Port of Stockton
Building 315 Alteration- Phase 2

315 Fyffe Ave.
Stockton, CA 95203

APN: 162-03-007

ABBREVIATIONS

@	AT
A.F.F.	ABOVE FINISH FLOOR
ABV.	ABOVE
ADJ.	ADJUSTABLE
ALT.	ALTERNATE
ALUM.	ALUMINUM
APPL.	APPLICABLE
APPROX.	APPROXIMATE
B.O.	BOTTOM OF
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BLW.	BELOW
BTWN.	BETWEEN
C.I.	CAST IRON
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT
C.L.	CENTER LINE
CBC	CALIFORNIA BUILDING CODE
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
COMP.	COMPACTED
CONC.	CONCRETE
CONT.	CONTINUOUS
D.F.	DOUGLAS FIR / DRINKING FOUNTAIN
D.S.	DOWNSPOUT
DBL.	DOUBLE
DIA.	DIAMETER
DN.	DOWN
DWG.	DRAWING
E.I.F.S.	EXTERIOR INSULATION & FINISH SYSTEM
E.J.	EXPANSION JOINT
E.W.	EACH WAY
EA.	EACH
ELEV.	ELEVATION
EQ.	EQUAL
EV	ELECTRIC VEHICLE
EXIST. / (E)	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.G.	FIBERGLASS / FINISH GRADE
F.H.	FIRE HYDRANT
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUD
F.R.P.	FIBER REINFORCED POLYMER
F.S.	FIRE SPRINKLERS
F.S.D.	FIRE SEPARATION DISTANCE
FIN.	FINISH
FLR.	FLOOR
FT.	FOOT / FEET
FTG.	FOOTING
G.B.	GRADE BREAK
G.I.	GALVANIZED IRON
G.L.B.	GLUE LAMINATED BEAM
GA.	GAUGE
GALV.	GALVANIZED
GD.	GRADE
GYP. BD.	GYPSUM BOARD
H.M.	HOLLOW METAL
HD.	HEAD
HDR.	HEADER
HDWR.	HARDWARE
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
I.D.	IDENTIFICATION
I.S.A.	INTERNATIONAL SYMBOL OF ACCESSIBILITY
INSUL.	INSULATION
INT.	INTERIOR
JB.	JAMB
JT.	JOINT
K.D.	KNOCK - DOWN
LAV.	LAVATORY
LTWT.	LIGHT WEIGHT
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM / MINUTE
MTD.	MOUNTED
MTL.	METAL
(N)	NEW
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
N/A	NOT APPLICABLE
NO. / #	NUMBER
O.C.	ON CENTER
OPP.	OPPOSITE HAND
ov/	OVER
OZ.	OUNCE
P.F.	PREFINISHED
P.O.C.	POINT OF CONNECTION
P.T.	PRESSURE TREATED
PL.	PLATE
PLAM.	PLASTIC LAMINATE
PROP.	PROPERTY
PSI	POUNDS PER SQUARE INCH
PW	PLYWOOD
R.W.L.	RAIN WATER LEADER
RDWD.	REDWOOD
REF.	REFER TO
REINF.	REINFORCED
REQ'D.	REQUIRED
RM.	ROOM
S.C.	SOLID CORE
S.D.	STORM DRAIN
S.F.	SQUARE FOOTAGE / STOREFRONT
S.M.	SHEET METAL
S.M.S.	SHEET METAL SCREW
S.P.	SINGLE PLY
S.S.	SANITARY SEWER LINE / STANDING SEAM / STAINLESS STEEL
SCH.	SCHEDULE
SDST	SELF-DRILLING SELF-TAPPING
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
SUSP.	SUSPENDED
T & B	TOP & BOTTOM
T & G	TONGUE & GROOVE
T.J.I.	TRUS JOIST I-JOIST
T.O.	TOP OF
T.S.	TUBE STEEL
TEMP	TEMPORARY
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.B.	VAPOR BARRIER
V.I.F.	VERIFY IN FIELD
V.T.R.	VENT THROUGH ROOF
VERT.	VERTICAL
W.C.	WATER CLOSET
W.H.	WATER HEATER
W.I.	WROUGHT IRON
W.W.F.	WOVEN WIRE FABRIC
w/	WITH
w/o	WITHOUT
WD.	WOOD

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PROJECT CONTACTS

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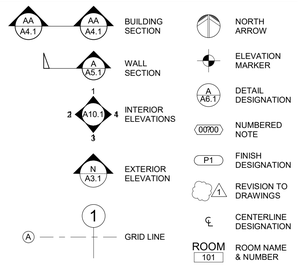
SYMBOLS



PROJECT DATA

PROJECT DESCRIPTION	ALTERATION OF (E) BUILDING 315 TO BE USED AS PORT OF STOCKTON ADMINISTRATION OFFICES BUILDING

	YES	NO
ALTERATION TO EXISTING BUILDING	X	
ADDITION TO EXISTING BUILDING		X
CHANGE OF USE		X
EXISTING FIRE SPRINKLERS		X

TYPE OF CONSTRUCTION	~~III-A~~ ~~ONE HOUR RATED per originally approved plans~~ 2
OCCUPANCY GROUP	B (PRIMARY) , A3 (ACCESSORY)
BUILDING HEIGHT	27'- 0" (E) UNCHANGED
NUMBER OF STORIES	(E), UNCHANGED - 1 STORY
BUILDING AREA	(E), UNCHANGED. 33,830 S.F.
AREA OF WORK	23,415 S.F.
TOTAL BUILDING OCCUPANCY	570

SPECIAL INSPECTIONS

1. REFER TO STRUCTURAL DRAWINGS FOR REQUIRED STRUCTURAL SPECIAL INSPECTIONS.

PROJECT INFORMATION

PROJECT DESCRIPTION - PHASE II

ALTERATION OF (E) BUILDING 315 TO BE USED AS PORT OF STOCKTON ADMINISTRATION OFFICES BUILDING UNDER 2 PHASES.
PHASE I - COMPLETED - PERMIT # BP24-09888
PHASE II - INCLUDES:
ALTERATION TO EXISTING OFFICES, RESTROOMS, AND BREAKROOM AS WELL AS PROVIDE ACCESSIBLE PARKING STALLS IN COMPLIANCE WITH ACCESSIBILITY REQUIREMENTS.

APPLICABLE CODES

ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST ADOPTED AND EFFECTIVE EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), AS APPLICABLE:

PART 1	CALIFORNIA ADMINISTRATIVE CODE
PART 2	2022 CALIFORNIA BUILDING CODE
PART 3	2022 CALIFORNIA ELECTRICAL CODE
PART 4	2022 CALIFORNIA MECHANICAL CODE
PART 5	2022 CALIFORNIA PLUMBING CODE
PART 6	2022 CALIFORNIA ENERGY CODE
PART 9	2022 CALIFORNIA FIRE CODE
PART 11	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

VICINITY MAP

PROJECT LOCATION

ADDRESS:	315 Fyffe Ave. Stockton CA 95203
APN:	162-03-007
ZONING:	CITY
LOT AREA:	1372.42 ACERS

GENERAL NOTES

1. ASBESTOS CONTAINING MATERIALS MAY BE PRESENT ON SITE OR IN THE EXISTING BUILDING CONSTRUCTION. IF SUSPECT MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH ADDITIONAL WORK. THE CONTRACTOR SHALL IMMEDIATELY POST NOTICES AND TAKE THE PRECAUTIONS NECESSARY TO ENSURE THE HEALTH AND SAFETY OF ALL WORKERS, THE STAFF AND THE PUBLIC.

DEFERRED APPROVALS

NOTE:

DEFERRED PERMITS: FIRE ALARM SYSTEM ALTERATIONS

BID ALTERNATES

4 **ADDITIVE BID ALTERNATE NO 1:**
REPLACE (E) AC UNITS (AC-1, AC-3, AC4.1, AC-4.2, AC-4.3, & AC-5) AND INSTALL (N) AC UNITS.
REFERENCE SHEETS DM3.1 & M3.1

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Port of Stockton
Building 315 Alteration - Phase (2)
315 Fyffe Ave.
Stockton, CA 95203

WMB Project No. 19-095

NOT FOR CONSTRUCTION

LICENSED ARCHITECT — JAMES MELANIE VIEUX — No. C-31824 — STATE OF CALIFORNIA

PUBLISH HISTORY:

No.	DATE	PURPOSE
	10.08.25	INITIAL SUBMITTAL
1	10.29.25	COORDINATION
2	12.12.25	PLAN CHECK #1
3	02.12.26	PLAN CHECK #2
4	08.31.26	BID SET

TITLE SHEET

T1.1

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PHASES FLOOR PLAN

1/8" = 1'-0"

PHASING LEGEND

PHASE 1 - DONE UNDER PREVIOUS PERMIT
INCLUDE:
- ±5,150 SF. ALTERATION AREA
- TWO SINGLE USER RESTROOM

PHASE 2 - AREA OF WORK - SUBMITTED PERMIT
INCLUDE:
- ± 23,415 SF. ALTERATION OFFICES AREA
- UPGRADED MEN AND WOMEN RESTROOMS
- ACCESSIBLE PARKING w/ ACCESSIBLE PATH OF TRAVEL

(E) NO WORK

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4	08.31.26	BID SET

PHASES FLOOR PLAN

T1.2

[redacted]

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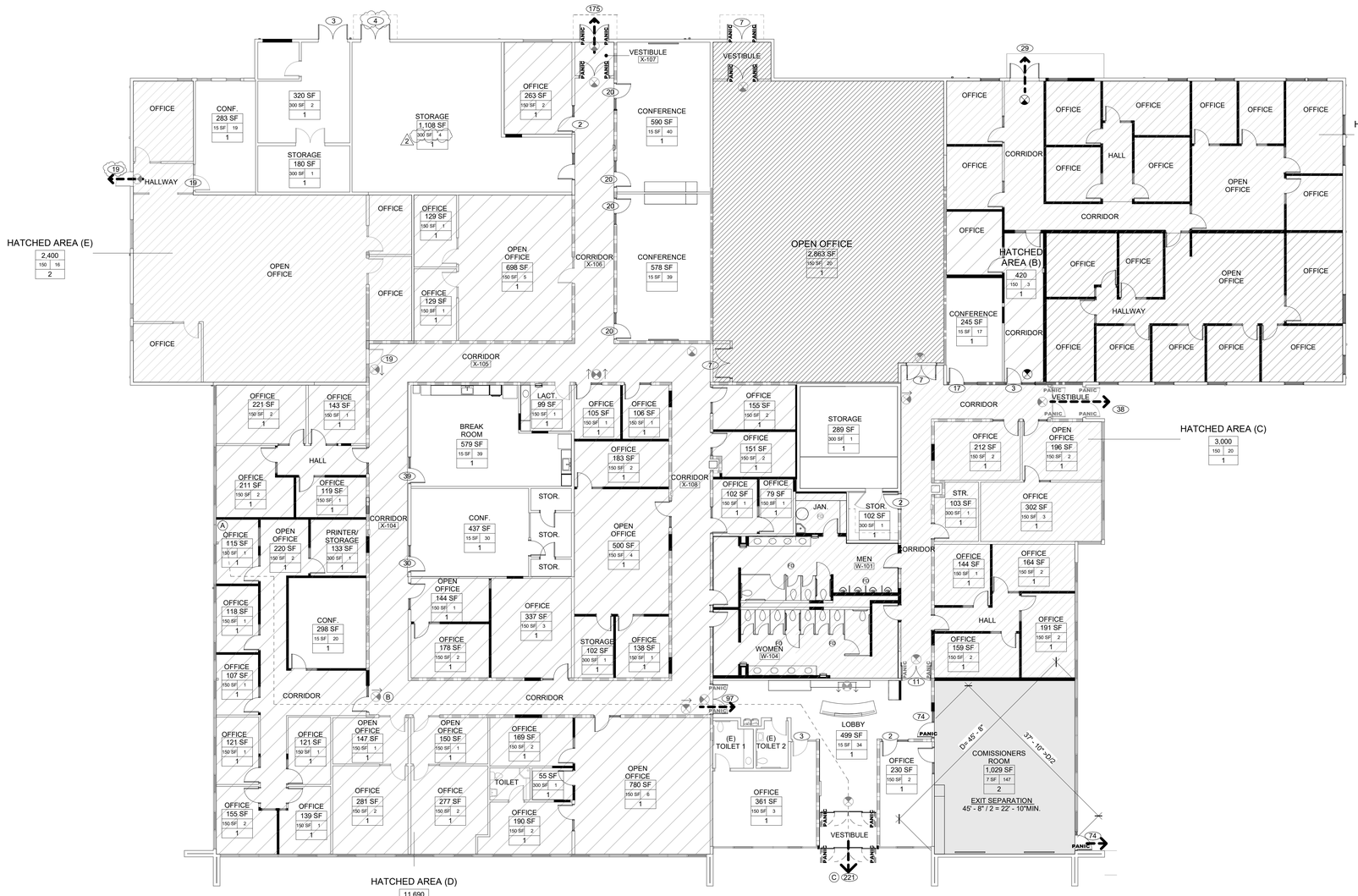
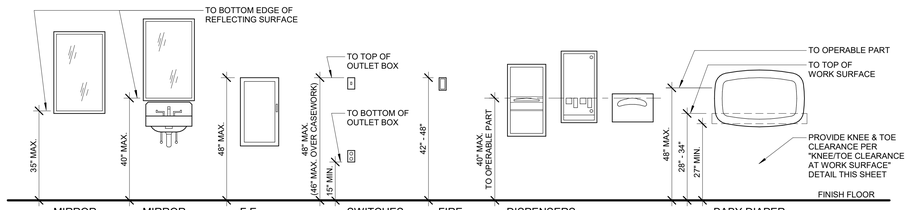
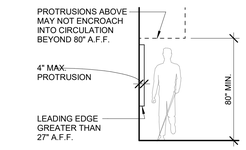
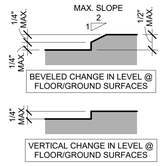

HATCHED AREA (E)
2,400
150 | 16
2
HALLWAY
OFFICE
CONF.
283 SF
15 SF | 19
1
320 SF
300 SF | 2
1
STORAGE
180 SF
300 SF | 1
1
STORAGE
1,108 SF
300 SF | 4
1
OFFICE
263 SF
150 SF | 2
1
VESTIBULE
X-107
CONFERENCE
590 SF
15 SF | 40
1
OFFICE
129 SF
150 SF | 1
1
OPEN OFFICE
698 SF
150 SF | 5
1
CORRIDOR
X-106
CONFERENCE
578 SF
15 SF | 39
OPEN OFFICE
2,863 SF
100 SF | 29
1
CORRIDOR
X-105
HATCHED AREA (A)
4,344
150 | 29
1
HATCHED AREA (B)
420
150 | 3
1
CONFERENCE
245 SF
15 SF | 17
1
HALLWAY
OPEN OFFICE
CORRIDOR
X-104
CORRIDOR
X-108
BREAK ROOM
579 SF
15 SF | 39
1
LACT.
99 SF
150 SF | 1
1
CONF.
437 SF
15 SF | 30
1
STOR.
STOR.
STOR.
PRINTER/ STORAGE
133 SF
300 SF | 1
1
CONF.
298 SF
15 SF | 20
1
HALL
OPEN OFFICE
220 SF
150 SF | 2
1
OPEN OFFICE
500 SF
150 SF | 4
1
OPEN OFFICE
144 SF
150 SF | 1
1
OPEN OFFICE
147 SF
150 SF | 1
1
OPEN OFFICE
150 SF
150 SF | 1
1
OPEN OFFICE
780 SF
150 SF | 6
1
OPEN OFFICE
281 SF
150 SF | 2
1
OPEN OFFICE
277 SF
150 SF | 2
1
TOILET
55 SF
300 SF | 1
1
HATCHED AREA (C)
3,000
150 | 20
1
HATCHED AREA (D)
11,690
100 | 78
2
JAN.
STOR.
102 SF
300 SF | 1
1
MEN
W-101
WOMEN
W-104
LOBBY
499 SF
15 SF | 34
1
(E) TOILET 1
(E) TOILET 2
COMMISSIONERS ROOM
1,029 SF
7 SF | 147
2
EXIT SEPARATION:
45' - 8" / 2 = 22' - 10"MIN.
D= 45' - 8"
37' - 10" = D/2
VESTIBULE
OFFICE
230 SF
150 SF | 2
1
OFFICE
361 SF
150 SF | 3
1
OFFICE
155 SF
150 SF | 2
1
OFFICE
139 SF
150 SF | 1
1
OFFICE
190 SF
150 SF | 2
1
OFFICE
169 SF
150 SF | 2
1
OFFICE
102 SF
150 SF | 1
1
OFFICE
79 SF
150 SF | 1
1
OFFICE
155 SF
150 SF | 2
1
OFFICE
151 SF
150 SF | 2
1
OFFICE
105 SF
150 SF | 1
1
OFFICE
106 SF
150 SF | 1
1
OFFICE
183 SF
150 SF | 2
1
OFFICE
212 SF
150 SF | 2
1
OPEN OFFICE
196 SF
150 SF | 2
1
STR.
103 SF
300 SF | 1
1
OFFICE
302 SF
150 SF | 3
1
OFFICE
144 SF
150 SF | 1
1
OFFICE
164 SF
150 SF | 2
1
OFFICE
159 SF
150 SF | 2
1
OFFICE
191 SF
150 SF | 2
1
OFFICE
221 SF
150 SF | 2
1
OFFICE
143 SF
150 SF | 1
1
OFFICE
211 SF
150 SF | 2
1
OFFICE
119 SF
150 SF | 1
1
OFFICE
115 SF
150 SF | 1
1
OFFICE
118 SF
150 SF | 1
1
OFFICE
107 SF
150 SF | 1
1
OFFICE
121 SF
150 SF | 1
1
OFFICE
121 SF
150 SF | 1
1
STORAGE
102 SF
300 SF | 1
1
STORAGE
289 SF
300 SF | 1
1
OPEN OFFICE
2,863 SF
100 SF | 29
1
OPEN OFFICE
698 SF
150 SF | 5
1
OPEN OFFICE
780 SF
150 SF | 6
1
OPEN OFFICE
500 SF
150 SF | 4
1
OPEN OFFICE
578 SF
15 SF | 39
OPEN OFFICE
1,029 SF
7 SF | 147
2
OPEN OFFICE
2,863 SF
100 SF | 29
1
OPEN OFFICE
2,863 SF
100 SF | 29
1
OPEN OFFICE
2,863 SF
100 SF | 29
1



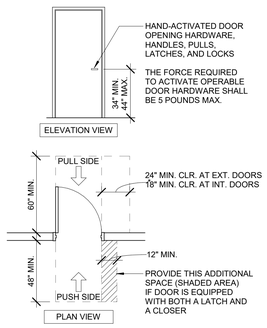
K MOUNTING HEIGHTS
1/2" = 1'-0"



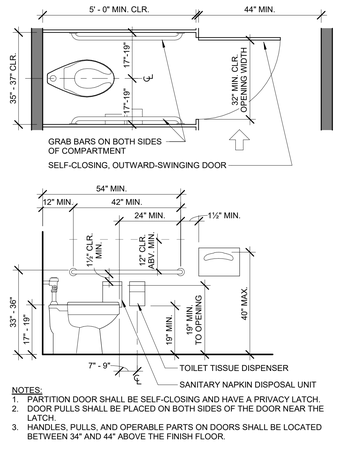
Q PROTRUSION LIMITS
1/4" = 1'-0"



R VERTICAL OFFSETS
6" = 1'-0"

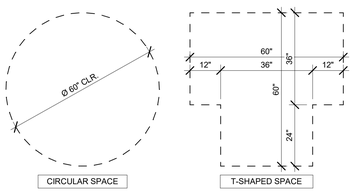


N ACCESSIBLE DOOR
1/4" = 1'-0"

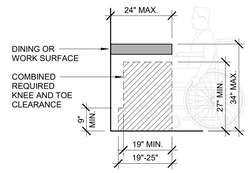


NOTES:
1. PARTITION DOOR SHALL BE SELF-CLOSING AND HAVE A PRIVACY LATCH.
2. DOOR PULLS SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.
3. HANDLES, PULLS, AND OPERABLE PARTS ON DOORS SHALL BE LOCATED BETWEEN 34" AND 44" ABOVE THE FINISH FLOOR.

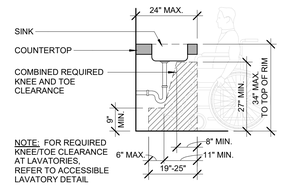
L ACC. R.R. STALL - AMBULATORY
1/2" = 1'-0"



S TURNING SPACE
1/2" = 1'-0"

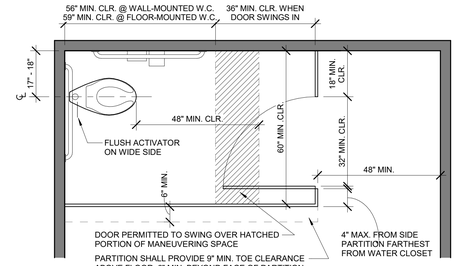


P KNEE-TOE CLR. @ WORK SURFACE
1/2" = 1'-0"



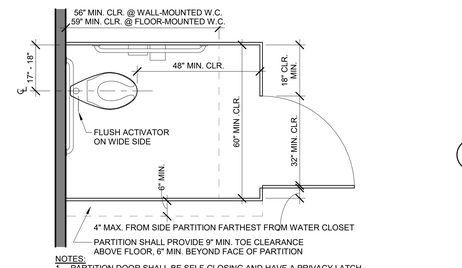
NOTE: FOR REQUIRED KNEE/TOE CLEARANCE AT LAVATORIES, REFER TO ACCESSIBLE LAVATORY DETAIL

M KNEE-TOE CLEARANCE @ SINK
1/2" = 1'-0"



NOTES:
1. PARTITION DOOR SHALL BE SELF-CLOSING AND HAVE A PRIVACY LATCH.
2. DOOR PULLS SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.
3. HANDLES, PULLS, AND OPERABLE PARTS ON DOORS SHALL BE LOCATED BETWEEN 34" AND 44" ABOVE THE FINISH FLOOR.

F ACC. R.R. STALL - END DOOR INWARD
1/2" = 1'-0"



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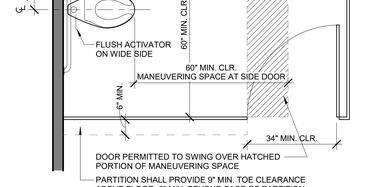
G ACC. R.R. STALL - END DOOR OUTWARD
1/2" = 1'-0"



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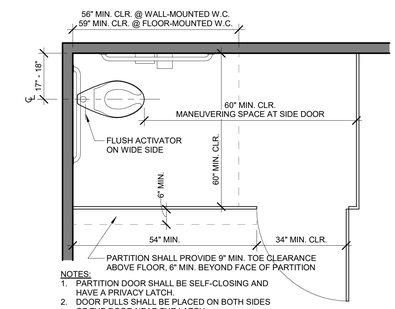
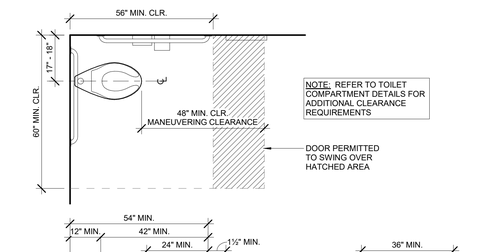
H ACC. R.R. STALL - SIDE DOOR INWARD
1/2" = 1'-0"

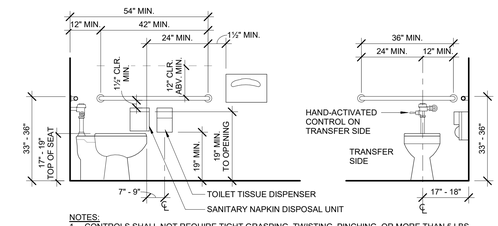


NOTES:
1. PARTITION DOOR SHALL BE SELF-CLOSING AND HAVE A PRIVACY LATCH.
2. DOOR PULLS SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.
3. HANDLES, PULLS, AND OPERABLE PARTS ON DOORS SHALL BE LOCATED BETWEEN 34" AND 44" ABOVE THE FINISH FLOOR.

J ACC. R.R. STALL - SIDE DOOR OUTWARD
1/2" = 1'-0"

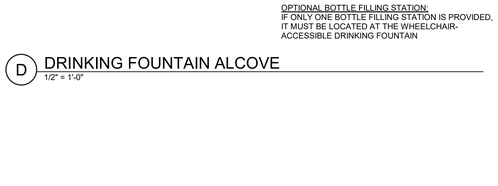


NOTE: REFER TO TOILET COMPARTMENT DETAILS FOR ADDITIONAL CLEARANCE REQUIREMENTS



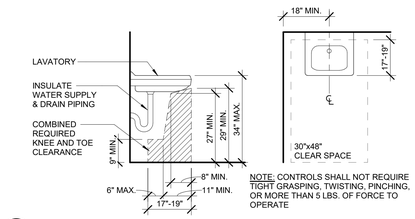
NOTES:
1. CONTROLS SHALL NOT REQUIRE TIGHT GRASPING, TWISTING, PINCHING, OR MORE THAN 5 LBS. OF FORCE TO OPERATE.
2. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE & CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

A ACCESSIBLE WATER CLOSET
1/2" = 1'-0"



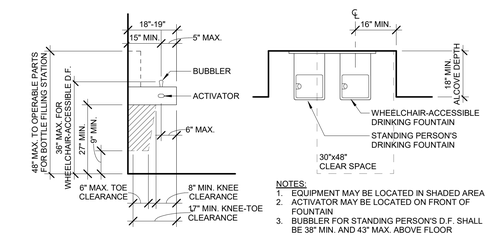
NOTE: CONTROLS SHALL NOT REQUIRE TIGHT GRASPING, TWISTING, PINCHING, OR MORE THAN 5 LBS. OF FORCE TO OPERATE

B ACCESSIBLE URINAL
1/2" = 1'-0"



NOTE: CONTROLS SHALL NOT REQUIRE TIGHT GRASPING, TWISTING, PINCHING, OR MORE THAN 5 LBS. OF FORCE TO OPERATE

C ACCESSIBLE LAVATORY
1/2" = 1'-0"



NOTES:
1. EQUIPMENT MAY BE LOCATED IN SHADED AREA
2. ACTIVATOR MAY BE LOCATED ON FRONT OF FOUNTAIN
3. BUBBLER FOR STANDING PERSON'S D.F. SHALL BE 38" MIN. AND 43" MAX. ABOVE FLOOR

OPTIONAL BOTTLE FILLING STATION:
IF ONLY ONE BOTTLE FILLING STATION IS PROVIDED, IT MUST BE LOCATED AT THE WHEELCHAIR-ACCESSIBLE DRINKING FOUNTAIN

D DRINKING FOUNTAIN ALCOVE
1/2" = 1'-0"

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WMB Project No. 19-095

NOT FOR CONSTRUCTION

PUBLISH HISTORY:

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1	10.29.25	COORDINATION
2	12.12.25	PLAN CHECK #1
3	02.12.26	PLAN CHECK #2
4	08.31.26	BID SET

BUILDING ACCESSIBILITY DETAILS

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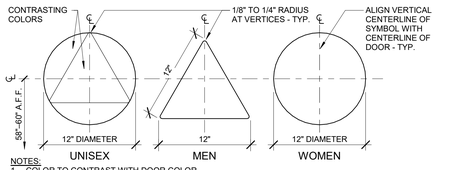
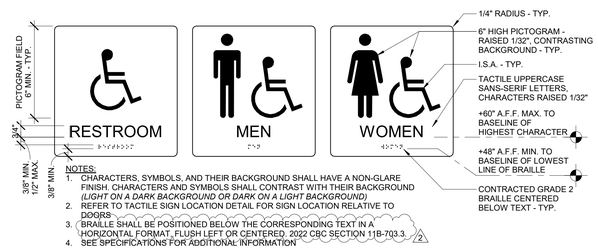


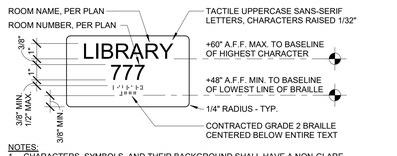
NOTES:
1. COLOR TO CONTRAST WITH DOOR COLOR
2. NO PICTOGRAM REQUIRED
3. NO BRAILLE OR TEXT ON THIS SIGN
4. EDGES OF GEOMETRIC SYMBOLS SHALL BE EASED OR ROUNDED AT 1/16" MIN. OR CHAMFERED AT 1/8" MAX.

E RESTROOM GEOMETRIC DOOR SYMBOLS
1 1/2" = 1'-0"



NOTES:
1. CHARACTERS, SYMBOLS, AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND *(LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND)*
2. REFER TO TACTILE SIGN LOCATION DETAIL FOR SIGN LOCATION RELATIVE TO DOORS
3. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. 2022 CBC SECTION 11B-703.3.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

F RESTROOM IDENTIFICATION WALL SIGNAGE
3" = 1'-0"



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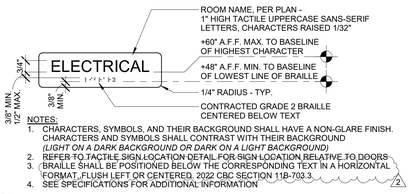
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

G ROOM IDENTIFICATION SIGN
3" = 1'-0"



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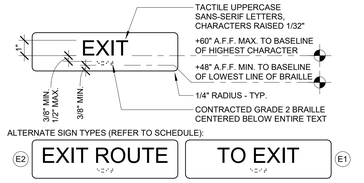
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

H SECONDARY ROOM IDENTIFICATION SIGN
3" = 1'-0"



NOTES:
1. CHARACTERS, SYMBOLS, AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND *(LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND)*
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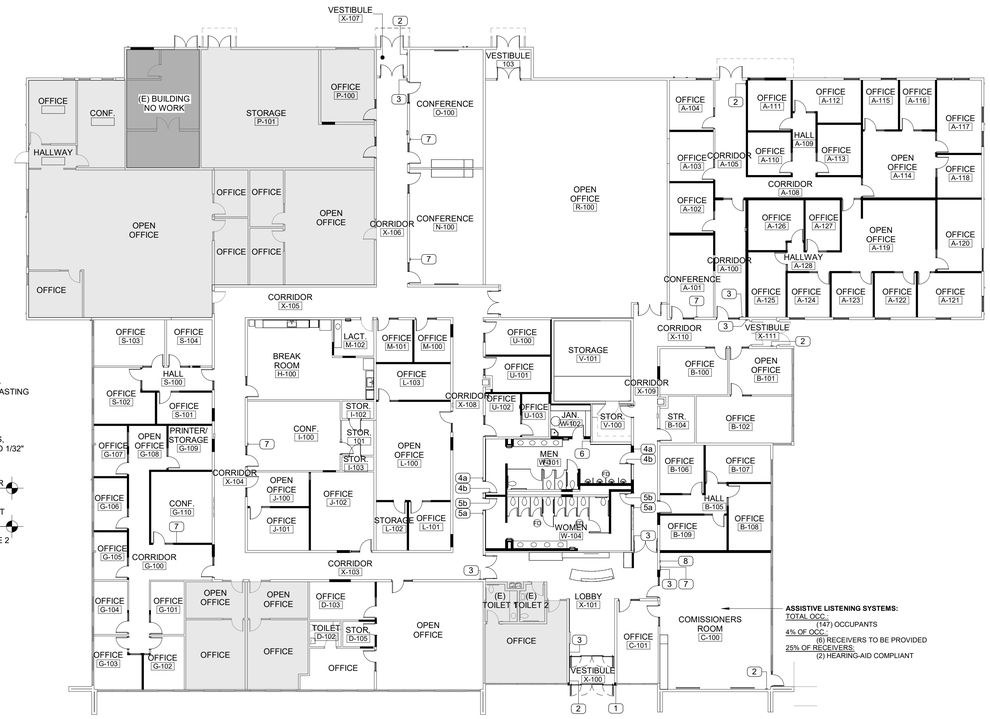
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

J TACTILE EXIT SIGN
3" = 1'-0"

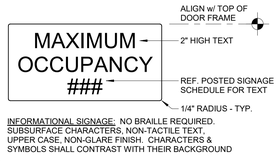


POSTED SIGNAGE PLAN
1/16" = 1'-0"

POSTED SIGNAGE SCHEDULE

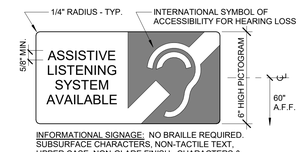
NO.	SIGN TYPE	TEXT	DETAIL
1	ACCESSIBLE BUILDING ENTRANCE w/ ISA	-	A
2	EXIT - EXTERIOR DOOR	EXIT	J
3	EXIT - INTERIOR DOOR	EXIT ROUTE	J
4a	RESTROOM ID w/ ISA - MEN	MEN	F
4b	RESTROOM DOOR SYMBOL - MEN	-	E
5a	RESTROOM ID w/ ISA - WOMEN	WOMEN	F
5b	RESTROOM DOOR SYMBOL - WOMEN		E
6	ROOM ID - SECONDARY	PER OWNER PROVIDED ROOM NAME	H
7	ASSISTIVE LISTENING SYSTEM AVAILABILITY	(REFER TO DETAIL)	D
8	MAXIMUM OCCUPANCY	MAXIMUM OCCUPANCY [####]	C

NOTE: DETAIL REFERENCES REFER TO DETAILS THIS SHEET U.O.N.



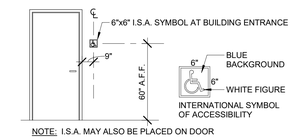
INFORMATIONAL SIGNAGE: NO BRAILLE REQUIRED. SUBSURFACE CHARACTERS, NON-TACTILE TEXT, UPPER CASE, NON-GLARE FINISH. CHARACTERS & SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND

C MAX OCCUPANCY SIGN
1 1/2" = 1'-0"



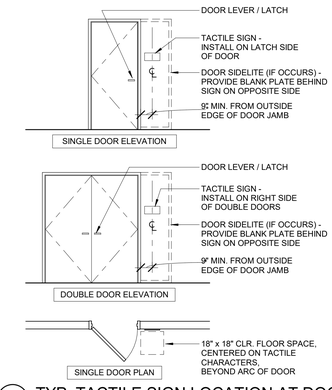
INFORMATIONAL SIGNAGE: NO BRAILLE REQUIRED. SUBSURFACE CHARACTERS, NON-TACTILE TEXT, UPPER CASE, NON-GLARE FINISH. CHARACTERS & SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND

D ASSISTIVE LISTENING SYSTEM SIGN
3" = 1'-0"



NOTE: I.S.A. MAY ALSO BE PLACED ON DOOR

A ACCESSIBLE ENTRANCE / ISA
1/4" = 1'-0"



B TYP. TACTILE SIGN LOCATION AT DOOR
1/4" = 1'-0"

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POSTED SIGNAGE PLAN AND DETAILS

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CIVIL IMPROVEMENT PLANS FOR
PORT OF STOCKTON
BUILDING 315 ALTERATION - PHASE 2
STOCKTON, CALIFORNIA

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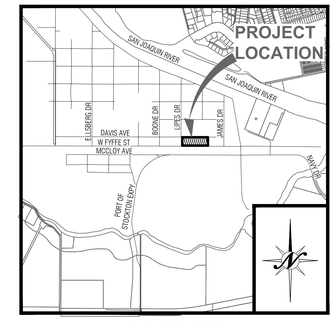
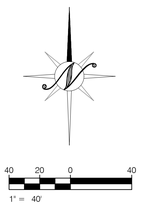


VICINITY MAP

NTS



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Stockton, CA 95203

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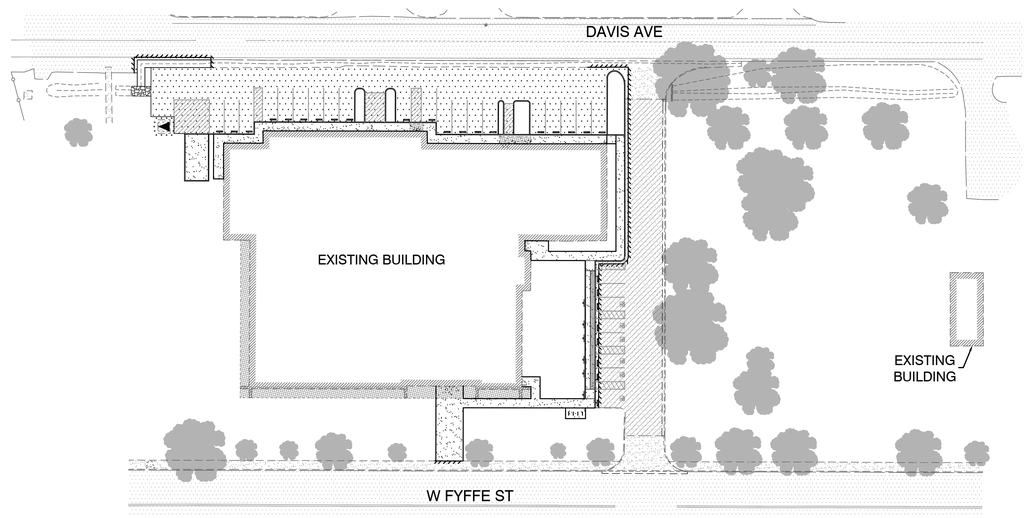
LEGEND

	EXISTING	PROPOSED
BOUNDARY LINE		
CENTERLINE		
RIGHT-OF-WAY		
PARCEL LINE		
MONUMENT		
SAWCUT	N/A	
CURB, GUTTER AND SIDEWALK		
EDGE OF PAVEMENT		
CONCRETE VALLEY GUTTER		
TRENCH DRAIN		
STORM DRAIN (MAIN)	SD 6'x12'SD	12"SD
FORCE MAIN	SD 6"48"FM	48"FD
DRAINAGE SWALE		
STORM DRAIN MAINTENANCE HOLE	SD	SD
CURB INLET		
DRAIN INLET		
DRAIN INLET ON MAINTENANCE HOLE		
STORM DRAINAGE FILTER	N/A	SD
WATER (MAIN)	6"8"W	8"W
WATER (SERVICE)	6"8"W	8"W
WATER VALVE	WV	WV
WATER BLOW OFF VALVE	BO	BO
BACK FLOW PREVENTER	BFP	BFP
DOUBLE CHECK DETECTOR ASSEMBLY	DCDA	DCDA
POST INDICATOR VALVE (SINGLE)	PIV	PIV
FIRE DEPARTMENT CONNECTION		
FIRE HYDRANT		
WATER METER	WM	WM
SERVICE STUB		
CLEANOUT		
SEWER MAINTENANCE HOLE	S	S
GREASE TRAP	G	G
SEWER (MAIN)	SS 6'12"SS	12"SS
JOINT TRENCH (APPROX LOCATION)	JT	N/A
TRANSFORMER (APPROX LOCATION)	T	T
OVER HEAD ELECTRICAL	OHE	N/A
FIBER OPTIC	FO	N/A
SERVICE POLE	SP	N/A
JOINT POLE	JP	N/A
JOINT POLE WITH LIGHT	JP	N/A
POWER POLE	PP	N/A
TELEPHONE POLE	TP	N/A
GUY		N/A
ELECTRICAL MANHOLE	E	N/A
ELECTROLIER		100W 150W 200W
UTILITY BOX		N/A
GAS LINE	G	N/A
GAS VALVE	GV	N/A
PAD ELEVATION	N/A	N/A
FINISH FLOOR ELEVATION (PROPOSED)	N/A	FF=100.00
TOP OF CURB ELEVATION	8.66 TC	8.66 TC
ORIGINAL GROUND	8.66 EG	N/A
DIRECTION OF FLOW	6.1%	6.1%
CONTOURS	32	32
WALL (SEE LABEL FOR TYPE)		
FENCE (CHAINLINK OR VINYL)		
FENCE (WIRE OR HOGWIRE)		
FENCE (WOOD OR WROUGHT IRON)		
FENCE (SPLIT RAIL)		
TREE OR SHRUB		N/A
TREE STUMP		N/A
IRRIGATION LINE	I 6'48"IRR	8"IRR
IRRIGATION VALVE	ICV	ICV
IRRIGATION PRESSURE MANHOLE/VENT	IPV	IPV
SIGN		
KEYNOTE SYMBOL	1	1



ABBREVIATIONS

±	PLUS OR MINUS (NOT EXACT)	DIP	DUCTILE IRON PIPE	JT	JOINT TRENCH	RET	RETURN
@	AT	(DOM)	DOMESTIC	MAX	MAXIMUM	RV	RESISTANCE VALUE
AB	AGGREGATE BASE	DR	DRIVE	MH	MAINTENANCE HOLE	RP	REDUCED PRESSURE
AC	ASPHALT CONCRETE	DW	DRIVEWAY	MIN	MINIMUM	BP	BACKFLOW PREVENTER
ACC	ACCESSIBLE	E	EAST	M.I.D	MODESTO IRRIGATION DISTRICT	S	SLOPE OR SOUTH
ADTT	AVERAGE DAILY TRUCK TRAFFIC	EC	END OF CURVE	N	NORTH	SD	STORM DRAIN
AG	ATRIUM GRATE	ELC	ELECTROLIER	NDS	NDS INC. (MANUFACTURER)	SG	SUB-GRADE
ALT	ALTERNATE	ELEV	ELEVATION	NIC	NOT INCLUDED	SHT	SHEET
APN	ASSESSORS PARCEL NUMBER	EP	EDGE OF PAVEMENT	NSE	NORTHSTAR ENGINEERING	SIM	SIMILAR
ASR	AUTOMATIC SPRINKLER RISER	ER	END OF RETURN	NTS	NOT TO SCALE	SJC	SAN JOAQUIN COUNTY
AVE	AVENUE	ESMT OR EASE	EASEMENT	OC	ON CENTER	SNS	STREET NAME SIGN
BC	BEGIN CURVE	EX OR EXIST	EXISTING	OF	OFFSET	ST	STREET
BDRY	BOUNDARY	FDC	FIRE DEPARTMENT CONNECTION	OG	ORIGINAL GROUND / GRADE	STL	STEEL
BFP	BACK FLOW PREVENTOR	FES	FLARED END SECTION	OHE	OVER HEAD ELECTRIC	STA	STATION
BK	BOOK	FF	FINISH FLOOR	P OR PAV	PAVEMENT	STD	STANDARD
BM	BENCH MARK	FG	FINISH GRADE	PCC	POINT OF COMPOUND CURVE OR PORTLAND CEMENT CONCRETE	S/W OR SW	SIDEWALK
BW	BACK OF WALK	FH	FIRE HYDRANT			SS	SANITARY SEWER
BSL	BUILDING SETBACK LINE	FL	FLOW LINE	PG	PAGE	TC	TOP OF CURB
BVC	BEGIN VERTICAL CURVE	FM	FORCE MAIN	PG&E	PACIFIC GAS AND ELECTRIC	TD	TRENCH DRAIN
C&G OR C.G.	CURB AND GUTTER	FS	FIRE SERVICE	PIV	PRESSURE INDICATOR VALVE	TDC	TOP OF DRIVE OVER CURB
CB	CATCH BASIN	FSR	FIRE SPRINKLER RISER	PL	PROPERTY LINE	TEMP	TEMPORARY
CDS	CONTINUOUS DEFLECTION SEPARATORS	GB	GRADE BREAK	PM	PARCEL MAP	TG	TOP OF GRATE
		GR	GRATE, GRADE, OR GROUND	POC	POINT OF CONNECTION	THRU	THROUGH
CIP	CAST IRON PIPE	GS	GROUND SHOT ELEVATION	PP	POWER POLE	TI	TRAFFIC INDEX
℄ OR CL	CENTER LINE	GS@W	GROUND SHOT AT WALL	PRC	POINT OF REVERSE CURVATURE	TW	TOP OF WALL
CMP	CORRUGATED METAL PIPE	GV	GATE VALVE	PROF	PROFILE	TPE	TREE PLANTING EASEMENT
CO	CLEAN OUT	HORIZ	HORIZONTAL	PT	POINT	TVC	TOP OF VERTICAL CURB
COMP	COMPACTION	HP	HIGH POINT	PTDF	PRESSURE TREATED DOUGLAS FIR	TYP	TYPICAL
CONC OR CC	CONCRETE	HPS	HIGH PRESSURE SODIUM	PUE	PUBLIC UTILITY EASEMENT	UON	UNLESS OTHERWISE NOTED
COS	CITY OF STOCKTON	HT	HEIGHT	PVC	POLYVINYL CHLORIDE PIPE	VERT	VERTICAL
CR	CURB RETURN	HWY	HIGHWAY	RW	RECLAIMED WATER	VCP	VITRIFIED CLAY PIPE
CT.	COURT	ID	INSIDE DIAMETER	R/W	RIGHT-OF-WAY	W	WATER OR WEST
CV	CHECK VALVE	INV	INVERT	R	RADIUS	WM	WATER METER
DDCV	DOUBLE DETECTOR CHECK VALVE	IRR	IRRIGATION	RC	RELATIVE COMPACTION	WS	WATER SERVICE
DI	DRAIN INLET	LF	LINEAL FEET OR LINEAR FEET	RCP	REINFORCED CONCRETE PIPE	WY	WAY
DIA	DIAMETER	LN	LANE	R.D.	RELATIVE DENSITY	W/	WITH
		LP	LOW POINT	RD	ROAD	WWF	WELDED WIRE FABRIC

PREPARED FOR

DEVELOPER:
PORT OF STOCKTON
2201 WEST WASHINGTON STREET
STOCKTON, CA 95203
T: (209) 946-0246
CONTACT:
RICARDO NAVARRO

PROJECT LOCATION

SITE ADDRESS
315 W FYFFE ST
STOCKTON, CA 95203

CONTACTS

A. REGULATORY AGENCY:	PORT OF STOCKTON 2201 WEST WASHINGTON STREET STOCKTON, CA 95203 T: (209) 946-0246
	CITY OF STOCKTON 345 N. EL DORADO STREET STOCKTON, CA 95206 T: (209) 937-8444
B. DEVELOPER:	PORT OF STOCKTON 2201 WEST WASHINGTON STREET STOCKTON, CA 95203 T: (209) 946-0246 CONTACT: RICARDO NAVARRO
C. PROJECT LOCATION:	315 W FYFFE ST STOCKTON, CA 95203 SAN JOAQUIN COUNTY, CA
D. ENGINEER:	NORTHSTAR ENGINEERING GROUP, INC. 620 12TH STREET MODESTO, CA. 95354 T: (209) 524-3525 F: (209) 524-3526 CONTACT: JOHN ELLIS
E. ARCHITECT:	WMB ARCHITECTS 5757 PACIFIC AVENUE #226 STOCKTON, CA 95207 T: (209) 944-9110 CONTACT: MELANIE VIEUX
F. ELECTRICAL ENGINEER:	HCS ENGINEERING, INC. 4512 FEATHER RIVER DRIVE, SUITE F STOCKTON, CA 95219 T: (209) 478-8270 CONTACT: RICHARD C. SMITH

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COVER SHEET

C1.1

REGISTERED PROFESSIONAL ENGINEER RICHARD C. SMITH No. C35387 CIVIL STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

PUBLISH HISTORY:
△No. DATE PURPOSE
09.24.25 INITIAL SUBMITTAL

4 08.31.26 BID SET

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GENERAL NOTES

1. CONTRACTOR SHALL BE AWARE THAT THE FOLLOWING NOTES LISTED BELOW ARE NORTHSTAR ENGINEERING GROUP'S TYPICAL GENERAL NOTES AND SOME NOTES MAY NOT BE APPLICABLE TO THIS PLAN SET.

2. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FOLLOWING: CITY OF STOCKTON ("CITY") STANDARD SPECIFICATIONS AND THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE. WHERE THERE IS A CONFLICT BETWEEN THE PLANS AND THE CITY AND/OR CALIFORNIA BUILDING CODE STANDARDS, THE CITY AND/OR CALIFORNIA BUILDING CODE STANDARDS SHALL PREVAIL. ALL WORK SHALL BE SUBJECT TO THE INSPECTION OF THE CITY OF STOCKTON.

3. PRIOR TO ANY WORK BEING PERFORMED, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE REGULATORY AGENCIES FOR A PRE-CONSTRUCTION CONFERENCE. CONTRACTOR SHALL ALSO NOTIFY THE PROJECT CONTACTS LISTED ON THIS SHEET FORTY-EIGHT (48) HOURS IN ADVANCE OF SAID MEETING.

4. IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY NORTHSTAR ENGINEERING GROUP, INC., ("ENGINEER") IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS AND SPECIFICATIONS. IF THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.

5. IF NORTHSTAR ENGINEERING GROUP, INC. IS TO PERFORM ANY SURVEY STAKING, THEN CONSTRUCTION STAKING FOR GRADING, CURB, GUTTER, SIDEWALK, SANITARY SEWER, STORM DRAIN, AND WATER SHALL BE DONE UNDER THE DIRECTION OF THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SEVENTY-TWO (72) HOURS IN ADVANCE OF THIS NEED FOR STAKING. ANY STAKING REQUESTED BY THE CONTRACTOR OR HIS SUBCONTRACTORS THAT IS ABOVE AND BEYOND NORMAL STANDARD STAKING NEEDS AS OUTLINED IN THE CONTRACT, WILL BE SUBJECT TO AN EXTRA BACK CHARGE TO THE CONTRACTOR.

6. THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSE FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.

7. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

8. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY ENGINEER.

9. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN, OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT ISSUE OF "MANUAL OF TRAFFIC CONTROLS, WARNING SIGNS, LIGHTS, AND DEVICES FOR USE IN PERFORMANCE OF WORK UPON HIGHWAY" PUBLISHED BY THE STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY. CONTRACTOR SHALL COORDINATE WITH THE GOVERNING LOCAL AGENCY TO DETERMINE IF ANY CHANGES TO THE CLASSIFICATION OR OPERATION OF A ROADWAY ARE REQUIRED DUE TO THE IMPROVEMENTS SHOWN ON THESE PLANS (SUCH AS SPEED LIMITS, INTERSECTION TYPE, ETC.) AND SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY INTERIM TRAFFIC MANAGEMENT MEASURES REQUIRED BY THE GOVERNING AGENCY, INCLUDING TRANSITIONAL SIGNAGE AND STRIPING IN PREPARATION OF AND TO BE INSTALLED PRIOR TO COMPLETION AND ACCEPTANCE OF ULTIMATE SIGNAGE AND STRIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH IMPLEMENTING THESE MEASURES.

10. THE OFFICE OF THE CITY OF STOCKTON PUBLIC WORKS SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY WORK.

11. CABLE TV, ELECTRICAL, GAS, AND TELEPHONE UNDERGROUND WORK SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF THE CURB, GUTTER, SIDEWALK AND PAVING.

12. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF STOCKTON, DEPARTMENT OF PUBLIC WORKS OR ANY OTHER APPLICABLE AGENCY PRIOR TO COMMENCEMENT OF WORK WITHIN EXISTING CITY RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.

13. THE CITY OF STOCKTON OR ASSOCIATED UTILITY COMPANY AND RESIDENCES TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION OTHER THAN SPECIFIED ON THESE IMPROVEMENT PLANS AND A TWENTY-FOUR (24) HOUR NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION.

14. STREET SIGNS, TRAFFIC CONTROL SIGNS, AND PAVEMENT MARKINGS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT LOCATIONS ESTABLISHED BY THE ENGINEER.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING DAMAGED EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND REPLACEMENT.

16. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE REMOVAL OR RELOCATION OF ALL EXISTING UTILITIES WITH RESPECTIVE UTILITY COMPANIES.

17. ASPHALT CONCRETE SHALL BE PLACED ONLY WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50°F AND RISING.

18. DRAWING NUMBERS SHOWN ON THE PLANS REFER TO DRAWINGS CONTAINED IN THE CITY OF STOCKTON STANDARD SPECIFICATIONS.

19. ALL TRENCHES IN PAVED AREAS SHALL BE PAVED WITH TEMPORARY PAVING, OR COVERED WITH A STEEL PLATE OF APPROPRIATE SIZE AND STRENGTH, THE SAME DAY THE PAVEMENT CUT IS MADE.

20. WHENEVER PAVEMENT IS BROKEN OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS AND PLANS, THE PAVEMENT SHALL BE REPLACED, AFTER PROPER BACK FILLING, WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.

21. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATED, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) FORTY-EIGHT (48) HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 227-2600. THE CONTRACTOR SHALL RECORD THE U.S.A. ORDER NUMBER. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE DEVELOPMENT.

22. PAYMENT FOR PAVEMENT WILL BE MADE ONLY FOR AREAS SHOWN ON THE PLANS. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS AND PLANS, AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INDICATED IN THE CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.

23. EXCAVATIONS OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY. FOR TRENCHES 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH SECTION 5-1.02A OF THE CALTRANS STANDARDS, CHAPTER 9 OF THE STATE OF CALIFORNIA LABOR CODE, AND ANY LOCAL CODES OR ORDINANCES.

24. WE CALL YOUR ATTENTION TO TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONS SAFETY AND HEALTH ACT OF 1973 AS AMENDED WHICH STATES: (1) PRIOR TO OPENING AN EXCAVATION EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E. SEWER, WATER, FUEL, ELECTRICAL LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING, AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.

25. THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL MECHANICAL, ELECTRICAL AND INSTRUMENTATION EQUIPMENT, PIPING AND CONDUITS, STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR TO THE DEVELOPER AND APPROVAL AGENCY.

26. SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN STRICT CONFORMANCE WITH THE CITY OF STOCKTON STANDARDS AND SPECIFICATIONS.

27. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.

28. AFTER CONSTRUCTION OF ALL IMPROVEMENTS, THE CONTRACTOR SHALL SUBMIT ONE SET OF REPRODUCIBLE PLANS. FINAL INVERT ELEVATIONS FOR SEWER AND STORM DRAIN LINES THAT ARE TO BE EXTENDED FOR FUTURE CONSTRUCTION SHALL ALSO BE SHOWN ON THE "AS-BUILT" PLANS ALL AS PROVIDED BY THE CONTRACTOR.

29. THE CONTRACTOR SHALL NOTIFY NORTHSTAR ENGINEERING AT LEAST 48 HOURS PRIOR TO BACK FILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH THE CITY OF STOCKTON STANDARD SPECIFICATIONS.

30. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.

31. DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTOR'S EXPENSE TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF STOCKTON. CONTRACTOR SHALL OBTAIN A PERMIT FROM CAL WATER FOR USE OF WATER FROM FIRE HYDRANTS FOR CONSTRUCTION PURPOSES. THE PERMIT SHALL BE APPROVED BY THE CITY OF STOCKTON FIRE DEPARTMENT.

32. CONTRACTOR SHALL PROVIDE CITY WITH A CERTIFICATE SIGNED BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR STATING THAT ALL BUILDING PAD ELEVATIONS ARE IN ACCORDANCE WITH THE APPROVED GRADING PLAN.

33. UNLESS OTHERWISE STATED, ALL STATIONS INDICATED ON THE IMPROVEMENT PLANS ARE REFERENCED TO THE CENTERLINE OF THE STREET. ALL STATIONS OFF CENTER ARE PERPENDICULAR TO OR RADIALLY OPPOSITE CENTERLINE STATIONS, UNLESS OTHERWISE NOTED.

34. DRIVEWAYS ON STREETS TO BE LOCATED IN THE FIELD BY THE ENGINEER AT THE TIME OF CONSTRUCTION. DRIVEWAYS SHALL NOT COINCIDE WITH WHEELCHAIR RAMPS.

GENERAL NOTES (CONT)

35. IF THE PROJECT IS SUBJECT TO THE INDIRECT SOURCE REVIEW (ISR) REQUIREMENT, THE CONTRACTOR IS REQUIRED TO KEEP DAILY RECORDS OF THE TOTAL HOURS OF OPERATION FOR EACH PIECE OF EQUIPMENT GREATER THAN 50-HORSEPOWER BEING USED ON THE PROJECT SITE DURING CONSTRUCTION. WITHIN 30 DAYS OF COMPLETING CONSTRUCTION OF EACH PROJECT PHASE, A REPORT SUMMARIZING TOTAL HOURS OF OPERATION BY EQUIPMENT TYPE, MODEL, YEAR, AND HORSEPOWER FOR EACH PIECE OF CONSTRUCTION EQUIPMENT GREATER THAN 50-HORSEPOWER MUST BE SUBMITTED TO THE AIR DISTRICT. TO ASSIST IN THIS RECORDKEEPING, THE "DETAILED FLEET TEMPLATE" IS AVAILABLE ON THE DISTRICT'S WEBSITE AT HTTP://WWW.VALLEYAIR.ORG/ISR/ISRFORMSANDAPPLICATIONS.HTM. FOR EACH PROJECT PHASE, THE DISTRICT WILL VERIFY THAT THE FLEET DETAILS ACHIEVED THE REQUIRED EMISSION REDUCTIONS. IF THE CONTRACTOR IS NOT GOING TO MEET THE STANDARDS AND/OR RECORD KEEPING REQUIRED BY THE AIR DISTRICT, THE CONTRACTOR SHALL NOTIFY THE AIR BOARD PRIOR TO CONSTRUCTION SO THE NECESSARY MITIGATION FEE SHALL BE PAID. IF THE AIR BOARD IS NOT NOTIFIED PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO PAY THE PENALTY TO THE AIR BOARD.

36. PRIOR TO FINALIZING IMPROVEMENTS AND OPENING ROADS THE CONTRACTOR SHALL COORDINATE WITH THE GOVERNING LOCAL AGENCY FOR POTENTIAL TRAFFIC SIGNAGE AND STRIPING MODIFICATIONS (FOR EXAMPLE, SPEED LIMIT CHANGES OR REDUCTIONS) BEYOND THE PROJECT LIMITS THAT ARE NECESSITATED BY THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN ON THESE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SIGNAGE AND STRIPING MODIFICATIONS REQUIRED BY THE GOVERNING AGENCY.

37. ANY ASSUMPTION MADE BY THE CONTRACTOR IS NOT THE RESPONSIBILITY OF THE ENGINEER OR DESIGN CONSULTANT. CONTRACTOR SHALL SUBMIT A PRE-BID REQUEST FOR INFORMATION (RFI) FOR ANY CLARIFICATION NEEDED AND SHALL BE RESPONSIBLE FOR COMPLETING THE PROJECT AT THE CONTRACTOR'S EXPENSE FOR ANY WRONG ASSUMPTIONS MADE.

GRADING NOTES

1. EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF STOCKTON STANDARDS AND THE PROJECT SOILS REPORT. ALL FILL AREAS SHALL BE TESTED AS REQUIRED BY THE CITY OF STOCKTON AND SHALL BE PAID FOR BY THE CONTRACTOR.

2. THE DEVELOPER SHALL BE RESPONSIBLE FOR COST OF INITIAL TEST FOR MOISTURE DENSITY CURVE. IF THE FIRST TEST FAILS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COST OF ALL SUBSEQUENT CURVES AND TESTS.

3. THE CONTRACTOR SHALL REVIEW SITE PRIOR TO BIDDING. ALL VEGETATION AND DELETERIOUS MATERIALS SHALL BE REMOVED FROM THE SITE AT THE EXPENSE OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE LUMP SUM CLEARING COST.

4. THE CONTRACTOR SHALL PRESERVE ALL STAKES AND POINTS SET FOR LINES, GRADES OR MEASUREMENT OF THE WORK IN THEIR PROPER PLACES UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ALL EXPENSES INCURRED IN REPLACING STAKES THAT HAVE BEEN REMOVED WITHOUT PROPER AUTHORITY SHALL BE PAID FOR BY THE CONTRACTOR.

5. CONTRACTOR'S PRICE SHALL INCLUDE COST TO ACHIEVE A BALANCED SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPORT AND EXPORT MATERIAL AS REQUIRED TO BALANCE SITE.

6. CONTRACTOR SHALL GRADE ALL LANDSCAPE AREAS TO WITHIN 0.10 FEET OF FINAL GRADE ELEVATIONS WITH APPROPRIATE LANDSCAPE SECTIONS INCLUDED.

7. ALL A.C. PAVING SHALL BE FOG SEALED PER SECTION 37 OF CALTRANS STANDARD SPECIFICATIONS, THE LATEST EDITION.

8. GRADE TAGS LOCATED ON CURBS REFERENCE TOP OF CURB ELEVATION UNLESS OTHERWISE NOTED. ADDITIONAL DESCRIPTIONS ARE PROVIDED TO DENOTE HORIZONTAL AND VERTICAL CHANGES IN ACCORDANCE WITH ABBREVIATIONS DEFINED ON COVER SHEET.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING HIS OWN EARTHWORK QUANTITIES FOR BIDDING, CONTRACT AND CONSTRUCTION PURPOSE. IF IT APPEARS THERE WILL BE AN EXCESS OR SHORTAGE OF MATERIAL, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE IF POSSIBLE GRADE ADJUSTMENTS CAN BE MADE.

10. SITE CONTRACTOR SHALL COORDINATE WITH BUILDING CONTRACTOR TO ACCOMMODATE THE PROPER CLEARANCE BETWEEN THE BOTTOM OF THE STUCCO AND THE TOP OF THE GRADE TREATMENT ALONG THE BUILDING AS APPLICABLE, IN ACCORDANCE WITH SECTION 2512.1.2. OF THE MOST CURRENT CALIFORNIA BUILDING CODE. IF THE SUBJECT BUILDING SIDING TREATMENT IS STUCCO, CONTRACTOR SHALL NOTIFY ENGINEER IF ANY GRADES ARE ADJUSTED. CONTRACTOR SHALL ALSO APPLY FLASHING WHERE APPLICABLE WITHIN AREAS OF GRADE TRANSITION.

11. ALL LANDSCAPE AREAS THAT ABUT ANY PORTION OF THE BUILDING SHALL BE GRADED SUCH THAT THE FINISHED GRADE IN LANDSCAPE AREAS SHALL BE A MINIMUM OF EIGHT INCHES (8") BELOW FINISHED FLOOR OF THE ABUTTING BUILDING AND IN NO CASE SHALL THE LANDSCAPE AREA BE GRADED OR LANDSCAPED SUCH THAT WATER DRAINS TOWARD THE BUILDING.

12. SINCE THE ENGINEER CANNOT CONTROL THE EXACT METHOD OR MEANS USED BY THE CONTRACTOR DURING GRADING OPERATIONS, NOR CAN THE ENGINEER GUARANTEE THE EXACT SOIL CONDITION OVER THE ENTIRE SITE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL EARTHWORK QUANTITIES.

13. CONTRACTOR IS RESPONSIBLE FOR THE OFF HAUL AND DISPOSAL OF ANY AND ALL EXCESS DIRT FROM CONSTRUCTION SITE.

14. CONTRACTOR SHALL COORDINATE WITH THE EXISTING ADJOINING PROPERTY OWNERS PRIOR TO ANY WORK BEING STARTED THAT MAY AFFECT THEIR PROPERTY.

15. CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION FROM THE PROPOSED GRADING TO THE EXISTING FLOWLINE, CURB, CONCRETE, AND OR PAVEMENT ELEVATIONS.

16. ALL EXISTING WELLS AND SEPTIC TANKS SHALL BE REMOVED AND/OR ABANDONED PER THE REQUIREMENTS OF THE CITY HEALTH DEPARTMENT AND THE CITY OF STOCKTON. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CLEARING COST.

17. CONTRACTOR SHALL VERIFY BUILDING SUBGRADE SECTIONS WITH ARCHITECT PLANS BEFORE CONSTRUCTION. IF A DISCREPANCY EXISTS, CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY.

18. PRIOR TO CONSTRUCTING ANY FLATWORK THE CONTRACTOR SHALL VERIFY THE FINISH FLOOR ELEVATIONS AT ALL DOORS. NOTE THAT FINISH FLOOR ELEVATIONS MAY HAVE BEEN CHANGED DUE TO FOUNDATION ADJUSTMENTS IN FIELD. CONTRACTOR SHALL HOLD ADJUSTED FINISH FLOOR GRADES, ACCOUNT FOR DOOR THRESHOLDS, AND ADJUST GRADES AS NECESSARY TO STAY IN COMPLIANCE WITH CURRENT ADA STANDARDS. CONTRACTOR SHALL NOTIFY NORTHSTAR ENGINEERING IMMEDIATELY IF ANY GRADE ADJUSTMENTS WILL CREATE ADA ACCESSIBILITY ISSUES.

19. THE VALUES SHOWN ON THE GRADING PLAN ARE FOR REFERENCE AND FEE PURPOSES ONLY. SINCE THE ENGINEER CANNOT CONTROL THE EXACT METHOD OR MEANS USED BY THE CONTRACTOR DURING GRADING OPERATIONS, NOR CAN THE ENGINEER GUARANTEE THE EXACT SOIL CONDITION OVER THE ENTIRE SITE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL EARTHWORK QUANTITIES.

20. THE VALUES SHOWN ON THE GRADING PLAN ARE TO AID THE CONTRACTOR IN DETERMINING THE QUANTITIES OF DIRT TO BE MOVED. THE CUT AND FILL QUANTITIES SHOWN INDICATE A THEORETICAL YARDAGE FIGURE AND ARE GIVEN ONLY AS A CONVENIENCE TO THE CONTRACTOR. THE QUANTITIES SHOWN SHALL NOT BE USED AS THE BASIS OF BID COSTS.

21. EARTHWORK QUANTITY VALUES SHOWN ON PAVING PLAN REPRESENT THE DIFFERENCE BETWEEN THE ESTIMATED EXISTING GRADES FROM ASBUILT DOCUMENTS COMPARED WITH THE SUBGRADE STRUCTURAL SECTIONS OF THE PROPOSED GRADING DESIGN. SEE STRUCTURAL SECTIONS IN HATCH LEGEND ON PAVING PLAN.

22. EARTHWORK QUANTITY CALCULATIONS DO NOT INCLUDE STRIPPING, SHRINKAGE, SWELL FACTORS OR MATERIAL FROM UTILITY TRENCH SPOILS.

NPDES NOTES

1. STORM DRAIN NPDES PERMIT TO COMPLY WITH THE STATE OF CALIFORNIA'S STATEWIDE GENERAL NPDES PERMIT, REGULATING DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM SOIL DISTURBANCES OF ONE (1) ACRE OR MORE. A NOTICE OF INTENT (NOI) TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE FILED AND THE APPROPRIATE FEE PAID PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, AT THE CONCLUSION OF THE PROJECT A NOTICE OF TERMINATION (NOT) MUST ALSO BE FILED. SUBMIT THE FEE, NOI, AND NOT TO THE STATE WATER RESOURCES CONTROL BOARD UTILIZING THE STORM WATER MULTIPLE APPLICATION AND REPORT TRACKING SYSTEM (SMARTS) AT THE FOLLOWING ADDRESS:

   WWW.SMARTS.WATERBOARDS.CA.GOV

   FEES AND PAYMENTS CAN BE MADE TO THE FOLLOWING ADDRESS:

   STATE WATER RESOURCES CONTROL BOARD
   DIVISION OF WATER QUALITY
   ATTN: STORM WATER PERMIT UNIT
   P.O. BOX 1977
   SACRAMENTO, CA 95812-1977

   IF YOU HAVE ANY QUESTIONS CALL JOSEPH HENAO, WATER QUALITY CONTROL ENGINEER, CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, AT (916) 255-3028.

THE FOLLOWING MUST BE SUBMITTED TO THE CITY PRIOR TO BEGINNING WORK AND PRIOR TO THE ISSUANCE OF AN ENCROACHMENT PERMIT:

A) TRANSMITTAL MEMO THAT INCLUDES:
   * THE NAME AND PHONE NUMBER OF THE PERSON RESPONSIBLE FOR SWPPP IMPLEMENTATION, AND
   * IF APPLICABLE, A LISTING OF THE POST-CONSTRUCTION BEST MANAGEMENT PRACTICES THAT WILL BE INSTALLED TO SATISFY THE REQUIREMENTS OF THE CITY OF STOCKTON MUNICIPAL CODE.
   * COPY OF SWPPP MUST REMAIN ON SITE DURING CONSTRUCTION AT ALL TIMES.

B) COPY OF A SIGNED NOTICE OF INTENT FORM OR A WASTE DISCHARGE IDENTIFICATION NUMBER.
   WDID#: SSS018100

DEWATERING NOTES

1. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE AND MAINTAIN ALL MACHINERY APPLIANCES, AND EQUIPMENT TO MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION. THE CONTRACTOR SHALL DISPOSE OF THE WATER SO AS NOT TO CAUSE DAMAGE TO PUBLIC OR PRIVATE PROPERTY, OR TO CAUSE A NUISANCE OR MENACE TO THE PUBLIC OR VIOLATE THE LAW. THE DEWATERING SYSTEM SHALL BE INSTALLED AND OPERATED SO THAT THE GROUNDWATER LEVEL OUTSIDE THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGERED ADJACENT STRUCTURES OR PROPERTY. ALL COST FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL PIPE CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 1 FOOT BELOW THE BOTTOM OF EXCAVATIONS TO MAINTAIN THE UNDISTURBED STATE OF NATURAL SOILS AND ALLOW THE PLACEMENT OF ANY FILL TO THE SPECIFIED DENSITY. THE CONTRACTOR SHALL HAVE ON HAND, PUMPING EQUIPMENT AND MACHINERY IN GOOD WORKING CONDITION FOR EMERGENCIES AND SHALL HAVE WORKMEN AVAILABLE FOR IT'S OPERATION. DEWATERING SYSTEMS SHALL OPERATE CONTINUOUSLY UNTIL BACK FILL HAS BEEN COMPLETED TO 1 FOOT ABOVE THE NORMAL STATIC GROUNDWATER LEVEL.

2. THE CONTRACTOR SHALL CONTROL SURFACE WATER TO PREVENT ENTRY INTO EXCAVATIONS. AT EACH EXCAVATION, A SUFFICIENT NUMBER OF TEMPORARY OBSERVATION WELLS TO CONTINUOUSLY CHECK THE GROUNDWATER LEVEL SHALL BE PROVIDED.

DEWATERING NOTES (CONT)

3. THE CONTROL OF GROUNDWATER SHALL BE SUCH THAT SOFTENING OF THE BOTTOM OF EXCAVATIONS, OR FORMATION OF "QUICK" CONDITIONS OR "BOILS", DOES NOT OCCUR. DEWATERING SYSTEMS SHALL BE DESIGNED AND OPERATED SO AS TO PREVENT REMOVAL OF THE NATURAL SOILS. THE RELEASE OF GROUNDWATER AT ITS STATIC LEVEL SHALL BE PERFORMED IN SUCH A MANNER AS TO MAINTAIN THE UNDISTURBED STATE OF THE NATURAL FOUNDATIONS SOILS, PREVENT DISTURBANCE OF COMPACTED BACK FILL, AND PREVENT FLOTATION OR MOVEMENT OF STRUCTURES, PIPELINES AND SEWERS. IF AN NPDES (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR DISPOSAL OF WATER FROM CONSTRUCTION DEWATERING ACTIVITIES, IT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY DEWATERING ACTIVITIES.

4. ONE HUNDRED PERCENT STANDBY PUMPING CAPACITY SHALL BE AVAILABLE ON SITE AT ALL TIMES AND SHALL BE CONNECTED TO THE DEWATERING SYSTEM PIPING TO PERMIT IMMEDIATE USE. IN ADDITION, STANDBY AUXILIARY EQUIPMENT AND APPLIANCES FOR ALL ORDINARY EMERGENCIES, AND COMPETENT WORKMEN FOR OPERATION AND MAINTENANCE OF ALL DEWATERING EQUIPMENT SHALL BE ON SITE AT ALL TIMES. STANDBY EQUIPMENT SHALL INCLUDE EMERGENCY POWER GENERATION AND AUTOMATIC SWITCH OVER TO THE EMERGENCY GENERATOR WHEN NORMAL POWER FAILS. DEWATERING SYSTEMS SHALL NOT BE SHUT DOWN BETWEEN SHIFTS, ON HOLIDAYS, ON WEEKENDS, OR DURING WORK STOPPAGES.

5. SUMPS SHALL BE NO DEEPER THAN 5 FEET AND SHALL BE AT THE LOW POINT OF EXCAVATION. EXCAVATION SHALL BE GRADED TO DRAIN TO THE SUMPS.

STORM DRAIN NOTES

1. ALL STORM DRAIN CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE.

2. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.

3. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5 FEET OR MORE. SAID PROTECTION TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF STOCKTON DEPARTMENT OF PUBLIC WORKS, AND STATE REGULATIONS.

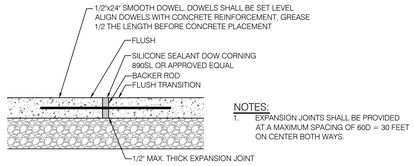
4. ALL MAINTENANCE HOLE RIMS TO BE ADJUSTED TO PROPOSED FINISH GRADE AFTER STREET PAVING, UNLESS OTHERWISE NOTED.

CITY OF STOCKTON STANDARD DETAILS

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN THE MOST UP TO DATE CITY OF STOCKTON STANDARDS FOR REFERENCE PRIOR TO AND DURING CONSTRUCTION.
2. THE LATEST COPY OF THE CITY OF STOCKTON STANDARDS SHALL BE CONSIDERED PART OF THIS PLAN SET.
3. IN THE EVENT OF A DISCREPANCY BETWEEN THIS PLAN SET AND CITY STANDARDS, CITY STANDARDS SHALL PREVAIL.
4. STANDARD PLAN DRAWINGS REFERENCED WITHIN THIS PLAN SET INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING DRAWINGS:

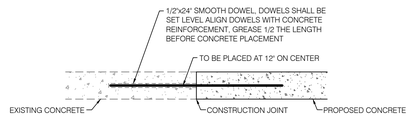
CITY OF STOCKTON:

DRAWING NO. R-36	EXISTING STREET TRENCH SECTION FOR TRENCHES LARGER THAN 8'
DRAWING NO. R-37	EXISTING STREET TRENCH SECTION FOR TRENCHES 8' OR LESS
DRAWING NO. R-42	TRENCH SECTION HDPE PIPE
DRAWING NO. R-52	VERTICAL CURB, GUTTER & SIDEWALK
DRAWING NO. R-54	VERTICAL CURB & APRON
DRAWING NO. R-55	CONCRETE CURB, GUTTER & SIDEWALK CONSTRUCTION STANDARDS
DRAWING NO. R-56	KEYING CONCRETE SLAB
DRAWING NO. R-115	PARKING AREA STANDARDS
DRAWING NO. R-116	AISLE WIDTH REQUIREMENTS FOR PARKING AREAS
DRAWING NO. S-12	TYPE 2 MAINTENANCE HOLE FOR PIPES 36" DIAMETER AND LARGER
DRAWING NO. S-15	PROTECTION OF STORM DRAINS AND SANITARY SEWER LINES
DRAWING NO. S-18	CLEANOUT
DRAWING NO. D-4	STORM DRAIN DATA
DRAWING NO. D-10	STORM DRAIN MESSAGE AND LOCATION
DRAWING NO. D-12	UNDER SIDEWALK DRAIN FOR ROOF DRAINS
DRAWING NO. W-3	WATER SERVICE INSTALLATION 1", 1.5", AND 2" SERVICE
DRAWING NO. W-4	FITTINGS FOR WATER SERVICE
DRAWING NO. W-11	VALVE BOX DETAILS
DRAWING NO. W-12	THRUST BLOCK DETAILS
DRAWING NO. W-13	FIRE HYDRANT
DRAWING NO. W-16	FIRE PROTECTION STANDARDS

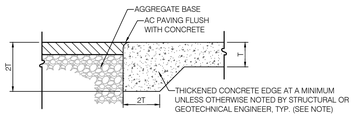


NOTES:
1. EXPANSION JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 60D = 30 FEET ON CENTER BOTH WAYS.

1 EXPANSION JOINT
NTS



2 CONSTRUCTION JOINT
NTS

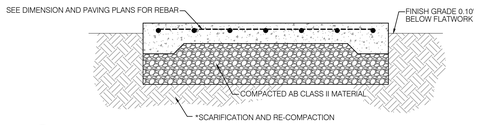


NOTE:
CONTRACTOR SHALL TRANSITION THICKENED EDGE PER SOILS REPORT RECOMMENDATIONS.

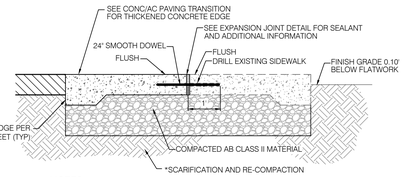
3 CONC / AC PAVING TRANSITION AND THICKENED EDGE
NTS

4 4' CONCRETE WHEEL STOP
NTS

NOTES:
1. *SUBGRADE PREPARATION REQUIREMENTS PER GEOTECHNICAL REPORT, CITY OF STOCKTON STANDARDS AND SPECIFICATIONS, AND PROJECT SPECIFICATIONS.
2. AT EXPANSION JOINT USE 1/2"x24" SMOOTH DOWELS, 18"OC GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT. SEE EXPANSION JOINT DETAIL THIS SHEET.
3. CONSTRUCT CONTROL AND CONSTRUCTION JOINTS PER DETAILS ON THIS SHEET AND IN ACCORDANCE WITH CURRENT PORTLAND CEMENT ASSOCIATION GUIDELINES.
4. CONTROL JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 5' ON CENTER BOTH WAYS.

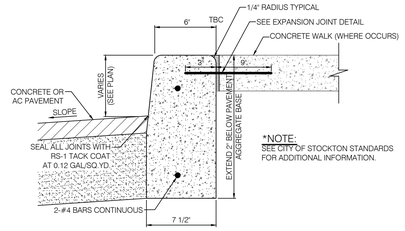


5 CONCRETE FLATWORK
NTS

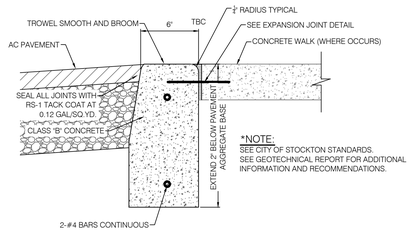


NOTES:
1. *SUBGRADE PREPARATION REQUIREMENTS PER GEOTECHNICAL REPORT, CITY OF STOCKTON STANDARDS AND SPECIFICATIONS, AND PROJECT SPECIFICATIONS.
2. AT EXPANSION JOINT USE 1/2"x24" SMOOTH DOWELS, 18"OC GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT. SEE EXPANSION JOINT DETAIL THIS SHEET.

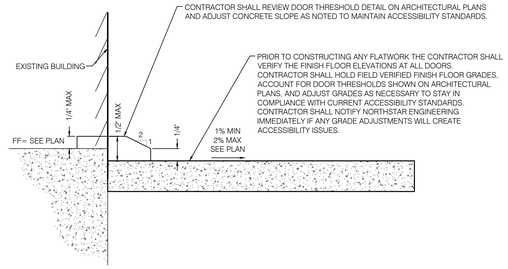
6 CONCRETE FLATWORK AT EXISTING FLATWORK
NTS



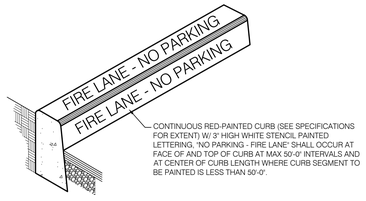
7 VERTICAL CURB DETAIL
NTS



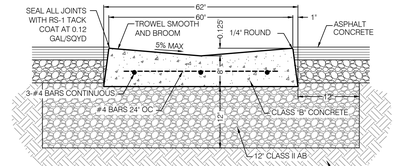
8 FLUSH CURB DETAIL
NTS



9 TYPICAL DOOR THRESHOLD AT CONCRETE LANDING
NTS

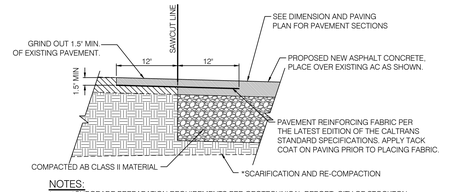


10 FIRE LANE DETAIL
NTS



NOTES:
1. *SUBGRADE PREPARATION REQUIREMENTS PER GEOTECHNICAL REPORT, CITY OF STOCKTON STANDARDS AND SPECIFICATIONS, AND PROJECT SPECIFICATIONS.
2. CONTRACTOR SHALL CONSTRUCT VALLEY GUTTER WITH MAXIMUM 2.0% CROSS SLOPE AT ALL CROSSWALK LOCATIONS.
3. SEE STRUCTURAL SECTIONS ON DIMENSION AND PAVING PLAN, SHEET C3.1.

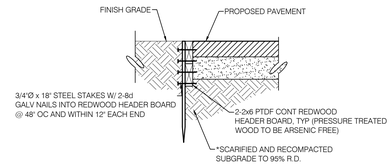
11 TYPICAL 5' VALLEY GUTTER DETAIL
NTS



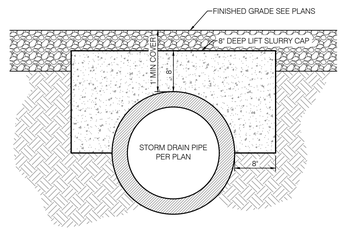
NOTES:
1. *SUBGRADE PREPARATION REQUIREMENTS PER GEOTECHNICAL REPORT, CITY OF STOCKTON STANDARDS AND SPECIFICATIONS, AND PROJECT SPECIFICATIONS.
2. LAP JOINT SHALL APPLY AT ALL SAWCUT LOCATIONS ALONG ALL PAVEMENT UNLESS OTHERWISE NOTED.

12 LAP JOINT DETAIL
NTS

NOTES:
1. *SUBGRADE PREPARATION REQUIREMENTS PER GEOTECHNICAL REPORT AND CITY OF STOCKTON STANDARDS AND SPECIFICATIONS.
2. PAVEMENT SECTIONS SHOULD BE ISOLATED FROM INTRUSION OF WATER AT ALL LOCATIONS WHERE PAVEMENTS ARE ADJACENT TO IRRIGATED LANDSCAPE AREAS THAT MAY POND WATER.



13 EDGE OF PAVEMENT REDWOOD HEADER BOARD
NTS



14 STORM DRAIN PIPE CONCRETE CAP
NTS

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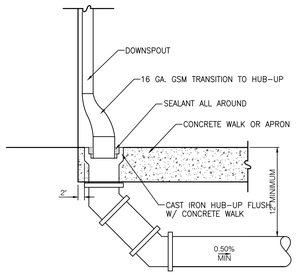
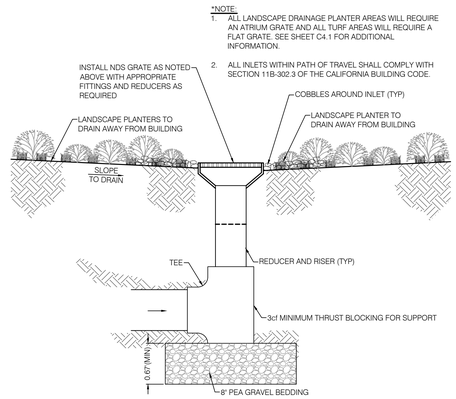
DETAILS AND CROSS SECTIONS

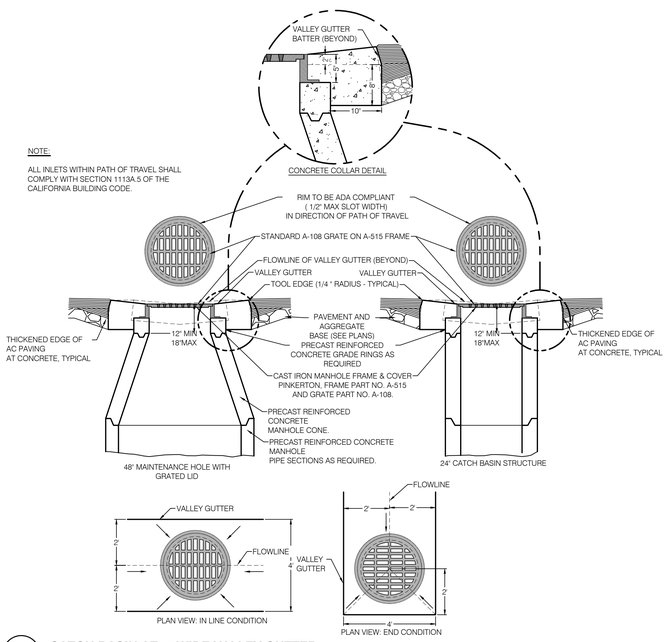
C1.3



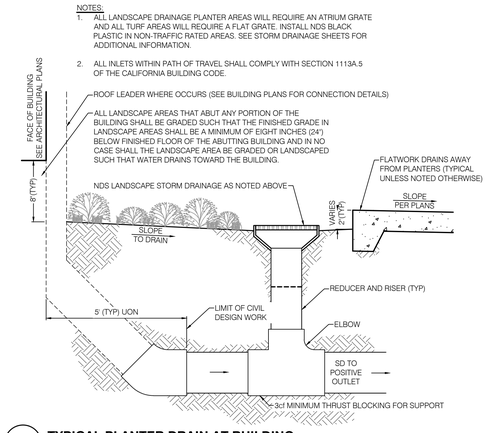
1 DOWNSPOUT CONNECTION TO STORM DRAIN
NTS



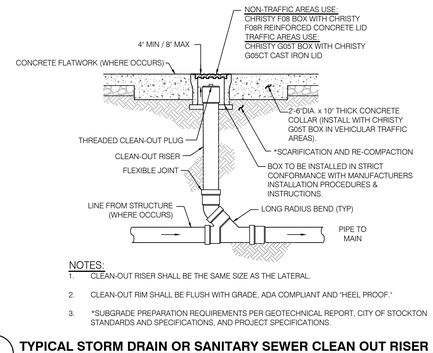
2 TYPICAL NDS LANDSCAPE BUBBLE UP
NTS



3 CATCH BASIN AT 4" WIDE VALLEY GUTTER
NTS



4 TYPICAL PLANTER DRAIN AT BUILDING



NOTES:
1. CLEAN-OUT RISER SHALL BE THE SAME SIZE AS THE LATERAL.
2. CLEAN-OUT RIM SHALL BE FLUSH WITH GRADE, ADA COMPLIANT AND "HEEL PROOF."
3. *SUBGRADE PREPARATION REQUIREMENTS PER GEOTECHNICAL REPORT, CITY OF STOCKTON STANDARDS AND SPECIFICATIONS, AND PROJECT SPECIFICATIONS.

5 TYPICAL STORM DRAIN OR SANITARY SEWER CLEAN OUT RISER
NTS

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DETAILS AND CROSS SECTIONS

C1.4

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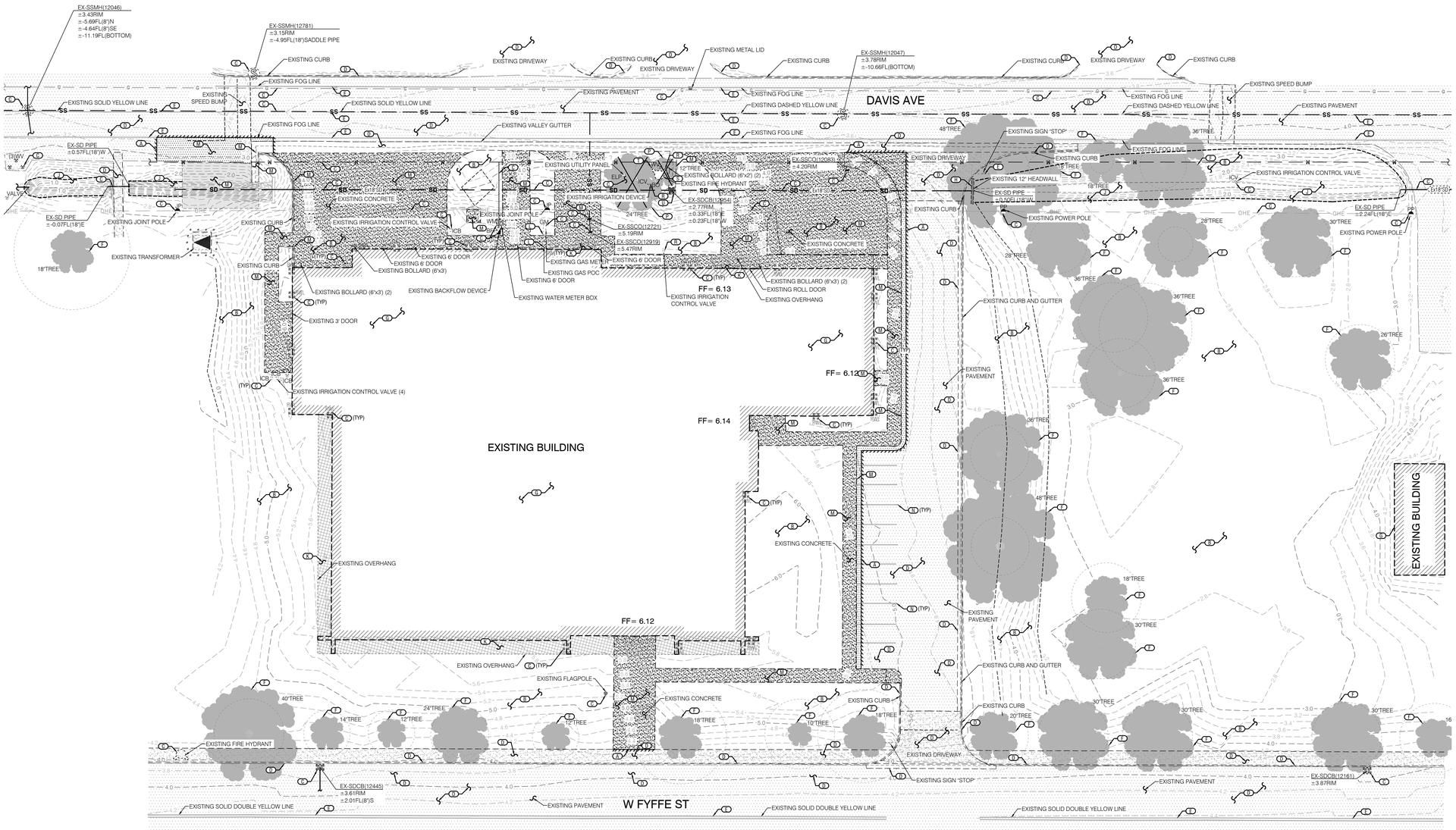

HATCH LEGEND

- EXISTING PAVEMENT TO REMAIN
- EXISTING PAVEMENT TO BE REMOVED
- EXISTING CONCRETE TO REMAIN
- EXISTING CONCRETE TO BE REMOVED
- EXISTING AGGREGATE BASE TO BE REMOVED

KEY NOTES

1. SAWCUT AND REMOVE EXISTING PAVEMENT, CONCRETE, AND OR CURB AS REQUIRED PER THESE PLANS. CONTRACTOR MAY NEED TO FIELD ADJUST SAWCUT LINE TO REMOVE THE PAVEMENT OR CONCRETE SECTION AT A CLEAN EDGE OR NEAREST JOINT BASED ON FIELD CONDITIONS WHILE MAINTAINING ACCESSIBLE TRANSITION TO PROVIDE COMPLIANCE WITH ACCESSIBILITY STANDARDS. WHERE APPLICABLE. LAP JOINT PER DETAIL 8 ON SHEET C1.3 SHALL APPLY TO ALL SAWCUT LOCATIONS ALONG AC PAVEMENT, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL "USE EXTREME CAUTION" THROUGHOUT THE COURSE OF CONSTRUCTION AS ADDITIONAL UNDERGROUND LINES AND STRUCTURES NOT SHOWN ON THIS PLAN MAY EXIST AND ARE NOT CLEARLY MARKED OR VISIBLE FROM THE SURFACE. ADDITIONALLY CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING BY LOW HANGING POWER LINES. IN CONJUNCTION WITH CONTACTING USA TO LOCATE UNDERGROUND UTILITIES WITHIN THE PUBLIC RIGHT-OF-WAY IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR UTILIZE (GPR) GROUND PENETRATING RADAR UNDERGROUND SERVICES TO IDENTIFY UTILITIES THAT MAY NOT BE VISIBLE FROM THE SURFACE.
3. "USE EXTREME CAUTION" CONTRACTOR SHALL PROTECT EXISTING STRUCTURES, OVERHEAD LINES AND UNDERGROUND UTILITIES THROUGHOUT THE COURSE OF CONSTRUCTION AND REPAIR/REPLACE IF DAMAGED DURING CONSTRUCTION, AT CONTRACTOR'S EXPENSE. COORDINATE WITH APPROPRIATE CONSULTANT AND/OR AGENCY FOR ANY RELOCATION OR REMOVAL. CONTRACTOR SHALL ADJUST TO PROPOSED GRADE AS NECESSARY.
4. CONTRACTOR SHALL PROTECT EXISTING CONCRETE, CURB AND/OR PAVEMENT THROUGHOUT THE COURSE OF CONSTRUCTION AND REPAIR/REPLACE IF DAMAGED DURING CONSTRUCTION, AT CONTRACTOR'S EXPENSE. SEE KEYNOTE "A" ABOVE.
5. CONTRACTOR SHALL PROTECT EXISTING STRIPING AND SIGNAGE THROUGHOUT THE COURSE OF CONSTRUCTION AND REPAIR/REPLACE IF DAMAGED DURING CONSTRUCTION, AT CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL PROTECT EXISTING TREE, SHRUB, AND ROOTS THROUGHOUT THE COURSE OF CONSTRUCTION. EXCAVATION AND GRADING SHOULD BE KEPT TO A MINIMUM AND NOTIFY THE OWNER IMMEDIATELY SHOULD THE TREE NEED TO BE REMOVED TO COMPLETE IMPROVEMENTS.
7. CONTRACTOR SHALL PROTECT EXISTING BUILDING THROUGHOUT THE COURSE OF CONSTRUCTION AND REPAIR/REPLACE IF DAMAGED DURING CONSTRUCTION, AT CONTRACTOR'S EXPENSE.
8. CONTRACTOR SHALL PROTECT EXISTING HEADWALL THROUGHOUT THE COURSE OF CONSTRUCTION AND REPAIR/REPLACE IF DAMAGED DURING CONSTRUCTION, AT CONTRACTOR'S EXPENSE.
9. CONTRACTOR SHALL PROTECT EXISTING DITCH THROUGHOUT THE COURSE OF CONSTRUCTION AND REPAIR/REPLACE IF DAMAGED DURING CONSTRUCTION, AT CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL PROTECT EXISTING OVERHEAD STRUCTURES AND COLUMNS THROUGHOUT THE COURSE OF CONSTRUCTION AND REPAIR/REPLACE IF DAMAGED DURING CONSTRUCTION, AT CONTRACTOR'S EXPENSE.
11. CONTRACTOR SHALL "USE EXTREME CAUTION" WHEN PERFORMING CONSTRUCTION ACTIVITIES NEAR EXISTING GAS LINE STRUCTURES AND/OR UNDERGROUND UTILITIES. SEE KEYNOTE "C" FOR ADDITIONAL INFORMATION.
12. CONTRACTOR SHALL REMOVE EXISTING CONCRETE, CURB, VALLEY GUTTER, AND/OR PAVEMENT STRUCTURAL SECTION AS SHOWN AND DISPOSE OF OFF-SITE AT THE CONTRACTOR'S EXPENSE. SEE KEYNOTE "A" ABOVE FOR ADDITIONAL INFORMATION.
13. CONTRACTOR SHALL REMOVE EXISTING STRIPING AT THE CONTRACTOR'S EXPENSE.
14. CONTRACTOR SHALL REMOVE EXISTING TREE AND SHRUB, ALONG WITH ANY ROOTS TO THE DEPTH SPECIFIED BY THE GEOTECHNICAL ENGINEER, AND DISPOSE OF OFFSITE AT THE CONTRACTOR'S EXPENSE.
15. CONTRACTOR SHALL REMOVE EXISTING IRRIGATION DEVICES AND RELOCATE AS NECESSARY PER LANDSCAPE ARCHITECTURAL PLANS.
16. CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING FIRE HYDRANT DEVICE PER THESE PLANS. REFER TO UTILITY PLANS FOR ADDITIONAL INFORMATION.
17. CONTRACTOR SHALL REMOVE EXISTING BOLLARD AND DISPOSE OF OFF-SITE AT THE CONTRACTOR'S EXPENSE.
18. CONTRACTOR SHALL REMOVE EXISTING UTILITY LINE AND/OR STRUCTURE. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AND APPROPRIATE CONSULTANT FOR ANY RELOCATION AND/OR REROUTING OF UTILITY LINE. CONTRACTOR SHALL DISPOSE OF REMOVED MATERIALS OFFSITE AT THE CONTRACTORS EXPENSE.

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TOPOGRAPHIC AND DEMOLITION PLAN

C2.1

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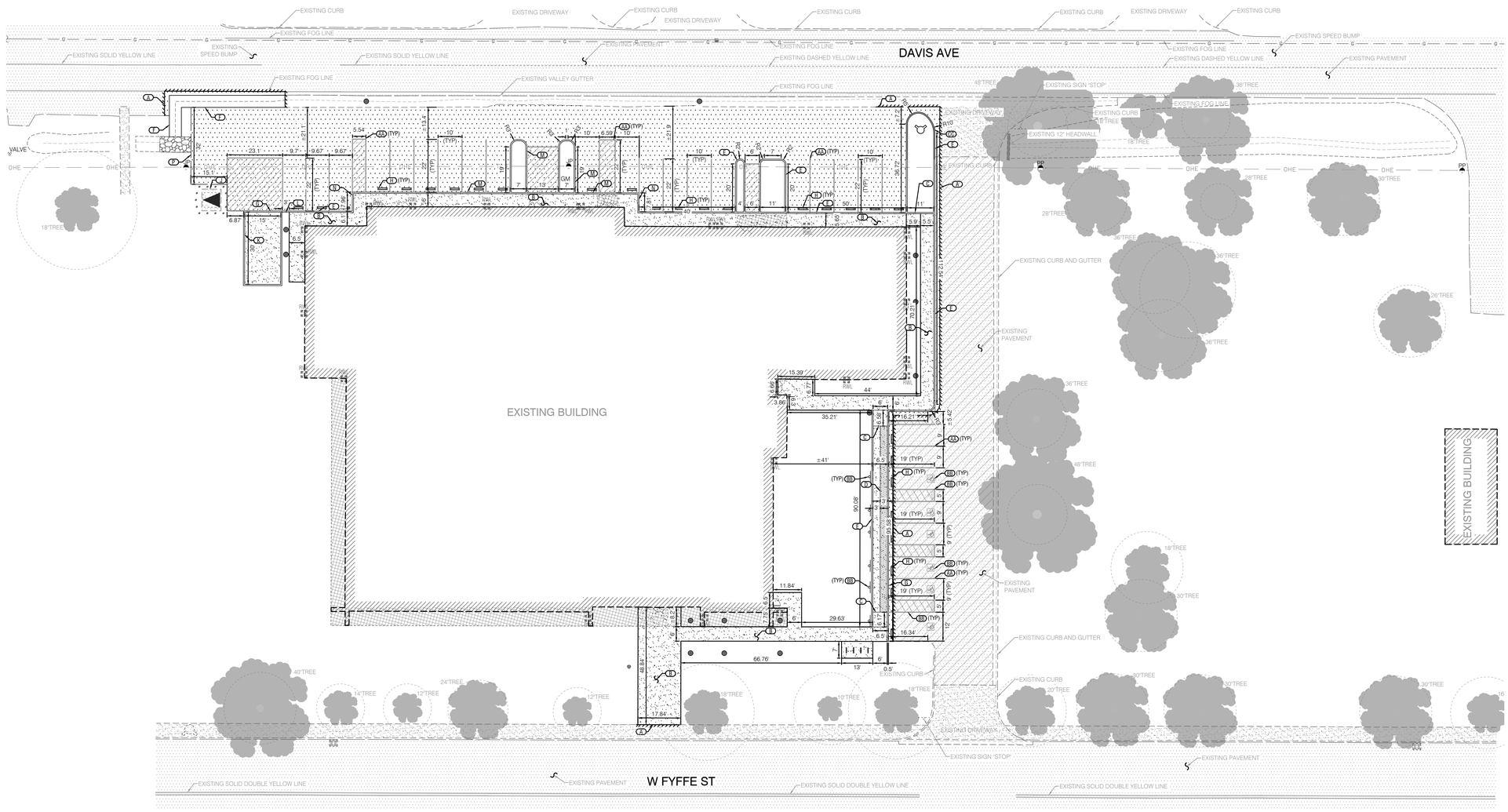

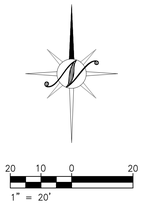

HATCH LEGEND

EXISTING PAVEMENT

EXISTING CONCRETE

*PAVEMENT SECTION - STANDARD DUTY (PARKING LOT)
TI = 6, R-VALUE = 5, 2.5" AC/15" CLASS 2 AB (95%RC)
SEE GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION AND ADDITIONAL RECOMMENDATIONS

*PAVEMENT SECTION - GRIND AND OVERLAY (PARKING LOT)
CONTRACTOR SHALL GRIND AND OVERLAY AT LEAST 2" OF ASPHALT PAVEMENT.

**CONCRETE SECTION - PEDESTRIAN
6" PCC / 4" CLASS II AB (95% RC) W/ #3 REBAR @18" O.C., BOTH WAYS
SEE GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION AND ADDITIONAL RECOMMENDATIONS

*GEOTECHNICAL REPORTS AND/OR ADDENDUMS MAY EXIST. CONTRACTOR SHALL REVIEW DOCUMENTS TO CONFIRM STRUCTURAL SECTIONS.
**SEE ARCHITECTURAL PLANS FOR SCORING, CONTROL JOINTS, PATTERN, COLOR AND ADDITIONAL CONCRETE DETAILS AND SPECIFICATIONS.

KEY NOTES

REFER TO APPLICABLE NOTES ON SHEET C1.2 AND APPLICABLE DETAILS ON SHEETS C1.3-C1.4.

SEE TOPOGRAPHIC AND DEMOLITION SHEET C2.1 FOR ADDITIONAL REMOVAL, REPLACEMENT AND PROTECTION NOTES.

(1) SAWCUT AND REMOVE EXISTING PAVEMENT, CONCRETE, AND OR CURB AS REQUIRED PER THESE PLANS. CONTRACTOR MAY NEED TO FIELD ADJUST SAWCUT LINE TO REMOVE THE PAVEMENT OR CONCRETE SECTION AT A CLEAN EDGE OR NEAREST JOINT BASED ON FIELD CONDITIONS WHILE MAINTAINING ACCESSIBLE TRANSITION TO PROVIDE COMPLIANCE WITH ACCESSIBILITY STANDARDS, WHERE APPLICABLE. LAP JOINT PER DETAIL 12 ON SHEET C1.3 SHALL APPLY TO ALL SAWCUT LOCATIONS ALONG AC PAVEMENT, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL INSTALL DOWELS AT ALL CONNECTIONS BETWEEN EXISTING AND PROPOSED CONCRETE.

(2) ACCESSIBLE PATH OF TRAVEL NOT TO EXCEED 5.0% MAX RUNNING SLOPE AND 2.0% MAX CROSS SLOPE. PLAZA AREAS AND INTERSECTING WALKWAYS NOT TO EXCEED 2.0% MAX SLOPE IN ANY DIRECTION. ACCESSIBLE PATH OF TRAVEL DETERMINATION, ACCESSIBILITY AND SIGNAGE SHALL BE DETERMINED BY ARCHITECTURAL PLANS. SEE ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS, INCLUDING HANDRAILS, WHERE APPLICABLE.

(3) ACCESSIBLE RAMP 8.33% MAX SLOPE WITH A 2.0% MAX LEVEL LANDING PER CITY OF STOCKTON STANDARD PLANS AND SPECIFICATIONS. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

(4) CONTRACTOR SHALL INSTALL DETECTABLE WARNING SURFACE. SEE ARCHITECTURAL PLANS FOR DETAILS AND SPECIFICATIONS.

(5) CONTRACTOR SHALL INSTALL 6" VERTICAL CURB PER DETAIL 7 ON SHEET C1.3 AND CITY OF STOCKTON STANDARD PLANS AND SPECIFICATIONS.

(6) CONTRACTOR SHALL INSTALL 5' VALLEY GUTTER. SEE DETAIL 11 ON SHEET C1.3.

(7) CONTRACTOR SHALL INSTALL FLUSH CURB PER DETAIL 8 ON SHEET C1.3.

(8) CONTRACTOR SHALL INSTALL WHEEL STOP PER DETAIL 4 ON SHEET C1.3.

(9) CONTRACTOR SHALL NOTE THAT THE LOCATIONS OF THE TRANSFORMER, CONCRETE PAD, AND BOLLARDS WERE PROVIDED BY THE DEVELOPER. A SURVEY WAS NOT PERFORMED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION TO AVOID CONFLICTS WITH PROPOSED IMPROVEMENTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY NORTHSTAR ENGINEERING OF ANY CONFLICTS SO THAT APPROPRIATE SOLUTIONS CAN BE PROVIDED.

(10) CONTRACTOR SHALL INSTALL 4" VERTICAL CURB PER DETAIL 7 ON SHEET C1.3 AND CITY OF STOCKTON STANDARD PLANS AND SPECIFICATIONS.

(11) CONTRACTOR SHALL INSTALL 6" TO 4" TRANSITION PER CITY OF STOCKTON STANDARD AND SPECIFICATIONS.

(12) CONTRACTOR SHALL INSTALL 8" VERTICAL CURB PER DETAIL 7 ON SHEET C1.3 AND CITY OF STOCKTON STANDARD PLANS AND SPECIFICATIONS.

(13) CONTRACTOR SHALL INSTALL 6" TO 8" TRANSITION PER CITY OF STOCKTON STANDARD AND SPECIFICATIONS.

(14) CONTRACTOR SHALL INSTALL EDGE OF PAVEMENT HEADERBOARD PER DETAIL 13 ON SHEET C1.3.

(15) CONTRACTOR SHALL INSTALL STRIPING INCLUDING CROSSWALKS AS INDICATED BY THE ARCHITECT AND THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE STANDARDS. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

(16) CONTRACTOR SHALL INSTALL ACCESSIBLE SIGNAGE AND STRIPING AS INDICATED BY THE ARCHITECT. PER THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE STANDARDS. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS AND SPECIFICATIONS. USE EXTREME CAUTION WHEN INSTALLING SIGN FOOTINGS AS UNDERGROUND UTILITIES MAY EXIST.

(17) ALL AREAS INDICATED SHALL BE MARKED WITH RED CURB AND WHITE STENCILS "NO PARKING -FIRE LANE" INCLUDING THE PROPER SIGNAGE IN ACCORDANCE WITH THE REQUIREMENTS OF CITY OF STOCKTON AND THE FIRE DEPARTMENT. SEE DETAIL 10 ON SHEET C1.3 IN LIEU OF PAINTING "NO PARKING" RED CURB CONTRACTOR SHALL INSTALL "NO PARKING" SIGNAGE AS DIRECTED BY THE FIRE DEPARTMENT. "USE EXTREME CAUTION" WHEN INSTALLING POST AND FOOTINGS TO AVOID UNDERGROUND UTILITIES

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DIMENSION AND PAVING PLAN

C3.1

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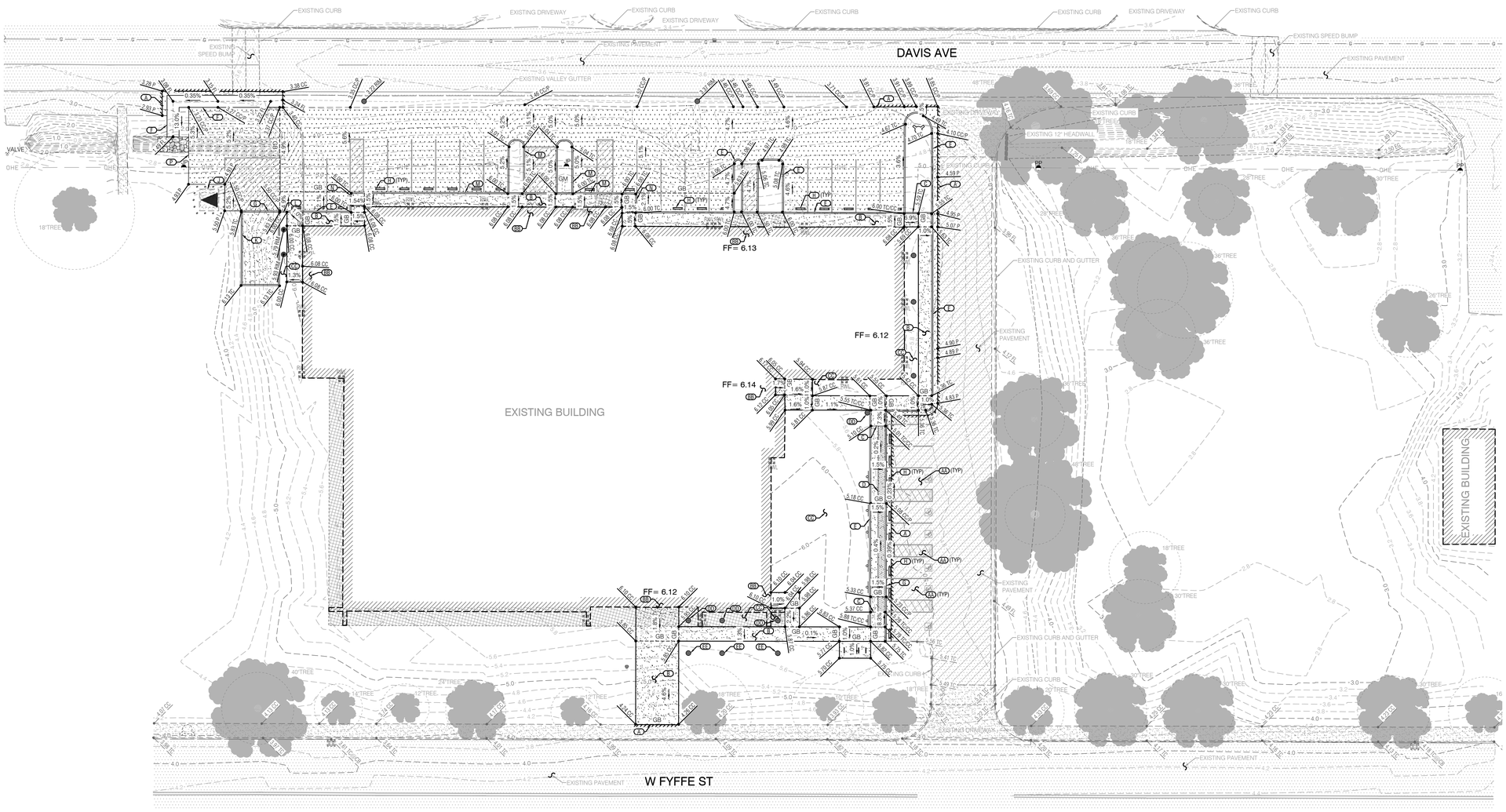

KEY NOTES

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SEE TOPOGRAPHIC AND DEMOLITION SHEET C2.1 FOR ADDITIONAL REMOVAL, REPLACEMENT AND PROTECTION NOTES.

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(8) ACCESSIBLE PATH OF TRAVEL NOT TO EXCEED 5.0% MAX RUNNING SLOPE AND 2.0% MAX CROSS SLOPE. PLAZA AREAS AND INTERSECTING WALKWAYS NOT TO EXCEED 2.0% MAX SLOPE IN ANY DIRECTION. ACCESSIBLE PATH OF TRAVEL DETERMINATION, ACCESSIBILITY AND SIGNAGE SHALL BE DETERMINED BY ARCHITECTURAL PLANS. SEE ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS, INCLUDING HANDRAILS, WHERE APPLICABLE.

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(13) CONTRACTOR SHALL INSTALL 6' TO 8" TRANSITION PER CITY OF STOCKTON STANDARD AND SPECIFICATIONS.

(9) CONTRACTOR SHALL INSTALL EDGE OF PAVEMENT HEADERBOARD PER DETAIL 13 ON SHEET C1.3.

(15) CONTRACTOR SHALL CONSTRUCT ACCESSIBLE PARKING STALLS AND LOADING/UNLOADING AREAS WITH A MAXIMUM 2% SLOPE IN ALL DIRECTIONS.

(20) PRIOR TO CONSTRUCTING ANY CONCRETE OR PAVEMENT THE CONTRACTOR SHALL VERIFY THE FINISH FLOOR ELEVATIONS AT ALL DOORS. CONTRACTOR SHALL HOLD FIELD VERIFIED FINISH FLOOR GRADES, ACCOUNT FOR DOOR THRESHOLDS, AND ADJUST GRADES AS NECESSARY TO STAY IN COMPLIANCE WITH CURRENT ACCESSIBILITY STANDARDS. CONTRACTOR SHALL NOTIFY NORTHSTAR ENGINEERING IMMEDIATELY IF ANY GRADE ADJUSTMENTS WILL CREATE ANY ACCESSIBILITY ISSUES.

(22) CONTRACTOR SHALL SWALE AND GRADE LANDSCAPE AREA IN SUCH A WAY THAT NO PONDING WILL OCCUR. CONTRACTOR SHALL GRADE LANDSCAPE AREAS SO THAT ALL RUNOFF IS COLLECTED IN THE STORM DRAIN SYSTEM. ALL LANDSCAPE AREAS THAT ABUT ANY PORTION OF THE BUILDING SHALL BE A MINIMUM OF EIGHT INCHES (8") BELOW FINISHED FLOOR OF THE ABUTTING BUILDING, AND IN NO CASE SHALL THE LANDSCAPE AREA BE GRADED OR LANDSCAPED SUCH THAT WATER DRAINS TOWARD THE BUILDING. CONTRACTOR SHALL REPLACE AND/OR REPAIR ANY TURF, LANDSCAPE IMPROVEMENTS, IRRIGATION VALVES, DEVICES, SPRINKLER HEADS, THAT ARE FOUND ON THE FIELD TO BE IN CONFLICT WITH THESE IMPROVEMENTS AND RETURN THE AREA TO ITS ORIGINAL APPEARANCE.

(NDS) CONTRACTOR SHALL INSTALL NDS LANDSCAPE INLET AND UNDER THE SIDEWALK DRAIN PER CITY OF STOCKTON STANDARD DETAIL D-12. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR ALLOW WATER TO POND ADJACENT TO THE BUILDING.

(22) CONTRACTOR SHALL INSTALL NDS BUBBLE UP STRUCTURE WITH RIP-RAP MATERIAL TO PREVENT EROSION PER DETAIL 2 ON SHEET C1.4.

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GRADING AND DRAINAGE PLAN

C4.1

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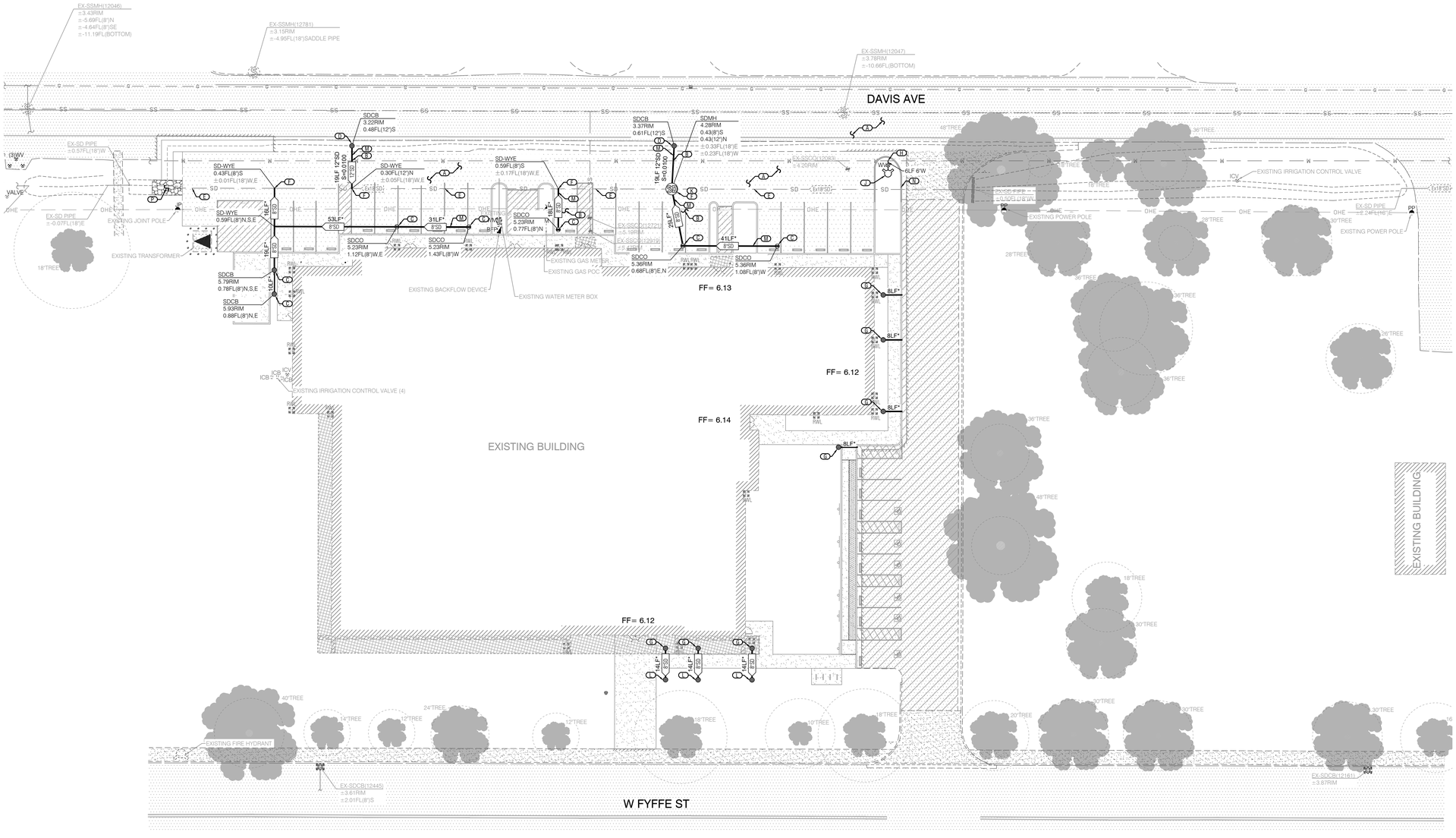

KEY NOTES

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SEE TOPOGRAPHIC AND DEMOLITION SHEET C2.1 FOR ADDITIONAL REMOVAL, REPLACEMENT AND PROTECTION NOTES.

*PIPE SHALL BE 8"SD S=0.0100 UNLESS OTHERWISE NOTED

1. CONTRACTOR SHALL "USE EXTREME CAUTION" THROUGHOUT THE COURSE OF CONSTRUCTION AS TO AVOID EXISTING UNDERGROUND LINES AND STRUCTURES THAT MAY CONFLICT WITH PROPOSED IMPROVEMENTS.
2. CONTRACTOR SHALL "USE EXTREME CAUTION" AT ALL UTILITY CROSSINGS AND SHALL COMPLY WITH ALL APPLICABLE STANDARDS. IF A CONFLICT IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTRACTOR SHALL INSTALL CONCRETE SUPPORT AT ALL CROSSINGS WITH LESS THAN 1' OF SEPARATION BETWEEN OUTSIDE DIAMETER OF PIPES.
3. CONTRACTOR SHALL INSTALL STORM DRAIN CLEANOUT PER DETAIL 5 ON SHEET C1.4 AND CONNECT ROOF DOWNSPOUT TO STORM DRAINAGE SYSTEM PER DETAIL 1 AND 4 ON SHEET C1.4. APPROXIMATE LOCATION OF ROOF DRAIN SPOUT OR DRAIN CONNECTION. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND CONSTRUCTION DETAILS. INSTALL APPROPRIATE REDUCER FITTING TO MATCH PROPOSED BUILDING ROOF DRAIN PIPE SIZE. CONTRACTOR SHALL INSTALL APPROPRIATE LID AS NOTED: INSTALL A SOLID LID FOR CLEANOUT (SDCO), FLAT GRATED LID FOR CATCH BASIN (SDCB) LOCATED IN TURF, AND ATRIUM GRATE FOR SDCB LOCATED IN PLANTER. SEE ARCHITECTURAL PLANS FOR TURF LOCATION AND LANDSCAPE DETAILS. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ROOF DRAIN CANNOT ACCOMMODATE CONNECTION. CONTRACTOR SHALL SET THE RIM ELEVATION TO FINISH GRADE AND ENSURE THAT NO PONDING OCCURS.
4. CONTRACTOR SHALL INSTALL CATCH BASIN. SEE DETAIL 3 ON SHEET C1.4 FOR INLETS AT VALLEY GUTTERS.
5. CONTRACTOR SHALL VERIFY THAT EXISTING STORM DRAINAGE PIPE IS CLASS IV OR HIGHER. CONTRACTOR SHALL REPLACE EXISTING PIPE WITH CLASS IV OR HIGHER IF FOUND ON THE FIELD NOT BE THE SPECIFIED CLASS. CONTRACTOR SHALL INSTALL CONCRETE CAP OVER THE PIPE PER DETAIL 14 ON SHEET C1.3.
6. CONTRACTOR SHALL CONNECT TO EXISTING STORM DRAIN PIPE AND/OR STRUCTURE PER CITY OF STOCKTON STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL EXCAVATE EXISTING STORM DRAIN PIPE TO VERIFY THE HORIZONTAL AND VERTICAL ALIGNMENT PRIOR TO THE INSTALLATION OF THE STORM DRAIN PIPE. CONTRACTOR SHALL INFORM THE ENGINEER IF THE ALIGNMENTS ARE DIFFERENT THAN SHOWN.
7. CONTRACTOR SHALL INSTALL NDS LANDSCAPE INLET AND UNDER THE SIDEWALK DRAIN PER CITY OF STOCKTON STANDARD DETAIL D-12. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR ALLOW WATER TO POND ADJACENT TO THE BUILDING.
8. CONTRACTOR SHALL CONNECT TO EXISTING WATER PIPE PER CITY OF STOCKTON STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL EXCAVATE EXISTING WATER PIPE TO VERIFY THE HORIZONTAL AND VERTICAL ALIGNMENT PRIOR TO THE INSTALLATION OF THE PROPOSED WATER PIPE. CONTRACTOR SHALL INFORM THE ENGINEER IF THE ALIGNMENTS ARE DIFFERENT THAN SHOWN.
9. CONTRACTOR SHALL INSTALL THE SALVAGED FIRE HYDRANT ASSEMBLY PER CITY OF STOCKTON DRAWING NO. W-13 AND MAINTAIN A MINIMUM OF A 3 FEET CLEAR SPACE. USE EXTREME CAUTION WHEN INSTALLING FOOTINGS TO AVOID UNDERGOUND UTILITIES. CONTRACTOR SHALL ENSURE THAT DEVICES ARE IN GOOD WORKING CONDITION PRIOR TO INSTALLATION AND REPLACE WITH NEW DEVICES IF FOUND TO BE DEFECTIVE.
10. CONTRACTOR SHALL INSTALL STORM DRAIN MANHOLE PER CITY OF STOCKTON STANDARD AND SPECIFICATIONS. SEE CITY OF STOCKTON DRAWING NO.S-12.
11. CONTRACTOR SHALL INSTALL NDS BUBBLE UP STRUCTURE WITH RIP-RAP MATERIAL TO PREVENT EROSION. SEE DETAIL 2 ON SHEET C1.4.
12. CONTRACTOR SHALL INSTALL CONCRETE CAP OVER ALL NEW PIPES WITH LESS THAN 2.5' OF COVER PER DETAIL 14 ON SHEET C1.3.
13. ALL AREAS INDICATED SHALL BE MARKED WITH RED CURB AND WHITE STENCILS "NO PARKING -FIRE LANE" INCLUDING THE PROPER SIGNAGE IN ACCORDANCE WITH THE REQUIREMENTS OF CITY OF STOCKTON AND THE FIRE DEPARTMENT. SEE DETAIL 10 ON SHEET C1.3 IN LIEU OF PAINTING "NO PARKING" RED CURB CONTRACTOR SHALL INSTALL "NO PARKING" SIGNAGE AS DIRECTED BY THE FIRE DEPARTMENT. "USE EXTREME CAUTION" WHEN INSTALLING POST AND FOOTINGS TO AVOID UNDERGROUND UTILITIES.
14. CONTRACTOR SHALL INSTALL RIP-RAP AT DISCHARGE POINT.

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COMPOSITE UTILITY PLAN

C5.1

EROSION CONTROL NOTES

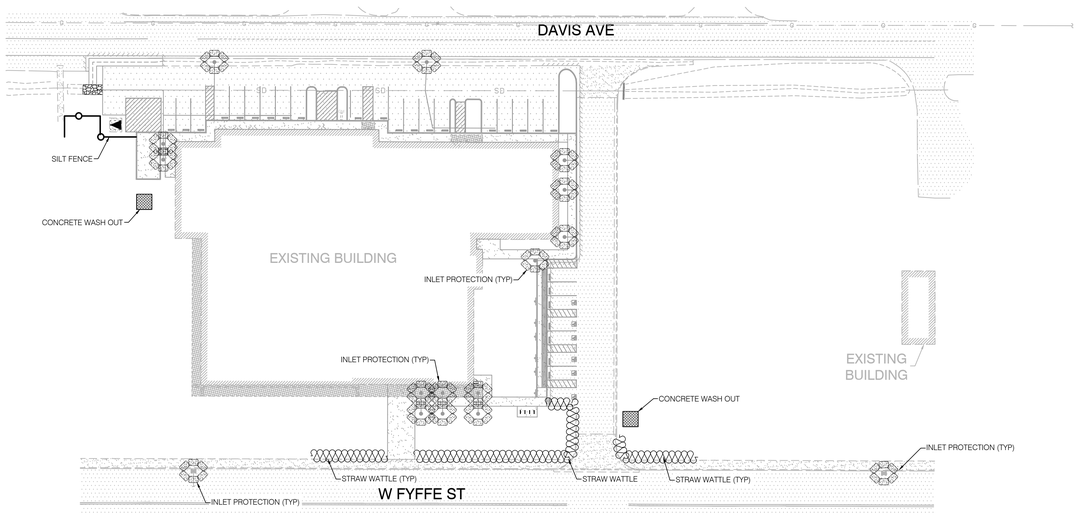
1. THESE PLANS DEPICT APPROPRIATE MEASURES TO CONTROL EROSION ON THE SITE TO BE GRADED AS SHOWN ON THE PLANS THE NATIVE VEGETATION WILL BE REMOVED ONLY FROM THOSE AREAS TO BE GRADED. AREAS OUTSIDE OF AND DOWNSLOPE OF THE LIMITS OF GRADING WILL BE PROTECTED FROM SILT LADEN RUNOFF BY PERIMETER SILT FENCES AS DEPICTED ON THIS PLAN. SLOPED AREAS WHICH HAVE BEEN STRIPPED OF VEGETATION AND NEW SLOPES OVER FOUR FEET HIGH CREATED DURING THE GRADING OPERATION WILL BE TRACKWALKED & HYDROSEEDED.
2. ALL EROSION SEDIMENT STRUCTURES SHALL BE INSPECTED AFTER EACH RAINSTORM AND SHALL BE CLEANED OUT AS NECESSARY.
3. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. THE LOCATION IS SHOWN ON THESE PLANS. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE ENTRANCE.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF EROSION CONTROL FOR THE LIFE OF THE PROJECT AND SHALL INSTALL AND MAINTAIN ANY DEVICES AND MEASURES NECESSARY TO THE SATISFACTION OF THE CITY ENGINEER, DURING CONSTRUCTION ACTIVITIES.
5. TO MINIMIZE EROSION OF GRADED BANKS, ALL GRADED BANKS AND STOCKPILE AREAS SHALL BE HYDROSEEDED, LANDSCAPED OR SEALED.
6. STRAW BALES, PIECES OF WOOD, FABRIC OR OTHER SUITABLE MATERIALS SHALL BE USED TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING ANY COMPLETED STORM DRAIN INLETS. THESE PROTECTION MEASURES SHALL BE MAINTAINED UNTIL THE PROJECT IS COMPLETED.
7. WHEN TEMPORARY STRUCTURES HAVE SERVED THEIR INTENDED PURPOSE AND THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, THE EMBANKMENT AND RESULTING SEDIMENT DEPOSITS ARE TO BE LEVELED OR OTHERWISE DISPOSED OF BY THE CONTRACTOR AS RECOMMENDED BY THE SOILS ENGINEER.
8. GRADED AREAS MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE SHALL BE DIRECTED TOWARDS DRAINAGE INLETS.
9. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THIS PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.
10. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR.
11. HYDROMULCHING OF SLOPES OVER 5' IN HEIGHT SHALL BE COMPLETED BETWEEN SEPTEMBER 1 AND OCTOBER 1 OF THE YEAR IN WHICH THEY ARE CONSTRUCTED OR IMMEDIATELY AFTER THEIR CONSTRUCTION IF THEY ARE COMPLETED AFTER OCTOBER 1ST. APPLICATION RATES SHALL BE AS FOLLOWS AS REQUIRED BY CITY OF STOCKTON:

HYDROSEED MIX: BOTANICAL NAME	(COMMON NAME)	MIN. % PURITY	MIN. % GERMINATION	LB/ACRE
ARISTIDA TERNIPES VAR. HAMULOSA	(THREE-AWN)	90%	85%	2
BROMUS CARINATUS	(CALIFORNIA BROME)	90%	85%	2
ELYMUS GLAUCUS	(BLUE WILD RYE)	90%	85%	4
ELYMUS TRACHYCAULUS SSP. TRACHYCAULUS	(SLENDER WHEATGRASS)	90%	85%	3
MELICA CALIFORNICA	(CALIFORNIA ONION GRASS)	90%	85%	2
MUHLENBERGIA RIGENS	(DEER GRASS)	90%	85%	4
NASSELLA LEPIDA	(FOOTHILL NEEDLEGRASS)	90%	85%	6
TRIFOLIUM HIRTUM	(HYKON' ROSE CLOVER)	90%	85%	10
CELLULOSE FIBER MULCH				2000
ORGANIC BINDER WITH HYDROSEED SLURRY				50
16-20-0-S FERTILIZER				300

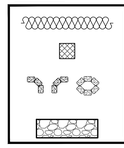
12. WHEN DIRECTED BY THE INSPECTOR, A 12-INCH BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS.
13. STAND-BY CREWS SHALL BE ALERTED BY THE PERMITTEE OR CONTRACTOR FOR EMERGENCY WORK DURING RAINSTORMS.
14. SEWER OR STORM DRAIN TRENCHES THAT DRAIN THROUGH BASIN DIKES SHALL BE PLUGGED WITH SANDBAGS FROM TOP OF PIPE TO TOP OF DIKE.
15. ALL UTILITY TRENCHES SHALL BE BLOCKED WHEN DIRECTED BY THE DESIGN ENGINEER AT THE PRESCRIBED INTERVALS FROM THE BOTTOM TO TOP WITH DOUBLE ROW OF SANDBAGS PRIOR TO BACKFILL. SANDBAGS ARE TO BE PLACED WITH ALTERNATE HEADER AND STRETCHER COURSES. THE INTERVALS PRESCRIBED BETWEEN SANDBAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT NOT TO EXCEED THE FOLLOWING:

GRADE OF GROUND SURFACE OR STREET	INTERVAL
LESS THAN 2%	AS REQUIRED
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER 10%	25 FEET

16. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED STREET AREAS AT THE INTERVALS INDICATED ABOVE. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF SANDBAGS, TIMBER, OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE INSPECTOR, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. EARTH DIKES MAY NOT BE USED AS VELOCITY CHECK DAMS.
17. AFTER SEWER AND UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHALD BE EXERCISED TO PROVIDE FOR CROSS-FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET. REMOVE ALL CHECK DAMS PRIOR TO BACKFILL.
18. TO CONTROL SEDIMENT ENTERING FIELD INLETS, PLACE TWO STRAW BALES IN THE CONCRETE V-DITCH AT THE SIDE OPENING OF THE FIELD INLET AT THE LOCATIONS SHOWN ON THIS PLAN.
19. EXCEPT AS OTHERWISE DIRECTED BY THE INSPECTOR, ALL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY OR WHEN DIRECTED BY THE INSPECTOR.
20. ALL BASINS AND CHECK DAMS SHALL HAVE BEEN PUMPED DRY, AND ALL DEBRIS AND SILT REMOVED WITHIN 24 HOURS AFTER EACH STORM.
21. SANDBAGS SHALL BE STOCKPILED ON-SITE, READY TO BE PLACED IN POSITION WHEN RAIN FORECAST IS 40% CHANCE OR GREATER
22. EXPOSED SLOPES SHALL BE PROTECTED BY VEGETATION COVER OR FABRIC COVER AS APPROVED BY THE CITY ENGINEER.
23. WHEN PAD ELEVATION OF ADJACENT LOTS OR ELEVATION BETWEEN STREET AND LOT ARE SEPARATED BY MORE THAN 6 FEET, A MINIMUM 12" BERM SHALL BE MAINTAINED ALONG THE PROPERTY LINE SEPARATING THE LOTS, AND THE BERM SHALL DIRECT THE WATER TO THE OUTLET. VELOCITY CHECK DAMS SHALL BE INSTALLED BETWEEN THE OUTLET ON THE LOT AND THE STREET.
24. ALL EROSION CONTROL MEASURES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE CASQA STORMWATER MANAGEMENT HANDBOOK.
25. ALL FINISHED PADS SHALL BE PROTECTED.
26. THE FOLLOWING PLANS ARE ACCURATE FOR EROSION CONTROL PURPOSES ONLY.
27. THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD. FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THIS PLAN.
28. NO ONSITE FUELING SHALL TAKE PLACE.
29. SEAL OR SKIRT BETWEEN TRAILER & GRADING TO PREVENT EXPOSURE TO DRAIN.
30. STRAW WATTLES INSTALLED ON A SLOPE SHALL CONFORM TO THE GUIDELINES SPECIFIED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM BEST MANAGEMENT PRACTICES.
31. EROSION RESISTANT VEGETATION SHOULD BE MAINTAINED ON THE FACE OF ALL SLOPES.
32. CONTRACTOR SHALL REFER TO THE PROJECT STORM WATER POLLUTION PLAN (SWPPP) FOR ALL PRE AND POST CONSTRUCTION EROSION CONTROL MEASURES AND BEST MANAGEMENT PRACTICES (BMPs).
33. ALL BASINS SHALL BE HYDROSEEDED IN ACCORDANCE TO THE PROJECT SWPPP.
34. CONTRACTOR SHALL INSTALL DRAIN INLET PROTECTION FOR ALL CATCH BASINS LOCATED IN THE VICINITY OF WORK. THIS INCLUDES ANY CATCH BASINS LOCATED IN THE PUBLIC RIGHT-OF-WAY, AS WELL AS ANY ONSITE CATCH BASINS.
35. CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT DEPOSIT SEDIMENT ON TO THE PUBLIC ROADWAY, SIDEWALKS AND GUTTERS.
36. CONTRACTOR SHALL USE STREET SWEEPING OR OTHER DRY SWEEPING METHODS, AS NECESSARY, TO REMOVE CONSTRUCTION RELATED SEDIMENT FROM PAVEMENT IN THE PROJECT AREA AND PROJECT ROADWAY.
37. CONTRACTOR SHALL SCHEDULE WORK FOR DRY WEATHER DAYS WHEN NO RAIN IS IN THE IMMEDIATE FORECAST.



LEGEND

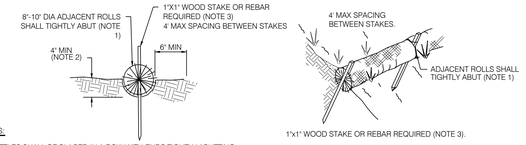


STRAW WATTLE (SEE DETAIL "E") TO BE PLACED AT ALL LOCATIONS SHOWN. STRAW WATTLES SHALL ALSO BE PLACED AT THE FRONT OF ANY LOT WHERE AN UNDERCUT IS NOT PRESENT.

CONCRETE WASHOUT AREA (SEE DETAIL "F")

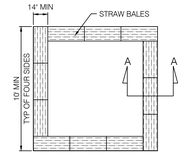
INLET PROTECTION (SEE DETAILS "A", "B", C, AND "D") SHALL BE PLACED AROUND ALL CATCH BASINS WITHIN THE PROJECT DRAINAGE LIMITS; INCLUDING BUT NOT LIMITED TO ALL LANDSCAPE DRAINAGE. ALSO, INLET PROTECTION SHALL BE PLACED AT THE FIRST INLET DOWNSTREAM FROM THE PROJECT SITE (ON EITHER DIRECTION).

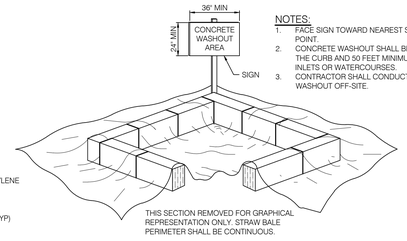
TEMPORARY STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL "G") TO BE DETERMINED BY CONTRACTOR IN FIELD.



NOTES:
1. WATTLES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING.
2. EACH WATTLE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES. AFTER CONSTRUCTION, CONTRACTOR TO REMOVE WATTLES AND FILL CAVITY.
3. WATTLES SHALL BE SECURELY ANCHORED IN PLACE BY TWO STAKES OR REBARS DRIVEN THROUGH THE WATTLES. THE FIRST STAKE IN EACH WATTLE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID WATTLE TO FORCE THE WATTLES TOGETHER.
4. THE DIKE SHALL BE INSPECTED AFTER EACH STORM, AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED. THE WATTLES SHALL BE REMOVED ONCE THEY HAVE SERVED THEIR PURPOSE SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

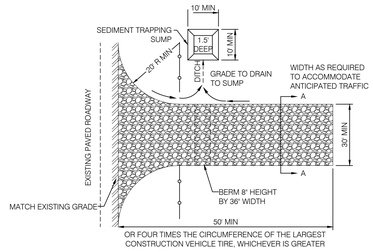
E STRAW WATTLE DETAIL
NTS





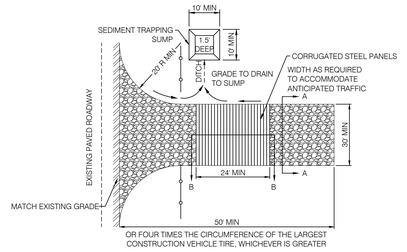
NOTES:
1. FACE SIGN TOWARD NEAREST STREET OR ACCESS POINT.
2. CONCRETE WASHOUT SHALL BE LOCATED BEHIND THE CURB AND 50 FEET MINIMUM FROM DRAINAGE INLETS OR WATERCOURSES.
3. CONTRACTOR SHALL CONDUCT ALL CONCRETE WASHOUT OFF-SITE.

F CONCRETE WASHOUT
NTS



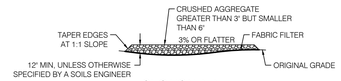
NOTE:
CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE

G1 PLAN (OPTION 1)
NTS

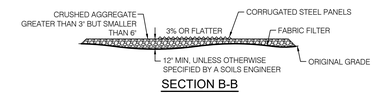


NOTE:
CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE

G2 PLAN (OPTION 2)
NTS



SECTION A-A
NTS

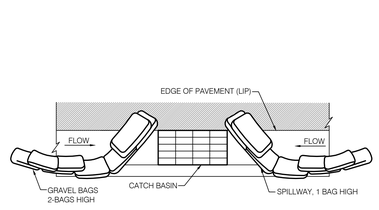


SECTION B-B
NTS

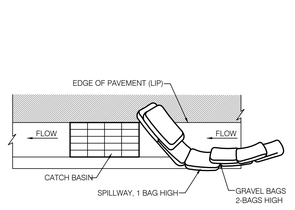
TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

DESIGN AND CONSTRUCTION SPECIFICATIONS:
1. THE TEMPORARY STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE PLANS AND SPECIFICATIONS OF THE LATEST EDITION OF THE CALIFORNIA STORMWATER HANDBOOK, DETAIL TC-1. WHERE THERE IS A DISCREPANCY BETWEEN THIS DETAIL AND THE CALIFORNIA STORMWATER HANDBOOK, THE HANDBOOK SHALL GOVERN.
2. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT EACH ENTRANCE TO THE PROJECT SITE AND SHALL BE CONSTRUCTED ON LEVEL GROUND.
3. THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 3 TO 6 INCH DIA. STONE.
4. THE THICKNESS FOR THE PAD SHALL NOT BE LESS THAN 12 INCHES OR AS RECOMMENDED BY SOILS ENGINEER.
5. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN 30 OR THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, WHICHEVER IS GREATER.
6. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.
8. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP, SEDIMENT BASIN, OR SEDIMENT SWALE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF GRAVEL BAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
9. CONTRACTOR TO REMOVE AND DISPOSE OF STABILIZED CONSTRUCTION ENTRANCE UPON COMPLETION OF CONSTRUCTION.
10. CONSTRUCTION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE 2003 CALIFORNIA STORMWATER BMP HANDBOOK.

G TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
NTS



A TYPICAL PROTECTION FOR INLET ON SUMP
NTS



B TYPICAL PROTECTION FOR INLET ON GRADE
NTS

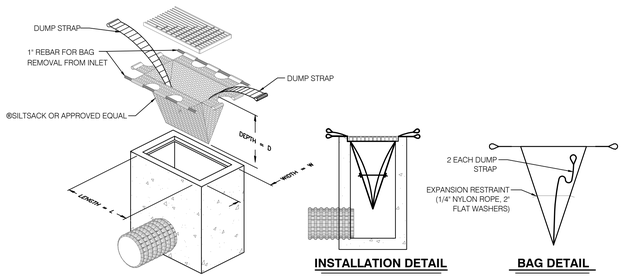
NOTES:
1. INTENDED FOR SHORT-TERM USE.
2. USE TO INHIBIT NON-STORM WATER FLOW.
3. ALLOW FOR PROPER MAINTENANCE AND CLEAN UP.
4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
5. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

DI PROTECTION TYPE 3 - GRAVEL BAG

THE GRAVEL BAG BARRIER (TYPE 3) IS SHOWN IN THE FIGURES. FLOW FROM A SEVERE STORM SHOULD NOT OVERTOP THE CURB. IN AREAS OF HIGH CLAY AND SILTS, USE FILTER FABRIC AND GRAVEL AS ADDITIONAL FILTER MEDIA. GRAVEL BAGS SHOULD BE USED DUE TO THEIR HIGH PERMEABILITY.

1. USE SAND BAG MADE OF GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH 0.75 IN. ROCK OR 0.25 IN. PEA GRAVEL.
2. CONSTRUCT ON GENTLY SLOPING STREET.
3. LEAVE ROOM UPSTREAM OF BARRIER FOR WATER TO POND AND SEDIMENT TO SETTLE.
4. PLACE SEVERAL LAYERS OF SAND BAGS - OVERLAPPING THE BAGS AND PACKING THEM TIGHTLY TOGETHER.
5. LEAVE GAP OF ONE BAG ON THE TOP ROW TO SERVE AS A SPILLWAY. FLOW FROM A SEVERE STORM (E.G., 10 YEAR STORM) SHOULD NOT OVERTOP THE CURB.
6. THIS DETAIL IS TO BE USED ON EXISTING STREETS WHERE SILTED FLOW IS TO BE INTERCEPTED (CAUGHT) PRIOR TO ENTERING THE STORM DRAIN SYSTEM. SANDBAGS CAN ALSO BE USED WHEN THE ROUGH GRADED STREETS HAVE POURED INPLACE CONCRETE SURROUNDING THE INLET TO CREATE A "FLOW LINE" WHERE A DAM CAN BE ACHIEVED TO PROTECT THE STORM SYSTEM FROM THE INFLOW OF SEDIMENT.

C DI PROTECTION - TYPE 3
NTS



D TYPICAL SILTSACK CONSTRUCTION
NTS

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	09.24.25	INITIAL SUBMITTAL
4	08.31.26	BID SET

EROSION CONTROL PLAN, NOTES, AND DETAILS

C6.1

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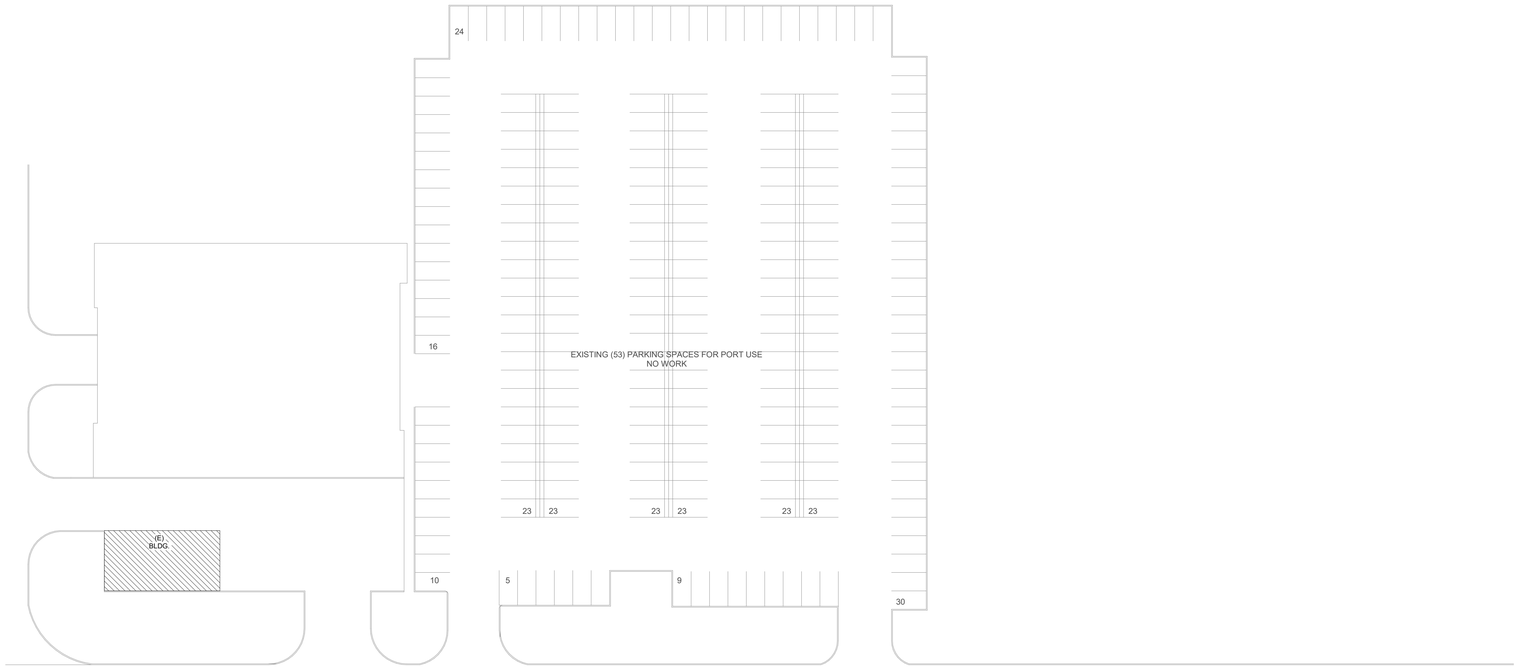

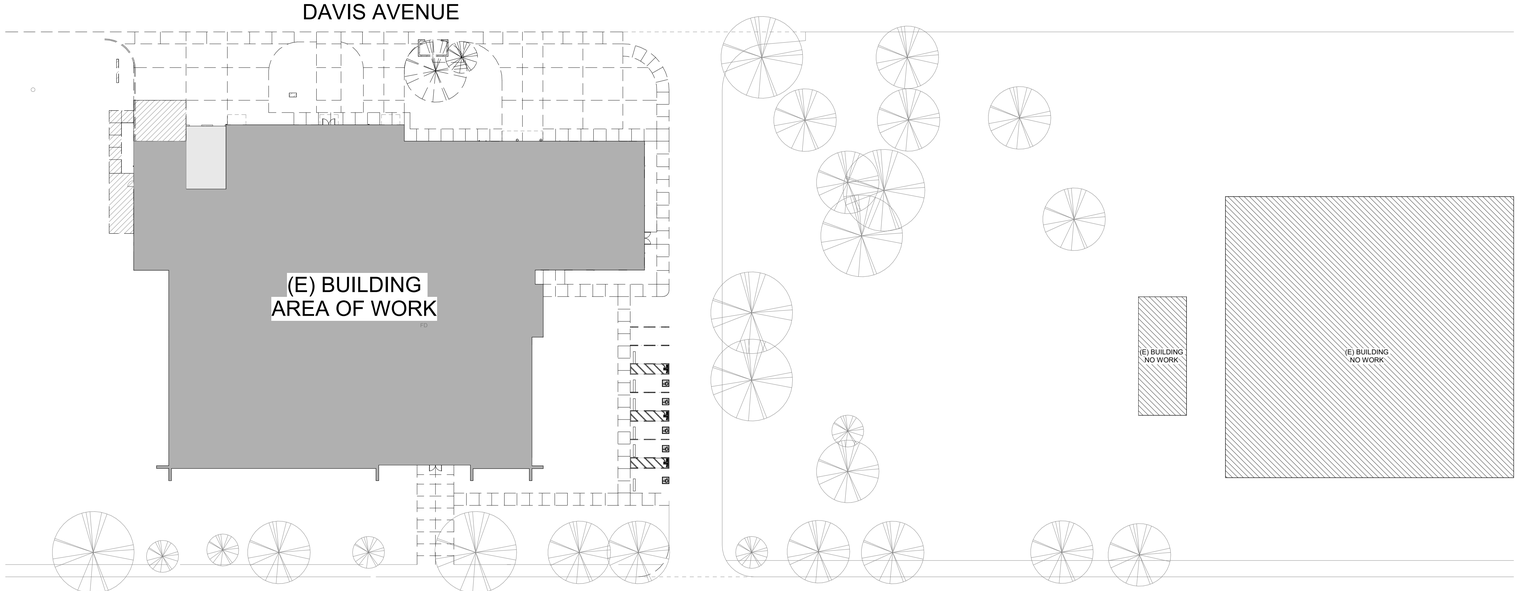

SITE PLAN - DEMOLITION - FOR REFERENCE

1" = 30'-0"

NOTE: DEMOLITION SITE PLAN PROVIDED FOR REFERENCE ONLY - SEE CIVIL PLANS FOR SITE DEMOLITION INFORMATION

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SITE PLAN - DEMOLITION

D1.1

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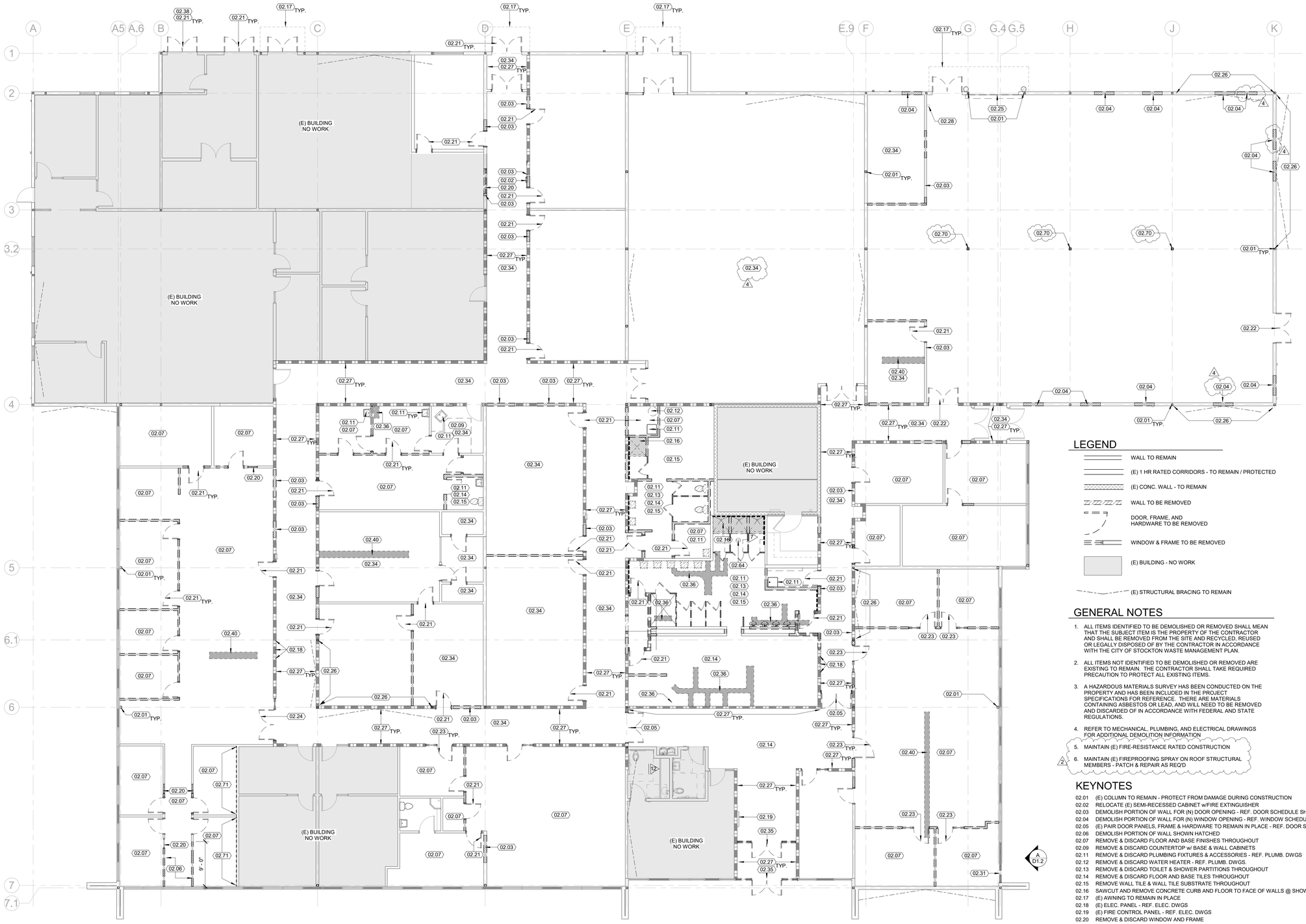
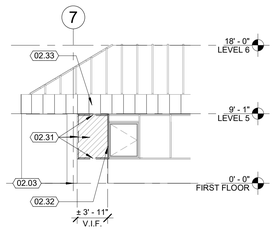


DEMOLITION PLAN
1/8" = 1'-0"



A DEMO @ EAST ELEVATION
1/8" = 1'-0"

LEGEND

- WALL TO REMAIN
- (E) 1 HR RATED CORRIDORS - TO REMAIN / PROTECTED
- (E) CONC. WALL - TO REMAIN
- WALL TO BE REMOVED
- DOOR, FRAME, AND HARDWARE TO BE REMOVED
- WINDOW & FRAME TO BE REMOVED
- (E) BUILDING - NO WORK
- (E) STRUCTURAL BRACING TO REMAIN

GENERAL NOTES

1. ALL ITEMS IDENTIFIED TO BE DEMOLISHED OR REMOVED SHALL MEAN THAT THE SUBJECT ITEM IS THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND RECYCLED, REUSED OR LEGALLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF STOCKTON WASTE MANAGEMENT PLAN.
2. ALL ITEMS NOT IDENTIFIED TO BE DEMOLISHED OR REMOVED ARE EXISTING TO REMAIN. THE CONTRACTOR SHALL TAKE REQUIRED PRECAUTION TO PROTECT ALL EXISTING ITEMS.
3. A HAZARDOUS MATERIALS SURVEY HAS BEEN CONDUCTED ON THE PROPERTY AND HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS FOR REFERENCE. THERE ARE MATERIALS CONTAINING ASBESTOS OR LEAD, AND WILL NEED TO BE REMOVED AND DISCARDED OF IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS.
4. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION
5. MAINTAIN (E) FIRE-RESISTANCE RATED CONSTRUCTION
6. MAINTAIN (E) FIREPROOFING SPRAY ON ROOF STRUCTURAL MEMBERS - PATCH & REPAIR AS REQ'D

KEYNOTES

02.01 (E) COLUMN TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION
02.02 RELOCATE (E) SEMI-RECESSED CABINET w/FIRE EXTINGUISHER
02.03 DEMOLISH PORTION OF WALL FOR (N) DOOR OPENING - REF. DOOR SCHEDULE SHEET A8.1
02.04 DEMOLISH PORTION OF WALL FOR (N) WINDOW OPENING - REF. WINDOW SCHEDULE SHEET A8.2
02.05 (E) PAIR DOOR PANELS, FRAME & HARDWARE TO REMAIN IN PLACE - REF. DOOR SCHEDULE SHEET A8.1
02.06 DEMOLISH PORTION OF WALL SHOWN HATCHED
02.07 REMOVE & DISCARD FLOOR AND BASE FINISHES THROUGHOUT
02.09 REMOVE & DISCARD COUNTERTOP w/ BASE & WALL CABINETS
02.11 REMOVE & DISCARD PLUMBING FIXTURES & ACCESSORIES - REF. PLUMB. DWGS
02.12 REMOVE & DISCARD WATER HEATER - REF. PLUMB. DWGS.
02.13 REMOVE & DISCARD TOILET & SHOWER PARTITIONS THROUGHOUT
02.14 REMOVE & DISCARD FLOOR AND BASE TILES THROUGHOUT
02.15 REMOVE WALL TILE & WALL TILE SUBSTRATE THROUGHOUT
02.16 SAWCUT AND REMOVE CONCRETE CURB AND FLOOR TO FACE OF WALLS @ SHOWER AREA - SHOWN HATCHED
02.17 (E) AWNING TO REMAIN IN PLACE
02.18 (E) ELEC. PANEL - REF. ELEC. DWGS
02.19 (E) FIRE CONTROL PANEL - REF. ELEC. DWGS
02.20 REMOVE & DISCARD WINDOW AND FRAME
02.21 REMOVE & DISCARD DOOR PANEL, FRAME & HARDWARE
02.22 REMOVE & DISCARD PAIR DOOR PANELS, FRAME & HARDWARE
02.23 REMOVE & DISCARD DOOR w/ SIDELIGHT, FRAME & HARDWARE
02.24 REMOVE & DISCARD PAIR DOORS w/ SIDELIGHT, FRAME & HARDWARE
02.25 REMOVE & DISCARD ROLL-UP DOOR, FRAME & HARDWARE
02.26 (E) WALL w/ (E) STRUCTURAL BRACING - PROTECT DURING CONSTRUCTION
02.27 REMOVE (E) VINYL WALL COVERING THROUGHOUT @ 1 HR. RATED WALLS - PROTECT GYP. BD. DURING REMOVAL - MAINTAIN WALL FIRE RATING
02.28 REMOVE & DISCARD (E) FIRE EXTINGUISHER
02.31 REMOVE & DISCARD PORTION OF (E) STORFRONT SYSTEM - REMOVE GLASS PANE w/HEADER & SILL MULLIONS - SEE A/D1.2
02.32 (E) VERTICAL MULLION TO REMAIN
02.33 (E) ROOF - NO WORK
02.34 (E) FLOORING TO REMAIN IN PLACE - REMOVE WALL BASE FINISHES
02.35 REMOVE & DISCARD STOREFRONT SYSTEM PAIR DOORS w/ TRANSOM WINDOW, FRAME & HARDWARE
02.36 SAWCUT, REMOVE, AND DISPOSE CONCRETE SLAB SHOWN HATCHED - REF. PLUMBING DWGS.
02.38 REMOVE & DISCARD (E) LOUVER
02.40 SAWCUT AND REMOVE CONCRETE SLAB SHOWN HATCHED - REF. ELEC. DWGS
02.64 (E) FLOOR DRAIN - REF. PLUMB. DWGS.
02.70 (E) COLUMN TO REMAIN IN PLACE - REMOVE (E) GYP. BD.
02.71 REMOVE (E) GYP. BD. AND REPLACE WALL INSULATION @ OFFICE G101 & G102 SIDE ONLY

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FLOOR PLAN - DEMOLITION

D1.2

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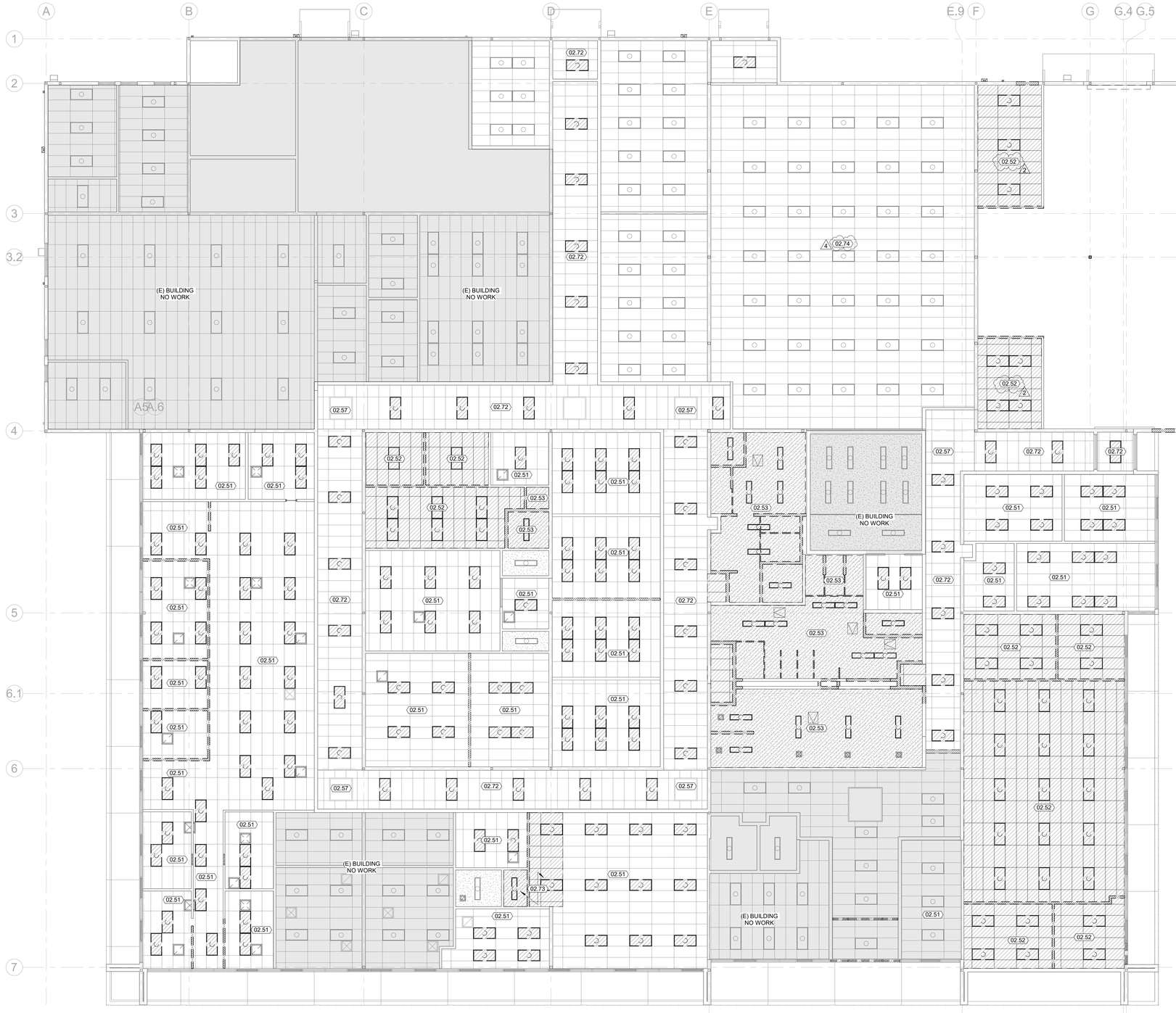

REFLECTED CEILING PLAN - DEMOLITION

1/8" = 1'-0"

LEGEND

- WALL TO REMAIN
- (E) 1 HR RATED CORRIDORS - TO REMAIN / PROTECTED
- (E) CONC. WALL - TO REMAIN
- WALL TO BE REMOVED
- DOOR, FRAME, AND HARDWARE TO BE REMOVED
- WINDOW & FRAME TO BE REMOVED
- (E) BUILDING - NO WORK
- (E) STRUCTURAL BRACING TO REMAIN

GENERAL NOTES

1. ALL ITEMS IDENTIFIED TO BE DEMOLISHED OR REMOVED SHALL MEAN THAT THE SUBJECT ITEM IS THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND RECYCLED, REUSED OR LEGALLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF STOCKTON WASTE MANAGEMENT PLAN.
2. ALL ITEMS NOT IDENTIFIED TO BE DEMOLISHED OR REMOVED ARE EXISTING TO REMAIN. THE CONTRACTOR SHALL TAKE REQUIRED PRECAUTION TO PROTECT ALL EXISTING ITEMS.
3. A HAZARDOUS MATERIALS SURVEY HAS BEEN CONDUCTED ON THE PROPERTY AND HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS FOR REFERENCE. THERE ARE MATERIALS CONTAINING ASBESTOS OR LEAD, AND WILL NEED TO BE REMOVED AND DISCARDED OF IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS.
4. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION
5. MAINTAIN (E) FIRE-RESISTANCE RATED CONSTRUCTION
6. MAINTAIN (E) FIREPROOFING SPRAY ON ROOF STRUCTURAL MEMBERS - PATCH & REPAIR AS REQ'D

KEYNOTES

02.51 (E) T-BAR GRID CEILING TO REMAIN - REMOVE & DISCARD (E) GRID TILES
02.52 REMOVE & DISCARD T-BAR GRID CEILING AND GRID TILES
02.53 REMOVE & DISCARD GYP. BD. CLG. & CLG. FRAMING
02.57 (E) LIGHT WELL OPENING TO REMAIN
02.72 (E) FIRE RATED T-BAR GRID CEILING TO REMAIN - REMOVE & DISCARD (E) GRID TILES. MAINTAIN (E) FIRE RATING
02.73 REMOVE (E) CEILING GYP. BD. AND REMOVE PART OF (E) T-BAR CEILING GRID AS REQ'D. TO INSTALL (N) FRAMED CEILING AT (N) STORAGE ROOM REF. A9.1
02.74 IF ALTERNATE BID (1) IS ACCEPTED AND EXISTING (AC-5) CEILING IS REPLACED-(E) T-BAR GRID CEILING TO REMAIN - REMOVE & DISCARD (E) GRID TILES

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REFLECTED CEILING PLAN - DEMOLITION

D1.3

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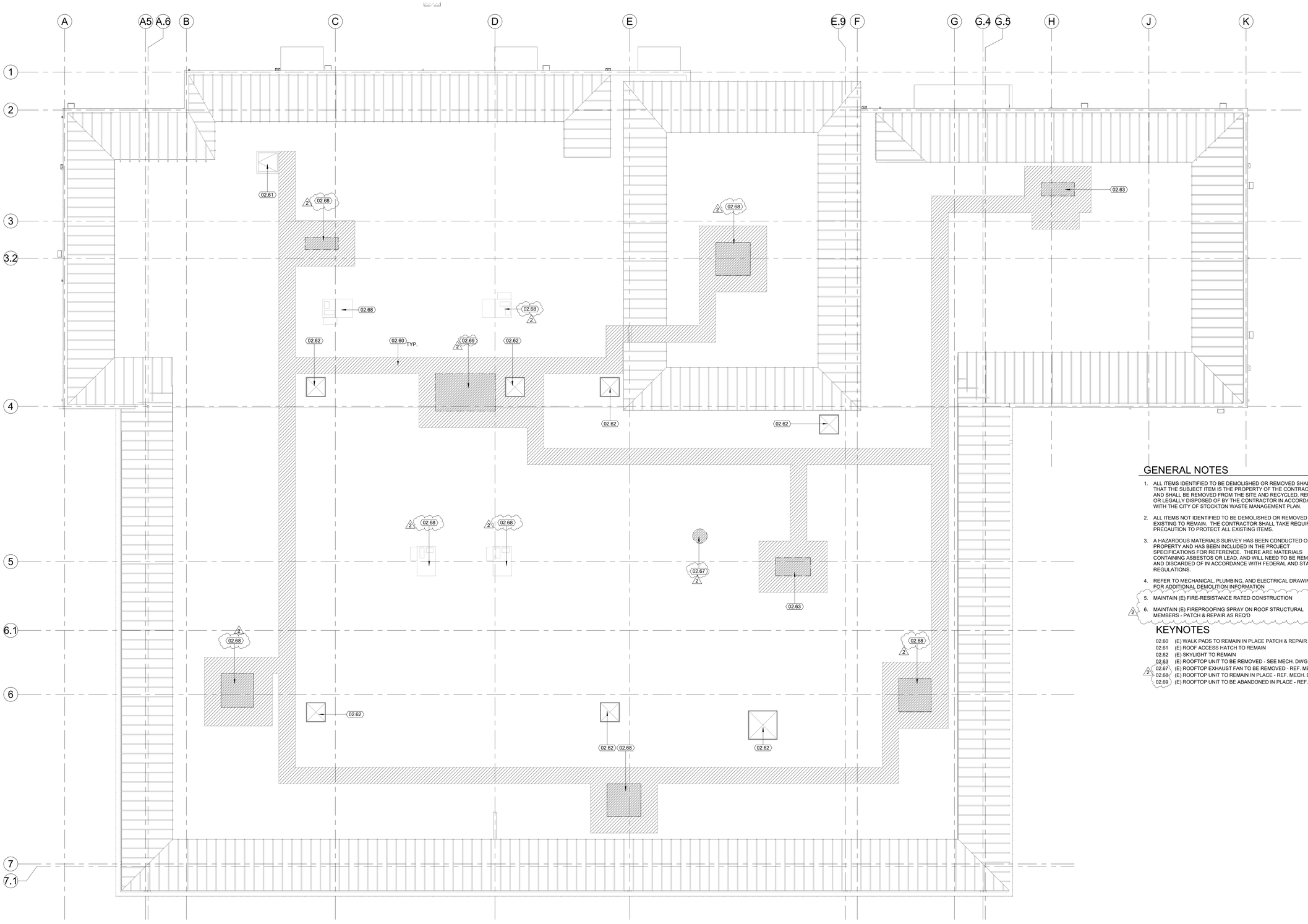

DEMOLITION ROOF PLAN

1/8" = 1'-0"

NOTE: SEE MECH. DWGS. FOR MORE DEMO WORK

GENERAL NOTES

1. ALL ITEMS IDENTIFIED TO BE DEMOLISHED OR REMOVED SHALL MEAN THAT THE SUBJECT ITEM IS THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND RECYCLED, REUSED OR LEGALLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF STOCKTON WASTE MANAGEMENT PLAN.
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3. A HAZARDOUS MATERIALS SURVEY HAS BEEN CONDUCTED ON THE PROPERTY AND HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS FOR REFERENCE. THERE ARE MATERIALS CONTAINING ASBESTOS OR LEAD, AND WILL NEED TO BE REMOVED AND DISCARDED OF IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS.
4. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION
5. MAINTAIN (E) FIRE-RESISTANCE RATED CONSTRUCTION
6. MAINTAIN (E) FIREPROOFING SPRAY ON ROOF STRUCTURAL MEMBERS - PATCH & REPAIR AS REQ'D

KEYNOTES

02.60 (E) WALK PADS TO REMAIN IN PLACE PATCH & REPAIR AS REQ'D.
02.61 (E) ROOF ACCESS HATCH TO REMAIN
02.62 (E) SKYLIGHT TO REMAIN
02.63 (E) ROOFTOP UNIT TO BE REMOVED - SEE MECH. DWGS.
02.67 (E) ROOFTOP EXHAUST FAN TO BE REMOVED - REF. MECH. DWGS.
02.68 (E) ROOFTOP UNIT TO REMAIN IN PLACE - REF. MECH. DWGS.
02.69 (E) ROOFTOP UNIT TO BE ABANDONED IN PLACE - REF. MECH. DWGS.

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Building 315 Alteration - Phase (2)

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LICENSED ARCHITECT — STATE OF CALIFORNIA

PUBLISH HISTORY:

No.	DATE	PURPOSE
	10.08.25	INITIAL SUBMITTAL
1	10.29.25	COORDINATION
2	12.12.25	PLAN CHECK #1
3	02.12.26	PLAN CHECK #2
4	08.31.26	BID SET

ROOF PLAN - DEMOLITION

D1.4

[redacted]

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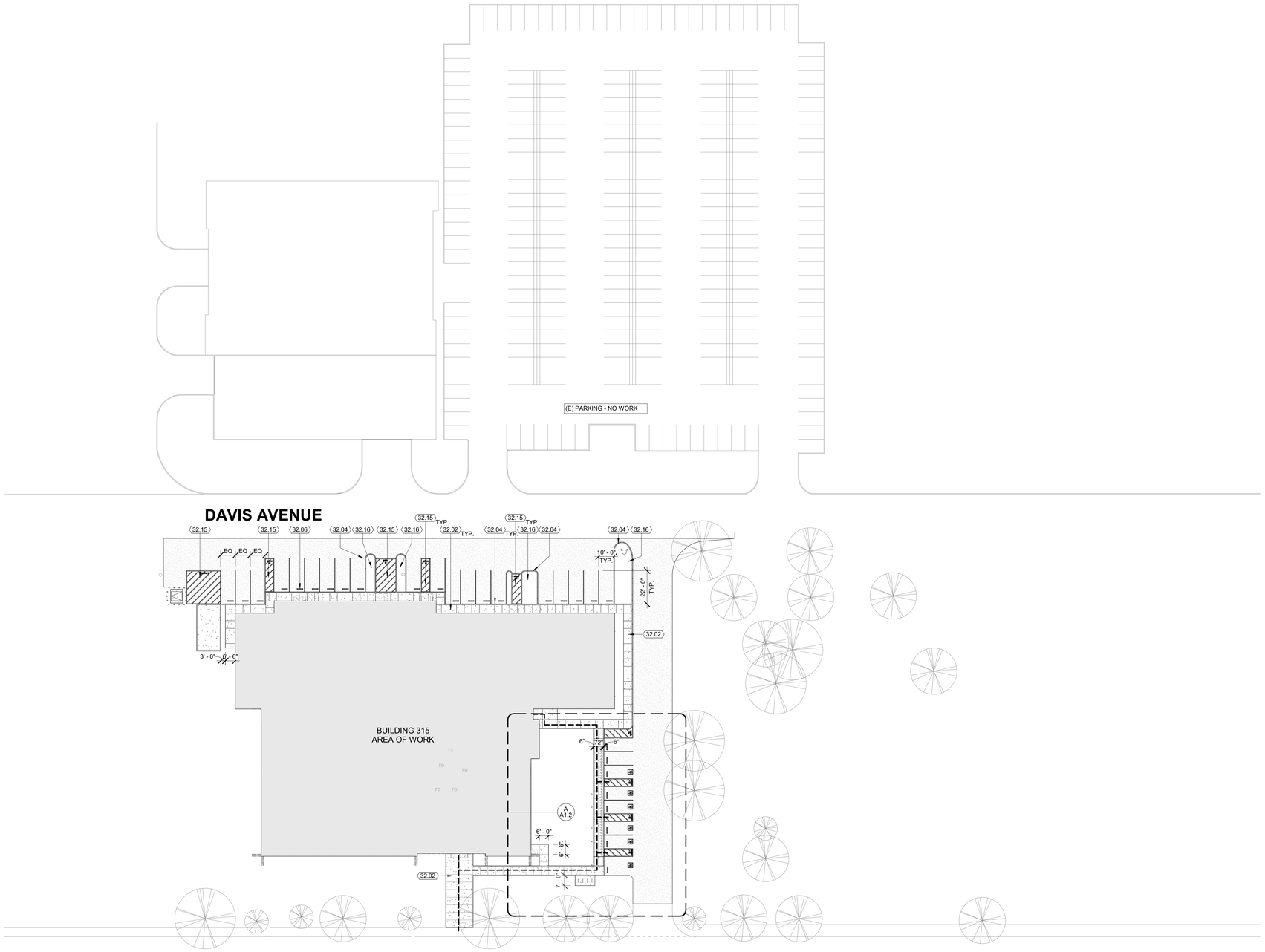

SITE PLAN - IMPROVEMENT

1" = 30'-0"

LEGEND

(N) ASPHALT PAVING - REF. CIVIL DWGS.

(N) CONCRETE PAVING w/ CONTROL JOINTS @ 5' - 0" O.C., U.O.N.REF. CIVIL DWGS. & DETAILS G / A1.2
CONFIRM TO CITY OF STOCKTON STANDARD FINE LIGHT BROOM FINISH CONCRETE.

ACCESSIBLE PEDESTRIAN ROUTE:
MIN. WIDTH = 48"
MAX. SURFACE SLOPES:
CROSS SLOPE = 1:48" MAX.
SLOPE IN DIRECTION OF TRAVEL = 1:20 MAX.
RUNNING SLOPE ON RAMPS AND CURB RAMPS = 1:12 MAX.
NO VERTICAL OFFSETS IN EXCESS OF 1/4"

GENERAL NOTES

1. REFER TO CIVIL, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL IMPROVEMENT INFORMATION

PARKING CALCULATION

REQ'D. PARKING SPACES - 4 SPACES PER 1000S.F.	136 SPACES
(E) PARKING SPACES[1]	186 SAPCE[1] 8 SPACE[2]
TOTAL PROVIDED (E) PARKING SPACES	194 SAPCE
REQ'D. ACCESSIBLE SPACES (CBC 11B-208.2)	6 ACC. (2)
PROVIDED ACCESSIBLE SPACES (CBC 11B-208.2)	1 ACC. VAN 5 ACC. 6 TOTAL ACC. SPACES
EV CHARGING SPACES: (CALGREEN 5.106.5.3)*	N.A.
REQUIRED SHORT TERM BICYCLE PARKING: (CALGREEN 5.106.4.1.1)*	N.A. (2)
PROVIDED SHORT TERM BICYCLE PARKING	8 SPACES

* CALCULATION IS BASED ON PARKING SPACES PER CALGREEN REQUIREMENT.

1. (E) PARKING LOT @ NORTH SIDE OF THE BUILDING SERVES AS SHARED PARKING LOT FOR MULTIPLE BUILDINGS.
2. (E) PARKING SPACES @ EAST SIDE OF THE BUILDING
3. (N) PERKING SPACES ARE ADDED PER OWNER REQUEST

KEYNOTES

32.02 CONCRETE SIDEWALK w/ CONTROL JTS. @ 5'-0" O.C. MAX, U.O.N. - REF. CIVIL DWGS
32.04 6" VERTICAL CONCRETE CURB - REF. CIVIL DWGS.
32.06 PRECAST CONCRETE WHEEL STOP - REF. CIVIL
32.15 ACCESS AISLE w/ 4" WHITE BOARDER w/ 4" WHITE STRIPING & WHITE STALL IDENTIFICATION STRIPING w/ 12" HIGH LETTERS: "NO PARKING"
32.16 (N) LANDSCAPE PLANTER

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5 SPACES

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SITE PLAN

A1.1

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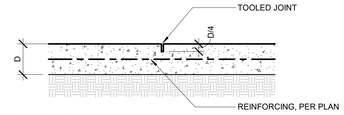
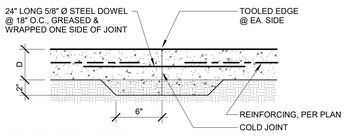


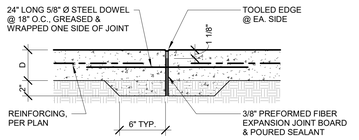
CONTROL JOINT

PROVIDE CONTROL JOINTS AS INDICATED ON SITE PLAN



CONSTRUCTION JOINT

TYP. AT SEPARATE CONCRETE POURS - LOCATION AS DETERMINED BY CONTRACTOR

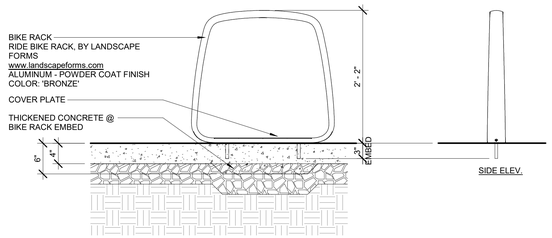


EXPANSION JOINT

EXPANSION JOINTS LOCATED MAXIMUM 150' ON CENTER OR AS INDICATED ON SITE PLAN, AND AT RETURNS, LIGHT POLES, HYDRANTS, CATCH BASINS, BOTH SIDES OF DRIVEWAYS, AND OTHER FIXED OBJECTS

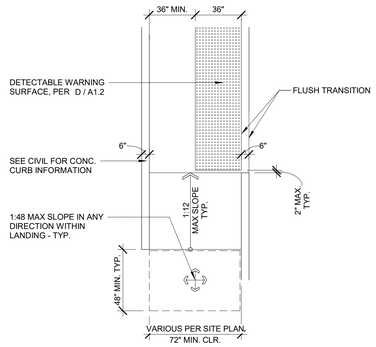
G 01_19 CONCRETE PAVEMENT JOINTS

1 1/2" = 1'-0"



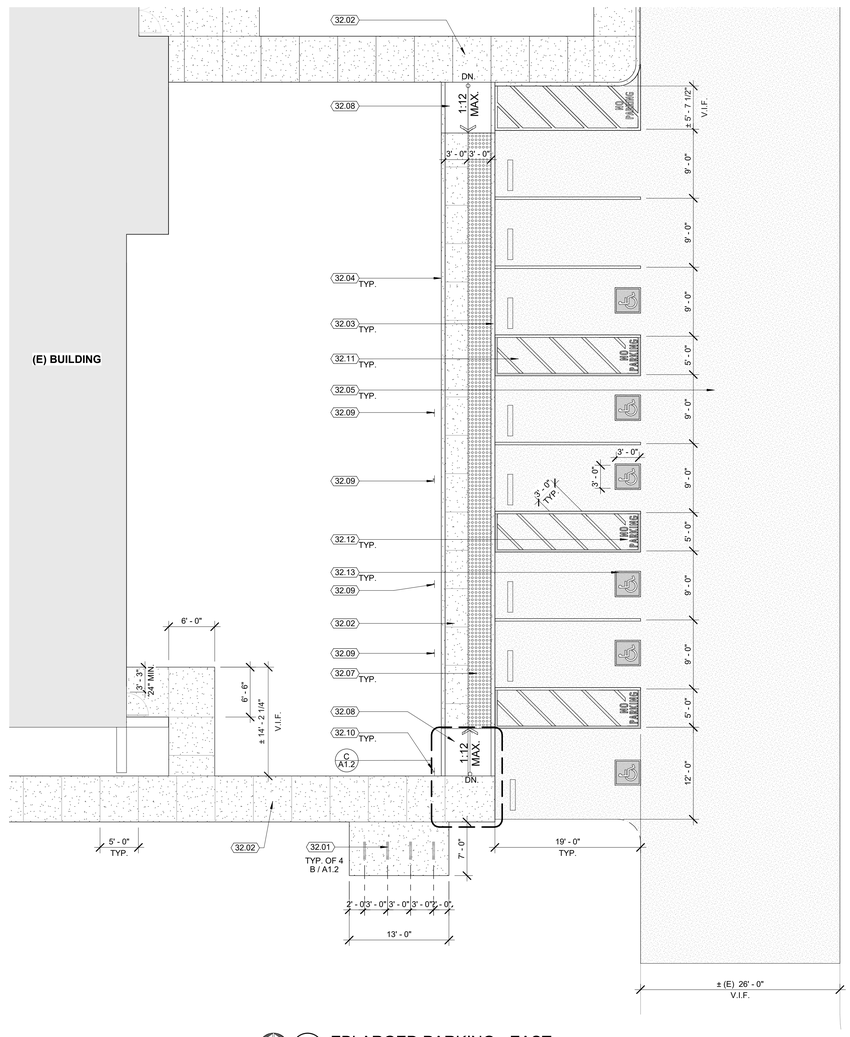
B BIKE RACK

1" = 1'-0"



C PARALLEL CURB RAMP @ CONCRETE WALK - TYP.

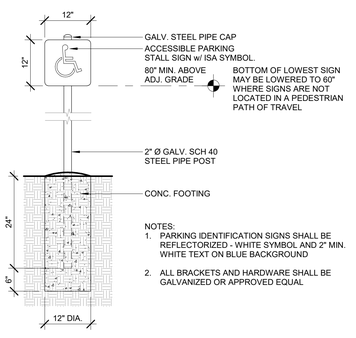
1/4" = 1'-0"



A EBLARGED PARKING - EAST

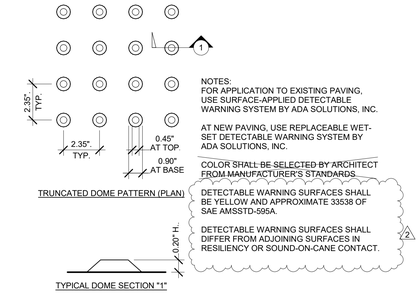
1/8" = 1'-0"

NOTE:
SURFACE SHALL BE MAXIMUM 2% SLOPE IN ANY DIRECTION WITHIN ACCESSIBLE PARKING STALLS AND ACCESS AISLE.- REF.CIVIL DWGS.



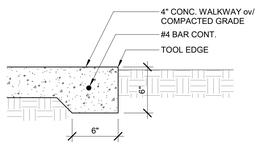
H ACCESS STALL SIGN

3/4" = 1'-0"



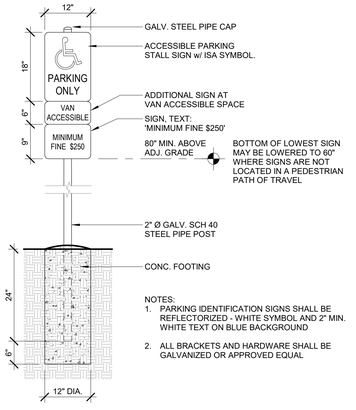
D DETECTABLE WARNING - TYP.

3" = 1'-0"



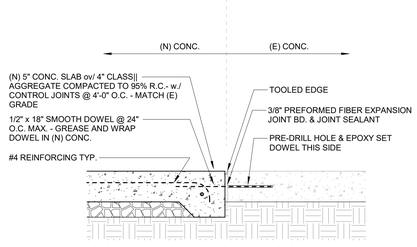
E EDGE OF CONCRETE WALK

1 1/2" = 1'-0"



J ACCESS PARKING STALL SIGN

3/4" = 1'-0"



F NEW CONC. @ EXISTING CONC.

1 1/2" = 1'-0"

KEYNOTES

32.01	BIKE RACK - 5 BIKE MIN. REF. B/A1.2
32.02	CONCRETE SIDEWALK w/ CONTROL JTS. @ 5'-0" O.C. MAX, U.O.N. - REF. CIVIL DWGS
32.03	FLUSH CURB - REF. CIVIL DWGS.
32.04	6" VERTICAL CONCRETE CURB - REF. CIVIL DWGS.
32.05	A.C. PAVING - REF. CIVIL DWGS.
32.07	DETECTABLE WARNING SURFACE - DTL. D/A1.2
32.08	PARALLEL CURB RAMP - REF. C/A1.2
32.09	POST-MTD. ACCESS. STALL SIGNAGE CENTERED ON STALL SEE DTL. 1/A1.2 2
32.10	POST-MTD. ACCESS. STALL SIGNAGE CENTERED ON STALL INCLUDE VAN ACCESSIBLE SIGN. SEE DTL. 1/A1.2 2
32.11	ACCESS AISLE w/ 4" BLUE BOARDER w/ 4" WHITE STRIPING
32.12	WHITE STALL IDENTIFICATION STRIPING w/ 12" HIGH LETTERS: "NO PARKING"
32.13	PAINTED I.S.A. SURFACE IDENTIFICATION TYP. WHITE WHEELCHAIR OCCUPANT AND BOARDER w/ 36" MIN. SQUARE BLUE BACKGROUND REF. CBC FIG.11B-703-7.2.132

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ENLARGED SITE PLAN

A1.2

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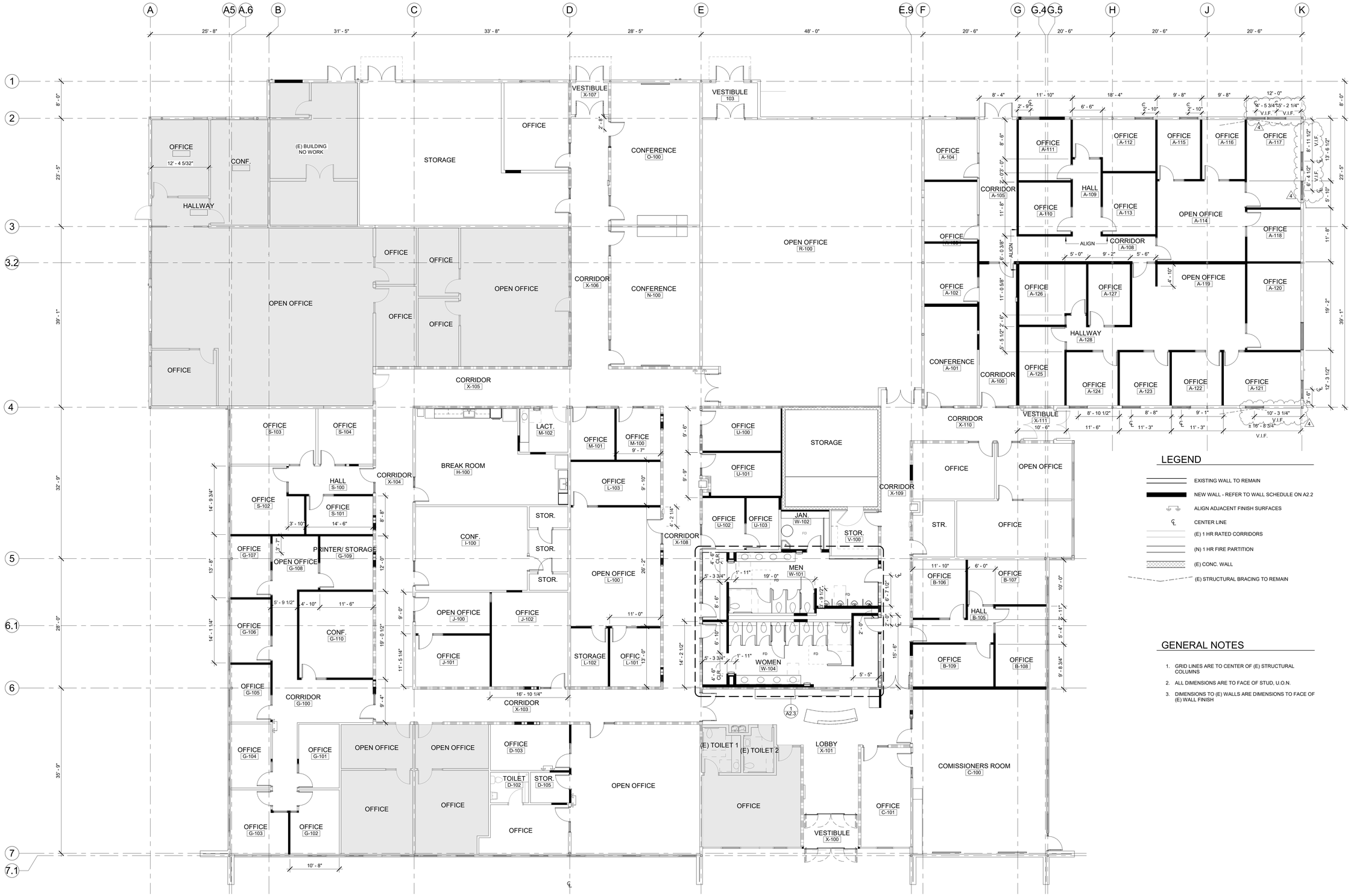

DIMENSION PLAN

1/8" = 1'-0"

LEGEND

- EXISTING WALL TO REMAIN
- NEW WALL - REFER TO WALL SCHEDULE ON A2.2
- ALIGN ADJACENT FINISH SURFACES
- CENTER LINE
- (E) 1 HR RATED CORRIDORS
- (N) 1 HR FIRE PARTITION
- (E) CONC. WALL
- (E) STRUCTURAL BRACING TO REMAIN

GENERAL NOTES

1. GRID LINES ARE TO CENTER OF (E) STRUCTURAL COLUMNS
2. ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
3. DIMENSIONS TO (E) WALLS ARE DIMENSIONS TO FACE OF (E) WALL FINISH

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FLOOR PLAN - DIMENSION

A2.1

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EXTERIOR WALL SCHEDULE

NO.	CORE	CORE INSUL.	CONTINUOUS INSUL.	WEATHER BARRIER	EXTENT	FINISH		F.R.	DETAILS		COMMENTS
						INT.	EXT.		HEAD	SILL	
X1	MATCH (E) STUDS SIZE & SPACING	MATCH (E)	MATCH (E)	MATCH (E)	INFILL OPENING	MATCH (E) 5/8" TYP. 'X' GYP. BD.	MATCH (E) EXTERIOR FINISH SYSTEM & COLOR min. 7/8"	1 HR.	1/A6.1	2/A6.1	-

INTERIOR WALL-PARTITION SCHEDULE

NO.	CORE	INSUL.	WALLBOARD	EXTENT	DETAILS		F.R.	STC
					HEAD	SILL		
1	20 GA. 3-5/8" MTL. STUDS @ 16" O.C.	ACOUST. F.G. BATT.	(1) LAYER 5/8" GYP. BD. EA. SIDE	FRAMING & WALLBOARD TO 6" ABOVE CLG.	C/A6.1	C/A6.1		-
2	20 GA. 6" MTL. STUDS @ 16" O.C.	ACOUST. F.G. BATT.	(1) LAYER 5/8" GYP. BD. @ EXPOSED SIDE	(N) WALLBOARD TO 6" ABOVE CLG.	C/A6.1	C/A6.1	-	-
3	MATCH (E) STUDS SIZE & SPACING	MATCH (E)	(1) LAYER 5/8" TYPE 'X' GYP. BD. BOTH SIDES - MATCH (E) CORRIDOR WALL RATING	INFILL OPENING	F/A6.1	F/A6.1	1 HR. UL U419	-
4	MATCH (E) STUDS SIZE & SPACING	MATCH (E)	(1) LAYER 5/8" GYP. BD. BOTH SIDES	INFILL OPENING		C/A6.1	-	-
5	20 GA. 6" MTL. STUDS @ 16" O.C.	ACOUST. F.G. BATT.	(1) LAYER 5/8" GYP. BD. BOTH SIDES	(N) WALLBOARD TO 6" ABOVE CLG.	C/A6.1	C/A6.1	-	-
6	MATCH (E) STUDS SIZE & SPACING	ACOUST. F.G. BATT.	(1) LAYER 5/8" GYP. BD. BOTH SIDES	INFILL OPENING		C/A6.1		-
7	20 GA. 2 1/2" MTL. STUDS @ 16" O.C.	ACOUST. F.G. BATT.	(1) LAYER 5/8" GYP. BD. @ EXPOSED SIDE	(N) WALLBOARD TO 6" ABOVE CLG.	C/A6.1	C/A6.1		-
8	MATCH (E) STUDS SIZE & SPACING	MATCH (E)	(1) LAYER 5/8" TYPE 'X' GYP. BD. BOTH SIDES - MATCH (E) CORRIDOR WALL RATING	CORE, INSULATION, & WALLBOARD CONTINUOUS TO UNDER SIDE OF (E) ROOF DECK	F/A6.1	F/A6.1	1 HR. UL U419	-

NOTE:

1. PROVIDE MOISTURE-RESISTANT GYP. BD. AT ALL WET LOCATIONS AND/OR TO RECEIVE WALL TILE - REF. FINISH SCHEDULE & INTERIOR ELEVATIONS.
2. PROVIDE BACKERBOARD AT ALL WALL TILES
3. ALL PIPES & CONDUIT PENETRATIONS THOUGH RATED WALL ASSEMBLIES SHALL BE PROTECTED

OFFICE
CONF.
NO WORK
HALLWAY
STORAGE
P-101
OFFICE
P-100
CONFERENCE
O-100
OPEN OFFICE
R-100
VESTIBULE
X-107
VESTIBULE
103
R-102
OFFICE
OPEN OFFICE
NO WORK
CORRIDOR
X-106
CONFERENCE
N-100
CORRIDOR
X-105
CORRIDOR
X-104
CORRIDOR
X-100
CORRIDOR
X-103
CORRIDOR
X-108
CORRIDOR
X-109
CORRIDOR
X-110
OFFICE
S-103
OFFICE
S-104
HALL
S-100
OFFICE
S-102
OFFICE
S-101
BREAK ROOM
H-100
LACT
M-102
OFFICE
M-101
OFFICE
M-100
OFFICE
L-103
STOR.
I-102
CONF.
I-100
STOR.
101
STOR.
I-103
OPEN OFFICE
L-100
OFFICE
J-102
OFFICE
J-101
STORAGE
L-102
OFFICE
L-101
OFFICE
U-100
OFFICE
U-101
OFFICE
U-102
OFFICE
U-103
STORAGE
NO WORK
JAN.
W-102
MEN
W-101
WOMEN
W-104
LOBBY
X-101
(E) TOILET 1
(E) TOILET 2
OFFICE
NO WORK
OFFICE
A-104
OFFICE
A-111
OFFICE
A-112
OFFICE
A-115
OFFICE
A-116
OFFICE
A-117
HALL
A-109
OFFICE
A-110
OFFICE
A-113
OPEN OFFICE
A-114
OFFICE
A-118
OFFICE
A-103
CORRIDOR
A-105
CORRIDOR
A-108
OFFICE
A-102
OFFICE
A-120
OFFICE
A-127
OPEN OFFICE
A-119
OFFICE
A-120
CONFERENCE
A-101
HALLWAY
A-128
CORRIDOR
A-100
OFFICE
A-125
OFFICE
A-124
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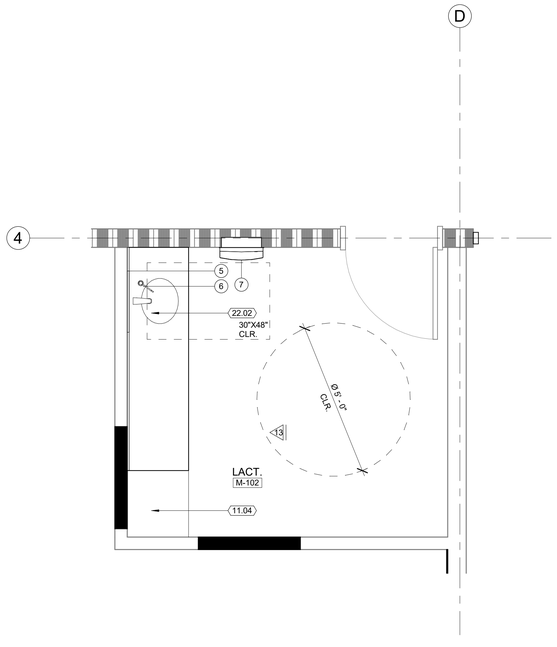
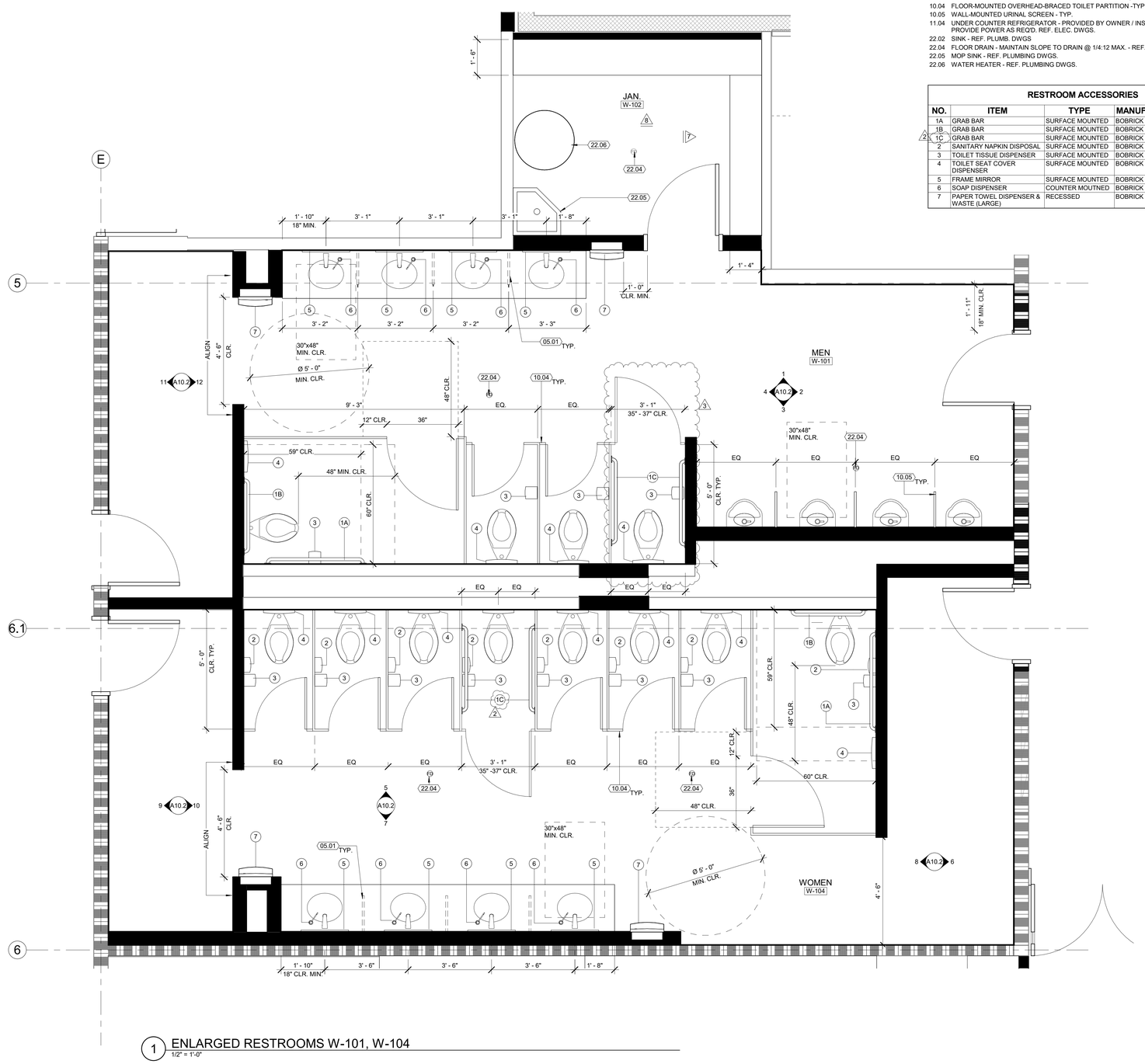
A-123
OFFICE
A-122
OFFICE
A-121
OFFICE
B-100
OPEN OFFICE
B-101
OFFICE
B-102
STR.
B-104
OFFICE
B-106
OFFICE
B-107
HALL
B-105
OFFICE
B-109
OFFICE
B-108
OFFICE
B-109
COMISSIONERS ROOM
C-100
OFFICE
C-101
OFFICE
G-106
OFFICE
G-107
OPEN OFFICE
G-108
PRINTER/ STORAGE
G-109
CONF.
G-110
OFFICE
G-105
CORRIDOR
G-100
OFFICE
G-104
OFFICE
G-101
OFFICE
G-103
OFFICE
G-102
OPEN OFFICE
OPEN OFFICE
OFFICE
D-103
TOILET
D-102
STOR.
D-105
OFFICE
D-101
OPEN OFFICE
D-100
OFFICE
NO WORK
OFFICE
OFFICE
OFFICE



2 ENLARGED PLAN - LACTATION M-102
1/2" = 1'-0"



1 ENLARGED RESTROOMS W-101, W-104
1/2" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET T3.2 FOR MOUNTING HEIGHTS, CLEARANCES, AND ADDITIONAL REQUIREMENTS FOR ACCESSIBILITY
2. PROVIDE ADEQUATE WALL BLOCKING FOR WALL-MOUNTED ACCESSORIES PER DETAIL A / A6.1
3. DIMENSIONS SHOWN ARE TO FACE OF FINISH, U.O.N.

LEGEND

(1) TOILET ACCESSORY
(A) SPECIALITY EQUIPMENT

KEYNOTES

05.01 CONCEALED STEEL ANGLE COUNTER SUPPORT BRACKET, TYP.
10.04 FLOOR-MOUNTED OVERHEAD-BRACED TOILET PARTITION -TYP.
10.05 WALL-MOUNTED URINAL SCREEN - TYP.
11.04 UNDER COUNTER REFRIGERATOR - PROVIDED BY OWNER / INSTALLED BY OWNER - PROVIDE POWER AS REQ'D. REF. ELEC. DWGS.
22.02 SINK - REF. PLUMB. DWGS
22.04 FLOOR DRAIN - MAINTAIN SLOPE TO DRAIN @ 1/4:12 MAX. - REF. PLUMBING DWGS.
22.05 MOP SINK - REF. PLUMBING DWGS.
22.06 WATER HEATER - REF. PLUMBING DWGS.

RESTROOM ACCESSORIES

NO.	ITEM	TYPE	MANUFACTURER	MODEL
1A	GRAB BAR	SURFACE MOUNTED	BOBRICK	B-6806 x 48
1B	GRAB BAR	SURFACE MOUNTED	BOBRICK	B-6806 x 36
1C	GRAB BAR	SURFACE MOUNTED	BOBRICK	B-6806 x 42
2	SANITARY NAPKIN DISPOSAL	SURFACE MOUNTED	BOBRICK	B-270
3	TOILET TISSUE DISPENSER	SURFACE MOUNTED	BOBRICK	B-4288
4	TOILET SEAT COVER DISPENSER	SURFACE MOUNTED	BOBRICK	B-4221
5	FRAME MIRROR	SURFACE MOUNTED	BOBRICK	B-165 2436
6	SOAP DISPENSER	COUNTER MOUTNED	BOBRICK	B-82216
7	PAPER TOWEL DISPENSER & WASTE (LARGE)	RECESSED	BOBRICK	B-43944

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3	02.12.26	PLAN CHECK #2
4	08.31.26	BID SET

ENLARGED FLOOR PLANS

A2.3

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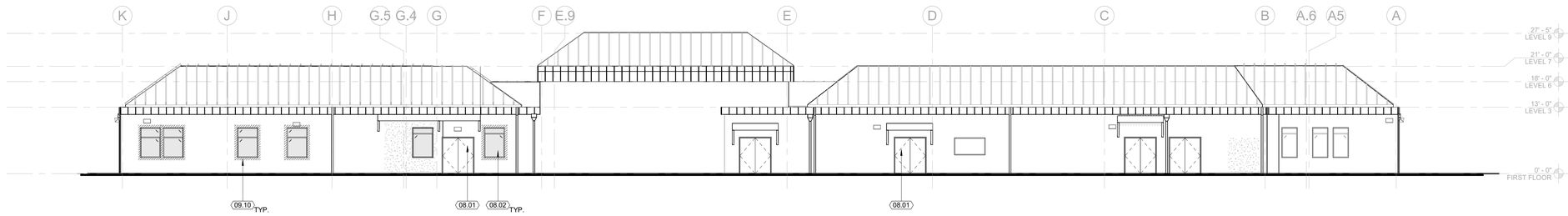
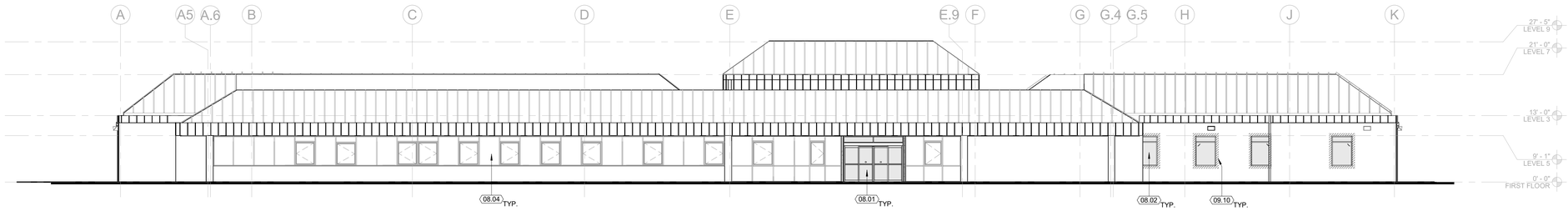
KEYNOTES

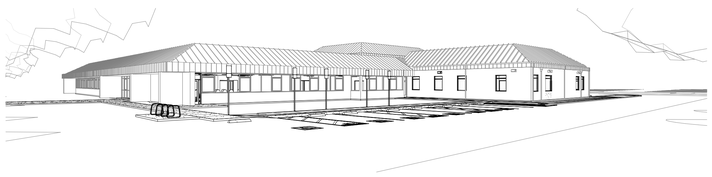
08.01 DOOR PER PLAN & SCHEDULE
08.02 WINDOW PER PLAN & SCHEDULE
08.04 (E) STORFRONT SYSTEM TO REMIAN
09.10 PATCH & REPAIR STUCCO, UNIFORM SURFACE AS REQ'D. @ NEW WINDOW OPENINGS TO MATCH (E) - PAINT



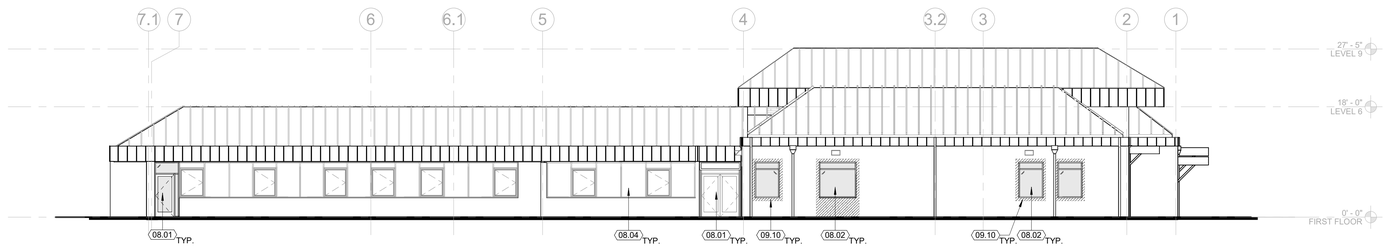
NORTH ELEVATION
1" = 10'-0"



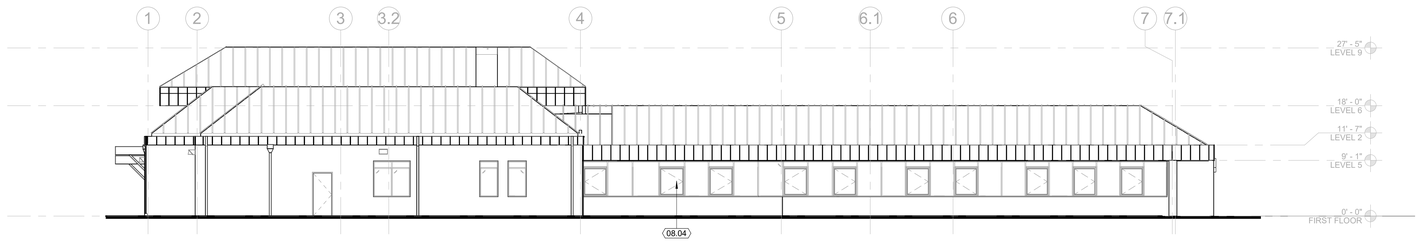
SOUTH ELEVATION
1" = 10'-0"



3D VIEW - EXTERIOR



EAST ELEVATION
1" = 10'-0"



WEST ELEVATION
1" = 10'-0"

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Building 315 Alteration - Phase (2)
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Stockton, CA 95203

WMB Project No. 19-095

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LICENSED ARCHITECT — JAMES R. WHITE — No. C-29XXX — STATE OF CALIFORNIA

PUBLISH HISTORY:

No.	DATE	PURPOSE
	10.08.25	INITIAL SUBMITTAL
1	10.29.25	COORDINATION
2	12.12.25	PLAN CHECK #1
3	02.12.26	PLAN CHECK #2
4	08.31.26	BID SET

EXTERIOR ELEVATIONS

A3.1

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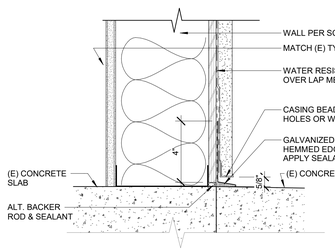
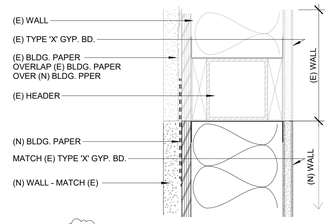
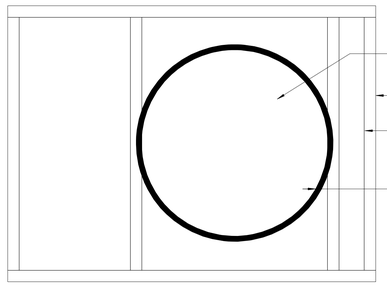


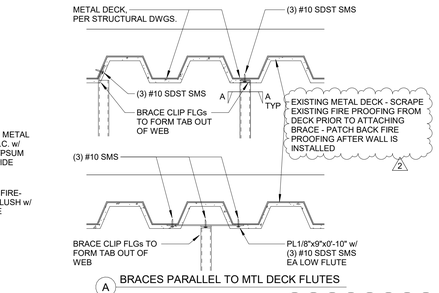
2 PLASTER WEEP SCREED @ (E) CONC. SIDEWALK
2 3" = 1'-0"



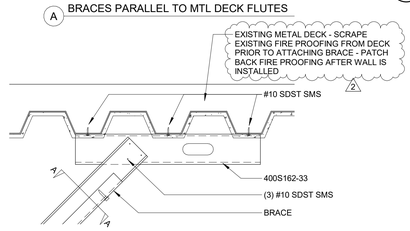
2 1 EXTERIOR WALL INFILL
2 3" = 1'-0"



K DUCT PENETRATION THRU WALL
1 1/2" = 1'-0"

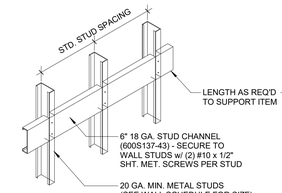


A BRACES PARALLEL TO MTL DECK FLUTES

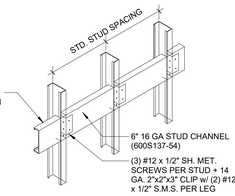


B BRACES PERP TO MTL DECK FLUTES

E METAL STUD BRACES @ MTL DECK
1 1/2" = 1'-0"

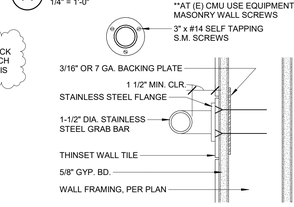


TYPE A
FOR TOILET ACCESSORIES, BASE CABINETS, WALL GUARDS, ETC. USE #10 OR #12 SELF-TAPPING SHT. MET. SCREWS.



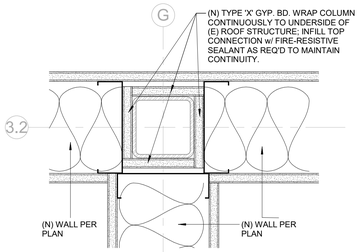
TYPE B
FOR GRAB BARS, WALL HUNG CABINETS, WALL HUNG EQUIP. USE #14 SELF-TAPPING SHT. MET. SCREWS

A TYP. BACKING PLATES
1/4" = 1'-0"

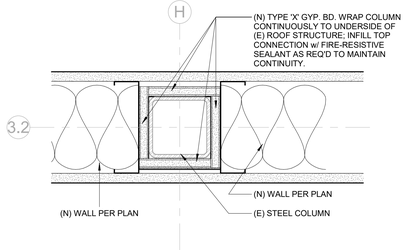


NOTE: GRAB BAR MOUNTING PLATE & WALL SHALL BE FREE OF ANY ABRASIVE ELEMENTS

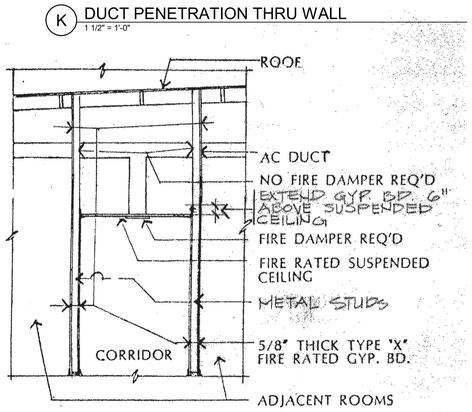
B GRAB BAR ATTACHMENT
3" = 1'-0"



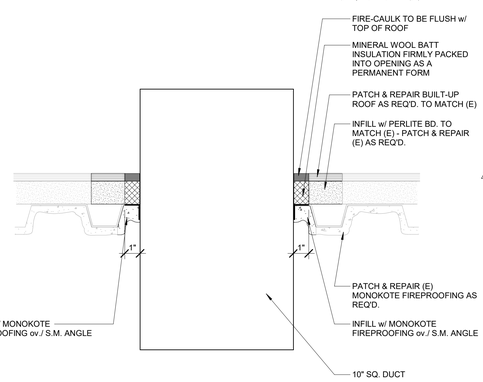
4 NOTATION PLAN - Callout 2
2 3" = 1'-0"



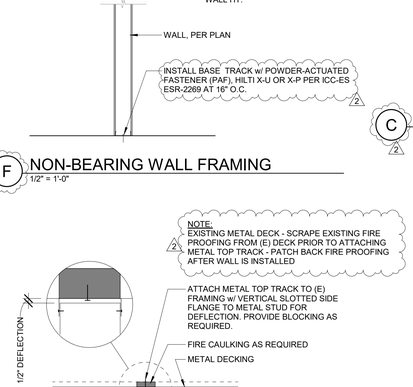
3 NOTATION PLAN - Callout 1
2 3" = 1'-0"



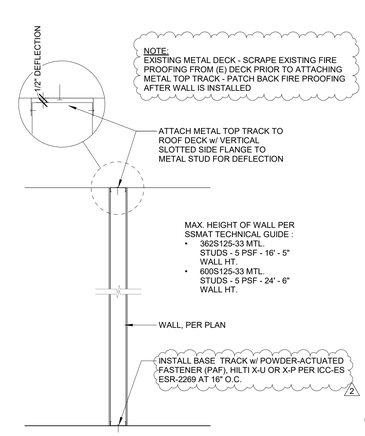
L (E) 1 HR. FIRE RATED CORRIDORS
(E) DETAIL FOR REFERENCE.



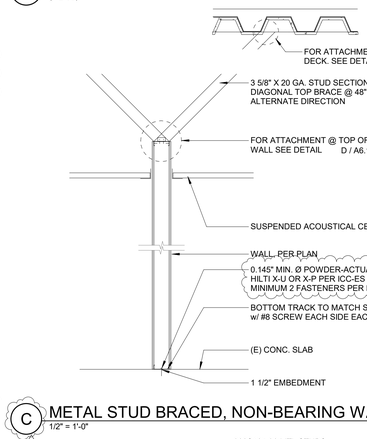
M DUCT PENETRATION THRU ROOF
3" = 1'-0"
REF. MECHANICAL DWGS. FOR MORE INFORMATION
2



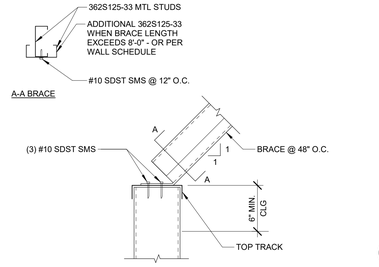
H 1-HR PARTITION #UL419
1/2" = 1'-0"



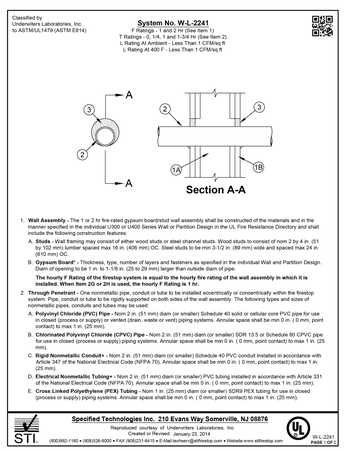
F NON-BEARING WALL FRAMING
1/2" = 1'-0"



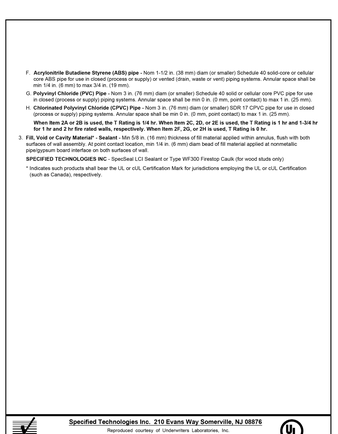
C METAL STUD BRACED, NON-BEARING WALL PARTITION @ MTL DECK
1/2" = 1'-0"

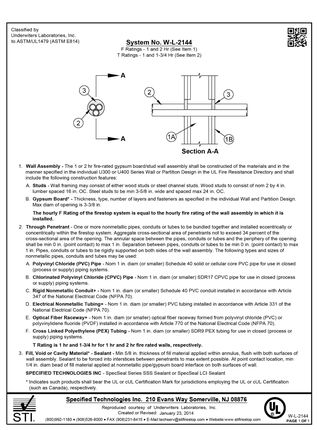


D METAL STUD BRACES @ TOP OF WALL
3/4" = 1'-0"

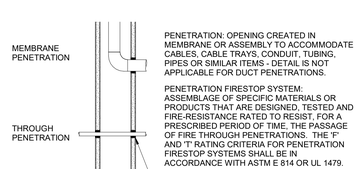


P PLASTIC PIPE - WALL - W-L-2241
12" = 1'-0"

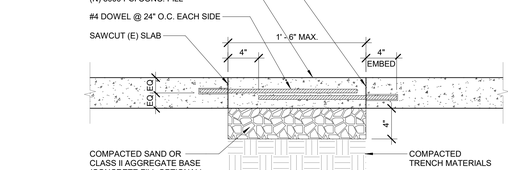




N PLASTIC PIPE - WALL - W-L-2144
12" = 1'-0"



J PROTECTION OF PENETRATIONS
1 1/2" = 1'-0"



G SLAB REPAIR
1 1/2" = 1'-0"

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Port of Stockton
Building 315 Alteration - Phase (2)
315 Fyffe Ave.
Stockton, CA 95203

WMB Project No. 19-095

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PUBLISH HISTORY:

No.	DATE	PURPOSE
	10.08.25	INITIAL SUBMITTAL
1	10.29.25	COORDINATION
2	12.12.25	PLAN CHECK #1
3	02.12.26	PLAN CHECK #2
4	08.31.26	BID SET

DETAILS

A6.1

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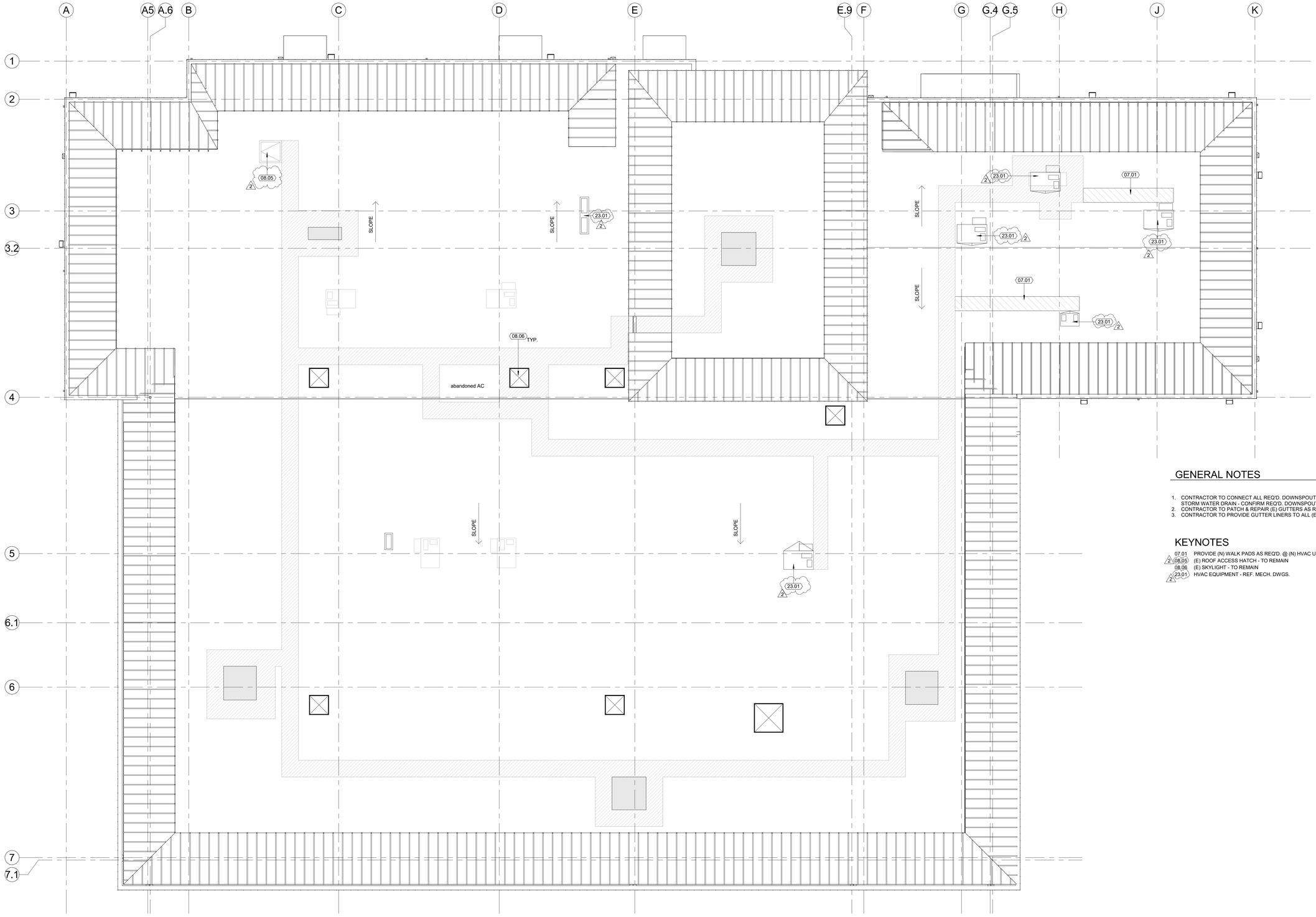

ROOF PLAN

1/8" = 1'-0"

NOTE: REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR MORE INFORMATION.

GENERAL NOTES

1. CONTRACTOR TO CONNECT ALL REQ'D. DOWNSPOUTS TO (E) STORM WATER DRAIN - CONFIRM REQ'D. DOWNSPOUTS w/ PORT.
2. CONTRACTOR TO PATCH & REPAIR (E) GUTTERS AS REQ'D.
3. CONTRACTOR TO PROVIDE GUTTER LINERS TO ALL (E) GUTTERS.

KEYNOTES

07.01 PROVIDE (N) WALK PADS AS REQ'D. @ (N) HVAC UNITS
2 08.05 (E) ROOF ACCESS HATCH - TO REMAIN
08.06 (E) SKYLIGHT - TO REMAIN
2 23.01 HVAC EQUIPMENT - REF. MECH. DWGS.

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ROOF PLAN

A7.1

[redacted]

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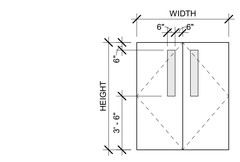
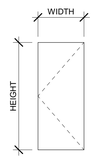
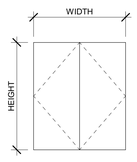
DOOR TYPES



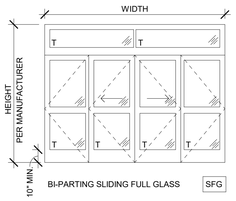
PN PAIR NARROW LITE



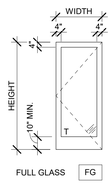
FLUSH F



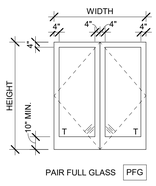
PAIR FLUSH PF



BI-PARTING SLIDING FULL GLASS SFG



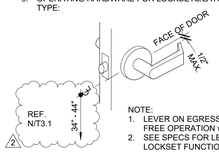
FULL GLASS FG



PAIR FULL GLASS PFG

GENERAL NOTES

1. MAXIMUM VERTICAL OFFSET AT DOOR THRESHOLD SHALL BE 1/4" VERTICAL OR 1/2" IF BEVELED - REFER TO THRESHOLD DETAIL(S).
2. ALL DOORS THAT ARE PART OF THE MEANS OF EGRESS SHALL BE EQUIPPED WITH HARDWARE THAT OPENS THE DOOR FROM THE INTERIOR WITHOUT SPECIAL KNOWLEDGE, EFFORT, OR A KEY.
3. MAXIMUM DOOR OPENING EFFORT SHALL BE 5# AT NON-RATED DOORS AND 15# AT FIRE RATED DOORS.
4. ALL FIRE RATED DOORS SHALL BE SELF-CLOSING, SELF-LATCHING, LISTED AND LABELED BY TESTING AGENCY, AND SHALL HAVE SMOKE SEALS. EXIT DEVICES ON FIRE RATED DOORS SHALL BE FIRE RATED WITHOUT DOGGING CAPABILITY.
5. SEE SPECIFICATIONS FOR DOOR HARDWARE SETS AND PRODUCTS.
6. ALL GLASS IN DOOR PANELS TO BE TEMPERED.
7. REFER TO A8.2 FOR GLASS TYPE DEFINITIONS.
   A. ALL GLAZING MATERIAL IN FIRE RATED DOOR ASSEMBLIES SHALL BE TESTED IN ACCORDANCE WITH NFPA 257 OR UL 9, INCLUDING THE HOSE STREAM TEST (GLAZING IN 20-MINUTE FIRE DOOR ASSEMBLIES SHALL BE EXEMPT FROM THE HOSE STREAM TEST).
8. SCHEDULED DETAILS REFER TO DETAILS ON THIS SHEET U.O.N.
9. OPERATING HARDWARE FOR LOCKSETS/LATCHSETS SHALL BE LEVER TYPE.



NOTE:
1. LEVER ON EGRESS SIDE SHALL PROVIDE FREE OPERATION w/o USE OF KEY
2. SEE SPECS FOR LEVER TYPE AND LOCKSET FUNCTION

GLAZING LEGEND

G1 - 1" INSULATED DUAL-PANE GLASS
EXT PANE - 1/4" CLEAR w/ PPG SOLARBAN 70XL LOW-E (2)
AIR GAP - 1/2"
INT. PANE - 1/4" CLEAR

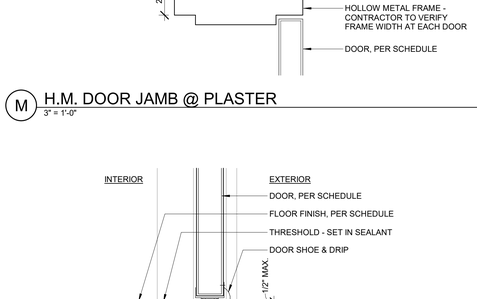
G2 - 1/4" SINGLE PANE GLASS

G3 - SUPERLITE I-XL 20, BY SAFTIFIRST
LABELED 'D-H' FOR USE IN FIRE RATED DOOR ASSEMBELIES

T - DENOTES TEMPERED GLASS AT HAZARDOUS LOCATIONS

DOOR SCHEDULE

NO.	HDWR SET	SIZE WIDTH	SIZE HEIGHT	PANEL TYPE	PANEL THK	PANEL MATERIAL	PANEL GLASS	PANEL FINISH	PANEL COLOR	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	FIRE RATING	DETAILS HEAD	DETAILS JAMB	DETAILS JAMB	DETAILS THD.	COMMENTS
A-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
A-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
A-102		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-103		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-104		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-105		6' - 0"	7' - 0"	PF	1 3/4"	H.M.	-	PAINT	P2	H.M.	PAINT	P2		L/A8.1	M/A6.1	M/A6.1	N/A8.1	
A-106		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-110		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-111		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	D/A8.1		
A-112		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-113		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-114		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-115		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-116		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-117		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-118		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-119		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-120		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-121		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-122		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-123		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-124		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-125		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
A-126		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	D/A8.1		
A-127		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
B-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
B-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
B-102		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
B-104		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	D/A8.1		
B-105		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	D/A8.1		
B-106		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
B-107		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
B-108		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
B-109		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
C-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
C-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	D/A8.1		
C-102		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
C-103		3' - 0"	7' - 0"	FG	1 3/4"	ALUM./GLASS	G1	P.F.	MATCH (E)	ALUM. SF.	P.F.	MATCH (E)	-	A/A8.1	-	-	B/A8.1	
D-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
D-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
D-102		3' - 0"	7' - 0"	F	1 3/4"	(E)	-	(E)	(E)	(E)	(E)	(E)	-					
D-103		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
D-105		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	D/A8.1		
G-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
G-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
G-102		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	D/A8.1		
G-103		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	D/A8.1		
G-104		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
G-105		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
G-106		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
G-107		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
G-109		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
G-110		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
H-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1	K/A8.1	
I-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
I-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	D/A8.1		
I-102		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	D/A8.1		
I-103		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	D/A8.1		
J-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
J-102		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
J-103		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
L-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
L-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
L-102		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	D/A8.1		
L-103		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
M-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
M-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
M-102		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	D/A8.1		
N-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
N-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
O-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
O-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
P-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
P-101		6' - 0"	7' - 0"	PF	1 3/4"	H.M.	-	PAINT	P2	H.M.	PAINT	P2		L/A8.1	M/A6.1	M/A6.1	N/A8.1	
P-101.1		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
R-100		6' - 0"	7' - 0"	PN	1 3/4"	WOOD/GLASS	G3	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1			
R-101		6' - 0"	7' - 0"	PN	1 3/4"	WOOD/GLASS	G3	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.					
R-102		6' - 0"	7' - 0"	PN	1 3/4"	H.M.	G2	PAINT		H.M.	PAINT		-	L/A8.1	M/A6.1	M/A6.1		
R-103		6' - 0"	7' - 0"	PF	1 3/4"	H.M.	-	PAINT	P2	H.M.	PAINT	P2		L/A8.1	M/A6.1	M/A6.1		
S-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
S-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
S-102		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
S-103		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
S-104		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
U-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
U-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
U-102		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	C/A8.1		
U-103		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	C/A8.1		
U-107		6' - 0"	7' - 0"	PF	1 3/4"	H.M.	-	PAINT	P2	H.M.	PAINT	P2		L/A8.1	M/A6.1	M/A6.1	N/A8.1	
U-107.1		3' - 0"	7' - 0"	F	1 3/4"	(E)	-	(E)	(E)	(E)	(E)	(E)	-					
U-111		6' - 0"	7' - 0"	PF	1 3/4"	H.M.	-	PAINT	P2	H.M.	PAINT	P2		L/A8.1	M/A6.1	M/A6.1	N/A8.1	
V-100		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	D/A8.1		
V-101		3' - 6"	7' - 0"	F	1 3/4"	(E)	-	(E)	(E)	(E)	PAINT	P2	-	-	-	-	-	PATCH & REPAIR (E) DOOR AS REQ'D. - PAINT
W-101		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	D/A8.1	K/A8.1	
W-102		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	-	E/A8.1	D/A8.1	D/A8.1		
W-103		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	D/A8.1	K/A8.1	
W-104		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	D/A8.1	K/A8.1	
W-105		3' - 0"	7' - 0"	F	1 3/4"	WOOD	-	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.1	D/A8.1	D/A8.1	K/A8.1	
X-100		11' - 9"	7' - 8"	SFG	6"	ALUM./GLASS	G1	P.F.	DARK BRONZE	ALUM. SF.	P.F.	DARK BRONZE	-	G/A8.1	J/A8.1	J/A8.1	F/A8.1	AUTOMATIC SLIDING DOOR w/TRANSOM PER MANUFACTURER WITH RECESSED PANIC & EMERGENCY BREAKOUT - MATCH (E) STOREFRONT COLOR
X-101		11' - 9"	7' - 8"	SFG	6"	ALUM./GLASS	G1	P.F.	DARK BRONZE	ALUM. SF.	P.F.	DARK BRONZE	-	H/A8.1				AUTOMATIC SLIDING DOOR w/TRANSOM PER MANUFACTURER WITH RECESSED PANIC & EMERGENCY BREAKOUT - PROVIDE LOW VOLTAGE CONNECT w/ (E) CARD LOCK SYSTEM - MATCH (E) STOREFRONT COLOR
X-103		6' - 0"	7' - 0"	PN	1 3/4"	WOOD/GLASS	G3	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	-	-	-		CARD READER
X-106		6' - 0"	7' - 0"	PN	1 3/4"	H.M.	G2	PAINT		H.M.	PAINT			L/A8.1	M/A6.1	M/A6.1	N/A8.1	
X-109		6' - 0"	7' - 0"	PN	1 3/4"	WOOD/GLASS	G3	P.F.	OAK WHITE, CLR.	K.D.	P.F.	DARK BRONZE	20 MIN.	-	-	-		CARD READER
X-110		6' - 0"	7' - 0"	PFG	1 3/4"	(E)	(E)	(E)	(E)	(E)	(E)	(E)	-					
X-111		6' - 0"	7' - 0"	PFG	1 3/4"	(E)	(E)	(E)	(E)	(E)	(E)	(E)	-					



J EXT. AUTOMATIC SLIDING DOOR JAMB @ (E) STOREFRONT
3" = 1'-0"

L H.M. DOOR HEAD @ PLASTER
3" = 1'-0"

M H.M. DOOR JAMB @ PLASTER
3" = 1'-0"

N EXT. THRESHOLD
3" = 1'-0"

G EXT. AUTOMATIC SLIDING DOOR HEADER @ MAIN LOBBY
3" = 1'-0"

H INT. AUTOMATIC SLIDING DOOR HEADER.
3" = 1'-0"

K INT. THRESHOLD - CARPET/TILE
3" = 1'-0"

E INT. DOOR HEAD
3" = 1'-0"

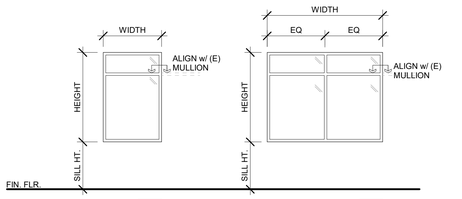
F AUTOMATIC SLIDING DOOR THRESHOLD
3" = 1'-0"

C INTERIOR DOOR MULLION
3" = 1'-0"

D INTERIOR DOOR JAMB
3" = 1'-0"

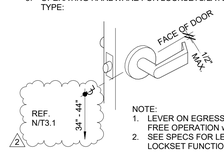
TRAN

GLAZED FRAME TYPES



GENERAL NOTES

1. MAXIMUM VERTICAL OFFSET AT DOOR THRESHOLD SHALL BE 1/4" VERTICAL OR 1/2" IF BEVELED - REFER TO THRESHOLD DETAIL(S).
2. ALL DOORS THAT ARE PART OF THE MEANS OF EGRESS SHALL BE EQUIPPED WITH HARDWARE THAT OPENS THE DOOR FROM THE INTERIOR WITHOUT SPECIAL KNOWLEDGE, EFFORT, OR A KEY.
3. MAXIMUM DOOR OPENING EFFORT SHALL BE 5# AT NON-RATED DOORS AND 15# AT FIRE RATED DOORS.
4. ALL FIRE RATED DOORS SHALL BE SELF-CLOSING, SELF-LATCHING, LISTED AND LABELED BY TESTING AGENCY, AND SHALL HAVE SMOKE SEALS. EXIT DEVICES ON FIRE RATED DOORS SHALL BE FIRE RATED WITHOUT DOGGING CAPABILITY.
5. SEE SPECIFICATIONS FOR DOOR HARDWARE SETS AND PRODUCTS.
6. ALL GLASS IN DOOR PANELS TO BE TEMPERED.
7. REFER TO A8.2 FOR GLASS TYPE DEFINITIONS.
   A. ALL GLAZING MATERIAL IN FIRE RATED DOOR ASSEMBLIES SHALL BE TESTED IN ACCORDANCE WITH NFPA 257 OR UL 9, INCLUDING THE HOSE STREAM TEST (GLAZING IN 20-MINUTE FIRE DOOR ASSEMBLIES SHALL BE EXEMPT FROM THE HOSE STREAM TEST).
8. SCHEDULED DETAILS REFER TO DETAILS ON THIS SHEET U.O.N.
9. OPERATING HARDWARE FOR LOCKSETS/LATCHSETS SHALL BE LEVER TYPE:



NOTE:
1. LEVER ON EGRESS SIDE SHALL PROVIDE FREE OPERATION w/o USE OF KEY
2. SEE SPECS FOR LEVER TYPE AND LOCKSET FUNCTION

GLAZING LEGEND

G1 - 1" INSULATED DUAL-PANE GLASS
EXT PANE - 1/4" CLEAR w/ PPG SOLARBAN 70XL LOW-E (2)
AIR GAP - 1/2"
INT. PANE - 1/4" CLEAR

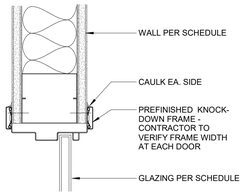
G2 - 1/4" SINGLE PANE GLASS

G3 - SUPERLITE I-XL 20, BY SAFTIFIRST
LABELED 'D-H' FOR USE IN FIRE RATED DOOR ASSEMBELIES

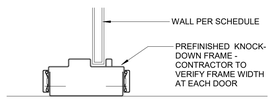
T - DENOTES TEMPERED GLASS AT HAZARDOUS LOCATIONS

GLAZED FRAME SYSTEM SCHEDULE

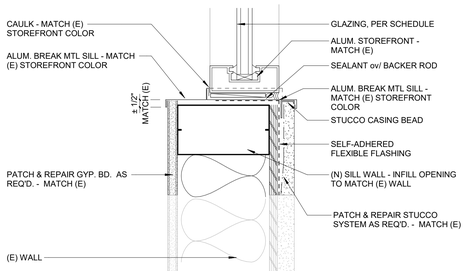
NO.	SIZE WIDTH	SIZE HEIGHT	ELEV. TYPE	SILL HT.	GLAZING	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	F.R.	DETAILS HD	DETAILS JB	DETAILS JB	DETAILS SILL	COMMENTS
A0	6' - 0"	7' - 2"	C	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	V.I.F. (E) OPENING DIMENSIONS
A1	6' - 0"	7' - 2"	C	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	V.I.F. (E) OPENING DIMENSIONS
A2	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A3	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A4	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A10	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A12	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A13	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A14	5' - 0"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A15	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A16	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A17	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A18	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A19	5' - 0"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A20	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A21	4' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A22	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A23	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A24	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A25	5' - 0"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A26	2' - 0"	7' - 2"	E	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
4 A27	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
A28	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
B1	5' - 0"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
B2	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
B3	5' - 6"	7' - 2"	C	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
B6	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
B7	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
B8	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
B9	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
C1	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
C2	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
C3	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
D0	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
D1	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
D3	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
G1	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
G2	1' - 6"	7' - 0"	E	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
G3	3' - 0"	7' - 0"	E	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
G4	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
G5	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
G6	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
G7	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
G8	4' - 0"	4' - 0"	A	3" - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	-	
G9	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
G10	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
G11	5' - 6"	7' - 2"	C	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
H1	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
I1	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
I2	5' - 2"	10' - 0"	-	0' - 0"	(E)	(E)	(E)	(E)	-	-	-	-	-	EXISTING WINDOW TO REMAIN IN PLACE
J0	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
J1	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
J2	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
J3	2' - 0"	4' - 0"	A	3" - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	-	
L0	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
L1	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
L3	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
M0	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
M1	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
N1	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
N2	5' - 6"	7' - 2"	C	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
O1	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
O2	5' - 6"	7' - 2"	C	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
P0	5' - 6"	7' - 2"	C	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
P1	5' - 6"	7' - 2"	C	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
S1	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
S2	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
S3	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
S4	5' - 6"	7' - 2"	C	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
S5	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
U0	5' - 6"	7' - 2"	C	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
U1	4' - 10"	7' - 2"	C	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
U2	5' - 6"	7' - 2"	D	0' - 0"	G3	K.D.	P.F.	DARK BRONZE	20 MIN.	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
U3	5' - 6"	7' - 2"	D	0' - 0"	G2	K.D.	P.F.	DARK BRONZE	-	E/A8.2	E/A8.2	E/A8.2	F/A8.2	
X1	4' - 0"	5' - 10"	B	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	
X2	4' - 0"	5' - 10"	B	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	D/A8.2	
X3	4' - 0"	5' - 10"	A	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	
X4	4' - 0"	5' - 10"	A	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	
X5	4' - 0"	5' - 10"	A	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	
X6	4' - 0"	5' - 10"	A	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	
X8	6' - 0"	5' - 10"	B	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	D/A8.2	V.I.F. (E) OPENING DIMENSIONS
X9	4' - 0"	5' - 10"	A	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	
X10	4' - 0"	5' - 10"	A	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	V.I.F. WINDOW SIZE & LOCATION - COORDINATE w/ ARCH.
X11	4' - 0"	5' - 10"	A	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	
X12	4' - 0"	5' - 10"	A	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	
X13	4' - 0"	9' - 0"	F	0' - 0"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	G/A8.2				V.I.F. (E) OPENING DIMENSIONS
X14	4' - 0"	5' - 10"	A	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	V.I.F. WINDOW SIZE & LOCATION - COORDINATE w/ ARCH.
X15	4' - 0"	5' - 10"	A	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	V.I.F. WINDOW SIZE & LOCATION - COORDINATE w/ ARCH.
4 X16	4' - 0"	5' - 10"	A	3' - 2"	G1	ALUMN.	P.F.	MATCH (E) COLOR	-	B/A8.2	C/A8.2	C/A8.2	C/A8.2	V.I.F. WINDOW SIZE & LOCATION - COORDINATE w/ ARCH.



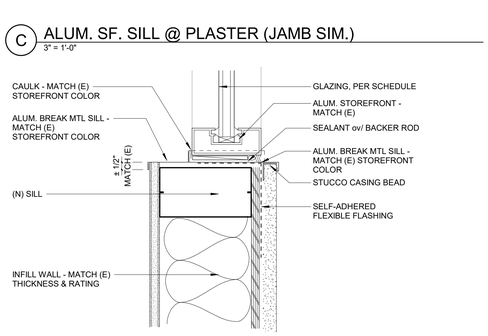
E INTERIOR GLAZING HEAD / JAMB
3" = 1'-0"



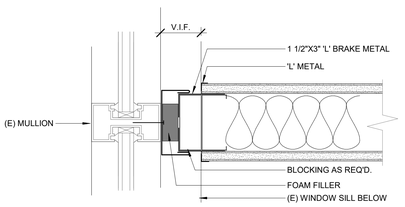
F INTERIOR SILL @ GLAZING
3" = 1'-0"



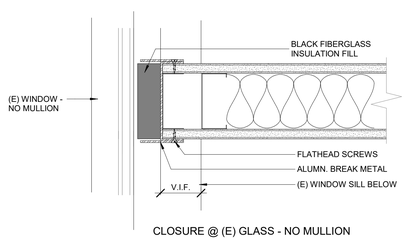
D ALUM. SF. SILL @ PLASTER (JAMB SIM.) - INFILL
3" = 1'-0"



C ALUM. SF. SILL @ PLASTER (JAMB SIM.)
3" = 1'-0"

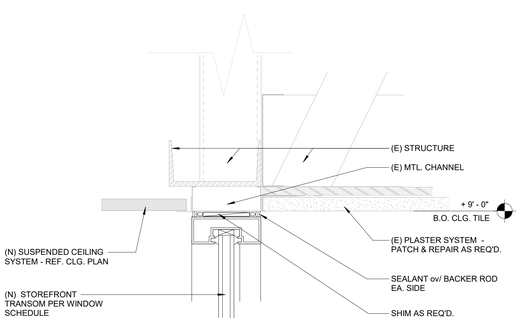


CLOSURE @ (E) WINDOW MULLION

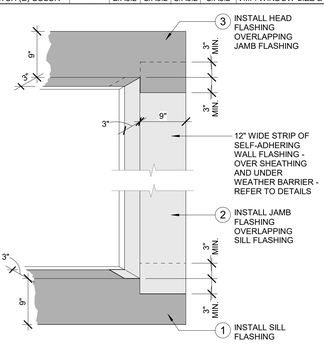


CLOSURE @ (E) GLASS - NO MULLION

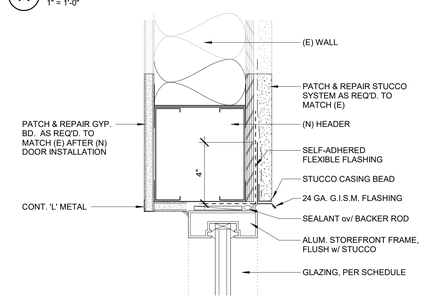
H WALL GAP CLOSURE @ (E) STOREFRONT
3" = 1'-0"



G HEADER @ COMISSIONERS ROOM - DOOR TRANSOM
3" = 1'-0"



A SELF-ADHERING FLASHING
1" = 1'-0"



B ALUM. SF. HEAD @ PLASTER
3" = 1'-0"

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315 Fyffe Ave.
Stockton, CA 95203

WMB Project No. 19-095

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2	12.12.25	PLAN CHECK #1
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4	08.31.26	BID SET

WINDOW SCHEDULE AND DETAILS

A8.2

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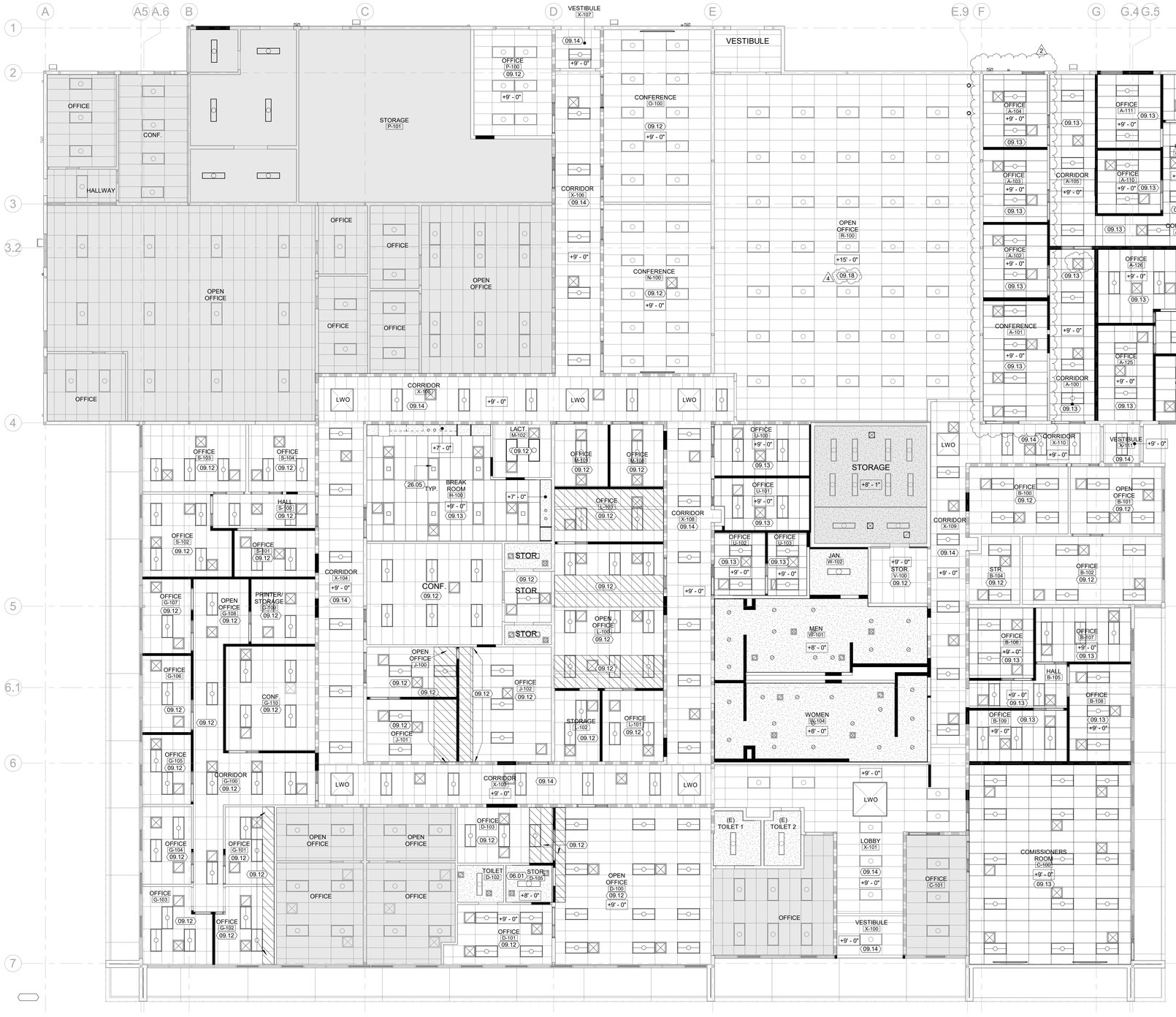


REFLECTED CEILING PLAN

1/8" = 1'-0"

LEGEND

- 24" x 48" SUSPENDED T. BAR GRID w/ LAY-IN CEILING TILE REF. A10.1 FOR MORE INFO.
- 5/8" GYP. BD. o/ JOISTS, PER CEILING FRAMING SCHEDULE
- LAY-IN LIGHT FIXTURE - REF. ELECTRICAL DWGS.
- LINEAR LAY-IN LIGHT FIXTURE @ LOBBY & PORT DIRECTOR OFFICE 124 - REF. ELECTRICAL DWGS.
- LINEAR PENDANT LIGHT FIXTURE @ COMMISIONERS REF. ELECTRICAL DWGS.
- RECESSED LIGHT FIXTURE - REF. ELECTRICAL DWGS.
- SURFACE-MOUNTED LIGHT FIXTURE - REF. ELECTRICAL DWGS.
- LWO — (E) LIGHT WELL OPENING
- SUPPLY AIR GRILLE - REF. MECHANICAL DWGS.
- RETURN AIR GRILLE - REF. MECHANICAL DWGS.
- EXHAUST GRILLE - REF. MECHANICAL DWGS.
- +10' - 0" — CEILING HEIGHT ABOVE FINISH FLOOR LEVEL
- ILLUMINATED EXIT SIGN - REF. ELECTRICAL DWGS.
- (E) NO WORK

CEILING FRAMING SPAN TABLE		
	SPACING AND MAX. SPAN	
JOIST SIZE	16" O.C.	24" O.C.
250S137 20 GA.	9' - 0" MAX.	-
362S137 20 GA.	11' - 0" MAX.	9' - 0" MAX.
400S137 20 GA.	15' - 0" MAX.	13' - 0" MAX.
600S137 20 GA.	17' - 0" MAX.	15' - 0" MAX.

NOTE:
- CEILING JOISTS ARE DESIGNED FOR DRYWALL OR PLASTER (DL = 10 PSF, LL = 10 PSF)
- PROVIDE MIDSPAN BLOCKING ON ALL JOISTS WHERE SPAN EXCEEDS 10'-0"

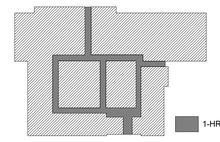
GENERAL NOTES

1. MECHANICAL GRILLES AND ELECTRICAL FIXTURES SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR MORE INFORMATION.
2. CORRIDORS ARE 1-HOUR FIRE RATED. ALL LIGHT FIXTURES IN ONE-HOUR RATED CEILINGS SHALL BE PROTECTED WITH UL CLASSIFIED FIRE-RATED TROFFER COVER (TENMAT FF130-2X4 OR EQUAL) INSTALL PER MFR. INSTRUCTIONS.
3. MAINTAIN (E) FIRE-RESISTANCE RATED CONSTRUCTION
4. MAINTAIN (E) FIREPROOFING SPRAY ON (E) ROOF STRUCTURAL MEMBERS - PATCH & REPAIR BACK FIRE PROOFING AS REQ'D.
5. PROVIDE FOR REMOVAL & REPLACEMENT OF (E) ROOF INSULATION IF NEEDED FOR INSTALLATION OF SUSPENDED CEILING. - PATCH FIRE PROOFING BACK AS REQ'D. - REF. A9.2

KEYNOTES

- 06.01 INFILL CEILING FRAMIN AS REQ'D. TO MATCH (E) - INSTALL (N) GYP. BD. THROUGHOUT - PAINT
- 09.12 PATCH & REPAIR (E) T-BAR SYSTEM GRID AS REQ'D. - INSTALL (N) CEILING TILES
- 09.13 2x4 SUSPENDED T-BAR CEILING - REF. FINISH SCHEDULE FOR CEILING TILE
- 09.14 PATCH & REPAIR (E) FIRE-RATED T-BAR GRIDS AS REQ'D. - REPLACE IF NEEDED TO MATCH (E). INSTALL (N) FIRE-RATED CEILING TILES PER FINISHES SCHEDULE - MAINTAIN (E) FIRE RATING FOR THE WHOLE T-BAR CEILING SYSTEM (GRIDS & TILES)
- 09.18 IF ALTERNATE BID (1) IS ACCEPTED AND EXISTING (AC-5) CEILING IS REPLACED, PATCH AND REPAIR EXISTING CEILING T-BAR GRID, REPLACE EXISTING CEILING TILES & LIGHT FIXTURES AS REQ'D.
- 26.05 LIGHT FIXTURE - REF. ELECTRICAL DWGS.

KEY PLAN



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LICENSED ARCHITECT William Tyrrell REGISTERED PROFESSIONAL ARCHITECT STATE OF CALIFORNIA

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REFLECTED CEILING PLAN

A9.1

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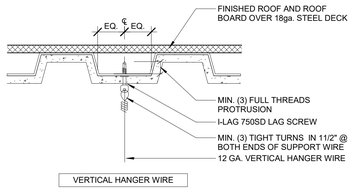
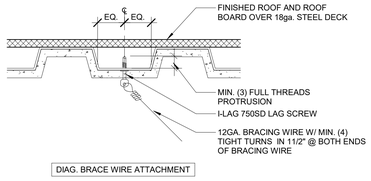


VERTICAL HANGER WIRE



DIAG. BRACE WIRE ATTACHMENT

MAINTAIN (E) FIRE PROOFING AT EXISTING METAL DECK ROOFING:

SCRAPE EXISTING FIRE PROOFING FROM (E) METAL DECK PRIOR TO ATTACHING CEILING HANGERS - PATCH BACK FIRE PROOFING AFTER ALL HANGERS ARE INSTALLED

2

NOTES:

VERTICAL HANGER WIRES:

1. INSTALL LAG SCREWS WITHOUT PRE-DRILLED HOLES IN RECEIVING MATERIAL
2. ONE OUT OF EVERY TEN VERTICAL HANGER WIRES SHALL BE FIELD TESTED. FOR 200# TENSION. PERMANENT SET OR DISPLACEMENT OF SCREW AFTER TESTING SHALL BE CONSIDERED FAILURE
3. THIS DETAIL DOES NOT APPLY TO SUSPENDED GYPSUM BOARD CEILING
4. REF.: ICC ES ER-5367

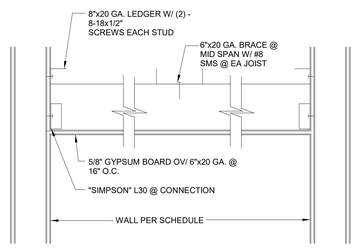
DIAG. BRACE WIRE ATTACHMENT

1. INSTALL LAG SCREWS WITHOUT PRE-DRILLED HOLES IN RECEIVING MATERIAL
2. ONE OUT OF EVERY TWO DIAGONAL BRACE WIRES SHALL BE FIELD TESTED TO 500# IN THE DIRECTION OF THE DIAGONAL. PERMANENT SET OR DISPLACEMENT OF SCREW AFTER TESTING SHALL BE CONSIDERED FAILURE.
3. THIS DETAIL DOES NOT APPLY TO SUSPENDED GYPSUM BOARD CEILING
4. REF.: ICC ES ER-5367

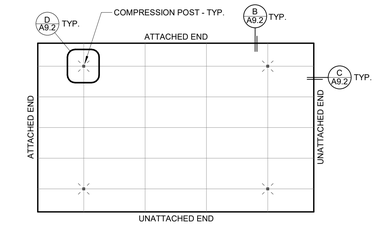
2 F VERT. & DIAG. BRACE WIRE ATTACHMENT
3" = 1'-0"

NOT USED

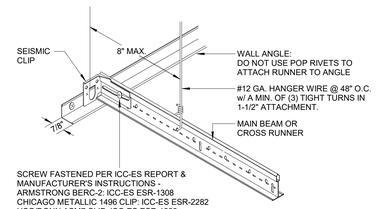
G 4 SUSPENDED GYP. BD. CEILING
3" = 1'-0"



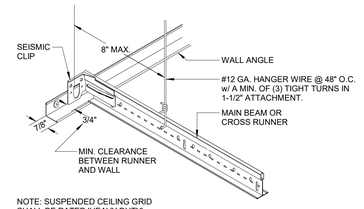
H GYP.BD. FRAMED CEILING
1 1/2" = 1'-0"



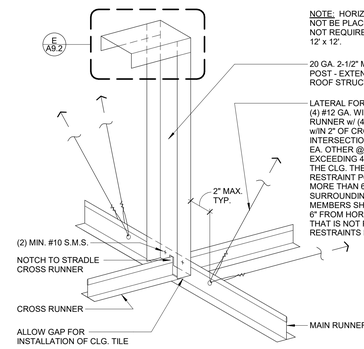
A TYP. ACOUSTIC CEILING GRID
1/4" = 1'-0"



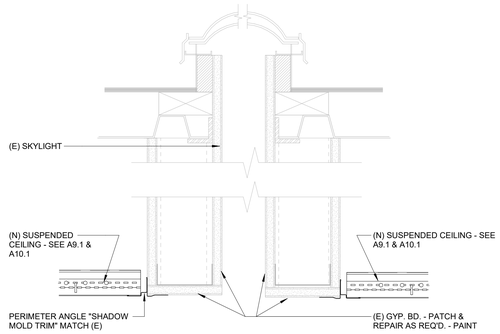
B WALL CONDITION @ ATTACHED END
3" = 1'-0"



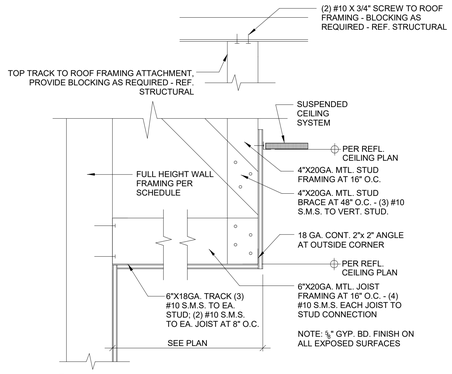
C WALL CONDITION @ UNATTACHED END
3" = 1'-0"



D TYP. LATERAL FORCE BRACING
3" = 1'-0"



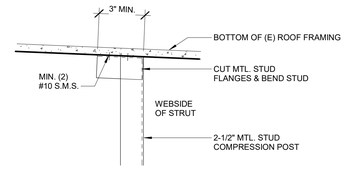
P T-BAR CEILING @ SKYLIGHT
3" = 1'-0"



K SOFFIT DETAIL
1 1/2" = 1'-0"

2 MAINTAIN (E) FIRE PROOFING AT EXISTING METAL DECK ROOFING:

SCRAPE EXISTING FIRE PROOFING FROM (E) METAL DECK PRIOR TO ATTACHING CEILING HANGERS - PATCH BACK FIRE PROOFING AFTER ALL HANGERS ARE INSTALLED



2 E COMPRESSION POST TO STRUCT.
3" = 1'-0"

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REGISTERED ARCHITECT JAMES W. SLOAN STATE OF CALIFORNIA

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4	08.31.26	BID SET

CEILING DETAILS

A9.2

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FINISHES PLAN

3/32" = 1'-0"

NOTE:
PROVIDE WINDOW SHADES FOR ALL WINDOWS (WHOLE BUILDING PHASE | & |I)

ROOM FINISH SCHEDULE

NO.	NAME	FLOOR	BASE	WALL	CEILING	COMMENTS
A-100	CORRIDOR	C3	B1	P1	CT1	
A-101	CONFERENCE	C2	B1	P1	CT1	
A-102	OFFICE	C3	B1	P1	CT1	
A-103	OFFICE	C3	B1	P1	CT1	
A-104	OFFICE	C2	B1	P1	CT1	
A-105	CORRIDOR	C3	B1	P1	CT1	
A-108	CORRIDOR	C3	B1	P1	CT1	
A-109	HALL	C3	B1	P1	CT1	
A-110	OFFICE	C3	B1	P1	CT1	
A-111	OFFICE	C3	B1	P1	CT1	
A-112	OFFICE	C3	B1	P1	CT1	
A-113	OFFICE	C3	B1	P1	CT1	
A-114	OPEN OFFICE	C3	B1	P1	CT1	
A-115	OFFICE	C3	B1	P1	CT1	
A-116	OFFICE	C3	B1	P1	CT1	
A-117	OFFICE	C3	B1	P1	CT1	
A-118	OFFICE	C3	B1	P1	CT1	
A-119	OPEN OFFICE	C3	B1	P1	CT1	
A-120	OFFICE	C3	B1	P1	CT1	
A-121	OFFICE	C3	B1	P1	CT1	
A-122	OFFICE	C3	B1	P1	CT1	
A-123	OFFICE	C3	B1	P1	CT1	
A-124	OFFICE	C3	B1	P1	CT1	
A-125	OFFICE	C3	B1	P1	CT1	
A-126	OFFICE	C3	B1	P1	CT1	
A-127	OFFICE	C3	B1	P1	CT1	
A-128	HALLWAY	C3	B1	P1	CT1	
B-100	OFFICE	C3	B1	P1	CT1*	
B-101	OPEN OFFICE	C3	B1	P1	CT1*	
B-102	OFFICE	C3	B1	P1	CT1*	
B-104	STR.	C3	B1	P1	CT1*	
B-105	HALL	C3	B1	P1	CT1	
B-106	OFFICE	C3	B1	P1	CT1	
B-107	OFFICE	C3	B1	P1	CT1	
B-108	OFFICE	C3	B1	P1	CT1	
B-109	OFFICE	C3	B1	P1	CT1	
C-100	COMISSIONERS ROOM	C2	B1	P1	CT1	
C-101	OFFICE	C3	B1	P1	CT1*	
D-100	OPEN OFFICE	C3	B1	P1	CT1*	
D-101	OFFICE	C3	B1	P1	CT1*	
D-102	TOILET	-	-	-	-	
D-103	OFFICE	C3	B1	P1	CT1*	
D-105	STOR.	C3	B1	P1	P1	
G-100	CORRIDOR	C3	B1	P1	CT1*	
G-101	OFFICE	C3	B1	P1	CT1*	
G-102	OFFICE	C3	B1	P1	CT1*	
G-103	OFFICE	C3	B1	P1	CT1*	
G-104	OFFICE	C3	B1	P1	CT1*	
G-105	OFFICE	C3	B1	P1	CT1*	
G-106	OFFICE	C3	B1	P1	CT1*	
G-107	OFFICE	C3	B1	P1	CT1*	
G-108	OPEN OFFICE	C3	B1	P1	CT1*	
G-109	PRINTER/ STORAGE	C3	B1	P1	CT1*	
G-110	CONF.	C2	B1	P1	CT1*	
H-100	BREAK ROOM	T2	B1	T5	CT1	
I-100	CONF.	C2	B1	P1	CT1*	
I-102	STOR.	(E)	(E)	P1	P1	
I-103	STOR.	(E)	(E)	P1	P1	
J-100	OPEN OFFICE	C3	B1	P1	CT1*	
J-101	OFFICE	C3	B1	P1	CT1*	
J-102	OFFICE	C3	B1	P1	CT1*	
L-100	OPEN OFFICE	C3	B1	P1	CT1*	
L-101	OFFICE	C3	B1	P1	CT1*	
L-102	STORAGE	C3	B1	P1	CT1*	
L-103	OFFICE	C3	B1	P1	CT1*	
M-100	OFFICE	C3	B1	P1	CT1*	
M-101	OFFICE	C3	B1	P1	CT1*	
M-102	LACT.	C3	B1	P1	CT1*	
N-100	CONFERENCE	C2	B1	P1	CT1*	
O-100	CONFERENCE	(E)	(E)	(E)	CT1*	
P-100	OFFICE	(E)	(E)	(E)	CT1*	
P-101	STORAGE	(E)	(E)	(E)	-	
R-100	OPEN OFFICE	4 C2	B1	P1	CT1*	
S-100	HALL	C3	B1	P1	CT1*	
S-101	OFFICE	C3	B1	P1	CT1*	
S-102	OFFICE	C3	B1	P1	CT1*	
S-103	OFFICE	C3	B1	P1	CT1*	
S-104	OFFICE	C3	B1	P1	CT1*	
U-100	OFFICE	C3	B1	P1	CT1*	
U-101	OFFICE	C3	B1	P1	CT1*	
U-102	OFFICE	C3	B1	P1	CT1*	
U-103	OFFICE	C3	B1	P1	CT1*	
V-100	STOR.	(E)	(E)	P1	CT1*	
V-101	STORAGE	(E)	(E)	(E)	(E)	
W-101	MEN	T2	B2	T5 | T3	P1	
W-102	JAN.	T2	B2	T5	P1	
W-104	WOMEN	T1	B2	T3 | T5	P1	
X-100	VESTIBULE	1 T7 | T8	B2	P1	CT2	CONFIRM PATTERN w/ INTERIOR DESIGNER
X-101	LOBBY	1 T7 | T8	B2	P1	CT2	CONFIRM PATTERN w/ INTERIOR DESIGNER
X-103	CORRIDOR	C1	B1	P1	CT2	
X-104	CORRIDOR	C1	B1	P1	CT2	
X-105	CORRIDOR	C1	B1	P1	CT2	
X-106	CORRIDOR	C1	B1	P1	CT2	
X-107	VESTIBULE	C1	B1	P1	CT2	
X-108	CORRIDOR	C1	B1	P1	CT2	
X-109	CORRIDOR	C1	B1	P1	CT2	
X-110	CORRIDOR	C1	B1	P1	CT2	
X-111	VESTIBULE	C1	B1	P1	CT2	

NOTE:
CT1* - REF. A9.1 FOR MORE INFORMATION

FINISHES LEGEND

CARPET

C1 - MOHAWK GROUP - VARIANT FORM, DIFFUSE BT45, 955 LUMEN - TUFTED 12" x 36" @ CORRIDORS

C2 - MOHAWK GROUP - VARIANT FORM, RECONSTRUCT BT424, 955 LUMEN - TUFTED 24" x 24" @ CONFERENCE ROOMS

C3 - PROVIDED BY OWNER - @ OFFICES

TILE

T1 - BELL ARCHITECTURAL MATERIALS - FLOOR TILES: METROPOLITAN - DECO (COLOR FAIR) - 12"X12"

T2 - BELL ARCHITECTURAL MATERIALS - FLOOR TILES: METROPOLITAN - DECO (COLOR SOLID) - 12"X12"

T3 - BELL ARCHITECTURAL MATERIALS - WALL TILES: METROPOLITAN - FAIR - 12"x24"

NOT USED 1 T4 - ~~BELL ARCHITECTURAL MATERIALS - WALL TILES: METROPOLITAN - LIGHT STRIPES (COLOR FAIR) - 12"X24"~~

T5 - BELL ARCHITECTURAL MATERIALS - WALL TILES: METROPOLITAN - SOILD - 12"x24"

NOT USED 1 T6 - ~~BELL ARCHITECTURAL MATERIALS - WALL TILES: METROPOLITAN - DARK STRIPES (COLOR SOLID) - 12"X24"~~

1 T7- BELL ARCHITECTURAL MATERIALS - METROPOLITAN - SOILD - 24"x24"

1 T8- BELL ARCHITECTURAL MATERIALS - METROPOLITAN - FAIR - 24"x24"

GROUT: CUSTOM BUILDING PRODUCTS, COLOR T.B.D.

BELL ARCHITECTURAL MATERIALS - PAUL R. BELL, PH: 916.708.1927, EMAIL: PAULB.ARCHMATERIALS@GMAIL.COM

BASE

B1 - *TYPICAL BASE* ROPPE, 4" WALL BASE - COLOR: 193 BLACK BROWN

B2 - *RESTROOM BASE* SCHLUTER, DILEX-AHK, ALUMINUM - BRUSHED CHROME ANODIZED

SOLID SURFACING

SS1 - *ALL COUNTERTOPS & BACKSPLASHES* WILSONART EUROPA 9210CM

PLASTIC LAMINATE

PL1 - WILSONART, 4990-38 FLAX LINEN

PL2 - FORMICA , CLOVE SPICE CHERRY - 5789

PAINT

P1 - *INTERIOR FIELD PAINT* DUNN EDWARDS - COLOR: DEHW04 SWISS MERINGUE, LRV 81

P2 - *HOLLOW METAL DOORS (FRAME & PANEL)* DUNN EDWARDS - COLOR: ESPRESO MACCHIATO, DET 680

CEILING TILES

CT1 - *TYPICAL CEILING TILES* 4 ARMSTRONG - 24"X48" FISSURED 755 15"/16" BEVELED TEGULAR - COLOR: WH WHITE w/ 15/16 PRELUDE WHITE SUSPENSION SYSTEM

CT2 - *LOBBY & CORRIDORS* ARMSTRONG 823 (24"X48") - 1HR RATED CORTEGA SECOND LOOK || - FIRE GUARD, GRID - PRELUDE XL FIRE GUARD

CABINET / DRAWER PULL HANDRAIL

HICKORY HARDWARE SKYLIGHT 5-1/16 INCH CENTER TO CENTER SQUARE CORNER - MODEL HH075328-SS

SCHLUTER TRIMS @ TILED WALLS

TR1 - SCHLUTER RONDEC - BRUSHED ALUM. ANODIZED - SCHLUTER - PROVIDE END CAPS @ ALL TILED WALLS OUTSIDE CORNERS

TR2 - SCHLUTER DILEX-EHK, BRUSHED CHROME ANODIZED @ TILED WALLS INSIDE CORNER

RESTROOMS PARTITIONS

RP1 - BOBRICK - DESIGNER SERIES - HIGH PRESSURE LAMINATE COLOR - FORMICA , CLOVE SPICE CHERRY - 5789

WINDOW SHADES

(NOTE: ALL SHADES ARE MANUAL, UNLESS OTHERWISE NOTED; REF. WINDOW SCHEDULE FOR SIZE)

WS1 MECHO, THERMOVEIL, 1300 SERIES (5% OPEN) - 1302 BEIGE @ ALL EXISTING AND NEW WINDOWS

PRODUCT & MATERIAL REQUIREMENTS FOR INDOOR POLLUTANT CONTROL

1. ALL MATERIALS, ADHESIVES, COATINGS, AND SEALANTS SHALL COMPLY WITH V.O.C. LIMITATIONS SET FORTH BY THE LOCAL AIR POLLUTION CONTROL DISTRICT OR CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 11 (CALGREEN BUILDING STANDARDS), WHICHEVER IS MORE RESTRICTIVE.
2. ALL CARPET MATERIALS SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF THE CARPET & RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM OR EQUIVALENT CRITERIA SET FORTH IN CALIFORNIA CALGREEN BUILDING STANDARDS.
3. A MINIMUM OF 50% OF RESILIENT FLOORING SHALL COMPLY WITH THE V.O.C. EMISSION LIMITS DEFINED IN 2009 COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) CRITERIA AND LISTED ON ITS LOW-EMITTING MATERIALS LIST OR CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE FLOORSCORE PROGRAM.
4. ALL HARDWOOD COMPOSITE WOOD PRODUCTS (PLYWOOD, PARTICLEBOARD, AND MEDIUM DENSITY FIBERBOARD) SHALL MEET THE MAXIMUM FORMALDEHYDE EMISSIONS LIMITATIONS AS SPECIFIED IN ARB'S AIR TOXIC CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.) BY THE DATES SPECIFIED IN THOSE SECTIONS.
5. ARCHITECT HAS MADE EVERY REASONABLE ATTEMPT TO CONFIRM THAT PRODUCTS SPECIFIED IN THESE DOCUMENTS COMPLY WITH ABOVE-LISTED REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR, VENDOR, AND/OR MANUFACTURER TO NOTIFY THE ARCHITECT THROUGH THE GENERAL CONTRACTOR OF ANY NON-COMPLIANT PRODUCT OR MATERIAL SPECIFIED BY THE ARCHITECT PRIOR TO BID DUE DATE.
6. CONTRACTOR SHALL PROVIDE PRODUCT/MATERIAL COMPLIANCE DOCUMENTATION WITH SUBMITTAL DOCUMENTS AS REQUIRED BY SPECIFICATION SECTION 013323. CONTRACTOR SHALL SUBMIT COMPLIANCE DOCUMENTATION TO THE JURISDICTION HAVING AUTHORITY UPON ACCEPTANCE BY ARCHITECT.

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WMB Project No. 19-095

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3	02.12.26	PLAN CHECK #2
4	08.31.26	BID SET

FINISH SCHEDULE

A10.1

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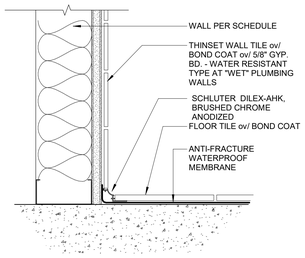
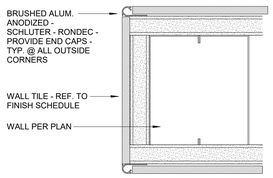
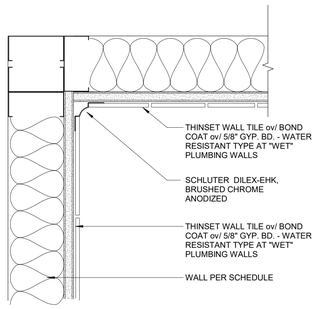


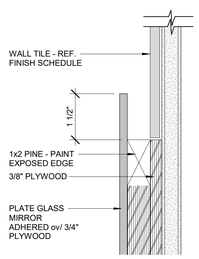
A TILE BASE @ CONC. FLOOR
3" = 1'-0"



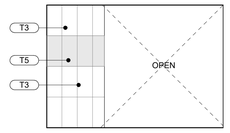
B TILED WALL CORNER
6" = 1'-0"



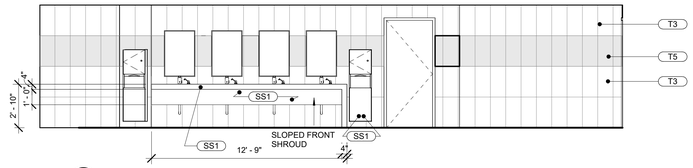
C TILE WALL - INSIDE CORNER
3" = 1'-0"



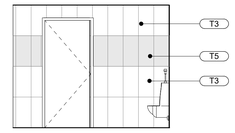
D MIRROR EDGE
6" = 1'-0"



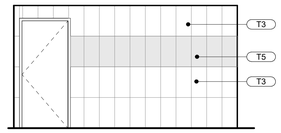
4 MEN RESTROOM W-101 W
1/4" = 1'-0"



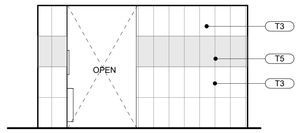
1 MEN RESTROOM W-101 N
1/4" = 1'-0"



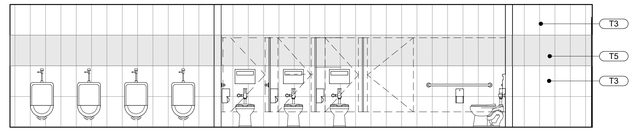
2 MEN RESTROOM W-101 E
1/4" = 1'-0"



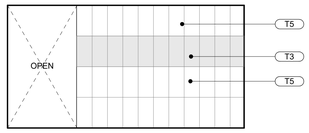
11 MEN RESTROOM W-101 WEST
1/4" = 1'-0"



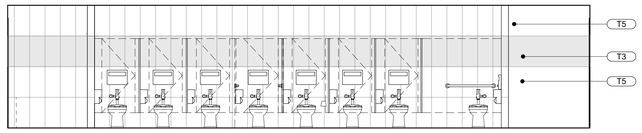
12 MEN RESTROOM W-101 EAST
1/4" = 1'-0"



3 MEN RESTROOM W-101 S
1/4" = 1'-0"



8 WOMEN RESTROOM W-104 W
1/4" = 1'-0"



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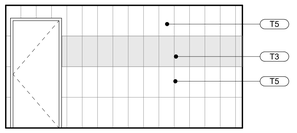

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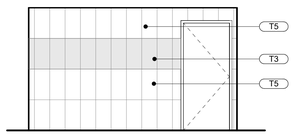
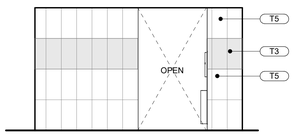
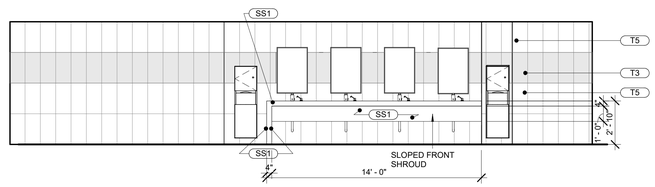
1/4" = 1'-0"



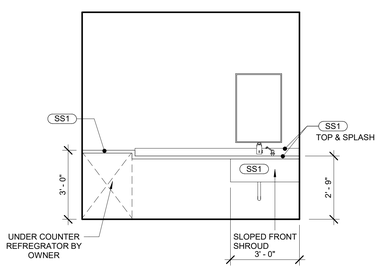
9 WOMEN RESTROOM W-104 WEST
1/4" = 1'-0"



10 WOMEN RESTROOM W-104 EAST
1/4" = 1'-0"



7 WOMEN RESTROOM W-104 S
1/4" = 1'-0"



13 LACTATION M-102 WEST
3/8" = 1'-0"

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INTERIOR ELEVATIONS

A10.2

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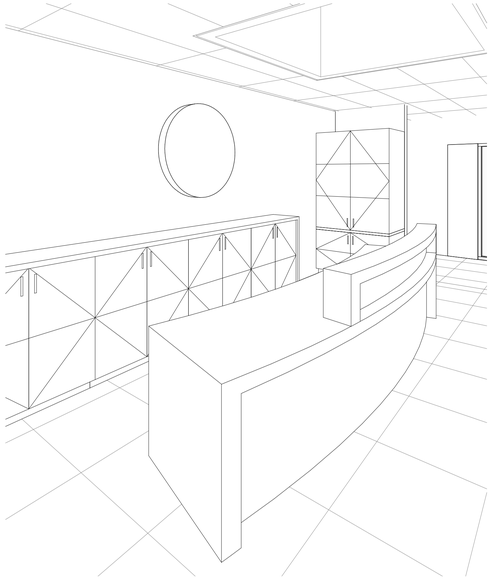
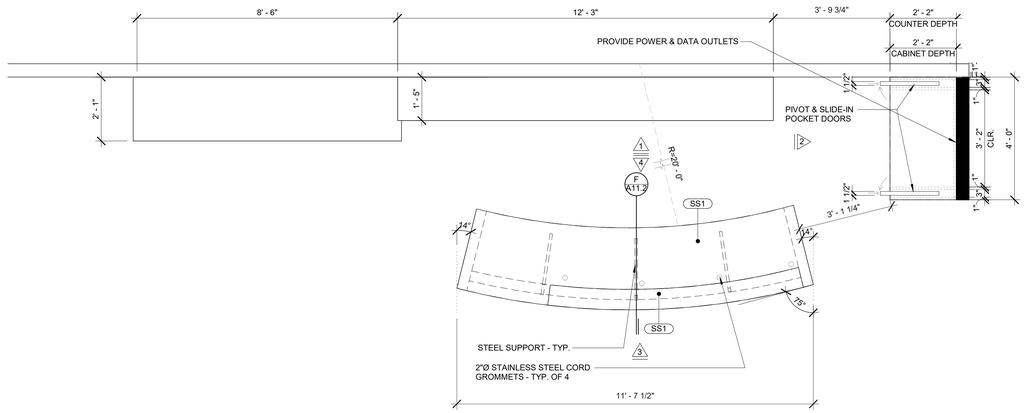
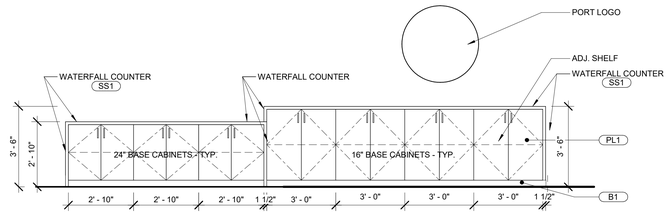


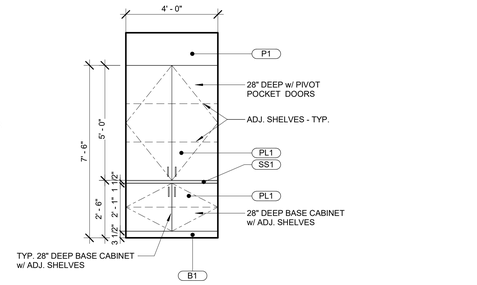
LOBBY 101 - RECEPTION



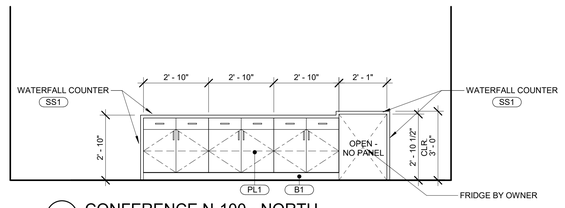
A ENLARGED RECEPTION - LOBBY 101
1/2" = 1'-0"



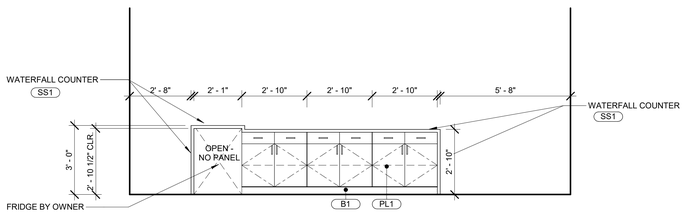
1 LOBBY 101 RECEPTION WALL CABINET - NORTH
3/8" = 1'-0"



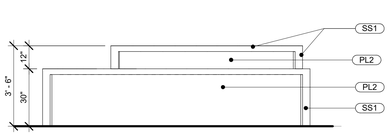
2 LOBBY 101 - RECEP. CABINET - EAST
3/8" = 1'-0"



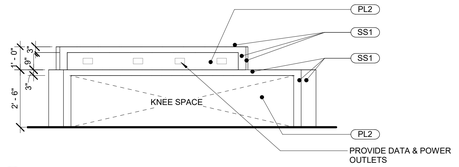
9 CONFERENCE N-100 - NORTH
3/8" = 1'-0"



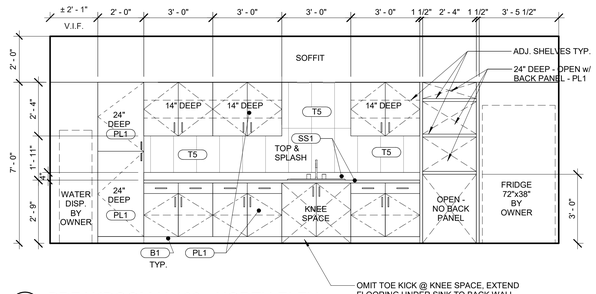
10 CONFERENCE O-100 - SOUTH
3/8" = 1'-0"



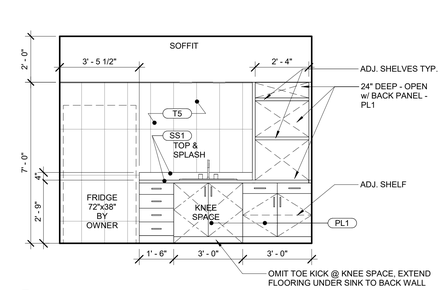
3 LOBBY 101 RECEPTION DESK - NORTH
3/8" = 1'-0"



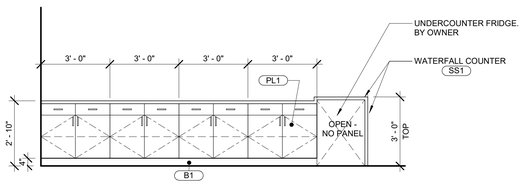
4 LOBBY 101 RECEPTION DESK - SOUTH
3/8" = 1'-0"



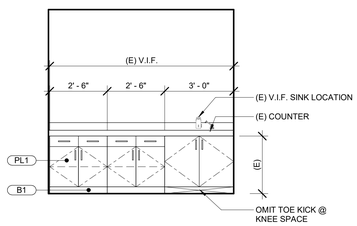
5 BREAKROOM H-100 - NORTH ELEV.
3/8" = 1'-0"



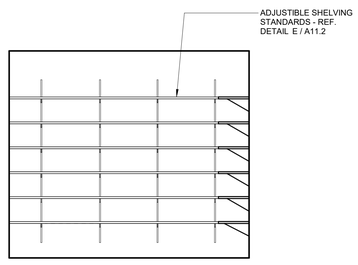
6 BREAKROOM H-100 - EAST ELEV.
3/8" = 1'-0"



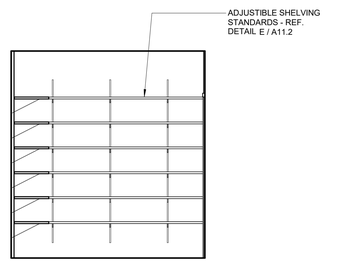
11 COMISSIONERS ROOM - C-100 - WEST
3/8" = 1'-0"



12 (E) TOILET 1 - EAST
3/8" = 1'-0"



8 JAN. W-102 - NORTH
3/8" = 1'-0"



7 JAN. W-102 - EAST
3/8" = 1'-0"

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REGISTERED ARCHITECT
JAMES W. MILLER
No. C-23000
STATE OF CALIFORNIA

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CASEWORK ELEVATIONS

A11.1

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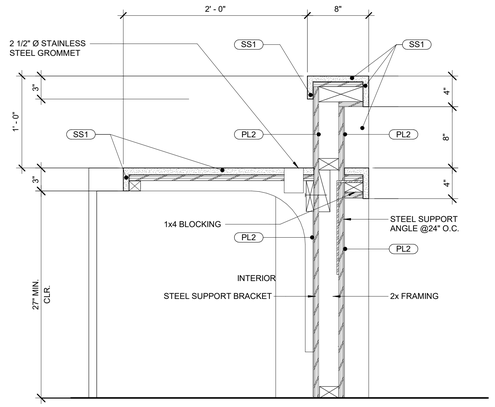
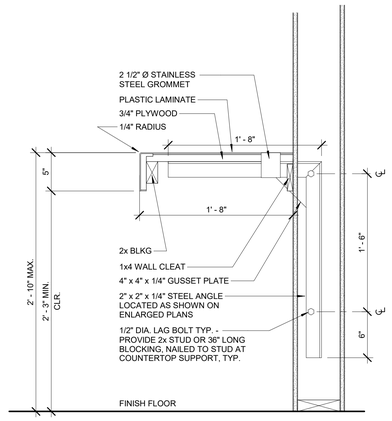
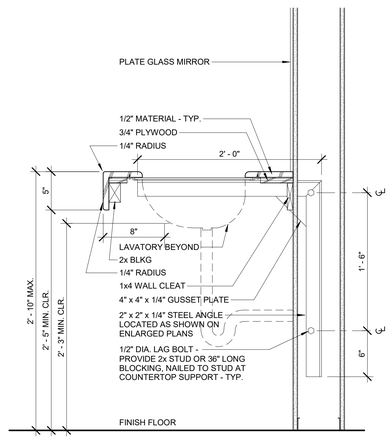


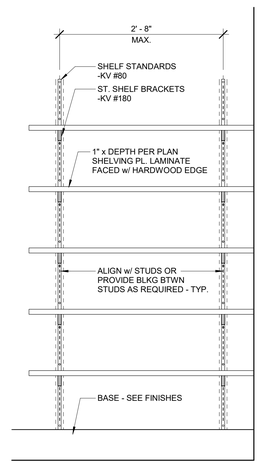
F RECEPTION DESK @ LOBBY 101
1 1/2" = 1'-0"



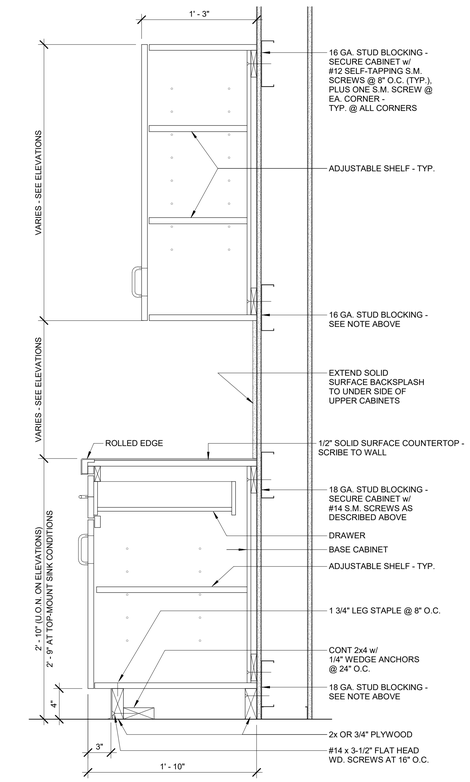
C COUNTER SUPPORT
1 1/2" = 1'-0"



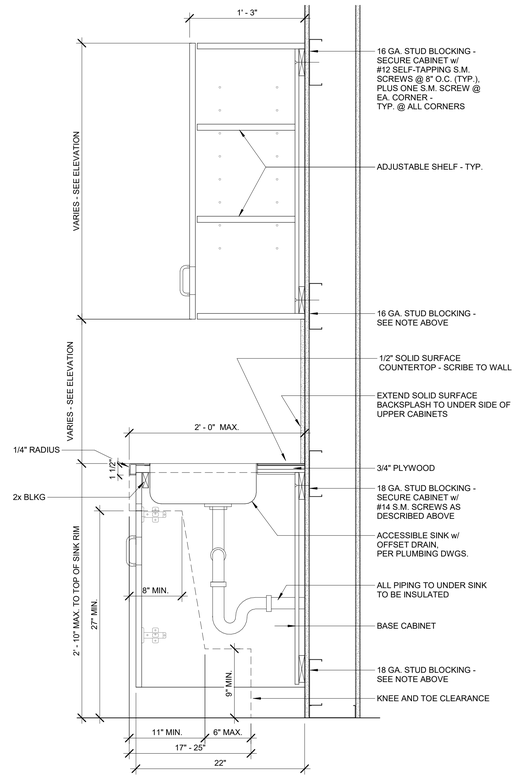
D LAV. COUNTER w/ SUPPORT
1 1/2" = 1'-0"



E JANITOR SHELVING
1" = 1'-0"



A TYP. CABINET
1 1/2" = 1'-0"



B CABINET w/ SINK
1 1/2" = 1'-0"

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2	12.12.25	PLAN CHECK #1
3	02.12.26	PLAN CHECK #2
4	08.31.26	BID SET

CABINET DETAILS

A11.2

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Structural Steel:

1. Structural steel members shall conform to the following minimum standards and material properties

Shape	Standard/Grade	Fy
W,WT	ASTM A992 Grade 50	50 ksi
Channels & Angles	ASTM A36	36 ksi
Bars and Plates	ASTM A36	36 ksi
HSS (round)	ASTM A500 (Grade B)	42 ksi
HSS (rectangular)	ASTM A500 (Grade B)	46 ksi
Cold Formed Shapes	ASTM A570	33 ksi
Bolts	ASTM A325	--
Nuts	ASTM A563	--
Hardened Steel Washers	ASTM F436	--
Load Indicator Washers	ASTM F959	--
Anchor Bolts	ASTM F1554	36 ksi
Shear Studs	ASTM A108 (type B)	--
Threaded Rod	ASTM A36	36 ksi
	ASTM F959	
	ASTM F1554	
	ASTM A108 (type B)	

2. All bolts shall be installed as bearing type connections with the threads included in shear planes (type "N" connection unless otherwise noted). All high strength bolts shall be fully pretensioned using load indicator washers or appropriate torque wrench. Foundation anchor bolts do not need to be pretensioned.
3. All galvanized bolts and nuts shall be of the same process as specified in the plans. Mixing of hot dipped galvanized bolts with mechanically galvanized nuts is prohibited.
4. All structural and miscellaneous steel shall be fabricated and erected in accordance with the latest edition of AISC specifications for design, fabrication and erection.
5. Welding shall be performed by welders holding valid certificates and having current experience in the type of welding shown on the plans. All welding shall use E70XX low hydrogen electrodes or 70ksi weldable wire unless otherwise noted on the plans. Shop welding may use 70ksi weldable wire. All welds involving reinforcing bars shall use E7018 electrodes. All welding shall conform to the latest edition of American Welding Society Standards. No tack welding of ASTM A325 or ASTM A490 bolts.
6. Grout beneath column bases or bearing plates shall be 5,000 psi (min) non-shrink flowable grout or drypack. Install grout under bearing plates before framing members are installed have been plumbed but prior to floor or roof installation. Grout depth shall be sufficient to allow grout or drypack to be placed beneath plate without voids (1-1/2" typical).

Basis For Design

Governing Building Code: 2022 CBC
Risk Category: II

Loading Information

Gravity

Roof		Ceiling		Floors		Storage and Egress	
D	Lr	D	Lr	D	L	Storage	Egress
21 psf	20 psf	10 psf	5 psf	n/a	n/a	-	-

Live loads reduced as permitted by building code

Seismic

Analysis Procedure						ap	I
ASCE 7-16 Chapter 13.3-1/13.6-1						2.5	1.0
Ss	SDS	S1	SD1	Site Class	Seismic Design Category	Fp	Rp
0.791	0.633	0.301	0.401	D-default	D	0.3164,Wp	6

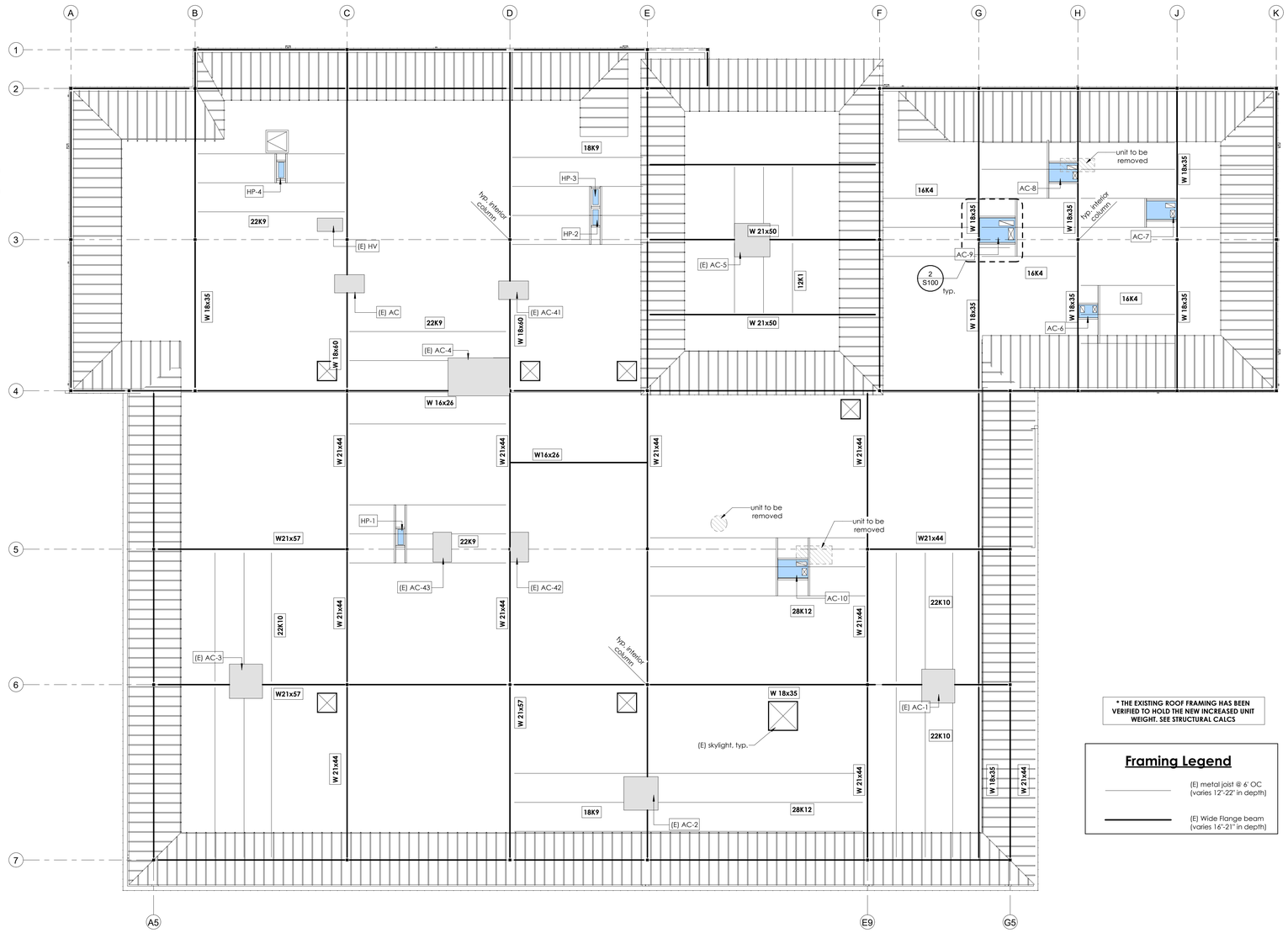
Risk Category : II

Wind

Analysis Procedure: ASCE 7-16 CH 26.10

Main Wind Force Resisting System			Component & Cladding (PSF)			
V	exposure	αz	N/A	N/A	N/A	N/A
93 mph	C	16.00 psf	N/A	N/A	N/A	N/A

Deflection Limits:
Wood Roof Elements: Trusses and Joists
Total load: L/240
Live Load: L/360

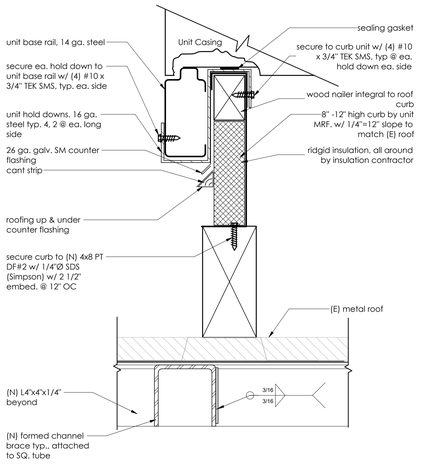


1 S100 **Roof Framing Plan**
3/32" = 1'-0"

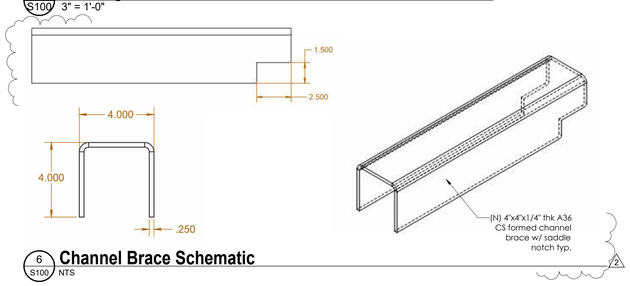
*** THE EXISTING ROOF FRAMING HAS BEEN VERIFIED TO HOLD THE NEW INCREASED UNIT WEIGHT. SEE STRUCTURAL CALCS**

Framing Legend

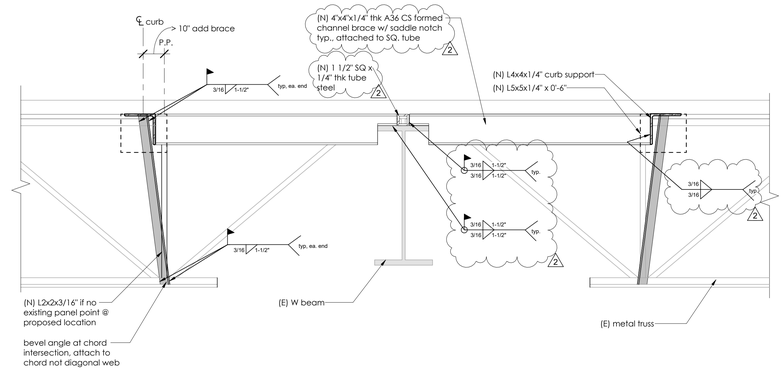
- (E) metal joist @ 6' OC (varies 12"-22" in depth)
- (E) Wide Flange beam (varies 16"-21" in depth)



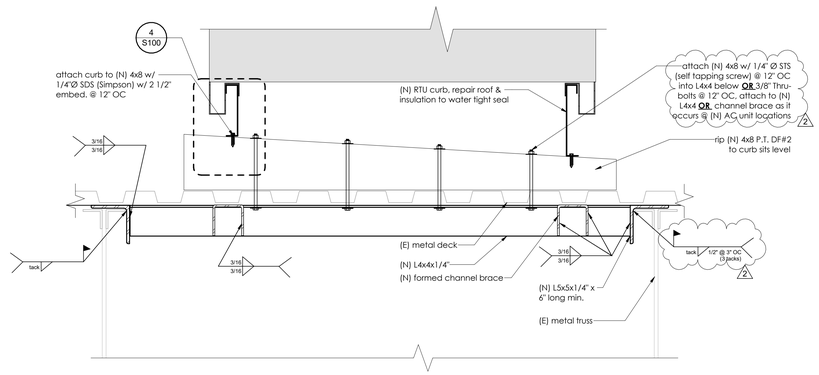
4 S100 **Mounting Detail**
3" = 1'-0"



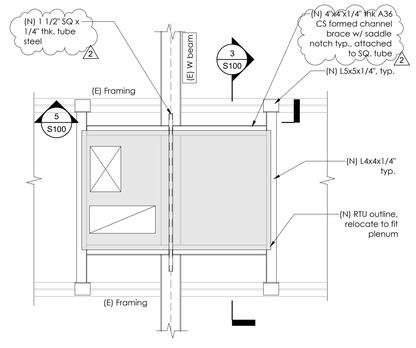
6 S100 **Channel Brace Schematic**
NTS



5 S100 **Panel Point Connection**
1 1/2" = 1'-0"



3 S100 **Typ. Roof Framing Section**
1 1/2" = 1'-0"



2 S100 **RTU Support Frame Detail, Typ.**
1/2" = 1'-0"

Code Compliance:

All work shall be performed in accordance with the following codes, including but not limited to:

2022 California Building Code
2022 California Electrical Code
2022 California Mechanical Code
2022 California Plumbing Code
2022 Building Energy Efficiency Standards
2022 California Existing Building Code
2022 California Fire Code
2022 California Residential Code
2022 California Green Building Code

Any Codes Referenced by the CBC, e.g. ASCE 7, ACI 318, 2018 IBC, AISC-360, etc.

Special Inspections:

Special Inspection shall be performed by qualified firm independent of the Contractor, Architect, Engineer of Record or Owner according to 2022 CBC Chapter 17. The Special Inspector shall observe the below list of items for conformance with the Contract Documents. The Special Inspector shall send reports to the Owner and all applicable parties. All discrepancies shall be brought to attention of the Contractor for correction. The Special Inspector shall submit a final report stating that the special inspection work, to the best of his knowledge, was performed in compliance with the plans, specifications, Codes and applicable workmanship of the CBC. Special Inspection shall be provided for the below list of items:

	Required Inspections	Periodic	Continuous
1.	1705.2.5 Field Welding	✓	
2.	Structural Steel Construction per CBC 1705.2	✓	

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Roof Framing Plan

S100

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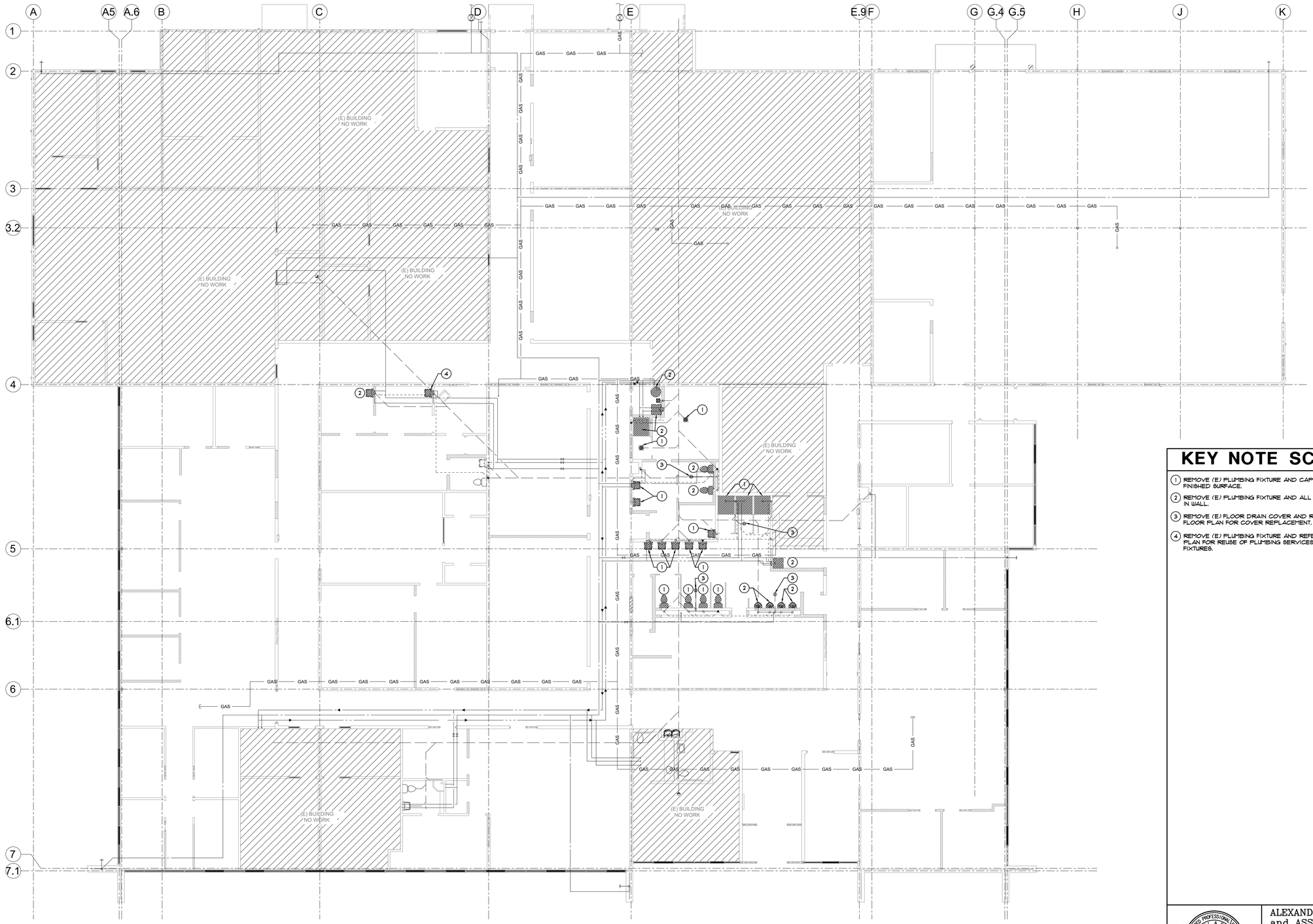

DEMOLITION PLUMBING FLOOR PLAN

SCALE: 1/8"=1'-0"

KEY NOTE SCHEDULE

1. REMOVE (E) PLUMBING FIXTURE AND CAP SERVICES BEHIND FINISHED SURFACE.
2. REMOVE (E) PLUMBING FIXTURE AND ALL PLUMBING SERVICES IN WALL.
3. REMOVE (E) FLOOR DRAIN COVER AND REFER TO PLUMBING FLOOR PLAN FOR COVER REPLACEMENT.
4. REMOVE (E) PLUMBING FIXTURE AND REFER TO PLUMBING FLOOR PLAN FOR REUSE OF PLUMBING SERVICES FOR (N) PLUMBING FIXTURES.

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DEMOLITION PLUMBING FLOOR PLAN

DP2.1

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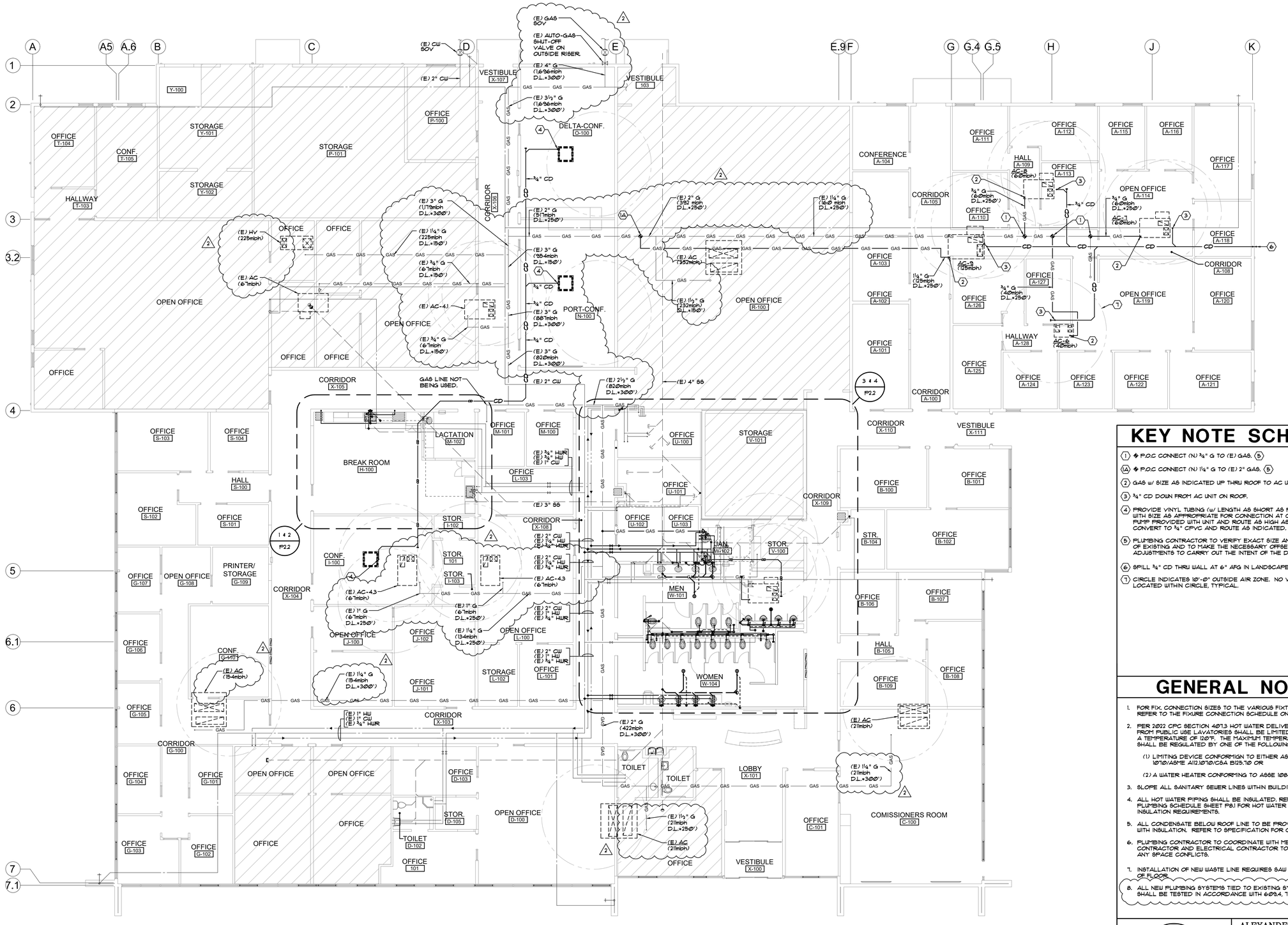

PLUMBING OVERALL FLOOR PLAN

SCALE: ⅛"=1'-0"

KEY NOTE SCHEDULE

1. ◆ P.O.C. CONNECT (N) ¾" G TO (E) GAS. (5)
2. ◆ P.O.C. CONNECT (N) 1¼" G TO (E) 2" GAS. (5)
3. GAS w/ SIZE AS INDICATED UP THRU ROOF TO AC UNIT ON ROOF.
4. ¾" CD DOWN FROM AC UNIT ON ROOF.
5. PROVIDE VINYL TUBING (w/ LENGTH AS SHORT AS POSSIBLE) WITH SIZE AS APPROPRIATE FOR CONNECTION AT CONDENSATE PUMP PROVIDED WITH UNIT AND ROUTE AS HIGH AS POSSIBLE. CONVERT TO ¾" CPVC AND ROUTE AS INDICATED.
6. PLUMBING CONTRACTOR TO VERIFY EXACT SIZE AND LOCATION OF EXISTING AND TO MAKE THE NECESSARY OFFSETS AND ADJUSTMENTS TO CARRY OUT THE INTENT OF THE DESIGN.
7. SPILL ¾" CD THRU WALL AT 6" AFG IN LANDSCAPE AREA.
8. CIRCLE INDICATES 10'-0" OUTSIDE AIR ZONE. NO VTR'S SHALL BE LOCATED WITHIN CIRCLE, TYPICAL.

GENERAL NOTES

1. FOR FIX. CONNECTION SIZES TO THE VARIOUS FIXTURES, REFER TO THE FIXURE CONNECTION SCHEDULE ON SHEET P.0.1.
2. PER 2022 CPC SECTION 407.3 HOT WATER DELIVERED FROM PUBLIC USE LAVATORIES SHALL BE LIMITED TO A TEMPERATURE OF 120°F. THE MAXIMUM TEMPERATURE SHALL BE REGULATED BY ONE OF THE FOLLOWING MEANS:
   (1) LIMITING DEVICE CONFORMIGN TO EITHER ASSE 1070/ASME A112.1070/CSA B125.70 OR
   (2) A WATER HEATER CONFORMING TO ASSE 1084.
3. SLOPE ALL SANITARY SEWER LINES WITHIN BUILDING AT ¼"/FT.
4. ALL HOT WATER PIPING SHALL BE INSULATED. REFER TO PLUMBING SCHEDULE SHEET P.6.1 FOR HOT WATER PIPE INSULATION REQUIREMENTS.
5. ALL CONDENSATE BELOW ROOF LINE TO BE PROVIDED WITH INSULATION. REFER TO SPECIFICATION FOR CLARIFICATION.
6. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND ELECTRICAL CONTRACTOR TO ELIMINATE ANY SPACE CONFLICTS.
7. INSTALLATION OF NEW WASTE LINE REQUIRES SAW CUTTING OF FLOOR.
8. ALL NEW PLUMBING SYSTEMS TIED TO EXISTING SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH 609.4, 712, AND 1213. (2)

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PLUMBING OVERALL FLOOR PLANS

P2.1

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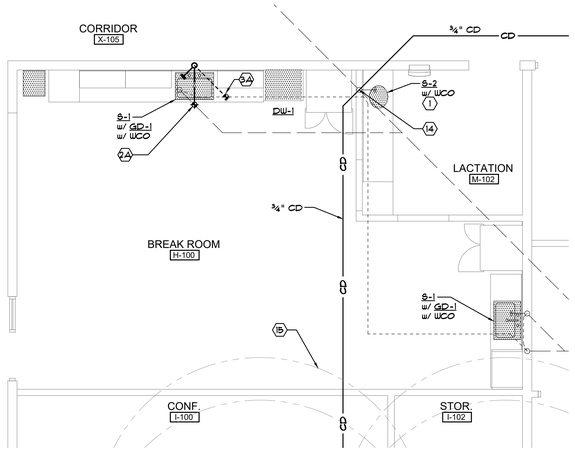

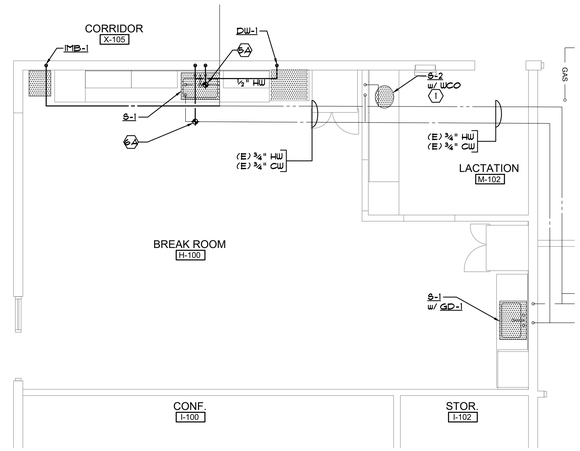

PLUMBING SEWER AND VENT PARTIAL FLOOR PLAN

1 / P2.2

SCALE: ¼"=1'-0"

PLUMBING WATER AND GAS PARTIAL FLOOR PLAN

2 / P2.2

SCALE: ¼"=1'-0"

PLUMBING SEWER AND VENT PARTIAL FLOOR PLAN

3 / P2.2

SCALE: ¼"=1'-0"

PLUMBING WATER AND GAS PARTIAL FLOOR PLAN

4 / P2.2

SCALE: ¼"=1'-0"

KEY NOTE SCHEDULE

1. INSTALL (N) PLUMBING FIXTURE IN LOCATION OF (E) REMOVED PLUMBING FIXTURE UTILIZING (E) PLUMBING SERVICES.
2A. ◆ P.O.C. CONNECT (N) 2" SS TO (E) SEWER SERVICE. (10)
2B. ◆ P.O.C. CONNECT (N) 3" SS TO (E) SEWER SERVICE. (10)
2C. ◆ P.O.C. CONNECT (N) 4" SS TO (E) SEWER SERVICE. (10)
4A. ◆ P.O.C. CONNECT (N) 1½" HV TO (E) SEWER SERVICE. (10)
4B. ◆ P.O.C. CONNECT (N) 2" VR TO (E) 2½" VTR. (10)
4. ◆ P.O.C. CONNECT (N) ¾" G TO (E) GAS. (10)
5A. ◆ P.O.C. CONNECT (N) ¾" CW. (10)
5B. ◆ P.O.C. CONNECT (N) 1" CW. (10)
5C. ◆ P.O.C. CONNECT (N) 1½" CW. (10)
5D. ◆ P.O.C. CONNECT (N) 2" CW. (10)
6A. ◆ P.O.C. CONNECT (N) ¾" HW. (10)
6B. ◆ P.O.C. CONNECT (N) 1" HW. (10)
7. ◆ P.O.C. CONNECT (N) ¾" HWR. (10)
8. WH-1 WATER HEATER w/ 1" CW, 1" HW & ¾" HWR CONNECTIONS. SPILL FULL SIZED T&P RELIEF AND ¾" CD TO CORNER OF MOP SINK w/ ELBOW TURNED DOWN AND REQUIRED AIRGAP. REFER TO DETAIL: 1 / P8.1
9. PROVIDE ISOLATION VALVE IN CORRIDOR CEILING SPACE.
10. PLUMBING CONTRACTOR TO VERIFY EXACT SIZE AND LOCATION OF EXISTING AND TO MAKE THE NECESSARY OFFSETS AND ADJUSTMENTS TO CARRY OUT THE INTENT OF THE DESIGN.
11. GAS w/ SIZE AS INDICATED UP THRU ROOF TO AC UNIT ON ROOF.
12. ¾" CD DOWN FROM AC UNIT ON ROOF.
13. SPILL ¾" CD TO CORNER OF SS-1, w/ ELBOW TURNED DOWN AND REQUIRED AIRGAP.
14. SPILL ¾" CD TO SINK TAILPIECE. REFER TO DETAIL: 10 / P8.1
15. CIRCLE INDICATES 10'-0" OUTSIDE AIR ZONE. NO VTR'S SHALL BE LOCATED WITHIN CIRCLE.
16. PROVIDE 3" OUTSIDE AIR PIPE AND 3" FLUE UP THRU ROOF. REFER TO DETAIL: 11 / P8.1

GENERAL NOTES

1. FOR FIX. CONNECTION SIZES TO THE VARIOUS FIXTURES, REFER TO THE FIXURE CONNECTION SCHEDULE ON SHEET P8.1.
2. PER 2022 CPC SECTION 407.3 HOT WATER DELIVERED FROM PUBLIC USE LAVATORIES SHALL BE LIMITED TO A TEMPERATURE OF 120°F. THE MAXIMUM TEMPERATURE SHALL BE REGULATED BY ONE OF THE FOLLOWING MEANS:
   (1) LIMITING DEVICE CONFORMIGN TO EITHER ASSE 1070/ASME A112.1070/CSA B125.70 OR
   (2) A WATER HEATER CONFORMING TO ASSE 1084.
3. SLOPE ALL SANITARY SEWER LINES WITHIN BUILDING AT ¼"/FT.
4. ALL HOT WATER PIPING SHALL BE INSULATED. REFER TO PLUMBING SCHEDULE SHEET P8.1 FOR HOT WATER PIPE INSULATION REQUIREMENTS.
5. ALL CONDENSATE BELOW ROOF LINE TO BE PROVIDED WITH INSULATION. REFER TO SPECIFICATION FOR CLARIFICATION.
6. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND ELECTRICAL CONTRACTOR TO ELIMINATE ANY SPACE CONFLICTS.
7. INSTALLATION OF NEW WASTE LINE REQUIRES SAW CUTTING OF FLOOR.
8. ALL NEW PLUMBING SYSTEMS TIED TO EXISTING SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH 609.4, 712, AND 1213. 2

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PLUMBING PARTIAL FLOOR PLANS

P2.2

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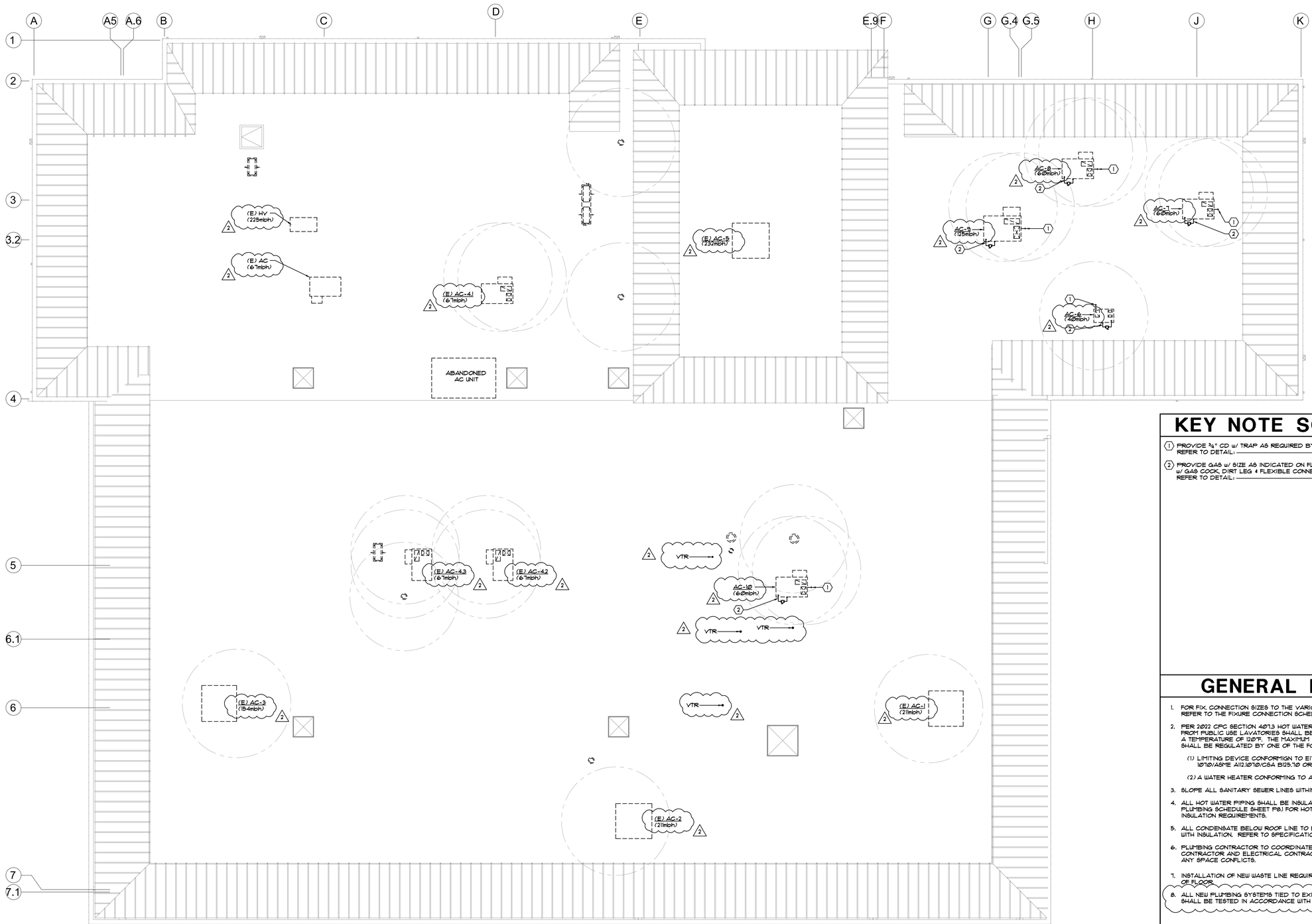

PLUMBING OVERALL ROOF PLAN

SCALE: 1/8"=1'-0"

KEY NOTE SCHEDULE

1. PROVIDE ¾" CD w/ TRAP AS REQUIRED BY UNIT MFGR. REFER TO DETAIL: 4/P8.1
2. PROVIDE GAS w/ SIZE AS INDICATED ON FLOOR PLAN. PROVIDE w/ GAS COCK, DIRT LEG & FLEXIBLE CONNECTION. REFER TO DETAIL: 3/P8.1

GENERAL NOTES

1. FOR FIX. CONNECTION SIZES TO THE VARIOUS FIXTURES, REFER TO THE FIXURE CONNECTION SCHEDULE ON SHEET P8.1.
2. PER 2022 CPC SECTION 407.3 HOT WATER DELIVERED FROM PUBLIC USE LAVATORIES SHALL BE LIMITED TO A TEMPERATURE OF 120°F. THE MAXIMUM TEMPERATURE SHALL BE REGULATED BY ONE OF THE FOLLOWING MEANS:
   (1) LIMITING DEVICE CONFORMIGN TO EITHER ASSE 1070/ASME A112.1070/CSA B125.70 OR
   (2) A WATER HEATER CONFORMING TO ASSE 1084.
3. SLOPE ALL SANITARY SEWER LINES WITHIN BUILDING AT ¼"/FT.
4. ALL HOT WATER PIPING SHALL BE INSULATED. REFER TO PLUMBING SCHEDULE SHEET P8.1 FOR HOT WATER PIPE INSULATION REQUIREMENTS.
5. ALL CONDENSATE BELOW ROOF LINE TO BE PROVIDED WITH INSULATION. REFER TO SPECIFICATION FOR CLARIFICATION.
6. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND ELECTRICAL CONTRACTOR TO ELIMINATE ANY SPACE CONFLICTS.
7. INSTALLATION OF NEW WASTE LINE REQUIRES SAW CUTTING OF FLOOR.
8. ALL NEW PLUMBING SYSTEMS TIED TO EXISTING SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH 609.4, 712, AND 1213. 2

NOT FOR CONSTRUCTION

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4	08.31.26	BID SET

PLUMBING OVERALL ROOF PLANS

P3.1

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2022 NON-RESIDENTIAL COMPLIANCE MANUAL HOT WATER PIPE INSULATION MANDATORY REQUIREMENTS

4.5.1.1 REQUIREMENTS FOR PIPE INSULATION

MOST PIPING CONVEYING MECHANICALLY HEATED OR CHILLED FLUIDS FOR SPACE CONDITIONING OR SERVICE WATER HEATING MUST BE INSULATED. THE REQUIRED THICKNESS OF PIPING INSULATION DEPENDS ON THE TEMPERATURE OF THE FLUID PASSING THROUGH THE PIPE, THE PIPE DIAMETER, THE FUNCTION OF THE PIPE WITHIN THE SYSTEM, AND THE INSULATION'S THERMAL CONDUCTIVITY.

TABLE 4-15 SPECIFIES THE REQUIREMENTS IN TERMS OF INCHES OF INSULATION WITH CONDUCTIVITY WITHIN A SPECIFIC RANGE. THESE CONDUCTIVITIES ARE TYPICAL FOR FIBERGLASS OR FOAM PIPE INSULATION. PIPING WITHIN FAN COIL UNITS AND WITHIN OTHER HEATING OR COOLING EQUIPMENT SHOULD BE INSULATED BASED ON THE PIPE DIAMETER AND THE REQUIRED VALUE IN THE TABLE.

PIPING THAT DOES NOT REQUIRE INSULATION INCLUDES THE FOLLOWING:

1. FACTORY INSTALLED PIPING WITHIN SPACE-CONDITIONING EQUIPMENT CERTIFIED UNDER §110.1 OR §110.2, SEE SECTION 4.2 OF THIS CHAPTER. NATIONALLY RECOGNIZED CERTIFICATION PROGRAMS THAT ARE ACCEPTED BY THE ENERGY COMMISSION FOR CERTIFYING EFFICIENCIES OF APPLIANCES AND EQUIPMENT ARE CONSIDERED TO MEET THE REQUIREMENTS FOR THIS EXCEPTION.

2. PIPING THAT CONVEYS FLUID WITH A DESIGN OPERATING TEMPERATURE RANGE BETWEEN 60 DEGREES F AND 105 DEGREES F, SUCH AS COOLING TOWER PIPING OR PIPING IN WATER LOOP HEAT PUMP SYSTEMS.

3. WHERE THE HEAT GAIN OR HEAT LOSS, TO OR FROM PIPING WITHOUT INSULATION, WILL NOT INCREASE BUILDING SOURCE ENERGY USE. FOR EXAMPLE, PIPING CONNECTING FIN-TUBE RADIATORS WITHIN THE SAME SPACE WOULD BE EXEMPT; AS WOULD LIQUID PIPING IN A SPLIT SYSTEM AIR CONDITIONING UNIT.

   THIS EXCEPTION WOULD NOT EXEMPT PIPING IN SOLAR SYSTEMS. SOLAR SYSTEMS TYPICALLY HAVE BACKUP DEVICES THAT WILL OPERATE MORE FREQUENTLY IF PIPING LOSSES ARE NOT MINIMIZED.

4. PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION. METAL PIPING THAT PENETRATES METAL FRAMING SHALL USE GROMMETS, PLUGS, WRAPPING OR OTHER INSULATING MATERIAL TO ASSURE THAT NO CONTACT IS MADE WITH THE METAL FRAMING.

CONDUCTIVITIES AND THICKNESSES LISTED IN TABLE 4-15 ARE TYPICAL FOR FIBERGLASS AND WHEN INSULATING MATERIALS ARE USED THAT HAVE CONDUCTIVITIES DIFFERENT FROM THOSE LISTED HERE FOR THE APPLICABLE FLUID RANGE, SUCH AS CALCIUM SILICATE, EQUATION 4-1 MAY BE USED TO CALCULATE THE REQUIRED INSULATION THICKNESS.

WHEN A PIPE CARRIES COLD FLUIDS, CONDENSATION OF WATER VAPOR WITHIN THE INSULATION MATERIAL MAY IMPAIR THE EFFECTIVENESS OF THE INSULATION, PARTICULARLY FOR APPLICATIONS IN VERY HUMID ENVIRONMENTS OR FOR FLUID TEMPERATURES BELOW 40 DEGREES F. EXAMPLES INCLUDE REFRIGERANT SUCTION PIPING AND LOW-TEMPERATURE THERMAL ENERGY STORAGE (TES) SYSTEMS. IN THESE CASES, MANUFACTURERS SHOULD BE CONSULTED, AND CONSIDERATION GIVEN TO LOW PERMEABILITY VAPOR BARRIERS, OR CLOSED-CELL FOAMS. THE ENERGY CODE ALSO REQUIRES THAT PIPE INSULATION BE PROTECTED FROM DAMAGE BY MOISTURE, UV AND PHYSICAL ABRASION INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

INSULATION EXPOSED TO WEATHER SHALL BE INSTALLED WITH A COVER SUITABLE FOR OUTDOOR SERVICE. THE COVER SHALL BE WATER RETARDANT AND PROVIDES SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. INSULATION MUST BE PROTECTED BY AN EXTERNAL COVERING UNLESS THE INSULATION HAS BEEN APPROVED FOR EXTERIOR USE USING A RECOGNIZED FEDERAL TEST PROCEDURE. ADHESIVE TAPE SHALL NOT BE USED AS PROTECTION FOR INSULATION EXPOSED TO WEATHER.

1. INSULATION COVERING CHILLED WATER PIPING AND REFRIGERANT SUCTION PIPING LOCATED OUTSIDE THE CONDITIONED SPACE SHALL HAVE A CLASS I OR CLASS II VAPOR RETARDER. ALL PENETRATIONS AND JOINTS OF WHICH SHALL BE SEALED.

2. PIPE INSULATION BURIED BELOW GRADE MUST HAVE A WATERPROOF, UNCRUSHABLE CASING OR SLEEVE. THE ENERGY CODE DOES NOT DEFINE "UNCRUSHABILITY" AS ANY MATERIAL CAN BE CRUSHED, GIVEN ENOUGH PRESSURE, AND THUS IT IS LEFT TO THE PROFESSIONAL JUDGEMENT OF THE DESIGNER.

   IF THE CONDUCTIVITY OF THE PROPOSED INSULATION DOES NOT FALL INTO THE CONDUCTIVITY RANGE LISTED IN TABLE 4-15, THE MINIMUM THICKNESS MUST BE ADJUSTED USING THE FOLLOWING EQUATION:

TABLE 4-15a HOT WATER INSULATION REQUIREMENTS

FLUID OPERATING TEMPERATURE, RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (IN.)				
	CONDUCTIVITY Btu•in./(hr•ft²•°F)	MEAN RATING TEMP. °F	<1"	1" TO <1½"	1½" TO <4"	4" TO ≤ 8"	>8"
			INSULATION THICKNESS (in)				
105–140	0.22–0.28	100	1.0	1.5	1.5	1.5	1.5

TABLE 4-15b HOT WATER INSULATION (R-VALUE)

FLUID OPERATING TEMPERATURE, RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (IN.)				
	CONDUCTIVITY Btu•in./(hr•ft²•°F)	MEAN RATING TEMP. °F	<1"	1" TO <1½"	1½" TO <4"	4" TO ≤8"	>8"
			INSULATION THICKNESS (in)				
105–140	0.22–0.28	100	R 7.7	R 12.5	R 11	R 9	R 8

2022 COMMERCIAL CALIFORNIA GREEN CODE NOTES

CODE REQUIREMENTS	LOCATION FOUND
5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING: 5.303.3.1 WATER CLOSETS. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS. NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.	REFER TO PLUMBING FIXTURE SCHEDULE ON THIS SHEET FOR REQUIRED FLOW RATES.
5.303.3.2 URINALS. 5.303.3.2.1 WALL-MOUNTED URINALS. THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH. 5.303.3.2.2 FLOOR-MOUNTED URINALS. THE EFFECTIVE FLUSH VOLUME OF FLOOR-MOUNTED URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.	REFER TO PLUMBING FIXTURE SCHEDULE ON THIS SHEET FOR REQUIRED FLOW RATES.
5.303.3.4 FAUCETS AND FOUNTAINS. 5.303.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS. LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTE AT 60 PSI. 5.303.3.4.2 KITCHEN FAUCETS. KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI. 5.303.4.4.3 WASH FOUNTAINS. WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI]. 5.303.4.4.4 METERING FAUCETS. METERING FAUCETS SHALL NOT DELIVER MORE THAN .20 GALLONS PER CYCLE. 5.303.4.4.5 METERING FAUCETS FOR WASH FOUNTAINS. METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE/20 [RIM SPACE (INCHES) AT 60 PSI]. NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.	REFER TO PLUMBING FIXTURE SCHEDULE ON THIS SHEET FOR REQUIRED FLOW RATES.

WATER HEATER SIZING CALCULATION

FIXTURES	NO. UNITS	× GPH	TOTAL GPH
110° WATER			
LAVATORY	8	× 5 =	40
SINK	5	× 5 =	25
SERVICE SINK	1	× 15 =	15
		× =	
		TOTAL =	80

CALCULATING THE BTU (BRITISH THERMAL UNIT) FOR GAS WATER HEATER:

80 GPH × (110-60) DEGREES RISE × 11 = 44000 BTU

* 8.33 lbs/gal OF WATER = 11 (ROUNDED OFF = 11)
0.75 (thermal efficiency of gas)

THE GAS HOT WATER HEATER WITH AT LEAST A RATING OF 44000 BTU

USE BRADFORD WHITE ULG2PDV50H50N INPUT = 50000 BTU

2022 CALIFORNIA PLUMBING CODE HANGERS AND SUPPORTS TABLE (313.3)

MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
CAST IRON HUBLESS	SHIELDED COUPLING	EVERY OTHER JOINT, UNLESS OVER 4 FEET THEN SUPPORT EACH JOINT 1,2,3,4	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET.
COPPER & COPPER ALLOYS	SOLDERED, BRAZED THREADED, OR MECHANICAL	1-1/2" AND SMALLER, 6 FEET; 2" AND LARGER, 10 FEET	EACH FLOOR, NOT TO EXCEED 10 FEET 5
STEEL PIPE FOR WATER OR DMV	THREADED OR WELDED	3/4" AND SMALLER, 6 FEET; 2" AND LARGER, 12 FEET	EVERY OTHER FLOOR NOT TO EXCEED 25 FEET 3
STEEL PIPE FOR GAS	THREADED OR WELDED	1/2", 6 FEET; 3/4" AND 1" 8 FEET; 1-1/4" AND LARGER, 10 FEET	1/2", 6 FEET; 3/4" AND 1" 8 FEET; 1-1/4" EVERY FLOOR LEVEL
SCHEDULE 40 PVC and ABS DWV	SOLVENT CEMENTED	ALL SIZES, 4 FEET; ALLOW FOR EXPANSION EVERY 30 FEET. 3	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET
CPVC	SOLVENT CEMENTED	1" AND SMALLER, 3 FEET; 1-1/4" AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
CPVC-AL-CPVC	SOLVENT CEMENTED	1/2" , 5 FEET, 3/4", 6'5" 1", 6 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
LEAD	WIPED OR BURNED	CONTINUOUS SUPPORT	NOT TO EXCEED 4 FEET
STEEL	MECHANICAL	IN ACCORDANCE WITH STANDARDS ACCEPTABLE TO THE AHJ	
PEX	COLD EXPANSION INSERT & COMPRESSION	1" AND SMALLER, 32 INCHES; 1-1/4" AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
PEX-AL-PEX PEX-AL-PE	METAL INSERT & METAL COMPRESSION	1/2", 3/4", 1" ALL SIZES 98"	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
PE-RT	INSERT AND COMPRESSION	1" AND SMALLER, 32 INCHES; 1-1/4" AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
POLYPROPYLENE	FUSION WELD OR MECHANICAL	1" AND SMALLER, 32 INCHES; 1-1/4" AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES

NOTES:
1 SUPPORT ADJACENT TO JOINT, NOT TO EXCEED 18 INCHES.
2 BRACE NOT TO EXCEED 40 FOOT INTERVALS TO PREVENT HORIZONTAL MOVEMENT.
3 SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION.
4 HANGERS SHALL NOT BE PLACED ON THE COUPLING.
5 VERTICAL WATER LINES SHALL BE PERMITTED TO BE SUPPORTED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRINCIPLES WITH REGARD TO EXPANSION AND CONTRACTION, WHERE FIRST APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

2022 CALIFORNIA PLUMBING CODE SUPPORT OF GAS PIPING TABLE (1210.3.5.1)

STEEL PIPE NOMINAL SIZE OF PIPE (inches)	SPACING OF SUPPORTS (feet)	OF TUBING SMOOTH-WALL (inhes O.D.)	SPACING OF SUPPORTS (feet)
1/2	6	1/2	4
3/4 or 1	8	5/8 or 3/4	6
1-1/4 OR LARGER (HORIZONTAL)	10	7/8 or 1 (HORIZONTAL)	8
1-1/4 OR LARGER (VERTICAL)	EVERY FLOOR LEVEL	1 OR LARGER (VERTICAL)	EVERY FLOOR LEVEL

2022 CALIFORNIA PLUMBING CODE HANGER ROD SIZES TABLE (313.6)

PIPE AND TUBE SIZE	ROD SIZE
(INCHES)	(INCHES)
1/2 - 4	3/8
5 -8	1/2
10 - 12	5/8

PLUMBING FIXTURE SCHEDULE

MARK	MAKE & MODEL	DESCRIPTION	TRIM	REMARKS	REDUCED DEMAND (GPM)	SPECIFIED FIXTURE DEMAND (GPM)
WC-1	AMERICAN STANDARD 3461.001	1.28 GPF FLUSH VALVE ACCESSIBLE WATER CLOSET	SLOAN G2 8113-1.28 GPF	BEMIS 1955SSCT WHITE SEAT MIFAB MC-10 or MC-10D WATER CLOSET CARRIER	1.28 GPF	1.28 GPF
WC-2	AMERICAN STANDARD 3461.001	1.28 GPF FLUSH VALVE ACCESSIBLE WATER CLOSET	SLOAN G2 8113-1.28 GPF	BEMIS 1955SSCT WHITE SEAT MIFAB MC-12 WATER CLOSET CARRIER	1.28 GPF	1.28 GPF
UR-1	AMERICAN STANDARD PINTBROOK 6002.001.020	URINAL (TOP SPUD)	SLOAN G2 8186-0.125	ZURN Z-1222 CARRIER	0.125 GPF	0.125 GPF
UR-2	AMERICAN STANDARD PINTBROOK 6002.001.020	ACCESSIBLE URINAL (TOP SPUD)	SLOAN G2 8186-0.125	ZURN Z-1222 CARRIER MOUNTED PER ADA REQUIREMENTS	.125 GPF	.125 GPF
LAV-1	KOHLER LADENA K-2214	LAVATORY UNDERMOUNT	CHICAGO (ADA) 280-A11N-17ABCP ASSE 1070 CERTIFIED		.2 GPM / CYCLE	.08 GPM / CYCLE
SS-1	FIAT MSB-2424	24"x24" SERVICE SINK	#830-AA FAUCET	PROVIDE w/ HOSE AND HOSE BRACKET #832-AA AND MOP HANGER #889-CC		
S-1	KOHLER VAULT K-3894-4	TOP/UNDERMOUNT SINK 22"x25"x6" DP	CRUE K-22974	TOUCHLESS FAUCET. 120V, 0.15A, 50/60HZ	1.8 GPM	1.5 GPM
S-2	AMERICAN STANDARD 0496.221	UNDERMOUNT ACCESSIBLE OVAL LAVATORY	CHICAGO (ADA) 280-A11N-17ABCP ASSE 1070 CERTIFIED	DEARBORN BRASS 704-1 P-TRAP AND JUST J-ADA-11S-FS DRAIN TRUEBRO LAV-GUARD #101 C-2 PROVIDE BRASS CRAFT POLISHED CHROMIUM PLATED COPPER TUBE AND COMPRESSION SHUT-OFF STOPS R15200S/R1520AS OR S1715ABC.	.2 GPM / CYCLE	.08 GPM / CYCLE
GD-1	IN-SINK-ERATOR MODEL SS-50	1/2 HP GARBAGE DISPOSER	1/2 HP, 115V-1ø 60Hz			
HB-1	WOODFORD MODEL 24	WALL HYDRANT (INTERIOR)	BRASS CASTING & CHROME FINISH	NIDEL MODEL 34HF VACUUM BREAKER		
WH-1	BRADFORD WHITE ULG2PDV50H50N	48 GALLON GAS ULTRA LOW-NOx WATER HEATER	W/ WATTS 40 XL T&P RELIEF	OPER. WT.=601# INPUT = 50 MBH 48 GPH RECOVERY @ 100° F RISE ELECT: 110V-1ø, 60HZ , 3.1A		
EXP-1	AMTROL ST-5	2.1 GALLON WATER HEATER EXPANSION TANK	ACCEPTANCE VOLUME= .9 GALLON	OPER. WT. = 27#		
HWCP-1	ENOVATIVE AUTOHOT RO55A	HOT WATER CIRCULATION PUMP	4 GPM @ 6' HEAD 87 WATTS, .75 AMPS 115V. 1ø			
WCO	ZURN ZS-1446	WALL CLEANOUT				
FCO	ZURN ZN-1400	FLOOR CLEANOUT		SEE SPECIFICATIONS FOR TOP		
FD-1	ZURN ZN-415-S	SQUARE FLOOR DRAIN	w/ TP-1 WATERLESS TRAP PRIMER	NICKEL BRONZE HEEL-PROOF STRAINER		
TP-1	THE SURE SEAL SS2009V	2" FLOOR DRAIN TRAP SEALER (WATERLESS)				
IMB-1	SPECIALTY PRODUCTS OB-817-LL	ICE MAKER BOX		COPPER CONNECTIONS w/ WATER HAMMER ARRESTORS		
WHA-1	ZURN Z-1700	WATER HAMMER ARRESTOR	SEE PLAN FOR SIZE	PROVIDE ELMDOR DW-SS-CL 12"x12" STAINLESS STEEL ACCESS PANEL WITH CYLINDER LOCK		
DF-1	HAWS 1211SF	WALL MOUNT ACCESSIBLE WATER COOLER w/ BOTTLE FILLER		ELECT: 115V, 60HZ, 350 WATTS, 5 AMPS		
DW-1	LSP PRODUCTS 87934	DISHWASHER OUTLET BOX FIRE RATED		SWEAT CONNECTION COMPLETE w/ WATER HAMMER ARRESTER		

FIXTURE CONNECTION SIZE

FIXTURE	SYM	WASTE BRANCH	WASTE OUTLET	TRAP	VENT	COLD WATER BRANCH	COLD WATER OUTLET	HOT WATER OUTLET
WATER CLOSET (FV)	WC	4"	4"	–	2",4"	1½"	1½"	–	–
URINAL	UR	2"	2"	2"	2"	1"	1"	–	–
LAVATORY	LAV	2"	1½"	1½"	1½"	3/4"	1/2"	3/4"	1/2"
SINK	S	2"	1½"	1½"	1½"	3/4"	1/2"	3/4"	1/2"
SERVICE SINK	SS	2"	2"	2"	1½"	3/4"	1/2"	3/4"	3/4"
DRINKING FOUNTAIN	DF	1½"	1½"	1½"	1½"	3/4"	1/2"	–	–
HOSE BIBB	HB	–	–	–	–	3/4"	3/4"	–	–
FLOOR DRAIN 2"& 3"	FD	2",4"	2",3"	2",3"	2"	–	–	–	–

PLUMBING LEGEND

SYMBOL	DESCRIPTION
CW	COLD WATER LINE
HW	HOT WATER LINE
SS	SANITARY SEWER LINE
HV	HORIZONTAL VENT
RWL	RAIN WATER LEADER
CD	CONDENSATE DRAIN
CO	CLEAN OUT
	WALL CLEAN OUT
FCO	FLOOR CLEAN OUT
YCO	YARD CLEAN OUT TO GRADE
	FLOOR DRAIN
	FLOOR SINK
	TRAP PRIMER
HB	HOSE BIBB
	GATE VALVE
SOV	SHUT OFF VALVE
	BALANCING VALVE
	GAS COCK
	GLOVE VALVE
	PRESSURE REDUCING VALVE (PRV)
	CIRCUIT SETTER BALANCING VALVE
	CHECK VALVE
	EXPANSION JOINT
WHA PSIG	WATER HAMMER ARRESTER WITH SIZE
V, VR, VTR	VENT, VENT RISER, VENT THRU ROOF
SS, SSD	SEWER, SANITARY SEWER DROP
CW, D, R	COLD WATER (DROP)(RISER)
HW, D, R	HW SUPPLY (DROP)(RISER)
HWR	HOT WATER RETURN
THW	TEMPERED HOT WATER
G	NATURAL GAS LOW PRESSURE
MPG	MEDIUM PRESSURE GAS
HPG	HIGH PRESSURE GAS
LPG	PROPANE GAS
CA	COMPRESSED AIR
DL	DRAIN LINE
DS	DOWN SPOUT
RD	ROOF DRAIN
AD	AREA DRAIN
AC	ABOVE CEILING
BG	BELOW GRADE
MV	MIXING VALVE
WC	WATER CLOSET
UR	URINAL
LAV	LAVATORY
S	SINK
SS	SERVICE SINK
WM	WASHING MACHINE
DF	DRINKING FOUNTAIN
GD	GARGABE DISPOSAL
F	FIRE PROTECTION LINE
FHC	FIRE HOSE CABINET
FHS	FIRE HOSE STANDPIPE
INV.	INVERT ELEVATION
FG	FINISHED GARDE
F/G	FUEL GAS
P.O.C.	POINT OF CONNECTION
AP	ACCESS PANEL
CI	CAST IRON
VC	VITRIFIED CLAY
℄	CENTER LINE
HDR	HEADER
DN	DOWN
MBH	THOUSANDS OF BTU PER HOUR
NIPC	NOT IN PLUMBING CONTRACT
(P)	UNDER PLUMBING CONTRACT
D.L.	DEVELOPED LENGTH

PLUMBING FIXTURE TABLE

FIXTURE	QTY	CW DEMAND	TOTAL CW	HW DEMAND	TOTAL HW	DFU	Total DFU
WATER CLOSET (FV)	14	5.0	70.00 FU	0	0.00 FU	4	56
WATER CLOSET (FT)	1	2.5	2.50 FU	0	0.00 FU	4	4
LAVATORY	12	1.0	12.00 FU	1.0	12.00 FU	1	12
SINK	2	1.5	3.00 FU	1.5	3.00 FU	2	4
SERVICE SINK	1	3.0	3.00 FU	3.0	3.00 FU	3	3
DRINKING FOUNTAIN	5	0.5	2.50 FU	0	0.00 FU	2	10
SHOWER	1	2.0	2.00 FU	1.5	1.50 FU	2	2
(E) HOSE BIBB	1	2.5	2.50 FU	0	0.00 FU	0	0
(E) ADDITIONAL HOSE BIBB	5	1.0	5.00 FU	0	0.00 FU	0	0
(N) ADDITIONAL HOSE BIBB	5	1.0	5.00 FU	0	0.00 FU	0	0
FLOOR DRAIN	4	0.0	0.00 FU	0	0.00 FU	2	8
TOTAL WATER DEMAND (FU)			107.50 FU		19.50 FU		
TOTAL GPM			70 GPM				
TOTAL SANITARY SEWER DEMAND							93

PLUMBING ENGINEERING DATA

PRESSURE AVAILABLE AT MAIN (PER AS-BUILT)		40 PSI
PRESSURE LOSS THRU (E) 2" METER (PER AS-BUILT)		3.7 PSI
PRESSURE LOSS DUE TO HEIGHT	4 FT	1.7 PSI
PRESSURE LOSS FROM BACKFLOW PREVENTER (PER AS-BUILT)		0.0 PSI
PRESSURE LOSS FROM WATER SOFTENER		0.0 PSI
PRESSURE LOSS FROM OTHER DEVICES		0.0 PSI
TOTAL PRESSURE LOSS		5.4 PSI
PRESSURE REQUIRED AT HIGHEST FIXTURE		20.0 PSI
PRESSURE AVAILABLE FOR FRICTION LOSS		14.6 PSI
TOTAL DEVELOPED LENGTH OF RUN		300.0 FT
MAXIMUM ALLOWABLE FRICTION LOSS		4.9 PSI/100 FT

DOMESTIC COLD WATER SIZING CHART

PIPE SIZE	F.U. F.T.	F.U. F.V.
½"	1	--
¾"	6	--
1"	15	--
1¼"	30	--
1½"	58	15
2"	215	102
2½"	469	351

THE SIZING CHART IS BASED ON THE 2022 CPC APPENDIX 'A' WITH A ΔP OF 4.9 PSI PER 100 FT w/ MAXIMUM VELOCITY OF 8ft/SEC.

DOMESTIC HOT WATER SIZING CHART

PIPE SIZE	F.U. F.T.	F.U. F.V.
½"	1	--
¾"	6	--
1"	15	--
1¼"	28	--
1½"	46	--
2"	119	--
2½"	245	--

THE SIZING CHART IS BASED ON THE 2022 CPC APPENDIX 'A' WITH A ΔP OF 4.9 PSI PER 100 FT w/ MAXIMUM VELOCITY OF 5ft/SEC.

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Port of Stockton
Building 315 Alteration - Phase (2)
315 Fyffe Ave.
Stockton, CA 95203

WMB Project No. 19-095

PUBLISH HISTORY:

Δ	DATE	PURPOSE
	10.08.25	INITIAL SUBMITTAL
1	10.29.25	COORDINATION
2	12.12.25	PLAN CHECK #1
4	08.31.26	BID SET

PLUMBING SCHEDULES

P8.0

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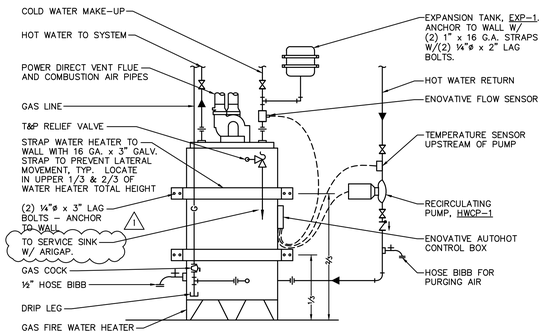
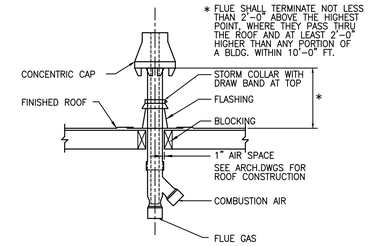


GAS POWER DIRECT VENT WATER HEATER DETAIL

NOT TO SCALE

1



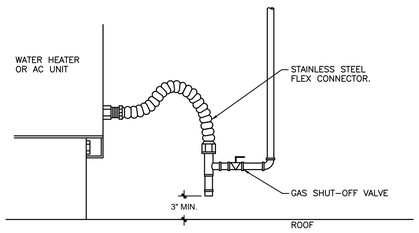
A CONCENTRIC VENT KIT ALLOWS VENT AND COMBUSTION–AIR PIPES TO TERMINATE THROUGH A SINGLE EXIT IN A ROOF OR SIDE WALL.

ONE PIPE RUNS INSIDE THE OTHER ALLOWING VENTING THROUGH THE INNER PIPE AND COMBUSTION AIR TO BE DRAWN IN THROUGH THE OUTER PIPE.

WATER HEATER CONCENTRIC FLUE DETAIL

NOT TO SCALE

2



GAS CONNECTION DETAIL

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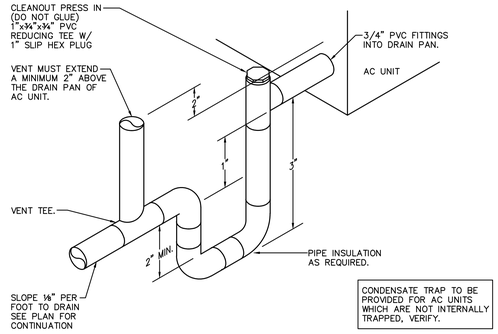
3



CONDENSATE TRAP DETAIL

NOT TO SCALE

4

FLOOR CLEANOUT DETAIL

NOT TO SCALE

5

WALL CLEANOUT DETAIL

NOT TO SCALE

6

FLOOR DRAIN DETAIL

NOT TO SCALE

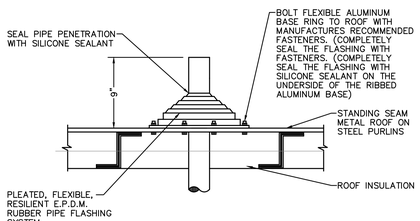
7

PIPE HANGER SCHEDULE		
PIPE SIZE	HANGER ROD	BOLT
½" THRU 3½"	⅜"	⅜"
4" THRU 12"	½"	½"
2" THRU 2½"	⅜"	⅜"
3"	½"	½"

PIPE SUPPORT DETAIL

NOT TO SCALE

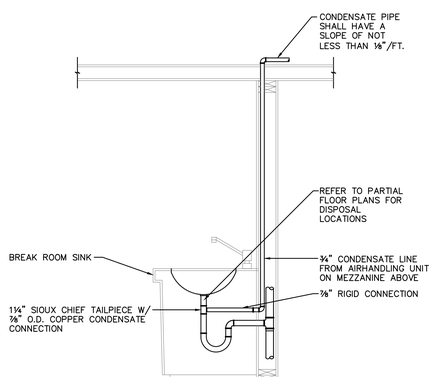
8



VENT THRU ROOF DETAIL

NOT TO SCALE

9



CONDENSATE DRAIN DETAIL

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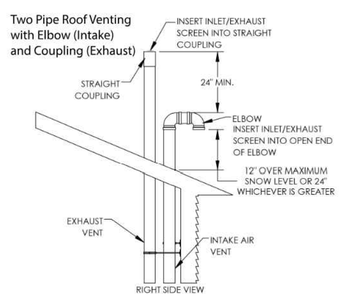
10



NOTE: VENT MUST BE AT LEAST 12" OVER MAXIMUM SNOW LEVEL OR 24" WHICHEVER IS GREATER - CHECK WITH LOCAL CODE REQUIREMENTS.

LP-517-JJ
12/29/15

WATER HATER FLUE DETAIL

NOT TO SCALE

11

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PLUMBING SPECIFICATIONS

PART 1 GENERAL

1.01 GENERAL CONDITIONS:

A. THE CONTRACTOR SHALL FURNISH ALL PLANT, LABOR, EQUIPMENT, AND SHALL PERFORM ALL OPERATIONS IN CONNECTION WITH THE PLUMBING SYSTEM(S) AS OUTLINED IN THE DRAWINGS AND IN STRICT ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT. ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH CAN REASONABLY BE TAKEN OR INFERRED AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE SYSTEM DESCRIBED OR SHOWN SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE WORK SHALL BE COMPLETE AND READY FOR SERVICE AS SHOWN AND/OR SPECIFIED, AND BE SATISFACTORY TO THE ARCHITECT.

B. REFER TO ARCHITECTURAL SPECIFICATIONS FOR CORRELATIONS AND GENERAL REQUIREMENTS.

1.02 WORK INCLUDED:

A. THE SYSTEMS TO BE INSTALLED CONSIST ESSENTIALLY OF THE FOLLOWING:
1. SANITARY SEWER PIPING AND WATER PIPING.
2. PLUMBING FIXTURES.
3. TRENCHING AND BACKFILL.
4. TESTING AND ADJUSTMENT OF THE PLUMBING SYSTEM.
5. OTHER ITEMS AS MAY BE SPECIFIED OR SHOWN ON THE DRAWINGS.

1.03 WORKMANSHIP: WHERE OTHER INSTRUCTIONS ARE NOT GIVEN, EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND THE BEST STANDARD PRACTICE FOR THIS TYPE OF WORK.

1.04 RULES, REGULATIONS, AND CODES:

A. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES, CODES, AND REGULATIONS OF THE FOLLOWING:
1. NATIONAL FIRE PROTECTION ASSOCIATION.
2. STATE FIRE MARSHAL.
3. PART - 5, T24 CALIFORNIA CODE OF REGULATIONS.
4. STATE HEALTH DEPARTMENT.
5. STATE INDUSTRIAL ACCIDENT COMMISSION'S SAFETY ORDERS.
6. RULES OF LOCAL UTILITY.
7. CALIFORNIA MECHANICAL CODE.
8. CALIFORNIA BUILDING CODE.
9. CALIFORNIA PLUMBING CODE.
10. CALIFORNIA ELECTRIC CODE.

B. RULING AND INTERPRETATIONS OF THE ENFORCING AGENCY WILL BE CONSIDERED PART OF THE REGULATIONS.

C. NOTHING IN THESE SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE, AND EXPENSE IN COMPLIANCE WITH THE ABOVE SHALL BE BORNE BY THE CONTRACTOR.

D. WHENEVER THE SPECIFICATIONS AND DRAWINGS REQUIRE HIGHER STANDARDS OR LARGER SIZES THAN THOSE REQUIRED BY THE ORDINANCES AND STATUTES, THE SPECIFICATIONS AND DRAWINGS SHALL TAKE PRIORITY OVER THE SPECIFIC ORDINANCES AND STATUTES.

1.05 SITE EXAMINATION AND CONDITIONS: THIS CONTRACTOR SHALL EXAMINE THE SITE, VERIFY DIMENSIONS AND LOCATIONS AGAINST THE DRAWINGS AND INFORM HIMSELF OF ALL CONDITIONS UNDER WHICH WORK IS TO BE DONE BEFORE SUBMITTING HIS PROPOSAL. NO ALLOWANCE WILL BE MADE IN HIS BEHALF FOR EXTRA EXPENSE ON ACCOUNT OF ERROR.

1.06 AS BUILT DRAWINGS:

A. SUPPLEMENTING THE REQUIREMENTS OF THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL SUPPLEMENTARY GENERAL CONDITIONS, AS-BUILT DRAWINGS SHALL SHOW INVERT ELEVATIONS OF SANITARY SEWERS, RAIN WATER LEADERS AND STORM SEWERS OF CRITICAL LOCATIONS, LOCATIONS OF SHUT-OFF VALVES AND STUB-OUTS FOR FUTURE, AND ALL CHANGES MADE DURING THE COURSE OF THE WORK. FURNISH REPRODUCIBLE DRAWINGS WHEN WORK IS COMPLETE.

B. THE GRADE OR QUALITY OF MATERIALS DESIRED IS INDICATED BY THE TRADE NAMES OR CATALOG NUMBERS STATED HEREIN.

C. DIMENSIONS, SIZES, AND CAPACITIES SHOWN ARE A MINIMUM AND SHALL NOT BE CHANGED WITHOUT PERMISSION OF THE ARCHITECT.

1.07 MATERIAL LIST AND SUBSTITUTIONS:

A. PRIOR TO COMMENCEMENT OF WORK, AND WITHIN 35 DAYS AFTER SIGNING OF THE CONTRACT BY THE OWNER AND GENERAL CONTRACTOR, THIS CONTRACTOR SHALL SUBMIT IN QUINTUPLE TO THE ARCHITECT FOR APPROVAL A COMPLETE LIST OF EQUIPMENT AND MATERIALS TO BE FURNISHED, INCLUDING ALL SUBSTITUTIONS. PARTIAL OR INCOMPLETE LISTS OF MATERIALS WILL NOT BE CONSIDERED. NO SUBSTITUTIONS WILL BE CONSIDERED THEREAFTER. ONLY ONE (1) REQUEST FOR SUBSTITUTION WILL BE CONSIDERED ON EACH ITEM OF MATERIAL OR EQUIPMENT.

B. IF THE CONTRACTOR DESIRES TO MAKE A SUBSTITUTION, HE SHALL SUBMIT COMPLETE INFORMATION OR CATALOG DATA TO SHOW THE QUALITY OF THE EQUIPMENT OR MATERIAL OFFERED TO THAT SPECIFIED. NO SUBSTITUTION WILL BE ALLOWED UNLESS REQUESTED AND APPROVED IN WRITING. MATERIALS OF EQUAL MERIT AND APPEARANCE IN THE OPINION OF THE ARCHITECT WILL BE APPROVED FOR USE. ARCHITECT RESERVES THE RIGHT TO REQUIRE ORIGINALLY SPECIFIED ITEM.

C. INSTALLATION OF APPROVED SUBSTITUTION IS THE CONTRACTOR'S RESPONSIBILITY. ANY CHANGES REQUIRED FOR INSTALLATION OF APPROVED SUBSTITUTED EQUIPMENT MUST BE MADE WITHOUT ADDITIONAL COST.

D. SUBMIT TO ARCHITECT FOR APPROVAL, WITHIN A REASONABLE TIME AFTER AWARD OF CONTACT AND IN AMPLE TIME TO AVOID DELAY OF CONSTRUCTION, SHOP DRAWINGS OR SUBMITTALS ON ALL ITEMS OF EQUIPMENT AND MATERIALS COVERED IN LIST MENTIONED ABOVE. SHOP DRAWINGS SHALL BE SUBMITTED IN FIVE (5) COPIES AND IN A COMPLETE PACKAGE. PARTIAL SUBMITTALS WILL NOT BE CONSIDERED.

1.08 FEES, PERMITS, AND UTILITY SERVICES: THIS CONTRACTOR SHALL ARRANGE TO OBTAIN AND TO PAY FOR ALL PERMITS AND SERVICE CHARGES REQUIRED IN THE INSTALLATION OF HIS WORK, ARRANGE FOR REQUIRED INSPECTIONS, AND SECURE APPROVALS FROM AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL ARRANGE FOR UTILITY CONNECTIONS AND PAY CHARGES INCURRED, INCLUDING EXCESS SERVICE CHARGES, IF ANY.

1.09 GUARANTEE: AFTER COMPLETION OF THE INSTALLATION OF EQUIPMENT HEREIN SPECIFIED, THE CONTRACTOR SHALL GUARANTEE SAME AGAINST DEFECTS OF WORKMANSHIP OR MATERIAL FOR A PERIOD OF ONE (1) YEAR, IF, WITHIN THE SPECIFIED PERIOD FROM THE DATE OF ACCEPTANCE ANY OF THE SYSTEM IS PROVEN TO BE DEFECTIVE IN WORKMANSHIP AND/OR MATERIAL, IT WILL BE ADJUSTED, REPAIRED, OR REPLACED FREE OF CHARGE BY THIS CONTRACTOR.

1.10 ACCESSIBILITY: CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUFFICIENCY OF SIZE AND THICKNESS OF PARTITIONS FOR ADEQUATE INSTALLATION OF HIS WORK. ANY EQUIPMENT REQUIRING ACCESS FOR OPERATION OR SERVICE SHALL BE MADE ACCESSIBLE BY THE USE OF ACCESS DOORS AS REQUIRED.

PART 2 PRODUCTS

2.01 MATERIAL: PIPE:

A. SANITARY SEWER PIPING INSIDE BUILDING DROPS SHALL BE SERVICE WEIGHT CAST IRON NO-HUB WITH NO-HUB FASTENERS. FIXTURE BRANCHES AND VENTS 2-1/2" AND SMALLER FROM 6" ABOVE GRADE MAY BE SCHEDULE 40 GALVANIZED STEEL. FITTINGS SHALL BE CAST SERVICE WEIGHT. CONTRACTOR MAY USE APACHE SCHEDULE 40 DWV ABS PIPE AND FITTINGS (ALL AS ALLOWED BY LOCAL CODE).

B. DOMESTIC WATER PIPING:

A. ABOVE GROUND: TYPE "L" COPPER TUBING. WROUGHT COPPER OR CAST BRONZE SWEAT FITTINGS.

1) PIPING 3 INCHES AND ABOVE: BRAZED.
2) PIPING 2-1/2 INCHES AND SMALLER: SOLDERED (95/5 SOLDER) JOINTS.
3) APPROVED FILLERS:

a) PRESSURE RANGE 81 TO 150 PSI AND TEMPERATURES 151°F TO 200°F: 95/5 TIN-ANTIMONY OR SILVER-BEARING SOLDERS, I.E., ALLSTATE 430, HARRIS STAY BRITE 5 OR 8.

b) USE APPROPRIATE FLUX PER MANUFACTURER'S RECOMMENDATIONS. USE OF CORROSIVE FLUXES IS PROHIBITED.

B. BELOW GROUND: TYPE "K" COPPER TUBING WITH BRAZED JOINTS. APROVED FILLERS: "PHOS 0," "SILFOS 5," "AIRCOSIL 15," "BRAZE 450/DE)." USE APPROPRIATE FLUX PER MANUFACTURER'S RECOMMENDATIONS.

C. PROVIDE "ECOFF" DIELECTRIC UNIONS AT ALL COPPER TO STEEL CONNECTIONS.

C. NATURAL GAS AND FUEL OIL PIPING SHALL BE SEAMLESS OR LAP WELDED BLACK STEEL, 125 PSIG WORKING PRESSURE. FITTINGS SHALL BE 125 PSIG TO SUIT PIPING MATERIAL. THREAD PASTE SHALL BE INSOLUBLE IN WATER, ALL VALVES SHALL BE RATED FOR NATURAL GAS FUEL. STEEL PIPE BURIED BELOW GRADE SHALL HAVE AN APPLIED HIGH DENSITY POLYETHYLENE WRAP, X-TRU-COAT, OR EQUAL, APPLIED AND INSTALLED ALL PER THE MANUFACTURER'S INSTRUCTIONS.

D. GAS PIPING SHALL BE GRADED TOWARD THE REGULATOR WHEREVER POSSIBLE. PIPING TRAPPED BY CHANGE OF GRADE SHALL BE SUPPLIED WITH A DRIP LINE AT THE LOW POINT BROUGHT OUT TO AN ACCESSIBLE LOCATION. PROVIDE DIRT POCKETS AT BOTTOMS OF VERTICAL PIPE RISERS, CONSISTING OF TEE FITTINGS PLUGGED WITH CAPPED NIPPLES. HIGH PRESSURE PIPE SHALL BE WELDED (SEE JOINTING).

E. CONDENSATE LINES SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE WITH GALVANIZED MALLEABLE IRON FITTINGS OR TYPE "M" COPPER. CONDENSATE LINES BELOW THE ROOF AND CONCEALED AREAS SHALL BE COVERED WITH INSULATION.

F. ROOF DRAINS, DOWNSPOUTS, AND RAINWATER LEADERS: ALL DOWNSPOUTS WHICH ARE INCLUDED IN THIS WORK SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE WITH BLACK CAST IRON DRAINAGE FITTINGS, EXCEPT PIPING BELOW GRADE OR SLAB TO 5'-0" OUTSIDE BUILDING SHALL BE MANVILLE NON-PRESSURE TRANSITE PIPE, CLASS 1500, OR APACHE SCHEDULE 40 DWV ABS PIPE AND FITTINGS (ALL AS SHOWN ON THE DRAWINGS).

A. ALL PIPE DOWNSPOUTS SHALL BE FURNISHED AND INSTALLED IN THE PLUMBING WORK. ALL PIPE DOWNSPOUTS SHALL BE COMPLETE WITH ALL NECESSARY OFFSETS AND FITTINGS AS REQUIRED AND APPROVED. CONNECT TO ROOF DRAINS AS REQUIRED. NO FITTINGS SHALL BE EXPOSED TO VIEW IN FINISHED AREAS.

2.02 PIPE INSULATION:

A. ALL CONDENSATE LINES ON THE INTERIOR OF THE BUILDING AND THE HOT WATER SUPPLY AND RETURN PIPING ABOVE SLAB OR GROUND EXCEPT EXPOSED RUNOUTS TO FIXTURES AND UNIONS AND VALVES SHALL BE COVERED WITH 1" THICK INSULATION FOR PIPES 1/2" & 3/4" PIPE. 1" THRU 1½" PIPES IN DIAMETER REQUIRES 1½" THICK INSULATION. 2" AND LARGER REQUIRES 2" THICK INSULATION. THE INSULATION SHALL BE MANVILLE FLAME SAFE, ONE PICE CONSTRUCTION PREFORMED FIBERGLASS PIPE INSULATION, OR APPROVED EQUAL, WITH A "K" FACTOR OF .22 MAXIMUM AT 75 DEGREES MEAN TEMPERATURE.

2.03 VALVES:

A. GATES: CRANE "438, 2" AND UNDER. CRANE 461 2-1/2" AND OVER.

B. SOLDER - JOINTS VALVES IN COPPER LINES. CRANE 1324 OR 438 WITH ADAPTERS.

2.04 VALVE BOXES: FURNISH AND INSTALL FOR EACH VALVE IN GROUND A BROOKS, CHRISTY, OR EQUAL TO BROOKS PRODUCTS COMPANY "B OPEN BOTTOM CONCRETE VALVE BOX WITH COVER MARKED FOR SERVICE.

2.05 FIXTURES:

A. FIXTURES SHALL BE AMERICAN STANDARD, CRANE, OR EQUAL. SUBMIT FIVE (5) PORTFOLIOS WITH FULL DESCRIPTION AND CUTS OF FIXTURES AND TRIM PROPOSED FOR USE TO ARCHITECT FOR WRITTEN APPROVAL.

B. FIXTURES SHALL BE AS SCHEDULED ON THE DRAWINGS

C. PLATE NUMBERS INDICATED ARE AMERICAN STANDARD, COMPLETE AS ILLUSTRATED AND DESCRIBED UNLESS OTHERWISE NOTED. PROVIDE STOPS AS HEREIN BEFORE SPECIFIED FOR ALL CONCEALED SUPPLIES

PART 3 EXECUTION

3.01 FRAMING, CUTTING AND PATCHING: SPECIAL FRAMING, RECESSES, CHASES, AND BACKING FOR WORK OF THIS SECTION, UNLESS OTHERWISE SPECIFIED, IS COVERED UNDER OTHER SECTIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PLACEMENT OF ALL PIPE SLEEVES, HANGERS, AND SUPPORTS AND LOCATION OF OPENINGS FOR WORK OF THIS SECTION.

3.02 EXCAVATION AND BACKFILL:

A. THIS CONTRACTOR SHALL DO ALL EXCAVATING REQUIRED FOR THE INSTALLATION OF ALL PIPING AND OTHER WORK THAT APPLIES TO THE WORK OF THIS CONTRACTOR INDICATED ON THE DRAWINGS.

B. EXCAVATIONS SHALL BE OF OPEN VERTICAL CONSTRUCTION OF SUFFICIENT WIDTH TO PROVIDE FREE WORKING SPACE AT BOTH SIDES OF THE TRENCH AND AROUND THE PIPE AS REQUIRED FOR JOINING, BACKFILL AND COMPACTING. WHERE INVERT ELEVATIONS ARE NOT SHOWN, TRENCHES SHALL BE DUG TO SUFFICIENT DEPTH TO GIVE A MINIMUM OF SIX INCHES (6") OF FILL ABOVE THE TOP OF PIPING, MEASURED FROM THE UNDERSIDE OF THE CONCRETE SLAB.

C. METHOD OF COMPACTION SHALL BE AS DIRECTED BY PROJECT INSPECTOR BACKFILL SHALL BE COMPACTED 95%, OR TO THE ORIGINAL DENSITY OF THE SOIL BEFORE EXCAVATION.

3.03 PIPING INSTALLATION:

A. GENERAL:
1. NO PIPING SHALL BE PERMANENTLY COVERED BY CONSTRUCTION BEFORE INSPECTION AND APPROVAL.
2. PROVISIONS SHALL BE MADE FOR THE EXPANSION AND CONTRACTION OF ALL PIPING, USING SWING JOINTS MADE UP OF FITTINGS, OR BENDS, OR OTHER METHODS OR DEVICES AS APPROVED.
3. CONNECTION OF PIPING OR EQUIPMENT OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC COUPLINGS OR WITH FLANGES AND INSULATING GASKETS EPCO, OR EQUAL.
4. INSTALL WATER PIPING GENERALLY LEVEL, FREE OF TRAPS AND UNNECESSARY BENDS TO CONFORM WITH BUILDING REQUIREMENTS, AND PROVIDE SPACE FOR OTHER WORK.
5. PIPING SHALL BE CONCEALED IN ALL LOCATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
6. INSTALL PIPING PROMPTLY, CAPPING AND PLUGGING OPEN ENDS.

B. JOINTING:
1. THREADED JOINTS SHALL HAVE TAPERED EVENLY CUT AND SHALL BE MADE WITH UNDERWRITERS' LABORATORIES APPROVED COMPOUND FOR GAS SERVICE CONSISTING OF GRAPHITE COMPOUND OR POLYTETRAFLOURETHYLENE TAPE APPLIED TO THE MALE THREADS ONLY. AFTER CUTTING AND BEFORE THREADING, PIPE SHALL BE REAMED AND SHALL HAVE BURRS REMOVED CAULKING OF THREADED JOINTS TO STOP OR PREVENT LEAKS WILL NOT BE PERMITTED.
2. WELDED JOINTS: CHANGES IN DIRECTION OF PIPING SHALL BE MADE WITH WELDED FITTINGS OF FORGED-BRANCH-CONNECTION FITTINGS, METERING OR NOTCHING PIPE TO FORM ELBOWS AND TEES, OR OTHER SIMILAR FITTINGS, WILL NOT BE PERMITTED.
3. SOLDER JOINTS IN COPPER TUBING FOR ALL INSTALLATIONS (HEATING, REFRIGERATING, AND PLUMBING) SHALL BE MADE WITH SIL-FOS SILVER BRAZING ALLOY. SURFACES TO BE JOINTED SHALL BE FREE OF OIL, GREASE, RUST AND OXIDES. AFTER CLEANING AND BEFORE ASSEMBLY OR HEATING, SUPPLY HANDY-FLUX TO EACH JOINT SURFACE AND SPREAD EVENLY. HEAT SHALL BE APPLIED CAREFULLY WITH AN OXY-ACETYLENE TORCH TO AVOID OVERHEATING FITTINGS. VALVES. EXCITNE 95 5% ANTIMONY SOLDER MAY BE PERMITTED ON PLUMBING LINES ABOVE SLAB OR GROUND ONLY WITH PRIOR APPROVAL FOR PIPING 2" AND SMALLER, ONLY.

4. STEEL PIPE AND CONNECTIONS:
A) SHALL HAVE ENDS REAMED TO FULL INSIDE DIAMETER AND BEVELED BEFORE BEING MADE UP INTO FITTINGS.
B) ALL CHANGES IN DIRECTION TO BE MADE WITH PROPER FITTINGS.
C) ALL SCREWED CONNECTIONS TO BE METAL TO METAL TIGHT.
D) JOINTS BETWEEN PIPE AND FITTINGS TO BE MADE WITH THREADS FULLY COATED WITH KEY'S THREAD PASTER. PASTE IS TO BE APPLIED TO MALE THREAD.
E) UNIONS TO BE PLACED ADJACENT TO ALL SCREWED VALVES, CHECK VALVES, OR EQUIPMENT WHICH HAS NO UNION CONNECTIONS. UNIONS ON WATER PIPES ON FIXTURES SIDE OF TRAPS MAY BE SLIP FLANGE JOINTS WITH SOFT RUBBER OR LEAD GASKETS.

5. CAST IRON PIPE JOINTS AND CONNECTIONS:
A) JOINTS SHALL BE MADE WITH STAINLESS STEEL COUPLING NO-HUB TYPE.
B) ALL CHANGES IN DIRECTION TO BE MADE WITH PROPER FITTINGS.
C) ALL SCREWED CONNECTIONS TO BE METAL TO METAL TIGHT.
D) CLEANOUTS TO BE LOCATED NOT LESS THAN 18" FROM BUILDING CONSTRUCTION FOR EASE OF RODDING.
E) USE GRAPHITE ON ALL CLEANOUT THREADS.

C. PIPING CUTTING: PIPE CUTTING SHALL BE DONE WITHOUT DAMAGE TO THE PIPE. UNLESS OTHERWISE AUTHORIZED BY THE ARCHITECT, CUTTING SHALL BE DONE BY MEANS OF AN APPROVED TYPE OF MECHANICAL CUTTER. WHEEL CUTTERS SHALL BE USED WHERE PRACTICABLE ON PIPE 6" (SIX INCHES) AND LARGER, AN APPROVED GAS-CUTTING-BEVELLING MACHINE MAY BE USED.

3.04 CARE AND CLEANING:

A. ALL BROKEN, DAMAGED, OR OTHERWISE DEFECTIVE PARTS OF THIS WORK SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR, AT HIS EXPENSE, AND THE ENTIRE WORK LEFT IN A CONDITION SATISFACTORY TO THE ARCHITECT. AT COMPLETION THIS CONTRACTOR SHALL CAREFULLY CLEAN AND ADJUST ALL EQUIPMENT, FIXTURES, AND TRIM WHICH ARE INSTALLED AS PART OF HIS WORK AND THE SYSTEMS AND EQUIPMENT LEFT IN SATISFACTORY OPERATING CONDITION.

3.05 WATER SYSTEM STERILIZATION: AFTER FLUSHING, ENTIRE WATER SYSTEM FROM NEW POINTS OF CONNECTION SHALL BE STERILIZED BEFORE BEING TURNED OVER TO THE OWNER FOR USE. SLOWLY FILL SYSTEM WITH WATER AND ADD CHLORINE CHEMICAL AGENT TO PRODUCE A MINIMUM OF 50 PPM OF CHLORINE IN ENTERING WATER. TREATED WATER SHALL BE RETAINED IN PIPE OVERNIGHT. CHLORINE RESIDUAL AT PIPE EXTREMITIES SHALL BE AT LEAST 5 PPM AT END OF THIS TIME. SHOULD CHLORINE RESIDUAL BE LESS THAN THIS AMOUNT, PIPE SHALL BE RE-CHLORINATED.

3.06 TEST OF PIPING:

A. ALL PIPING SHALL BE TESTED AT COMPLETION OF ROUGHING IN, IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND SHOULD SHOW NO LOSS IN PRESSURE OR VISIBLE LEAKS AFTER A MINIMUM DURATION OF FOUR HOURS AT THE TEST PRESSURES INDICATED.

TEST SCHEDULE

SYSTEM TESTED	TEST PRESSURE PSIG	TEST WITH
ALL SOIL, WASTE, DRAIN & VENT PIPING WITHIN BUILDING, INSPECTOR.	FILL WITH WATER TO TOP OF HIGHEST VENT, ALLOW TO STAND TWO (2) HOURS OF LONGER AS DIRECTED BY	WATER
ALL HOT AND COLD WATER	100 LBS. FOR 15 MINUTES WITHOUT LEAKS.	WATER
GAS PIPING, WITH NO PERCEPTIBLE DROP IN PRESSURE.	75 LB. FOR 30 MINUTES	AIR

B. TESTING EQUIPMENT, MATERIALS AND LABOR SHALL BE FURNISHED BY THIS CONTRACTOR.

3.07 CLOSING IN OF UNINSPECTED WORK:

A. THIS CONTRACTOR SHALL NOT ALLOW OR CAUSE ANY OF THE WORK INSTALLED BY HIM TO BE COVERED UP OR ENCLOSED BEFORE IT HAS BEEN INSPECTED, TESTED AND APPROVED.

B. SHOULD ANY OF THE WORK BE ENCLOSED OR COVERED UP BEFORE IT HAS BEEN APPROVED, HE SHALL, AT HIS EXPENSE, UNCOVER THE WORK. AFTER IT HAS BEEN TESTED, INSPECTED, AND APPROVED, HE SHALL MAKE ALL REPAIRS NECESSARY TO RESTORE THE WORK OF OTHER CONTRACTORS TO THE CONDITION IN WHICH IT WAS FOUND AT THE TIME OF CUTTING.

END OF PLUMBING SPECIFICATIONS

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1	10.29.25	COORDINATION
2	12.12.25	PLAN CHECK #1
4	08.31.26	BID SET

PLUMBING SPECIFICATIONS

P9.0

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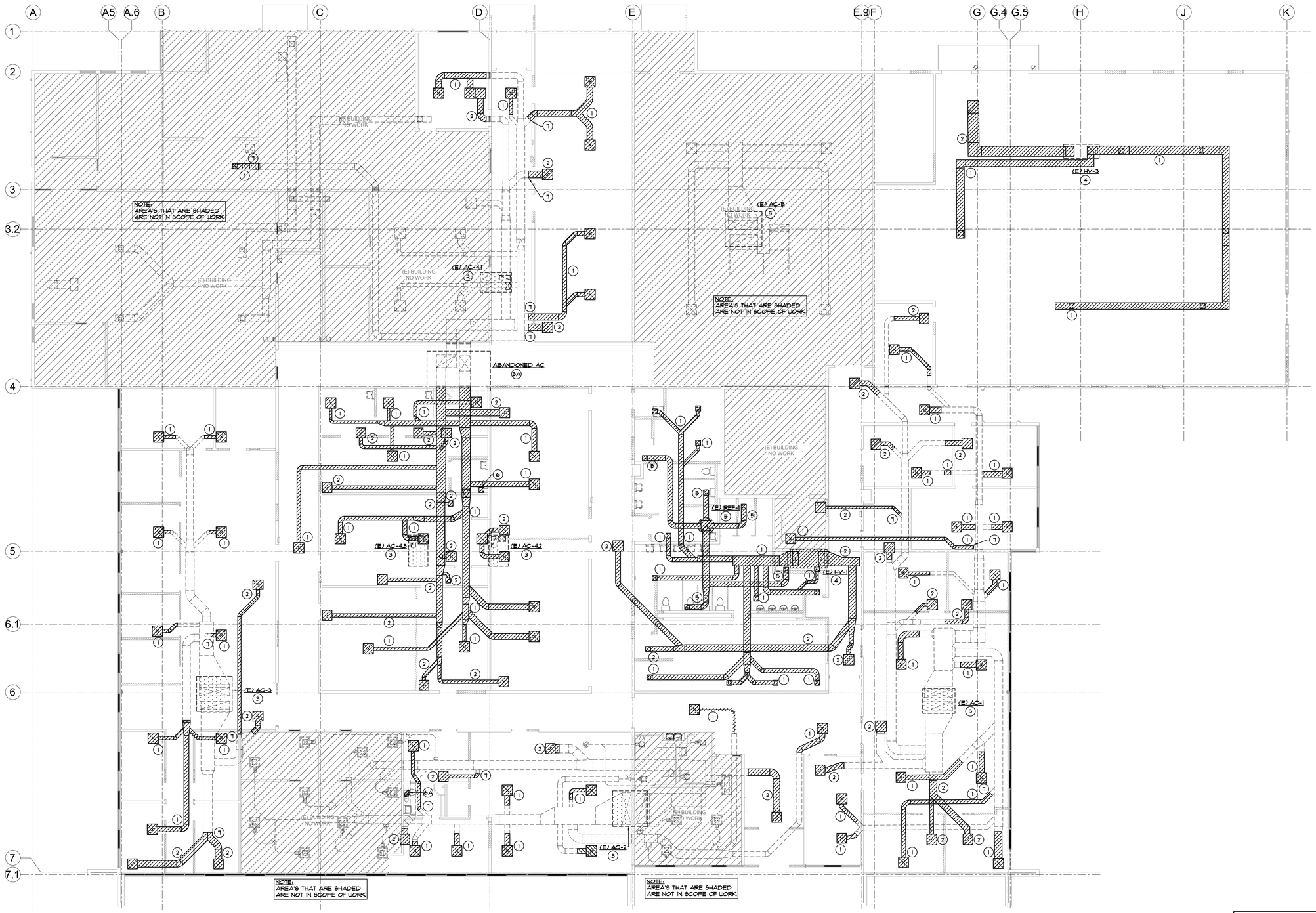
DEMO KEY NOTE SCHEDULE

1. REMOVE (E) SUPPLY DUCT / DIFFUSER SHOWN CROSSED SHADED. REFER TO MECHANICAL FLOOR PLAN FOR FURTHER INFORMATION.
2. REMOVE (E) RETURN DUCT / DIFFUSER, TRANSFER DUCT SHOWN CROSSED SHADED. REFER TO MECHANICAL FLOOR PLAN FOR FURTHER INFORMATION.
3. (E) UNIT ON ROOF TO BE REMAIN. REFER TO MECHANICAL FLOOR PLAN FOR FURTHER INFORMATION.
3A. (E) UNIT ON ROOF TO BE ABANDONED IN PLACE.
4. (E) UNIT ON ROOF TO BE REMOVED. REFER TO DEMOLITION ROOF PLAN FOR FURTHER INFORMATION.
5. (E) ROOFTOP EXHAUST FAN ON ROOF TO BE REMOVED, ALONG WITH ALL ASSOCIATED EXHAUST DUCT / DIFFUSERS SHOWN CROSSED SHADED. REFER TO DEMOLITION ROOF PLAN FOR FURTHER INFORMATION.
6. (E) CEILING MOUNTED EXHAUST FAN, DUCT, ROOF CAP AND ALL ASSOCIATED ITEMS TO BE REMOVED.
6A. (E) CEILING MOUNTED EXHAUST FAN, DUCT TO RISER TO BE REMOVED REFER TO MECHANICAL FLOOR PLAN FOR P.O.C. CONNECTION INFORMATION.
7. CAP (E) DUCT AS SHOWN. REFER TO MECHANICAL FLOOR PLAN FOR FURTHER INFORMATION.



DEMOLITION MECHANICAL FLOOR PLAN

SCALE: 1/8"=1'-0"

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Port of Stockton
Building 315 Alteration - Phase (2)

315 Fyffe Ave,
Stockton, CA 95203

WMB Project No. 19-095

PUBLISH HISTORY:

⚠	DATE	PURPOSE
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3	02.12.26	PLAN CHECK #2
4	08.31.26	BID SET

DEMOLITION MECHANICAL FLOOR PLAN

DM2.1

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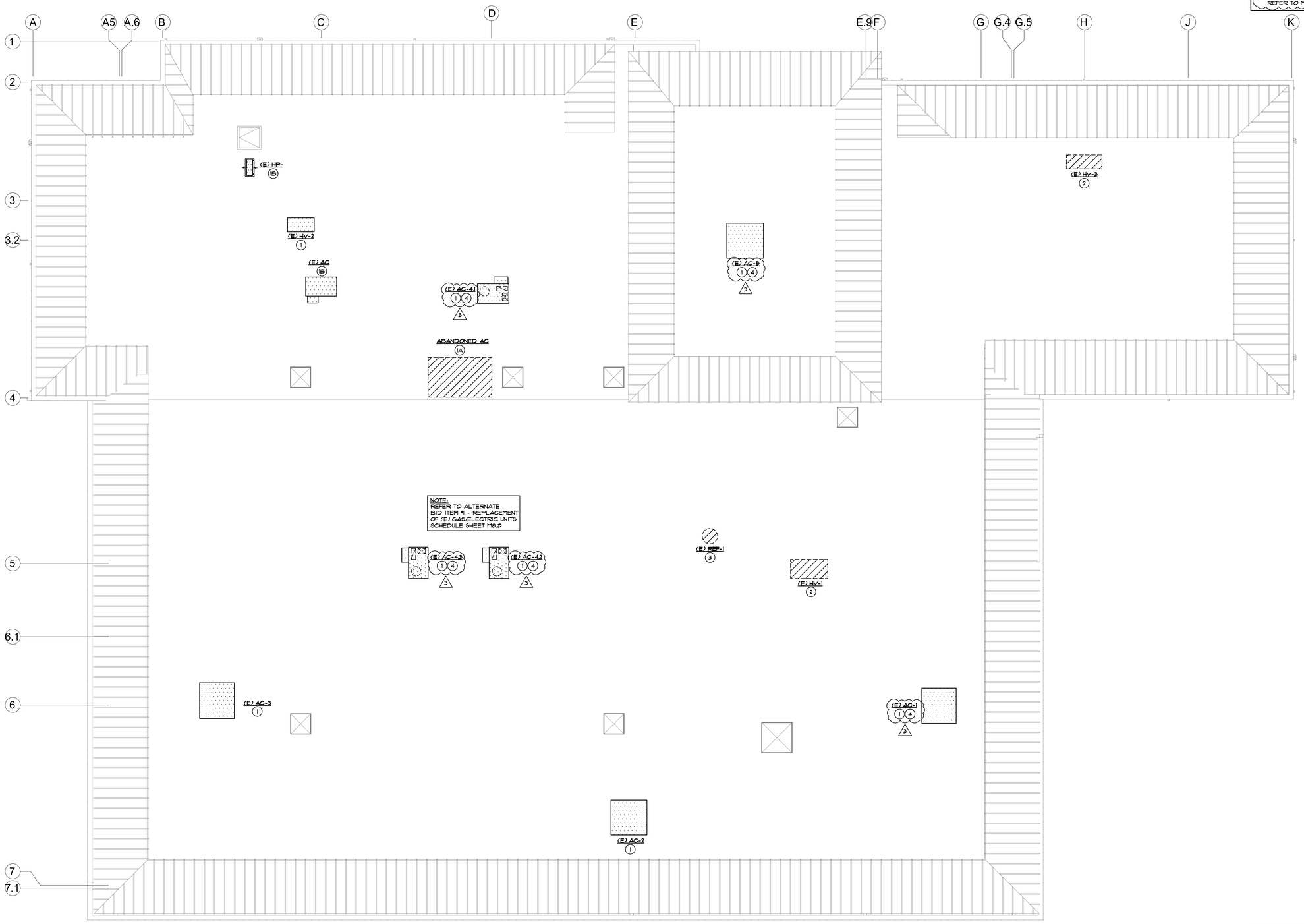
KEY NOTE SCHEDULE

1. (E) ROOFTOP UNIT TO BE REMAIN. REFER TO MECHANICAL FLOOR PLAN FOR FURTHER INFORMATION.
1A. (E) ROOFTOP UNIT TO BE ABANDONED IN PLACE.
1B. (N) HVAC EQUIPMENT INSTALLED UNDER PHASE 1 CONSTRUCTION.
2. (E) ROOFTOP UNIT, CURB, S.A. / R.A. PLENUMS, ELECTRICAL AND ALL ASSOCIATED ITEMS TO BE REMOVED.
3. (E) ROOFTOP EXHAUST FAN, CURB, EXHAUST PLENUMS, ELECTRICAL AND ALL ASSOCIATED ITEMS TO BE REMOVED.
4. ALTERNATE BID ITEM #1 REPLACEMENT OF (E) AC UNITS:
   (E) AC-1
   (E) AC-3
   (E) AC-4.1, AC-4.2 & AC-4.3
   (E) AC-5
   SCOPE AS FOLLOWS:
   1. DISCONNECT (E) SERVICES TO (E) AC UNIT.
   2. CURB TO REMAIN.
   3. REMOVE (E) AC UNIT.
   REFER TO MECHANICAL ROOF PLAN FOR FURTHER INFORMATION.



DEMOLITION MECHANICAL ROOF PLAN

SCALE: 1/8"=1'-0"

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DEMOLITION MECHANICAL ROOF PLAN

DM3.1

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MECHANICAL OVERALL FLOOR PLAN

SCALE: 1/8"=1'-0"

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MECHANICAL OVERALL FLOOR PLAN

M2.0

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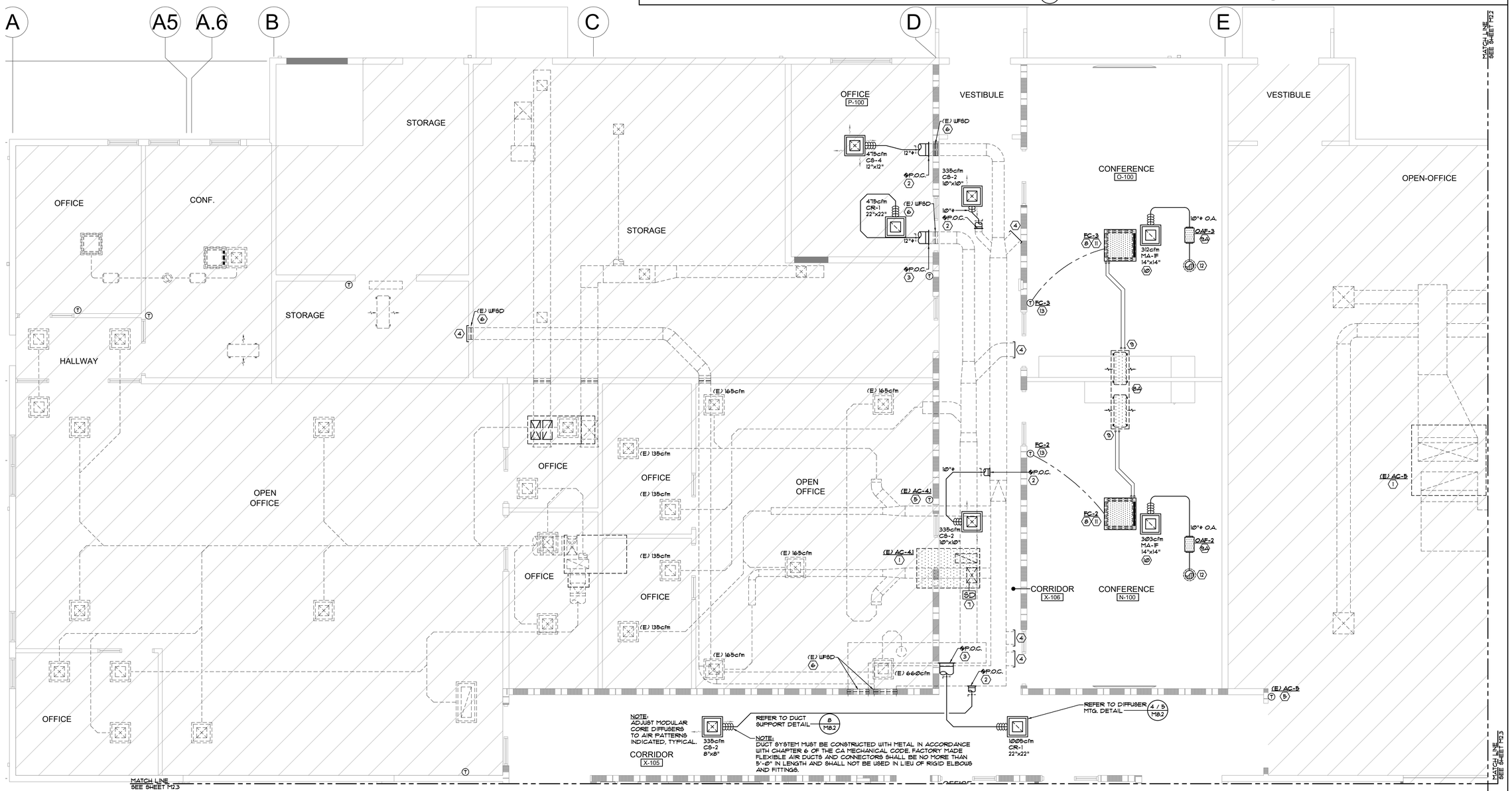
KEY NOTE SCHEDULE

1. (E) AC UNIT ON ROOF ABOVE. PROVIDE THE FOLLOWING SERVICE TO (E) AC UNIT.
   A) WASH CONDENSER COIL.
   B) CHANGE FILTER.
   C) RECHARGE REFRIGERANT SYSTEM AS REQUIRED.
   D) CHANGE BELT (IF BELT DRIVE MACHINE).
   E) VACUUM OUT FAN HOUSING.
2. ◆ P.O.C. CONNECT (N) S.A. DUCT TO (E) S.A. DUCT WITH SIZE AS INDICATED, MECHANICAL CONTRACTOR TO FIELD VERIFY SIZE / LOCATION OF (E) AND MAKE NECESSARY ADJUSTMENTS TO CARRY OUT INTENT OF DESIGN. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION.
3. ◆ P.O.C. CONNECT (N) R.A. DUCT TO (E) R.A. DUCT WITH SIZE AS INDICATED, MECHANICAL CONTRACTOR TO FIELD VERIFY SIZE / LOCATION OF (E) AND MAKE NECESSARY ADJUSTMENTS TO CARRY OUT INTENT OF DESIGN. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION.
4. (E) CAPPED DUCT, REFER TO DEMOLITION FLOOR PLAN FOR FURTHER INFORMATION.
5. PROVIDE GAS / ELECTRIC DIGITAL TIMECLOCK THERMOSTAT WITH TOP AT 48" A.F.F.
6. (E) WF8D-PROVIDE REQUIRED SERVICE TO MAKE OPERATIONAL. PROVIDE SMOKE DETECTOR THAT IS CSFM LISTED AND IS COMPATIBLE WITH FIRE ALARM PANEL.
7. PROVIDE WITH SMOKE DETECTOR WITH CSFM LISTING SMOKE DETECTOR SHALL BE COMPATIBLE WITH NEW FIRE ALARM PANEL. PROVIDE SMOKE DETECTOR @ SUPPLY PLENUM TO SHUT UNIT DOWN UPON DETECTION OF SMOKE. REFER TO AC UNIT CONTROL DIAGRAM: 1 / M8.3
8. CEILING CASSETTE FAN COIL MOUNTED AT T-BAR CEILING. PROVIDE SMOKE DETECTOR WITH CSFM LISTING. SMOKE DETECTOR SHALL BE COMPATIBLE WITH NEW FIRE ALARM PANEL. REFER TO FAN COIL MOUNTING DETAIL: 9 / M8.1
9. HEAT PUMP UNITS ON ROOF ABOVE, REFER TO HEAT PUMP UNIT MOUNTING DETAIL: 9 / M8.1
9. PROVIDE REFRIGERANT PIPING DOWN FROM ROOF THRU ROOF SAFE TO DESIGNATED FAN COIL SHOWN. REFER TO ROOF SAFE DETAIL 7/M8.1 AND REFRIGERANT PIPING DIAGRAM: 9 / M8.1
   REFER TO PIPE SIZE SCHEDULE ON SHEET M3.1 FOR REQUIRED PIPE SIZE.
   PROVIDE FIRE STOP AT PENETRATION THRU RATED ROOF ASSEMBLY.
9A. OAF- INLINE VENTILATION FAN, TO BE MOUNTED IN NON-RATED CEILING SPACE WITH DUCT SIZE AS INDICATED TO CEILING FILTER REGISTER WITH MERV 13 FILTER. ACCESS FAN THRU T-BAR PANEL FOR SERVICING. BALANCE VENTILATION CFM EQUAL TO CFM INDICATED. INTERLOCK OUTSIDE AIR FAN OPERATION WITH FAN COIL SUPPLY FAN. REFER TO INTERLOCK CONTROL DETAIL 2 / M8.2 3/M8.3 AND MOUNTING DETAIL.
10. PROVIDE THE FOLLOWING AT CEILING DIFFUSER:
    A) FILTER GRILLE (MERV 13 FILTER)
    B) LINED SHEET METAL BOX
    REFER TO DETAIL: 4 / 5 M8.2
11. PROVIDE BLANK-OFF PLATE ON THE SIDE FACING MA-1F TO PROVIDE 3-WAY BLOW PATTERN.
12. 10"ø OUTSIDE AIR DUCT DOWN FROM ROOF CAP. PENETRATION THRU ROOF TO BE FIRE PROTECTED WITH MINERAL WOOL BATT INSULATION AND SEALANT. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.
13. FUJITSU DIGITAL THERMOSTAT MOUNTED WITH TOP AT 48" ABOVE FINISHED FLOOR.

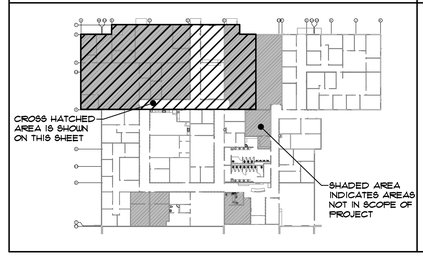


MECHANICAL PARTIAL FLOOR PLAN

SCALE: 1/4"=1'-0"

1 / M2.1

KEY PLAN



GENERAL NOTES

1. AC UNIT PLENUM SIZES ARE BASED ON THE INFORMATION AVAILABLE. THE MECHANICAL CONTRACTOR SHALL REVIEW ACTUAL SITE CONDITIONS TO VERIFY SPECIFIED PLENUMS WILL FIT IN-BETWEEN FRAMING. IF ACTUAL CONDITIONS ARE DIFFERENT, THE MECHANICAL CONTRACTOR SHALL MAKE THE NECESSARY CHANGES (WITH ENGINEERS APPROVAL) AT NO ADDITIONAL COST TO THE PROJECT.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL, PLUMBING AND FIRE SPRINKLER CONTRACTOR'S TO ELIMINATE ANY SPACE CONFLICTS. ADJUST DUCTWORK AS NEEDED TO FIT IN SPACE AND WITH OTHER TRADES AT NO ADDITIONAL COST TO THE PROJECT.
3. ALL SUPPLY AND RETURN PLENUMS ARE TO BE SUPPLIED WITH LINING, REFER TO SPECIFICATIONS.
4. ALL SUPPLY AND RETURN PLENUMS SHALL BE SEALED AIR TIGHT AT PENETRATIONS TO ROOF MEMBRANE.
5. MECHANICAL CONTRACTOR TO COORDINATE LOCATION OF DUCTS AND MECHANICAL UNITS WITH STRUCTURAL DUCTS AND STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF UNITS TO ELIMINATE AND CONFLICTS.
6. DUCT MATERIALS AND GAUGES SHALL BE PER ANSI SMACNA 006-2006 HVAC DUCT CONSTRUCTION STANDARDS (CMC 602.1).
7. INSTALLATION OF MECHANICAL SYSTEMS SHALL BE IN COMPLIANCE WITH 2022 NON-RESIDENTIAL CALIFORNIA GREEN CODE NOTES INDICATED ON SHEET M0.2.
8. TESTING OF WIRE, INSULATION, PIPES, DUCTS, ETC, SHALL BE TESTED PER CBC 803 TO GET FLAME AND SMOKE RATING.
9. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL THE FINAL STARTUP OF THE HEATING COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER OR DEBRIS WHICH MAY ENTER THE SYSTEM (CAL GREEN 5.504.3.).

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MECHANICAL PARTIAL FLOOR PLANS

M2.1

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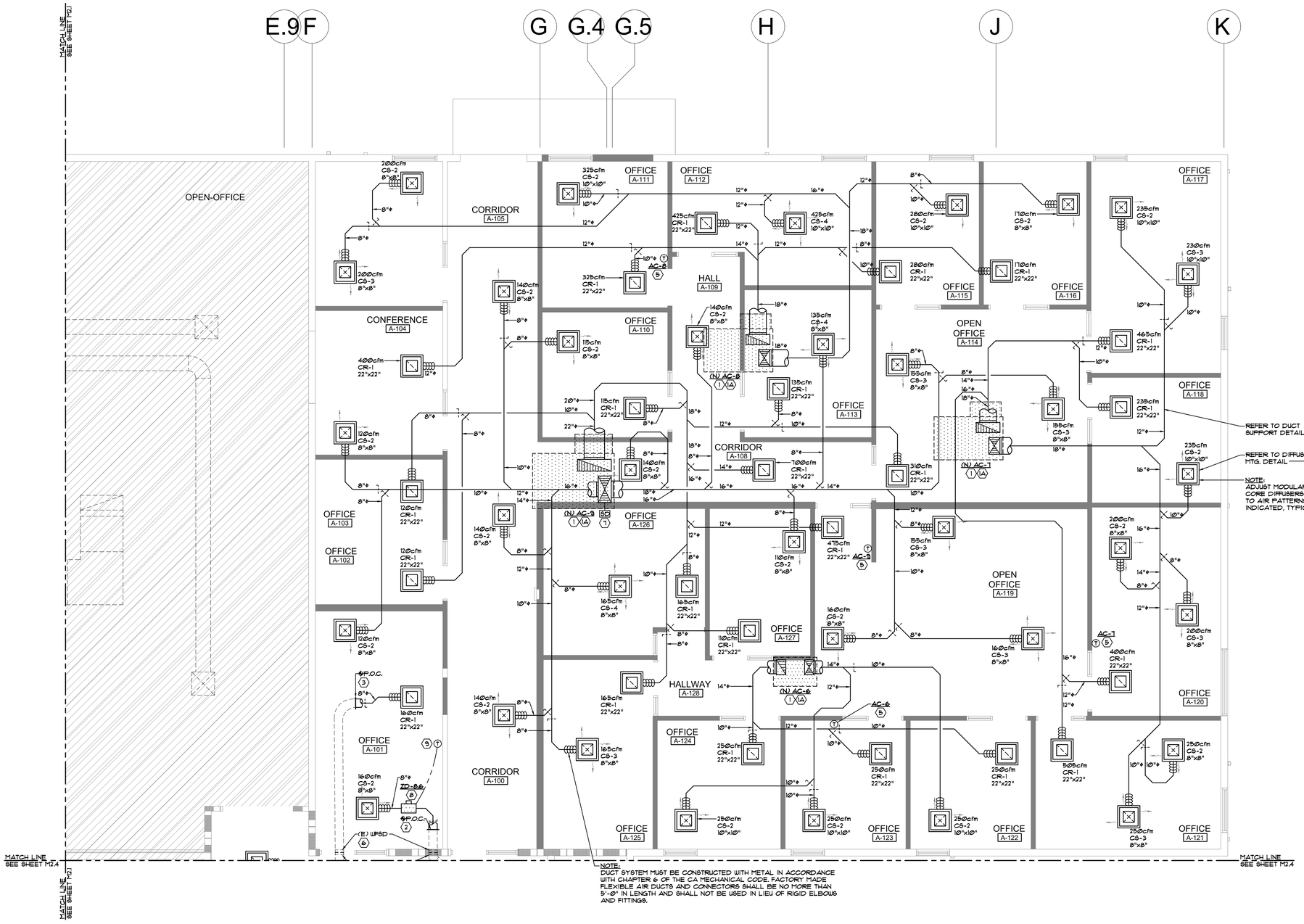


MECHANICAL PARTIAL FLOOR PLAN

SCALE: 1/4"=1'-0"

1 / M2.2

KEY NOTE SCHEDULE

1. AC UNIT ON ROOF ABOVE W/ DUCTS SIZES AS FOLLOWS DOWN THRU THE ROOF.

AC UNIT NUMBER	CONNECTION SIZE @ UNIT	DUCT SIZES TO TRANSITION TO GOING THRU ROOF JOISTS
AC-6	S.A. = 16"x16" R.A. = 16"x16"	S.A. = 16"x16" R.A. = 16"x16"
AC-7	S.A. = 17¾"x12½" R.A. = 25⅝"x16⅜	S.A. = 18"x12½" R.A. = 25⅝"x16⅜
AC-8	S.A. = 17¾"x12½" R.A. = 25⅝"x16⅜	S.A. = 18"x12½" R.A. = 25⅝"x16⅜
AC-9	S.A. = 28¾"x14" R.A. = 36⅜"x12⅝"	S.A. = 28⅜"x14" R.A. = 36⅜"x12⅝"

REFER TO AC UNIT MOUNTING DETAILS: 3 M8.1, 4 M8.1

1A. OPENINGS WITHIN ROOF TO BE FIRE PROTECTED WITH MINERAL WOOL BATT INSULATION AND SEALANT. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.

2. Ø P.O.C. CONNECT (N) S.A. DUCT TO (E) S.A. DUCT WITH SIZE AS INDICATED. MECHANICAL CONTRACTOR TO FIELD VERIFY SIZE / LOCATION OF (E) AND MAKE NECESSARY ADJUSTMENTS TO CARRY OUT INTENT OF DESIGN. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION.

3. Ø P.O.C. CONNECT (N) R.A. DUCT TO (E) R.A. DUCT WITH SIZE AS INDICATED. MECHANICAL CONTRACTOR TO FIELD VERIFY SIZE / LOCATION OF (E) AND MAKE NECESSARY ADJUSTMENTS TO CARRY OUT INTENT OF DESIGN. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION.

4. (E) CAPPED DUCT, REFER TO DEMOLITION FLOOR PLAN FOR FURTHER INFORMATION.

5. PROVIDE GAS / ELECTRIC DIGITAL TIMECLOCK THERMOSTAT WITH TOP AT 48" AFF. REFER TO AC UNIT CONTROL DIAGRAM. 1 M8.3

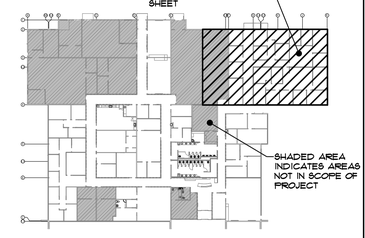
6. (E) WF&D-PROVIDE REQUIRED SERVICE TO MAKE OPERATIONAL. PROVIDE SMOKE DETECTOR THAT IS CSFM LISTED AND IS COMPATIBLE WITH FIRE ALARM PANEL.

7. PROVIDE WITH SMOKE DETECTOR THAT IS CFSM LISTED AND IS COMPATIBLE WITH FIRE ALARM PANEL. PROVIDE SMOKE DETECTOR @ SUPPLY PLENUM TO SHUT UNIT DOWN UPON DETECTION OF SMOKE. REFER TO AC UNIT CONTROL DIAGRAM. 1 M8.3

8. PROVIDE ZONE DAMPER, REFER TO CONTROL DIAGRAM. 2 M8.3

9. ZONE DAMPER THERMOSTAT MOUNTED WITH TOP AT 48" AFF. REFER TO CONTROL DIAGRAM. 2 M8.3

KEY PLAN



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3. ALL SUPPLY AND RETURN PLENUMS ARE TO BE SUPPLIED WITH LINING, REFER TO SPECIFICATIONS.
4. ALL SUPPLY AND RETURN PLENUMS SHALL BE SEALED AIR TIGHT AT PENETRATIONS TO ROOF MEMBRANE.
5. MECHANICAL CONTRACTOR TO COORDINATE LOCATION OF DUCTS AND MECHANICAL UNITS WITH STRUCTURAL DWG'S. AND STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF UNITS TO ELIMINATE AND CONFLICTS.
6. DUCT MATERIALS AND GAUGES SHALL BE PER ANSI SMACNA 006-2006 HVAC DUCT CONSTRUCTION STANDARDS (CMC 602.1).
7. INSTALLATION OF MECHANICAL SYSTEMS SHALL BE IN COMPLIANCE WITH 2022 NON-RESIDENTIAL CALIFORNIA GREEN CODE NOTES INDICATED ON SHEET M8.2.
8. TESTING OF WIRE, INSULATION, PIPES, DUCTS, ETC, SHALL BE TESTED PER CBC 803 TO GET FLAME AND SMOKE RATING.
9. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL THE FINAL STARTUP OF THE HEATING COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER OR DEBRIS WHICH MAY ENTER THE SYSTEM (CAL GREEN 5.504.3).

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MECHANICAL PARTIAL FLOOR PLANS

M2.2

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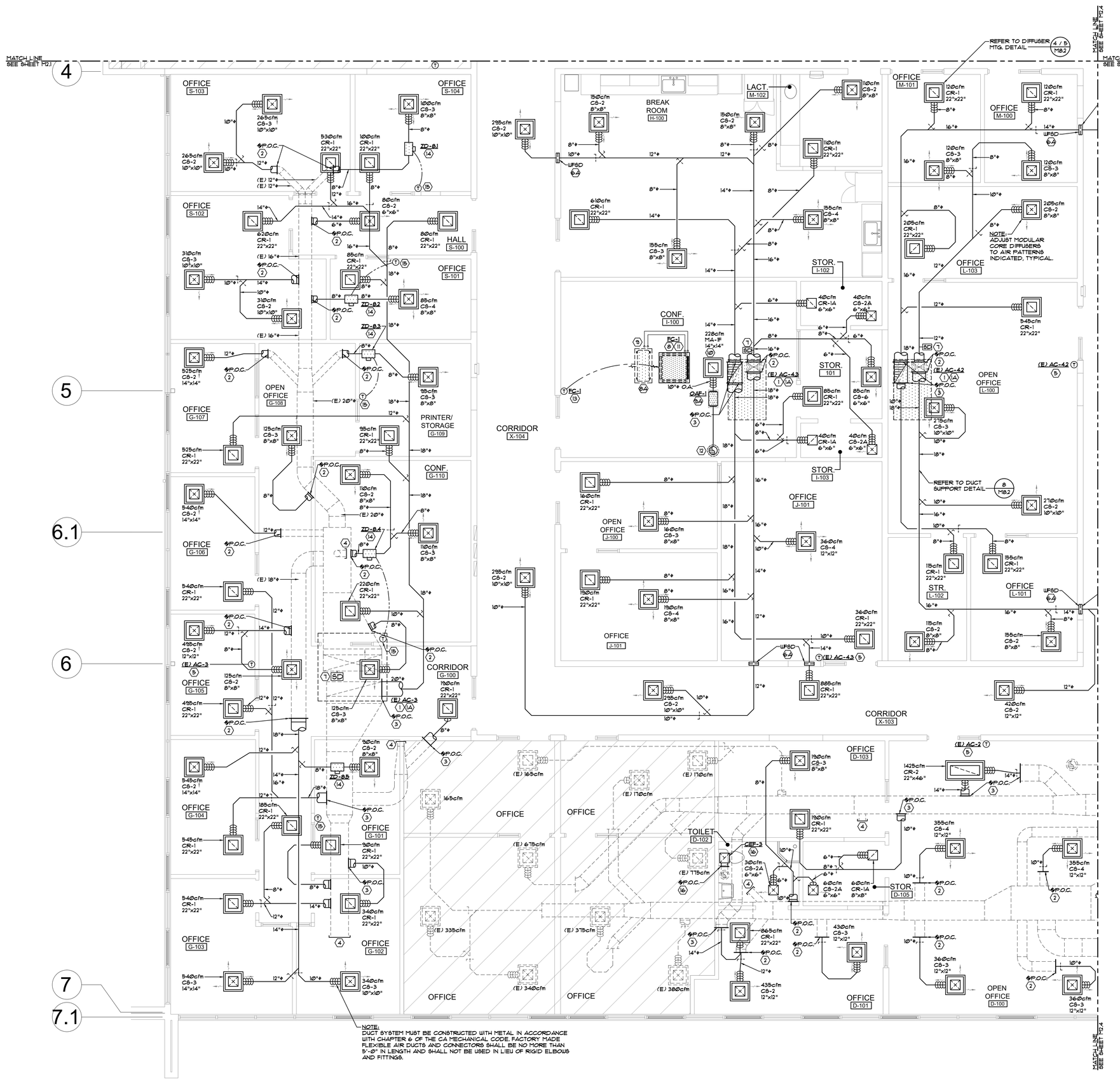


MECHANICAL PARTIAL FLOOR PLAN

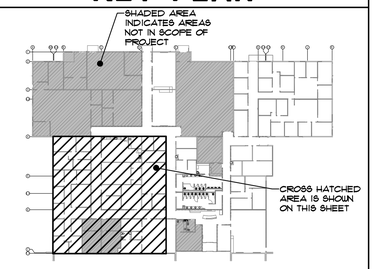
SCALE: 1/4"=1'-0"

1 / M2.3

KEY NOTE SCHEDULE

1. (E) AC UNIT ON ROOF ABOVE. PROVIDE THE FOLLOWING SERVICE TO (E) AC UNIT.
   A) WASH CONDENSER COIL.
   B) CHANGE FILTER.
   C) RECHARGE REFRIGERANT SYSTEM AS REQUIRED.
   D) CHANGE BELT (IF BELT DRIVE MACHINE).
   E) VACUUM OUT FAN HOUSING.
1A. OPENINGS WITHIN ROOF TO BE FIRE PROTECTED WITH MINERAL WOOL BATT INSULATION AND SEALANT. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.
2. ⌀ P.O.C. CONNECT (N) S.A. DUCT TO (E) S.A. DUCT WITH SIZE AS INDICATED. MECHANICAL CONTRACTOR TO FIELD VERIFY SIZE / LOCATION OF (E) AND MAKE NECESSARY ADJUSTMENTS TO CARRY OUT INTENT OF DESIGN. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION.
3. ⌀ P.O.C. CONNECT (N) R.A. DUCT TO (E) R.A. DUCT WITH SIZE AS INDICATED. MECHANICAL CONTRACTOR TO FIELD VERIFY SIZE / LOCATION OF (E) AND MAKE NECESSARY ADJUSTMENTS TO CARRY OUT INTENT OF DESIGN. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION.
4. (E) CAPPED DUCT, REFER TO DEMOLITION FLOOR PLAN FOR FURTHER INFORMATION.
5. PROVIDE GAS / ELECTRIC DIGITAL TIMECLOCK THERMOSTAT WITH TOP AT 48" A.F.F. REFER TO AC UNIT CONTROL DIAGRAM. — 1 / M8.3
6. (E) UFSD-PROVIDE REQUIRED SERVICE TO MAKE OPERATIONAL. PROVIDE SMOKE DETECTOR THAT IS CSFM LISTED AND IS COMPATIBLE WITH FIRE ALARM PANEL.
6A. PROVIDE WALL FIRE / SMOKE DAMPER AT PENETRATION THRU RATED WALL. REFER TO WALL FIRE / SMOKE DAMPER DETAIL. WALL FIRE / SMOKE DAMPER TO BE PROVIDED WITH SMOKE DETECTOR THAT IS CFSM LISTED AND IS COMPATIBLE WITH FIRE ALARM PANEL. — 4 / M8.3
7. PROVIDE WITH SMOKE DETECTOR THAT IS CFSM LISTED AND IS COMPATIBLE WITH FIRE ALARM PANEL. PROVIDE SMOKE DETECTOR @ SUPPLY PLENUM TO SHUT UNIT DOWN UPON DETECTION OF SMOKE. REFER TO AC UNIT CONTROL DIAGRAM. — 1 / M8.3
8. CEILING CASSETTE FAN COIL MOUNTED AT T-BAR CEILING. REFER TO FAN COIL MOUNTING DETAIL. — 9 / M8.1
9A. HEAT PUMP UNITS ON ROOF ABOVE, REFER TO HEAT PUMP UNIT MOUNTING DETAIL. — 5 / M8.1
9. PROVIDE REFRIGERANT PIPING DOWN FROM ROOF THRU ROOF SAFE TO DESIGNATED FAN COIL SHOWN. REFER TO ROOF SAFE DETAIL 7/M8.1 AND REFRIGERANT PIPING DIAGRAM. REFER TO PIPE SIZE SCHEDULE ON SHEET M3.1 FOR REQUIRED PIPE SIZE. PROVIDE FIRE STOP AT PENETRATION THRU RATED ROOF ASSEMBLY. — 8 / M8.1
9A. OAF-1 INLINE VENTILATION FAN, TO BE MOUNTED IN NON-RATED CEILING SPACE WITH DUCT SIZE AS INDICATED TO CEILING FILTER REGISTER WITH MERV 13 FILTER. ACCESS FAN THRU T-BAR PANEL FOR SERVICING. BALANCE VENTILATION CFM EQUAL TO CFM INDICATED. INTERLOCK OUTSIDE AIR FAN OPERATION WITH FAN COIL SUPPLY FAN. REFER TO INTERLOCK CONTROL DETAIL 3/M8.3 AND MOUNTING DETAIL. — 2 / M8.2
10. PROVIDE THE FOLLOWING AT CEILING DIFFUSER:
    A) FILTER GRILLE (MERV 13 FILTER)
    B) LINED SHEET METAL BOX
    REFER TO DETAIL: — 4 / M8.2
11. PROVIDE BLANK-OFF PLATE ON THE SIDE FACING MA-1F TO PROVIDE 3-WAY BLOW PATTERN.
12. 10"ø OUTSIDE AIR DUCT DOWN FROM ROOF CAP. PENETRATION THRU ROOF TO BE PROTECTED. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.
13. FUJITSU DIGITAL THERMOSTAT MOUNTED WITH TOP AT 48" ABOVE FINISHED FLOOR.
14. PROVIDE ZONE DAMPER, REFER TO CONTROL DIAGRAM. — 2 / M8.3
15. ZONE DAMPER THERMOSTAT MOUNTED WITH TOP AT 48" A.F.F. REFER TO CONTROL DIAGRAM. — 2 / M8.3
16. INSTALL (N) CEILING EXHAUST FAN IN LOCATION OF REMOVED FAN AND CONNECT FULL SIZED DISCHARGE TO EXHAUST DUCT OF REMOVED FAN. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION. REFER TO CEILING EXHAUST FAN MOUNTING DETAIL. OPENINGS WITHIN ROOF TO BE FIRE PROTECTED WITH MINERAL WOOL BATT INSULATION AND SEALANT. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL. — 1 / M8.2

KEY PLAN



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2. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL, PLUMBING AND FIRE SPRINKLER CONTRACTOR'S TO ELIMINATE ANY SPACE CONFLICTS. ADJUST DUCTWORK AS NEEDED TO FIT IN SPACE AND WITH OTHER TRADES AT NO ADDITIONAL COST TO THE PROJECT.
3. ALL SUPPLY AND RETURN PLENUMS ARE TO BE SUPPLIED WITH LINING, REFER TO SPECIFICATIONS.
4. ALL SUPPLY AND RETURN PLENUMS SHALL BE SEALED AIR TIGHT AT PENETRATIONS TO ROOF MEMBRANE.
5. MECHANICAL CONTRACTOR TO COORDINATE LOCATION OF DUCTS AND MECHANICAL UNITS WITH STRUCTURAL DWG'S. AND STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF UNITS TO ELIMINATE AND CONFLICTS.
6. DUCT MATERIALS AND GAUGES SHALL BE PER ANSI SMACNA 006-2006 HVAC DUCT CONSTRUCTION STANDARDS (CMC 602.1).
7. INSTALLATION OF MECHANICAL SYSTEMS SHALL BE IN COMPLIANCE WITH 2022 NON-RESIDENTIAL CALIFORNIA GREEN CODE NOTES INDICATED ON SHEET M0.2.
8. TESTING OF WIRE, INSULATION, PIPES, DUCTS, ETC, SHALL BE TESTED PER CBC 803 TO GET FLAME AND SMOKE RATING.
9. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL THE FINAL STARTUP OF THE HEATING COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER OR DEBRIS WHICH MAY ENTER THE SYSTEM (CAL GREEN 5.504.3.).

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4	08.31.26	BID SET

MECHANICAL PARTIAL FLOOR PLANS

M2.3

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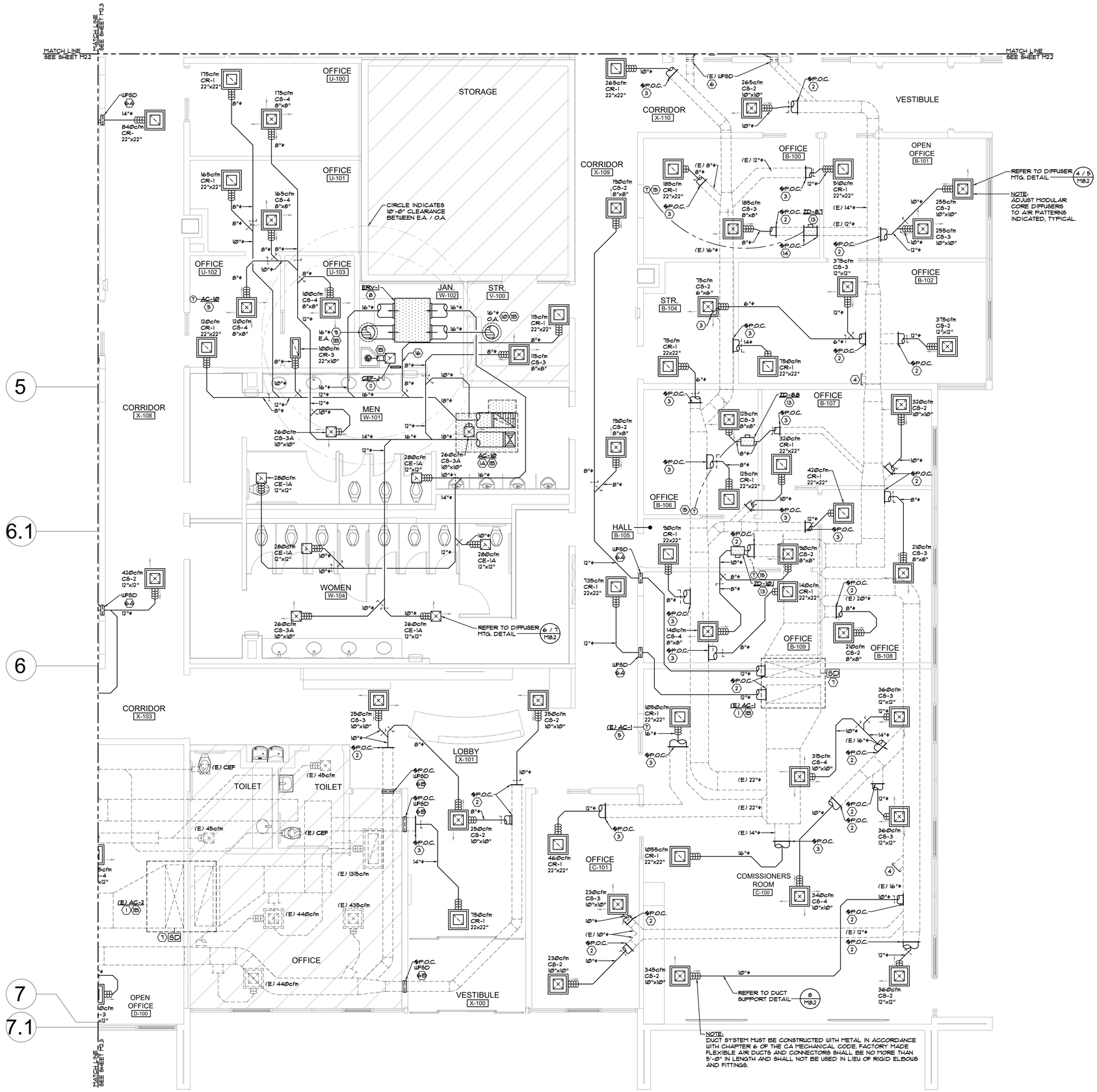


MECHANICAL PARTIAL FLOOR PLAN

SCALE: 1/4"=1'-0"

1 / M2.4

KEY NOTE SCHEDULE

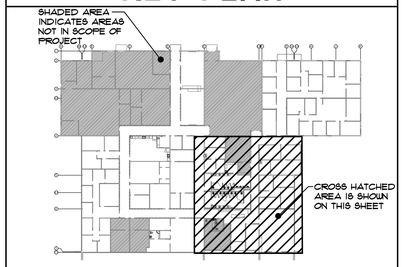
1. (E) AC UNIT ON ROOF ABOVE. PROVIDE THE FOLLOWING SERVICE TO (E) AC UNIT.
   A) WASH CONDENSER COIL.
   B) CHANGE FILTER.
   C) RECHARGE REFRIGERANT SYSTEM AS REQUIRED.
   D) CHANGE BELT (IF BELT DRIVE MACHINE).
   E) VACUUM OUT FAN HOUSING.
14. AC UNIT ON ROOF ABOVE W/ DUCTS SIZED AS FOLLOWS DOWN THRU THE ROOF.

AC UNIT NUMBER	CONNECTION SIZE @ UNIT	DUCT SIZES TO TRANSITION TO GOING THRU ROOF JOISTS
AC-10	S.A. = 17¾"x12⅛" R.A. = 25⅜"x10⅞"	S.A. = 18"x12⅛" R.A. = 25⅜"x18"

REFER TO AC UNIT MOUNTING DETAILS: 3 / M8.1, 4 / M8.1

15. OPENINGS WITHIN ROOF TO BE FIRE PROTECTED WITH MINERAL WOOL BATT INSULATION AND SEALANT. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.
2. ◆ P.O.C. CONNECT (N) S.A. DUCT TO (E) S.A. DUCT WITH SIZE AS INDICATED. MECHANICAL CONTRACTOR TO FIELD VERIFY SIZE / LOCATION OF (E) AND MAKE NECESSARY ADJUSTMENTS TO CARRY OUT INTENT OF DESIGN. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION.
3. ◆ P.O.C. CONNECT (N) R.A. DUCT TO (E) R.A. DUCT WITH SIZE AS INDICATED. MECHANICAL CONTRACTOR TO FIELD VERIFY SIZE / LOCATION OF (E) AND MAKE NECESSARY ADJUSTMENTS TO CARRY OUT INTENT OF DESIGN. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION.
4. (E) CAPPED DUCT, REFER TO DEMOLITION FLOOR PLAN FOR FURTHER INFORMATION.
5. PROVIDE GAS / ELECTRIC DIGITAL TIMECLOCK THERMOSTAT WITH TOP AT 48" A.F.F. REFER TO AC UNIT CONTROL DIAGRAM. 1 / M8.3
6. (E) WF8D-PROVIDE REQUIRED SERVICE TO MAKE OPERATIONAL. PROVIDE SMOKE DETECTOR THAT IS CSFM LISTED AND IS COMPATIBLE WITH FIRE ALARM PANEL.
6A. PROVIDE WALL FIRE / SMOKE DAMPER AT PENETRATION THRU RATED WALL ASSEMBLY. WALL FIRE / SMOKE DAMPER TO BE PROVIDED WITH SMOKE DETECTOR THAT IS CSFM LISTED AND COMPATIBLE WITH FIRE ALARM PANEL. REFER TO WALL FIRE / SMOKE DAMPER DETAIL. 4 / M8.3
6B. PROVIDE WALL FIRE / SMOKE DAMPER AT PENETRATION THRU RATED WALL ASSEMBLY. WALL FIRE / SMOKE DAMPER TO BE PROVIDED WITH SMOKE DETECTOR THAT IS CSFM LISTED AND COMPATIBLE WITH FIRE ALARM PANEL. REFER TO WALL FIRE / SMOKE DAMPER DETAIL. ◆ P.O.C. CONNECT TO (E) S.A. OR R.A. MECHANICAL CONTRACTOR TO FIELD VERIFY SIZE / LOCATION OF (E) AND MAKE NECESSARY ADJUSTMENTS TO CARRY OUT INTENT OF DESIGN. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION. 4 / M8.3
7. PROVIDE WITH SMOKE DETECTOR THAT IS CFSM LISTED AND IS COMPATIBLE WITH FIRE ALARM PANEL. PROVIDE SMOKE DETECTOR @ SUPPLY PLENUM TO SHUT UNIT DOWN UPON DETECTION OF SMOKE. REFER TO AC UNIT CONTROL DIAGRAM. 1 / M8.3
8. ERV (ENERGY RECOVERY UNIT) MOUNTED ABOVE NON-RATED CEILING WITH DUCT SIZES ROUTED AS INDICATED, PROVIDE SOLID ACCESS DOOR FLUSH WITH CEILING TO SERVICE ERV UNIT. REFER TO ERV UNIT MOUNTING DETAIL. 3 / M8.2
9. ERV EXHAUST AIR DUCT WITH SIZE AS INDICATED UP THRU ROOF TO ROOF CAP.
10. ERV OUTSIDE AIR DUCT WITH SIZE AS INDICATED DOWN THRU ROOF FROM ROOF CAP.
11. CEILING EXHAUST FAN WITH FULL SIZE DISCHARGE UP THRU ROOF TO ROOF CAP. REFER TO CEILING EXHAUST FAN MOUNTING DETAIL. 1 / M8.2
12. CEILING EXHAUST FAN WITH EXHAUST DISCHARGE SIZE AS INDICATED. COMBINE EXHAUST DUCTS TO ONE 10"ø COMMON RISER UP THRU ROOF TO ROOF CAP. REFER TO CEILING EXHAUST FAN MOUNTING DETAIL. 1 / M8.2
13. PROVIDE ZONE DAMPER, REFER TO CONTROL DIAGRAM. 2 / M8.3
14. ◆ P.O.C. CONNECT TO (E) S.A. DUCT WITH SIZE AS INDICATED. MECHANICAL CONTRACTOR TO FIELD VERIFY SIZE / LOCATION OF (E) AND MAKE NECESSARY ADJUSTMENTS TO CARRY OUT INTENT OF DESIGN. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION.
15. ZONE DAMPER THERMOSTAT MOUNTED WITH TOP AT 48" A.F.F. REFER TO CONTROL DIAGRAM. 2 / M8.3
16. PROVIDE 8½" x 11" ZONING MAP WITHIN FRAME PER SHEET M2.5 INDICATING AREAS SERVED BY EACH HVAC SYSTEM.

KEY PLAN



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MECHANICAL PARTIAL FLOOR PLANS

M2.4

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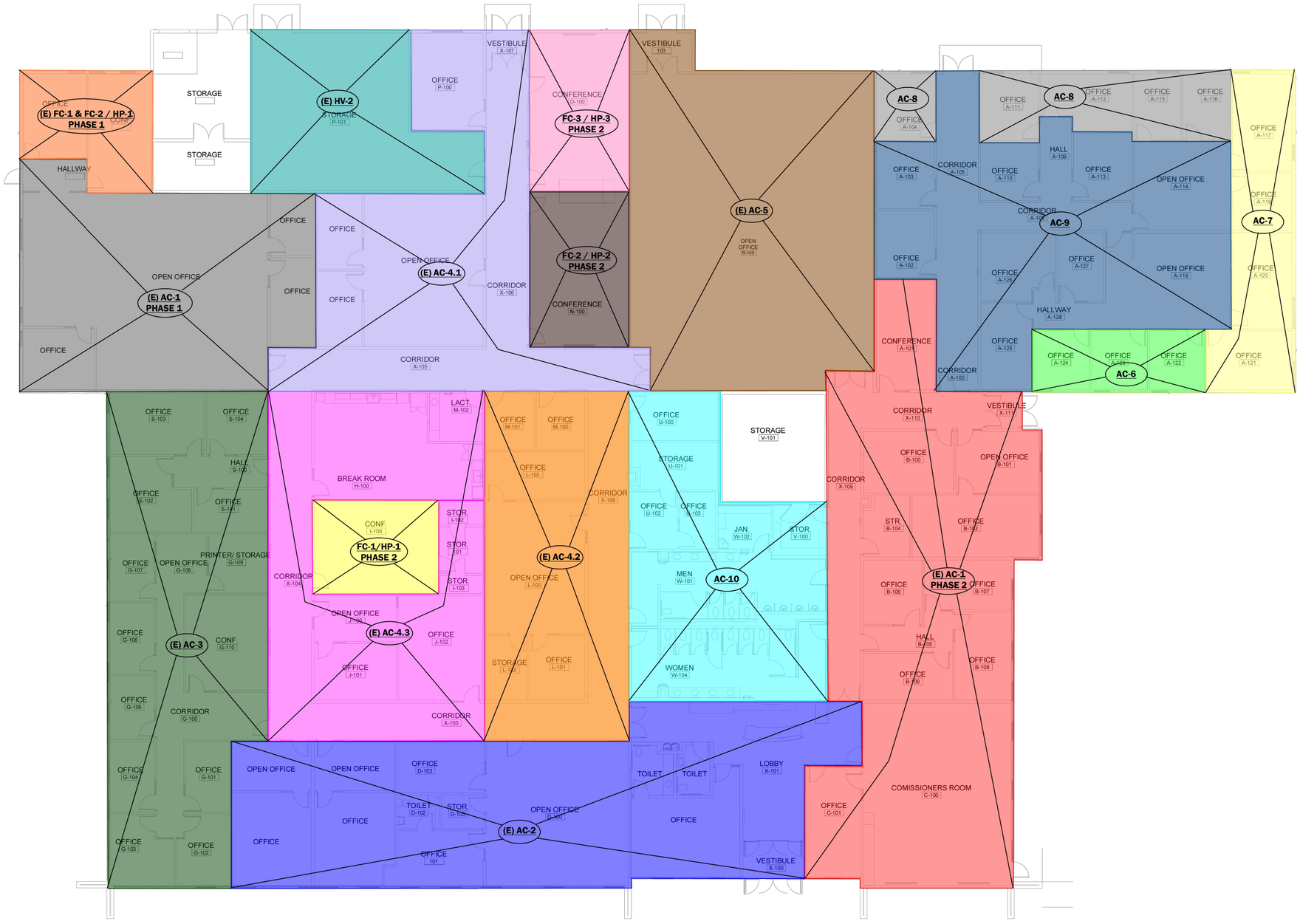

HVAC EQUIPMENT ZONING MAP

SCALE: N.T.S.

NOTE:
PLACE ZONING MAP WITHIN PICTURE FRAME WITH CLEAR PLASTIC PANE IN JANITORS ROOM W-102.

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HVAC EQUIPMENT ZONING MAP

M2.5

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REFRIGERANT PIPE SIZE SCHEDULE

SPLIT SYSTEMS MARK NUMBERS		TONNAGE	REFRIGERANT PIPE SIZE	
			SUCTION	LIQUID
FC-1	HP-1	2.0	1/2"	1/4"
FC-2	HP-2	2.5	5/8"	3/8"
FC-3	HP-3	3.0	5/8"	3/8"

NOTE:
1) PROVIDE 1/2" (NON-RES) PIPE INSULATION ON SUCTION & LIQUID LINES PER 2022 BUILDING ENERGY EFFICIENCY STD.

GENERAL NOTES

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4. ALL SUPPLY AND RETURN PLENUMS SHALL BE SEALED AIR TIGHT AT PENETRATIONS TO ROOF MEMBRANE.
5. MECHANICAL CONTRACTOR TO COORDINATE LOCATION OF DUCTS AND MECHANICAL UNITS WITH STRUCTURAL DWGS. AND STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF UNITS TO ELIMINATE AND CONFLICTS.
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8. TESTING OF WIRE, INSULATION, PIPES, DUCTS, ETC, SHALL BE TESTED PER CBC 803 TO GET FLAME AND SMOKE RATING.

KEY NOTE SCHEDULE

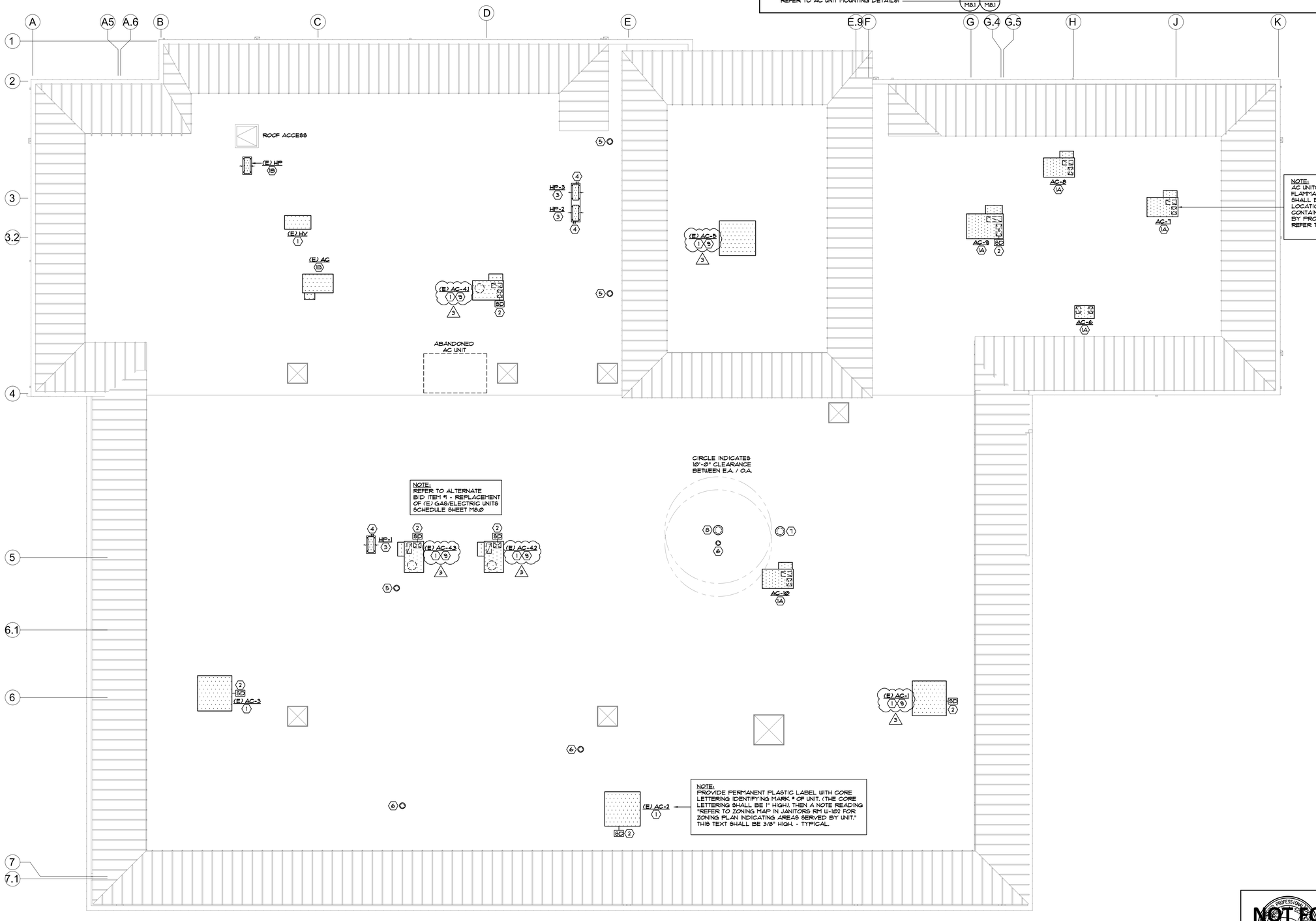
1. (E) AC UNIT ON ROOF. PROVIDE THE FOLLOWING SERVICE TO EXISTING AC UNIT.
   A) WASH CONDENSER COIL.
   B) CHANGE FILTER.
   C) RECHARGE REFRIGERANT SYSTEM AS REQUIRED.
   D) CHANGE BELT (IF BELT DRIVE MACHINE).
   E) VACUUM OUT FAN HOUSING.

1A. AC UNIT ON ROOF WITH DUCTS SIZES AS FOLLOWS DOWN THRU THE ROOF.

AC UNIT NUMBER	CONNECTION SIZE @ UNIT	DUCT SIZES TO TRANSITION TO GOING THRU ROOF JOISTS
AC-6	S.A. = 16"x10" R.A. = 16"x10"	S.A. = 16"x10" R.A. = 16"x10"
AC-7	S.A. = 17⅜"x12⅛" R.A. = 25⅝"x10⅛	S.A. = 18"x12⅛" R.A. = 25⅝"x10⅛
AC-8	S.A. = 17⅜"x12⅛" R.A. = 25⅝"x10⅛	S.A. = 18"x12⅛" R.A. = 25⅝"x10⅛
AC-9	S.A. = 28¾"x14" R.A. = 36⅝"x12⅝"	S.A. = 28¾"x14" R.A. = 36⅝"x12⅝"
AC-10	S.A. = 17⅜"x12⅛" R.A. = 25⅝"x10⅛"	S.A. = 18"x12⅛" R.A. = 25⅝"x18"

REFER TO AC UNIT MOUNTING DETAILS: 3/M8.1, 4/M8.1

2. EXISTING AC AND HEAT PUMP UNIT INSTALLED UNDER PHASE 1 WORK.
2. PROVIDE WITH SMOKE DETECTOR THAT IS CFSM LISTED AND IS COMPATIBLE WITH FIRE ALARM PANEL. PROVIDE SMOKE DETECTOR @ SUPPLY PLENUM TO SHUT UNIT DOWN UPON DETECTION OF SMOKE. REFER TO AC UNIT CONTROL DIAGRAM. 1/M8.3
3. HEAT PUMP UNITS ON ROOF. REFER TO HEAT PUMP UNIT MOUNTING DETAIL: 5/M8.1
4. PROVIDE REFRIGERANT PIPING ROOF THRU WITHIN ROOF SAFE TO DESIGNATED FAN COIL SHOWN ON FLOOR PLANS. REFER TO ROOF SAFE DETAIL 7/M8.1 AND REFRIGERANT PIPING DIAGRAM. 8/M8.1 REFER TO PIPE SIZE SCHEDULE THIS SHEET FOR REQUIRED PIPE SIZE.
5. O.A. ROOF CAP, REFER TO VENT TERMINATION DETAIL. 9/M8.2
6. E.A. ROOF CAP, REFER TO VENT TERMINATION DETAIL. 9/M8.2
7. ERV O.A. GOOSENECK VENT TERMINATION. REFER TO DETAIL. 10/M8.2
8. ERV E.A. GOOSENECK VENT TERMINATION. REFER TO DETAIL. 10/M8.2
9. ALTERNATE BID ITEM 1 REPLACEMENT OF (E) AC UNITS: 3
   (E) AC-1
   (E) AC-3
   (E) AC-4.1, AC-4.2 & AC-4.3
   (E) AC-5
   SCOPE AS FOLLOWS:
   1. INSTALL (N) AC UNIT ON (E) CURB WITH THE USE OF AN ADPATOR CURB.
   2. RECONNECT (E) GAS, CONDENSATE AND ELECTRICAL TO (N) UNIT, REFER TO PLUMBING AND ELECTRICAL DRAWINGS.
   3. REFER TO DETAIL 10 AND 11 ON SHEET M8.1 FOR INSTALLATION OF (N) AC UNIT ON (E) CURB, WITH USE OF THE ADAPTOR CURB.



MECHANICAL ROOF PLAN

SCALE: 1/8"=1'-0"

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MECHANICAL ROOF PLAN

M3.1

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SPLIT SYSTEM (HP/FAN COIL) KEY NOTE SCHEDULE

1. PROVIDE WITH THE FOLLOWING ACCESSORIES:
   - A). SINGLE POINT ELECTRICAL SERVICE, POWER TO BE PROVIDED THRU OUTDOOR UNIT
   - B). THERMOSTAT TO BE HARD WIRED
   - C). REFRIGERANT CHARGE PER MANUFACTURERS WRITTEN INSTRUCTIONS.
   - D). REFER TO PARTIAL PLANS FOR THERMOSTAT LOCATION
   - E). REFER TO DETAIL 5/M8.3 FOR REQUIREMENTS FOR LABELING OF FLAMMABLE REFRIGERANT.

SPLIT SYSTEM (HP/FAN COIL) REFRIGERANT PIPE KEY NOTE SCHEDULE

1. PROVIDE 1/2" (NON-RES) PIPE INSULATION ON REFIGERANT PIPE LINES PER 2022 BUILDING ENERGY EFFICIENCY STD. REFER TO DETAIL 5/M8.3 FOR REQUIREMENTS FOR LABELING OF FLAMMABLE REFRIGERANT.

ZONE DAMPER SCHEDULE
ZD-8.1,-8.2,-8.3,-8.4,-8.5,-8.6,-8.7,-8.8 & ZD-10.1

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Submit 4075-IF 1/17

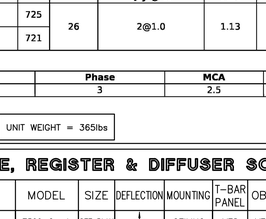
Model 4075-IF
Motorized Damper
Modulating VAV Damper w/ 90 Second Motor

Application and Design

The Young Regulator's "Simple Zone" product line makes stand-alone zoning easier than ever. Each damper assembly comes with a pre-installed temperature sensor, primary actuator, and integrated interface board for easy field connection to our T-720 thermostat.

The 4075-IF Round Zone Damper has a shell and blade constructed of galvanized steel, with a 1/2" round plated steel damper shafts that pivot in oil impregnated bronze bushing. One end is straight, with one end crimped.

PROVIDE 120V~1ø
POWER TO INTERFACE BOARD MOUNTED IN ATTIC – SEE DETAIL 2/M8.3



*Paired with the T-720 Thermostat (Sold Separately)

STANDARD CONSTRUCTION	
Shell	6" – 10" – 24 ga. 12" – 20" – 20 ga. Galvanized Steel
Blade	20 ga. Galvanized Steel
Shaft	½" Plated Steel
Bushing	Oil Impregnated Bronze
Low Leak Seals	EPDM Rubber

SIZE INFORMATION
One end straight, one end crimped
Rolled stiffening beads
NOTE: Dampers greater than 14" diameter will be a spiral shell

Diameter	6" – 20"
Shell Length	8"

BELIMO LMB24 ACTUATOR
NJVI On-Off and Floating Point Control.
Min and Max Air Adjustments Reflective Visual Position Indicator.

Volts	24V
Watts	1.5
VA	3
Noise	<35 dB (A)
Timing	95 seconds
Torque	45 in. lb.

OPTIONS

Transformers Pri# 3035	

ZD–8.1 thru 8.8: IS FOR A 8"ø SHELL ZD–10.1: IS FOR A 10"ø SHELL

FUJITSU EQUIPMENT SCHEDULE

FC–1 / HP–1 (1)(1)

						AOUH24KUAS / AOUH36KUAS1
Indoor Unit						AUHU24KUAS
Outdoor Unit						AOUH36KUAS1
System Name						24KUAS1U
AHRI Number						21544553
SEER2		Cooling		Btu/HW		23.2
EER2						13.1
HSPF 2 (IV) / HSPF 2 (V)		Heating		kW/kW		11 / 8.5
COP2						3.5
Outdoor Operation Range		Cooling		°F (°C)		-5 to 122°F (-21 to 50°F)
		Heating				-5 to 75 (-21 to 24)
Indoor Capacity		Cooling	Rated	Btu/h		24000
			Min.—Max.			5,400—28,000
		Heating 47°DB (Outdoor temp.)	Rated			27000
			Min.—Max.			5,400—32,000
		Heating 17°DB (Outdoor temp.)(1)	Rated			17800
			Max.			26000
		Heating 5°DB (Outdoor temp.)(1)	Rated			23900
			Max.			
Outdoor Connection pipe	Size	Liquid		in (mm)		Ø1/4 (Ø6.35)
		Gas				Ø1/2 (Ø12.70)
		Method				FLARE
		Pre-charge length		ft (m)		66 (20)
		Min. length				16 (5)
		Max. length				164 (50)
		Max. height difference				98 (30)
Indoor Dimensions (H × W × D)		Net		in (mm)		9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840)
		Gross				11-3/4 × 37-3/8 × 38-3/16 (298 × 950 × 970)
Indoor Weight		Net		lb (kg)		53 (24)
		Gross				64 (29)
Outdoor Dimensions (H × W × D)		Net		in (mm)		31 × 37 × 12-5/8 (788 × 940 × 320)
		Gross				38-1/16 × 40-7/16 × 17-1/2 (966 × 1,027 × 445)
Outdoor Weight		Net		lb (kg)		115 (52)
		Gross				132 (60)
Indoor Fan	Airflow rate	Cooling	High	CFM (m³/h)		677 (1,150)
			Med			618 (1,050)
			Low			577 (980)
			Quiet			512 (870)
		Heating	High			677 (1,150)
			Med			618 (1,050)
			Low			577 (980)
			Quiet			512 (870)
	Type × Qty					TURBO FAN × 1
Outdoor Fan		Motor output		W		81
	Airflow rate	Cooling		CFM (m³/h)		2,187 (3,715)
		Heating				
	Type × Qty					PROPELLER FAN × 1
Indoor Sound Pressure Level(1)		Motor output		W		100
		Cooling	High	dB (A)		36
			Med			34
			Low			33
			Quiet			30
		Heating	High			36
			Med			34
			Low			33
			Quiet			30
Outdoor Sound Pressure Level(1)		Cooling				52
		Heating				54
Outdoor Refrigerant		Type				R32
		Charge		lb oz		3 lb 5 oz
				g		1500
Additional Charge Calculation				oz/ft		0.22
				g/m		20
Outdoor Refrigerant Oil		Type				RMM68AF
		Amount		in³ (cm³)		48.8 (800)
Indoor Moisture removal				pints/h (L/h)		6.1 (2.9)
Indoor Drain hose		Material				POLYVINYL CHLORIDE
		Tip Diameter		in (mm)		Ø13/16 (Ø20.7) (I.D.), Ø1-1/16 (Ø26.6) (O.D.)
Indoor Operation range		Cooling		°F (°C)		64 to 90 (18 to 32)
				%RH		80 or less
		Heating		°F (°C)		60 to 86 (16 to 30)
System power supply		Power Supply				208/230 V~ 60 Hz
		Available Voltage Range				187—253
		Voltage		V		208/230
		Frequency		Hz		60
		Available voltage range		V		187—253
Indoor Current		Cooling	Rated	A		8.1
		Heating				8.9
Maximum Operating Current(4)			Cooling			15.9
			Heating			15.9
Outdoor Starting Current						8.9
MCA(4)						15.9
Wiring spec.(1)		MAX. CKT. BKR(1)				20
Indoor Input Power		Cooling	Rated	kW		1.83
			Min.—Max.			0.39—2.82
		Heating 47°DB (Outdoor temp.)	Rated			2.02
			Min.—Max.			0.45—2.90
		Heating 17°DB (Outdoor temp.)(1)	Rated			1.62
			Max.			3.16
		Heating 5°DB (Outdoor temp.)(1)	Rated			3.26
			Max.			
Indoor Power Factor		Cooling		%		98.2
		Heating				98.7
Energy Star(5)						ES, ESCC, ESME

FC–2 / HP–2 (1)(1)

						AOUH30KUAS / AOUH36KUAS1
Indoor Unit						AUHU30KUAS
Outdoor Unit						AOUH36KUAS1
System Name						30KUAS1U
AHRI Number						21544554
SEER2		Cooling		Btu/HW		22.4
EER2						12.5
HSPF 2 (IV) / HSPF 2 (V)		Heating		kW/kW		10.6 / 8.4
COP2						4.04
Outdoor Operation Range		Cooling		°F (°C)		-5 to 122°F (-21 to 50°F)
		Heating				-5 to 75 (-21 to 24)
Indoor Capacity		Cooling	Rated	Btu/h		30000
			Min.—Max.			9,600—35,000
		Heating 47°DB (Outdoor temp.)	Rated			32500
			Min.—Max.			9,200—38,000
		Heating 17°DB (Outdoor temp.)(1)	Rated			21300
			Max.			30900
		Heating 5°DB (Outdoor temp.)(1)	Rated			28000
			Max.			
Outdoor Connection pipe	Size	Liquid		in (mm)		Ø3/8 (Ø9.52)
		Gas				Ø5/8 (Ø15.88)
		Method				FLARE
		Pre-charge length		ft (m)		66 (20)
		Min. length				16 (5)
		Max. length				164 (50)
		Max. height difference				98 (30)
Indoor Dimensions (H × W × D)		Net		in (mm)		11-5/16 × 33-1/16 × 33-1/16 (288 × 840 × 840)
		Gross				13-3/8 × 37-3/8 × 38-3/16 (340 × 950 × 970)
Indoor Weight		Net		lb (kg)		57 (26)
		Gross				68 (31)
Outdoor Dimensions (H × W × D)		Net		in (mm)		39-5/16 × 37 × 12-5/8 (998 × 940 × 320)
		Gross				46-5/16 × 40-7/16 × 17-1/2 (1,176 × 1,027 × 445)
Outdoor Weight		Net		lb (kg)		137 (62)
		Gross				157 (71)
Indoor Fan	Airflow rate	Cooling	High	CFM (m³/h)		942 (1,600)
			Med			848 (1,440)
			Low			771 (1,310)
			Quiet			677 (1,150)
		Heating	High			942 (1,600)
			Med			848 (1,440)
			Low			771 (1,310)
			Quiet			677 (1,150)
	Type × Qty					TURBO FAN × 1
Outdoor Fan		Motor output		W		81
	Airflow rate	Cooling		CFM (m³/h)		2,301 (3,910)
		Heating				2,219 (3,770)
	Type × Qty					PROPELLER FAN × 1
Indoor Sound Pressure Level(1)		Motor output		W		120
		Cooling	High	dB (A)		40
			Med			38
			Low			36
			Quiet			33
		Heating	High			40
			Med			38
			Low			36
			Quiet			33
Outdoor Sound Pressure Level(1)		Cooling				55
		Heating				57
Outdoor Refrigerant		Type				R32
		Charge		lb oz		4 lb 7 oz
				g		2000
Additional Charge Calculation				oz/ft		0.43
				g/m		40
Outdoor Refrigerant Oil		Type				RMM68AF
		Amount		in³ (cm³)		48.8 (800)
Indoor Moisture removal				pints/h (L/h)		6.3 (3.0)
Indoor Drain hose		Material				POLYVINYL CHLORIDE
		Tip Diameter		in (mm)		Ø13/16 (Ø20.7) (I.D.), Ø1-1/16 (Ø26.6) (O.D.)
Indoor Operation range		Cooling		°F (°C)		64 to 90 (18 to 32)
				%RH		80 or less
		Heating		°F (°C)		60 to 86 (16 to 30)
System power supply		Power Supply				208/230 V~ 60 Hz
		Available Voltage Range				187—253
		Voltage		V		208/230
		Frequency		Hz		60
		Available voltage range		V		187—253
Indoor Current		Cooling	Rated	A		10.6
		Heating				10.2
Maximum Operating Current(4)			Cooling			19.8
			Heating			19.8
Outdoor Starting Current						10.6
MCA(4)						19.8
Wiring spec.(1)		MAX. CKT. BKR(1)				25
Indoor Input Power		Cooling	Rated	kW		2.4
			Min.—Max.			0.78—3.55
		Heating 47°DB (Outdoor temp.)	Rated			2.32
			Min.—Max.			0.59—3.61
		Heating 17°DB (Outdoor temp.)(1)	Rated			1.96
			Max.			3.8
		Heating 5°DB (Outdoor temp.)(1)	Rated			3.87
			Max.			
Indoor Power Factor		Cooling		%		98.4
		Heating				98.9
Energy Star(5)						ES, ESCC, ESME

FC–3 / HP–3 (1)(1)

						AUUH36KUAS / AOUH36KUAS1
Indoor Unit						AUHU36KUAS
Outdoor Unit						AOUH36KUAS1
System Name						36KUAS1U
AHRI Number						21544555
SEER2		Cooling		Btu/HW		21.3
EER2						11.2
HSPF 2 (IV) / HSPF 2 (V)		Heating		kW/kW		10.5 / 8.2
COP2						3.94
Outdoor Operation Range		Cooling		°F (°C)		-5 to 122°F (-21 to 50°F)
		Heating				-5 to 75 (-21 to 24)
Indoor Capacity		Cooling	Rated	Btu/h		36000
			Min.—Max.			9,600—39,000
		Heating 47°DB (Outdoor temp.)	Rated			38500
			Min.—Max.			9,200—43,000
		Heating 17°DB (Outdoor temp.)(1)	Rated			25400
			Max.			34500
		Heating 5°DB (Outdoor temp.)(1)	Rated			31000
			Max.			
Outdoor Connection pipe	Size	Liquid		in (mm)		Ø3/8 (Ø9.52)
		Gas				Ø5/8 (Ø15.88)
		Method				FLARE
		Pre-charge length		ft (m)		66 (20)
		Min. length				16 (5)
		Max. length				164 (50)
		Max. height difference				98 (30)
Indoor Dimensions (H × W × D)		Gross		in (mm)		11-5/16 × 33-1/16 × 33-1/16 (288 × 840 × 840)
		Net				13-3/8 × 37-3/8 × 38-3/16 (340 × 950 × 970)
Indoor Weight		Gross		lb (kg)		57 (26)
		Net				68 (31)
Outdoor Dimensions (H × W × D)		Gross		in (mm)		39-5/16 × 37 × 12-5/8 (998 × 940 × 320)
		Net				46-5/16 × 40-7/16 × 17-1/2 (1,176 × 1,027 × 445)
Outdoor Weight		Gross		lb (kg)		137 (62)
		Net				157 (71)
Indoor Fan	Airflow rate	Cooling	High	CFM (m³/h)		1,118 (1,900)
			Med			942 (1,600)
			Low			848 (1,440)
			Quiet			695 (1,180)
		Heating	High			1,118 (1,900)
			Med			942 (1,600)
			Low			848 (1,440)
			Quiet			695 (1,180)
	Type × Qty					TURBO FAN × 1
Outdoor Fan		Motor output		W		81
	Airflow rate	Cooling		CFM (m³/h)		2,502 (4,250)
		Heating				2,431 (4,130)
	Type × Qty					PROPELLER FAN × 1
Indoor Sound Pressure Level(1)		Motor output		W		120
		Cooling	High	dB (A)		45
			Med			41
			Low			38
			Quiet			34
		Heating	High			45
			Med			41
			Low			38
			Quiet			34
Outdoor Sound Pressure Level(1)		Cooling				57
		Heating				59
Outdoor Refrigerant		Type				R32
		Charge		lb oz		4 lb 7 oz
				g		2000
Additional Charge Calculation				oz/ft		0.43
				g/m		40
Outdoor Refrigerant Oil		Type				RMM68AF
		Amount		in³ (cm³)		48.8 (800)
Indoor Moisture removal				pints/h (L/h)		7.8 (3.7)
Indoor Drain hose		Material				POLYVINYL CHLORIDE
		Tip Diameter		in (mm)		Ø13/16 (Ø20.7) (I.D.), Ø1-1/16 (Ø26.6) (O.D.)
Indoor Operation range		Cooling		°F (°C)		64 to 90 (18 to 32)
				%RH		80 or less
		Heating		°F (°C)		60 to 86 (16 to 30)
System power supply		Power Supply				208/230 V~ 60 Hz
		Available Voltage Range				187—253
		Voltage		V		208/230
		Frequency		Hz		60
		Available voltage range		V		187—253
Indoor Current		Cooling	Rated	A		14.1
		Heating				12.4
Maximum Operating Current(4)			Cooling			20.8
			Heating			20.8
Outdoor Starting Current						14.1
MCA(4)						20.8
Wiring spec.(1)		MAX. CKT. BKR(1)				25
Indoor Input Power		Cooling	Rated	kW		3.2
			Min.—Max.			0.39—4.08
		Heating 47°DB (Outdoor temp.)	Rated			2.82
			Min.—Max.			0.59—3.97
		Heating 17°DB (Outdoor temp.)(1)	Rated			2.38
			Max.			4.2
		Heating 5°DB (Outdoor temp.)(1)	Rated			4.29
			Max.			
Indoor Power Factor		Cooling		%		98.7
		Heating				98.9
Energy Star(5)						ESCC, ESME

ERV–1 – RENEWAIRE HE1.5JINH–S34SS––ANT––L

	SUMMER			WINTER		
	Outdoor Air	Return Air	Supply Air	Outdoor Air	Return Air	Supply Air
Standard Flow Rate **SCFM**	1145*	1120	1120	1145*	1120	1120
Actual Flow Rate **ACFM**	1224*	1140	1157	1058*	1125	1098
Dry Bulb **°F**	102.0	75.0	83.2	28.0	70.0	57.3
Wet Bulb **°F**	72.0	62.5	66.1	26.8	51.5	44.6
Enthalpy (H) **BTU/lb**	35.5	28.1	30.7	9.6	21.0	17.4
Moisture Ratio (MR) **grains/lb**	69.7	64.7	68.6	19.1	27.1	23.5
Supply Air - External Static Pressure **in w.g.**		0.86			0.86	
Exhaust Air - External Static Pressure **in w.g.**		0.95			0.95	
Sensible effectiveness **%**		69.8			69.8	
Total effectiveness **%**		64.7			68.1	
Enthalpy Recovery Ratio (ERR) **%** - 90.1 Compliance ✓		64.7			68.1	
Sensible Energy Recovery Ratio **%**		69.8			69.8	
Moisture removed **grains/lb**		1.1			-4.4	

	Sen	Lat	Tot	Sen	Lat	Tot
Original load **BTUH [Tons]**	32659 [2.7]	4520 [0.4]	37179 [3.1]	50803	6544	57348
Load with RenewAire **BTUH [Tons]**	9864 [0.8]	3257 [0.3]	13121 [1.1]	15344	2939	18283
Total energy saved **BTUH [Tons]**	22795 [1.9]	1262 [0.1]	24058 [2.0]	35460	3605	39065

*Note: OA Flow Rate values are gross airflow, all others are net airflow.
Note: For full certified ERV performance, please see AHRI 1060 Report.
Note: Sensible cooling design conditions were used for the summer performance results.

Fans

	Gross CFM	ESP	Filters	Fan Speed (RPM)	Watts	Elevation	Motors Protected by Motor Starters		Motors Protected by VFDs	
							Qty @ W	FLA	Qty @ W	FLA
OA	1145	0.86	2" MERV 13	1475	725	26	2@1.0	1.13	None	-
RA	1120	0.95	2" MERV 8	1475	721					

Unit Electrical Data

Volts	Hertz	Phase	MCA	MOP
460	60	3	2.5	15

System Fan Efficacy

CFM/Watt	Watt/CFM
0.77	1.29

UNIT WEIGHT = 365lbs

GRILLE, REGISTER & DIFFUSER SCHEDULE

MARK	MAKE	MODEL	SIZE	DEFLECTION	MOUNTING	T-BAR PANEL	OBD	REMARKS (SEE BELOW)
CS–4	NAILOR	7500–0––L	SEE PLAN	┼	CEILING	YES	YES	W/ AW APPLIANCE WHITE FINISH
CS–3	NAILOR	7500–0––L	SEE PLAN	├	CEILING	YES	YES	W/ AW APPLIANCE WHITE FINISH
CS–2	NAILOR	7500–0––L	SEE PLAN	┤├	CEILING	YES	YES	W/ AW APPLIANCE WHITE FINISH
CS–2A	NAILOR	7500–0––S	SEE PLAN	┤├	CEILING	NO	YES	W/ AW APPLIANCE WHITE FINISH
CS–3A	NAILOR	7500–0––S	SEE PLAN	├	CEILING	NO	YES	W/ AW APPLIANCE WHITE FINISH
CR–1	NAILOR	6145H	24"x24"	---	CEILING	YES	--	W/ AW APPLIANCE WHITE FINISH
CR–2	NAILOR	6145H	24"x48"	---	CEILING	YES	--	W/ AW APPLIANCE WHITE FINISH
CR–3	NAILOR	6145H	12"x24"	---	CEILING	YES	--	W/ AW APPLIANCE WHITE FINISH
CR–1A	NAILOR	5145H	---	---	CEILING	NO	--	W/ AW APPLIANCE WHITE FINISH
CE–1A	NAILOR	5145H	---	---	CEILING	NO	--	W/ AW APPLIANCE WHITE FINISH
CR–1F MA–1F	NAILOR	61FB45–L	SEE PLAN	---	CEILING	YES	--	CEILING RETURN AIR w/ 2" MERV 13 FILTER, TO BE AFF FLANDERS PREPLEAT M13

CARRIER EQUIPMENT SCHEDULE

MARK	MAKE & MODEL	DESCRIPTION	CFM	MIN OA	ESP	CAPACITY: HEATING MBH IN	HEATING MBH OUT	AFUE	COOLING MBH SEN	COOLING MBH TOTAL	EDB	EWB	EER	EER2	IEER	SEER	SEER2	ELECTRICAL CHARACTERISTICS: SUPPLY FAN HP	SUPPLY FAN FLA	COMPRESSOR RLA	COMPRESSOR LRA	COND. FAN FLA	COMP. FAN FLA	POWER DISC. FLA	POWER SUPPLY: FLA	MCA	MOCP	VOLTS	ø	UNIT OPER. WT.(lbs)	REMARKS
(E) AC–1	EXISTING 12.5 TON	ROOFTOP GAS/ ELECTRIC	5000	567																											
(E) AC–2	EXISTING 16 TON	ROOFTOP GAS/ ELECTRIC	6400	690																											
(E) AC–3	EXISTING 12.5 TON	ROOFTOP GAS/ ELECTRIC	5000	520																											
(E) AC–4.1	EXISTING 6 TON	ROOFTOP GAS/ ELECTRIC	2400	344																											
(E) AC–4.2	EXISTING 6 TON	ROOFTOP GAS/ ELECTRIC	2100	303																											
(E) AC–4.3	EXISTING 6 TON	ROOFTOP GAS/ ELECTRIC	2400	581																											
(E) AC–5	EXISTING 12.5 TON	ROOFTOP GAS/ ELECTRIC	5000	457																											
(1) (N) AC–6	CARRIER 48NLUB300403	ROOFTOP GAS/ ELECTRIC	900	63	0.5	40	33	81%	20.47	25.94	105 / 67	---	11.05	---	---	13.4	0.35	3.9	12.5	67	1.05	0.65	---	18.1	20.6	30	208	1	450		
(1) (N) AC–7	CARRIER 48FEGA05A2M6	ROOFTOP GAS/ ELECTRIC	1600	126	1.0	60	49	81%	32.73	35.78	105 / 67	---	11.5	---	---	13.4	1.05	1.7	6.0	49	0.80	0.25	---	8.75	10.0	15	460	3	790		
(1) (N) AC–8	CARRIER 48FEGA05A2M6	ROOFTOP GAS/ ELECTRIC	1600	228	1.0	60	49	81%	32.73	35.78	105 / 67	---	11.5	---	---	13.4	1.05	1.7	6.0	49	0.80	0.25	---	8.75	10.0	15	460	3	790		
(1) (N) AC–9	CARRIER 48FEDM08A2M6	ROOFTOP GAS/ ELECTRIC	2600	452	1.0	125	103	82%	59.02	63.69	105 / 67	11.2	---	15.0	---	---	1.60	3.0	20	6.4	20	49	20	0.8	0.25	---	17.65	19.0	25	460	3	1090	
(1) (N) AC–10	CARRIER 48FEGA05A2M6	ROOFTOP GAS/ ELECTRIC	1600	98	1.0	60	49	81%	32.73	35.78	105 / 67	---	11.5	---	---	13.4	1.05	1.7	6.0	49	0.80	0.25	---	8.75	10.0	15	460	3	790		

ALTERNATE BID ITEM #1 – REPLACEMENT OF (E) PACKAGED GAS ELECTRIC UNIT

CARRIER EQUIPMENT SCHEDULE

(3)

MARK	NEW MAKE & MODEL	EXISTING MAKE & MODEL	DESCRIPTION	CFM	MIN OA	ESP	CAPACITY: HEATING MBH IN	HEATING MBH OUT	AFUE	COOLING MBH SEN	COOLING MBH TOTAL	EDB	EWB	EER	EER2	IEER	SEER	SEER2	ELECTRICAL CHARACTERISTICS: SUPPLY FAN HP	SUPPLY FAN FLA	COMPRESSOR RLA	COMPRESSOR LRA	COND. FAN FLA	COMP. FAN FLA	POWER DISC. FLA	POWER SUPPLY: FLA	MCA	MOCP	VOLTS	ø	(N) UNIT OPER. WT. ADAPTOR CURB INCLUDED (LBS)	(E) UNIT OPER. WT. (LBS)
(2) (E) AC–1	CARRIER 48FEDM16A2M6–0A3A0	CARRIER 48DP014620	ROOFTOP GAS/ ELECTRIC	6000	567	0.75	180	146	81%	118.56	165.13	105 / 67	10.8	---	14.5	---	---	2.73	3.5	1@13.4 1@9.1	1@123 1@75	3@0.8	0.25	---	28.65	32	45	460	3	1971	1960
(2) (E) AC–3	CARRIER 48FEDM14A3M6–0A3A0	CARRIER 48DP014620	ROOFTOP GAS/ ELECTRIC	5000	520	0.75	180	148	82%	92.08	125.9	105 / 67	10.8	---	15.0	---	---	4.0	5.6	1@8.8 1@9.1	2@75	7.4	0.25	---	31.15	34	40	460	3	1560	1960
(2) (E) AC–4.1	CARRIER 48FEDM07A2M6–0A3A0	BRYANT 580FEV073074AA	ROOFTOP GAS/ ELECTRIC	2400	344	0.75	67	54	81%	50.84	67.86	105 / 67	11.2	---	15.5	---	---	1.31	2.6	9.6	71	0.8	0.25	---	13.25	16	25	460	3	960	780
(2) (E) AC–4.2	CARRIER 48FEDM07A2M6–0A3A0	BRYANT 580FEV073074AA	ROOFTOP GAS/ ELECTRIC	2400	303	0.75	67	54	81%	50.84	67.86	105 / 67	11.2	---	15.5	---	---	1.31	2.6	9.6	71	0.8	0.25	---	13.25	16	25	460	3	960	780
(2) (E) AC–4.3	CARRIER 48FEDM07A2M6–0A3A0	BRYANT 580FEV073074AA	ROOFTOP GAS/ ELECTRIC	2400	581	0.75	67	54	81%	50.84	67.86	105 / 67	11.2	---	15.5	---	---	1.31	2.6	9.6	71	0.8	0.25	---	13.25	16	25	460	3	960	780
(2) (E) AC–5	CARRIER 48FEDM14A3M6–0A3A0	CARRIER 48DP014620	ROOFTOP GAS/ ELECTRIC	5000	457	0.75	180	148	82%	92.08	125.9	105 / 67	11.2	---	15.5	---	---	4.0	5.6	1@8.8 1@9.1	2@75	7.4	0.25	---	31.15	34	40	460	3	1560	2160

EQUIPMENT SCHEDULE KEYNOTE SCHEDULE

1. PROVIDE AC UNITS WITH THE FOLLOWING:
   - A. MTD. ON PRE–MANUFACTURED CURBS
   - B. PRE–MANUFACTURED HOLD DOWN CLAMPS.
   - C. CONDENSER COIL GUARD (PLENUMS INC. INC. 18 GA. EXTRUDED ALUMINUM STEEL GUARD.)
   - D. COMPRESSOR PHASE PROTECTOR
   - E. ECONOMIZER WITH EQUAL AREA INTAKE & RELIEF.
   - F. HINGED ACCESS PANEL @ THE FOLLOWING LOCATIONS:
     1). FILTER
     2). CONTROL BOX
     3). EVAPORATIVE FAN MTR.
     4). COMPRESSOR
   - G. REFER TO DETAIL 5/M8.3 FOR REQUIREMENTS FOR LABELING OF FLAMMABLE REFRIGERANT.
2. PROVIDE ADAPTER CURB AS REQUIRED TO FIT NEW UNIT ON (E) CURB. MECHANICAL CONTRACTOR TO FIELD VERIFY REQUIRED SIZE AND IF ADAPTER CURB IS REQUIRED. PROVIDE AC UNITS WITH THE FOLLOWING:
   - A. MTD. ON PRE–MANUFACTURED CURBS
   - B. PRE–MANUFACTURED HOLD DOWN CLAMPS.
   - C. CONDENSER COIL GUARD (PLENUMS INC. INC. 18 GA. EXTRUDED ALUMINUM STEEL GUARD.)
   - D. COMPRESSOR PHASE PROTECTOR
   - E. ECONOMIZER WITH EQUAL AREA INTAKE & RELIEF.
   - F. HINGED ACCESS PANEL @ THE FOLLOWING LOCATIONS:
     1). FILTER
     2). CONTROL BOX
     3). EVAPORATIVE FAN MTR.
     4). COMPRESSOR
   - G. REFER TO DETAIL 5/M8.3 FOR REQUIREMENTS FOR LABELING OF FLAMMABLE REFRIGERANT.

COMMON AREA FAN SCHEDULE

MARK	MAKE & MODEL	CONTROL	CFM	E.S.P.	RPM	SONES	ELECT.CHARACTERISTICS: ITEM	LOAD	VOLTS	ø	KEYNOTE REFERENCE	OPERATING WEIGHT	AREA SERVED	LOCATION
O

1.1 SHOP DRAWINGS & SUBMITTALS

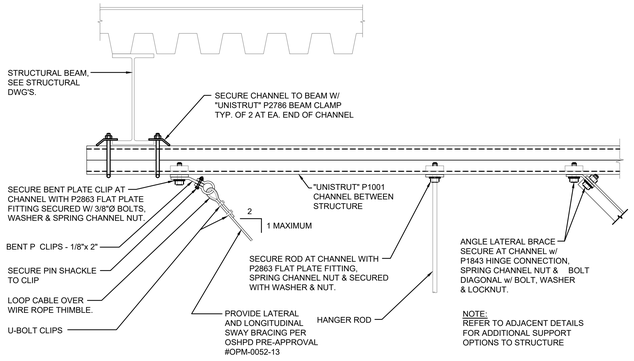
A. REFER TO GENERAL CONDITIONS OF THE CONTRACT.
B. SUBMITTALS UNDER THIS SECTION SHALL INCLUDE THE FOLLOWING ITEMS, AS APPLICABLE:

1. PACKAGED GAS / ELECTRIC HVAC UNITS
2. HEAT PUMPS / FAN COILS
3. FILTER GRILLE WITH MERV 13
4. FLEX DUCT.
5. RECTANGULAR AND ROUND DUCT.
6. DUCT LINING.
7. CEILING EXHAUST FANS.
8. CEILING EXHAUST DUCTING.
9. DIFFUSERS.
10. ERV – ENERGY RECOVERY UNIT
11. THERMOSTATS.
12. REFRIGERANT PIPE.
13. REFRIGERANT PIPE INSULATION.
14. COVERING AT EXPOSED REFRIGERANT PIPING.
15. IN–LINE OUTSIDE AIR FANS

REQUIRED ITEMS TO BE SUBMITTED WITH SUBMITTALS

NOT TO SCALE | 1

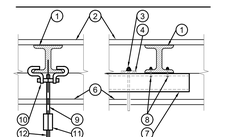
REFER TO ARCHITECTURAL / STRUCTURAL DRAWINGS FOR FURTHER ATTACHMENT DETAILS



NOTE:
REFER TO ADJACENT DETAILS FOR ADDITIONAL SUPPORT OPTIONS TO STRUCTURE

NUMBERED NOTES:

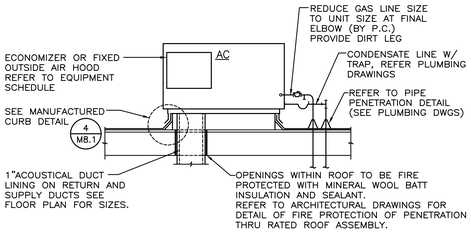
1. FLANGE BEAM
2. FINISH ROOF
3. HANGER ROD SECURE TO TOP OF TS w/NUTS AND WASHERS OVER STL. PLT.
4. 4x4x1/4" STL. PLT.
5. WOOD / METAL PURLIN
6. TOP CHORD OF ROOF TRUSS
7. 4x4x1/4" TS BETWEEN BEAMS. NOTCH OUT BOTTOM OF TS AS REQUIRED FOR INSTALLATION OF MOUNTING BOLTS AND HANGER RODS
8. SECURE TS TO BEAM w/1-1/2"Ø BOLTS, NUTS AND WASHERS.
9. THREAD EYE BOLT
10. BEAM CLAMP
11. ROD COUPLING
12. HANGER ROD



ATTACHMENT TO BEAM ATTACHMENT BETWEEN BEAMS

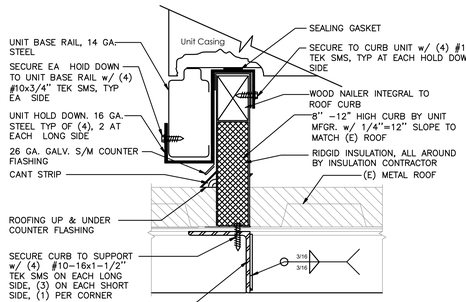
TYPICAL HANGER ROD / ANGLE / CABLE ATTACHMENT SUPPORT TO ROOF STRUCTURE MOUNTING DETAILS

NOT TO SCALE | 2



AC UNIT MOUNTING (DOWN DISCHARGE) DETAIL

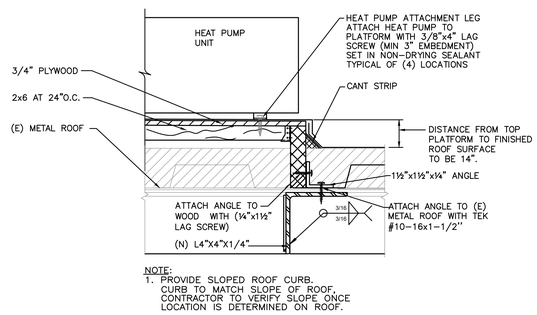
NOT TO SCALE | 3



NOTE:
1. ROOF CURB TO BE 18" TALL TO ACCOUNT FOR RIGID INSULATION ON TOP OF ROOF.
2. PROVIDE SLOPED ROOF CURB. CURB TO MATCH SLOPE OF ROOF. CONTRACTOR TO VERIFY SLOPE ONCE LOCATION IS DETERMINED ON ROOF.

AC UNIT CURB ATTACHMENT DETAIL

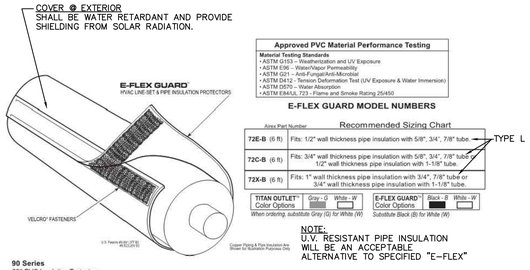
NOT TO SCALE | 4



NOTE:
1. PROVIDE SLOPED ROOF CURB. CURB TO MATCH SLOPE OF ROOF. CONTRACTOR TO VERIFY SLOPE ONCE LOCATION IS DETERMINED ON ROOF.

HEAT PUMP UNIT MOUNTING DETAIL

NOT TO SCALE | 5

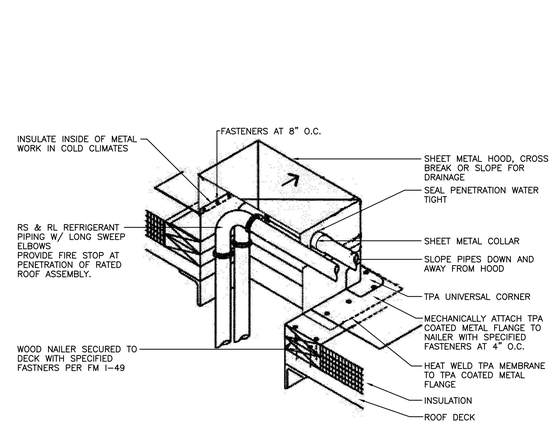


NOTE:
U.V. RESISTANT PIPE INSULATION WILL BE AN ACCEPTABLE ALTERNATIVE TO SPECIFIED "E–FLEX"

NOTE:
REFRIGERANT PIPE TO MEET THE FOLLOWING REQUIREMENTS:
A. TO BE ROUTED WITHOUT JOINTS AS MUCH AS POSSIBLE
B. UTILIZE LONG SWEEP ELBOWS
C. PROVIDE 3/4" PIPE INSULATION AT RESIDENTIAL UNITS
D. PROVIDE 1/2" PIPE INSULATION AT NON–RESIDENTIAL UNITS

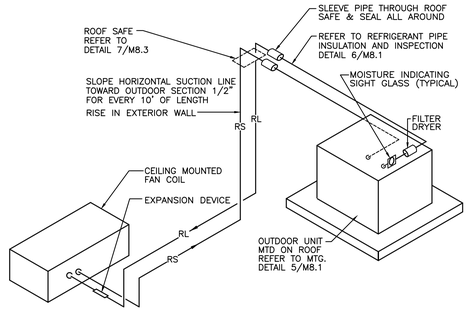
REFRIGERANT PIPE INSULATION & SPECIFICATION

NOT TO SCALE | 6



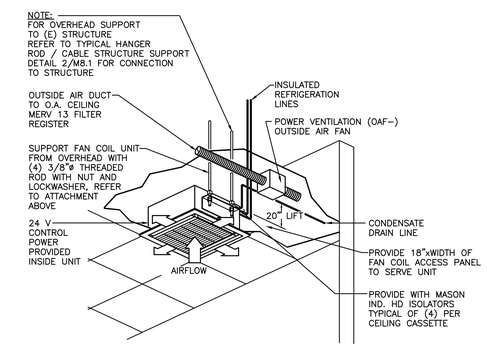
REFRIGERANT PIPE ROOF SAFE MOUNTING DETAIL

NOT TO SCALE | 7



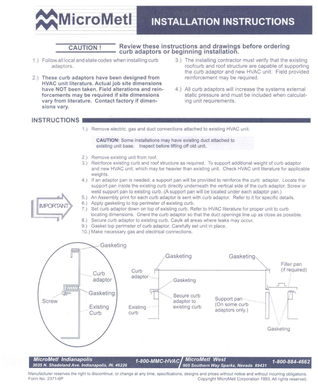
REFRIGERANT PIPING DIAGRAM

NOT TO SCALE | 8



CEILING CASSETTE FAN COIL MOUNTING DETAIL

NOT TO SCALE | 9

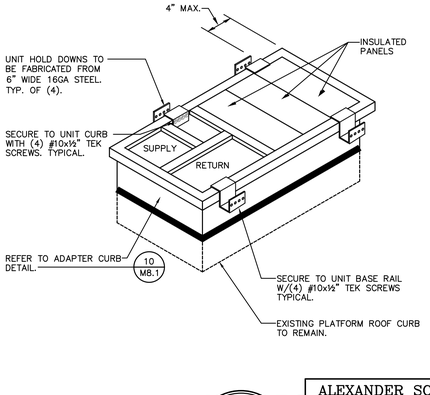


NOTE:
DETAIL PROVIDED FOR REFERENCE. MECHANICAL CONTRACTOR SHALL FIELD VERIFY DIMENSION OF (E) CURB & ORDER PROPER ADAPTER CURB FOR UNIT BEING INSTALLED.

3

AC UNIT ADAPTER CURB DETAIL

NOT TO SCALE | 10



AC UNIT HOLD DOWN PLACEMENT DETAIL

NOT TO SCALE | 11

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WMB Project No. 19-095

PUBLISH HISTORY:

Δ	DATE	PURPOSE
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1	10.29.25	COORDINATION
2	12.12.25	PLAN CHECK #1
3	02.12.26	PLAN CHECK #2
4	08.31.26	BID SET

MECHANICAL DETAILS

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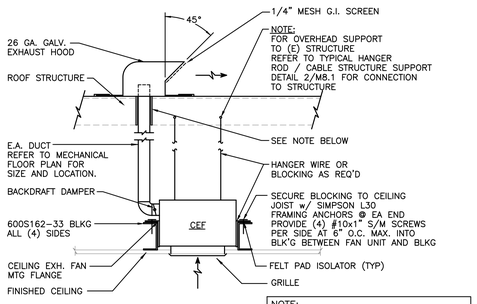
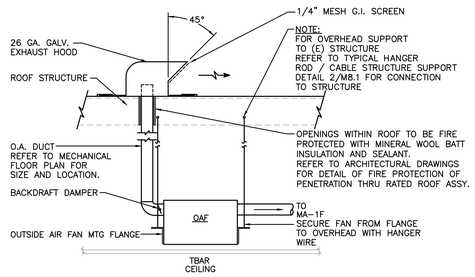
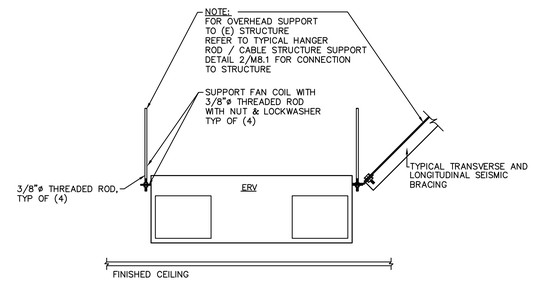


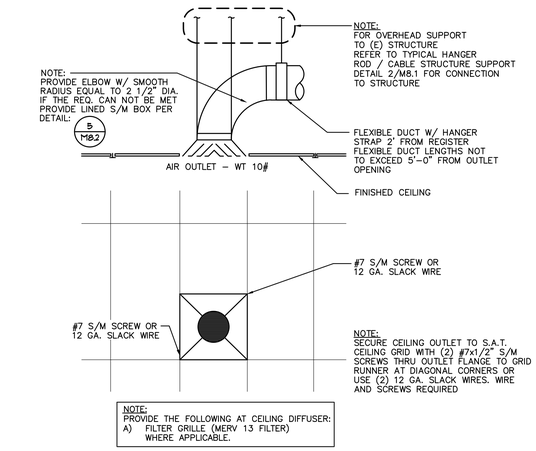
CEILING EXHAUST FAN MOUNTING DETAIL
NOT TO SCALE | 1



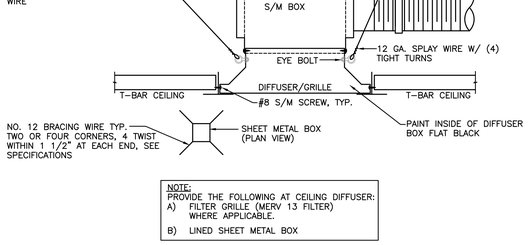
IN-LINE OUTSIDE AIR FAN (T-BAR) MOUNTING DETAIL
NOT TO SCALE | 2



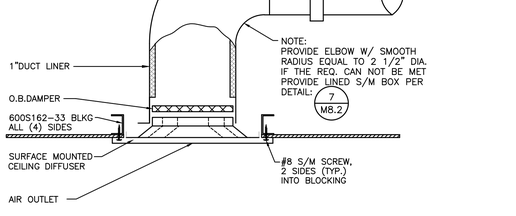
ERV UNIT MOUNTING DETAIL
NOT TO SCALE | 3



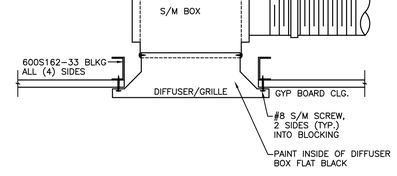
ROUND DUCT / ROUND NECK (T-BAR) DIFFUSER MOUNTING DETAIL
NOT TO SCALE | 4



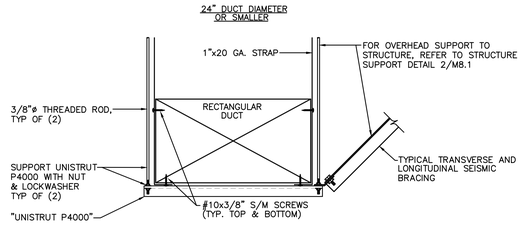
ROUND DUCT / SQUARE NECK (T-BAR) DIFFUSER MOUNTING DETAIL
NOT TO SCALE | 5



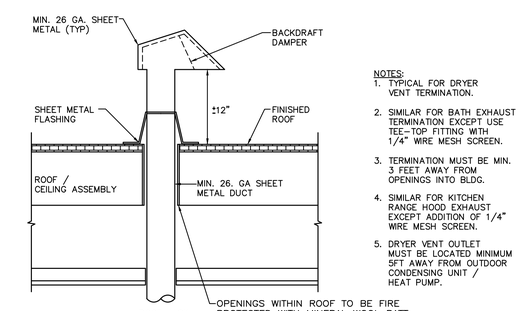
ROUND DUCT / ROUND NECK (HARD LID) DIFFUSER MOUNTING DETAIL
NOT TO SCALE | 6



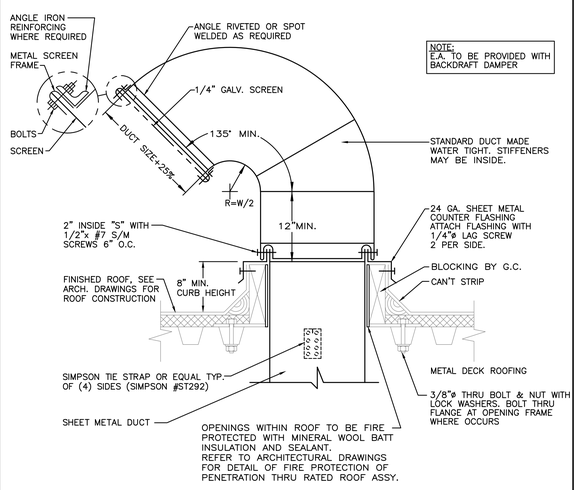
ROUND DUCT / SQUARE NECK (HARD LID) DIFFUSER MOUNTING DETAIL
NOT TO SCALE | 7



DUCT SUPPORT DETAIL
NOT TO SCALE | 8



VENT TERMINATION DETAIL
NOT TO SCALE | 9



ERV - GOOSENECK O.A. / E.A. TERMINATION MOUNTING DETAIL
NOT TO SCALE | 10

DETAIL NOT USED
NOT TO SCALE | 11

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Stockton, CA 95203

WMB Project No. 19-095

PUBLISH HISTORY:

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4	08.31.26	BID SET

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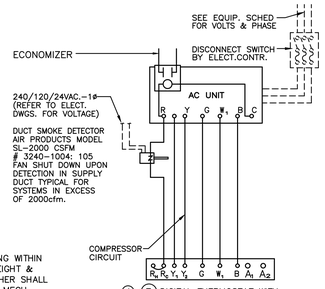


NOTE:

1. VERIFY VOLTAGE
2. ALL CONTROL WIRING WITHIN WALL TO PLATE HEIGHT & EXPOSED TO WEATHER SHALL BE IN CONDUIT BY MECH. CONTRACTOR.
3. CONDUIT FOR POWER WIRING SHOWN DOTTED BY ELECT. CONTRACTOR.
4. CONTROL DEVICES FURNISHED & INSTALLED BY MECH. CONTRACTOR

① (T) DIGITAL THERMOSTAT WITH SUBBASE SET AT 78 DEG.F COOLING AND 70 DEG.F HEATING

② THERMOSTAT TO BE MOUNTED WITH TOP AT 48" A.F.F.

③ PROVIDE CLEAR EXTERNAL LOCKING COVER

PACKAGED AC UNIT CONTROL DIAGRAM

NOT TO SCALE

1

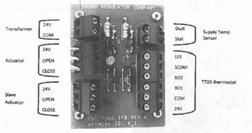
Engineering Specifications

The interface board for the T720 thermostat is provided to aid in the installation of the thermostat and damper assembly. With this option, the supply temperature sensor is preinstalled in the damper and the connections are prewired to the primary actuator and sensor at the factory. Field connections consist of the transformer and thermostat wiring. For convenience, an extra terminal block is provided for installation to a slave damper.

Sequence of Operation:

The supply temperature sensor (AKA 'duct stat') determines if warm or cold air is available in the supply. This information is shown on the thermostat by displaying 'Heating mode' or 'Cooling mode'. As the thermostat works to control the space temperature to the set-point, the damper will open, close, or modulate as needed. The Interface Board features a GREEN and a RED LED. When lit,

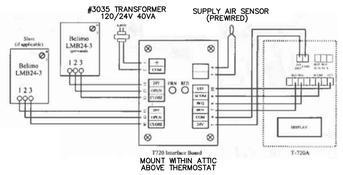
- The GREEN LED indicates the damper is opening
- The RED LED indicates the damper is closing
- When BOTH are lit, the thermostat is satisfied and the damper is stalled



TYPICAL FOR: ZD–8.1, ZD–8.2, ZD–8.3, ZD–8.4, ZD–8.5, ZD–8.6, ZD–8.7, ZD–8.8 & ZD–10.1

WIRING SCHEMATICS

NOTE: Young Regulator recommends the use of 18 gauge thermostat wire



ZONE DAMPER SEQUENCE OF OPERARTIONS and WIRING DIAGRAM

NOT TO SCALE

2

③OPERATION STATUS (External output1)

Function setting	Mode	External output 1	Output signal	Command
60-00, 05	0, 6	CNB01 (PIN 1-2)	0 V ⟶ 12 V	Operation
			12 V ⟶ 0 V	Stop

The output for CNB01 (1-2) is ON when the indoor unit is operating.
The output is off when the unit is stopped.

③INDOOR UNIT FAN OPERATION STATUS (External output3)

Function setting	Mode	External output 3	Output signal	Command
60-00, 01, 05, 06	0, 1, 5, 6	CNB01 (PIN 1-4)	0 V ⟶ 12 V	Fan run
			12 V ⟶ 0 V	Fan stop

The output for CNB01 (1-4) is ON when the indoor unit fan is operating.
The output is off when the fan is stopped or during cold air prevention.
The output for CNB01 (1-4) is OFF during thermostat OFF when DRY mode operation.

Ex) Used for ider lock energize for exhaust fan

■ INDOOR UNIT EXTERNAL OUTPUT FUNCTION

Item	Dry contact / Apply voltage	Function				Specifications			
		Output 1	Output 2	Output 3	Output 4	Terminal	Terminal output voltage	Wire size	Maximum length of cable
Indoor unit output function specification	Dry contact	●	-	-	-	CNB01 (PIN1-2)	DC 12 [V]	AWG22 Twist	82 ft. (25 m)
		-	●	-	-	CNB01 (PIN1-3)			
		-	-	●	-	CNB01 (PIN1-4)			
		-	-	-	●*	CNB01 (PIN1-5)			

1-2-2. EXTERNAL OUTPUT

- A twisted pair cable (22AWG) should be used. Maximum length of cable is 82 ft. (25 m).
- Use an external input and output cable with appropriate external dimension, depending on the number of cables to be installed.
- Output voltage: Hi DC 12 Vs 2 V, Lo 0 V.
- Permissible current: 50 mA.
- If function setting "60" is set to "00" shown below. Refer to 1-2-3. for other function setting.

1-2-5. OPTIONAL PARTS

Usage	Name and shapes	Q'ty	Models
For output port	EXTERNAL CONNECT KIT	1	UTY-XWZXZC

NOTE:
PROVIDE WITH "FUNCTIONAL DEVICE" MODEL RIBU1C 12V DC VOLT POWER RELAY (12V DC).
FUJITSU DISTRIBUTOR TO PROVIDE WITH MOLEX PLUG (PLUG SPEC. VARIES WITH FAN COIL).

Timothy W. Young, P.E.
Northwest Sales Engineer
FUJITSU
Fujitsu General America
Cell: 201-247-3361
fujitsugeneral.com

From: John Daley [mailto:rjazroupllc@gmail.com]
Sent: Monday, January 22, 2018 4:32 AM
To: Tim Young <tyoung@fujitsugeneral.com>
Subject: Fwd: Brunzville - fan coil outside air fan interlock

See you at show to discuss.

Regards, John Daley

http://rjazroupllc.com

(510) 750-2552

3

FAN COIL UNIT – OUTSIDE AIR (OAF–) CONTROLS

NOT TO SCALE

3

WMB ARCHITECTS
5757 Pacific Avenue
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Stockton, CA 95207

2000 L Street
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T 209.944.9110
F 209.944.5711
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Port of Stockton
Building 315 Alteration - Phase (2)
315 Fyffe Ave.
Stockton, CA 95203

WMB Project No. 19-095

PUBLISH HISTORY:

△	DATE	PURPOSE
	10.08.25	INITIAL SUBMITTAL
1	10.29.25	COORDINATION
2	12.12.25	PLAN CHECK #1
3	02.12.26	PLAN CHECK #2
4	08.31.26	BID SET

POTTORFF® model **FSD-142-OP**
1½ hour • **UL class 2** — combination fire smoke damper actuator in the airstream — out-of-partition

Application

The FSD-142-OP combination fire smoke damper employs triple-V blades for point-of-origin control of fire and smoke in static and dynamic smoke management systems. These specialty dampers are approved for installation with the closed plane of the blades up to 14¼" (368) outside the fire rated partition and come standard with the actuator in the airstream allowing for direct service access from the face of the damper through the HVAC grille. The FSD-142-OP is qualified to 2,000 ft/min (10.2 m/s) and 4 in.wg. (1.0 kPa) and may be installed in vertical walls and partitions, or horizontally in floors or assemblies with fire resistance ratings up to 2 hours.

Standard Construction

Frame: 5" × 1" (127 × 25) galvanized steel hat channel with interlocking corner gusset. Equivalent to 13 gauge (2.4) channel frame. Low profile head and sill are used on sizes less than 13" (330) high.

Blades: 6" x 16 gauge (152 x 1.5) galvanized steel — triple-V.

Sleeve: 20 gauge (1.0) galvanized steel with 1" (25) flange and factory installed thermal insulation on four sides.

Axles: ½" (13) diameter plated steel hex.

Linkage: Concealed in frame.

Bearings: Stainless steel oilite, sleeve-type.

Seals: Silicone blade edge seals and flexible metal jamb seals.

Actuator: 120 VAC, power-open, spring-close, internal mount.

Fire Closure Device: HS-10 (electric actuators)
PFV (pneumatic actuators)

Fire Closure Temperature: 165°F (75°C).

Minimum Size: 10" × 6" (254 × 152)

Maximum Size: 36" × 48" (914 × 1219)

Ratings

UL 555 Fire Resistance Rating: 1½ hour (vertical and horizontal)

UL 555S Leakage Class: 2 [20 cfm/sq.ft. @ 4 in.wg.] [(0.10 m³/s/m² @ 1.0 kPa)]

Maximum Dynamic Closure Velocity: 2,000 fpm (10.2 m/s)

Maximum UL555S Rated Pressure: 4 in.wg. (1.0 kPa)

Maximum Temperature: 350°F (177°C)

Listings

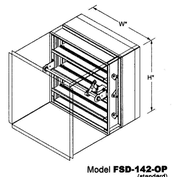
UL 555 and 555S listing: R11787

CSFM listing: 3225-0368:110 and 3230-0368:111

New York City MEA listing: 295-98-E

Meets NFPA Standards: 90A, 92A, 92B and 101

Meets Building Code Standards: IBC, NBC, NFPA, SBC and UBC



Model **FSD-142-OP** (standard)

*Standard sleeve O.D. including thermal blanket wrap, is approximately 3/8" (9) over nominal duct size. Standard sleeve I.D. is approximately nominal duct size.

NOTE: The opening for the damper assembly in the fire wall must be sized appropriately. If not, serious damage to the thermal blanket wrap could occur and this will nullify the U.L. rating. Contact the factory if necessary for additional information.

Information is subject to change without notice or obligation. **NOTE: Dimensions in parentheses ( ) are millimeters.**

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NOTE:
PROVIDE SMOKE DETECTOR THAT IS CSFM LISTED.
CONTROL TO BE PROVIDED BY FIRE ALARM CONSULTANT.

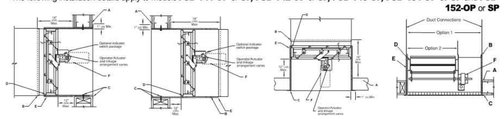
COMBINATION WALL FIRE / SMOKE DAMPER DETAIL (OUT OF PARTITION) AND INSTALLATION INSTRUCTIONS

NOT TO SCALE

4

POTTORFF® **out-of-partition and side panel**
1½ hour — combination fire smoke dampers installation instructions

The following installation details apply to models **FSD-141-OP** or **SP, FSD-142-OP** or **SP, FSD-143-OP, FSD-151-OP or SP** and **FSD-152-OP** or **SP**



Illustrations show triple-V bladed (140/170 type), steel airfoil blade (150 type) similar.

Vertical Mount (Side View)

Notes:
- All dimensions shown in ( ) are in millimeters.
- Vertical illustration depicts damper installed vertical right side up. Damper may also be installed upside down.
- Above detail applicable for concrete partitions also.

Horizontal Mount (Side View)

- Horizontal illustration depicts damper installed from the top down with the actuator above the floor line. Damper may also be installed from the bottom up with the actuator below the floor line.

Vertical Mount SP (Top View)

- Illustration shows side panel with motor on right side. The unit can also be installed with the motor/side panel on the left side.
- Above detail applicable for concrete partitions also.

A. Typical 2 hour steel stud vertical and concrete horizontal fire partition shown. See steel Stud Framing for Fire Dampers in Drywall and/or Cavity Shaftwall Partitions Supplemental Installation Instructions for further details. The opening shall be a minimum of ½" (6) larger than the overall damper and sleeve assembly size. Damper must be installed with leading edge of the damper frame no more than 12" (305) outside the partition.

B. For rigid type duct connections, the sleeve shall be a minimum of 16 gauge (1.5) for dampers up to 36" wide by 24" high (914 x 610) and 14 gauge (1.9) for larger units. When lighter gauge sleeves are used, one or more of commonly used breakaway style connections are required. Refer to Sleeve Termination Supplemental Installation Instructions for further details. In no case will the sleeve gauge be less than the duct gauge to which it is connected. Damper sleeve shall not extend more than 16" (406) beyond the rated partition on the actuator side.

C. Mounting flange shall be a minimum of 1" x 20 gauge . The flange shall be attached to the sleeve with 3/16" (4.8) diameter steel rivets. Quick-Lock joint, welds, No.10 (M5) bolts or sheet metal screws at 8" (203) o.c. maximum. The damper sleeve shall be fastened directly to the partition with 3/16" (4.8) diameter steel rivets, or No.10 (M5) sheet metal screws at 8" (203) o.c. maximum. A minimum of two connections per side, top and bottom. A minimum 1-1/2" x 1½" x 20 gauge (38 x 19 x 1) mounting angle may be used on the opposite side of the partition from the mounting flange in lieu of fastening the sleeve directly to the partition. When using mounting angles they shall be attached to the sleeve under the same guideline as the mounting flange.

D. When fastening the damper to the sleeve, the damper shall be fastened with 3/16" (4.8) diameter steel rivets, Quick-Lock Joints, welds, No. 10 (M5) bolts or sheet metal screws at 12" (305) o.c. maximum. A minimum of two connections per side, top and bottom.

E. A factory installed minimum of one layer of thermal blanket wrap shall encase the exterior of the damper sleeve and shall span the entire length of the sleeve from the outer most edge of the damper frame to the mounting flange. Care should be taken during handling & installation to prevent tearing or bending of the material. To aide in this the thermal blanket may be fastened to the sleeve with adhesive.

F. Fire/Leakage rated dampers and qualified operators are tested together by Underwriters Laboratories and are factory installed to qualify for standard damper/operator warranties. Damper operator/actuator must be tested prior to system start-up to ensure proper operation. Before applying power to the operator/actuator, the power must be verified.

Special Notes for Dampers Installed in Wood Stud Construction:

1. The opening must be made larger to permit the attachment of gypsum wallboard to the sides and top of the outside of the damper sleeve. The wallboard must be a minimum of ½" thick and must be UL rated for use in fire protective construction. The bottom of the damper requires no wallboard. Therefore, if ½" thick wallboard is used, the opening will have to be 1" wider and ½" higher than normal.
2. The wallboard must be attached to outside of the damper sleeve with a minimum of 2 drywall screws on each of the sides and on the top. The screws on the sides should be located approx. 1-½" from the back edge of the sleeve and approx. 1-½" down from the top and 1-½" up from the bottom of the sleeve. The screws on the top should be located approx. 1-½" from the back edge of the sleeve and approx. 1-½" in from each side of the sleeve. The screws should be a #6 or larger and must be ½" longer than the thickness of the drywall attached to the sleeve.
3. In lieu of the sleeve to partition attachment details above, the damper/sleeve must be attached to the opening with min. #10 screws (drywall, wood or equivalent), 3" long. The screws must be at a max. of 6" o.c. and must be located such that they penetrate the wood framing members around the opening.
4. A steel grille must be installed on the flange of the damper sleeve. The grille must be a min. of 24 ga. thick and have a min. 1" (25) tall flange that overlaps the damper flange.
   For use in Dynamic or Static Systems 1-½ Hour Rated for Vertical or Horizontal Installation
   Galvanized or Stainless Steel.

Notes:

1. The annular space between damper sleeve and wall opening must not be filled with firestop materials such as fill, void, or cavity materials. However, if optional sealing between the retaining angle (or flange) leg and the surface of the partition, wall, or floor and/or between the retaining angle leg and the surface of the damper sleeve is required, any of the following sealants may be used:
   Dow-Corning 700 or 732
   GE RTV 108 or SCS 1201 RTV
   These sealants must be applied such that they do not intrude into the annular space between the outside surface of the damper sleeve and the opening of the partition, wall or floor into which the damper/sleeve is being installed.
2. In order to run the necessary electrical wiring or pneumatic piping/tubing to facilitate supplying power to the actuator it will be necessary to cut a hole in the damper sleeve. Care should be taken such that the hole is as small as possible but will still permit the necessary electrical wiring or pneumatic piping/tubing to connect through and/or attach to the sleeve. As is always the case, all electrical and pneumatic connections should be done in accordance with the local code requirements.

CLASSIFIED (UL) SEE DETAILS ON UL CLASSIFIED CLASSIFICATION MARKING ON ENCLOSED PRODUCT (UL) C

Underwriter's Laboratories file #R11767. City of New York listing # MEA 295-98-E
The product is also listed by CSFM file # 3225-0368:110 and 3230-0368:111 and conforms to NFPA 90-A and NFPA 92-A.
Information is subject to change without notice or obligation. **NOTE:** Dimensions in parentheses ( ) are millimeters.

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Fire Smoke Dampers **SFSDOPSP** July 2006

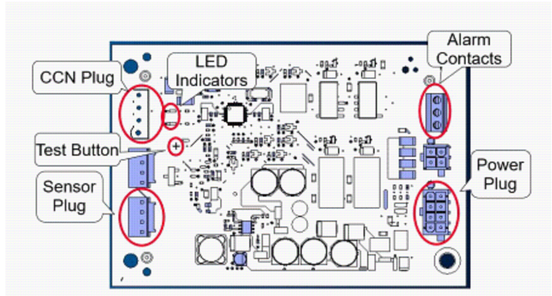

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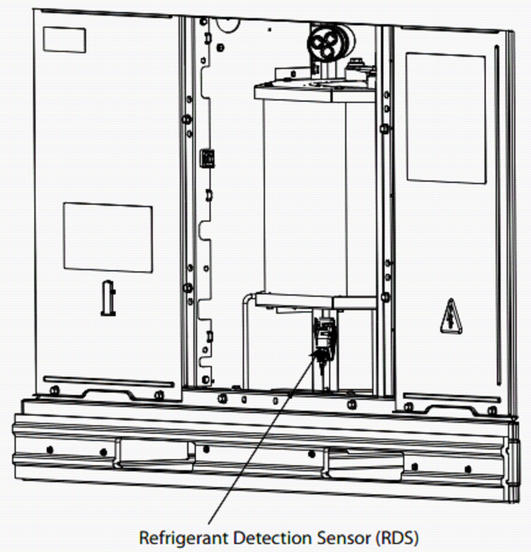
Fig. 11 – Dissipation Board



A240156

Fig. 13 – Refrigerant Detection Sensor 36-60 Sizes

NOTE:
STICKER TO BE LOCATED AT ALL SERVICE PORTS AND OTHER LOCATIONS WHERE SERVICE INVOLVING COMPONENTS CONTAINING REFRIGERANT IS PERFORMED BY PRODUCT LIST PER 1104.6.2.1, 2022 C.M.C.

R-454B REFRIGERANT LABEL AND REFRIGERANT DETECTION / BOARD

NOT TO SCALE

5

NOT FOR CONSTRUCTION

ALEXANDER SCHEFLO and ASSOCIATES, Inc.
Mechanical Engineers (209) 948-9761
2926 Pacific Ave. Stockton, Ca. 95204

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MECHANICAL DETAILS

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HEATING AND AIR CONDITIONING SPECIFICATIONS

PART 1 GENERAL

1.01 GENERAL CONDITIONS:

A. THE CONTRACTOR SHALL FURNISH ALL PLANT, LABOR, EQUIPMENT, AND SHALL PERFORM ALL OPERATIONS IN CONNECTION WITH THE AIR CONDITIONING SYSTEM(S) AS OUTLINED IN THE DRAWINGS AND IN STRICT ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT. ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH CAN REASONABLY BE TAKEN OR INFERRED AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE SYSTEM DESCRIBED OR SHOWN SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE WORK SHALL BE COMPLETE AND READY FOR SERVICE AS SHOWN AND/OR SPECIFIED, AND BE SATISFACTORY TO THE ARCHITECT.

B. REFER TO ARCHITECTURAL SPECIFICATIONS FOR CORRELATIONS AND GENERAL REQUIREMENTS.

1.02 WORK INCLUDED:

A. THE SYSTEMS TO BE INSTALLED CONSIST ESSENTIALLY OF THE FOLLOWING:

1. ROOF TOP GAS/ELECTRIC SYSTEM
2. HEAT PUMP / FAN COIL SPLIT SYSTEM
3. EXHAUST FANS AND DUCTWORK.
4. SUPPLY AND RETURN DUCTWORK, AND CEILING OUTLETS.
5. REFRIGERANT PIPING AND INSULATION.
6. ZONE DAMPER SYSTEM
7. ERV (ENERGY RECOVERY UNIT)
8. TESTING AND ADJUSTING OF THE COMPLETE SYSTEM.
9. OTHER ITEMS AS MAY BE SPECIFIED OR SHOWN ON THE DRAWINGS.

1.03 WORK NOT INCLUDED:

A. THE FOLLOWING IS NOT INCLUDED IN THIS PARTICULAR WORK:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE VOLTAGE WIRING, AND ALL LINE VOLTAGE CONDUIT, DISCONNECTS, MANUAL STARTERS, AND CONNECT UP ALL MOTORS COMPLETE. AIR CONDITIONING CONTRACTOR TO PROVIDE WIRING DIAGRAM AS REQUESTED.

1.04 WORKMANSHIP:

A. WHERE OTHER INSTRUCTIONS ARE NOT GIVEN, EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND THE BEST STANDARD PRACTICE FOR THIS TYPE OF WORK.

1.05 RULES, REGULATIONS, AND CODES:

A. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES, CODES, AND REGULATIONS OF THE FOLLOWING:

1. NATIONAL FIRE PROTECTION ASSOCIATION.
2. STATE FIRE MARSHAL.
3. PART – 5, T24 CALIFORNIA CODE OF REGULATIONS.
4. STATE HEALTH DEPARTMENT.
5. STATE INDUSTRIAL ACCIDENT COMMISSION'S SAFETY ORDERS.
6. RULES OF LOCAL UTILITY.
7. CALIFORNIA MECHANICAL CODE.
8. CALIFORNIA BUILDING CODE.
9. CALIFORNIA PLUMBING CODE.
10. CALIFORNIA ELECTRIC CODE.

B. RULING AND INTERPRETATIONS OF THE ENFORCING AGENCY WILL BE CONSIDERED PART OF THE REGULATIONS.

C. NOTHING IN THESE SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE, AND EXPENSE IN COMPLIANCE WITH THE ABOVE SHALL BE BORNE BY THE CONTRACTOR.

D. WHENEVER THE SPECIFICATIONS AND DRAWINGS REQUIRE HIGHER STANDARDS OR LARGER SIZES THAN THOSE REQUIRED BY THE ORDINANCES AND STATUTES, THE SPECIFICATIONS AND DRAWINGS SHALL TAKE PRIORITY OVER THE SPECIFIC ORDINANCES AND STATUTES.

1.06 SITE EXAMINATION AND CONDITIONS:

A. THIS CONTRACTOR SHALL EXAMINE THE SITE, VERIFY DIMENSIONS AND LOCATIONS AGAINST THE DRAWINGS AND INFORM HIMSELF OF ALL CONDITIONS UNDER WHICH WORK IS TO BE DONE BEFORE SUBMITTING HIS PROPOSAL. NO ALLOWANCE WILL BE MADE IN HIS BEHALF FOR EXTRA EXPENSE ON ACCOUNT OF ERROR.

1.07 AS BUILT DRAWINGS:

A. SUPPLEMENTING THE REQUIREMENTS OF THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL SUPPLEMENTARY GENERAL CONDITIONS, AS–BUILT DRAWINGS SHALL SHOW INVERT ELEVATIONS OF SANITARY SEWERS, RAIN WATER LEADERS AND STORM SEWERS OF CRITICAL LOCATIONS, LOCATIONS OF SHUT–OFF VALVES AND STUB–OUTS FOR FUTURE, AND ALL CHANGES MADE DURING THE COURSE OF THE WORK. FURNISH REPRODUCIBLE DRAWINGS WHEN WORK IS COMPLETE.

B. THE GRADE OR QUALITY OF MATERIALS DESIRED IS INDICATED BY THE TRADE NAMES OR CATALOG NUMBERS STATED HEREIN.

C. DIMENSIONS, SIZES, AND CAPACITIES SHOWN ARE A MINIMUM AND SHALL NOT BE CHANGED WITHOUT PERMISSION OF THE ARCHITECT.

1.08 MATERIAL LIST AND SUBSTITUTIONS:

A. PRIOR TO COMMENCEMENT OF WORK, AND WITHIN 35 DAYS AFTER SIGNING OF THE CONTRACT BY THE OWNER AND GENERAL CONTRACTOR, THIS CONTRACTOR SHALL SUBMIT IN QUINTUPLE TO THE ARCHITECT FOR APPROVAL A COMPLETE LIST OF EQUIPMENT AND MATERIALS TO BE FURNISHED, INCLUDING ALL SUBSTITUTIONS. PARTIAL OR INCOMPLETE LISTS OF MATERIALS WILL NOT BE CONSIDERED. NO SUBSTITUTIONS WILL BE CONSIDERED THEREAFTER. ONLY ONE (1) REQUEST FOR SUBSTITUTION WILL BE CONSIDERED ON EACH ITEM OF MATERIAL OR EQUIPMENT.

B. IF THE CONTRACTOR DESIRES TO MAKE A SUBSTITUTION, HE SHALL SUBMIT COMPLETE INFORMATION OR CATALOG DATA TO SHOW THE QUALITY OF THE EQUIPMENT OR MATERIAL OFFERED TO THAT SPECIFIED. NO SUBSTITUTION WILL BE ALLOWED UNLESS REQUESTED AND APPROVED IN WRITING. MATERIALS OF EQUAL MERIT AND APPEARANCE IN THE OPINION OF THE ARCHITECT WILL BE APPROVED FOR USE. ARCHITECT RESERVES THE RIGHT TO REQUIRE ORIGINALLY SPECIFIED ITEM.

C. INSTALLATION OF APPROVED SUBSTITUTION IS THE CONTRACTOR'S RESPONSIBILITY. ANY CHANGES REQUIRED FOR INSTALLATION OF APPROVED SUBSTITUTED EQUIPMENT MUST BE MADE WITHOUT ADDITIONAL COST.

D. SUBMIT TO ARCHITECT FOR APPROVAL, WITHIN A REASONABLE TIME AFTER AWARD OF CONTACT AND IN AMPLE TIME TO AVOID DELAY OF CONSTRUCTION, SHOP DRAWINGS OR SUBMITTALS ON ALL ITEMS OF EQUIPMENT AND MATERIALS COVERED IN LIST MENTIONED ABOVE. SHOP DRAWINGS SHALL BE SUBMITTED IN FIVE (5) COPIES AND IN A COMPLETE PACKAGE. PARTIAL SUBMITTALS WILL NOT BE CONSIDERED.

1.09 FEES, PERMITS, AND UTILITY SERVICES: THIS CONTRACTOR SHALL ARRANGE TO OBTAIN AND TO PAY FOR ALL PERMITS AND SERVICE CHARGES REQUIRED IN THE INSTALLATION OF HIS WORK, ARRANGE FOR REQUIRED INSPECTIONS, AND SECURE APPROVALS FROM AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL ARRANGE FOR UTILITY CONNECTIONS AND PAY CHARGES INCURRED, INCLUDING EXCESS SERVICE CHARGES, IF ANY.

1.10 GUARANTEE: AFTER COMPLETION OF THE INSTALLATION OF EQUIPMENT HEREIN SPECIFIED, THE CONTRACTOR SHALL GUARANTEE SAME AGAINST DEFECTS OF WORKMANSHIP OR MATERIAL FOR A PERIOD OF ONE (1) YEAR. IF, WITHIN THE SPECIFIED PERIOD FROM THE DATE OF ACCEPTANCE ANY OF THE SYSTEM IS PROVEN TO BE DEFECTIVE IN WORKMANSHIP AND/OR MATERIAL, IT WILL BE ADJUSTED, REPAIRED, OR REPLACED FREE OF CHARGE BY THIS CONTRACTOR.

1.11 ACCESSIBILITY: CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUFFICIENCY OF SIZE AND THICKNESS OF PARTITIONS FOR ADEQUATE INSTALLATION OF HIS WORK. ANY EQUIPMENT REQUIRING ACCESS FOR OPERATION OR SERVICE SHALL BE MADE ACCESSIBLE BY THE USE OF ACCESS DOORS AS REQUIRED.

PART 2 – PRODUCTS

2.01 DUCTWORK

A. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE PRODUCTION OF NOT MORE THAN 50.

B. ALL SHEET METAL DUCTWORK SHALL BE MADE OF COMMERCIAL GRADE GALVANIZED STEEL.

C. BROKEN PIECES IN COATING MADE IN FORMING SHALL BE COMPLETELY SOLDERED OVER. WEIGHTS OF SHEETS SHALL NOT BE LESS THAN THE FOLLOWING:

SIZE OF DUCTS	US GAUGE GALV IRON
0" TO 12"	26
13" TO 30"	24
31" TO 54"	22
55" AND LARGER	20

2.02 DUCTWORK INSULATION:

DUCTWORK INSULATION

A. INSULATION APPLIED TO EXTERIOR SURFACE OF THE DUCTS LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE–DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED.

B. ALL INSULATION SHALL BE APPLIED BY THOSE WHO ARE LICENSED CONTRACTORS IN THE INSULATION INDUSTRY, WHO EMPLOY ONLY SKILLED PERSONNEL.

C. ALL DIFFUSER BOOTS, DROPS, AND CONCEALED SUPPLY AND RETURN DUCTS, UNLESS INDICATED OTHERWISE, SHALL BE WRAPPED WITH A MINIMUM INSTALLED 'R' VALUE OF 8.0, ADJUST THICKNESS AS REQUIRED. THE INSULATION SHALL BE MANVILLE, FIBERGLAS, OR EQUAL TO MANVILLE MICROLITE FIBERGLASS FOIL FACED DUCT INSULATION LAPPED 4" AND HELD IN PLACE BY COPPER CLAD WIRE TIED ON 12" CENTERS OF 1/2" LONG STAPLES ON 2" CENTERS. BEFORE WRAPPING INSULATION AROUND DUCTS, CONTRACTOR SHALL APPLY ADHESIVE ON ALL FOUR SIDES OF DUCTS TO PREVENT SAGGING OF INSULATION.

D. INTERNAL DUCT LINING SHALL BE PROVIDED ON ALL EXPOSED SUPPLY AND RETURN DUCTS AND FOR A MINIMUM DISTANCE OF 10'–0" OF THE PACKAGED GAS/ELECTRIC UNIT'S INLET, DISCHARGE, AND ELSEWHERE SHOWN. THE INSTALLED 'R' VALUE SHALL BE A MINIMUM 8.0 WHEN LOCATED EXTERIOR AND IN NON–CONDITIONED SPACE AND 4.2 AT INTERIOR AREAS, ADJUST THICKNESS AS REQUIRE. IT SHALL BE MANVILLE, FIBERGLAS, OR EQUAL TO MANVILLE MICROCOUSTIC DUCT LINER WITH NFPA FILM FACING. ADJUST DUCT SIZES TO ACCOMMODATE LINER AND TO GIVE NEW DIMENSIONS SHOWN ON DRAWINGS. CEMENT LINING IN PLACE WITH FOSTER'S NO. 85–20 NON–FLAMMABLE ADHESIVE AND FASTEN TO SHEET METAL WITH TYPE B STICK–KLIPS.

E. POINT UP EXPOSED EDGES AND LEADING EDGES ALL CROSS POINTS OF THE LINER WITH BENJAMIN FOSTER'S 30–36 SEAL–FAS ADHESIVE.

F. DUCT SEAMS SHALL BE TAPED AS HEREINAFTER SPECIFIED.

G. ALL INSULATION SHALL BE UL APPROVED AND BEAR UL STAMP ON THE INSULATION MATERIAL AT 5'–0" INTERVALS.

2.03 INSULATED FLEXIBLE DUCT:

INSULATED FLEXIBLE DUCT

A. FLEXIBLE DUCT MAY BE USED ON SUPPLY & RETURN DUCTS 18"ø & SMALLER MAY BE USED ON LAST 5'–0" OF ANY NEW DUCTWORK AND SHALL BE THERMAFLEX MODEL MK–E CONSISTING OFAN INNER CORE, INSULATION AND AN OUTER MOISTURE BARRIER. THE INNER CORE SHALL BE CONSTRUCTED OF A CHLORINATED POLYETHYLENE (CPE) BONDED TO THE COATED WIRE HELIX FOR MAXIMUM STRENGTH AND DURABILITY.

AN INSULATING BLANKET WOVEN OF FIBERGLASS SHALL ENCASE THE INNER CORE AND SHALL BE SHEATHED WITH AN OUTER VAPOR BARRIER OF METALLIZED POLYESTER FILM. THE VAPOR BARRIER SHALL BE .05 PERM PER ASTM E96, PROCEDURE A. THE FLEXIBLE DUCT SHALL BE RATED FOR A MAXIMUM WORKING VELOCITY OF 5500 FPM AND SHALL BE CERTIFIED BY THE UNDERWRITERS LABORATORIES UNDER THEIR UL 181 STANDARDS AS CLASS 1 DUCT, AND BEAR UL STAMP.
FLEXIBLE DUCT USED ON SUPPLY & RETURN DUCTS SHALL BE NO MORE THAN 5'–0" MAXIMUM LENGTH.

B. FLEXIBLE DUCTS SHALL BE SUPPORTED AT 4'–0" O.C. WITH 3" WIDE 28 GAUGE STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER. COLLARS SHALL HAVE HEMMED EDGES TO PREVENT CUTTING OF FLEXIBLE DUCT. INSTALLATION SHALL MINIMIZE SHARP RADIUS TURNS OR OFFSETS.

C. DUCT MATERIAL SHALL HAVE A MINIMUM 'R' VALUE OF 8.

D. FLEXIBLE DUCTS MAY BE USED TO CROSS SEISMIC JOINTS WITHOUT OFFSETS.

E. ALL MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME–SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE–DEVELOPED RATING OF NOT MORE THAN 50.

F. DUCT LEAKAGE SHALL NOT BE MORE THAN 6% OF TOTAL AIR FLOW AND SHALL BE VERIFIED.

2.04 BALANCING DAMPERS

A. BALANCING DAMPERS SHALL BE FURNISHED AND INSTALLED AT LOCATIONS INDICATED ON THE DRAWINGS.

B. DAMPERS SHALL HAVE LOCKING AND INDICATING QUADRANT PARKER–KALON COMPANY'S, ELGIN, OR EQUAL. DAMPERS INSTALLED IN INACCESSIBLE LOCATIONS SHALL HAVE DAMPER RODS EXTENDED AND TERMINATED WITH CEILING, WITH A YOUNG COMPANY'S, ELGIN, OR EQUAL, ADJUSTABLE COVER CONCEALED DAMPER REGULATOR.

C. DAMPERS IN SQUARE OR RECTANGULAR DUCTS NOT SHOWN AS SPLITTER OR BUTTERFLY DAMPERS SHALL BE OF THE MULTI–LOUVER TYPE ARRANGED FOR OPPOSED BLADE OPERATION AND SHALL BE CONTROLAIR, KRUEGER, OR EQUAL TO CONTROLAIR OPP–MD. BUTTERFLY AND SPLITTER TYPE DAMPER BLADES SHALL BE OF U.S. 16 GAUGE GALVANIZED STEEL, MINIMUM, AND SHALL HAVE A MINIMUM SHAFT SIZE OF 3/8". DAMPERS IN ROUND DUCTS SHALL BE SINGLE BLADE TYPE, CONTROL AIR OR EQUAL, WITH EXTENDED SHAFT AS REQUIRED.

D. MARK DUCTS TO INDICATE PERMANENT DAMPER POSITION AFTER THE SYSTEM HAS BEEN TESTED AND BALANCED.

2.05 FLEXIBLE CONNECTIONS

A. FLEXIBLE DUCT MAY BE USED ON SUPPLY & RETURN DUCTS 18"ø & SMALLER MAY BE USED ON LAST 5'–0" OF ANY NEW DUCTWORK AND SHALL BE THERMAFLEX MODEL MK–E CONSISTING OFAN INNER CORE, INSULATION AND AN OUTER MOISTURE BARRIER. THE INNER CORE SHALL BE CONSTRUCTED OF A CHLORINATED POLYETHYLENE (CPE) BONDED TO THE COATED WIRE HELIX FOR MAXIMUM STRENGTH AND DURABILITY.
FLEXIBLE DUCT USED ON SUPPLY & RETURN DUCTS SHALL BE NO MORE THAN 5'–0" MAXIMUM LENGTH.

2.06 FILTERS

A. GENERAL:

1. B. UNIT FILTERS: ALL FILTERS SHALL BE 2" MERV 13

2.07 GRILLES, REGISTERS, AND DIFFUSERS

A. CEILING SUPPLY DIFFUSERS SHALL BE NAILOR MODULAR CORE (SERIES 7500) OR EQUAL, WITH LAY–IN OR SURFACE TYPE FRAME, AS SPECIFIED, OPPOSED BLADE DAMPER AND EXTRACTOR. DIFFUSER SHALL BE PROVIDED WITH FACTORY APPLIED OFF WHITE FINISH, ALL AS SCHEDULED ON THE DRAWINGS.

B. CEILING RETURN GRILLE AND EXHAUST SHALL BE NAILOR (SERIES 6145H) OR EQUAL, MADE OF STEEL WITH FACTORY APPLIED FINISH TO MATCH THE SUPPLIES, ALL AS SCHEDULED ON THE DRAWINGS.

C. GRILLES SHALL BE SELECTED AND APPROVED BY MANUFACTURER TO OPERATE WITHOUT OBJECTIONABLE NOISE OR DRAFT.

D. PAINT INSIDE OF CAN FLAT BLACK

2.08 REFRIGERANT PIPING AND ACCESSORIES

A. PIPING: NIBCO, CHASE, OR EQUAL, DEOXIDIZED HARD, TYPE L COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS AND SILVER SOLDERED JOINTS. SOLDER SHALL HAVE A MINIMUM OF 45% SILVER CONTENT.

B. FILTER DRYERS: HENRY V8000.

C. SIGHT GLASSES: HENRY, OR EQUAL, MOISTURE, INDICATING TYPE: 7/8" OD AND SMALLER – TYPE MI–20–S, SINGLE PORT; 1–1/8" OD AND LARGER – DOUBLE PORT.

D. VALVES: HENRY, OR APPROVED EQUAL.

E. INSTALLATION AND TESTING: PIPING SHALL BE CONTINUOUSLY PURGED WITH NITROGEN WHILE SOLDERING JOINTS. AFTER INSTALLATION OF PIPING, PRESSURIZE WITH DRY NITROGEN TO 300 PSIG AND TEST ALL JOINTS WITH AN ELECTRIC DETECTOR, HALIDE TORCH, OR SOAP BUBBLES. RELEASE PRESSURE AND ATTACH HIGH VACUUM PUMP, EVACUATE TO 2 MM (2000 MICRONS) AND HOLD FOR 15 MINUTES. BREAK TO 5 PSIG WITH DRY NITROGEN. EVACUATE TO 2 MM AND HOLD FOR 30 MINUTES. PRESSURE MEASUREMENTS ARE TO BE MADE WITH MERCURY MANOMETER OR ELECTRIC VACUUM GAUGE.

F. PIPE INSULATION: REFRIGERANT PIPING: REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH 3/4" THICK SECTIONAL PIPE COVERING OF FOAMED PLASTIC MATERIAL. ALL JOINTS SHALL BE SEALED WITH APPROVED MASTIC. PIPE COVERING OUTSIDE OF THE BUILDING SHALL HAVE A WEATHERPROOF COVER CONSISTING OF AN ALUMINUM JACKET OR PAINTED WITH TWO COATS OF EXTERIOR ENAMEL.

2.09 EQUIPMENT

A. COMBINATION HEATING AND COOLING ROOF TOP AIR CONDITIONING UNIT:

1. GENERAL: THE UNIT SHALL BE PACKAGE–TYPE COOLING\HEATING AIR COOLED SELF–CONTAINED HIGH EFFICIENCY AIR CONDITIONING UNIT. IT SHALL BE CARRIER, TRANE, OR EQUAL, SIZED AS SHOWN ON THE DRAWINGS.

A. UNITS SHALL BE DESIGNED FOR ROOF MOUNTING OUTDOORS AS SHOWN ON THE DRAWINGS AND SHALL CONSIST OF COMPRESSORS, CONDENSERS, EVAPORATOR COILS, CONDENSER AND EVAPORATOR FANS, REFRIGERATION AND FACTORY INSTALLED TEMPERATURE CONTROLS, FILTERS, AND OUTDOOR AIR DAMPERS. UNITS SHALL BE DOWN DISCHARGE AS SHOWN ON THE DRAWINGS. THE DOWN DISCHARGE UNIT SHALL BE DESIGNED INTERNALLY FOR DOWN DISCHARGE APPLICATION.

B. UNIT CABINET SHALL BE CONSTRUCTED OF GALVANIZED STEEL, BONDERIZED AND COATED WITH A BAKED ENAMEL FINISH. CABINET INTERIOR SHALL BE INSULATED WITH 1" THICK NEOPRENE COATED FIBERGLASS. CABINET PANELS SHALL BE EASILY REMOVABLE FOR SERVICE ACCESS TO ALL OPERATING COMPONENTS. A CONDENSATE DRAIN CONNECTION FOR THE INDOOR COIL SHALL BE PROVIDED.

C. FANS AND MOTORS: INDOOR BLOWERS SHALL BE FORWARD CURVED CENTRIFUGAL BELT DRIVEN TYPE CAPABLE OF DELIVERING THE REQUIRED CFM AT THE EXTERNAL STATIC PRESSURE AS SPECIFIED IN THE EQUIPMENT SCHEDULE. INDOOR BLOWER MOTORS SHALL HAVE PILLOW BLOCK BEARINGS WITH PROVISION FOR LUBRICATION. OUTDOOR FANS SHALL BE OF THE PROPELLER TYPE, DIRECT DRIVE, WITH PERMANENTLY LUBRICATED BEARINGS AND SHALL DISCHARGE AIR UPWARDS.

D. COILS: INDOOR AND OUTDOOR COILS SHALL BE OF NON–FERROUS CONSTRUCTION WITH ALUMINUM PLATE FINS MECHANICALLY BONDED TO SEAMLESS COPPER TUBES WITH ALL JOINTS BRAZED AND COIL GUARD.

E. COMPRESSORS: SHALL BE HERMETIC OR SCROLL TYPE. THEY SHALL HAVE VIBRATION ISOLATORS AND A FACTORY INSTALLED CRANKCASE HEATER. COMPRESSORS SHALL BE FURNISHED WITH A STANDARD 1 YEAR PRODUCT WARRANTY AND AN ADDITIONAL 2ND THROUGH 5TH YEAR WARRANTY. COMPRESSORS SHALL BE CAPABLE OF OPERATION DOWN TO 45 DEGREES F OUTDOOR AIR TEMPERATURE.

1) UNIT SHALL BE CAPABLE OF UNLOADING DOWN TO 15% OF FULL LOAD CAPACITY.

F. COOLING SYSTEM ACCESSORIES AND SAFETY CONTROLS: SHALL INCLUDE MANUAL RESET, LOW AND HIGH PRESSURE SWITCHES, OVERLOADS, ANTI–RECYCLE TIMING DEVICE AND ADJUSTABLE LOW AMBIENT LOCKOUT.

1) COOLING SYSTEM SHALL INCLUDE THERMAL EXPANSION VALVES, FILTER DRIERS, SIGHT GLASSES, COMPRESSOR SERVICE VALVES AND LIQUID LINE SERVICE VALVES.

2. HEATING / COOLING SECTION:

A. HEATING SECTION SHALL BE FORCED COMBUSTION TYPE POWER BURNER, NEGATIVE PRESSURE GAS VALVE, MANUAL SHUT–OFF, HOT SURFACE IGNITION, AND FLAME SENSING SAFETY CONTROL.

1) THE HEAT EXCHANGER SHALL BE OF THE TUBULAR SECTION TYPE CONSTRUCTED ON A MINIMUM OF 20–GAUGE STEEL COATED WITH A NOMINAL 1.4 MIL ALUMINUM–SILICONE ALLOY FOR CORROSION RESISTANCE.

2) BURNERS SHALL BE OF THE IN–SHOT TYPE CONSTRUCTED OF 320 STEEL.

3) ALL GAS PIPING SHALL ENTER THE UNIT CABINET AT A SINGLE LOCATIONS.

B. THE COOLING SECTION SHALL HAVE THE REQUIRED CAPACITY AND CFM AIR DELIVERY AS SHOWN ON THE PLAN WITH THE RETURN AND CFM AIR DELIVERY AS SHOWN ON THE PLAN WITH THE RETURN AIR AT A TEMPERATURE OF 80 DEGREES DB AND 67 DEGREES WB AND OUTDOOR AIR TEMPERATURE OF 105 DEGREES DB.

C. THE COILS SHALL BE ALUMINUM FINNED MECHANICALLY BONDED TO COPPER TUBING AND PROVIDED WITH COIL GUARD.

D. UNIT FILTER SECTION: STANDARD FILTER SECTION SHALL CONSIST OF LOW VELOCITY, DISPOSABLE FIBERGLASS 2" FILTERS OF COMMERCIALLY AVAILABLE SIZES. FILTER FACE VELOCITY SHALL NOT EXCEED 300 FPM AT NOMINAL AIR FLOWS. SEE PARAGRAPH TITLED "FILTERS" HEREIN.

E. THE COMPRESSOR SHALL BE SCROLL, HERMETICALLY SEALED TYPE AND SHALL BE EQUIPPED WITH VIBRATION ISOLATORS. THE COMPRESSOR MOTOR ASSEMBLY SHALL BE PROTECTED BY OVERLOADS AND/OR INTERNAL THERMOSTAT PROTECTION. THE COMPRESSOR SHALL BE PROVIDED WITH A TOTAL OF FIVE (5) YEARS WARRANTY.

F. THE UNIT SHALL BE EQUIPPED WITH LOW AMBIENT TEMPERATURE CONTROL DOWN TO 45 DEGREES F, CRANKCASE HEATER, HEAD PRESSURE CONTROL, COMPRESSOR TIME CYCLE PROTECTOR, CONVENIENCE OUTLET, AND A FACTORY INSTALLED, INTERNALLY MOUNTED, NEC, UL, AND APPROVED NON–FUSED DISCONNECT.

G. PROVIDE A FULL ECONOMIZER AS DETAILED ON THE DRAWINGS WITH ADJUSTABLE TEMPERATURE CONTROL SETTING FOR "FREE" COOLING WITH OUTDOOR AIR WHILE LOCKING OUT COMPRESSOR BY DRY BULB TEMPERATURE. THE ECONOMIZER SHALL BE MODULATING TYPE. UNITS TO BE PROVIDED WITH BAROMETRIC RELIEF DAMPER PROVIDING POSITIVE BUILDING EXHAUST.

H. ROOF CURB: UNITS SHALL BE INSTALLED ON FULL PERIMETER SUPPORT NATIONAL ROOFING CONTRACTORS ASSOCIATION APPROVED ROOF CURBS WHEN SHOWN. CURBS SHALL HAVE SEAL STRIP ON LOAD BEARING SURFACE, WOOD NAILER STRIP TO FACILITATE FLASHING AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. CURBS SHALL BE PRE–SLOPED TO MATCH THE SLOPE OF THE ROOF AND HAVE A MINIMUM HEIGHT OF 18" AT THE HIGH POINT OF THE ROOF.

I. COMPRESSOR WARRANTY: UNIT MANUFACTURER SHALL INCLUDE OPTIONAL COMPRESSOR WARRANTY FOR A TOTAL OF FIVE (5) YEARS.

2.09 EQUIPMENT – CONTINUED

B. SPLIT SYSTEM HEAT PUMP WITH CEILING CASSETTE FAN COIL:

1. REFER TO FAN COIL / HEAT PUMP SCHEDULE FOR SPECIFICATION OF EQUIPMENT. ANY SUBSTITUTION SHALL BE OR EQUAL.

C. ERV (ENERGY RECOVERY UNIT):

1. REFER TO ERV UNIT SCHEDULE FOR SPECIFICATION OF EQUIPMENT. ANY SUBSTITUTION SHALL BE OR EQUAL.

D. CEILING EXHAUST FAN:

1. CEILING FANS SHALL HAVE THE CAPACITY AS SHOWN ON THE DRAWINGS. THEY SHALL INCLUDE WALL OR ROOF CAP AS APPLICABLE, AND REQUIRED DUCTWORK. FANS SHALL BE CONTROLLED BY WALL SWITCHES. EXHAUST FAN SHALL BE SCHEDULED ON THE DRAWINGS AND BE COMPLETE AS FOLLOWS:

A. MOTOR AND FAN SHALL BE MOUNTED ON RUBBER ISOLATORS AND BE VIBRATION FREE AND QUIET OPERATING. CAPACITY AND RPM SHALL BE AS SCHEDULED ON THE DRAWINGS.

2.10 TEMPERATURE CONTROL

A. GENERAL: THE WIRING AND LOW VOLTAGE TEMPERATURE CONTROL EQUIPMENT IN ACCORDANCE WITH THE WIRING DIAGRAMS AND THE FUNCTIONAL OPERATION OF THE TEMPERATURE CONTROL SYSTEM SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE VOLTAGE WIRING, AND ALL LINE AND LOW VOLTAGE CONDUIT, DISCONNECTS, MANUAL AND AUTOMATIC STARTERS, AND CONNECT UP ALL MOTORS COMPLETE.

B. DRAWINGS OF TEMPERATURE CONTROL SYSTEM ARE DIAGRAMMATIC ONLY, AND ANY APPARATUS NOT SHOWN, SUCH AS RELAYS, ACCESSORIES, ETC., BUT REQUIRED TO MAKE THE SYSTEM OPERATIVE TO THE COMPLETE SATISFACTION OF THE ARCHITECT SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL COST.

C. ALL ELECTRIC CONNECTIONS TO TEMPERATURE CONTROL EQUIPMENT SHOWN ON THE TEMPERATURE CONTROL DIAGRAMS OR SPECIFIED, WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR PERFORMING THIS WORK, AND, WHERE EXPOSED TO WEATHER, SHALL BE RUN IN CONDUIT.

D. ALL EQUIPMENT AND CONTROLS SUCH AS STARTERS, SWITCHES, RELAYS, ETC., SHALL BE CLEARLY IDENTIFIED AND LABELED AS TO FUNCTION AND POSITION WITH PERMANENTLY ENGRAVED NAMEPLATES.

E. ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR THAT IS NORMALLY WIRED BEFORE INSTALLATION SHALL BE FURNISHED COMPLETELY WIRED. TEMPERATURE CONTROL WIRING NORMALLY PERFORMED IN THE FIELD WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

F. PRIOR TO INSTALLATION, THE MECHANICAL CONTRACTOR SHALL SUBMIT DIAGRAMS, COMPONENT DATA AND DESCRIPTION OF SEQUENCE OF OPERATION TO ARCHITECT FOR APPROVAL.

G. ENTIRE SYSTEM SHALL BE GUARANTEED FOR ONE YEAR WITH EMERGENCY SERVICE FOR AN ADDITIONAL YEAR WITHOUT CHARGE TO THE OWNER FROM THE DATA OF ACCEPTANCE OF THE COMPLETED BUILDING. AFTER COMPLETION OF THE INSTALLATION, THE MECHANICAL CONTRACTOR SHALL REGULATE AND ADJUST ALL THERMOSTATS, DAMPERS, MOTORS AND OTHER TEMPERATURE CONTROL EQUIPMENT PROVIDED UNDER THIS CONTRACT.

H. ENTIRE SYSTEM SHALL BE AS SHOWN ON THE DRAWINGS.

PART 3 EXECUTION

3.01 INDEPENDENT AGENCY SYSTEM BALANCE AND ADJUSTMENT

A. GENERAL: HEATING AND AIR CONDITIONING CONTRACTOR SHALL OBTAIN THE SERVICE OF AN INDEPENDENT TEST AND BALANCING AGENCY, OR EQUAL, THAT SPECIALIZES IN, AND WHOSE BUSINESS IS LIMITED TO, TESTING AND BALANCING OF AIR CONDITIONING SYSTEMS.
B. CONTRACTOR SHALL COORDINATE WORK DONE BY TESTING AND BALANCING AGENCY WITH WORK OF OTHER TRADES.
C. TESTING AND BALANCING AGENCY AS PART OF ITS CONTRACT SHALL ACT AS AUTHORIZED INSPECTION AGENCY AND SHALL REPORT ANY DISCREPANCIES OR ITEMS NOT INSTALLED IN ACCORDANCE WITH CONTRACT DRAWINGS AND/OR SPECIFICATIONS PERTAINING TO AIR AND WATER DISTRIBUTION, AND EXHAUST SYSTEMS.
D. CONTRACTOR SHALL PROVIDE FOR ADJUSTMENTS AND/OR ADDITIONS OR MODIFICATIONS TO FAN AND MOTOR SHEAVES, BELTS, DAMPER LINKAGES AND THE LIKE TO ACHIEVE PROPER AIR BALANCE AT NO ADDITIONAL COST.
E. TESTING AND BALANCING SHALL BE PERFORMED IN COMPLETE ACCORD WITH ABC NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION, VOLUME FOUR. TESTING AND BALANCING SHALL BE PERFORMED ON ALL AIR DISTRIBUTION SYSTEMS.
F. ALLOWANCE SHALL BE MADE FOR AIR FILTER RESISTANCE AT THE TIME OF THE TESTS. THE MAIN AIR SUPPLIES SHALL BE AT DESIGN AIR QUANTITIES AND AT AN AIR RESISTANCE ACROSS THE FILTER BANK MIDWAY BETWEEN THE DESIGN SPECIFICATIONS FOR CLEAN AND DIRTY FILTERS. THE ROOM AIR SUPPLY AND EXHAUST SHALL BE WITHIN 1 AND +10% OF DESIGN AIR QUANTITIES FOR ROOMS WITH AN AIR SUPPLY, RETURN OR EXHAUST UNDER 1000 CFM OR MORE IN ROOMS WITH MULTIPLE OUTLETS. IN ALL CASES, THE TOTAL AIR QUANTITIES SUPPLIED TO ANY FLOOR OR MAJOR ZONE SHALL BE WITHIN 1 AND +5% OF THE DESIGN.
G. STATIC PRESSURE READINGS SHALL BE TAKEN WITH AN INCLINED MANOMETER; AIR VELOCITY READINGS SHALL BE TAKEN WITH INSTRUMENTS OF RECENT CALIBRATION. THE FINAL VELOCITY READINGS SHALL BE TAKEN WITH AN ALNOR VELOMETER, ANEMOTHERN, OR A VANE TYPE ANEMETER CALIBRATED PRIOR TO THE TEST AND RECALIBRATED AT THE END OF THE TEST.
H. TESTS SHALL BE RUN WITH SUPPLY, RETURN, AND EXHAUST SYSTEMS OPERATING WITH ALL DOORS, WINDOWS, ETC., CLOSED OR UNDER

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This document is used to demonstrate compliance with mandatory commissioning requirements in 120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.

A. GENERAL INFORMATION

01	Project location (city)	Stockton	04	Building Size (ft²)	25172
02	Occupancy Type	Nonresidential	05		10,000 - 49,999 ft²
03	Project Type	Newly constructed	06		Unitary or packaged equipment each serving one zone
			07	Climate Zone	12

B. PROJECT SCOPE

Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per 120.8. Table B is not editable by the user.

Commissioning Requirements per 120.8			
01	Table F: Design Review Kickoff	120.8(d)1 and 120.8(d)2	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)	120.8(b)	The owner's project requirements establish the owner's goals, requirements and expectations for everything related to energy consumption and operation. This should be completed during schematic design.
03	Table H: Basis of Design (BOD)	120.8(c)	The basis of design documents the design elements such as calculations and product selections that meet the owner's project requirements and applicable regulatory requirements. This should be completed during schematic design.
04	Table I: Design Review	120.8(d) and 120.8(e)	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft² of nonresidential conditioned floor area, the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan	120.8(f)	The commissioning plan is developed by the commissioning provider with input from the designer and defines the scope of commissioning the project. This should be drafted during design and completed during early construction.
06	Table K: Functional Performance Testing	120.8(g)	Functional performance testing is conducted on building systems to demonstrate correct installation and operation.
07	Table L: Documentation and Training	120.8(h)	Documentation of the operational aspects of the building shall be completed within the Systems Manual and delivered to the building owner or representative and facilities operator.

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B. PROJECT SCOPE

08	Table M: Commissioning Report	120.8(i)	A complete report of commissioning process activities undertaken through the design, construction and reporting recommendations for post-construction phases of the building project shall be completed and provided to the owner or representative.

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per 120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

01	02	03	04	05	06	07	08	09
Design Kickoff Review	Owner's Project Requirements	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	
Table F	Table G	Table H	Table I	Table J	Table K	Table L	Table M	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	COMPLIES
10								COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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F. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff requirements per 120.8(d)2. This meeting should occur during the Schematic Design phase of the project.

Design Review Kickoff Meeting Details				
01	Date of Design Review Kickoff Meeting		0001-01-01	
02	Meeting Attendees: (one person may play multiple roles)			
☐	Owner/Facility Manager:	☒	Design Reviewer(s)	Designer
☐	Project Manager:	☐	Design Architect/ Engineer(s):	
☐	Contractor:	☐	Certified Acceptance Test Tech(s):	
☐	Commissioning Provider:	☐	Energy/ T24 Part 6 Consultant:	

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1			
The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.		Do the Design Reviewer(s) meet these qualifications?	
03	In addition, for buildings with >= 10,000 ft² but < 50,000², the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor	Yes	No
		●	○
04	The design reviewer(s) for this project will be:	Designer	

Preliminary Construction Schedule			
		Start Date	Completion Date
05	Schematic Design	0001-01-01	0001-01-01
06	Design Development	0001-01-01	0001-01-01
07	Construction Documents	0001-01-01	0001-01-01
08	Construction	0001-01-01	0001-01-01
09	Building Turnover	0001-01-01	0001-01-01

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G. OWNER'S PROJECT REQUIREMENTS (OPR)

This table is only completed if an OPR document is not attached to permit application to demonstrate compliance with 120.8(b). If a specific field is not applicable to the project scope, "NA" is indicated in the table. Per 120.8(b), the OPR is to be completed before design begins. This may be done at the Design Review Kickoff Meeting (see Table F)

		YES	NO
01	Attaching Completed Owner's Project Requirements Document?	●	○
02	Owner's Project Requirements Document Authors and Roles		

H. BASIS OF DESIGN (BOD)

This table is only completed if a BOD document is not attached to the permit application to demonstrate compliance with 120.8(c). If a specific field is not applicable to the project scope, "NA" is indicated in the table. Per 120.8(c), the BOD should be completed and updated during the design phase.

		YES	NO
01	Attaching Completed Basis of Design Document?	●	○
02	Basis of Design Document Authors and Roles		

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

This table is only completed if a design review document is not attached to permit application to demonstrate compliance with 120.8(b) and 120.8(e). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff.

		YES	NO
01	Attaching Completed Design Review Documentation?	●	○

J. COMMISSIONING PLAN

This table is only completed if a Commissioning Plan document is not attached to permit application to demonstrate compliance with 120.8(f). Per 120.8(f), the Commissioning Plan is to be started during the design phase and a completed draft must be submitted with permit application

		YES	NO
01	Attaching Completed Commissioning Plan?	●	○
02	Commissioning Plan Authors and Roles		

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K. FUNCTIONAL PERFORMANCE TESTING

The table below is completed to demonstrate compliance with functional performance testing requirements per 120.8(g).

By checking this box, the responsible party[1] certifies that functional performance testing will be executed to demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the acceptance test requirements in 120.5, 130.4 and 140.9. The functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.	01 ☐

The following acceptance tests have been identified as applicable to the project scope:[2]

02	03	04	05
System/ Equipment to be Tested	Brief description of functional performance test	Applicable Reference Appendix	Certified Acceptance Test Technician Required?

The acceptance tests required by Title 24, Part 6 outline the minimum functional performance testing scope to be conducted for compliance. However, the commissioning scope may include additional functional performance tests on systems or equipment not having acceptance tests required by Title 24 Part 6.

The following additional functional performance tests have been requested by the owner or owner's representative:

06	07
System/ Equipment to be Tested	Brief description of functional performance test

[1]FOOTNOTE: See the signature block on the last page of this compliance document for the responsible party.
[2]Required acceptance tests can be determined by reviewing the "Certificates of Acceptance" table on each Certificate of Compliance submitted for permit application.

L. DOCUMENTATION AND TRAINING

The table below is completed to demonstrate compliance with documentation and training requirements per 120.8(h)

By checking this box, the responsible party[1] certifies that a systems manual will be provided to the building owner or representative per 120.8(h)1.	01 ☒
By checking this box, the responsible party[1] certifies that a training of the appropriate maintenance staff for each equipment and system will be completed and documented in the commissioning report per 120.8(h)2. Training requirements should be included in the contract document in the specifications.	02 ☒

[1]FOOTNOTE: See the signature block on the last page of this compliance document for the responsible party.

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M. COMMISSIONING REPORT

The table below is completed to demonstrate compliance with commissioning report requirements per 120.8(i)

By checking this box, the responsible party[1] certifies that a complete report of commissioning process' activities undertaken through the design, construction and reporting recommendations for post-construction phases of the building project shall be completed and provided to the owner or owner's representative.	01 ☒

[1] FOOTNOTES: See the signature block on the last page of this compliance document for the responsible party.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no forms required for this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jason Van Abt	Documentation Author Signature:
Company: ALEXANDER SCHEFLO & ASSOCIATES	Signature Date: 08-08-25
Address: 2926 Pacific Avenue	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Stockton CA 95204	Phone: 209-948-9761

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company: WMB Architects	Date Signed: 2025-08-08
Address: 5757 Pacific Avenue, Suite 226	License:
City/State/Zip: Stockton CA 95207	Phone: 209-944-9110

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name:	Port of Stockton Bldg. 315 Phase II	(Page 1 of 14)
		Date Prepared: 8/8/2025

This document is used to demonstrate compliance with mandatory requirements in 110.8(g) and 120.7(b)/ 160.1 for newly constructed nonresidential, hotel/ motel, multifamily and mixed-use buildings, and 141.0(b)1/ 180.2 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in 140.3/ 170.2 for newly constructed buildings, and 141.0/ 180.1/ 180.2 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	05	# of Stories (Habitable Above Grade)	1
02	Zipcode	95203	06	Total Conditioned Floor Area (ft²)	25172
03	Climate Zone	12	07	Total Unconditioned Floor Area (ft²)	0
04	Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per 100.0(f).		08	☐ Project includes unconditioned enclosed space(s) > 5,000 ft² under a roof with a ceiling height of at least 15 ft.[1]	

● Office ● Support Areas ● All Other Occupancies

[1] FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in 140.3(c)/ 170.2(b). Compliance with 140.3(c)/ 170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in 140.3/ 170.2 and 141.0(a)1/ 180.1 and 141.0(b)1 and 2/ 180.2 for additions and alterations.

My project consists of (check all that apply)		Component Types				
		01		02		
☐	New Construction or Newly Conditioned Space	☐	Roof	☐	Walls	☐ Exterior Opaque Doors
☐	☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft			☐	Floors	☐ Fenestration/ Glazed Doors[1]
☐	Addition of conditioned space	☐	Roof	☐	Walls	☐ Exterior Opaque Doors
	☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft					
	☐ Addition is <=700 ft²			☐	Floors	☐ Fenestration/ Glazed Doors[1]
	☐ Addition is >700 ft²					
☒	Alteration of conditioned space	☐	Roof Assembly	☒	Walls	
	☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐	Roofing Material[2]	☐	Floors	☒ Fenestration

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name:	Port of Stockton Bldg. 315 Phase II	(Page 2 of 14)
		Date Prepared: 8/8/2025

B. PROJECT SCOPE

[1]FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration.
[2]Roof recovers and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000ft²	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors			
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES
Yes	Yes	Yes			Yes		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This section does not apply to this project.

G. RATED ROOFING MATERIAL (COOL ROOF)

This section does not apply to this project.

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name:	Port of Stockton Bldg. 315 Phase II	(Page 3 of 14)
		Date Prepared: 8/8/2025

H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in 140.3(a)/ 170.2(a) for new constructions, 141.0(a)/ 180.1 for additions and 141.0(b)1B/ 180.2 for alterations.

01	Indicate wall types included in the project:[1]	☐ Framed	☐ Mass (new only)	☐ Concrete Sandwich Panel (new only)	☐ SIPS	☐ ICF (new only)
		☐ Metal Panels	☐ Metal Building	☐ Spandrel/ Curtain Wall	☐ Straw Bale	☐ Log Home (new only)

[1] FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

I. FLOOR ASSEMBLY SCHEDULE

This section does not apply to this project.

J. EXTERIOR DOOR SCHEDULE

This section does not apply to this project.

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This table demonstrates compliance with prescriptive fenestration requirements in 140.3(a)5/ 170.2(a)3 for new constructions, 141.0(a)/ 180.1 for additions, or 141.0(b)2A/ 180.2 for alterations. Exterior doors that are more than 25% glass in area are considered Glazed Doors and should be documented on this table with fenestration.

01	Indicate fenestration types included in the project:[1]	☒ Vertical (alterations)	☐ Vertical (new)	☒ Skylights	☐ Glazed Doors (new only)

[1] FOOTNOTES: Fenestration types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)		
01	☒	Calculate Area-Weighted Average U-factor for Vertical Fenestration and Glazed Doors[1]
02	☒	Calculate Area-Weighted Average (R)SHGC for Vertical Fenestration and Glazed Doors[1]
03	☒	Calculate Area-Weighted Average VT for Vertical Fenestration and Glazed Doors[1]

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name:	Port of Stockton Bldg. 315 Phase II	(Page 4 of 14)
		Date Prepared: 8/8/2025

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09		10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	U-factor/ (R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design[2]		Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft²
(E) Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	211.5
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.5	
(E) Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	65
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.5	
(E) Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	72
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.5	
(E) Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	106
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.5	
(E) Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	40
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.5	
(E) Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	73
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.5	

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name:	Port of Stockton Bldg. 315 Phase II	(Page 5 of 14)
		Date Prepared: 8/8/2025

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09		10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	U-factor/ (R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design[2]		Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft²
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	82.5
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.816	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	96
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.816	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	164
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.816	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	119
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.816	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	192.7
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.816	
(E) Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	66
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.5	

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name:	Port of Stockton Bldg. 315 Phase II	(Page 6 of 14)
		Date Prepared: 8/8/2025

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09		10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	U-factor/ (R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design[2]		Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft²
(E) Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	73
					☒	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.5	
(E) Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	36
					☐	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.5	
Altered Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : Alt. [Replacement > 150ft2]	Table141.0-A	Equation 140.3-B (new only)	NFRC Certified		U-factor (max)	0.47	0.36	18
					☐	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.31	0.25	
							VT (min)	0.39	0.5	
Altered Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : Alt. [Replacement > 150ft2]	Table141.0-A	Equation 140.3-B (new only)	NFRC Certified		U-factor (max)	0.47	0.36	18
					☐	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.31	0.25	
							VT (min)	0.39	0.5	
Altered Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	§110.6 Defaults		U-factor (max)	1.19	1.19	18
					☐	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.68	0.68	
							VT (min)	0.39	0.5	
Altered Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : Alt. [Replacement > 150ft2]	Table141.0-A	Equation 140.3-B (new only)	NFRC Certified		U-factor (max)	0.47	0.36	24
					☐	Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.31	0.25	
							VT (min)	0.39	0.5	

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CA Building Energy Efficiency Standards - 2

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09		10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	U-factor/ (R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design[2]		Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft²
Altered Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : Alt. (Replacement > 150ft2)	Table141.0-A	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.47	0.36		24
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.31	0.25		
						VT (min)	0.39	0.5		

Overhang Details for RSHGC per 140.3/ 170.2

26	27	28	29	30	31	32
SHGC of Window						RSHGC
0.68						0.295
0.68						0.298
0.68						0.295
0.68						0.295
0.68						0.295
0.68						0.295
0.68						0.298
0.68						0.298
0.68						0.298
0.68						0.301
0.68						0.298
0.68						0.298
0.68						0.295
0.68						0.295
0.68						0.295

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Overhang Details for RSHGC per 140.3/ 170.2

26	27	28	29	30	31	32
SHGC of Window						RSHGC
0.68						0.295
0.68						0.295
0.68						0.295

[1]*FOOTNOTES: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations. Area-weighted calculation shown in separate area-weighted table below.*
[2]*The NA6 Default Calculation can only be used for alterations or dwelling units in buildings with <= 3 habitable stories. Alterations are limited to 200ft² of site built glazing and dwelling units are limited to 250ft² or 5% of conditioned floor area. If the fenestration does not meet these conditions, the only options for determining fenestration values are NFRC Certification or the Default Tables in 110.6.*
[3]*Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an affect on the RSHGC. If an overhang does not meet this requirement, the affect of the overhang will be ignored.*
[4]*Projecting includes casement and awning windows.*

Skylights- Total Area

01	02	03	04
Building has Atria > 55ft?	Gross Exterior Roof Area (ft²)	Maximum Allowed Skylight Area[1] (ft²)	Total Skylight Area per Design (ft²)
No	25,081	1,254	36

[1]*FOOTNOTES: 5% of total roof area allowed for areas other than atria > 55 ft. 10% allowed for atria > 55 ft.*

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Skylights- U-factor, Solar Heat Gain Coefficient (SHGC), Visible Transmittance (VT)

01	☒	Calculate Area-Weighted Average U-factor for Skylights[1]
02	☒	Calculate Area-Weighted Average SHGC for Skylights[1]
03	☒	Calculate Area-Weighted Average VT for Skylights[1]

04	05	06	07	08	09	10		11	12
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	Calculation Method for Performance Values per Design[2]	Glaze/ Diffuser with Haze Value > 90%?	Compliance Method for Multifamily Alterations	Required Product Performance		Product Performance per Design	Area ft²
Skylight	Glass, curb mounted	Nonresidential/ Relocatable 1 CZ: : Alt. (Add/Replacement > 50ft2)	NFRC Certified			U-factor (max)	0.87	0.87	36
						SHGC (max)	0.7	0.7	
						VT (min)	0.5	0.5	

[1]*FOOTNOTES: If any individual skylight product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations. Area-weighted calculation shown in separate area-weighted table below.*
[2]*The NA6 Default Calculation can only be used for alterations or dwelling units in buildings with <= 3 habitable stories. Alterations are limited to 200ft² of site built glazing and dwelling units are limited to 250ft² or 5% of conditioned floor area. If the fenestration does not meet these conditions, the only options for determining fenestration values are NFRC Certification or the Default Tables in 110.6.*

Area-Weighted Average U-factor, SHGC, VT Compliance Calculation for Vertical Fenestration And Glazed Doors

01	02	03	04	05
Product Performance Unit	Total Area of Fenestration (ft²)	Area-weighted Calculation for Fenestration		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
U-Factor	2126.9	0.47	0.36	COMPLIES
(R)SHGC	2126.9	0.31	0.25	COMPLIES
VT	2126.9	0.42	0.5	COMPLIES

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Area-Weighted Average U-factor, SHGC, VT Compliance Calculation for Skylights

01	02	03	04	05
Product Performance Unit	Total Area of Fenestration (ft²)	Area-weighted Calculation for Fenestration		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
U-Factor	36	0	0	COMPLIES
(R)SHGC	36	0	0	COMPLIES
VT	36	0	0	COMPLIES

L. DAYLIGHT IN LARGE ENCLOSED SPACES

This section does not apply to this project.

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ENV-01-E - Must be submitted for all buildings

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/. Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.1.1

Form/Title	Systems/Spaces To Be Field Verified
NRCA-ENV-02-F must be submitted for all new, added or altered site built fenestration.	Fenestration;

O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jason Vail Aist	Documentation Author Signature:
Company: ALEXANDER SCHEFLO & ASSOCIATES	Signature Date: 2025-08-08
Address: 2926 Pacific Avenue	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Stockton CA 95204	Phone: 209-948-9761

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company: WMB Architects	Date Signed: 2025-08-08
Address: 5757 Pacific Avenue, Suite 226	License:
City/State/Zip: Stockton CA 95207	Phone: 209-944-9110

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	25172
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
(N) AC-6	1	Single zone	Alteration		☐
(N) AC-7	1	Single zone	Alteration		☐
(N) AC-8	1	Single zone	Alteration		☐
(N) AC-9	1	Single zone	Alteration		☐

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
(N) AC-10	1	Single zone	Alteration		☐
(N) FC-1 / HP-19	1	Single zone	Alteration		☐
(N) FC-2 / HP-2	1	Single zone	New/ Addition		☐
(N) FC-3 / HP-3	1	Single zone	New/ Addition		☐

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3iii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
(N) AC-6	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	NA: Altered per 141.0(b)2E and 180.2(b)2	37	37	0	23.21	20.3	19.6	18.92
(N) AC-7	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	NA: Altered per 141.0(b)2E and 180.2(b)2	49	49	0	33.17	32.73	41.74	35.25
(N) AC-8	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	NA: Altered per 141.0(b)2E and 180.2(b)2	49	49	0	33.56	32.73	38.66	38.09
(N) AC-9	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	NA: Altered per 141.0(b)2E and 180.2(b)2	103	103	0	60.11	59.02	64.25	71.82

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	NA: Altered per 141.0(b)2E and 180.2(b)2	49	49	0	34	32.73	47.64	43.25
(N) AC-10			NA: Load Controls	22.45	38	0	26.54	22.2	23.76	29.13
(N) FC-1 / HP-19	Unitary Heat Pumps	Air-cooled, split (1phase)	NA: Altered per 141.0(b)2E and 180.2(b)2	15.95	27	0	20.82	17.39	17.78	21.99
(N) FC-2 / HP-2	Unitary Heat Pumps	Air-cooled, split (1phase)	NA: Load Controls	22.45	38	0	26.54	22.2	23.76	29.13
(N) FC-3 / HP-3	Unitary Heat Pumps	Air-cooled, split (1phase)	NA: Load Controls	25.4	43	0	31.05	26.47	28.44	31.56

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(b) and 170.2(c)1. Healthcare facilities are excepted.*
[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3]*If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4]*Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
(N) AC-6	<65,000		AFUE	0.8	0.81	SEER2	13.4	13.4
(N) AC-7	<65,000		AFUE	0.8	0.81	SEER2	13.4	13.4
(N) AC-8	<65,000		AFUE	0.8	0.81	SEER2	13.4	13.4
(N) AC-9	<65,000		AFUE	0.8	0.82	SEER2	13.4	15
(N) AC-10	<65,000		AFUE	0.8	0.81	SEER2	13.4	13.4

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
(N) FC-1 / HP-19	<65,000		HSPF2	7.5	11	SEER2	14.3	23.2
(N) FC-2 / HP-2	<65,000		HSPF2	7.5	10.6	SEER2	14.3	22.4
(N) FC-3 / HP-3	<65,000		HSPF2	7.5	10.5	SEER2	14.3	21.3

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	(N) AC-6	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	950	Site Elevation	12	Economizer	NA: Altered packaged AC or HP <54 kBtu/h
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			100			220		Manufacturer provided				0.31
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			132						
			Gas heat			100			55						
			Hydronic/DX cooling coil or heat pump coil			100			132						
			Supply Fan System			100			132						
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)							Fan System Allowance (kW)[3]	1		Fan System Electrical Output (kW)		0.31

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	(N) AC-7	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	12	Economizer	NA: Altered packaged AC or HP <54 kBtu/h
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			100			371		Manufacturer provided				0.93
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			222						
			Gas heat			100			93						
			Hydronic/DX cooling coil or heat pump coil			100			222						
			Supply Fan System			100			222						
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)							Fan System Allowance (kW)[3]	1.13		Fan System Electrical Output (kW)		0.93

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	(N) AC-8	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	12	Economizer	NA: Altered packaged AC or HP <54 kBtu/h
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			100			371		Manufacturer provided				0.93
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			222						
			Gas heat			100			93						
			Hydronic/DX cooling coil or heat pump coil			100			222						
			Supply Fan System			100			222						
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)							Fan System Allowance (kW)[3]	1.13		Fan System Electrical Output (kW)		0.93

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	(N) AC-9	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,600	Site Elevation	12	Economizer	Differential Temperature
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			100			603		Manufacturer provided				1.42
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			361						
			Gas heat			100			151						
			Hydronic/DX cooling coil or heat pump coil			100			361						
			Economizer Return Damper			100			120						
			Supply Fan System			100			361						
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)							Fan System All

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	(N) AC-10	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	12	Economizer	NA: Altered packaged AC or HP <54 kBtu/h
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		371		Manufacturer provided		0.93
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		222				
			Gas heat	100		93				
			Hydronic/DX cooling coil or heat pump coil	100		222				
			Supply Fan System	100		222				
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]	1.13	Fan System Electrical Output (kW)		0.93

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	(N) FC-1 / HP-19	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	677	Site Elevation	12	Economizer	NA: Altered packaged AC or HP <54 kBtu/h
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		157		Manufacturer provided		0.08
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		94				
			Hydronic/DX cooling coil or heat pump coil	100		94				
			Supply Fan System	100		94				
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]	1	Fan System Electrical Output (kW)		0.08

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	(N) FC-2 / HP-2	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	942	Site Elevation	12	Economizer	NA: <=33 kBtu/h cooling
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		219		Manufacturer provided		0.08
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		131				
			Hydronic/DX cooling coil or heat pump coil	100		131				
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]	1	Fan System Electrical Output (kW)		0.08

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	(N) FC-3 / HP-3	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,118	Site Elevation	12	Economizer	NA: Special OA filtration
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		259		Manufacturer provided		0.08
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		155				
			Hydronic/DX cooling coil or heat pump coil	100		155				
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]	1	Fan System Electrical Output (kW)		0.08

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document.

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass
Fan Energy Index (FEI)										

01	02	03
Name or Item Tag	FEI Exception	FEI
(N) AC-6	None Applies	1
(N) AC-7	None Applies	1
(N) AC-8	None Applies	1
(N) AC-9	None Applies	1
(N) AC-10	None Applies	1
(N) FC-1 / HP-19	None Applies	1
(N) FC-2 / HP-2	None Applies	1
(N) FC-3 / HP-3	None Applies	1

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
(N) AC-6	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
(N) AC-7	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
(N) AC-8	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
(N) AC-9	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
(N) AC-10	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
(N) FC-1 / HP-19	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
(N) FC-2 / HP-2	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
(N) FC-3 / HP-3	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided

I. SYSTEM CONTROLS

[1]FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:\z24ref\nolink/\160.2, 160.3(a)3J, 170.2(s)4H, 170.2(q)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and oaflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04	05				06		07
System Name	(E) AC-1	System Design OA CFM Airflow[1]	1090	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[1]
							Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[4] 160.2(c)5D 160.2(c)5E 160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Open Office Zone	Office space	1719			257.8	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Office Zone	Office space	1476			221.4	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Hallway Zone	Corridor	440			66	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				545	18	Ventilation for this System Complies?	Yes

04	05				06		07
System Name	(E) AC-2	System Design OA CFM Airflow[1]	1169	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[1]
							Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Toilet Zone	Toilet, public	217	3		0	210	435	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Office Zone	Office space	1423			213.4	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Office Zone	Office space	1104			165.6	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Lobby Zone	Main Entry Lobby	710			355	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				734	18	Ventilation for this System Complies?	Yes

04	05				06		07
System Name	(E) AC-3	System Design OA CFM Airflow[1]	882	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[1]
							Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Office Zone	Office space	1865			279.8	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Hallway Zone	Corridor	555			83.2	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Conference Zone	Conference/ meeting	313			156.5	0	0	DCV: Provided per §120.1(d)4
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				520	18	Ventilation for this System Complies?	Yes

04	05				06		07
System Name	(E) AC-4.1	System Design OA CFM Airflow[1]	344	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[1]
							Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Hall Zone	Corridor	1000			150	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Office Zone	Office space	1016			152.4	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Office Zone	Office space	280			42	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				344	18	Ventilation for this System Complies?	Yes

J. VENTILATION AND INDOOR AIR QUALITY

04	05				06		07
System Name	(E) AC-4.2	System Design OA CFM Airflow[1]	303	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[1]
							Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Hall Zone	Corridor	806			120.9	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Office Zone	Office space	689			103.4	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Office Zone	Office space	524			78.6	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				303	18	Ventilation for this System Complies?	Yes

04	05				06		07
System Name	(E) AC-4.3	System Design OA CFM Airflow[1]	581	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[1]
							Provided
08	09	10	11	12	13	14	15	16

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Break Zone	Break room	606			303	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Office Zone	Office space	455			68.2	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Storage Zone	Office space	163			24.5	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Hall Zone	Corridor	880			132	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
Office Zone	Office space	356			53.4	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				581	18	Ventilation for this System Complies?	Yes

04	05				06		07
System Name	(N) AC-6	System Design OA CFM Airflow[1]	126	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[1]
							Provided

J. VENTILATION AND INDOOR AIR QUALITY

08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Office Zone	Office space	420			63	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				63	18	Ventilation for this System Complies?	Yes

04	05				06		07
System Name	(N) AC-7	System Design OA CFM Airflow[1]	253	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[1]
							Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Office Zone	Office space	842			126.3	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				126	18	Ventilation for this System Complies?	Yes

04	05				06		07
System Name	(N) AC-8	System Design OA CFM Airflow[1]	322	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[1]
							Provided

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE **NRCC-MCH-E**
Project Name: Port of Stock

J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07
System Name	(N) FC-1 / HP-19	System Design OA CFM Airflow[1]		228	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[5] 160.2(c)5D 160.2(c)5E 160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Conference Zone	Conference/ meeting	456			228	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				228	18	Ventilation for this System Complies?	Yes

04		05			06			07
System Name	(N) FC-2 / HP-2	System Design OA CFM Airflow[1]		303	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[5] 160.2(c)5D 160.2(c)5E 160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Conference Zone	Conference/ meeting	606			303	0	303	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				303	18	Ventilation for this System Complies?	Yes

J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07
System Name	(N) FC-3 / HP-3	System Design OA CFM Airflow[1]		312	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[5] 160.2(c)5D 160.2(c)5E 160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Conference Zone	Conference/ meeting	625			312.5	0	312	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				312	18	Ventilation for this System Complies?	Yes

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*

[2] *Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*

[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*

[4] *See Standards Tables 120.1-A and 120.1-B.*

[5] *For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.*

[6] *120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:		(E) AC-1	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No
			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A
18		All ductwork is an extension of an existing duct system
19		Ductwork serving individual dwelling unit
20		< 25 ft of new or replacement space conditioning ducts installed
21	R-4.2	Duct Insulation R-value
22		
23		

The answers to the questions below apply to the following duct systems: (E) AC-3 **NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems? No

L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-4.2	Duct Insulation R-value		
22				
23				

The answers to the questions below apply to the following duct systems: (N) AC-6 **NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems? No

L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-4.2	Duct Insulation R-value		
22				
23				

The answers to the questions below apply to the following duct systems: (N) AC-7 **NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems? No

L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-4.2	Duct Insulation R-value		
22				
23				

The answers to the questions below apply to the following duct systems: (N) AC-8 **NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems? No

L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-4.2	Duct Insulation R-value		
22				
23				

The answers to the questions below apply to the following duct systems: (N) AC-9 **NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems? No

L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-4.2	Duct Insulation R-value		
22				
23				

The answers to the questions below apply to the following duct systems: (N) AC-10 **NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems? No

L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-4.2	Duct Insulation R-value		
22				
23				

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	48NLLB0300403D; 48FEGA05A2M6; 48FEGA05A2M6; 48FEDM08A2M6; 48FEGA05A2M6; AUUH24KUAS / AOUH24KUAS1; AUUH30KUAS & AOUH30KUAS1; AUUH36KUAS & AOUH36KUAS1;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	48NLLB0300403D; 48FEGA05A2M6; 48FEGA05A2M6; 48FEDM08A2M6; 48FEGA05A2M6; AUUH24KUAS / AOUH24KUAS1; AUUH30KUAS & AOUH30KUAS1; AUUH36KUAS & AOUH36KUAS1;
NRCA-MCH-05-A - Air Economizer Controls	48FEDM08A2M6;
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to 120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	48FEGA05A2M6;

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-MCH-11-A Automatic Demand Shed Controls	48NLLB0300403D; 48FEGA05A2M6; 48FEGA05A2M6; 48FEDM08A2M6; 48FEGA05A2M6; AUUH24KUAS / AOUH24KUAS1; AUUH30KUAS & AOUH30KUAS1; AUUH36KUAS & AOUH36KUAS1;
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	48FEDM08A2M6;
NRCA-MCH-16-A Supply Air Temperature Reset Controls	48NLLB0300403D; 48FEGA05A2M6; 48FEGA05A2M6; 48FEDM08A2M6; 48FEGA05A2M6; AUUH24KUAS / AOUH24KUAS1; AUUH30KUAS & AOUH30KUAS1; AUUH36KUAS & AOUH36KUAS1;
NRCA-MCH-18-A Energy Management Control Systems	48NLLB0300403D; 48FEGA05A2M6; 48FEGA05A2M6; 48FEDM08A2M6; 48FEGA05A2M6; AUUH24KUAS / AOUH24KUAS1; AUUH30KUAS & AOUH30KUAS1; AUUH36KUAS & AOUH36KUAS1;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location: M-Sheets

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jason Van Alst	Documentation Author Signature: Jason Van Alst
Company: ALEXANDER SCHEFLO & ASSOCIATES	Signature Date: 08-08-25
Address: 2926 Pacific Avenue	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Stockton CA 95204	Phone: 209-948-9761

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Mitch Scheflo	Responsible Designer Signature: Mitch Scheflo
Company: Alexander Scheflo & Associates, Inc.	Date Signed: 2025-08-08
Address: 2926 Pacific Avenue	License: M035588
City/State/Zip: Stockton CA 95204	Phone: 209-948-9761

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	02	Climate Zone	12
03	Occupancy Types Within Project (select all that apply):				

● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03
My project consists of (check all that apply):	System Type[1,2]	System Components
☒ New system (DHW system being installed for the first time)	Individual System (serving nonresidential spaces)	☒ Equipment ☒ Distribution ☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment ☐ Distribution ☐ Controls

[1] *FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*

[2] *Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.*

[3] *DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

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Port of Stockton
Building 315 Alteration - Phase (2)
315 Fyffe Ave.
Stockton, CA 95203

WMB Project No. 19-095

PUBLISH HISTORY:

⚠	DATE	PURPOSE
	10.08.25	INITIAL SUBMITTAL
1	10.29.25	COORDINATION
2	12.12.25	PLAN CHECK #1
4	08.31.26	BID SET

ENERGY COMPLIANCE

T24.4

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E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03		04			05			06	
System Name	ULG2PDV50H503N	Exception to 140.5(c)/ 170.2(d)3			☐	Gas Service Water Heating System >= 1MMBtu/h[1]	Capacity-weighted Average Efficiency %		
07	08	09	10		11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
ULG2PDV 50H503N	Commercial Gas Hot Water Supply Boilers	48	50,000	FHR >=75	0.68	0.63	UEF		

[1]*FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft^2 and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft^2 per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity (dr gte/) 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jason Van Alst	Documentation Author Signature:
Company: ALEXANDER SCHEFLO & ASSOCIATES	Signature Date: 2025-08-08
Address: 2926 Pacific Avenue	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Stockton CA 95204	Phone: 209-948-9761

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Mitch Scheflo	Responsible Designer Signature:
Company: Alexander Scheflo & Associates, Inc.	Date Signed: 2025-08-08
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ENERGY COMPLIANCE

T24.5

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260500 ELECTRICAL WORK FOR COMMON RESULTS:

1. ELECTRICAL INSTALLATION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, INCLUDING THE FOLLOWING:
TITLE 24, CCR, PART 2, 2022 CBC
TITLE 24, CCR, PART 3, 2022 CEC
TITLE 24, CCR, PART 4, 2022 CMC
TITLE 24, CCR, PART 9, 2022 CFC
TITLE 24, CCR, PART 6, 2022 CALIFORNIA ENERGY CODE
TITLE 24, CCR, PART 11, 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
ALL APPLICABLE LOCAL CODES

2. CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, LICENSES, ETC. REQUIRED TO CARRY ON AND COMPLETE THE WORK.

3. PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR ANY REASONABLE INCIDENTAL TO PROPER EXECUTION AND COMPLETION OF ALL "ELECTRICAL WORK" WHETHER SPECIFICALLY MENTIONED OR NOT; ALL AS INDICATED, SPECIFIED HEREIN, AND/OR IMPLIED THEREBY TO CARRY OUT THE APPARENT INTENT THEREOF.

4. ALL MATERIALS SHALL BE NEW AND LISTED WITH THE UNDERWRITERS' LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.

5. ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND INSTALLING HIS WORK TO AVOID INTERFERENCE WITH OTHER TRADES.

6. ALL ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER SHALL BE LISTED FOR EXTERIOR USE.

7. ALL U.L. LISTED EQUIPMENT SHALL BE INSTALLED AS PER THEIR LISTING OR LABELING.

8. IN LOCATIONS WHERE ELECTRICAL EQUIPMENT WOULD BE EXPOSED TO PHYSICAL DAMAGE, ENCLOSURES OR GUARDS SHALL BE SO ARRANGED AND OF SUCH STRENGTH AS TO PREVENT SUCH DAMAGE.

9. CONFLICTS BETWEEN SPECIFICATIONS AND PLANS:

a. ANY CONFLICT BETWEEN ELECTRICAL SPECIFICATIONS AND ELECTRICAL PLANS; OR BETWEEN ELECTRICAL PLANS AND PLANS OF ANOTHER DISCIPLINE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND A RESOLUTION RECEIVED PRIOR TO PROCUREMENT OR INSTALLATION OF THE ITEM IN QUESTION.

b. IF THE CONTRACTOR PROCEEDS WITH THE WORK WITHOUT RECEIVING ANY RESOLUTION TO THE CONFLICT HE/SHE DOES SO AT HIS/HER OWN RISK AND SHALL RECTIFY THE WORK TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER.

260500.01 HVAC SYSTEMS:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS OF ALL HVAC UNITS, DISCONNECTS AND DEVICES IN FIELD. COORDINATE ROOF PENETRATIONS FOR DISCONNECTS AND WEATHERPROOF OUTLETS WITH ELECTRICAL CONNECTION POINTS ON THE UNITS TO KEEP FLEXIBLE CONDUIT LENGTH TO A MINIMUM (36" MAXIMUM). VERIFY AND CONFIRM THE ACTUAL MOUNTING LOCATION ON THE HVAC UNIT FOR THE DISCONNECT. ALL SERVICING OUTLETS ON THE ROOF OR OUTDOORS FOR HVAC UNITS SHALL BE WP/GFI.

2. THE RATING OF THE DISCONNECT SHALL BE SUCH AS TO ENABLE THE LARGEST FUSE SIZE ON THE UNIT NAMEPLATE TO BE INSTALLED IN THE DISCONNECT. PROVIDE FUSES OF THIS RATING.

3. FURNISH AND INSTALL ALL LINE VOLTAGE CONDUITS AND LINE VOLTAGE WIRING (LOW VOLTAGE CONDUITS AND WIRING BY MECHANICAL) TO HVAC EQUIPMENT AND ASSOCIATED CONTROLS AND DEVICES AS SHOWN ON THE ELECTRICAL AND MECHANICAL PLANS, UNLESS OTHERWISE NOTED.

4. RUN ALL CONDUITS FOR ROOFTOP EQUIPMENT WITHIN CEILING SPACE BELOW. SURFACE CONDUIT RUNS ON THE ROOF ARE NOT PERMITTED ON THIS PROJECT.

5. DISCONNECTS SHALL NOT BE USED AS THROUGH RACEWAYS FOR WIRING NOT DIRECTLY SERVING THE DISCONNECTS. SERVICING OUTLETS SHALL NOT BE MOUNTED ON DISCONNECTS.

260500.02 SUBMITTALS:

PROVIDE THE FOLLOWING SUBMITTALS FOR REVIEW AND APPROVAL.

1. EACH SHALL BE SUBMITTED SEPARATELY TO AVOID DELAYS IN THE REVIEW OF ONE SUBMITTAL IN HOLDING UP REVIEW OF THE REMAINDER.

a. LIGHTING CONTROL PANEL
b. LIGHTING CONTROLS
c. PANEL BOARDS
d. BASIC ELECTRICAL MATERIALS
e. LIGHT FIXTURES

260526 GROUNDING:

1. GROUND AND BOND ALL EQUIPMENT AS REQUIRED BY GOVERNING CODES AND SPECIFICALLY INCLUDING SWITCHBOARD, PANELBOARDS, MOTOR CASES, METAL PIPING SYSTEMS, STRUCTURAL STEEL, ETC.

2. PROVIDE GROUND WIRES IN ALL FEEDERS AND BRANCH CIRCUITS, SIZE PER CEC TABLE 250.122

3. ALL GROUND WIRES SHALL BE INSULATED GROUND WIRES.

260529 INSTALLATION OF SUPPORT SYSTEMS

1. RACEWAYS, CABLE ASSEMBLIES, BOXES, CABINETS, AND FITTINGS SHALL BE SECURELY FASTENED IN PLACE PER CEC ARTICLE 300.11. SUPPORT WIRES THAT DO NOT PROVIDE SECURE SUPPORT SHALL NOT BE PERMITTED AS THE SOLE SUPPORT. SUPPORT WIRES AND ASSOCIATED FITTINGS THAT PROVIDE SECURE SUPPORT AND THAT ARE INSTALLED IN ADDITION TO THE CEILING GRID SUPPORT WIRES SHALL BE PERMITTED AS THE SOLE SUPPORT. WHERE INDEPENDENT SUPPORT WIRE ARE USED, THEY SHALL BE SECURED AT BOTH ENDS. CABLES AND RACEWAYS SHALL NOT BE SUPPORTED BY CEILING GRIDS.

2. FURNISH ALL NECESSARY FOUNDATIONS, SUPPORTS, BACKING, ETC., FOR ALL ELECTRICAL ENCLOSURES, CONDUITS AND EQUIPMENT.

3. ATTACH ALL BOXES, CABINETS, ETC. TO WOOD WITH WOOD OR LAG SCREWS, TO METAL WITH MACHINE SCREWS OR BOLTS AND TO CONCRETE WITH EXPANSION ANCHORS AND MACHINE SCREWS OR BOLTS.

4. RIGID STEEL CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 10 FT, ELECTRICAL METALLIC TUBING AT INTERVALS NOT GREATER THAN 5 FT.

5. A SUPPORT SHALL BE PROVIDED NOT MORE THAN 3 FT. FROM ANY CHANGE IN DIRECTION. ADDITIONAL SUPPORTS TO THOSE SPECIFIED ABOVE SHALL BE INSTALLED WHERE REQUIRED TO SUIT JOB CONDITIONS AND TO PROVIDE A SECURE INSTALLATION. ALL HANGERS AND SUPPORTS SHALL BE THE PRODUCTS OF ONE MANUFACTURER.

260533. PULL OR JUNCTION BOXES:

1. INSTALL WHERE INDICATED, OR AS REQUIRED BY CODE, PULL BOXES AND JUNCTION BOXES OF SUFFICIENT SIZE AND CAPACITY TO FACILITATE ALL WIRING. BOXES SHALL BE SIZED TO PROPERLY ACCOMMODATE ALL CONDUCTORS ENTERING SAME.

2. BOXES SHALL BE OF THE SHAPE AND SIZE BEST SUITED FOR THE PARTICULAR APPLICATION AND SHALL BE SUPPORTED DIRECTLY TO STRUCTURAL MEMBERS, FRAMING OR BLOCKING BY MEANS OF SCREWS, ANCHORS, BOLTS OR EMBEDDED IN MASONRY.

A. SWITCH AND RECEPTACLE BOX SHALL BE ONE PIECE DRAWN OR STAMPED STEEL BOXES MINIMUM SIZE SHALL BE FOUR INCHES (4") SQUARE. BOXES SHALL BE FITTED WITH FLUSH DEVICE COVERS, PLASTER RINGS, OR TILE SWITCH RINGS IN MASONRY IN AREA WHERE EXPOSED WIRING IS PERMISSIBLE, BOXES SHALL BEFITTED WITH SURFACE TYPE COVERS.

B. LIGHTING OUTLETS SHALL BE FOUR INCHES (4")OCTAGON, MINIMUM.

C. FLOOR BOXES: SHALL BE SINGLE SERVICE OR MULTI-SERVICE AS NOTED ON PLANS. BOXES SHALL BE FULLY ADJUSTABLE BEFORE AND AFTER CONCRETE POUR. BOXES SHALL BE FURNISHED WITH ALL REQUIRED ACCESSORIES FOR A COMPLETE AND WORKING INSTALLATION, INCLUDING DEVICE MOUNTING BRACKETS, BOTH POWER AND COMMUNICATIONS, TRIM RING/COVERPLATE OR FLOOR PORT ACTIVATION KIT. PROVIDE POWER DEVICES AND TERMINATIONS. SINGLE SERVICE BOX SHALL BE HUBBELL, NON-METALLIC, CONCRETE FLOOR BOX TYPE PFB1 WITH FLUSH BRASS ROUND COVERPLATE AS HUBBELL #S3925, FLANGE AS HUBBELL #S3082 AND DUPLEX 120V, 15A OUTLET. MULTI-SERVICE FLOOR BOXES SHALL BE AS HUBBELL SYSTEM ONE AS FOLLOWS:

a) ON-GRADE-CASTIRON #S1CFB
b) UPPER CONCRETE FLOORS - STEEL #S1SFB
c) AV BOX - #S1SFBAV
d) NON-METALLIC 1 #S1PFB PROVIDE COVERPLATE AND FLANGE, FINISH PER ARCHITECT. PROVIDE MINIMUM (1) DUPLEX OUTLET AND A 4-PORT MULTISERVICE COMMUNICATIONS FRAMES. VERIFY EXACT REQUIREMENT WITH OWNER PRIOR TO PROCUREMENT

D. WEATHERPROOF BOXES SHALL BE APPLETON FD SERIES AND FITTED WITH GASKETED CAST COVERS.

E. VOICE/DATA OUTLET BOXES SHALL BE 4_11/16"SQ.x2_1/8" DEEP MINIMUM, FITTED WITH PLASTER RINGS.

F. BOXES FOR SPECIAL EQUIPMENT SHALL BE SUITABLE FOR THE PARTICULAR EQUIPMENT.

G. BOXES SHALL BE LOCATED AND PLACED ACCORDING TO ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.

260550. WIRING METHODS: LINE VOLTAGE SYSTEMS (120V AND ABOVE):

1. ALL WIRING SHALL BE INSTALLED IN CONDUITS. CONDUITS SHALL BE RUN CONCEALED IN WALLS AND CEILINGS WHERE FEASIBLE. ALL CONDUITS INSTALLED SURFACE ON WALL SHALL BE PAINTED TO MATCH WALL FINISH. MOUNT EXTERIOR CONDUITS ON WALL ON GALVANIZED UNISTRUTS. ALL SURFACE CONDUIT INSTALLATION/ RUNS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.

2. ALL CONDUITS RUN WITHIN INTERIOR FINISHED SPACES SUCH AS OFFICES, BREAKROOM, RESTROOM ETC. SHALL BE RUN CONCEALED.

3. ALL CONDUITS RUN IN DEDICATED ELECTRICAL AND MECHANICAL ROOMS SHALL BE RUN EXPOSED.

4. MINIMUM CONDUIT SIZE SHALL BE 1/2" ABOVE GRADE AND 3/4" UNDERGROUND.

5. MINIMUM ACCEPTABLE CONDUITS ARE:

A. GALVANIZED RIGID STEEL - FOR USE ON:

(1) EXTERIOR WALL SURFACES.

B. GALVANIZED STEEL EMT FOR USE:

(1) CONCEALED IN INDOOR FINISHED SPACES.
(2) EXPOSED INSIDE ELECTRICAL & MECHANICAL ROOMS.

C. LIQUID TIGHT STEEL FLEX:

(1) FOR FINAL CONNECTION TO OUTDOOR EQUIPMENT. LENGTH SHALL NOT EXCEED 36".

D. FLEXIBLE STEEL CONDUIT:

(1) FOR INDOOR FINAL CONNECTION TO RECESSED LIGHT FIXTURES. LENGTH SHALL NOT EXCEED 72".
(2) FOR INDOOR FINAL CONNECTION TO HVAC EQUIPMENT. LENGTH SHALL NOT EXCEED 36".

E. "PVC" SCHEDULE 40:

(1) FOR CONDUITS RUN UNDERGROUND AND FOR UNDER BUILDING SLAB.
(2) CONDUIT STUBUPS THROUGH THE FLOOR OR GRADE SHALL BE IN PVC WRAPPED RIGID STEEL CONDUIT. PVC WRAPPING SHALL EXTEND 6" ABOVE FINISHED FLOOR OR GRADE.
(3) NOT PERMITTED FOR WIRING ABOVE FINISHED FLOOR INSIDE BUILDINGS.

F. ALUMINUM CONDUITS, IMC CONDUITS OR ALUMINUM FITTINGS ARE NOT APPROVED FOR USE ON THIS PROJECT.
G. ALL CONDUIT FITTINGS SHALL BE MALLEABLE IRON/STEEL.

H. COUPLING:

(1) EMT COUPLING - APPLETON TWC-CS SERIES
(2) EMT CONNECTOR - APPLETON TW-CSI SERIES
(3) FLEX CONDUIT CONNECTOR - T&B "TITE BITE", INSULATED
(4) LIQUID TIGHT FLEX CONDUIT CONNECTOR - APPLETON "STB" SERIES UP TO 2", "ST" SERIES OVER 2".

I. RIGID STEEL CONDUIT CONNECTED TO BOXES AND CABINETS SHALL BE FITTED WITH TWO LOCKNUTS AND INSULATING BUSHING, OA "A" SERIES. PROVIDE GROUNDING BUSHING OZ "BL" SERIES WHERE LOCKNUTS AND BUSHING IS NOT USED. CONDUITS CONNECTED TO BOXES EXPOSED TO WEATHER/MOISTURE SHALL BE FITTED WITH WATERTIGHT SEALING HUBS OF STEEL OR MALLEABLE IRON WITH SEALING RING AND INSULATED THREAT, T & B 370 SERIES.

J. TYPE NM AND NMC CABLES SHALL NOT BE USED ON THIS PROJECT.

K. THE PROJECT DRAWINGS ARE LAID OUT USING SOLID CONDUITS AND CABLES PULLED THROUGH SUCH CONDUITS. MC CABLES MAY BE UTILIZED AS DESCRIBED BELOW, WITH RESTRICTIONS NOTED.

(1) PRIOR APPROVAL OF OWNER/ARCHITECT OR ENGINEER REQUIRED.

(2) MC CABLES SHALL BE AS MANUFACTURED BY SOUTHWIRE TYPE EZ-MC DURACLAD TYPE WITH LIGHT WEIGHT STEEL ARMOR AND INSULATED GREEN GROUNDING CONDUCTORS OR APPROVED EQUAL.

(3) SHALL BE USED FOR BRANCH CIRCUITS ONLY AS NOTED BELOW.

(a) CANNOT BE USED ANYWHERE EXPOSED.
(b) LIGHTING: VERTICAL DROPS IN WALL FOR LIGHT SWITCHES FORM JBOX IN CEILING. HORIZONTAL RUNS IN CEILING SHALL BE IN SOLID STEEL CONDUITS.
(c) POWER RECEPTACLES:

(A) FOR UNDERGROUND HOMERUNS: SOLID CONDUIT VERTICAL RISER IN WALL FROM UNDERGROUND CONDUIT TO FIRST RECEPTACLE JBOX. THEN HORIZONTAL RUNS WITHIN WALLS TO OTHER RECEPTACLE BOXES IN MC CABLE.

(B) FOR OVERHEAD HOMERUNS: VERTICAL DROPS FROM JBOX IN CEILING THEN HORIZONTAL RUNS WITHIN WALLS TO OTHER RECEPTACLES. HORIZONTAL RUNS IN CEILING SHALL BE IN SOLID STEEL CONDUITS.

(d) NO OTHER USE IS PERMITTED WITHOUT SPECIFIC WRITTEN APPROVAL OF THE ARCHITECT OR ENGINEER.

(4) ALL FITTINGS AND TERMINATIONS FOR THE MC CABLING SYSTEM SHALL BE METAL AND SUITABLE AND LISTED FOR SUCH USE.

(5) ALL SUPPORTS, ATTACHMENTS SPACING SHALL BE PER CEC 330.30.

(6) FOR MULTI-WIRE BRANCH CIRCUITS SUCH CABLES SHALL HAVE MULTIPLE NEUTRALS, ONE FOR EACH CIRCUIT.

6. CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE THHN/THWN UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

7. ALL DEVICES, CONDUITS, RACEWAYS AND CABLES SHOWN ARE NEW TO BE PROVIDED UNLESS OTHERWISE NOTED.

8. FLASH AND COUNTERFLASH ALL ITEMS PASSING THROUGH THE ROOF.

9. THE OWNER RESERVES THE RIGHT TO RELOCATE ALL LIGHTING, OUTLETS AND SWITCHES BEFORE THEY ARE ROUGHED IN AT NO EXTRA COST.

10. SEPARATION OF WIRING OF DIFFERENT VOLTAGE CLASSIFICATIONS:

A. WIRING FOR DIFFERENT VOLTAGE CLASSIFICATIONS SHALL BE INSTALLED IN ENTIRELY SEPARATE RACEWAYS/CONDUITS SYSTEM AND ENCLOSURES/BOXES.

CLASSIFICATION 1 - 0 TO 30V
CLASSIFICATION 2 - 100 TO 250V
CLASSIFICATION 3 - 251 TO 500V

B. PARTICULAR ATTENTION SHALL BE PAID TO THE WIRING FOR:

1. ROOF TOP CONVENIENCE OUTLETS FOR SERVICING ROOF TOP EQUIPMENT.

2. LINE VOLTAGE CONTROLS FOR ROOF TOP HVAC AND OTHER REQUIREMENTS.

C. DISCONNECTS SHALL NOT BE USED AS THROUGH RACEWAYS FOR WIRING NOT DIRECTLY SERVING THE DISCONNECTS. SERVICING OUTLETS SHALL NOT BE MOUNTED ON DISCONNECTS.

260551. INSTALLATION OF RACEWAYS AND FITTINGS:

1. CONCEAL RACEWAYS WITHIN CEILINGS, WALLS, AND FLOORS EXCEPT WHERE EXPOSED RACEWAYS ARE SPECIFICALLY PERMITTED.

2. WHERE CONDUIT IS ALLOWED TO BE EXPOSED, INSTALL THE CONDUIT PARALLEL WITH OR AT RIGHT ANGLES TO STRUCTURAL MEMBERS, WALLS, AND LINES OF THE BUILDING.

3. INSTALL WHERE INDICATED, OR AS REQUIRED BY CODE, PULLBOXES AND JUNCTION BOXES OF SUFFICIENT SIZE TO FACILITATE WIRING. BOXES SHALL BE SIZED TO PROPERLY ACCOMMODATE ALL CONDUCTORS ENTERING SAME.

4. DO NOT INSTALL CONDUIT OR TUBING WHICH HAS BEEN CRUSHED OR DEFORMED.

5. RUN CONDUCTORS OF SAME CIRCUIT IN SAME CONDUIT. RUN CONDUCTORS OF DIFFERENT VOLTAGE SYSTEMS IN SEPARATE CONDUITS.

6. INSTALL NO CONDUCTORS UNTIL WORK WHICH MIGHT CAUSE DAMAGE TO SUCH CONDUCTORS OR THE CONDUIT HAS BEEN COMPLETED.

7. KEEP ALL CONDUITS AT LEAST SIX INCHES AWAY FROM THE COVERING ON HOT WATER OR STEAM PIPES.

8. CAP RACEWAY ENDS DURING CONSTRUCTION. CLEAN OR REPLACE CONDUITS IN WHICH WATER OR FOREIGN MATTER HAVE ACCUMULATED, TO THE SATISFACTION OF THE ARCHITECT.

9. CONDUITS SHALL BE SUPPORTED WITH STRAPS, WITH GALVANIZED MALLEABLE SPLIT RING AND ROD FOR INDIVIDUAL RUNS OR WITH KINDORF OR UNISTRUT CHANNEL SUPPORTS FOR MULTIPLE RUNS. DISTANCE BETWEEN SUPPORTS SHALL NOT EXCEED 10 FEET. CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF ONE ANOTHER.

10. CONDUITS CONNECTED TO BOXES AND CABINETS SHALL BE FITTED WITH TWO LOCKNUTS AND INSULATED BUSHING, OA "A" SERIES.

11. CONDUITS NOT CONNECTED WITH LOCKNUTS AND BUSHINGS SHALL BE FITTED WITH GROUNDING BUSHING, OZ "BL" SERIES, U. L. APPROVED AND BONDED.

12. CONDUIT STRAPS FOR INDIVIDUAL RUNS SHALL BE SECURED BY TOGGLE BOLTS ON HOLLOW MASONRY, EXPANSION ANCHORS ON SOLID CONCRETE OR MASONRY, MACHINE SCREWS OR BOLTS ON METAL SURFACES AND WOOD SCREWS ON WOOD CONSTRUCTION. THE USE OF NAILS TO ANCHOR STRAPS ON WOOD CONSTRUCTION IS PROHIBITED. STRAPS SHALL BE TWO HOLE MALLEABLE IRON OR SNAP-TYPE STEEL WITH RIBBED BACK, GALVANIZED OR CADMIUM PLATED.

13. PLACEMENT OF ALL BOXES SHALL BE GOVERNED BY APPLICABLE ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.

14. CONDUIT FITTINGS: EXCEPT WHERE OTHERWISE NOTED, CONDUIT FITTINGS SHALL BE APPLETON OR APPROVED EQUAL. UNILETS SHALL BE MALLEABLE IRON AND FITTED WITH COVERS AND GASKETS.

15. TELEPHONE AND SIGNAL CONDUIT BENDS WHERE REQUIRED SHALL HAVE A RADIUS OF TEN TIMES THE CONDUIT TRADE SIZE.

16. PROVIDE PULL TAPE IN ALL EMPTY CONDUITS.

260551.01. PENETRATIONS OF FIRE-RATED ASSEMBLIES:

1. PENETRATIONS OF PIPES, CONDUITS, ETC., IN WALLS AND CEILINGS REQUIRING PROTECTED OPENINGS SHALL BE FIRESTOPPED IN ACCORDANCE WITH CBC SECTION 714. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY AUTHORITY HAVING JURISDICTION.

2. THROUGH PENETRATIONS AND MEMBRANE PENETRATIONS OF FIRE-RESISTANCE RATED WALLS SHALL COMPLY WITH CBC 714.4.

3. PENETRATIONS OF FIRE RESISTANCE RATED FLOOR, FLOOR/CEILING ASSEMBLY OR THE CEILING MEMBRANE OF A ROOF/CEILING ASSEMBLY SHALL COMPLY WITH CBC 714.5.

4. ALL ELECTRICAL BOXES INSTALLED IN A FIRE-RESISTIVE SEPARATION SHALL BE AN "APPROVED BOX". AN "APPROVED BOX" IS AN ALL STEEL ELECTRICAL BOX WHICH IS UL LISTED FOR INSTALLATION IN A FIRE-RESISTIVE SEPARATION.

5. ELECTRICAL BOXES, INCLUDING BOXES FOR RECEPTACLES, IN RATED WALLS SHALL HAVE A MINIMUM OF 24" HORIZONTAL SEPARATION FROM THOSE IN ADJACENT ROOMS AT THE OTHER SIDE OF WALL IN ACCORDANCE WITH C.B.C. SECTION 714.4.2. IN CASE SUCH HORIZONTAL SEPARATION IS NOT POSSIBLE EACH BOX SHALL BE PROTECTED BY A LISTED FIRE-STOPPING PUTTY PAD AND BOX SHALL BE PROVIDED WITH A METAL COVERPLATE AND NOT PLASTIC OR NYLON.

6. WHERE CONDUIT SLEEVE IS USED FOR THE PROTECTION OF WIRING PENETRATIONS, UL LISTED FIRESTOP COMPOUND SHALL BE USED TO SEAL THE OPENING AROUND THE CONDUIT AND TO SEAL THE CONDUIT ENDS AFTER THE CABLE IS INSTALLED.

7. WHERE A CABLE OR A GROUP OF CABLES PENETRATES MEMBRANE OR CONTINUOUS BLOCKING, UL LISTED FIRESTOP COMPOUND SHALL BE USED TO SEAL THE OPENING AROUND THE CABLES.

8. SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE-RATED WALLS AND CEILING.

260553. NAMEPLATES & IDENTIFICATION:

1. INSTALL ENGRAVED NAMEPLATES FOR EACH PANELBOARD, CABINET, DISCONNECT, ETC. NAMEPLATES SHALL BE SECURELY FASTENED TO THE EQUIPMENT WITH #4 PHILLIPS ROUND HEAD CADMIUM PLATED SELF-TAPPING SCREWS, BRASS BOLT.

2. PROVIDE CIRCUIT LABEL INDICATING PANEL AND CIRCUIT NUMBER ON EACH COVERPLATE FOR EACH RECEPTACLE AND LIGHT SWITCH, MOTION SENSOR SWITCH. SUCH LABEL SHALL BE SELF ADHESIVE WHITE TAPE WITH BLACK LETTERS MADE ON A LABEL MAKER.

3. ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES PER CALIFORNIA ENERGY CODE SECTION 130.5(d)(3).

260573. ARC FLASH HAZARDS:

1. PROVIDE WARNING LABEL ON ELECTRICAL EQUIPMENT OF POSSIBLE ARC FLASH HAZARDS PER C.E.C. 110.16.

260800. TESTING:

1. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE FREE FROM SHORT CIRCUITS AND IMPROPER GROUNDS. TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE ANY FIXTURES OR EQUIPMENT ARE CONNECTED AND WHERE SUCH TESTS INDICATE FAULTY INSULATION OR OTHER DEFECTS, THEY SHALL BE LOCATED, REPAIRED AND RETESTED AT THE CONTRACTOR'S EXPENSE. PROVIDE ALL INSTRUMENTS TO MAKE SUCH TESTS.

2. DEMONSTRATE TO THE OWNER AND THE ARCHITECT, THAT THE ENTIRE INSTALLATION IS COMPLETE, IN PROPER OPERATING CONDITION AND THAT THE CONTRACT HAS BEEN PROPERLY AND FULLY EXECUTED.

260943. INTERIOR LIGHTING CONTROL SYSTEM:

1. PROVIDE A COMPLETE AND FULLY OPERATIONAL INTERIOR LIGHTING CONTROL SYSTEM FOR INTERIOR LIGHTING AS SPECIFIED HEREIN AND SHOWN ON THE DRAWINGS.

2. THE COMPLETE SYSTEM, INCLUDING ALL DEVICES SHALL BE IN COMPLIANCE WITH THE 2022 CALIFORNIA ENERGY CODE.

3. THE COMPLETE SYSTEM SHALL BE AS MANUFACTURED BY NLIGHT, WATTSTOPPER, OR GREENGATE CONSISTING OF:

A. LUMINARIES WITH 0-10V DIMMING LED DRIVERS.
B. WALL DIMMER SWITCHES THAT COMMUNICATE THROUGH ROOM CONTROLLERS.
C. OCCUPANCY SENSORS THAT COMMUNICATE THROUGH ROOM CONTROLLERS.
D. WHERE LIGHT FIXTURES FALL UNDER THE PRIMARY AND SECONDARY DAYLIT ZONES AS DEFINED BY SECTION 130.1(d) AND THE TOTAL INSTALLED GENERAL LIGHTING POWER IN THE PRIMARY DAYLIT ZONE IS NOT LESS THAN 120W (EXCEPTION #1 TO SECTION 130.1(d)2) SUCH LIGHT FIXTURES SHALL BE PROVIDED WITH AUTOMATIC DAYLIGHTING CONTROLS IN ACCORDANCE WITH SECTION 130.1(d)(2)(D).

4. ALL SYSTEM COMPONENTS SHALL BE UL LISTED. ALL SYSTEM CONTROL COMPONENTS SHALL BE APPROVED BY THE CALIFORNIA ENERGY COMMISSION.

5. ALL EQUIPMENT AND ITEMS OF CONTROL SHALL BE INSTALLED AND WIRED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

6. PROVIDE WALL OCCUPANCY SENSOR LIGHT SWITCHES WHERE SO SHOWN ON PLANS. SUCH OCCUPANCY SENSOR SWITCHES SHALL BE SINGLE LEVEL AUTOMATIC "ON"/AUTOMATIC "OFF" AS SHOWN ON PLANS. SENSORS SHALL COMPLY WITH SECTION 110.9 OF THE ENERGY CODE.

7. THE SYSTEM SHALL AUTOMATICALLY SWITCH OFF ALL LIGHTS WHEN CONTROLLED SPACE BECOMES UNOCCUPIED AND SWITCH ON LIGHTS WHEN THE SPACE IS RE-OCCUPIED. ALL SENSORS SHALL BE PROVIDED WITH USER ADJUSTABLE TIME DELAY (15 SEC. TO 20 MINUTES) FOR "SWITCH-OFF" FUNCTION AND ADJUSTABLE SENSITIVITY.

8. LOW VOLTAGE WIRING IS NOT REQUIRED TO BE IN CONDUIT EXCEPT IN HARDLID CEILINGS WHERE SUCH WIRES SHALL BE RUN IN CONDUIT.

262417. PANEL BOARDS:

1. UNITS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED ON THE PANEL SCHEDULE. WITH THE NUMBER AND SIZE OF BREAKERS AS INDICATED ON THE PANEL SCHEDULE. SINGLE POLE, TWO POLE, AND THREE POLE BREAKERS SHALL BE BOLT-ON TYPE. MULTIPLE POLE BREAKERS SHALL HAVE COMMON INTERNAL TRIP CONNECTION. SINGLE POLE BREAKERS SHALL NOT BE TIED AT HANDLES TO FORM MULTIPLE POLE BREAKERS. THE PANEL DOORS SHALL BE DOOR-IN-DOOR CONSTRUCTION AND SHALL HAVE FLUSH TYPE LOCKS, ALL LOCKS SHALL BE KEYED ALIKE AND HAVE TYPEWRITTEN DIRECTORIES INDICATING FIXTURES, EQUIPMENT, OR OUTLETS SERVICE BY EACH BREAKER. PANELS SHALL HAVE COPPER BUSSING.

262726. WIRING DEVICES:

1. UNITS SHALL BE EQUAL TO THE DEVICES SET FORTH HEREIN, IN STANDARD COLORS (BROWN, WHITE, GREY, BEIGE OR IVORY) AS SELECTED BY THE ARCHITECT:

A. WIRING DEVICES	LEVITON #	HUBBELL #	P & S #
SINGLE POLE SWITCH, 15A	1201-2	HBL1201	PS15AC1
DOUBLE POLE SWITCH, 15A	1202-2	HBL1202	PS15AC2
THREE WAY SWITCH, 15A	1203-2	HBL1203	PS15AC3
DUPLEX CONV. OUTLET, 20A	5362	HBL5362	5362
DUPLEX CONV. GFI OUTLET, 20A	6899	GF15	2095L

2. THE CONTROLLED OUTLET SHALL HAVE PERMANENT UNIQUE MARKING PROVIDED BY THE MANUFACTURER OF THE RECEPTACLE.

3. THE MOUNTING HEIGHTS OF LIGHT SWITCHES, RECEPTACLES AND CONTROLS SHALL BE MAXIMUM 48" MEASURED TO THE TOP OF BOXES OR MINIMUM 16" TO THE BOTTOM OF BOXES. SEE "LEGEND" FOR ACTUAL MOUNTING HEIGHTS OF DEVICES. VERIFY HEIGHT WITH ARCHITECT WHERE AN ACTUAL MOUNTING HEIGHT IS NOT CALLED OUT ON PLANS.

4. SINGLE RECEPTACLE SERVED BY INDIVIDUAL 20A BRANCH CIRCUIT DEDICATED TO THE OUTLET SHALL BE 20A RATED PER CEC 210.21(B)(1). ALL OTHERS SHALL BE 15A RATED.

5. ALL 15A AND 20A, 120V OUTLETS IN KITCHEN SHALL BE GFCI PER CEC 210.8(B)(2). LOCATE SUCH OUTLETS SO THAT THEY ARE ACCESSIBLE AFTER APPLIANCES THAT ARE PLUGGED INTO THE OUTLETS ARE IN PLACE.

6. ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE WEATHERPROOF AND HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION.

7. 120V, 15A AND 20A RECEPTACLES ARE NOW SUBJECT TO CALIFORNIA ENERGY CODE, SECTION 130.5(d). ALL SUCH OUTLETS SHALL BE CONSIDERED AS UNCONTROLLED EXCEPT THOSE WHICH ARE SPECIFICALLY CALLED OUT ON THE PLANS AS CONTROLLED. SEE "CONTROLLED 120V RECEPTACLES" PARAGRAPH BELOW.

262726.01. CONTROLLED 120V RECEPTACLES:

1. CALIFORNIA ENERGY CODE, SECTION 130.5(d) NOW REQUIRES THAT BOTH CONTROLLED AND UNCONTROLLED 120V OUTLETS FOR PLUG LOADS BE PROVIDED IN THE FOLLOWING LOCATIONS:

A. EACH PRIVATE OFFICE.
B. EACH OPEN OFFICE AREA.
C. RECEPTION LOBBY.
D. CONFERENCE ROOM.
E. KITCHENETTE AND BREAK ROOM IN OFFICE SPACES.
F. COPY ROOM.

2. CIRCUITS SERVING CONTROLLED RECEPTACLES SHALL BE AUTOMATICALLY BE SHUT-OFF IN ACCORDANCE WITH SECTION 130.1(c)1.

3. PROVIDE A SPLITWIRED DUPLEX RECEPTACLE WITH ONE HALF CONTROLLED AND ONE HALF UNCONTROLLED DUPLEX RECEPTACLE AS SHOWN ON THE PLANS. THIS RECEPTACLE SHALL BE SPLIT DUPLEX OUTLET AS MANUFACTURED BY SAME MANUFACTURER AS THE OCCUPANCY LIGHTING SENSOR SYSTEM WITH A 15-AMP RELAY-SWITCHED OUTLET AND A 15-AMP CONSTANT POWER OUTLET.

262726.02. DEVICE PLATES:

1. ALL DEVICE PLATES FOR INDOOR USE SHALL BE NYLON.

2. ALL DEVICE BOXES WHICH ARE INSTALLED IN FIRE RATED WALL ASSEMBLY AND IS PROVIDED WITH A FIRE-STOPPING PUTTY PAD SHALL HAVE A BRUSHED STAINLESS STEEL COVERPLATE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PUTTY PAD.

3. DEVICE COVERS FOR SURFACE MOUNTED BOXES SHALL BE 1/2" RAISED STEEL PLATES.

4. DEVICE COVERS FOR DEVICES LOCATED IN DAMP LOCATIONS SHALL COMPLY WITH CEC 406.9(A).

5. DEVICE COVERS FOR DEVICES LOCATED IN WET LOCATIONS SHAL

283100 FIRE ALARM SYSTEM

A GENERAL REQUIREMENTS: THE CONTRACTOR SHALL FURNISH AND INSTALL AS DESCRIBED HEREIN, A EXPAND THE EXISTING FIRE ALARM SYSTEM, COMPLETE AND FULLY OPERATIONAL FIRE ALARM SYSTEM FOR THIS PROJECT..

1. THE SYSTEM AS SHOWN ON THE PLANS IS NOT A FULLY ENGINEERED SYSTEM AND SHALL BE TAKEN AS A MINIMUM REQUIREMENT, PARTLY PRESCRIPTIVE AND PARTLY PERFORMANCE TYPE. THE ELECTRICAL CONTRACTOR THROUGH HIS LICENSED FIRE ALARM SUBCONTRACTOR, SHALL BE RESPONSIBLE FOR AND PROVIDE A FULLY DESIGNED AND ENGINEERED FIRE ALARM SYSTEM FOR THIS BUILDING FOR THIS PROJECT. HE SHALL FURTHER INVESTIGATE ALL FIRE ALARM SYSTEM REQUIREMENTS WITH THE CITY FIRE & EMERGENCY SERVICES, MAKE SURE HE IS FAMILIAR WITH ALL THE REQUIREMENTS APPLICABLE TO THE PROJECT AND INCLUDE THEM IN HIS BID.

2. THE FIRE ALARM SYSTEM SHALL BE AN ELECTRICALLY SUPERVISED, BATTERY STANDBY, TWO WIRE CLASS B SYSTEM, SUPERVISED AGAINST OPENS, SHORTS AND GROUND FAULTS IN ALL EXTERNAL CIRCUITS AND CONTAIN ALL NECESSARY POWER SUPPLIES, BATTERIES, CHARGER, SIGNAL AND INITIATING CIRCUITS AND SILENCING SWITCH FOR A COMPLETE AND OPERATIONAL SYSTEM. THE CONTROL PANEL SHALL BE MICROPROCESSOR BASED WITH FULLY ADDRESSABLE INITIATION DEVICES.

3. THE FIRE ALARM SYSTEM SHALL BE UL CERTIFIED AND CONFORM TO ALL LOCAL AND STATE FIRE CODES WITH SPECIFIC REFERENCE TO CBC SECTION 422.6 AND CBC SECTION 907.2.2.1. THE BIDDER SHALL VERIFY ALL CITY FIRE DEPARTMENT REQUIREMENTS AND INCLUDE THEM IN THE BID WHETHER SPECIFICALLY MENTIONED HEREIN OR NOT. ALL EQUIPMENT SHALL HAVE BEEN APPROVED AND LISTED BY THE STATE FIRE MARSHAL.

4 THE SYSTEM SHALL BE MONITORED BY A UL CENTRAL STATION FOR THE LIFE OF THE BUILDING. UL CERTIFICATION IS REQUIRED AT FINAL INSPECTION.

5. ALL WORK SHALL BE CARRIED OUT BY A LICENSED FIRE ALARM SYSTEM CONTRACTOR.

6 PROVIDE WIRING NECESSARY TO PRODUCE A COMPLETE AND OPERATIONAL SYSTEM. MINIMUM WIRE SIZE SHALL BE AS FOLLOWS:

A DATA/INITIATION CIRCUIT: #18 FP.
B NOTIFICATION APPLIANCES: #12 THWN/THHN
C. MONITORED DEVICES: #14 THWN/THHN
D. 24V DC POWER: #14 THWN/THHN

7. COORDINATE WITH FIRE SPRINKLER SYSTEM CONTRACTOR AND PROVIDE ALL WIRING AND HOOKUPS OF WATER FLOW AND TAMPER SWITCHES, P.I.V. VALVE AND WATER BELL, BOTH LOW VOLTAGE AND 120 VOLTS, AS REQUIRED.

B. EQUIPMENT: SCOPE OF WORK/INSTALLATION:

1. AS A MINIMUM, THE SYSTEM SHALL CONSIST OF A SMART FIRE ALARM CONTROL PANEL, BOOSTER POWER SUPPLIES FOR NOTIFICATION CIRCUITS POWER (OR BUILT-IN TO THE FIRE ALARM PANEL), A DACT PANEL (SEPARATE OR BUILT-IN TO THE FIRE ALARM CONTROL PANEL), REMOTE ALARM ANNUNCIATOR (REMOTE TROUBLE UNIT IS NOT ACCEPTABLE), HORNS, STROBES, SMOKE DETECTORS, HEAT DETECTORS, HVAC UNIT AND SMOKE/FIRE DAMPER DUCT SMOKE DETECTORS, PULL STATIONS, COMPLETE WITH ALL OTHER REQUIRED ACCESSORIES, CONDUIT AND WIRING SYSTEM. VERIFY LOCATION OF REMOTE ANNUNCIATOR IN FIELD WITH OWNER AND ARCHITECT.

2 SYSTEM SHALL BE AS MANUFACTURED BY EST, SIEMENS, NOTIFIER OR EQUAL.

3. EXTERIOR HORNS.

4 INTERIOR HORNS, HORN/STROBE AND STROBES (ADA COMPLYING).

5 FULLY ADDRESSABLE SMOKE DETECTORS, HEAT DETECTORS AND PULL STATIONS.

6. REMOTE ALARM ANNUNCIATOR. VERIFY WITH CITY FIRE DEPARTMENT THE TYPE REQUIRED. PROVIDE AND LOCATE AS NEEDED.

7. ALL ASSOCIATED WIRING, MODULES, ACCESSORIES, ETC. AS REQUIRED TO MAKE THIS A COMPLETE AND FULLY OPERATIONAL FIRE ALARM SYSTEM.

C. AUDIBLES:

1. AUDIBLE DEVICES SHALL BE AT LEAST 15dBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75dBA AT 10 FT. OR MORE THAN 110dBA IN TOTAL, THROUGHOUT.

D. VISUALS:

1. VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH EVERY SECOND.

E. INITIATION SYSTEM:

1. THE INITIATION SYSTEM SHALL BE BASED ON A MANUAL TYPE WITH PULL STATIONS AT EVERY EXIT PER UFC 1007.3.3.1.

F. WIRING:

1. ALL WIRING SHALL BE INSTALLED IN CONDUIT. MINIMUM SIZE FOR CONDUIT SHALL BE 1/2" INDOORS AND 3/4" UNDERGROUND.

2. ALL CONDUITS INSTALLED UNDERGROUND AND ON EXTERIOR SURFACES OF BUILDINGS SHALL HAVE WATERTIGHT FITTINGS.

G. PENETRATIONS:

1. PENETRATIONS OF FIRE-RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, PART 2, CHAPTER 7, TITLE 24.

J. SUBMITTALS:

1. THE FIRE ALARM SYSTEM SUBCONTRACTOR SHALL SUBMIT COMPLETE DIMENSIONED AND SCALED DRAWINGS FLOOR PLANS INDICATING LOCATION AND WIRING OF ALL DEVICES TO THE ARCHITECT FOR HIS/HER REVIEW AND APPROVAL. SUCH PLANS SHALL BE CREATED BY A LICENSED C-10 FIRE ALARM CONTRACTOR. FLOOR PLANS SHALL BE PRODUCED ON SAME SIZE OF PAPER AS PROJECT DRAWINGS, WITH IDENTICAL SYMBOLS/LEGEND. ALL SUBMITTAL DRAWINGS SHALL BE PRODUCED ON CAD SYSTEM, PREFERABLY AUTOCAD RELEASE 2012. HE SHALL FURTHER SUBMIT. EQUIPMENT BROCHURES, FULL SET OF THE SAID DRAWINGS COMPLETE PERMIT APPLICATION AND APPLICABLE FEES TO THE CITY OF MODESTO FIRE DEPARTMENT FOR THEIR REVIEW AND APPROVAL PRIOR TO PROCUREMENT AND INSTALLATION OF THE SYSTEM. THE SUBMITTAL SHALL BE IN A FORM AND TYPE ACCEPTABLE TO THE BUILDING DEPARTMENT/FIRE DEPARTMENT. SEE "DEFERRED APPROVAL" BELOW FOR MINIMUM REQUIREMENTS.

K. DEFERRED APPROVAL:

1. ALL WORK IN CONNECTION WITH THE FIRE ALARM SYSTEM IS DEFERRED APPROVAL.

2 THE ELECTRICAL CONTRACTOR, THROUGH HIS FIRE ALARM SYSTEM SUBCONTRACTOR, SHALL PRODUCE AND PROVIDE DEFERRED APPROVAL FULLY ENGINEERED, FIRE ALARM SYSTEM PLANS AND SUBMITTALS FOR REVIEW BY THE ARCHITECT AND THE CITY FIRE DEPARTMENT. SEE "SUBMITTALS" ABOVE.

3 PROVIDE THE FOLLOWING AS A MINIMUM:

A SCOPE OF PROJECT
B. FLOOR PLANS SHOWING FIRE ALARM DEVICES
C. COMPLETE SINGLE LINE RISER DIAGRAM
D. POINT TO POINT DIAGRAM
E. CALIFORNIA STATE FIRE MARSHAL LISTING SHEETS SHOWING EXPIRATION DATE FOR ALL COMPONENTS
F. MANUFACTURER'S SPECIFICATION SHEETS ON ALL FIRE ALARM EQUIPMENT
G. PROJECT NAME
H. BATTERY CAPACITY CALCULATION FOR SYSTEM CONTROL PANEL/S
I. VOLTAGE DROP CALCULATIONS FOR ALL SIGNAL CIRCUITS
J. SYMBOL OF ALL FIRE ALARM DEVICES BEING INSTALLED. SYMBOLS TO MATCH DESIGN PLANS
K. ELEVATION DETAIL OF MANUAL PULL STATION AND VISUAL DEVICE INSTALLATION
L. LOCATION OF FIRE/SMOKE BARRIER WALLS ON FLOOR PLAN
M. IDENTIFICATION OF TYPE OF WIRING USED. WIRING SCHEDULE
N. DESIGN NUMBER AND DETAIL OF THROUGH PENETRATION FIRESTOP SYSTEM
O. FLOOR PLAN SHOWING ROOM IDENTIFICATION
P DETAILS ON SUPPORT AND ANCHORAGE OF FIRE ALARM EQUIPMENT WEIGHING OVER 20 POUNDS
Q. SEQUENCE OF OPERATION/EVENTS WHEN ALARM SYSTEM IS ACTIVATED

3

Wall Opening Protective Materials (CLIV)

1. **SpecSeal Power Shield Box Inserts**, for use with flush device UL Listed Metallic Outlet Boxes without internal clamps installed with steel mud rings in framed wall assemblies. When protective material is used in outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). The max outlet box dimensions, hourly rating, type of stud, use of stud cavity insulation and type of faceplate are tabulated below. Additional general construction features shall comply as follows:
   A. **Studs** - Unless otherwise specified, the minimum stud width is 3-1/2 in. (89 mm).
   B. **Stud Cavity Insulation** - Where indicated in the table below, stud cavity insulation to consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m3) or mineral fiber (min 4 pcf or 64 kg/m3). Unless indicated as required, stud cavity insulation is optional.
   C. **Wall Design** - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300, U400 or V400 Series Wall and Partition Design in the Fire Resistance Directory.
   D. **Pad Dimensions** - The minimum dimensions of the insert pad are shown in the table below. Pads may be cut to achieve dimensions shown in table and partial insert pads may be utilized.

Product	Max Outlet Box Size, in. (mm)	Pad Size, in. (mm)	Rating, hr	Stud	Cavity Insulation	Face Plate Type
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	1-7/8 x 2-3/4 (48 x 70)	2	Steel	No	Steel
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	1-7/8 x 2-3/4 (48 x 70)	2	Steel	Yes	Plastic
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	1-7/8 x 2-3/4 (48 x 70)	1	Steel	Yes	Plastic or Steel
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep	1-7/8 x 3-3/4 (48 x 95)	2	Steel	No	Steel
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep	1-7/8 x 3-3/4 (48 x 95)	2	Steel	Yes	Plastic
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep	1-7/8 x 3-3/4 (48 x 95)	1	Steel	Yes	Plastic or Steel
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	3-3/4 x 3-3/4 (95 x 95)	2	Steel	No	Steel
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	3-3/4 x 3-3/4 (95 x 95)	2	Steel	Yes	Plastic
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	3-3/4 x 3-3/4 (95 x 95)	1	Steel	Yes	Plastic or Steel
EP 45	4-11/16 x 4-11/16 x 2-1/8 (119 x 119 x 54) deep	4-1/2 x 4-1/2 (114 x 114)	1 or 2	Steel	Yes	Plastic or Steel
EP 45	4-1/2 x 5 x 2-3/8 (114 x 127 x 60) deep	4-1/2 x 4-1/2 (114 x 114)	1 or 2	Steel	Yes	Plastic or Steel
EP 45	4-1/2 x 14 x 2-1/2 (114 x 356 x 64) deep	4-1/2 x 13-3/4 (114 x 349)	1 or 2	Steel	Yes	Plastic or Steel

2. **SpecSeal Putty Pads**, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. When nonmetallic box is used with Type NM cable, a 3/16 in. (5 mm) thickness of putty shall be formed around the cable at its entrance to the box and extending a min of 1 in. (25 mm). The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are tabulated below. Additional general construction features shall comply as follows:
   A. **Studs** - Unless otherwise specified, the minimum stud width is 3-1/2 in. (89 mm).
   B. **Stud Cavity Insulation** - Unless indicated as required, stud cavity insulation is optional and may consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m3) or mineral fiber (min 4 pcf or 64 kg/m3).

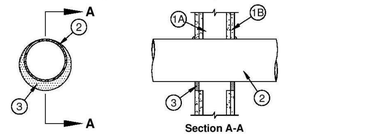
C. **Wall Design** - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300, U400 or V400 Series Wall and Partition Design in the Fire Resistance Directory.
D. **Metallic Outlet Boxes** - Except as indicated in the table below, when steel outlet boxes are used and the boxes are interconnected by means of electrical metallic tube or conduit, a ball of putty is to be installed to plug the open end of each electrical metallic tube (EMT) or conduit within the outlet box. When MC cable is used and/or when the outlet boxes are not interconnected, the ball of putty is not required.
E. **Nonmetallic Outlet Boxes** - The box manufacturer is indicated in the table below. Boxes shall bear a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory.

Max Outlet Box (mm)	Outlet Box Type	Outlet Box Mfr	Rating, hr	Stud	Face Plate Type	Putty Ball
4 x 4 x 2-1/8 (102 x 102 x 54) deep	Steel	N.A.	1	Steel or Wood	Steel	No
4 x 4 x 2-1/8 (102 x 102 x 54) deep	Steel	N.A.	1	Steel or Wood	Plastic	Yes
4-11/16 x 4-11/16 x 2-1/8 (119 x 119 x 54) deep	Steel	N.A.	1 or 2	Steel or Wood	Steel	Yes
4-1/2 x 5 x 2-3/8 (114 x 127 x 60) deep	Steel	N.A.	1 or 2	Steel or Wood	Steel	Yes
4-1/2 x 14 x 2-1/2 (114 x 127 x 60) deep	Steel	N.A.	1 or 2	Steel or Wood	Steel	Yes
3-3/4 x 4 x 3 (95 x 102 x 76) deep	Polyvinyl Chloride	Lamson & Sessions	1 or 2	Wood	Plastic or Steel	N.A.
3-3/4 x 4 x 3 (95 x 102 x 76) deep	Phenolic	Allied Moulded Prods	1 or 2	Wood	Plastic or Steel	N.A.
3-3/4 x 4 x 3 (95 x 102 x 76) deep	Polycarbonate	Thomas & Betts	1 or 2	Wood	Plastic or Steel	N.A.
3-3/4 x 4 x 3 (95 x 102 x 76) deep	Phenolic	Thomas & Betts	1 or 2	Wood	Plastic or Steel	N.A.
2-1/4 x 3-3/4 x 2-3/4 (57 x 95 x 70) deep	Polyvinyl Chloride	Pass & Seymour	1 or 2	Wood	Plastic or Steel	N.A.

3. **SpecSeal Putty Pads**, for use with maximum 4 by 4 by 2-1/8 in. (102 by 102 by 54 mm) deep flush device UL Listed **Metallic Outlet Boxes** installed with steel mud rings and with steel faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 5-1/2 in. (140 mm) wide wood or steel studs and with stud cavities filled with fiberglass (nom 0.5 pcf or 8 kg/m3) or mineral fiber (nom 4 pcf or 64 kg/m3) insulation. When protective material is used on outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the boxes on opposite sides of the wall are not interconnected with conduit or, when conduit is used, the open end of the conduit within the outlet box is filled with a ball of putty. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box.
4. **SpecSeal EP23, EP24 and EP44 Power Shield Box Inserts** and **SpecSeal Putty Pads**, for use with maximum 4 by 4 by 1-1/2 or 2-1/8 in. (102 by 102 by 38 or 54 mm) deep flush device UL Listed **Metallic Outlet Boxes** installed with steel mud rings and with steel or plastic faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 3-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. An insert pad shall be installed to completely cover the back inside surface of each outlet box.

System No. W-L-1049

F Ratings -1 and 2 Hr (See Item 1)
T Rating -0 Hr
L Rating At Ambient -Less Than 1 CFM/sq ft
L Rating At 400 F -Less Than 1 CFM/sq ft



Section A-A

1. **Wall Assembly -**The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs -**Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. **Gypsum Board*** -5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

1A. **Metallic Sleeve -**(Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

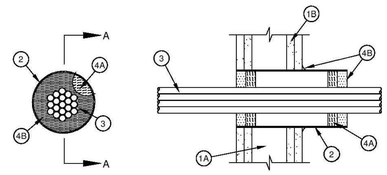
2. **Through Penetrant -**One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe -**Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe -**Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Conduit -**Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing, nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
   D. **Copper Tubing -**Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. **Copper Pipe -**Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Fill, Void or Cavity Material* - Sealant -**Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum board, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

*Bearing the UL Classification Mark

System No. W-L-3210

F Ratings - 1 and 2 hr (See Item 1)
T Rating - 3/4 Hr



Section A-A

1. **Wall Assembly -** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs -** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (76 mm) wide and spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board* -** Thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 4-1/2 in. (114 mm).
   The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Steel Sleeve -** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT), steel conduit or Schedule 5 (or heavier) steel pipe sleeve friction-fitted into wall assembly. Sleeve may be installed flush with or extend up to 18 in. (46 cm) beyond one or both wall surfaces.
3. **Cables -** Aggregate cross-sectional area of cables in steel sleeve to be max 48 percent of the aggregate cross-sectional area of the sleeve. Cables to be bundled and rigidly supported on both sides of wall assembly. The annular space between the cables and the sleeve shall be min 0 in. (point contact) to max 1-1/2 in. (38 mm). Any combination of the following types and sizes of copper conductor cable may be used:
   A. Max 200 pair No. AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 3/C No. 2/0 AWG (or smaller) aluminum or copper conductor service entrance cable with PVC insulation and jacket.
   C. Max 3/C No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with copper conductors, PVC insulation and jacket.
   D. Max 7/C No. 2/0 AWG (or smaller) multiconductor power and control cables with XLPE or PVC insulation and XLPE or PVC jacket.
   E. Max RG/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacketing.
   F. Max 62.5/48 fiber optic cable with PVC insulation and jacketing.
   G. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC insulation and jacket.
   H. Max 4/C No. 2/0 aluminum or copper conductor aluminum or steel Metal-Clad# or Armored-Clad# cable.

4. **Firestop System -** The firestop system shall consist of the following:
   A. **Packing Material -** When required (See table in Item 3B), min 1 in. (25 mm) thickness of min 4.0 pcf (64 kg/m3) mineral wool batt insulation firmly packed into each end of sleeve as a permanent form. Packing material to be recessed from each end of sleeve as required to accommodate the required thickness of fill material.
   B. **Fill, Void or Cavity Material* - Sealant or Putty -** Fill material applied to appropriate thickness within steel sleeve, flush with edges of steel sleeve on both surfaces of wall. Min 1/2 in. (13 mm) diam bead of sealant or "rope" of putty shall be applied around the perimeter of the sleeve on each side of the wall when sleeve extends beyond surface of wall. See table below for fill material thickness requirements.

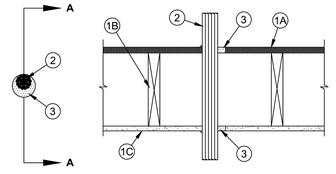
Sealant or Putty Type	Thickness, In. (mm)	Packing Material Required
SpecSeal Series SSS Sealant or LCI Sealant	1/2 in. (13)	Yes
SpecSeal Series SSS Sealant or LCI Sealant	1 in. (25)	No
SpecSeal Putty	1 in. (25)	No

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or SpecSeal Putty

*Bearing the UL Classification Mark

System No. F-C-3057

F Ratings - 1 Hr and 2 Hr (See Item 1)
T Rating - 1/2 Hr



Section A-A

1. **Floor - Ceiling Assembly -** The 1 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Designs in the UL Fire Resistance Directory. The 2 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design Nos. L535, L511 or L536 in the UL Fire Resistance Directory. **The F Rating of the firestop system is equal to the fire rating of the floor-ceiling assembly.** The general construction features of the floor assembly are summarized below:
   A. **Flooring System -** Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Max diam of opening is 3 in. (76 mm).
   B. **Wood Joists -** Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.
   C. **Gypsum Board* -** Thickness, type, number of layers and fasteners as required in the individual Floor-Ceiling Design. Max diam of opening is 3 in. (76 mm).

1A. **Chase Wall -** (Optional, Not Shown) - The through penetrant (Item 2) may be routed through a 1 or 2 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. (13 mm) greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs -** Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 162 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
   B. **Sole Plate -** Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm)or parallel 2 by 4 in. (51 by 102 mm)lumber plates, tightly butted. Max diam of opening is 3 in.
   C. **Top Plate -** The double top plate shall consist of two nom 2 by 4 in. (51 by 102 mm), two nom 2 by 6 in. (51 by 152 mm)or two sets of parallel 2 by 4 in. (51 by 102 mm)lumber plates, tightly butted. Max diam of opening is 3 in. (76 mm).
   D. **Gypsum Board* -** Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

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PROJECT # 2024.289.1

NOT FOR CONSTRUCTION

PUBLISH HISTORY:

	DATE	PURPOSE
	10/08/25	INITIAL SUBMITAL
1	10/29/25	COORDINATION
2	12/12/25	PLAN CHECK #1
3	02/12/26	PLAN CHECK #2
4	08.31.26	BID SET

FIRE PENETRATION DETAILS

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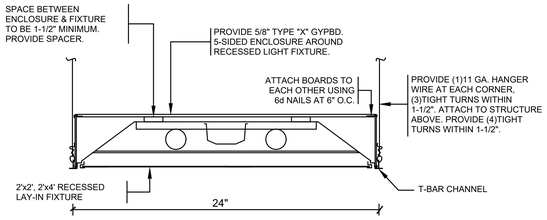
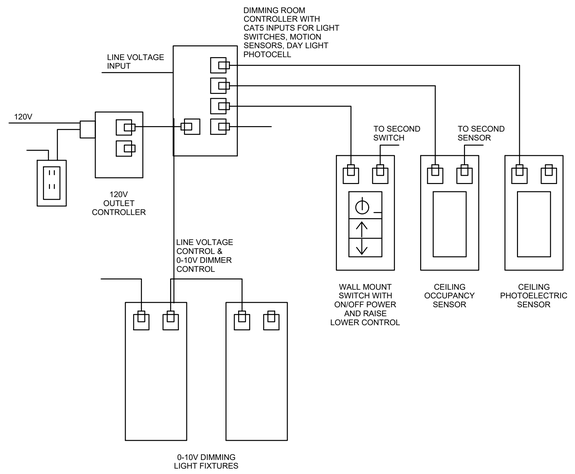
FIXTURE SCHEDULE

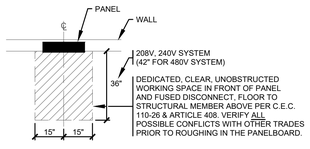
TYPE	#LAMPS	W/LAMP	DESCRIPTION	MANUFACTURER'S NO.	LOAD
A	LED		2X4 RECESSED TROFFER 4000L - 120-277V	METALUX #24CZ2-40-UNV-L940-CDI-U	30
B	LED		2X4 RECESSED TROFFER 6000L - 120-277V	METALUX #24CZ2-60-UNV-L940-CDI-U	46
BE	LED		SIMILAR TO "A" W/ EMERGENCY BATTERY BACKUP	-	46
C	LED		2X4 RECESSED TROFFER 7500L - 120-277V	METALUX #24CZ2-75HE-UNV-L940-CDI-U	55
CE	LED		SIMILAR TO "C" W/ EMERGENCY BATTERY BACKUP	-	55
D	LED		2X4 RECESSED TROFFER 13000L - 120-277V	METALUX #24CZ2-130VHE-UNV-L940-CDI-U	90
DE	LED		SIMILAR TO "A" W/ EMERGENCY BATTERY BACKUP	-	90
F	LED		1X4 SURFACE WRAP 4000L 120-277V	METALUX #4-WNLED-LD4-40SL-UNV-L840-CD-1	32
G	LED		2X4 RECESSED TROFFER 4500L - 120-277V	METALUX #24CZ2-45-UNV-L940-CDI-U	35
H	LED		6" RECESSED DOWNLIGHT 1500L	COOPER #LD6D	15
	–	–	COMBINATION EXIT SIGN/ EGRESS LIGHT UNIT, 90 MIN BATTERY BACKUP	LITHONIA #LHQM-LED-R-HO-SD	-
	–	–	EXIT SIGN - SINGLE/DOUBLE SIDED - RED	LITHONIA #LQM-S-W-3-R-120/277	-
	–	–	WALL MOUNT EMERGENCY EGRESS LIGHT UNIT, 90 MIN BATTERY BACKUP	LITHONIA #ELM2L	-
	–	–	REMOTE EMERGENCY EXTERIOR LIGHT POWERED BY	LITHONIA AFF-OELR-DWHGXD-WT	-



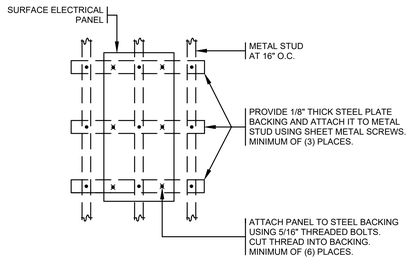
FIRE RATED ENCLOSURE DETAIL
RECESSED "TBAR" 2'x2' & 2'x4' LIGHT FIXTURE



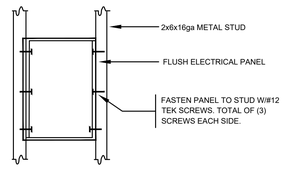
LIGHTING CONTROL DETAIL
SCALE: N.T.S.



PANELBOARD CLEAR WORKING SPACE
SCALE: N.T.S.
SIMILAR FOR FUSED DISCONNECTS



SURFACE PANEL ON METAL STUD WALL



MOUNTING DETAIL:
RECESSED ELECTRICAL PANEL

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PROJECT # 2024.289.1

NOT FOR CONSTRUCTION

RICHARD C. SMITH — No. E-13611 — PROFESSIONAL ENGINEER — ELECTRICAL — STATE OF CALIFORNIA

PUBLISH HISTORY:

	DATE	PURPOSE
Δ4	10/08/25	INITIAL SUBMITAL
Δ1	10/29/25	COORDINATION
Δ2	12/12/25	PLAN CHECK #1
Δ3	02/12/26	PLAN CHECK #2
4	08.31.26	BID SET

ELECTRICAL DETAILS

E0.3

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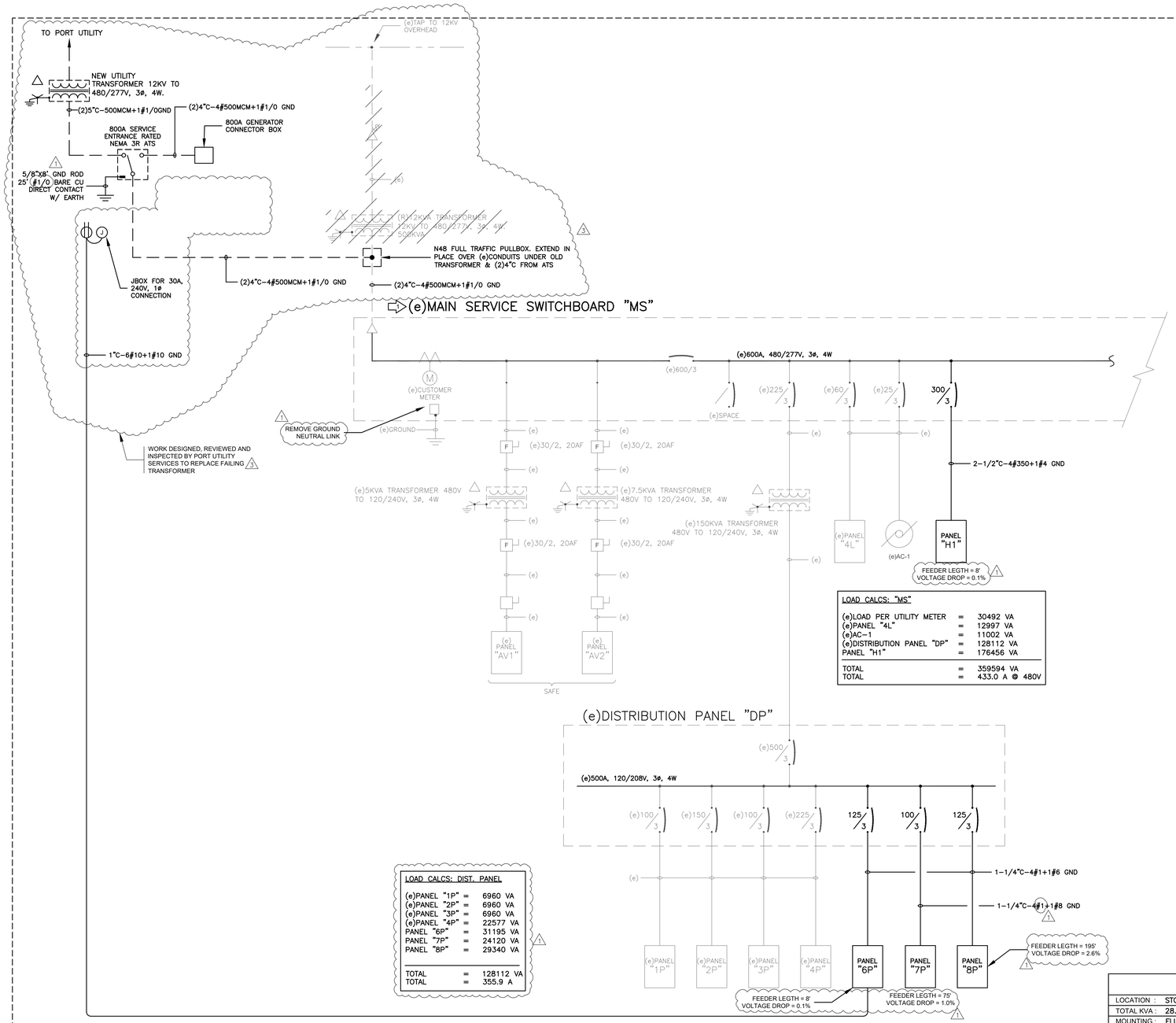


LOAD CALCS: "MS"

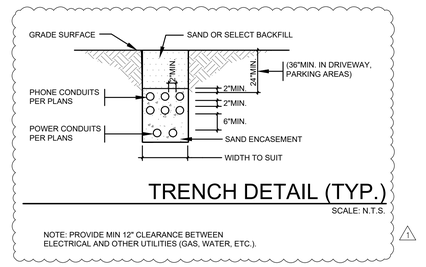
(e)LOAD PER UTILITY METER	=	30492 VA
(e)PANEL "4L"	=	12997 VA
(e)AC-1	=	11002 VA
(e)DISTRIBUTION PANEL "DP"	=	128112 VA
PANEL "H1"	=	176456 VA
TOTAL	=	359594 VA
TOTAL	=	433.0 A @ 480V

LOAD CALCS: DIST. PANEL

(e)PANEL "1P"	=	6960 VA
(e)PANEL "2P"	=	6960 VA
(e)PANEL "3P"	=	6960 VA
(e)PANEL "4P"	=	22577 VA
PANEL "6P"	=	31195 VA
PANEL "7P"	=	24120 VA
PANEL "8P"	=	29340 VA
TOTAL	=	128112 VA
TOTAL	=	355.9 A

ONE LINE DIAGRAM

SCALE: N.T.S.



TRENCH DETAIL (TYP.)

SCALE: N.T.S.

NOTE: PROVIDE MIN 12" CLEARANCE BETWEEN ELECTRICAL AND OTHER UTILITIES (GAS, WATER, ETC.).

NUMBERED NOTES THIS SHEET:

1. PROVIDE NOTE "WARNING SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED. WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH CEC 110.21(B)

(e)PANEL "4L"

LOCATION : ELECTRICAL ROOM		TITLE 24 CATEGORY: LIGHTING
TOTAL KVA : 13		CONNECT AMPS: 36.1A
MOUNTING : FLUSH		VOLTAGE : 277/480V, 3ø, 4W
BUSSING : 60A	☐ MCB ☒ MLO	FEEDER : ☐ SEE ONE LINE DIAGRAM
AIC : 18,000		☒ EXISTING

DESCRIPTION	LOAD	BRKR			BRKR	LOAD	DESCRIPTION
(e)LIGHTING	1814	(e)20/1	1	2	(e)20/1	796	(e)LIGHTING
LIGHTING	1530	20/1	3	4	20/1	840	CORRIDOR LIGHTING
LIGHTING	1530	20/1	5	6	20/1	2001	LIGHTING
CORRIDOR LIGHTING	570	20/1	7	8	20/1	1702	LIGHTING
LIGHTING	1560	20/1	9	10	20/1	767	LIGHTING
STORAGE LIGHTING	448	20/1	11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32			
			33	34			
			35	36			
			37	38			
			39	40			
			41	42			
	7452	VA TOTAL				5545	

PANEL "6P"

LOCATION : ELECTRICAL ROOM		TITLE 24 CATEGORY: OUTLET
TOTAL KVA : 29.8		CONNECT AMPS: 82.7A
MOUNTING : SURFACE		VOLTAGE : 120/208V, 3ø, 4W
BUSSING : 125A	☐ MCB ☒ MLO	FEEDER : ☒ SEE ONE LINE DIAGRAM
A.I.C. : 18,000		☐ EXISTING

DESCRIPTION	LOAD	BRKR			BRKR	LOAD	DESCRIPTION
CONF. OUTLETS	360	20/1	1	2	20/1	360	CONF. OUTLETS
STORAGE OUTLET	900	20/1	3	4	20/1	180	GENERATOR OUTLET
SPARE	0	20/1	5	6	20/1	500	BATTERY
SPARE	0	20/1	7	8	20/1	0	SPARE
OFFICE OUTLET	720	20/1	9	10	20/1	540	OPEN OFFICE OUTLET
PRINTER OUTLETS	900	20/1	11	12	20/1	720	CONF. OUTLETS
OFFICE OUTLETS	720	20/1	13	14	20/1	720	OFFICE OUTLETS
OFFICE OUTLETS	720	20/1	15	16	20/1	720	OFFICE OUTLET
SPARE	0	20/1	17	18	20/1	720	OFFICE OUTLET
OFFICE OUTLET	540	20/1	19	20	20/1	360	CORRIDOR OUTLET
CORRIDOR OUTLET	720	20/1	21	22	20/1	0	SPARE
OFFICE OUTLET	900	20/1	23	24	20/1	500	UC FRIDGE
OUTLETS	360	20/1	25	26	20/1	0	SPARE
HP-2	4118	25	27	28	20/1	500	UC FRIDGE
		2	29	30	20/1	244	OAF-2,3
HP-3	4326	25	31	32	20	3307	HP-1
		2	33	34	2		
ZONE DAMPER	300	20/1	35	36	20/1	540	ROOF OUTLET
DAMPER	500	20/1	37	38	20/1	200	SMOKE DAMPER
DUCT SMOKE DET.	100	20/1	39	40	30	3120	BLOCK HEATER
			41	42	2		
	16184	VA TOTAL				13591	

PANEL "7P"

LOCATION : –		TITLE 24 CATEGORY: MIXED
TOTAL KVA : 20.0		CONNECT AMPS: 55.6A
MOUNTING : FLUSH		VOLTAGE : 120/208V, 3ø, 4W
BUSSING : 100A	☐ MCB ☒ MLO	FEEDER : ☒ SEE ONE LINE DIAGRAM
A.I.C. : 18,000		☐ EXISTING

DESCRIPTION	LOAD	BRKR			BRKR	LOAD	DESCRIPTION
FLOOR OUTLET	360	20/1	1	2	20/1	0	SPARE
SPARE	0	20/1	3	4	20/1	0	SPARE
SPARE	0	20/1	5	6	20/1	720	OFFICE OUTLET
OFFICE OUTLET	720	20/1	7	8	20/1	0	SPARE
SPARE	0	20/1	9	10	20/1	540	OFFICE OUTLET
SPARE	0	20/1	11	12	20/1	720	OFFICE OUTLET
OFFICE OUTLET	720	20/1	13	14	20/1	720	OFFICE OUTLET
CORRIDOR OUTLET	540	20/1	15	16	20/1	0	SPARE
TOILET OUTLET	360	20/1	17	18	20/1	0	SPARE
AUTO DOOR	360	20/1	19	20	20/1	360	AUTO DOOR
SPARE	0	20/1	21	22	20/1	0	SPARE
MICROWAVE	1200	20/1	23	24	20/1	1200	DISHWASHER
MICROWAVE	1200	20/1	25	26	20/1	180	COUNTER OUTLET
UC FRIDGE	500	20/1	27	28	20/1	180	COUNTER OUTLET
COUNTER OUTLET	180	20/1	29	30	20/1	500	DISHWASHER
MICROWAVE	1200	20/1	31	32	20/1	180	COUNTER OUTLET
SPARE	0	20/1	33	34	20/1	180	LACTATION COUNTER OUTLET
MICROWAVE	1200	20/1	35	36	20/1	500	WATER DISPENSOR
GARBAGE DISP	500	20/1	37	38	20/1	500	GARBAGE DISP
ZONE DAMPER	400	20/1	39	40	20/1	500	REFRIGERATOR
			41	42			
	10520	VA TOTAL				9500	

⊛ PROVIDE GFI BREAKER

PANEL "8P"

LOCATION : STOR. V-100		TITLE 24 CATEGORY: –	
TOTAL KVA : 28.8		CONNECT AMPS: 79.9A	
MOUNTING : FLUSH		VOLTAGE : 120/208V, 3ø, 4W	
BUSSING : 125A	☐ MCB ☒ MLO	FEEDER : ☒ SEE ONE LINE DIAGRAM	
A.I.C. : 18,000		☐ EXISTING	

DESCRIPTION	LOAD	BRKR			BRKR	LOAD	DESCRIPTION
OFFICE OUTLET	540	20/1	1	2	20/1	720	OFFICE OUTLET
OFFICE OUTLET	720	20/1	3	4	20/1	720	OFFICE OUTLET
RESTROOM OUTLET	900	20/1	5	6	20/1	540	OFFICE OUTLET
OFFICE OUTLET	540	20/1	7	8	20/1	720	OFFICE OUTLET
SPARE	0	20/1	9	10	20/1	720	OFFICE OUTLET
SPARE	0	20/1	11	12	20/1	0	SPARE
SPARE	0	20/1	13	14	20/1	0	SPARE
OFFICE OUTLET	720	20/1	15	16	20/1	720	OFFICE OUTLET
CONF. OUTLET	720	20/1	17	18	20/1	720	OFFICE OUTLET
OFFICE OUTLET	720	20/1	19	20	20/1	720	OFFICE OUTLET
OFFICE OUTLET	720	20/1	21	22	20/1	720	OFFICE OUTLET
OFFICE OUTLET	720	20/1	23	24	20/1	0	SPARE
OFFICE OUTLET	1080	20/1	25	26	20/1	720	OFFICE OUTLET
OFFICE OUTLET	720	20/1	27	28	20/1	540	CORRIDOR OUTLET
OFFICE OUTLET	720	20/1	29	30	20/1	720	OFFICE OUTLET
OFFICE OUTLET	720	20/1	31	32	20/1	720	OFFICE OUTLET
OFFICE OUTLET	720	20/1	33	34	20/1	720	OFFICE OUTLET
OFFICE OUTLET	720	20/1	35	36	20/1	720	OFFICE OUTLET
COMMISSIONERS OUTLETS	900	20/1	37	38	20/1	360	CORRIDOR OUTLET
COMMISSIONERS OUTLETS	900	20/1	39	40	20/1	900	LOBBY OFFICE
COMMISSIONERS OUTLETS	900	20/1	41	42	20/1	360	COMMISSIONERS OUTLETS
WH-1	360	20/1	43	44	20/1	120	HWCP-1
COFFEE MACHINE	1000	20/1	45	46	20/1	500	BACKLIT LOGO
COFFEE MACHINE	1000	20/1	47	48			
POWER RECEPTACLE	180	20/1	49	50			
POWER RECEPTACLE	180	20/1	51	52			
POWER RECEPTACLE	180	20/1	53	54			
			55	56			
			57	58			
			59	60			
	16580	VA TOTAL				12180	

PANEL "H1"

LOCATION : ELECTRICAL ROOM		TITLE 24 CATEGORY: HVAC	
TOTAL KVA : 176.5		CONNECT AMPS: 212.5A	
MOUNTING : SURFACE		VOLTAGE : 277/480V, 3ø, 4W	
BUSSING : 300A	☐ MCB ☒ MLO	FEEDER : ☒ SEE ONE LINE DIAGRAM	
A.I.C. : 18,000		☐ EXISTING	

DESCRIPTION	LOAD	BRKR			BRKR	LOAD	DESCRIPTION
		30	1	2	15		
AC-6	15030		3	4		7266	AC-7
		3	5	6	3		
		15	7	8	25		
AC-8	7266		9	10		14656	AC-9
		3	11	12	3		
		15	13	14	15		
AC-10	7266		15	16		2076	ERV-1
		3	17	18	3		
		45	19	20	40		
(e)AC-1	26572		21	22		28233	(e)AC-3
		3	23	24	3		
		25	25	26	25		
(e)AC-4.1	13286		27	28		13286	(e)AC-4.2
		3	29	30	3		
		25	31	32	40		
(e)AC-4.3	13286		33	34		28233	(e)AC-5
		3	35	36	3		
			37	38			
			39	40			
			41	42			
	82706	VA TOTAL				93750	

⊛ UNIT PART OF ALTERNATE BID. CONTRACTOR TO CONFIRM W/ OWNER THAT UNIT WILL BE INSTALLED.

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PROJECT # 2024.289.1

NOT FOR CONSTRUCTION

PUBLISH HISTORY:

	DATE	PURPOSE
	10/08/25	INITIAL SUBMITAL
1	10/29/25	COORDINATION
2	12/12/25	PLAN CHECK #1
3	02/12/26	PLAN CHECK #2
4	08.31.26	BID SET

ONE LINE DIAGRAM & PANEL SCHEDULES

E0.4

11/22/2024 12:11:20 PM

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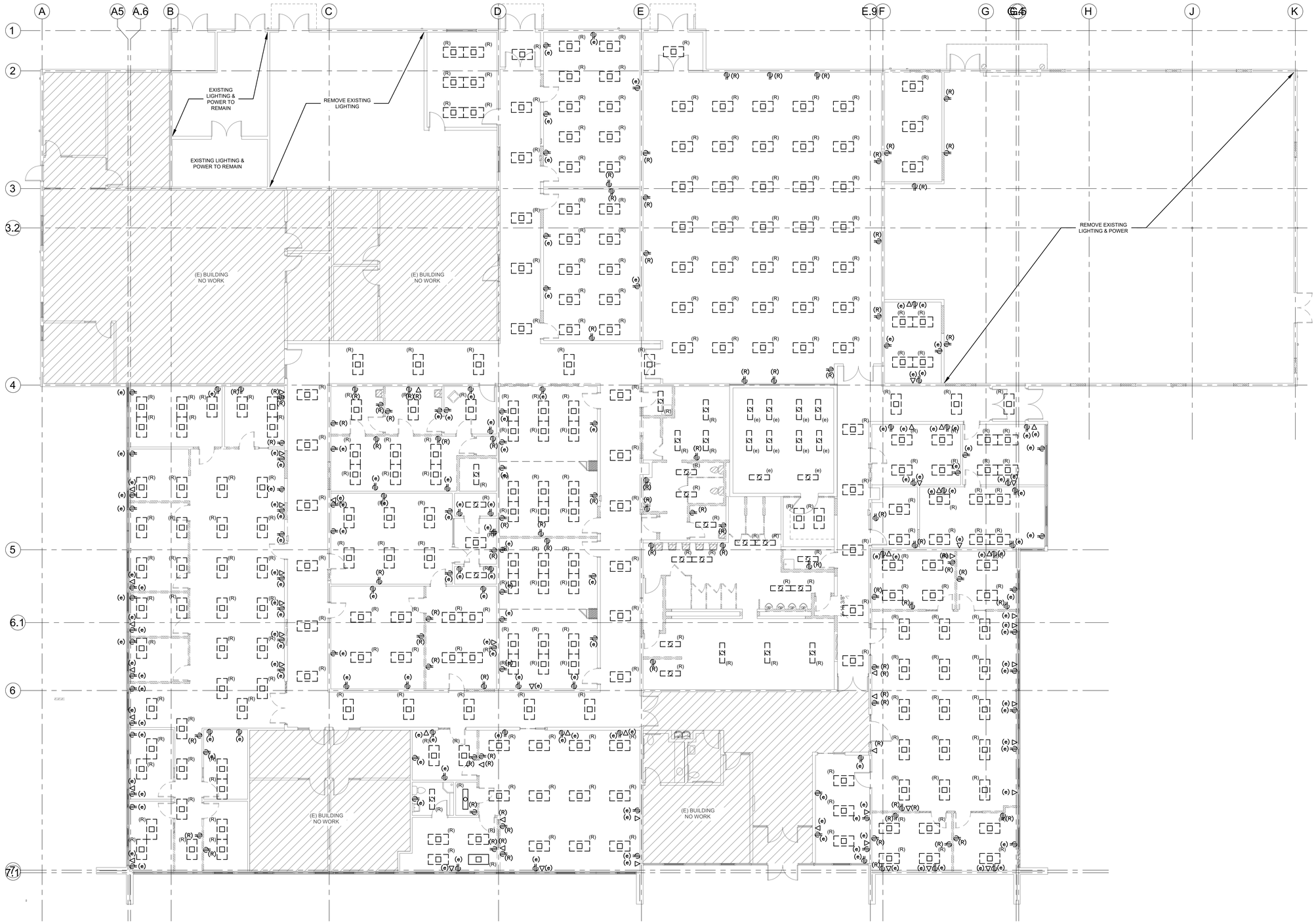

OVERALL DEMOLITION ELECTRICAL FLOOR PLAN

SCALE: 1/8"=1'-0"

NORTH

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PROJECT # 2024.289.1

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PUBLISH HISTORY:

	DATE	PURPOSE
	10/08/25	INITIAL SUBMITAL
1	10/29/25	COORDINATION
2	12/12/25	PLAN CHECK #1
3	02/12/26	PLAN CHECK #2
4	08.31.26	BID SET

OVERALL DEMOLITION ELECTRICAL FLOOR PLAN

E1.0

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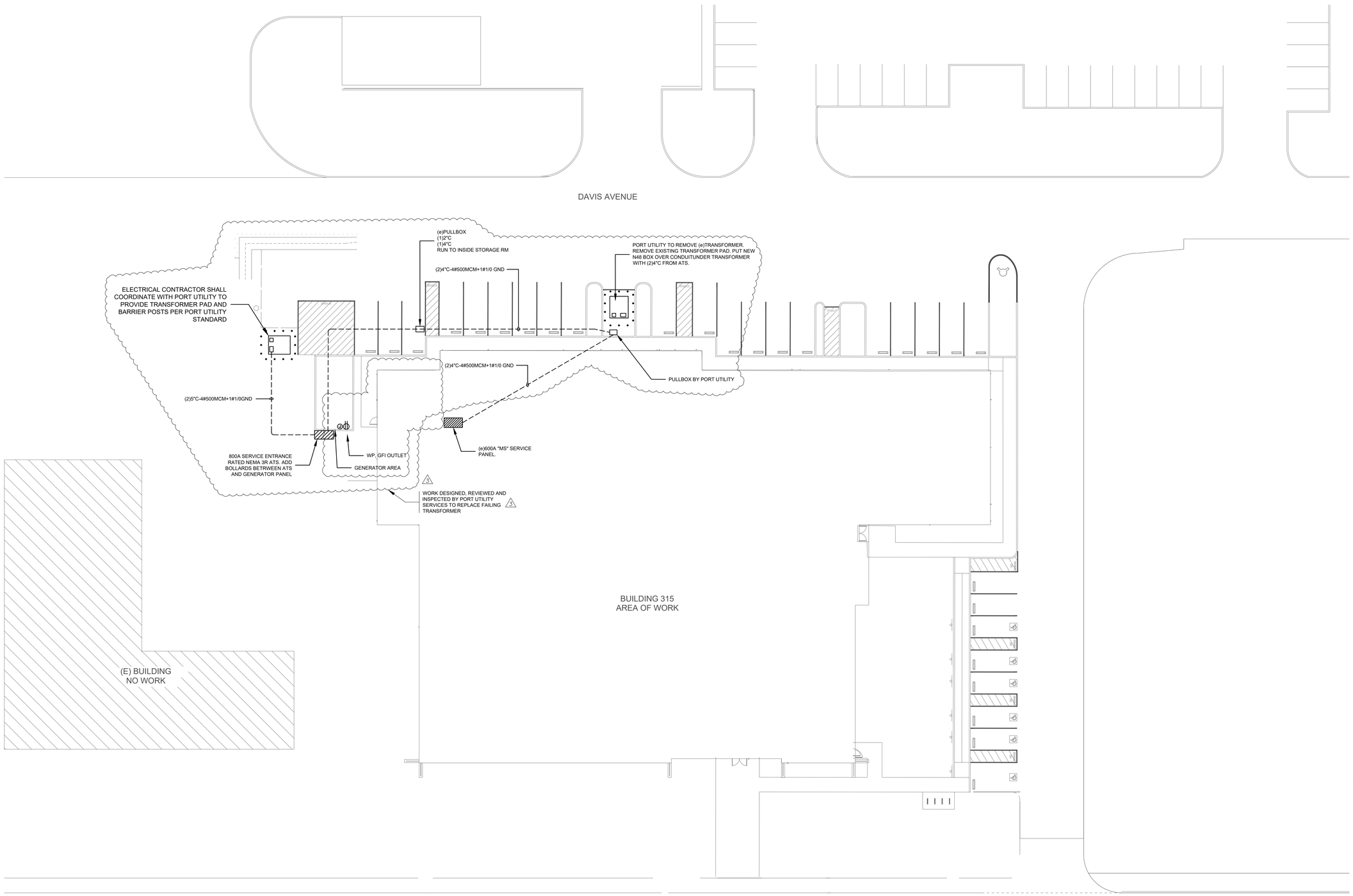

ELECTRICAL SITE PLAN

SCALE: 1/16"=1'-0"

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PROJECT # 2024.289.1

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PUBLISH HISTORY:

	DATE	PURPOSE
	10/08/25	INITIAL SUBMITAL
1	10/29/25	COORDINATION
2	12/12/25	PLAN CHECK #1
3	02/12/26	PLAN CHECK #2
4	08.31.26	BID SET

ELECTRICAL SITE PLAN

E1.1

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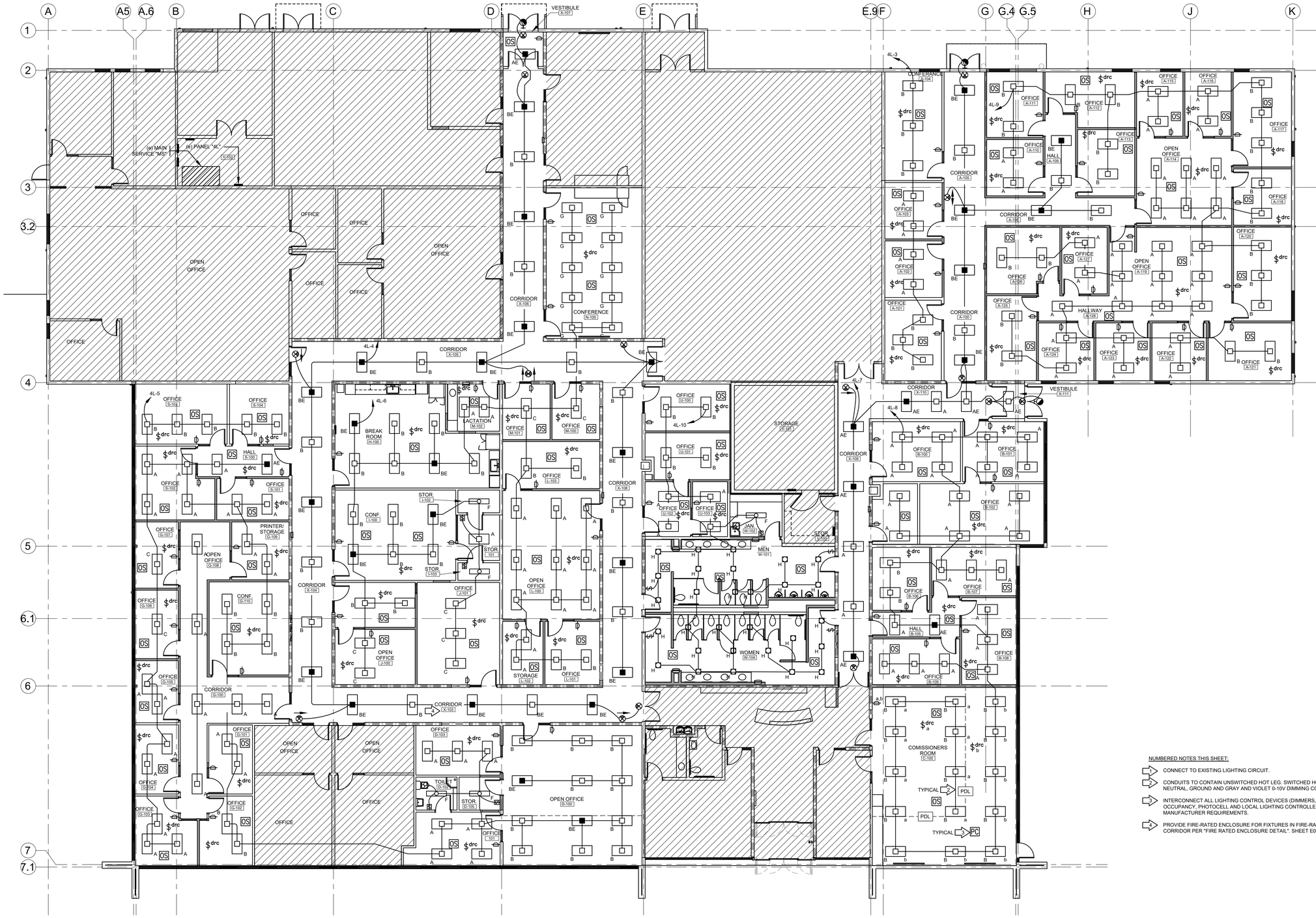

LIGHTING FLOOR PLAN

SCALE: 1/8"=1'-0"

NORTH

NUMBERED NOTES THIS SHEET:

1. CONNECT TO EXISTING LIGHTING CIRCUIT.
2. CONDUITS TO CONTAIN UNSWITCHED HOT LEG, SWITCHED HOT LEG, NEUTRAL, GROUND AND GRAY AND VIOLET 0-10V DIMMING CONTROL
3. INTERCONNECT ALL LIGHTING CONTROL DEVICES (DIMMERS, OCCUPANCY, PHOTOCELL AND LOCAL LIGHTING CONTROLLER) PER MANUFACTURER REQUIREMENTS.
4. PROVIDE FIRE-RATED ENCLOSURE FOR FIXTURES IN FIRE-RATED CORRIDOR PER "FIRE RATED ENCLOSURE DETAIL". SHEET E0.3

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PROJECT # 2024.289.1

NOT FOR CONSTRUCTION

RICHARD C. SMITH — No. E-17921 — ELECTRICAL — STATE OF CALIFORNIA

PUBLISH HISTORY:

	DATE	PURPOSE
	10/08/25	INITIAL SUBMITAL
1	10/29/25	COORDINATION
2	12/12/25	PLAN CHECK #1
3	02/12/26	PLAN CHECK #2
4	08.31.26	BID SET

LIGHTING FLOOR PLAN

E2.0

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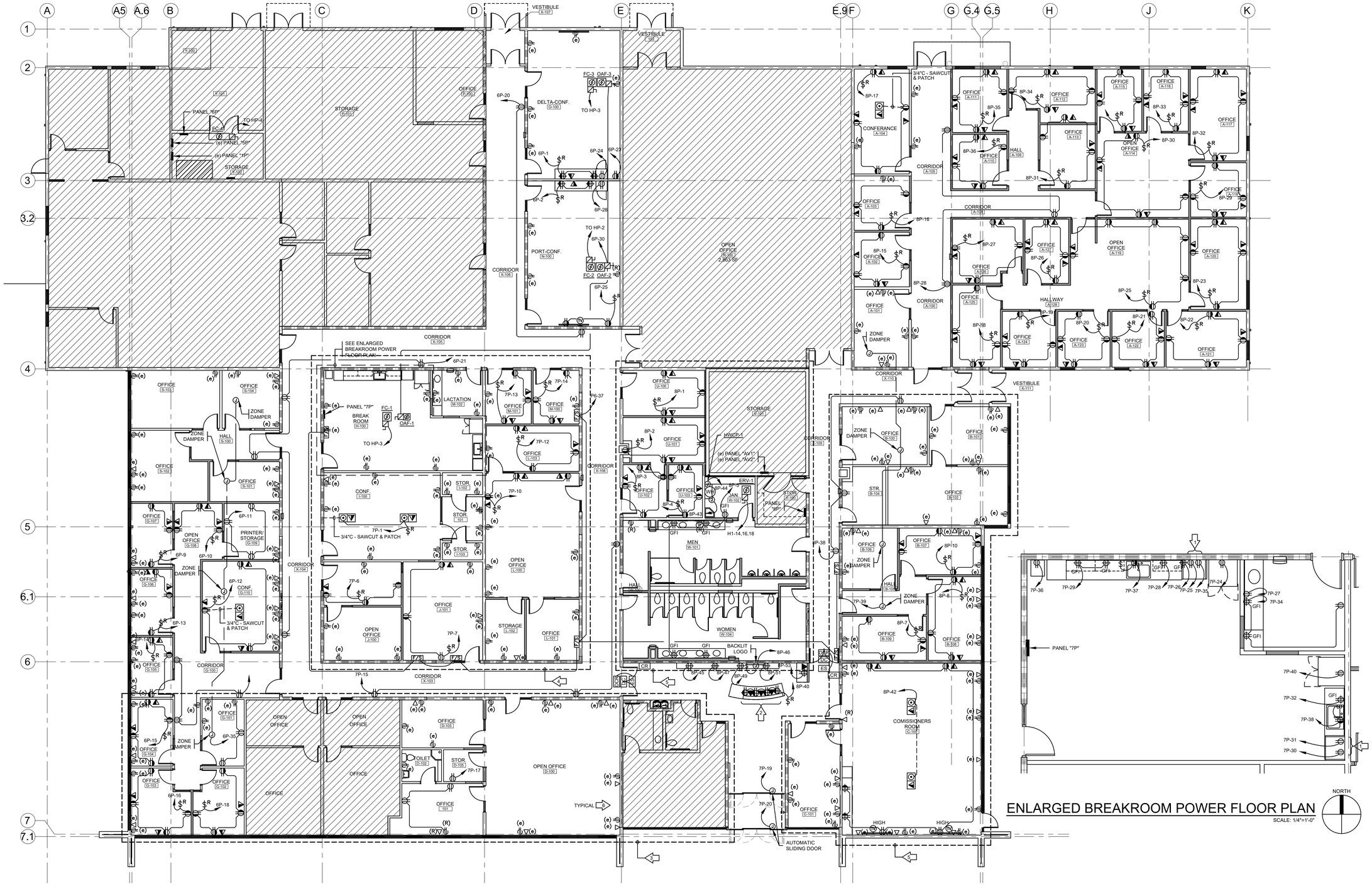

ENLARGED BREAKROOM POWER FLOOR PLAN

SCALE: 1/4"=1'-0"

NORTH

HVAC UNIT SCHEDULE

UNIT	VOLTS/Ø	FLA	DISC.	FUSE	BRANCH CIRCUIT
ERV-1	480/3	2.5	-	MMS	1/2"C-2#12+1#12 GND
FC-1	208/1	8.9	-	MMS	1/2"C-2#12+1#12 GND TO HP-1
FC-2	208/1	10.6	-	MMS	1/2"C-2#12+1#12 GND TO HP-2
FC-3	208/1	14.1	-	MMS	1/2"C-2#12+1#12 GND TO HP-3
FC-4	208/1	8.1	-	MMS	1/2"C-2#12+1#12 GND TO HP-4
OAF-1	120/1	0.5	-	MMS	1/2"C-2#12+1#12 GND
OAF-2	120/1	1.02	-	MMS	1/2"C-2#12+1#12 GND
OAF-3	120/1	1.02	-	MMS	1/2"C-2#12+1#12 GND
WH-1	120/1	3.1	-	-	1/2"C-2#12+1#12 GND
HWCP-1	120/1	1	-	-	1/2"C-2#12+1#12 GND

LEGEND - SECURITY SYSTEM DEVICES

- CR CARD READER
- DC DOOR CONTACTOR, BY HOFFMAN.
- DCR DOOR CONTROLLER WITH POWER SUPPLY IN ATTIC SPACE FROM NEAREST OUTLET TO POWER DOOR'S ELECTRIC STRIKE. TIE INTO SECURITY SYSTEM TO GRANT ACCESS TO DOOR.
- ES ELECTRIC DOOR STRIKE TO RELEASE DOOR.

POWER FLOOR PLAN

SCALE: 1/8"=1'-0"

NORTH

NUMBERED NOTES THIS SHEET:

1. COORDINATE MICROWAVE OUTLET HEIGHTS W/ BREAKROOM ELEVATION DETAILS ON ARCHITECTURAL SHEET A11.1.
2. COORDINATE OUTLET LOCATIONS W/ CASEWORK. SEE DESK DETAILS ON ARCHITECTURAL SHEET A11.1.
3. DATA IN THIS AREA TO BE TERMINATED AT IDF #2.
4. DATA IN THIS AREA TO BE TERMINATED AT IDF #1.
5. DATA IN THIS AREA TO BE TERMINATED AT IDF #3
6. PROVIDE PULL STRING FROM COMMUNICATION OUTLETS ON WALLS TO THE CEILING SPACE ABOVE. LABEL NAMEPLATES W/ IDF AND PORT NUMBER
7. OFFICE OUTLETS TO BE HALF SWITCHED CONTROLLED BY A PLUG LOAD CONTROLLER, CONTROLLED BY THE OCCUPANCY SENSOR.

NOTES THIS SHEET:

1. WHEN REMOVING EXISTING OUTLETS, CONTRACTOR TO ENSURE TO MAINTAIN POWER ON OPPOSITE SIDE OF SHARED WALL.

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PROJECT # 2024.289.1

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RICHARD C. SMITH No. 18000 ELECTRICAL STATE OF CALIFORNIA

PUBLISH HISTORY:

	DATE	PURPOSE
	10/08/25	INITIAL SUBMITAL
1	10/29/25	COORDINATION
2	12/12/25	PLAN CHECK #1
3	02/12/26	PLAN CHECK #2
4	08.31.26	BID SET

POWER FLOOR PLAN

E3.0

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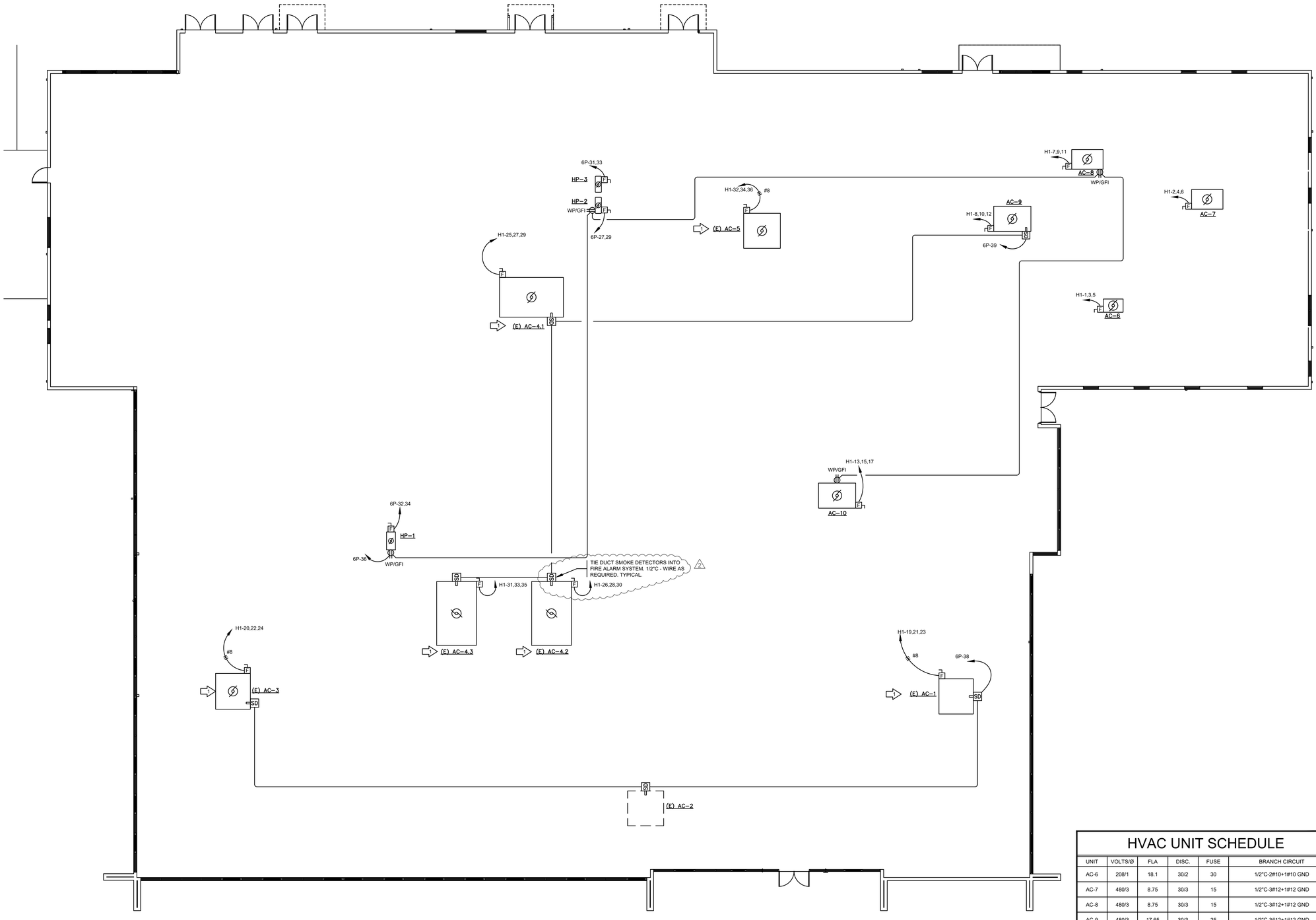

ELECTRICAL ROOF PLAN

SCALE: 1/8"=1'-0"

NORTH

NUMBERED NOTES THIS SHEET:

1 UNIT PART OF ALTERNATE BID. CONTRACTOR TO CONFIRM W/ OWNER THAT UNIT WILL BE INSTALLED. IF UNIT WILL NOT BE INSTALLED. EXISTING UNIT AND ASSOCIATED ELELCTRICAL TO REMAIN.

HVAC UNIT SCHEDULE

UNIT	VOLTS/Ø	FLA	DISC.	FUSE	BRANCH CIRCUIT
AC-6	208/1	18.1	30/2	30	1/2"C-2#10+1#10 GND
AC-7	480/3	8.75	30/3	15	1/2"C-3#12+1#12 GND
AC-8	480/3	8.75	30/3	15	1/2"C-3#12+1#12 GND
AC-9	480/3	17.65	30/3	25	1/2"C-3#12+1#12 GND
AC-10	480/3	8.75	30/3	15	1/2"C-3#12+1#12 GND
HP-1	208/1	15.9	30/2	20	1/2"C-2#12+1#12 GND
HP-2	208/1	19.8	30/2	25	1/2"C-2#12+1#12 GND
HP-3	208/1	20.8	30/2	25	1/2"C-2#12+1#12 GND
HP-4	208/1	14.4	30/2	20	1/2"C-2#12+1#12 GND
⊛ (e)AC-1	480/3	32	60/3	45	3/4"C-3#8+1#10 GND
⊛ (e)AC-3	480/3	34	60/3	40	3/4"C-3#8+1#10 GND
⊛ (e)AC-4.1	480/3	16	30/3	25	1/2"C-3#12+1#12 GND
⊛ (e)AC-4.2	480/3	16	30/3	25	1/2"C-3#12+1#12 GND
⊛ (e)AC-4.3	480/3	16	30/3	25	1/2"C-3#12+1#12 GND
⊛ (e)AC-5	480/3	34	30/3	40	3/4"C-3#8+1#10 GND

MMS = MANUAL MOTOR STARTER/DISCONNECT

⊛ UNIT PART OF ALTERNATE BID. CONTRACTOR TO CONFIRM W/ OWNER THAT UNIT WILL BE INSTALLED.

WMB ARCHITECTS

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Port of Stockton
Building 315 Alteration - Phase (2)

315 Fyffe Ave.
Stockton, CA 95203

WMB Project No. 19-095

HCS Engineering
50 years
4532 Feather River Dr #F, Stockton, CA 95219
209-478-8270 | www.hcs-eng.com
■ Richard C. Smith, PE richard@hcs-eng.com
□ Bhupendra Patel, PE bhupendra@hcs-eng.com

PROJECT = 2024.289.1

NOT FOR CONSTRUCTION

RICHARD C. SMITH — No. 18281 — ELECTRICAL — STATE OF CALIFORNIA

PUBLISH HISTORY:

NO.	DATE	PURPOSE
	10/08/25	INITIAL SUBMITAL
1	10/29/25	COORDINATION
2	12/12/25	PLAN CHECK #1
3	02/12/26	PLAN CHECK #2
4	08.31.26	BID SET

ELECTRICAL ROOF PLAN

E4.0

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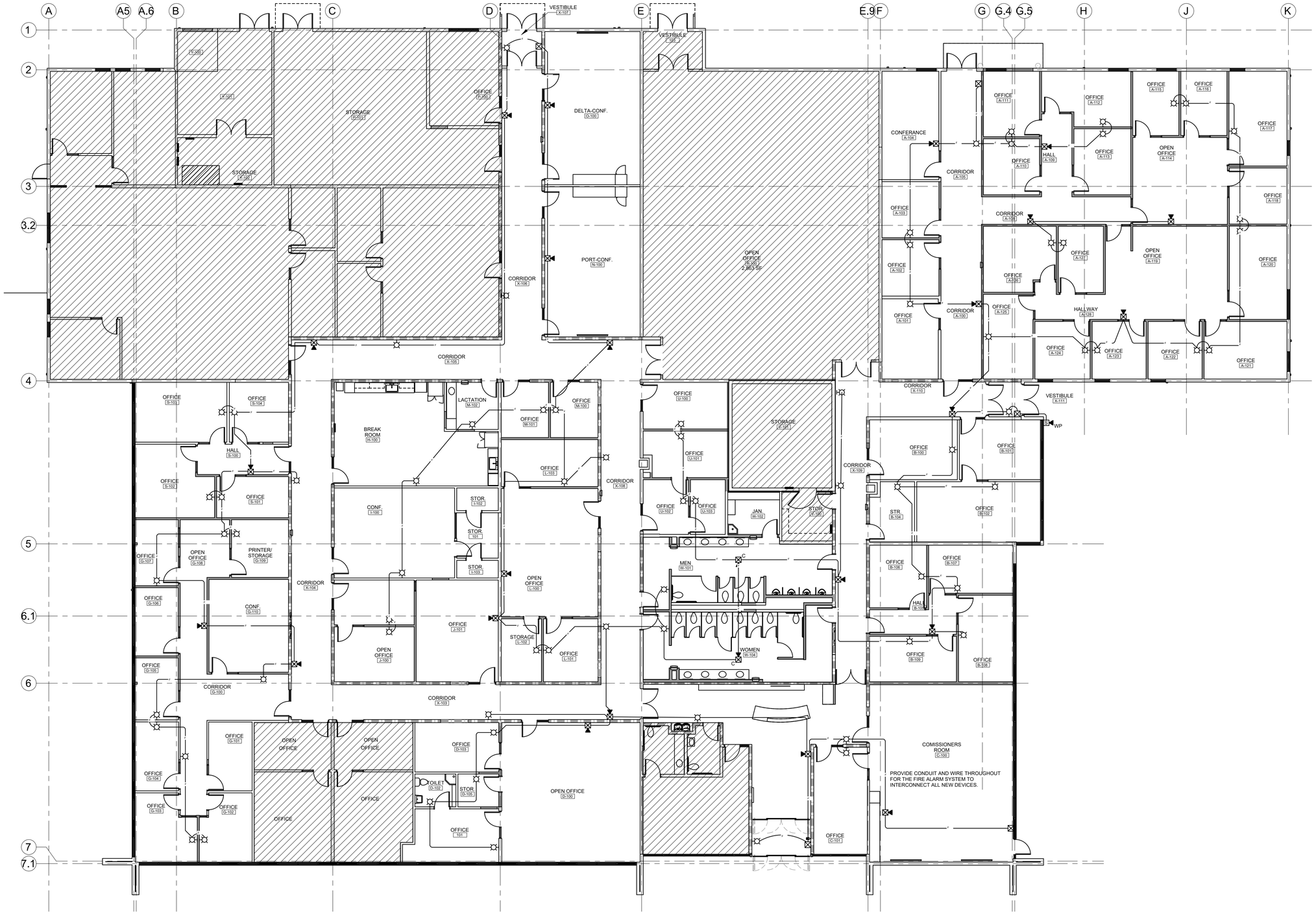

FIRE ALARM FLOOR PLAN

SCALE: 1/8"=1'-0"

NORTH

FIRE ALARM CRITERIA DRAWING:

CONTRACTOR SHALL PRODUCE DEFERRED APPROVAL SHOP DRAWINGS FOR A MANUAL FIRE ALARM SYSTEM, TIE INTO THE EXISTING FIRE ALARM CONTROL PANEL. PROVIDE MANUAL PULL STATIONS AT ALL DOORS IN THE SCOPE OF WORK AND A/V HORN/STROBES IN THE AREA OF WORK.
MONITOR THE DUCT SMOKE DETECTORS ON THE ROOF.

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Bhupendra Patel, PE bhupendra@hcs-eng.com
PROJECT # 2024.289.1

NOT FOR CONSTRUCTION

RICHARD C. SMITH No. 18000 ELECTRICAL STATE OF CALIFORNIA

PUBLISH HISTORY:

	DATE	PURPOSE
0	10/08/25	INITIAL SUBMITAL
1	10/29/25	COORDINATION
2	12/12/25	PLAN CHECK #1
3	02/12/26	PLAN CHECK #2
4	08.31.26	BID SET

FIRE ALARM FLOOR PLAN

3

E5.0

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: PORT 315 PHASE 2	**Report Page:** (Page 1 of 9)
Project Address: 315 FYFFE AVENUE	**Date Prepared:** 4/25/2025

A. GENERAL INFORMATION

01	Project Location (city)	STOCKTON	04 Total Conditioned Floor Area (ft²)	24,630
02	Climate Zone	12	05 Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

● Convention Center ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	24630	Area Category Method	0
Total Area of Work (ft²)	24630		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: PORT 315 PHASE 2	**Report Page:** (Page 2 of 9)
	Date Prepared: 4/25/2025

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)					Compliance Results
	01	02	03	04		05	06	07		08		09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments		**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)				
Conditioned		14,248.6	0		=	14,249	≥ 13,506	0	=	13506		COMPLIES
Unconditioned					=		≥		=			
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: PORT 315 PHASE 2	**Report Page:** (Page 3 of 9)
	Date Prepared: 4/25/2025

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How is Wattage determined	07 Total Number of Luminaires	08 Excluded per 140.6(a)3 / 170.2(e)2C	09 Design Watts	10 Field Inspector Pass	10 Field Inspector Fail
A	2X4 4000L	No	NA	30	Mfr. Spec	112	No	3,360	☐	☐
B	2X4 6000L	No	NA	46	Mfr. Spec	142	No	6,532	☐	☐
C	2X4 7500L	No	NA	55	Mfr. Spec	32	No	1,760	☐	☐
D	2X4 13000L	No	NA	90	Mfr. Spec	2	No	180	☐	☐
F	1X4 WRAP 4000L	No	NA	35	Mfr. Spec	19	No	665	☐	☐
G	2X4 4500L	No	NA	35	Mfr. Spec	16	No	560	☐	☐
H	6" RDL 1500L	No	NA	15.5	Mfr. Spec	29	No	449.5	☐	☐
					Total Designed Watts: CONDITIONED SPACES			13,505		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03 Field Inspector Pass	03 Field Inspector Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

Area Level Controls

04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Manual Area Controls 130.1(a) / 160.5(b)4A	07 Multi-Level Controls 130.1(b) / 160.5(b)4B	08 Shut-Off Controls 130.1(c) // 160.5(b)4C	09 Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	10 Secondary Daylighting 130.1(d) / 160.5(b)4D	11 Interlocked Systems 140.6(a)1/ 170.2(e)2A	12 Field Inspector Pass	12 Field Inspector Fail
OFFICE < 250 SQ FT	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
CORRIDOR	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
CONFERENCE ROOM	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
LARGE STORAGE	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
LARGE OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
MAIN ENTRY	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
LOUNGE BREAKROOM	Lounge	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

SMALL STORAGE	All Other Space Types	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
RESTROOM	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Rm < 24sf Glazing	Included	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowance / Adjustment Area Category	06 Additional Allowance / Adjustment PAF
OFFICE<250SQ FT	Office (<=250 square feet)	0.65	7,278	4,730.7	No	No
CORRIDOR	Corridor	0.4	4,559	1,823.6	No	No
CONFERENCE ROOM	Convention, Conference, Multipurpose and Meeting Center	0.75	2,142	1,606.5	No	No
LARGE STORAGE	All Other Space Types	0.4	1,341	536.4	No	No
LARGE OFFICE	Office (>250 square feet)	0.6	7,108	4,264.8	No	No
MAIN ENTRY	All Other Space Types	0.7	190	133	No	No
LOUNGE BREAKROOM	Lounge	0.55	572	314.6	No	No
SMALL STORAGE	All Other Space Types	0.4	388	155.2	No	No
RESTROOM	Restroom	0.65	1,052	683.8	No	No
		TOTALS:	24,630	14,248.6	See Tables J, or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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	Date Prepared: 4/25/2025

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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	Date Prepared: 4/25/2025

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: PORT 315 PHASE 2	**Report Page:** (Page 8 of 9)
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V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	OFFICE < 250 SQ FT; CORRIDOR ; CONFERENCE ROOM ; LARGE STORAGE ; LARGE OFFICE ; MAIN ENTRY ; LOUNGE BREAKROOM ; SMALL STORAGE ; RESTROOM ;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	RESTROOM ;

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: PORT 315 PHASE 2	**Report Page:** (Page 9 of 9)
Project Address: 315 FYFFE AVENUE	**Date Prepared:** 4/25/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: BHUPENDRA PATEL	Documentation Author Signature:
Company: HCS Engineering, Inc.	Signature Date: 2025-04-25
Address: 4512 Feather River Dr #F	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Stockton CA 95219	Phone: 2094788270

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Richard Smith	Responsible Designer Signature:
Company: HCS Engineering	Date Signed: 2025-04-25
Address: 4512 Feather River Dr #F	License:
City/State/Zip: Stockton CA 95219	Phone: 2094788270

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PROJECT # 2024.289.1

NOT FOR CONSTRUCTION

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INDOOR LIGHTING COMPLIANCE

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