

THE DESIGNS, IDEAS, AND ARRANGEMENTS SHOWN ON THIS SHEET, ALONG WITH THE ACCOMPANYING SPECIFICATIONS ARE THE PROPERTY OF MCFARLANE ARCHITECTS, INC., AND MAY ONLY BE USED IN ASSOCIATION WITH THIS PROJECT AND MAY NOT BE USED IN ANY OTHER MANNER OR CHANGED WITHOUT THE EXPRESSED WRITTEN CONSENT OF MCFARLANE ARCHITECTS, INC., AS AGREED TO PER THE OWNER-ARCHITECT AGREEMENT.
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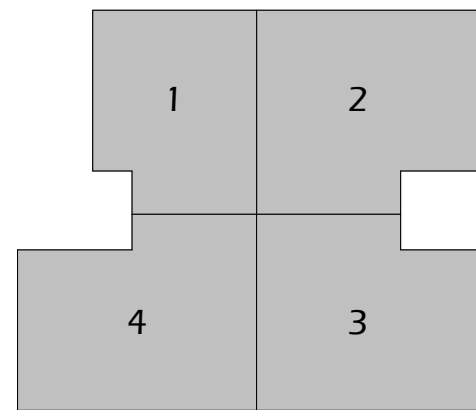


FLOOR PLAN - LEVEL 8 OVERALL
3/32" = 1'-0"

1
A280

01-31-2024	BULLETIN 01
04-01-2022 8.2	PERMIT RESUBMITTAL
03-21-2022 8.1	PERMIT RESUBMITTAL
02-02-2022	PERMIT SUBMITTAL
11-15-2021	DESIGN DEVELOPMENT
08-27-2021	SCHEMATIC DESIGN
DATE	REASON
PROJECT NO	21-117-23

KEY PLAN



TENANT IMPROVEMENTS
CONSTRUCTION DOCUMENTS
SHEET TITLE

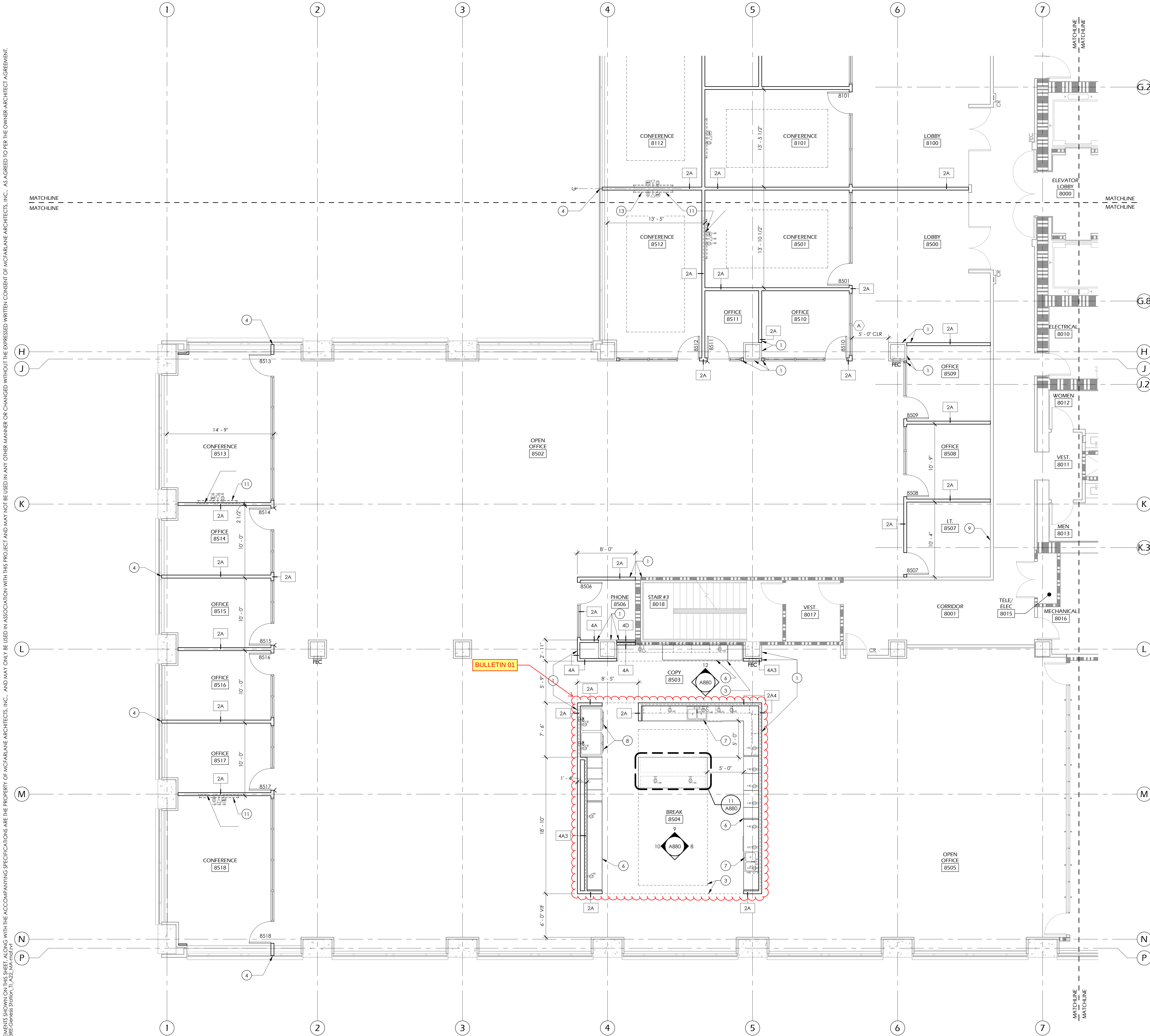
FLOOR PLAN -
LEVEL 8
OVERALL

SHEET NUMBER

A280

CP-8

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GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING DIMENSIONS, ELEVATIONS, & UTILITY LOCATIONS IN FIELD PRIOR TO START OF WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE DOCUMENTS AND EXISTING CONDITIONS.
- SEE WALL TYPE & WALL FRAMING DETAIL SHEETS FOR TYPICAL WALL TYPES AND FRAMING DETAILS.
- DIMENSIONS ARE TO OUTSIDE FACE OF DRYWALL, UNO - PANELING, TILE & OTHER ATTACHMENTS ARE IN ADDITION THEREOF.
- SEE STRUCTURAL, MECHANICAL, PLUMBING, & ELECTRICAL DRAWINGS FOR RELATED WORK. CONTRACTOR TO COORDINATE ALL SUB-TRADES.
- CONTRACTOR TO FILL AND PATCH ALL LOCATIONS OF EXISTING & NEW UTILITY PENETRATIONS THRU THE FLOOR.
- SCREENED LINES INDICATE EXISTING CONSTRUCTION. CONTRACTOR TO VERIFY CONDITION OF EXISTING WALLS, PATCH / REPAIR AS REQUIRED AND PAINT PER FINISH SCHEDULE.
- SEE DRAWINGS WITH 'F' SUFFIX FOR FINISH INFORMATION.
- ALL WALLS SHALL BE LEVEL 4 DRYWALL FINISH UNO.
- ALL ROOMS REQUIRING A ROOM IDENTIFICATION SIGN SHALL BE PROVIDED WITH BRAILLE IN COMPLIANCE WITH CBC 11B-703. SEE MOUNTING HEIGHTS SCHEDULE SHEET.
- ALL ELECTRICAL, PHONE, & DATA OUTLETS TO BE MOUNTED AT 18" AFF UNO.
- CONTRACTOR TO PROVIDE JOINT SEALANT AS REQUIRED BY CODE AND INDUSTRY STANDARD INCLUDING BUT NOT LIMITED TO THE FOLLOWING LOCATIONS:
AT EXPOSED JOINTS BETWEEN RECESSED ELEMENTS, PLUMBING FIXTURES, WINDOW/DOOR FRAMES, SURFACE MOUNTED RACEWAYS, & EXPOSED SURFACES SUCH AS WALLS, FLOORS, CEILINGS, OR COUNTERTOPS. PROVIDE MILDEW RESISTANT SEALANT AT ALL WET LOCATIONS.

SYMBOL LEGEND

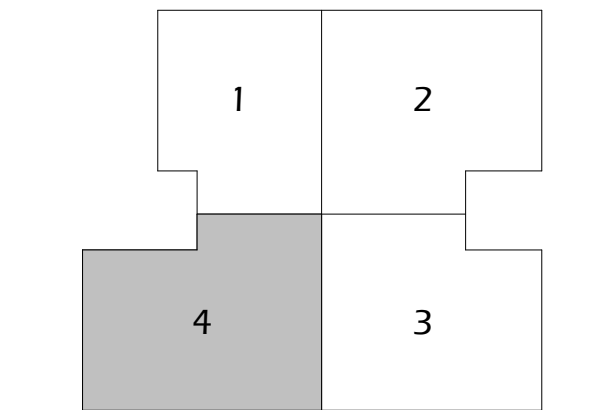
- CARD READER: CONTRACTOR TO PROVIDE RING & STRING AND JUNCTION BOX FOR FUTURE TITF DEVICE & WIRING. SEE MOUNTING HEIGHT SCHEDULE SHEET, HARDWARE GROUP, & ELECTRICAL DRAWINGS
- WALL TYPE - SEE WALL TYPE SHEET
- WINDOW TYPE - SEE WINDOW SCHEDULE SHEET
- LAB BENCH TYPE - SEE LAB INTERIOR ELEVATIONS SHEET
- EXISTING NON-RATED WALL ASSEMBLY TO REMAIN
- EXISTING 1 HOUR FIRE BARRIER TO REMAIN
- EXISTING 2 HOUR FIRE BARRIER TO REMAIN
- NON-RATED WALL, SEE REFERENCED WALL TYPE & REFLECTED CEILING PLAN FOR FULL HEIGHT WALLS
- 1 HOUR FIRE BARRIER - SEE REFERENCED WALL TYPE
- 2 HOUR FIRE BARRIER - SEE REFERENCED WALL TYPE
- FIRE SPRINKLERS AT EACH SIDE OF GLAZING. ALTERNATE 2-HOUR FIRE RESISTIVE RATING PER ESR 2397
- CONTROL JOINT - SEE DETAIL 8/A011
- CORNER & WALL CAP GUARDS, AS SHOWN - SEE DETAILS 1/A931 & 2/A931
- PROVIDE FLATSTRAP WALL BACKING AT THE FOLLOWING LOCATIONS:
1. WALL MOUNTED LCD SCREENS - SEE DETAIL 3/A011
2. WALL MOUNTED SHELVING - SEE DETAIL 3/A011
3. WALL MOUNTED UPPER CASEWORK - SEE DETAIL 3/A011
- RECESSED FIRE EXTINGUISHER CABINET: SEE FIRE DEPARTMENT NOTES & DETAIL 6/A011
- WALL MOUNTED FIRE EXTINGUISHER: SEE FIRE DEPARTMENT NOTES FOR TYPE
- SCHEDULED DOOR: SEE DOOR SCHEDULE
- DUPLEX OUTLET: SEE ELECTRICAL DRAWINGS
+XX INDICATES SPECIFIC MOUNTING HEIGHT (IN INCHES), WHERE SHOWN
- RECEPTACLE ON EMERGENCY STANDBY POWER - WHERE SHOWN QUAD RECEPTACLE - SEE ELECTRICAL DRAWINGS
+XX INDICATES SPECIFIC MOUNTING HEIGHT (IN INCHES), WHERE SHOWN
- DATA CONNECTION: RECESSED IN WALL - SEE ELECTRICAL
+XX INDICATES SPECIFIC MOUNTING HEIGHT (IN INCHES), WHERE SHOWN
- AV BOX: RECESSED IN WALL - SEE ELECTRICAL
+XX INDICATES SPECIFIC MOUNTING HEIGHT (IN INCHES), WHERE SHOWN
- THERMOSTAT: RECESSED IN WALL - SEE MECHANICAL
- RECESSED COLD WATER ICE MAKER BOX: SEE PLUMBING DRAWINGS
- SURFACE MOUNTED RACEWAY, DUAL-CHANNEL CENTER MOUNTED AT +44" AFF (EXCEPT AT PERIMETER EXTERIOR WALLS, ALIGN TOP OF RACEWAY WITH TOP OF LOW WALL FURRING). CAULK TO WALL WITH PAINTABLE, MOLD AND MILDEW RESISTANT SILICONE CAULKING. SEE DETAIL: 4/A941; WITH RECEPTACLES:
(1) DUPLEX, 5-20R, NORMAL POWER @ EVERY 2' - 0" OC
(1) DUPLEX, 5-20R, EMERGENCY POWER @ EVERY 8' - 0" OC
(1) DATA DROP @ EVERY 6' - 0" OC
SPECIAL POWER PER PLAN
- EMERGENCY SHOWER & EYEWASH STATION: RECESSED - SEE PLUMBING DRAWINGS & DETAILS 1/A941, 2/A941, & 3/A941
- MOP SINK - SEE PLUMBING DRAWINGS
- LAB SINK
EYEWASH - SEE PLUMBING FOR PIPING & CONNECTIONS
PIPE/W/ FITTING
BLADE HANDLES AT ADA-DESIGNATED SINKS, AS SHOWN
DI FITTING, AS SHOWN - FOR ITF UNDER COUNTER DI UNIT
LAB SINK, CRD55: 25W X 15"D X 10"D - SEE PLUMBING FOR PIPING & CONNECTIONS
FOOT PEDALS, WHERE OCCURS
- DUAL SIDED DECK MOUNTED LAB GAS TURRET - SEE LAB INTERIOR ELEVATIONS FOR LAB FURNISHING ABBREVIATIONS

KEYNOTES

- ALIGN NEW WALL CONSTRUCTION WITH EXISTING AND/OR NEW CONSTRUCTION - CREATE A SEAMLESS INTERFACE BETWEEN NEW AND EXISTING CONSTRUCTION WHERE OCCURS
- PROVIDE 5/8" TYPE 'X' GPDW OVER METAL STUD FRAMING OR HAT CHANNELS AS REQUIRED TO FLUSH OUT WALL W/ ADJACENT COLUMN FURRING - SEE ALSO ADJACENT WALL TYPES
- SOFFIT ABOVE - SEE REFLECTED CEILING PLAN
- PROVIDE FALSE COMPRESSION MULLION WITH AN STC OF 38 MIN TO MATCH EXISTING EXTERIOR WINDOW SYSTEM PER DETAIL 19/A011
- LAB MOBILE CASEWORK - PROVIDE (1) SET OF COMPRESSED AIR AND VACUUM TURRETS AT EACH SIDE OF THE "SHORT" WIDTH SIDE OF THE UMBILICAL:
- 8'-0" LONG BENCH - PROVIDE (2) NORMAL POWER 20 AMP & (1) STANDBY POWER CIRCUITS PER ISLAND BENCH
- 14'-0" - 18'-0" LONG BENCH - PROVIDE (2) NORMAL POWER 20 AMP & (1) STANDBY POWER CIRCUITS PER ISLAND BENCH
- 20'-0" - 24'-0" LONG BENCH - PROVIDE (3) NORMAL POWER 20 AMP & (1) STANDBY POWER CIRCUITS PER ISLAND BENCH
SEE ALSO LAB BENCH ELEVATIONS & PLUMBING AND ELECTRICAL DRAWINGS
- ARCHITECTURAL MILLWORK - SEE ARCHITECTURAL INTERIOR ELEVATIONS
- DOUBLE BASIN SINK WITH GARBAGE DISPOSAL - SEE PLUMBING DRAWINGS
- CFCI REFRIGERATOR WITH CFCI WATER BOX FOR ICE MAKER AND FILTERED WATER AT REFRIGERATOR - SEE ELECTRICAL AND PLUMBING FOR CONNECTIONS
- 3/4" FIRE-RETARDANT-TREATED PLYWOOD BACKER BOARD - MOUNT (1) 4X8 SHEET VERTICAL ON WALL W/ BOTTOM @ 12" AFF
- 6'-0" NOMINAL WIDE CHEMICAL FUME HOOD, CFCI, WITH:
(1) VACUUM TURRET PER POLE
(1) COMPRESSED AIR PER POLE
- NORMAL POWER WITH (1) DUPLEX PER POLE
(1) 3'-0" FLAMMABLE CABINET & (1) 3'-0" ACID CABINET
SEE LAB INTERIOR ELEVATIONS AND DETAIL 10/A941 - FOR ANCHORAGE. SEE DETAIL 12/A941
- TENANT PROVIDED FLAT SCREEN W/ CFCI POWER, DATA, & HDMI CONNECTIONS - SEE DETAIL 11/A931
- CURB AT MOP SINK PER DETAIL 13/A941
- PROVIDE PORTABLE ASSISTIVE-LISTENING SYSTEM PER CBC 11B-219 & ALSO PROVIDE A SIGN THAT STATES "ASSISTIVE-LISTENING SYSTEM AVAILABLE" POSTED IN A PROMINENT PLACE AT OR NEAR THE ASSEMBLY ENTRANCE PER CBC 11B-216.10

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KEY PLAN



TENANT IMPROVEMENTS
CONSTRUCTION DOCUMENTS
SHEET TITLE

FLOOR PLAN -
LEVEL 8
ENLARGED AREA
4

SHEET NUMBER
A284
CP-8

FLOOR PLAN - LEVEL 8 ENLARGED AREA 4

3/16" = 1'-0"

1
A284

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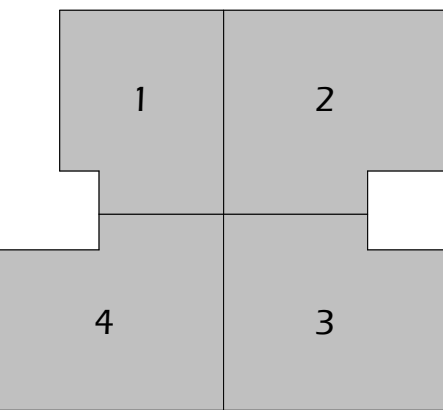


REFLECTED CEILING PLAN - LEVEL 8 OVERALL
3/32" = 1'-0"

1
A680

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04-01-2022 8.2	PERMIT RESUBMITTAL
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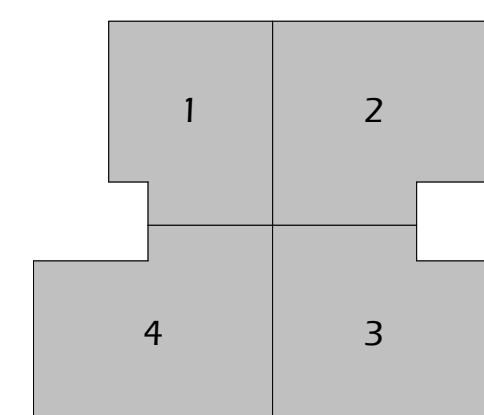
KEY PLAN



TENANT IMPROVEMENTS
CONSTRUCTION DOCUMENTS
SHEET TITLE
REFLECTED
CEILING PLAN -
LEVEL 8
OVERALL

SHEET NUMBER
A680
CP-8

KEY PLAN



FLOOR PLAN -
LEVEL 7
OVERALL

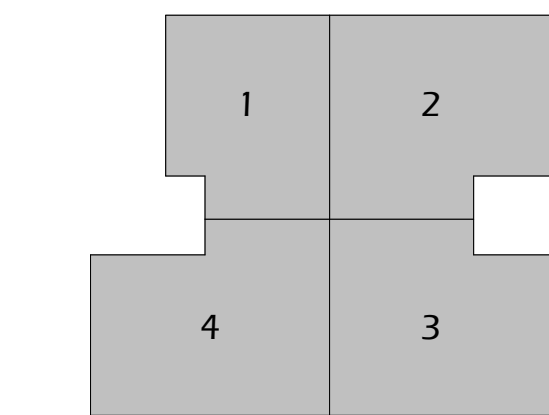
SHEET NUMBER
A270
CP-7


$$3/32'' = 1'-0''$$

1
A670

01-31-2024		BULLETIN 01
04-01-2022	7.2	PERMIT RESUBMITTAL
03-21-2022	7.1	PERMIT RESUBMITTAL
02-02-2022		PERMIT SUBMITTAL
11-15-2021		DESIGN DEVELOPMENT
08-27-2021		SCHEMATIC DESIGN
DATE		REASON
PROJECT NO		21-117-23

KEY PLAN

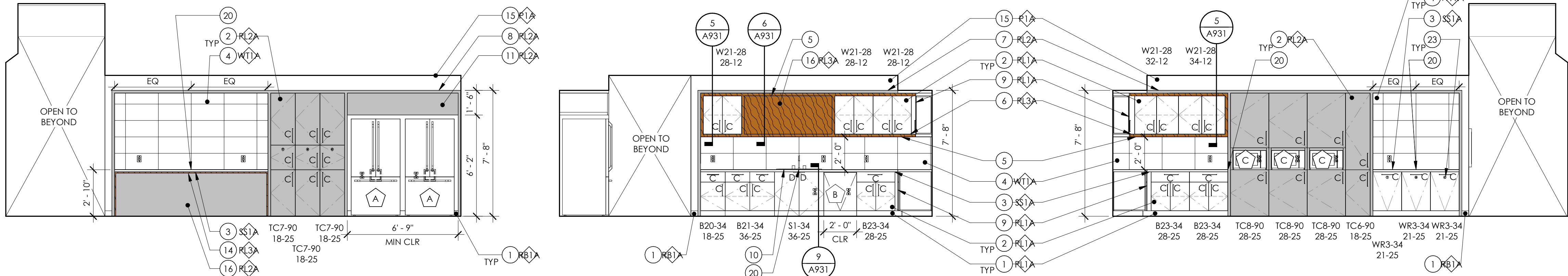


TENANT IMPROVEMENTS
CONSTRUCTION DOCUMENTS
SHEET TITLE

REFLECTED
CEILING PLAN -
LEVEL 7
OVERALL

SHEET NUMBER
A670
CP-7

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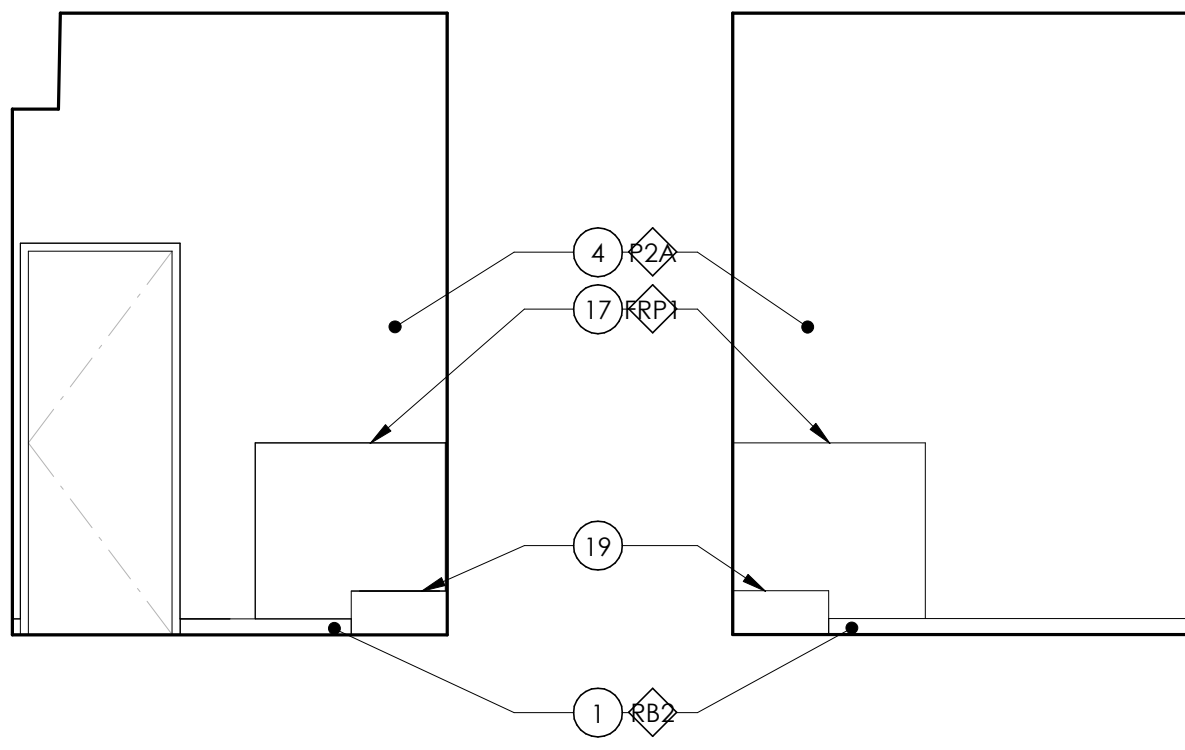


8105 BREAK
SCALE: 1/4" = 1'-0"

8105 BREAK
SCALE: 1/4" = 1'-0"

8105 BREAK
SCALE: 1/4" = 1'-0"

8105 BREAK
SCALE: 1/4" = 1'-0"



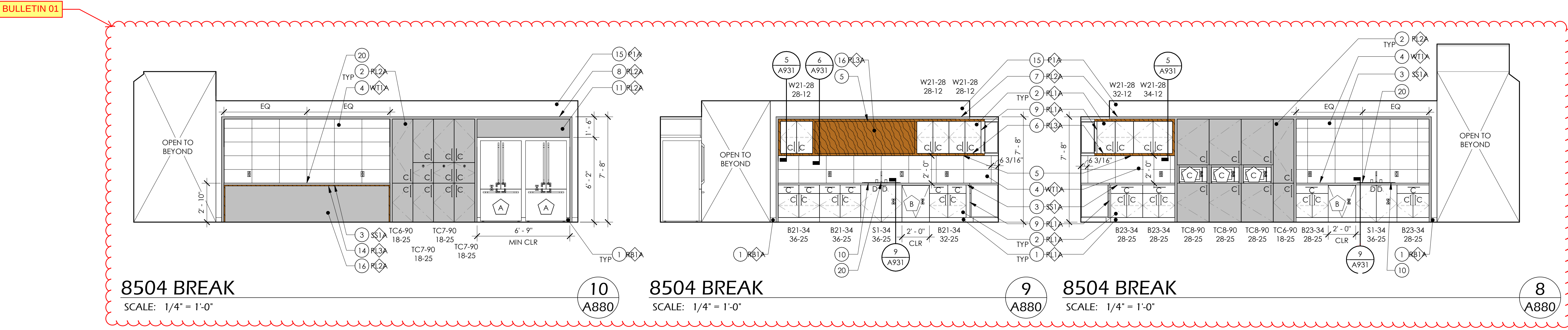
8203 JANITOR
SCALE: 1/4" = 1'-0"

8203 JANITOR
SCALE: 1/4" = 1'-0"

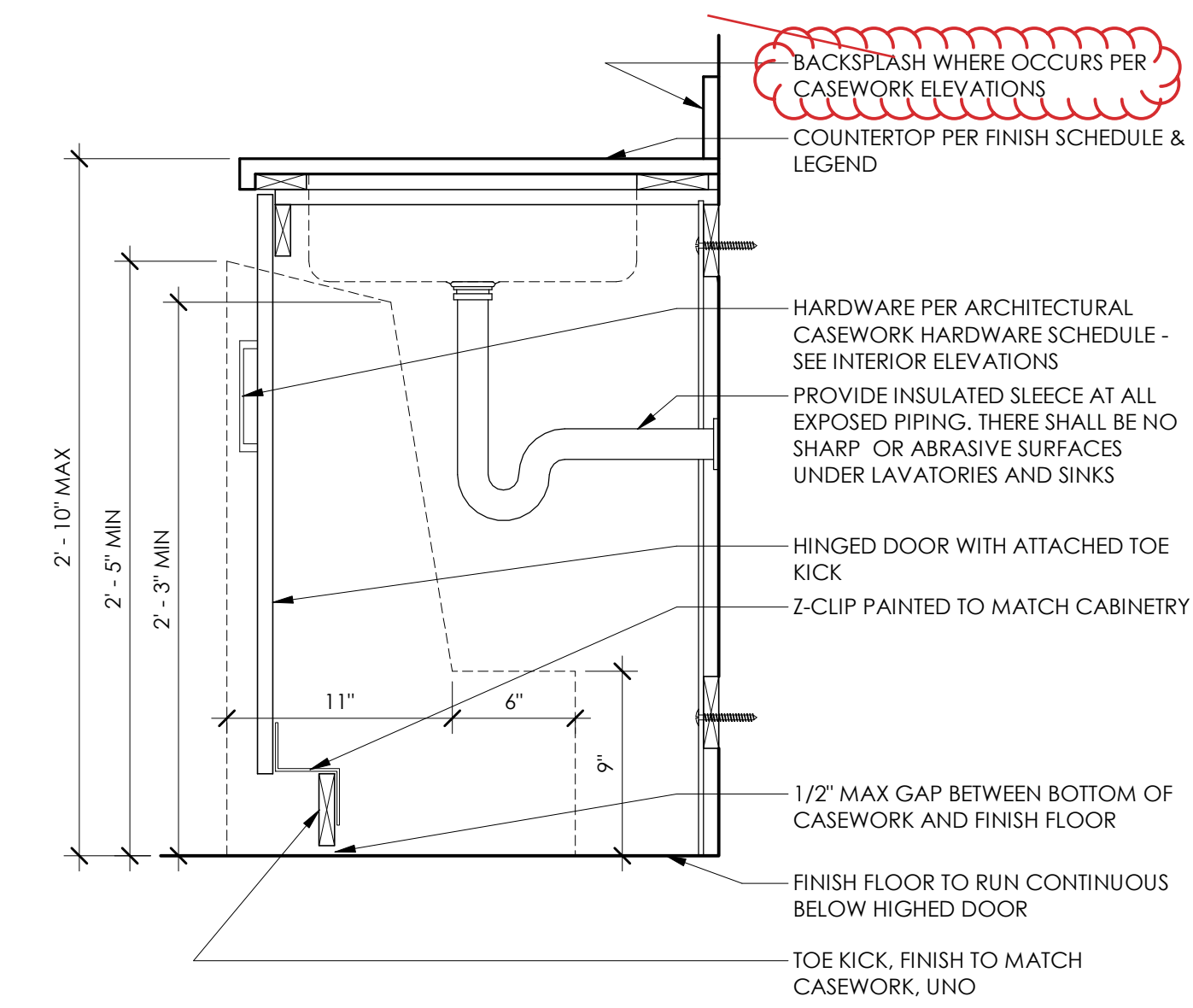
8103 COPY
SCALE: 1/4" = 1'-0"

8105 BREAK COUNTER
SCALE: 1/4" = 1'-0"

8105 BREAK COUNTER
SCALE: 1/4" = 1'-0"

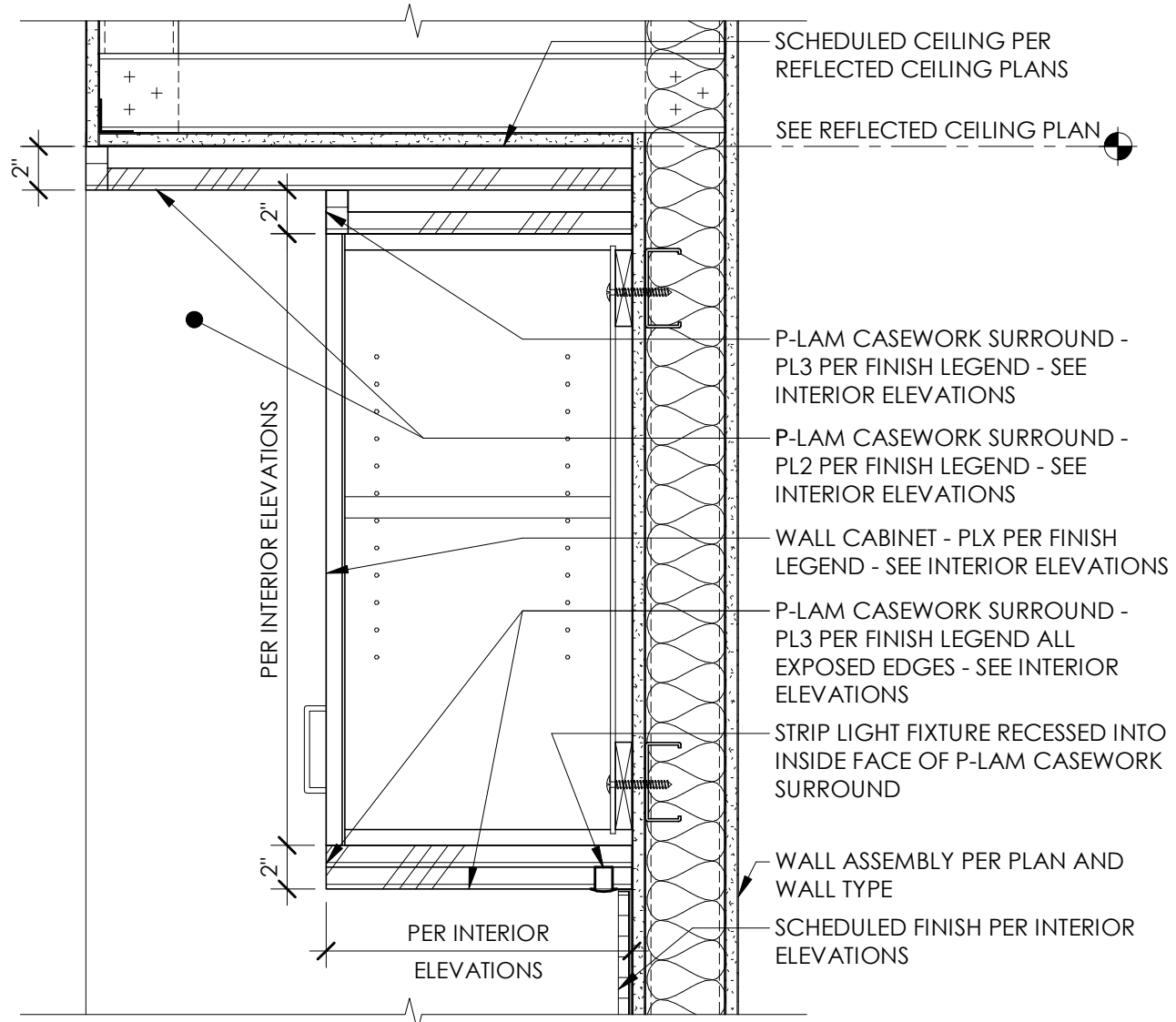


BULLETIN 01



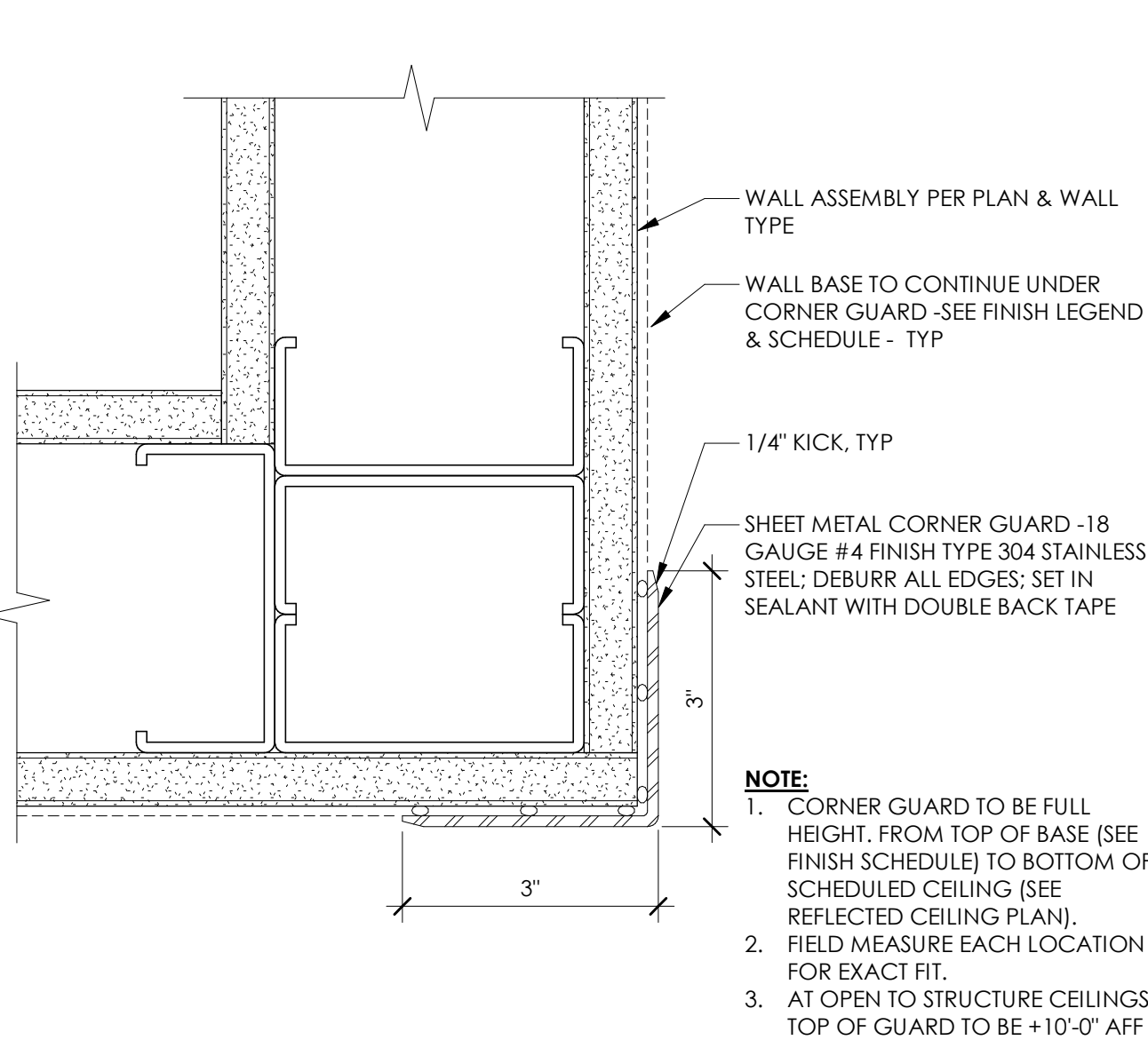
ADA SINK DETAIL
SCALE: 1 1/2" = 1'-0"

9
A931



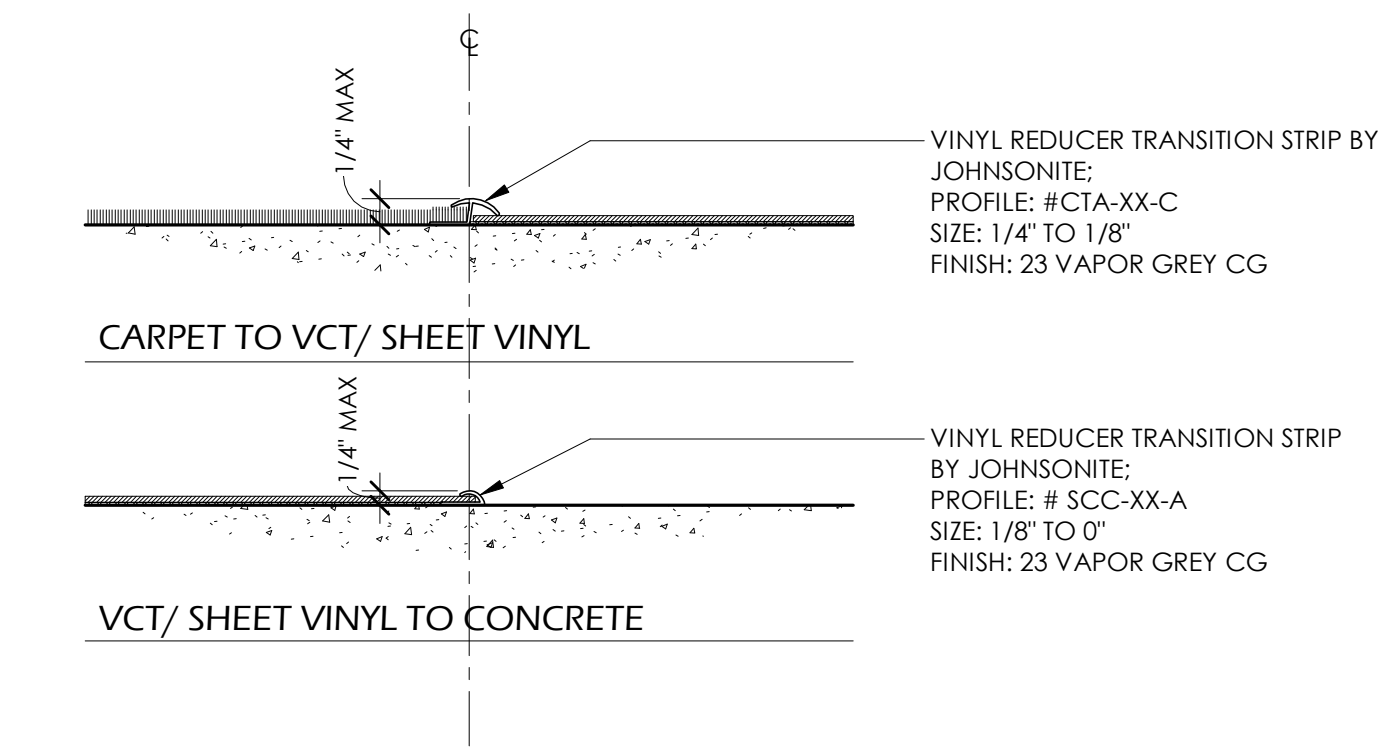
CASEWORK SURROUND @ CABINET W/ UNDER CABINET LIGHTING
SCALE: 1 1/2" = 1'-0"

5
A931



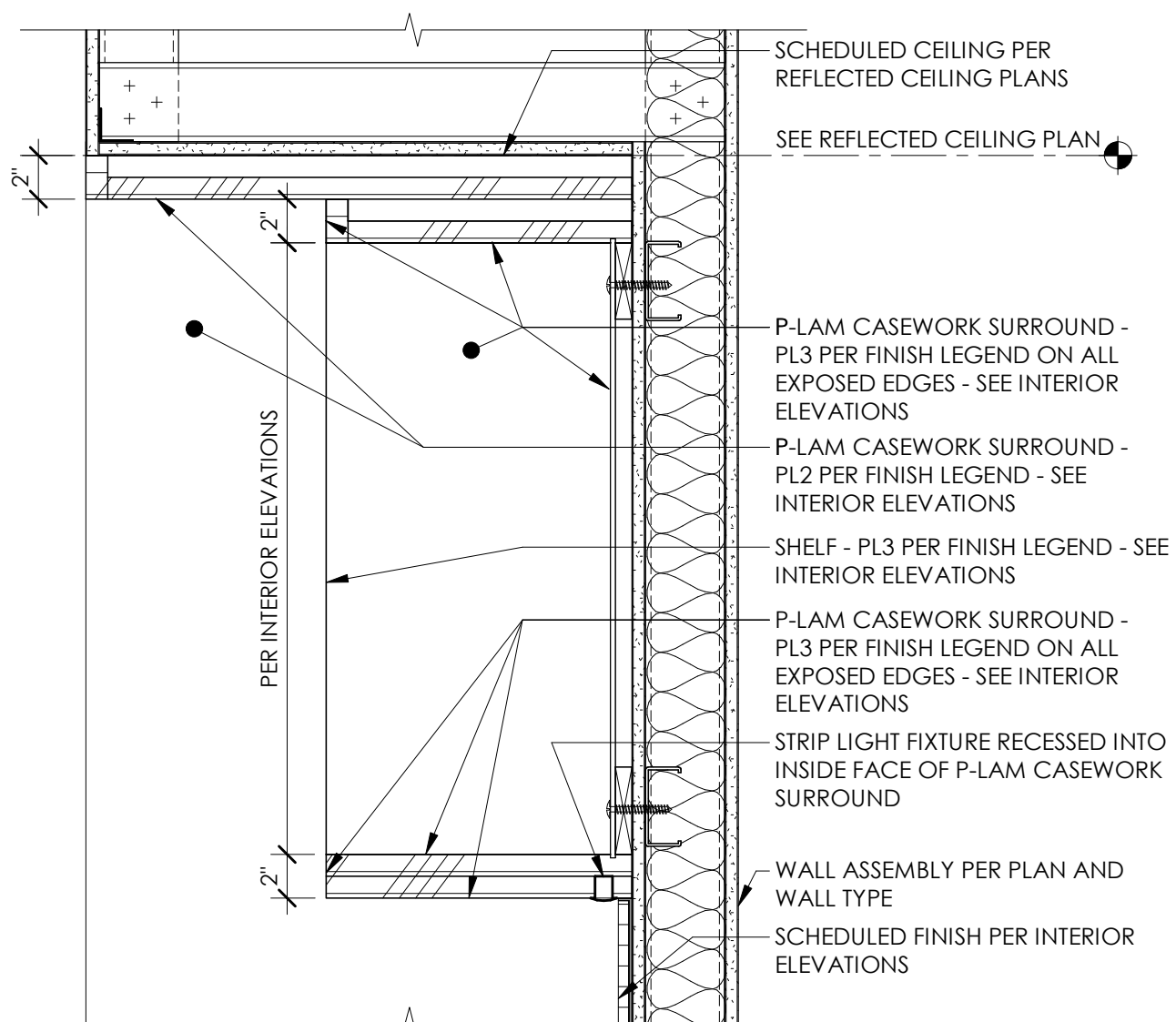
CORNER GUARD
SCALE: 6" = 1'-0"

1
A931



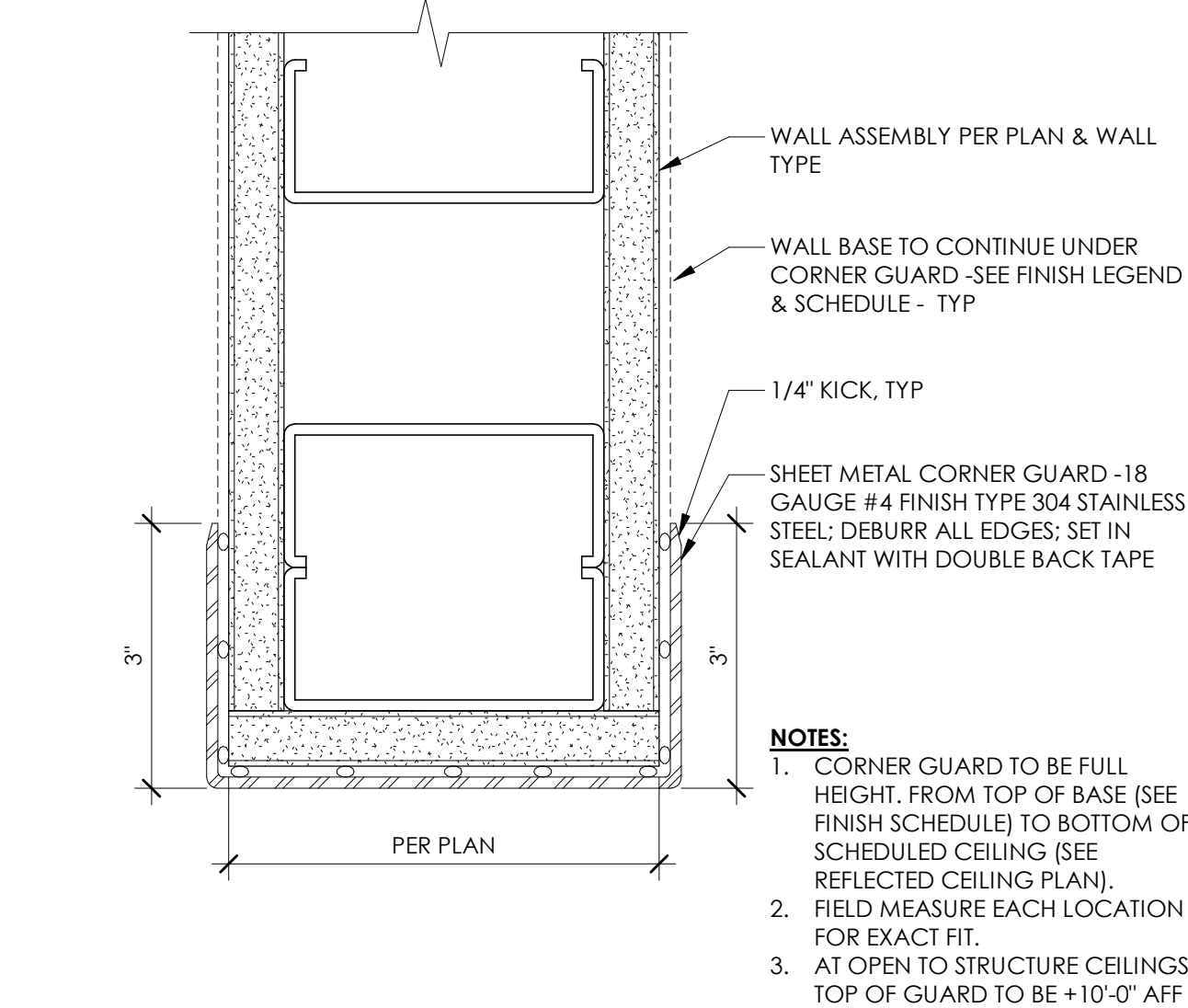
FLOORING TRANSITIONS
SCALE: 3" = 1'-0"

10
A931



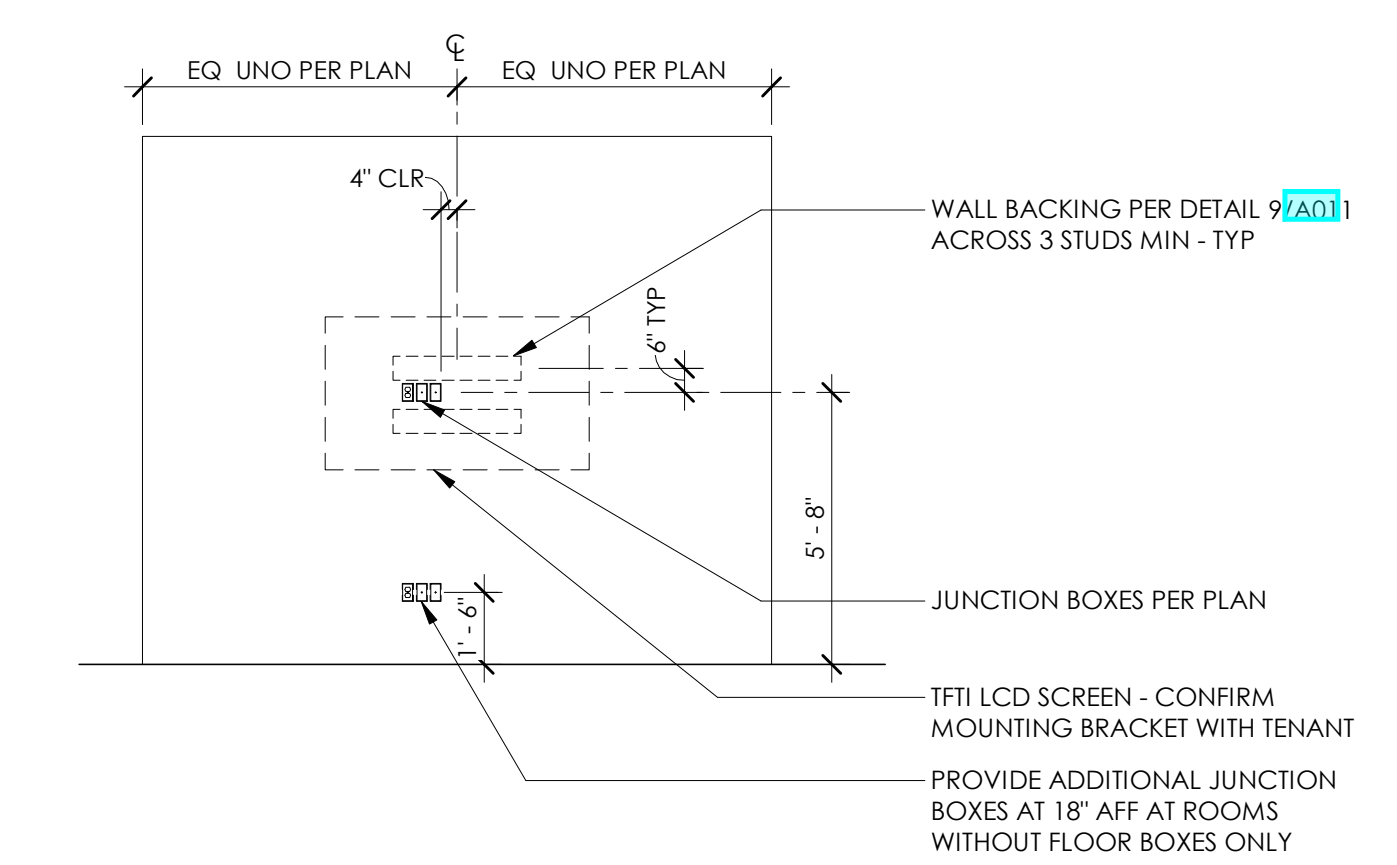
CASEWORK SURROUND @ SHELF W/ UNDER CABINET LIGHTING
SCALE: 1 1/2" = 1'-0"

6
A931



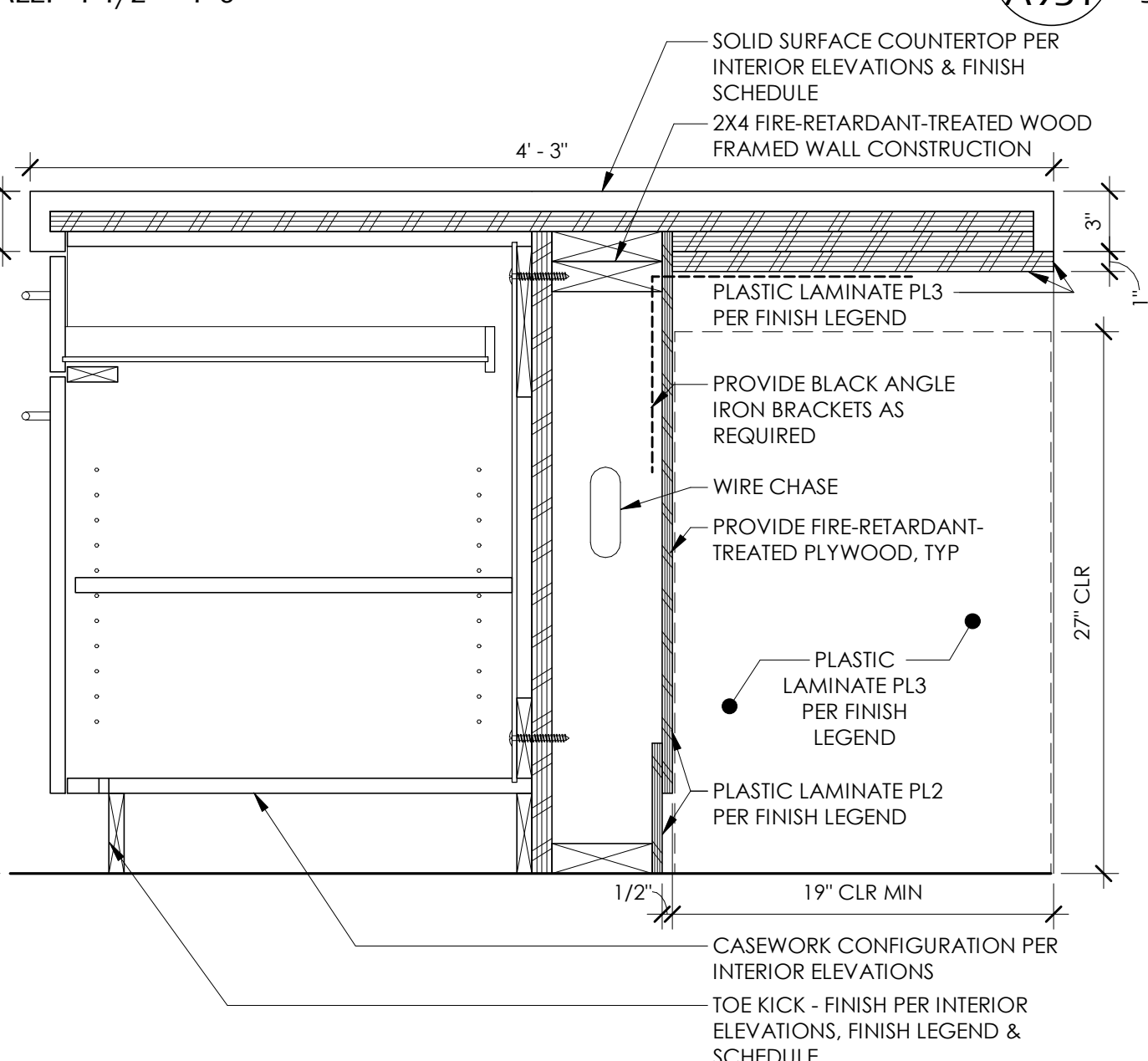
CORNER GUARD
SCALE: 6" = 1'-0"

2
A931



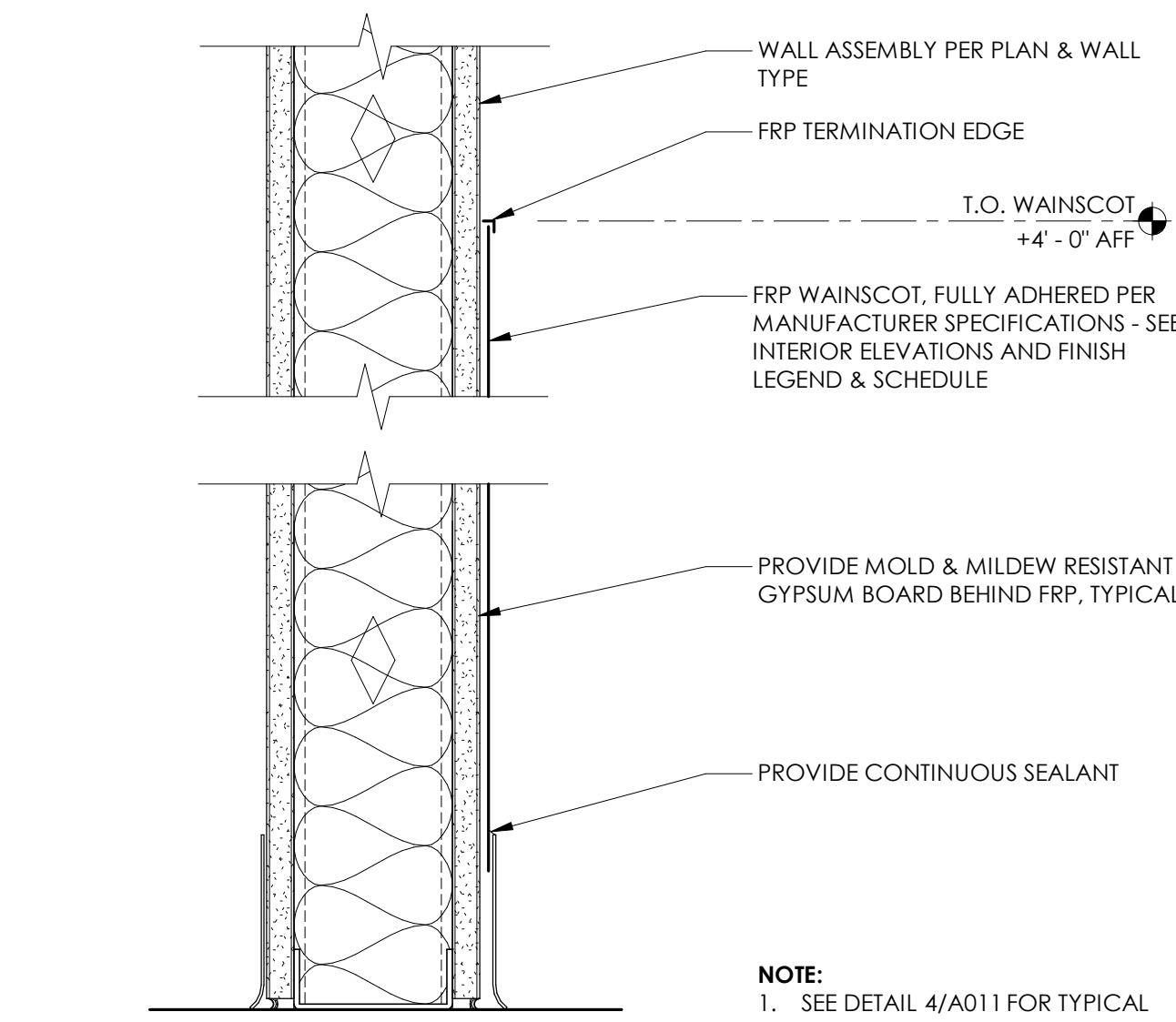
CONFERENCE ROOM WALL BACKING & J-BOX FOR TFTI LCD SCREEN
SCALE: 1/4" = 1'-0"

11
A931



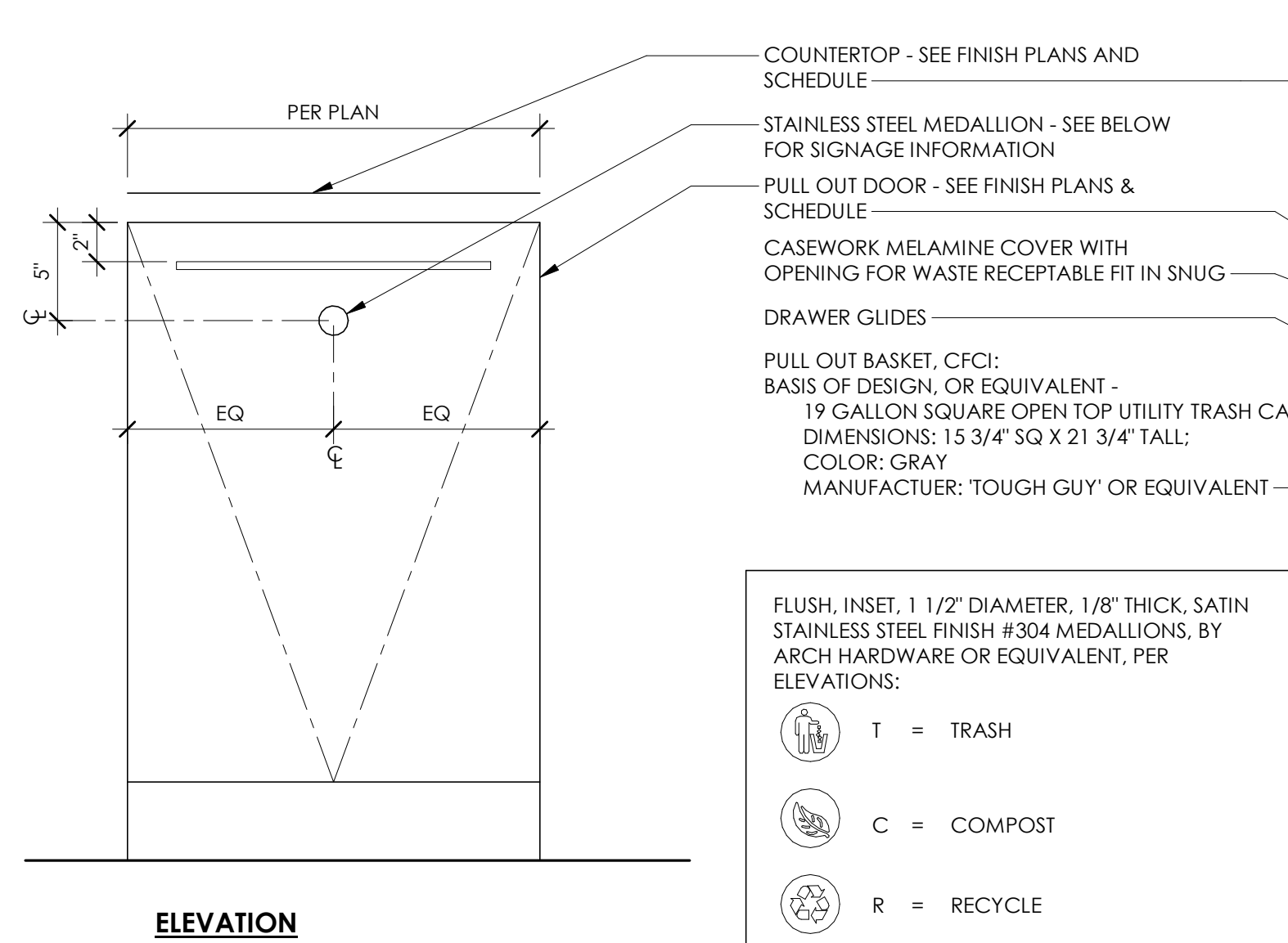
COUNTERTOP DETAIL
SCALE: 1 1/2" = 1'-0"

7
A931

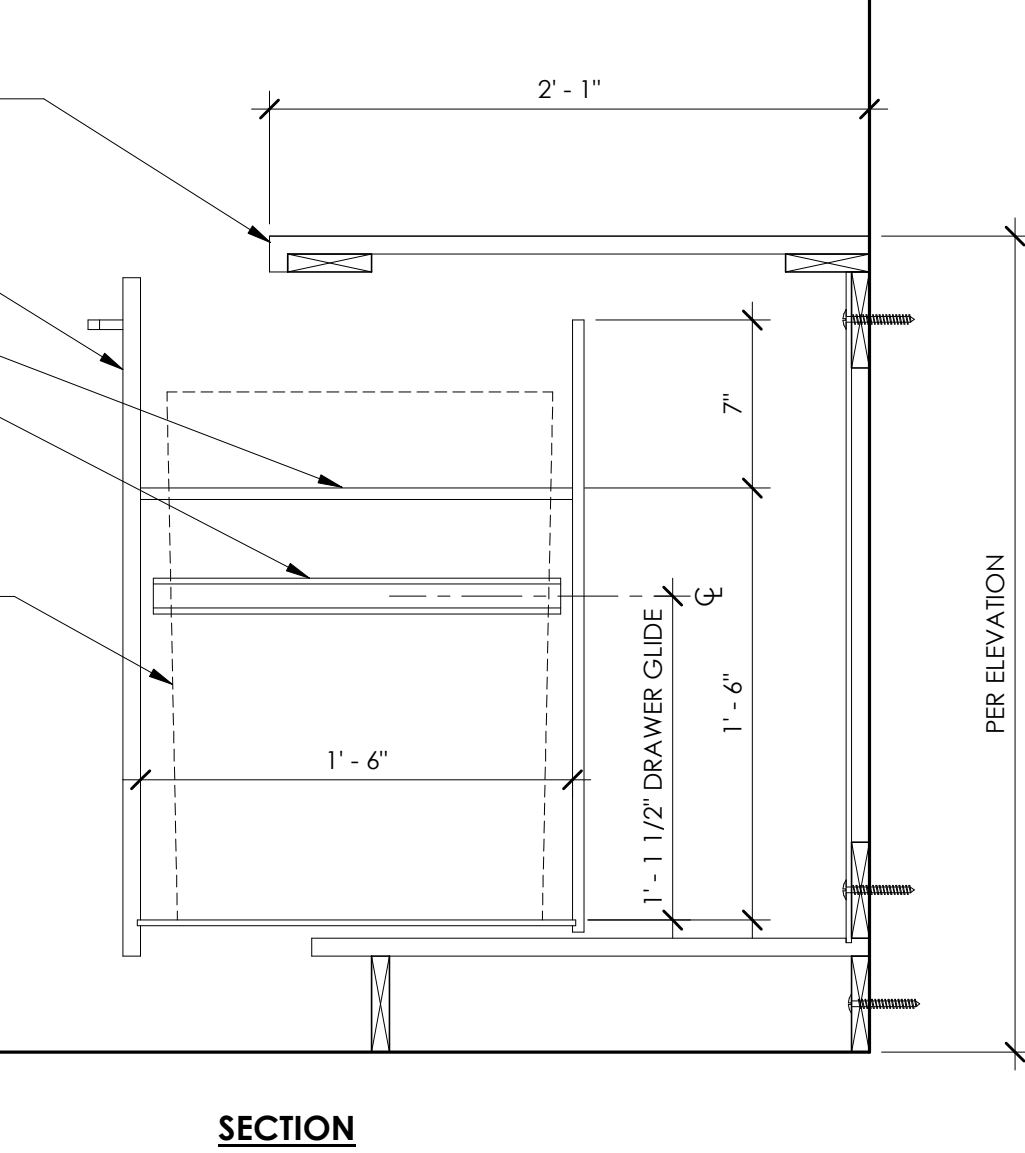


FRP WALL BASE/ WAINSCOT DETAIL
SCALE: 3" = 1'-0"

3
A931

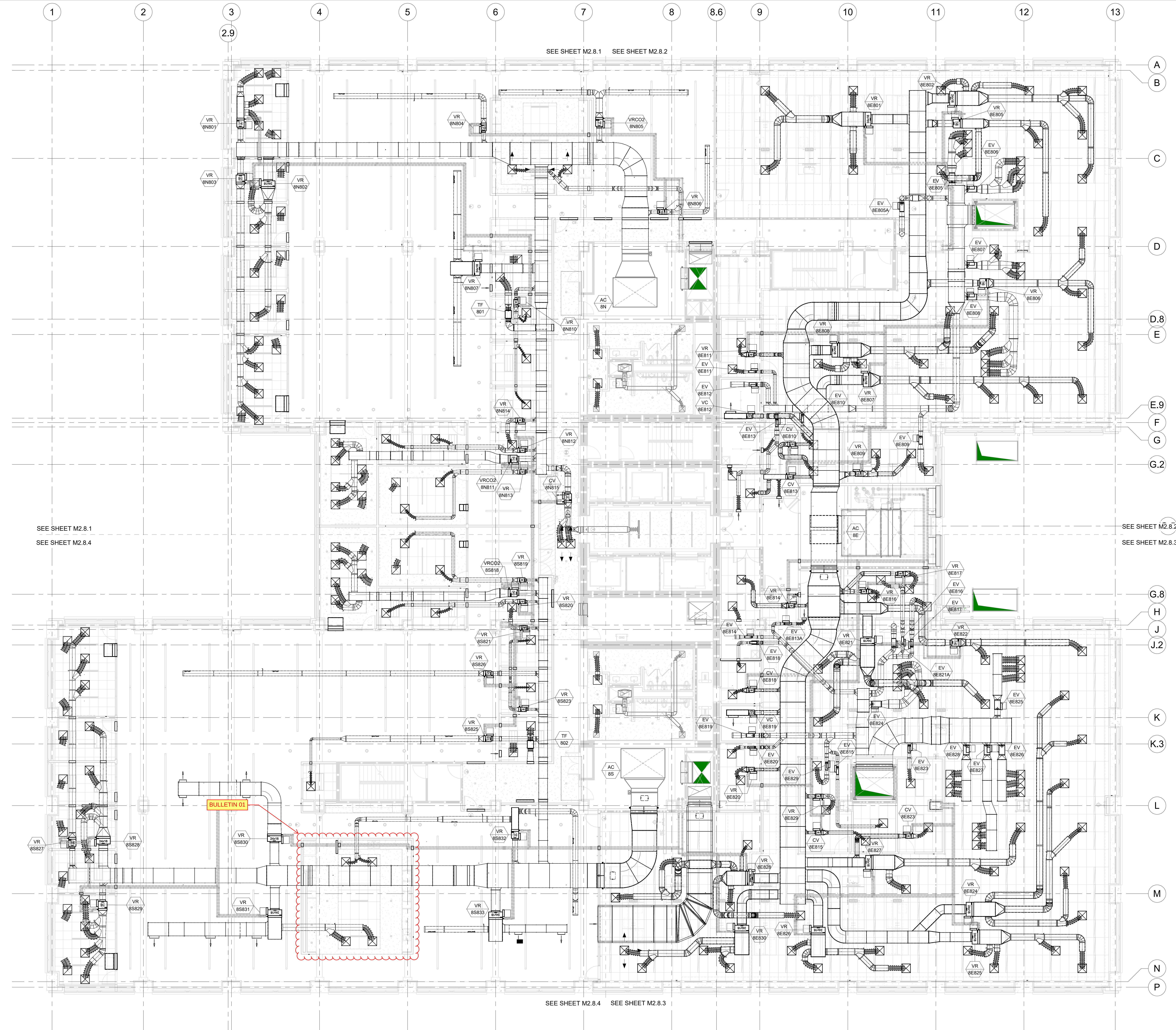


PULLOUT TRASH / RECYCLE CABINET
SCALE: 1 1/2" = 1'-0"

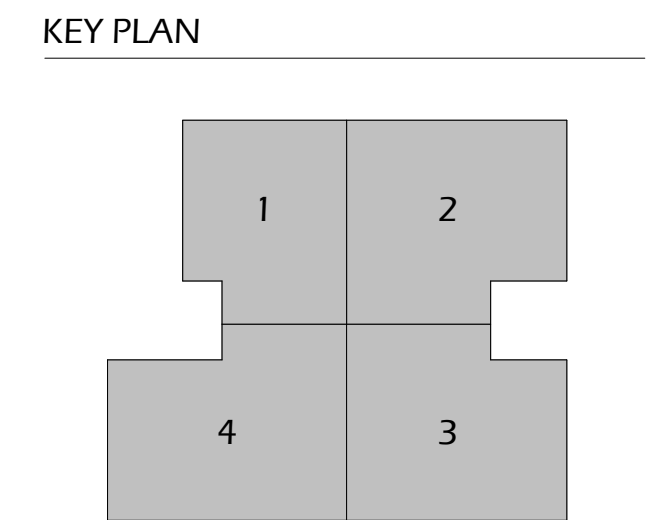


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TENANT IMPROVEMENTS
CONSTRUCTION DOCUMENTS
SHEET TITLE
DETAILS -
CASEWORK,
FINISHES &
SIGNAGE



01-31-2024	BULLETIN 01
03-21-22	8.1
02-02-2022	PERMIT RESUBMITTAL
11-15-2021	PERMIT SUBMITTAL
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DATE	REASON
PROJECT NO	21-117-23



L8 - TENANT IMPROVEMENTS
CONSTRUCTION DOCUMENTS
SHEET TITLE
**LEVEL 08 -
OVERALL MECH
FLOOR PLAN**

SHEET NUMBER
M2.8.0
CP-8

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PIPE SCHEDULE		MATERIALS									
SERVICE	LOCATION	TYPE 1 COVER	TYPE 2 COVER	MANHOLE CATION	SCHEDULE 40 POLYPROPYLENE	SCHEDULE 40 POLYPROPYLENE	SCHEDULE 40 BLACK STEEL	SCHEDULE 40 BLACK STEEL	FITTINGS: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION		
DOMESTIC WATER	INSIDE BLDG. ALL SIZES	•							SOLDERED, BRAZED OR PRESS FITTINGS		
	INSIDE BLDG. 2" & SMALLER (PUBLIC)	•							SOLDERED, BRAZED OR PRESS FITTINGS		
GRAVITY WASTE & VENT, STORM DRAIN AND GREASE WASTE	BELOW GRADE		•						PROVIDE GSEP 3104MTC C127 COUPLINGS OR HEAVY DUTY OR HORIZONTAL COLLECTION		
	ABOVE GROUND		•						PROVIDE GSEP 3104MTC C127 COUPLINGS OR HEAVY DUTY OR HORIZONTAL COLLECTION		
GRAVITY LAB WASTE & LAB VENT	ABOVE GROUND		•						NOT RE POLYPROPYLENE FOR ABOVE GROUND WITH FLAME RETARDANT FUSION JOINTS		
	INSIDE BLDG.	•							90-5 SOLDERED, PRESS AND DRAINAGE FITTINGS		
CONDENSATE DRAIN	INSIDE BLDG.	•							90-5 SOLDERED, PRESS AND DRAINAGE FITTINGS		
TRAP PRIMER	INSIDE BLDG.	•							90-5 SOLDERED FITTINGS OR PRESS FITTINGS		
GAS	INSIDE BLDG. (BRANCH AND RISER)							•	1/4-THREADED, WELDED JOINTS OR PRESS FITTINGS		
	INSIDE BLDG. (EQUIP. CONNECTION)								1/4-THREADED, WELDED JOINTS OR PRESS FITTINGS		
LAB AIR (CDA)	INSIDE BLDG.	•							SOLDERED, BRAZED OR PRESS FITTINGS (FACTORY OR FIELD CLEANED & SEALED)		
LAB VACUUM	INSIDE BLDG.	•							SOLDERED, BRAZED OR PRESS FITTINGS		

HOT WATER PIPING INSULATION									
FLUID TEMPERATURE RANGE (°F)									
100° - 140°									
NOMINAL PIPE SIZE (INCHES)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	4"	6" TO 8"	12" & UP
MIN. INSULATION THICKNESS (INCHES)	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0

TABLE 313.3 HANGERS AND SUPPORTS			
MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
Cast	Lead and Oakum	5 feet, except 10 feet where 10 foot lengths are installed ^{1, 2, 3}	Base and each floor, not to exceed 15 feet
	Compression Gasket	Every other joint, unless over 4 feet then support each joint ^{1, 2, 3}	Base and each floor, not to exceed 15 feet
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	1½ inches and smaller, 6 feet; 2 inches and larger, 10 feet	Each floor, not to exceed 10 feet ⁵
Steel Pipe for Water or DWV	Threaded or Welded	¾ inch and smaller, 10 feet; 1 inch and larger, 12 feet	Every other floor, not to exceed 25 feet ⁵
Steel Pipe for Gas	Threaded or Welded	½ inch, 6 feet; ¾ inch and 1 inch, 8 feet; 1½ inches and larger, 10 feet	½ inch, 6 feet; ¾ inch and 1 inch, 8 feet; 1½ inches 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 inch and smaller, 3 feet; 1½ inches and larger, 4 feet	Base and each floor; provide mid-story guides
Lead	Wiped or Burned	Continuous Support	Not to exceed 4 feet
	Mechanical	In accordance with standards acceptable to the Authority Having Jurisdiction	
PEX	Cold Expansion, Insert and Compression	1 inch and smaller, 32 inches; 1½ inches and larger, 4 feet	Base and each floor; provide mid-story guides
PEX-AL-PEX	Metal Insert and Metal Compression	½ inch ¾ inch 1 inch } All sizes 98 inches	Base and each floor; provide mid-story guides
PE-AL-PE	Metal Insert and Metal Compression	½ inch ¾ inch 1 inch } All sizes 98 inches	Base and each floor; provide mid-story guides
PE-RT	Insert and Compression	1 inch and smaller, 32 inches; 1½ inches and larger, 4 feet	Base and each floor; provide mid-story guides
Polypropylene (PP)	Fusion weld (socket, butt, saddle, electrofusion), threaded (metal threads only), or mechanical	1 inch and smaller, 32 inches; 1½ inches and larger, 4 feet	Base and each floor; provide mid-story guides

PLUMBING LEGEND		
SYMBOL	ABBR.	DESCRIPTION
_____	S OR W	SANITARY SEWER OR WASTE ABOVE FLOOR OR GRADE
-----	S OR W	SANITARY SEWER OR WASTE BELOW FLOOR OR GRADE
-----	V	SANITARY VENT
-----	SD OR OD	STORM DRAIN OR OVERFLOW DRAINAGE ABOVE FLOOR OR GRADE
-----	SD OR OD	STORM DRAIN OR OVERFLOW DRAINAGE BELOW FLOOR OR GRADE
-----	CW	DOMESTIC COLD WATER
-----	HW	DOMESTIC HOT WATER
-----	HWR	DOMESTIC HOT WATER RETURN
_____	S.O.V	SHUT OFF VALVE
_____	C.V.	CHECK VALVE
_____	BAL	CIRCUIT SETTER
_____	W.H.A	WATER HAMMER ARRESTOR
_____		UNION
-----	FCO	FLOOR CLEAN OUT
_____	WCO	WALL CLEAN OUT
_____		90 ELBOW
_____		RISER
_____		TEE DOWN
_____		TEE UP
x% [		SLOPE IN DIRECTION OF FLOW
•	P.O.C	POINT OF CONNECTION
•	FDIED	FLOOR OR EMERGENCY DRAIN
⊠	FS	FLOOR SINK
▶	CP	INLINE CIRCULATING PUMP
⌋		CAP
⌋		BREAK LINE
⊥	HB	HOSE BIBB
⊕		RISER VALVE
⊕		TEE RISER VALVE
⌋		AIR RELEASE VALVE
	ABV.	ABOVE
	A.P.	ACCESS PANEL
	BEL.	BELOW
	CONT.	CONTINUATION
	DN.	DOWN
	FLR.	FLOOR
	NTS.	NOT TO SCALE
	UP	UP
	TP.	TRAP PRIMER
	VTR.	VENT THRU ROOF

PLUMBING SYSTEM SINGLE & DOUBLE LINE		
SINGLE LINE	DOUBLE LINE	DESCRIPTION
_____	=====	SANITARY SEWER OR WASTE
-----	=====	SANITARY VENT
-----	=====	STORM DRAIN
-----	=====	DOMESTIC COLD WATER, IRRIGATION
-----	=====	DOMESTIC HOT WATER
-----	=====	DOMESTIC HOT WATER RETURN
-----	=====	CONDENSATE DRAIN
-----	=====	MEDIUM PRESSURE NATURAL GAS (5 PSIG)
-----	=====	NATURAL GAS (8" WC)
-----	=====	TRAP PRIMER

SHEET INDEX TI				
SORT	SHEET NUMBER	SHEET NAME	100%DD	For Permit
PLUMBING	P000	SHEET INDEX, GENERAL NOTES, ABBRE. & LEGEND	11/15/2021	3/21/2022
PLUMBING	P001	PLUMBING SYMBOLS	11/15/2021	3/21/2022
PLUMBING	P002	FIXTURE & EQUIPMENT SCHEDULES	11/15/2021	3/21/2022
PLUMBING	P004	NRCC-PLB DOCUMENTS	-	3/21/2022
PLUMBING	P208	LEVEL 8 PLUMBING FLOOR PLAN	11/15/2021	3/21/2022
PLUMBING	P301	LABORATORY COMPRESSED AIR RISER DIAGRAM	11/15/2021	3/21/2022
PLUMBING	P302	LABORATORY COMPRESSED AIR RISER DIAGRAM	11/15/2021	3/21/2022
PLUMBING	P303	LABORATORY VACUUM RISER DIAGRAM	11/15/2021	3/21/2022
PLUMBING	P304	LABORATORY VACUUM RISER DIAGRAM	11/15/2021	3/21/2022
PLUMBING	P305	LABORATORY DOMESTIC WATER RISER DIAGRAM	11/15/2021	3/21/2022
PLUMBING	P306	LABORATORY DOMESTIC WATER RISER DIAGRAM	11/15/2021	3/21/2022
PLUMBING	P307	LABORATORY WASTE & VENT RISER DIAGRAM	11/15/2021	3/21/2022
PLUMBING	P308	LABORATORY WASTE & VENT RISER DIAGRAM	11/15/2021	3/21/2022
PLUMBING	P309	SANITARY WASTE & VENT RISER DIAGRAM	11/15/2021	3/21/2022
PLUMBING	P402	PLUMBING ENLARGED PLAN LEVEL 8 NORTH	-	3/21/2022
PLUMBING	P403	PLUMBING ENLARGED PLAN LEVEL 8 SOUTH	-	3/21/2022
PLUMBING	P410	PLUMBING ENLARGED PLANS	-	3/21/2022
PLUMBING	P500	PLUMBING DETAILS	-	3/21/2022
PLUMBING	P501	PLUMBING DETAILS	-	3/21/2022

PLUMBING ABBREVIATIONS			
ABV	ABOVE	OD	OVERFLOW DRAIN
ABV CLG	ABOVE CEILING	OP WT	OPERATING WEIGHT
AFF	ABOVE FINISHED FLOOR		
AP	ACCESS PANEL	PG	PRESSURE GAUGE
ARCH	ARCHITECTURAL	PH	PHASE (ELECTRICAL)
@	AT	POC	POINT OF CONNECTION
		POD	POINT OF DISCONNECTION
BEL	BELOW	PRESS	PRESSURE
BFP	BACKFLOW PREVENTER	PRV	PRESSURE-REDUCING VALVE
BLV	BALL VALVE	PS	PRESSURE SWITCH
BV	BALANCING VALVE	PSI	POUNDS PER SQUARE INCH
		PSIG	PSI GAUGE
CD	CONDENSATE	PSIA	PSI ABSOLUTE
CFH	CUBIC FEET PER HOUR	PP	POLYPROPYLENE PIPE
CFM	CUBIC FEET PER MINUTE	PVC	POLYVINYL CHLORIDE
CI	CAST IRON		
CDA	COMPRESSED DRY AIR	RD	ROOF DRAIN
CO	CLEANOUT	RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
CONN	CONCRETE	RPM	REVOLUTIONS PER MINUTE
CONT	CONNECT OR CONNECTION	RV	RELIEF VALVE
COTG	CLEANOUT TO GRADE		
CW	COLD WATER	SAN	SANITARY
CV	CHECK VALVE	SCH.	SCHEDULE
		SD	STORM DRAIN
DF	DRINKING FOUNTAIN	SHT	SHEET
DFU	DRAINAGE FIXTURE UNITS	SK	SINK
DI	DIAMETER/DUCTILE IRON	SOV	SHUT-OFF VALVE
DN	DOWN	SPEC	SPECIFICATION
DR	DRAIN	SS	SERVICE SINKS/SANITARY SEWER
DWG	DRAWING	ST	STRAINER
(E)	EXISTING	TDH	TOTAL DYNAMIC HEAD
ELEV	ELEVATION	TEMP	TEMPERATURE
ELEC	ELECTRICAL	TP	TRAP PRIMER
		TYP.	TYPICAL
FC	FLEXIBLE CONNECTION		
FCO	FLOOR CLEANOUT	UL	UNDERWRITER'S LABORATORY
FD	FLOOR DRAIN	U	URINAL
FLR	FLOOR		
FOC	FACE OF CURB	V	VENT
FPS	FEET PER SECOND	VB	VACUUM BREAKER
FS	FLOOR SINK	VAC	VACUUM
FT	FEET	VTR	VENT THRU ROOF
FU	FIXTURE UNITS		
G	GAS - LOW PRESSURE	W	WASTE
G	GAS - LOW PRESSURE	WI	WITH
GAL	GALLON	WH	WATER HEATER
GC	GAS COCK	WHA	WATER HAMMER ARRESTOR
GI	GREASE INTERCEPTOR	WIO	WITHOUT
GLV	GLOVE VALVE	WTR	WATER
GM	GAS METER	WCO	WALL CLEANOUT
GPM	GALLONS PER MINUTE	WC	WATER CLOSET
GPR	GAS PRESSURE REGULATOR	WSFU	WATEE SUPPLY FIXTURE UNITS
GW	GREASE WASTE	WT	WEIGHT
HB	HOSE BIB	YB	YARD BOX
HP	HORSEPOWER		
HTR	HEATER	DWV	DRAIN, WASTE & VENT
HW	HOT WATER	MV	MIXING VALVE
HWR	HOT WATER RETURN	BP	BOOSTER PUMP
		CP	CIRCULATING PUMP
IE	INVERT ELEVATION	ET	EXPANSION TANK
ICW	INDUSTRIAL COLD WATER	HPT	HYDRO-PNEUMATIC TANK
HW	INDUSTRIAL HOT WATER	ESEW	EMERGENCY SHOWER & EYEWASH
HWR	INDUSTRIAL HOT WATER RETURN	LS	LABORATORY SINK
KW	KILOWATT		
LBS	POUNDS		
L	LAVATORY		
LV	LABORATORY VENT		
LW	LABORATORY WASTE		
MBH	THOUSAND BTU PER HOUR		
MIN	MINIMUM		
MG	MEDIUM PRESSURE GAS		
NC	NORMALLY CLOSED		
NO	NORMALLY OPEN		
No.	NUMBER		
NTS	NOT TO SCALE		

PLUMBING GENERAL NOTES	
1.	SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES, DRAINS, PIPE CHASES AND FURRING.
2.	SEPARATE WATER SUBMETERS SHALL BE INSTALLED IN DESIGNATED POINT ON CONNECTIONS TO EXISTING CAPPED DOMESTIC WATER SUPPLY PIPES.
3.	ALL VALVES SHALL BE LOCATED SO AS TO BE ACCESSIBLE.
4.	PROVIDE A BRASS NIPPLE WHEN JOINING DISSIMILAR METALS.
5.	ALL PIPING PENETRATIONS THRU A FIRE RATED WALL SHALL BE INSTALLED WITH AN APPROVED FIRESTOP SYSTEM.
6.	COORDINATE ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THRU WALLS AND SLABS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
7.	WATER HEATING EQUIPMENT SHALL MEET ALL OF THE REQUIREMENTS OF THE APPLICABLE AGENCY STANDARDS AND SHALL BE CURRENTLY LISTED AS CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION.
8.	ALL ACCESSIBLE FIXTURES SHALL BE FURNISHED AND INSTALLED IN STRICT COMPLIANCE WITH THE BUILDING CODE.
9.	STORM AND OVERFLOW DRAIN SYSTEM SHALL BE SIZED BASED ON A 1.5 INCHES PER HOUR RAINFALL RATE. COMBINED STORM AND OVERFLOW DRAIN SHALL BE SIZED USING 3 INCHES PER HOUR RAINFALL RATE.
10.	ALL HORIZONTAL STORM DRAIN AND OVERFLOW DRAIN LINES SHALL BE RUN AT A SLOPE OF 1% WITH THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION. (A.H.J.)
11.	AT EACH HOSE BIB OR OTHER TYPE OF OUTLET ON THE NON-POTABLE INDUSTRIAL COLD WATER (NPC) SYSTEM SHALL BE POSTED AN APPROVED TYPE SIGN STATING "CAUTION NON-POTABLE WATER, DO NOT DRINK".
12.	ALL DEVICES AND/OR COMPONENTS THAT COME IN CONTACT WITH POTABLE DOMESTIC WATER SERVICE SHALL COMPLY WITH CALIFORNIA AB 1953/NSF 61.
13.	CONFORM TO THE 2019 CALIFORNIA PLUMBING CODE AND ALL APPLICABLE AMENDMENTS.
14.	FOR ALL EQUIPMENT PADS, REFERENCE THE STRUCTURAL PLANS FOR DETAILS.
15.	ALL FIXTURES, EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED BY APPROVED LISTING AGENCIES.
16.	ALL FAUCETS IN THE PUBLIC RESTROOMS SHALL BE SELF-CLOSING METERING FAUCETS OR SENSOR ACTIVATED.
17.	PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO A MAXIMUM OF 120 DEGREE F IN ACCORDANCE TO ASSE 1070.
18.	WATER CLOSET(S) SHALL BE SERVED BY A MINIMUM 3" DRAIN AND 2" VENT.
19.	FIELD VERIFY ALL PROPOSED CONNECTIONS TO EXISTING SANITARY WASTE & VENT, DOMESTIC WATER PIPING.
20.	EVERY WASTE AND VENT STACK SHALL BE CONNECTED AS CLOSE AS POSSIBLE BELOW THE LOWEST SERVED FIXTURE.
21.	NO VENT SHALL BE CONNECTED IN SUCH A WAY THAT, IN THE EVENT OF AN OBSTRUCTION TO PASSAGE OF WASTE AT ANY POINT IN ANY DRAINAGE PIPE, (1) WASTE MAY BACK UP INTO ANY VENT STACK, ABOVE THE FLOOD LEVEL OF THE LAST FIXTURE SERVED, AND (2) THAT WOULD PREVENT THE FIXTURE IMMEDIATELY UP STREAM OF THE OBSTRUCTION LOCATION FROM BEING THE FIRST SOURCE OF FLOODING.

**Murray Company**
MECHANICAL CONTRACTORS

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SAFETY • QUALITY

01-31-2024			BULLETIN 01
4/1/22	8.2	PERMIT RESUBMITTAL	
3/21/22	8.1	PERMIT RESUBMITTAL	
2/2/22		PERMIT SET	
1/15/21		DESIGN DEVELOPMENT	
DATE		REASON	
PROJECT NO		21115	

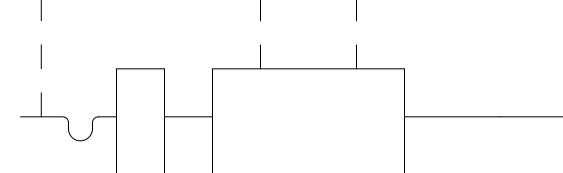


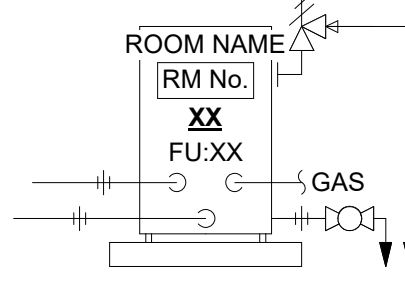
TENANT IMPROVEMENTS
CONSTRUCTION DOCUMENTS
SHEET TITLE
**SHEET INDEX,
GENERAL
NOTES, ABBRE. &
LEGEND**

SHEET NUMBER
P000
CP-8

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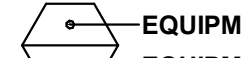
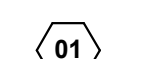
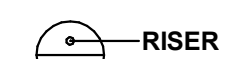
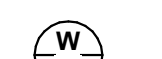
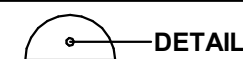
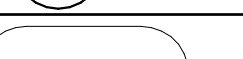
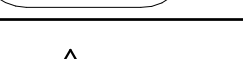
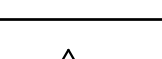
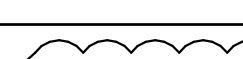
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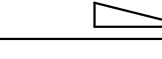
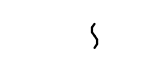
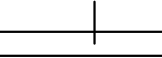
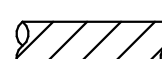
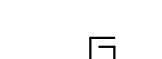
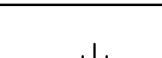
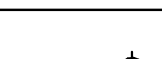
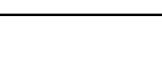
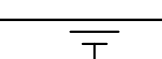
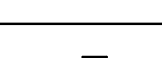
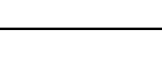
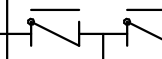
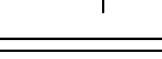
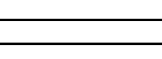
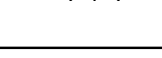
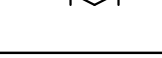
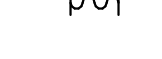
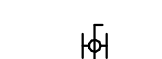
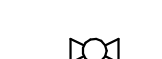
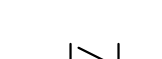
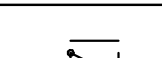
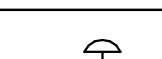
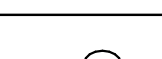
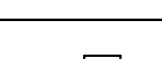
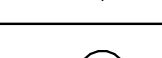
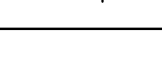
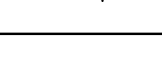
GRAVITY RISER SYMBOLS		
UNIT 888 SS-1 FU:3  MOP SINK	ROOM NAME RM No. U-1 FU:2  URINAL	ROOM NAME RM No. LS-1 FU:1.5  SINK OR LAV
ROOM NAME RM No. SH-1 FU:2  SHOWER DRAIN	ROOM NAME RM No. BT-1 FU:2  BATHTUB	ROOM NAME RM No. FD-1 FU:0  FLOOR DRAIN
ROOM NAME RM No. FS-1 FU:4  FLOOR SINK	ROOM NAME RM No. WC-1 FU:4  (4 FIXTURE UNIT) WALL MOUNT WATER CLOSET	ROOM NAME RM No. WC-1 FU:3  (3 FIXTURE UNIT) FLOOR MOUNT WATER CLOSET
ROOM NAME RM No. TP-1 FU:XX  TRAP PRIMER	UNIT 888 GL-1 FU:171  GREASE INTERCEPTOR	

PRESSURE RISER SYMBOLS		
ROOM NAME RM No. U-1 FU:4  URINAL	ROOM NAME RM No. LS-1 FU:1.5  SINK OR LAV	UNIT 888 WHA-1 FU:0  WATER HAMMER
ROOM NAME RM No. SH-1 FU:2  SHOWER	ROOM NAME RM No. BT-1 FU:2  BATHTUB	ROOM NAME RM No. IMB FU:XX  ICE MAKING BOX
ROOM NAME RM No. DW FU:-  DISH WASHER	ROOM NAME RM No. WC-1  (2.5 FU FOR FLUSH TANK 5 FU FOR FLUSH VALVE) WATER CLOSET	
ROOM NAME RM No. 2X FU:XX  WATER HEATER GAS		

STORM DRAIN RISER SYMBOLS		
HIGH ROOF RD-1 XXX SF  ROOF STORM DRAIN	HIGH ROOF OD-1 XXX SF  ROOF OVERFLOW DRAIN	HIGH ROOF AD-1 XXX SF  AREA DRAIN

PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
	VACUUM RELIEF VALVE
	PRESSURE RELIEF VALVE
	BACK PRESSURE REGULATOR INTERNAL PRESSURE TAP
	BACK PRESSURE REGULATOR EXTERNAL PRESSURE TAP
	PRESSURE-REDUCING REGULATOR
	HOSE BIBB
	INLINE CIRCULATING PUMP
	WATER HAMMER ARRESTOR
	METER
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	90 ELBOW - DOWN
	90 ELBOW - UP
	TEE - DOWN
	TEE - UP
	ROOF STORM DRAIN
	OVERFLOW DRAIN
	ROUND FLOOR DRAIN OR EMERGENCY FLOOR DRAIN
	SQUARE FLOOR DRAIN OR EMERGENCY FLOOR DRAIN
	TRENCH DRAIN
	FLOOR SINK OR ROOF RECEPTOR
	SUD RELIEF

ANNOTATION SYMBOLS		
SYMBOL	DESCRIPTION	
 EQUIPMENT No.	EQUIPMENT DESIGNATION	
 KEY NOTE No.	SHEET KEYNOTE	
 RISER RISER No.	RISER CALL OUT	
 DETAIL No. REF DWG No.	DETAIL CALL OUT	
 DETAIL NAME P2.01/SCALE: NOT TO SCALE	TITLE DETAIL CALL OUT	
 1 P2.01	SECTION CALL OUT	
 1 P2.01	DETAIL BOUNDARY	
 REVISION No.	REVISION DELTA	
	REVISION CLOUD	

PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
	SLOPE
	FLOW ARROW
	PIPE BREAK
	PIPE SPECIFICATION BREAK
	INSULATION
	DOUBLE-CONTAINED
	QUICK DISCONNECT
	FLANGED CONNECTION
	UNION
	FLOOR CLEANOUT, CLEANOUT TO GRADE
	WALL CLEANOUT
	TRIPLE DUTY VALVE
	BASKET STRAINER
	REDUCED PRESSURE BACKFLOW PREVENTER
	BACKFLOW PREVENTER
	NEEDLE VALVE
	CIRCUIT SETTER VALVE
	BELLOWS
	FLEX CONNECTOR
	ECCENTRIC REDUCER
	CONCENTRIC REDUCER
	STRAINER
	GATE VALVE
	GLOBE VALVE
	SAFETY ANGLE VALVE
	THREE-WAY VALVE
	THERMAL MIXING VALVE
	BUTTERFLY VALVE
	BALL VALVE
	BACKWATER VALVE
	PLUG VALVE
	SWING CHECK VALVE
	SPRING-DIAPHRAGM ACTUATOR
	PRESSURE-BALANCED DIAPHRAGM ACTUATOR
	LINEAR PISTON ACTUATOR
	ROTARY MOTOR OPERATED ACTUATOR
	SOLINOID VALVE
	SPRING OR WEIGHT ACTUATED RELIEF OR SAFETY VALVE ACTUATOR
	AQUASTAT
	PRESSURE TRANSDUCOR

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01-31-2024		BULLETIN 01
4/1/22	8.2	PERMIT RESUBMITTAL
3/21/22	8.1	PERMIT RESUBMITTAL
2/2/22		PERMIT SET
1/15/21		DESIGN DEVELOPMENT
DATE		REASON
PROJECT NO		21115



TENANT IMPROVEMENTS
CONSTRUCTION DOCUMENTS
SHEET TITLE
**PLUMBING
SYMBOLS**

SHEET NUMBER
P001
CP-8

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Autodesk Docs/7/21 15 DC Station/MC_Fire/Garrett Station_P_7221.N

CIRCULATING PUMP SCHEDULE																
SYMBOL	MANUFACTURER	MODEL	SERVICE	LOCATION	TYPE	QTY.	PERFORMANCE			ELECTRICAL DATA				OPERATING WEIGHT (LBS)	REMARK / DESCRIPTION	
							GPM	FT/HD	RPM	HP	FLA	VOLT	PHASE			HZ
CP-8-1N	GRUNDFOS	UPS 15-35 SFC	HOT WATER RETURN	JAN ROOM	CIRC PUMP	1	2	5	-	110 WATTS	-	115	1	60	6	STAINLESS STEEL HOUSING
CP-8-1S	GRUNDFOS	UPS 15-35 SFC	HOT WATER RETURN	JAN ROOM	CIRC PUMP	1	2	5	-	110 WATTS	-	115	1	60	6	STAINLESS STEEL HOUSING
CP-8-2N	GRUNDFOS	UPS 15-35 SFC	HOT WATER RETURN	JAN ROOM	CIRC PUMP	1	2	5	-	110 WATTS	-	115	1	60	6	STAINLESS STEEL HOUSING
CP-8-2S	GRUNDFOS	UPS 15-35 SFC	HOT WATER RETURN	JAN ROOM	CIRC PUMP	1	2	5	-	110 WATTS	-	115	1	60	6	STAINLESS STEEL HOUSING

WATER HEATER SCHEDULE																
SYMBOL	MANUFACTURER	MODEL	SERVICE	LOCATION	TYPE	CAPACITY		PRESSURE DROP (PSI)	RECOVERY RATE @ 80°F (GPH)	INLET TEMP. (°F)	OUTLET TEMP. (°F)	ELECTRICAL DATA			OPERATING WEIGHT (LBS)	REMARK / DESCRIPTION
						INPUT(K W)	GALLON					VOLT	PHASE	HZ		
EWH-8-1N	AO SMITH	DRE 80	DOMESTIC HOT WATER	JAN ROOM	FLOOR MOUNTED	27 KW	80	-	138	50	130	480	3	60	1000	WITH QUICK STRAP #QS-50 FROM HOLDRITE
EWH-8-1S	AO SMITH	DRE 80	DOMESTIC HOT WATER	JAN ROOM	FLOOR MOUNTED	27 KW	80	-	138	50	130	480	3	60	1000	WITH QUICK STRAP #QS-50 FROM HOLDRITE
EWH-8-2N	AO SMITH	DRE 52	INDUSTRIAL HOT WATER	JAN ROOM	FLOOR MOUNTED	9 KW	50	-	46	50	130	208	3	60	750	WITH QUICK STRAP #QS-50 FROM HOLDRITE
EWH-8-2S	AO SMITH	DRE 52	INDUSTRIAL HOT WATER	JAN ROOM	FLOOR MOUNTED	13.5 KW	50	-	69	50	130	208	3	60	750	WITH QUICK STRAP #QS-50 FROM HOLDRITE
EWH-POU-1	EEMAX	HA018240	DOMESTIC HOT WATER	BREAK ROOM	WALL MOUNTED	13 KW	POU	-	-	50	-	208	3	60	11.5	LOCATED BELOW BREAK ROOM SINKS

SYMBOL	FIXTURE	MANUFACTURER	TYPE	BRANCH CONNECTION					FIXTURE UNIT		FIXTURE COUNT	REMARK / DESCRIPTION
				WASTE	TRAP	VENT	CW	HW	CWFU	DFU		
BS-1	BREAK ROOM SINK	KOHLER K-4015-4	TOP-MOUNTED	2"	INT	2"	1/2"	1/2"	1.5	2		WITH PULL-DOWN SINGLE HANDLE KITCHEN SINK FAUCET MODEL K-22872 CRUE, 1.5 GPM, ADA SINK AND FAUCET.
ESEW	EMERGENCY SH & EW	GUARDIAN GBF2152	FLOOR-MOUNTED	-	-	-	1"	1"	0	0		WITH G8040 THERMOSTATIC MIXING VALVE WITH 20 GPM AT 10 PSI PRESSURE DROP. $\frac{2}{81}$
FS-1	FLOOR SINK	ZURN Z1910	FLOOR-MOUNTED	2"	2"	2"	-	-	0	0		HALF GRATE (FOR LEVEL 5 JANITOR'S ROOM 5602)
HB	HOSE BIB	ACORN	-	-	-	-	3/4"	-	0	0		ACORN MODEL 8125-LF
IMB-1	ICE MAKER OUTLET BOX	SILOUX CHIEF	WALL-MOUNTED	-	-	-	1/2"	-	0	0		1/4" O.D. COMPRESSION OUTLET CONNECTION
JS-1	JANITOR'S SINK	FLORESTONE MODEL 5 TERAZZO	FLOOR-MOUNTED	3"	INT	2"	3/4"	3/4"	3	3		WITH CHICAGO FAUCET 887-RCF, ADA.
LS-1	LABORATORY SINK	CASEWORK CONTRACTOR	BENCH MOUNTED	2"	INT	2"	1/2"	1/2"	1.5	2		BASIN AND FAUCET PROVIDED BY OTHERS
LS-2	LABORATORY SINK	CASEWORK CONTRACTOR	WALL-MOUNTED	2"	INT	2"	1/2"	1/2"	1.5	2		BASIN AND FAUCET PROVIDED BY OTHERS
SM-1	SUB METER	BADGER METER	-	-	-	-	1"	-	0	0		BADGER METER MODEL NUMBER M70
SM-2	SUB METER	BADGER METER	-	-	-	-	3/4	-	0	0		BADGER METER MODEL NUMBER M35
SM-3	SUB METER	BADGER METER	-	-	-	-	5/8	-	0	0		BADGER METER MODEL NUMBER M25

EXPANSION TANK SCHEDULE														
SYMBOL	MANUFACTURER	MODEL	SERVICE	LOCATION	TYPE	QTY.	VOLUME (Gals)	MAX. ACCEPT. VOLUME	DIMENSION		PRESSURE (PSIG)	SHIPPING WEIGHT (LBS)	MAX. OPERATING WEIGHT (LBS)	REMARK / DESCRIPTION
									DIA (IN)	HEIGHT (IN)				
ET-8-1N	THERM X TROL	ST-12	HWR	JAN ROOM	DIAPHRAGM	1	4.4	3.2	11	15	150	9	36	3/4 NPTF CONNECTION
ET-8-1S	THERM X TROL	ST-12	HWR	JAN ROOM	DIAPHRAGM	1	4.4	3.2	11	15	150	9	36	3/4 NPTF CONNECTION
ET-8-2N	THERM X TROL	ST-12	HWR	JAN ROOM	DIAPHRAGM	1	4.4	3.2	11	15	150	9	36	3/4 NPTF CONNECTION
ET-8-2S	THERM X TROL	ST-12	HWR	JAN ROOM	DIAPHRAGM	1	4.4	3.2	11	15	150	9	36	3/4 NPTF CONNECTION

BACKFLOW PREVENTER SCHEDULE										
SYMBOL	MANUFACTURER	MODEL	SERVICE	LOCATION	TYPE	QTY	GPM	VALVE SIZE (INCH)	MAX. WORKING PRESSURE (PSIG)	REMARK / DESCRIPTION
RPBP-8N	ZURN	375XL	DOMESTIC WATER	JAN ROOM	REDUCED PRESSURE	1	-	1 1/2	175	LEAD FREE
RPBP-8S	ZURN	375XL	DOMESTIC WATER	JAN ROOM	REDUCED PRESSURE	1	-	1 1/2	175	LEAD-FREE



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NORTHERN CALIFORNIA BRANCHES: OROVILLE DAVIS BRANCH • SAN DIEGO BRANCH

SAFETY • QUALITY

01-31-2024		BULLETIN 01
4/1/22	8.2	PERMIT RESUBMITTAL
3/21/22	8.1	PERMIT RESUBMITTAL
2/2/22		PERMIT SET
1/15/21		DESIGN DEVELOPMENT
DATE		REASON
PROJECT NO		21115

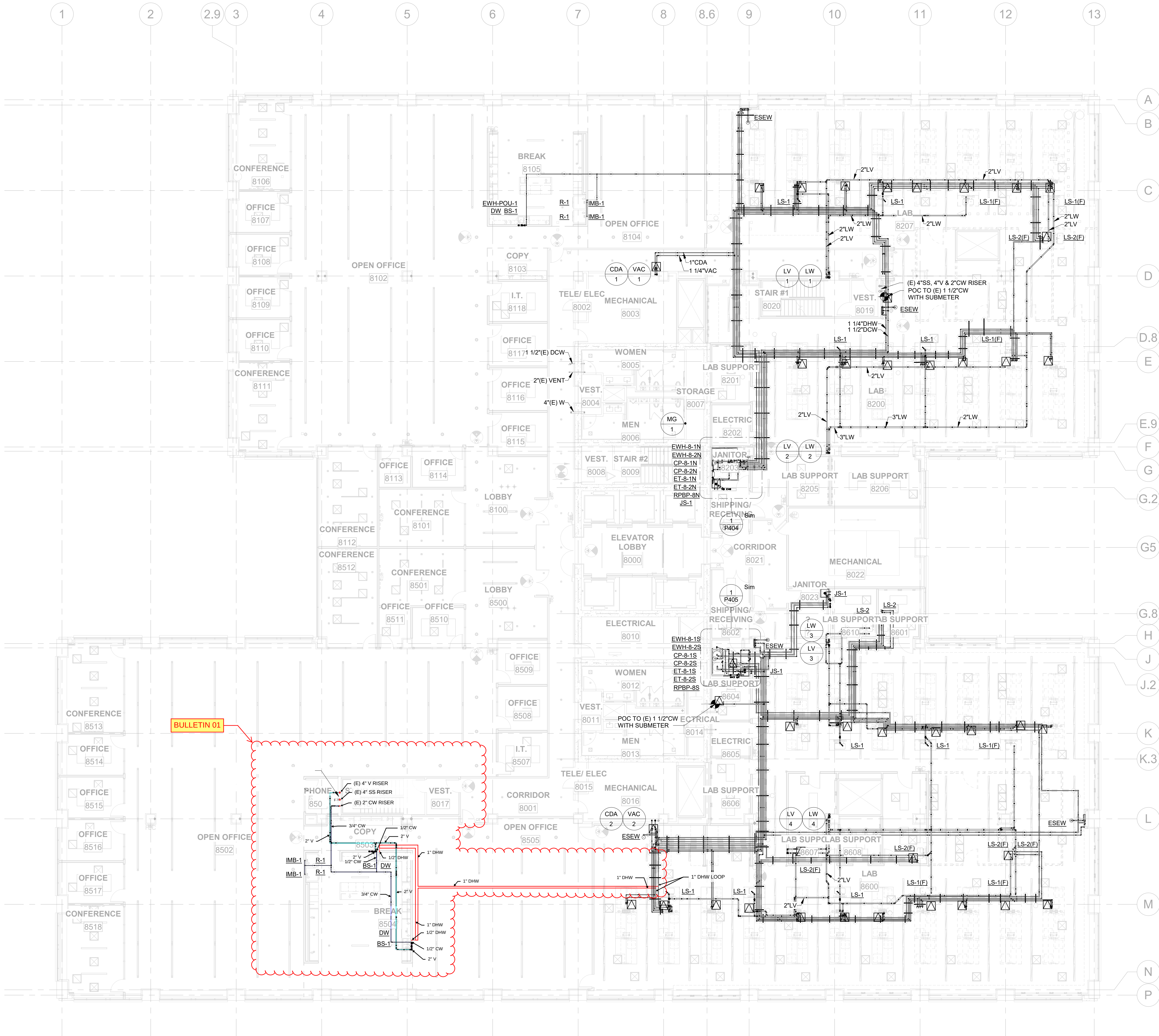
TENANT IMPROVEMENTS
CONSTRUCTION DOCUMENTS
SHEET TITLE

FIXTURE &
EQUIPMENT
SCHEDULES

SHEET NUMBER
P002
CP-8

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Autodesk Docs/2115 DC Station/MC_FireGarrett Station_P_2221.v



1 LEVEL 8
3/32" = 1'-0"

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SAFETY • QUALITY

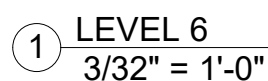
01-31-2024		BULLETIN 01
4/1/22	8.2	PERMIT RESUBMITTAL
3/21/22	8.1	PERMIT RESUBMITTAL
2/2/22		PERMIT SET
11/15/21		DESIGN DEVELOPMENT
DATE		REASON
PROJECT NO		21115

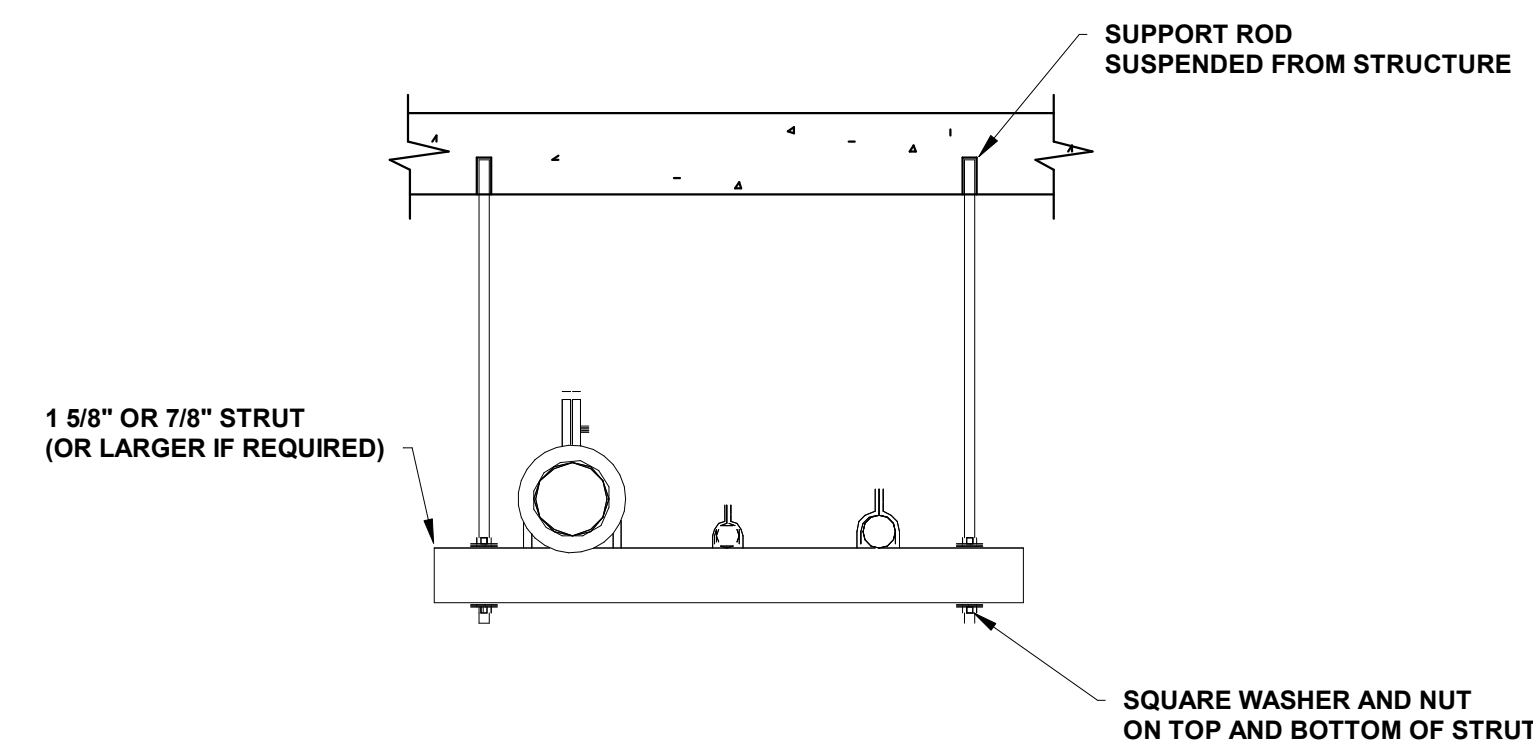
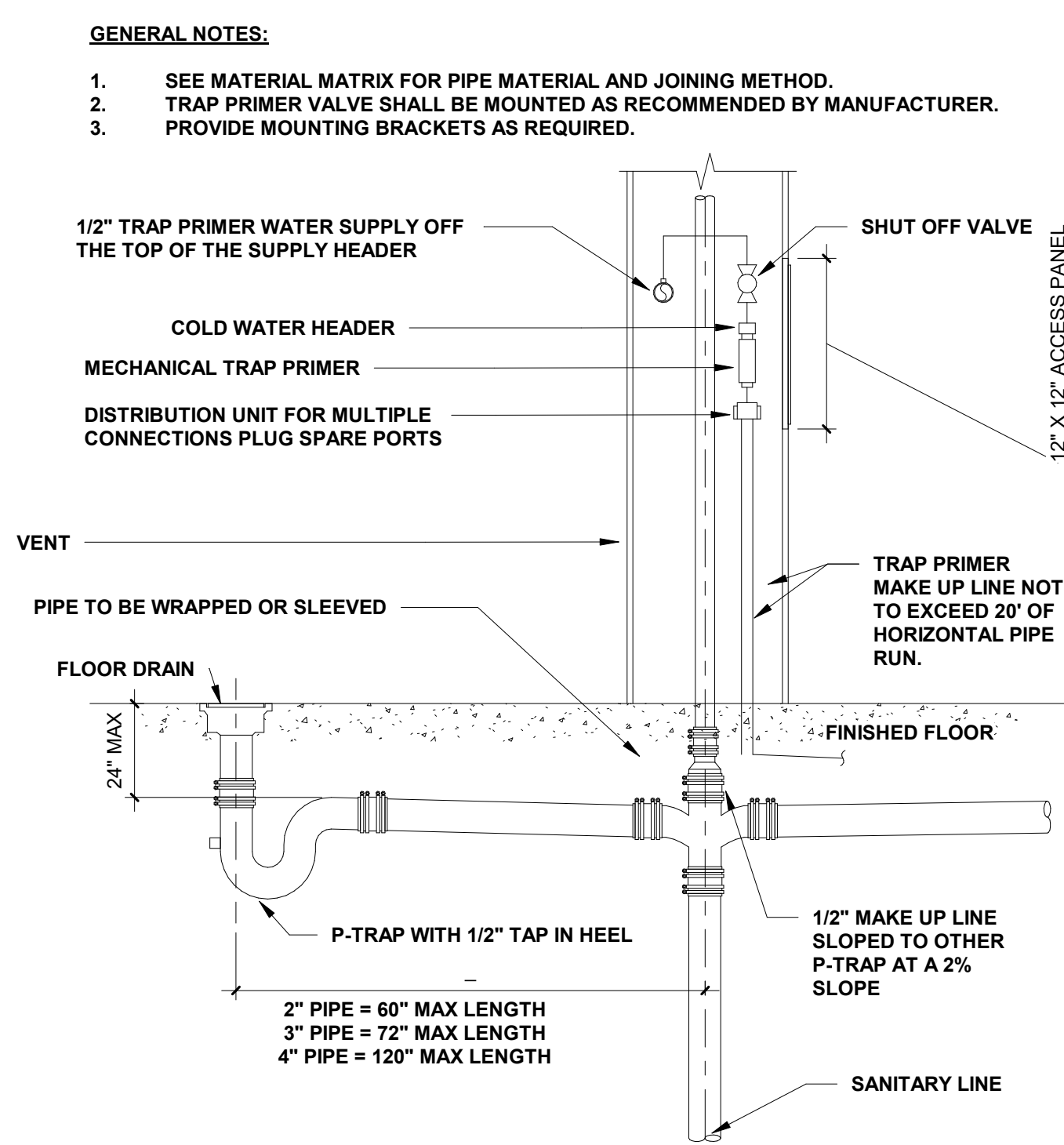
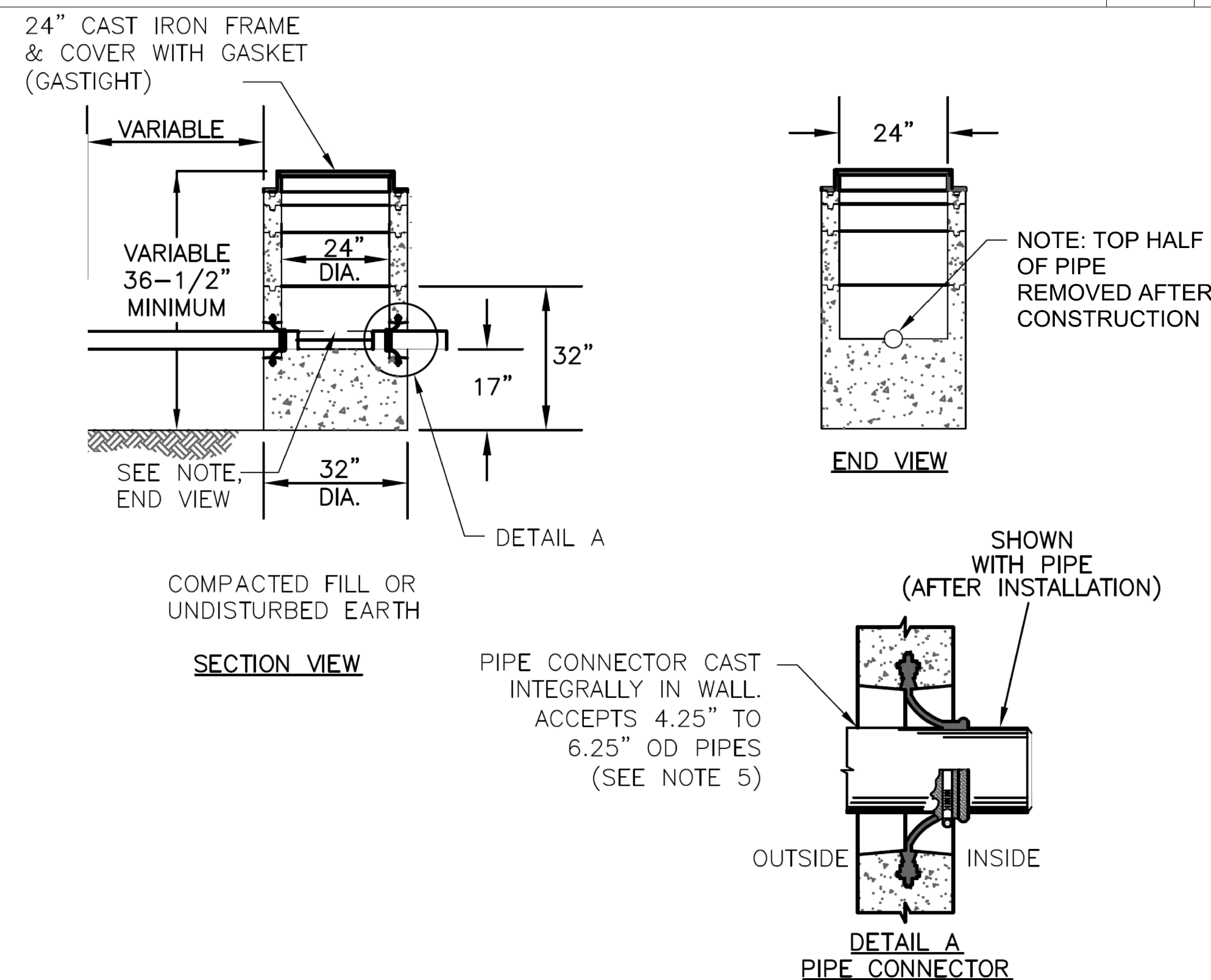
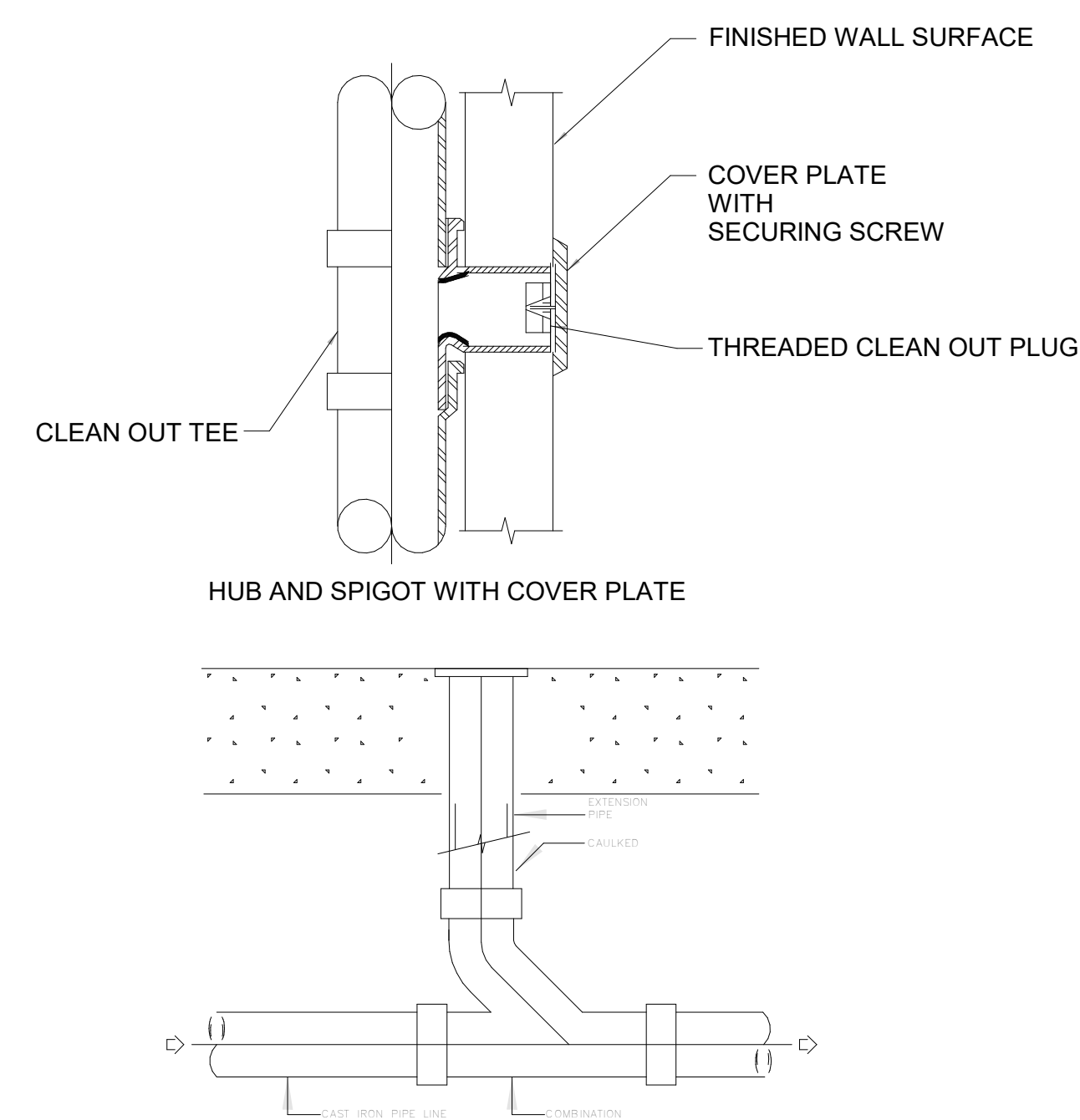
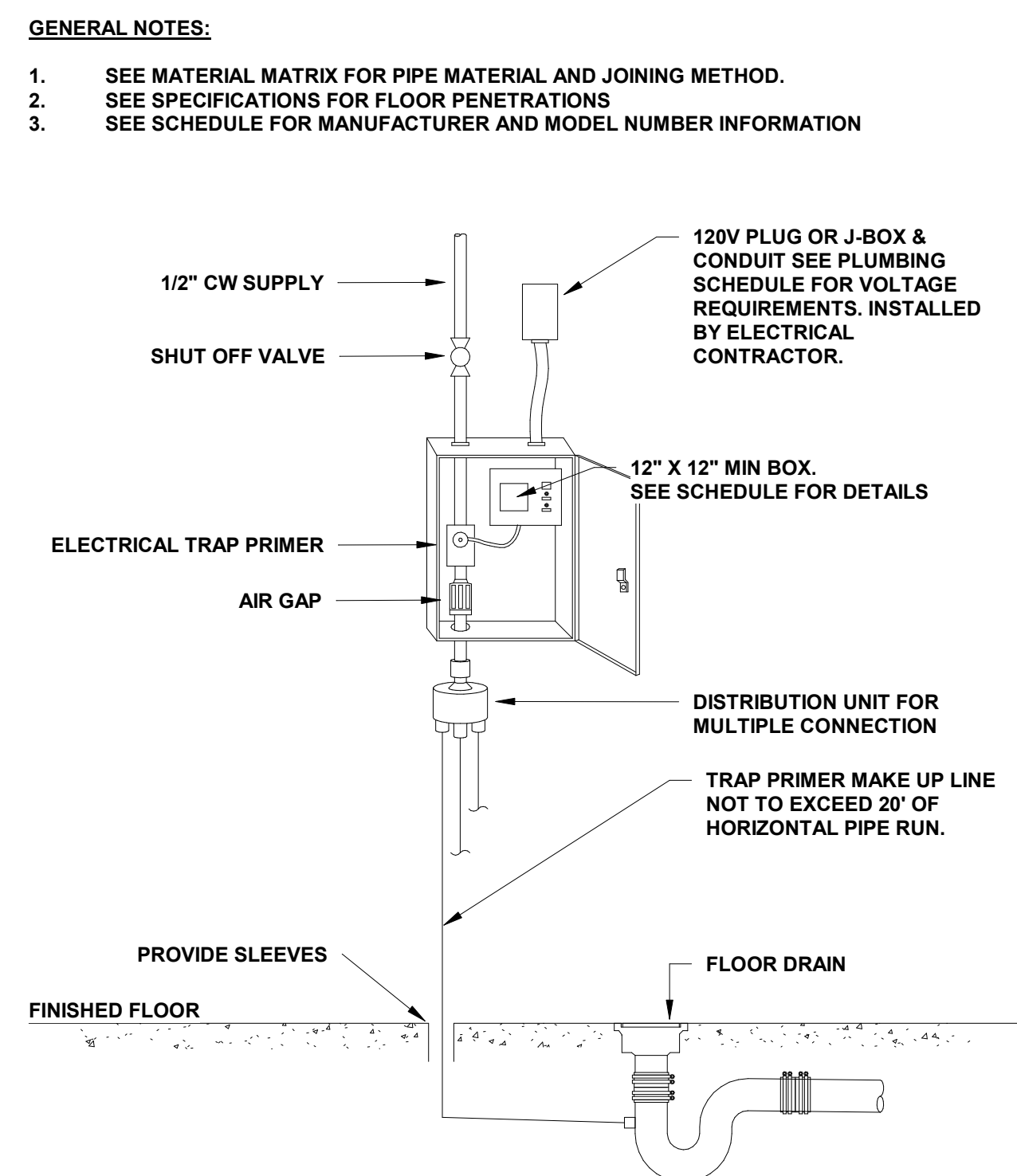
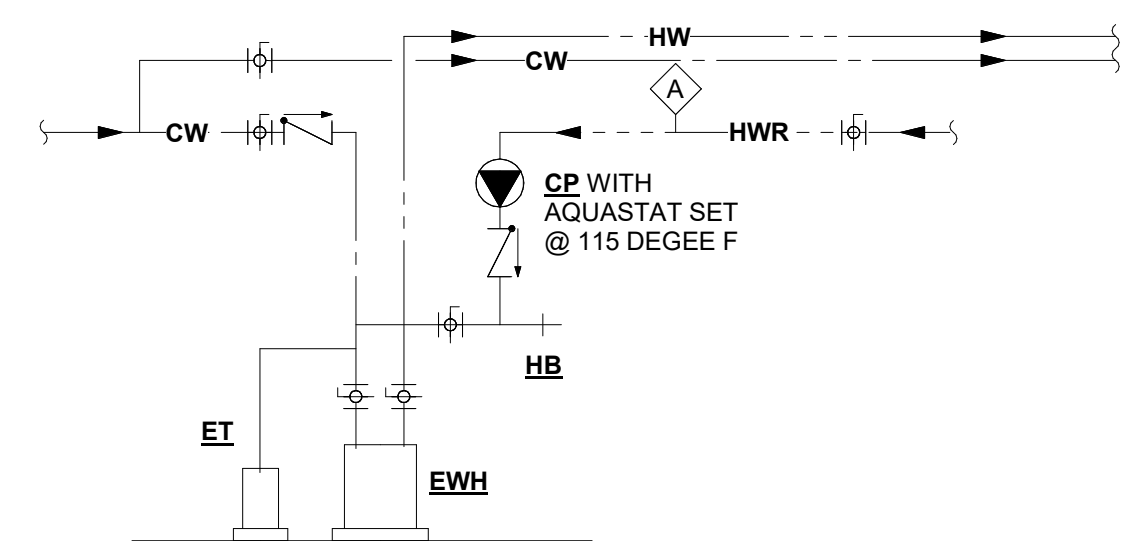
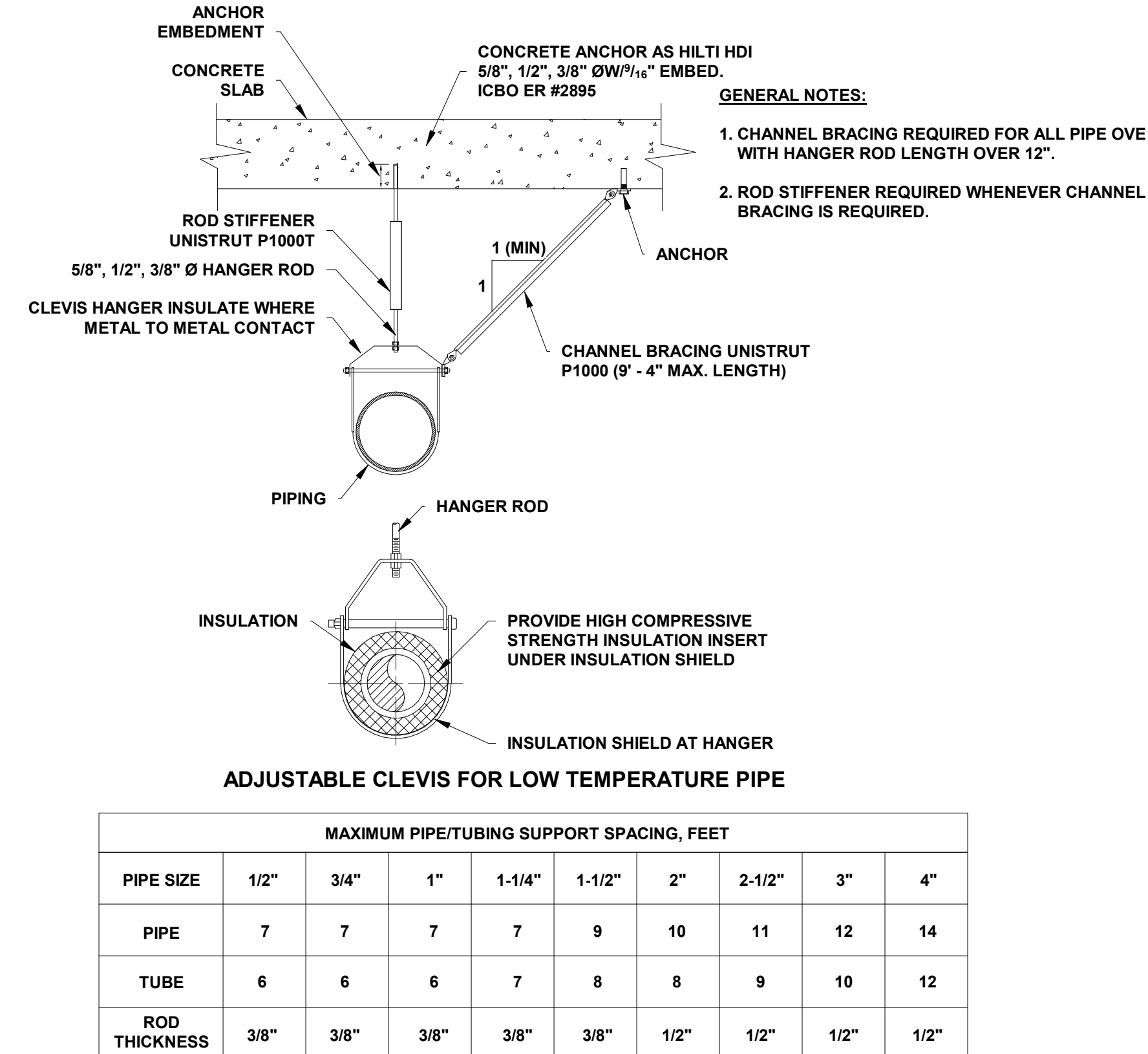
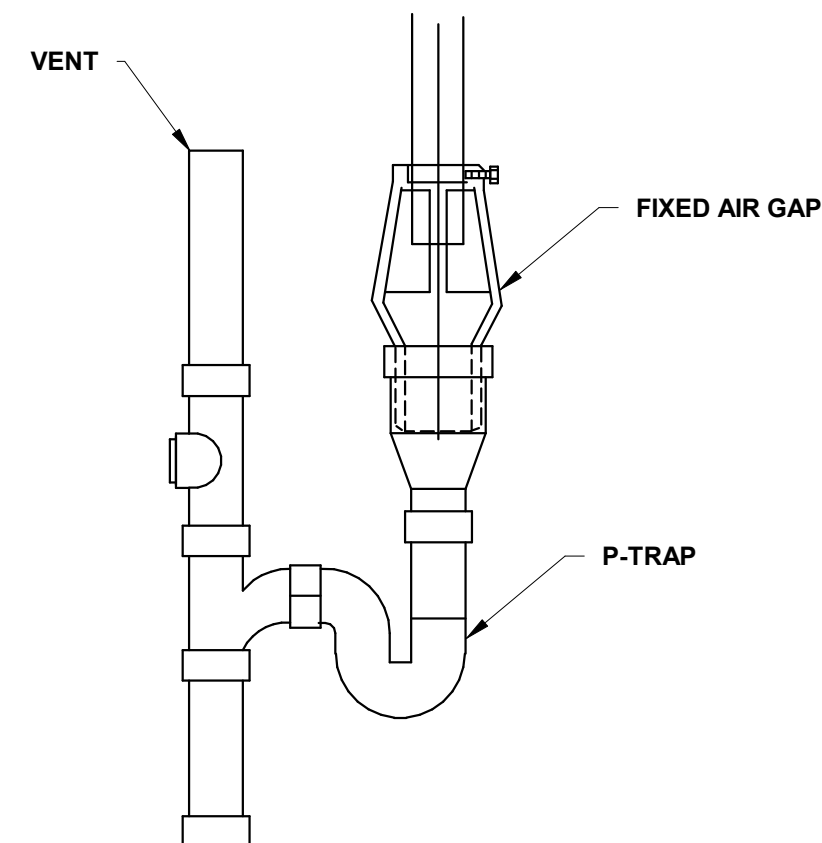
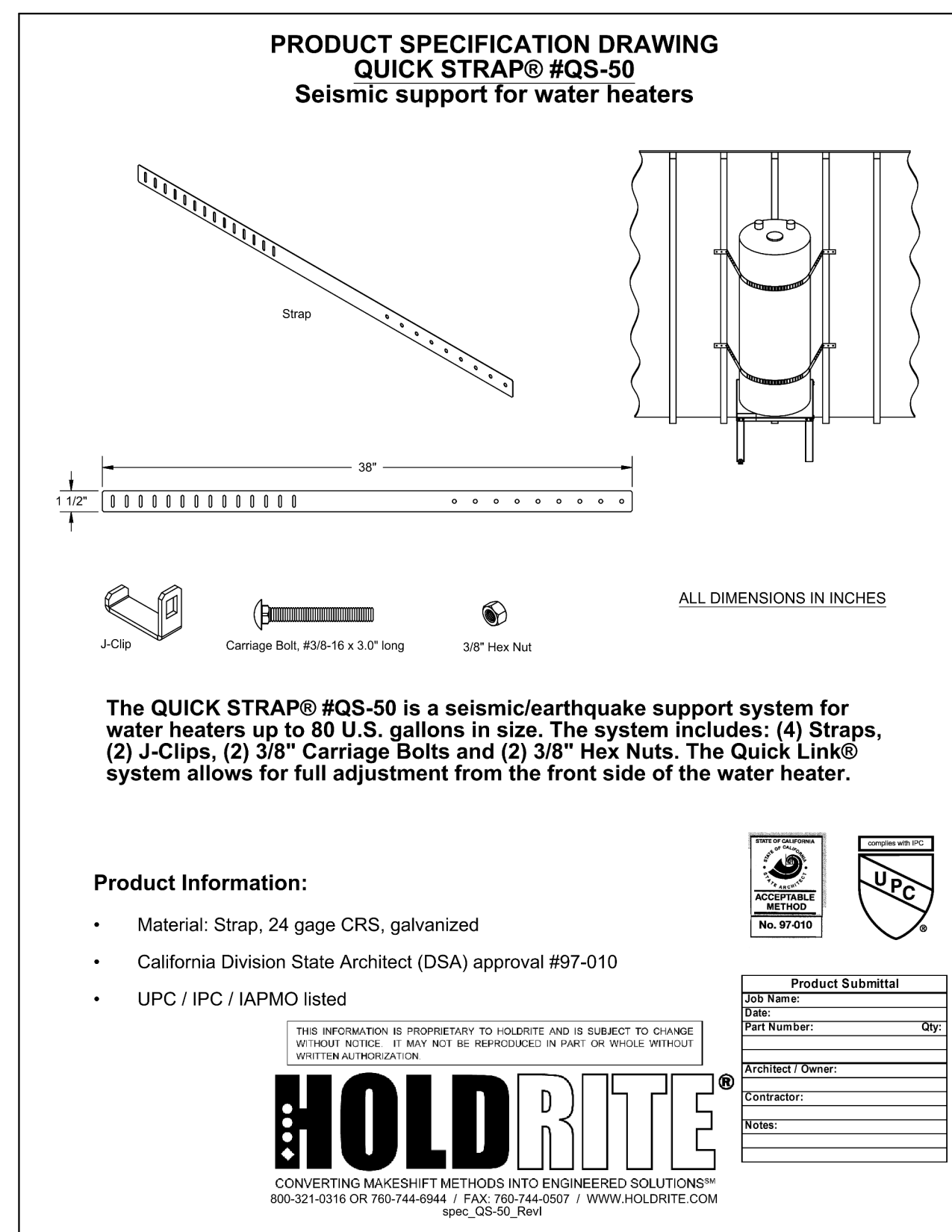


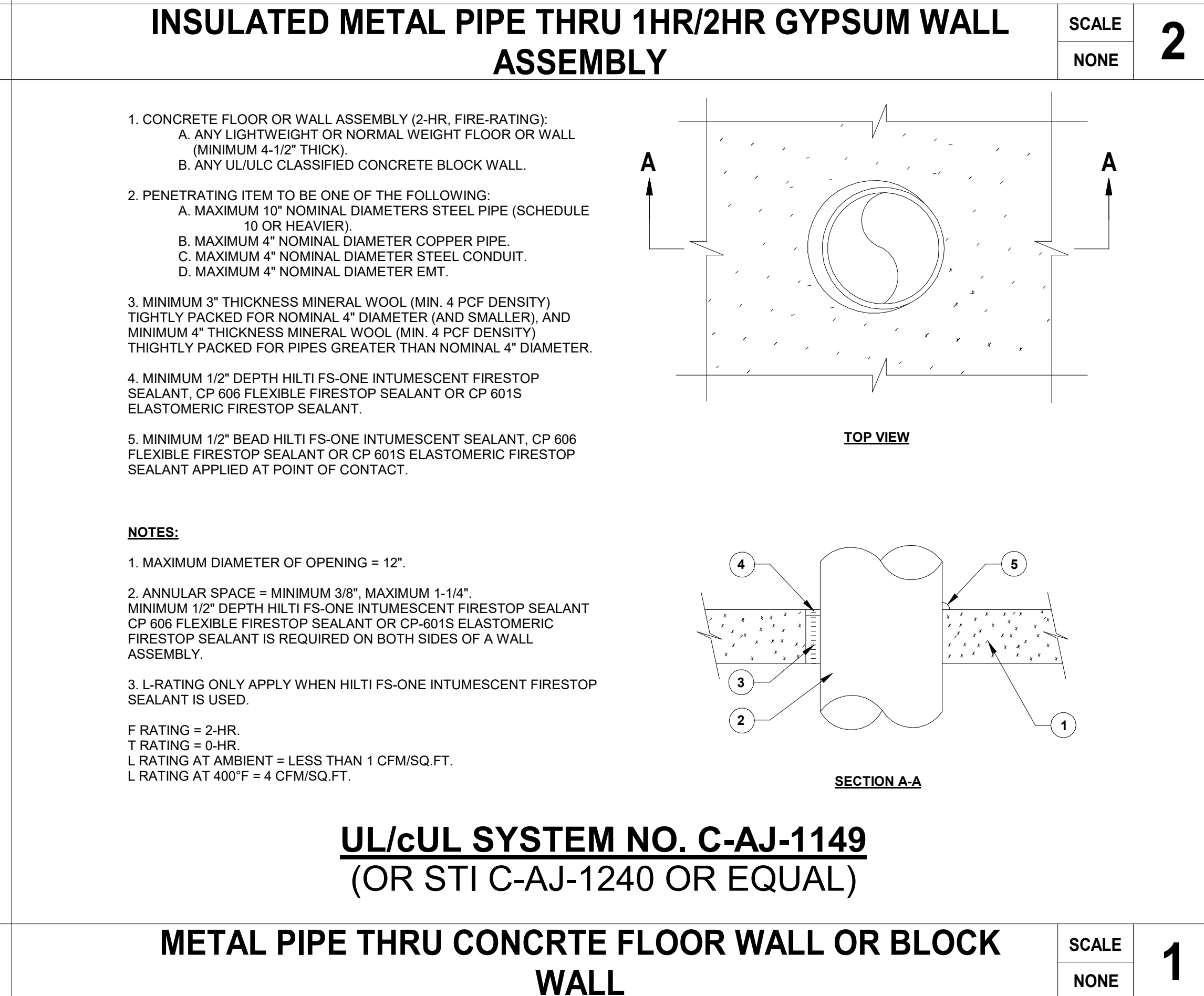
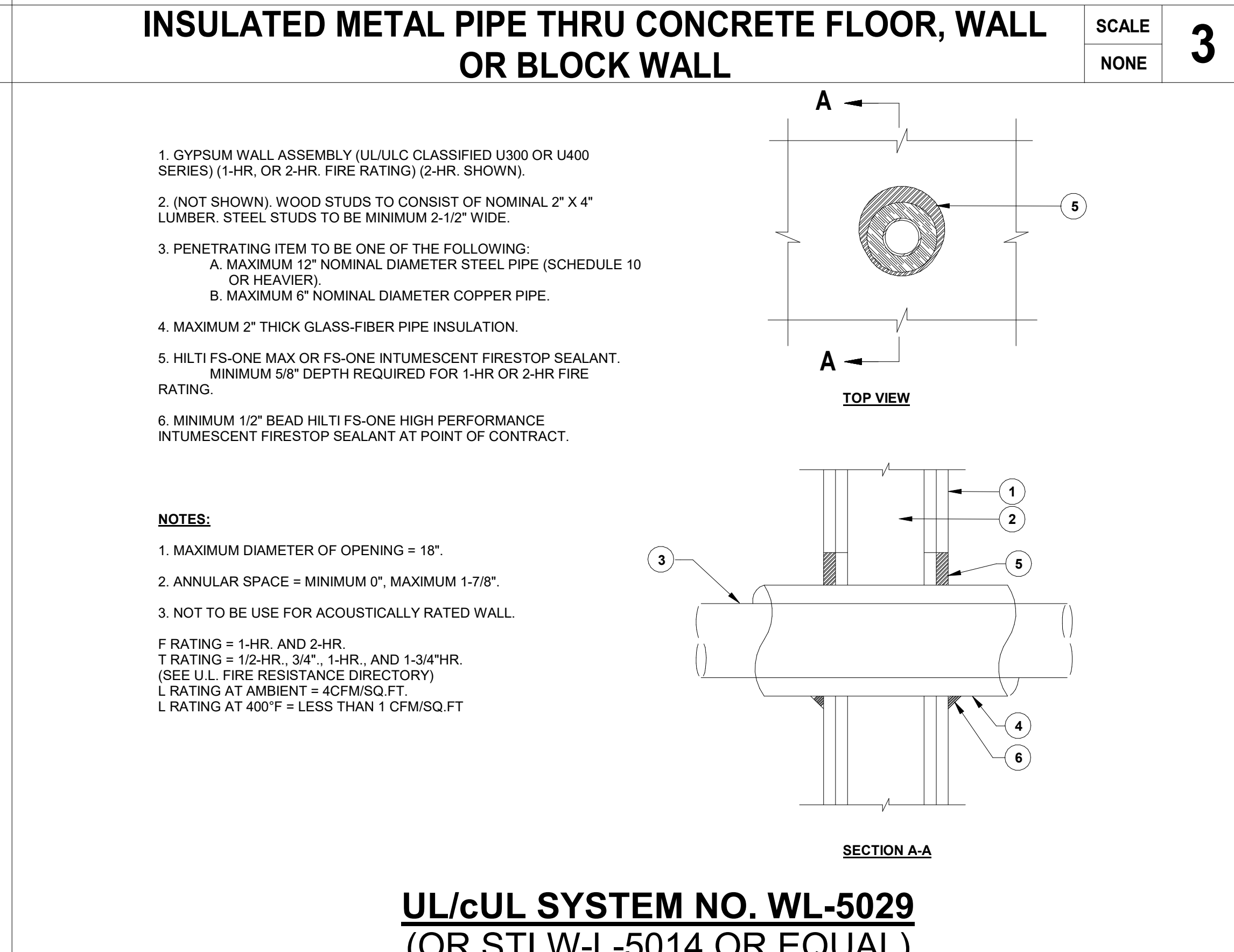
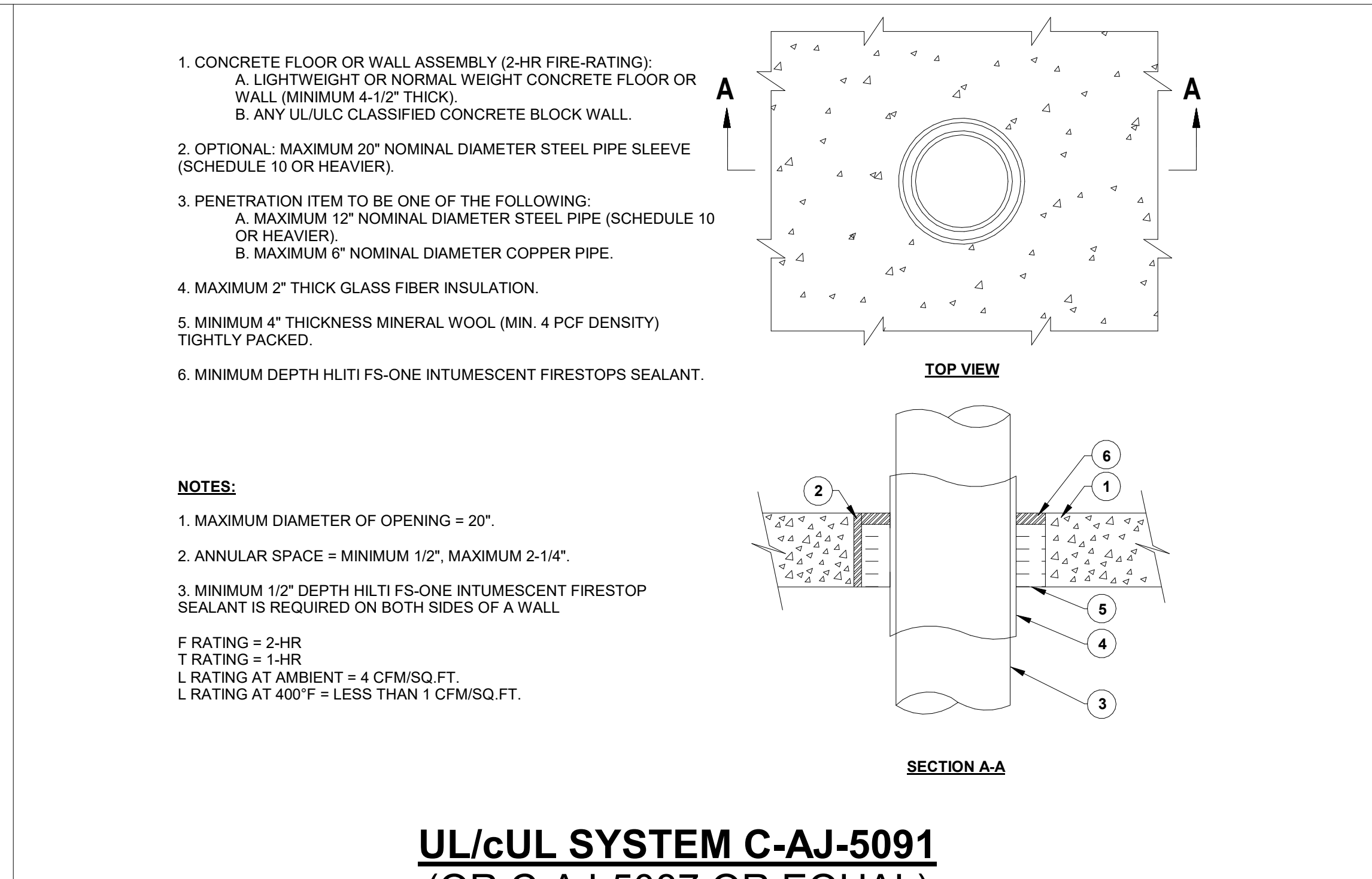
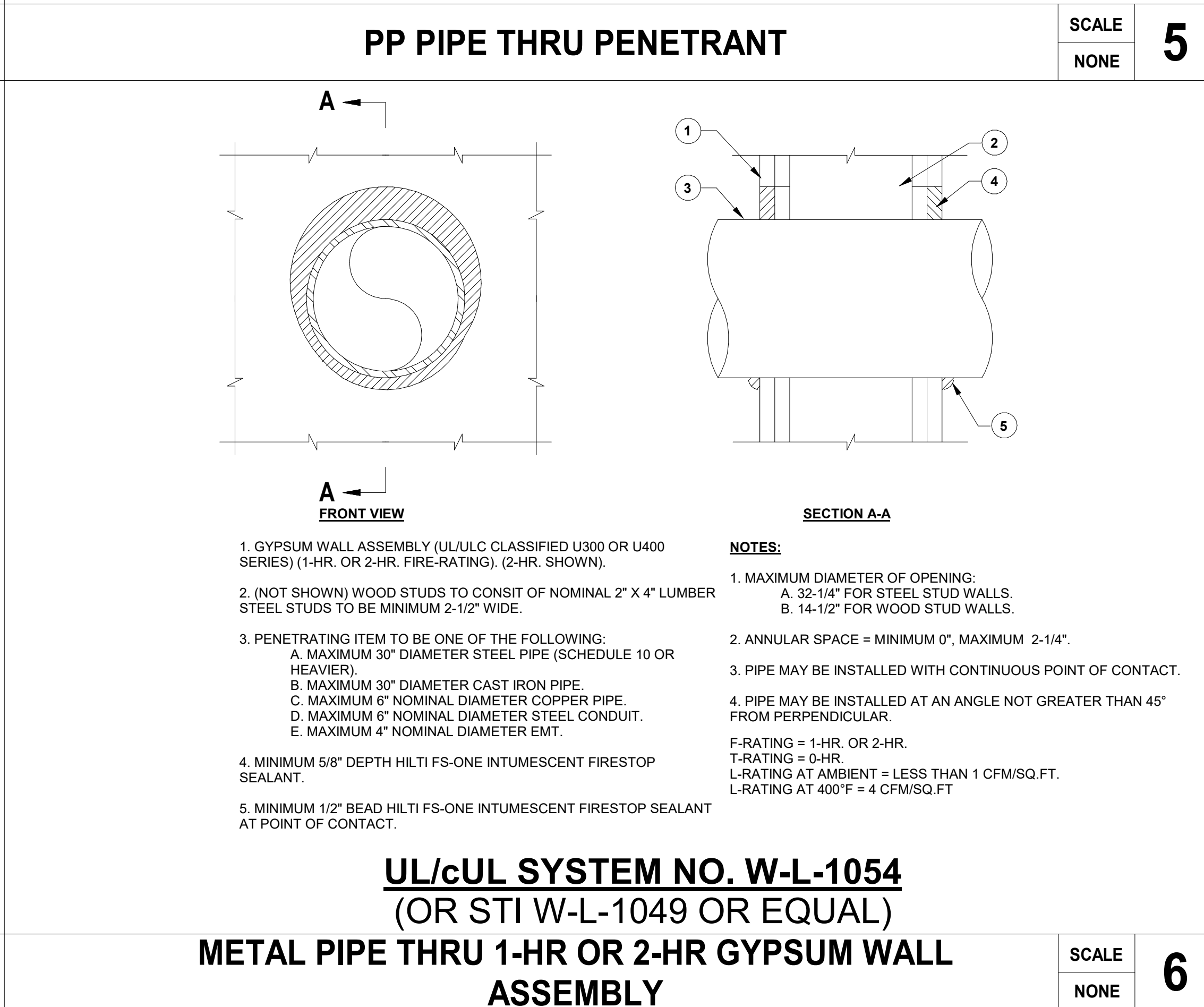
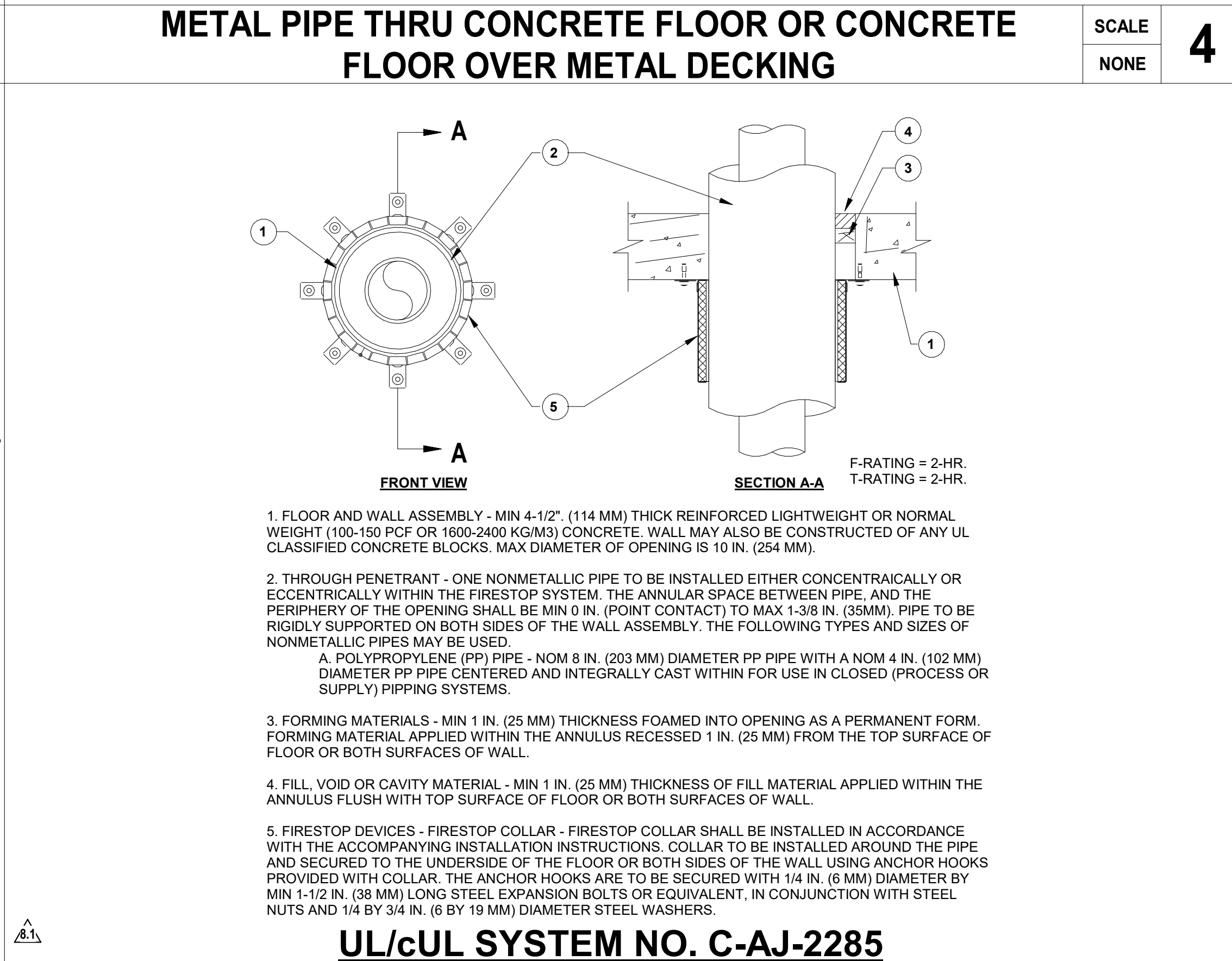
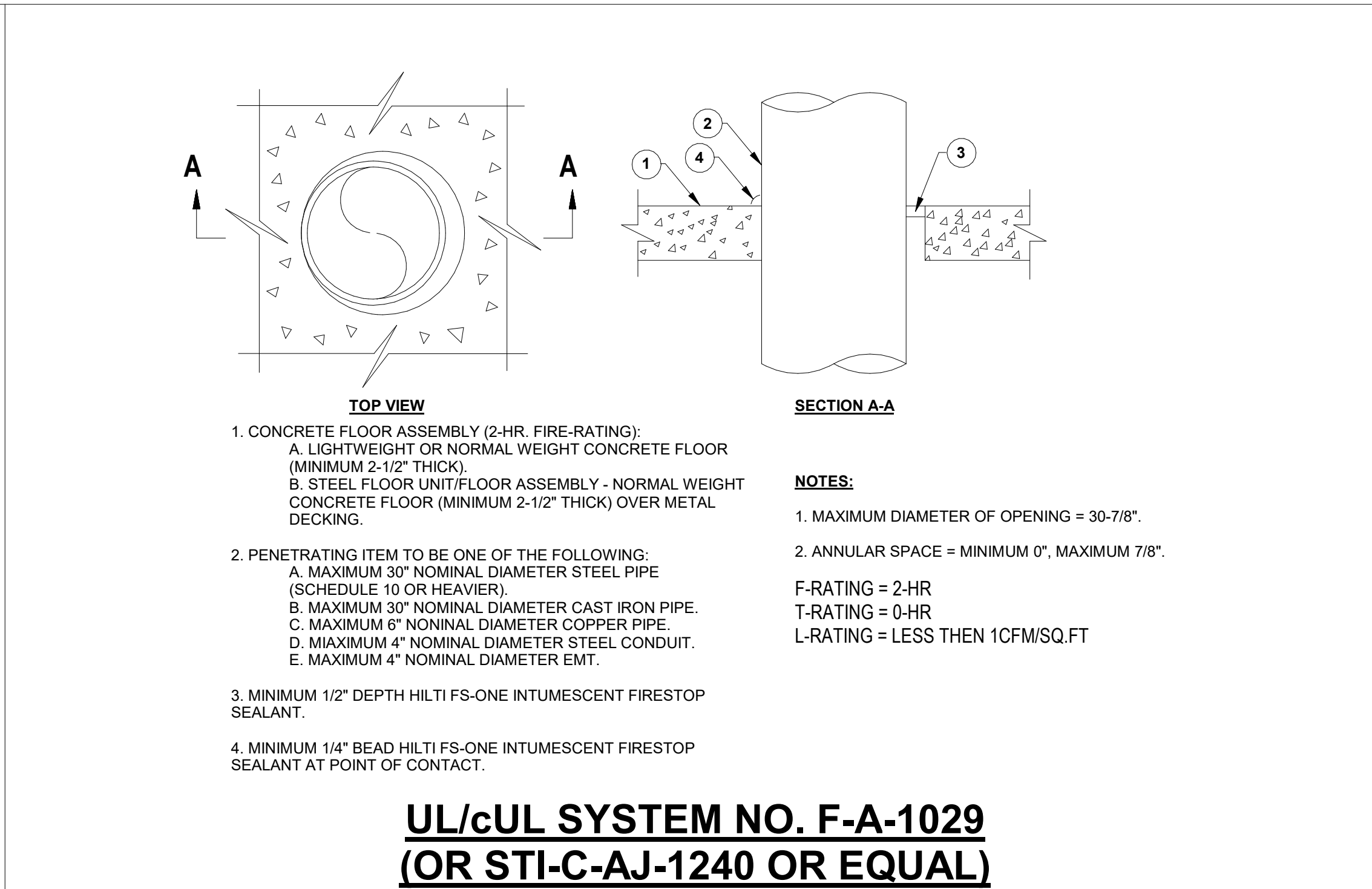
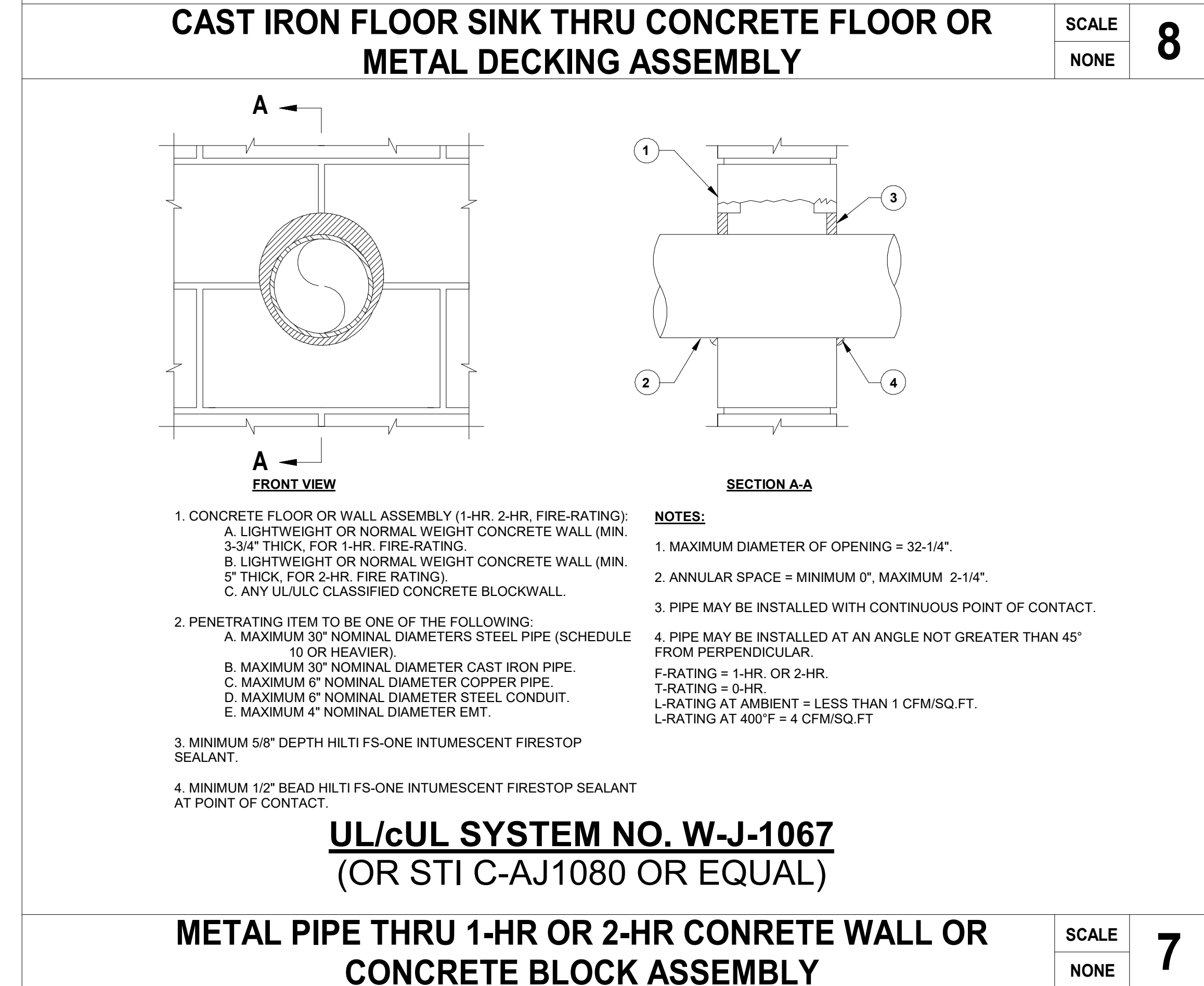
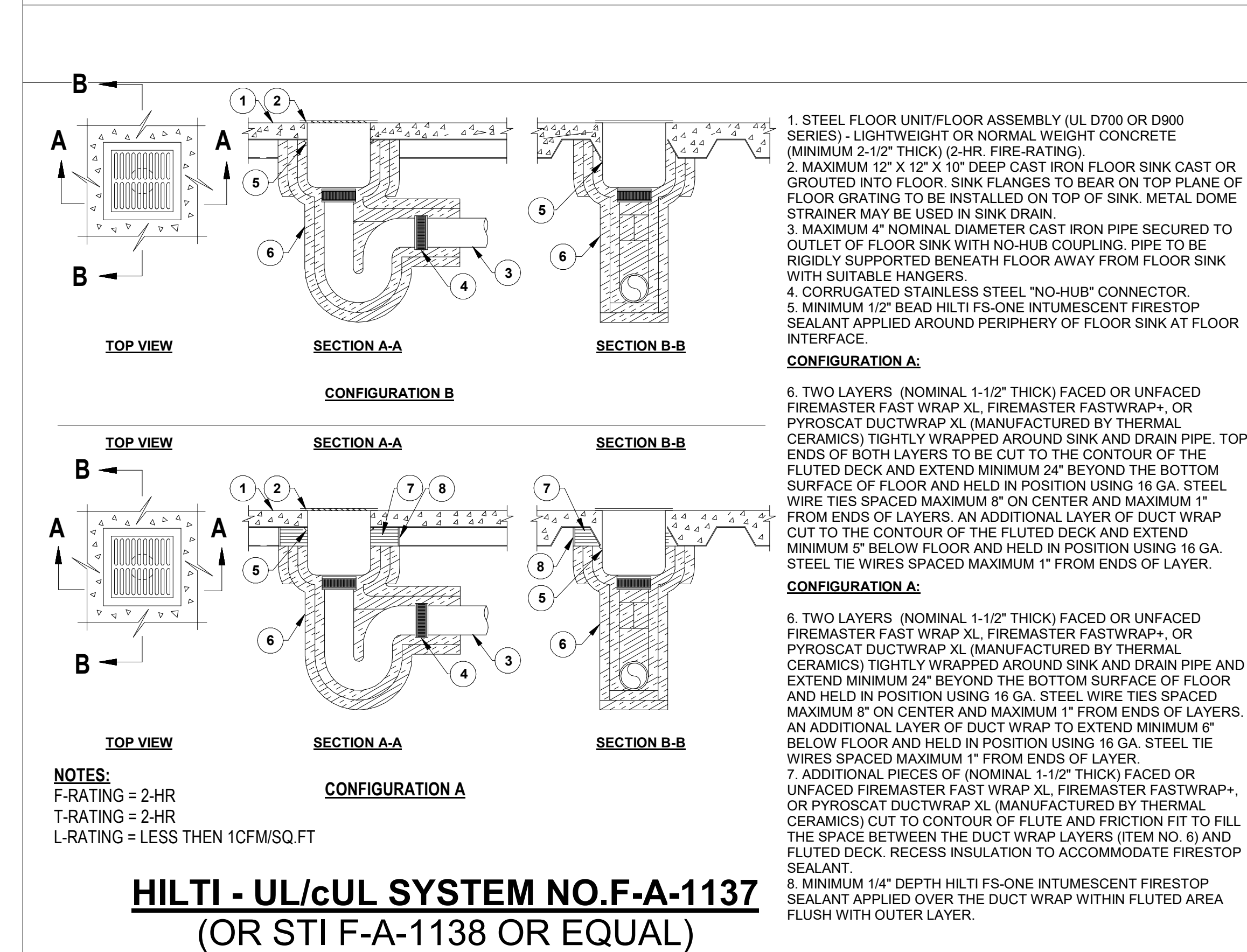
TENANT IMPROVEMENTS
CONSTRUCTION DOCUMENTS
SHEET TITLE

LEVEL 8
PLUMBING
FLOOR PLAN

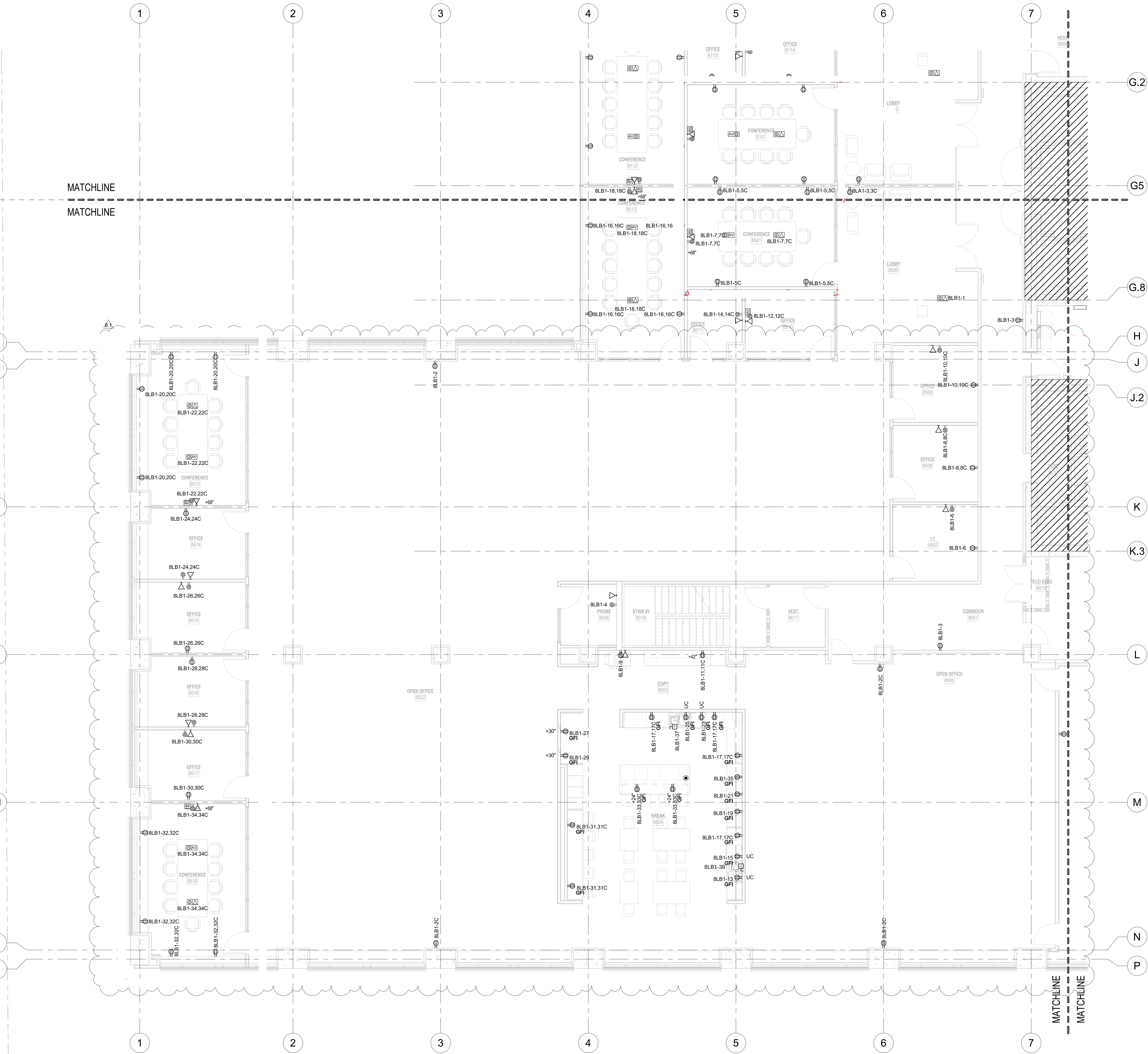
SHEET NUMBER
P208
CP-8







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WALL DEVICE SYMBOLS

- SPECIAL RECEPTACLES 15-20 FOR UMBILICAL OVERHEAD CONNECTIONS TO PRE-WIRED LAB BENCHES
- FLOOR BOX - POWER, DATA AND AV
- FLOOR BOX - POWER AND DATA
- AV BOX
- FUME HOOD J-BX
- DOUBLE DUPLEX RECEPTACLES
- DUPLEX RECEPTACLES
- DATA RECEPTACLES
- TELEPHONE DATA RECEPTACLES
- GFI DUPLEX RECEPTACLES
- SURFACE WIREMOLD

GRAPHIC LEGEND

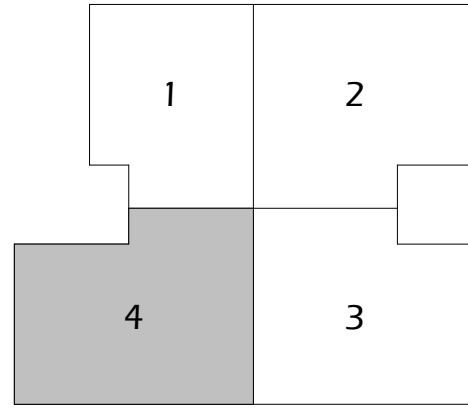
- NOT IN CONTRACT

GENERAL NOTES

1. THE HEIGHT OF THE RECEPTACLES IS 18" TO THE CENTER, UNLESS OTHERWISE NOTED.
2. THE HEIGHT OF THE GFI RECEPTACLES IN BREAK ROOMS IS 42" TO THE CENTER, UNLESS OTHERWISE NOTED.

03-21-2022	8.1	PERMIT RESUBMITTAL
02-02-2022		PERMIT SUBMITTAL
11-15-2021		DESIGN DEVELOPMENT
08-27-2021		SCHEMATIC DESIGN
DATE		REASON
PROJECT NO		21-117-23

KEY PLAN



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Branch Panel: 8LB1													
Location: Supply From: (E)BDP Mounting: Surface Enclosure: Type 1				Volts: 208/120 Wye Phases: 3 Wires: 4				A.I.C. Rating: 22000 Bus Rating: 225 A Mains Type: MLO MCB Rating: N/A					
Notes:													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LOBBY-8500 RECEPT.	20 A	1	180	720					1	20 A	OPEN OFFICE-8505 RECEPT.	2
3	CORRIDOR-8001 RECEPT.	20 A	1			360	360			1	20 A	PHONE-8506 RECEPT.	4
5	CONFERENCE-8501 RECEPT.	20 A	1					720	540	1	20 A	I.T.-8507 RECEPT.	6
7	CONFERENCE-8501 FLOORBOXES	20 A	1	720	540					1	20 A	OFFICE-8508 RECEPT.	8
9	COPY-8503 COPIER	20 A	1			500	540			1	20 A	OFFICE-8509 RECEPT.	10
11	COPY-8503 RECEPT.	20 A	1					180	540	1	20 A	OFFICE-8510 RECEPT.	12
13	BREAK-8504 GARBAGE DISPOSAL	20 A	1	1200	540					1	20 A	OFFICE-8511 RECEPT.	14
15	BREAK-8504 DISHWASHER	20 A	1			1200	720			1	20 A	CONFERENCE-8512 RECEPT.	16
17	BREAK-8504 KITCHEN RECEPT.	20 A	1					720	720	1	20 A	CONFERENCE-8512 FLOORBOXES	18
19	BREAK-8504 REFRIGERATOR	20 A	1	1000	720					1	20 A	CONFERENCE-8513 RECEPT.	20
21	BREAK-8504 MICROWAVE	20 A	1			1000	720			1	20 A	CONFERENCE-8513 FLOORBOXES	22
23	BREAK-8504 DISHWASHER	20 A	1					1200	540	1	20 A	OFFICE-8514 RECEPT.	24
25	BREAK-8504 GARBAGE DISPOSAL	20 A	1	1200	900					1	20 A	OFFICE-8515 RECEPT.	26
27	BREAK-8504 REFRIGERATOR	20 A	1			960	540			1	20 A	OFFICE-8516 RECEPT.	28
29	BREAK-8504 REFRIGERATOR	20 A	1					960	540	1	20 A	OFFICE-8517 RECEPT.	30
31	BREAK-8504 KITCHEN RECEPT.	20 A	1	360	720					1	20 A	CONFERENCE-8518 RECEPT.	32
33	BREAK-8504 KITCHEN RECEPT.	20 A	1			360	720			1	20 A	CONFERENCE-8518 FLOORBOXES	34
35	BREAK-8504 MICROWAVE	20 A	1					1000	564	1	20 A	CONF-8505 RECEPT.	36
37	SPACE	20 A	1	440	118					1	20 A	SPACE	38
39	SPACE	20 A	1			0	1080			1	20 A	JANITOR-8003 RECEPT.	40
41	SPACE	20 A	1					0	220	1	20 A	CP-8-1S & CP-8-2S	42
Total Load:				23758 VA		23460 VA		22844 VA					
Total Amps:				199 A		196 A		190 A					
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Lighting		682 VA		100.00%		682 VA		Total Conn. Load: 70062 VA					
Motor		660 VA		108.33%		715 VA		Total Est. Demand: 62357 VA					
Power		43200 VA		100.00%		43200 VA		Total Conn.: 194 A					
Receptacle		25520 VA		69.59%		17760 VA		Total Est. Demand: 173 A					
Notes:													

Branch Panel: 8LB4													
Location: Supply From: 8LB3 Mounting: Surface Enclosure: Type 1				Volts: 208/120 Wye Phases: 3 Wires: 4				A.I.C. Rating: 22000 Bus Rating: 400 A Mains Type: MLO MCB Rating: N/A					
Notes:													
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT			
1	FUTURE OFFICE 8505 DESK	20 A	1	0	540			1	20 A LAB 8607 - WIREMOLD	2			
3	FUTURE OFFICE 8505 DESK	20 A	1		0	360		1	20 A LAB 8607 - WIREMOLD	4			
5	FUTURE OFFICE 8505 DESK	20 A	1			0	720	1	20 A LAB 8607 - RECEPT	6			
7	FUTURE OFFICE 8505 DESK	20 A	1	0	540			1	20 A LAB 8609 - WIREMOLD	8			
9	FUTURE OFFICE 8502 DESK	20 A	1		0	360		1	20 A LAB 8609 - WIREMOLD	10			
11	FUTURE OFFICE 8502 DESK	20 A	1			0	1080	1	20 A LAB 8608 - RECEPT	12			
13	FUTURE OFFICE 8502 DESK	20 A	1	0	540			1	20 A LAB 8608 - WIREMOLD	14			
15	FUTURE OFFICE 8502 DESK	20 A	1		0	900		1	20 A LAB 8608 - WIREMOLD	16			
17	FUTURE OFFICE 8502 DESK	20 A	1			0	0	1	20 A -	18			
19	FUTURE OFFICE 8502 DESK	20 A	1	0	540			1	20 A LAB 8610 - WIREMOLD	20			
21	FUTURE OFFICE 8502 DESK	20 A	1		0	1260		1	20 A LAB 8610 - WIREMOLD	22			
23	FUTURE OFFICE 8502 DESK	20 A	1			0	0	1	20 A -	24			
25	FUTURE OFFICE 8502 DESK	20 A	1	0	540			1	20 A LAB 8601 - WIREMOLD	26			
27	FUTURE OFFICE 8502 DESK	20 A	1		0	1260		1	20 A LAB 8601 - WIREMOLD	28			
29	FUTURE OFFICE 8502 DESK	20 A	1			0	0	1	20 A FUTURE LAB SUPPORT	30			
31	FUTURE OFFICE 8502 DESK	20 A	1	0	0	0	0	1	20 A FUTURE LAB SUPPORT	32			
33	FUTURE OFFICE 8502 DESK	20 A	1		0	0		1	20 A FUTURE LAB SUPPORT	34			
35	SPARE	20 A	1			0	0	1	20 A FUTURE LAB SUPPORT	36			
37	EWB-8-2S	50 A	3	4503	0			1	20 A FUTURE LAB SUPPORT	38			
39	--	--	--		4503	0		1	20 A FUTURE LAB SUPPORT	40			
41	--	--	--			4503	0	1	20 A FUTURE LAB SUPPORT	42			
Total Load:				7203 VA	8643 VA	6303 VA							
Total Amps:				61 A	73 A	53 A							
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Motor		13510 VA		125.00%		16888 VA		Total Conn. Load: 22150 VA					
Power		0 VA		0.00%		0 VA		Total Est. Demand: 25528 VA					
Receptacle		8640 VA		100.00%		8640 VA		Total Conn.: 61 A					
								Total Est. Demand: 71 A					
Notes:													

Branch Panel: 8LB2													
Location: Supply From: 8LB1 Mounting: Surface Enclosure: Type 1				Volts: 208/120 Wye Phases: 3 Wires: 4				A.I.C. Rating: 22000 Bus Rating: 225 A Mains Type: MLO MCB Rating: N/A					
Notes:													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LAB-8600 LAB BENCH	20 A	1	1200	1200					1	20 A	LAB-8600 LAB BENCH	2
3	LAB-8600 LAB BENCH	20 A	1			1200	1200			1	20 A	LAB-8600 LAB BENCH	4
5	LAB-8600 LAB BENCH	20 A	1					1200	1200	1	20 A	LAB-8600 LAB BENCH	6
7	LAB-8600 LAB BENCH	20 A	1	1200	1200					1	20 A	LAB-8600 LAB BENCH	8
9	LAB-8600 LAB BENCH	20 A	1			1200	1200			1	20 A	LAB-8600 LAB BENCH	10
11	LAB-8600 LAB BENCH	20 A	1					1200	1200	1	20 A	LAB-8600 LAB BENCH	12
13	LAB-8600 LAB BENCH	20 A	1	1200	1200					1	20 A	LAB-8600 LAB BENCH	14
15	LAB-8600 LAB BENCH	20 A	1			1200	1200			1	20 A	LAB-8600 LAB BENCH	16
17	LAB-8600 LAB BENCH	20 A	1					1200	1200	1	20 A	LAB-8600 LAB BENCH	18
19	LAB-8600 LAB BENCH	20 A	1	1200	1200					1	20 A	LAB-8600 LAB BENCH	20
21	LAB-8600 LAB BENCH	20 A	1			1200	1200			1	20 A	LAB-8600 LAB BENCH	22
23	LAB-8600 LAB BENCH	20 A	1					1200	1200	1	20 A	LAB-8600 LAB BENCH	24
25	LAB-8600 LAB BENCH	20 A	1	1200	1200					1	20 A	LAB-8600 LAB BENCH	26
27	LAB-8600 LAB BENCH	20 A	1			1200	1200			1	20 A	LAB-8600 LAB BENCH	28
29	LAB-8600 LAB BENCH	20 A	1					1200	1200	1	20 A	LAB-8600 LAB BENCH	30
31	LAB-8600 LAB BENCH	20 A	1	1200	0					1	20 A	SPARE	32
33	LAB-8600 LAB BENCH	20 A	1			1200	0			1	20 A	SPARE	34
35	LAB-8600 LAB BENCH	20 A	1					1200	0	1	20 A	SPACE	36
37	LAB-8600 LAB BENCH	20 A	1	1200	0					1	20 A	SPACE	38
39	LAB-8600 LAB BENCH	20 A	1			1200	0			1	20 A	SPACE	40
41	LAB-8600 LAB BENCH	20 A	1					1200	0	1	20 A	SPACE	42
Total Load:				14400 VA		14400 VA		14400 VA					
Total Amps:				120 A		120 A		120 A					
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Power		43200 VA		100.00%		43200 VA		Total Conn. Load: 43200 VA					
								Total Est. Demand: 43200 VA					
								Total Conn.: 120 A					
								Total Est. Demand: 120 A					
Notes:													

Branch Panel: O8LB1															
Location:				Volts: 208/120 Vye				A.I.C. Rating: 22000							
Supply From:				Phases: 3				Bus Rating: 100 A							
Mounting: Surface				Wires: 4				Maine Type: MLO							
Enclosure: Type 1								MCB Rating: NA							
Notes:															
CKT		Circuit Description	Trip	Poles		A		B		C		Poles	Trip	Circuit Description	CKT
1	LAB-8600 FUME HOOD	20 A	1	1000	1200							1	20 A	LAB-8600 LAB BENCH	2
3	LAB-8600 LAB BENCH	20 A	1				1200	1200				1	20 A	LAB-8600 LAB BENCH	4
5	LAB-8600 LAB BENCH	20 A	1						1200	1200		1	20 A	LAB-8600 LAB BENCH	6
7	LAB-8600 LAB BENCH	20 A	1	1200	1200							1	20 A	LAB-8600 LAB BENCH	8
9	LAB-8600 LAB BENCH	20 A	1				1200	1200				1	20 A	LAB-8600 LAB BENCH	10
11	LAB-8600 LAB BENCH	20 A	1						1200	1200		1	20 A	LAB-8600 LAB BENCH	12
13	LAB-8600 LAB BENCH	20 A	1	1200	1200							1	20 A	LAB-8600 LAB BENCH	14
15	LAB-8600 LAB BENCH	20 A	1				1200	1200				1	20 A	LAB-8600 LAB BENCH	16
17	LAB-8600 WIRE MOLD	20 A	1						360	1200		1	20 A	LAB-8600 LAB BENCH	18
19	LAB-8600 WIRE MOLD	20 A	1	360	1200							1	20 A	LAB-8600 LAB BENCH	20
21	LAB-8600 WIRE MOLD	20 A	1				360	1200				1	20 A	LAB-8600 LAB BENCH	22
23	LAB-8601 WIRE MOLD	20 A	1						360	360		1	20 A	LAB-8600 WIRE MOLD	24
25	LAB-8610 WIRE MOLD	20 A	1	360	360							1	20 A	LAB-8600 WIRE MOLD	26
27	LAB-8604 WIRE MOLD	20 A	1				360	360				1	20 A	LAB-8600 WIRE MOLD	28
29	LAB-8606 WIRE MOLD	20 A	1						360	360		1	20 A	LAB-8600 WIRE MOLD	30
31	LAB-8607 WIRE MOLD	20 A	1	360	360							1	20 A	LAB-8600 WIRE MOLD	32
33	LAB-8608 WIRE MOLD	20 A	1				360	0				1	20 A	SPARE	34
35	LAB-8609 WIRE MOLD	20 A	1						360	0		1	20 A	SPARE	36
37	SPACE	--	1	--	0							1	20 A	SPARE	38
39	SPACE	--	1			--	0					1	20 A	SPARE	40
41	SPACE	--	1						--	0		1	20 A	SPARE	42
Total Load:				10000 VA				8640 VA		8160 VA					
Total Amps:				85 A				94 A		68 A					
Legend:															
Load Classification			Connected Load		Demand Factor		Estimated Demand		Panel Totals						
Power			22600 VA		100.00%		22600 VA								
Receptacle			5400 VA		100.00%		5400 VA								
									Total Conn. Load: 28000 VA						
									Total Est. Demand: 28000 VA						
									Total Conn.: 78 A						
									Total Est. Demand: 78 A						
Notes:															