

CITY OF LEE'S SUMMIT FIRE STATION #4

**5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064**

ISSUED FOR CONSTRUCTION

TERMS AND ABBREVIATIONS

ABBREVIATION TERM		CONST CONSULT	CONSTRUCTION CONSULTANT	FHC FHP	FIRE HOSE CABINET FULL HEIGHT PARTITION	FLUOR LT LT LA LTG	FLUORESCENT LIGHT(ING) LIGHT GAGE LIGHTING	RDP RDG RNS	ROOF DRAIN RIGID INSULATION, SOLID
A	CLASS A DOOR	CONST	CONTINUE	FHP	FINISH	LTV	LOUVER	REBAR	REINFORCING STEEL BARS
AC	AIR CONDITIONER	COORD	COORDINATE	FIN BS	FINISH BOTH SIDES	LVR	LOWEST	REF	REFERENCE
AC UNIT	AIR CONDITIONING UNIT	CORR	CORROSION	FIN FLR	FINISH FLOOR	LW PLAS	LIGHTWEIGHT PLASTER	REINFORCING	REINFORCE(D)
A/E	ARCHITECT/ENGINEER	COV PL	COVER PLATE	FIN GR	FINISH GRADE	LWC	LIGHTWEIGHT CONCRETE	REQ	REQUIRED
AAP	ALARM ANNUNCIATOR PANEL	CP	CONTROL PANEL	FIN WD	FINISH WOOD			REQ	REQUIRED
AB	ANCHOR BOLT	CPT	CARPET	FIX	FIXTURE	M	MACH RM	RXT	RESILIENT
ABBRV	ABBREVIATION	CRCMF	CIRCUMFERENCE	FLG	FLOORING	MACH RM	MACHINE ROOM	REV	REVISION
ACC	ACCESSIBLE	CRT YD	COURTYARD	FLR	FLOOR	MATL	MATERIAL	RHR	RIGHT HAND REVERSE
ACCOUST INSUL	ACOUSTICAL INSULATION	CS	CAST STONE	FLR FIN	FLOOR FINISH	MAX	MAXIMUM	RL	ROOF LEADER
ACCOUST PNL	ACOUSTICAL PANEL	CSG	CASING	FLR PL	FLOOR PLATE	MC	MOISTURE CONTENT	RG	RAILING
ACS DR	ACCESS DOOR	CSI	CONSTRUCTION	FLR SK	FLOOR SINK	MD	METAL DECK	RM	ROOM
ACS FLR	ACCESS FLOOR		SPECIFICATIONS INSTITUTE	FN	FENCE	MECH	MECHANICAL	RO	ROUGH OPENING
ACS PNL	ACCESS PANEL	CSK	COUNTER SUNK	FOUNT	FOUNTAIN	MECH RM	METAL MECHANICAL ROOM	RSD	ROUGH SET STEEL DOOR
ACT	ACOUSTICAL CEILING TILE	CSMT	CASEMENT	FR	FIRE RATING	MEMB	MEMBRANE	RTG	RIGHT
ADA	AMERICANS WITH DISABILITIES ACT	CSLT	CAST STEEL	FRMG	FRAMING	MEZZ	MEZZANINE	RTF	RUBBER TILE FLOOR
AFF	ABOVE FINISHED FLOOR	CSWK	CASEWORK	MFR	FIBERGLASS REINFORCED	MFR	MANUFACTURER	RTG	RATING
AGGR	AGGREGATE	CT	CERAMIC TILE	MIN	MINIMUM	MIN	MINIMUM	RTU	ROUGH TOP UNIT
AHJ	AUTHORITY HAVING JURISDICTION	CT STN	CUT STONE	MIRR	MIRROR	MISC	MISCELLANEOUS	RV	REVEAL
AHU	AIR HANDLING UNIT	CTB	CERAMIC TILE BASE	FRST GL	FRST GLASS	MISG	MISCELLANEOUS	RVL	REVEAL
AIA	AMERICAN INSTITUTE OF ARCHITECTS	CTF	CERAMIC TILE FLOOR	FRTW	FIRE RETARDANT TREATED WOOD	MLDG	MOLDING (MOLDING)		
		CTG	COATING	FT	FEET	MLWK	MILLWORK	S	
ALM	ALARM	CTR	CENTER	FTG	FOOTING	MOD	MODIFY	SB	SPLASH BLOCK
ALT	ALTERNATE	CTRL	CONTROL	FUR	FURNITURE	MOD BIT	MODIFIED BITUMEN	SBS	STITCHED BUTADIEN
ALT NO	ALTERNATE NUMBER	CU FT	CUBIC FEET	FW	FIRE WALL	MOPR	MOCK RACK		STYRENE
ALUM	ALUMINUM	CU IN	CUBIC INCH	FWC	FABRIC WALLCOVERING	MR	MOISTURE RESISTANT	SBSTR	SUBSTRATE
AN	ANNUNCIATOR	CU YD	CUBIC YARD	FWRK	FORMWORK	MS	MOCK SINK	SCH	SCHEDULE
ANOD	ANODIZE	D	DOOR	G	GALVANIZED	MTL	METAL	SCMU	SOLID CONCRETE MASONRY UNIT
APC	ACOUSTICAL PANEL CEILING	D LABEL	CLASS D DOOR	GALV	GALVANIZED	MBLE	MEMBRANE	SCU	SCUPPER
APPD	APPROVED	DBL	DOUBLE	GALV STL	GALVANIZED STEEL	MWP	WATERPROOFING	SCRN	SCREEN(ED)
APPROX	APPROXIMATE	DBL ACT DR	DOUBLE ACTING DOOR	GB	GRAB BAR	N	NORTH	SDG	SIDING
ARCH	ARCHITECT	DBL GLZ	DOUBLE GLAZED	GC	GENERAL CONTRACTOR	NA	NATIONAL FIRE CODE	SAMP	SAMPLE DAMPER
ASKLR	AUTOMATIC SPRINKLER	DEMO	DEMOLITION	GFRG	GLASS-FIBER-REINFORCED CONCRETE	NA	NOT APPLICABLE	SECT	SECTION
ASPH	ASPHALT	DEPT	DEPARTMENT	GFRG	GLASS-FIBER-REINFORCED GYPSUM	NFC	NATIONAL FIRE CODE	SF	SQUARE FOOT (FEET)
AV	AUDIO VISUAL	DTL	DETAIL	GFRP	GLASS-FIBER-REINFORCED PLASTER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	SHT MTL FLGS	SHEET METAL FLASHING
		WL MTD DF	WALL MOUNTED DRINKING FOUNTAIN	GFRP	GLASS-FIBER-REINFORCED PLASTIC	NIC	NOT IN CONTRACT	SHT	SHEATHING
B	CLASS B DOOR	DIA	DIAMETER	GFRP	GLASS-FIBER-REINFORCED PLASTIC	NO	NUMBER	SIM	SIMILAR
B LABEL	CLASS B DOOR	DIM	DIMENSION	GL	GLASS	NOM	NOMINAL	SJ	SCORED JOINT
B PL	BASIC PLATE	DIST	DISTANCE	GL BLK	GLASS BLOCK	NPC	NO PAINT	SLDG	SLIDING
BAS	BUILDING AUTOMATION SYSTEM	DIV	DIVISION	GLU LAM	GLUED LAMINATED WOOD	NTS	NOT TO SCALE	SLNT	SLANT
BB	BASEBOARD	DOC	DOCUMENT	GLZ	GLAZING			SND	SANITARY NAPKIN
BC	BOOKCASE	DPTN	DEMOUNTABLE PARTITION	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	O	OVERALL	SND INS	SOUND INSULATION
BD	BOARD	DR	DOOR	GPC	GYPSUM PLASTER CEILING	OA	OVERALL	SP EL	SPOT ELEVATION
BDRY	BOUNDARY	DR CL	DOOR CLOSER	GR BM	GROUND BEAM	OC	OCCUPANT	SPR	SPRINKLER
BDM	BELOW FINISHED(ED) FLOOR	DR FRM	DOOR FRAME	GR FL	GROUND FLOOR	OD	OUTSIDE DIAMETER	SQ	SQUARE
BHMA	BUILDERS HARDWARE	DR OPNG	DOOR OPENING	GR LN	GROUND LINE	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED	SQ IN	SQUARE INCH
	MANUFACTURER'S ASSOCIATION	DRH	DOOR HOLDER	GSB	GYPSUM SHEATHING BOARD	OF/OI	OWNER FURNISHED/OWNER	SQ YD	SQUARE YARD
BITUM	BITUMINOUS	DRST	DOOR STOP	GUT	GUTTER	OFD	OWNER FURNISHED/OWNER	STC	STANDARD
BLKHD	BULKHEAD	DRSW	DOOR SWITCH	GWT	GUTTER W/ TAIL TILE	OFD	OWNER FURNISHED/OWNER	STD	STEEL JOIST
BLT IN	BUILT-IN	DW	DRAWING	GYM	GYMNASIUM	OF/OI	OWNER FURNISHED/OWNER	STL	STEEL
BLW CLG	BELOW CEILING	DWG	DRAWING	GYP	GYPSUM	OFD	OWNER FURNISHED/OWNER	STL PL	STEEL PLATE
BRNG	BULLNOSE	E		GYP BD	GYPSUM BOARD	OFD	OWNER FURNISHED/OWNER	STL PL	STEEL PLATE
BRG	BRACING	E LABEL	CLASS E DOOR	GYP PLAS	GYPSUM PLASTER	OFD	OWNER FURNISHED/OWNER	STL PL	STEEL PLATE
BRDINS	BRIDGING	EA	EACH	H	HOSE BIBB	OFD	OWNER FURNISHED/OWNER	STL PL	STEEL PLATE
BRDG JST	BRIDGING JOIST	EFS	EXTERIOR FINISH SYSTEM	HCP	HOLLOW CAPPED	OFD	OWNER FURNISHED/OWNER	STL PL	STEEL PLATE
BRG	BEARING	EGB	EXTERIOR GYPSUM BOARD	HCDW	HOLLOW CORE WOOD DOOR	P	PARAPET	STL PL	STEEL PLATE
BRG PL	BEARING PLATE	EGSB	EXTERIOR GYPSUM BOARD	HDW	HARDWOOD	PAR	PARAPET	STL PL	STEEL PLATE
BRZ	BRONZE		EXTERIOR GYPSUM BOARD	HDWL	HEADWALL	PAT	PATTERN	STL PL	STEEL PLATE
BTVN	BETWEEN		EXTERIOR GYPSUM BOARD	HM	HOLLOW METAL	PB	PULL BOX	STL PL	STEEL PLATE
BUR	BUILT-UP ROOFING	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	HMD	HOLLOW METAL DOOR	PBD	PARTICLEBOARD	STL PL	STEEL PLATE
C	CLASS C DOOR	EJ	EXPANSION JOINT	HMDF	HOLLOW METAL DOOR AND FRAME	PCC	PRECAST CONCRETE	STL PL	STEEL PLATE
C LABEL	CLASS C DOOR	ELC	ELEVATION	HMDF	HOLLOW METAL DOOR AND FRAME	PCP	PORTLAND CEMENT PLASTER	STL PL	STEEL PLATE
CAB	CABINET	ENR	ENTRANCE	HMF	HOLLOW METAL FRAME	PERF	PERFORATED	SY	SYMBOL
CAC	CEILING ATTENUATION	ELEV	ELEVATOR	HNDRL	HANDRAIL	PERM	PERIMETER	SYM	SYMBOL
CLASS		ENTR	ENTRANCE	HNDRL	HANDRAIL	PERM	PERIMETER	SYM	SYMBOL
CATV	CATWALK	EOS	EDGE OF SLAB	HNDRL	HANDRAIL	PERM	PERIMETER	SYM	SYMBOL
CBB	CEMENTITIOUS BACKER	EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)	HS	HAND SINK	PGBD	PEGBOARD	T	TOWEL BAR
				HIT	HIGH	PIL	PISTON	TB	TRENCH DRAIN
CEM	CEMENT	EQ	EQUAL	HVY	HEAVY	PL	PROPERTY LINE	TD	TOP ELEVATION
CEM FIN	CEMENT FINISH	EQUIP	EQUIPMENT	HYD	HYDRANT	PL GL	PLATE GLASS	TE	TEMPERARY
CEM PLAS	CEMENT PLASTER	EXIST	EXISTING	I	INTERNATIONAL	PLAM	PLASTIC LAMINATE	TEMP	TEMPERARY
CEM PLAS CLG	CEMENT PLASTER CEILING	EXT	EXTERIOR	IBC	INTERNATIONAL BUILDING CODE	PLAS	PLASTER	TER	TERRAZZO
CER	CERAMIC	EXT GR	EXTerior GRADE	ICC	INTERNATIONAL CODE	PLBG	PLYWOOD	THK	THICKNESS
CF	CONTRACTOR FURNISHED	EXT LT	EXIT LIGHT			PLG	PLYWOOD	THK	THICKNESS
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED					PPLYWD	PLYWOOD	THK	THICKNESS
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	F BRK	FIRE BRICK	ID	IDENTIFICATION	PRCST	PRECAST	TMPD GL	TEMPERED GLASS
CFE	CONTRACTOR FURNISHED EQUIPMENT	FAAP	FIRE ALARM ANNUNCIATOR PANEL	ID NO	IDENTIFICATION NUMBER	PRNE-FIN	PREFINISHED(ED)	TMPD	TEMPERED GLASS
		FABL	FIRE ALARM BELL	INFO	INFORMATION	PRKG	PARKING	TRTD	TREATED
CFLG	COUNTERFLASHING	FABX	FIRE ALARM BOX	INSUL	INSULATION	PS CONC	PRESTRESSED CONCRETE	TV	TUBE STEEL
CFMF	COLD-FORMED METAL FRAMING	FACP	FIRE ALARM CONTROL PANEL	INT	INTERIOR	PT	PAINT	TV	TELEVISION
		PANEL		INT PNL	INSULATED METAL PANEL	PT CONC	POST-TENSIONED CONCRETE	TYP	TYPICAL
CG	CORNER GUARD	FAR	FLOOR AREA RATIO	J	JANITOR	PTAC	PACKAGED TERMINAL AIR CONDITIONER	U	UNDERGROUND
CHFR	CHAMFER	FAS BD	FASCIA BOARD	JAN	JANITOR	PTD	PAPER TOWEL DISPENSER	UGND	UNDERGROUND
CI	CAST IRON	FC BRK	FACE BRICK	JAN CLO	JANITOR CLOSET	PTDR	PAPER TOWEL DISPENSER	UL	UNDERWRITERS
CIP	CAST-IN-PLACE	FD	FLOOR DRAIN	J-BOX	JUNCTION BOX				LABORATORIES
CR	CIRCUIT	FDC	FIRE DEPARTMENT CONNECTION	JS	JANITOR'S SINK			UNFIN	UNFINISHED
CJ	CONTROL JOINT							UNO	UNLESS NOTED OTHERWISE
CL	CENTER LINE	FDCC	FIRE DEPARTMENT CONNECTION CABINET	K	KITCHEN	PTN	PARTITION		
CLG	CLADDING			KIT	KITCHEN	PVC	POLYVINYL CHLORIDE (PLASTIC)	V	VANITY
CLD	CEILING	FDMPR	FIRE DAMPER	KPL	KICKPLATE	PVF	POLYVINYL FLUORIDE (PLASTIC)	VAN	VANITY
CLG DIFF	CEILING DIFFUSER	FD	FIRE DOOR	KWY	KEYWAY	PVG	PAVING	VAP PRF	VAPOR PROOF
CLG GRL	CEILING GRILLE	FDN	FOUNDATION	L	LAMINATE	PWR	POWER	VB	VINYL BASE
CLG HT	CEILING HEIGHT	FDV	FIRE DEPARTMENT VALVE	LAM	LAMINATE			VCT	VINYL COMPOSITION TILE
CLG LEG	CEILING REGISTER	FE	FIRE EXTINGUISHER	LAM GL	LAMINATED GLASS	Q	QUARRY TILE	VEST	VESTIBULE
CLK JT	CAULKED JOINT	FEC	FIRE EXTINGUISHER CABINET	LAT	LAVATORY	Q	QUARRY TILE	VFAT	VINYL FACED ACOUSTICAL TILE
		FIN FCE	FINISH FACE	LBS	POUND	QTB	QUARRY TILE BASE	VNR	VENEER
CMPTST	COMPOSITE	FF BATT	FOIL BACKED BATT INSULATION	LED	LIGHT EMITTING DIODE	QTF	QUANTITY	VR	VAPOR RETARDER
CMU	CONCRETE MASONRY UNIT	FF EL	FINISH FLOOR ELEVATION	LEF	LINEAR FEET (FOOT)			VRFY	VERIFY
CNR	CORNER	FF&E	FIRE FIGHTING EQUIPMENT	LST	LEAD			VTR	VENT THROUGH ROOF
CNTR	CONTRACTOR			LF INS	LOSS OF INSULATION	R	RESILIENT BASE	VWC	VINYL WALL COVERING
CNTR	COUNTER	FFA	FROM FLOOR ABOVE	LKR RM	LOCKER ROOM	RB	ROBE HOOK		
COL	COLUMN	FFB	FROM FLOOR BELOW	LL	LOW LEVEL	RB HK	ROBE HOOK		
COMM	COMMUNICATION	FH	FIRE HYDRANT	LL GB	LEAD LINED GYPSUM BOARD	RBM	REINFORCED BRICK MASONRY	W	WALL CABINETS
CONC	CONCRETE			LLST	LEADSTONE	RC	REINFORCED CONCRETE	W CAB	WALL CABINETS
CONC FLR	CONCRETE FLOOR			LNG	LONGITUDE	RCP	REFLECTED CEILING PLAN	WIO	WOOD INSULATION
CONC OPNG	CONCRETE OPENING			LT	LIGHT	RCPTN	RECEPTION	WBL	WOOD BLOCKING

GRAPHIC SYMBOLS LEGEND

FLOOR PLAN REFERENCE INDICATORS

NAME	NO	NO	NO	NO	NO	NO	NO
DOOR TAG		101A	DOOR TAG		REVISION TAG		
WINDOW TAG			PARTITION TAG		KEYNOTE TAG		
SPOT ELEVATION TAG		100'-0"	CENTER LINE		EQUIPMENT TAG		

NORTH INDICATOR

PLAN NORTH

PROJECT NORTH LINE

TRUE NORTH LINE

COLUMN LINE GRID INDICATOR

GRID IDENTIFICATION

GRID IDENTIFICATION

DRAWING BLOCK TITLE

VIEW NUMBER

C4

VIEW SCALE

VIEW NAME

0 4' 8' 16'

GRAPHIC SCALE

DETAIL/CALLOUT IDENTIFICATION

DETAIL NUMBER

NO

SHT

SHEET NUMBER

EXTERIOR ELEVATION IDENTIFICATION

ELEVATION NAME

NAME

ELEVATION

ELEVATION

BUILDING SECTION IDENTIFICATION

SECTION NUMBER

NO

SHT

SHEET NUMBER

EXTERIOR ELEVATION IDENTIFICATION

ELEVATION NUMBER

NO

SHT

SHEET NUMBER

WALL SECTION IDENTIFICATION

SECTION NUMBER

NO

SHT

SHEET NUMBER

INTERIOR ELEVATION IDENTIFICATION

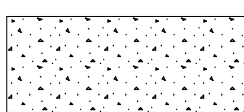
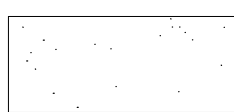
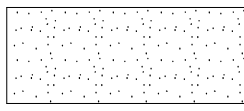



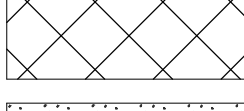
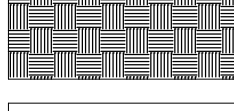
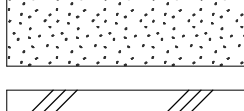
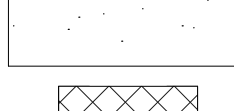

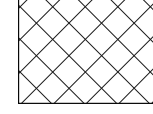
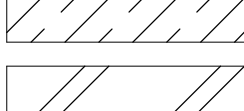
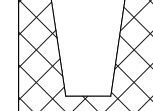
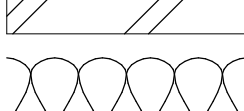
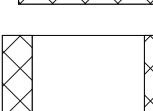
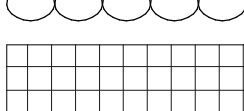
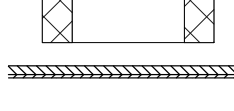

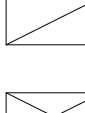


ELEVATION NUMBER

NO

SHT

SHEET NUMBER

MATERIAL SYMBOLS LEGEND

	CONCRETE (CAST-IN-PLACE)		PLASTER (GYPSUM OR PORTLAND CEMENT)
	GROUT		GLASS (ELEVATION)
	BRICK (COMMON/FACE)		EARTHWORK (CRUSHED ROCK GRAVEL)
	CONCRETE MASONRY UNIT		EARTHWORK (COMPACTED FILL)
	STONE (CAST)		SAND
	ALUMINUM		CMU LINTEL
	ORNAMENTAL METAL		CMU BOND BEAM
	STEEL AND OTHER METALS		CMU (SECTION)
	INSULATION (BLANKET)		PLYWOOD
	INSULATION, RIGID BOARD		WOOD BLOCKING OR SHIM
	SHEET METAL		WOOD FRAMING (CONTINUOUS)

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SHEET NAME	
TYPICAL MOUNTING HEIGHTS INTERIOR DESIGN ELEVATIONS INTERIOR DESIGN ELEVATIONS APPARATUS BAY ELEVATIONS CASEWORK SECTIONS FINISH SCHEDULE	
MPE SITE PLAN SITE LIGHTING PHOTOMETRIC PLAN MPE ROOF PLAN HVAC SYMBOLS LEGEND FIRST FLOOR HVAC PLAN SECOND FLOOR HVAC PLAN FIRST FLOOR HVAC PIPING PLAN SECOND FLOOR HVAC PIPING PLAN MECHANICAL DETAILS MECHANICAL SCHEDULES MECHANICAL SCHEDULES	STRUCTURAL ENGINEER LEIGH + O'KANE MISSOURI COA #001644 250 NE MULBERRY, SUITE 201 LEE'S SUMMIT, MO 64086 (816) 444-3144
MPE SITE PLAN SITE LIGHTING PHOTOMETRIC PLAN MPE ROOF PLAN HVAC SYMBOLS LEGEND FIRST FLOOR HVAC PLAN SECOND FLOOR HVAC PLAN FIRST FLOOR HVAC PIPING PLAN SECOND FLOOR HVAC PIPING PLAN MECHANICAL DETAILS MECHANICAL SCHEDULES MECHANICAL SCHEDULES	MECH., ELECT. & PLMG. ENGINEERS HOSS & BROWN ENGINEERS MISSOURI COA #010222 15802 MIDLAND DRIVE SHAWNEE, KS 66217 (913) 362-9090
PLUMBING SYMBOLS LEGEND UNDERGROUND PLUMBING PLAN FIRST FLOOR PLUMBING PLAN SECOND FLOOR PLUMBING PLAN PLUMBING DETAILS WASTE AND VENT RISERS DOMESTIC WATER RISERS PLUMBING SCHEDULES	SECURITY & IT ENGINEERS HENDERSON ENGINEERS MISSOURI COA #000556 1801 MAIN STREET, SUITE 300 KANAS CITY, MO 64108 (816) 663-8700
ELECTRICAL SYMBOLS LEGEND FIRST FLOOR LIGHTING RCP SECOND FLOOR LIGHTING RCP FIRST FLOOR POWER PLAN SECOND FLOOR POWER PLAN FIRST FLOOR FIRE ALARM PLAN SECOND FLOOR FIRE ALARM PLAN ELECTRICAL DETAILS ELECTRICAL ONE-LINE DIAGRAM ELECTRICAL SCHEDULES PANELBOARD SCHEDULES	FIRE STATION #4 CITY OF LEE'S SUMMIT 5031 NORTHEAST LAKEWOOD WAY LEE'S SUMMIT, MISSOURI 64064
AUDIO-VIDEO GENERAL NOTES AUDIO-VIDEO GENERAL SYMBOLS AUDIO-VIDEO LEVEL 1 PLAN AUDIO-VIDEO LEVEL 2 PLAN AUDIO-VIDEO LEVEL 1 RCP AUDIO-VIDEO SCHEDULES & SIGNAL FLOWS	ISSUED FOR CONSTRUCTION
TECHNOLOGY TECHNOLOGY GENERAL NOTES TECHNOLOGY LEVEL 1 PLAN TECHNOLOGY LEVEL 2 PLAN TECHNOLOGY LEVEL 1 RCP TECHNOLOGY LEVEL 2 RCP ENLARGED PLANS TECHNOLOGY DETAILS TECHNOLOGY DETAILS	REVISIONS:
SECURITY GENERAL NOTES SECURITY SITE PLAN SECURITY LEVEL 1 PLAN SECURITY LEVEL 2 PLAN SECURITY DETAILS	# Description Date
Paul J. Michell - Architect MO# A-2009021701	
PROJECT NO: 1822SR210	
DATE: 11.21.20	
DRAWN BY: CF	
CHK'D BY: PJ	
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**RELEASED FOR
CONSTRUCTION**
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
01/10/2023

FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

PAUL J. MICHELL
NUMBER
A-2009021701
4/21/22
ARCHITECT

PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

The Professional Architect was affixed to this sheet applies only to the material herein and does not extend to other drawings, instruments or other documents not exhibiting this seal and shall not be deemed approved by this architect and this architect expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting this seal.

PROJECT NO:	18225R210
DATE:	11.21.20
DRAWN BY:	CF
CHK'D BY:	PJ

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G-001



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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:		
#	Description	Date
1	ASB 01	11/21/2022



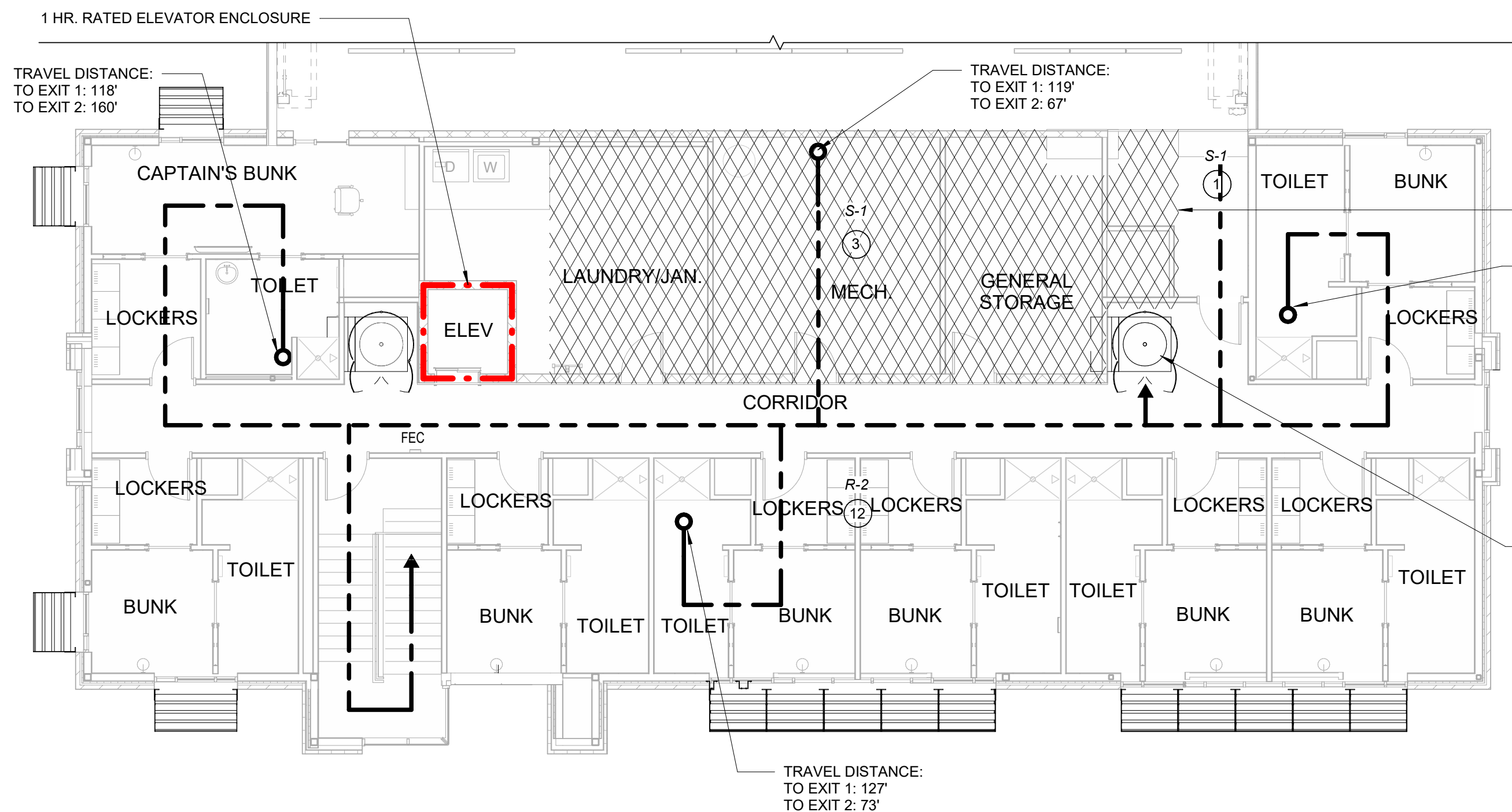
PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

PROJECT NO: 18225R21001
DATE: 11.21.2022
DRAWN BY: CRB
CHK'D BY: PJM

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CODE SUMMARY

G-002



2 LEVEL 2 CODE PLAN

CODE INFORMATION

I. Applicable Codes

- 2018 IBC
- 2020 ICC 500
- ICC/ANSI A117.1-2009
- 28 CODE OF FEDERAL REGULATIONS (CFR) PART 35.15 AS DETAILED IN THE DEPARTMENT OF JUSTICE TITLE II ADA REGULATIONS AND THE 2010 ADA STANDARDS OF ACCESSIBLE DESIGN

II. Building Information:

- II-B Construction (Per IBC 602)
- Fully Sprinklered (Per IBC 901.2)
- Full Perimeter Frontage (Per IBC 506.3)
- Use Group: Mixed Non-separated S-1, S-2, B, R-2 (Per IBC 508.3)

III. Code Compliance Summary:

A. Building Height & Area:

- Allowable Area / Stories / Height per IBC Table 504.3, 504.4, 506.2, Fully-Sprinklered:
 - S-1: 52,500 sf / 3-story / 75 ft. (S-1 most restrictive height)
 - S-2: 78,000 sf / 4-story / 75 ft.
 - B: 69,000 sf / 4-story / 75 ft.
 - R-2: 48,000 sf / 5-story / 75 ft. (R-2 most restrictive area)

2. Allowable:

Height: 3-story, 75 ft.
Area per story: 48,000 sf

3. Proposed:

Height: 2-Story Building, 33 ft
Area:
7,692 sf - First Floor
3,754 sf - Second Floor
11,446 sf - Total

98 sf - Mezzanine above Apparatus Bay;
3,606 sf - Apparatus Bay

per IBC 505.2.1: "The aggregate area of a mezzanine or mezzanines within a room shall not exceed one-third of the floor area of that room or space in which they are located."

"Exception 2: The aggregate area of mezzanine in building and structures of Type I or II construction shall be not greater than one-half of the floor area of the room in buildings and structures equipped throughout with an approved automatic sprinkler system in accordance with Section 903.1.1 and an approved emergency voice/alarm communication system in accordance with Section 907.5.2.2."

B. Fire Resistance Ratings

1. Building Elements per IBC Table 601

	Required	Proposed
Exterior Load Bearing Walls	0 hr.	0 hr.
Interior Load Bearing Walls	0 hr.	0 hr.
Structural Frame	0 hr.	0 hr.
Floor Construction	0 hr.	0 hr.
Roof Construction	0 hr.	0 hr.

2. Corridors with Sprinkler System per IBC-T 1020.1

	Required	Proposed
A, B, E, F, M, S, U	0 hr.	0 hr.
R per Code modification. See sheet G-003	0 hr.	0 hr.
Elevator Shaft Enclosure	1 hr.	1 hr.

Notes:

- Per IBC 708.4: "Fire partitions shall extend from the top of the foundation or floor/ceiling assembly below to one of the following: 1. The underside of the floor or roof sheathing, slab or deck above. 2. The underside of a floor/ceiling or roof/ceiling assembly having a fire-resistance rating that is not less than the fire-resistance rating of the fire partition."
- Also, per IBC 708.4.1: "The supporting construction for a fire partition shall have a fire-resistance rating that is equal to or greater than the required fire-resistance rating of the supported fire partition. Exception: In buildings of Types IIB, IIIB and VB construction, the supporting construction requirement shall not apply to fire partitions separating tenant spaces in covered and open mall buildings, fire partitions separating dwelling units, fire partitions separating sleeping units and fire partitions serving as corridor walls."

3. Exterior Walls per Separation Distance IBC Table 601

Greater than 30 feet	0 hr.	0 hr.
Less than 5 feet	1 hr.	1 hr.

4. Maximum Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening Protection per IBC Table 705.8

5 to less than 10 feet, Unprotected, Sprinklered (UP, S)	25%	0 hr.
--	-----	-------

5. Accessory Storage room separation (>100sf)

C. Occupant Load (IBC Table 1004.5)

Business	19
Residential	12
Storage	34
Total	65

D. Plumbing Fixtures as Required per IBC Table 2902.1

Notes:

- Per IBC 2902.1.1, occupancy shall be viewed at 50% male and 50% female
- Per IPC 424.2 "In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets in assembly and education occupancies. Urinals shall not be substituted for more than 50 percent of the required water closets in all other occupancies.
- Occupant loads for plumbing fixture calculations have been calculated in accordance with IPC Table 403.1 and IBC 2902

Business	1894gsf / 100	18.9occ
- Toilets (M):	19occ / 25	0.76
- Toilets (F):	19occ / 25	0.76
- Lavatories (M):	19occ / 25	0.76
- Lavatories (F):	19occ / 25	0.76
- Drinking Fountain:	19occ / 100	0.19
Residential	2538gsf / 200	12.0occ
- Toilets (M):	12occ / 10	1.20
- Toilets (F):	12occ / 10	1.20
- Lavatories (M):	12occ / 10	1.20
- Lavatories (F):	12occ / 10	1.20
- Showers:	12occ / 8	1.50
- Drinking Fountain:	12occ / 100	0.12
Storage	1969gsf / 300	6.6occ
	3606gsf / 200	18.0occ
	322gsf / 50	6.4occ
- Toilets (M):	31occ / 100	0.31
- Toilets (F):	31occ / 100	0.31
- Lavatories (M):	31occ / 100	0.31
- Lavatories (F):	31occ / 100	0.31
- Drinking Fountain:	31occ / 1000	0.03
Totals		
- Toilets (Unisex):	4.54 Required /	11 Provided
- Lavatories (Unisex):	4.54 Required /	11 Provided
- Showers:	1.50 Required /	9 Provided
- Drinking Fountain:	0.34 Required /	1 Provided
- Service Sink:	2 Required /	2 Provided

E. Means of Egress Notes:

- See Code Plan for additional exit / egress information
- Per IBC Table 1017.2, Exit Access Travel Distance shall not exceed 250'.

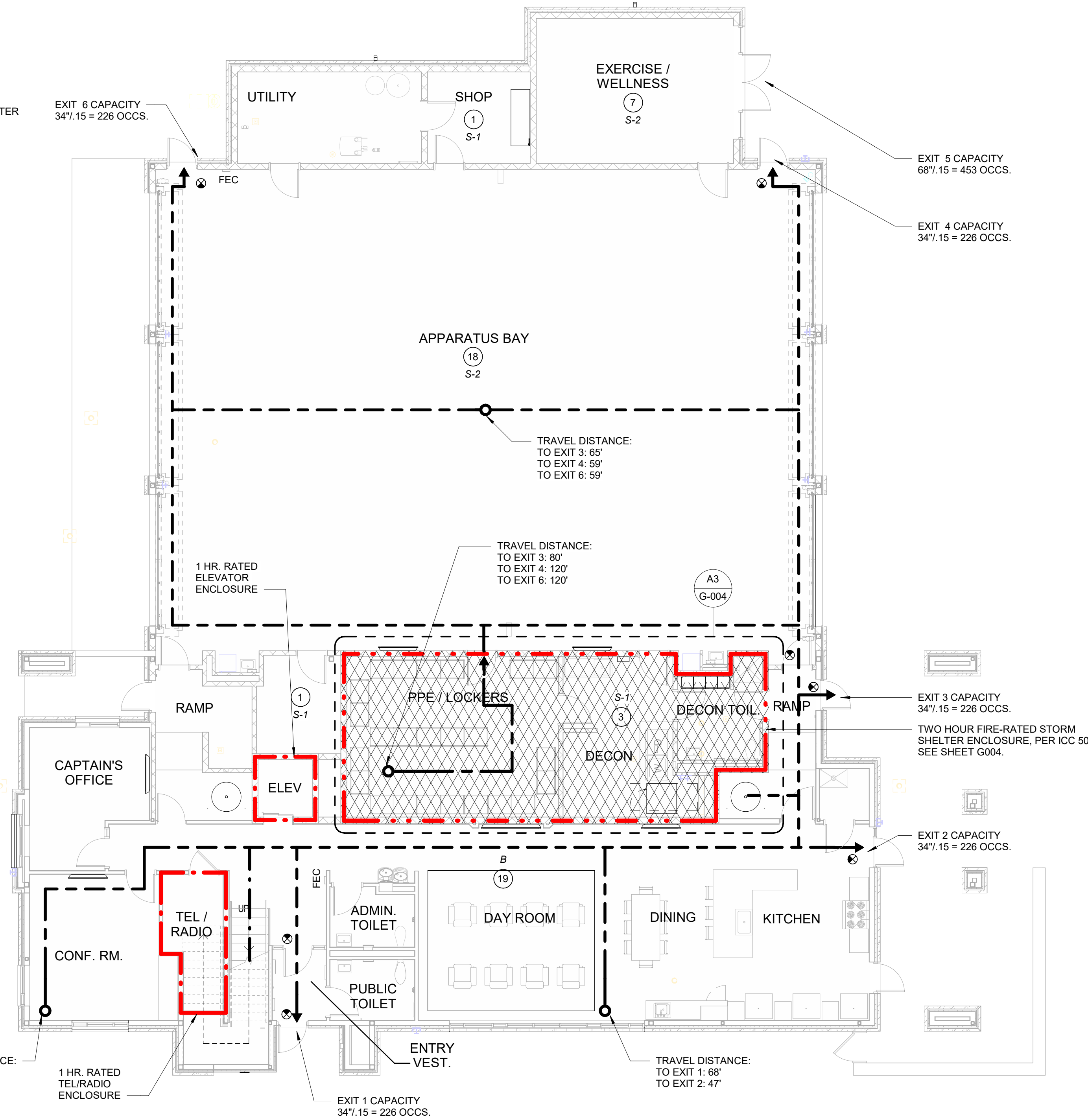
	Required
1. Per IBC Table 1006.2.1	100 ft
B, S	125 ft
R-2	75 ft
All others	

G. Sprinkler System

- NFPA 13
- IBC 903
- Centrally Monitored

H. Fire Alarm System

- Per IBC 907.2.9.1, Exception 1: "Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler waterflow."



1 LEVEL 1 CODE PLAN

CODE PLAN LEGEND

XXXXXX	STORM SHELTER EXTENTS
#	NUMBER OF OCCUPANTS PER AREA
EXIT SIGN	EXIT SIGN
FEC	FIRE EXTINGUISHER CABINET, FULLY RECESSED
DC	DEFIBRILLATOR CABINET, SEMI-RECESSED
S-2	OCCUPANCY USE
EGRESS PATH	EGRESS PATH
1 HR. RATED CONSTRUCTION	1 HR. RATED CONSTRUCTION
2 HR. RATED CONSTRUCTION	2 HR. RATED CONSTRUCTION

INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANCY

PER IBC TABLE 603.13			
Group	INTERIOR EXIT STAIRWAYS AND EXIT PASSAGEWAYS	CORRIDOR AND ENCLOSURE FOR EXIT ACCESS	ROOMS AND ENCLOSED SPACES
B	B	C	C
R-2, S	C	C	C

CLASS A: FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450.
CLASS B: FLAME SPREAD 26-75; SMOKE DEVELOPED 0-450.
CLASS C: FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450.



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**FIRE STATION #4
CITY OF LEE'S SUMMIT**
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:		
#	Description	Date



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

The Professional Architect uses efforts to show applicants only the material and items shown on the plans. All drawings, documents or other documents not submitted by the applicant shall not be considered prepared by the architect, and the architect represents no responsibility for such plans, drawings, or documents not submitted by the applicant.

PROJECT NO: 18225R21001
DATE: 11.21.2022
DRAWN BY: CRB
CHK'D BY: PJM

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CODE MODIFICATION

G-003

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS

1 2 3 4 5 6 7 8

CODE MODIFICATION 1:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

BUILDING/STRUCTURE NAME: Lee's Summit Fire Stations No. 4 & No. 5

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064

FS #5: 801 Missouri Highway 150, Lee's Summit, Missouri 64082

PERMIT NUMBER (if applicable):

OWNER'S NAME: City of Lee's Summit

TO: Director of Development Services

In accordance with the Lee's Summit Building Code, I wish to apply for a modification to one or more provisions of the code as I feel that the spirit and intent of the Lee's Summit Building Code are observed the public health, welfare and safety are assured. The following articulates my request for your review and action. (NOTE: ATTACH ANY ADDITIONAL INFORMATION NECESSARY)

Please see attached memo

SUBMITTED BY:

NAME: Matthew Fadel () OWNER (X) OWNER'S AGENT

ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600

CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

TRACY DEISER - CODES ADMINISTRATION MANAGER () APPROVAL (X) DENIAL

SIGNATURE: Tracy Deiser DATE: 8/11/2022

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: () APPROVED (X) DENIED

SIGNATURE: [Signature] DATE: 8/11/2022

COMMENTS: Stations must comply with accessibility requirements of the 2018 International Building Code

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

Development Services
220 SE Green Street | Lee's Summit, MO 64063 | P: 816.969.1200 | F: 816.969.1221 | cityofLS.net

Guidance on the 2010 ADA Standards for Accessible Design: Volume 2
https://www.ada.gov/reg2010/2010ADASTandardsGuidance2010ADAAs...

physical construction, whichever comes first," stating that "altering a design after a building permit has been issued can be an undue burden."

After considering these comments, the Department has decided to continue to use the commencement of physical construction as the triggering event for application of the 2010 Standards for entities covered by title II. The Department has also added clarifying language at Sec. 35.151(c)(4) to the regulation to make it clear that the date of ceremonial groundbreaking or the date a structure is razed to make it possible for construction of a facility to take place does not qualify as the commencement of physical construction.

Section 234 of the 2010 Standards provides accessibility guidelines for newly designed and constructed amusement rides. The amusement ride provisions do not provide a "triggering event" for new construction or alteration of an amusement ride. An industry commenter requested that the triggering event of "first use," as noted in the Advisory note to section 234.1 of the 2004 ADAAG, be included in the final rule. The Advisory note provides that "[a] custom designed and constructed ride is new upon its first use, which is the first time amusement park patrons take the ride." The Department declines to treat amusement rides differently than other types of new construction and alterations. Under the final rule, they are subject to Sec. 35.151(c). Thus, newly constructed and altered amusement rides shall comply with the 2010 Standards. If the start of physical construction or the alteration is on or after 18 months from the publication date of this rule, the Department also notes that section 234.4 of the 2010 Standards only applies where the structural or operational characteristics of an amusement ride are altered. It does not apply in cases where the only change to a ride is the theme.

Noncomplying new construction and alterations. The element-by-element safe harbor referenced in Sec. 35.150(b)(2) has no effect on new or altered elements in existing facilities that were subject to the 1991 Standards or UFAS on the date that they were constructed or altered, but do not comply with the technical and scoping specifications for those elements in the 1991 Standards or UFAS. Section 35.151(c)(5) of the final rule sets forth the rules for noncompliant new construction or alterations in facilities that were subject to the requirements of this part. Under those provisions, noncomplying new construction and alterations constructed or altered after the effective date of the applicable ADA requirements and before March 15, 2012 shall, before March 15, 2012, be made accessible in accordance with either the 1991 Standards, UFAS, or the 2010 Standards. Noncomplying new construction and alterations constructed or altered after the effective date of the applicable ADA requirements and before March 15, 2012, shall, on or after March 15, 2012 be made accessible in accordance with the 2010 Standards.

§ 35.151(d) Scope of coverage

In the NPRM, the Department proposed a new provision, Sec. 35.151(d), to clarify that the requirements established by Sec. 35.151, including those contained in the 2004 ADAAG, prescribe what is necessary to ensure that buildings and facilities, including fixed or built-in elements in new or altered facilities, are accessible to those elements in the 1991 Standards or UFAS. Section 35.151(c)(5) of the final rule sets forth the rules for noncompliant new construction or alterations in facilities that were subject to the requirements of this part. Under those provisions, noncomplying new construction and alterations constructed or altered after the effective date of the applicable ADA requirements and before March 15, 2012 shall, before March 15, 2012, be made accessible in accordance with either the 1991 Standards, UFAS, or the 2010 Standards. Noncomplying new construction and alterations constructed or altered after the effective date of the applicable ADA requirements and before March 15, 2012, shall, on or after March 15, 2012 be made accessible in accordance with the 2010 Standards.

The Department also wishes to clarify that the advisory notes, appendix notes, and figures that accompany the 1991 and 2010 Standards do not establish separately enforceable requirements unless specifically stated otherwise in the text of the standards. This clarification has been made to address concerns expressed by ANPRM commenters who mistakenly believed that the advisory notes in the 2004 ADAAG established requirements beyond those established in the text of the guidelines (e.g., Advisory 504.4 suggests, but does not require, that covered entities provide visual contrast on stair tread nosing to make them more visible to individuals with low vision). The Department received no significant comments on this section and it is unchanged in the final rule.

Definitions of residential facilities and transient lodging. The 2010 Standards add a definition of "residential dwelling unit" and modify the current definition of "transient lodging." Under section 106.5 of the 2010 Standards, "residential dwelling unit" is defined as "[a] unit intended to be used as a residence, that is primarily long-term in

Guidance on the 2010 ADA Standards for Accessible Design: Volume 2
https://www.ada.gov/reg2010/2010ADASTandardsGuidance2010ADAAs...

nature" and does not include transient lodging, inpatient medical care, licensed long-term care, and detention or correctional facilities. Additionally, section 106.5 of the 2010 Standards changes the definition of "transient lodging" to a building or facility "containing one or more guest rooms" for sleeping that provides accommodations that are primarily short-term in nature. "Transient lodging" does not include residential dwelling units intended to be used as a residence. The references to "dwelling units" and "dormitories" that are in the definition of the 1991 Standards are omitted from the 2010 Standards.

The comments about the application of transient lodging or residential standards to social service center establishments, and housing at a place of education are addressed separately below. The Department received one additional comment on this issue from an organization representing emergency response personnel seeking an exemption from the transient lodging accessibility requirements for crew quarters and common use areas serving those crew quarters (e.g., locker rooms, exercise rooms, day room) that are used exclusively by on-duty emergency response personnel and that are not used for any public purpose. The commenter argued that since emergency response personnel must meet certain physical qualifications that have the effect of exempting persons with mobility disabilities, there is no need to build crew quarters and common use areas serving those crew quarters to meet the 2004 ADAAG. In addition, the commenter argued that applying the transient lodging standards would impose significant costs and create living space that is less stable for most emergency response personnel.

The ADA does not exempt spaces because of a belief or policy that excludes persons with disabilities from certain work. However, the Department believes that crew quarters that are used exclusively as a residence by emergency response personnel and the kitchens and bathrooms exclusively serving those quarters are more like residential dwelling units and are therefore covered by the residential dwelling standards in the 2010 Standards, not the transient lodging standards. The residential dwelling standards address most of the concerns of the commenter. For example, the commenter was concerned that sinks in kitchens and lavatories in bathrooms that are accessible under the transient lodging standards would be too low to be comfortably used by emergency response personnel. The residential dwelling standards allow such features to be adaptable so that they would not have to be lowered until accessibility was needed. Similarly, grab bars and shower seats would not have to be installed at the time of construction provided that reinforcement has been installed in walls and located so as to permit their installation at a later date.

§ 35.151(e) Social service center establishments

In the NPRM, the Department proposed a new Sec. 35.151(e) requiring group homes, halfway houses, shelters, or similar social service center establishments that provide temporary sleeping accommodations or residential dwelling units to comply with the provisions of the 2004 ADAAG that apply to residential facilities, including, but not limited to, the provisions in sections 233 and 809.

The NPRM explained that this proposal was based on two important changes in the 2004 ADAAG. First, for the first time, residential dwelling units are explicitly covered in the 2004 ADAAG in section 233. Second, the 2004 ADAAG eliminates the language contained in the 1991 Standards addressing scoping and technical requirements for homeless shelters, group homes, and similar social service center establishments. Currently, such establishments are covered in section 9.5 of the transient lodging section of the 1991 Standards. The deletion of section 9.5 creates an ambiguity of coverage that must be addressed.

The NPRM explained the Department's belief that transferring coverage of social service center establishments from the transient lodging standards to the residential facilities standards would alleviate conflicting requirements for social service center providers. The Department believes that a substantial percentage of social service center establishments are recipients of Federal financial assistance from the Department of Housing and Urban Development (HUD). The Department of Health and Human Services (HHS) also provides financial assistance for the operation of shelters through the Administration for Children and Families programs. As such, these establishments are covered both by the ADA and section 504 of the Rehabilitation Act. UFAS is currently the design standard for new construction and alterations for entities subject to section 504. The two design standards for accessibility—the 1991 Standards and UFAS—have conferred many social service

CODE MODIFICATION 2:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

BUILDING/STRUCTURE NAME: Lee's Summit Fire Stations No. 4 & No. 5

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064

FS #5: 801 Missouri Highway 150, Lee's Summit, Missouri 64082

PERMIT NUMBER (if applicable):

OWNER'S NAME: City of Lee's Summit

TO: Director of Development Services

In accordance with the Lee's Summit Building Code, I wish to apply for a modification to one or more provisions of the code as I feel that the spirit and intent of the Lee's Summit Building Code are observed the public health, welfare and safety are assured. The following articulates my request for your review and action. (NOTE: ATTACH ANY ADDITIONAL INFORMATION NECESSARY)

Please see attached memo

SUBMITTED BY:

NAME: Matthew Fadel () OWNER (X) OWNER'S AGENT

ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600

CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

TRACY DEISER - CODES ADMINISTRATION MANAGER (X) APPROVAL () DENIAL

SIGNATURE: Tracy Deiser DATE: 8/11/2022

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: (X) APPROVED () DENIED

SIGNATURE: [Signature] DATE: 8/11/2022

COMMENTS:

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

Development Services
220 SE Green Street | Lee's Summit, MO 64063 | P: 816.969.1200 | F: 816.969.1221 | cityofLS.net

CODE MODIFICATION 3:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

BUILDING/STRUCTURE NAME: Lee's Summit Fire Stations No. 4 & No. 5

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064

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Please see attached memo

SUBMITTED BY:

NAME: Matthew Fadel () OWNER (X) OWNER'S AGENT

ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600

CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

Tracy Deiser - Codes Administration Manager (X) APPROVAL () DENIAL

SIGNATURE: Tracy Deiser DATE: 8/11/2022

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: (X) APPROVED () DENIED

SIGNATURE: [Signature] DATE: 8/11/2022

COMMENTS:

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Development Services
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January 25, 2022

Joe Frogge & Mike Weisenborn

City of Lee's Summit, Missouri

Development Services

220 SE Green Street

Lee's Summit, Missouri 64063

RE: City of Lee's Summit Fire Station #4 and #5
Modification Request to IBC 2018 Section 1109.2
Exception #3 – Clustered Multiple Single-User Toilet and Bathing Facilities

Dear Mr. Deister and Mr. Elam:

The Fire Department is constructing two new Fire Stations (No. 4 and No. 5) which will house operational personnel. The two stations will use the same floor plans but on two different sites. LeMay Erickson Willcox Architects (LEWA) and GLMV Architects requests a code modification for the following:

- The request is for the City of Lee's Summit to follow the 2010 Department of Justice "Guidance on the 2010 ADA Standards for Accessible Design" which is attached. The guidance outlines this portion of an Emergency Services building that is covered by the residential dwelling standards rather than the transient lodging standards as these standards apply to the private living spaces of the station (not accessible to the public).

Sincerely,

[Signature]

Matthew Fadel, AIA, LEED AP

Project Manager

January 25, 2022

Joe Frogge & Mike Weisenborn

City of Lee's Summit, Missouri

Development Services

220 SE Green Street

Lee's Summit, Missouri 64063

RE: City of Lee's Summit Fire Station #4 and #5
Modification Request to IBC 2018 Section 508.4.4 and Section 1006.3.3(2)

Dear Mr. Frogge and Mr. Weisenborn:

The Fire Department is constructing two new Fire Stations (No. 4 and No. 5) which will house operational personnel. The two stations will use the same floor plans but on two different sites. LeMay Erickson Willcox Architects (LEWA) and GLMV Architects request a code modification for the following:

- The occupancy classification of the building is designed as "Mixed-Use, non-separated". The design designates the first floor spaces (plan-south of the apparatus bays) as "Business Group B" while the second floor spaces are designated as "Residential Group R-2". In accordance with IBC section 508.4.4, Table 508.4, the code requires that there be a 1-hour fire-rated separation between those occupancies. Also, in accordance with IBC Table 1002.1, because the total occupant load in the R-2 occupancy is greater than 10 (12 total occupants), the required fire-resistance rating for the corridor is 1-hour rating to the exit. The occupants of the R-2 spaces are professional, able-bodied firefighters who will have a detailed familiarity of the building where they will spend most of their time. They are also equipped with the knowledge and experience to handle fire-related issues within their own building. We request that the City of Lee's Summit eliminate the requirement for the "R" and "R-2" occupancies to have 1-hour fire rated separation between occupancies and to eliminate the continuous 1-hour fire rating for egress to an exit. This would allow for the main stair to be open and communicate between the first and second floors and would also allow the two response fire poles to serve as the secondary means of egress from the second floor to the building exits.

Sincerely,

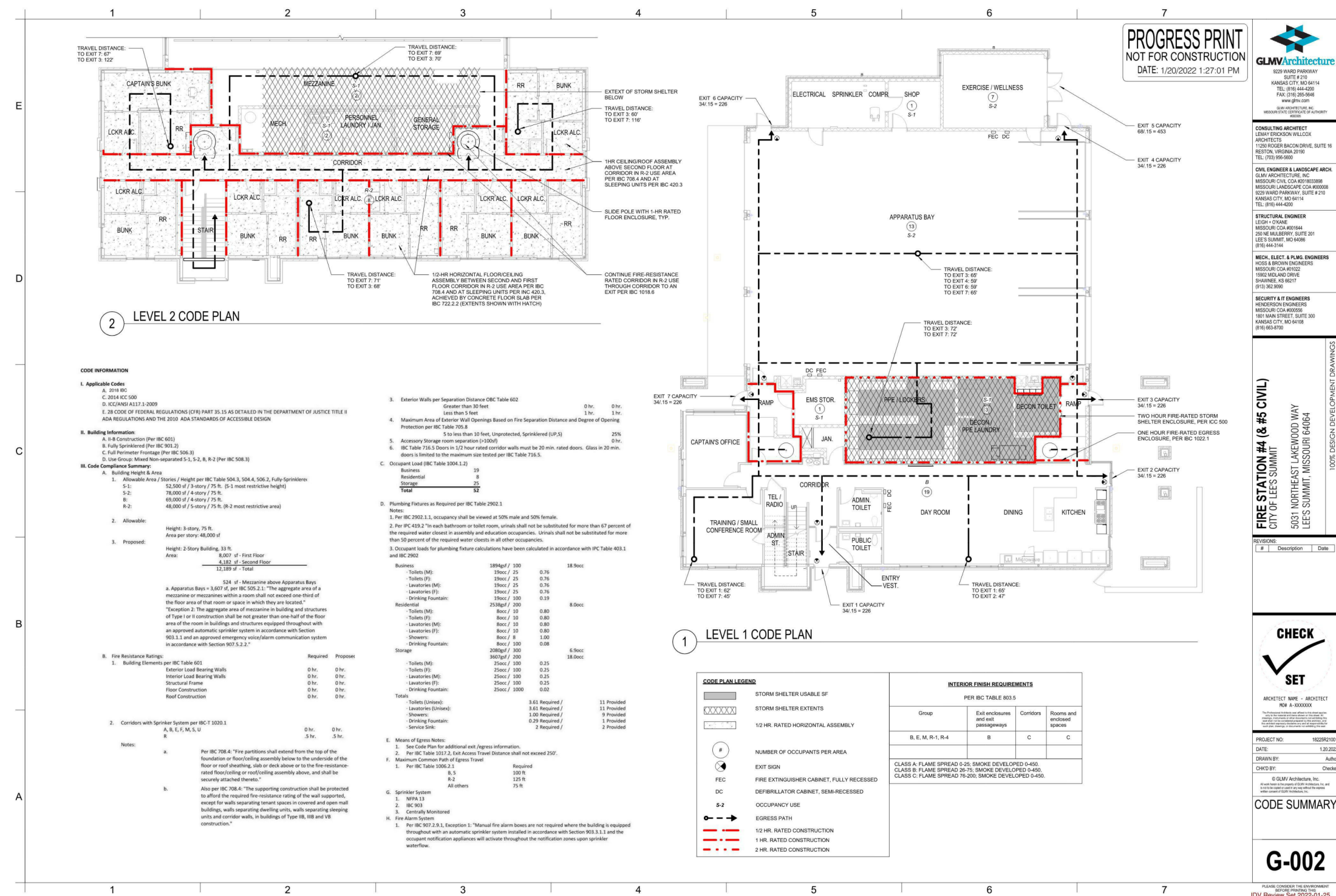
[Signature]

Matthew Fadel, AIA, LEED AP

Project Manager



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City Review Set 2022 01 25

1 2 3 4 5 6 7 8

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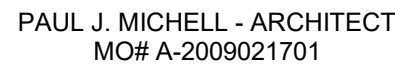
FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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PROJECT NO: 18225R210

DATE: 11.21.20

DRAWN BY: _____ CF

CHK'D BY: _____ P. _____

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STORM SHELTER CODE SUMMARY

G-004

PLEASE CONSIDER THE ENVIRONMENT
BEFORE PRINTING THIS

THE PROJECT HAS BEEN DESIGNED TO THE ICC 500-2020, ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTER REQUIREMENTS.

SEE STRUCTURAL, ARCHITECTURAL, INTERIOR, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND CALCULATIONS NOT REPRESENTED ON THIS SHEET.

REFER TO THIS SHEET FOR EXTENTS OF THE STORM SHELTER.

§106.2.1] DESIGN INFORMATION

- | | |
|--|--|
| <ul style="list-style-type: none"> • TYPE: | COMMUNITY SHELTER FOR TORNADO PROTECTION |
| <ul style="list-style-type: none"> • RISK CATEGORY: | IV (FIRE, RESCUE, AMBULANCE AND POLICE STATIONS) |
| <ul style="list-style-type: none"> • DESIGN WIND SPEED (V_i): | 250 MPH |
| <ul style="list-style-type: none"> • WIND EXPOSURE CATEGORY: | C |
| <ul style="list-style-type: none"> • INTERNAL PRESSURE COEFFICIENT (GC_p): | +/- 0.55 |
| <ul style="list-style-type: none"> • TOPOGRAPHIC FACTOR (K_z): | 1.0 |
| <ul style="list-style-type: none"> • DIRECTIONALITY FACTOR (K_d): | 1.0 |
| <ul style="list-style-type: none"> • DESIGN WIND PRESSURE FOR THE SPECIFICATION OF COMPONENTS AND CLADDING OF THE STORM SHELTER ENVELOPE | SEE STRUCTURAL SHEET S-001 |
| <ul style="list-style-type: none"> • SITING: <ul style="list-style-type: none"> • MINIMUM FLOOR ELEVATION PER AUTHORITY HAVING JURISDICTION | N/A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • 500-YEAR FLOOD ELEVATION | N/A - STRUCTURE NOT LOCATED IN A FLOOD ZONE |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • STORM SURGE FLOOD ELEVATION | N/A - STRUCTURE NOT LOCATED IN A FLOOD ZONE |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • STORM SURGE FLOOD ELEVATION | 100' - 0" (909.24' CIVIL) |
| <ul style="list-style-type: none"> • OCCUPANT LOAD (AS A STORM SHELTER) | |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • DESIGN OCCUPANCY LOAD | 80 |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • USABLE FLOOR AREA | 407 S.F. (AS INDICATED WITH HATCHED AREA PER §502.4.2) |
| <ul style="list-style-type: none"> • VENTING AREA | REFERENCE MPE SHEET |
| <ul style="list-style-type: none"> • SANITATION FIXTURE CALCULATION (TABLE 702.3) | |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • STORM SHELTER TYPE: | COMMUNITY, DESIGN OCCUPANCY LOAD ≥ 50 = 50 |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • WATER CLOSETS: | 1 (1 PER 250 FOR THE FIRST 50 OCCUPANTS) REQ'D, 1 PROVIDED |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • HAND WASHING FACILITIES: | 1 (1 PER 1,000 OCCUPANTS) REQ'D, 1 PROVIDED |
| <ul style="list-style-type: none"> • MINIMUM FOUNDATION REQUIREMENTS | |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • CAPACITY | REFERENCE STRUCTURAL SHEETS |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • THICKNESS | REFERENCE STRUCTURAL SHEETS |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • STEEL REINFORCEMENT/ CONCRETE COVER | SEE STRUCTURAL SHEETS |
| <ul style="list-style-type: none"> • INSTALLATION REQUIREMENTS | |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • ANCHOR LOCATION, MINIMUM EDGE/ END DISTANCE | REFERENCE STRUCTURAL SHEETS |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> • MIN. REQUIRED CAPACITY POST-INSTALLED ANCHORS | |

MAXIMUM TRAVEL DISTANCE TO ICC-500 SHELTER:
1,000'-0" MAX. REQUIRED (PER IBC 423).
163'-0" PROVIDED FROM ROOM 203A.

STORM SHELTER SITING:

1. STORM SHELTER HAS NOT BEEN DESIGNED WITHIN AN AREA ON THE SITE SUSCEPTIBLE TO FLOODING.
2. STORM SHELTER HAS NOT BEEN DESIGNED WITHIN AN AREA PROXIMATE TO HAZARDOUS MATERIALS.
3. STORMSHELTER IS LOCATED OUTSIDE A HIGH-RISK FLOOR HAZARD AREA.

SECTION 504

SIGNAGE FOR COMMUNITY SHELTERS

508.1 SIGNAGE REQUIREMENTS.

All storm shelters shall be marked with design information in accordance with Section 508.2. Community storm shelter areas shall be marked by signage in accordance with Sections 508.3 through 508.7, as applicable. All signs shall comply with the visual character requirements of ICC 117.1.

508.2 DESIGN INFORMATION SIGNAGE.

All storm shelters shall have a sign on or within the storm shelter with all of the following:

1. The design occupant capacity.
2. The storm type.
3. The design wind speed.
4. The edition of the ICC 500 used for the design.
5. The name of the manufacturer or builder of the storm shelter.

508.5 DIRECTIONAL SIGNAGE WITHIN A HOST BUILDING

Where a storm shelter is within a host building, to direct unintended occupants to the storm shelter. The path of travel to the storm shelter shall be clearly marked to indicate the direction of travel in cases where the path of travel is not immediately visible to the intended occupants.

508.6 ENTRY SIGNAGE

Signage indicating "Tornado Shelter" or "Hurricane Shelter" and appropriate symbols as applicable, shall be installed on the outside of the storm shelter, adjacent to every access opening intended to provide entry for occupants into the storm shelter.

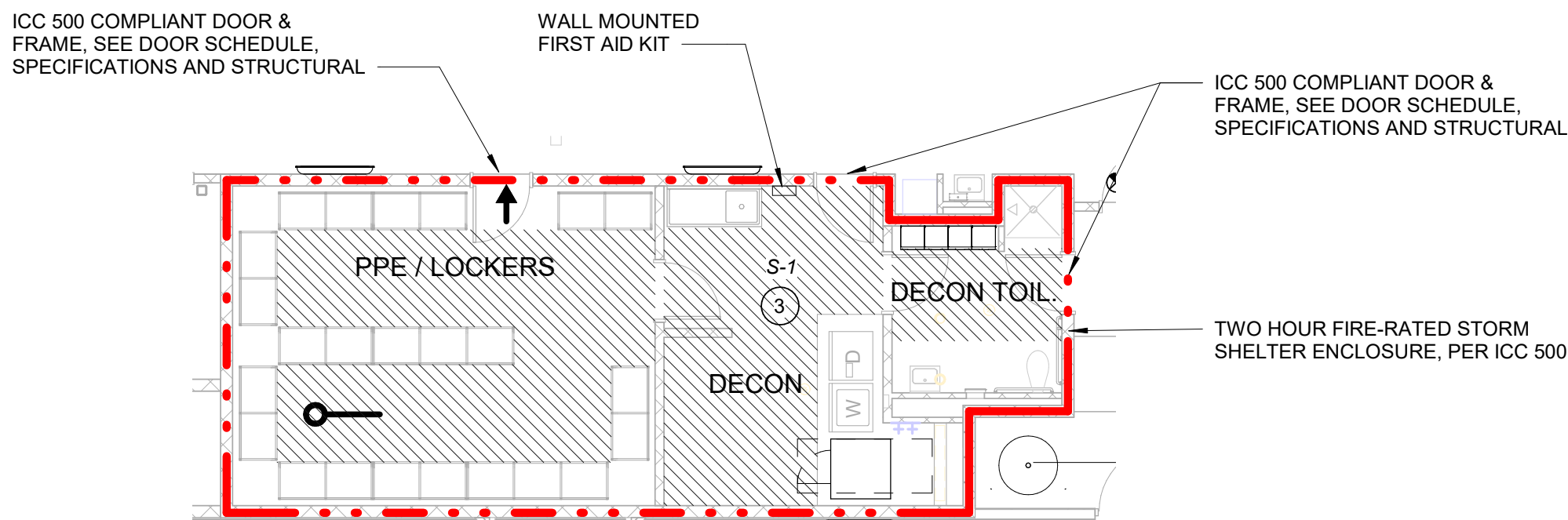
508.7 PERIMETER SIGNAGE

Signs shall be installed inside of the storm shelter adjacent to every access or egress opening, which access nonprotected areas located outside of the storm shelter. For example, signage indicating "Notice: Now leaving the Tornado shelter," or "Notice: Now leaving the Hurricane Shelter."

STORM SHELTER LEGEND



2 HR FIRE SEPARATION ASSEMBLY -
REFER TO WALL ASSEMBLY AND PARTITION TYPE DETAILS FOR
ASSEMBLY INFORMATION



LEVEL 1 CODE PLAN - STORM SHELTER

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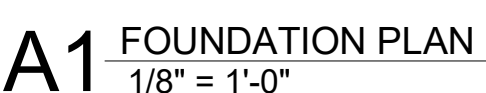
OD WAY
34064

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PLEASE CONSIDER THE ENVIRONMENT



1. TOP OF CONCRETE SLAB ELEVATION = 100'-0" U.N.O.
2. SLAB REINFORCEMENT PER SCHEDULE
3. SLAB CONTROL AND CONSTRUCTION JOINTS PER TYPICAL DETAILS. CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR CONTROL JOINTS AT THE CONTRACTOR'S DISCRETION.
4. ISOLATION JOINTS PER DETAIL 11/S-402
5. FOOTING STEPS PER DETAIL 13/S-402
6. CONTRACTOR TO COORDINATE ALL FLOOR AND SLAB PENETRATIONS WITH ALL OTHER DISCIPLINES.
7. DURING INSTALLATION OF ALL POST OR OBSTRUCTION ANCHORS, CARE MUST BE TAKEN TO AVOID ALL REINFORCING.
8. REFER TO ARCHITECTURAL FOR NON-LOAD BEARING WALL LOCATIONS.
9. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
10. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR RETAINING WALL AND RAMP LOCATION AND ELEVATION INFORMATION.
11. GENERATOR PADS TO BE 12" THICK CONCRETE W/5 @ 8" O.C. EACH WAY TOP AND BOTTOM, REFER TO MANUFACTURER'S INFORMATION FOR REQUIRED PAD SIZE. REFER TO CIVIL & MEP DRAWINGS FOR LOCATIONS.

STRUCTURAL COLUMN SCHEDULE	
MARK	COLUMN
C1	HSS4X4X3/8
C2	HSS4X4X1/2
C3	HSS6X6X3/8
C4	HSS6X6X1/2
C5	HSS6X6X5/8

SLAB SCHEDULE		
MARK	TYPE	REINFORCEMENT
S1	4" SLAB ON GRADE	#4 @ 16" O.C. E.W.
S2	8" SLAB ON GRADE	#6 @ 18" O.C. E.W.
S3	12" STORM SHELTER LID	#5 @ 8" O.C. T/B E.W.

A1 FOUNDATION PLAN
1/8" = 1'-0"

FILE PATH: BM 360//18225R21001_LeesSummitFireStation_#4 and #5LSMO_FIRE STATIONS_STRUCT.rvt

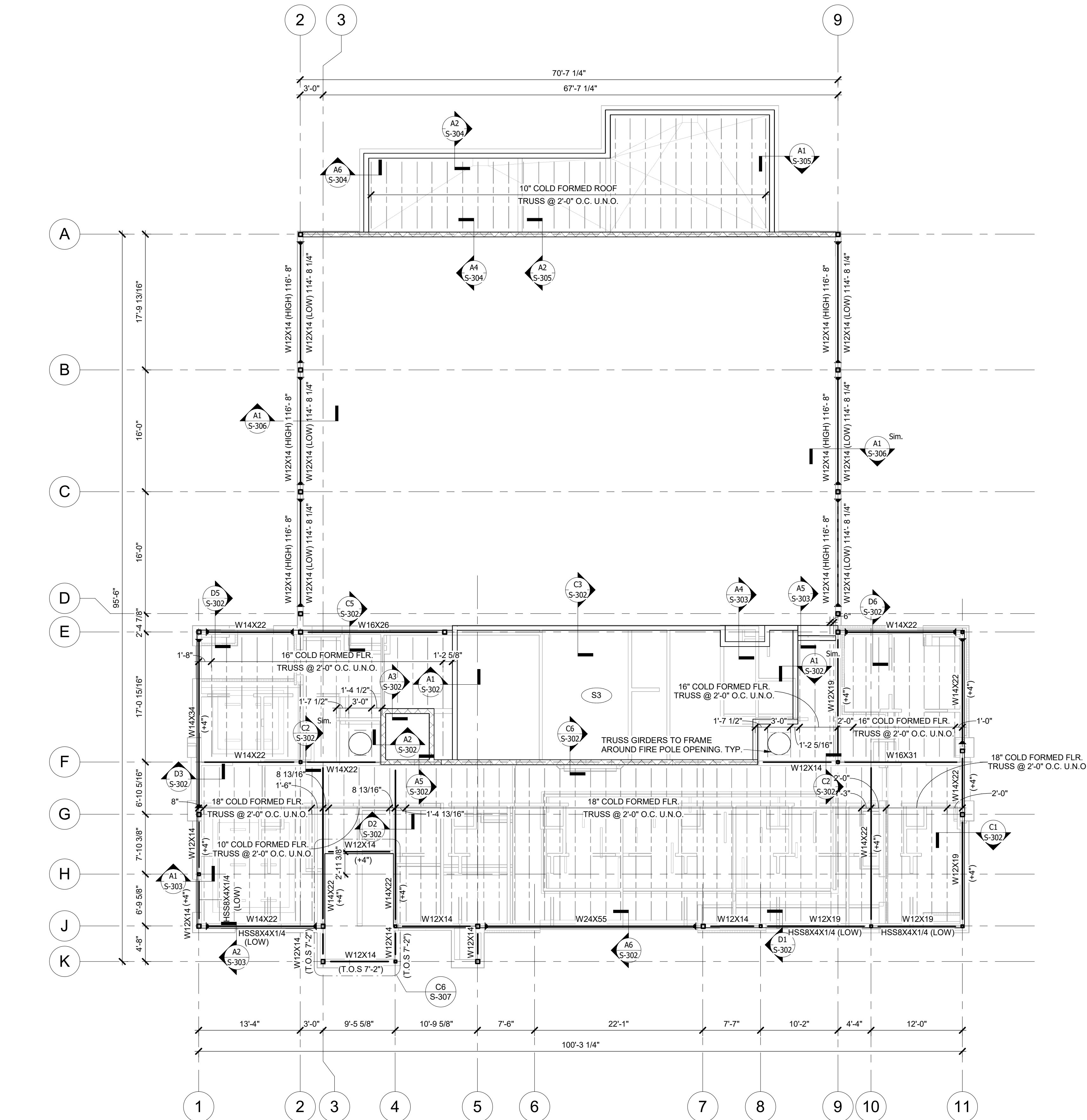
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C

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A



A1 LEVEL 2 FRAMING PLAN
1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.58 20 GA. DECK FASTENED IN A 36/4 PATTERN USING # 10 SCREWS
2. OPENINGS IN THE ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
3. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE PLANS.
4. NON-LOAD BEARING STUD WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF ROOF FRAMING
5. COLD FORMED ROOF JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
6. COLD FORMED JOISTS TO BE 16 GA. METAL OR THICKER AS REQUIRED BY DESIGN.
7. SPECIFIED TRUSS SPACINGS ARE A MAXIMUM. TRUSSES CAN BE SHIFTED AS LONG AS THE MAX SPACING IS UPHELD.

FLOOR FRAMING PLAN NOTES:

1. T.O.S. 112'-1"
2. FLOOR DECK 0.6C 22GA. METAL DECK W/ 3" TOTAL DEPTH CONCRETE FASTENED TO SUPPORTS USING #10 SCREWS IN A 36/4 PATTERN W/ (3) # 10 SCREW SIDE LAP FASTENERS PER SPAN. DECK MUST SPAN A MIN. OF 2 SPANS. REINFORCE CONCRETE W/ WWF 6X6 - W1.4XW1.4
3. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
4. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
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SLAB SCHEDULE			
MARK	TYPE	REINFORCEMENT	
S1	4" SLAB ON GRADE	#4 @ 16" O.C. E.W.	
S2	8" SLAB ON GRADE	#6 @ 18" O.C. E.W.	
S3	12" STORM SHELTER LID	#5 @ 8" O.C. T/B E.W.	



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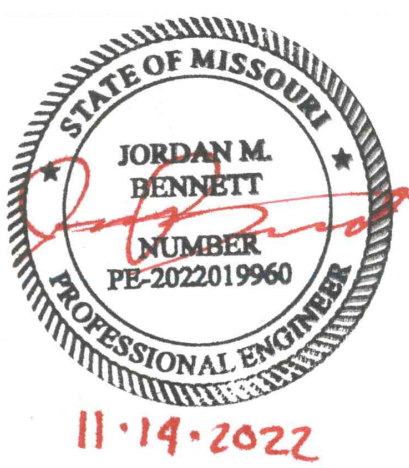
FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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REVISIONS:

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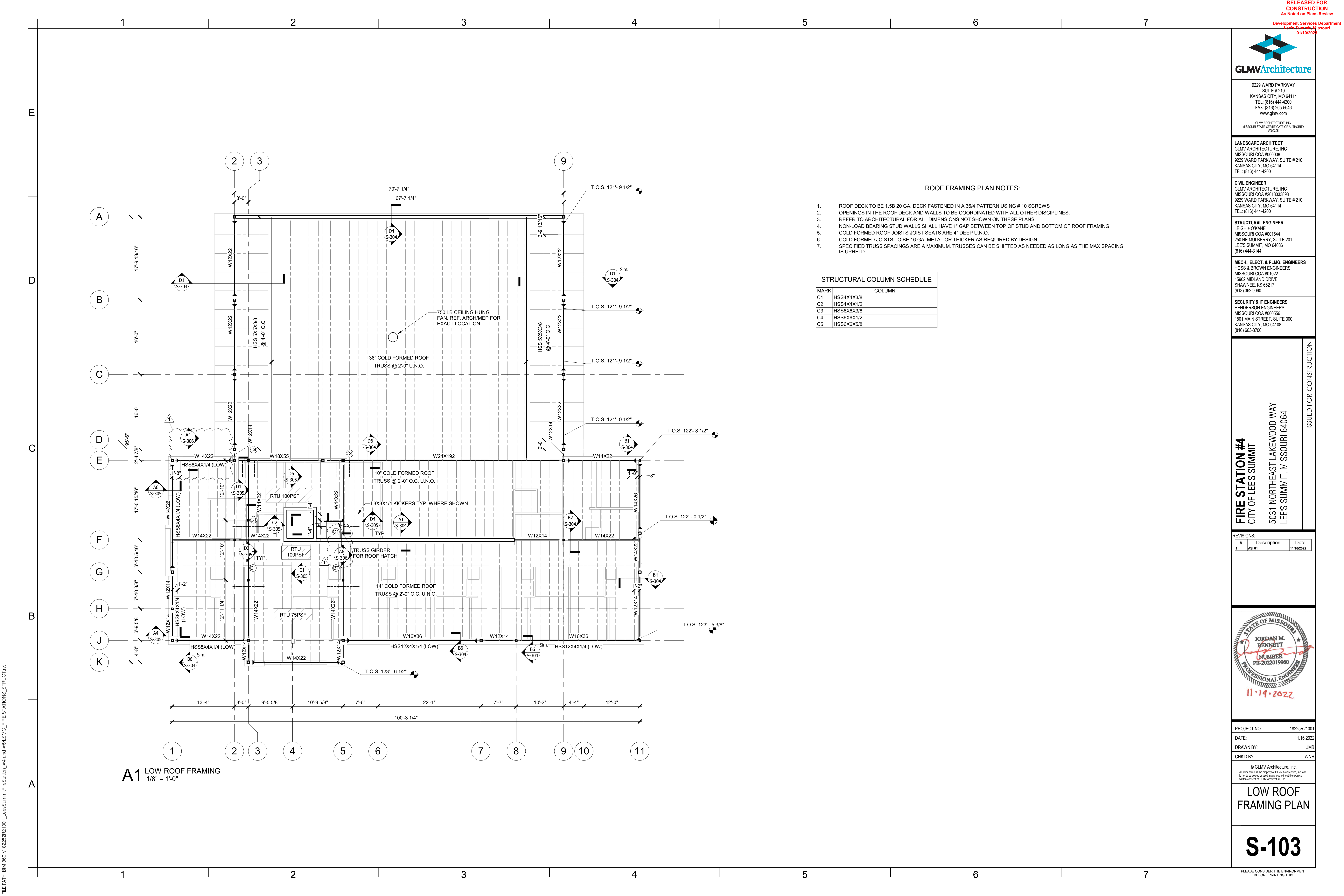


PROJECT NO: 18225R21001
DATE: 11.16.2022
DRAWN BY: JMB
CHKD BY: WNH

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LEVEL 2
FRAMING PLAN

S-101



ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.5B 20 GA. DECK FASTENED IN A 3/4" PATTERN USING # 10 SCREWS
2. OPENINGS IN THE ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
3. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE PLANS.
4. NON-LOAD BEARING STUD WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF ROOF FRAMING
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C2	HSS4X4X1/2
C3	HSS6X6X3/8
C4	HSS6X6X1/2
C5	HSS6X6X5/8

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As Noted on Plans Review
Lee's Summit, Missouri
01/10/2023

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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
1	ASB 01	11/16/2022

PROJECT NO: 18225R21001
DATE: 11.16.2022
DRAWN BY: JMB
CHKD BY: WNH

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LOW ROOF
FRAMING PLAN

S-103

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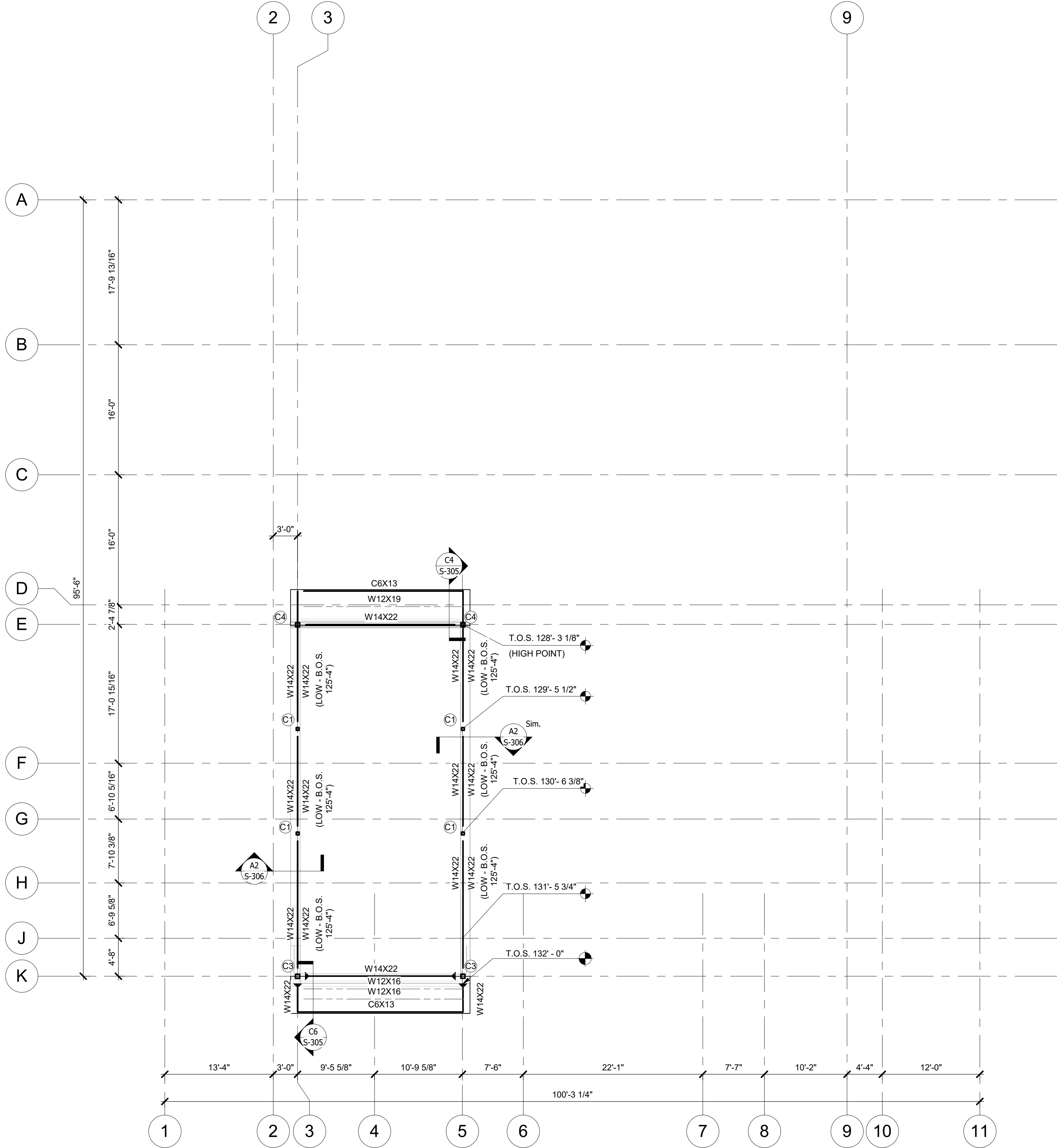
E

D

C

B

A



A1 ROOF
1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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STATE OF MISSOURI
JORDAN M. BENNETT
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PE-2022019960
11.14.2022

PROJECT NO: 18225R21001

DATE: 11.16.2022

DRAWN BY: JMB

CHKD BY: WNH

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**HIGH ROOF
FRAMING PLAN**

S-104

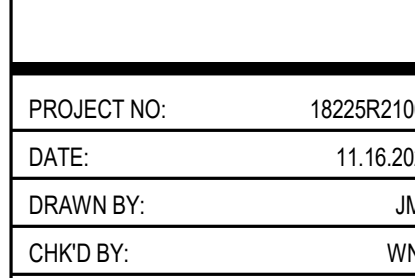
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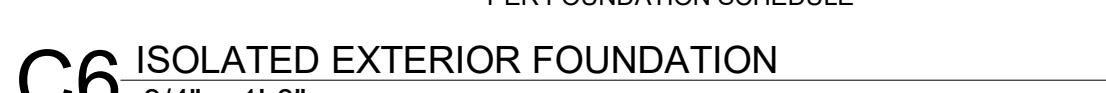
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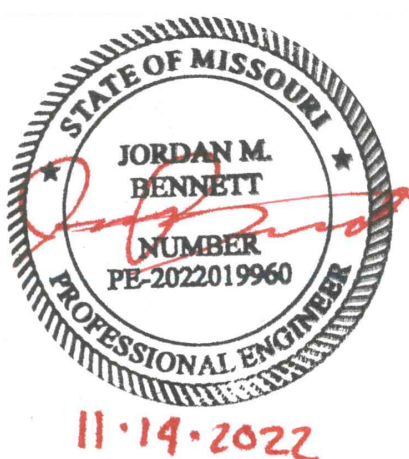
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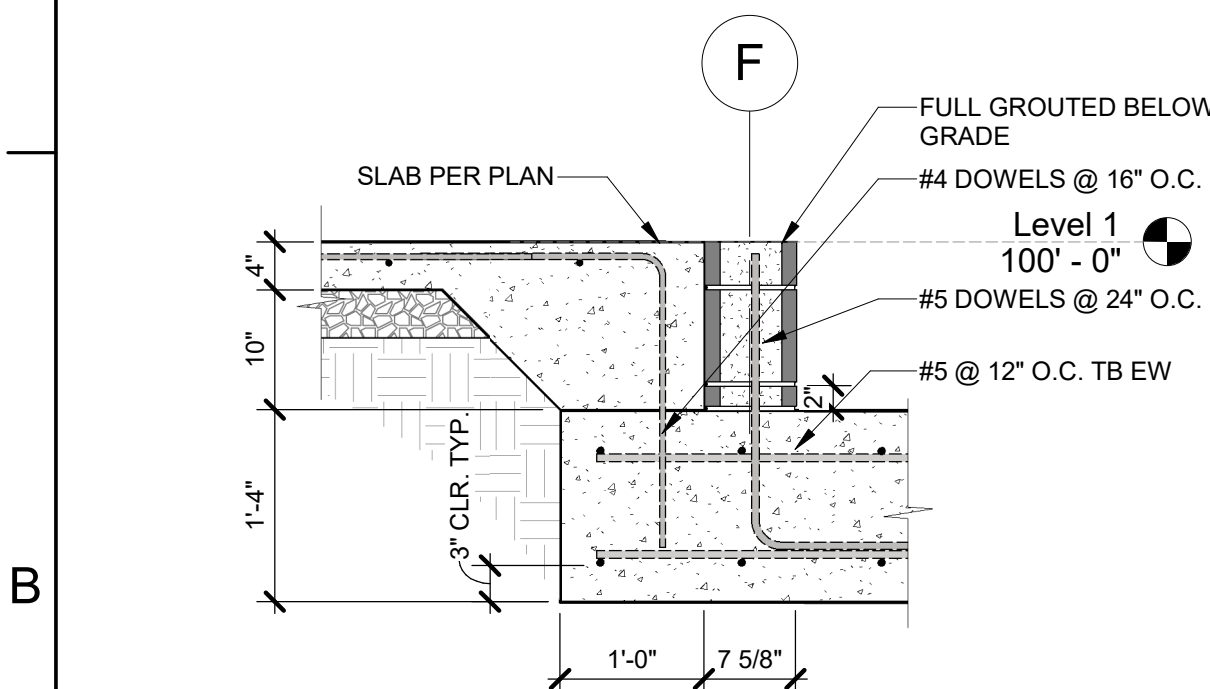
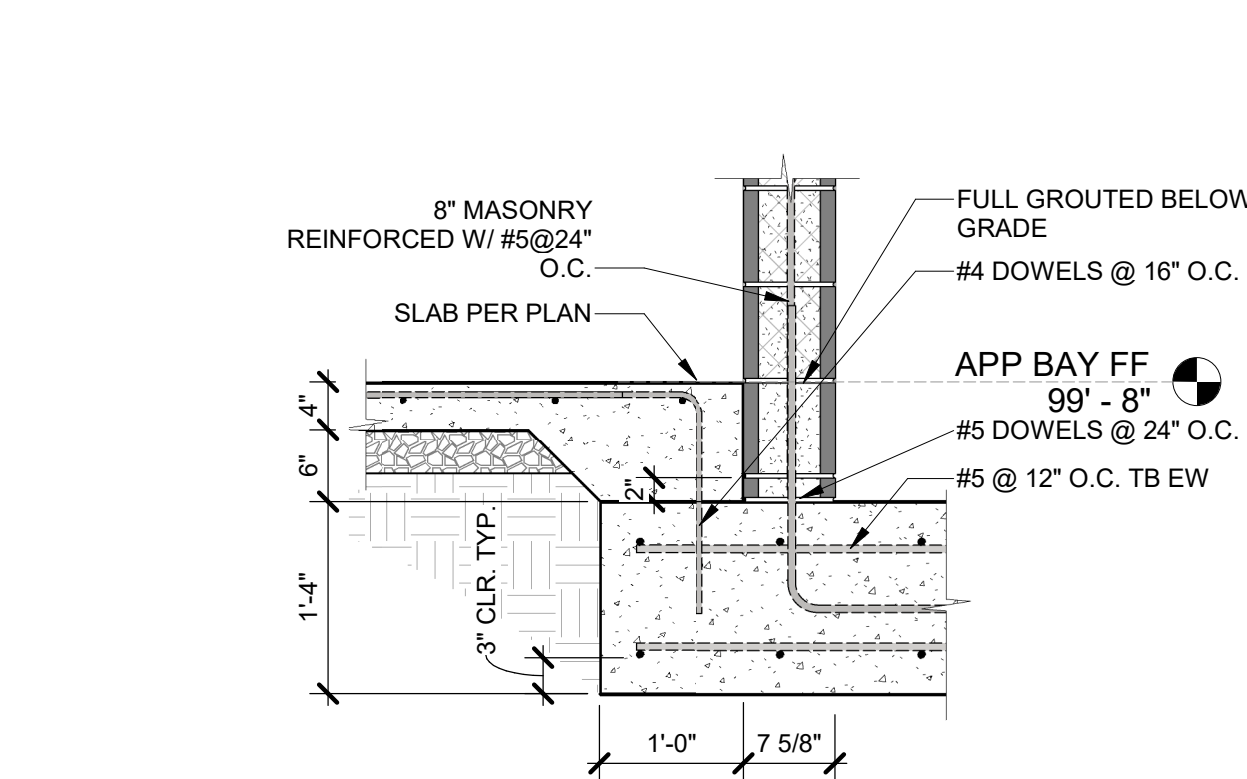
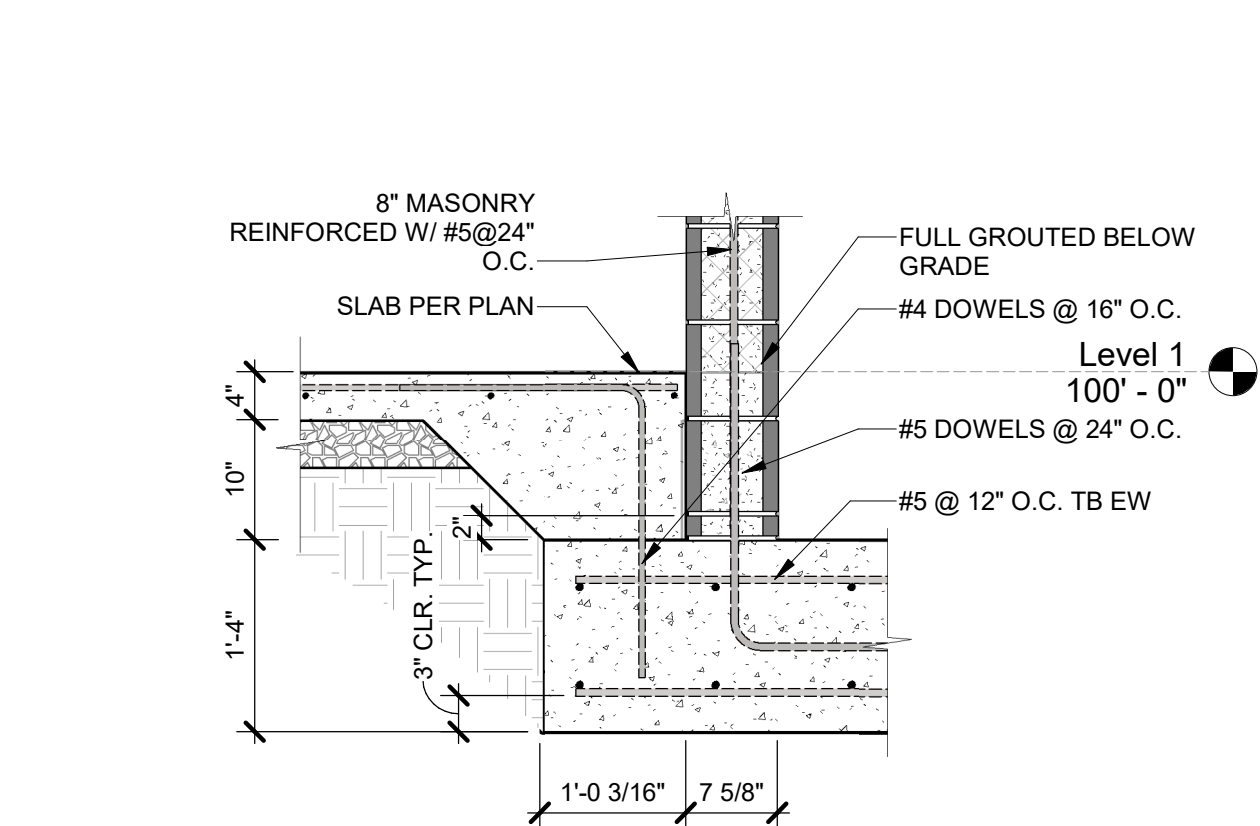
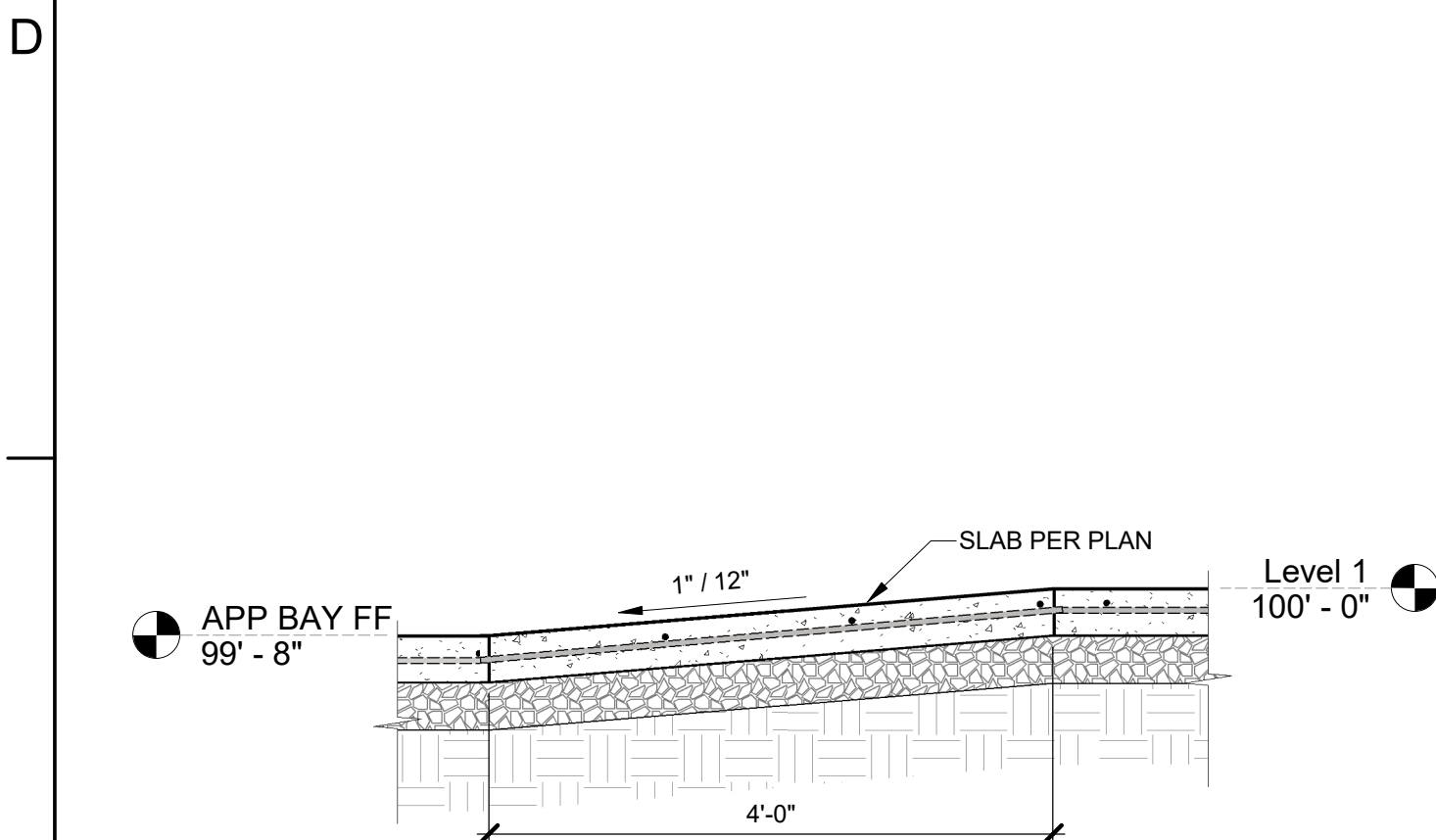
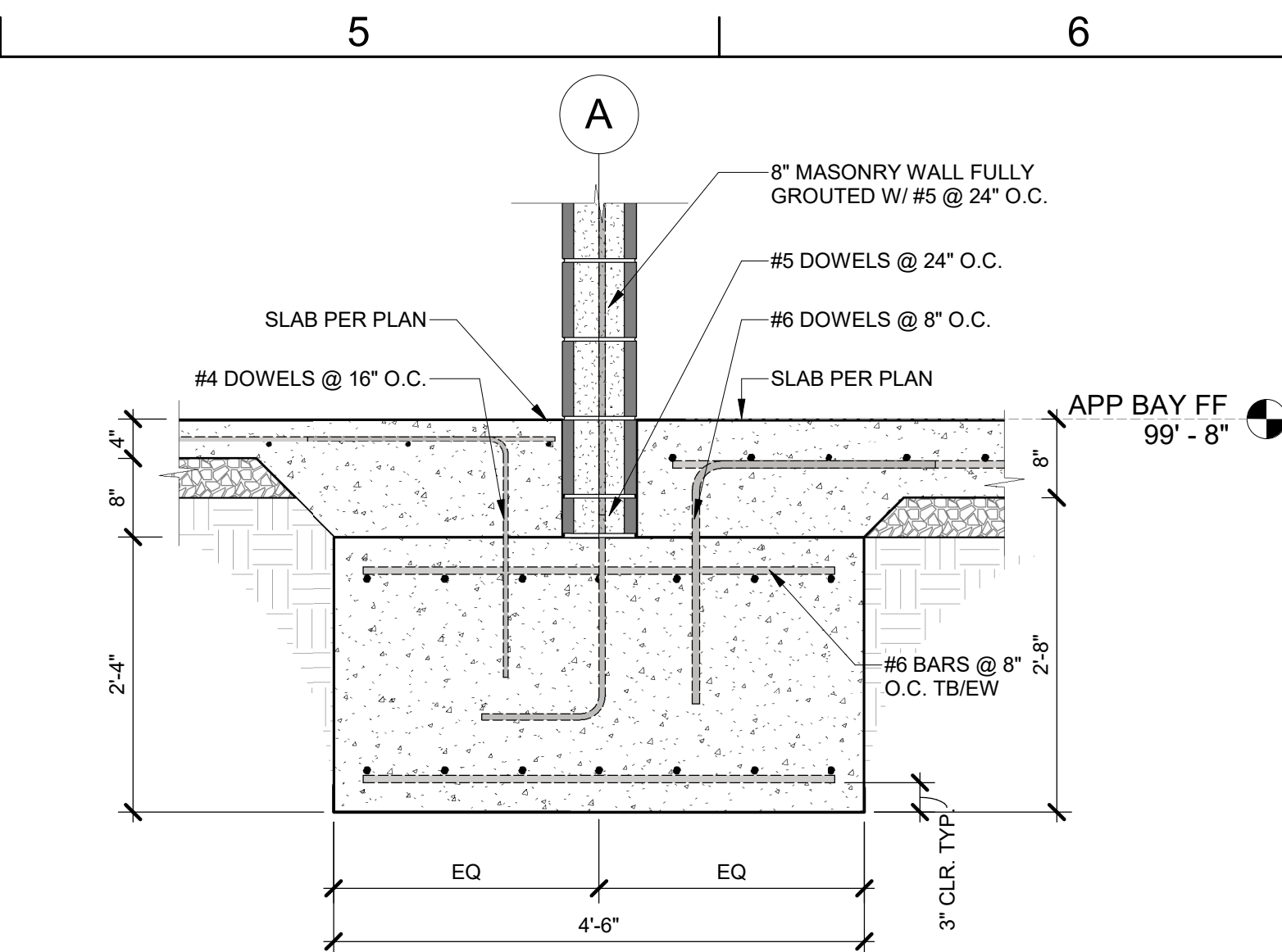
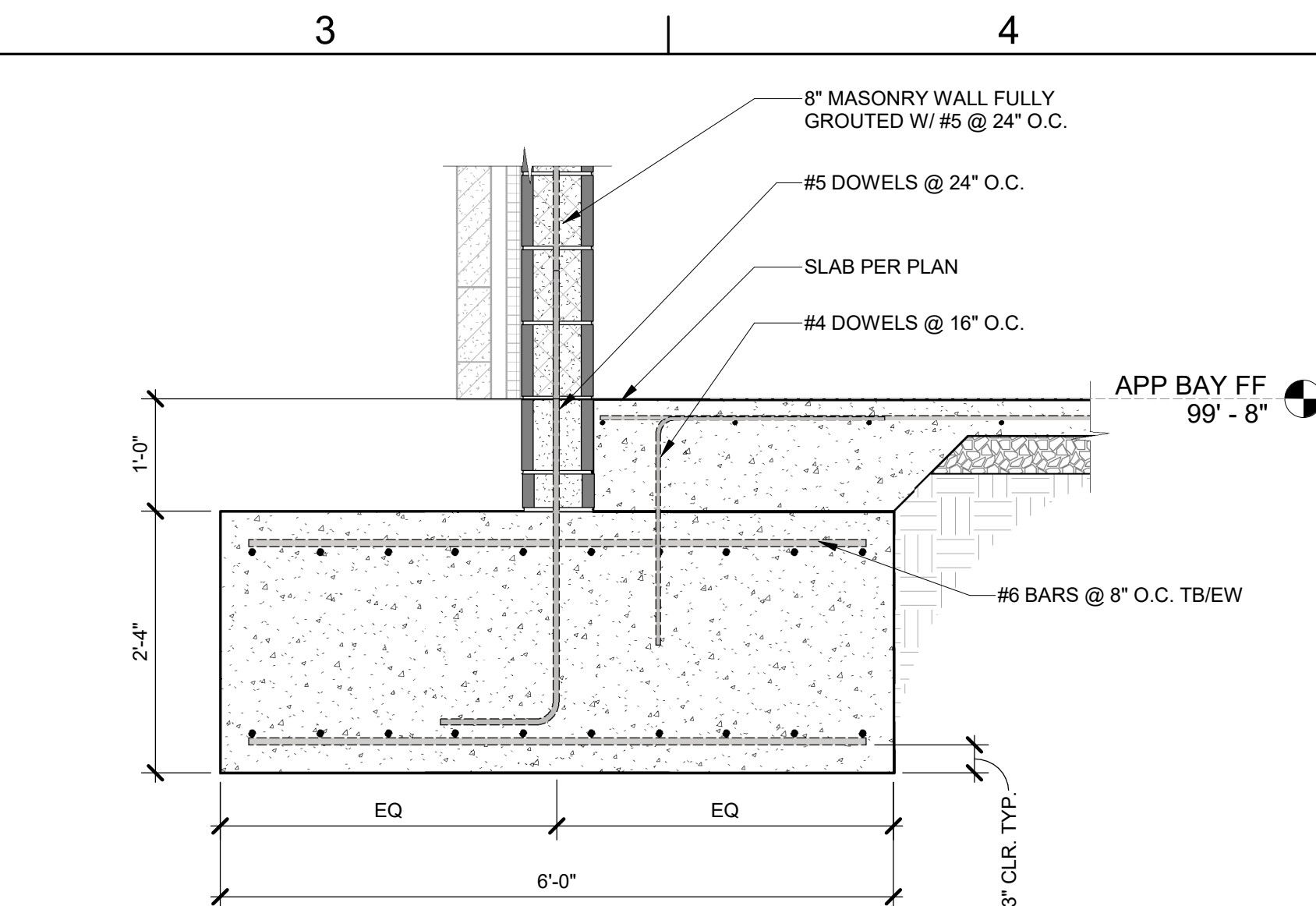
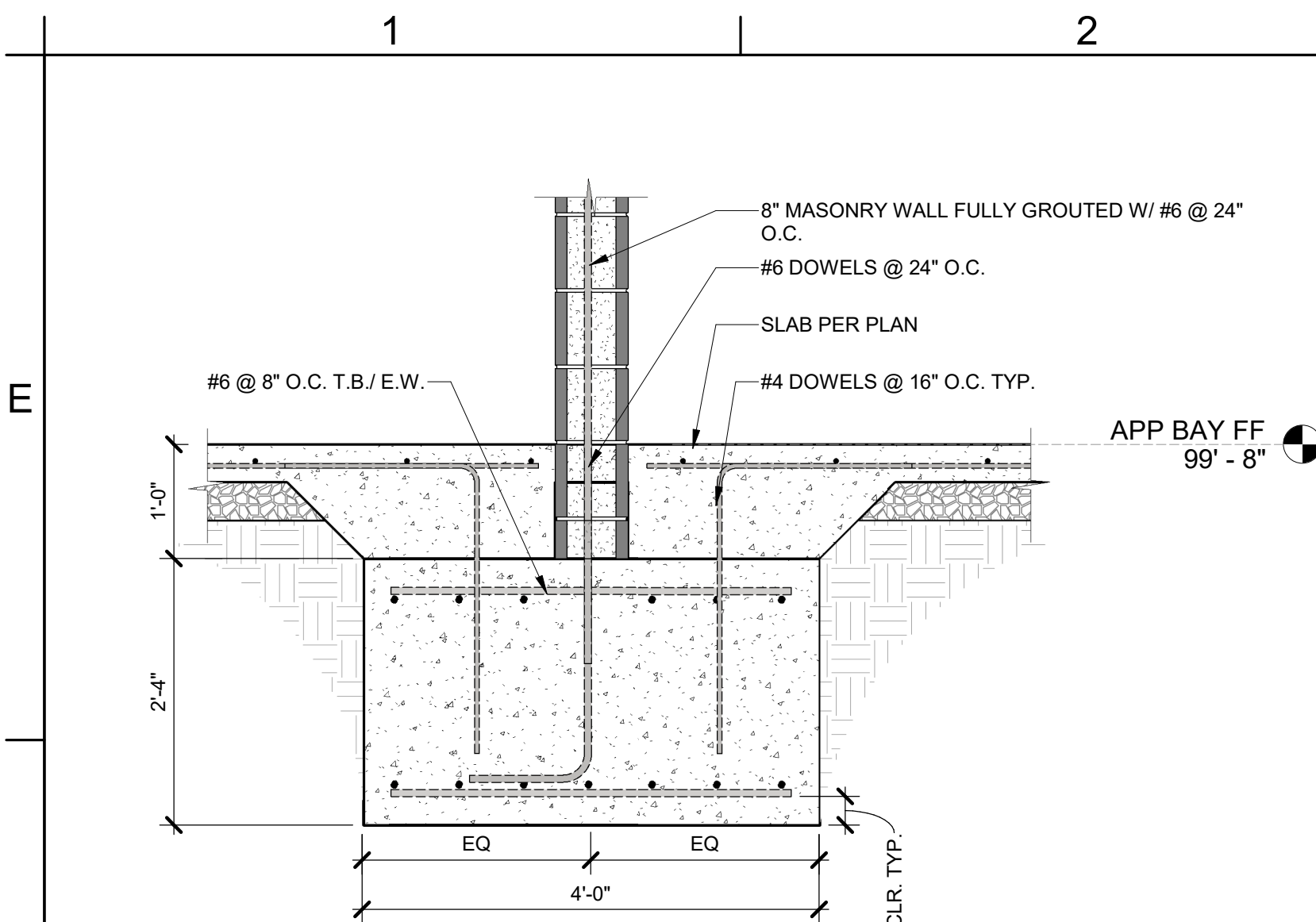
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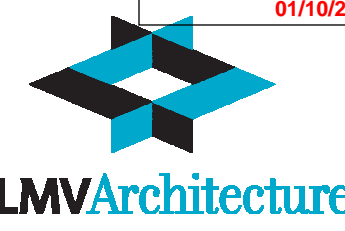
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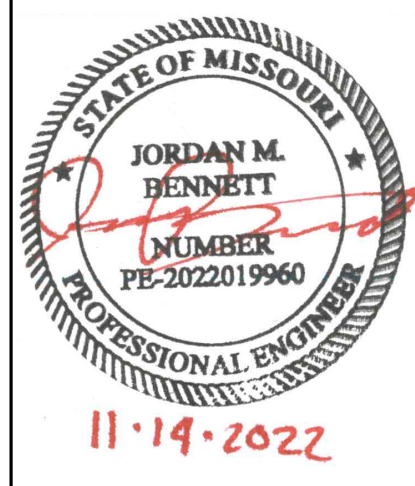
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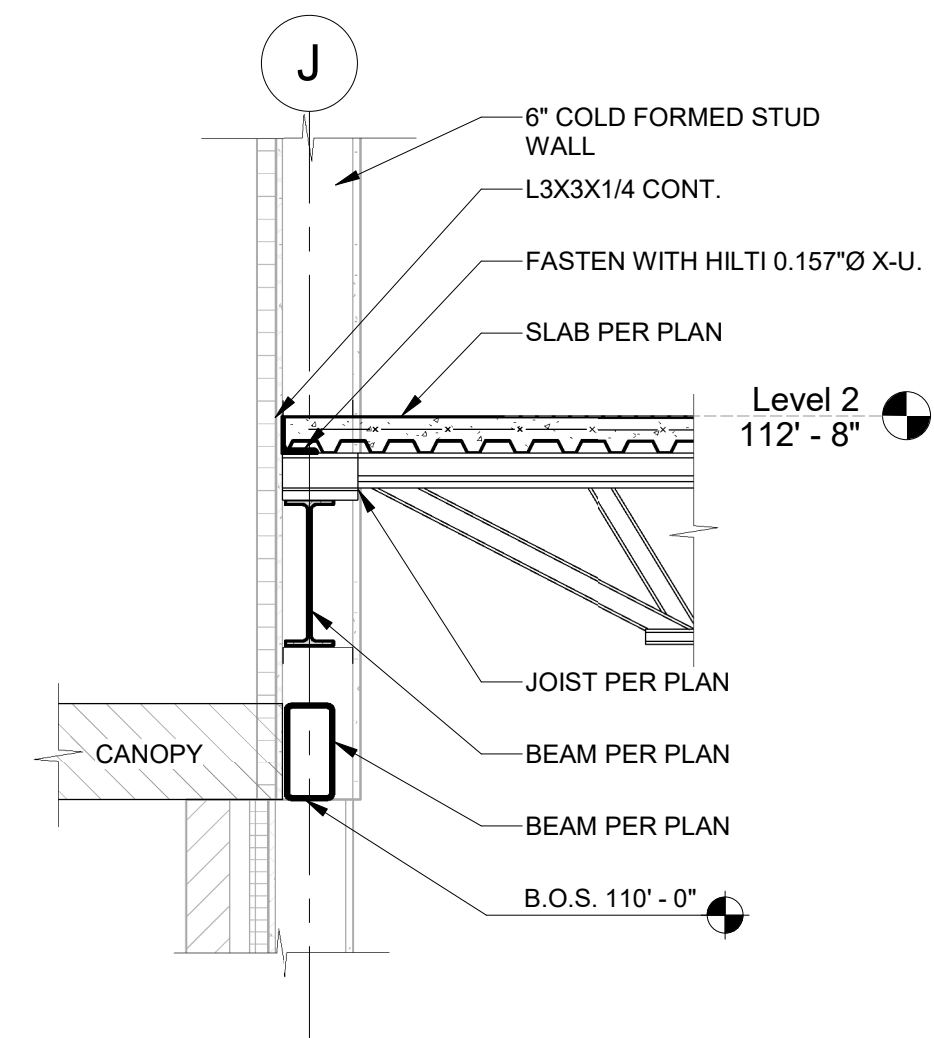
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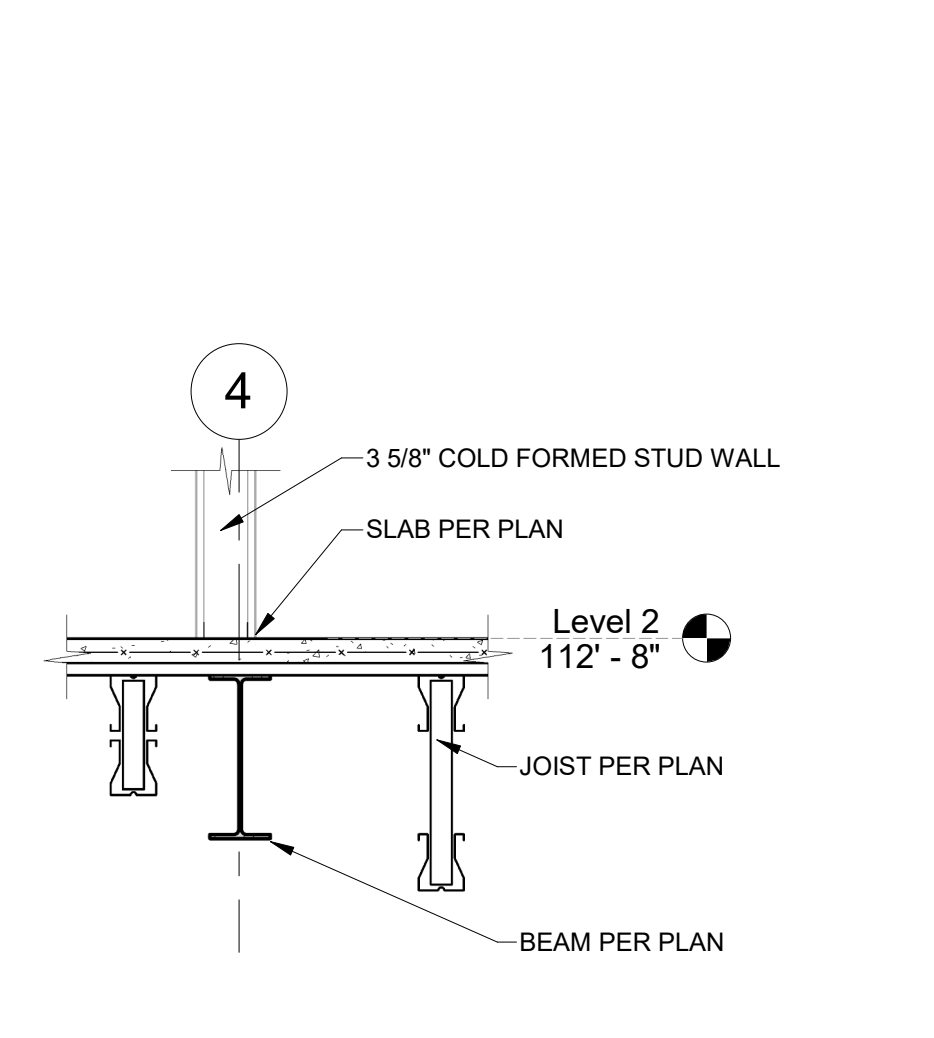
**FLOOR
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S-302

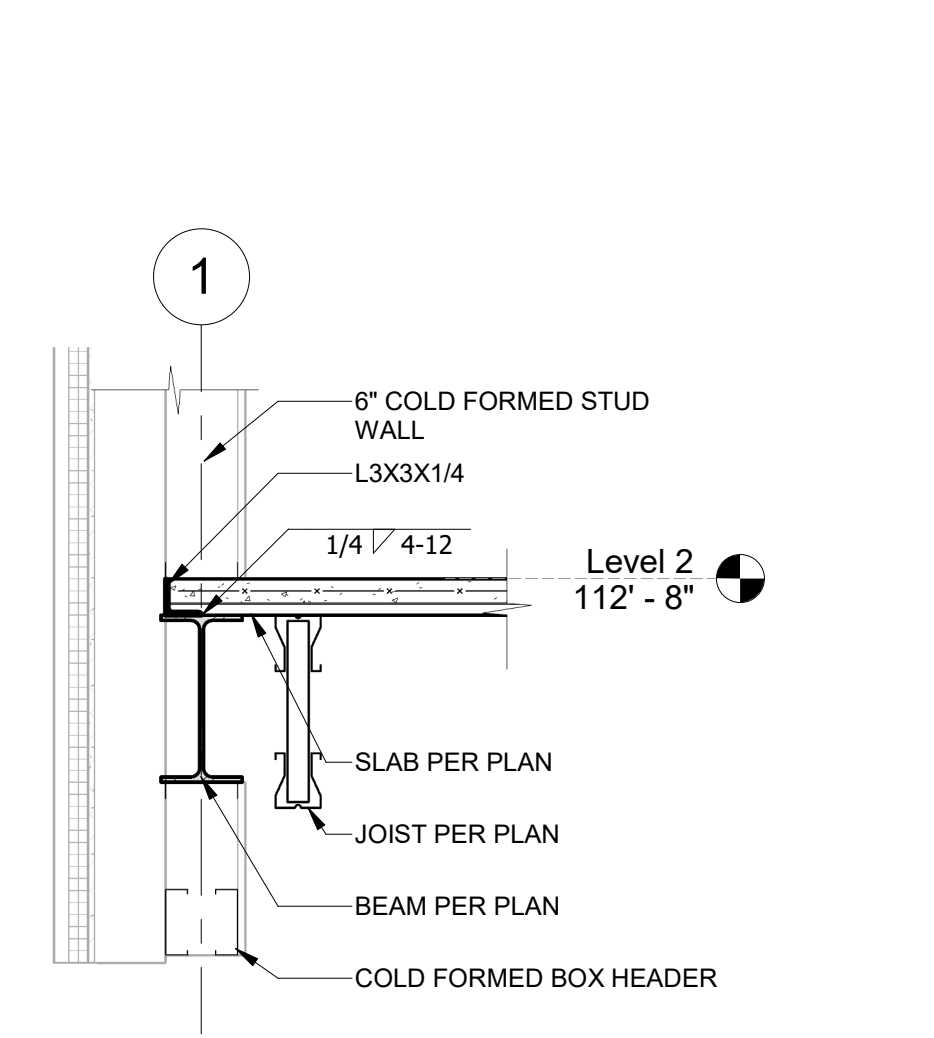
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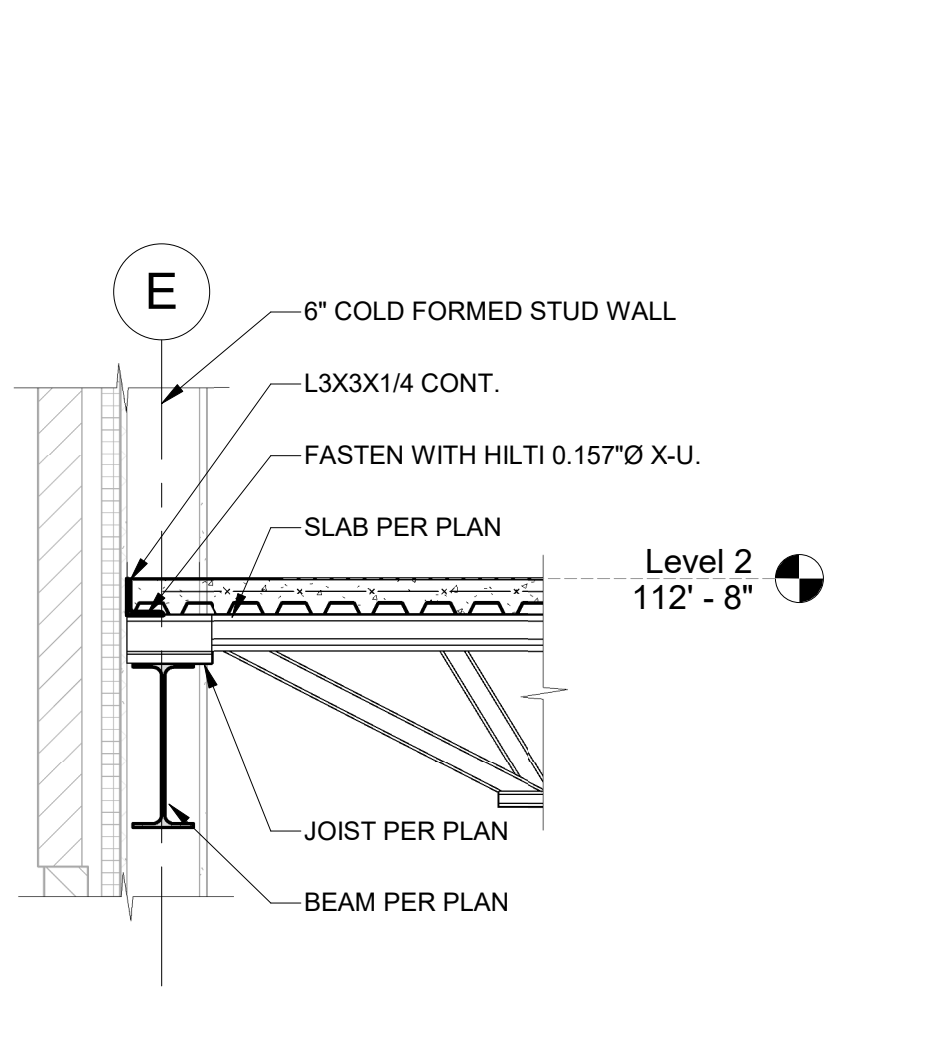
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3/4" = 1'-0"



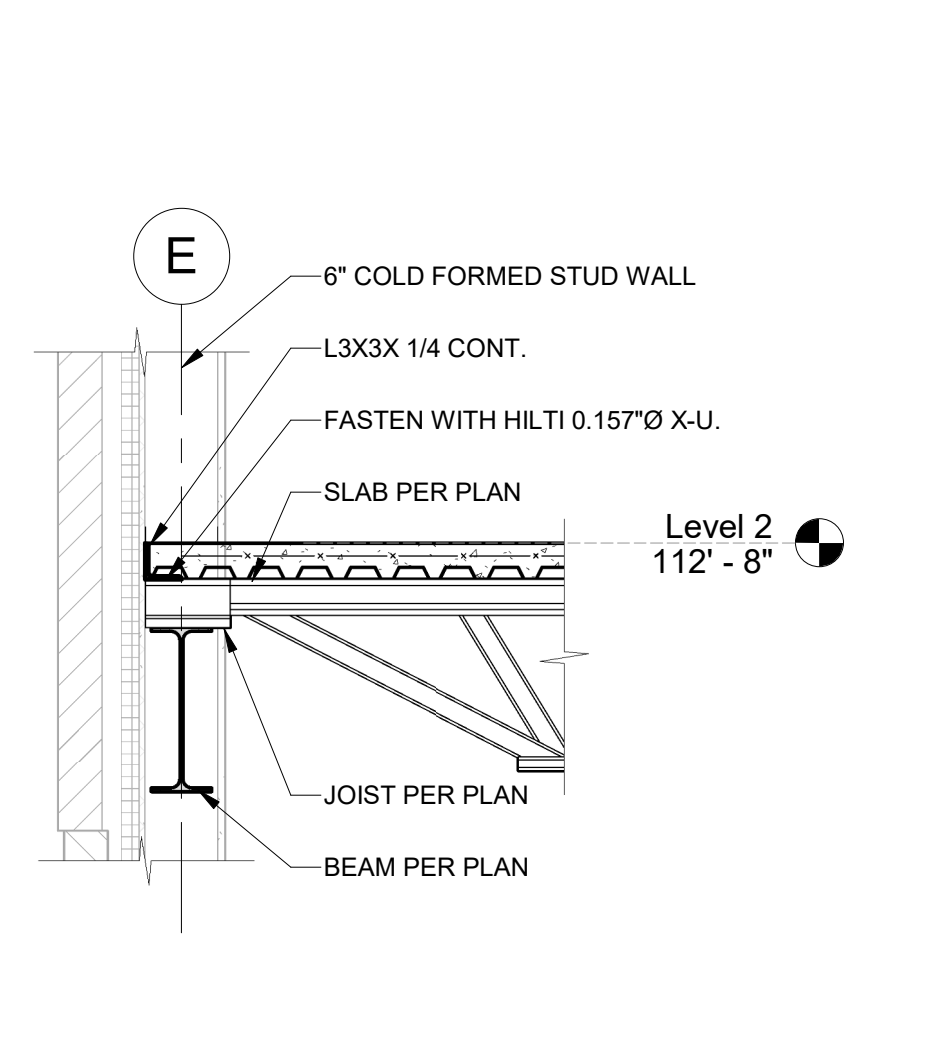
D2 2ND FLOOR FRAMING PARALLEL TO BEAM
3/4" = 1'-0"



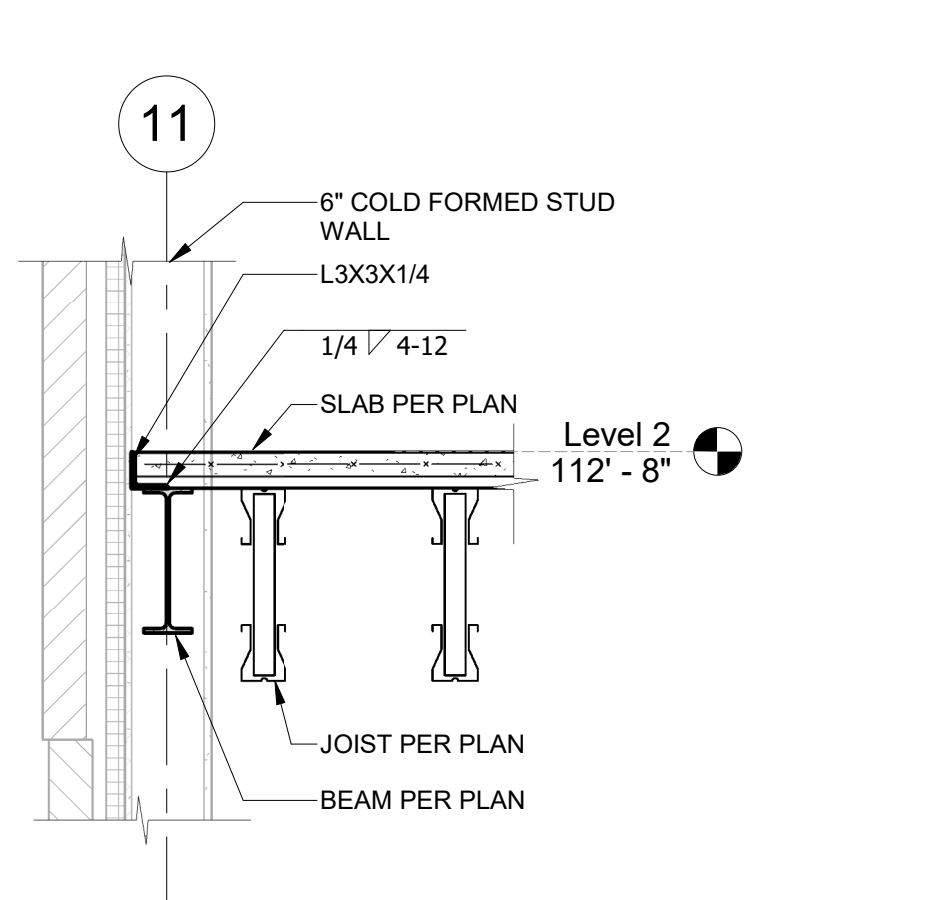
D3 2ND FLOOR WEST WALL JOIST PARALLEL
3/4" = 1'-0"



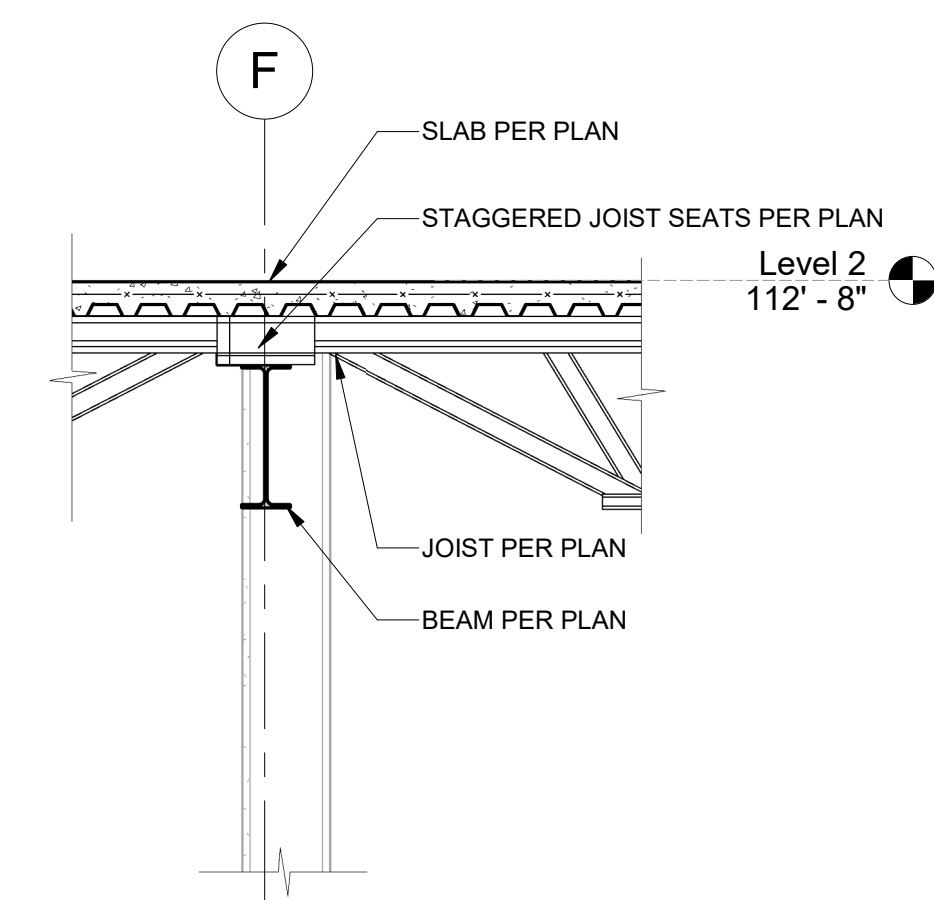
D5 2ND FLOOR JOIST PERP. TO EXTERIOR WALL AT
WINDOW
3/4" = 1'-0"



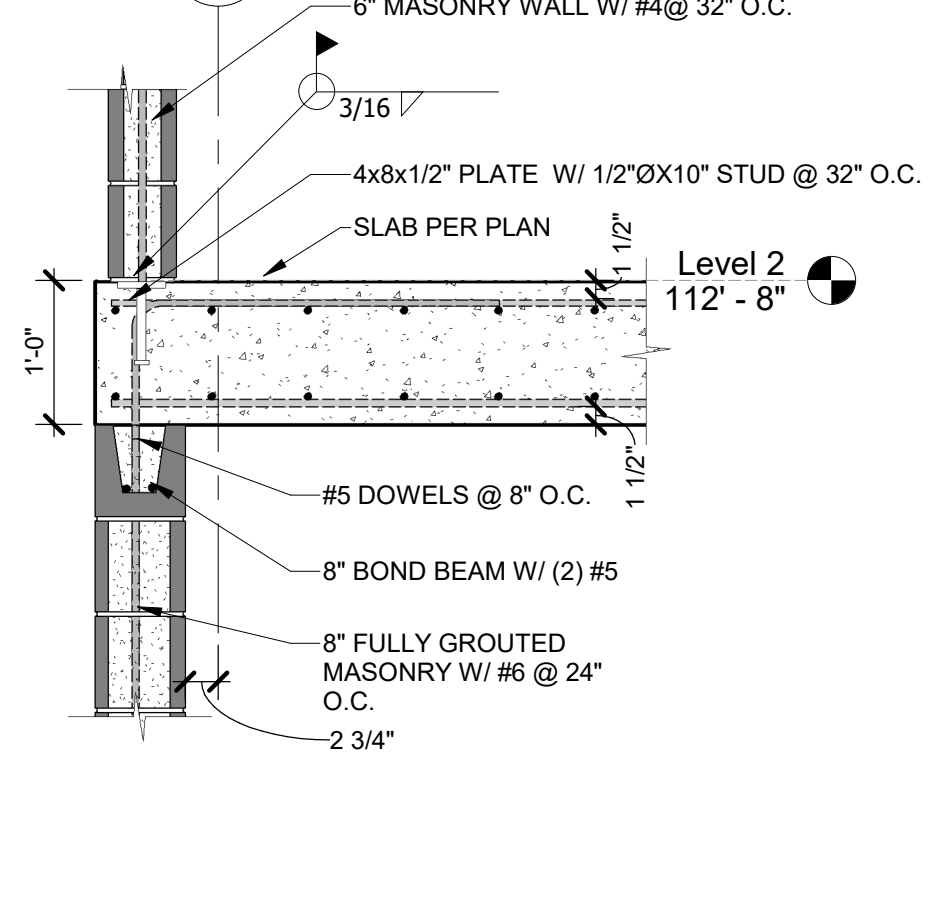
D6 2ND FLOOR JOIST PERP. TO EXTERIOR WALL
3/4" = 1'-0"



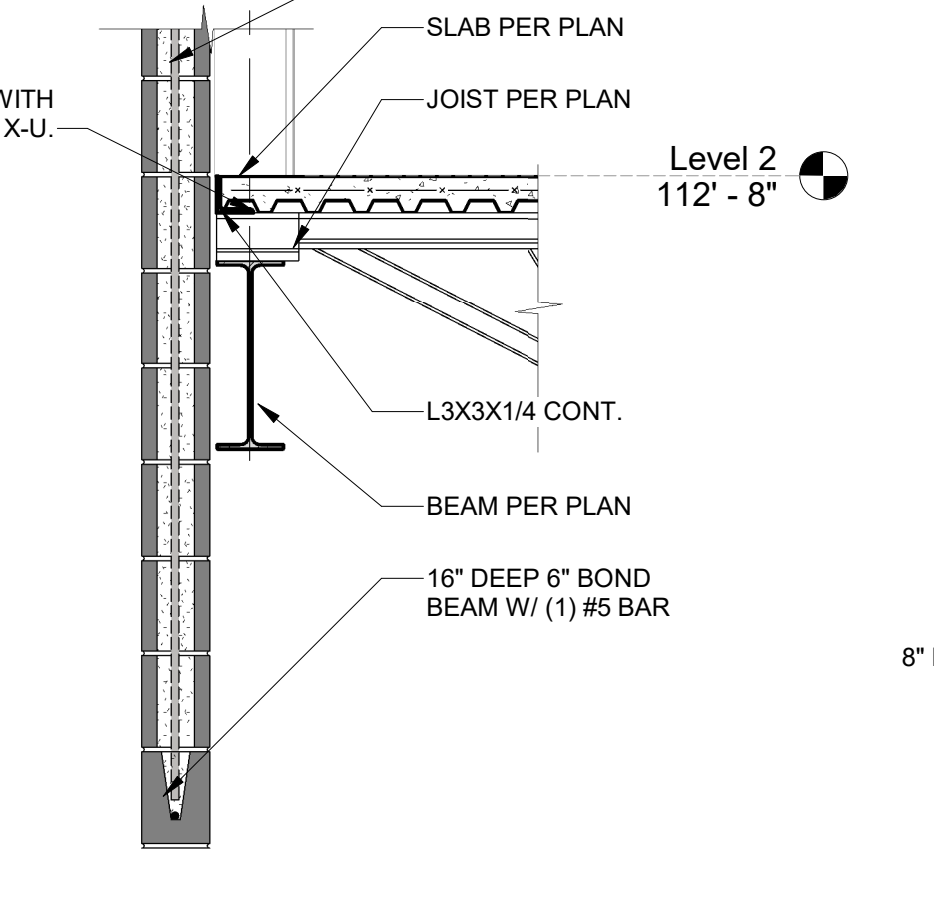
C1 2ND FLOOR EAST WALL JOIST PARALLEL
3/4" = 1'-0"



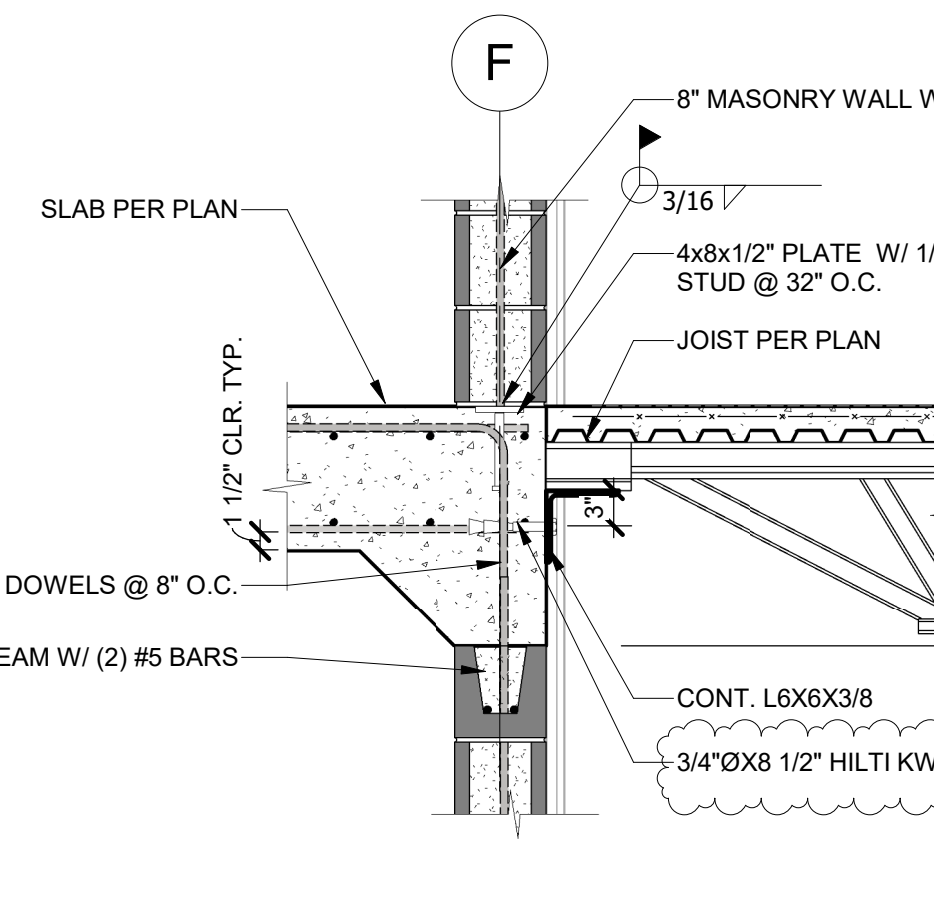
C2 2ND FLOOR JOIST PERP. TO INT. BEAM
3/4" = 1'-0"



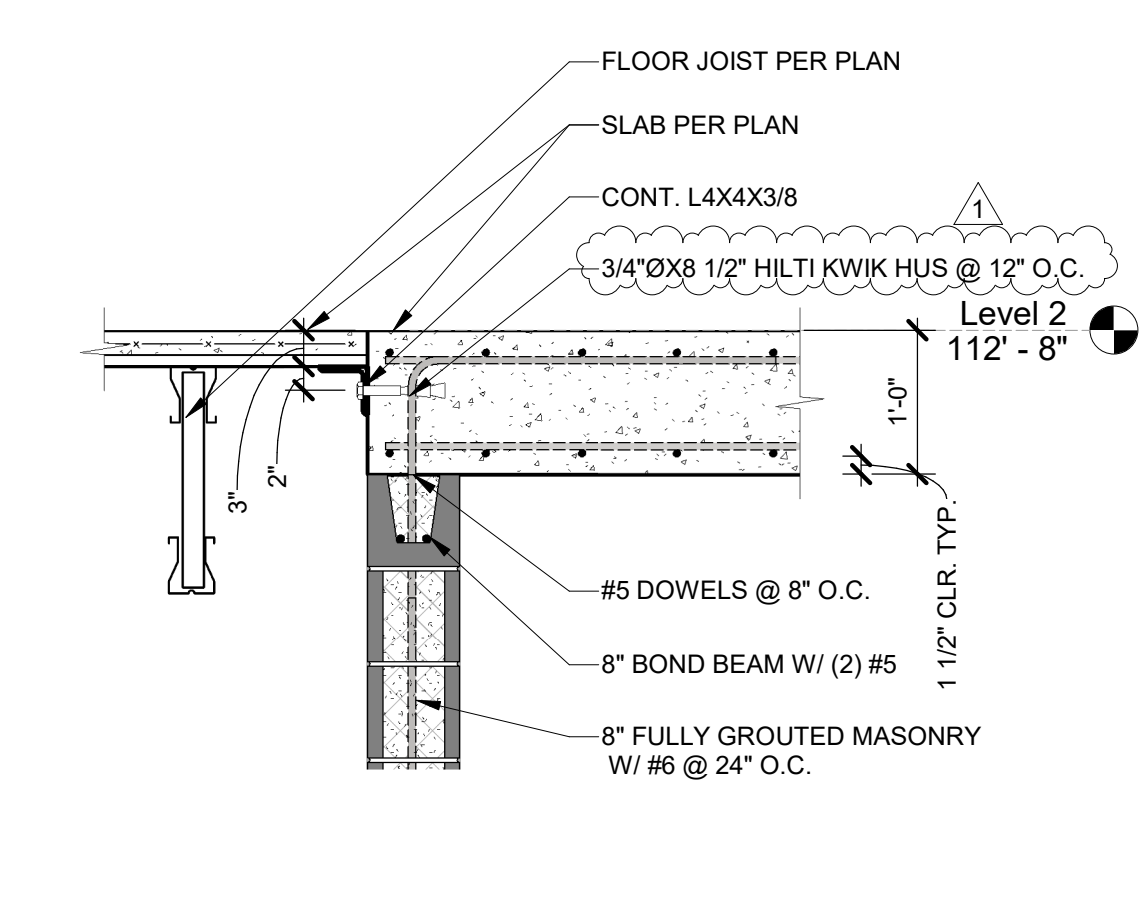
C3 2ND FLOOR STORM SHELTER ROOF AT APP BAY
3/4" = 1'-0"



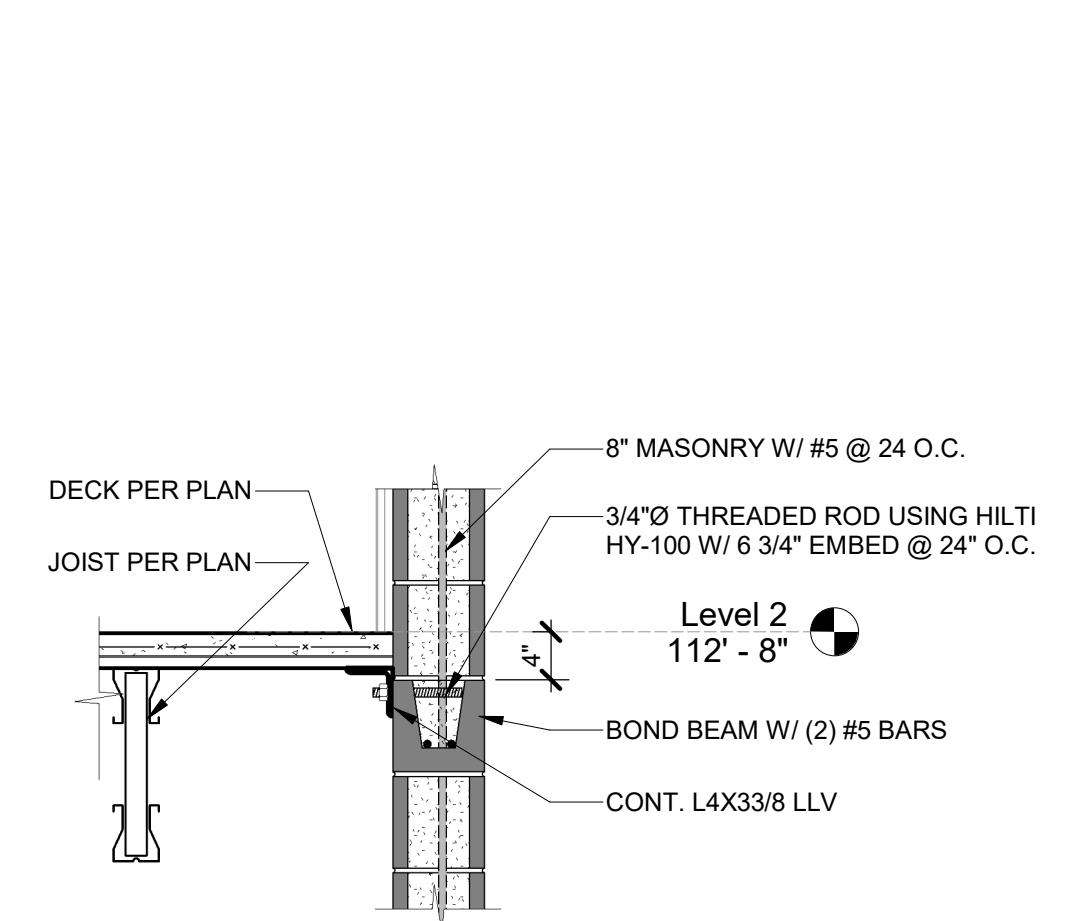
C5 2ND FLOOR EDGE CONDITION
3/4" = 1'-0"



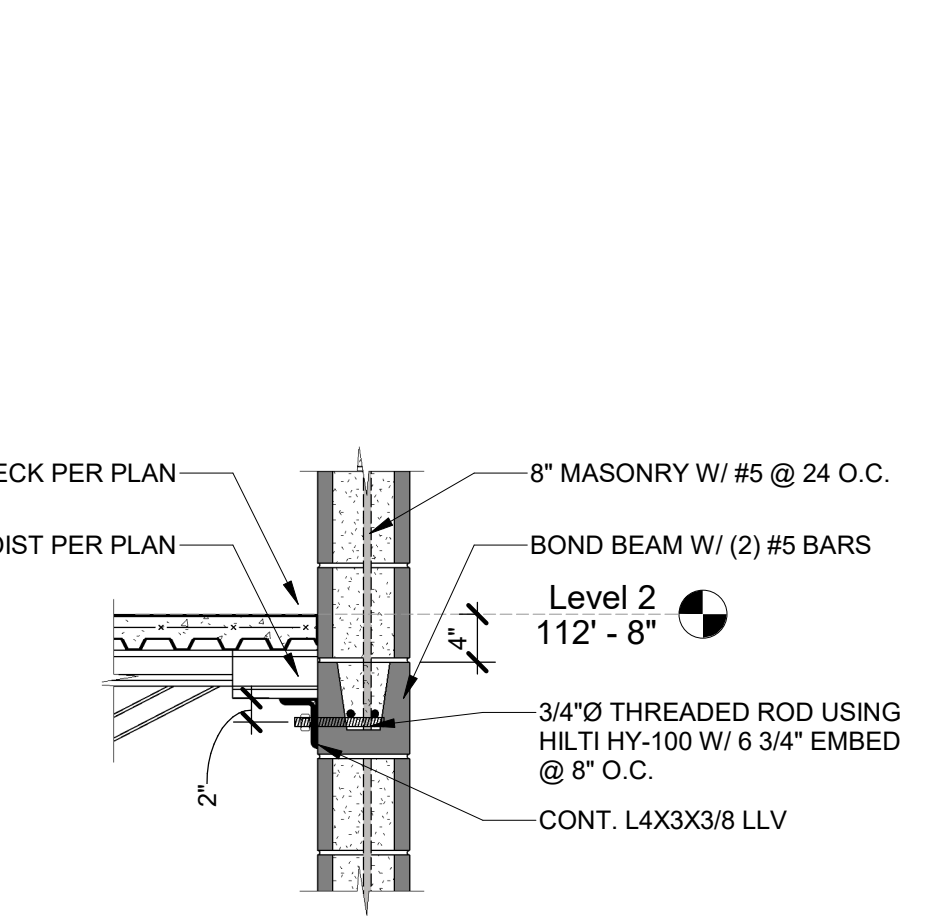
C6 2ND FLOOR JOIST PERP STORM SHELTER LID INT.
3/4" = 1'-0"



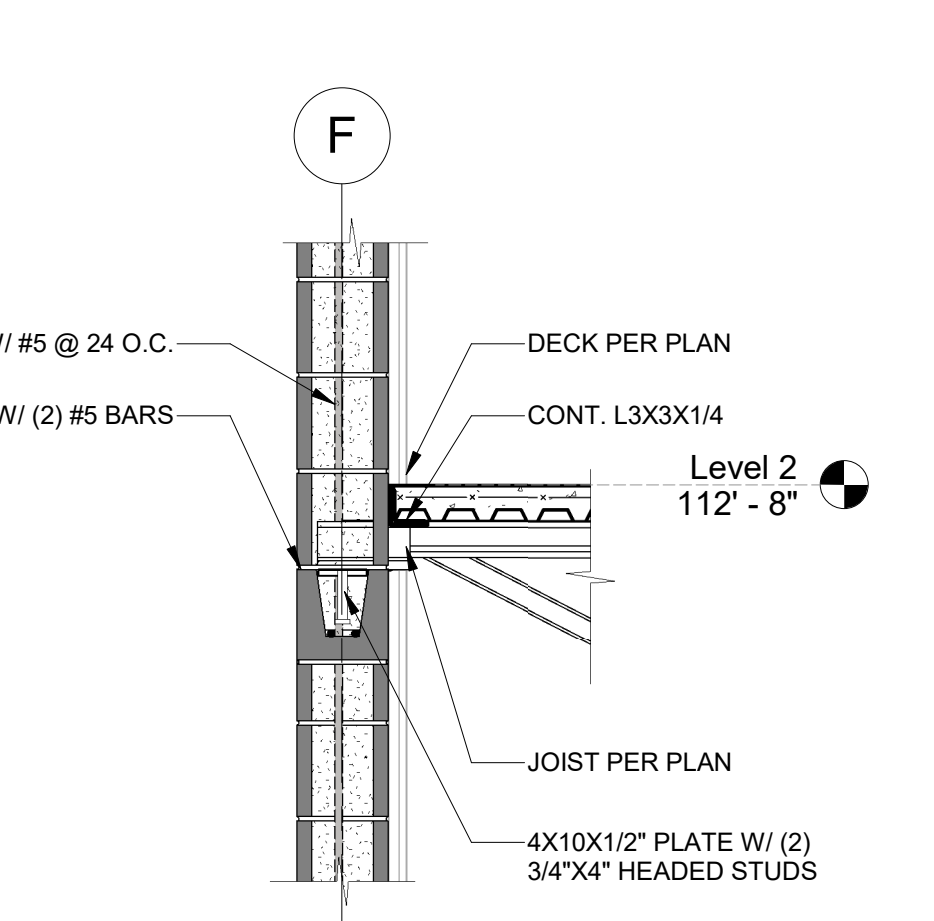
A1 2ND FLOOR JOIST PARALLEL TO STORM SHELTER
3/4" = 1'-0"



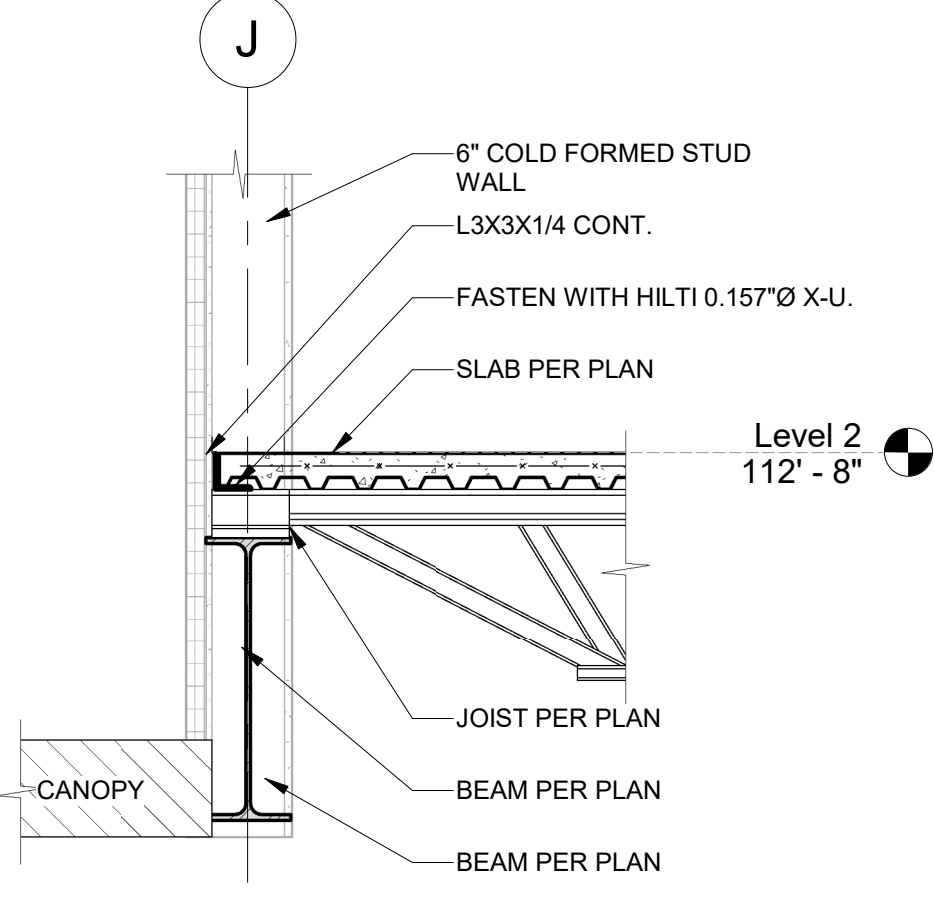
A2 SECTION
3/4" = 1'-0"



A3 SECTION
3/4" = 1'-0"



A5 SECTION
3/4" = 1'-0"



A6 SECTION
3/4" = 1'-0"

FILE PATH: BM 360 //18225R21001_LeesSummitFireStation_#4 and #5LSMO_FIRE STATIONS_STRUCT.rvt

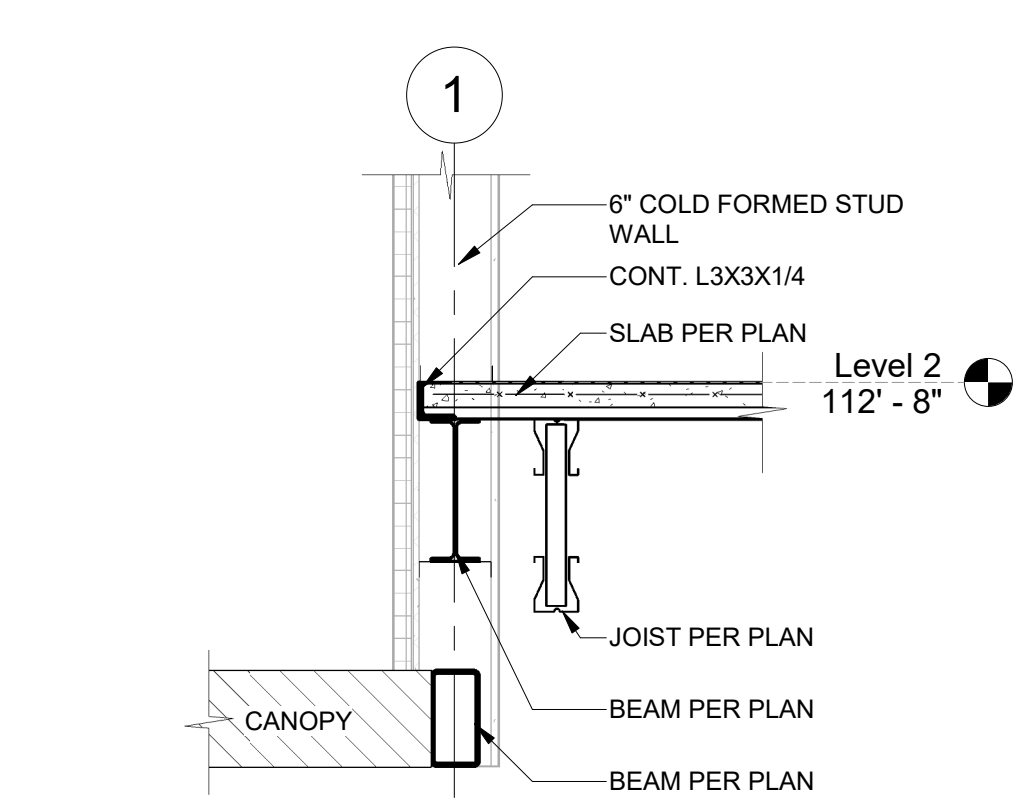
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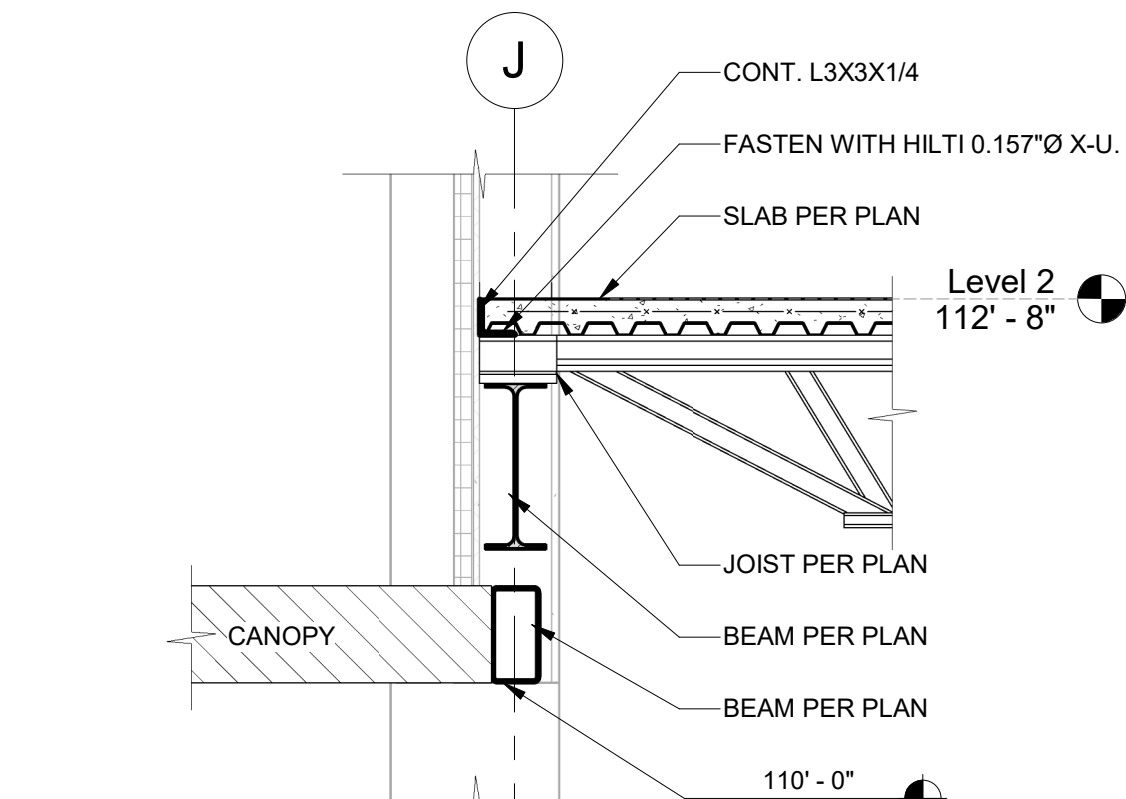
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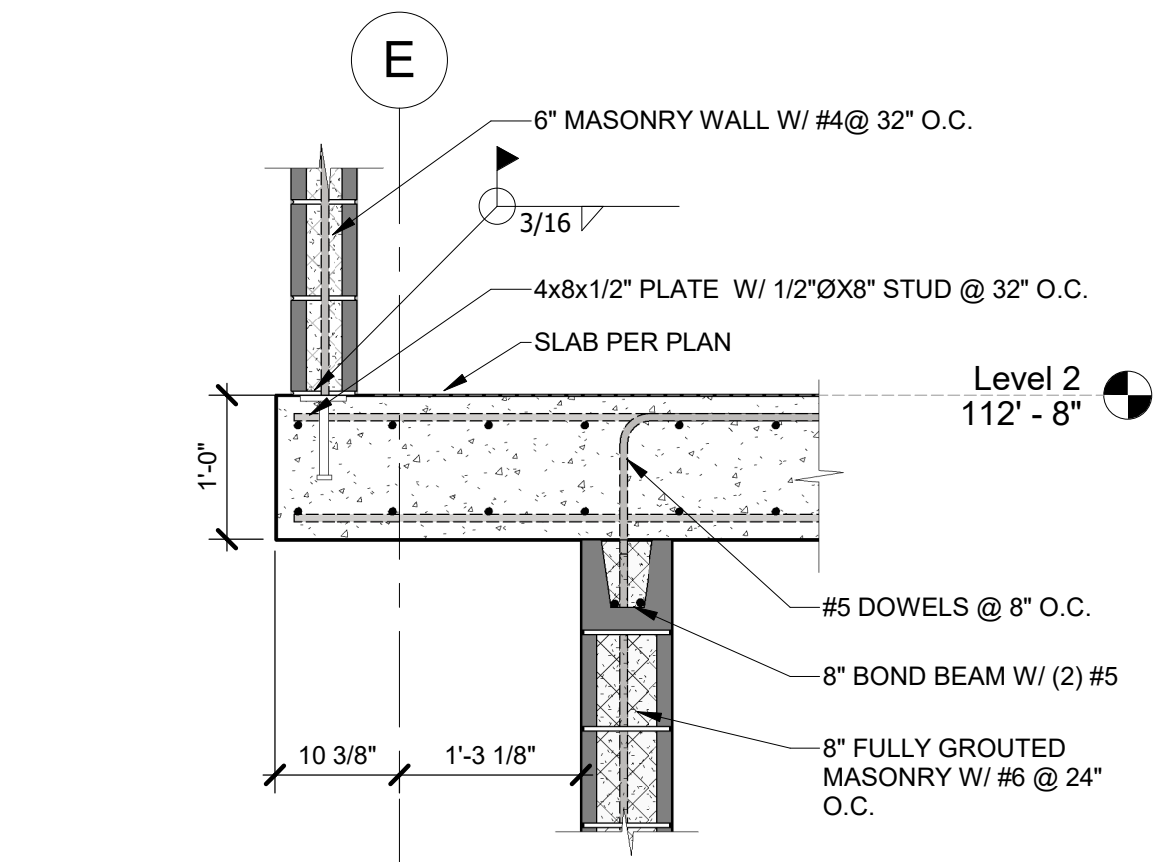
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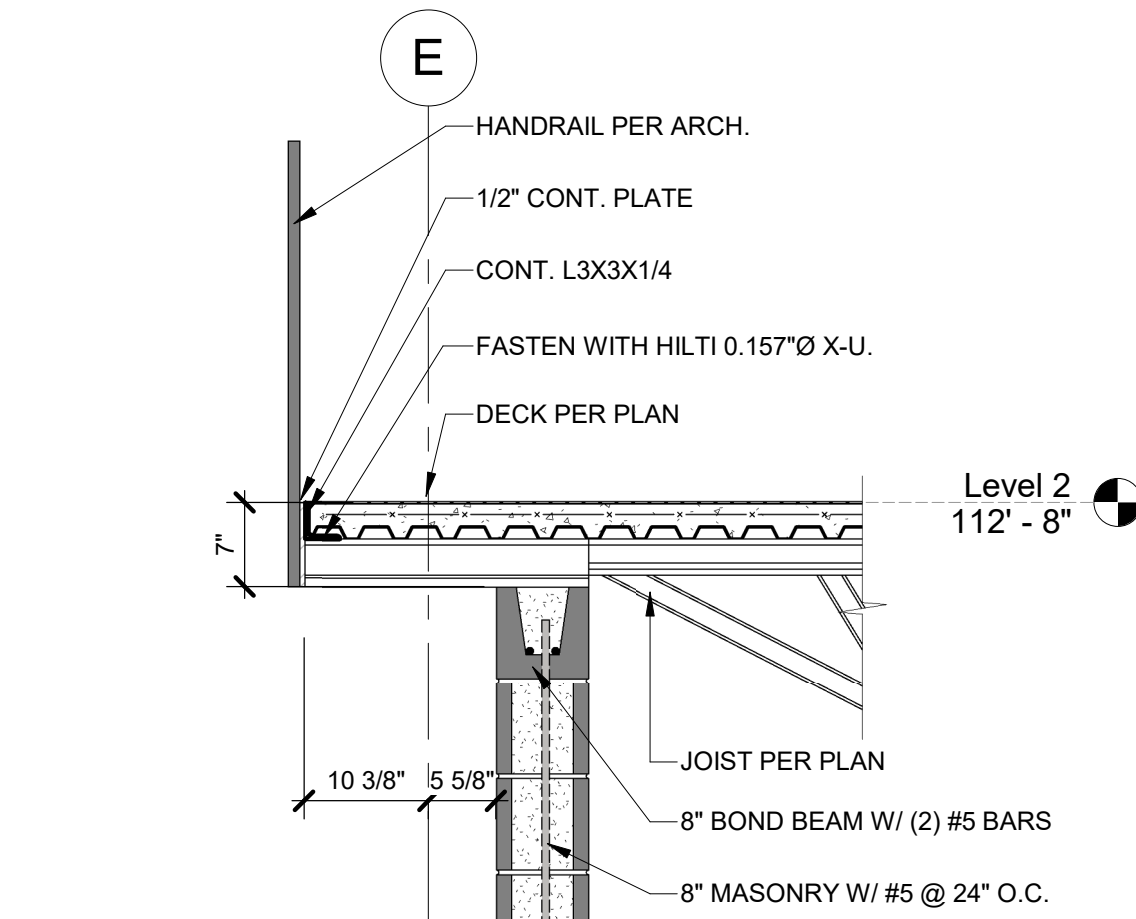
A1 SECTION
3/4" = 1'-0"



A2 SECTION
3/4" = 1'-0"



A4 SECTION
3/4" = 1'-0"



A5 SECTION
3/4" = 1'-0"



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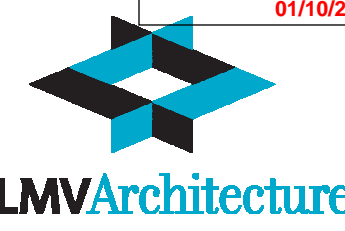


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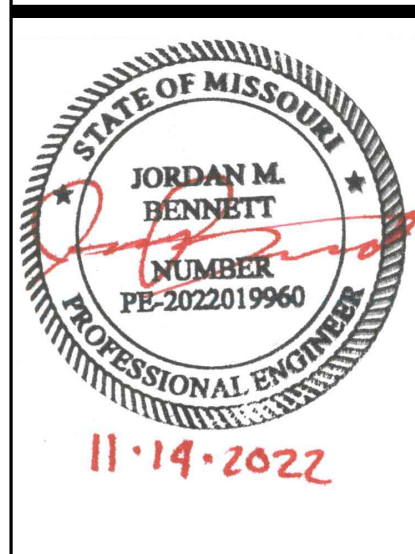
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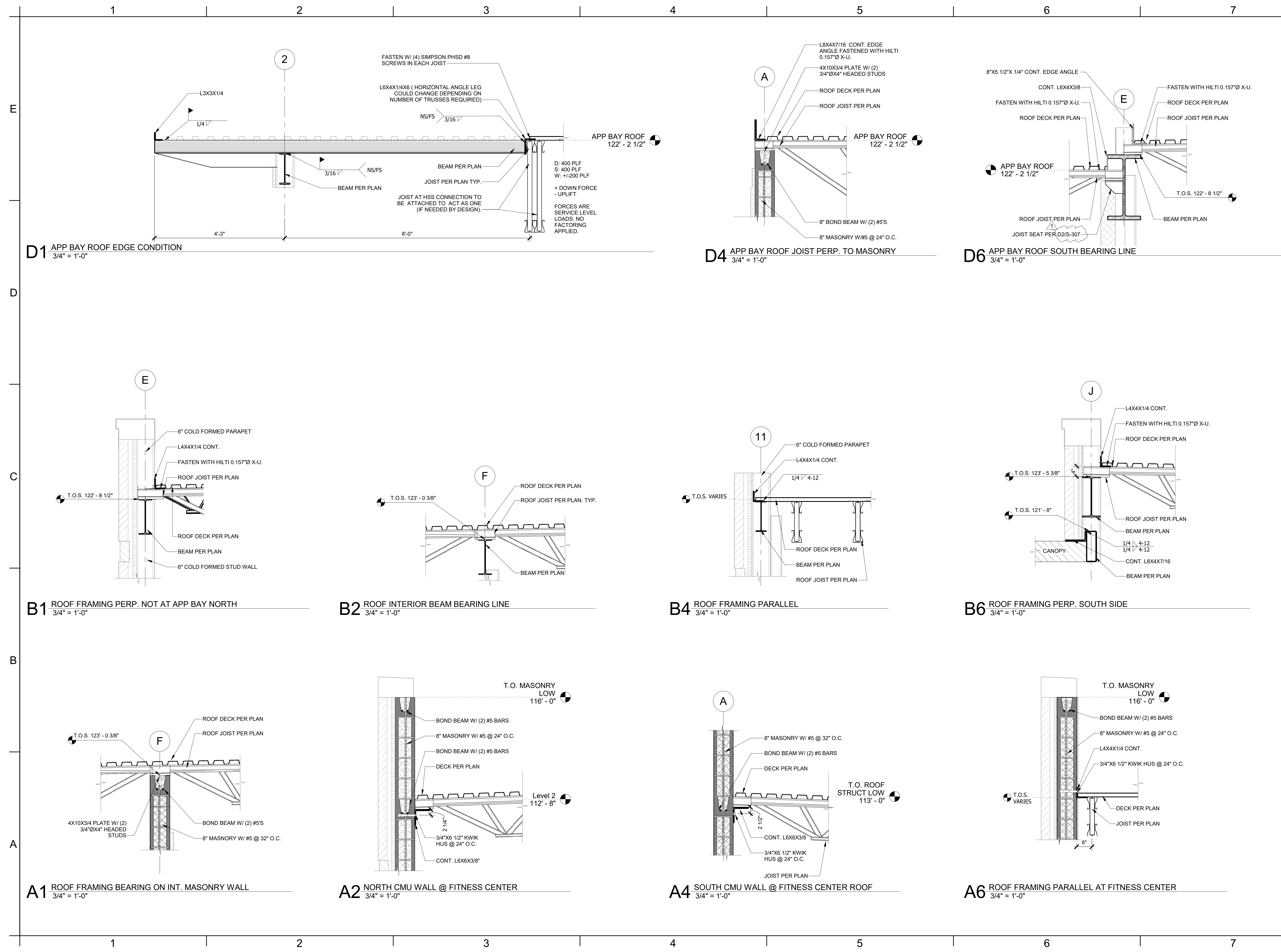
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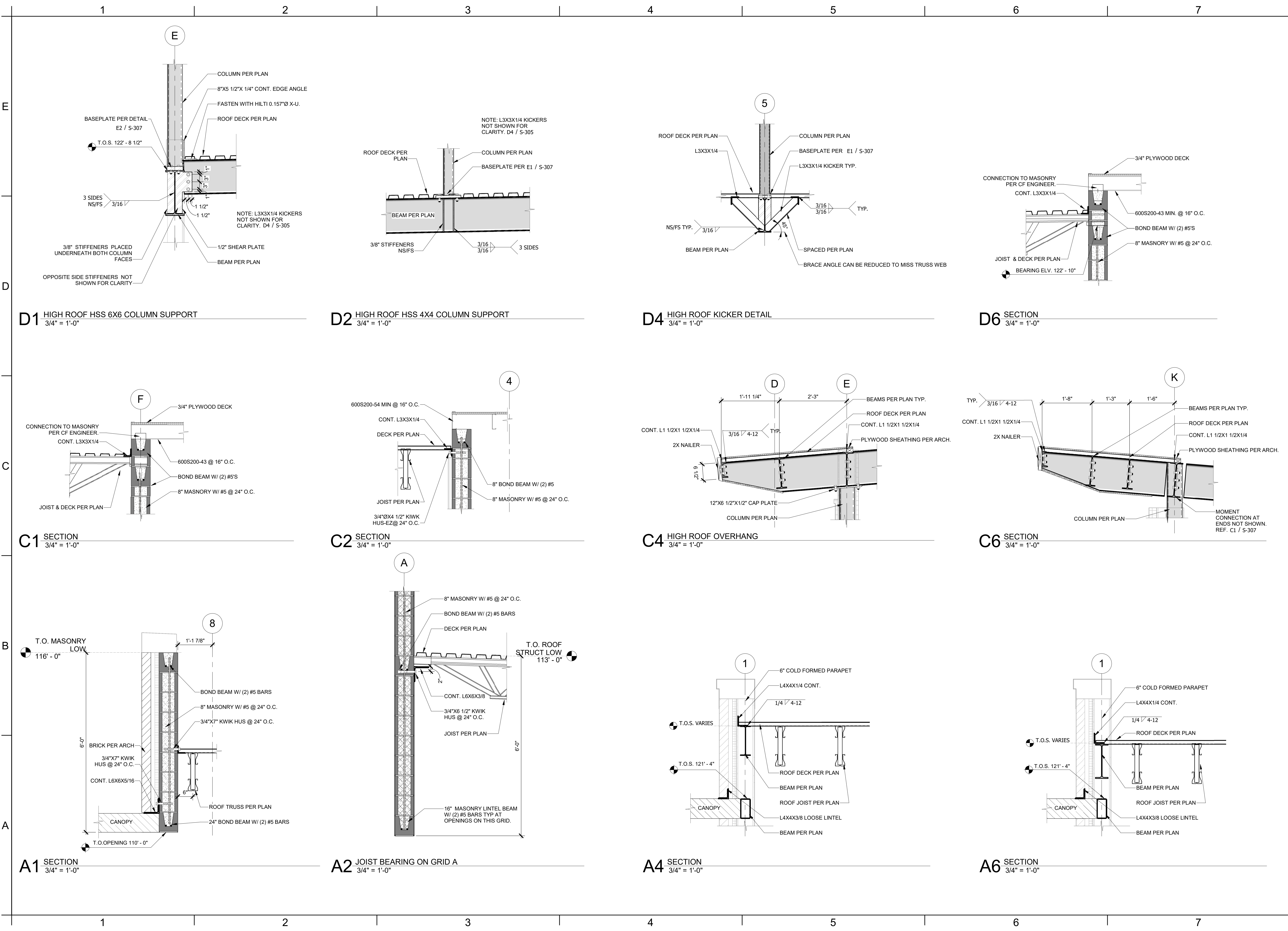
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Lee's Summit, Missouri

01/10/2023

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JORDAN M. BENNETT

PROFESSIONAL ENGINEER

NUMBER PE-2022019960

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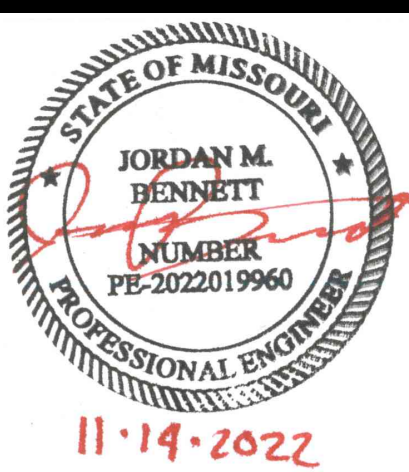
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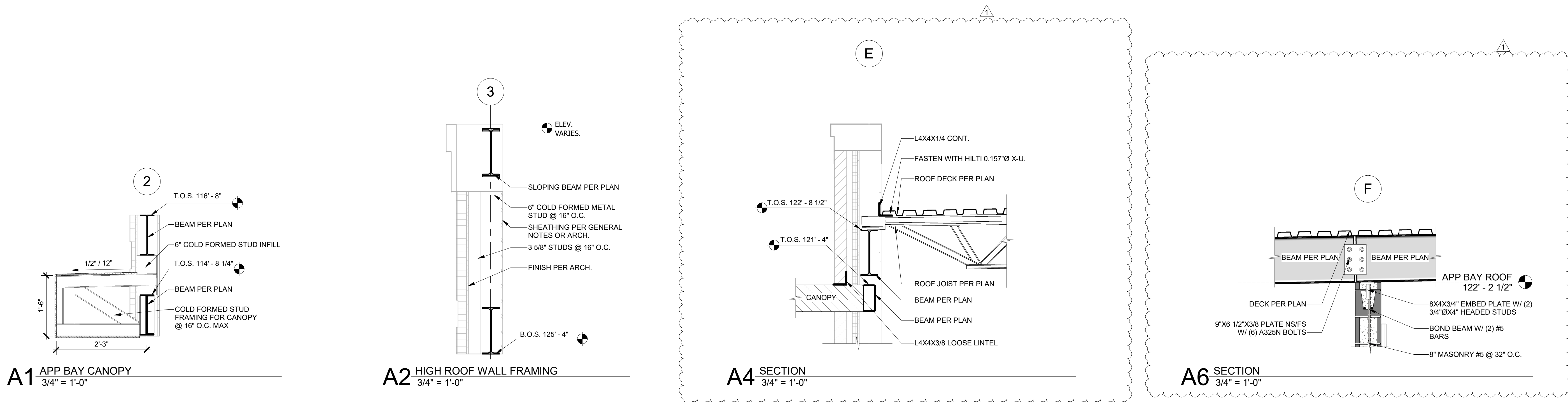
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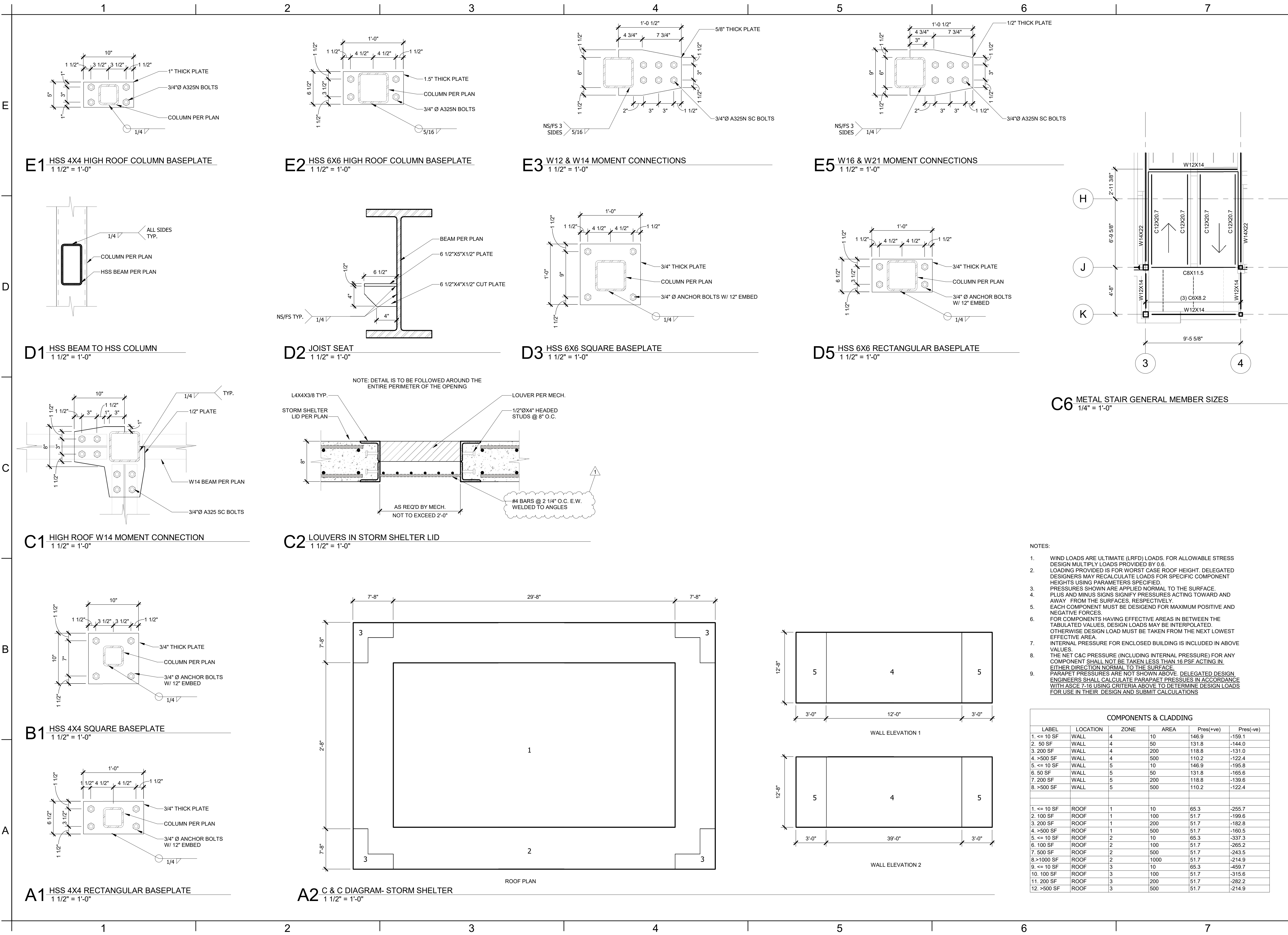
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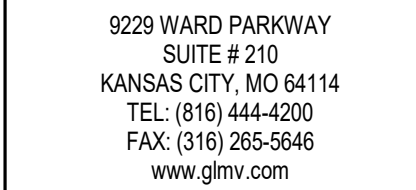
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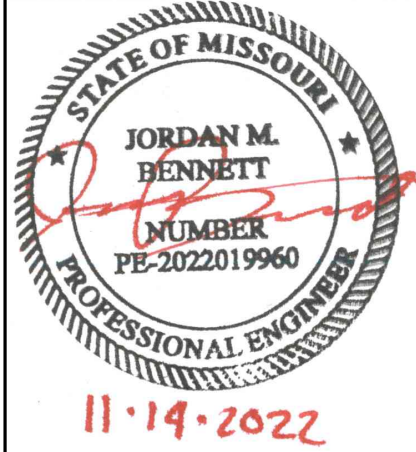
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FIRE STATION #4

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:		
#	Description	Date



PROJECT NO:	18225R2100
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DATE: 11.16.202

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CHECKED BY:	JM

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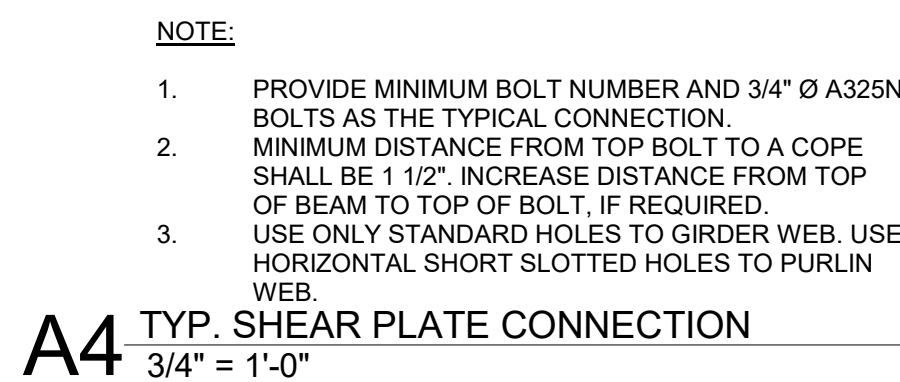
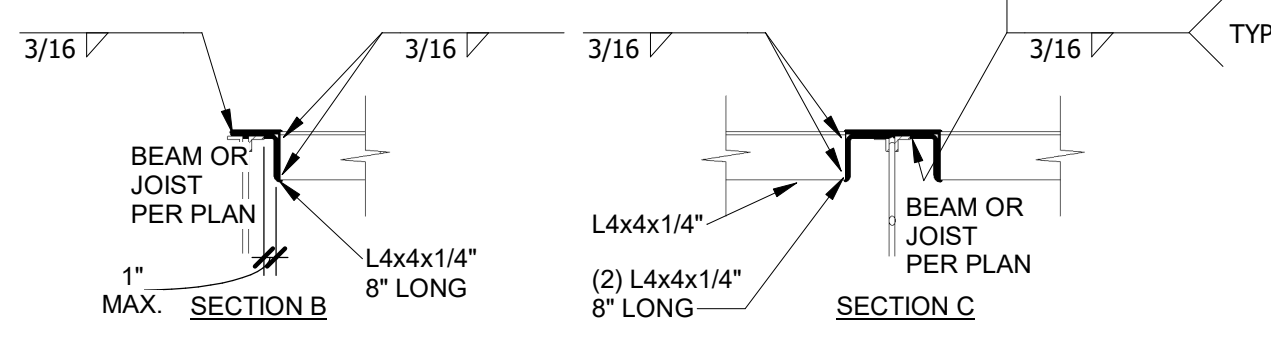
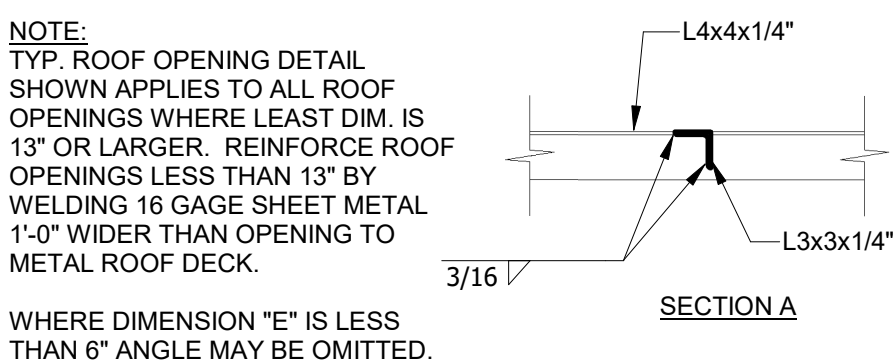
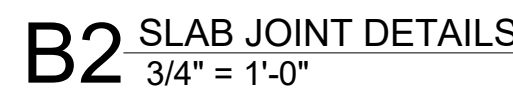
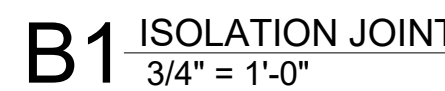
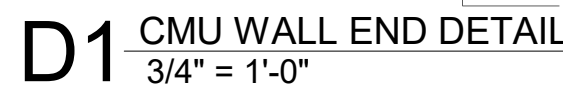
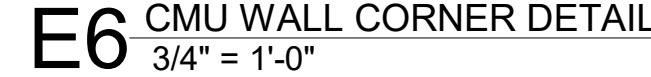
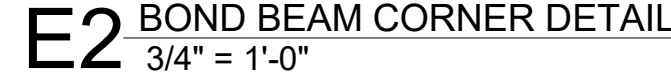
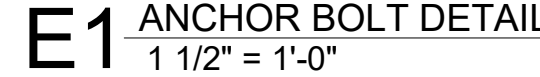
TYPICAL DETAILS

9.500

S-500

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CONNECTION SCHEDULE	
NOMINAL BEAM DEPTH "n"	"N" ROWS OF BOLTS
W8 TO W10	2
W12 TO W14	3
W16	4
W18	5
W21-W24	6
W27	7
W30	8
W33	9
W36	10
W40	11
W44	12

FILE PATH: BM 360 // 18225R21001_LeesSummitFireStation_#4 and #5.LSMO_FIRE STATIONS_STRUCT.rvt



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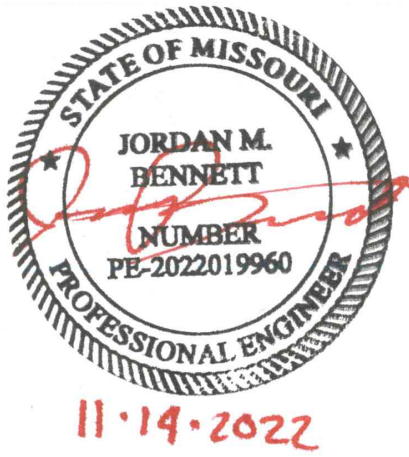
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CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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PROJECT NO: 18225R21001

DATE: 11.16.2022

DRAWN BY: JMB

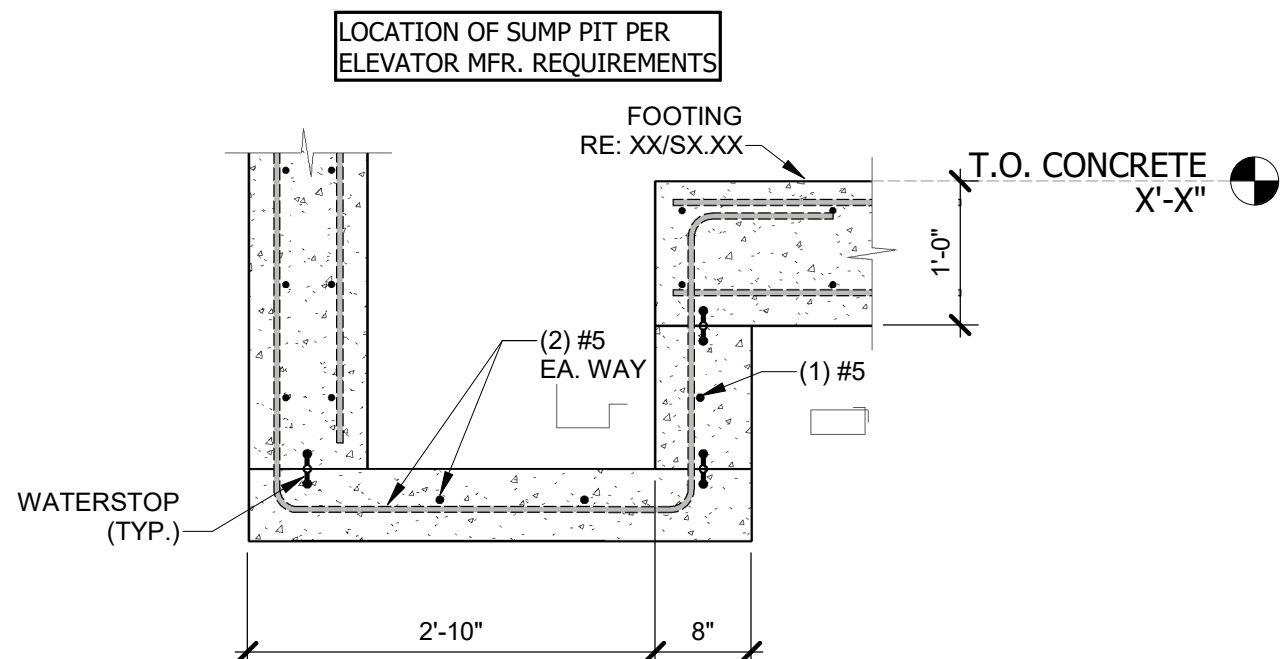
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TYPICAL DETAILS

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A1 ELEV. SUMP PIT SECTION
3/4" = 1'-0"

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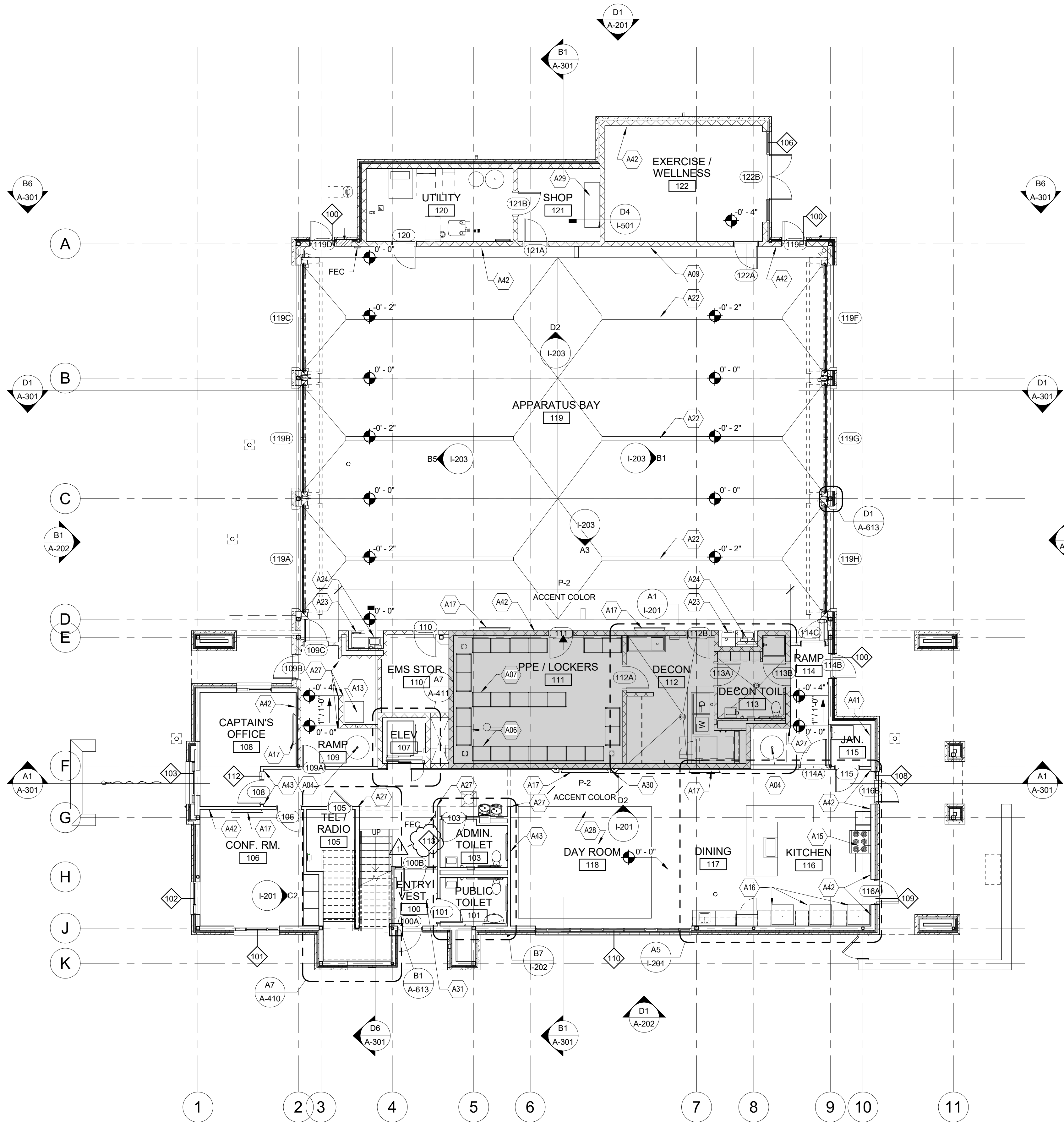
E

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C

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A



A3 FIRST FLOOR PLAN
1/8" = 1'-0"
0 4' 8' 16'

ARCH NOTES

- THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE WITH THE OWNER.
- THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY ADJACENT AREAS OCCURRING DURING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS TRASH AND OTHER MISCELLANEOUS MATERIALS FROM THE SITE DAILY.
- MAINTAIN EXIT PATHS FOR THE DURATION OF THE CONSTRUCTION.
- CONTRACTOR SHALL NOT REPRODUCE ANY PORTION OF A CONTRACT DRAWING FOR USE IN ANY PORTION OF A SUBMITTAL.
- ALL DIMENSIONS ARE FROM THE FACE OF STUD FRAMING, FACE OF MASONRY, FACE OF CONCRETE, OR CENTER LINE OF STRUCTURAL STEEL (U.N.O.).
- ALL DOORS ARE LOCATED 8 INCHES FROM THE ADJACENT PERPENDICULAR STUD WALL FRAMING AND 8 INCHES FROM THE ADJACENT PERPENDICULAR CMU WALL FRAMING TO THE HINGE SIDE OF THE DOOR OPENING (U.N.O.).
- COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- ALL A.D.A. ACCESSIBLE WATER CLOSETS MUST BE LOCATED 18 INCHES MINIMUM FROM THE FINISHED FACE OF THE NEAREST ADJACENT WALL TO THE CENTER LINE OF THE FIXTURE (U.N.O.).
- PROVIDE CONTROL JOINTS ON CONTINUOUS GYPSUM BOARD SURFACES IN EXCESS OF 30'-0", AT A MAXIMUM INCREMENT OF 30'-0" ON CENTER (U.N.O.).
- PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION IDENTIFICATION).
- REFER TO STRUCTURAL NOTES FOR ALL CAST-IN-PLACE CONCRETE AND MASONRY CONTROL JOINTS.

FLOOR PLAN KEYNOTES

KEY	DESCRIPTION
A01	ROOFTOP ACCESS LADDER AND ACCESS HATCH
A04	SLIDING POLE UNIT (1 HR RATED)
A06	30"-WIDE, WALL-HUNG "GEAR GRID" LOCKERS
A07	30"-WIDE, FREE-STANDING "GEAR GRID" LOCKERS
A09	GEAR GRID WALL-MOUNT HOSE DRYER, OFCI
A11	HEAVY-DUTY RESIDENTIAL WASHER, OFCI
A12	HEAVY-DUTY RESIDENTIAL DRYER, OFCI
A13	ICE MACHINE, CFCI
A15	6-BURNER RANGE W/ OVEN & RESIDENTIAL HOOD W/ INTEGRAL FIRE SUPPRESSION
A16	RESIDENTIAL REFRIGERATOR, OFOI
A17	WALL-MOUNTED TV, OFOI, BLOCKING AND TV BRACKET, CFCI
A22	TRENCH DRAIN, SEE PLUMBING
A23	BOOT WASH, SEE PLUMBING
A24	HAND WASHING SINK FOR CONTAMINANT CONTROL W/ EYEWASH ATTACHMENT, SEE PLUMBING
A26	CAR WASH SYSTEM INTEGRATED INTO THIS BAY, SEE PLUMBING
A27	VINYL CORNER GUARD AT EXTERIOR CORNER - FULL WALL HEIGHT
A28	CARPET TILE, RECESSED TO BE LEVEL W/ TOP OF POLISHED CONC FLOOR
A29	WOOD WORK BENCH
A30	GYP. BD. SURROUND TO CREATE TV NICHE
A31	RECESSED SLAB AT ENTRY FOR RECESSED W.O.M.
A41	MOP AND BROOM RACK
A42	P-2 - ACCENT COLOR
A43	P-3 - ACCENT COLOR

FLOOR PLAN NOTES

EXTEND OF STORM SHELTER, SEE G-004 FOR MORE INFORMATION



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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

#	Description	Date
1	A01 01	11/21/2022



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MO# A-2009021701

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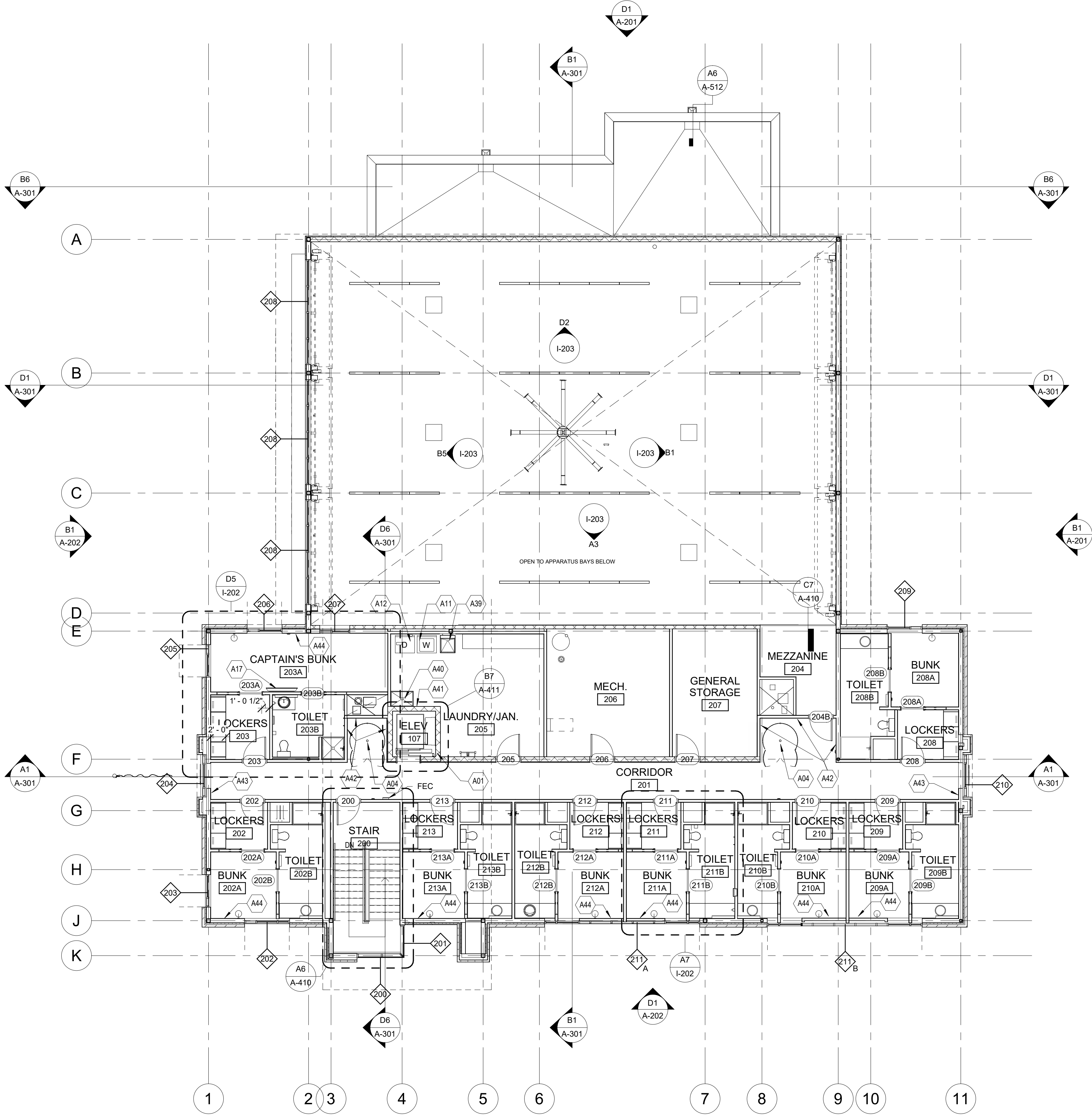
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FIRST FLOOR PLAN

A-101

FILE PATH: BM 360/18225R21001_LeeSummitFireStation_# 4 and #5/LSMO_FIRE STATIONS.rvt

E
D
C
B
A



A3 SECOND FLOOR PLAN
1/8" = 1'-0"
0 4' 8' 16'

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FLOOR PLAN KEYNOTES.

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A39	UTILITY SINK
A40	MOP SINK
A41	MOP AND BROOM RACK
A42	P-2 - ACCENT COLOR
A43	P-3 - ACCENT COLOR
A44	P-4 - ACCENT COLOR

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
01/10/2023

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Description Date

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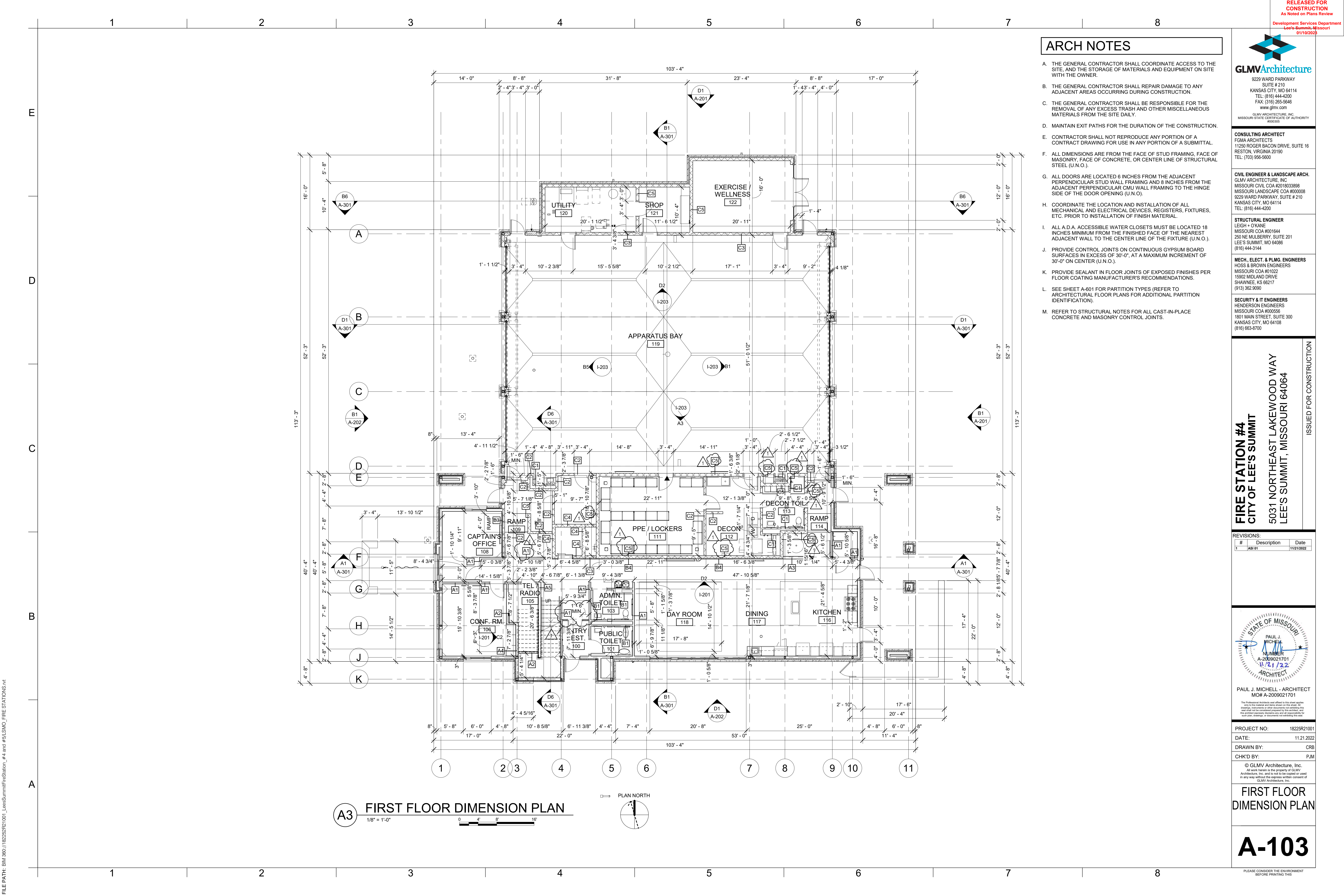
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SECOND FLOOR PLAN

A-102

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FILE PATH: BIM 360://18225R21001_LeeSummitFireStation_#4 and #5LSMO_FIRE STATIONS.rvt

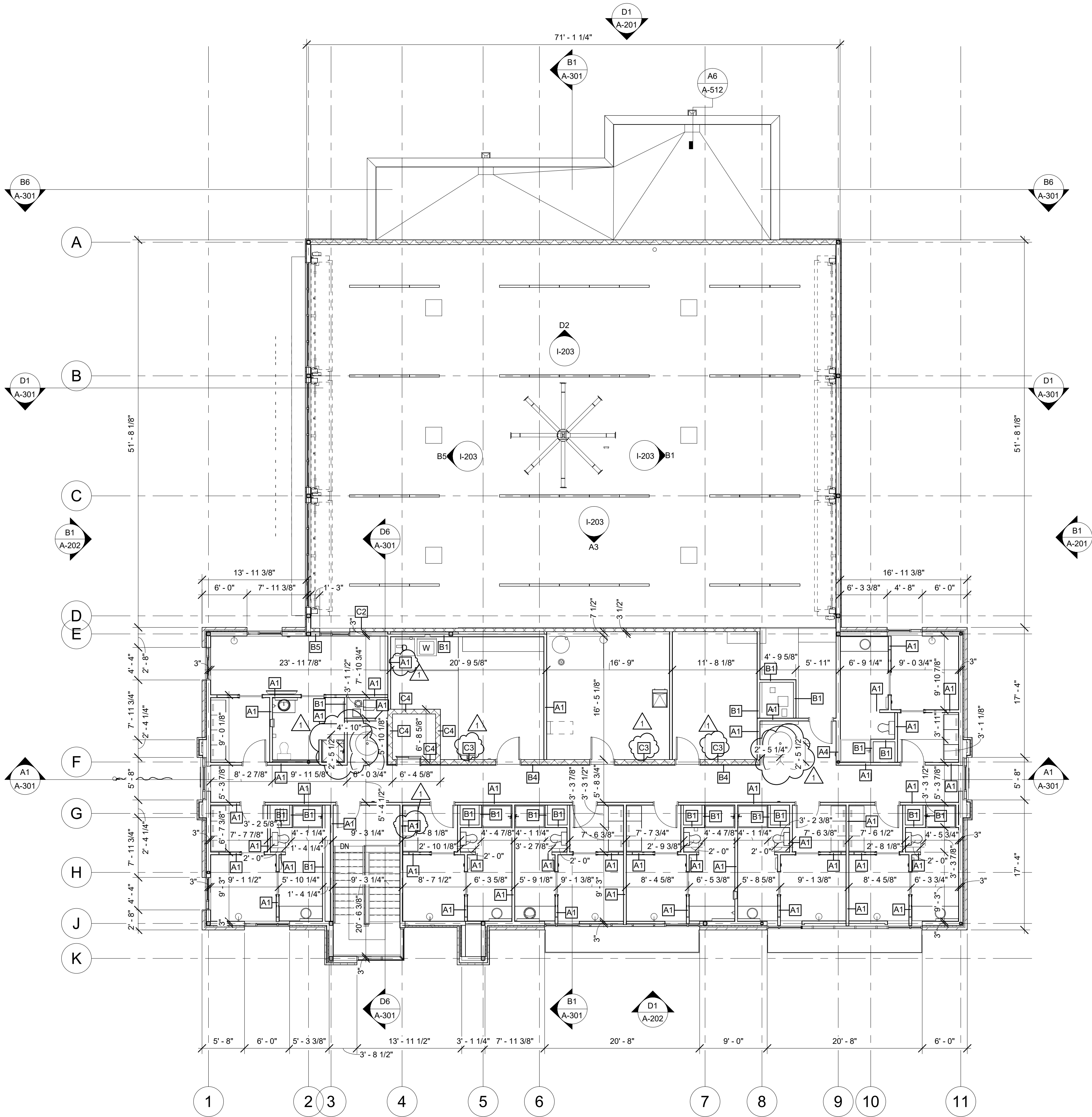
E

D

C

B

A



A3 SECOND FLOOR DIMENSION PLAN
1/8" = 1'-0"



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FIRE STATION #4
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5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

#	Description	Date
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CHK'D BY:	PJM

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SECOND FLOOR
DIMENSION PLAN

A-104

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**FIRE STATION #4
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**SECOND FLOOR
REFLECTED
CEILING PLAN**

A-112

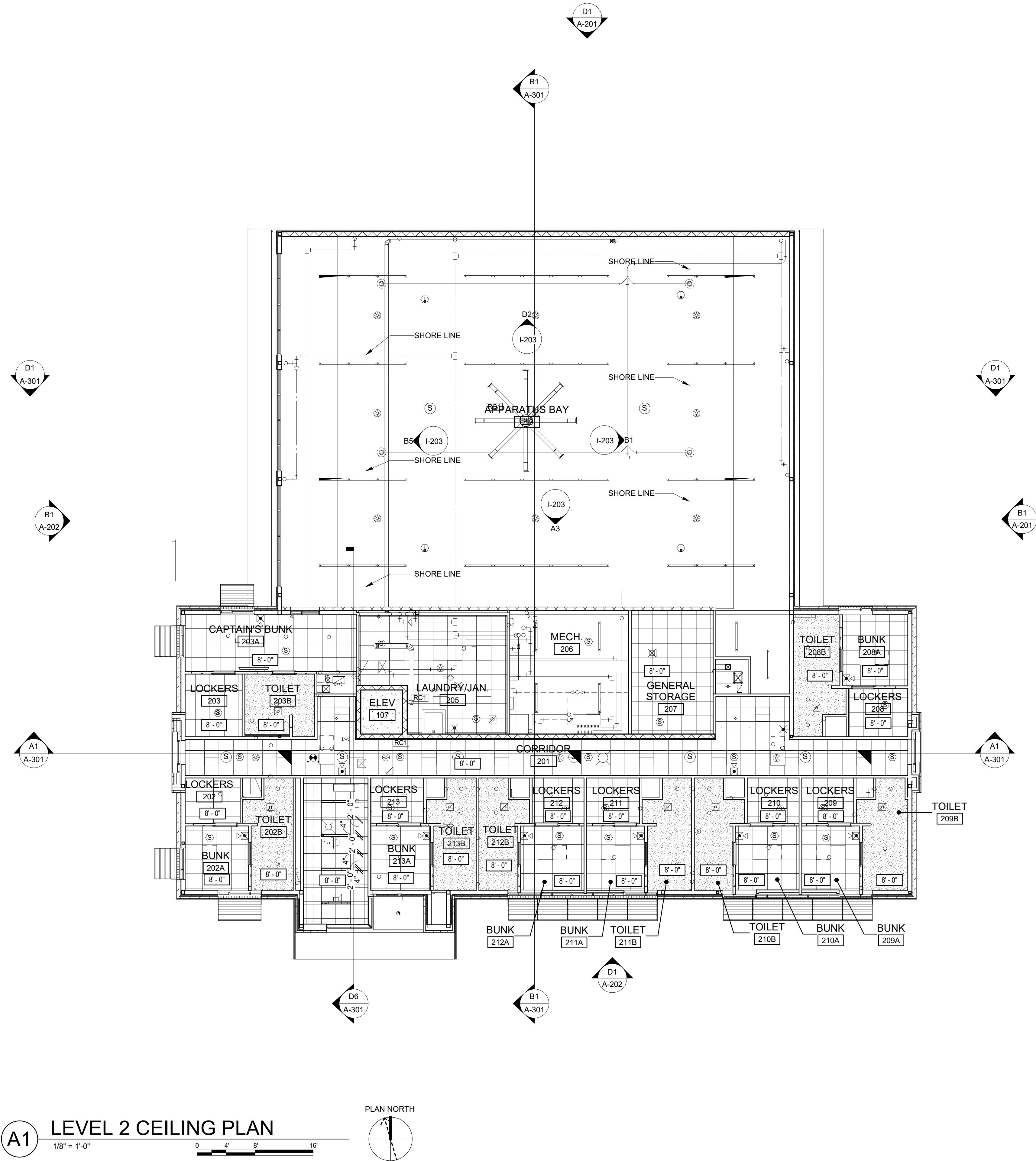
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CEILING PLAN LEGEND

	PLASTER, GYPSUM OR PORTLAND CEMENT		LIGHT FIXTURE, RECESSED FLUORESCENT A (2x4)
	TILE, ACOUSTICAL CEILING		LIGHT FIXTURE, RECESSED FLUORESCENT B (1x4)
	SHEET METAL		LIGHT FIXTURE, RECESSED FLUORESCENT C (1x8)
	CEILING ELEVATION TAG		LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT A (2x4)
	PENDANT HEAD SPRINKLERS		LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT B (1x4)
	ACCESS DOOR (AD) OR ACCESS PANEL (AP)		LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT C (1x8)
	RETURN AIR, CEILING		EMERGENCY LIGHTING, ONE EMERGENCY BATTERY POWER
	SUPPLY AIR, CEILING		EMERGENCY LIGHTING, THREE EMERGENCY BATTERY POWER
	LIGHT FIXTURE, FLUORESCENT EMERGENCY		HEAT DETECTOR
	EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROW		SMOKE DETECTOR
	LIGHT FIXTURE, INCANDESCENT, CEILING MOUNTED		
	LIGHT FIXTURE, 4' LED LINEAR RECESSED BASIS OF DESIGN: MANUFACTURER = FOCAL POINT MODEL = SEEM 4, 1.5" POP		
	LIGHT FIXTURE, 2' LED LINEAR RECESSED BASIS OF DESIGN: MANUFACTURER = FOCAL POINT MODEL = SEEM 4, 1.5" POP		

SHEET NOTES

- SEE ROOM FINISH SCHEDULE SHEET I-610 FOR CEILING TYPES AND MATERIALS IN EACH ROOM/AREA.
- PERIMETER TRACK FOR ALL ACOUSTICAL CEILING GRIDS SHALL BE INSTALLED IN ACCORDANCE WITH IBC AND CISCA GUIDELINES.
- ALL DIMENSIONS ARE FROM FACE OF FINISH MATERIAL.
- CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
- CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. SEE INTERIOR ELEVATIONS FOR SOFFIT HEIGHTS ABOVE CASEWORK, U.N.O.
- SEE ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING, AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH CEILING LAYOUT SHOWN ON THIS SHEET.
- LIGHT FIXTURES, HVAC DIFFUSERS, AND SPECIAL SYSTEMS ARE SHOWN FOR POSITIONING WITHIN FINISH CEILING LAYOUT. COORDINATE WITH ELECTRICAL, MECHANICAL, AND SPECIAL SYSTEMS DRAWINGS FOR FIXTURE TYPES, LOCATIONS, SIZES, AND SCHEDULES.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS INDICATED.
- CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, GENERAL ALARM, AND MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED, U.N.O..
- INSTALL ACCESS PANELS IN GYP BD CEILINGS AT DUCT DAMPER CONTROLS, DUCT MOUNTED SMOKE DETECTORS, MANUAL DUCT CONTROLS, ETC.
- LIGHT FIXTURES LOCATED AT STAIRS SHALL OCCUR AT EACH FLOOR AND INTERMEDIATE LANDINGS.
- LOCATE SPRINKLER HEADS IN THE CENTER ZONE OF THE CEILING TILE. ALIGN CORRIDOR SPRINKLER HEADS IN THE SAME LINE PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION.



A1 LEVEL 2 CEILING PLAN
1/8" = 1'-0"





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PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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PROJECT NO: 18225R21001

DATE: 11.21.2022

DRAWN BY: JSP

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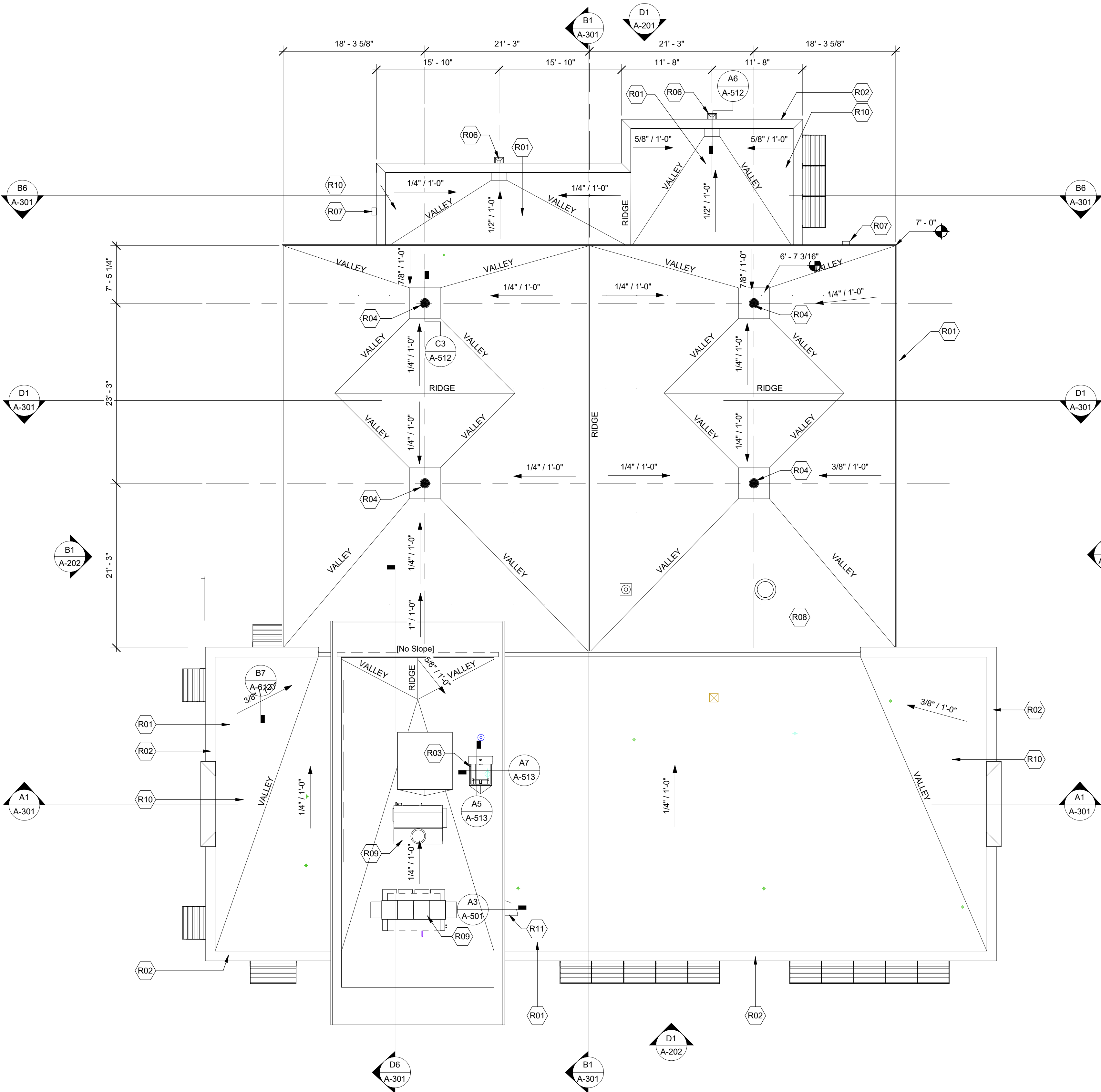
ROOF PLAN

A-121

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ROOF PLAN KEYNOTES

KEY	DESCRIPTION
R01	FULLY ADHERED TPO ROOFING ON 1/2" RECOVERY BD.
R02	PRE-FINISHED SHEET METAL PARAPET CAP
R03	PRE-FABRICATED ROOF HATCH
R04	INTERNAL ROOF DRAIN (RE: PLMG.)
R06	PRE-FINISHED SHEET METAL DOWNSPOUT & CONDUCTOR HEAD
R07	EXTERIOR WALL-MOUNTED LIGHT FIXTURE (RE: ELECT.)
R08	ROOF-MOUNTED EXHAUST FAN (RE: MECH. & ELECT.)
R09	ROOF-MOUNTED MECHANICAL EQUIP. (RE: MECH. & ELECT.)
R10	TAPERED RIGID INSUL. ROOF CRICKET
R11	24"x30" METAL ACCESS DOOR



A1 ROOF PLAN

1/8" = 1'-0"

0 4' 8' 16'





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DRAWN BY:	JSP
CHK'D BY:	GLW

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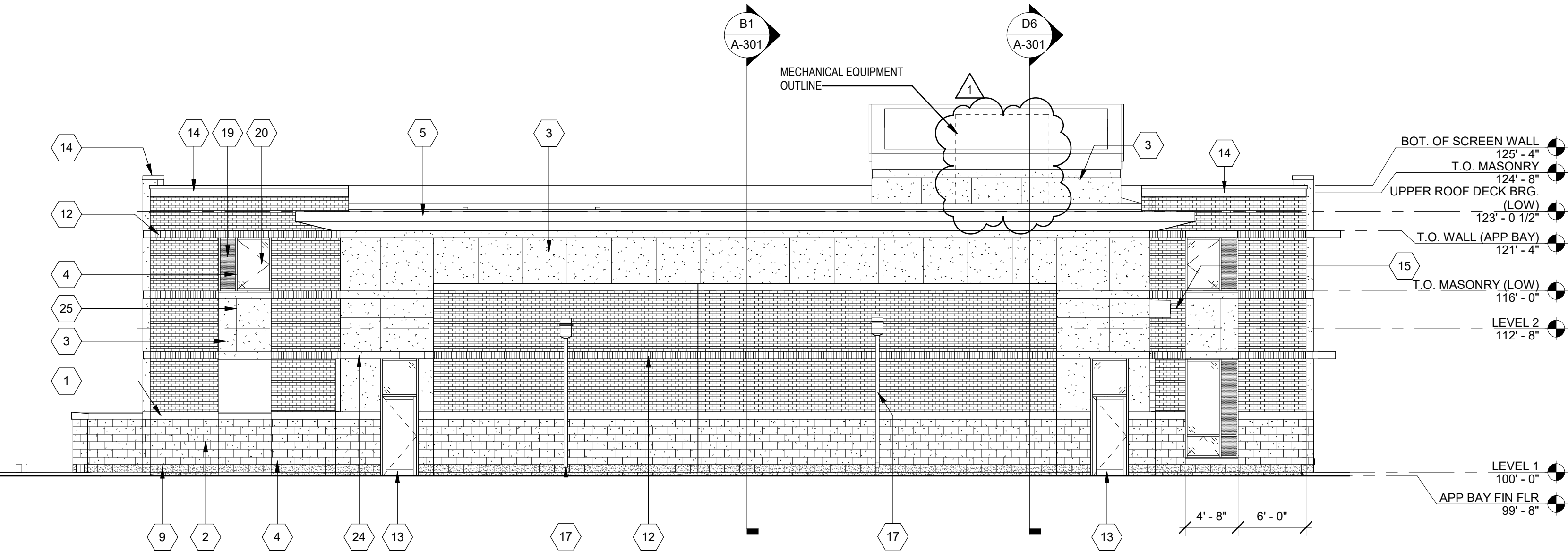
**BUILDING
ELEVATIONS**

A-201

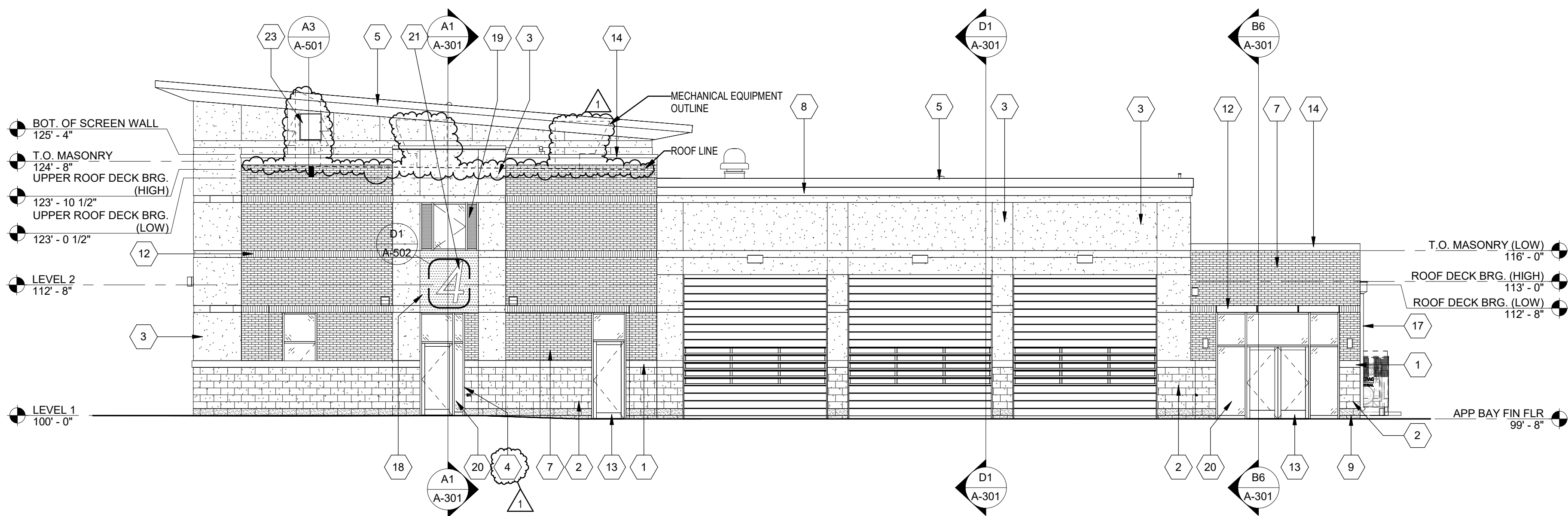
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BUILDING ELEVATION...

KEY	DESCRIPTION
1	CAST STONE MASONRY SILL
2	ANCHORED STONE MASONRY VENEER (TYPE 1)
3	EIFS
4	PRE-FINISHED ALUMINUM-FRAMED STOREFRONT
5	PRE-FINISHED SHEET METAL FASCIA
6	PRE-FINISHED ALUMINUM-FRAMED STOREFRONT
7	4" MASONRY VENEER (COMMON BOND)
8	PRE-FINISHED SHEET METAL SOFFIT PANELS
9	ANCHORED STONE MASONRY VENEER (TYPE 2)
12	4" MASONRY VENEER (SOLDIER)
13	PRE-FINISHED ALUMINUM-FRAMED ENTRANCE
14	PRE-FINISHED SHEET METAL PARAPET CAP
15	PRE-FINISHED SHEET METAL CANOPY
16	3/8" FIBER-CEMENT PANEL GAP (TYP.)
17	PRE-FINISHED SHEET METAL CONDUCTOR HEAD & DOWNSPOUT
18	PRE-FINISHED METAL PLATE WALL PANELS
19	METAL-FACED INSULATED WINDOW PANEL
20	1" INSULATED GLASS UNIT
21	BACKLIT PIN-MOUNTED PRE-FINISHED METAL SIGNAGE
22	WALL HYDRANT (RE: PLMG)
23	24"x30" METAL ACCESS DOOR
24	1/2" DEEP EIFS RECESS
25	3/4" DEEP V-GROOVE EIFS REVEAL
26	BACK-LIT STAINLESS STEEL POST-MOUNTED FIRE DEPARTMENT CREST
27	1/2" METAL PANEL REVEAL



D1 NORTH ELEVATION
1/8" = 1'-0"
0 4' 8' 16'



B1 EAST ELEVATION
1/8" = 1'-0"
0 4' 8' 16'

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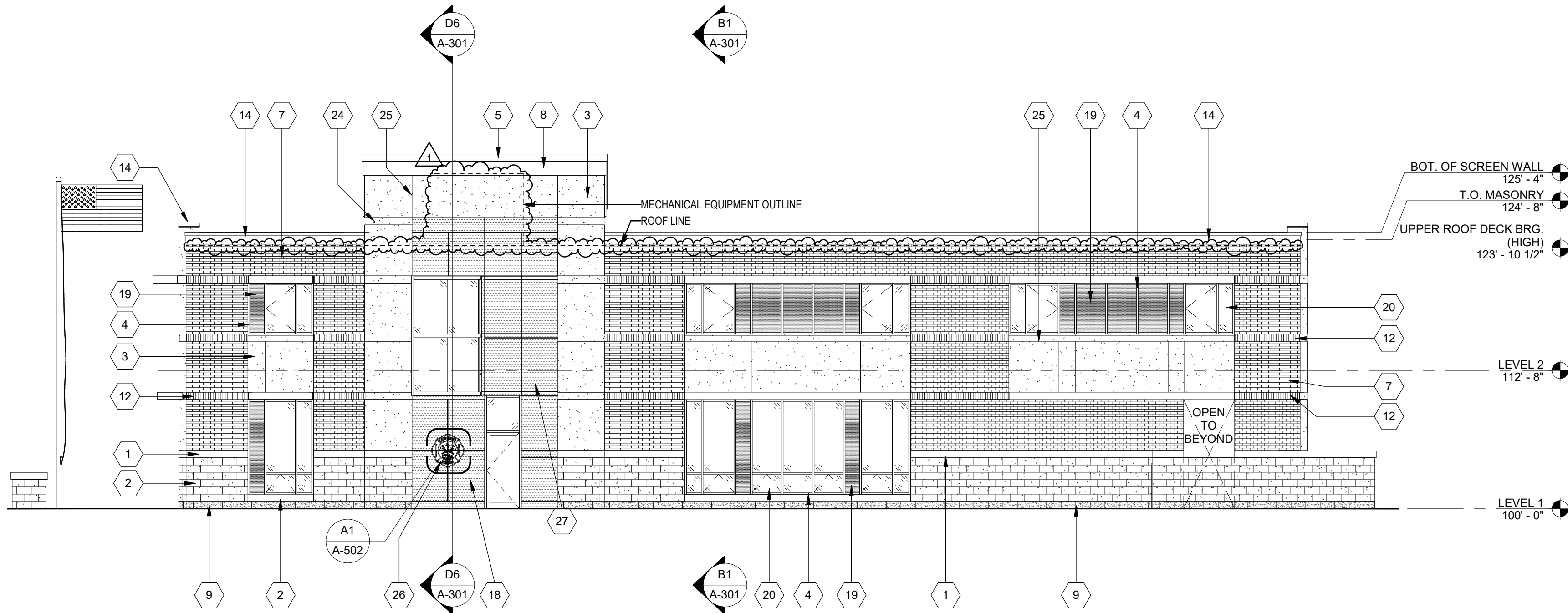
**BUILDING
ELEVATIONS**

A-202

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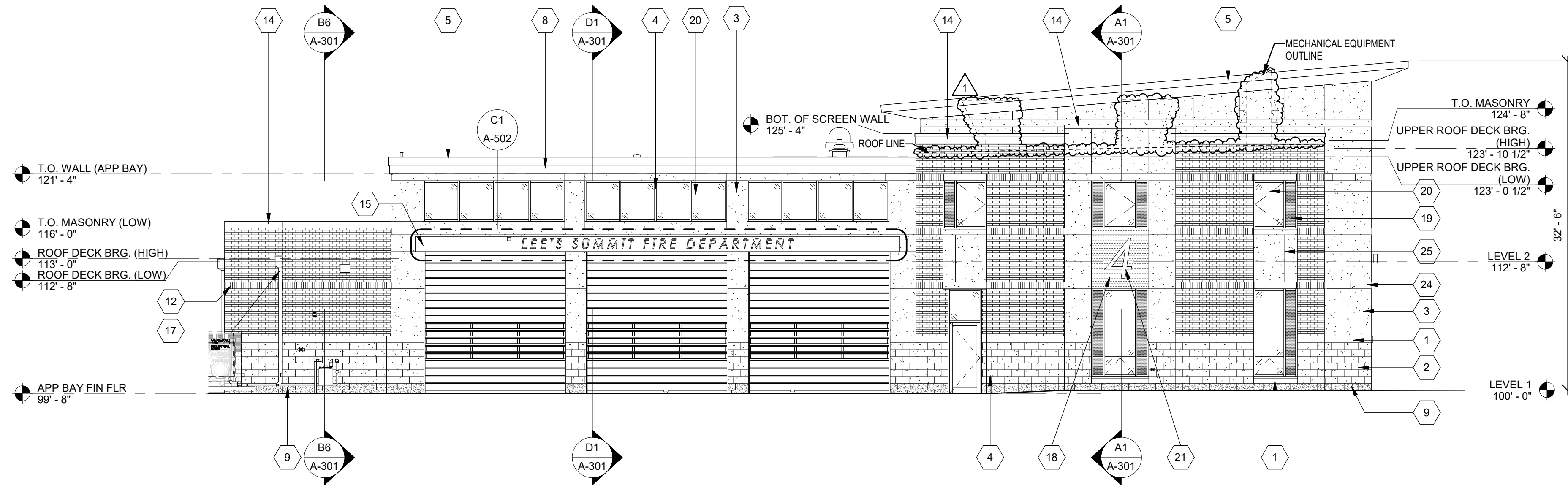
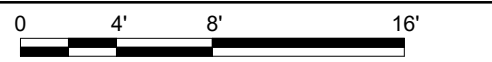
BUILDING ELEVATION...

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27	1/2" METAL PANEL REVEAL



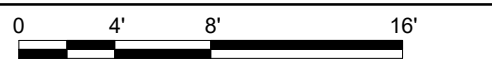
D1 SOUTH ELEVATION

1/8" = 1'-0"

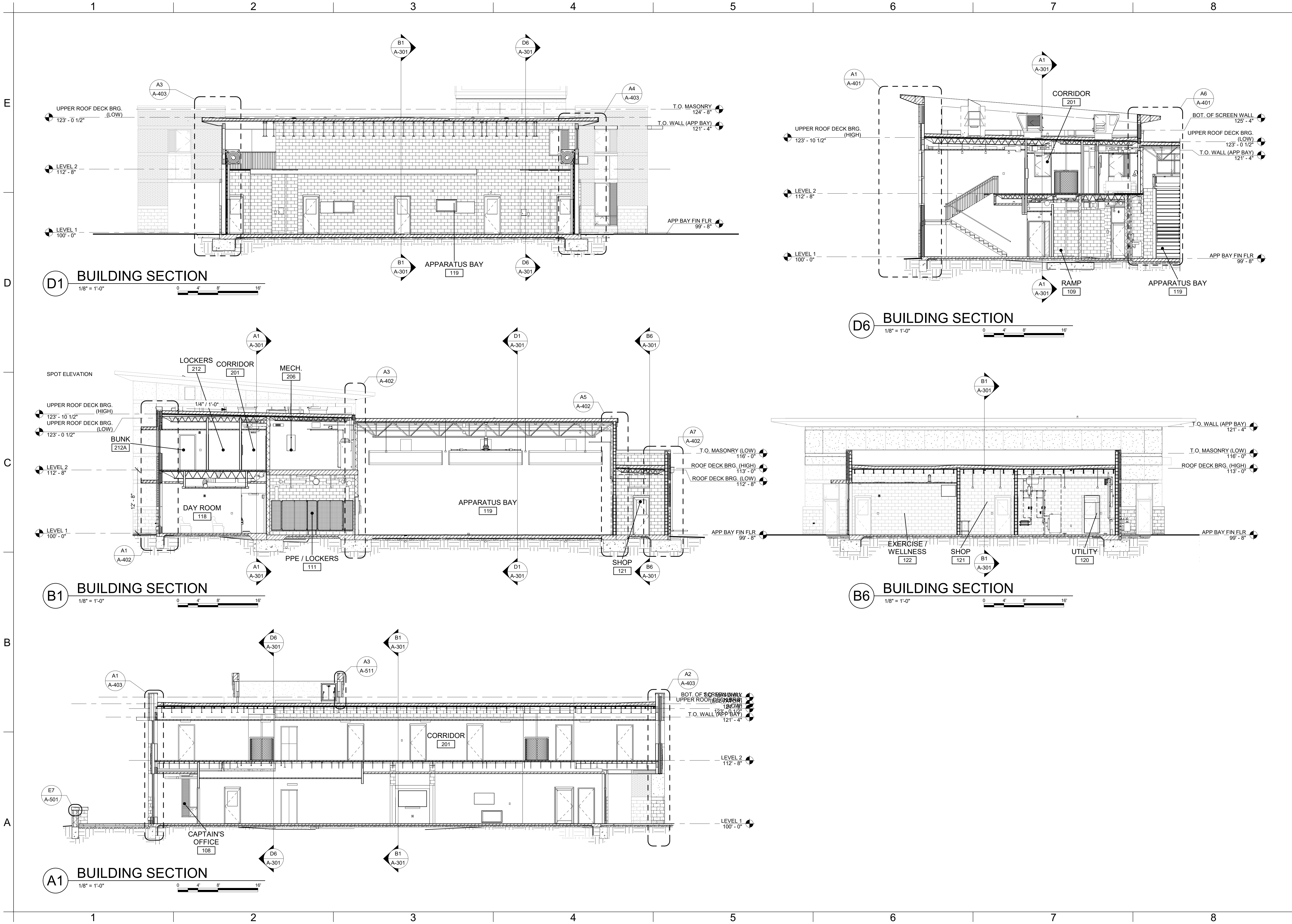


B1 WEST ELEVATION

1/8" = 1'-0"



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A-2009021701
11/21/22
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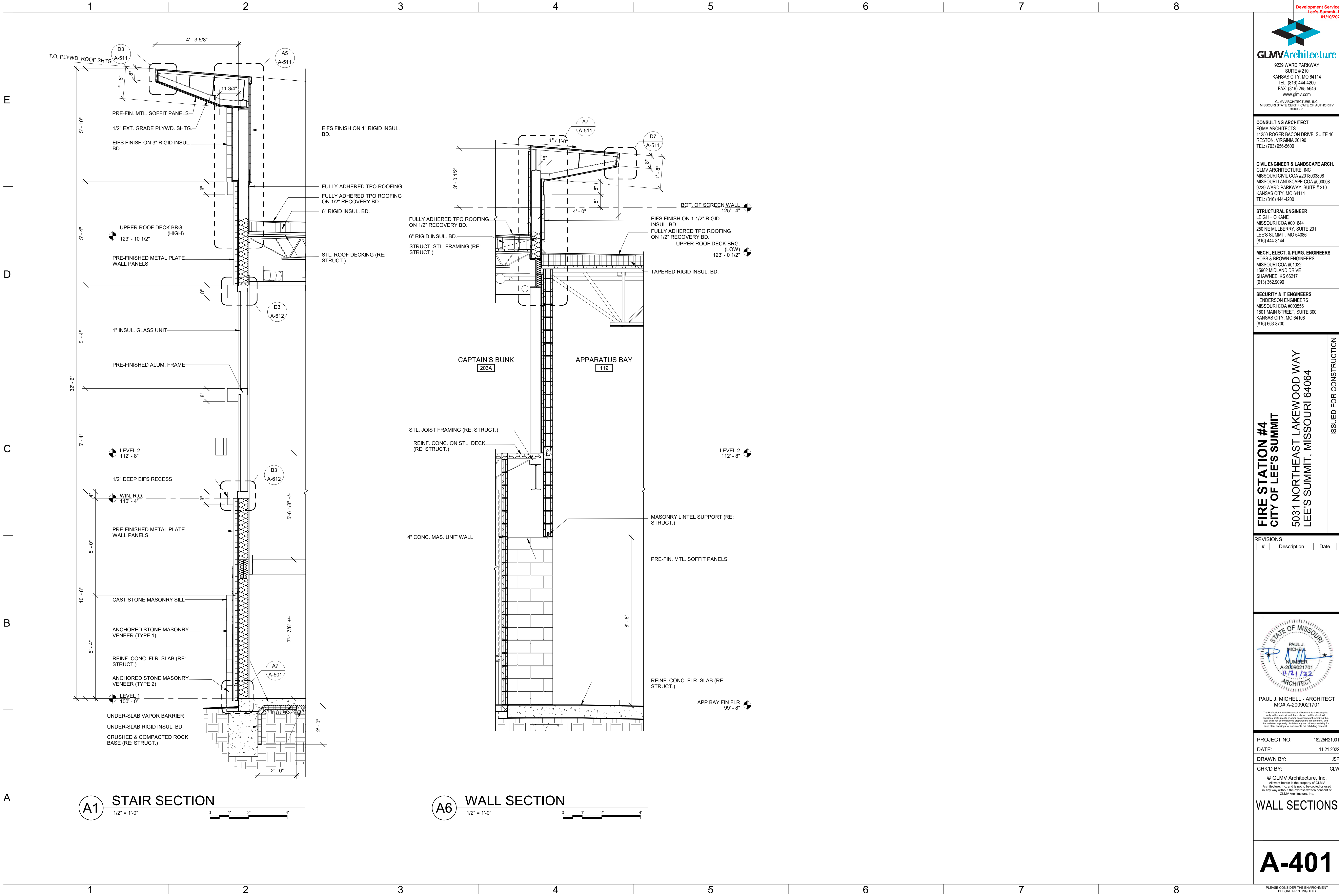
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BUILDING SECTIONS

A-301

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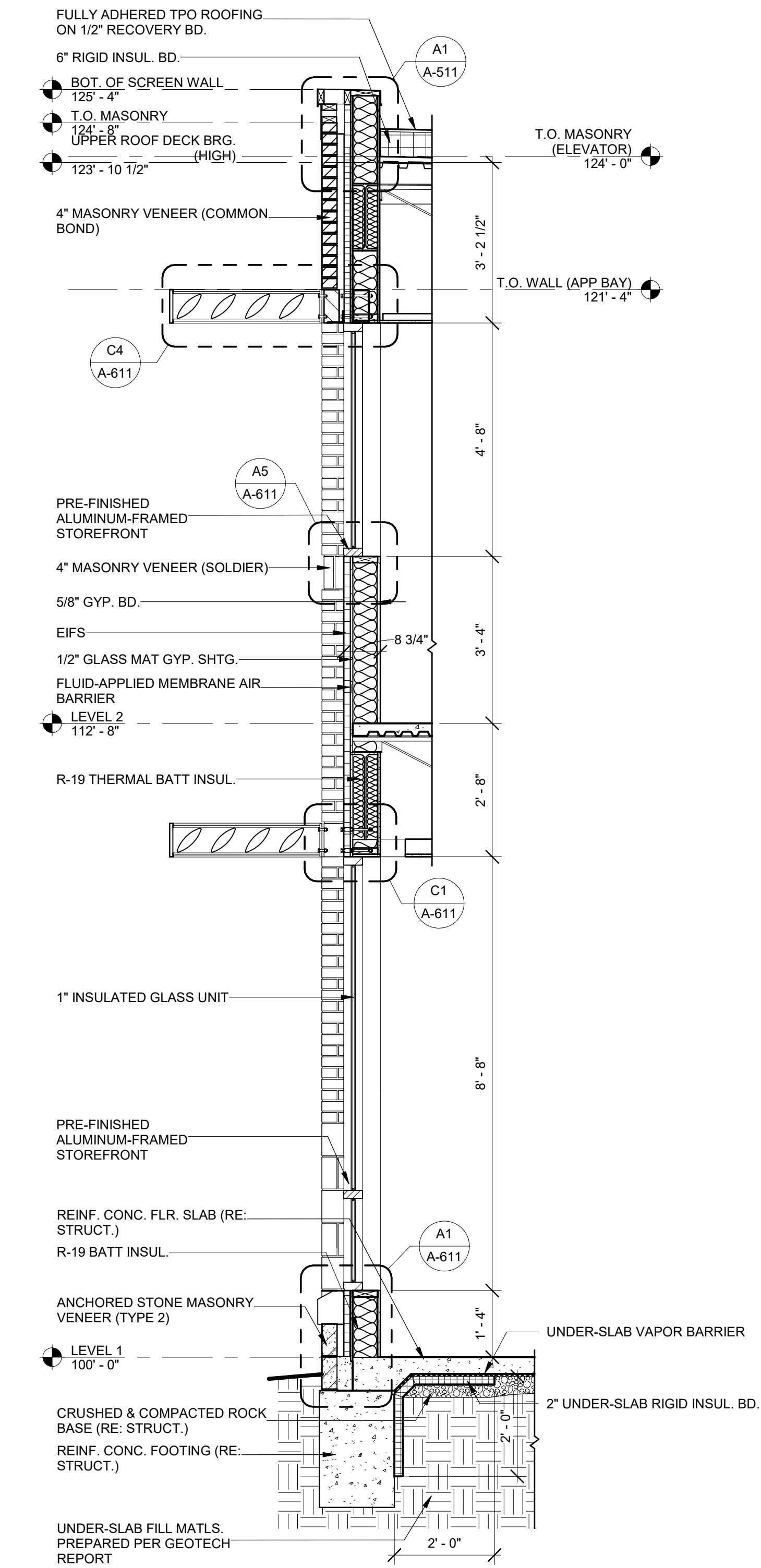
WALL SECTIONS

A-401

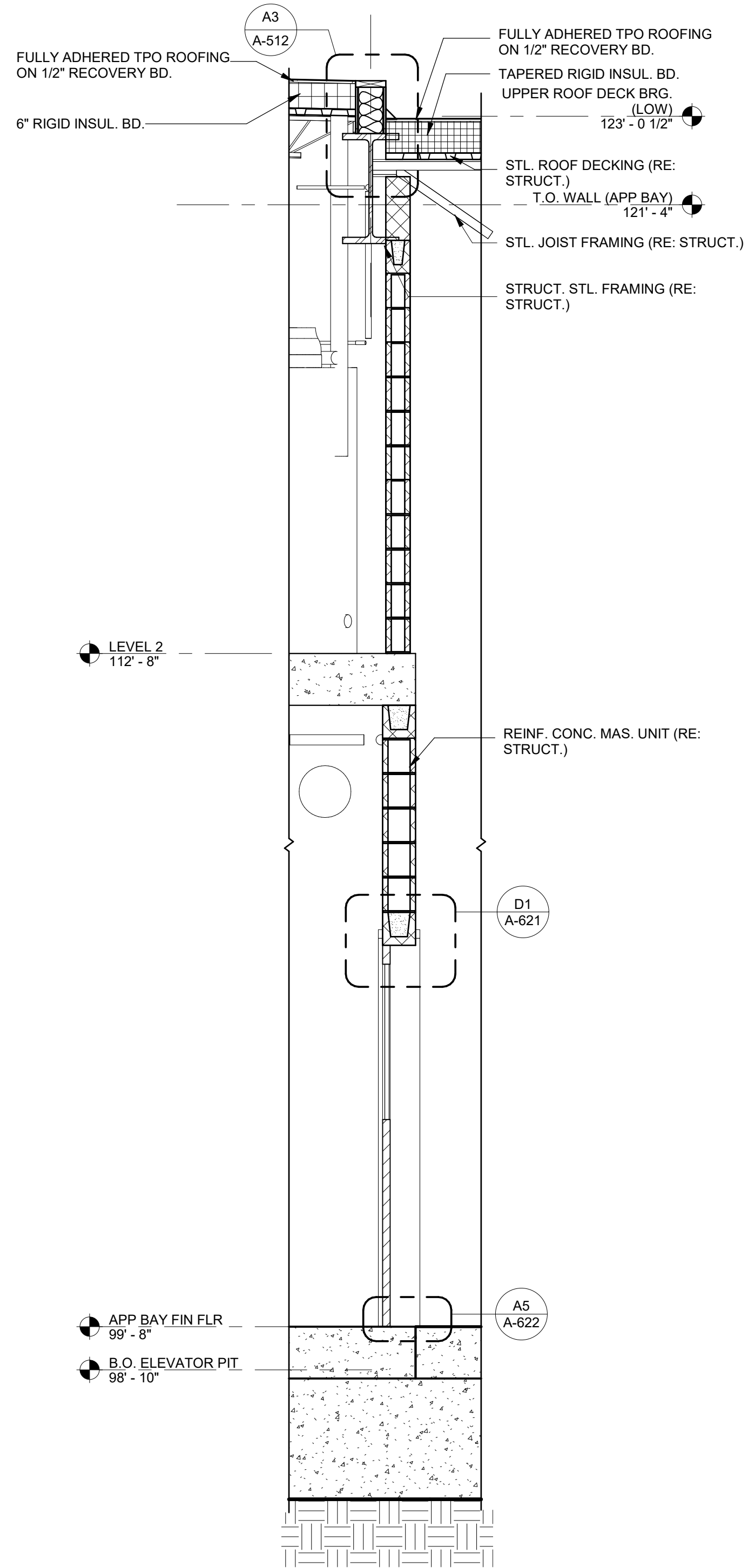
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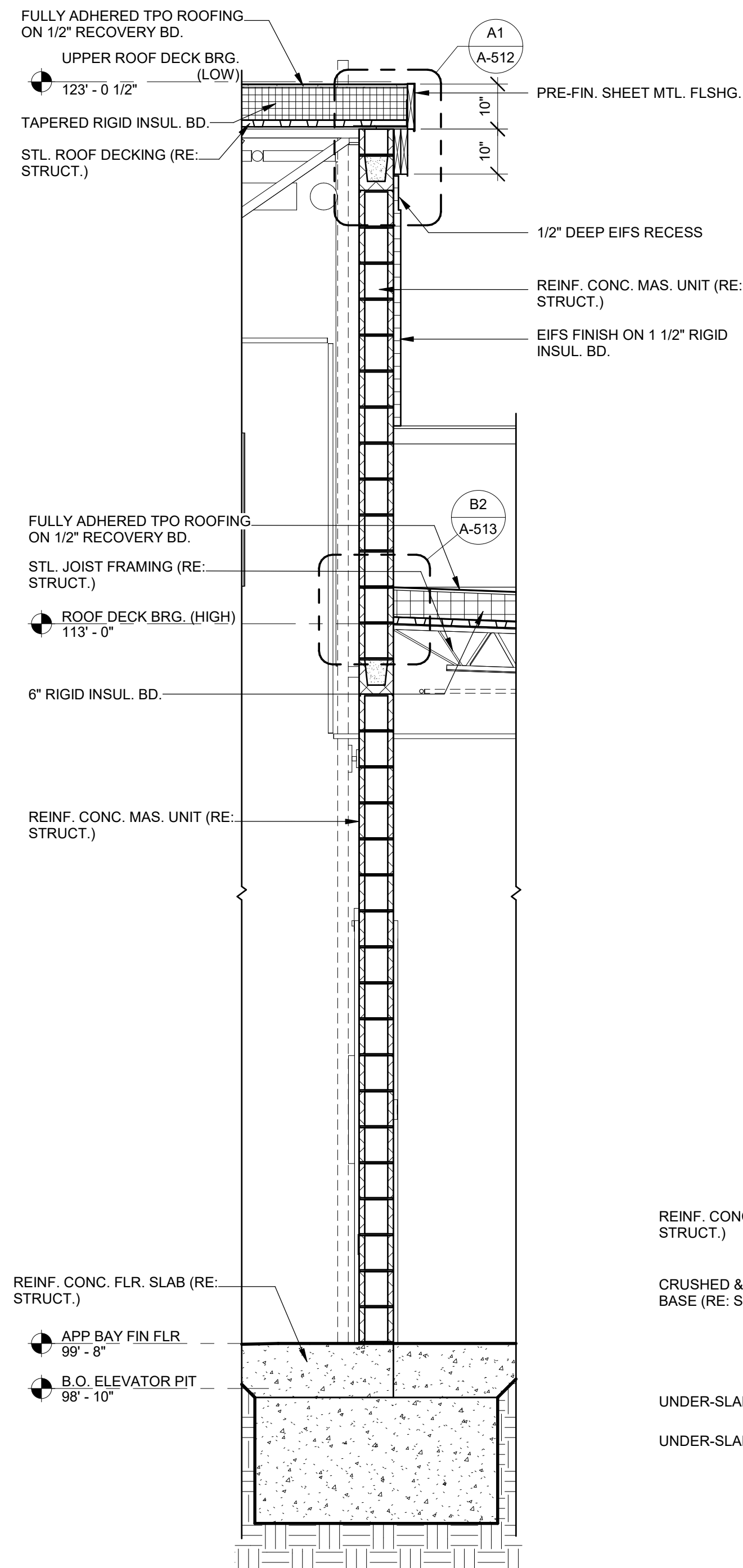
E
D
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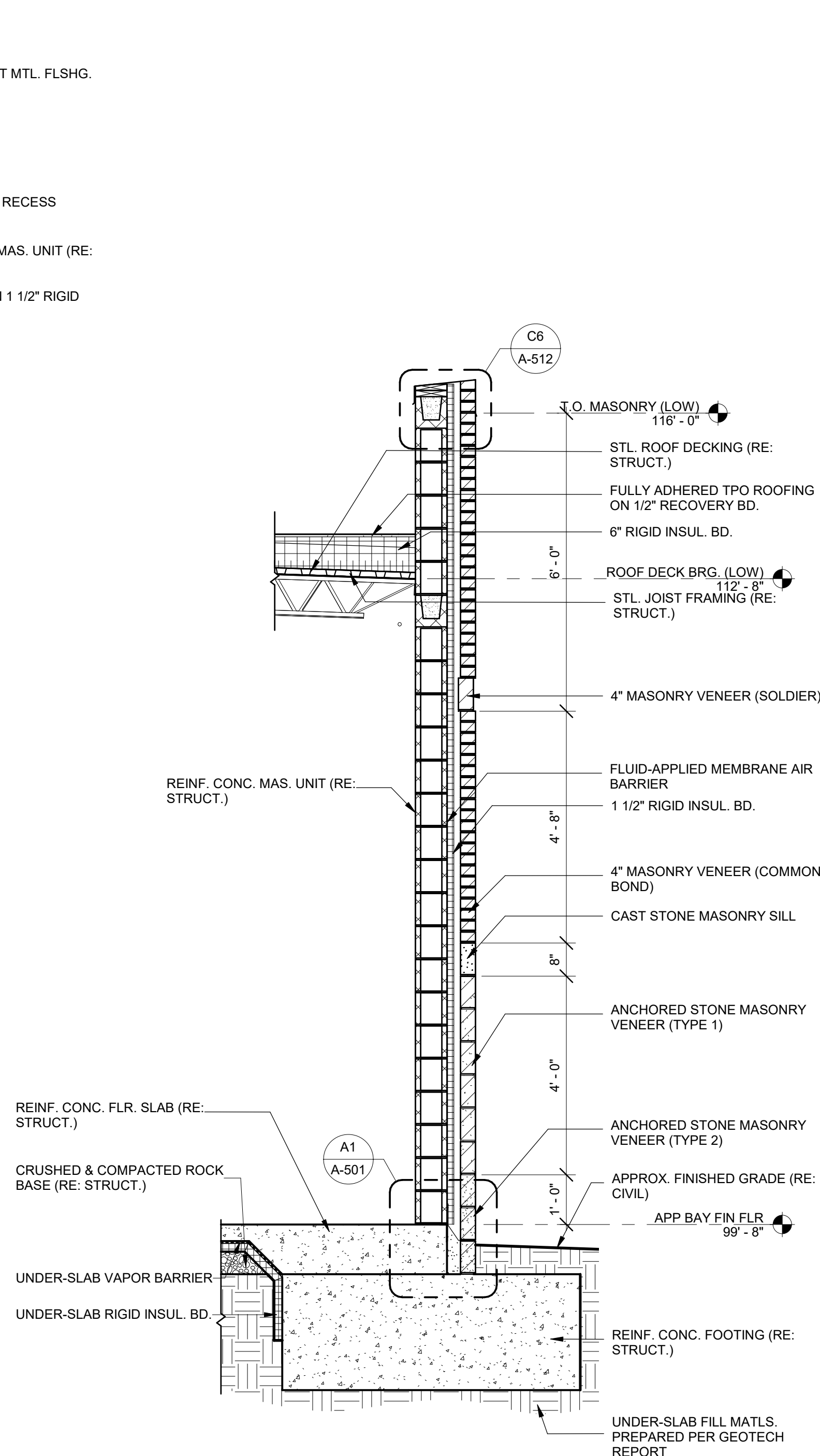
A1 WALL SECTION
1/2" = 1'-0"
0 1' 2' 4'



A3 WALL SECTION
1/2" = 1'-0"
0 1' 2' 4'



A5 WALL SECTION
1/2" = 1'-0"
0 1' 2' 4'



A7 WALL SECTION
1/2" = 1'-0"
0 1' 2' 4'


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#	Description	Date
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18225R21001

DATE:

11.21.2022

DRAWN BY:

JSP

CHK'D BY:

GLW

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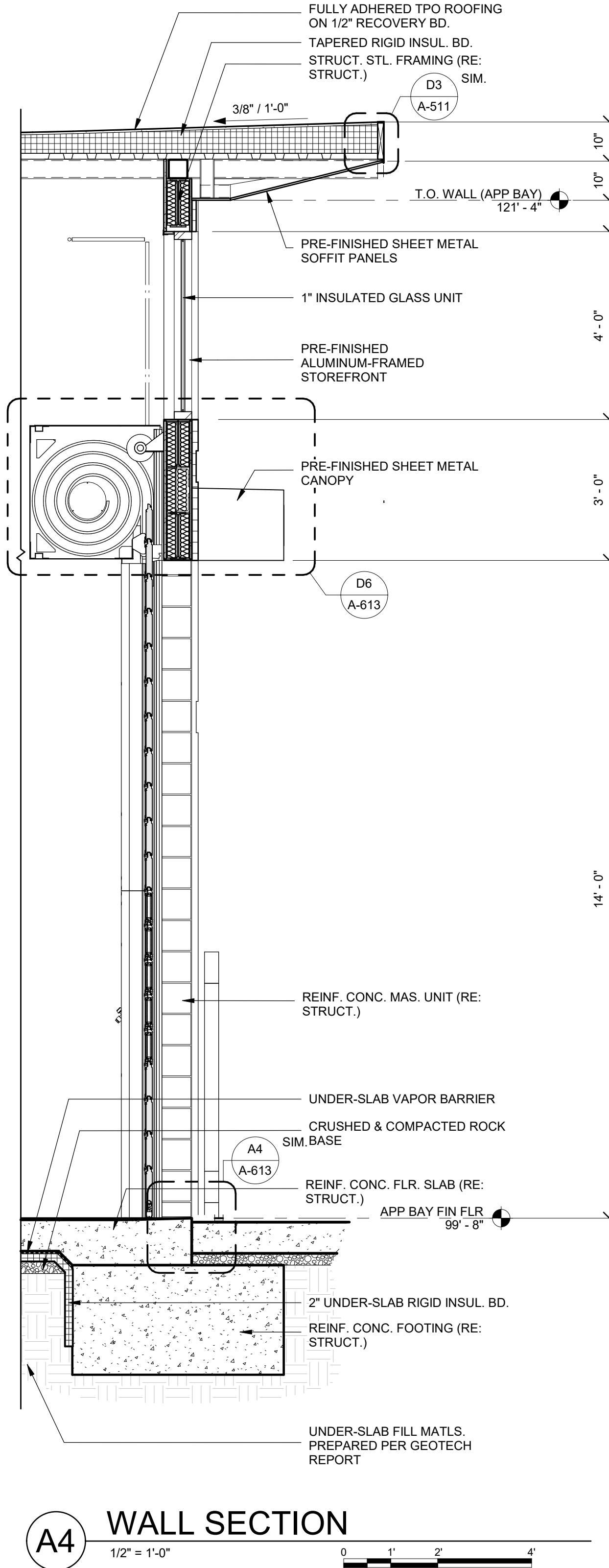
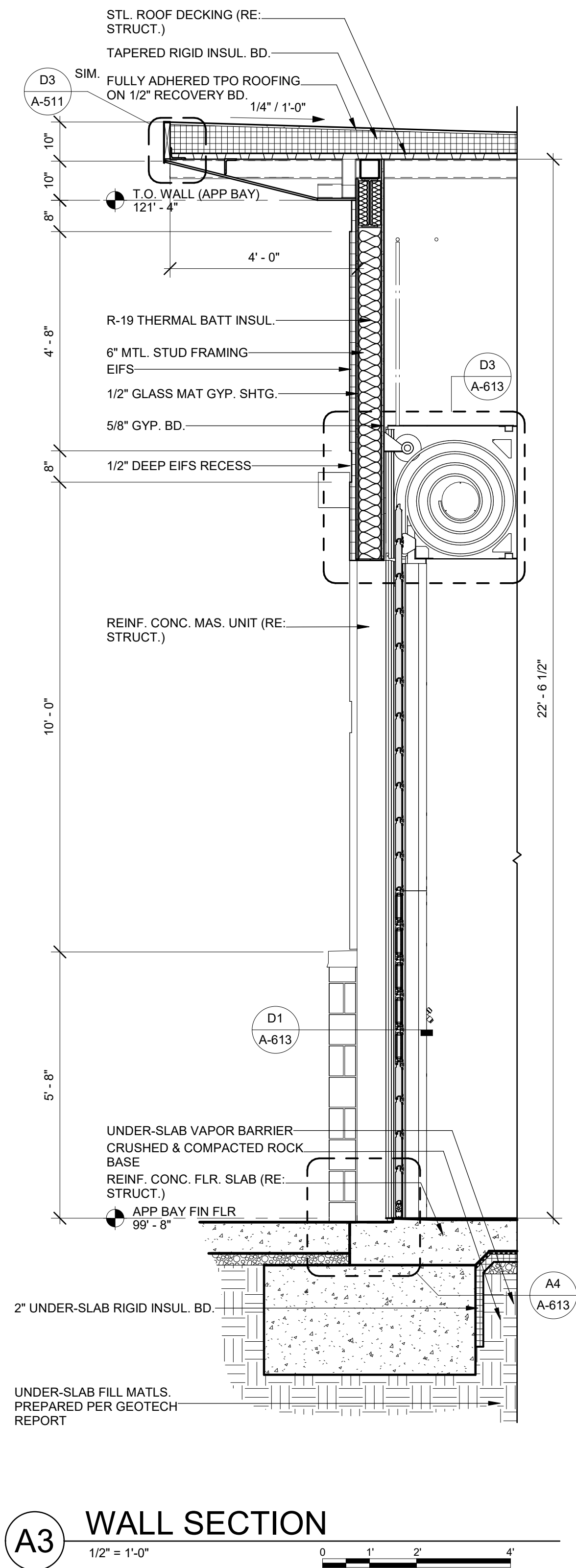
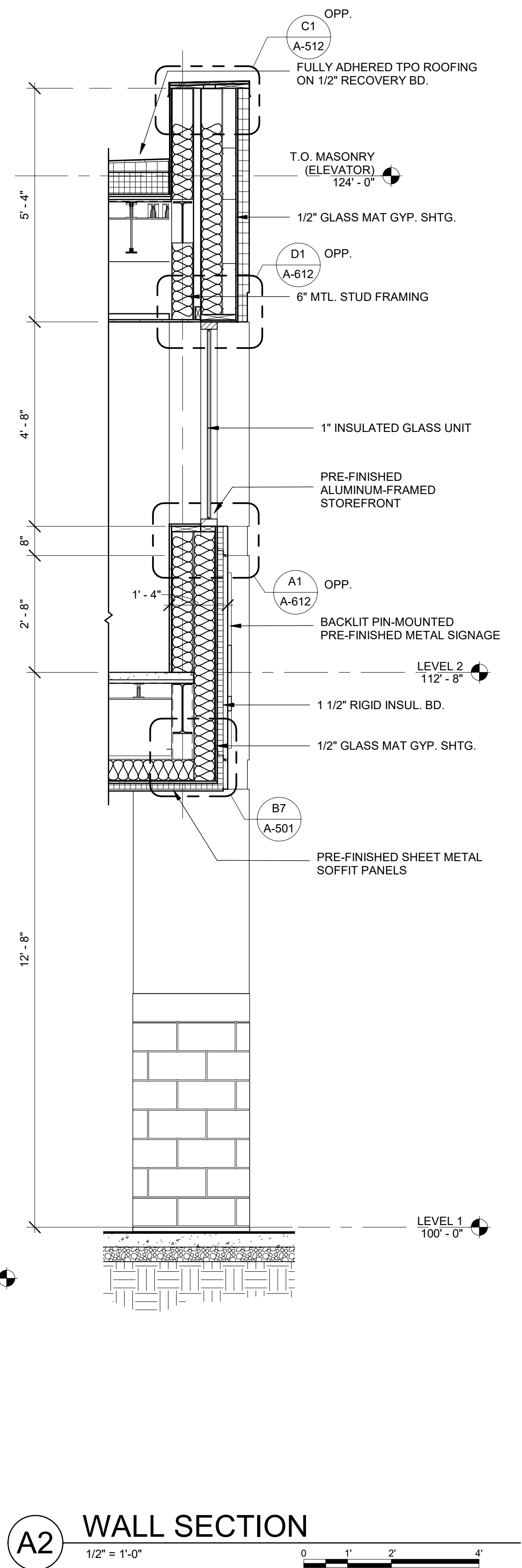
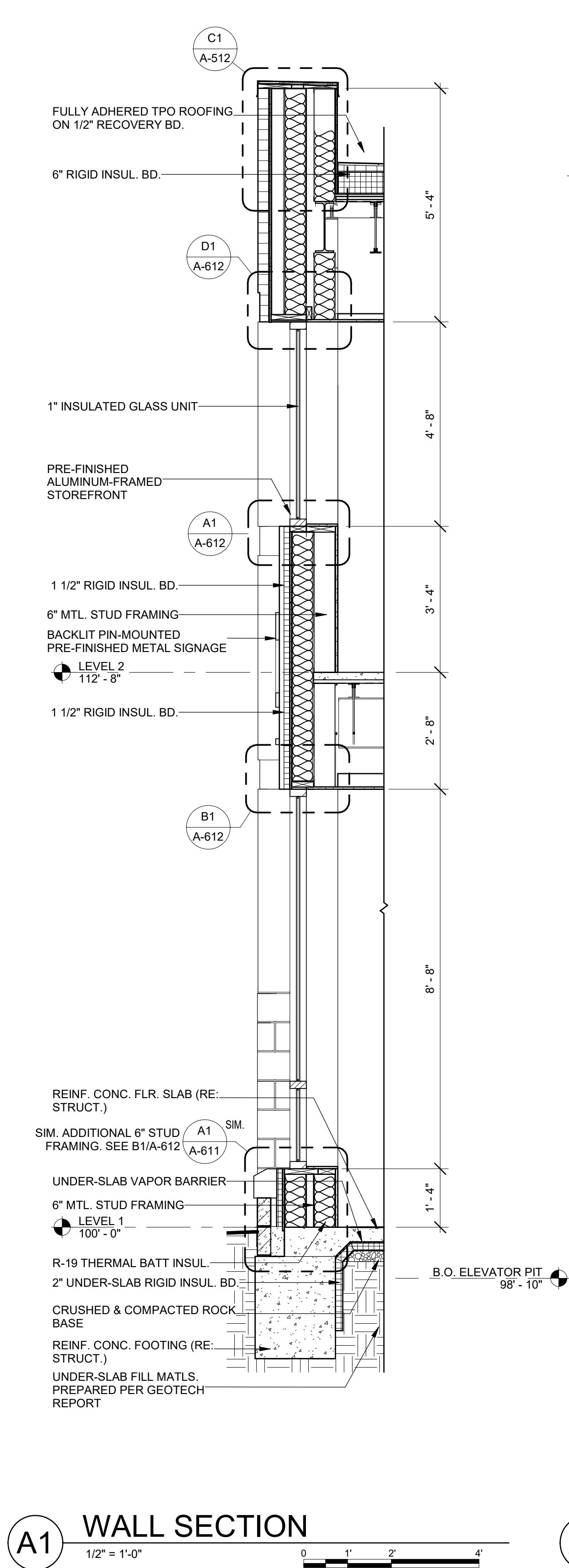
WALL SECTIONS

A-402

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FIRE STATION #4
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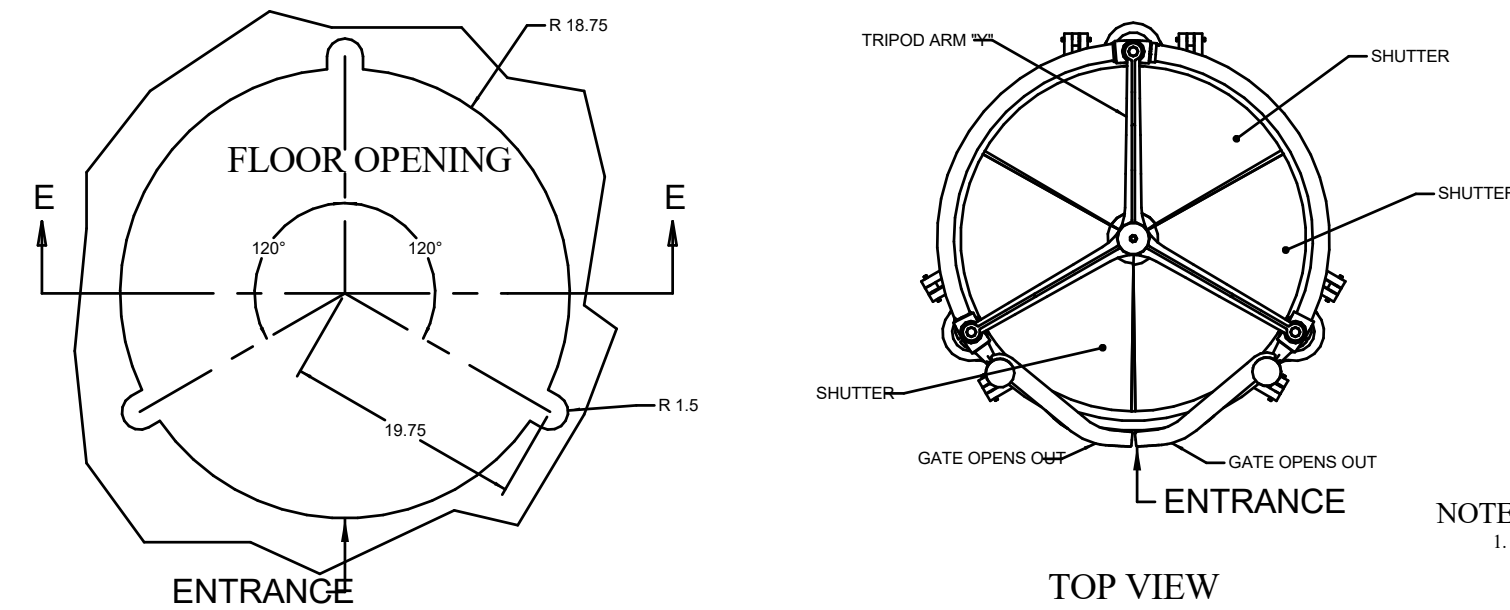
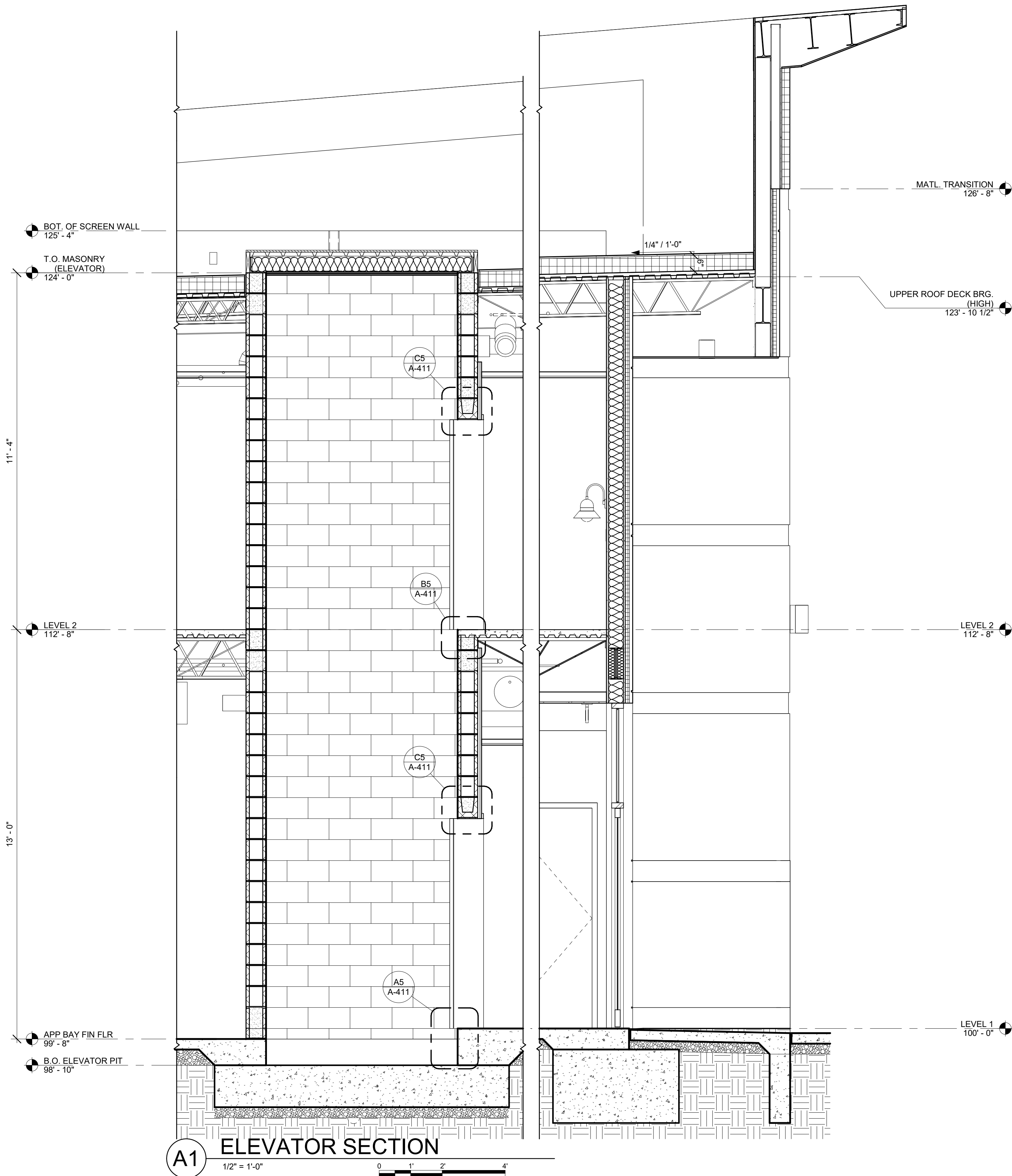
WALL SECTIONS

A-403

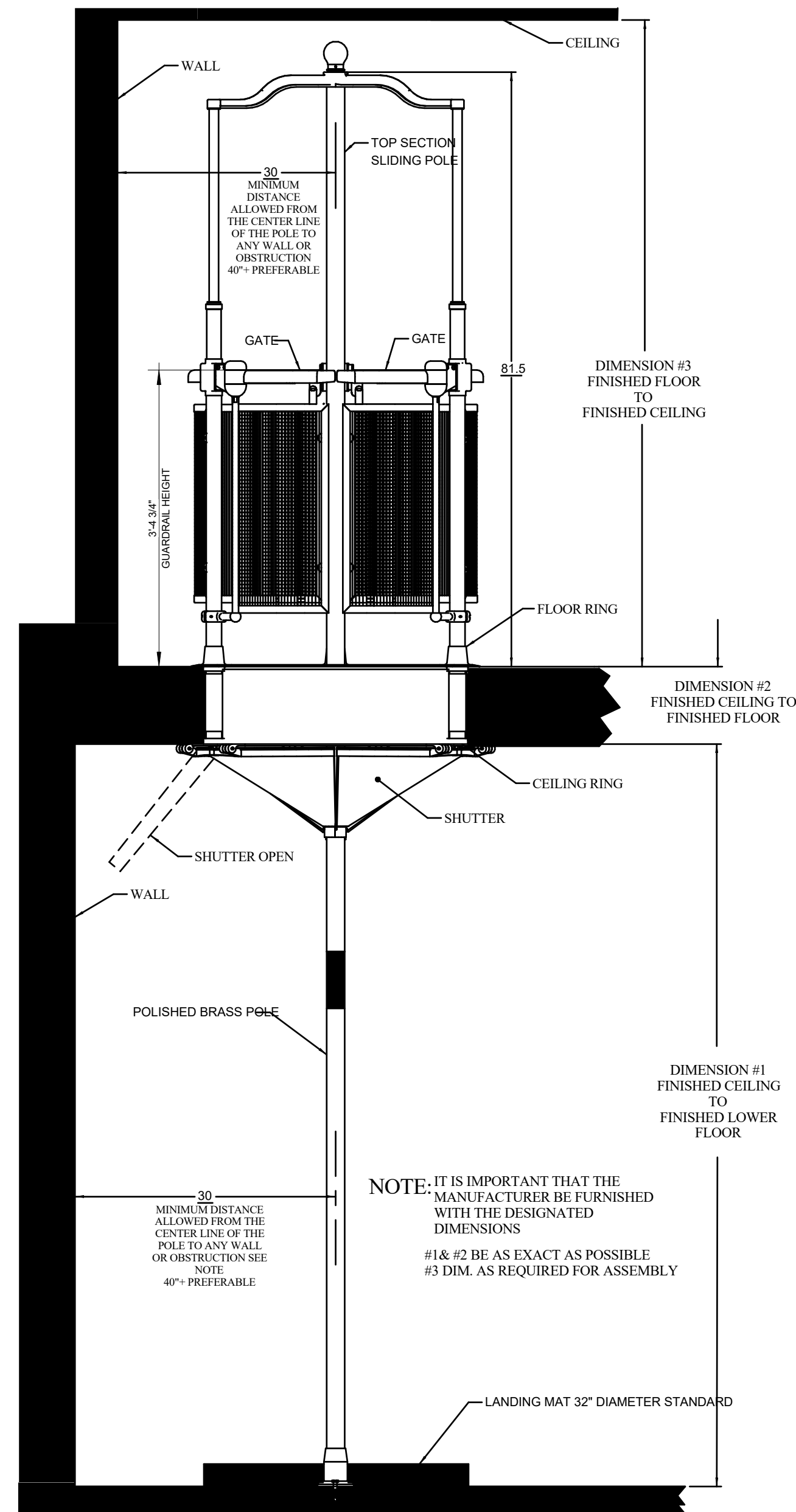
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E
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A6 SLIDE POLE DETAILS



FIRE STATION #4
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LEE'S SUMMIT, MISSOURI 64064

#	Description	Date
1	ASB 01	11/21/2022



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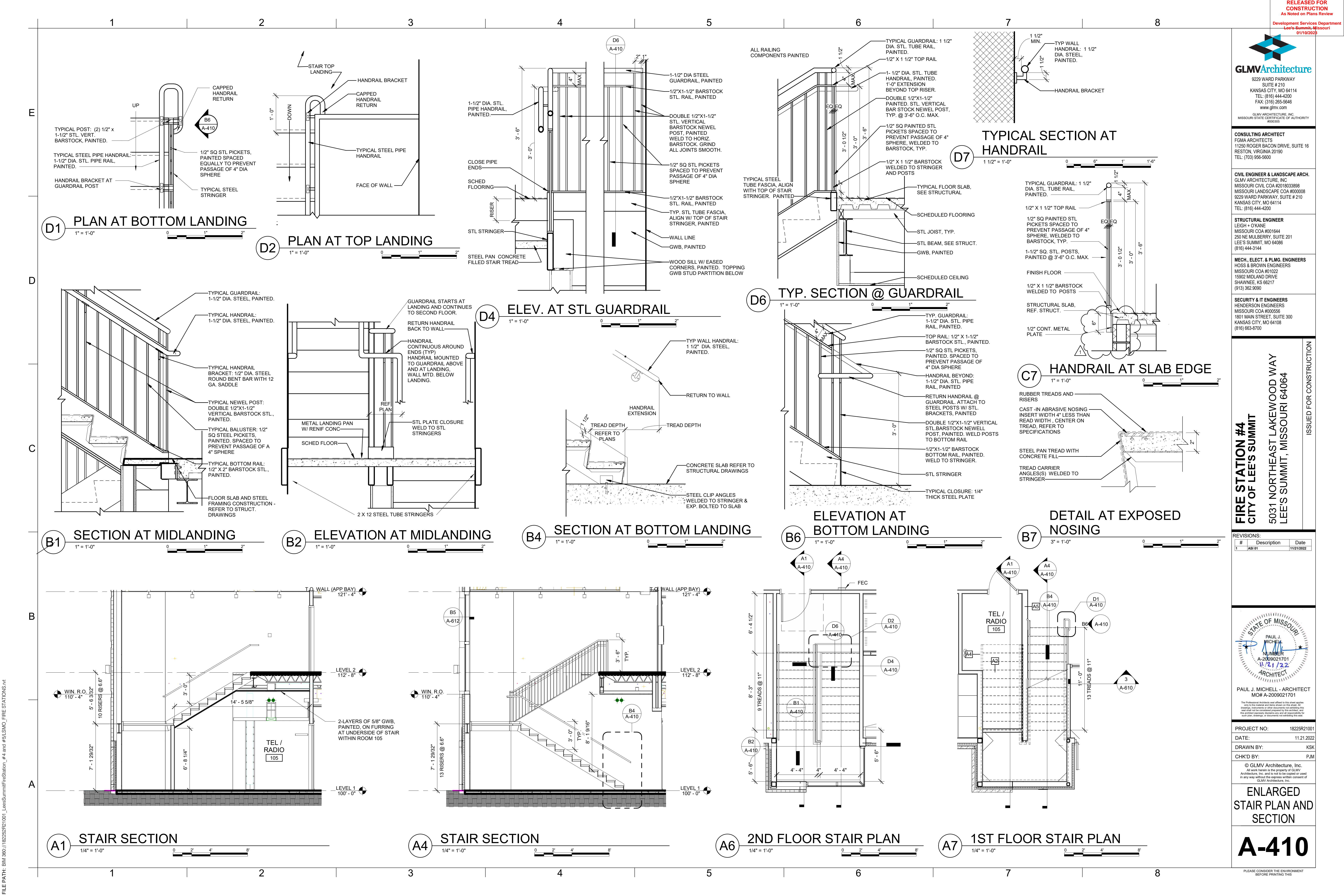
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DATE:	11.21.2022
DRAWN BY:	JSP
CHK'D BY:	PJM

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WALL SECTIONS

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ENLARGED
STAIR PLAN AND
SECTION
A-410

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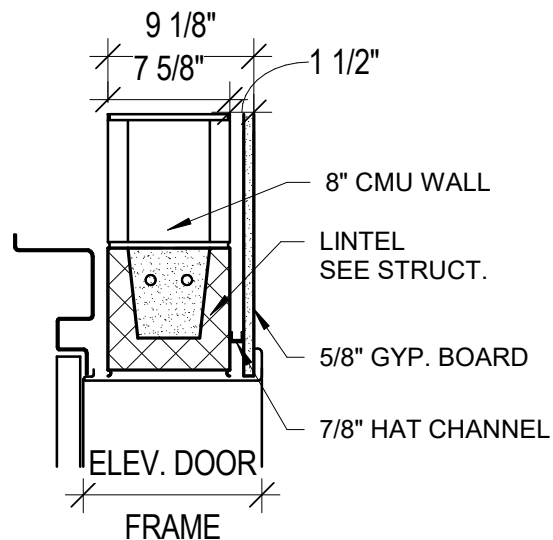
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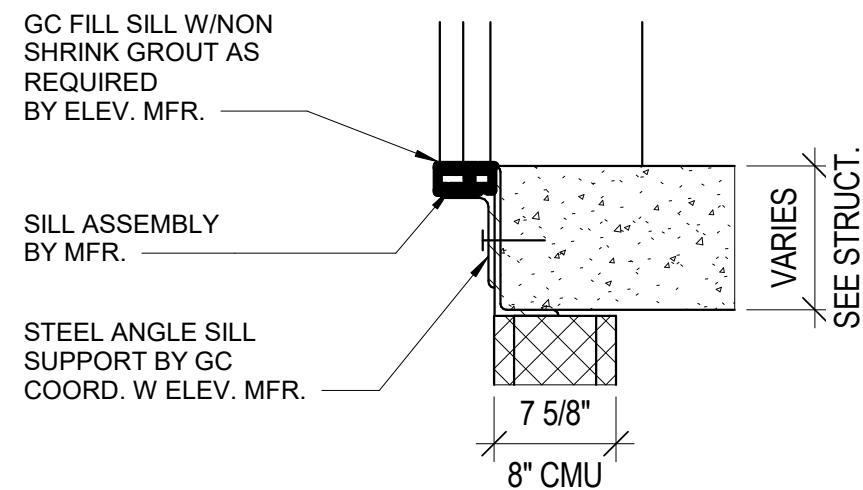
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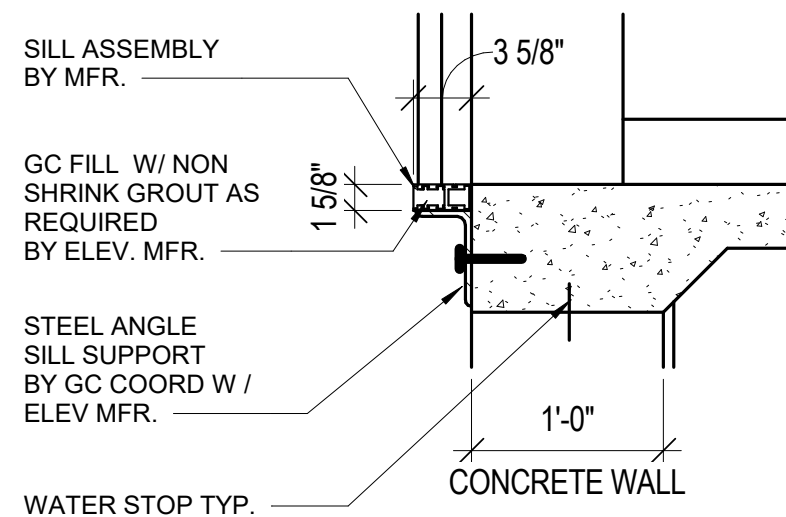
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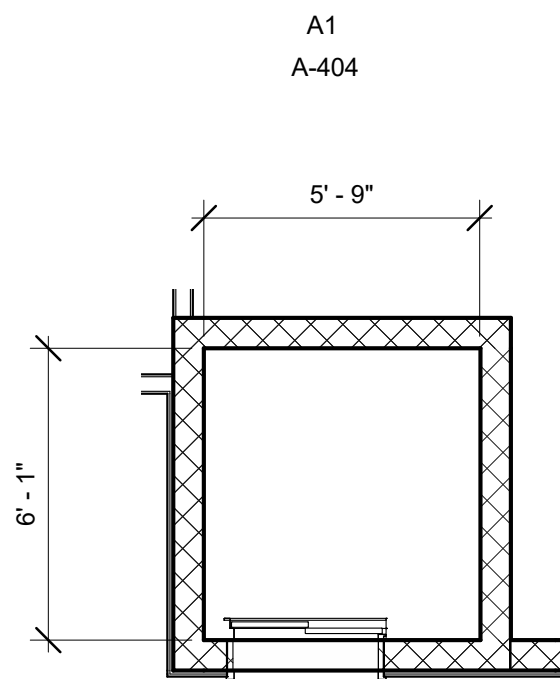
ELEVATOR DOOR
HEAD - TYP.



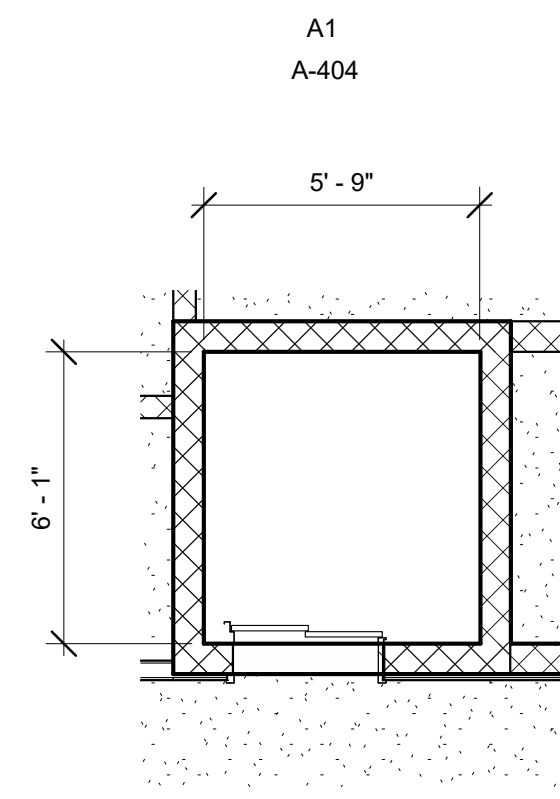
ELEVATOR - DOOR SILL TYP.



ELEVATOR DOOR SILL
1ST FLOOR



ENL. ELEVATOR PLAN -
2ND FLOOR



ENL. ELEVATOR PLAN -
1ST FLOOR

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FIRE STATION #4
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**ENLARGED
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A-411

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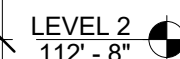
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CHK'D BY:	P

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WALL DETAILS

A-502

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(D1) SIGNAGE DETAIL

1 1/2" = 1'-0"

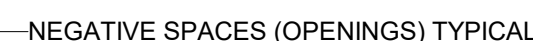
0 6" 1' 1'-6"



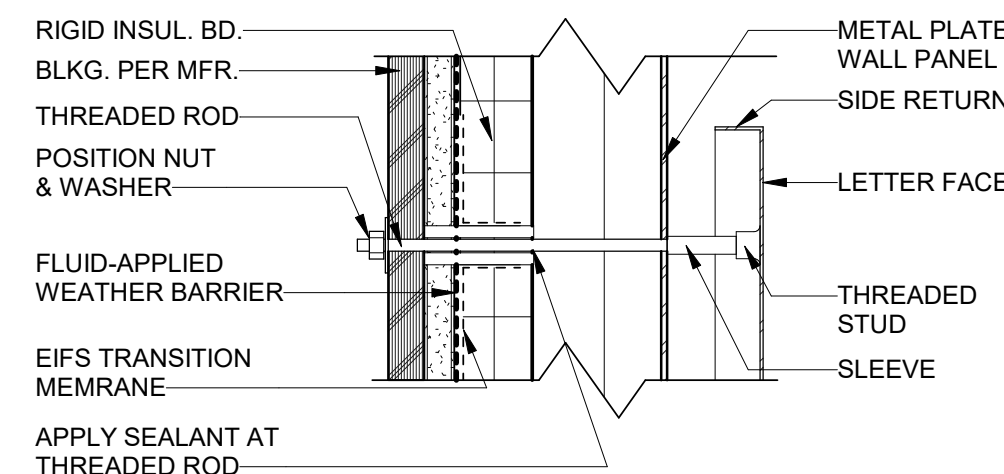
C1 CANOPY SIGN DETAIL

1/2" = 1'-0"

0 1' 2' 4'



- NOTES:
1. VERIFY COLORS WITH THE OWNER.
 2. OWNER TO PROVIDE ELECTRONIC COPY ACCURATELY DEPICTING ACTUAL LAYOUT FOR USE IN THE CREATION OF THE CREST.
 3. COLORS SHOWN ARE NOT ACTUAL COLORS, ONLY REPRESENTATIVE OF THE NUMBER DIFFERENT COLORS TO BE EXPECTED.



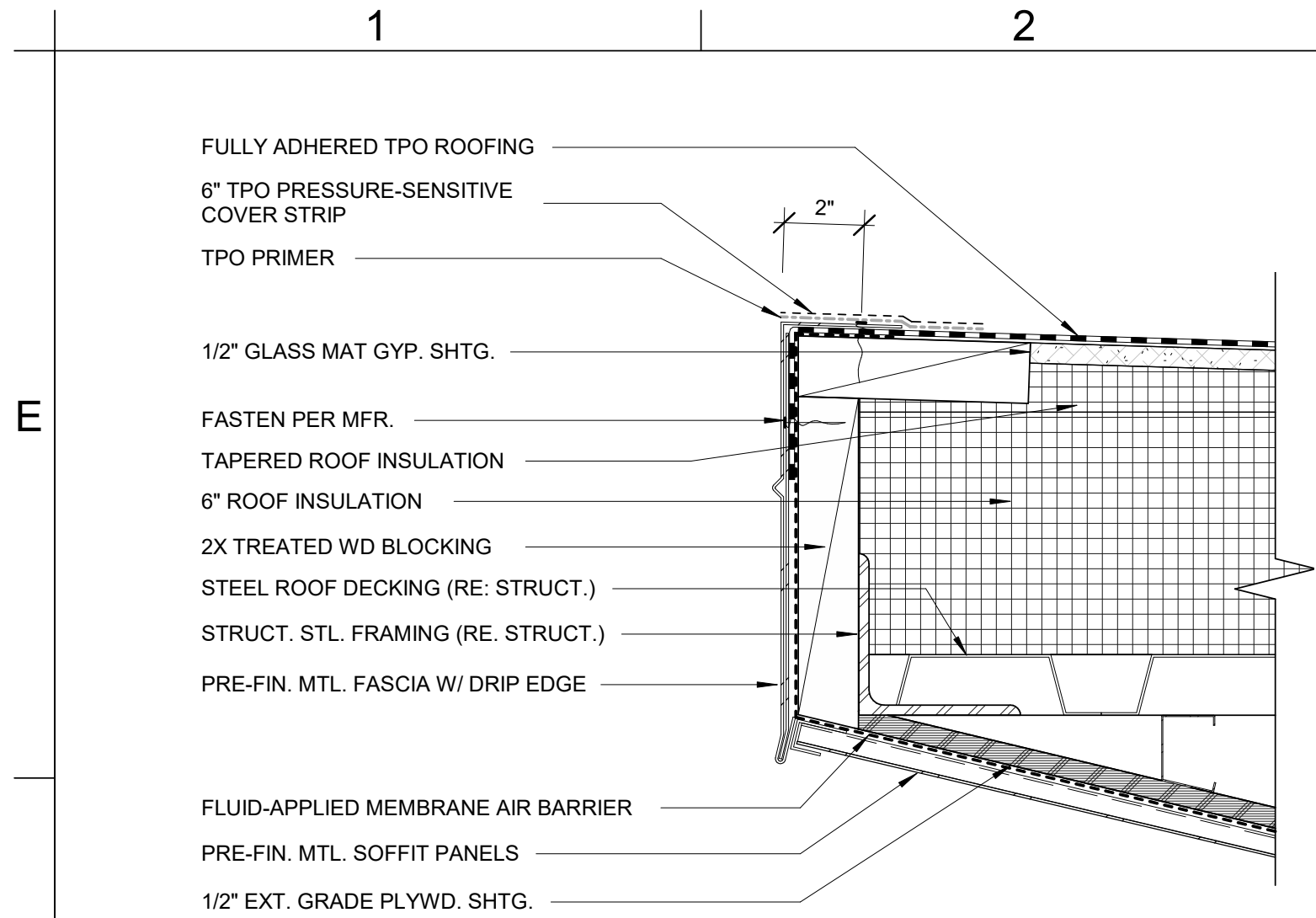
A1 FIRE DEPARTMENT CREST

1 1/2" = 1'-0"

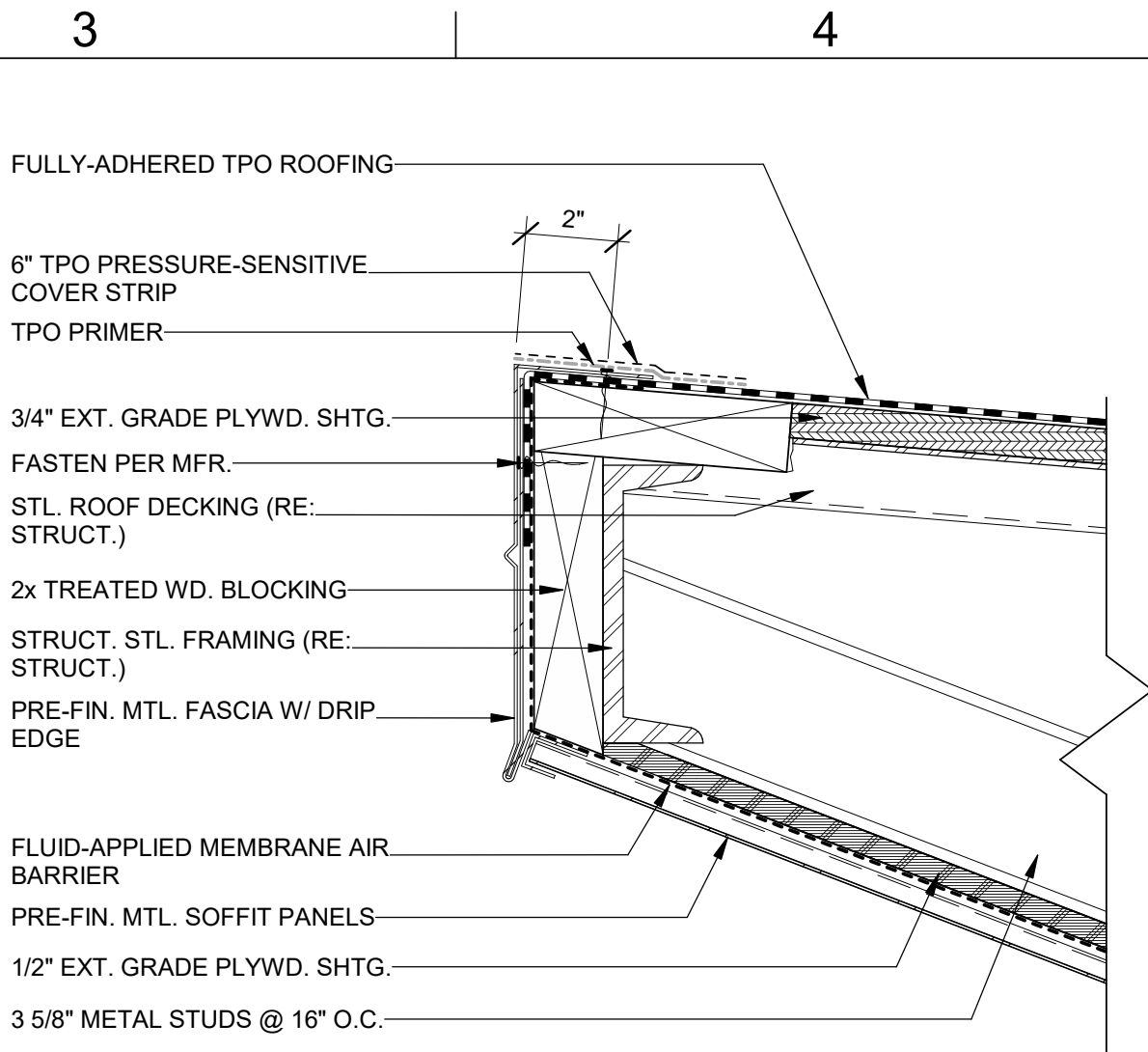
0 6" 1' 1'-6"

A4 3" = 1'-0"

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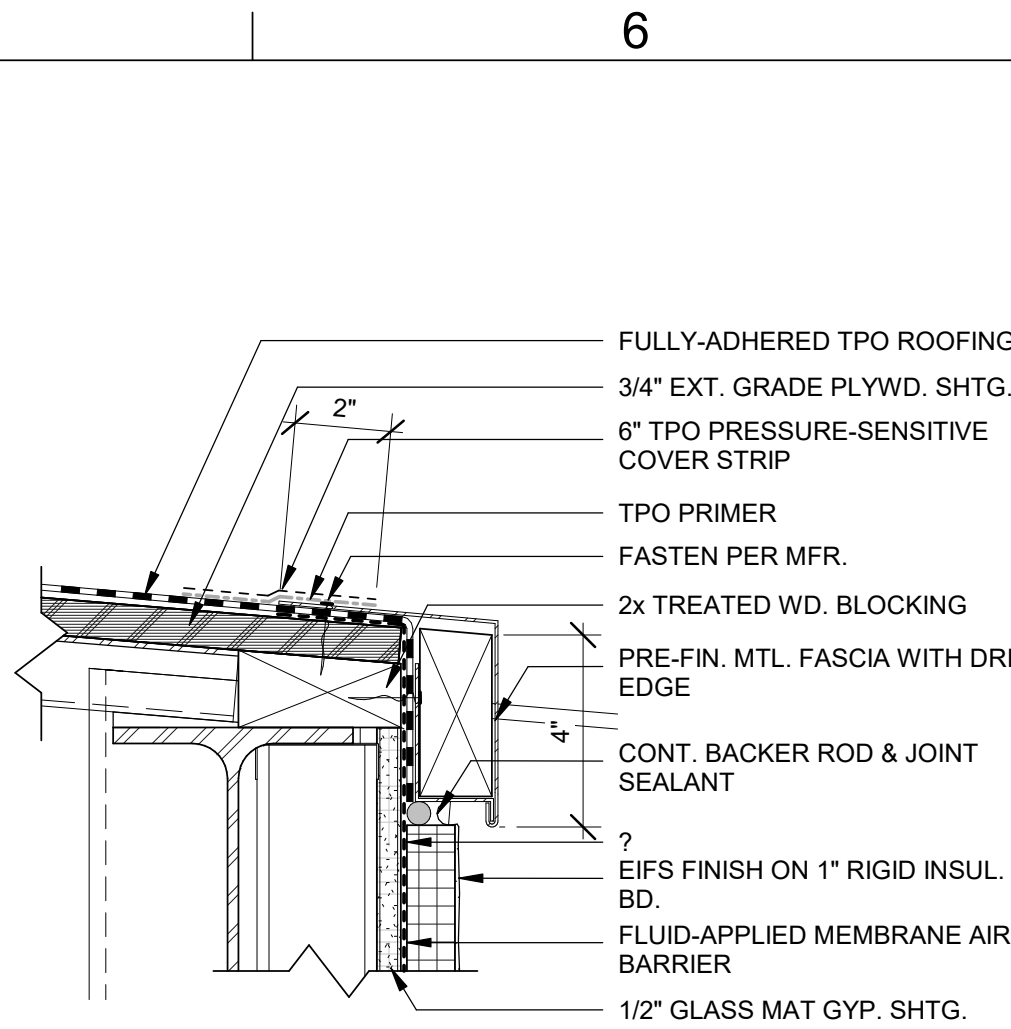
D1 ROOF - APP BAY (EAVE)
3" = 1'-0"



D3 ROOF EAVE DETAIL
3" = 1'-0"

DETAIL NOTES:

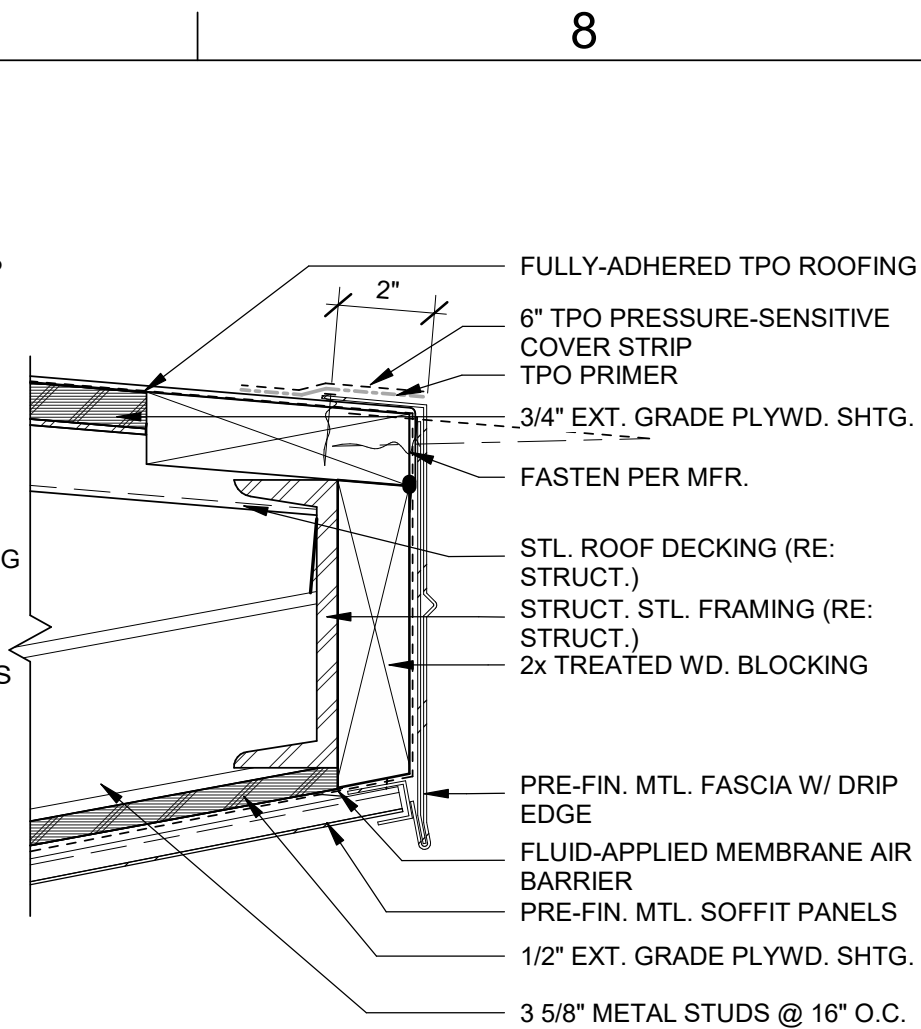
- METAL FASCIA DECK FLANGE TO BE COMPLETELY COVERED BY TPO PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" COVERAGE PAST NAIL HEADS.
- WOOD BLOCKING TO EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
- REMOVE ANY FINISHING OILS ON METAL FLASHING PER TPO MFR. (ALLOW TO DRY PRIOR TO APPLYING TPO PRIMER).
- METAL FASCIA FASTENER TYPE AND FASTENING FREQUENCY AS RECOMMENDED BY METAL FLASHING MANUFACTURER.



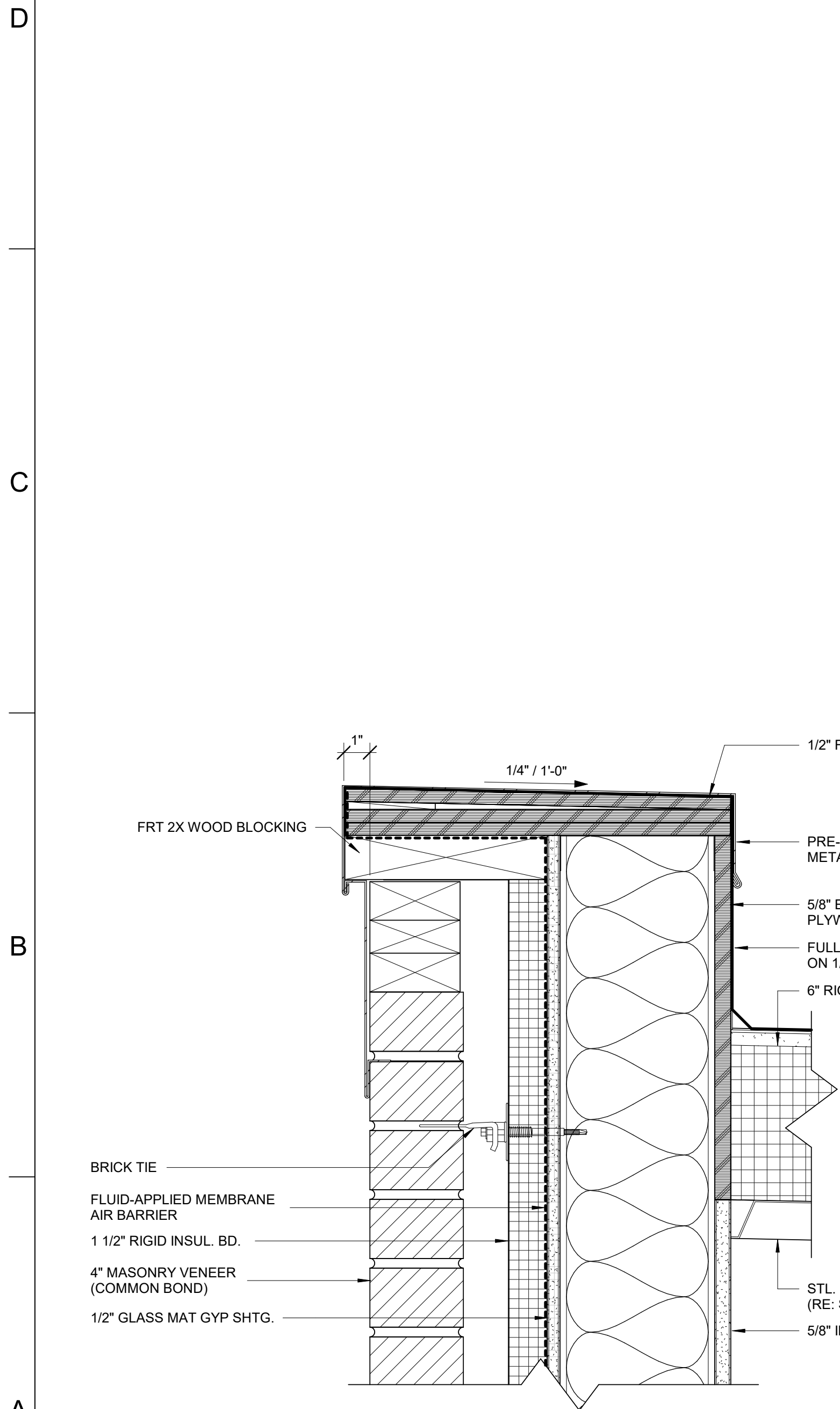
D5 ROOF EDGE DETAIL
3" = 1'-0"

DETAIL NOTES:

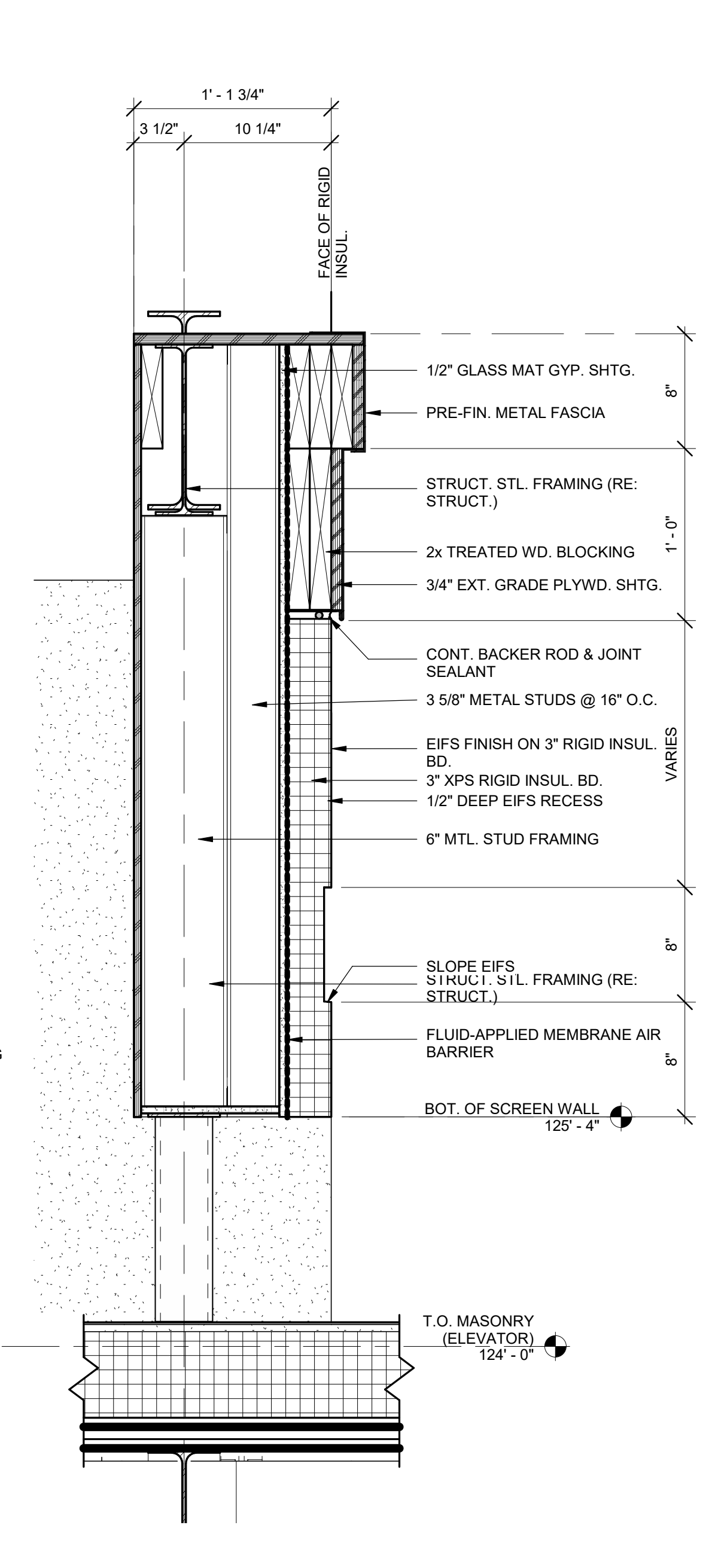
- METAL FASCIA DECK FLANGE TO BE COMPLETELY COVERED BY TPO PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" COVERAGE PAST NAIL HEADS.
- WOOD BLOCKING TO EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
- REMOVE ANY FINISHING OILS ON METAL FLASHING PER TPO MFR. (ALLOW TO DRY PRIOR TO APPLYING TPO PRIMER).
- METAL FASCIA FASTENER TYPE AND FASTENING FREQUENCY AS RECOMMENDED BY METAL FLASHING MANUFACTURER.



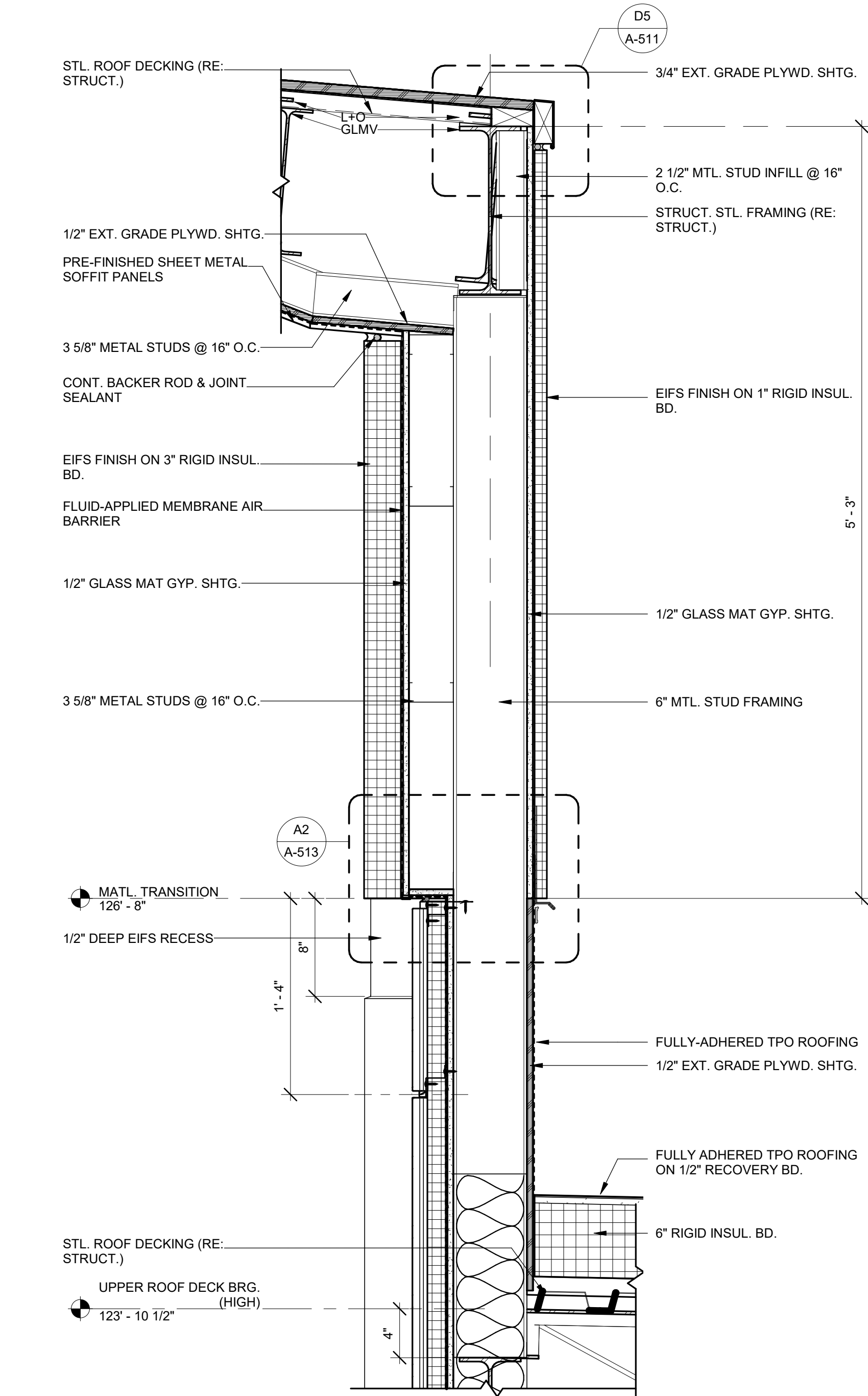
D7 ROOF EAVE DETAIL
3" = 1'-0"



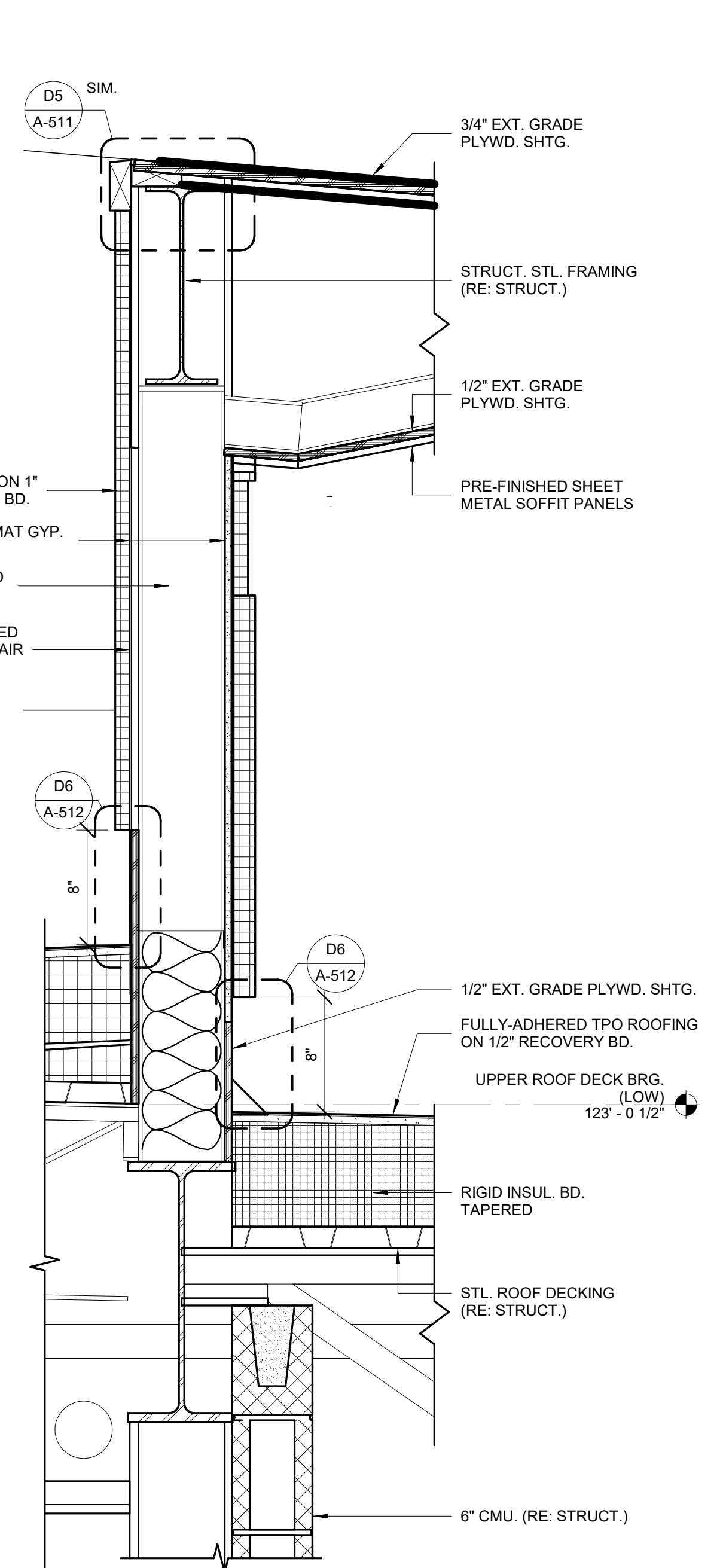
A1 PARAPET DETAIL
3" = 1'-0"



A3 MECHANICAL EQUIP. SCREEN
1 1/2" = 1'-0"



A5 FRONT ENTRY ROOF DETAIL
1 1/2" = 1'-0"



A7 FRONT ENTRY ROOF DETAIL
1 1/2" = 1'-0"

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MO# A-2009021701

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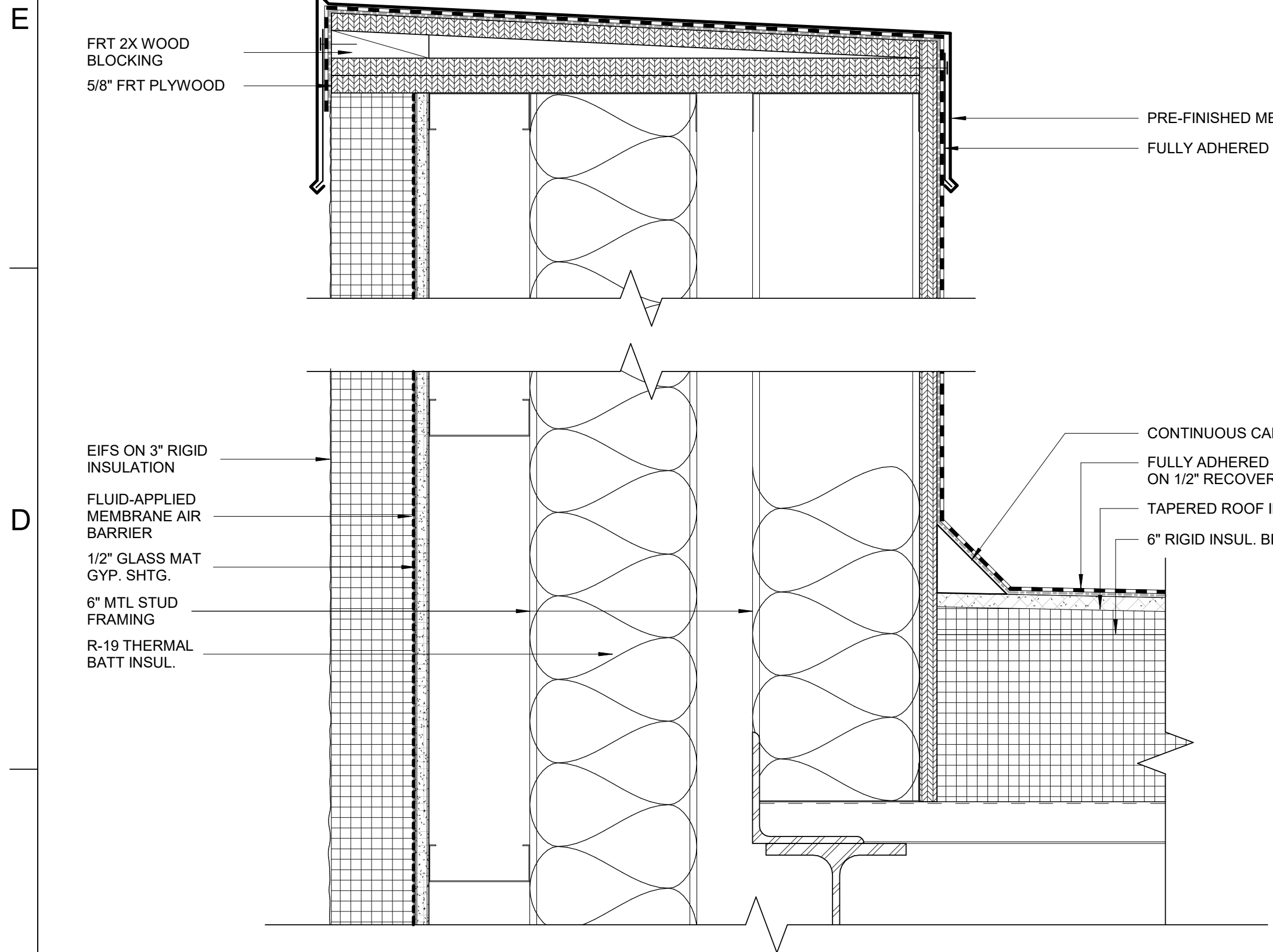
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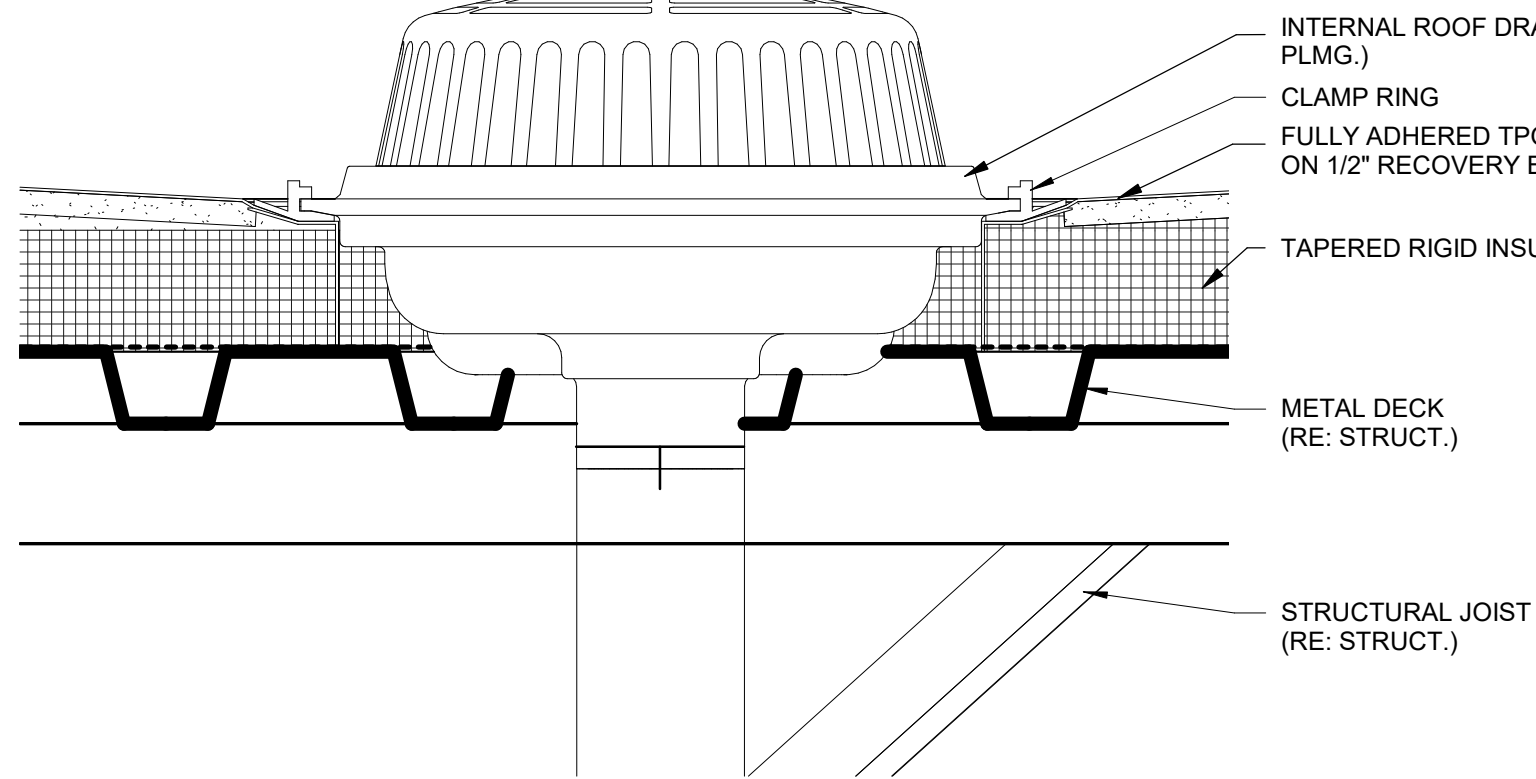
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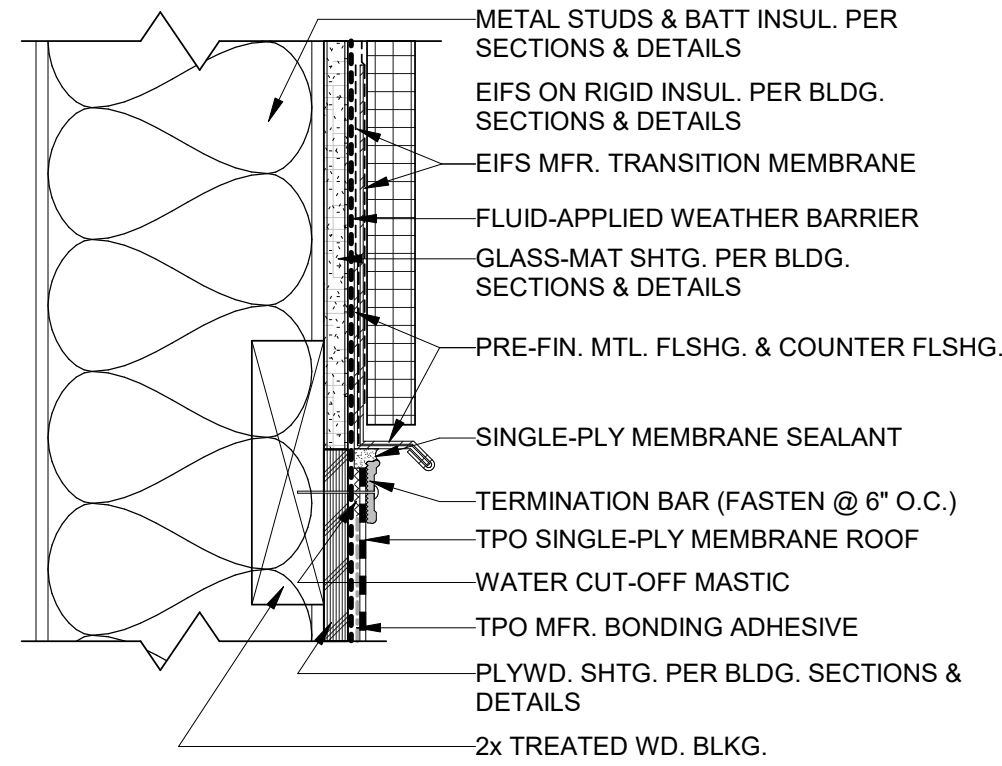
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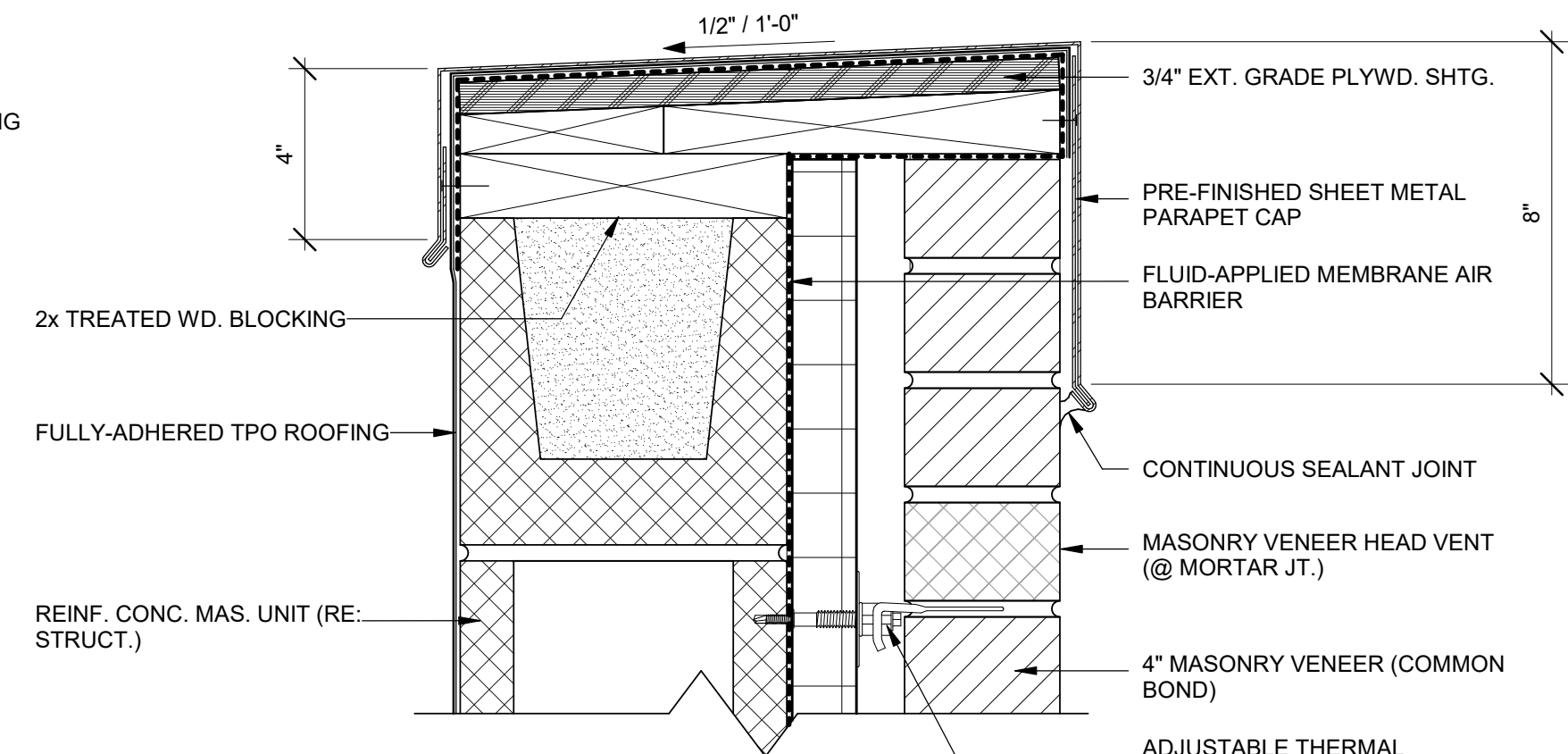
C1 PARAPET DETAIL



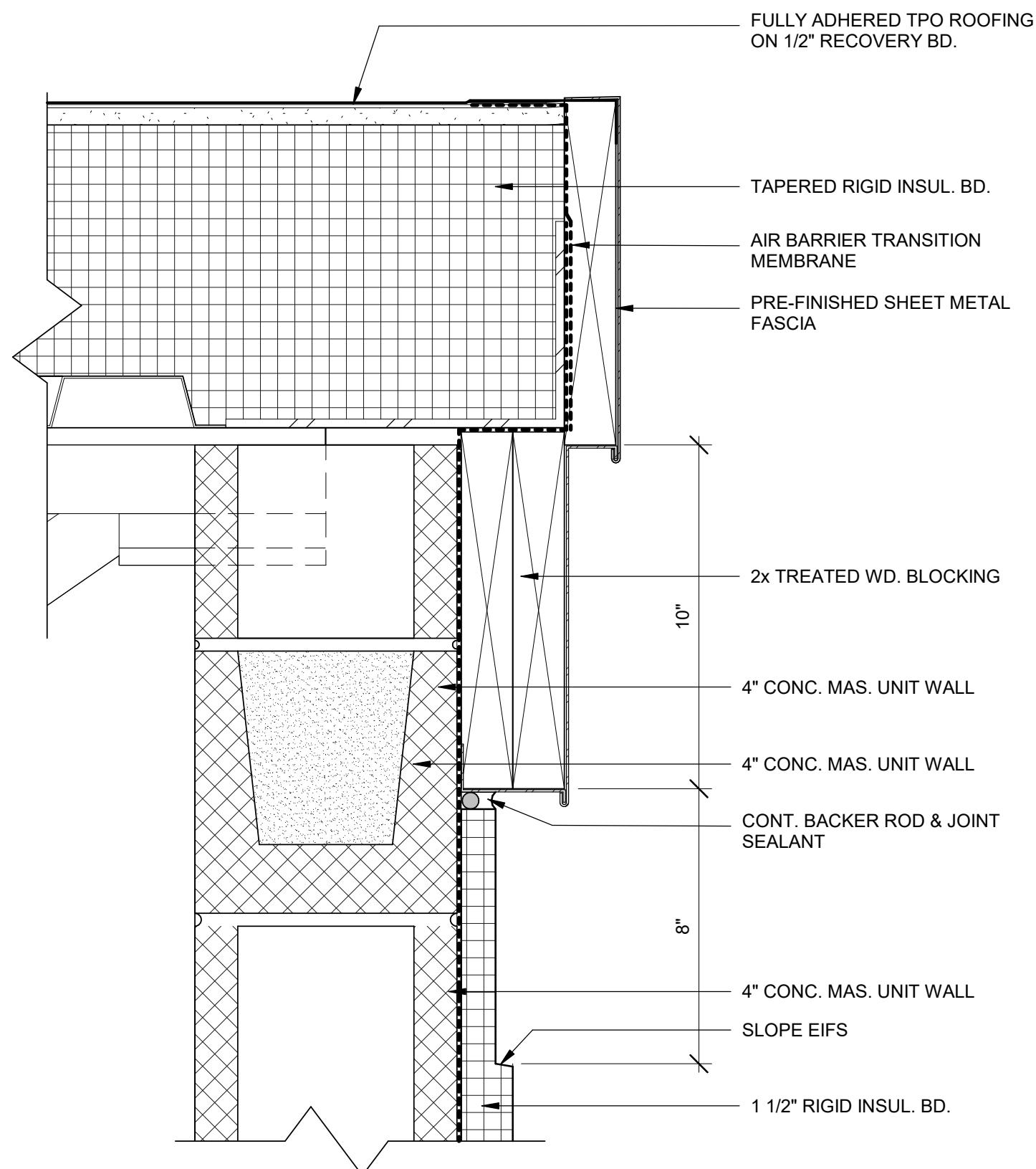
C3 ROOF DRAIN DETAIL



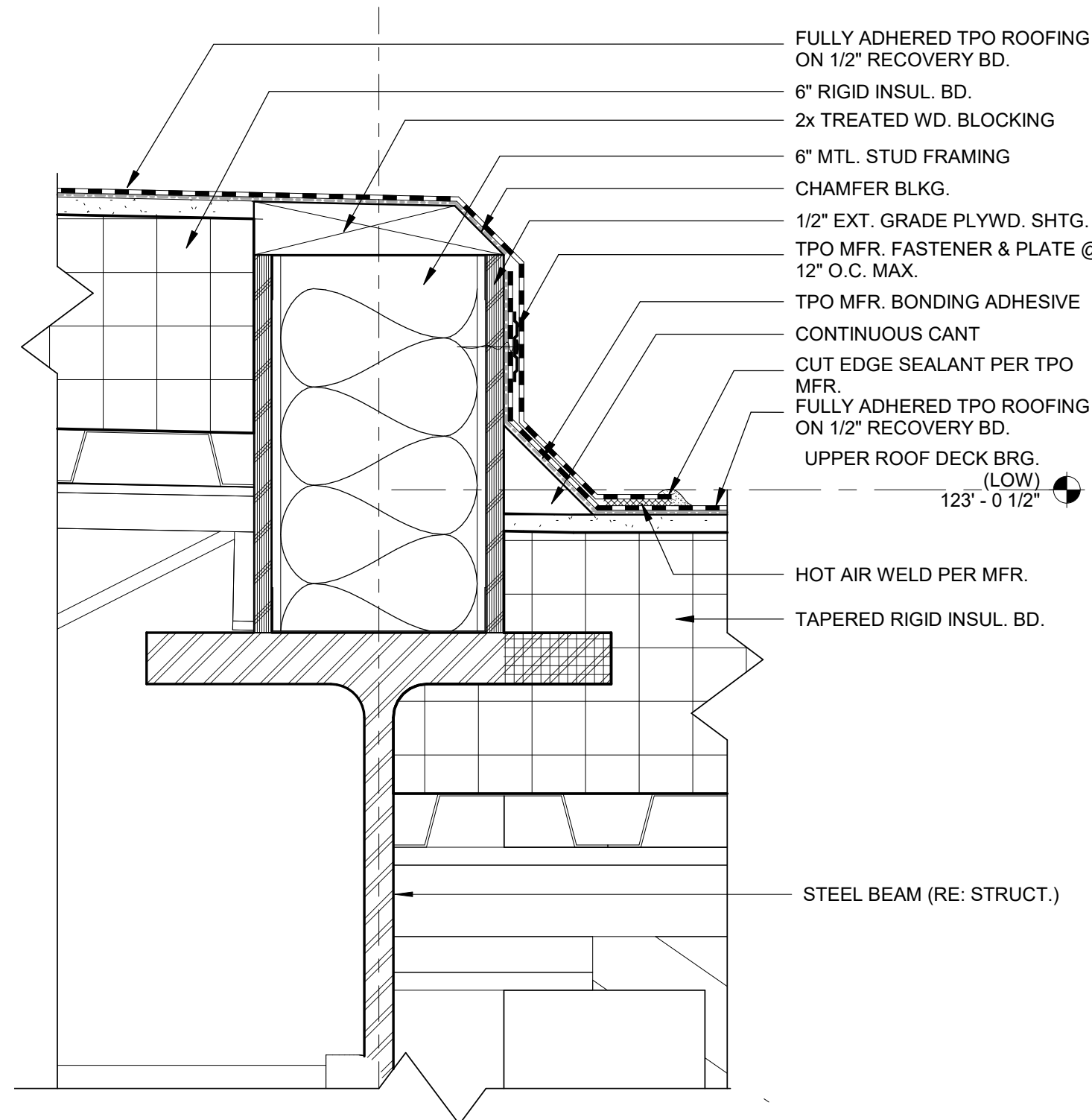
D6 ROOF TERMINATION DETAIL



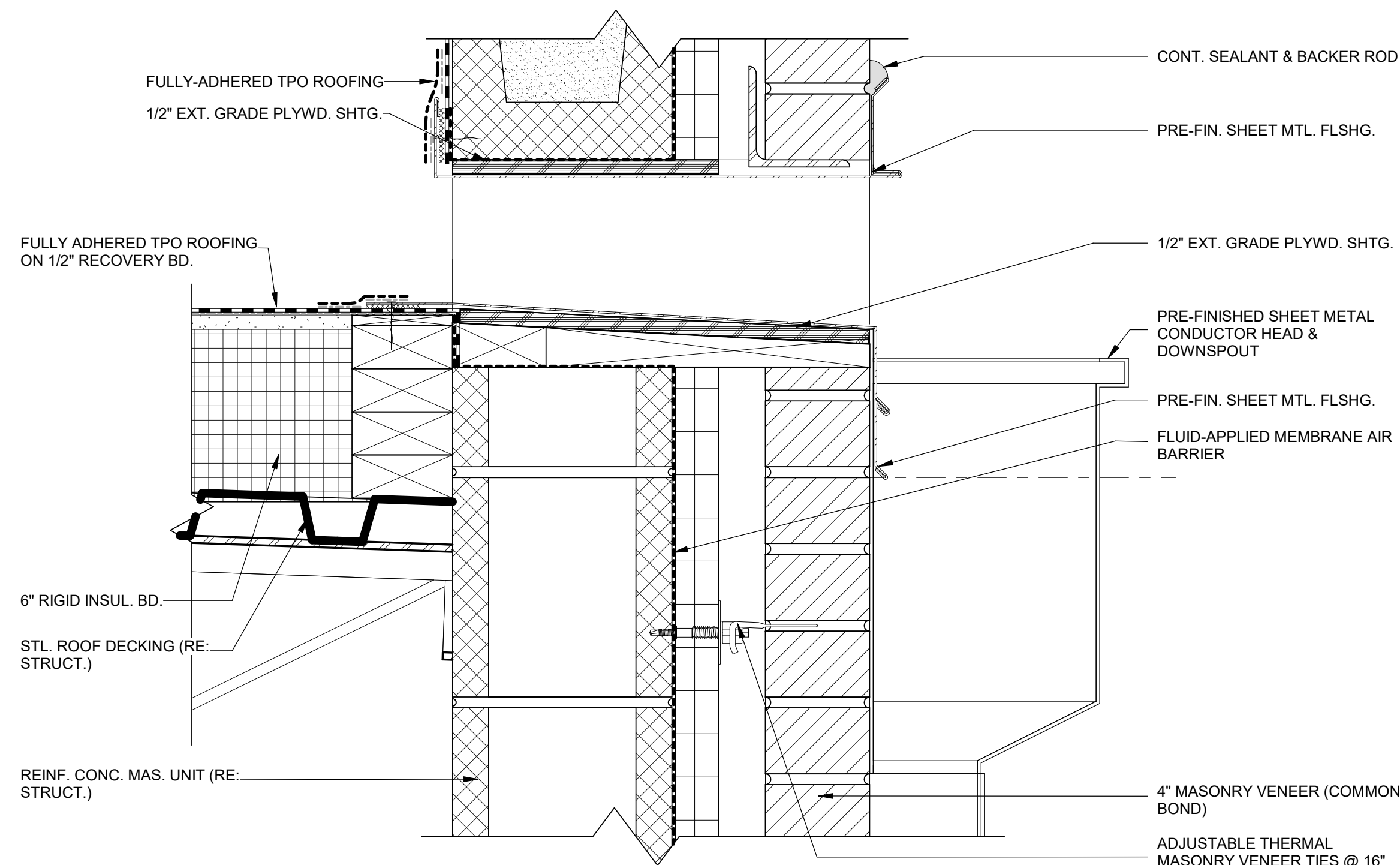
C6 PARAPET DETAIL



A1 ROOF RAKE EDGE DETAIL



A3 ROOF TRANSITION DETAIL



A6 SCUPPER DETAIL

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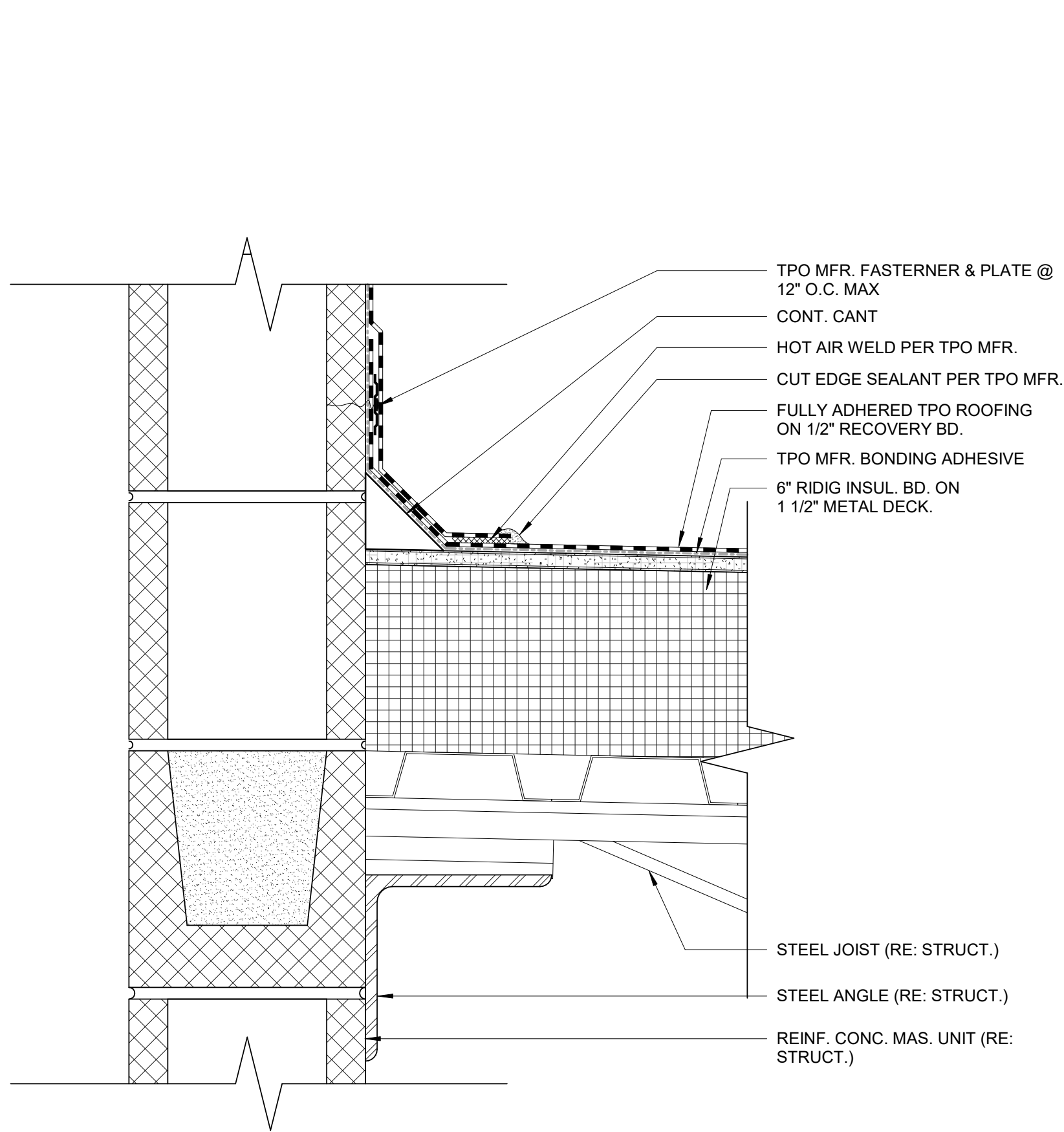
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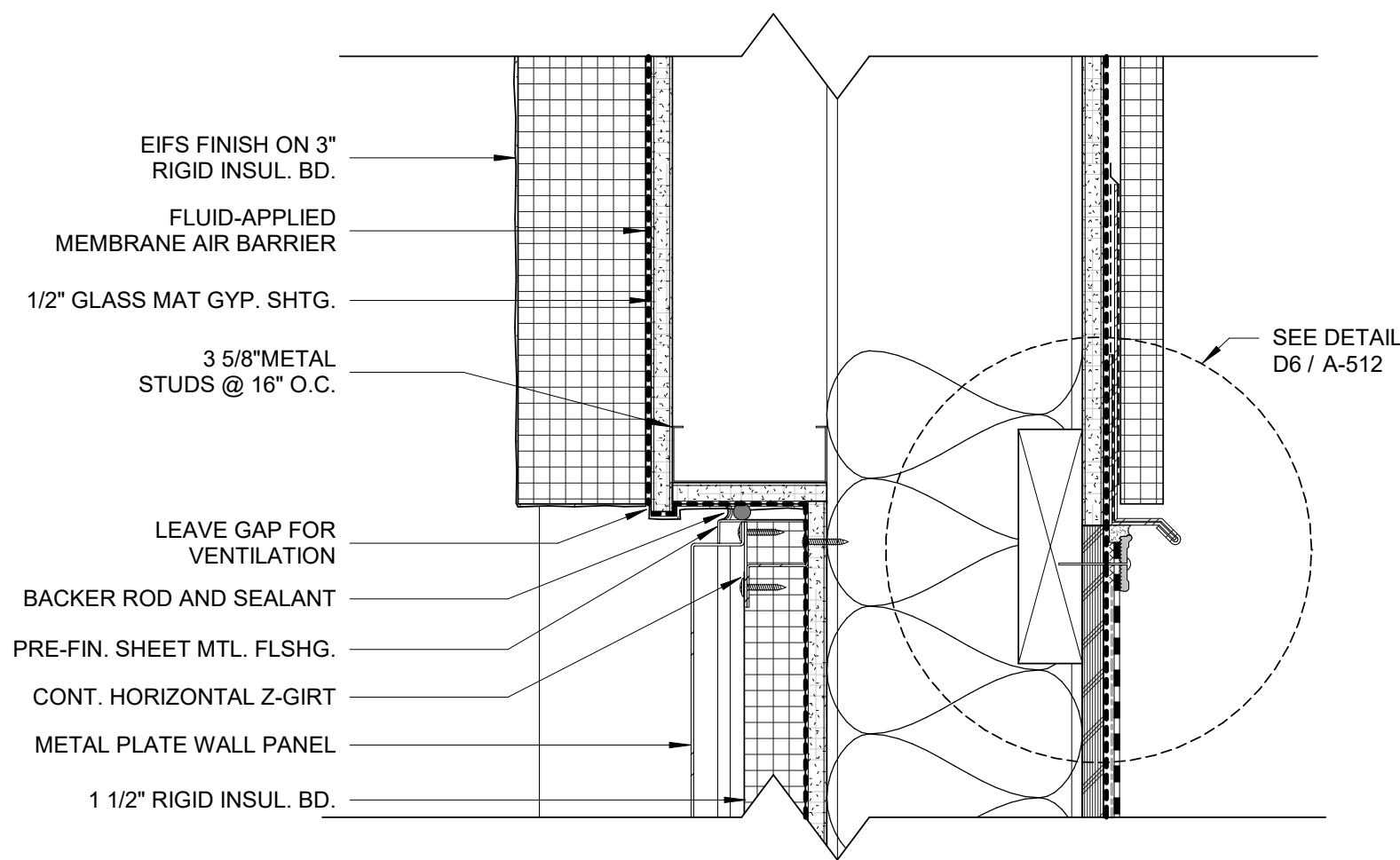
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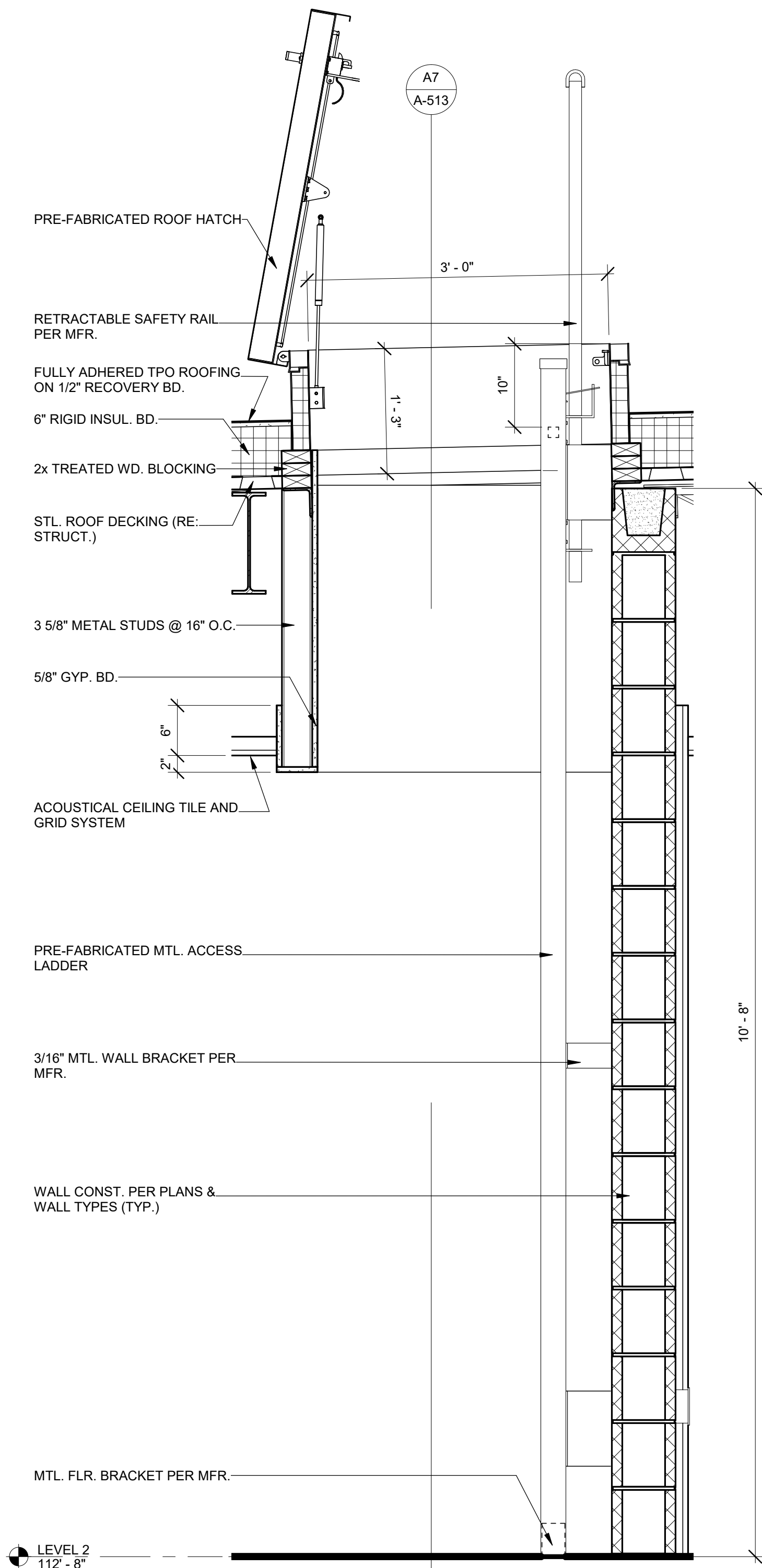
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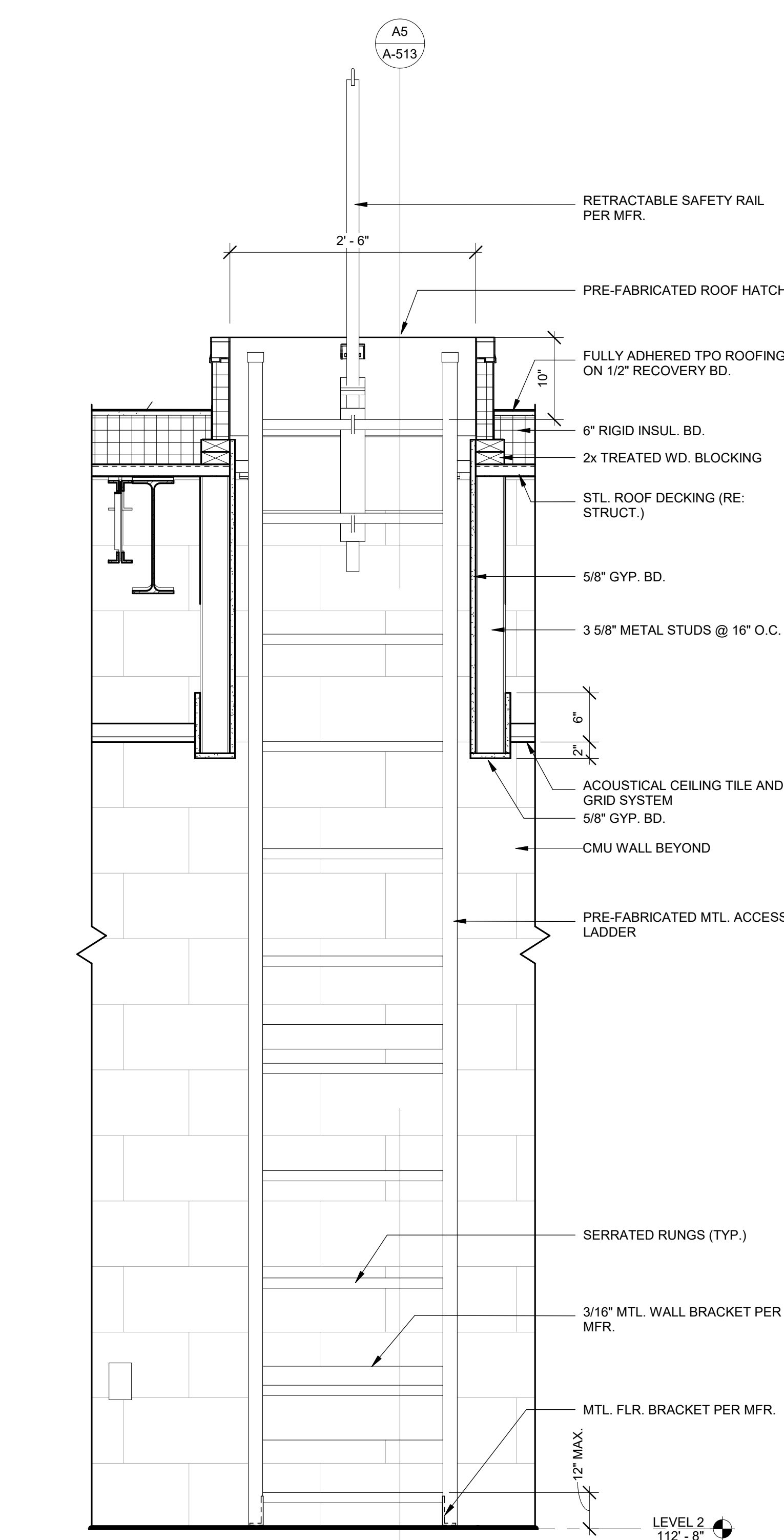
B2 WALL - CMU - VERT TRANS @ APP BAY
3' = 1'-0"



A2 EIFS TRANSITION DETAIL
3' = 1'-0"




A5 ROOF HATCH DETAIL
1' = 1'-0"



A7 ROOF HATCH DETAIL
1' = 1'-0"

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
01/10/2023



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**FIRE STATION #4
CITY OF LEE'S SUMMIT**
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

#	Description	Date



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MO# A-2009021701
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DATE:	11.21.2022
DRAWN BY:	KSK
CHK'D BY:	PJM

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ROOF DETAILS

A-513

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FILE PATH: B:\360-118225R21001_Lee'sSummitFireStation_# 4 and #5\LSMO FIRE STATIONS.rvt

E

D

C

B

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1

2

3

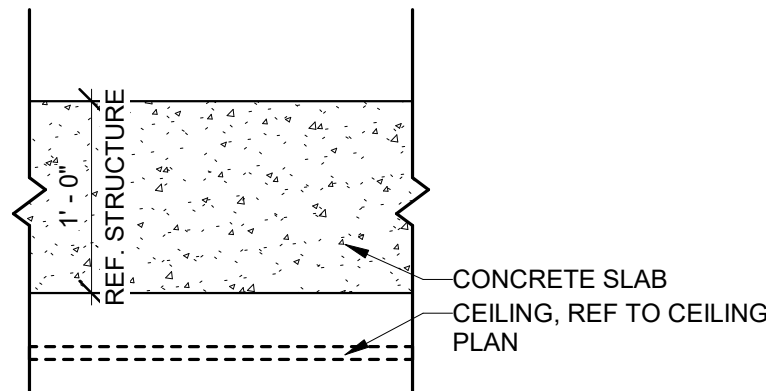
4

5

6

7

8



@ STORM SHELTER

E7 2 HR FLOOR / CEILING ASSEMBLY

1" = 1'-0"

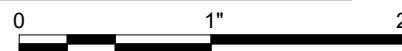
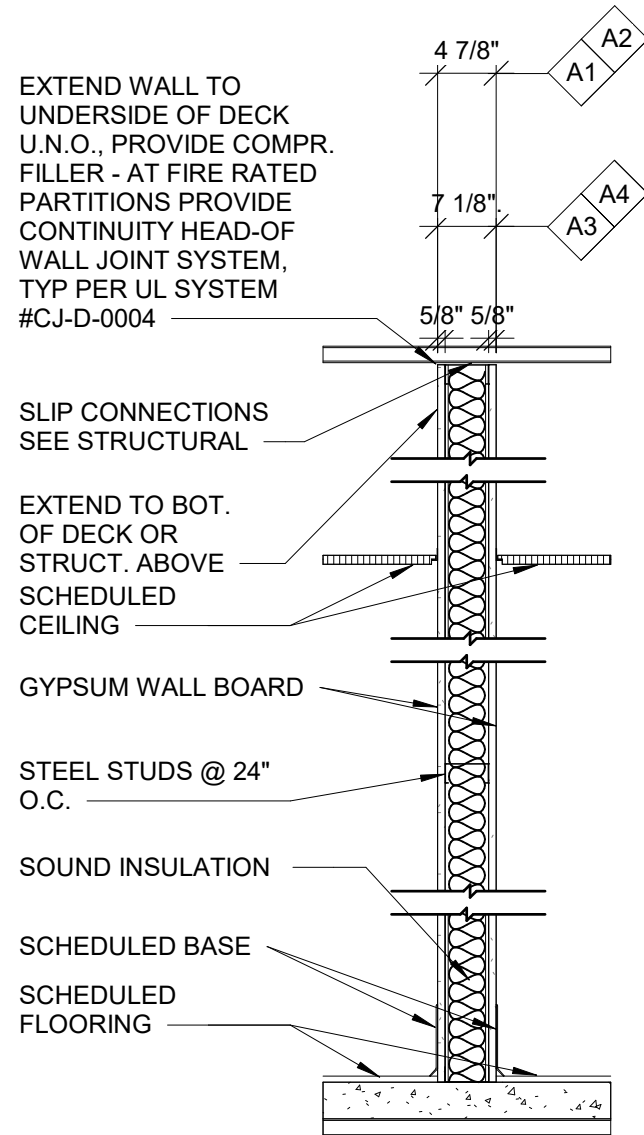
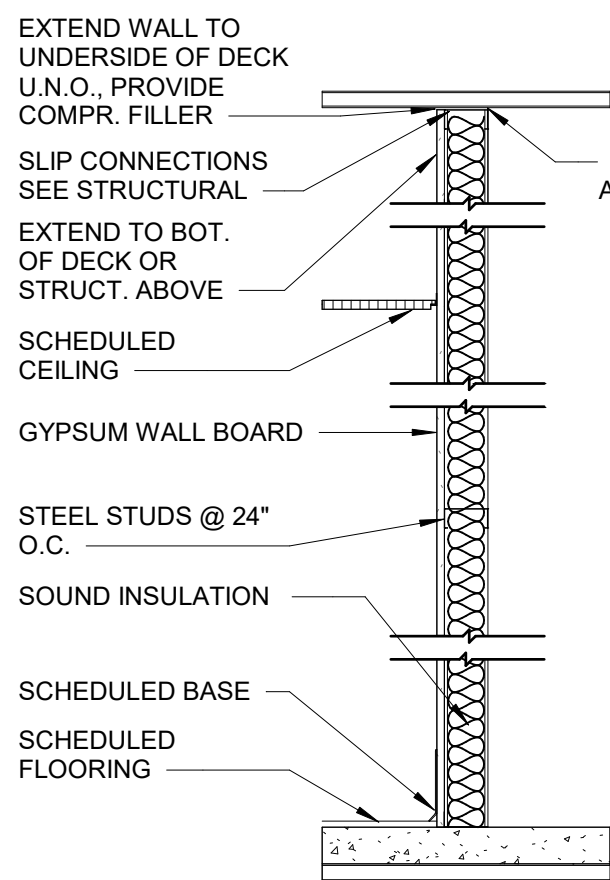


TABLE 722.2.2.1
MINIMUM SLAB THICKNESS (inches)

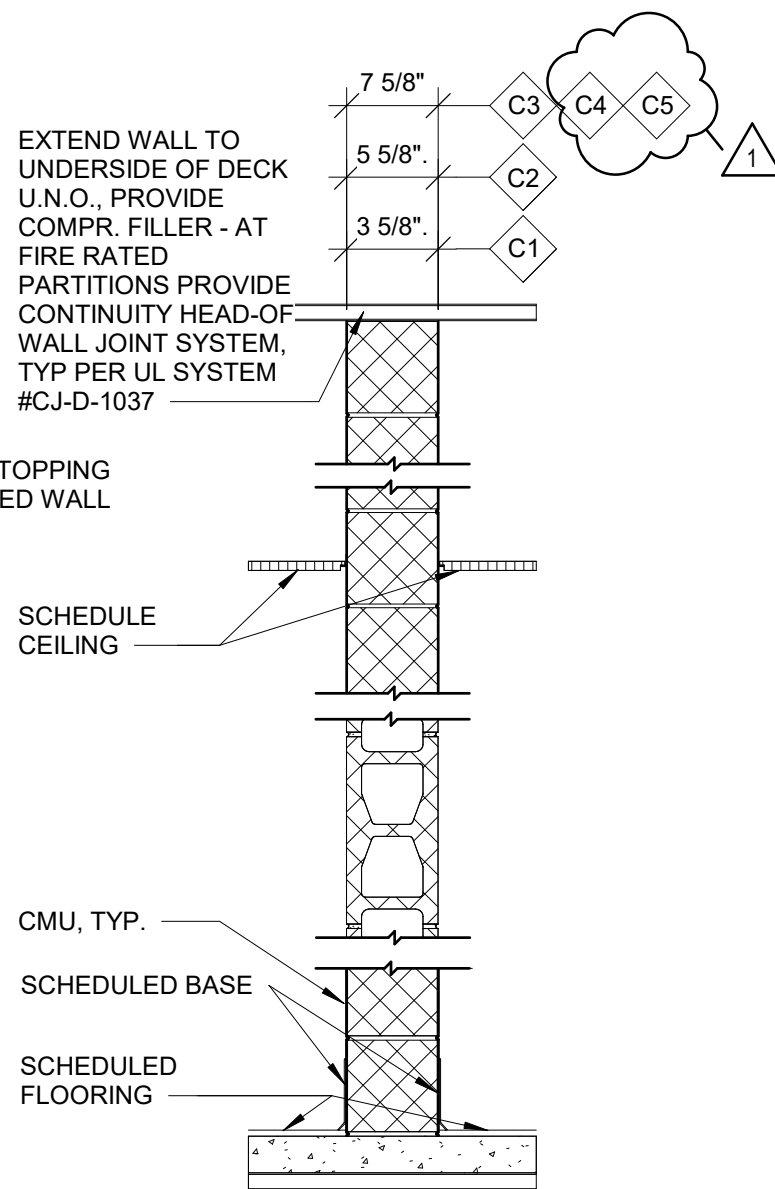
CONCRETE TYPE	FIRE-RESISTANCE RATING (hours)				
	1	1½	2	3	4
Siliceous	3.5	4.3	5	6.2	7
Carbonate	3.2	4	4.6	5.7	6.6
Sand-lightweight	2.7	3.3	3.8	4.6	5.4
Lightweight	2.5	3.1	3.6	4.4	5.1



- A1** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB EACH SIDE
- FINISH PER SCHEDULE
- A2** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419
- STC 48
- A3** 6" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB EACH SIDE
- FINISH PER SCHEDULE
- STC 44
- A4** 6" STEEL STUD PARTITION
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419
- A5** 6" STEEL STUD PARTITION
- 2 LAYERS 5/8" TYPE 'X' GWB ONE SIDE
- 1 LAYER 5/8" TYPE 'X' GWB ONE SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419



- B1** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB 1 SIDE
- B3** 1 5/8" MTL FURRING CHANNELS@ 24" O.C.
- 1 LAYER 5/8" GWB
- B4** 7/8" MTL FURRING CHANNELS@ 24" O.C.
- 1 LAYER 5/8" GWB
- B5** 6" MTL FURRING CHANNELS@ 24" O.C.
- 1 LAYER 5/8" GWB



- C1** 4" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- C2** 6" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- C3** 8" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- C4** 8" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U906
- C5** 8" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- 2 HR FIRE RATING PER UL DESIGN NO. - U906

A5 PARTITION TYPES

3/4" = 1'-0"



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MO# A-2009021701

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CHK'D BY: PJM

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PARTITION TYPES

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REVISONS:	#	Description	Date

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PAUL J. MICHELL
NUMBER
A-2009021701
1/21/22
ARCHITECT

STATE OF MISSOURI

PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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DATE: 11/21/2022
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CHKD BY: PJM

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UL DETAILS

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1 2 3 4 5 6 7 8

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSIUL 283 Certified for United States

BXUV7 - Fire Resistance Ratings - CANULC-S101 Certified for Canada
See General Information for Fire Resistance Ratings - ANSIUL 283 Certified for United States
Design Criteria and Allowable Variations

See General Information for Fire Resistance Ratings - ANSIUL-S101 Certified for Canada
Design Criteria and Allowable Variations

Design No. U419
September 13, 2019

Nonbearing Wall Ratings—1, 2, 3 or 4 Hr (See Items 4 & 3 through 5K)

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions
employing the UL or cUL Certification (such as Canada), respectively.

1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 26 MSG corrosion-protected steel, min depth to accommodate stud size, with 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartStud25™

MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

FUSION BUILDING PRODUCTS — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MBA METAL FRAMING — ProTrack

RAM SALES L L C — Ram ProTrack

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTrack

1F. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUCCO BUILDING SYSTEMS — CROSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel, attached to floor and ceiling with fasteners spaced max 24 in. OC max.
MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

FUSION BUILDING PRODUCTS — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Item 2H, channel shaped, fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

MBA METAL FRAMING — ProTrack

RAM SALES L L C — Ram ProTrack

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTrack

1J. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

MBA METAL FRAMING — ProTrack

RAM SALES L L C — Ram ProTrack

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTrack

1F. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members* — Floor and Ceiling Runner — (Not Shown, As an alternate to Item 1) — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUCCO BUILDING SYSTEMS — CROSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel, attached to floor and ceiling with fasteners spaced max 24 in. OC max.
MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

FUSION BUILDING PRODUCTS — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Item 2H, channel shaped, fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

MBA METAL FRAMING — ProTrack

RAM SALES L L C — Ram ProTrack

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTrack

1J. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

MBA METAL FRAMING — ProTrack

RAM SALES L L C — Ram ProTrack

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTrack

1K. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Item 2J, channel shaped, fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

MBA METAL FRAMING — ProTrack

RAM SALES L L C — Ram ProTrack

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTrack

1L. Framing Members* — Floor and Ceiling Runner — (Not Shown) — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

MBA METAL FRAMING — ProTrack

RAM SALES L L C — Ram ProTrack

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTrack

edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 3) by 1-1/4 in. long leg (see free offer) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only. Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Stud stud depth shall be a minimum 3-5/8 in.
UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX

USO BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only. Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall				
Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)	Options
1	1-5/8	2 layers, 1/2 in. thick	Optional	
2	1-5/8	2 layers, 5/8 in. thick	Optional	
3	1-5/8	3 layers, 1/2 in. thick	Optional	
3	1-5/8	3 layers, 5/8 in. thick	Optional	
4	1-5/8	4 layers, 5/8 in. thick	Optional	
4	1-5/8	4 layers, 1/2 in. thick	Optional	

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or 3/4 in. thick Types IP-X3 or ULTRACODE

2B. Framing Members* — Steel Studs — (As an alternate to Item 2. For use with Items SC, 3/4 or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with 1-1/8 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud25™

MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper25™

FUSION BUILDING PRODUCTS — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Studs cut 3/8 in. to 3/4 in. in lengths than assembly height.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper20™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Studs cut 3/8 in. to 3/4 in. in lengths than assembly height.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper20™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2E. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Studs cut 3/8 in. to 3/4 in. in lengths than assembly height.
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MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper20™

FUSION BUILDING PRODUCTS — Viper20™

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2F. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Studs cut 3/8 in. to 3/4 in. in lengths than assembly height.
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IMPERIAL MANUFACTURING GROUP INC — Viper20™

2G. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Studs cut 3/8 in. to 3/4 in. in lengths than assembly height.
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IMPERIAL MANUFACTURING GROUP INC — Viper20™

2H. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Studs cut 3/8 in. to 3/4 in. in lengths than assembly height.
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IMPERIAL MANUFACTURING GROUP INC — Viper20™

2I. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Studs cut 3/8 in. to 3/4 in. in lengths than assembly height.
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FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2J. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Studs cut 3/8 in. to 3/4 in. in lengths than assembly height.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper20™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2K. Framing Members* — Steel Studs — (As an alternate to Item 2) — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper20™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2L. Framing Members* — Steel Studs — (As an alternate to Item 2) — For use with Item 1, channel shaped studs, fabricated from min 23 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

MARINOWARE, DIV OF WARE INDUSTRIES INC — StudRite™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2M. Framing Members* — Steel Studs — (As an alternate to Item 2) — For use with Item 1, channel shaped studs, fabricated from min 23 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINOWARE, DIV OF WARE INDUSTRIES INC — StudRite™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2N. Framing Members* — Steel Studs — (As an alternate to Item 2) — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINOWARE, DIV OF WARE INDUSTRIES INC — StudRite™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2O. Framing Members* — Steel Studs — (As an alternate to Item 2) — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINOWARE, DIV OF WARE INDUSTRIES INC — StudRite™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2P. Framing Members* — Steel Studs — (As an alternate to Item 2) — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINOWARE, DIV OF WARE INDUSTRIES INC — StudRite™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2Q. Framing Members* — Steel Studs — (As an alternate to Item 2) — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINOWARE, DIV OF WARE INDUSTRIES INC — StudRite™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2R. Framing Members* — Steel Studs — (As an alternate to Item 2) — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINOWARE, DIV OF WARE INDUSTRIES INC — StudRite™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2S. Framing Members* — Steel Studs — (As an alternate to Item 2) — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINOWARE, DIV OF WARE INDUSTRIES INC — StudRite™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2T. Framing Members* — Steel Studs — (As an alternate to Item 2) — Proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINOWARE, DIV OF WARE INDUSTRIES INC — StudRite™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2O. Framing Members* — Steel Studs — (As an alternate to Item 2) — Proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. Framing Members* — Steel Studs — (As an alternate to Item 2) — Proprietary channel shaped steel studs, min width as indicated under Item 5, min 26 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEGB BUILDING MATERIALS — OEGB Stud

2Q. Framing Members* — Steel Studs — (Not Shown) — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. Wood Structural Panel Sheathing — (Optional. For use with Item 5 Only) — (Not Shown) — 4 in. wide, 7/16 in. thick oriented strand board (OSB) or 1/2 in. thick structural 1 sheathing (plywood) complying with DCC P81 or PS2, or APA Standard PRG-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.282 in. in OC, in the perimeter and 12 in. OC in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, fiction fitted between studs and runners. Min nom thickness as indicated under Item 5.

See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

</

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E

D

C

B

A

UL Product iQ®

BXUV.U906 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design Criteria and Allowable Variances

Design No. U906

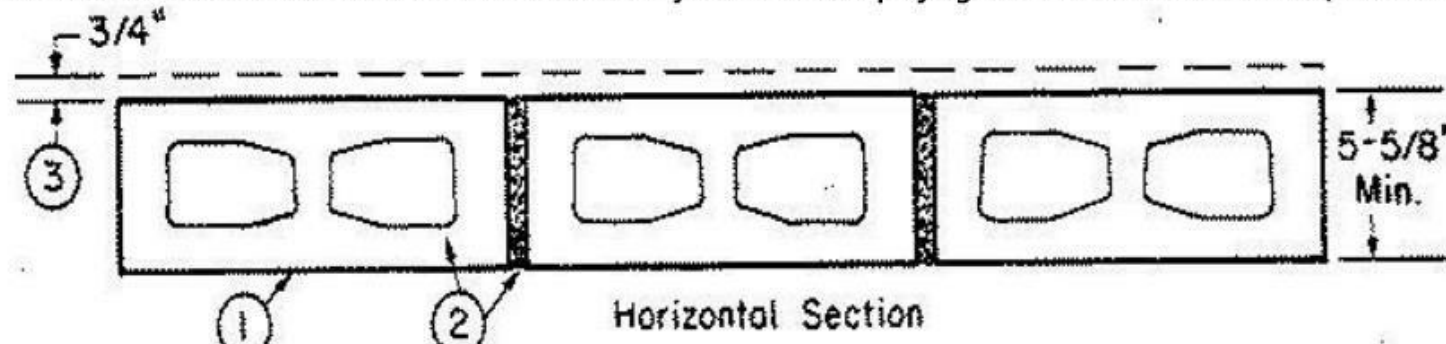
June 6, 2022

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Concrete Blocks*** — Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.

ANCHOR CONCRETE PRODUCTS INC

GAGNE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS

WESTBROOK CONCRETE BLOCK CO INC

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. **Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. **Foamed Plastic*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci 286", "Xci Foil (Class A)"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

4A. **Building Units*** — As an alternate to Item 4, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASecI", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply"

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2022-06-06

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FIRE STATION #4
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LEE'S SUMMIT, MISSOURI 64064

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#	Description	Date
1	ASB 01	11/21/2022



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MO# A-2009021701

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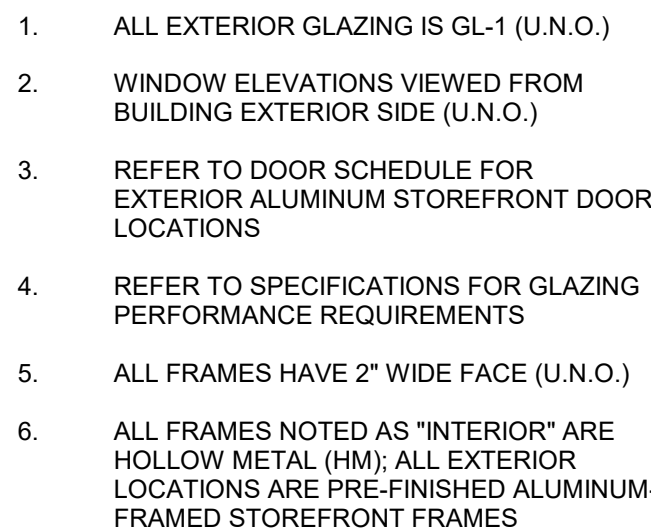
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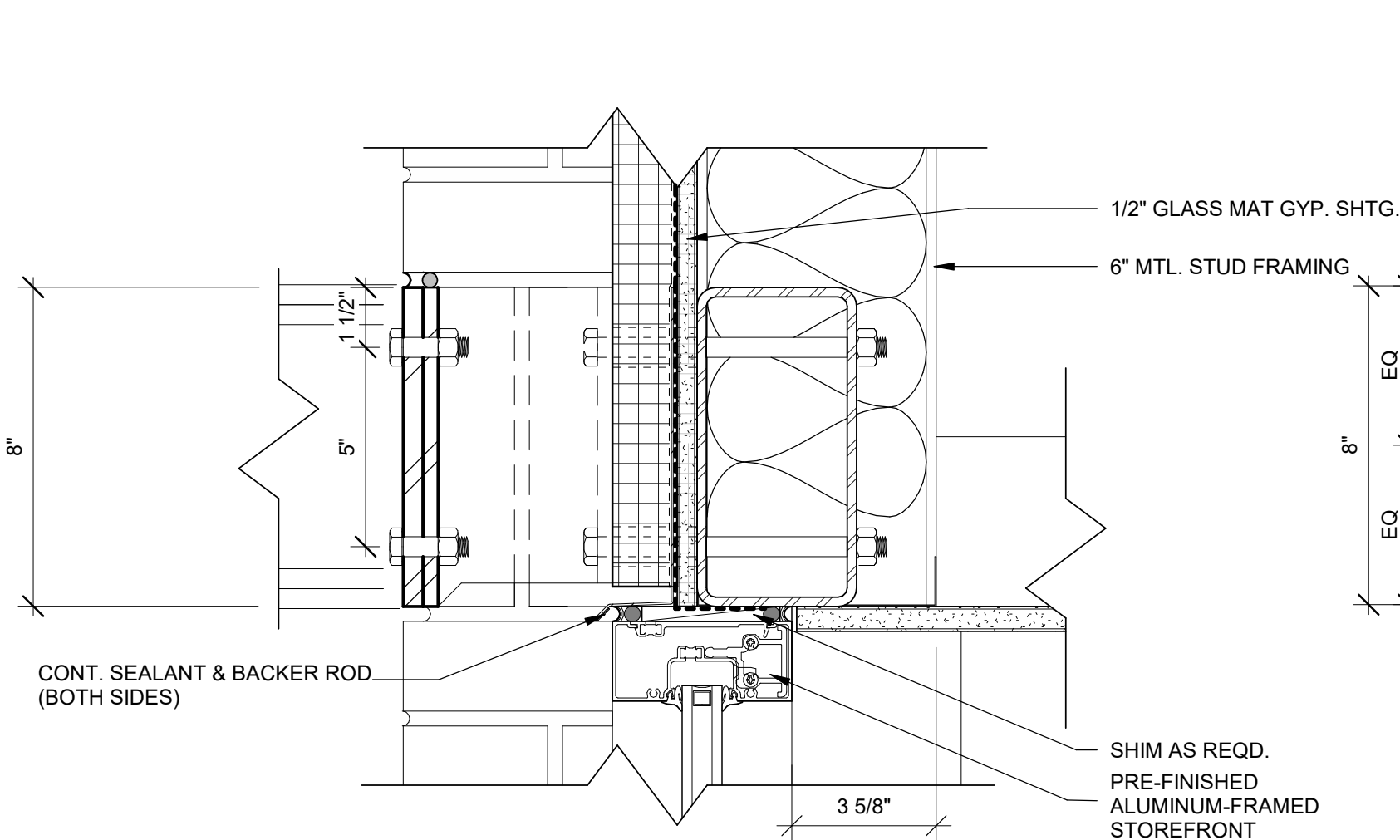
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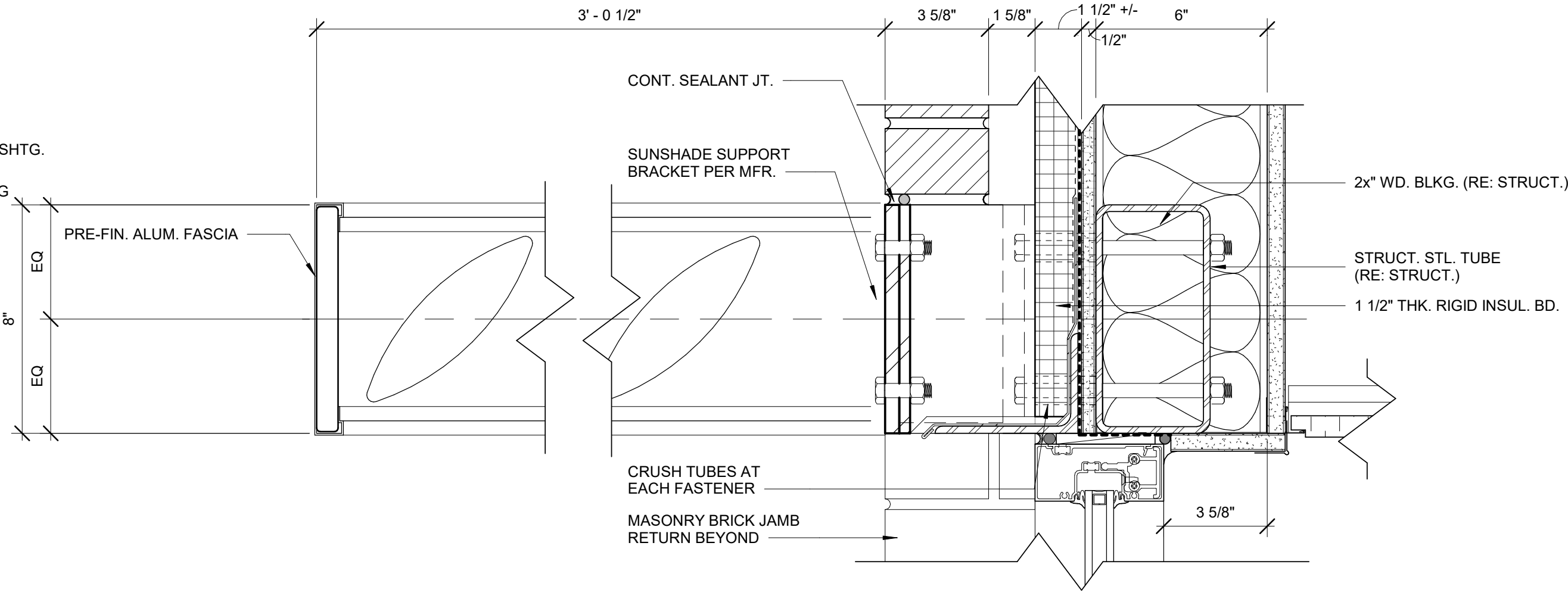


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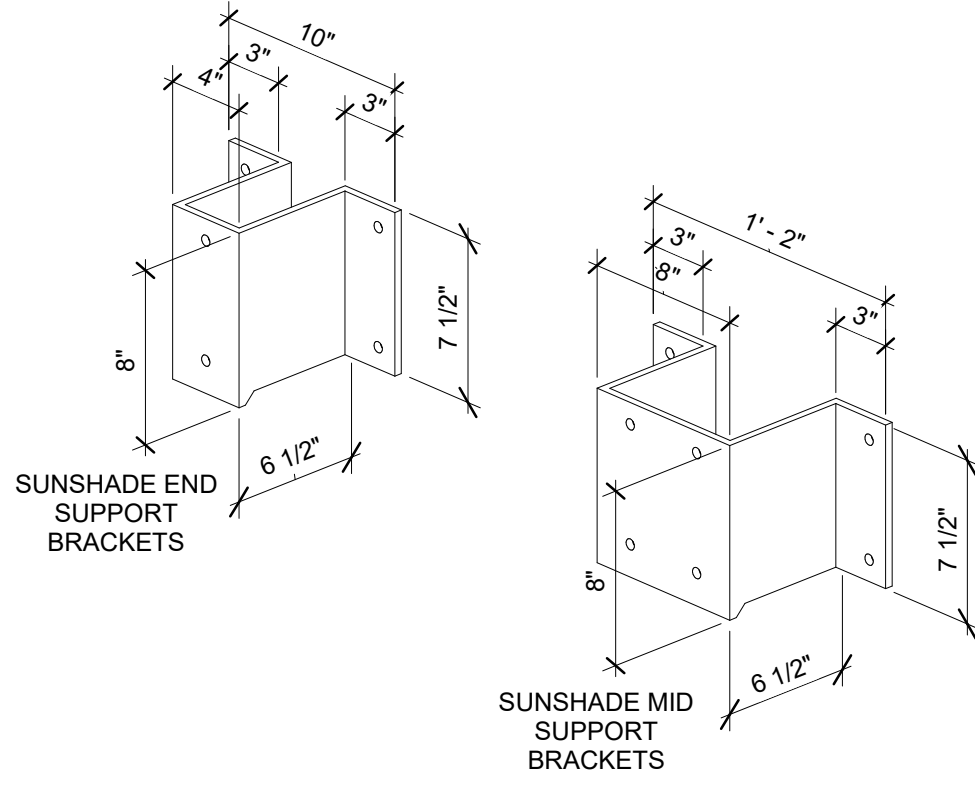
C1 WINDOW HEAD DETAIL @ EIFS



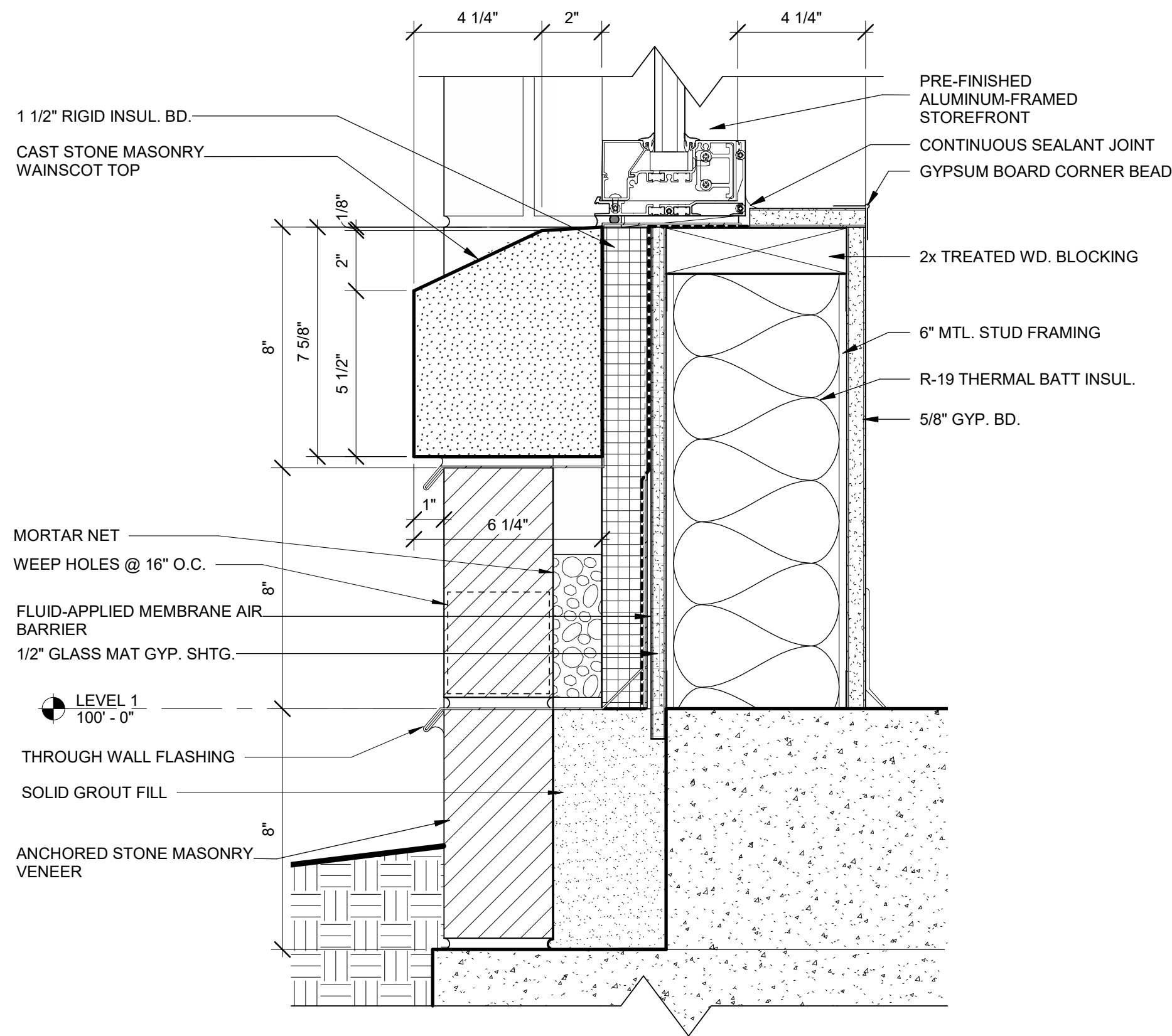
C4 WINDOW HEAD DETAIL @ MASONRY



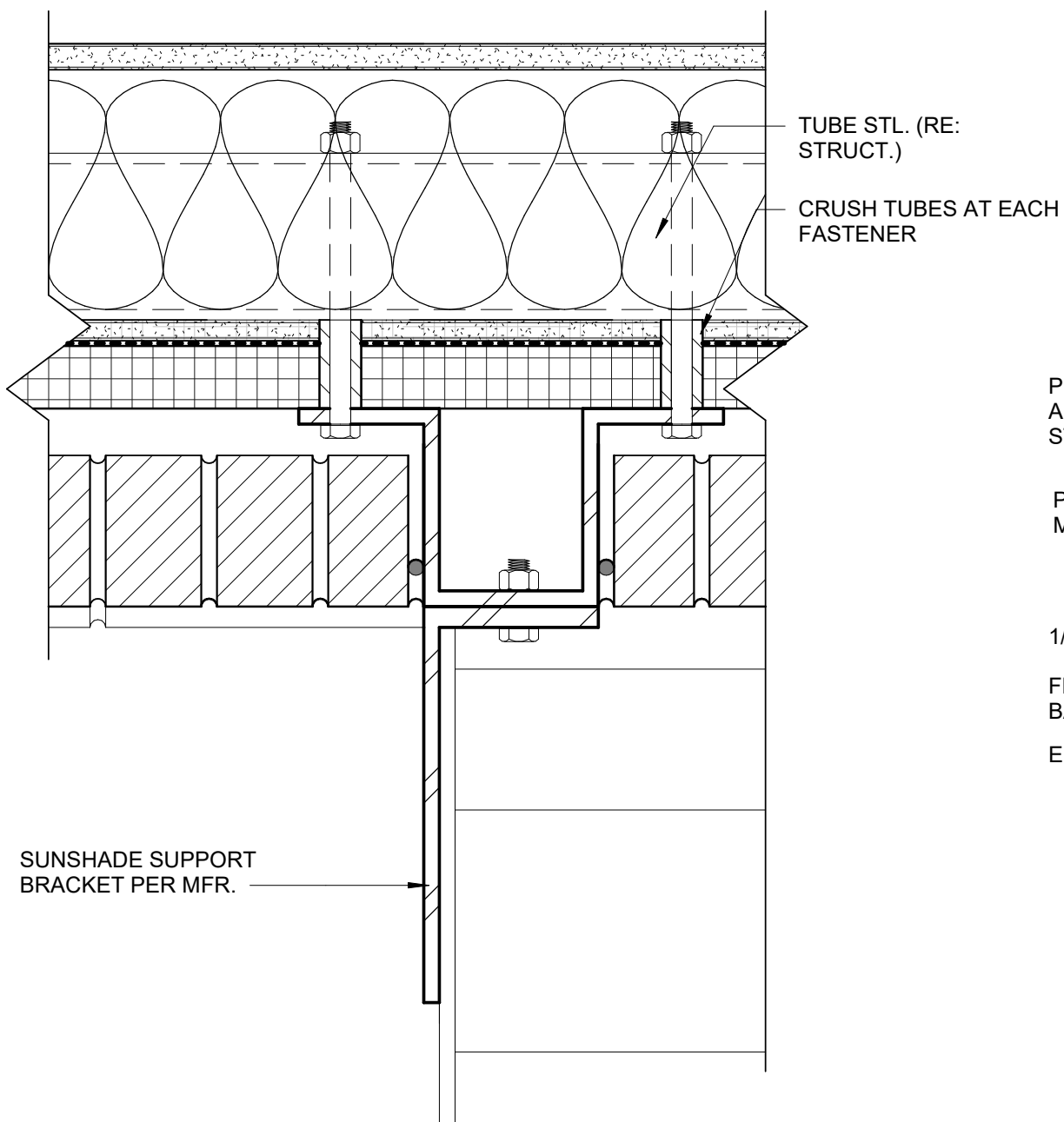
C7 SUNSHADE BRACKET



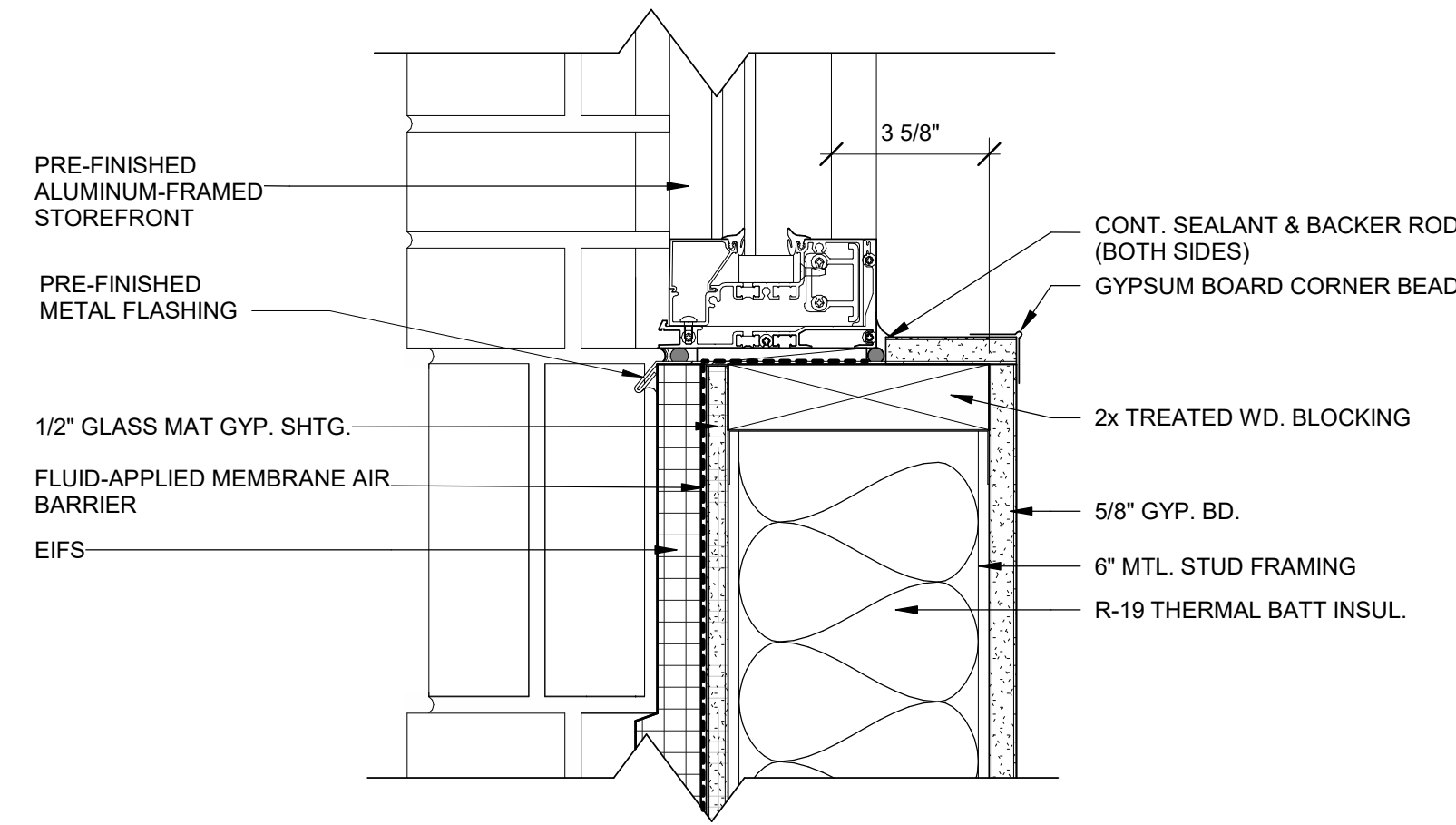
A1 WINDOW SILL DETAIL



A3 SUNSHADE PLAN DETAIL



A5 WINDOW SILL @ EIFS



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CITY OF LEE'S SUMMIT**
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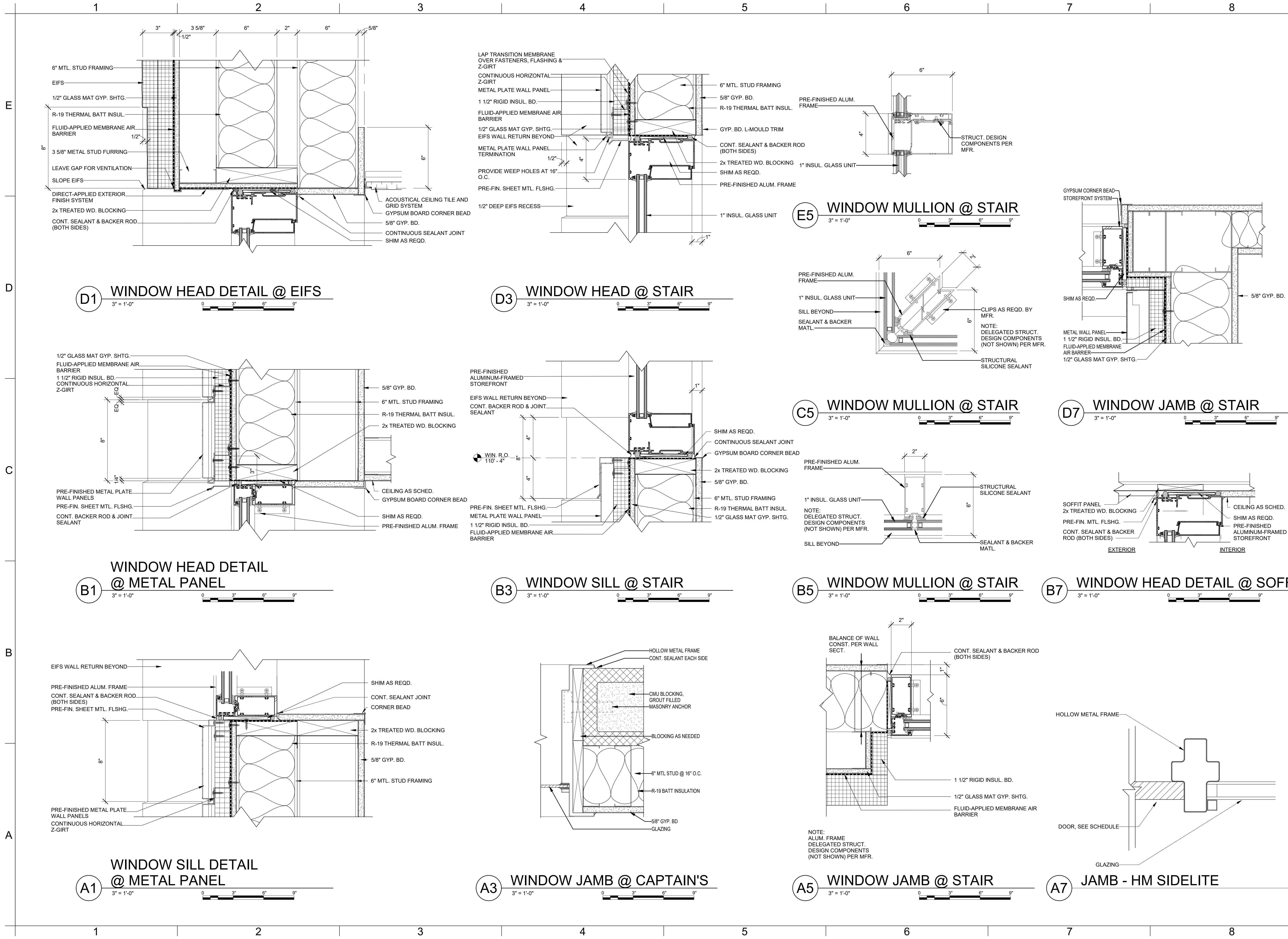
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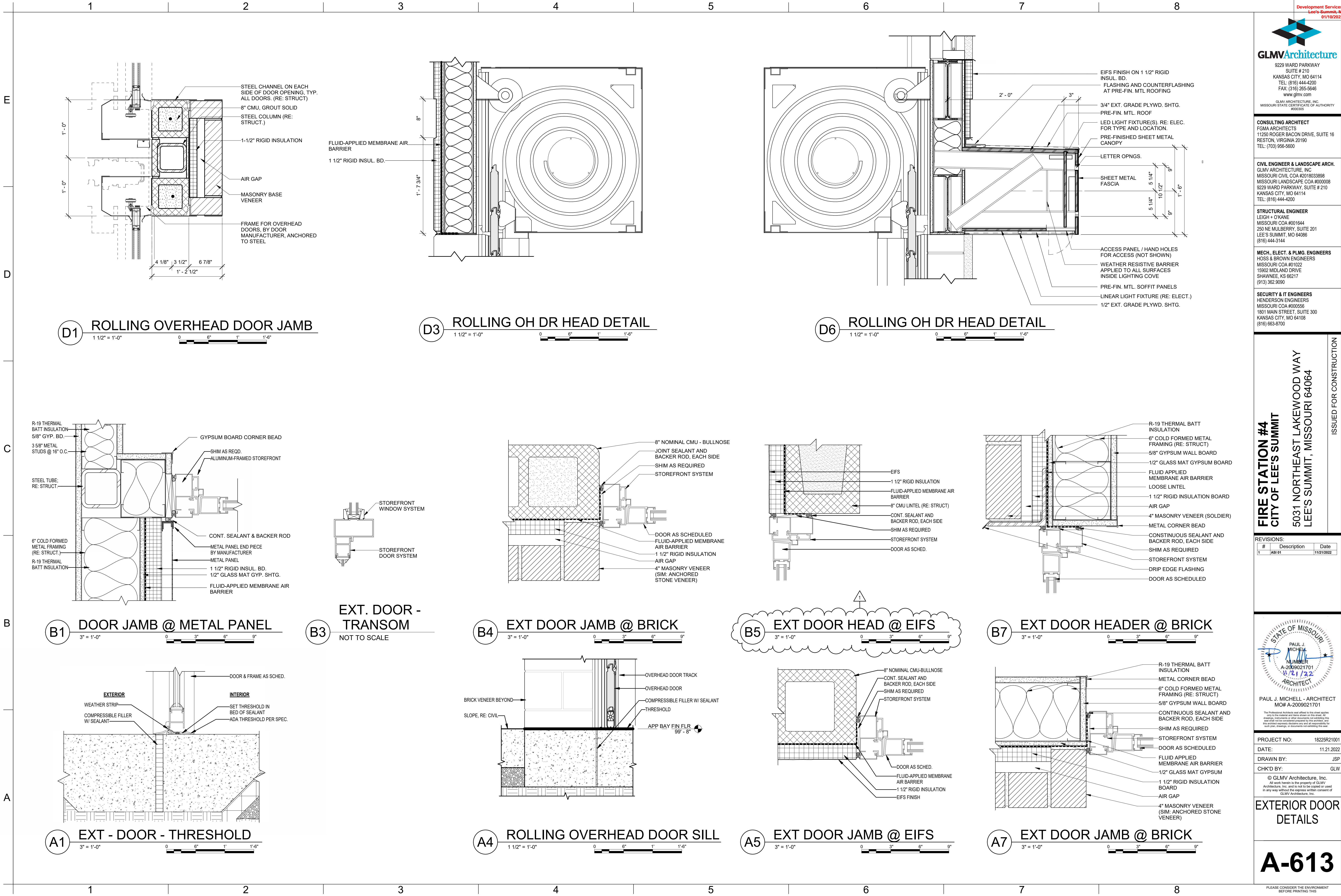
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**EXTERIOR DOOR
DETAILS**

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DOOR NOTES

DOOR SCHEDULE LEGEND	
ALUM	ALUMINUM
ANOD	ANODIZED
HM	HOLLOW METAL
IM	INSULATED METAL
PTD	PAINTED
SCW	SOLID CORE WOOD
STL	STEEL
STN	STAINED
T.	TEMPERED GLASS

1. ALL INTERIOR DOOR GLAZING IS GL-2 (U.N.O.

DOOR HARDWARE NOTES:

W-2 - PASSAGE - ALWAYS UNLOCKED BOTH WAYS

W-3 - PRIVACY - PINHOLE OUTSIDE, PUSH BUTTON LOCK
SIDE TO LOCK OUTSIDE LEVER, RELEASE BY ROTATING
SIDE LEVER. FREE EGRESS FROM INSIDE

W-4 - OFFICE - KEY OUTSIDE, PUSH/TURN BUTTON
SIDE TO LOCK AND UNLOCK OUTSIDE LEVER, FREE
GRESS FROM INSIDE

W-5 - STORE ROOM - OUTSIDE ALWAYS LOCKED.
ATCHBOLT RELEASED W/ KEY OUTSIDE OR ROTATING
SIDE LEVER. FREE EGRESS FROM INSIDE.

W-6 - CLASSROOM - KEY OUTSIDE TO LOCK OR UNLOCK
OUTSIDE LEVER. FREE EGRESS FROM INSIDE.

W-7 - PULL HARDWARE OUTSIDE. THUMB TURN LOCK FROM INSIDE. FREE EGRESS FROM INSIDE.

W-8 - STORM SHELTER HARDWARE.

DOOR LEGEND

1/4" = 1'-0"

A horizontal graphic scale bar with alternating black and white segments. It is marked with '0', '2'', '4'', and '8'' at regular intervals.

DOOR SCHEDULE																
MARK	ROOM NAME	DOOR						FRAME			DETAIL			HDWR	NOTES	REMARKS
		SIZE		TYPE	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL			
		WIDTH	HEIGHT													
100A	ENTRY VEST.	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	B3/A-613	B1/A-613	A1/A-613	HW-7		PANIC HARDWARE
100B	KITCHEN	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	B1/A-621	B3/A-621	A7/A-622	HW-1		PANIC HARDWARE
101	PUBLIC TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	E7/A-622	HW-3		
103	ADMIN. TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	E7/A-622	HW-3		
105	TEL / RADIO	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	A5/A-622	HW-2		45 MIN. FIRE RATING
106	CONF. RM.	3' - 0"	7' - 0"	D	SCW	STN	GL-2	1	HM	PTD	E1/A-621	E3/A-621	A5/A-622	HW-4		
108	CAPTAIN'S OFFICE	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621 & A7/A612	A5/A-622	HW-4		
109A	RAMP	3' - 0"	7' - 0"	C	SCW	PTD	GL-3	1	HM	PTD	E1/A-621	E3/A-621	-	HW-2		PANIC HARDWARE
109B	RAMP	3' - 0"	7' - 0"	D	ALUM	ANOD	-	1	ALUM	ANOD	B3/A-613	B4/A-613	A1/A-613	HW-1		PANIC HARDWARE
109C	RAMP	3' - 0"	7' - 6"	C	HM	PTD	GL-2	1	HM	PTD	D1/A-621	D3/A-621	-	HW-1		
110	EMS STOR.	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2		
111	APPARATUS BAY	3' - 0"	7' - 6"	A	STL	PTD	-	1	STL	PTD	B3/A-622	A3/A-622	-	HW-8		STORM SHELTER - 2 HR. FIRE RATING
112A	DECON	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2		
112B	DECON	3' - 0"	7' - 6"	A	STL	PTD	-	1	STL	PTD	B3/A-622	A3/A-622	-	HW-8		STORM SHELTER- 2 HR. FIRE RATING
113A	DECON TOIL.	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-3		
113B	RAMP	3' - 0"	7' - 6"	HM	PTD	-	-	1	HM	PTD	B3/A-622	A3/A-622	-	HW-8		STORM SHELTER - 2 HR. FIRE RATING
114A	RAMP	3' - 0"	7' - 6"	C	SCW	PTD	GL-3	1	HM	PTD	E1/A-621	E3/A-621	-	HW-2		PANIC HARDWARE
114B	RAMP	3' - 0"	7' - 6"	D	ALUM	ANOD	GL-1	1	ALUM	ANOD	B3/A-613	A7/A-613	A1/A-613	HW-1		PANIC HARDWARE
114C	APPARATUS BAY	3' - 0"	7' - 6"	C	HM	PTD	GL-2	1	HM	PTD	D1/A-621	D3/A-621	-	HW-1		
115	JAN.	3' - 0"	7' - 0"	A	HM	PTD	-	-	HM	PTD	E1/A-621	E3/A-621	-	HW-2		
116A	KITCHEN	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	1	ALUM	ANOD	B3/A-613	A7/A-613	A1/A-613	HW-1		PANIC HARDWARE
116B	KITCHEN	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-2	1	ALUM	ANOD	B3/A-613	B3/A-621 & A7/A-613	A1/A-613	HW-1		PANIC HARDWARE
119A		14' - 0"	14' - 0"													
119B		14' - 0"	14' - 0"													
119C		14' - 0"	14' - 0"													
119D	APPARATUS BAY	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	1	ALUM	ANOD	B3/A-613	B4/A-613 SIM & A5/A-613	A1/A-613	HW-1		PANIC HARDWARE
119E	APPARATUS BAY	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	1	ALUM	ANOD	B3/A-613	B4/A-613 SIM & A5/A-613	A1/A-613	HW-1		PANIC HARDWARE
119F		14' - 0"	14' - 0"													
119G		14' - 0"	14' - 0"													
119H		14' - 0"	14' - 0"													
120	UTILITY	3' - 0"	7' -													

DOOR - JAMB @
INT METAL STUD WALL

5/8" GYPSUM WALLBOARD
 SEALANT CONT. EA SIDE
 HOLLOW METAL FRAME
 DOUBLE STUD AT DOOR JAMB
 DOOR AS SCHEDULED

1/2"
 1/2"
 2"

DOOR - JAMB @ INT 8" CMU

8" NOMINAL CMU - BULLNOSE

JOINT SEALANT AND BACKER ROD, EA SIDE

HOLLOW METAL FRAME, GROUT SOLID

BLOCK & SHIM AS REQUIRED

DOOR AS SCHEDULED

MIN 3 ANCHORS, EA SIDE

DOOR - JAMB @ INT 8" CMU
W/ FURRING 1 SIDE

7/8" HAT CHANNEL
 CORNER BEAD
 5/8" GYPSUM WALLBOARD
 8" NOMINAL CMU - CORNER
 JOINT SEALANT AND
 BACKER ROD
 HOLLOW METAL
 FRAME, GROUT SOLID
 BLOCK & SHIM AS REQ'D
 MIN 3 ANCHORS, EA SIDE
 DOOR AS SCHEDULED
 JOINT SEALANT AND
 BACKER ROD

JAMB - STOREFRONT

ALUMINUM
STOREFRONT SYSTEM

DOOR, SEE SCHEDULE

DOOR JAMB DETAIL - POCKET

STEEL CASING

FLAT STUD FRAMING AS REQ'D AT POCKET DOOR RECESS

GYPSUM BOARD

STUD FRAMING AS REQ'D AT POCKET DOOR RECESS

WALL SCREW AT EVERY CLIP

FINISHED KNOCKDOWN POCKET DOOR FRAME

FLAT STUD FRAMING AS REQ'D AT POCKET DOOR RECESS

PREFINISHED KNOCKDOWN POCKET DOOR INVERTED STOP JAMB

HEAT TREATED CASING RETAINER CLIP, EA. SIDE

SCHEDULED DOOR

FILE PATH: BIM 360://18225R21001_LeeSummitFireStation_# 4 and #5/LSMO_FIRE STATIONS.rvt

E

D

C

B

A

1

2

3

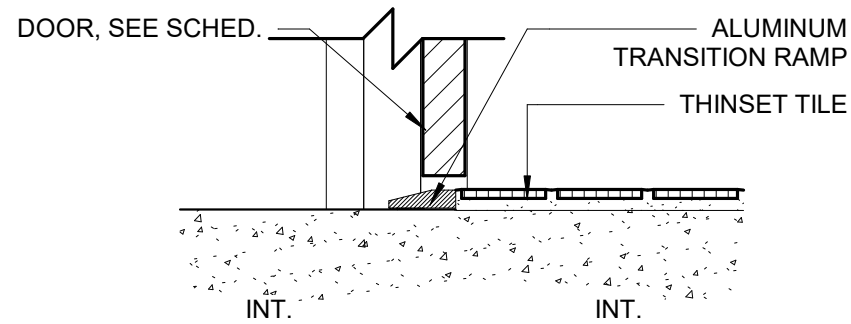
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5

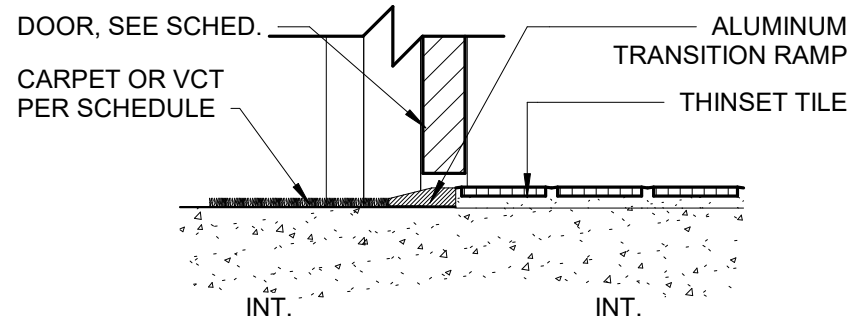
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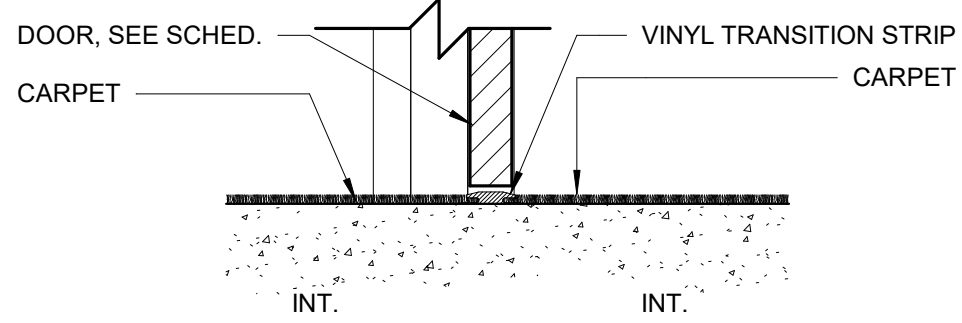
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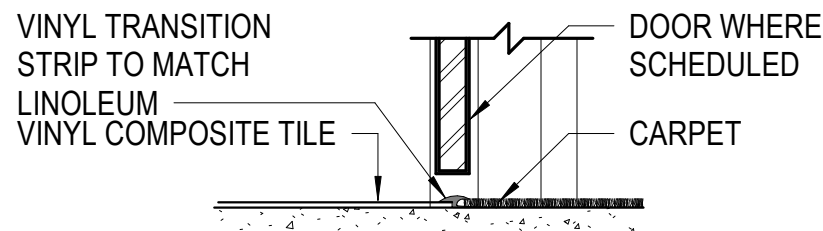
E7 THRESHOLD - CONC TO TILE



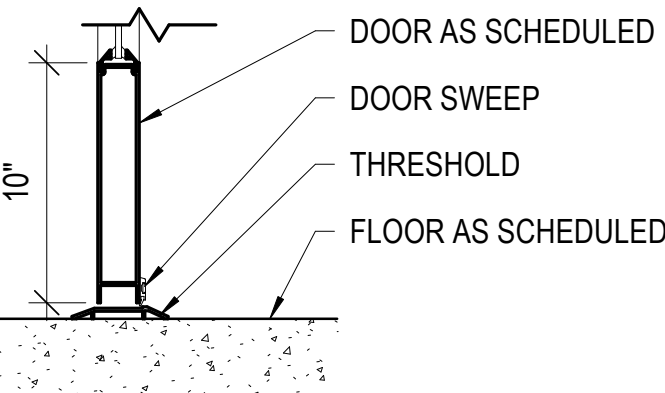
D7 THRESHOLD - CPT, LVT, VCT TO TILE



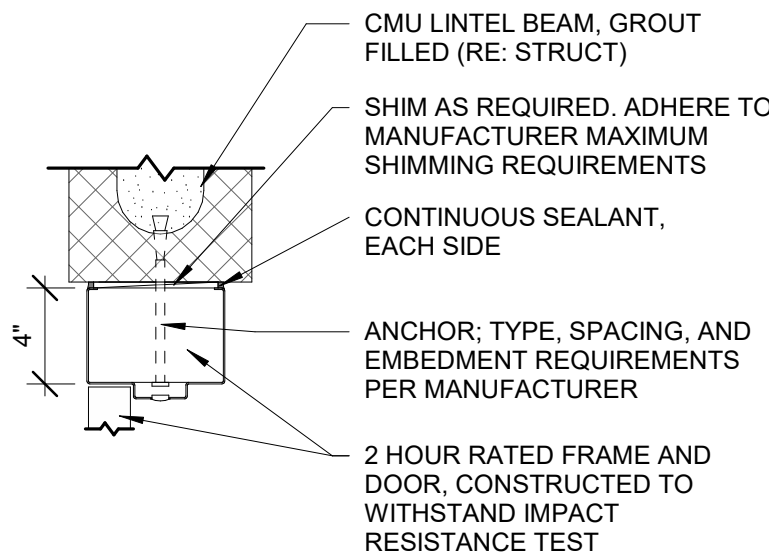
C7 THRESHOLD - CPT TO CPT



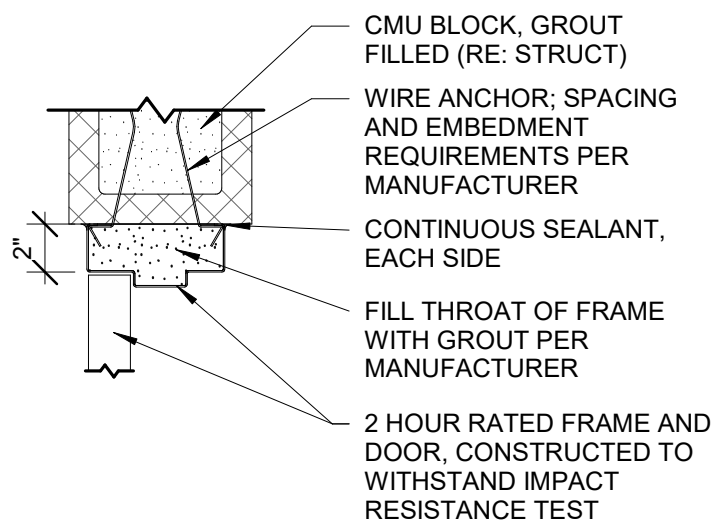
B7 THRESHOLD - VCT TO CPT



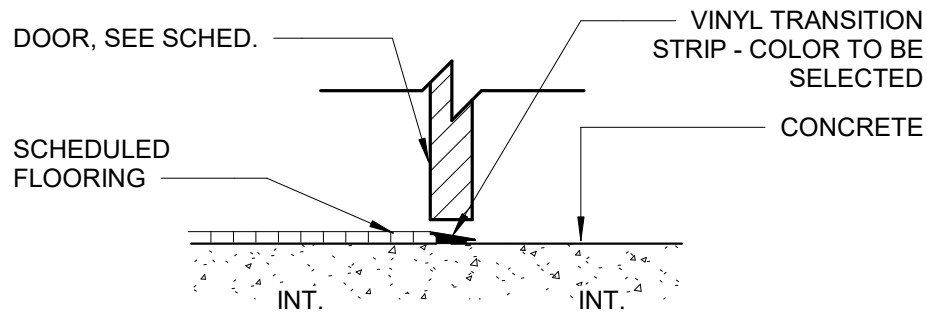
A7 STOREFRONT - SILL - DOOR



B3 DOOR HEADER STORM SHELTER



A3 DOOR JAMB STORM SHELTER



A5 THRESHOLD - INT CONC TO CPT, VCT, RF



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KANSAS CITY, MO 64108
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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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REVISIONS:

#	Description	Date
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MO# A-2009021701

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DATE: 11.21.2022
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CHK'D BY: PJM

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DOOR DETAILS

A-622



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REVISIONS:

#	Description	Date
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DATE: 11.21.2022
DRAWN BY: KSK
CHK'D BY: PJM

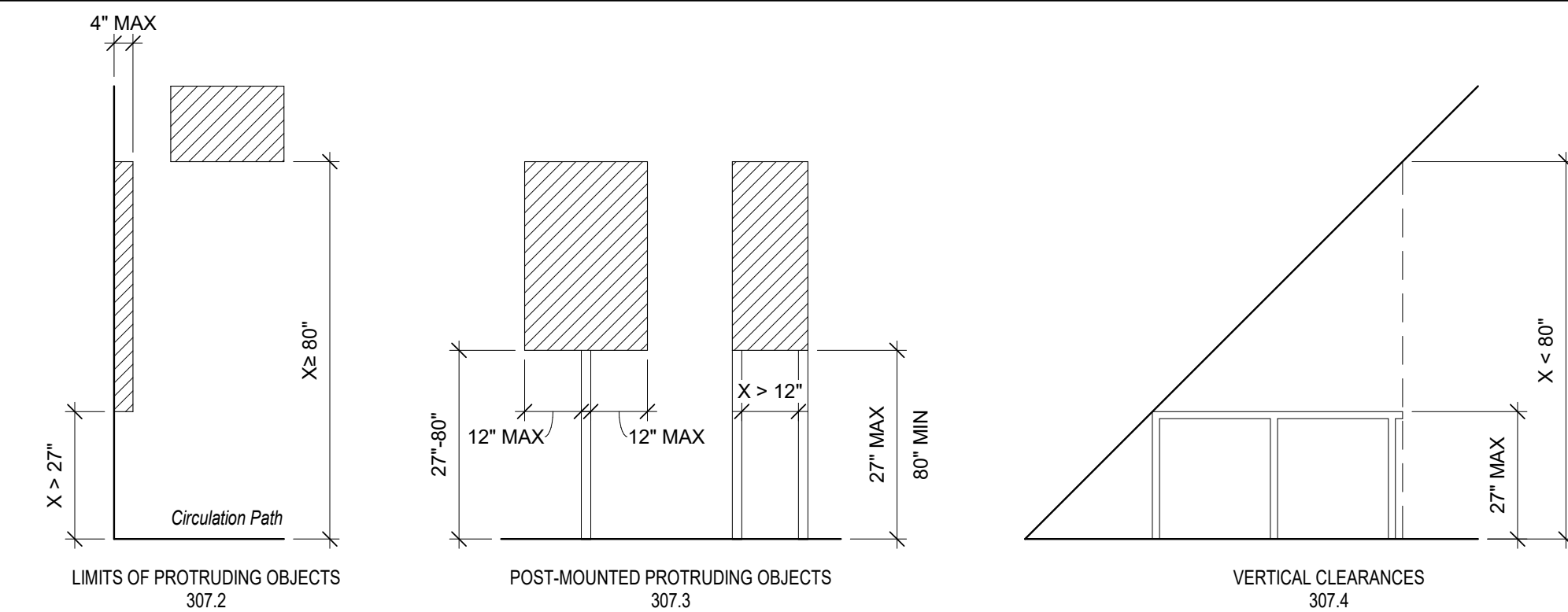
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**TYPICAL
MOUNTING
HEIGHTS**

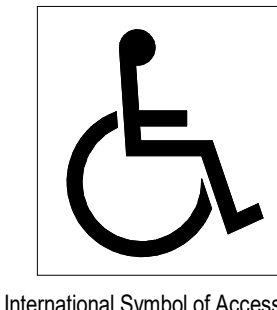
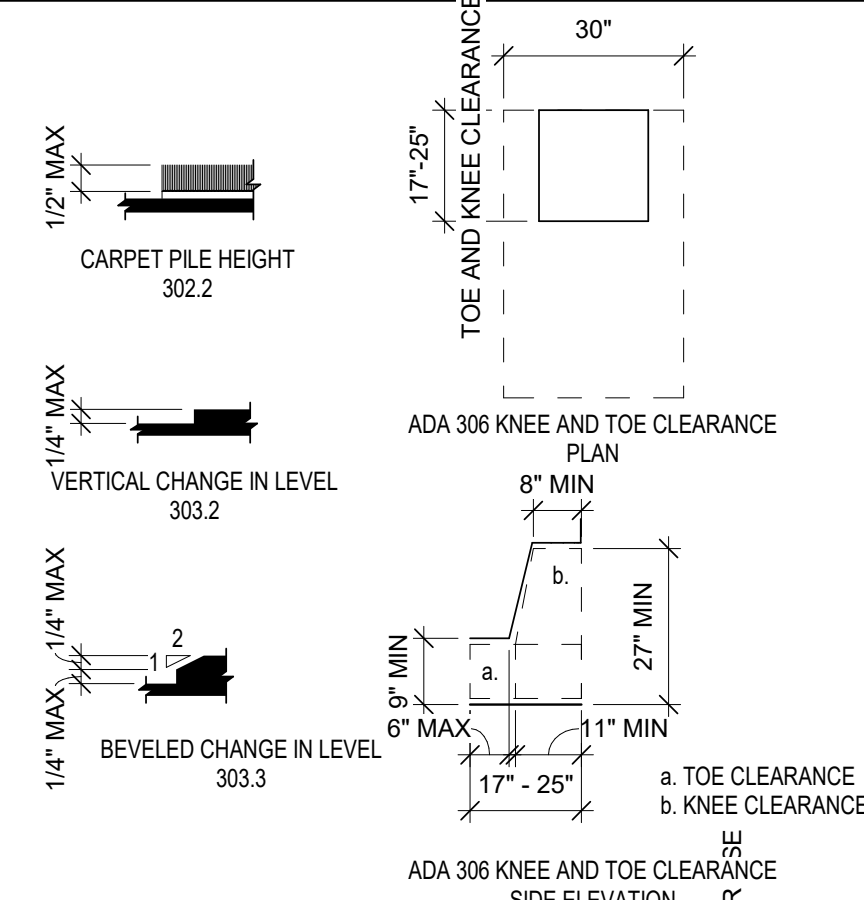
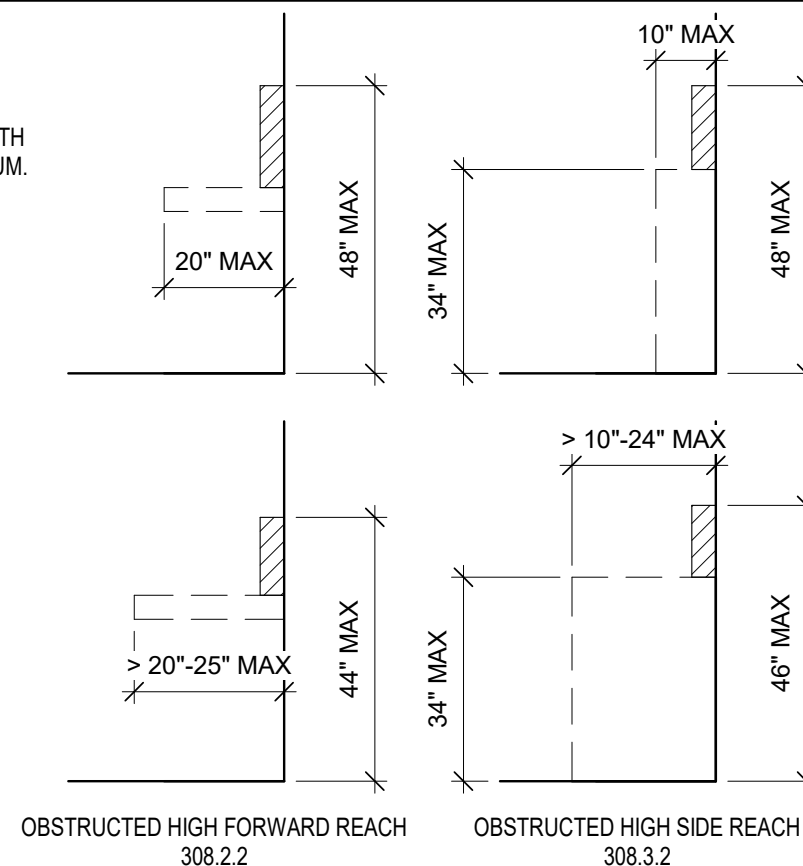
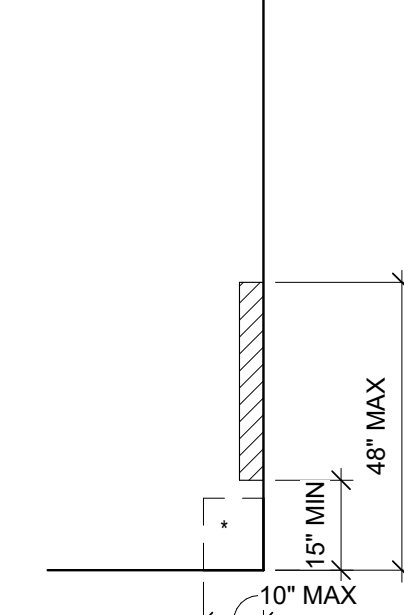
I-001

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TYPICAL MOUNTING HEIGHTS



* UNOBSTRUCTED SIDE REACH EXCEPTION:
AN OBSTRUCTION SHALL BE PERMITTED
BETWEEN THE CLEAR FLOOR OR GROUND
SPACE AND THE ELEMENT WHERE THE DEPTH
OF THE OBSTRUCTION IS 10 INCHES MAXIMUM.



International Symbol of Accessibility
703.7.2.1
Automatic and Power-Assisted Doors and Gates
404.3



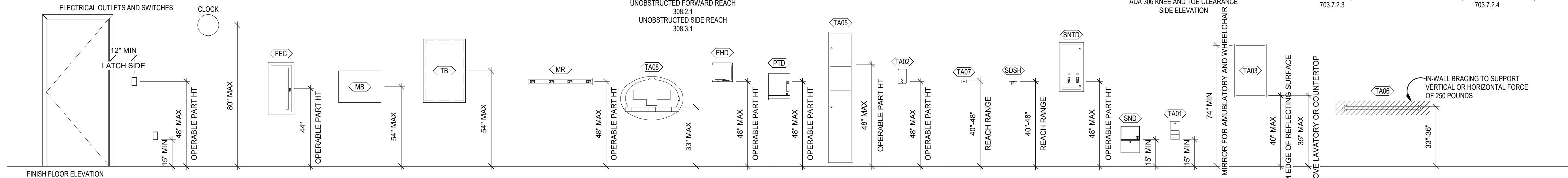
International Symbol of TTY
703.7.2.2



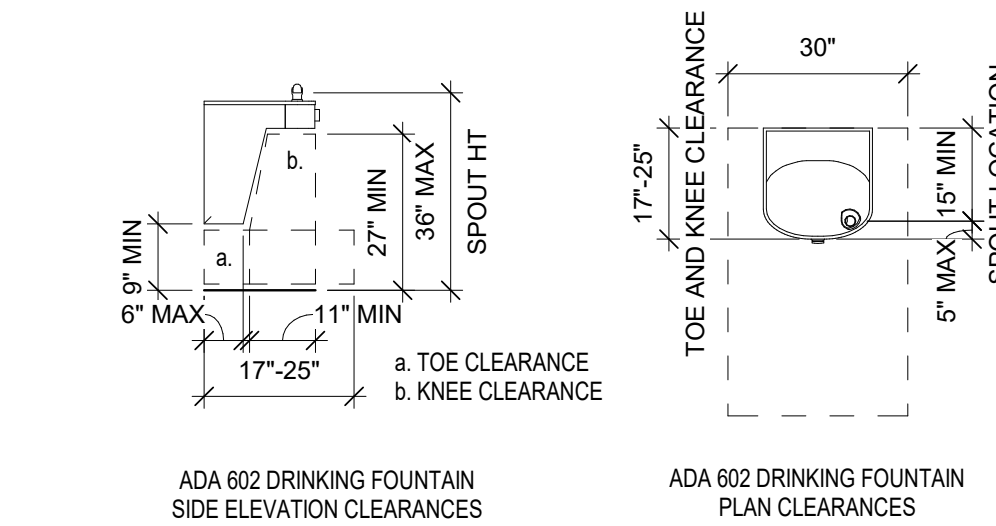
Volume Control Telephone
703.7.2.3



International Symbol of Access for Hearing Loss
703.7.2.4

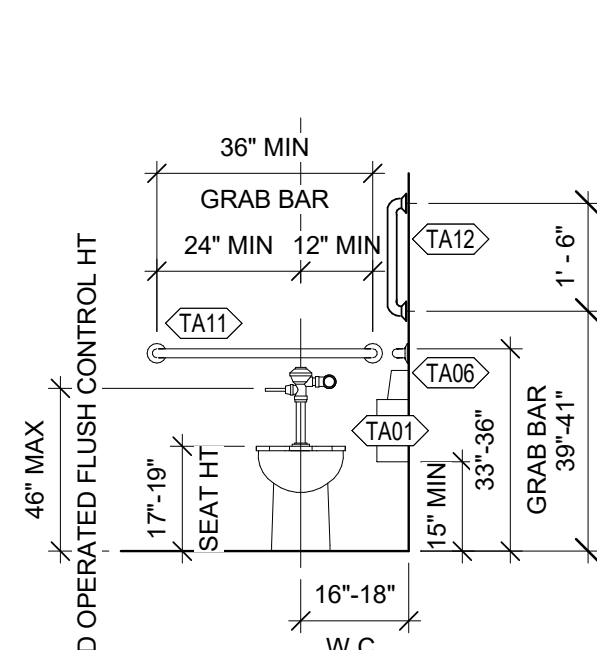


PLUMBING ELEMENTS AND FACILITIES

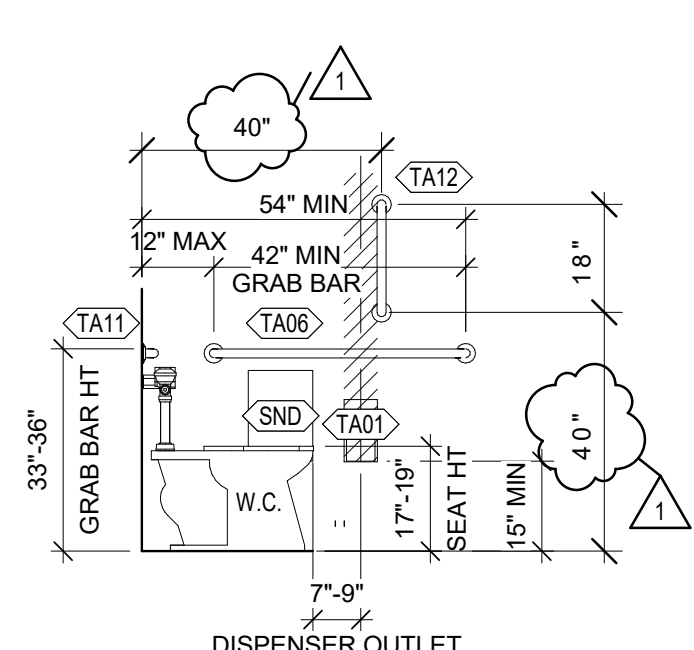


ADA 602 DRINKING FOUNTAIN
SIDE ELEVATION CLEARANCES

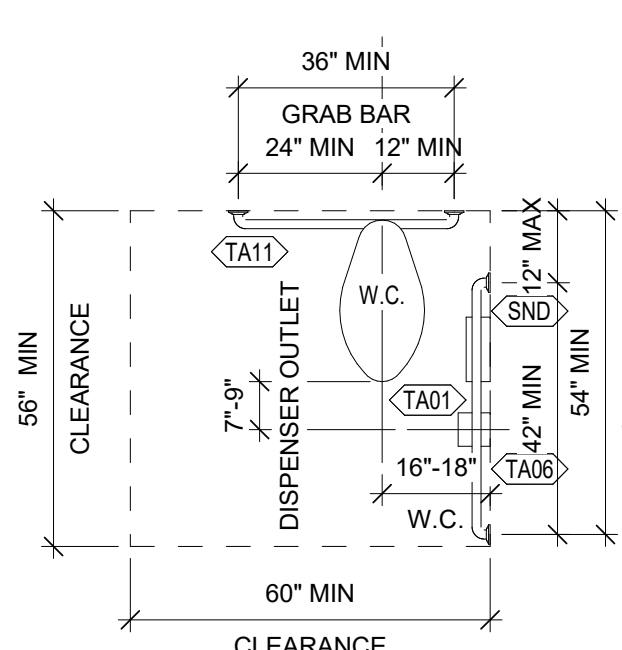
ADA 602 DRINKING FOUNTAIN
PLAN CLEARANCES



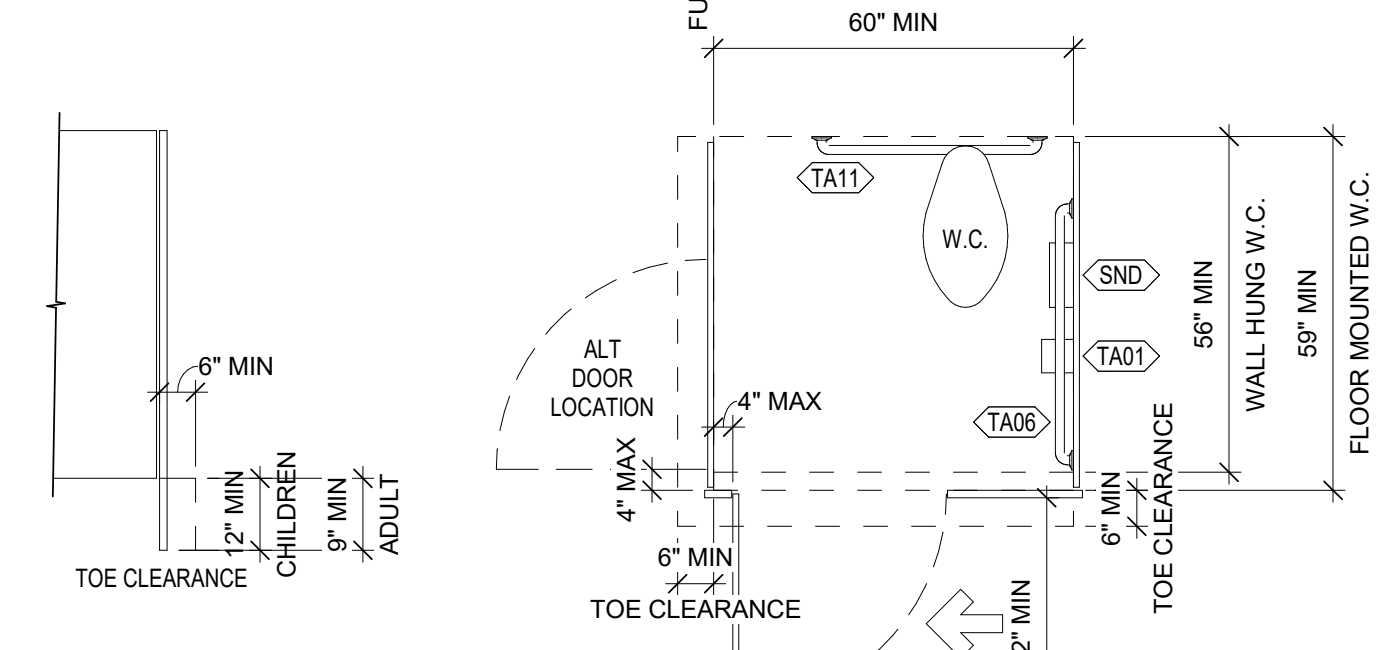
ADA 604 WATER CLOSETS AND TOILET COMPARTMENTS
FRONT ELEVATION CLEARANCES



ADA 604 WATER CLOSETS AND TOILET COMPARTMENTS
SIDE ELEVATION CLEARANCES

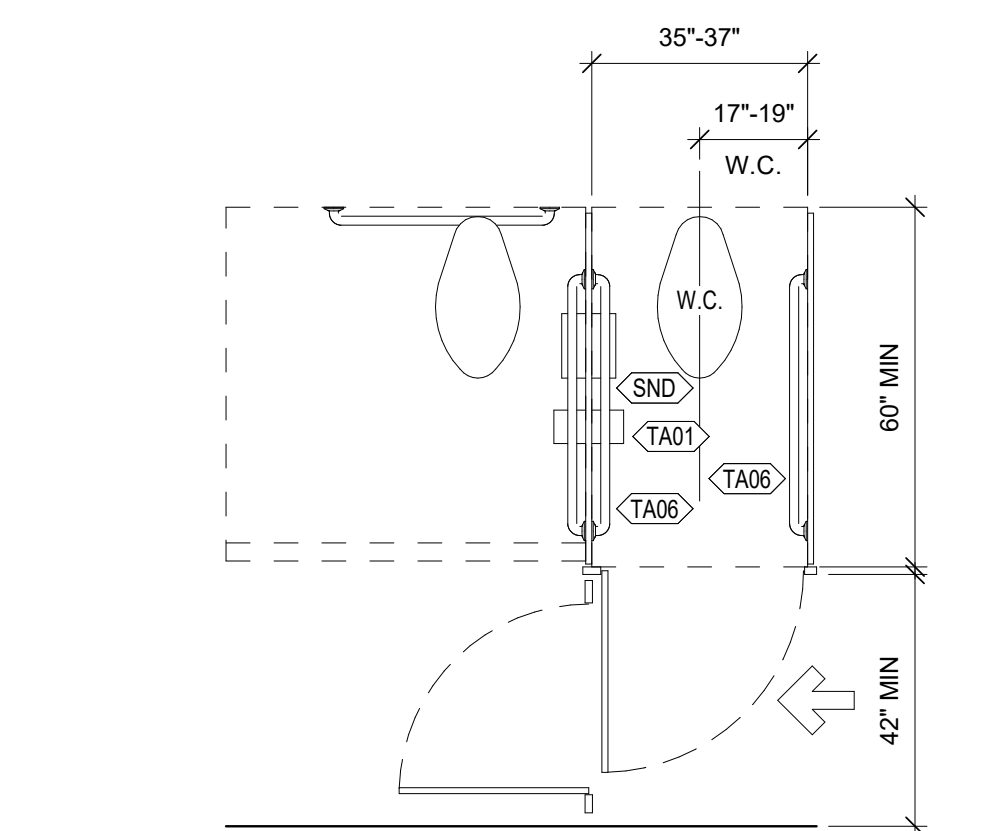


ADA 604 WATER CLOSETS AND TOILET COMPARTMENTS
PLAN CLEARANCES

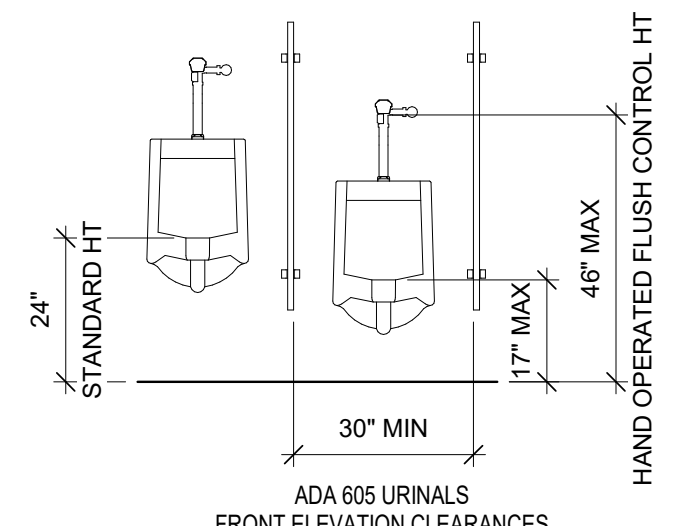


ADA 604.8 TOILET COMPARTMENTS
SIDE ELEVATION CLEARANCES

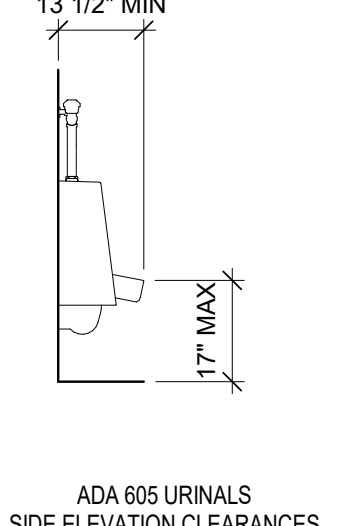
ADA 604.8 TOILET COMPARTMENTS
PLAN CLEARANCES



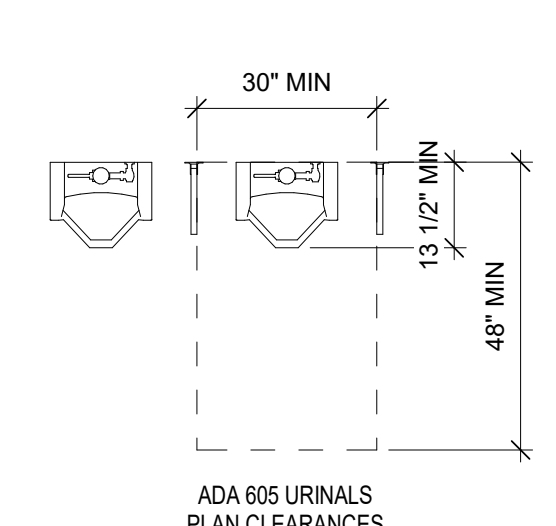
ADA 604.8.2 AMBULATORY ACCESSIBLE COMPARTMENTS
PLAN CLEARANCES



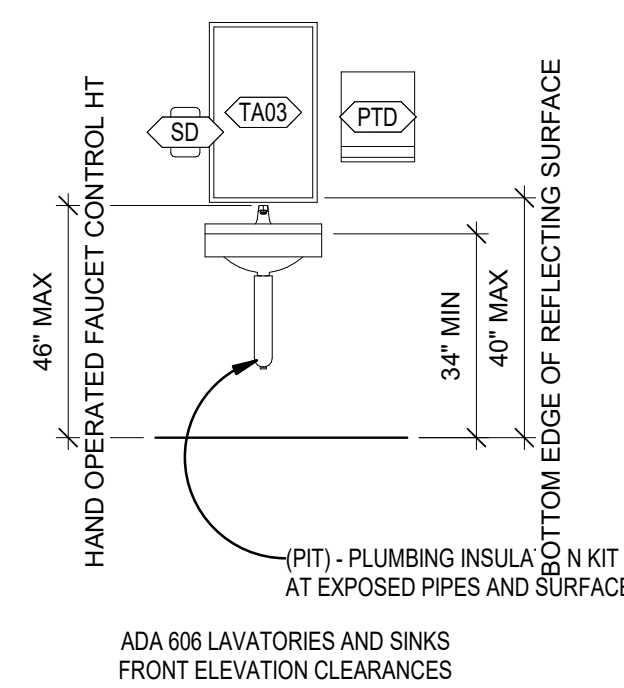
ADA 605 URINALS
FRONT ELEVATION CLEARANCES



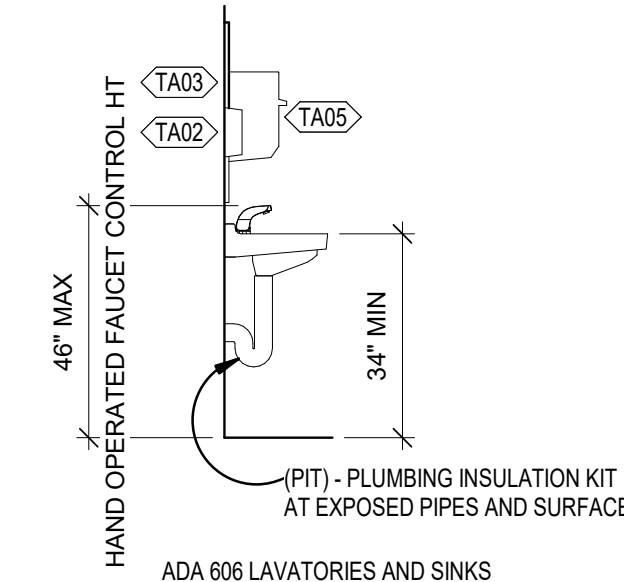
ADA 605 URINALS
SIDE ELEVATION CLEARANCES



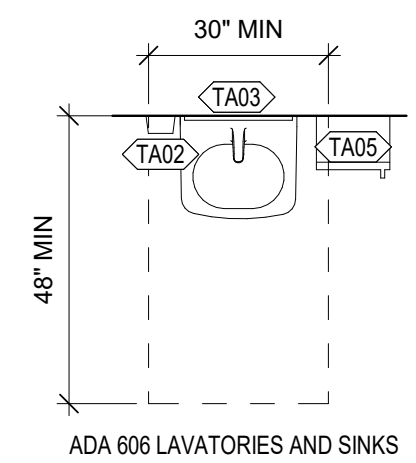
ADA 605 URINALS
PLAN CLEARANCES



ADA 606 LAVATORIES AND SINKS
FRONT ELEVATION CLEARANCES

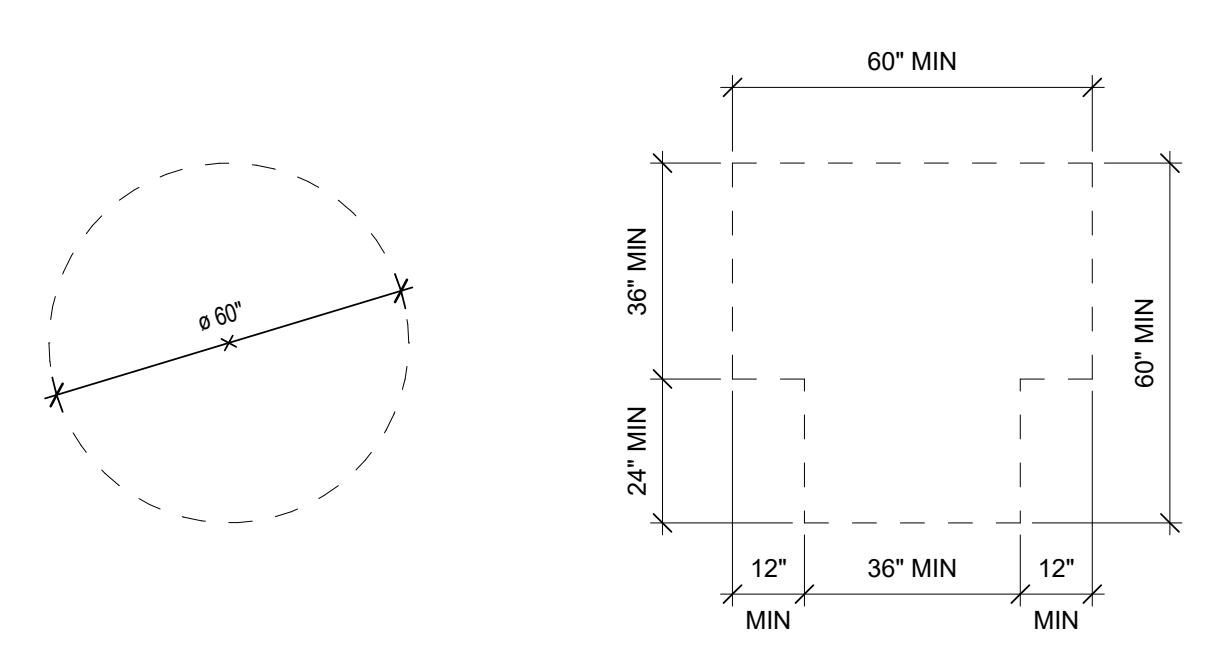


ADA 606 LAVATORIES AND SINKS
SIDE ELEVATION CLEARANCES



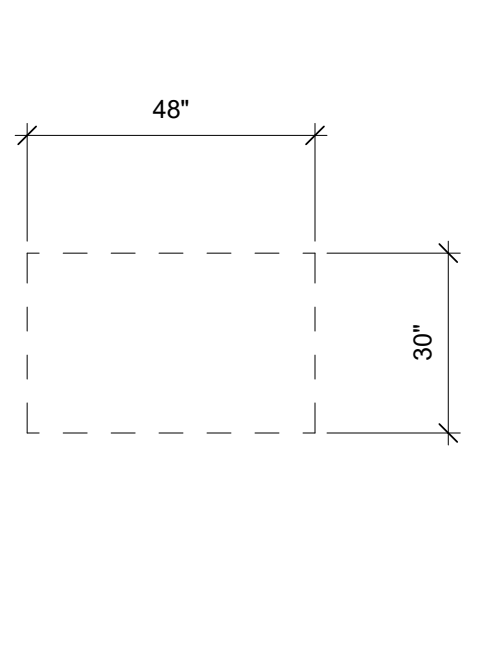
ADA 606 LAVATORIES AND SINKS
PLAN CLEARANCES

CLEAR FLOOR AND GROUND SPACE

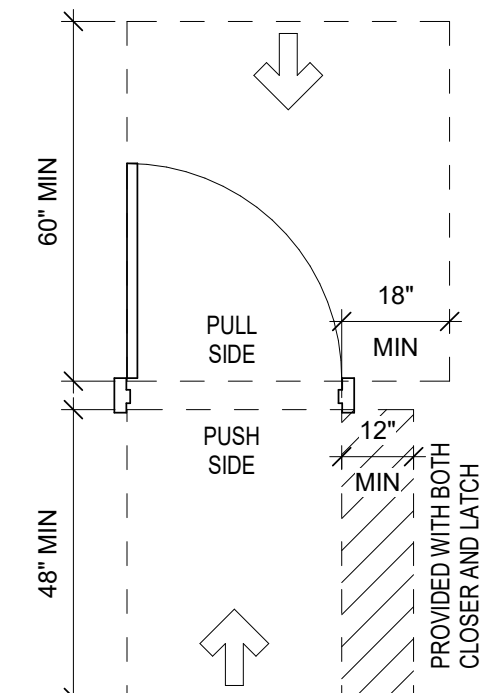


CIRCULAR SPACE
304.3.1

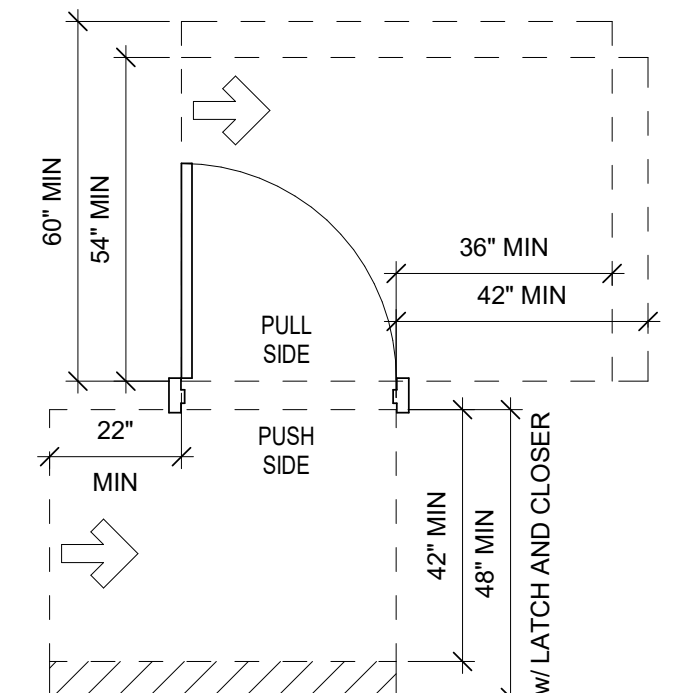
T-SHAPED SPACE
304.3.2



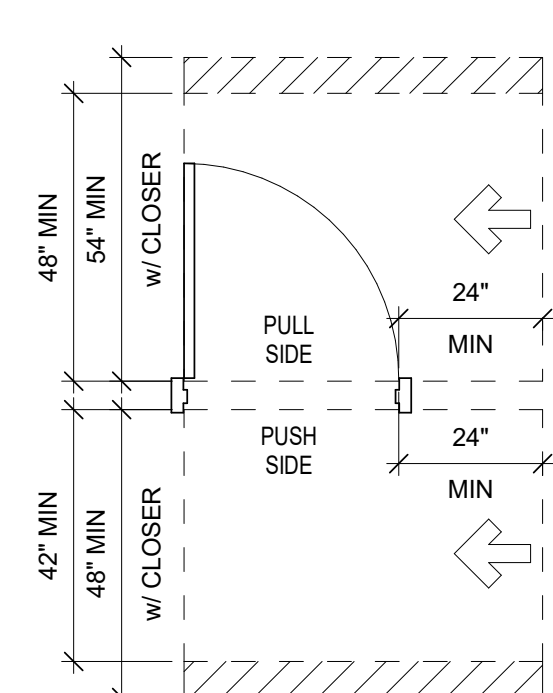
CLEAR FLOOR OR GROUND SPACE
305.3



FORWARD APPROACH
305.3



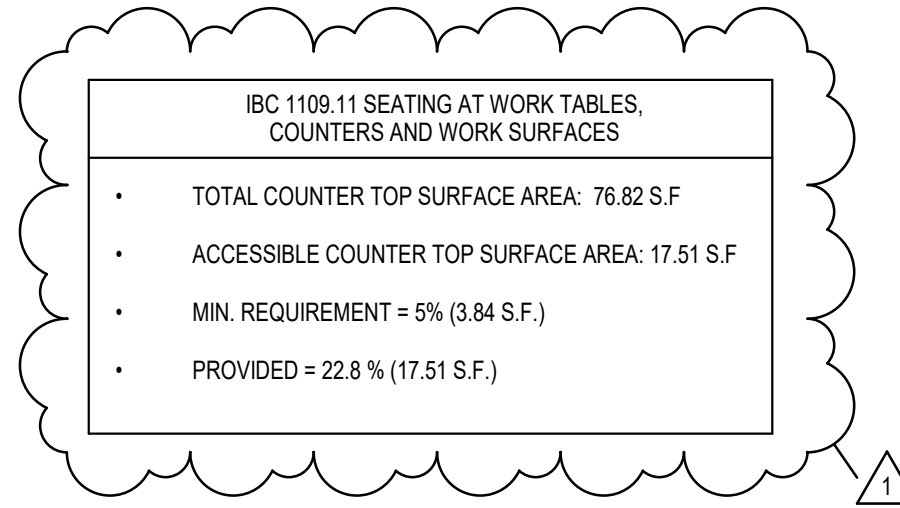
HINGE APPROACH
305.3



LATCH APPROACH
305.3

DOOR MANEUVERING CLEARANCES

SPECIALTIES / ACCESSORIES SCHEDULE



FILE PATH: BM 360 // 18225R21001_LeeSummitFireStation_# 4 and #5/LSMO_FIRE STATIONS.rvt

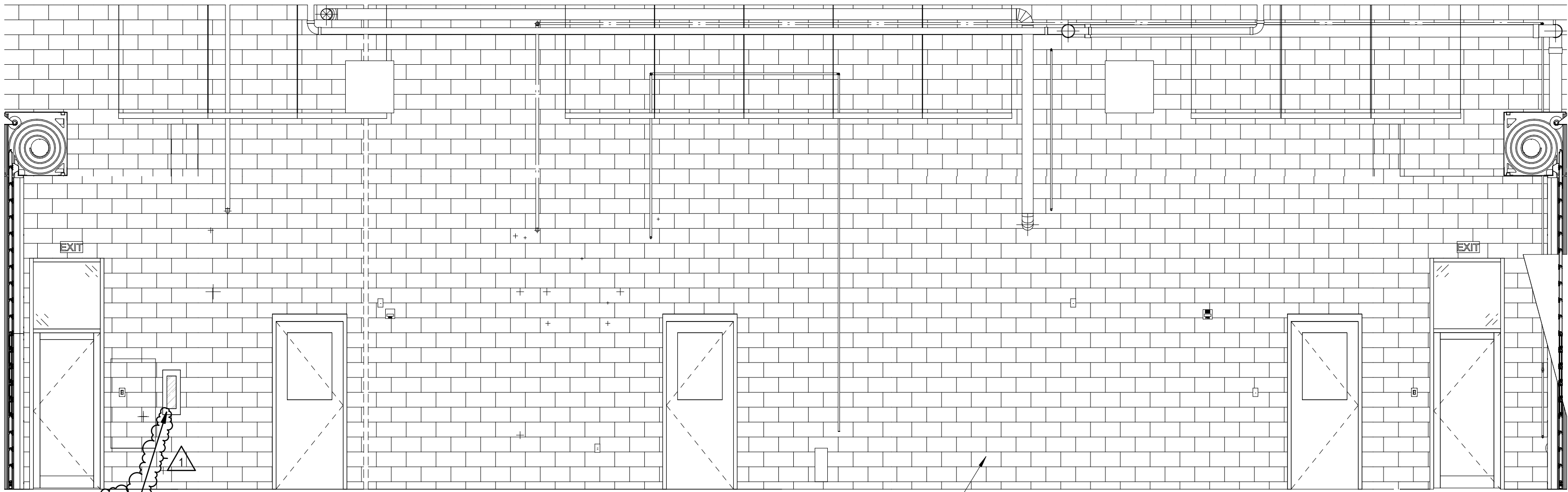
E

D

C

B

A

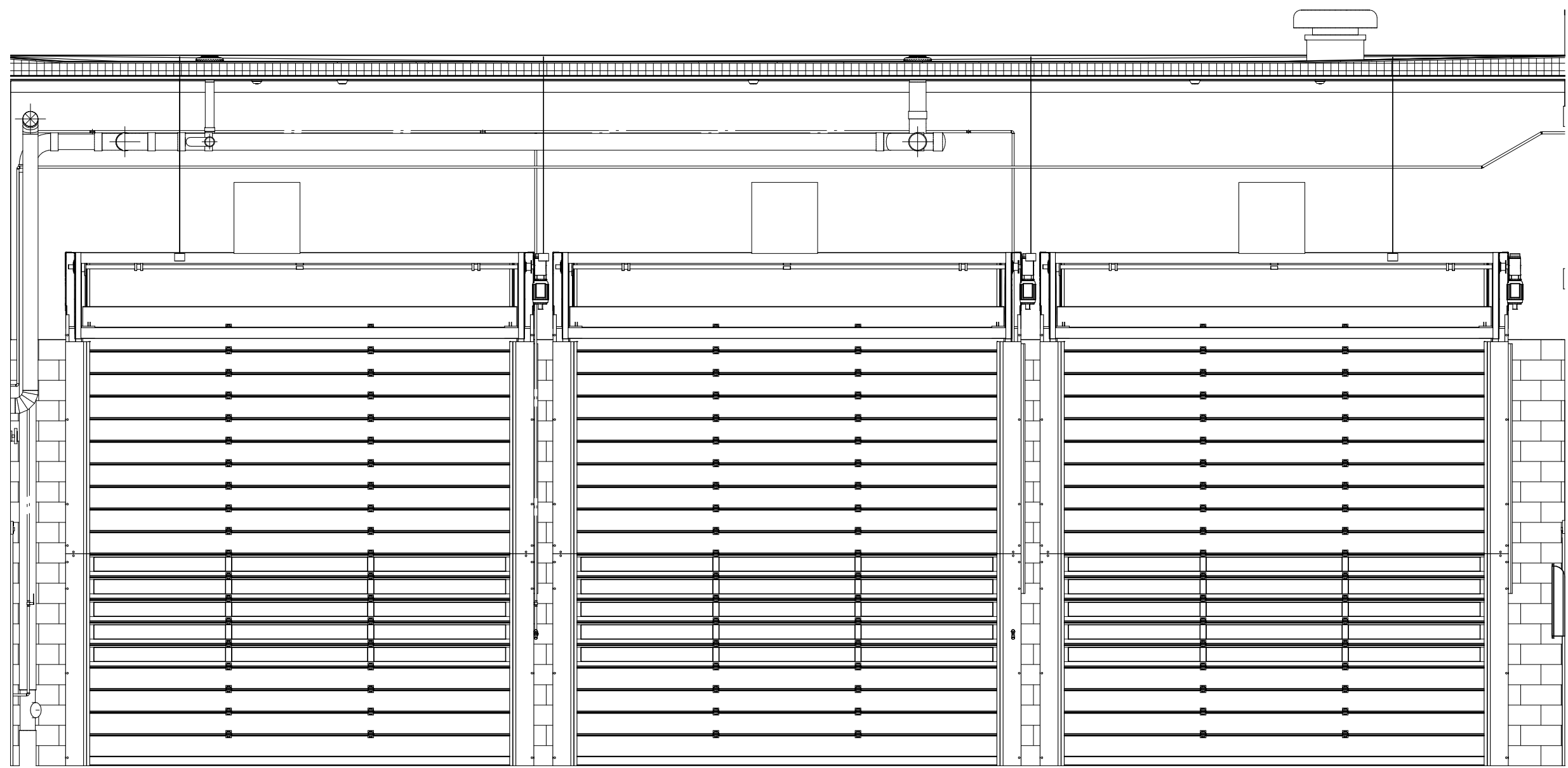


D2 APPARATUS BAY NORTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

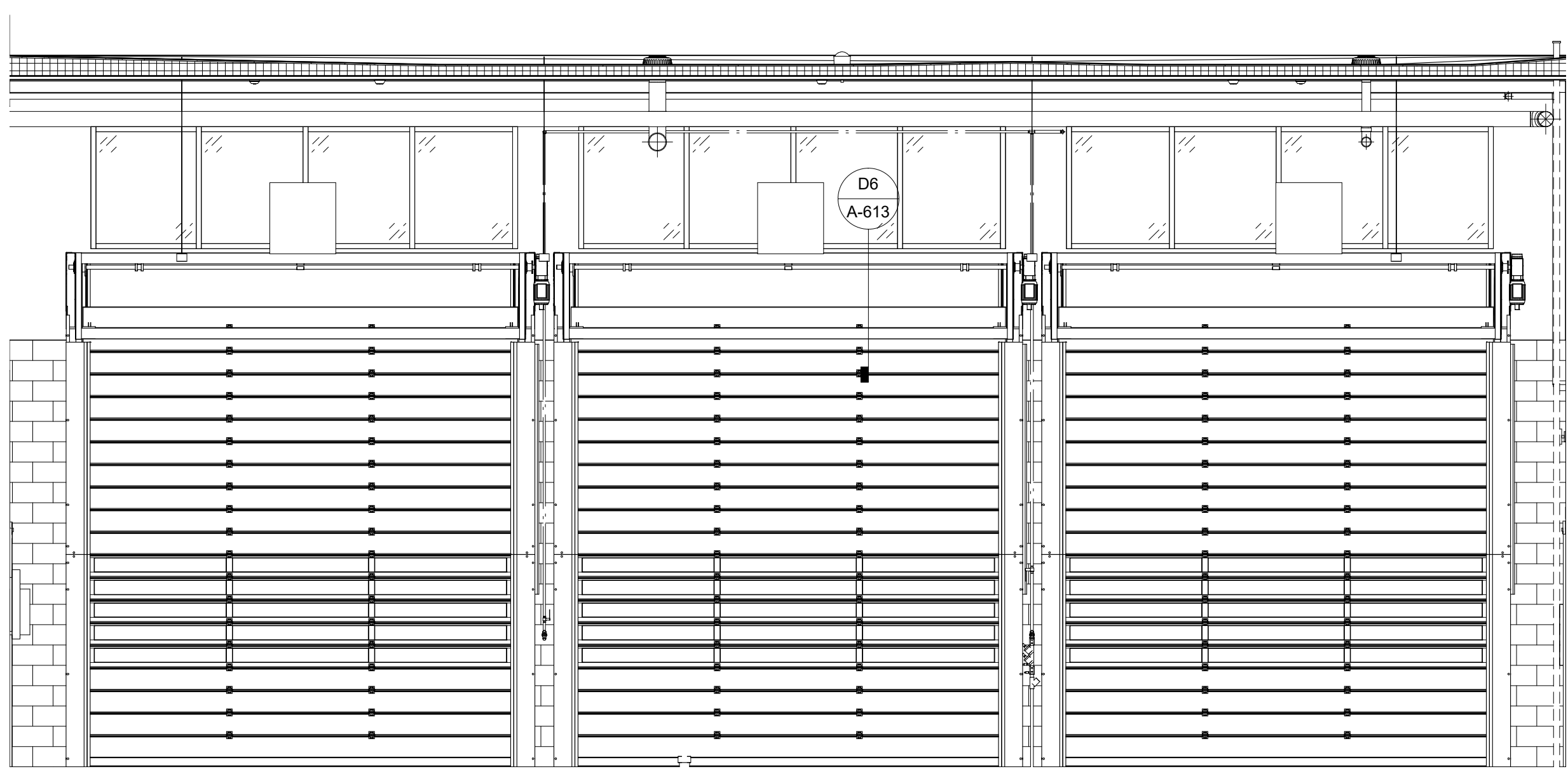
P-2 ACCENT COLOR



B1 APPARATUS BAY EAST ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

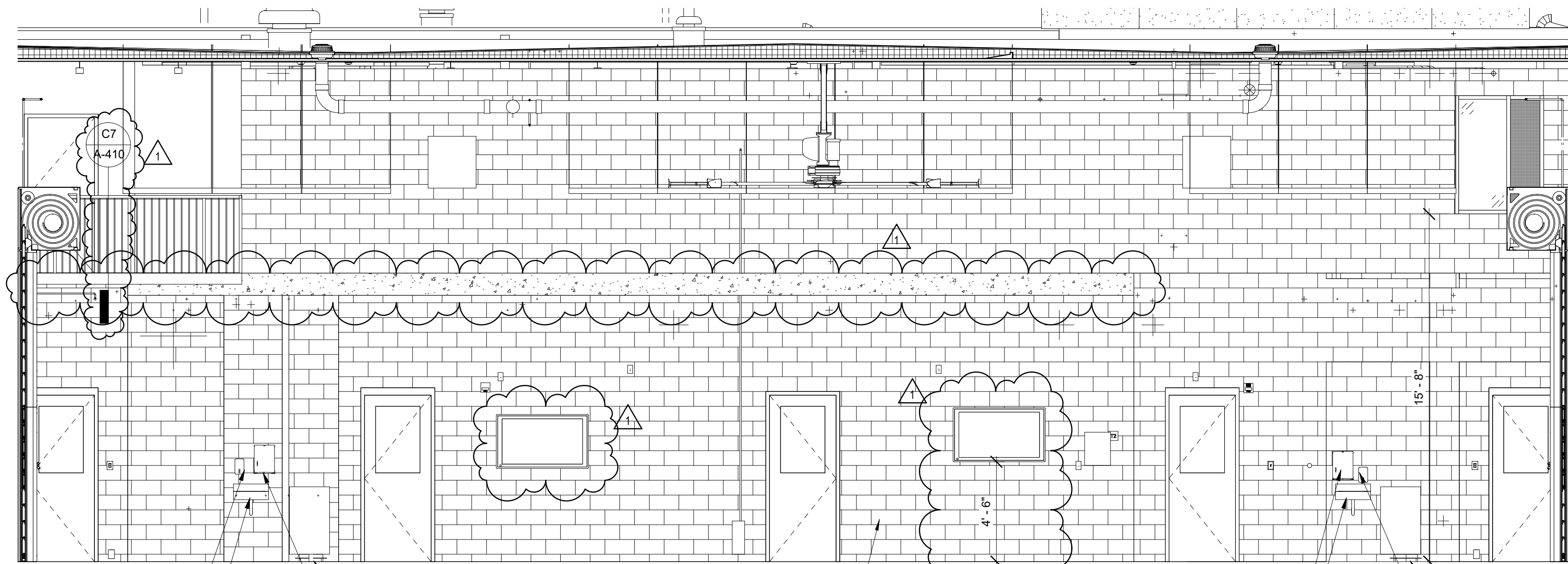


B5 APPARATUS BAY WEST ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

P-2 ACCENT COLOR



A3 APPARATUS BAY SOUTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

SOAP DISPENSER
SINK

BOOT WASH
PAPER TOWEL DISPENSER

SOAP DISPENSER
SINK

BOOT WASH
PAPER TOWEL DISPENSER



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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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1	ASB 01	11/21/2022



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MO# A-2009021701

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**APPARATUS BAY
ELEVATIONS**

I-203

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E

D

C

B

A

ROOM NO.	NAME	FLOOR	BASE TYPE/ FINISH	NORTH MAT. / FIN.	EAST MAT. / FIN.	SOUTH MAT. / FIN.	WEST MAT. / FIN.	CEILING	IR	WET	REMARKS
100	ENTRY VEST.	POLISHED CONC	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD			
101	PUBLIC TOILET	RF	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD			PROTECTION BOARD ON WET WALL
103	ADMIN. TOILET	RF	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			PROTECTION BOARD ON WET WALL
105	TEL / RADIO	VCT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	EXP/PTD			
106	CONF. RM.	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
107	ELEV										
108	CAPTAIN'S OFFICE	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
109	RAMP	SC	RB	CMU/PTD	CMU/PTD	GWB/PTD	CMU/PTD	EXP/PTD			
110	EMS STOR.	SC	RB	CMU/PTD	CMU/PTD	GWB/PTD	CMU/PTD	EXP/PTD			
111	PPE / LOCKERS	SC	RB	CMU/PTD	CMU/PTD	CMU/PTD	CMU/PTD	EXP/PTD			
112	DECON	SC	RB	CMU/ EPOXY PTD	CMU/ EPOXY PTD	CMU/ EPOXY PTD	CMU/ EPOXY PTD	EXP/PTD			
113	DECON TOIL.	SC	RB	CMU/ EPOXY PTD	CMU/ EPOXY PTD	CMU/ EPOXY PTD	CMU/ EPOXY PTD	EXP/PTD			
114	RAMP	SC	RB	CMU/PTD	GWB/PTD	GWB/PTD	CMU/PTD	EXP/PTD			
115	JAN										
116	KITCHEN	POLISHED CONC	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT DECORATIVE			
117	DINING	POLISHED CONC	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT DECORATIVE			
118	DAY ROOM	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT DECORATIVE			
119	APPARATUS BAY	SC	-	CMU/PTD	CMU/PTD	CMU/PTD	CMU/PTD	EXP/PTD			
120	UTILITY	SC	-	CMU/PTD	CMU/PTD	CMU/PTD	CMU/PTD	EXP/PTD			
121	SHOP	SC	-	CMU/PTD	CMU/PTD	CMU/PTD	CMU/PTD	EXP/PTD			
122	EXERCISE / WELLNESS	RAF	RB	CMU/PTD	CMU/PTD	CMU/PTD	CMU/PTD	ACT			
200	STAIR	RT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
201	CORRIDOR	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			CORRIDOR WALLS TO RECEIVE CORNER GUARDS
202	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
202A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
202B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			
203	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
203A	CAPTAIN'S BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
203B	TOILET	PT	PT	GWB/PTD	GWB/PTD/PT	PT	GWB/PTD	GWB/PTD			
204	MEZZANINE										
205	LAUNDRY/JAN.	PT	PT	GWB/PTD	GWB/PTD	CMU/PTD	CMU/GWB/PTD	ACT			
206	MECH.	SC	-	CMU/PTD	GWB/PTD	CMU/PTD	GWB/PTD	-			
207	GENERAL STORAGE	SC	RB	GWB/PTD	GWB/PTD	CMU/PTD	GWB/PTD				
208	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
208A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
208B	TOILET	PT	PT	GWB/PTD	GWB/PTD/PT	PT	GWB/PTD/PT	GWB/PTD			
209	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
209A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
209B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			
210	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
210A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
210B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			
211	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
211A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
211B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			
212	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
212A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
212B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			
213	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
213A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
213B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			

ROOM FINISH CODE

GENERAL NOTES:

1. ALL FLOOR FINISHES TO EXTEND UNDER MOVEABLE FURNITURE
2. ALL EXPOSED STRUCTURE IS TO BE PAINTED U.N.O.
3. PROVIDE WINDOW TREATMENTS AT ALL EXTERIOR WINDOWS AND/OR STOREFRONT GLAZING SYSTEM SECTIONS
4. ALL WALL/CEILING/EXPOSED STRUCTURE PAINT COLORS TO BE P-1 U.N.O. REFER TO FINISH PLANS FOR EXTENT OF ACCENT WALL COLORS
5. ALL TILED WALLS TO USE GLASS MAT BOARD
6. ALL ROOMS MARKED "WET" ARE TO RECEIVE WATER RESISTANT GWB
7. ALL ROOMS MARKED "IR" ARE TO RECEIVE 5/8" IMPACT RESISTANT TYPE 'X' GWB

FINISH SCHEDULE LEGEND:

- ACTACOUSTICAL CEILING TILE
- CPTCARPET TILE
- CMUCONCRETE MASONRY UNIT
- EXP EXPOSED STRUCTURE
- GWBGYPSUM WALL BOARD
- HPCHIGH PERFORMANCE COATING
- IRIMPACT RESISTANT
- PCPOLISHED CONCRETE
- PTPORCELAIN TILE
- PTDPAINTED
- RAFRESILIENT ATHLETIC FLOOR
- RFBRUBBER FLOORING
- RBRUBBER BASE
- RTBRUBBER TREADS
- SCSEALED CONCRETE

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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

#	Description	Date
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STATE OF MISSOURI

PAUL J. MICHELL

NUMBER
A-2009021701

11/21/22

ARCHITECT

PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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DATE:	11.21.2022
DRAWN BY:	KSK
CHK'D BY:	PJM

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FINISH SCHEDULE

I-601

PLAN NOTES:

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
01/10/2023

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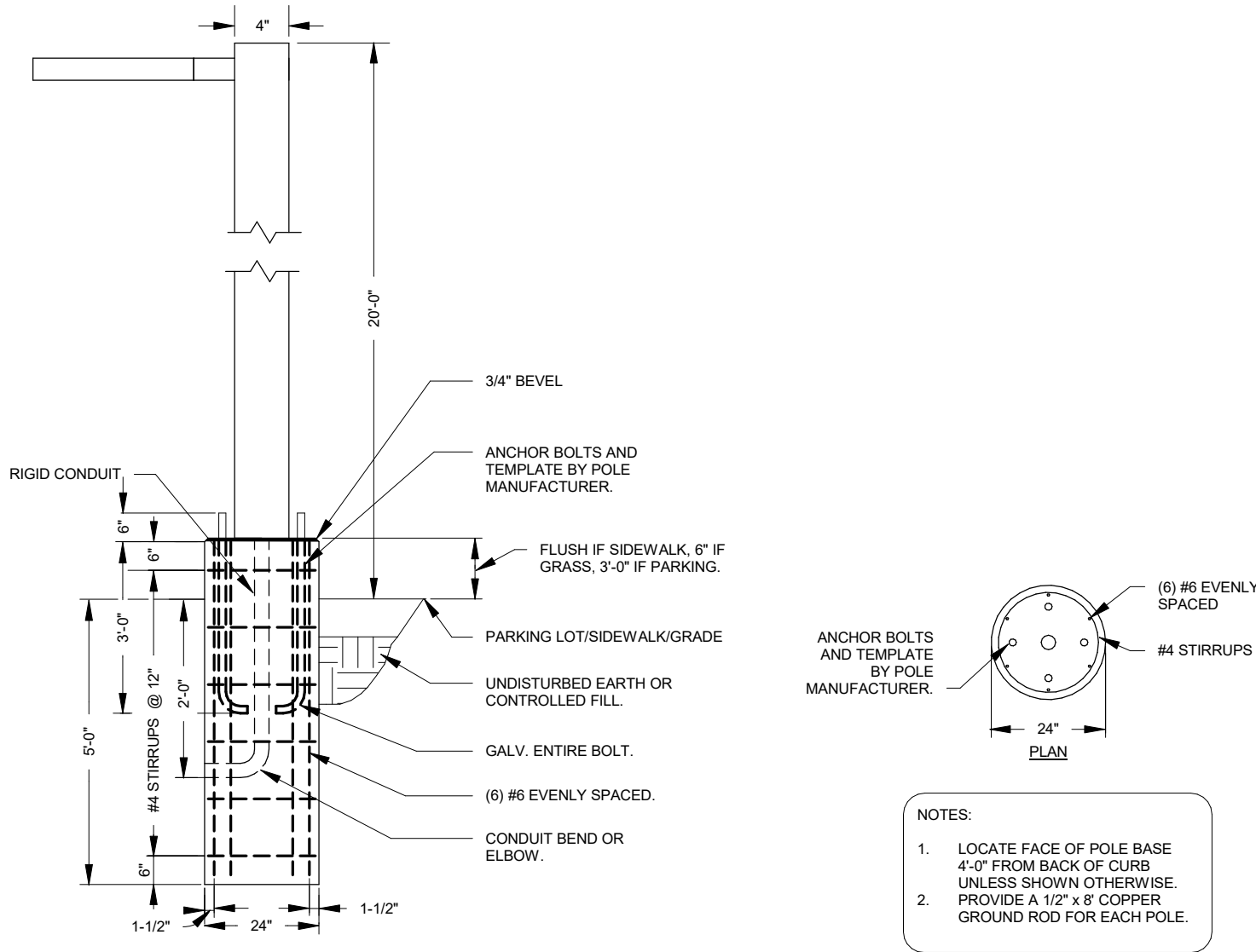
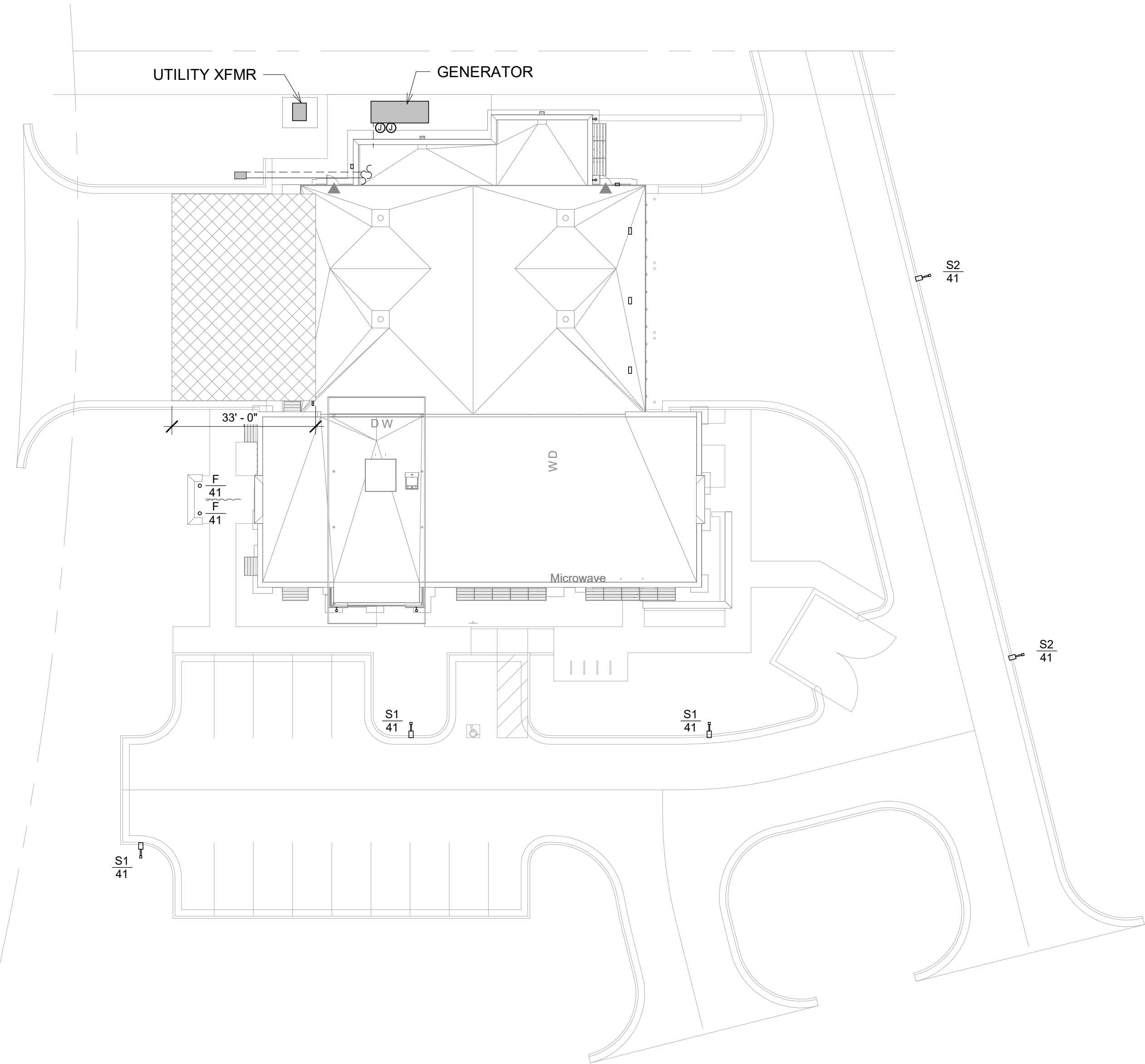
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MPE SITE PLAN

ME001

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- NOTES:
- LOCATE FACE OF POLE BASE 4'-0" FROM BACK OF CURB UNLESS SHOWN OTHERWISE. PROVIDE A 1/2" x 8" COPPER GROUND ROD FOR EACH POLE.

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PROJECT NO: 18225R210

DATE: 10.19.20

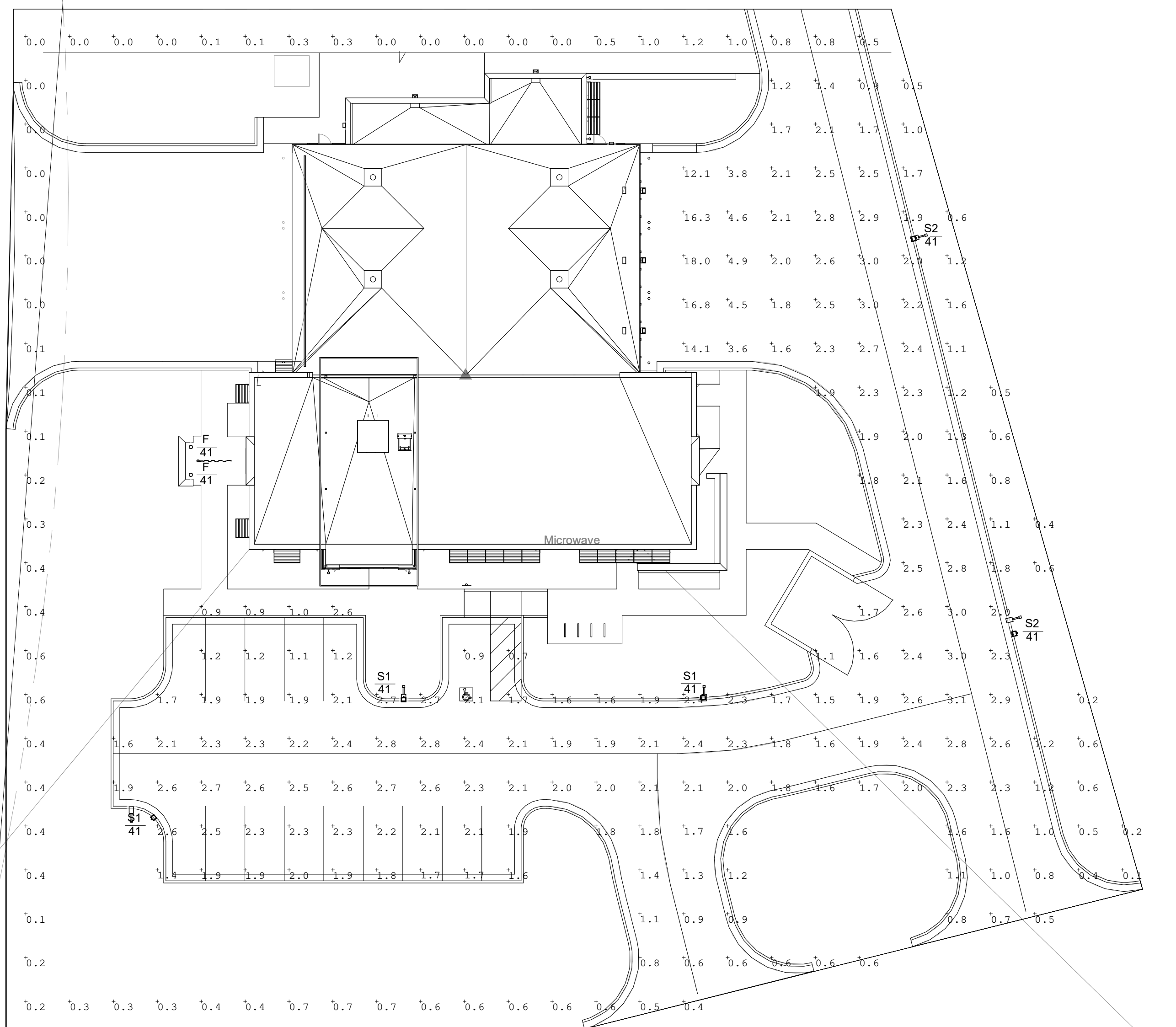
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SITE LIGHTING PHOTOMETRIC PLAN

ME002

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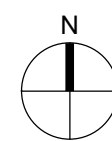
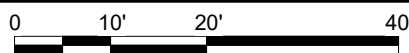
FIXTURE	MANUFACTURER	MODEL	LIGHT SOURCE				DIMMING TYPE	MOUNTING TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
			TYPE	LUMENS	COLOR TEMP	CR							
F	VISTA LIGHTING	1188-B-S35-C-MV-CX-ND-B34	LED	3000	3000 K	85	--	IN-GRADE	120	37	41	CAST-IN PLACE IN-GRADE LIQUID TIGHT FLAGPOLE FIXTURE	2.4,7
S1	LITHONIA	DSX1 LED P4 30K T4M MVOLT	LED	13165	3000 K	80	--	POLE	120	125	139	POLE MOUNTED SITE LIGHTING FIXTURE	2.10
S2	LITHONIA	DSX1 LED P4 30K T4M MVOLT HS	LED	13165	3000 K	80	--	POLE	120	125	139	POLE MOUNTED SITE LIGHTING WITH BACKLIGHT SHIELD FIXTURE	2.10
WL	MICROLINEA	ML3WLASY-D-CO(628LFF)-K40-80-12-R-FLA-F01M-EF-UNV-DIM10	LED	2578	3000 K	80	--	RECESSED	120	356	395	EXTERIOR LINEAR WALL-WASH FIXTURE. 4 FT SECTIONS, 7.5 W/FT. LUMENS OUTPUT PER 4 FT	2
WP	ACUITY	WDGE3 LED P2 P30K 80CRI MVOLT SRM	LED	8500	3000 K	80	--	WALL MOUNT	120	15	17	EXTERIOR WALL PACK	2
WS	BEGA	24 582	LED	1581	3000 K	85	--	WALL MOUNT	120	17	18	EXTERIOR WALL SQUARE DOWN LIGHT	2
WXE	ACUITY	WDGE2 P130K 80CRI VF MVOLT SRM	LED	1200	3000 K	80	--	WALL MOUNT	120	10	11	EXTERIOR WALL PACK WITH COLD-WEATHER EM BATTERY	2,4

7. PROVIDE FIXTURE WITH DIMMABLE DRIVER.
8. PROVIDE FIXTURE WITH COLD WEATHER DRIVER.
9. PROVIDE FIXTURE WITH EMERGENCY DRIVER.
10. PROVIDE FIXTURE WITH COLD WEATHER EMERGENCY DRIVER.
11. PROVIDE NUMBER OF FACES AND DIRECTIONAL ARROWS TO MATCH WHAT IS SHOWN ON DRAWINGS.
12. MOUNT FIXTURE 6'-4" ABOVE FINISHED GRADE.
13. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
14. PROVIDE CONTINUOUS RUN LENGTHS AS SHOWN ON PLANS.
15. MOUNT WITHIN ARCHITECTURE SPECIFIED HEIGHTS SHOWN. REFER TO ARCHITETUARAL PLAN FOR SUFFIE DETAIL.
16. POLE MOUNT FIXTURE AT 25'-0" ABOVE GRADE.

A. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES
B. PROVIDE ALL REQUIRED ACCESSORIES F

A1 SITE LIGHTING PHOTOMETRIC PLAN

1" = 20'-0"





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HVAC SYMBOLS LEGEND

M001

HVAC MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS	PIPE FITTINGS AND VALVES	DUCTWORK
CONTROLS (TOP OF DEVICE) 48" AFF	SHUT-OFF VALVE CHECK VALVE SHUT-OFF VALVE TRIPLE DUTY VALVE SOLENOID VALVE STRAINER STRAINER WITH BLOWOFF TWO-WAY CONTROL VALVE TWO-WAY CONTROL VALVE PRESSURE REDUCING VALVE PRESSURE GAUGE THERMOMETER BACKFLOW PREVENTER EXPANSION JOINT PIPE ANCHOR UNION REDUCER CAP ELBOW UP ELBOW DOWN TEE UP TEE DOWN SIAMESE CONNECTION	EQUIPMENT WITH FLEXIBLE DUCT CONNECTION SUPPLY AIR DUCT UP RETURN / EXHAUST AIR DUCT UP SUPPLY AIR DUCT DOWN RETURN / EXHAUST AIR DUCT DOWN FLEXIBLE DUCT ELBOW WITH TURNING VEINS MANUAL BALANCE DAMPER MOTORIZED DAMPER CONTROL DAMPER RELIEF DAMPER BACKDRAFT DAMPER FIRE DAMPER SMOKE DAMPER FIRE / SMOKE DAMPER SPIN-IN BRANCH DUCT CONNECTOR - WITH DAMPER IF SHOWN HIGH EFFICIENCY BRANCH DUCT CONNECTOR - WITH DAMPER IF SHOWN DUCT MOUNTED GRILLE / WALL GRILLE SUPPLY AIR DIFFUSER RETURN AIR DIFFUSER LINEAR SLOT DIFFUSER DIFFUSER, GRILLE, OR REGISTER TYPE CFM CONNECTION SIZE
DEFAULT MOUNTING HEIGHTS SHOWN ABOVE TO BE USED UNLESS NOTED OTHERWISE BY ARCHITECT OR IN CONSTRUCTION DOCUMENTS. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.		
ANNOTATIONS		
INDICATES CONNECTION TO EXISTING SYSTEM INDICATES DEMO FROM EXISTING SYSTEM PLAN NOTE REFERENCE SIM DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER SIM SECTION REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER MECHANICAL EQUIPMENT DESIGNATION PLUMBING EQUIPMENT DESIGNATION		
ABBREVIATIONS	PIPING	
A/C AIR CONDITIONING AFF ABOVE FINISHED CEILING AFG ABOVE FINISHED FLOOR AFH ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION AHU AIR HANDLING UNIT AP ACCESS PANEL APD AIR PRESSURE DROP BCU BLOWER COIL UNIT BHP BRAKE HORSEPOWER BOD BOTTOM OF DUCT BOP BOTTOM OF PIPE BOS BOTTOM OF STRUCTURE BTUH BRITISH THERMAL UNITS PER HOUR CAV CONSTANT AIR VOLUME CFH CUBIC FEET PER HOUR CFM CUBIC FEET PER MINUTE CH CHILLER CO CARBON MONOXIDE CO2 CARBON DIOXIDE CT COOLING TOWER CU CONDENSING UNIT CUH CABINET UNIT HEATER DDC DIRECT DIGITAL CONTROL DX DIRECT EXPANSION EA EXHAUST AIR EAT ENTERING AIR TEMPERATURE EDB ENTERING DRY BULB EF EXHAUST FAN EJ EXPANSION JOINT ESP EXTERNAL STATIC PRESSURE ETR EXISTING TO REMAIN EWB ENTERING WET BULB FCU FAN COIL UNIT FTU FAN TERMINAL UNIT GC GENERAL CONTRACTOR HD HEAD HP HEAT PUMP HSTAT HUMIDISTAT HTG HEATING HTR HEATER IN. WC INCHES OF WATER COLUMN LAT LEAVING AIR TEMPERATURE LDB LEAVING DRY BULB LWB LEAVING WET BULB LWT LEAVING WATER TEMPERATURE MAU MAKE-UP AIR UNIT MBH 1000 BTU PER HOUR MC MECHANICAL CONTRACTOR NC NOISE CRITERIA N/O, N/C NORMALLY OPEN, NORMALLY CLOSED OA OUTSIDE AIR PD PRESSURE DROP (FEET OF WATER) RA RETURN AIR RF RETURN FAN RH RELATIVE HUMIDITY RTU ROOFTOP UNIT SA SUPPLY AIR SF SUPPLY FAN SP STATIC PRESSURE STC SOUND TRANSMISSION CLASS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT TU TERMINAL UNIT UH UNIT HEATER UL UNDEWRITERS LABORATORIES, INC. UNO UNLESS NOTED OTHERWISE VAV VARIABLE AIR VOLUME VD VOLUME DAMPER VFD VARIABLE FREQUENCY DRIVE VRF VARIABLE REFRIGERANT FLOW WB WET BULB WC WATER COLUMN WT WEIGHT	---CWS--- CHILLED WATER SUPPLY ---CWR--- CHILLED WATER RETURN ---HCS--- HOT-CHILLED WATER SUPPLY ---HCR--- HOT-CHILLED WATER RETURN ---HWS--- HEATING HOT WATER SUPPLY ---HWR--- HEATING HOT WATER RETURN ---HPS--- HEATING HOT WATER SUPPLY ---HPR--- HEATING HOT WATER RETURN ---CD--- CONDENSATE DRAIN PIPING ---RL--- REFRIGERANT LIQUID ---RS--- REFRIGERANT SUCTION ---IN--- INTAKE PIPING ---EX--- EXHAUST PIPING	
	TEMPERATURE CONTROLS	
	RTU 1 THERMOSTAT / TEMPERATURE SENSOR SERVING RTU 1 HUMIDITY SENSOR / HUMIDISTAT REMOTE TEMPERATURE SENSOR REMOTE HUMIDITY SENSOR CARBON DIOXIDE SENSOR OCCUPANCY SENSOR CARBON MONOXIDE SENSOR STATIC PRESSURE SENSOR DIFFERENTIAL PRESSURE TRANSMITTER DIFFERENTIAL PRESSURE TRANSMITTER	
	LINETYPE LEGEND	
	EXISTING TO REMAIN NEW WORK DEMOLISH	

THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.

HVAC GENERAL NOTES

- A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADIUS OR MITERED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- B. COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY SYSTEM COMPONENTS.
- C. DUCTWORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- D. PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
- E. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES.
- F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
- G. BRANCH DUCTWORK TO DIFFUSERS, REGISTERS OR GRILLES SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.
- H. ALL RUNOUTS TO SUPPLY DIFFUSERS SHALL BE PROVIDED WITH BALANCING DAMPERS. PROVIDE CONCEALED DAMPER OPERATORS WHERE LOCATED ABOVE HARD CEILINGS.
- I. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.
- J. PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO BALANCING DAMPERS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. COORDINATE WITH THE ARCHITECTURAL TRADES.
- K. COORDINATE THE INSTALLATION OF PIPING AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES.
- L. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW EQUIPMENT.
- M. THE CONTRACTOR SHALL ARRANGE BRANCH PIPING TO VRF UNIT COILS SO THAT IT DOES NOT INTERFERE WITH ACCESS TO THE UNIT OR CONTROLS.
- N. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR SUPPORTS, ANCHORS, AND GUIDES. SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- O. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- P. ALL REFRIGERANT PIPING BETWEEN SPLIT SYSTEMS SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING SHALL BE ROUTED AT RIGHT ANGLES WITH RESPECT TO THE STRUCTURE, AND PAINTED TO MATCH WALL/ CEILING FINISHES WHERE EXPOSED. COORDINATE WITH GENERAL CONTRACTOR ANY LOCATIONS WHERE PIPING SHALL BE CONCEALED BEHIND FALSE CAVITIES OR FUR-OUTS.
- Q. ALL TEMPERATURE CONTROLS DEVICES AND WIRING REQUIRED FOR THE INSTALLATION OF THE LOW VOLTAGE PORTION OF THE TEMPERATURE CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE TEMPERATURE CONTROL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT AND BOXES REQUIRED FOR THE TEMPERATURE CONTROL SYSTEM UNDER THE SUPERVISION OF THE TEMPERATURE CONTROL CONTRACTOR.



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FIRE STATION #4
CITY OF LEE'S SUMMIT
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DRAWN BY:	CJ
CHK'D BY:	NB

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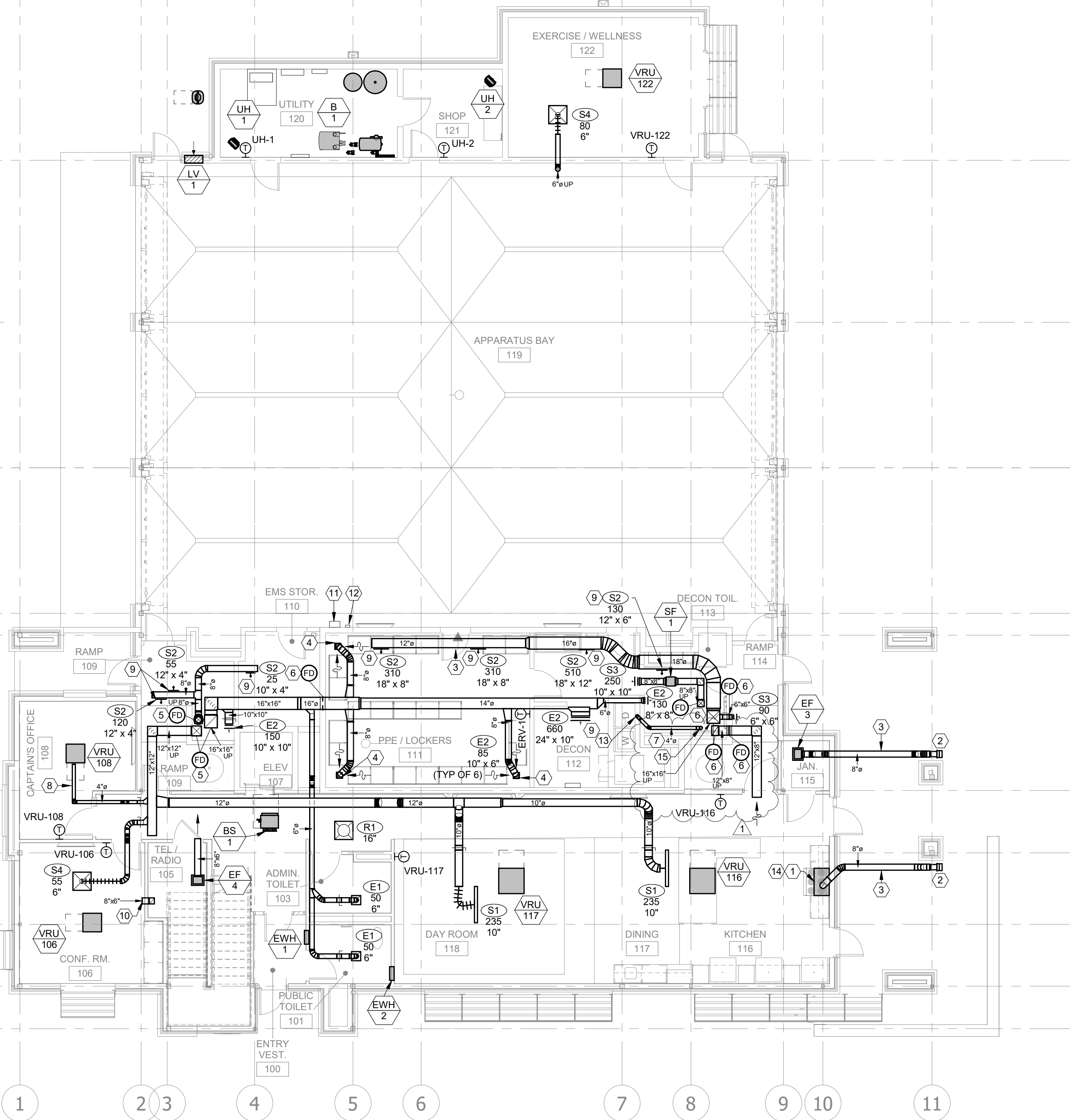
FIRST FLOOR
HVAC PLAN

M101

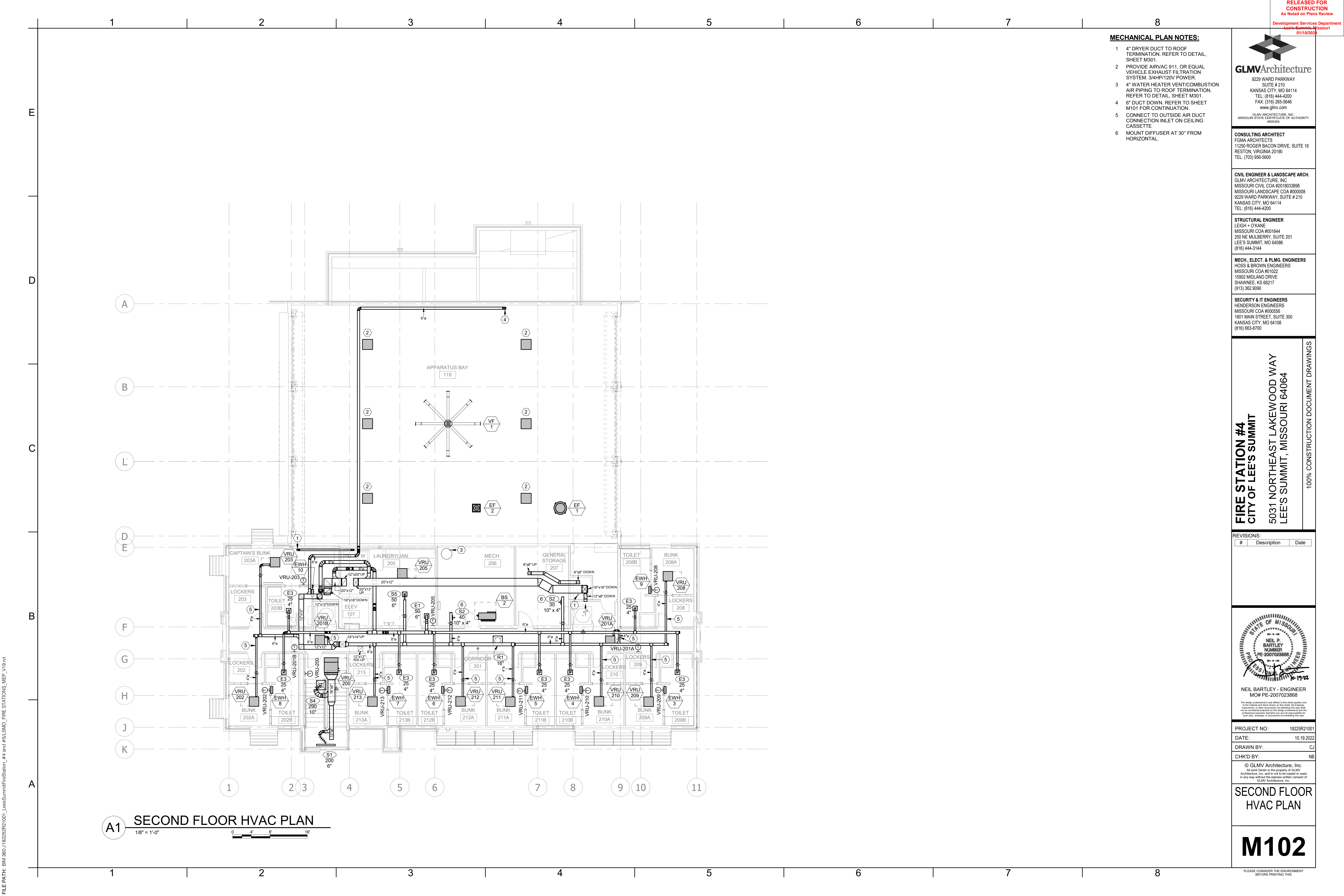
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MECHANICAL PLAN NOTES:

- 1 PROVIDE ZLINE, OR EQUAL, MODEL 597 36" STAINLESS STEEL WALL MOUNTED HOOD. MAXIMUM OF 500CFM AIRFLOW WITH INTEGRAL CONTROLS. PROVIDE MATCHING STAINLESS STEEL DUCT SHROUD LENGTH AS REQUIRED TO REACH THE CEILING HEIGHT.
- 2 PROVIDE BROAN, OR EQUAL, MODEL 647 WALL CAP WITH INTEGRAL BACKDRAFT DAMPER AND BIRD SCREEN.
- 3 ROUTE DUCT TIGHT TO THE BOTTOM OF STRUCTURE.
- 4 PROVIDE 8X8 PLENUM AT BOTTOM OF ROUND DUCT. PROVIDE (2) TYPE E2 EXHAUST GRILLES, ONE EACH FACING THE LOCKERS. BOTTOM OF GRILLE AT 18" AFF.
- 5 PROVIDE FIRE DAMPER AT FLOOR PENETRATION.
- 6 PROVIDE 3HR RATED FIRE DAMPER AT WALL/CEILING PENETRATION. COORDINATE PENETRATION WITH STRUCTURAL.
- 7 4" DRYER DUCT TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
- 8 CONNECT TO OUTSIDE AIR DUCT CONNECTION INLET ON CEILING CASSETTE
- 9 MOUNT DIFFUSER AT 30" FROM HORIZONTAL.
- 10 AIR TRANSFER FROM CONFERENCE-106 FOR EF-4. ROUTE DUCT TIGHT TO WALL TO 12" AFF.
- 11 AIR-VAC SYSTEM CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER AND MANUFACTURERS RECOMMENDATIONS. REFER TO SPECS.
- 12 MULTI-GAS SYSTEM CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER AND MANUFACTURERS RECOMMENDATIONS. REFER TO SPECS.
- 13 4" DRYER VENT.
- 14 PROVIDE FIRE SUPPRESSION SYSTEM WITHIN THE RANGE HOOD TYPICAL OF GUARDIAN MODEL #G3008. FURNISH WITH 3-PRONG APPLIANCE SHUTOFF. CONNECTION TO GAS SOLENOID VALVE AND WIRELESS RECEIVER FOR RANGE SHUT DOWN TO BE INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE WITH REMOTE MANUAL PULL STATION AND REMOTE ALARM STROBE ASSEMBLY. PROVIDE WITH PULL STATION FOR REMOTE ACTIVATION TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
- 15 PROVIDE CYCLONE, OR EQUAL, CWVSO 10X11X10 SHROUD AROUND DRYER DUCT PENETRATION.



A1 FIRST FLOOR HVAC PLAN
1/8" = 1'-0"
0 4' 8' 16'



MECHANICAL PLAN NOTES:

- 4" DRYER DUCT TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
- PROVIDE AIRVAC 911, OR EQUAL VEHICLE EXHAUST FILTRATION SYSTEM. 3/4HP/120V POWER.
- 4" WATER HEATER VENT/COMBUSTION AIR PIPING TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
- 6" DUCT DOWN. REFER TO SHEET M101 FOR CONTINUATION.
- CONNECT TO OUTSIDE AIR DUCT CONNECTION INLET ON CEILING CASSETTE
- MOUNT DIFFUSER AT 30° FROM HORIZONTAL.

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01/10/2023

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FIRE STATION #4
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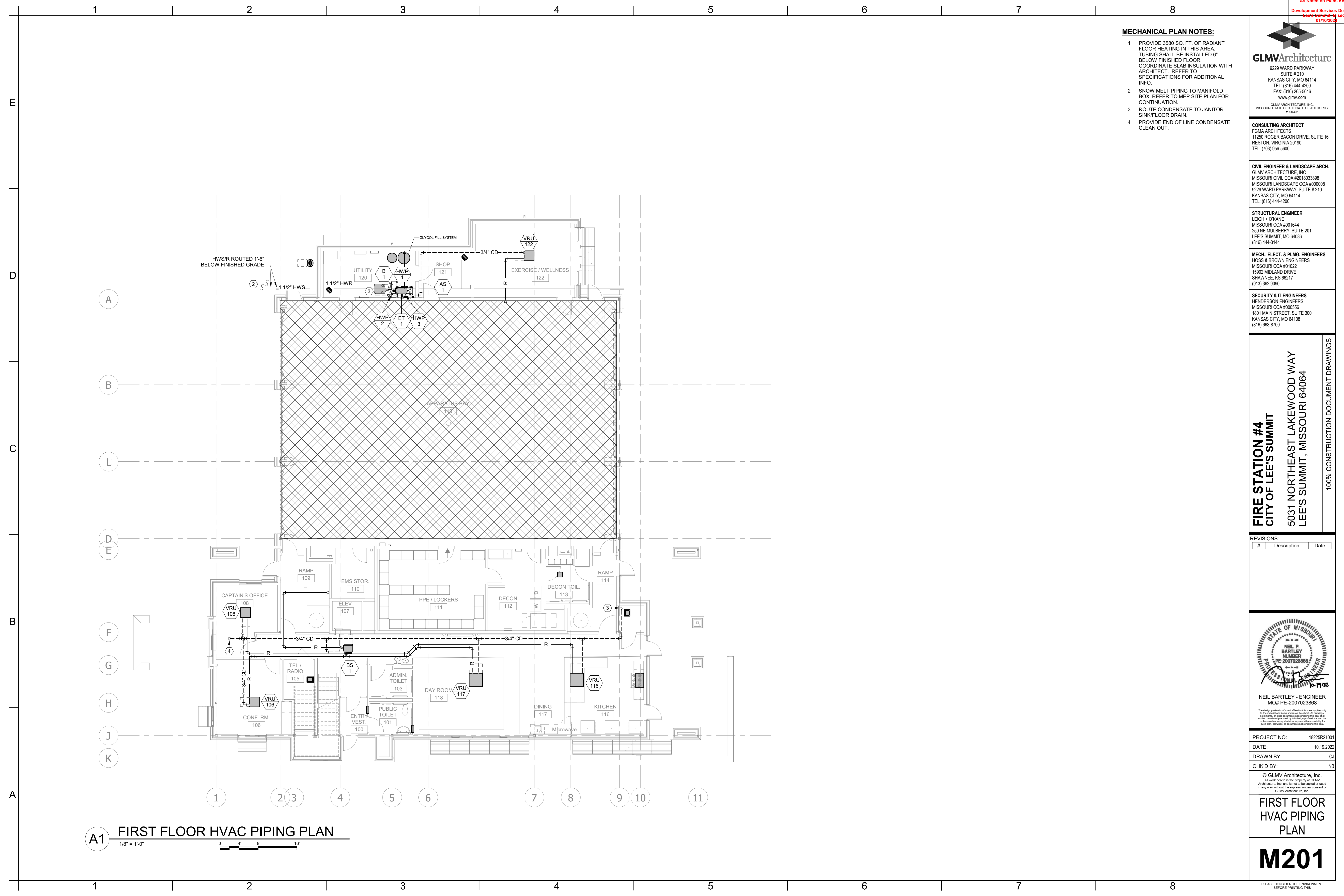
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SECOND FLOOR
HVAC PLAN

M102

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A1 FIRST FLOOR HVAC PIPING PLAN
1/8" = 1'-0"



- MECHANICAL PLAN NOTES:**
- 1 PROVIDE 3580 SQ. FT. OF RADIANT FLOOR HEATING IN THIS AREA. TUBING SHALL BE INSTALLED 6" BELOW FINISHED FLOOR. COORDINATE SLAB INSULATION WITH ARCHITECT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFO.
 - 2 SNOW MELT PIPING TO MANIFOLD BOX. REFER TO MEP SITE PLAN FOR CONTINUATION.
 - 3 ROUTE CONDENSATE TO JANITOR SINK/FLOOR DRAIN.
 - 4 PROVIDE END OF LINE CONDENSATE CLEAN OUT.



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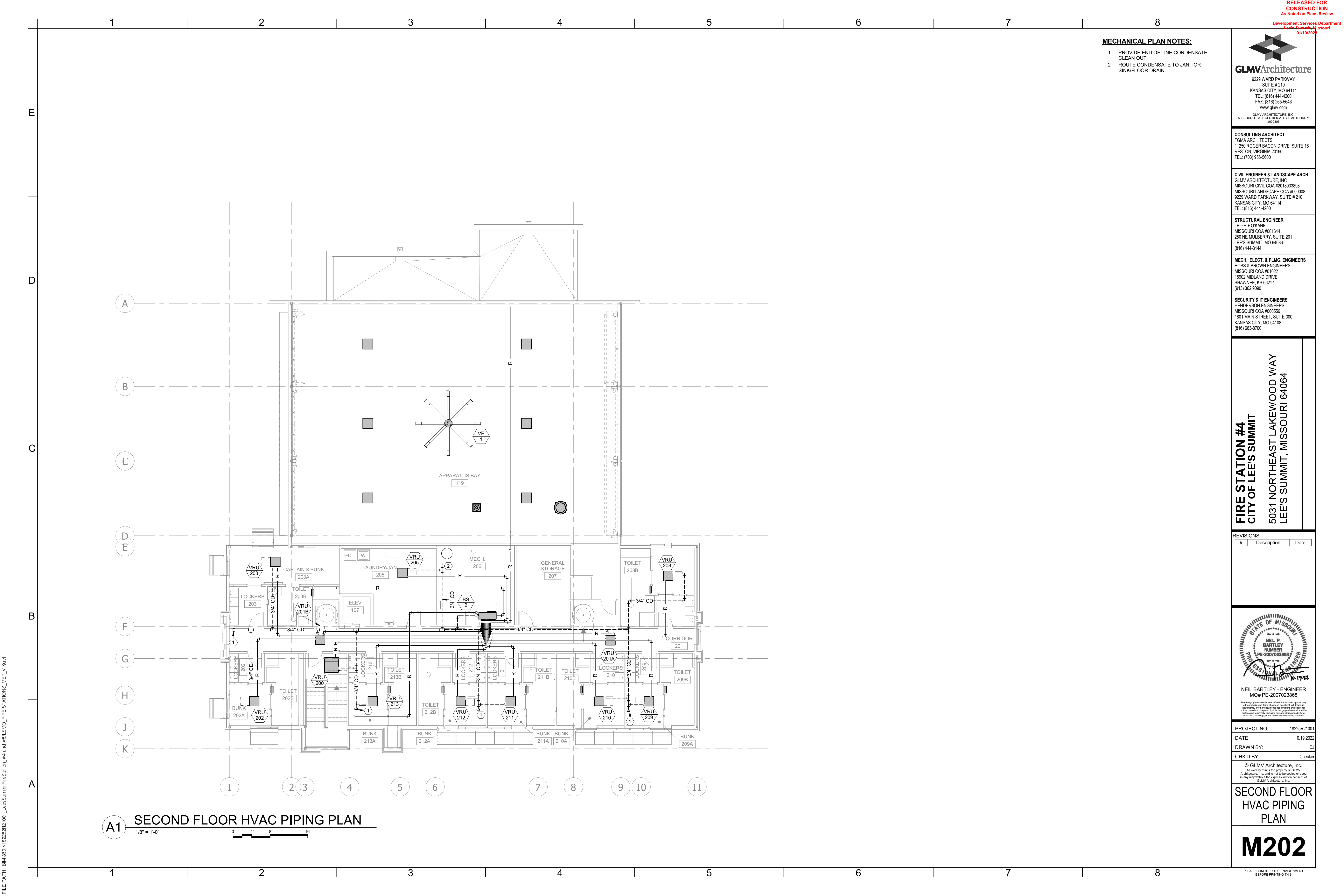
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**FIRST FLOOR
HVAC PIPING
PLAN**

M201

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MECHANICAL PLAN NOTES:

- 1 PROVIDE END OF LINE CONDENSATE CLEAN OUT.
- 2 ROUTE CONDENSATE TO JANITOR SINK/FLOOR DRAIN.

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SECOND FLOOR
HVAC PIPING
PLAN

M202

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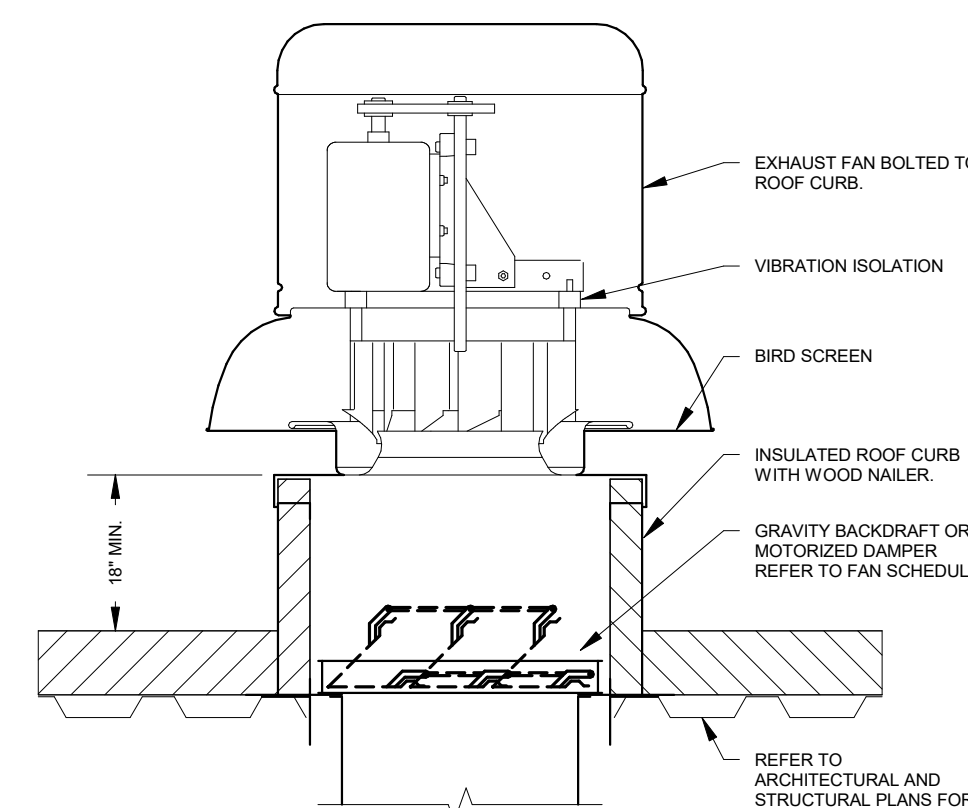
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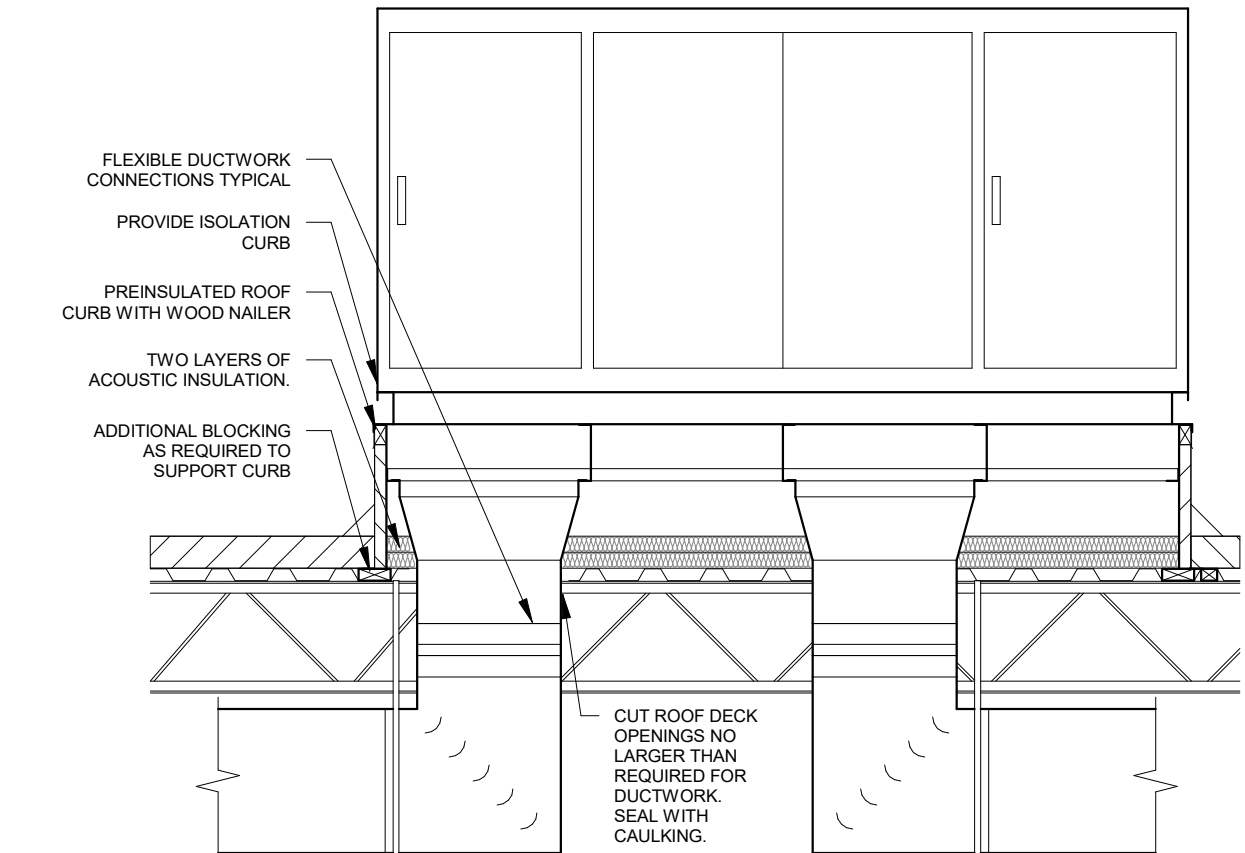
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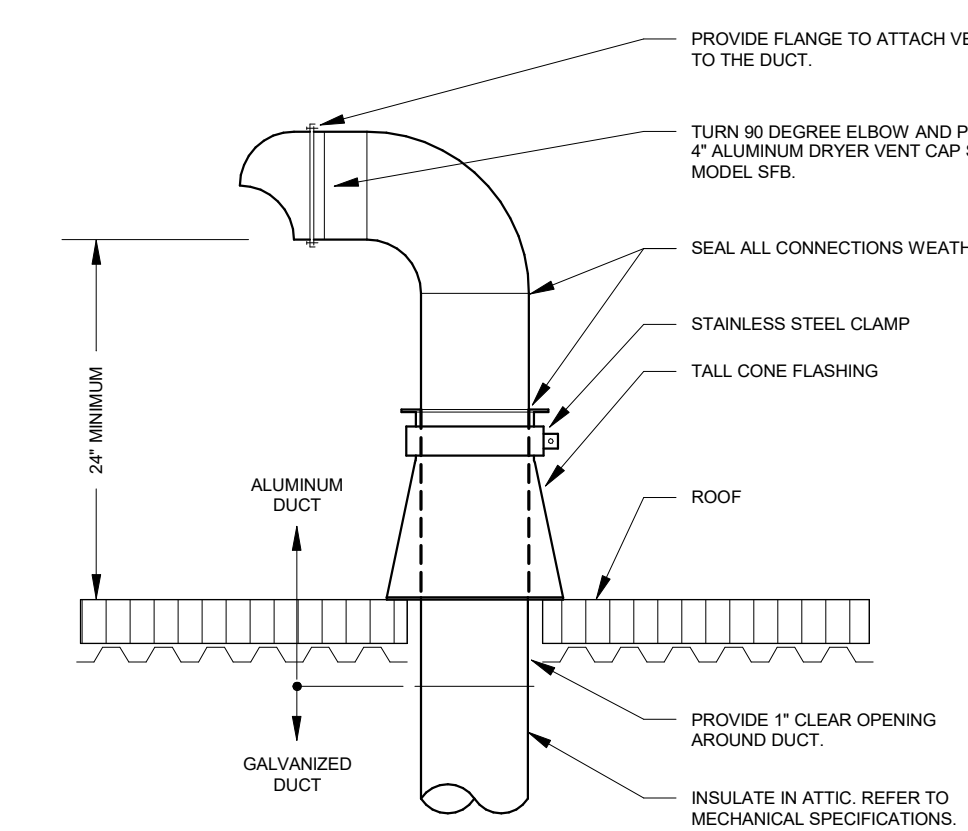
- NOTES:
- DUCT SIZES SHALL BE AS INDICATED ON THE PLANS.
 - PROVIDE ROOF CURB OF SUFFICIENT HEIGHT TO PROVIDE A MINIMUM 12" CLEARANCE FROM THE TOP OF THE CURB TO THE FINISHED ROOF.
 - DOWNBLAST FAN SHOWN, UPLAST FAN IS SIMILAR.
 - KITCHEN EXHAUST FAN IS SIMILAR. PROVIDE ADDITIONAL ACCESSORIES AND CLEARANCES TO THE ROOF AS INDICATED ON THE FAN SCHEDULE.
 - BOTTOM OF ROOF CURB SHALL MATCH THE SLOPE OF THE ROOF SO THAT THE TOP OF ROOF CURB IS LEVEL. ATTACH FAN TO CURB PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE ROOFING AND FLASHING PER ARCHITECTURAL AND/OR ROOF MANUFACTURER'S REQUIREMENTS.

D5 FAN EXHAUST ROOF
NOT TO SCALE



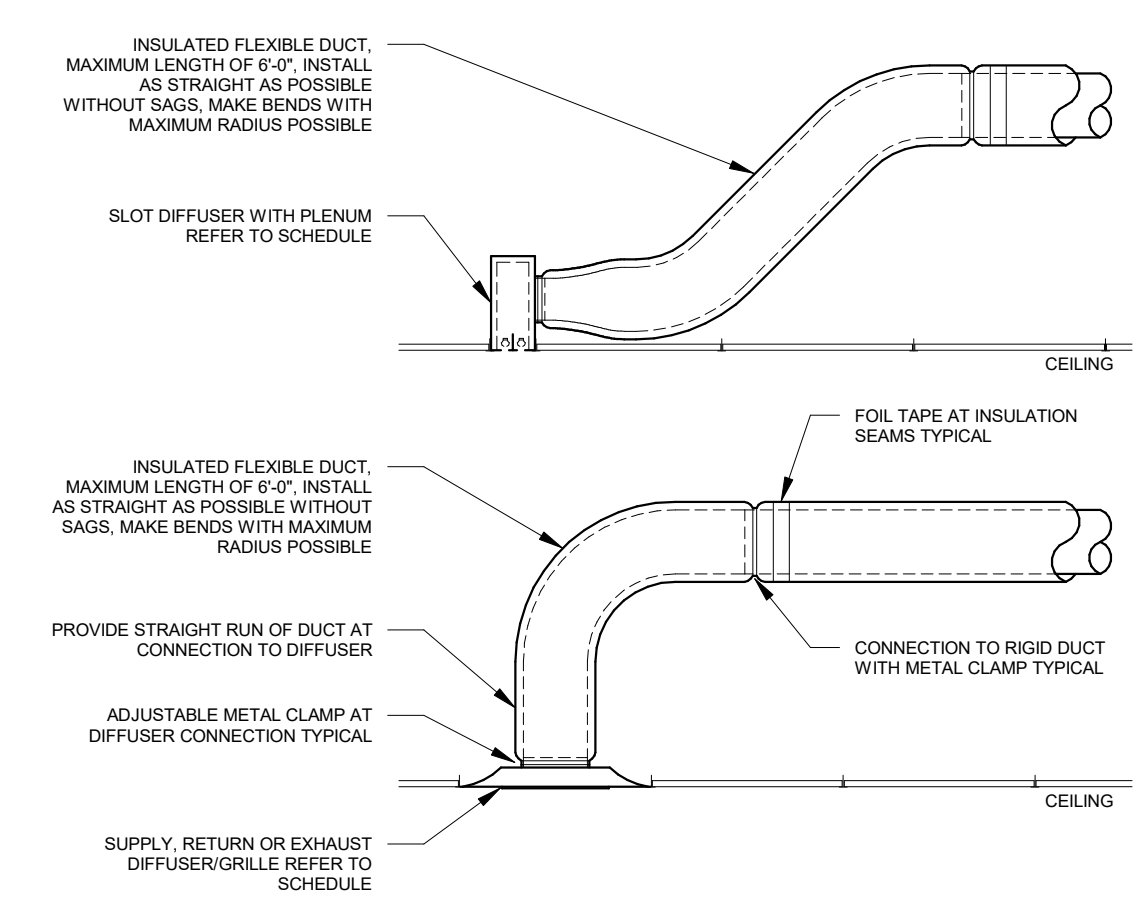
- NOTES:
- ROOFING, INSULATION, FLASHING AND COUNTER FLASHING TO BE INSTALLED PER ARCHITECTURAL PLANS, DETAILS AND SPECIFICATIONS.
 - BLOCKING AND SUPPORT SHALL BE INSTALLED PER THE STRUCTURAL PLANS, DETAILS AND SPECIFICATIONS.
 - CONTRACTOR TO PROVIDE GASKETING AT THE PERIMETER OF THE CURB AND AT ALL SUPPLY AND RETURN DUCT CHANNELS.
 - ACOUSTIC INSULATION SHALL BE INSTALLED OVER THE ENTIRE CURB BASE WITHOUT GAPS. PROVIDE OWENS CORNING SELECTSOUND 2" THICK ACOUSTIC BLANKET OR EQUAL.
 - CURB SHALL BE INSTALLED LEVEL. REFER TO ARCHITECTURAL PLANS FOR ROOF SLOPE.

B5 ROOF CURB RTU
NOT TO SCALE



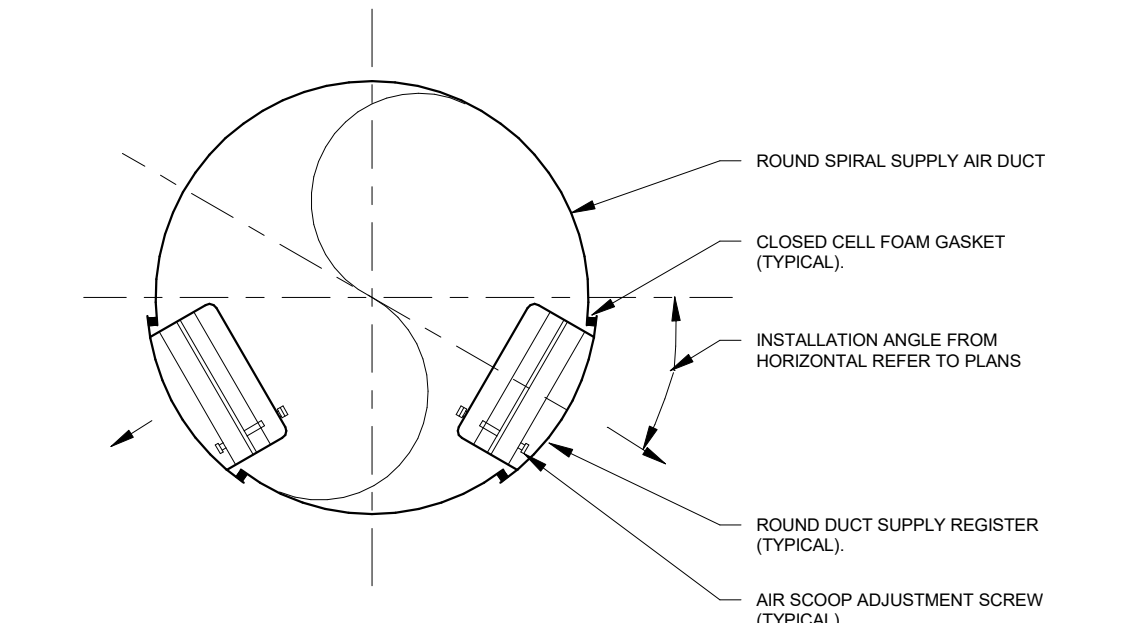
- NOTES:
- DUCT SIZES SHALL BE AS INDICATED ON THE PLANS.
 - PROVIDE ROOFING AND FLASHING PER ARCHITECTURAL AND/OR ROOF MANUFACTURER'S REQUIREMENTS.
 - USE POP RIVETS ON ALL DRYER VENT. SHEETMETAL SCREWS ARE NOT ACCEPTABLE.
 - THE MALE END OF THE DUCT AT OVERLAPPED DUCT JOINTS SHALL EXTEND IN THE DIRECTION OF AIRFLOW.

A5 VENT ROOF CLOTHES DRYER
NOT TO SCALE



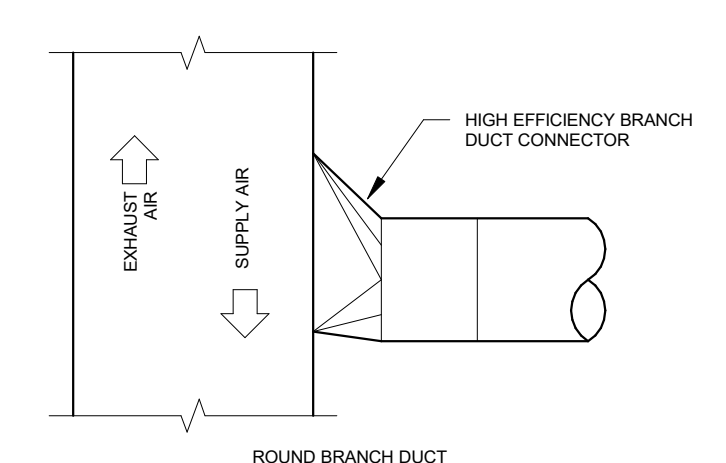
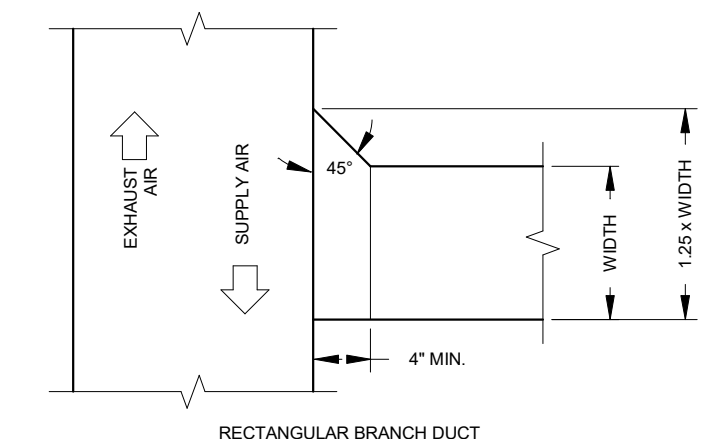
- NOTES:
- DUCT AND DIFFUSER SIZES SHALL BE AS INDICATED ON THE PLANS.
 - SUPPORT DUCTWORK PER SPECIFICATIONS.
 - COORDINATE CEILING TYPES WITH ARCHITECTURAL PLANS.

D7 DIFFUSER CONNECTION
NOT TO SCALE



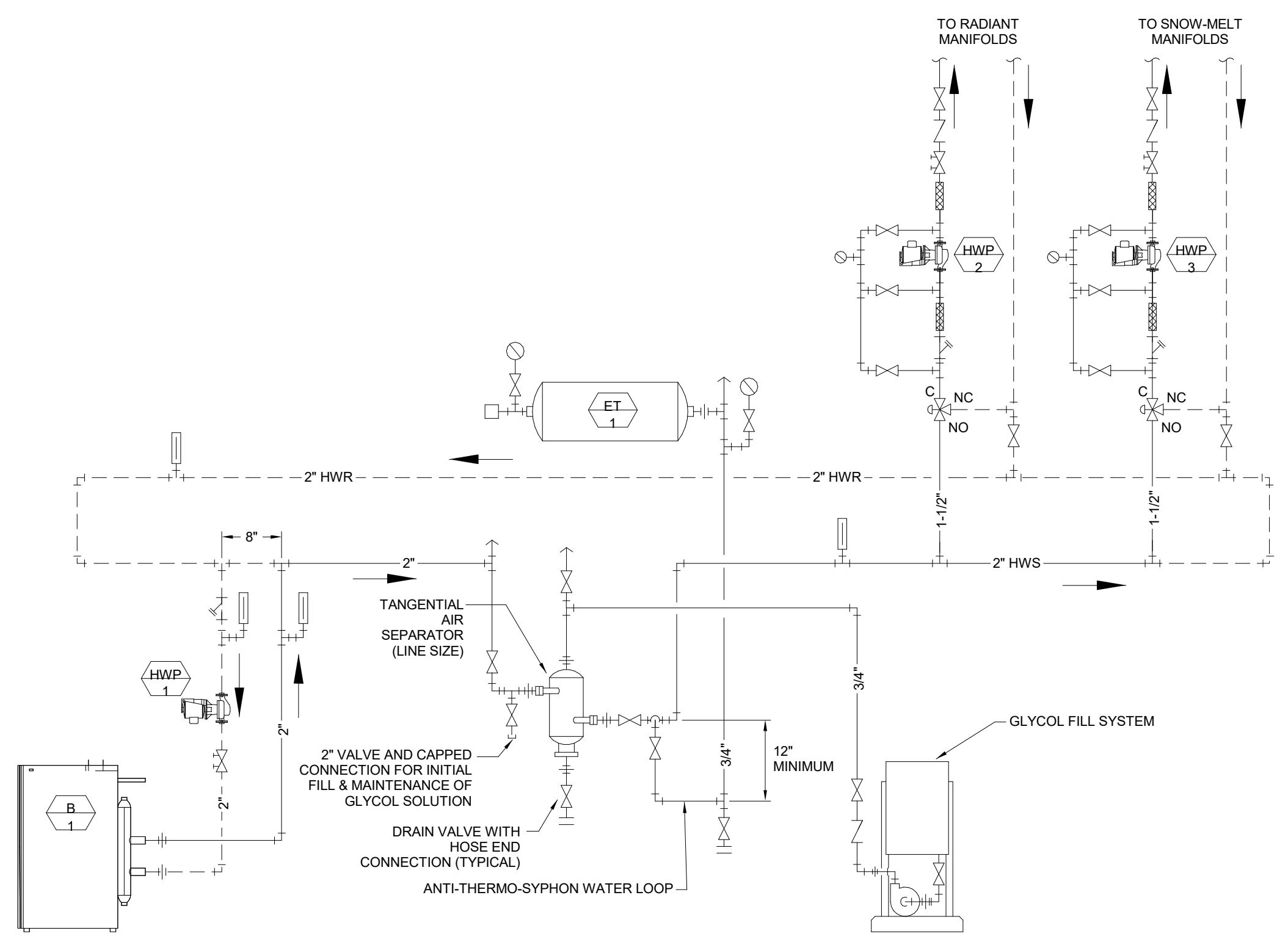
- NOTES:
- REFER TO EQUIPMENT SCHEDULES FOR REQUIRED ACCESSORIES AND FINISHES.
 - ADJUST BLADE DEFLECTION TO AIR DISTRIBUTION INDICATED ON THE PLANS.
 - ADJUST AIR SCOOP EXTRACTOR TO BALANCE GRILLES TO AIRFLOW INDICATED ON THE PLANS.

B7 DIFFUSER SUPPLY SPIRAL GRILLE
NOT TO SCALE



- NOTES:
- SUPPLY, RETURN AND EXHAUST FITTINGS ARE SIMILAR. ONLY DIRECTION OF AIRFLOW CHANGES.
 - REFER TO FLOOR PLANS FOR BRANCH LOCATIONS REQUIRING BALANCING DAMPERS.

A7 DUCT BRANCH CONNECTION
NOT TO SCALE



A2 Radiant Piping Schematic
NOT TO SCALE

- A. MANUFACTURER TO SIZE REFRIGERANT PIPING AND CALCULATE REFRIGERANT VOLUME REQUIRED. PROVIDE DIAGRAMS WITH SUBMITTALS.
- B. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE PUMP.
- C. PROVIDE 3/4" CONDENSATE LINE UNLESS OTHERWISE NOTED.

FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5/LSMO_FIRE STATIONS_MEP_V19.rvt

E

D

C

B

A

HVAC PIPE INSULATION							
INSULATION	DESCRIPTION						
TYPE 1	FIBER GLASS RIGID MOLDED INSULATION - JOHNS-MANVILLE MICRO-LOK, ASJ JACKET, K-VALUE = 0.23, MAX SERVICE TEMP = 850F VAPOR TRANSMISSION = 0.02 PERMS MAX, COMPLIES WITH ASTM C 547, CLASS 3, AND ASTM C1136 TYPE 1						
TYPE 2	ARMACELL AP/ARMAFLEX SS FOAM INSULATION, 3.0-6.0 PCF, K-VALUE = 0.25, MAX SERVICE TEMP. = 180F VAPOR PERMEABILITY = 0.05 PERM-IN COMPLIES WITH ASTM C534, TYPE 1, ASTM C1338 AND ASTM G22						
TYPE 3	PVC JACKETS, HIGH-IMPACT-RESISTANT, UV-RESISTANT, 30 MILS THICK, 1" OVERLAP AT LONGITUDINAL SEAMS AND END JOINTS COMPLIES WITH ASTM D 1784 AND CLASS 16354-C						
TYPE 4	ALUMINUM JACKETS, 0.016" THICK, EMBOSSED FINISH, LONGITUDINAL SLIP JOINTS AND 2" LAPS COMPLIES WITH ASTM B 209						
TYPE 5	ISULATED PIPE SUPPORTS, 360° PRE-MOLDED PIPE SUPPORTS, VAPOR BARRIER AND GALVANIZED STEEL SHIELD, FOR > 1 1/2" PIPES MINIMUM COMPRESSIVE STRENGTH: 100 PSIG FOR PIPE SIZE < 6", 450 PSIG FOR PIPE SIZE 6" AND LARGER						
INSULATED PIPE SUPPORTS							
PIPE SIZE		INSERT LENGTH	SHIELD LENGTH	SHIELD GAUGE	INSULATION	...	
1 1/2" TO 5"		6"	4"	20	TYPE 5	4	
6" TO 8"		9"	6"	16	TYPE 5	4	
10" TO 12"		9"	6"	14	TYPE 5	4	
14" AND LARGER		12"	10"	12	TYPE 5	4	
INSULATION THICKNESS FOR PIPES LOCATED WITHIN THE BUILDING THERMAL ENVELOPE							
PIPING SYSTEM	CONTINUOUS VAPOR BARRIER	PIPE SIZE				INSULATION	...
		< 1 1/2"	1 1/2" - 4"	5" - 6"	>= 8"		
HWS & HWR	NO	1 1/2"	2"	2"	2"	TYPE 1	1
COOL COIL...	YES	1/2"	1/2"	1/2"	1/2"	TYPE 2	2
REFRIG SUCTION	YES	3/4"	3/4"	3/4"	3/4"	TYPE 2	2
INSULATION THICKNESS FOR PIPES LOCATED OUTSIDE THE BUILDING THERMAL ENVELOPE							
PIPING SYSTEM	CONTINUOUS VAPOR BARRIER	PIPE SIZE				INSULATION	...
		<= 1 1/2"	2" - 4"	5" - 6"	>= 8"		
HWS & HWR	NO	1 1/2"	2"	2"	2"	TYPE 1,4	1
COOL COIL...	YES	1/2"	1/2"	1/2"	1/2"	TYPE 2	2
REFRIG SUCTION	YES	3/4"	3/4"	3/4"	3/4"	TYPE 2,4	2
NOTES:							
1.		ALL FITTINGS, VALVES, TEES, FLANGES, CONNECTIONS, ETC. SHALL BE INSULATED AND COVERED WITH THE APPROPRIATE PVC INSULATED FITTING COVERS. FITTING COVERS SHALL MATCH PVC JACKETS. (FOR FIBER GLASS INSULATION)					
2.		ALL FITTINGS, VALVES, TEES, FLANGES, CONNECTIONS, ETC. SHALL BE INSULATED AND COVERED WITH THE APPROPRIATE... FACTORY-FABRICATED INSULATION FITTINGS. PROVIDE ARMAFIX PRE-INSULATED PIPE HANGER FITTINGS AT ALL HANGER...					
3.		SEAL LONGITUDINAL SEAMS, ENG JOINTS AND PROTRUSIONS WITH VAPOR-BARRIER MASTIC AND JOINT SEALANT					
4.		PIPE INSERT THICKNESS SHALL BE EQUAL TO THE ADJOINING INSULATION THICKNESS					
GENERAL NOTES: (APPLY ALL TO ABOVE)							
A.		THE BASIS FOR FIBER GLASS PIPE INSULATION AND FITTING COVERS IS JOHNS-MANVILLE WHICH SHALL REPRESENT THE MINIMUM LEVEL OF CONSTRUCTION. PRODUCTS MANUFACTURED BY OWENS-CORNING AND KNAUF SHALL BE PERMITTED TO BID.					
B.		THE BASIS FOR FLEXIBLE ELASTOMERIC INSULATION IS ARMACELL WHICH SHALL REPRESENT THE MINIMUM LEVEL OF ... PRODUCTS MANUFACTURED BY AEROFLEX SHALL BE PERMITTED TO BID.					
C.		INSTALL ALL PIPE INSULATION PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.					
D.		INSTALL INSULATION CONTINUOUSLY THROUGH PENETRATIONS					

DUCT INSULATION SCHEDULE					
INSULATION	DESCRIPTION				
TYPE 1	WRAP INSULATION - CERTAINTeed SOFTTOUCH, TYPE 150, FSK FACED, 1 1/2" THICK, 1.5 PCF, K-VALUE = 0.24, R-VALUE = 6.2, VAPOR TRANSMISSION = 0.02 PERMS MAX. COMPLIES WITH ASTM C553 TYPE II, ASTM C1290 AND ASTM C1338 FUNGI RESISTANCE				
TYPE 2	WRAP INSULATION - CERTAINTeed SOFTTOUCH, TYPE 75, FSK FACED, 3" THICK, 0.75 PCF, K-VALUE = 0.31, R-VALUE = 9.6, VAPOR TRANSMISSION = 0.02 PERMS MAX. COMPLIES WITH ASTM C553 TYPE II, ASTM C1290 AND ASTM C1338 FUNGI RESISTANCE				
TYPE 3	ROUND DUCT LINER - CERTAINTeed ULTRAROUND DUCT LINER, 1" THICK, K-VALUE = 0.23, R-VALUE = 4.3, NRC = 0.75. COMPLIES WITH ASTM C1071 TYPE I, ASTM G22 BACTERIA RESISTANCE AND ASTM C1338 FUNGI RESISTANCE.				
TYPE 4	DUCT LINER - CERTAINTeed TOUGHGARD R DUCT LINER, TYPE 200, 1/2" THICK, 2.0 PCF, K-VALUE = 0.24, R-VALUE = 2.1, NRC = 0.45. COMPLIES WITH ASTM C1071 TYPE I, ASTM G22 BACTERIA RESISTANCE AND ASTM C1338 FUNGI RESISTANCE.				
DUCT WITHIN THE BUILDING THERMAL ENVELOPE					
DUCT TYPE - CONCEALED	INSULATION	NOTES	DUCT TYPE - EXPOSED	INSULATION	NOTES
ROUND LOW PRESSURE SUPPLY AIR	TYPE 1	-	ROUND LOW PRESSURE SUPPLY AIR	TYPE 3	-
ROUND LOW PRESSURE RETURN AIR	NONE	-	ROUND LOW PRESSURE RETURN AIR	NONE	-
ROUND OUTDOOR AIR	TYPE 2	-	ROUND OUTDOOR AIR	TYPE 2	-
ROUND VENTILATION AIR	NONE	-	ROUND VENTILATION AIR	NONE	-
ROUND MIXED AIR	TYPE 1	-	ROUND MIXED AIR	TYPE 1	-
ROUND LOW PRESSURE EXHAUST AIR	NONE	-	ROUND LOW PRESSURE EXHAUST AIR	NONE	-
ROUND LOW PRESSURE RELIEF AIR	TYPE 2	-	ROUND LOW PRESSURE RELIEF AIR	TYPE 2	-
RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 1	-	RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 1	-
RECTANGULAR LOW PRESSURE RETURN AIR	NONE	-	RECTANGULAR LOW PRESSURE RETURN AIR	NONE	-
RECTANGULAR OUTDOOR AIR	TYPE 2	-	RECTANGULAR OUTDOOR AIR	TYPE 2	-
RECTANGULAR VENTILATION AIR	NONE	-	RECTANGULAR VENTILATION AIR	NONE	-
RECTANGULAR MIXED AIR	TYPE 1	-	RECTANGULAR MIXED AIR	TYPE 1	-
RECTANGULAR LOW PRESSURE EXHAUST AIR	NONE	-	RECTANGULAR LOW PRESSURE EXHAUST AIR	NONE	-
RECTANGULAR LOW PRESSURE RELIEF AIR	TYPE 2	-	RECTANGULAR LOW PRESSURE RELIEF AIR	TYPE 2	-
DUCT OUTSIDE THE BUILDING THERMAL ENVELOPE					
DUCT TYPE - CONCEALED	INSULATION	NOTES	DUCT TYPE - EXPOSED	INSULATION	NOTES
ROUND LOW PRESSURE SUPPLY AIR	TYPE 2	-	ROUND LOW PRESSURE SUPPLY AIR	TYPE 2	-
ROUND LOW PRESSURE RETURN AIR	TYPE 2	-	ROUND LOW PRESSURE RETURN AIR	TYPE 2	-
ROUND OUTDOOR AIR	TYPE 1	-	ROUND OUTDOOR AIR	TYPE 1	-
ROUND VENTILATION AIR	TYPE 2	-	ROUND VENTILATION AIR	NONE	-
ROUND MIXED AIR	TYPE 2	-	ROUND MIXED AIR	TYPE 2	-
ROUND LOW PRESSURE EXHAUST AIR	TYPE 1	-	ROUND LOW PRESSURE EXHAUST AIR	TYPE 1	-
ROUND LOW PRESSURE RELIEF AIR	NONE	-	ROUND LOW PRESSURE RELIEF AIR	NONE	-
RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 2	-	RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 2	-
RECTANGULAR LOW PRESSURE RETURN AIR	TYPE 2	-	RECTANGULAR LOW PRESSURE RETURN AIR	TYPE 2	-
RECTANGULAR OUTDOOR AIR	TYPE 1	-	RECTANGULAR OUTDOOR AIR	TYPE 2	-
RECTANGULAR VENTILATION AIR	TYPE 2	-	RECTANGULAR VENTILATION AIR	NONE	-
RECTANGULAR MIXED AIR	TYPE 2	-	RECTANGULAR MIXED AIR	TYPE 2	-
RECTANGULAR LOW PRESSURE EXHAUST AIR	TYPE 1	-	RECTANGULAR LOW PRESSURE EXHAUST AIR	TYPE 1	-
RECTANGULAR LOW PRESSURE RELIEF AIR	NONE	-	RECTANGULAR LOW PRESSURE RELIEF AIR	NONE	-
ACOUSTICALLY LINED DUCTS					
DUCT TYPE	INSULATION	NOTES	DUCT TYPE	INSULATION	NOTES
RECTANGULAR SUPPLY AIR AT CENTRAL UNIT	TYPE 4	1	RECTANGULAR EXHAUST AIR	TYPE 4	4
RECTANGULAR SUPPLY AIR AT FAN TERMINAL UNIT	TYPE 4	2	RECTANGULAR RETURN AIR BOOTS	TYPE 4	-
RECTANGULAR RETURN AIR AT CENTRAL UNIT	TYPE 4	3	RECTANGULAR RETURN AIR TRANSFERS	TYPE 4	-
NOTES:					
1. THE VERTICAL DUCTWORK FROM THE UNIT DISCHARGE TO HORIZONTAL AND THE FIRST 10 FEET OF HORIZONTAL DUCTWORK IN ALL DIRECTIONS (TYPICAL FOR CENTRAL AHU, RTU, MAU, DOAU, ETC.)					
2. THE FIRST 10 FEET OF DUCTWORK FROM THE FAN TERMINAL OUTLET.					
3. THE VERTICAL DUCTWORK FROM THE UNIT INLET TO HORIZONTAL AND THE FIRST 10 FEET OF HORIZONTAL DUCTWORK IN ALL DIRECTIONS (TYPICAL FOR CENTRAL AHU, RTU, MAU, DOAU, ETC.)					
4. THE FIRST 10 FEET OF DUCTWORK FROM THE EXHAUST FAN INLET.					
GENERAL NOTES (APPLY ALL TO ABOVE):					
A. THE BASIS FOR THE DUCT INSULATION IN THIS SCHEDULE IS CERTAIN-TEED WHICH SHALL REPRESENT THE MINIMUM LEVEL OF CONSTRUCTION. PRODUCTS MANUFACTURED BY OWENS-CORNING, JOHNS-MANSVILLE, KNAUF, 3M, FIREMASTER AND AEROFLEX SHALL BE PERMITTED TO BID.					
B. REFER TO FLOOR PLANS AS ADDITIONAL INSULATION REQUIREMENTS MAY BE INDICATED THERE.					
C. THE REQUIREMENT FOR ACOUSTICAL INSULATION IS IN ADDITION TO THE THERMAL INSULATION REQUIREMENT. PROVIDE EXTERNAL THERMAL INSULATION AND INTERNAL ACOUSTICAL LINER AS INDICATED.					
D. INSTALL ALL DUCT INSULATION PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.					
DEFINITIONS:					
SUPPLY AIR: CONDITIONED AIR FROM AN AIR HANDLING SYSTEM TO AN OCCUPIED SPACE					
RETURN AIR: AIR FROM AN OCCUPIED SPACE BACK TO AN AIR HANDLING SYSTEM					
VENTILATION AIR: CONDITIONED AIR FROM THE DISCHARGE OF THE DOAS TO THE OCCUPIED SPACE					
RELIEF AIR: AIR DOWNSTREAM OF THE DOAS/ERW ENERGY RECOVERY SYSTEM TO OUTSIDE THE BUILDING					
OUTSIDE AIR: UNCONDITIONED AIR FROM OUTSIDE THE BUILDING TO AN AIR HANDLING SYSTEM					
EXHAUST AIR: AIR THAT IS REMOVED FROM A BUILDING SPACE AND CONVEYED TO OUTSIDE THE BUILDING					
LOW PRESSURE: LESS THAN 2" STATIC PRESSURE					
CONCEALED LOCATION: DUCT IS LOCATED ABOVE A CEILING, WITHIN CHASE OR SHAFT, ETC.					
EXPOSED LOCATION: DUCT IS NOT CONCEALED WITH THE BUILDING CONSTRUCTION (FINISHED SPACES, OR UNFINISHED SUCH AS MECHANICAL ROOMS)					

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As Noted on Plans Review

Development Services Department

Lee's Summit, Missouri

01/10/2023

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NEIL P. BARTLEY

NUMBER

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10-17-22

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DATE:

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DRAWN BY:

CJ

CHK'D BY:

N. BARTLEY

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MECHANICAL SCHEDULES

M402

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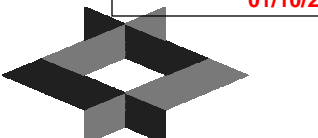
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PLUMBING MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS	PIPE FITTINGS AND VALVES
REFER TO ARCHITECTURAL ELEVATIONS FOR PLUMBING FIXTURE MOUNTING HEIGHTS, UNO.	SHUT-OFF VALVE
WALL CLEANOUT TOILET COLD WATER SUPPLY ROUGH-IN HOSE BIBBS	CHECK VALVE
12" AFF 12" AFF 36" AFF TO CENTER	SHUT-OFF VALVE
ANNOTATIONS	TRIPLE DUTY VALVE
INDICATES CONNECTION TO EXISTING SYSTEM	SOLENOID VALVE
INDICATES DEMO FROM EXISTING SYSTEM	STRAINER
PLAN NOTE REFERENCE	STRAINER WITH BLOWOFF
1 A101 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER	TWO-WAY CONTROL VALVE
1 A101 SECTION REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER	TWO-WAY CONTROL VALVE
FCU 444 MECHANICAL EQUIPMENT DESIGNATION	PRESSURE REDUCING VALVE
WH-5 3" PLUMBING EQUIPMENT DESIGNATION w/ WASTE CONNECTION SIZE	PRESSURE GAUGE
ABBREVIATIONS	THERMOMETER
AD ACCESS DOOR	BACKFLOW PREVENTER
ADA AMERICANS WITH DISABILITIES ACT	EXPANSION JOINT
AFF ABOVE FINISHED FLOOR	PIPE ANCHOR
AFG ABOVE FINISHED GRADE	UNION
AHJ AUTHORITY HAVING JURISDICTION	REDUCER
BAS BUILDING AUTOMATION SYSTEM	CAP
BFF BELOW FINISHED FLOOR	ELBOW UP
BFG BELOW FINISHED GRADE	ELBOW DOWN
BOP BOTTOM OF PIPE	TEE UP
BOS BOTTOM OF STRUCTURE	TEE DOWN
CP CONDENSATE PUMP	SIAMESE CONNECTION
DEMO DEMOLITION	PIPING
DFU DRAINAGE FIXTURE UNIT	WASTE LINE ABOVE FLOOR
DN DOWN	WASTE LINE BELOW FLOOR
DS DOWNSPOUT	GW GREASE WASTE LINE ABOVE FLOOR
ETR EXISTING TO REMAIN	GW GREASE WASTE LINE BELOW FLOOR
EWIC ELECTRIC WATER COOLER	VENT LINE
FD FLOOR DRAIN	DOMESTIC COLD WATER
FFA FROM FLOOR ABOVE	DOMESTIC HOT WATER
FFB FROM FLOOR BELOW	DOMESTIC HOT WATER RECIRC.
FL FLOW LINE	DOMESTIC TEMPERED HOT WATER
FLA FULL LOAD AMPS	140 DEGREE DOMESTIC HOT WATER
FR FROM	ROOF DRAIN ABOVE FLOOR
GPM GALLONS PER MINUTE	ROOF DRAIN BELOW FLOOR
HD HEAD, HUB DRAIN	AW ACID WASTE ABOVE FLOOR
IE INVERT ELEVATION	AW ACID WASTE BELOW FLOOR
IN WC INCHES OF WATER COLUMN	AV ACID VENT BELOW FLOOR
MBH 1000 BTU PER HOUR	CA COMPRESSED AIR
MH MANHOLE	G NATURAL GAS
N/A NOT APPLICABLE	W DOMESTIC WATER SERVICE
NIC NOT IN CONTRACT	CD CONDENSATE DRAIN
N/O, N/C NORMALLY OPEN, NORMALLY CLOSED	PLUMBING EQUIPMENT
ORD OVERFLOW ROOF DRAIN	FLUSH FLOOR CLEANOUT
PROVIDE FURNISH AND INSTALL	FLUSH GRADE CLEANOUT
PRV PRESSURE REDUCING VALVE	WALL CLEANOUT
PSI POUNDS PER SQUARE INCH	ROOF DRAIN
QTY QUANTITY	FLUSH DRAIN
RCP REINFORCED CONCRETE PIPE	FLOOR SINK
RD ROOF DRAIN	HOSE BIB
SF SQUARE FEET	WALL HYDRANT
SP SUMP PUMP	PLUMBING FIXTURE (REFER TO SCHEDULE)
SS STAINLESS STEEL, SERVICE SINK, SANITARY SEWER	
STM STEAM	
TDH TOTAL DYNAMIC HEAD	
TFA TO FLOOR ABOVE	
TFB TO FLOOR BELOW	
UL UNDERWRITERS LABORATORIES	
UNO UNLESS NOTED OTHERWISE	
VFD VARIABLE FREQUENCY DRIVE	
VS VENT STACK	
VTR VENT THROUGH ROOF	
WC WATER COLUMN, WATER CLOSET	
WH WALL HYDRANT	
WS WASTE STACK	
LINETYPE LEGEND	THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.
EXISTING TO REMAIN	
NEW WORK	
DEMOLISH	

PLUMBING GENERAL NOTES:

- GENERAL EXTENT OF THE WORK.
PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY COMPONENTS AND OFFSETS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
- COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
- PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL HEATING COILS, OR OTHER EQUIPMENT.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
- COORDINATE THE SHUT DOWN OF ANY EXISTING SERVICES AND/OR EQUIPMENT WITH THE OWNER'S REPRESENTATIVE.
- PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF THE PARAPET.
- PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".
- ALL ROOF DRAIN PIPING SHALL BE ROUTED AT 1/8" FALL PER FOOT. COORDINATE INSTALLATION WITH OTHER TRADES.



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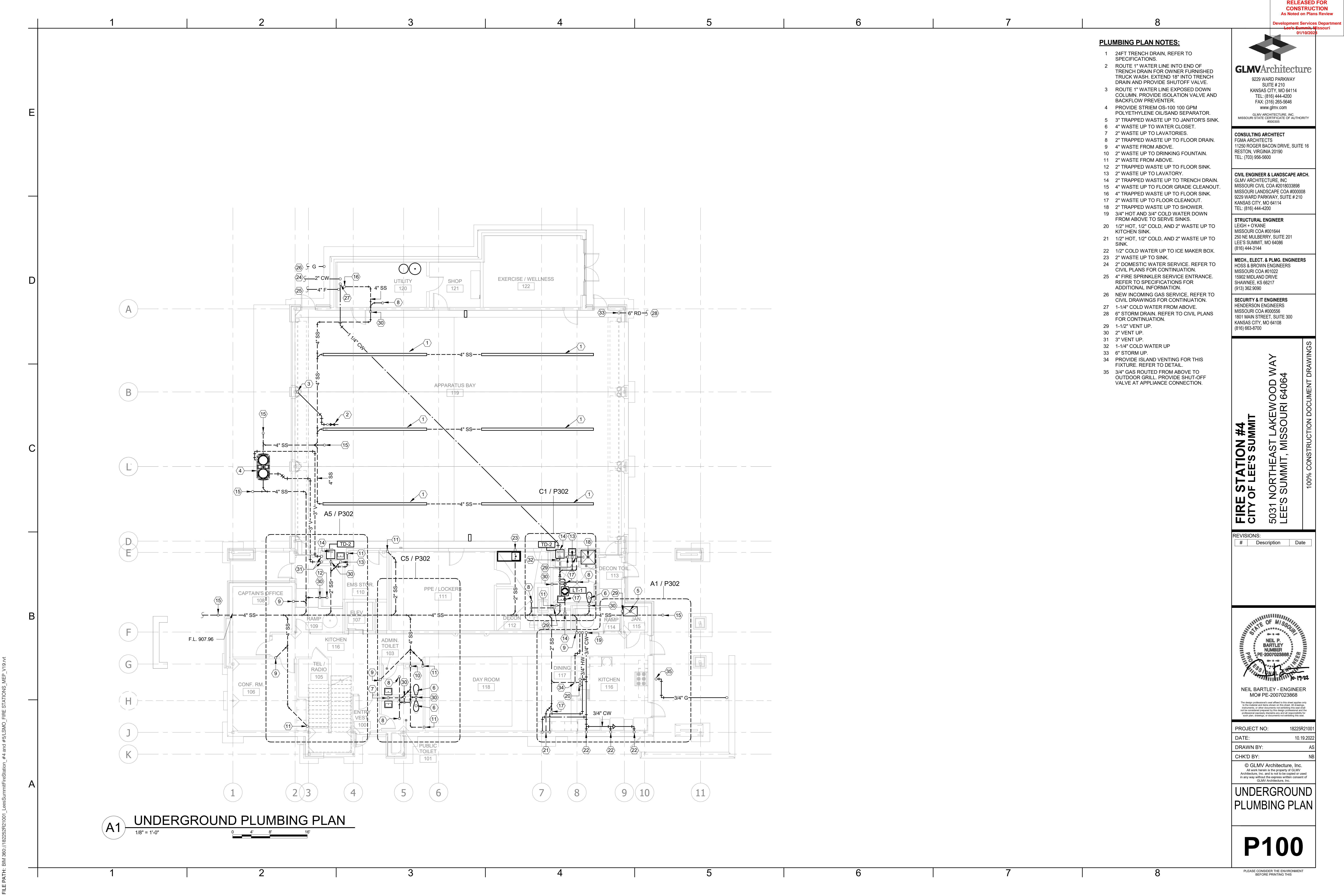
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PLUMBING SYMBOLS LEGEND

P001



- PLUMBING PLAN NOTES:**
- 24FT TRENCH DRAIN. REFER TO SPECIFICATIONS.
 - ROUTE 1" WATER LINE INTO END OF TRENCH DRAIN FOR OWNER FURNISHED TRUCK WASH. EXTEND 18" INTO TRENCH DRAIN AND PROVIDE SHUTOFF VALVE.
 - ROUTE 1" WATER LINE EXPOSED DOWN COLUMN. PROVIDE ISOLATION VALVE AND BACKFLOW PREVENTER.
 - PROVIDE STRIEM OS-100 100 GPM POLYETHYLENE OIL/SAND SEPARATOR.
 - 3" TRAPPED WASTE UP TO JANITOR'S SINK.
 - 4" WASTE UP TO WATER CLOSET.
 - 2" WASTE UP TO LAVATORIES.
 - 2" TRAPPED WASTE UP TO FLOOR DRAIN.
 - 4" WASTE FROM ABOVE.
 - 2" WASTE UP TO DRINKING FOUNTAIN.
 - 2" WASTE FROM ABOVE.
 - 2" TRAPPED WASTE UP TO FLOOR SINK.
 - 2" WASTE UP TO LAVATORY.
 - 2" TRAPPED WASTE UP TO TRENCH DRAIN.
 - 4" WASTE UP TO FLOOR GRADE CLEANOUT.
 - 4" TRAPPED WASTE UP TO FLOOR SINK.
 - 2" WASTE UP TO FLOOR CLEANOUT.
 - 2" TRAPPED WASTE UP TO SHOWER.
 - 3/4" HOT AND 3/4" COLD WATER DOWN FROM ABOVE TO SERVE SINKS.
 - 1/2" HOT, 1/2" COLD, AND 2" WASTE UP TO KITCHEN SINK.
 - 1/2" HOT, 1/2" COLD, AND 2" WASTE UP TO SINK.
 - 1/2" COLD WATER UP TO ICE MAKER BOX.
 - 2" WASTE UP TO SINK.
 - 2" DOMESTIC WATER SERVICE. REFER TO CIVIL PLANS FOR CONTINUATION.
 - 4" FIRE SPRINKLER SERVICE ENTRANCE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - NEW INCOMING GAS SERVICE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 - 1-1/4" COLD WATER FROM ABOVE.
 - 6" STORM DRAIN. REFER TO CIVIL PLANS FOR CONTINUATION.
 - 1-1/2" VENT UP.
 - 2" VENT UP.
 - 3" VENT UP.
 - 1-1/4" COLD WATER UP
 - 6" STORM UP.
 - PROVIDE ISLAND VENTING FOR THIS FIXTURE. REFER TO DETAIL.
 - 3/4" GAS ROUTED FROM ABOVE TO OUTDOOR GRILL. PROVIDE SHUT-OFF VALVE AT APPLIANCE CONNECTION.



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UNDERGROUND PLUMBING PLAN

P100

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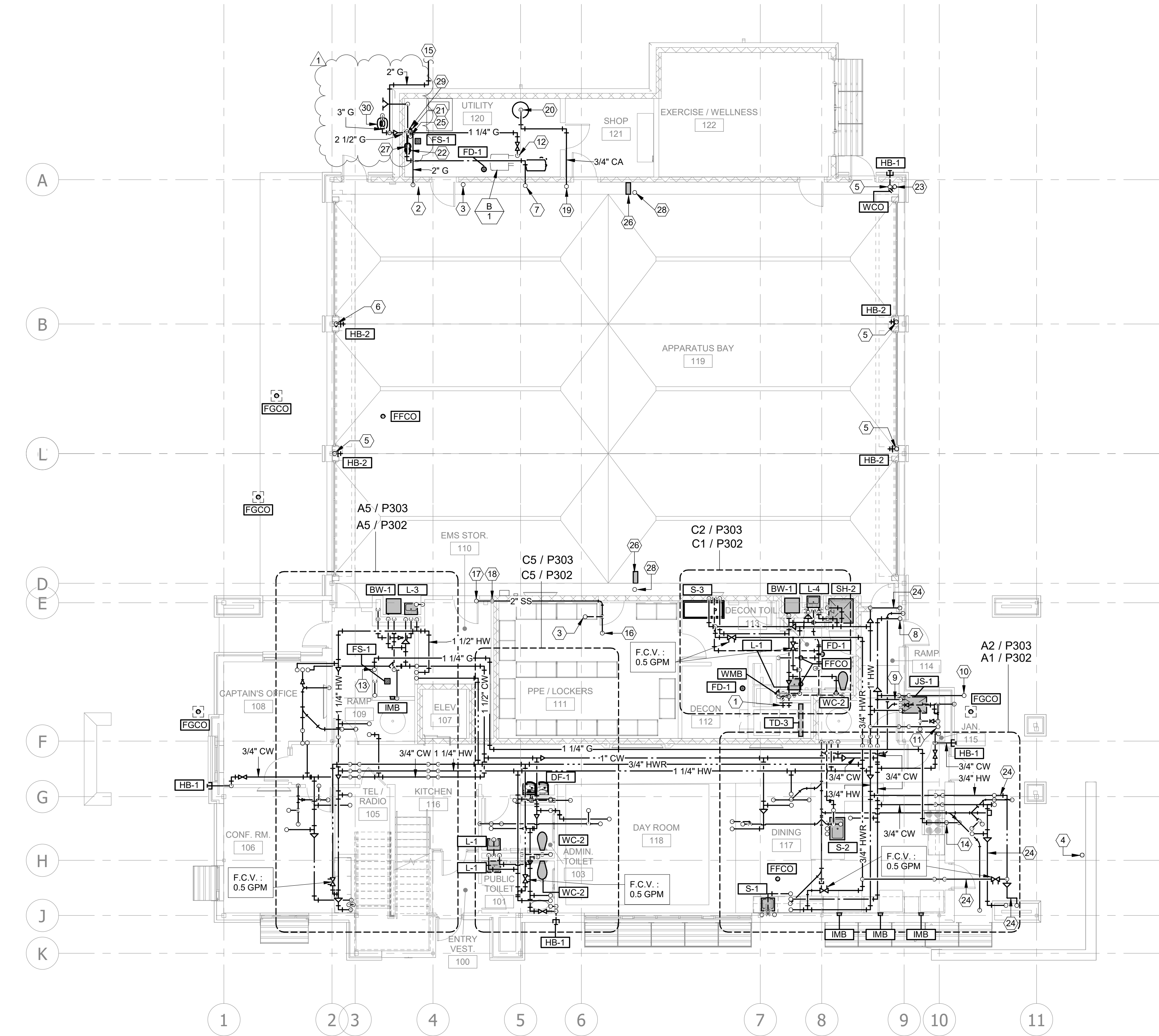
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B

A



A1 FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"

PLUMBING PLAN NOTES:

- 1 PROVIDE TWO HB-2, ONE COLD, ONE HOT, FOR THE WATER CONNECTIONS TO THE COMMERCIAL WASHING MACHINE.
- 2 2" NATURAL GAS UP.
- 3 2" VENT UP.
- 4 3/4" NATURAL GAS AND SHUT-OFF VALVE UP TO GRILL.
- 5 3/4" COLD WATER FROM ABOVE, PROVIDE SHUTOFF VALVE.
- 6 1" COLD WATER FROM ABOVE, PROVIDE SHUTOFF VALVE. 1" LINE CONTINUES BELOW GRADE WITH 1" DOUBLE CHECK BACK FLOW PREVENTER CONNECTED IN LINE.
- 7 1-1/2" COLD WATER PIPE UP.
- 8 1/2" COLD, 1/2" HOT, AND 2" WASTE UP TO LAVATORY.
- 9 3/4" COLD, 3/4" HOT WATER, AND 1-1/2" VENT DOWN TO JANITOR'S SINK.
- 10 1/2" COLD WATER AND 4" WASTE UP TO WATER CLOSET.
- 11 1/2" COLD, 1/2" HOT WATER, AND 2" TRAPPED WASTE UP TO SHOWER.
- 12 1-1/4" GAS DOWN TO BOILER.
- 13 1-1/4" GAS FROM ABOVE.
- 14 1-1/4" GAS DOWN 3/4" GAS TO TEE OFF AND SERVE RANGE OVEN WITH SHUT-OFF VALVE. PROVIDE SOLENOID VALVE IN LINE TO RANGE FOR CONNECTION TO HOOD FIRE SUPPRESSION SYSTEM. 3/4" GAS PIPE TO TEE OFF AND BE ROUTED OUTSIDE OF BUILDING AND DOWN BELOW GRADE TO OUTDOOR GRILL.
- 15 2" GAS TO GENERATOR.
- 16 2" TRAPPED WASTE UP TO FLOOR DRAIN.
- 17 2" WASTE UP TO SINK.
- 18 2" WASTE DOWN.
- 19 3/4" COMPRESSED AIR UP.
- 20 3/4" COMPRESSED AIR PIPING DOWN TO COMPRESSOR.
- 21 2" DOUBLE-CHECK BACKFLOW PREVENTER SERVING DOMESTIC WATER TO BE MOUNTED IN VERTICAL POSITION.
- 22 4" DOUBLE-CHECK BACKFLOW PREVENTER SERVING FIRE PROTECTION TO BE MOUNTED IN VERTICAL POSITION.
- 23 6" STORM DRAIN DOWN BELOW GRADE.
- 24 ROUTE DOMESTIC WATER THROUGH WARM SIDE OF INSULATION IN CEILING.
- 25 1-1/4" DOMESTIC COLD WATER DOWN BELOW GRADE WITH SHUT OFF VALVE.
- 26 AIR HOSE REEL, REFER TO SPECS.
- 27 4" FIRE PROTECTION WATER SERVICE MAIN FROM BELOW. REFER TO BELOW GRADE PLUMBING PLAN, SHEET P-100, FOR CONTINUATION.
- 28 1/2" COMPRESSED AIR LINE DOWN TO HOSE REEL.
- 29 2" DOMESTIC COLD WATER SERVICE MAIN FROM BELOW. REFER TO BELOW GRADE PLUMBING PLAN, SHEET P-100, FOR CONTINUATION.
- 30 NEW GAS SERVICE AND METER.

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FIRST FLOOR
PLUMBING PLAN

P101

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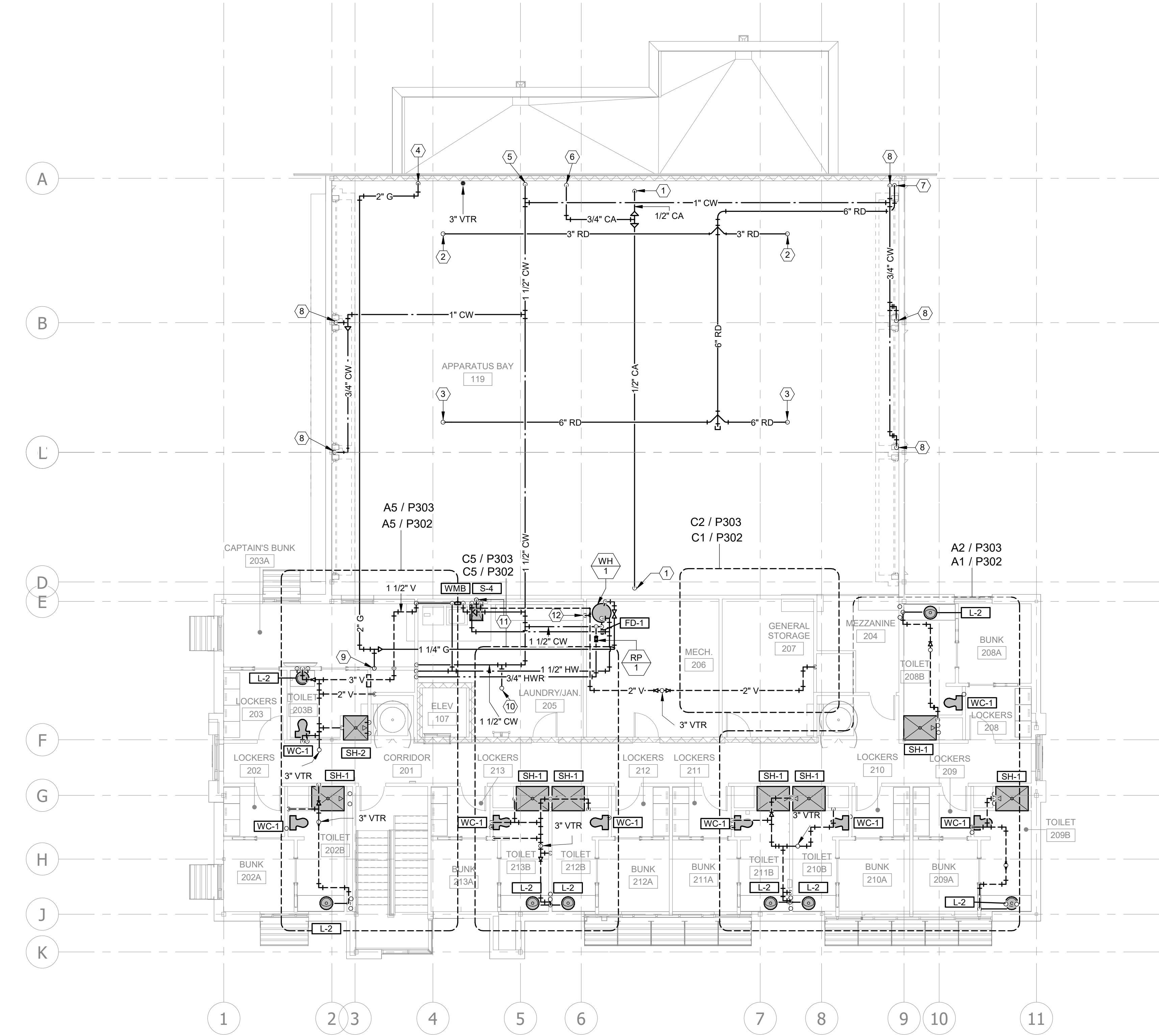
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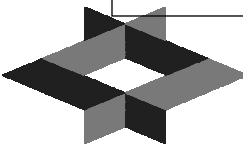
A



A1 SECOND FLOOR PLUMBING PLAN
1/8" = 1'-0"
0 4' 8' 16'

PLUMBING PLAN NOTES:

- 1 1/2" COMPRESSED AIR DOWN TO HOSE REEL.
- 3" PIPE UP TO ROOF DRAIN.
- 6" PIPE UP TO ROOF DRAIN.
- 2" NATURAL GAS FROM BELOW.
- 1-1/2" COLD WATER FROM BELOW.
- 3/4" COMPRESSED AIR DOWN.
- 6" STORM DRAIN DOWN BELOW GRADE.
- 3/4" COLD WATER DOWN.
- 2" GAS UP TO ROOF.
- 3/4 COLD WATER UP TO ROOF HYDRANT.
- 1/2" COLD, 1/2" HOT WATER, 1-1/2" VENT, AND 2" WASTE TO LAUNDRY SINK.
- 2" VENT FROM BELOW.



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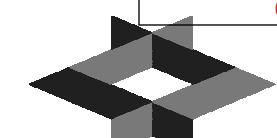
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**SECOND FLOOR
PLUMBING PLAN**

P102

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PLUMBING DETAILS

P301

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SPECIFICATIONS

- 4" Plain End inlet/outlet, 3" Plain End vents.
- Max flow rate: 100 GPM
- Capacities: Liquid: 250 gal. (33.4 cu. ft.); Oil: 144 gal.; Sand: 95 gal.
- Unit weight with composite cover: 230 lbs.; with cast iron: 346 lbs.
- Maximum operating temperature 140 °F continuous.
- Highway rated covers: 16,000 lb. capacity.

NOTES

- Snap-in Flow control (ships with unit).
- Seamless medium density polyethylene tank.
- Unit supplied with built-in adapter for up to 5" of adjustability. Additional riser(s) available for deeper burial depth.
- Cover placement allows full access to tank for proper maintenance.
- Narrow footprint allows clearance through doorways and down stairs.
- Engineered inlet and outlet diffusers are removable to inspect/clean piping.
- For on the-floor or buried applications.

DIFFUSION FLOW TECHNOLOGY

The inlet diffuser splits influent into three paths, creating laminar flow and utilizing the entire liquid volume of the tank for efficient oil separation. The calibrated openings greatly reduce influent turbulence. The influent enters the main chamber without disturbing the existing oil or sand layers. The bottom of the outlet diffuser allows only effluent that is free of oil to exit the tank.

ENGINEER SPECIFICATION GUIDE

Striem Oil Reserve™ oil/sand separator model OS-100 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Separator shall be furnished for above or below grade installation, with field adjustable riser system, snap-in flow control and (2) vent connections. Separator flow rate shall be 100 GPM. Separator oil capacity shall be 144 gallons. Sand capacity shall be 95 gallons. Covers shall provide water/gas-tight seal and have a maximum 16,000 lbs load capacity.

THIRD PARTY STRUCTURAL ANALYSIS

The OS-100 has been structurally analyzed in accordance with the requirements of IBC 2012 and ASCE/SEI 7 for direct burial. The maximum burial depth and backfill material are specified in our installation instructions. The structural design has been reviewed and sealed by a professional engineer registered in the state of California. A sealed structural analysis report is available upon request.

OPTIONS

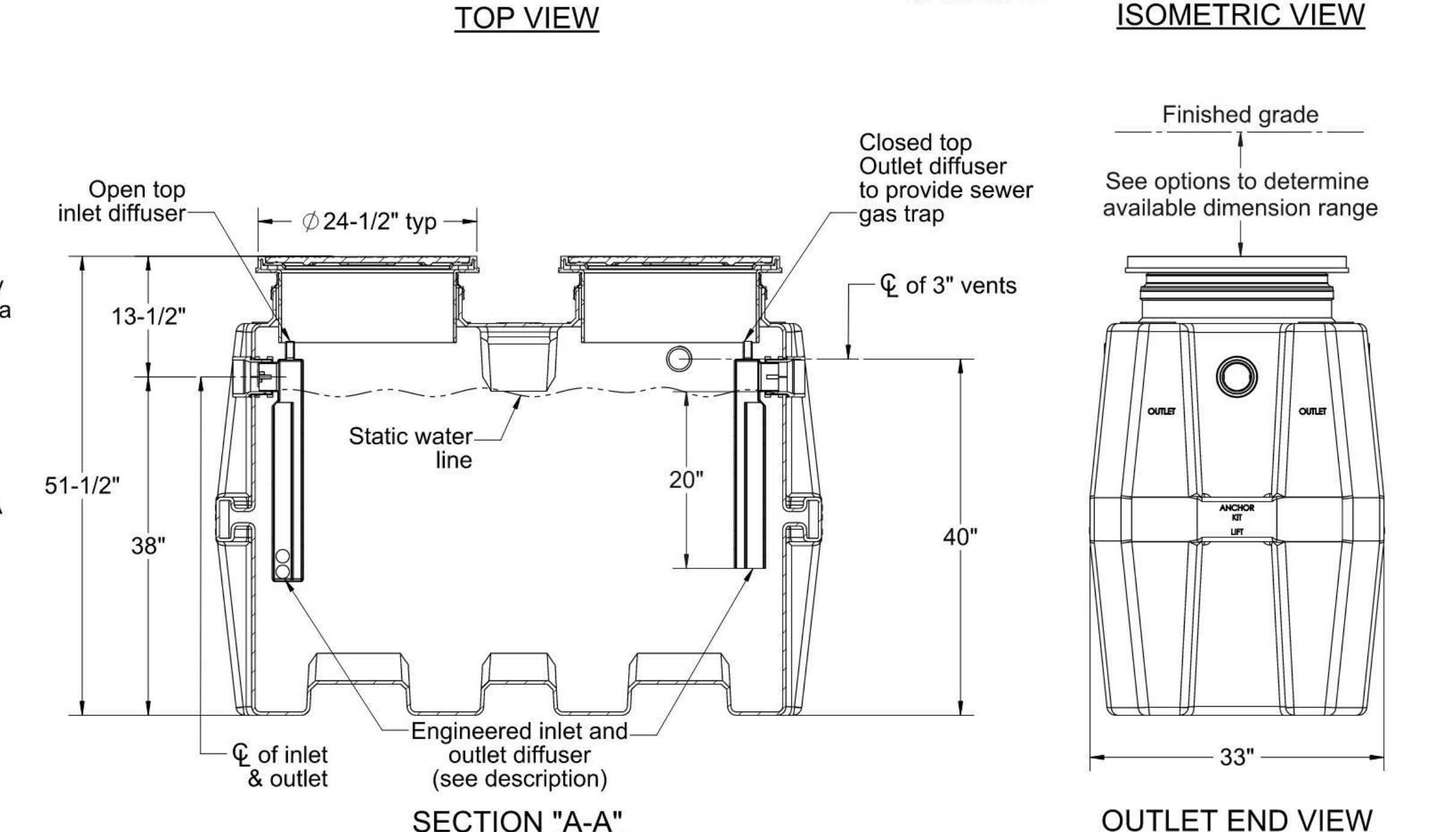
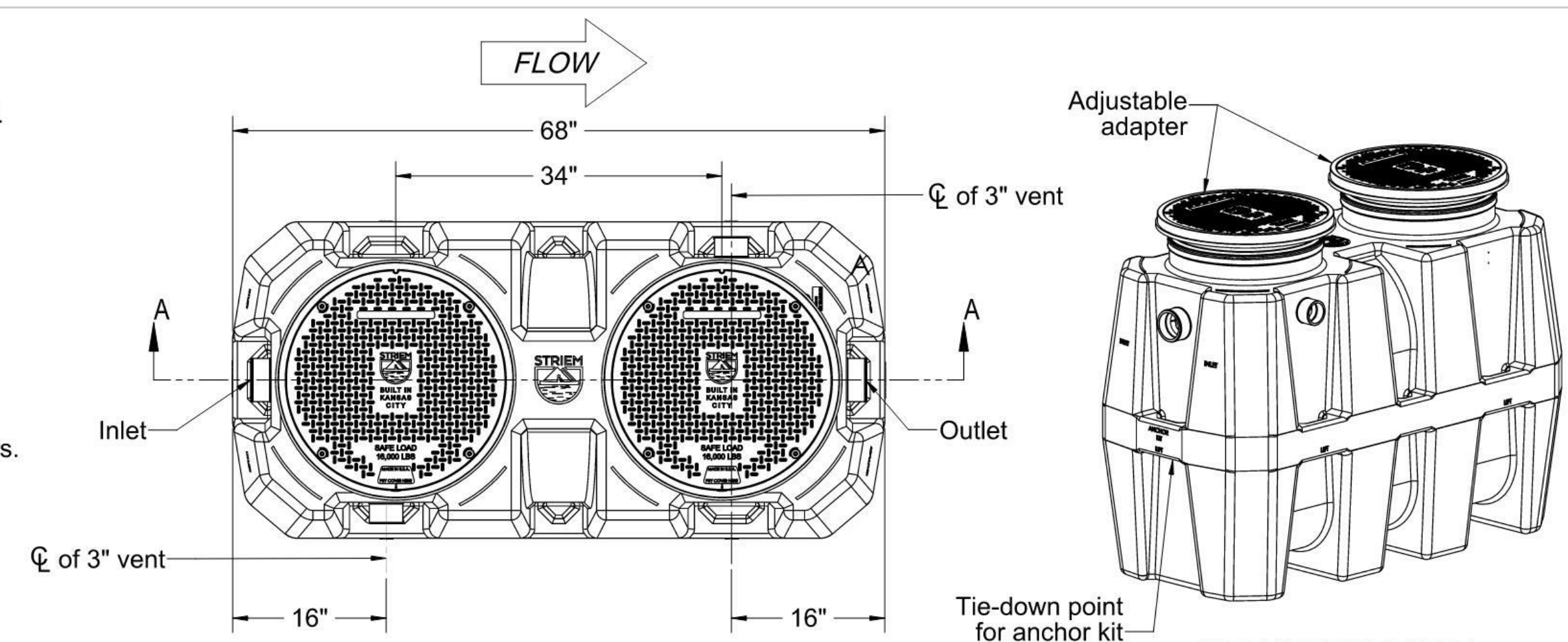
- ☐ 4M - 4" Male Thread Inlet / Outlet
- ☐ 6P - 6" Plain End SCH.40 Inlet / Outlet
- ☐ 6M - 6" Male Thread Inlet / Outlet
- ☐ C24-HP (2) - H20 Rated Pickable Cast Iron Cover
- ☐ CC24 (2) - Integral Membrane Clamping Collar Kit
- ☐ CS3 - Clean Sweep Coalescing Media (single)*
- ☐ CS6 - Clean Sweep Coalescing Media (double)*
- ☐ HDK-2 - High Water Anchor Kit

*Clean Sweep Coalescing Media not compatible with CPRK

RISER OPTIONS

- ☐ SR24 (2) - >5"-24"
 - ☐ LR24 (2) - >24"-39"
 - ☐ SR24 (4) - >39"-43"
 - ☐ SR24 (2) + LR24 (2) - >43"-58"
 - ☐ LR24 (4) - >58"-72"
 - ☐ SR24 (2) + LR24 (4) - >72"-90"
- ☐ CPRK (2) : >11" - 90"
 - Corrugated Pipe Riser Kit.
 - 18" diameter corrugated pipe by others.
 - Used in substitute of SR/LR riser options.
 - See CPRK specification for more detail.

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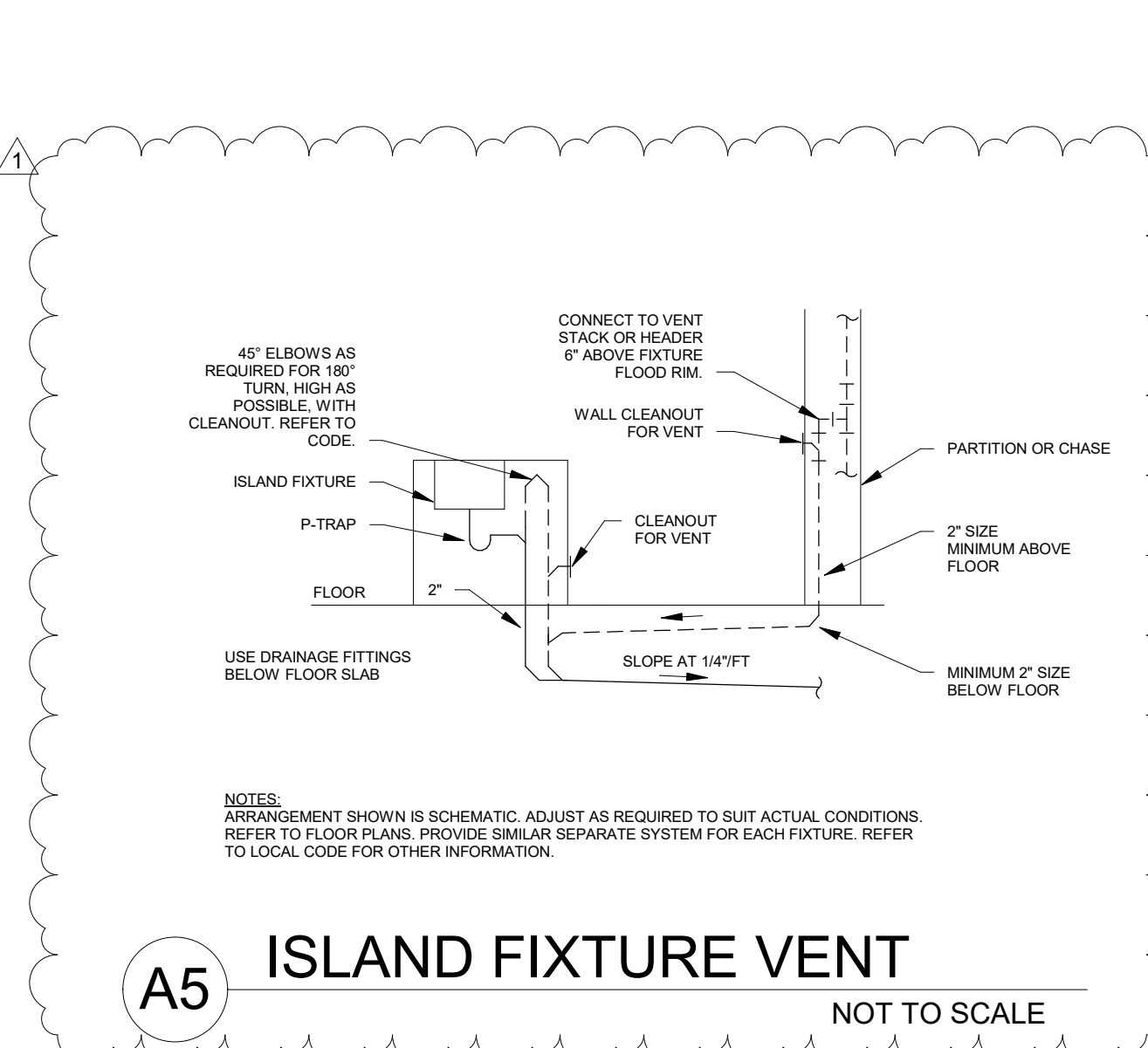
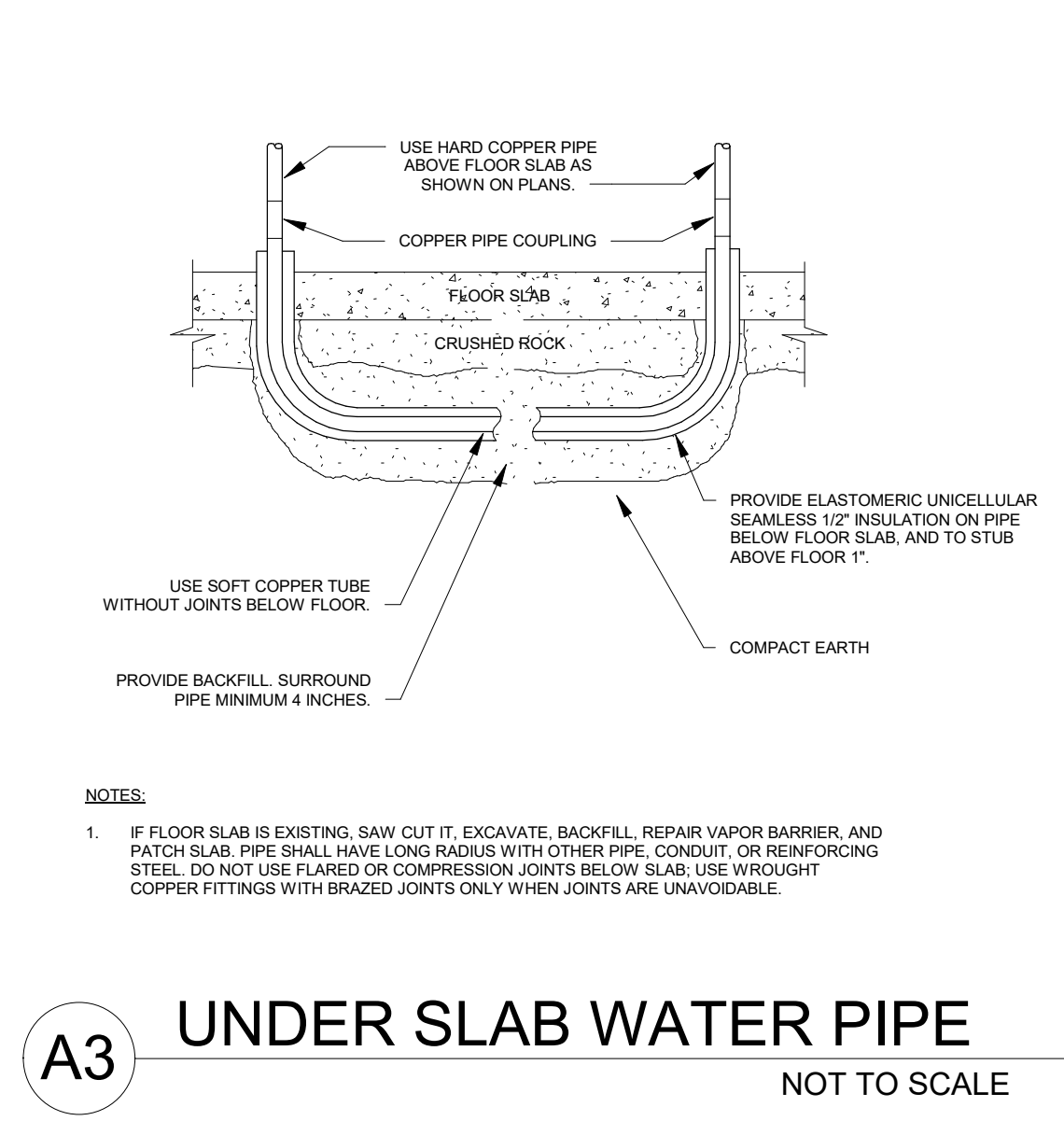
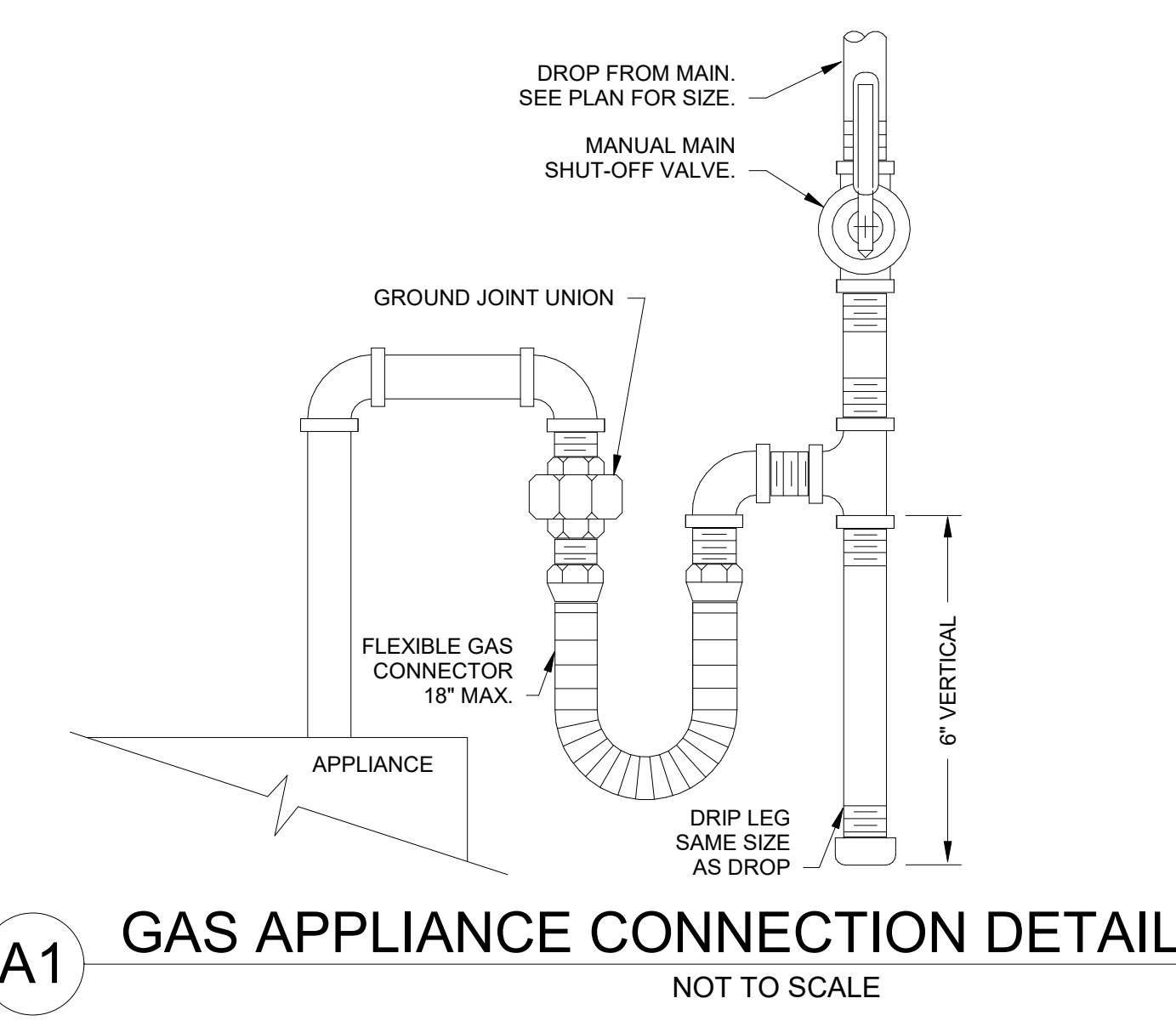


MODEL NUMBER: OS-100	
DESCRIPTION: 100 GPM POLYETHYLENE OIL/SAND SEPARATOR	
DWG BY: MJ	DATE: 12/09/2020 REV: 0 ECO:

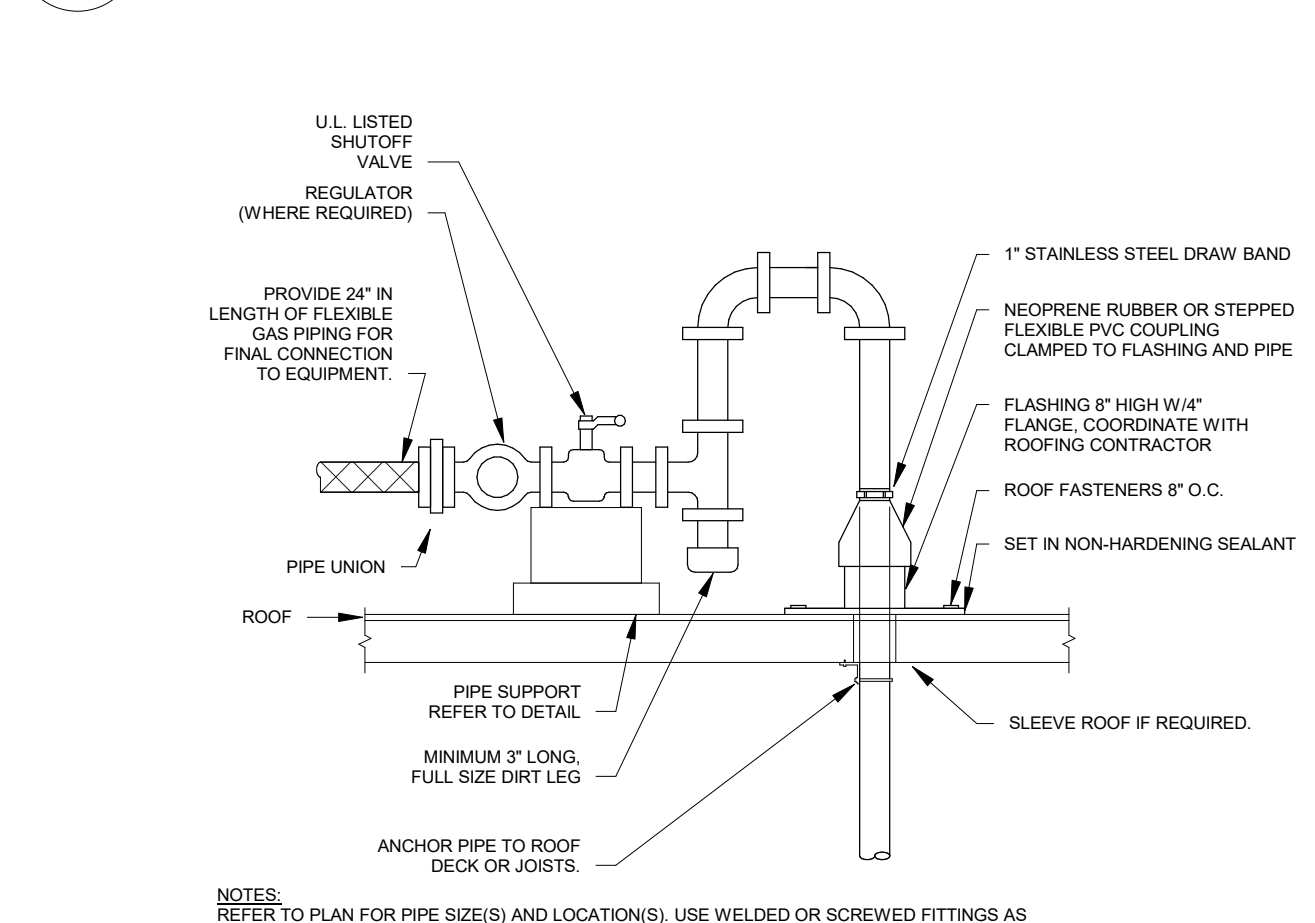
SPECIFICATION SHEET

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3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
orders@striemco.com
www.striemco.com

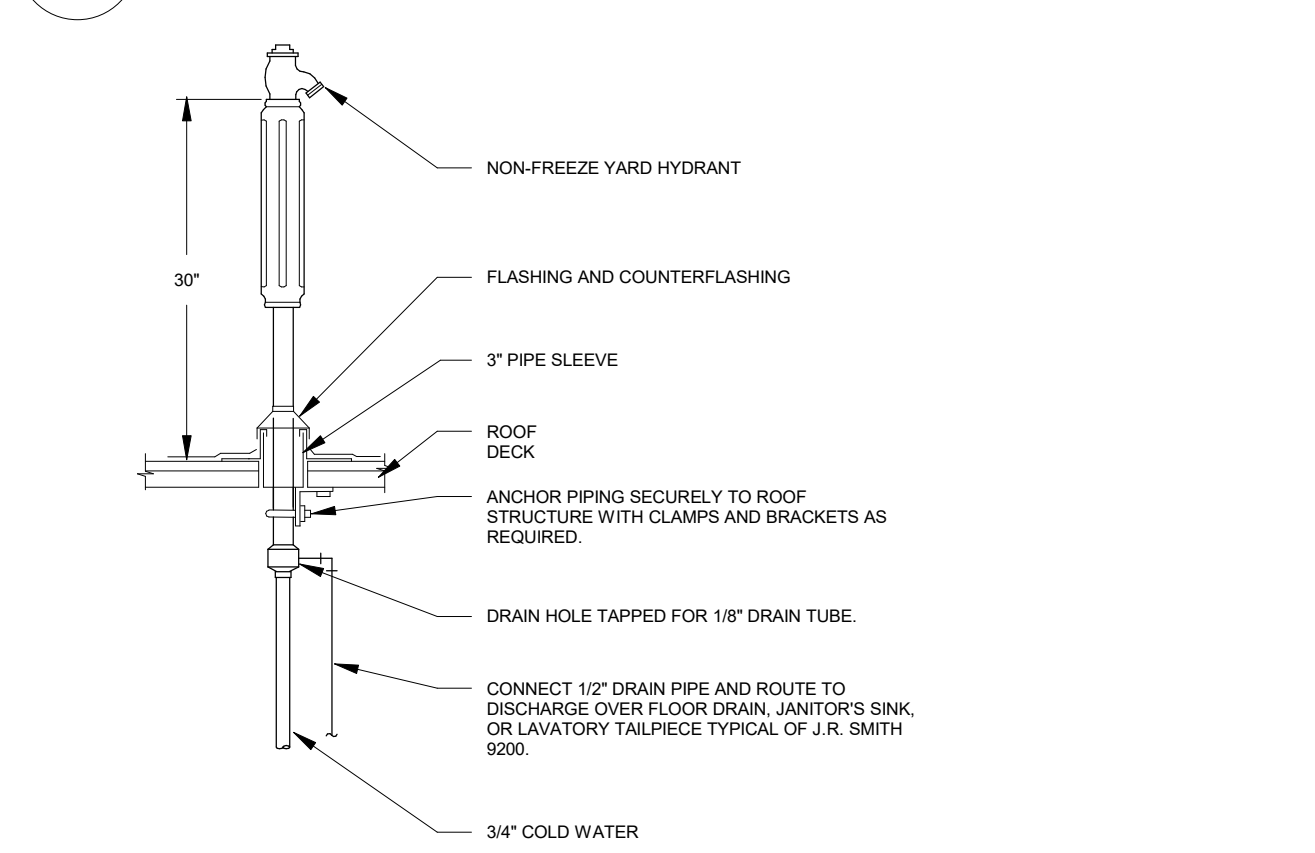
Made in the U.S.A



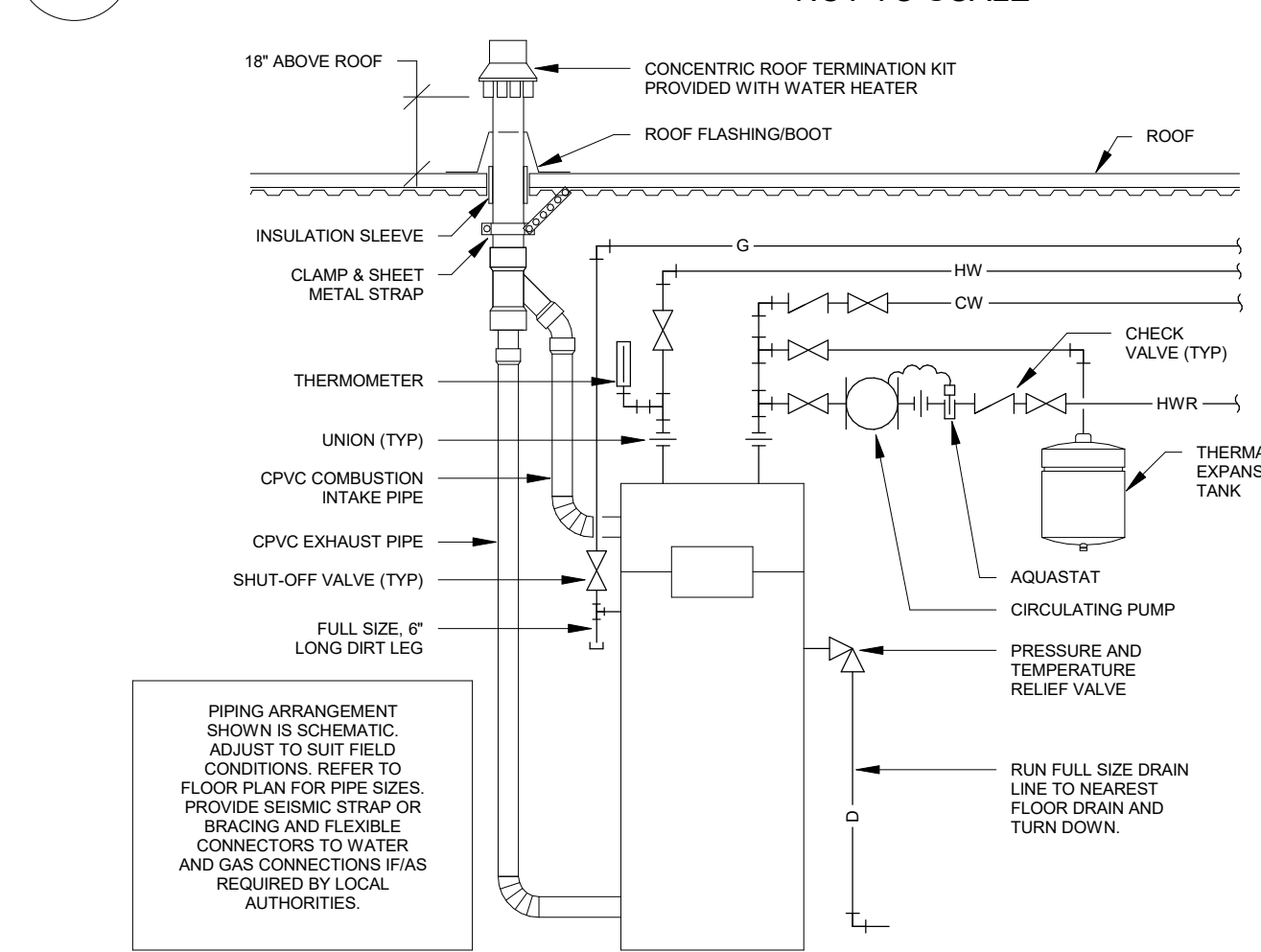
D7 TRENCH DRAIN DETAIL. NOT TO SCALE



C7 GAS PIPE THRU ROOF. NOT TO SCALE

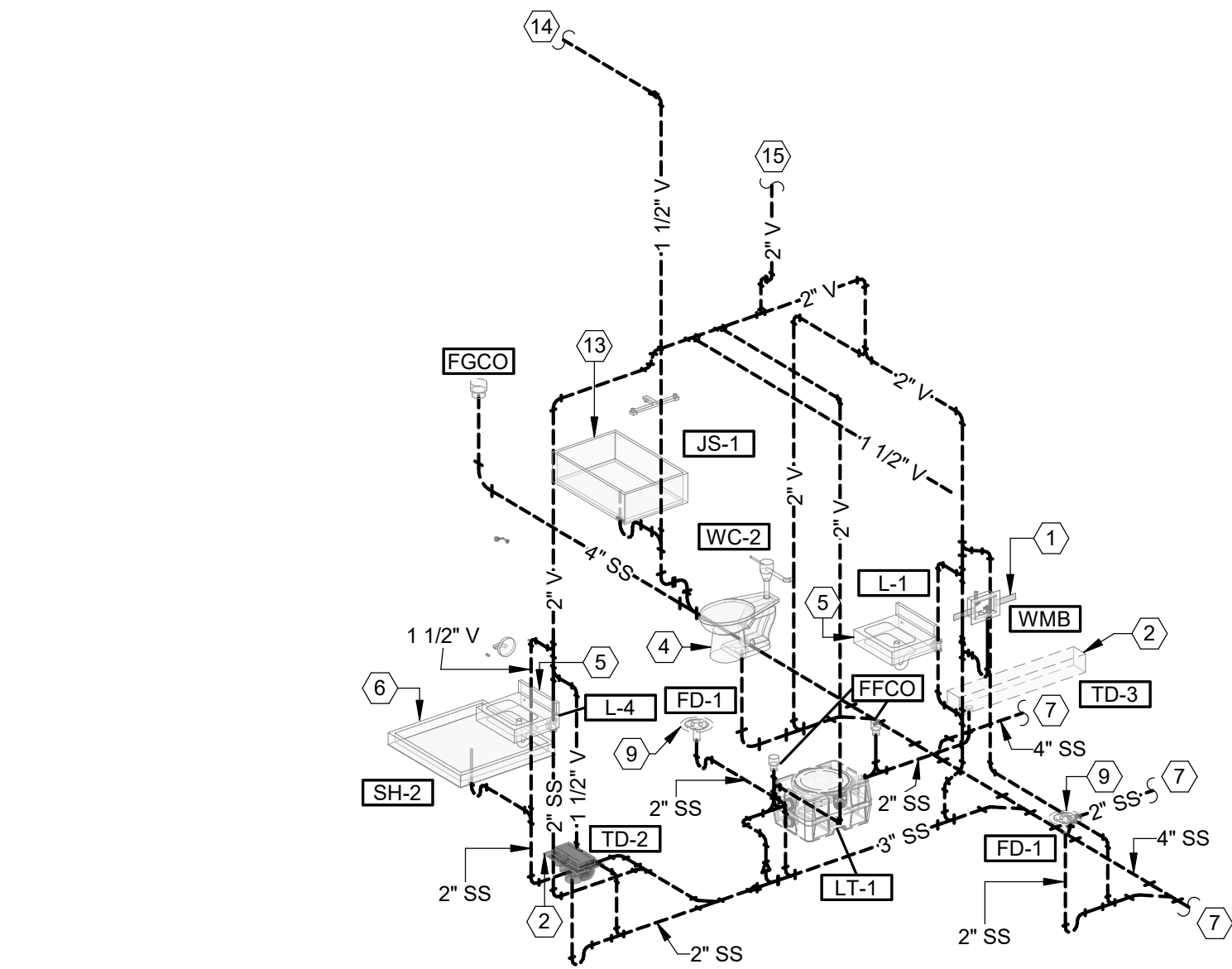


B7 ROOF HYDRANT. NOT TO SCALE

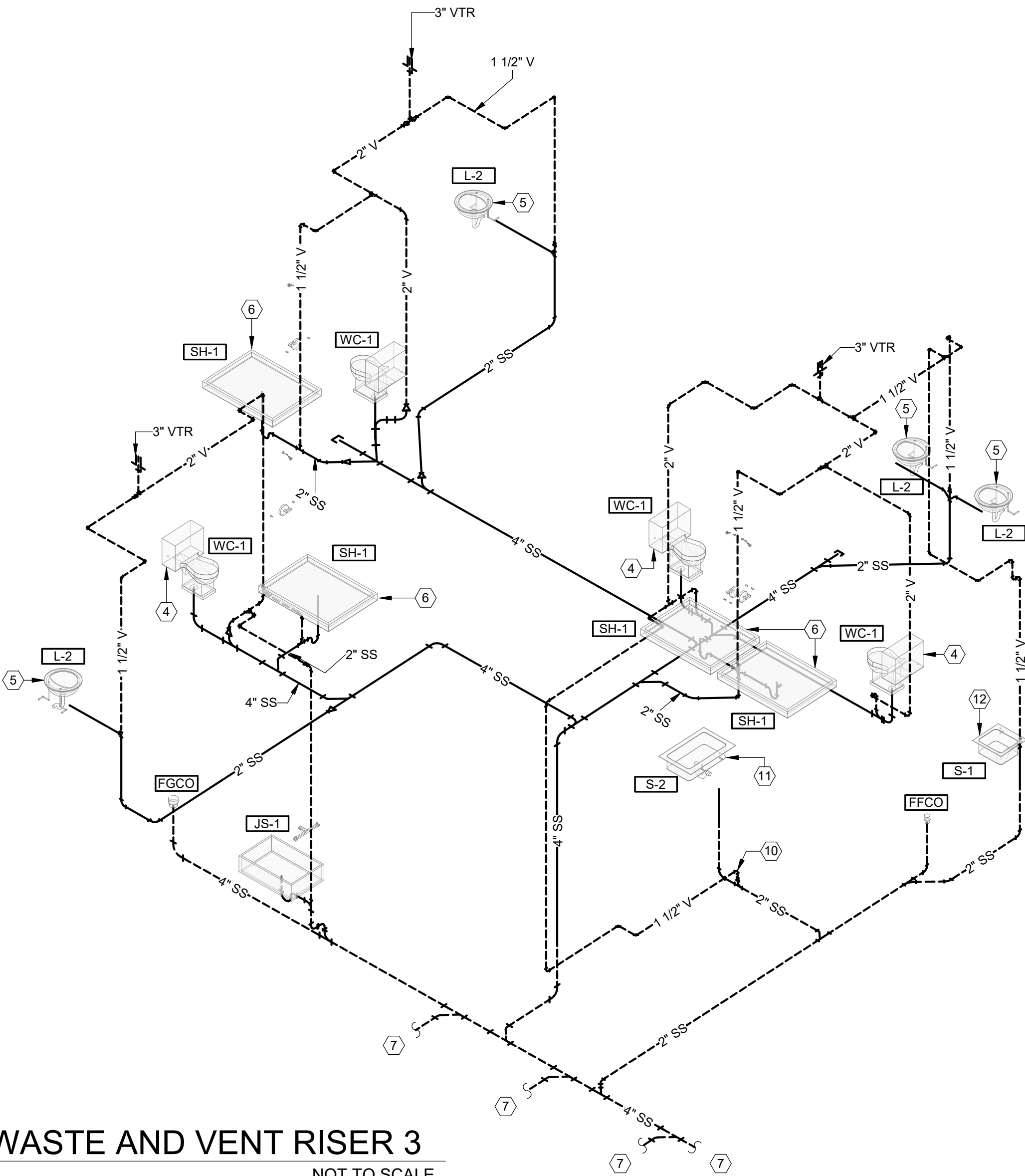


A7 GAS WATER HEATER AND HIGH EFF VENT ROOF. NOT TO SCALE

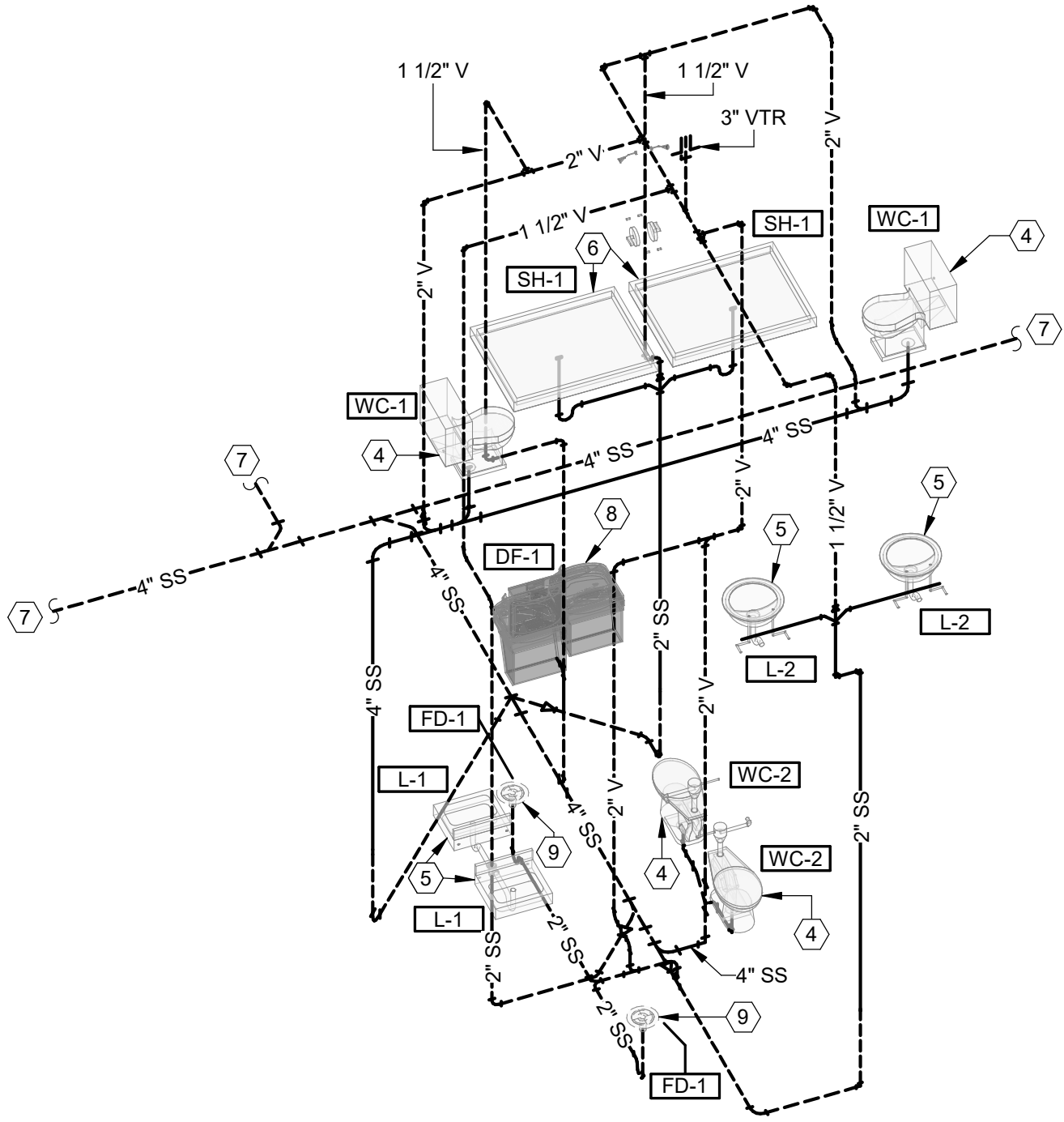
- PLUMBING PLAN NOTES:**
- 1-1/2" VENT DOWN AND 2" WASTE UP TO WASHING MACHINE BOX.
 - 2" TRAPPED WASTE UP TO TRENCH DRAIN.
 - 2" TRAPPED WASTE UP TO FLOOR SINK.
 - 2" VENT DOWN AND 4" WASTE UP TO WATER CLOSET.
 - 1-1/2" VENT DOWN AND 2" WASTE UP TO LAVATORY.
 - 1-1/2" VENT DOWN AND 2" WASTE UP TO SHOWER.
 - SEE UNDERGROUND PLUMBING PLAN, P100, FOR CONTINUATION.
 - 1-1/2" VENT DOWN AND 2" WASTE UP TO DRINKING FOUNTAIN.
 - 2" TRAPPED WASTE UP TO FLOOR DRAIN.
 - PROVIDE ISLAND VENTING FOR THIS FIXTURE. REFER TO DETAIL.
 - 2" WASTE UP TO SINK.
 - 1-1/2" VENT DOWN AND 2" WASTE UP TO SINK.
 - 1-1/2" VENT DOWN AND 3" TRAPPED WASTE UP TO JANITOR'S SINK.
 - SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
 - SEE SECOND FLOOR PLUMBING PLAN, P102, FOR CONTINUATION.



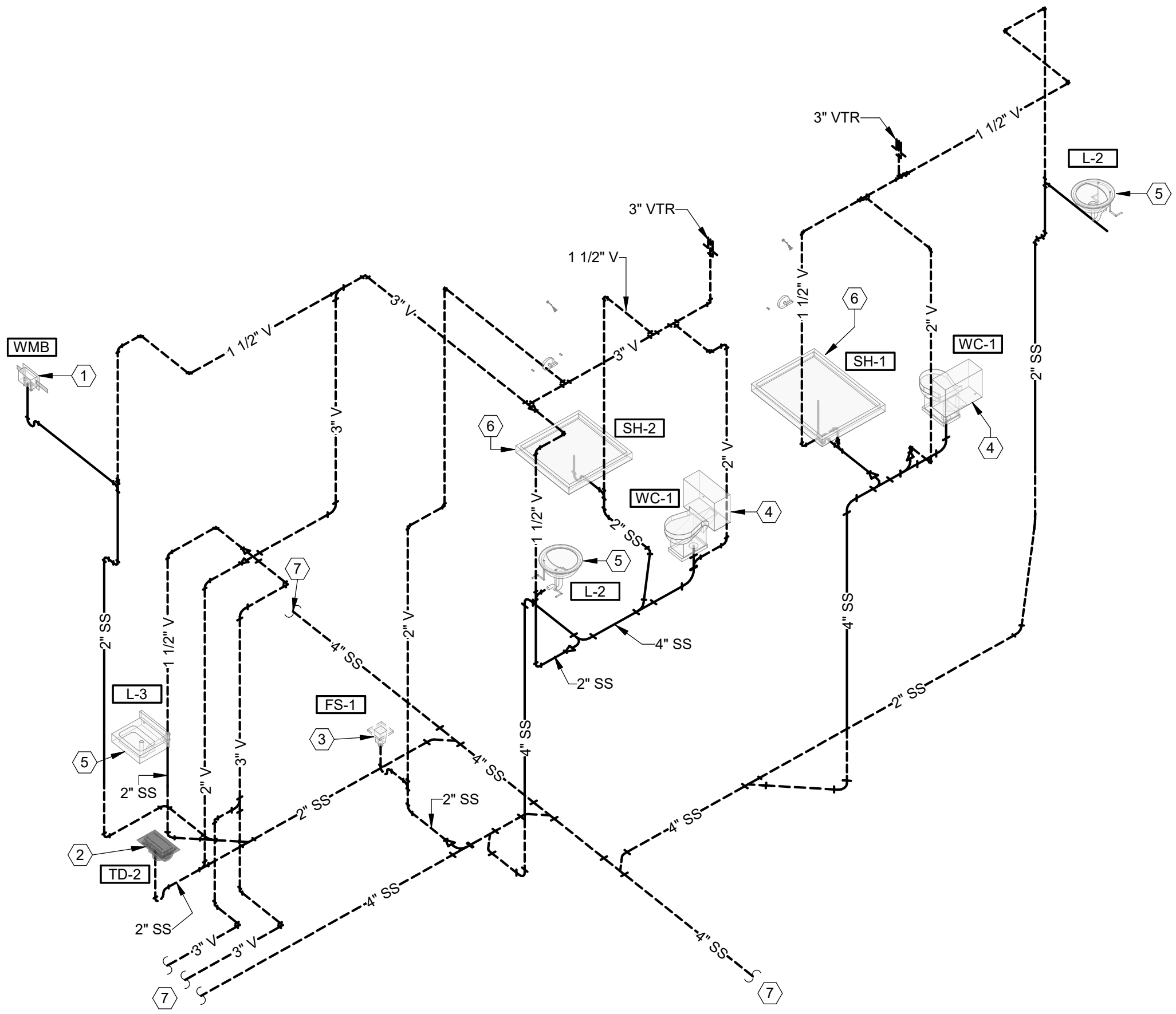
C1 WASTE AND VENT RISER 4
NOT TO SCALE



A1 WASTE AND VENT RISER 3
NOT TO SCALE



C5 WASTE AND VENT RISER 2
NOT TO SCALE



A5 WASTE AND VENT RISER 1
NOT TO SCALE

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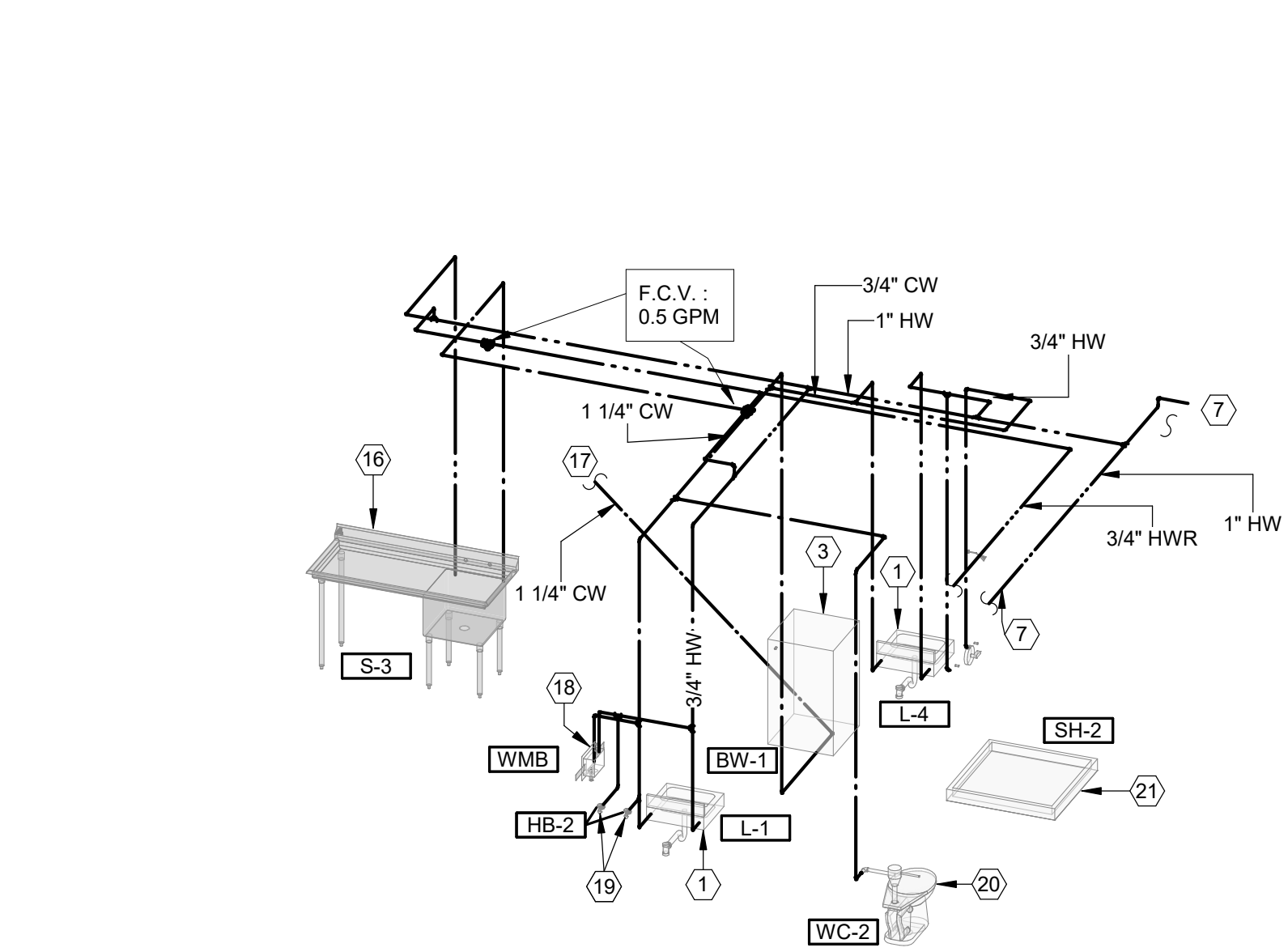
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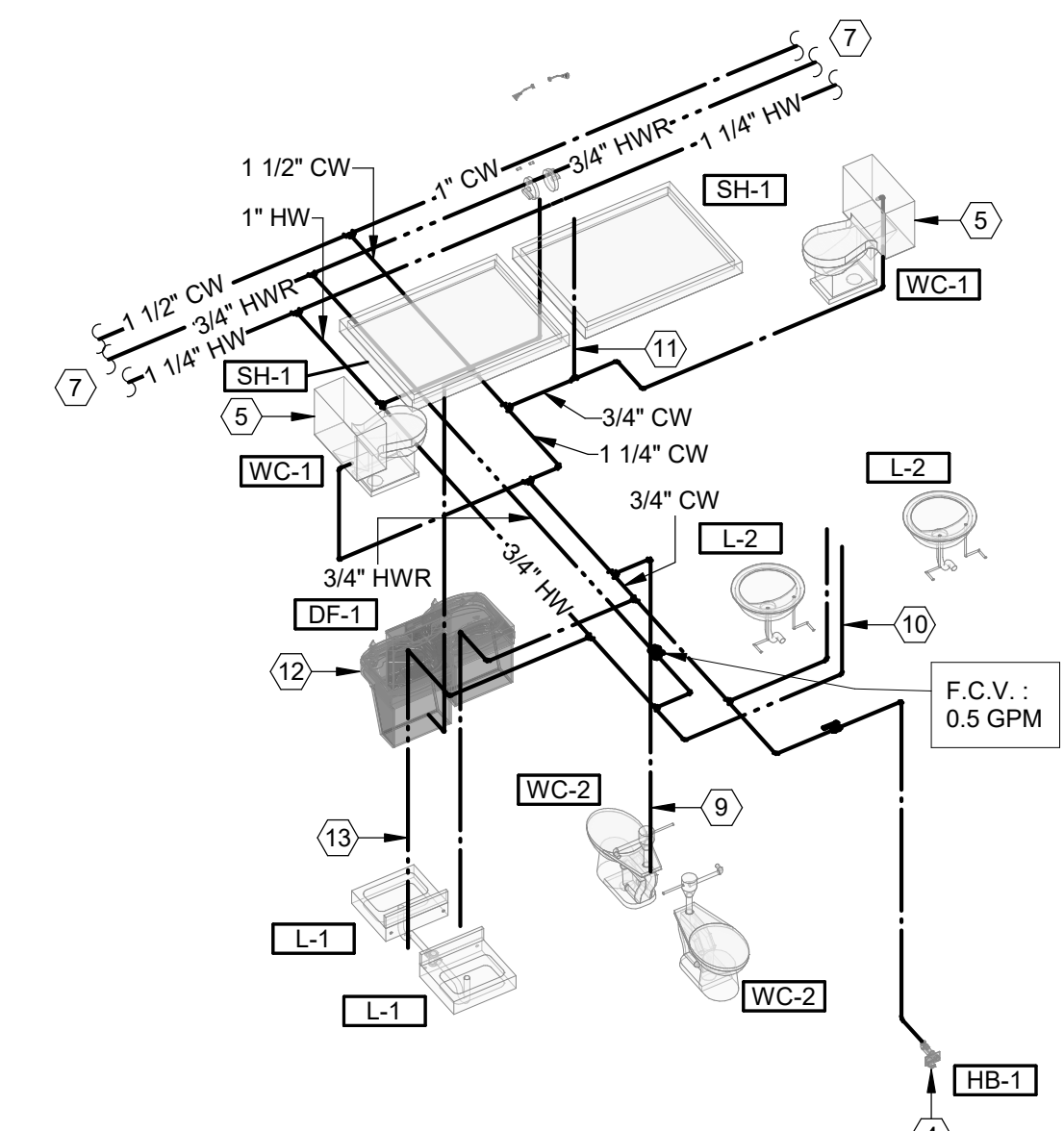
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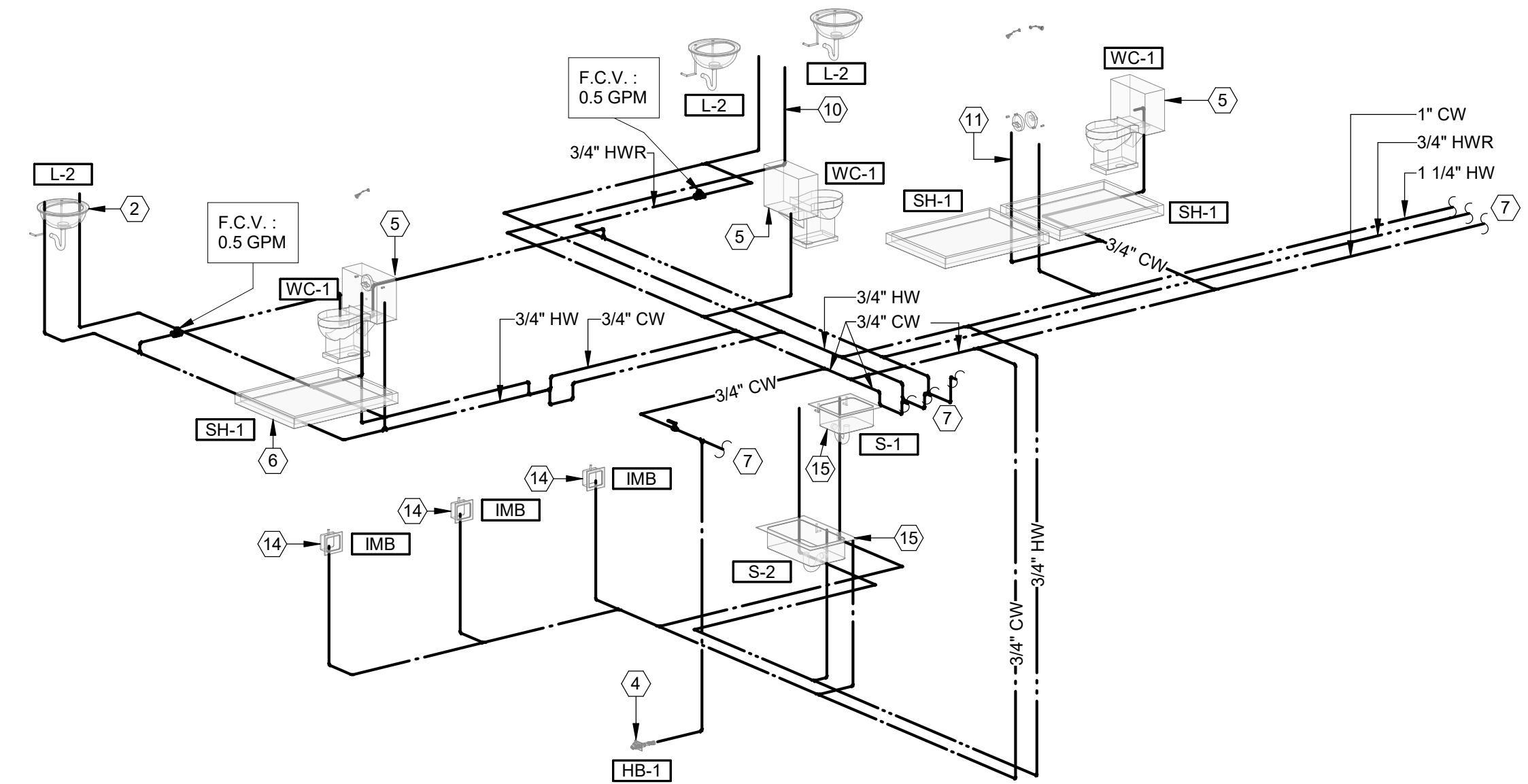
- PLUMBING PLAN NOTES:**
- 1/2" COLD AND 1/2" HOT WATER DOWN TO LAVATORY.
 - 1/2" COLD AND 1/2" HOT WATER UP TO LAVATORY.
 - 1/2" COLD WATER DOWN TO BOOT WASH STATION.
 - 3/4" COLD WATER DOWN TO HOSE BIBB.
 - 1/2" COLD WATER UP TO WATER CLOSET.
 - 1/2" COLD AND 1/2" HOT WATER UP TO SHOWER.
 - SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
 - 1/2" COLD WATER DOWN TO ICE MAKER BOX.
 - 1-1/4" COLD WATER DOWN TO WATER CLOSETS.
 - 3/4" COLD AND 3/4" HOT WATER UP TO LAVATORIES.
 - 3/4" COLD AND 3/4" HOT WATER UP TO SHOWERS.
 - 1/2" COLD WATER DOWN TO DRINKING FOUNTAIN.
 - 3/4" COLD AND 3/4" HOT WATER DOWN TO LAVATORIES.
 - 1/2" COLD WATER UP TO ICE MAKER BOX.
 - 1/2" COLD AND 1/2" WATER HOT UP TO SINK.
 - 1/2" COLD AND 1/2" HOT WATER DOWN TO SINK.
 - SEE UNDERGROUND PLUMBING PLAN, P100, FOR CONTINUATION.
 - 1/2" COLD AND 1/2" HOT WATER DOWN TO WASHING MACHINE BOX.
 - 3/4" COLD AND 3/4" HOT WATER DOWN TO SERVE HOSE BIBBS FOR COMMERCIAL WASHER.
 - 1-1/4" COLD WATER DOWN TO WATER CLOSET.
 - 1/2" COLD AND 1/2" HOT WATER DOWN TO SHOWER.
 - 1-1/2" COLD, 1-1/2" HOT, AND 3/4" RECIRC. WATER FROM ABOVE.



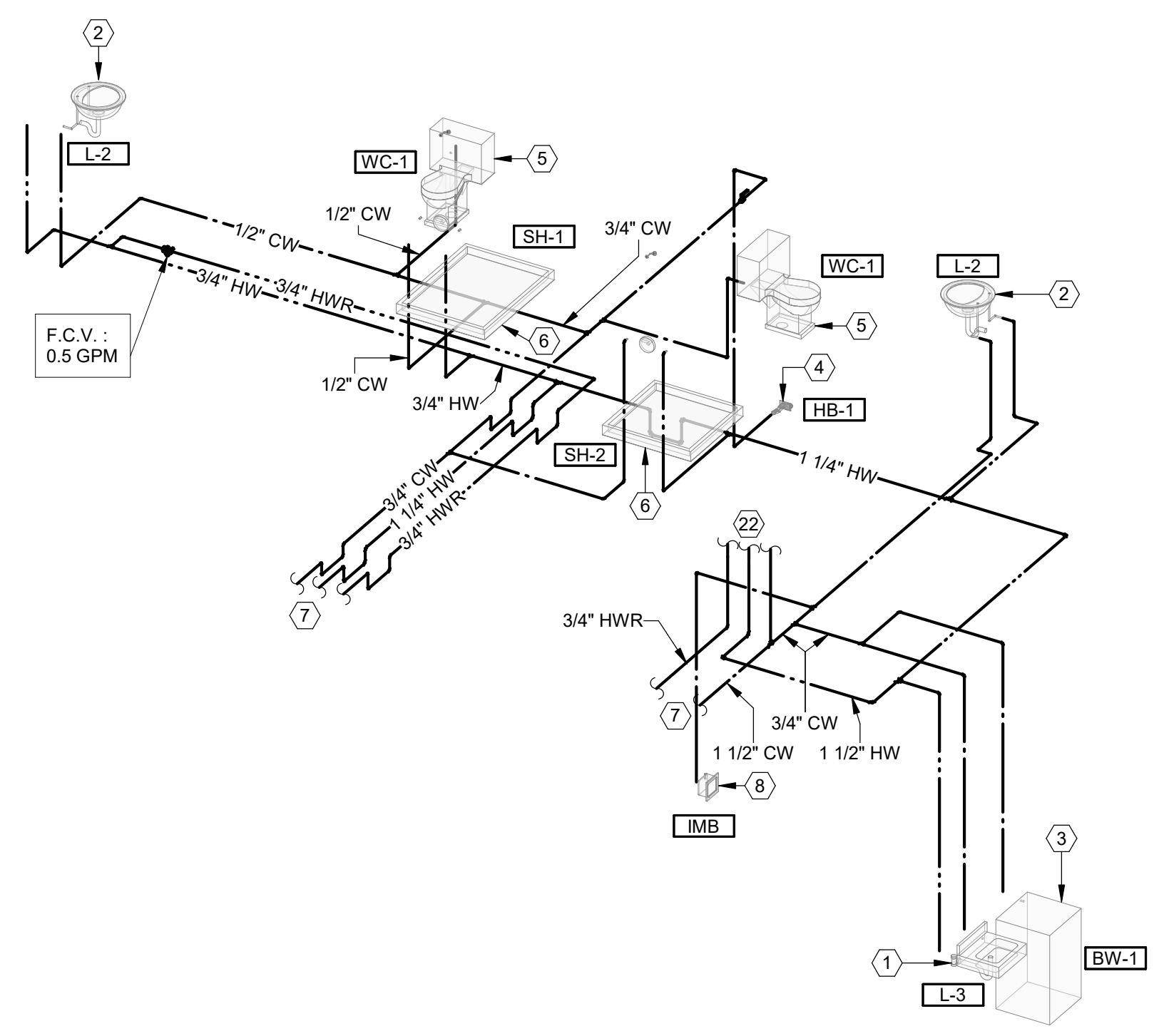
C2 DOMESTIC WATER RISER 4
NOT TO SCALE



C5 DOMESTIC WATER RISER 2
NOT TO SCALE



A2 DOMESTIC WATER RISER 3
NOT TO SCALE



A5 DOMESTIC WATER RISER 1
NOT TO SCALE

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DOMESTIC WATER RISERS

P303

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D

C

B

A

ELECTRICAL MASTER SYMBOLS LEGEND				
STANDARD MOUNTING HEIGHTS	LIGHTING	WIRING DEVICES & OUTLETS	NURSE CALL	ELECTRICAL ONE-LINE & RISER DIAGRAM
CONTROLS (TOP OF DEVICE) RECEPTACLES RECEPTACLES (EXTERIOR) RECEPTACLES (GARAGES) RECEPTACLES (ABOVE COUNTER) RECEPTACLES IN EQUIPMENT ROOMS DATA OUTLETS TELEVISION OUTLETS	48" 18" 24" 24" 4" ABOVE BACKSPLASH/COUNTER 44" SAME AS ADJACENT DEVICE UNO REFER TO ARCH DRAWINGS	CIRCUIT DESIGNATION AS FOLLOWS: LP-1 - 5 LP-1 = ASSOCIATED PANEL 5 = CIRCUIT SIMPLEX RECEPTACLE DUPLX RECEPTACLE GFCI DUPLX RECEPTACLE DOUBLE DUPLX RECEPTACLE DOUBLE DUPLX GFCI RECEPTACLE SPECIAL TYPE RECEPTACLE - NEMA TYPE AS NOTED CONTROLLED RECEPTACLE INDICATES RECEPTACLE PROTECTED BY GFCI BREAKER RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPLASH RECEPTACLE INSTALLED VIA DROP CORD RECEPTACLE, LETTER DESIGNATION AS FOLLOWS: EM = EMERGENCY RECEPTACLE H = HORIZONTALLY MOUNTED IG = ISOLATED GROUND USB = USB/DUPLX WP = WEATHER PROOF COVER WR = WEATHER RESISTANT TR = TAMPER RESISTANT TV = TELEVISION 60" = MOUNTING HEIGHT TO CENTER OF DEVICE	NCMS NURSE CALL MASTER STATION NCA NURSE CALL ANNUNCIATION PANEL SL S NURSE CALL SWITCH PANEL W SL NURSE CALL ROOM STATUS CORRIDOR LIGHT - WALL MOUNT C SL NURSE CALL ROOM STATUS CORRIDOR LIGHT - CEILING MOUNT W N NURSE CALL CORRIDOR LIGHT - WALL MOUNT C N NURSE CALL CORRIDOR LIGHT - CEILING MOUNT N 1 NURSE CALL PATIENT STATION - SINGLE CALL CORD N 2 NURSE CALL PATIENT STATION - DOUBLE CALL CORD N D NURSE CALL DUTY STATION N E NURSE CALL EMERGENCY STATION - PULL CORD N PB NURSE CALL EMERGENCY STATION - PUSH BUTTON N CB NURSE CALL CODE BLUE STATION	FEEDER SYMBOL - REFER TO FEEDER SCHEDULE UTILITY METER (AS REQUIRED BY UTILITY) SURGE PROTECTION DEVICE GROUND CONNECTION MOTOR CIRCUIT BREAKER (RATING AS INDICATED) FUSED DISCONNECT SWITCH (RATING AS INDICATED) TRANSFORMER (TYPE AND RATINGS AS INDICATED) AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED) GENERATOR (RATINGS AS INDICATED) NON-SEPARATELY DERIVED SOURCE SEPARATELY DERIVED SOURCE PANELBOARD, MULTIPLE SECTIONS WHERE SHOWN (REFER TO SCHEDULES)
DEFAULT MOUNTING HEIGHTS SHOWN ABOVE TO BE USED UNLESS NOTED OTHERWISE BY ARCHITECT OR IN CONSTRUCTION DOCUMENTS. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.	NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE A = LIGHT FIXTURE TYPE a = LIGHT FIXTURE CONTROL 15 = CIRCUIT	20/1 \$ ▼ ▼ ▼ ▼ DATA / TELEPHONE COMBINATION OUTLET DATA OUTLET INSTALLED ABOVE COUNTER OR BACKSPLASH WIRELESS ACCESS POINT MULTI-SERVICE FLOOR BOX WITH DATA AND POWER OUTLETS; A = TYPE MULTI-SERVICE POKE THROUGH WITH DATA AND POWER OUTLETS; A = TYPE JUNCTION BOX (JBOX) EMERGENCY POWER OFF BUTTON	SECURITY	
INSTALLATION HEIGHT OF ALL FIRE ALARM DEVICES SHALL BE AS REQUIRED BY THE LATEST EDITION OF NFPA 72. COORDINATE WITH EQUIPMENT MANUFACTURER BASED ON ACTUAL PROVIDED EQUIPMENT.	EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING / WALL MOUNTED CEILING FAN		COMMUNICATION	
ANNOTATIONS	INDICATES CONNECTION TO EXISTING SYSTEM INDICATES DEMO FROM EXISTING SYSTEM PLAN NOTE REFERENCE DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER SECTION REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER MECHANICAL EQUIPMENT DESIGNATION	LIGHTING TRACK WITH LIGHT FIXTURE TYPES AS INDICATED EXTERIOR SITE PARKING LOT LIGHT FIXTURE WITH NUMBER OF HEADS INDICATED		
ABBREVIATIONS	LIGHTING CONTROL DEVICES \$ SINGLE POLE SWITCH \$ ³ SWITCH, LETTER DESIGNATION AS FOLLOWS: 2 = TWO POLE 3 = THREE-WAY 4 = FOUR-WAY D = DIMMER K = KEYED LV = LOW VOLTAGE M = MOMENTARY CONTACT OS = OCCUPANCY SENSOR VA = VACANCY SENSOR WP = WEATHERPROOF MR = MOTOR RATED CEILING MOUNT OCCUPANCY/VACANCY SENSOR WALL MOUNT OCCUPANCY/VACANCY SENSOR EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL DEVICE ROOM CONTROLLER - REFER TO SCHEDULE FOR MORE INFORMATION POWER PACK - REFER TO SCHEDULE FOR MORE INFORMATION REFER TO LIGHTING DEVICE SCHEDULE FOR MORE DEVICE INFORMATION.	FIRE ALARM DEVICES FIRE ALARM RELAY WATER FLOW SWITCH VALVE TAMPER SWITCH FAN SHUTDOWN RELAY FIRE ALARM STROBE - WALL MOUNTED FIRE ALARM STROBE - CEILING MOUNTED MANUAL FIRE ALARM PULL STATION FIRE ALARM BELL FIRE HORN AND STROBE - WALL MOUNTED FIRE HORN FIRE SPEAKER - WALL MOUNTED FIRE SPEAKER - CEILING MOUNTED FIRE SPEAKER AND STROBE - WALL MOUNTED FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR PANEL CARBON DIOXIDE DETECTOR CEILING SMOKE DETECTOR DUCT SMOKE DETECTOR THERMAL DETECTOR (HEAT) ELECTRIC DOOR HOLDER FIREMAN'S TELEPHONE OUTLET KNOX BOX		
LINETYPE LEGEND	POWER EQUIPMENT ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNTED) ELECTRICAL DISTRIBUTION PANELBOARD TRANSFORMER - THIN OUTLINE INDICATES EQUIPMENT PAD EXTENDING 6" FROM EQUIPMENT WHERE FLOOR MOUNTED DISCONNECT SWITCH - "60/3/60/3R" DENOTES AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB = CIRCUIT BREAKER, NO VALUE FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING COMBINATION DISCONNECT SWITCH - "60/3/60/0/3R" DENOTES AMPERES/POLE/FUSE/STARTER SIZE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB = CIRCUIT BREAKER, NO VALUE FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING HOME RUN CONDUIT CONDUIT TURNING UP CONDUIT TURNING DOWN			

THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.

ELECTRICAL GENERAL NOTES:

- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DE-RATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.
- D. PROVIDE FIRESTOPPING ON CONDUITS PASSING THROUGH FIRE RATED WALLS AND FLOORS. COORDINATE LOCATION AND RATINGS OF WALLS WITH ARCHITECTURAL DRAWINGS.
- E. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.
- F. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.
- G. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.
- H. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.
- I. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.
- J. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.
- K. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL PANELS.
- L. PROVIDE BLANK COVER PLATES FOR ALL EXISTING OPEN J-BOXES LOCATED IN EXISTING WALL.
- M. MAINTAIN ALL EXISTING CIRCUIT CONTINUITIES.
- N. PROVIDE ROUGH-IN BOXES AND CONDUIT FOR THERMOSTATS AS INDICATED.
- O. PROVIDE DUCT SMOKE DETECTORS IN RETURN AIR PATHS FOR AIR HANDLING EQUIPMENT 2,000 CFM AND LARGER AND WHERE SHOWN ON PLANS. INTERLOCK WITH AIR HANDLING EQUIPMENT TO SHUT DOWN UNIT UPON SMOKE DETECTION.
- P. THE FIRE ALARM SCOPE OF WORK IS A DELEGATED DESIGN AND DEFERRED SUBMITTAL REQUIRING FIRE ALARM SUBCONTRACTOR STAMPED ENGINEERING AND SUBMISSION TO THE AHJ FOR REVIEW/APPROVAL. IT IS THE RESPONSIBILITY OF THE ELECTRICAL AND FIRE ALARM SUBCONTRACTORS TO PROVIDE A FULLY COORDINATED, COMPLETE, AND CODE COMPLIANT SYSTEM DESIGN AND INSTALLATION.
- Q. GROUND FAULT INTERRUPTER RECEPTACLES SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.8 OF THE 2017 NEC.
- R. ARC FAULT INTERRUPTER PROTECTION SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.12 OF THE 2017 NEC.
- S. TAMPER RESISTANT RECEPTACLES SHALL BE PROVIDED AT ALL LOCATIONS AS REQUIRED BY SECTION 406.12 (DWELLING UNITS) OF THE 2017 NEC.

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**ELECTRICAL
SYMBOLS
LEGEND**

E001

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FIRST FLOOR LIGHTING RCP

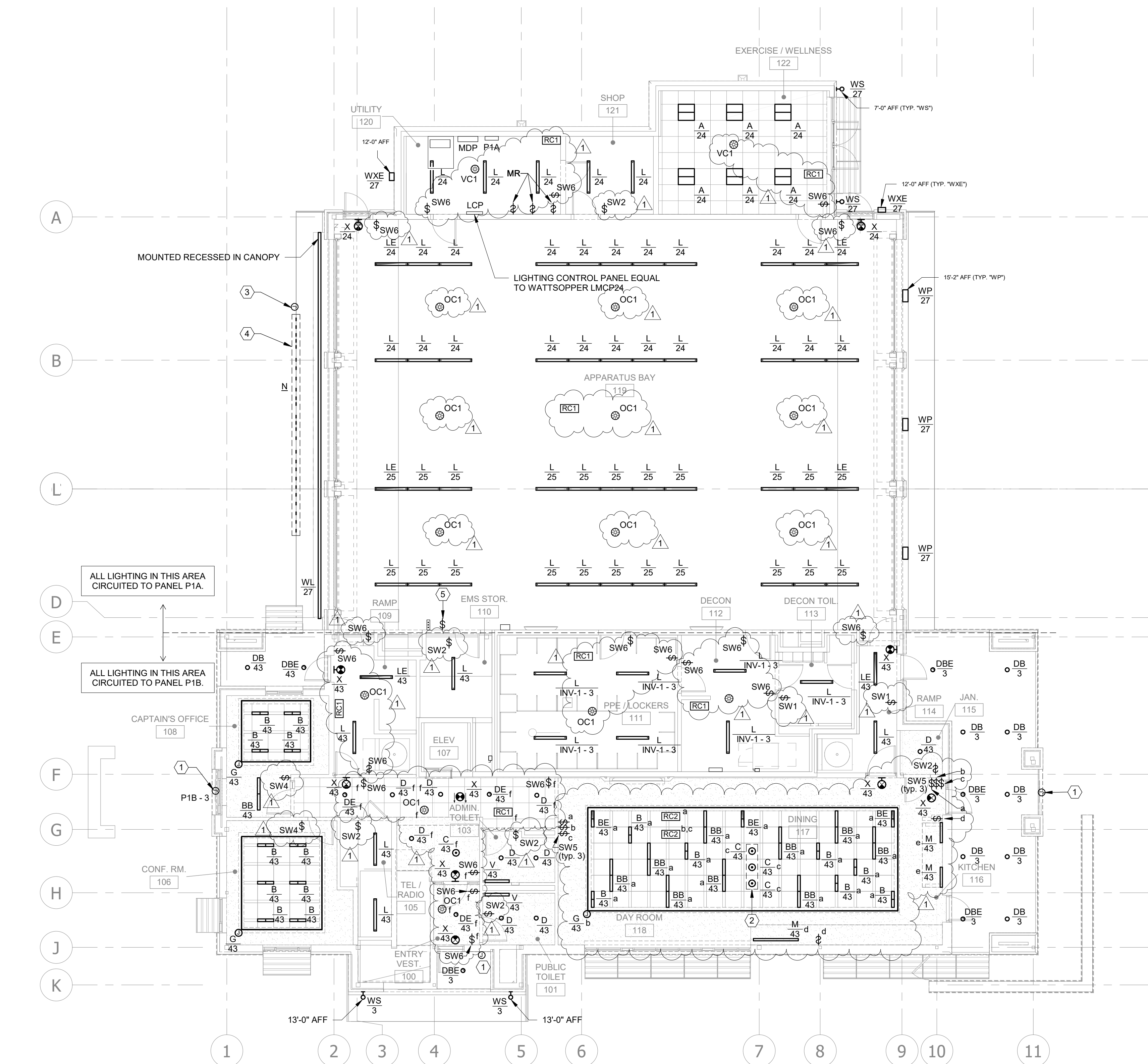
E101

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LIGHTING PLAN NOTES:

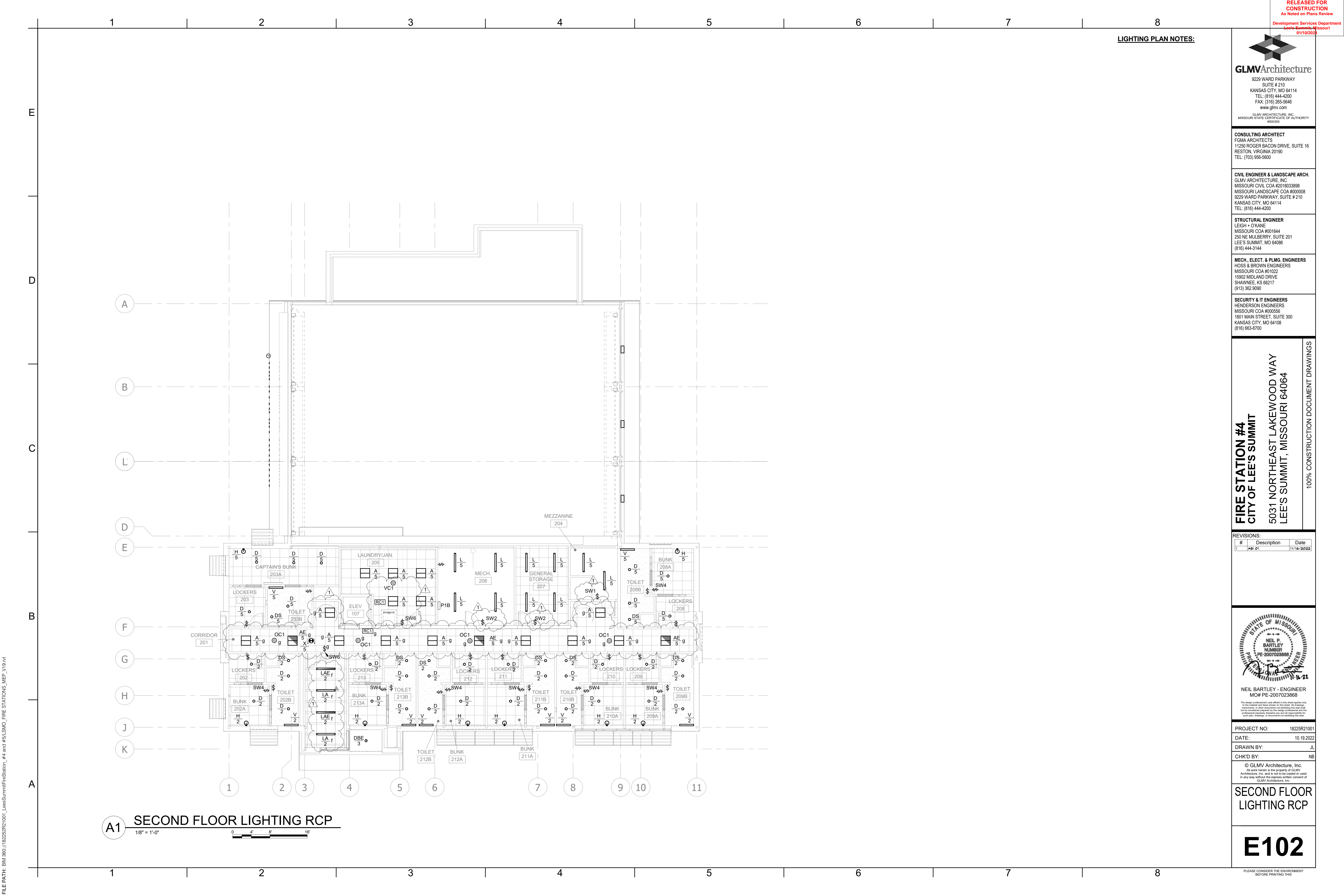
- 1 J-BOX INSTALLED TO PROVIDE POWER FOR BUILDING MOUNTED SIGNAGE WITH INTEGRAL LIGHTING.
- 2 BOTTOM OF "C" FIXTURES IN DINING SHALL BE HUNG 6'-4" AFF.
- 3 J-BOX INSTALLED TO PROVIDE POWER TO DRIVER AND LED STRIP LIGHTS FOR OUTDOOR SIGNAGE LIGHTING.
- 4 LED STRIP SHALL BE INSTALLED BEHIND EACH LETTER BETWEEN STUDS AT THE TOP OF EACH SPACE. THE LED STRIP SHALL BE INSTALLED AT A LENGTH FROM STUD TO STUD INDIVIDUAL SECTIONS SHOULD EACH HAVE A FIXTURE WHIP LONG ENOUGH TO REACH THE DRIVER LOCATION ALL CONNECTIONS TO THE DRIVER SHALL OCCUR INSIDE THE BUILDING. COORDINATE EXACT REQUIREMENTS OF INSTALLATION WITH ARCHITECT BEFORE ROUGH IN.
- 5 RGBW LIGHTING CONTROLLER STATION FOR SIGN LIGHTING. TO CONTROL FIXTURE TYPE N LOCATED IN CANOPY.

ALL EXTERIOR LIGHTING AND SIGNAGE TO BE CIRCUITED THROUGH LIGHTING CONTROL PANEL 'LCP'.



A1 FIRST FLOOR LIGHTING RCP
1/8" = 1'-0"





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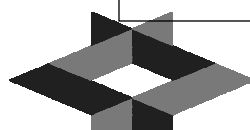
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SECOND FLOOR
LIGHTING RCP

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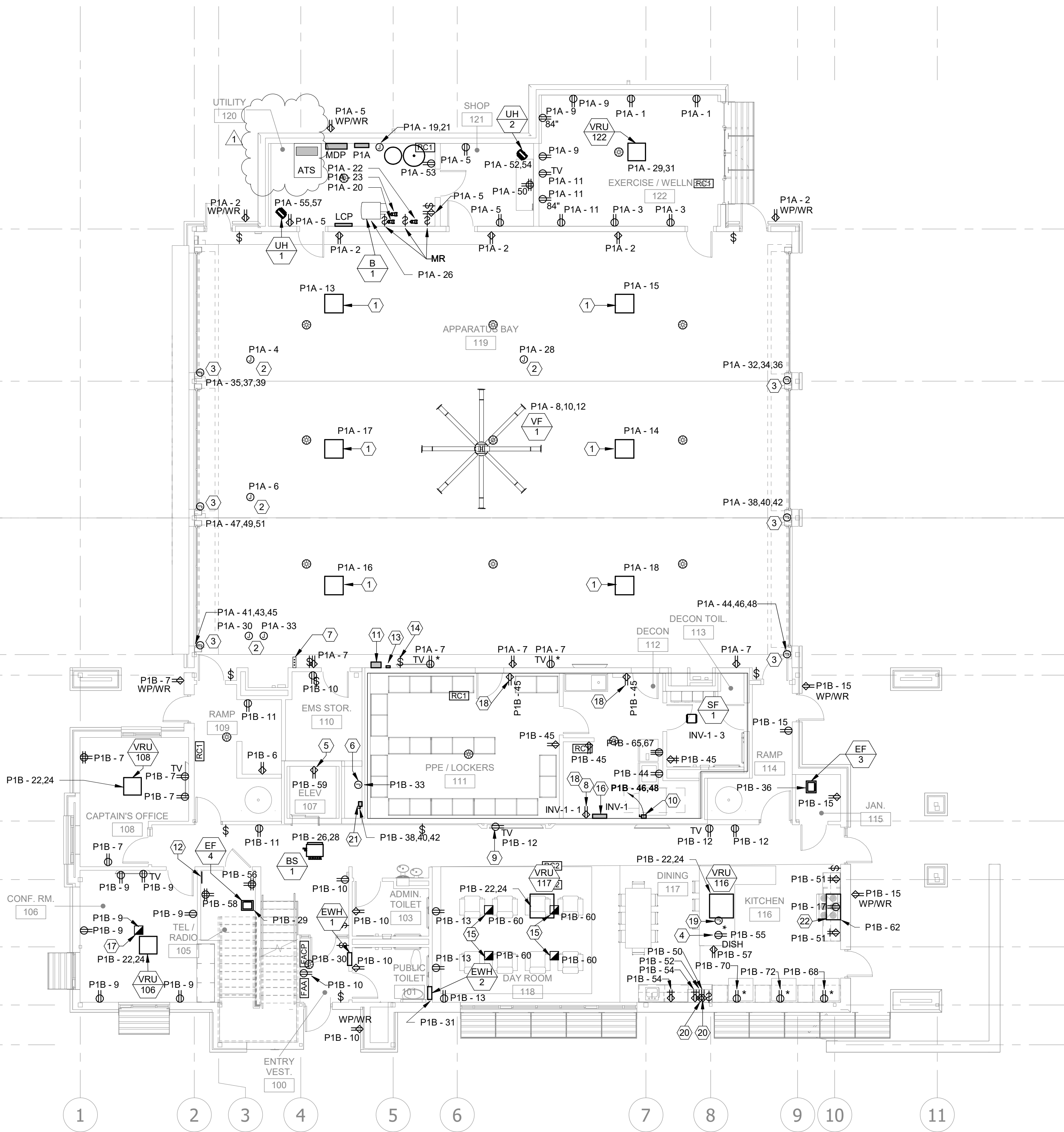
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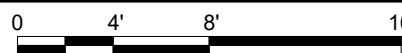
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ELECTRICAL PLAN NOTES:

- 1 REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR AIR-VAC SYSTEM DETAILS.
- 2 PROVIDE 30FT. HEAVY-DUTY #12 AWG. POWER CORD WITH NEMA 5-20R CONNECTION. PROVIDE STRAIN RELIEF WHERE CORD MOUNTS TO THE J-BOX ABOVE. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 3 J-BOX INSTALLED FOR POWER TO AUTOMATIC GARAGE DOOR. COORDINATE EXACT LOCATION WITH GARAGE DOOR MOTOR INSTALLATION.
- 4 RECEPTACLE INSTALLED UNDER COUNTER FOR DISHWASHER. ROUTE HOMERUN BELOW SLAB TO NEAREST WALL, THEN UP TO ABOVE CEILING.
- 5 GFCI RECEPTACLE INSTALLED IN ELEVATOR PIT.
- 6 J-BOX INSTALLED FOR ELEVATOR LIGHTING.
- 7 GARAGE DOOR CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH IN.
- 8 PROVIDE RED COLORED RECEPTACLE FOR EMERGENCY. POWERED FROM THE INVERTER.
- 9 MOUNT TV RECEPTACLE IN WALL FURRING.
- 10 240V/2P/30A FUSIBLE DISCONNECT IN NEMA 1 ENCLOSURE. PROVIDE FUSES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- 11 AIR-VAC SYSTEM CONTROLLER. REFER MECH.
- 12 PROVIDE GROUNDING BAR IN TEL/RADIO. REFER TO SPECIFICATIONS AND DETAILS FOR MORE INFORMATION.
- 13 MULTI-GAS DETECTION SYSTEM. REFER MECH.
- 14 VF-1 FAN CONTROLLER, REF. MECH.
- 15 TYPE A: SINGLE GANG RECEPTACLE FLOOR BOX. REFER TO SPECS.
- 16 STORM SHELTER INVERTER. REFER TO SPECS.
- 17 TYPE B: TWO GANG RECEPTACLE/DATA FLOOR BOX. REFER TO SPECS. ROUTE 1-1/2" CONDUIT FROM FLOOR BOX UP INTO WALL FOR AV/IT NEEDS.
- 18 RECEPTACLE SHALL BE SURFACE MOUNTED WITH SURFACE RACEWAY.
- 19 PROVIDE POWER CONNECTION AND SWITCH UNDER SINK FOR DISPOSER. ROUTE HOMERUN BELOW SLAB TO NEAREST WALL, THEN UP TO ABOVE CEILING.
- 20 MICROWAVE RECEPTACLES. MOUNT ONE AT 24" AFF., AND THE SECOND AT 5'-6" VERIFY EXACT DIMENSIONS WITH CASEWORK.
- 21 PROVIDE EATON ELEVATOR POWER SWITCH MODEL ES12R2GFI, N.
- 22 PROVIDE JUNCTION BOX AND MAKE ELECTRICAL CONNECTION TO RANGE HOOD AND TO RANGE HOOD CONTROL SWITCH. INSTALL RANGE HOOD FIRE SUPPRESSION APPLIANCE SHUT OFF AND WIRELESS RECEIVER, FURNISHED BY MECH. SUPPRESSION SYSTEM SHALL CUT POWER TO THE RANGE WHEN ACTIVATED. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.



A1 FIRST FLOOR POWER PLAN
1/8" = 1'-0"



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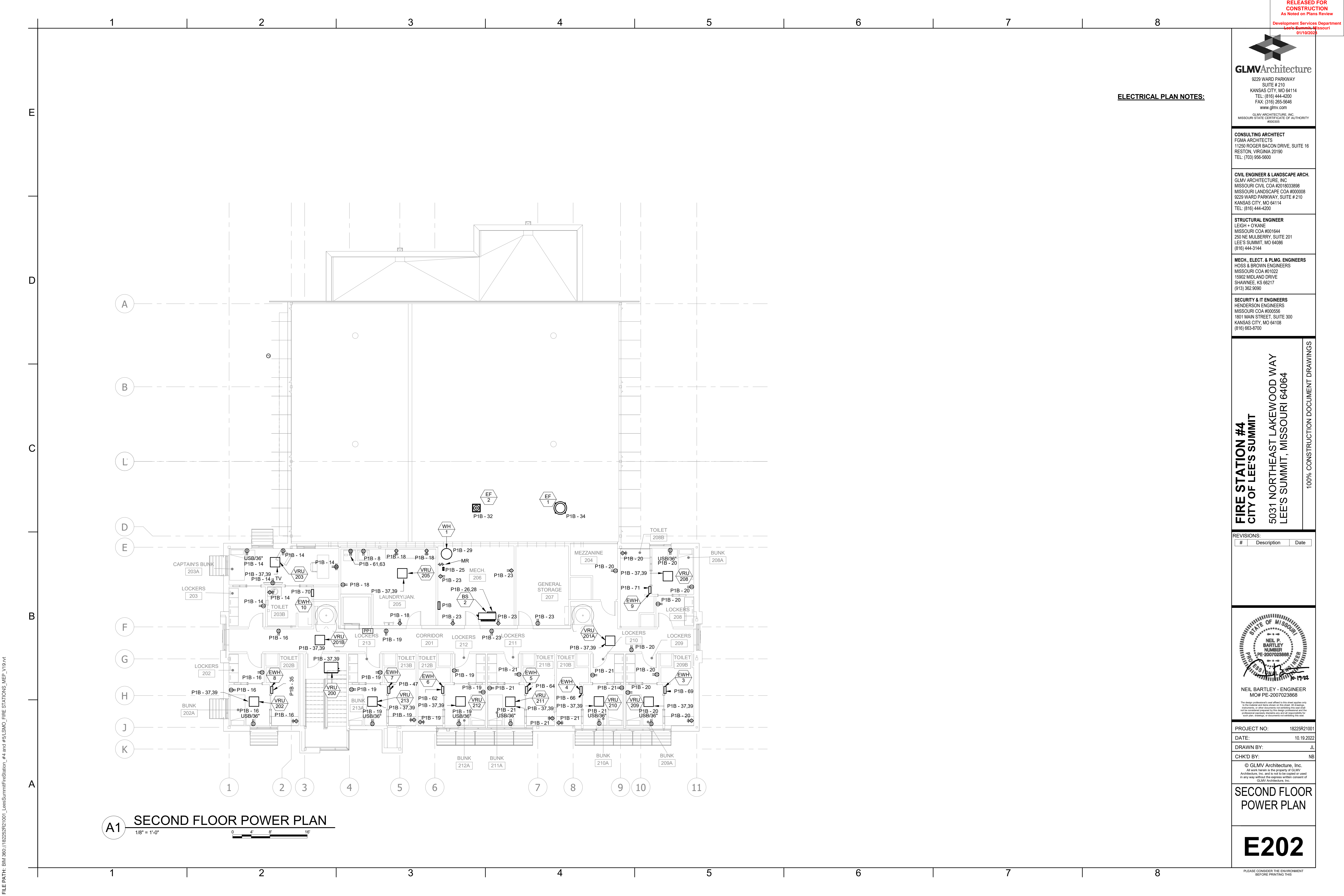
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FIRST FLOOR
POWER PLAN

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PROJECT NO:

18225R21001

DATE:

10.19.2022

DRAWN BY:

JL

CHK'D BY:

NB

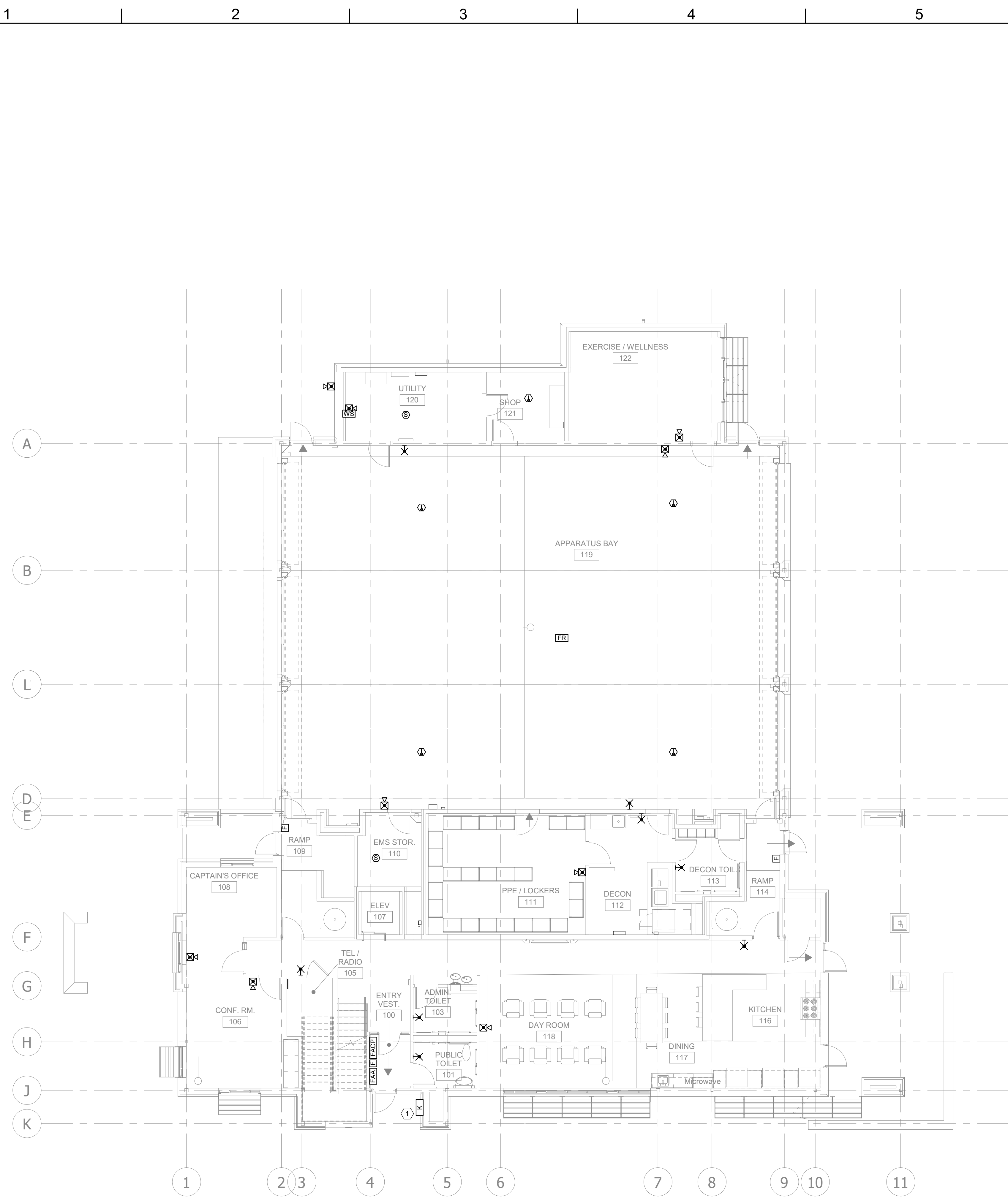
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SECOND FLOOR
POWER PLAN

E202

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FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5/LSMO_FIRE STATIONS MEP_V19.rvt



A1 FIRST FLOOR FIRE ALARM PLAN
1/8" = 1'-0"



ELECTRICAL PLAN NOTES:

- 1 PROVIDE KNOX BOX.

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**FIRE STATION #4
CITY OF LEE'S SUMMIT**
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

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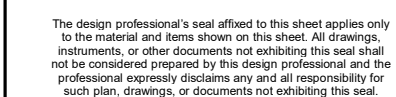
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**FIRST FLOOR
FIRE ALARM
PLAN**

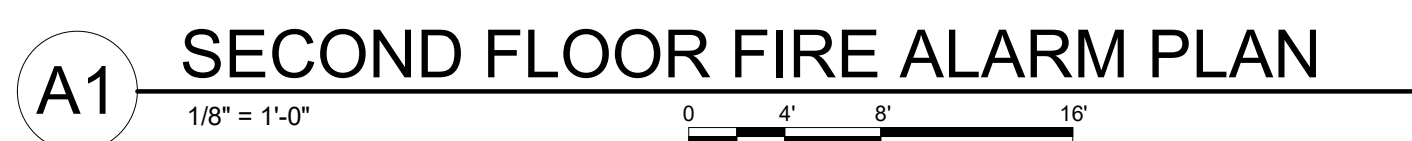
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E402

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A6 FIRE ALARM SEQUENCE OF OPERATIONS
NOT TO SCALE

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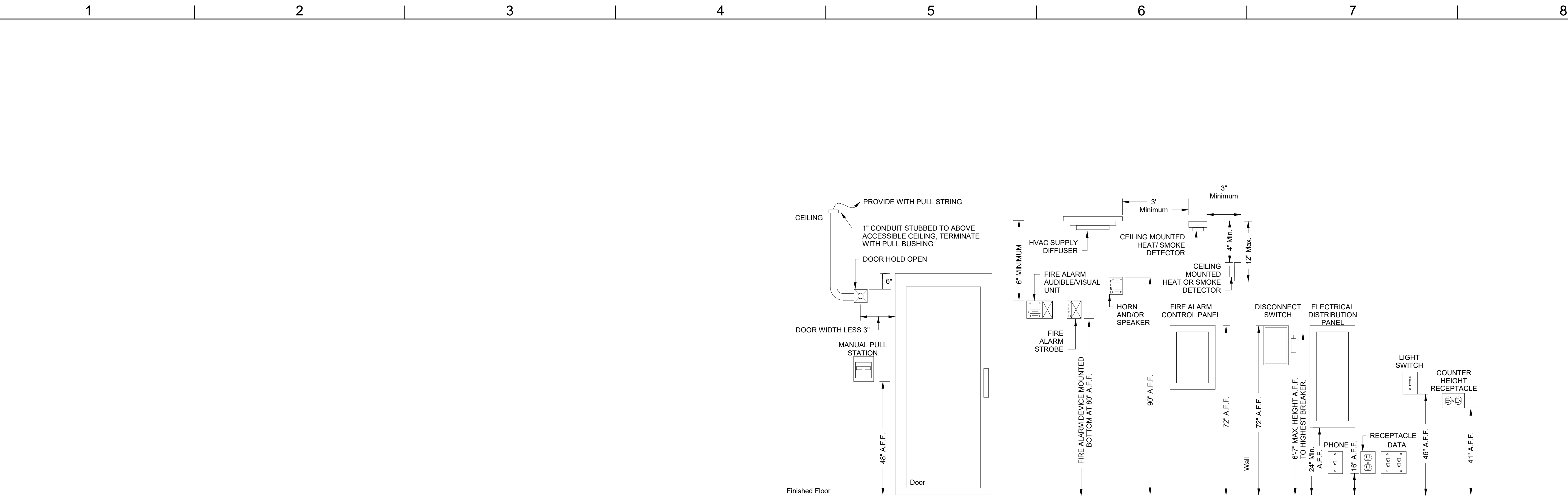
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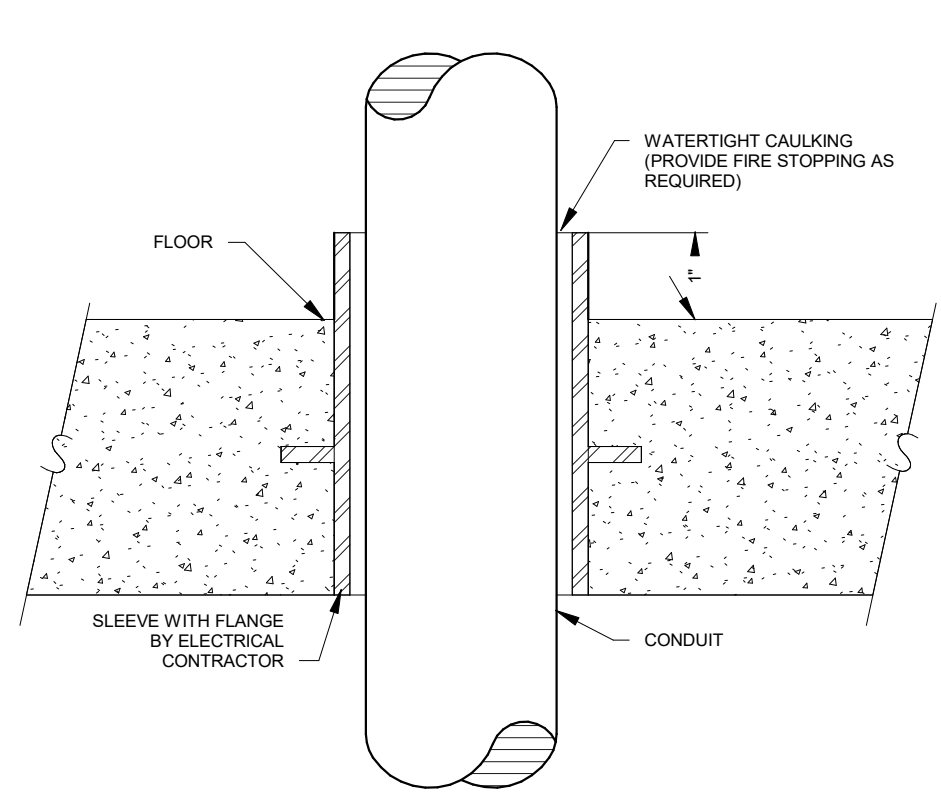
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B

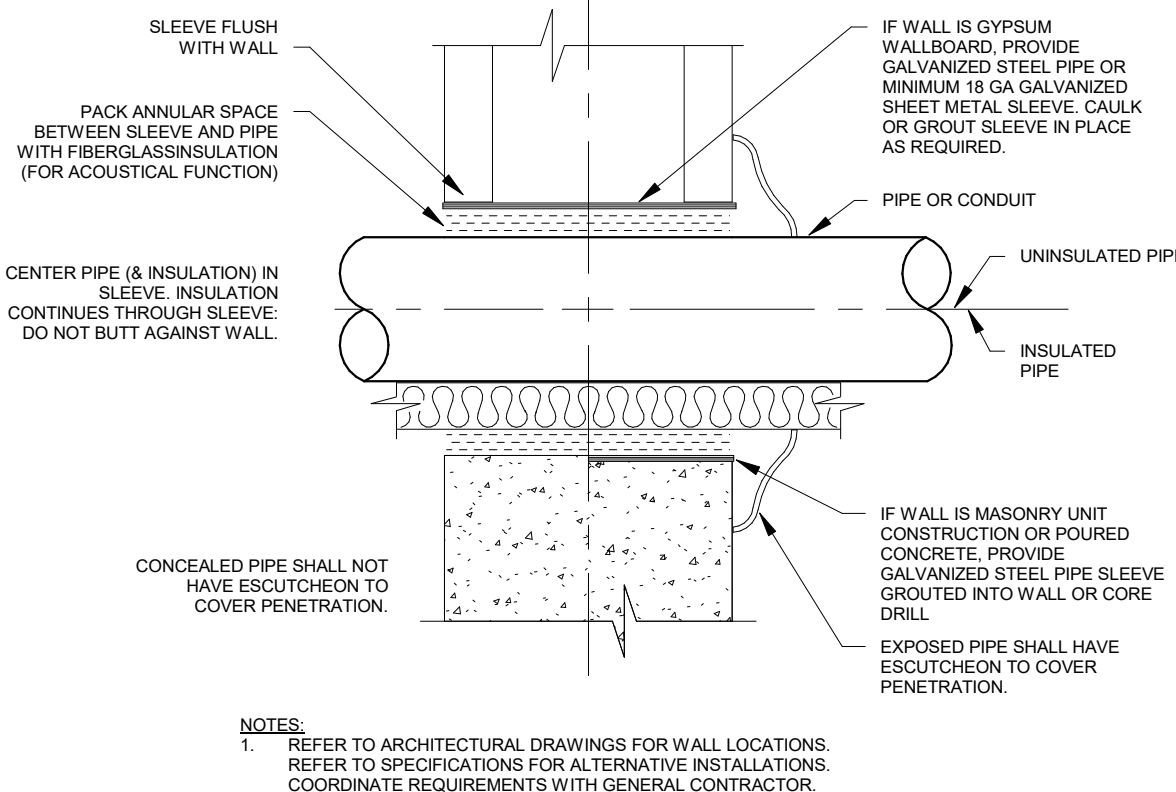
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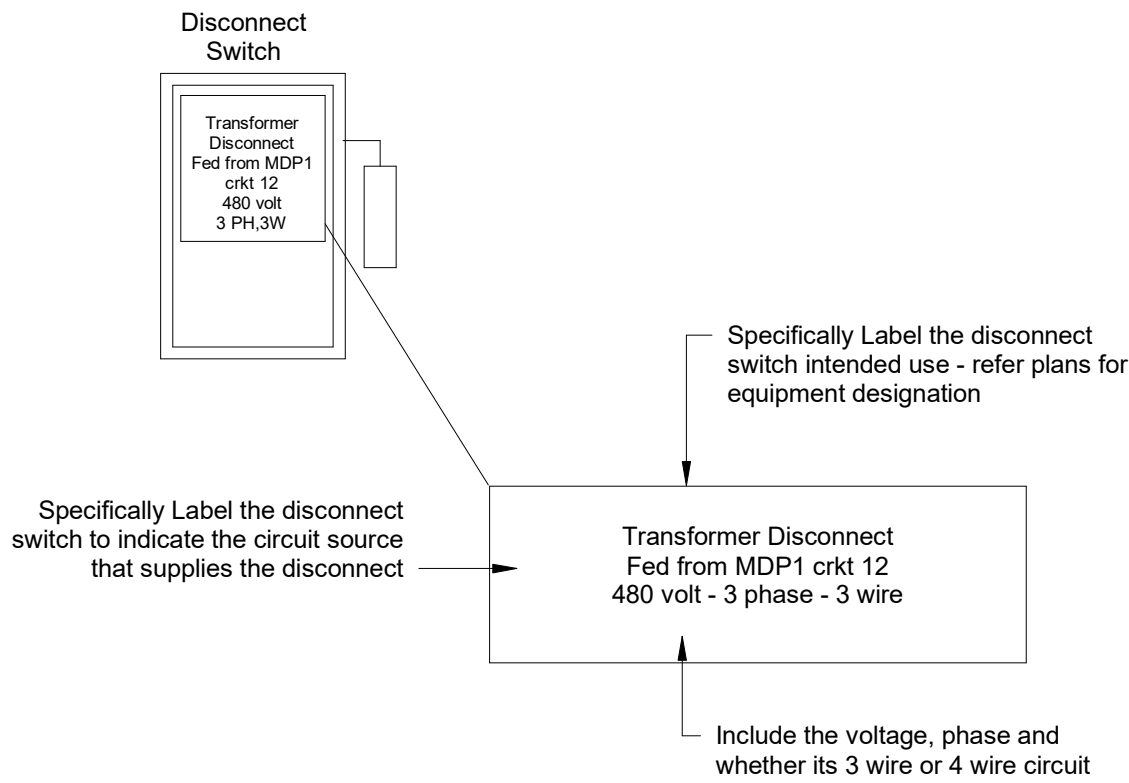
C4 STANDARD MOUNTING HEIGHTS
NOT TO SCALE



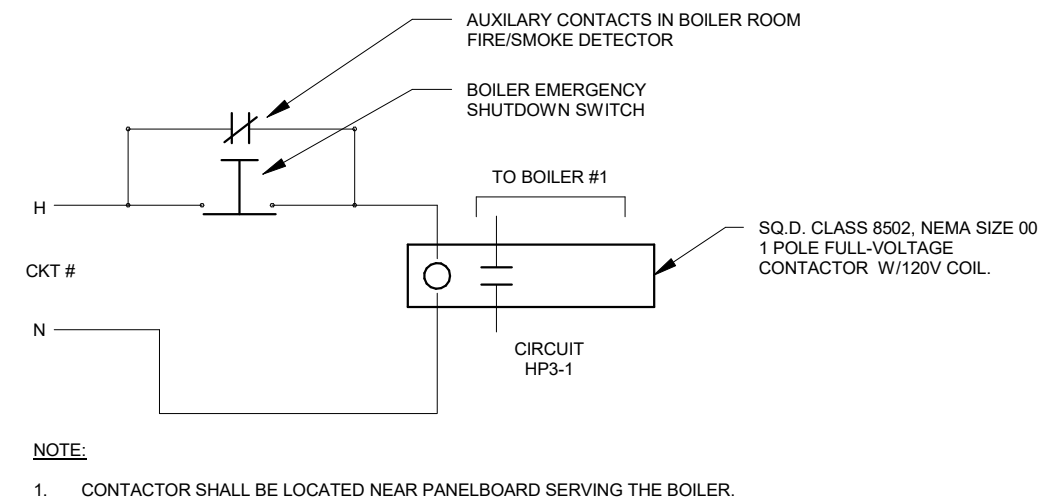
B1 CONDUIT PENETRATION THROUGH FLOOR
NOT TO SCALE



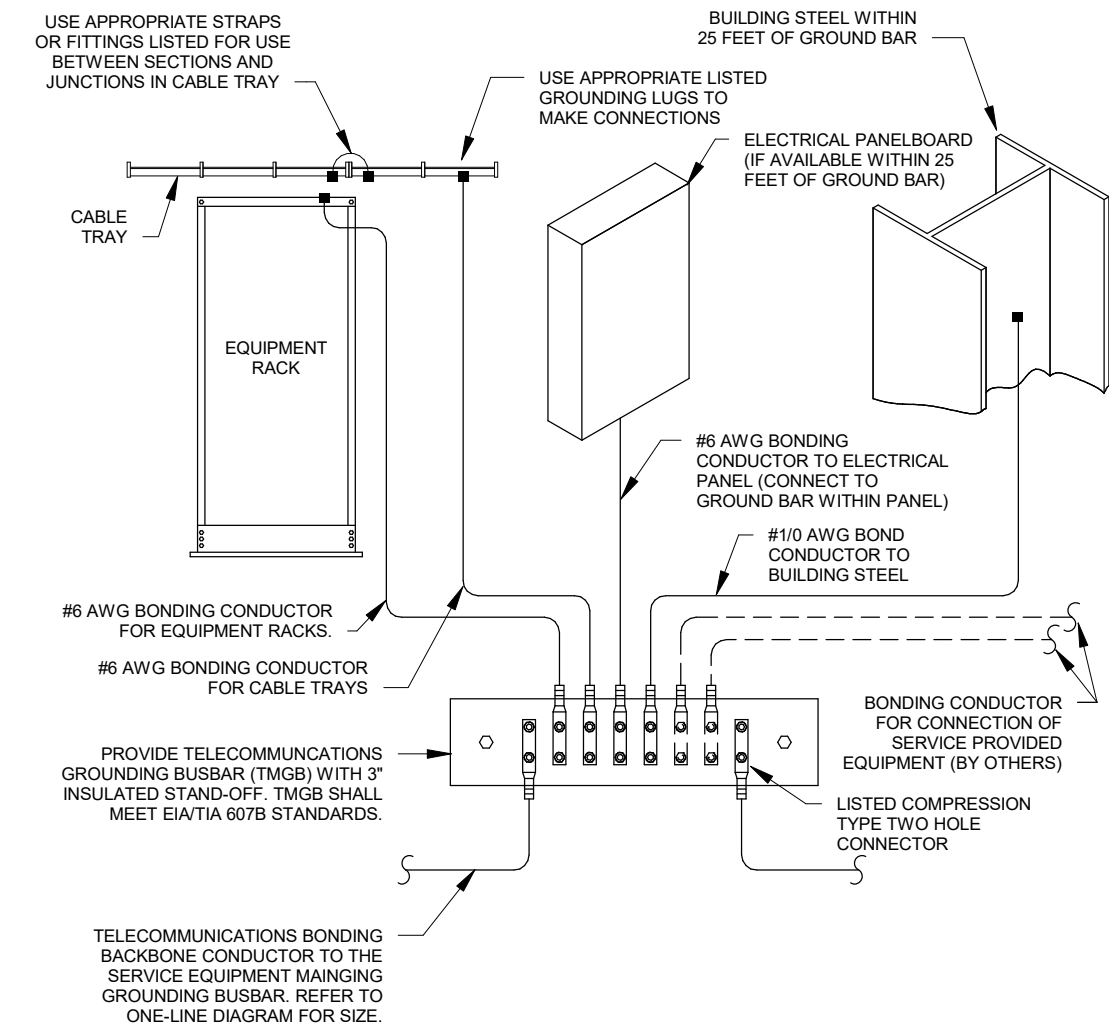
B2 CONDUIT PENETRATION THROUGH NON-FIRE RATED WALL
NOT TO SCALE



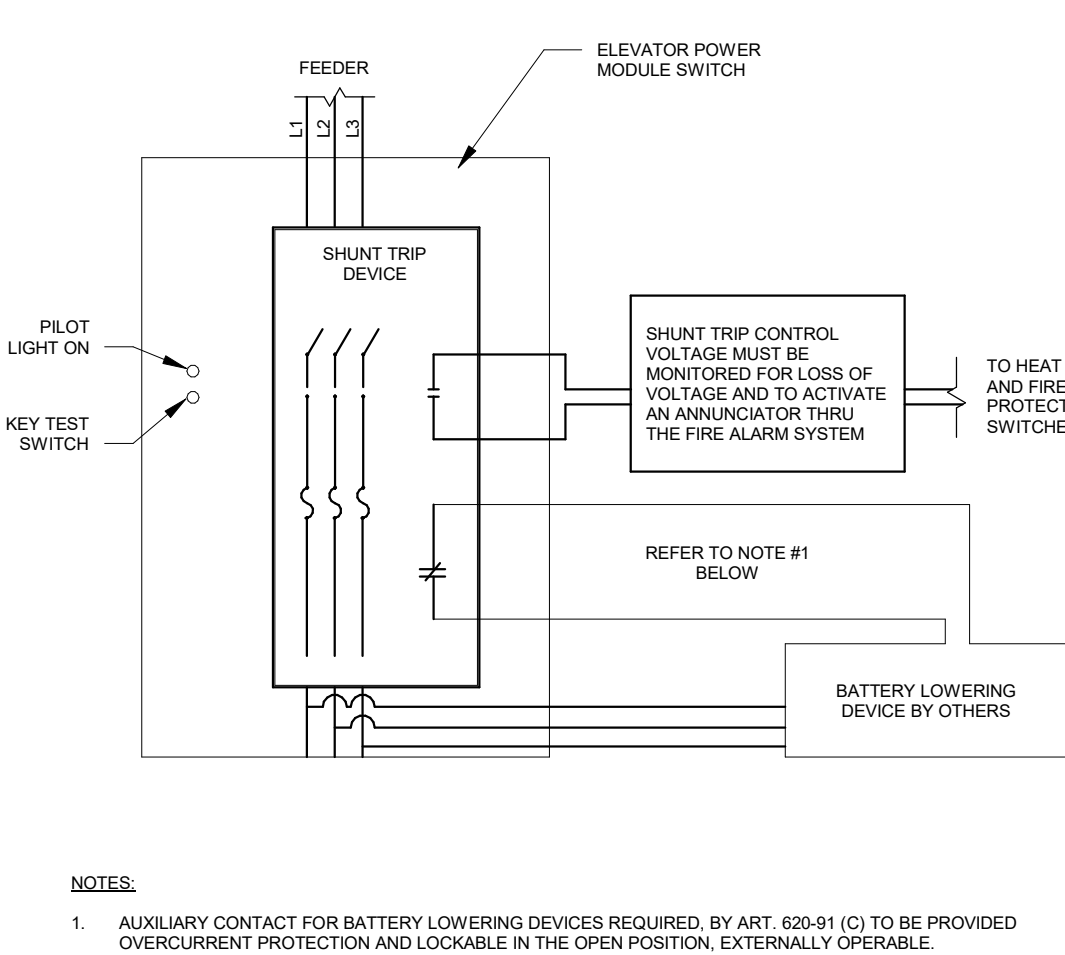
B4 DISCONNECT LABELING
NOT TO SCALE



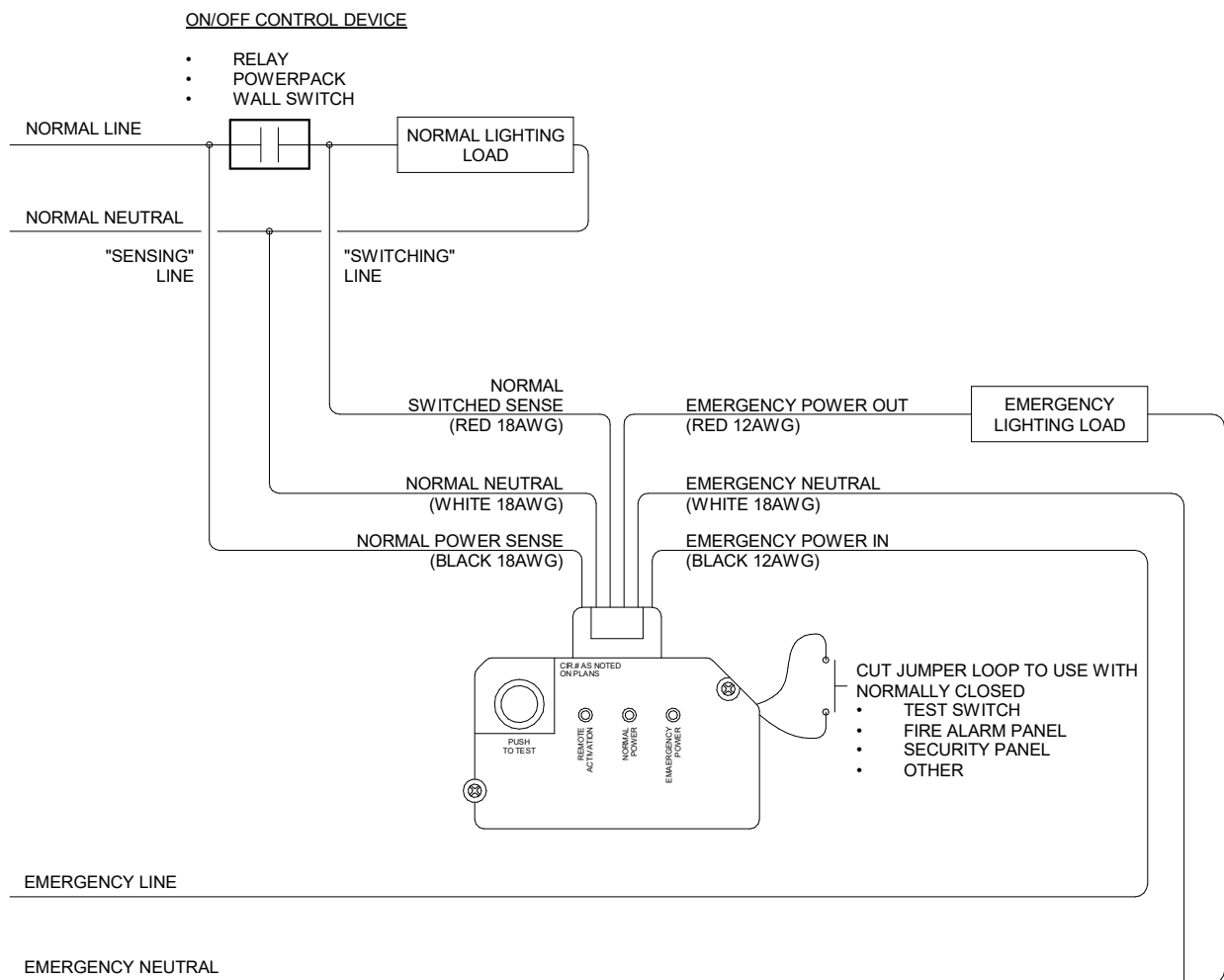
B6 EMERGENCY BOILER SHUTDOWN DETAIL
NOT TO SCALE



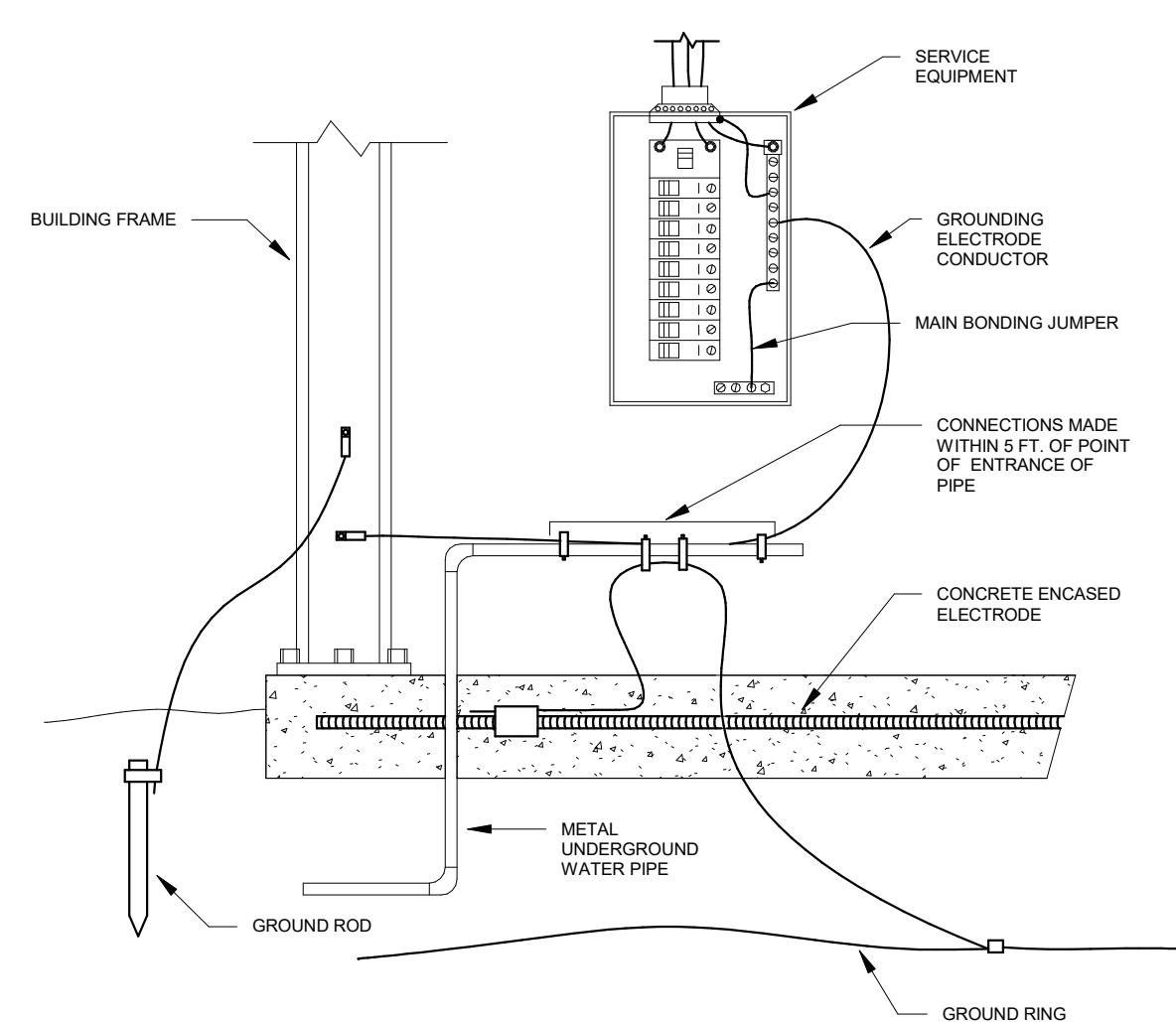
A1 TMGB CONNECTION DETAIL
NOT TO SCALE



A2 ELEVATOR SHUNT TRIP DEVICE WIRING DIAGRAM
NOT TO SCALE



A4 EMERGENCY LIGHTING CONTROL UNIT WIRING DIAGRAM
NOT TO SCALE



A6 GROUNDING ELECTRODE SYSTEM
NOT TO SCALE

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ELECTRICAL DETAILS

E501

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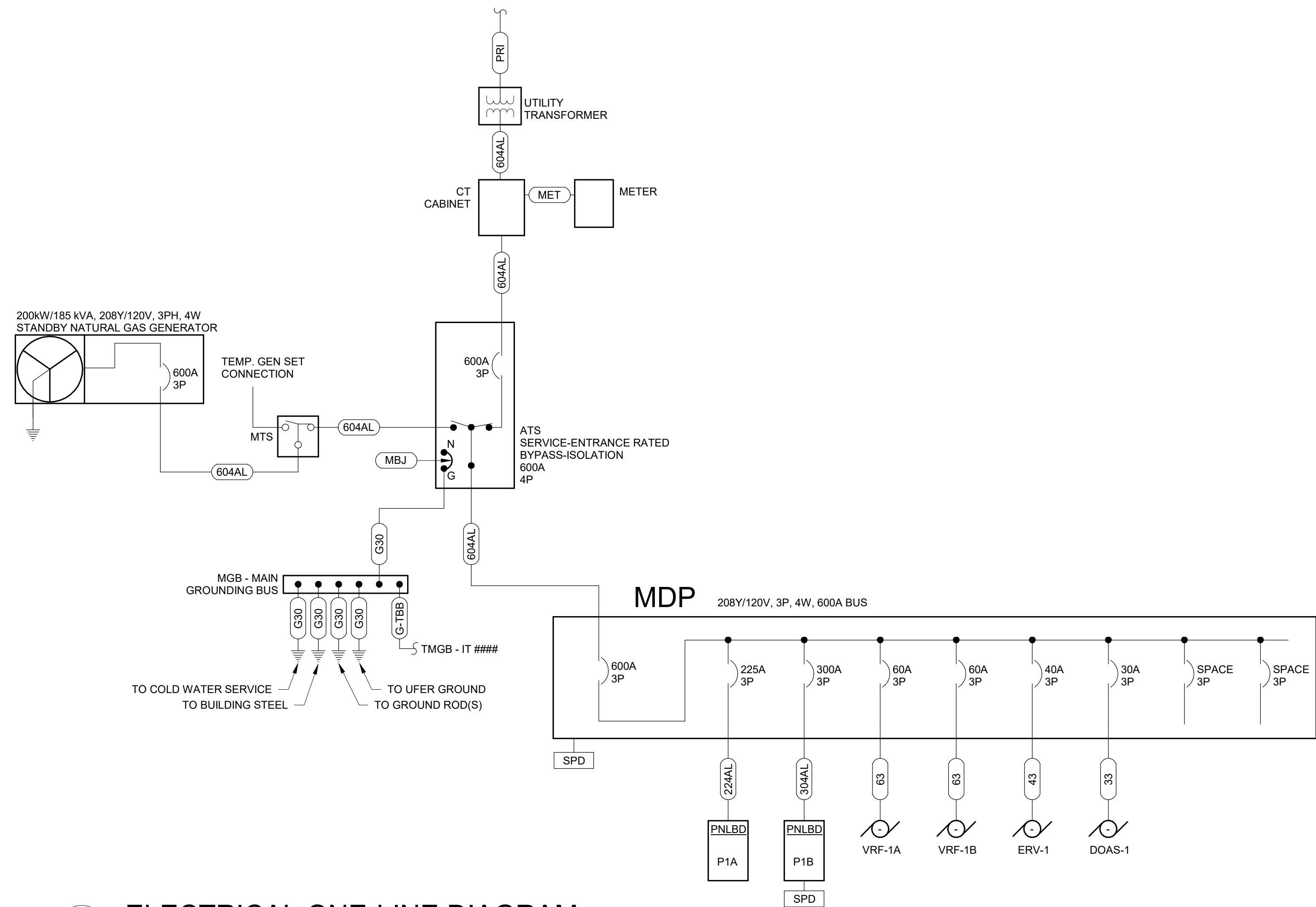
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ELECTRICAL ONE-LINE DIAGRAM

E502

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C3 ELECTRICAL ONE-LINE DIAGRAM
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FEEDER SCHEDULE		
FEEDER TAG	FEEDER SIZE	
23	20 A, (3)#12, (1)#12 G, 0.75" C	
33	30 A, (3)#10, (1)#10 G, 0.75" C	
43	40 A, (3)#8, (1)#10 G, 0.75" C	
44	40 A, (4)#8, (1)#10 G, 0.75" C	
53	50 A, (3)#8, (1)#10 G, 0.75" C	
54	50 A, (4)#8, (1)#10 G, 0.75" C	
54T	50 A, (4)#8, (1)#8 SSBJ, 0.75" C	
63	60 A, (3)#6, (1)#10 G, 1" C	
64	60 A, (4)#6, (1)#10 G, 1" C	
73	70 A, (3)#4, (1)#8 G, 1" C	
74	70 A, (4)#4, (1)#8 G, 1.25" C	
83	80 A, (3)#4, (1)#8 G, 1" C	
84	80 A, (4)#4, (1)#8 G, 1.25" C	
93	90 A, (3)#3, (1)#8 G, 1.25" C	
94	90 A, (4)#3, (1)#8 G, 1.25" C	
103	100 A, (3)#3, (1)#8 G, 1.25" C	
104	100 A, (4)#3, (1)#8 G, 1.25" C	
104T	100 A, (4)#3, (1)#8 SSBJ, 1.25" C	
123	125 A, (3)#1, (1)#6 G, 1.5" C	
124	125 A, (4)#1, (1)#6 G, 1.5" C	
153	150 A, (3)#10, (1)#6 G, 1.5" C	
154	150 A, (4)#10, (1)#6 G, 1.5" C	
154T	150 A, (4)#10, (1)#6 SSBJ, 1.5" C	
173	175 A, (3)#20, (1)#6 G, 1.5" C	
174	175 A, (4)#20, (1)#6 G, 1.5" C	
203	200 A, (3)#30, (1)#6 G, 2" C	
204	200 A, (4)#30, (1)#6 G, 2" C	
223	225 A, (3)#40, (1)#4 G, 2.5" C	
224	225 A, (4)#40, (1)#4 G, 2.5" C	
224AL	225 A, (4)300kcmil, (1)#2 G, 3" C (ALUMINUM)	
224T	225 A, (4)#40, (1)#2 SSBJ, 2.5" C	
253	250 A, (3)250kcmil, (1)#4 G, 2.5" C	
254	250 A, (4)250kcmil, (1)#4 G, 2.5" C	
303	300 A, (3)350kcmil, (1)#4 G, 3" C	
304	300 A, (4)350kcmil, (1)#4 G, 3" C	
304AL	300A, (2) sets of (4)#30, #2 G, 2" C (ALUMINUM)	
353	350 A, (3)500kcmil, (1)#3 G, 3" C	
354	350 A, (4)500kcmil, (1)#3 G, 3" C	
403	400 A, (2) sets of (3)#30, (1)#3 G, 2" C	
404	400 A, (2) sets of (4)#30, (1)#3 G, 2" C	
404T	400 A(2) sets of (4)#30, (1)#10 SSBJ, 2.5" C	
503	500 A, (2) sets of (4)250kcmil, (1)#2 G, 2.5" C	
504	500 A, (2) sets of (4)250kcmil, (1)#2 G, 2.5" C	
604	600 A, (2) sets of (4)350kcmil, (1)#1 G, 3" C	
604AL	600 A, (2) sets of (4)500kcmil, (1)#20 G, 3" C (ALUMINUM)	
604T	600 A, (2) sets of (4)350kcmil, (1)#20 SSBJ, 3" C	
803	800 A, (3) sets of (3)300kcmil, (1)#10 G, 3" C	
804	800 A, (4) sets of (3)300kcmil, (1)#10 G, 3" C	
804S	800 A, (4) sets of (3)300kcmil, 3" C	
1004	1000 A, (3) sets of (4)400kcmil, (1)#20 G, 3" C	
1204	1200 A, (4) sets of (4)350kcmil, (1)#30 G, 3" C	
1604	1600 A, (5) sets of (4)400kcmil, (1)#40 G, 3" C	
2504	2500 A, (8) stfs of (4)400kcmil, (1)#350 G, 3" C	
G2	#2 COPPER GROUND, 0.75" C	
G4	#4 COPPER GROUND, 0.75" C	
G6	#6 COPPER GROUND, 0.75" C	
G8	#8 COPPER GROUND, 0.75" C	
G10	#10 COPPER GROUND, 1" C	
G20	#20 COPPER GROUND, 1" C	
G30	#30 COPPER GROUND, 1" C	
G-TBB	250kcmil to 1.5" PVC	
MBJ	MAIN BONDING JUMPER, #3/0 COPPER GROUND	
MET	1.25" C WITH PULL WIRE. UTILITY GROUND METER PER UTILITY STANDARDS.	
PRI	4" C WITH PULL TAPE. PRIMARY UTILITY SERVICE FEEDER. COORDINATE ALL REQUIREMENTS WITH UTILITY.	

OL	REFER TO ONE-LINE DIAGRAM
AF	ARC FAULT CIRCUIT BREAKER
GF	GROUND FAULT CIRCUIT BREAKER
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER
FA	PROVIDE RED HANDLE-ON CLAMP FOR FIRE ALARM CIRCUIT
HLO	PROVIDE PAD LOCKABLE-OFF DEVICE CAPABLE OF SECURING BREAKER HANDLE IN THE OFF POSITION.
ST	PROVIDE SHUNT TRIP DEVICE FOR BREAKER



A. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES
B. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.
C. REFERENCE PLANS FOR FIXTURES REQUIRING EMERGENCY DRIVERS.
D. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES

PANELBOARD SCHEDULE LEGEND	
OL	REFER TO ONE-LINE DIAGRAM
AF	ARC FAULT CIRCUIT BREAKER
GF	GROUND FAULT CIRCUIT BREAKER
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER
FA	PROVIDE RED HANDLE-ON CLAMP FOR FIRE ALARM CIRCUIT
HLO	PROVIDE PAD LOCKABLE-OFF DEVICE CAPABLE OF SECURING BREAKER HANDLE IN THE OFF POSITION.
ST	PROVIDE SHUNT TRIP DEVICE FOR BREAKER

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MARK D. MAURER

E

D

C

B

A

GENERAL NOTES	
SPECIFICATION REFERENCES:	
1.	REFER TO DIVISION 27 SPECIFICATION SECTION "AUDIO-VIDEO SYSTEMS" AND RELATED DOCUMENTS AND SECTIONS FOR PRODUCT INFORMATION AND ADDITIONAL REQUIREMENTS.
2.	CATEGORY AND FIBER CABLEING SHALL BE INSTALLED, TERMINATED, AND TESTED PER DIVISION 27 SECTION "TELECOMMUNICATIONS REQUIREMENTS FOR AUDIO-VIDEO SYSTEMS".
GENERAL PATHWAY NOTES:	
1.	ALL BUILDING INFRASTRUCTURE, CONDUIT, AND PATHWAYS INCLUDING BUT NOT LIMITED TO CONDUIT, RACEWAYS, CABLE TRAYS, PEDESTALS, BACK BOXES, JUNCTION BOXES, FLOOR BOXES, DOORS, LIDS, AND COVERS ARE PER DIVISION 27 SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS" UNLESS OTHERWISE NOTED WITHIN THIS DRAWING SERIES SET.
2.	REFER TO "CONDUIT ROUTING AND SEPARATION" ON THIS SHEET FOR CONDUIT SPACING INFORMATION.
3.	PROVIDE CONTINUOUS UNOBSTRUCTED CABLE PATH FOR ENTIRE LENGTH OF CABLE RUN. EXPOSED CABLEING MAY REQUIRE CONDUIT TRANSITION(S) TO ACHIEVE A COMPLETE PATHWAY.
4.	COORDINATE ANY CONFLICTS WITH APPROPRIATE DISCIPLINES.
5.	REFER TO LIFE SAFETY PLANS FOR LOCATION OF FIRE- AND SMOKE-RATED WALLS AND FLOORS. PROVIDE LISTED FIRESTOPPING SYSTEMS FOR PENETRATIONS PER DIVISION 27 SPECIFICATION SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS".
BOX SCHEDULE NOTES:	
1.	VERIFY QUANTITIES, LOCATIONS, AND MOUNTING WITH PLAN, DETAIL, AND EQUIPMENT VIEW DRAWINGS.
2.	ALL BOXES SHOWN IN SCHEDULE ARE PER DIVISION 27 SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS" UNLESS OTHERWISE NOTED WITHIN THIS DRAWING SERIES SET.
3.	FIELD VERIFY MOUNTING CONDITIONS AND BOX SIZE PRIOR TO INSTALLATION.
4.	WALL MOUNTED BOXES SHOWN AT SWITCH OR CONVENIENCE OUTLET HEIGHT SHALL MATCH MOUNTING HEIGHT OF ADJACENT BOXES ON WALL UNLESS OTHERWISE NOTED.
5.	WALL MOUNTED TERMINATION GANG BOXES SHALL BE MOUNTED 18" A.F.F. TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
6.	WALL MOUNTED TERMINATION NEMA AND MANUFACTURER SPECIFIC BOXES SHALL BE MOUNTED 16" A.F.F. TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.
7.	SURFACE MOUNTED BOXES SHALL BE PAINTED TO MATCH SURROUNDING FINISH.
8.	COORDINATE ANY CONFLICTS WITH APPROPRIATE DISCIPLINES.
GENERAL PANEL AND PLATE NOTES:	
1.	CUSTOM TERMINATION COVER PANELS AND PLATES SHALL BE PROVIDED PER SPECIFICATION SECTION "AUDIO-VIDEO SYSTEMS" REQUIREMENTS AND SHALL BE SIZED TO APPROPRIATELY SELF-TRIM THEIR CORRESPONDING BACK BOX.
2.	ALL PANELS AND PLATES SHALL BE 1/8" THICK (MINIMUM) BLACK ANODIZED ALUMINUM WITH ENGRAVED OR LASER ETCHED LETTERING OF A CONTRASTING COLOR. DEFAULT ENGRAVED TEXT COLOR SHALL BE WHITE. UTILIZE 3/16" UPPER CASE LETTERING, SANS-SERIF FONT. VERIFY PLATE COLOR WITH ARCHITECT.
3.	REINFORCE PLATE AND/OR INCREASE PLATE THICKNESS TO MINIMIZE DEFLECTION.
4.	UTILIZE COUNTERSUNK SCREW HEADS. SCREWS HEADS SHALL MATCH PLATE COLOR.
5.	ANY PANEL AND PLATE DETAILS OR INFORMATION RELATED TO TERMINATION PLATING CONTAINED IN THIS SET ARE INCLUDED FOR COMMUNICATION OF FABRICATION REQUIREMENTS AND ARE FOR CONCEPT ONLY. LAYOUTS DO NOT REFLECT SPECIFIC REQUIREMENTS FOR THIS PROJECT UNLESS SPECIFICALLY STATED AS SUCH. VERIFY SIZES OF ALL COMPONENTS AND BOXES PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
6.	FIELD VERIFY THE SIZE OF ALL COMPONENTS AND BOXES PRIOR TO INSTALLATION. MODIFY PLATE SIZES IN THE CASE OF ALTERATIONS TO FIELD CONDITIONS.
7.	REFER TO SPECIFICATIONS FOR SUBMITTAL AND ADDITIONAL PANEL AND PLATE REQUIREMENTS.
CABLE TERMINATION NOTES:	
1.	ALL AUDIO TERMINATIONS SHOULD COMPLY WITH RANE CORPORATION RANENOTE 110 REFERENCE FOR SOUND SYSTEM INTERCONNECTION.
EQUIPMENT RACK NOTES:	
1.	REFER TO SPECIFICATIONS FOR RACK LAYOUT SUBMITTAL REQUIREMENTS.
2.	ANY RACK LAYOUTS OR INFORMATION RELATED TO EQUIPMENT RACKING CONTAINED IN THIS SET ARE FOR CONCEPT ONLY. VERIFY RACK LAYOUT FOR EQUIPMENT FURNISHED PRIOR TO SUBMITTAL OF SHOP DRAWINGS. REVISE AS REQUIRED FOR ALTERNATES ACCEPTED OR REJECTED.
3.	IF THERE ARE DIFFERENCES IN EQUIPMENT RACKING INFORMATION TO THAT SHOWN ON THE SIGNAL FLOW DIAGRAMS, SIGNAL FLOWS SHALL TAKE PRECEDENCE.
LOUDSPEAKER INSTALLATION NOTES:	
1.	ANY STRUCTURAL DETAILS, STRUCTURAL MEMBER TYPES, SIZES, AND ATTACHMENT METHODS CONTAINED IN THIS SET ARE SHOWN FOR CONCEPT ONLY. FINAL DESIGN, INCLUDING DOCUMENTATION STAMPED BY STRUCTURAL ENGINEER (PROVIDED AS PORTION OF SHOP DRAWING REQUIREMENTS), SHALL BE MADE BY THE CONTRACTOR AND SHALL BE VERIFIED BY THE OWNER AND AV CONSULTANT.
2.	REFER TO SPECIFICATIONS FOR ALL MOUNTING, INSTALLATION, ACCESS, AND SHOP DRAWING REQUIREMENTS.
3.	EXPOSED LOUDSPEAKER CIRCUITS UTILIZING STRUCTURAL STEEL PATHWAYS SHALL BE ROUTED HIGH WITHIN TRUSS SPACE OR WHERE OTHERWISE PROTECTED FROM DAMAGE. ROUTING SHALL MINIMIZE CIRCUIT LENGTH BETWEEN LOUDSPEAKER AND EQUIPMENT RACK WHERE FEASIBLE. NEATLY BUNDLE CIRCUITS AND FASTEN SECURELY TO STRUCTURE TO ENSURE PROPER SUPPORT AND PROTECTION. TO MINIMIZE DAMAGE FROM TEMPORARY RIGGING ACTIVITIES ASSOCIATED WITH SPECIAL EVENT SUPPORT, AVOID ROUTING CIRCUITS IN AREAS PRONE TO THIS USE, I.E. BOTTOM CHORDS OF TRUSSES. AVOID CONTACT OR CONFLICT WITH OTHER BUILDING ELEMENTS SUCH AS LIGHTING FIXTURES & BALLASTS, DUCTS, RIGGING, AND SHARP EDGES. CABLE COLOR SHALL MATCH SURROUNDING ELEMENTS.

CONDUIT/CIRCUIT GROUP DIVISIONS				
GROUP	DESCRIPTIONS	LEVEL	BANDWIDTH	
A	CONTROL CIRCUITS DATA CIRCUITS FIBER CIRCUITS	0-28 VOLT INTO <50 KOHMS 2 VOLT PEAK-TO-PEAK INTO 100 OHMS	0 Hz TO 250 MHz 0 Hz TO 500 MHz	
L	LINE LEVEL AUDIO CIRCUITS	-30dBu TO +24dBu	20 Hz TO 20kHz	
M	MICROPHONE LEVEL AUDIO CIRCUITS	BELOW -30dBu	20 Hz TO 20kHz	
P	PRODUCTION INTERCOM COMMUNICATION CIRCUITS	-30dBu TO +24dBu	20 Hz TO 20kHz	
S	SPEAKER LEVEL AUDIO CIRCUITS INCLUDING BOTH LOW IMPEDANCE AND HIGH IMPEDANCE (70 VOLT) TYPES	GREATER THAN +24dBu	20 Hz TO 20kHz	
V	VIDEO CIRCUITS	1 VOLT PEAK-TO-PEAK INTO 75 OHMS	0 Hz TO 250 MHz	
W	RF LEVEL CIRCUITS INCLUDING WIRELESS MICROPHONE, ANTENNA CABLE, SATELLITE, ASSISTED LISTENING SYSTEM, AND TV DISTRIBUTION	GREATER THAN +24dBu	5 MHz TO 3GHz	

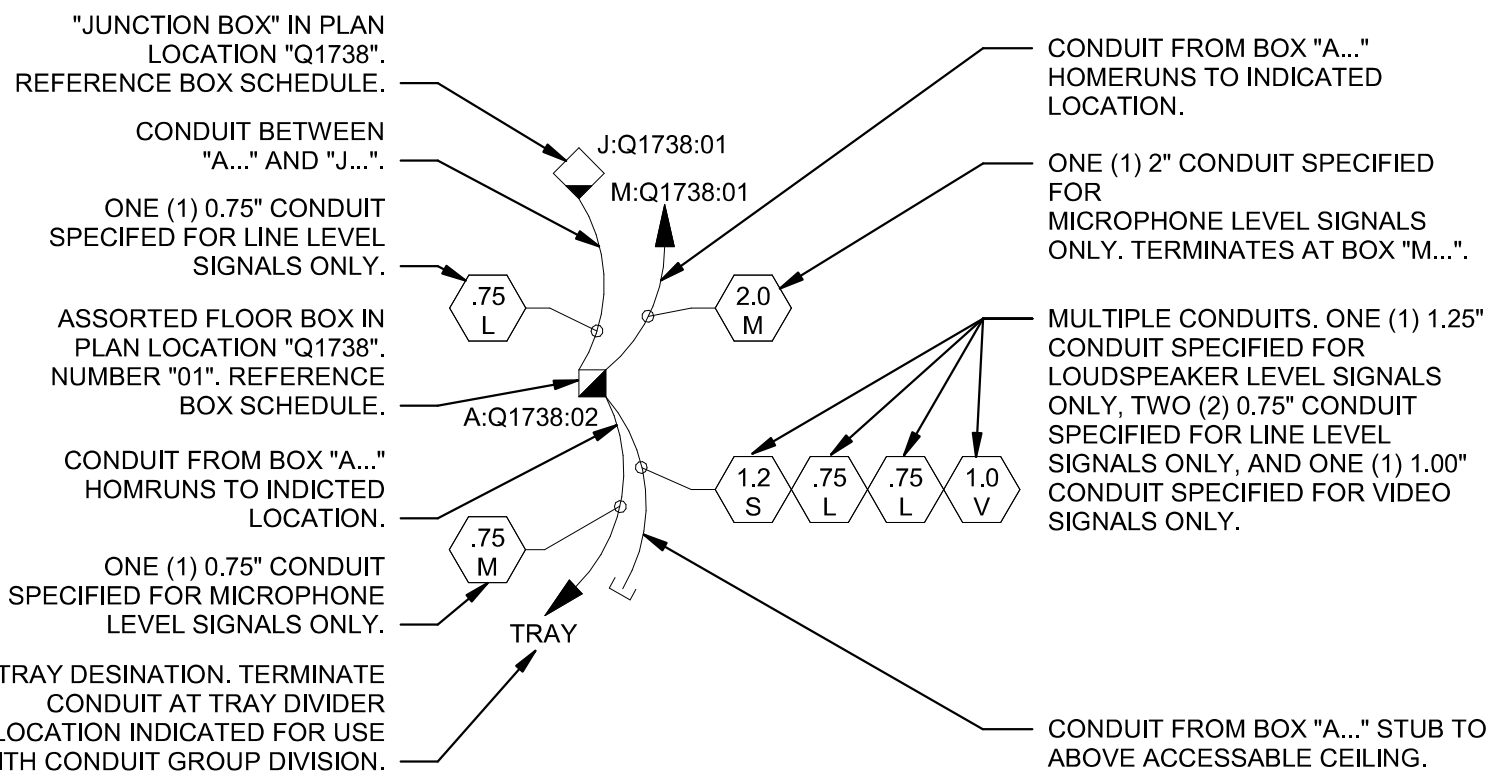
CONDUIT ROUTING AND SEPARATION

BOTH EMT							
EMT	RIGID	M	L, P	W	S	V	
M	-	ADJACENT	6"	12"	12"	12"	
L, P	-	6"	ADJACENT	12"	12"	6"	
W	-	12"	12"	ADJACENT	ADJACENT	6"	
S	-	12"	12"	ADJACENT	ADJACENT	6"	
V	-	12"	6"	6"	6"	ADJACENT	
POWER CONDUIT UNDER 60A							
POWER CONDUIT 60A	-	24"	24"	24"	24"	24"	
POWER CONDUIT 120A	-	36"	36"	36"	36"	36"	
POWER CONDUIT 240A	-	48"	48"	48"	48"	48"	
POWER CONDUIT 240A	-	RIGID	RIGID	RIGID	RIGID	RIGID	
POWER CONDUIT 400A	-	RIGID	RIGID	RIGID	RIGID	RIGID	

POWER IN RIGID							
EMT	RIGID	M	L, P	W	S	V	
M	-	ADJACENT	6"	12"	12"	12"	
L, P	-	6"	ADJACENT	12"	12"	6"	
W	-	12"	12"	ADJACENT	ADJACENT	6"	
S	-	12"	12"	ADJACENT	ADJACENT	6"	
V	-	12"	6"	6"	6"	ADJACENT	
-	POWER CONDUIT UNDER 60A	4"	4"	4"	4"	4"	
-	POWER CONDUIT 60A	8"	8"	8"	8"	8"	
-	POWER CONDUIT 120A	12"	12"	12"	12"	12"	
-	POWER CONDUIT 240A	24"	24"	24"	24"	24"	
-	POWER CONDUIT 400A	48"	48"	48"	48"	48"	

BOTH IN RIGID							
EMT	RIGID	M	L, P	W	S	V	
-	M	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	
-	L, P	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	
-	W	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	
-	S	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	
-	V	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	
-	POWER CONDUIT UNDER 60A	1"	1"	1"	1"	1"	
-	POWER CONDUIT 60A	2"	2"	2"	2"	2"	
-	POWER CONDUIT 120A	4"	4"	4"	4"	4"	
-	POWER CONDUIT 240A	8"	8"	8"	8"	8"	
-	POWER CONDUIT 400A	16"	16"	16"	16"	16"	

PLAN BOX & CONDUIT EXAMPLE

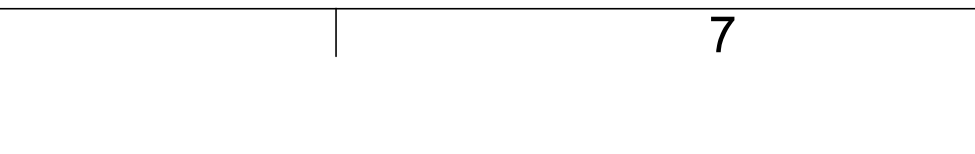
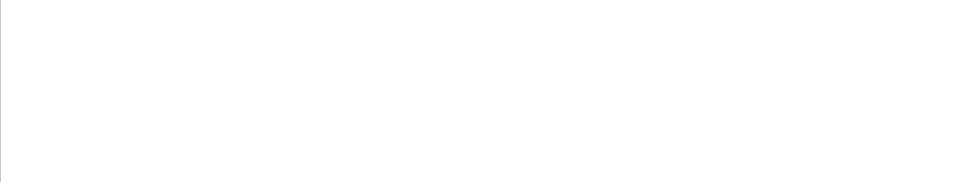
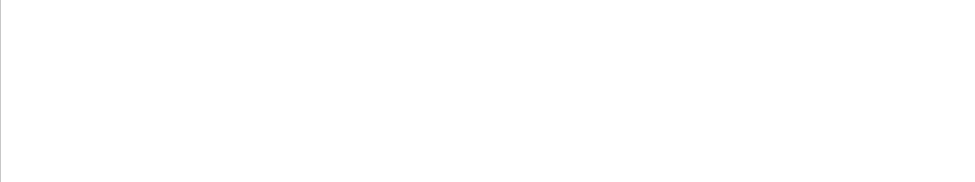
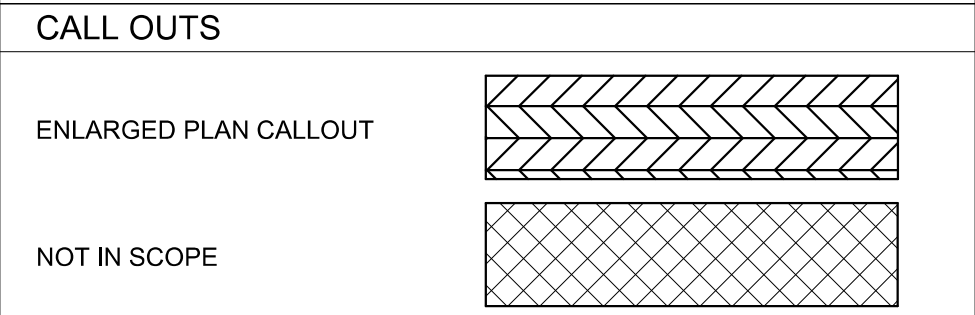
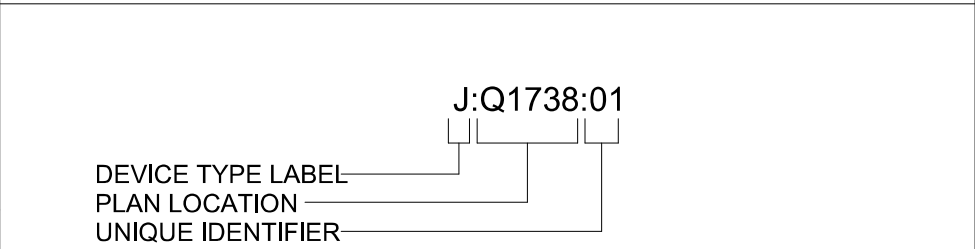


NOTE: FOR TYPICAL BOXES, REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INSTRUCTIONS. FOLLOW CONDUIT REQUIREMENTS AS LISTED IN SCHEDULE AND ANY ADDITIONAL NOTES AS INDICATED ON PLANS.

PLAN LEGEND	
BOX AND PLAN SYMBOLS	
	WALL BOX. "X" INDICATES FUNCTION OF BOX (REFER TO BOX LABEL LEGEND). "##" INDICATES BOX DESIGNATION.
	FLOOR BOX. SIMILAR TO ABOVE.
	POKE THRU. SIMILAR TO ABOVE.
	CEILING MOUNTED BOX. SIMILAR TO ABOVE.
	FLUSH MOUNTED CEILING LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER IDENTIFICATION INFORMATION.
	PENDANT MOUNTED LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER IDENTIFICATION INFORMATION.
	CEILING MOUNTED MICROPHONE. SIMILAR TO ABOVE. NO BACK BOX.
	CEILING MOUNTED CAMERA. SIMILAR TO ABOVE. NO BACK BOX.
TYPICAL BOX SYMBOLS	
	WALL BOX. "YY" INDICATES TYPE. REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INFORMATION AND AS INDICATED ON PLANS AND KEY NOTES.
	FLOOR BOX. CEILING BOX. SIMILAR TO ABOVE. "YY" INDICATES SYMBOL TYPE. "-F#" INDICATES UNIQUE IDENTIFIER.
NOTE: BLANK CELLS ON TYPICAL BOX SCHEDULE INDICATE INFORMATION PROVIDED ELSEWHERE.	
CONDUIT LEGEND	
	INDICATES ASSORTED SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES LINE LEVEL SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES MICROPHONE LEVEL SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES PRODUCTION INTERCOM LEVEL SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES LOUDSPEAKER LEVEL SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES VIDEO SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES WIRELESS/RF SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	0.75" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.
	1" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.
	1.25" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.
	1.5" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.
	2" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.
	2.5" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.
	3" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.
	CONDUIT PATH.
	CONDUIT PATH CONTINUES ON TO DESTINATION AS INDICATED.
	CONDUIT STUB TO ACCESSIBLE PORTION OF CEILING. BUSH CONDUIT ENDS.
	CONDUIT STUB TO BELOW RAISED FLOOR IF PRESENT, OTHERWISE BELOW FLOOR SLAB. BUSH CONDUIT ENDS.
	CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION
	EXPOSED CABLE PATH. NO CONDUIT.
	CABLE TRAY. SIZE AS INDICATED ON PLANS.
REFER TO BOX SCHEDULE FOR ADDITIONAL INFORMATION.	

LABEL LEGEND	
A	ASSORTED
B	BROADCAST
C	CONTROL
D	DSS SATELLITE
E	EXISTING
F	FUTURE / BY OTHERS
G	GAME CLOCK
J	JUNCTION / PULL BOX
K	CAMERA
L	LINE-LEVEL AUDIO
M	MICROPHONE-LEVEL AUDIO
P	PRODUCTION INTERCOM
R	EQUIPMENT RACK
S	LOUDSPEAKER-LEVEL AUDIO
T	TELEVISION DISTRIBUTION
V	VIDEO
W	WIRELESS / RF
DS	DIGITAL SIGNAGE
DV	DIRECT VIEW LED
FP	FLAT PANEL DISPLAY
LS	LOUDSPEAKER
PR	PROJECTOR
PS	PROJECTION SCREEN
TV	TELEVISION
VW	VIDEO WALL

LABEL STANDARD



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REVISIONS:
Description Date

10/19/2022

PROJECT NO: 2150001291
DATE: 10.19.2022
DRAWN BY: J.ROSE
CHK'D BY: M.MAURER

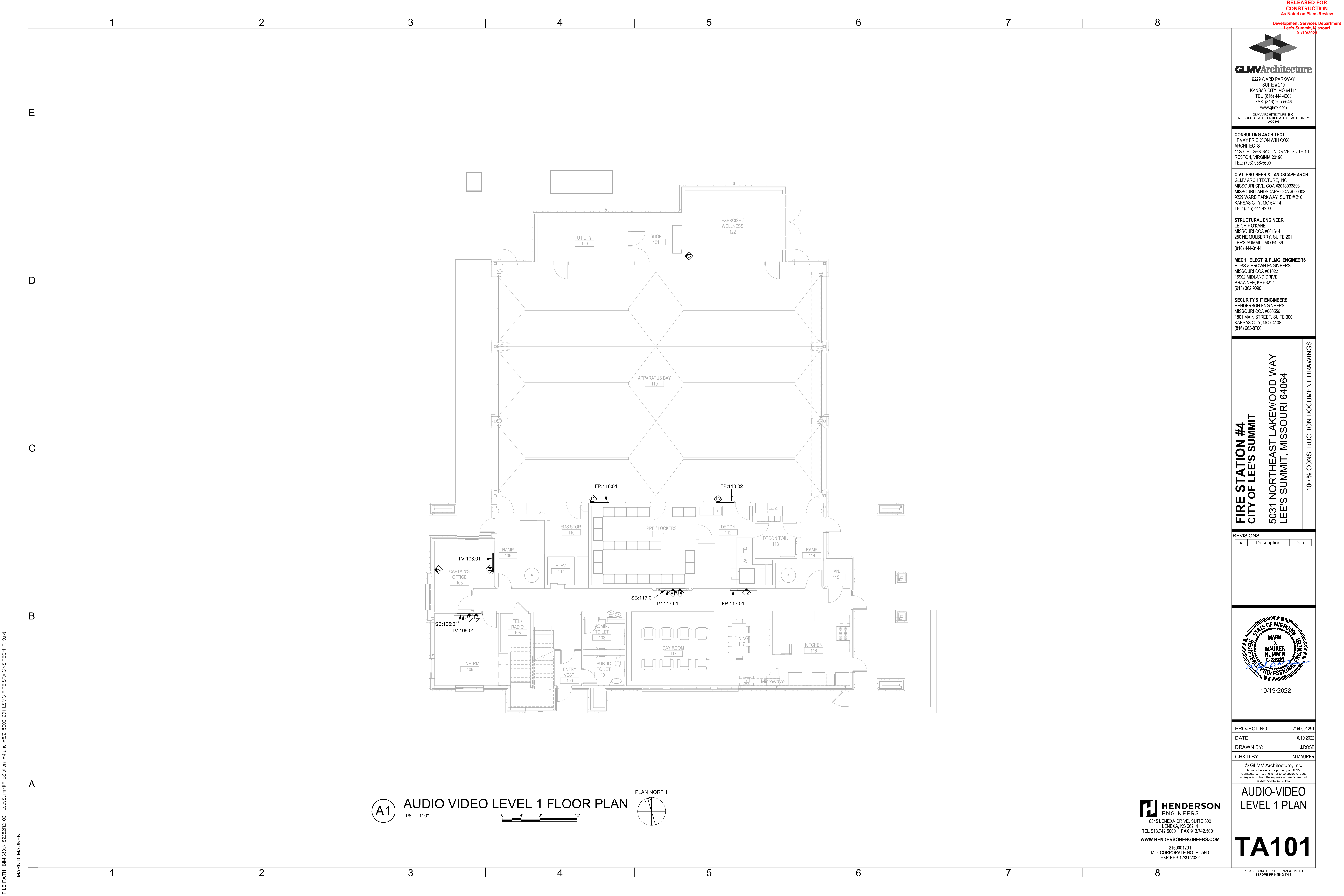
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AUDIO-VIDEO
GENERAL NOTES

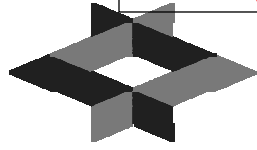
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A1 AUDIO VIDEO LEVEL 1 FLOOR PLAN
1/8" = 1'-0"
0 4' 8' 16'
PLAN NORTH

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CHK'D BY: M.MAURER

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AUDIO-VIDEO
LEVEL 1 PLAN

TA101

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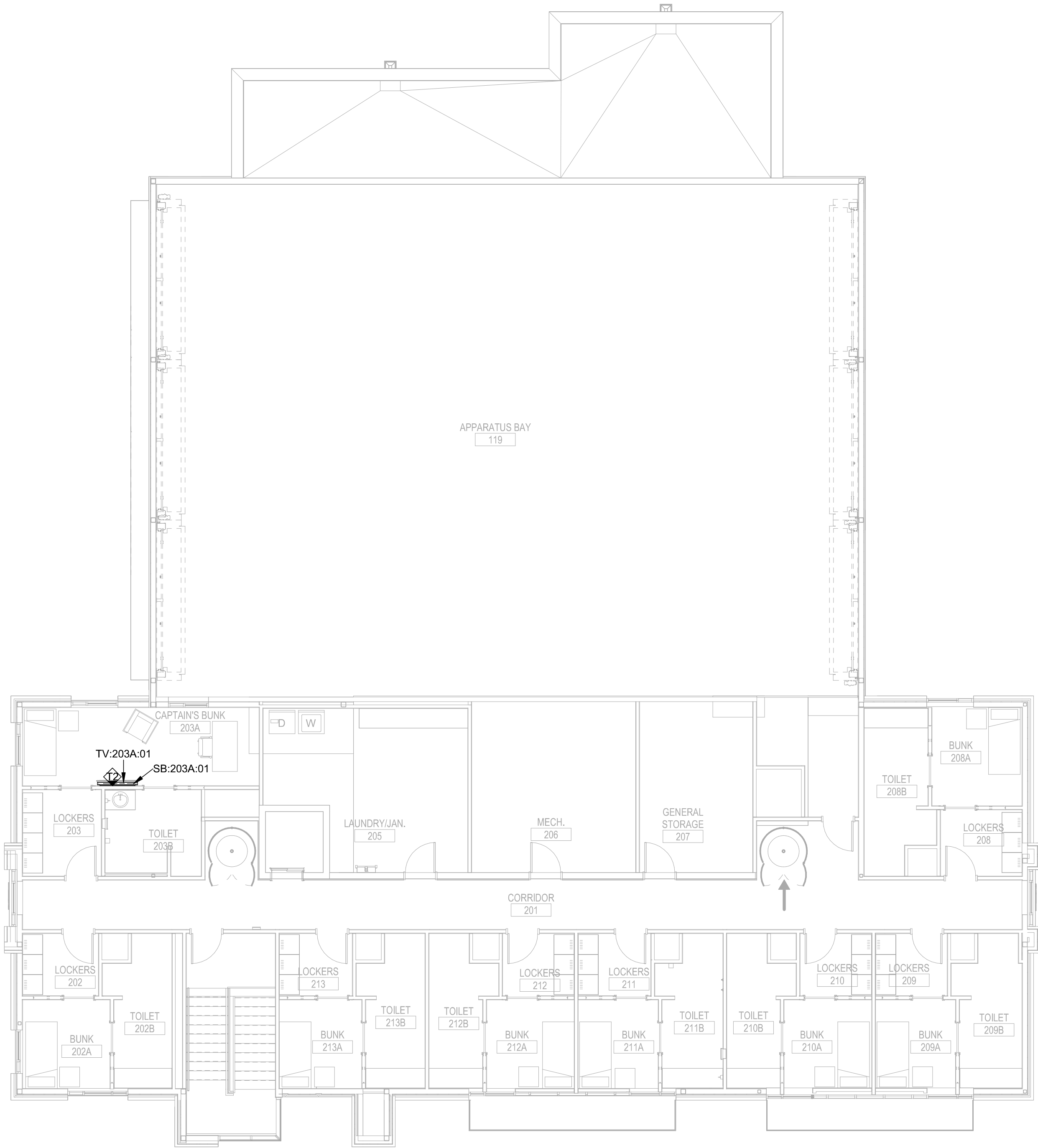
E

D

C

B

A



A1 AUDIO VIDEO LEVEL 2 FLOOR PLAN
1/8" = 1'-0"

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#	Description	Date
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AUDIO-VIDEO
LEVEL 2 PLAN

TA102

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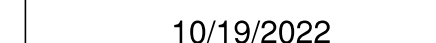
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DATE: 10.19.2005

DRAWN BY:	LBOS
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CHK'D BY:	M. MAURE
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AUDIO-VIDEO
LEVEL 1 RCP

TA201

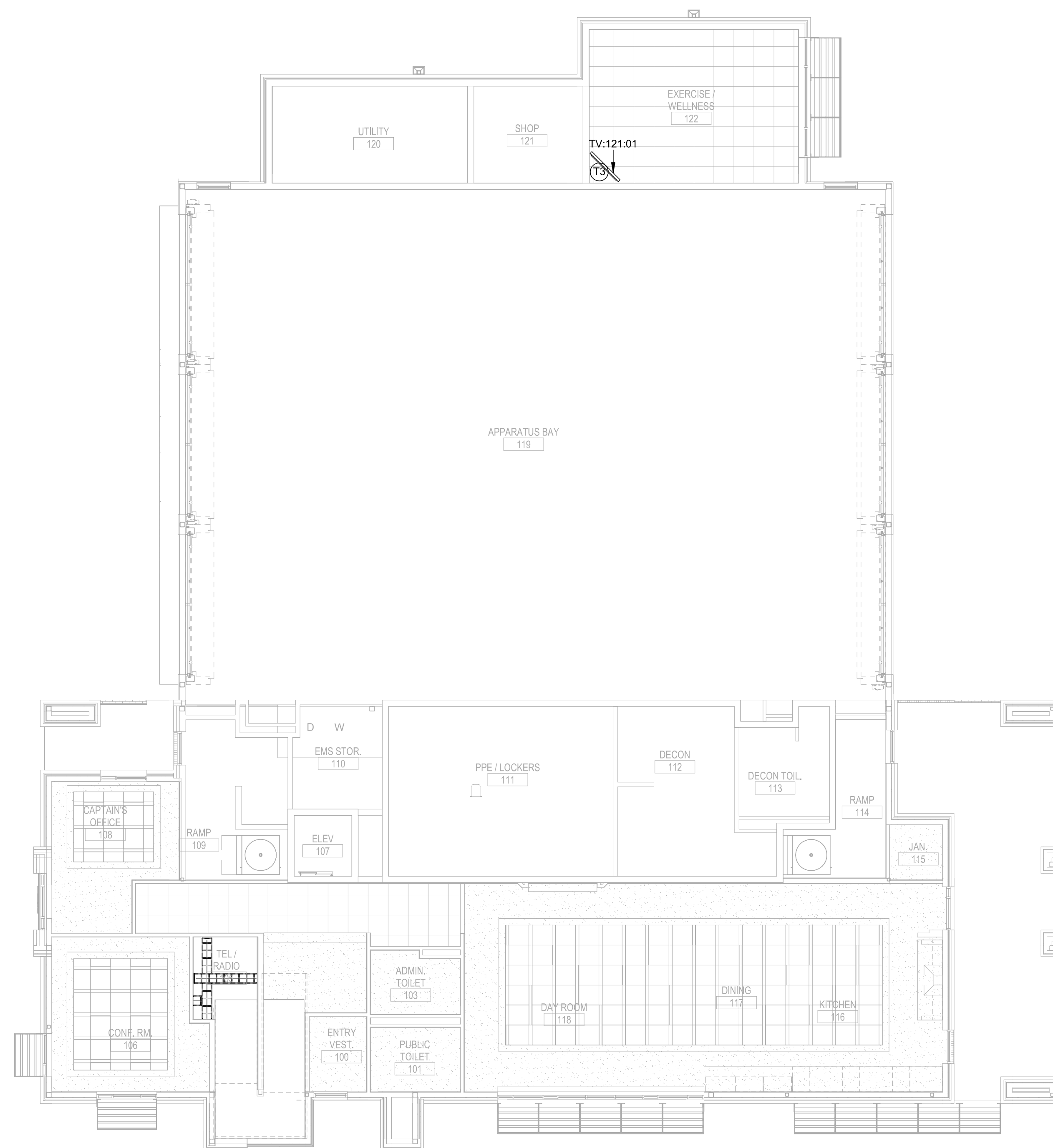
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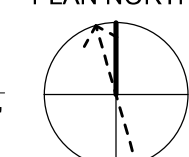
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A1 AUDIO VIDEO LEVEL 1 RCP
 1/8" = 1'-0" 0 4' 8'

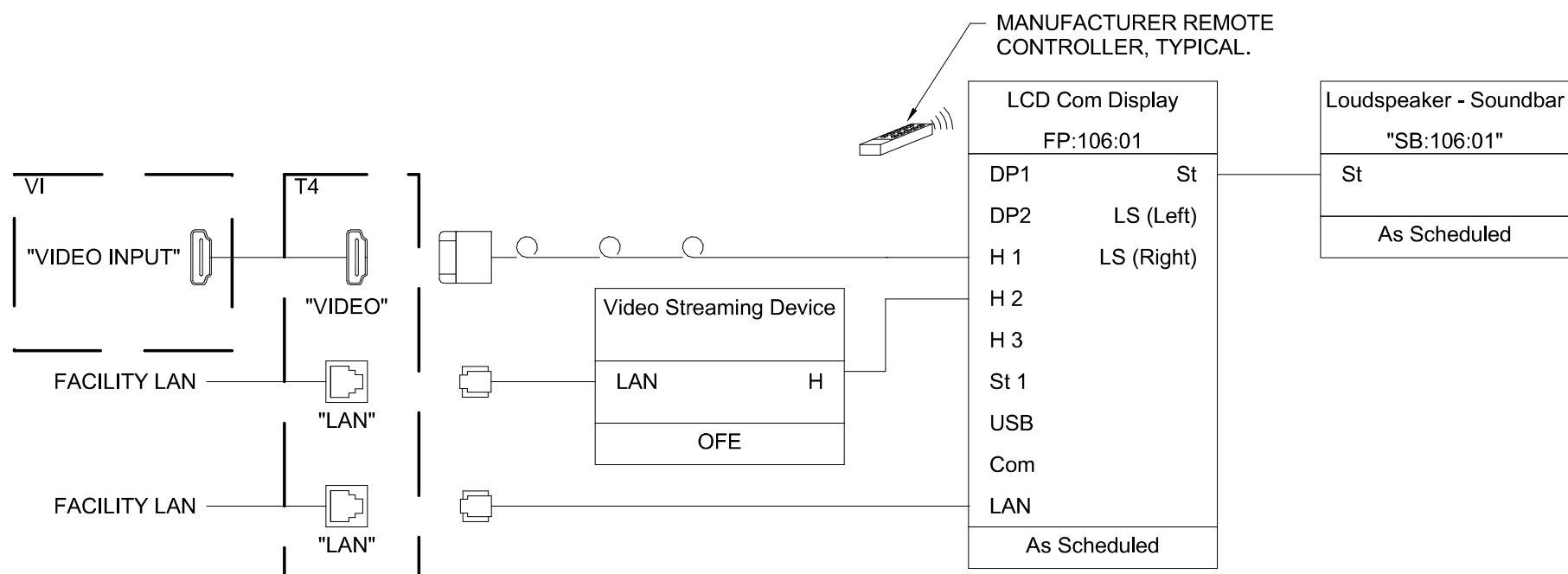
PLAN NORTH



MARK D. MAURER

AUDIO-VIDEO FLAT PANEL DISPLAY SCHEDULE									
ID	DISPLAY PROPERTIES			MOUNTING REQUIREMENTS			DISPLAY RESPONSIBILITY		NOTES
	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT AFF. (CENTER OF DISPLAY)	TYPE	FURNISHED BY	INSTALLED BY	PROVIDED BY	
FP:117:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING ADA	CONTRACTOR	CONTRACTOR	OWNER	
FP:118:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER	
FP:118:02	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER	
TV:106:01	LCD COMM DISPLAY - 2160/75	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER	
TV:108:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER	
TV:117:01	LCD COMM DISPLAY - 2160/75	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING ADA	CONTRACTOR	CONTRACTOR	OWNER	
TV:121:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	102"	CEILING - POLE	CONTRACTOR	CONTRACTOR	OWNER	
TV:203A:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER	

SB:106:01	SB 8 4x2 H SP	JBL	PSB-1	8	-	SURFACE	38"	0.00°	0.00°	0.00°	No	No
SB:117:01	SB 8 4x2 H SP	JBL	PSB-1	8	-	SURFACE	38"	0.00°	0.00°	0.00°	No	No
SB:203A:01	SB 8 4x2 H SP	JBL	PSB-1	8	-	SURFACE	44"	0.00°	0.00°	0.00°	No	No

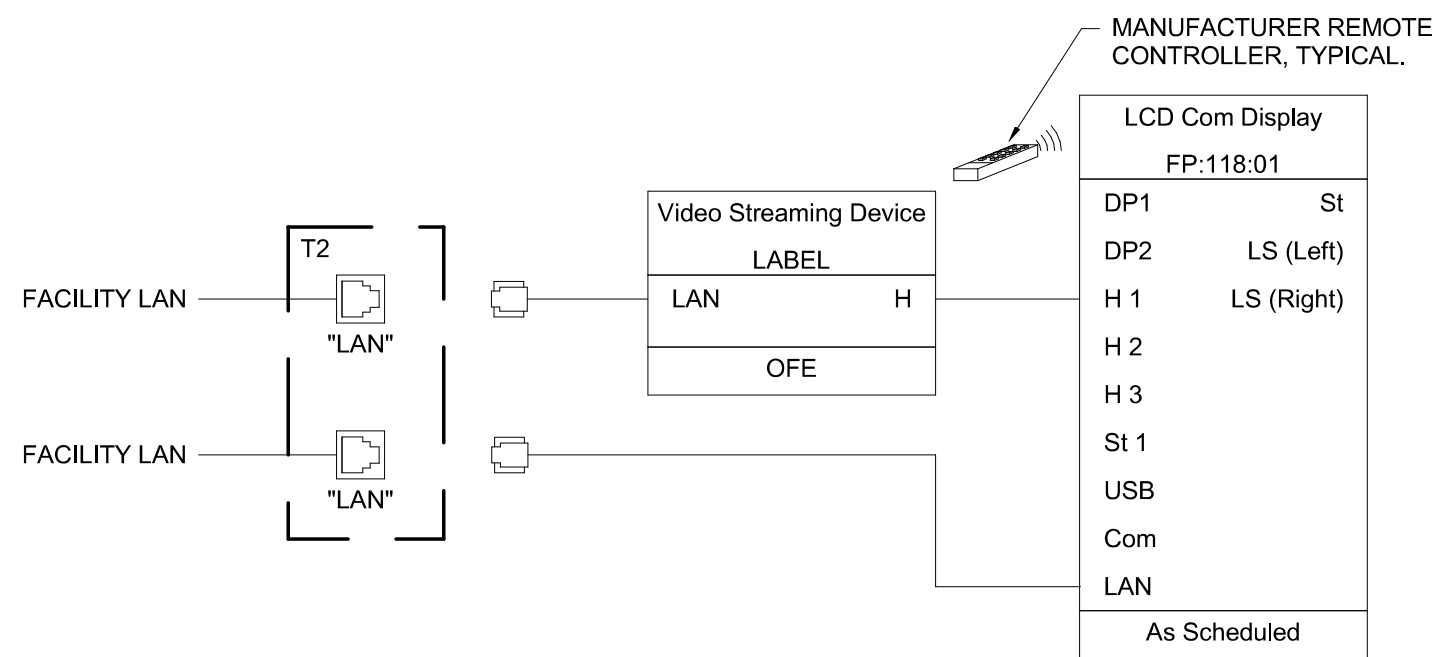


NOT TO SCALE

NOTES:

1. SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:

1.1 EXERCISE / WELLNESS 122 (FP:122:01)



NOT TO SCALE

NOTES:

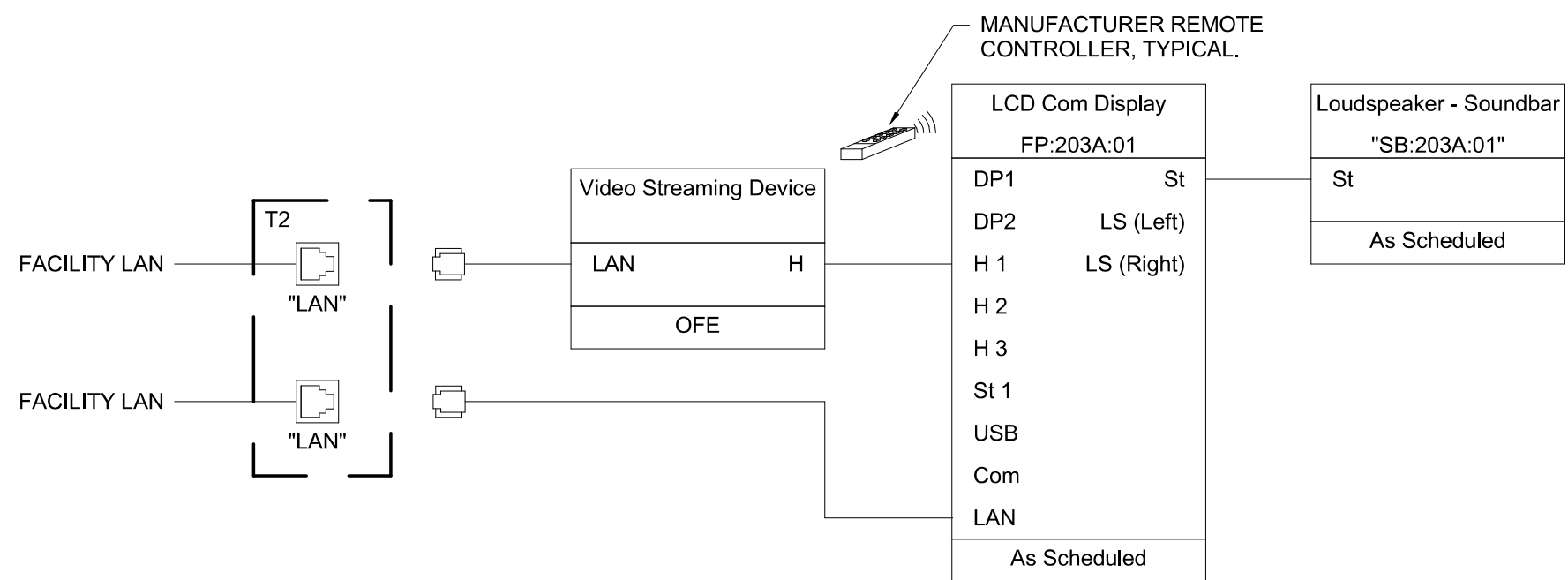
1. SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:
 - 1.1 APPARATUS BAY 118 (FP:118:02)
 - 1.2 DINNING 117 (FP:117:01)

NOT TO SCALE

NOTES:

1. SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:

1.1 DAY ROOM 117



NOT TO SCALE

FILE PATH: B:\360\102252\1021001_LeesSummitFireStation_#4 and #5\2150001291_LSMO FIRE STATIONS TECH_F19.mxd
MARK D. MAURER

E

D

C

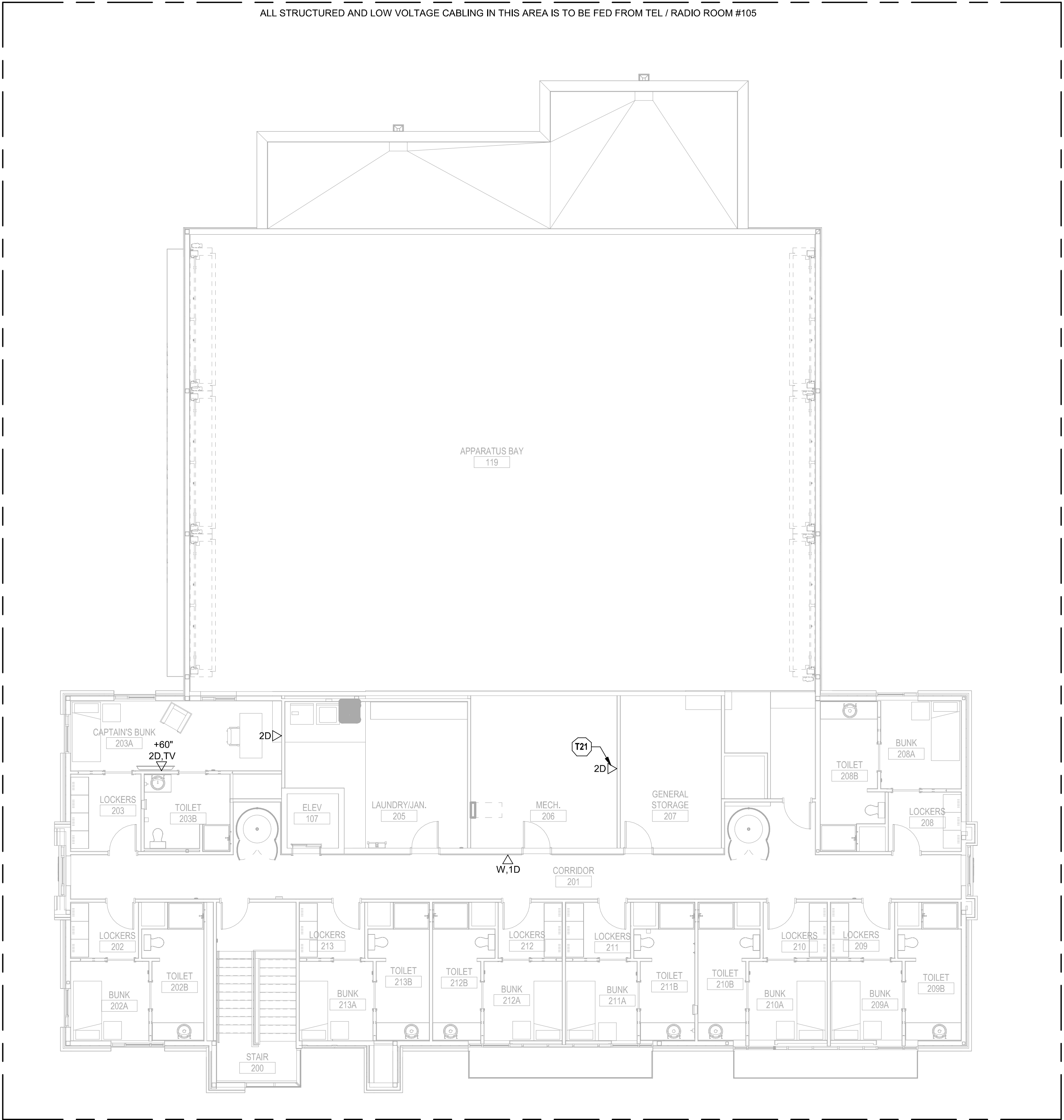
B

A

12345678

12345678

○ **TECHNOLOGY PLAN NOTES:**
T21 PROVIDE DATA OUTLET FOR BMS CONTROL PANEL. REFER TO MECHANICAL SHEETS FOR FURTHER INFORMATION. COORDINATE WITH MECHANICAL CONTRACTOR ON EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.



A1 TECHNOLOGY LEVEL 2 FLOOR PLAN
1/8" = 1'-0"
0 4' 8' 16'
PLAN NORTH

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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:
Description Date

10/19/2022

PROJECT NO: 2150001291
DATE: 10.19.2022
DRAWN BY: J.CORONADO
CHK'D BY: M.MAURER

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TECHNOLOGY LEVEL 2 PLAN

TN102

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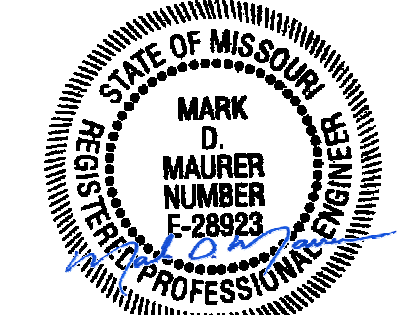
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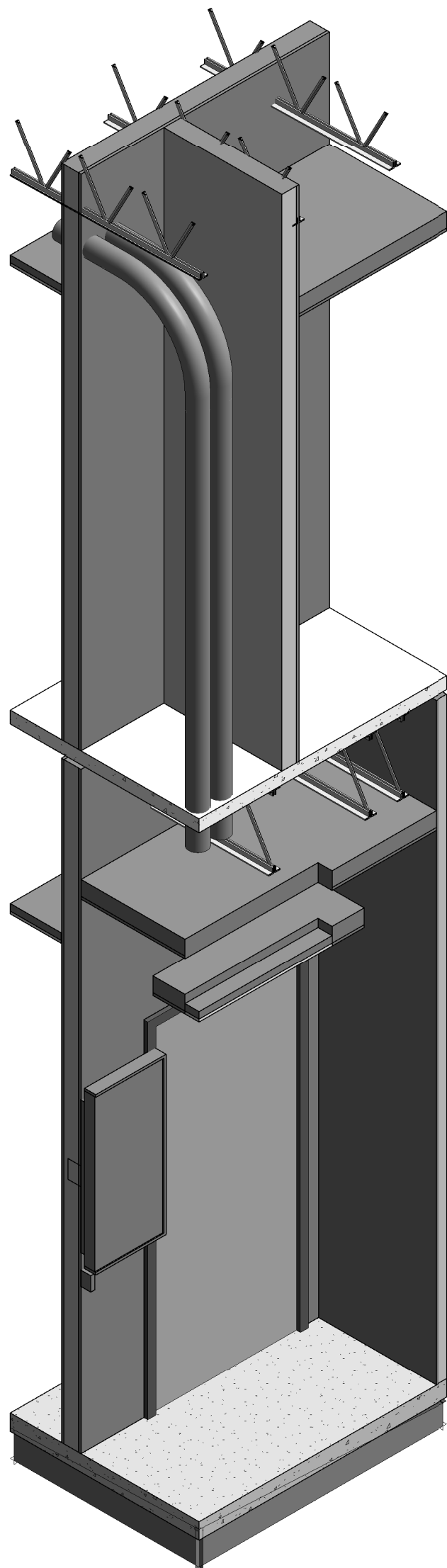
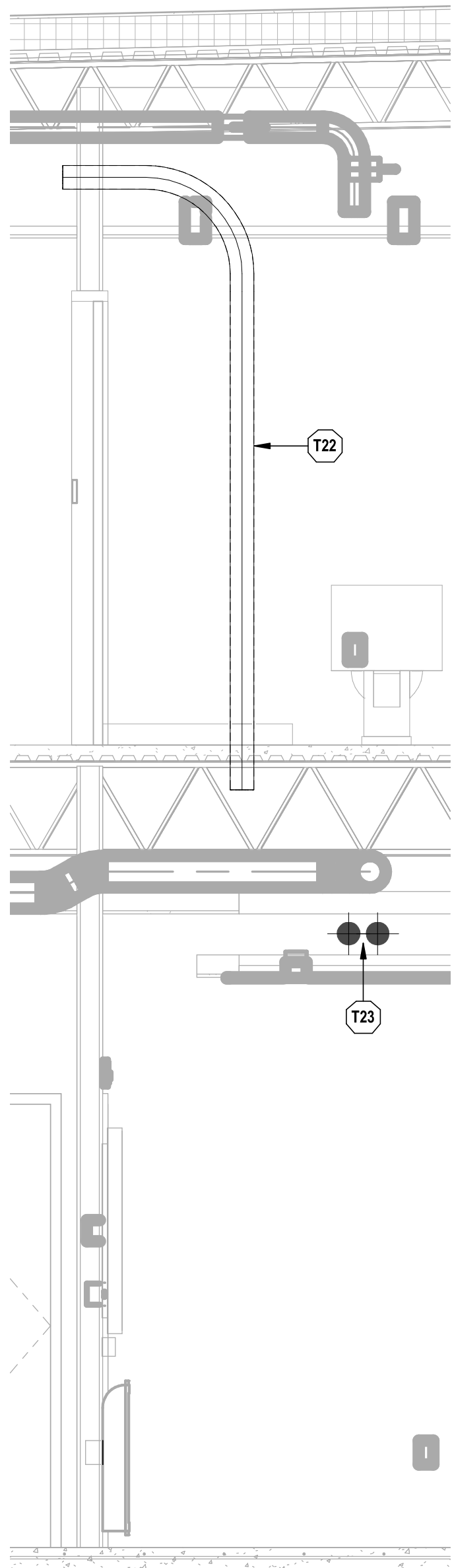
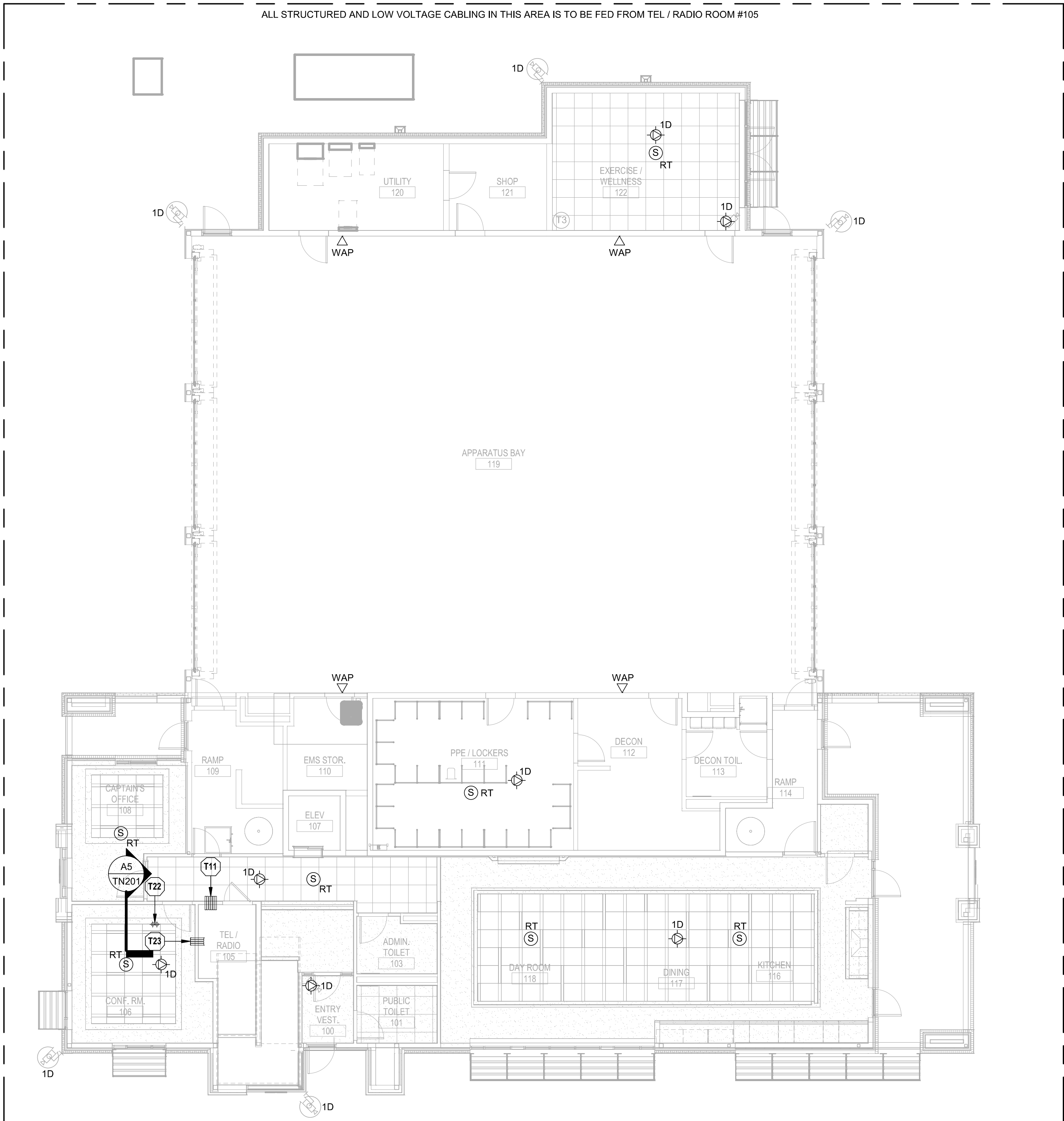
TECHNOLOGY
LEVEL 1 RCP

TN201

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TECHNOLOGY PLAN NOTES:

- T11 PROVIDE (3) 4" FIRE-RATED CONDUITS FOR HORIZONTAL CABLING.
- T22 PROVIDE (2) 4" FIRE-RATED CONDUITS FOR 2ND FLOOR HORIZONTAL CABLING ORIGINATING FROM TEL / RADIO ROOM #105.
- T23 PROVIDE (2) 4" FIRE-RATED CONDUIT SLEEVES FOR 2ND FLOOR HORIZONTAL CABLING.



A5 LEVEL 2 CONDUIT PATHWAY
1/2" = 1'-0"

A7 LEVEL 2 CONDUIT PATHWAY
0 4' 8' 16'

A1 TECHNOLOGY LEVEL 1 RCP
1/8" = 1'-0"

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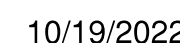
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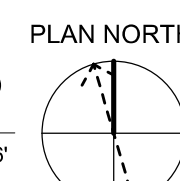
T1 CONTRACTOR TO PROVIDE AN ADDITIONAL 30 DATA CABLES AND COIL UP ABOVE CEILING FOR FUTURE TERMINATION BY THE CITY. PROVIDE ENOUGH SLACK TO REACH THE FURTHEST POINT WITHIN EACH ROOM SPECIFICALLY FURTHEST POINT OF APPARATUS BAY. CABLES ARE TO BE ROUTED UP THE CHASE NEXT TO THE STAIRWELL INTO ACCESSIBLE CEILING.

T22 PROVIDE (2) 4" FIRE-RATED CONDUITS FOR 2ND FLOOR HORIZONTAL CABLING ORIGINATING FROM TEL / RADIO ROOM #105.



ALL STRUCTURED AND LOW VOLTAGE CABLING IN THIS AREA IS TO BE FED FROM TEL / RADIO ROOM #105

A1 **TECHNOLOGY LEVEL 2 RCP**
1/8" = 1'-0" 0 4' 8' 1


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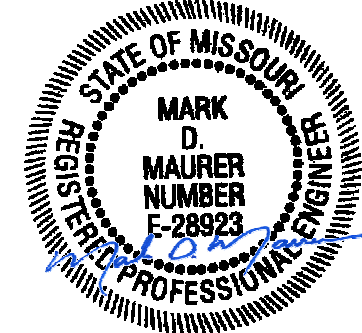
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CHK'D BY: M.MAURER

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**ENLARGED
PLANS**

TN400

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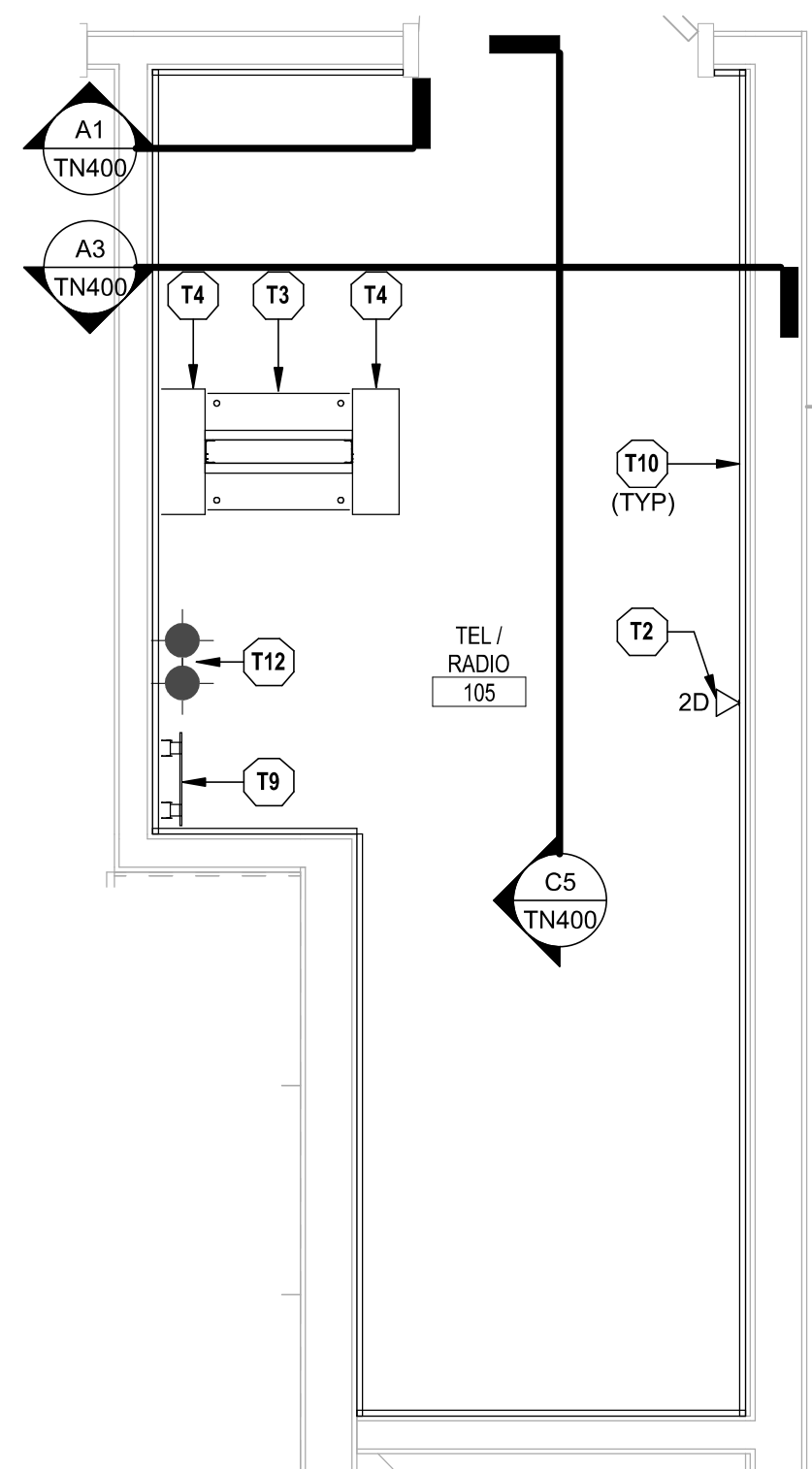
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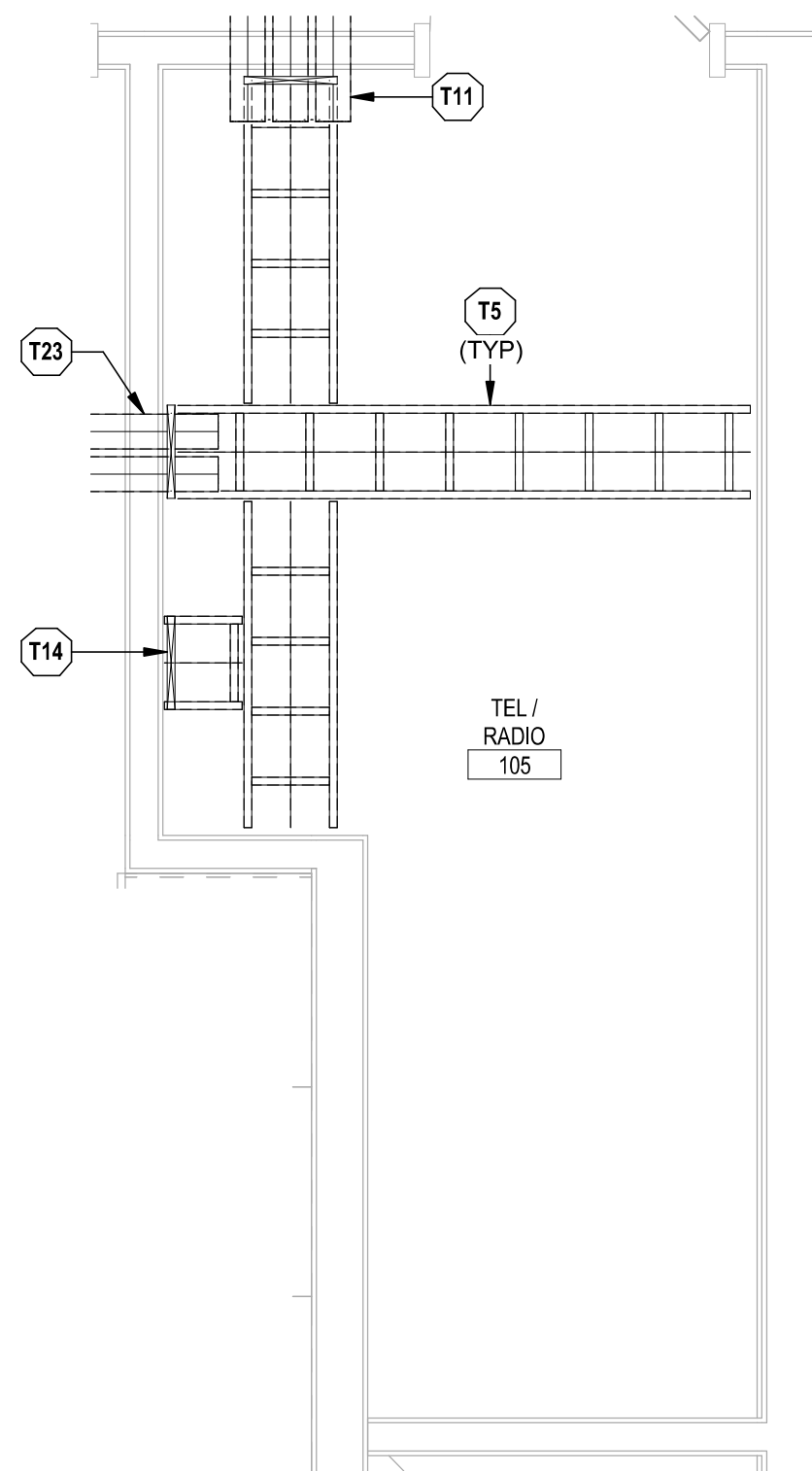
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MO. CORPORATE NO. E-556D
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TECHNOLOGY PLAN NOTES:

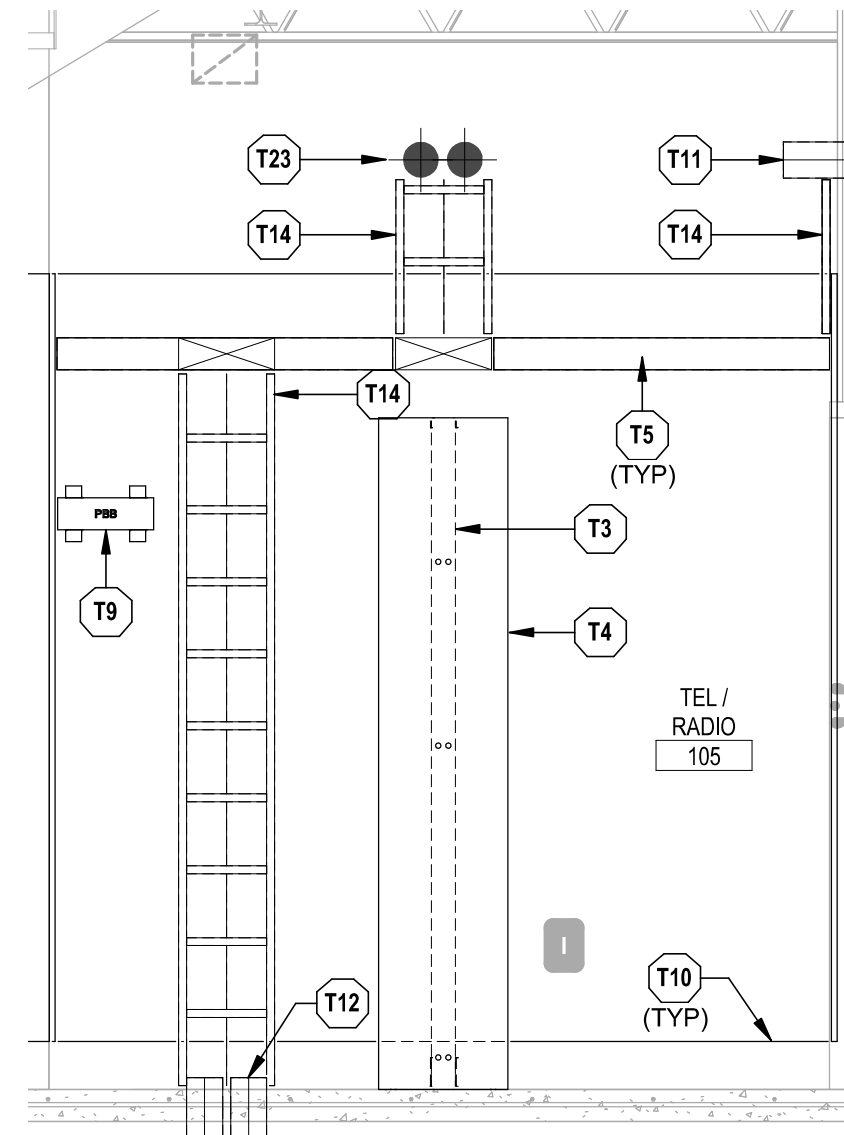
- T2 PROVIDE DATA OUTLET FOR SECURITY SYSTEM. REFER TO SECURITY SHEETS FOR ADDITIONAL INFORMATION. FIELD VERIFY EXACT LOCATION WITH SECURITY PROVIDER.
- T3 PROVIDE TWO-POST FLOOR RACK. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T4 PROVIDE VERTICAL CABLE MANAGEMENT. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T5 PROVIDE 12" WIDE LADDER RACK WITH 9" RUNG SPACING. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T9 PROVIDE TELECOMMUNICATIONS PRIMARY BUS BAR (PBB). REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T10 PROVIDE TELECOMMUNICATIONS BACKBOARD, GRADE A/C 3/4" THICK FIRE RATED PLYWOOD BACKBOARDS DOUBLE COATED IN UL 723 CLASSIFIED FIRE RETARDANT LOW GLOSS WHITE PAINT. THE "A" SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE "C" SIDE PLACED AGAINST THE BUILDING STRUCTURE. PLYWOOD SHALL BE PAINTED PRIOR TO INSTALLATION OF EQUIPMENT. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T11 PROVIDE (3) 4" FIRE-RATED CONDUITS FOR HORIZONTAL CABLING.
- T12 PROVIDE (2) 4" SERVICE ENTRANCE CONDUITS FROM ENTRANCE FACILITY TO 5'-0" OUTSIDE OF BUILDING. PROVIDE PULL STRING. REFER TO CIVIL SITE PLANS AND DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T14 PROVIDE 12" WIDE VERTICAL LADDER RACK WITH 9" RUNG SPACING. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T15 PROVIDE OPTICAL FIBER ENCLOSURE, PANELS AND MODULES TO PROVIDE COMPLETE TERMINATION OF OPTICAL FIBER CABLES FOR A FULLY-FUNCTIONING SYSTEM. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T16 PROVIDE PATCH PANEL FOR HORIZONTAL CABLING. PROVIDE APPROPRIATE QUANTITY TO SUPPORT DEVICES SERVED FROM COMM ROOM PLUS SPARES AS NOTED IN SPECIFICATIONS. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T17 PROVIDE HORIZONTAL CABLE MANAGEMENT. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T18 OWNER PROVIDED NETWORK SWITCH.
- T19 PROVIDE 6" RUNWAY EXTENSION KIT AND A 3" TOP PLATE AT EACH EQUIPMENT RACK. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T23 PROVIDE (2) 4" FIRE-RATED CONDUIT SLEEVES FOR 2ND FLOOR HORIZONTAL CABLING.



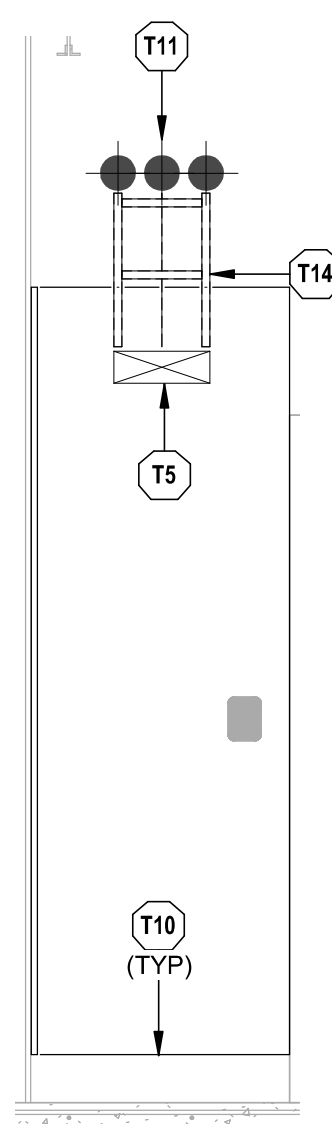
C1 TEL/RADIO #105 - ENLARGED PLAN
1/2" = 1'-0"



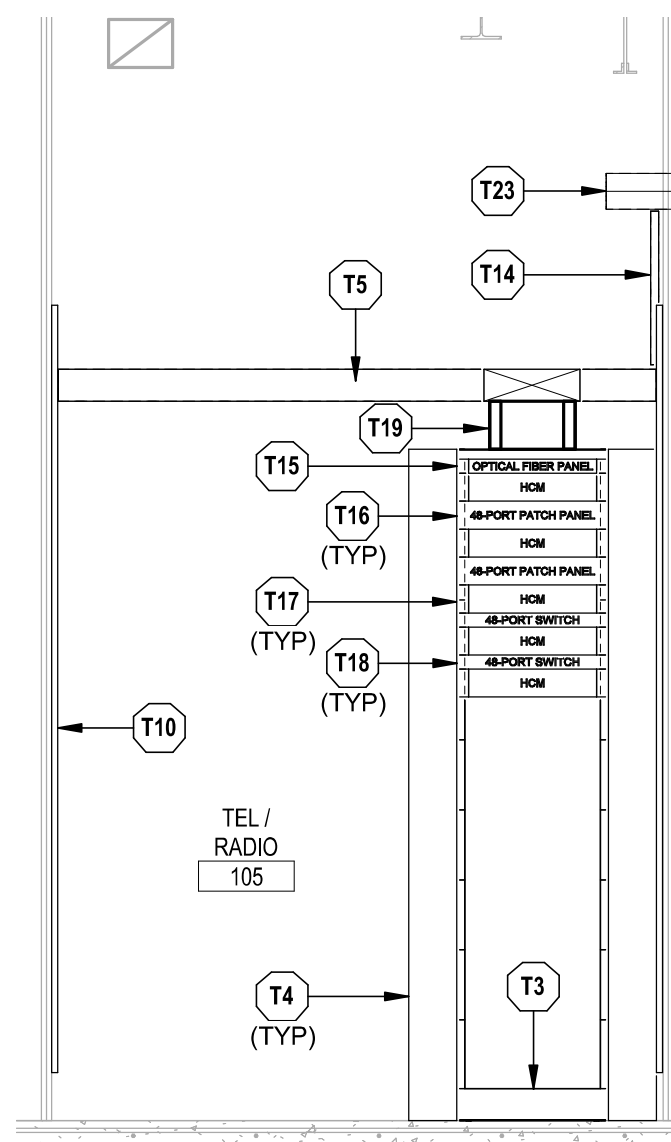
C3 TEL/RADIO #105 - PATHWAY PLAN
1/2" = 1'-0"



C5 TEL / RADIO 105 - PLAN WEST ELEVATION
1/2" = 1'-0"

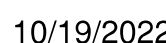


A1 TEL / RADIO 105 - PLAN NORTH ELEVATION
1/2" = 1'-0"



A3 TELE / RADIO 105 - RACK ELEVATION
1/2" = 1'-0"

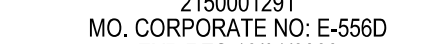
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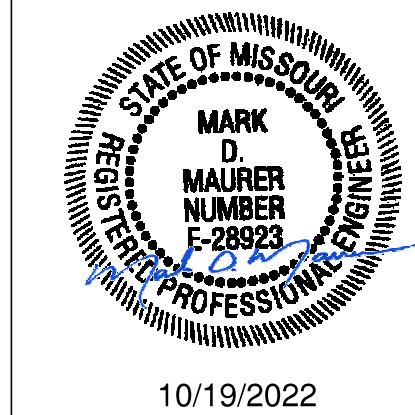
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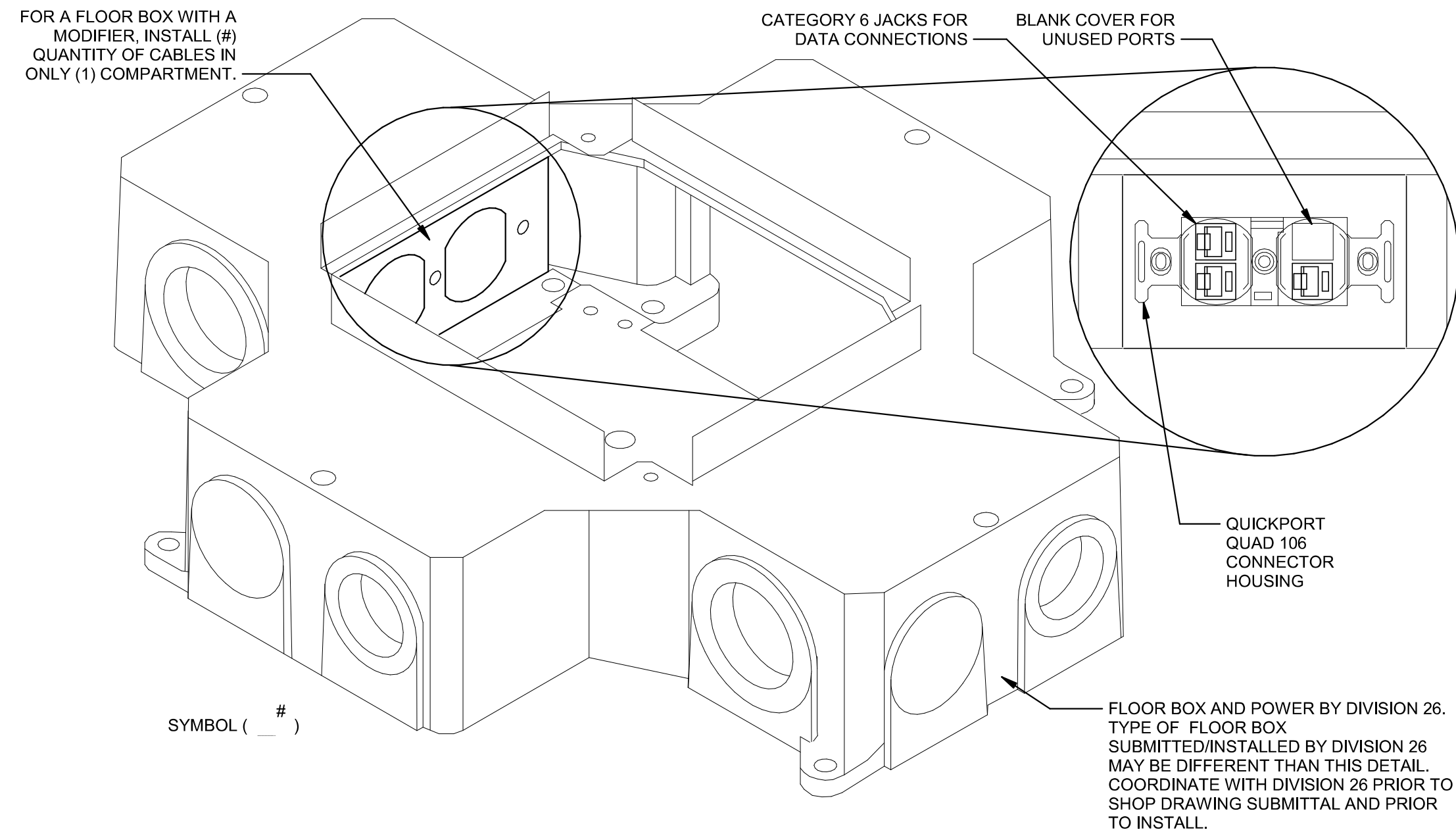
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CHK'D BY: M.MAURER

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**TECHNOLOGY
DETAILS**

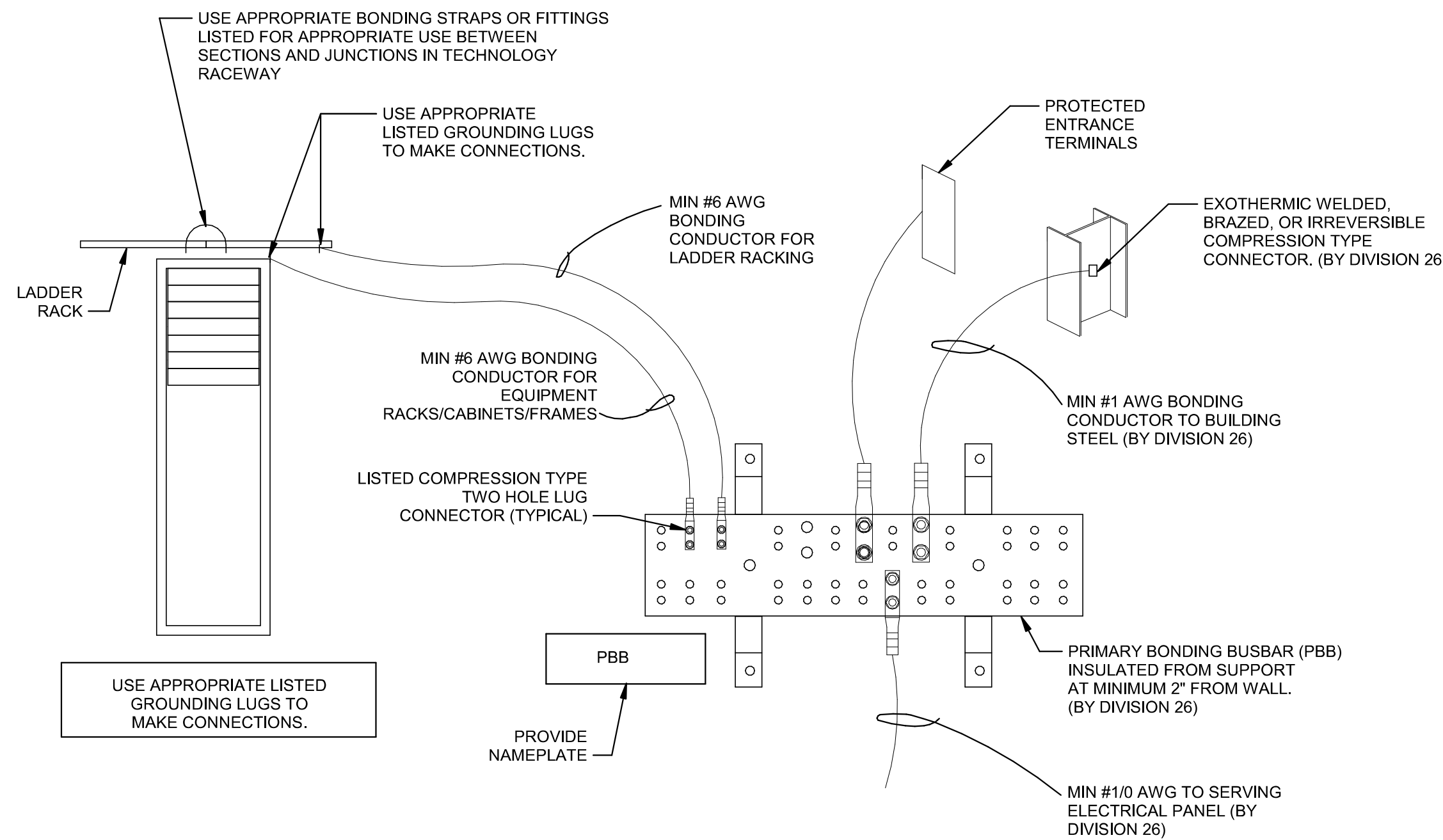
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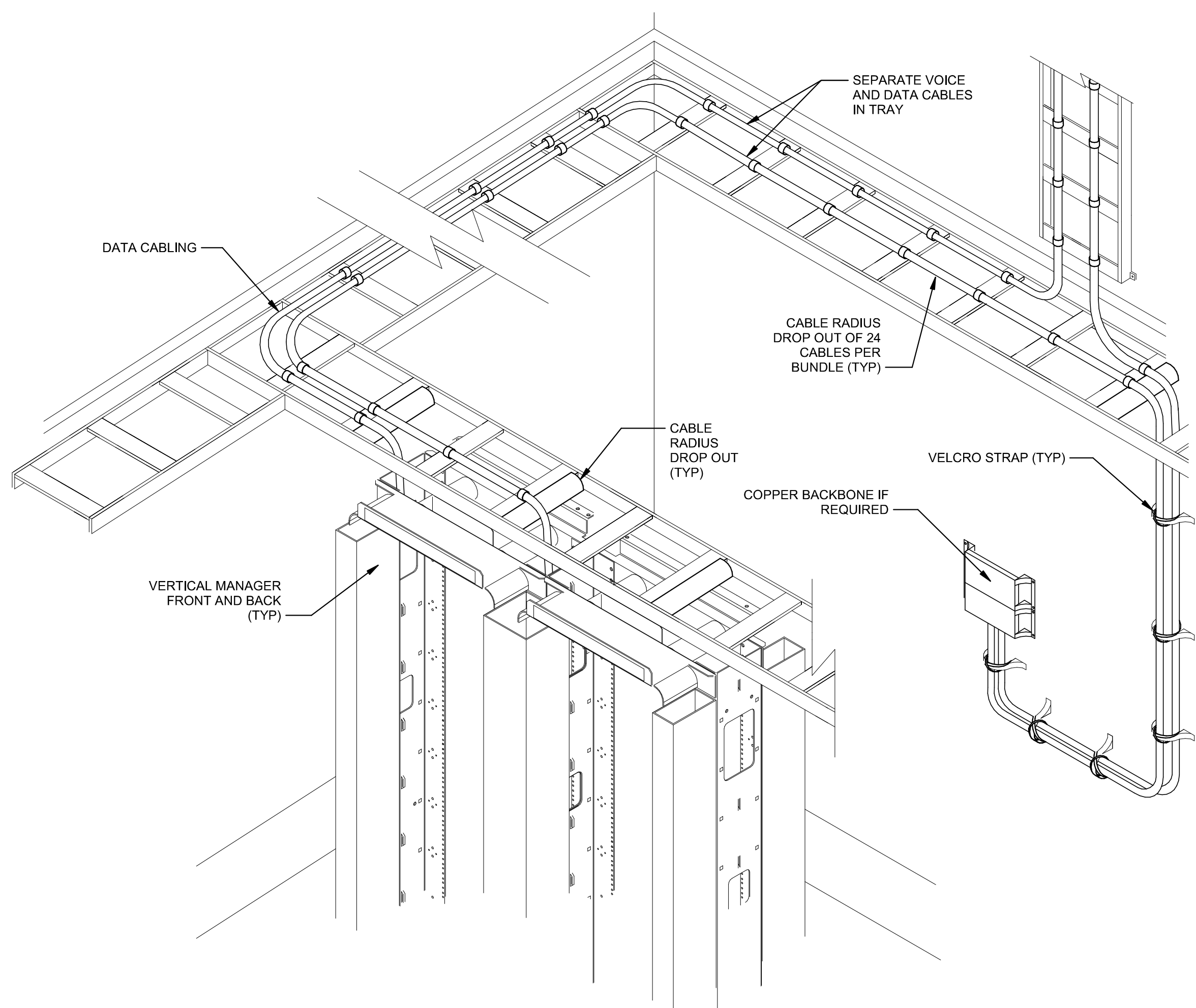
D1 FLOOR BOX

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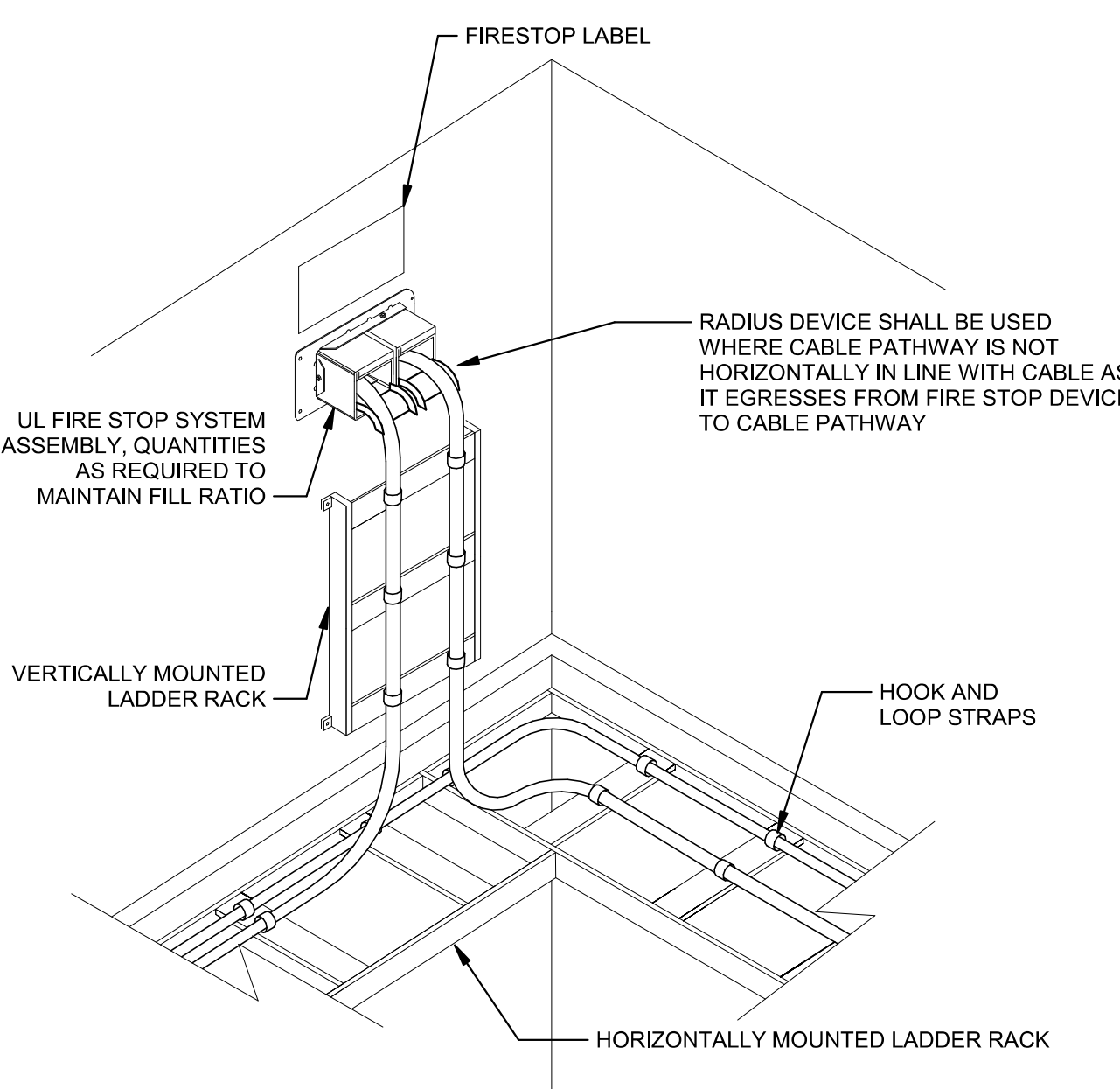
D5 PBB CONNECTIONS DIAGRAM

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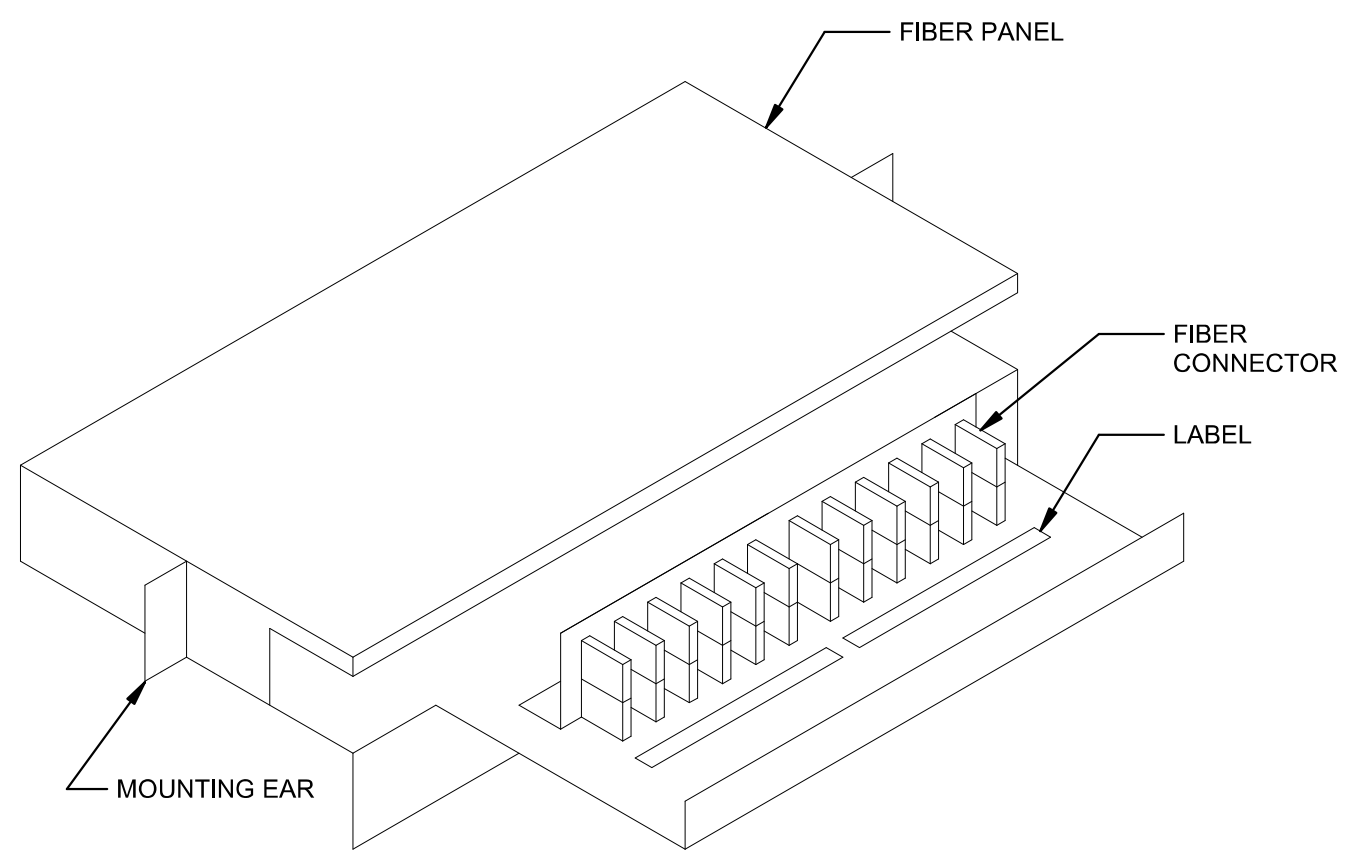
A1 TELECOM ROOM TRAY ALIGNMENT, BEND RADIUS TREATMENT

NOT TO SCALE



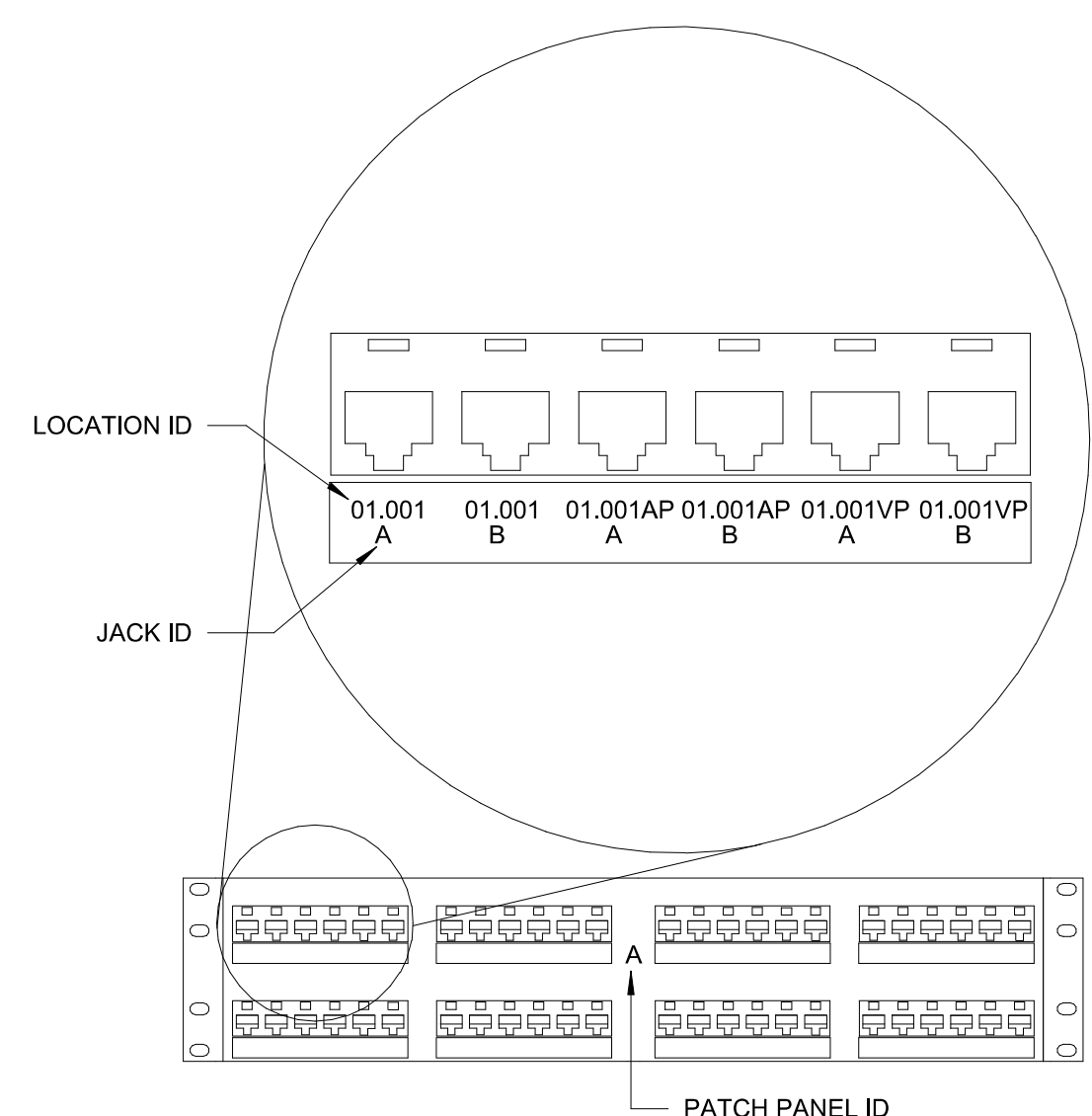
A4 FIRE STOP SYSTEM

NOT TO SCALE



1 FIBER PANEL

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A7 TYPICAL PATCH PANEL LABELING DETAIL

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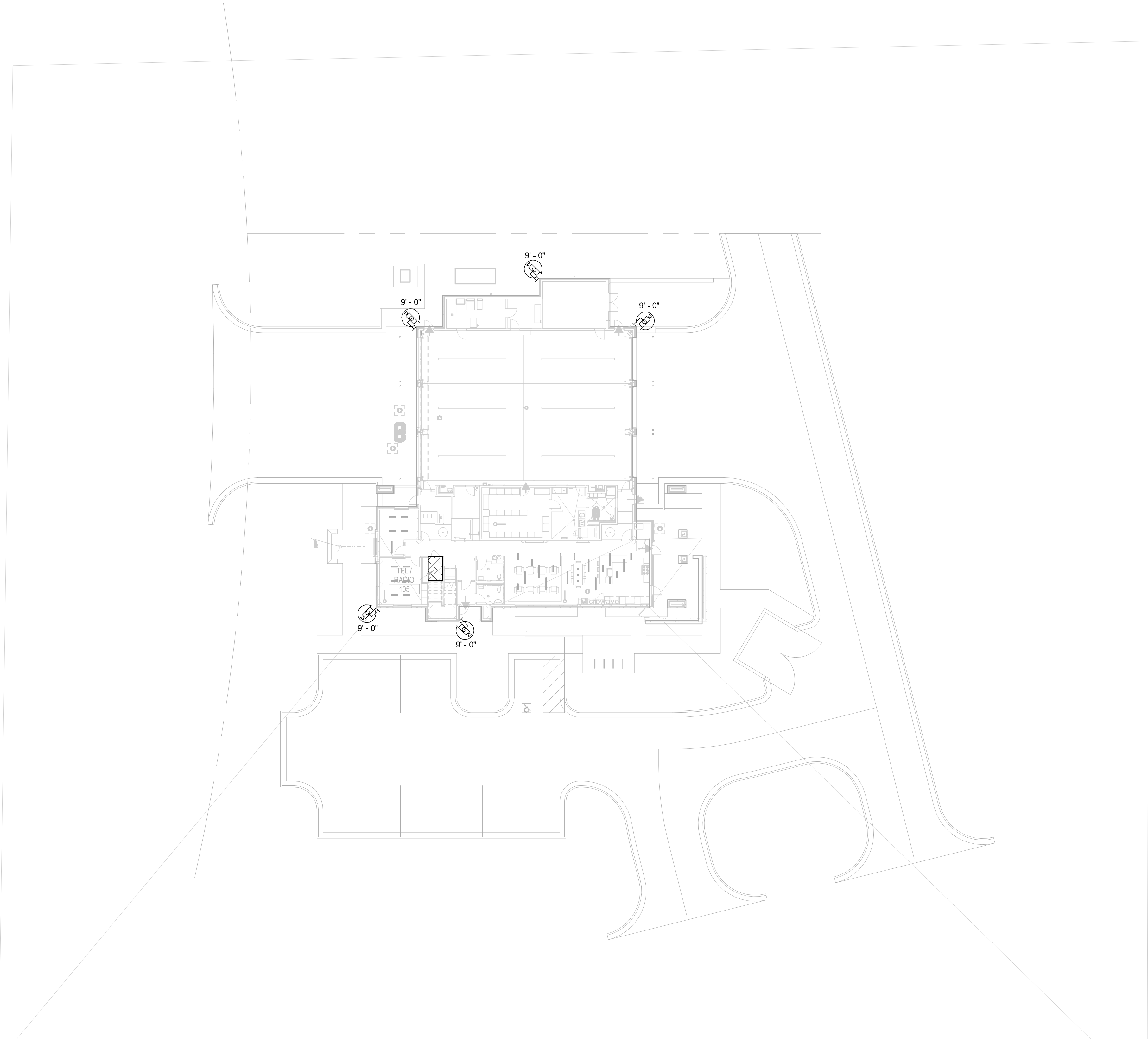
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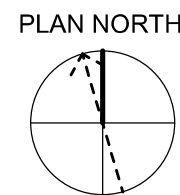


1

SECURITY SITE PLAN

1" = 20'-0"

0 4' 8' 16'



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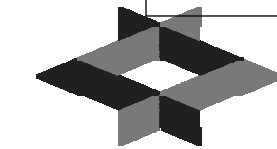
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SECURITY SITE PLAN

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Lee's Summit, Missouri
01/10/2023



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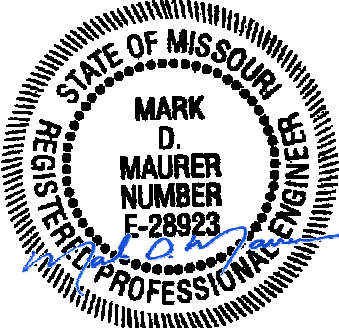
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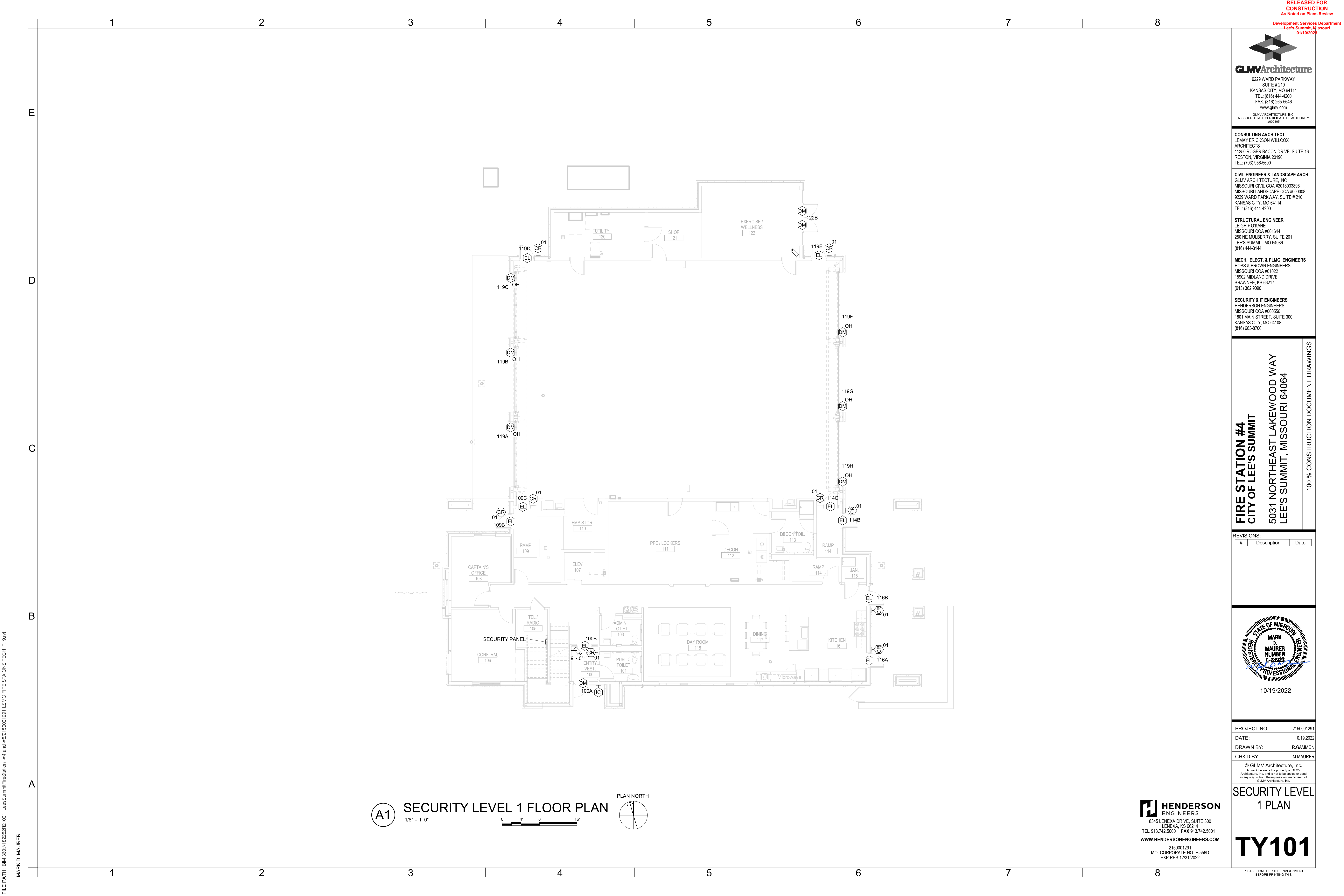
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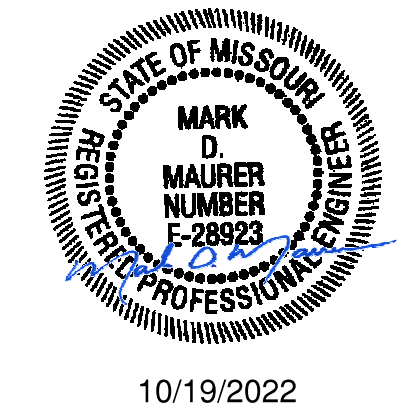
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HENDERSON ENGINEERS
MISSOURI COA #000556
1801 MAIN STREET, SUITE 300
KANSAS CITY, MO 64108
(816) 663-8700

FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

#	Description	Date
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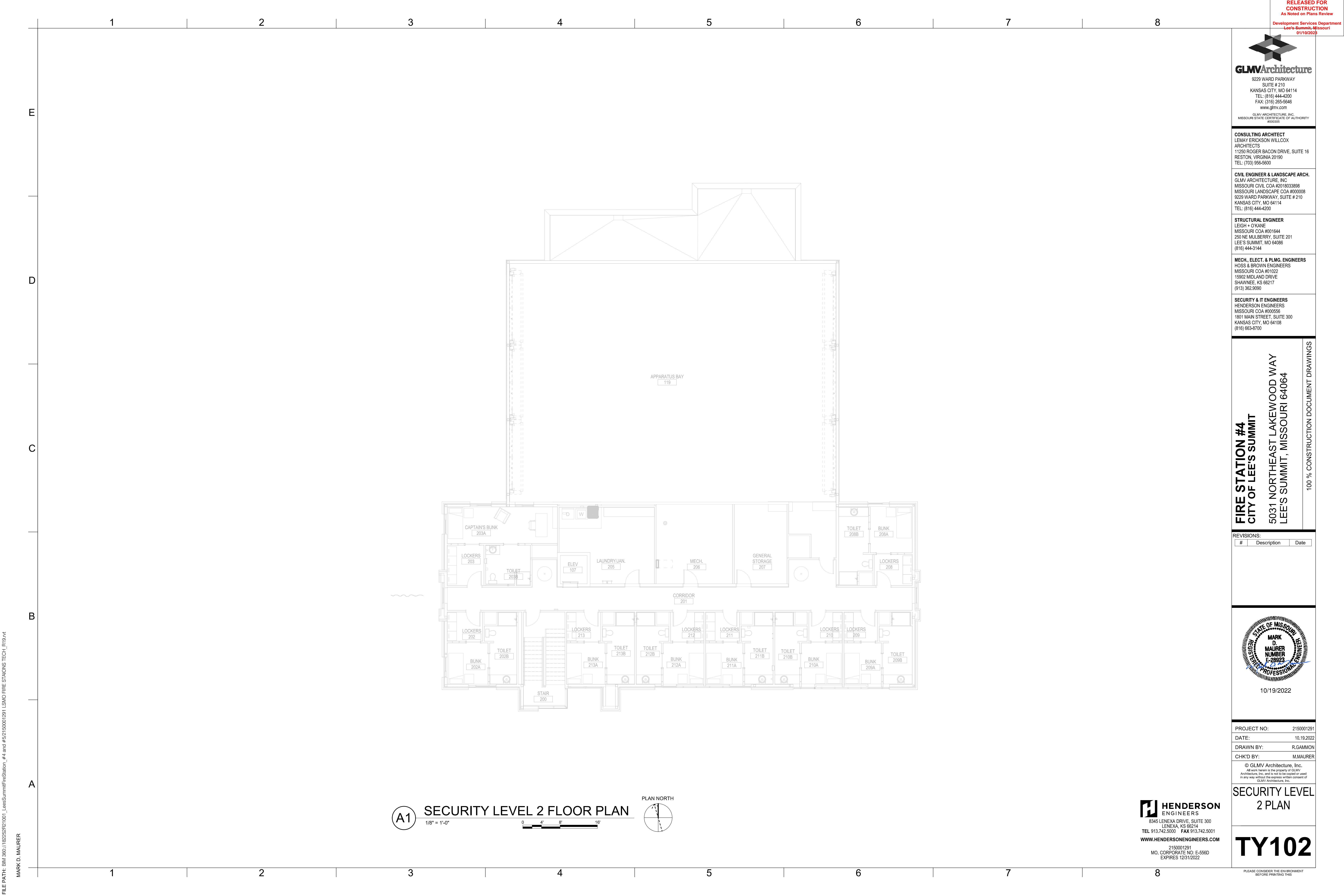
PROJECT NO: 2150001291
DATE: 10.19.2022
DRAWN BY: R.GAMMON
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SECURITY LEVEL
1 PLAN

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MO. CORPORATE NO: E-556D
EXPIRES 12/31/2022



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MARK D. MAURER



CONSULTING ARCHITECT
LEMAY ERICKSON WILLCOX
ARCHITECTS
11250 ROGER BACON DRIVE, SUITE 16
RESTON, VIRGINIA 20190
TEL: (703) 956-5600

CIVIL ENGINEER & LANDSCAPE ARCH.
GLMV ARCHITECTURE, INC.
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MISSOURI LANDSCAPE COA #000008
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KANSAS CITY, MO 64114
TEL: (816) 444-4200

STRUCTURAL ENGINEER
LEIGH + O'KANE
MISSOURI COA #001644
250 NE MULBERRY, SUITE 201
LEE'S SUMMIT, MO 64086
(816) 444-3144

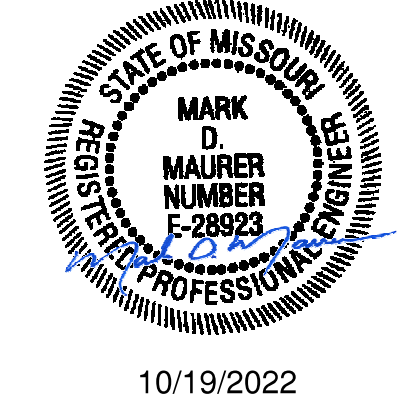
MECH, ELEC. & PLUMB. ENGINEERS
HOSS & BROWN ENGINEERS
MISSOURI COA #01022
15902 MIDLAND DRIVE
SHAWNEE, KS 66217
(913) 362-9090

SECURITY & IT ENGINEERS
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MISSOURI COA #000556
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KANSAS CITY, MO 64108
(816) 663-8700

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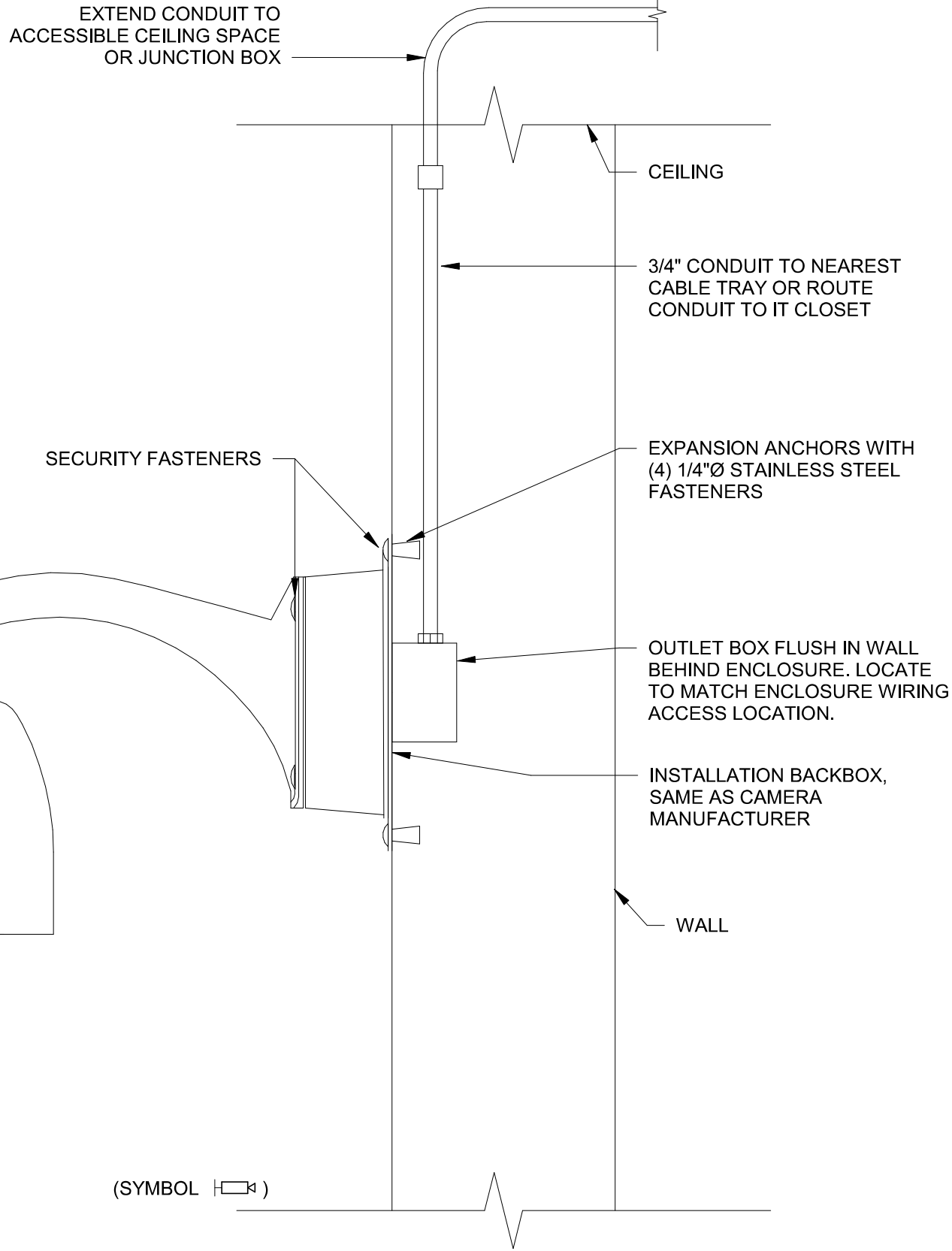
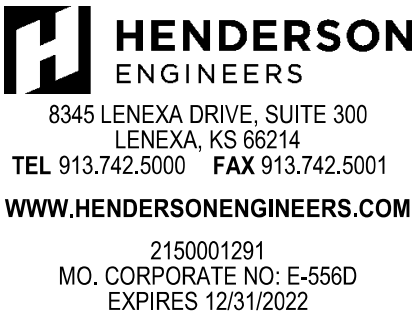
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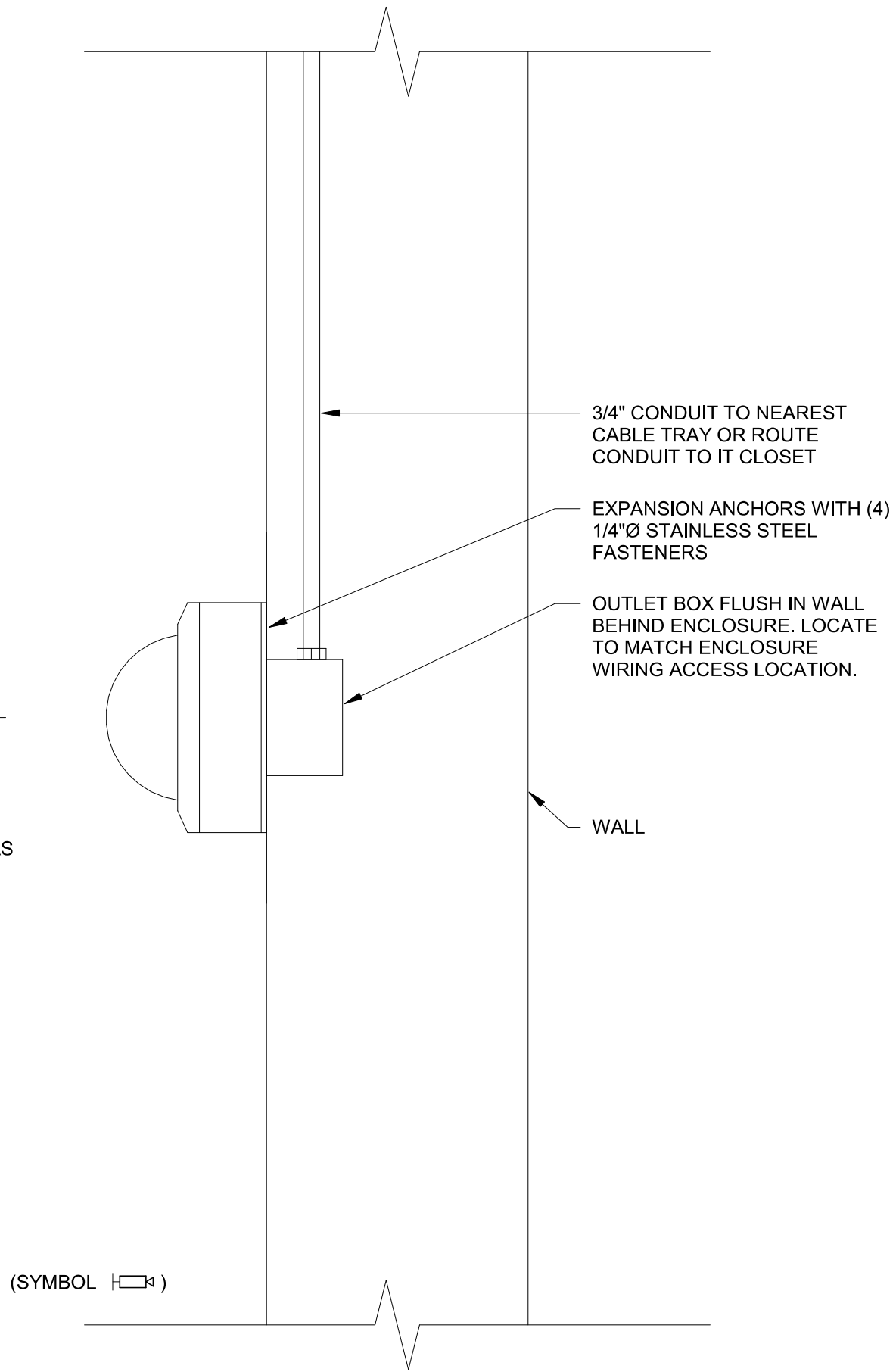
SECURITY
DETAILS

TY500

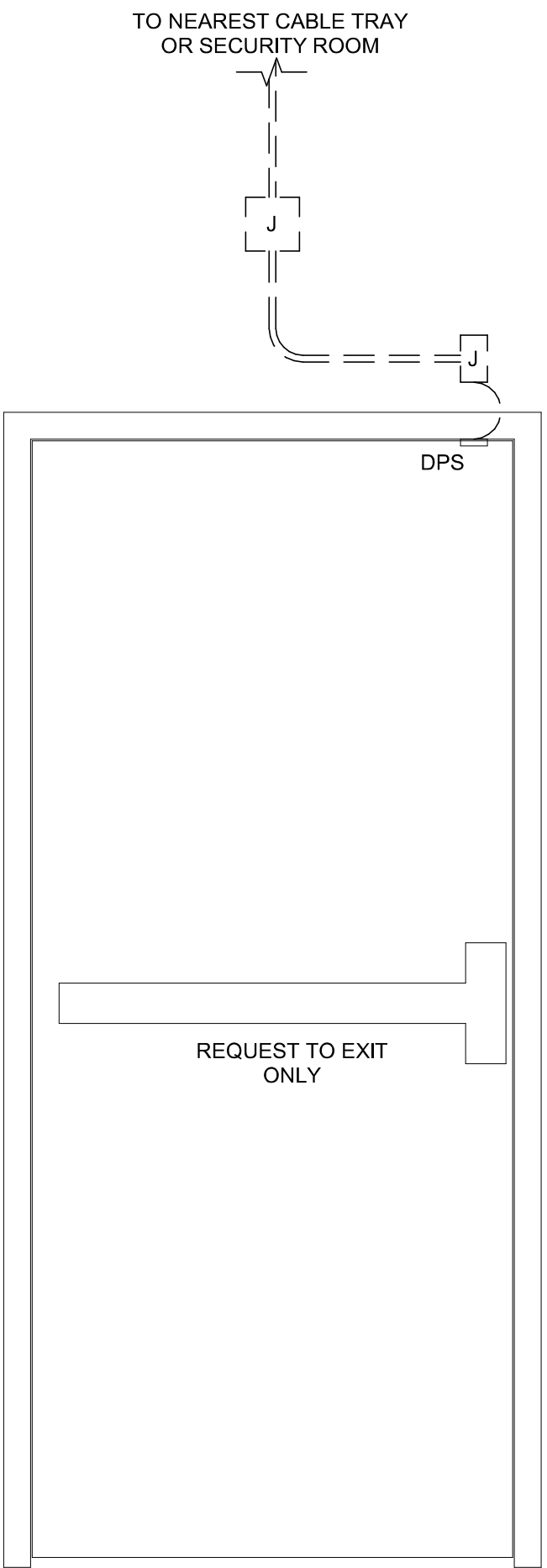
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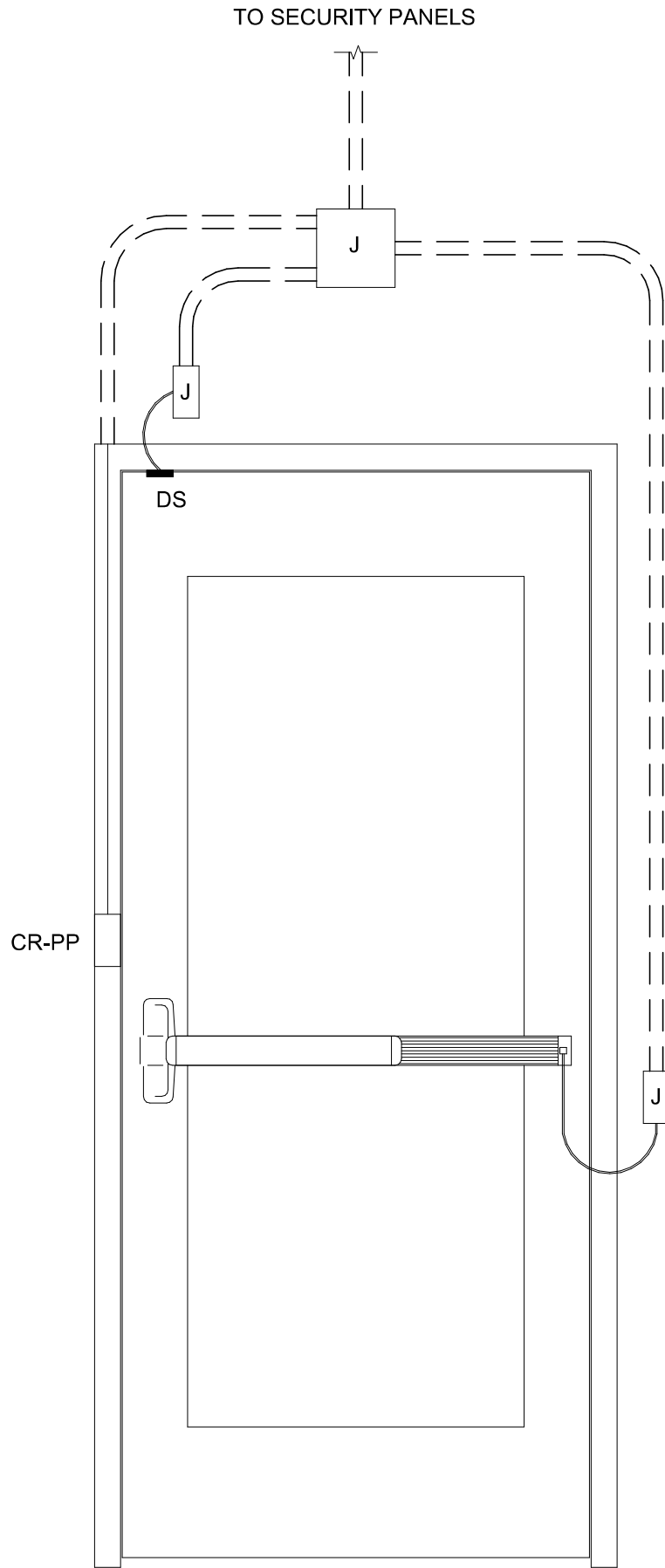
C5 WALL MOUNT PTZ
NOT TO SCALE



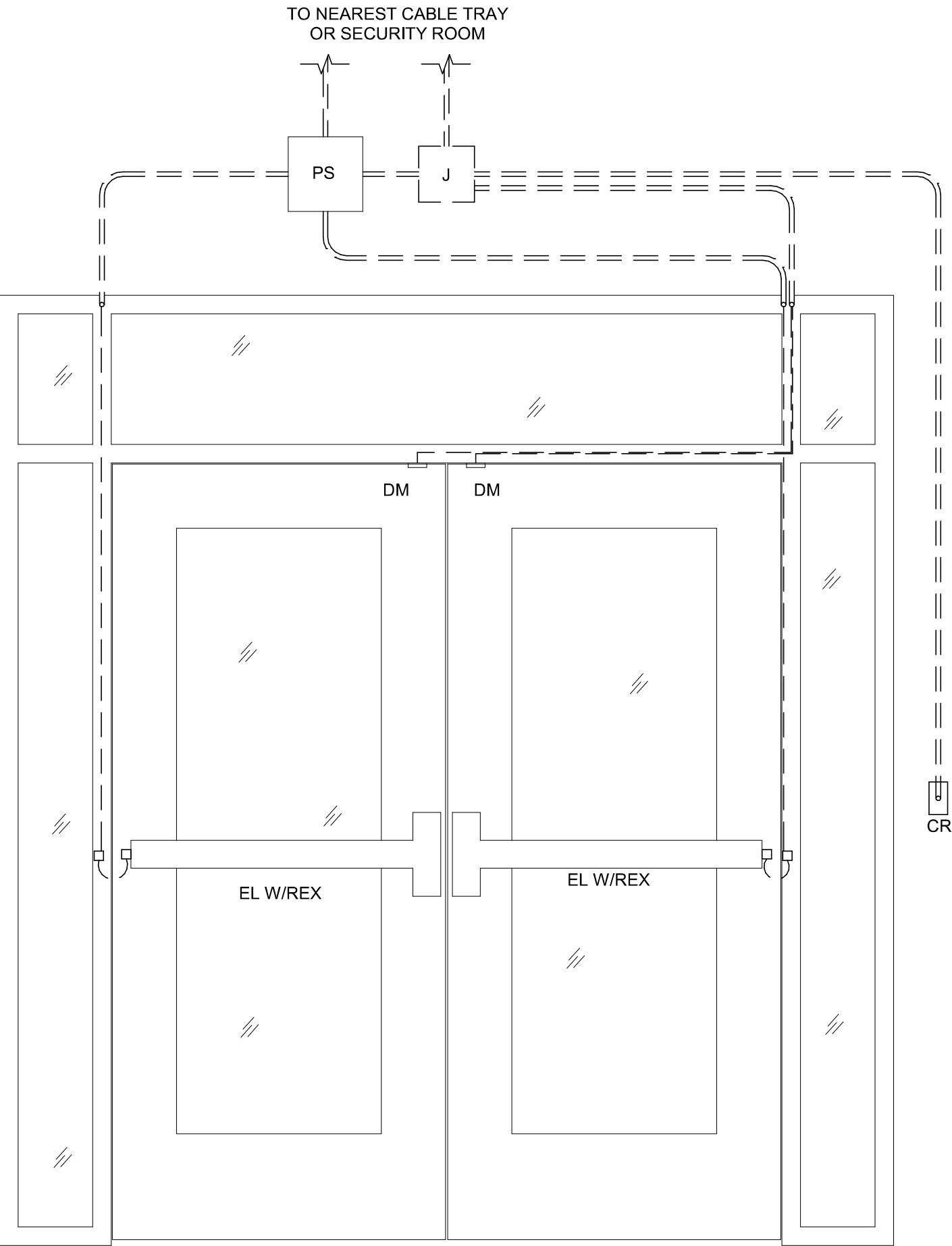
C2 SURFACE MOUNTED DOME CAMERA DETAIL
NOT TO SCALE



A6 SINGLE DOOR WITH PANIC DEVICE EXIT ONLY
NOT TO SCALE



A4 SINGLE STORE FRONT DOOR WIDE STYLE
NOT TO SCALE



A1 PAIR STORE FRONT DOORS CARD READER
NOT TO SCALE