

CITY OF LEE'S SUMMIT FIRE STATION #5

801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

TERMS AND ABBREVIATIONS

ABBREVIATION	TERM	CONST	CONSULT	CONSTRUCTION	CONSULTANT	FHC	FIRE HOSE CABINET	FLUOR LT	FLUORESCENT LIGHT(ING)	RD	ROOF DRAIN
A	LABEL	CLASS A DOOR	CONT	CONTINUE	FHP	FIN	FULL HEIGHT PARTITION	LT GA	LIGHT GAGE	RDG INS	RIGID INSULATION, SOLID
A/C	AIR CONDITION(ER)	COORD	COORDINATE	CORRIDOR	FIN BS	FIN FLR	FINISH BOTH SIDES	LTG	LIGHTING	REBAR	REINFORCING STEEL BARS
A/C UNIT	AIR CONDITIONING UNIT	COV PL	COVER PLATE	CORRIDOR	FIN GR	FIN GR	FINISH FLOOR	LVR	LOUVER	REIN	REINFORCE(D)
A/E	ARCHITECT/ENGINEER	CP	CONTROL PANEL	COVER PLATE	FIN WD	FIN WD	FINISH WOOD	REQ	REQUIRED	REQD	REQUIRED
AAP	ALARM ANNUNCIATOR PANEL	CPT	CARPET	CARPET	FLG	FLG	FIXTURE	RESIL	RESILIENT	RESIL	RESILIENT
AB	ANCHOR BOLT	CR	CIRCUMFERENCE	CARPET	FLR	FLR	FLOOR	RHR	RIGHT HAND REVERSE	RL	RAILING
ABBRV	ABBREVIATION	CRT YD	COURTYARD	CARPET	FLR SK	FLR SK	FLOOR SINK	RO	ROUGH OPENING	RM	ROOM
ACC	ACCESSIBLE	CS	CAST STONE	CASING	FN	FN	FENCE	RSD	ROLLING STEEL DOOR	RO	ROUGH OPENING
ACoust INSUL	ACOUSTICAL INSULATION	CSG	CASING	CONSTRUCTION	FR	FR	FIRE RATING	RT	RIGHT	RLG	RUBBER TILE FLOOR
ACoust PNL	ACOUSTICAL PANEL	CSI	CASING	CONSTRUCTION	FRM	FRM	FRAMING	RTF	RUBBER TILE FLOOR	RTG	RATING
ACS DR	ACCESS DOOR	CSMT	CASEMENT	CONSTRUCTION	FRP	FRP	FIBERGLASS REINFORCED	RTU	ROOF TOP UNIT	RVL	REVEAL
ACS FLR	ACCESS FLOOR	CSW	CASEMENT	CONSTRUCTION	FRST GL	FRST GL	FROSTED GLASS	RVL	REVEAL	S	SPLASH BLOCK
ACS PNL	ACCESS PANEL	CSW	CASEMENT	CONSTRUCTION	FRTW	FRTW	FIRE RETARDANT TREATED	SBS	STYRENE BUTADIEN	SBSTR	SUBSTRATE
ACT	ACOUSTICAL CEILING TILE	CSW	CASEMENT	CONSTRUCTION	FT	FT	FEET	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
ADA	AMERICANS WITH DISABILITIES ACT	CSW	CASEMENT	CONSTRUCTION	FTG	FTG	FOOTING	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
AFF	ABOVE FINISHED FLOOR	CSW	CASEMENT	CONSTRUCTION	FURN	FURN	FURNITURE	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
AGGR	AGGREGATE	CSW	CASEMENT	CONSTRUCTION	FW	FW	FIRE WALL	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
AHU	AUTHORITY HAVING JURISDICTION	CSW	CASEMENT	CONSTRUCTION	FWC	FWC	FABRIC WALLCOVERING	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
AHU	AIR HANDLING UNIT	CSW	CASEMENT	CONSTRUCTION	FWRK	FWRK	FORMWORK	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
AIA	AMERICAN INSTITUTE OF ARCHITECTS	CSW	CASEMENT	CONSTRUCTION	G	G	GALVANIZED	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
ALM	ALARM	CSW	CASEMENT	CONSTRUCTION	GALV	GALV	GALVANIZED	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
ALT	ALTERNATE	CSW	CASEMENT	CONSTRUCTION	GALV STL	GALV STL	GALVANIZED STEEL	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
ALT NO	ALTERNATE NUMBER	CSW	CASEMENT	CONSTRUCTION	GB	GB	GRAB BAR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
ALUM	ALUMINUM	CSW	CASEMENT	CONSTRUCTION	GC	GC	GENERAL CONTRACTOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
ANN	ANNUNCIATOR	CSW	CASEMENT	CONSTRUCTION	GFR	GFR	GLASS-FIBER-REINFORCED	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
ANOD	ANODIZE	CSW	CASEMENT	CONSTRUCTION	GFRG	GFRG	GLASS-FIBER-REINFORCED	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
APC	ACOUSTICAL PANEL CEILING	CSW	CASEMENT	CONSTRUCTION	GFRP	GFRP	GLASS-FIBER-REINFORCED	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
APPD	APPROVED	CSW	CASEMENT	CONSTRUCTION	GL	GL	GLASS	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
APPROX	APPROXIMATE	CSW	CASEMENT	CONSTRUCTION	GL BLK	GL BLK	GLASS BLOCK	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
ARCH	ARCHITECT	CSW	CASEMENT	CONSTRUCTION	GLU LAM	GLU LAM	GLUED LAMINATED WOOD	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
ASKR	AUTOMATIC SPRINKLER	CSW	CASEMENT	CONSTRUCTION	GLZ	GLZ	GLAZING	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
ASPH	ASPHALT	CSW	CASEMENT	CONSTRUCTION	GLZ CMU	GLZ CMU	GLAZED CONCRETE	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
AV	AUDIO VISUAL	CSW	CASEMENT	CONSTRUCTION	GPC	GPC	GYPSPUM PLASTER CEILING	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
B	LABEL	CLASS B DOOR	DIA	DIAMETER	GR BM	GR BM	GRADE BEAM	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
B PL	BASE PLATE	DIAM	DIMENSION	DIAMETER	GR FL	GR FL	GRADE FLOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BAS	BUILDING AUTOMATION SYSTEM	DIST	DISTANCE	DIAMETER	GR LN	GR LN	GRADE LINE	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BB	BASEBOARD	DOC	DOCUMENT	DIAMETER	GSB	GSB	GYPSPUM SHEATHING BOARD	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BC	BOOKCASE	DP	DOOR	DIAMETER	GUT	GUT	GUTTER	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BD	BOARD	DR	DOOR	DIAMETER	GW	GW	GLAZED WALL TILE	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BDRY	BOUNDARY	DR CL	DOOR CLOSER	DIAMETER	GYP	GYP	GYPSPUM BOARD	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BFF	BUILDING FINISHED FLOOR	DR OPNG	DOOR OPENING	DIAMETER	GYP BD	GYP BD	GYPSPUM BOARD	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BHMA	BUILDING'S HARDWARE	DRH	DOOR HOLDER	DIAMETER	GYP PLAS	GYP PLAS	GYPSPUM PLASTER	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BITUM	BITUMINOUS	DRLO	DOOR LOUVER	DIAMETER	H	H	HOSE BIBB	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BLKHD	BULKHEAD	DRST	DOOR STOP	DIAMETER	HB	HB	HANDICAPPED	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BLT IN	BUILT IN	DRSW	DOOR SWITCH	DIAMETER	HCP	HCP	HOLLOW CORE WOOD DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BLW CLG	BELOW CEILING	DW	DISHWASHER	DIAMETER	HCWD	HCWD	HOLLOW CORE WOOD DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BN	BULLNOSE	DWG	DRAWING	DIAMETER	HDWD	HDWD	HOLLOW CORE WOOD DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BRCG	BRACING	E	LABEL	CLASS E DOOR	HMD	HMD	HOLLOW METAL DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BRDG	BRIDGING	EACH	EACH	CLASS E DOOR	HMD	HMD	HOLLOW METAL DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BRDG JST	BRIDGING JOIST	EFS	EXTERNAL FINISH SYSTEM	CLASS E DOOR	HMD	HMD	HOLLOW METAL DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BRG	BEARING	EG	EXTERNAL GYPSUM BOARD	CLASS E DOOR	HMD	HMD	HOLLOW METAL DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BRG PL	BEARING PLATE	EGSB	EXTERNAL GYPSUM BOARD	CLASS E DOOR	HMD	HMD	HOLLOW METAL DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BRZ	BRONZE	EIFS	EXTERNAL FINISH SYSTEM	CLASS E DOOR	HMD	HMD	HOLLOW METAL DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BTWN	BETWEEN	EJ	EXPANSION JOINT	CLASS E DOOR	HMD	HMD	HOLLOW METAL DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
BUR	BUILT-UP ROOFING	EL	ELEVATION	CLASS E DOOR	HMD	HMD	HOLLOW METAL DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
C	LABEL	CLASS C DOOR	EL	ELEVATION	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CAB	CABINET	ELC	ELECTRICAL	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CAC	CEILING ATTENUATION	ENR	ENTRANCE	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CLASS	CLASS	EOS	EDGE OF SLAB	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CATW	CATWALK	EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CBB	CEMENTITIOUS BACKER BOARD	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CEM	CEMENT	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CEM FIN	CEMENT FINISH	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CEM PLAS	CEMENT PLASTER	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CEM PLAS CLG	CEMENT PLASTER CEILING	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CER	CERAMIC	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CF	CONTRACTOR FURNISHED	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CFE	CONTRACTOR FURNISHED EQUIPMENT	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CFLG	COUNTERFLASHING	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CFMF	COLD-FORMED METAL FRAMING	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CG	CORNER GUARD	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CHFR	CHAMFER	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CIP	CAST-IRON	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CIR	CIRCLE	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CJ	CONTROL JOINT	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CL	CLADDING	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CLDG	CEILING	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CLG DIFF	CEILING DIFFUSER	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CLG GR	CEILING GRILLE	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CLG HT	CEILING HEIGHT	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CLG REG	CEILING REGISTER	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CLK JT	CAULKED JOINT	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CLR	COLOR	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CMFST	COMPOSITE	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CMFTR	COMPUTER	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CMU	CONCRETE MASONRY UNIT	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CNR	CORNER	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CNTOR	CONTRACTOR	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CNTR	COUNTER	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CO	CLEANOUT	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
COL	COLUMN	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
COMM	COMMUNICATION	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CONC	CONCRETE	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CONC FLR	CONCRETE FLOOR	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY
CONC OPNG	CONCRETE OPENING	EQ	EQUIPMENT	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	CLASS C DOOR	SCMU	SCHEDULE	SCMU	SOLID CONCRETE MASONRY

GRAPHIC SYMBOLS LEGEND

FLOOR PLAN REFERENCE INDICATORS		NORTH INDICATOR		COLUMN LINE GRID INDICATOR	
NAME	ROOM TAG	101A	DOOR TAG	101A	REVISION TAG
NO	NO	NO	NO	NO	NO
ID	WINDOW TAG	ID	PARTITION TAG	ID	KEYNOTE TAG
100'-0"	SPOT ELEVATION TAG	100'-0"	CENTER LINE	100'-0"	EQUIPMENT TAG
DRAWING BLOCK TITLE		DRAWING BLOCK TITLE		DRAWING BLOCK TITLE	
VIEW NUMBER		VIEW NUMBER		VIEW NUMBER	
X" = X'-X"		X" = X'-X"		X" = X'-X"	
VIEW SCALE		VIEW SCALE		VIEW SCALE	
DETAIL/CALLOUT IDENTIFICATION		EXTERIOR ELEVATION IDENTIFICATION		EXTERIOR ELEVATION IDENTIFICATION	
SECTION NUMBER		SECTION NUMBER		SECTION NUMBER	
SHEET NUMBER		SHEET NUMBER		SHEET NUMBER	
BUILDING SECTION IDENTIFICATION		EXTERIOR ELEVATION IDENTIFICATION		EXTERIOR ELEVATION IDENTIFICATION	
SECTION NUMBER		SECTION NUMBER		SECTION NUMBER	
SHEET NUMBER		SHEET NUMBER		SHEET NUMBER	
WALL SECTION IDENTIFICATION		INTERIOR ELEVATION IDENTIFICATION		INTERIOR ELEVATION IDENTIFICATION	
SECTION NUMBER		SECTION NUMBER		SECTION NUMBER	
SHEET NUMBER		SHEET NUMBER		SHEET NUMBER	

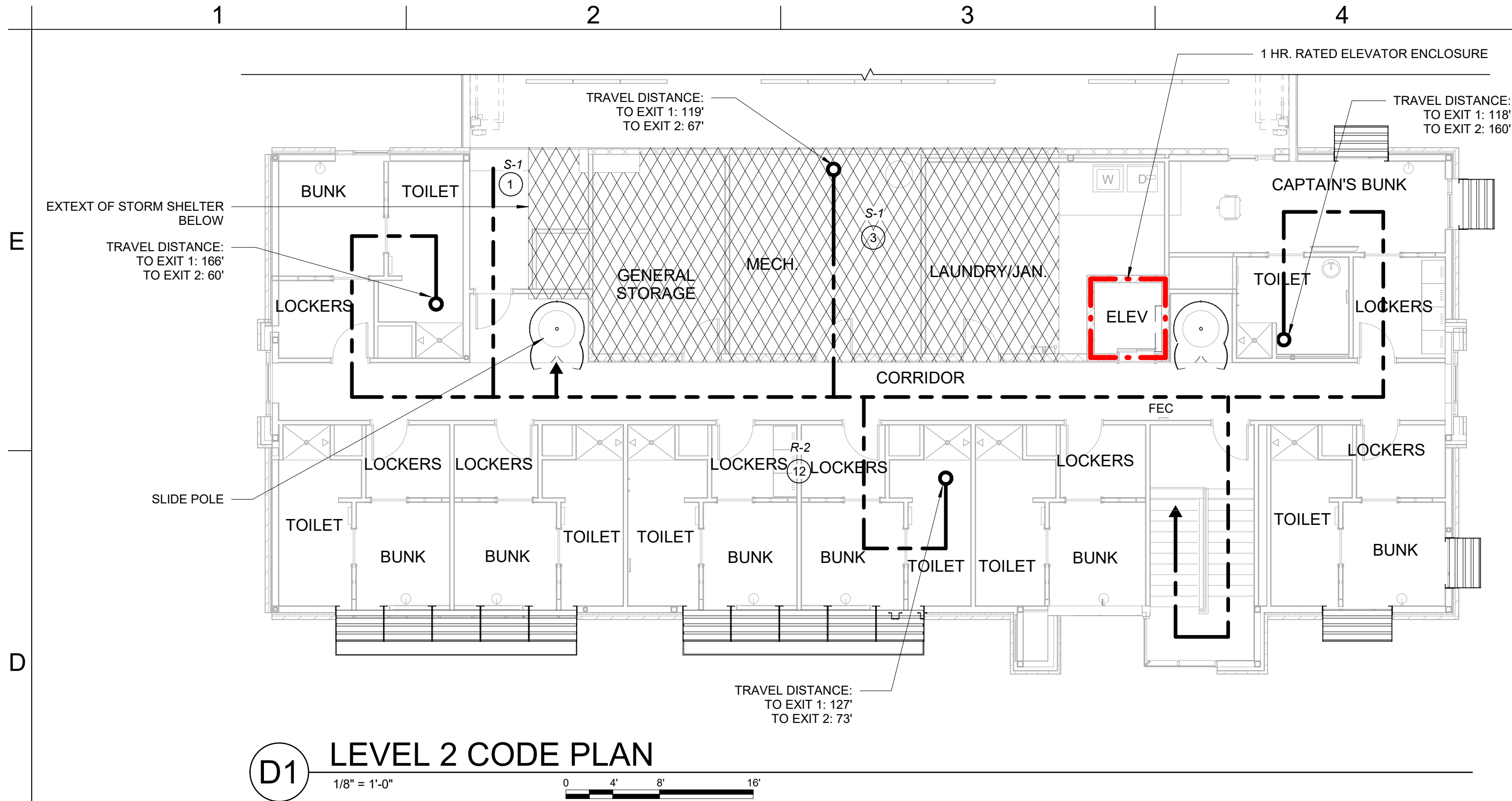
MATERIAL SYMBOLS LEGEND

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)

SHEET INDEX

SHEET NUMBER		SHEET NAME		SHEET NUMBER		SHEET NAME		
<u>FIRE STATION #5</u>				INTERIORS				
GENERAL				I-001	TYPICAL MOUNTING HEIGHTS			
G-001	COVER SHEET			I-201	INTERIOR DESIGN ELEVATIONS			
G-002	CODE SUMMARY			I-202	INTERIOR DESIGN ELEVATIONS			
G-003	CODE MODIFICATION			I-203	APPARATUS BAY ELEVATIONS			
G-004	STORM SHELTER CODE SUMMARY			I-501	CASEWORK SECTIONS			
				I-601	FINISH SCHEDULE			
CIVIL				MECHANICAL				
GS001	SURVEY			ME001	MPE SITE PLAN			
C-001	FINAL DEVELOPMENT PLAN COVER SHEET			ME002	SITE LIGHTING PHOTOMETRIC PLAN			
C-100	SITE PLAN			ME101	MPE ROOF PLAN			
C-101	LAYOUT PLAN			M-001	HVAC SYMBOLS LEGEND			
C-102	DEMOLITION PLAN			M-101	FIRST FLOOR HVAC PLAN			
C-103	EROSION CONTROL PLAN			M-102	SECOND FLOOR HVAC PLAN			
C-104	GRADING & DRAINAGE PLAN			M-201	FIRST FLOOR HVAC PIPING PLAN			
C-105	UTILITY PLAN			M-202	SECOND FLOOR HVAC PIPING PLAN			
C-220	PUBLIC WATER PLAN & PROFILES			M-301	MECHANICAL DETAILS			
C-230	PUBLIC STORMWATER PROFILES			M-401	MECHANICAL SCHEDULES			
C-231	PRIVATE STORMWATER PROFILES			M-402	MECHANICAL SCHEDULES			
C-400	SITE ENLARGEMENT			PLUMBING				
C-401	SITE ENLARGEMENT			P-001	PLUMBING SYMBOLS LEGEND			
C-402	SITE ENLARGEMENT			P-100	UNDERGROUND PLUMBING PLAN			
C-500	SITE DETAILS			P-101	FIRST FLOOR PLUMBING PLAN			
C-501	SITE DETAILS			P-102	SECOND FLOOR PLUMBING PLAN			
C-502	SITE DETAILS			P-301	PLUMBING DETAILS			
C-503	SITE DETAILS			P-302	WASTE AND VENT RISERS			
C-504	SITE DETAILS			P-303	DOMESTIC WATER RISERS			
C-510	EROSION CONTROL DETAILS			P-401	PLUMBING SCHEDULES			
C-511	EROSION CONTROL DETAILS			ELECTRICAL				
C-520	WATER DETAILS			E-001	ELECTRICAL SYMBOLS LEGEND			
C-521	WATER DETAILS			E-101	FIRST FLOOR LIGHTING RCP			
C-530	STORMWATER DETAILS			E-102	SECOND FLOOR LIGHTING RCP			
C-531	STORMWATER DETAILS			E-201	FIRST FLOOR POWER PLAN			
C-532	STORMWATER DETAILS			E-202	SECOND FLOOR POWER PLAN			
C-540	SANITARY SEWER DETAILS			E-401	FIRST FLOOR FIRE ALARM PLAN			
LANDSCAPE				E-402	SECOND FLOOR FIRE ALARM PLAN			
L-100	LANDSCAPE SCHEDULE			E-501	ELECTRICAL DETAILS			
L-101	LANDSCAPE PLAN			E-502	ELECTRICAL ONE-LINE DIAGRAM			
STRUCTURAL				E-600	ELECTRICAL SCHEDULES			
S-001	GENERAL NOTES			E-601	PANELBOARD SCHEDULES			
S-100	FOUNDATION PLAN			AUDIO VIDEO				
S-101	LEVEL 3 FRAMING PLAN			TA000	AUDIO-VIDEO GENERAL NOTES			
S-103	LOW ROOF FRAMING PLAN			TA001	AUDIO-VIDEO GENERAL SYMBOLS			
S-104	HIGH ROOF FRAMING PLAN			TA101	AUDIO-VIDEO LEVEL 1 PLAN			
S-300	FOUNDATION SECTIONS			TA102	AUDIO-VIDEO LEVEL 2 PLAN			
S-301	FOUNDATION SECTIONS			TA201	AUDIO-VIDEO LEVEL 1 RCP			
S-302	FLOOR SECTIONS			TA600	AUDIO-VIDEO SCHEDULES & SIGNAL FLOWS			
S-303	ROOF SECTIONS			INFORMATION TECHNOLOGY				
S-304	ROOF SECTIONS			TN000	TECHNOLOGY GENERAL NOTES			
S-305	ROOF SECTIONS			TN101	TECHNOLOGY LEVEL 1 PLAN			
S-306	ROOF SECTIONS			TN102	TECHNOLOGY LEVEL 2 PLAN			
S-307	MISC. DETAILS			TN201	TECHNOLOGY LEVEL 1 RCP			
S-308	RETAINING WALL SECTIONS			TN202	TECHNOLOGY LEVEL 2 RCP			
S-500	TYPICAL DETAILS			TN400	ENLARGED PLANS			
S-501	TYPICAL DETAILS			TN500	TECHNOLOGY DETAILS			
ARCHITECTURAL				TN501	TECHNOLOGY DETAILS			
A-101	FIRST FLOOR PLAN			SECURITY				
A-102	SECOND FLOOR PLAN			TY000	SECURITY GENERAL NOTES			
A-103	FIRST FLOOR DIMENSION PLAN			TY100	SECURITY SITE PLAN			
A-104	SECOND FLOOR DIMENSION PLAN			TY101	SECURITY LEVEL 1 PLAN			
A-111	FIRST FLOOR REFLECTED CEILING PLAN			TY102	SECURITY LEVEL 2 PLAN			
A-112	SECOND FLOOR REFLECTED CEILING PLAN			TY500	SECURITY DETAILS			
A-121	ROOF PLAN							
A-201	BUILDING ELEVATIONS							
A-202	BUILDING ELEVATIONS							
A-301	BUILDING SECTIONS							
A-401	WALL SECTIONS							
A-402	WALL SECTIONS							
A-403	WALL SECTIONS							
A-404	WALL SECTIONS							
A-410	ENLARGED STAIR PLAN AND SECTION							
A-411	ENLARGED ELEVATOR PLAN							
A-501	WALL DETAILS							
A-502	WALL DETAILS							
A-511	ROOF DETAILS							
A-512	ROOF DETAILS							
A-513	ROOF DETAILS							
A-601	PARTITION TYPES							
A-602	UL DETAILS							
A-603	UL DETAILS							
A-610	WINDOW ELEVATIONS							
A-611	WINDOW DETAILS							
A-612	WINDOW DETAILS							
A-613	EXTERIOR DOOR DETAILS							
A-621	DOOR AND FRAME SCHEDULE							
A-622	DOOR DETAILS							

FILE PATH: BIM 360://18225R21001_LeeSummitFireStation_#4 and #5/LSMO FireStation 5.rvt



CODE INFORMATION

I. Applicable Codes

- A. 2018 IBC
- C. 2020 ICC 500
- D. ICC/ANSI A117.1-2009
- E. 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:

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

III. Code Compliance Summary:

A. Building Height & Area:

- 1. 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 Bays
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

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

Notes:

- a. 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."
- b. 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 602:

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

5. Accessory Storage room separation (>100sf)

Occupant Load (IBC Table 1004.5)	
Business	19
Residential	12
Storage	34
Total	65

D. Plumbing Fixtures as Required per IBC Table 2902.2:

Notes:

- 1. Per IBC 2902.1.1, occupancy shall be viewed at 50% male and 50% female
- 2. 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.
- 3. Occupant loads for plumbing fixture calculations have been calculated in accordance with IPC Table 403.1 and IBC 2902

Business	1894gsf / 100	18.90cc
- Toilets (M):	190cc / 25	0.76
- Toilets (F):	190cc / 25	0.76
- Lavatories (M):	190cc / 25	0.76
- Lavatories (F):	190cc / 25	0.76
- Drinking Fountain:	190cc / 100	0.19
Residential	2538gsf / 200	12.00cc
- Toilets (M):	120cc / 10	1.20
- Toilets (F):	120cc / 10	1.20
- Lavatories (M):	120cc / 10	1.20
- Lavatories (F):	120cc / 10	1.20
- Showers:	120cc / 8	1.50
- Drinking Fountain:	120cc / 100	0.12
Storage	1969gsf / 300	6.60cc
3606gsf / 200	18.00cc	
322gsf / 50	6.40cc	
- Toilets (M):	310cc / 100	0.31
- Toilets (F):	310cc / 100	0.31
- Lavatories (M):	310cc / 100	0.31
- Lavatories (F):	310cc / 100	0.31
- Drinking Fountain:	310cc / 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:

- 1. See Code Plan for additional exit /egress information
- 2. Per IBC Table 1017.2, Exit Access Travel Distance shall not exceed 250'.
- 3. Maximum Common Path of Egress Travel

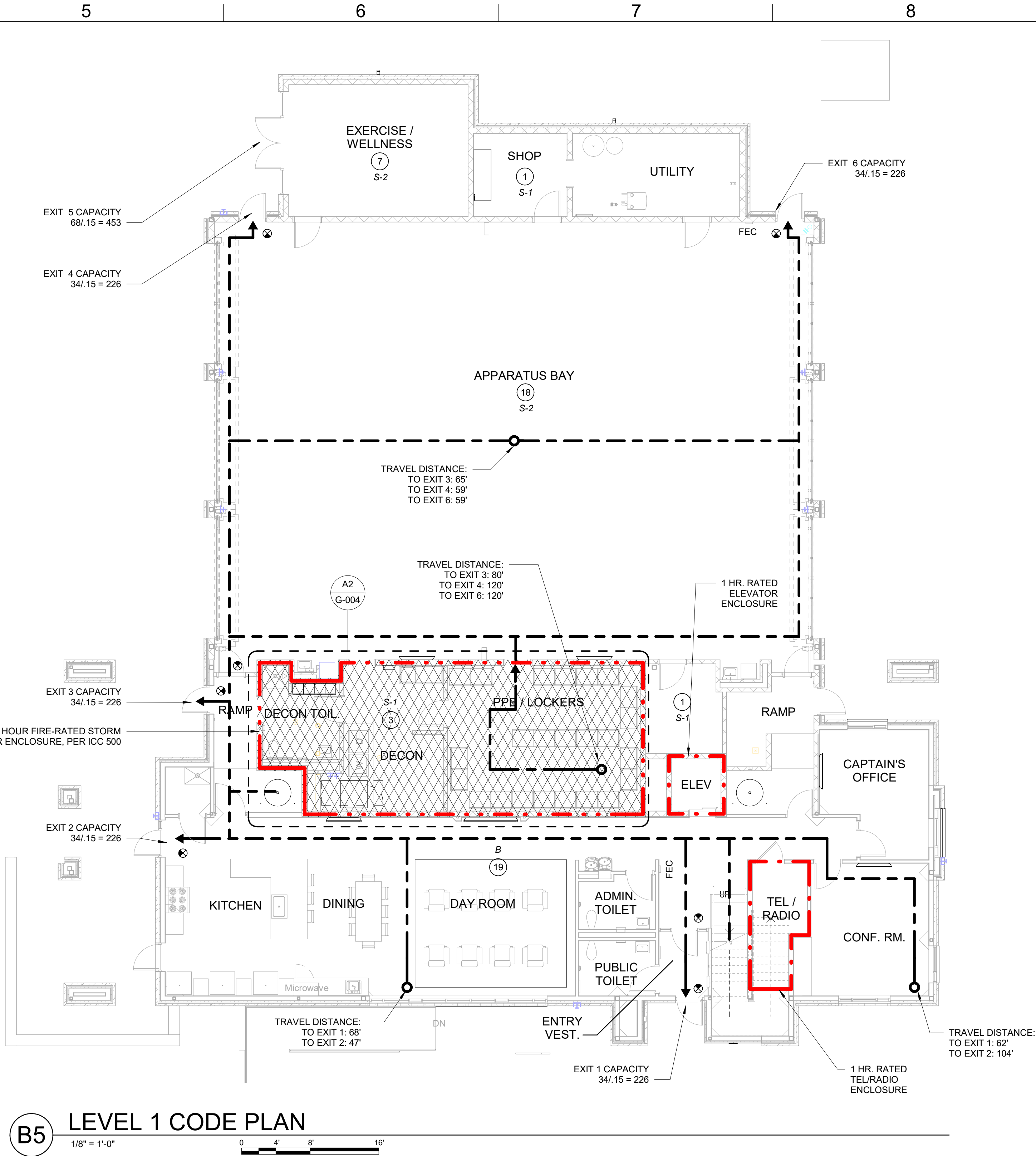
1. Per IBC Table 1006.2.1	Required
B, S	100 ft
R-2	125 ft
All others	75 ft

G. Sprinkler System

- 1. NFPA 13
- 2. IBC 903
- 3. Centrally Monitored

H. Fire Alarm System

- 1. 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."



CODE PLAN LEGEND

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

INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANCY

PER IBC TABLE 803.13			
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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HENDERSON ENGINEERS
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(816) 663-8700

FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082
ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
---	-------------	------



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

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CODE SUMMARY

G-002

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 DEISTER - CODES ADMINISTRATION MANAGER () APPROVAL (X) DENIAL

SIGNATURE: Tracy Deister DATE: 8/1/2022

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

SIGNATURE: [Signature] DATE:

COMMENTS: Ratios 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/reg2010/2010ADASTandardsGuidance2010ADAa...>

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)(1) 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" be noted in the Advisory note to section 234.1 of the 2004 ADAAG, be included in the final rule. The Advisory note provides that "All custom designed and constructed rides are 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 234.4.2 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)(1) 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 the final rule, a facility that is 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(e) 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 individuals with disabilities. Once the construction or alteration of a facility has been completed, all other aspects of programs, services, and activities conducted in that facility are subject to the operational requirements established in this final rule. Although the Department may use the requirements of the 2010 Standards as a guide to determining when and how to make equipment and furnishings accessible, those determinations fall within the discretionary authority of the Department.

The Department also wishes to clarify that the advisory notes, appendices 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 AEPH 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 S04.4 suggests, but does not require, that covered entities provide physical 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 permanently long-term in

Guidance on the 2010 ADA Standards for Accessible Design: Volume 2 <https://www.ada.gov/reg2010/2010ADASTandardsGuidance2010ADAa...>

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 room(s) 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 purposes. 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 usable 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 access 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 confronted 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 DEISTER - CODES ADMINISTRATION MANAGER (X) APPROVAL () DENIAL

SIGNATURE: Tracy Deister DATE: 8/1/2022

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

SIGNATURE: [Signature] DATE:

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
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 Deister - Codes Administration Manager (X) APPROVAL () DENIAL

SIGNATURE: Tracy Deister DATE:

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

SIGNATURE: [Signature] DATE:

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

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 1020.1

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 508.4.4, the code requires that there be a 1-hour fire-rated separation between those occupancies. Also, in accordance with IBC Table 1020.1, 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 "B" 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

February 10, 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, CHAPTER 2 - DEFINITIONS to Exit Access as it relates to Section 1006.3.3(2).

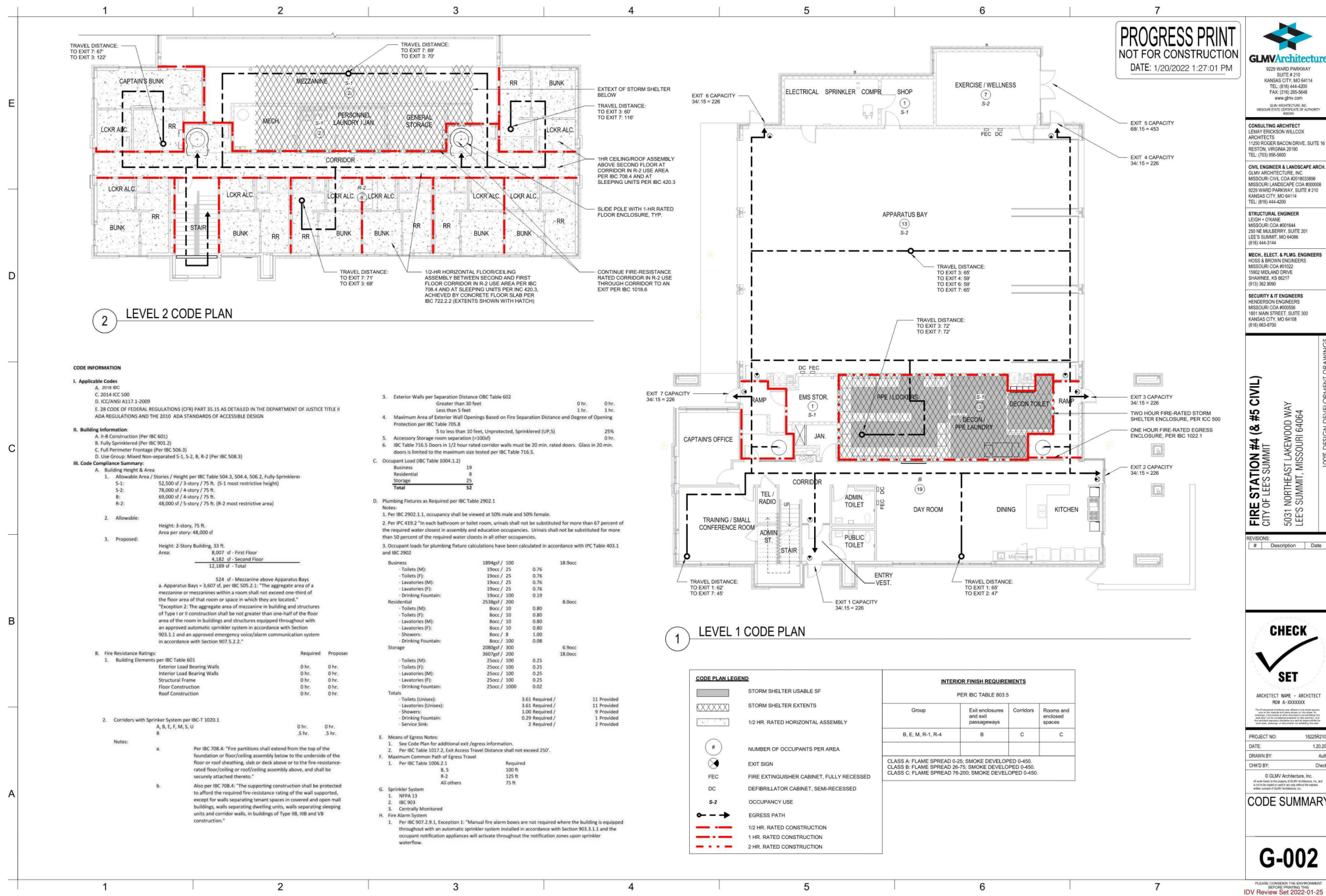
Dear Mr. Deister and Mr. Elam:

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:

- In accordance with Table 1006.3.3(2), the R-2 Use Group on the second floor requires a second exit or access to a second exit from the second floor to the first floor, and the main stair is designated as an Exit Access Stair; the request is for the City of Lee's Summit to consider the fire response pole included as a part of the "Exit Access".
- The plan current represents two response poles located at approximately the one-third and two-thirds points of the second floor corridor. As the second floor will house the private bunks of professional, able-bodied firefighters, they will have a very high level of familiarity and comfort with the use of such poles. The occupants will readily use those devices as part of their means of egress out of the station. The three vertical egress elements are located on the second floor and provide egress paths that allow for remote ways of exiting the building safely and address the intent of the code.

Sincerely,

[Signature]
Matthew Fadel, AIA, LEED AP
Project Manager



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FSMA ARCHITECTS
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RESTON, VIRGINIA 20190
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SECURITY & IT ENGINEERS
HENDERSON ENGINEERS
MISSOURI COA #000556
1801 MAIN STREET, SUITE 300
KANSAS CITY, MO 64108
(816) 863-8700

FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082
ISSUED FOR CONSTRUCTION

REVISIONS:
Description Date



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

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CODE MODIFICATION

G-003

FILE PATH: B:\360-1\18225R21001_LeeSummitFireStation_#4 and #5\LSMO_FIRE STATION 5.rvt

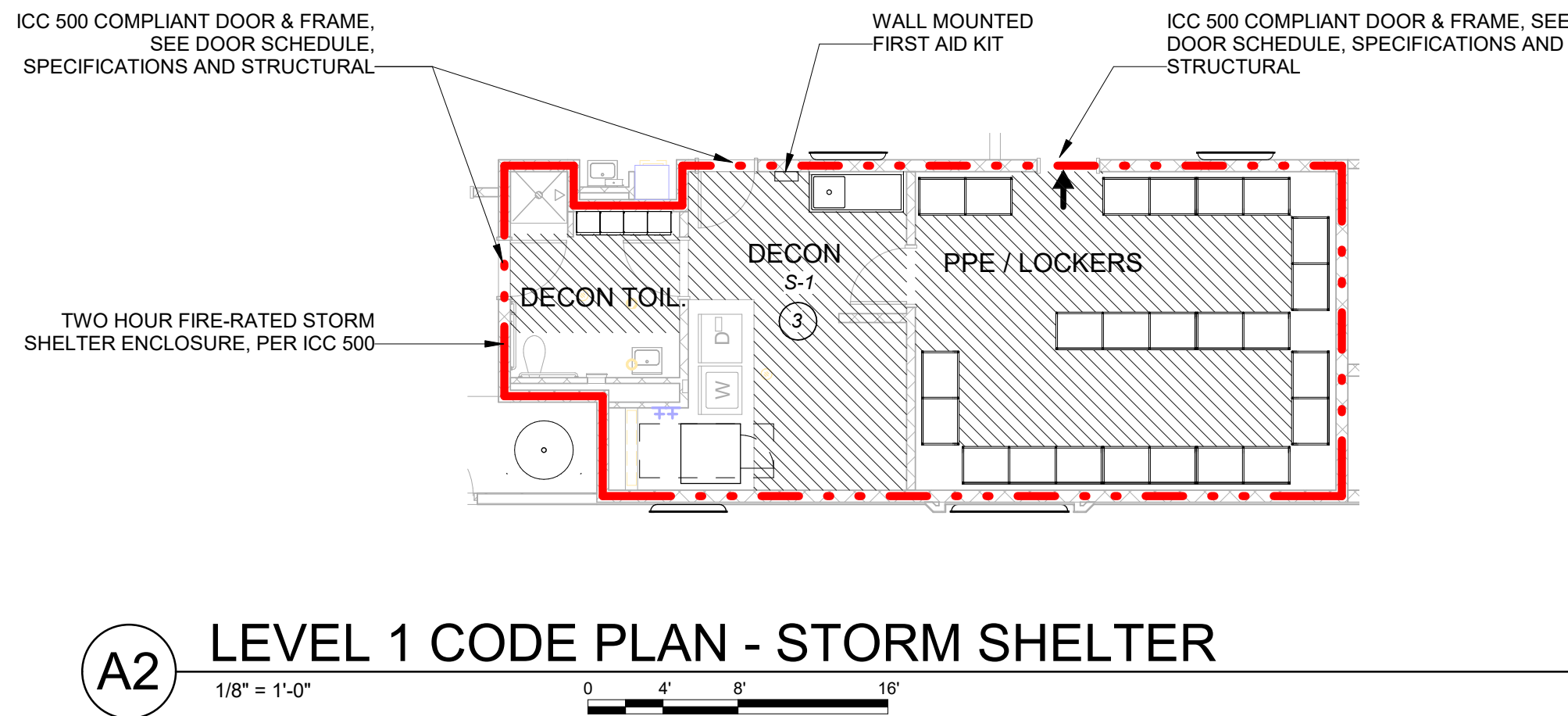
E

D

C

B

A



STORM SHELTER INFORMATION:

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.

[S106.2.1] DESIGN INFORMATION		
• TYPE:		COMMUNITY SHELTER FOR TORNADO PROTECTION
• RISK CATEGORY:		IV (FIRE, RESCUE, AMBULANCE AND POLICE STATIONS)
• DESIGN WIND SPEED (V _i):		250 MPH
• WIND EXPOSURE CATEGORY:		C
• INTERNAL PRESSURE COEFFICIENT (GC _{pi}):		+/- 0.55
• TOPOGRAPHIC FACTOR (K _{zt}):		1.0
• DIRECTIONALITY FACTOR (K _d):		1.0
• DESIGN WIND PRESSURE FOR THE SPECIFICATION OF COMPONENTS AND CLADDING OF THE STORM SHELTER ENVELOPE		SEE STRUCTURAL SHEET S-001
• SITING:		
• MINIMUM FLOOR ELEVATION PER AUTHORITY HAVING JURISDICTION		N/A
• 500-YEAR FLOOD ELEVATION		N/A - STRUCTURE NOT LOCATED IN A FLOOD ZONE
• STORM SURGE FLOOD ELEVATION		N/A - STRUCTURE NOT LOCATED IN A FLOOD ZONE
• STORM SHELTER FLOOR ELEVATION		100' - 0" (909.24' CIVIL)
• OCCUPANT LOAD (AS A STORM SHELTER)		
• DESIGN OCCUPANCY LOAD		80
• USABLE FLOOR AREA		407 S.F. (AS INDICATED WITH HATCHED AREA PER §502.4.2)
• VENTING AREA:		REFERENCE MPE SHEET
• SANITATION FIXTURE CALCULATION (TABLE 702.3)		
• STORM SHELTER TYPE:		COMMUNITY, DESIGN OCCUPANCY LOAD >= 50
• WATER CLOSETS:		1 (1 PER 250 FOR THE FIRST 500 OCCUPANTS) REQ'D, 1 PROVIDED
• HAND WASHING FACILITIES:		1 (1 PER 1,000 OCCUPANTS) REQ'D, 1 PROVIDED
• MINIMUM FOUNDATION REQUIREMENTS		
• CAPACITY		REFERENCE STRUCTURAL SHEETS
• THICKNESS		REFERENCE STRUCTURAL SHEETS
• STEEL REINFORCEMENT/ CONCRETE COVER		SEE STRUCTURAL SHEETS
• INSTALLATION REQUIREMENTS		
• ANCHOR LOCATION, MINIMUM EDGE/ END DISTANCE		REFERENCE STRUCTURAL SHEETS
• 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 inforamtion in accordance with Section 508.2. Community storm shelter areas shall be marked by signage in acco4rdance with Sections 508.3 through 508.7, as applicable. All signs shall comply with the visual character requirements of ICC 117.1.

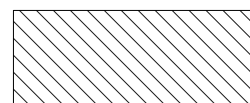
508.2 DESIGN INFORMATION SIGNAGE.
All storm shelters shall have a sign on or within the storm shelter with all of the following:
1. The design occupant capacity.
2. The storm type.
3. The design wind speed.
4. The edition of the ICC 500 used for the design.
5. The name of the manufacturer or builder of the storm shelter.

508.5 DIRECTIONAL SIGNAGE WITHIN A HOST BUILDING
Where a storm shelter is within a host building, to direct untended 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



USABLE FLOOR AREA



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



GLMVArchitecture
9229 WARD PARKWAY
SUITE # 210
KANSAS CITY, MO 64114
TEL: (816) 444-4200
FAX: (316) 265-5646
www.glmv.com
GLMV ARCHITECTURE, INC.
MISSOURI STATE CERTIFICATE OF AUTHORITY
#000305

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

CIVIL ENGINEER & LANDSCAPE ARCH.
GLMV ARCHITECTURE, INC.
MISSOURI CIVIL COA #2018033898
MISSOURI LANDSCAPE COA #000008
9229 WARD PARKWAY, SUITE # 210
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TEL: (816) 444-4200

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

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

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

**FIRE STATION #5
CITY OF LEE'S SUMMIT**
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
---	-------------	------



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

The Professional Architects seal affixed to this sheet applies only to the material and work shown on this sheet. All drawings, documents or other documents not exhibiting the seal shall not be considered prepared by the architect, and the architect accepts no responsibility for such plans, drawings, or documents not exhibiting this seal.

PROJECT NO: 18225R21001

DATE: 11.21.2022

DRAWN BY: JSP

CHK'D BY: PJM

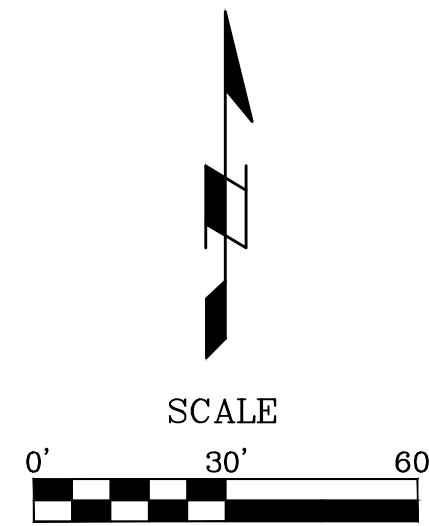
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**STORM SHELTER
CODE SUMMARY**

G-004

PLEASE CONSIDER THE ENVIRONMENT
BEFORE PRINTING THIS

ALTA/NSPS LAND TITLE SURVEY
NW 1/4, SECTION 31, TOWNSHIP 47 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



LEGEND

- △ - SECTION CORNER AS NOTED
- - MONUMENT FOUND AS NOTED
- - SET MONUMENT AS NOTED
- - FOUND 1/2" IRON BAR AT CORNER UNLESS OTHERWISE NOTED
- - SET 1/2" IRON BAR AT CORNER W/ J & J CAP
- (P) - PLATTED DISTANCE
- (M) - MEASURED DISTANCE
- L/S - LANDSCAPED AREA
- B/L - BUILDING SETBACK LINE
- I/E - INGRESS- EGRESS EASEMENT
- U/E - UTILITY EASEMENT
- ⊕ - POWER POLE
- ⊙ - LIGHT POLE
- GUY WIRE
- EM - ELECTRIC METER
- ET - ELECTRIC SECTIONALIZER
- ET - ELECTRIC TRANSFORMER
- ⊕ - TRAFFIC SIGNAL POLE
- WM - WATER METER
- ⊗ - WATER VALVE
- ⚡ - FIRE HYDRANT
- ⊙ - SANITARY MANHOLE
- ⊙ - STORM MANHOLE
- ⊙ - TELEPHONE PEDESTAL
- - BOLLARD
- ⊙ - PARKING STALL
- - SIGN AS NOTED
- ⊙ - FIBER OPTIC MARKER
- OHE - OVERHEAD ELECTRIC
- FO - FIBER OPTIC LINE
- W - UNDERGROUND WATER

CLIENT:
GLM Architecture
Attn: Paul J. Michell
2229 Ward Parkway Ste. 210
Kansas City, Mo 64082

PROPERTY ADDRESS:
801 SW MO-150 HIGHWAY
Lee's Summit, Mo 64082

UTILITY NOTE:

The utilities on this survey are shown based on source information from plans and markings and were combined with observed evidence of utilities pursuant to Section 5.5.4, to develop a view of the underground utilities. However, lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. In addition, in some jurisdictions, 811 or other similar utility locate requests from surveyors may be ignored or result in an incomplete response, in which case the surveyor shall note on the plat or map how this affected the surveyor's assessment of the location of the utilities. Where additional or more detailed information is required, the client is advised that excavation and/or a private utility locate request may be necessary.

GENERAL SURVEY NOTES:

- 1.) The plat of RAINTREE LAKE VILLAGE is recorded in Plat Book 1-89 at Page 66 in the Recorder of Deeds Office in Jackson County, Missouri.
- 2.) Title Report No. MJ117076 dated April 12, 2021 at 8:00 am provided by First American Title Insurance Company.
- 3.) Bearings used on this survey are based on the Missouri State Plane coordinate system from GPS observation.
- 4.) The subject property is located in Zone X, areas determined to be outside the 0.2% annual chance floodplain, as shown on Flood Insurance Rate Map (FIRM) 29095C0532C, effective January 20, 2017.
- 5.) There are NO parking stalls identified on Subject Property at the time of this survey.
- 6.) There were no Wetland delineation at the time of survey.
- 7.) This property is Zoned CP-2, Planned Community Commercial
- 8.) Water utilities are based on the City Map image provided by City of Lee's Summit, Missouri, GIS department.

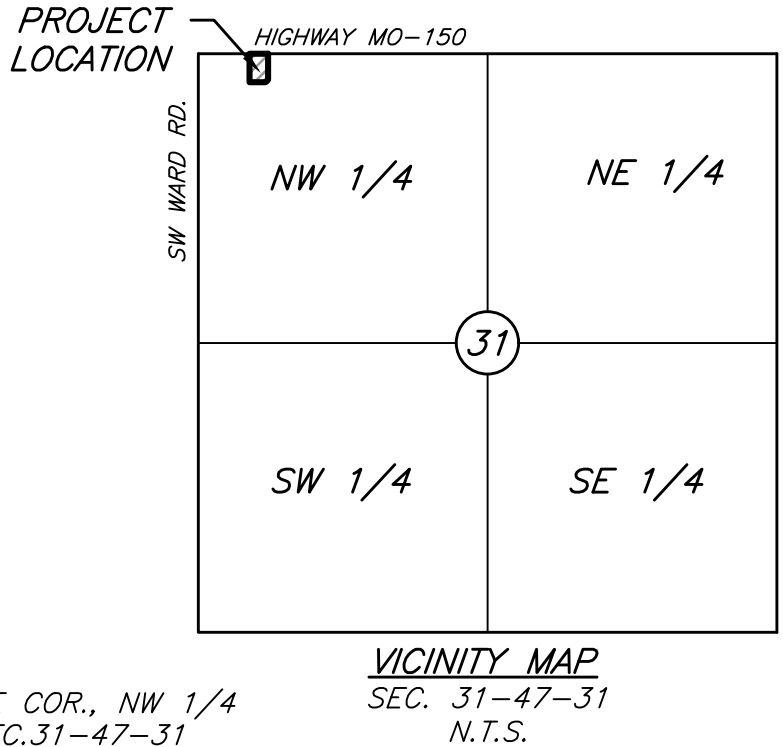
SURVEY CONTROL POINTS

Point #	Northing	Easting	Elevation	Description
1	974540.74	2824139.37	993.44	JA137
41	977854.30	2818488.69	998.56	CHLSD SQ
50	978172.10	2818534.58	1002.12	CP +
51	977856.50	2818545.74	1001.18	CP +
52	977819.61	2818298.73	991.45	CP +

BENCHMARKS:

STATION JA 137: Alum Disk, Located about 0.7 miles South of the intersection of highway 150 and highway 291 of Lee's Summit.

ELEVATION = 993.44



TITLE DESCRIPTION:

Lot 5, RAINTREE LAKE VILLAGE, a subdivision in Lee's Summit, Jackson County, Missouri.

SCHEDULE B - PART II NOTES:

Items 1 - 7 and 14 - 18 are non survey related

8.) Easements, restrictions and setback lines as per plat, recorded in Plat Book 89, Page 66. Affects the the Subject Property and is shown hereon.

9.) The terms and provisions contained in the document entitled "Decree" recorded December 23, 1992, as Document No. Affects the the Subject Property and is Blanket in nature.

10.) The premises described herein lie within the Raintree Lake Village Transportation Development District according to the Circuit Court Case No. 0516-V22158 recorded October 31, 2005 as Document No. 2005I0096572 of Official Records. Affects the Subject Property but has nothing to plat.

11.) Building restrictions and restrictions as to use and occupancy as set forth in Declaration of Restrictions, recorded December 22, 2005, Document No. 2005I0112172, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions, or restrictions violate Title 42, Section 3604 of the United States Codes or any State Statute or Local Ordinance. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status. I1156654 in Book I2335, Page 1479 of Official Records. Affects the Subject Property and is Blanket in nature.

12.) The terms and provisions contained in the document entitled "Cooperative Agreement" recorded October 11, 2006 as Document No. 2006E0105458 of Official Records. Affects the Subject property and is Blanket in nature.

13.) Declaration of Covenants, Conditions and Restrictions, recorded October 29, 1973, Document No. 1167323 in Book I478, Page 989 but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, or national origin to the extent such covenants, conditions or restrictions violate 42USC 3604(c) or any similar state statute or local ordinance. Does not affect the Subject Property.

The above contains provision for among other things, the levy of assessments by Raintree Lake Property Owners Association, Inc., a Missouri not-for-profit corporation, which if unpaid, may become a lien thereon.

Amendment of Declaration of Covenants, Conditions and Restrictions recorded August 16, 1984, as Document No. I584739 in Book I1341, Page 1995. Does not affect the Subject Property.

Declaration of Annexation recorded August 9, 1985, as Document No. I641018 in Book I1449, Page 1536 of Official Records, Affects the Subject Property and is Blanket in Nature, subject to the premises in question to the Declaration of Covenants, Conditions and Restrictions recorded as Document No. I167323 in Book I478, Page 989. Does not affect the Subject Property.

Developer Rights Assignment Agreement filed October 04, 2000 as Document No. 2000I0066205. Affects the Subject Property and is shown hereon.

Certification Concerning Declaration of Covenants, Conditions and Restrictions recorded November 14, 2013, as Document No. 2013E0118167. Affects the Subject Property and is Blanket in nature.

14.) The Premises described herein may lie within the boundaries of a public sewer district, Pursuant to 249.255 and 249.645 Rsmo Supp. 1991. Does not affect the Subject Property.

15.) Rights of parties in possession under unrecorded leases. Does not affect the Subject Property.

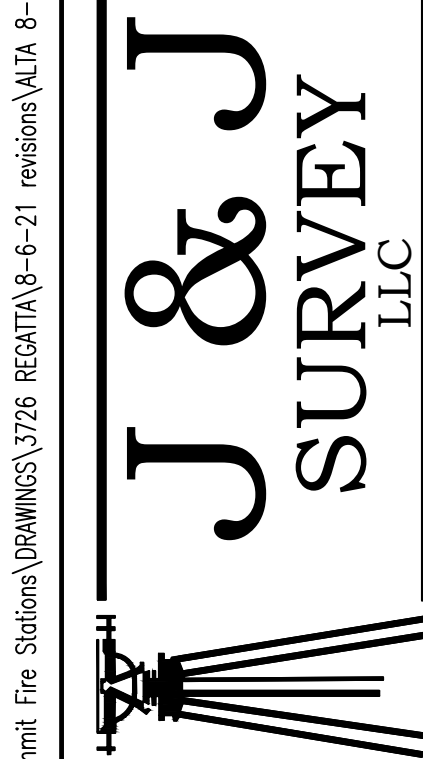
16.) Any lien or right to lien by any Real Estate Brokers or Real Estate Appraisers. Does not affect the Subject Property.

17.) If there has been construction, improvements or repairs to or on the property in the last 12 months, or a portion or all of the loan proceeds will be used for such, then unrecorded mechanics lien coverage will not be furnished unless arrangements are made prior to closing. If the property is 1-4 family residential and we are being asked to extend mechanic's lien coverage (through date downs or otherwise) on a construction loan, a Mechanic's Lien Indemnity Agreement secured by a satisfactory Letter of Credit will need to be furnished to the company. If the transaction is not a residential construction loan, either the aforesaid secured indemnity or satisfactory financial statements, indemnities, affidavits and possibly lien waivers, will need to be furnished to the company. Failure to notify the company in writing before closing will invalidate any mechanic's lien coverage given in the policy. Does not affect the Subject Property.

CERTIFICATION:
To: First American Title Insurance Company, Assured Quality Title Company and Raintree Investors, LLC, a Missouri limited liability company.
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 5, 7a, 8, 9, 11b, 13 and 16 of Table A thereof. The field work was completed on the 16th day of July, 2021.



Location: S:\21071 - Lees Summit Fire Stations\DRAWINGS\3736 REGATTA\8-6-21 revisions\ALTA 8-6-21 Regatta.dwg Aug 12, 2021-11:23am



08-04-21

08-12-21

INITIAL SUBMITTAL

REVISED PER COMMENTS

1

2

SHEET 1 OF 1

GS001

E

D

C

B

A

1. ALL WORK SHALL CONFORM TO 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI.

2. DESIGN LOADS

A. ROOF LOAD (5 PSF NET UPLIFT)

1. DEAD LOAD TOP CHORD

2. DEAD LOAD BOT. CHORD

3. LIVE LOAD TOP CHORD

4. LIVE LOAD BOT. CHORD

B. ROOF LOAD (STORM SHELTER)

1. DEAD LOAD

2. LIVE LOAD

C. FLOOR LOADS

1. DEAD LOAD

2. LIVE LOAD

D. STAIR LOADS

1. DEAD LOAD

2. LIVE LOAD

E. ROOF SNOW LOAD

1. FLAT ROOF SNOW LOAD, P_f

2. SNOW EXPOSURE FACTOR, C_e

3. SNOW LOAD IMPORTANCE FACTOR, I

4. THERMAL FACTOR, C_t

5. DRIFTING

F. WIND LOADS

1. BASIC WIND SPEED (3 SECOND GUST)

2. WIND IMPORTANCE FACTOR, I

3. BUILDING CATEGORY

4. WIND EXPOSURE

5. COMPONENTS AND CLADDING DESIGN VALUE (U.N.O.)

G. SEISMIC LOADS

1. CATEGORY

2. S_s=

3. S_i=

4. S_{0s}=

5. S_{0i}=

6. SEISMIC IMPORTANCE FACTOR, I

7. SITE CLASS

8. SEISMIC DESIGN CATEGORY

9. SEISMIC FORCE RESISTING SYSTEMS; STEEL ORDINARY MOMENT FRAMES

10. RESPONSE MODIFICATION COEFFICIENT, R

11. SEISMIC RESPONSE COEFFICIENTS, C_s

12. DESIGN BASE SHEAR

13. ANALYSIS PROCEDURE; EQUIVALENT LATERAL FORCE PROCEDURE.

H. WIND LOADS - STORM SHELTER

1. SHELTER TYPE

2. BASIC WIND SPEED (3 SECOND GUST)

3. WIND IMPORTANCE FACTOR, I

4. BUILDING CATEGORY

5. WIND EXPOSURE

6. INTERNAL PRESSURE COEFFICIENT; GCPI

7. WALL COMPONENTS & CLADDING (U.N.O.)

8. ROOF COMPONENTS & CLADDING (U.N.O.)

9. WIND UPLIFT

10. TOPOGRAPHIC FACTOR; K_{zt}

11. DIRECTIONALITY FACTOR; K_d

12. THE WIND DESIGN CONFORMS TO THE PROVISIONS OF THE ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS PER THE ICC 500 2020.

13. STRUCTURE IS NOT LOCATED IN A FLOOD ZONE.

3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO FABRICATION. REFERENCE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

4. IF DISCREPANCIES EXIST BETWEEN SPECIFICATIONS, CONTRACT DRAWINGS, AND/OR SHOP DRAWINGS NOTIFY THE ENGINEER OF RECORD.

5. THE CONTRACTOR SHALL REVIEW DRAWINGS FROM ALL OTHER DISCIPLINES FOR PERTINENT MISC. ITEMS OR INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED.

6. THE BUILDING IS NOT STRUCTURALLY STABLE UNTIL ALL CONNECTIONS, FRAMING, SHEAR WALLS, PERMANENT BRACING, AND EXTERIOR LOAD-BEARING WALLS ARE COMPLETE AND HAVE ACHIEVED THEIR RESPECTIVE DESIGN STRENGTHS. CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING STRUCTURAL STABILITY DURING ERECTION AND CONSTRUCTION. TEMPORARY BRACING SYSTEMS ARE NOT TO BE REMOVED UNTIL STRUCTURAL WORK IS COMPLETE.

7. PROVIDE ADEQUATE SHORING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADS DUE TO CONSTRUCTION. DO NOT BACKFILL UNTIL CONCRETE HAS CURED 14 DAYS.

9. FOUNDATIONS

A. FOUNDATIONS ARE DESIGNED TO BEAR ON 2000 PSF FOR STRIP FOOTINGS ON SOIL AND 2000 PSF FOR SPREAD FOOTINGS ON SOIL PER GEOTECH REPORT # AOG 21-126E-1 BY ALPHA OMEGA GEOTECHS.

B. CONTRACTOR SHALL REMOVE EXISTING FOOTINGS AND FOUNDATIONS THAT ARE LOCATED WITHIN THE FOOTPRINT OF THE NEW BUILDING.

C. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAL REPORT OR WHEN DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF BEARING CAPACITY.

10. CONCRETE

A. CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS.

B. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:

1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS: 4000 PSI (w/c MAX 0.45)

2. SLAB ON GRADE: 4000 PSI (w/c MAX 0.42)

3. ELEVATED COMPOSITE SLAB: 4000 PSI (w/c MAX 0.42)

4. REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.

C. SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH.

D. IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMIXTURES.

E. CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES.

F. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-145) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY IF ADMIXTURE IS TO BE ADDED IN THE FIELD IS SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (I.E. 5 GALLON BUCKET).

G. CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (+/- 1%) ENTRAINED AIR BY VOLUME.

H. CHAMFER ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE.

I. ALL CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL BE CUT TO 1/3 OF DEPTH WHEN USING WET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING EARLY-ENTRY DRY-CUT PROCESS. CUT JOINTS AS SOON AS APPLICABLE PER PROCESS USED AFTER CONCRETE HAS BEEN PLACED WITHOUT DISLOGGING AGGREGATE, OR USE A KEVED COLD JOINT.

J. CUT SLABS-ON-GRADE INTO AREAS OF APPROXIMATELY 225 SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS POSSIBLE. LENGTH TO WIDTH RATIOS OF JOINTED PANELS SHALL NOT EXCEED 1.5:1. COORDINATE LOCATIONS OF CONTROL JOINTS WITH ARCHITECT.

K. CONTROL JOINTS IN WALLS SHALL BE PLACED AT 20'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. LOCATE JOINTS BESIDE PIERS INTEGRAL WITH WALLS, NEAR CORNERS, AND IN CONCEALED LOCATIONS WHERE POSSIBLE. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CONTROL JOINTS AT CONTRACTOR'S DISCRETION. COORDINATE LOCATION OF CONTROL JOINTS WITH ARCHITECT.

L. PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THOROUGHLY CHECKED AND COORDINATED ALL DIMENSIONS, ELEVATIONS, OPENINGS, RECESS, AND BLOCKOUTS AS SHOWN ON ANY CONTRACT DRAWINGS. IN THE EVENT ERRORS, CONFLICTS, OR OMISSIONS EXIST, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ARCHITECT OR ENGINEER FOR NECESSARY CORRECTIVE ACTION.

M. EMBEDDED ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR PRIOR TO PLACING CONCRETE.

N. ANCHOR RODS AND ANCHOR BOLTS SHALL BE HELD IN PLACE WITH A RIGID TEMPLATE

O. HORIZONTAL JOINTS BEYOND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUCTED WITHOUT THE APPROVAL OF THE ARCHITECT AND ENGINEER.

11. REINFORCING STEEL

A. ALL REINFORCING SHALL BE ASTM A615 GRADE 60, EXCEPT WELDED REINFORCING WHICH SHALL BE ASTM A706 GRADE 60.

B. ALL WELDED WIRE FABRIC SHALL BE ASTM A82 COLD DRAWN WIRE.

C. ALL ACCESSORIES FOR SUPPORTING REINFORCING SHALL BE GALVANIZED OR HAVE PLASTIC-COATED FEET.

D. PROVIDE CORNER BARS AT THE EXTERIOR FACE OF ALL WALL AND FOOTING CORNERS EQUAL TO HORIZONTAL BARS.

E. REINFORCING SHALL BE DETAILED, FABRICATED, PLACE, AND SUPPORTED IN ACCORDANCE WITH ACI 315, LATEST APPLICABLE EDITION.

F. STANDARD COVERAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

1. PERMANENTLY EXPOSED TO WEATHER

A. CAST AGAINST EARTH

B. IN CONTACT WITH WATER

C. FORMED

2. NOT EXPOSED TO EARTH OR WEATHER

A. SLABS AND WALLS

B. BEAMS AND COLUMNS

G. SPLICE LENGTH

1. 3000 PSI CONCRETE

A. NON-COATED

B. EPOXY COATED

2. 4000 PSI CONCRETE

A. NON-COATED

B. EPOXY COATED

3. 5000 PSI CONCRETE

A. NON-COATED

B. EPOXY COATED

H. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN AND NOTED ON THE CONTRACT DRAWINGS OR PERMITTED BY THE ENGINEER OF RECORD.

I. ALL REINFORCEMENT AND EMBEDDED ITEMS INCLUDING PLATES AND ANCHOR RODS SHALL BE ACCURATELY PLACED, ADEQUATELY SUPPORTED, AND SECURED AGAINST DISPLACEMENT BEFORE CONCRETE IS PLACED. NEITHER REINFORCEMENT NOR EMBEDDED ITEMS SHALL BE PLACED INTO FRESHLY PLACED CONCRETE UNLESS APPROVED BY THE ENGINEER OF RECORD.

12. MASONRY

A. MASONRY UNIT COMPRESSIVE STRENGTH (F_m) = 1500 PSI. MORTAR - TYPE S.

B. LINTELS SHALL BE STEEL BEAMS OR MASONRY BOND BEAMS AS SHOWN ON THE PLANS. OPENINGS LESS THAN 4'-0" WIDE SHALL BE A BOND BEAM WITH (2) #5 CONTINUOUS EXTENDING PAST OPENINGS A MIN. OF 2'-0".

C. GROUT ALL REINFORCED CELLS AND CELLS BELOW GRADE SOLID.

D. PLACE A BOND BEAM WITH/ (2) #5 CONTINUOUS AT THE TOP OF WALLS & 8'-0" O.C. VERTICALLY.

E. REINFORCE 8" CMU WALLS WITH #5 @ 32" O.C. VERT. AND 12" CMU WALLS WITH #5 @ 24" O.C. VERT. UNLESS NOTED OTHERWISE. IN ADDITION, REINFORCE WALL CORNERS AND JAMBS OF WINDOWS AND DOORS WITH (2) #5 EXTENDING PAST OPENINGS A MIN. OF 2'-0".

F. BRACE THE TOPS OF PARTITION WALLS TO THE UNDERSIDE OF DECK.

13. STRUCTURAL STEEL

A. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST APPLICABLE EDITION AND AISC CODE OF STANDARD PRACTICE.

B. ALL STRUCTURAL STEEL FOR WIDE FLANGE SHALL BE A992 GRADE 50 UNLESS NOTED OTHERWISE. ALL ANGLES, PLATES AND CHANNELS SHALL BE ASTM A36 UNLESS NOTED OTHERWISE. ALL RECTANGULAR AND ROUND HSS SHAPES SHALL BE ASTM A500, GRADE B.

C. ALL BOLTS SHALL BE 3/4" Ø A-325 BOLTS WITH HEAVY HEX HEADS UNLESS NOTED OTHERWISE. ALL CONNECTIONS SHALL HAVE A MINIMUM OF (2) 3/4" Ø BOLTS, BEARING TYPE CONNECTIONS ONLY.

D. ALL STRUCTURAL STEEL WELDS IN THE SHOP OR IN THE FIELD SHALL BE PERFORMED BY A QUALIFIED WELDER AND SHALL CONFORM TO THE CURRENT REQUIREMENTS OF A.W.S.

E. SHOP WELDED AND FIELD BOLTED CONNECTIONS ARE PREFERRED UNLESS NOTED OTHERWISE.

F. ALL STEEL EXPOSED TO THE EXTERIOR, EXHIBITS, POOLS, AND LSS AREAS SHALL BE HOT-DIP GALVANIZED AND PAINTED PER ARCHITECT UNLESS NOTED OTHERWISE.

G. THE CONTRACTOR SHALL PROVIDE SHELF ANGLES, GLASS SUPPORTS, LINTELS, AND OTHER MISC. STEEL AS SHOWN ON THESE DRAWINGS AS REQUIRED TO PROVIDE SUPPORT (STABILIZATION) AROUND AND THROUGHOUT THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISC. STEEL DETAILS.

14. COLD-FORMED STEEL

A. ALL LIGHT GAGE METAL FRAMING AND CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISI (SPECIFICATION FOR THE SIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS) (AND NAAMM ML/SFA540 LIGHTWEIGHT STEEL FRAMING SYSTEMS MANUAL)

B. ALL LIGHT GAGE METAL FRAMING SHOWN IN THESE DOCUMENTS SHALL BE IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

C. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A-655 STEEL MATERIAL AND SHALL HAVE A MINIMUM YIELD STRESS OF 33 KSI.

D. WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.3 - LATEST EDITION, STRUCTURAL WELDING CODE, SHEET STEEL.

E. SUGGESTED WELD METAL AND PROCESS FOR SHOP WELDING ARE, 70 KSI WELD METAL STRENGTH, SUGGESTED METHODS FOR FIELD WELDING, 1/8" E70XX ELECTRODE-SMAW OR GASLESS M16.

F. MINIMUM WELD THROAT THICKNESS (t) MUST MATCH OR EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE.

G. WEB STIFFENERS FOR STUD JOISTS SHALL BE PROVIDED AT ALL REACTION POINTS, INTERMEDIATE CONCENTRATED LOADS, AND WHERE INDICATED ON THE DRAWINGS.

H. SEQUENCING OF WELDS SHALL BE SO AS TO AVOID DISTORTION OF MEMBERS.

I. REPLACE ALL MEMBER WHEN BURN THROUGH DURING WELDING.

J. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED ON ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.

K. NO SPLICES IN STUDS, JOISTS, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE WITHOUT PRIOR ENGINEERING REVIEW AND SPECIFIC DETAILS FOR ANY SUCH SPLICE.

L. TOP AND BOTTOM TRACKS TO MATCH GAGE OF STUD.

15. POST CONSTRUCTION ANCHORS

A. POST INSTALLED ANCHORS ARE NOT TO BE SUBSTITUTED FOR ANCHORS SHOWN ON THE DRAWINGS. IF CAST IN PLACE ANCHOR IS DETERMINED TO BE OUT OF TOLERANCE OR OMITTED, CONTRACTOR MUST GENERATE A REQUEST FOR INFORMATION IN REGARDS TO THE SOLUTION. THIS SECTION IS NOT MEANT AS A DIRECT SUBSTITUTION FOR CAST IN PLACE ANCHORS.

B. MECHANICAL ANCHORS SHALL BE SIMPSON TITEN HD ANCHORS UNLESS NOTED OTHERWISE. MINIMUM EMBEDMENT FOR ANCHORS ARE AS FOLLOWS UNLESS NOTED OTHERWISE.

1. 1/2" Ø ANCHORS

2. 5/8" Ø ANCHORS

3. 3/4" Ø ANCHORS

C. EPOXY ANCHORS IN HOLLOW MASONRY SHALL USE HILTI HY 20 ADHESIVE WITH SCREEN TUBES UNLESS NOTED OTHERWISE.

D. EPOXY ANCHORS IN CONCRETE SHALL USE HILTI HY 150 ADHESIVE. MINIMUM EMBEDMENT FOR ANCHORS ARE AS FOLLOWS UNLESS NOTED OTHERWISE.

1. 1/2" Ø ANCHORS

2. 5/8" Ø ANCHORS

3. 3/4" Ø ANCHORS

4. 1" Ø ANCHORS

E. EMBEDMENT DEPTH SHALL BE DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE.

F. OBSERVATION AND VERIFICATION OF EMBEDMENT HOLE CLEANING, DEPTH, AND ANCHOR INSTALLATION IS REQUIRED FOR ALL EPOXY ANCHORS.

G. EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, CURRENT WITH THE REQUIREMENTS OF THE PROJECT.

16. STRUCTURAL ENGINEER SITE OBSERVATIONS

A. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCES.

B. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR AN OTHER PERSONS PERFORMING ANY OF THE WORK, OR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

C. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF LEIGH & O'KANE L.L.C. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

17. SUBMITTALS

A. ALL SHOP DRAWINGS AND SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL. ENGINEER'S REVIEW OF SHOP DRAWINGS IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF COMPONENTS AND MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE DESIGN DRAWINGS, QUANTITIES, DIMENSIONAL ERRORS, OR OMISSIONS IN THE SHOP DRAWINGS.

B. ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS OF THESE CONTRACT DOCUMENTS.

C. SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF EACH MEMBER AND ITS CONNECTIONS. DETAIL DRAWINGS ARE TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI FOR THE FOLLOWING ITEMS.

1. LIGHT GAGE METAL FRAMING

2. COLD FORMED BAR JOISTS

D. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING ITEMS.

1. CONCRETE MIX DESIGN AND MATERIALS

2. CONCRETE REINFORCING STEEL

3. MASONRY REINFORCING STEEL

4. STRUCTURAL STEEL

5. LIGHT GAGE METAL FRAMING

6. COLD FORMED ROOF, FLOOR JOISTS AND JOIST GIRDERS

E. PROVIDE A FINAL, "FOR CONSTRUCTION" SET OF ALL SHOP DRAWINGS TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION OF THOSE ITEMS.

18. SPECIAL INSPECTIONS

A. THE FOLLOWING MINIMUM ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CODE. LOCAL CITY MAY REQUIRE ADDITIONAL SPECIAL INSPECTIONS.

1. CONCRETE PLACING

2. CONCRETE REINFORCING

3. STEEL BOLTING

4. STEEL WELDING

5. BOLTS EMBEDDED IN CONCRETE / POST-INSTALLED ANCHORS

6. ANCHOR RODS

7. ROOF DIAPHRAGM ATTACHMENT

8. MASONRY

9. SOIL VERIFICATION

10. STEEL FRAME

B. THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

C. STRUCTURAL OBSERVATIONS SHALL BE PROVIDED DURING CONSTRUCTION OF THE SHELTER BY A REGISTERED PROFESSIONAL.

HATCH PATTERN KEY	
	= CONCRETE IN SECTION
	= EARTH IN SECTION
	= EPOXY IN SECTION
	= EXISTING IN PLAN AND SECTION
	= GRANULAR FILL IN SECTION
	= GRATING IN PLAN AND SECTION
	= GROUT IN SECTION
	= INSULATION IN SECTION
	= OPENINGS IN PLAN
	= PLYWOOD IN SECTION
	= SNOW DRIFT LOADING IN PLAN
	= STEEL IN SECTION
	= TOPPING IN SECTION
	= WOOD END GRAIN IN SECTION
	= WOOD FACE GRAIN IN SECTION

STANDARD ABBREVIATIONS

ALT.	ALTERNATE
A.B.	ANCHOR BOLT
ARCH.	ARCHITECT
@	AT
BM.	BEAM
BOT.	BOTTOM
B.O.	BOTTOM OF
BLDG.	BUILDING
CL.	CENTER LINE
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
C.J.	CONTROL JOINT
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DWG(S)	DRAWING(S)
EA	EACH
ELEV.	ELEVATION
EL.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXIST.	EXISTING
EXT.	EXTERIOR
F.S.	FAR SIDE
FIN.	FINISH
FLR.	FLOOR
FTG.	FOOTING
FOUND.	FOUNDATION
GALV.	GALVANIZED
GYP.	GYPSUM
H.S.	HEADED STUD
HI.	HIGH
HORIZ.	HORIZONTAL
INSUL.	INSULATION
INT.	INTERIOR
LOC.	LOCATION
LLH	LONG LEG HORIZONTAL
LLO	LONG LEG OUT
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LO	LOW
MSRY.	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MIR.	MIRRORED
N.S.	NEAR SIDE
N.A.	NOT APPLICABLE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
PL.	PLATE
R.	RADIUS
RE.	REFERENCE
REINF.	REINFORCING
REQ'D	REQUIRED
SCHED.	SCHEDULE
SEC.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SQ.	SQUARE
S.S.	STAINLESS STEEL
STL.	STEEL
T&B	TOP & BOTTOM
T.O.	TOP OF
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W/	WITH
W/O	WITHOUT



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FIRE STATION #5
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISONS:		
#	Description	Date
1	ASB 01	11/16/2022



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

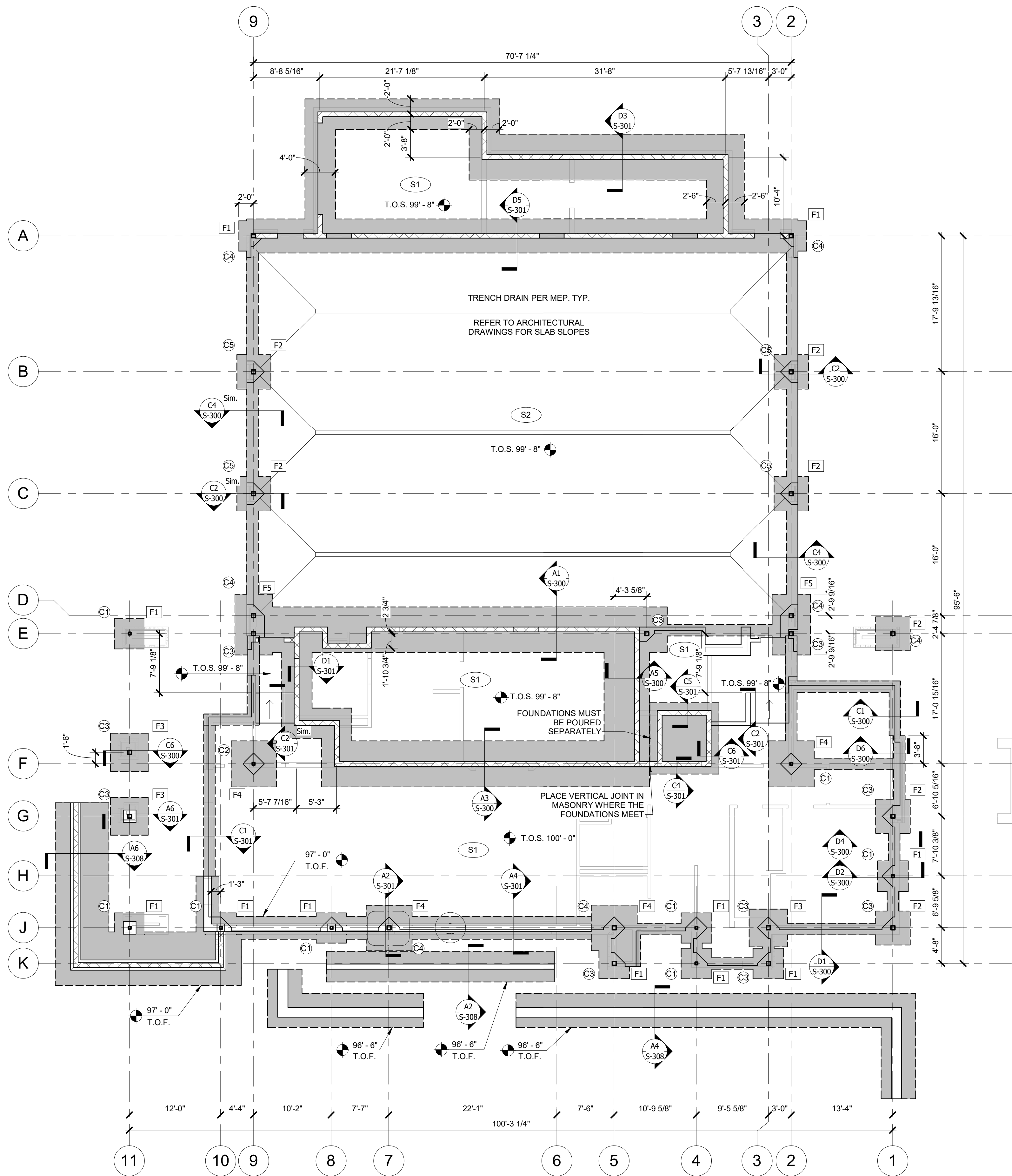
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GENERAL NOTES

S-001

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A1 APP BAY FF
1/8" = 1'-0"

FOUNDATION PLAN NOTES:

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 CONSTRUCTION ANCHORS, CARE MUST BE TAKEN TO AVOID ALL REINFORCING.
8. REFER TO ARCHITECTURAL FOR NON-LOAD BEARING WALL LOCATIONS.
9. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR RETAINING WALL AND RAMP LOCATION AND ELEVATION INFORMATION.
10. 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 FOUNDATION SCHEDULE				
MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT
F1	4' - 0"	4' - 0"	2' - 4"	#6 @ 8" O.C. EW TB
F2	4' - 6"	4' - 6"	2' - 4"	#6 @ 8" O.C. EW TB
F3	5' - 0"	5' - 0"	2' - 4"	#6 @ 8" O.C. EW TB
F4	6' - 0"	6' - 0"	2' - 4"	#6 @ 8" O.C. EW TB
F5	8' - 0"	5' - 0"	2' - 4"	#6 @ 8" O.C. EW TB

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.



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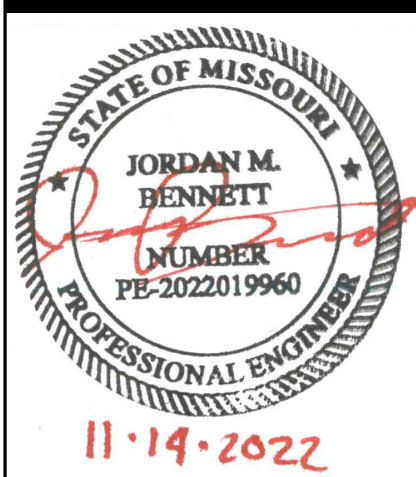
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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

REVISIONS:

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

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**FOUNDATION
PLAN**

S-100

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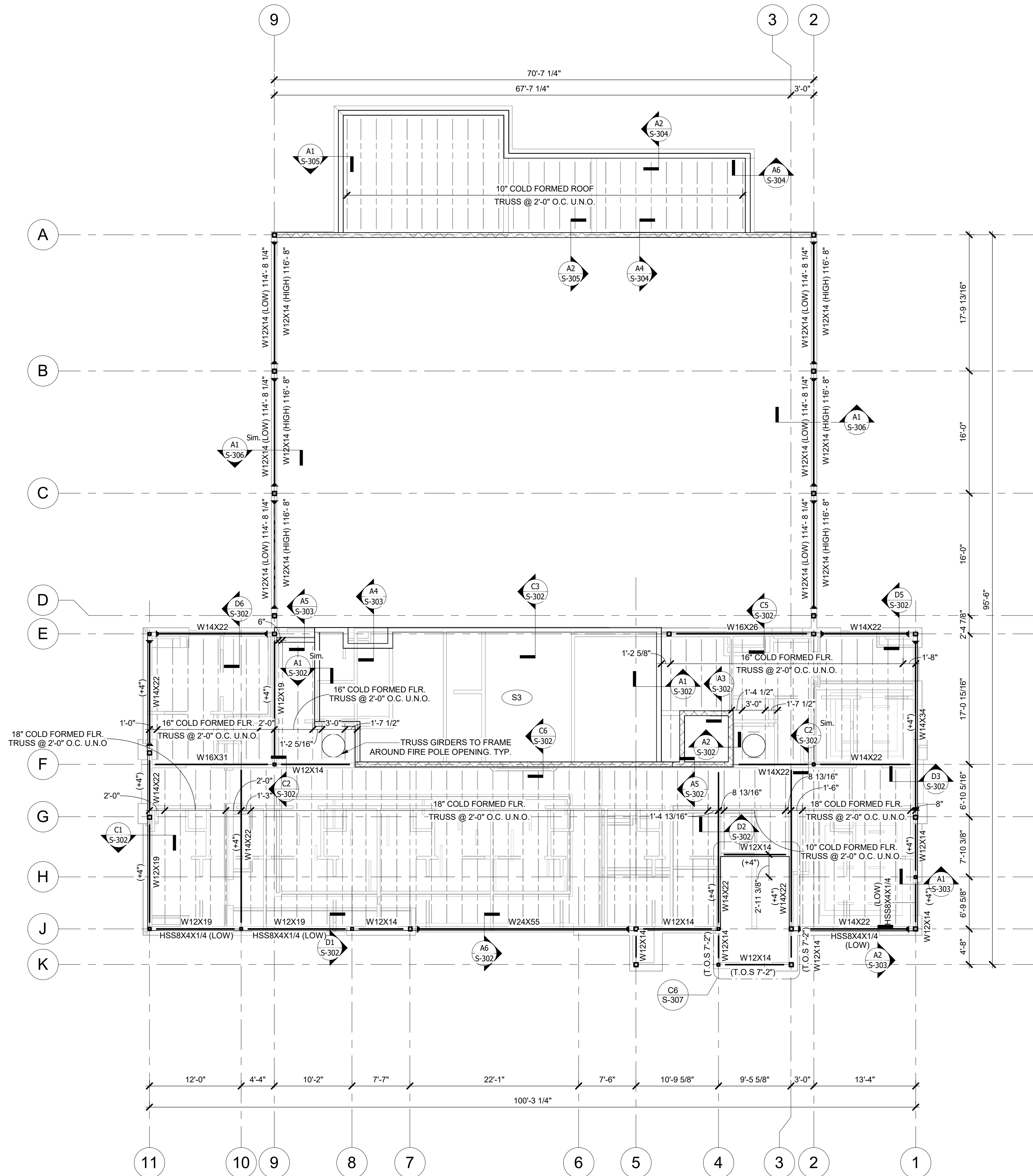
E

D

C

B

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.
5. NON-LOAD BEARING WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF FLOOR FRAMING.
6. COLD FORMED FLOOR JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
7. COLD FORMED JOISTS TO BE 16 GA. METAL OR THICKER AS REQUIRED BY DESIGN.
8. SPECIFIED TRUSS SPACINGS ARE A MAXIMUM. TRUSSES CAN BE SHIFTED AS NEEDED AS LONG AS THE MAX SPACING IS UPHELD.

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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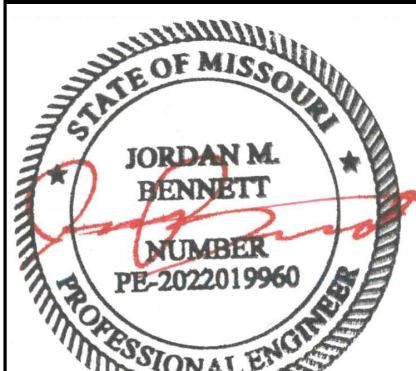
FIRE STATION #5
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

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REVISIONS:

#	Description	Date
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11.14.2022

PROJECT NO: 18225R21001

DATE: 11.16.2022

DRAWN BY: JMB

CHKD BY: WNH

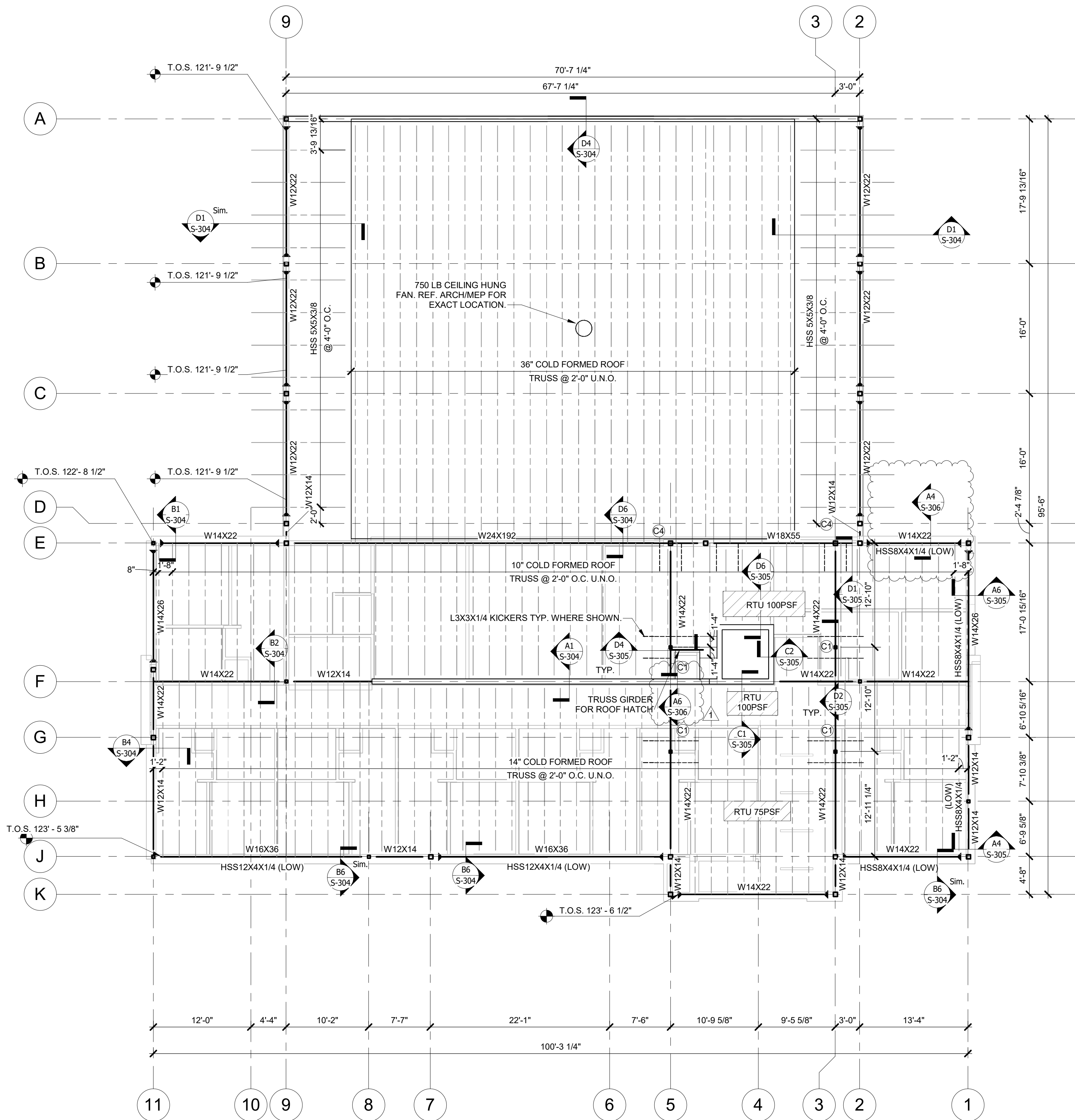
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LEVEL 2
FRAMING PLAN

S-101

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ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.5B 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 NEEDED AS LONG AS THE MAX SPACING IS UPHELD.

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



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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

#	Description	Date
1	ASB 01	11/16/2022



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

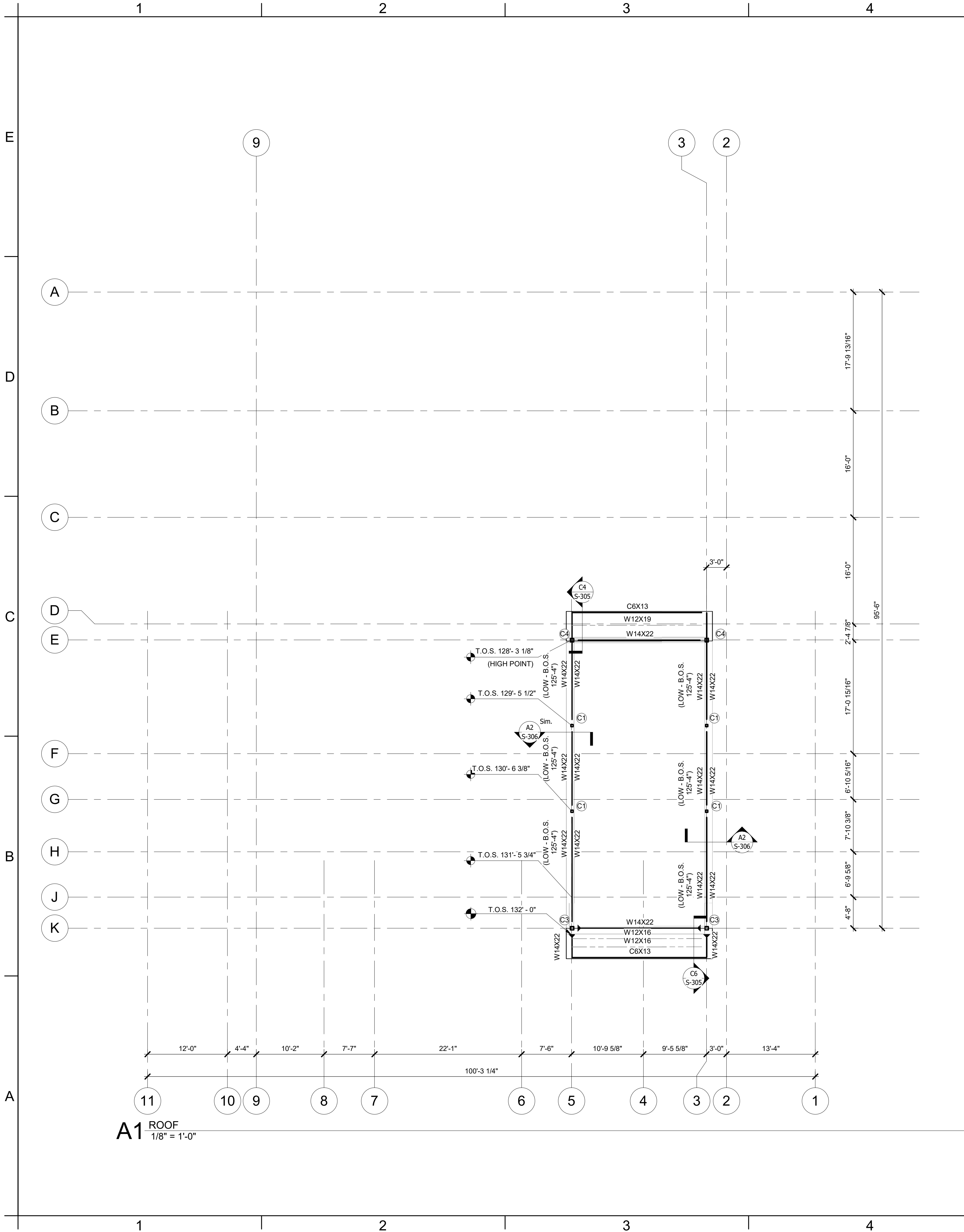
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**LOW ROOF
FRAMING PLAN**

S-103


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FILE PATH: BM 360//182252R21001_LeesSummitFireStation_#4 and #5LSMO_FIRE STATIONS_STRUCT_F55.vt



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
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 NEEDED AS LONG AS THE MAX SPACING IS UPHELD.



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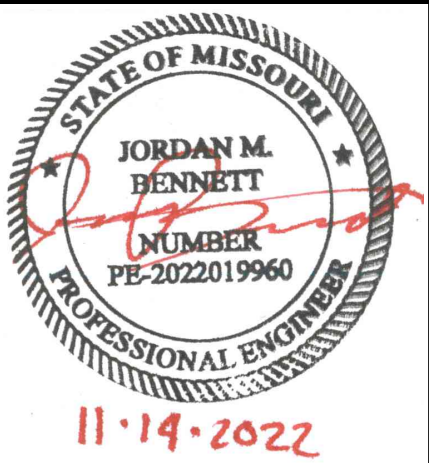
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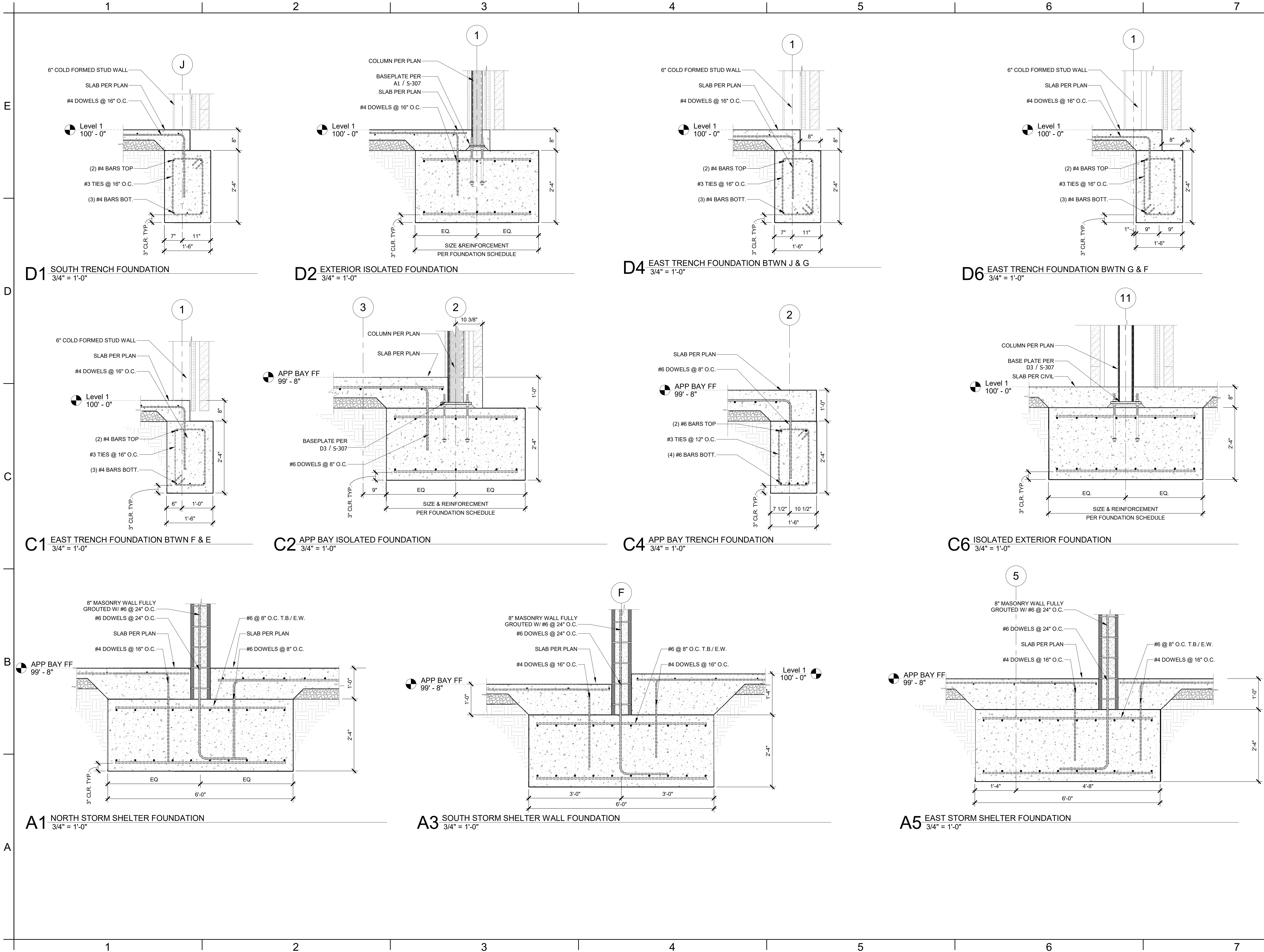
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**HIGH ROOF
FRAMING PLAN**

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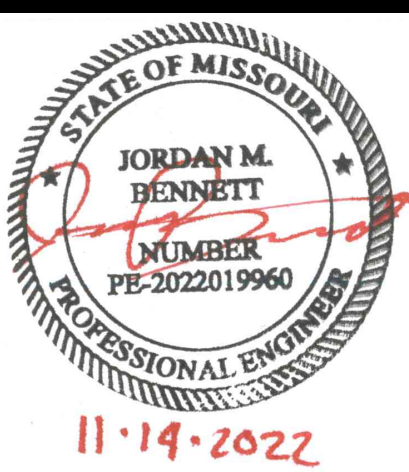
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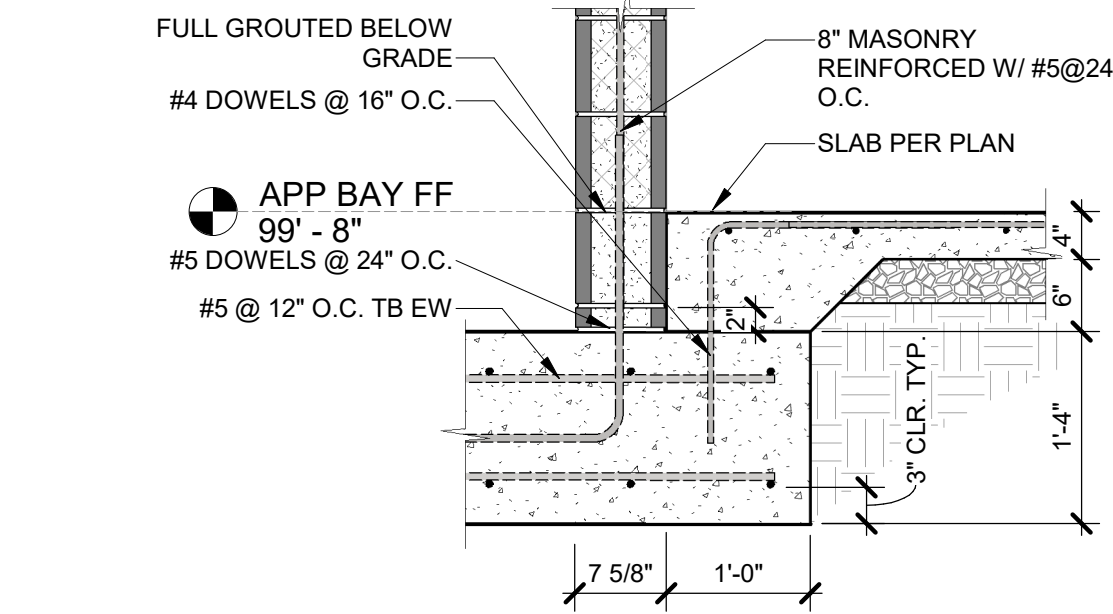
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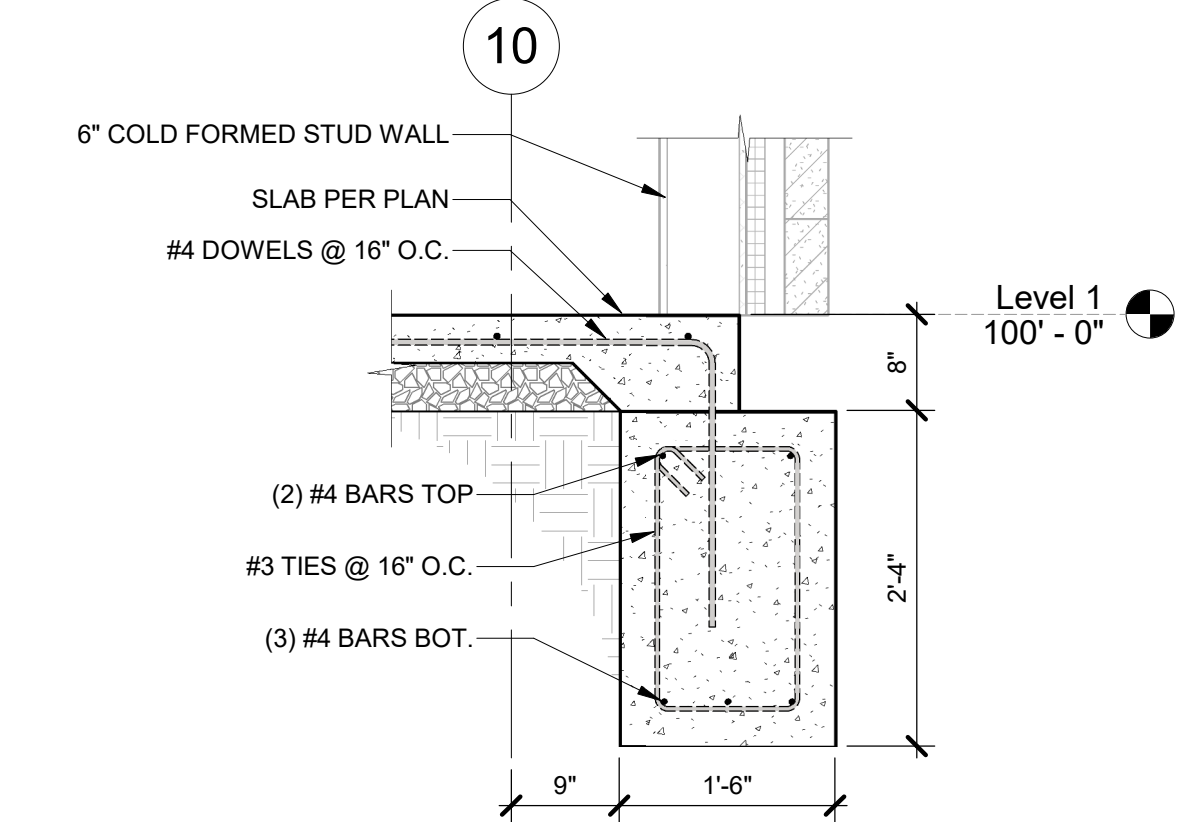
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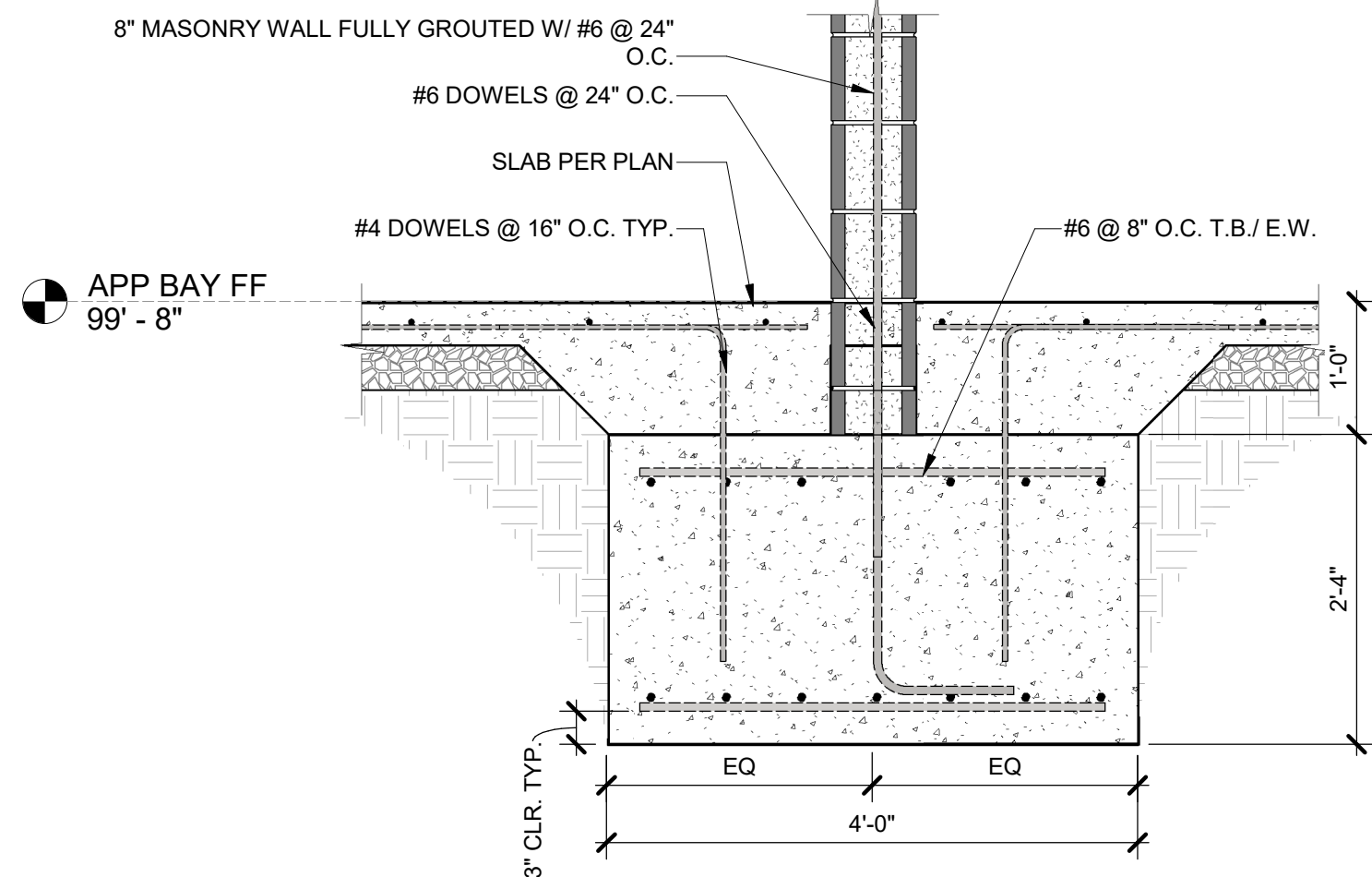
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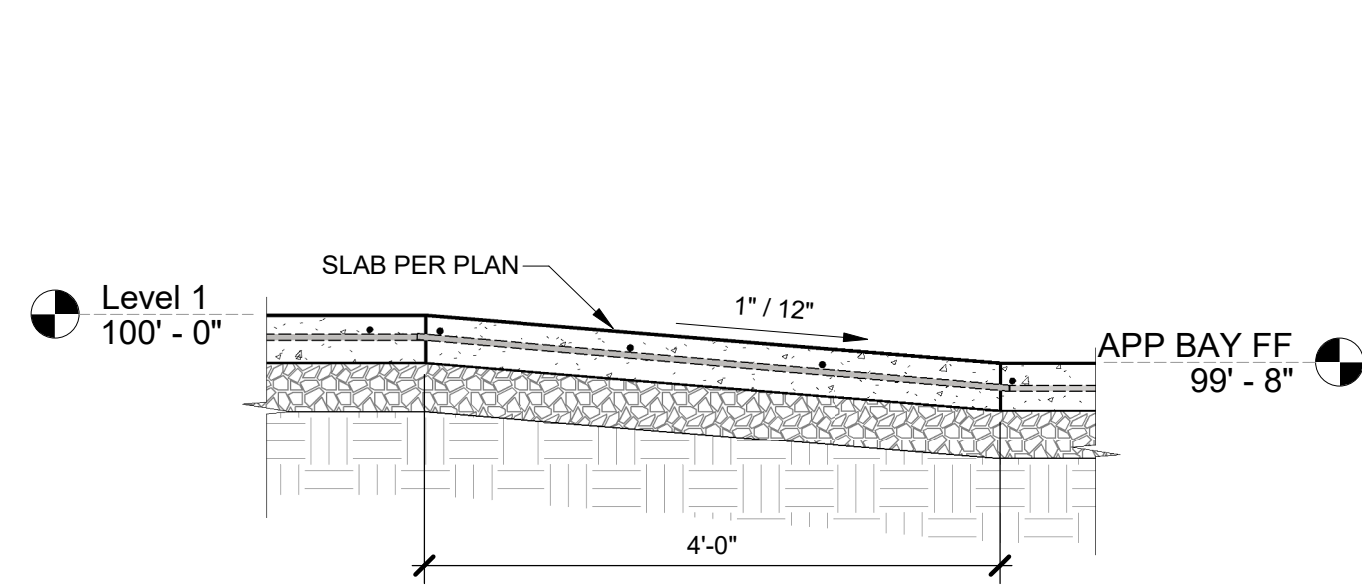
C5 SECTION
3/4" = 1'-0"



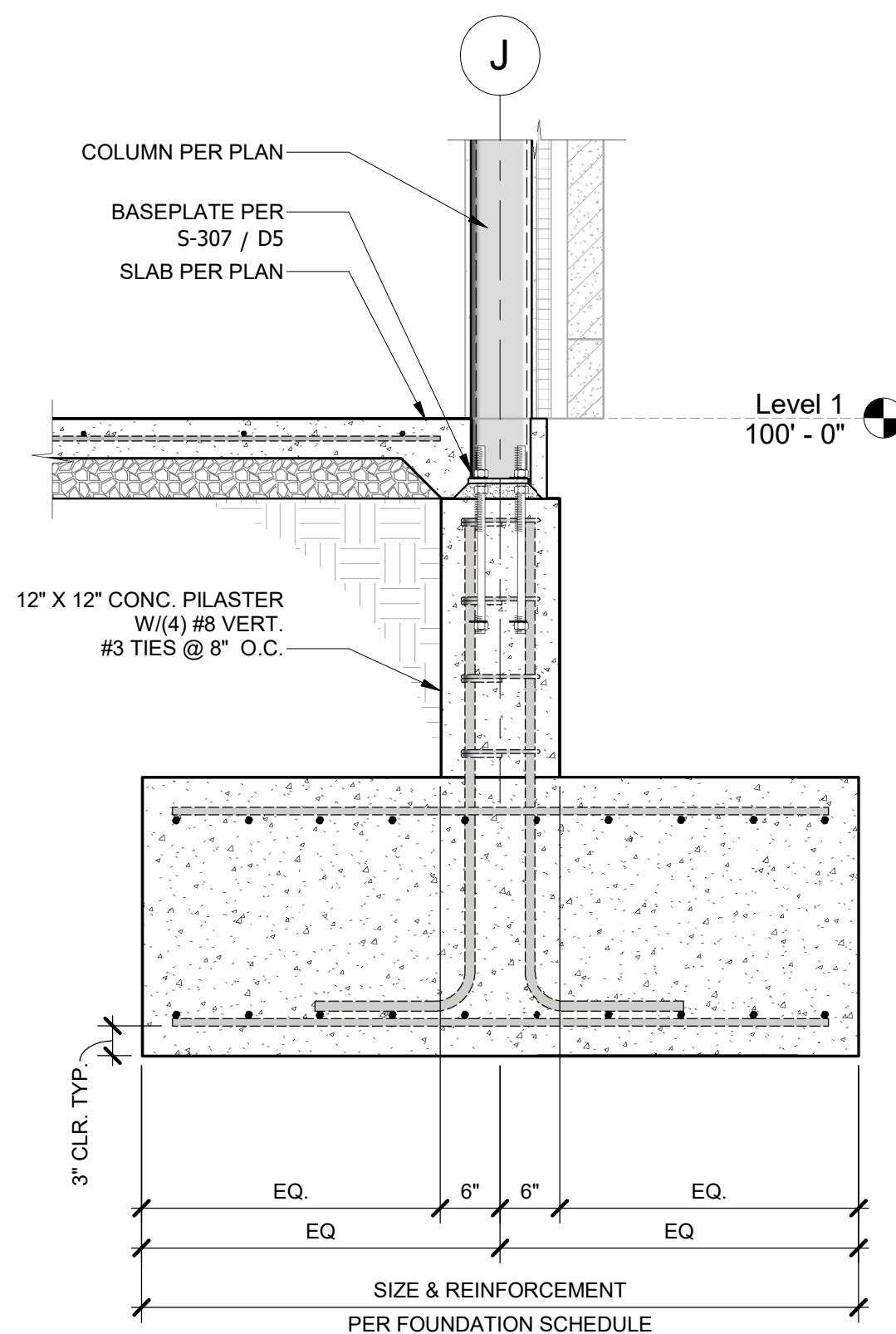
C1 WEST TRENCH FOUNDATION
3/4" = 1'-0"



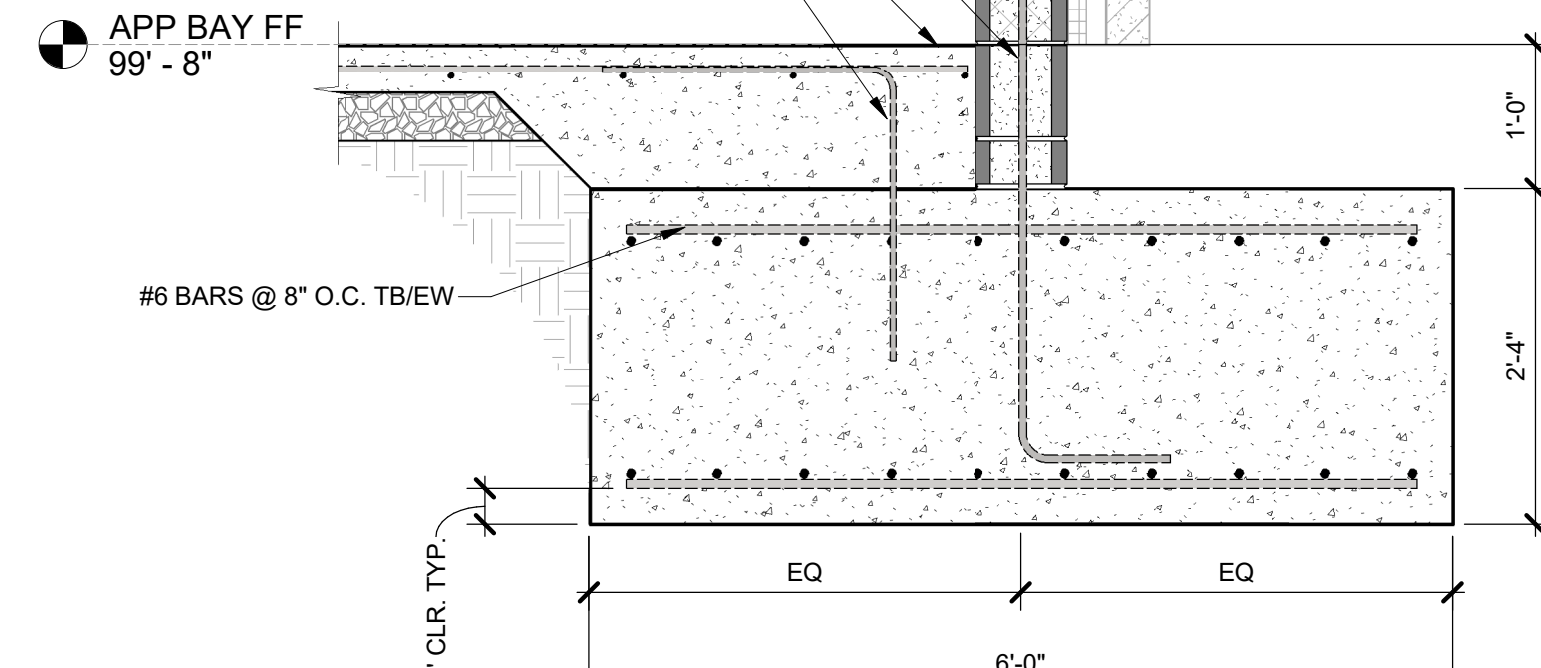
D1 WEST STORM SHELTER FOUNDATION
3/4" = 1'-0"



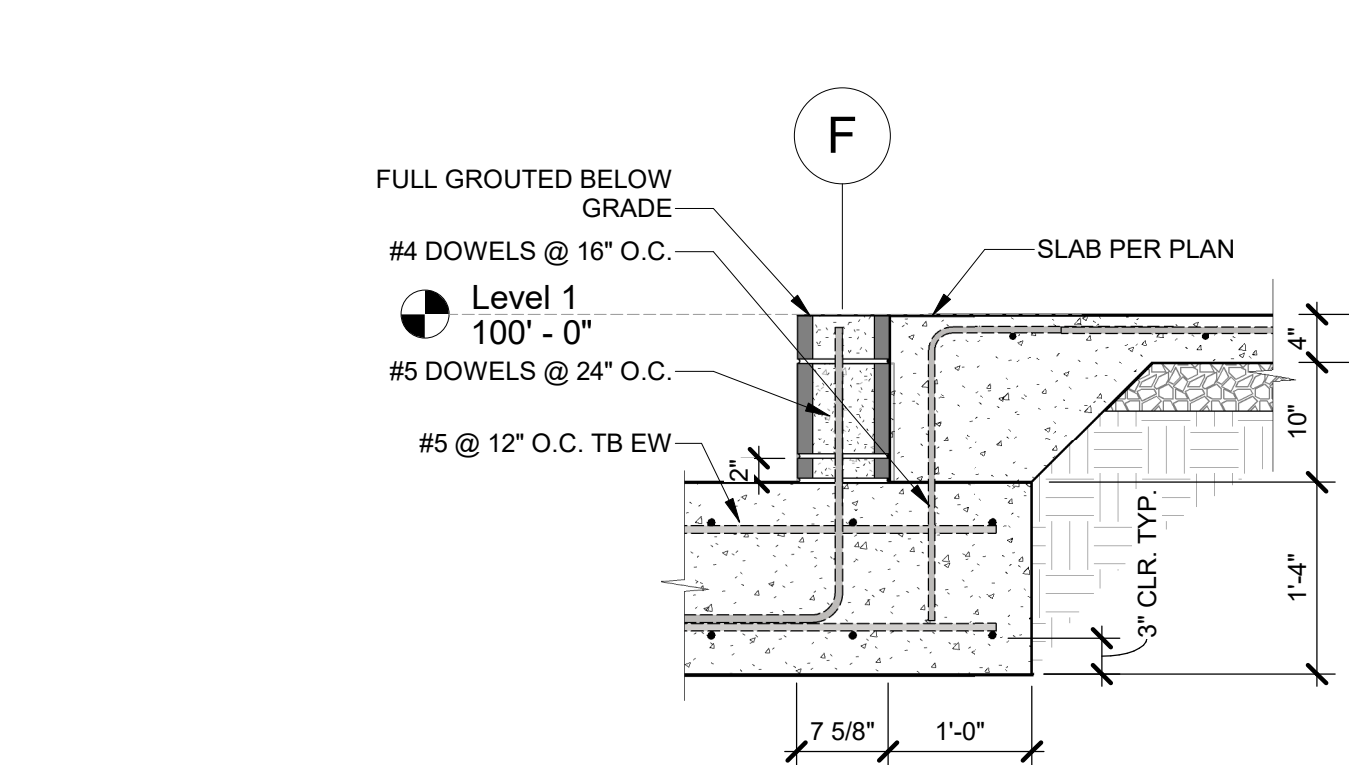
C2 FLOOR SLAB RAMP SECTION
3/4" = 1'-0"



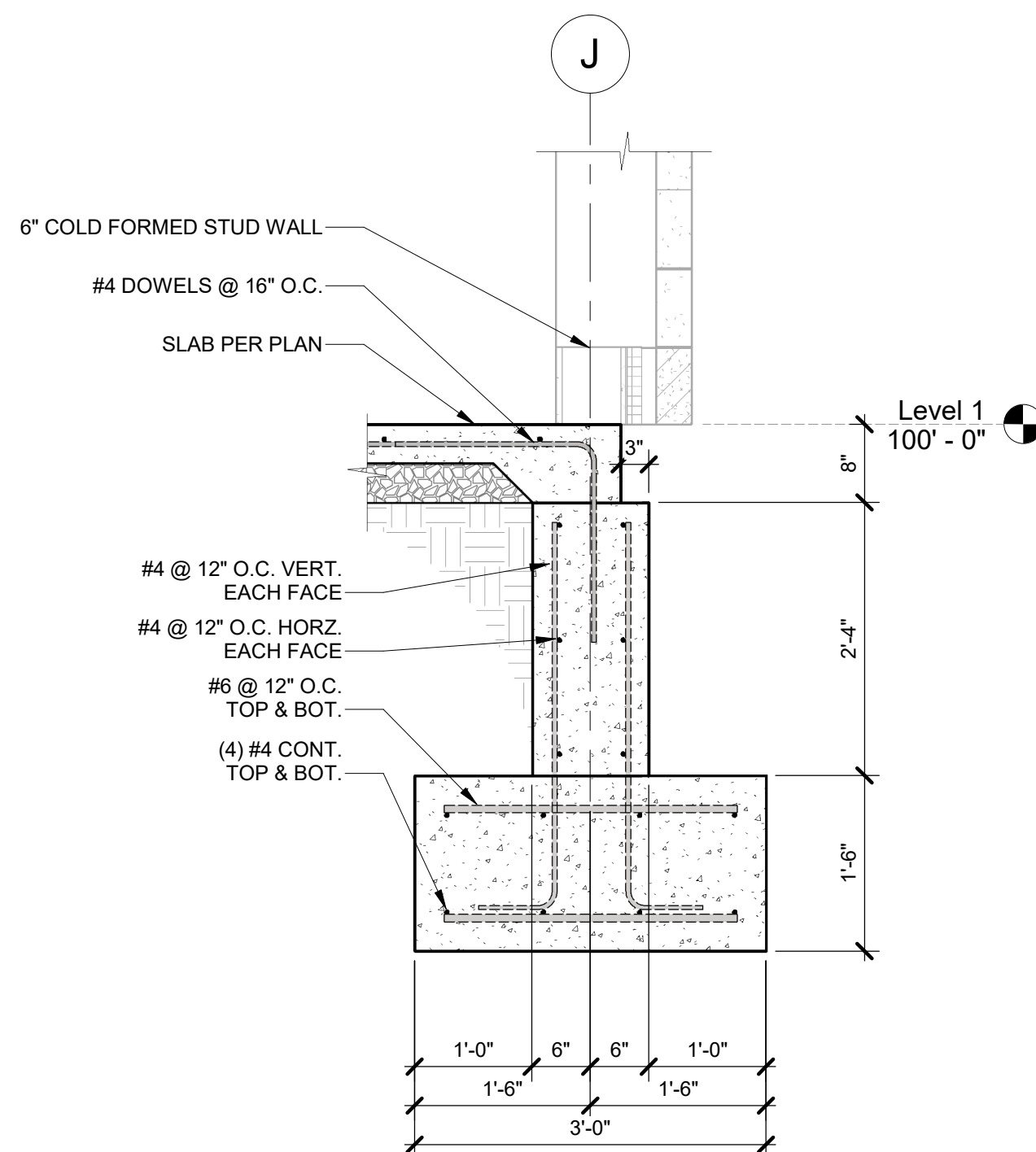
A2 EXTERIOR ISOLATED FOUNDATION SOUTH
3/4" = 1'-0"



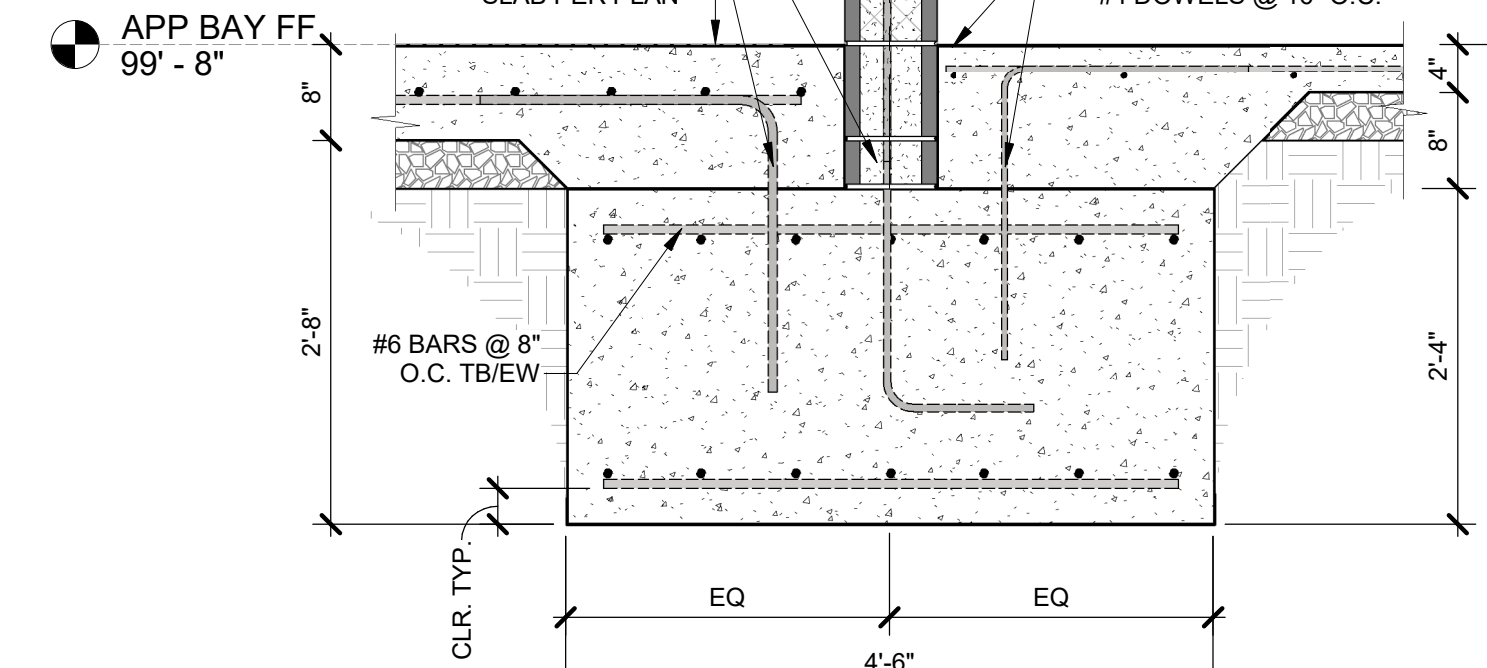
D3 EXTERIOR MASONRY WALL FOUNDATION
3/4" = 1'-0"



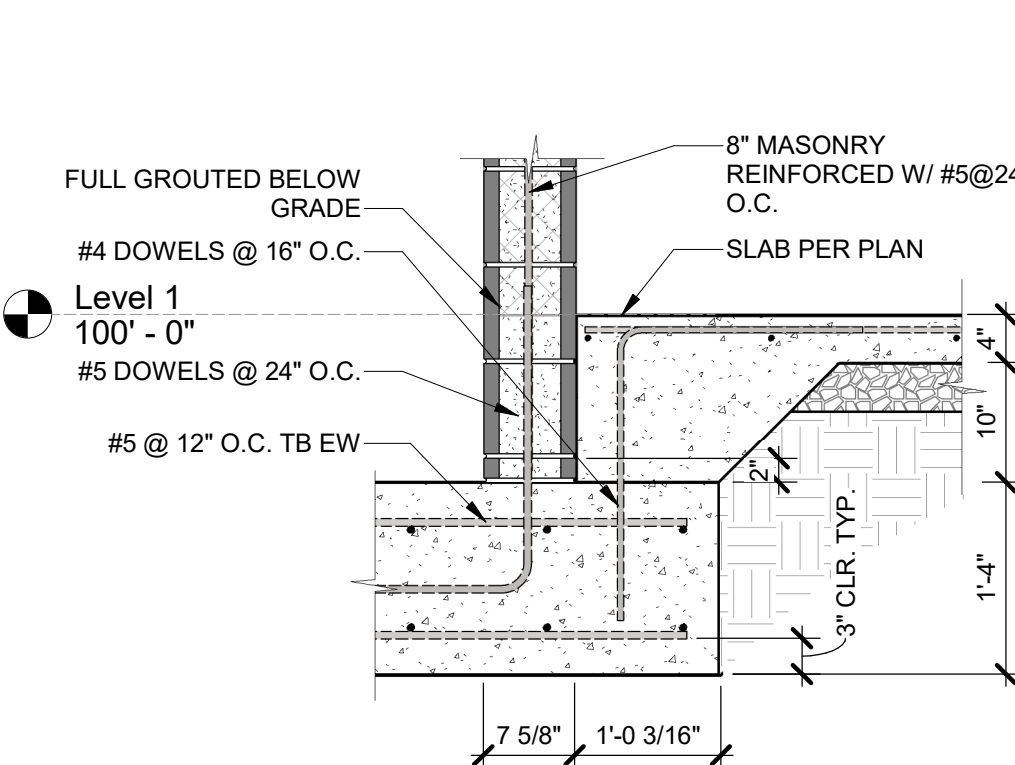
C4 ELEVATOR FOUNDATION SECTION
3/4" = 1'-0"



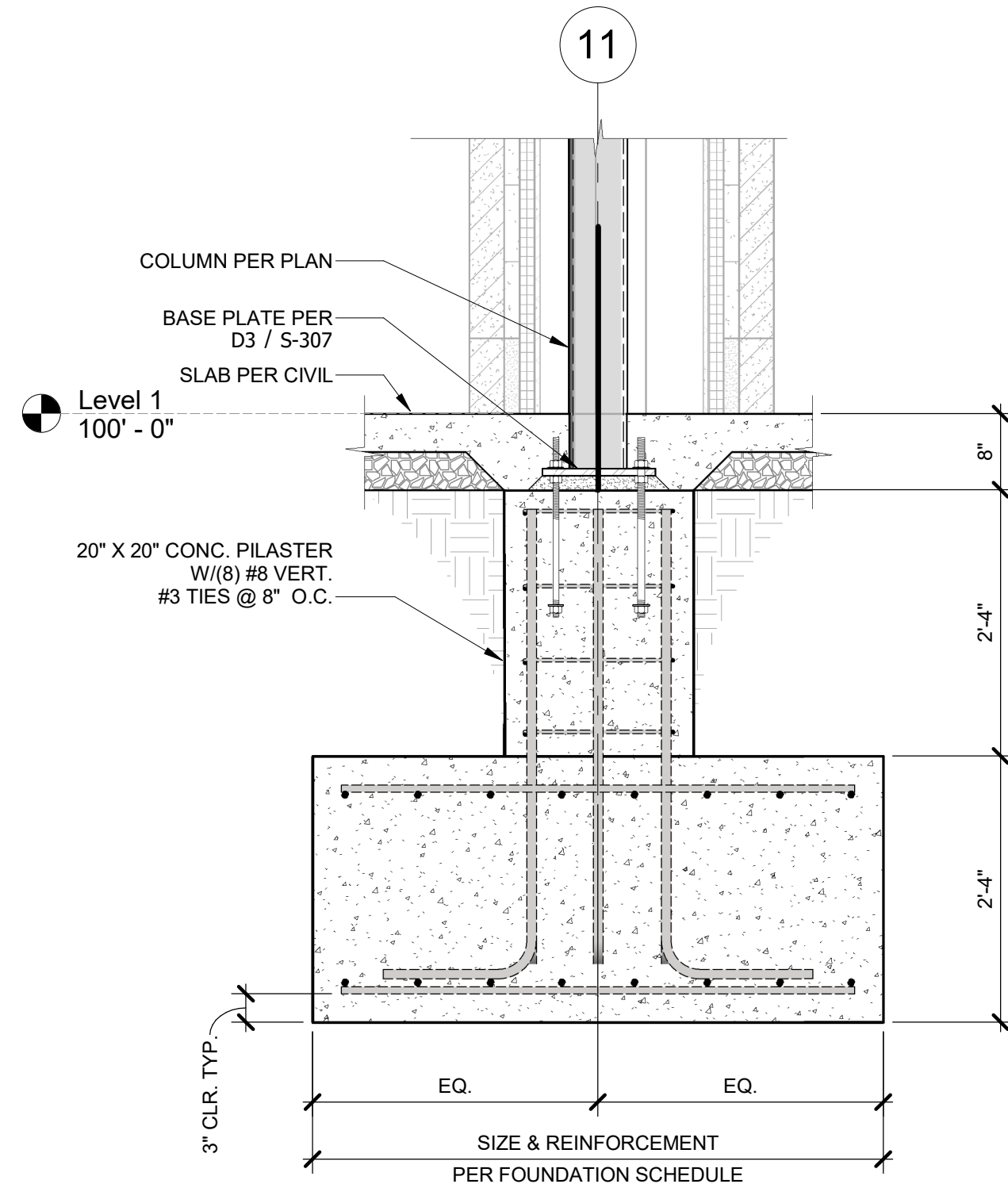
A4 SOUTH STEM WALL FOUNDATION
3/4" = 1'-0"



D5 APP BAY NORTH MASONRY WALL FOUNDATION
3/4" = 1'-0"



C6 SECTION
3/4" = 1'-0"



A6 ISOLATED EXTERIOR FOUNDATION W/PILASTER
3/4" = 1'-0"



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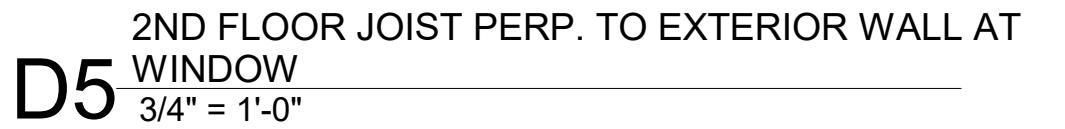
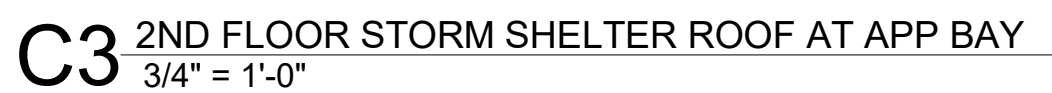
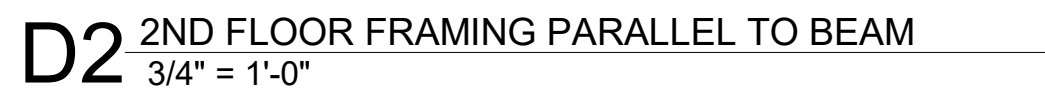
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**FOUNDATION
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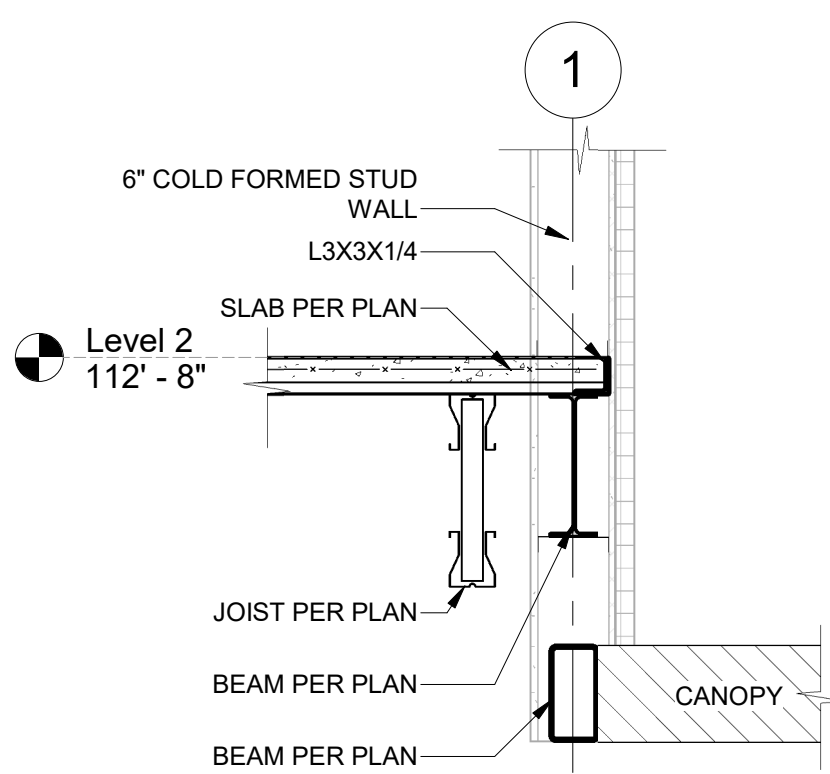
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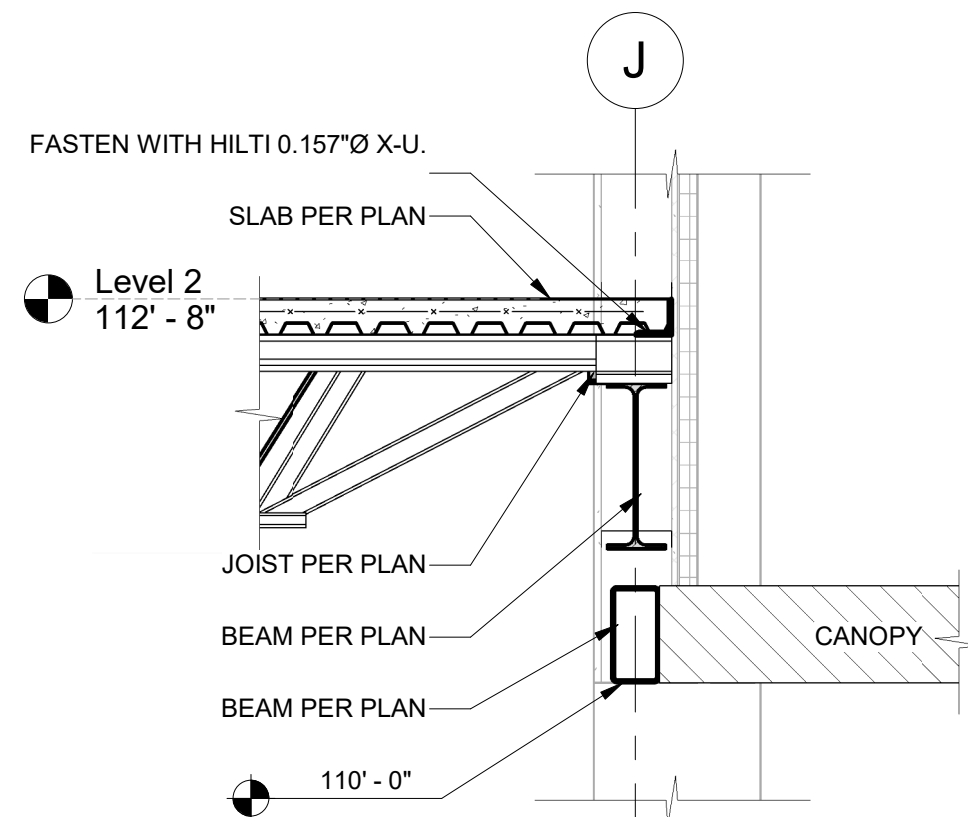
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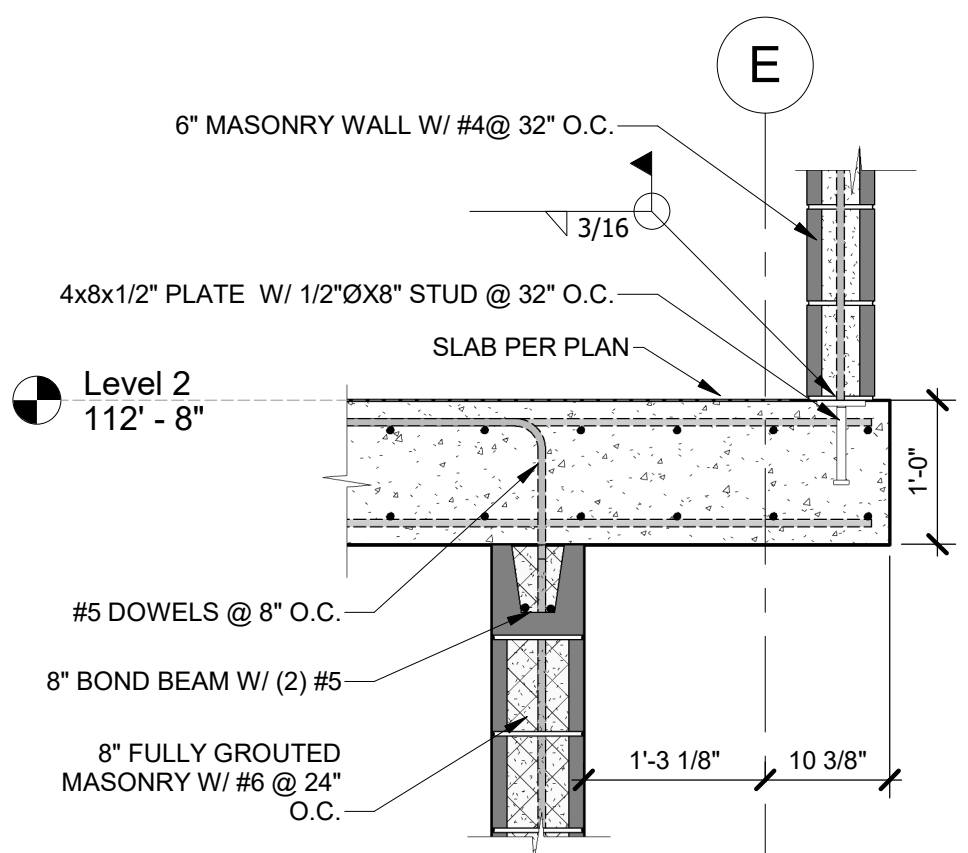
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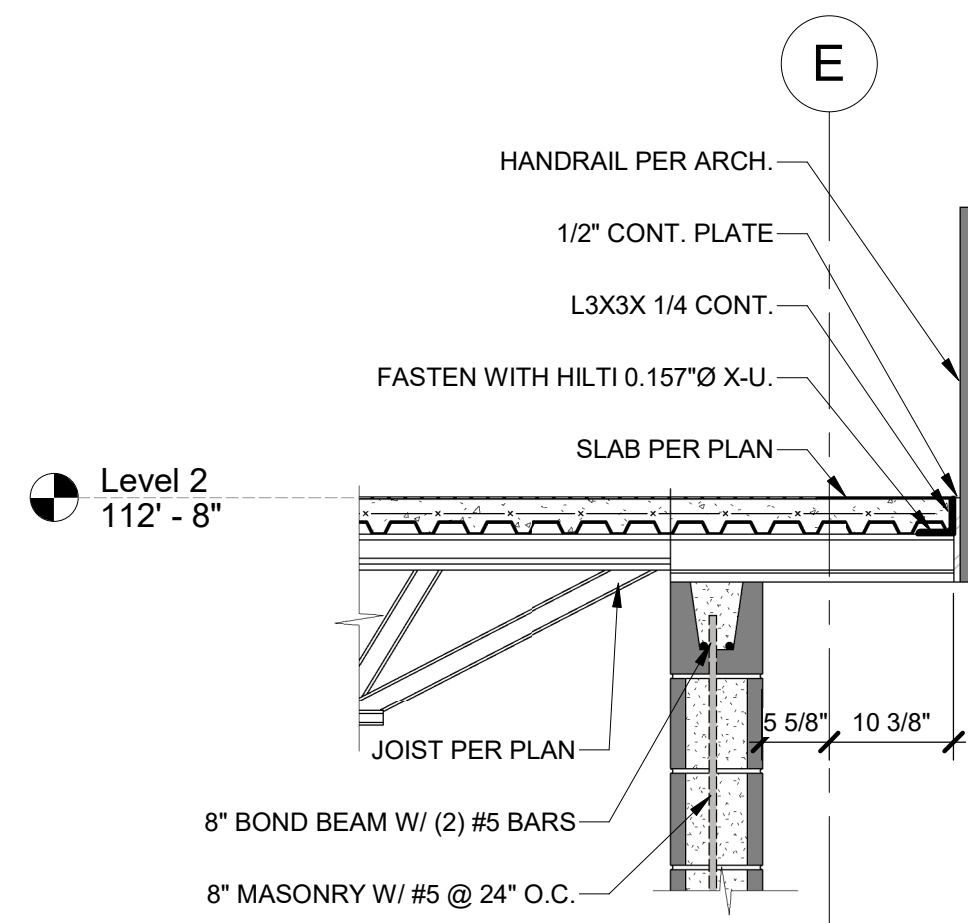
A1 SECTION
3/4" = 1'-0"



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



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



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



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**FLOOR
SECTIONS**

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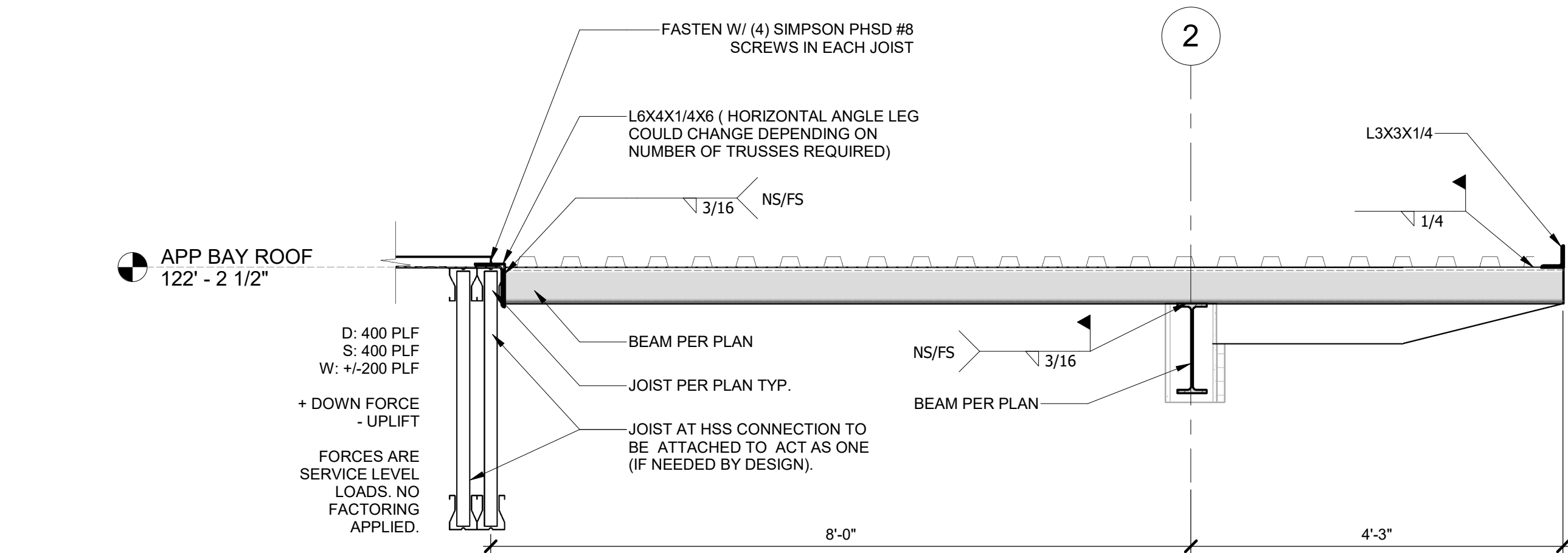
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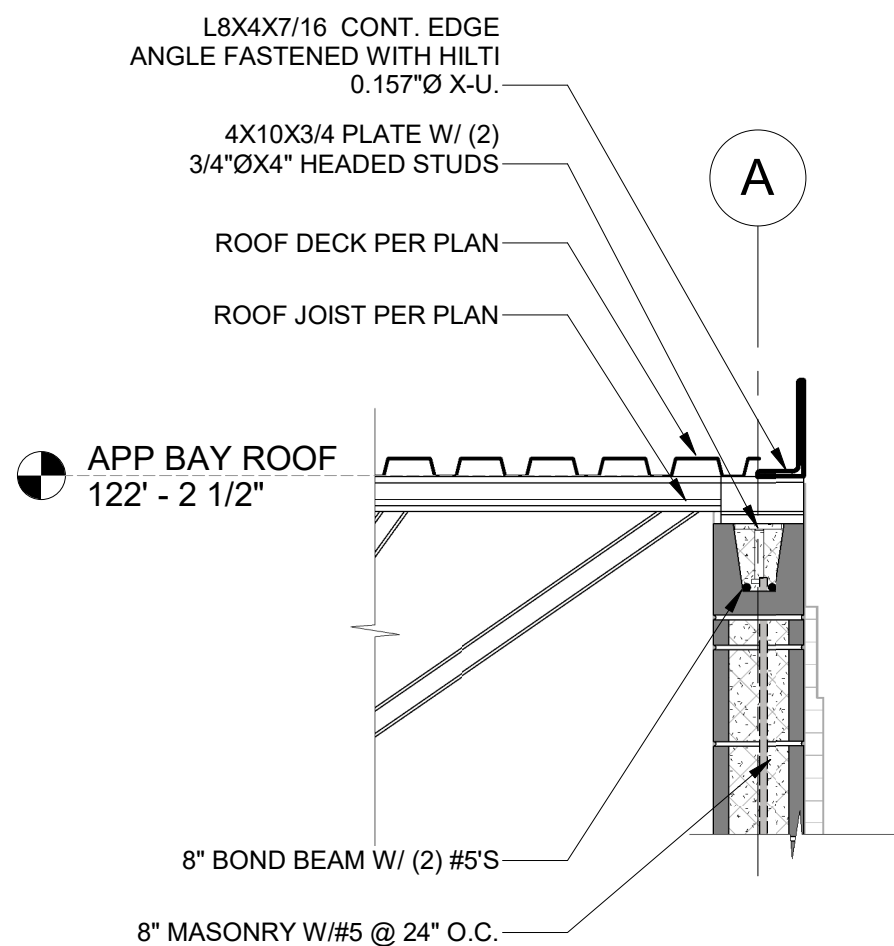
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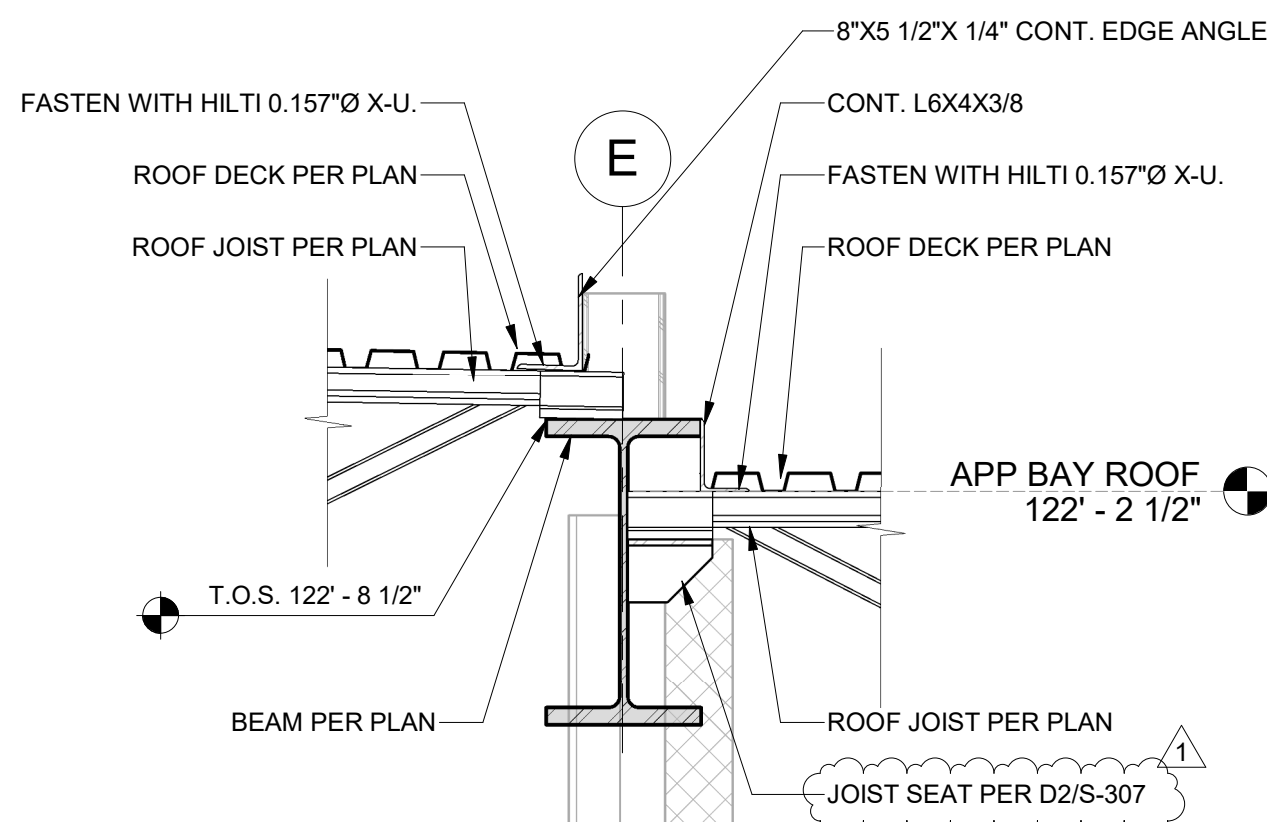
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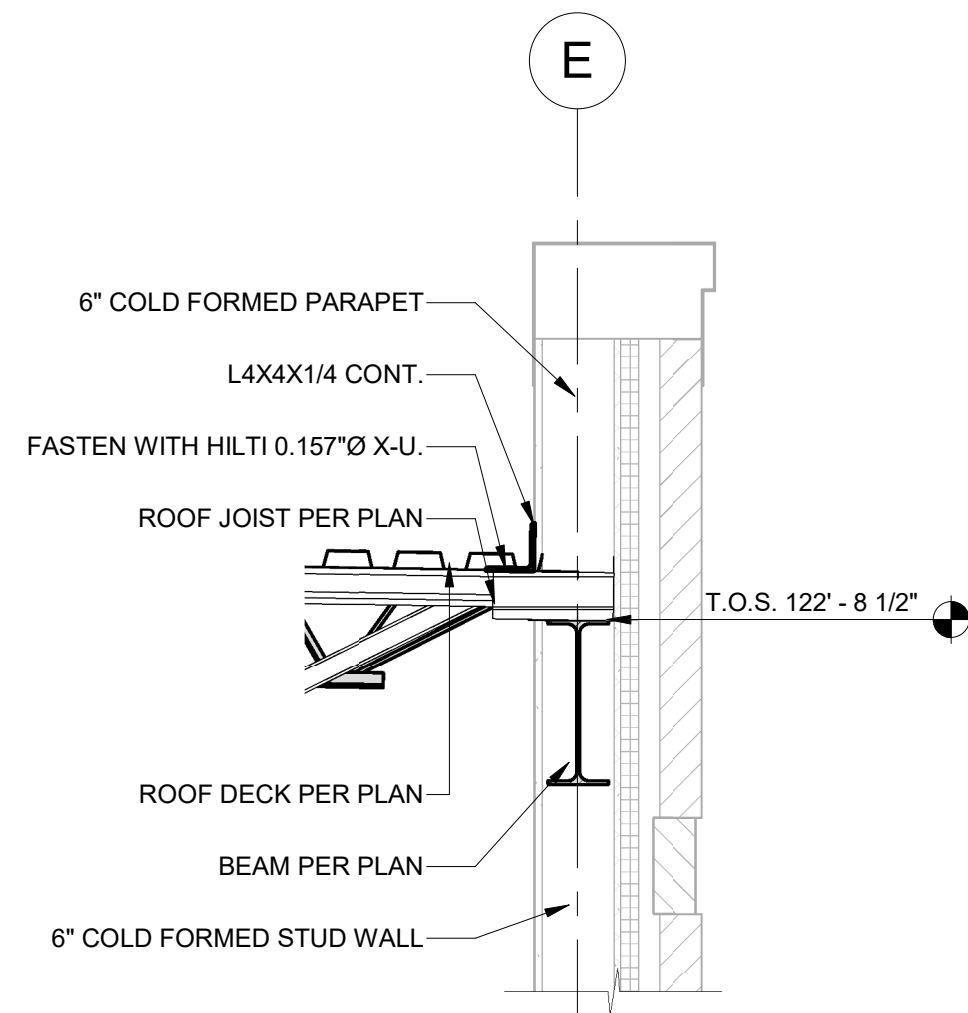
D1 APP BAY ROOF EDGE CONDITION
3/4" = 1'-0"



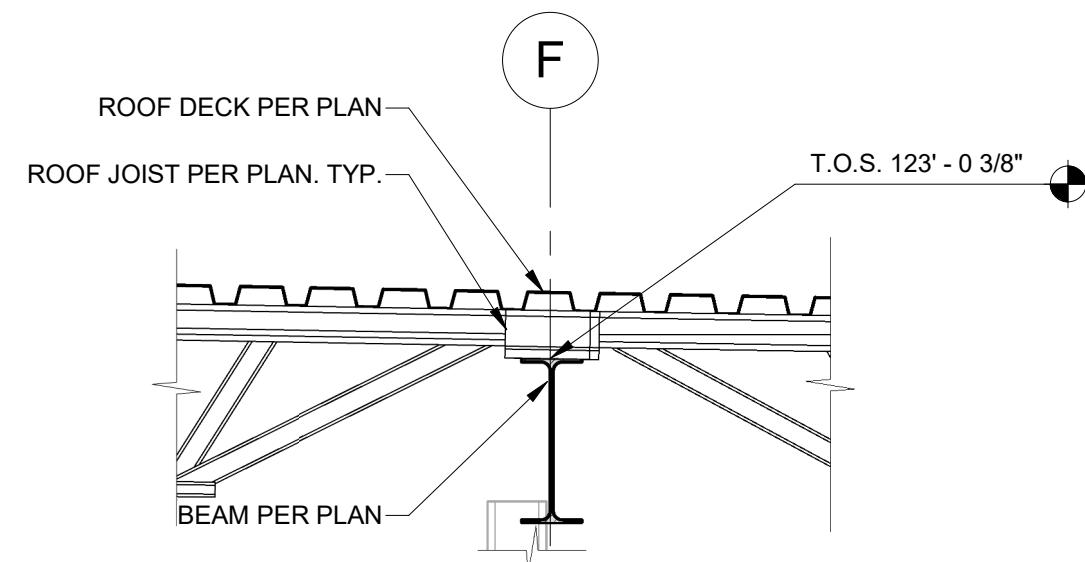
D4 APP BAY ROOF JOIST PERP. TO MASONRY
3/4" = 1'-0"



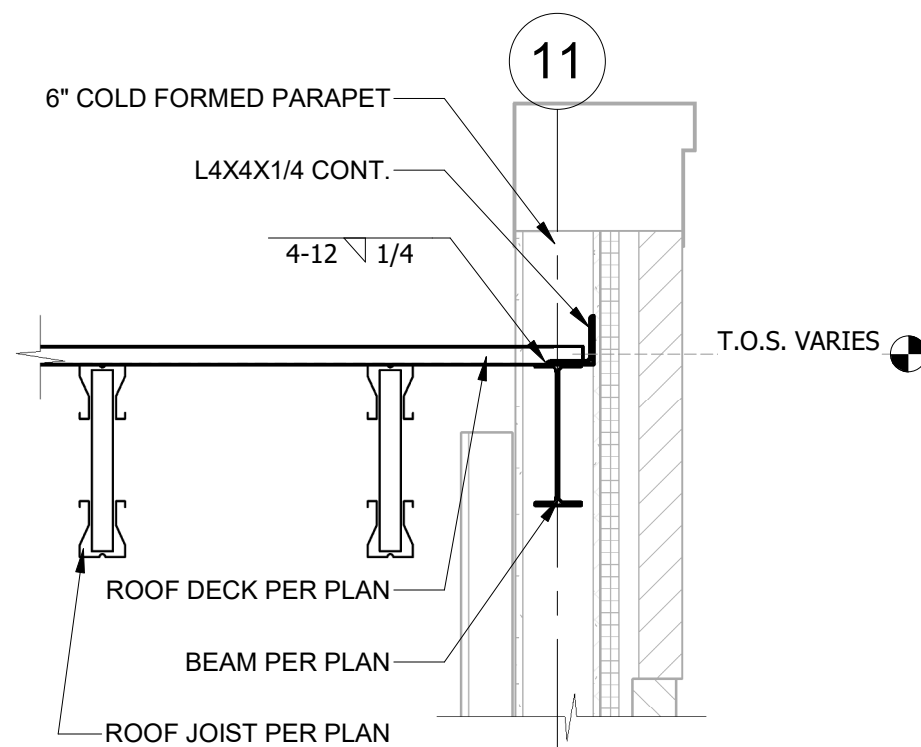
D6 APP BAY ROOF SOUTH BEARING LINE
3/4" = 1'-0"



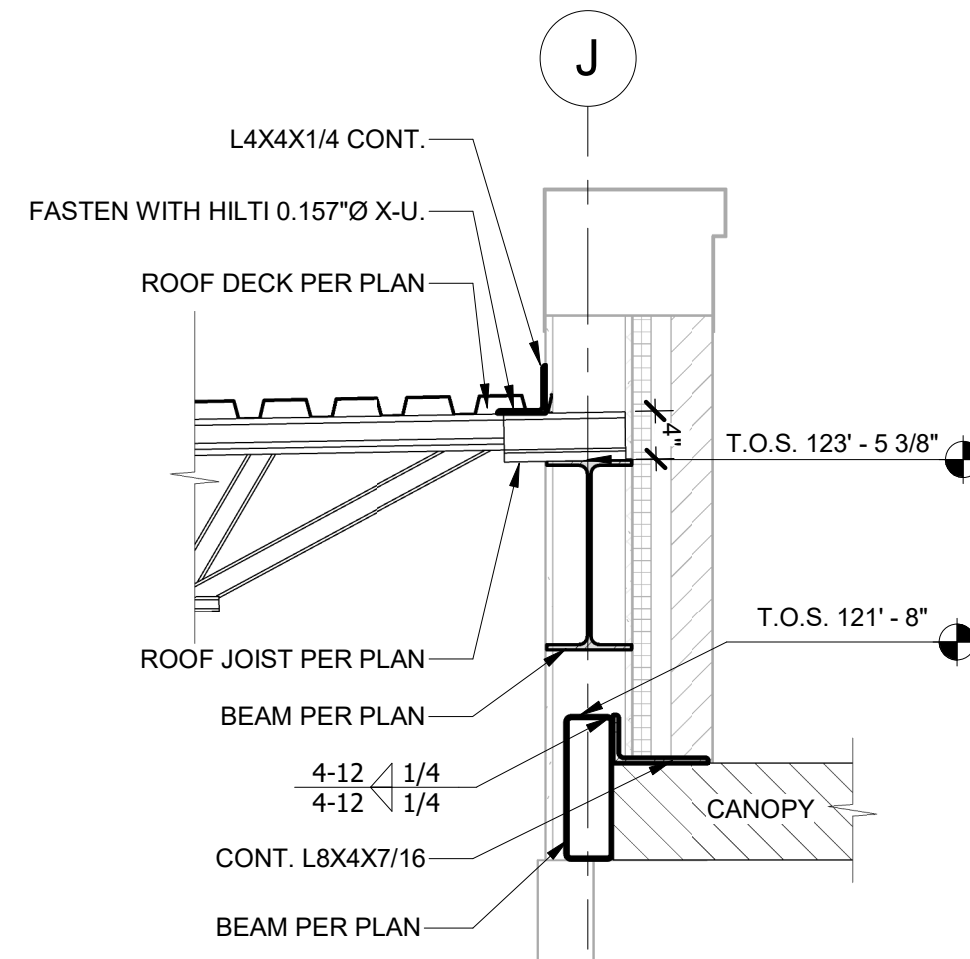
B1 ROOF FRAMING PERP. NOT AT APP BAY NORTH
3/4" = 1'-0"



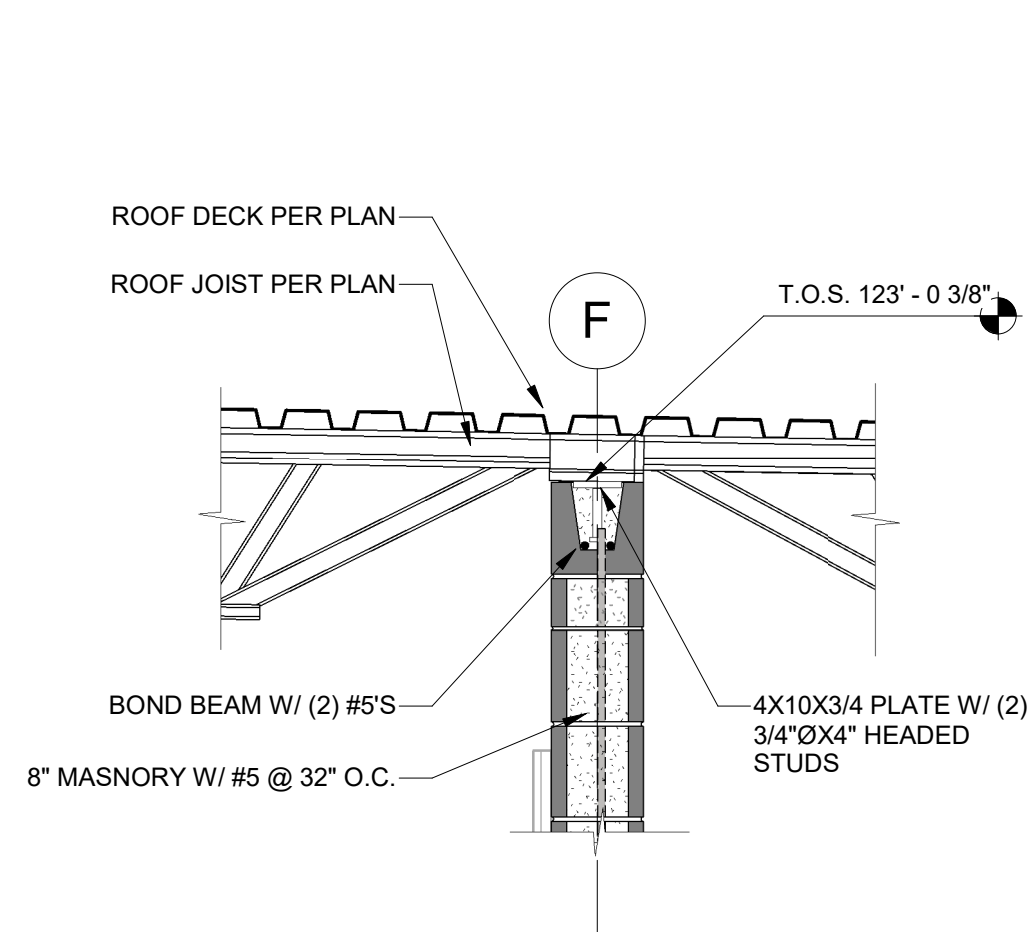
B2 ROOF INTERIOR BEAM BEARING LINE
3/4" = 1'-0"



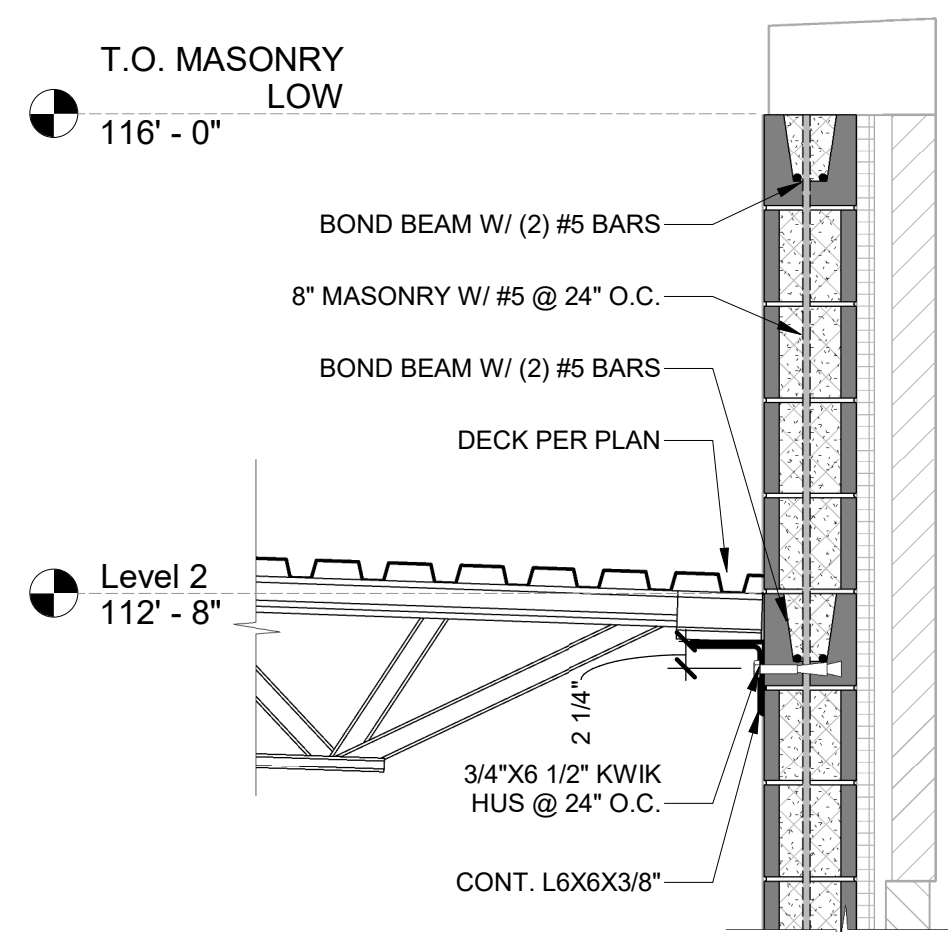
B4 ROOF FRAMING PARALLEL
3/4" = 1'-0"



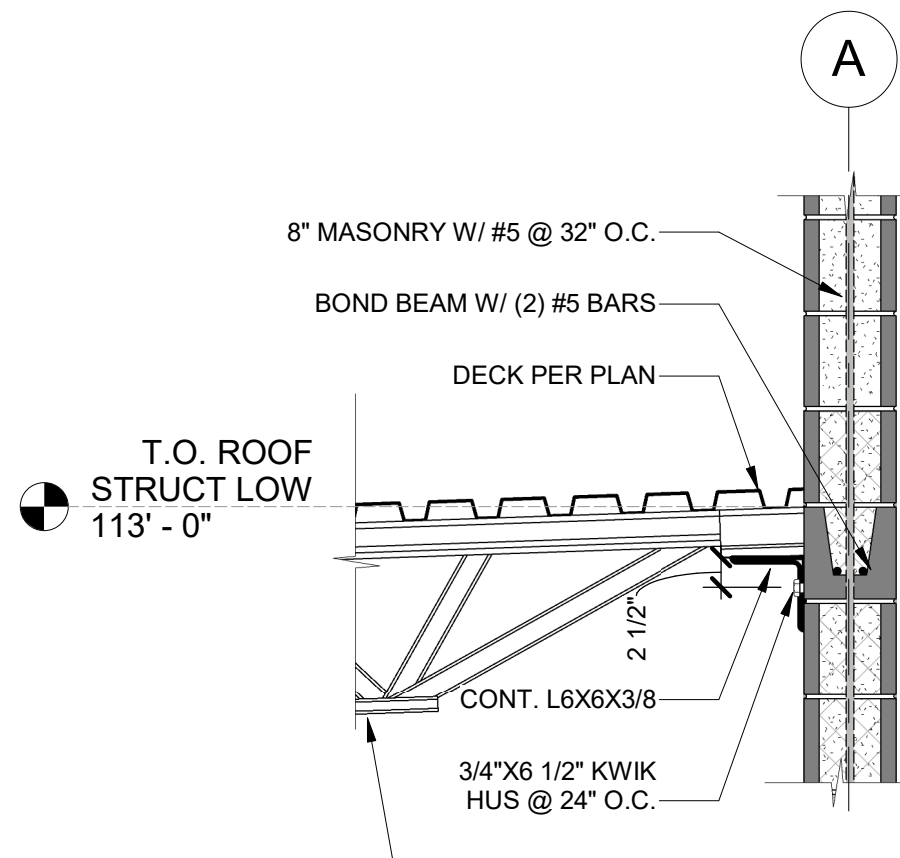
B6 ROOF FRAMING PERP. SOUTH SIDE
3/4" = 1'-0"



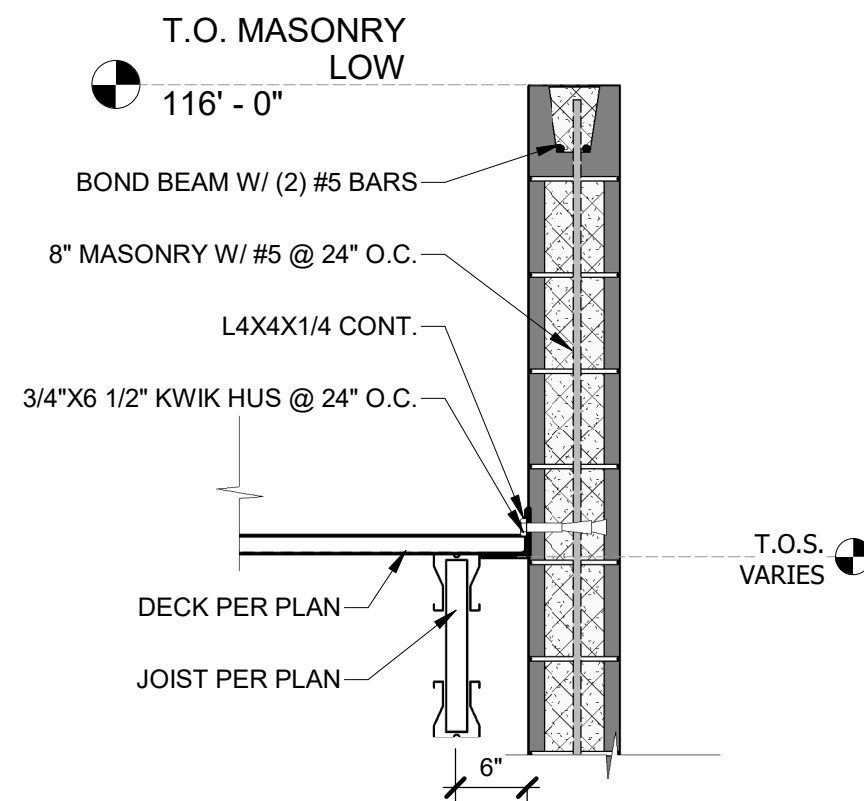
A1 ROOF FRAMING BEARING ON INT. MASONRY WALL
3/4" = 1'-0"



A2 NORTH CMU WALL @ FITNESS CENTER
3/4" = 1'-0"



A4 SOUTH CMU WALL @ FITNESS CENTER ROOF
3/4" = 1'-0"



A6 ROOF FRAMING PARALLEL AT FITNESS CENTER
3/4" = 1'-0"



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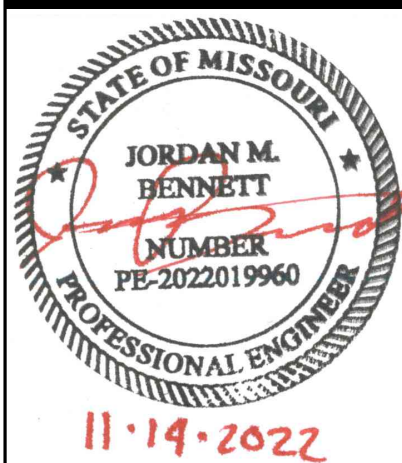
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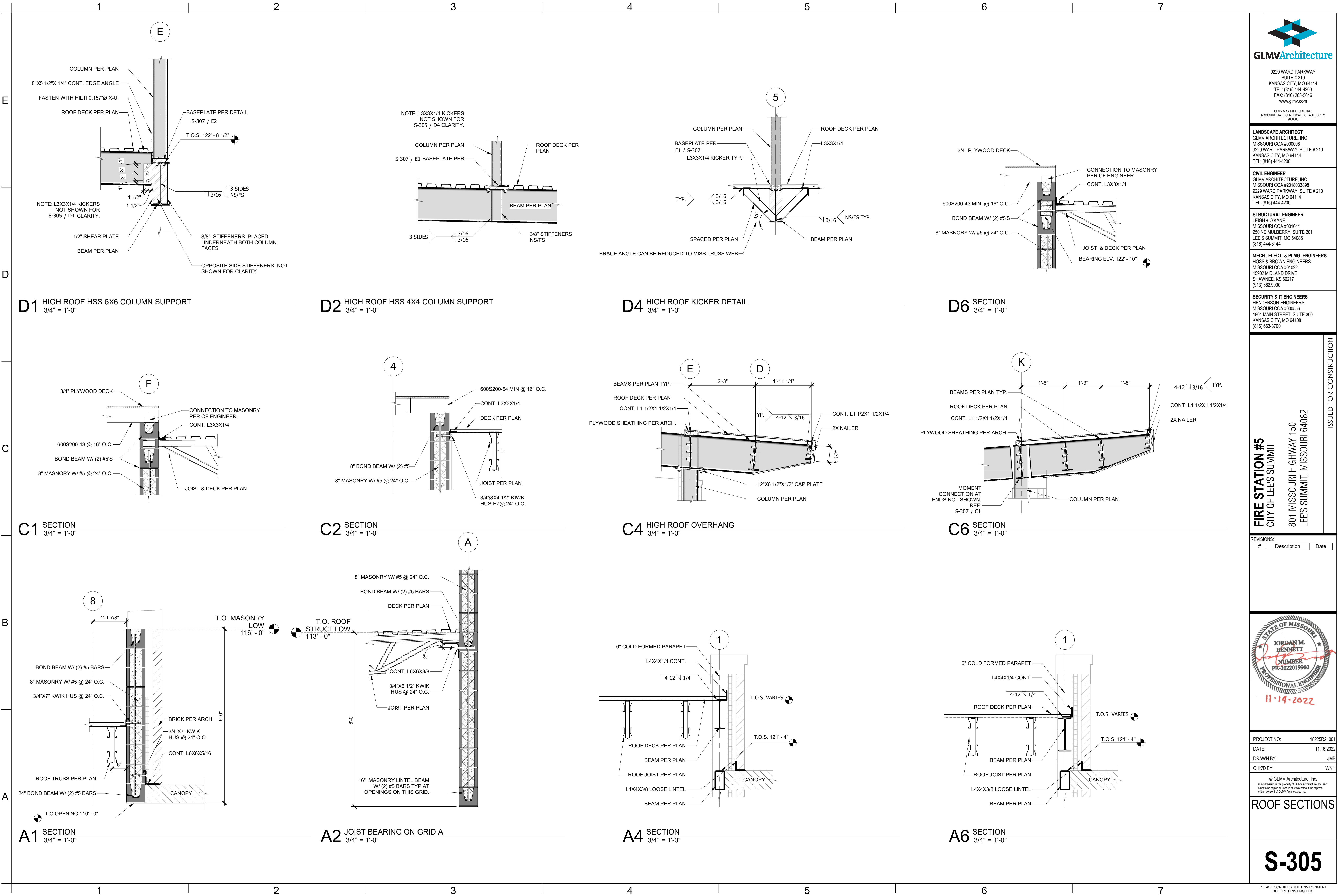
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ROOF SECTIONS

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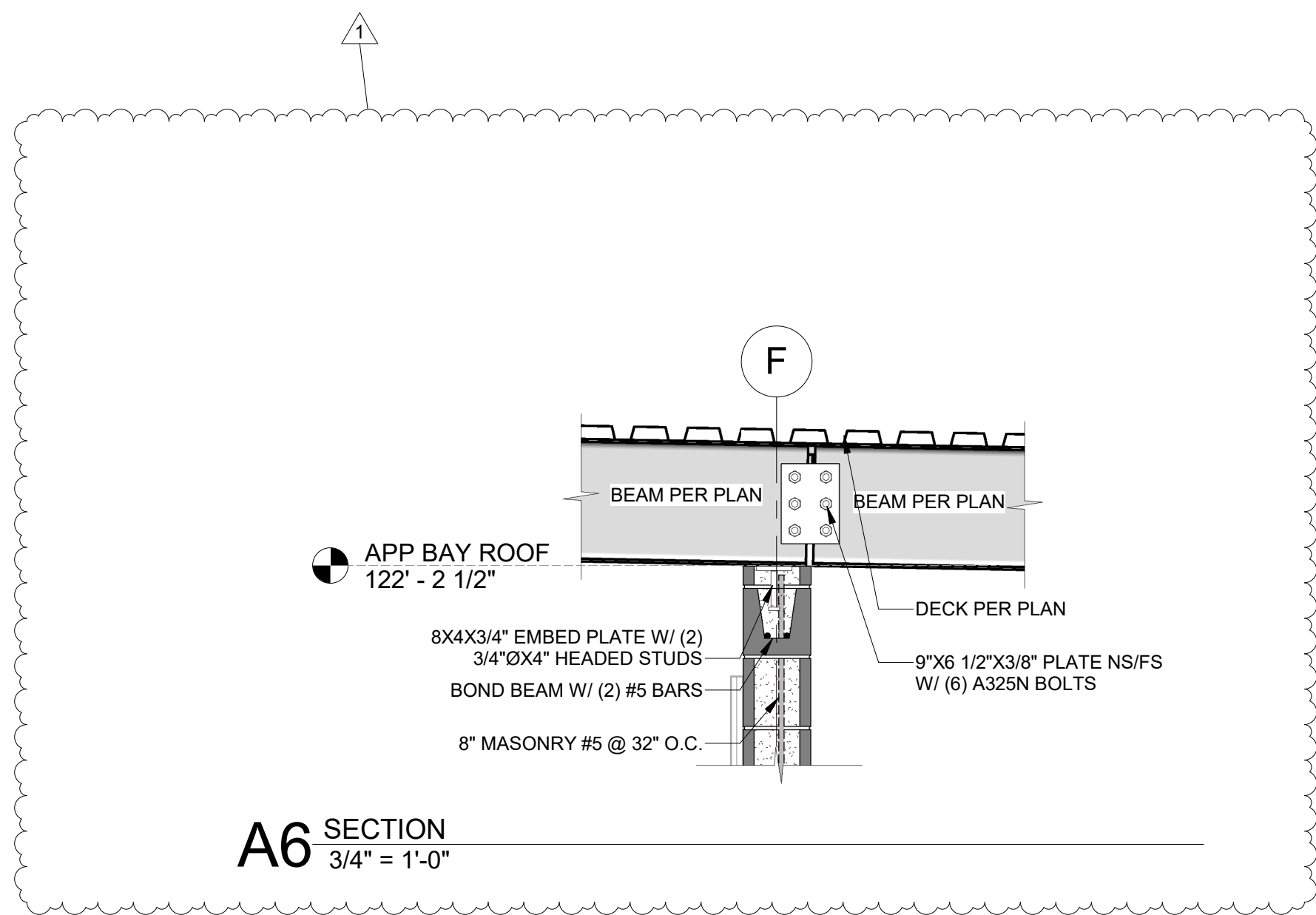
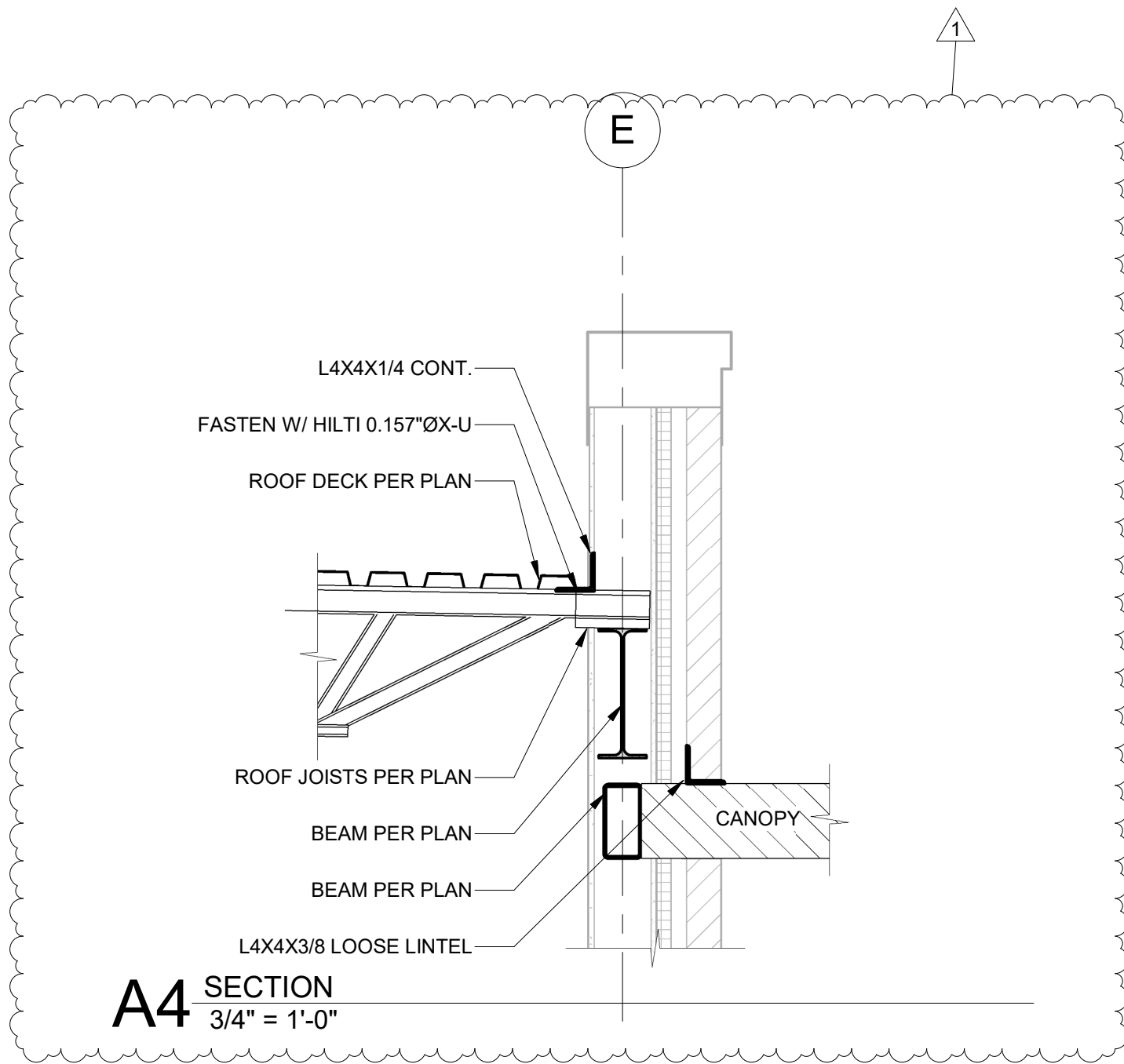
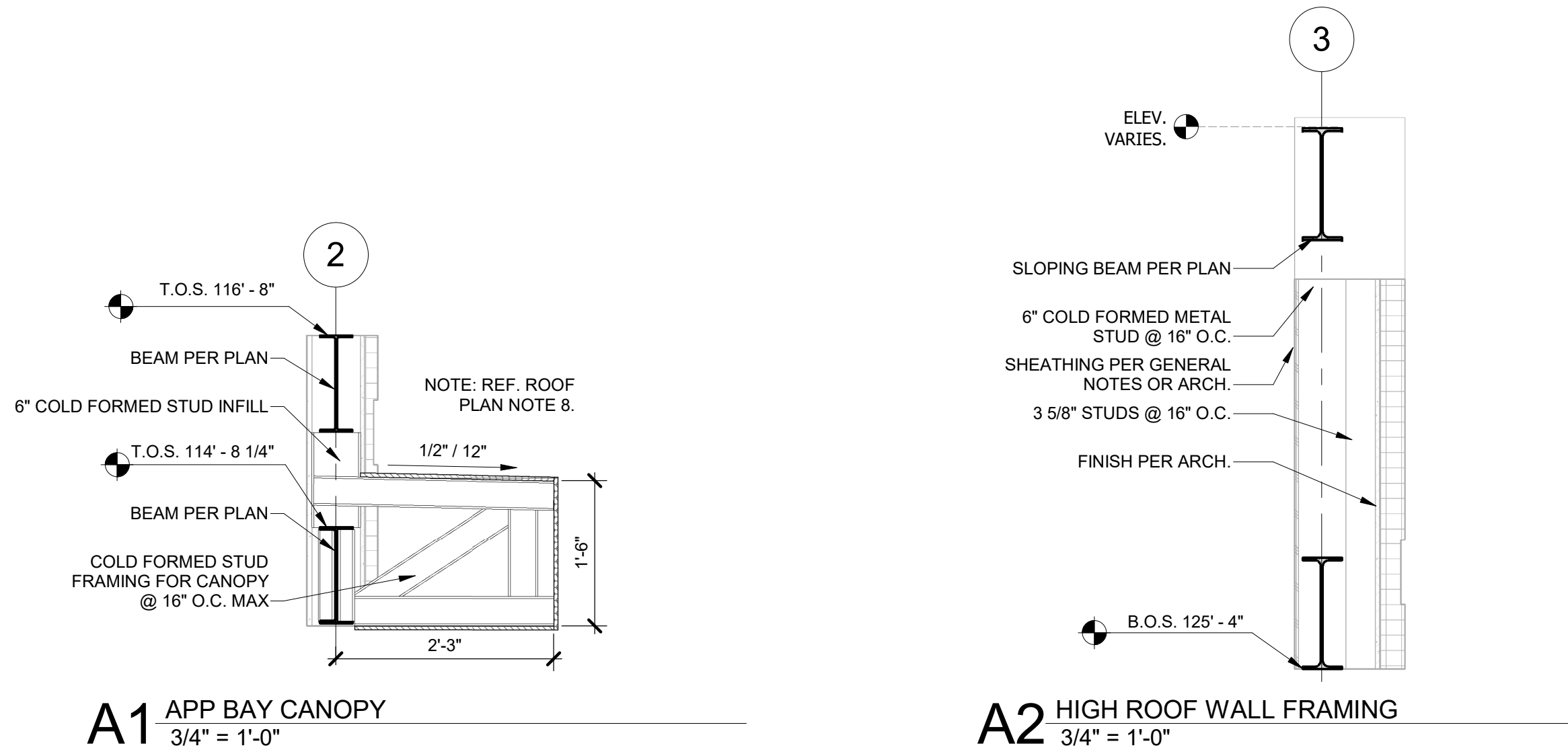
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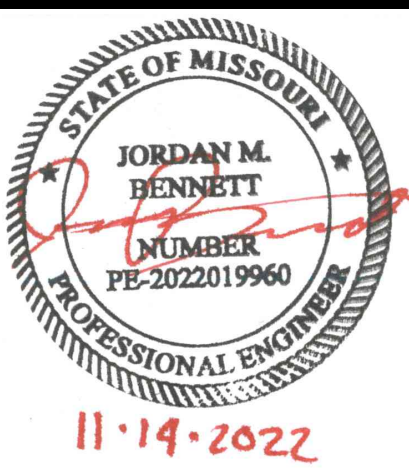
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LEE'S SUMMIT, MISSOURI 64082

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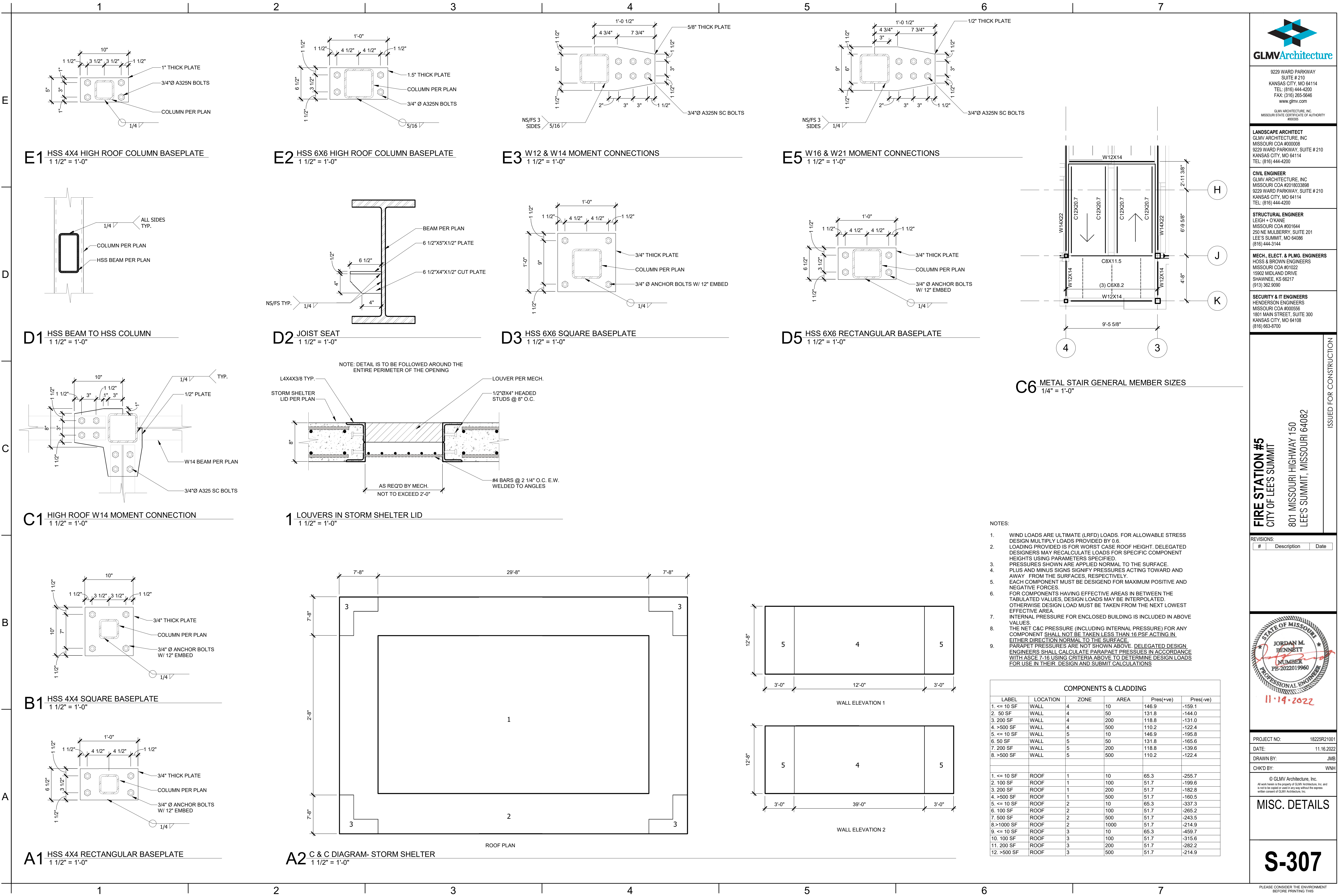
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ROOF SECTIONS

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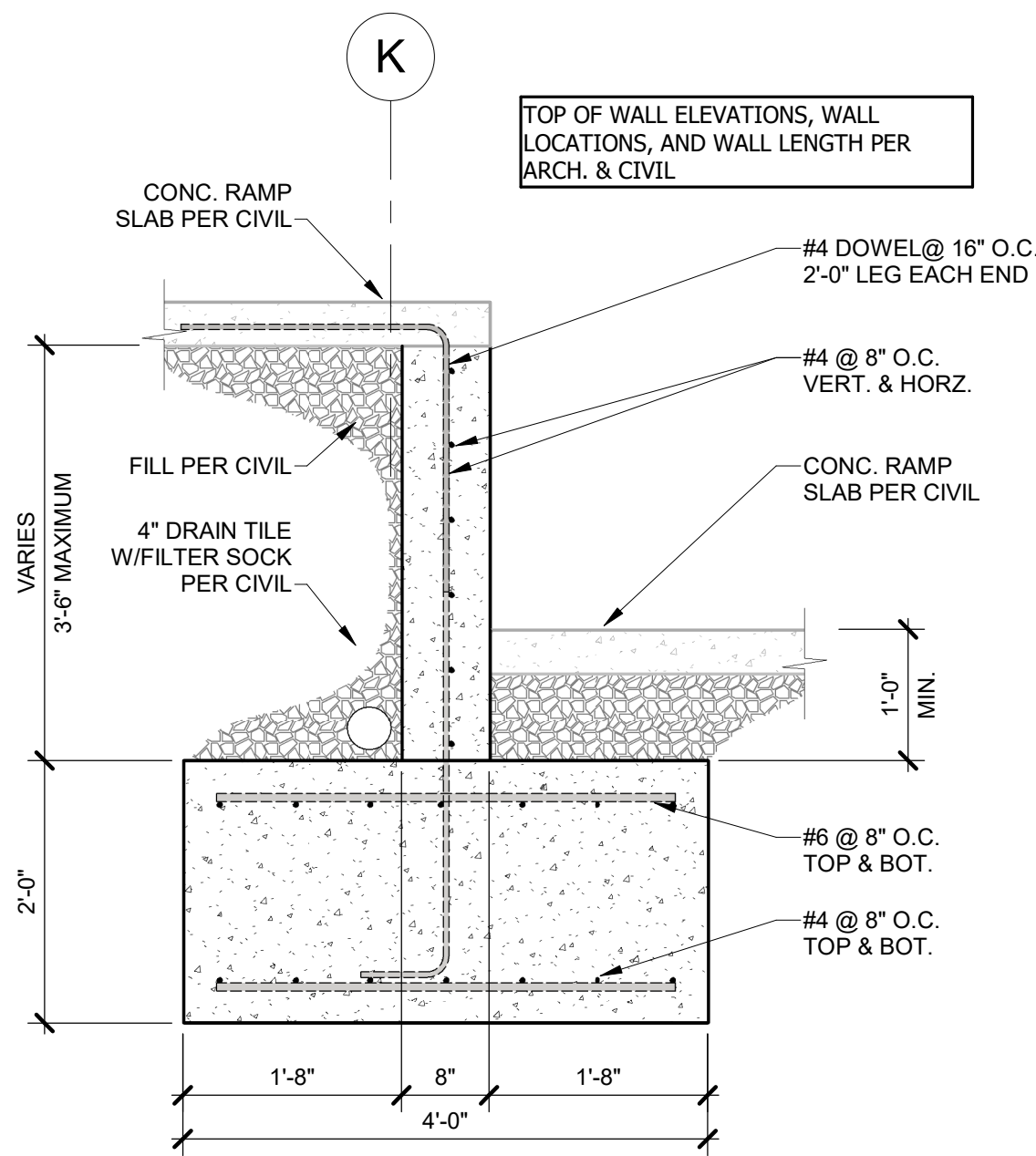
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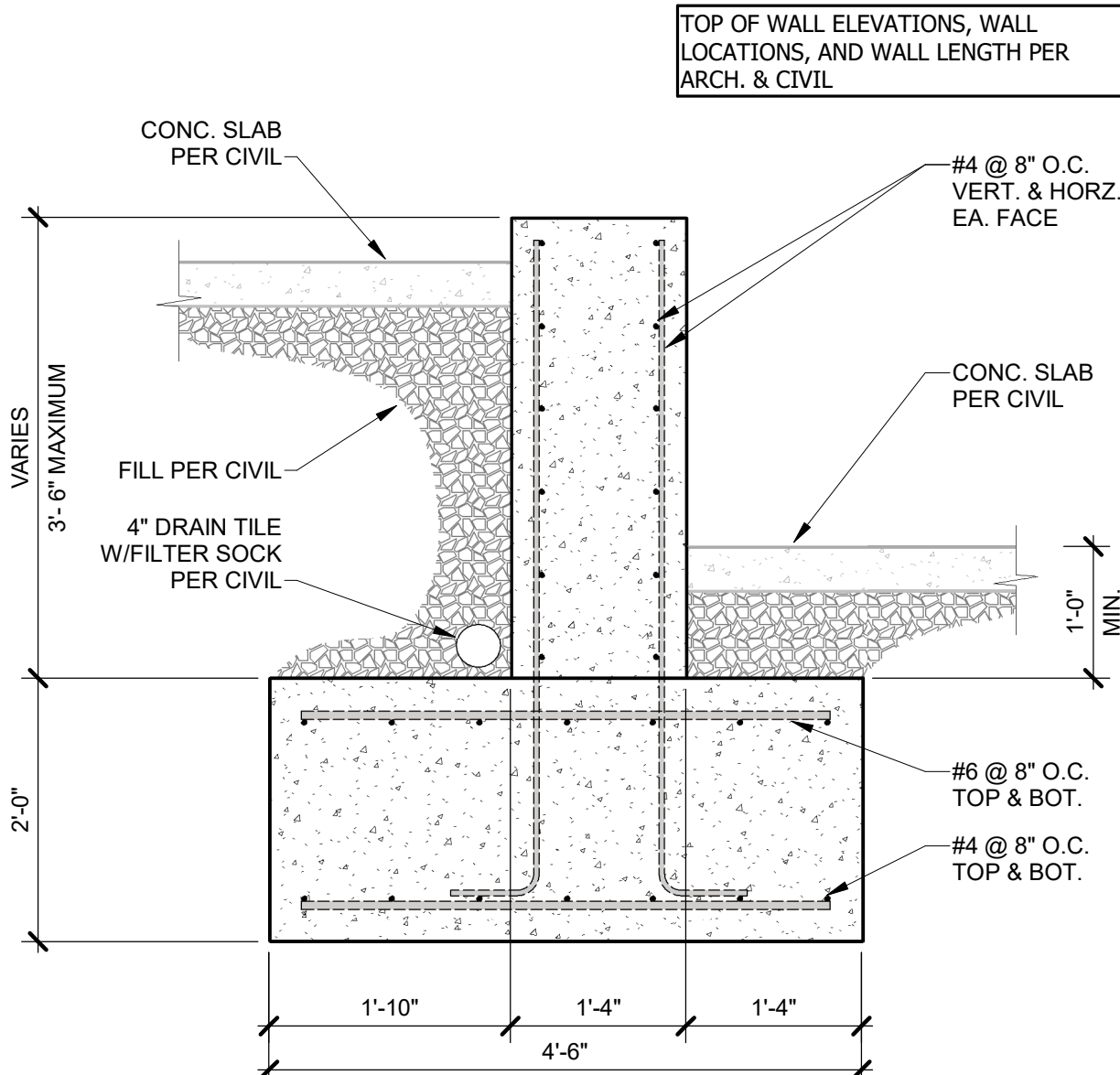
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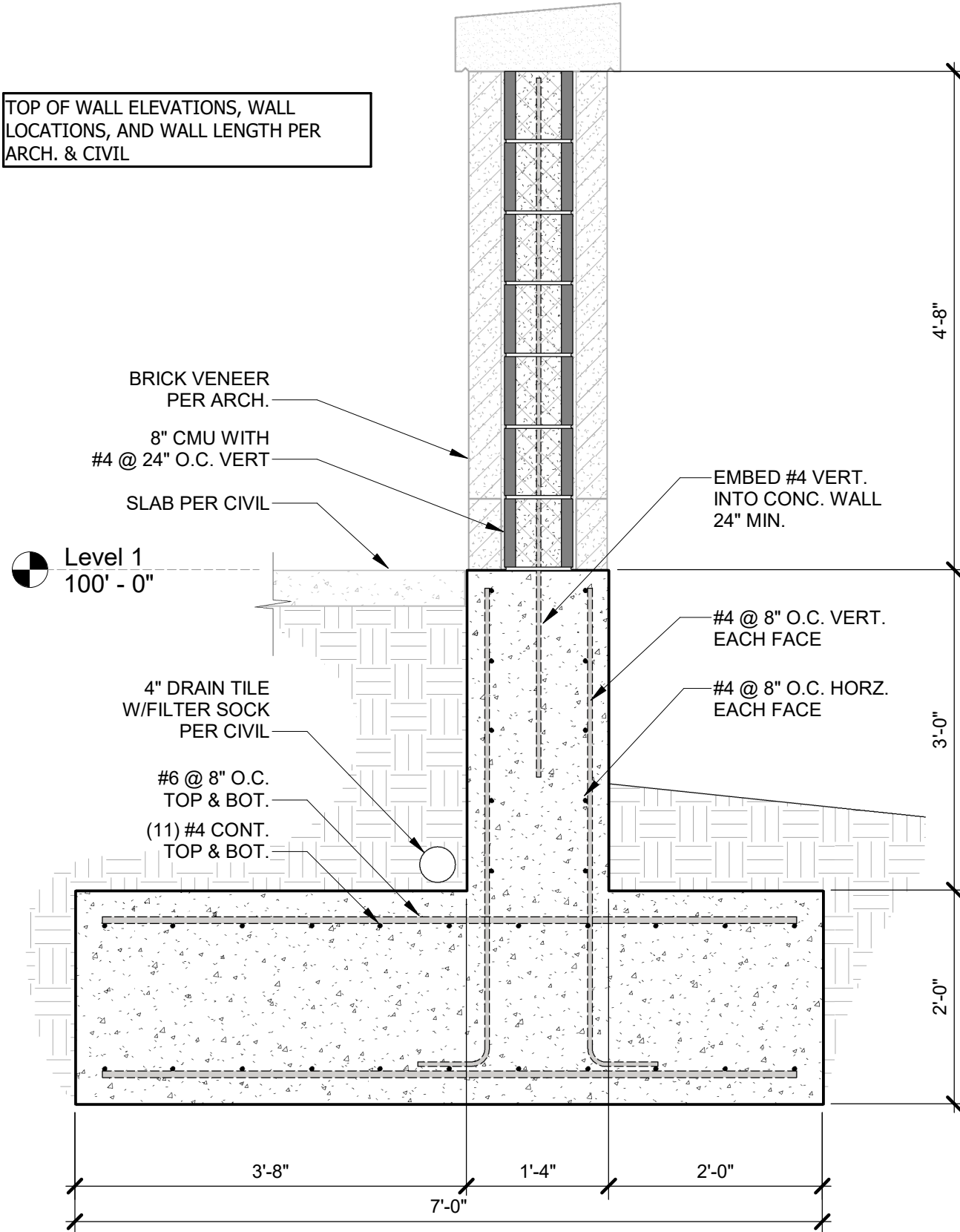
A2 RETAINING WALL BETWEEN RAMPS
3/4" = 1'-0"



A4 TYPICAL RETAINING WALL SECTION
3/4" = 1'-0"



A6 RETAINING WALL SECTION @ PATIO
3/4" = 1'-0"





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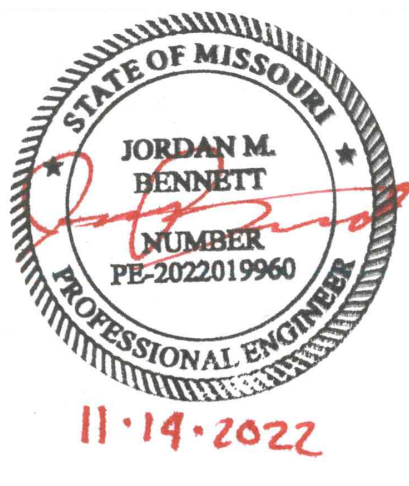
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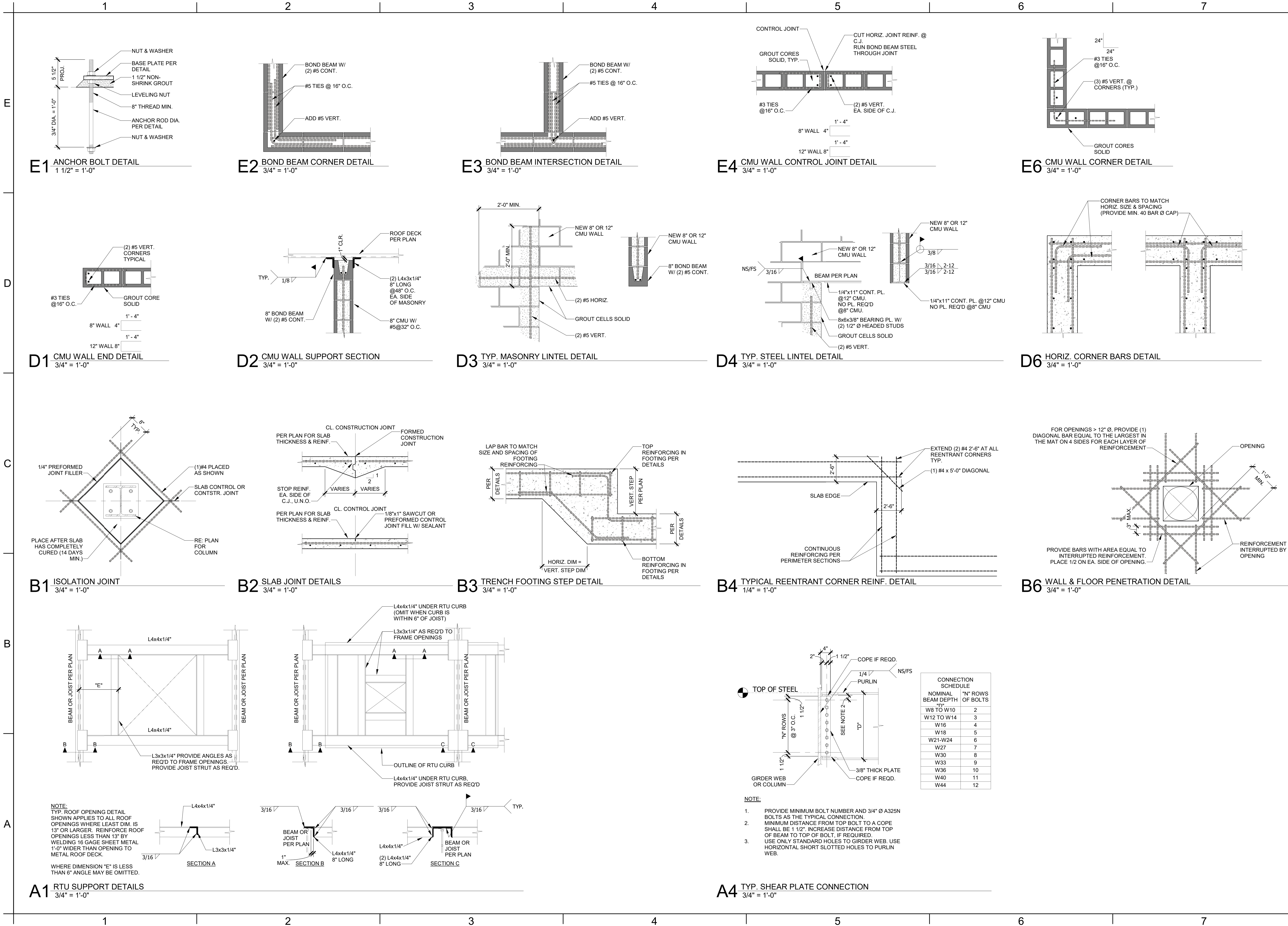
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RETAINING WALL
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TYPICAL DETAILS

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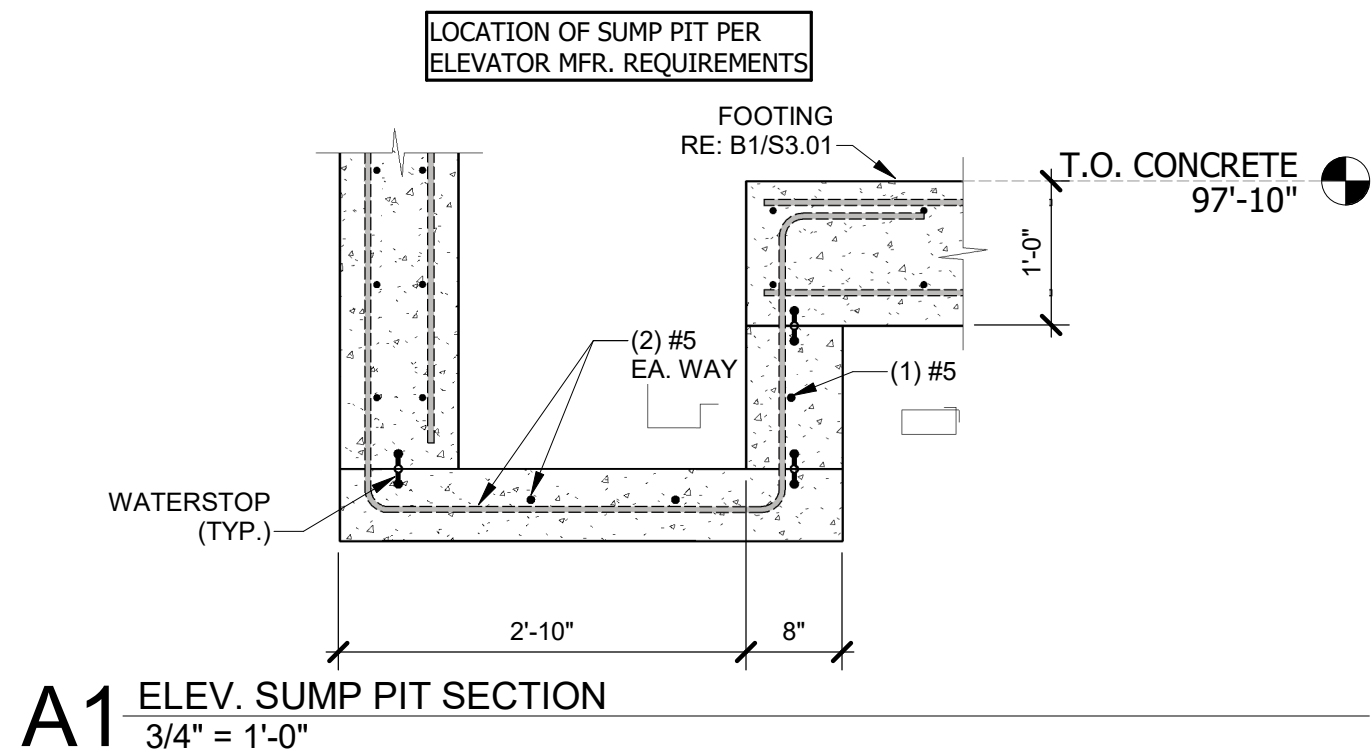
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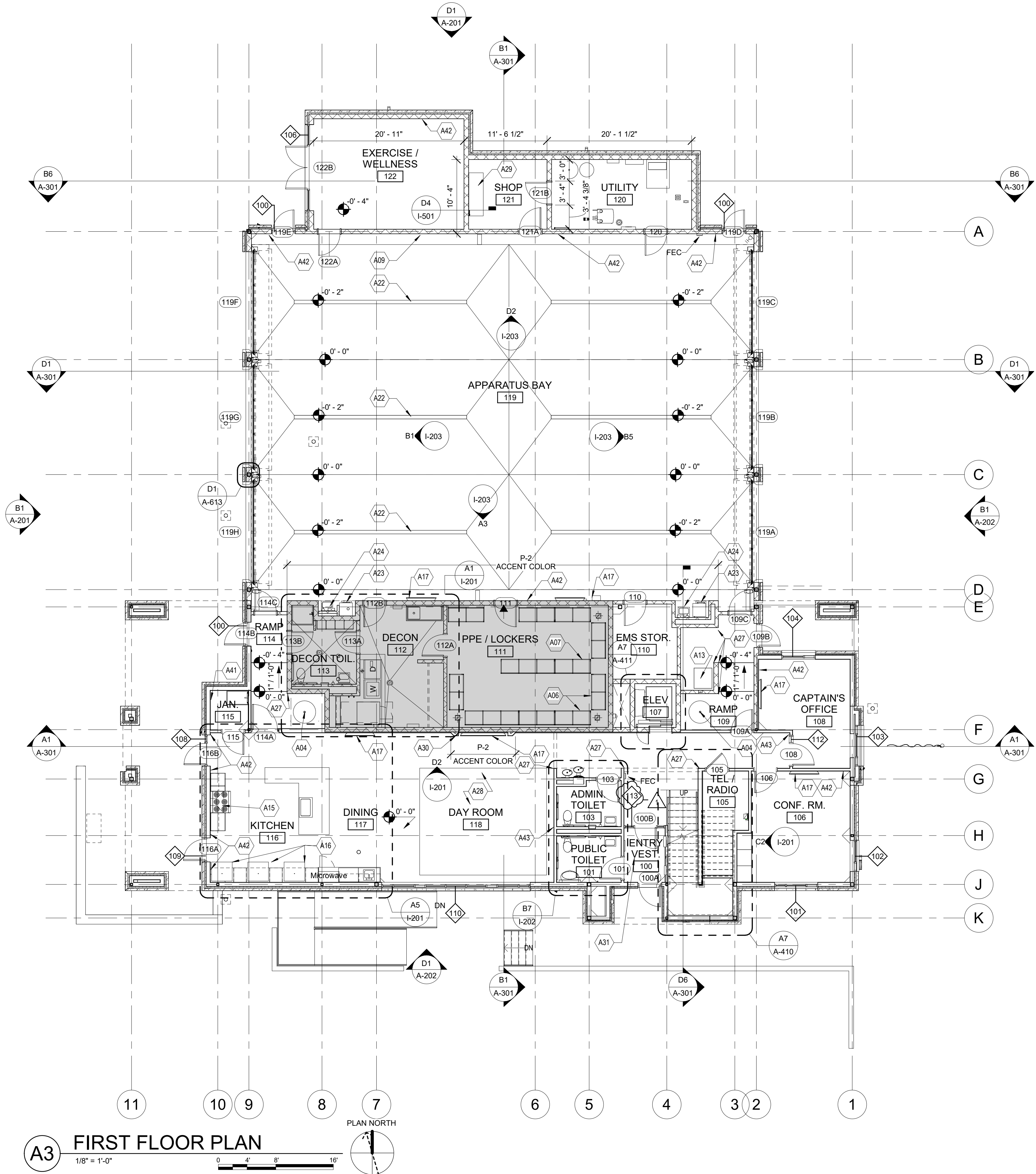
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ARCH NOTES

- A. THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE WITH THE OWNER.
- B. THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY ADJACENT AREAS OCCURRING DURING CONSTRUCTION.
- C. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS TRASH AND OTHER MISCELLANEOUS MATERIALS FROM THE SITE DAILY.
- D. MAINTAIN EXIT PATHS FOR THE DURATION OF THE CONSTRUCTION.
- E. CONTRACTOR SHALL NOT REPRODUCE ANY PORTION OF A CONTRACT DRAWING FOR USE IN ANY PORTION OF A SUBMITTAL.
- F. ALL DIMENSIONS ARE FROM THE FACE OF STUD FRAMING, FACE OF MASONRY, FACE OF CONCRETE, OR CENTER LINE OF STRUCTURAL STEEL (U.N.O.).
- G. 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.).
- H. COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- I. 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.).
- J. 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.).
- K. PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- L. SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION IDENTIFICATION).
- M. 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, OFOI
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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FIRST FLOOR PLAN

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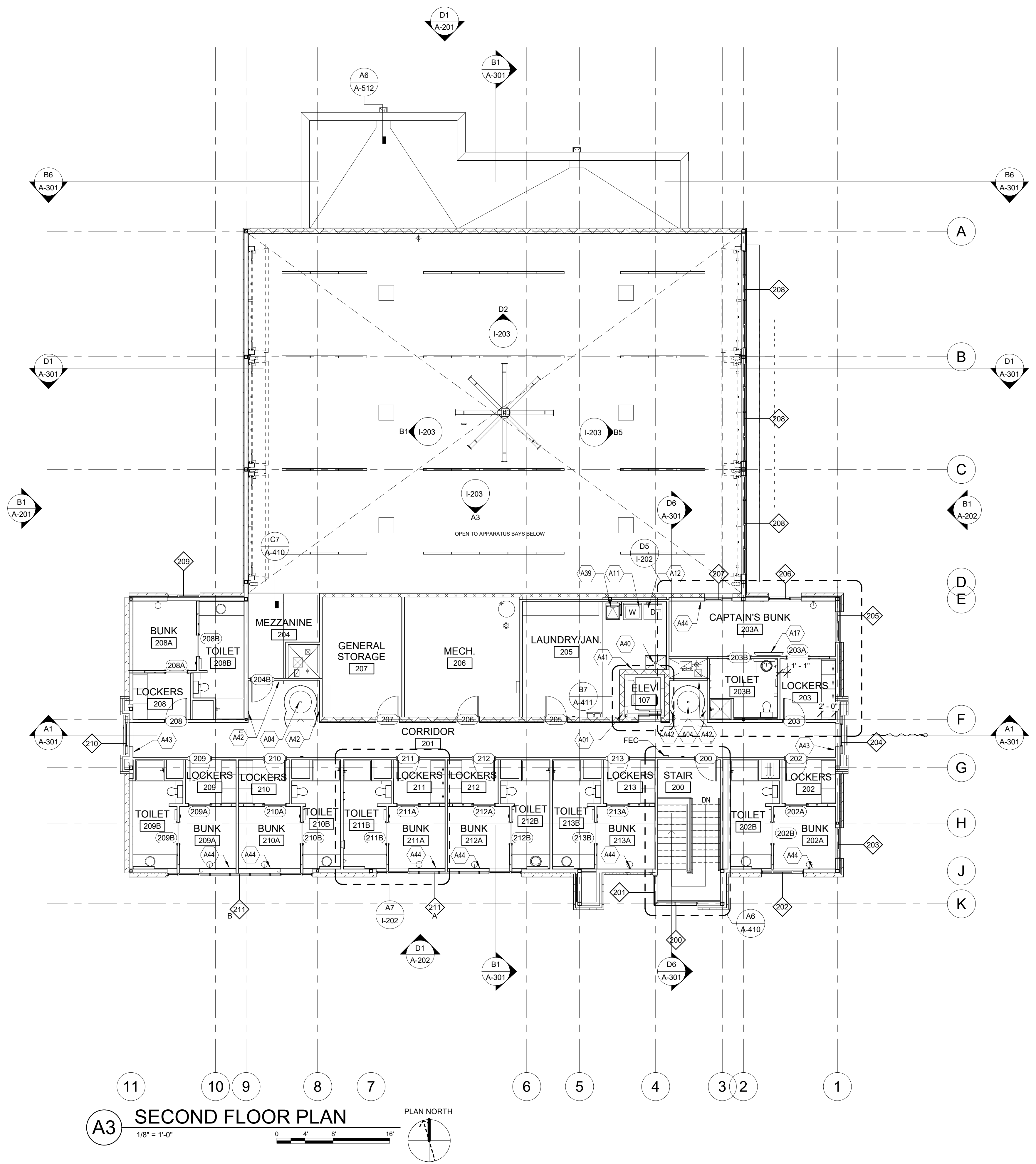
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A39	UTILITY SINK
A40	MOP SINK
A41	MOP AND BROOM RACK
A42	P-2 - ACCENT COLOR
A43	P-3 - ACCENT COLOR
A44	P-4 - ACCENT COLOR



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SECOND FLOOR PLAN

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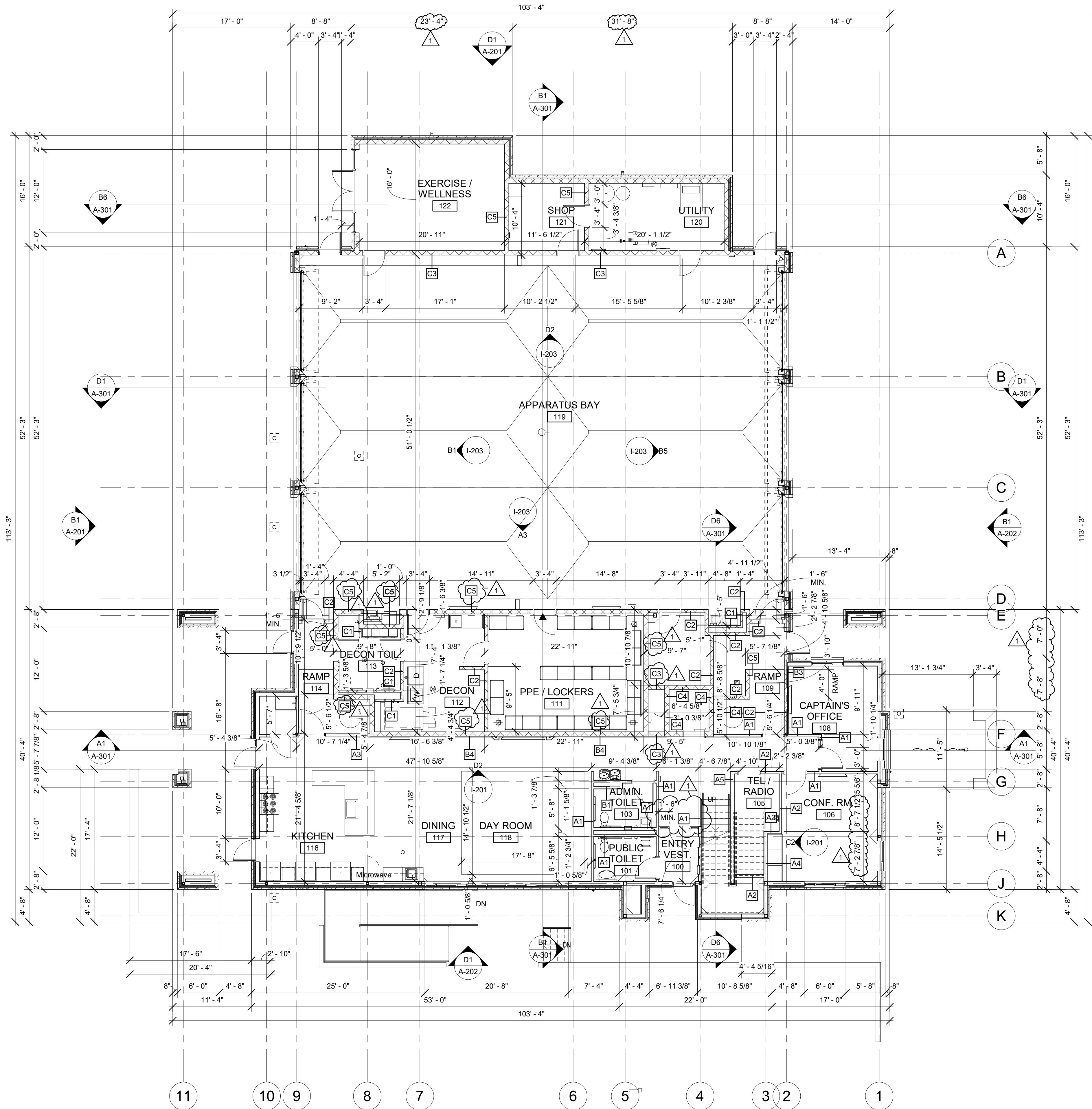
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A3 FIRST FLOOR DIMENSION PLAN
1/8" = 1'-0"



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- ALL DOORS ARE LOCATED 6 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.



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CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

#	Description	Date
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FIRST FLOOR
DIMENSION PLAN

A-103

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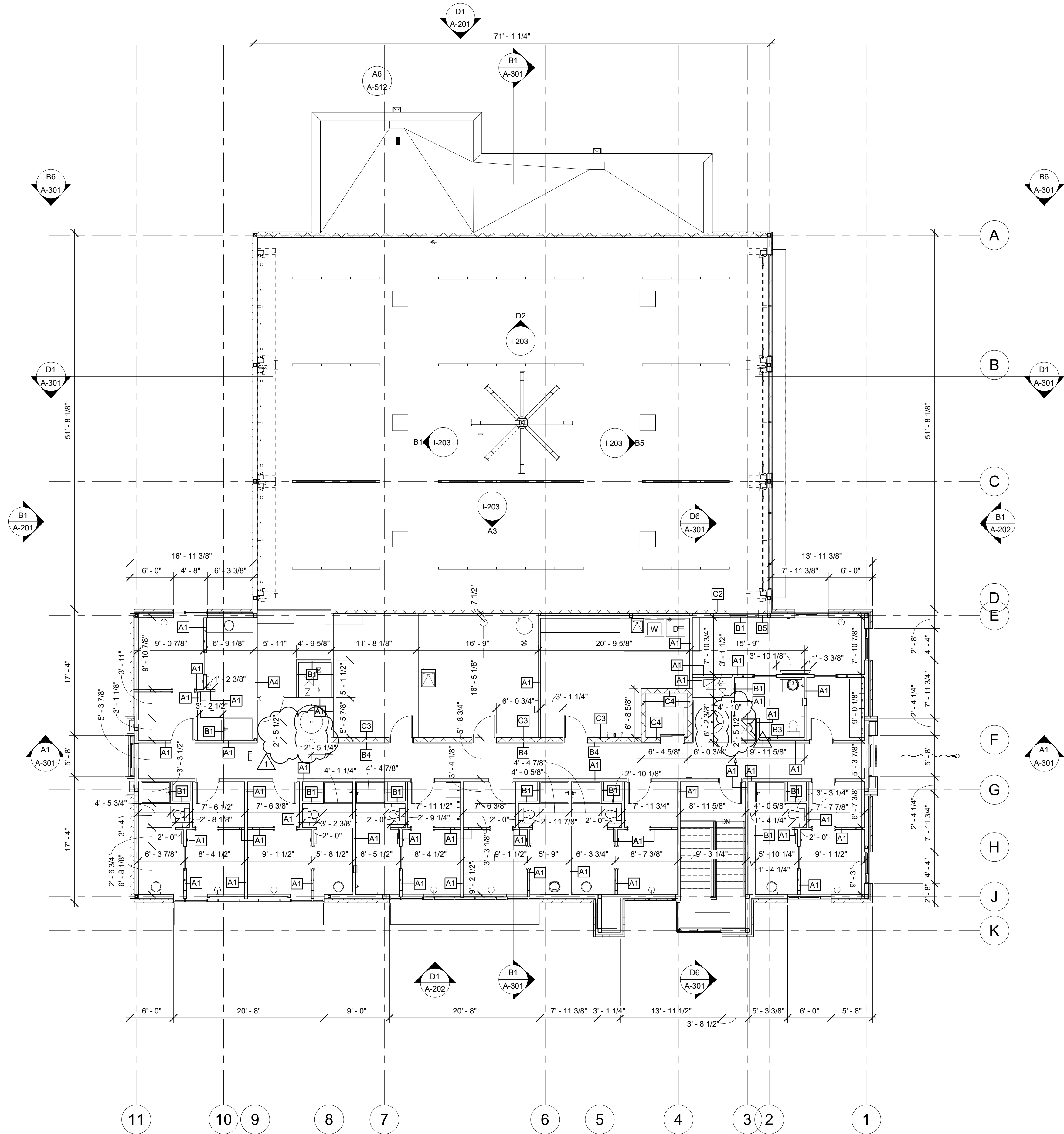
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A



A3 SECOND FLOOR DIMENSION 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 6 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.).
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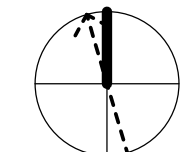
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**SECOND FLOOR
DIMENSION PLAN**

A-104

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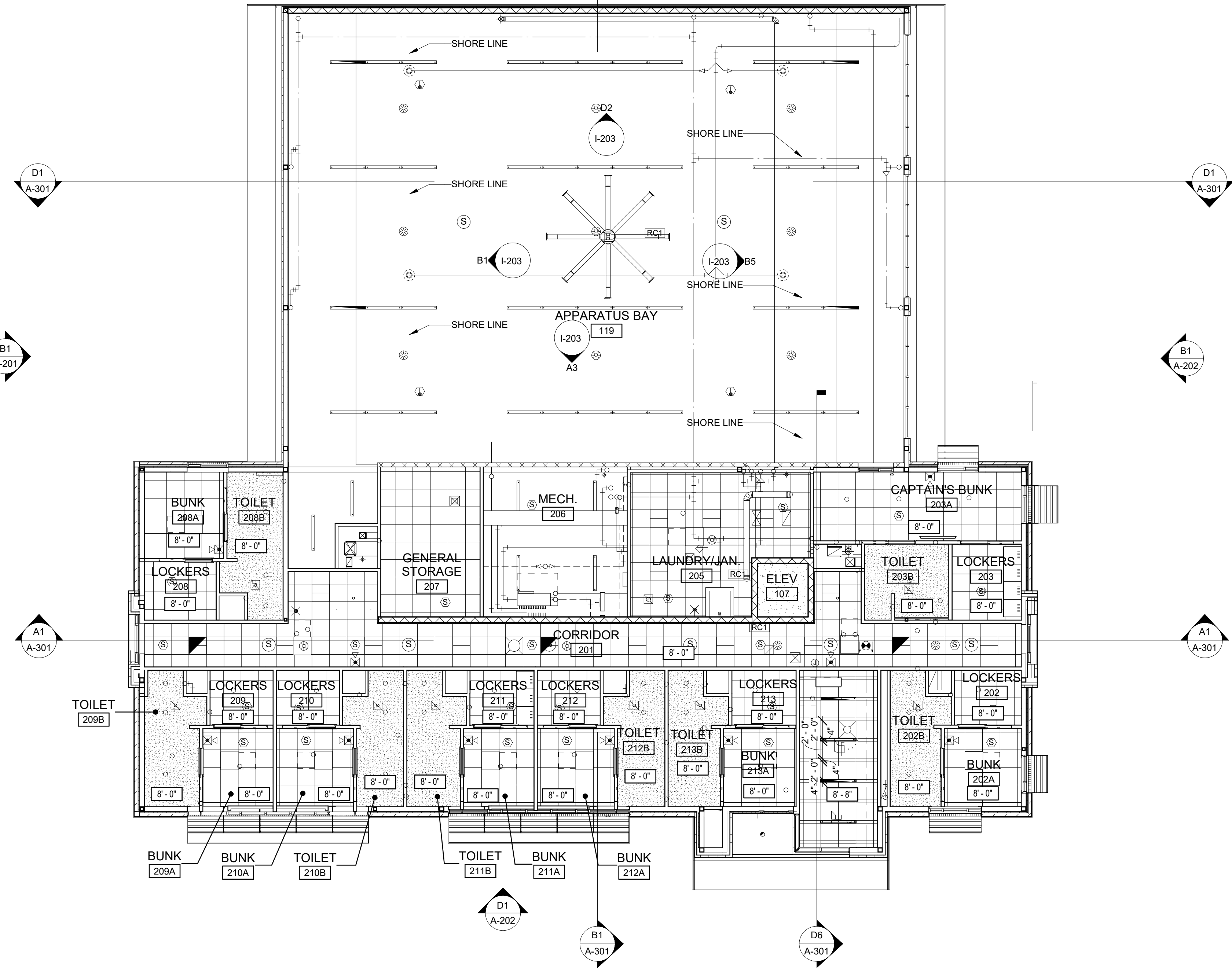
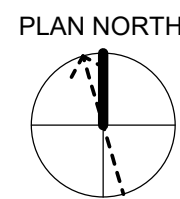


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A1 LEVEL 2 CEILING PLAN

1/8" = 1'-0"

0 4' 8' 16'



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-601 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.

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LEE'S SUMMIT, MISSOURI 64082

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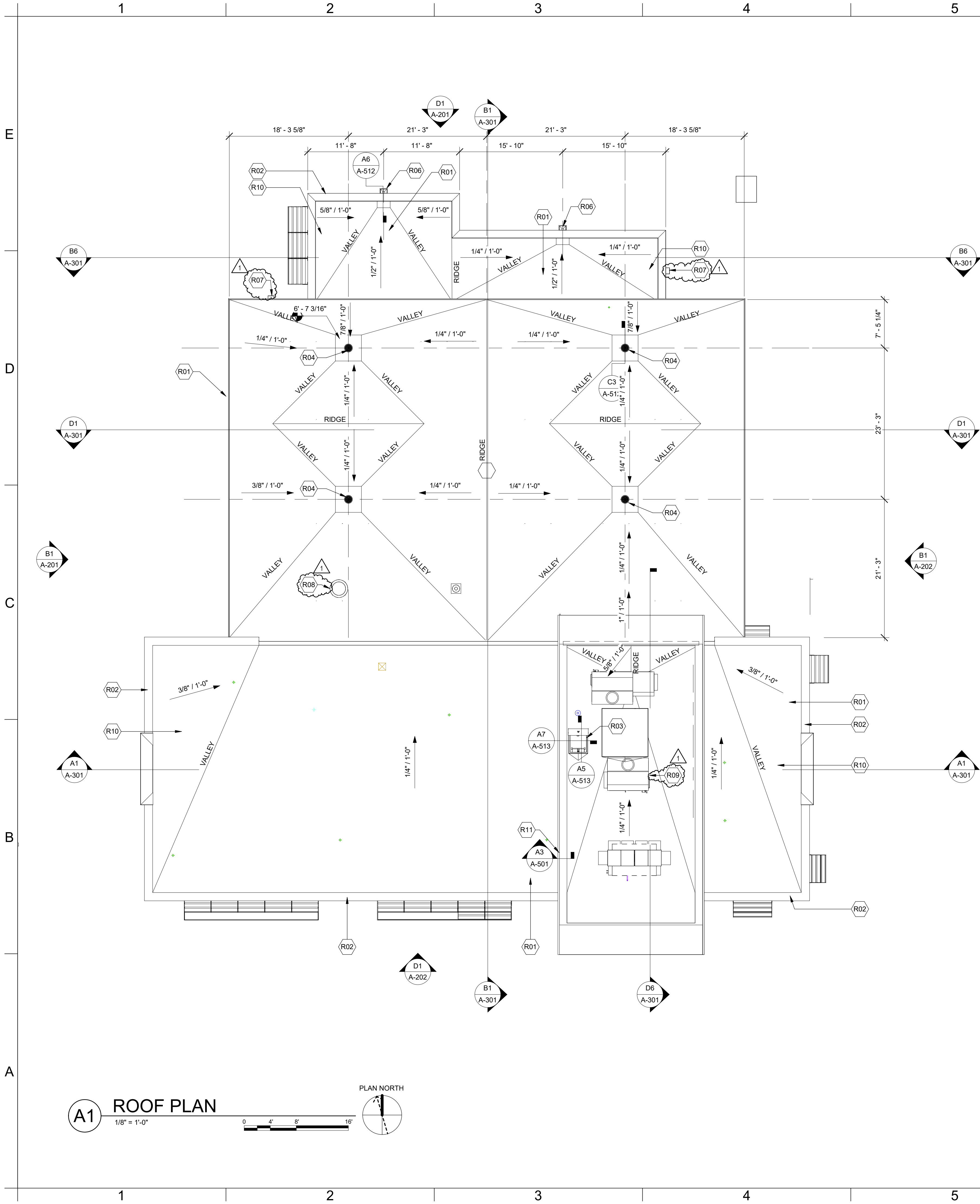
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**SECOND FLOOR
REFLECTED
CEILING PLAN**

A-112

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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.)
R05	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



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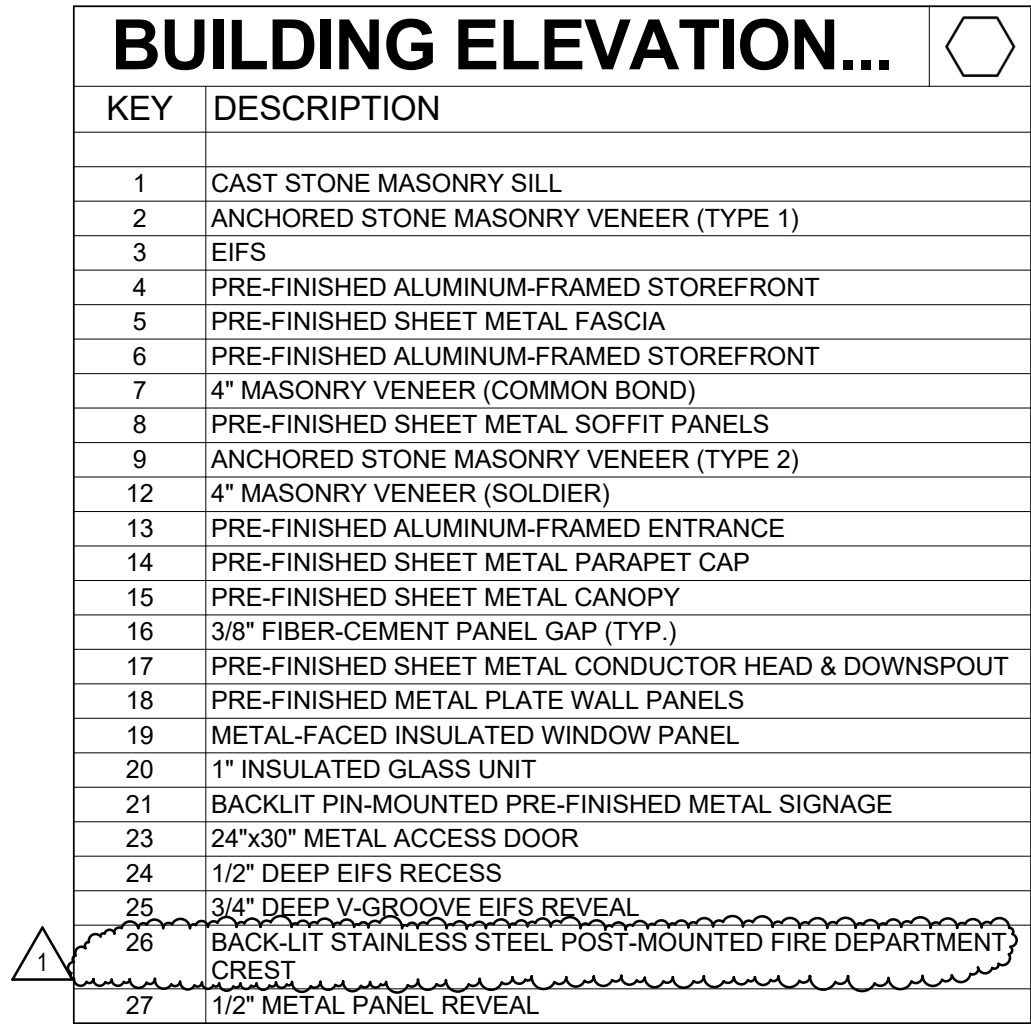
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ROOF PLAN

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B1 EAST ELEVATION

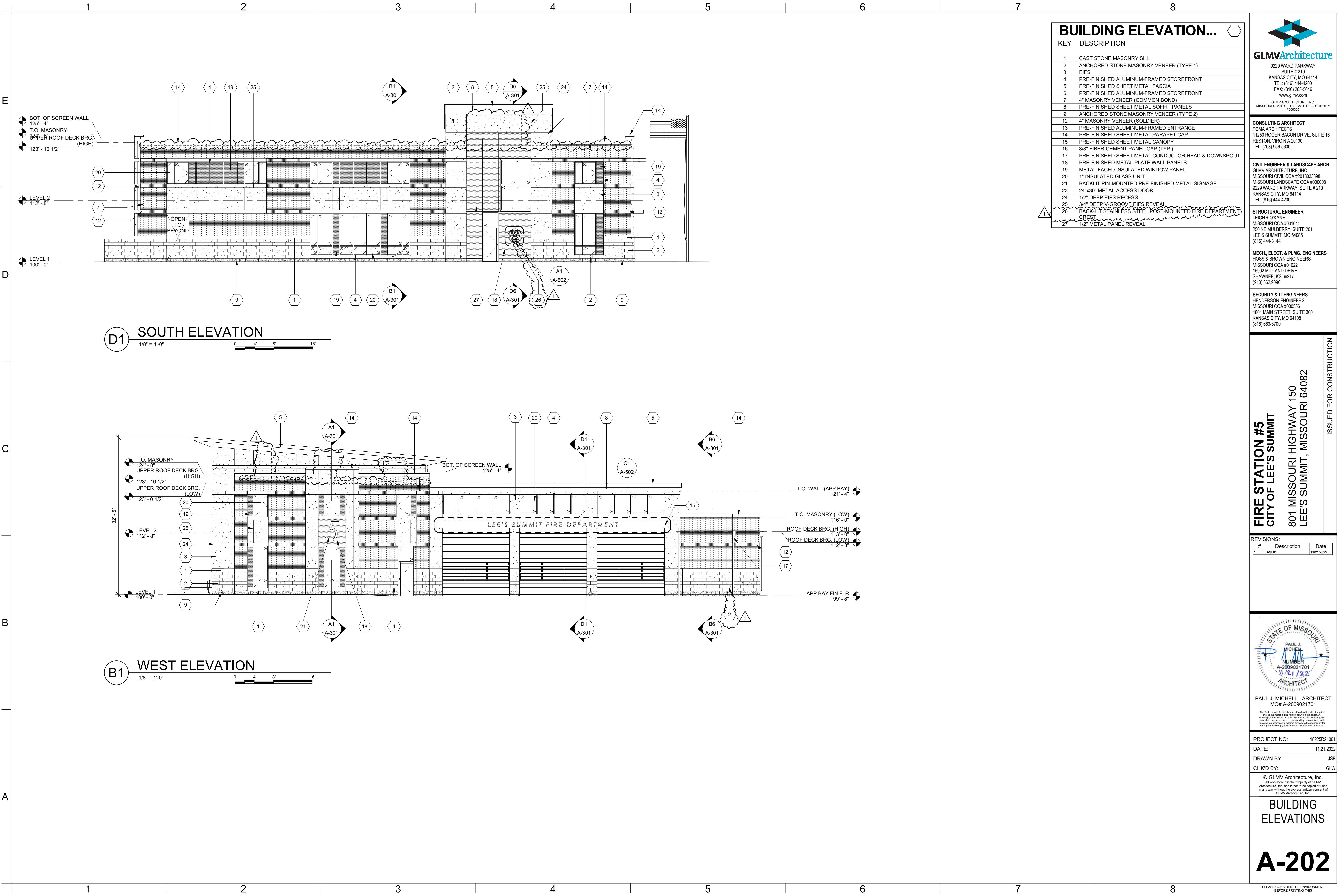
1/8" = 1'-0"

0 4' 8' 16'

Annotations:

- T.O. MASONRY (LOW) 116'-0"
- ROOF DECK BRG. (HIGH) 113'-0"
- ROOF DECK BRG. (LOW) 112'-8"
- APP BAY FIN FLR 99'-8"
- LEVEL 2 112'-8"
- LEVEL 1 100'-0"
- B6 A-301
- D1 A-301
- D1 A-502
- A1 A-301

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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
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



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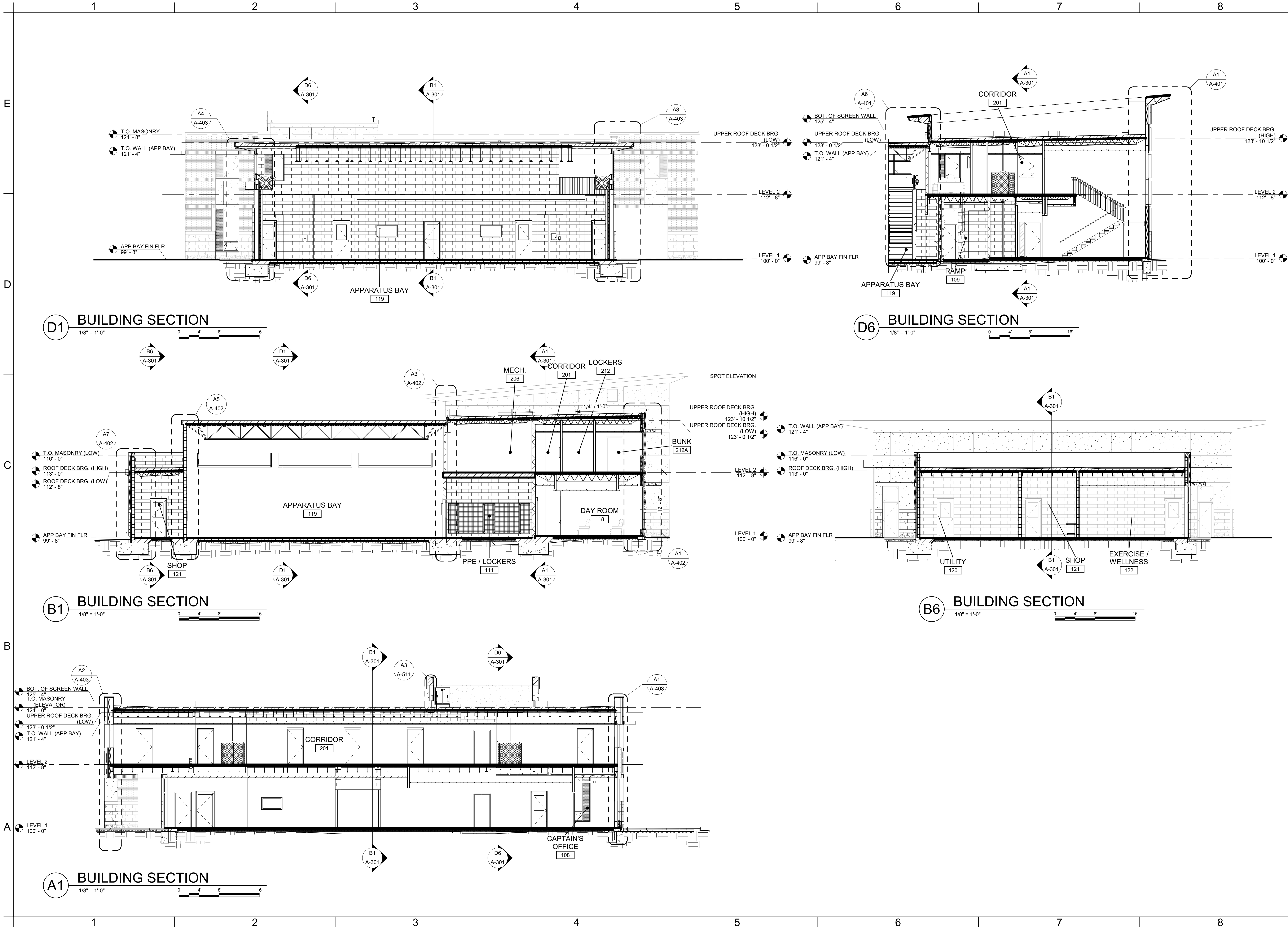
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BUILDING ELEVATIONS

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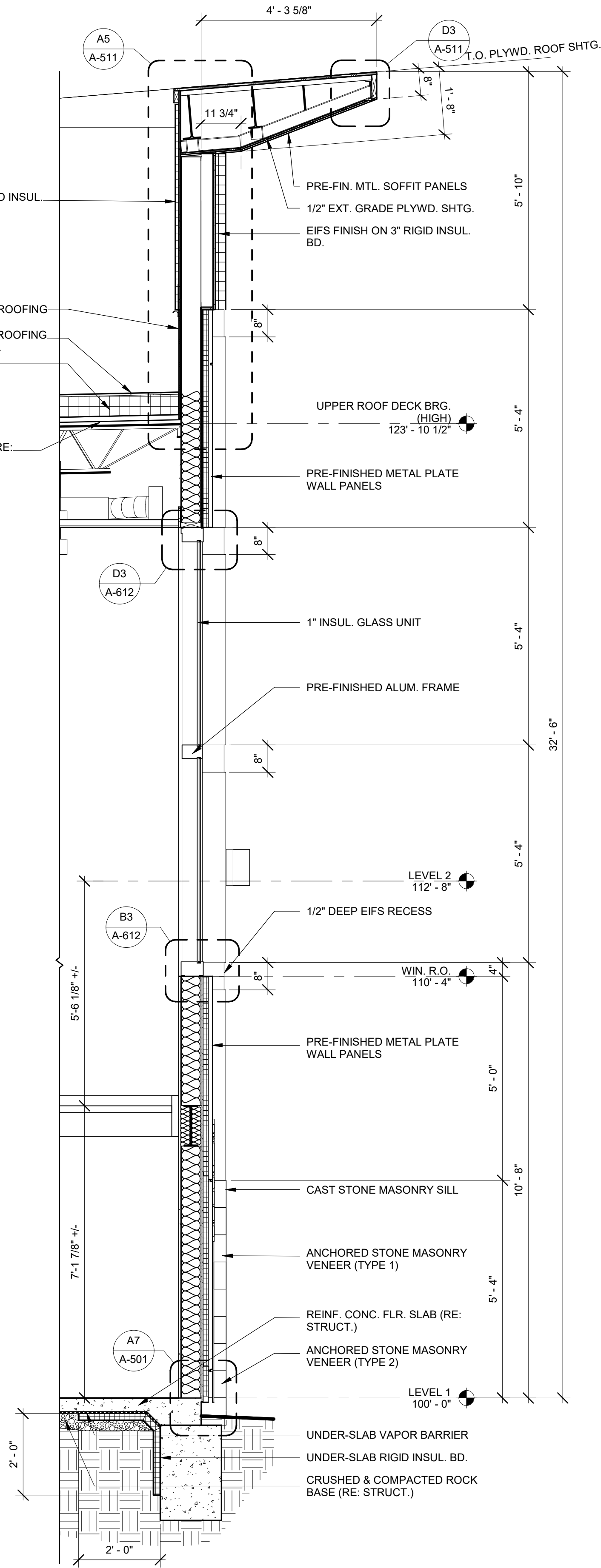
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BUILDING SECTIONS

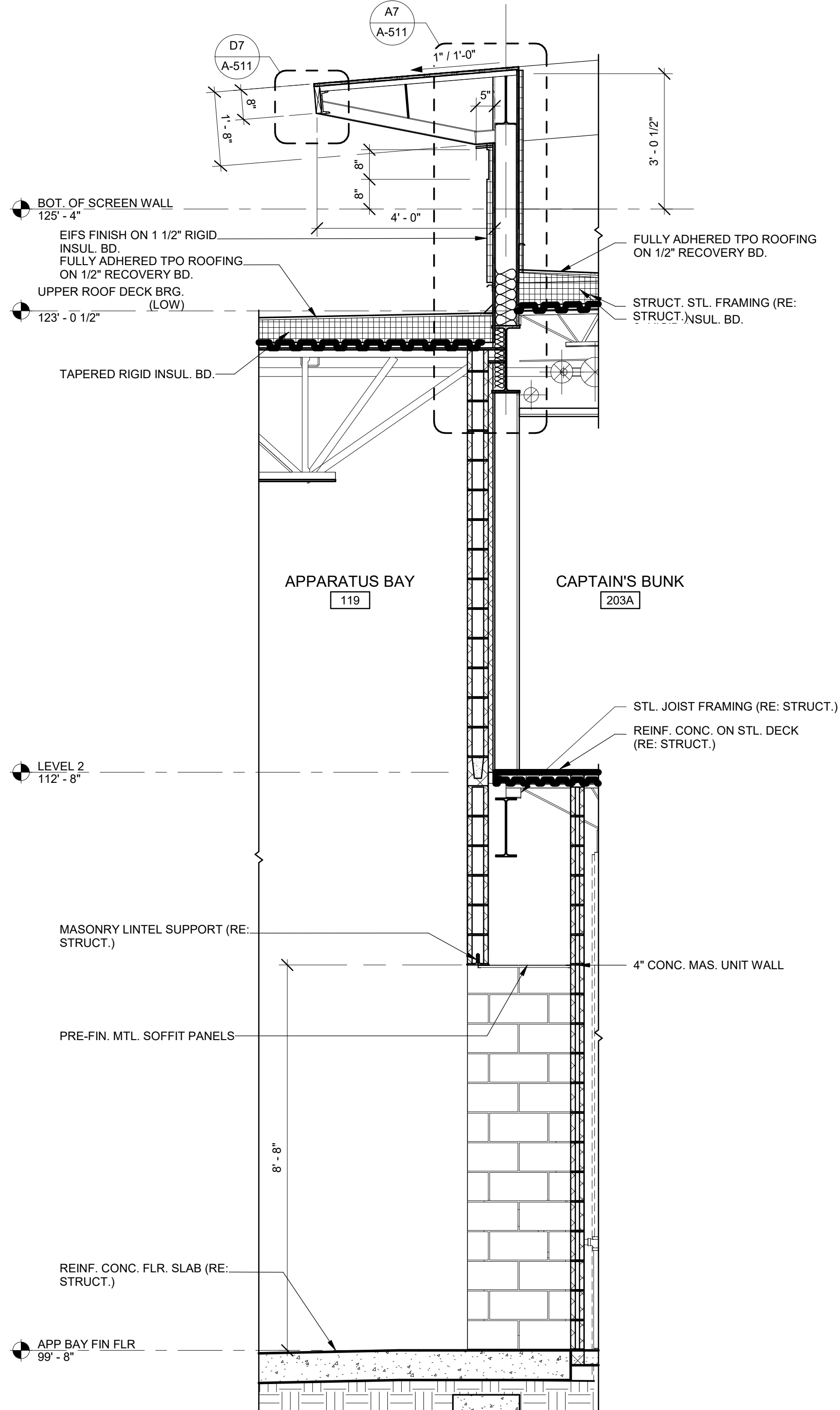
A-301

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A1 STAIR SECTION
1/2" = 1'-0"



A6 WALL SECTION
1/2" = 1'-0"



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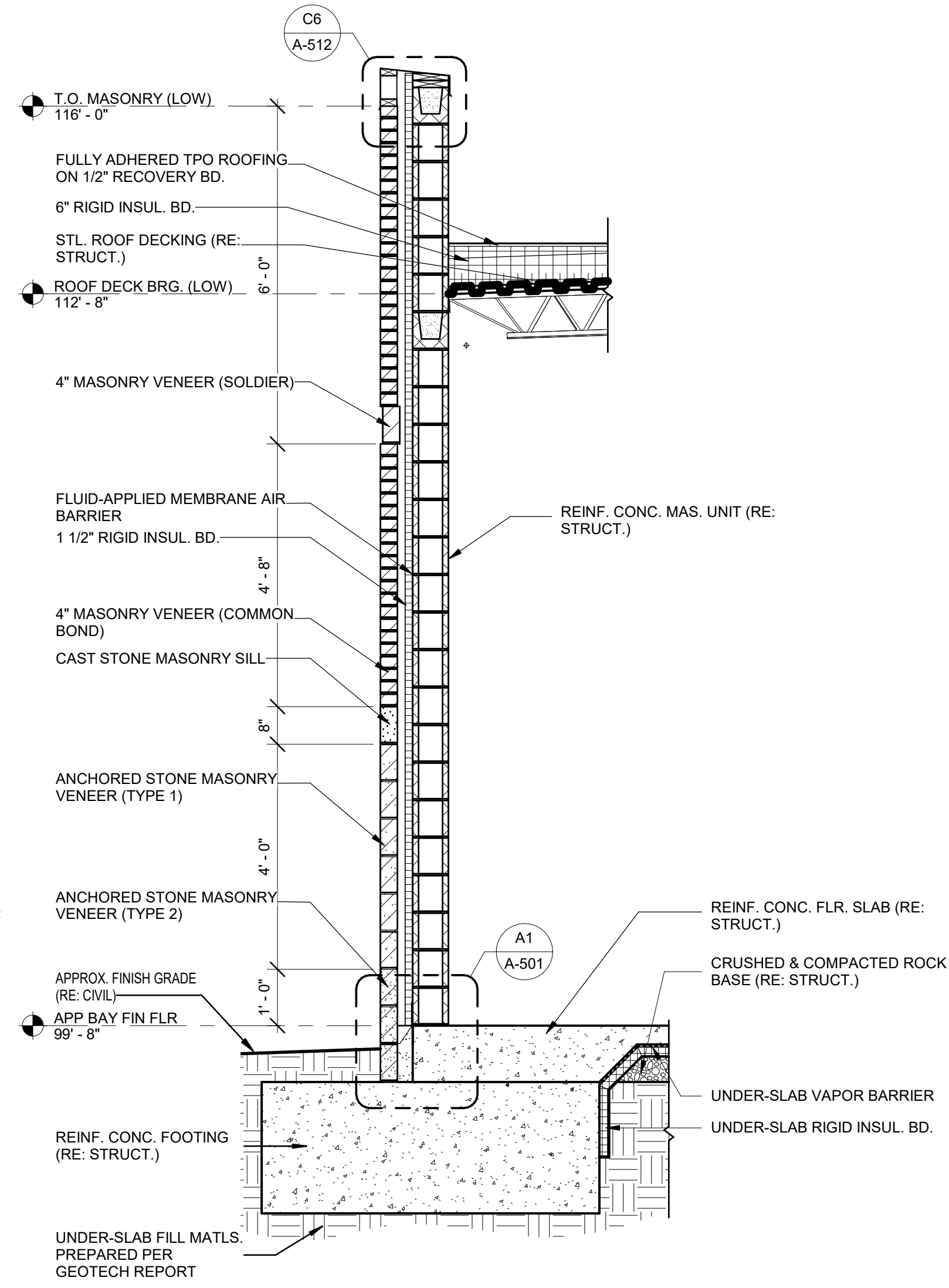
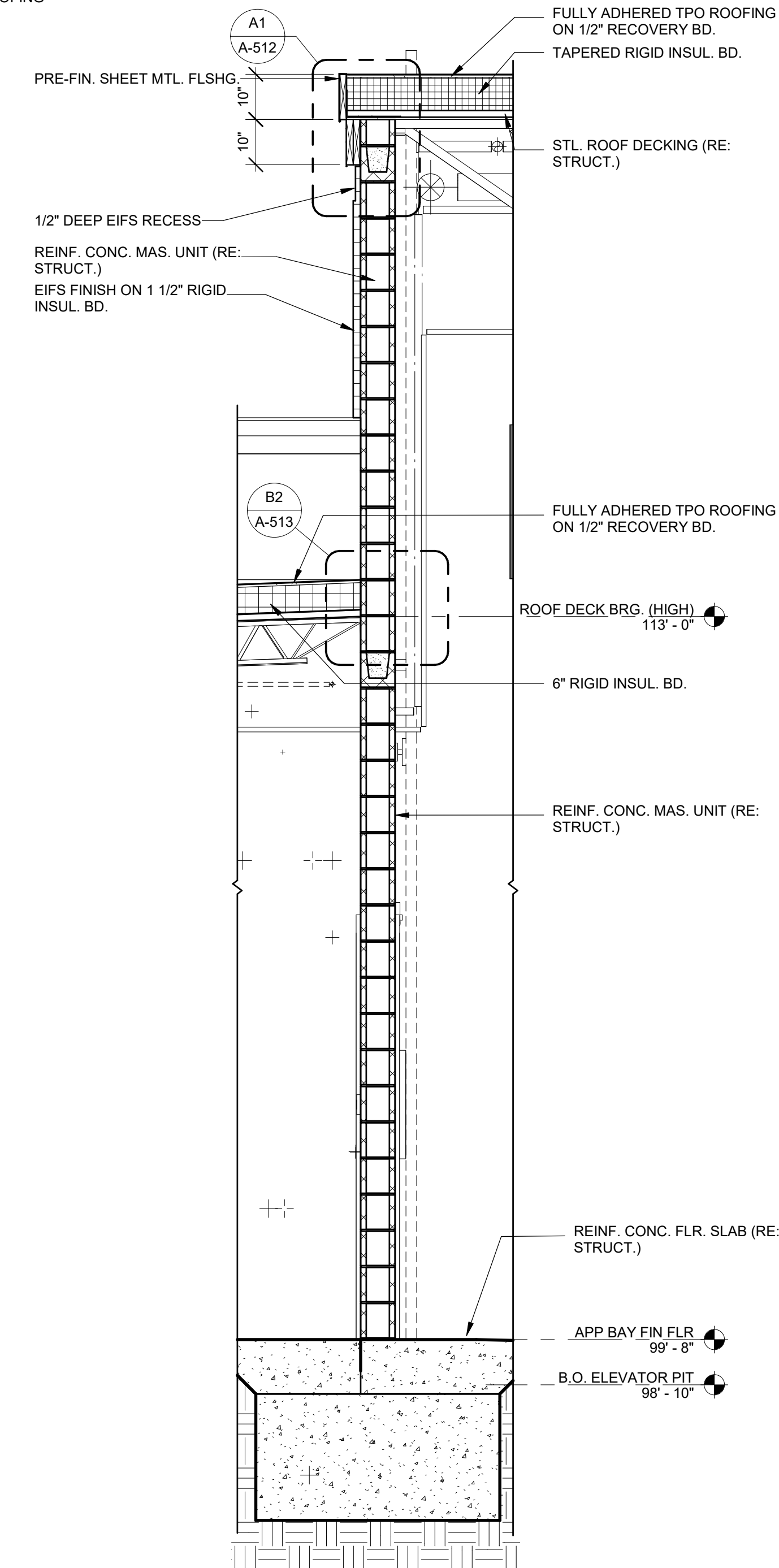
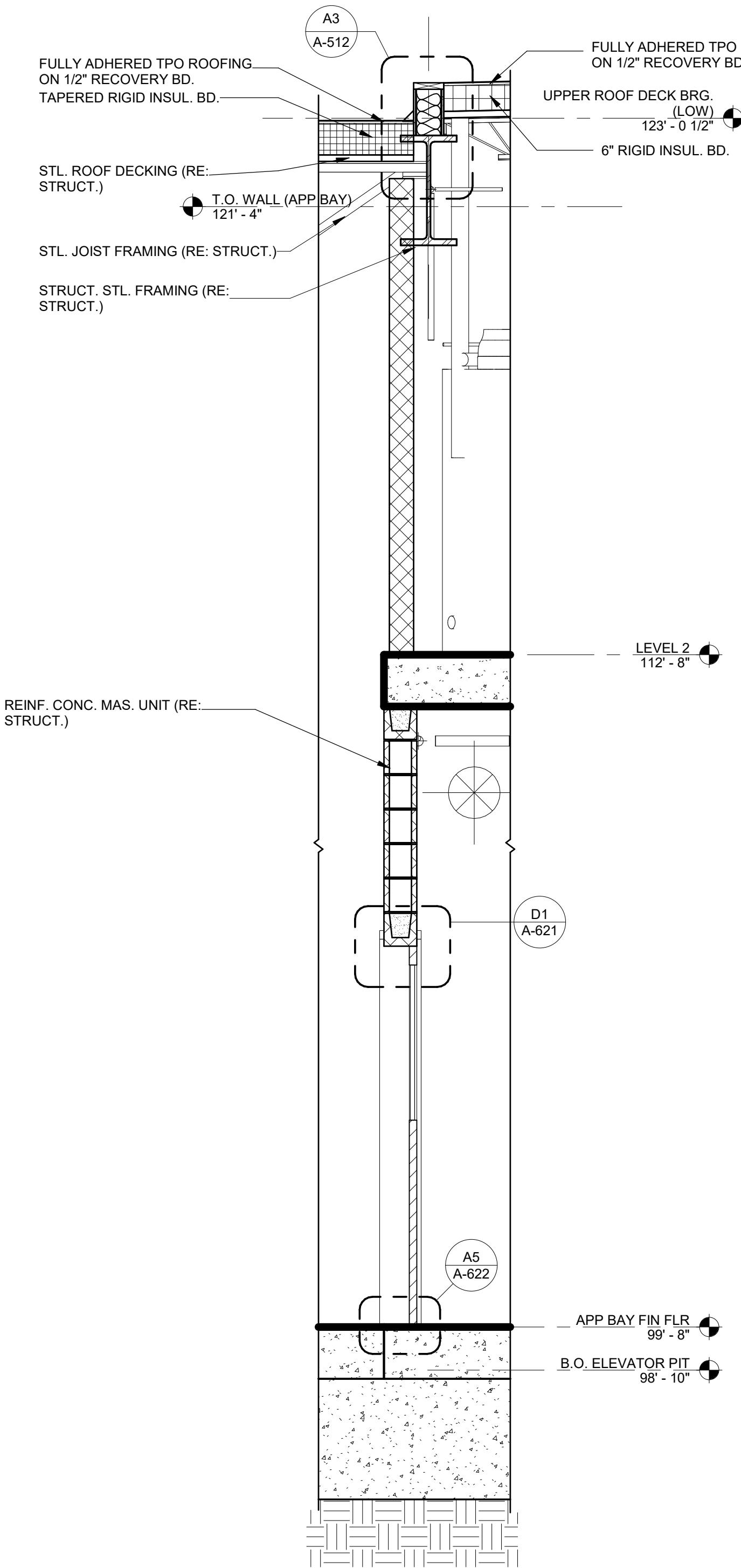
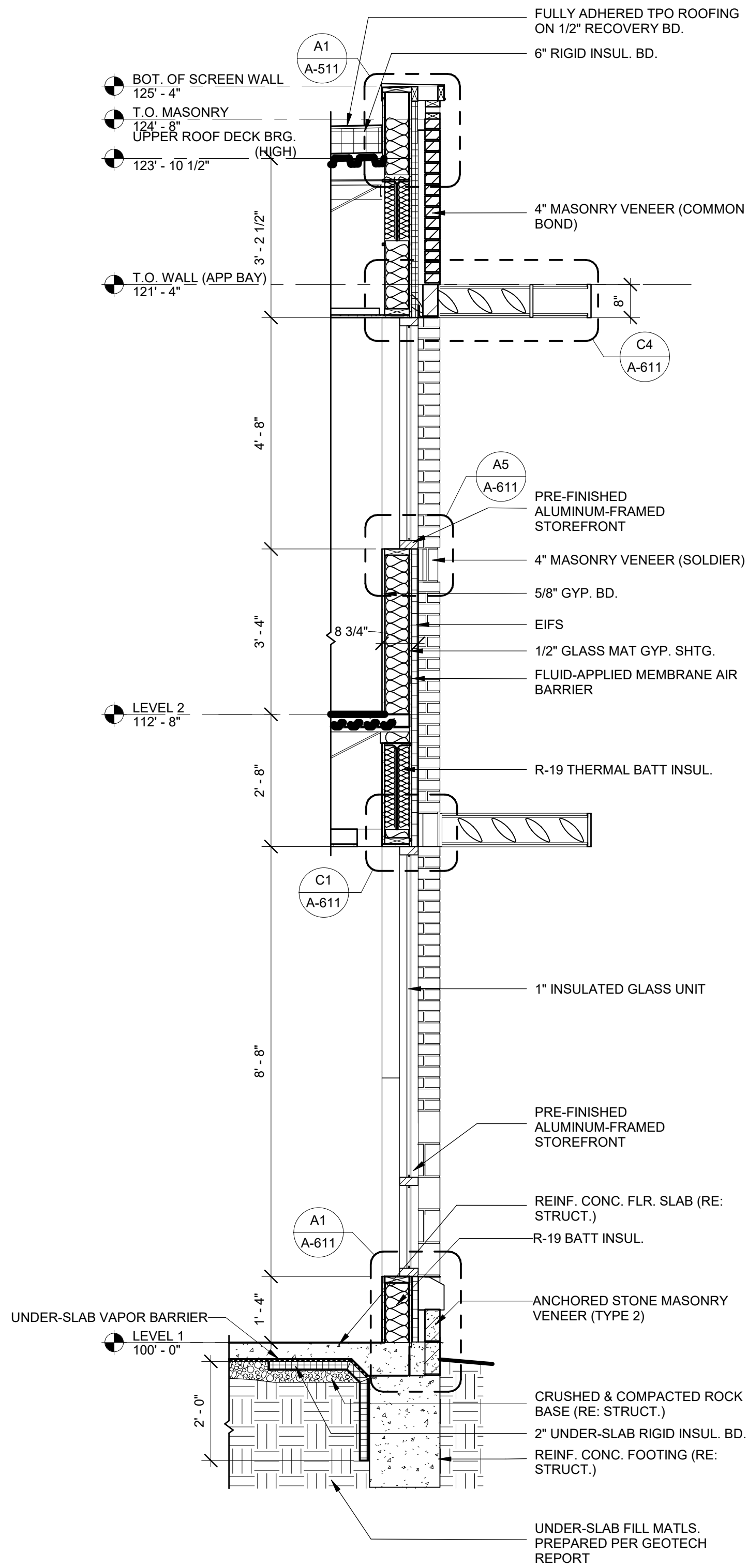
WALL SECTIONS

A-401

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E
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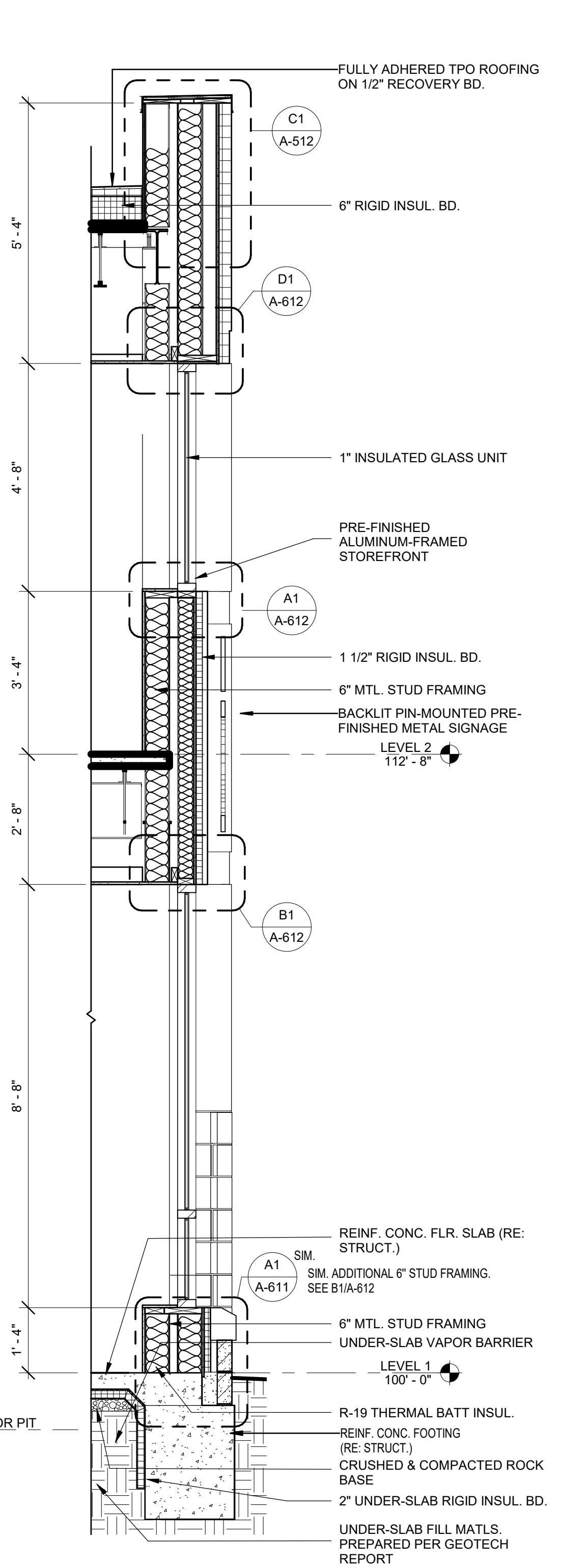
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WALL SECTIONS

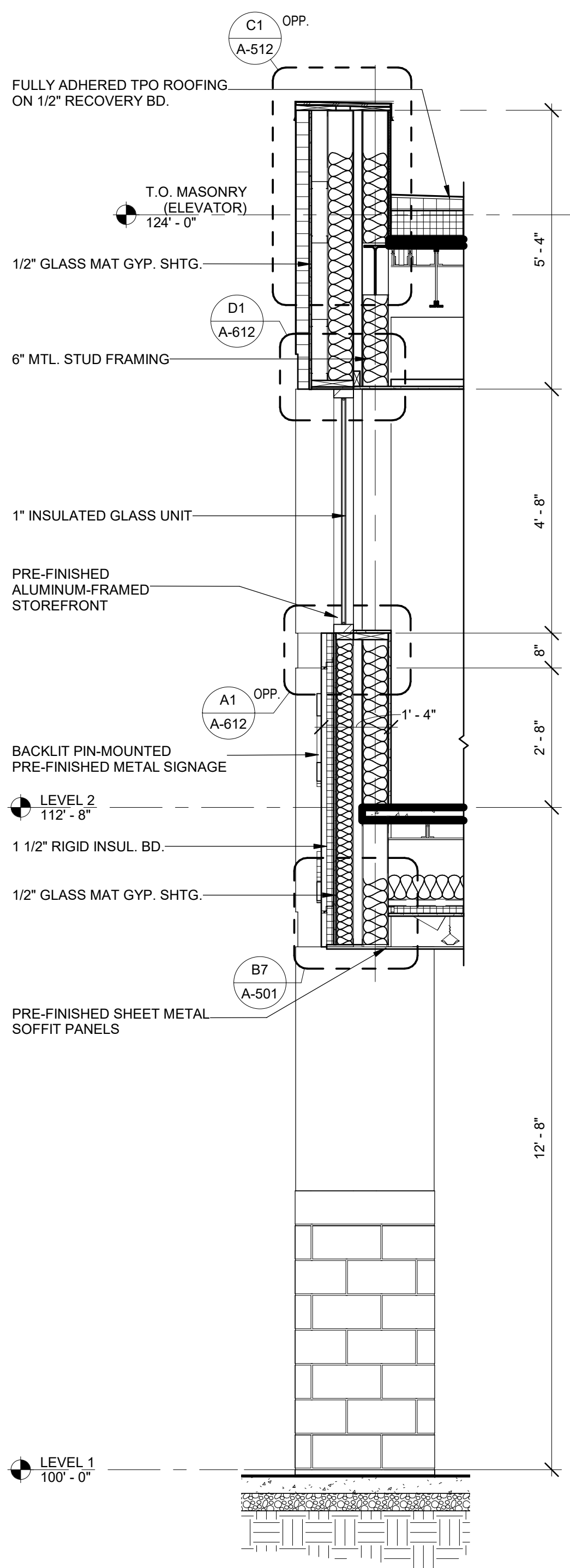
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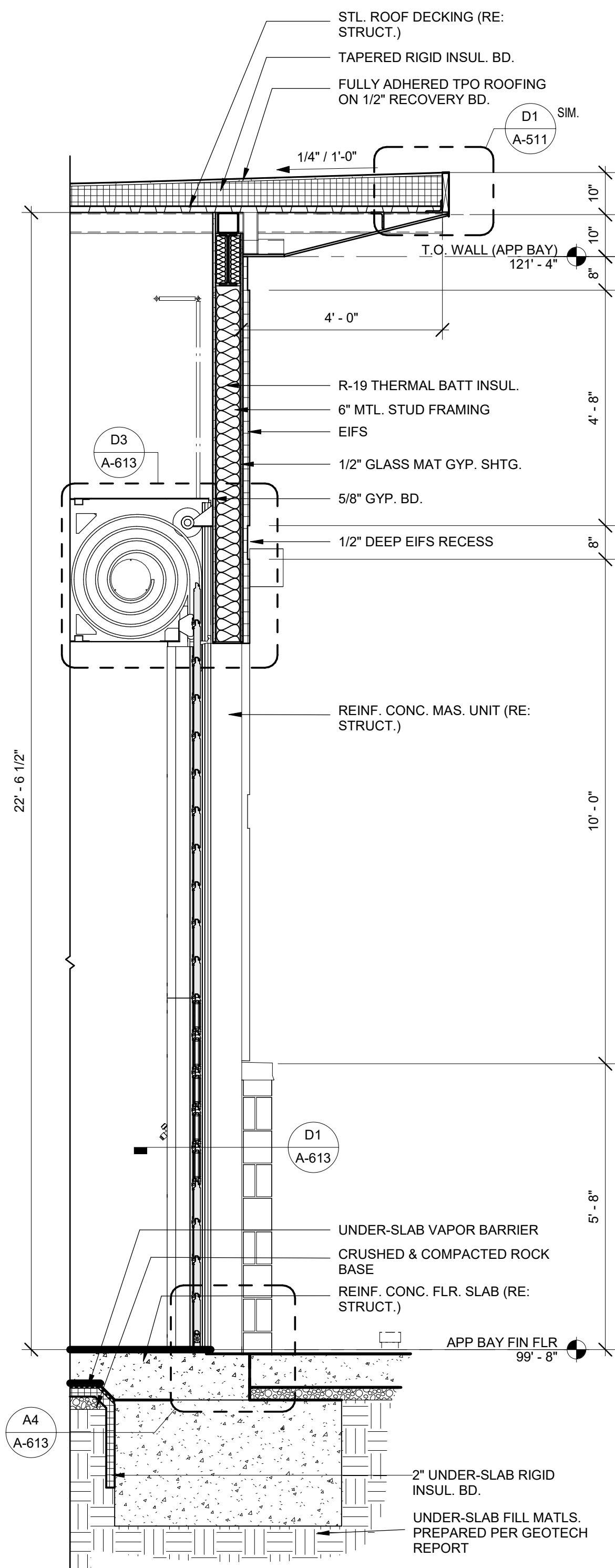
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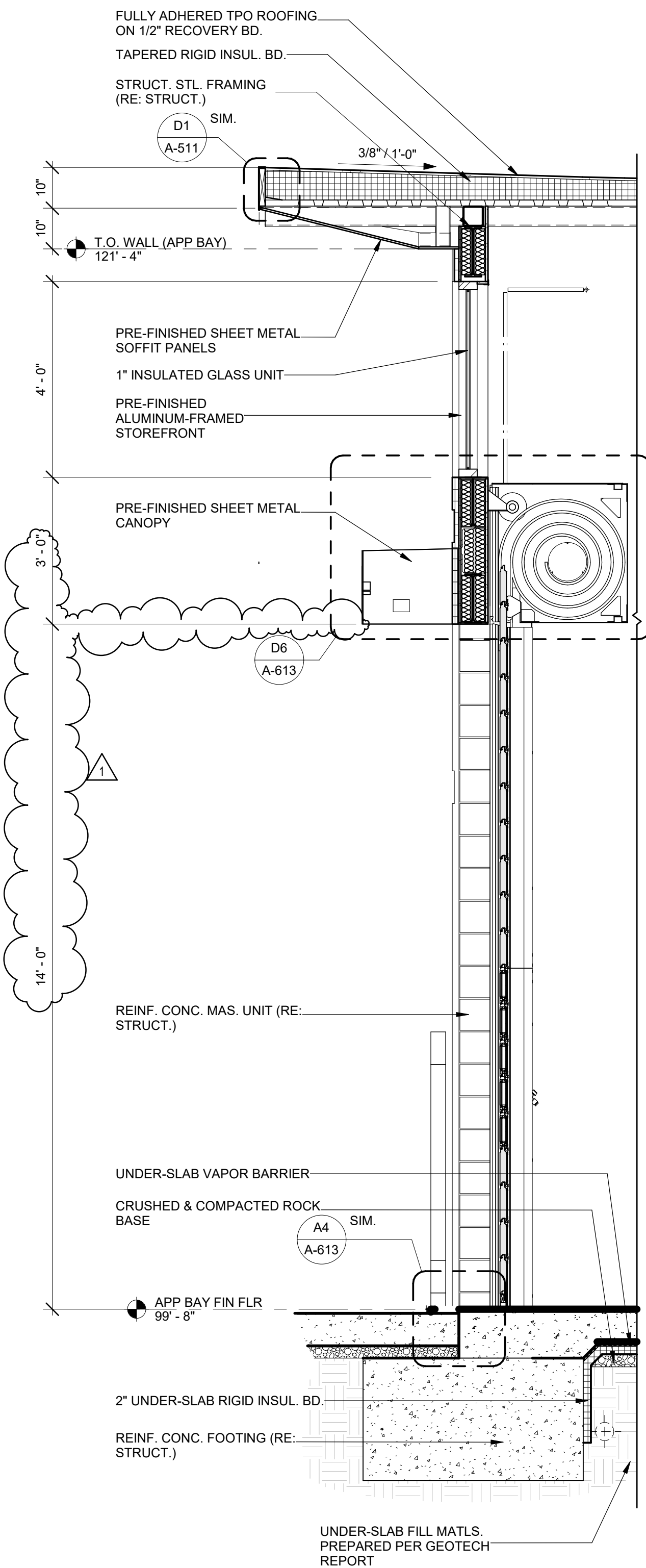
A1 WALL SECTION
1/2" = 1'-0"



A2 WALL SECTION
1/2" = 1'-0"

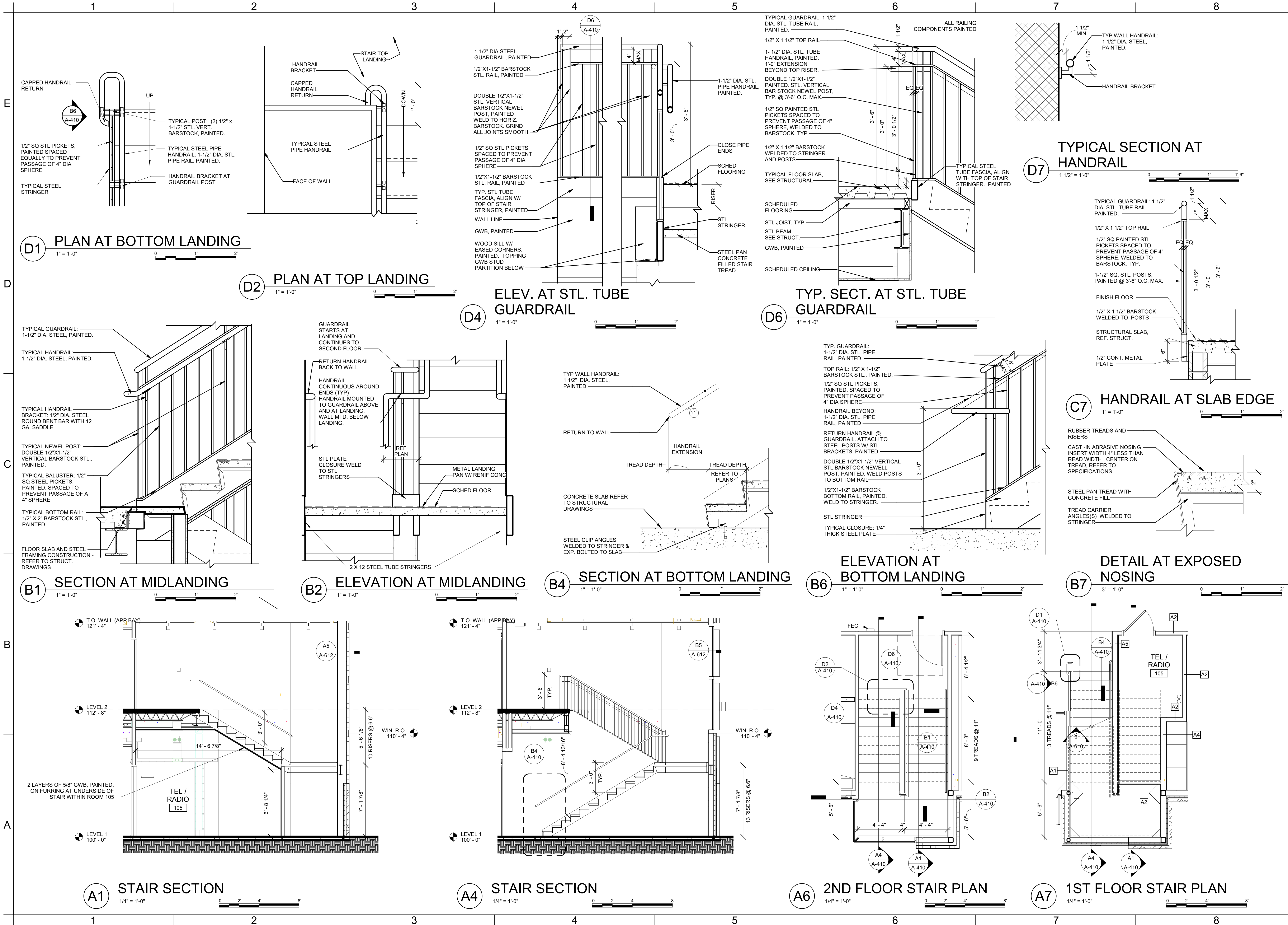


A3 WALL SECTION
1/2" = 1'-0"



A4 WALL SECTION
1/2" = 1'-0"

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ENLARGED STAIR PLAN AND SECTION

A-410

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E

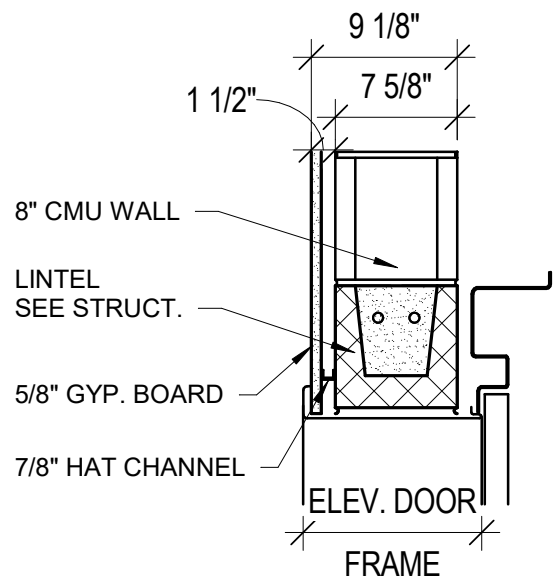
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C

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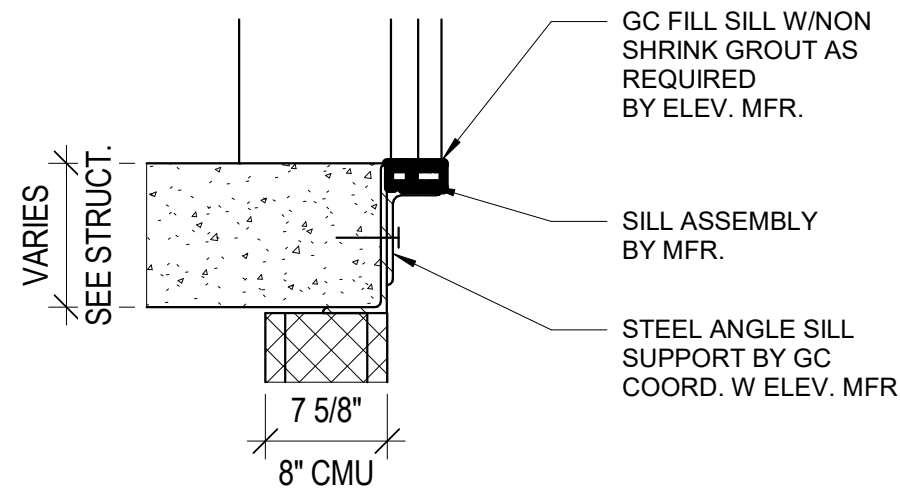
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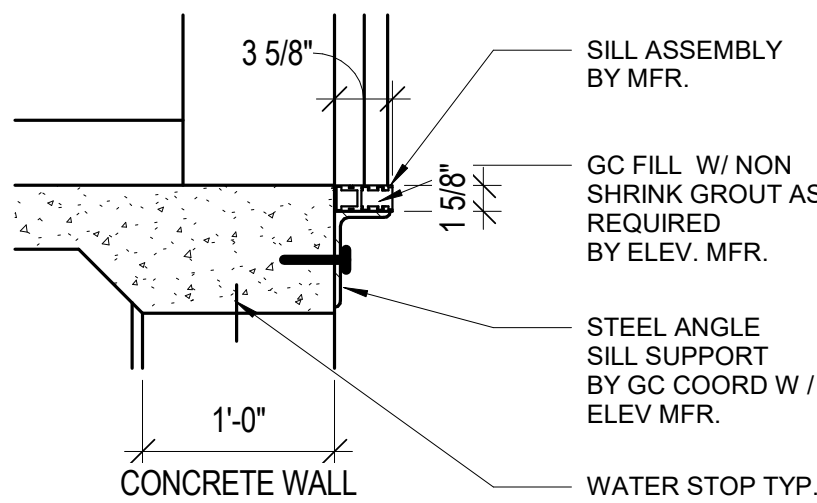
ELEVATOR DOOR HEAD - TYP.

C5



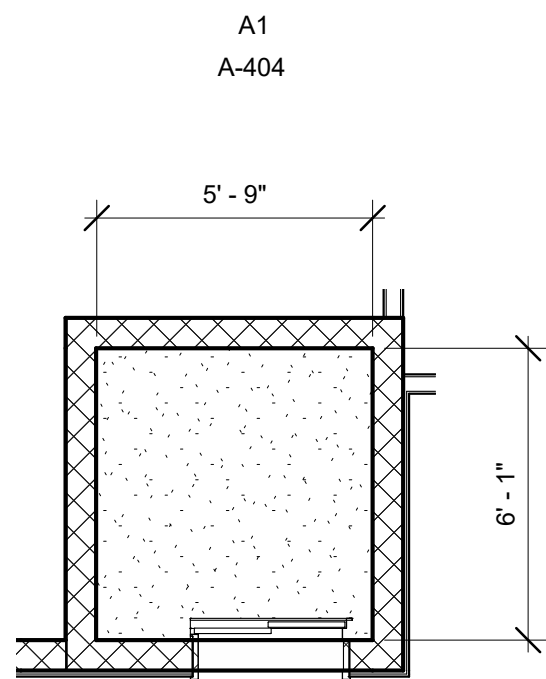
ELEVATOR - DOOR SILL TYP.

B5



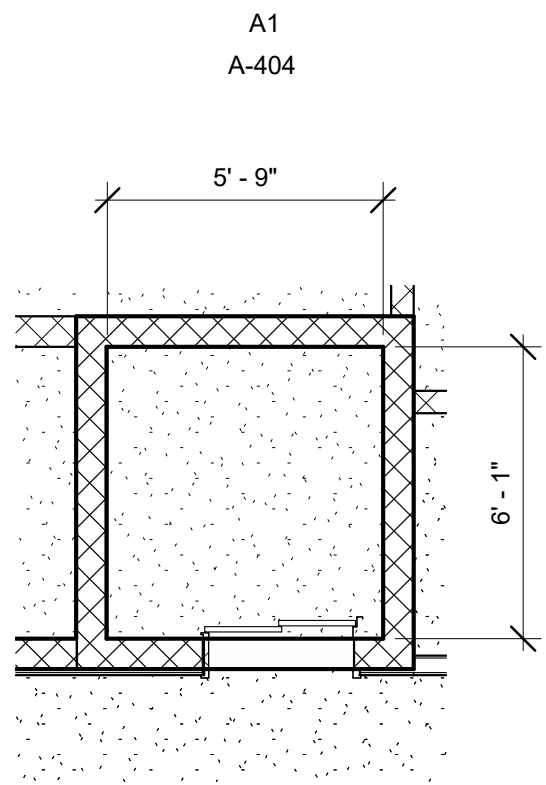
ELEVATOR DOOR SILL 1ST FLOOR

A5



ENL. ELEVATOR PLAN - 2ND FLOOR

B7



ENL. ELEVATOR PLAN - 1ST FLOOR

A7



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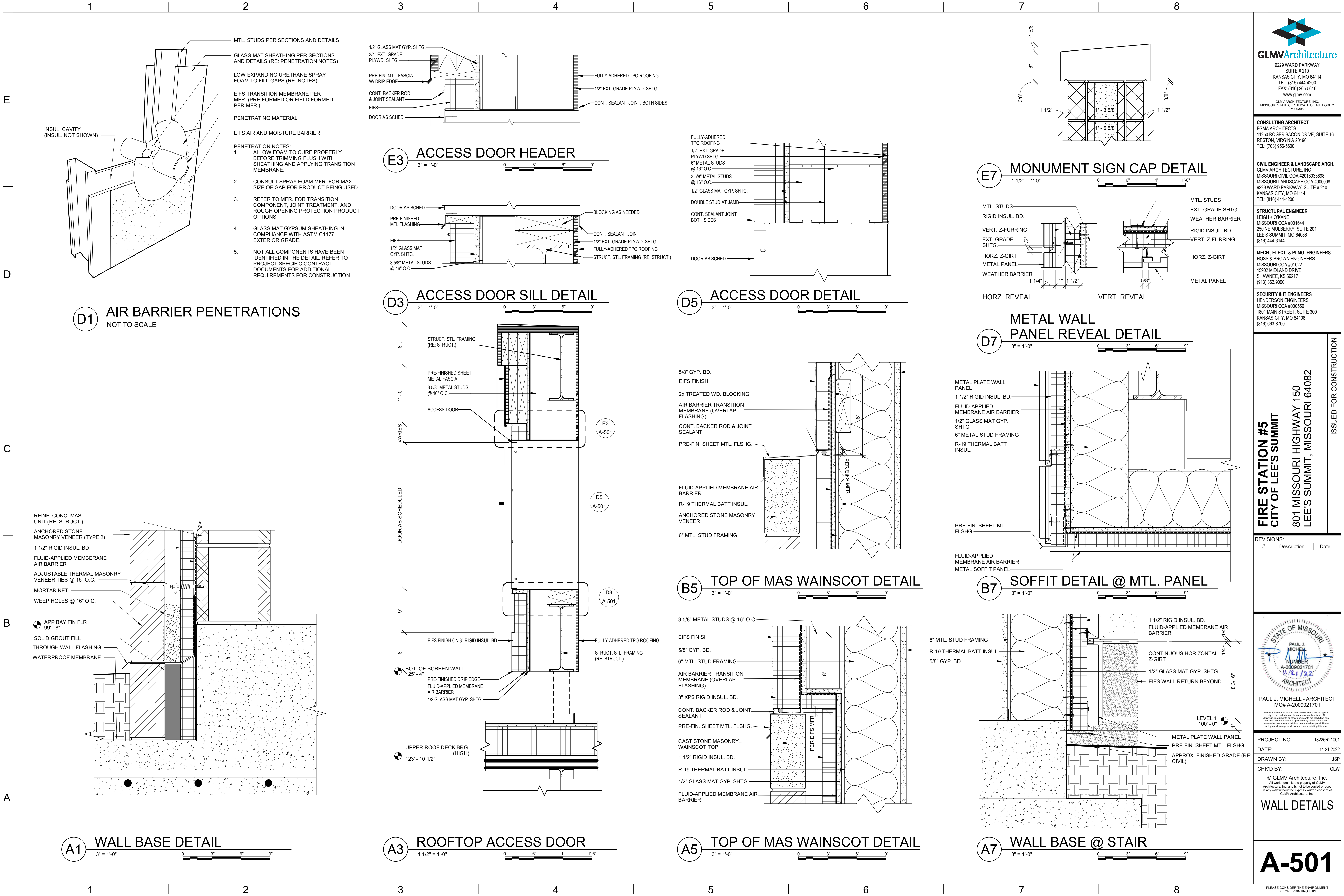
**ENLARGED
ELEVATOR PLAN**

A-411

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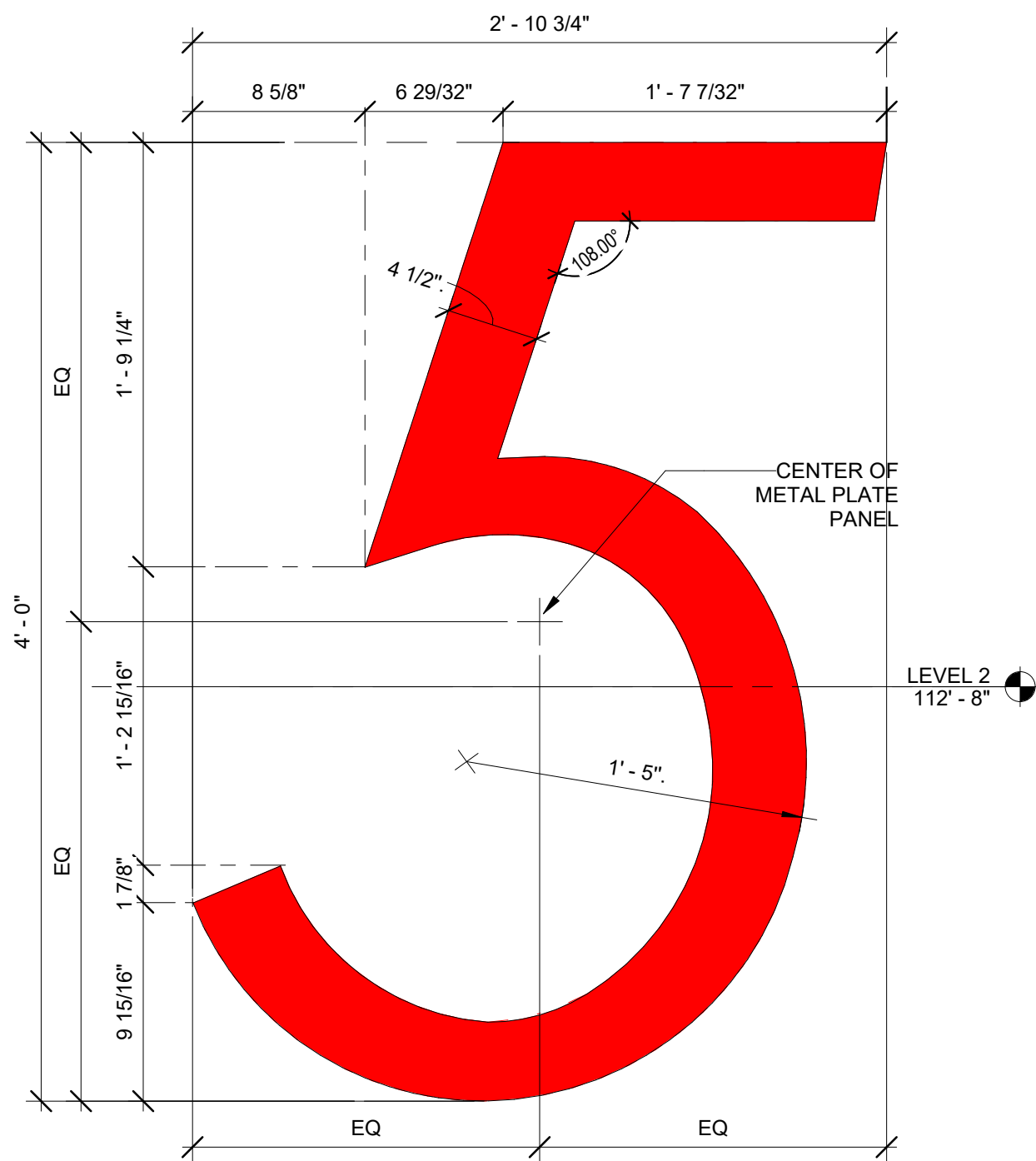
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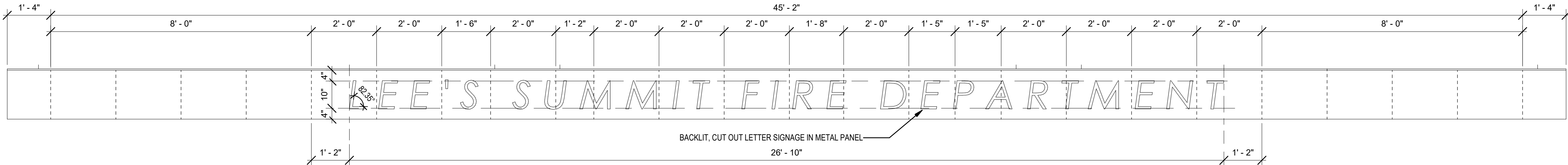
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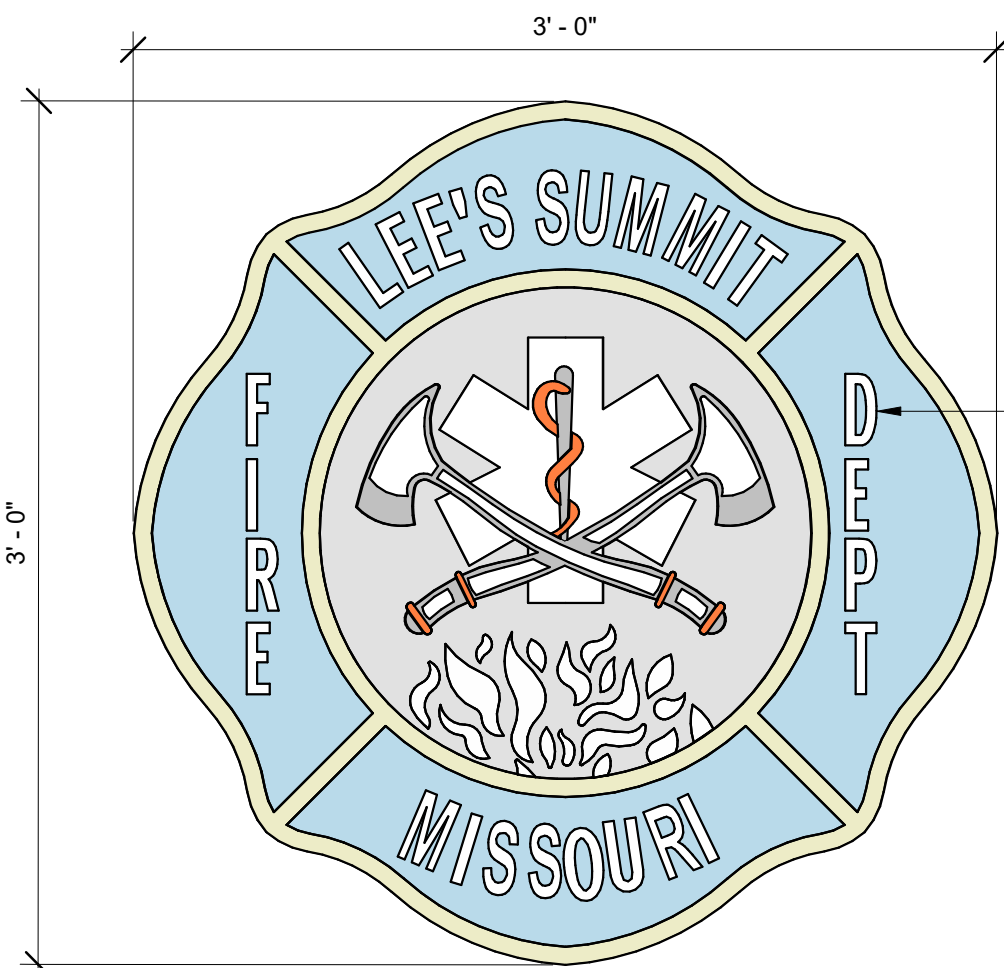
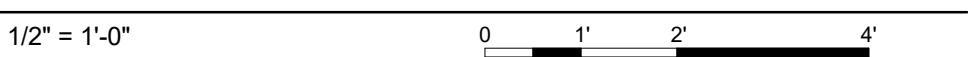
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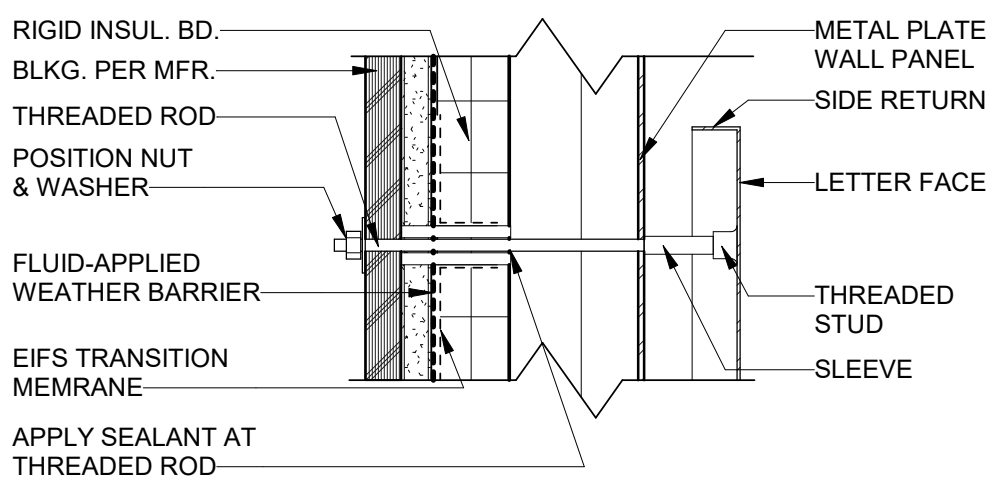
D1 SIGNAGE DETAIL



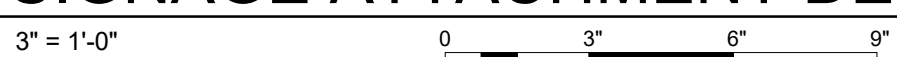
C1 CANOPY SIGN DETAIL



- 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.



A4 SIGNAGE ATTACHMENT DETAIL



A1 FIRE DEPARTMENT CREST



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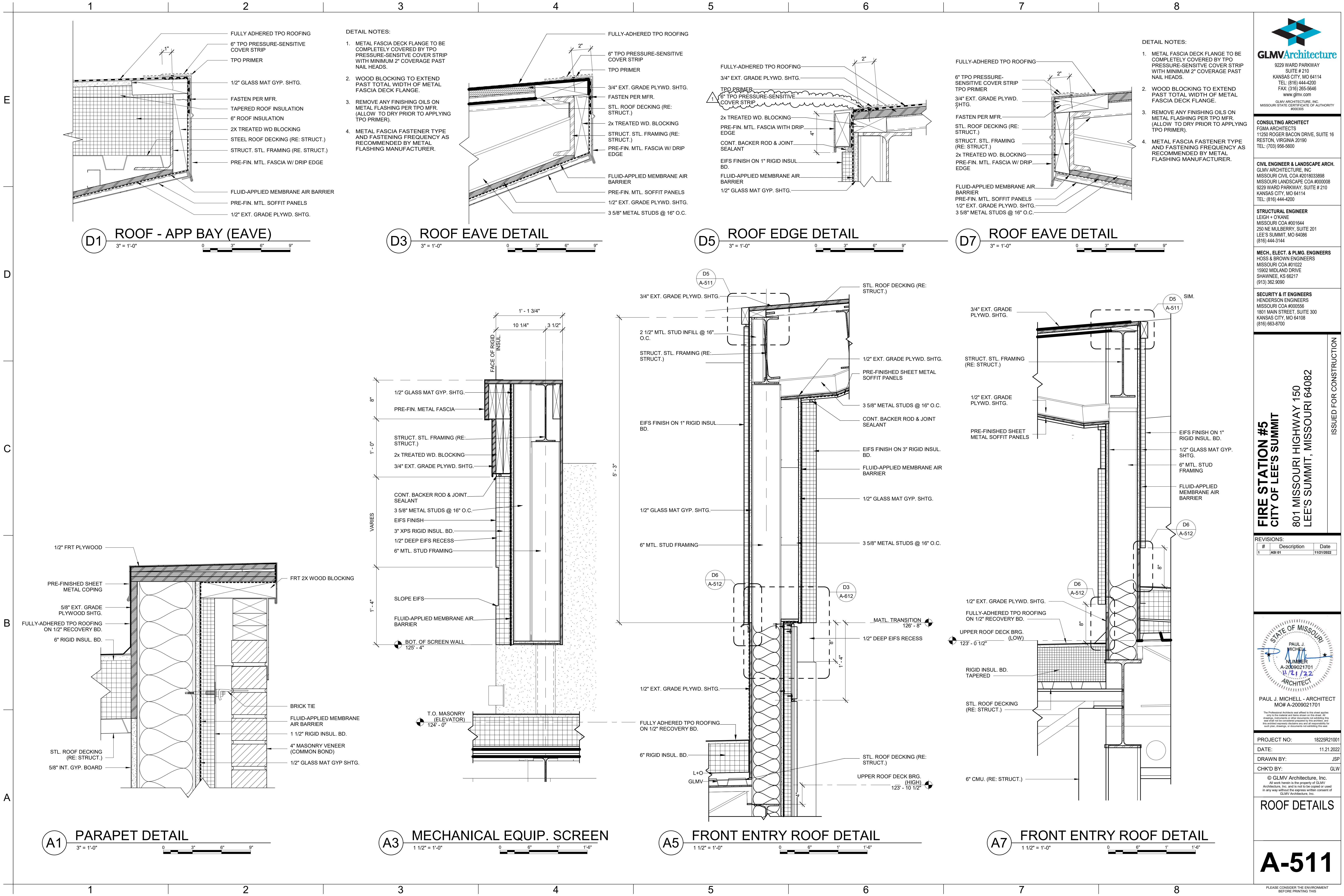
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WALL DETAILS

A-502

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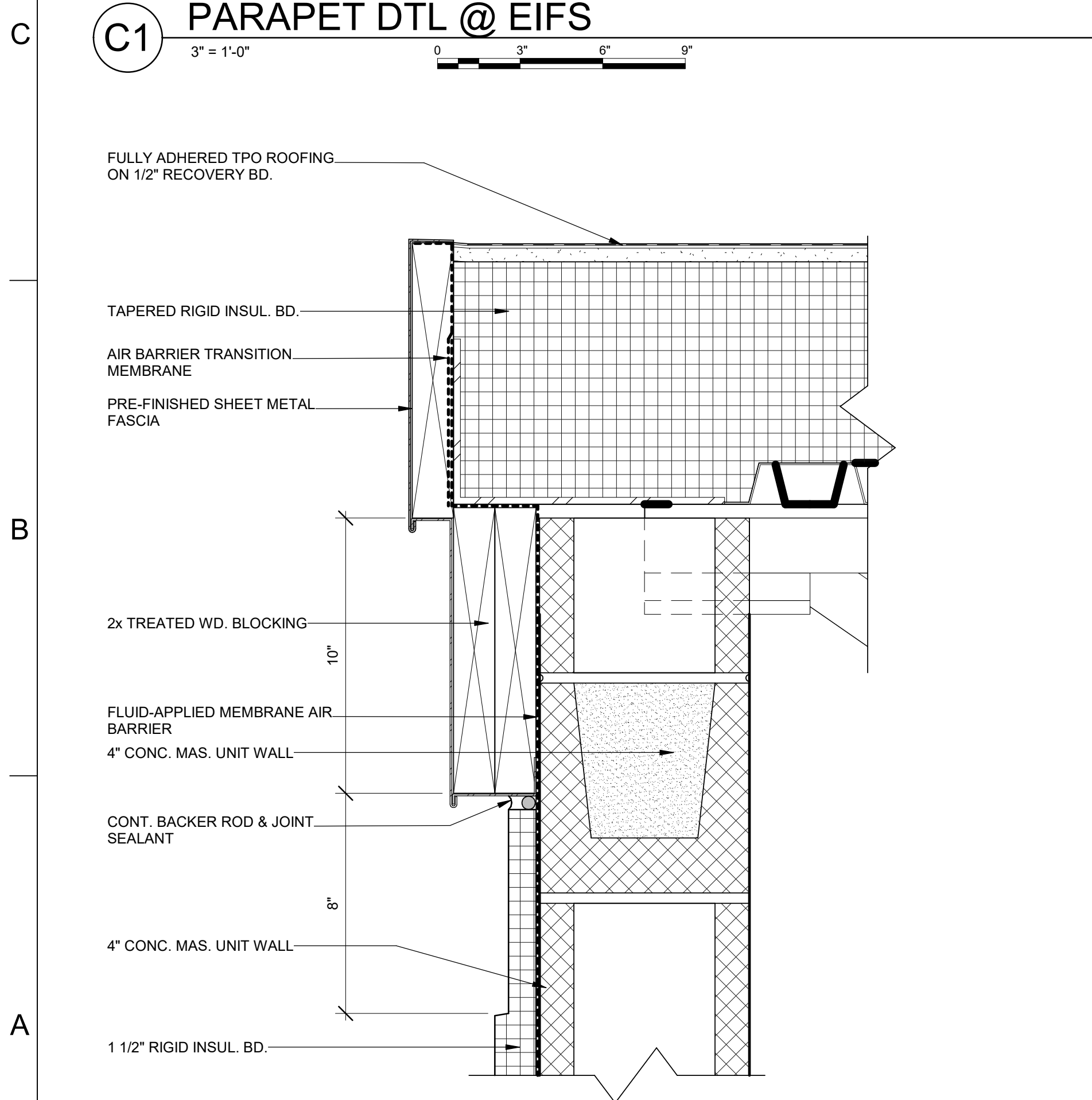
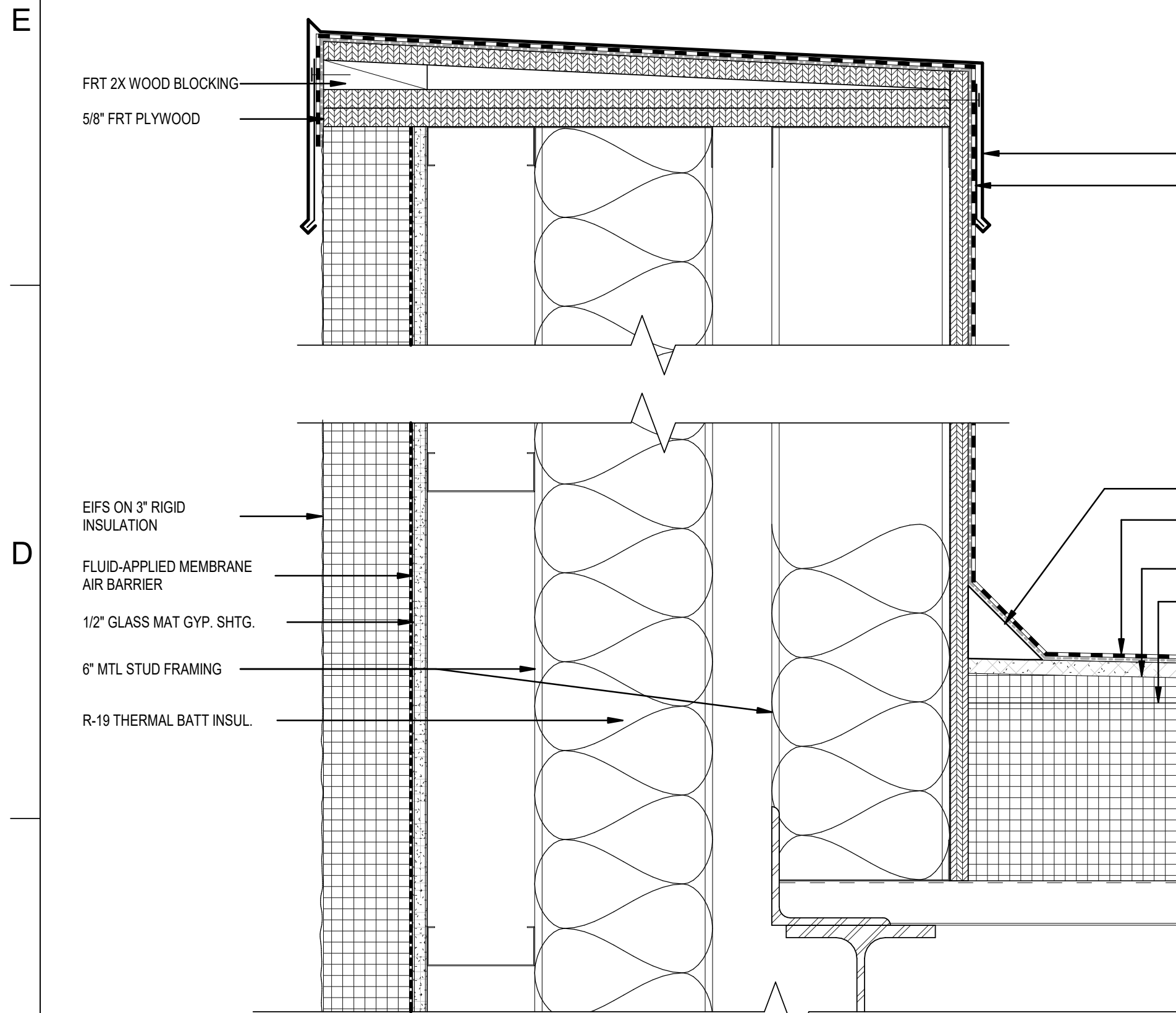
PROJECT NO: 18225R21001
DATE: 11.21.2022
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ROOF DETAILS

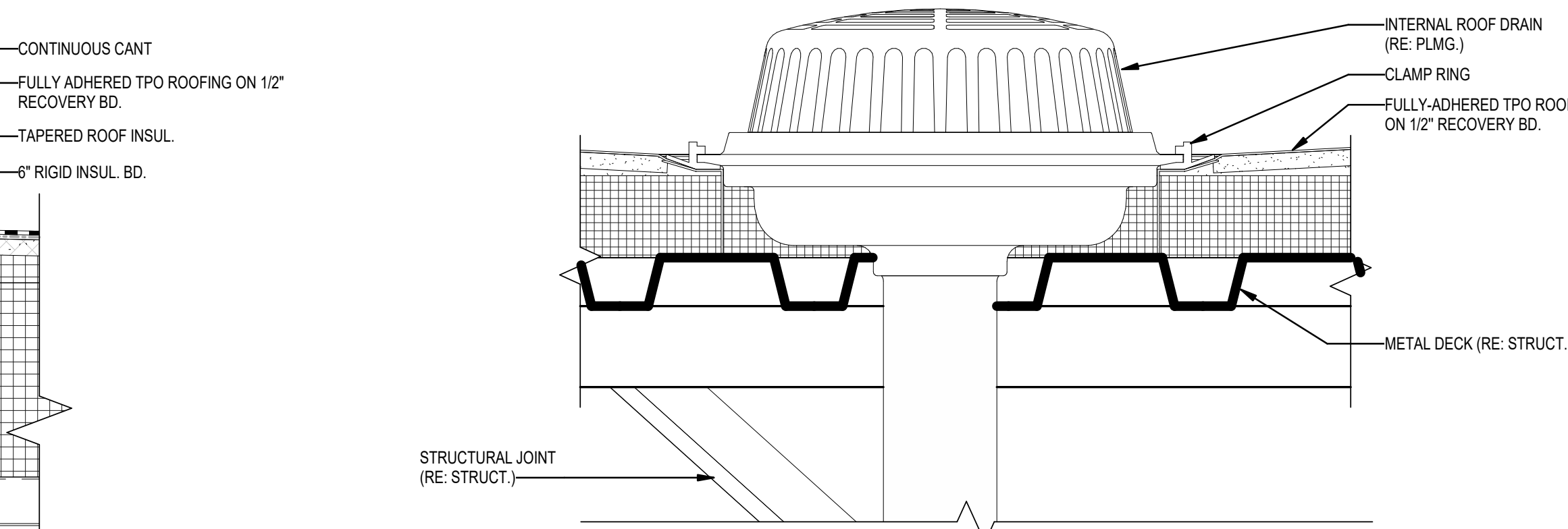
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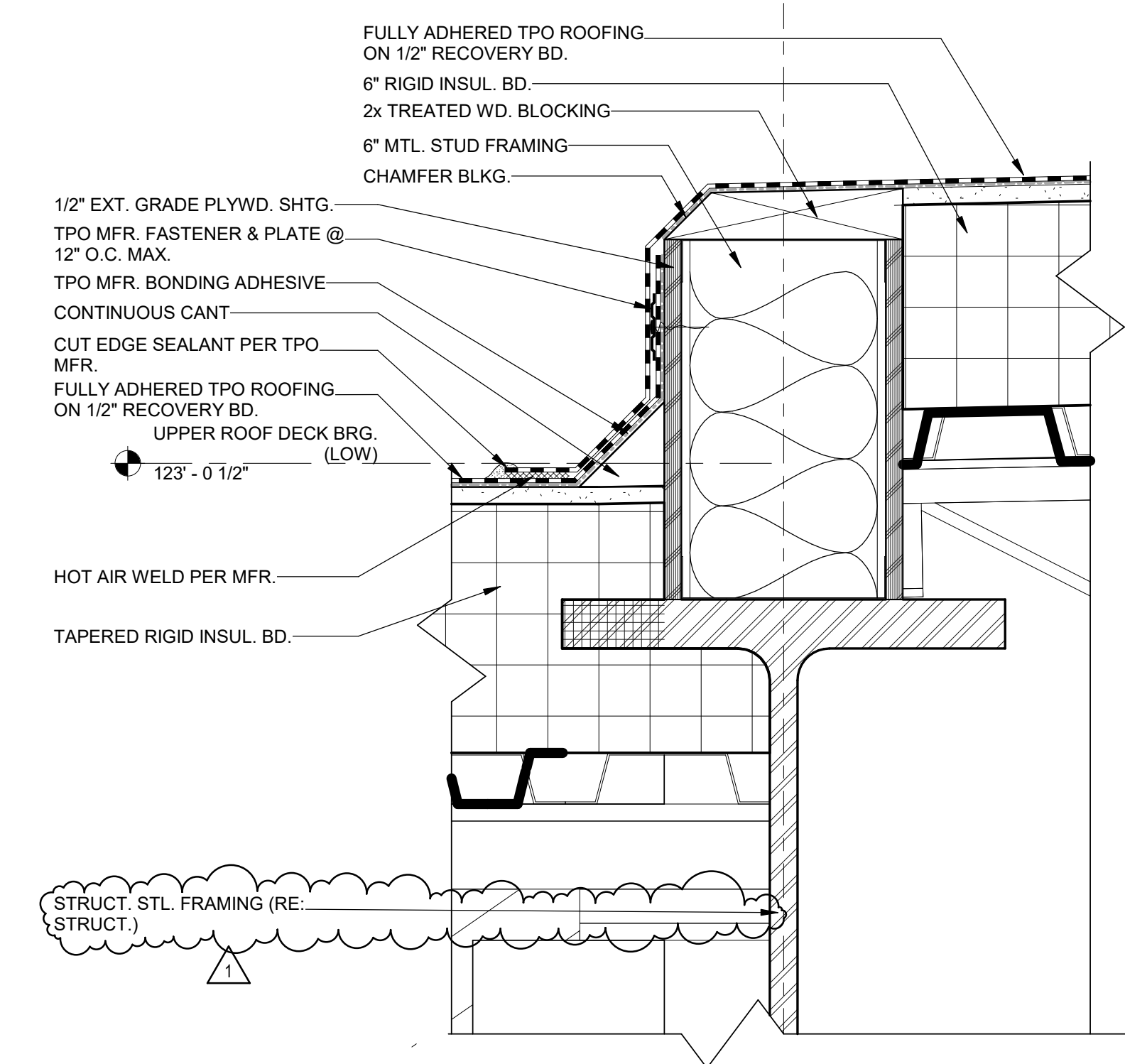
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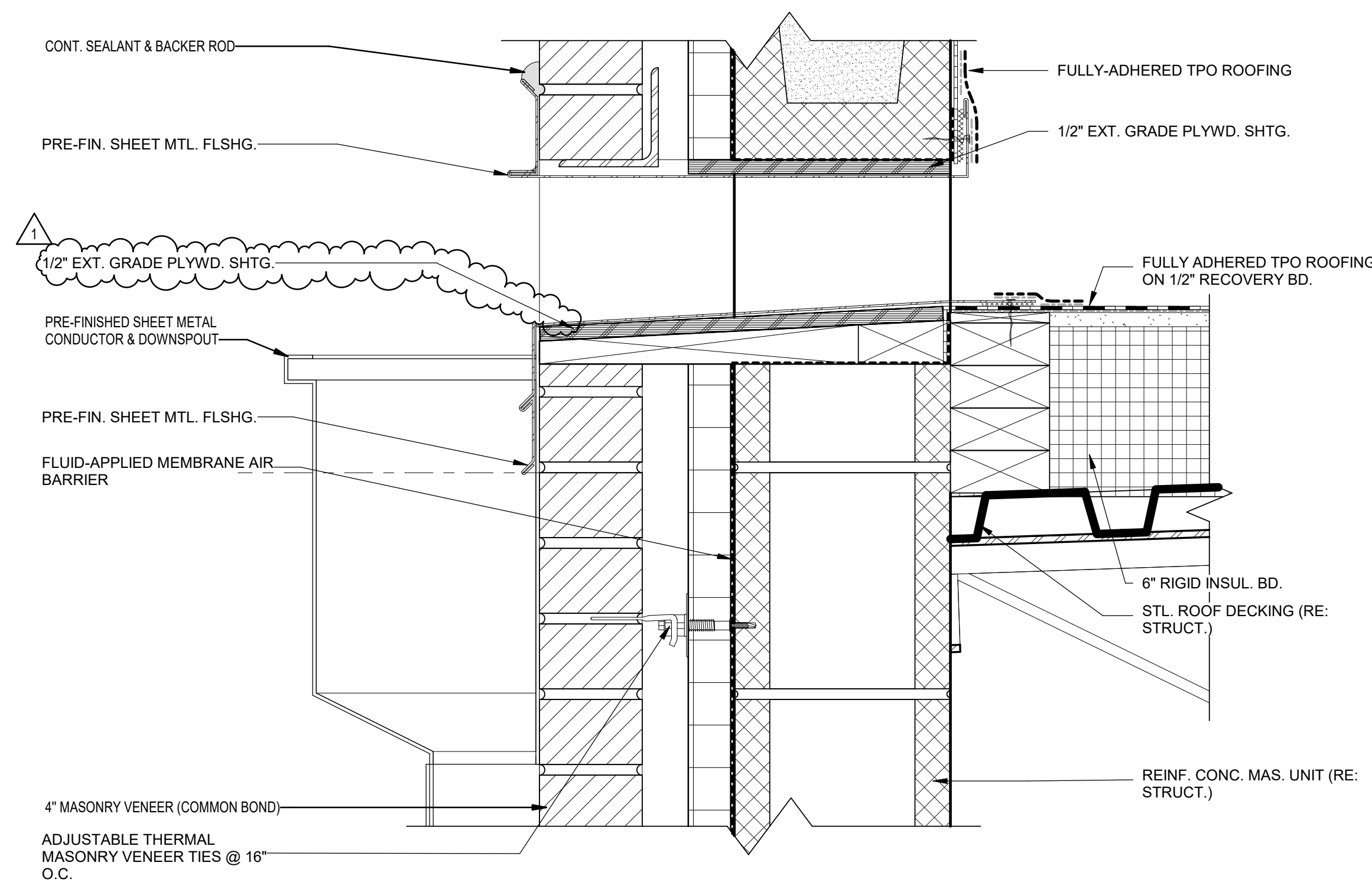
A1 ROOF RAKE EDGE DETAIL
3" = 1'-0"



C3 ROOF DRAIN DETAIL
3" = 1'-0"



A3 ROOF TRANSITION DETAIL
3" = 1'-0"



A6 SCUPPER DETAIL
3" = 1'-0"

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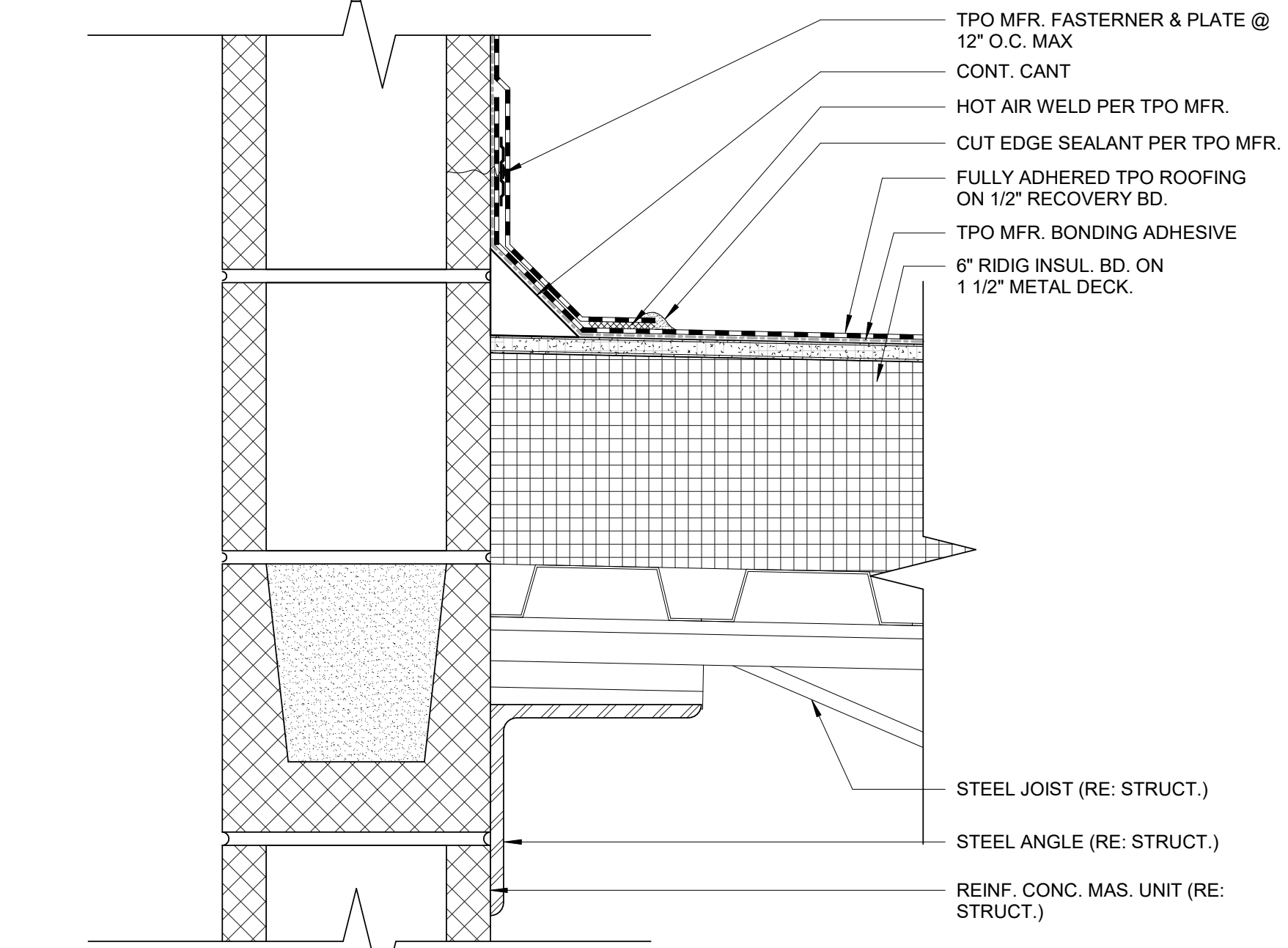
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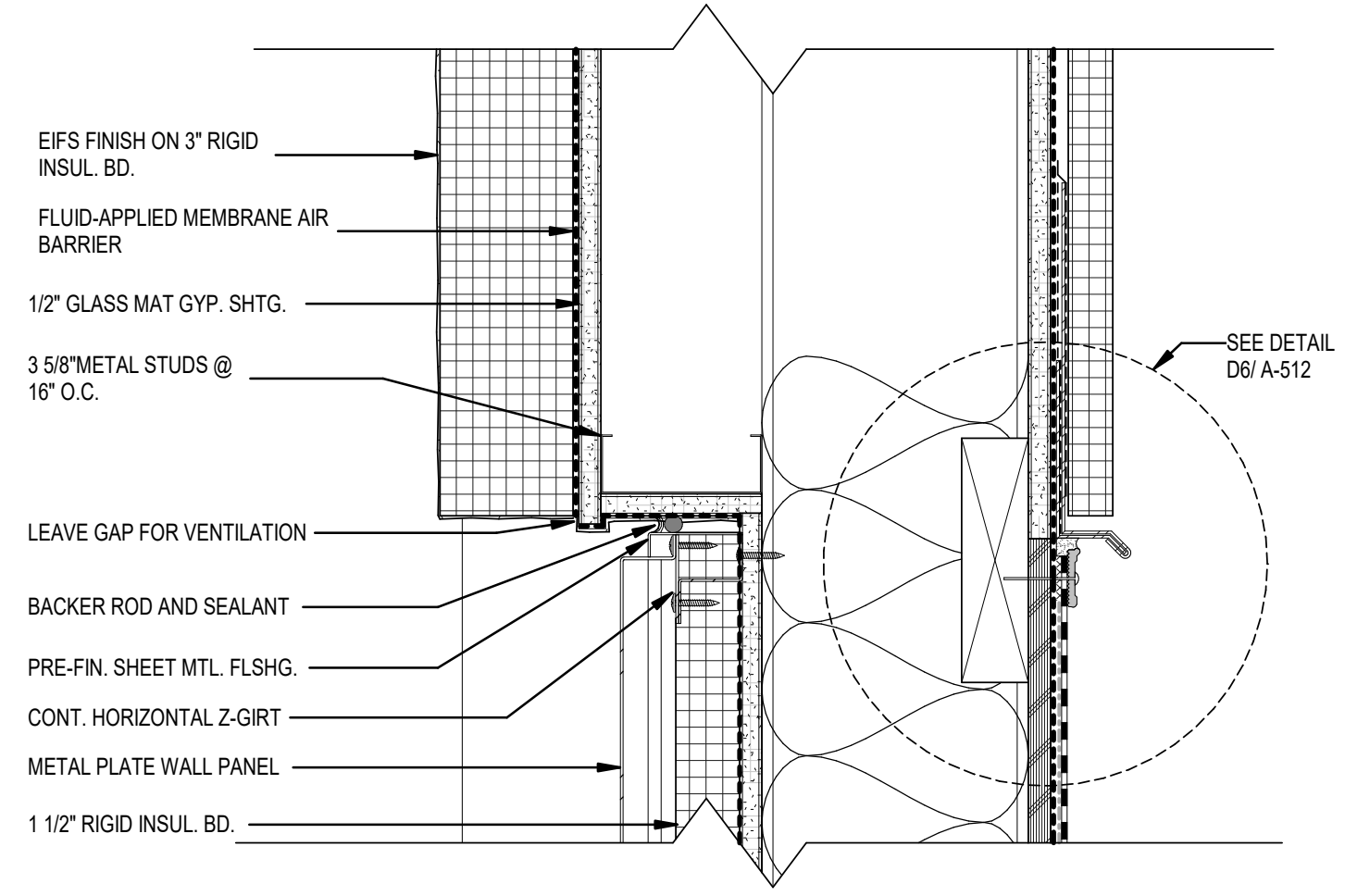
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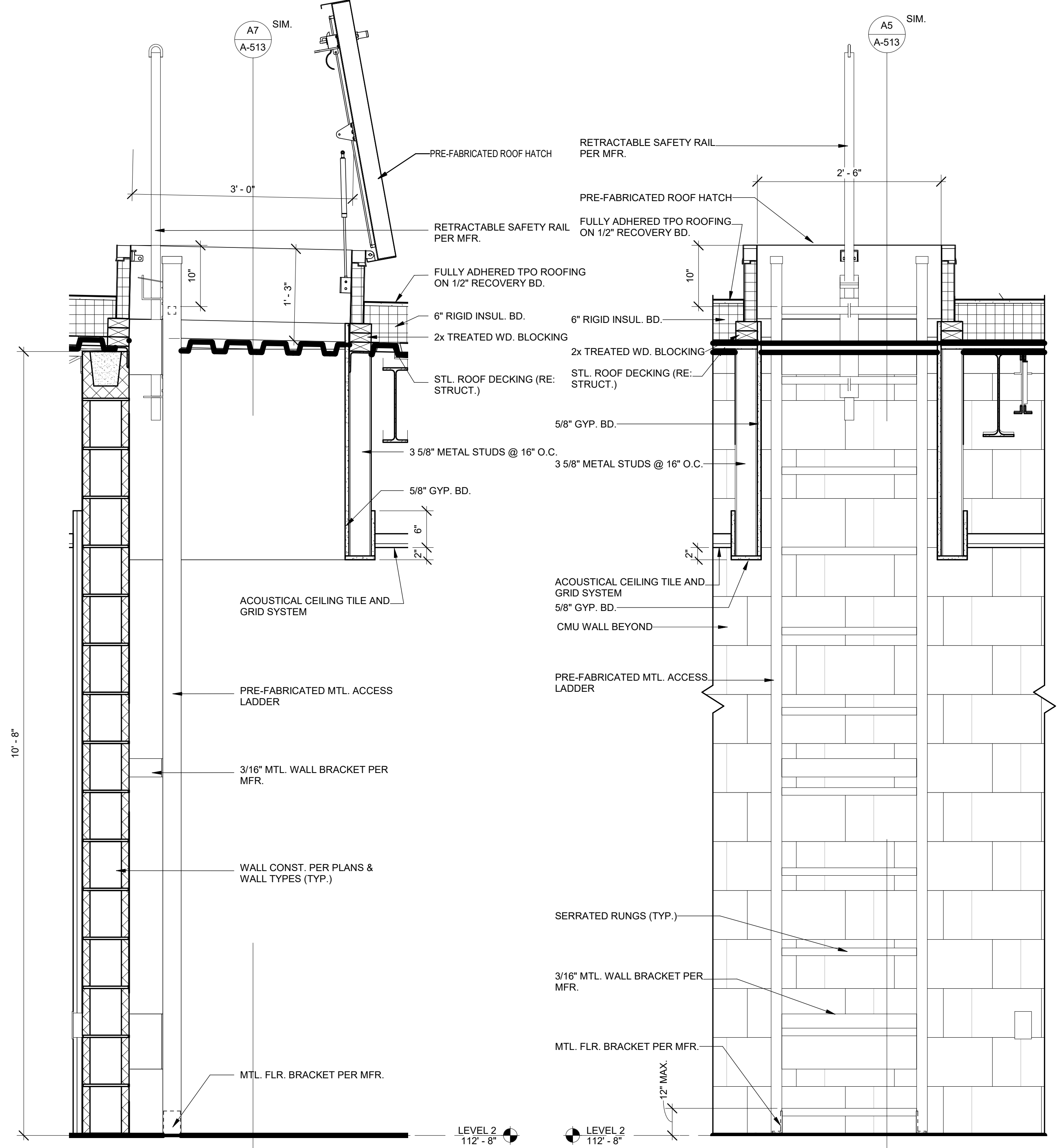
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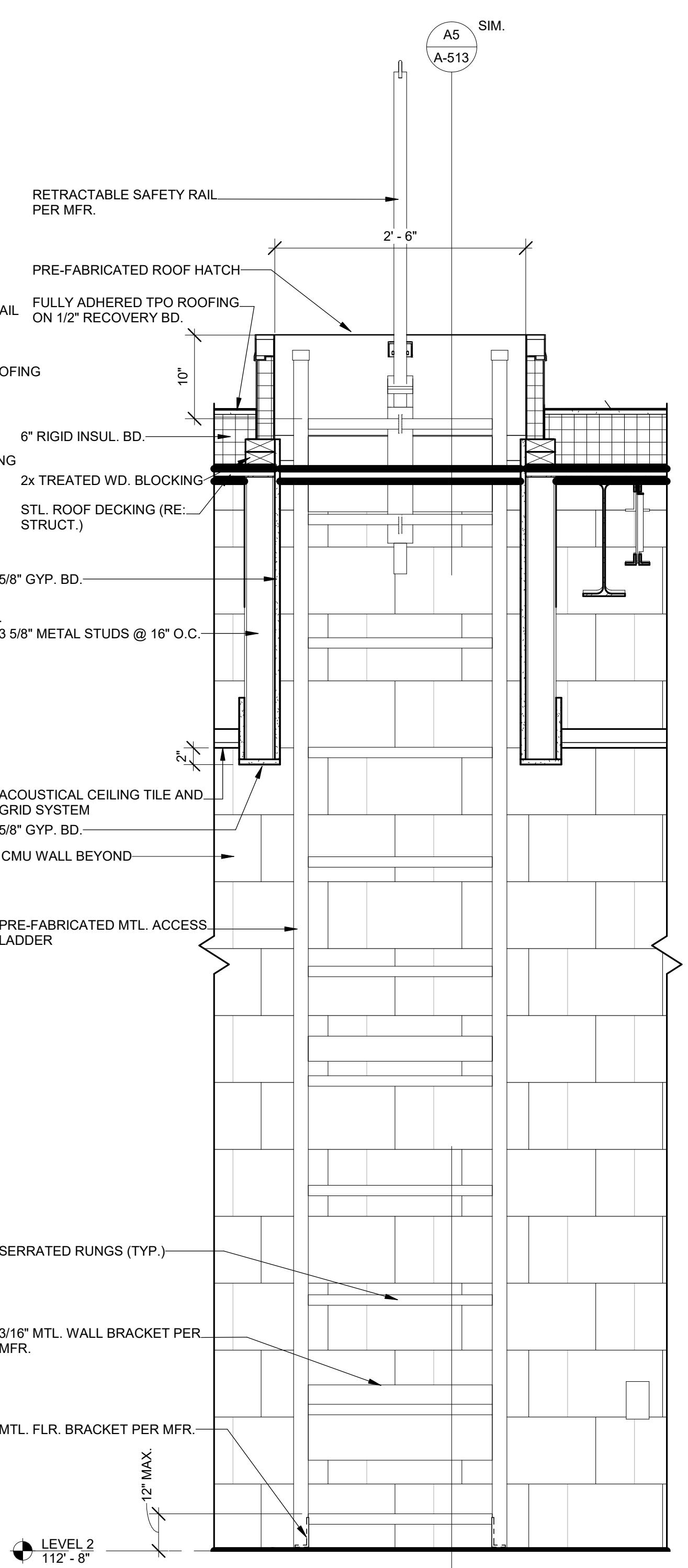
B2 WALL- CMU - VERT TRANS @ APP BAY
3" = 1'-0"



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



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



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



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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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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
CHK'D BY: PJM

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ROOF DETAILS

A-513

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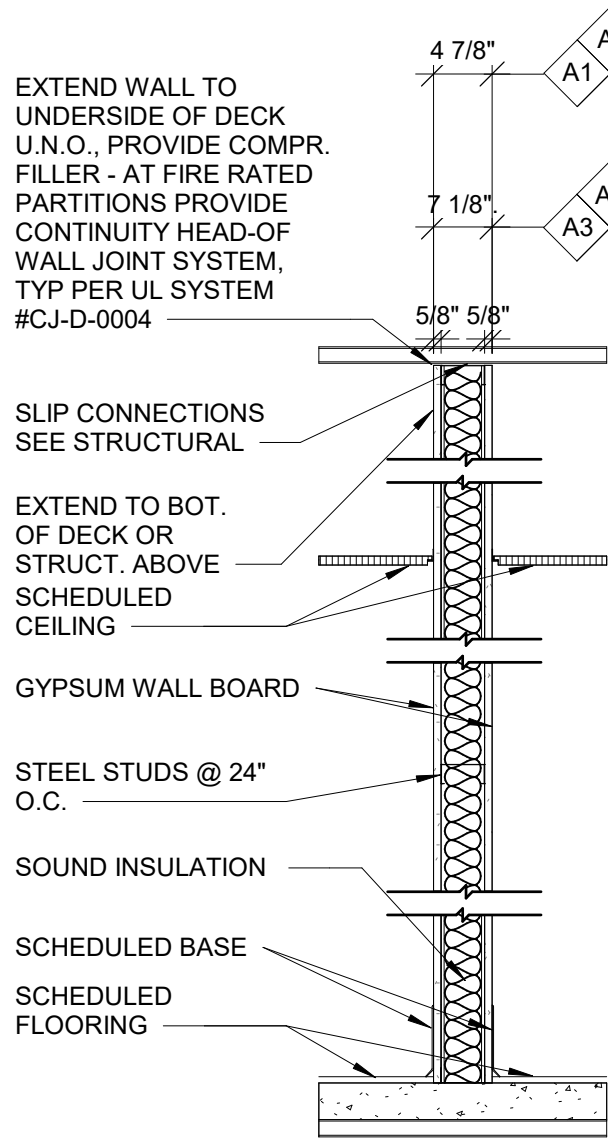
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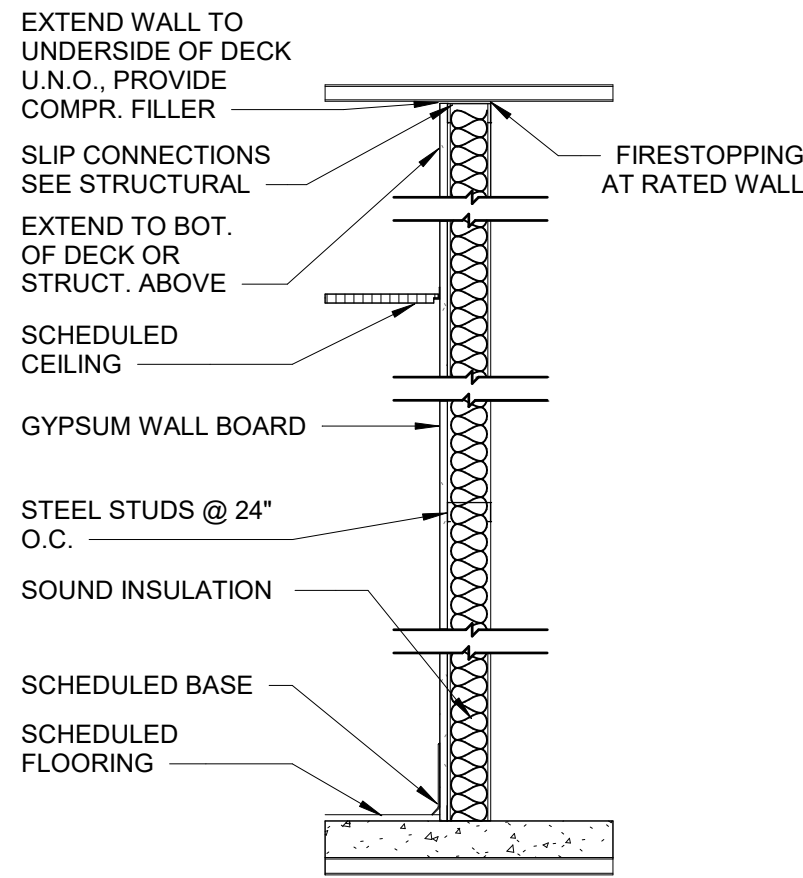
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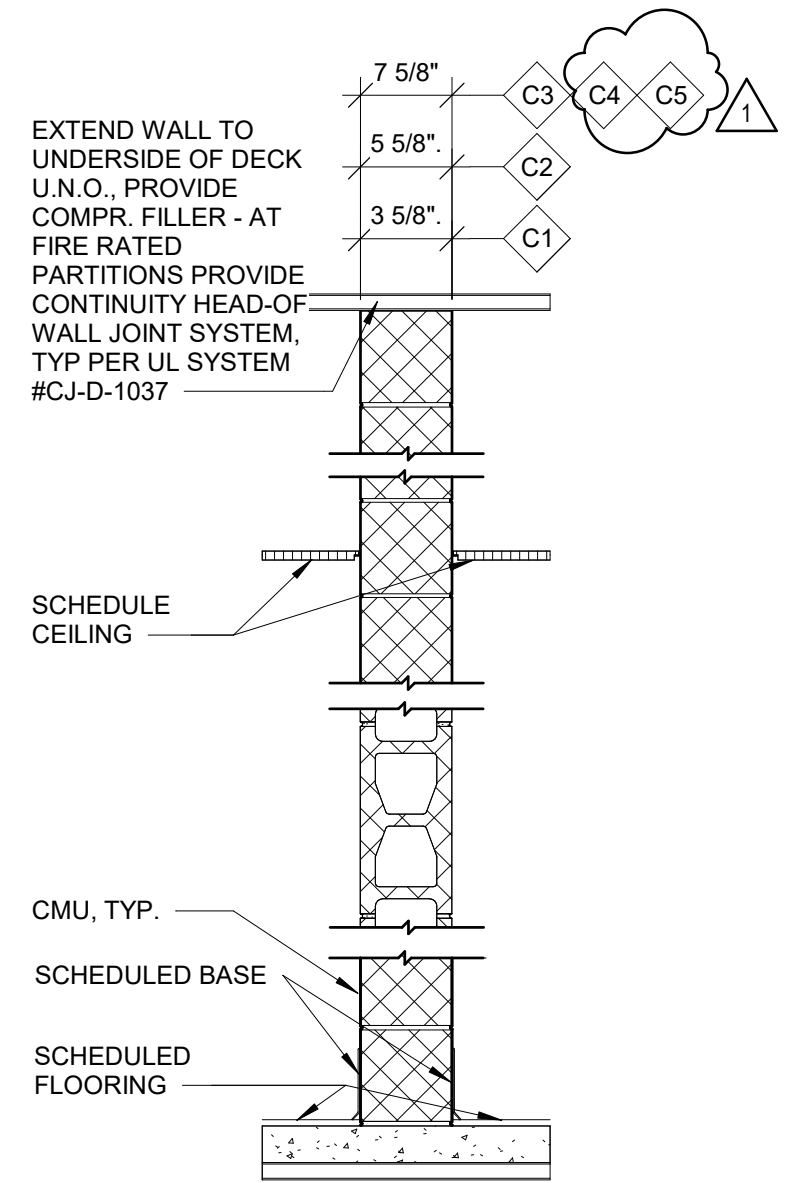
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- A1** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB EACH SIDE
- FINISH PER SCHEDULE
- A2** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419
- STC 48
- A3** 6" STEEL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



@ STORM SHELTER

E7 2 HOUR FLOOR/CEILING ASSEMBLY

1" = 1'-0"

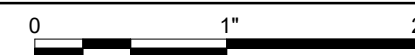


TABLE 722.2.2.1
MINIMUM SLAB THICKNESS (inches)

CONCRETE TYPE	FIRE-RESISTANCE RATING (hours)				
	1	1 1/2	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



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PARTITION TYPES

A-601

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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.

Last Updated on 2022-06-06

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

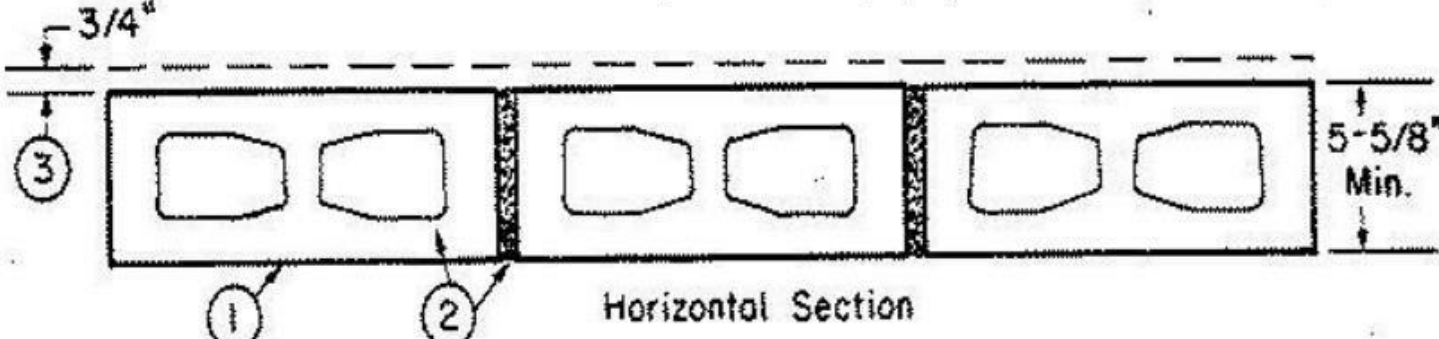
Design No. U906

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 HI 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", "ECOBASci", "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.

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CHK'D BY:	Checker

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$$1/4" = 1'-0"$$


1. ALL EXTERIOR GLAZING IS GL-1 (U.N.O.)
2. WINDOW ELEVATIONS VIEWED FROM BUILDING EXTERIOR SIDE (U.N.O.)
3. REFER TO DOOR SCHEDULE FOR EXTERIOR ALUMINUM STOREFRONT DOOR LOCATIONS
4. REFER TO SPECIFICATIONS FOR GLAZING PERFORMANCE REQUIREMENTS
5. ALL FRAMES HAVE 2" WIDE FACE (U.N.O.)
6. ALL FRAMES NOTED AS "INTERIOR" ARE HOLLOW METAL (HM); ALL EXTERIOR LOCATIONS ARE PRE-FINISHED ALUMINUM-FRAMED STOREFRONT FRAMES

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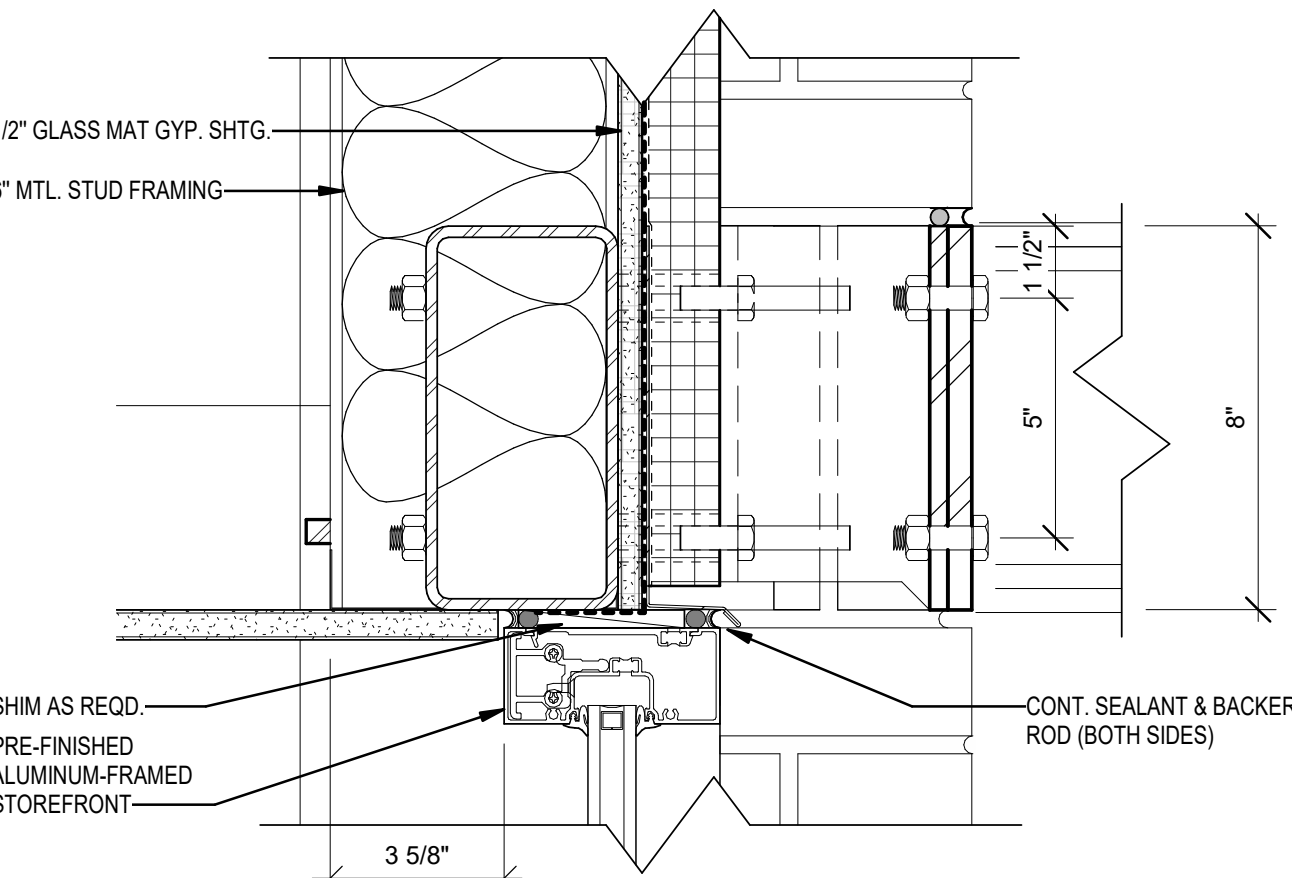
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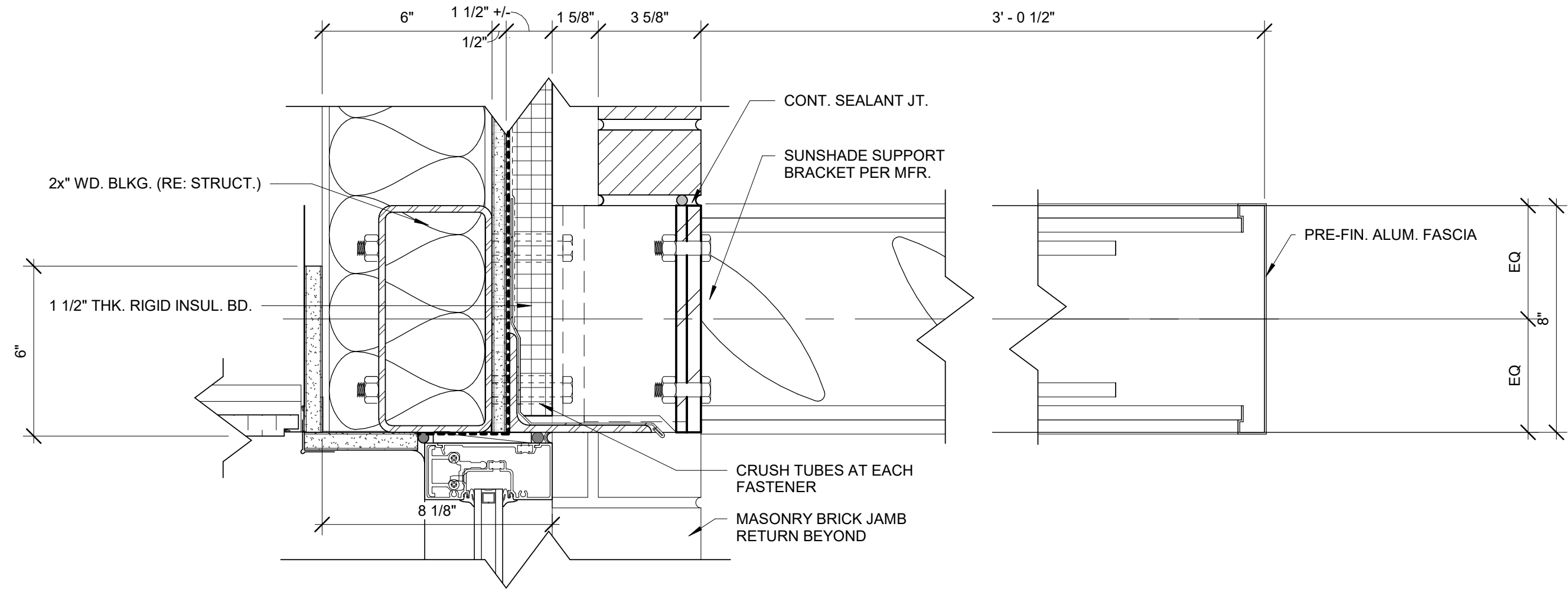
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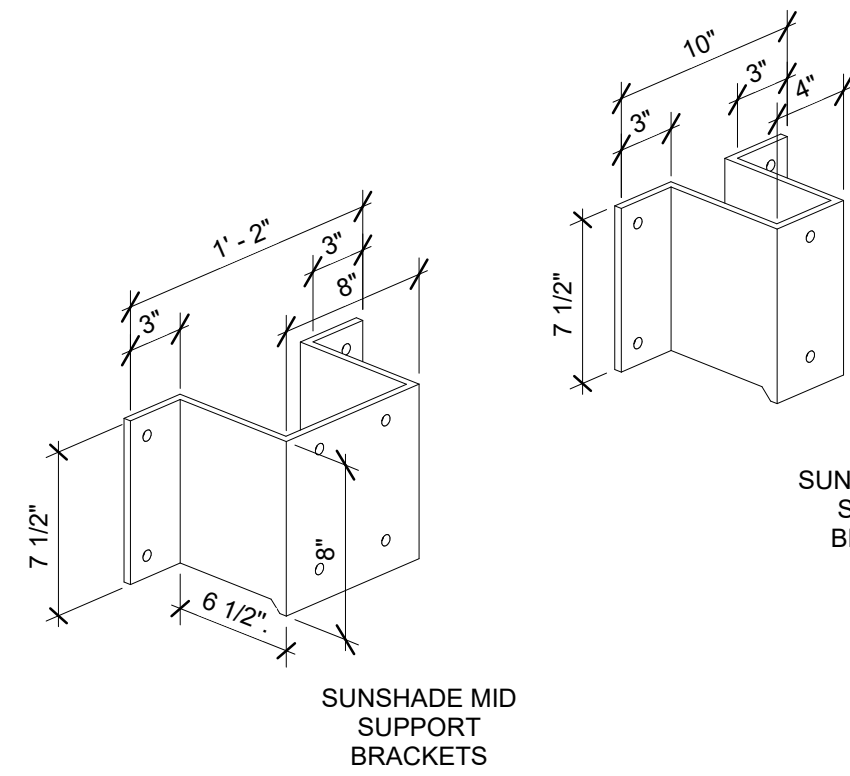
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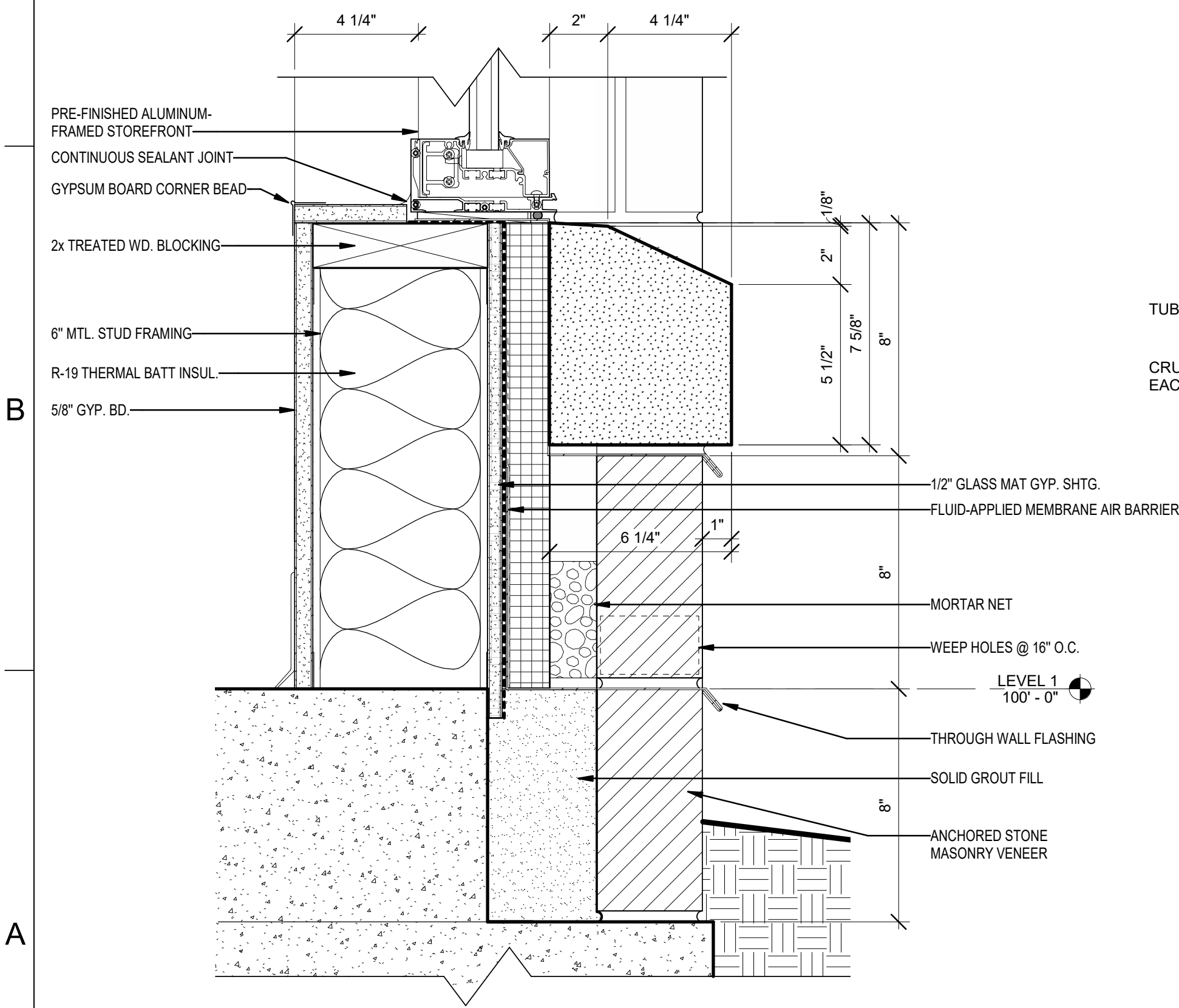
C1 WINDOW HEAD DETAIL @ EIFS
3" = 1'-0"



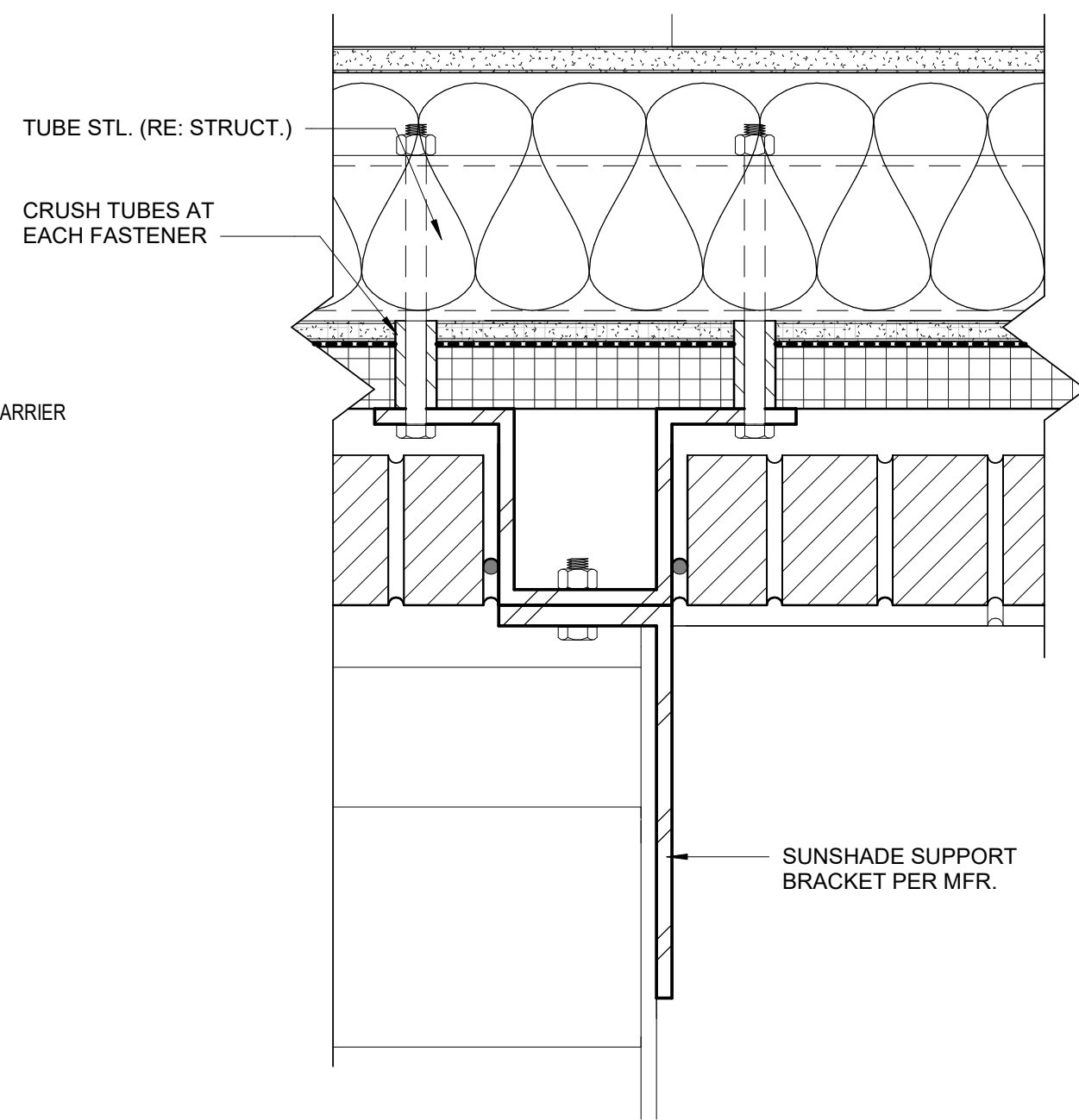
C4 WINDOW HEAD DETAIL @ MASONRY
3" = 1'-0"



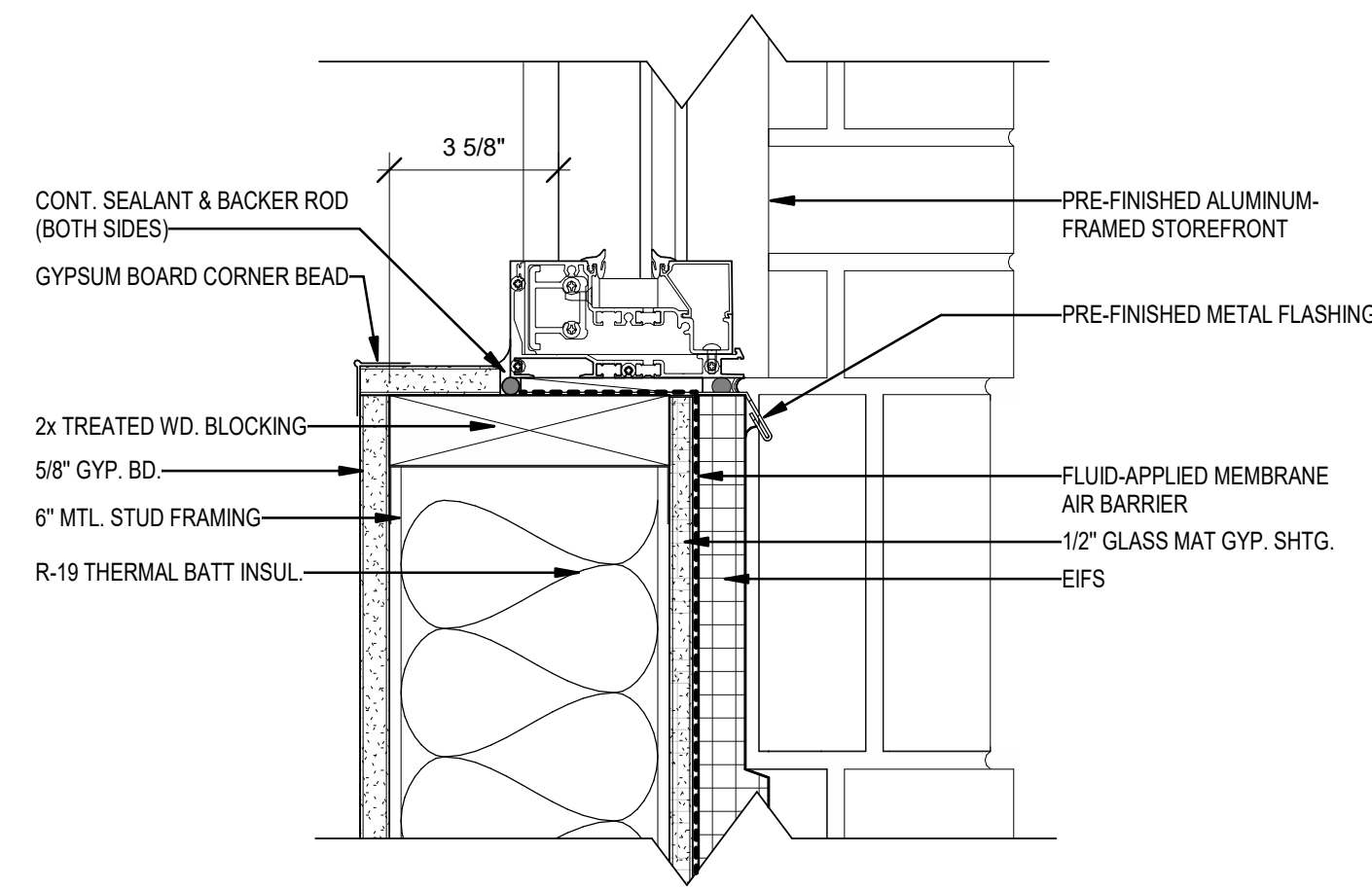
C7 SUNSHADE BRACKET
0 3" 6" 1' 1'-6"



A1 WINDOW SILL DETAIL
3" = 1'-0"



A3 SUNSHADE PLAN DETAIL
3" = 1'-0"



A5 WINDOW SILL @ EIFS
3" = 1'-0"

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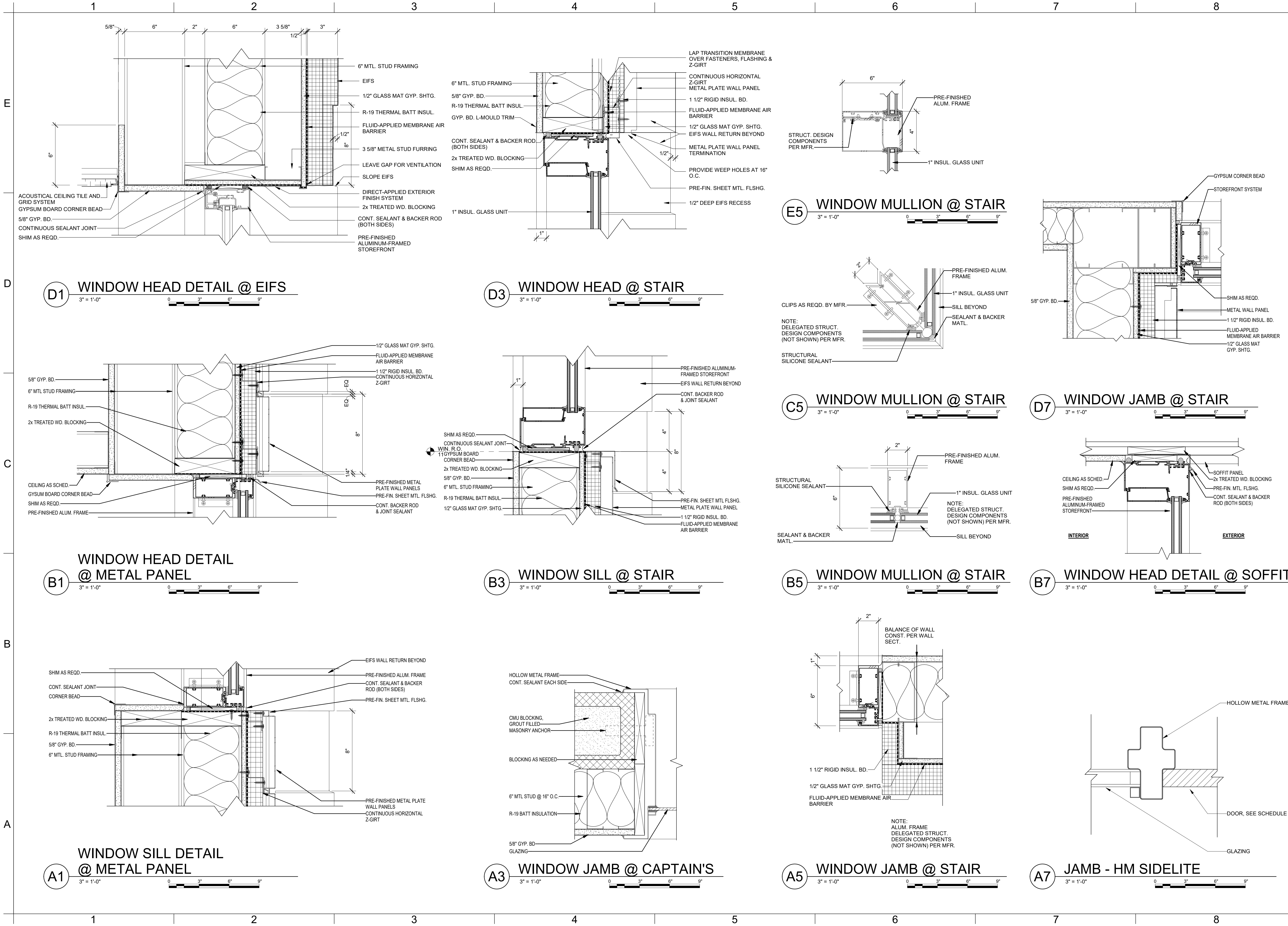
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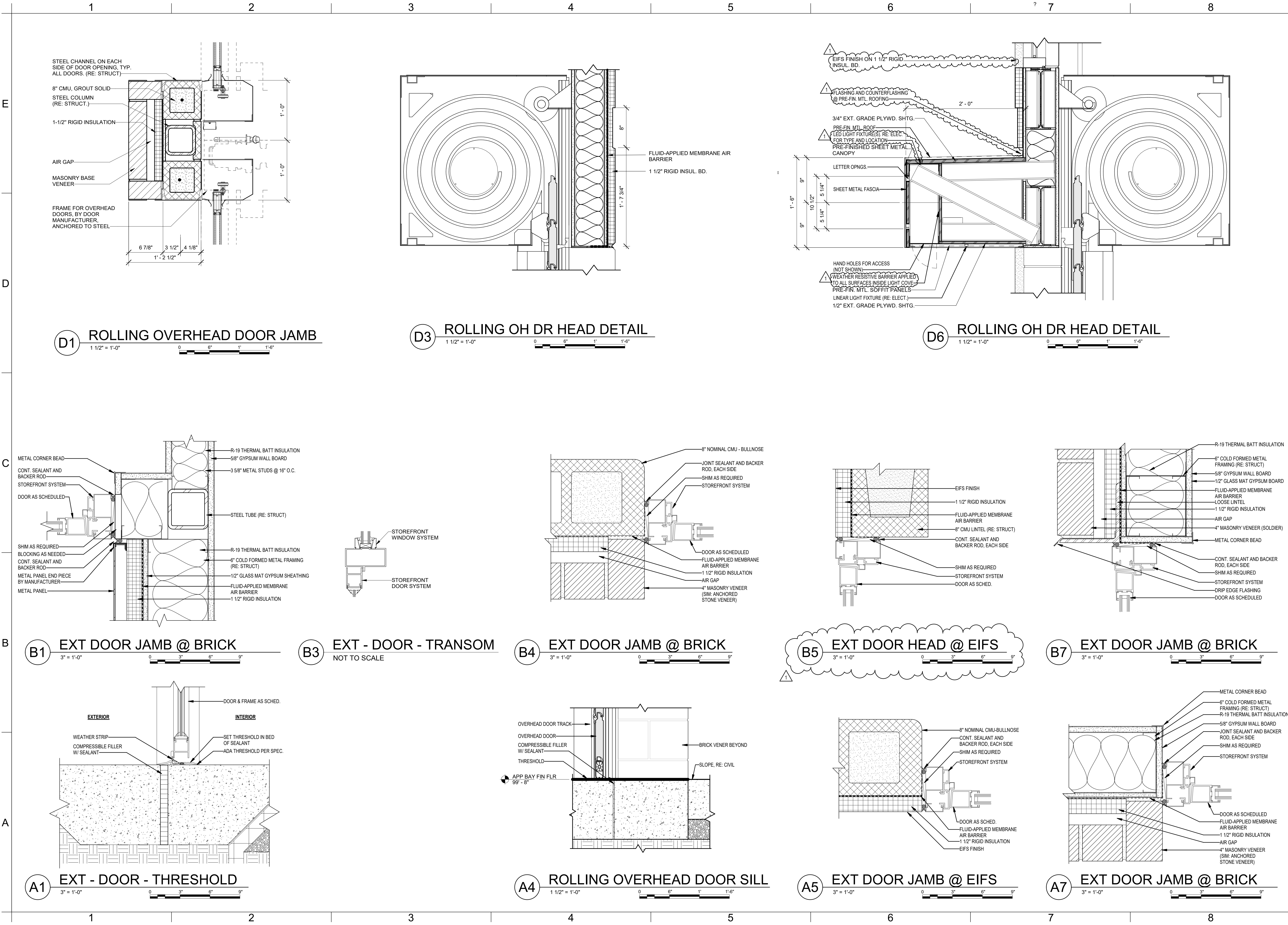
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EXTERIOR DOOR DETAILS

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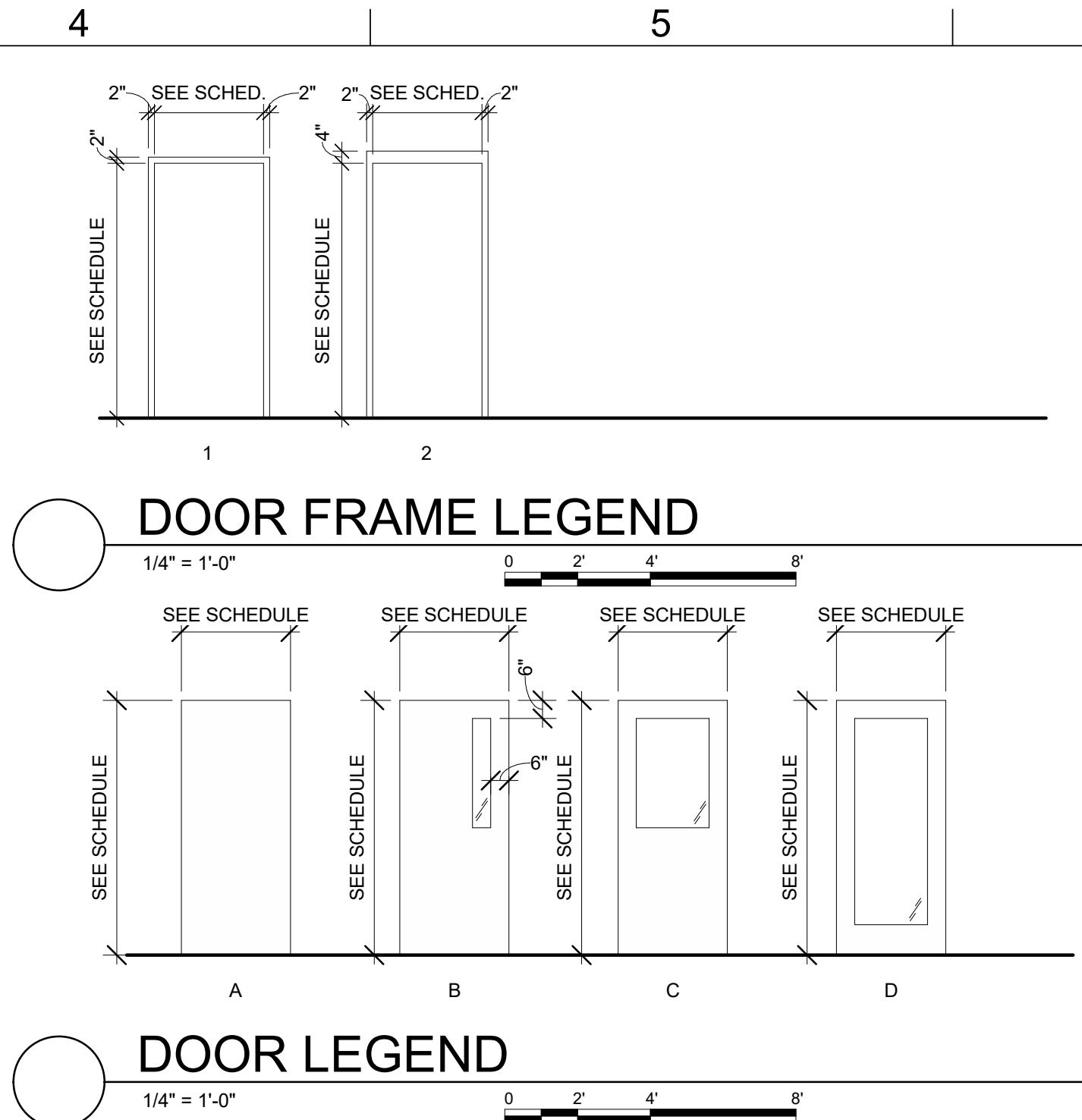
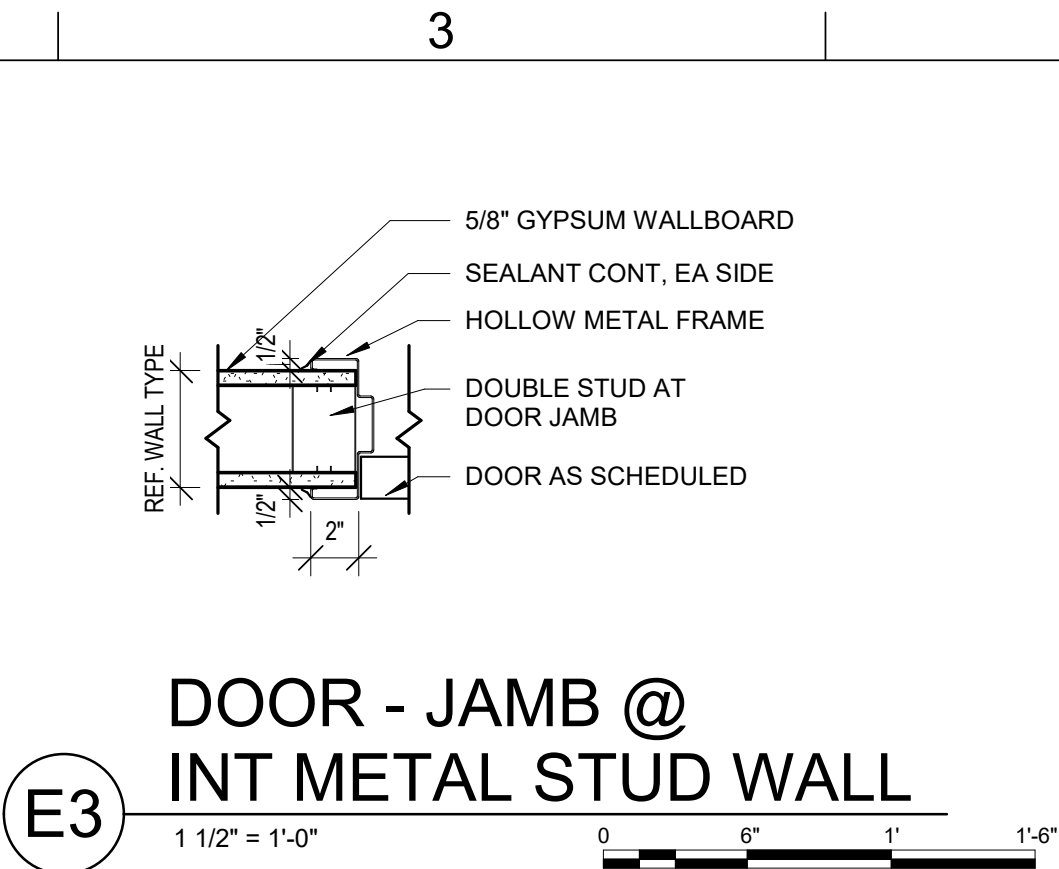
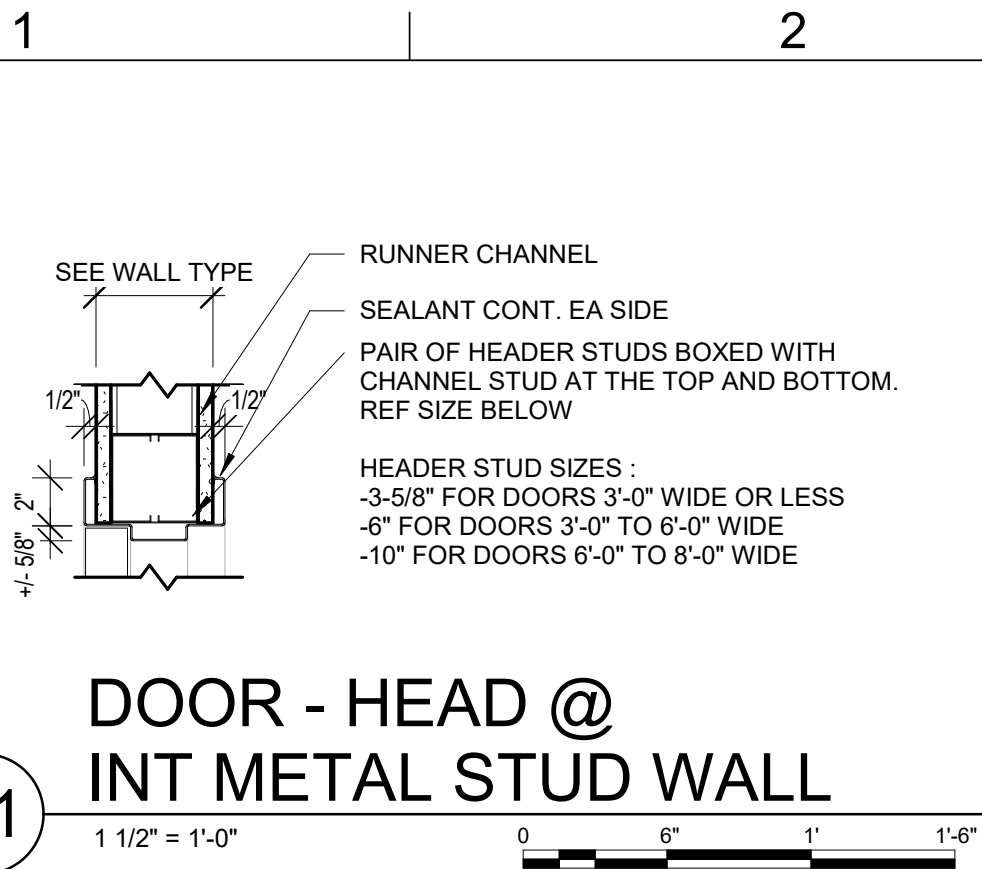
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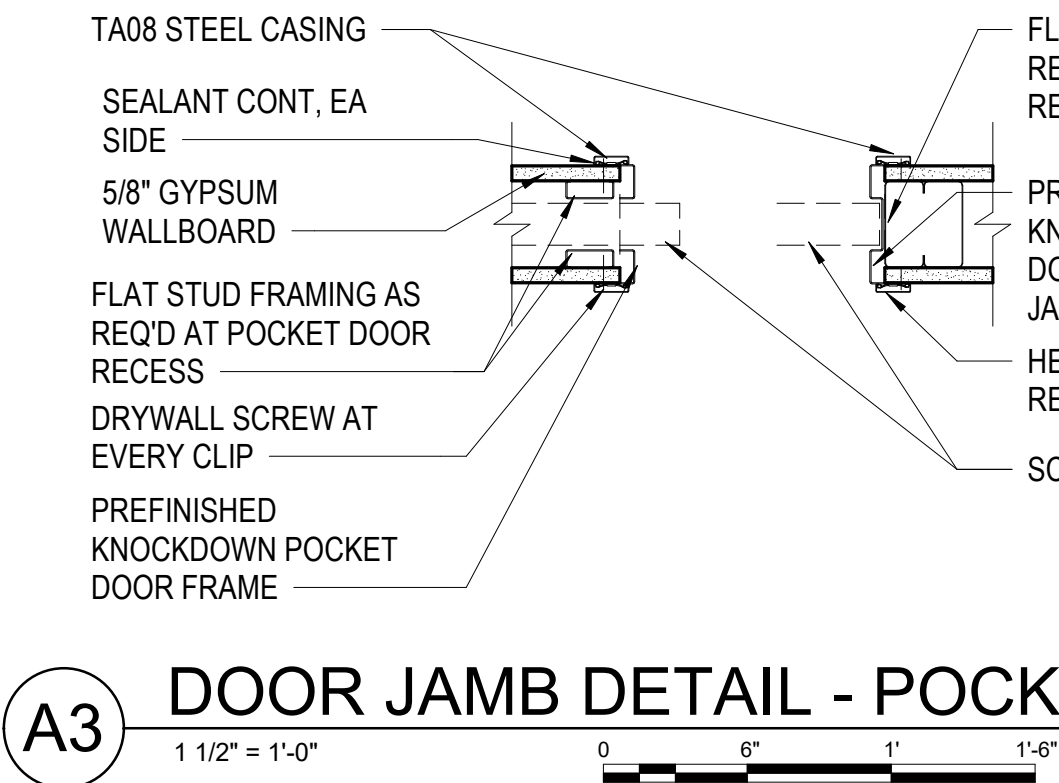
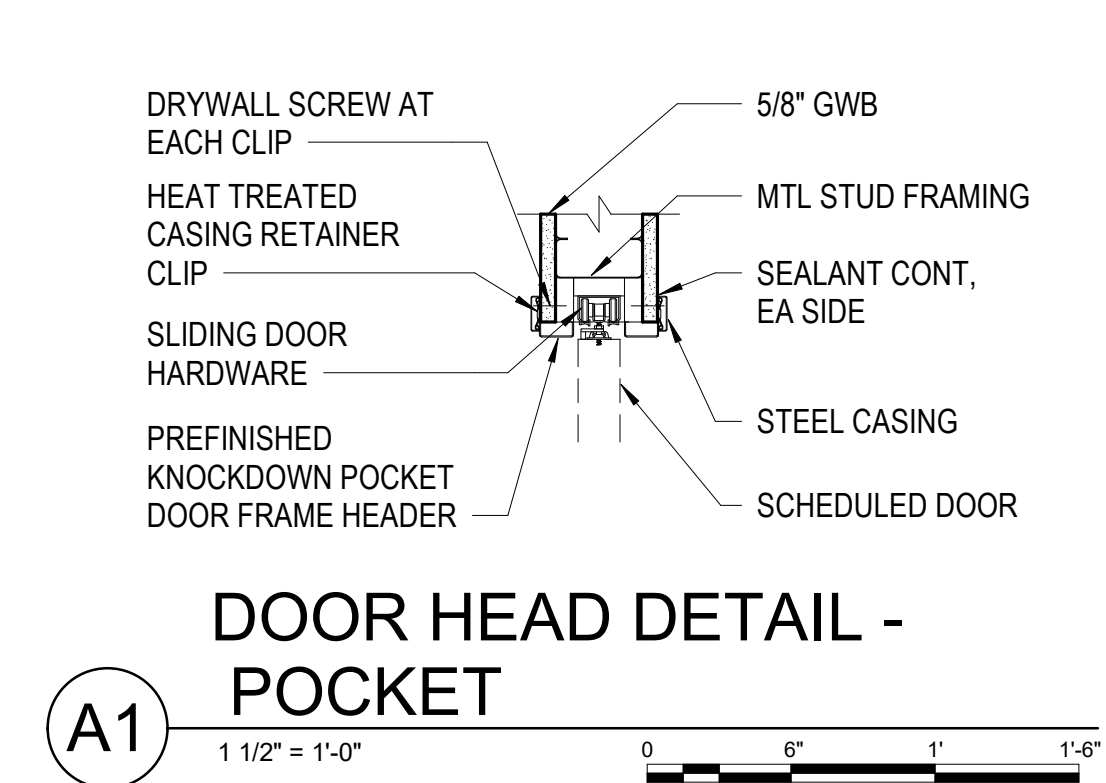
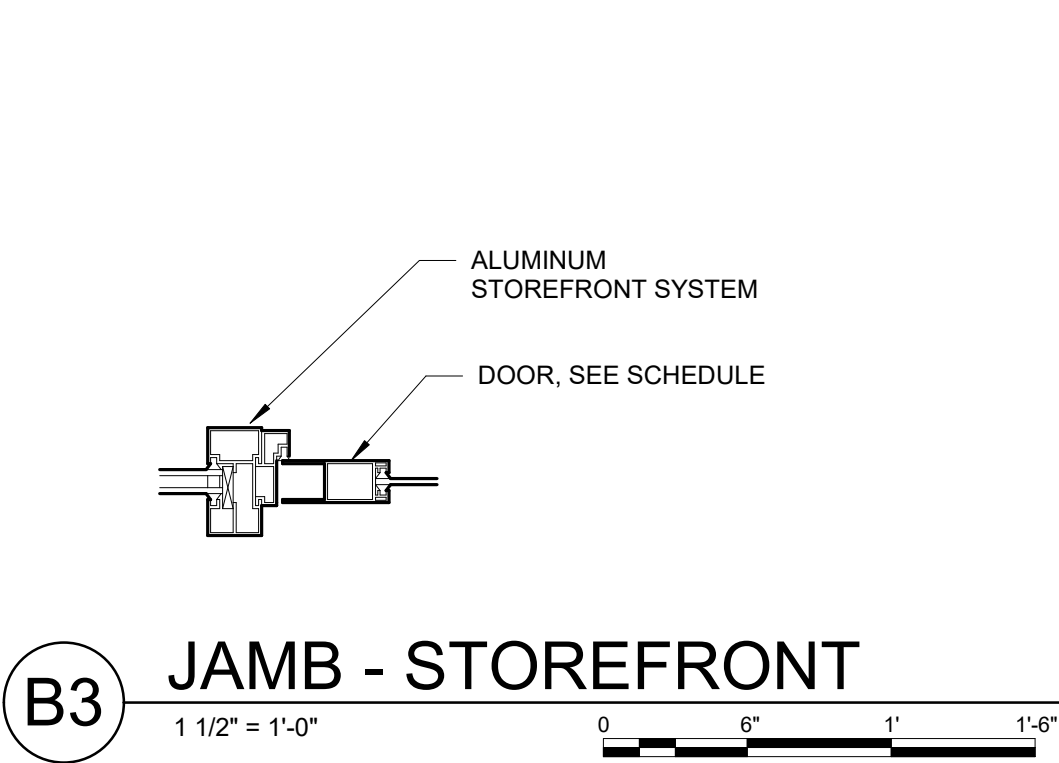
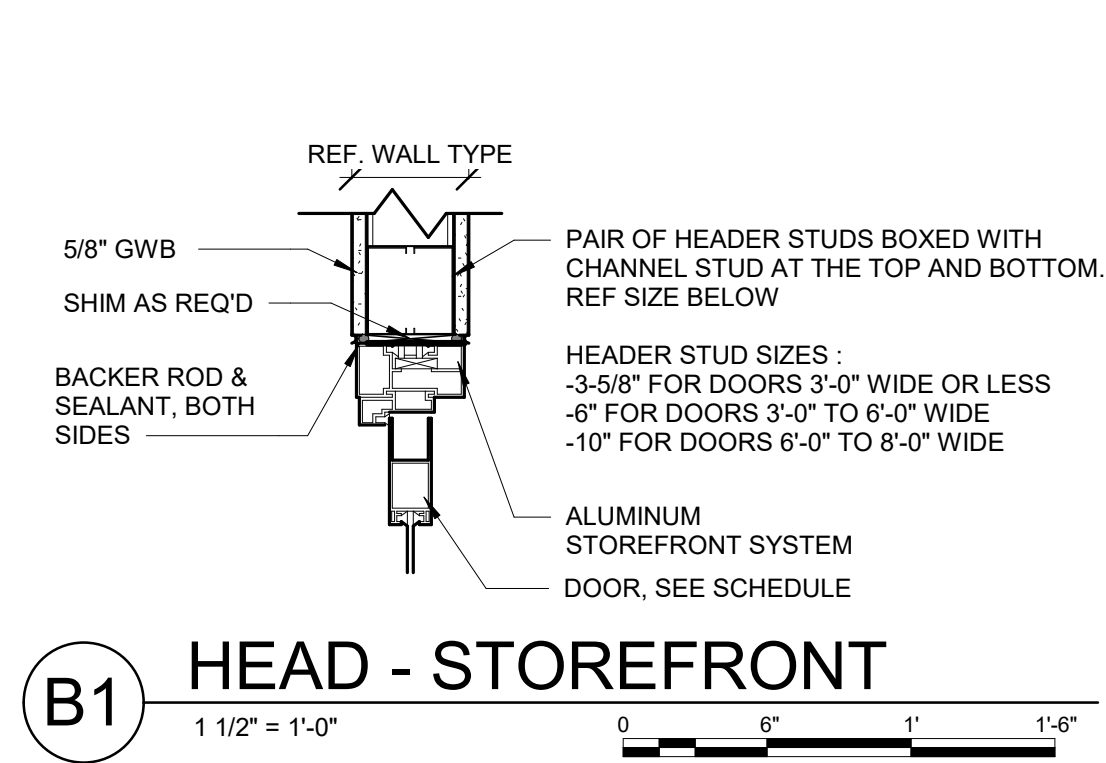
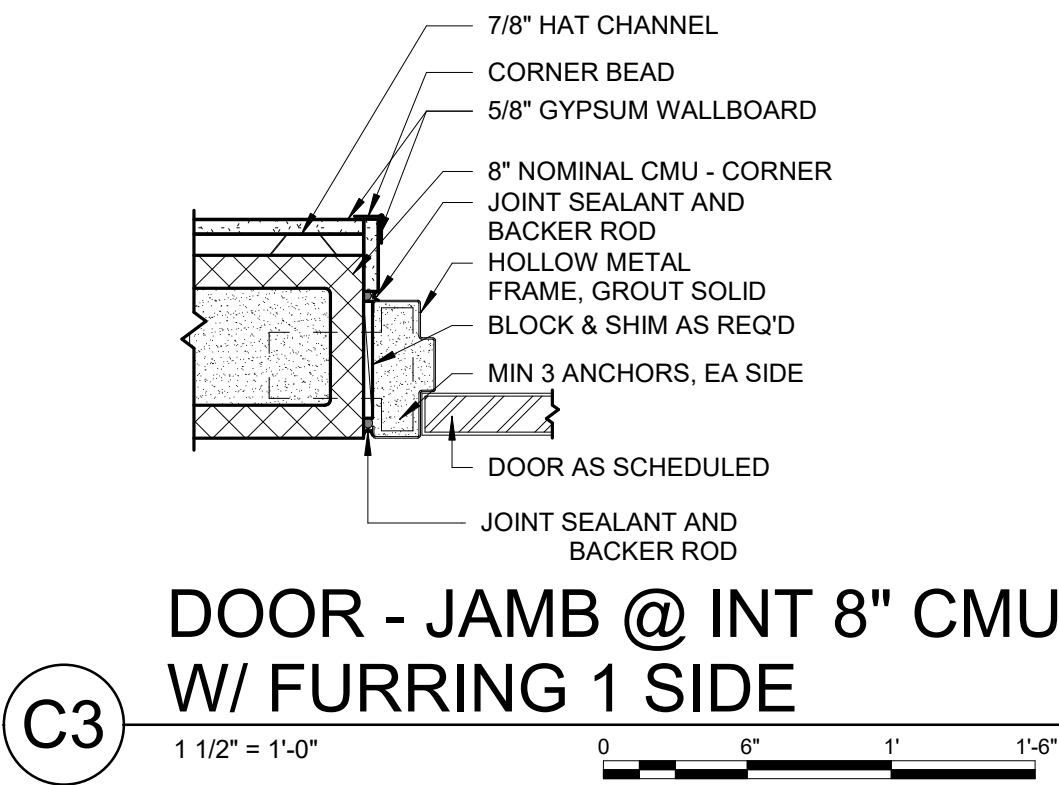
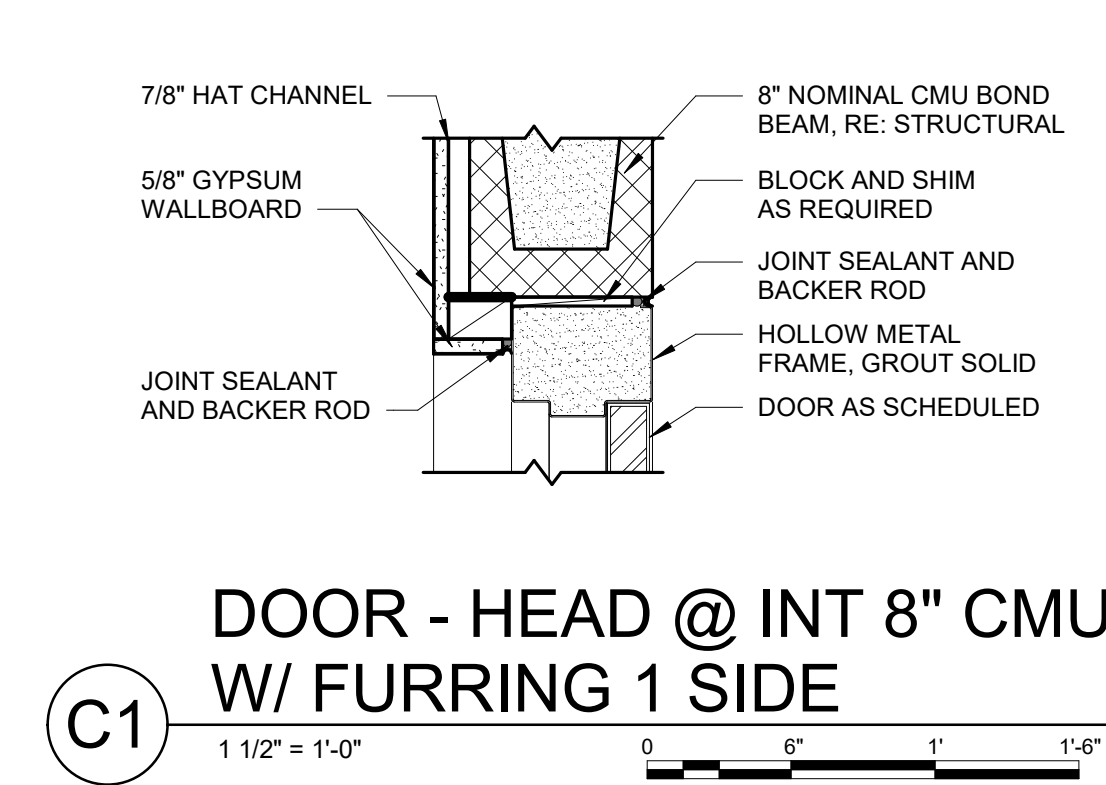
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GLAZING LEGEND	
GL-1	1\"
GL-2	1/4\"
GL-3	1-HOUR FIRE-RATED GLAZING
	INSULATED LAMINATED PRE-FINISHED METAL PANEL
	GLAZING MATERIAL (GL)

- ### 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 |
- GENERAL NOTES:**
- ALL INTERIOR DOOR GLAZING IS GL-2 (U.N.O.)
 - ALL EXTERIOR DOORS ARE TO HAVE INSULATED GLAZING GL-1
 - ELEVATIONS VIEWED FROM BUILDING EXTERIOR SIDE (U.N.O.)
 - SOLID CORE WOOD DOORS ARE 1 3/4\"
 - EXTERIOR ALUMINUM STOREFRONT DOORS ARE 2\"
 - PROVIDE PANIC HARDWARE IN ACCORDANCE IBC 1010.1.10
 - ALL DOORS WITH GLAZING TO HAVE TEMPERED SAFETY GLAZING PER IBC 2406.
 - DOOR HARDWARE AND CLOSERS SHALL CONFORM TO ANSI 117.1 & ADA REQUIREMENTS AT ALL DOORS.
 - THE OPENING FORCE FOR INTERIOR DOORS SHALL NOT EXCEED A 5-POUND FORCE AND SHALL SWING FULLY OPEN WHEN SUBJECTED TO A 15 POUND FORCE. THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15 POUND FORCE. COMPLY WITH IBC 1010.1.3 AND ANSI 117.1.404.2.8.
 - FIRE DOORS MUST BE SELF-CLOSING AND LATCHING PER NFPA 80-99
 - ENTRANCE DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR DEVICE. MANUALLY OPERATED FLUSH BOLTS, DEAD BOLTS, OR SURFACE BOLTS ARE NOT PERMITTED.
 - EXTERIOR HM DOORS SHALL BE INSULATED U.N.O.
 - FOR DOOR HARDWARE SET DESCRIPTIONS, SEE SPECIFICATION SECTION 087100 DOOR HARDWARE.

- DOOR HARDWARE NOTES:**
- HW-1 - ACCESS CONTROL - CARD READER 1 SIDE, FREE EGRESS OTHER
- HW-2 - PASSAGE - ALWAYS UNLOCKED BOTH WAYS
- HW-3 - PRIVACY - PINHOLE OUTSIDE, PUSH BUTTON LOCK INSIDE TO LOCK OUTSIDE LEVER, RELEASE BY ROTATING INSIDE LEVER. FREE EGRESS FROM INSIDE
- HW-4 - OFFICE - KEY OUTSIDE, PUSH/TURN BUTTON INSIDE TO LOCK AND UNLOCK OUTSIDE LEVER, FREE EGRESS FROM INSIDE
- HW-5 - STORE ROOM - OUTSIDE ALWAYS LOCKED. LATCHBOLT RELEASED W/ KEY OUTSIDE OR ROTATING INSIDE LEVER. FREE EGRESS FROM INSIDE
- HW-6 - CLASSROOM - KEY OUTSIDE TO LOCK OR UNLOCK OUTSIDE LEVER. FREE EGRESS FROM INSIDE
- HW-7 - PULL HARDWARE OUTSIDE. THUMB TURN LOCK FROM INSIDE. FREE EGRESS FROM INSIDE.
- HW-8 - STORM SHELTER HARDWARE.



DOOR SCHEDULE																
MARK	ROOM NAME	DOOR						FRAME			DETAIL				HWR 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	ENTRY VEST.	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	-	ALUM	ANOD	B3/A-613	B4/A-613	A1/A-613	HW-1	PANIC HARDWARE		
109C	APPARATUS BAY	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	PPE / LOCKERS	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	DECON TOIL.	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	B3/A-622	A3/A-622	-	HW-8	STORM SHELTER - 2 HR. FIRE RATING	
114A	RAMP	3' - 6"	7' - 0"	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	2	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	-	1	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	A7/A-613 & B3/A-621	A1/A-613	HW-1	PANIC HARDWARE	
119A	APPARATUS BAY	14' - 0"	14' - 0"								D6/A-613	D1/A-613	A4/A-613		FOUR FOLD DOOR	
119B	APPARATUS BAY	14' - 0"	14' - 0"								D6/A-613	D1/A-613	A4/A-613		FOUR FOLD DOOR	
119C	APPARATUS BAY	14' - 0"	14' - 0"								D6/A-613	D1/A-613	A4/A-613		FOUR FOLD DOOR	
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	APPARATUS BAY	14' - 0"	14' - 0"								D3/A-613	D1/A-613	A4/A-613		HIGH SPEED OVERHEAD	
119G	APPARATUS BAY	14' - 0"	14' - 0"								D3/A-613	D1/A-613	A4/A-613		HIGH SPEED OVERHEAD	
119H	APPARATUS BAY	14' - 0"	14' - 0"								D3/A-613	D1/A-613	A4/A-613		HIGH SPEED OVERHEAD	
120	UTILITY	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2		
121A	SHOP	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2		
121B	SHOP	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2		
122A	EXERCISE / WELLNESS	3' - 0"	7' - 6"	C	HM	PTD	GL-2	1	HM	PTD	D1/A-621	D3/A-621	A5/A-622	HW-2		
122B	EXERCISE / WELLNESS	6' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	2	ALUM	ANOD	B3/A-613	B3/A-621	A1/A-613	HW-7	DOOR PAIR	
200	CORRIDOR	3' - 0"	7' - 0"	B	SCW	STN	GL-2	1	HM	PTD	E1/A-621	E3/A-621	B7/A-622	HW-2	PANIC HARDWARE	
202	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2		
202A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
202B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
203	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2		
203A	CAPTAIN'S BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
203B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
204B	MEZZANINE	3' - 0"	7' - 0"	B	SCW	STN	GL-2	2	HM	PTD	E1/A-621	E3/A-621	A5/A-622	HW-2		
205	LAUNDRY/JAN.	3' - 0"	7' - 0"	A	SCW	STN	-	2	HM	PTD	C1/A-621	C3/A-621	D7/A-622	HW-2		
206	MECH.	3' - 0"	7' - 0"	B	SCW	STN	GL-2	2	HM	PTD	C1/A-621	C3/A-621	A5/A-622	HW-2		
207	GENERAL STORAGE	3' - 0"	7' - 0"	A	SCW	STN	-	2	HM	PTD	C1/A-621	C3/A-621	A5/A-622	HW-2		
208	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2		
208A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
208B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
209	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2		
209A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
209B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
210	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2		
210A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
210B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
211	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2		
211A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
211B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
212	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2		
212A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
212B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
213	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2		
213A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
213B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	



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FIRE STATION #5
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:		
#	Description	Date



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

DOOR AND FRAME SCHEDULE

A-621

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

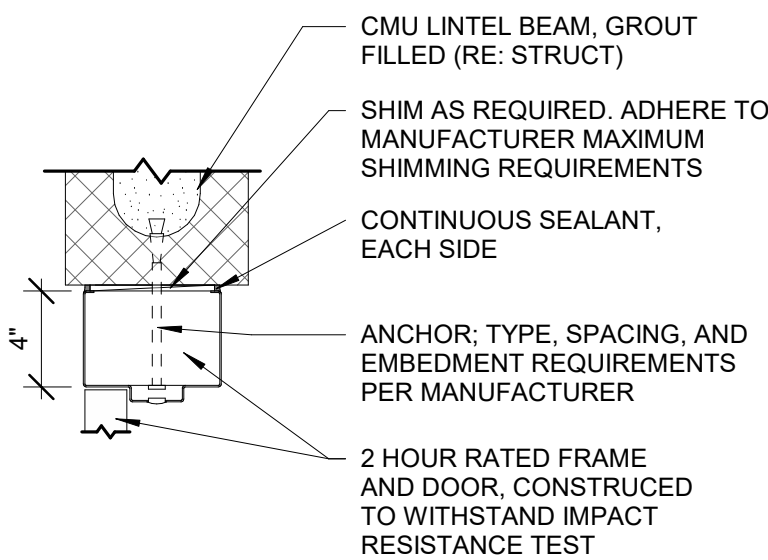
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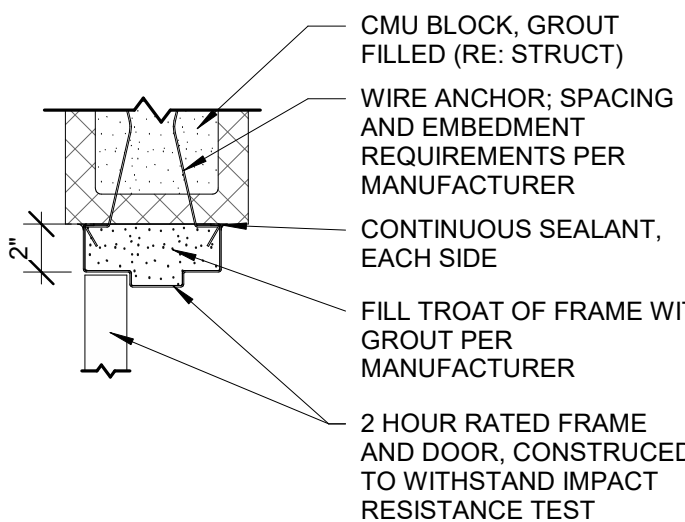
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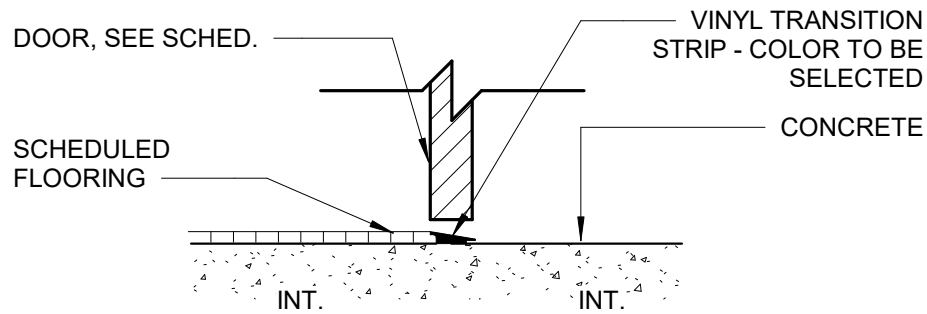
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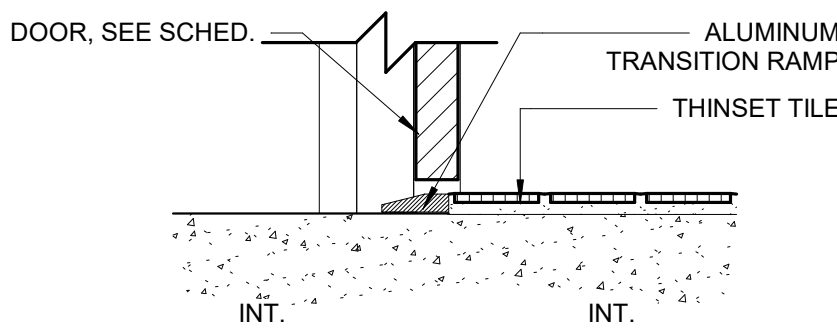
B3 DOOR HEADER
STORM SHELTER



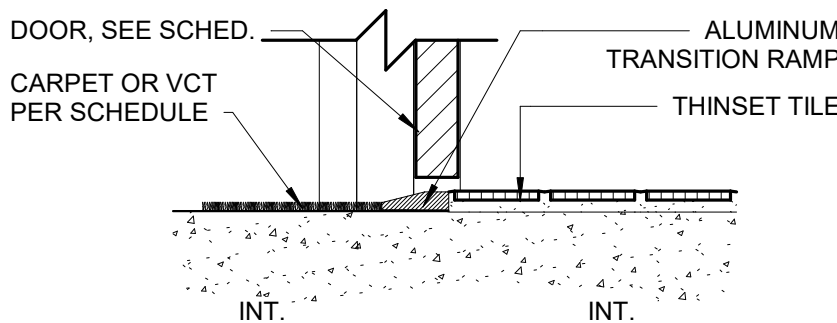
A3 DOOR JAMB
STORM SHELTER



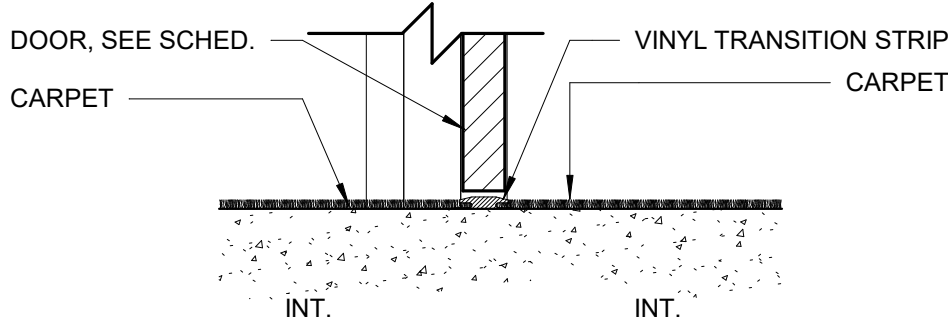
A5 THRESHOLD -
INT CONC TO CPT, VCT, RF



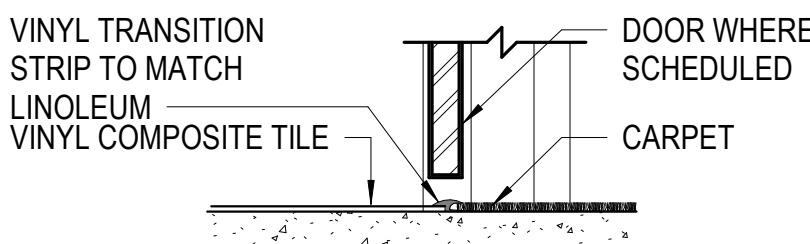
E7 THRESHOLD - CONC TO TILE



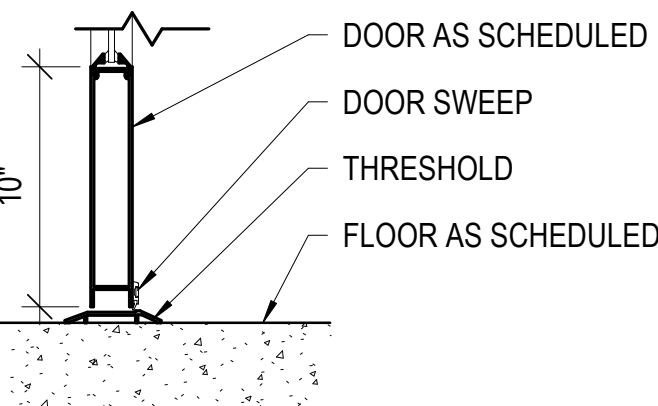
D7 THRESHOLD - CPT, LVT, VCT
TO TILE



C7 THRESHOLD -
CPT TO CPT



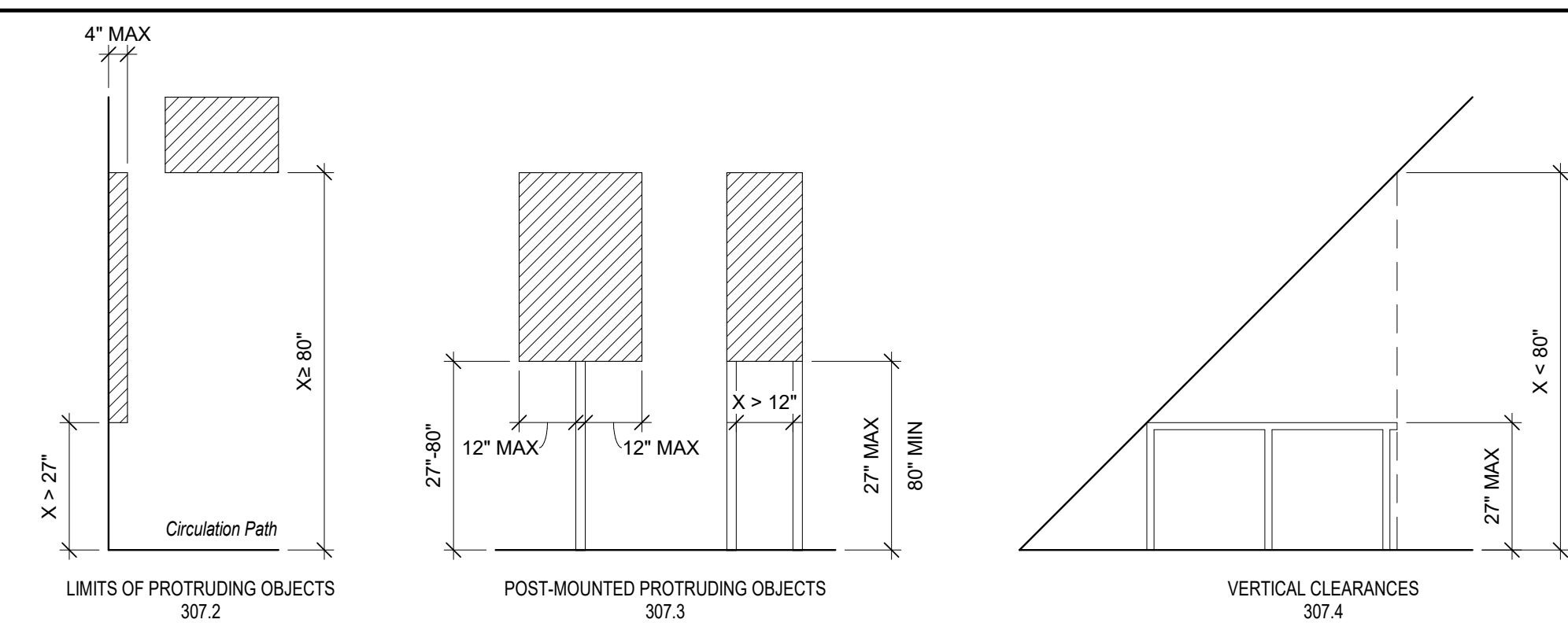
B7 THRESHOLD - VCT TO CPT



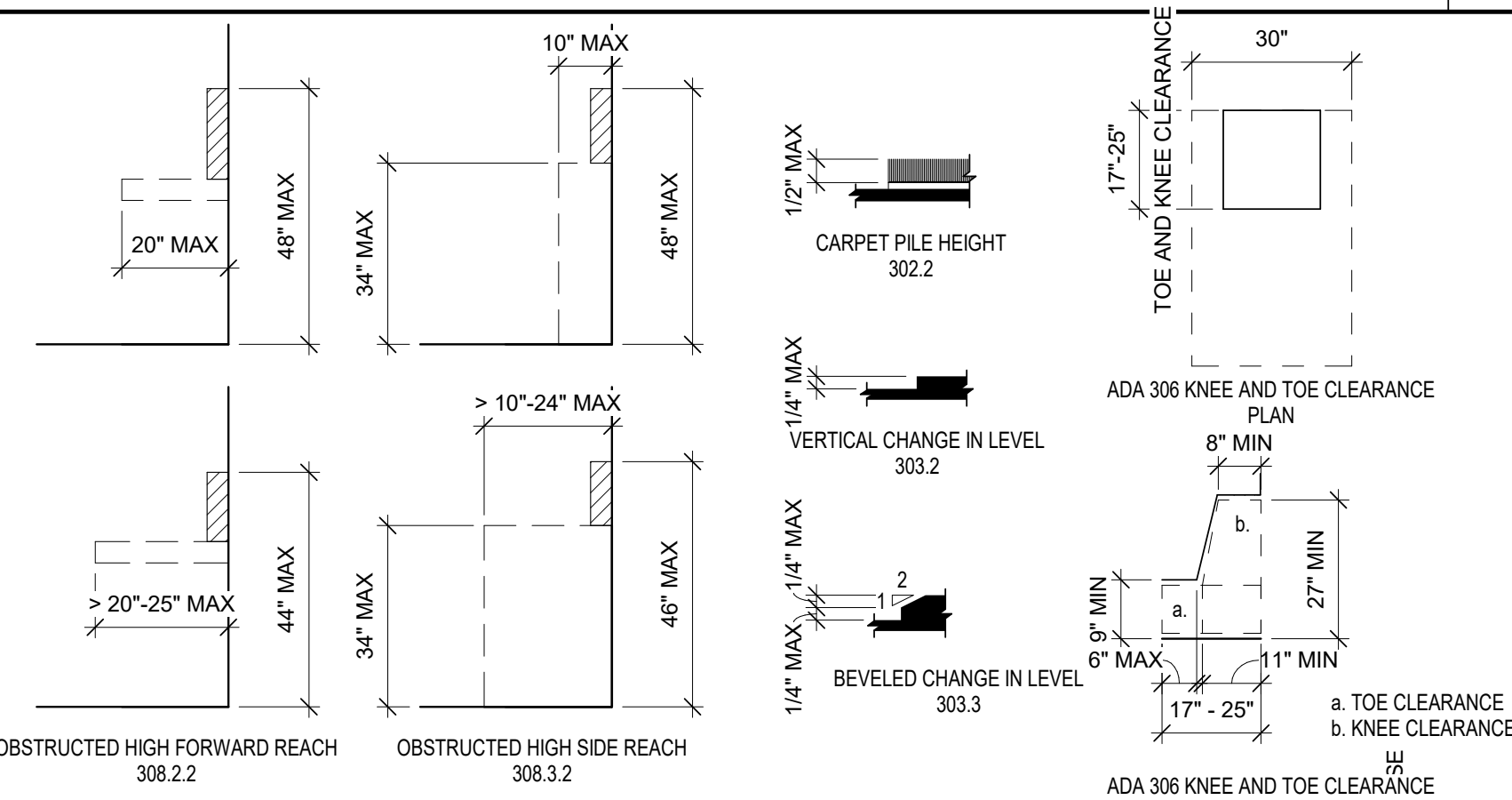
A7 STOREFRONT - SILL - DOOR

#	Description	Date
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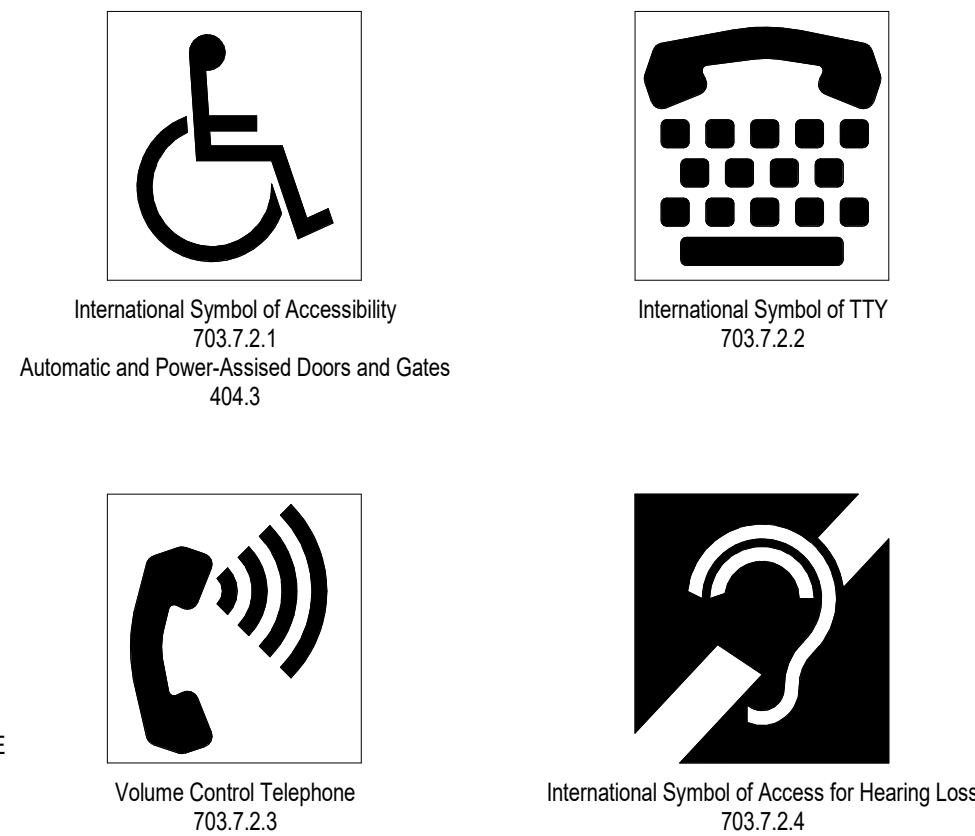
TYPICAL MOUNTING HEIGHTS



* 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.



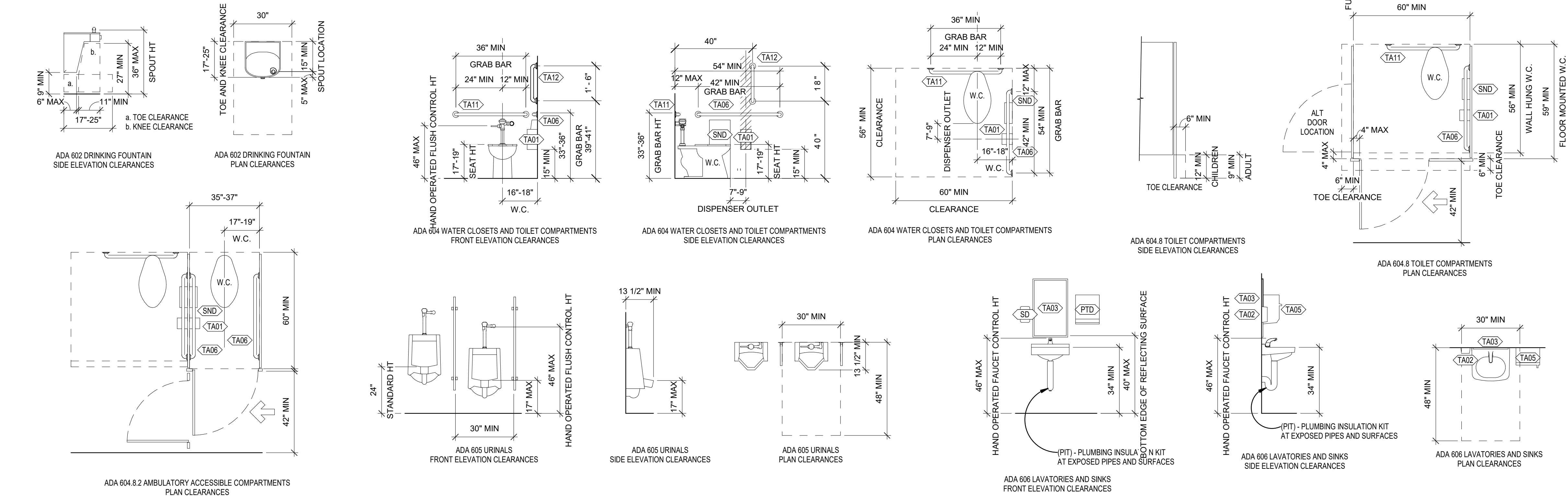
SYMBOLS OF ACCESSIBILITY



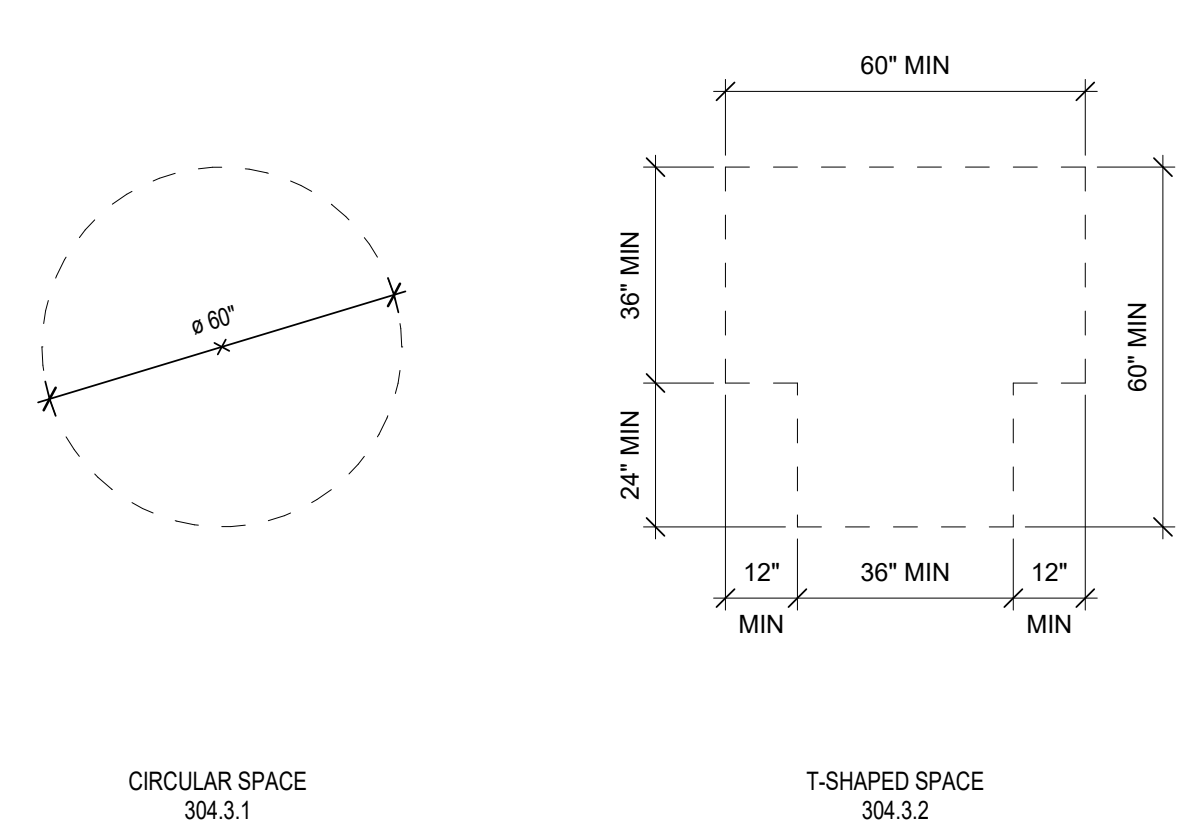
SHEET NOTES

- A. THESE ARE TYPICAL DIAGRAMS INTENDED TO SHOW MOUNTING HEIGHTS, DIMENSIONS, SPATIAL REQUIREMENTS, ETC. FOR BOTH ACCESSIBLE AND NON-ACCESSIBLE FIXTURES AND ACCESSORIES.
- B. NOT ALL DEVICES, FIXTURES, ACCESSORIES, ETC. THAT ARE SHOWN IN THESE DIAGRAMS ARE APPLICABLE TO THIS PROJECT. REFER TO ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS, ROOM FINISH SCHEDULE, MEP DWGS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND IDENTIFICATION OF WHICH SPECIFIC DEVICES, FIXTURES AND ACCESSORIES ARE INCLUDED UNDER THIS CONTRACT.
- C. COMPLY WITH THE MOUNTING HEIGHTS SHOWN ON THESE DIAGRAMS UNLESS SPECIFICALLY DIMENSIONED ELSEWHERE ON THESE DRAWINGS.
- D. ALL DIMENSIONS ARE FROM FACE OF FINISH MATERIAL.

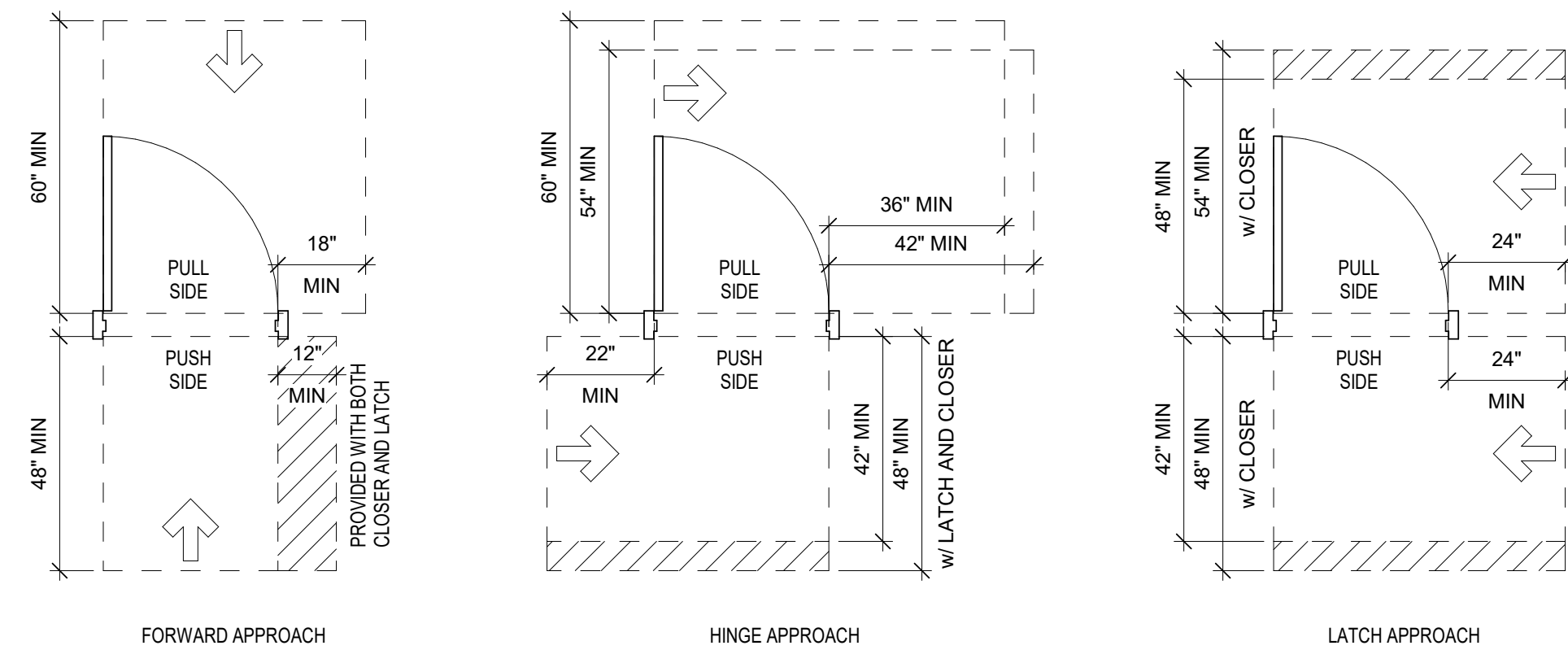
PLUMBING ELEMENTS AND FACILITIES



CLEAR FLOOR AND GROUND SPACE



DOOR MANEUVERING CLEARANCES



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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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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
CHK'D BY:	PJM

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TYPICAL MOUNTING HEIGHTS

I-001

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS

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

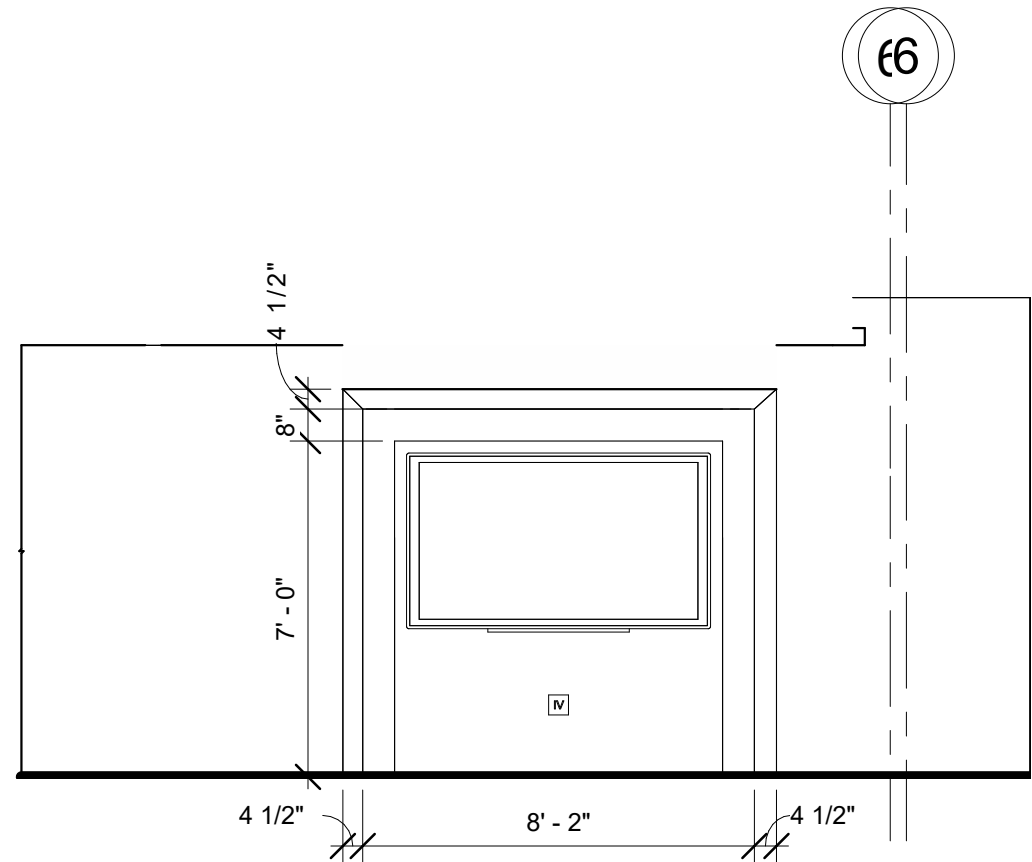
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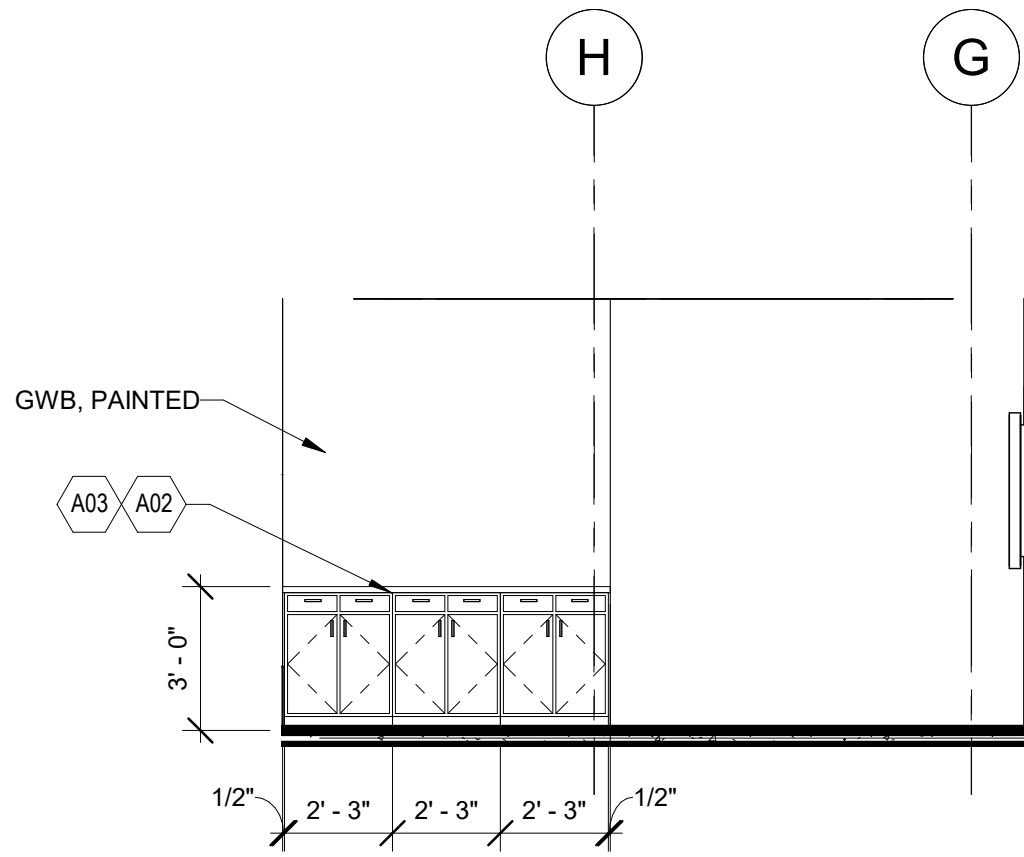
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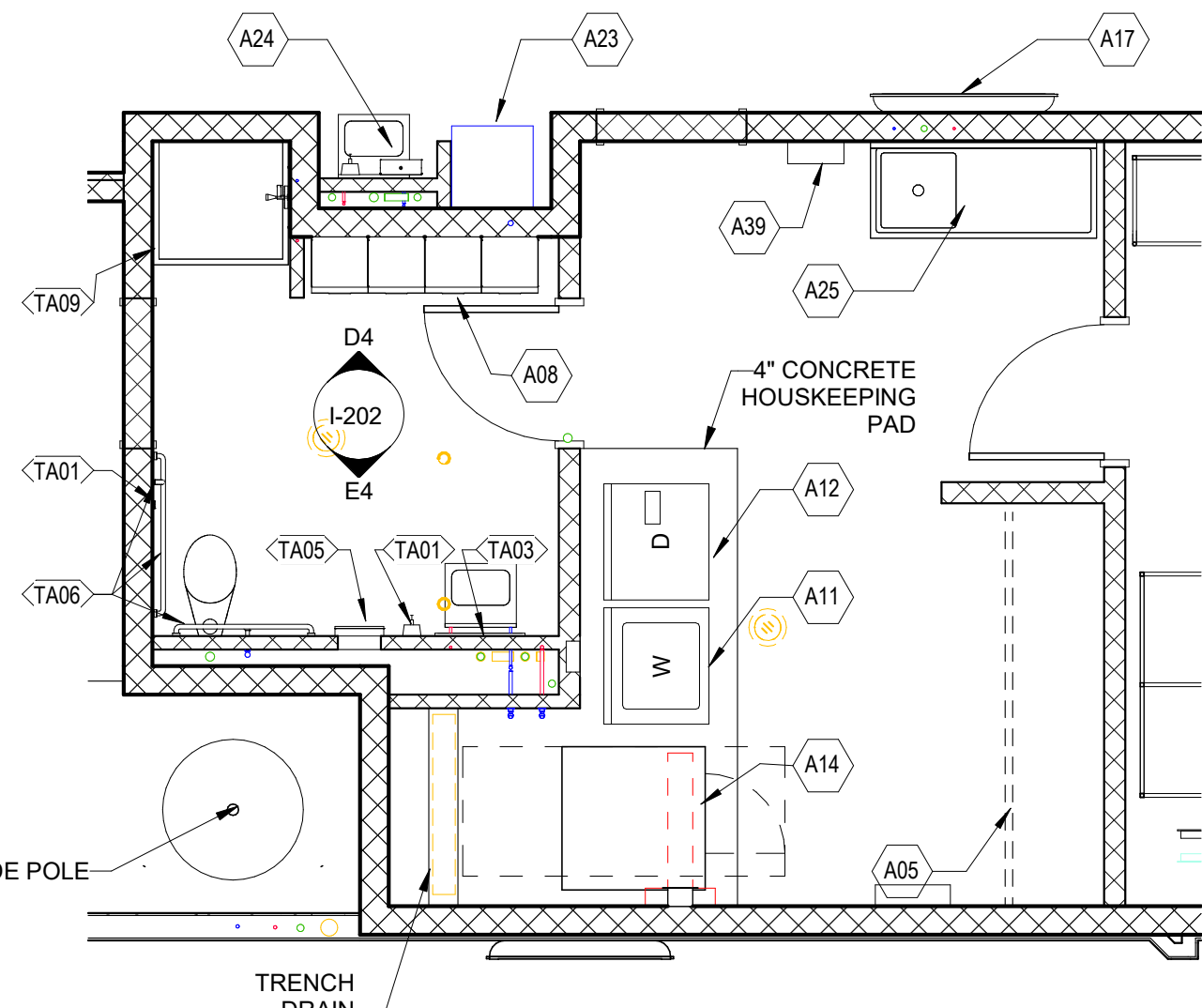
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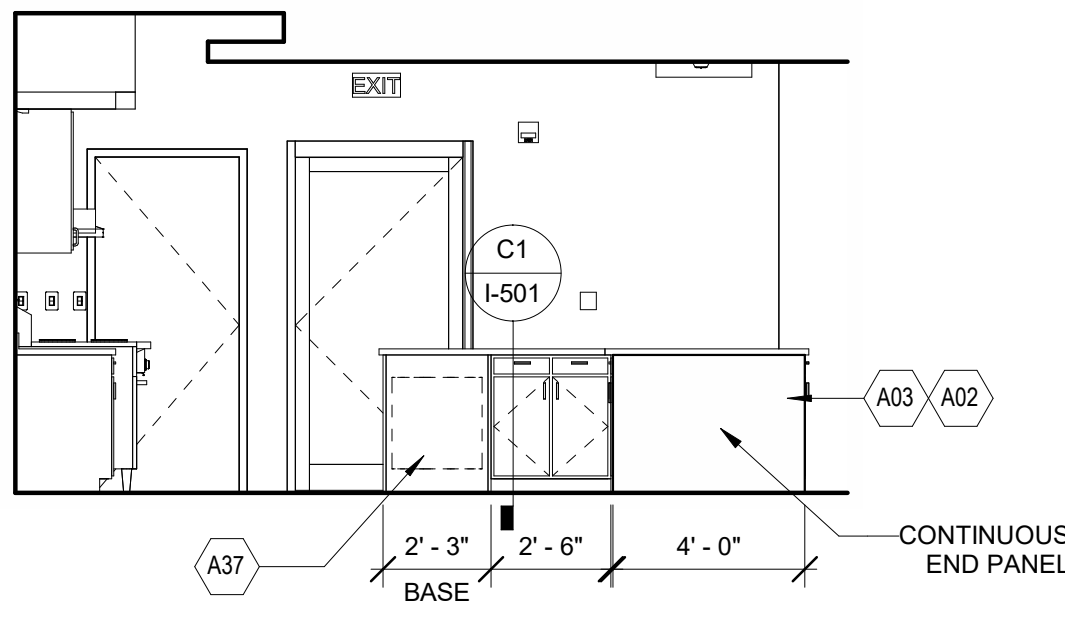
D2 DAY ROOM ELEVATION
1/4" = 1'-0"



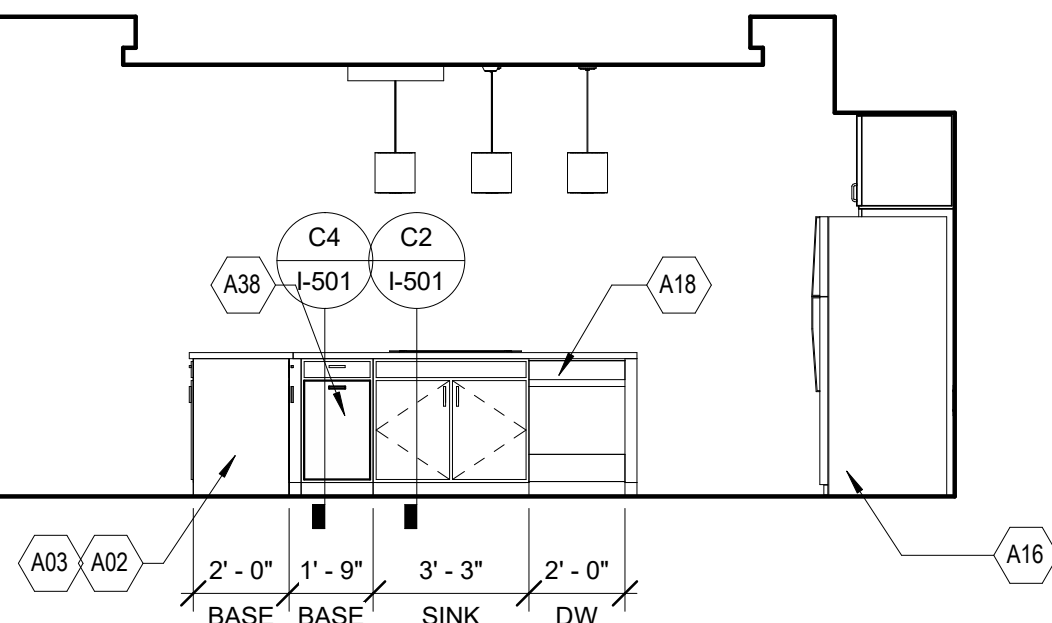
C2 CONF. ROOM EAST ELEVATION
1/4" = 1'-0"



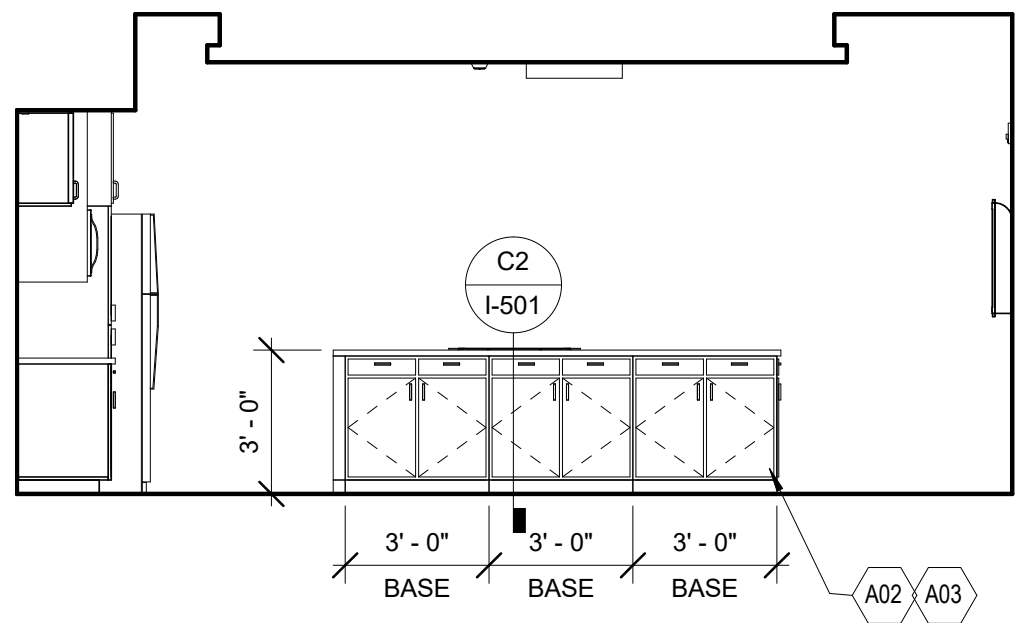
A1 DECON ENLARGED FLOOR PLAN



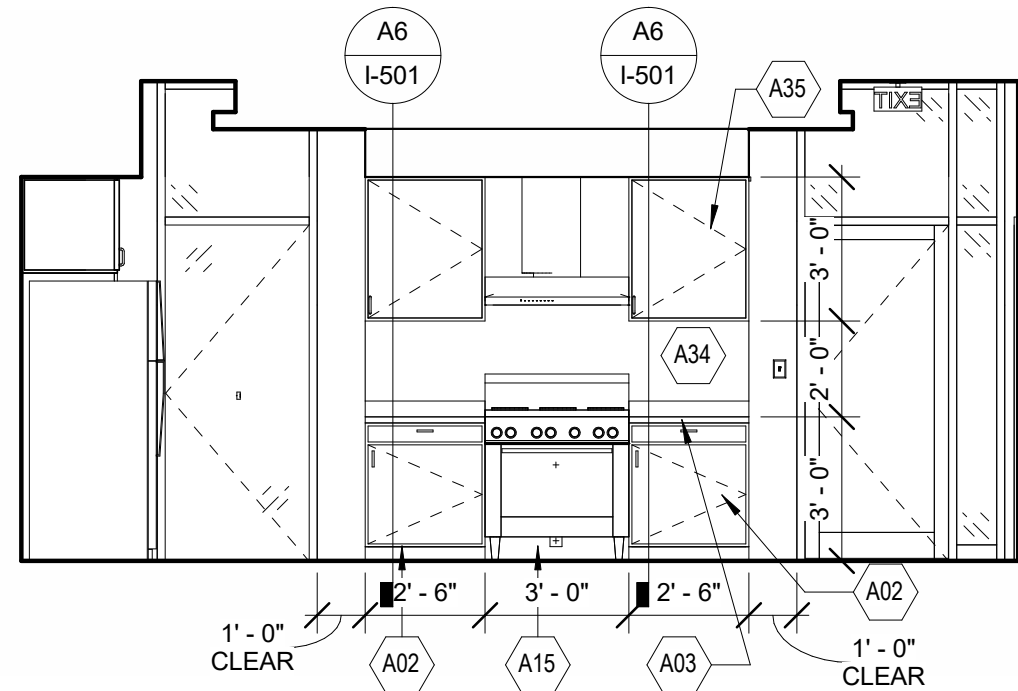
D3 KITCHEN NORTH ELEVATION
1/4" = 1'-0"



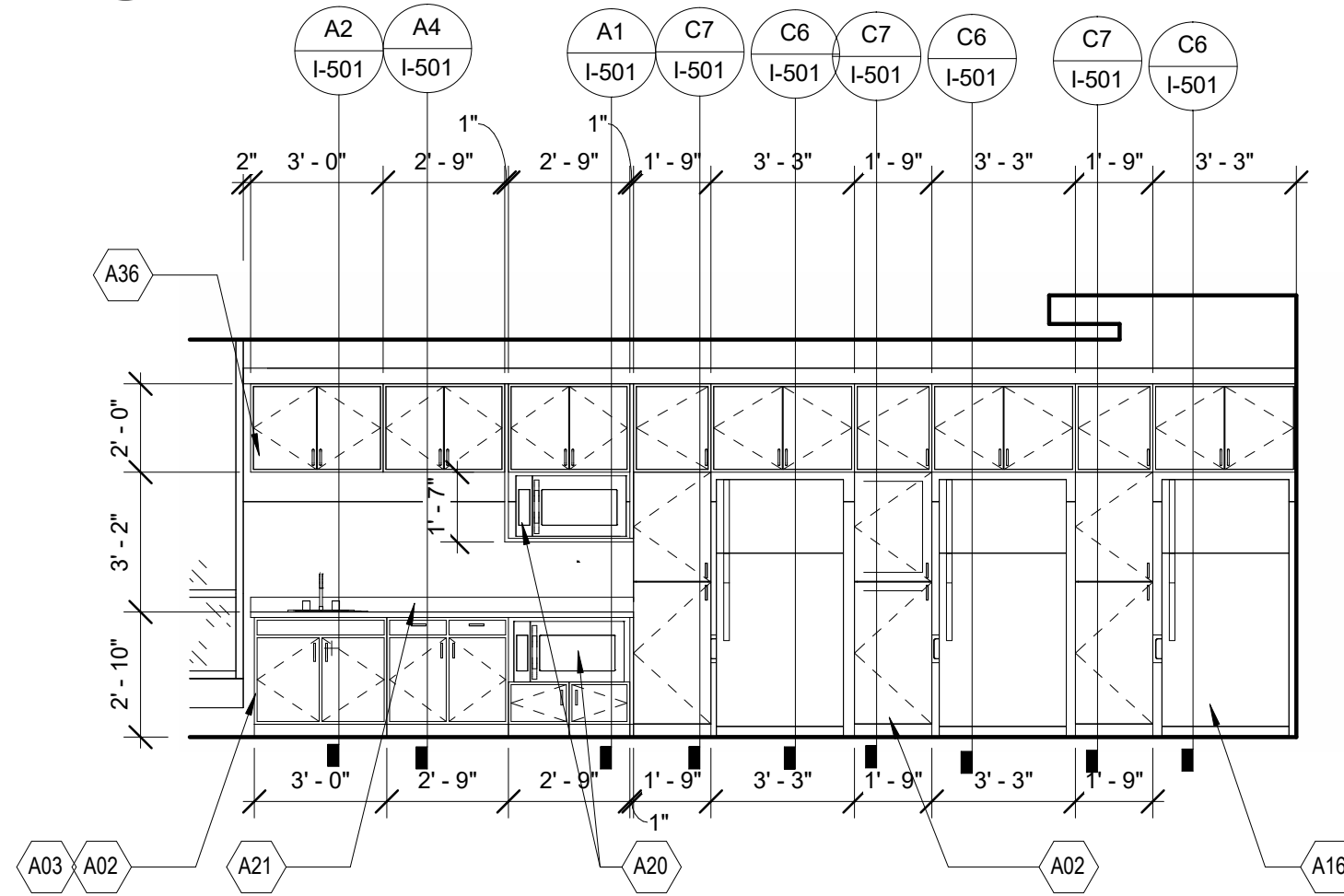
C3 KITCHEN ISLAND EAST ELEVATION
1/4" = 1'-0"



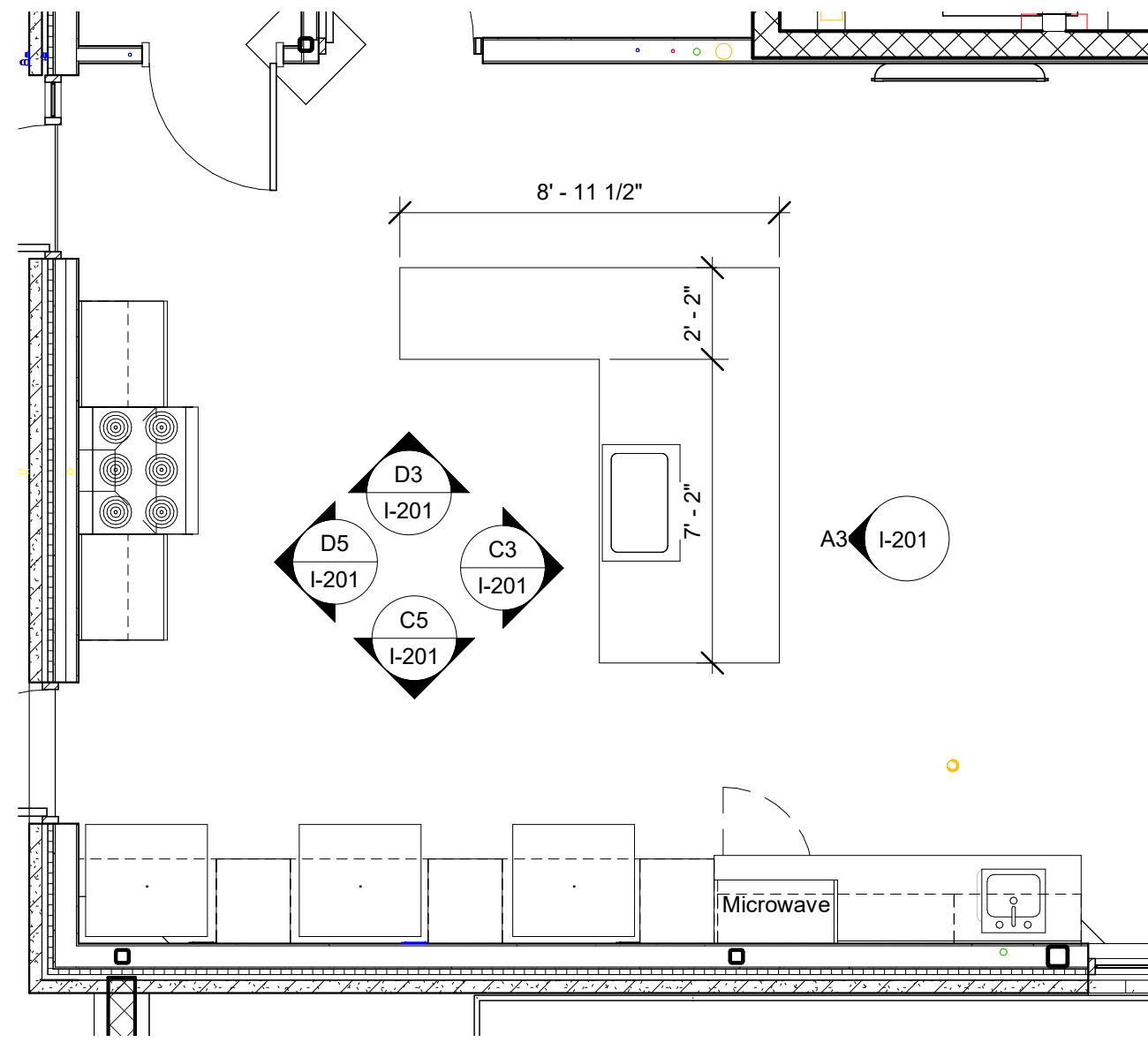
A3 KITCHEN ISLAND WEST ELEVATION
1/4" = 1'-0"



D5 KITCHEN WEST ELEVATION
1/4" = 1'-0"



C5 KITCHEN SOUTH ELEVATION
1/4" = 1'-0"



A5 KITCHEN ENLARGED PLAN
1/4" = 1'-0"

KEYNOTES

Note Number	Note Description
A02	PLYBOO BASE CABINETS
A03	QUARTZ COUNTERTOP
A05	GEAR DRYER RACK (HEAVY-DUTY HANGING ROD) W/WIRE SHELF ABOVE ROD
A08	5-TIER METAL PERSONAL LOCKERS
A11	HEAVY-DUTY RESIDENTIAL WASHER, OFCI
A12	HEAVY-DUTY RESIDENTIAL DRYER, OFCI
A14	COMMERCIAL WASHER/EXTRACTOR, BASIS OF DESIGN: HUEBSCH MODEL HYN040FNH, OFCI
A15	6-BURNER RANGE W/ OVEN & RESIDENTIAL HOOD W/ INTEGRAL FIRE SUPPRESSION
A16	RESIDENTIAL REFRIGERATOR, OFCI
A17	WALL-MOUNTED TV , OFCI. BLOCKING AND TV BRACKET, CFCI
A18	DISHWASHER-OFCI
A20	MICROWAVE - OFCI
A21	COFFEE MAKER - OFCI
A23	BOOT WASH, SEE PLUMBING
A24	HAND WASHING SINK FOR CONTAMINANT CONTROL W/ EYEWASH ATTACHMENT, SEE PLUMBING
A25	2-COMPARTMENT STAINLESS STEEL SINK W/ DRAINBOARDS
A34	STAINLESS STEEL BACKSPLASH
A35	36" HIGH PLYBOO WALL CABINETS
A36	24" HIGH PLYBOO WALL CABINETS
A37	BELOW COUNTER TRASH RECEPTACLE, RUBBERMAID BRUTE 20 GALLON - MODEL FG262000, W/ DOLLY - MODEL FG264043BLA, OFCI
A38	PULL-OUT DOUBLE RECYCLING CABINET
A39	FIRST AID KIT

TOILET ACCESSORIES...

Note Number	Note Description
TA01	TOILET PAPER DISPENSER - CFCI
TA02	SOAP DISPENSER - MOTION ACTIVATED AUTOMATIC - CFCI
TA03	FRAMED MIRROR - CFCI
TA04	FRAMELESS MIRROR - CFCI
TA05	PAPER TOWEL DISPENSER - MOTION ACTIVATED AUTOMATIC AND WASTE RECEPTACLE -CFCI
TA06	GRAB BAR- 42" CFCI
TA07	TOWEL HOOK-CFCI
TA08	FOLD DOWN CHANGING STATION-CFCI
TA09	SHOWER ROD AND CURTAIN-CFCI
TA11	GRAB BAR- 36" CFCI
TA12	GRAB BAR- 18" CFCI



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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

#	Description	Date
1	ASB 01	11/21/2022



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MO# A-2009021701

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PROJECT NO: 18225R21001
DATE: 11.21.2022
DRAWN BY: CLW
CHK'D BY: BJD

**INTERIOR
DESIGN
ELEVATIONS**

I-201

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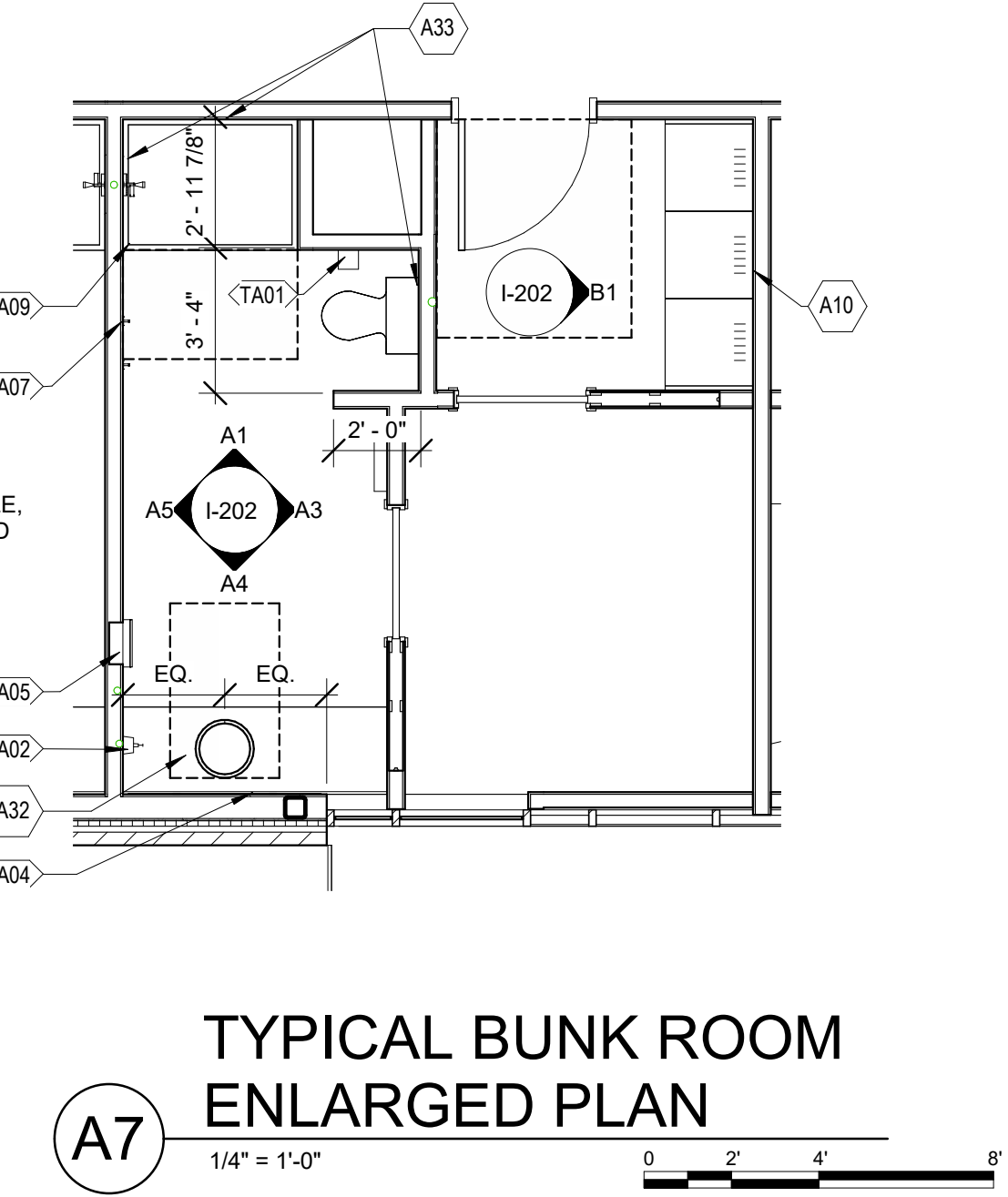
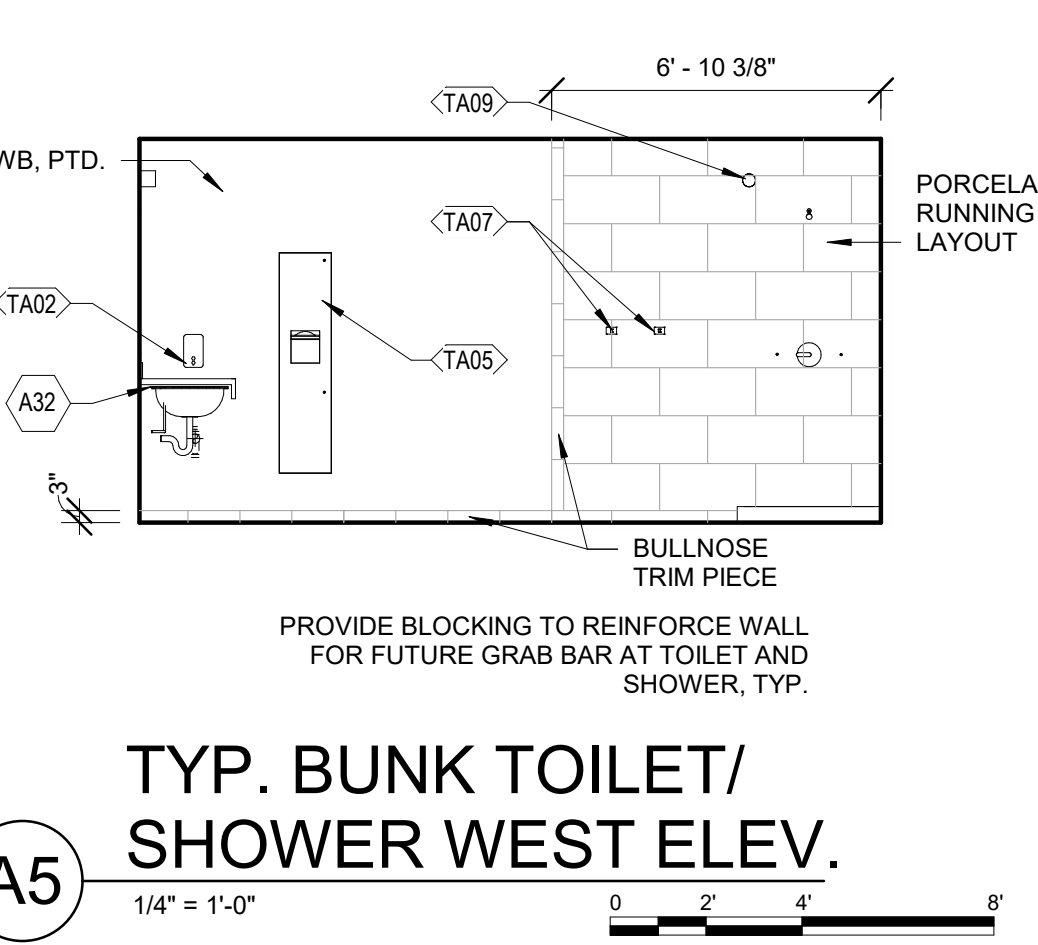
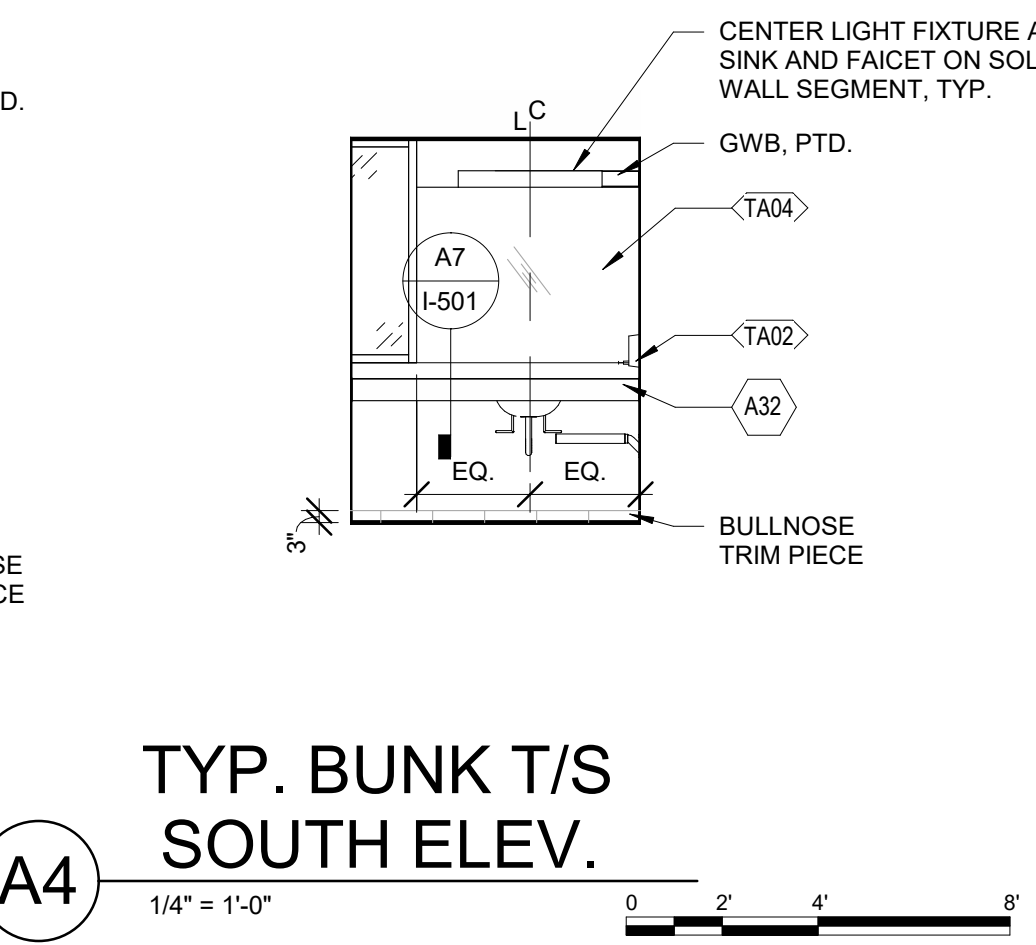
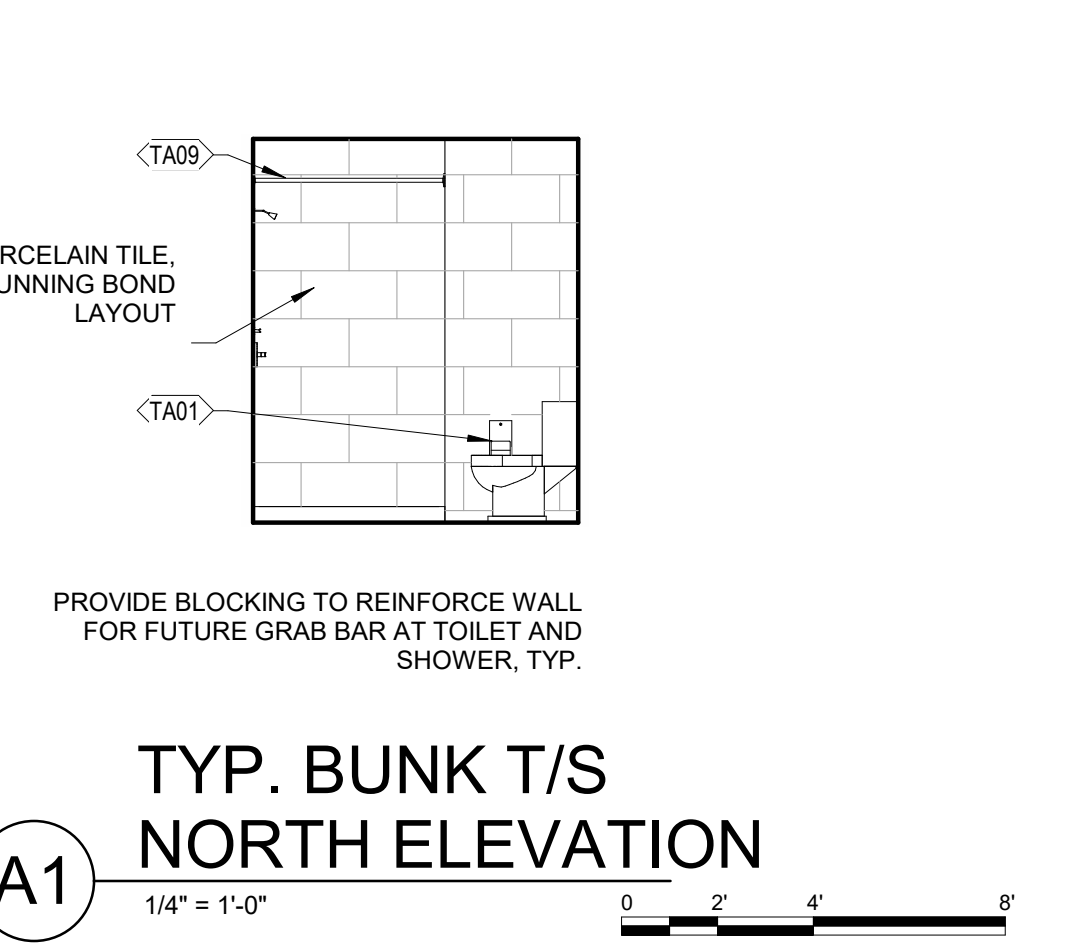
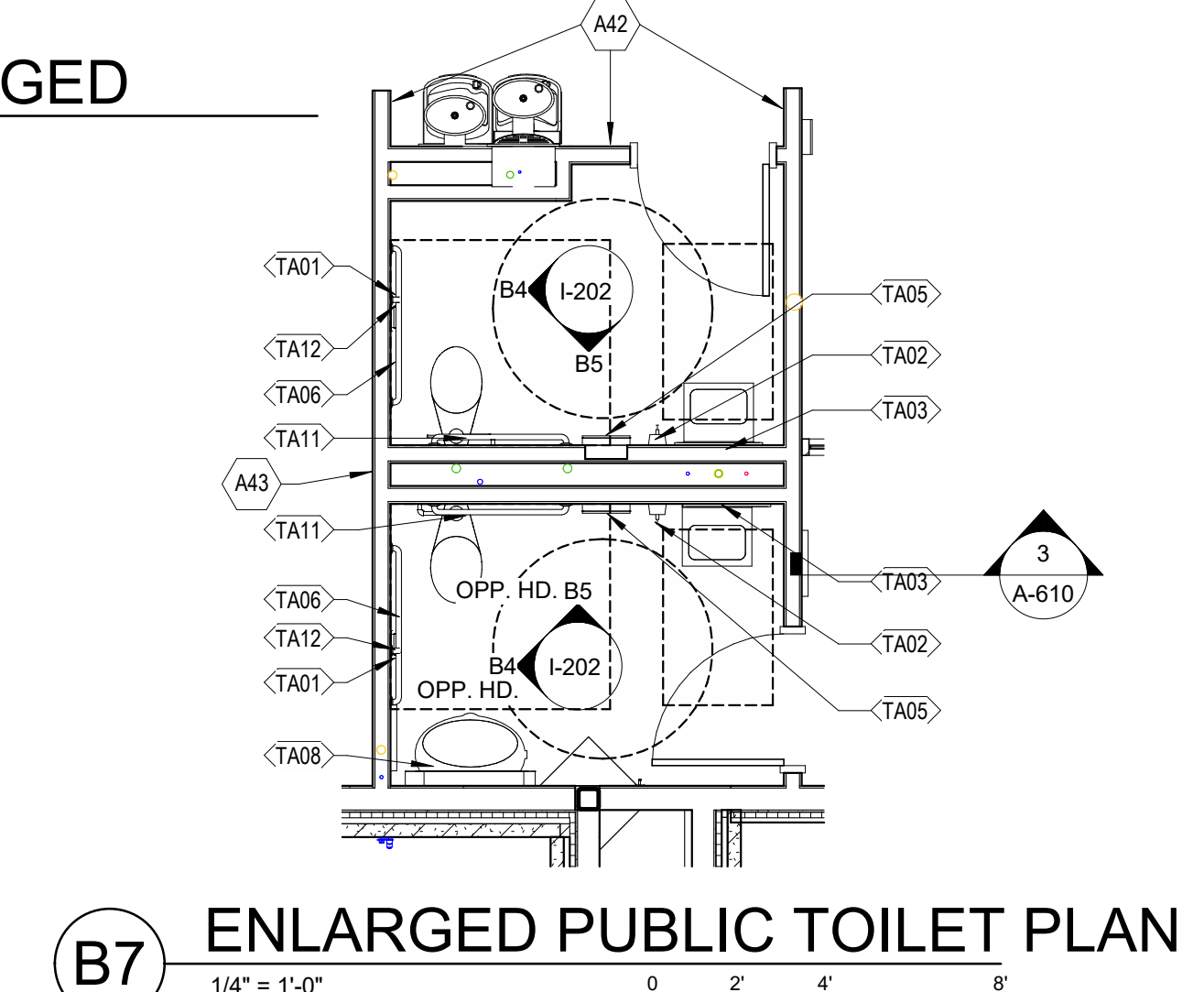
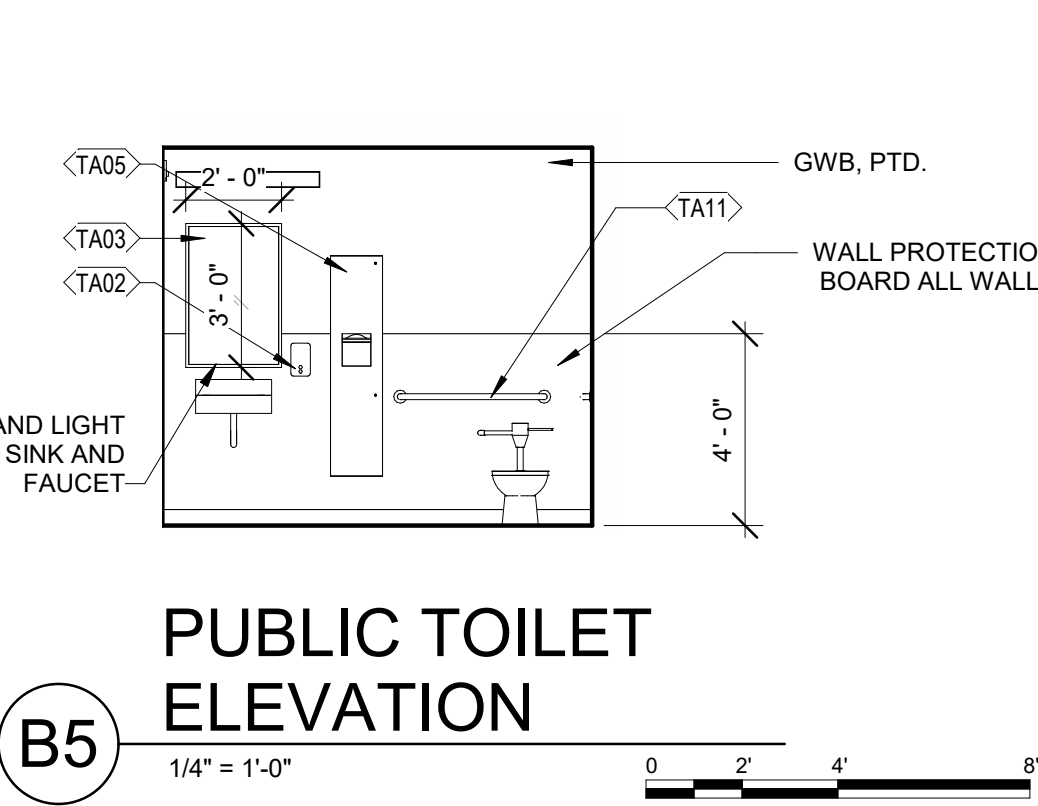
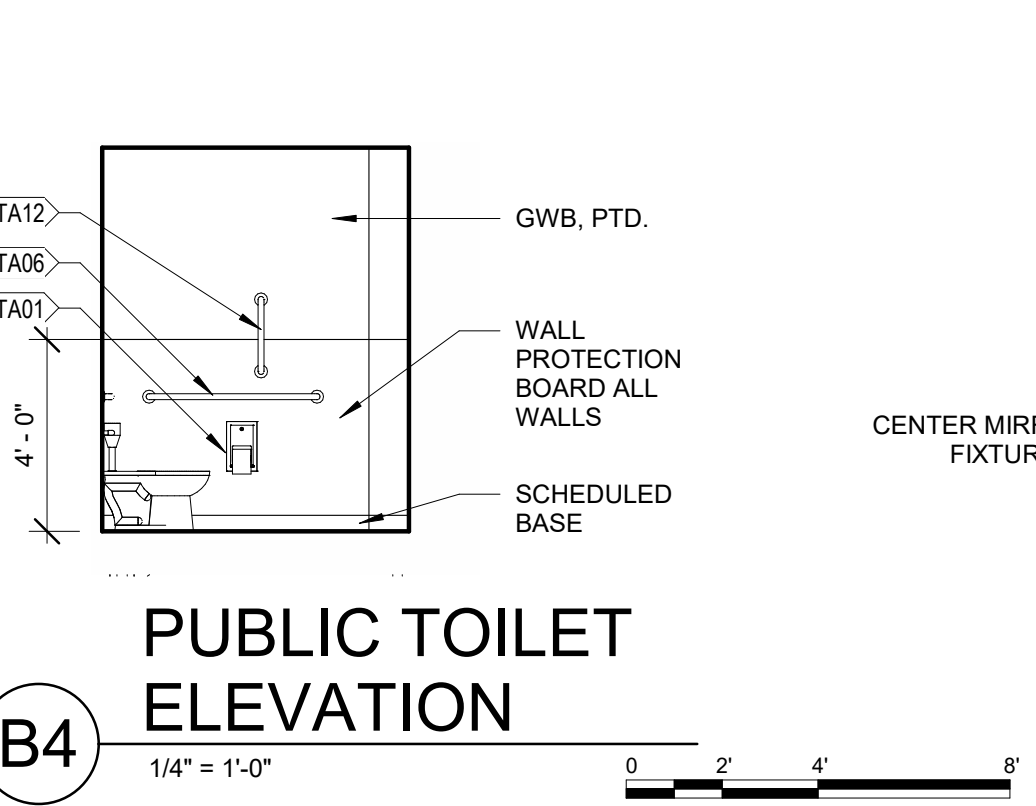
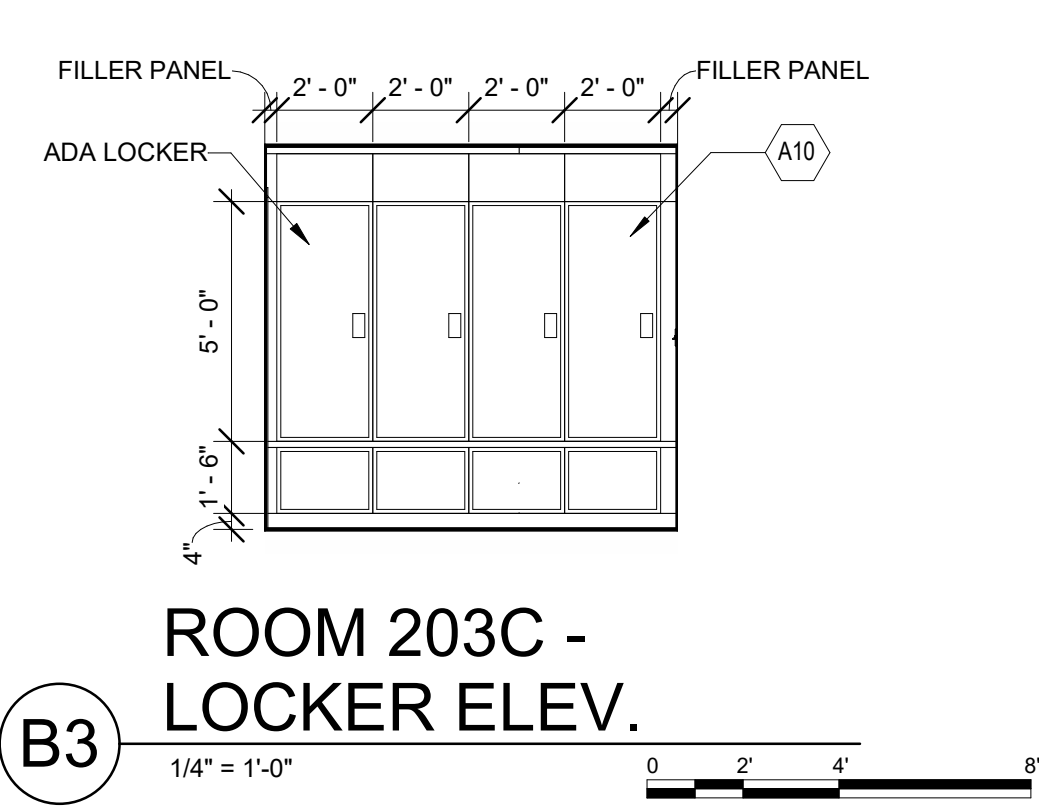
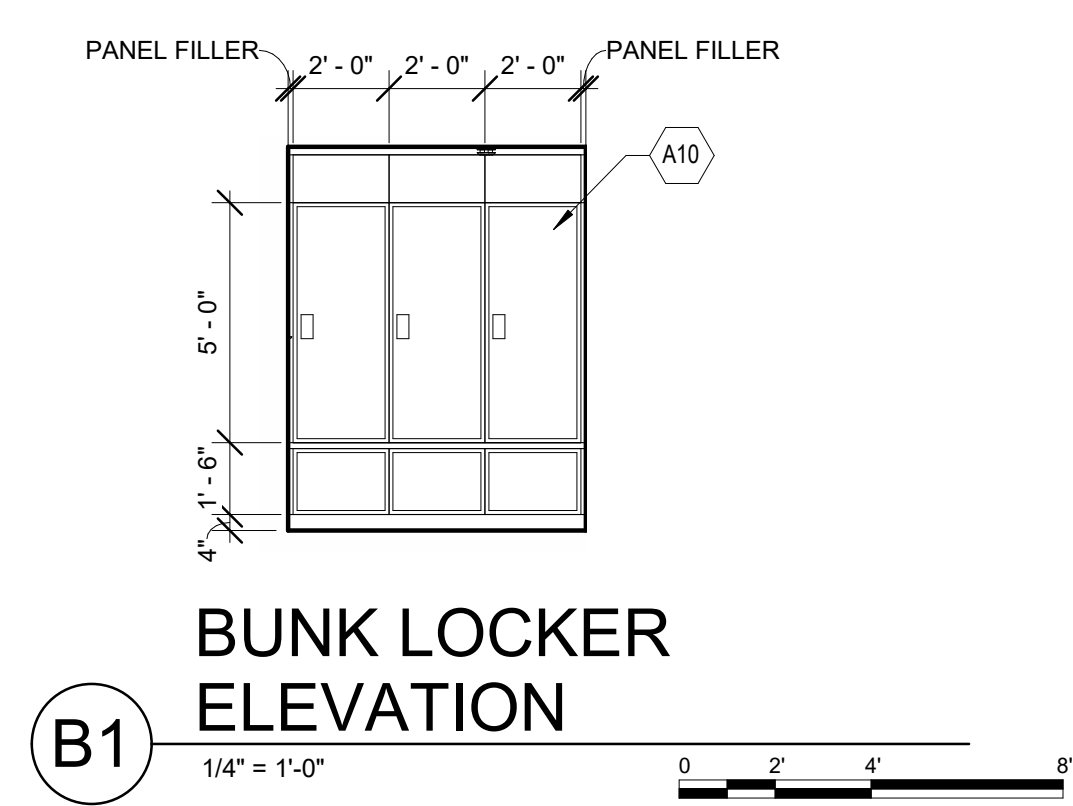
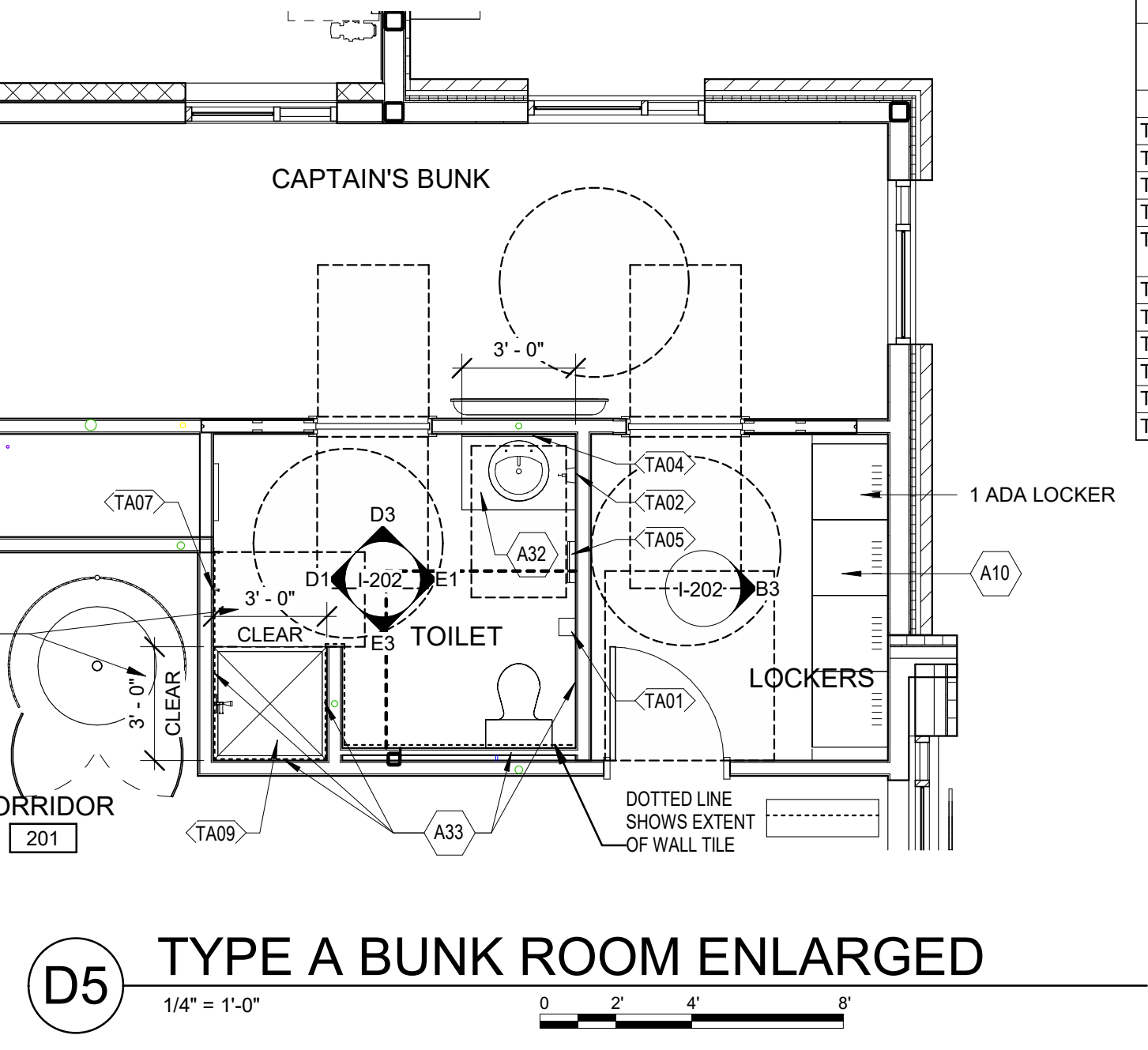
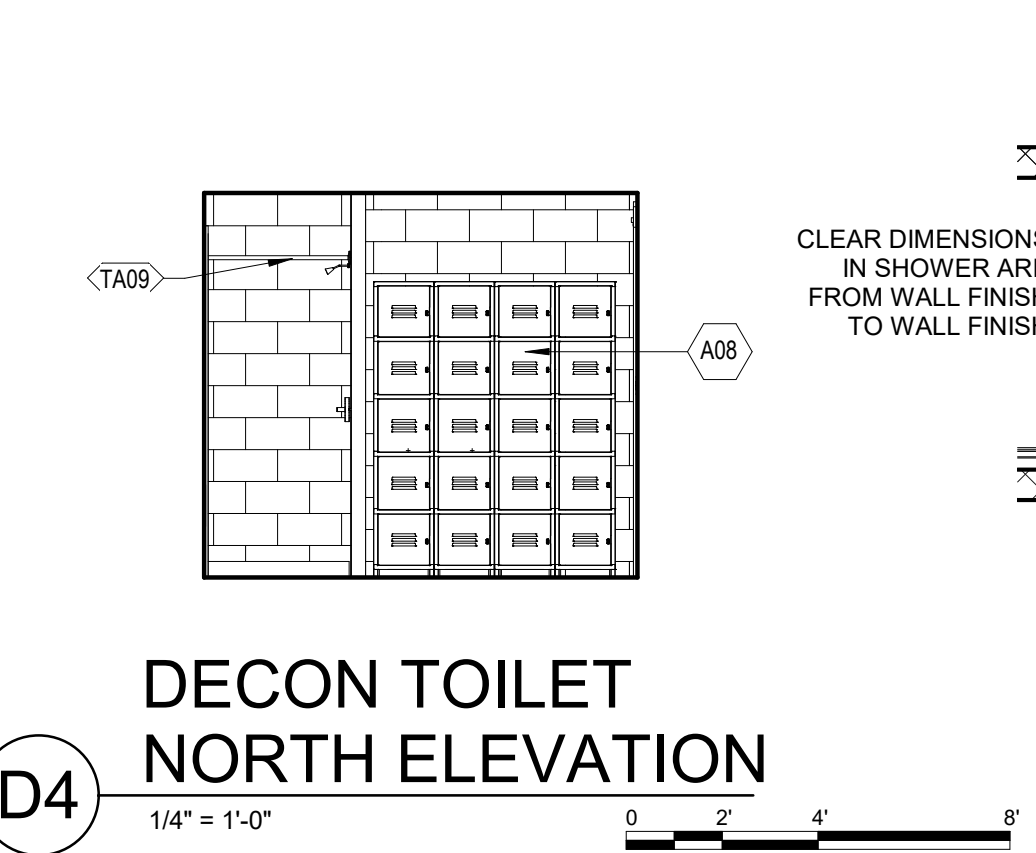
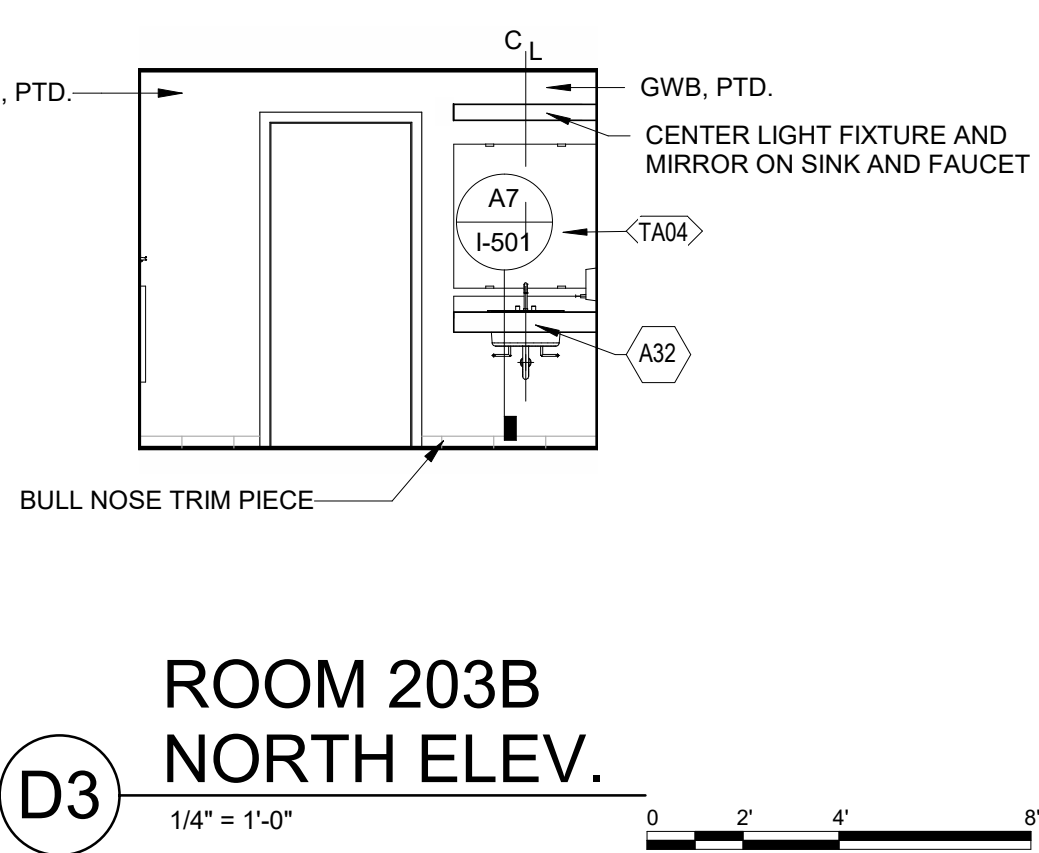
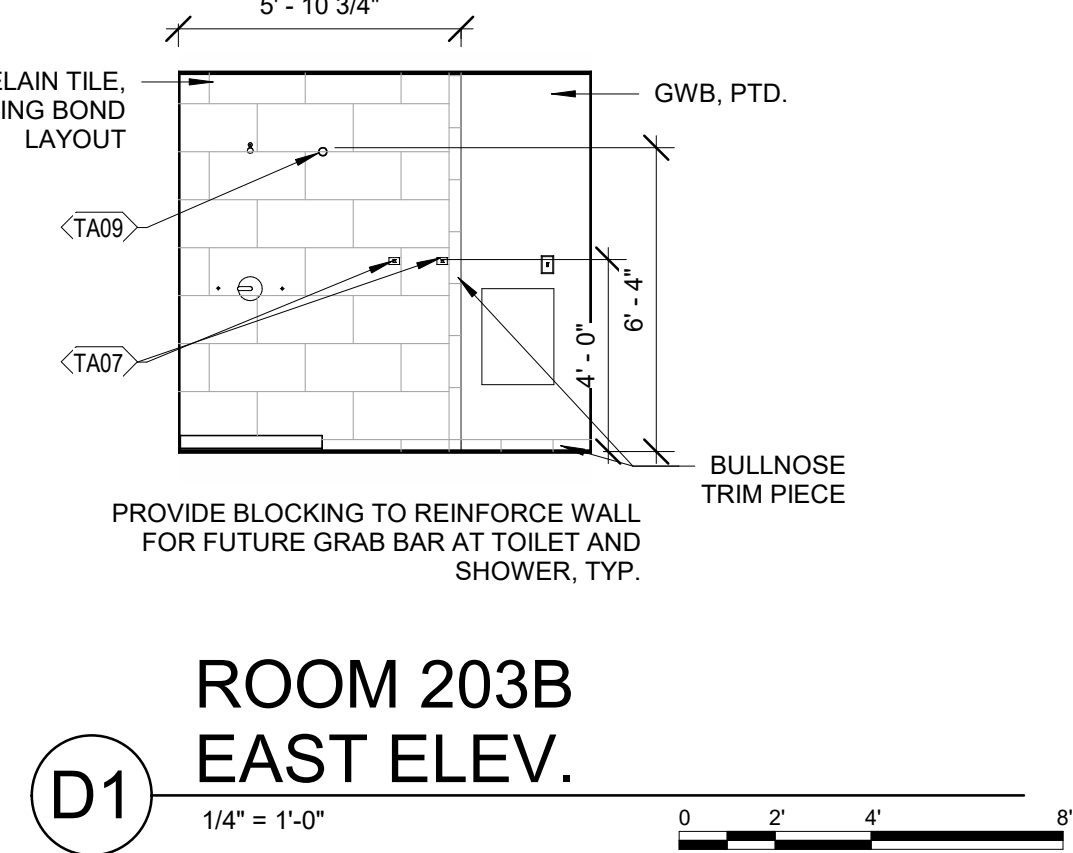
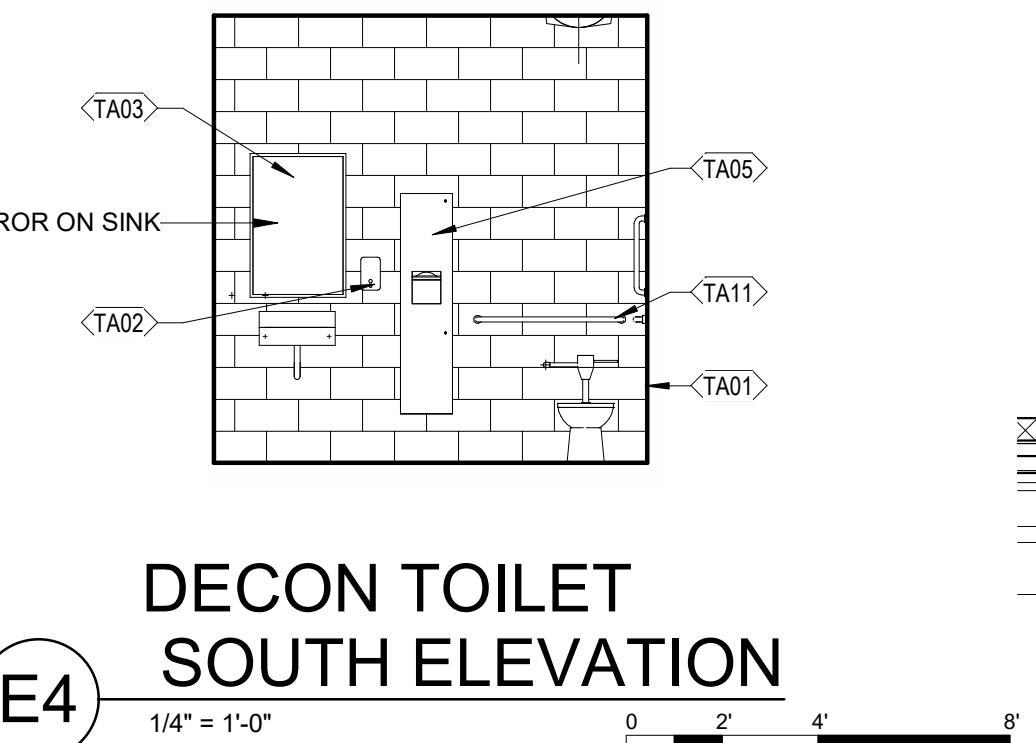
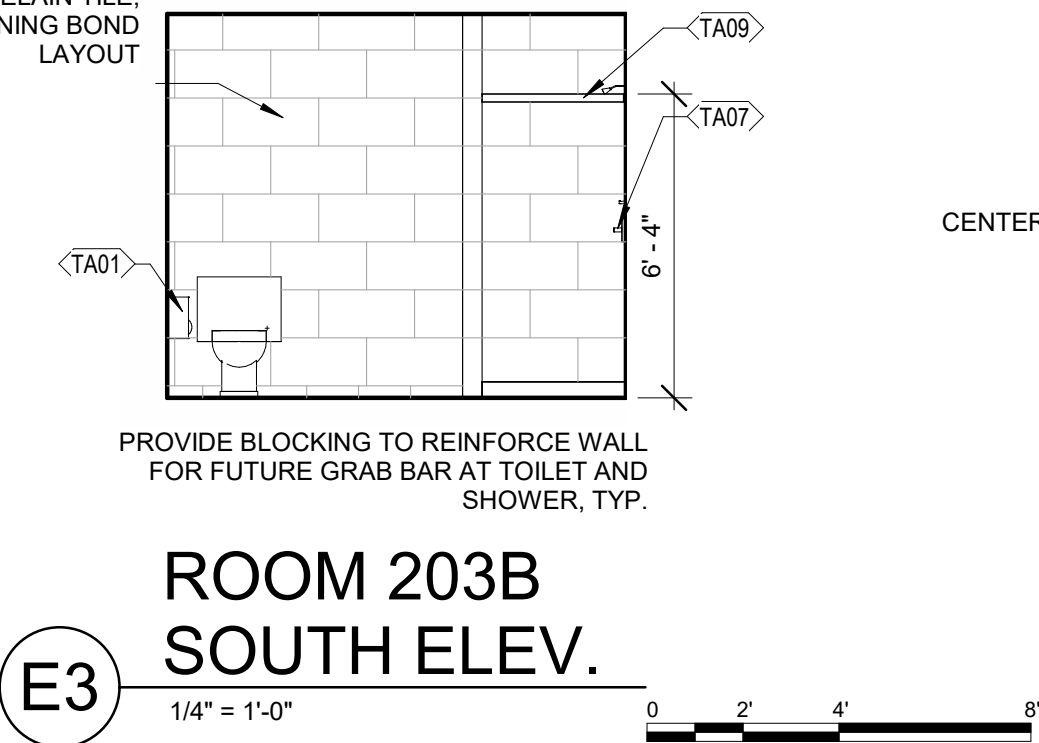
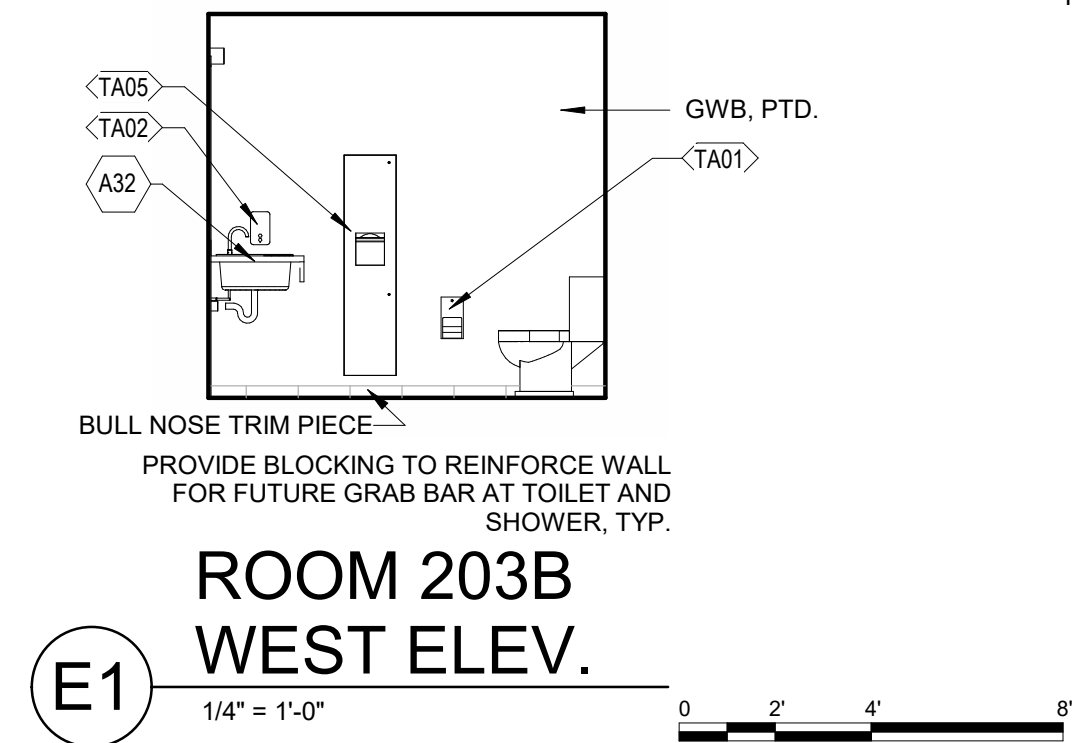
E

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KEYNOTES - I-202	
Note Number	Note Description
A08	5 TIER METAL PERSONAL LOCKERS
A10	24" X 24" DRAWER BASE LOCKER, TYP. ON 4" CONCRETE BASE. SLOPED TOP.
A32	SOLID SURFACE COUNTERTOP W/ INTEGRAL 4" BACKSPLASH AND 5" APRON
A33	REINFORCING IN WALL FOR FUTURE GRAB BARS/FOLDING SHOWER SEAT

TOILET ACCESSORIES..	
Note Number	Note Description
TA01	TOILET PAPER DISPENSER - CFCI
TA02	SOAP DISPENSER - MOTION ACTIVATED AUTOMATIC - CFCI
TA03	FRAMED MIRROR - CFCI
TA04	FRAMELESS MIRROR - CFCI
TA05	PAPER TOWEL DISPENSER - MOTION ACTIVATED AUTOMATIC AND WASTE RECEPTACLE -CFCI
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TA07	TOWEL HOOK-CFCI
TA08	FOLD DOWN CHANGING STATION-CFCI
TA09	SHOWER ROD AND CURTAIN-CFCI
TA11	GRAB BAR- 36" CFCI
TA12	GRAB BAR- 18" CFCI

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CHK'D BY:	PJM

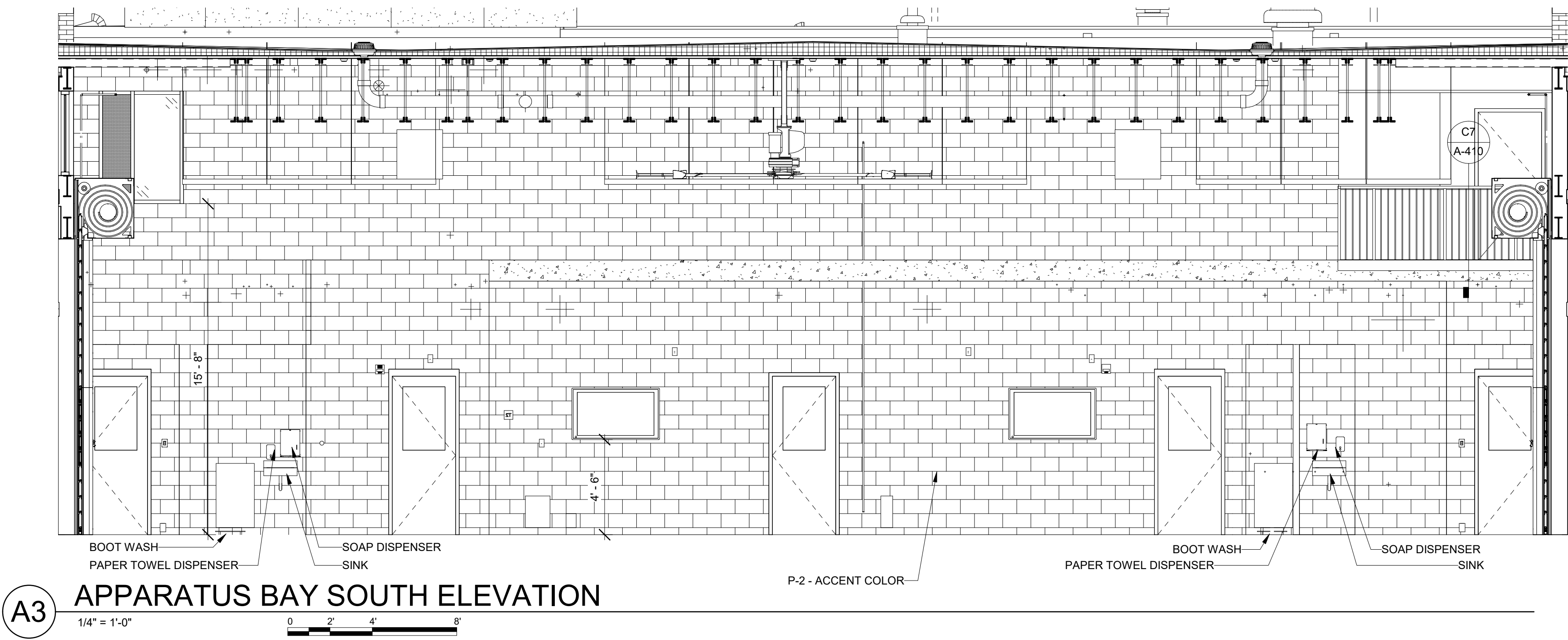
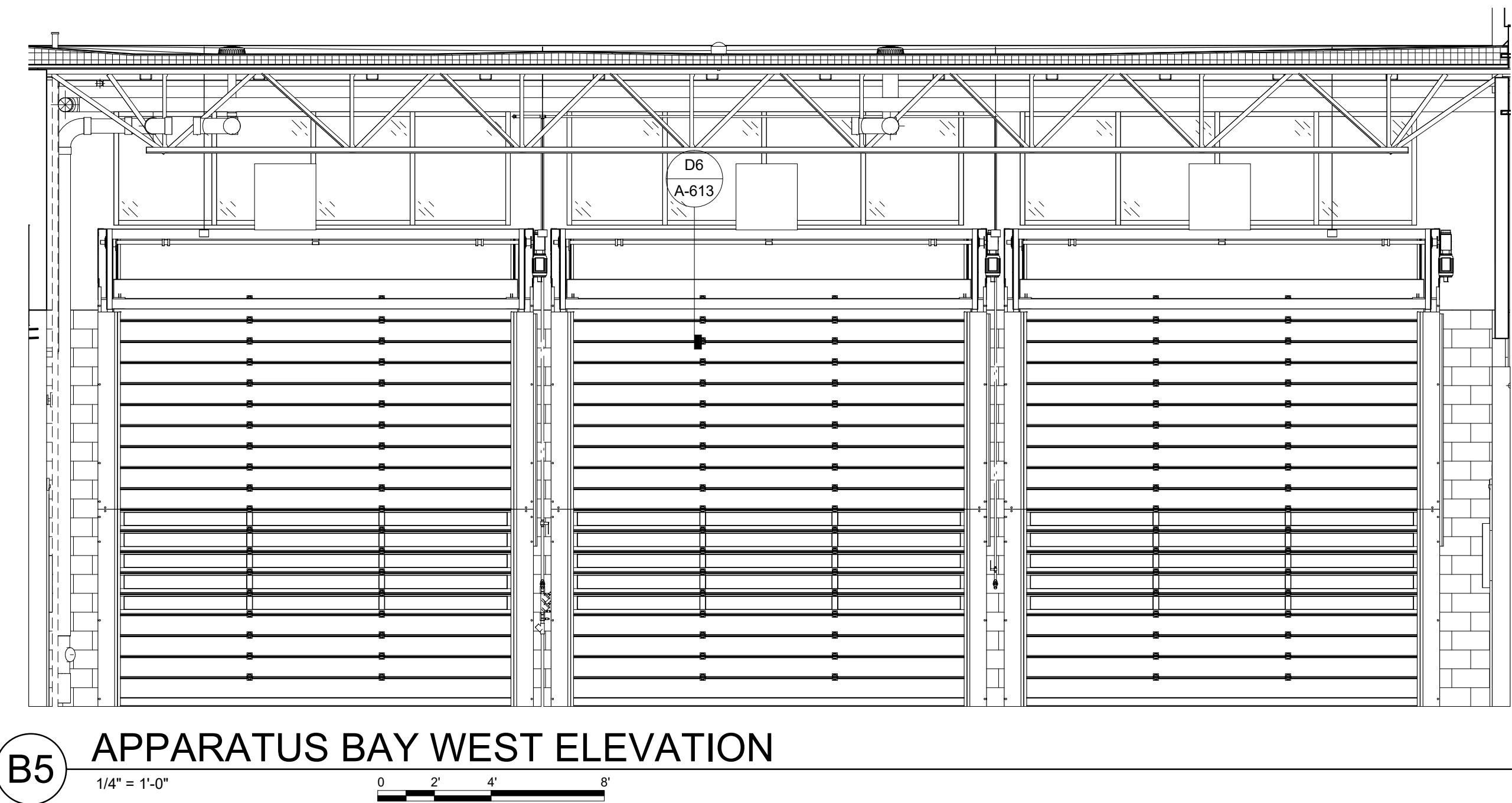
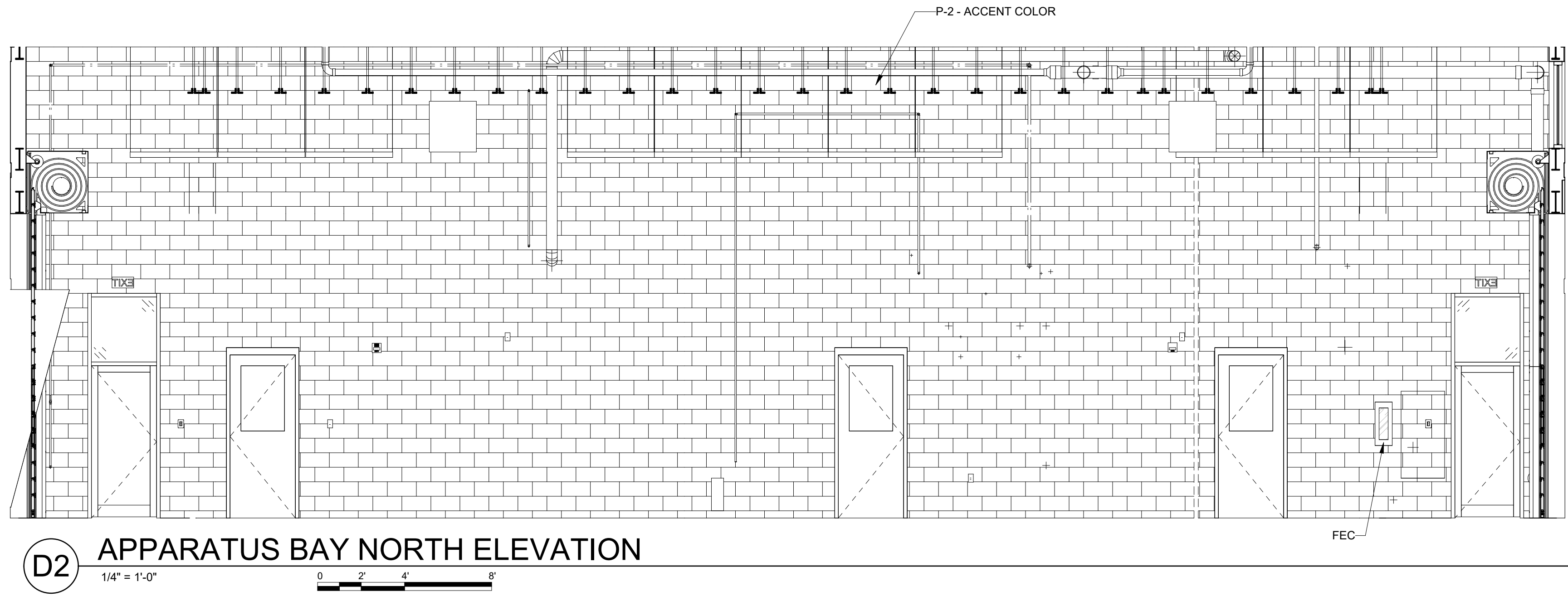
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**INTERIOR
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I-202

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DATE: 11.21.2022

DRAWN BY: JSP

CHK'D BY: PJM

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APPARATUS BAY ELEVATIONS

I-203

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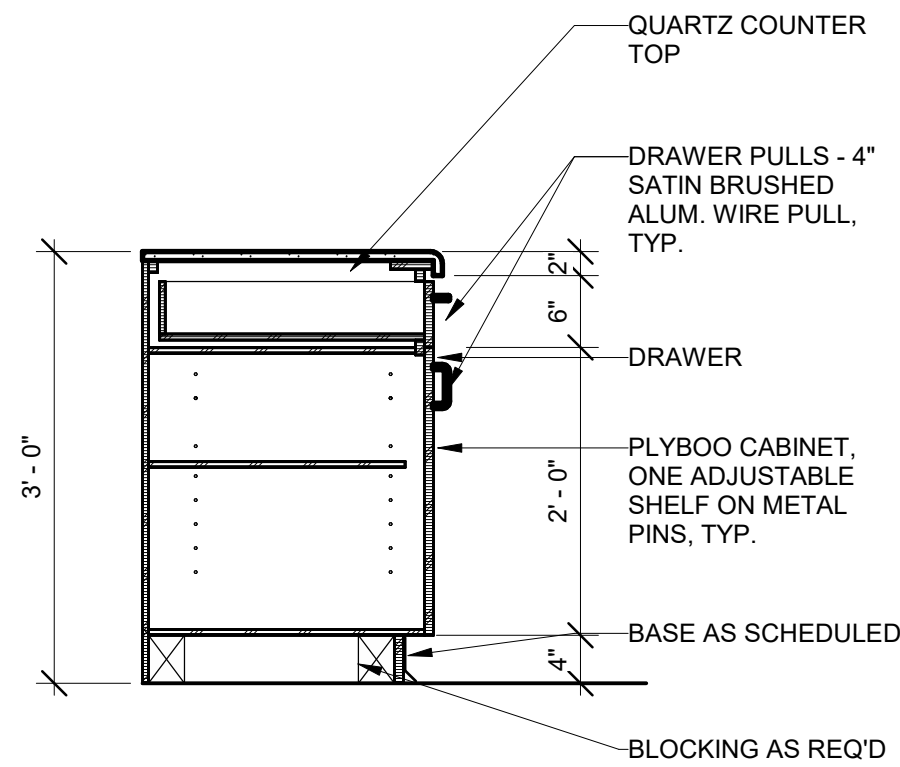
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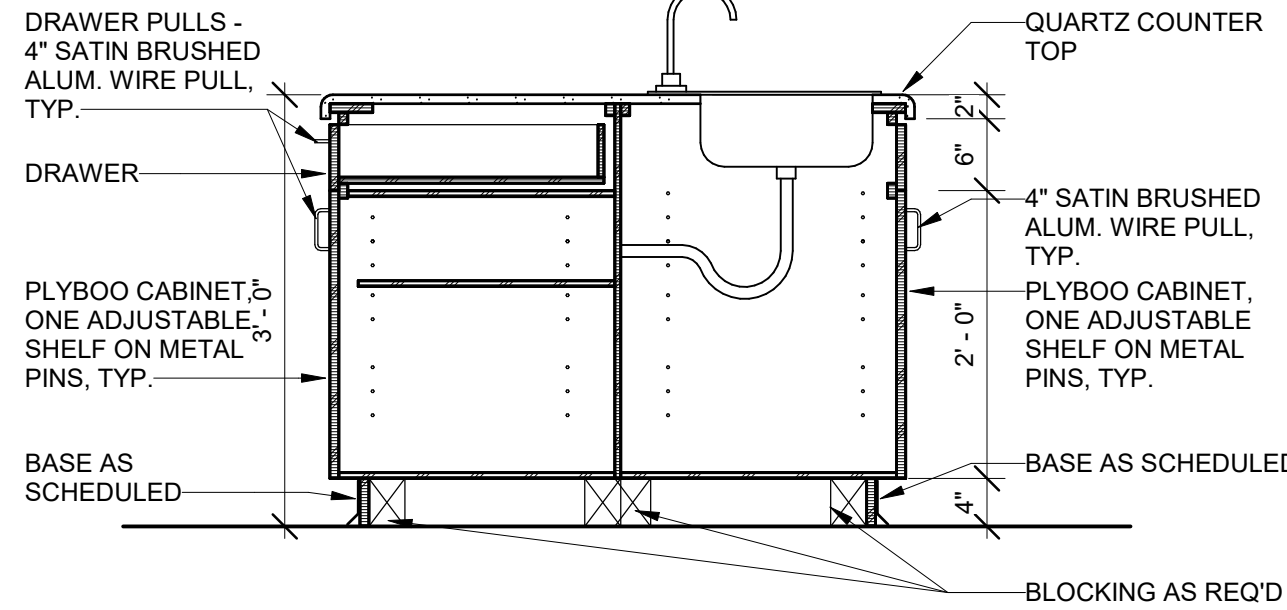
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CASEWORK SECTION @ ISLAND

C1

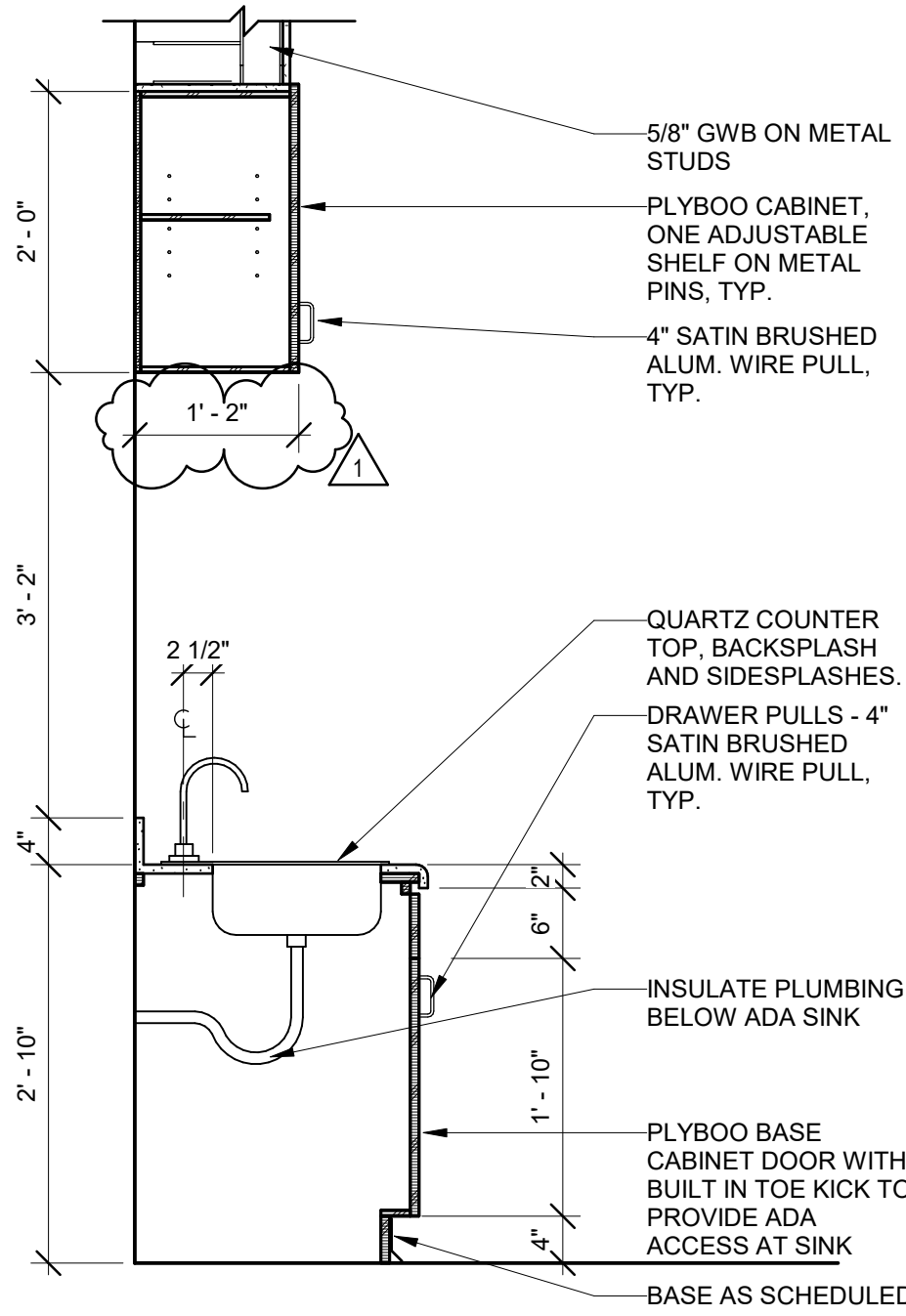
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CASEWORK SECTION @ ISLAND SINK

C2

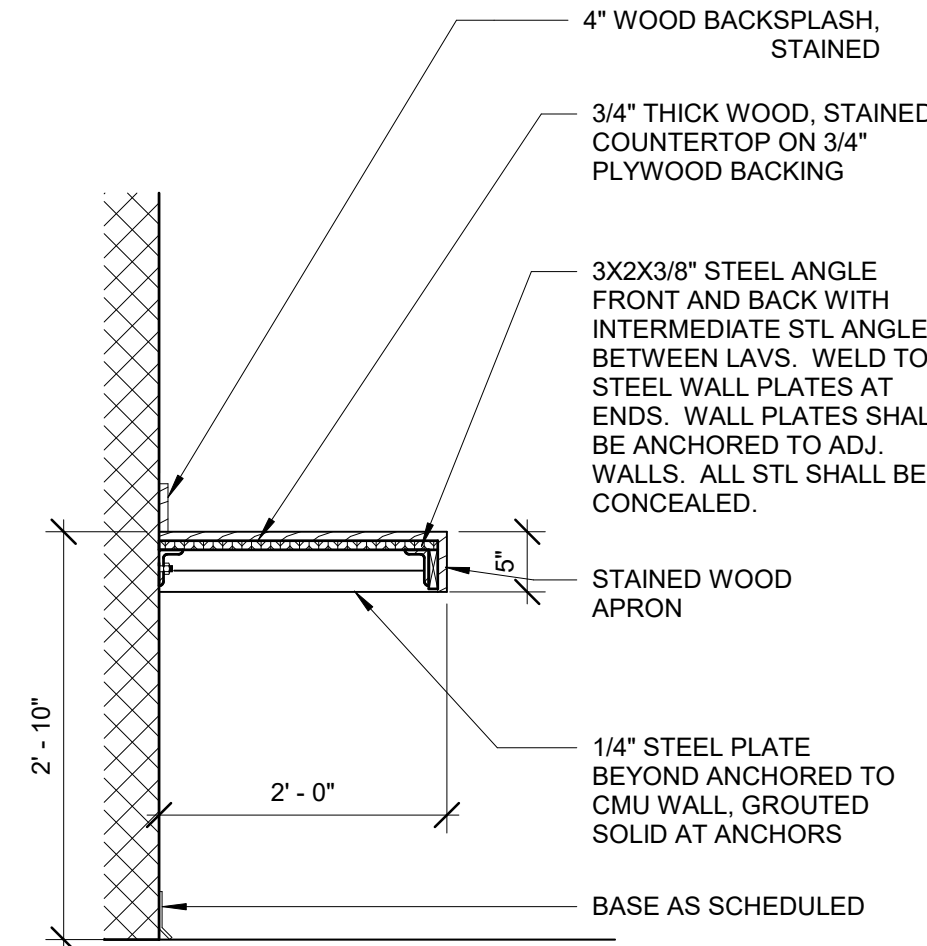
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CASEWORK SECTION @ ADA SINK

A2

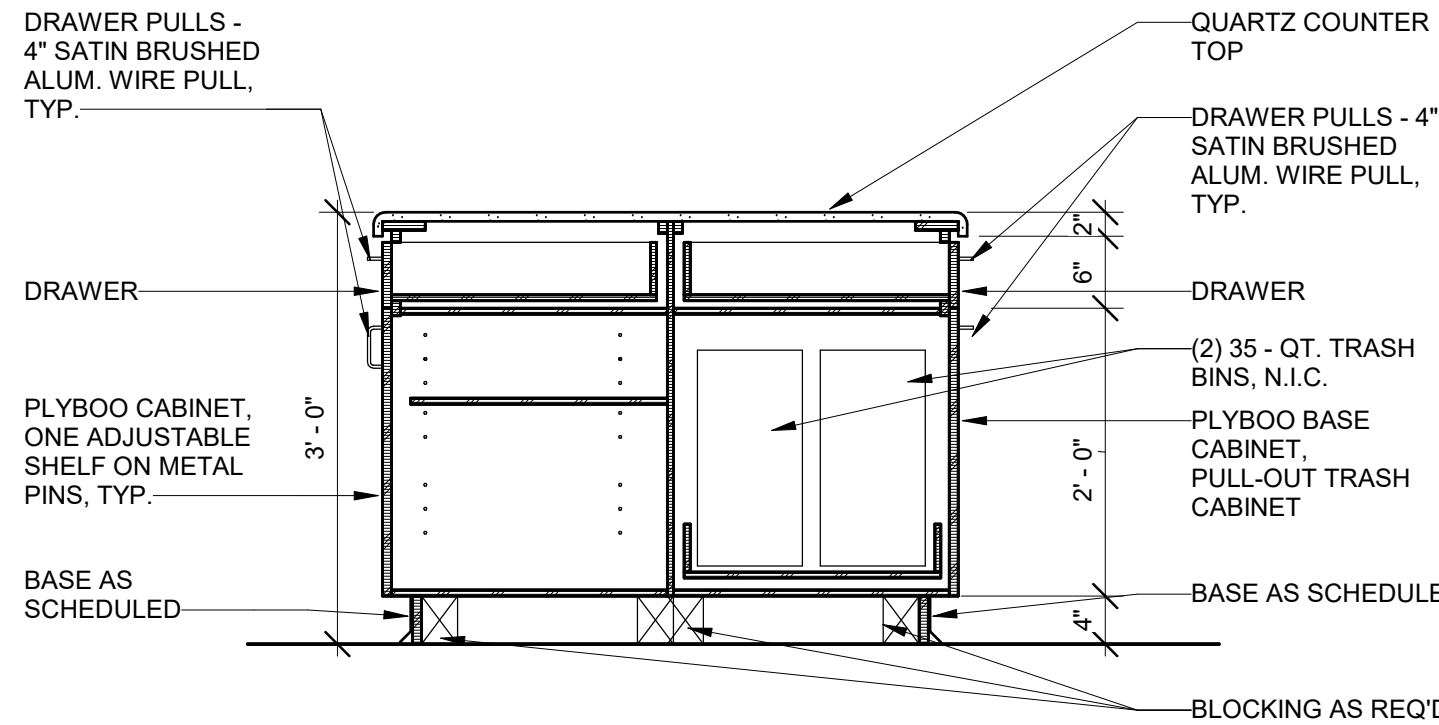
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WORKBENCH

D4

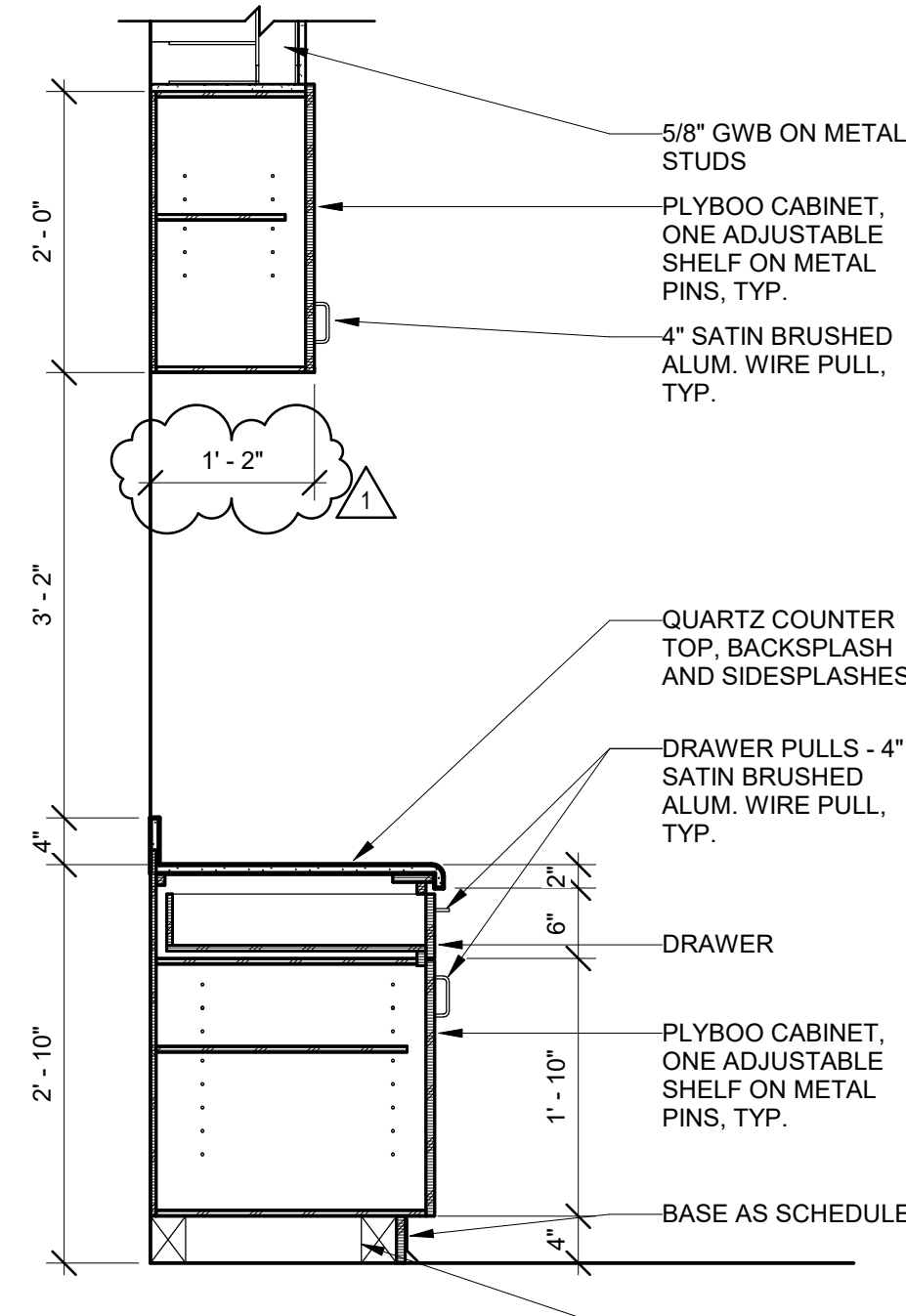
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CASEWORK SECTION @ RECYCLING

C4

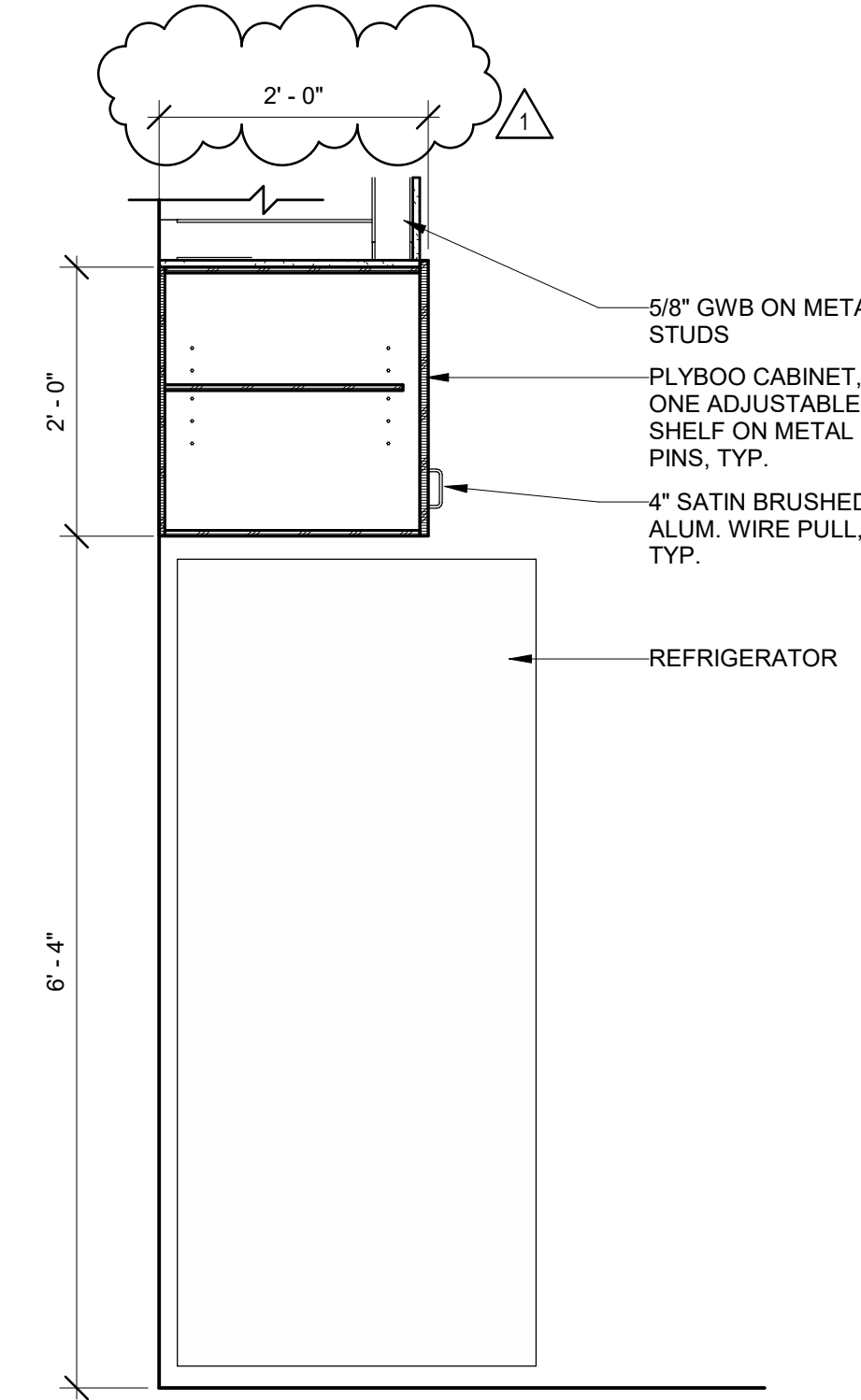
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CASEWORK SECTION @ KITCHEN ADA, TYP.

A4

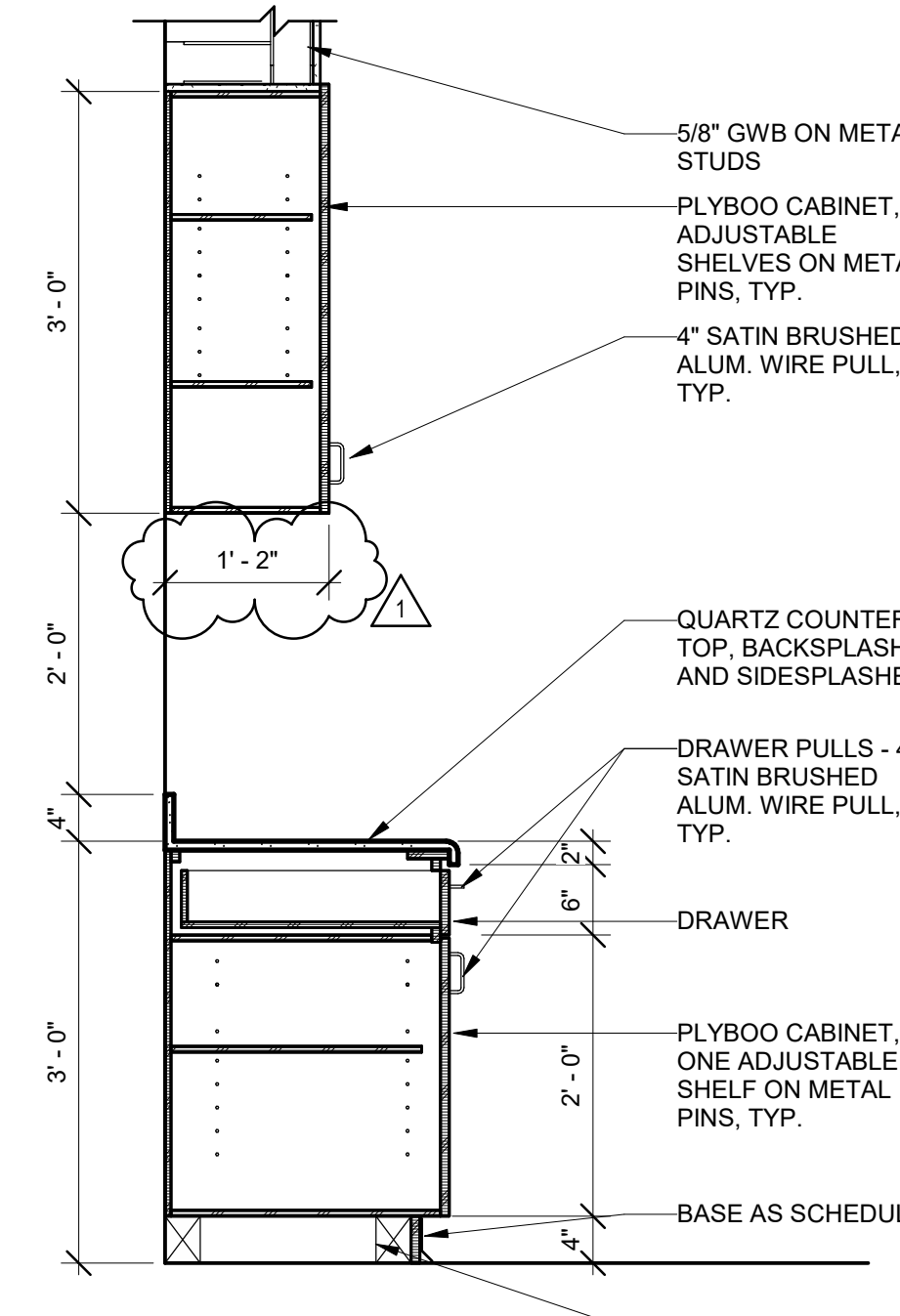
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CASEWORK SECTION @ REFRIGERATOR

C6

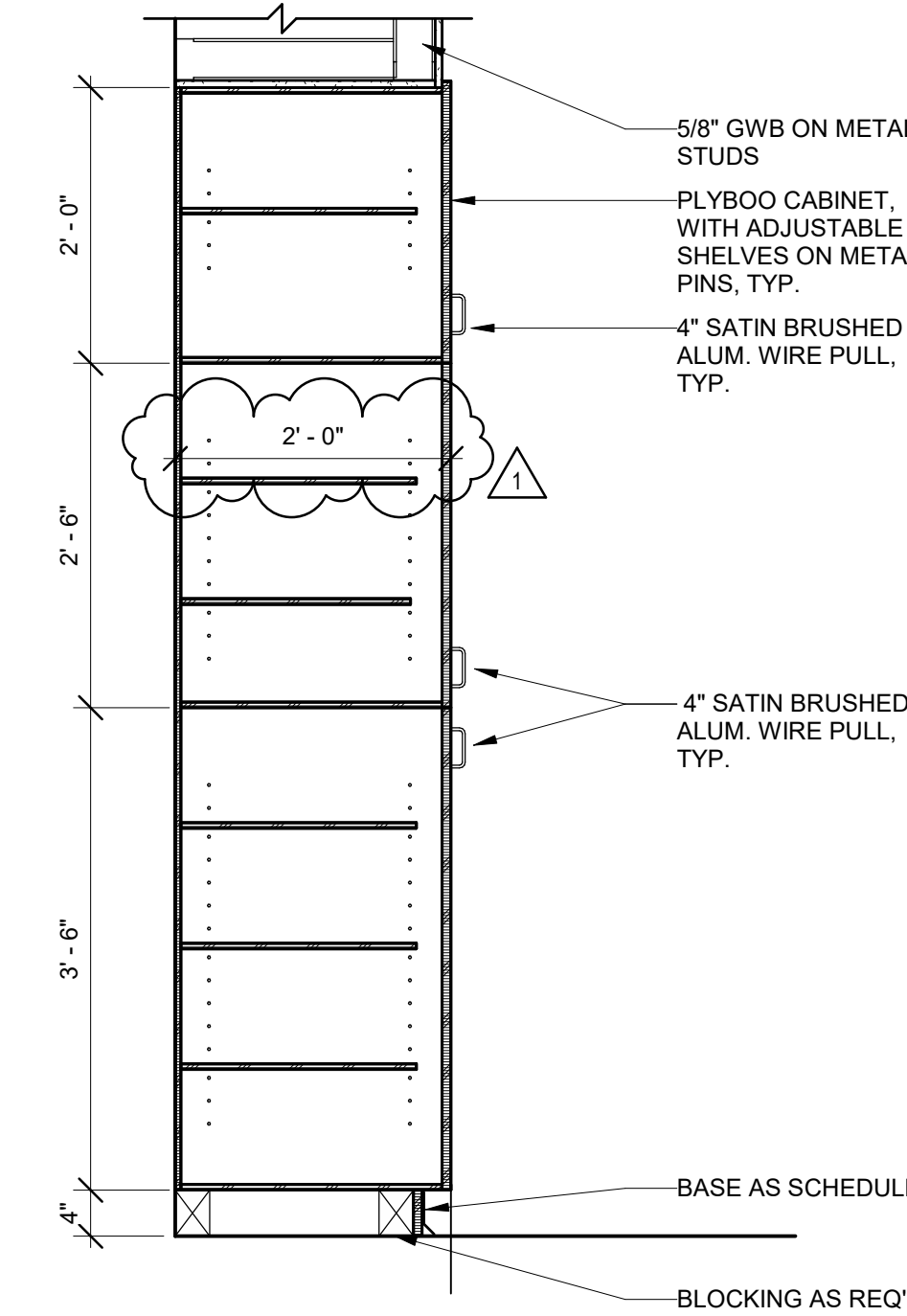
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CASEWORK SECTION @ KITCHEN, TYP.

A6

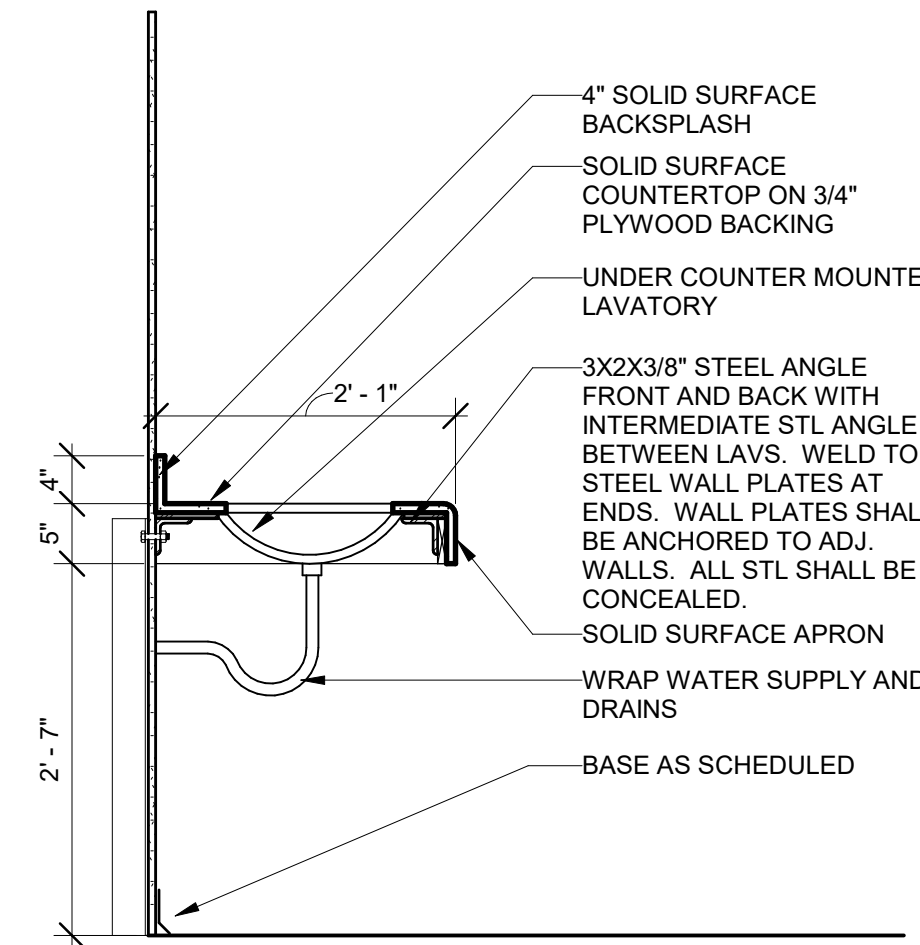
3/4" = 1'-0"



CASEWORK SECTION @ PANTRY

C7

3/4" = 1'-0"



CASEWORK SECTION @ TOILETS

A7

3/4" = 1'-0"



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DATE:	11.21.2022
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CHK'D BY:	BJD

CASEWORK SECTIONS

I-501

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:

ACT ACOUSTICAL CEILING TILE
CPT CARPET TILE
CMU CONCRETE MASONRY UNIT
EXP EXPOSED STRUCTURE
GWB GYPSUM WALL BOARD
HPC HIGH PERFORMANCE COATING
IR IMPACT RESISTANT
PC POLISHED CONCRETE
PT PORCELAIN TILE
PTD PAINTED
RAF RESILIENT ATHLETIC FLOOR
RF RUBBER FLOORING
RT RUBBER TREAD
RB RUBBER BASE
SC SEALED CONCRETE



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FIRE STATION #5
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

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PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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FINISH SCHEDULE

I-601

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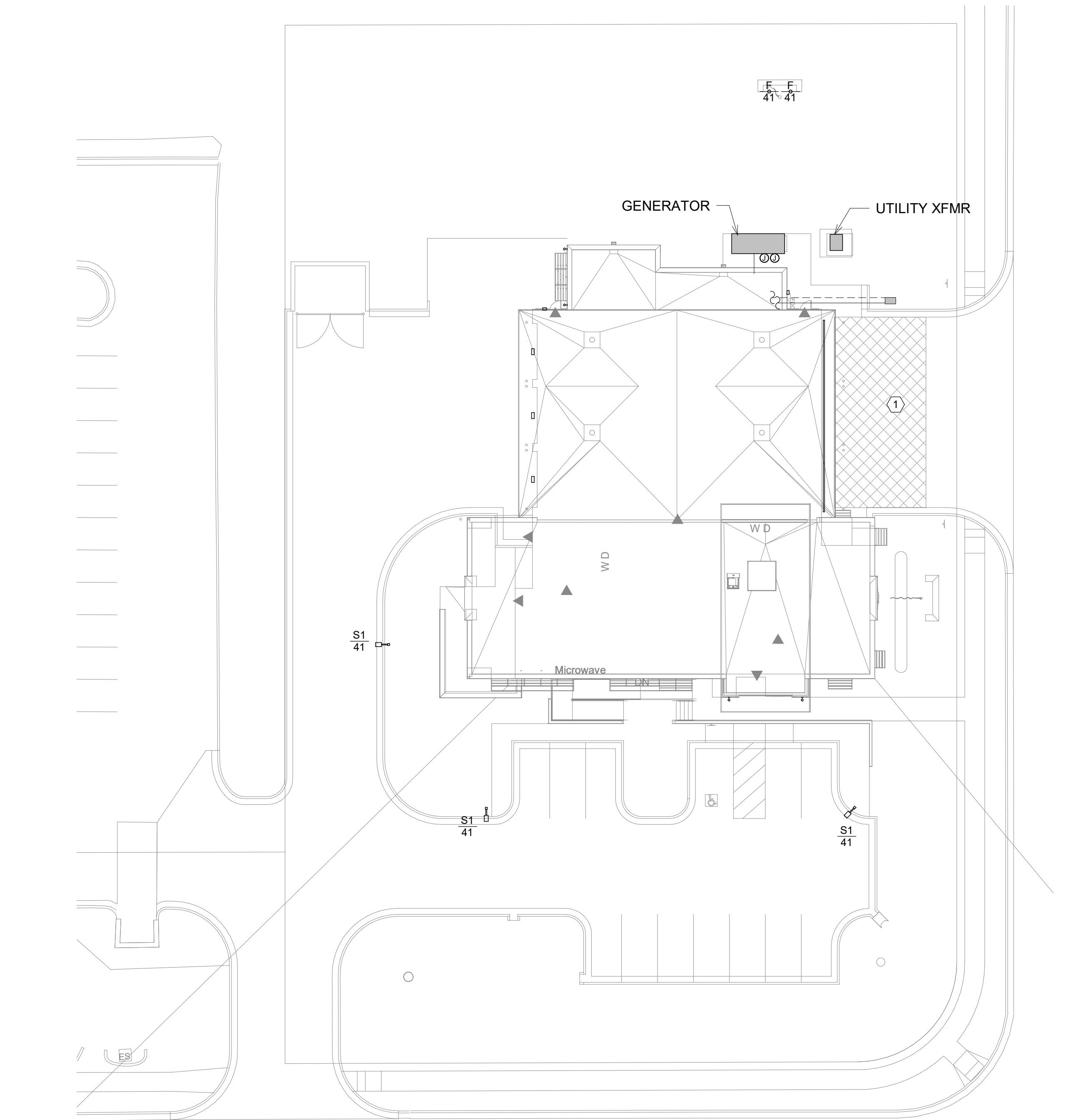
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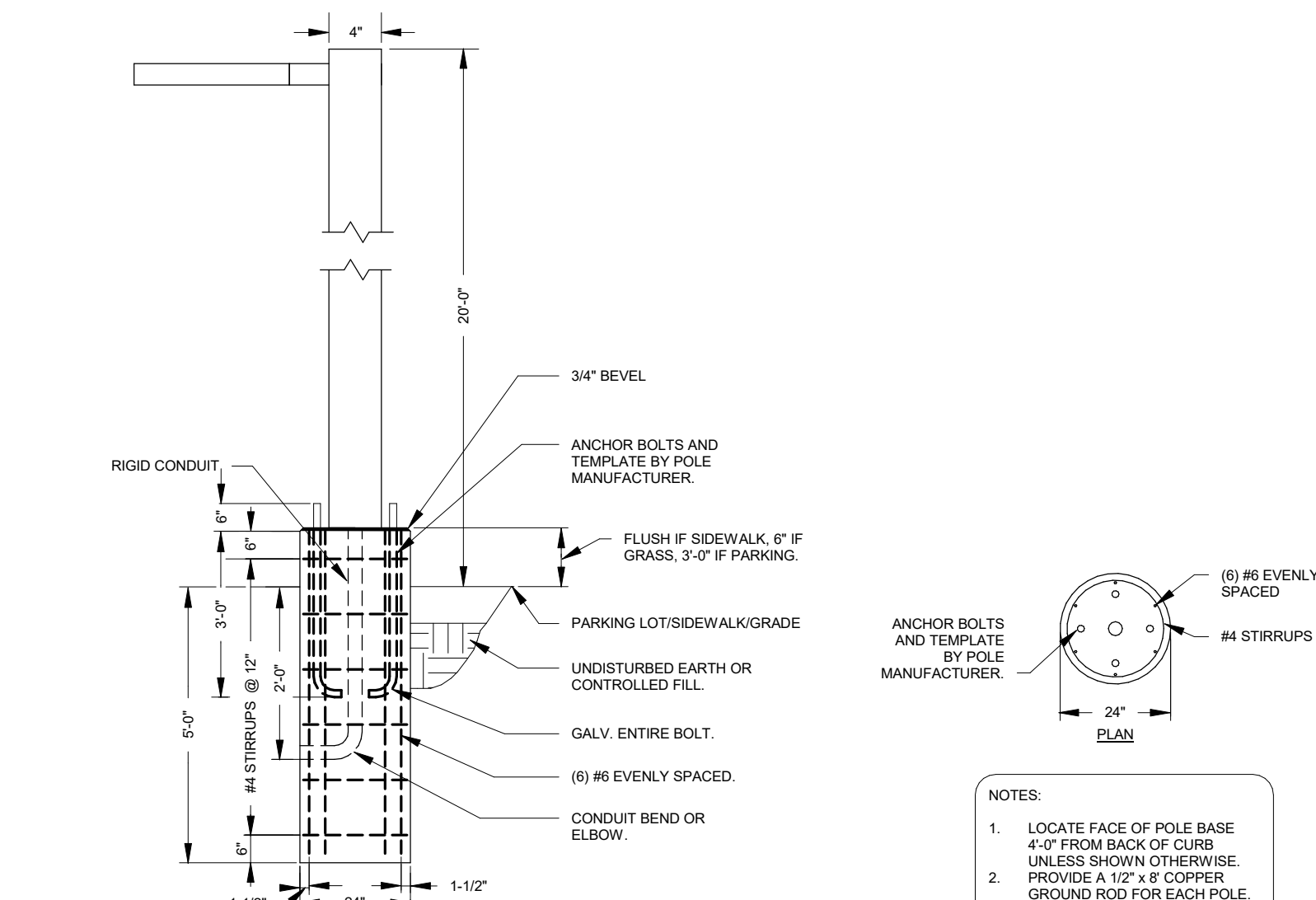
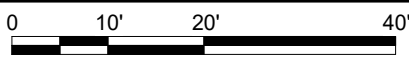
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A



A1 MPE SITE PLAN

1" = 20'-0"



A6 POLE BASE DETAIL

NOT TO SCALE

PLAN NOTES:

1. PROVIDE 1575 SQ. FT. OF CONCRETE WITH SNOW MELT. TUBING SHALL BE INSTALLED 6" BELOW FINISHED FLOOR. COORDINATE SLAB INSULATION WITH ARCHITECT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFO.

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MPE SITE PLAN

ME001

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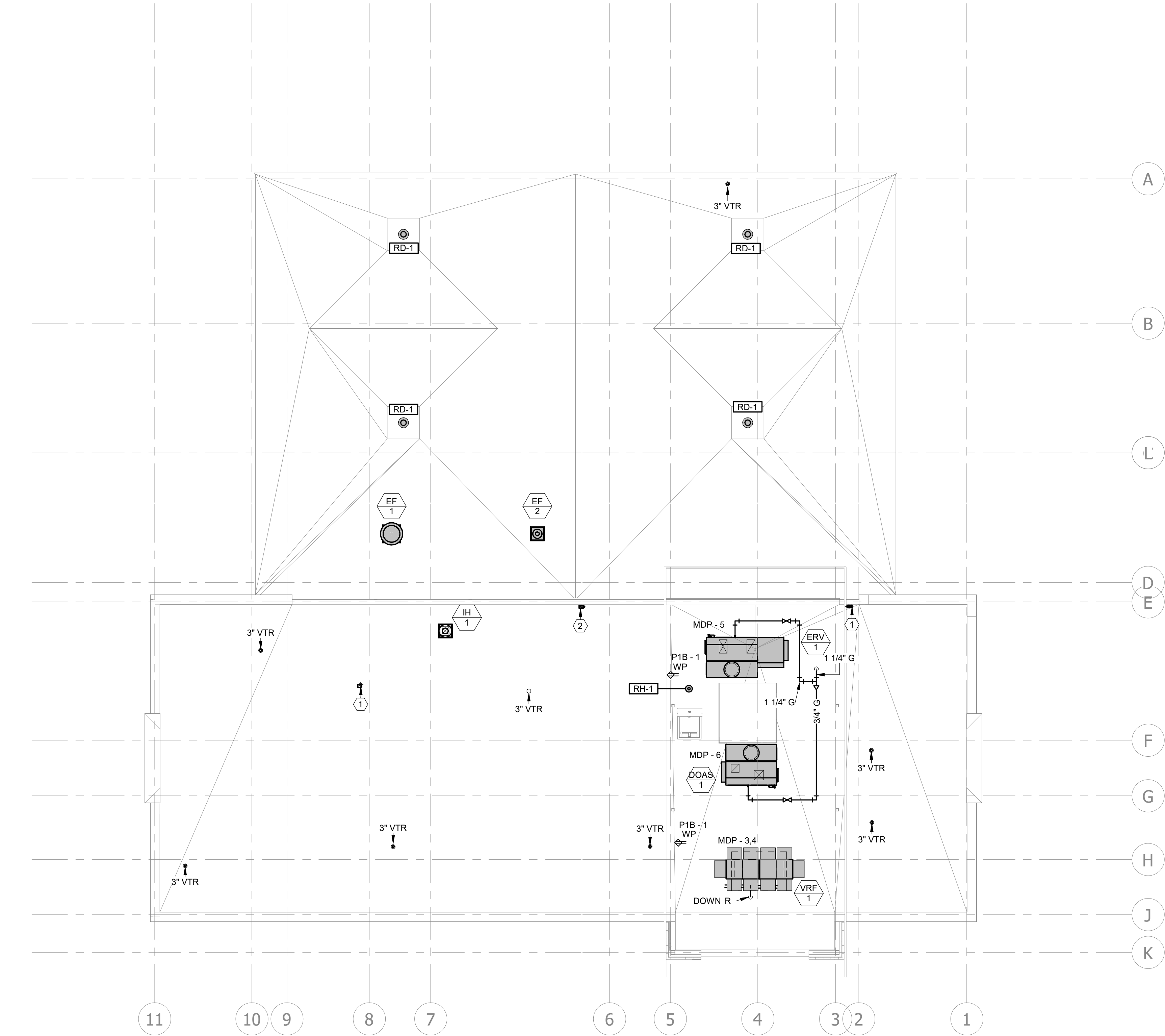
E

D

C

B

A



A1 MPE ROOF PLAN
1/8" = 1'-0"
0 4' 8' 16'

- MECHANICAL PLAN NOTES:**
- 1 4" DRYER DUCT TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
 - 2 4" WATER HEATER VENT/COMBUSTION AIR PIPING TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.

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MPE ROOF PLAN

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E

D

C

B

A

HVAC MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS

CONTROLS (TOP OF DEVICE) 48" AFF

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

A/C	AIR CONDITIONING
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	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
BTU/H	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	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VO	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
WB	WET BULB
WC	WATER COLUMN
WT	WEIGHT

PIPE FITTINGS AND VALVES

- 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

PIPING

- 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

DUCTWORK

- 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

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

HVAC GENERAL NOTES

- 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.
- 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.
- DUCTWORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
- COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOWER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
- BRANCH DUCTWORK TO DIFFUSERS, REGISTERS OR GRILLES SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.
- ALL RUNOUTS TO SUPPLY DIFFUSERS SHALL BE PROVIDED WITH BALANCING DAMPERS. PROVIDE CONCEALED DAMPER OPERATORS WHERE LOCATED ABOVE HARD CEILINGS.
- ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.
- 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.
- COORDINATE THE INSTALLATION OF PIPING AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES.
- THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW EQUIPMENT.
- THE CONTRACTOR SHALL ARRANGE BRANCH PIPING TO VRF UNIT COILS SO THAT IT DOES NOT INTERFERE WITH ACCESS TO THE UNIT OR CONTROLS.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR SUPPORTS, ANCHORS, AND GUIDES. SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- 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.
- 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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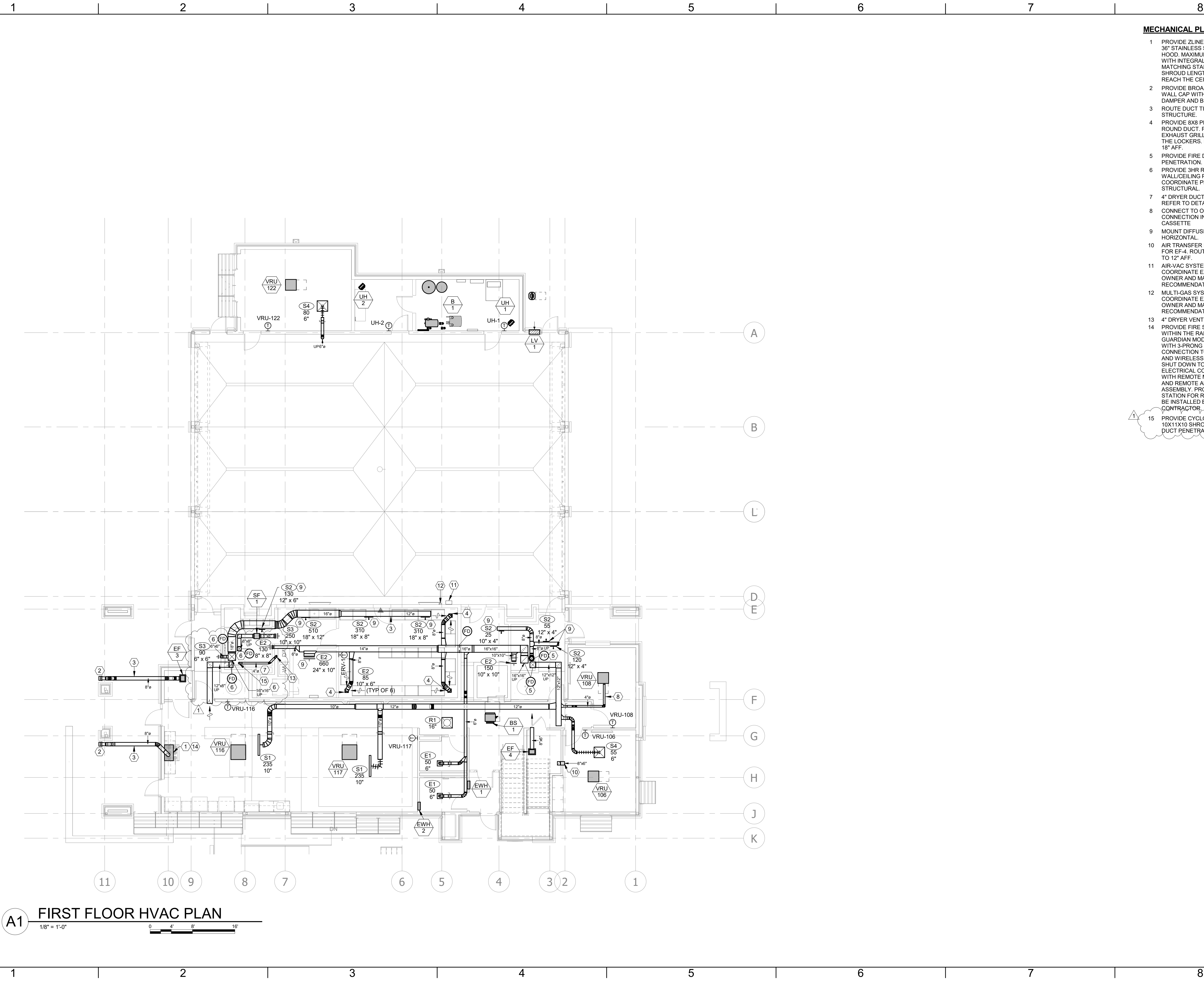
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HVAC SYMBOLS LEGEND

M001

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E
D
C
B
A



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

- 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 MULTIGAS 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 #5300B. 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.

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STATE OF MISSOURI
PUBLIC ENGINEER
NEIL P. BARTLEY
NUMBER
PE-2007023868
11-11-22

NEIL BARTLEY - ENGINEER
MO# PE-2007023868

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**FIRST FLOOR
HVAC PLAN**

M101

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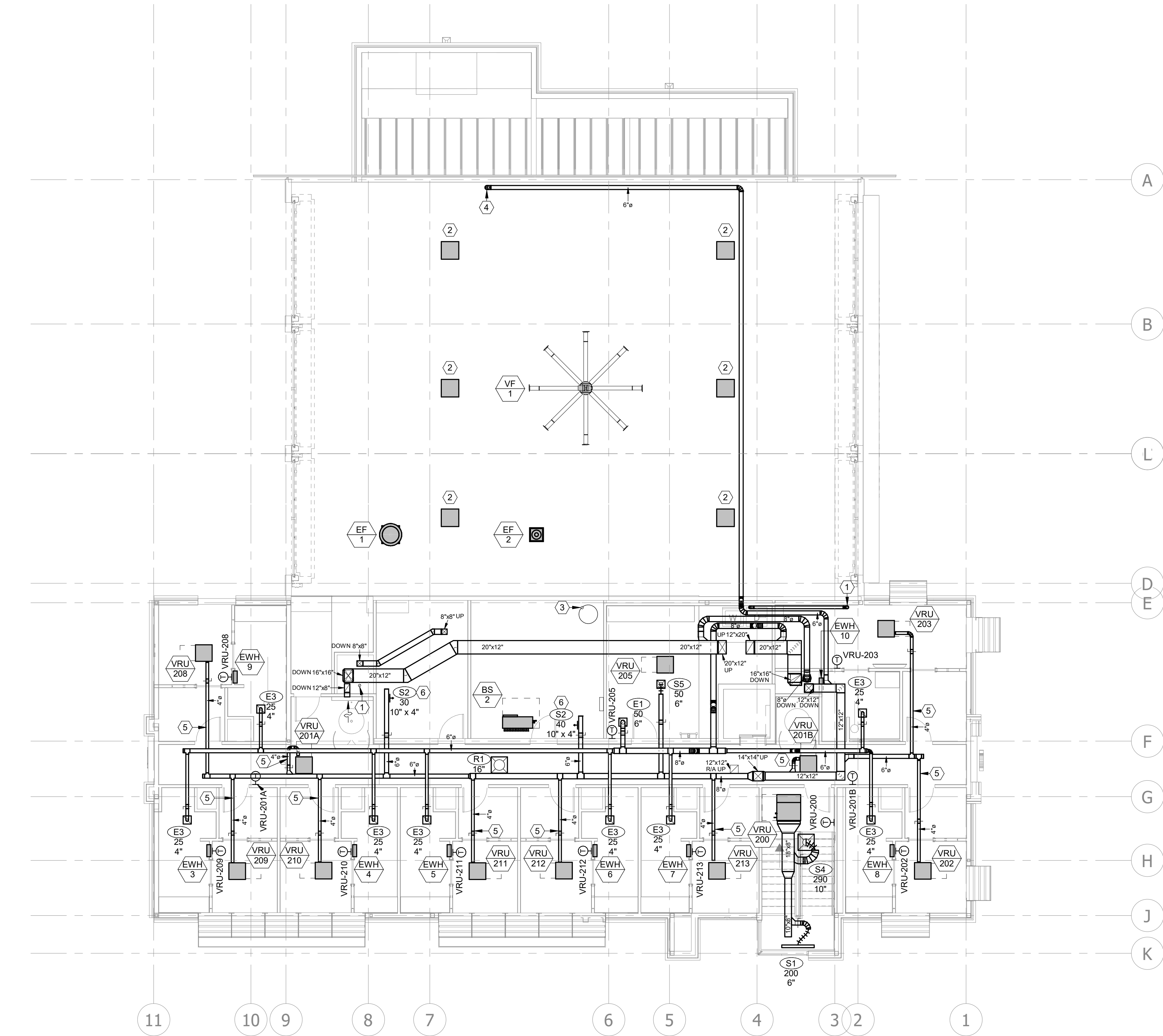
E

D

C

B

A



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

MECHANICAL PLAN NOTES:

- 1 4" DRYER DUCT TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
- 2 PROVIDE AIRVAC 911, OR EQUAL VEHICLE EXHAUST FILTRATION SYSTEM. 3/4HP/120V POWER.
- 3 4" WATER HEATER VENT/COMBUSTION AIR PIPING TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
- 4 6" DUCT DOWN. REFER TO SHEET M101 FOR CONTINUATION.
- 5 CONNECT TO OUTSIDE AIR DUCT CONNECTION INLET ON CEILING CASSETTE
- 6 MOUNT DIFFUSER AT 30" FROM HORIZONTAL.

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SECOND FLOOR
HVAC PLAN

M102

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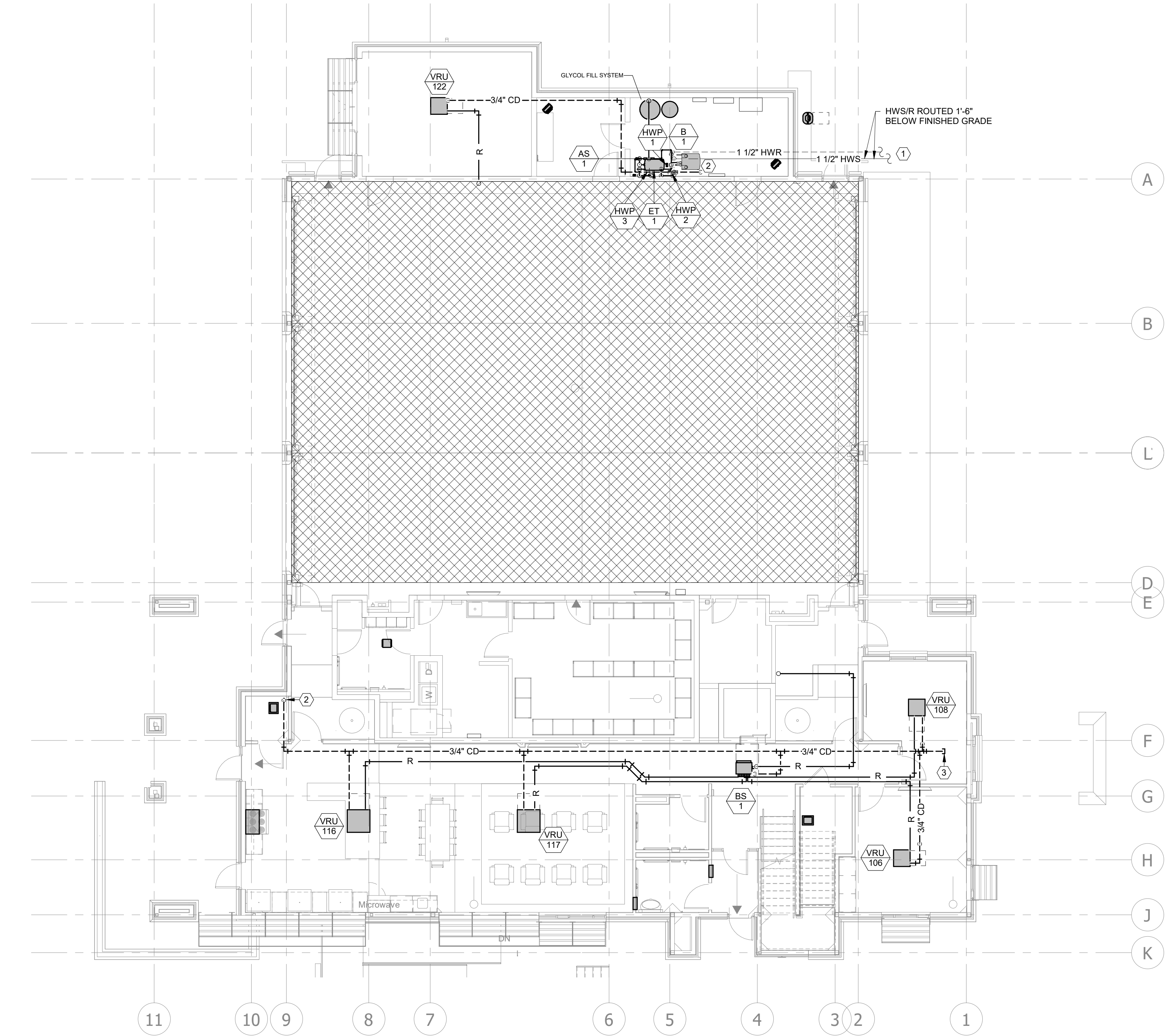
E

D

C

B

A



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



MECHANICAL PLAN NOTES:

- 1 SNOW MELT PIPING TO MANIFOLD BOX. REFER TO MEP SITE PLAN FOR CONTINUATION.
- 2 ROUTE CONDENSATE TO JANITOR SINK/FLOOR DRAIN.
- 3 PROVIDE END OF LINE CONDENSATE CLEAN OUT.


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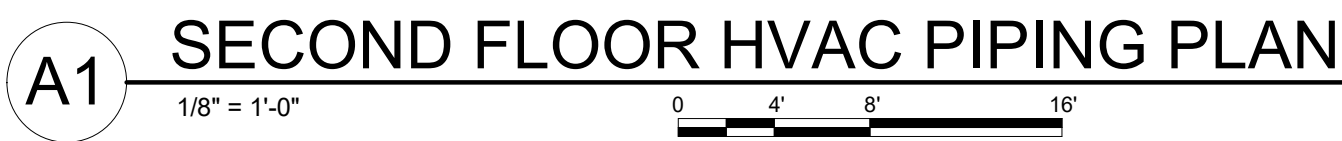
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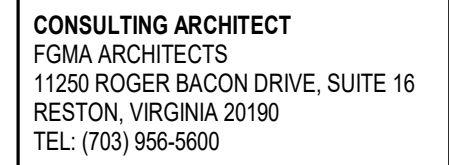
**FIRST FLOOR
HVAC PIPING
PLAN**

M201

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



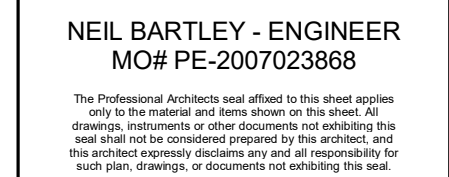
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SECOND FLOOR HVAC PIPING PLAN

M202

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E

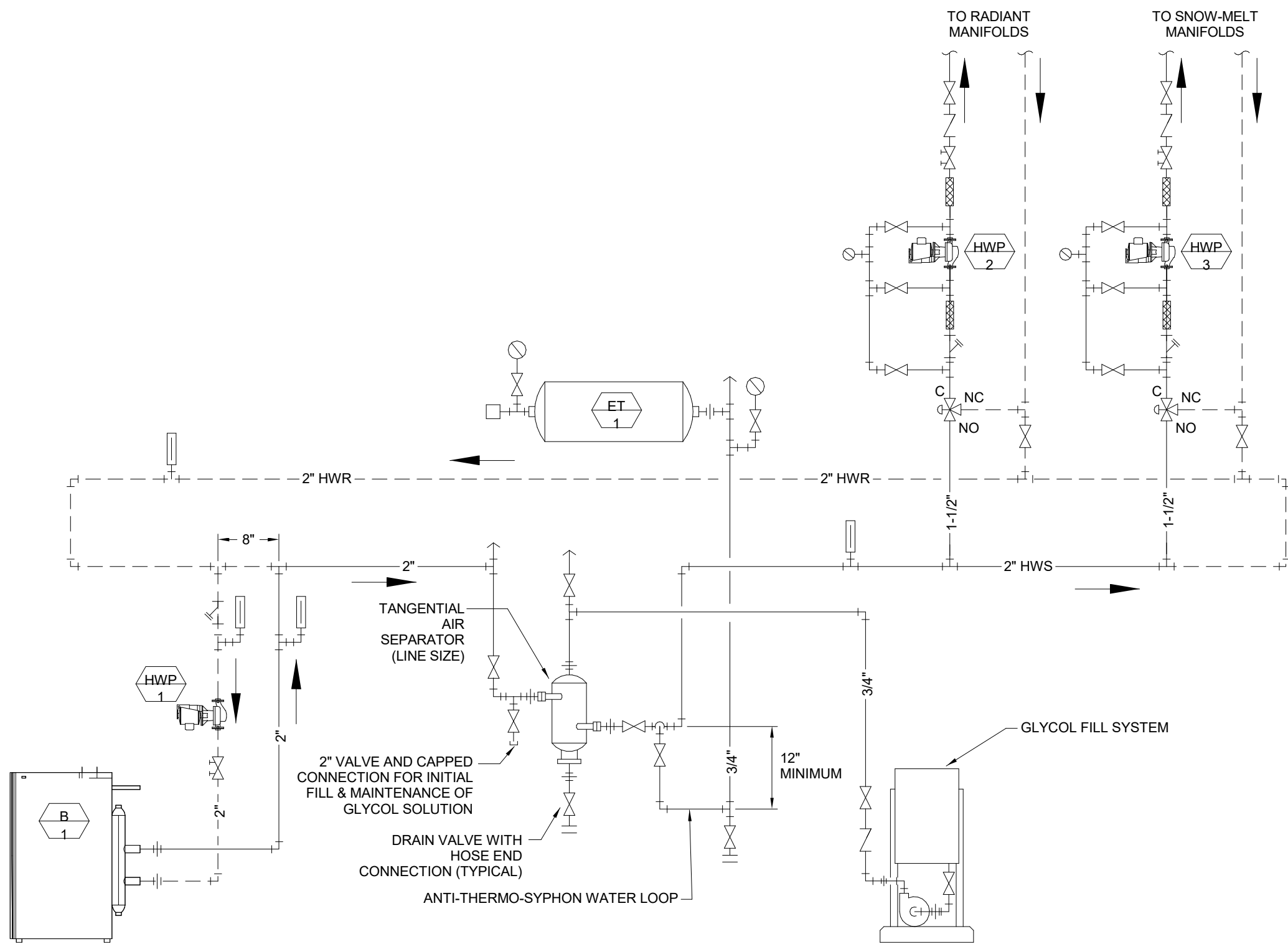
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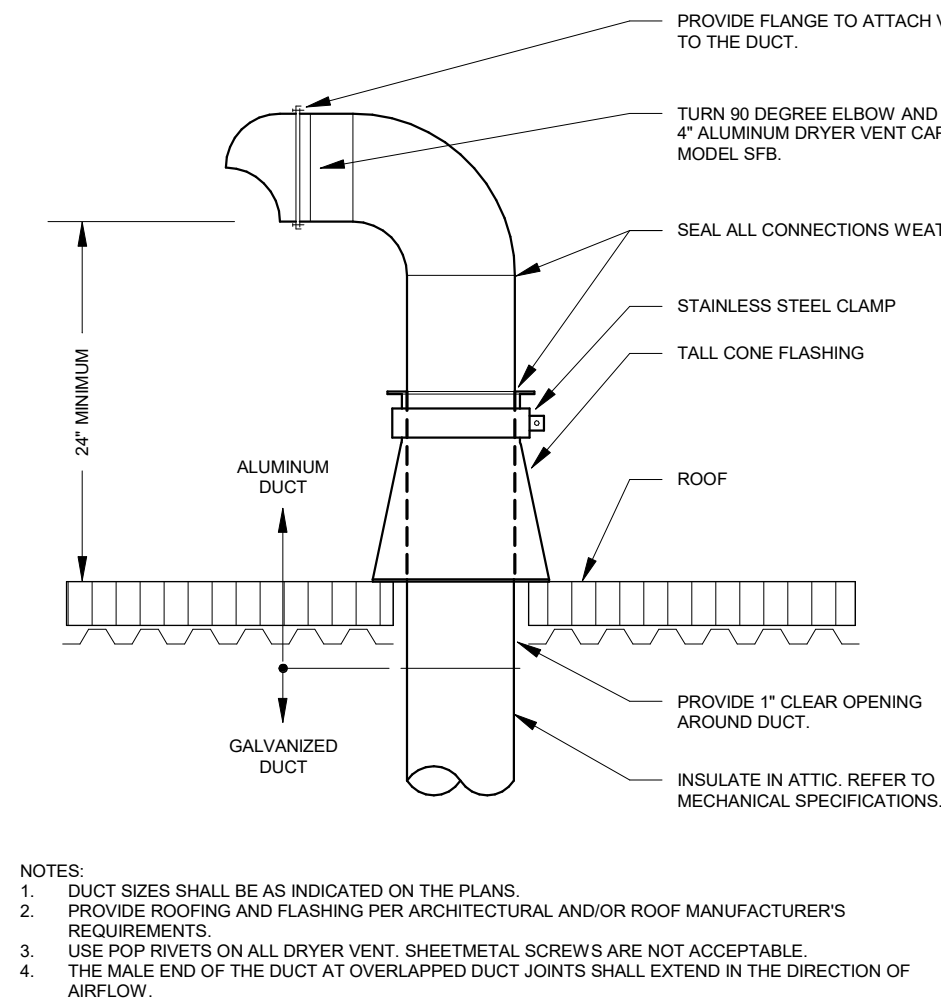
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A

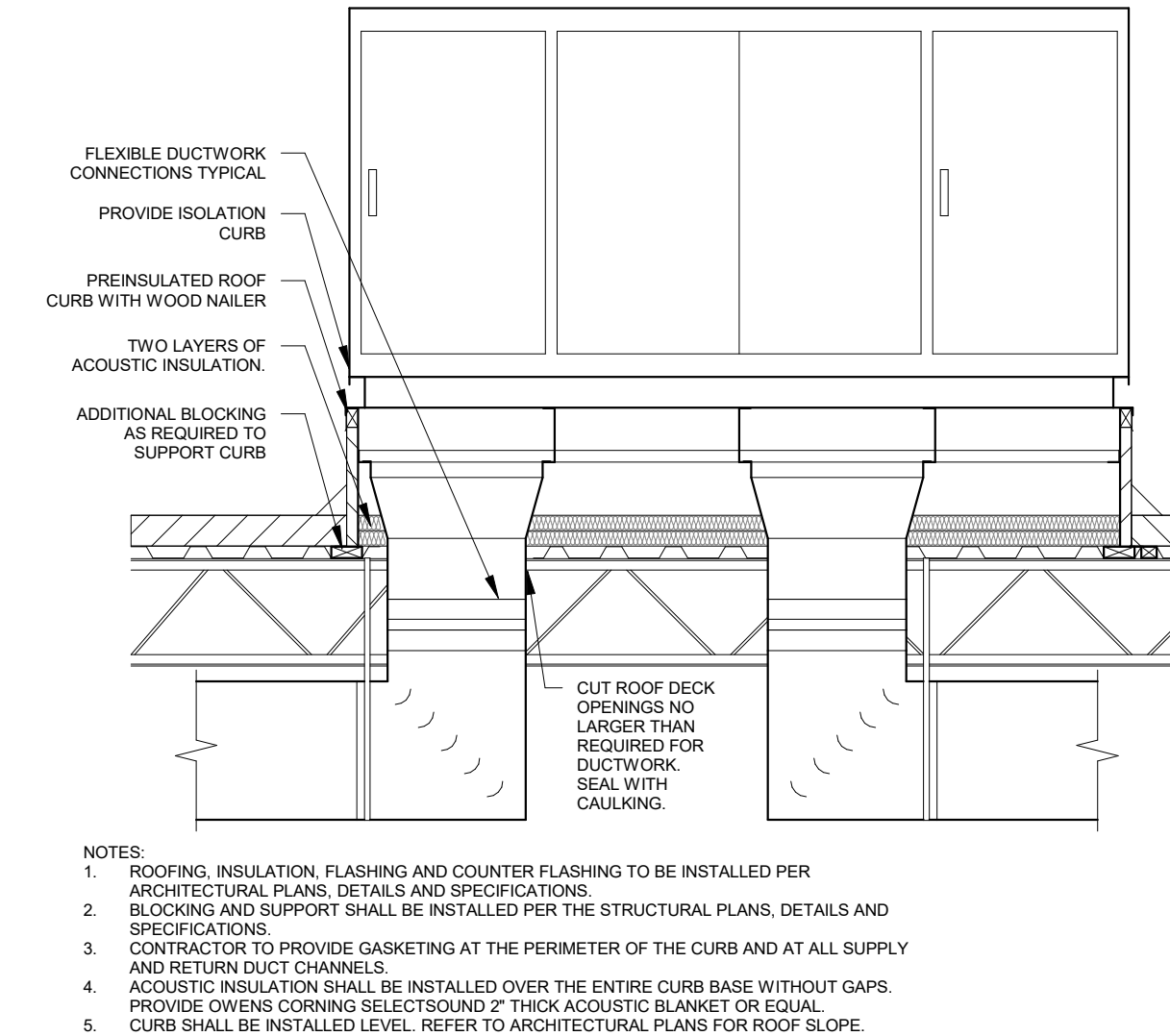
A2 Radiant Piping Schematic
NOT TO SCALE



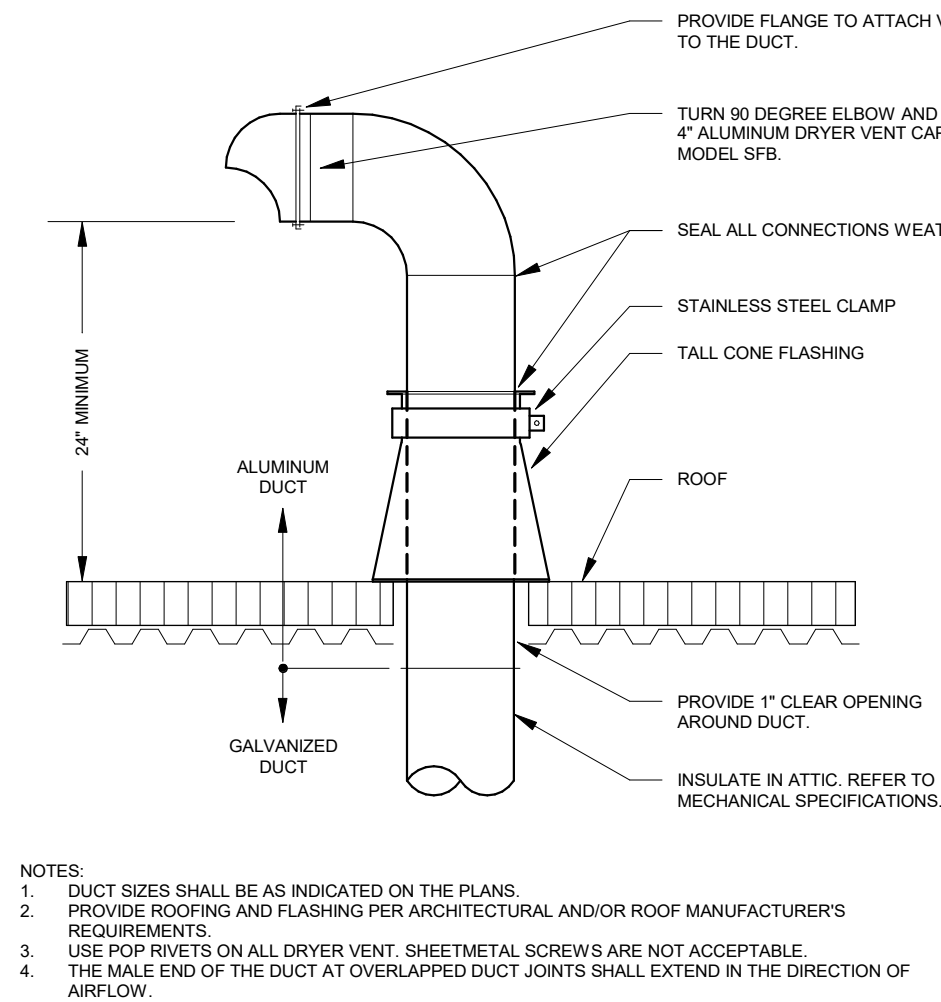
A5 VENT ROOF CLOTHES DRYER
NOT TO SCALE



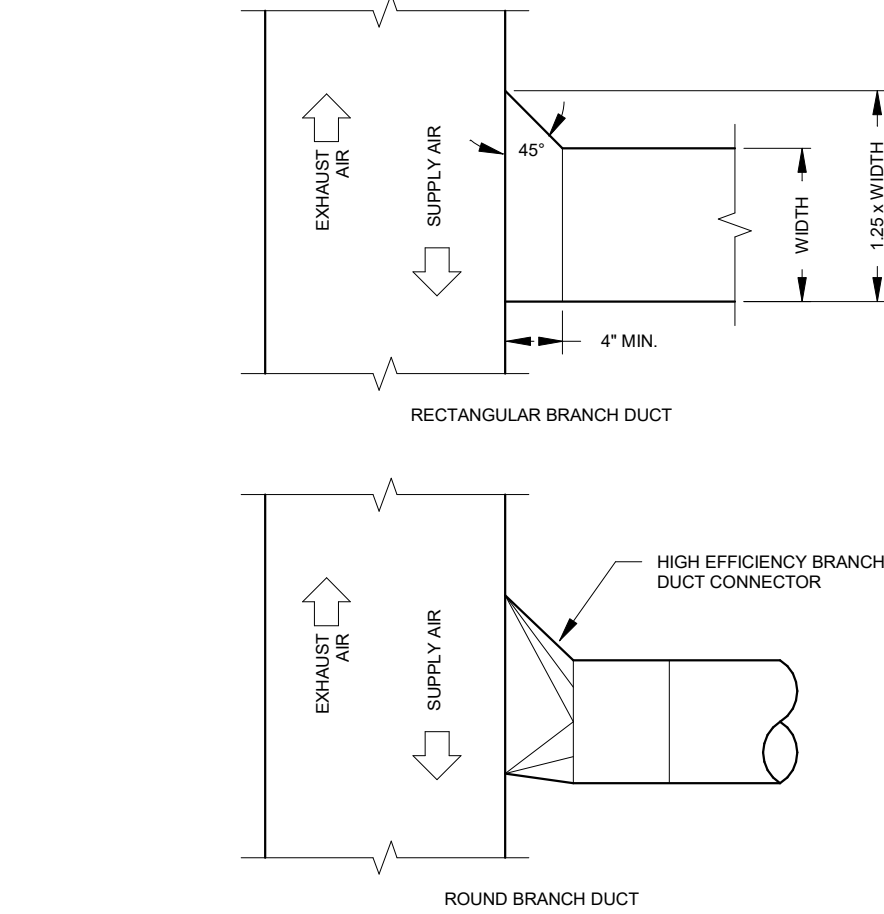
D5 FAN EXHAUST ROOF
NOT TO SCALE



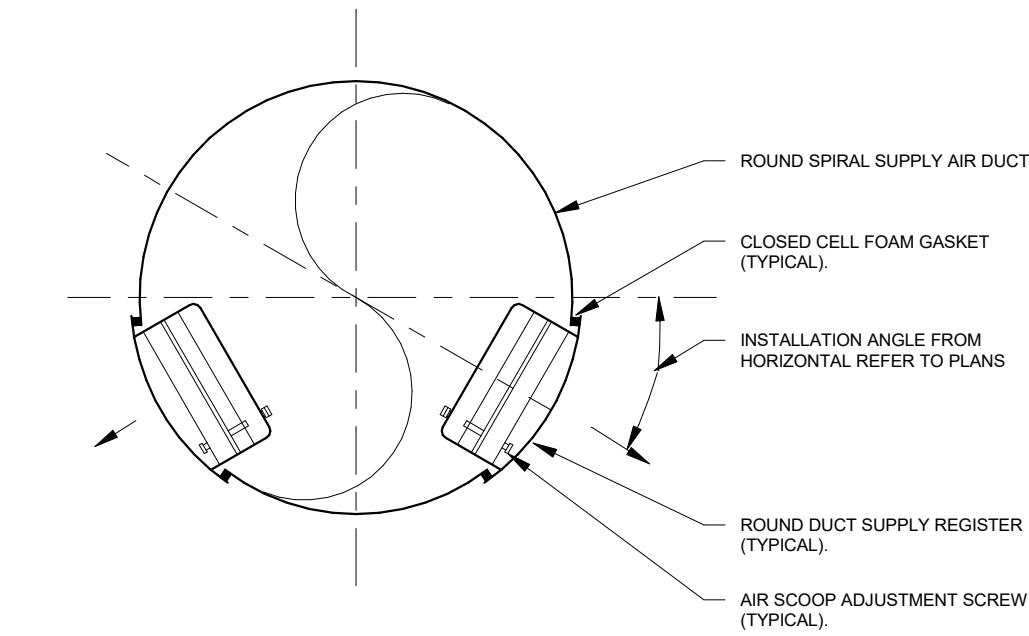
B5 ROOF CURB RTU
NOT TO SCALE



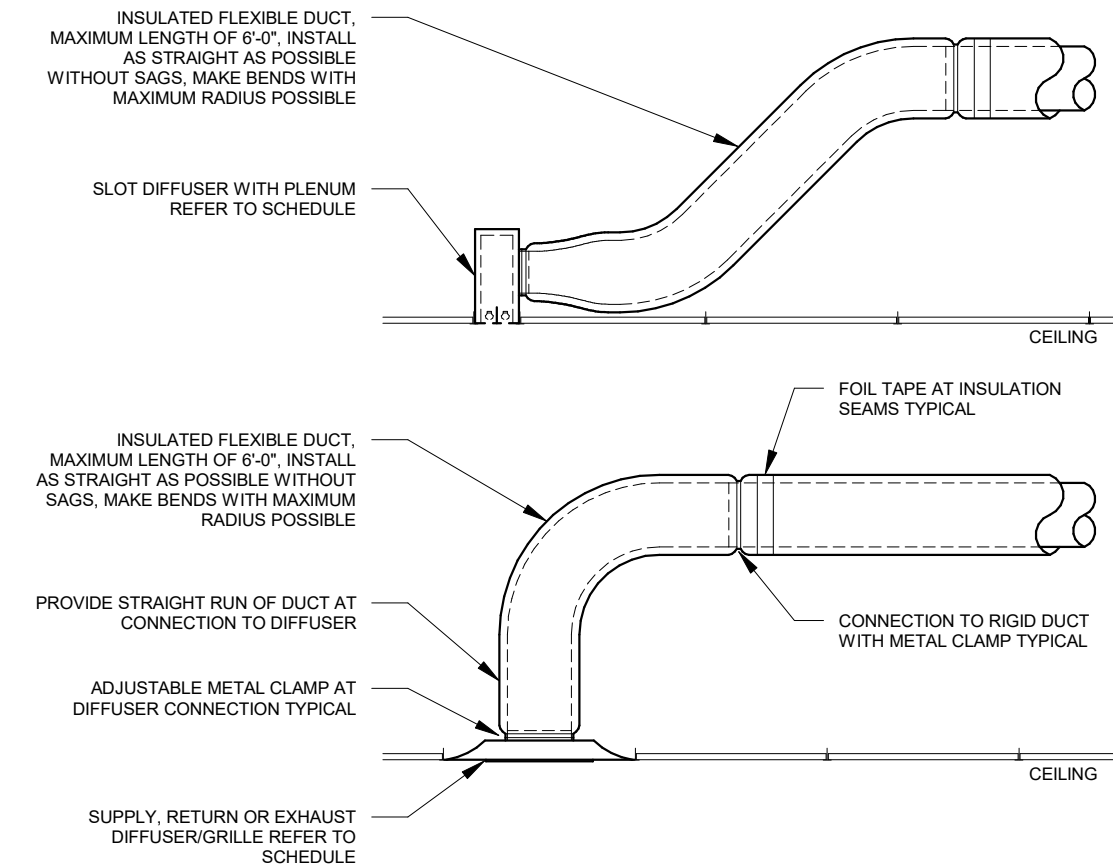
A7 DUCT BRANCH CONNECTION
NOT TO SCALE



B7 DIFFUSER SUPPLY SPIRAL GRILLE
NOT TO SCALE



D7 DIFFUSER CONNECTION
NOT TO SCALE



- 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, UPBLAST 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.

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

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**MECHANICAL
DETAILS**

M301

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ROOFTOP UNIT SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	MIN O/A CFM	SUPPLY FAN							RETURN FAN							DX COOLING				HOT GAS REHEAT		GAS HEAT		ELECTRICAL DATA				WEIGHT (LBS)	NOTES				
				CFM	TYPE	DRIVE	ESP	TSP	BHP	HP	RPM	CFM	TYPE	DRIVE	ESP	TSP	BHP	HP	RPM	ENTERING AIR TEMP		LEAVING AIR TEMP		TOTAL CAPACITY (BTU/H)	SENSIBLE CAPACITY (BTU/H)	LEAVING AIR TEMP		INPUT (Mbh)	OUTPUT (Mbh)			VOLTS	PHASE	MCA	MOCP (A)
																				DB	WB	DB	WB			DB	WB								
DOAS 1	RUPP AIR	CASRTU1-I.75-13-6T	1025	1025	13P-1	DIRECT	1.00	1.25	0.230	1	1100	0	-	-	0.00	0.00	0.00	0	0	87	79	57	57	83.9	33.6	70	62	104.3	84.5	208	1	30.7	35	1183	1,2,3,4,5,6
ERV 1	RUPP AIR	RARTU1-I.200-15-5T	1540	1540	15P-1	DIRECT	2.00	2.50	1.140	2	1400	1925	15P-1	DIRECT	1.00	1.50	1.14	2	0	80	66	53	53	59.9	43.9	75	61	196.2	156.9	208	3	38.1	40	1649	1,2,3,4,5

NOTES:

1. ESP DOES NOT INCLUDE DIRTY FILTER PRESSURE DROP. ADD 0.5" TO INTERNAL PRESSURE DROP FOR DIRTY FILTERS.

2. PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED DISCONNECT FOR SINGLE-POINT ELECTRICAL CONNECTION.

3. PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED VFD.

4. PROVIDE INSULATED ROOF CURB, HEIGHT AS REQUIRED TO PROVIDE 18" CLEARANCE ABOVE FINISHED ROOF. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPE.

5. PROVIDE BURNER WITH MODULATING GAS HEAT.

6. PROVIDE UNIT WITH BAROMETRIC RELIEF DAMPER.

GENERAL NOTES (APPLY TO ALL ABOVE):

A. PROVIDE MINIMUM EFFICIENCY OF MERV 6 FILTERS DURING CONSTRUCTION AND CHANGE MONTHLY AFTER UNIT START-UP. FINAL FILTER CHANGE AT OWNER OCCUPANCY SHALL BE MERV 8.

B. ELECTRICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS IN THE MAIN RETURN DUCT AND INTERLOCK WITH UNIT PER CODE.

C. FUEL SOURCE FOR GAS HEATER IS NATURAL GAS.

D. PROVIDE A CONDENSATE DRAIN WITH A TRAP DEPTH 2" DEEPER THAN THE EXPECTED STATIC PRESSURE AT THE DRAIN LOCATION IN THE UNIT AND EXTEND TO NEAREST ROOF DRAIN.

E. COOLING CAPACITY SHALL BE BASED ON 105 F AMBIENT TEMPERATURE.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	FACE SIZE	SERVICE	MAX NC	MAX PRESSURE DROP (IN WG)	DAMPER	NOTES
E1	TITUS	355FL	12x12	EXHAUST	30	0.10	NO	
E2	TITUS	355RL	SEE PLAN	EXHAUST	30	0.10	YES	
E3	TITUS	355FL	12x12	EXHAUST	30	0.10	YES	
R1	TITUS	OMNI	24x24	RETURN	30	0.10	NO	
S1	TITUS	ML-39	48"x4"	SUPPLY	30	0.10	NO	1,2
S2	TITUS	S300FL	SEE PLAN	SUPPLY	30	0.10	YES	
S3	TITUS	300RL	SEE PLAN	SUPPLY	30	0.10	NO	
S4	TITUS	OMNI	24x24	SUPPLY	30	0.10	NO	
S5	TITUS	OMNI	12x12	SUPPLY	30	0.10	NO	
NOTES: 1. PROVIDE 2 - 1" SLOTS AND MANUFACTURER'S 48" INSULATED PLENUM WITH 10" INLET. CONTRACTOR SHALL CONSTRUCT A PLENUM EXTENSION AS REQUIRED FOR THE PLENUM TO CLEAR THE CEILING STRUCTURE. EACH DIFFUSER GROUPING SHALL CONSIST OF (2) 48" ACTIVE FACE GRILLES, AND (1) 48" BLANK SECTION. PERFORMANCE DATA ON PLAN IS LISTED PER 48" SECTION. 2. PROVIDE DIFFUSER WITH BOARDER TYPE 15, FLUSH CONCEALED BOARDER. COLOR SHALL BE SELECTED BY ARCHITECT.								
GENERAL NOTES (APPLY TO ALL ABOVE): A. PROVIDE MOUNTING FRAME TO MATCH CEILING TYPE. VERIFY WITH ARCHITECT'S PLANS PRIOR TO ORDERING. B. REFER TO DIFFUSER TAGS ON PLANS FOR NECK SIZE AND AIRFLOW. C. UNLESS NOTED OTHERWISE, COLOR SHALL BE STANDARD WHITE. D. FOUR-WAY THROW PATTERN FOR SQUARE DIFFUSERS UNLESS NOTED OTHERWISE. E. MAXIMUM NC OF 30 FOR ALL GRILLES, REGISTERS, AND DIFFUSERS. F. MAXIMUM PRESSURE DROP OF 0.1 IN-WG FOR ALL GRILLES, REGISTERS, AND DIFFUSERS.								

FAN SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	CFM	STATIC PRESSURE (IN WG)	DRIVE	BHP	HP	VOLTS	PHASE	NOTES
EF 1	LOREN COOK	ACED	2700	0.20	DIRECT	0.47	0.75	120	1	2,3,4,5
EF 2	LOREN COOK	ACED	200	0.20	DIRECT	0.00	0.05	120	1	2,3,4,5
EF 3	LOREN COOK	GC-422	50	0.10	DIRECT	0.03	0.03	120	1	2,3,6
EF 4	LOREN COOK	GC-422	275	0.20	DIRECT	0.00	0.00	120	1	2,3,6
SF 1	LOREN COOK	SON-D	250	0.00	DIRECT	0.00	0.00	120	1	2,3
VF 1	SKY BLADE	FN1M-1443	0	0.00	DIRECT	1.50	1.35	208	3	1,2
NOTES: 1. PROVIDE 14FT. DIA. 6-BLADE HVLS FAN AND MANUFACTURER'S SINGLE YOKE CONTROLLER. 2. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION. 3. PROVIDE WITH FACTORY INSTALLED AND WIRED DISCONNECT AND SPEED CONTROLLER. 4. PROVIDE TALL ROOF CURB. HEIGHT AS REQUIRED TO PROVIDE 18" CLEARANCE ABOVE FINISHED FLOOR. 5. PROVIDE WITH BACKDRAFT DAMPER, AND INTEGRAL BIRD SCREEN. 6. PROVIDE WITH MANUFACTURER'S ALUMINUM GRILLE.										

ELECTRIC UNIT HEATER SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	SUPPLY CFM	ELEMENT KW	ELECTRICAL DATA				NOTES
					VOLTS	PHASE	FLA	MOCP (A)	
EW1	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW2	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW3	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW4	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW5	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW6	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW7	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW8	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW9	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW10	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
UH 1	QMARK	MUH0381-PRO	350	3.0	208	1	14.5	20	1,3,4
UH 2	QMARK	MUH0381-PRO	350	3.0	208	1	14.5	20	1,3,4
NOTES: 1. PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED DISCONNECT FOR A SINGLE-POINT ELECTRICAL CONNECTION. 2. PROVIDE A UNIT-MOUNTED, FACTORY WIRED THERMOSTAT. 3. PROVIDE MANUFACTURER'S STANDARD 24V WALL-MOUNTED THERMOSTAT. 4. PROVIDE WITH MANUFACTURER'S STANDARD LOUVER AND CEILING MOUNTING BRACKET.									
GENERAL NOTES: A. ELECTRIC HEAT KW SHOWN IS ACTUAL OUTPUT AT THE VOLTAGE SHOWN. B. CABINET COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLOR.									

VRF INDOOR UNIT SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	UNIT TYPE	DOAS AIR CFM	SUPPLY AIR CFM	COOLING TOTAL BTUH	COOLING SENSIBLE BTUH	HEATING BTUH	ELECTRICAL DATA			
									VOLTS	PHASE	MCA	MOCP (A)
VRU 106	TRANE	TPLFYP015FM140A	24x24 Cassette	0	390	14747.0	9037.0	11548.0	208	1	0.4	15
VRU 108	TRANE	TPLFYP008FM140A	24x24 Cassette	20	315	7865.0	5509.0	6114.0	208	1	0.3	15
VRU 116	TRANE	TPLFYP024EM140A	36x36 Cassette	0	810	24000.0	17100.0	27000.0	208	1	0.4	15
VRU 117	TRANE	TPLFYP024EM140A	36x36 Cassette	0	810	24000.0	17100.0	27000.0	208	1	0.4	15
VRU 122	TRANE	TPLFYP018FM140A	24x24 Cassette	0	460	17696.0	10869.0	13586.0	208	1	0.5	15
VRU 200	TRANE	TPEFYP015MA144A	CONCEALED	0	494	14747.0	10108.0	11548.0	208	1	2.9	15
VRU 201A	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 201B	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 202	TRANE	TPLFYP008FM140A	24x24 Cassette	25	315	7865.0	5509.0	6114.0	208	1	0.3	15
VRU 203	TRANE	TPLFYP008FM140A	24x24 Cassette	25	315	7865.0	5509.0	6114.0	208	1	0.3	15
VRU 205	TRANE	TPEFYP005FM140A	24x24 Cassette	0	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 208	TRANE	TPLFYP012FM140A	24x24 Cassette	25	335	11797.0	7347.0	9171.0	208	1	0.3	15
VRU 209	TRANE	TPLFYP012FM140A	24x24 Cassette	25	335	11797.0	7347.0	9171.0	208	1	0.3	15
VRU 210	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 211	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 212	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 213	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
NOTES: 1. PROVIDE UNIT WITH FBM2-2-A FILTER BOX. 2. CONNECT DOAS SUPPLY AIR TO EQUIPMENT OUTSIDE AIR DUCT CONNECTION. PROVIDE REDUCER AT CONNECTION AS REQUIRED.												
GENERAL NOTES: A. INDOOR UNIT CAPACITIES BASED ON INDOOR SPACE CONDITIONS: SUMMER = 75F/55%RH, WINTER = 70F B. MANUFACTURER TO SIZE REFRIGERANT PIPING AND CALCULATE REFRIGERANT VOLUME REQUIRED. PROVIDE DIAGRAMS WITH SUBMITTALS. C. PROVIDE MANUFACTURER'S BASIC THERMOSTATS AND CENTRAL CONTROLLER. PROVIDE WITH WEB-INTERFACE CAPABILITY. D. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE PUMP. E. PROVIDE 3/4" CONDENSATE LINE UNLESS OTHERWISE NOTED.												

VRF OUTDOOR UNIT SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	CORRECTED COOLING BTUH	CORRECTED HEATING BTUH	FIELD REFRIGERANT CHARGE (lbs)	ELECTRICAL DATA						NOTES
						VOLTS	PHASE	UNIT #1		UNIT #2		
								MCA	MOCP (A)	MCA	MOCP (A)	
VRF 1	TRANE	TURYH1443BN40AN	143867.0	135184.0	33.1	208	3	38.0 A	60 A	38.0 A	60 A	1
NOTES: 1. PROVIDE FACTORY INSTALLED PHASE MONITOR.												
GENERAL NOTES: A. OUTDOOR UNIT CAPACITIES BASED ON AMBIENT TEMPERATURES: SUMMER = 105F, WINTER - 10F B. MANUFACTURER TO SIZE REFRIGERANT PIPING AND CALCULATE REFRIGERANT VOLUME REQUIRED. PROVIDE DIAGRAMS WITH SUBMITTALS. C. PROVIDE MANUFACTURER'S BASIC THERMOSTATS AND CENTRAL CONTROLLER. D. PROVIDE OUTDOOR UNIT WITH MANUFACTURER'S LOW AMBIENT KIT. E. MOUNT UNITS ON STRUCTURAL STEEL BASE AT LEAST 24" ABOVE ROOF - QUICKSLING VRF SUPERSTAND OR EQUIVALENT F. PROVIDE TOP HOOD ACCESSORY, AND HAIL GUARDS.												

BOILER SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	GAS LOAD (BTU/H)			FLOW (GPM)	WATER TEMPERATURE (°F)		ELECTRICAL DATA			
			INPUT	OUTPUT			ENTERING	LEAVING	VOLTS	PHASE	MCA	MOCP (A)
B 1	AERCO	AM 399-500	500.0	495.0	33.0	80		110	120	1	2.25	15
GENERAL NOTES: A. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT. B. PROVIDE LOW WATER CUTOFF WITH MANUAL RESET. C. PROVIDE ASME RELIEF VALVE. D. FUEL SOURCE IS NATURAL GAS. E. OUTPUT SHALL BE BASED ON 40% PROPYLENE GLYCOL.												

VRF BRANCH SELECTOR BOX SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	ELECTRICAL DATA			
			VOLTS	PHASE	MCA	MOCP (A)
BS 1	TRANE	TCMBM1012JA1	208	1	0.7	15
BS 2	TRANE	TCMBM1012JA11N4	208	1	1.6	15
GENERAL NOTES: 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.						

PUMP SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	GPM	HEAD	BHP	HP	VOLTS	PHASE	NOTES
HWP 1	TACO	VR15L	37	15	0.36	0.40	120	1	1
HWP 2	TACO	0034e	14	15	0.00	0.00	120	1	1
HWP 3	TACO	0034e	23	19	0.00	0.00	120	1	1

NOTES:
1. PUMP SHALL HAVE INTEGRAL VFD/ECM MOTOR AND SMART CONTROL. PUMPS SHALL BE SET FOR CONSTANT VOLUME OPERATION

GENERAL NOTES (APPLY TO ALL ABOVE):
A. FLUID IS 30% PROPYLENE GLYCOL
B. ALL PUMPS SHALL BE NON-OVERLOADING.

FILE PATH: BW 380-118225R21001_LeesSummitFireStation_#4 and #5LSMO_FireStation_5_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 - CERTAINTEEED 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 - CERTAINTEEED 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 - CERTAINTEEED 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 - CERTAINTEEED 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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REVISIONS:

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DATE:	10.20.2022
DRAWN BY:	JL
CHK'D BY:	NB

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MECHANICAL SCHEDULES

M402

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PLUMBING MASTER SYMBOLS LEGEND

PIPE FITTINGS AND VALVES

ANNOTATIONS

 INDICATES DEMO FROM EXISTING SYSTEM

② PLAN NOTE REFERENCE

 SECTION REFERENCE
UPPER NUMBER INDICATES DETAIL NUMBER
LOWER NUMBER INDICATES SHEET NUMBER

FCU
111

MECHANICAL EQUIPMENT DESIGNATION

WH-5 3" PLUMBING EQUIPMENT DESIGNATION w/ WASTE CONNECTION SIZE

ABBREVIATIONS

AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AJF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHH	AUTHORITY HAVING JURISDICTION
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOF	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
CP	CONDENSATE PUMP
DEMO	DEMOLITION
DFU	DRAINAGE FIXTURE UNIT
DN	DOWN
DS	DOWNSPOUT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FDA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FL	FLOW LINE
FLA	FULL LOAD AMPS
FR	FROM
GPM	GALLONS PER MINUTE
HD	HEAD, HUB DRAIN
IE	INVERT ELEVATION
IN WC	INCHES OF WATER COLUMN
MBH	1000 BTU PER HOUR
MH	MANHOLE
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
N/O, N/C	NORMALLY OPEN, NORMALLY CLOSED
ORD	OVERFLOW ROOF DRAIN
PROVIDE	FURNISH AND INSTALL
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
SF	SQUARE FEET
SP	SUMP PUMP
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
VNT	VENT STACK
VTR	VENT THROUGH ROOF
WC	WATER COLUMN, WATER CLOSET
WH	WALL HYDRANT
WS	WASTE STACK

LINETYPE LEGEND










_____ EXISTING TO REMAIN
_____ NEW WORK
- - - - - DEMOLISH

	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

PIPING

-----	WASTE LINE ABOVE FLOOR
-----	WASTE LINE BELOW FLOOR
---GW---	GREASE WASTE LINE ABOVE FLOOR
---GW---	GREASE WASTE LINE BELOW FLOOR
-----	VENT LINE
-----	DOMESTIC COLD WATER
-----	DOMESTIC HOT WATER
-----	DOMESTIC HOT WATER RECIRC.
---T---	DOMESTIC TEMPERED HOT WATER
---140---	140 DEGREE DOMESTIC HOT WATER
-----	ROOF DRAIN ABOVE FLOOR
-----	ROOF DRAIN BELOW FLOOR
---AW---	ACID WASTE ABOVE FLOOR
---AW---	ACID WASTE BELOW FLOOR
---AV---	ACID VENT BELOW FLOOR
---CA---	COMPRESSED AIR
---G---	NATURAL GAS
---W---	DOMESTIC WATER SERVICE
---CD---	CONDENSATE DRAIN

PLUMBING EQUIPMENT

	FLUSH FLOOR CLEANOUT
	FLUSH GRADE CLEANOUT
	WALL CLEANOUT
	ROOF DRAIN
	FLUSH DRAIN
	FLOOR SINK
	HOSE BIB
	WALL HYDRANT
	PLUMBING FIXTURE (REFER TO SCHEDULE E)

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

PLUMBING GENERAL NOTES:

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



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DATE: 10/30/2023

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CHK'D BY: NB

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PLUMBING SYMBOLS LEGEND

P001

- PLUMBING PLAN NOTES:**
- 24FT TRENCH DRAIN, REFER TO SPECIFICATIONS.
 - 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.
 - 4" TRAPPED WASTE UP TO FLOOR SINK.
 - 4" WASTE UP TO FLOOR GRADE CLEANOUT.
 - 2" WASTE UP TO FLOOR CLEANOUT.
 - 2" TRAPPED WASTE UP TO SHOWER.
 - 2" TRAPPED WASTE UP TO TRENCH DRAIN.
 - 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.
 - 1-1/2" VENT UP.
 - 2" VENT UP.
 - 1-1/4" COLD WATER 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.
 - PROVIDE STRIEM OS-100 100 GPM POLYETHYLENE OIL/SAND SEPARATOR.
 - 3" VENT UP.
 - 6" STORM DRAIN. REFER TO CIVIL PLANS FOR CONTINUATION.

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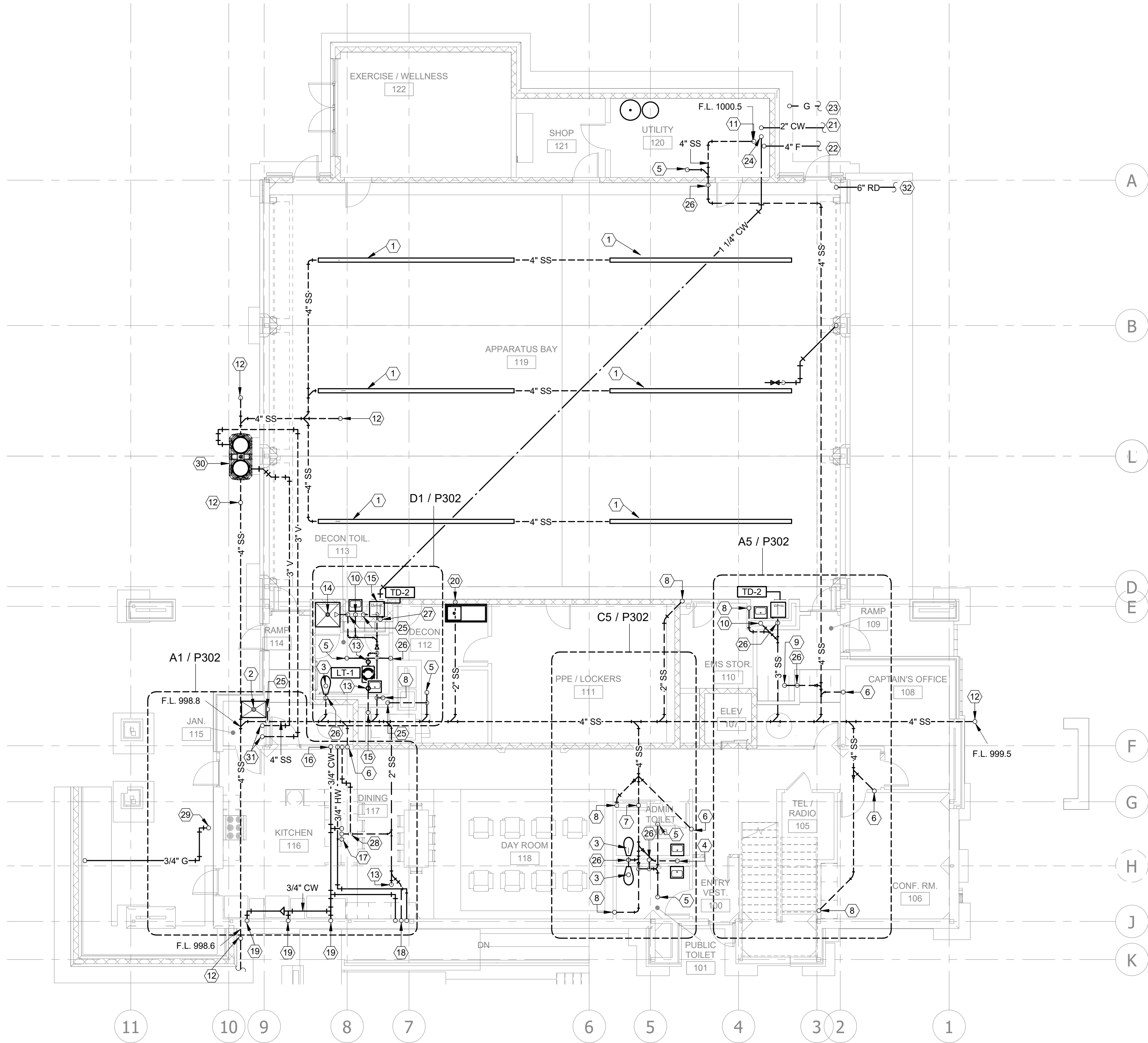
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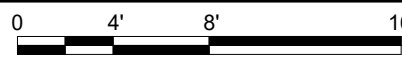
UNDERGROUND PLUMBING PLAN

P100

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A1 UNDERGROUND PLUMBING PLAN
1/8" = 1'-0"





- 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 SHUT-OFF VALVE.
- 6 1" COLD WATER FROM ABOVE, PROVIDE SHUT-OFF 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 FROM ABOVE, 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 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 PIPING DOWN TO COMPRESSOR.
- 20 2" DOUBLE-CHECK BACKFLOW PREVENTER SERVING DOMESTIC WATER TO BE MOUNTED IN VERTICAL POSITION.
- 21 2" DOUBLE-CHECK BACKFLOW PREVENTER SERVING FIRE PROTECTION TO BE MOUNTED IN VERTICAL POSITION.
- 22 ROUTE DOMESTIC WATER THROUGH WARM SIDE OF INSULATION IN CEILING.
- 23 1-1/4" DOMESTIC COLD WATER DOWN BELOW GRADE WITH SHUT OFF VALVE. AIR HOSE REEL, REFER TO SPECS.
- 24 6" STORM DRAIN DOWN BELOW GRADE.
- 25 4" FIRE PROTECTION WATER SERVICE IN FROM BELOW, REFER TO BELOW GRADE PLUMBING PLAN, SHEET P-100, FOR CONTINUATION.
- 27 2" DOMESTIC WATER SERVICE UP. SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
- 28 4" FIRE SERVICE UP. SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
- 29 NEW GAS SERVICE AND METER.
- 30 1/2" COMPRESSED AIR DOWN TO HOSE REEL.
- 31 3/4" COMPRESSED AIR UP.



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P101



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SECOND FLOOR PLUMBING PLAN

P102

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SPECIFICATIONS

1. 4" Plain End inlet/outlet, 3" Plain End vents.
2. Max flow rate: 100 GPM
3. Capacities: Liquid: 250 gal. (33.4 cu. ft.); Oil: 144 gal.; Sand: 95 gal.
4. Unit weight with composite cover: 230 lbs.; with cast iron: 346 lbs.
5. Maximum operating temperature 140 °F continuous.
6. Highway rated covers: 16,000 lb. capacity.

NOTES

1. Snap-in Flow control (ships with unit).
2. Seamless medium density polyethylene tank.
3. Unit supplied with built-in adapter for up to 5" of adjustability. Additional riser(s) available for deeper burial depth.
4. Cover placement allows full access to tank for proper maintenance.
5. Narrow footprint allows clearance through doorways and down stairs.
6. Engineered inlet and outlet diffusers are removable to inspect/clean piping.
7. 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

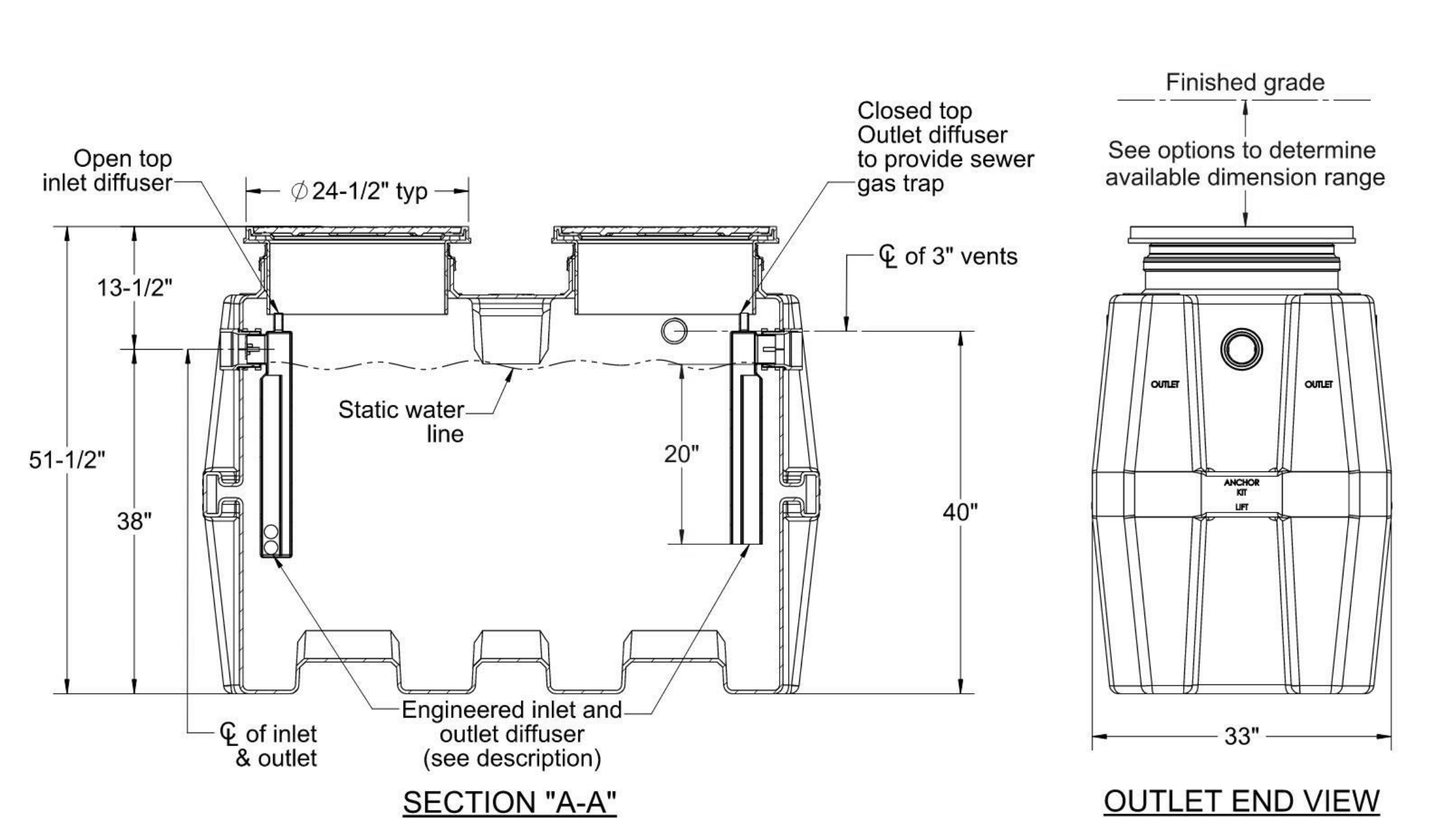
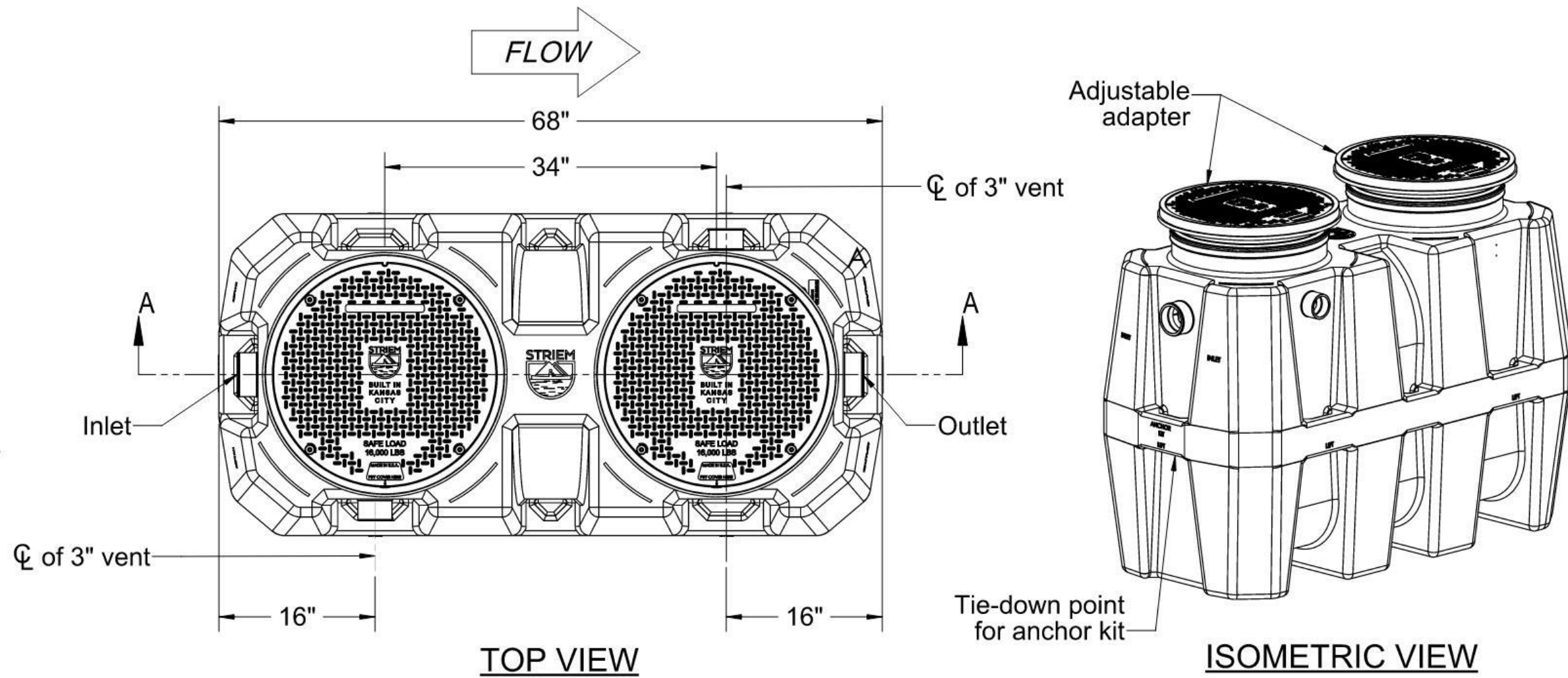
- ☐ 4M - 4" Male Thread Inlet / Outlet
- ☐ 6P - 6" Plain End SCH.40 Inlet / Outlet
- ☐ 6M - 6" Male Thread Inlet / Outlet
- ☐ C24-HP (2) - H20 Rated Pickable Cast Iron Cover
- ☐ CC24 (2) - Integral Membrane Clamping Collar Kit
- ☐ CS3 - Clean Sweep Coalescing Media (single)*
- ☐ CS6 - Clean Sweep Coalescing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

*Clean Sweep Coalescing Media not compatible with CPRK

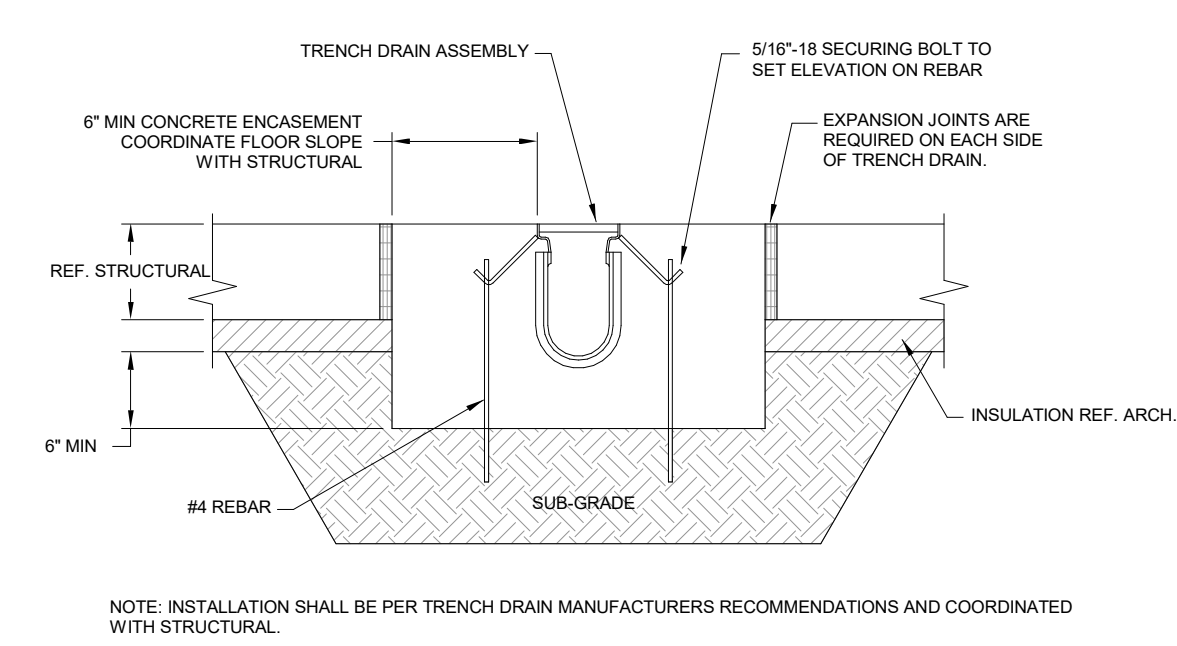
RISER OPTIONS

- ☐ 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.

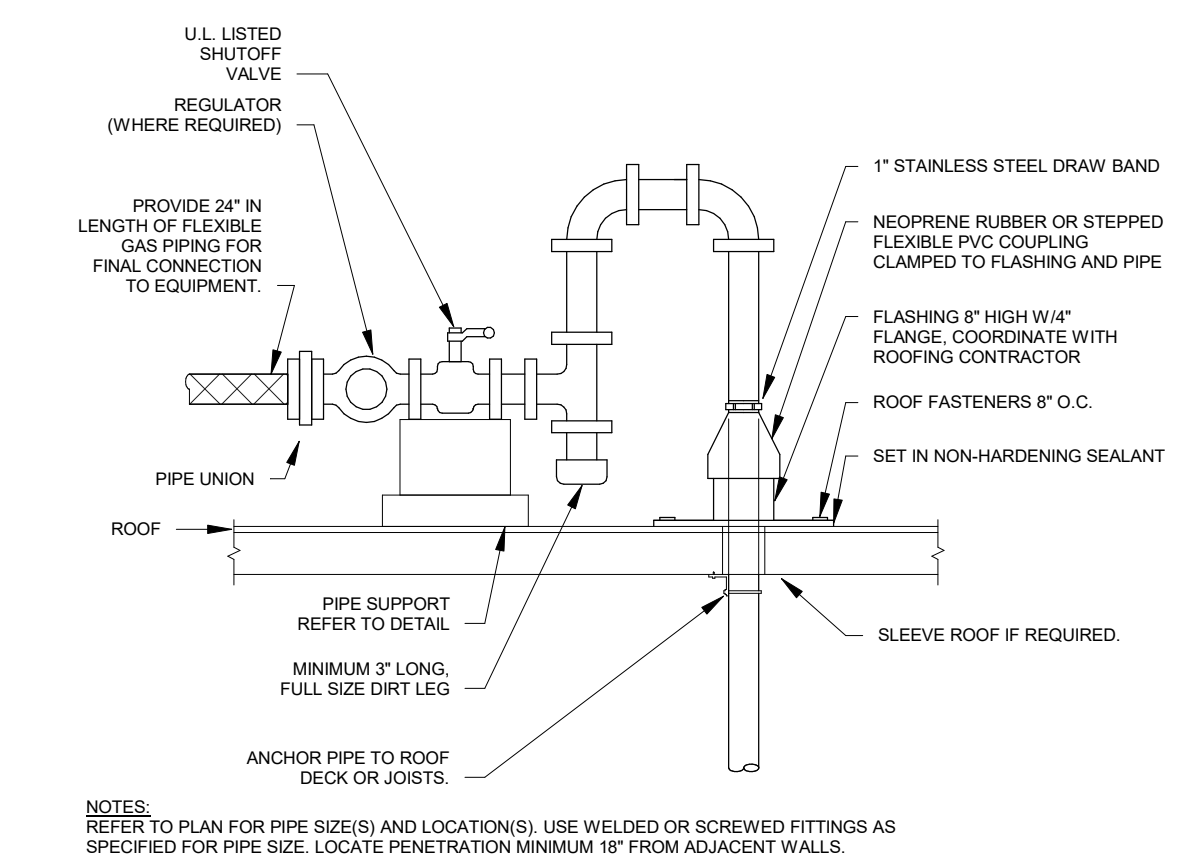
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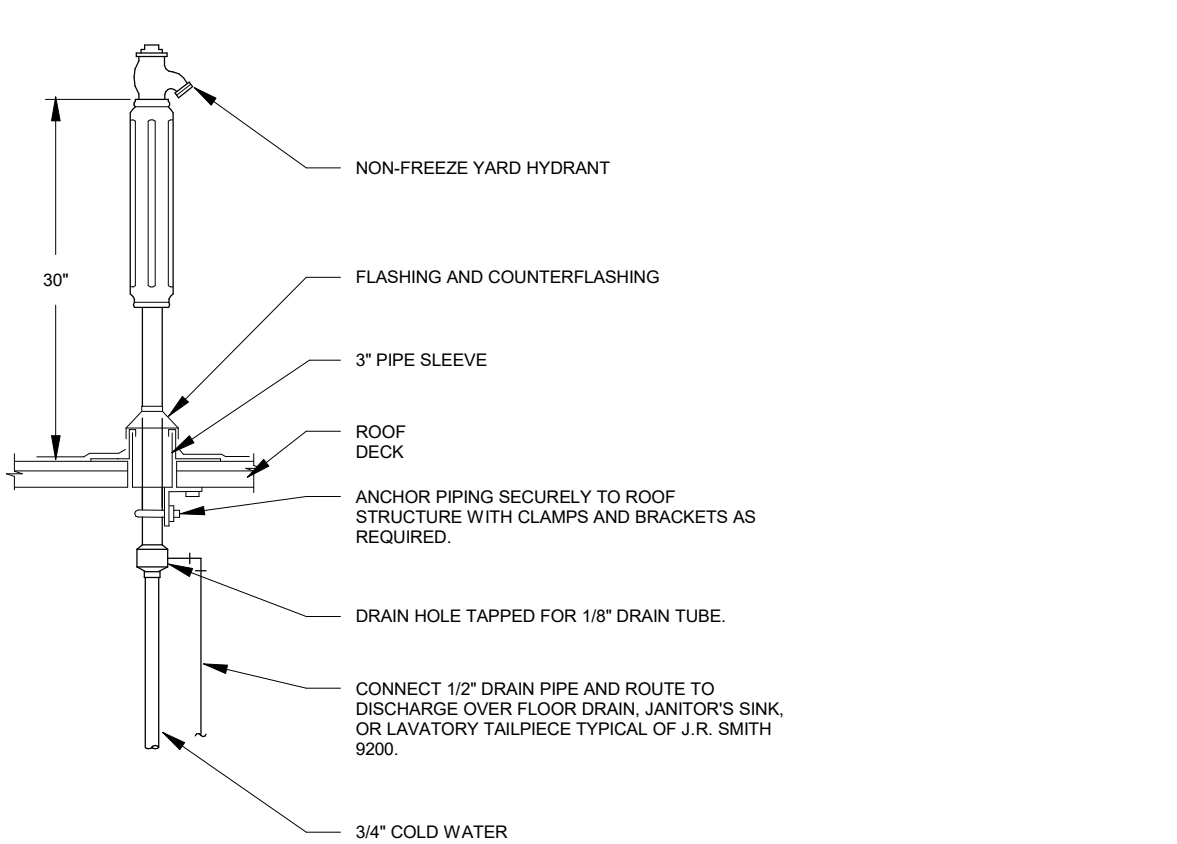
MODEL NUMBER: OS-100		SPECIFICATION SHEET	
DESCRIPTION: 100 GPM POLYETHYLENE OIL/SAND SEPARATOR		<div>Striem 3100 Brinkerhoff Kansas City, KS 66115 Tel: 913-222-1500 orders@striemco.com www.striemco.com</div> <div>Made in the U.S.A</div>	
DWG BY: MJ	DATE: 12/09/2020	REV: 0	ECO:



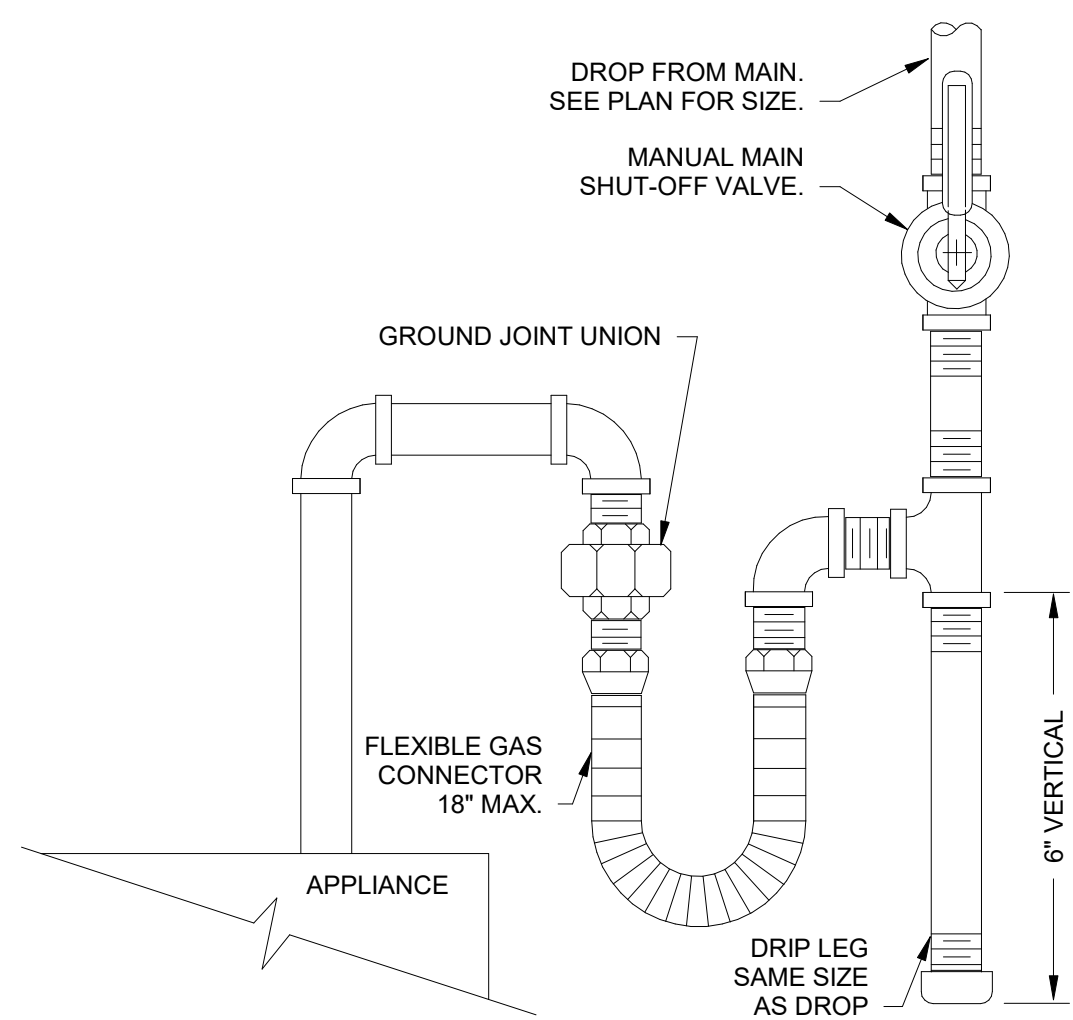
D7 TRENCH DRAIN DETAIL
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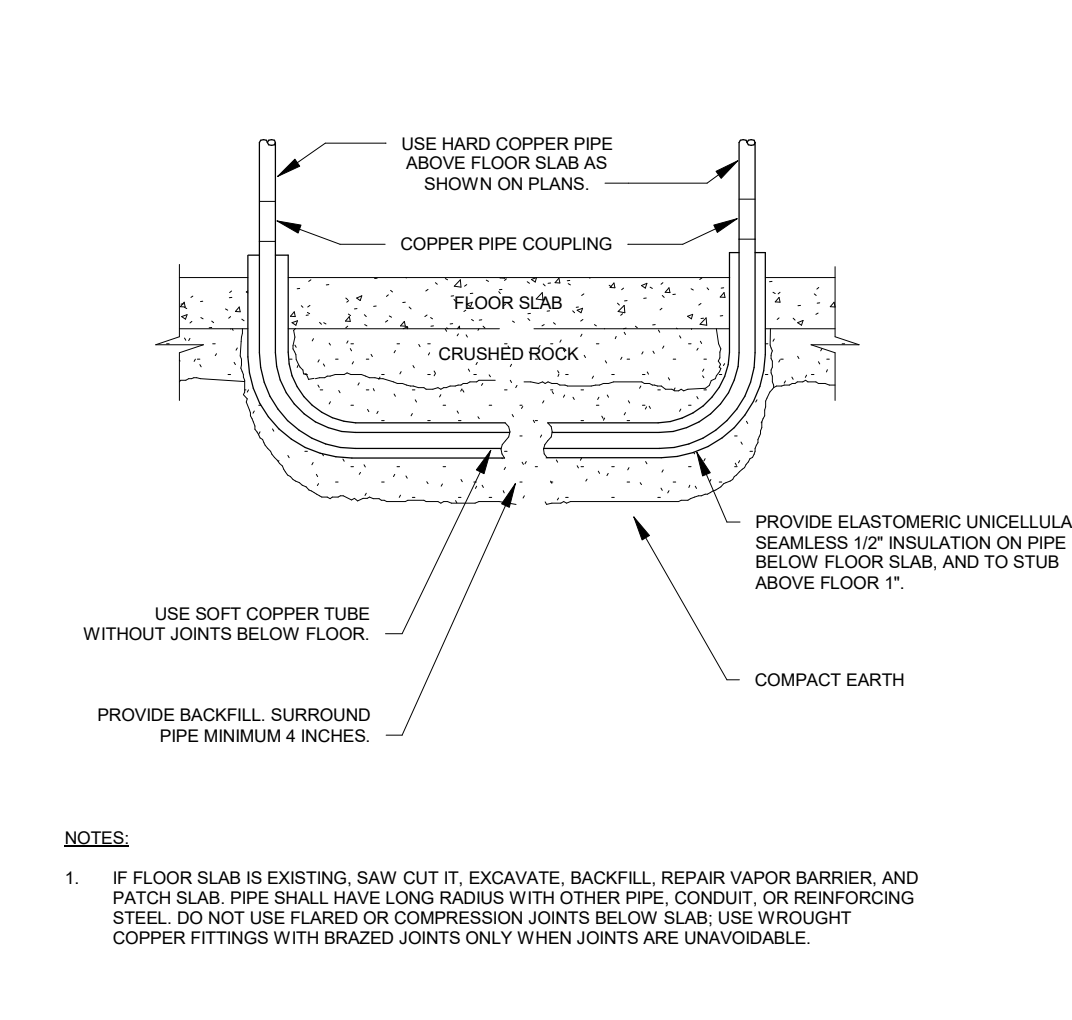
C7 GAS PIPE THRU ROOF
NOT TO SCALE



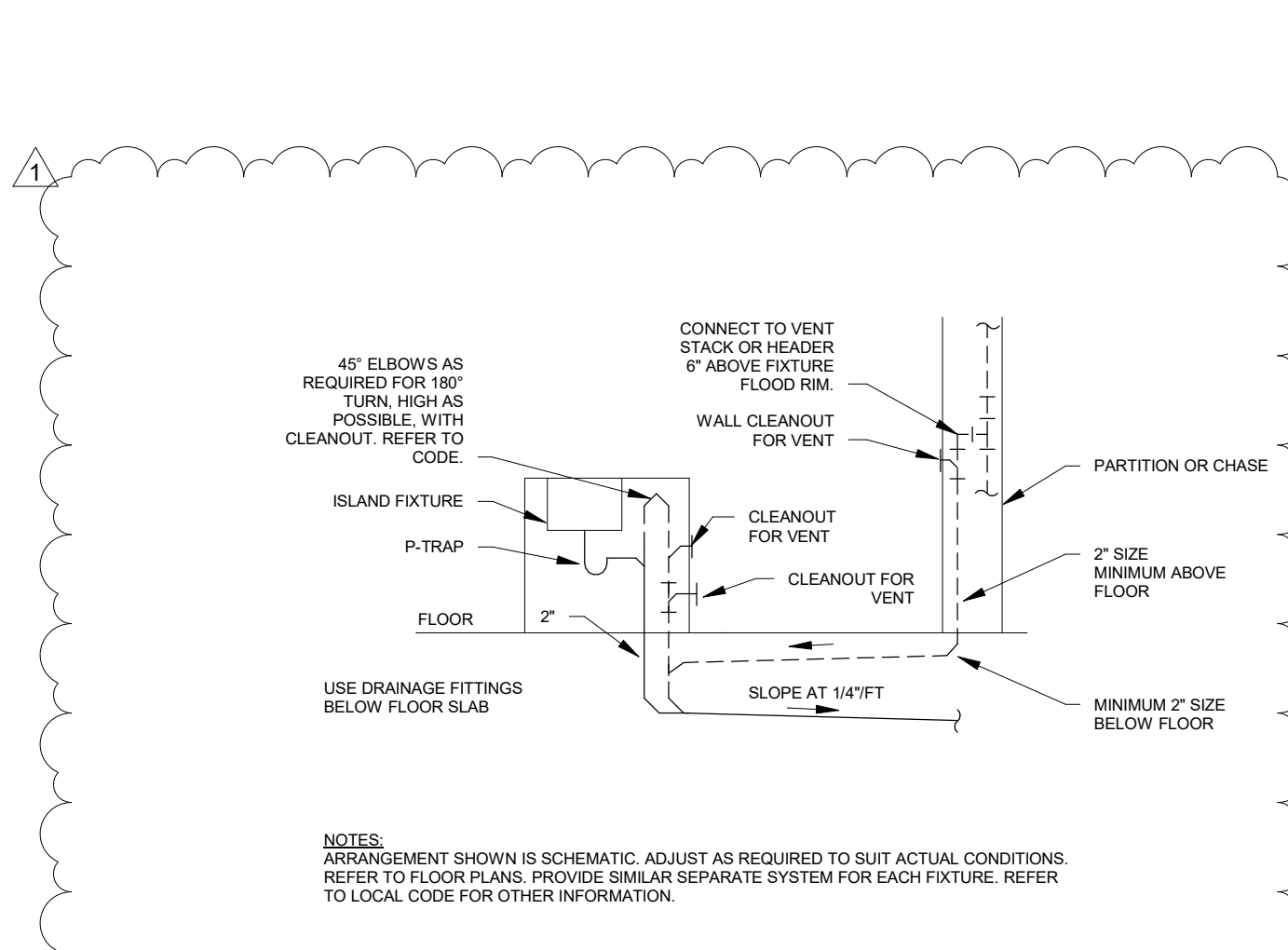
B7 ROOF HYDRANT
NOT TO SCALE



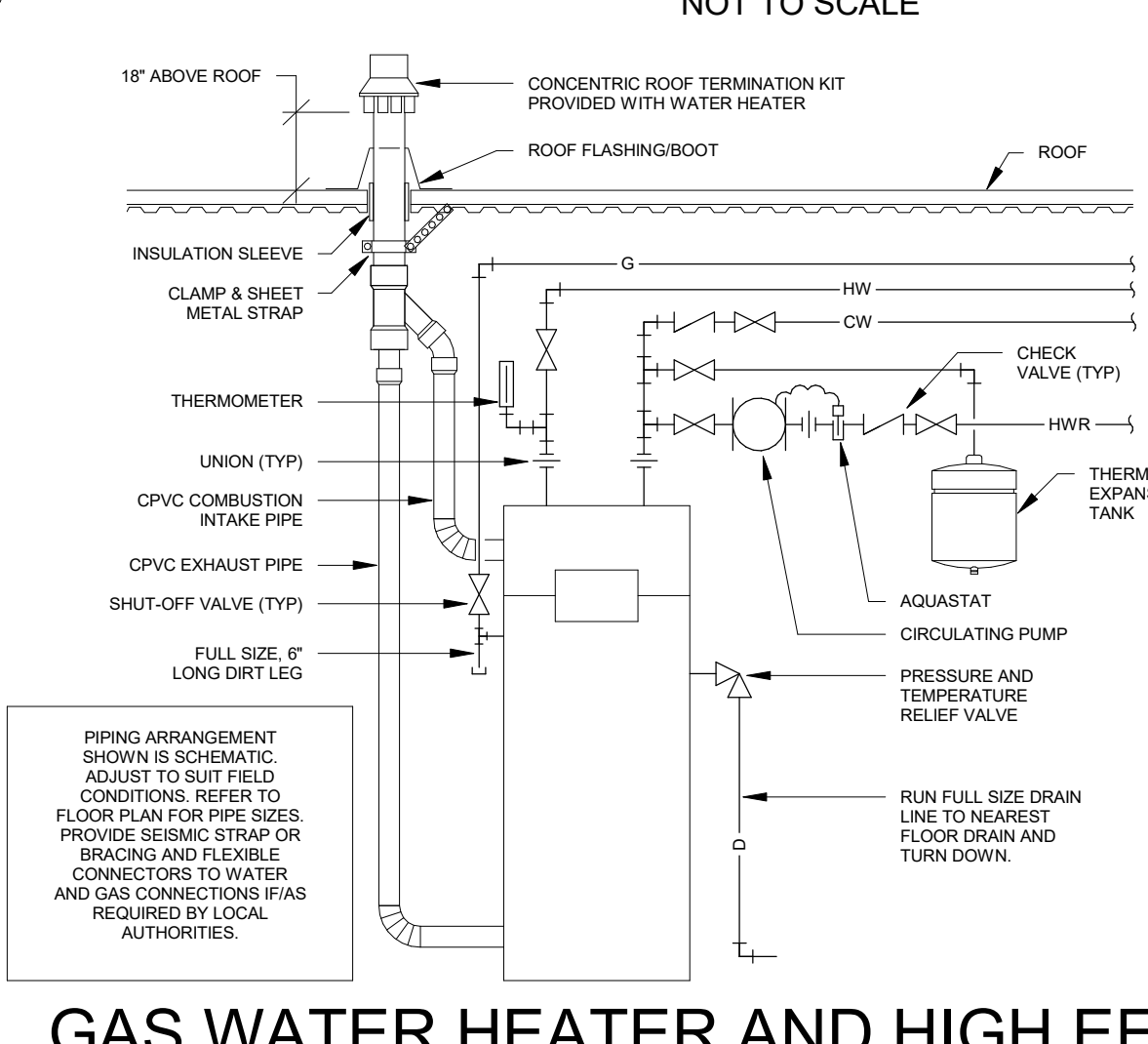
A1 GAS APPLIANCE CONNECTION DETAIL
NOT TO SCALE



A3 UNDER SLAB WATER PIPE
NOT TO SCALE



A5 ISLAND FIXTURE VENT
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A7 GAS WATER HEATER AND HIGH EFF VENT ROOF
NOT TO SCALE



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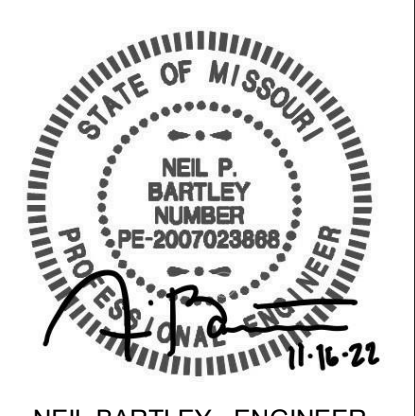
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PLUMBING DETAILS

P301

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PLUMBING PLAN NOTES:

- 1 SEE UNDERGROUND PLUMBING PLAN, P100, FOR CONTINUATION.
- 2 1-1/2" VENT DOWN AND 2" WASTE UP TO LAVATORY.
- 3 3" TRAPPED WASTE UP TO TRENCH DRAIN.
- 4 2" TRAPPED WASTE UP TO FLOOR SINK.
- 5 1-1/2" VENT DOWN AND 2" WASTE UP TO SHOWER.
- 6 1-1/2" VENT DOWN AND 2" WASTE UP TO WASHING MACHINE BOX.
- 7 2" VENT DOWN AND 4" WASTE UP TO WATER CLOSET.
- 8 2" TRAPPED WASTE UP TO FLOOR DRAIN.
- 9 1-1/2" VENT DOWN AND 2" WASTE UP TO DRINKING FOUNTAIN.
- 10 1-1/2" VENT DOWN AND 3" TRAPPED WASTE UP TO JANITOR'S SINK.
- 11 1-1/2" VENT DOWN AND 2" WASTE UP TO SINK.
- 12 SEE SECOND FLOOR PLUMBING PLAN, P102, FOR CONTINUATION.
- 13 SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
- 14 2" TRAPPED WASTE UP TO TRENCH DRAIN.



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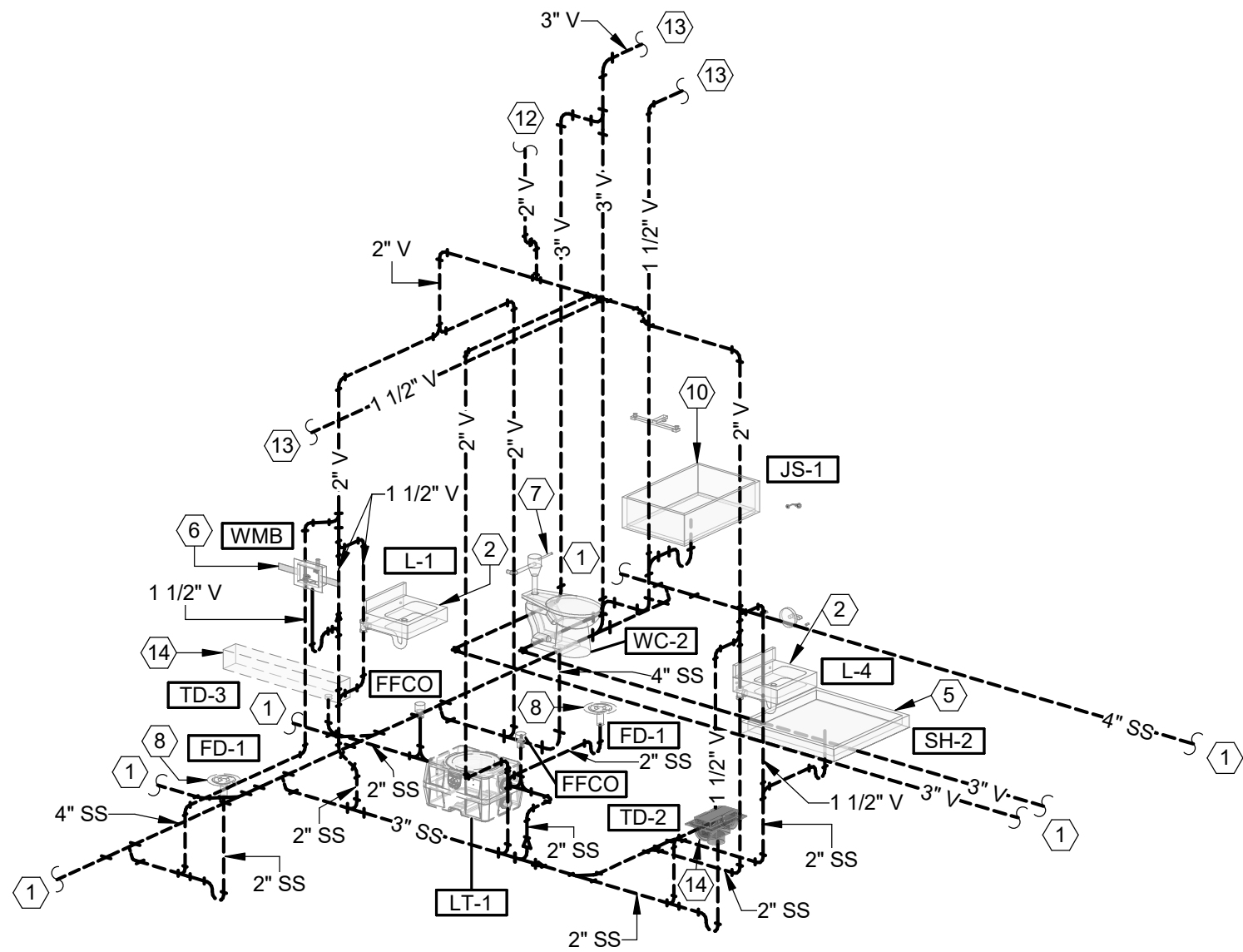
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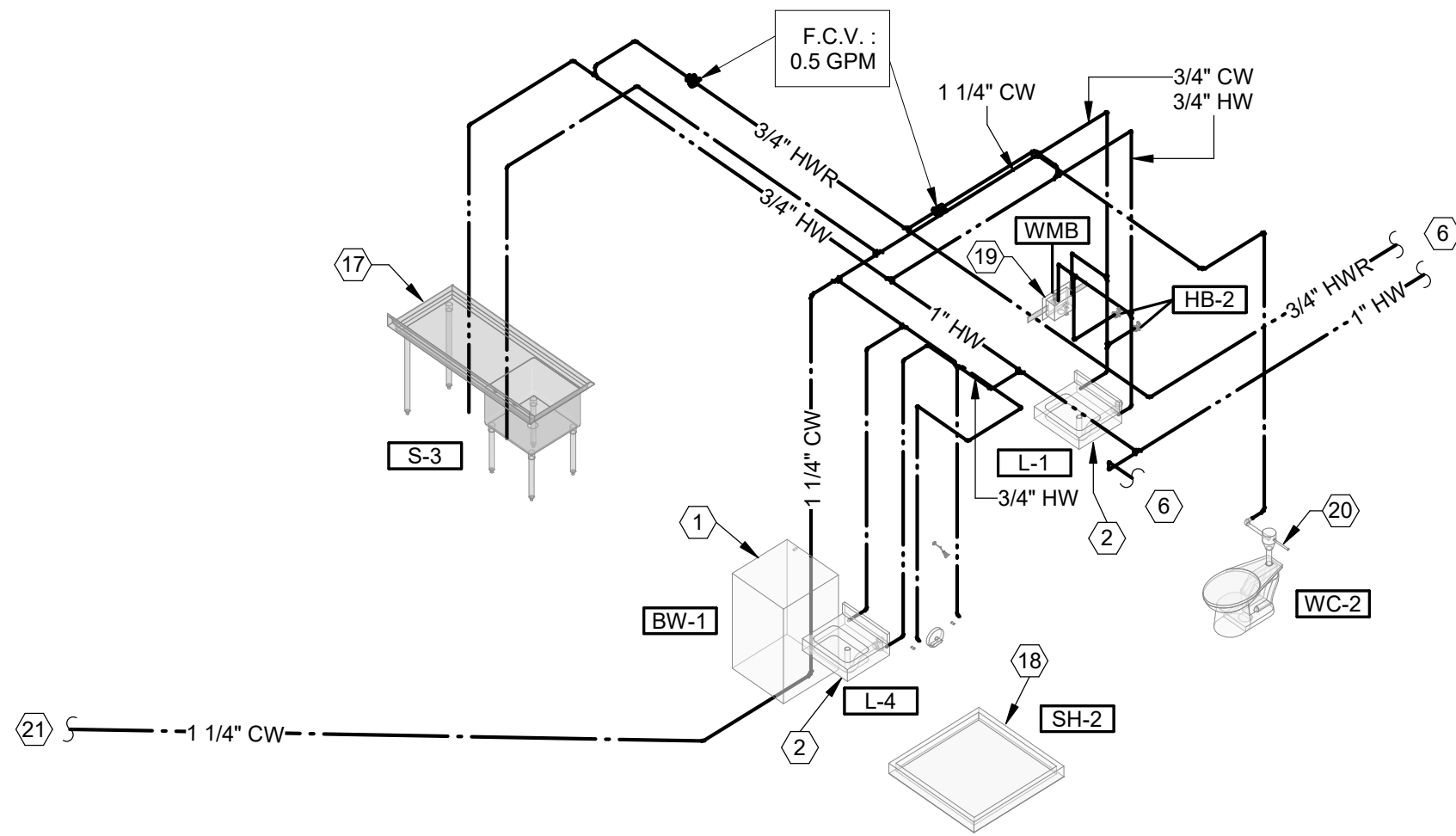
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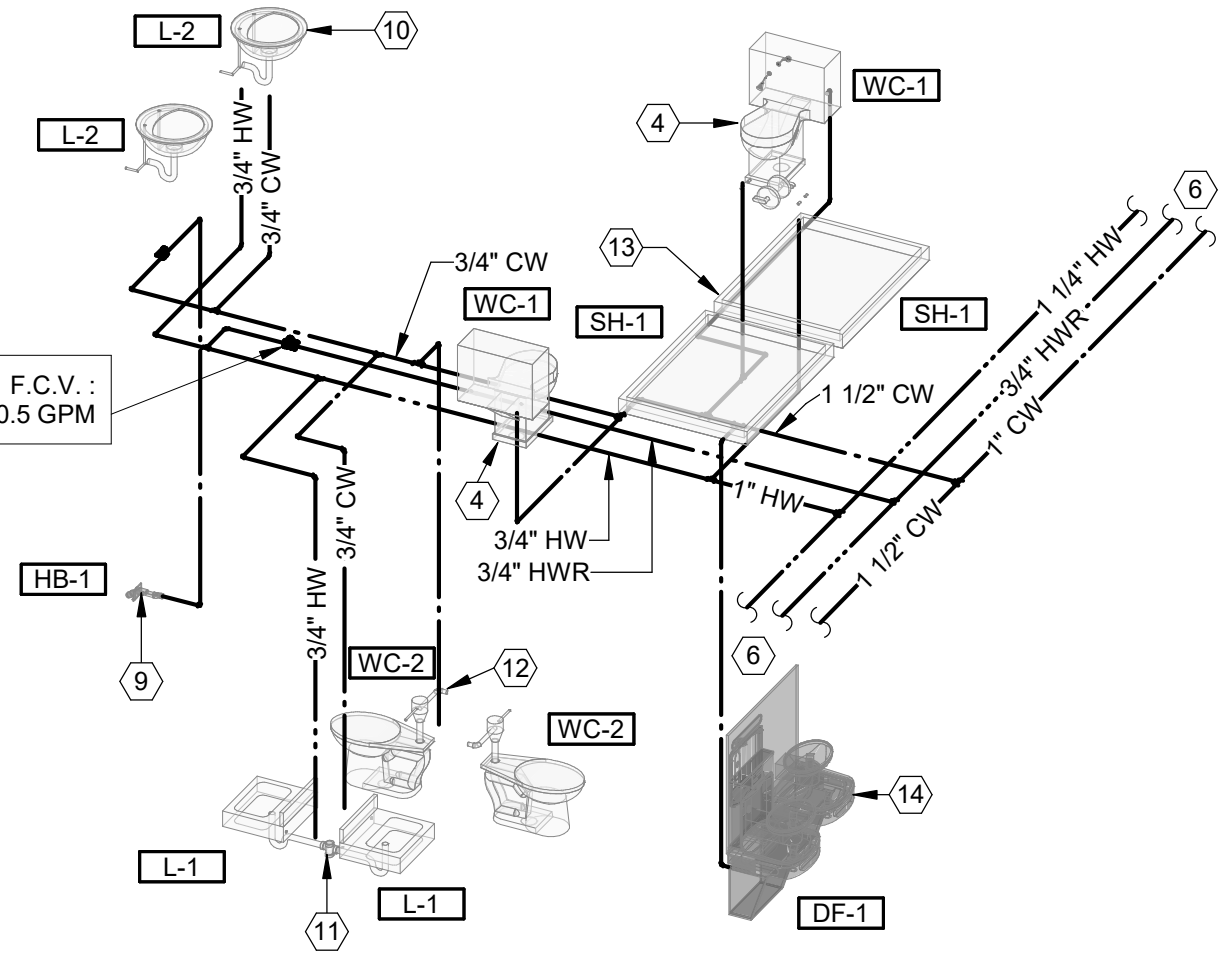
P302

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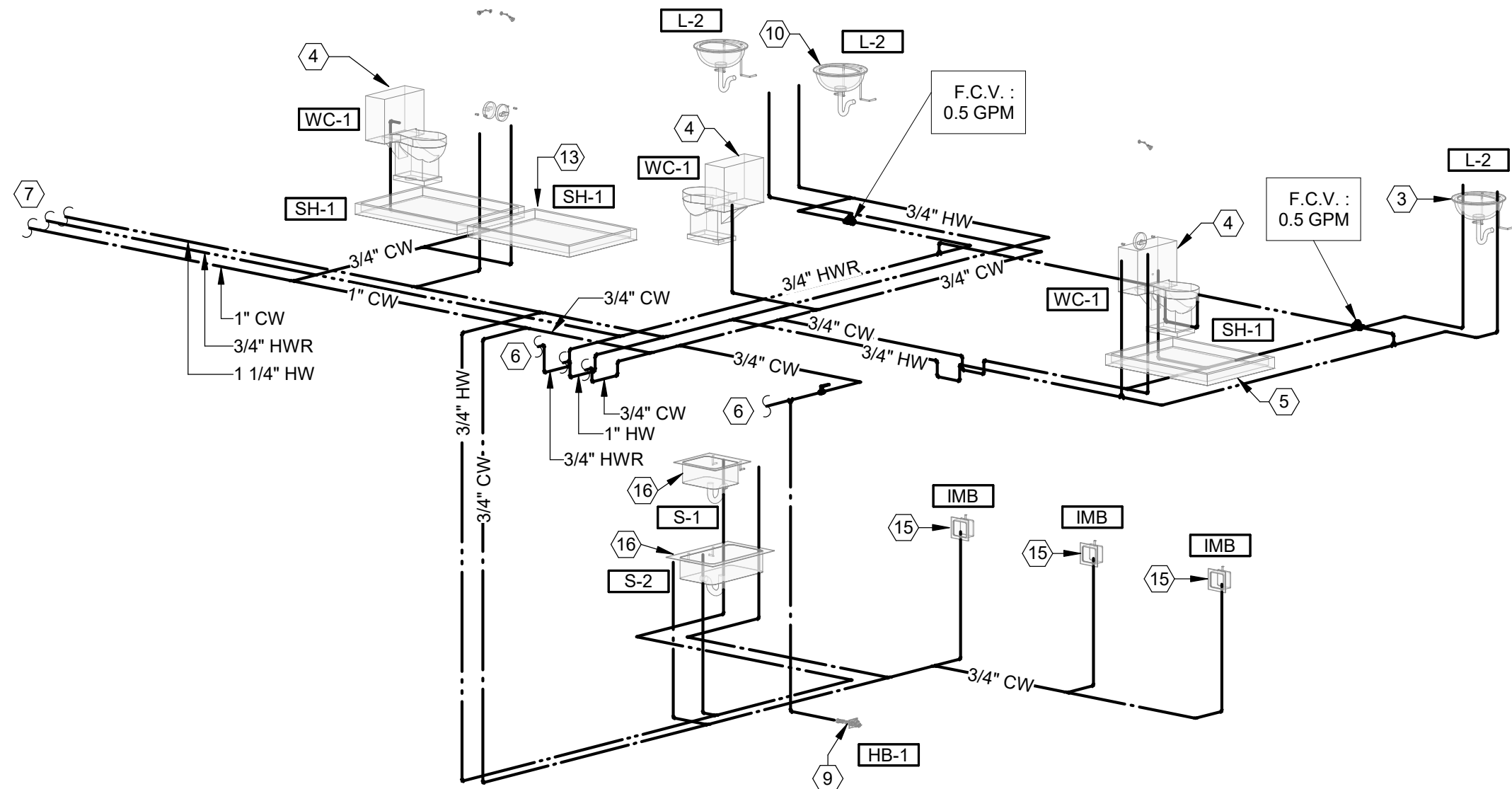




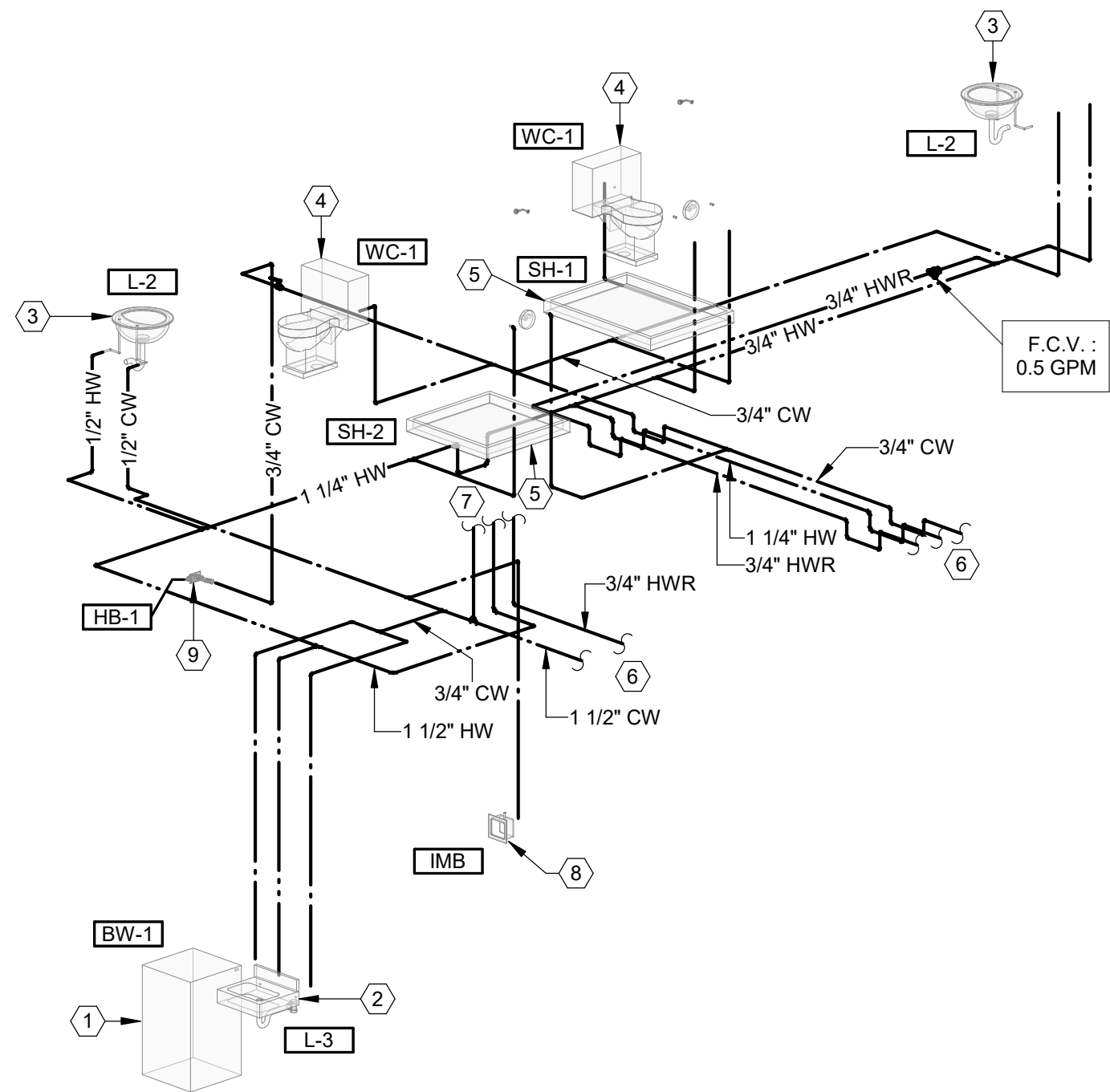
C1 DOMESTIC WATER RISER 4
NOT TO SCALE



C3 DOMESTIC WATER RISER 2
NOT TO SCALE



A1 DOMESTIC WATER RISER 3
NOT TO SCALE



A5 DOMESTIC WATER RISER 1
NOT TO SCALE

- PLUMBING PLAN NOTES:**
- 1/2" COLD WATER DOWN TO BOOT WASH STATION.
 - 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 UP TO WATER CLOSET.
 - 1/2" COLD AND 1/2" HOT WATER UP TO SHOWER.
 - SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
 - SEE SECOND FLOOR PLUMBING PLAN, P102, FOR CONTINUATION.
 - 1/2" COLD WATER DOWN TO ICE MAKER BOX.
 - 3/4" COLD WATER DOWN TO HOSE BIBB.
 - 3/4" COLD AND 3/4" HOT WATER UP TO LAVATORIES.
 - 3/4" COLD AND 3/4" HOT WATER DOWN TO LAVATORIES.
 - 1-1/4" COLD WATER DOWN TO WATER CLOSETS.
 - 3/4" COLD AND 3/4" HOT WATER UP TO SHOWERS.
 - 1/2" COLD WATER DOWN TO DRINKING FOUNTAIN.
 - 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.
 - 1/2" COLD AND 1/2" HOT WATER DOWN TO SHOWER.
 - 1/2" COLD AND 1/2" HOT WATER DOWN TO WASHING MACHINE BOX.
 - 1-1/4" COLD WATER DOWN TO WATER CLOSET.
 - SEE UNDERGROUND PLUMBING PLAN, P100, FOR CONTINUATION.



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100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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NEIL BARTLEY - ENGINEER
MO# PE-2007023868

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PROJECT NO: 18225R21001
DATE: 10.20.2022
DRAWN BY: JL
CHK'D BY: NB

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DOMESTIC WATER RISERS

P303

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PLUMBING FIXTURE SCHEDULE (CONTINUED)									
MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTIONS				NOTES
					CW	HW	W	V	
WMB	WASHING MACHINE CONNECTION BOX	GUY GRAY	B200	GALVANIZED STEEL BOX	1/2"	1/2"	2"	1-1/2"	
IMB	ICE MAKER CONNECTION BOX	GUY GRAY	BIM875	GALVANIZED STEEL BOX	1/2"	--	--	--	
MV-1	POINT-OF-USE THERMOSTATIC MIXING VALVE	SYMMONS	8600	0.25 GPM MIN. FLOW ASSE 1017 CERTIFIED LOW FLOW	SEE...		--	--	15
EW-1	FAUCET WITH INTEGRAL EMERGENCY EYE WASH	LEONARD POWERS	270-LF						
		BRADLEY	S19-505M	FAUCET WITH SWING ACTIVATED EYE-WASH PROVIDE S19-2000 TMV	1/2"	1/2"	--	--	
ET-1	EXPANSION TANK	AMTROL	THERM-X-TROL ST-12	DOMESTIC WATER SERVICE	--	3/4"	--	--	
		TACO	PAX						
RP-1	HIGH EFFICIENCY RECIRCULATION PUMP	TACO	006e3	1/40 HP, 120V AQUASTAT WITH 7-DAY DIGITAL TIMER 3.0 GPM, 8" HEAD	--	--	--	--	15
GD-1	GARBAGE DISPOSAL	INSINKERATOR	BADGER 5	1/2 HP, 120V	--	--	--	--	
HB-1	NON-FREEZE WALL HYDRANT	WOODFORD	MODEL 65	VACUUM BREAKER	1/2"	--	--	--	10
		WADE	8600	LOOSE CONTROL KEY					
		SMITH	5609QT	WALL CLAMP					
HB-2	ROUGH BRASS HOSE BIBB	WOODFORD	MODEL 24	VACUUM BREAKER	1/2"	--	--	--	
		CHICAGO	998	DRAIN PLUG					
RD-1	CAST IRON ROOF DRAIN WITH CAST IRON DOME	WADE	W-3000	ROOF DRAIN WITH FLANGE,	--	--	--	--	
		ZURN	ZC-100	FLASHING RING, GRAVEL STOP					
		SMITH	1010-CID	AND CAST IRON DOME					
RH-1	FREEZELESS ROOF HYDRANT NO DRAIN	WOODFORD	2131R	--	3/4"	--	--	--	
NOTES:									
1. FIXTURE IS ADA COMPLIANT. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL MOUNTING HEIGHT.									
2. FAUCET HOLES TO MATCH FAUCET SPECIFIED.									
3. MOUNT WITH HANDICAPPED RECEPTOR RIM 34" ABOVE FLOOR.									
4. FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER ADA.									
5. PROVIDE TRAP GUARDS FOR ALL FLOOR DRAINS OUTSIDE OF FOOD SERVICE AREA.									
6. PROVIDE FIRE RATED BOX WHERE INSTALLATION IS WITHIN FIRE RATED WALLS, AND STANDARD BOX FOR ALL OTHER WALL TYPES.									
7. TOLIET FLUSH HANDLES SHALL BE MOUNTED ON THE OPEN SIDE OF THE WATER CLOSET OPPOSITE THE GRAB BALL WALL.									
8. PROVIDE BLOCKING FOR FUTURE GRAB BAR INSTALLATION.									
9. COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED.									
10. PROVIDE OPERATING ROD ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS BASED ON WALL THICKNESS.									
11. PIPE FOR SHOWER HEAD SHALL BE LOCATED AT 6'-8" A.F.F., ABOVE SURROUND									
12. COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED.									
13. EQUIVALENT CARRIER BY WADE.									
14. PLUG THE DRAIN FITTING AT THE BOX.									
15. PIPE SIZE AS SHOWN ON DRAWING.									
16. PROVIDE LOAD CLASS C, 9870-462-DGC DUCTILE IRON SLOTTED GRATE. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.									
GENERAL NOTES:									
A. PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES.									

TOTAL CONNECTED GAS LOAD	
EQUIPMENT MARK	GAS LOAD (MBH)
B 1	500.0
DOAS 1	104.3
ERV 1	196.2
GENERATOR	2115.0
GRILL	56.0
RANGE OVEN	78.0
WH 1	199.9
TOTAL GAS LOAD: 7	3249.4

PIPE INSULATION	
INSULATION	DESCRIPTION
TYPE 1	FIBER GLASS RIGID MOLDED INSULATION - JOHNS-MANVILLE MICRO-LOK, ASJ JACKET, K-VALUE = 0.23, MAX SERVICE TEMP = 850°F VAPOR TRANSMISSION = 0.02 PERMS MAX, COMPLIES WITH ASTM C 547, CLASS 3, AND ASTM C1136 TYPE 1
TYPE 2	PVC JACKETS, HIGH-IMPACT-RESISTANT, UV-RESISTANT, 30 MILS THICK, 1" OVERLAP AT LONGITIDINAL SEAMS AND END JOINTS COMPLIES WITH ASTM D 1784 AND CLASS 16354-C
TYPE 3	ALUMINUM JACKETS, 0.016" THICK, EMBOSSED FINISH, LONGITUDINAL SLIP JOINTS AND 2" LAPS
TYPE 4	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 LAVATORY PIPING COVERS - HANDICAPPED LAVATORY P-TRAPS AND HOT/COLD WATER LINES SHALL BE INSULATED WITH TRUEBRO LAV GUARD 2, FULLY MOLDED VINYL INSULATION SYSTEM. VINYL THICKNESS = 0.125", ADA COMPLIANT, MEETING ASTM D-635, ASTM G21, ASTM G22, COLOR SHALL BE CHINA WHITE AND PAINTABLE WITH LATEX PAINT.
INSULATED PIPE SUPPORTS	
PIPE SIZE	INSERT LENGTH
1 1/2" TO 5"	6"
6" TO 8"	9"
INSULATION THICKNESS FOR PIPES LOCATED WITHIN THE BUILDING THERMAL ENVELOPE	
PIPE SIZE	INSULATION
2" - 4"	TYPE 4
TYPE 4	4
PIPE SIZE	INSULATION
2" - 4"	TYPE 1
TYPE 1	...
PIPE SIZE	INSULATION
2" - 4"	TYPE 1
TYPE 1	...
PIPE SIZE	INSULATION
2" - 4"	TYPE 1
TYPE 1	...
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.	SEAL LONGITUDINAL SEAMS, ENG JOINTS AND PROTRUSIONS WITH VAPOR-BARRIER MASTIC AND JOINT SEALANT.
3.	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.	INSTALL ALL PIPE INSULATION PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
C.	INSTALL INSULATION CONTINUOUSLY THROUGH PENETRATIONS
D.	PROVIDE LAVATORY PIPING COVERS AT ALL ADA ACCESSIBLE SINKS AND LAVATORIES

PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTIONS				NOTES
					CW	HW	W	V	
WC-1	ADA FLOOR MOUNTED FLUSH TANK	AMERICAN STANDARD	CADET III 3717C.001	CHURCH 9500C OPEN FRONT SEAT	1/2"	--	4"	2"	1, 4, 7
	WATER CLOSET-1.28 GPF	KOHLER	K-5310-0	TOTO SC534 OPEN FRONT SEAT					
		TOTO	CST454CEFG						
WC-2	ADA FLOOR MOUNTED FLUSH VALVE	AMERICAN STANDARD	MADERA 3043.001	FLUSH VALVE: FV-1	1-1/4"	--	4"	2"	4, 9
	WATER CLOSET	KOHLER	K-96057-0	CHURCH 9500C OPEN FRONT SEAT					
		TOTO	CT705ELN	TOTO SC534 OPEN FRONT SEAT					
FV-1	BATTERY POWERED SENSOR WATER CLOSET FLUSH VALVE	SLOAN	G2 811-1.6	1.6 GALLONS PER FLUSH	--	--	--	--	
		ZURN	ZER6000AV-TM-WS1						
		TOTO	TET1GA						
L-1	WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	FAUCET: F-7	--	--	2"	1-1/2"	2
		KOHLER	KINGSTON K-2005	20X18 BASIN, CONCEALED					
		TOTO	LT307	ARM CARRIER, MIXING VALVE MV-1					
L-2	SOLID SURFACE SINK FURNISHED WITH COUNTERTOP	FURNISHED BY OTHERS	--	FAUCET: F-1	--	--	2"	1-1/2"	2
L-3	WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	FAUCET: F-3	--	--	2"	1-1/2"	2
		KOHLER	KINGSTON K-2005	20X18 BASIN, CONCEALED					
		TOTO	LT307	ARM CARRIER, MIXING VALVE MV-1					
L-4	WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	FAUCET: EW-1	--	--	2"	1-1/2"	2
		KOHLER	KINGSTON K-2005	20X18 BASIN, CONCEALED					
		TOTO	LT307	ARM CARRIER					
S-1	ADA SINGLE BOWL 18 GAUGE SELF RIM SINK	ELKAY	LRAD202265PD LUSTERSTONE	FAUCET F-3	--	--	2"	1-1/2"	1, 2, 4
S-2	ADA SINGLE BOWL TOP MOUNT KITCHEN SINK	ELKAY	LRADQ312265PD LUSTERSTONE	FAUCET: F-3	--	--	2"	--	1, 2, 4
				GARBAGE DISPOSAL: GD-1					
				33X22X5-1/2" SINGLE BOWL					
S-3	SINGLE BOWL SINK WITH TWO DRAINBOARDS	JUST MANUFACTURING	NSFB-260-24RL-12/12	FAUCET: F-4	--	--	2"	--	2
S-4	FLOOR MOUNTED TUB TYPE SERVICE SINK	FIAT	FL-1	FAUCET F-6	--	--	2"	1-1/2"	
				INTEGRAL DRAIN WITH STOP					
JS-1	MOLDED STONE JANITOR'S SINK	FIAT	MSB-3624	FAUCET: F-5;	--	--	3"	1-1/2"	
				S/S BUMPERGUARDS,					
				S/S WALL GUARDS					
BW-1	BOOT WASH	RHINO	AGRIWASH	FAUCET: HB-2	--	--	--	--	
				DRAIN: TD-2					
				INTEGRAL SUMP, SS WATER LINES					
F-1	ADA SINGLE LEVER LAVATORY FAUCET	AMERICAN STANDARD	RELIANT 7385007	2.5 GPM, VANDAL RESISTANT	1/2"	1/2"	--	--	3
		DELTA	501/520/523-WFHDF	POP-UP DRAIN, 4" CENTERS					
		ZURN	SIERRA Z-7440-VP	THERMOSTATIC MIXING VALVE					
F-2	HANDS FREE LAVATORY FAUCET	TOTO	TEL105-D10E	0.5 GPM, SELF-GENERATING	1/2"	1/2"	--	--	
				VALVE, GRID STRAINER, COVER PLATE					
F-3	ADA SINGLE LEVER KITCHEN FAUCET	AMERICAN STANDARD	2021.634	HAND SPRAY	1/2"	1/2"	--	--	3
		DELTA	400-WFELHHDF	CUP STRAINER DRAIN					
		MOEN	BANBURY 87017	2.5 GPM, 8" CENTERS					
F-4	ADA TWO-HANDLE WALL-MOUNT SINK FAUCET	DELTA	28T6443	SWING SPOUT	1/2"	1/2"	--	--	
		ZURN	Z-841H1	MOUNT ON BACKSPLASH					
		T&S	B-0290						
F-5	JANITOR'S SINK FAUCET	AMERICAN STANDARD	8344.112	VACUUM BREAKER, WALL BRACE,	3/4"	3/4"	--	--	
		FIAT	830-AA	PAIL HOOK, 30" HOSE WITH WALL					
		DELTA	28T9-AC	GRIP, MOP HANGER					
F-6	TUB TYPE SINK FAUCET	FIAT	A-1	DECK FAUCET	3/4"	3/4"	--	--	
				4" CENTERS					
F-7	HANDS FREE LAVATORY FAUCET	TOTO	TEL105-D10E	0.5 GPM, SELF-GENERATING	1/2"	1/2"	--	--	
				BATTERY, THERMOSTATIC					
				MIXING VALVE, GRID STRAINER					
DF-1	ADA WALL HUNG BI-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLING STATION	ELKAY	EXSTLDDWSVRLK	--	1/2"	--	2"	1-1/2"	3, 4
SH-1	48"x36" SHOWER BASE	AQUATIC	SB4836	WHITE CERAMIC BASE	--	--	2"	1-1/2"	8
				CENTER DRAIN					
SH-2	36"x36" SHOWER BASE	AQUATIC	SB3636	3" THRESHOLD, SHOWER VALVE: SV-1	--	--	2"	1-1/2"	8
				WHITE CERAMIC BASE					
				CENTER DRAIN					
				3" THRESHOLD, SHOWER VALVE: SV-1					
SV-1	SINGLE LEVER PRESSURE BALANCE SHOWER FAUCET	DELTA	T13H133	1.75 GPM	1/2"	1/2"	--	--	11
				CHROME FINISH					
				SHOWER VALVE					
FD-1	7" ROUND FLOOR DRAIN	WADE	1100STD	NICKEL BRONZE STRAINER	--	--	--	--	
		ZURN	Z-415	DEEP SEAL TRAP					
		SMITH	2005						
FS-1	8" SQUARE FLOOR SINK	WADE	9110	6-1/4" DEEP BODY, ENAMELED	--	--	--	--	
		ZURN	Z-1910	INTERIOR, SEDIMENT BUCKET,					
		SMITH	3100	NICKEL BRONZE RIM AND GRATE					
TD-1	TRENCH DRAIN	SMITH	9940-DCG-3	6" WIDE POLYPROPYLENE CHANNEL	--	--	4"	--	16
				w/COATED STEEL FRAME RADIOUSD BTM					
				9870-462-DGC DUCTILE IRON SLOTTED...					
TD-2	MINI-TRENCH DRAIN	ZURN	Z-664	6" WIDE 12" LONG, CAST IRON	--	--	--	--	
				WITH BOTTOM OUTLET, DOME					
				STRAINER, SLOTTED GRATE					
TD-3	LAUNDRY TRENCH DRAIN	H-M COPMANY	DRAIN TROUGH	POLYPROPYLENE BODY AND LID	--	--	2"	--	
				OMIT ALL SCREENS AND STRAINERS					
LT-1	SMALL BASKET-STYLE SOLIDS INTERCEPTOR	STRIEM	AA-S	12" WIDE x 12" DEEP, SIDE OUTLET	--	--	2"	--	
				35 GPM, POLYETHYLENE					
				1/8" DIAMETER SCREEN PERFORATIONS,					

WATER HEATER SCHEDULE						
EQUIPMENT MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	INPUT (BTU/H)	EFFICIENCY	RECOVERY (GPH)
VH-1	A.O. SMITH	BTH-199	100	199.0	0.96	261.0
GENERAL NOTES (APPLIES TO ALL ABOVE):						
A. PROVIDE ASME PRESSURE AND TEMPERATURE RELIEF VALVE.						
B. PROVIDE DIELECTRIC CONNECTIONS AT WATER HEATER.						
C. ALL WATER HEATERS 200 MBH OR LARGER SHALL HAVE ASME RATING.						
D. RESTROOM RECOVERY BASED ON 90 DEGREE TEMPERATURE RISE.						
E. PROVIDE CONDENSATE DRAIN FOR FLUE VENT CONDENSATE WITH A 2" TRAP. PROVIDE A CONDENSATE NEUTRALIZATION KIT FOR FLUE VENT CONDENSATE DRAIN.						



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ELECTRICAL MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS	
CONTROLS (TOP OF DEVICE)	48"
RECEPTACLES	18"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (GARAGES)	24"
RECEPTACLES (ABOVE COUNTER)	4" ABOVE BACKSPLASH/COUNTER
RECEPTACLES IN EQUIPMENT ROOMS	44"
DATA OUTLETS	SAME AS ADJACENT DEVICE, UNO
TELEVISION OUTLETS	REFER TO ARCH DRAWINGS
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.	
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.	
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
ABBREVIATIONS	
AD AF AFF AFG AHJ AIC AS AT ATS C CKT CT DEMO EC EM FCA FLA GC GEC G MCA MCB MCC MGB MLO MOCP N/A NF NL P PH/Ø PNLBD PROVIDE PT QTY RCPT RLA SCCR SD SF SPD ST SWBD SWGR TBB TGB TMGB UNO UPS VD VFD W	ACCESS DOOR AMPERE FRAME SIZE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE INTERRUPTING CAPACITY AMPERE SWITCH AMPERE TRIP SETTING AUTOMATIC TRANSFER SWITCH CONDUIT CIRCUIT CURRENT TRANSFORMER DEMOLITION ELECTRICAL CONTRACTOR EMERGENCY FAULT CURRENT AMPS AVAILABLE FULL LOAD AMPS GENERAL CONTRACTOR GROUNDING ELECTRODE CONDUCTOR GROUND MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN GROUNDING BUSBAR MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION NOT APPLICABLE NON-FUSED NIGHT LIGHT (24 HR ON) POLE PHASE PANELBOARD FURNISH AND INSTALL POTENTIAL TRANSFORMER QUANTITY RECEPTACLE RUNNING LOAD AMPS SHORT CIRCUIT CURRENT RATING SMOKE DETECTOR SQUARE FEET SURGE PROTECTION DEVICE SHUNT TRIP SWITCHBOARD SWITCHGEAR TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS GROUND BUSBAR TELECOMMUNICATIONS MAIN GROUND BUSBAR UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY VOLTAGE DROP VARIABLE FREQUENCY DRIVE WIRE
LINETYPE LEGEND	
	EXISTING TO REMAIN
	NEW WORK
	DEMOLISH

LIGHTING	
	LIGHT FIXTURE
	CENTER LINE INDICATES ARCHITECTURAL BASKET ORIENTATION, WHERE APPLICABLE
	ARROW INDICATES AIMING DIRECTION
	SUSPENDED LIGHT FIXTURE
	LIGHT FIXTURE CIRCUITED AS NIGHT LIGHT
	EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
	NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
	A = LIGHT FIXTURE TYPE a = LIGHT FIXTURE CONTROL 15 = CIRCUIT
	LIGHTING TRACK WITH LIGHT FIXTURE TYPES AS INDICATED
	EXTERIOR SITE PARKING LOT LIGHT FIXTURE WITH NUMBER OF HEADS INDICATED
	EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED
	EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING / WALL MOUNTED
	CEILING FAN
LIGHTING CONTROL DEVICES	
	SINGLE POLE SWITCH
	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.	
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

WIRING DEVICES & OUTLETS	
CIRCUIT DESIGNATION AS FOLLOWS: LP-1 - 5 LP-1 = ASSOCIATED PANEL 5 = CIRCUIT	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	GFCI DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	DOUBLE DUPLEX 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/DUPLEX WP = WEATHER PROOF COVER WR = WEATHER RESISTANT TR = TAMPER RESISTANT TV = TELEVISION 60" = MOUNTING HEIGHT TO CENTER OF DEVICE	
	TOGGLE DISCONNECT SWITCH, RATING AS INDICATED
	TELEPHONE OUTLET
	DATA OUTLET
	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
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

NURSE CALL	
	NURSE CALL MASTER STATION
	NURSE CALL ANNUNCIATION PANEL
	NURSE CALL SWITCH PANEL
	NURSE CALL ROOM STATUS CORRIDOR LIGHT - WALL MOUNT
	NURSE CALL ROOM STATUS CORRIDOR LIGHT - CEILING MOUNT
	NURSE CALL CORRIDOR LIGHT - WALL MOUNT
	NURSE CALL CORRIDOR LIGHT - CEILING MOUNT
	NURSE CALL PATIENT STATION - SINGLE CALL CORD
	NURSE CALL PATIENT STATION - DOUBLE CALL CORD
	NURSE CALL DUTY STATION
	NURSE CALL EMERGENCY STATION - PULL CORD
	NURSE CALL EMERGENCY STATION - PUSH BUTTON
	NURSE CALL CODE BLUE STATION
SECURITY	
COMMUNICATION	

ELECTRICAL ONE-LINE & RISER DIAGRAM	
	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)
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. 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. REFER TO TELECOMMUNICATION DRAWINGS FOR DATA REQUIREMENTS.
- P. 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.
- Q. 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.
- R. GROUND FAULT INTERRUPTER RECEPTACLES SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.8 OF THE 2017 NEC.
- S. ARC FAULT INTERRUPTER PROTECTION SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.12 OF THE 2017 NEC.
- T. 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

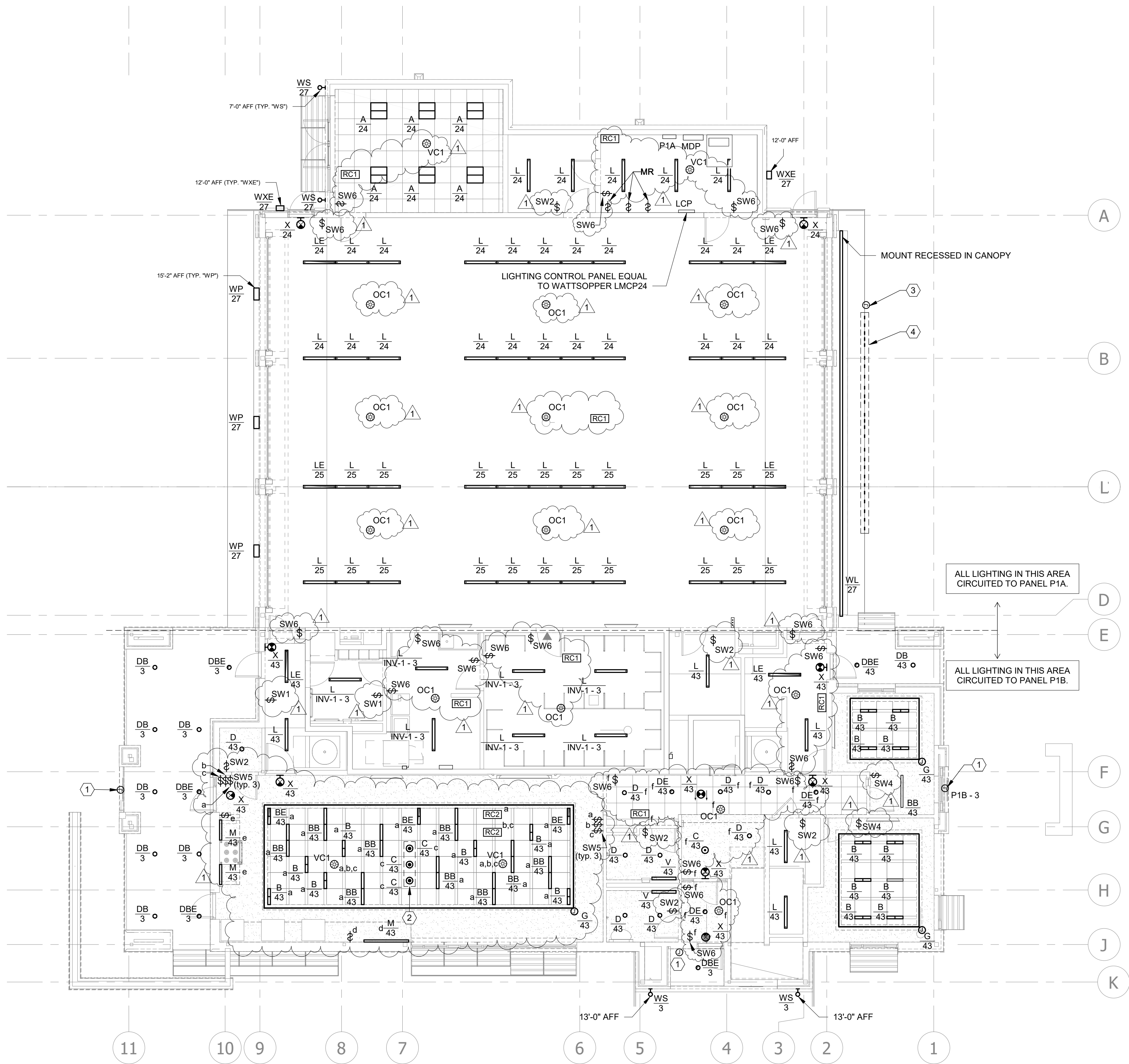
E

D

C

B

A



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

ALL LIGHTING IN THIS AREA
CIRCUITED TO PANEL P1A.

ALL LIGHTING IN THIS AREA
CIRCUITED TO PANEL P1B.

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.



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FIRST FLOOR
LIGHTING RCP

E101

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A1 FIRST FLOOR LIGHTING RCP

1/8" = 1'-0"



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LIGHTING PLAN NOTES:

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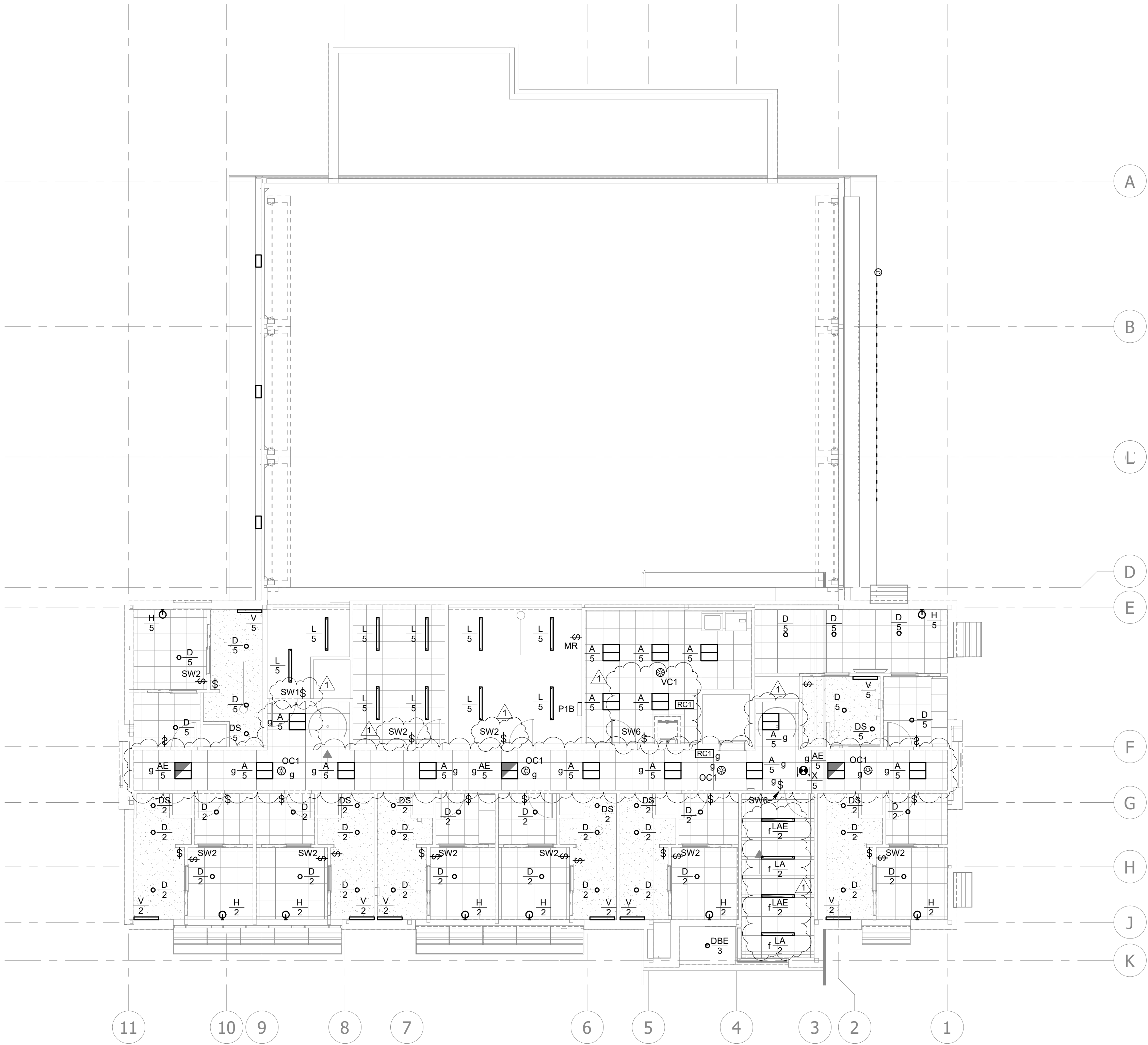
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SECOND FLOOR
LIGHTING RCP

E102

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1 SECOND FLOOR LIGHTING RCP
1/8" = 1'-0"
0 4' 8' 16'

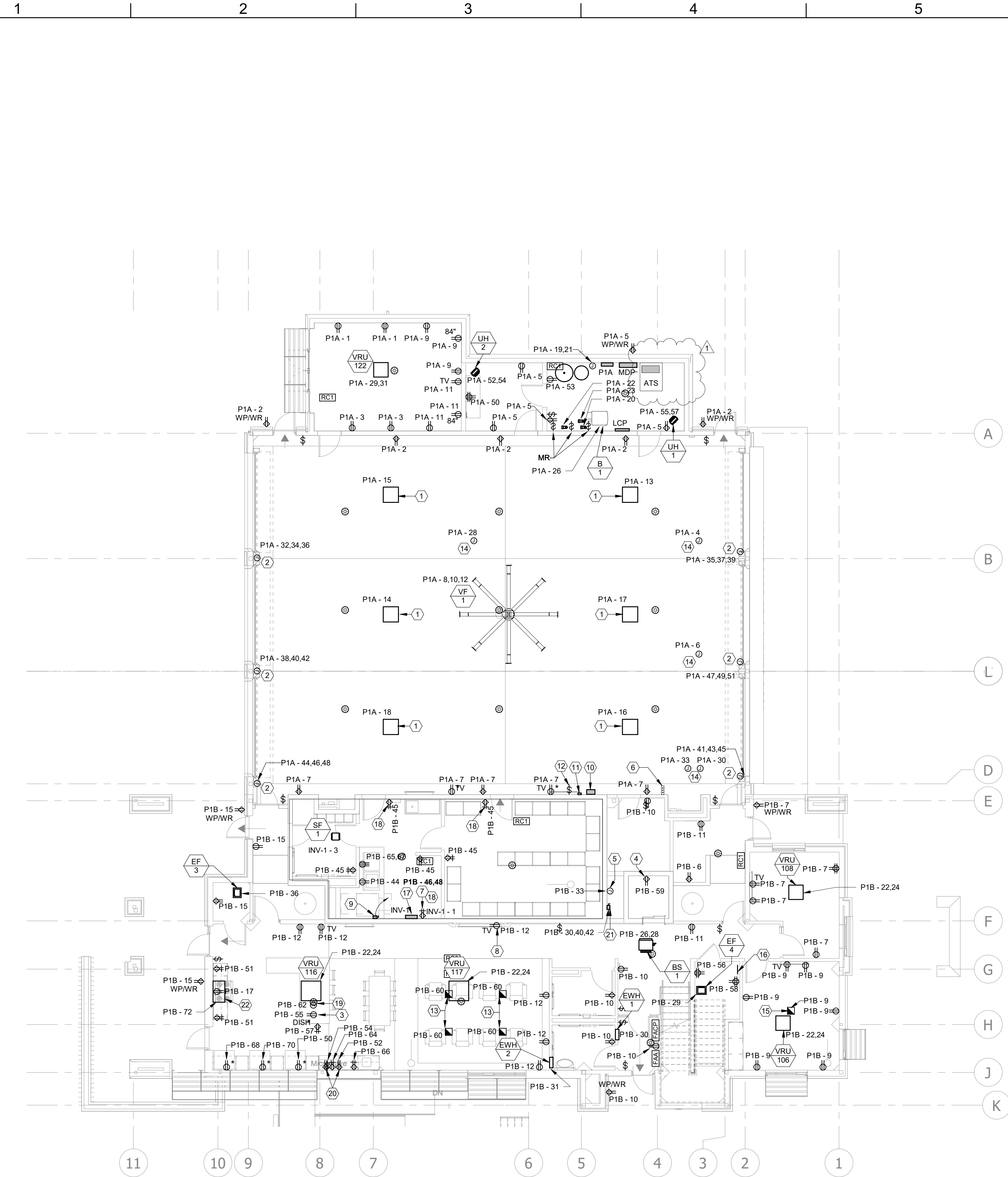
E

D

C

B

A



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

- ELECTRICAL PLAN NOTES:**
- 1 REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR AIR-VAC SYSTEM DETAILS.
 - 2 J-BOX INSTALLED FOR POWER TO AUTOMATIC GARAGE DOOR. COORDINATE EXACT LOCATION WITH GARAGE DOOR MOTOR INSTALLATION.
 - 3 RECEPTACLE INSTALLED UNDER COUNTER FOR DISHWASHER. ROUTE HOMERUN BELOW SLAB TO NEAREST WALL, THEN UP TO ABOVE CEILING.
 - 4 GFCI RECEPTACLE INSTALLED IN ELEVATOR PIT.
 - 5 J-BOX INSTALLED FOR ELEVATOR LIGHTING.
 - 6 GARAGE DOOR CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH IN.
 - 7 PROVIDE RED COLORED RECEPTACLE FOR EMERGENCY. POWERED FROM THE INVERTER.
 - 8 MOUNT TV RECEPTACLE IN WALL FURRING.
 - 9 240V/2P/30A FUSIBLE DISCONNECT IN NEMA 1 ENCLOSURE. PROVIDE FUSES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
 - 10 AIR-VAC SYSTEM CONTROLLER. REFER MECH.
 - 11 MULTI-GAS DETECTION SYSTEM. REFER MECH.
 - 12 VF-1 FAN CONTROLLER. REF. MECH.
 - 13 TYPE A: SINGLE GANG RECEPTACLE FLOOR BOX, REFER TO SPECS.
 - 14 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.
 - 15 TYPE B: TWO GANG RECEPTACLE/DATA FLOOR BOX, REFER TO SPECS. ROUTE 1-1/2" CONDUIT FROM FLOOR BOX UP INTO WALL FOR AVIT NEEDS.
 - 16 PROVIDE GROUNDING BAR IN TEL/RADIO. REFER TO SPECIFICATIONS AND DETAILS FOR MORE INFORMATION.
 - 17 STORM SHELTER INVERTER. REFER TO SPECS.
 - 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 ES1T2R2GF1_N.
 - 22 PROVIDE FIRE SUPPRESSION SYSTEM WITHIN THE RANGE HOOD TYPICAL OF GUARDIAN MODEL #G300B. 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.

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**FIRST FLOOR
POWER PLAN**

E201

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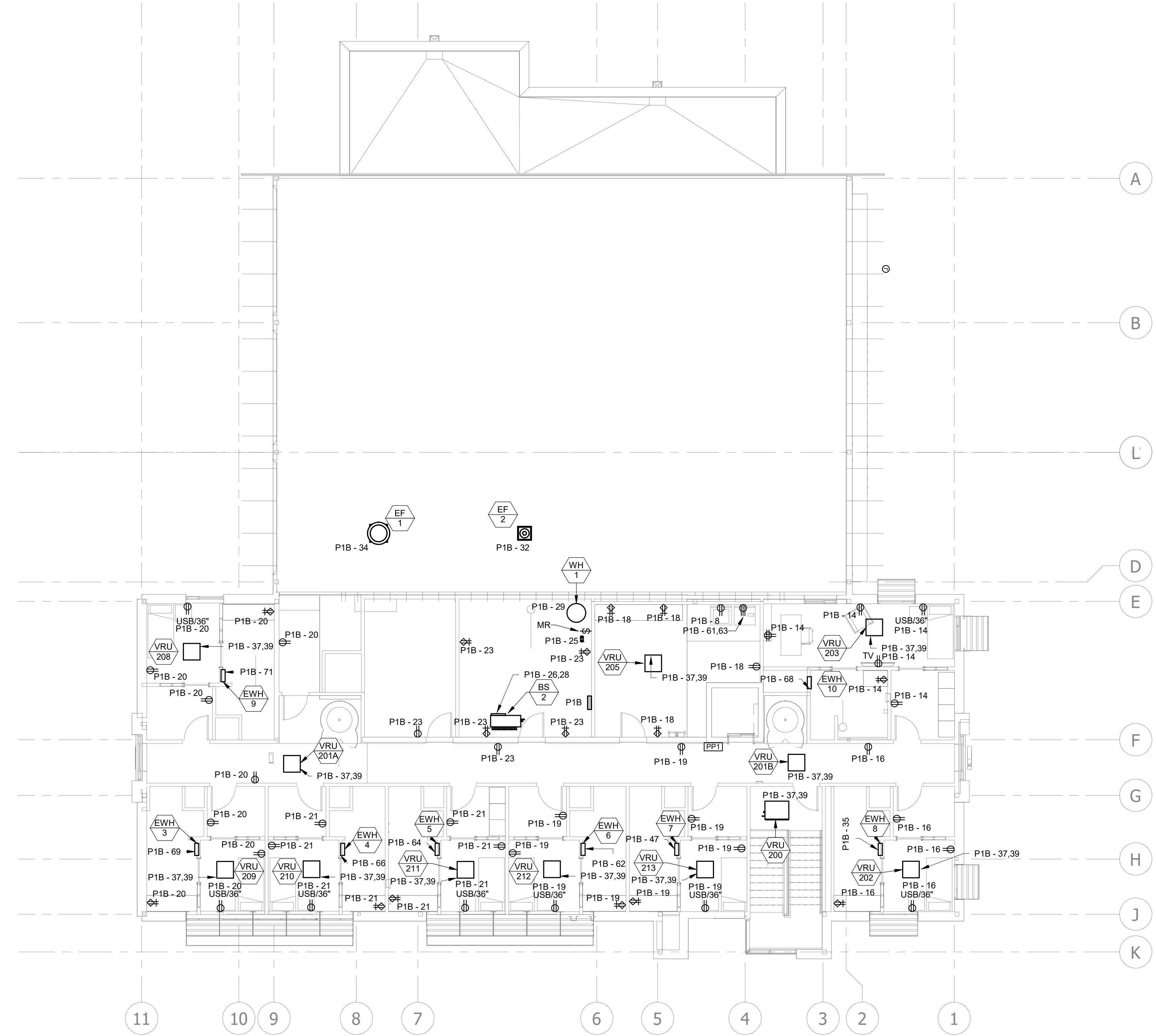
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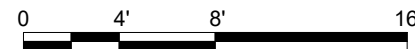
SECOND FLOOR
POWER PLAN

E202

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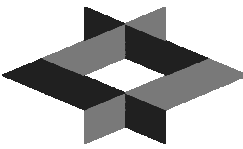
A1 SECOND FLOOR POWER PLAN
1/8" = 1'-0"



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- 1 PROVIDE KNOX BOX.



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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64064

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

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PROJECT NO: 18225R21001

DATE: 10.20.2022

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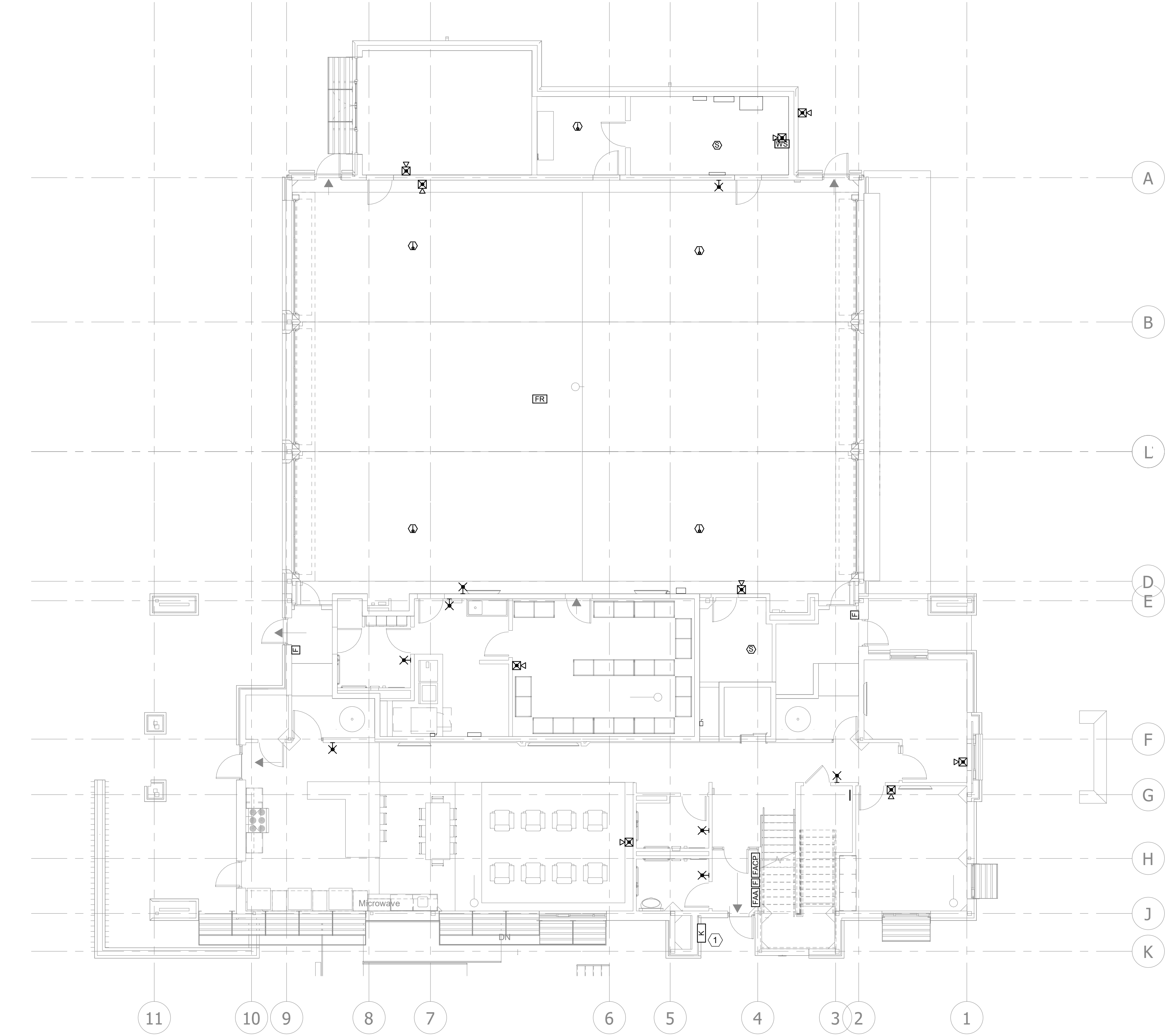
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**FIRST FLOOR
FIRE ALARM
PLAN**

E401

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



SYSTEM INPUTS									
MANUAL PULL STATIONS	AL	SU	TR	RE	SI	AC	AC	SH	SH
AREA SMOKE DETECTORS	●			●	●	●			●
DUCT SMOKE DETECTORS		●			●			●	●
SPRINKLER VALVE TAMPER		●			●				●
SPRINKLER WATER FLOW					●				
FIRE ALARM CONTROL PANEL LOSS OF POWER	●				●		●		●
FIRE ALARM OPEN CIRCUIT			●	●	●				
FIRE ALARM GROUND FAULT			●	●	●				
FIRE ALARM SHORT CIRCUIT			●	●	●				

① FIRE ALARM SEQUENCE OF OPERATIONS
1/8" = 1'-0"

ELECTRICAL PLAN NOTES:



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SECOND FLOOR FIRE ALARM PLAN

E402

FILE PATH: BIM 360://18225R21001_LeeSummitFireStation_#4 and #5/LSMO FIRE STATION 5_MEF_V19.rvt

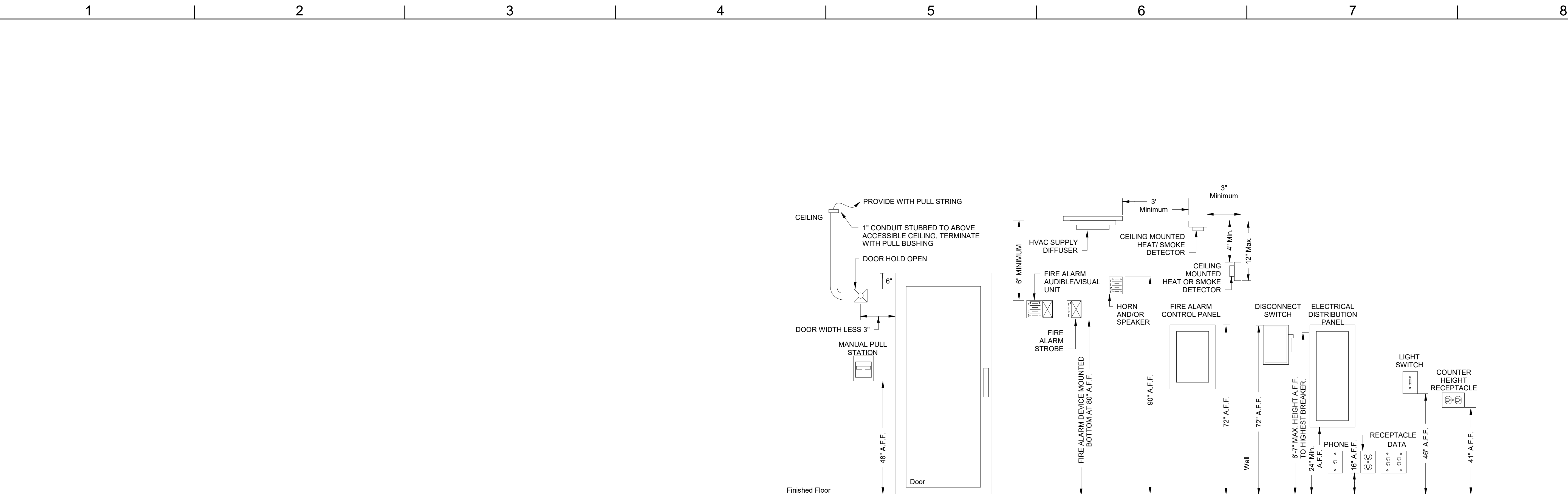
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D

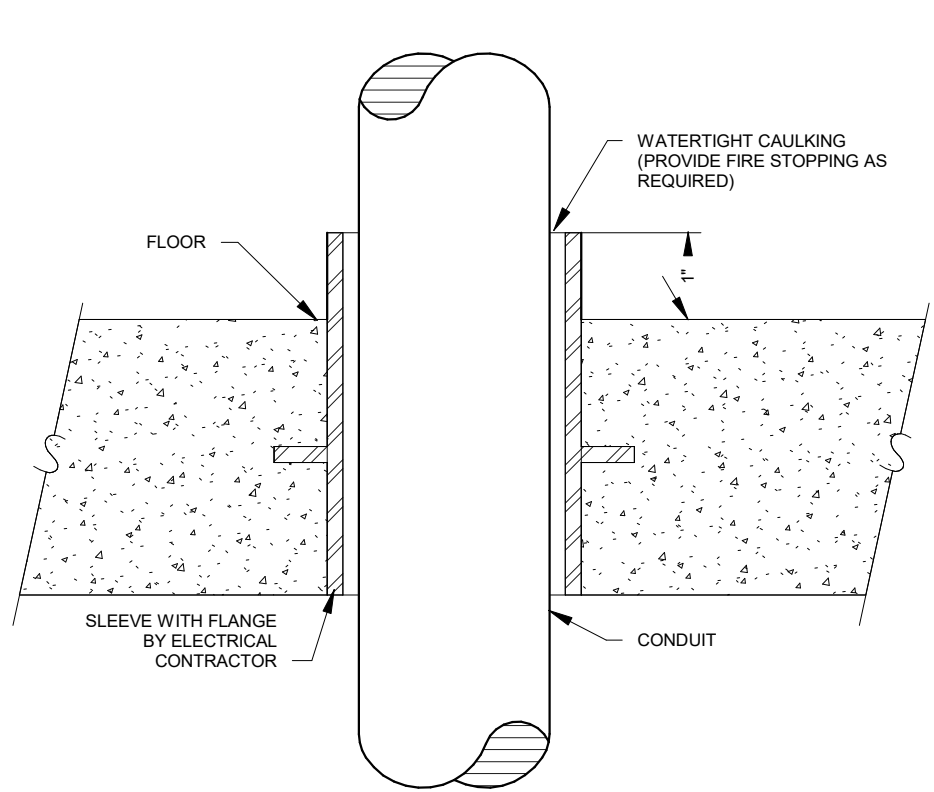
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B

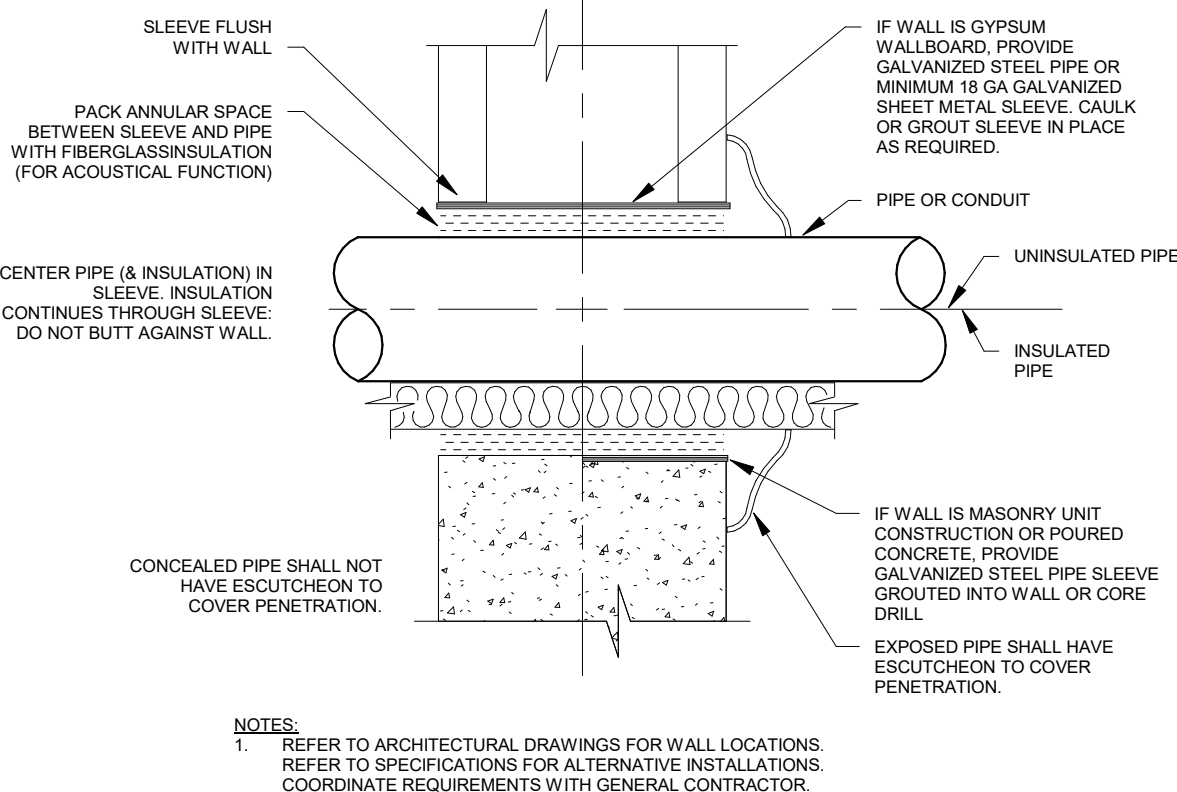
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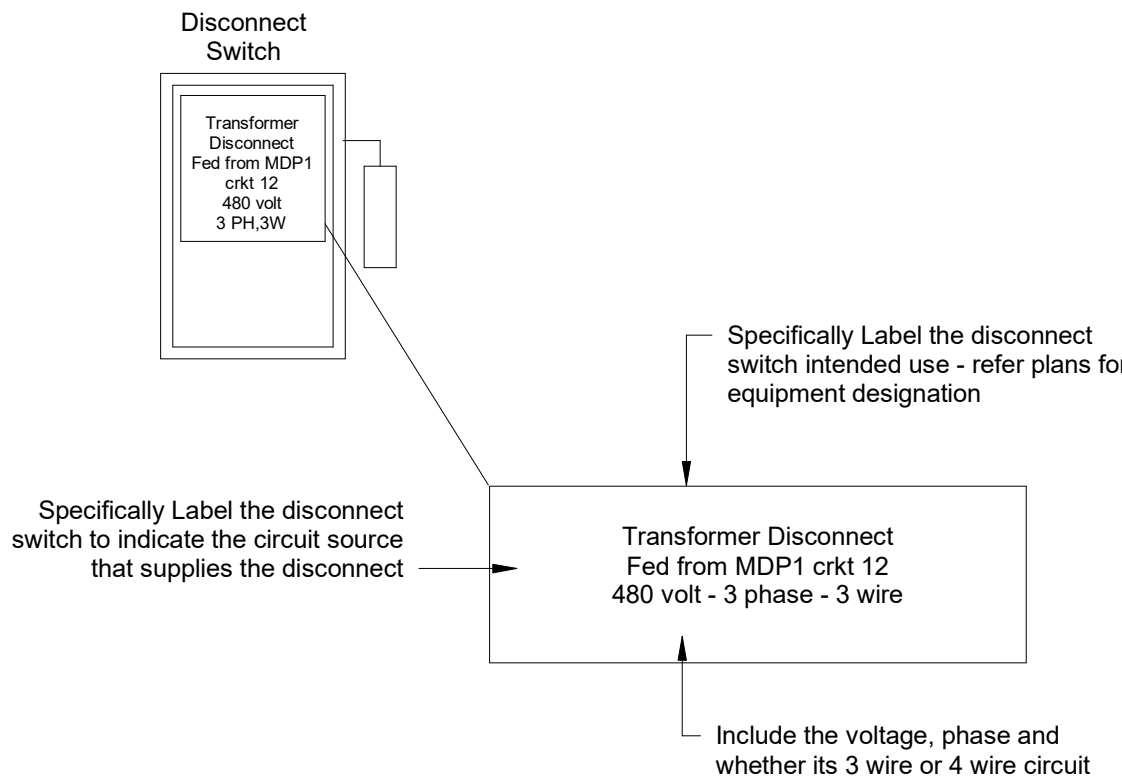
C4 STANDARD MOUNTING HEIGHTS
NOT TO SCALE



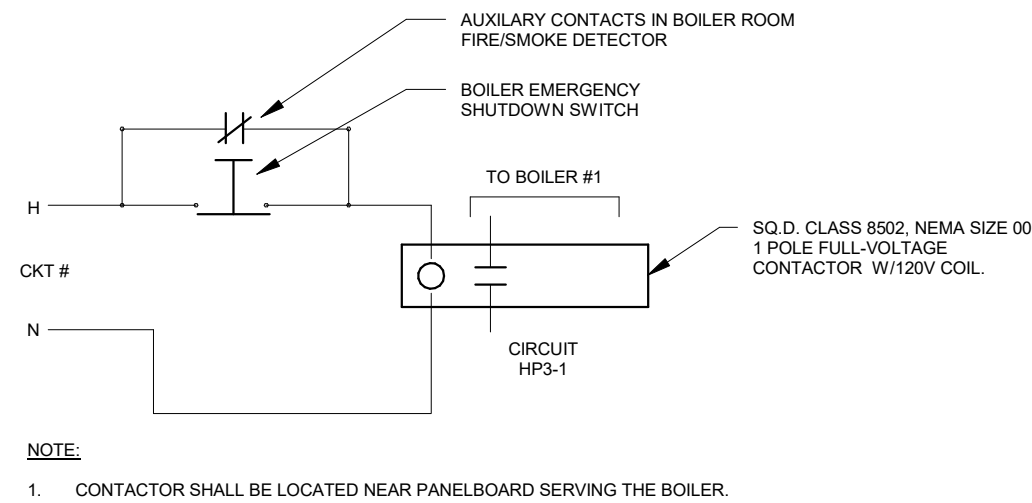
B1 CONDUIT PENETRATION THROUGH FLOOR
NOT TO SCALE



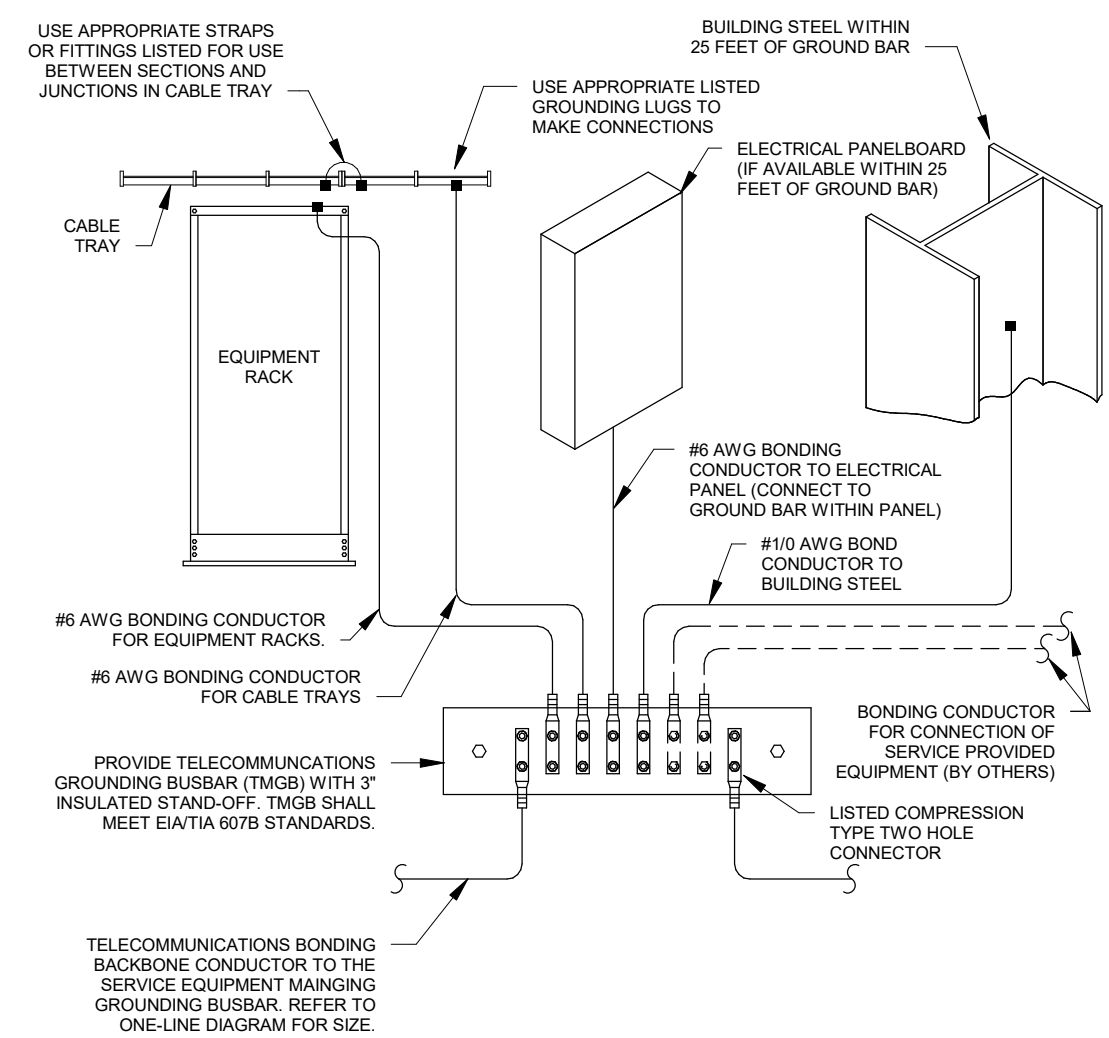
B2 CONDUIT PENETRATION THROUGH NON-FIRE RATED WALL
NOT TO SCALE



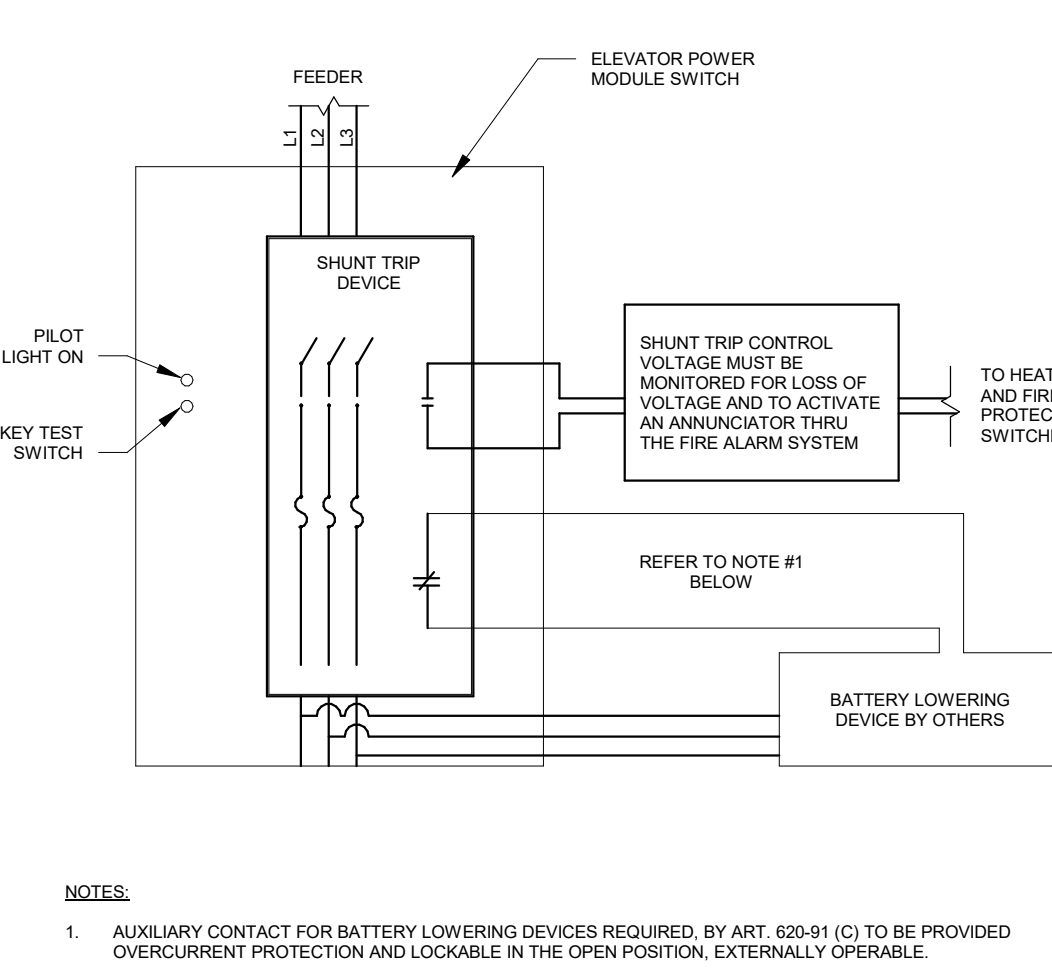
B4 DISCONNECT LABELING
NOT TO SCALE



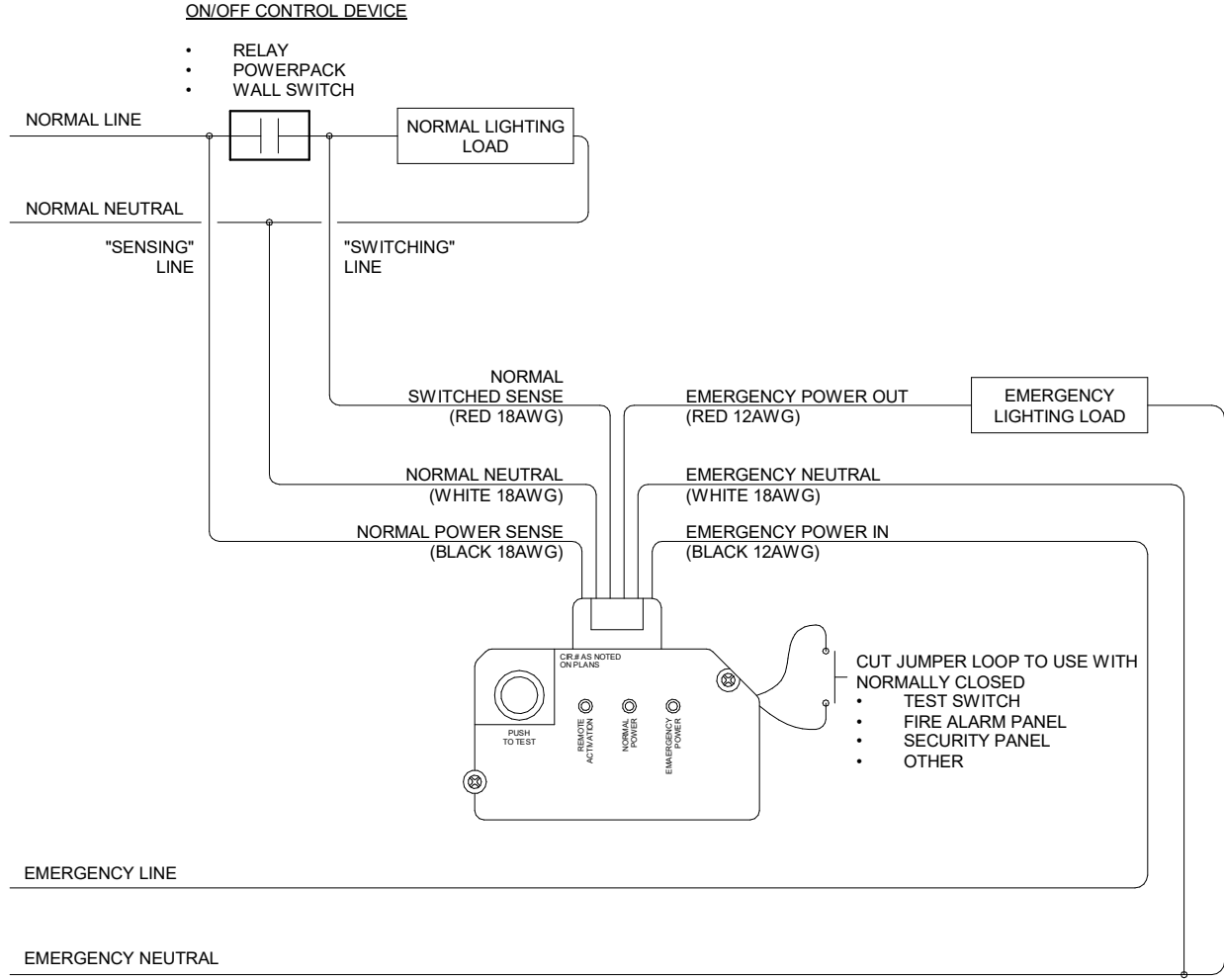
B6 EMERGENCY BOILER SHUTDOWN DETAIL
NOT TO SCALE



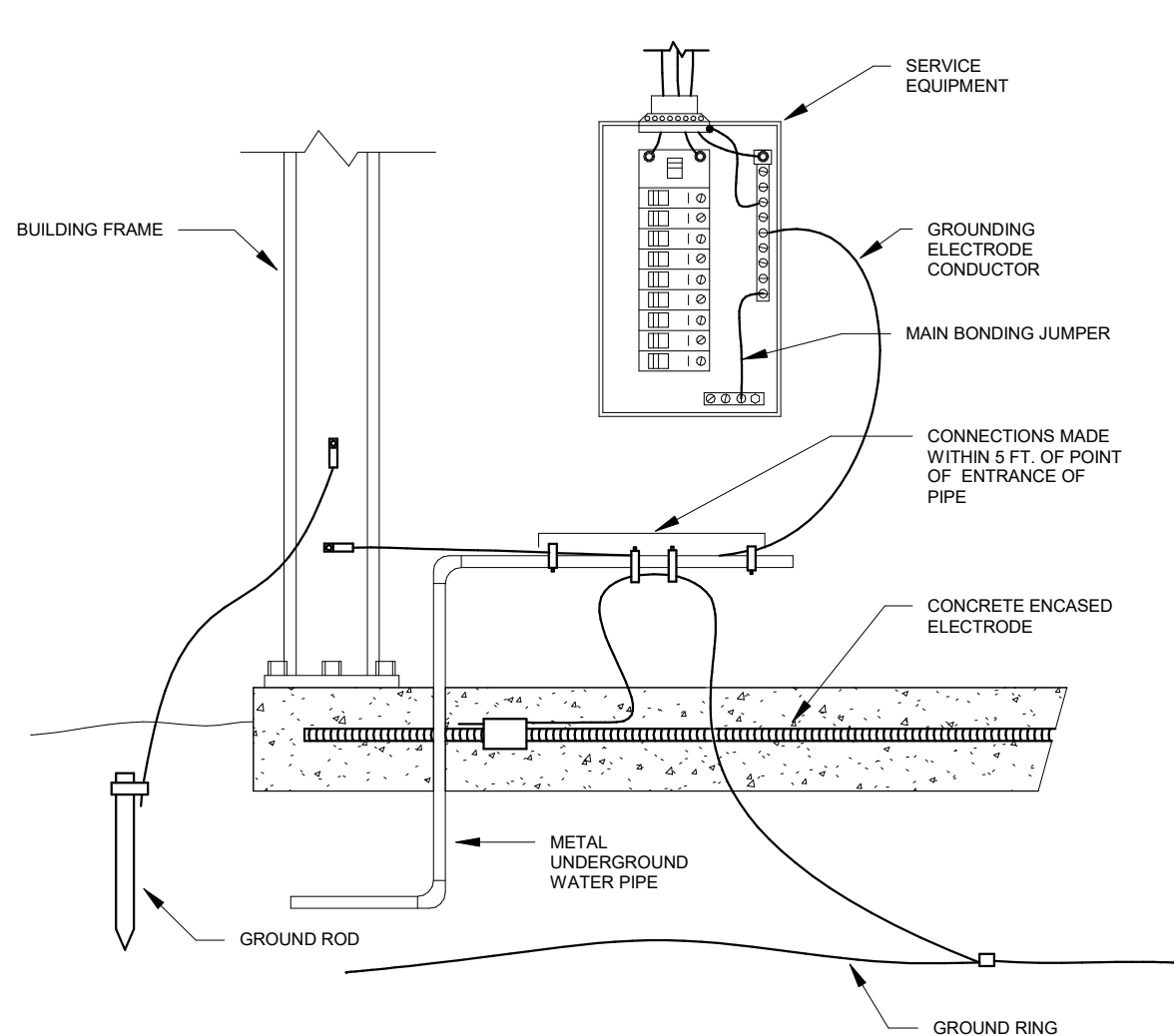
A1 TMGB CONNECTION DETAIL
NOT TO SCALE



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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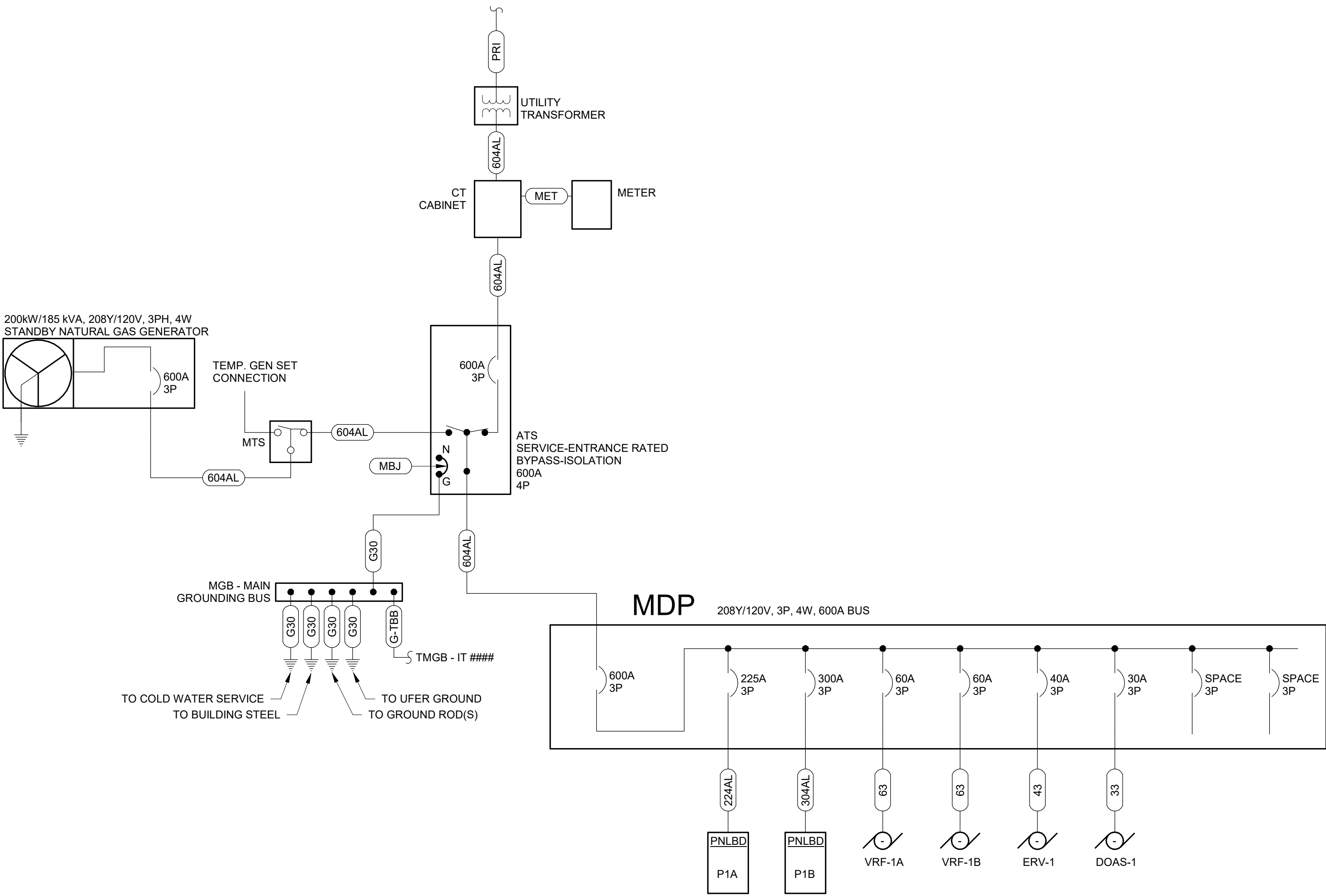
E

D

C

B

A



A3 ELECTRICAL ONE-LINE DIAGRAM
NOT TO SCALE

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 SSB, 0.75" C
63	60 A, (3) #6, (1) #10 G, 1" C
64	60 A, (3) #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 SSB, 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) #1/0, (1) #6 G, 1.5" C
154	150 A, (4) #1/0, (1) #6 G, 1.5" C
154T	150 A, (4) #1/0, (1) #6 SSB, 1.5" C
173	175 A, (3) #2/0, (1) #6 G, 1.5" C
174	175 A, (4) #2/0, (1) #6 G, 1.5" C
203	200 A, (3) #3/0, (1) #6 G, 2" C
204	200 A, (4) #3/0, (1) #6 G, 2" C
223	225 A, (3) #4/0, (1) #4 G, 2.5" C
224	225 A, (4) #4/0, (1) #4 G, 2.5" C
224AL	225 A, (4) 300kcmil, (1) #2 G, 3" C (ALUMINUM)
224T	225 A, (4) #4/0, (1) #2 SSB, 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) #3/0, #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) #3/0, (1) #3 G, 2" C
404	400 A, (2) sets of (4) #3/0, (1) #3 G, 2" C
404T	400 A(2) sets of (4) #3/0, (1) #1/0 SSB, 2.5" C
503	500 A, (2) sets of (3) 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) #2/0 G, 3" C (ALUMINUM)
604T	600 A, (2) sets of (4) 350kcmil, (1) #2/0 SSB, 3" C
704	700 A, (2) sets of (4) 500kcmil, (1) #1/0 G, 3" C
803	800 A, (3) sets of (3) 300kcmil, (1) #1/0 G, 3" C
804	800 A, (4) sets of (3) 300kcmil, (1) #1/0 G, 3" C
804S	800 A, (4) sets of (3) 300kcmil, 3" C
1004	1000 A, (3) sets of (4) 400kcmil, (1) #2/0 G, 3" C
1204	1200 A, (4) sets of (4) 350kcmil, (1) #3/0 G, 3" C
1604	1600 A, (5) sets of (4) 400kcmil, (1) #4/0 G, 3" C
2504	2500 A, (8) sets 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	#1/0 COPPER GROUND, 1" C
G20	#2/0 COPPER GROUND, 1" C
G30	#3/0 COPPER GROUND, 1" C
G-TBB	250kcmil G, 1.5" PVC
MBJ	MAIN BONDING JUMPER, #3/0 COPPER GROUND
MET	1.25" C WITH PULL WIRE. GROUND METER PER UTILITY STANDARDS.
PRI	4" C WITH PULL TAPE. PRIMARY UTILITY SERVICE FEEDER. COORDINATE ALL REQUIREMENTS WITH UTILITY.



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ELECTRICAL
ONE-LINE
DIAGRAM

E502

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E

D

C

B

A

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

LIGHT FIXTURE SCHEDULE

FIXTURE TAG	MANUFACTURER	MODEL	EQUIVALENT MANUFACTURER	LIGHT SOURCE				DIMMING TYPE	MOUNTING TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
				TYPE	LUMENS	COLOR TEMP	CRI							
A	HE WILLIAMS	AT1-22-L40/830-D-DIM-UNV		LED	3000	3000 K	80	0-10V	RECESSED	120	37	41	2X2 RECESSED TROFFER	1
AE	HE WILLIAMS	AT1-22-L40/830-D-EM/10W-DIM-UNV		LED	3000	3000 K	80	0-10V	RECESSED	120	37	41	2X2 RECESSED TROFFER WITH INTERGRAL EMERGENCY BATTERY	1,3
B	HE WILLIAMS	LRX4F-2-L8/830-DMA-DIM-UNV		LED	1600	3000 K	80	0-10V	RECESSED	120	13	15	2' RECESSED STRIP FIXTURE	1
BB	HE WILLIAMS	LRX4F-4-L8/830-DMA-DIM-UNV		LED	3200	3000 K	80	0-10V	RECESSED	120	27	30	4' RECESSED STRIP FIXTURE	1
BE	HE WILLIAMS	LRX4F-2-L8/830-EM/10W-DMA-DIM-UNV		LED	1600	3000 K	80	0-10V	RECESSED	120	13	15	2' RECESSED STRIP FIXTURE WITH INTERGRAL EMERGENCY BATTERY	1
C	HE WILLIAMS	6CR-TL-L10/830-DIM-UNV-OM		LED	1000	3000 K	80	0-10V	PENDANT	120	9	10	DECORATIVE PENDANT TBD	1,6,7
D	HE WILLIAMS	4DR-TL-L10/830-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT	1
DB	HE WILLIAMS	6DR-TL-L10/830-ATH-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	6" RECESSED DOWNLIGHT WEATHER RATED	1,2
DBE	HE WILLIAMS	6DR-TL-L10/830-EM/10W-ATH-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	6" RECESSED DOWNLIGHT WEATHER RATED WITH INTERGRAL COLD WEATHER EMERGENCY BATTERY	1,2,4
DE	HE WILLIAMS	4DR-TL-L10/830-EM/10W-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT WITH INTERGRAL EMERGENCY BATTERY	1
DS	HE WILLIAMS	4DR-TL-L10/830-DIM-UNV-SW-OF-WH-A D		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT SHOWER RATED	
F	BEGA	84 457 - NON-SKID LENS		LED	3211	3000 K	80	--	IN-GRADE	120	34	38	CAST-IN PLACE IN-GRADE FLAGPOLE FIXTURE	2,4,7
G	ACCLAIM LIGHTING	FLEXOSI35		LED	232	3000 K	95	0-10V	CHANNEL	120	3	3	LED TAPELIGHT WITH 45 DEG CHANNEL. LUMENS PER LINEAR FOOT. WATTAGE PER LINEAR FOOT	1,8,9
H	ARTEMIDE	SKOPOS		LED	72	3000 K	80	--	WALL MOUNT	120	1	1	WALL MOUNT FLEXABLE DESK LIGHT	
L	HE WILLIAMS	75L-4-L38/830-DMA-ACF-DIM-UNV		LED	3800	3000 K	80	0-10V	SUSPENDE D	120	31	35	4' LENSED SUSPENDED STRIP FIXTURE	
LA	FOCAL POINT	FSM4LS-BW-625F-30K-1C-UNV-LD1-C2 4		LED	2500	3000 K	80	0-10V	SUSPENDE D	120	22	24	4' SUSPENDED LINEAR	
LAE	FOCAL POINT	FSM4LS-BW-625F-30K-1C-UNV-LD1-C2 4-1EM		LED	2500	3000 K	80	0-10V	SUSPENDE D	120	22	24	4' SUSPENDED LINEAR WITH INTERGRAL EMERGENCY BATTERY	3
LE	HE WILLIAMS	75L-4-L38/830-EM/10W-DMA-ACF-DIM-UNV		LED	3800	3000 K	80	0-10V	SUSPENDE D	120	31	35	4' LENSED SUSPENDED STRIP FIXTURE WITH INTERGRAL EMERGENCY BATTERY	
M	TASK LIGHTING	SA9Q-F30		LED	200	3000 K	80	0-10V		120	2	2	UNDERCABINET LINEAR FIXTURE. LUMENS PER FOOT, WATTS	
S1	LITHONIA	DSX1 LED P4 30K T4M MVOLT		LED	13165	3000 K	80	--	POLE	120	125		POLE MOUNTED SITE LIGHTING FIXTURE	
V	HUBBELL	3L-W-ID-LPA-3-03-SOF-30K-I030-D030-UNV		LED	900	3000 K	80	0-10V	WALL MOUNT	120	6	7	VANITY LIGHT TBD	1
WL	MICROLINEA	ML3WLASY-D-CO(628LPF)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 30K 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
X	H.E. WILLIAMS	EXIT-R-EM-WHT-SDT		LED					UNIVERSAL	120				3,5

NOTES:

1. PROVIDE FIXTURE WITH DIMMABLE DRIVER.
2. PROVIDE FIXTURE WITH COLD WEATHER DRIVER.
3. PROVIDE FIXTURE WITH EMERGENCY DRIVER.
4. PROVIDE FIXTURE WITH COLD WEATHER EMERGENCY DRIVER.
5. PROVIDE NUMBER OF FACES AND DIRECTIONAL ARROWS TO MATCH WHAT IS SHOWN ON DRAWINGS.
6. MOUNT FIXTURE 6'-4" ABOVE FINISHED GRADE.
7. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
8. PROVIDE CONTINUOUS RUN LENGTHS AS SHOWN ON PLANS.
9. MOUNT WITHIN ARCHITECTURAL SOFFIT WHERE SHOWN. REFER TO ARCHITETUARAL PLAN FOR SOFFIT DETAILS.

GENERAL NOTES:

- 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.

LIGHTING DEVICE SCHEDULE

DEVICE TAG	MANUFACTURER	MODEL	DESCRIPTION	DIMMING	ON MODE	SENSOR		TIME DELAY	MAX LOAD	MOUNTING TYPE	VOLTAGE	NOTES
						SENSOR TYPE						
SW6	WATTSTOPPER	LMSW-102	LOW VOLTAGE ON/OFF WALL SWITCH (2 BUTTON)	--						WALL	24	
AUXILIARY DEVICES												
RC1	WATTSTOPPER	LMRC-10X	2 ZONE CEILING PLENUM ROOM CONTROLLER	--					0 A	PLENUM	120	
RC2	WATTSTOPPER	LMRC-11X	2 ZONE CEILING PLENUM ROOM CONTROLLER WITH DIMMING CAPABILITIES	0-10V					10 A	PLENUM	120	
CEILING-MOUNTED OCCUPANCY SENSOR												
OC1	WATTSTOPPER	DT-300	LOW VOLTAGE CEILING MOUNTED DUAL TECH SENSOR IN OCCUPANCY MODE							CEILING	24	
VC1	WATTSTOPPER	DT-300	LOW VOLTAGE CEILING MOUNTED DUAL TECH SENSOR IN VACANCY MODE							CEILING	24	
OCCUPANCY SENSOR SWITCH												
SW1	WATTSTOPPER	DW-100	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN OCCUPANCY MODE	--					0 A	WALL	120	
SW2	WATTSTOPPER	DW-100	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN VACANCY MODE	--					0 A	WALL	120	
SW4	WATTSTOPPER	DW-311	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN VACANCY MODE WITH DIMMING CAPABILITIES	0-10V					0 A	WALL	120	
WALL SWITCHES												
SW5	WATTSTOPPER	LMSW-105	LOW VOLTAGE WALL SWITCH WITH DIMMING CAPABILITIES (5 BUTTON)	0-10V						WALL	24	

GENERAL CONTROL NOTES:

- A. AUTO ON (OCCUPANCY MODE): LOAD TURNS ON AND OFF AUTOMATICALLY BASED ON OCCUPANCY. IF LOAD IS TURNED OFF MANUALLY, LOAD REMAINS OFF UNTIL 5 MINUTES AFTER OCCUPANT DETECTION. IT THEN REVERTS TO AUTO ON MODE.
- B. MANUAL ON (VACANCY MODE): OCCUPANT MUST MANUALLY PRESS ON/OFF BUTTON TO ENERGIZE THE LOAD. LOAD REMAINS ENERGIZED UNTIL NO MOTION IS DETECTED FOR THE SELECTED TIME DELAY.

GENERAL NOTES:

- A. PROVIDE ALL REQUIRED WIRING FOR A COMPLETE INSTALLATION. REFERENCE MANUFACTURER'S WIRING DIAGRAMS FOR ALL REQUIRED WIRING.
- B. DUAL TECHNOLOGY SENSORS OCCUPANCY LOGIC SHALL BE SELECTED FOR DETECTION BY EITHER TECHNOLOGY AND SHOULD ONLY REQUIRE ONE FOR INITIAL AND MAINTAINED OCCUPANCY AND RETRIGGER WHEN OPTION IS AVAILABLE.
- C. PROVIDE TWO DIGITAL WIRELESS CONFIGURATION TOOLS. WATTSTOPPER MODEL LMCT-100.
- D. COORDINATE FINISHES WITH ARCHITECT/OWNER PRIOR TO ORDERING ALL CONTROL DEVICES.
- E. ALL SENSORS IN CORRDORS SHALL BE SET TO EXTNEDED CORRIDOR DETECTION.

NOTES:

1. THIS SWITCH SHALL BE PROGRAMED WITH THE FOLLOWING SCENES. COORDINATE FINALE SCHENE WITH OWNER PRIOR TO COMMISSIONING:
 - PADDLE: ALL ON/OFF 50% BY DEFAULT. ALL DIM UP/DOWN.
 - BUTTON 1: ALL 100%
 - BUTTON 2: ALL 75%
 - BUTTON 3: ALL 50%
 - BUTTON 4: ALL 25%
2. THIS SWITCH SHALL BE PROGRAMED WITH THE FOLLOWING SCENES. COORDINATE FINALE SCHENE WITH OWNER PRIOR TO COMMISSIONING:
 - PADDLE: ALL ON/OFF 50% BY DEFAULT
 - BUTTON 1: ALL DIM UP
 - BUTTON 2: ALL DIM DOWN
3. THIS SWITCH SHALL BE PROGRAMED WITH THE FOLLOWING SCENES. COORDINATE FINALE SCHENE WITH OWNER PRIOR TO COMMISSIONING:
 - BUTTON 1: ALL ON
 - BUTTON 2: ALL OFF
4. THIS SWITCH SHALL BE PROGRAMED WITH THE FOLLOWING SCENES. COORDINATE FINALE SCHENE WITH OWNER PRIOR TO COMMISSIONING:
 - BUTTON 1: ALL ON/OFF



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100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
1	AS 01	11/16/2022



NEIL BARTLEY - ENGINEER
MO# PE-2007023868

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PROJECT NO: 18225R21001

DATE: 10.20.2022

DRAWN BY: JL

CHK'D BY: NB

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ELECTRICAL SCHEDULES

E600

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E

D

C

B

A

PANELBOARD: P1A																			
LOCATION: UTILITY 120							VOLTS/PHASE 208Y/120V, 3Ph, 4W							EQUIPMENT GROUND BUS					
FED FROM: MDP							MIN AIC RATING: 22 kAIC												
MOUNTING: SURFACE							BUS AMPS: 225 A												
MAIN LUG RATING: 225 A																			
CKT	LOAD DESCRIPTION	WIRE SIZE	GND SIZE	TYPE	BKR AMP	P	A		B		C		P	BKR AMP	TYPE	GND SIZE	WIRE SIZE	LOAD DESCRIPTION	CKT
1	NORTH EXERCISE RECEPTACLES				20 A	1	360	900					1	20 A				NORTH WALL APP. BAY...	2
3	SOUTH EXERCISE RECEPTACLES				20 A	1			360	500			1	20 A				DROP CORD RECEPTACLES	4
5	UTILITY AND SHOP...				20 A	1					900	500	1	20 A				DROP CORD RECEPTACLES	6
7	SOUTH WALL APP. BAY...				20 A	1	900	828					3	15 A				APP. BAY VENT FAN (VF-1)	8
9	RECEPTACLE EXERCISE /...				20 A	1			540	828			--	--	--	--	--	--	10
11	RECEPTACLE EXERCISE /...				20 A	1					540	828	--	--	--	--	--	--	12
13	NORTHWEST APP. EXHASUT FAN				20 A	1	1560	1560					1	20 A				EAST APP. EXHASUT FAN	14
15	NORTHEAST APP. EXHASUT FAN				20 A	1			1560	1560			1	20 A				SOUTHWEST APP. EXHASUT FAN	16
17	WEST APP. EXHASUT FAN				20 A	1					1560	1560	1	20 A				SOUTHEAST APP. EXHASUT FAN	18
19	AIR COMPRESSOR				60 A	2	2912	90					1	20 A				HOT WATER PUMP 2	20
21	--	--	--	--	--	--			2912	90			1	20 A				HOT WATER PUMP 3	22
23	HOT WATER PUMP 1				20 A	1					110	1195	1	20 A				UTILITY, SHOP, EXER., APP. BA...	24
25	SOUTH APPARATUS BAY...				20 A	1	763	420					1	20 A				BOILER	26
27	OUTDOOR LIGHTING				20 A	1			504	500			1	20 A				DROP CORD RECEPTACLES	28
29	EXERCISE VRU				15 A	2					52	500	1	20 A				DROP CORD RECEPTACLES	30
31	--	--	--	--	--	--	52	1320					3	30 A				EAST BAY DOOR 1 - 3hp	32
33	DROP CORD RECEPTACLES				20 A	1			500	1320			--	--	--	--	--	--	34
35	WEST BAY DOOR 1 - 5hp				35 A	3					2100	1320	--	--	--	--	--	--	36
37	--	--	--	--	--	--	2100	1320					3	20 A				EAST BAY DOOR 2 - 3hp	38
39	--	--	--	--	--	--			2100	1320			--	--	--	--	--	--	40
41	WEST BAY DOOR 2 - 5hp				35 A	3					2100	1320	--	--	--	--	--	--	42
43	--	--	--	--	--	--	2100	1320					3	20 A				EAST BAY DOOR 3 - 3hp	44
45	--	--	--	--	--	--			2100	1320			--	--	--	--	--	--	46
47	WEST BAY DOOR 3 - 5hp				35 A	3					2100	1320	--	--	--	--	--	--	48
49	--	--	--	--	--	--	2100	360					1	20 A				RECEPTACLE SHOP 122	50
51	--	--	--	--	--	--			2100	1500			2	20 A				SUPPLEMENTAL HEAT 121	52
53	RECEPTACLE COMPR 121				20 A	1					180	1500	--	--	--	--	--	--	54
55	SUPPLEMENTAL HEAT 120				20 A	2	1500											--	56
57	--	--	--	--	--	--			1500									--	58
59	GENERATOR BLOCK HEATER				20 A	1					1500							--	60
61	GENERATOR BATTERY CHARGER				20 A	1	400											--	62
63																		--	64
65																		--	66
67																		--	68
69																		--	70
71																		--	72
73																		--	74
75																		--	76
77																		--	78
79																		--	80
81																		--	82
83																		--	84
TOTAL LOAD (VA):							22865 VA	23114 VA	21185 VA										
TOTAL AMPS:							193 A	195 A	177 A										
LOAD TYPE		CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES					PANELBOARD TOTALS									
EXISTING LOAD																			
COOLING			0%	0 VA															
HEATING			0%	0 VA															
LIGHTING		2462 VA	125%	3077 VA															
RECEPTACLES		5040 VA	100%	5040 VA															
MOTORS (125% OF LARGEST)		9754 VA	104%	10144 VA															
KITCHEN EQUIPMENT																			
MISCELLANEOUS		41004 VA	100%	41004 VA															
SUPPLEMENTAL HEAT																			
SIGNAGE																			

Branch Panel: INV-1

Location: DECON 112

Supply From: P1B

Mounting: Surface

Enclosure:

Volts: 208/120V, 1Ph, 3W

Phases: 1

Wires: 3

Input: 120V, 1ph

Output: 120V, 1ph

A.I.C. Rating:

Mains Type:

Mains Rating: 20 A

MCB Rating: 20 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	STORM SHELTER RECEPTACLES	20 A	1	180 VA	88 VA			1	20 A	STORM SHELTER FAN	2
3	STORM SHELTER LIGHTING...	20 A	1		243 VA						4
Total Load:				268 VA	243 VA	0 VA					
Total Amps:				3 A	2 A	0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	88 VA	125%	110 VA	
Receptacle	180 VA	100%	180 VA	
				Total Conn. Load: 510 VA
				Total Est. Demand: 593 VA
				Total Conn.: 2 A
				Total Est. Demand: 3 A

Notes:

FILE PATH: BIM 360://182252P21001_LeesSummitFireStation_#4 and #5/2150001291.LSNMO FIRE STAION_#5 v19.rvt

MARK D. MAURER

E

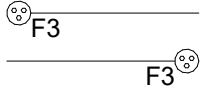
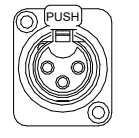

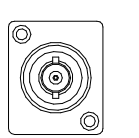
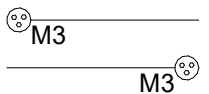
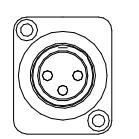
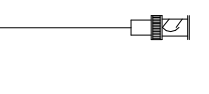

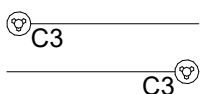
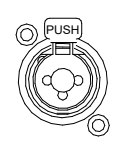


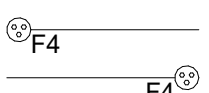
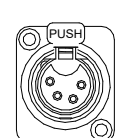
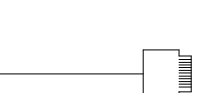

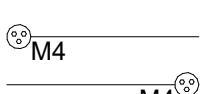
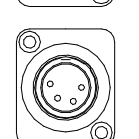

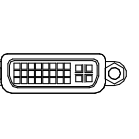
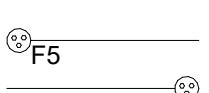
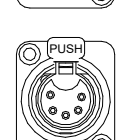
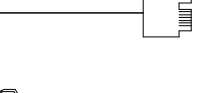
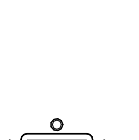
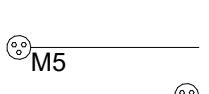
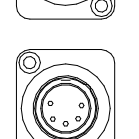


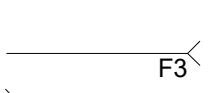
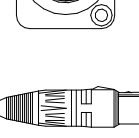

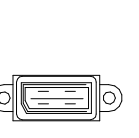
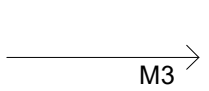
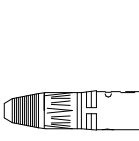
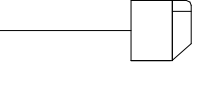


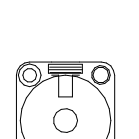

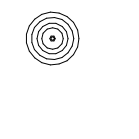

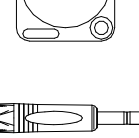



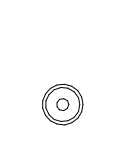

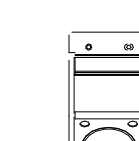



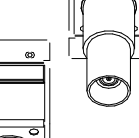
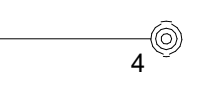
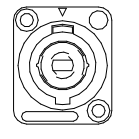

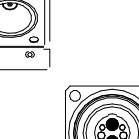
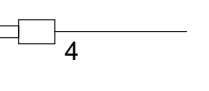
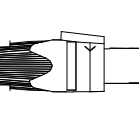

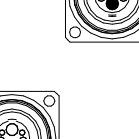
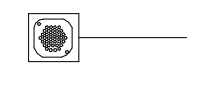
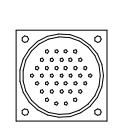


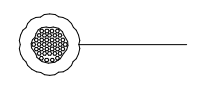
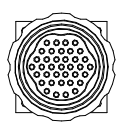



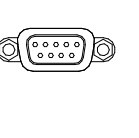

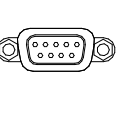



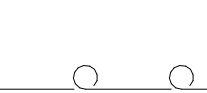

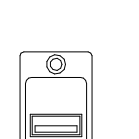

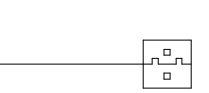
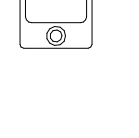

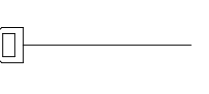
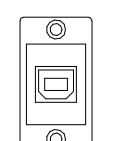


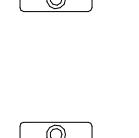


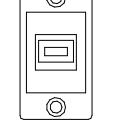

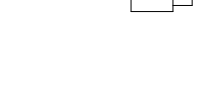

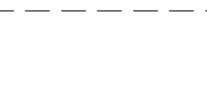


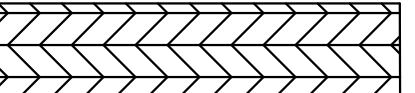

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B

A

AUDIO-VIDEO SYMBOLS

AUDIO			VIDEO		
SIGNAL FLOW	PANEL/PLATE	DESCRIPTION	SIGNAL FLOW	PANEL/PLATE	DESCRIPTION
		FEMALE 3-PIN XLR PANEL MOUNT CONNECTOR			BNC PANEL MOUNT CONNECTOR
		MALE 3-PIN XLR PANEL MOUNT CONNECTOR			CABLE END BNC CONNECTOR
		FEMALE COMBO 3-PIN XLR AND 1/4" PANEL MOUNT CONNECTOR			75 OHM BNC TERMINATOR
		FEMALE 4-PIN XLR PANEL MOUNT CONNECTOR			RGHV HD-15 PANEL MOUNT CONNECTOR
		MALE 4-PIN XLR PANEL MOUNT CONNECTOR			RGHV HD-15 CABLE MOUNT CONNECTOR
		FEMALE 5-PIN XLR PANEL MOUNT CONNECTOR			DVI PANEL MOUNT CONNECTOR
		MALE 5-PIN XLR PANEL MOUNT CONNECTOR			DVI CABLE MOUNT CONNECTOR
		FEMALE XLR CABLE MOUNT CONNECTOR (NUMBER BELOW SYMBOL INDICATES NUMBER OF PINS)			HDMI PANEL MOUNT CONNECTOR
		MALE XLR CABLE MOUNT CONNECTOR (NUMBER BELOW SYMBOL INDICATES NUMBER OF PINS)			HDMI CABLE MOUNT CONNECTOR
		1/4" 3-CONDUCTOR PANEL MOUNT CONNECTOR			DISPLAYPORT PANEL MOUNT CONNECTOR
		1/4" 3-CONDUCTOR CABLE MOUNT CONNECTOR			DISPLAYPORT CABLE MOUNT CONNECTOR
		1/8" 3-CONDUCTOR MINI PANEL MOUNT CONNECTOR			F-STYLE RF PANEL MOUNT CONNECTOR
		1/8" 3-CONDUCTOR MINI CABLE MOUNT CONNECTOR			F-STYLE RF CABLE MOUNT CONNECTOR
		SPEAKON JACK, 2-CONDUCTOR BLANK, 4-CONDUCTOR SHOWN			VIDEO PATCH PANEL JACK
		SPEAKON PLUG, SIMILAR TO ABOVE			TRIAx MALE
		MALE DT12 PANEL MOUNT CONNECTOR			TRIAx FEMALE
		FEMALE DT12 PANEL MOUNT CONNECTOR			SMPTE 304 MALE
					SMPTE 304 FEMALE
CONTROL			DEVICES AND CONNECTIONS		
SIGNAL FLOW	PANEL/PLATE	DESCRIPTION	SIGNAL FLOW		DESCRIPTION
		COM (DB-9) PANEL MOUNT CONNECTOR			CONNECTION TO CHASSIS GROUND
		COM (DB-9) CABLE MOUNT CONNECTOR			RUBBER JACKETED EXTENSION CABLE
		IR EMITTER			PARALLEL CONNECTION OR CHANGE IN WIRE TYPE
		USB TYPE A PANEL MOUNT CONNECTOR			ANTENNA
		USB TYPE A CABLE MOUNT CONNECTOR			PATCH POINT, CONNECT TO PATCH PANEL PER SPECIFICATION REQUIREMENTS
		USB TYPE B PANEL MOUNT CONNECTOR			CONNECTION BUBBLE UPPER DESIGNATION REFERS TO CONNECTION LABEL LOWER DESIGNATION REFERS TO THE SHEET NUMBER ON WHICH THE CONNECTION IS CONTINUED.
		USB TYPE B CABLE MOUNT CONNECTOR			EQUIPMENT / TERMINATIONS WITHIN A COMMON LOCATION AS LABELED.
		USB TYPE C PANEL MOUNT CONNECTOR			ALTERNATE OUTLINE
		USB TYPE C CABLE MOUNT CONNECTOR			
NOTE: PANEL & PLATE CONNECTORS ARE NOT SHOWN TO SCALE.					
CALL OUTS					
ENLARGED PLAN CALLOUT					
NOT IN SCOPE					

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

WIRE TYPE AND ABBREVIATIONS

(NOTE 1)	ABBREVIATION DEFINITION OR SIGNAL TYPES	WIRE TYPE	(NOTE 2)
AB	AUDIO TRANSPORT OVER MANUF. PROPRIETARY (NON-IP) PROTO. - REQ. STP	CAT6 STP	90m
AEC	ACOUSTIC ECHO CANCELING SIGNAL	-	
AES	DIGITAL AUDIO OVER AES FORMAT - BALANCED	22 AWG	100m
	UNBALANCED	RG-6	1000m
AN	AUDIO TRANSPORT OVER IP STANDARD PROTOCOL REQUIRING STP	CAT6 STP	90m
CC	RELAY OR CONTACT CLOSURE CONTROL SIGNAL	22 AWG	
Com	CONTROL SIGNAL (RS232, RS422, RS485)	22 AWG	
	LOW CAPACITANCE CONTROL CABLE FOR LONG RUNS	(NOTE 3)	
Ctl	CONTROL SIGNAL OVER MANUF. PROPRIETARY PROTOCOL	(NOTE 3)	
D	DVI VIDEO SIGNAL	PREMADE	25'
DM	DIGITAL MEDIA AUDIO/VIDEO/CONTROL SIGNAL	CAT6 STP	90m
DP	DISPLAY PORT SIGNAL	PREMADE	3m
FW	FIREWIRE IEEE 1394	PREMADE	4.5m
GPI0	GPI/GPO/GPIO - GENERAL PURPOSE INPUT AND/OR OUTPUT	(NOTE 4)	
H	HDMI VIDEO/AUDIO SIGNAL	(NOTE 3)	
HDSOI	HD-SDI PER SMPTE 292M	RG-59	300'
		RG-6	370'
		RG-11	580'
IC	INTERCOM (PRODUCTION)	22 AWG	
IR	INFRARED CONTROL SIGNAL	PREMADE	
I/O	VARIABLE VOLTAGE CONTROL SIGNAL	22 AWG	
L	LINE LEVEL AUDIO SIGNAL	22 AWG	
LAN	ETHERNET	CAT6	90m
LS	LOUDSPEAKER LEVEL AUDIO SIGNAL 2/4/8/16OHM	(NOTE 5)	
LS70	LOUDSPEAKER LEVEL AUDIO SIGNAL 70V	(NOTE 5)	
M	MICROPHONE LEVEL AUDIO SIGNAL	22 AWG	
MADI	MADI SIGNAL PROTOCOL	RG-6	100m
		SMF	40km
MIDI	MIDI CONTROL SIGNAL	PREMADE	
MMF	MULTI-MODE FIBER	(NOTE 3)	
Mono	MONO AUDIO SIGNAL	22 AWG	
Phone	TELEPHONE SIGNAL	CAT3	
R	RGHV VIDEO SIGNAL	PREMADE	25'
Ref	REFERENCE/SYNC/BLACK - BLACK BURST OR TRI-LEVEL SYNCHRONIZATION	RG-59	
RF	RADIO FREQUENCY	RG-58	IN RACK
	RF WIRELESS MIC ANTENNA (-5dB @ 800MHz NO AMP)	RG-8X	40'
	RF WIRELESS MIC ANTENNA (-5dB @ 800MHz NO AMP)	RG-213	65'
	RF WIRELESS MIC ANTENNA (-5dB @ 800MHz NO AMP)	RG-8/U	120'
SAT IF	SATELLITE INTERMEDIATE FREQUENCY SIGNAL (TYPICALLY L-BAND)	RG-59	IN RACK
		RG-6	DROP
		RG-11	DISTRO
SDI	SERIAL DIGITAL INTERFACE PER SMPTE 259M	PREMADE	950'
		RG-6	1150'
		RG-11	1850'
SMF	SINGLE-MODE FIBER	(NOTE 3)	2.5km
SPDIF	DIGITAL AUDIO OVER S/PDIF	PREMADE	10m
St	STEREO AUDIO SIGNAL	PREMADE	5m
		22 AWG	
TLY	TALLY	24 AWG	
TB	THUNDERBOLT SIGNAL	PREMADE	3m
TC	TIMECODE	RG-59	
TIE LINES	MICROPHONE LEVEL	22 AWG	
	LINE LEVEL	22 AWG	
	LOUDSPEAKER LEVEL	(NOTE 4)	
	VIDEO	(NOTE 4)	
TPA	AUDIO SIGNAL OVER TWISTED PAIR	CAT6	90m
TPC	CONTROL SIGNAL OVER TWISTED PAIR	CAT6	90m
TPT	TELEVISION SIGNAL OVER TWISTED PAIR	CAT6	90m
TPV	VIDEO SIGNAL OVER TWISTED PAIR	CAT6	90m
TRIAx	TRIAx VIDEO CAMERA CABLE	RG-59/U	IN ROOM
		RG-11/U	2950'
TV	CABLE TELEVISION DISTRIBUTION SIGNAL	RG-59	IN RACK
		RG-6	DROP
		RG-11	DISTRO
		1/2" HARDLINE	TRUNK
USB	UNIVERSAL SERIAL BUS SIGNAL	PREMADE	
USB1	USB VERSION 1.0	PREMADE	5m
USB2	USB VERSION 2.0	PREMADE	5m
USB3	USB VERSION 3.0	PREMADE	5m
V	COMPOSITE VIDEO SIGNAL	RG-59	750'
		RG-6	900'
		RG-11	1200'
		RG-59	125'
		RG-6	200'
		RG-59	200'
		RG-6	250'
		RG-11	390'
		(NOTE 4)	
Y	COMPONENT VIDEO SIGNAL		
3GSDI	3G-SDI PER SMPTE 424M		
6GSDI	6G-SDI		
*	DENOTES PORTION OF ITEM		
NOTES	COMPLY WITH ALL MANUFACTURER REQUIREMENTS.		
1	SIGNAL FLOW SIGNAL TYPE ABBREVIATION.		
2	CABLE DISTANCE LIMITATION. CONTACT CONSULTANT FOR CONDITIONS OUTSIDE PARAMETERS.		
3	REFER TO SPECIFICATION FOR WIRE TYPE.		
4	REFER TO SIGNAL FLOWS FOR WIRE TYPE.		
5	REFER TO SCHEDULES FOR WIRE TYPE.		

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VARIES PER DEVICE

Block Description	→
Y/S/V 1	Y/S/V 1/2
M/L 1	St 1
Y/S/V 2	Y/S/V 3
M/L 2	St 2
R/Y 3	R/Y/S/V 4
St 1	St 3
R/Y 4	DM 5
St 2	DM 6
R/Y 5	DM 7
St 3	Cont Net
DM 1	LS L
DM 2	LS R
USB	Com A
IR In	Com B
IO	IR A
IO	IR B
LAN	CC 1

Product Name/Model#

SPECIFICATION REFERENCE

DEVICE IDENTIFICATION AND LABEL

SIGNAL TYPE (TYPICAL)
SEE WIRE TYPE AND ABBREVIATIONS SCHEDULE

PRODUCT REFLECTING BASIS OF DESIGN



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CHK'D BY: M.MAURER

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AUDIO-VIDEO
GENERAL
SYMBOLS

TA001

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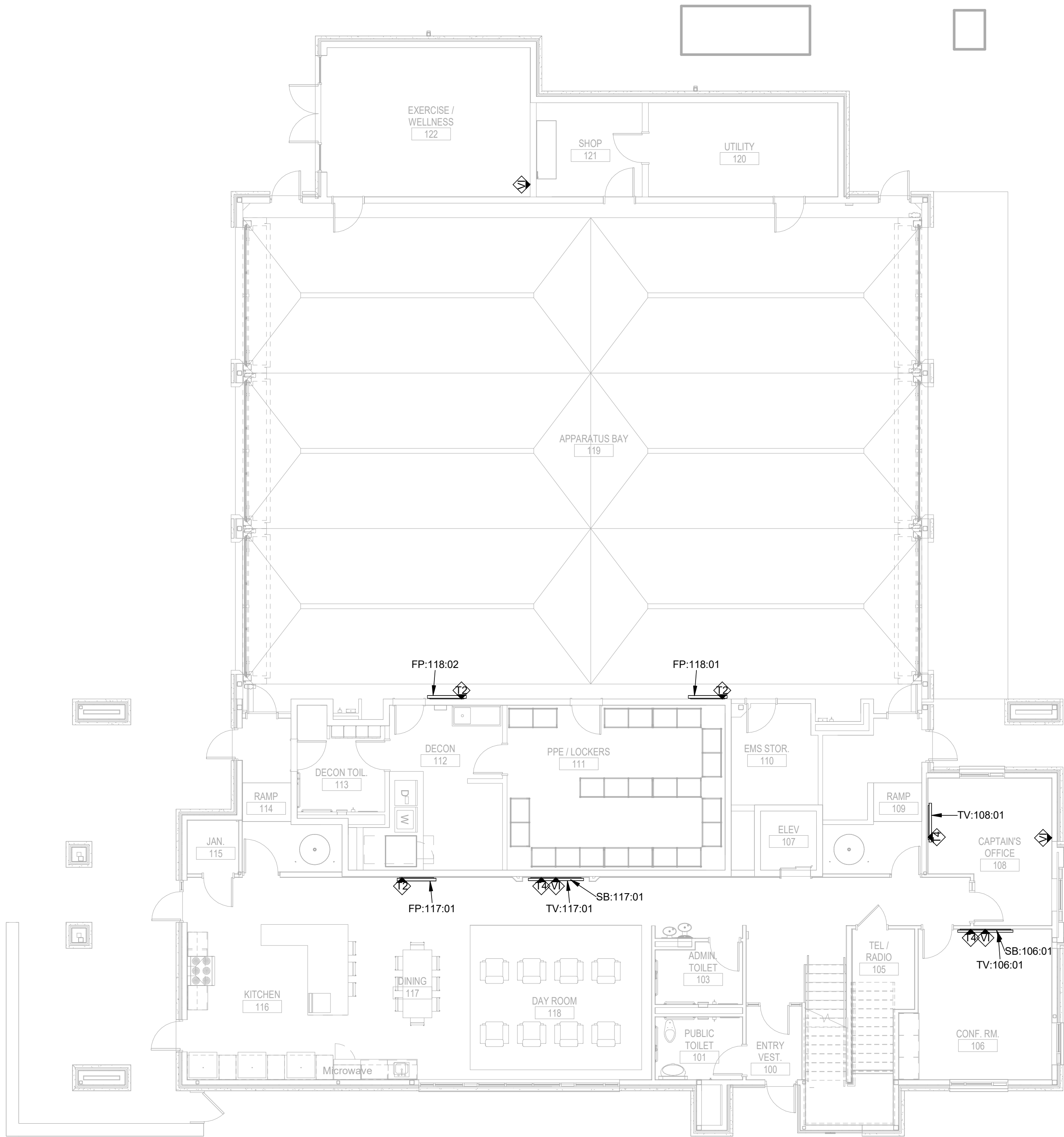
E

D

C

B

A



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

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AUDIO-VIDEO
LEVEL 1 PLAN

TA101

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AUDIO-VIDEO
LEVEL 2 PLAN

TA102

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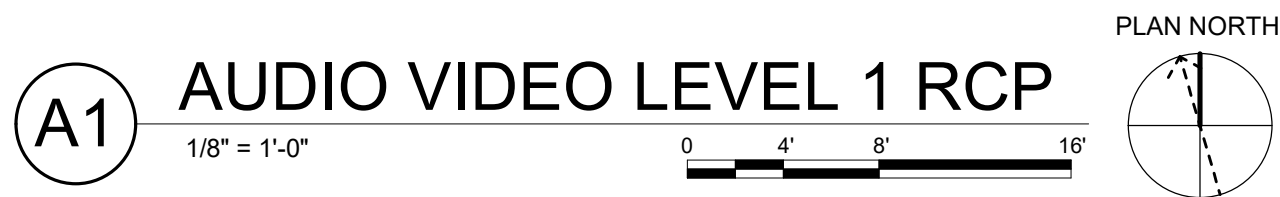
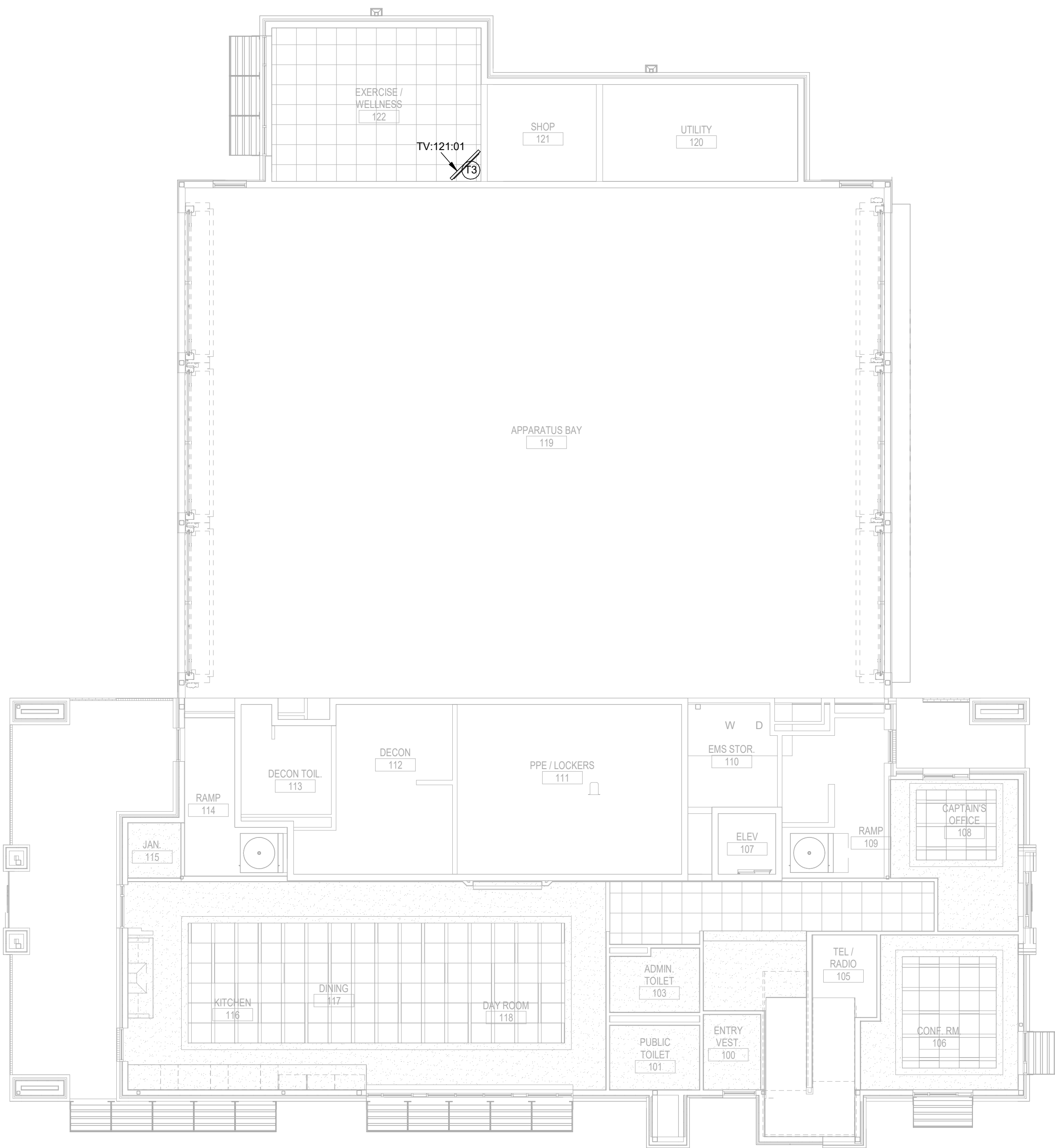
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AUDIO-VIDEO
LEVEL 1 RCP

TA201

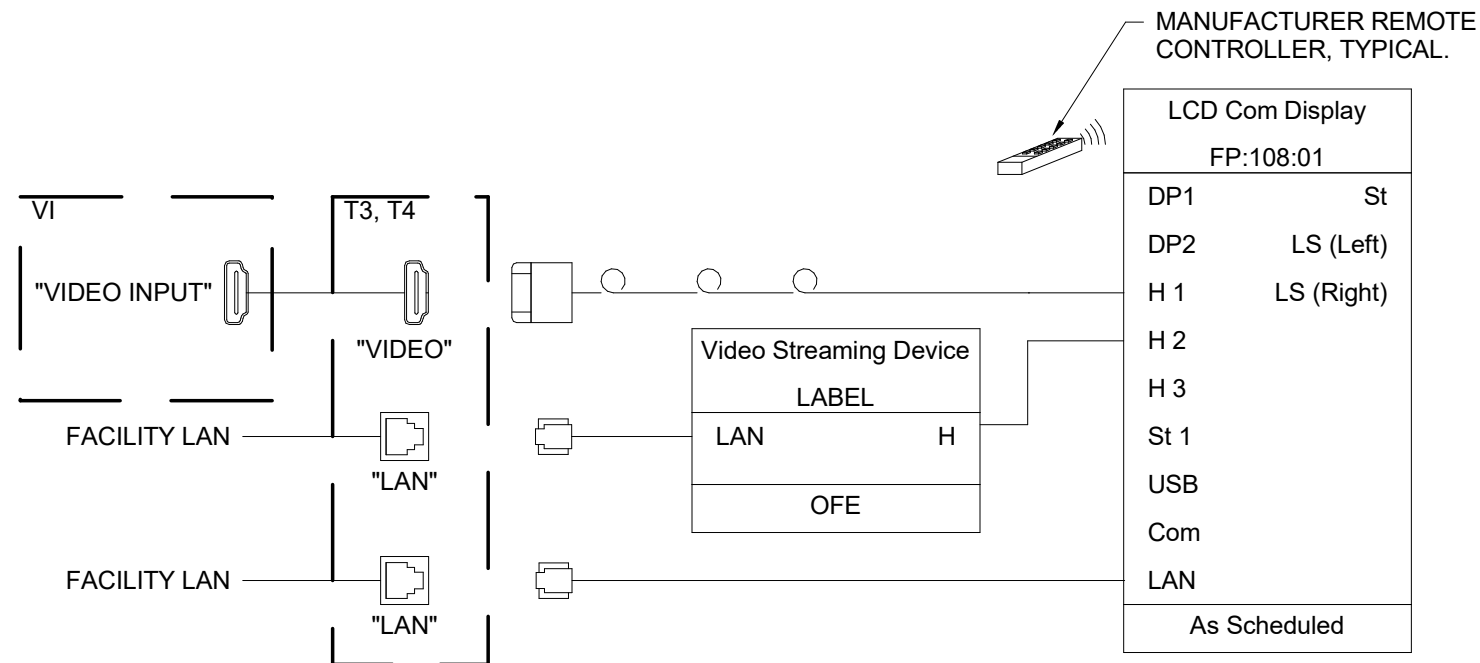
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AUDIO-VIDEO BOX SCHEDULE - TYPICALS											
BOX FUNCTION		BOX PROPERTIES					BOX ACCESSORIES			CONDUIT REQUIREMENTS	
ID	DESCRIPTION	TYPE	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT (CENTER OF BOX)	MOUNTING	COVER	INSERTS	SIZE	ROUTE	NOTES
T2	TELEVISION CONNECTION BOX	2-GANG/2-GANG	RACO	260 W/ 818	MATCH CENTER HEIGHT OF DISPLAY	FLUSH	BLANK	NONE	1.25" C	ABOVE ACESSIBLE CEILING OR AS HIGH AS POSSIBLE TO CEILING DECK IN ROOM	
T3	TELEVISION CONNECTION CEILING BOX	2-GANG/2-GANG	RACO	167 W/ 818	0"	CEILING FLUSH	BLANK	NONE	-	-	
T4	TELEVISION CONNECTION BOX	2-GANG/2-GANG	RACO	260 W/ 818	MATCH CENTER HEIGHT OF DISPLAY	FLUSH	BLANK	NONE	1.25" C	ABOVE ACESSIBLE CEILING OR AS HIGH AS POSSIBLE TO CEILING DECK IN ROOM	
VI	ASSORTED CONNECTION WALL BOX	2-GANG/1-GANG	RACO	260 W/ 843	18"	FLUSH	BLANK	NONE	1.25" C	ABOVE ACESSIBLE CEILING OR AS HIGH AS POSSIBLE TO CEILING DECK IN ROOM	

AUDIO-VIDEO FLAT PANEL DISPLAY SCHEDULE									
DISPLAY PROPERTIES				MOUNTING REQUIREMENTS			DISPLAY RESPONSIBILITY		
ID	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT AFF. (CENTER OF DISPLAY)	TYPE	FURNISHED BY	INSTALLED BY	PROVIDED BY	NOTES
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	

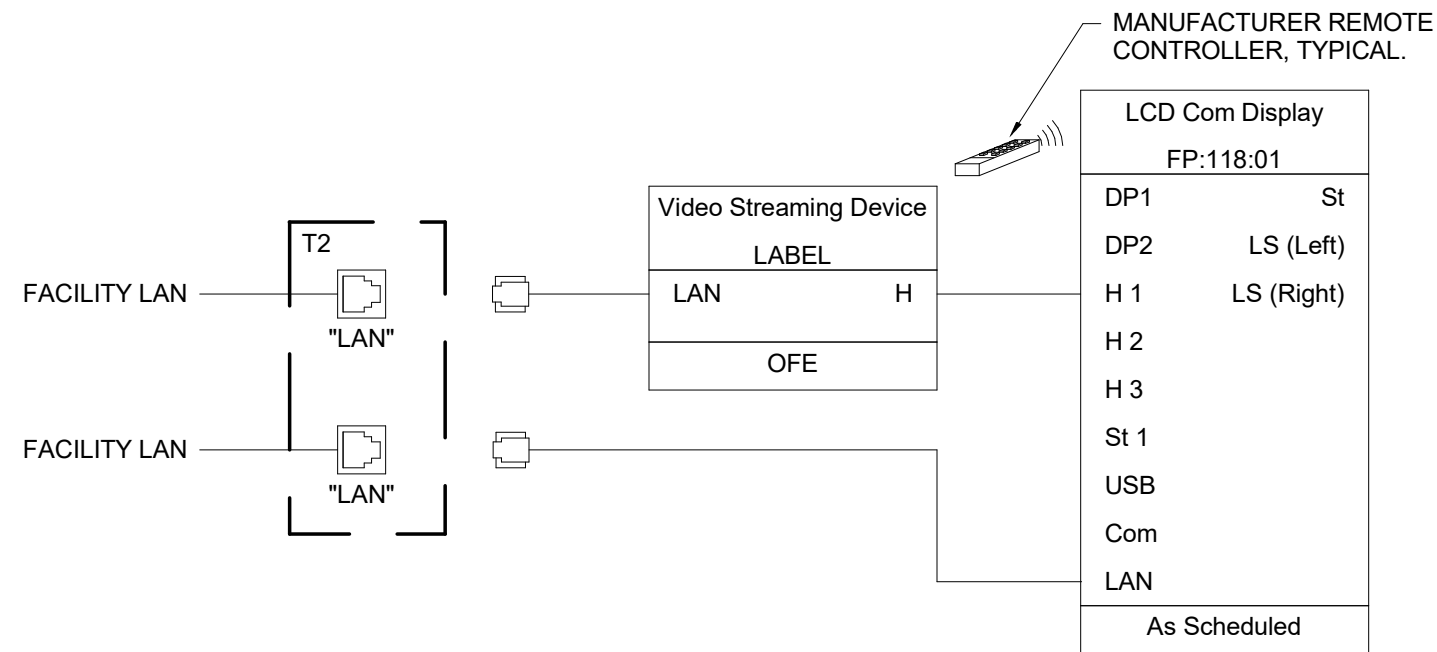
AUDIO-VIDEO LOUDSPEAKER SCHEDULE													
ID	LOUDSPEAKER PROPERTIES					LOUDSPEAKER MOUNTING		ORIENTATION			ENCLOSURE/HORN		NOTES
	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	IMPEDANCE (OHM)	70V TAP (WATTS)	MOUNTING CONDITION	HEIGHT	YAW	PITCH	ROLL	ROLL ENCL. 90	ROTATE HORN 90	

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



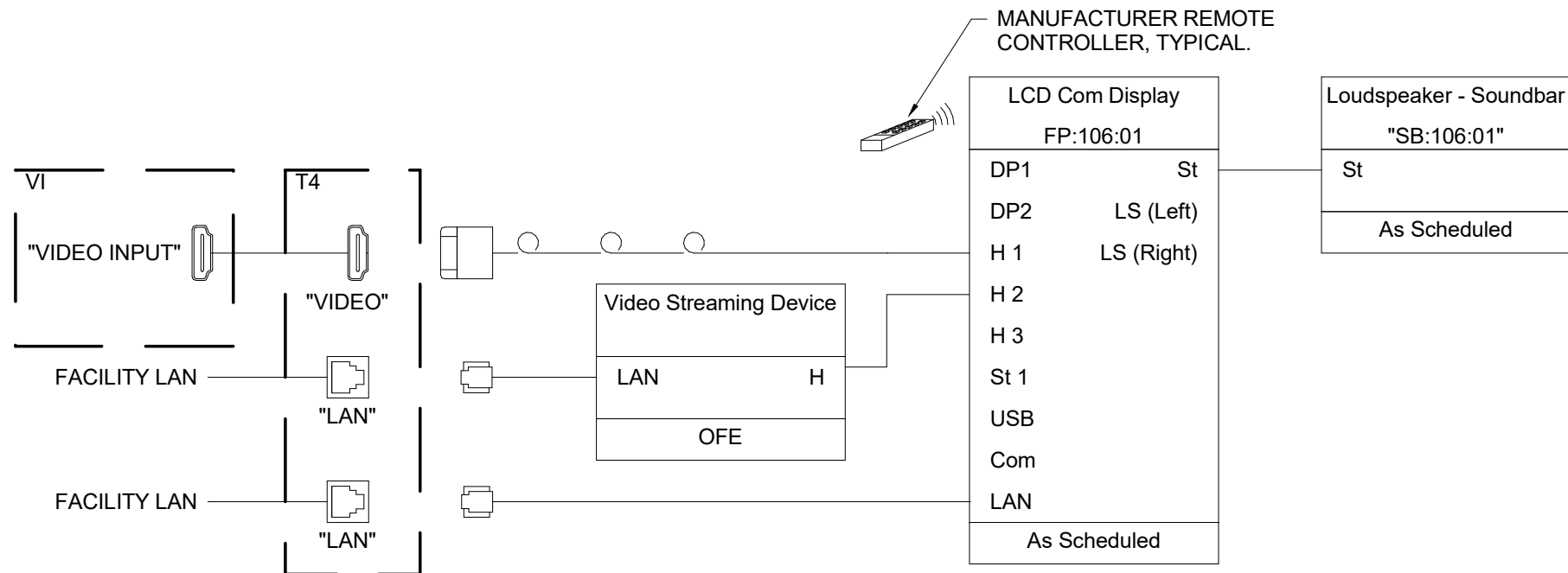
B1 CAPTAIN'S OFFICE 108 DISPLAY WITH LOCAL HDMI, FP:108:01 SHOWN

- 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)



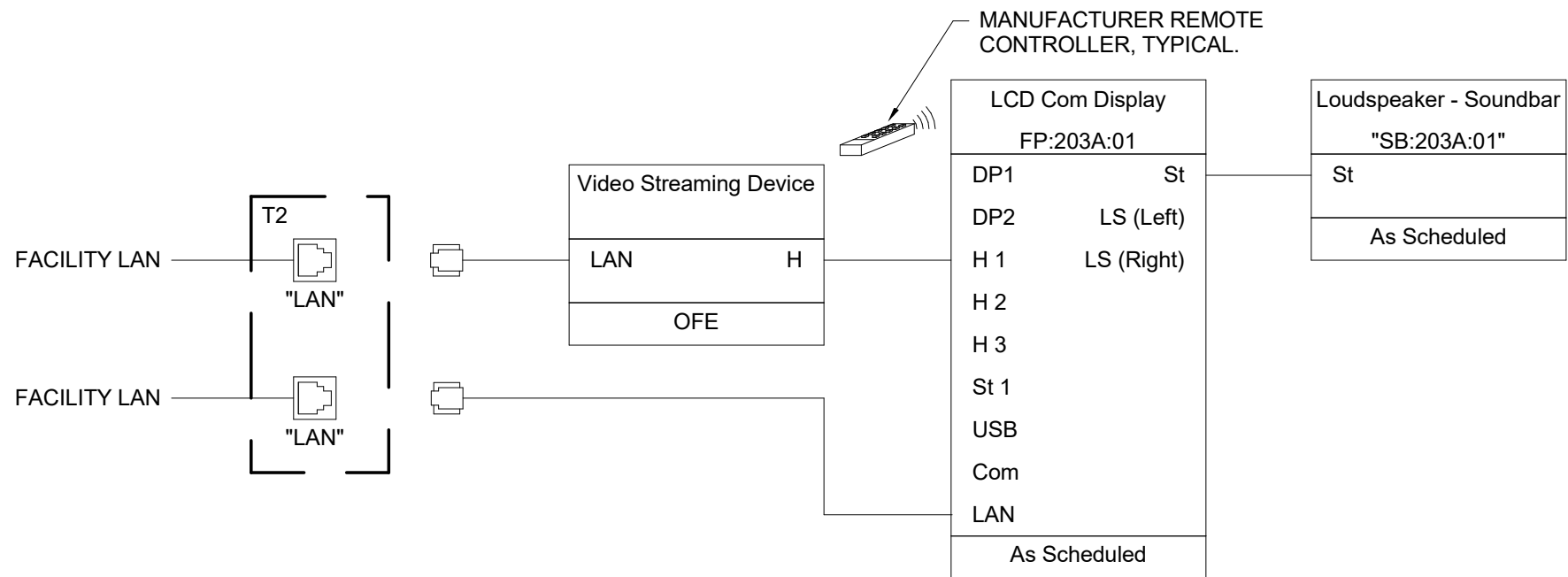
A1 APPARATUS BAY 118 DISPLAY, TYPICAL FP:118:01 SHOWN

- 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)



B4 SINGLE DISPLAY WITH LOCAL HDMI, TYPICAL TRAINING/SMALL CONFERENCE ROOM 106 SHOWN

- 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



A4 CAPTAIN'S BUNK 203 DISPLAY

NOT TO SCALE

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100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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10/26/2022

PROJECT NO: 2150001291
DATE: 10.26.2022
DRAWN BY: J.ROSE
CHK'D BY: M.MAURER

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AUDIO-VIDEO
SCHEDULES &
SIGNAL FLOWS

TA600

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TELECOMMUNICATIONS SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

V2.00

STANDARD MOUNTING HEIGHTS			
TELECOM BACKBOARD (BOTTOM OF BACKBOARD)	4"		
LADDER RACK IN TELECOM ROOMS (BOTTOM OF DEVICE)	90"		
CABLE TRAY / CONDUIT AFC (BOTTOM OF PATHWAY)	3"(MIN)		
LIGHT FIXTURE IN TELECOM ROOMS (BOTTOM OF DEVICE)	108"(MIN)		
DATA WALL OUTLET	SAME AS ADJACENT DEVICE, UNO		
TELEVISION OUTLET	REFER TO ARCH DRAWINGS		
TMGB/TGB (CENTERLINE)	84"		
WALL CLOCK (CENTERLINE)	84"		
INTERCOM (CENTERLINE)	48"		
USE THE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) TO BOTTOM OF OUTLET BOX. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.			
ABBREVIATIONS			
A AMPERES	LAN LOCAL AREA NETWORK		
ADA AMERICANS WITH DISABILITIES ACT	LCC LIMITED COMBUSTIBLE CABLE		
AFC ABOVE FINISHED CEILING	LEC LOCAL EXCHANGE CARRIER		
AFF ABOVE FINISHED FLOOR	LED LIGHT-EMITTING DIODE		
AFG ABOVE FINISHED GRADE	LF LINEAR FEET		
AHJ AUTHORITY HAVING JURISDICTION	MAN METROPOLITAN AREA NETWORK		
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	MATV MASTER ANTENNA TELEVISION		
AP ACCESS POINT	MC MAIN CROSS-CONNECT		
AV AUDIO-VIDEO	MDF MAIN DISTRIBUTION FRAME		
AWG AMERICAN WIRE GAUGE	MFR MANUFACTURER		
BAS BUILDING AUTOMATION SYSTEM	MH MAINTENANCE HOLE		
BBC BACKBONE BONDING	MM MULTIMODE		
BD BUILDING DISTRIBUTOR	MPOE MAIN POINT OF ENTRANCE		
BDF BUILDING DISTRIBUTION FRAME	MPOP MAIN POINT OF PRESENCE		
BFC BELOW FINISHED CEILING	MTD MOUNTED		
C CONDUIT	N/A NOT APPLICABLE		
CAT CATEGORY	NEC NATIONAL ELECTRICAL CODE		
CATV COMMUNITY ANTENNA TELEVISION	NFPA NATIONAL FIRE PROTECTION ASSOCIATION		
CCTV CLOSED CIRCUIT TELEVISION	NIC NOT IN CONTRACT		
CD CAMPUS DISTRIBUTOR	nm NANOMETER		
CMP COMMUNICATIONS PLENUM	NRTL NATIONALLY RECOGNIZED TESTING LAB		
CMR COMMUNICATIONS RISER	OC ON CENTER		
JACKET	OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		
DAS DISTRIBUTED ANTENNA SYSTEM	OSP OUTSIDE PLANT		
dB DECIBELS	PBB PRIMARY BONDING BUSBAR		
DEMO DEMOLITION	PBX PRIVATE BRANCH EXCHANGE		
(E) EXISTING	POE POWER OVER ETHERNET		
ECIA ELECTRICAL CONTRACTOR ELECTRONIC COMPONENTS INDUSTRY ASSOCIATION	PON PASSIVE OPTICAL NETWORK		
EMI ELECTROMAGNETIC INTERFERENCE	POTS PLAIN OLD TELEPHONE SERVICE		
EMS ENERGY MANAGEMENT SYSTEM	PSTN PUBLIC SWITCHED TELEPHONE NETWORK		
EMT ELECTRICAL METALLIC TUBING	QTY QUANTITY		
ER EQUIPMENT ROOM	RCDD REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER		
ETR EXISTING TO REMAIN	RMC RIGID METAL CONDUIT		
FACP FIRE ALARM ANNUNCIATOR PANEL	RU RACK UNIT		
FACP FIRE ALARM CONTROL PANEL	SBB SECONDARY BONDING BUSBAR		
FD FLOOR DISTRIBUTOR	SCS STRUCTURED CABLING SYSTEM		
FMC FLEXIBLE METAL CONDUIT	SF SQUARE FEET		
FS FIRE STOP SYSTEM	SM SINGLEMODE		
FLR FLOOR	SPECS SPECIFICATIONS		
F/UTP SCREEN TWISTED PAIR (SHIELDED)	TBB TELECOMMUNICATIONS BONDING BACKBONE TO BE DETERMINED		
GC GENERAL CONTRACTOR	TBD TELECOMMUNICATIONS		
GYP GYPSUM BOARD	TIA INDUSTRY ASSOCIATION		
HC HORIZONTAL CROSS-CONNECT	TR TELECOMMUNICATIONS ROOM		
HCM HORIZONTAL CABLE MANAGER	TYP TYPICAL		
HH HAND HOLE	UNO UNLESS NOTED OTHERWISE		
HZ HERTZ	UL UNDERWRITER LABORATORIES, INC.		
IMC INTERMEDIATE METAL CONDUIT	UPS UNINTERRUPTIBLE POWER SUPPLY		
IP INTERNET PROTOCOL	UI/UTP UNSHIELDED TWISTED PAIR		
ISP INTERNET SERVICE PROVIDER	V VOLTS(S)		
ISP INSIDE PLANT CABLE	VCM VERTICAL CABLE MANAGER		
JB JUNCTION BOX	W WIRE		
J-BOX JUNCTION BOX	WAN WIDE AREA NETWORK		
	WAO WORK AREA OUTLET		
	WAP WIRELESS ACCESS POINT		
	WP WEATHER PROOF		
	WR WEATHER RESISTANT		
	WT WATERTIGHT		
	XP EXPLOSION-PROOF		

LINETYPE LEGEND	
THROUGHOUT THE DRAWINGS DIFFERENT LINE-TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.	
EXISTING	NEW
DEMOLISH	FUTURE

PATHWAYS	
	WIRE MESH CABLE TRAY (W"=WIDTH, "H"=HEIGHT)
	VERTICAL CABLE TRAY
	UNDERGROUND CONDUIT ("H"=QUANTITY, "D"=CONDUIT DIAMETER)
	CONDUIT ("H"=QUANTITY, "D"=CONDUIT DIAMETER)
	CONDUIT SLEEVE ("H"=QUANTITY, "D"=CONDUIT DIAMETER)
	UL FIRESTOP SYSTEM ASSEMBLY
	PULL BOX ("L"=LENGTH, "W"=WIDTH, "H"=HEIGHT)
	SPLICE
RISER DIAGRAMS	
	FIBER OPTIC CROSS CONNECT
	COPPER UTP CROSS CONNECT
	110-TYPE PROTECTOR BLOCK
	PATCH PANEL
	SECONDARY BONDING BUSBAR (SBB)
	PRIMARY BONDING BUSBAR (PBB)
	TELECOMMUNICATIONS BACKBONE CABLING (REFER TO RISER DIAGRAM FOR MORE INFORMATION)
TELECOMMUNICATIONS ROOM	
	LADDER RACK
	PRIMARY BONDING BUSBAR (PBB) - WALL ELEVATION VIEW
	SECONDARY BONDING BUSBAR (SBB) - WALL ELEVATION VIEW
	PBB/SBB - PLAN VIEW
	TELECOM BACKBOARD
	TWO-POST EQUIPMENT RACK
	FOUR-POST EQUIPMENT RACK
	EQUIPMENT CABINET (REFER TO PLAN NOTES ON ENLARGED PLANS FOR MORE INFORMATION)
CABLE TYPES	
A	CATEGORY 6 CABLE
B	CATEGORY 6A CABLE

TELECOMMUNICATIONS OUTLETS				
SYMBOL	DESCRIPTION	CABLE(S)		DETAIL
		A	B	
▽ 1D	DATA WALL OUTLET	1	0	A3,D5/TN500
▽ 2D	DATA WALL OUTLET	2	0	A3,D5/TN500
▽ 2D, TV	DATA WALL OUTLET FOR AV DISPLAY, MOUNT AT 60" AFF	2	0	C5/TN500
▽ WAP	DATA WALL OUTLET FOR WIRELESS ACCESS POINT, MOUNT AT 120" AFF	1	0	A1,E1/TN500
▽ W, 1D	TELEPHONE, VoIP WALL OUTLET	1	0	D7/TN500
▽ 2D,ELEV	DATA WALL OUTLET FOR ELEVATOR	2	0	D5/TN500
⊕ 1D	DAT CEILING OUTLET	0	1	A1,E1/TN500
2D, TYPE "X"	MULTI-SERVICE FLOOR BOX WITH DATA AND POWER OUTLETS, REFER TO ELECTRICAL DRAWINGS FOR FLOOR BOX TYPE	2	0	D1/TN501
TELECOMMUNICATIONS END-POINT DEVICES				
DEVICE SCHEDULE				
SYMBOL	DESCRIPTION	CABLE(S)		DETAIL
		A	B	
Ⓢ RT	PAGING SPEAKER, RECESSED CEILING TILE MOUNT	1	0	C1/TN500
Ⓢ P	PAGING SPEAKER, PENDANT CEILING MOUNT	1	0	C1/TN500

TELECOMMUNICATIONS RESPONSIBILITY MATRIX					
Description	Furnish		Install		Comments
	Construction Team	Owner	Construction Team	Owner	
General Communications					
Grounding and Bonding	X		X		
Hangers and Supports	X		X		
Conduits and Backboxes	X		X		
Surface Raceways	X		X		
Underground pathways for utility entrance and floor boxes	X		X		
Firestops, Conduit Sleeves, and Sleeve Seals	X		X		
Structured Cabling					
Telecom Room Cabinets, Racks, Frames, and Enclosures	X		X		
Copper Horizontal Cable and Connectivity	X		X		
Data Communications					
Router / Firewall		X		X	
Core Switch / Edge Switch		X		X	
Wireless Access Points		X		X	
Servers / Storage and Backup		X		X	
Laptops / Desktops / Copiers / Printers / Scanners		X		X	
Voice Communications					
VoIP Gateway / Analog handsets		X		X	
VoIP handset wall mount kit		X		X	
VoIP handsets		X		X	
VoIP Network licensing		X		X	
Distributed & Monitoring Communications					
Overhead Analog/IP Paging	X		X		
Electronic Safety and Security					
Conduits and Backboxes for Security systems	X		X		
Refer to Security drawings for Security Scope					

- GENERAL NEW WORK NOTES
1.

READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS.
2.

ALL WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS (DIVISION 26, DIVISION 27, DIVISION 28, ETC.) AND THE CUSTOMER PRE-ESTABLISHED STRUCTURED CABLING STANDARDS. SHOULD DIFFERENCES EXIST IN THE SPECIFICATIONS RELATING TO TECHNOLOGY AND THE CLIENT'S PRE-ESTABLISHED STANDARDS THE CONTRACTOR SHALL CONTACT THE LOW VOLTAGE ENGINEER FOR CLARIFICATION THROUGH THE RFI PROCESS.
3.

FULLY COORDINATE ALL FIRE STOP CONDUITS / SLEEVES, AND CONDUIT ROUTING WITH STRUCTURAL ELEMENTS. COORDINATE CONDUIT INSTALLATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. ROUTING IN CONCRETE SLAB OR UNDER SLAB (WHERE CONDUIT WOULD BE ON GRADE) REQUIRES THE USE OF WET LOCATION RATED CABLES.
4.

ALL TELECOMMUNICATIONS CONTINUOUS PATHWAYS SHALL BE BONDED TO THE TELECOMMUNICATIONS BONDING BACKBONE; FOR CONDUITS, INSULATION BUSHINGS SHALL BE USED AT THE END OF THE CONDUIT THE FARTHEST AWAY FROM THE SERVING TR; A BONDING BUSHING SHALL BE USED AT THE END CLOSEST TO THE SERVING TR. CONTRACTOR TO REFER TO THE ANSI-STD-J 607 STANDARD FOR ADDITIONAL INFORMATION AS TO THE INSTALLATION OF THE TELECOMMUNICATIONS BONDING BACKBONE.
5.

ALL FIRE RATED WALL / FLOOR ASSEMBLIES PENETRATED FOR TELECOMMUNICATIONS CABLING PATHWAYS SHALL BE FIRE STOPPED WITH THE APPROVED FIRE STOP SYSTEMS (FIS). ALL FIRESTOP SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER AND AS SPECIFIED IN DIVISION 07 07 84 00 - "FIRES TOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM.
6.

BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALLS SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, AND GC PRIOR TO ORDERING THE PRECAST WALLS.
7.

ROUTING OF CABLES SHALL BE CONCEALED. CABLES SHALL BE ROUTED IN CONDUIT IN EXPOSED AREAS. MINIMIZE AMOUNT OF EXPOSED CONDUIT BY EMBEDDING CONDUIT IN SLAB WHEN POSSIBLE. EMBEDDED CONDUITS AND PENETRATIONS OF STRUCTURE SHALL FOLLOW DETAILS IN STRUCTURAL DRAWINGS. WHEN CONDUITS CAN ONLY BE INSTALLED EXPOSED, NOTIFY ARCHITECT PRIOR TO START OF INSTALLATION OF CONDUITS. CABLES SHALL BE ROUTED IN CONDUIT WHEN ABOVE HARD CEILINGS. CONDUITS FOR ELEVATOR PHONES AND FIRE ALARM CONTROL PANEL SHALL BE CONTINUOUS (HOMERUN) FROM THE TELECOMMUNICATIONS ROOM TO THE APPLICABLE BOX / CABINET. CONTRACTOR SHALL SIZE AND PROVIDE CONDUITS TO MEET TIA-569.
8.

TELECOMMUNICATIONS ROOMS SHALL BE DEDICATED FOR INFORMATION TECHNOLOGY USE (I.E. NO SHARED SPACE WITH A JANITOR, FIRE ALARM SYSTEM, ETC.) NO SERVICES SHALL PASS THROUGH THE SPACE UNLESS DEDICATED TO THE SPACE (NO PLUMBING, MECHANICAL, ELECTRICAL, FIRE, ETC.)

HATCHING LEGEND	
ENLARGED PLAN	
NOT IN SCOPE (NIS)	

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100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date

PROJECT NO:

2150001291

DATE:

10.26.2022

DRAWN BY:

J.CORONADO

CHK'D BY:

M.MAURER

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TECHNOLOGY
GENERAL NOTES

TN000

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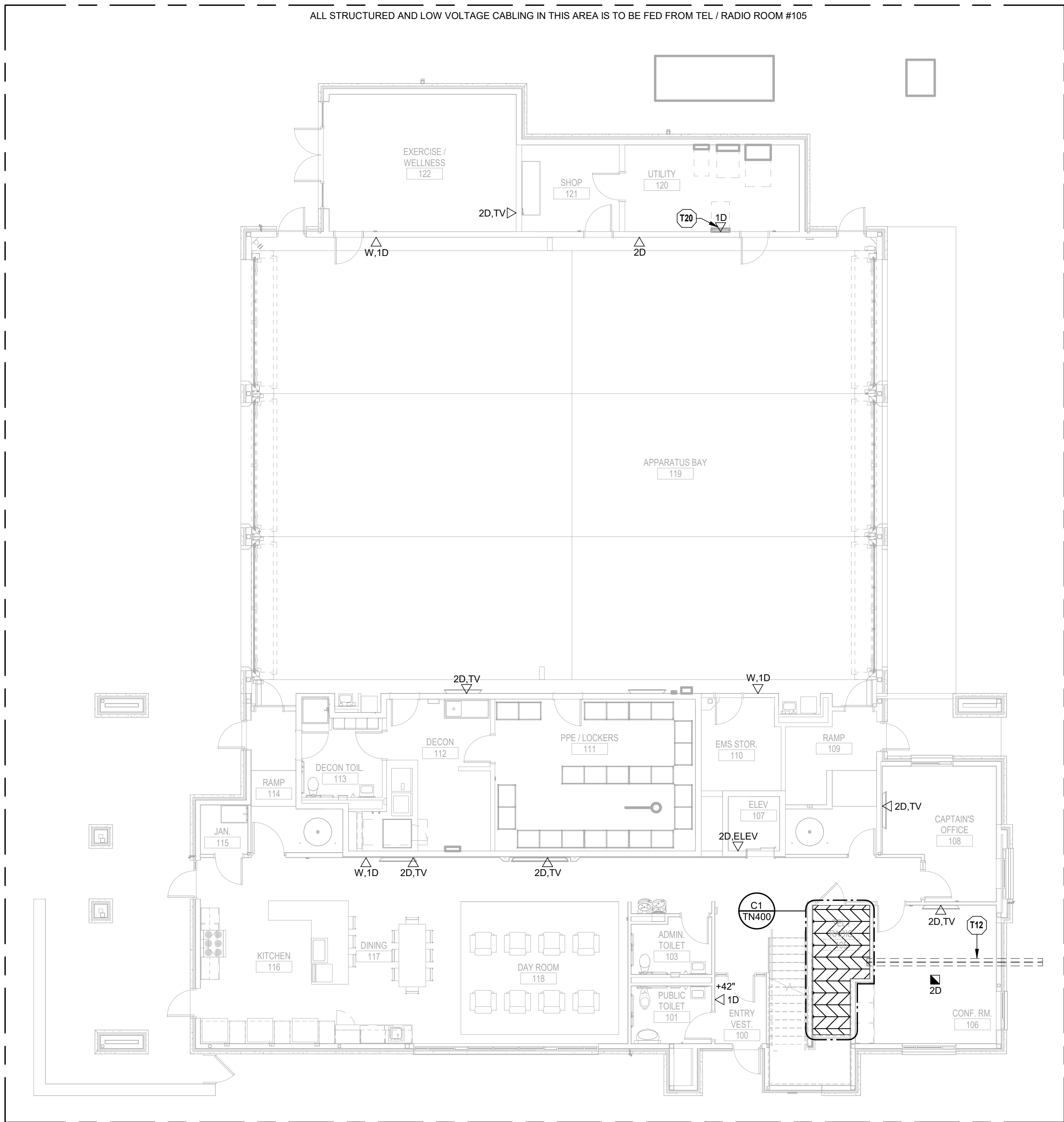
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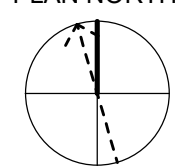
A1

TECHNOLOGY LEVEL 1 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'

PLAN NORTH



TECHNOLOGY PLAN NOTES:

- 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.
- T20 PROVIDE DATA OUTLET FOR LIGHTING CONTROL PANEL. REFER TO ELECTRICAL SHEETS FOR FURTHER INFORMATION. COORDINATE WITH ELECTRICAL CONTRACTOR ON EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.



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PROJECT NO: 2150001291

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DRAWN BY: J.CORONADO

CHK'D BY: M.MAURER

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TECHNOLOGY
LEVEL 1 PLAN

TN101



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FIRE STATION #5
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:		
#	Description	Date



10/26/2022

PROJECT NO:	2150001291
DATE:	10.26.2022
DRAWN BY:	J.CORONADO
CHK'D BY:	M.MAURER

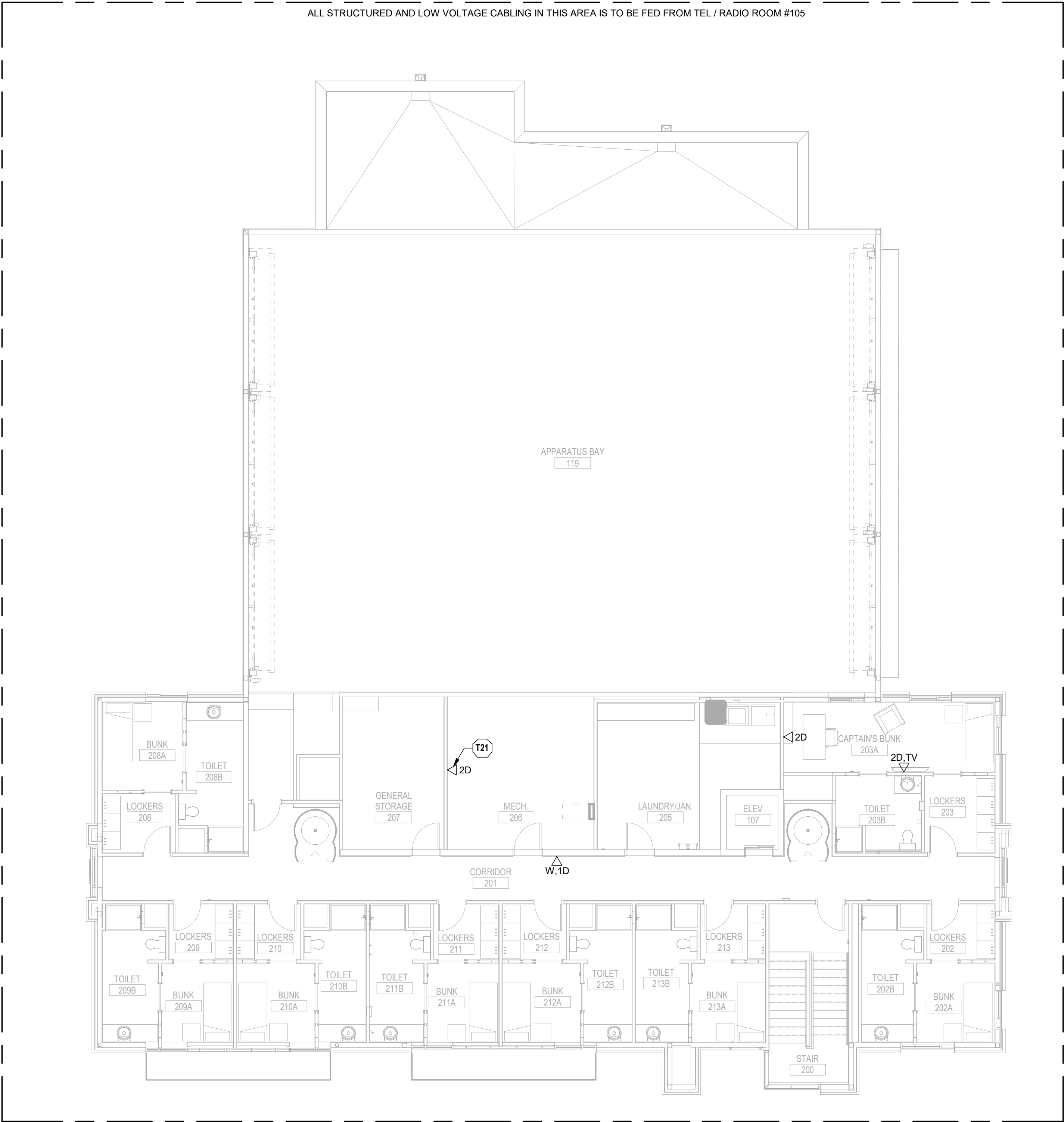
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TECHNOLOGY
LEVEL 2 PLAN

TN102

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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

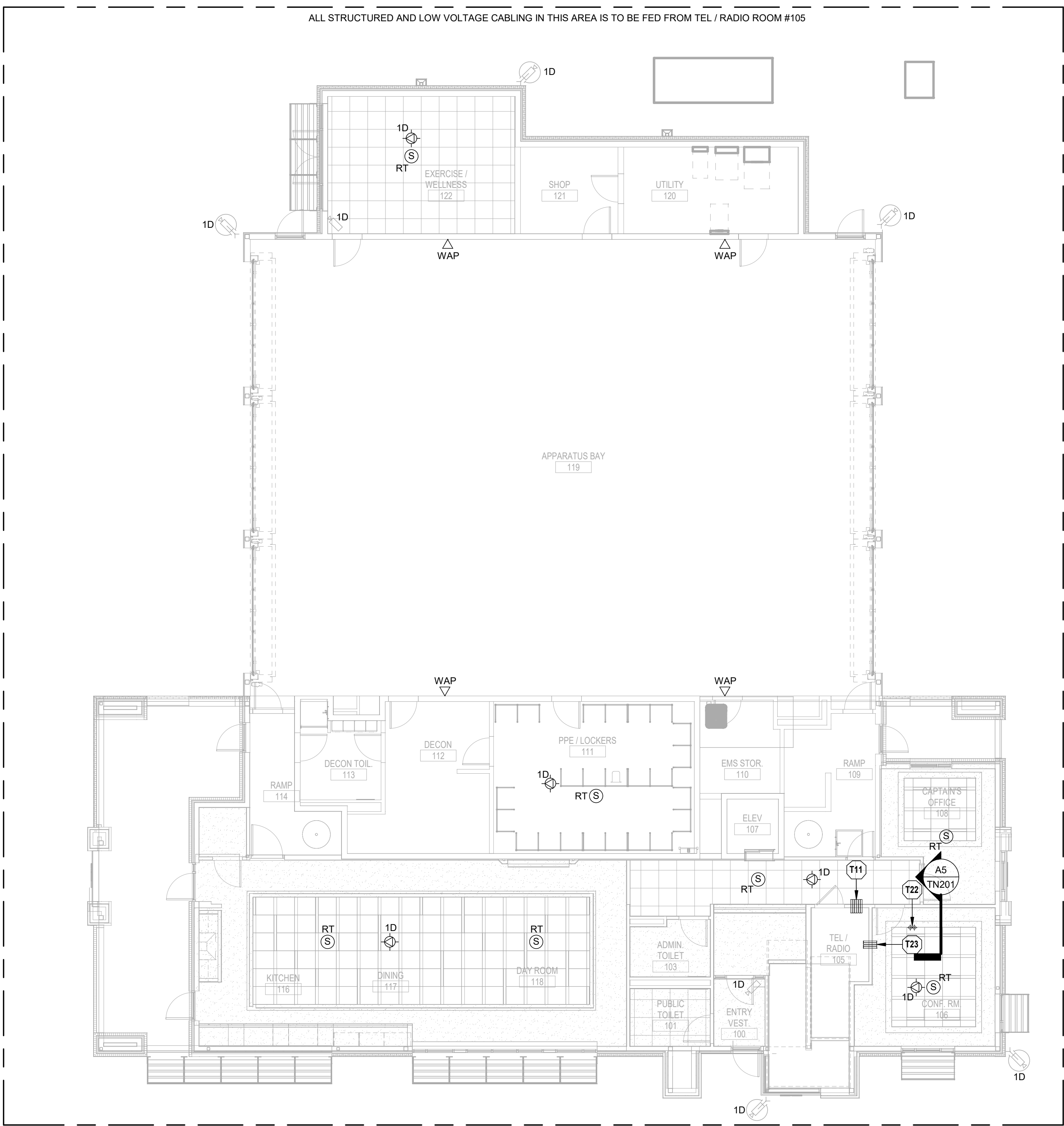




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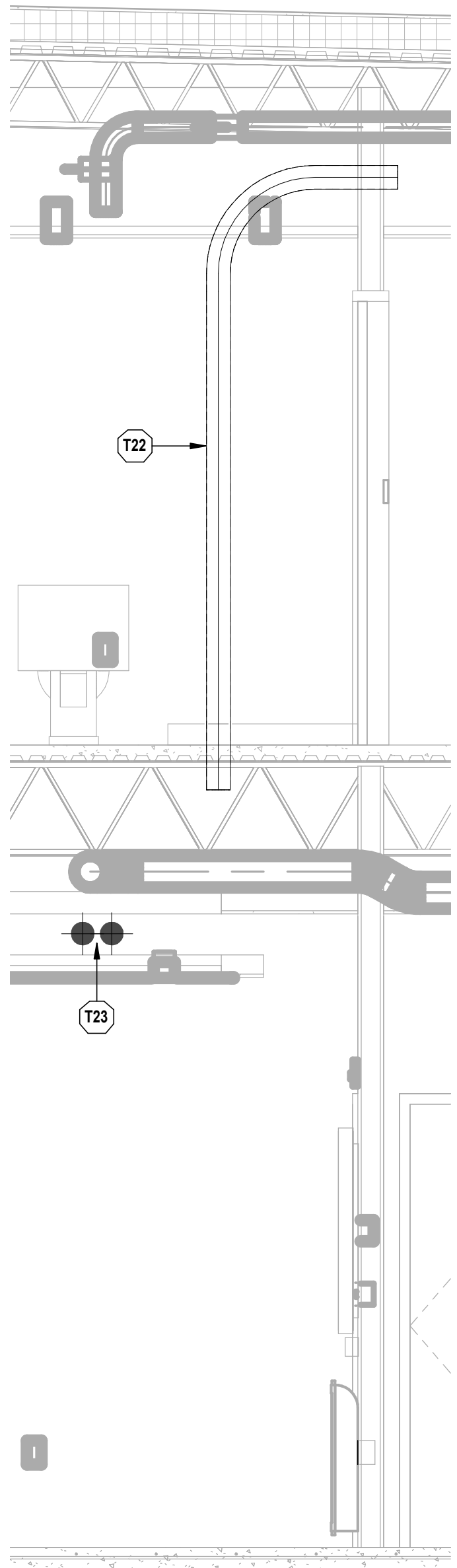
A1

TECHNOLOGY LEVEL 1 RCP

1/8" = 1'-0"

0 4' 8' 16'

PLAN NORTH

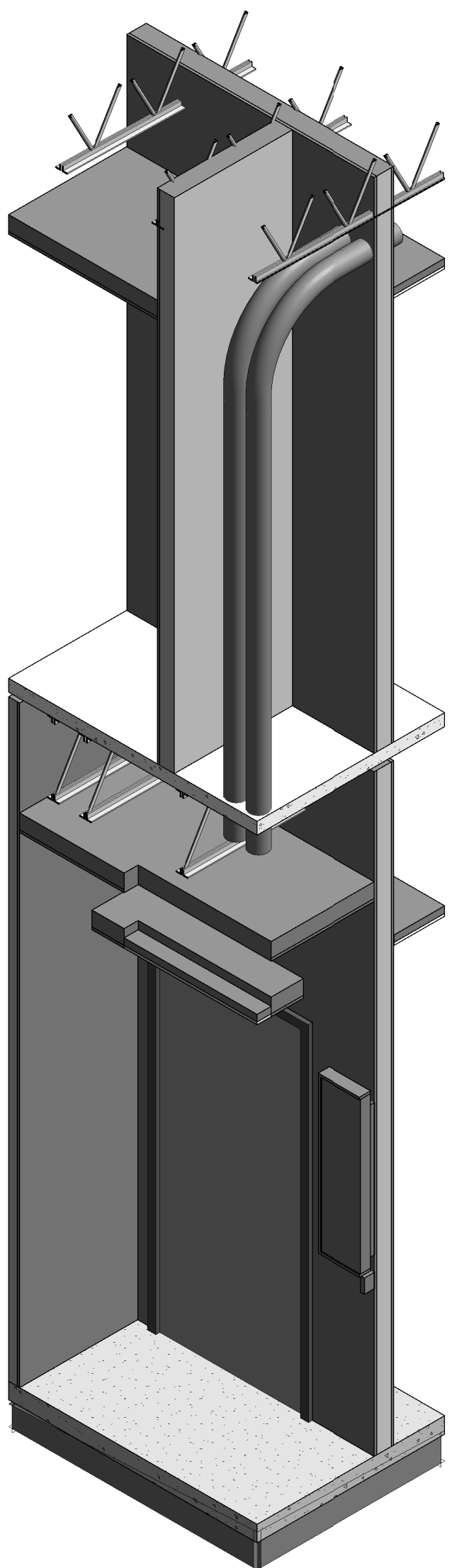


A5

LEVEL 2 CONDUIT PATHWAY

1/2" = 1'-0"

0 4' 8' 16'



A7

LEVEL 2 CONDUIT PATHWAY

0 4' 8' 16'

- **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.

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FIRE STATION #5

CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY

LEE'S SUMMIT, MISSOURI 64064

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STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER

MARK D. MAURER
NUMBER E-28923

10/26/2022

PROJECT NO: 2150001291

DATE: 10.26.2022

DRAWN BY: J.CORONADO

CHK'D BY: M.MAURER

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TECHNOLOGY
LEVEL 1 RCP

TN201

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MARK D. MAURER

E

D

C

B

A

1

2

3

4

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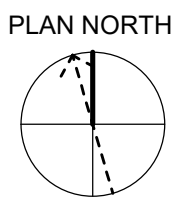
TECHNOLOGY PLAN NOTES:

- 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.

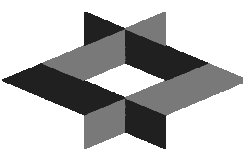


A1 TECHNOLOGY LEVEL 2 RCP
1/8" = 1'-0"

0 4' 8' 16'



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FIRE STATION #5
CITY OF LEE'S SUMMIT
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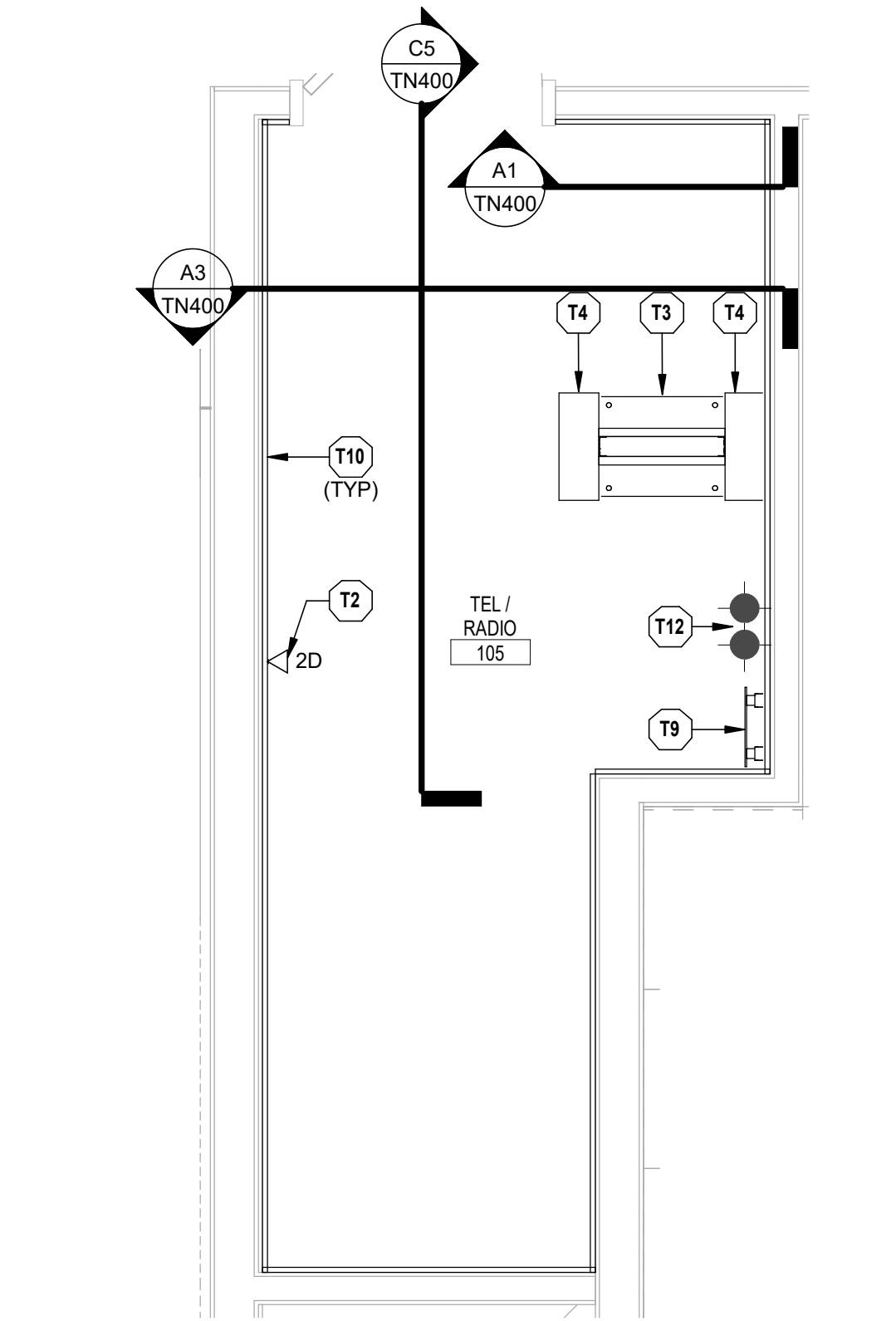
TECHNOLOGY
LEVEL 2 RCP

TN202

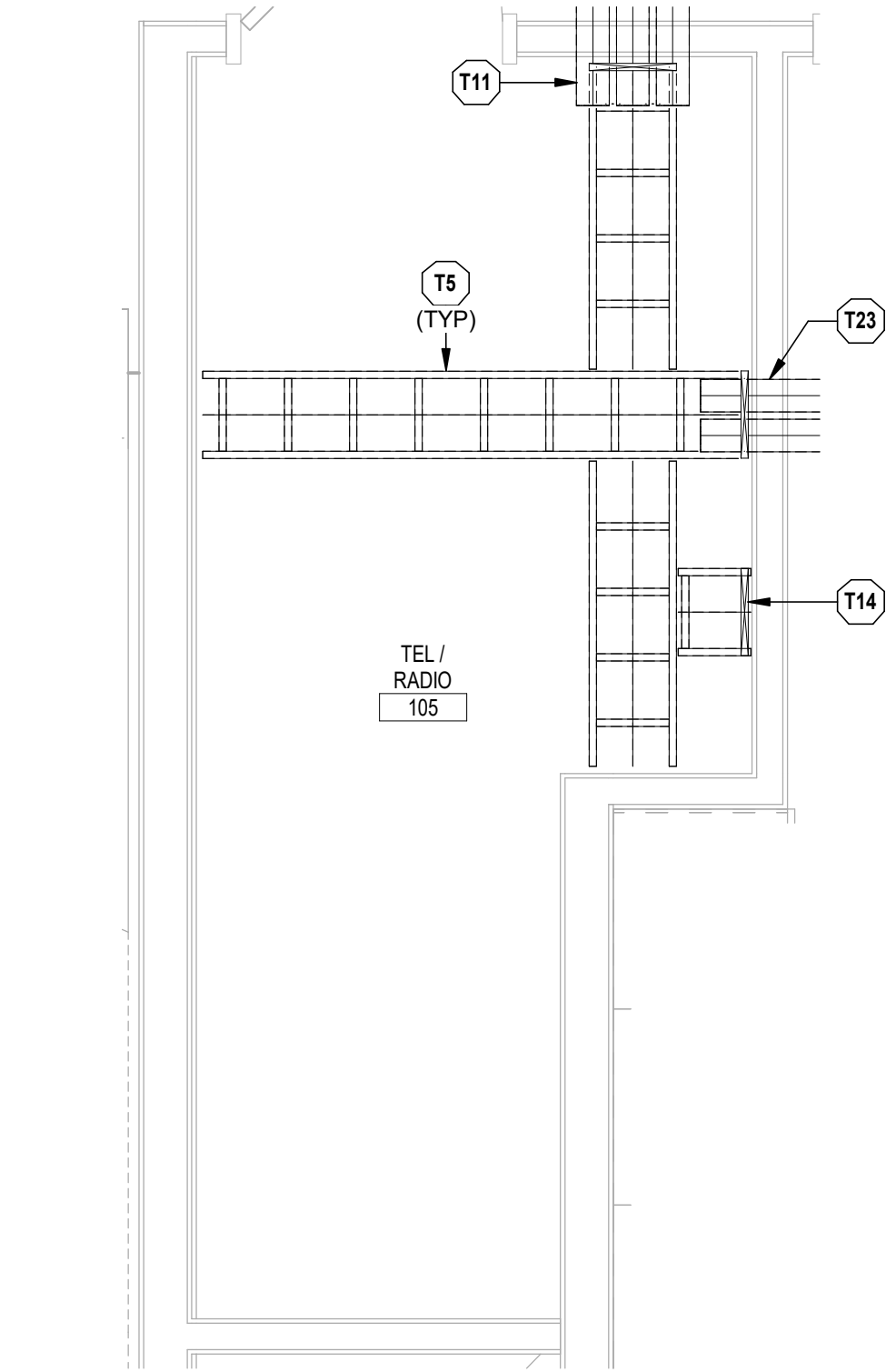
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MARK D. MAURER

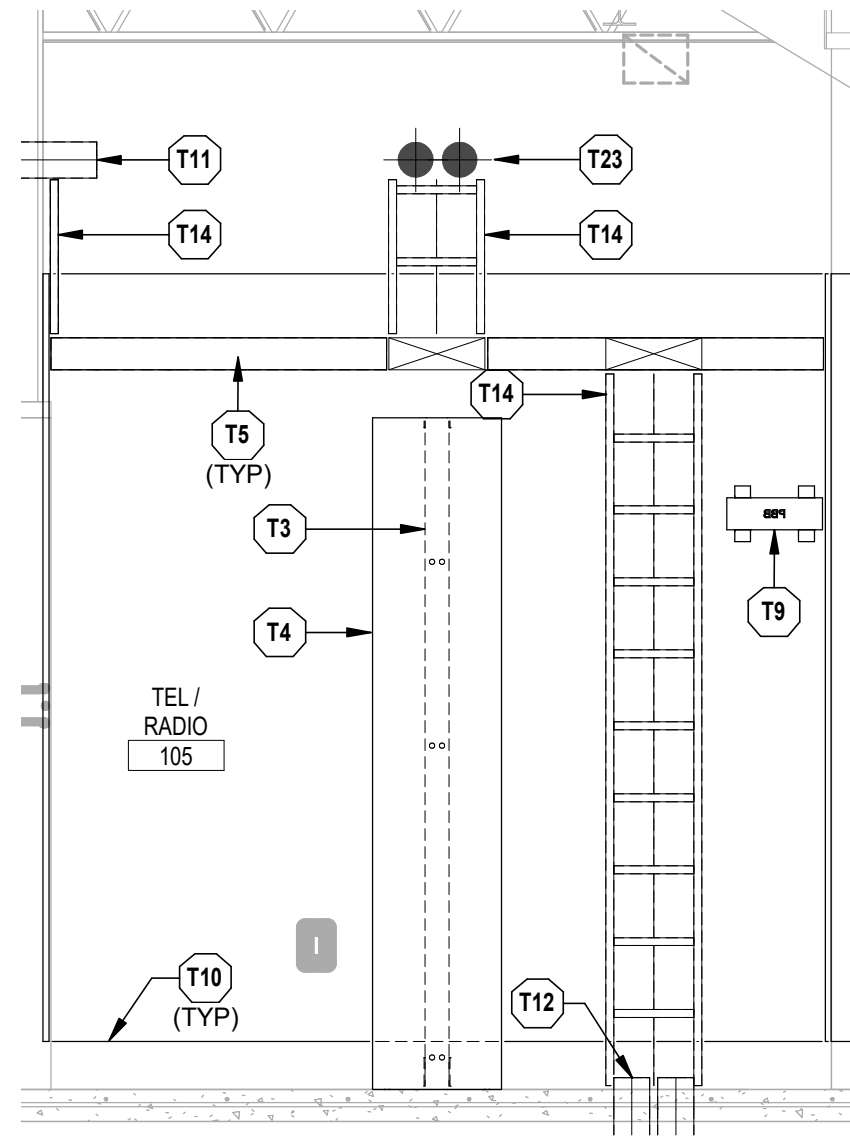
E
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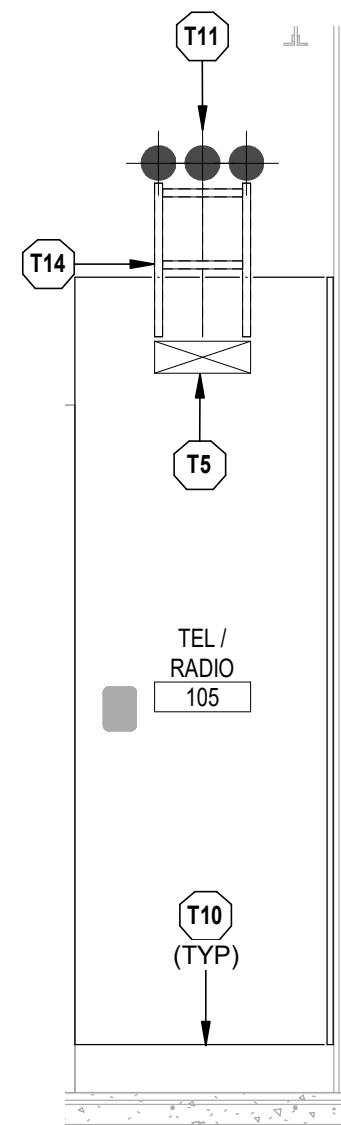
C1 TEL/RADIO #105 - ENLARGED PLAN
1/2" = 1'-0"



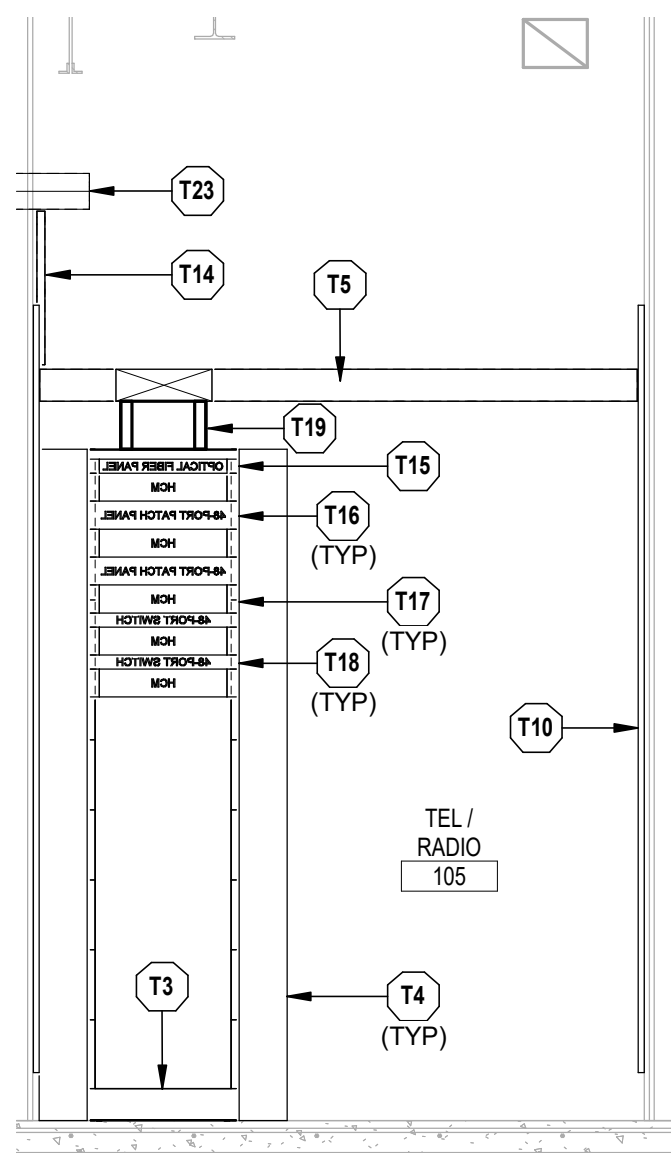
C3 TEL/RADIO #105 - PATHWAY PLAN
1/2" = 1'-0"



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"

- 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.



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10/26/2022

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DATE: 10.26.2022
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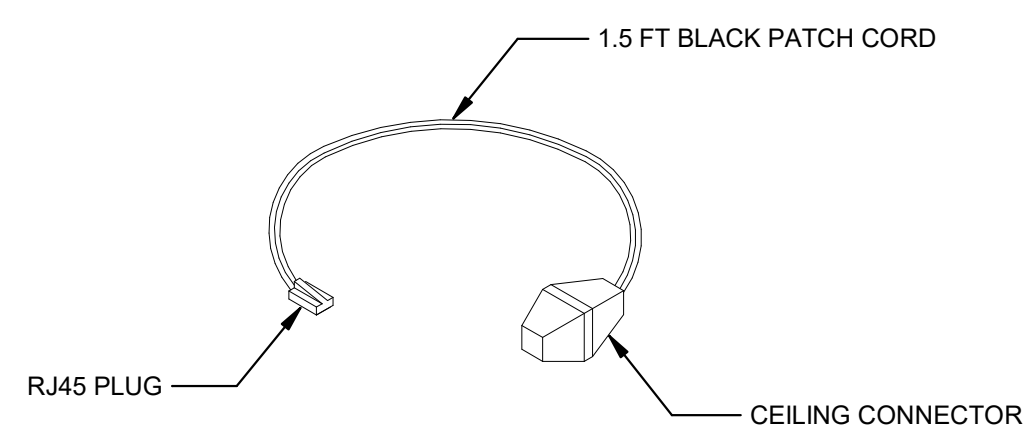
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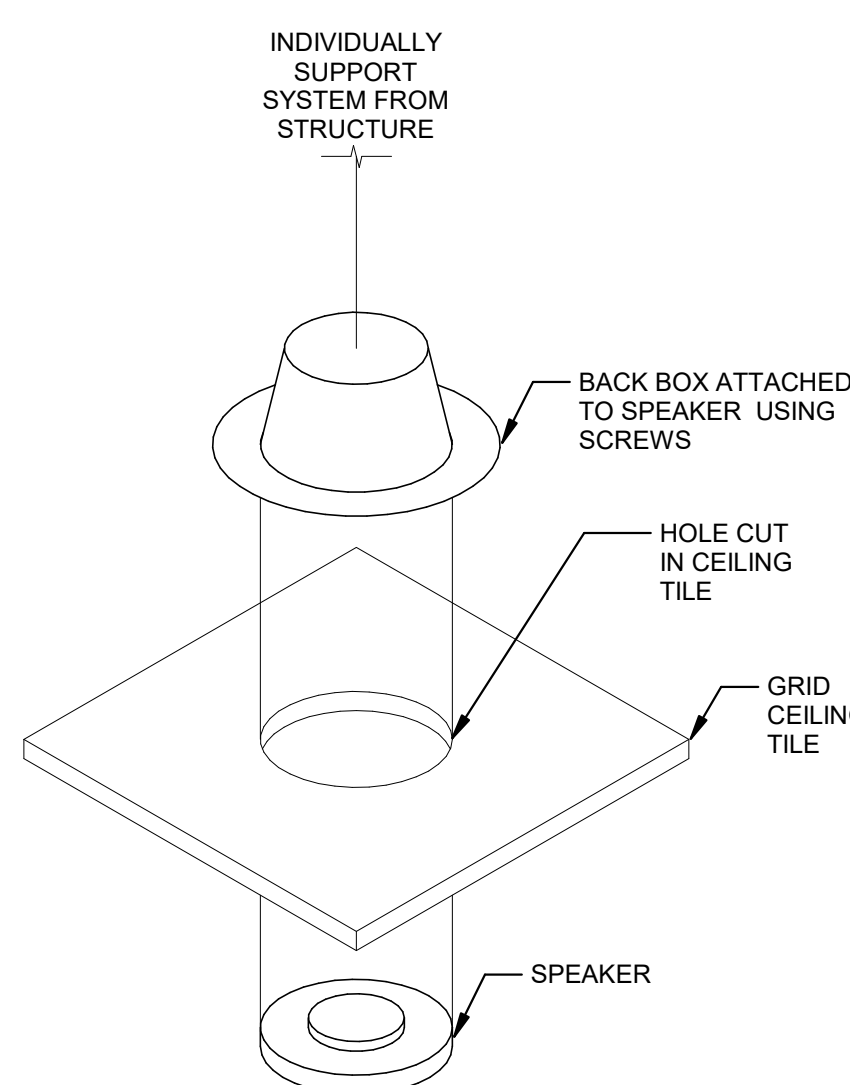
ENLARGED
PLANS

TN400

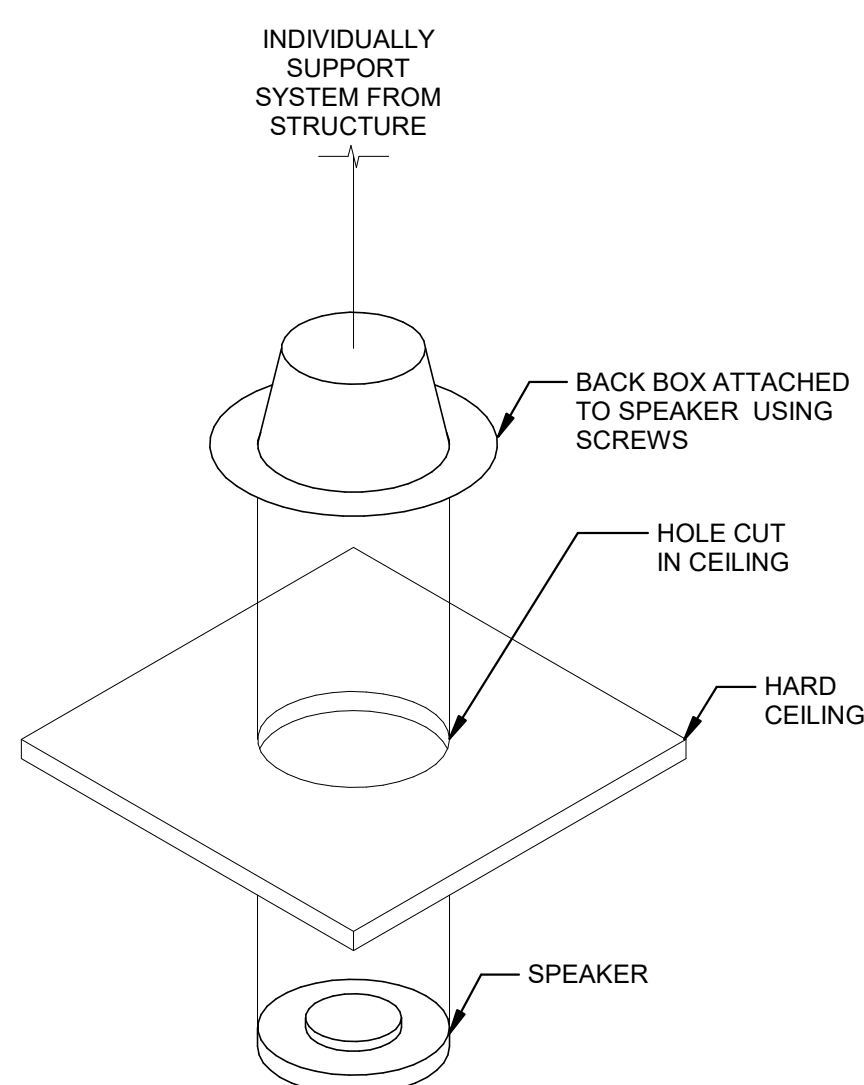
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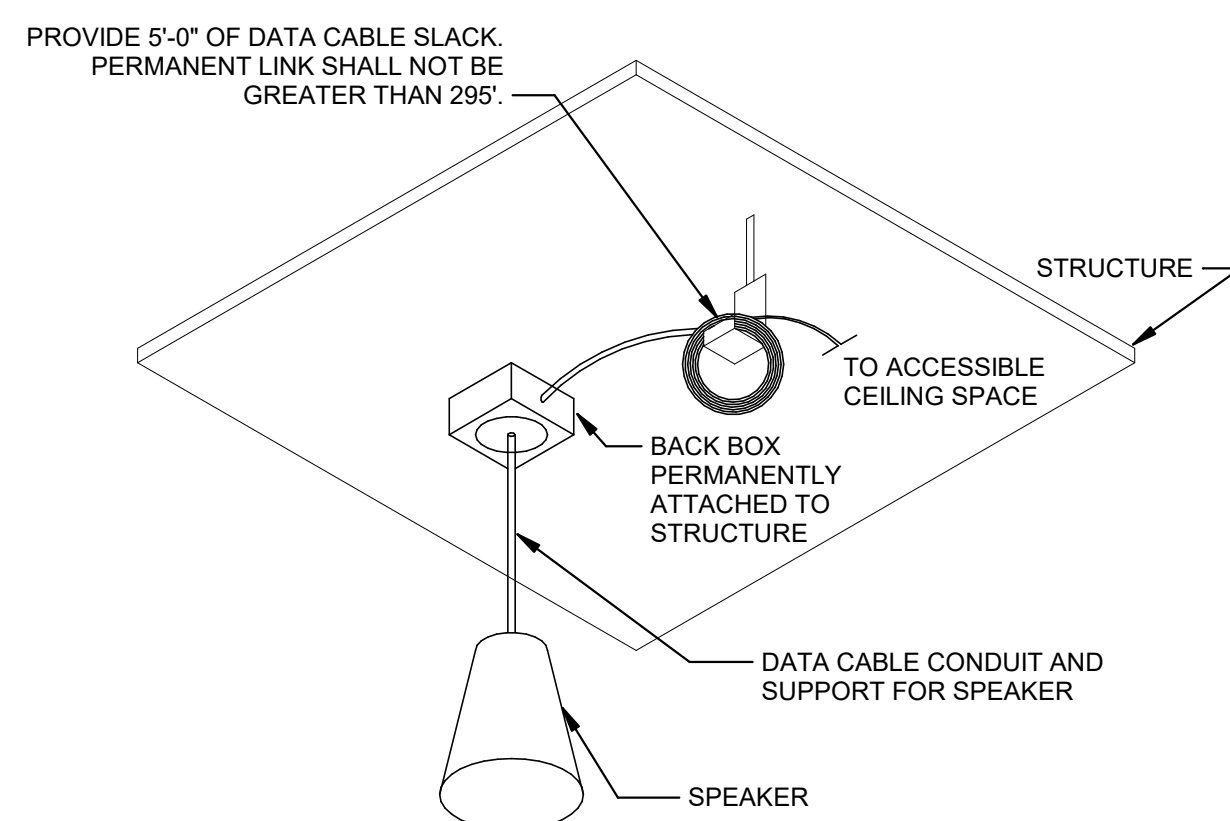
E1 ACCESS POINT CONNECTOR ASSEMBLY
NOT TO SCALE



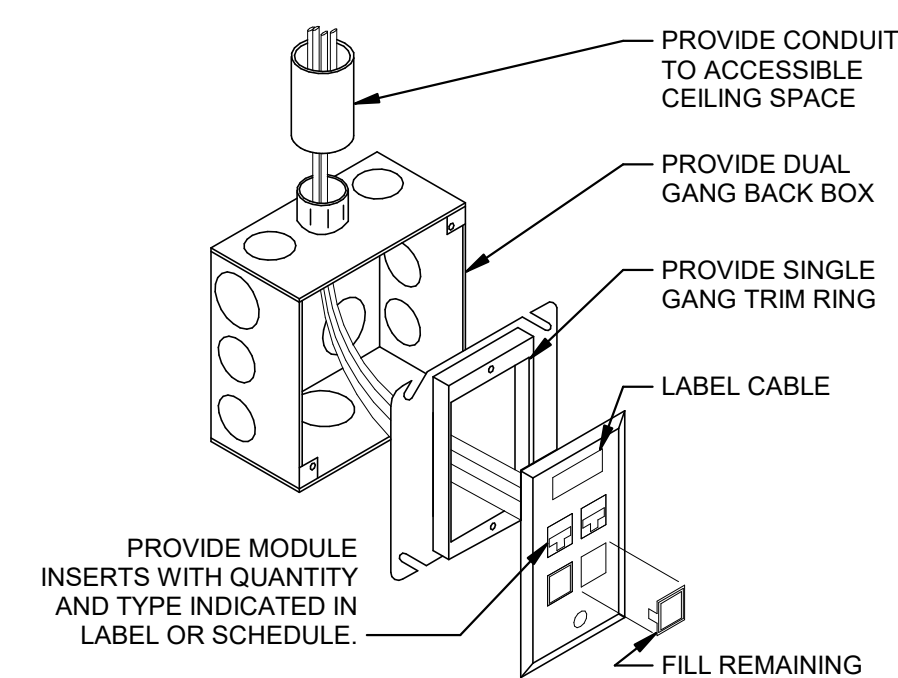
PAGING SPEAKER FOR ACCESSIBLE CEILING



PAGING SPEAKER FOR HARD CEILING



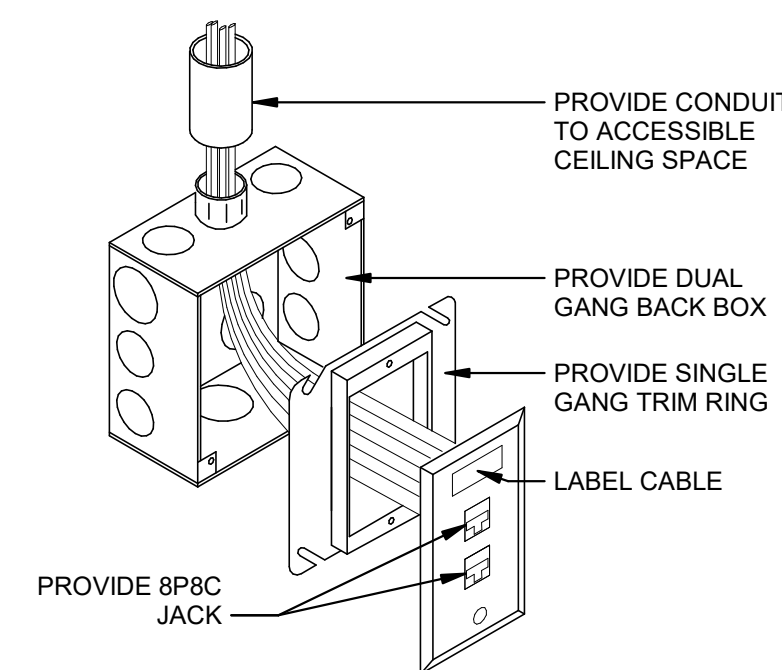
PAGING SPEAKER FOR EXPOSED CEILING



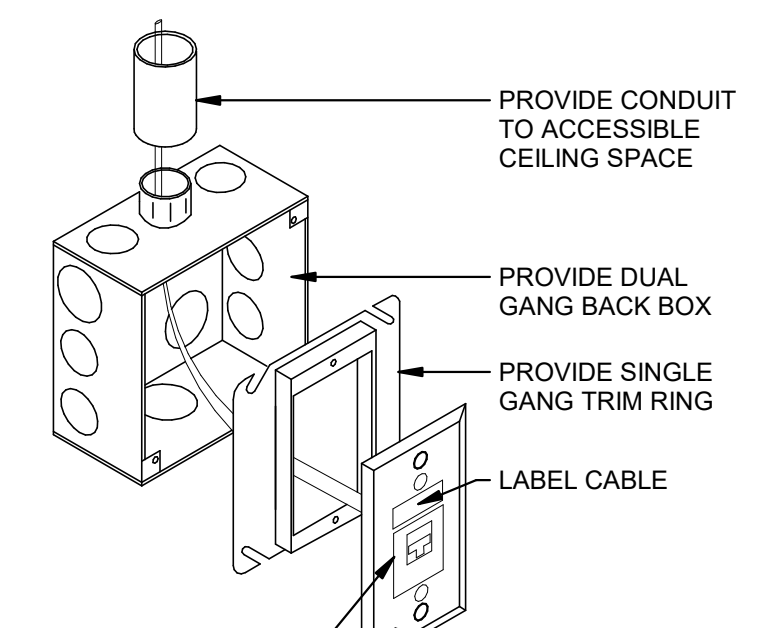
FOR COMMUNICATIONS
OUTLETS WITH 4 OR LESS
JACKS/MODULES

(SYMBOL $\nabla^{\#}, \nabla^{\#}$)

(D5) SINGLE GANG COMM OUTLET (3D)
NOT TO SCALE

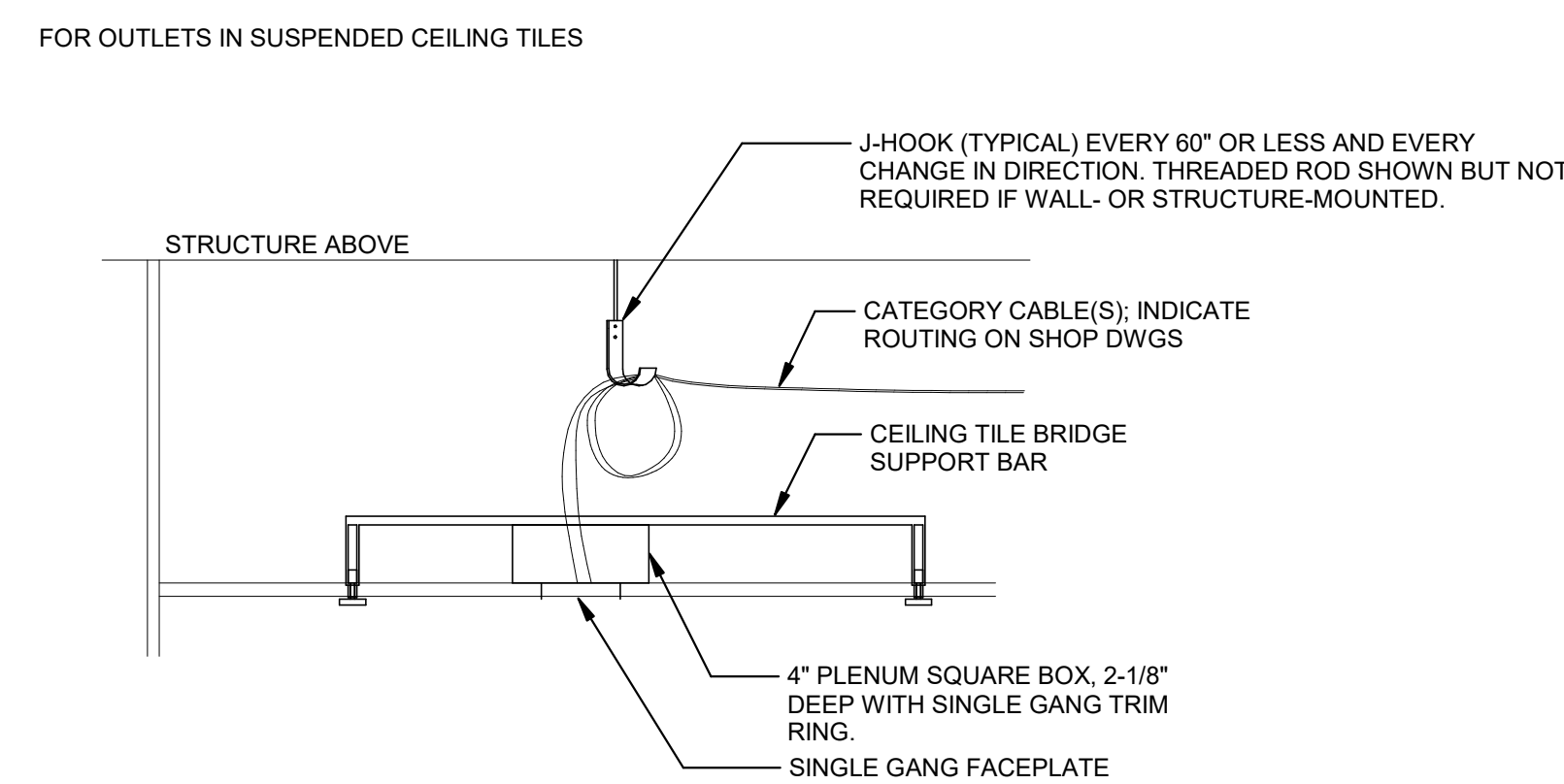


(SYMBOL $\langle T^\# \rangle$)

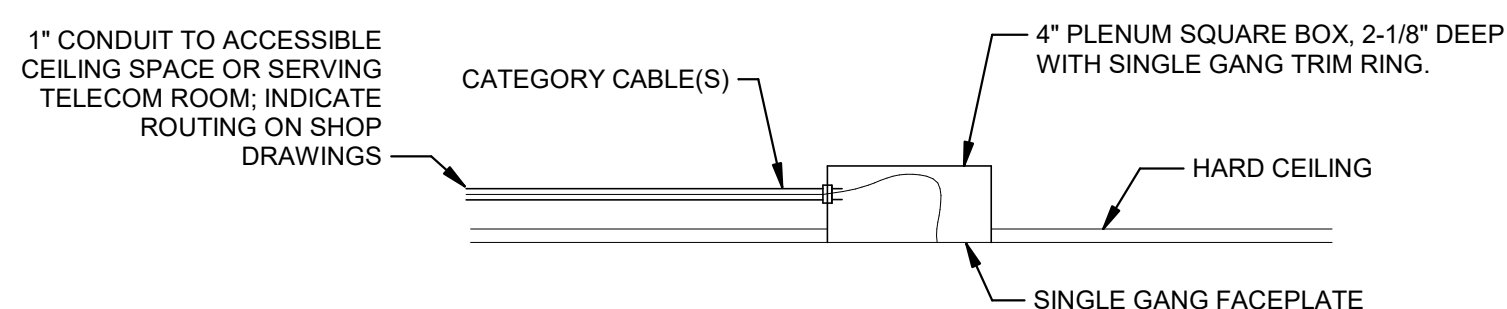


(SYMBOL ∇^W)

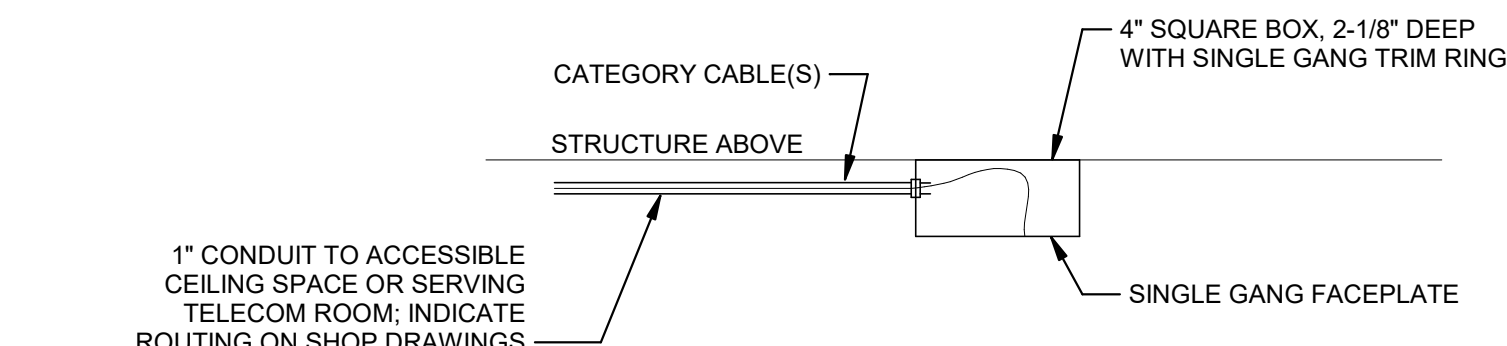
(D7) WALL PHONE OUTLET (3D)



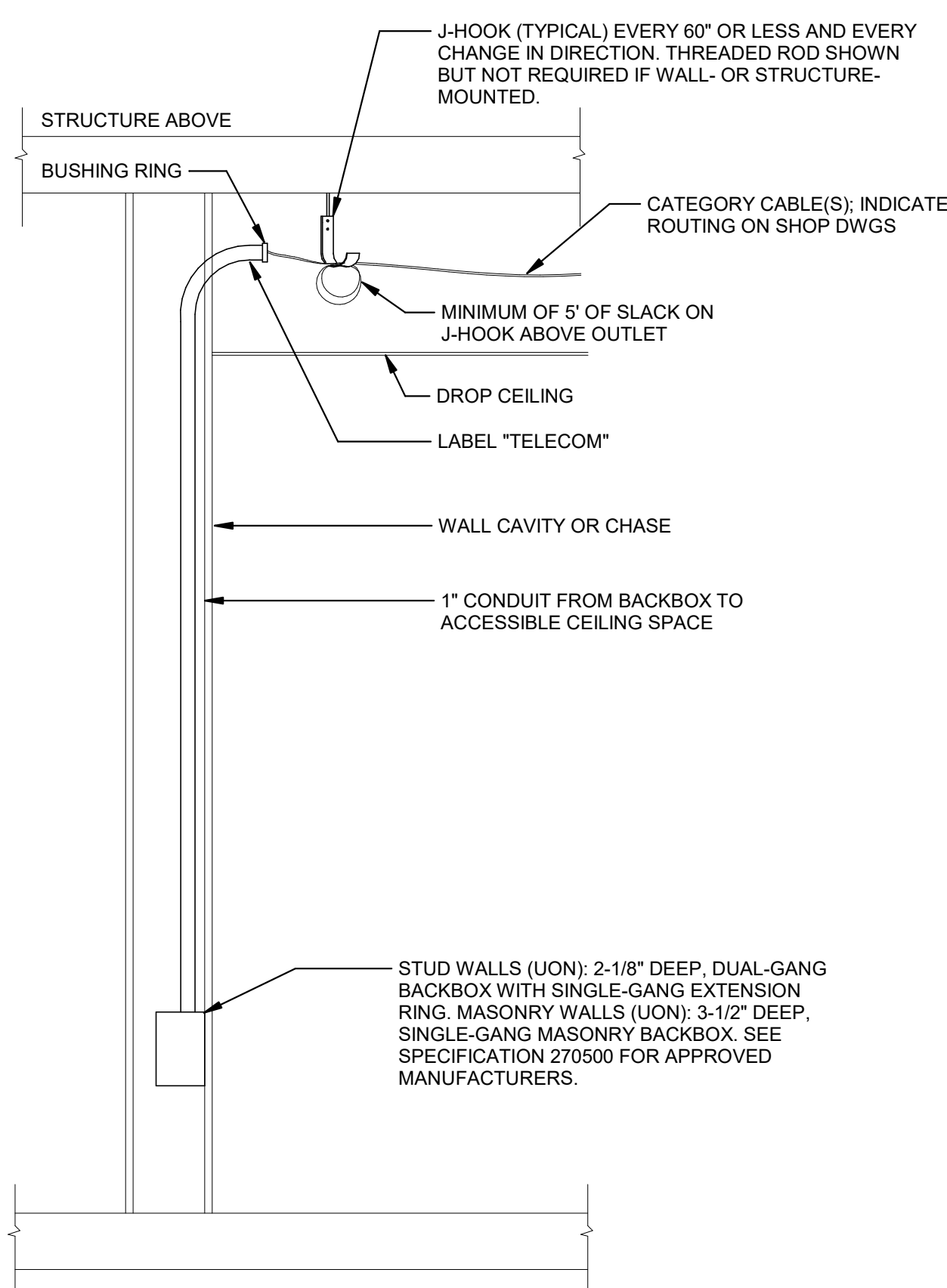
FOR OUTLETS IN GYPSUM BOARD CEILINGS



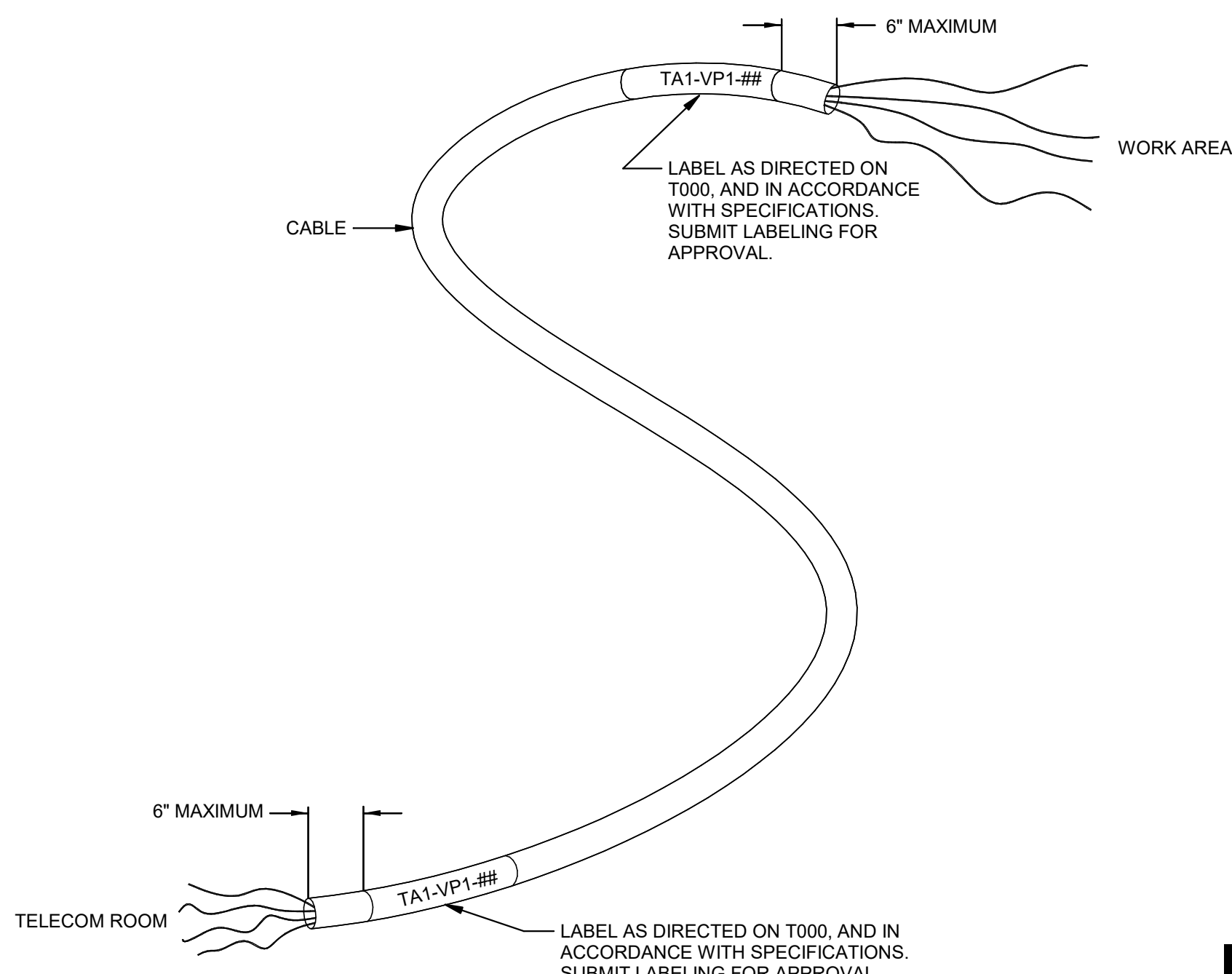
FOR OUTLETS IN EXPOSED TO STRUCTURE AREAS



A1 CEILING COMM OUTLET 2D



A3 COMMUNICATIONS OUTLET MOUNTING
NOT TO SCALE



A6 LABELING OF HORIZONTAL CABLE



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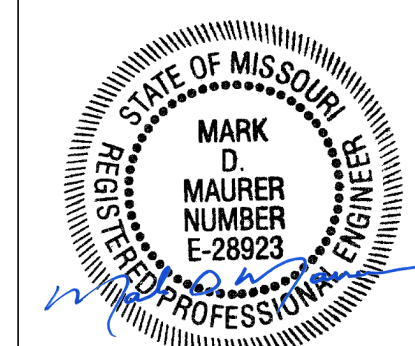
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FIRE STATION #5
CITY OF LEE'S SUMMIT
6031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

#	Description	Date
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#	Description	Date
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10/26/2022

PROJECT NO: 21500012

PROJECT NO.:	21500072
DATE:	10.26.20

DATE:	10/20/20
DRAWN BY:	J. CORONA

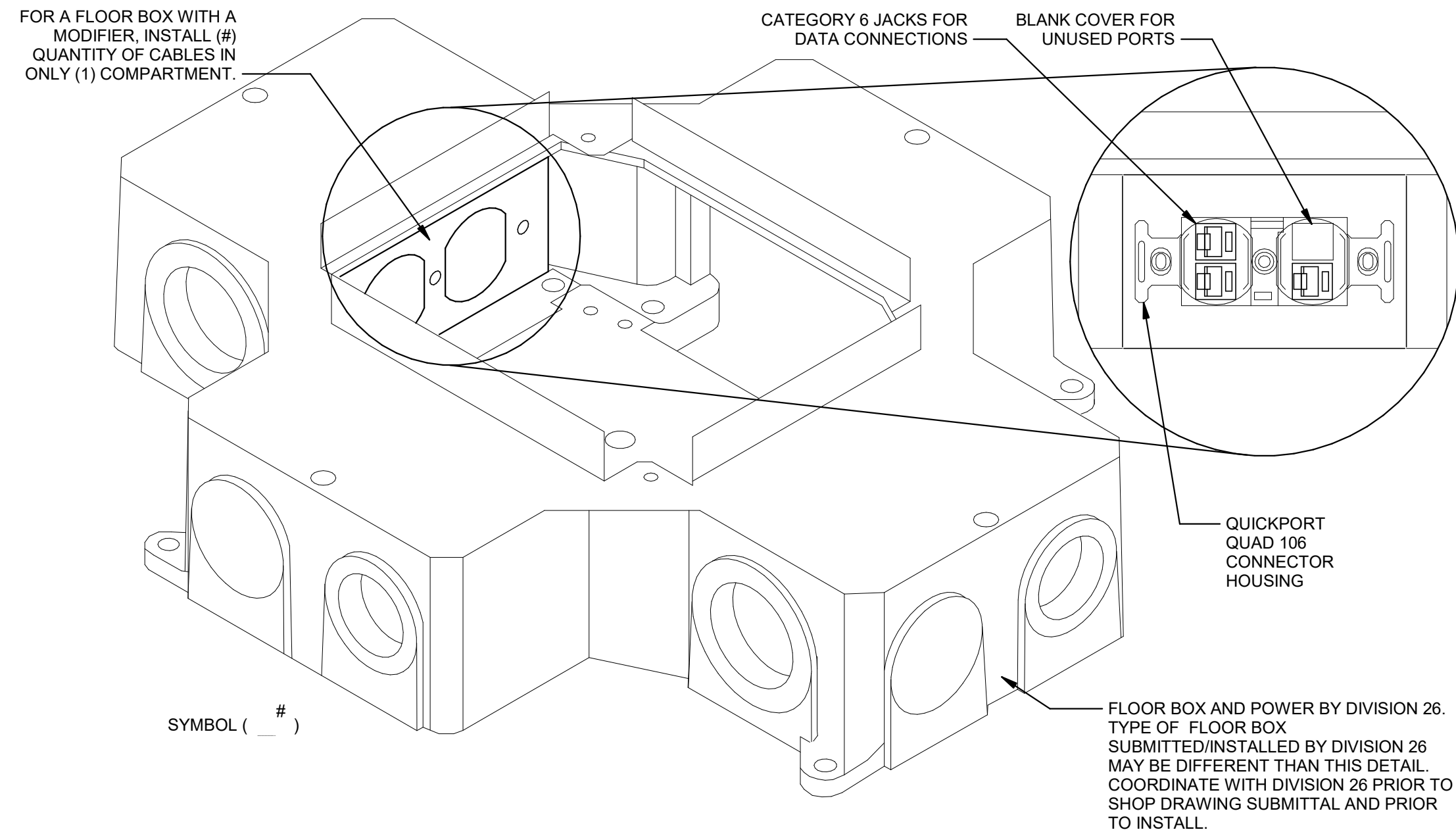
DRAWN BY:	J. CORONA
CHECKED BY:	M. MAUR

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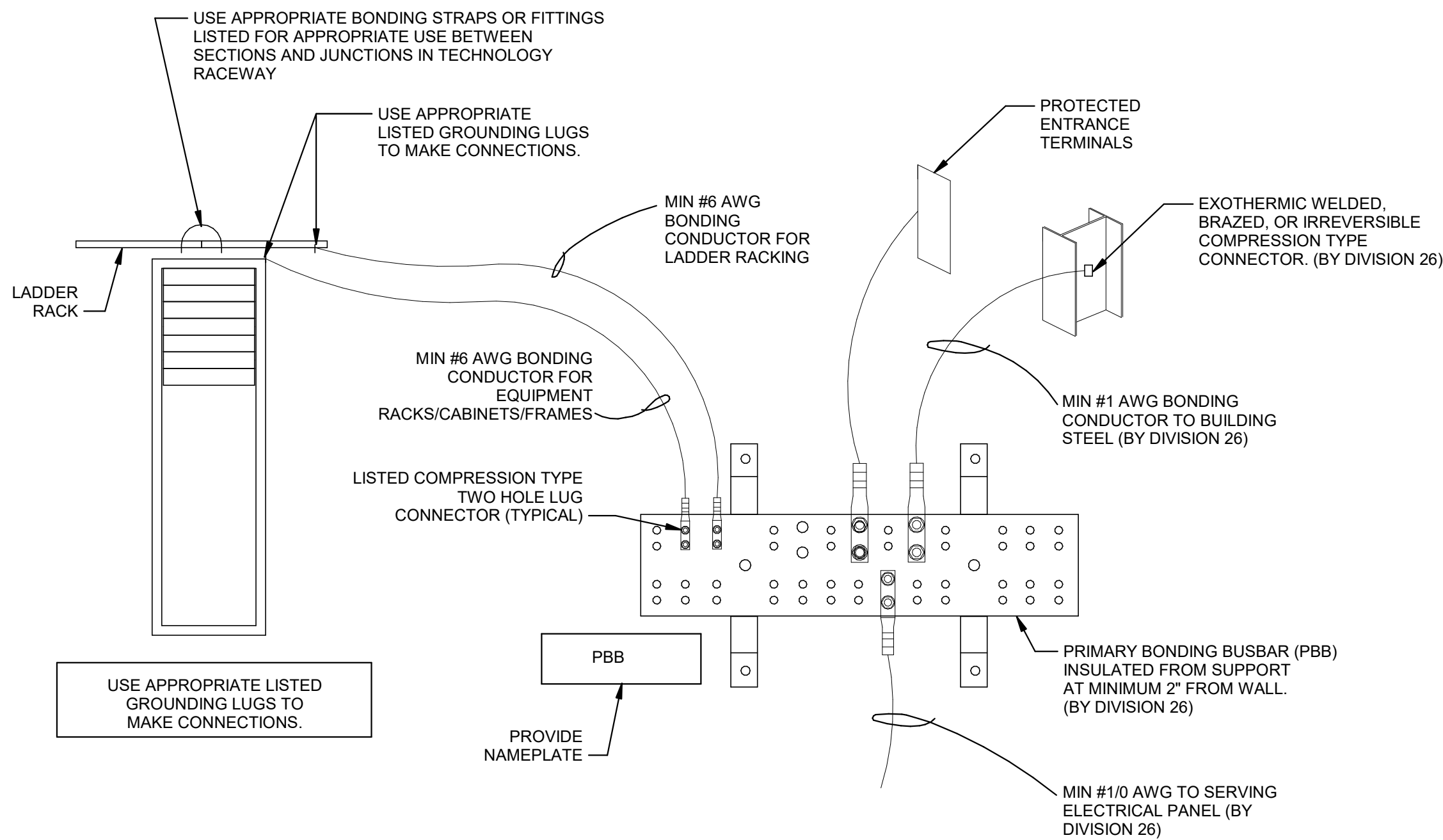
TN500

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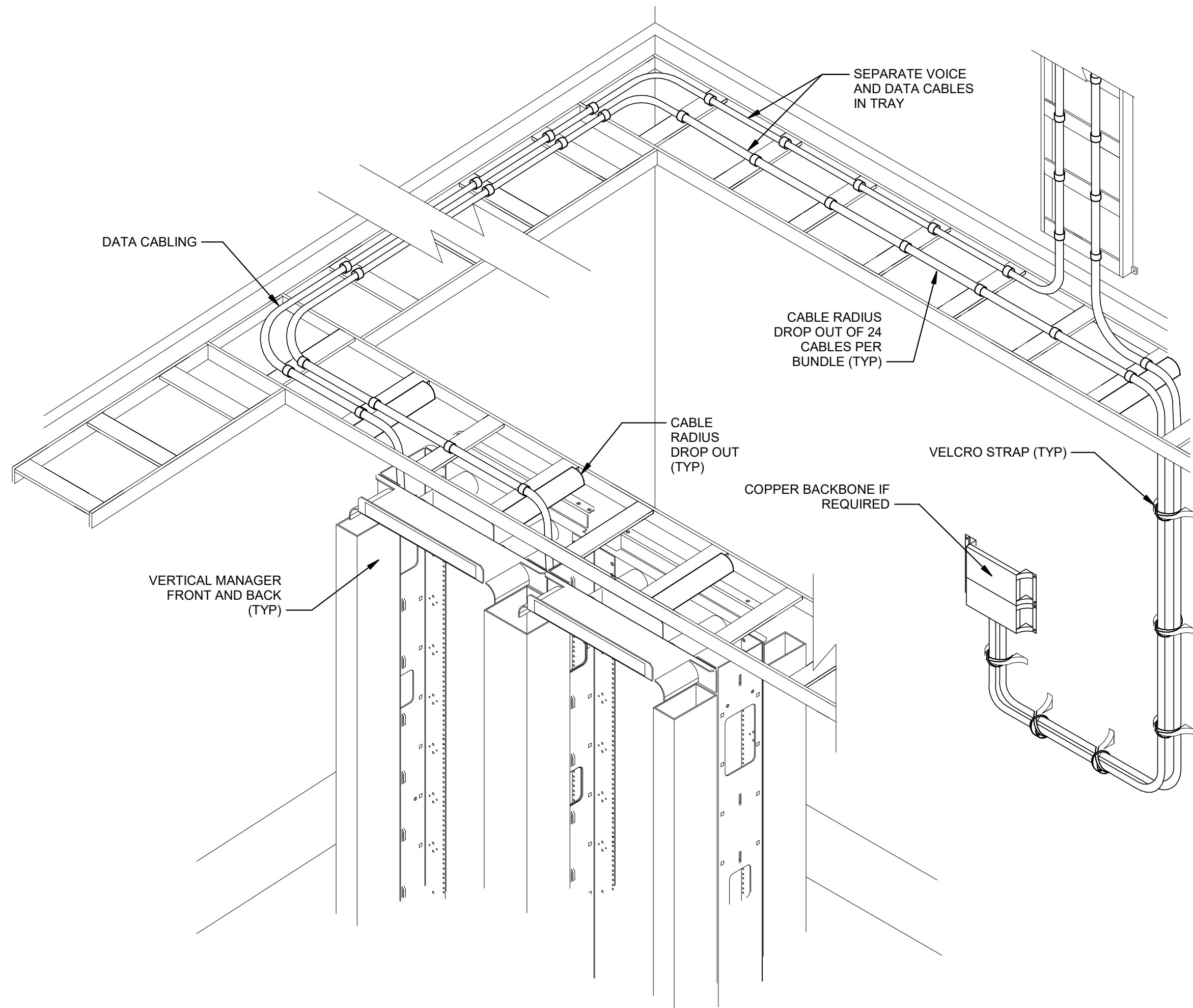
D1 FLOOR BOX

NOT TO SCALE



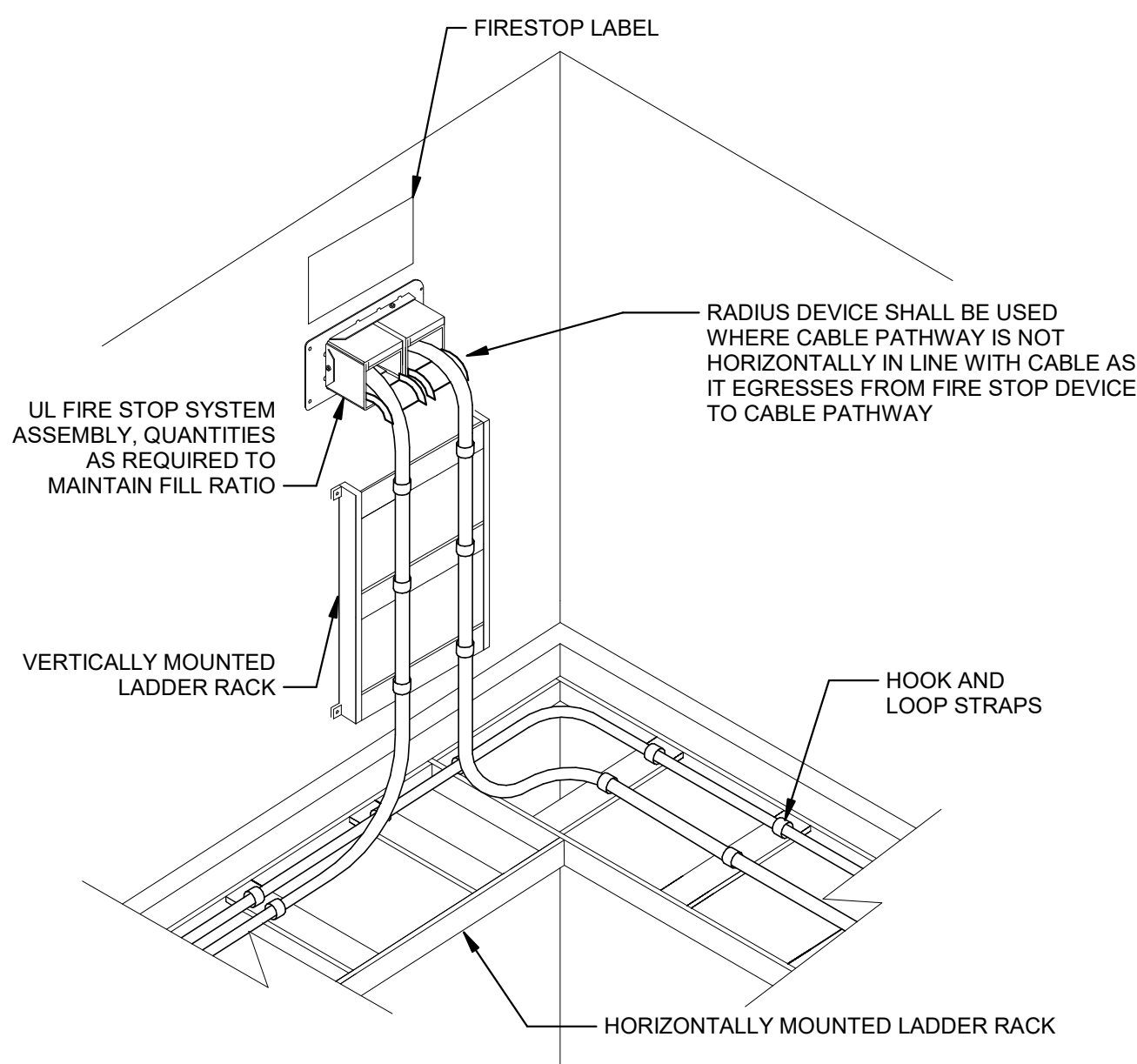
D5 PBB CONNECTIONS DIAGRAM

NOT TO SCALE



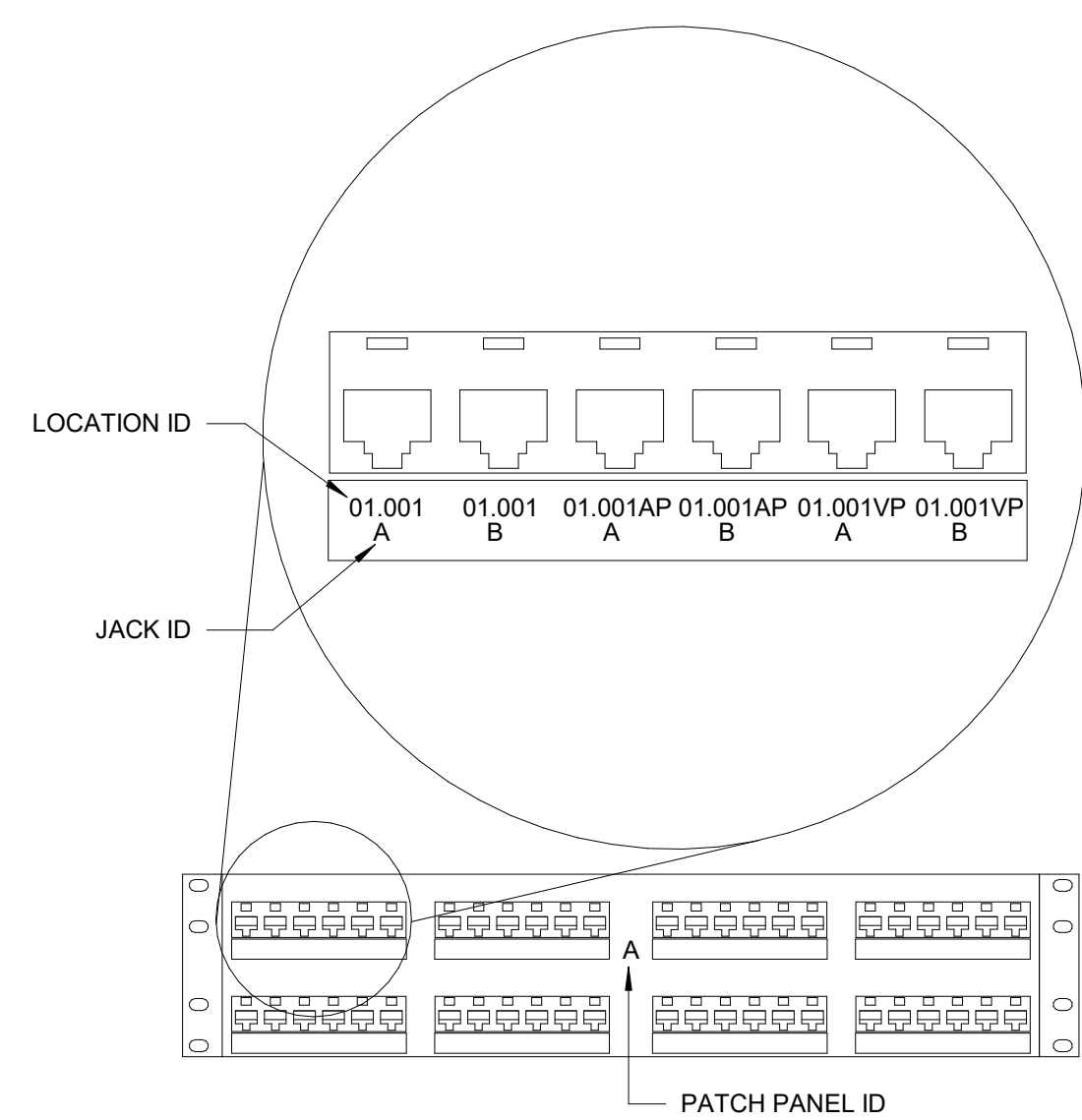
A1 TELECOM ROOM TRAY ALIGNMENT, BEND RADIUS TREATMENT

NOT TO SCALE



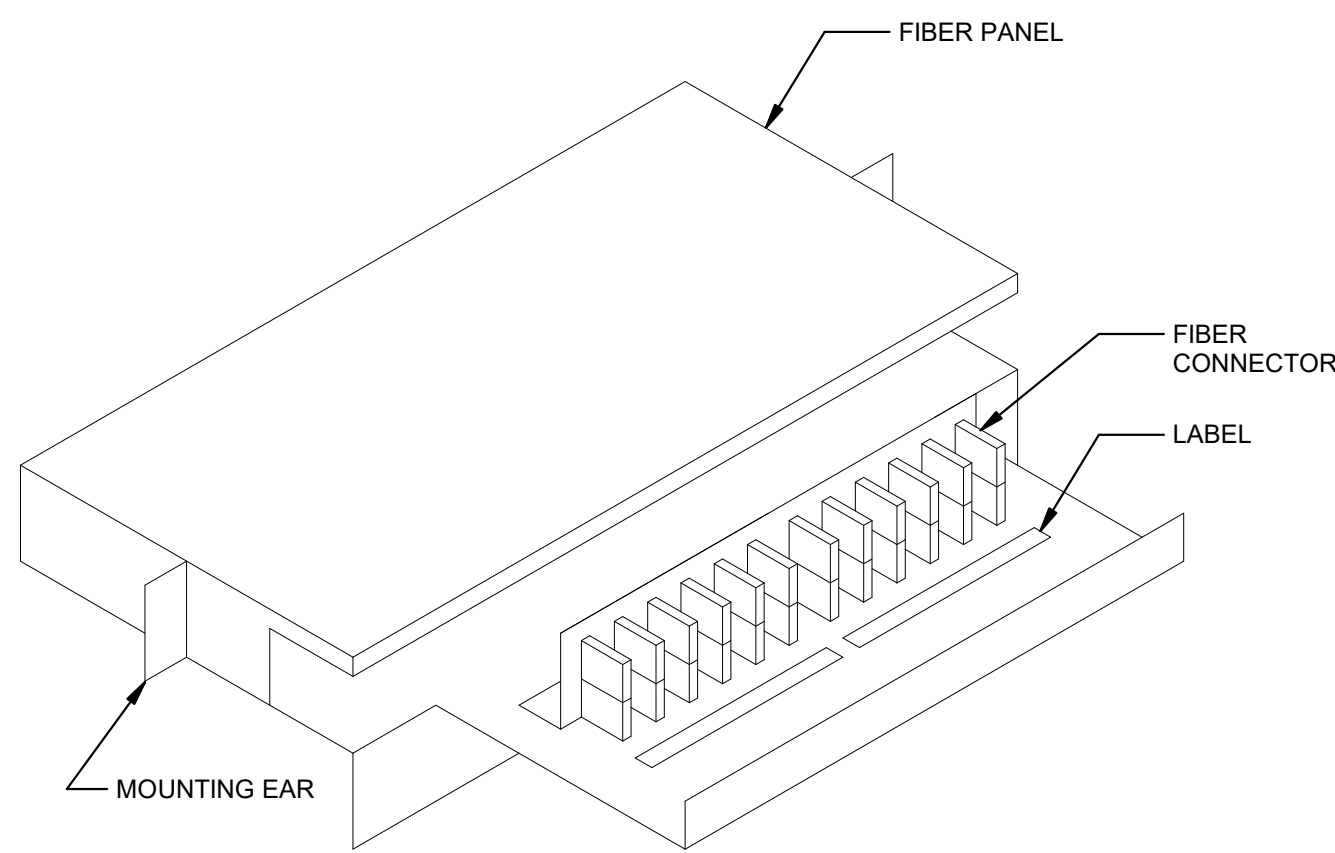
B4 FIRE STOP SYSTEM

NOT TO SCALE



B7 TYPICAL PATCH PANEL LABELING DETAIL

NOT TO SCALE



A4 FIBER PANEL

NOT TO SCALE

#	Description	Date
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MARK D. MAURER





















































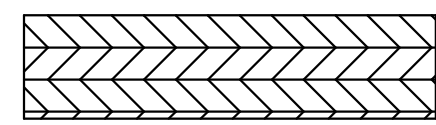

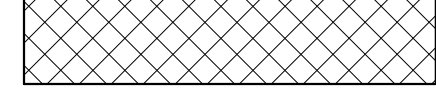

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C

B

A

SECURITY SYMBOLS														
THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.														
V2.1														
STANDARD MOUNTING HEIGHTS			SECURITY SYMBOLS			CAMERA TYPE SCHEDULE								
INTERCOM (OPERABLE PART)		48"			AREA OF REFUGE CALL BOX	TYPE	FORM FACTOR	DESCRIPTION	LOCATIONS	IMAGER SIZE RESOLUTION	POWER	MODELS	COLOR	COMMENTS
CARD READER (CENTER OR TOP WHERE OPERABLE PARTS EXIST)		48"			PROXIMITY CARD READER			VANDAL DOME CAMERA	INDOOR/ OUTDOOR	5MP	POE	AVIGILON H5A	WHITE	DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.
EMERGENCY LOCK RELEASE		48"			CLIENT WORKSTATION WHERE X = NUMBER OF MONITORS	01								
EMERGENCY PHONE (OPERABLE PARTS)		48"			(AC) ACCESS CONTROL (SM) SECURITY MANAGEMENT (TS) TOUCHSCREEN CONTROL (VS) VIDEO SURVEILLANCE	02		360 DEGREE MULTISENSOR CAMERA	OUTDOOR	MULTI-SENSOR	HPOE	AVIGILON 360°	WHITE	DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.
ABBREVIATIONS			CARD READER TYPE SCHEDULE											
A AMPS		KVM			DOOR ANNUCATOR	TYPE	FORM FACTOR	TECHNOLOGY	LOCATIONS	READ RANGE	POWER	MODELS	COLOR	COMMENTS
ACP ACCESS CONTROL PANEL					DOOR BELL (PB) PUSH BUTTON (CH) CHIME	01		RFID	INDOOR/ OUTDOOR		PANEL	HID SIGNO 40	BLACK	DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.
ADA AMERICANS WITH DISABILITIES ACT					DOOR POSITION SWITCH ONLY SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE	02		RFID	INDOOR/ OUTDOOR		PANEL	HID SIGNO 20	BLACK	DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.
AFC ABOVE FINISHED CEILING		LF			DOOR POSITION SWITCH AND LATCHBOLT MONITOR SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE	INTERCOM TYPE SCHEDULE								
AFF ABOVE FINISHED FLOOR		MBS			ELECTRIFIED LOCKING DEVICE, REQUEST TO EXIT, DOOR POSITION SWITCH, AND LATCH BOLT MONITOR SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE	TYPE	FORM FACTOR	DESCRIPTION	LOCATIONS	SPEAKER	POWER	MODELS	COLOR	COMMENTS
AFG ABOVE FINISHED GRADE		MDF			ELECTRIFIED LOCKING DEVICE SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE			IP ADDRESSABLE VIDEO DOOR STATION	INDOOR/ OUTDOOR	HANDS-FREE	POE		BLACK	DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.
AHJ AUTHORITY HAVING JURISDICTION		MFR			EMERGENCY PHONE									
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE		MH			GLASS BREAK DETECTOR									
AV AUDIO-VIDEO		MM			INTERCOM (CR) WITH CARD READER (DS) DOOR STATION (RS) RECEIVING (MASTER) STATION (VS) VIDEO STATION									
AWG AMERICAN WIRE GAUGE		MPOE			INMATE PHONE									
BAS BUILDING AUTOMATION SYSTEM		MPOP			KEYPAD (ID) INTRUSION DETECTION SYSTEM (AC) ACCESS CONTROL									
BD BUILDING DISTRIBUTOR		MTD			LIGHTING CONTROL RELAYS									
BDF BUILDING DISTRIBUTION FRAME		N/A			MOTION DETECTOR									
BFC BELOW FINISHED CEILING		NIC			PANIC ALARM THREE-COLOR INDICATOR LIGHT									
BR BIOMETRIC READER		OC			PANIC/DURESS BUTTON									
C CONDUIT		OSH			REQUEST-TO-EXIT PUSH PAD									
CAT CATEGORY		OSP			REMOTE UNLOCK/OPEN BUTTON									
CC CENTRAL CONTROL		POE			MICROPHONE STATUS LIGHT, WALL MOUNT									
CCTV CLOSED CIRCUIT TELEVISION		PON			MICROPHONE									
CD CAMPUS DISTRIBUTOR		QTY			MICROPHONE MUTE ILLUMINATED SWITCH									
CMP COMMUNICATIONS PLENUM JACKET		(R)			SPEAKER (DOOR BELL)									
CMR COMMUNICATIONS RISER JACKET		(RE)			PAGING SPEAKER									
(D) REMOTE DEVICE		RMC			VAULT MONITOR									
DAS DISTRIBUTED ANTENNA SYSTEM		RMS			WATER CONTROL VALVE VALVE BY DIVISION 22. CONTROL BY DIVISION 28									
dB DECIBELS		RU			WATCH TOUR									
DCS DOOR CONTROL SYSTEM		SCS												
DEMO DEMOLITION		SF												
DSP DIGITAL SIGNAL PROCESSOR		SM												
DVR DIGITAL VIDEO RECORDER		SP												
(E) EXISTING DEVICE		TBD												
EC ELECTRICAL CONTRACTOR		TIA												
ECIA ELECTRONIC COMPONENTS INDUSTRY ASSOCIATION		TGB												
EMI ELECTROMAGNETIC INTERFERENCE		TMGB												
EMS ENERGY MANAGEMENT		TR												
EMT ELECTRICAL METALLIC TUBING		TYP												
ER EQUIPMENT ROOM		UNO												
(ETR) EXISTING TO REMAIN		UL												
(F) DOOR FRAME MOUNTED DEVICE		UPS												
FAAP FIRE ALARM ANNUNCIATOR		UPSDP												
FACP FIRE ALARM CONTROL		FLOOR												
FD FLOOR DISTRIBUTOR		PANEL												
FMC FLEXIBLE METAL CONDUIT		V												
FOR FIBER OPTIC RACK		VCM												
FS FIRE STOP SYSTEM		VMS												
FLR FLOOR		WAO												
GC GENERAL CONTRACTOR		WP												
(GT) GUARD TOUR		WR												
GYP GYPSUM BOARD		WT												
HH HAND HOLE		XP												
HZ HERTZ														
IMC INTERMEDIATE METAL CONDUIT														
ICS INTERCOM CONTROL SYSTEM														
IP INTERNET PROTOCOL														
ISP INSIDE PLANT CABLE														
J-BOX JUNCTION BOX														
(K) ELECTRICALLY OPERATED BY KEY														
KP KEY PAD														
() - INDICATES MODIFIER FOR SPECIAL OPERATION IN LABELING SCHEME			SECURITY CAMERAS											
ANNOTATION			MOUNTING TYPE SYMBOLS (APPLIES TO ANY SECURITY DEVICE SYMBOL)											
		SECURITY PLAN CALLOUT			CEILING MOUNT			TWO IMAGER CAMERA						
		CONNECTION POINT OF NEW WORK TO EXISTING			WALL MOUNT			FOUR IMAGER CAMERA						
		DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER			POLE / BOLLARD MOUNT									
		SECTION CUT DESIGNATION			CORNER MOUNT									
					PENDANT MOUNT									
		DEDICATED EQUIPMENT ACCESS TILE			WALL MOUNT PENDANT ARM									
		ACCESS PANEL	LABELING SCHEME											
LINETYPE LEGEND			SECURITY DEVICES (TYPICAL)											
THROUGHOUT THE DRAWINGS DIFFERENT LINE-TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.					XX	A: DEVICE SYMBOL								
					YY	XX: MODIFIER FOR SPECIAL OPERATION IF APPLICABLE								
						YY: DEVICE TYPE								
			SEE MATCHING SCHEDULES ON THIS SHEET (IF APPLICABLE)											
			SECURITY CAMERAS (TYPICAL)											
			CALL OUTS											
EXISTING					XX: CAMERA NUMBER	ENLARGED PLAN CALLOUT								
DEMOLISH					AA: CAMERA TYPE (SEE CAMERA SCHEDULE ON THIS PAGE)	NOT IN SCOPE								
					FOR WALL MOUNTED CAMERAS, HEIGHT ABOVE FINISHED FLOOR									
			SEE MATCHING SCHEDULES ON THIS SHEET (IF APPLICABLE)											

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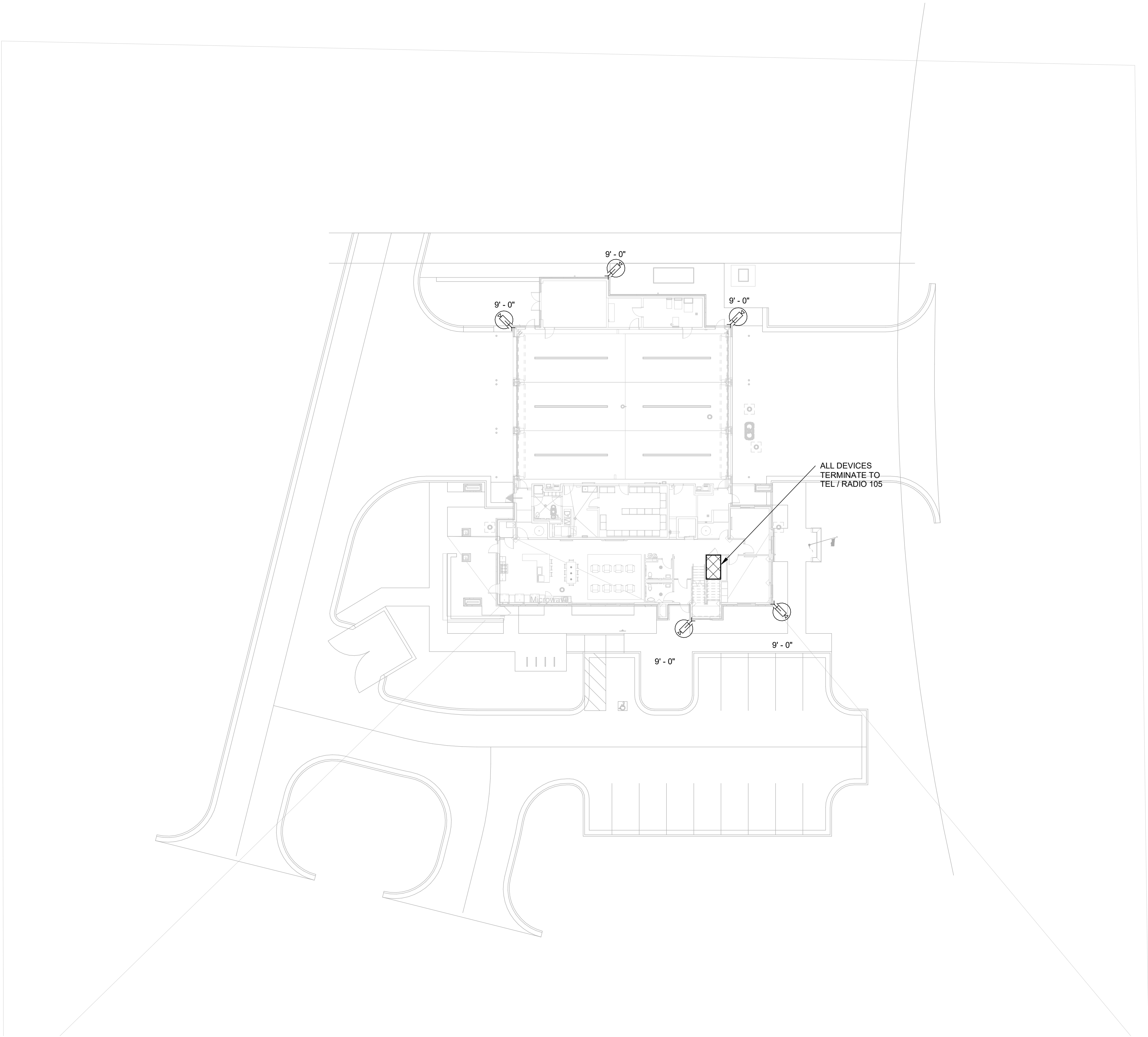
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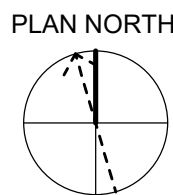


1

SECURITY SITE PLAN

1" = 20'-0"

0 4' 8' 16'



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REVISIONS:

#	Description	Date
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10/26/2022

PROJECT NO: 2150001291

DATE:

10.26.2022

DRAWN BY:

R.GAMMON

CHK'D BY:

M.MAURER

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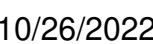
**SECURITY SITE
PLAN**

TY100

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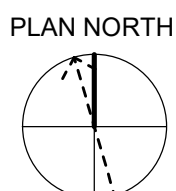
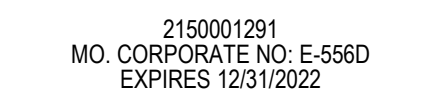
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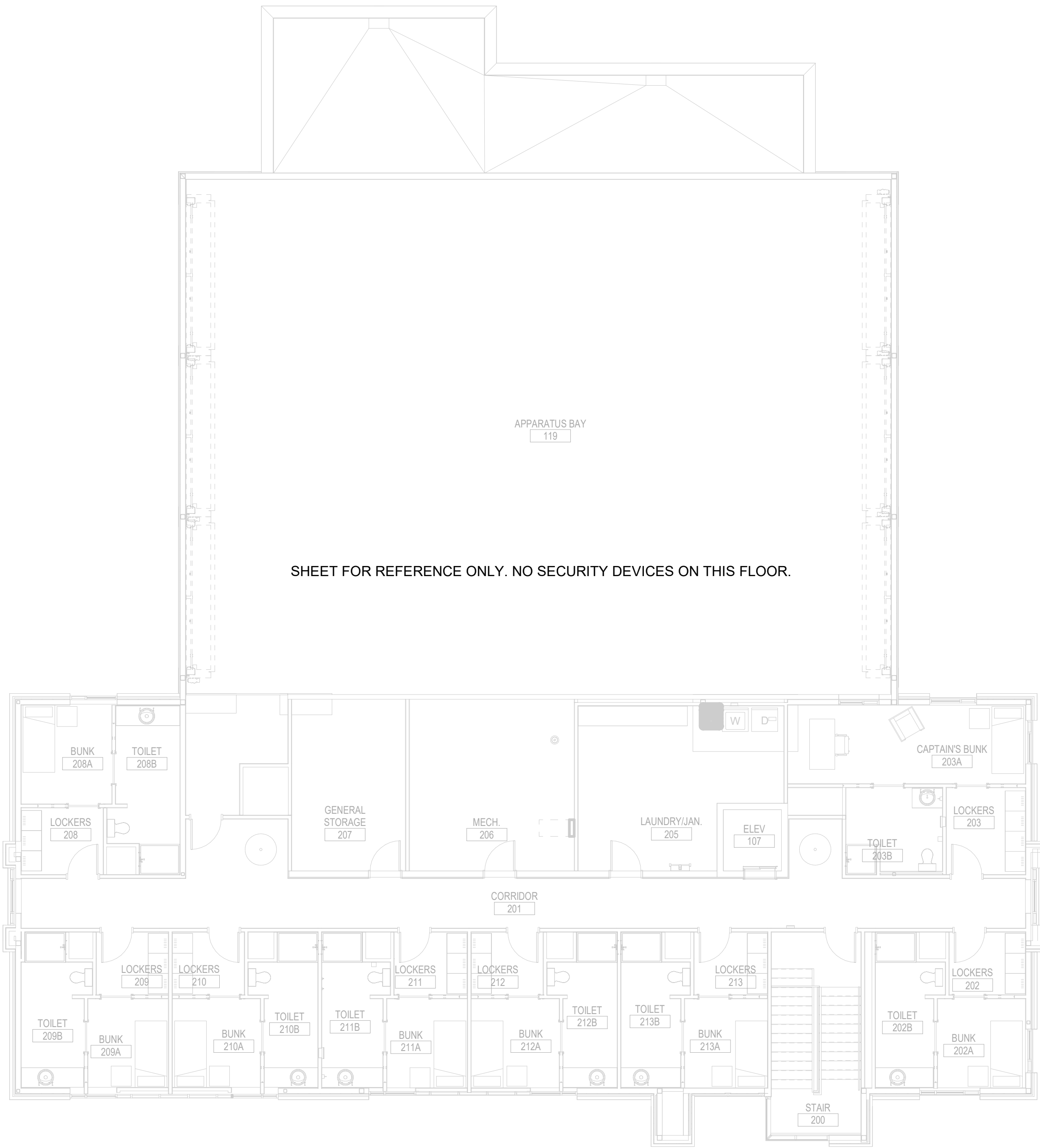
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A



SHEET FOR REFERENCE ONLY. NO SECURITY DEVICES ON THIS FLOOR.

A1

SECURITY LEVEL 2 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'



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SECURITY LEVEL
2 PLAN

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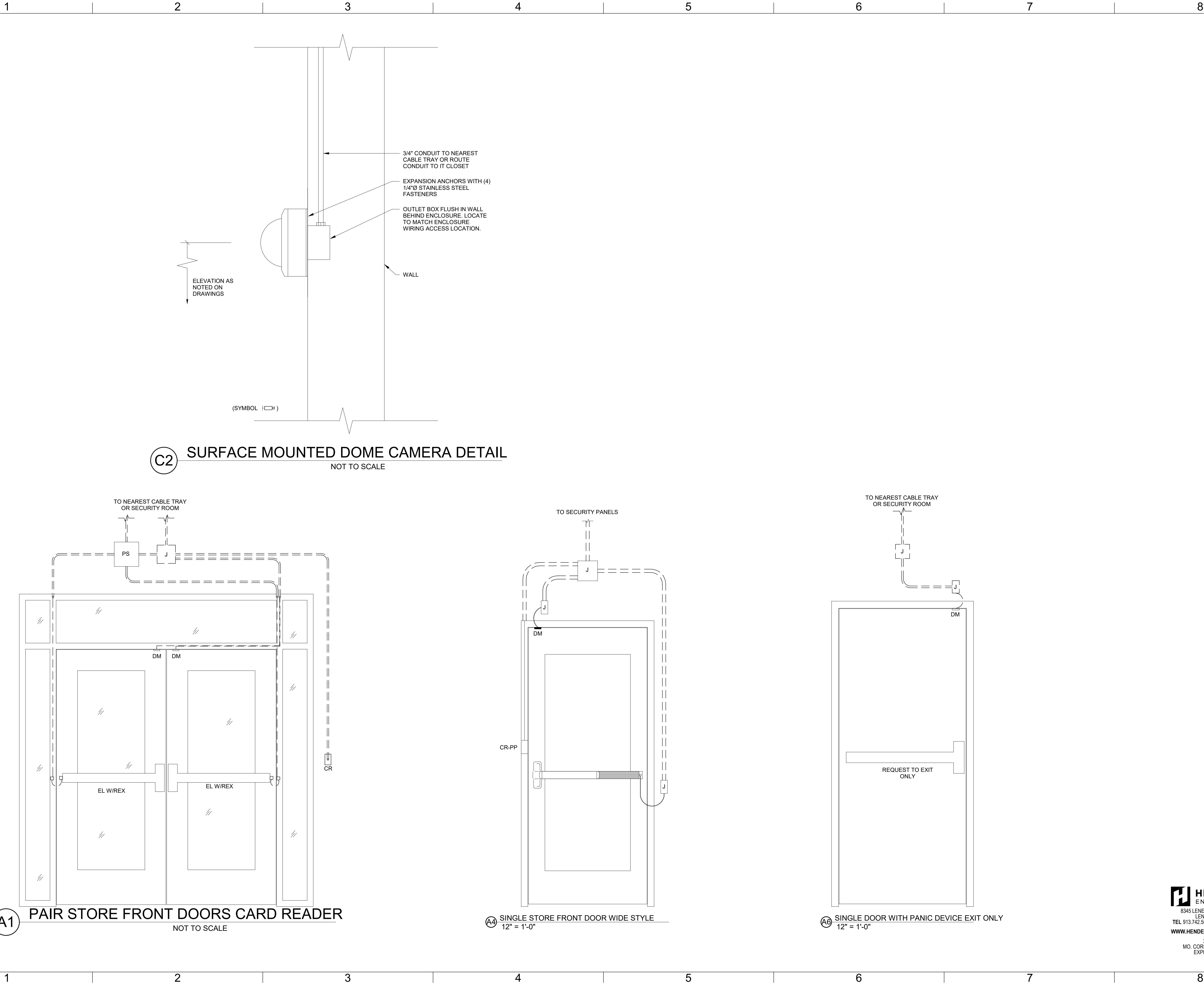
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STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
MARK D. MAURER
NUMBER E-28923
10/26/2022

PROJECT NO:	2150001291
DATE:	10.26.2022
DRAWN BY:	R.GAMMON
CHK'D BY:	M.MAURER

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