

CITY OF LEE'S SUMMIT FIRE STATION #4

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

TERMS AND ABBREVIATIONS

ABBREVIATION	TERM	CONST	CONSULT	CONSTRUCTION	CONSULTANT	FHC	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	COORD	COORD	FIN BS	FIN	FINISH BOTH SIDES	LTG	LIGHTING	REBAR	REINFORCING STEEL BARS
A/C UNIT	AIR CONDITIONING UNIT	CORR	CORRIDOR	CORRIDOR	FIN FLR	FIN	FINISH FLOOR	LVR	LOUVER	REIN	REINFORCE(D)
A/E	ARCHITECT/ENGINEER	COV PL	COVER PLATE	COVER PLATE	FIN GR	FIN	FINISH GRADE	REQ	REQUIRED	REQD	REQUIRED
AAP	ALARM ANNUNCIATOR PANEL	CP	CARPET	CARPET	FIN WD	FIXT	FIXTURE	RESIL	RESILIENT	RESIL	RESILIENT
AB	ANCHOR BOLT	CRCMF	CIRCUMFERENCE	CIRCUMFERENCE	FLG	FLR	FLOOR	REV	REVISION	RHR	RIGHT HAND REVERSE
ABBRV	ABBREVIATION	CRT YD	COURTYARD	COURTYARD	FLR FIN	FLR	FLOOR FINISH	RL	ROUGH OPENING	RO	ROUGH OPENING
ACC	ACCESSIBLE	CS	CAST STONE	CAST STONE	FLR PL	FLR	FLOOR PLATE	RSD	ROLLING STEEL DOOR	RT	RIGHT
ACoust INSUL	ACOUSTICAL INSULATION	CSG	CASING	CASING	FLR SK	FN	FLOOR SINK	RLG	RAILING	RM	ROOM
ACoust PNL	ACOUSTICAL PANEL	CSI	CONSTRUCTION	CONSTRUCTION	FR	FRTW	FIRE RATING	RO	ROUGH OPENING	RSD	ROLLING STEEL DOOR
ACS DR	ACCESS DOOR	CSK	COUNTER SUNK	COUNTER SUNK	FRM	FRM	FRAMING	RT	RUBBER TILE FLOOR	RTG	RATING
ACS FLR	ACCESS FLOOR	CSMT	CASEMENT	CASEMENT	FRP	FRP	FIBERGLASS REINFORCED	RTU	ROOF TOP UNIT	RVL	REVEAL
ACS PNL	ACCESS PANEL	CSTL	CAST STEEL	CAST STEEL	FT	FT	FEET	SC	SPLASH BLOCK	SBS	STYRENE BUTADIEN
ACT	ACOUSTICAL CEILING TILE	CSWK	CASEWORK	CASEWORK	FTG	FTG	FOOTING	MOD	MODIFIED BITUMEN	MOD BIT	MODIFIED BITUMEN
ADA	AMERICANS WITH DISABILITIES ACT	CT	CERAMIC TILE	CUT STONE	FURN	FURN	FURNITURE	MOPR	MOISTURE RESISTANT	MR	MOP SINK
AFF	AGGREGATE	CT STN	CERAMIC TILE BASE	CERAMIC TILE BASE	FW	FW	FIRE WALL	MISC	MOLDING (MOULDING)	MLWK	MILLWORK
AGGR	AUTHORITY HAVING JURISDICTION	CTF	CERAMIC TILE FLOOR	CERAMIC TILE FLOOR	FWK	FWK	FORMWORK	MLWK	MILLWORK	MOD	MODIFIED BITUMEN
AHU	AIR HANDLING UNIT	CTR	CONTROL	CONTROL	GL	GL	GLASS	MOPR	MOISTURE RESISTANT	MS	MOP SINK
AJA	AMERICAN INSTITUTE OF ARCHITECTS	CU FT	CUBIC FEET	CUBIC FEET	GLZ	GLZ	GLAZING	MTL	METAL	MWBL	MILLWORK
ALM	ALARM	CU IN	CUBIC INCH	CUBIC INCH	GLZ CMU	GLZ	GLAZED CONCRETE	MWP	MOVABLE	MEMB	MEMBRANE
ALT	ALTERNATE	CU YD	CUBIC YARD	CUBIC YARD	G	G	GALVANIZED	N	NORTH	NA	NOT APPLICABLE
ALT NO	ALTERNATE NUMBER	CURT	CURTAIN	CURTAIN	GALV	GALV	GALVANIZED	NFC	NATIONAL FIRE CODE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
ALUM	ALUMINUM	D	CLASS D DOOR	CLASS D DOOR	GB	GB	GENERAL CONTRACTOR	N	NORTH	NA	NOT APPLICABLE
ANN	ANNUNCIATOR	DBL	DOUBLE	DOUBLE	GC	GC	GENERAL CONTRACTOR	N	NORTH	NA	NOT APPLICABLE
ANOD	ANODIZE	DBL ACT DR	DOUBLE ACTING DOOR	DOUBLE ACTING DOOR	GFRG	GFRG	GLASS-FIBER-REINFORCED	N	NORTH	NA	NOT APPLICABLE
APC	ACOUSTICAL PANEL CEILING	DBL GLZ	DOUBLE GLAZED	DOUBLE GLAZED	GFRG	GFRG	GLASS-FIBER-REINFORCED	N	NORTH	NA	NOT APPLICABLE
APPD	APPROVED	DEPT	DEPARTMENT	DEPARTMENT	GFRP	GFRP	GLASS-FIBER-REINFORCED	N	NORTH	NA	NOT APPLICABLE
APPROX	APPROXIMATE	DTL	DETAIL	DETAIL	GFRP	GFRP	GLASS-FIBER-REINFORCED	N	NORTH	NA	NOT APPLICABLE
ARCH	ARCHITECT	DTL	DETAIL	DETAIL	GFRP	GFRP	GLASS-FIBER-REINFORCED	N	NORTH	NA	NOT APPLICABLE
ASKLR	AUTOMATIC SPRINKLER	DTL	DETAIL	DETAIL	GFRP	GFRP	GLASS-FIBER-REINFORCED	N	NORTH	NA	NOT APPLICABLE
ASPH	ASPHALT	DTL	DETAIL	DETAIL	GFRP	GFRP	GLASS-FIBER-REINFORCED	N	NORTH	NA	NOT APPLICABLE
AV	AUDIO VISUAL	DTL	DETAIL	DETAIL	GFRP	GFRP	GLASS-FIBER-REINFORCED	N	NORTH	NA	NOT APPLICABLE
B	LABEL	DIA	DIAMETER	DIAMETER	GL	GL	GLASS	N	NORTH	NA	NOT APPLICABLE
B PL	BASE PLATE	DIM	DIMENSION	DIMENSION	GL BLK	GL BLK	GLASS BLOCK	N	NORTH	NA	NOT APPLICABLE
BAS	BUILDING AUTOMATION SYSTEM	DIST	DISTANCE	DISTANCE	GLU LAM	GLU	GLUED LAMINATED WOOD	N	NORTH	NA	NOT APPLICABLE
BB	BASEBOARD	DOC	DOCUMENT	DOCUMENT	GLZ	GLZ	GLAZING	N	NORTH	NA	NOT APPLICABLE
BC	BOOKCASE	DPTN	DEMOUNTABLE PARTITION	DEMOUNTABLE PARTITION	GLZ CMU	GLZ	GLAZED CONCRETE	N	NORTH	NA	NOT APPLICABLE
BD	BOARD	DR	DOOR	DOOR	GPC	GPC	GYPSUM PLASTER CEILING	N	NORTH	NA	NOT APPLICABLE
BDRY	BOUNDARY	DR CL	DOOR CLOSER	DOOR CLOSER	GR BM	GR	GRADE BEAM	N	NORTH	NA	NOT APPLICABLE
BFF	BUILDING FINISHED FLOOR	DR FR	DOOR FRAME	DOOR FRAME	GR FL	GR	GROUND FLOOR	N	NORTH	NA	NOT APPLICABLE
BHMA	BUILDING'S HARDWARE	DR OPNG	DOOR OPENING	DOOR OPENING	GR LN	GR	GRADE LINE	N	NORTH	NA	NOT APPLICABLE
BITUM	BITUMINOUS	DR LV	DOOR LOUVER	DOOR LOUVER	GSB	GUT	GUTTER	N	NORTH	NA	NOT APPLICABLE
BLKHD	BULKHEAD	DRST	DOOR STOP	DOOR STOP	GUT	GUT	GUTTER	N	NORTH	NA	NOT APPLICABLE
BLT IN	BUILT-IN	DRSW	DOOR SWITCH	DOOR SWITCH	GYM	GYM	GYMNASIUM	N	NORTH	NA	NOT APPLICABLE
BLW CLG	BELOW CEILING	DW	DISHWASHER	DISHWASHER	GYP	GYP	GYPSUM	N	NORTH	NA	NOT APPLICABLE
BN	BULLNOSE	DWG	DRAWING	DRAWING	GYP BD	GYP	GYPSUM BOARD	N	NORTH	NA	NOT APPLICABLE
BRCG	BRACING	E	CLASS E DOOR	CLASS E DOOR	HA	HA	HANDRAIL	N	NORTH	NA	NOT APPLICABLE
BRDG	BRIDGING	EACH	EACH	EACH	HBM	HBM	HANDICAPPED	N	NORTH	NA	NOT APPLICABLE
BRDG JST	BRIDGING JOIST	EFS	EXTERIOR FINISH SYSTEM	EXTERIOR FINISH SYSTEM	HCP	HCP	HANDICAPPED	N	NORTH	NA	NOT APPLICABLE
BRG	BEARING	EGS	EXTERIOR GYPSUM BOARD	EXTERIOR GYPSUM BOARD	HCWD	HCWD	HOLLOW CORE WOOD DOOR	N	NORTH	NA	NOT APPLICABLE
BRG PL	BEARING PLATE	EGSB	EXTERIOR GYPSUM BOARD	EXTERIOR GYPSUM BOARD	HDWD	HDWD	HOLLOW CORE WOOD DOOR	N	NORTH	NA	NOT APPLICABLE
BRZ	Bronze	EIFS	EXTERIOR FINISH SYSTEM	EXTERIOR FINISH SYSTEM	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
BTWN	BETWEEN	EJ	EXPANSION JOINT	EXPANSION JOINT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
BUR	BUILT-UP ROOFING	EJ	EXPANSION JOINT	EXPANSION JOINT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
C	LABEL	ELEC	ELECTRICAL	ELECTRICAL	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CAB	CABINET	ELEC	ELECTRICAL	ELECTRICAL	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CAC	CEILING ATTENUATION	ENR	ENTRANCE	ENTRANCE	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CLASS	CLASS	EOS	EDGE OF SLAB	EDGE OF SLAB	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CATW	CATWALK	EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)	EXPANDED POLYSTYRENE BOARD (INSULATION)	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CBB	CEMENTITIOUS BACKER BOARD	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CEM	CEMENT	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CEM FIN	CEMENT FINISH	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CEM PLAS	CEMENT PLASTER	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CEM PLAS CLG	CEMENT PLASTER CEILING	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CER	CERAMIC	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CF	CONTRACTOR FURNISHED	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CFE	CONTRACTOR FURNISHED EQUIPMENT	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CFLG	COUNTERFLASHING	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CFMF	COLD-FORMED METAL FRAMING	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CG	CORNER GUARD	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CHFR	CHAMFER	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CI	CAST IRON	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CIP	CAST-IN-PLACE	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CIR	CIRCLE	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CJ	CONTROL JOINT	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CL	CLADDING	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CLDG	CEILING	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CLG DIFF	CEILING DIFFUSER	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CLG GR	CEILING GRILLE	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CLG HT	CEILING HEIGHT	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CLG REG	CEILING REGISTER	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CLK JT	CAULKED JOINT	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CLR	COLOR	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CMFST	COMPOSITE	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CMFTR	COMPUTER	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CMU	CONCRETE MASONRY UNIT	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CNR	CORNER	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CNTOR	CONTRACTOR	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CNTR	COUNTER	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CO	CLEANOUT	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
COL	COLUMN	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
COMM	COMMUNICATION	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CONC	CONCRETE	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CONC FLR	CONCRETE FLOOR	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE
CONC OPNG	CONCRETE OPENING	EQ	EQUIPMENT	EQUIPMENT	HMD	HMD	HOLLOW METAL DOOR	N	NORTH	NA	NOT APPLICABLE

GRAPHIC SYMBOLS LEGEND

FLOOR PLAN REFERENCE INDICATORS	NAME	ROOM TAG	101A	DOOR TAG	REVISION TAG
NO	NO	NO	NO	NO	NO
ID	WINDOW TAG	ID	PARTITION TAG	KEYNOTE TAG	KEYNOTE TAG
100'-0"	SPOT ELEVATION TAG	100'-0"	CENTER LINE	EQUIPMENT TAG	EQUIPMENT TAG
NORTH INDICATOR	PLAN NORTH	PROJECT NORTH LINE	TRUE NORTH LINE	GRID IDENTIFICATION	GRID IDENTIFICATION
DRAWING BLOCK TITLE	VIEW NUMBER	VIEW NAME	VIEW SCALE	GRAPHIC SCALE	GRAPHIC SCALE
C4	DRAWING BLOCK TITLE	VIEW NUMBER	VIEW NAME	VIEW SCALE	GRAPHIC SCALE
DETAIL/CALLOUT IDENTIFICATION	DETAIL NUMBER	DETAIL NUMBER	DETAIL NUMBER	DETAIL NUMBER	DETAIL NUMBER
EXTERIOR ELEVATION IDENTIFICATION	ELEVATION NAME	ELEVATION	ELEVATION	ELEVATION	ELEVATION
BUILDING SECTION IDENTIFICATION	SECTION NUMBER	SECTION NUMBER	SECTION NUMBER	SECTION NUMBER	SECTION NUMBER
WALL SECTION IDENTIFICATION	SECTION NUMBER	SECTION NUMBER	SECTION NUMBER	SECTION NUMBER	SECTION NUMBER
INTERIOR ELEVATION IDENTIFICATION	ELEVATION NUMBER	ELEVATION NUMBER	ELEVATION NUMBER	ELEVATION NUMBER	ELEVATION NUMBER

MATERIAL SYMBOLS LEGEND

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

SHEET INDEX

SHEET NUMBER		SHEET NAME		SHEET NUMBER		SHEET NAME	
<u>FIRE STATION #4</u>				INTERIORS			
				I-001		TYPICAL MOUNTING HEIGHTS	
				I-201		INTERIOR DESIGN ELEVATIONS	
				I-202		INTERIOR DESIGN ELEVATIONS	
				I-203		APPARATUS BAY ELEVATIONS	
G-001		COVER SHEET		I-501		CASEWORK SECTIONS	
G-002		CODE SUMMARY		I-601		FINISH SCHEDULE	
G-003		CODE MODIFICATION					
G-004		STORM SHELTER CODE SUMMARY					
				MECHANICAL			
GENERAL				ME001		MPE SITE PLAN	
G-001		COVER SHEET		ME002		SITE LIGHTING PHOTOMETRIC PLAN	
G-002		CODE SUMMARY		ME101		MPE ROOF PLAN	
G-003		CODE MODIFICATION		M-001		HVAC SYMBOLS LEGEND	
G-004		STORM SHELTER CODE SUMMARY		M-101		FIRST FLOOR HVAC PLAN	
CIVIL				M-102		SECOND FLOOR HVAC PLAN	
GS001		SITE SURVEY		M-201		FIRST FLOOR HVAC PIPING PLAN	
C-001		FINAL DEVELOPMENT PLAN COVER PAGE		M-202		SECOND FLOOR HVAC PIPING PLAN	
C-002		PUBLIC OFFSITE STORM SEWER COVER PAGE		M-301		MECHANICAL DETAILS	
C-003		PUBLIC SANITARY SEWER MODIFICATION COVER PAGE		M-401		MECHANICAL SCHEDULES	
C-100		SITE PLAN		M-402		MECHANICAL SCHEDULES	
C-101		LAYOUT PLAN					
C-102		DEMOLITION PLAN					
C-103		EROSION CONTROL PLAN					
C-104		GRADING & DRAINAGE PLAN					
C-105		UTILITY PLAN					
C-220		PUBLIC WATER PLAN & PROFILES					
C-230		PUBLIC STORMWATER PLAN & PROFILES					
C-231		PRIVATE STORMWATER PROFILES					
C-240		PUBLIC SANITARY SEWER PLAN & PROFILES					
C-400		GRADING ENLARGEMENTS					
C-500		SITE DETAILS					
C-501		SITE DETAILS					
C-502		SITE DETAILS					
C-503		SITE DETAILS					
C-510		EROSION CONTROL DETAILS					
C-511		EROSION CONTROL DETAILS					
C-520		WATER DETAILS					
C-521		WATER DETAILS					
C-530		STORMWATER DETAILS					
C-531		STORMWATER DETAILS					
C-532		STORMWATER DETAILS					
C-540		SANITARY SEWER DETAILS					
				PLUMBING			
C-220		PUBLIC WATER PLAN & PROFILES		P-001		PLUMBING SYMBOLS LEGEND	
C-230		PUBLIC STORMWATER PLAN & PROFILES		P-100		UNDERGROUND PLUMBING PLAN	
C-231		PRIVATE STORMWATER PROFILES		P-101		FIRST FLOOR PLUMBING PLAN	
C-240		PUBLIC SANITARY SEWER PLAN & PROFILES		P-102		SECOND FLOOR PLUMBING PLAN	
C-400		GRADING ENLARGEMENTS		P-301		PLUMBING DETAILS	
C-500		SITE DETAILS		P-302		WASTE AND VENT RISERS	
C-501		SITE DETAILS		P-303		DOMESTIC WATER RISERS	
C-502		SITE DETAILS		P-401		PLUMBING SCHEDULES	
C-503		SITE DETAILS					
				ELECTRICAL			
C-510		EROSION CONTROL DETAILS		E-001		ELECTRICAL SYMBOLS LEGEND	
C-511		EROSION CONTROL DETAILS		E-101		FIRST FLOOR LIGHTING RCP	
C-520		WATER DETAILS		E-102		SECOND FLOOR LIGHTING RCP	
C-521		WATER DETAILS		E-201		FIRST FLOOR POWER PLAN	
C-530		STORMWATER DETAILS		E-202		SECOND FLOOR POWER PLAN	
C-531		STORMWATER DETAILS		E-401		FIRST FLOOR FIRE ALARM PLAN	
C-532		STORMWATER DETAILS		E-402		SECOND FLOOR FIRE ALARM PLAN	
C-540		SANITARY SEWER DETAILS		E-501		ELECTRICAL DETAILS	
LANDSCAPE				E-502		ELECTRICAL ONE-LINE DIAGRAM	
L-100		LANDSCAPE SCHEDULE		E-600		ELECTRICAL SCHEDULES	
L-101		LANDSCAPE PLAN		E-601		PANELBOARD SCHEDULES	
				AUDIO VIDEO			
STRUCTURAL				TA000		AUDIO-VIDEO GENERAL NOTES	
S-001		GENERAL NOTES		TA001		AUDIO-VIDEO GENERAL SYMBOLS	
S-100		FOUNDATION PLAN		TA101		AUDIO-VIDEO LEVEL 1 PLAN	
S-101		LEVEL 2 FRAMING PLAN		TA102		AUDIO-VIDEO LEVEL 2 PLAN	
S-103		LOW ROOF FRAMING PLAN		TA201		AUDIO-VIDEO LEVEL 1 RCP	
S-104		HIGH ROOF FRAMING PLAN		TA600		AUDIO-VIDEO SCHEDULES & SIGNAL FLOWS	
S-300		FOUNDATION SECTIONS					
S-301		FOUNDATION SECTIONS					
S-302		FLOOR SECTIONS					
S-303		FLOOR SECTIONS					
S-304		ROOF SECTIONS					
S-305		ROOF SECTIONS					
S-306		ROOF SECTIONS					
S-307		MISC. DETAILS					
S-500		TYPICAL DETAILS					
S-501		TYPICAL DETAILS					
				INFORMATION TECHNOLOGY			
S-302		FLOOR SECTIONS		TN000		TECHNOLOGY GENERAL NOTES	
S-303		FLOOR SECTIONS		TN101		TECHNOLOGY LEVEL 1 PLAN	
S-304		ROOF SECTIONS		TN102		TECHNOLOGY LEVEL 2 PLAN	
S-305		ROOF SECTIONS		TN201		TECHNOLOGY LEVEL 1 RCP	
S-306		ROOF SECTIONS		TN202		TECHNOLOGY LEVEL 2 RCP	
S-307		MISC. DETAILS		TN400		ENLARGED PLANS	
S-500		TYPICAL DETAILS		TN500		TECHNOLOGY DETAILS	
S-501		TYPICAL DETAILS		TN501		TECHNOLOGY DETAILS	
ARCHITECTURAL				SECURITY			
A-101		FIRST FLOOR PLAN		TY000		SECURITY GENERAL NOTES	
A-102		SECOND FLOOR PLAN		TY100		SECURITY SITE PLAN	
A-103		FIRST FLOOR DIMENSION PLAN		TY101		SECURITY LEVEL 1 PLAN	
A-104		SECOND FLOOR DIMENSION PLAN		TY102		SECURITY LEVEL 2 PLAN	
A-111		FIRST FLOOR REFLECTED CEILING PLAN		TY500		SECURITY DETAILS	
A-112		SECOND FLOOR REFLECTED CEILING PLAN					
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					

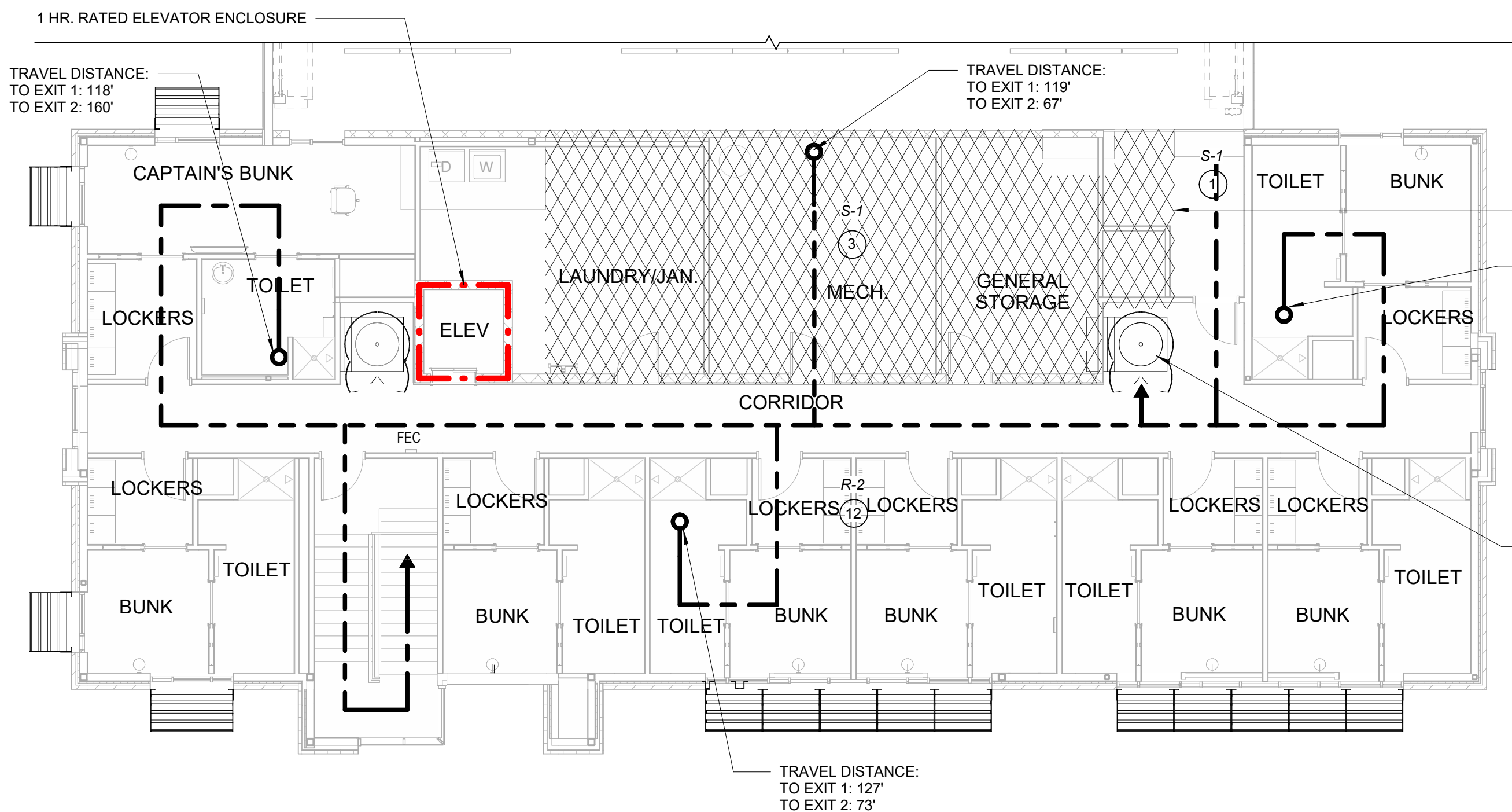
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D

C

B

A



2 LEVEL 2 CODE PLAN

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 Bay;
3,606 sf - Apparatus Bay

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

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

B. Fire Resistance Ratings

1. Building Elements per IBC Table 601

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

2. Corridors with Sprinkler System per IBC-T 1020.1

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

Notes:

- a. Per IBC 708.4.1: "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 601

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

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

	5 to less than 10 feet, Unprotected, Sprinklered (UP, S)	25%	0 hr.
5. Accessory Storage room separation (>100sf)			

C. Occupant Load (IBC Table 1004.5)

Business	19
Residential	12
Storage	34
Total	65

D. Plumbing Fixtures as Required per IBC Table 2902.1

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

E. Means of Egress Notes:

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

F. Maximum Common Path of Egress Travel

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

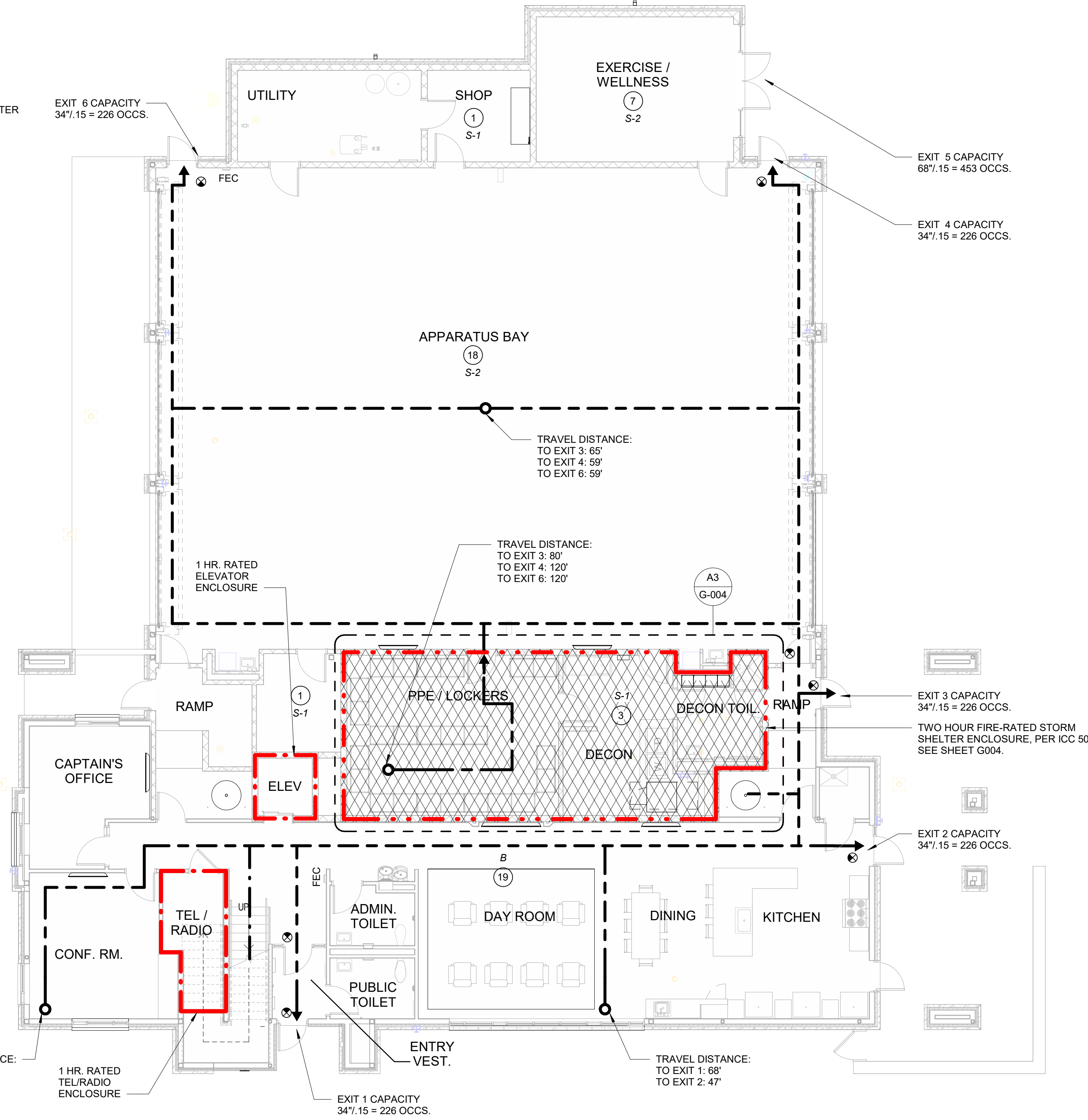
G. Sprinkler System

- 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."

1 LEVEL 1 CODE PLAN



CODE PLAN LEGEND

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

INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANCY

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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MECH., ELEC. & 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 #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064
ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
1	ASB 01	11/21/2022

STATE OF MISSOURI
PAUL J. MICHELL
NUMBER
A-2009021701
11/21/22
ARCHITECT

PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

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CODE SUMMARY

G-002

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

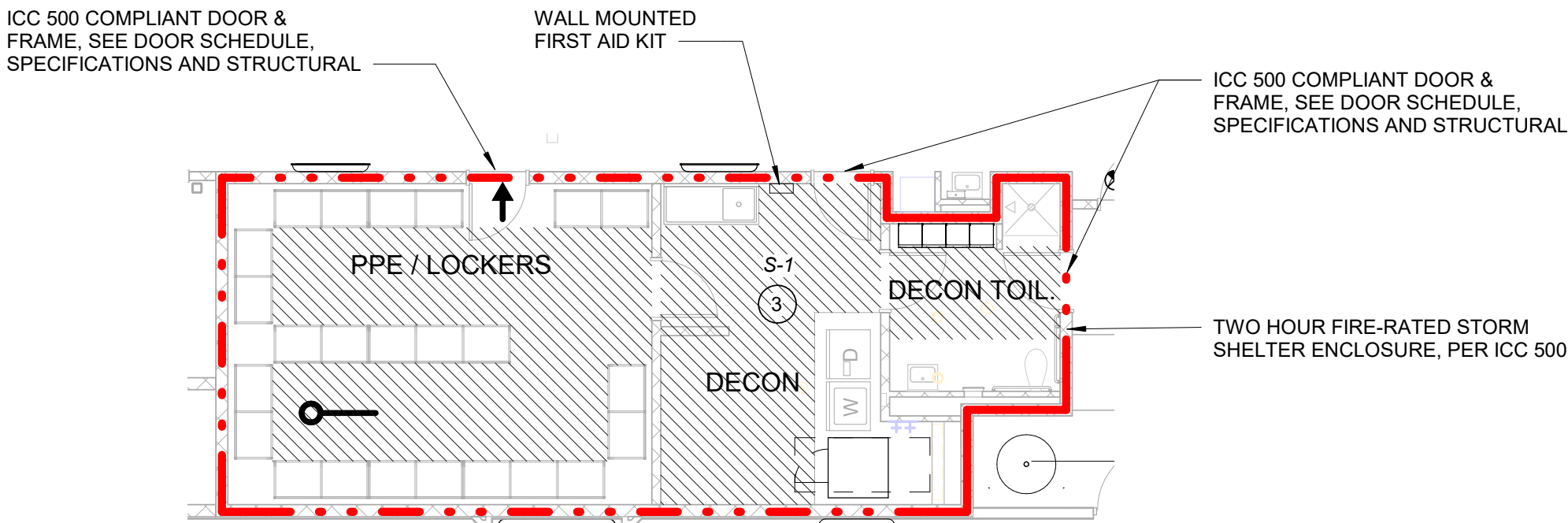
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A3 LEVEL 1 CODE PLAN - STORM SHELTER

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.

§106.2.1 DESIGN INFORMATION	
• TYPE:	COMMUNITY SHELTER FOR TORNADO PROTECTION
• RISK CATEGORY:	IV (FIRE, RESCUE, AMBULANCE AND POLICE STATIONS)
• DESIGN WIND SPEED (V ₁):	250 MPH
• WIND EXPOSURE CATEGORY:	C
• INTERNAL PRESSURE COEFFICIENT (GC _{pi}):	+/- 0.55
• TOPOGRAPHIC FACTOR (K _z):	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) REFERENCE MPE SHEET
• VENTING AREA:	
• 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 information in accordance with Section 508.2. Community storm shelter areas shall be marked by signage in accordance with Sections 508.3 through 508.7, as applicable. All signs shall comply with the visual character requirements of ICC 117.1.

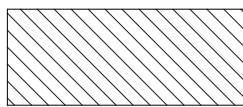
508.2 DESIGN INFORMATION SIGNAGE.
All storm shelters shall have a sign on or within the storm shelter with all of the following:
1. The design occupant capacity.
2. The storm type.
3. The design wind speed.
4. The edition of the ICC 500 used for the design.
5. The name of the manufacturer or builder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

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



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(816) 663-8700

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

ISSUED FOR CONSTRUCTION

REVISIONS:

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



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

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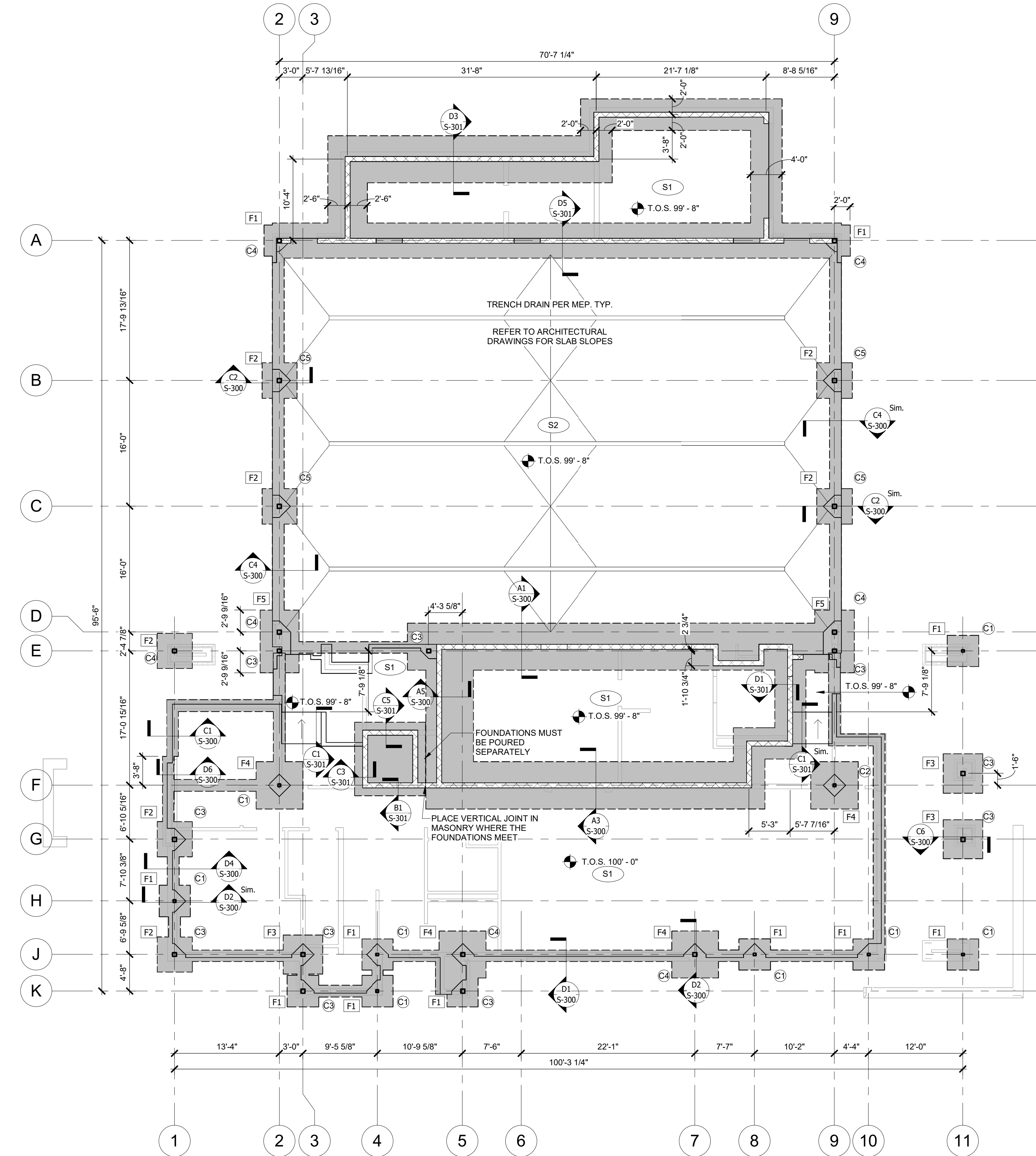
**STORM SHELTER
CODE SUMMARY**

G-004

PLEASE CONSIDER THE ENVIRONMENT
BEFORE PRINTING THIS

E	<div><div>1.</div><div>ALL WORK SHALL CONFORM TO 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEES SUMMIT, MISSOURI.</div></div> <div><div>2.</div><div>A. ROOF LOAD (5 PSF NET UPLIFT)<div><div>1.</div><div>DEAD LOAD TOP CHORD</div><div>20 PSF</div></div><div><div>2.</div><div>DEAD LOAD BOT. CHORD</div><div>5 PSF</div></div><div><div>3.</div><div>LIVE LOAD TOP CHORD</div><div>25 PSF</div></div><div><div>4.</div><div>LIVE LOAD BOT. CHORD</div><div>0 PSF (U.N.O)</div></div></div><div><div>B.</div><div>ROOF LOAD (STORM SHELTER)<div><div>1.</div><div>DEAD LOAD</div><div>SELF PSF</div></div><div><div>2.</div><div>LIVE LOAD</div><div>170 PSF</div></div></div></div><div><div>C.</div><div>FLOOR LOADS<div><div>1.</div><div>DEAD LOAD</div><div>55 PSF</div></div><div><div>2.</div><div>LIVE LOAD</div><div>100 PSF</div></div></div></div><div><div>D.</div><div>STAIR LOADS<div><div>1.</div><div>DEAD LOAD</div><div>40 PSF</div></div><div><div>2.</div><div>LIVE LOAD</div><div>100 PSF</div></div></div></div><div><div>E.</div><div>ROOF SNOW LOAD<div><div>1.</div><div>FLAT ROOF SNOW LOAD, P_f</div><div>24 PSF</div></div><div><div>2.</div><div>SNOW EXPOSURE FACTOR, C_e</div><div>0.9</div></div><div><div>3.</div><div>SNOW LOAD IMPORTANCE FACTOR, I</div><div>1.2</div></div><div><div>4.</div><div>THERMAL FACTOR, C_t</div><div>1.1</div></div><div><div>5.</div><div>DRIFTING</div><div>PER CODE</div></div></div></div><div><div>F.</div><div>WIND LOADS<div><div>1.</div><div>BASIC WIND SPEED (3 SECOND GUST)</div><div>122 MPH</div></div><div><div>2.</div><div>WIND IMPORTANCE FACTOR, I</div><div>1.0</div></div><div><div>3.</div><div>BUILDING CATEGORY</div><div>IV</div></div><div><div>4.</div><div>WIND EXPOSURE</div><div>B</div></div><div><div>5.</div><div>COMPONENTS AND CLADDING DESIGN VALUE (U.N.O.)</div><div>25 PSF</div></div></div></div><div><div>G.</div><div>SEISMIC LOADS<div><div>1.</div><div>CATEGORY</div><div>IV</div></div><div><div>2.</div><div>S_s=</div><div>0.099</div></div><div><div>3.</div><div>S₁=</div><div>0.068</div></div><div><div>4.</div><div>S_{0.5}=</div><div>0.105</div></div><div><div>5.</div><div>S_{0.1}=</div><div>0.108</div></div><div><div>6.</div><div>SEISMIC IMPORTANCE FACTOR, I</div><div>1.5</div></div><div><div>7.</div><div>SITE CLASS</div><div>C</div></div><div><div>8.</div><div>SEISMIC DESIGN CATEGORY</div><div>C</div></div><div><div>9.</div><div>SEISMIC FORCE RESISTING SYSTEMS; STEEL ORDINARY MOMENT FRAMES</div><div></div></div><div><div>10.</div><div>RESPONSE MODIFICATION COEFFICIENT, R</div><div>3 1/2</div></div><div><div>11.</div><div>SEISMIC RESPONSE COEFFICIENTS, C_s</div><div>0.045</div></div><div><div>12.</div><div>DESIGN BASE SHEAR</div><div>22 K</div></div><div><div>13.</div><div>ANALYSIS PROCEDURE; EQUIVALENT LATERAL FORCE PROCEDURE.</div><div></div></div></div></div><div><div>H.</div><div>WIND LOADS - STORM SHELTER<div><div>1.</div><div>SHELTER TYPE</div><div>TORNADO SHELTER</div></div><div><div>2.</div><div>BASIC WIND SPEED (3 SECOND GUST)</div><div>250 MPH</div></div><div><div>3.</div><div>WIND IMPORTANCE FACTOR, I</div><div>1.0</div></div><div><div>4.</div><div>BUILDING CATEGORY</div><div>IV</div></div><div><div>5.</div><div>WIND EXPOSURE</div><div>C</div></div><div><div>6.</div><div>INTERNAL PRESSURE COEFFICIENT; GCPI</div><div>+/- 0.55</div></div><div><div>7.</div><div>WALL COMPONENTS & CLADDING (U.N.O.)</div><div>REF. S-307</div></div><div><div>8.</div><div>ROOF COMPONENTS & CLADDING (U.N.O.)</div><div>REF. S-307</div></div><div><div>9.</div><div>WIND UPLIFT</div><div>163 PSF</div></div><div><div>10.</div><div>TOPOGRAPHIC FACTOR; K_{zt}</div><div>1.0</div></div><div><div>11.</div><div>DIRECTIONALITY FACTOR; K_d</div><div>1.0</div></div><div><div>12.</div><div>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.</div><div></div></div><div><div>13.</div><div>STRUCTURE IS NOT LOCATED IN A FLOOD ZONE.</div><div></div></div></div></div><div><div>3.</div><div>CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO FABRICATION. REFERENCE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.</div></div><div><div>4.</div><div>IF DISCREPANCIES EXIST BETWEEN SPECIFICATIONS, CONTRACT DRAWINGS, AND/OR SHOP DRAWINGS NOTIFY THE ENGINEER OF RECORD.</div></div><div><div>5.</div><div>THE CONTRACTOR SHALL REVIEW DRAWINGS FROM ALL OTHER DISCIPLINES FOR PERTINENT MISC. ITEMS OR INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED.</div></div><div><div>6.</div><div>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.</div></div><div><div>7.</div><div>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.</div></div><div><div>8.</div><div>FOUNDATIONS<div><div>A.</div><div>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.</div></div><div><div>B.</div><div>CONTRACTOR SHALL REMOVE EXISTING FOOTINGS AND FOUNDATIONS THAT ARE LOCATED WITHIN THE FOOTPRINT OF THE NEW BUILDING.</div></div><div><div>C.</div><div>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.</div></div></div></div><div><div>9.</div><div>CONCRETE<div><div>A.</div><div>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.</div></div><div><div>B.</div><div>ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:<div><div>1.</div><div>FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS:</div><div>4000 PSI (w/c MAX 0.45)</div></div><div><div>2.</div><div>SLAB ON GRADE:</div><div>4000 PSI (w/c MAX 0.42)</div></div><div><div>3.</div><div>ELEVATED COMPOSITE SLAB:</div><div>4000 PSI (w/c MAX 0.42)</div></div><div><div>4.</div><div>REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.</div></div></div></div><div><div>C.</div><div>SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH.</div></div><div><div>D.</div><div>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.</div></div><div><div>E.</div><div>CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES.</div></div><div><div>F.</div><div>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).</div></div><div><div>G.</div><div>CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (+/- 1%) ENTRAINED AIR BY VOLUME.</div></div><div><div>H.</div><div>CHAMFER ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE.</div></div><div><div>I.</div><div>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 DISLODGING AGGREGATE, OR USE A KEVED COLD JOINT.</div></div><div><div>J.</div><div>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.</div></div><div><div>K.</div><div>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.</div></div><div><div>L.</div><div>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.</div></div><div><div>M.</div><div>EMBEDDED ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR PRIOR TO PLACING CONCRETE.</div></div><div><div>N.</div><div>ANCHOR RODS AND ANCHOR BOLTS SHALL BE HELD IN PLACE WITH A RIGID TEMPLATE</div></div><div><div>O.</div><div>HORIZONTAL JOINTS BEYOND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUCTED WITHOUT THE APPROVAL OF THE ARCHITECT AND ENGINEER.</div></div></div><div><div>10.</div><div>CONCRETE<div><div>A.</div><div>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.</div></div><div><div>B.</div><div>ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:<div><div>1.</div><div>FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS:</div><div>4000 PSI (w/c MAX 0.45)</div></div><div><div>2.</div><div>SLAB ON GRADE:</div><div>4000 PSI (w/c MAX 0.42)</div></div><div><div>3.</div><div>ELEVATED COMPOSITE SLAB:</div><div>4000 PSI (w/c MAX 0.42)</div></div><div><div>4.</div><div>REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.</div></div></div></div><div><div>C.</div><div>SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH.</div></div><div><div>D.</div><div>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.</div></div><div><div>E.</div><div>CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES.</div></div><div><div>F.</div><div>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).</div></div><div><div>G.</div><div>CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (+/- 1%) ENTRAINED AIR BY VOLUME.</div></div><div><div>H.</div><div>CHAMFER ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE.</div></div><div><div>I.</div><div>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 DISLODGING AGGREGATE, OR USE A KEVED COLD JOINT.</div></div><div><div>J.</div><div>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.</div></div><div><div>K.</div><div>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.</div></div><div><div>L.</div><div>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.</div></div><div><div>M.</div><div>EMBEDDED ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR PRIOR TO PLACING CONCRETE.</div></div><div><div>N.</div><div>ANCHOR RODS AND ANCHOR BOLTS SHALL BE HELD IN PLACE WITH A RIGID TEMPLATE</div></div><div><div>O.</div><div>HORIZONTAL JOINTS BEYOND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUCTED WITHOUT THE APPROVAL OF THE ARCHITECT AND ENGINEER.</div></div></div></div><div><div>11.</div><div>REINFORCING STEEL<div><div>A.</div><div>ALL REINFORCING SHALL BE ASTM A615 GRADE 60, EXCEPT WELDED REINFORCING WHICH SHALL BE ASTM A706 GRADE 60.</div></div><div><div>B.</div><div>ALL WELDED WIRE FABRIC SHALL BE ASTM A82 COLD DRAWN WIRE.</div></div><div><div>C.</div><div>ALL ACCESSORIES FOR SUPPORTING REINFORCING SHALL BE GALVANIZED OR HAVE PLASTIC-COATED FEET.</div></div><div><div>D.</div><div>PROVIDE CORNER BARS AT THE EXTERIOR FACE OF ALL WALL AND FOOTING CORNERS EQUAL TO HORIZONTAL BARS.</div></div><div><div>E.</div><div>REINFORCING SHALL BE DETAILED, FABRICATED, PLACE, AND SUPPORTED IN ACCORDANCE WITH ACI 315, LATEST APPLICABLE EDITION.</div></div><div><div>F.</div><div>STANDARD COVERAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.<div><div>1.</div><div>PERMANENTLY EXPOSED TO WEATHER<div><div>A.</div><div>CAST AGAINST EARTH</div><div>3"</div></div><div><div>B.</div><div>IN CONTACT WITH WATER</div><div>3"</div></div><div><div>C.</div><div>FORMED</div><div>2"</div></div></div><div><div>2.</div><div>NOT EXPOSED TO EARTH OR WEATHER<div><div>A.</div><div>SLABS AND WALLS</div><div>3/4"</div></div><div><div>B.</div><div>BEAMS AND COLUMNS</div><div>1 1/2"</div></div></div></div></div></div><div><div>G.</div><div>SPLICE LENGTH<div><div>1.</div><div>3000 PSI CONCRETE<div><div>A.</div><div>NON-COATED</div><div>55 db (BAR DIAMETER)</div></div><div><div>B.</div><div>EPOXY COATED</div><div>83 db</div></div></div><div><div>2.</div><div>4000 PSI CONCRETE<div><div>A.</div><div>NON-COATED</div><div>48 db</div></div><div><div>B.</div><div>EPOXY COATED</div><div>72 db</div></div></div><div><div>3.</div><div>5000 PSI CONCRETE<div><div>A.</div><div>NON-COATED</div><div>43 db</div></div><div><div>B.</div><div>EPOXY COATED</div><div>64 db</div></div></div></div></div></div><div><div>H.</div><div>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.</div></div><div><div>I.</div><div>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.</div></div></div></div><div><div>12.</div><div>MASONRY<div><div>A.</div><div>MASONRY UNIT COMPRESSIVE STRENGTH (F'_m) = 1500 PSI. MORTAR - TYPE S.</div></div><div><div>B.</div><div>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".</div></div><div><div>C.</div><div>GROUT ALL REINFORCED CELLS AND CELLS BELOW GRADE SOLID.</div></div><div><div>D.</div><div>PLACE A BOND BEAM WITH (2) #5 CONTINUOUS AT THE TOP OF WALLS & 8'-0" O.C. VERTICALLY.</div></div><div><div>E.</div><div>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".</div></div><div><div>F.</div><div>BRACE THE TOPS OF PARTITION WALLS TO THE UNDERSIDE OF DECK.</div></div></div></div><div><div>13.</div><div>STRUCTURAL STEEL<div><div>A.</div><div>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.</div></div><div><div>B.</div><div>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.</div></div><div><div>C.</div><div>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.</div></div><div><div>D.</div><div>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.</div></div><div><div>E.</div><div>SHOP WELDED AND FIELD BOLTED CONNECTIONS ARE PREFERRED UNLESS NOTED OTHERWISE.</div></div><div><div>F.</div><div>ALL STEEL EXPOSED TO THE EXTERIOR, EXHIBITS, POOLS, AND LSS AREAS SHALL BE HOT-DIP GALVANIZED AND PAINTED ARCHITECT UNLESS NOTED OTHERWISE.</div></div><div><div>G.</div><div>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.</div></div></div></div><div><div>14.</div><div>COLD-FORMED STEEL<div><div>A.</div><div>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)</div></div><div><div>B.</div><div>ALL LIGHT GAGE METAL FRAMING SHOWN IN THESE DOCUMENTS SHALL BE IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).</div></div><div><div>C.</div><div>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.</div></div><div><div>D.</div><div>WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.3 - LATEST EDITION, STRUCTURAL WELDING CODE, SHEET STEEL.</div></div><div><div>E.</div><div>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.</div></div><div><div>F.</div><div>MINIMUM WELD THROAT THICKNESS (I) MUST MATCH OR EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE</div></div><div><div>G.</div><div>WEB STIFFENERS FOR STUD JOISTS SHALL BE PROVIDED AT ALL REACTION POINTS, INTERMEDIATE CONCENTRATED LOADS, AND WHERE INDICATED ON THE DRAWINGS.</div></div><div><div>H.</div><div>SEQUENCING OF WELDS SHALL BE SO AS TO AVOID DISTORTION OF MEMBERS.</div></div><div><div>I.</div><div>REPLACE ALL MEMBER WHEN BURN THROUGH DURING WELDING.</div></div><div><div>J.</div><div>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</div></div><div><div>K.</div><div>NO SPLICES IN STUDS, JOISTS, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE WITHOUT PRIOR ENGINEERING REVIEW AND SPECIFIC DETAILS FOR ANY SUCH SPLICE.</div></div><div><div>L.</div><div>TOP AND BOTTOM TRACKS TO MATCH GAGE OF STUD.</div></div><div><div>L.</div><div>INSTALL CONTINUOUS HORIZONTAL BRIDGING IN STUD SYSTEM. SPACED (VERTICAL DISTANCE) NOT TO EXCEED 4'-0" O.C. WELD OR FASTEN TO EACH STUD.</div></div></div></div><div><div>15.</div><div>POST CONSTRUCTION ANCHORS<div><div>A.</div><div>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.</div></div><div><div>B.</div><div>MECHANICAL ANCHORS SHALL BE SIMPSON TITEN HD ANCHORS UNLESS NOTED OTHERWISE. MINIMUM EMBEDMENT FOR ANCHORS ARE AS FOLLOWS UNLESS NOTED OTHERWISE.<div><div>1.</div><div>1/2" Ø ANCHORS</div><div>5 3/4"</div></div><div><div>2.</div><div>5/8" Ø ANCHORS</div><div>5 3/4"</div></div><div><div>3.</div><div>3/4" Ø ANCHORS</div><div>5 3/4"</div></div></div></div><div><div>C.</div><div>EPOXY ANCHORS IN HOLLOW MASONRY SHALL USE HILTI HY 20 ADHESIVE WITH SCREEN TUBES UNLESS NOTED OTHERWISE.</div></div><div><div>D.</div><div>EPOXY ANCHORS IN CONCRETE SHALL USE HILTI HY 150 ADHESIVE. MINIMUM EMBEDMENT FOR ANCHORS ARE AS FOLLOWS UNLESS NOTED OTHERWISE.<div><div>1.</div><div>1/2" Ø ANCHORS</div><div>4 1/4"</div></div><div><div>2.</div><div>5/8" Ø ANCHORS</div><div>5"</div></div><div><div>3.</div><div>3/4" Ø ANCHORS</div><div>6 5/8"</div></div><div><div>4.</div><div>1" Ø ANCHORS</div><div>8 1/4"</div></div></div></div><div><div>E.</div><div>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.</div></div><div><div>F.</div><div>OBSERVATION AND VERIFICATION OF EMBEDMENT HOLE CLEANING, DEPTH, AND ANCHOR INSTALLATION IS REQUIRED FOR ALL EPOXY ANCHORS.</div></div><div><div>G.</div><div>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.</div></div></div></div><div><div>16.</div><div>STRUCTURAL ENGINEER SITE OBSERVATIONS<div><div>A.</div><div>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.</div></div><div><div>B.</div><div>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.</div></div><div><div>C.</div><div>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.</div></div></div></div><div><div>17.</div><div>SUBMITTALS<div><div>A.</div><div>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.</div></div><div><div>B.</div><div>ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS OF THESE CONTRACT DOCUMENTS.</div></div><div><div>C.</div><div>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.<div><div>1.</div><div>LIGHT GAGE METAL FRAMING</div></div><div><div>2.</div><div>COLD FORMED BAR JOISTS</div></div></div></div><div><div>D.</div><div>CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING ITEMS.<div><div>1.</div><div>CONCRETE MIX DESIGN AND MATERIALS</div></div><div><div>2.</div><div>CONCRETE REINFORCING STEEL</div></div><div><div>3.</div><div>MASONRY REINFORCING STEEL</div></div><div><div>4.</div><div>STRUCTURAL STEEL</div></div><div><div>5.</div><div>LIGHT GAGE METAL FRAMING</div></div><div><div>6.</div><div>COLD FORMED ROOF, FLOOR JOISTS AND JOIST GIRDERS</div></div></div></div><div><div>E.</div><div>PROVIDE A FINAL, "FOR CONSTRUCTION" SET OF ALL SHOP DRAWINGS TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION OF THOSE ITEMS.</div></div></div></div><div><div>18.</div><div>SPECIAL INSPECTIONS<div><div>A.</div><div>THE FOLLOWING MINIMUM ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CODE. LOCAL CITY MAY REQUIRE ADDITIONAL SPECIAL INSPECTIONS.<div><div>1.</div><div>CONCRETE PLACING</div></div><div><div>2.</div><div>CONCRETE REINFORCING</div></div><div><div>3.</div><div>STEEL BOLTING</div></div><div><div>4.</div><div>STEEL WELDING</div></div><div><div>5.</div><div>BOLTS EMBEDDED IN CONCRETE / POST-INSTALLED ANCHORS</div></div><div><div>6.</div><div>ANCHOR RODS</div></div><div><div>7.</div><div>ROOF DIAPHRAGM ATTACHMENT</div></div><div><div>8.</div><div>MASONRY</div></div><div><div>9.</div><div>SOIL VERIFICATION</div></div><div><div>10.</div><div>STEEL FRAME</div></div></div></div><div><div>B.</div><div>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.</div></div><div><div>C.</div><div>STRUCTURAL OBSERVATIONS SHALL BE PROVIDED DURING CONSTRUCTION OF THE SHELTER BY A REGISTERED PROFESSIONAL.</div></div></div></div></div></div></div></div></div>	<div><div>1.</div><div>ALL WORK SHALL CONFORM TO 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEES SUMMIT, MISSOURI.</div></div> <div><div>2.</div><div>A. ROOF LOAD (5 PSF NET UPLIFT)<div><div>1.</div><div>DEAD LOAD TOP CHORD</div><div>20 PSF</div></div><div><div>2.</div><div>DEAD LOAD BOT. CHORD</div><div>5 PSF</div></div><div><div>3.</div><div>LIVE LOAD TOP CHORD</div><div>25 PSF</div></div><div><div>4.</div><div>LIVE LOAD BOT. CHORD</div><div>0 PSF (U.N.O)</div></div></div><div><div>B.</div><div>ROOF LOAD (STORM SHELTER)<div><div>1.</div><div>DEAD LOAD</div><div>SELF PSF</div></div><div><div>2.</div><div>LIVE LOAD</div><div>170 PSF</div></div></div></div><div><div>C.</div><div>FLOOR LOADS<div><div>1.</div><div>DEAD LOAD</div><div>55 PSF</div></div><div><div>2.</div><div>LIVE LOAD</div><div>100 PSF</div></div></div></div><div><div>D.</div><div>STAIR LOADS<div><div>1.</div><div>DEAD LOAD</div><div>40 PSF</div></div><div><div>2.</div><div>LIVE LOAD</div><div>100 PSF</div></div></div></div><div><div>E.</div><div>ROOF SNOW LOAD<div><div>1.</div><div>FLAT ROOF SNOW LOAD, P_f</div><div>24 PSF</div></div><div><div>2.</div><div>SNOW EXPOSURE FACTOR, C_e</div><div>0.9</div></div><div><div>3.</div><div>SNOW LOAD IMPORTANCE FACTOR, I</div><div>1.2</div></div><div><div>4.</div><div>THERMAL FACTOR, C_t</div><div>1.1</div></div><div><div>5.</div><div>DRIFTING</div><div>PER CODE</div></div></div></div><div><div>F.</div><div>WIND LOADS<div><div>1.</div><div>BASIC WIND SPEED (3 SECOND GUST)</div><div>122 MPH</div></div><div><div>2.</div><div>WIND IMPORTANCE FACTOR, I</div><div>1.0</div></div><div><div>3.</div><div>BUILDING CATEGORY</div><div>IV</div></div><div><div>4.</div><div>WIND EXPOSURE</div><div>B</div></div><div><div>5.</div><div>COMPONENTS AND CLADDING DESIGN VALUE (U.N.O.)</div><div>25 PSF</div></div></div></div><div><div>G.</div><div>SEISMIC LOADS<div><div>1.</div><div>CATEGORY</div><div>IV</div></div><div><div>2.</div><div>S_s=</div><div>0.099</div></div><div><div>3.</div><div>S₁=</div><div>0.068</div></div><div><div>4.</div><div>S_{0.5}=</div><div>0.105</div></div><div><div>5.</div><div>S_{0.1}=</div><div>0.108</div></div><div><div>6.</div><div>SEISMIC IMPORTANCE FACTOR, I</div><div>1.5</div></div><div><div>7.</div><div>SITE CLASS</div><div>C</div></div><div><div>8.</div><div>SEISMIC DESIGN CATEGORY</div><div>C</div></div><div><div>9.</div><div>SEISMIC FORCE RESISTING SYSTEMS; STEEL ORDINARY MOMENT FRAMES</div><div></div></div><div><div>10.</div><div>RESPONSE MODIFICATION COEFFICIENT, R</div><div>3 1/2</div></div><div><div>11.</div><div>SEISMIC RESPONSE COEFFICIENTS, C_s</div><div>0.045</div></div><div><div>12.</div><div>DESIGN BASE SHEAR</div><div>22 K</div></div><div><div>13.</div><div>ANALYSIS PROCEDURE; EQUIVALENT LATERAL FORCE PROCEDURE.</div><div></div></div></div></div><div><div>H.</div><div>WIND LOADS - STORM SHELTER<div><div>1.</div><div>SHELTER TYPE</div><div>TORNADO SHELTER</div></div><div><div>2.</div><div>BASIC WIND SPEED (3 SECOND GUST)</div><div>250 MPH</div></div><div><div>3.</div><div>WIND IMPORTANCE FACTOR, I</div><div>1.0</div></div><div><div>4.</div><div>BUILDING CATEGORY</div><div>IV</div></div><div><div>5.</div><div>WIND EXPOSURE</div><div>C</div></div><div><div>6.</div><div>INTERNAL PRESSURE COEFFICIENT; GCPI</div><div>+/- 0.55</div></div><div><div>7.</div><div>WALL COMPONENTS & CLADDING (U.N.O.)</div><div>REF. S-307</div></div><div><div>8.</div><div>ROOF COMPONENTS & CLADDING (U.N.O.)</div><div>REF. S-307</div></div><div><div>9.</div><div>WIND UPLIFT</div><div>163 PSF</div></div><div><div>10.</div><div>TOPOGRAPHIC FACTOR; K_{zt}</div><div>1.0</div></div><div><div>11.</div><div>DIRECTIONALITY FACTOR; K_d</div><div>1.0</div></div><div><div>12.</div><div>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.</div><div></div></div><div><div>13.</div><div>STRUCTURE IS NOT LOCATED IN A FLOOD ZONE.</div><div></div></div></div></div><div><div>3.</div><div>CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO FABRICATION. REFERENCE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.</div></div><div><div>4.</div><div>IF DISCREPANCIES EXIST BETWEEN SPECIFICATIONS, CONTRACT DRAWINGS, AND/OR SHOP DRAWINGS NOTIFY THE ENGINEER OF RECORD.</div></div><div><div>5.</div><div>THE CONTRACTOR SHALL REVIEW DRAWINGS FROM ALL OTHER DISCIPLINES FOR PERTINENT MISC. ITEMS OR INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED.</div></div><div><div>6.</div><div>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.</div></div><div><div>7.</div><div>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.</div></div><div><div>8.</div><div>FOUNDATIONS<div><div>A.</div><div>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.</div></div><div><div>B.</div><div>CONTRACTOR SHALL REMOVE EXISTING FOOTINGS AND FOUNDATIONS THAT ARE LOCATED WITHIN THE FOOTPRINT OF THE NEW BUILDING.</div></div><div><div>C.</div><div>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.</div></div></div></div><div><div>9.</div><div>CONCRETE<div><div>A.</div><div>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.</div></div><div><div>B.</div><div>ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:<div><div>1.</div><div>FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS:</div><div>4000 PSI (w/c MAX 0.45)</div></div><div><div>2.</div><div>SLAB ON GRADE:</div><div>4000 PSI (w/c MAX 0.42)</div></div><div><div>3.</div><div>ELEVATED COMPOSITE SLAB:</div><div>4000 PSI (w/c MAX 0.42)</div></div><div><div>4.</div><div>REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.</div></div></div></div><div><div>C.</div><div>SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH.</div></div><div><div>D.</div><div>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.</div></div><div><div>E.</div><div>CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES.</div></div><div><div>F.</div><div>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).</div></div><div><div>G.</div><div>CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (+/- 1%) ENTRAINED AIR BY VOLUME.</div></div><div><div>H.</div><div>CHAMFER ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE.</div></div><div><div>I.</div><div>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 DISLODGING AGGREGATE, OR USE A KEVED COLD JOINT.</div></div><div><div>J.</div><div>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.</div></div><div><div>K.</div><div>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 ARCH</div></div></div></div></div>
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A1 FOUNDATION PLAN
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 BEARING 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.
- 11.

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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STRUCTURAL ENGINEER
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MECH., ELECT. & PLMG. ENGINEERS
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MISSOURI COA #010022
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SHAWNEE, KS 66217
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SECURITY & IT ENGINEERS
HENDERSON ENGINEERS
MISSOURI COA #000556
1801 MAIN STREET, SUITE 300
KANSAS CITY, MO 64108
(816) 663-8700

ISSUED FOR CONSTRUCTION

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

REVISIONS:

#	Description	Date



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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BEFORE PRINTING THIS

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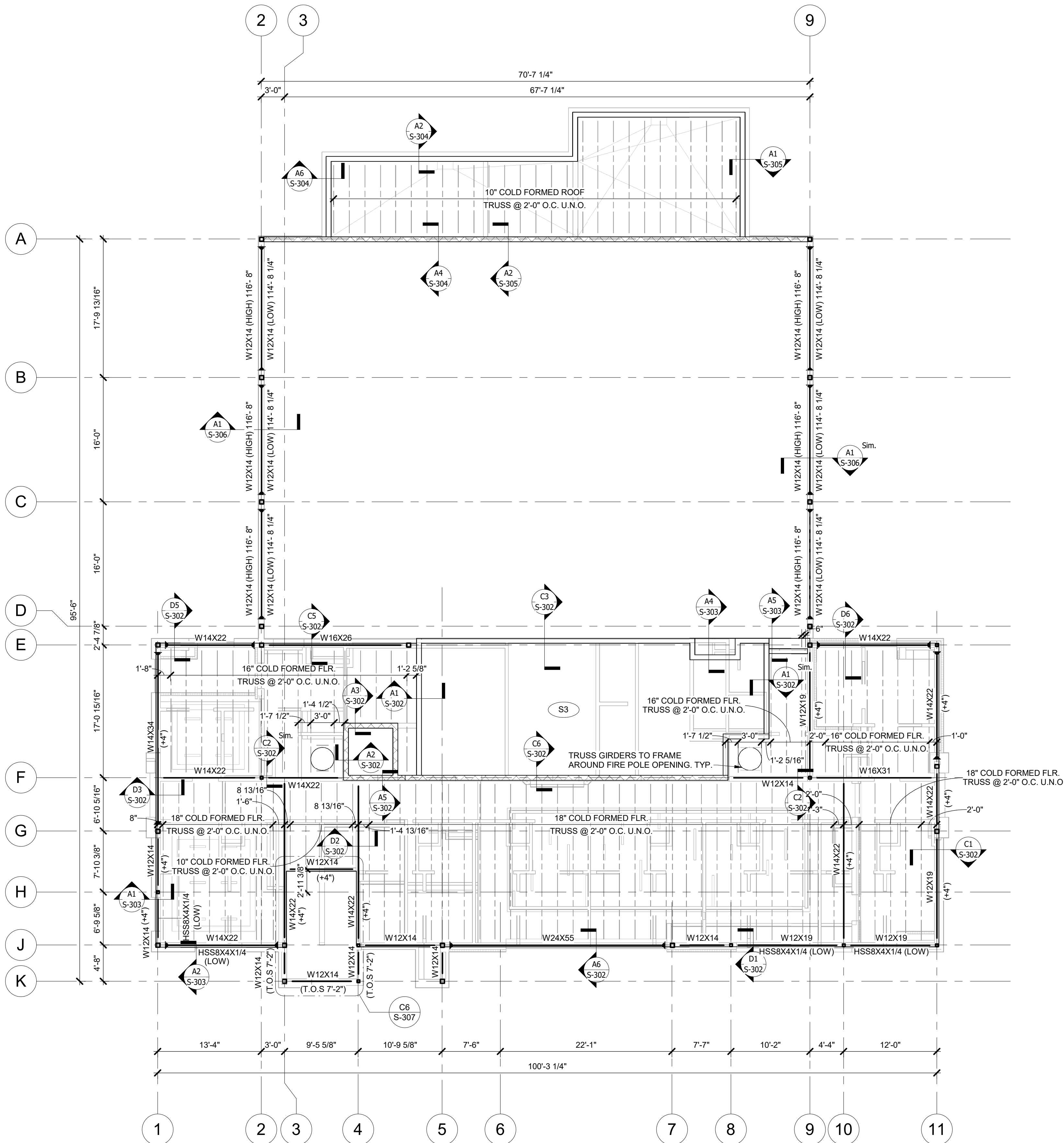
E

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.	
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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:

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

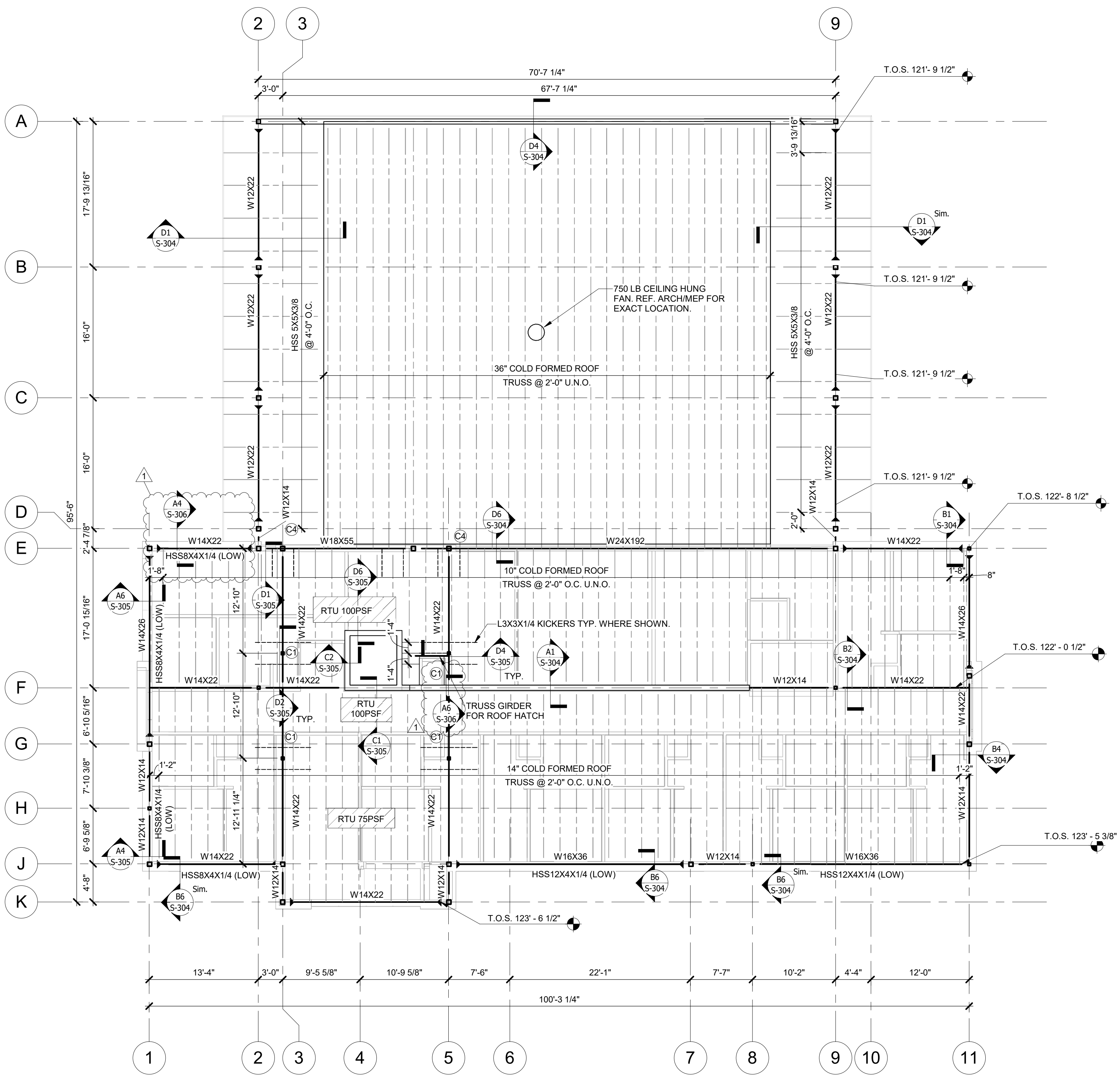
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**LEVEL 2
FRAMING PLAN**

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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JORDAN M. BENNETT
NUMBER
PE-2022019960
11.14.2022

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

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LOW ROOF
FRAMING PLAN

S-103

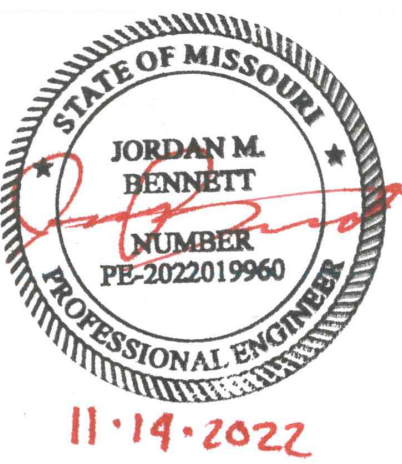
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- ROOF FRAMING PLAN NOTES:**
1. ROOF DECK TO BE 1.5B 20 GA. DECK FASTENED IN A 3/4" PATTERN USING # 10 SCREWS
 2. OPENINGS IN ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
 3. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE PLANS.
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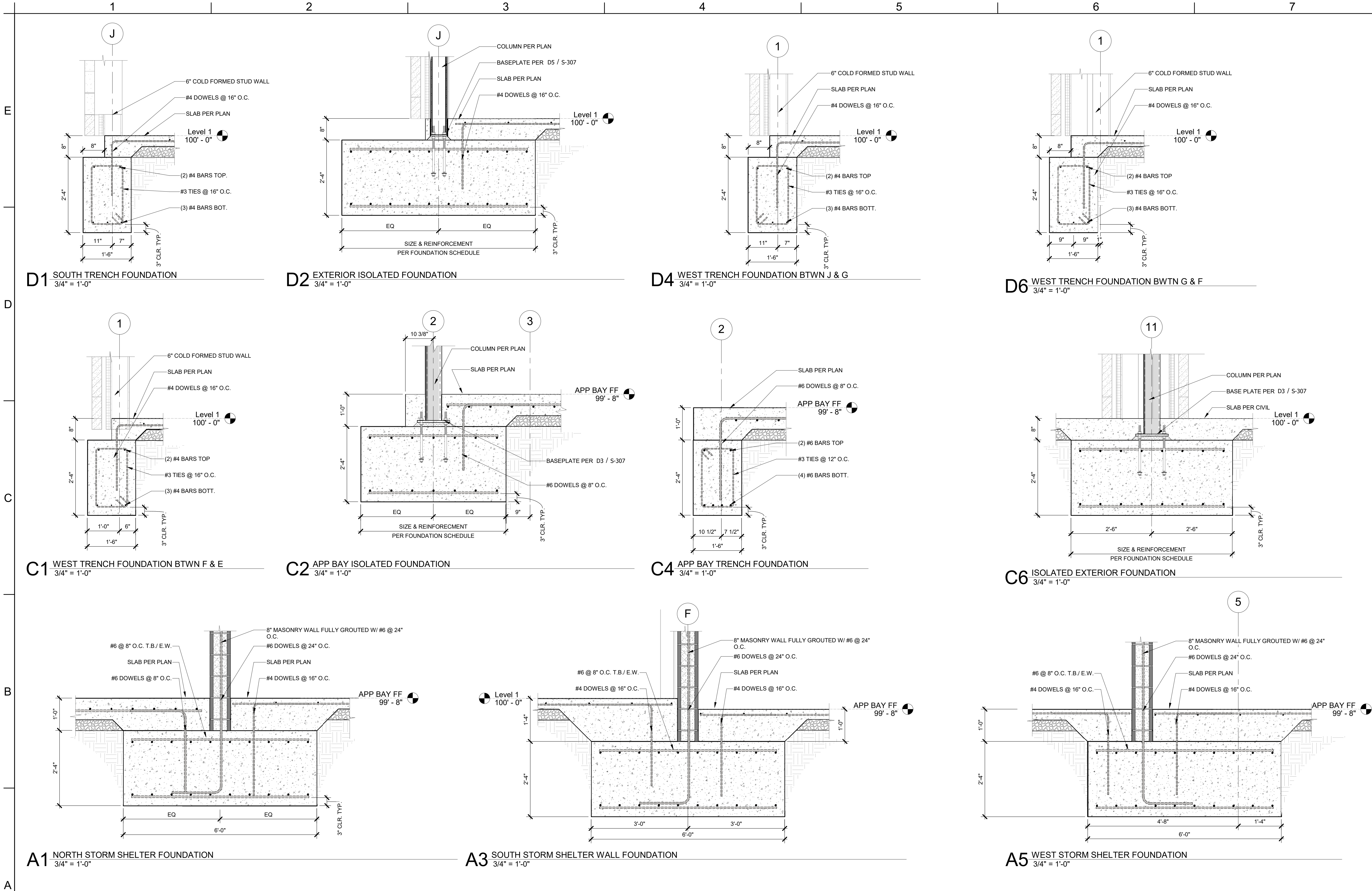


PROJECT NO:	18225R2100
DATE:	11.16.2021
DRAWN BY:	JM
CHK'D BY:	WN

HIGH ROOF FRAMING PLAN

S-104

FILE PATH: BM 360//182252R21001_LeesSummitFireStation_#4 and #5LSMO_FIRE STATIONS_STRUCT.rvt



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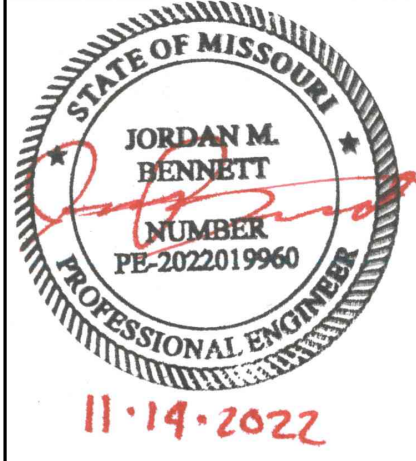
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5031 NORTHEAST LAKEWOOD WAY
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REVISIONS:

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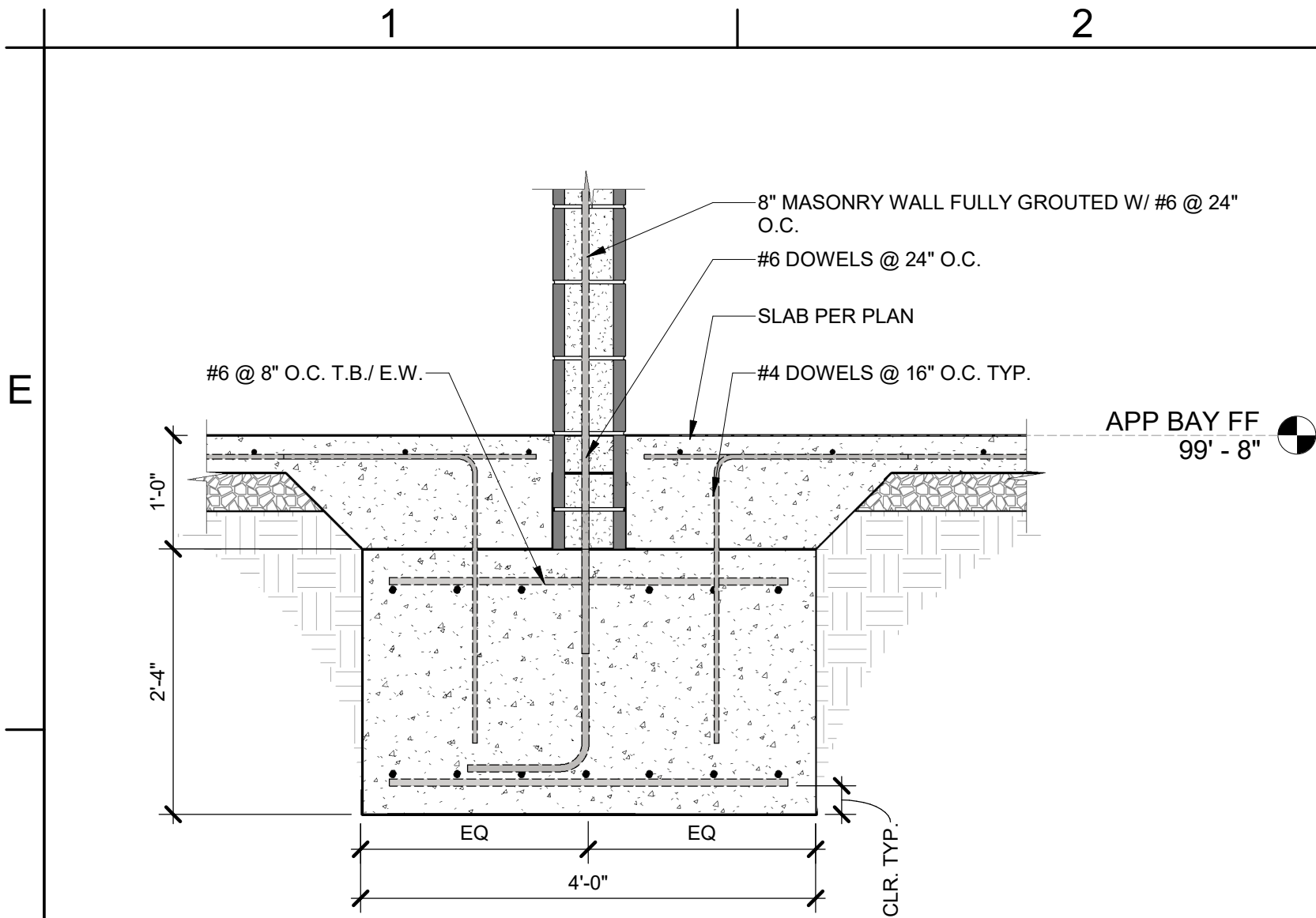
PROJECT NO: 18225R21001
DATE: 11.16.2022
DRAWN BY: JMB
CHKD BY: WNH

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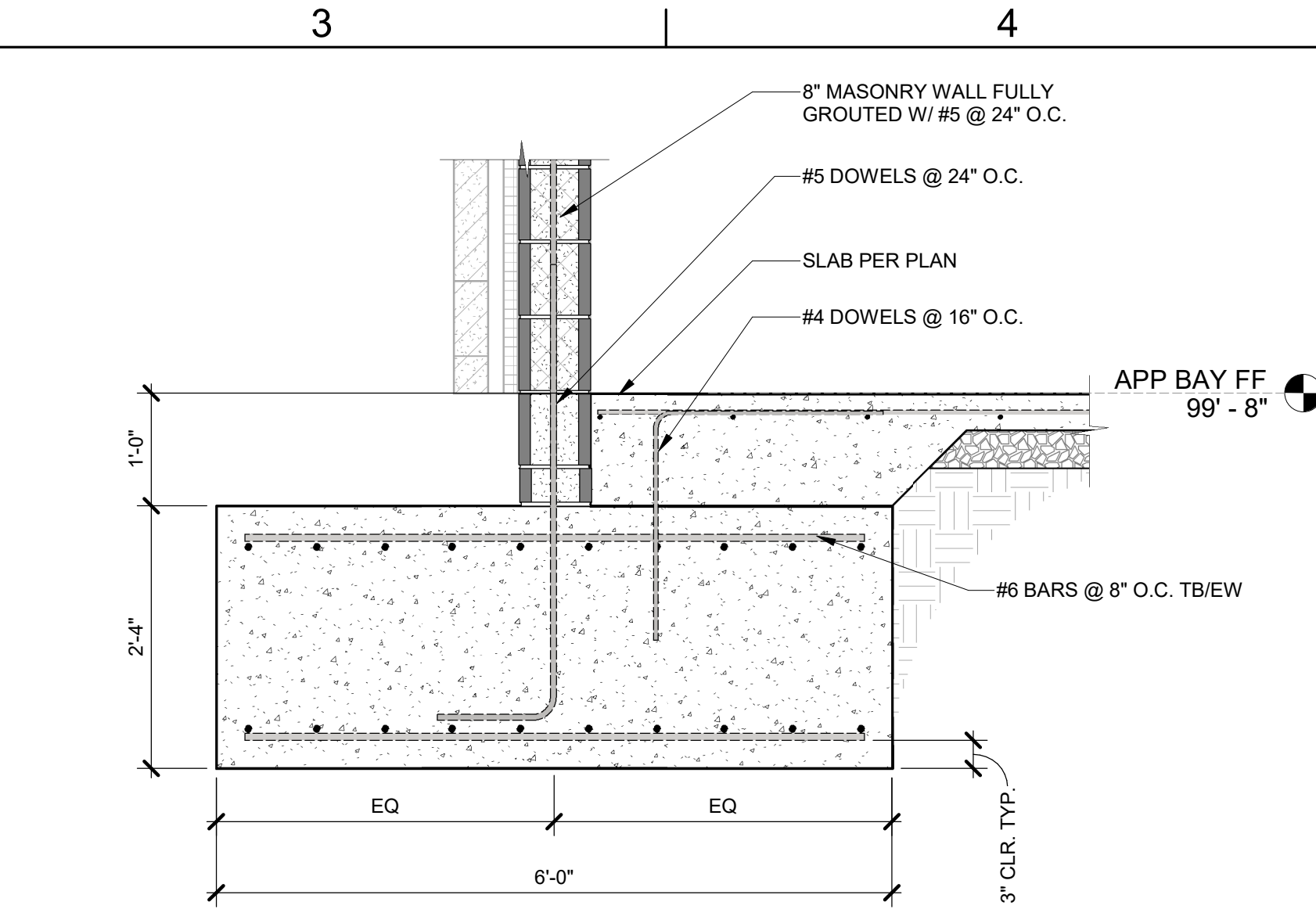
**FOUNDATION
SECTIONS**

S-300

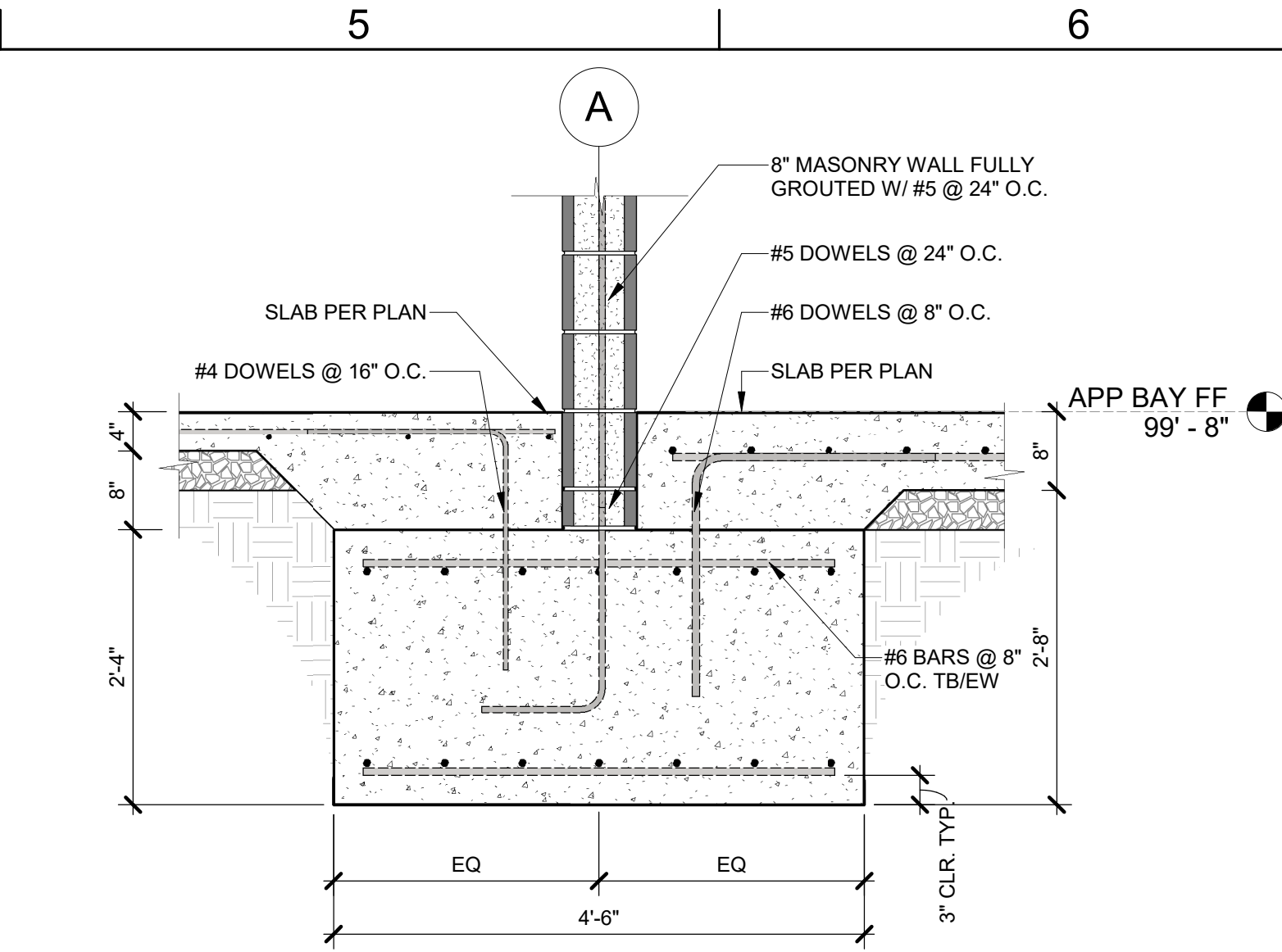
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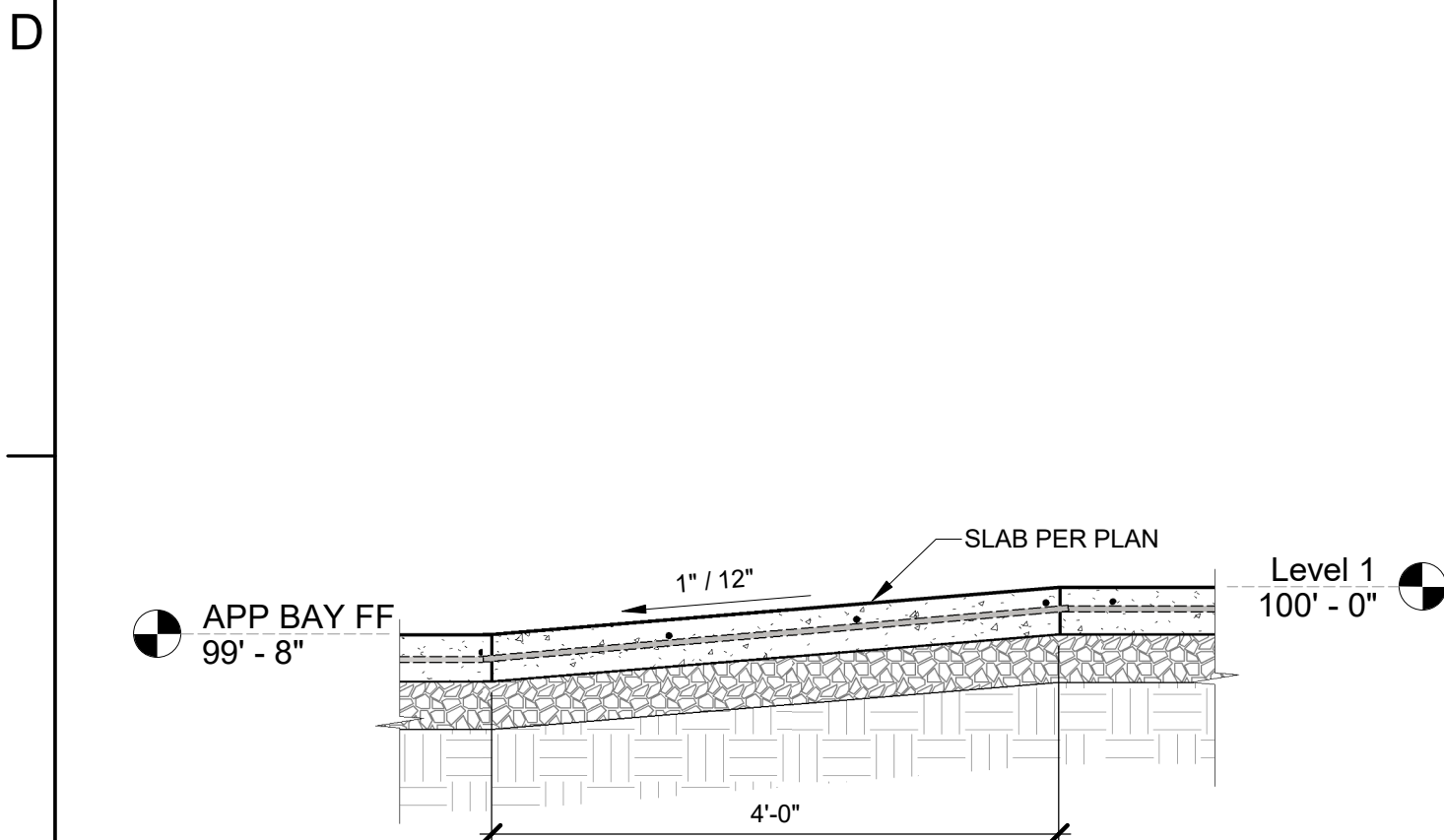
D1 EAST STORM SHELTER FOUNDATION
3/4" = 1'-0"



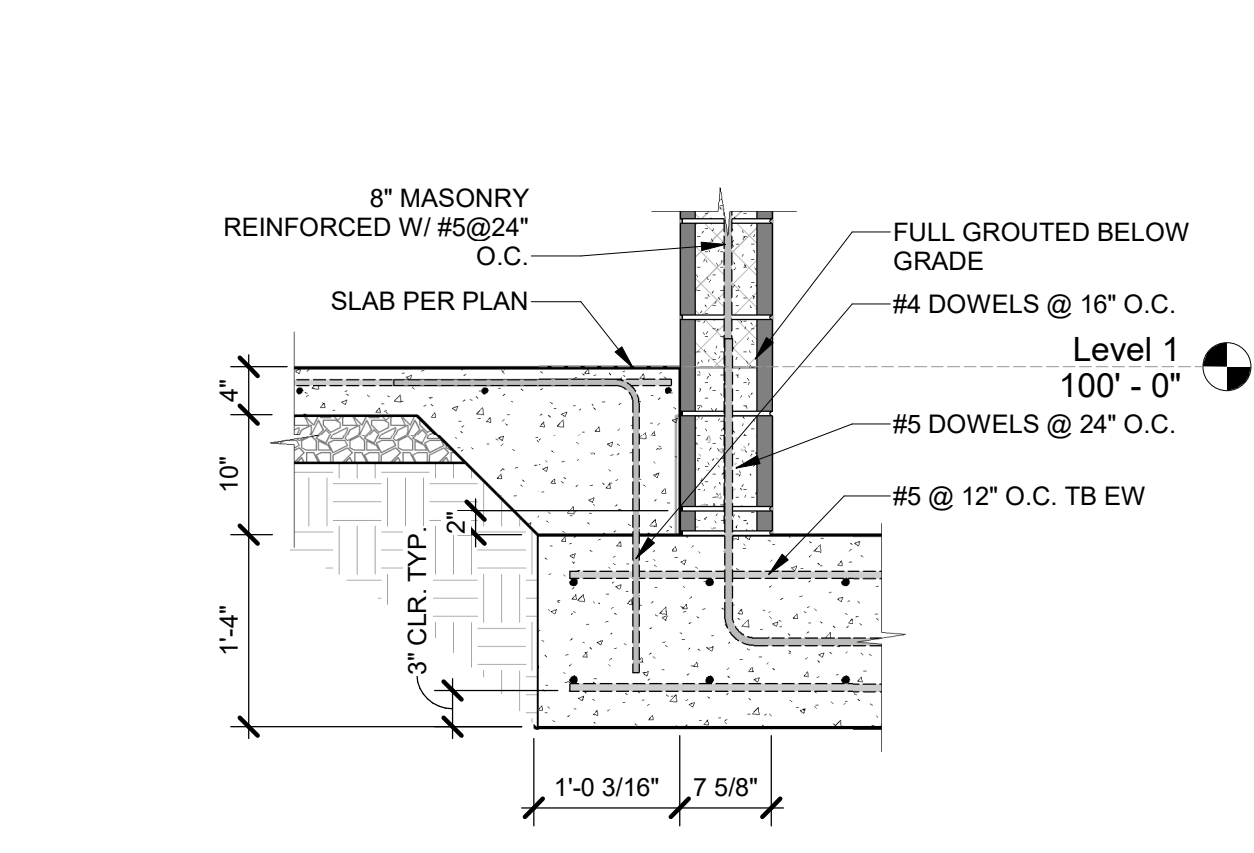
D3 EXTERIOR MASONRY WALL FOUNDATION
3/4" = 1'-0"



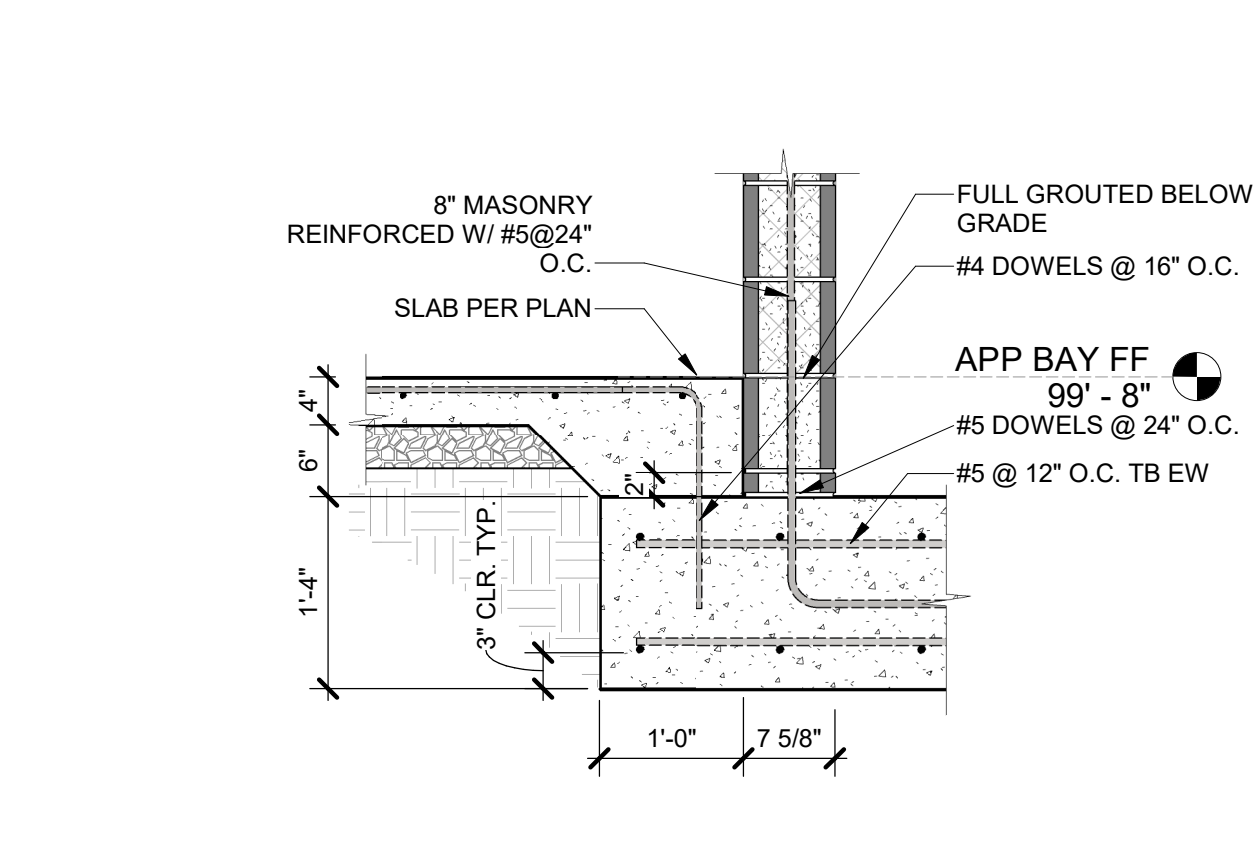
D5 APP BAY NORTH MASONRY WALL FOUNDATION
3/4" = 1'-0"



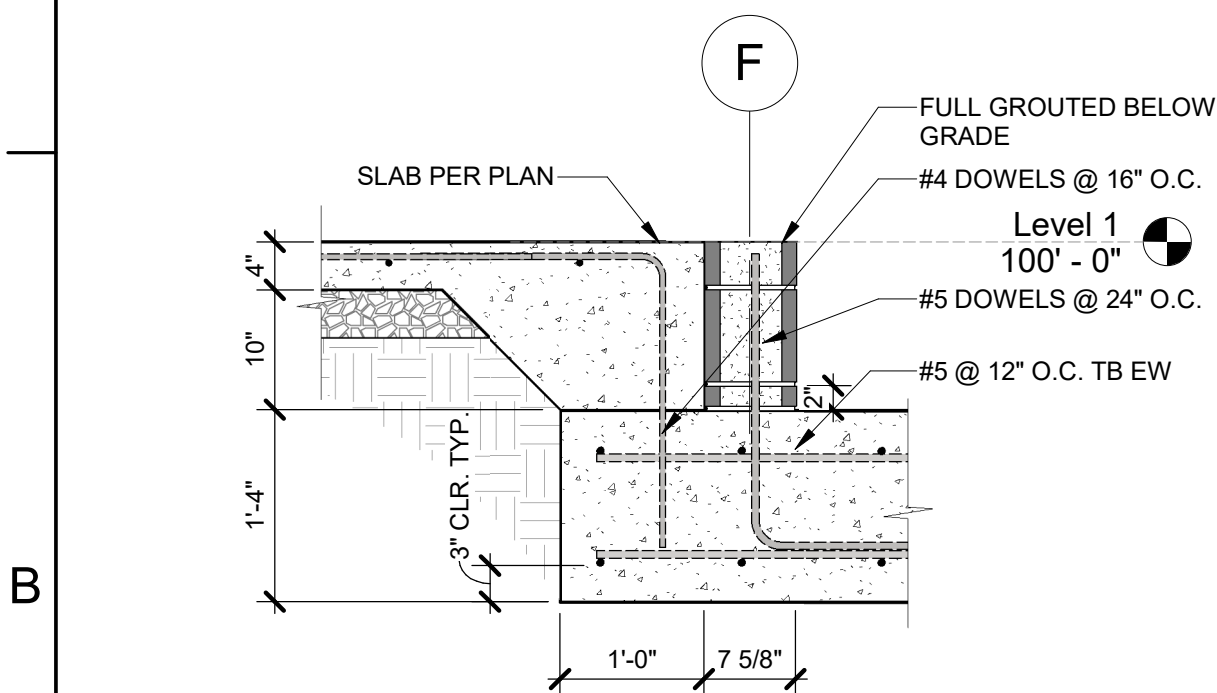
C1 FLOOR SLAB RAMP SECTION
3/4" = 1'-0"



C3 SECTION
3/4" = 1'-0"



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



B1 ELEVATOR FOUNDATION SECTION
3/4" = 1'-0"



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FIRE STATION #4
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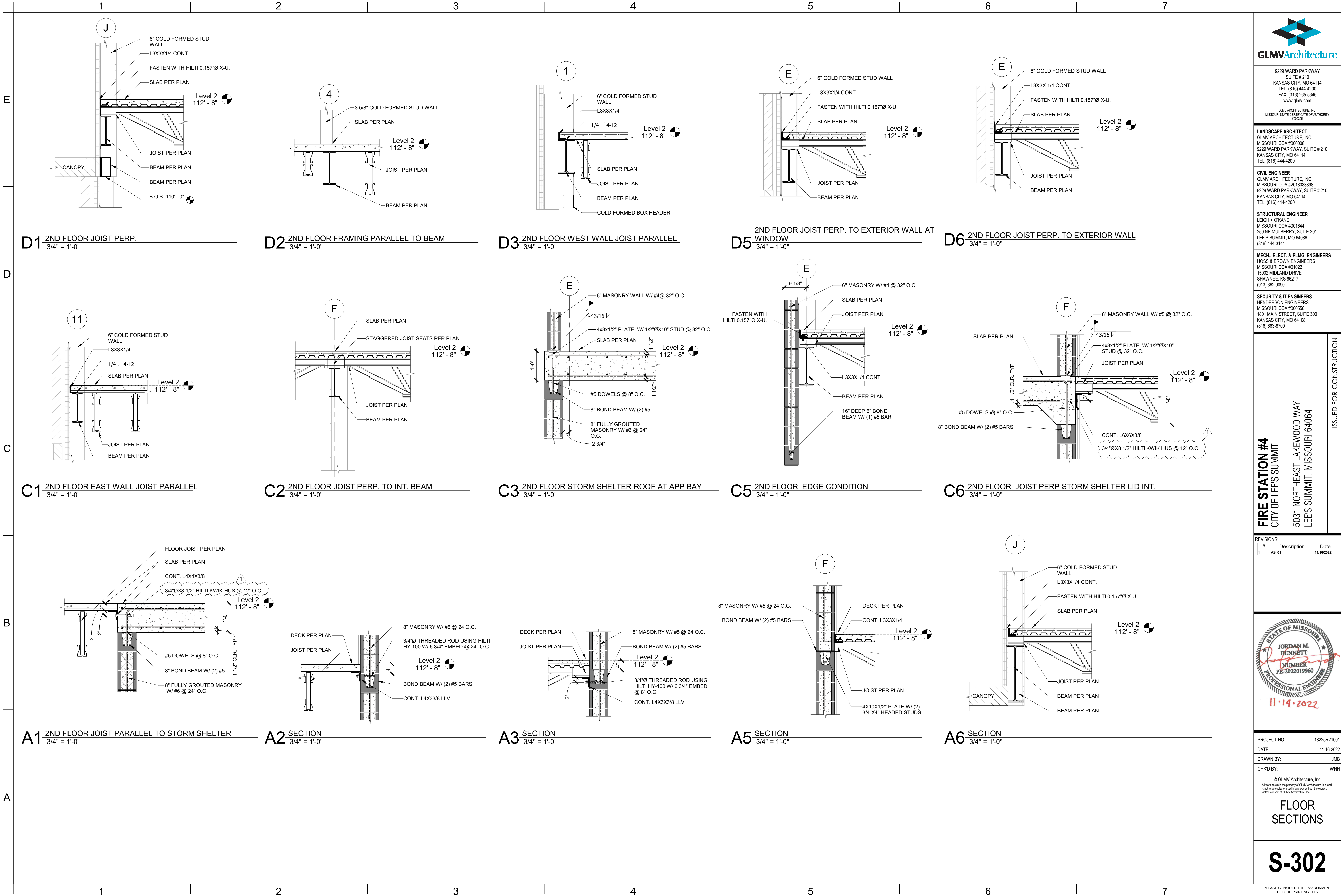
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FOUNDATION
SECTIONS

S-301

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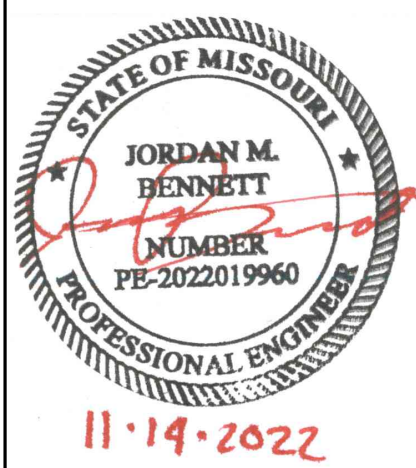
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**FLOOR
SECTIONS**

S-302

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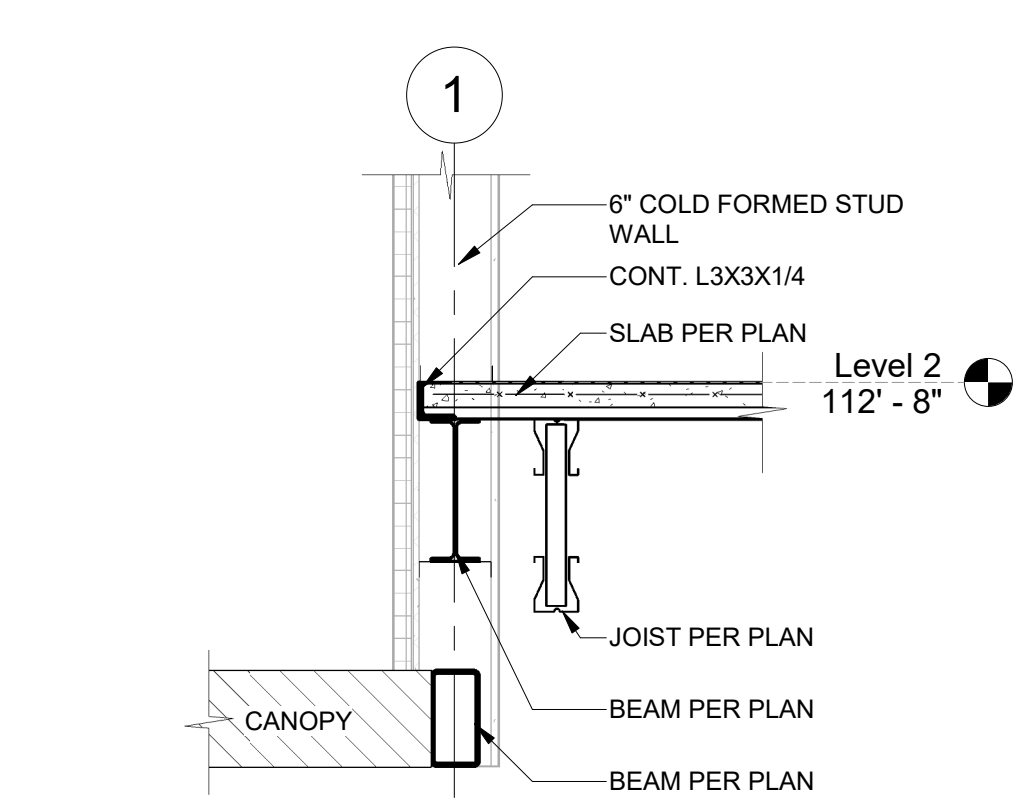
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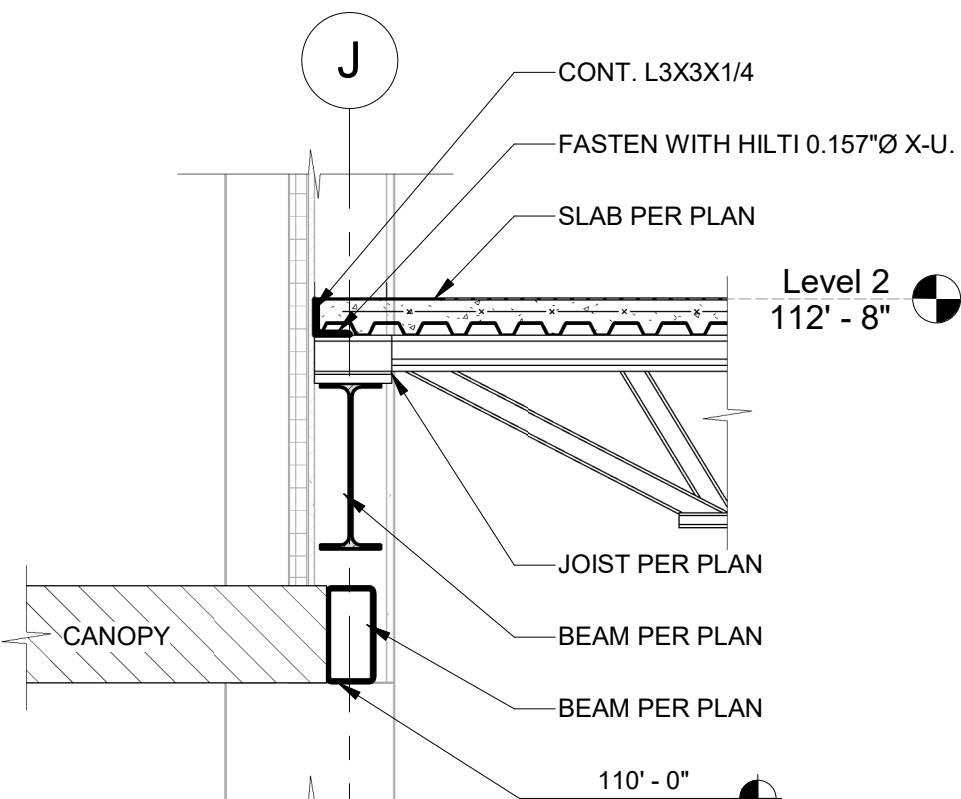
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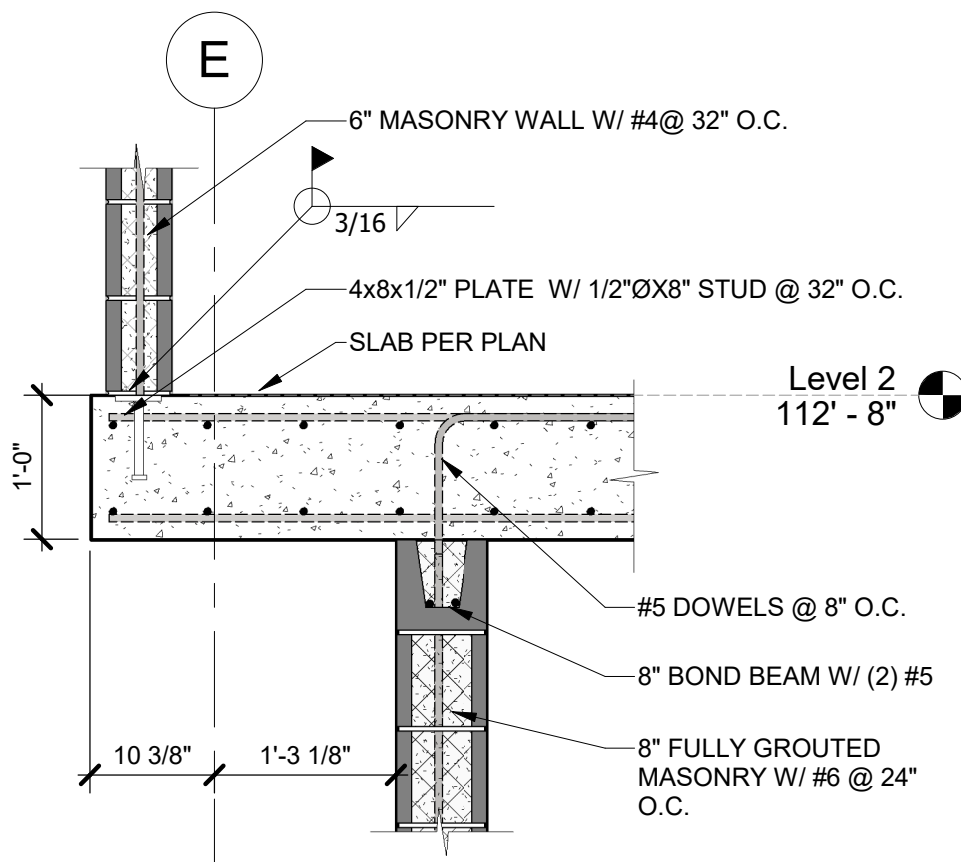
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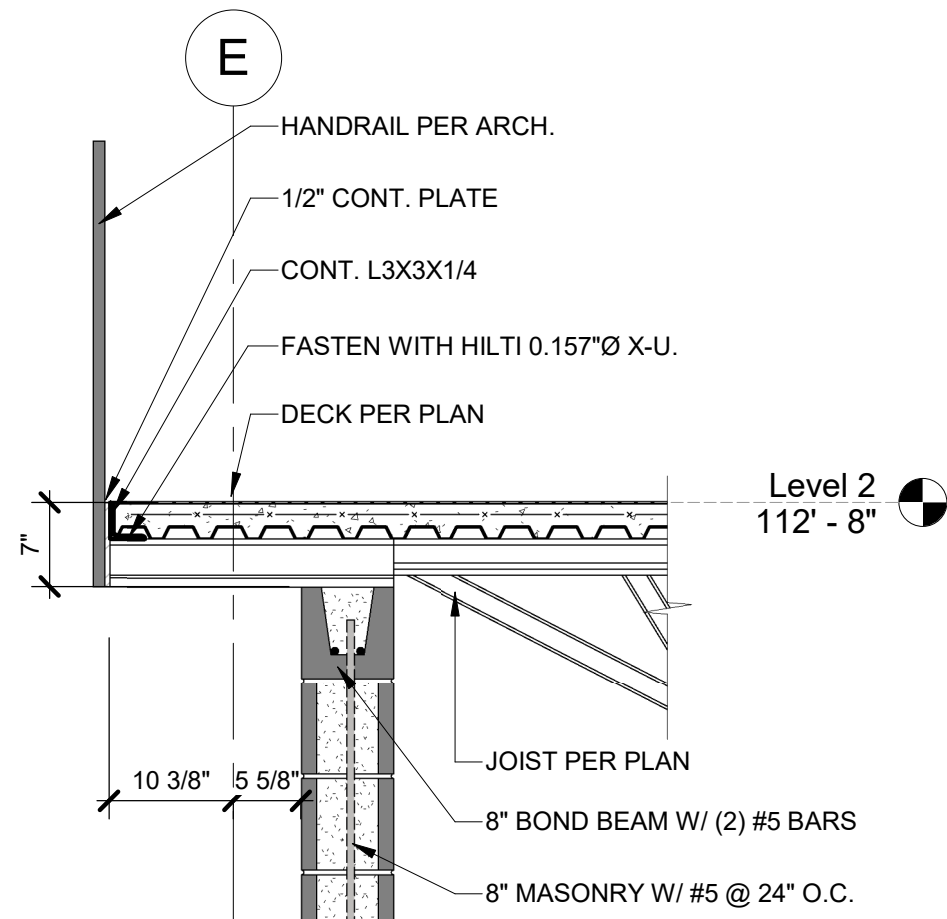
A1 SECTION
3/4" = 1'-0"



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



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



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



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FIRE STATION #4

CITY OF LEE'S SUMMIT

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PROJECT NO: 18225R21001

DATE: 11.16.2022

DRAWN BY: JMB

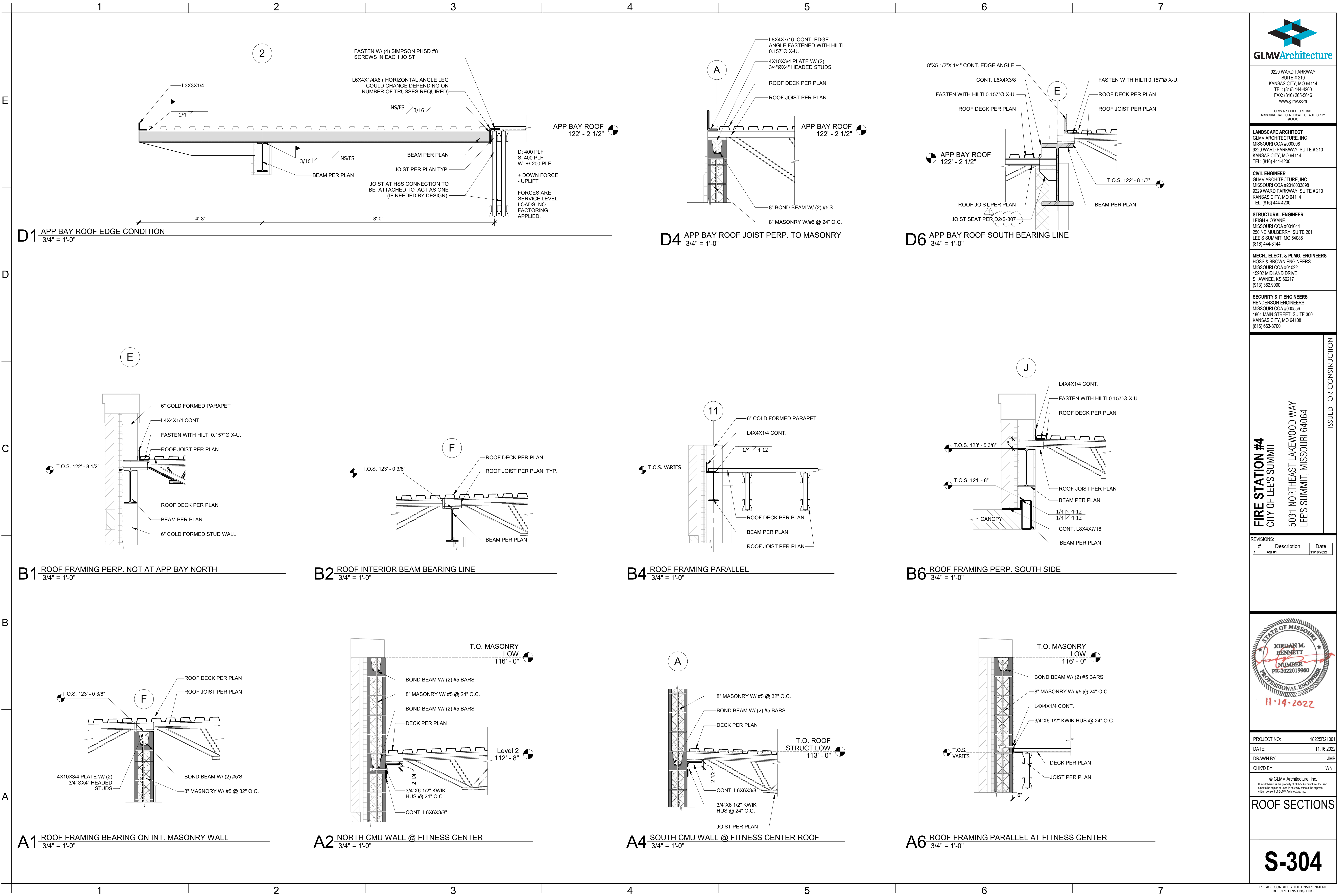
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**FLOOR
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PROJECT NO:	18225R21001
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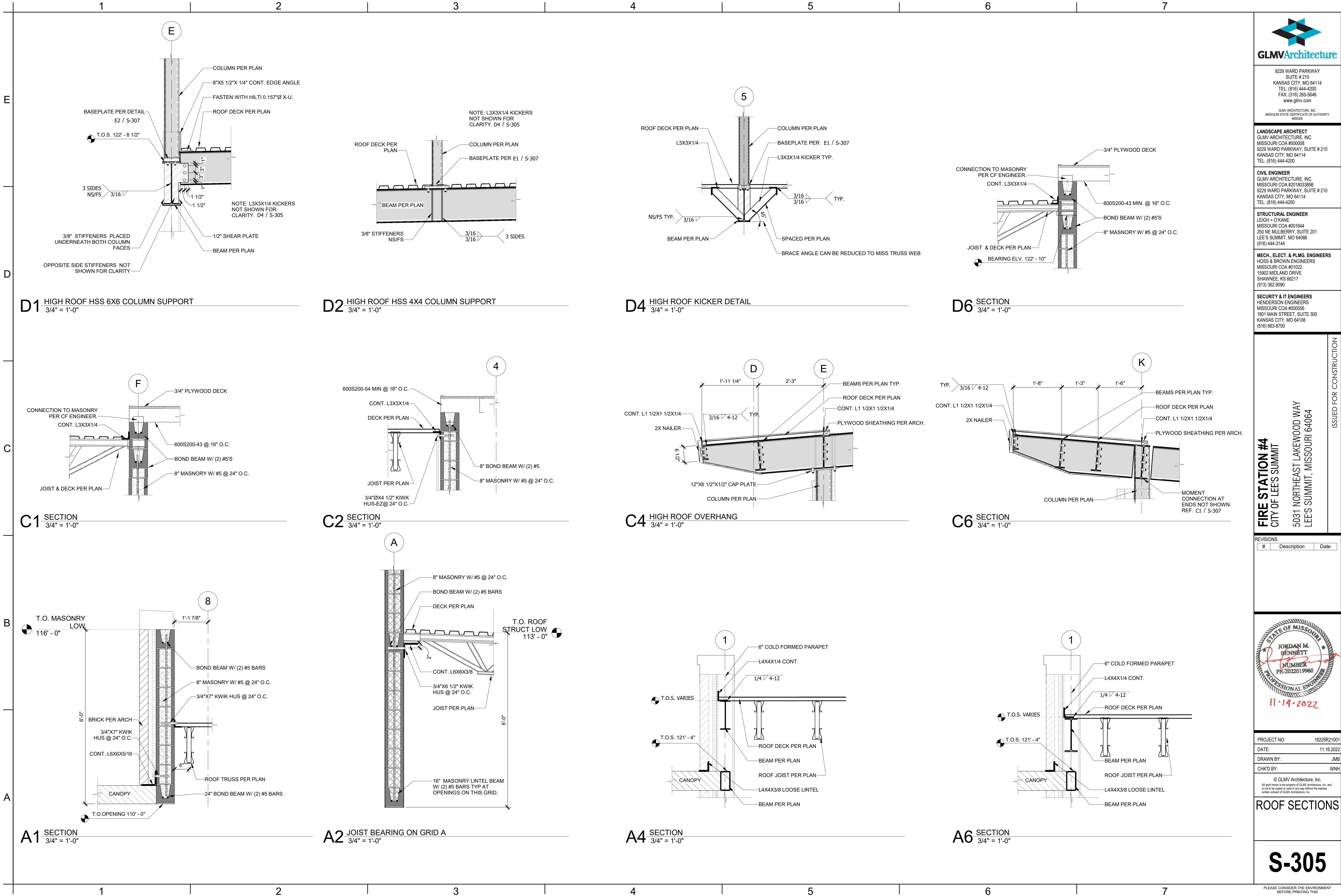
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ROOF SECTIONS

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ROOF SECTIONS

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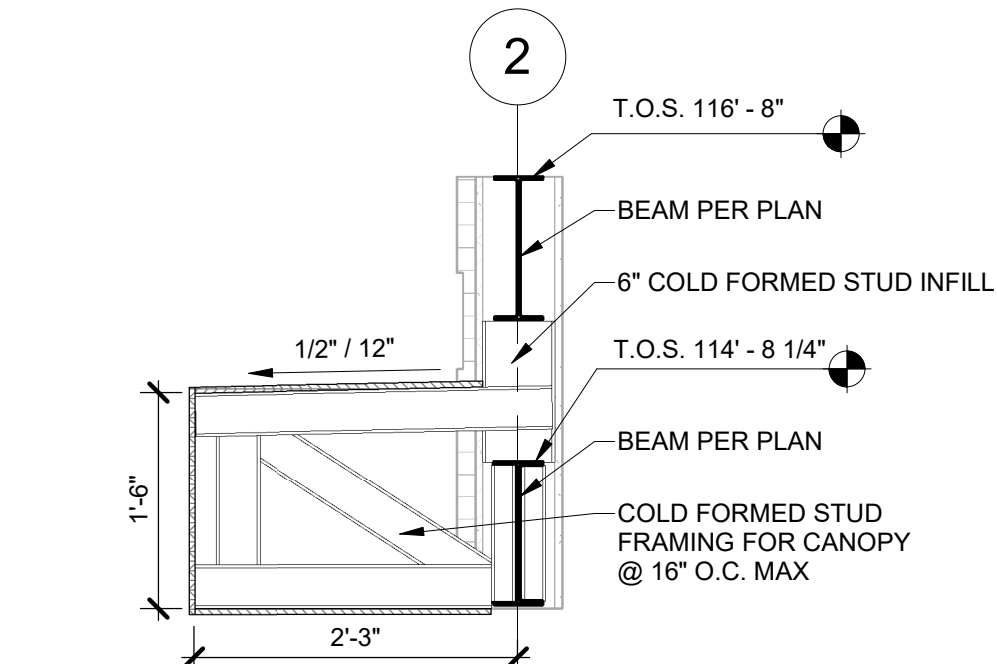
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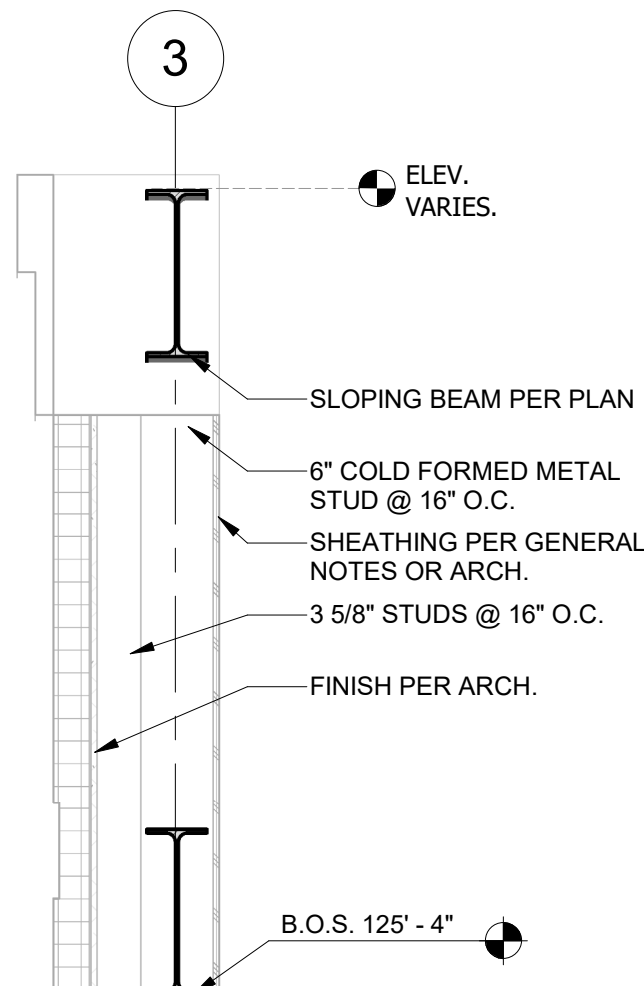
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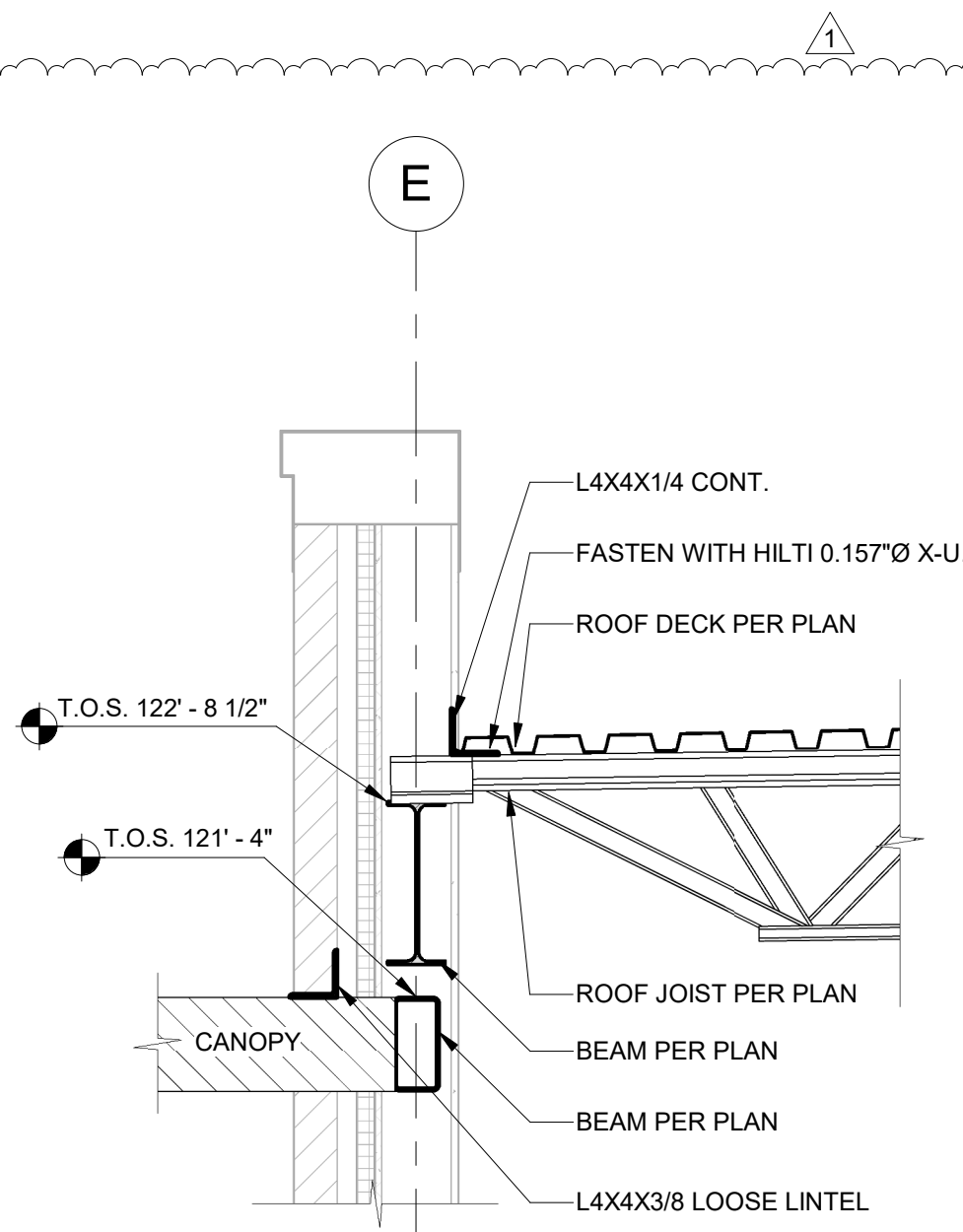
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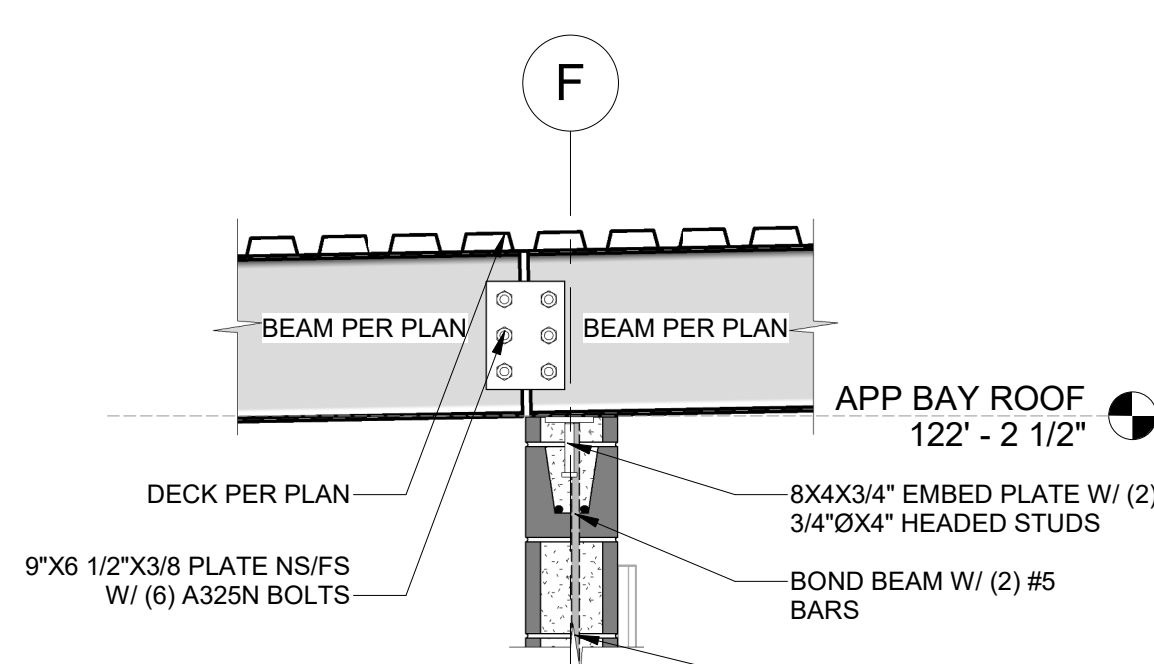
A1 APP BAY CANOPY
3/4" = 1'-0"



A2 HIGH ROOF WALL FRAMING
3/4" = 1'-0"



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



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



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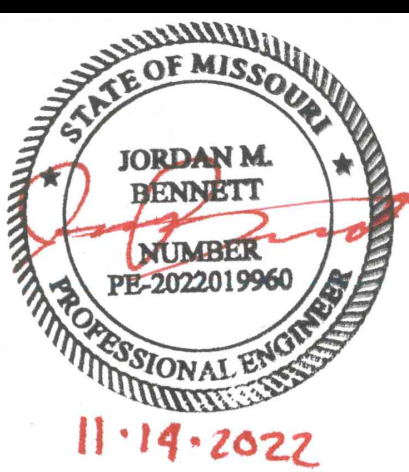
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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
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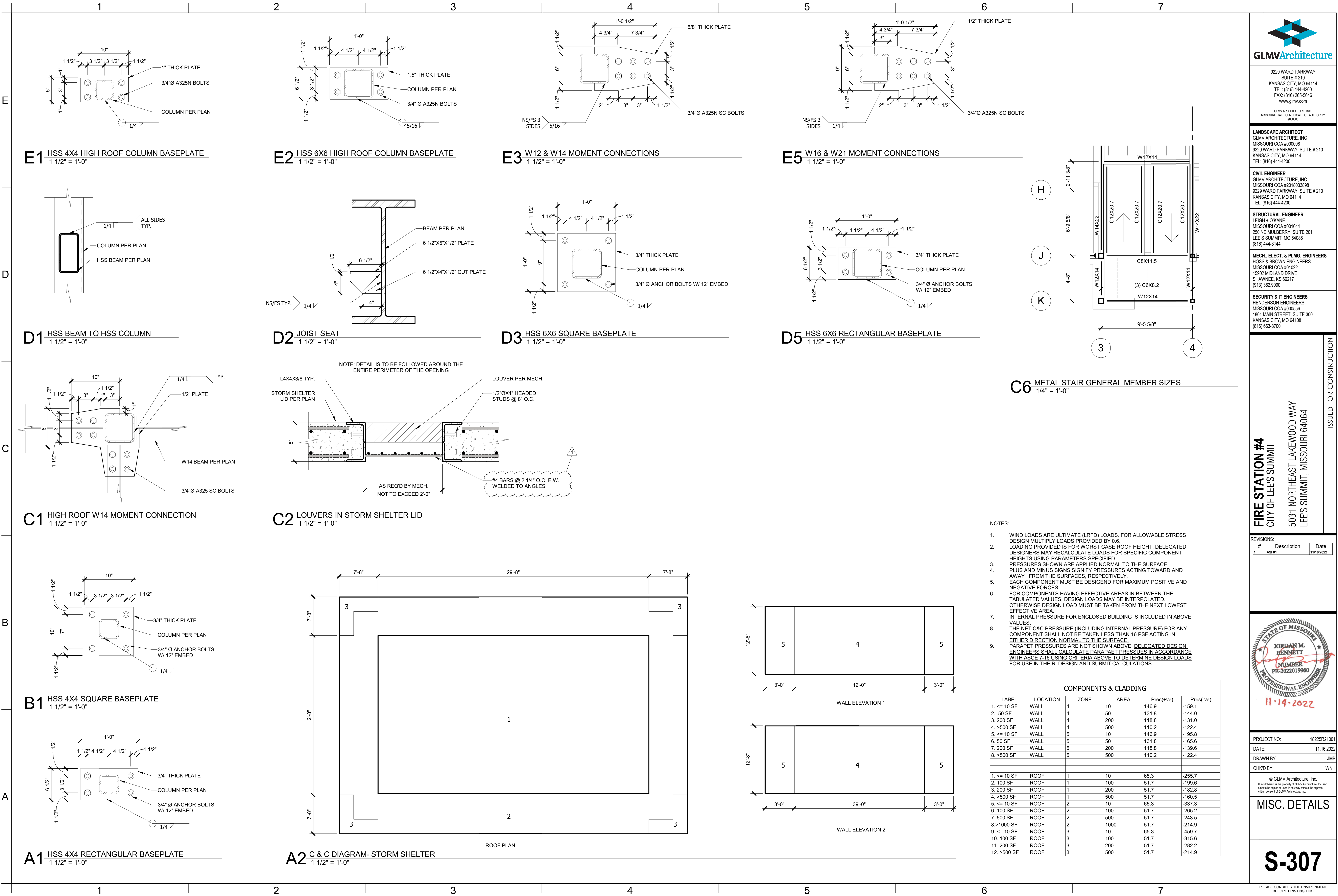
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ROOF SECTIONS

S-306

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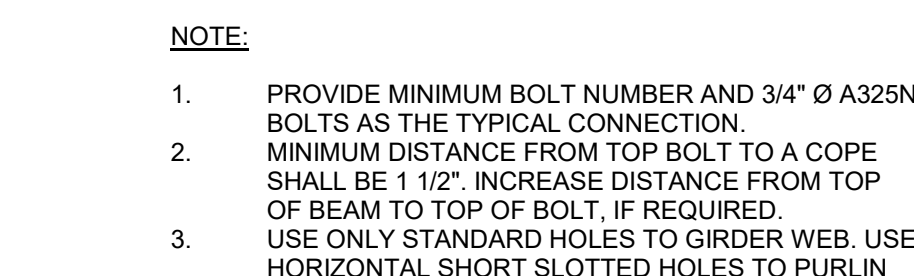
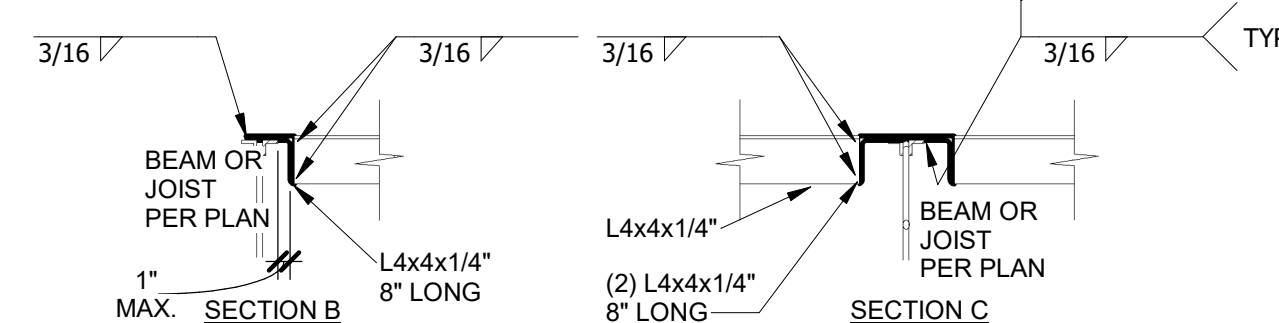
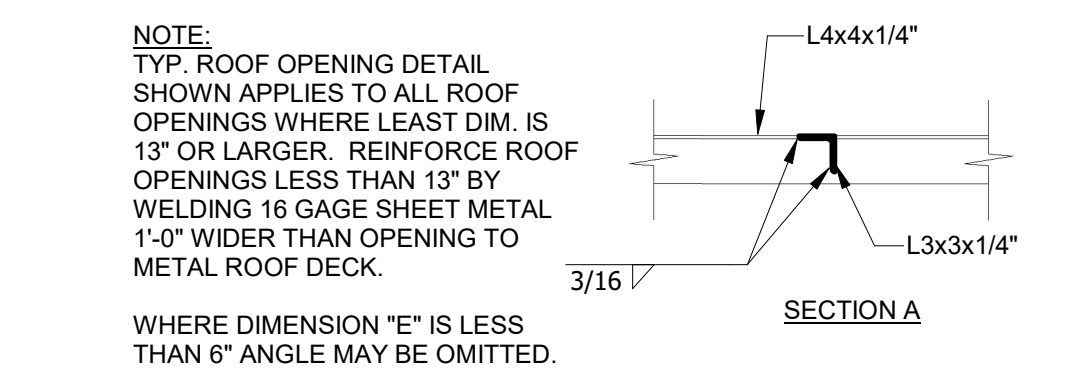
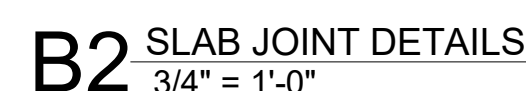
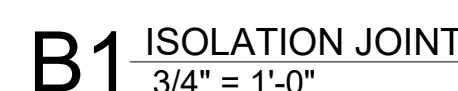
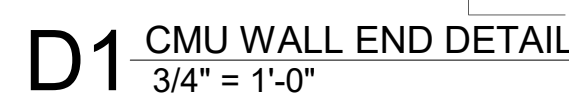
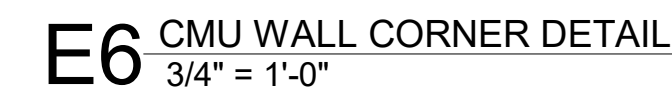
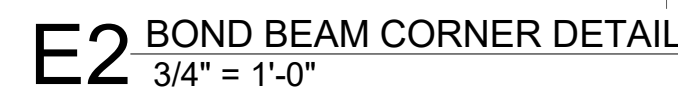
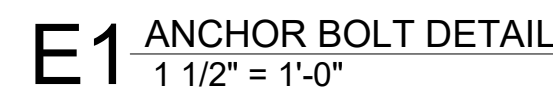
MISC. DETAILS

S-307

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- NOTES:
- WIND LOADS ARE ULTIMATE (LRFD) LOADS. FOR ALLOWABLE STRESS DESIGN MULTIPLY LOADS PROVIDED BY 0.8.
 - LOADING PROVIDED IS FOR WORST CASE ROOF HEIGHT. DELEGATED DESIGNERS MAY RECALCULATE LOADS FOR SPECIFIC COMPONENT HEIGHTS USING PARAMETERS SPECIFIED.
 - PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE.
 - PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
 - EACH COMPONENT MUST BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
 - FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN THE TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD MUST BE TAKEN FROM THE NEXT LOWEST EFFECTIVE AREA.
 - INTERNAL PRESSURE FOR ENCLOSED BUILDING IS INCLUDED IN ABOVE VALUES.
 - THE NET C&C PRESSURE (INCLUDING INTERNAL PRESSURE) FOR ANY COMPONENT SHALL NOT BE TAKEN LESS THAN 16 PSF ACTING IN EITHER DIRECTION NORMAL TO THE SURFACE.
 - PARAPET PRESSURES ARE NOT SHOWN ABOVE. DELEGATED DESIGN ENGINEERS SHALL CALCULATE PARAPET PRESSURES IN ACCORDANCE WITH ASCE 7-16 USING CRITERIA ABOVE TO DETERMINE DESIGN LOADS FOR USE IN THEIR DESIGN AND SUBMIT CALCULATIONS.

COMPONENTS & CLADDING					
LABEL	LOCATION	ZONE	AREA	Pres(+ve)	Pres(-ve)
1. <= 10 SF	WALL	4	10	146.9	-159.1
2. 50 SF	WALL	4	50	131.8	-144.0
3. 200 SF	WALL	4	200	118.8	-131.0
4. >500 SF	WALL	4	500	110.2	-122.4
5. <= 10 SF	WALL	5	10	146.9	-195.8
6. 50 SF	WALL	5	50	131.8	-165.6
7. 200 SF	WALL	5	200	118.8	-139.6
8. >500 SF	WALL	5	500	110.2	-122.4
1. <= 10 SF	ROOF	1	10	65.3	-255.7
2. 100 SF	ROOF	1	100	51.7	-199.6
3. 200 SF	ROOF	1	200	51.7	-182.8
4. >500 SF	ROOF	1	500	51.7	-160.5
5. <= 10 SF	ROOF	2	10	65.3	-337.3
6. 100 SF	ROOF	2	100	51.7	-265.2
7. 500 SF	ROOF	2	500	51.7	-243.5
8. >1000 SF	ROOF	2	1000	51.7	-214.9
9. <= 10 SF	ROOF	3	10	65.3	-459.7
10. 100 SF	ROOF	3	100	51.7	-315.6
11. 200 SF	ROOF	3	200	51.7	-282.2
12. >500 SF	ROOF	3	500	51.7	-214.9



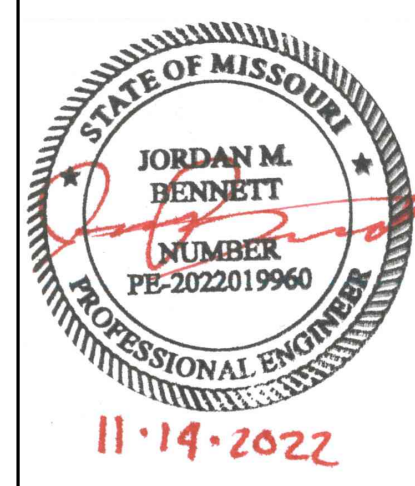
CONNECTION SCHEDULE	
NOMINAL BEAM DEPTH "D"	"N" ROWS OF BOLTS
W8 TO W10	2
W12 TO W14	3
W16	4
W18	5
W21-W24	6
W27	7
W30	8
W33	9
W36	10
W40	11
W44	12

A4 TYP. SHEAR PLATE CONNECTION
3/4" = 1'-0"



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TYPICAL DETAIL

S-500

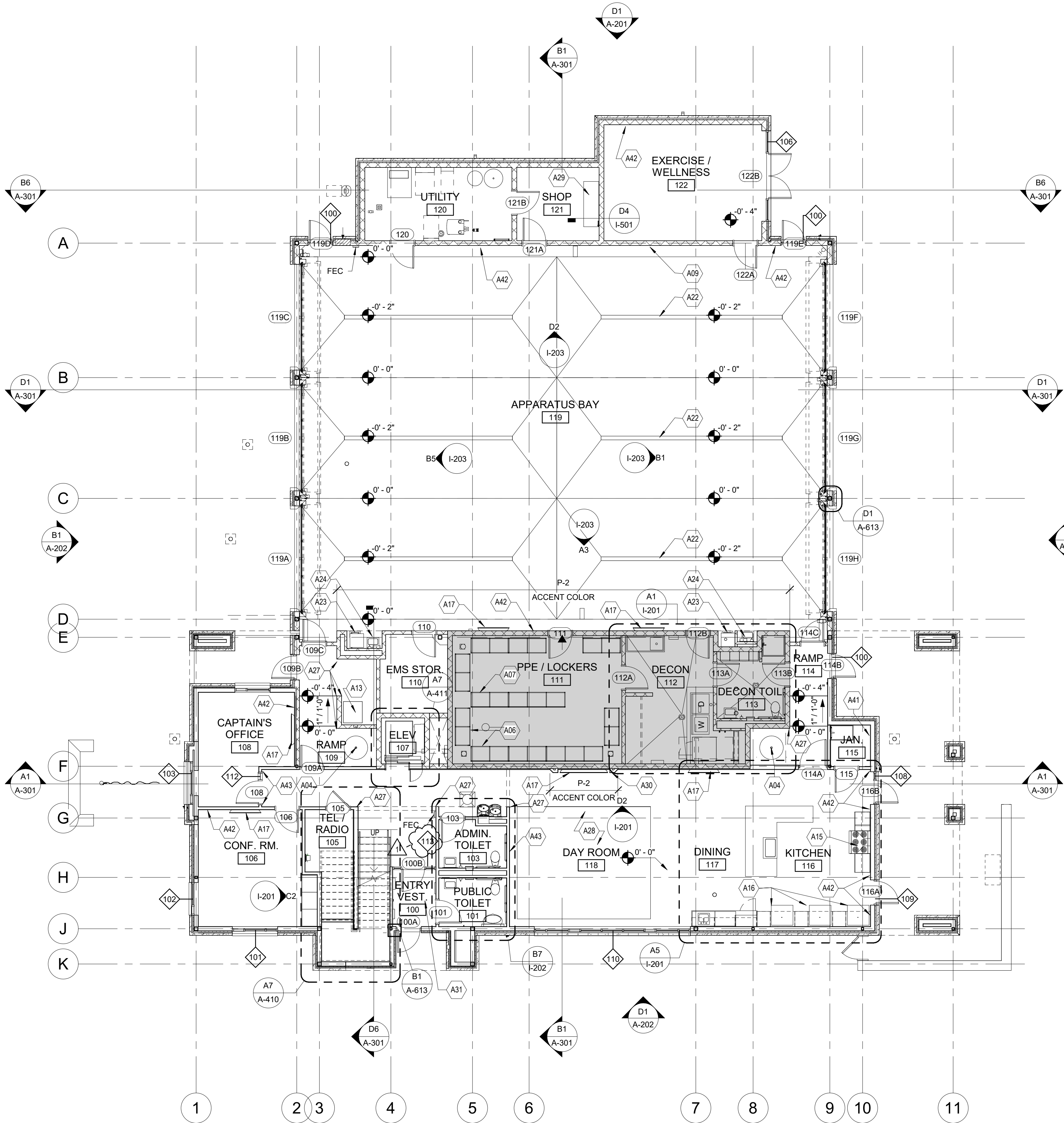
E

D

C

B

A



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

ARCH NOTES

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

FLOOR PLAN KEYNOTES

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

FLOOR PLAN NOTES

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



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FIRE STATION #4
CITY OF LEE'S SUMMIT
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#	Description	Date
1	A51 01	11/21/2022



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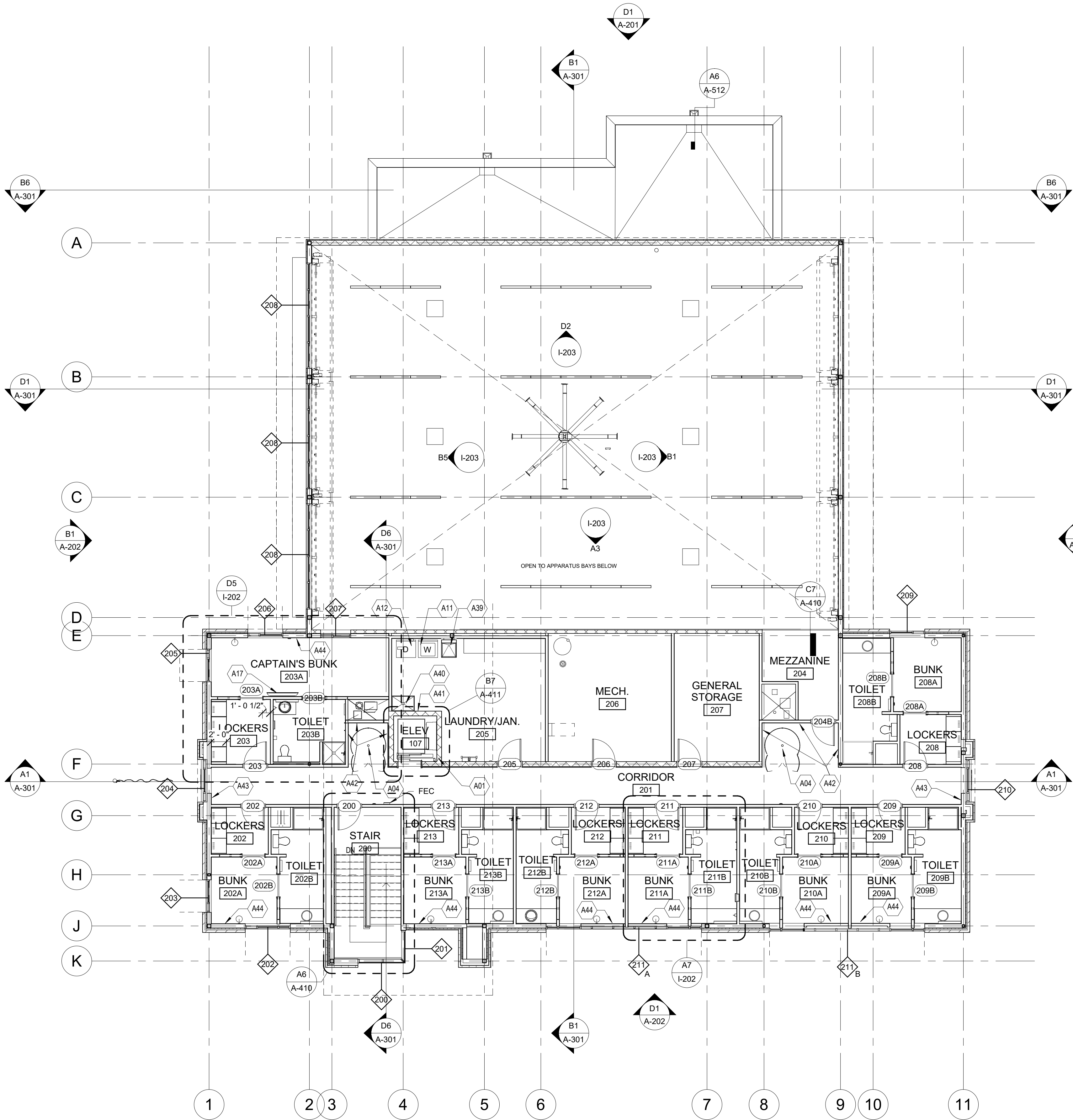
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FIRST FLOOR PLAN

A-101

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

ARCH NOTES

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FLOOR PLAN KEYNOTES.

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A12	HEAVY-DUTY RESIDENTIAL DRYER, OFCI
A17	WALL-MOUNTED TV, OFOI. BLOCKING AND TV BRACKET, CFCI
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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FIRE STATION #4
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SECOND FLOOR PLAN

A-102

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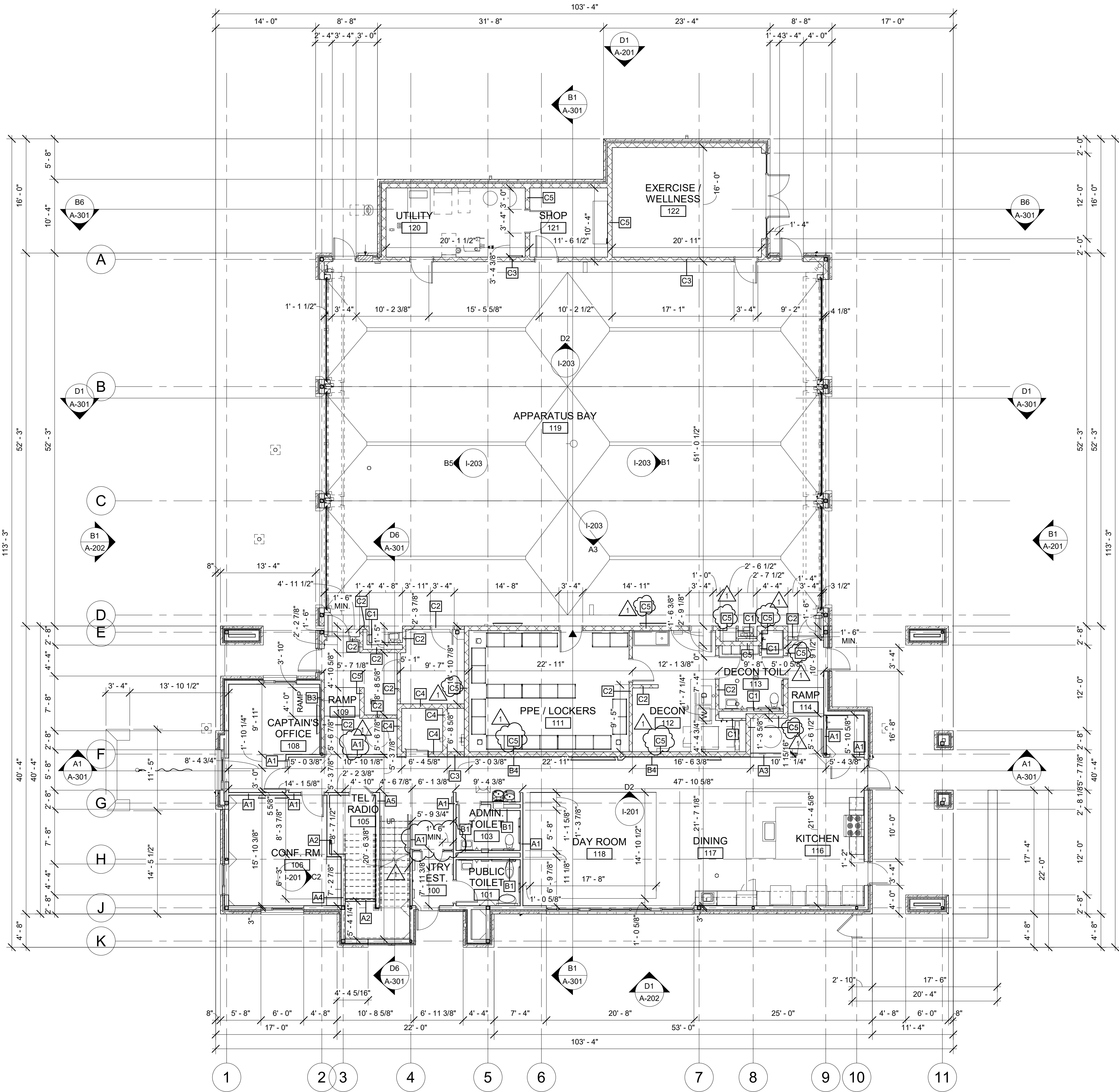
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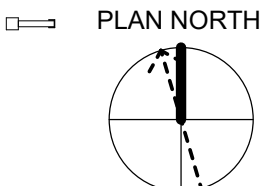
C

B

A



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



ARCH NOTES

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MO# A-2009021701

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FIRST FLOOR
DIMENSION PLAN

A-103

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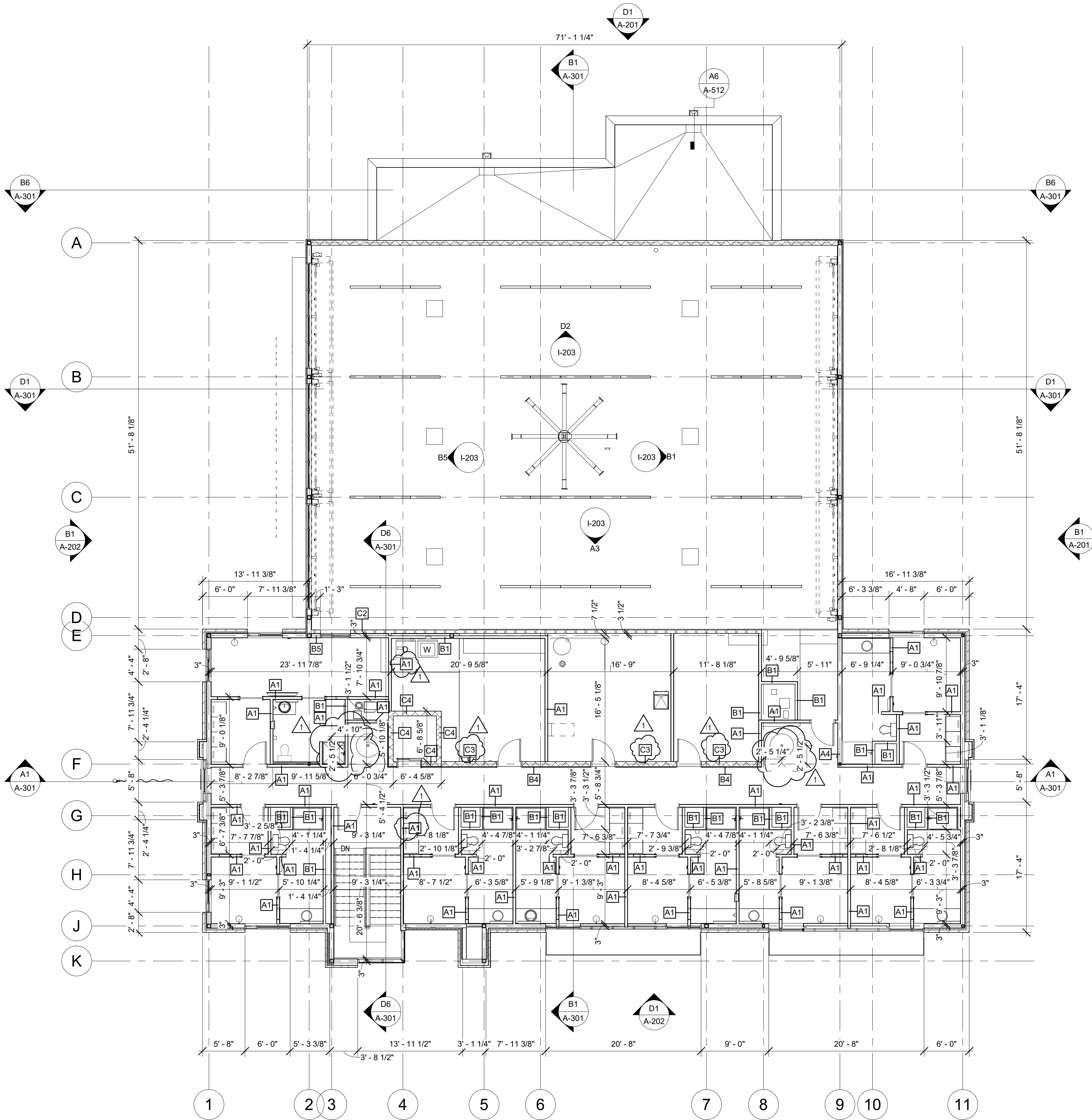
E

D

C

B

A



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



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.).
- 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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LEE'S SUMMIT, MISSOURI 64064

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SECOND FLOOR
DIMENSION PLAN

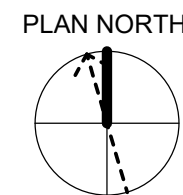
A-104

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A1 LEVEL 1 CEILING PLAN

1/8" = 1'-0"

0 4' 8' 16'

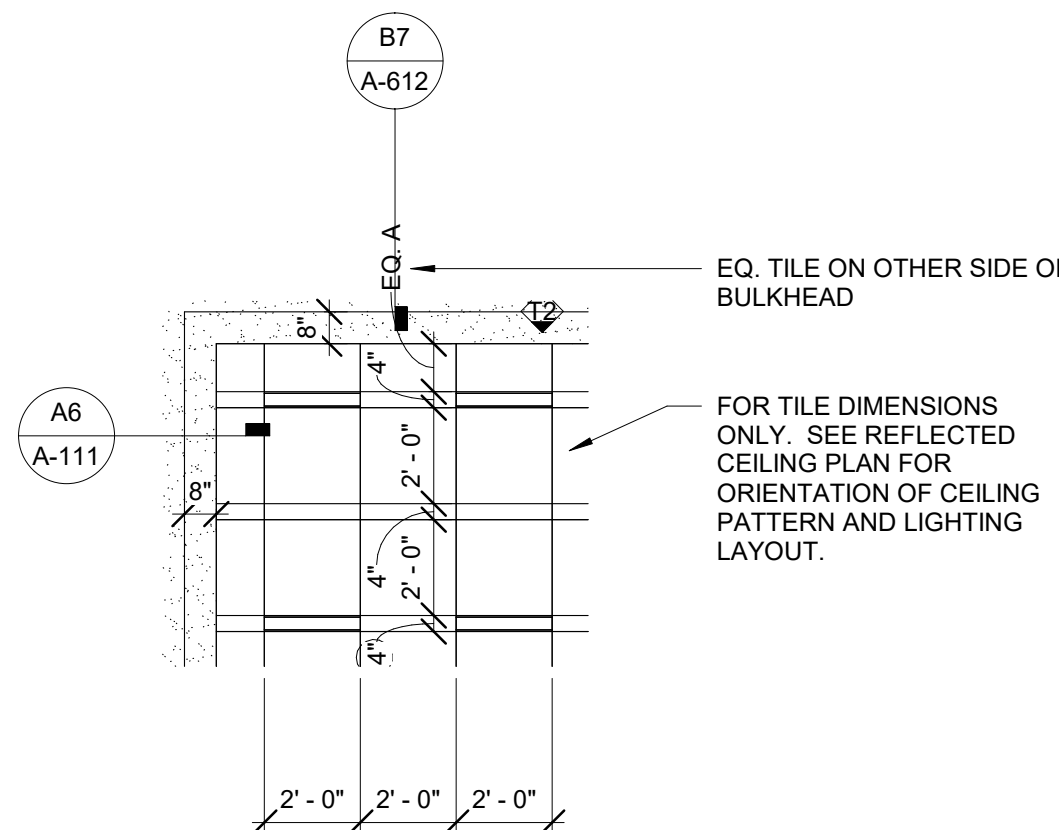


CEILING PLAN LEGEND

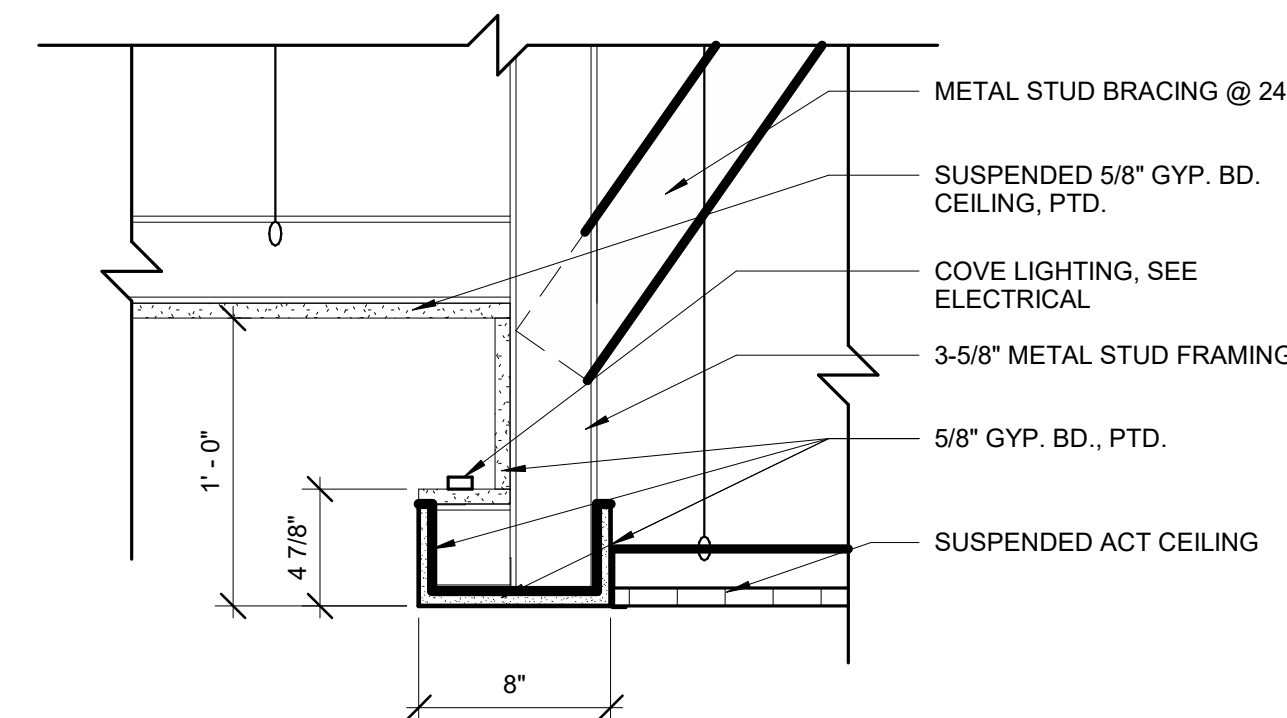
	PLASTER, GYPSUM OR PORTLAND CEMENT		LIGHT FIXTURE, RECESSED FLUORESCENT A (2x4)
	TILE, ACOUSTICAL CEILING		LIGHT FIXTURE, RECESSED FLUORESCENT B (1x4)
	SHEET METAL		LIGHT FIXTURE, RECESSED FLUORESCENT C (1x8)
	CEILING ELEVATION TAG		LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT A (2x4)
	PENDANT HEAD SPRINKLERS		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-610 FOR CEILING TYPES AND MATERIALS IN EACH ROOM/AREA.
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- 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.
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- 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.



B6 BULKHEAD CEILING DETAIL



A6 BULKHEAD AND COVE DETAIL



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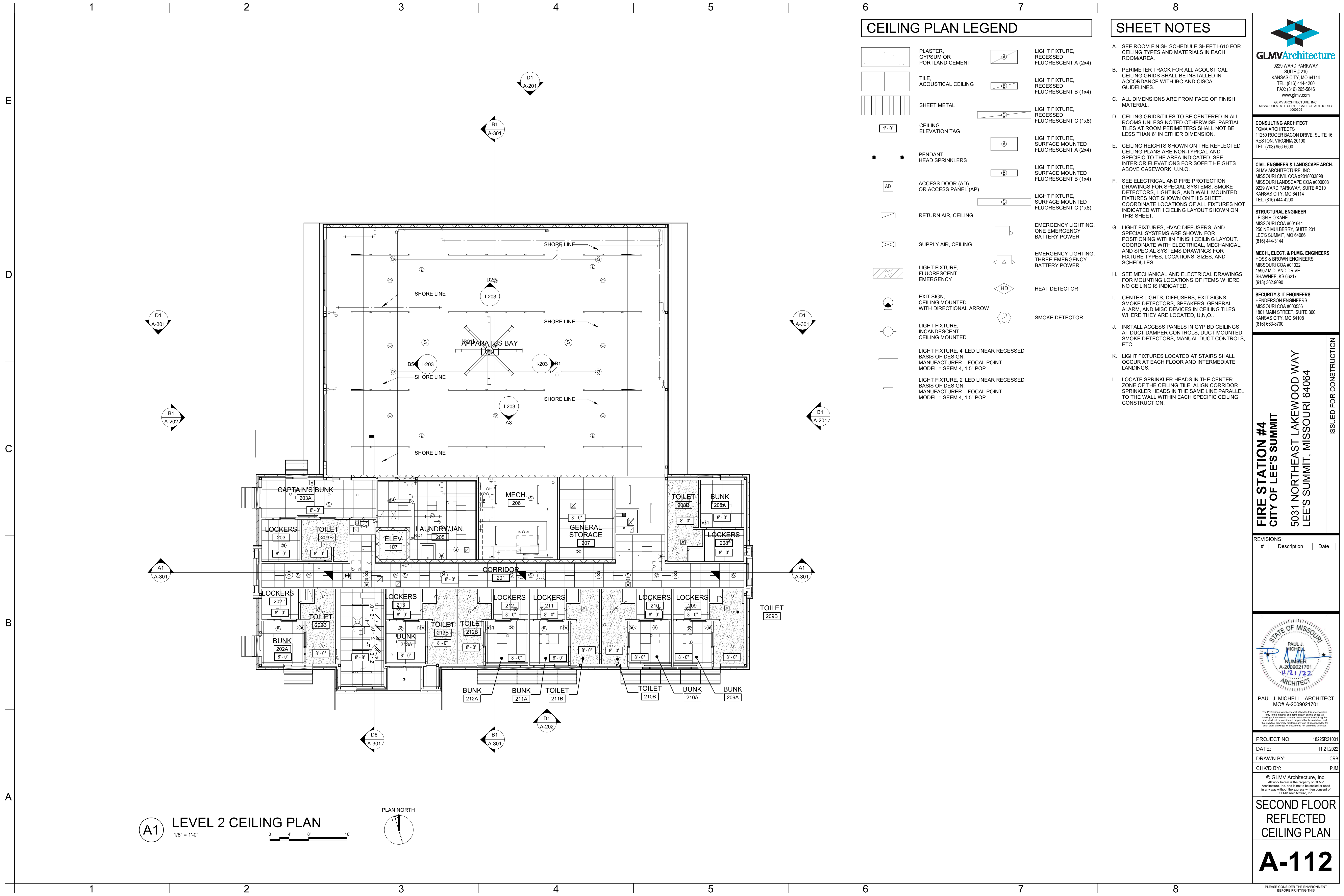
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**FIRST FLOOR
REFLECTED
CEILING PLAN**

A-111

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CEILING PLAN LEGEND

	PLASTER, GYPSUM OR PORTLAND CEMENT		LIGHT FIXTURE, RECESSED FLUORESCENT A (2x4)
	TILE, ACOUSTICAL CEILING		LIGHT FIXTURE, RECESSED FLUORESCENT B (1x4)
	SHEET METAL		LIGHT FIXTURE, RECESSED FLUORESCENT C (1x8)
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SHEET NOTES

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5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

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STATE OF MISSOURI
PAUL J. MICHELL
NUMBER
A-2009021701
11/21/22
ARCHITECT

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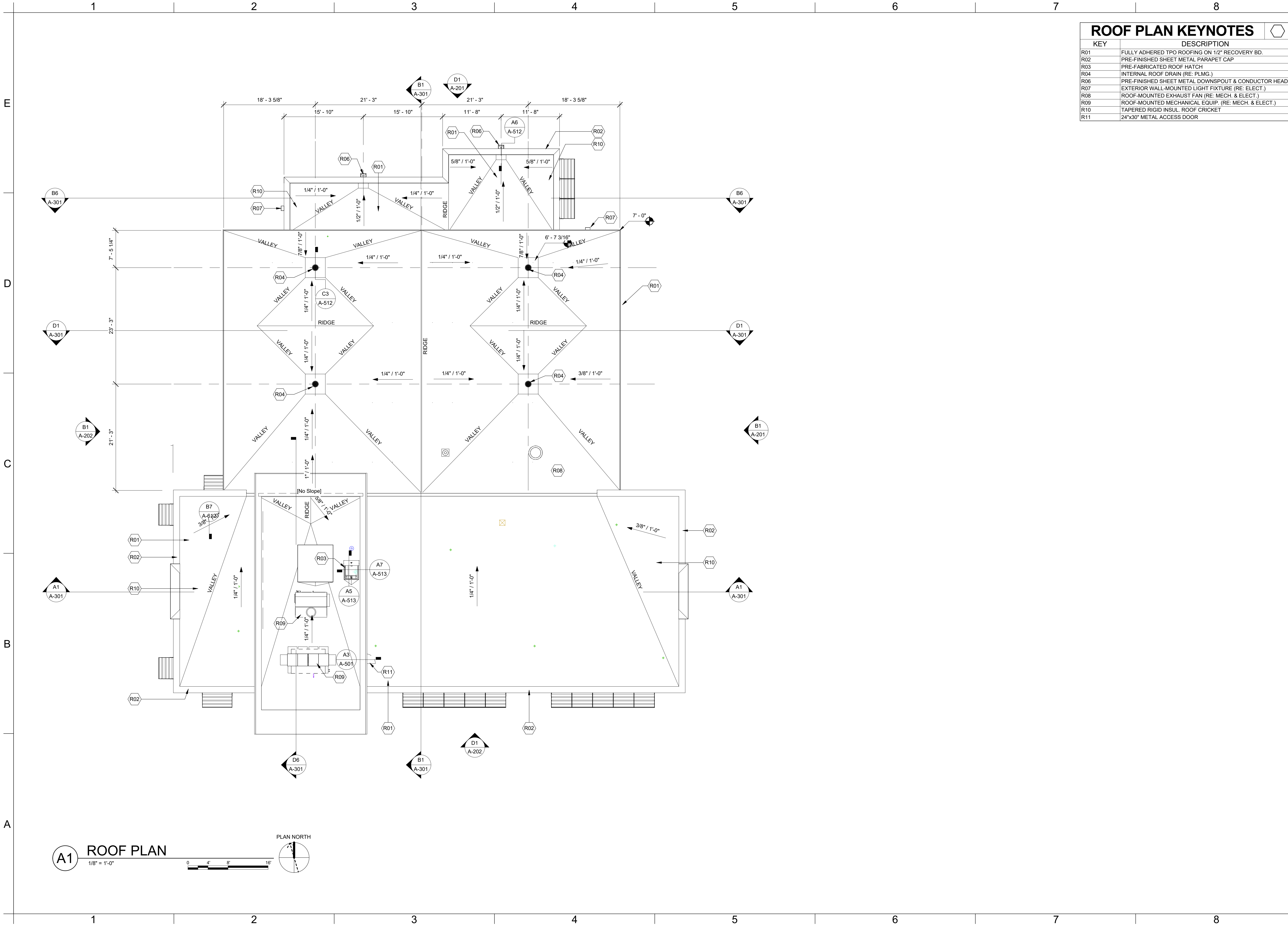
SECOND FLOOR REFLECTED CEILING PLAN

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.)
R06	PRE-FINISHED SHEET METAL DOWNSPOUT & CONDUCTOR HEAD
R07	EXTERIOR WALL-MOUNTED LIGHT FIXTURE (RE: ELECT.)
R08	ROOF-MOUNTED EXHAUST FAN (RE: MECH. & ELECT.)
R09	ROOF-MOUNTED MECHANICAL EQUIP. (RE: MECH. & ELECT.)
R10	TAPERED RIGID INSUL. ROOF CRICKET
R11	24"x30" METAL ACCESS DOOR



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ROOF PLAN

A-121

E

D

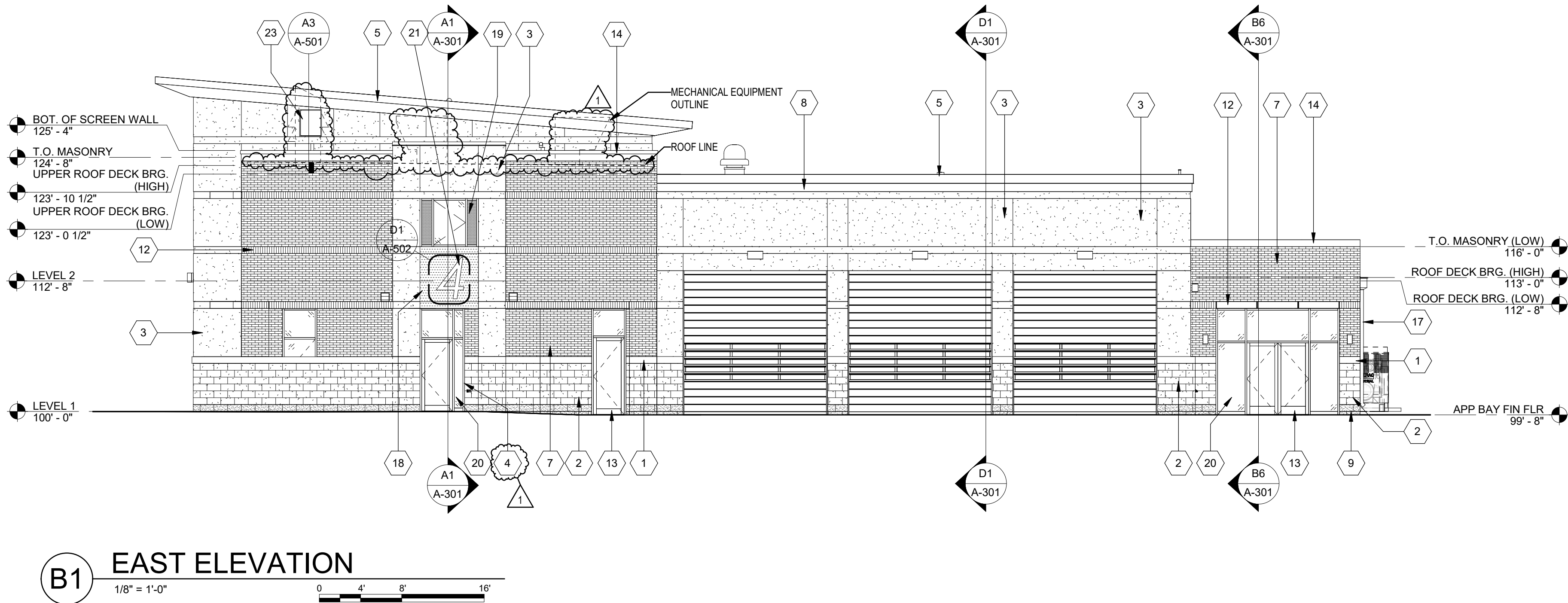
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B

A

12345678

D1 NORTH ELEVATION



B1 EAST ELEVATION

BUILDING ELEVATION...

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

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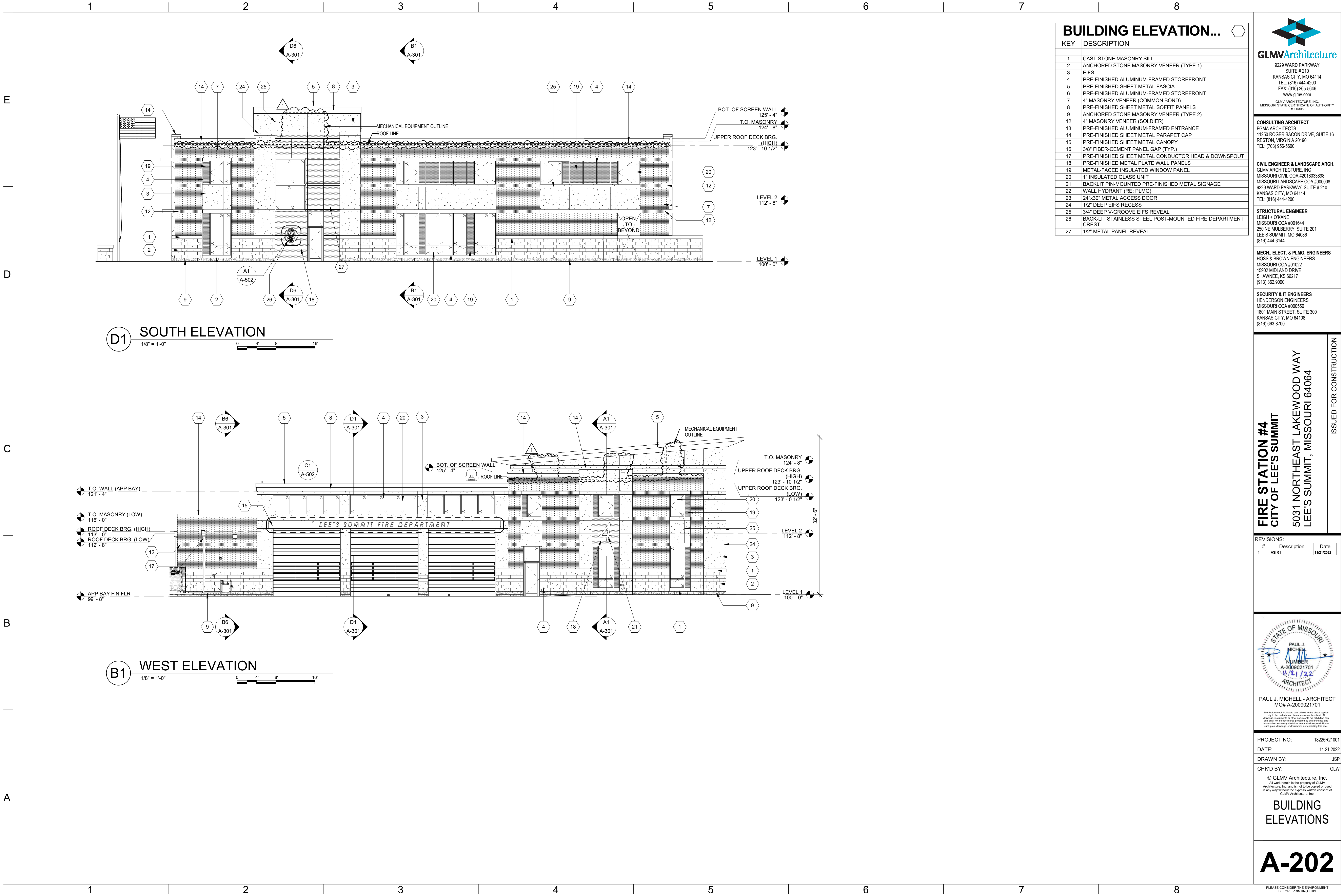
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BUILDING ELEVATIONS

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LEE'S SUMMIT, MISSOURI 64064

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1	ASB 01	11/21/2022



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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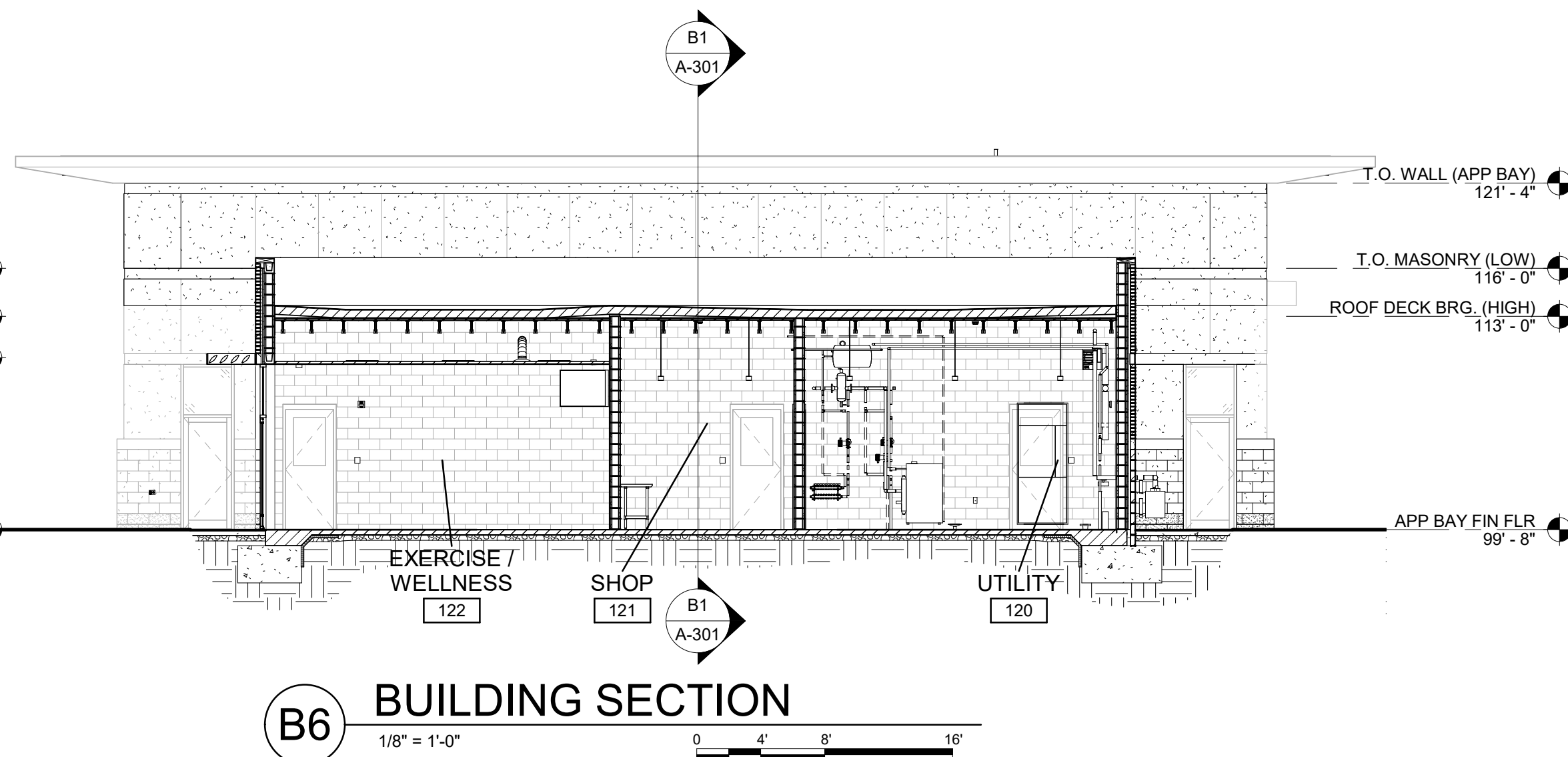
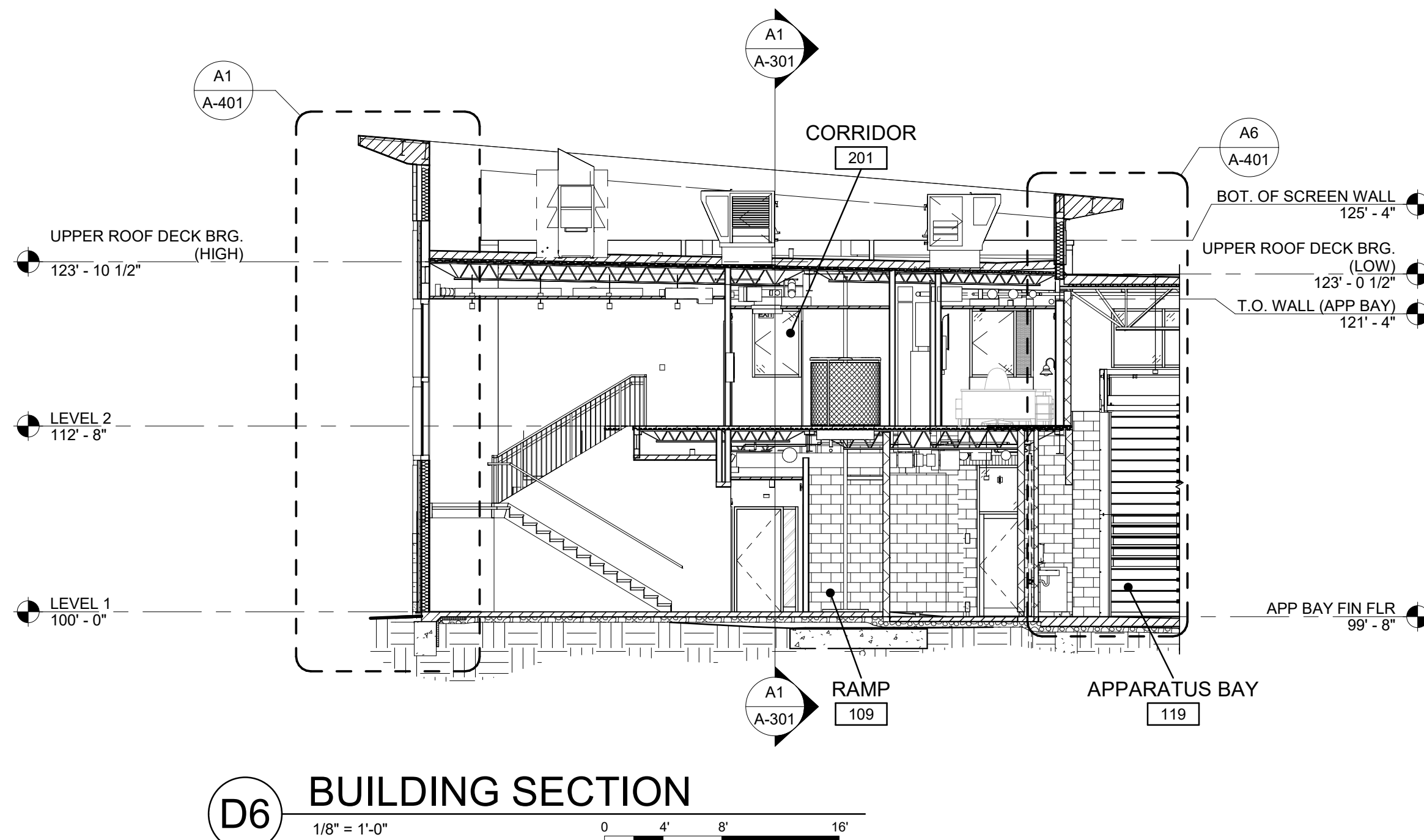
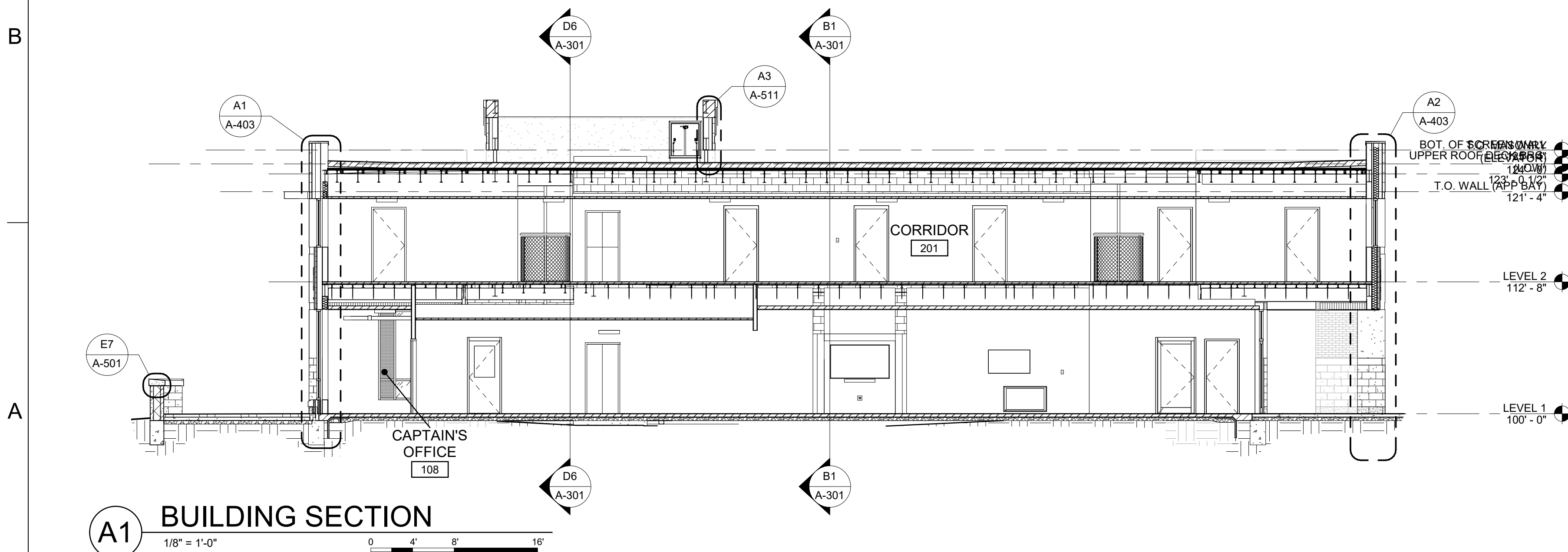
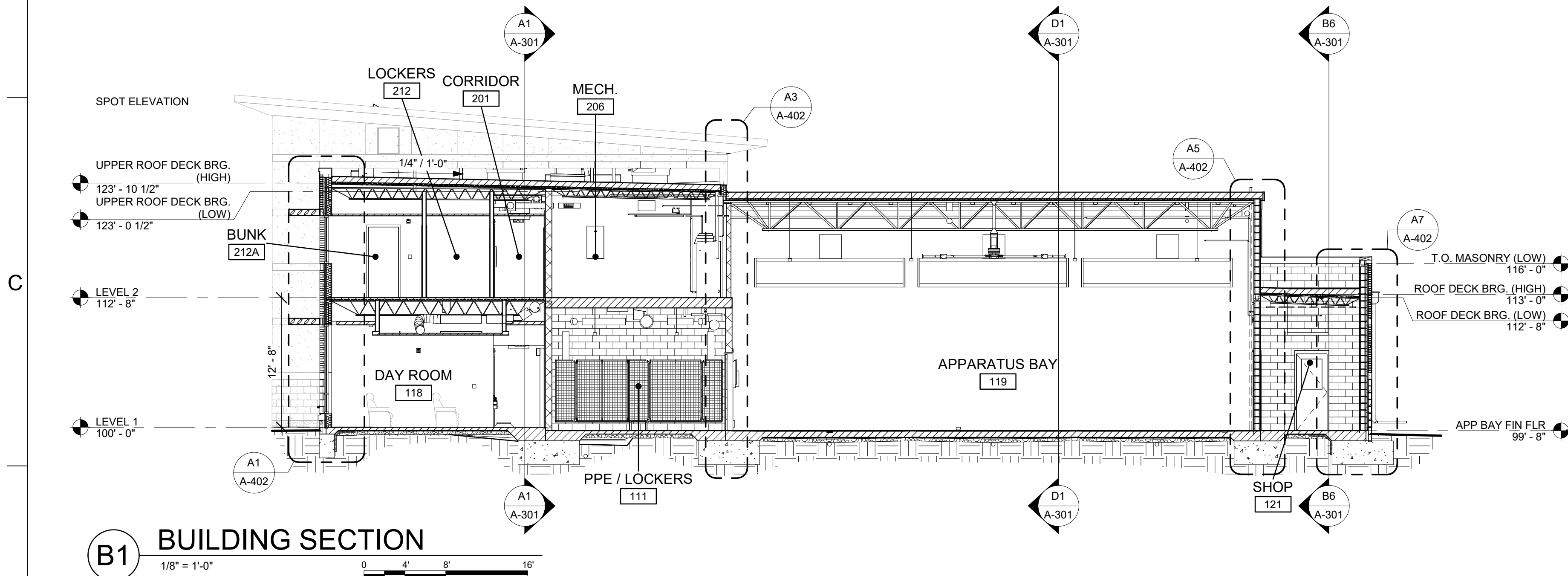
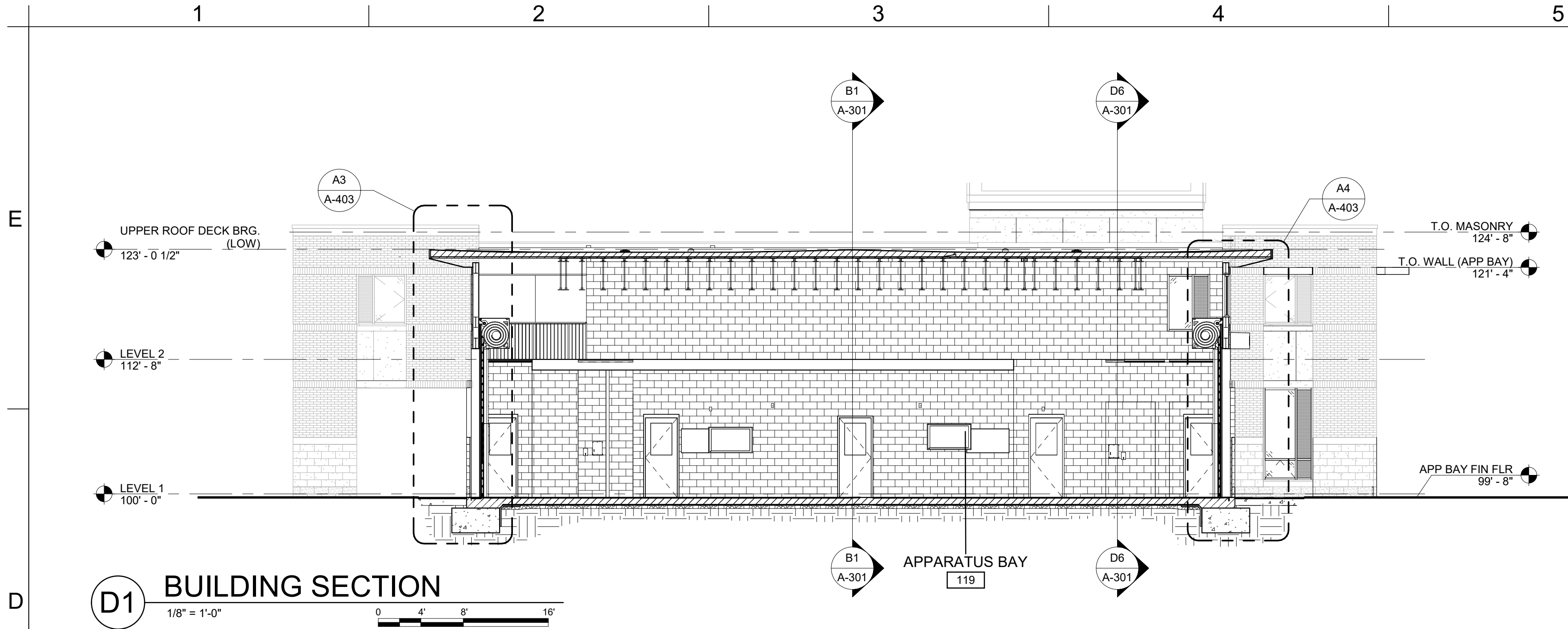
PROJECT NO: 18225R21001
DATE: 11.21.2022
DRAWN BY: JSP
CHK'D BY: GLW

BUILDING ELEVATIONS

A-202

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



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

REVISIONS:

#	Description	Date
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DATE: 11.21.2022
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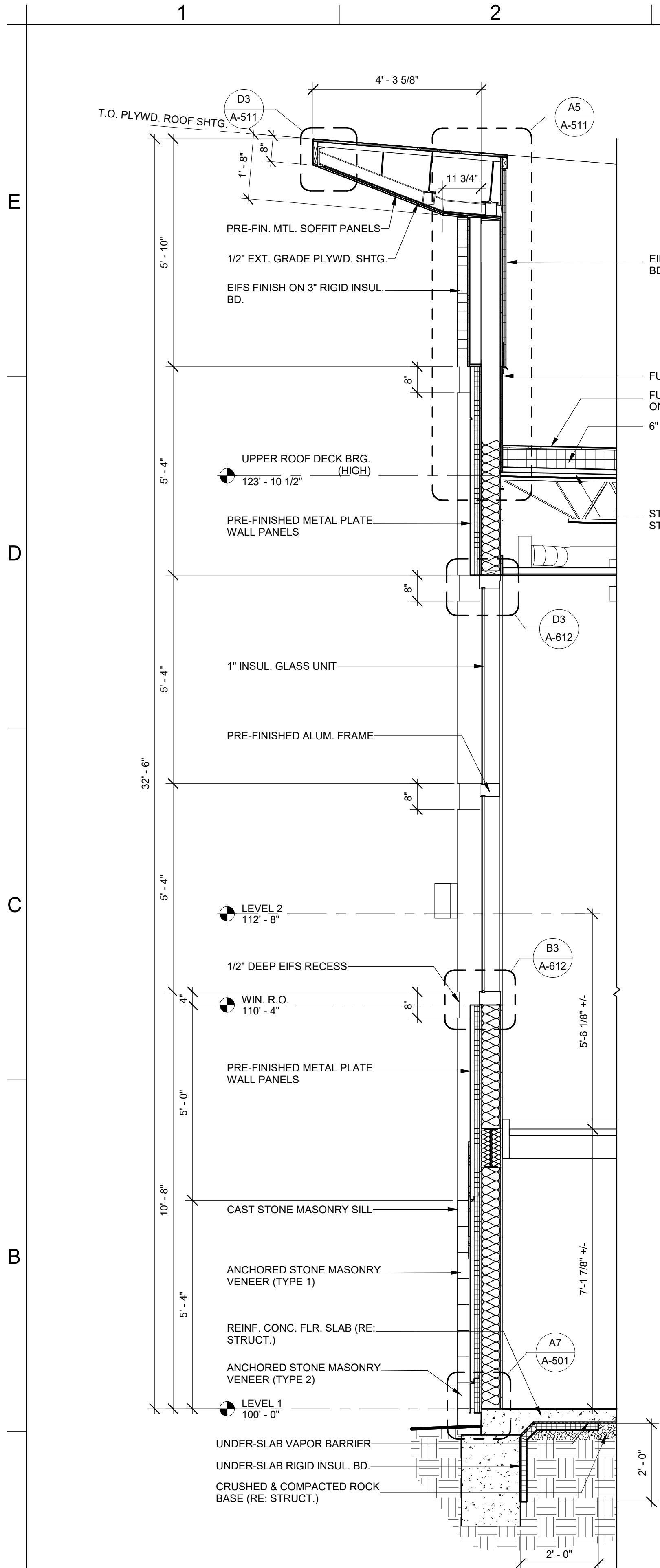
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BUILDING SECTIONS

A-301

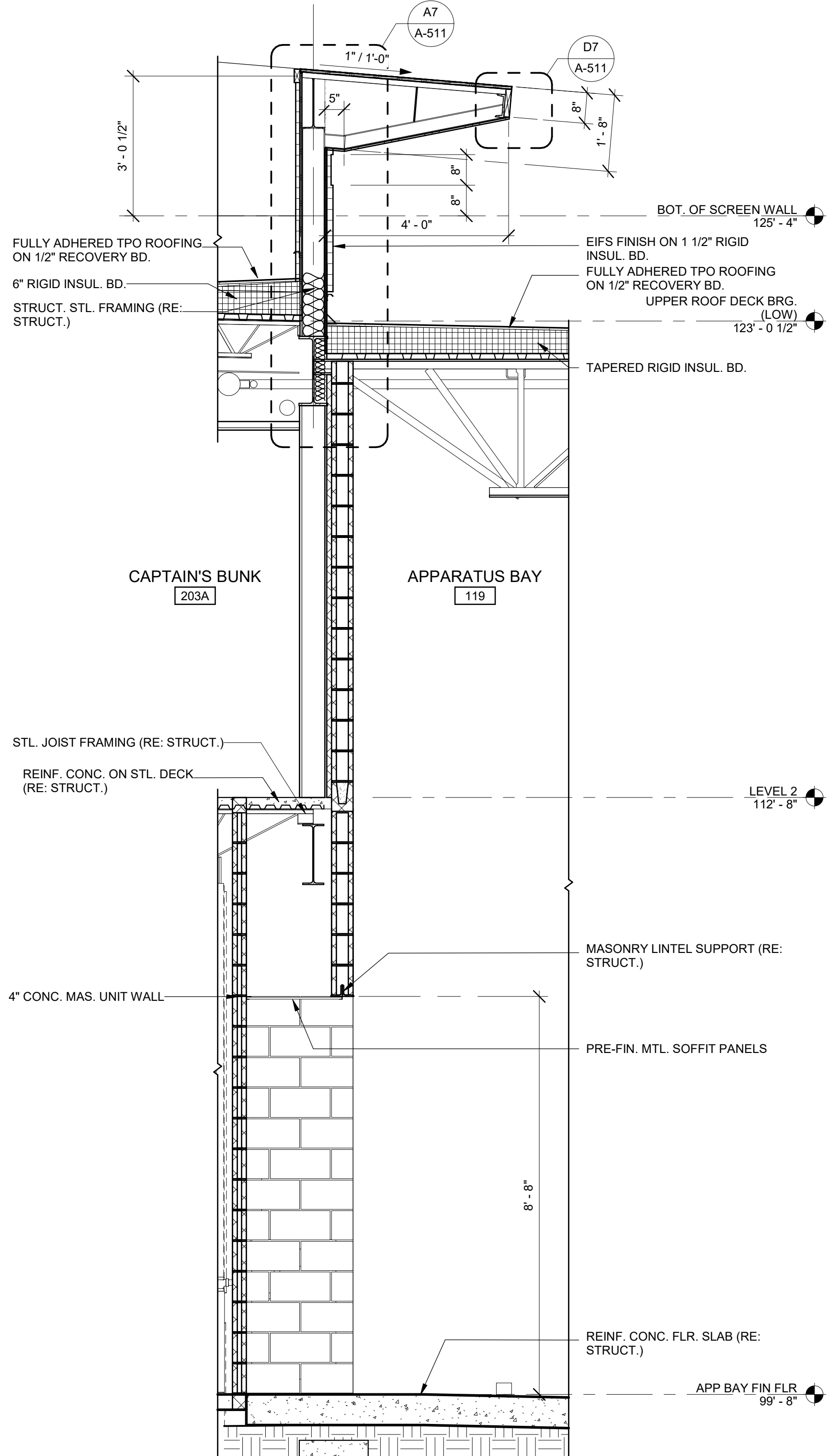
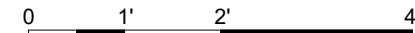
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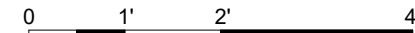
A1 STAIR SECTION

1/2" = 1'-0"



A6 WALL SECTION

1/2" = 1'-0"



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

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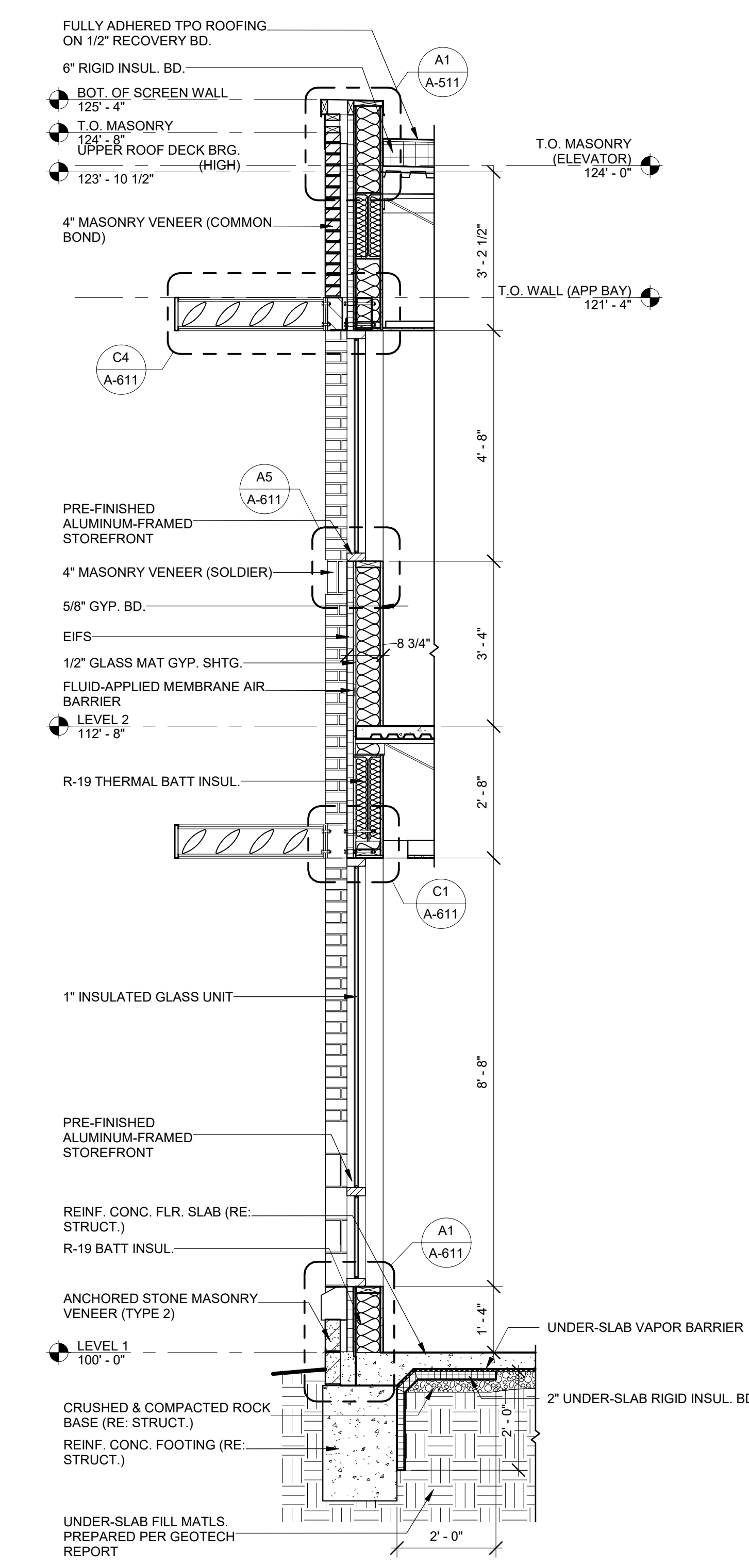
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WALL SECTIONS

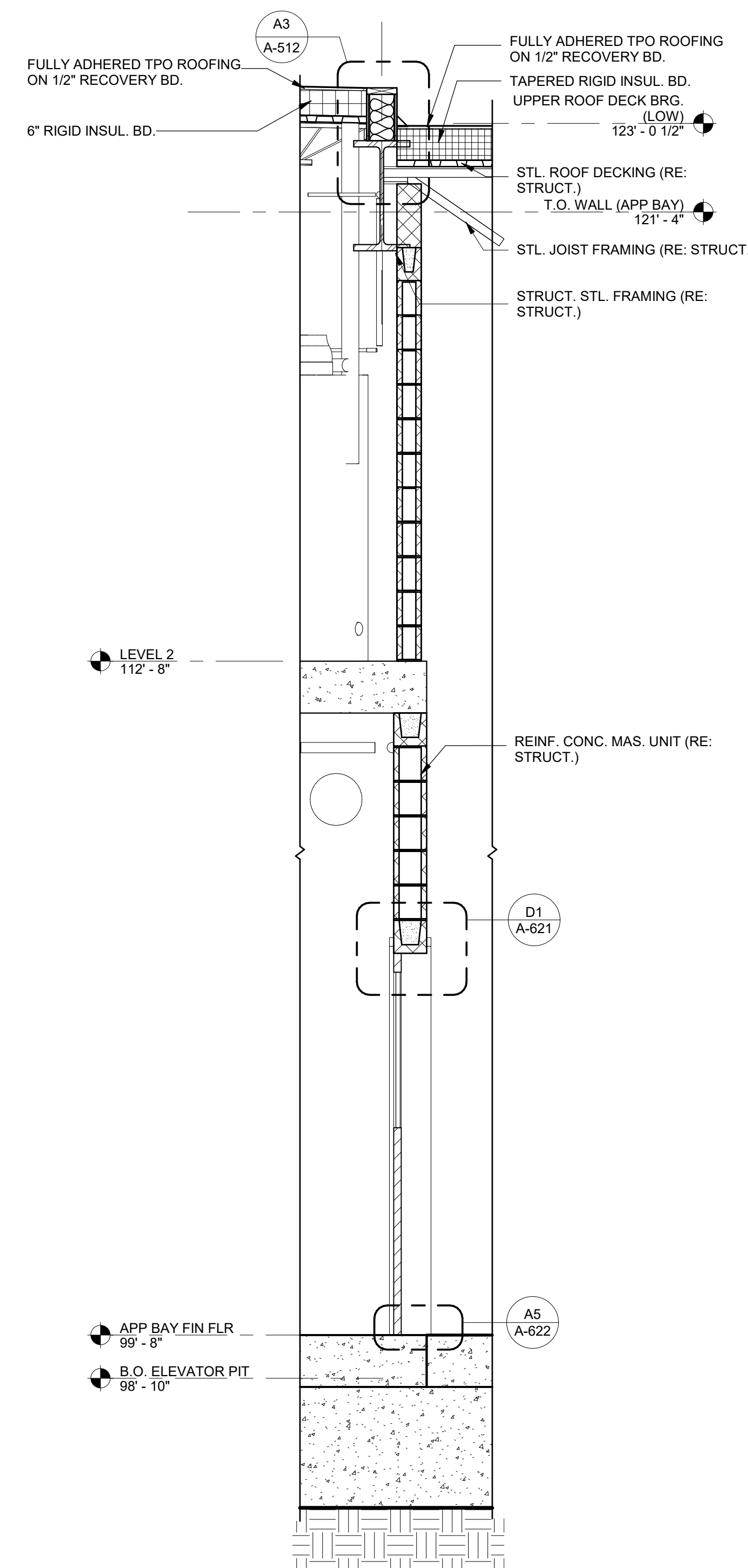
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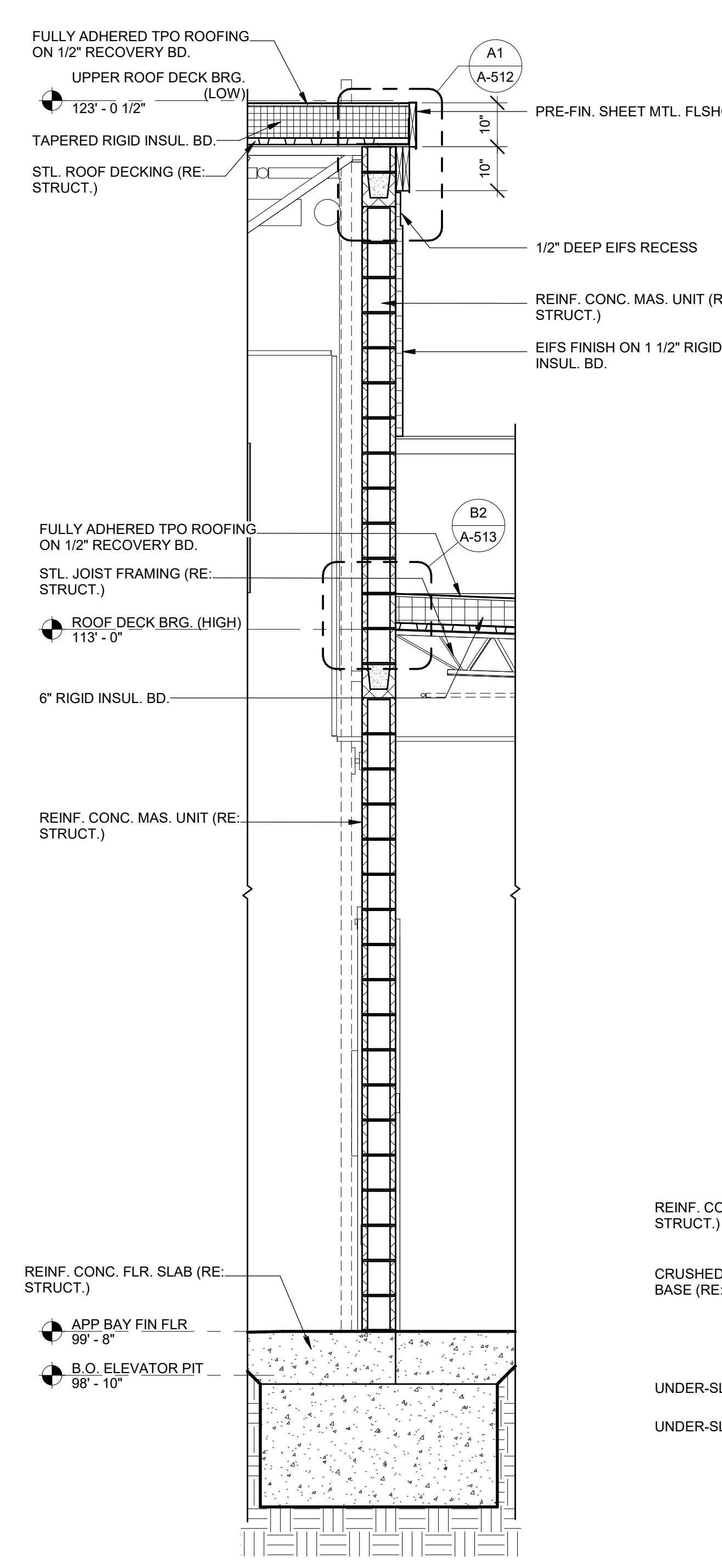
E
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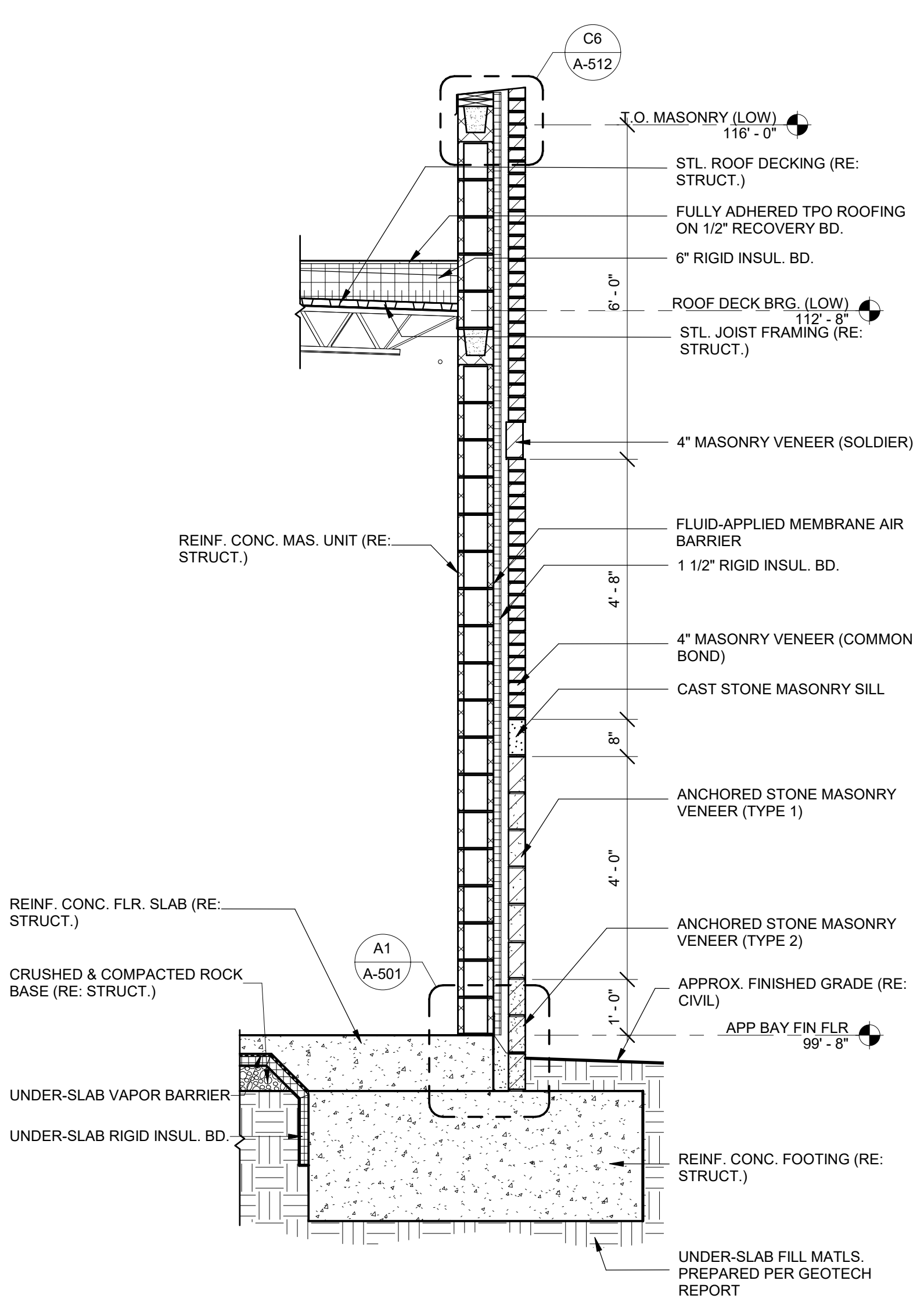
A1 WALL SECTION
1/2" = 1'-0"



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



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



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

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FIRE STATION #4
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#	Description	Date
1	DESCRIPTION	DATE

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WALL SECTIONS

A-402

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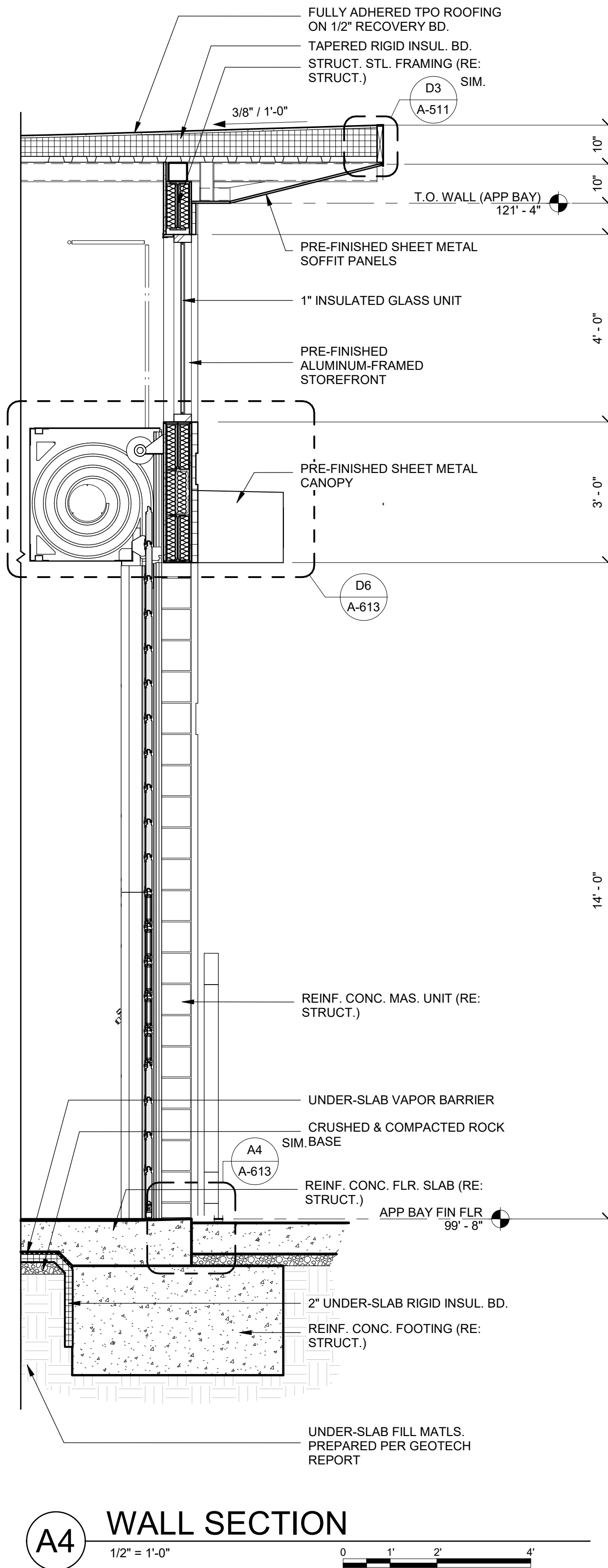
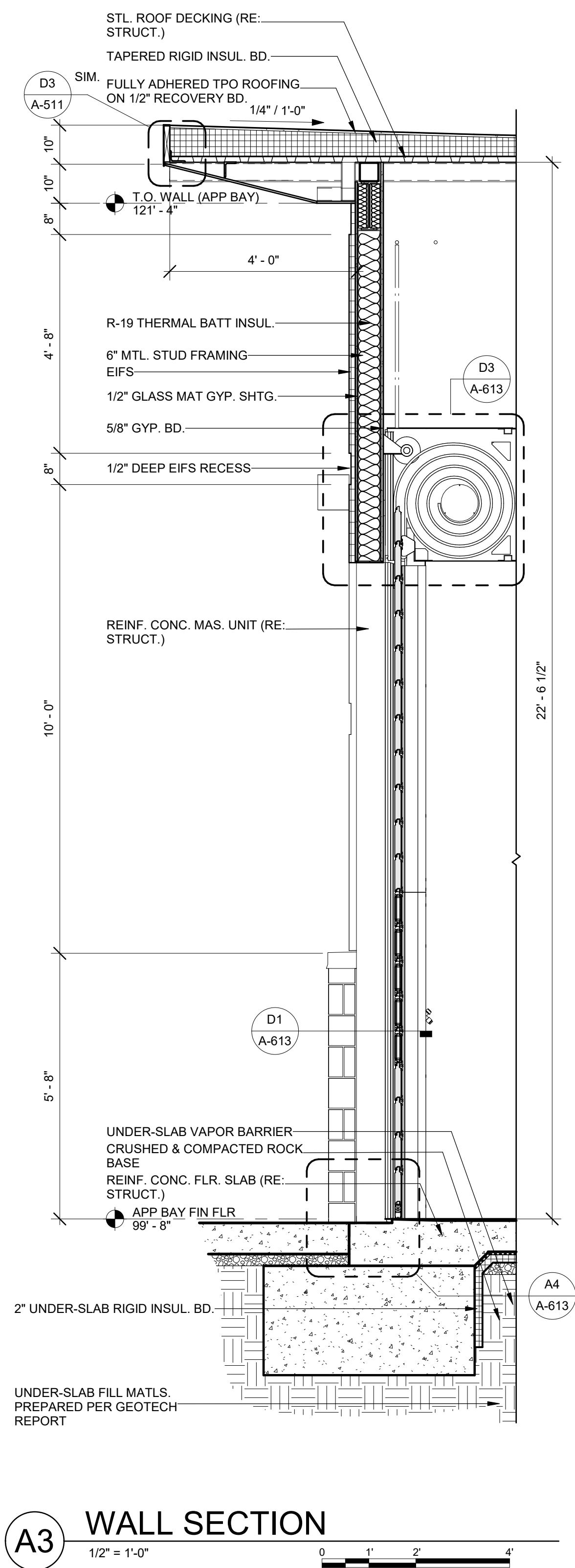
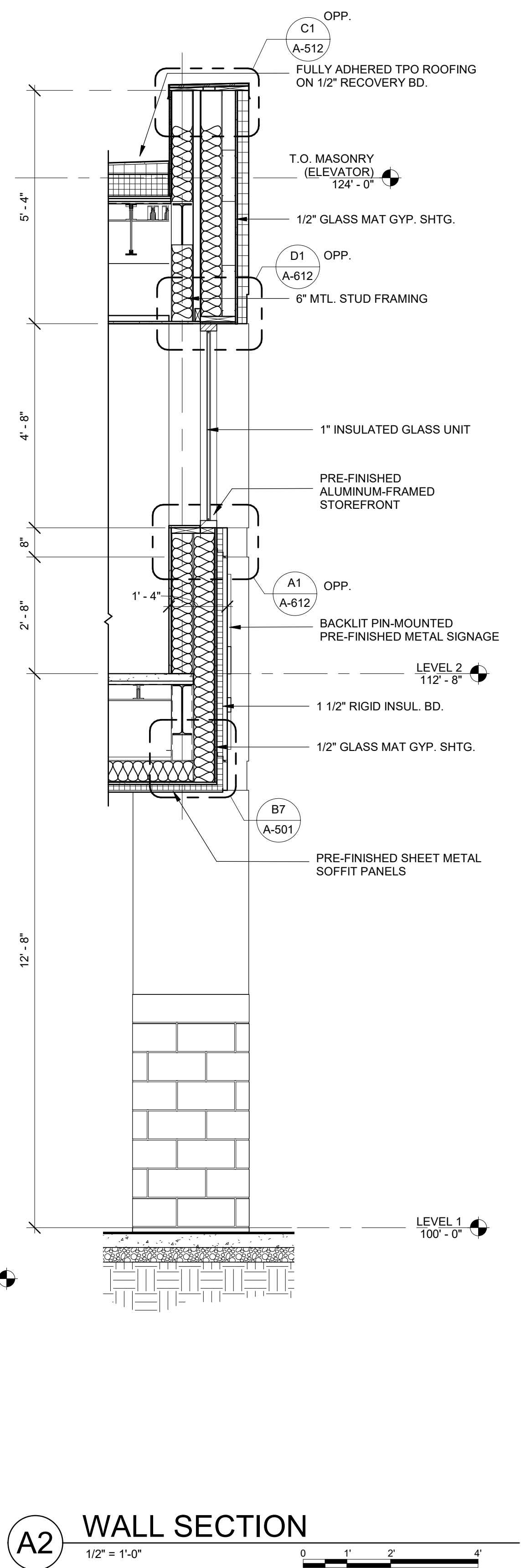
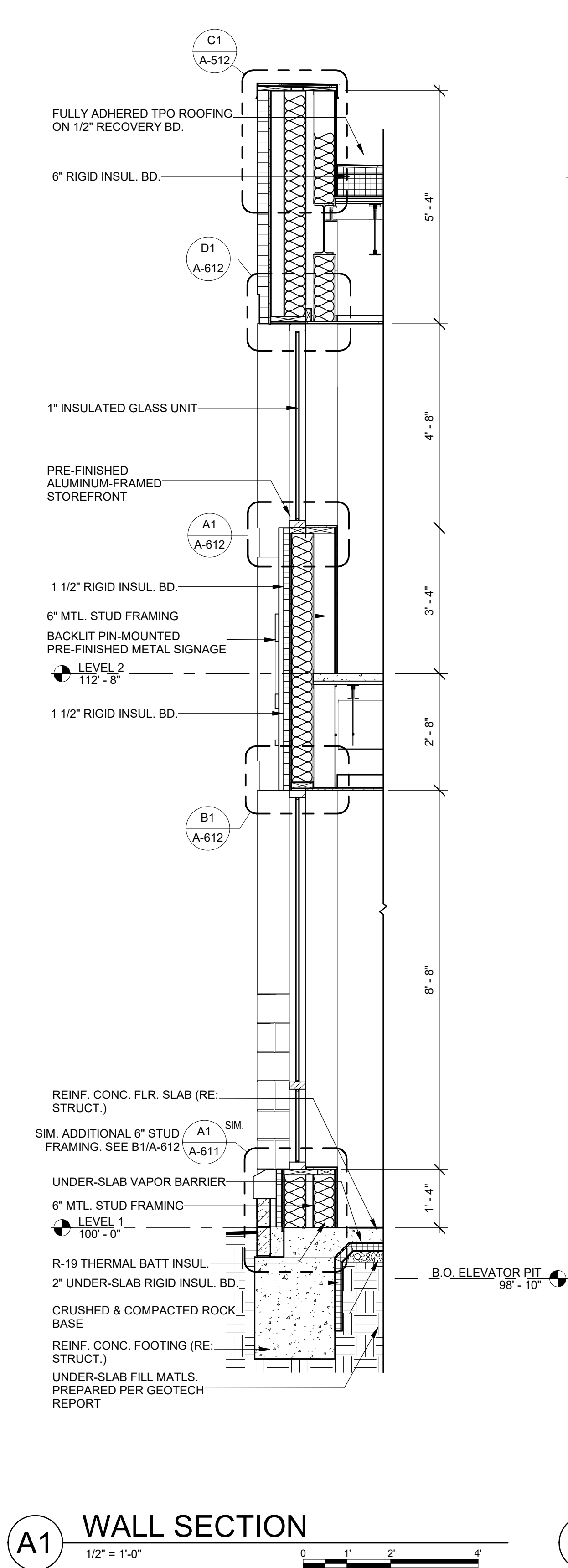
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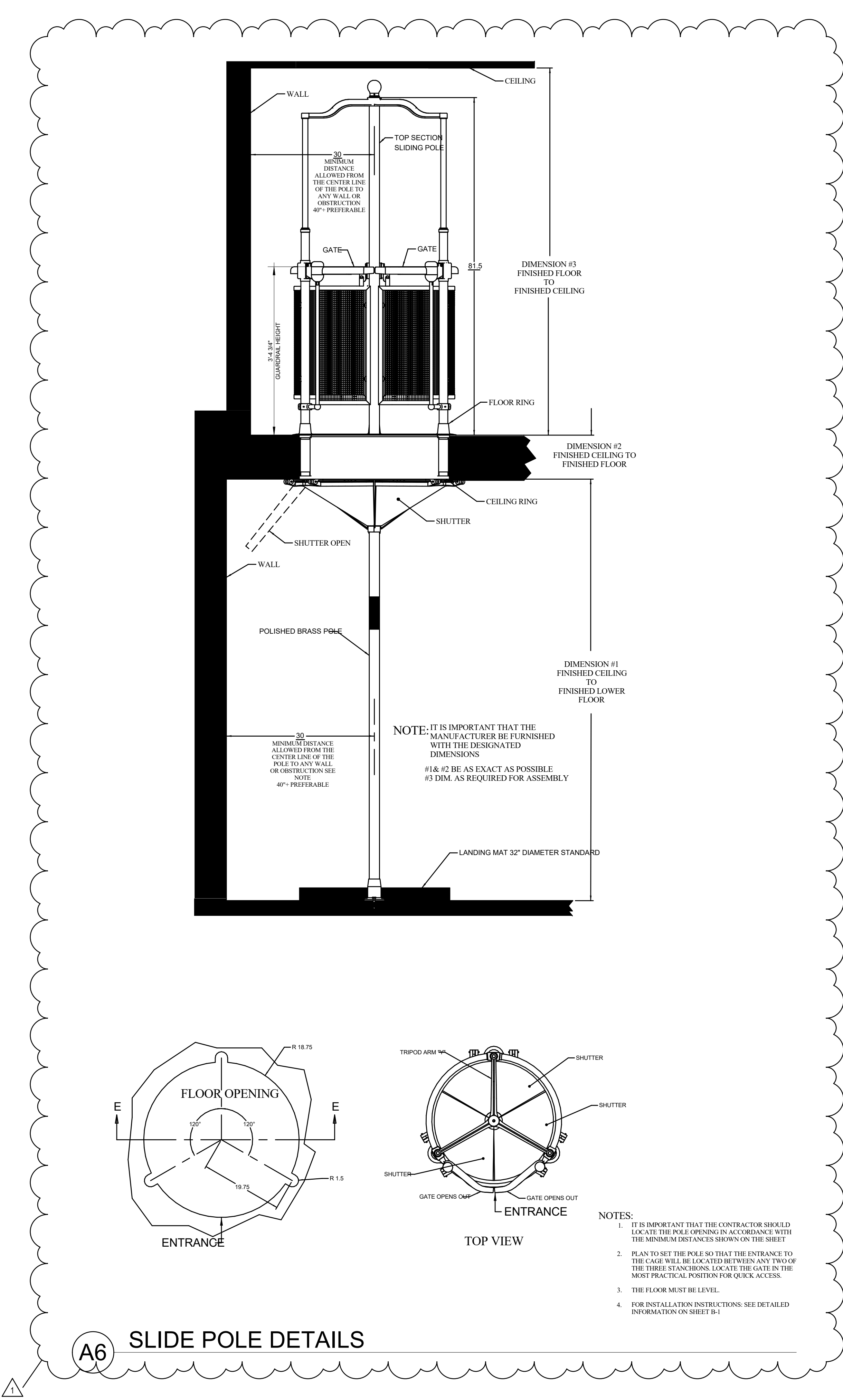
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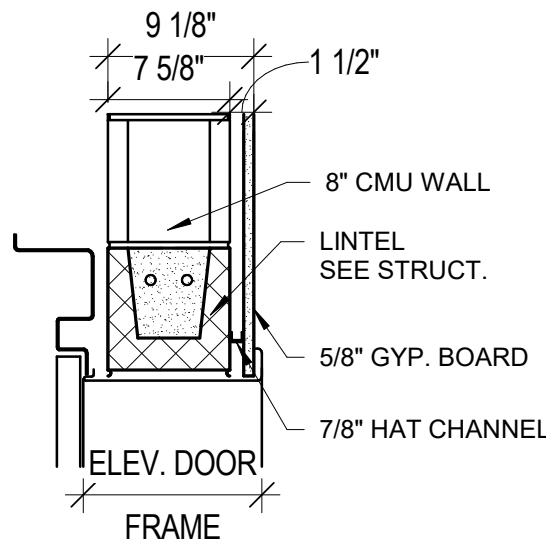
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DATE:	11.21.2022
DRAWN BY:	KSK
CHK'D BY:	PJM

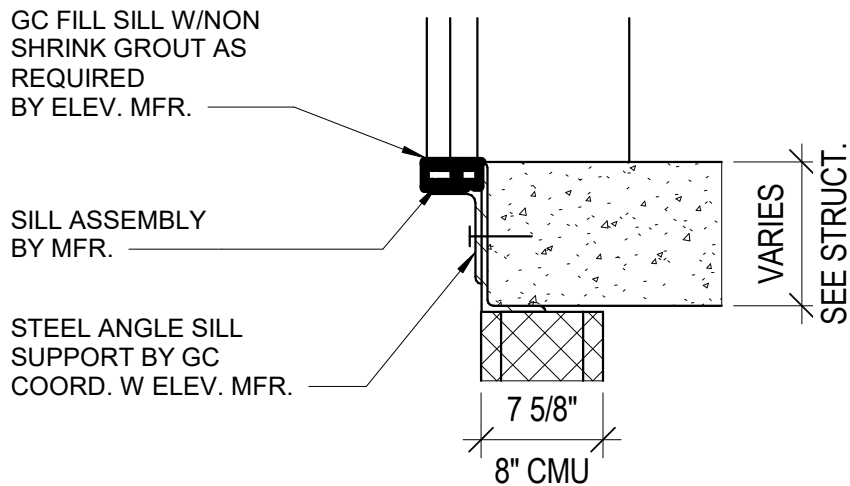
**ENLARGED
ELEVATOR PLAN**

A-411

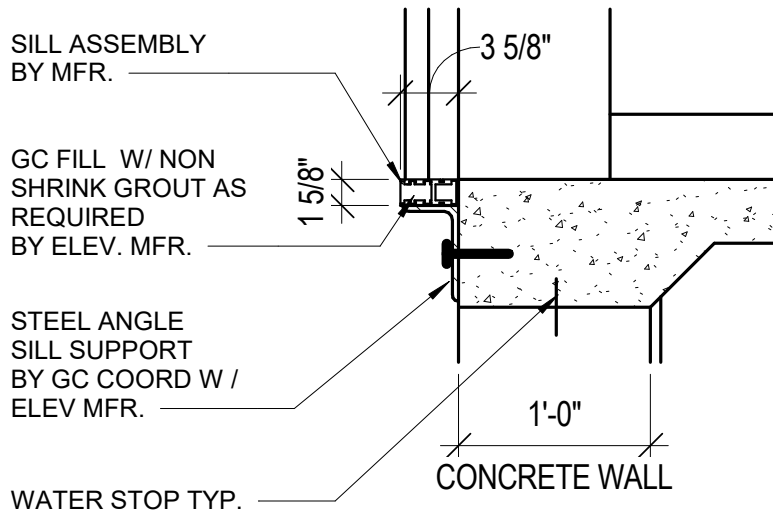
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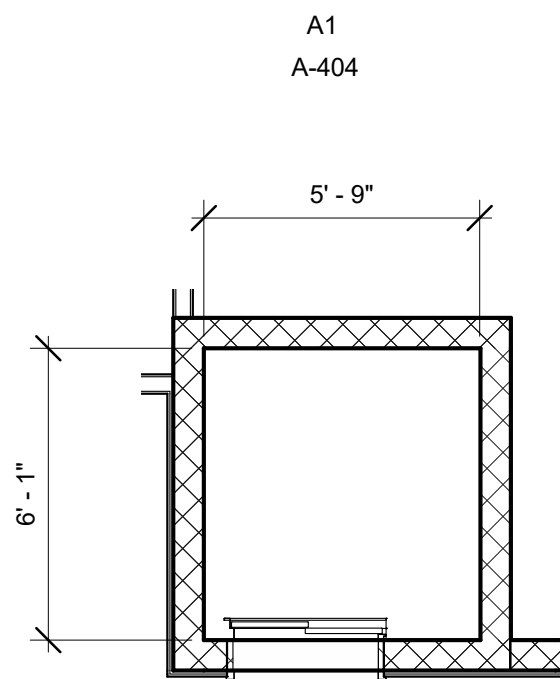
**ELEVATOR DOOR
HEAD - TYP.**



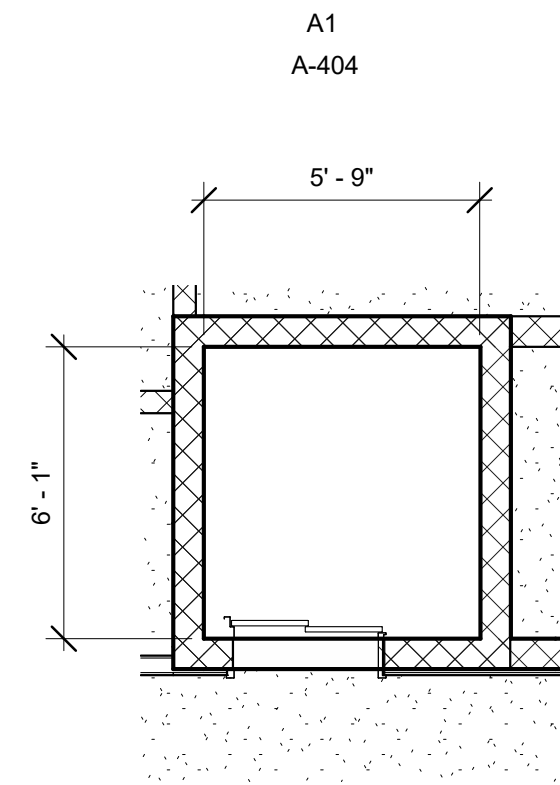
ELEVATOR - DOOR SILL TYP.



**ELEVATOR DOOR SILL
1ST FLOOR**

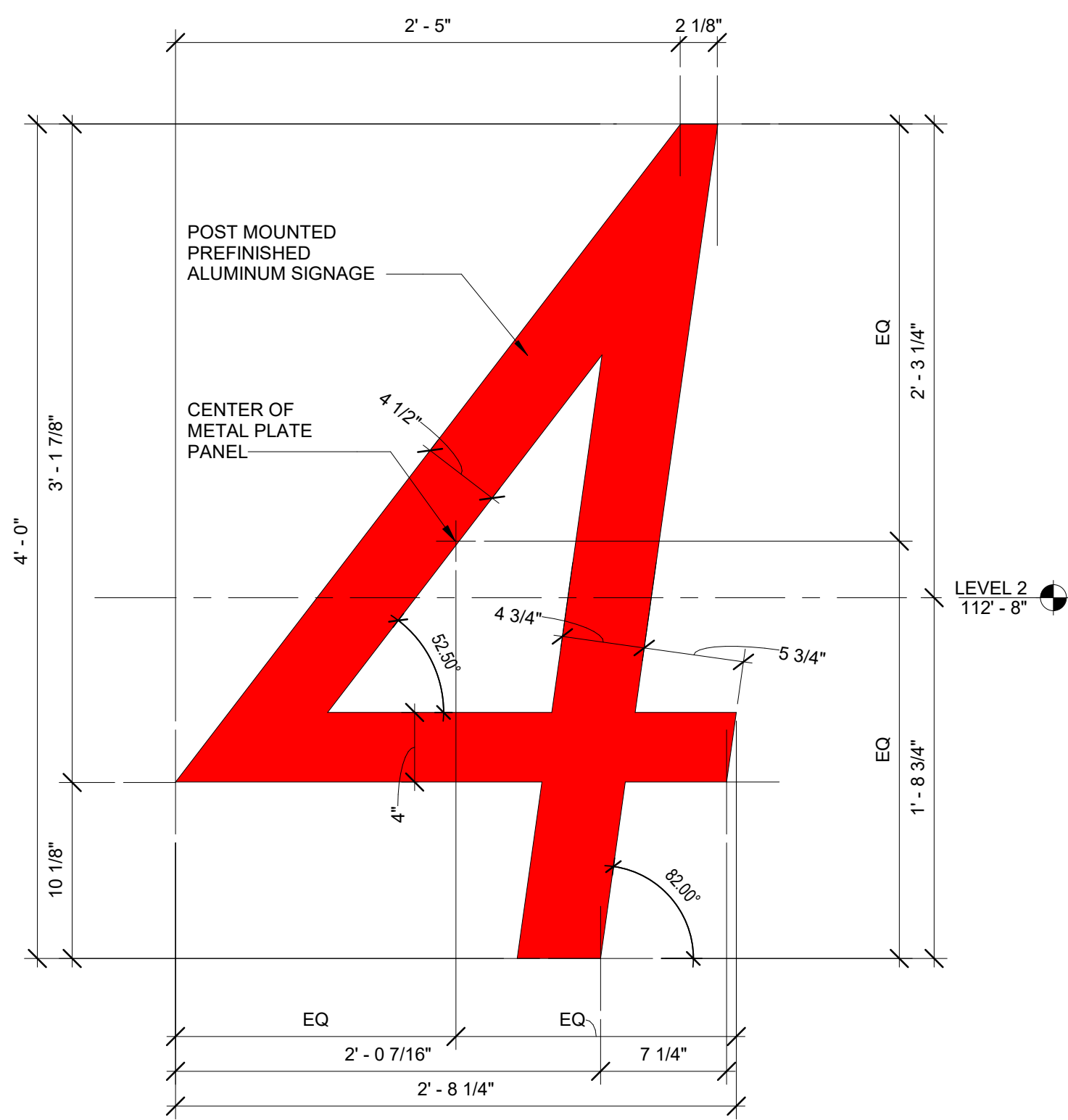


**ENL. ELEVATOR PLAN -
2ND FLOOR**

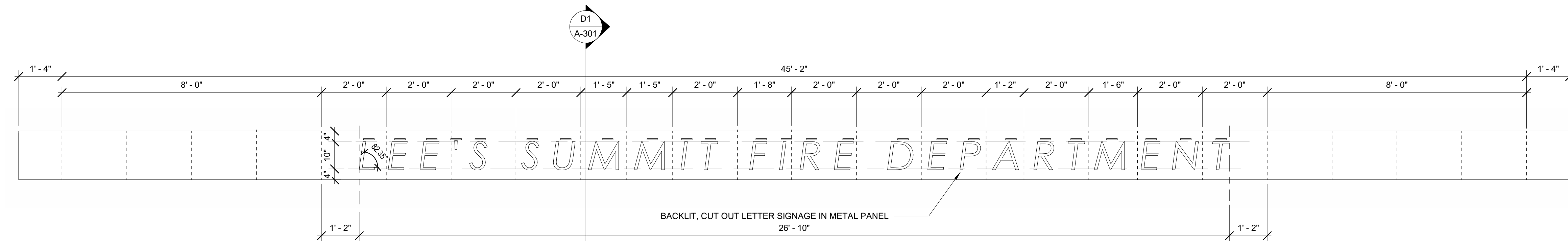


**ENL. ELEVATOR PLAN -
1ST FLOOR**

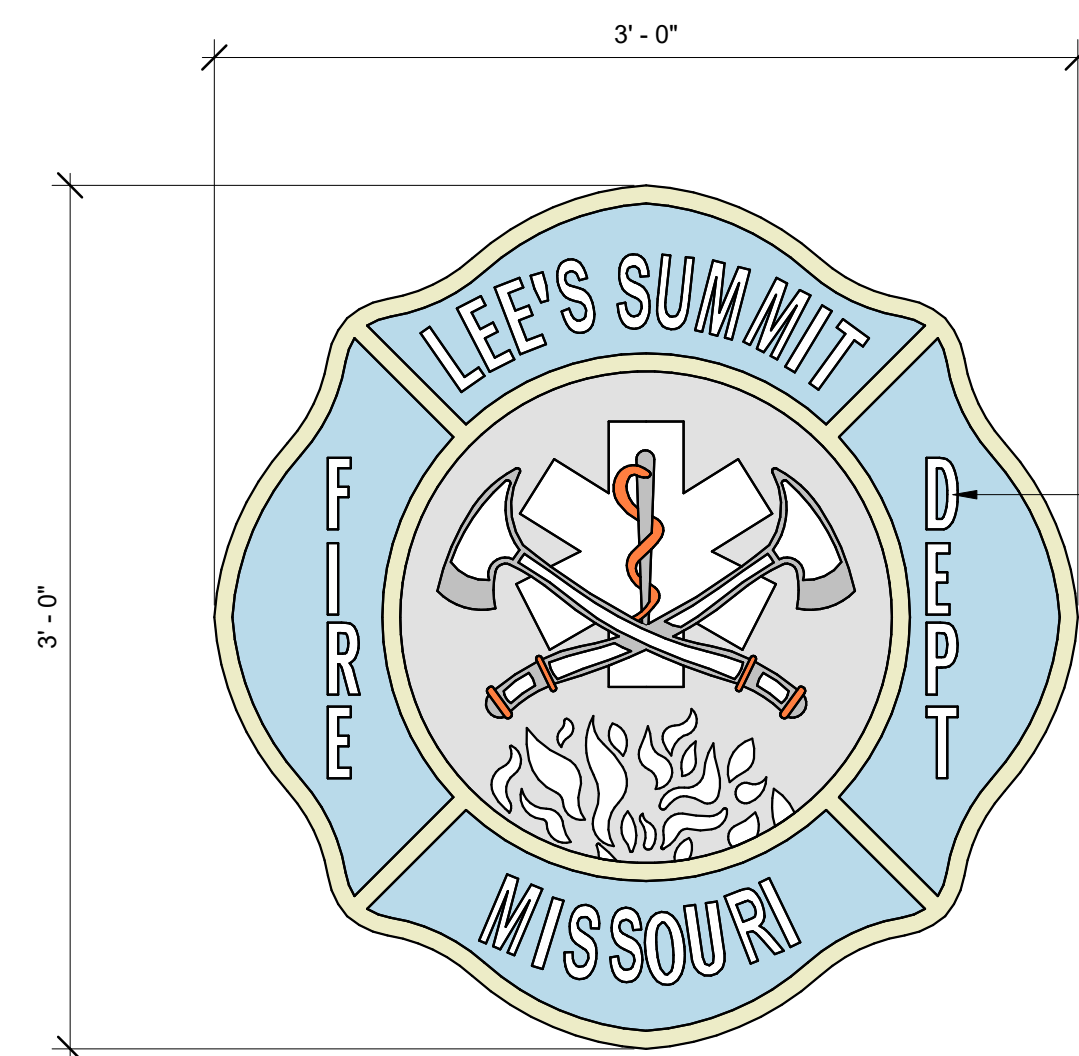




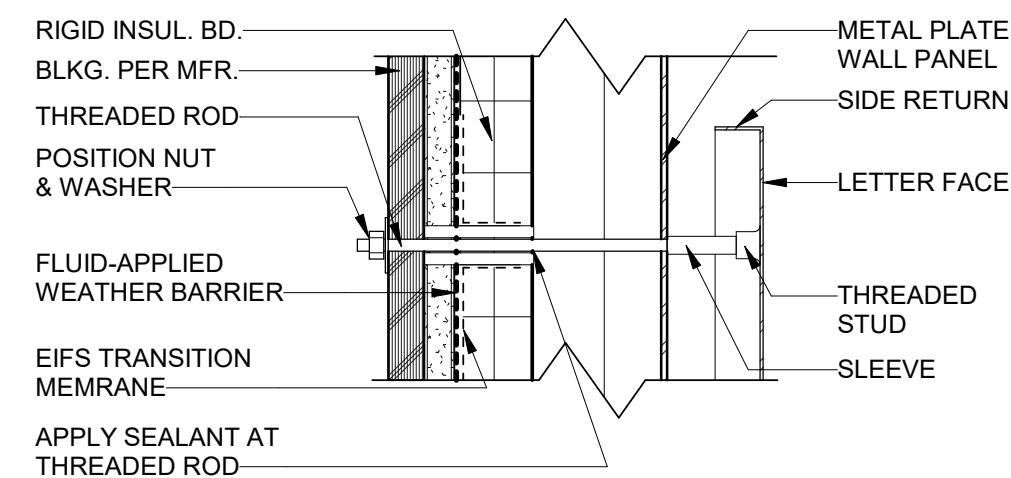
D1 SIGNAGE DETAIL



C1 CANOPY SIGN DETAIL



A1 FIRE DEPARTMENT CREST



4.4 SIGNAGE ATTACHMENT DETAIL



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FIRE STATION #4
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PROJECT NO: 18225R21001

PROJECT NO.	10225R21001
DATE	11/01/2003

DATE: 11.21.2022

DRAWN BY: JSP

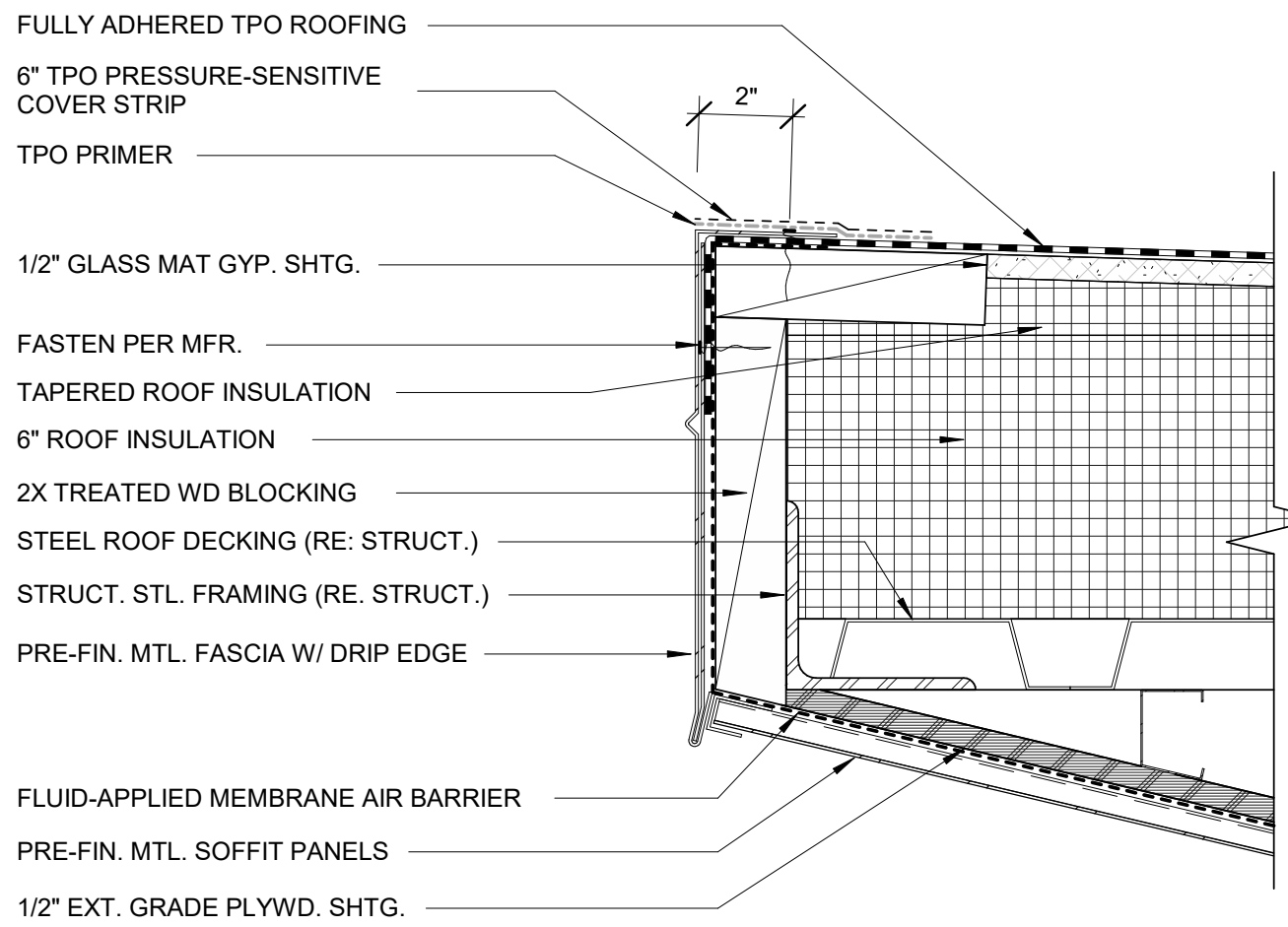
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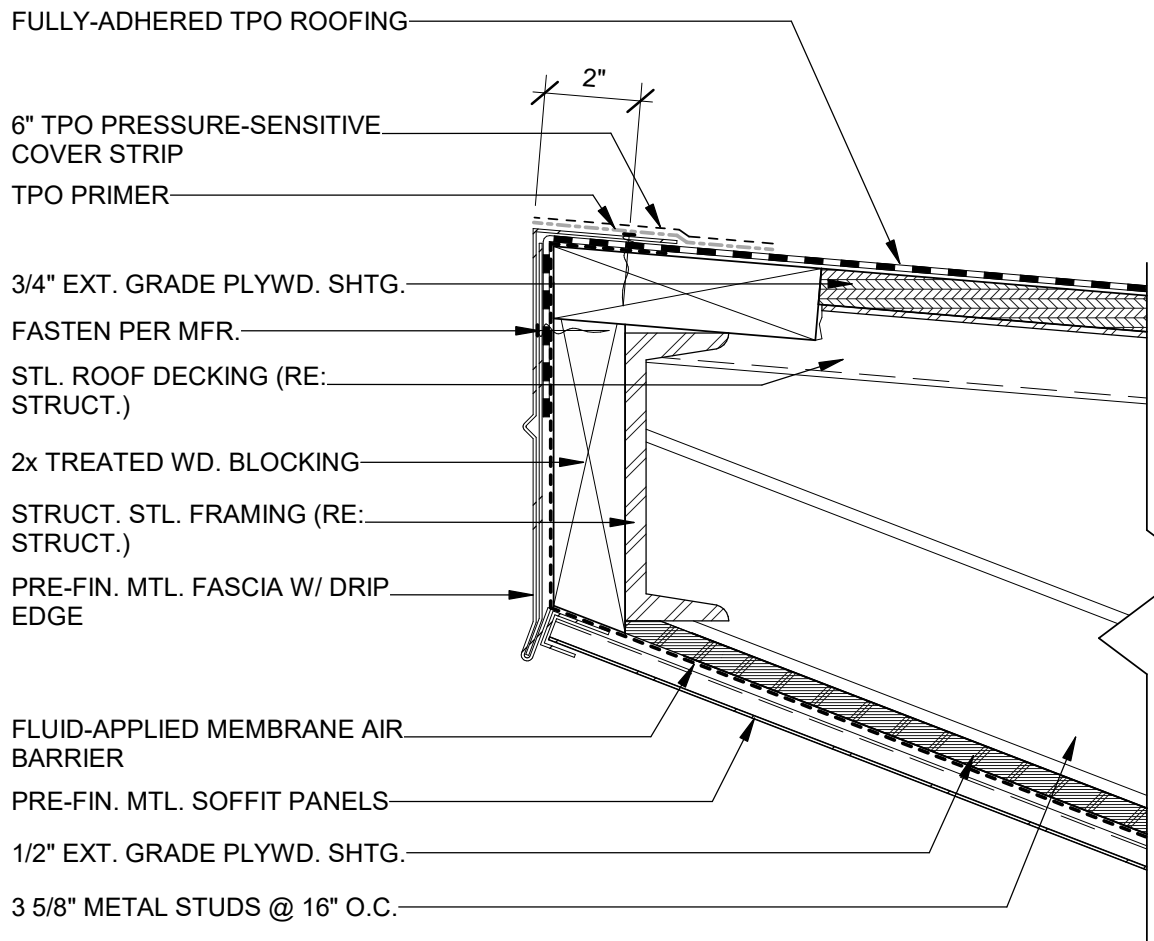
A-502

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E
D
C
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A



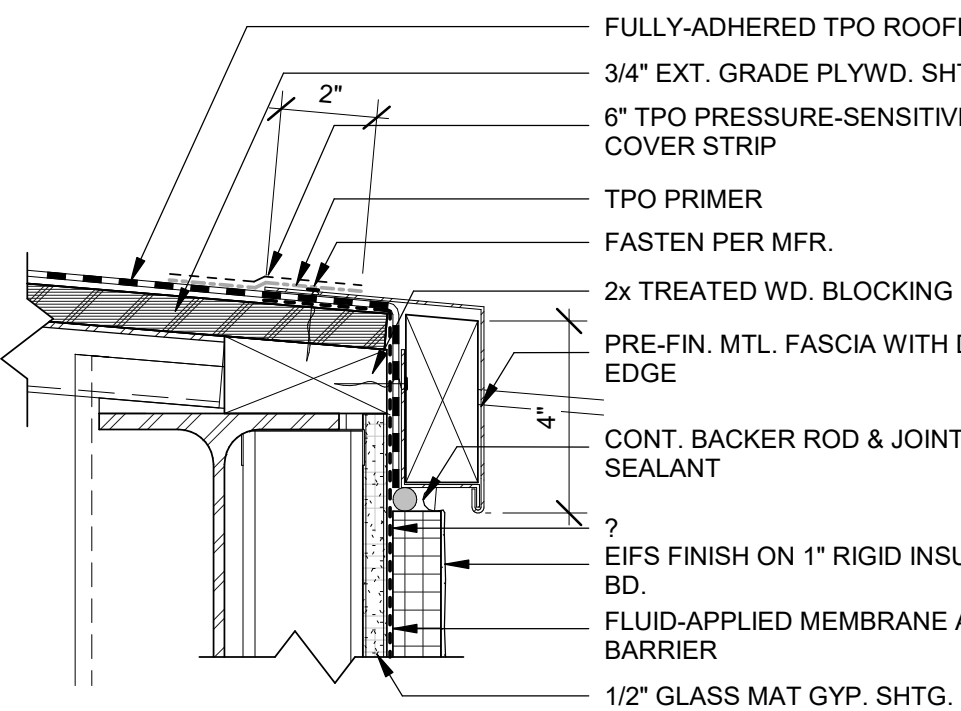
D1 ROOF - APP BAY (EAVE)
3" = 1'-0"



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

DETAIL NOTES:

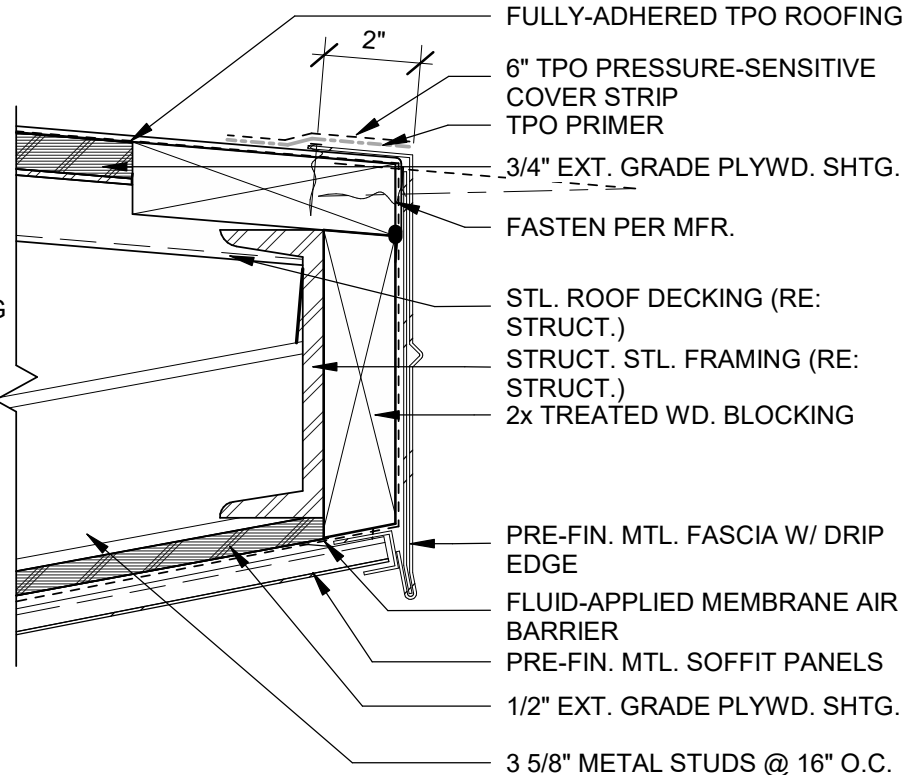
- METAL FASCIA DECK FLANGE TO BE COMPLETELY COVERED BY TPO PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" COVERAGE PAST NAIL HEADS.
- WOOD BLOCKING TO EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
- REMOVE ANY FINISHING OILS ON METAL FLASHING PER TPO MFR. (ALLOW TO DRY PRIOR TO APPLYING TPO PRIMER).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



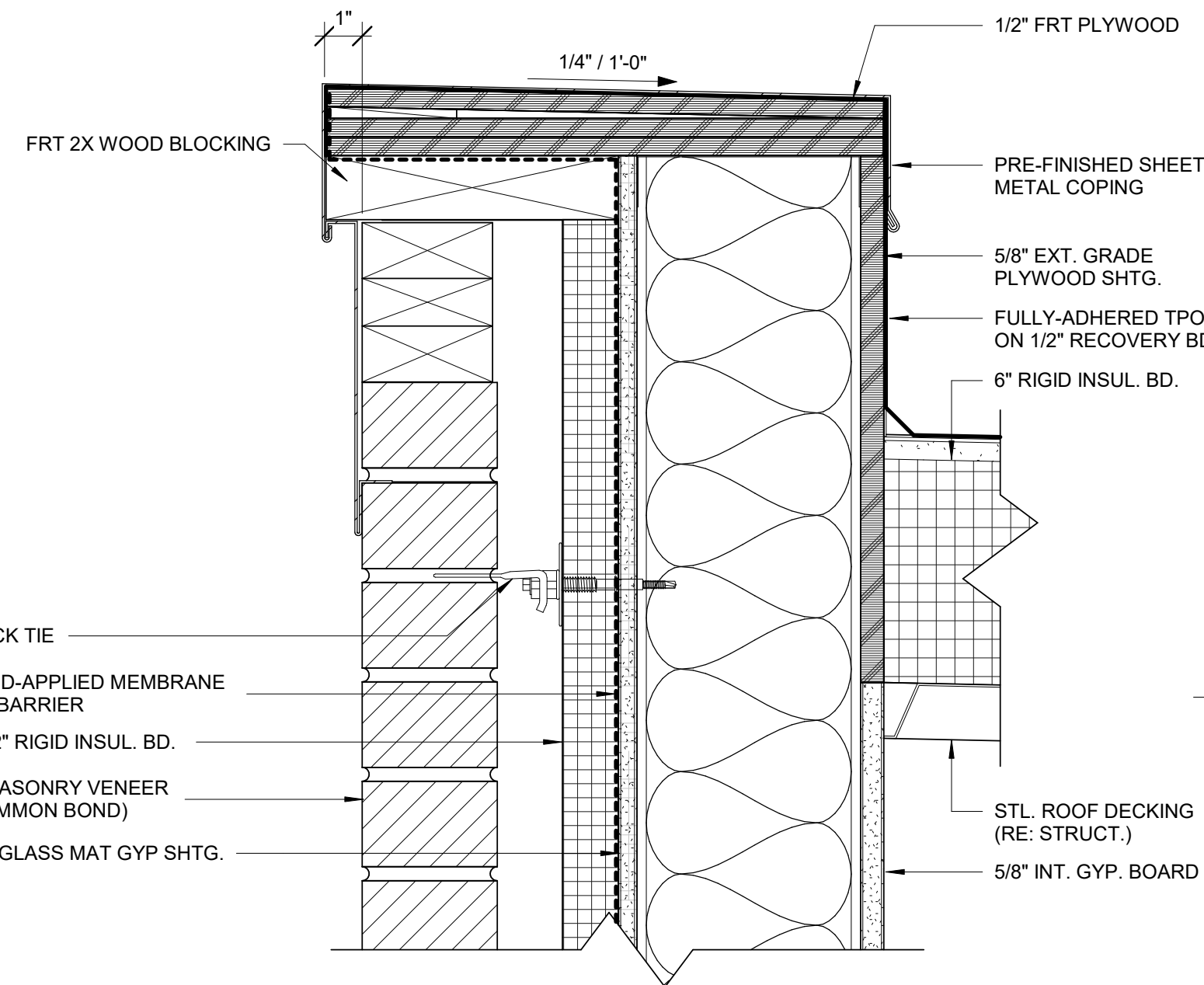
D5 ROOF EDGE DETAIL
3" = 1'-0"

DETAIL NOTES:

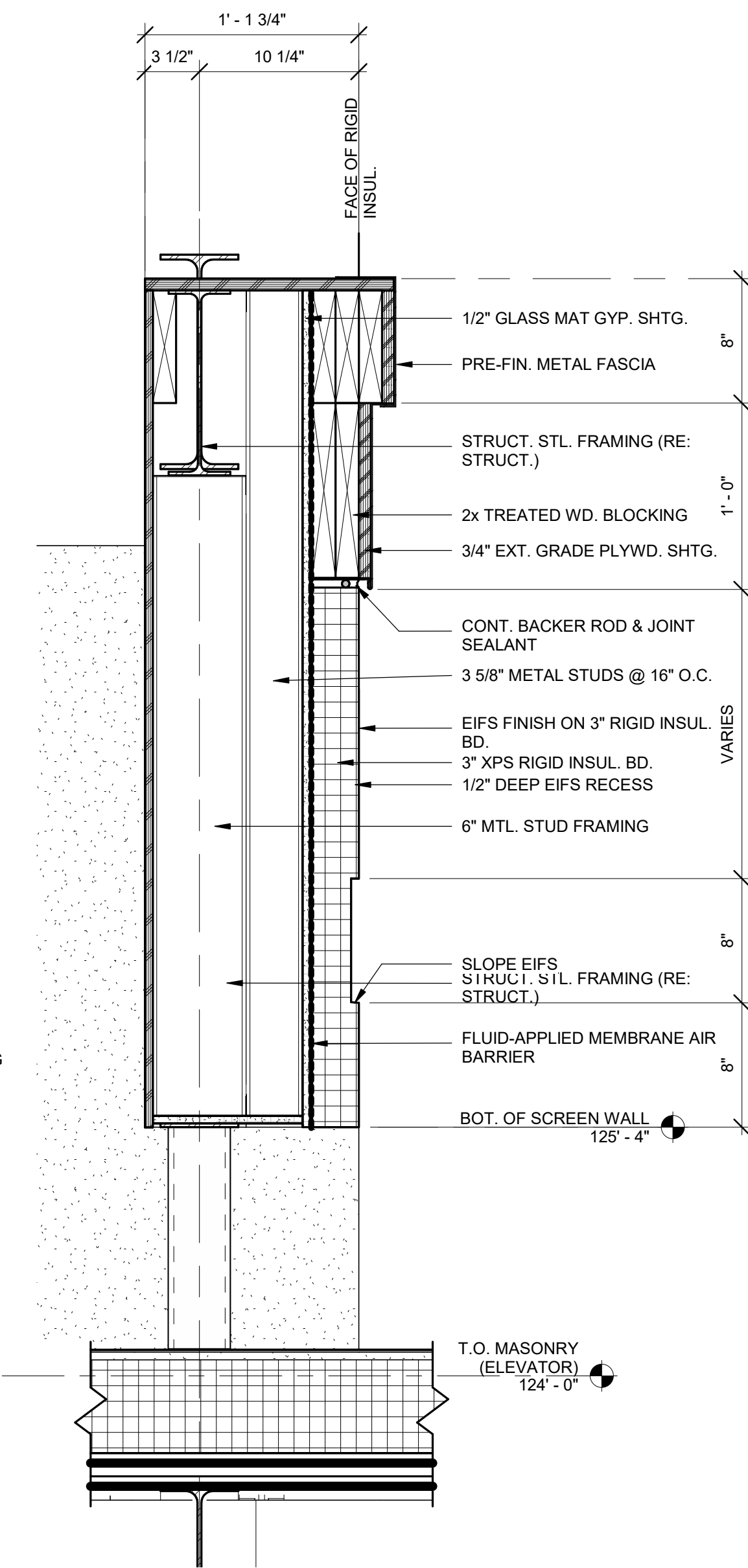
- METAL FASCIA DECK FLANGE TO BE COMPLETELY COVERED BY TPO PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" COVERAGE PAST NAIL HEADS.
- WOOD BLOCKING TO EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
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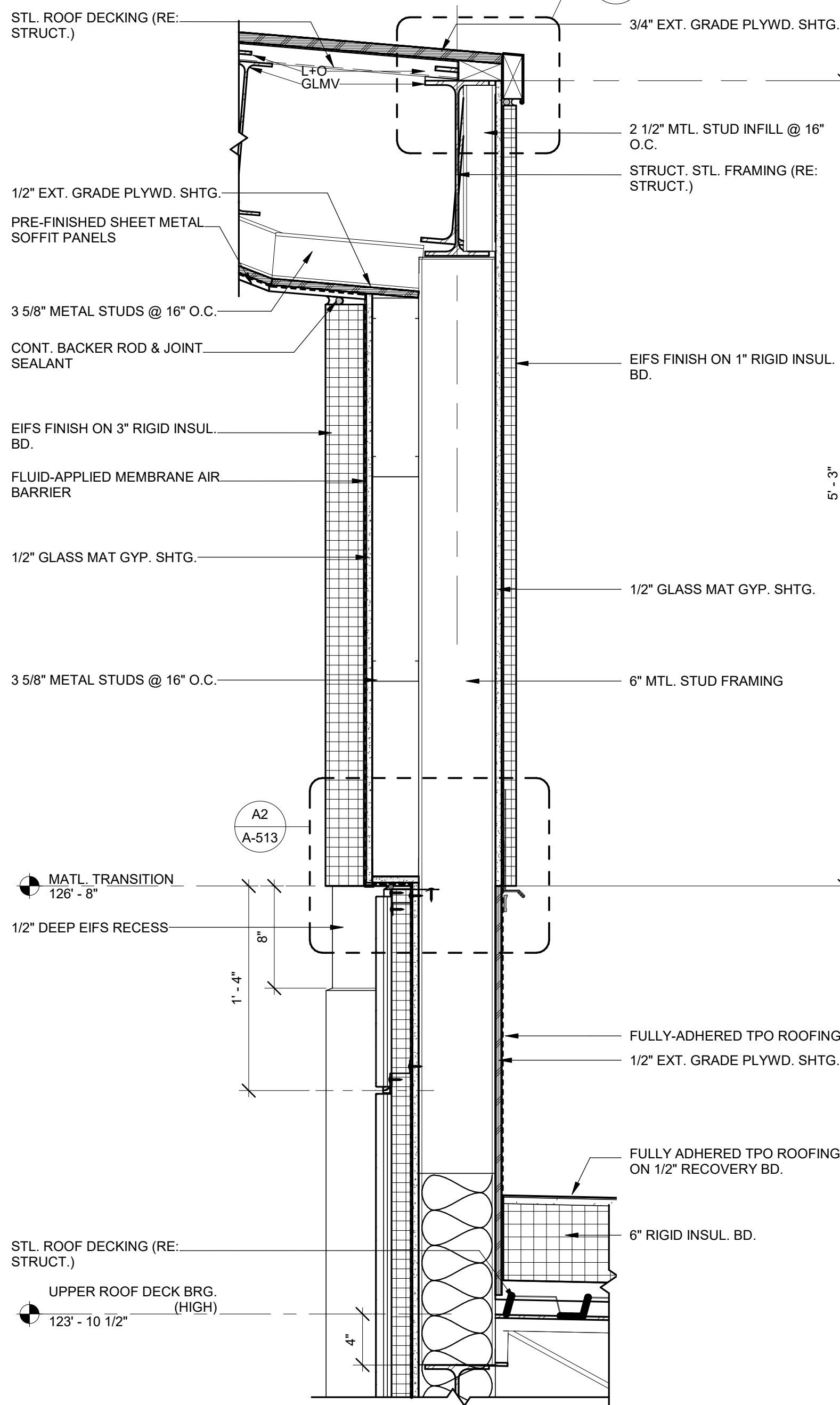
D7 ROOF EAVE DETAIL
3" = 1'-0"



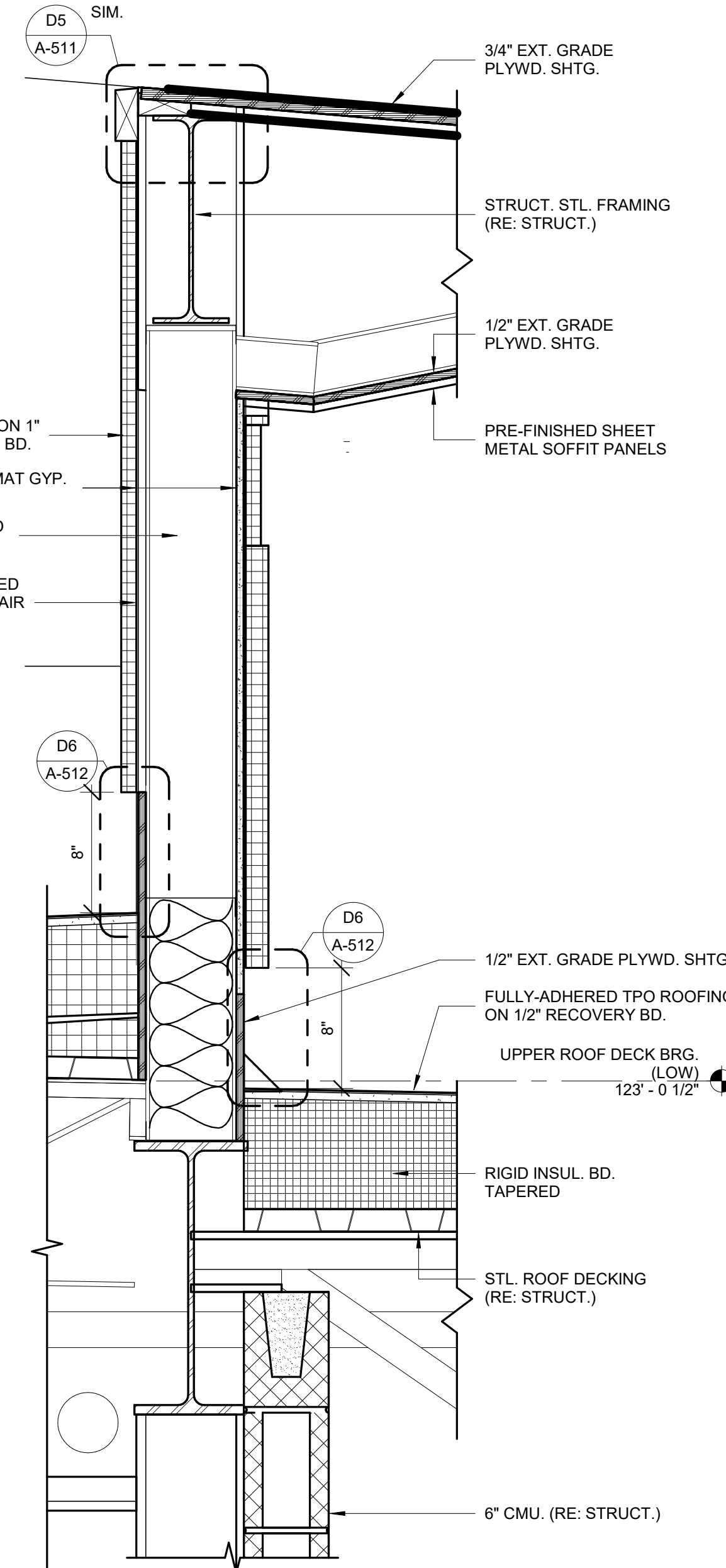
A1 PARAPET DETAIL
3" = 1'-0"



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



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



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

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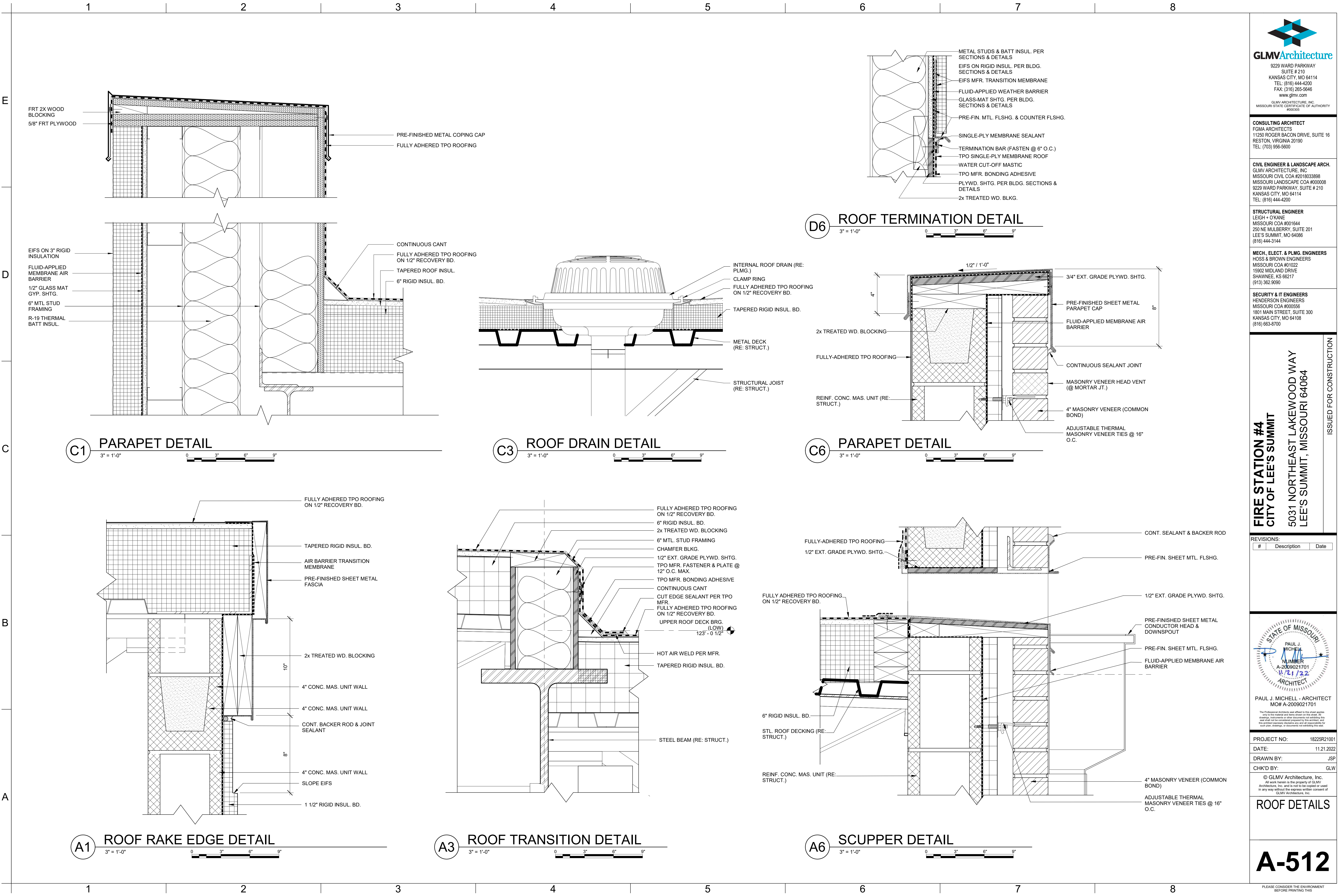
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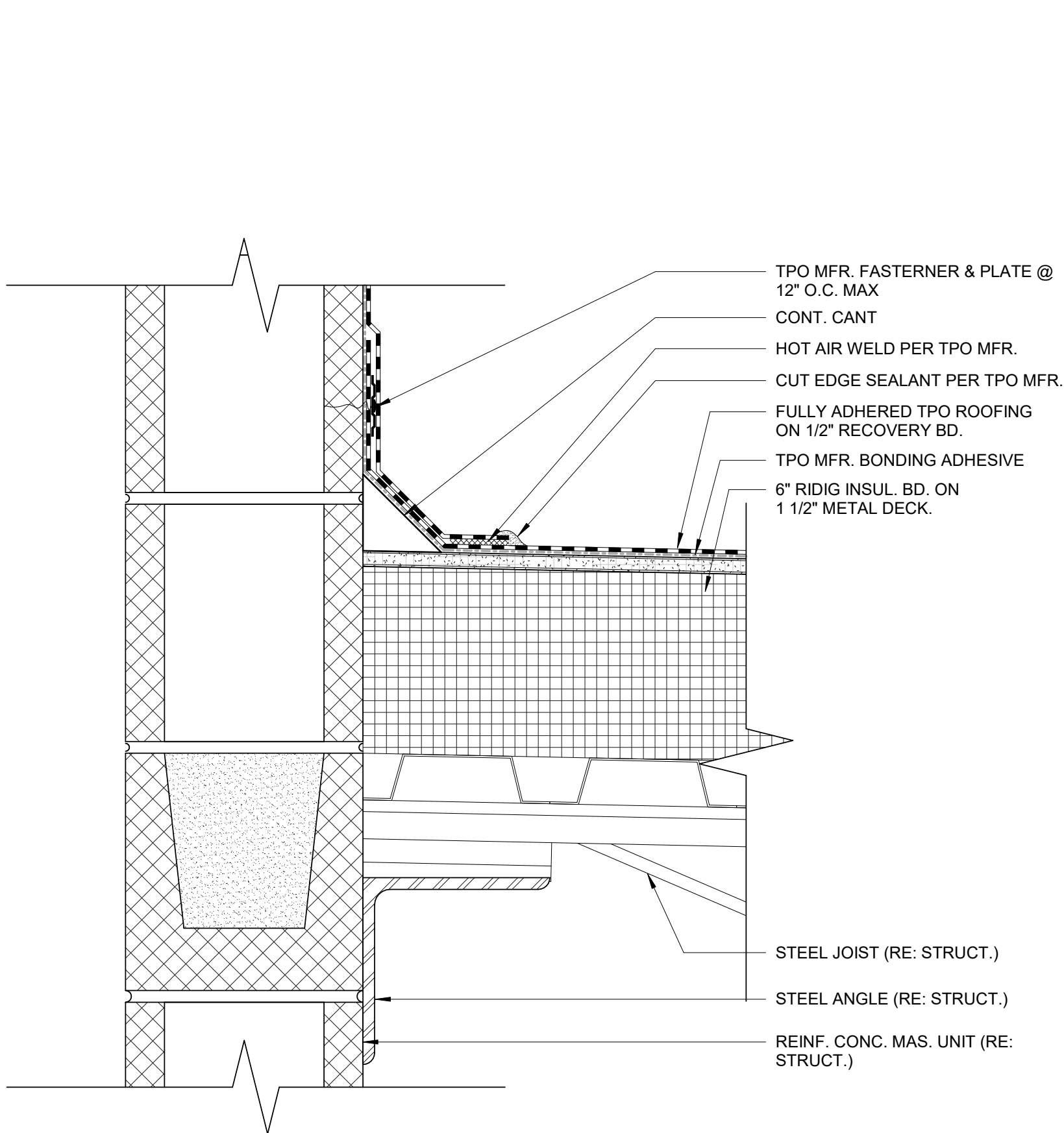
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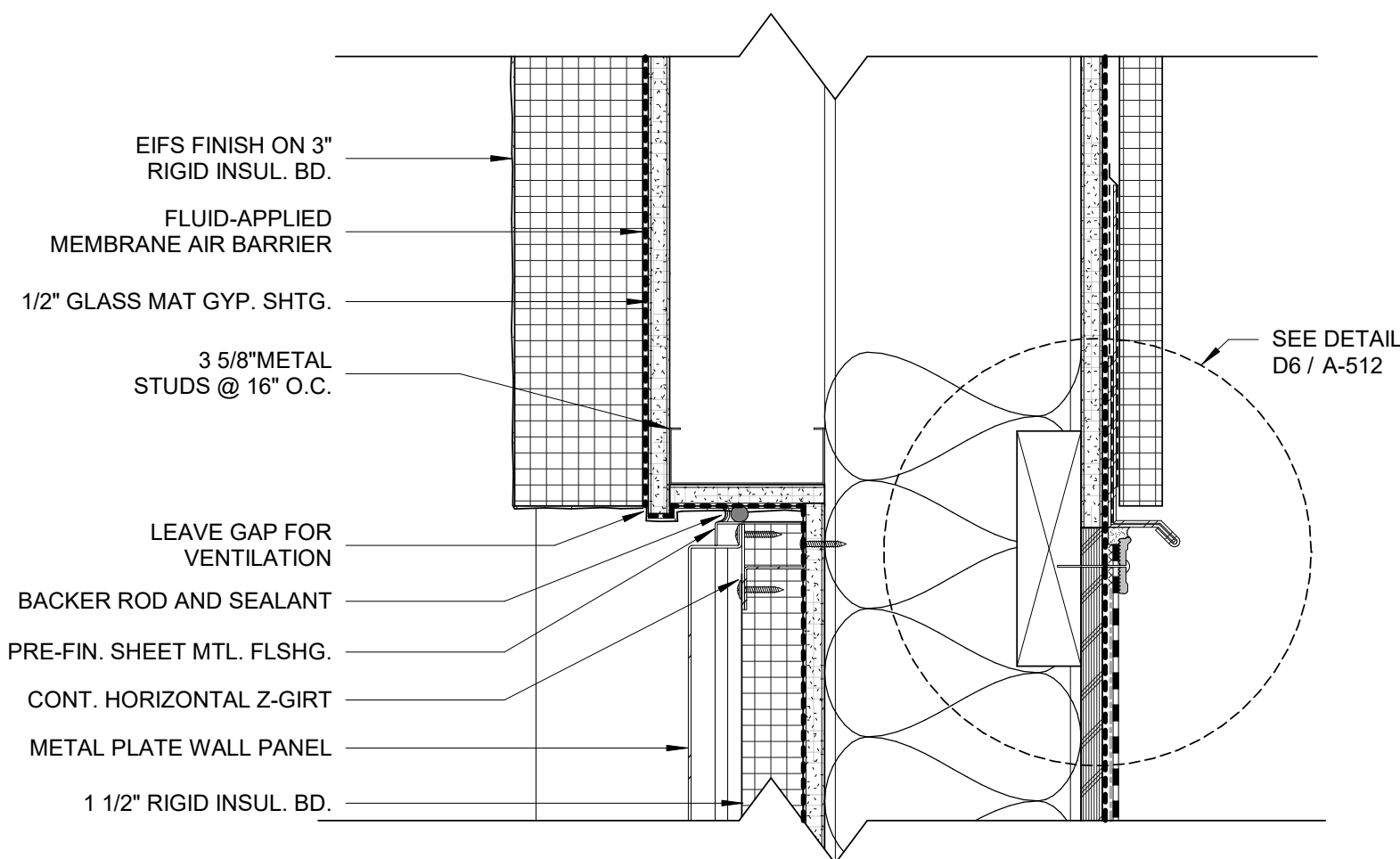
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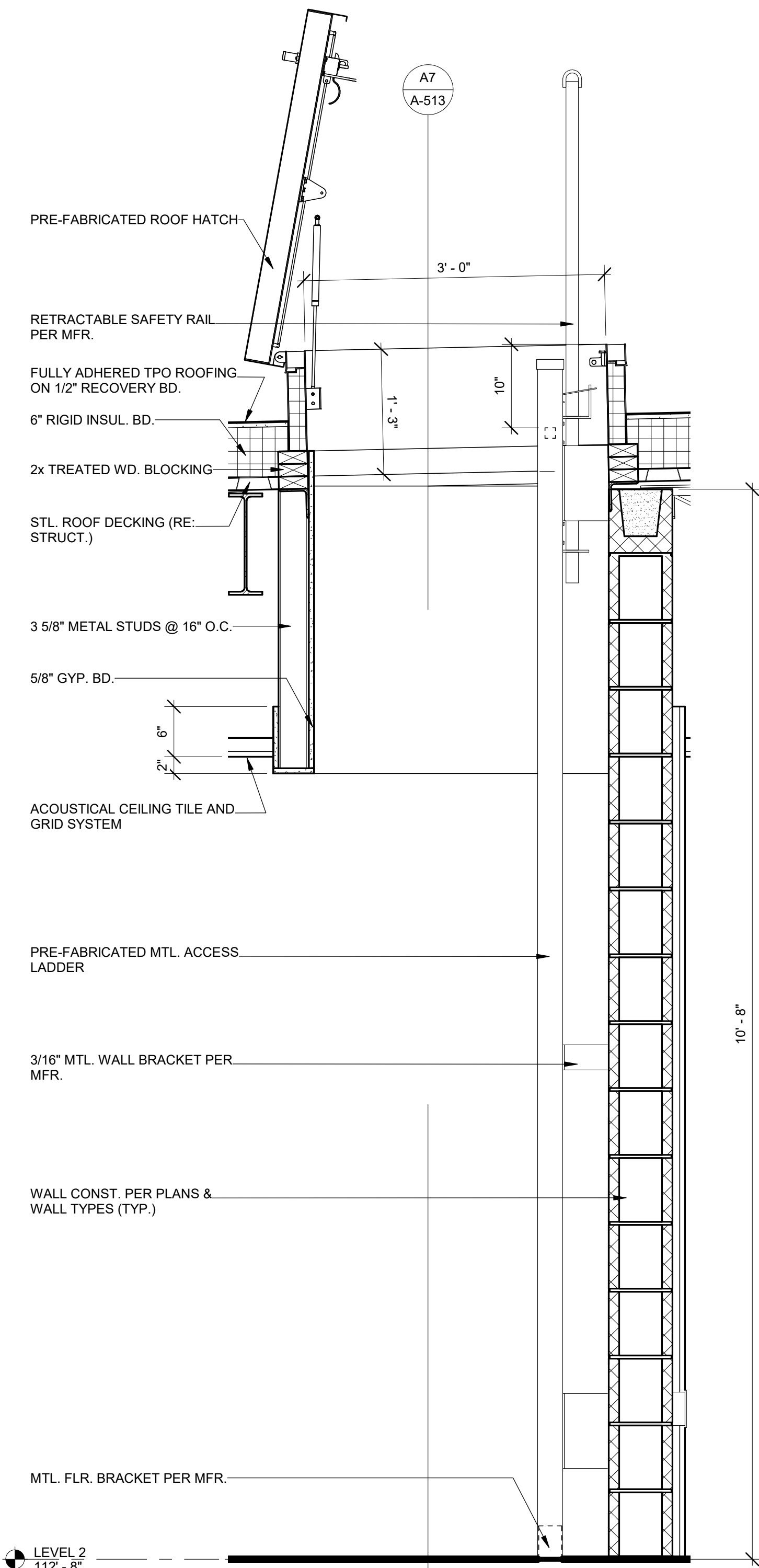
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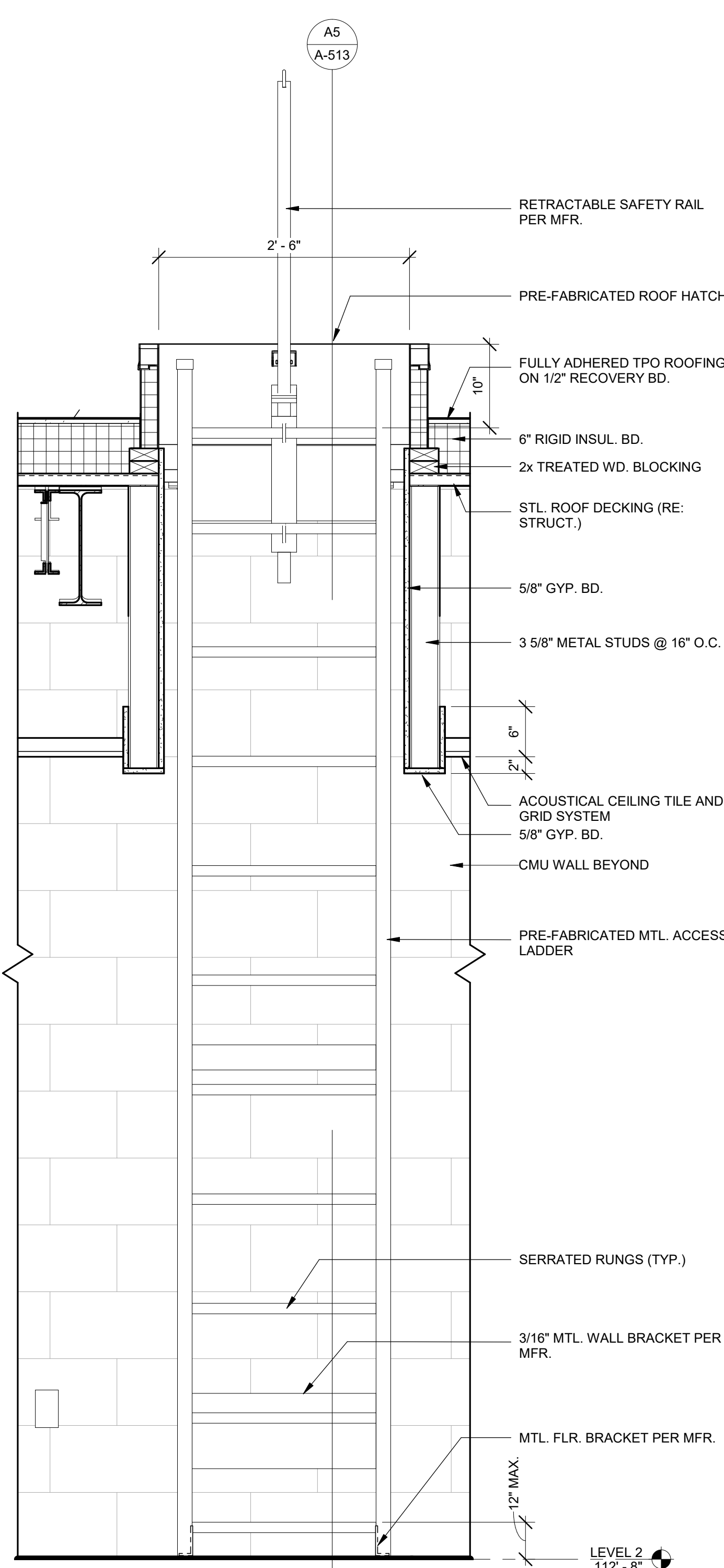
B2 WALL - CMU - VERT TRANS @ APP BAY
3" = 1'-0"



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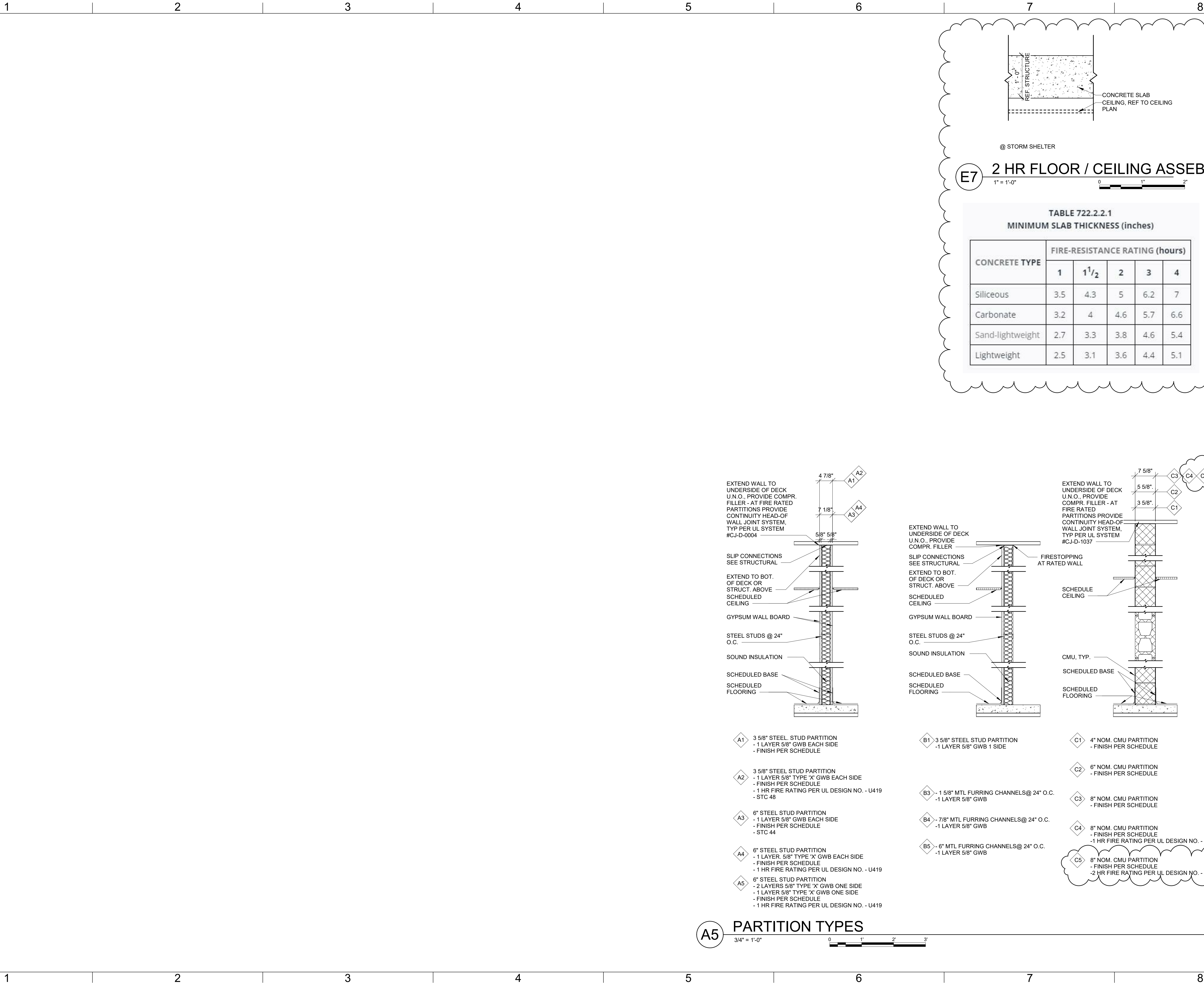
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**PARTITION
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BXUV.U906 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

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

Fire-resistance Ratings - ANSI/UL 263

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

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

Design Criteria and Allowable Variances

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

Design Criteria and Allowable Variances

Design No. U906

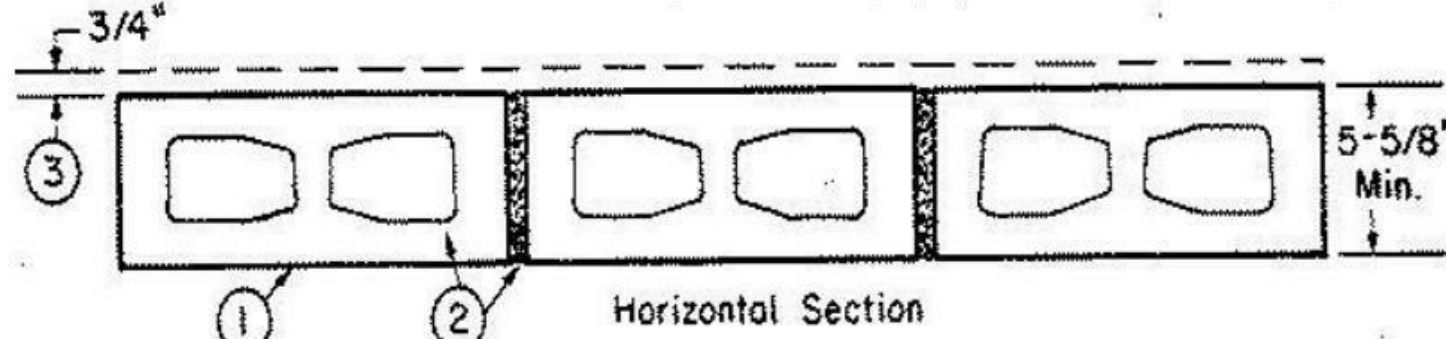
June 6, 2022

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR.

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

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



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

ANCHOR CONCRETE PRODUCTS INC

GAGNE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS

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

OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS

WESTBROOK CONCRETE BLOCK CO INC

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

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

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

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

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

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

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

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

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

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

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

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

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

Last Updated on 2022-06-06

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CHK'D BY:	Checker

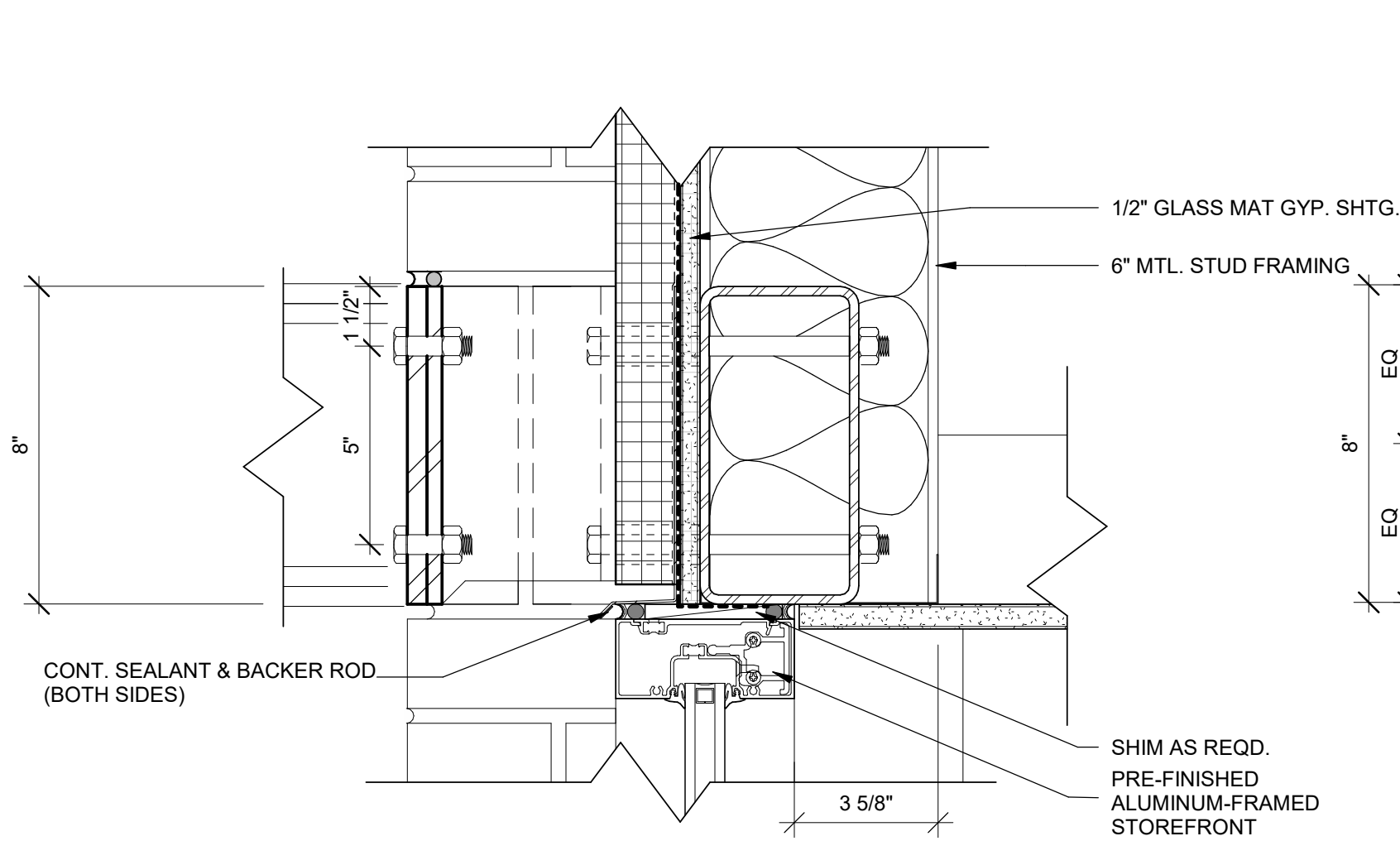
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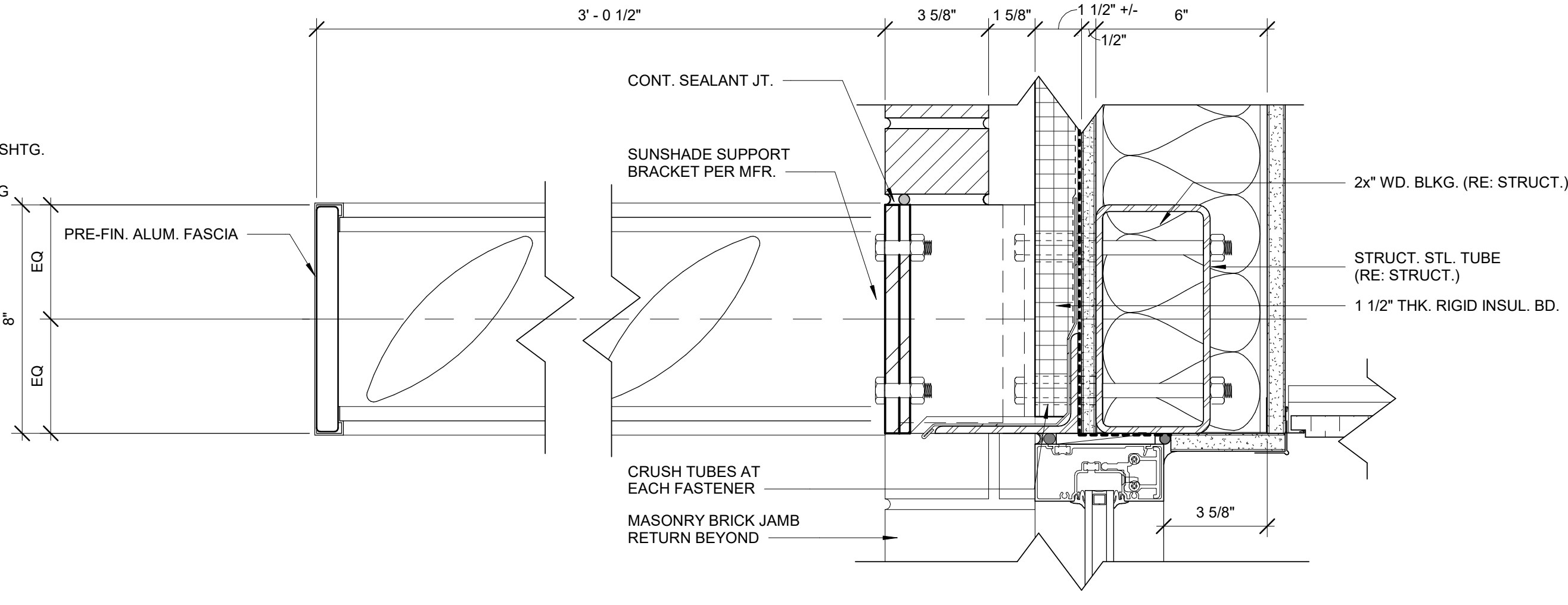
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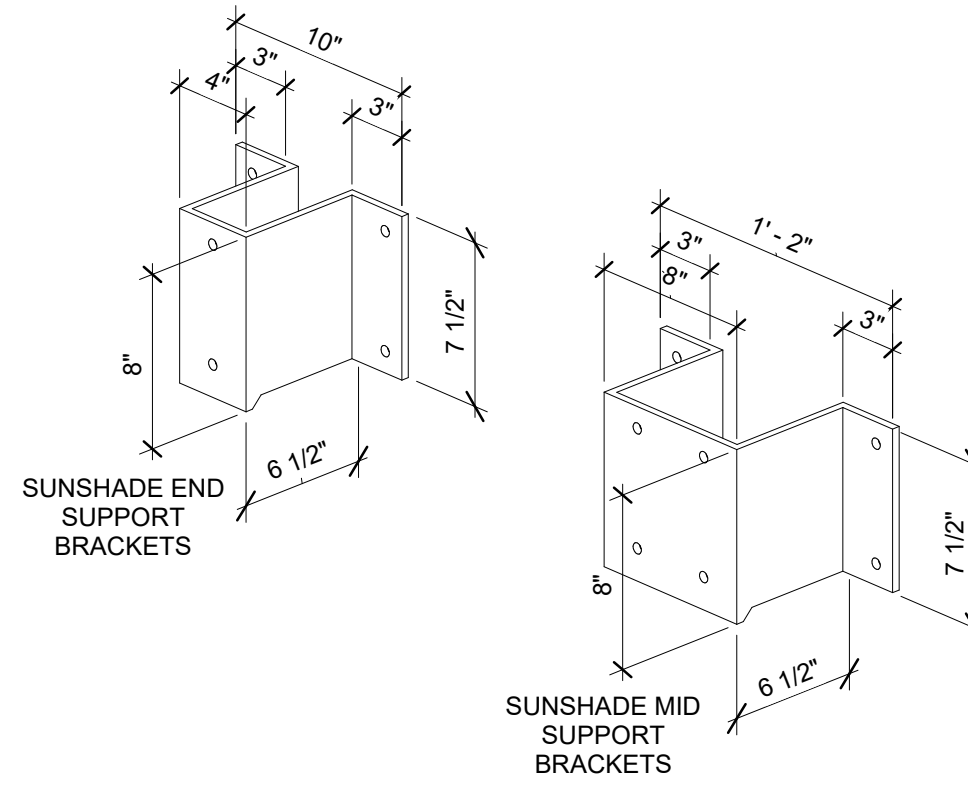
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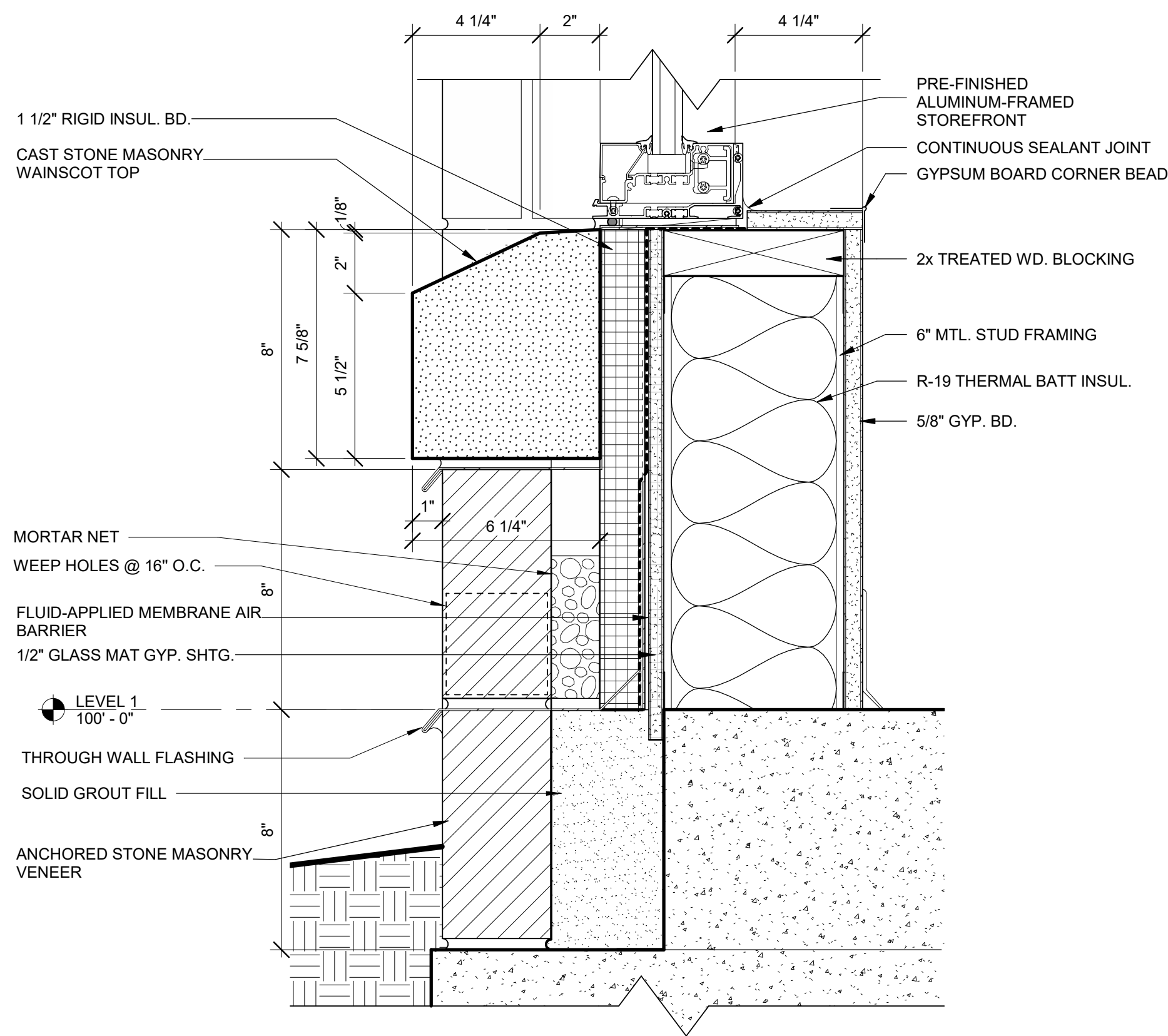
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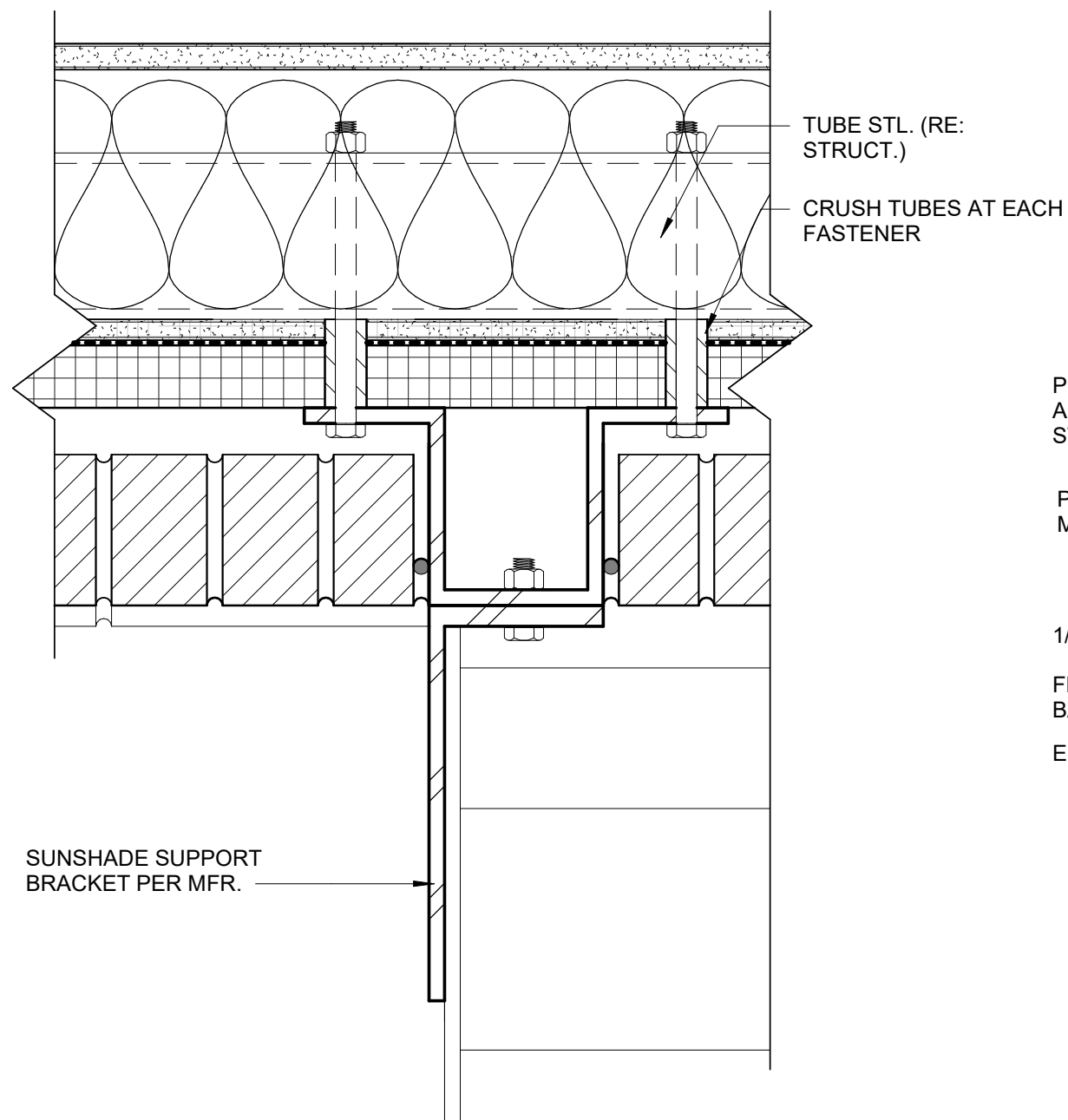
C7 SUNSHADE BRACKET



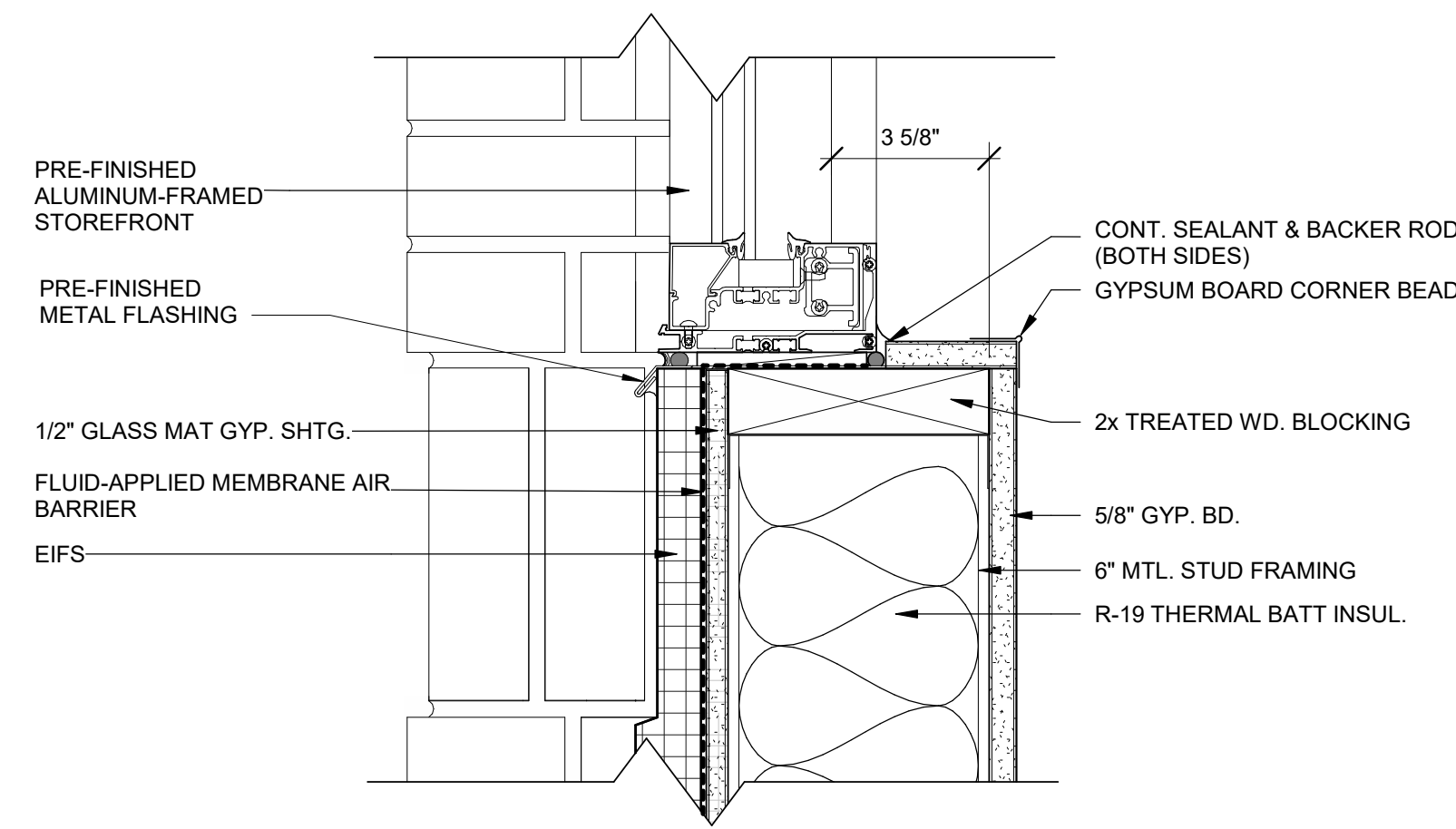
A1 WINDOW SILL DETAIL



A3 SUNSHADE PLAN DETAIL



A5 WINDOW SILL @ EIFS



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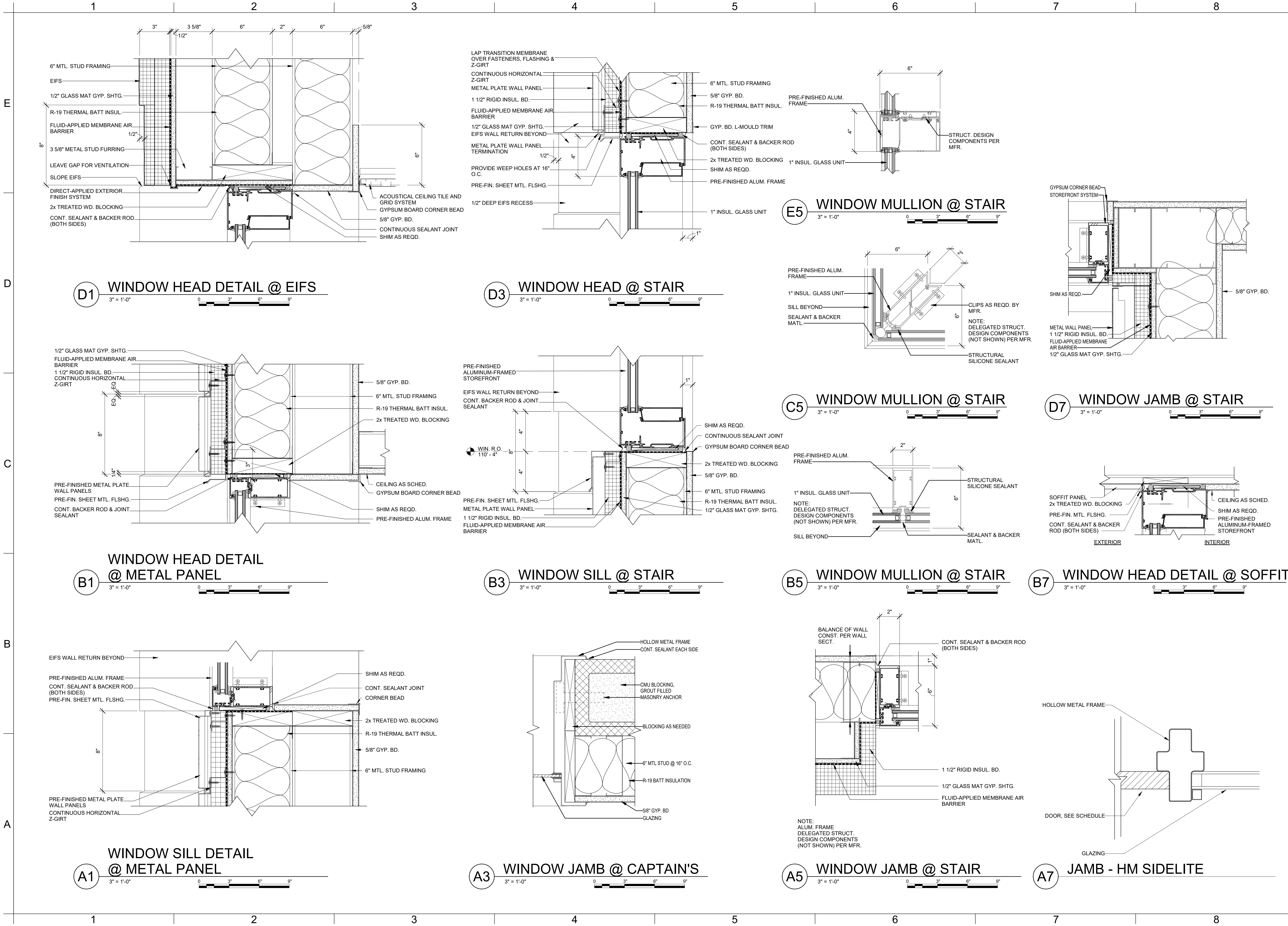
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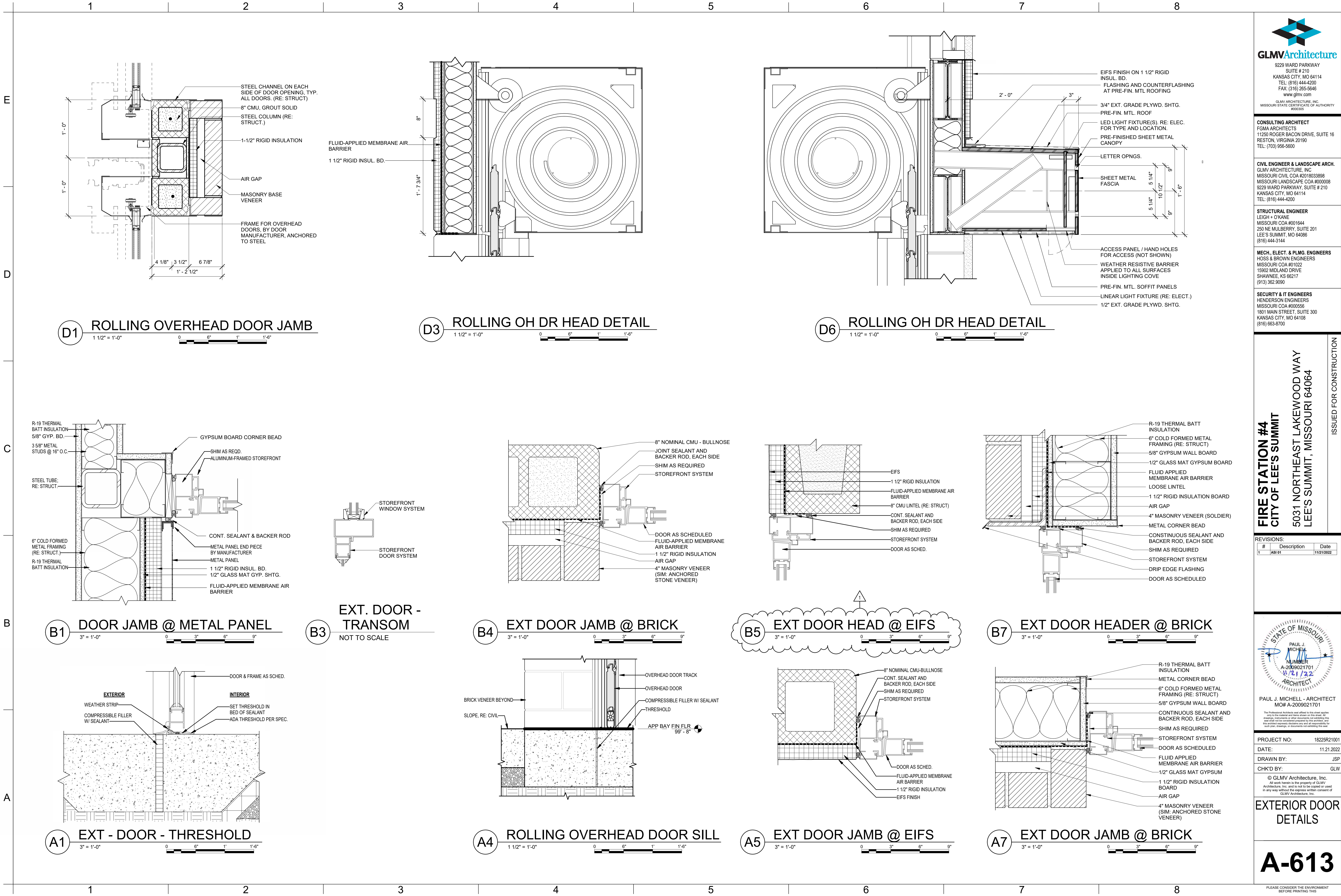
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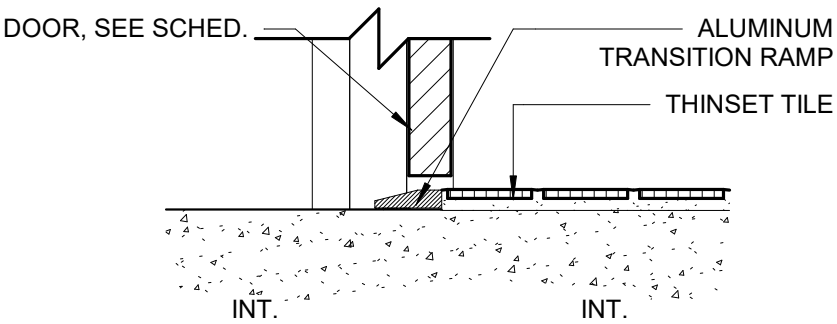
PROJECT NO: 18225R21001
DATE: 11.21.2022
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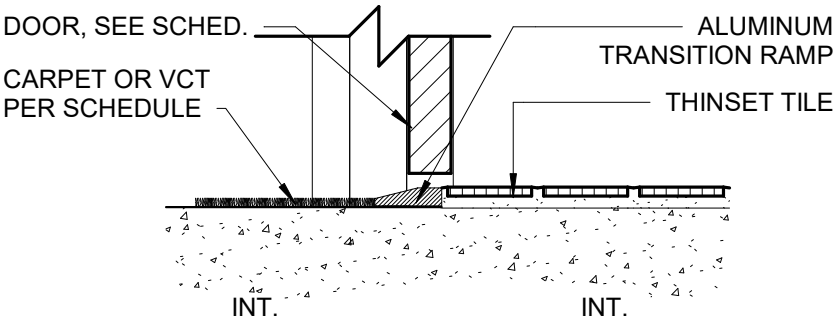
DOOR DETAILS

A-622

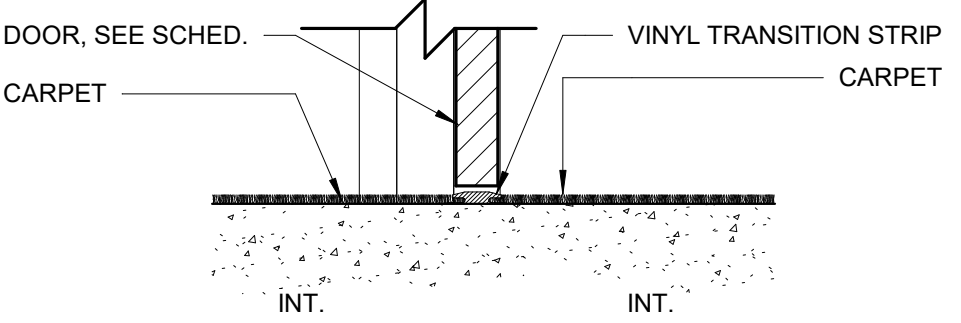
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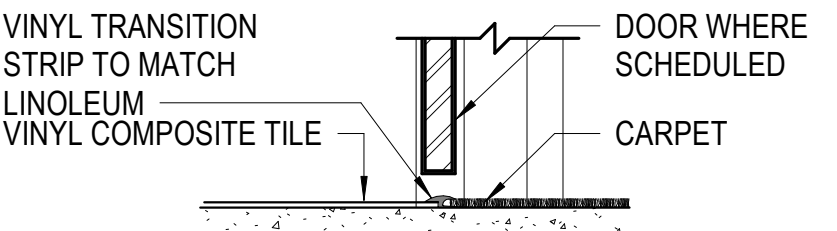
E7 THRESHOLD - CONC TO TILE



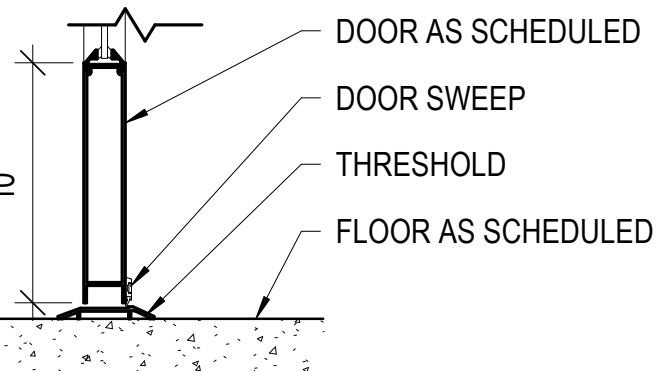
D7 THRESHOLD - CPT, LVT, VCT TO TILE



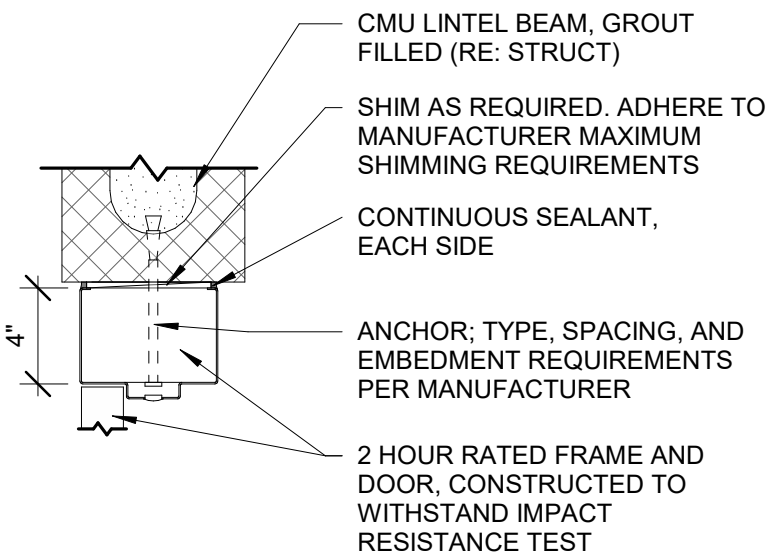
C7 THRESHOLD - CPT TO CPT



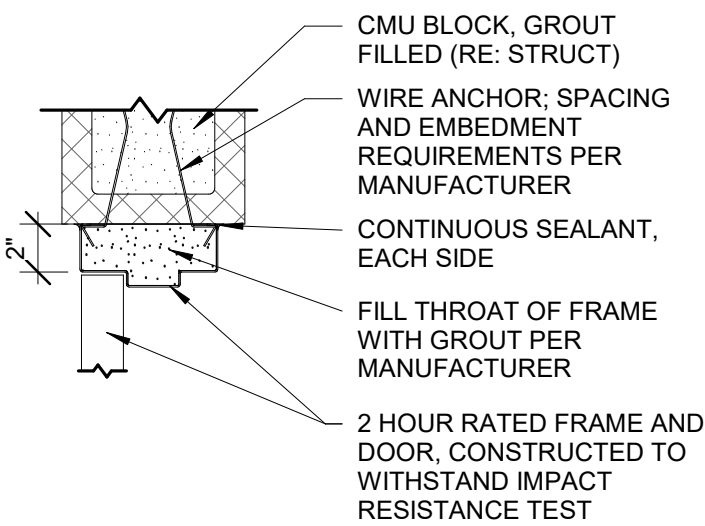
B7 THRESHOLD - VCT TO CPT



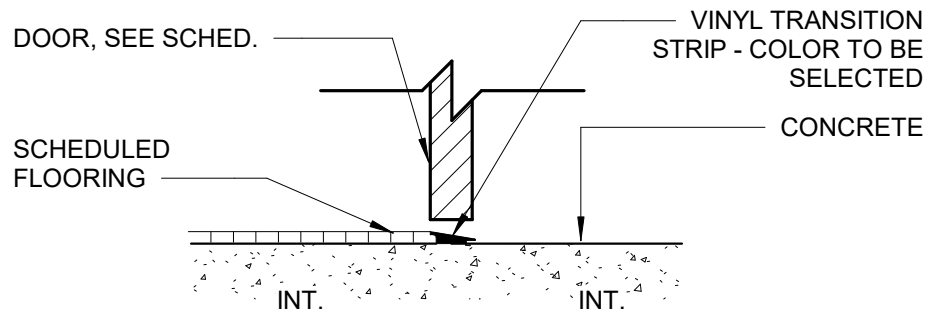
A7 STOREFRONT - SILL - DOOR



B3 DOOR HEADER STORM SHELTER

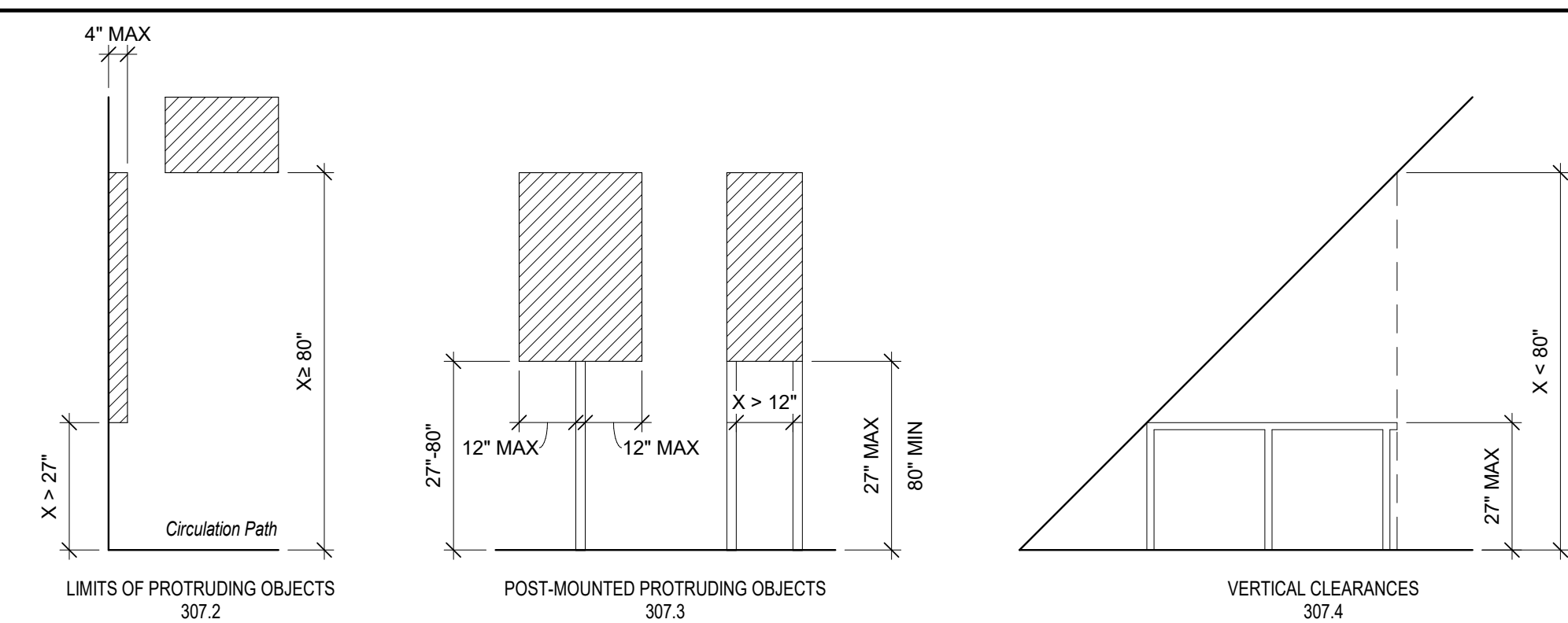


A3 DOOR JAMB STORM SHELTER

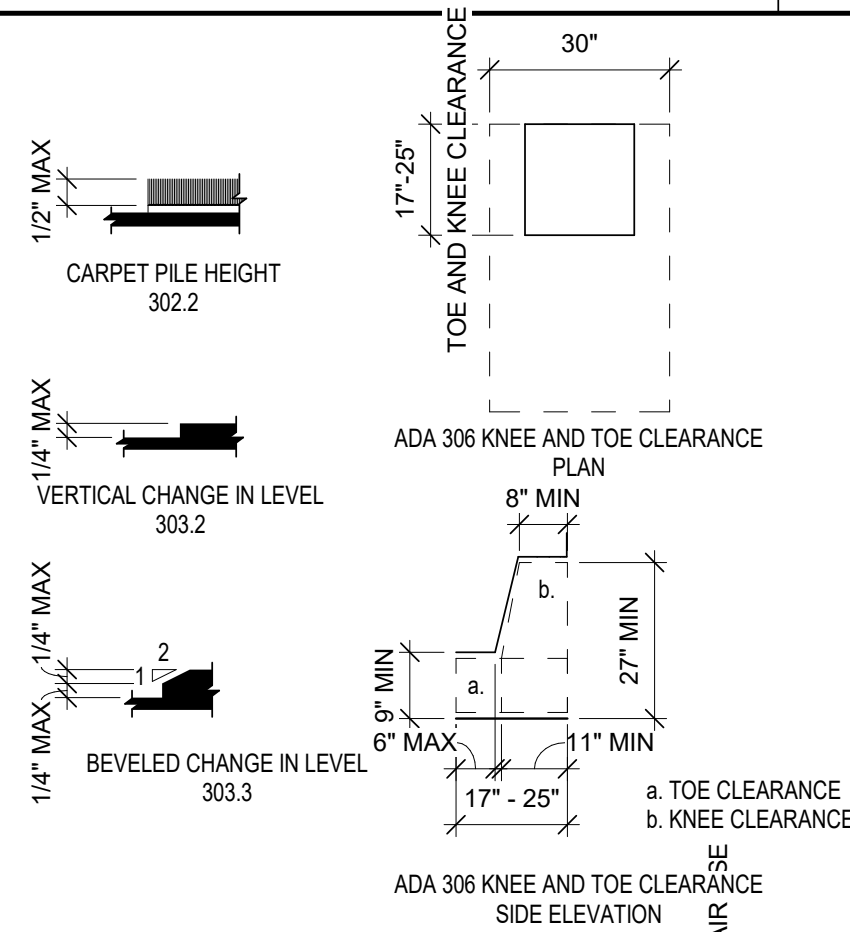
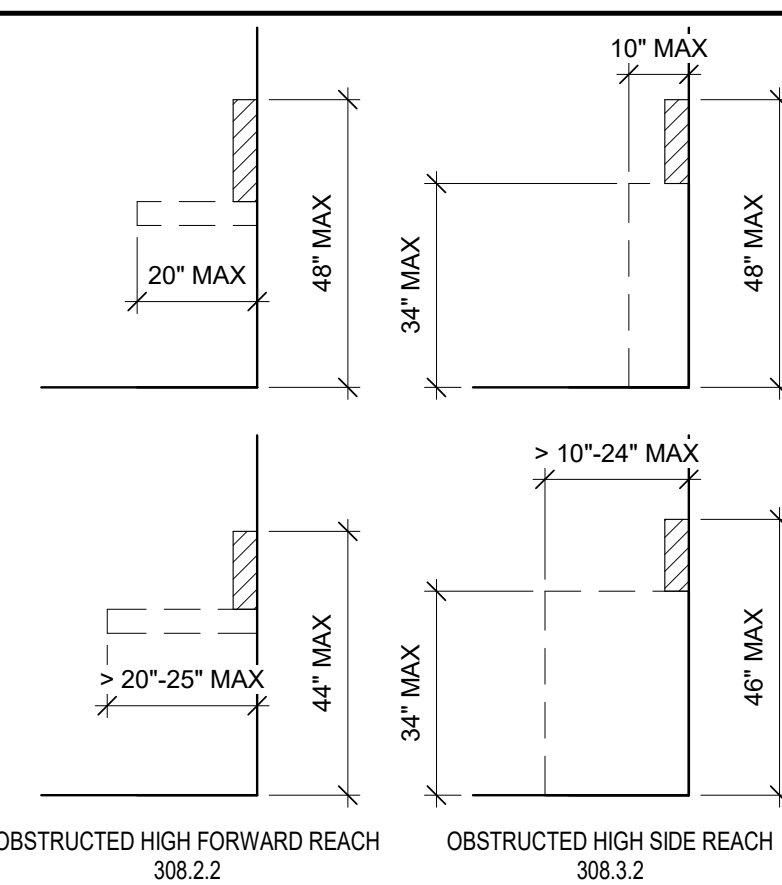


A5 THRESHOLD - INT CONC TO CPT, VCT, RF

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.

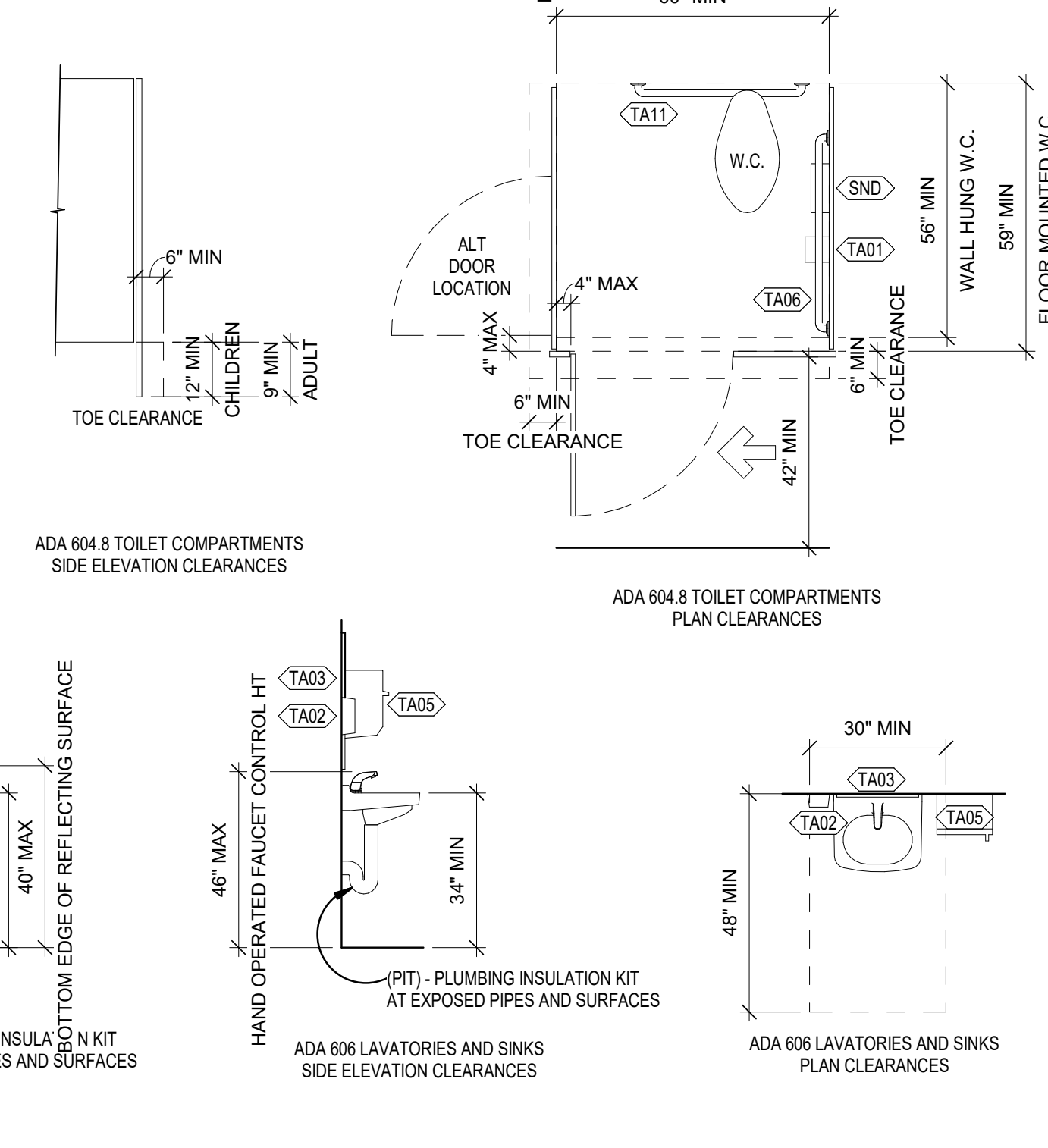
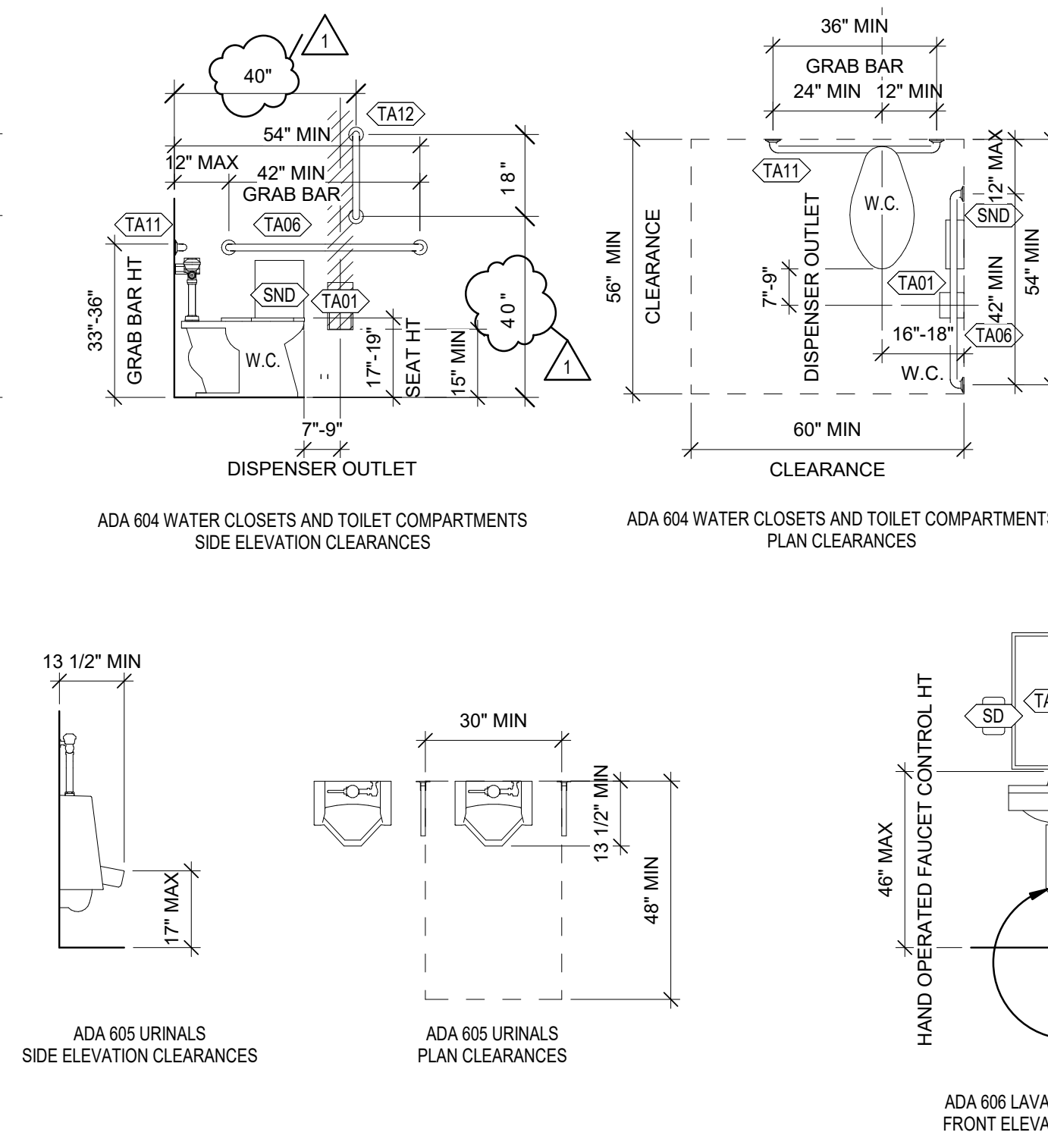
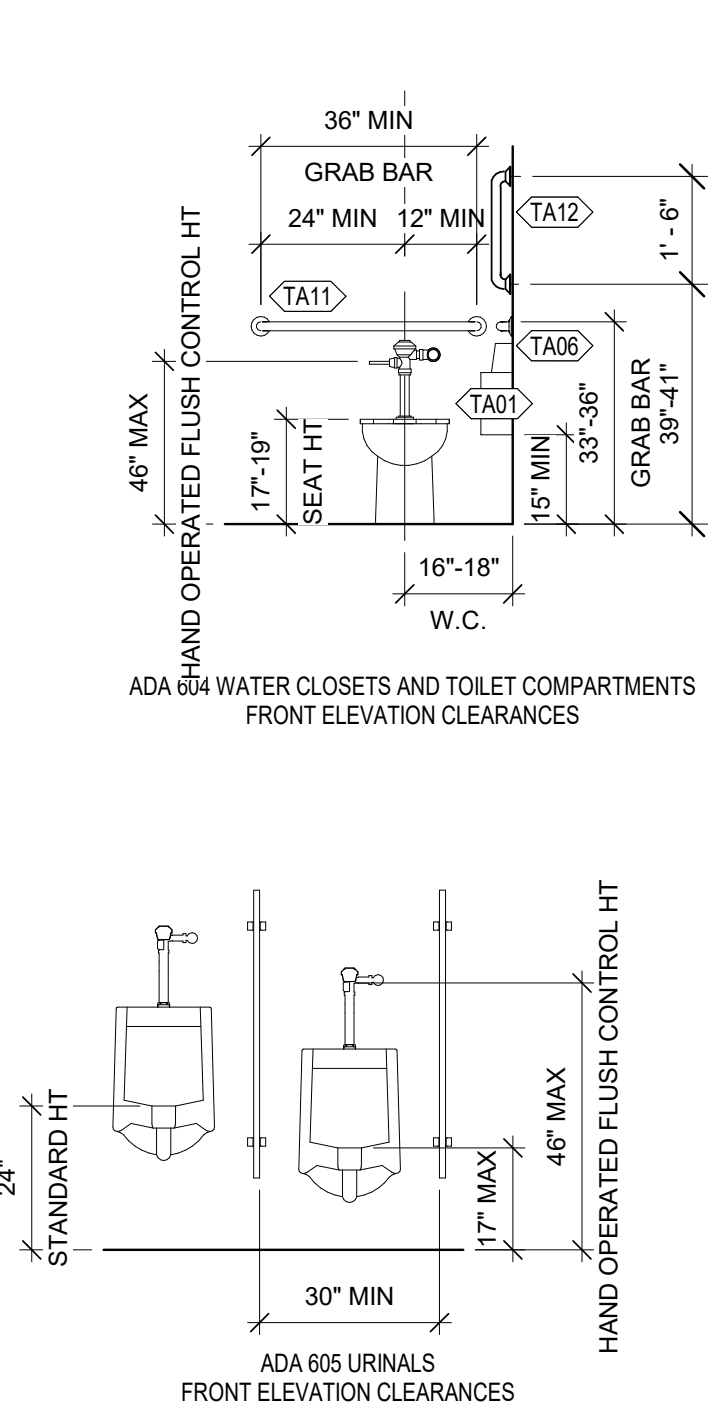
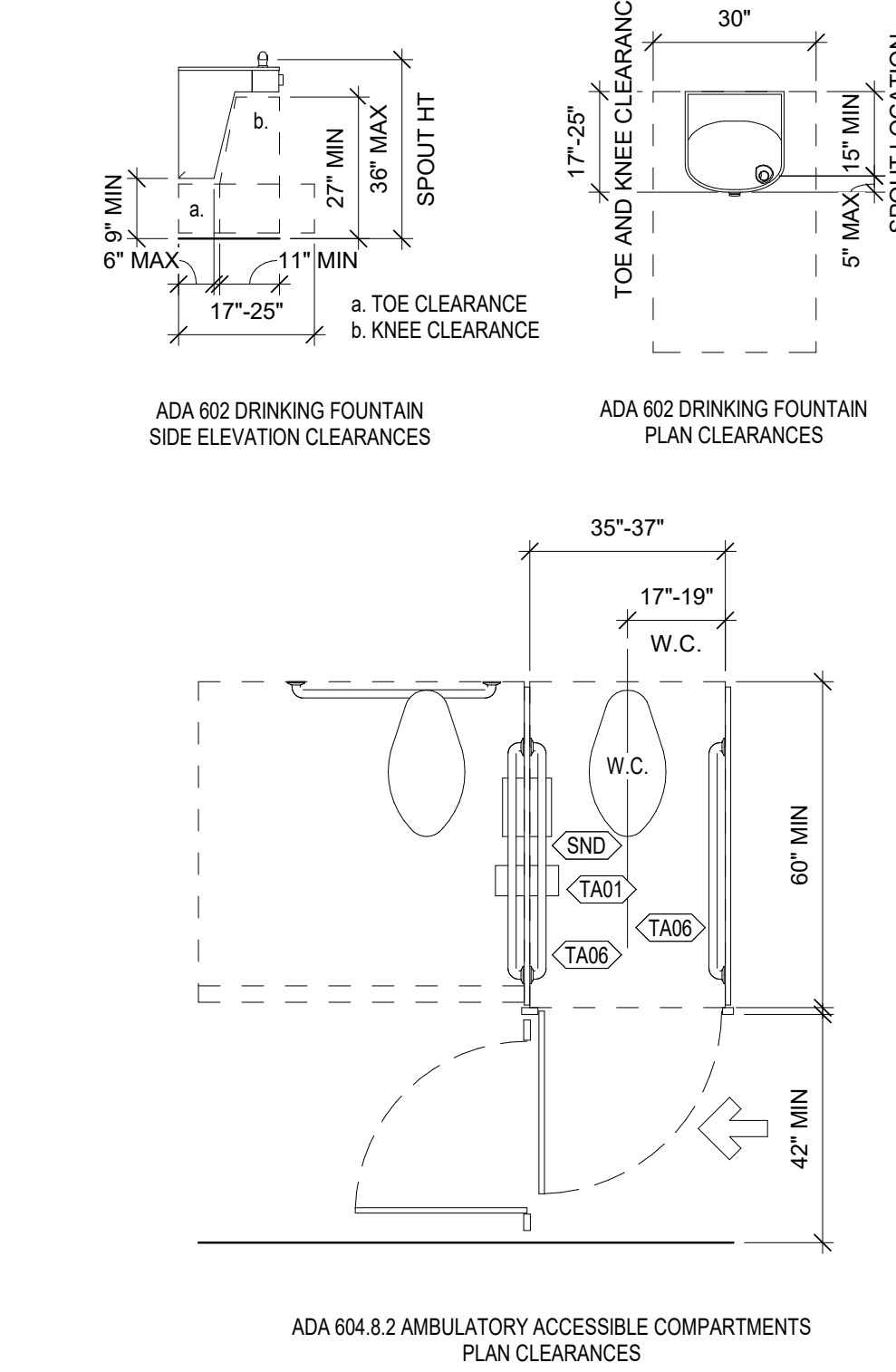


SYMBOLS OF ACCESSIBILITY

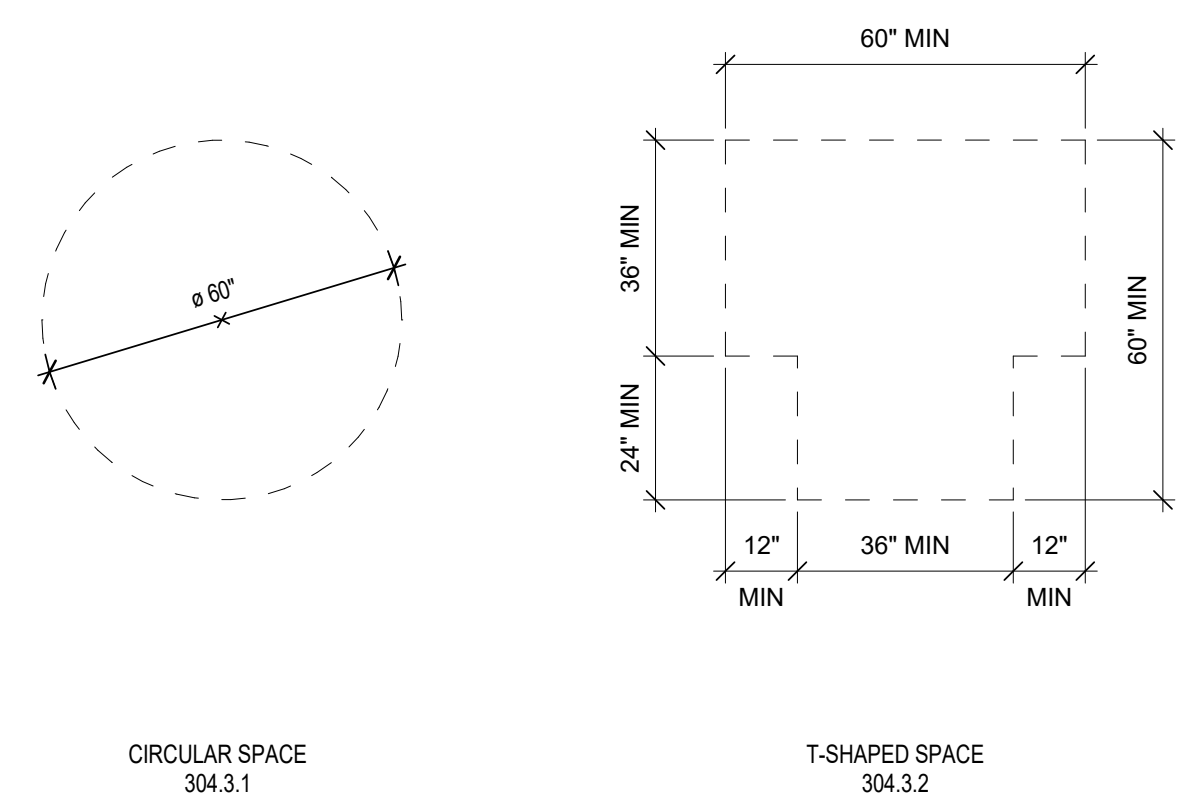
SHEET NOTES

- 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.

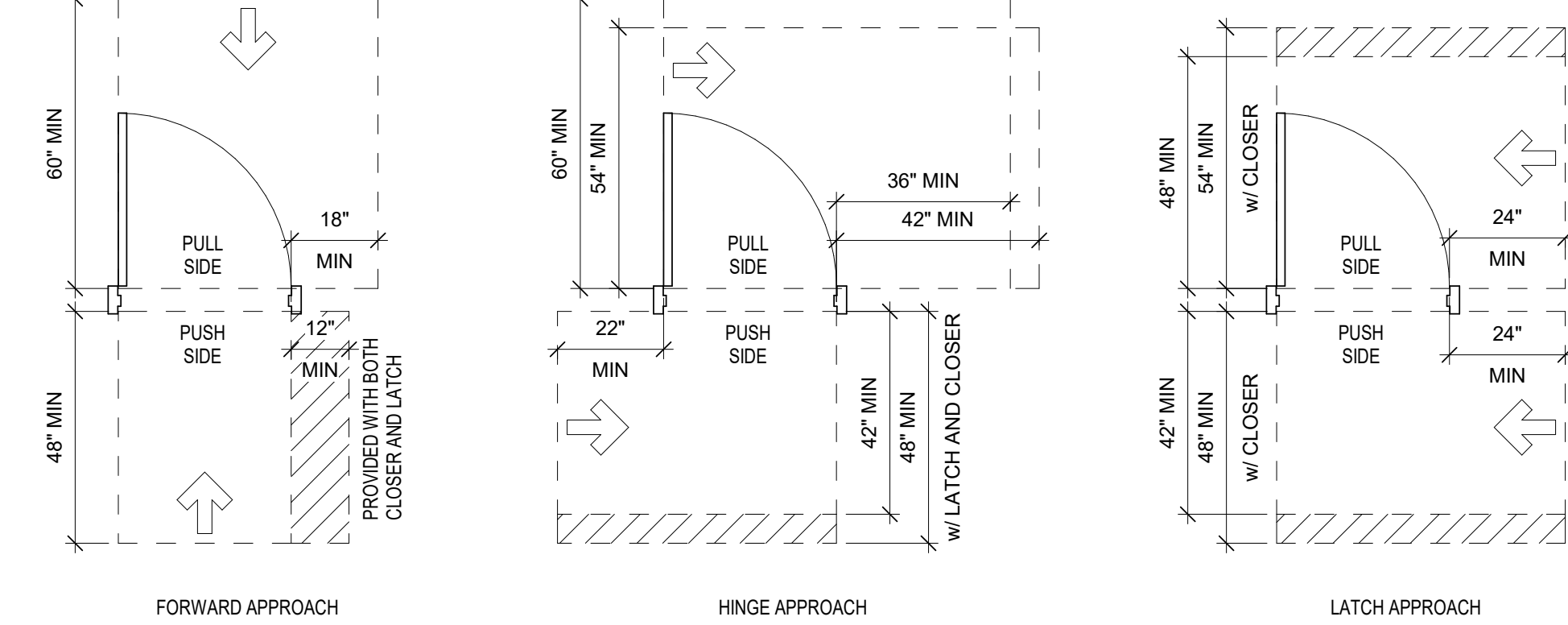
PLUMBING ELEMENTS AND FACILITIES



CLEAR FLOOR AND GROUND SPACE



DOOR MANEUVERING CLEARANCES



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(816) 663-8700

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

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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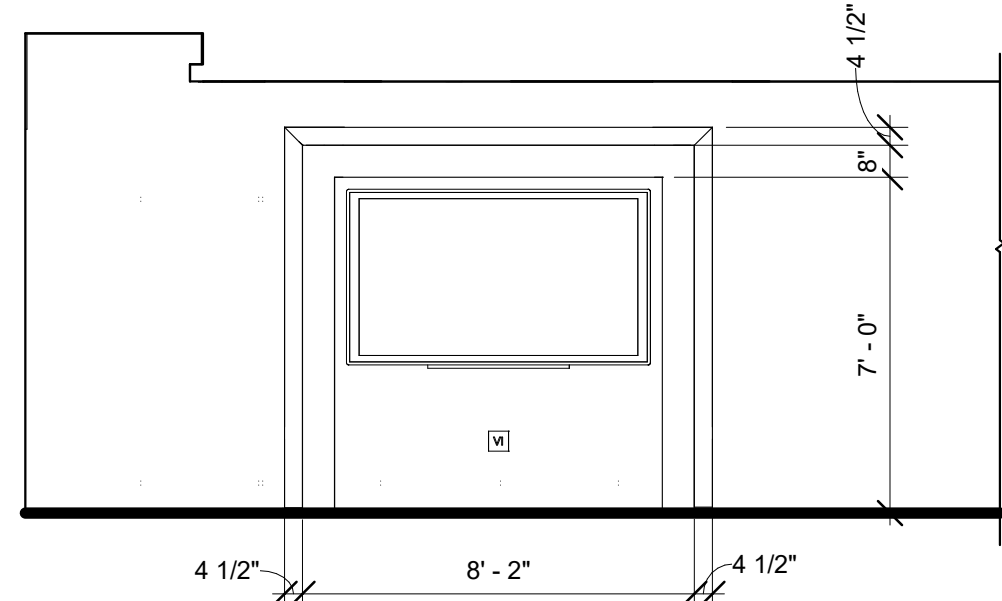
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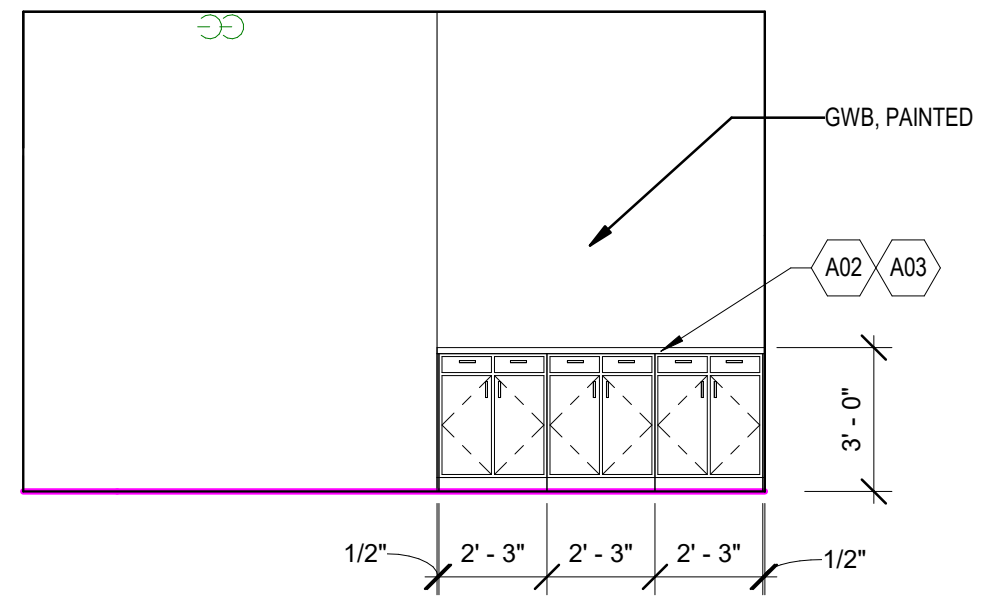
TYPICAL MOUNTING HEIGHTS

I-001

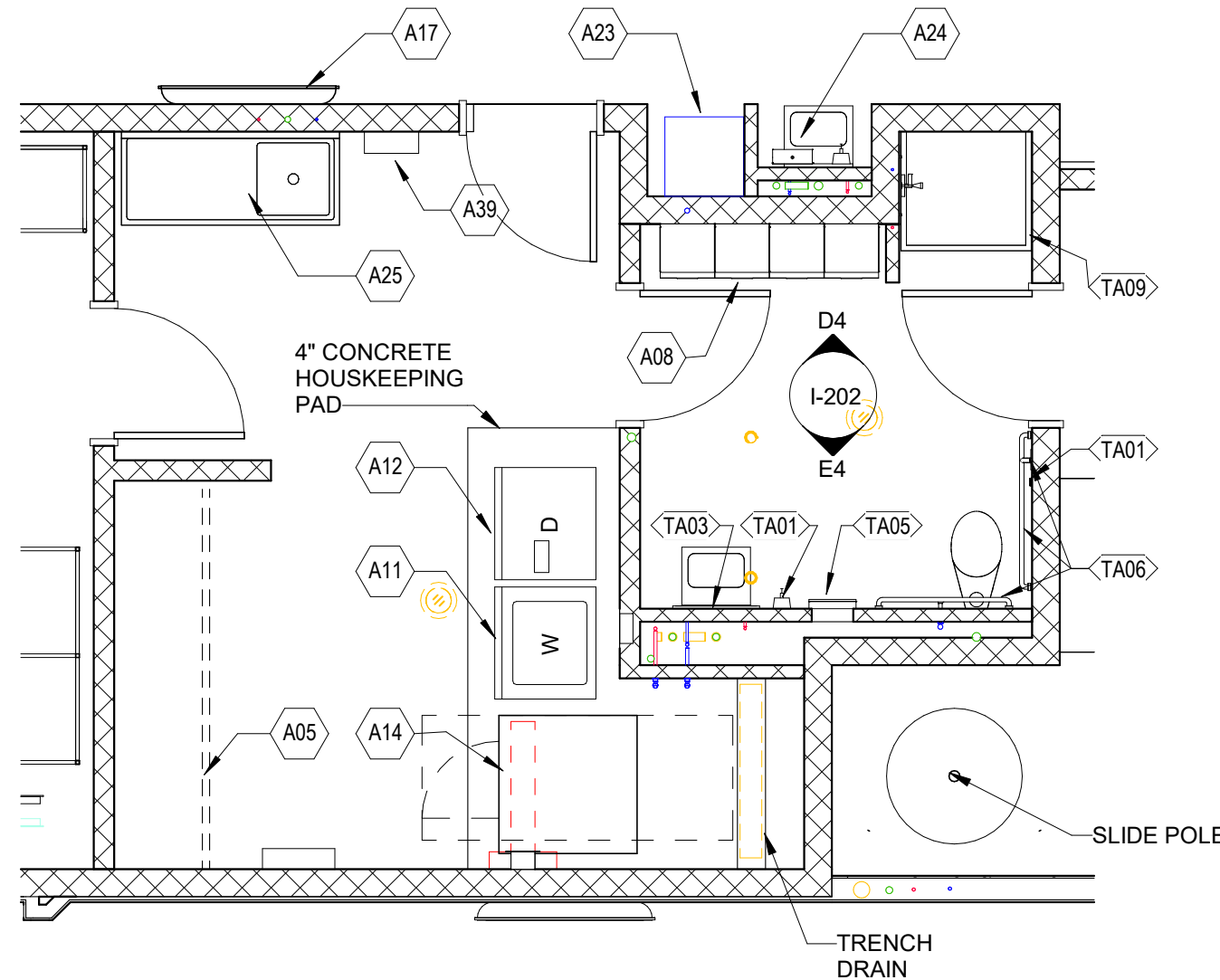
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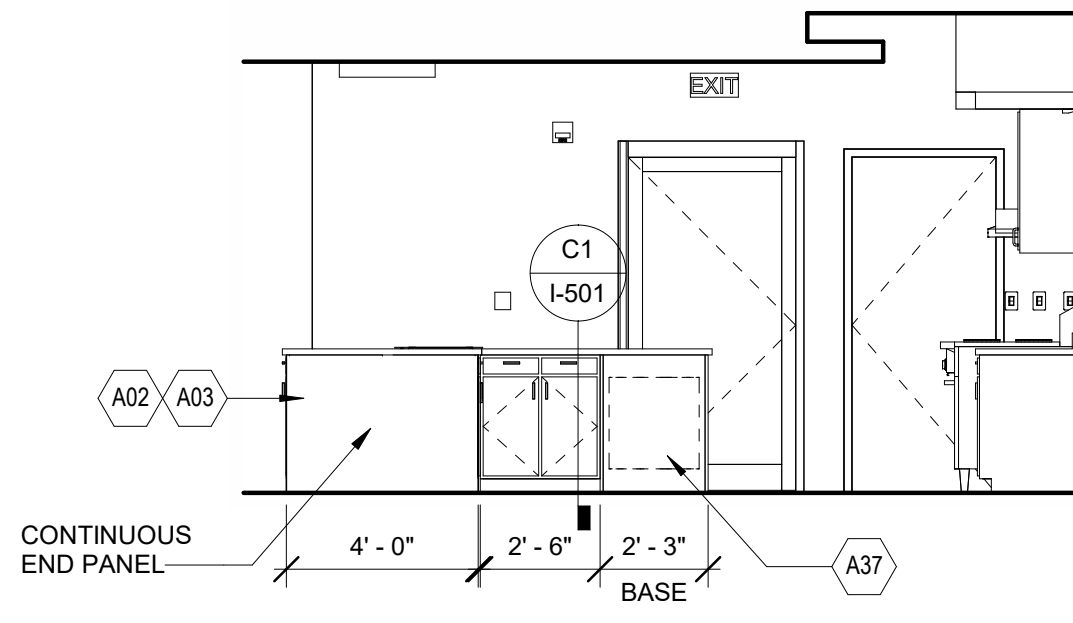
D2 DAY ROOM ELEVATION
1/4" = 1'-0"



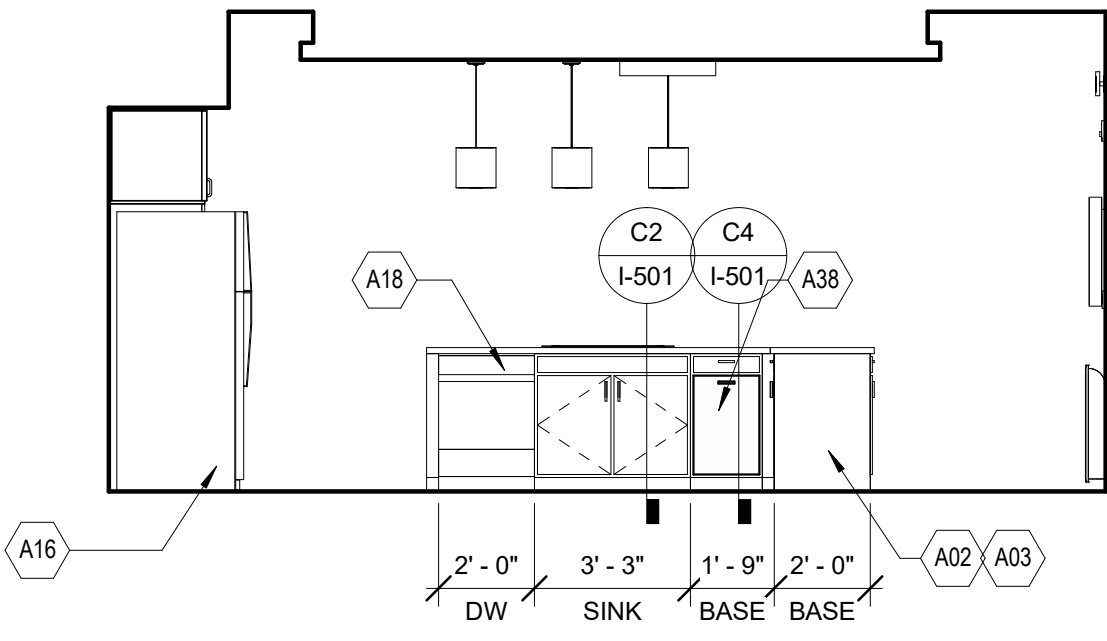
C2 CONF. ROOM EAST ELEVATION
1/4" = 1'-0"



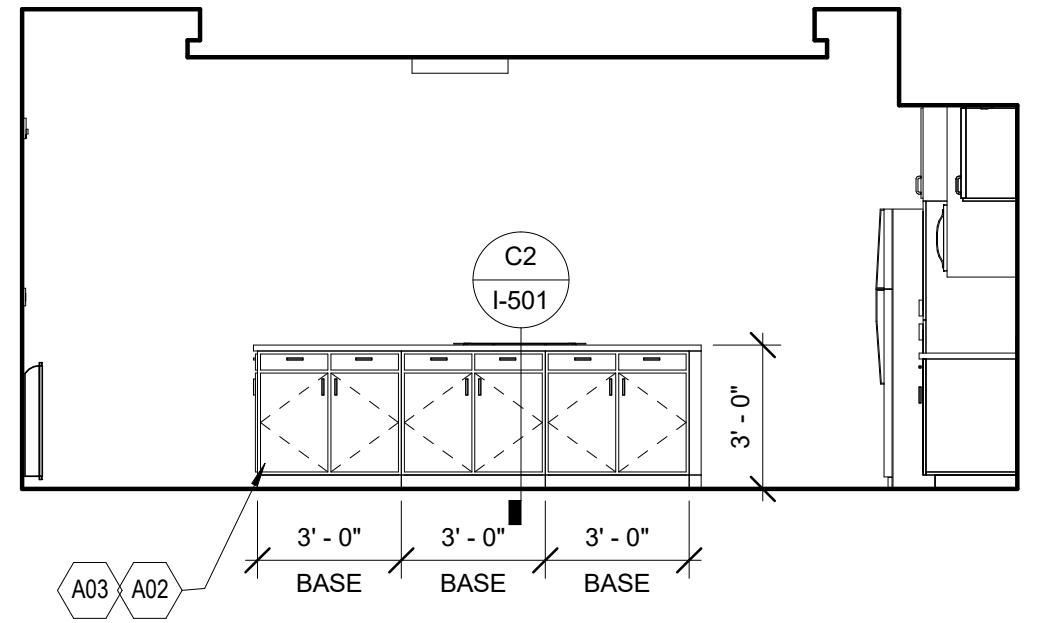
A1 DECON ENLARGED FLOOR PLAN
1/4" = 1'-0"



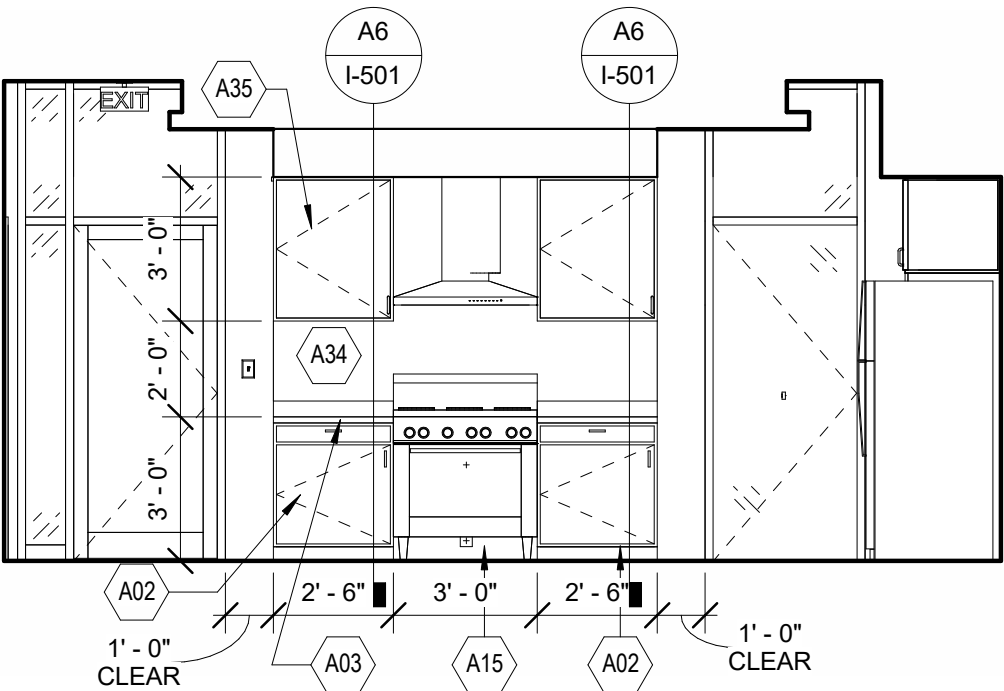
D3 KITCHEN NORTH ELEVATION
1/4" = 1'-0"



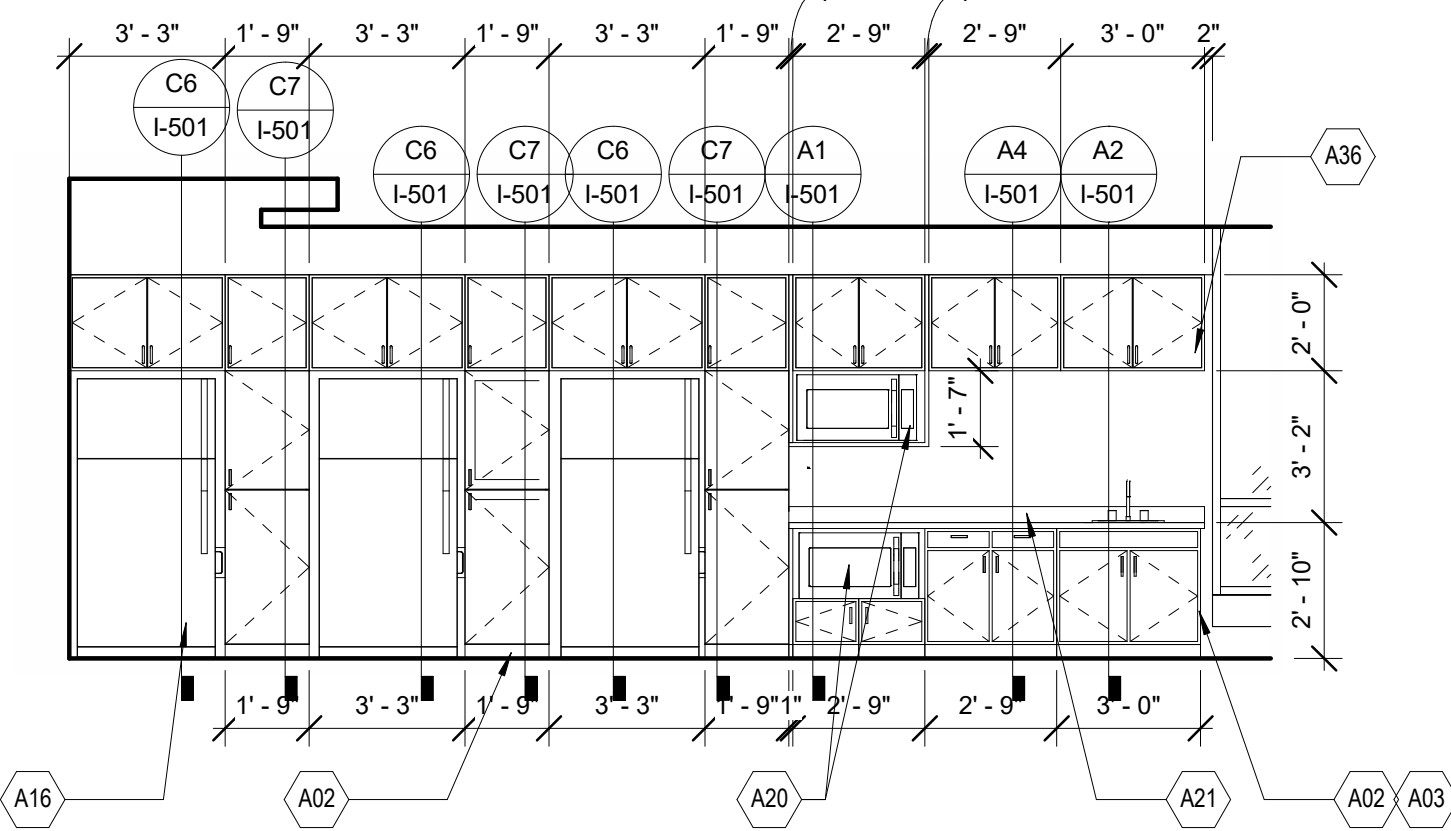
C3 KITCHEN ISLAND EAST ELEVATION
1/4" = 1'-0"



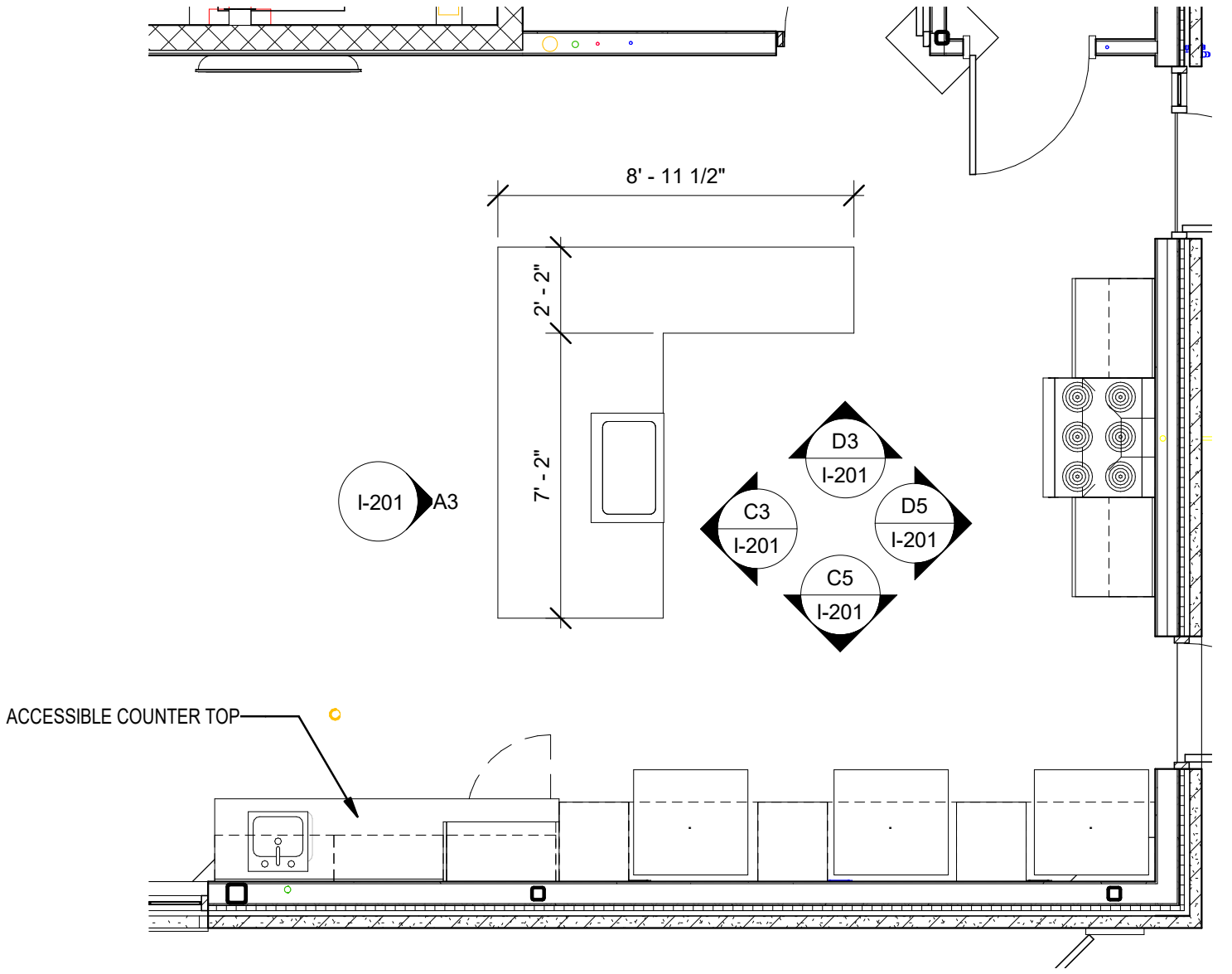
A3 KITCHEN ISLAND WEST ELEVATION
1/4" = 1'-0"



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: HUESSCH MODEL HYND40FNH, OFOI
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
A18	DISHWASHER-OFCI
A20	MICROWAVE - OFOI
A21	COFFEE MAKER - OFOI
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, OFOI
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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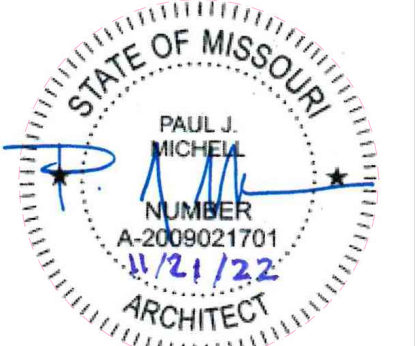
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LEE'S SUMMIT, MISSOURI 64064

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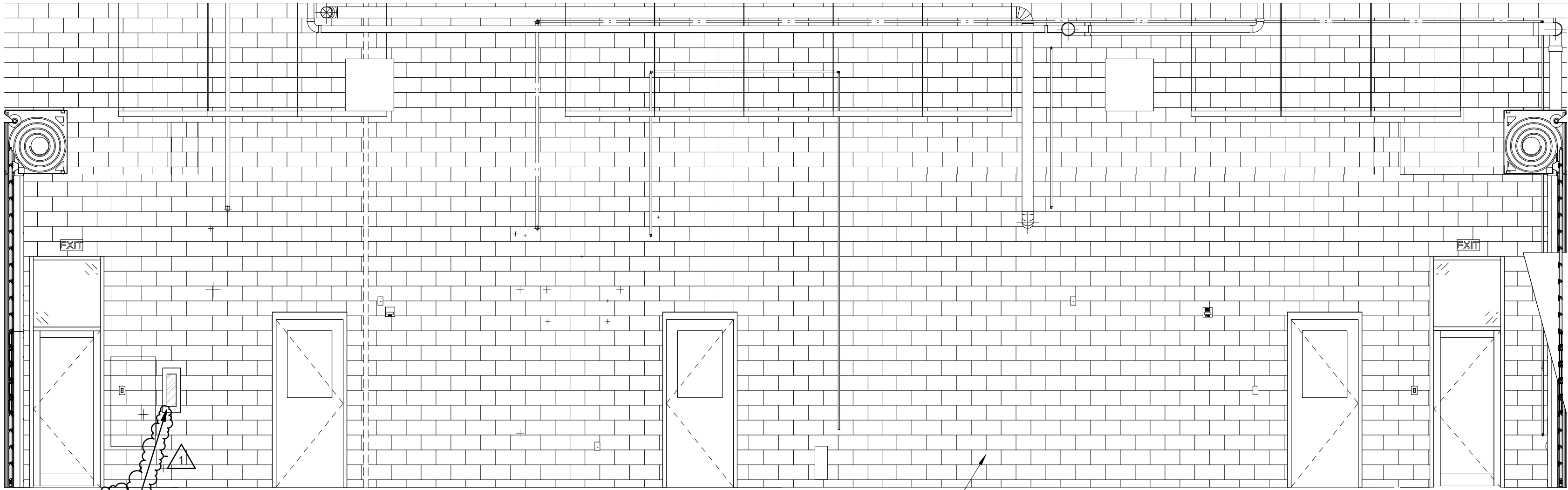
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**INTERIOR
DESIGN
ELEVATIONS**

I-201

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

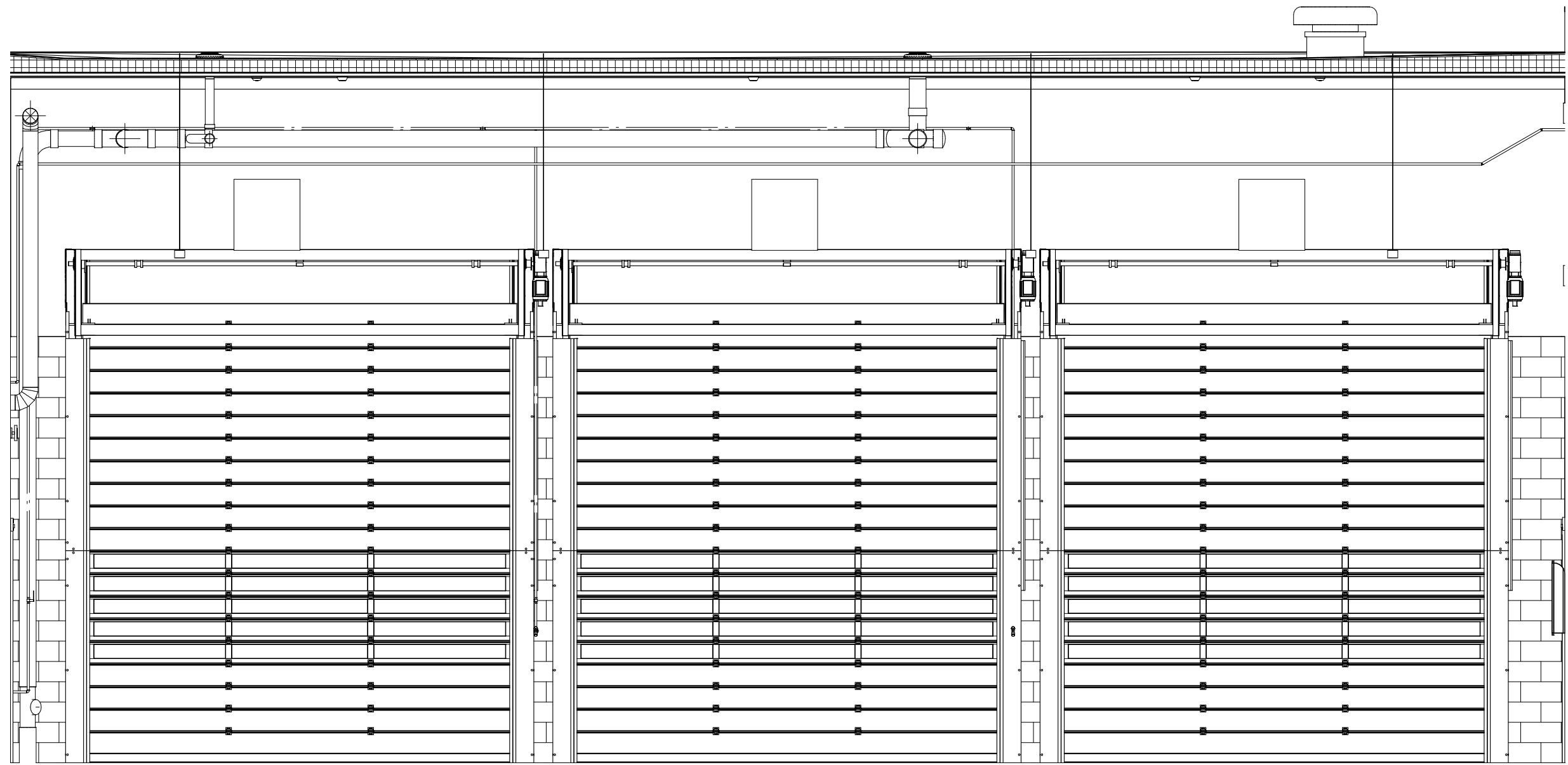


D2 APPARATUS BAY NORTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

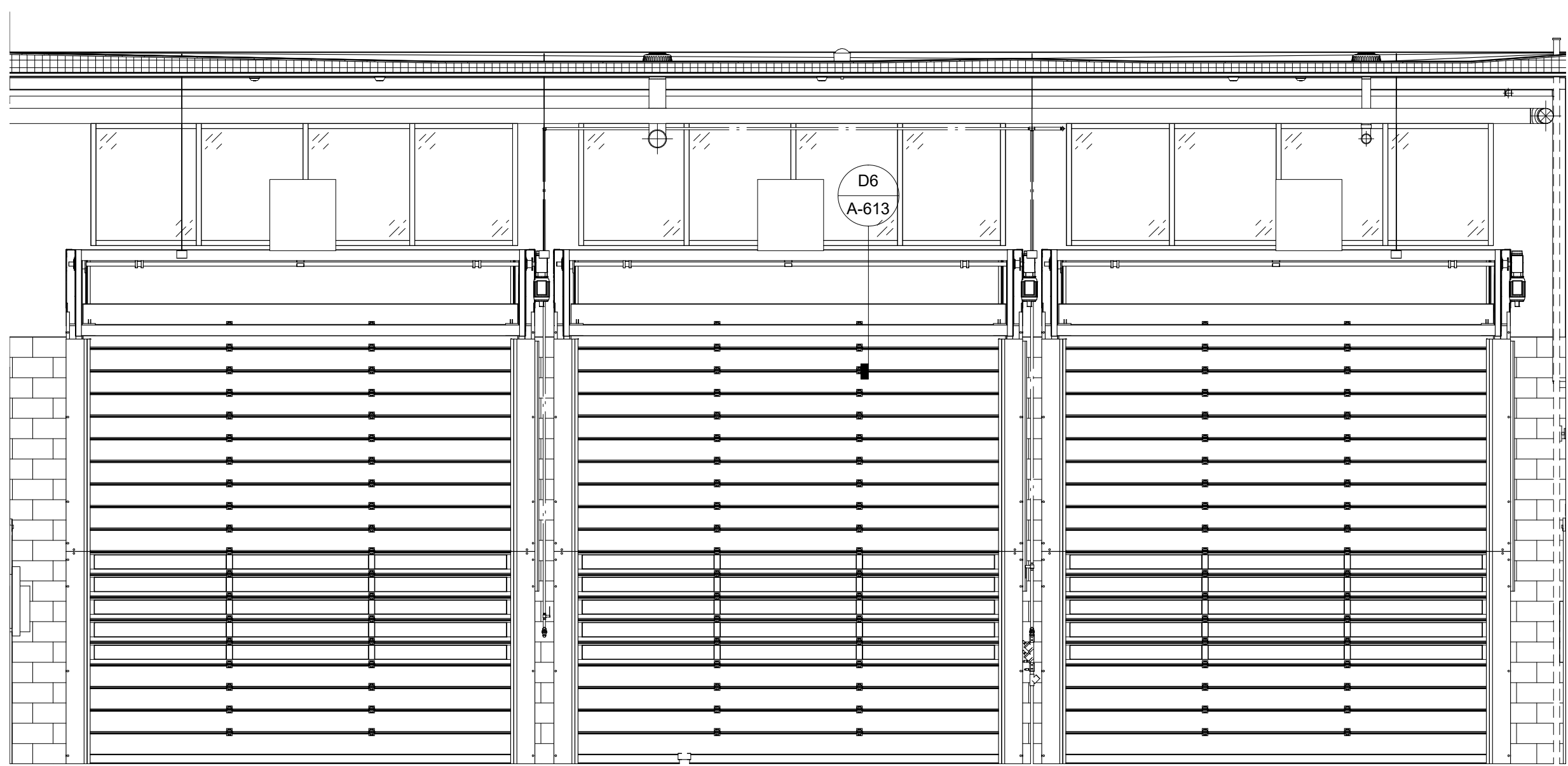
P-2 ACCENT COLOR



B1 APPARATUS BAY EAST ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

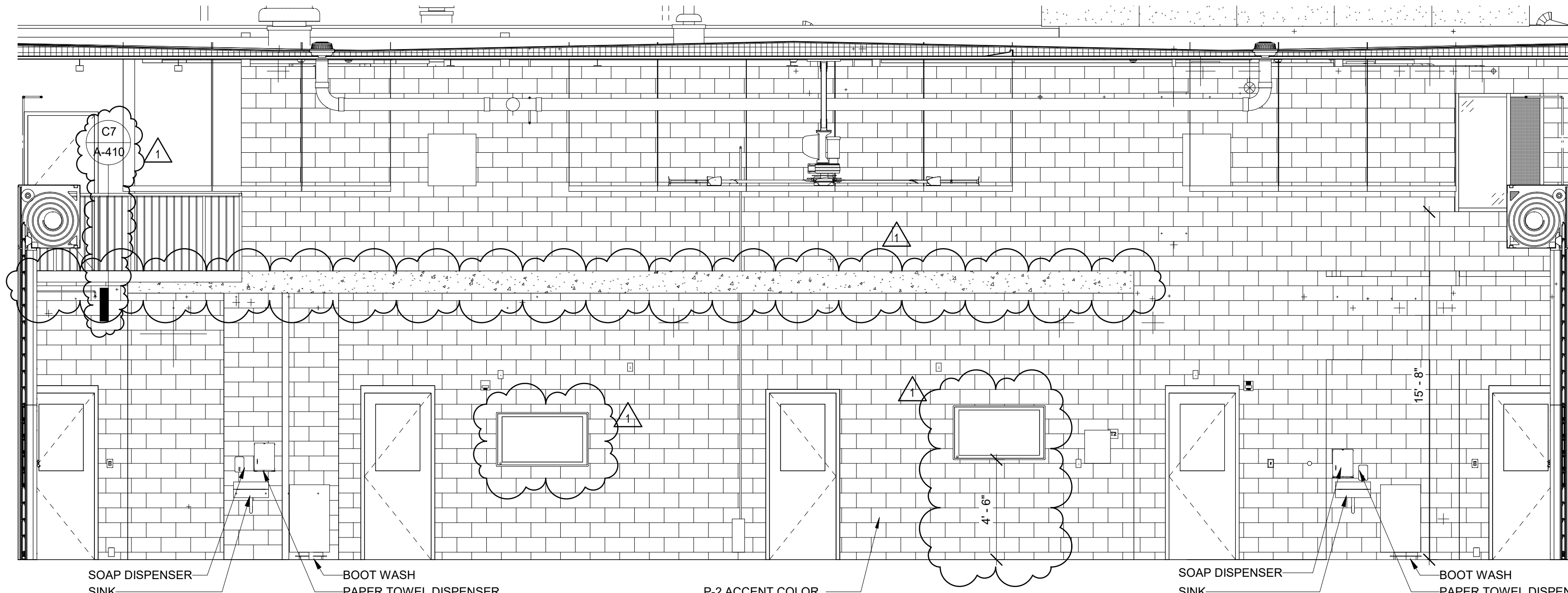


B5 APPARATUS BAY WEST ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

P-2 ACCENT COLOR



A3 APPARATUS BAY SOUTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'



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APPARATUS BAY ELEVATIONS

I-203

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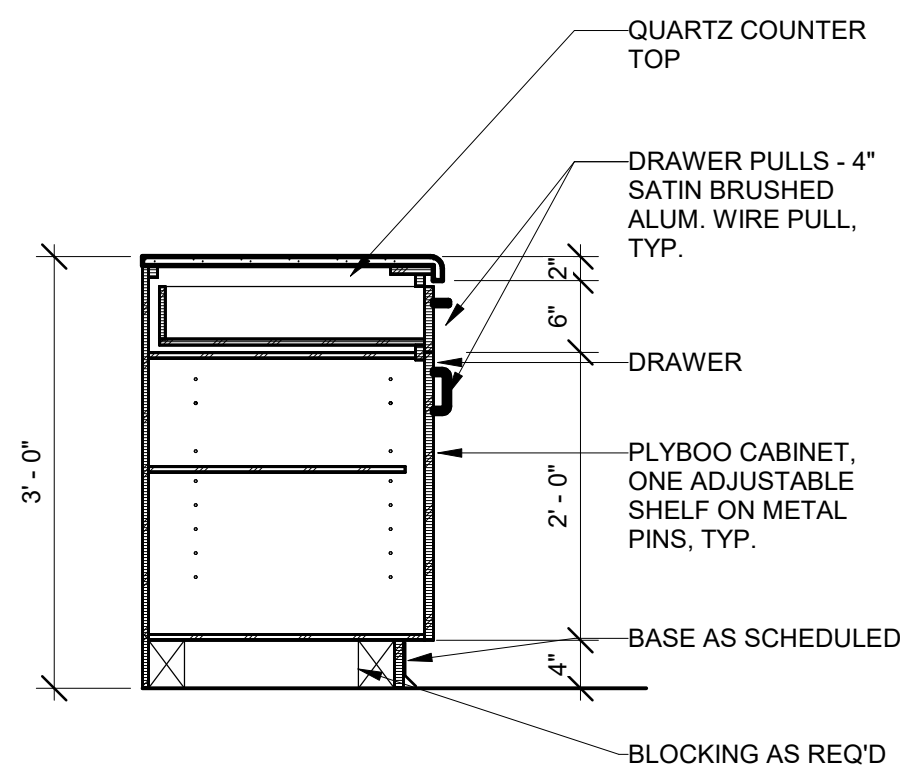
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D

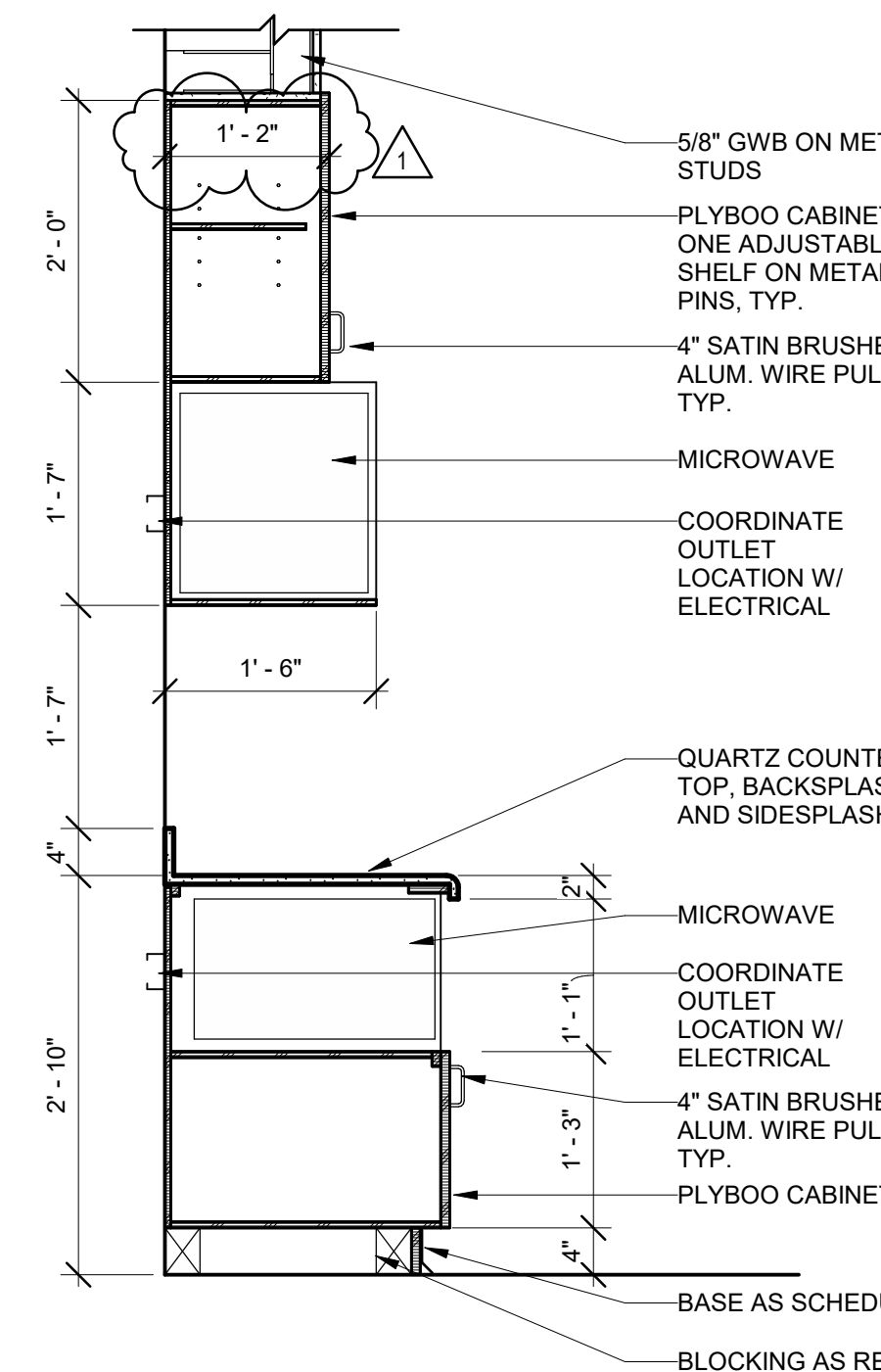
C

B

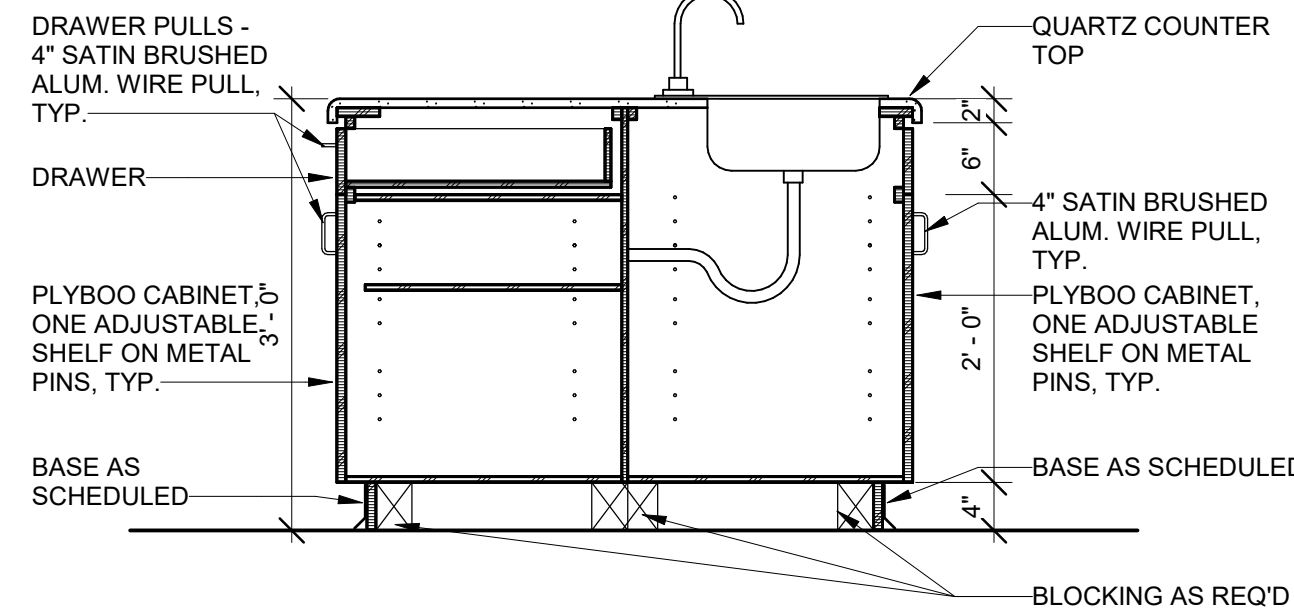
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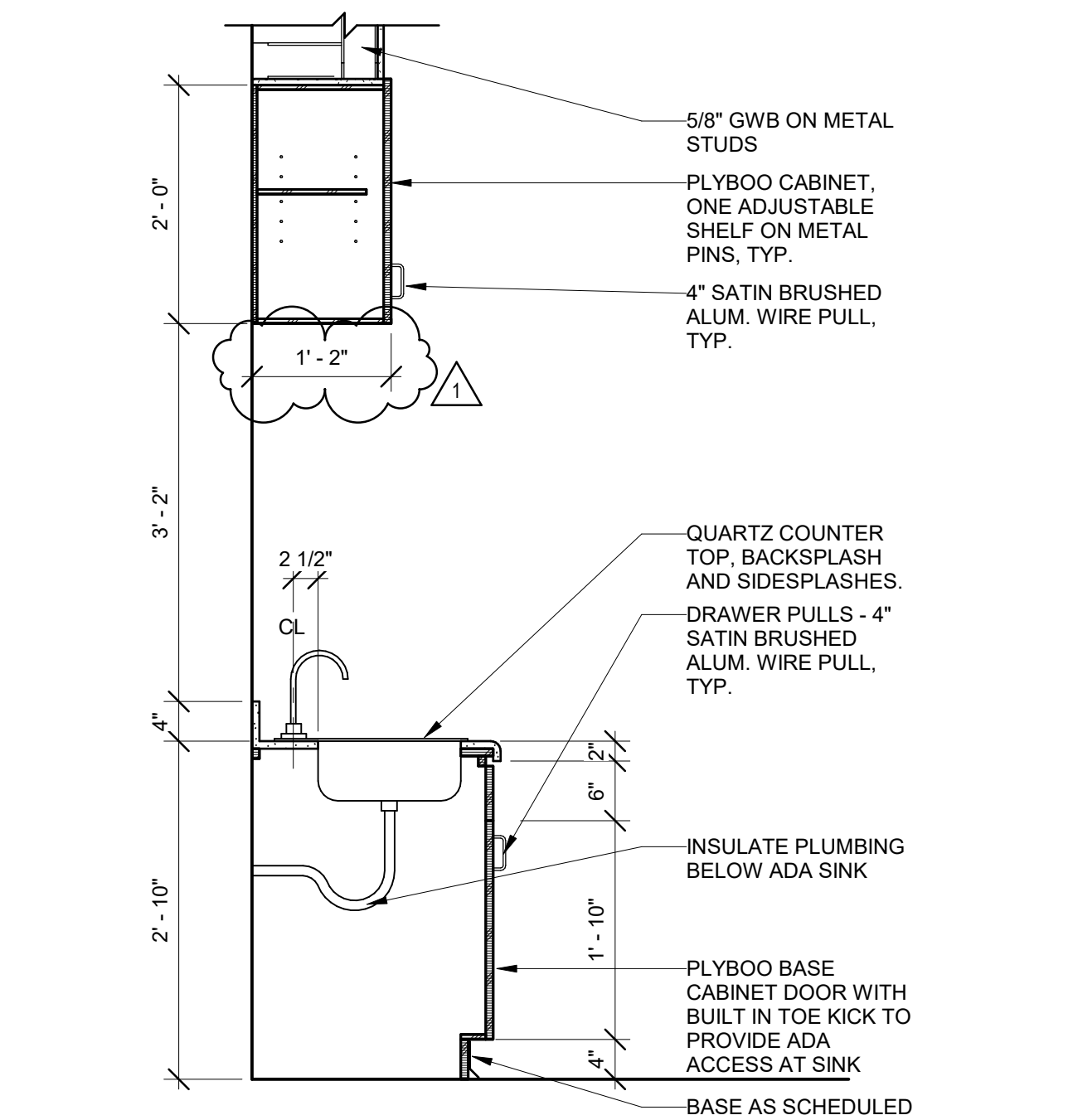
C1 CASEWORK SECTION @ ISLAND



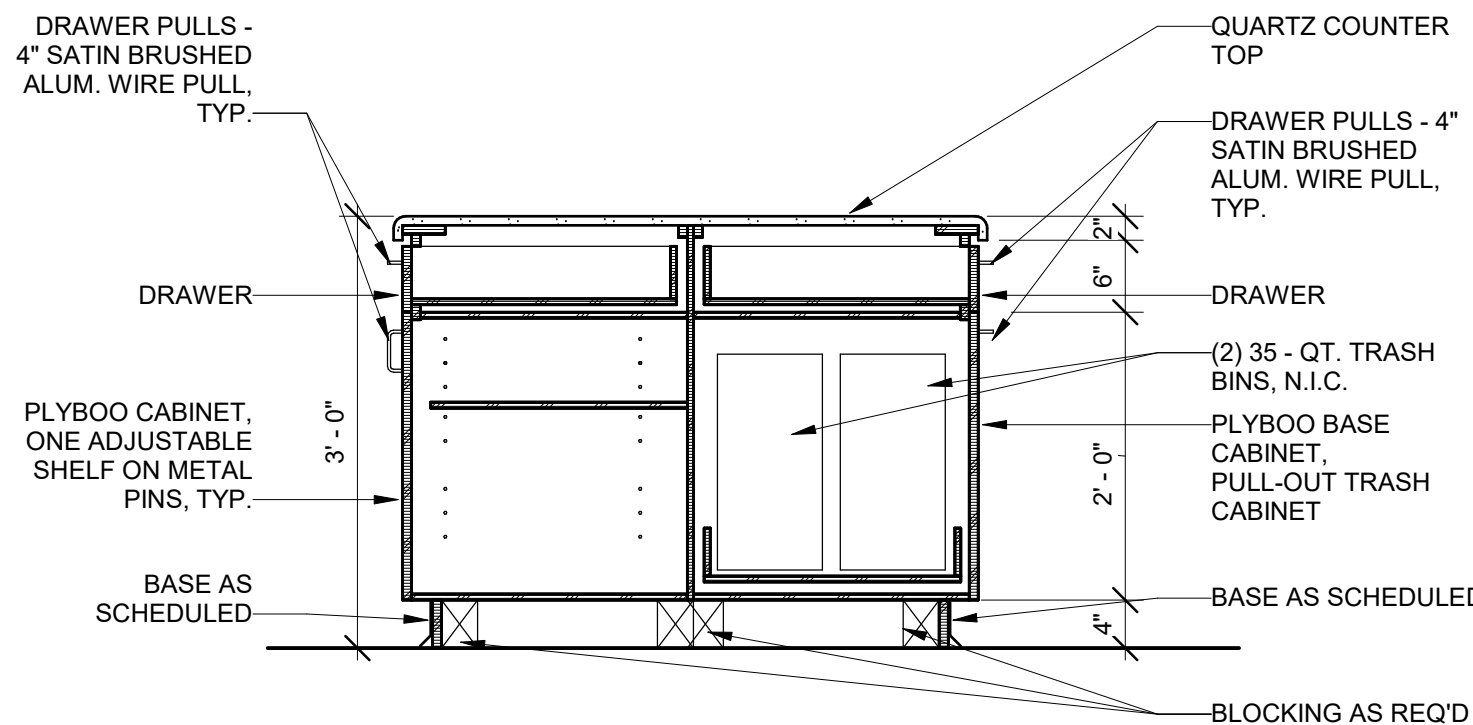
A1 CASEWORK SECTION @ MICROWAVE



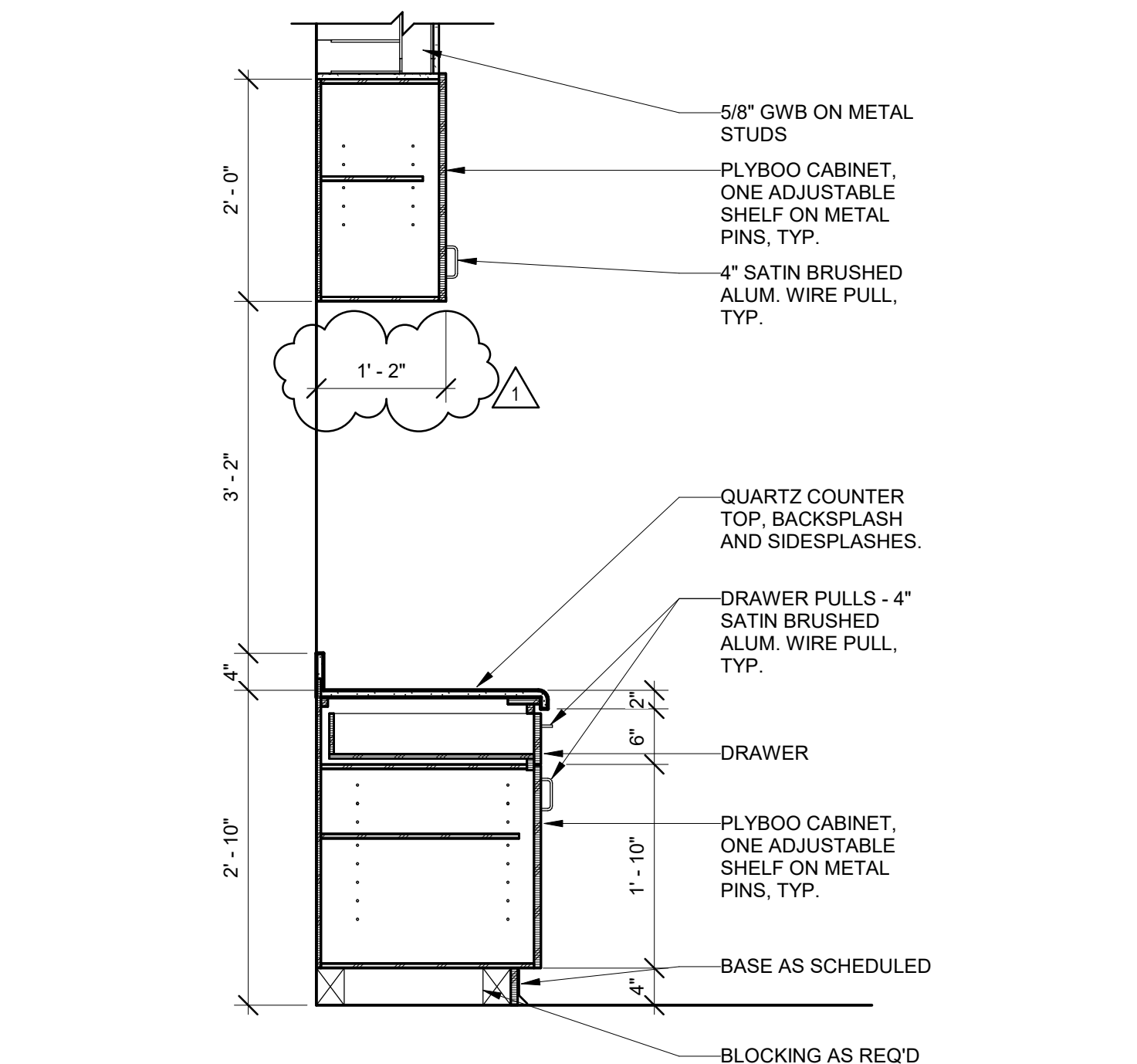
C2 CASEWORK SECTION @ ISLAND SINK



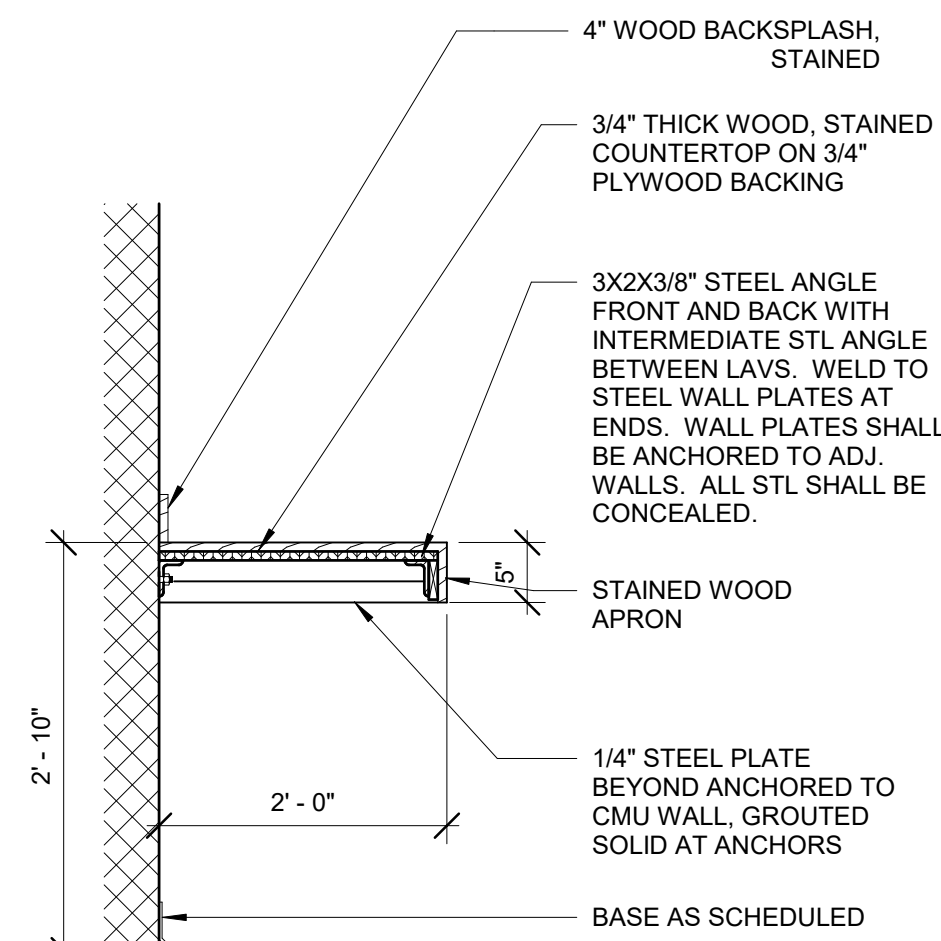
A2 CASEWORK SECTION @ ADA SINK



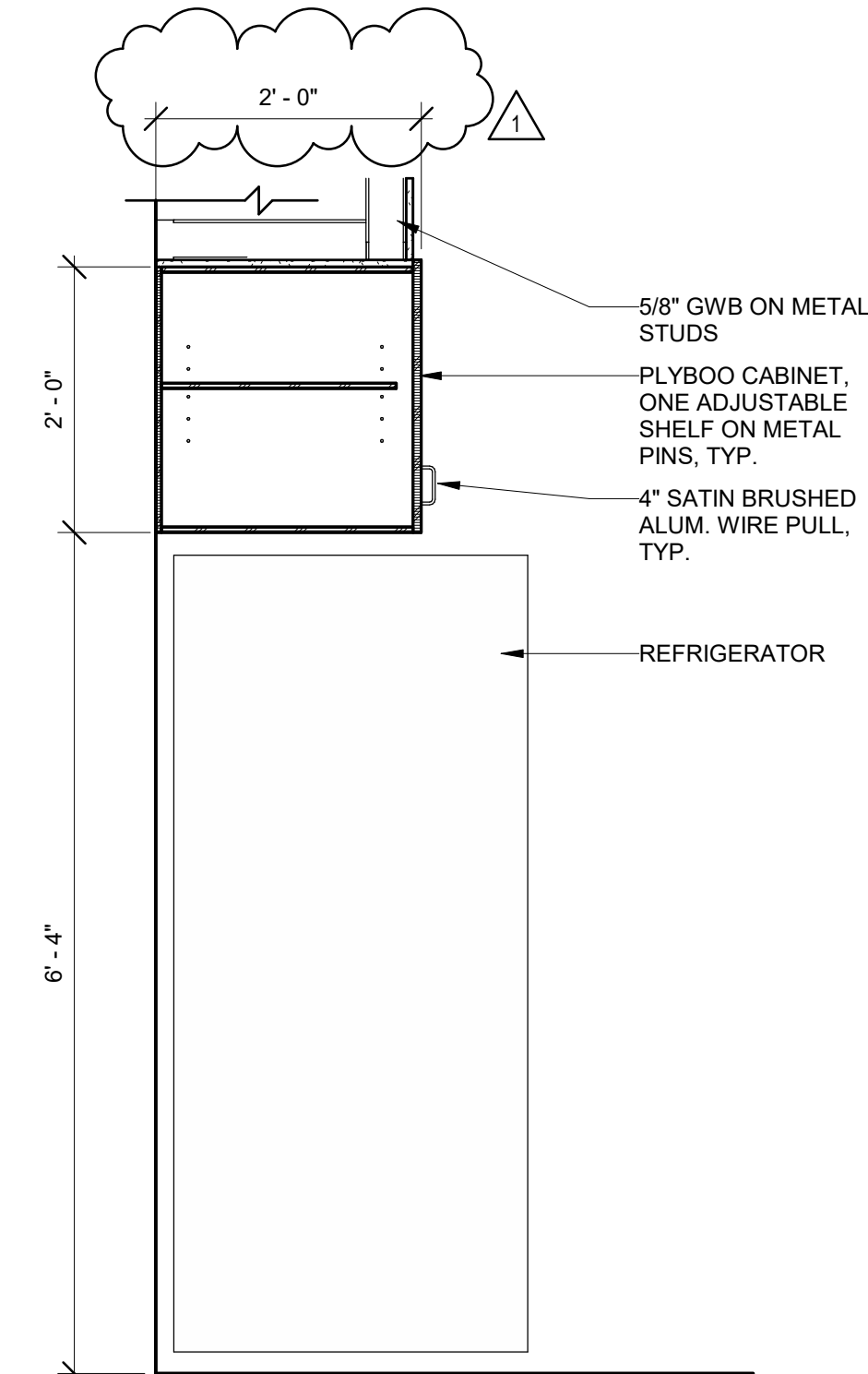
C4 CASEWORK SECTION @ RECYCLING



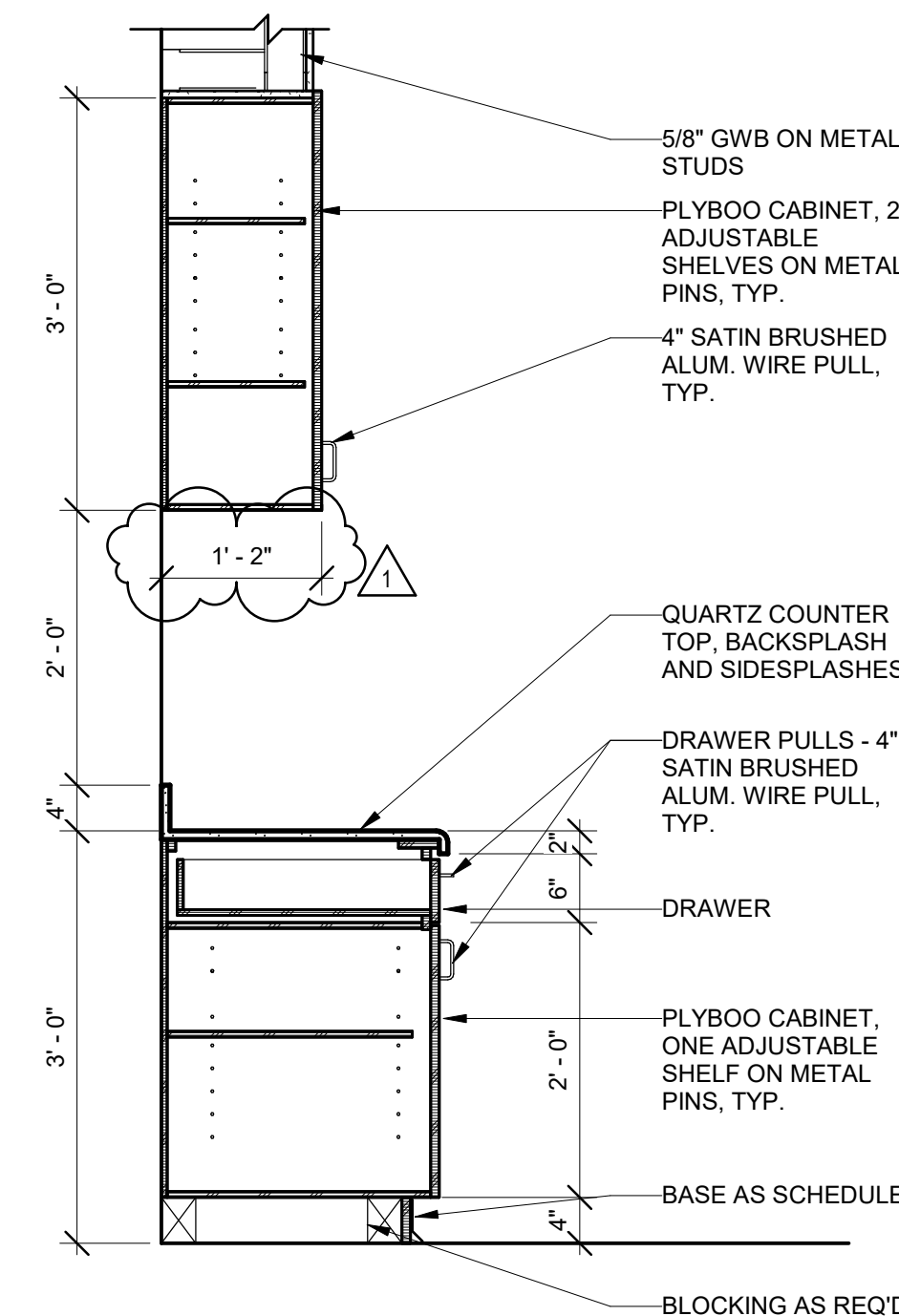
A4 CASEWORK SECTION @ KITCHEN ADA, TYP.



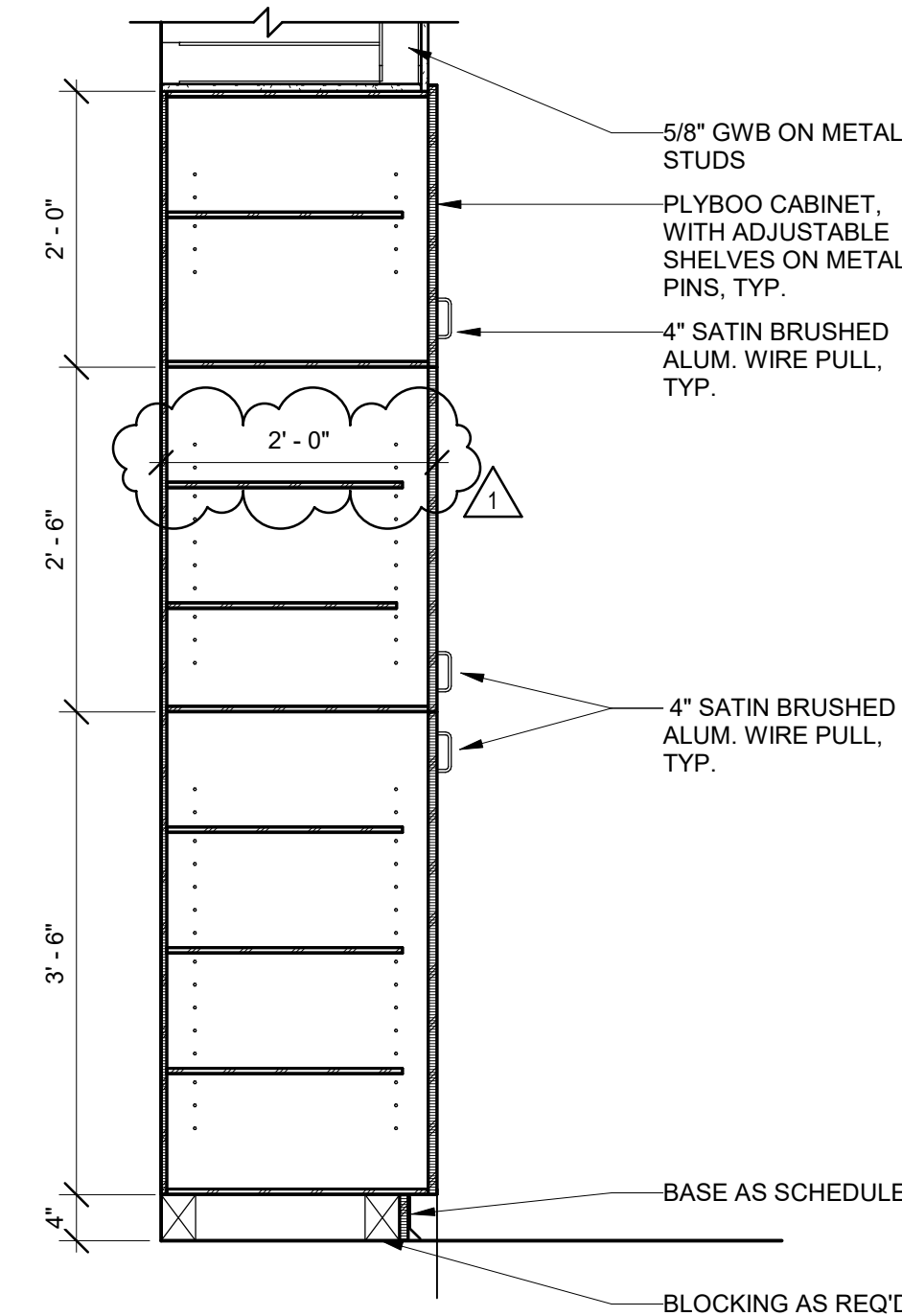
D4 WORKBENCH



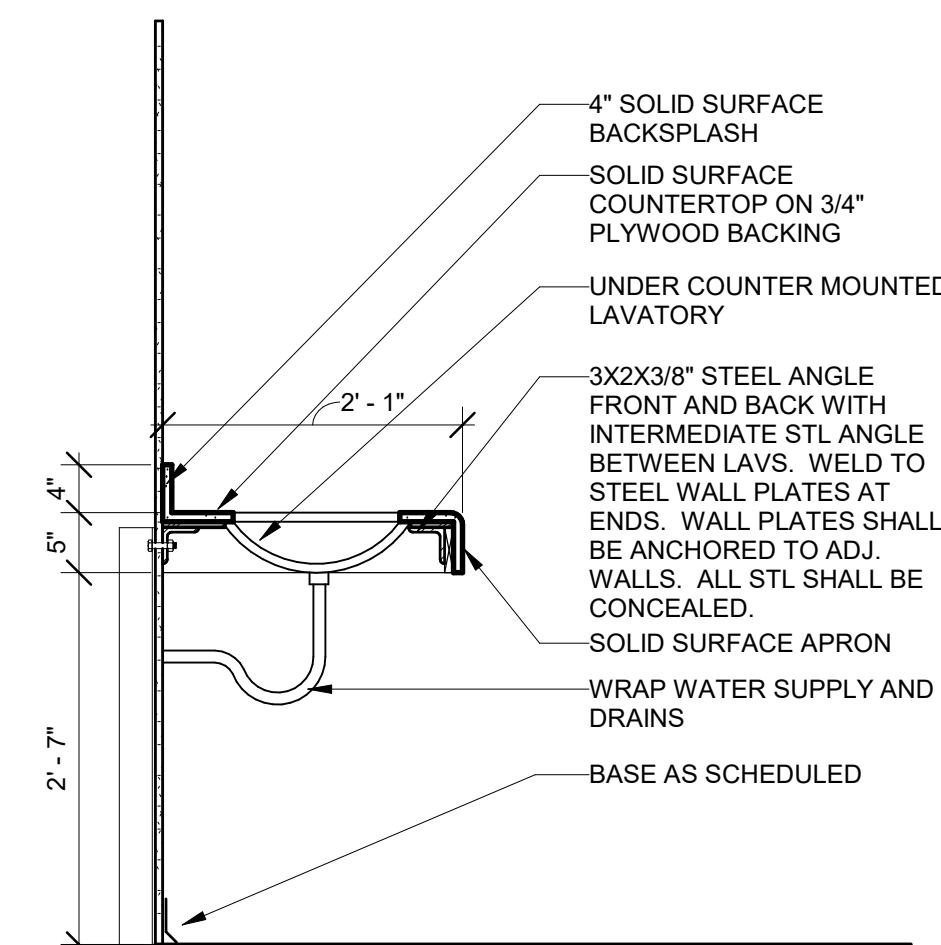
C6 CASEWORK SECTION @ REFRIGERATOR



A6 CASEWORK SECTION @ KITCHEN, TYP.



C7 CASEWORK SECTION @ PANTRY



A7 CASEWORK SECTION @ TOILETS

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CASEWORK SECTIONS

I-501

FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5/LSMO FireStations MEP V19.rvt

E

D

C

B

A

PLAN NOTES:



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LEE'S SUMMIT, MISSOURI 64064

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REVISIONS:		
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MO# PE-2007023868

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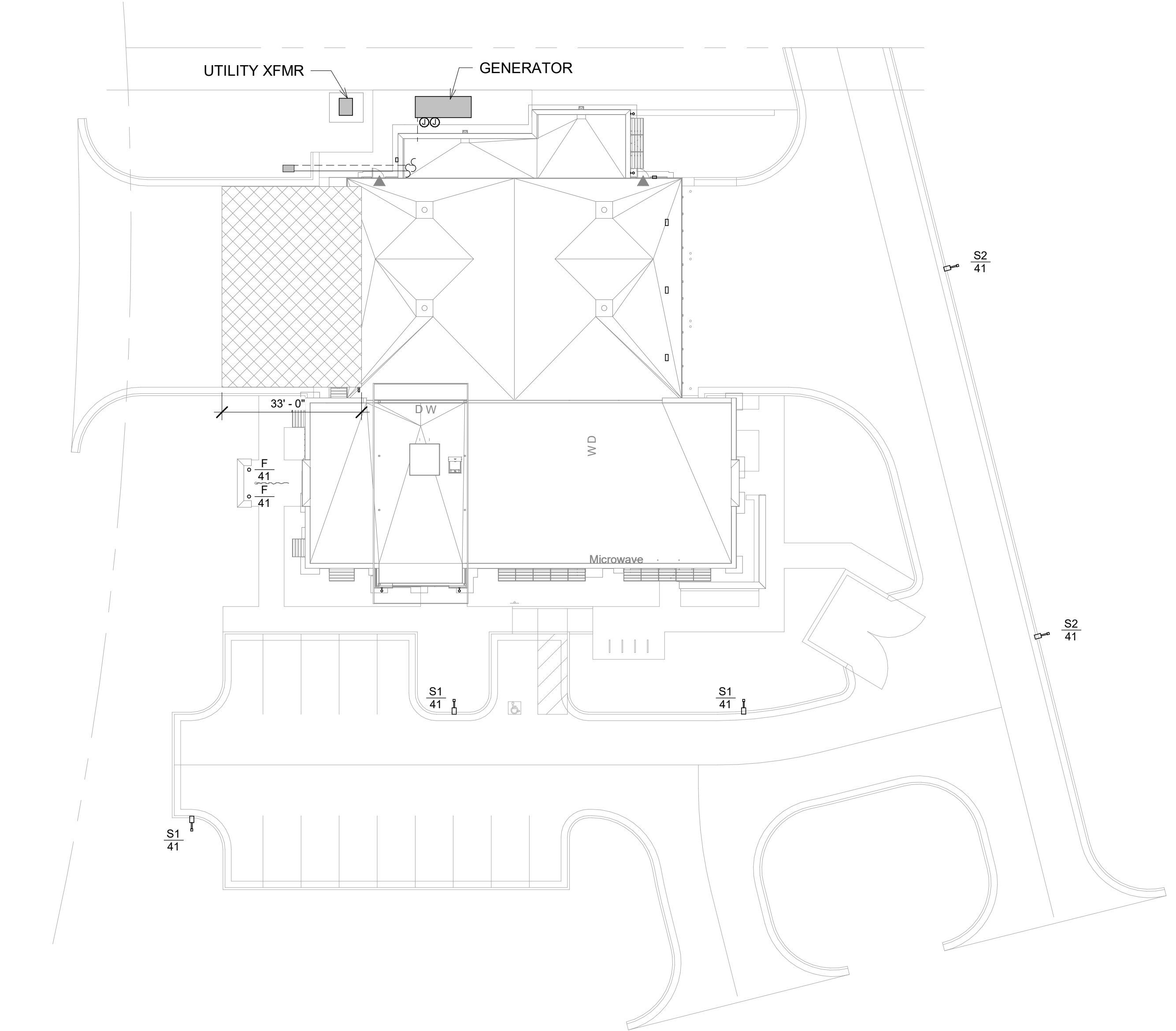
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DATE:	10.19.2022
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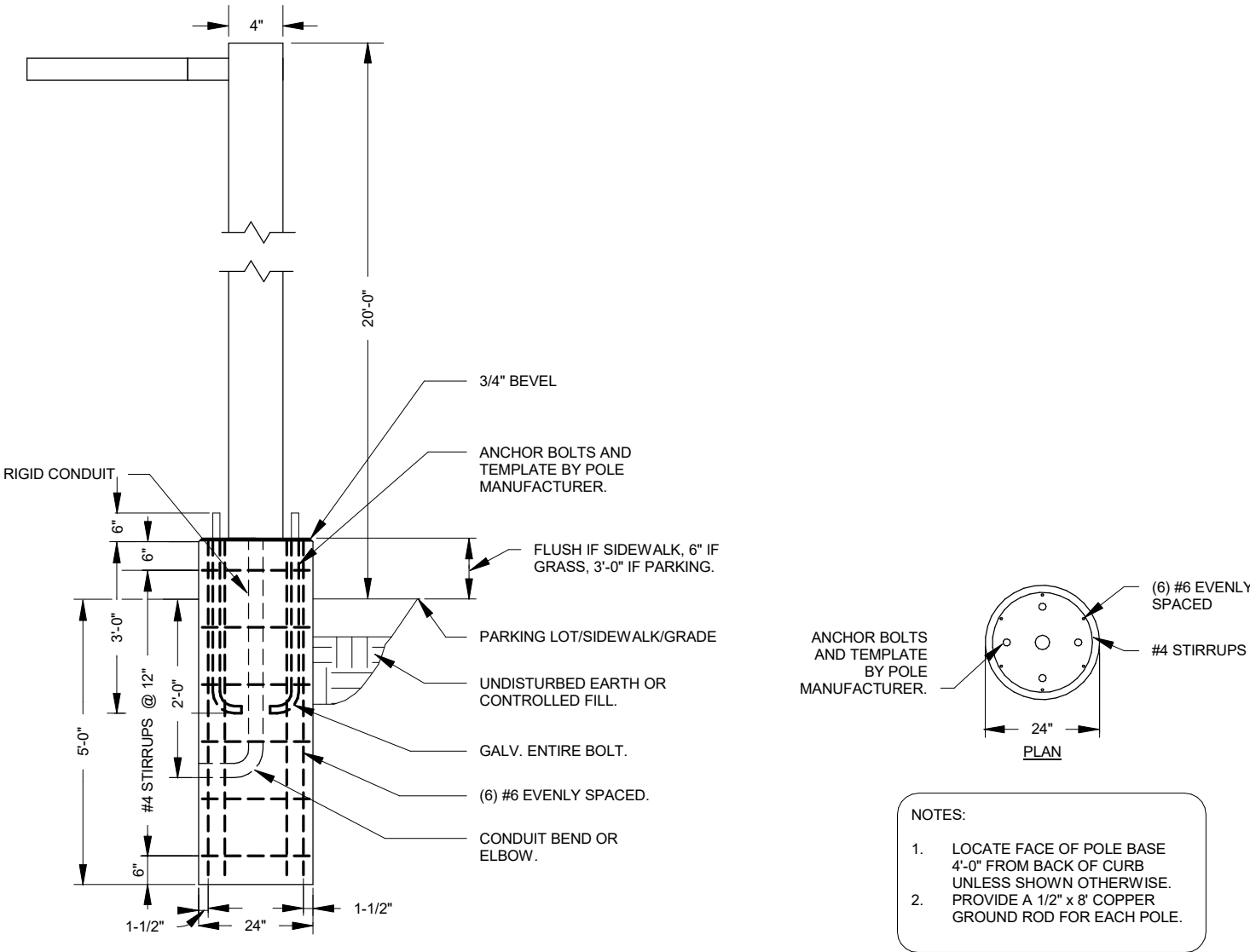
MPE SITE PLAN

ME001

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A1 MPE SITE PLAN
1" = 20'-0"
0 10' 20' 40'



A6 POLE BASE DETAIL
NOT TO SCALE

FILE PATH: BM 380-118225R21001_LeesSummitFireStation_#4 and #5LSMO FIRE STATIONS MEP_V19.rvt

E

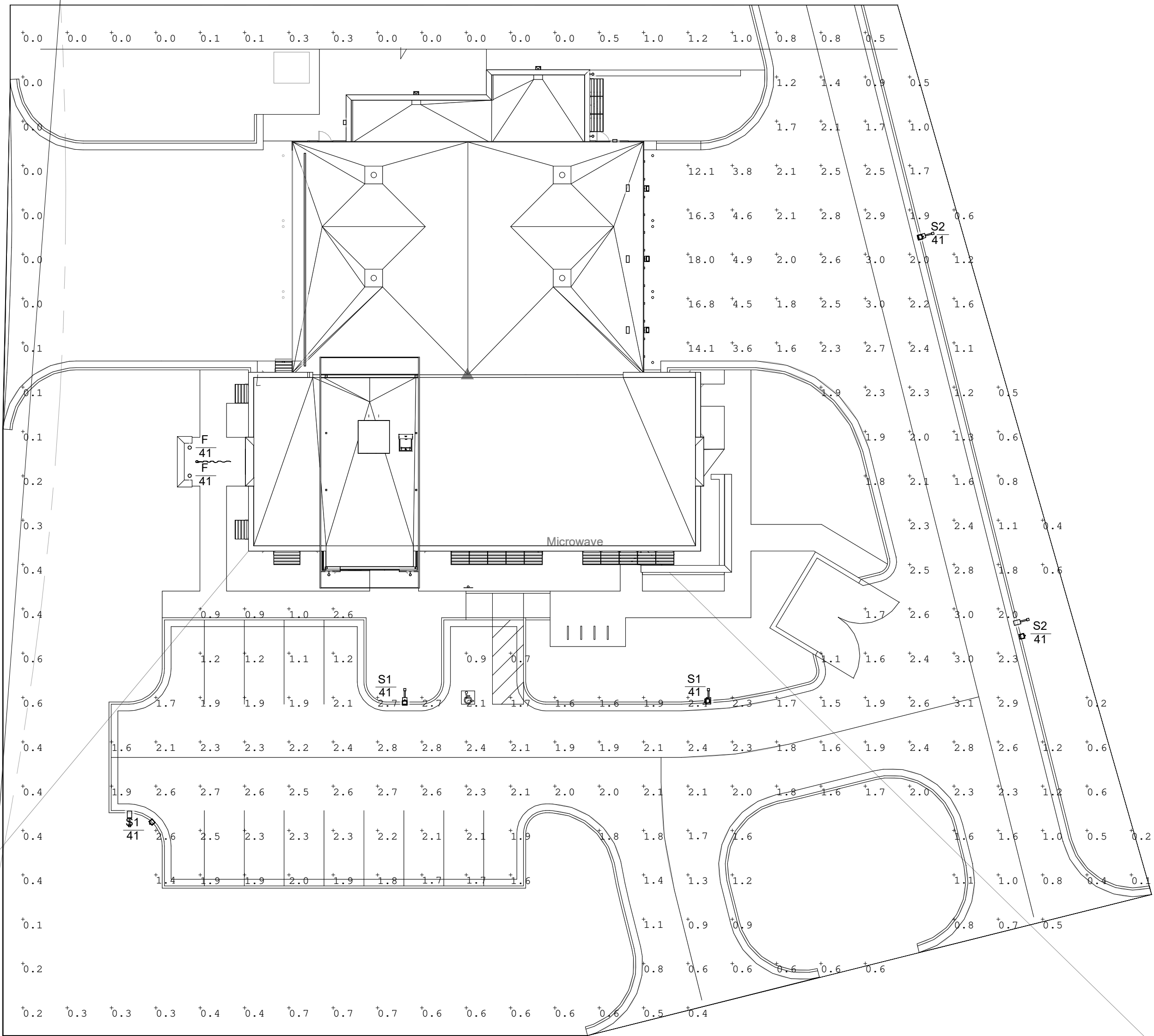
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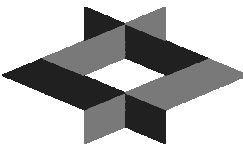
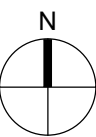
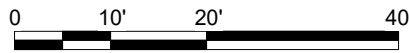
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Ground_Top	Illuminance	Fc	1.78	17.3	0.0	N.A.	N.A.



A1

SITE LIGHTING PHOTOMETRIC PLAN

1" = 20'-0"



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**SITE LIGHTING
PHOTOMETRIC
PLAN**

ME002

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LIGHT FIXTURE SCHEDULE

FIXTURE TAG	MANUFACTURER	MODEL	LIGHT SOURCE				DIMMING TYPE	MOUNTING TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
			TYPE	LUMENS	COLOR TEMP	CRI							
F	VISTA LIGHTING	1188-B-NS-35-C-MV-CX-ND-B34	LED	3000	3000 K	85	--	IN-GRADE	120	37	41	CAST-IN PLACE IN-GRADE LIQUID TIGHT FLAGPOLE FIXTURE	2,4,7
S1	LITHONIA	DSX1 LED P4 30K T4M MVOLT	LED	13165	3000 K	80	--	POLE	120	125	139	POLE MOUNTED SITE LIGHTING FIXTURE	2,10
S2	LITHONIA	DSX1 LED P4 30K T4M MVOLT HS	LED	13165	3000 K	80	--	POLE	120	125	139	POLE MOUNTED SITE LIGHTING WITH BACKLIGHT SHIELD FIXTURE	2,10
WL	MICROLINEA	ML3WLASY-D-CO(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

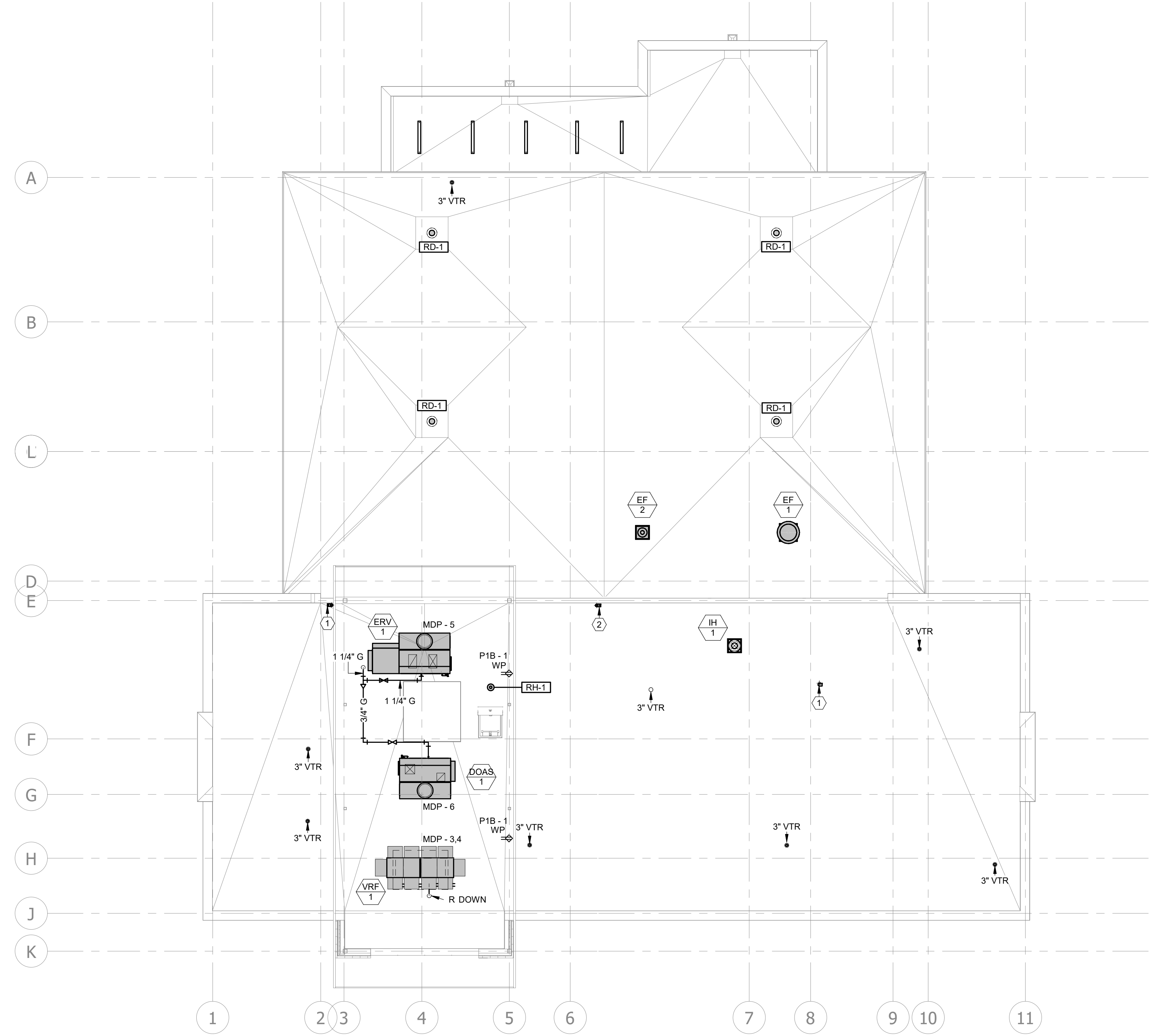
NOTES:

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 8'-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.
10. POLE MOUNT FIXTURE AT 25'-0" ABOVE GRADE.

GENERAL NOTES:

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

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MPE ROOF PLAN

ME101

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E

D

C

B

A

HVAC MASTER SYMBOLS LEGEND		
STANDARD MOUNTING HEIGHTS	PIPE FITTINGS AND VALVES	DUCTWORK
CONTROLS (TOP OF DEVICE) 48" AFF	SHUT-OFF VALVE CHECK VALVE SHUT-OFF VALVE TRIPLE DUTY VALVE SOLENOID VALVE STRAINER STRAINER WITH BLOWOFF TWO-WAY CONTROL VALVE TWO-WAY CONTROL VALVE PRESSURE REDUCING VALVE PRESSURE GAUGE THERMOMETER BACKFLOW PREVENTER EXPANSION JOINT PIPE ANCHOR UNION REDUCER CAP ELBOW UP ELBOW DOWN TEE UP TEE DOWN SIAMESE CONNECTION	EQUIPMENT WITH FLEXIBLE DUCT CONNECTION SUPPLY AIR DUCT UP RETURN / EXHAUST AIR DUCT UP SUPPLY AIR DUCT DOWN RETURN / EXHAUST AIR DUCT DOWN FLEXIBLE DUCT ELBOW WITH TURNING VEINS MANUAL BALANCE DAMPER MOTORIZED DAMPER CONTROL DAMPER RELIEF DAMPER BACKDRAFT DAMPER FIRE DAMPER SMOKE DAMPER FIRE / SMOKE DAMPER SPIN-IN BRANCH DUCT CONNECTOR - WITH DAMPER IF SHOWN HIGH EFFICIENCY BRANCH DUCT CONNECTOR - WITH DAMPER IF SHOWN DUCT MOUNTED GRILLE / WALL GRILLE SUPPLY AIR DIFFUSER RETURN AIR DIFFUSER LINEAR SLOT DIFFUSER DIFFUSER, GRILLE, OR REGISTER TYPE CFM CONNECTION SIZE
DEFAULT MOUNTING HEIGHTS SHOWN ABOVE TO BE USED UNLESS NOTED OTHERWISE BY ARCHITECT OR IN CONSTRUCTION DOCUMENTS. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.		
ANNOTATIONS		
INDICATES CONNECTION TO EXISTING SYSTEM INDICATES DEMO FROM EXISTING SYSTEM PLAN NOTE REFERENCE 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 PLUMBING EQUIPMENT DESIGNATION		
ABBREVIATIONS		
A/C AIR CONDITIONING AFF ABOVE FINISHED CEILING 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 BTUH BRITISH THERMAL UNITS PER HOUR CAV CONSTANT AIR VOLUME CFH CUBIC FEET PER HOUR CFM CUBIC FEET PER MINUTE CH CHILLER CO CARBON MONOXIDE CO2 CARBON DIOXIDE CT COOLING TOWER CU CONDENSING UNIT CUH CABINET UNIT HEATER DDC DIRECT DIGITAL CONTROL DX DIRECT EXPANSION EA EXHAUST AIR EAT ENTERING AIR TEMPERATURE EDB ENTERING DRY BULB EF EXHAUST FAN EJ EXPANSION JOINT ESP EXTERNAL STATIC PRESSURE ETR EXISTING TO REMAIN EWB ENTERING WET BULB FCU FAN COIL UNIT FTU FAN TERMINAL UNIT GC GENERAL CONTRACTOR HD HEAD HP HEAT PUMP HSTAT HUMIDISTAT HTG HEATING HTR HEATER IN. WC INCHES OF WATER COLUMN LAT LEAVING AIR TEMPERATURE LDB LEAVING DRY BULB LWB LEAVING WET BULB LWT LEAVING WATER TEMPERATURE MAU MAKE-UP AIR UNIT MBH 1000 BTU PER HOUR MC MECHANICAL CONTRACTOR NC NOISE CRITERIA N/O, N/C NORMALLY OPEN, NORMALLY CLOSED OA OUTSIDE AIR PD PRESSURE DROP (FEET OF WATER) RA RETURN AIR RF RETURN FAN RH RELATIVE HUMIDITY RTU ROOFTOP UNIT SA SUPPLY AIR SF SUPPLY FAN SP STATIC PRESSURE STC SOUND TRANSMISSION CLASS TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT TU TERMINAL UNIT UH UNIT HEATER UL UNDEWRITERS LABORATORIES, INC. UNO UNLESS NOTED OTHERWISE VAV VARIABLE AIR VOLUME VD VOLUME DAMPER VFD VARIABLE FREQUENCY DRIVE VRF VARIABLE REFRIGERANT FLOW WB WET BULB WC WATER COLUMN WT WEIGHT		
	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	
		THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.

HVAC GENERAL NOTES

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



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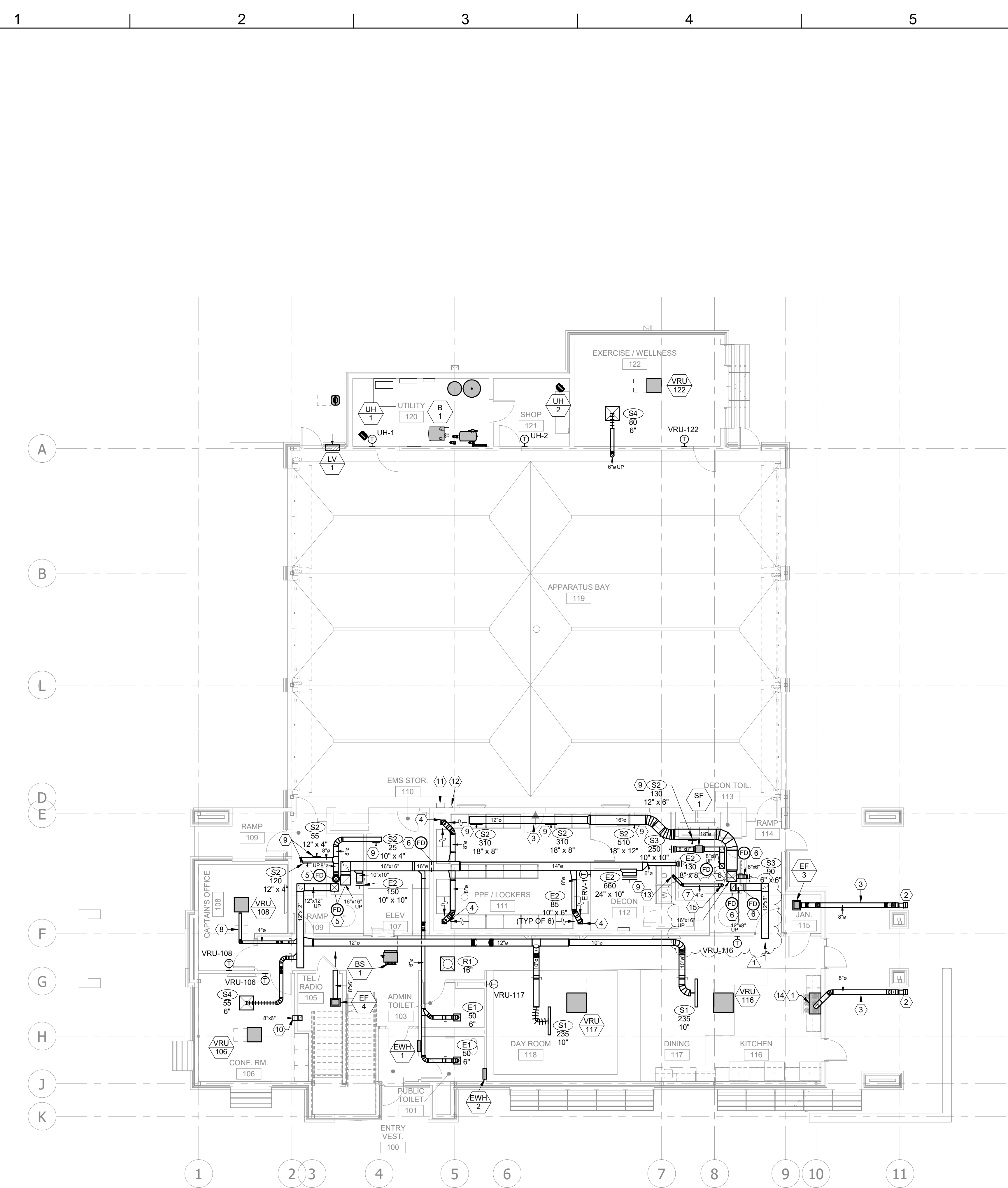
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HVAC SYMBOLS
LEGEND

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 MULTI-GAS SYSTEM CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER AND MANUFACTURERS RECOMMENDATIONS. REFER TO SPECS.
 - 13 4" DRYER VENT.
 - 14 PROVIDE FIRE SUPPRESSION SYSTEM WITHIN THE RANGE HOOD TYPICAL OF GUARDIAN MODEL #G3008. FURNISH WITH 3-PRONG APPLIANCE SHUTOFF. CONNECTION TO GAS SOLENOID VALVE AND WIRELESS RECEIVER FOR RANGE SHUT DOWN TO BE INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE WITH REMOTE MANUAL PULL STATION AND REMOTE ALARM STROBE ASSEMBLY. PROVIDE WITH PULL STATION FOR REMOTE ACTIVATION TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
 - 15 PROVIDE CYCLONE, OR EQUAL, CWVSO 10X11X10 SHROUD AROUND DRYER DUCT PENETRATION.

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FIRST FLOOR
HVAC PLAN

M101

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



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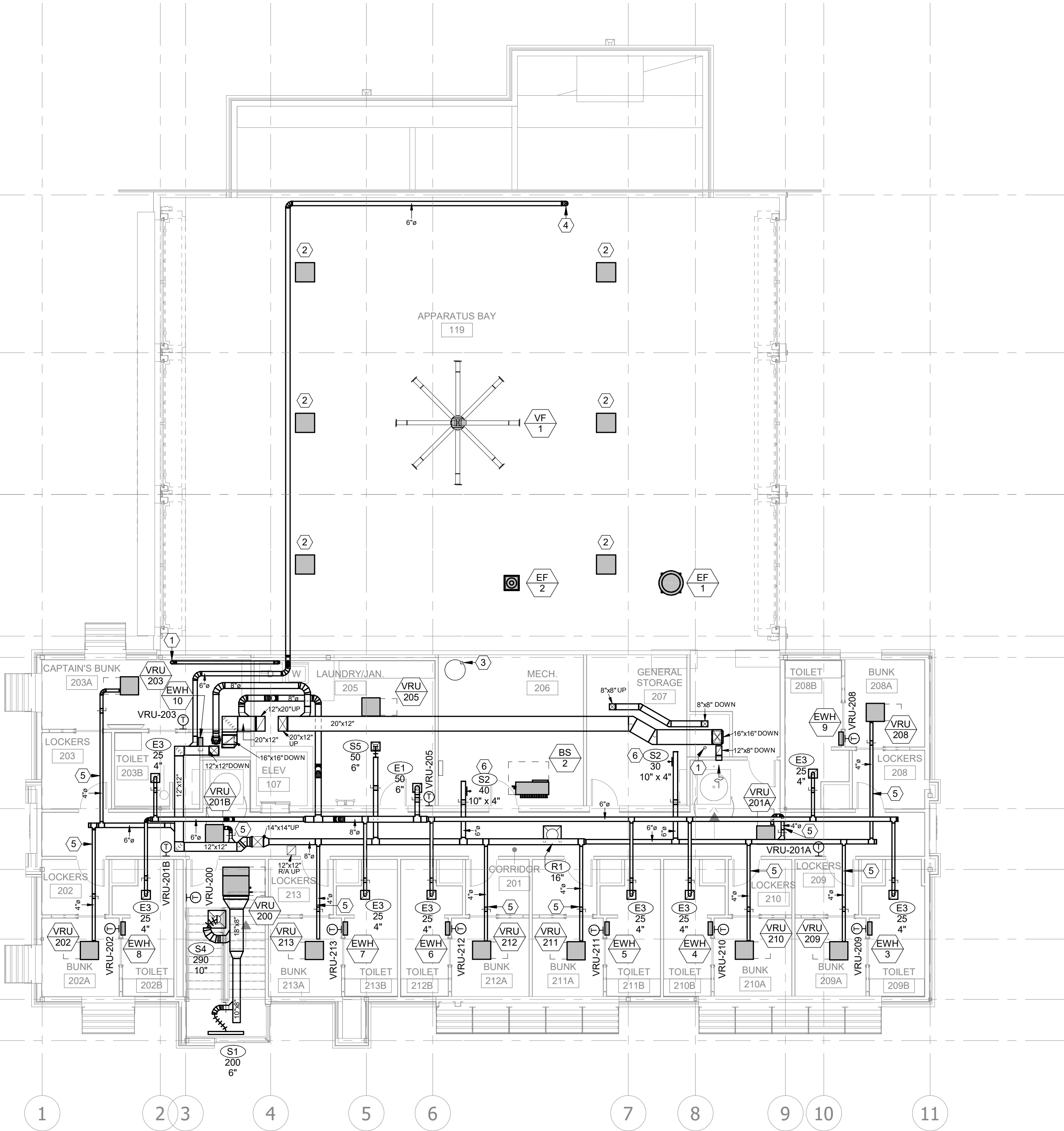
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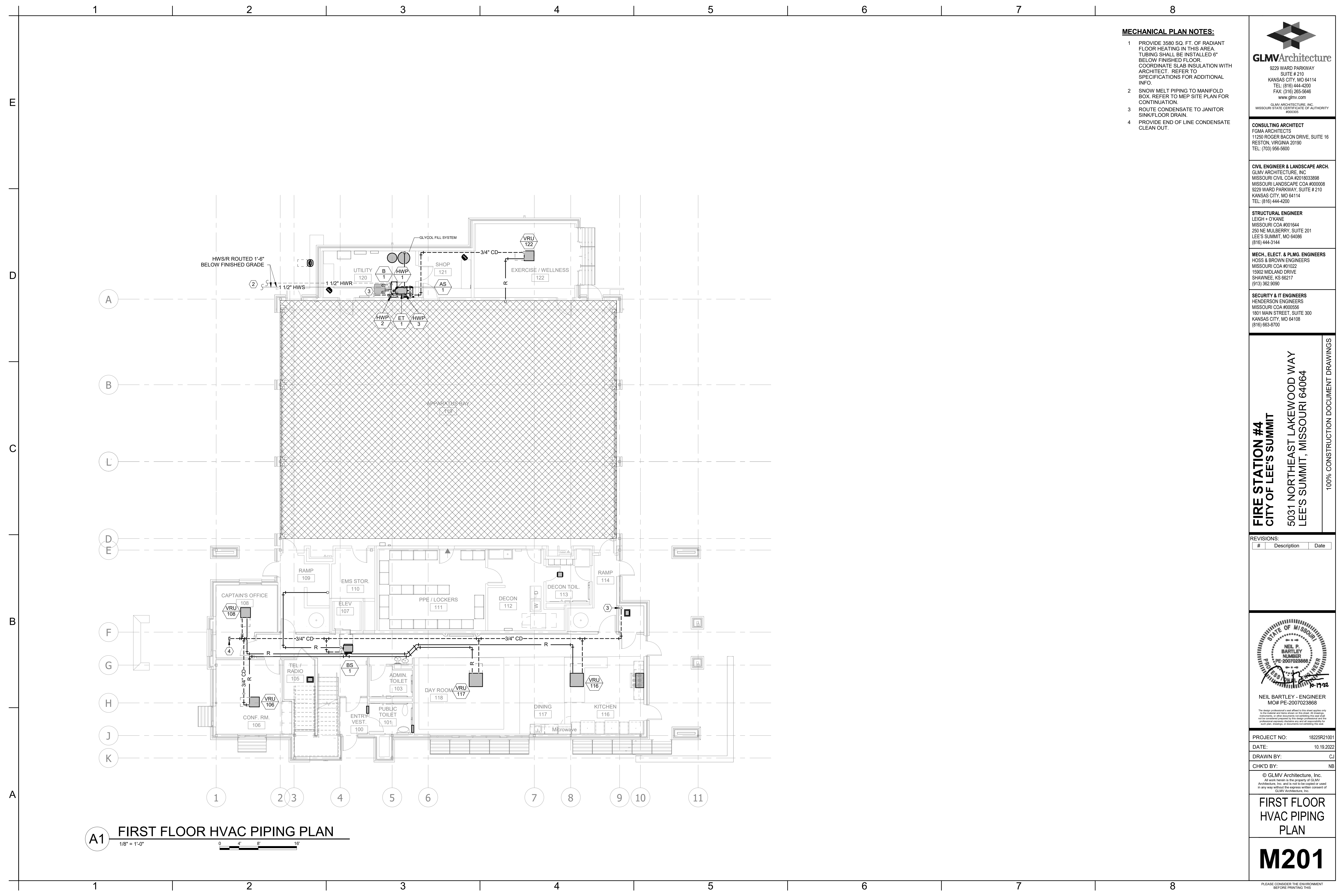
SECOND FLOOR
HVAC PLAN

M102

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



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



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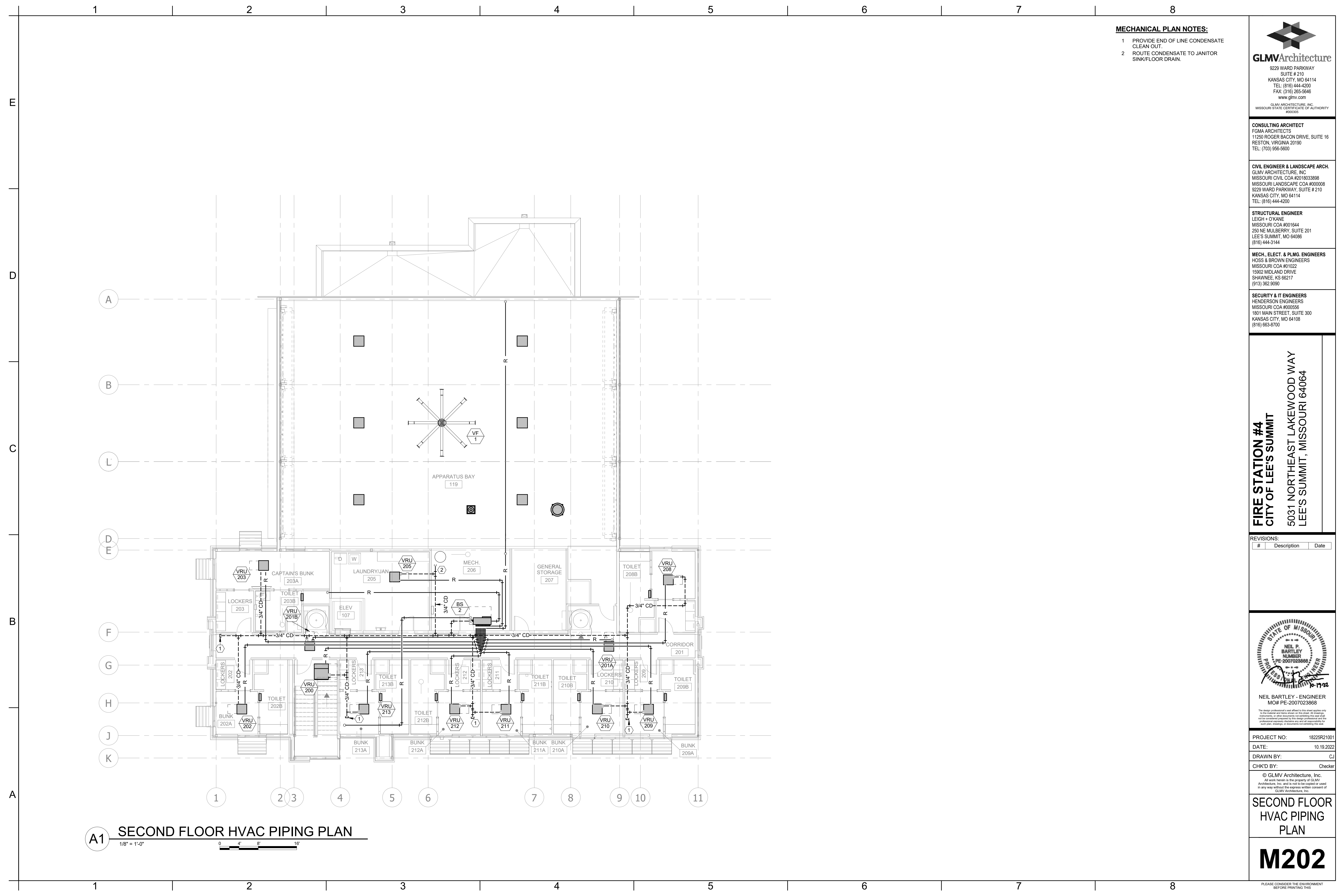
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FIRST FLOOR
HVAC PIPING
PLAN

M201

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MECHANICAL PLAN NOTES:

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



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**SECOND FLOOR
HVAC PIPING
PLAN**

M202

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E

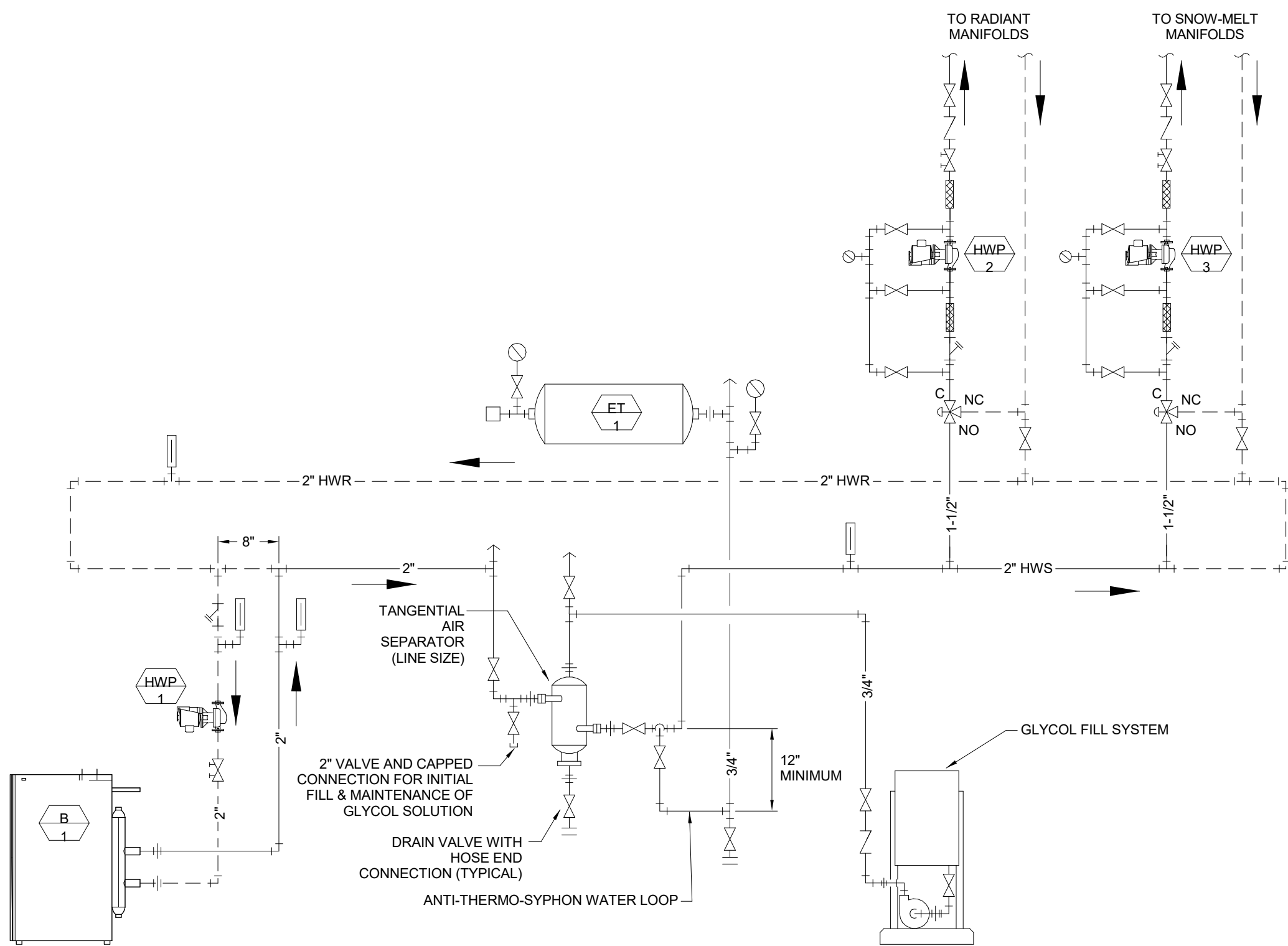
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C

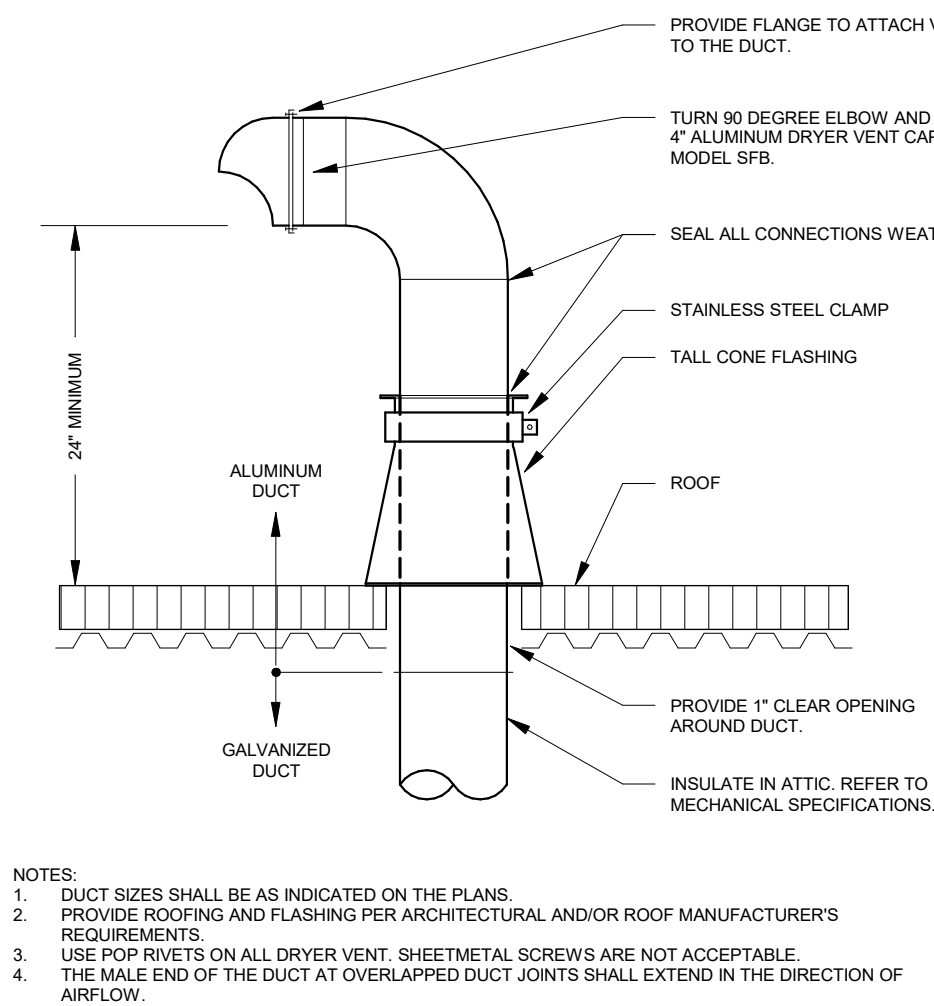
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A

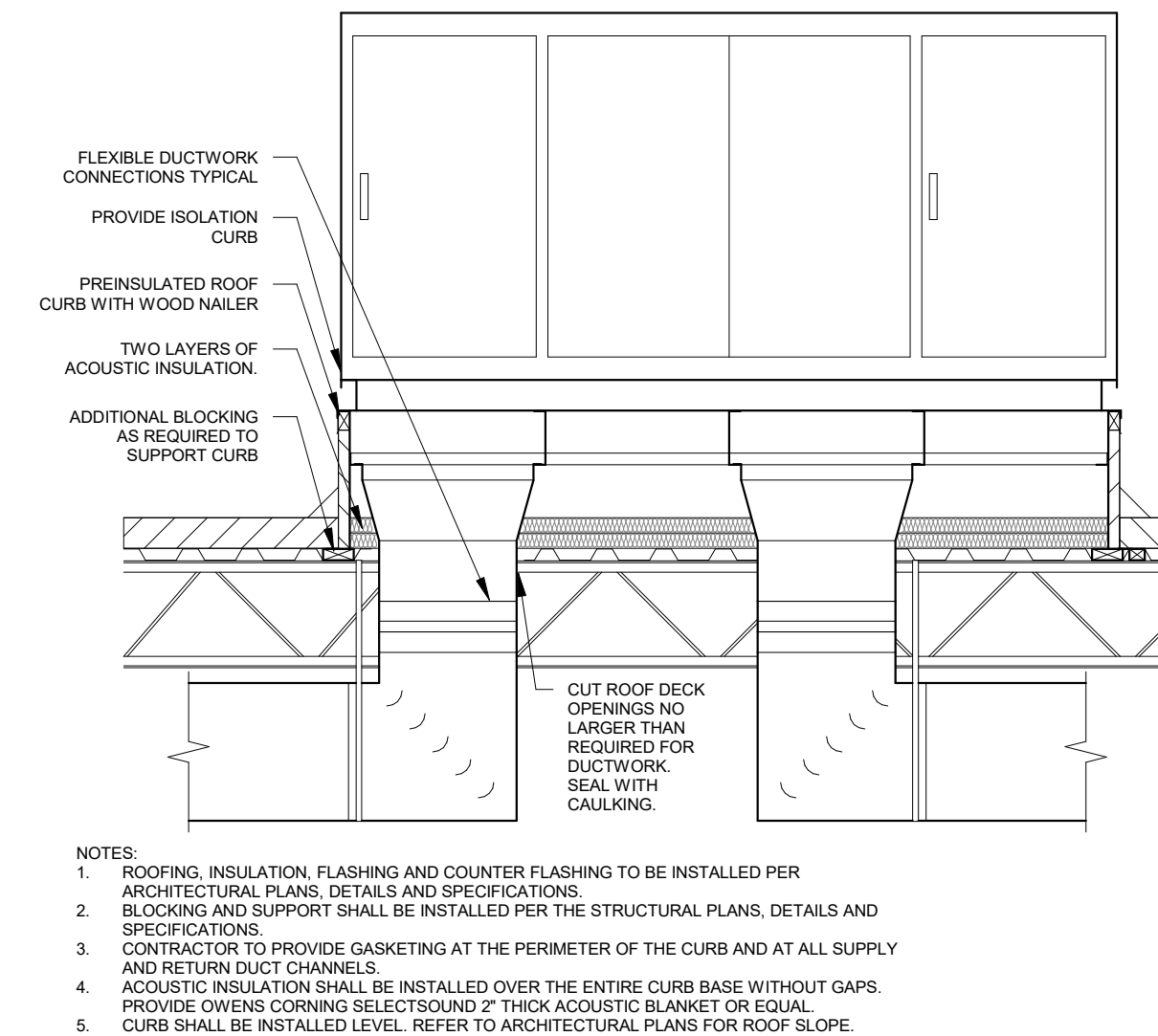
A2 Radiant Piping Schematic
NOT TO SCALE



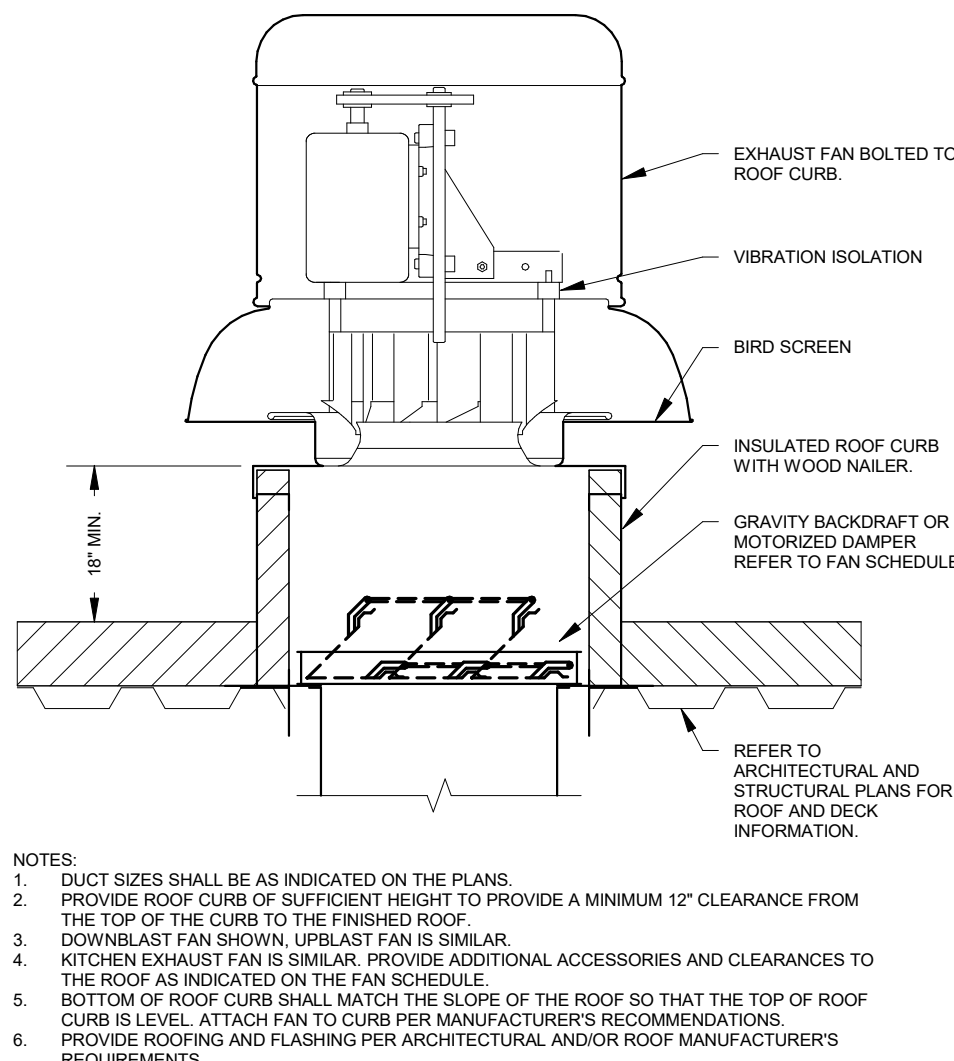
A5 VENT ROOF CLOTHES DRYER
NOT TO SCALE



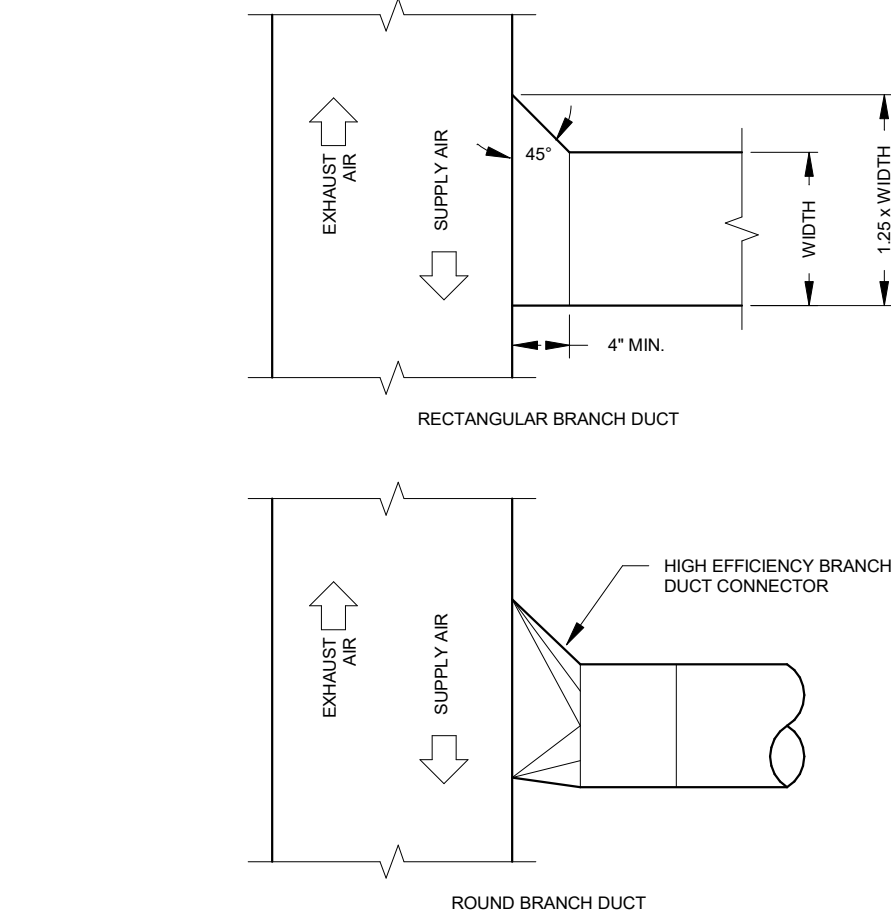
B5 ROOF CURB RTU
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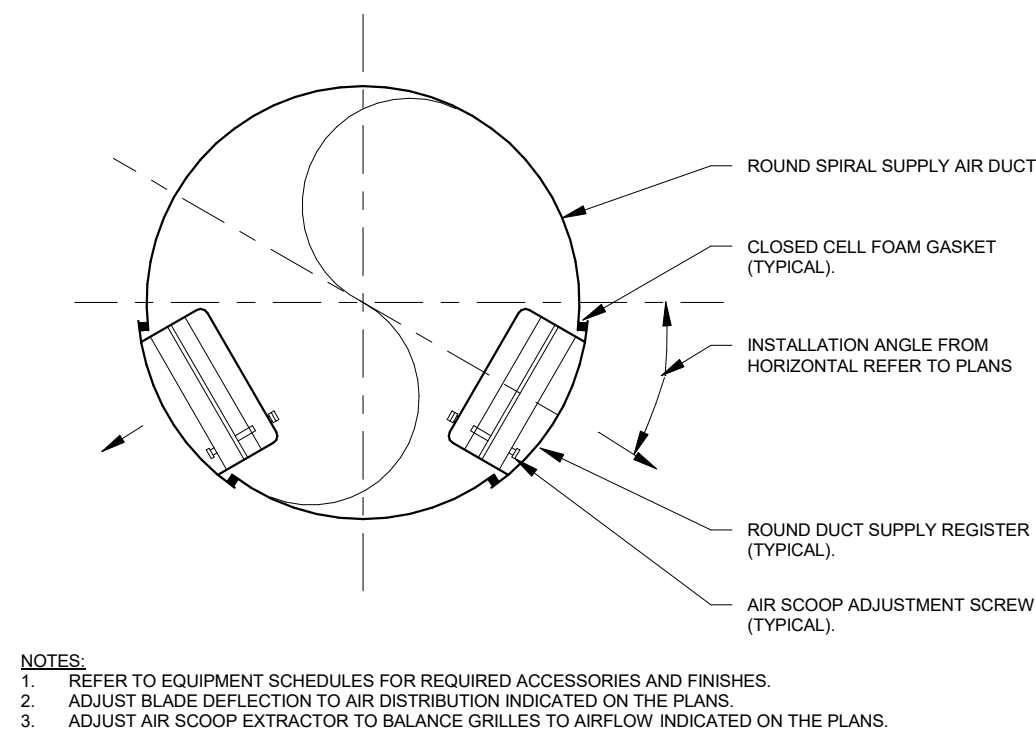
D5 FAN EXHAUST ROOF
NOT TO SCALE



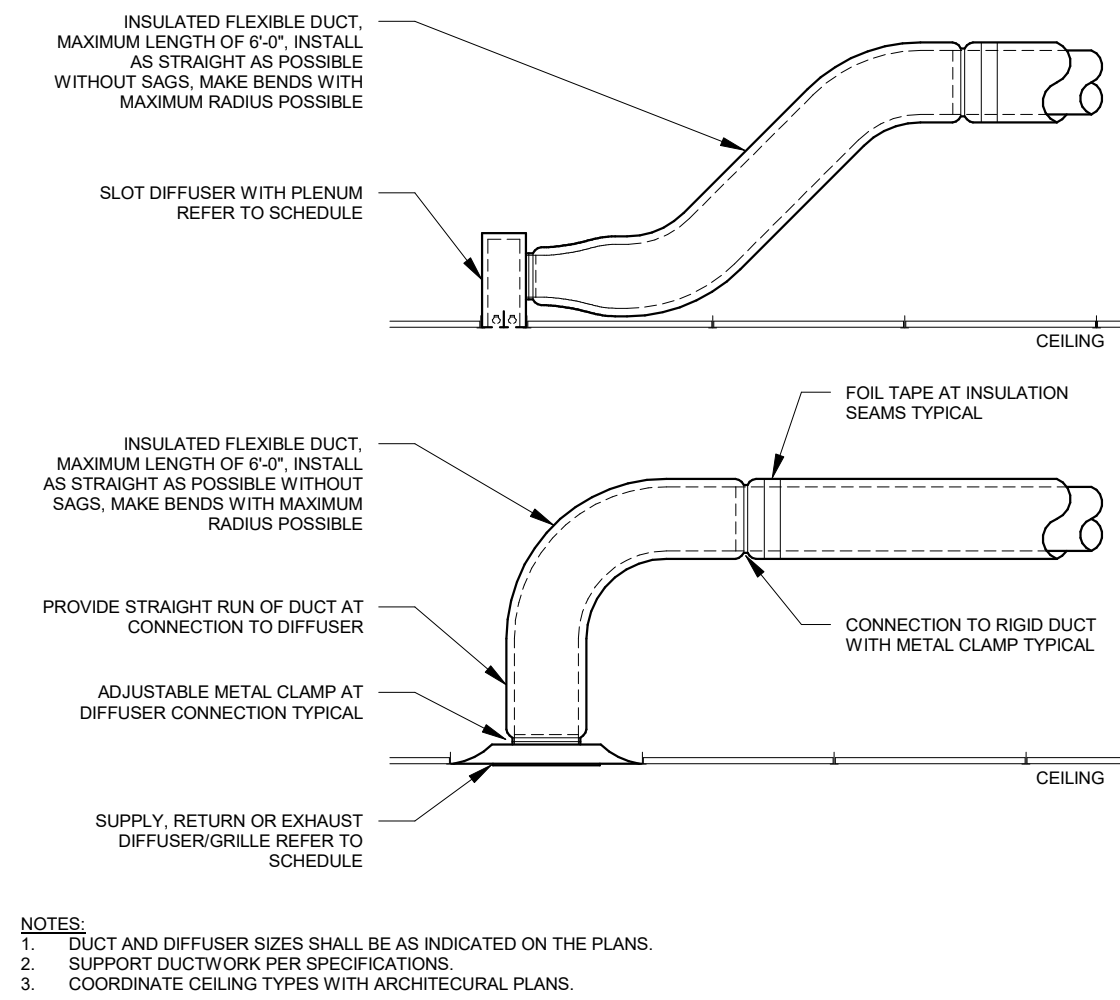
A7 DUCT BRANCH CONNECTION
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B7 DIFFUSER SUPPLY SPIRAL GRILLE
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D7 DIFFUSER CONNECTION
NOT TO SCALE



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**MECHANICAL
DETAILS**

M301

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	CAPTIVEAIRE	CASRTU1-I.125-13-6T	1025	1025	13P-1	DIRECT	1.00	1.25	0.230	1	1100	0	-	-	0.00	0.00	0.00	0	0	87	76	57	57	83.9	33.6	70	61	104.3	84.5	208	3	30.7	35	1313	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:

- ESP DOES NOT INCLUDE DIRTY FILTER PRESSURE DROP. ADD 0.5" TO INTERNAL PRESSURE DROP FOR DIRTY FILTERS.
- PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED DISCONNECT FOR SINGLE-POINT ELECTRICAL CONNECTION.
- PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED VFD.
- PROVIDE INSULATED ROOF CURB, HEIGHT AS REQUIRED TO PROVIDE 18" CLEARANCE ABOVE FINISHED ROOF. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPE.
- PROVIDE BURNER WITH MODULATING GAS HEAT.
- PROVIDE UNIT WITH BAROMETRIC RELIEF DAMPER.

GENERAL NOTES (APPLY TO ALL ABOVE):

- 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.
- ELECTRICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS IN THE MAIN RETURN DUCT AND INTERLOCK WITH UNIT PER CODE.
- FUEL SOURCE FOR GAS HEATER IS NATURAL GAS.
- 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.
- 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	SQN-D	250	0.00	DIRECT	0.00	0.00	120	1	2,3
VF 1	SKY BLADE	FNTM-1443	0	0.00	DIRECT	1.50	1.35	208	3	1,2
NOTES: 1. PROVIDE 14FT. DIA. 6-BLADE HVLS FAN AND MANUFACTUERERS SINGLE YOKE CONTROLLER. 2. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION. 3. PUMP 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.										

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.									

HOOD & LOUVER SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	SERVICE	SIZE		AIRFLOW CFM	MIN. FREE AREA (S.F.)	MAX. PD INCHES WC	NOTES
				W	H				
IH 1	GREENHECK	GRSI-8	INTAKE	10 1/2"	10 1/2"	250	0.35	0.08	
LV 1	RUSKIN	ELC-637SDAX	INTAKE	24"	48"	2700	4.09	0.15	1
NOTES: 1. PROVIDE COMBINATION LOUVER/DAMPER. DAMPER SHALL BE CONTROLLED WITH EF-1 FAN OPERATION.									
GENERAL NOTES (APPLY TO ALL ABOVE): A. PROVIDE MOUNTING FRAME TO MATCH CONSTRUCTION. B. COLOR TO BE SELECTED BY CONTRACTOR FROM MANUFACTURER'S STANDARD COLORS. C. PROVIDE ALL FASTENERS, HANGERS, AND ASSOCIATED DEVICES REQUIRED FOR COMPLETE INSTALLATION.									

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				NOTES
									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	2
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	1
VRU 201A	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
VRU 201B	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
VRU 202	TRANE	TPLFYP008FM140A	24x24 Cassette	25	315	7865.0	5509.0	6114.0	208	1	0.3	15	2
VRU 203	TRANE	TPLFYP008FM140A	24x24 Cassette	25	315	7865.0	5509.0	6114.0	208	1	0.3	15	2
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	2
VRU 209	TRANE	TPLFYP012FM140A	24x24 Cassette	25	335	11797.0	7347.0	9171.0	208	1	0.3	15	2
VRU 210	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
VRU 211	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
VRU 212	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
VRU 213	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
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)
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FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5/LSMO_FIRE STATIONS MEP_V19.rvt

E

D

C

B

A

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

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



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PROJECT NO:	18225R21001
DATE:	10.19.2022
DRAWN BY:	CJ
CHK'D BY:	N. BARTLEY

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MECHANICAL SCHEDULES

M402

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PLUMBING MASTER SYMBOLS LEGEND

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

- PLUMBING GENERAL NOTES:**
- A. GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY COMPONENTS AND OFFSETS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- 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 LOCATE PIPING BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL HEATING COILS, OR OTHER EQUIPMENT.
- F. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
- G. COORDINATE THE SHUT 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 10'-0" AWAY 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 CLEANOUTS 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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PLUMBING
SYMBOLS
LEGEND

P001

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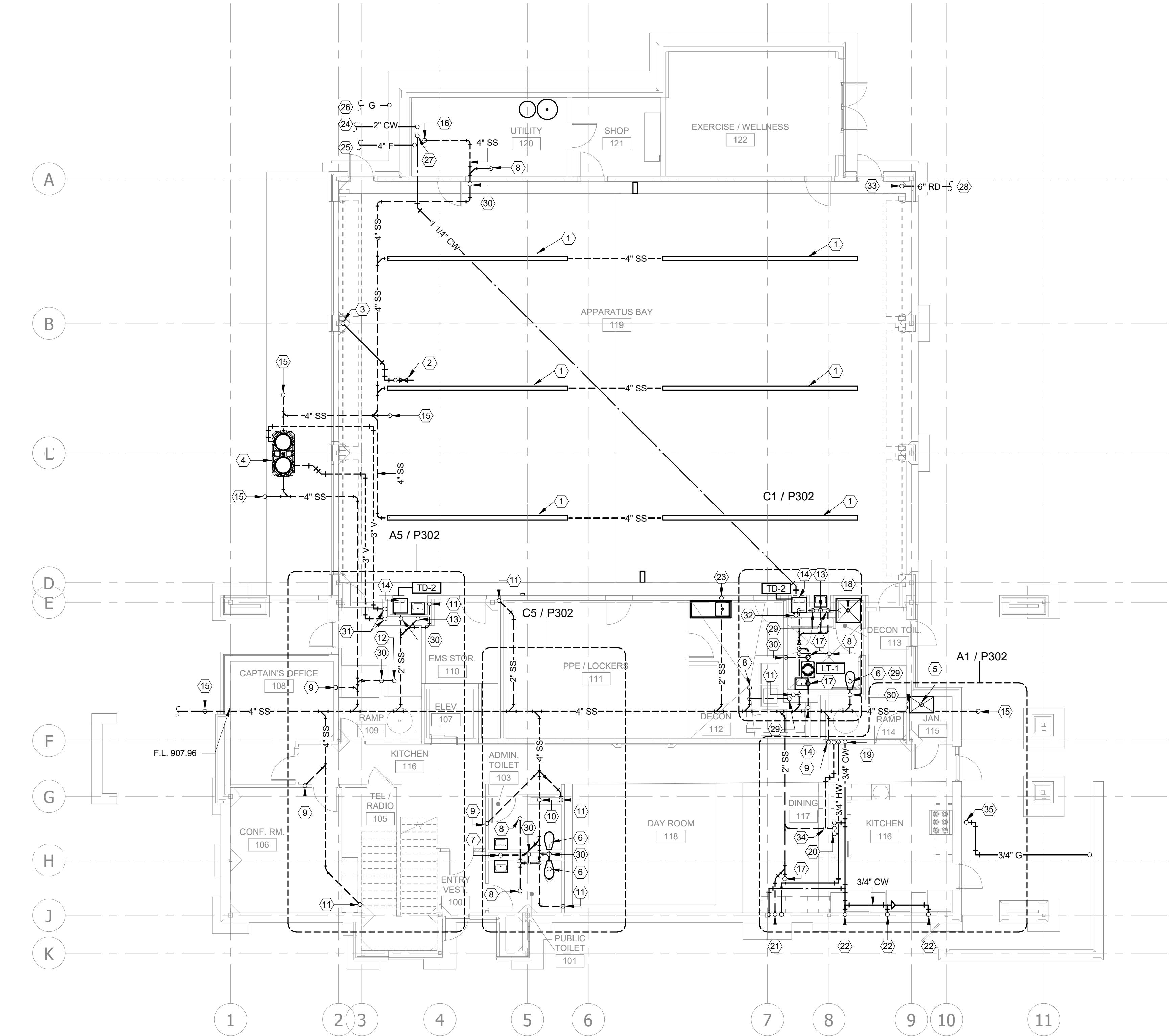
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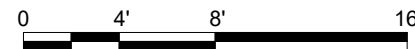
C

B

A



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



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

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ENGINEER
PE-2007023868

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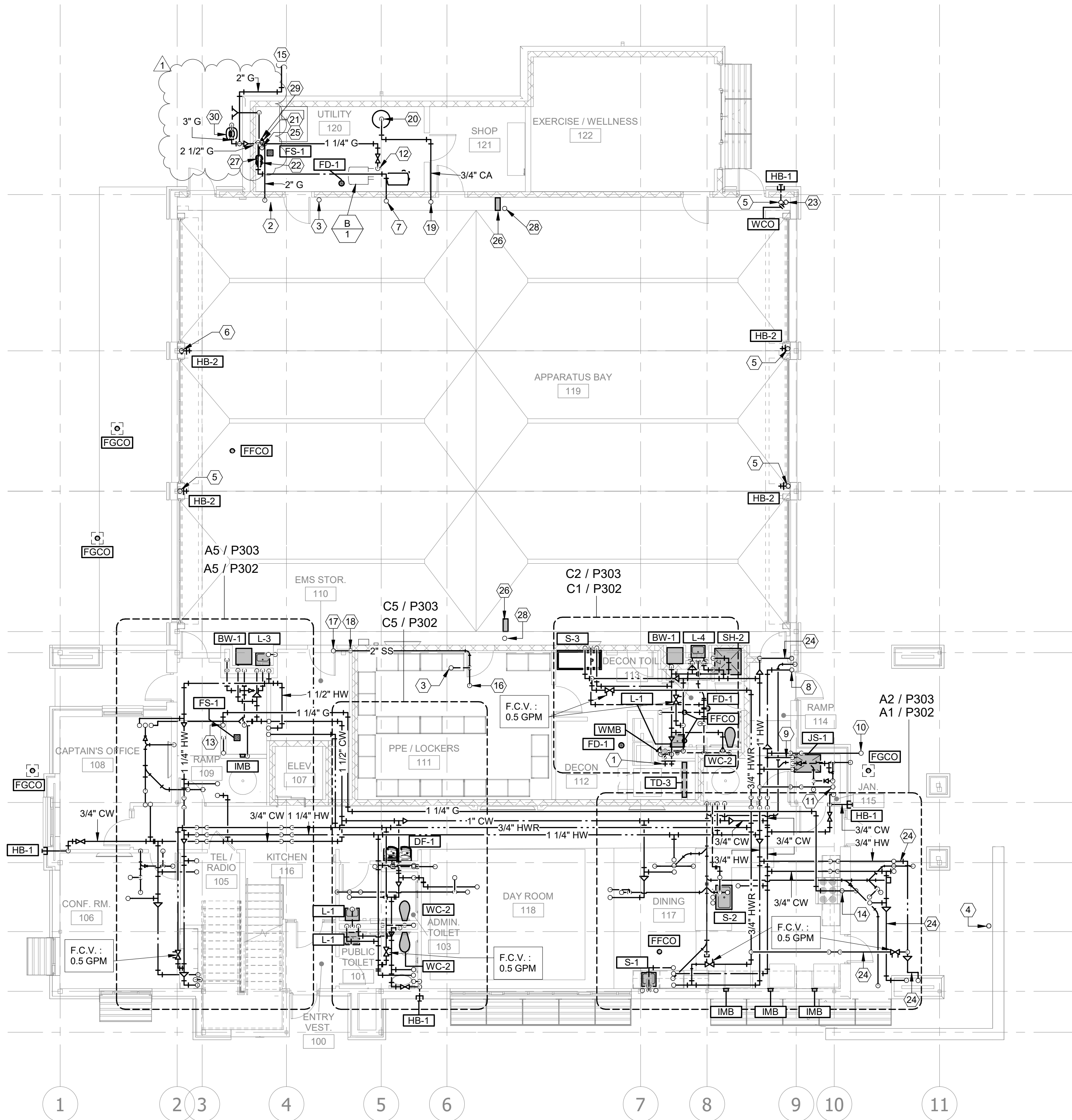
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UNDERGROUND PLUMBING PLAN

P100

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E
D
C
B
A



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

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



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FIRST FLOOR
PLUMBING PLAN

P101

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- PLUMBING PLAN NOTES:**
- 1 1/2" COMPRESSED AIR DOWN TO HOSE REEL.
 - 2 3" PIPE UP TO ROOF DRAIN.
 - 3 6" PIPE UP TO ROOF DRAIN.
 - 4 2" NATURAL GAS FROM BELOW.
 - 5 1-1/2" COLD WATER FROM BELOW.
 - 6 3/4" COMPRESSED AIR DOWN.
 - 7 6" STORM DRAIN DOWN BELOW GRADE.
 - 8 3/4" COLD WATER DOWN.
 - 9 2" GAS UP TO ROOF.
 - 10 3/4 COLD WATER UP TO ROOF HYDRANT.
 - 11 1/2" COLD, 1/2" HOT WATER, 1-1/2" VENT, AND 2" WASTE TO LAUNDRY SINK.
 - 12 2" VENT FROM BELOW.



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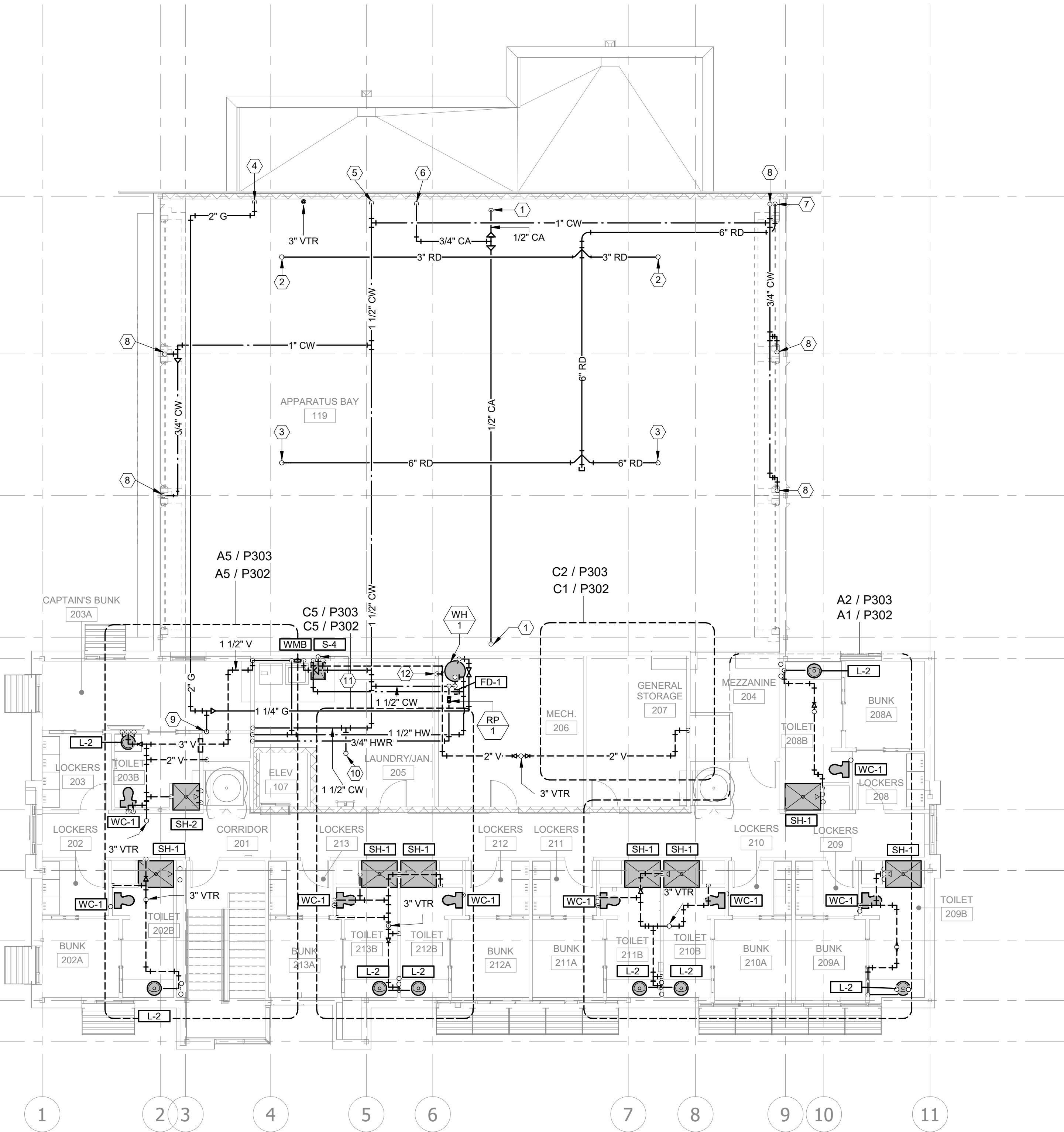
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**SECOND FLOOR
PLUMBING PLAN**

P102

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A1 SECOND FLOOR PLUMBING PLAN

1/8" = 1'-0"



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

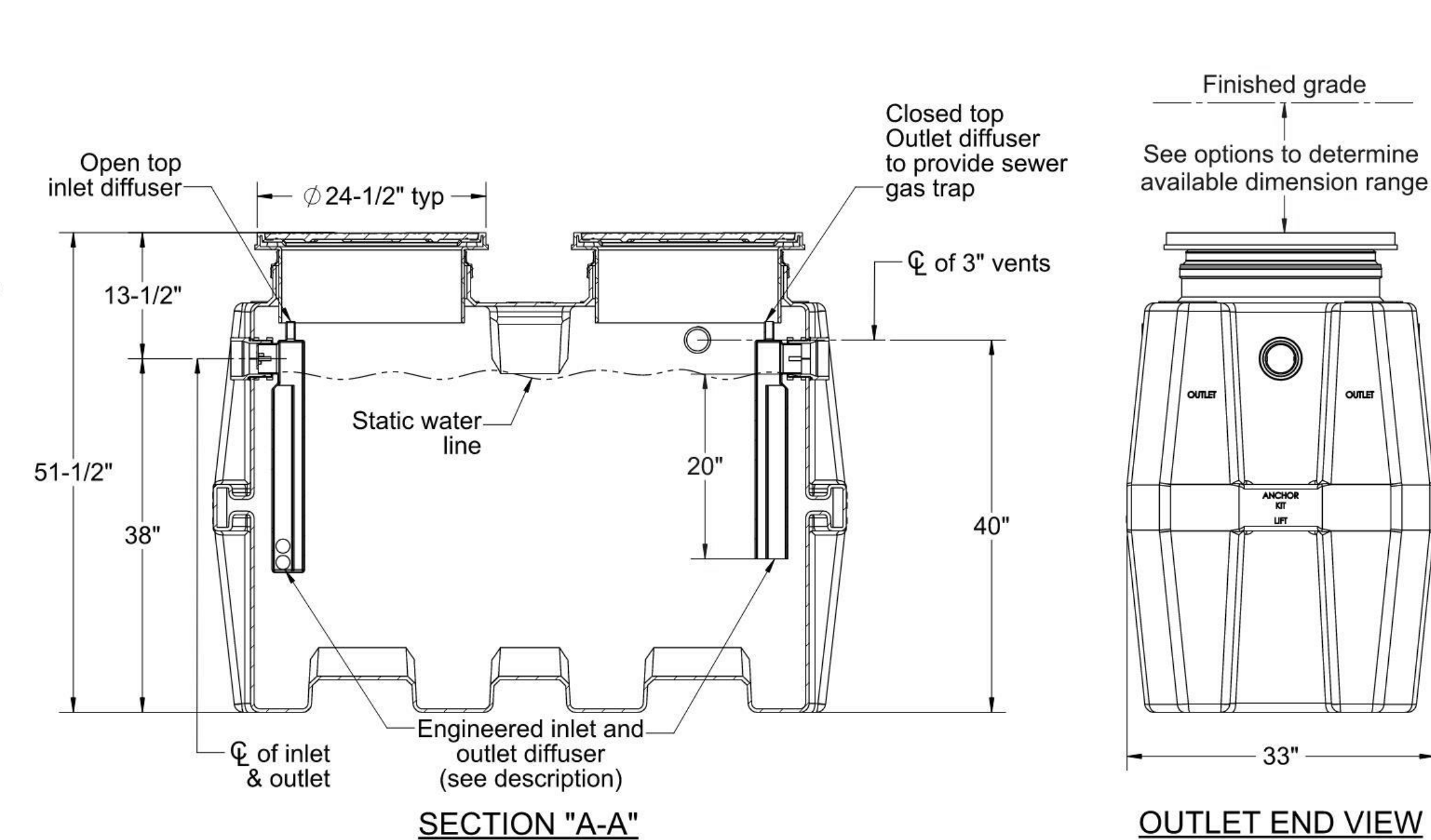
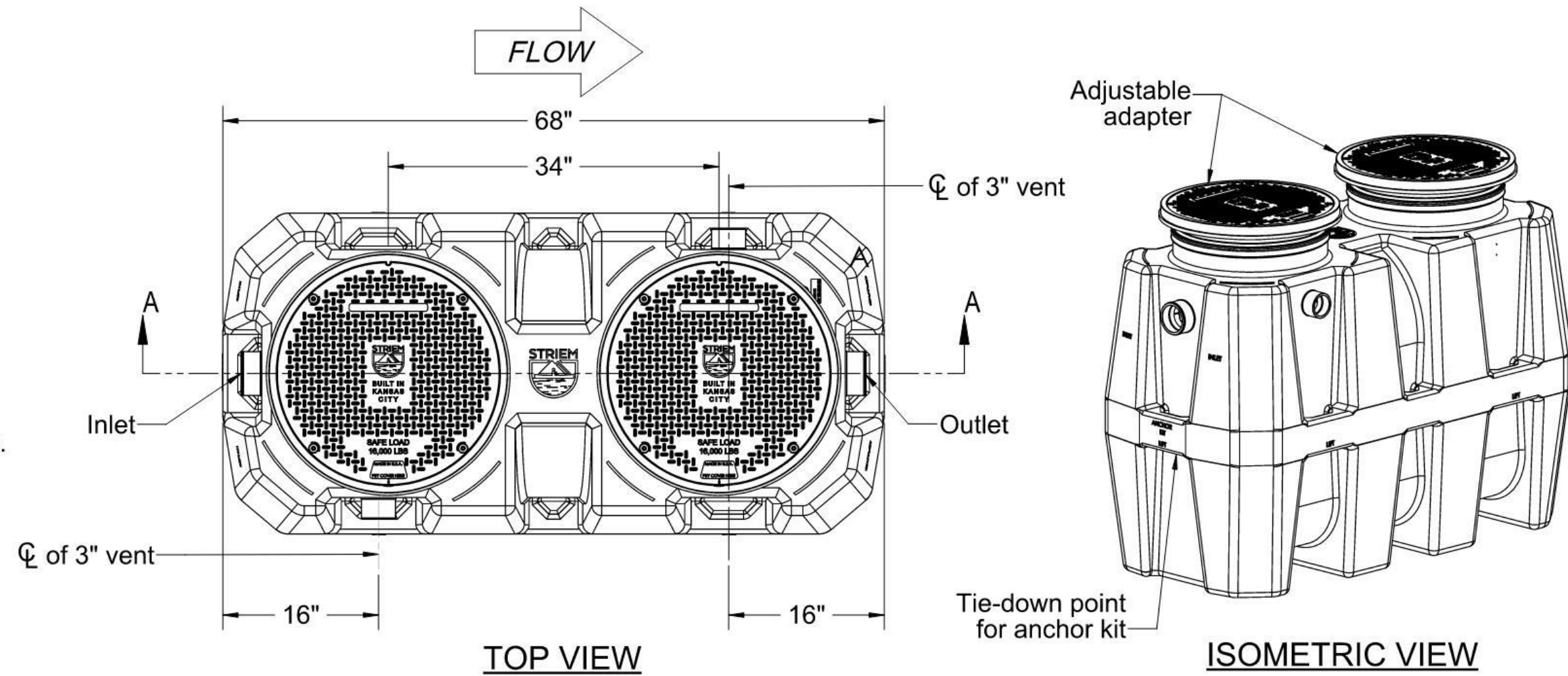
*Clean Sweep Coalescing Media not compatible with CPRK

RISER OPTIONS

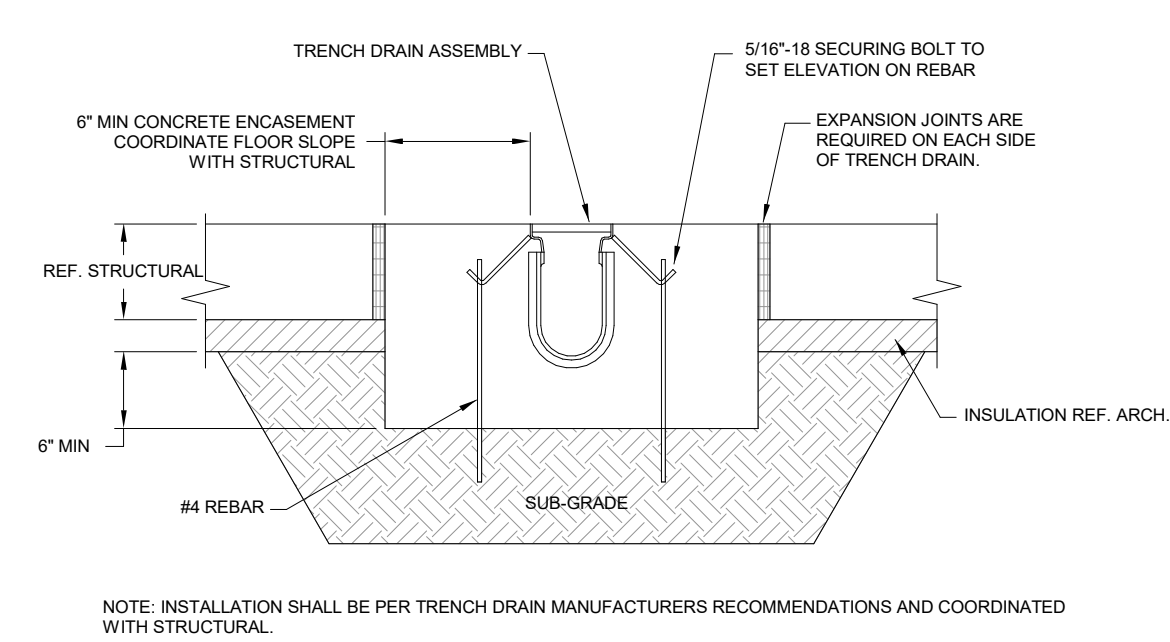
- ☐ SR24 (2) - >5"-24"
- ☐ LR24 (2) - >24"-39"
- ☐ SR24 (4) - >39"-43"
- ☐ SR24 (2) + LR24 (2) - >43"-58"
- ☐ LR24 (4) - >58"-72"
- ☐ SR24 (2) + LR24 (4) - >72"-90"
- ☐ CPRK (2) : >11" - 90"
 - Corrugated Pipe Riser Kit.
 - 18" diameter corrugated pipe by others.
 - Used in substitute of SR/LR riser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

PROPRIETARY AND CONFIDENTIAL

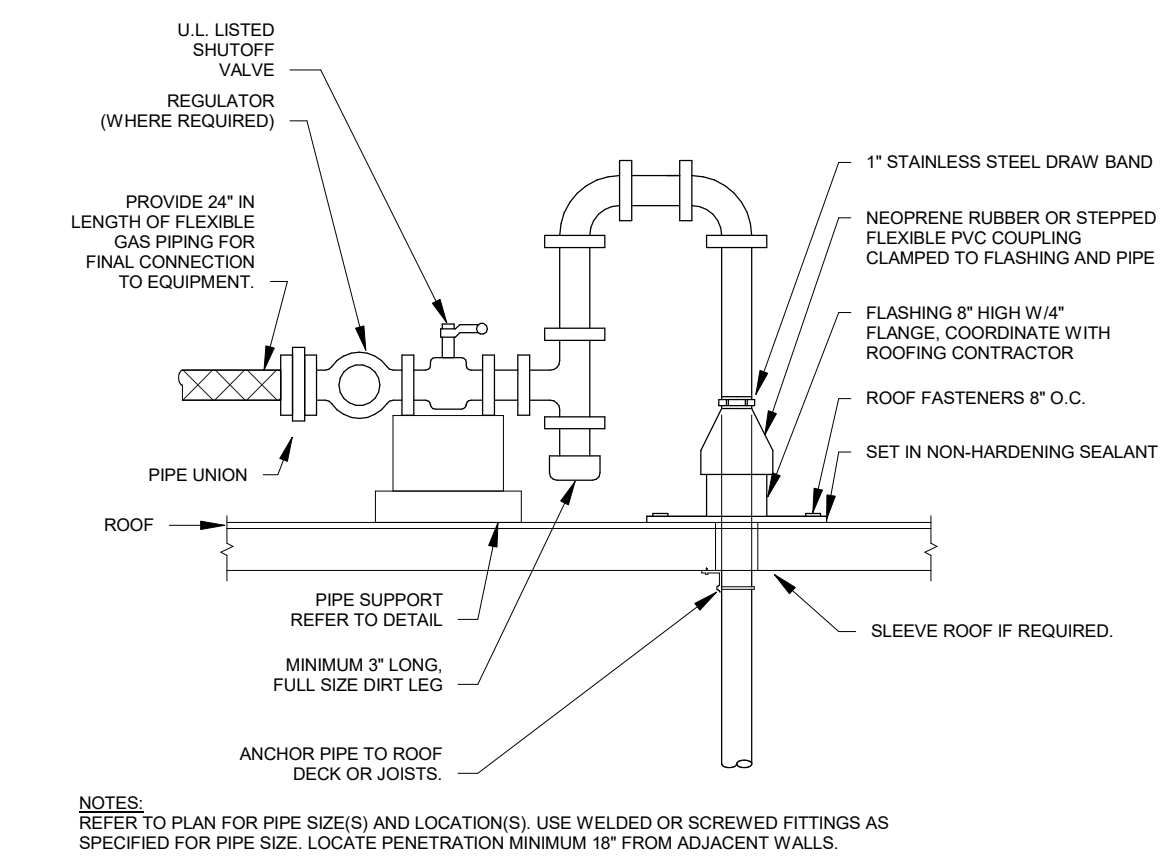
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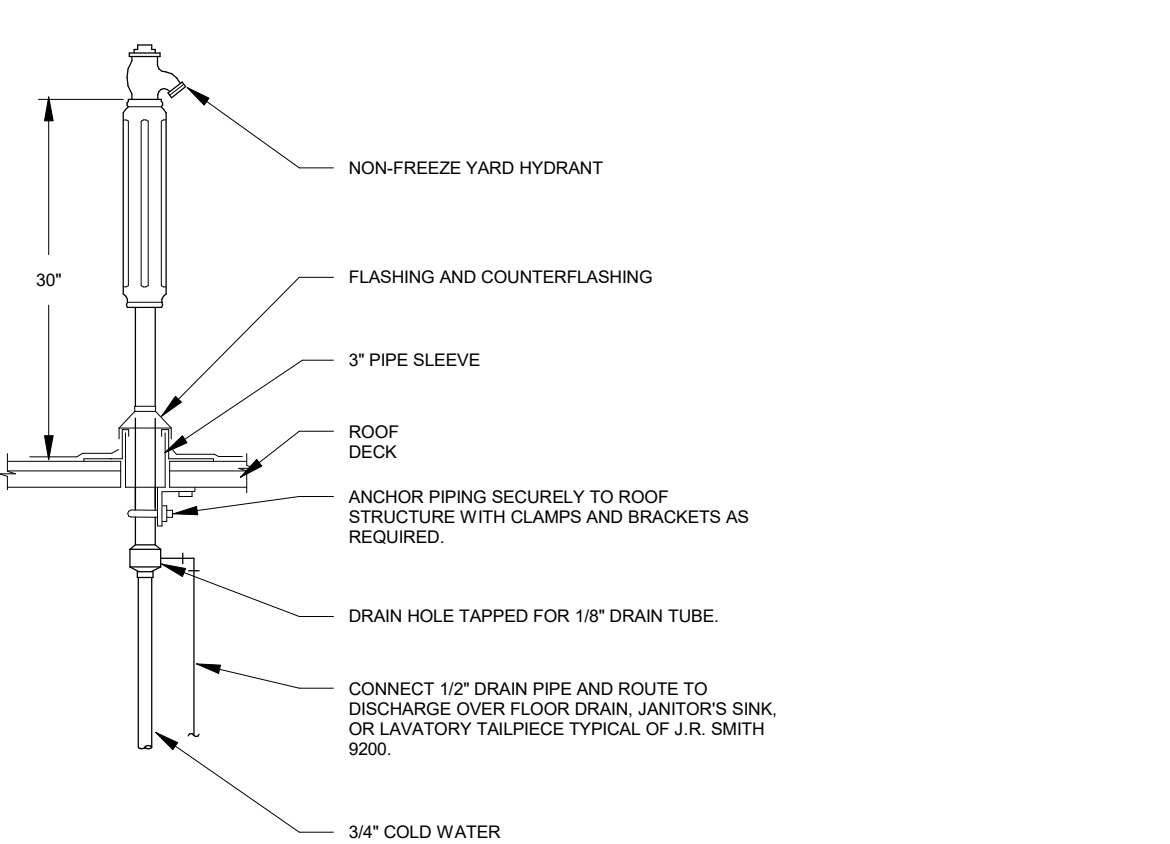
MODEL NUMBER: OS-100		SPECIFICATION SHEET	
DESCRIPTION: 100 GPM POLYETHYLENE OIL/SAND SEPARATOR		<div>Striem 3100 Brinkerhoff Kansas City, KS 66115 Tel: 913-222-1500 orders@striemco.com www.striemco.com</div> <div>Made in the U.S.A</div>	
DWG BY: MJ	DATE: 12/09/2020	REV: 0	ECO:



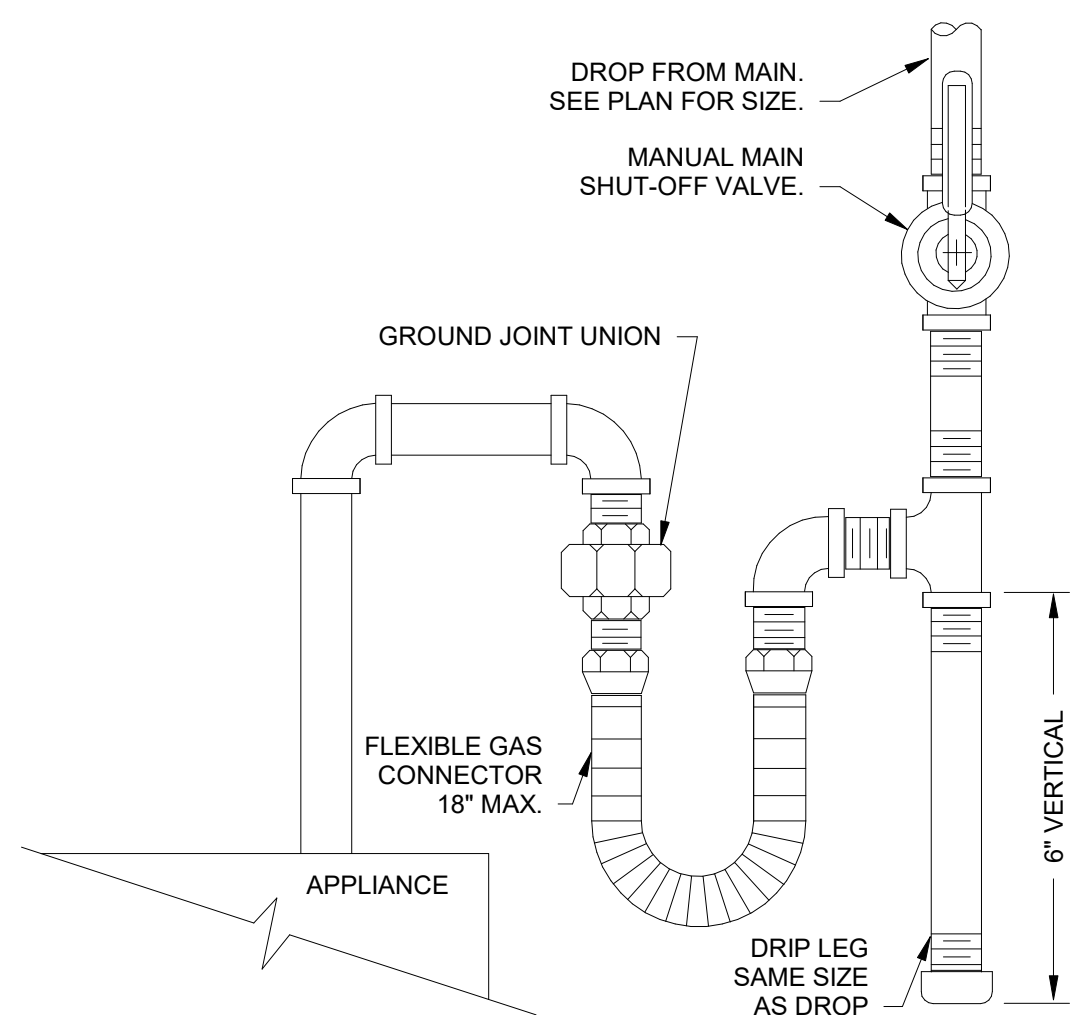
D7 TRENCH DRAIN DETAIL NOT TO SCALE



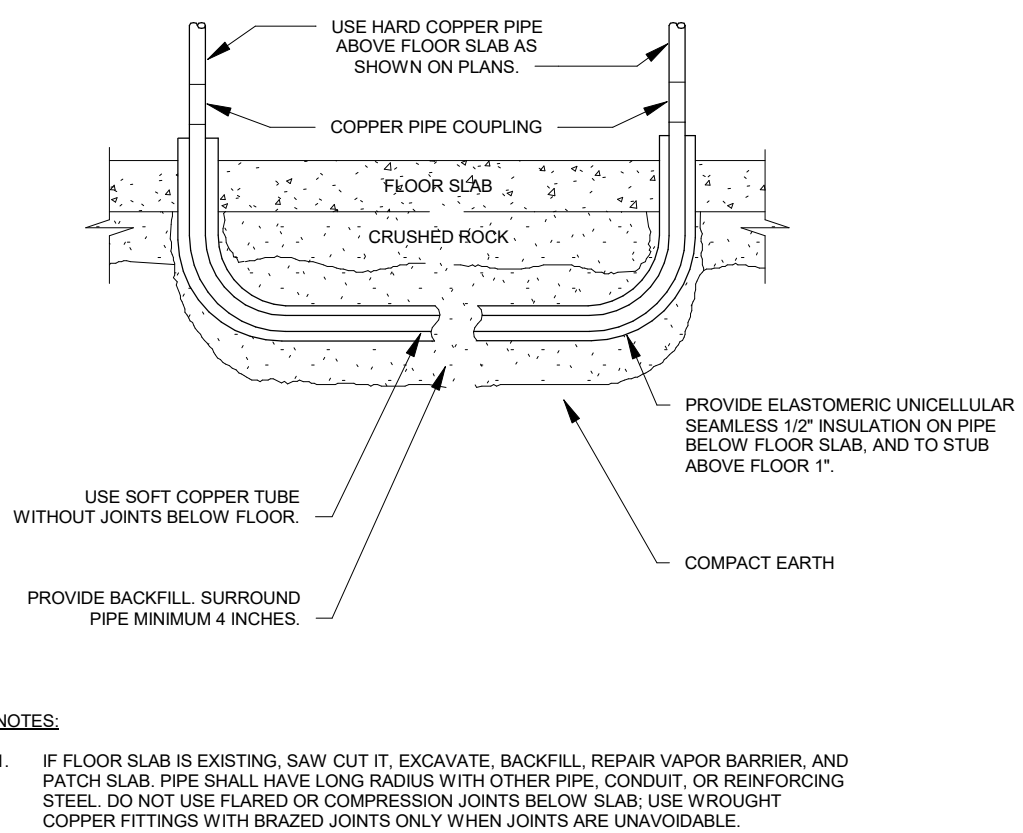
C7 GAS PIPE THRU ROOF NOT TO SCALE



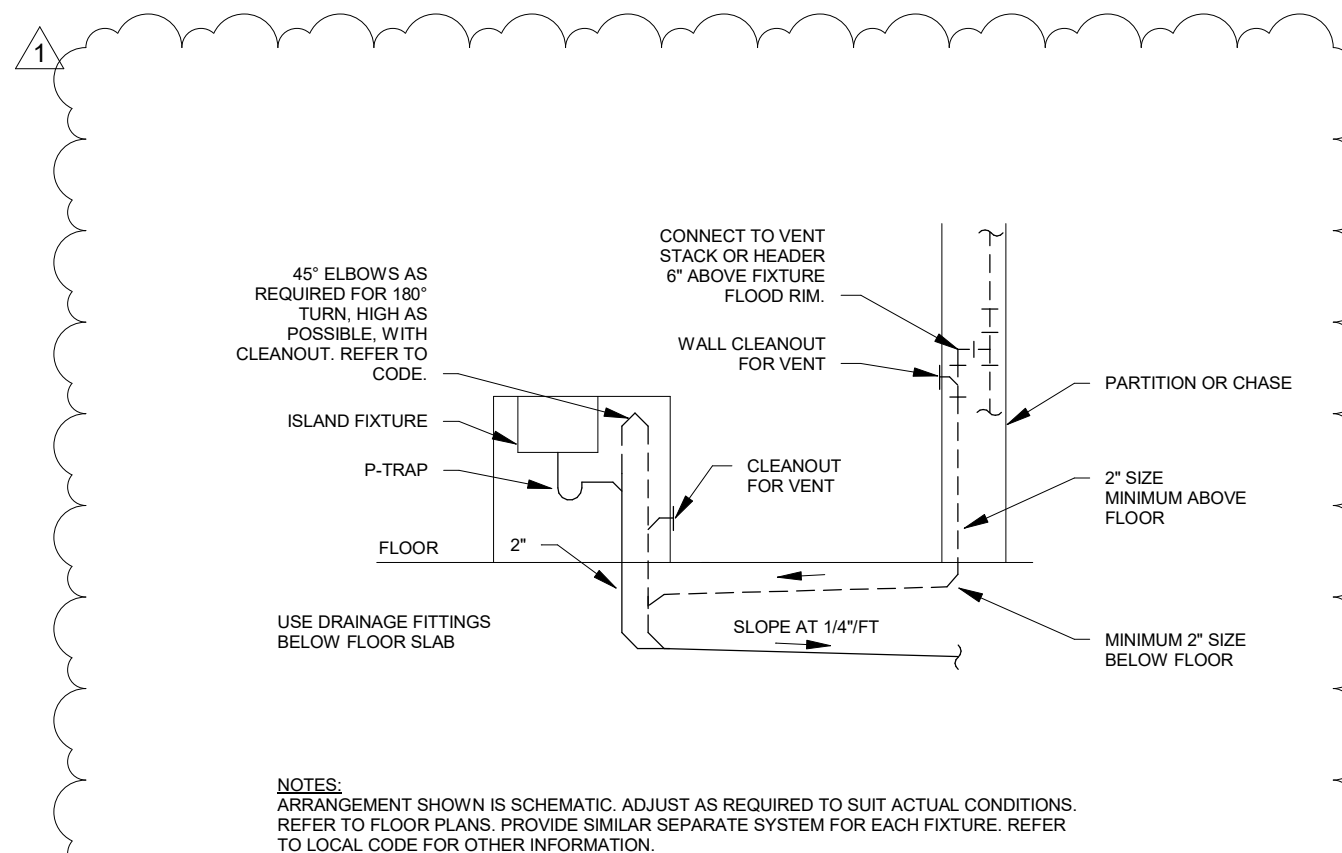
B7 ROOF HYDRANT NOT TO SCALE



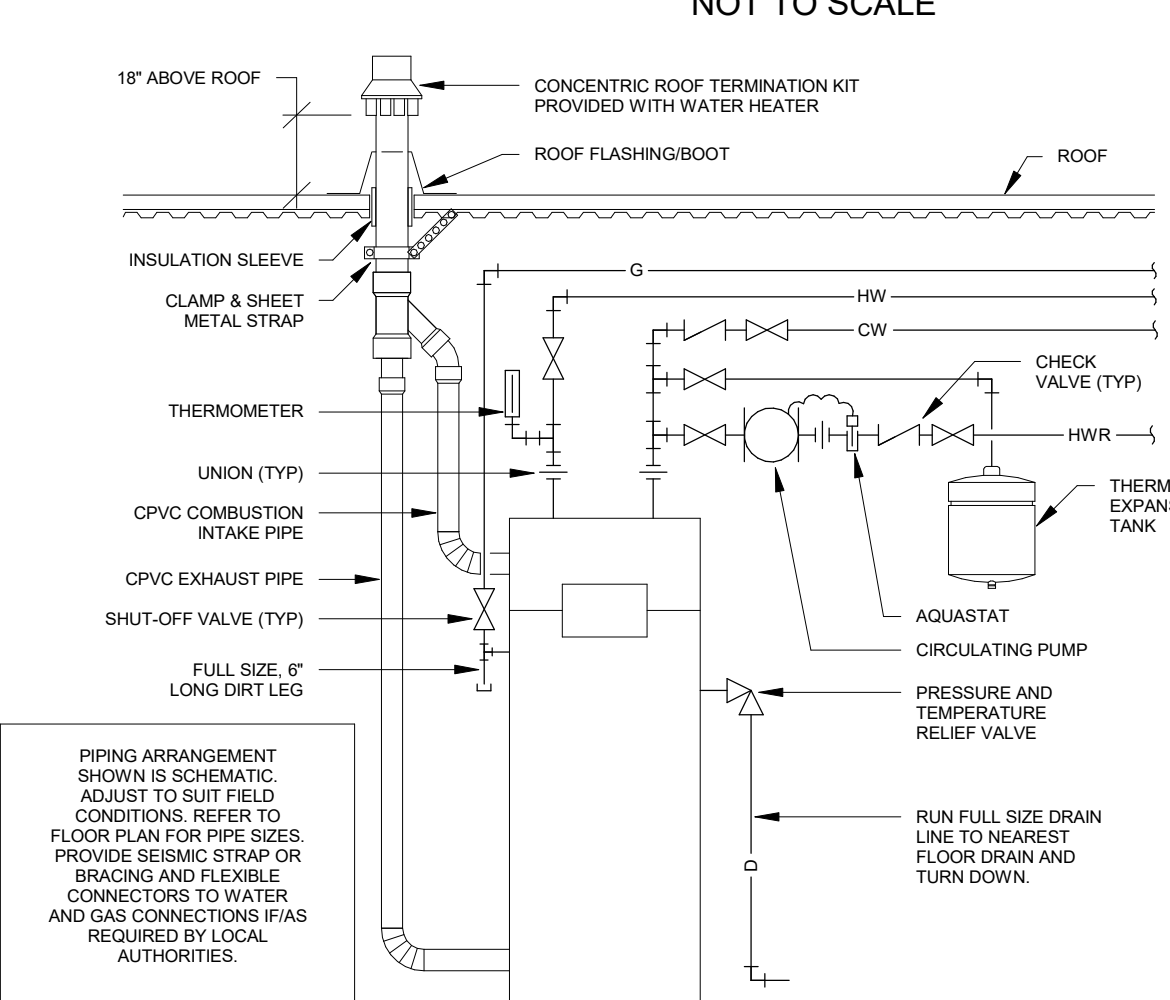
A1 GAS APPLIANCE CONNECTION DETAIL NOT TO SCALE



A3 UNDER SLAB WATER PIPE NOT TO SCALE



A5 ISLAND FIXTURE VENT NOT TO SCALE



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



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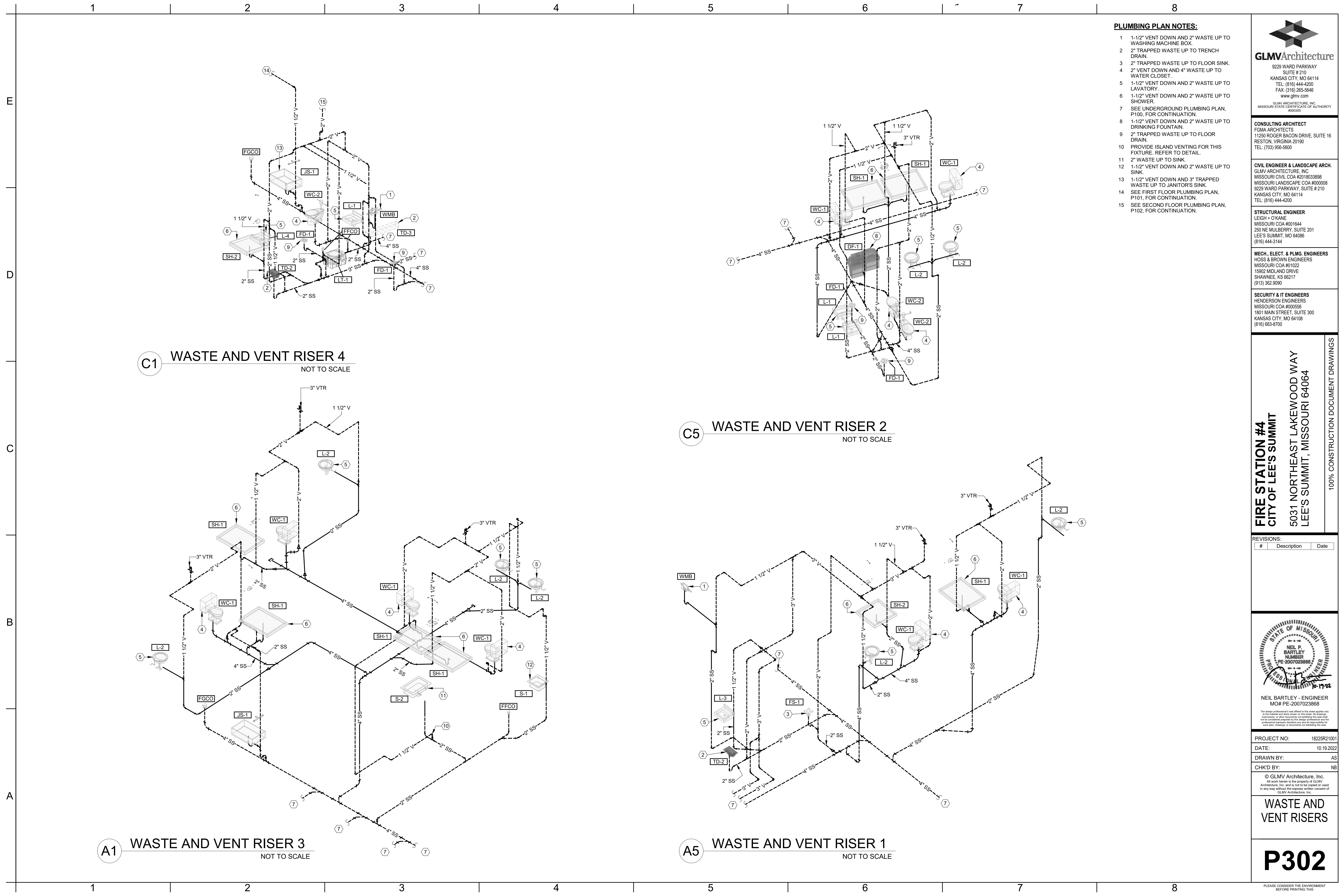
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PLUMBING
DETAILS

P301

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



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MO# PE-2007023868

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PROJECT NO:	18225R21001
DATE:	10.19.2022
DRAWN BY:	AS
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WASTE AND VENT RISERS

P302

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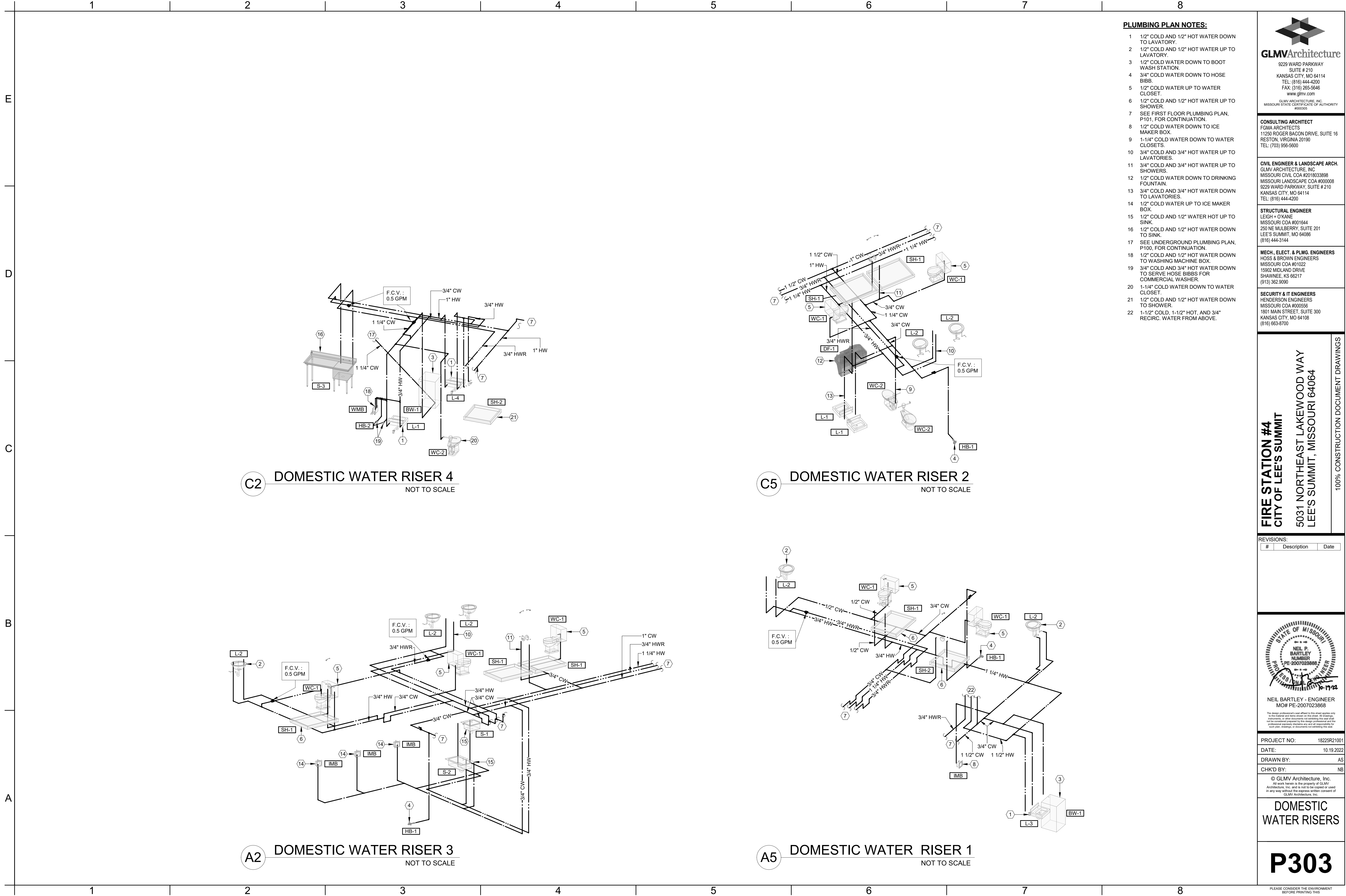
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FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5/LSMO_FIRE STATIONS MEP_V19.rvt



- PLUMBING PLAN NOTES:**
- 1 1/2" COLD AND 1/2" HOT WATER DOWN TO LAVATORY.
 - 2 1/2" COLD AND 1/2" HOT WATER UP TO LAVATORY.
 - 3 1/2" COLD WATER DOWN TO BOOT WASH STATION.
 - 4 3/4" COLD WATER DOWN TO HOSE BIBB.
 - 5 1/2" COLD WATER UP TO WATER CLOSET.
 - 6 1/2" COLD AND 1/2" HOT WATER UP TO SHOWER.
 - 7 SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
 - 8 1/2" COLD WATER DOWN TO ICE MAKER BOX.
 - 9 1-1/4" COLD WATER DOWN TO WATER CLOSETS.
 - 10 3/4" COLD AND 3/4" HOT WATER UP TO LAVATORIES.
 - 11 3/4" COLD AND 3/4" HOT WATER UP TO SHOWERS.
 - 12 1/2" COLD WATER DOWN TO DRINKING FOUNTAIN.
 - 13 3/4" COLD AND 3/4" HOT WATER DOWN TO LAVATORIES.
 - 14 1/2" COLD WATER UP TO ICE MAKER BOX.
 - 15 1/2" COLD AND 1/2" WATER HOT UP TO SINK.
 - 16 1/2" COLD AND 1/2" HOT WATER DOWN TO SINK.
 - 17 SEE UNDERGROUND PLUMBING PLAN, P100, FOR CONTINUATION.
 - 18 1/2" COLD AND 1/2" HOT WATER DOWN TO WASHING MACHINE BOX.
 - 19 3/4" COLD AND 3/4" HOT WATER DOWN TO SERVE HOSE BIBBS FOR COMMERCIAL WASHER.
 - 20 1-1/4" COLD WATER DOWN TO WATER CLOSET.
 - 21 1/2" COLD AND 1/2" HOT WATER DOWN TO SHOWER.
 - 22 1-1/2" COLD, 1-1/2" HOT, AND 3/4" RECIRC. WATER FROM ABOVE.



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LEE'S SUMMIT, MISSOURI 64064

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

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

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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		0.25 GPM MIN. FLOW ASSE 1017 CERTIFIED LOW FLOW	SEE PLAN	--	--		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	WATER HEATER	--	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 WALL CLAMP					
HB-2	ROUGH BRASS HOSE BIBB	SMITH	5609QT						
		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, FLASHING RING, GRAVEL STOP AND CAST IRON DOME	--	--	--	--	
		ZURN	ZC-100						
		SMITH	1010-CID						
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. TOLJET 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.									

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 LONGITUDINAL 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 COMPLIES WITH ASTM B 209						
TYPE 4	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						
TYPE 5	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	SHIELD LENGTH	SHIELD GAUGE	INSULATION	NOTES	
1 1/2" TO 5"		6"	4"	20	TYPE 4	4	
6" TO 8"		9"	6"	16	TYPE 4	4	
INSULATION THICKNESS FOR PIPES LOCATED WITHIN THE BUILDING THERMAL ENVELOPE							
PIPING SYSTEM	CONTINUOUS VAPOR BARRIER	PIPE SIZE				INSULATION	NOTES
		<= 1 1/2"	2" - 4"	5" - 6"	>= 8"		
CW	YES	1"	1"	1"	1"	TYPE 1	...
HW	NO	1"	1"	1"	1"	TYPE 1	...
HWC	NO	1"	1"	1"	1"	TYPE 1	...
ROOF DRAIN	YES	1"	1"	1"	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						

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

PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTIONS				NOTES
					CW	HW	W	V	
WC-1	ADA FLOOR MOUNTED FLUSH TANK WATER CLOSET-1.28 GPF	AMERICAN STANDARD	CADET III 3717C.001	CHURCH 9500C OPEN FRONT SEAT TOTO SC534 OPEN FRONT SEAT	1/2"	--	4"	2"	1, 4, 7
WC-2	ADA FLOOR MOUNTED FLUSH VALVE WATER CLOSET	KOHLER	K-5310-0						
		TOTO	CST454CEFG						
WC-2	ADA FLOOR MOUNTED FLUSH VALVE WATER CLOSET	AMERICAN STANDARD	MADERA 3043.001	FLUSH VALVE: FV-1					
		KOHLER	K-96057-0	CHURCH 9500C OPEN FRONT SEAT TOTO SC534 OPEN FRONT SEAT	1-1/4"	--	4"	2"	4, 9
WC-2	ADA FLOOR MOUNTED FLUSH VALVE WATER CLOSET	TOTO	CT705ELN						
FV-1	BATTERY POWERED SENSOR WATER CLOSET FLUSH VALVE	SLOAN	G2 811-1.6	1.6 GALLONS PER FLUSH	--	--	--	--	
FV-1	BATTERY POWERED SENSOR WATER CLOSET FLUSH VALVE	ZURN	ZER6000AV-TM-WS1						
		TOTO	TET1GA						
L-1	WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	FAUCET: F-7 20X18 BASIN, CONCEALED ARM CARRIER, MIXING VALVE MV-1	--	--	2"	1-1/2"	2
L-1	WALL HUNG LAVATORY	KOHLER	KINGSTON K-2005						
		TOTO	LT307						
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 20X18 BASIN, CONCEALED ARM CARRIER, MIXING VALVE MV-1	--	--	2"	1-1/2"	2
L-3	WALL HUNG LAVATORY	KOHLER	KINGSTON K-2005						
		TOTO	LT307						
L-4	WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	FAUCET: EW-1 20X18 BASIN, CONCEALED ARM CARRIER	--	--	2"	1-1/2"	2
L-4	WALL HUNG LAVATORY	KOHLER	KINGSTON K-2005						
		TOTO	LT307						
S-1	ADA SINGLE BOWL SELF RIM SINK	ELKAY	LRAD202265PD LUSTERSTONE	FAUCET F-3 INTEGRAL DRAIN WITH STOP	--	--	2"	1-1/2"	1, 2, 4
S-2	ADA SINGLE BOWL TOP MOUNT KITCHEN SINK	ELKAY	LRADQ312265PD LUSTERSTONE	FAUCET: F-3 GARBAGE DISPOSAL: GD-1 33X22XS-1/2" SINGLE BOWL	--	--	2"	--	1, 2, 4
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 INTEGRAL DRAIN WITH STOP	--	--	2"	1-1/2"	
JS-1	MOLDED STONE JANITOR'S SINK	FIAT	MSB-3624	FAUCET: F-5; S/S BUMPERGUARDS, S/S WALL GUARDS	--	--	3"	1-1/2"	
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 POP-UP DRAIN, 4" CENTERS	1/2"	1/2"	--	--	3
F-1	ADA SINGLE LEVER LAVATORY FAUCET	DELTA	501/520/523-WFHD	THERMOSTATIC MIXING VALVE					
		ZURN	SIERRA Z-7440-VP						
F-2	HANDS FREE LAVATORY FAUCET	TOTO	TEL105-D10E	0.5 GPM, SELF-GENERATING VALVE, GRID STRAINER, COVER PLATE	1/2"	1/2"	--	--	
F-3	ADA SINGLE LEVER KITCHEN FAUCET	AMERICAN STANDARD	2021.634	HAND SPRAY CUP STRAINER DRAIN	1/2"	1/2"	--	--	3
F-3	ADA SINGLE LEVER KITCHEN FAUCET	DELTA	400-WFELHHDF	2.5 GPM, 8" CENTERS					
		MOEN	BANBURY 87017						
F-4	ADA TWO-HANDLE WALL-MOUNT SINK FAUCET	DELTA	28T6443	SWING SPOUT MOUNT ON BACKSPLASH	1/2"	1/2"	--	--	
F-4	ADA TWO-HANDLE WALL-MOUNT SINK FAUCET	ZURN	Z-841H1						
		T&S	B-0290						
F-5	JANITOR'S SINK FAUCET	AMERICAN STANDARD	8344.112	VACUUM BREAKER, WALL BRACE, PAIL HOOK, 30" HOSE WITH WALL GRIP, MOP HANGER	3/4"	3/4"	--	--	
F-5	JANITOR'S SINK FAUCET	FIAT	830-AA						
		DELTA	28T9-AC						
F-6	TUB TYPE SINK FAUCET	FIAT	A-1	DECK FAUCET 4" CENTERS	3/4"	3/4"	--	--	
F-6	TUB TYPE SINK FAUCET								
F-7	HANDS FREE LAVATORY FAUCET	TOTO	TEL105-D10E	0.5 GPM, SELF-GENERATING BATTERY, THERMOSTATIC MIXING VALVE, GRID STRAINER	1/2"	1/2"	--	--	
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 CENTER DRAIN 3" THRESHOLD, SHOWER VALVE: SV-1	--	--	2"	1-1/2"	8
SH-2	36"x36" SHOWER BASE	AQUATIC	SB3636	WHITE CERAMIC BASE CENTER DRAIN 3" THRESHOLD, SHOWER VALVE: SV-1	--	--	2"	1-1/2"	8
SV-1	SINGLE LEVER PRESSURE BALANCE SHOWER FAUCET	DELTA	T13H133	1.75 GPM CHROME FINISH SHOWER VALVE	1/2"	1/2"	--	--	11
FD-1	7" ROUND FLOOR DRAIN	WADE	1100STD	NICKEL BRONZE STRAINER DEEP SEAL TRAP	--	--	--	--	
FD-1	7" ROUND FLOOR DRAIN	ZURN	Z-415						
		SMITH	2005						
FS-1	8" SQUARE FLOOR SINK	WADE	9110	6-1/4" DEEP BODY, ENAMELED INTERIOR, SEDIMENT BUCKET, NICKEL BRONZE RIM AND GRATE	--	--	--	--	
FS-1	8" SQUARE FLOOR SINK	ZURN	Z-1910						
		SMITH	3100						
TD-1	TRENCH DRAIN	SMITH	9940-DCG-3	6" WIDE POLYPROPYLENE CHANNEL w/COATED STEEL FRAME RADIUSED BTM 9870-462-DGC DUCTILE IRON SLOTTED...	--	--	4"	--	16
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 OMIT ALL SCREENS AND STRAINERS	--	--	2"	--	
LT-1	SMALL BASKET-STYLE SOLIDS INTERCEPTOR	STRIEM	AA-S	12" WIDE x 12" DEEP, SIDE OUTLET 35 GPM, POLYETHYLENE 1/8" DIAMETER SCREEN PERFORATIONS,	--	--	2"	--	

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ELECTRICAL MASTER SYMBOLS LEGEND				
STANDARD MOUNTING HEIGHTS				
	CONTROLS (TOP OF DEVICE) RECEPTACLES RECEPTACLES (EXTERIOR) RECEPTACLES (GARAGES) RECEPTACLES (ABOVE COUNTER)			
	RECEPTACLES IN EQUIPMENT ROOMS DATA OUTLETS TELEVISION OUTLETS			
	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			
	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER			
ABBREVIATIONS	SECTION REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER			
	MECHANICAL EQUIPMENT DESIGNATION			
LINETYPE LEGEND	EXISTING TO REMAIN			
	NEW WORK			
	DEMOLISH			
LIGHTING	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			
LIGHTING CONTROL DEVICES	SINGLE POLE SWITCH			
	SWITCH, LETTER DESIGNATION AS FOLLOWS:			
	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			
WIRING DEVICES & OUTLETS	CIRCUIT DESIGNATION AS FOLLOWS:			
	LP-1 - 5 LP-1 = ASSOCIATED PANEL 5 = CIRCUIT			
	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			
NURSE CALL	NURSE CALL MASTER STATION			
	NURSE CALL ANNUNCIATION PANEL			
	NURSE CALL SWITCH PANEL			
	NURSE CALL ROOM STATUS CORRIDOR LIGHT - WALL MOUNT			
ELECTRICAL ONE-LINE & RISER DIAGRAM	FEEDER SYMBOL - REFER TO FEEDER SCHEDULE			
	UTILITY METER (AS REQUIRED BY UTILITY)			
	SURGE PROTECTION DEVICE			
	GROUND CONNECTION			
SECURITY	CIRCUIT BREAKER (RATING AS INDICATED)			
	FUSED DISCONNECT SWITCH (RATING AS INDICATED)			
	TRANSFORMER (TYPE AND RATINGS AS INDICATED)			
	AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)			
COMMUNICATION	GENERATOR (RATINGS AS INDICATED)			
	NON-SEPARATELY DERIVED SOURCE SEPARATELY DERIVED SOURCE			
	PANELBOARD, MULTIPLE SECTIONS WHERE SHOWN (REFER TO SCHEDULES)			
FIRE ALARM DEVICES	FIRE ALARM RELAY			
	WATER FLOW SWITCH			
	VALVE TAMPER SWITCH			
	FAN SHUTDOWN RELAY			
FIRE ALARM DEVICES	FIRE ALARM STROBE - WALL MOUNTED			
	FIRE ALARM STROBE - CEILING MOUNTED			
	MANUAL FIRE ALARM PULL STATION			
	FIRE ALARM BELL			
FIRE ALARM DEVICES	FIRE HORN AND STROBE - WALL MOUNTED			
	FIRE HORN			
	FIRE SPEAKER - WALL MOUNTED			
	FIRE SPEAKER - CEILING MOUNTED			
FIRE ALARM DEVICES	FIRE SPEAKER AND STROBE - WALL MOUNTED			
	FIRE ALARM CONTROL PANEL			
	FIRE ALARM ANNUNCIATOR PANEL			
	CARBON DIOXIDE DETECTOR			
FIRE ALARM DEVICES	CEILING SMOKE DETECTOR			
	DUCT SMOKE DETECTOR			
	THERMAL DETECTOR (HEAT)			
	ELECTRIC DOOR HOLDER			
FIRE ALARM DEVICES	FIREMAN'S TELEPHONE OUTLET			
	KNOX BOX			
ELECTRICAL ONE-LINE & RISER DIAGRAM	THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.			

ELECTRICAL GENERAL NOTES:

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



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

REVISIONS:

#	Description	Date
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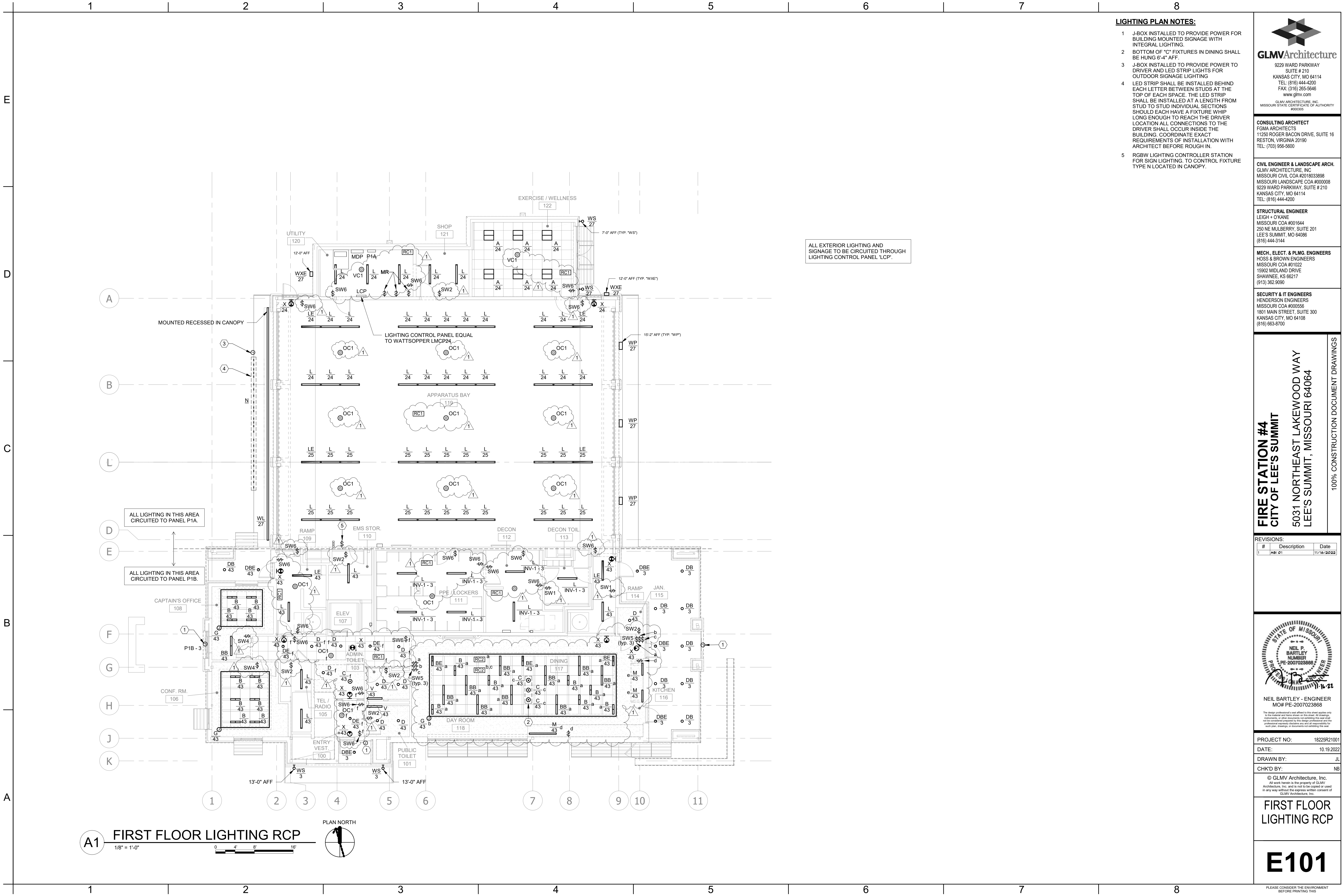
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ELECTRICAL
SYMBOLS
LEGEND

E001

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



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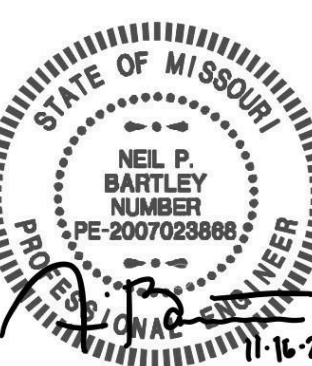
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FIRST FLOOR
LIGHTING RCP

E101

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LIGHTING PLAN NOTES:



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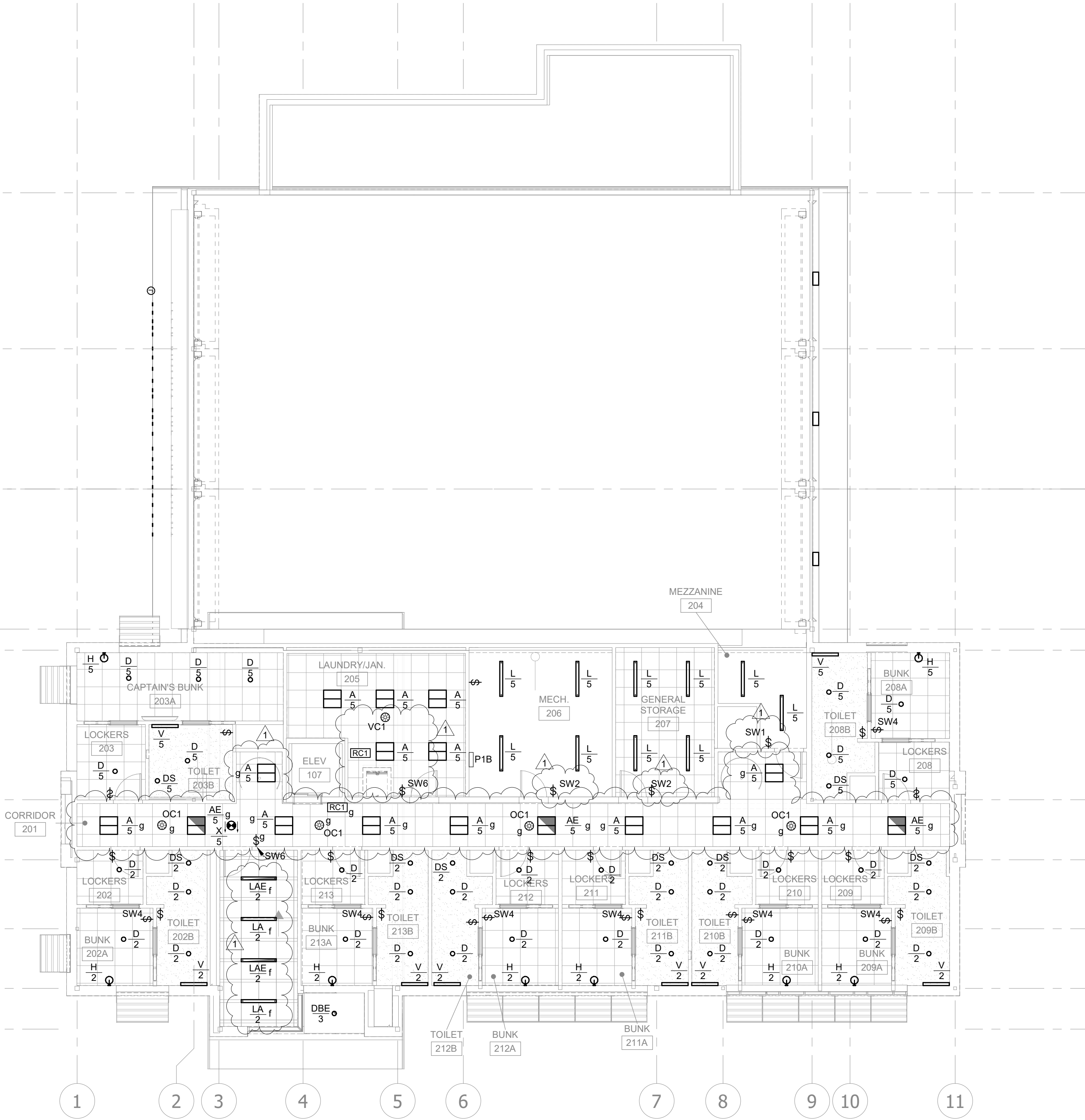
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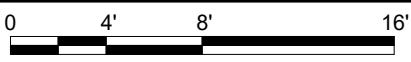
**SECOND FLOOR
LIGHTING RCP**

E102

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



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ELECTRICAL PLAN NOTES:

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



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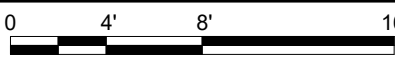
**FIRST FLOOR
POWER PLAN**

E201

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A1 FIRST FLOOR POWER PLAN

1/8" = 1'-0"



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FILE PATH: BIM 360://18225R21001_LeeSummitFireStation_#4 and #5/LSMO_FIRE STATIONS MEP_V19.rvt



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SECOND FLOOR POWER PLAN

E202

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ELECTRICAL PLAN NOTES:

- 1 PROVIDE KNOX BOX.



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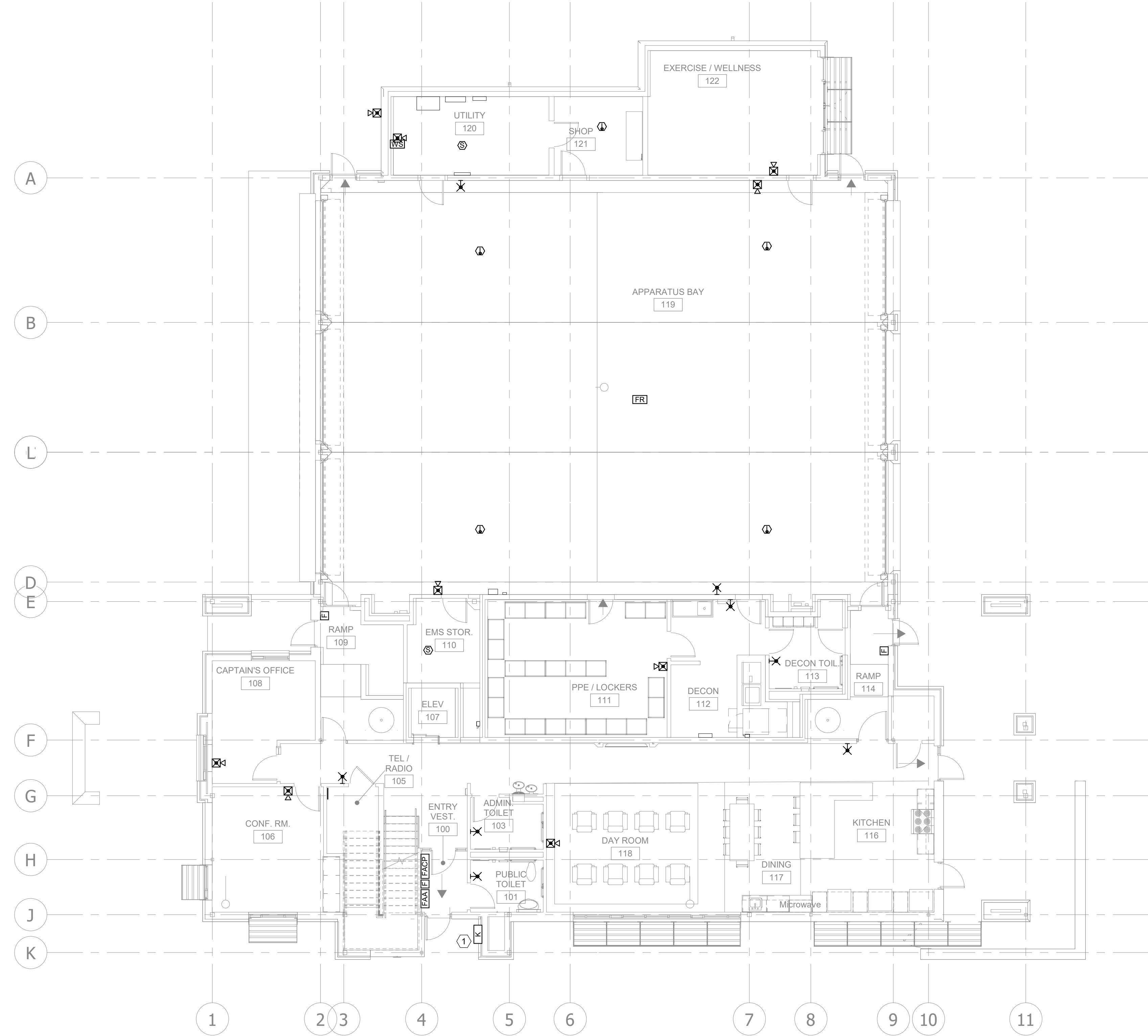
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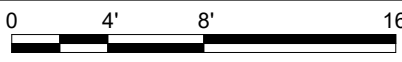
**FIRST FLOOR
FIRE ALARM
PLAN**

E401

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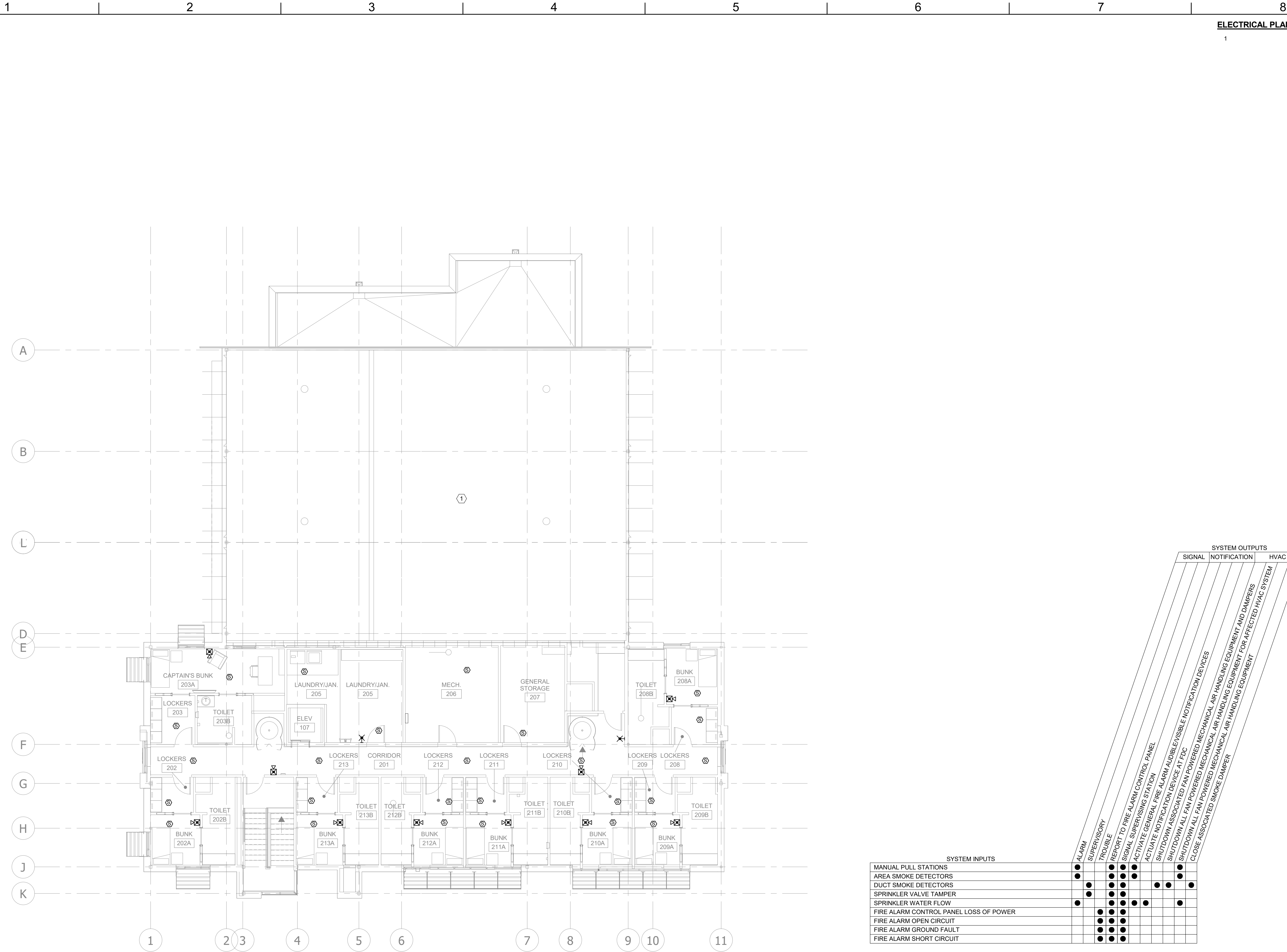
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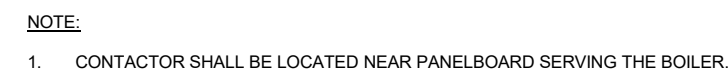
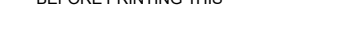
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SECOND FLOOR
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PLAN


E402

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E502

E

D

C

B

A

PANELBOARD: P1A																	
LOCATION: COMPR 121							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	8	10		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	8	10		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	8	10		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											TOTAL CONNECTED LOAD: 67164 VA						
COOLING			0%	0 VA							TOTAL NEC DEMAND: 68169 VA						
HEATING			0%	0 VA							TOTAL CONNECTED CURRENT: 186 A						
LIGHTING		2462 VA	125%	3077 VA							TOTAL NEC DEMAND CURRENT: 189 A						
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 /...

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:

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

PANELBOARD: P1B																		
LOCATION: PERSONNEL...							VOLTS/PHASE 208Y/120V, 3Ph, 4W							EQUIPMENT GROUND BUS				
FED FROM: MDP							MIN AIC RATING: 10 kAIC											
MOUNTING: SURFACE							BUS AMPS: 400 A							SURGE PROTECTION DEVICE				
							MAIN LUG RATING: 400 A											
NOTE: PANEL PROTECTED WITH 300A OCPD																		
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	RECEPTACLE				20 A	1	360	1027			1	20 A			LIGHTING LCKR ALC. 202	2		
3	OUTDOOR LIGHTING				20 A	1			683	268		1	20 A		INV-1	4		
5	SECOND FLOOR LIGHTING				20 A	1					1398	900		1	20 A	ICE MACHINE	6	
7	CAPTAIN OFFICE RECEPTACES				20 A	1	1440	750				1	20 A		RECEPTACLE MECH. 205	8		
9	CONF. ROOM RECEPTACES				20 A	1			1440	1260		1	20 A		TOILET/EMS STOR....	10		
11	TEL/RADIO/RAMP RECEPTACES				20 A	1				1060	540	1	20 A		DAY ROOM RECEPTACES	12		
13	RECEPTACLE DAY ROOM 117				20 A	1	540	1080				1	20 A		CAPTAIN BUNKS RECEPTACES	14		
15	KITCHEN/JAN/RAMP...				20 A	1			900	900		1	20 A		BUNK 202 RECEPTACES	16		
17	KITCHEN RANGE CONTROLS				20 A	1				180	720	1	20 A		LAUNDRY 205 RECEPTACES	18		
19	BUNK 212 AND 213...				20 A	1	1620	1800				1	20 A		BUNK 208 AND 209...	20		
21	BUNK 210 AND 211...				20 A	1			1440	216		2	15 A		FIRST LEVEL VRU	22		
23	MECH/GEN STORAGE...				20 A	1				1080	216	--	--	--	--	--	24	
25	HWH RECIRCULATION PUMP				20 A	1	100	104			2	15 A			--	BS-1	26	
27	WATER HEATER				20 A	1			600	104		--	--	--	--	--	28	
29	TEL/RADIO EF-4				20 A	1				126	1500	1	20 A			EWH-1	30	
31	EWH-2				20 A	1	1500	82				1	20 A			EF-1	32	
33	ELEVATOR LIGHTING				15 A	1			180	1656		1	20 A			EF-2	34	
35	BATHROOM HEATER				20 A	1				1500	37	1	20 A			EF-3	36	
37	2ND LEVEL VRU				15 A	2	624	2867				3	30 A			ELEVATOR	38	
39	--	--	--	--	--	--			624	2867		--	--	--	--	--	40	
41	SITE LIGHTING				20 A	1				777	2867	--	--	--	--	--	42	
43	FIRST FLOOR LIGHTING				20 A	1	1163	1500				1	20 A			WASHING MACHINE	44	
45	LOCKER ROOM RECEPTACES				20 A	1			900	1873		2	30 A		10	10	WASHER/EXTRACTOR...	46
47	SUPPLEMENTAL HEATING RR				20 A	1				1500	1873	--	--	--	--	--	48	
49	FIRE ALARM CONTROL PANEL				20 A	1	300	1500				1	20 A			MICROWAVE	50	
51	RCPT. KITCHEN				20 A	1			360	180		1	20 A			RCPT. KITCHEN	52	
53											1680	1	20 A			MICROWAVE	54	
55	MISCELLANEOUS STAIR 200				20 A	1	1200	360				1	20 A			RECEPTACLE ADMIN...	56	
57	RCPT. KITCHEN				20 A	1			180	360		1	20 A			RECEPTACLE ADMIN...	58	
59	RECEPTACLE JAN. 104				30 A	1				180	720	1	20 A			RCPTS. DAY ROOM	60	
61	DRYER LAUNDRY 205	10	10		20 A	2	1440	400				1	20 A			KITCHEN RANGE HOOD	62	
63	--	--	--	--	--	--			1440	1500		1	20 A			BATHROOM HEATER	64	
65	DRYER DECON 112	10	10		30 A	2				1440	800	1	20 A			DISPOSER	66	
67	--	--	--	--	--	--	1440	750				1	20 A			REFRIGERATOR	68	
69	BATHROOM HEATER				20 A	1			1500	750		1	20 A			REFRIGERATOR	70	
71	BATHROOM HEATER				20 A	1				1500	750	1	20 A			REFRIGERATOR	72	
73	BATHROOM HEATER				20 A	1	1500										74	
75	BATHROOM HEATER				20 A	1			1500								76	
77	BATHROOM HEATER				20 A	1				1500							78	
79								0				--	--	--	--	SPD	80	
81									0			--	--	--	--	--	82	
83										0		--	--	--	--	--	84	
TOTAL LOAD (VA):							25429 VA	23680 VA	25085 VA									
TOTAL AMPS:							214 A	197 A	211 A									
LOAD TYPE		CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES					PANELBOARD TOTALS								
EXISTING LOAD																		
COOLING			0%	0 VA						TOTAL CONNECTED LOAD: 74194 VA								
HEATING			0%	0 VA						TOTAL NEC DEMAND: 71970 VA								
LIGHTING		3244 VA	125%	4055 VA						TOTAL CONNECTED CURRENT: 206 A								
RECEPTACES		20370 VA	75%	15185 VA						TOTAL NEC DEMAND CURRENT: 200 A								
MOTORS (125% OF LARGST)		14953 VA	114%	17103 VA														
KITCHEN EQUIPMENT																		
MISCELLANEOUS		17370 VA	100%	17370 VA														
SUPPLEMENTAL HEAT		15000 VA	100%	15000 VA														
SIGNAGE																		

LIGHTING DEVICE SCHEDULE

DEVICE TAG	MANUFACTURER	MODEL	DESCRIPTION	DIMMING	ON MODE	SENSOR TYPE	TIME DELAY	MAX LOAD	MOUNTING TYPE	VOLTAGE	NOTES
AUXILIARY DEVICES											
RC1	WATTSTOPPER	LMRC-10X	2 ZONE CEILING PLENUM ROOM CONTROLLER	--				20 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		AUTO-ON		30 MIN		CEILING	24	
VC1	WATTSTOPPER	DT-300	LOW VOLTAGE CEILING MOUNTED DUAL TECH SENSOR IN VACANCY MODE		MANUAL-ON		30 MIN		CEILING	24	
OCCUPANCY SENSOR SWITCH											
SW1	WATTSTOPPER	DW-100	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN OCCUPANCY MODE	--	AUTO-ON		30 MIN	20 A	WALL	120	4
SW2	WATTSTOPPER	DW-100	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN VACANCY MODE	--	MANUAL-ON		30 MIN	20 A	WALL	120	4
SW4	WATTSTOPPER	DW-311	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN VACANCY MODE WITH DIMMING CAPABILITIES	0-10V	MANUAL-ON		30 MIN	20 A	WALL	120	2
WALL SWITCHES											
SW5	WATTSTOPPER	LMSW-105	LOW VOLTAGE WALL SWITCH WITH DIMMING CAPABILITIES (5 BUTTON)	0-10V					WALL	24	1
SW6	WATTSTOPPER	LMSW-102	LOW VOLTAGE ON/OFF WALL SWITCH (2 BUTTON)	--					WALL	24	3

- 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 CORRIDORS SHALL BE SET TO EXTENDED 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%
 - BUTON 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

LIGHT FIXTURE SCHEDULE

FIXTURE TAG	MANUFACTURER	MODEL	EQUIVALENT MANUFACTURER	TYPE	LUMENS	COLOR TEMP	CRI	DIMMING TYPE	MOUNTING TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
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 EMERGENCY BACKUP 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	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 EMERGENCY BACKUP 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	VISTA LIGHTING	1188-B-NS-35-C-MV-CX-ND-B34		LED	3000	3000 K	85	--	IN-GRADE	120	37	41	CAST-IN PLACE IN-GRADE LIQUID TIGHT FLAGPOLE FIXTURE	2,4,7
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-U NV		LED	3800	3000 K	80	0-10V	SUSPENDE D	120	31	35	4' LENSED SUSPENDED STRIP FIXTURE WITH EMERGENCY BACKUP BATTERY	
M	TASK LIGHTING	SA9Q-F30		LED	200	3000 K	80	0-10V	SURFACE	120	2	2	UNDERCABINET LINEAR FIXTURE. LUMENS PER FOOT, WATTS PER FOOT.	
N	KELVIX	RGBW-1-WR-24V		LED	425		90	0-10V	SURFACE	120	96	96	COLOR CHANGING LIGHTING FOR SIGN LETTERS	11
S1	LITHONIA	DSX1 LED P4 30K T4M MVOLT		LED	13165	3000 K	80	--	POLE	120	125	139	POLE MOUNTED SITE LIGHTING FIXTURE	
S2	LITHONIA	DSX1 LED P4 30K T4M MVOLT HS		LED	13165	3000 K	80	--	POLE	120	125	139	POLE MOUNTED SITE LIGHTING WITH BACKLIGHT SHEILD FIXTURE	2,10
V	HUBBELL	3L-W-ID-LPA-3-03-SOF-30K-I030-D030-U NV		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.
10. POLE MOUNT FIXTURE AT 25'-0" ABOVE GRADE.
11. PROVIDE FIXTURES WITH CH-409-WH ALUMINUM MOUNTING CHANEL WITH LENS. HLV96 90W INTERIOR RATED DRIVER (2 REQUIRED), AND RFC-A-RGBW-3S-W-W WALL CONTROLLER. CONTRACTOR SHALL VERIFY LENGHTS REQUIRED WITH ARCHITECT AND STRUCTURAL FRAMING. TWO DRIVERS REQUIRED SPLIT TOTAL LENGTH OF LED LIGHTING EVENLY BETWEEN THE TWO.

- 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.

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



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NEIL BARTLEY - ENGINEER
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DATE:	10.19.2022
DRAWN BY:	JL
CHK'D BY:	NB

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MARK D. MAURER

E

D

C

B

A

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

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

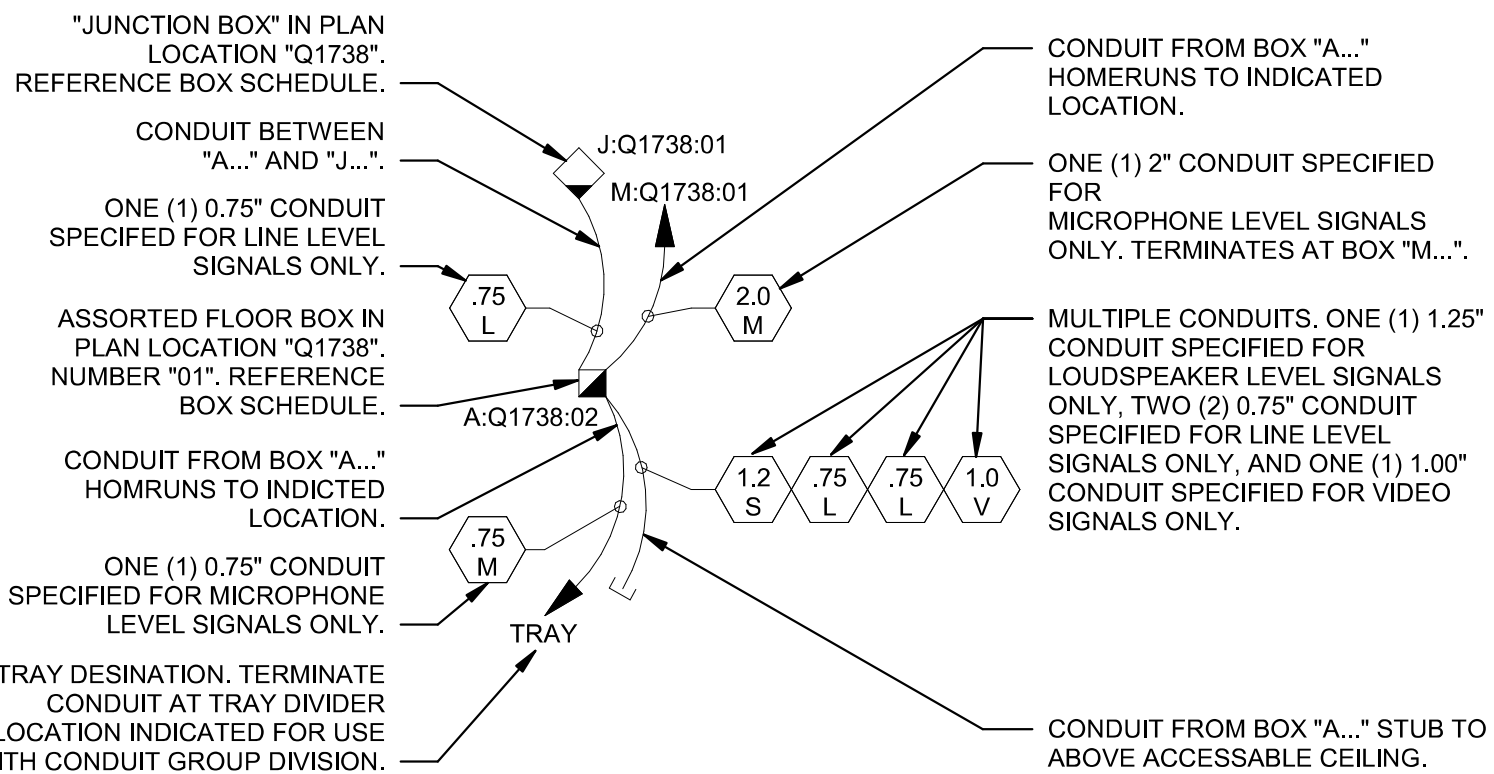
CONDUIT ROUTING AND SEPARATION

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

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

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

PLAN BOX & CONDUIT EXAMPLE

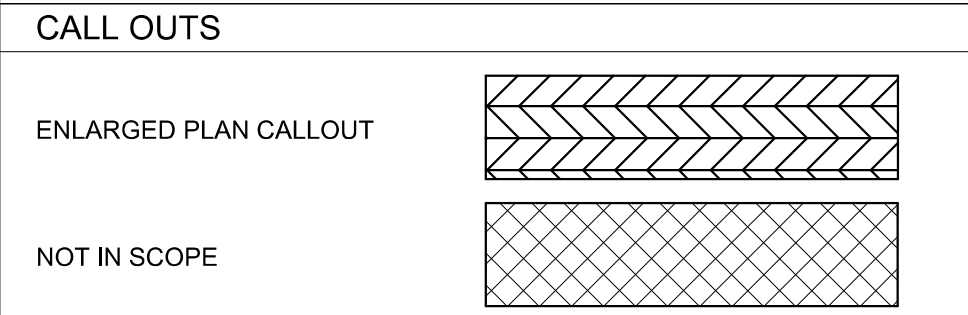
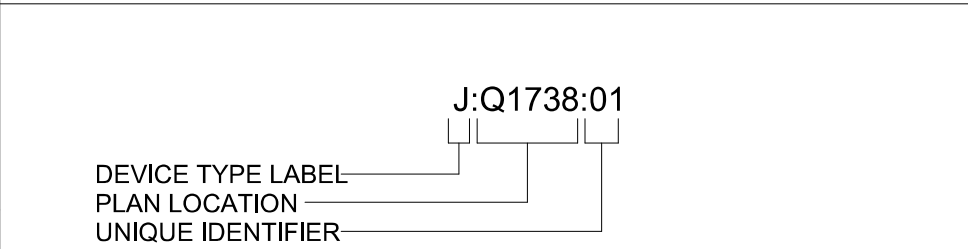


NOTE: FOR TYPICAL BOXES, REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INSTRUCTIONS. FOLLOW CONDUIT REQUIREMENTS AS LISTED IN SCHEDULE AND ANY ADDITIONAL NOTES AS INDICATED ON PLANS.

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

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

LABEL STANDARD



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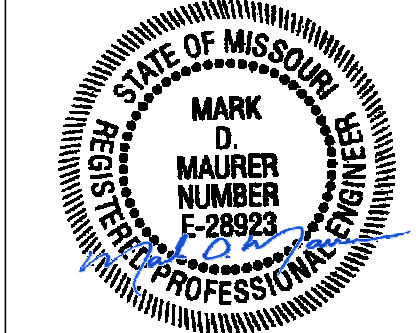
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LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

#	Description	Date
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10/19/2022

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

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AUDIO-VIDEO
GENERAL NOTES

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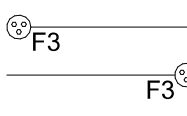
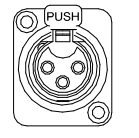
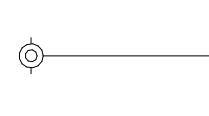
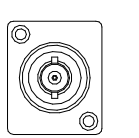
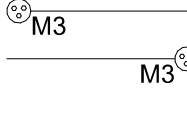
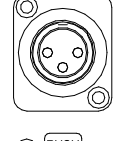


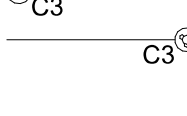
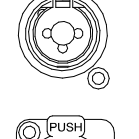

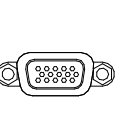
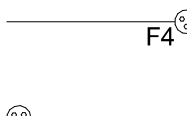
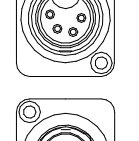

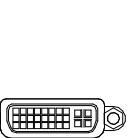
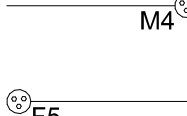
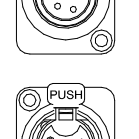
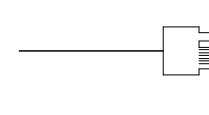

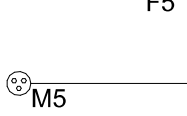
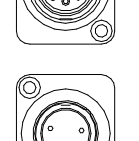
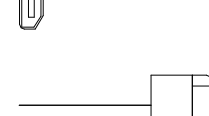


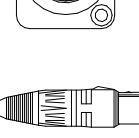

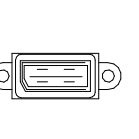
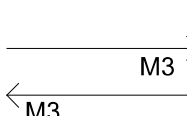
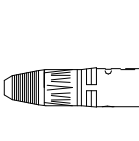
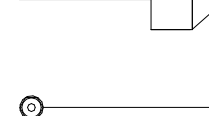
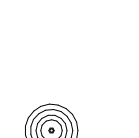

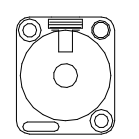
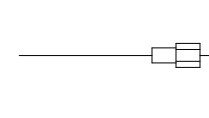

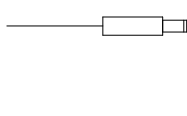
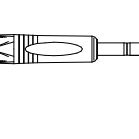



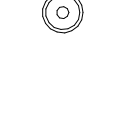

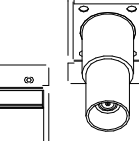
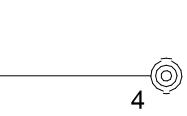
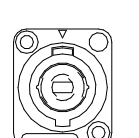

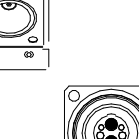
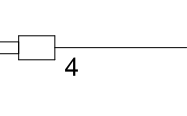
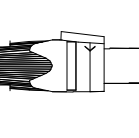
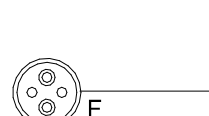
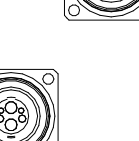
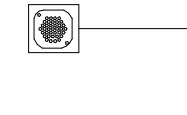
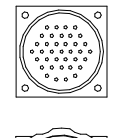

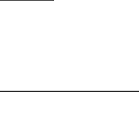
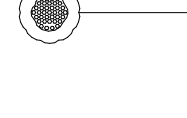
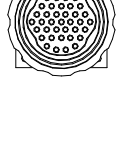

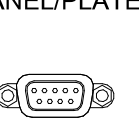






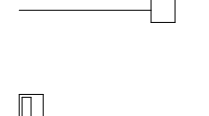
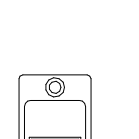

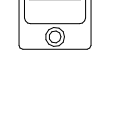
D

C

B

A

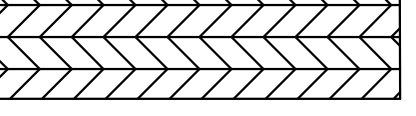
AUDIO-VIDEO SYMBOLS

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			RGBHV HD-15 PANEL MOUNT CONNECTOR
		MALE 4-PIN XLR PANEL MOUNT CONNECTOR			RGBHV 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

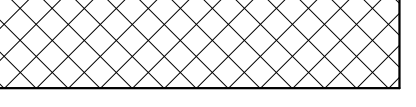
NOTE: PANEL & PLATE CONNECTORS ARE NOT SHOWN TO SCALE.

CALL OUTS

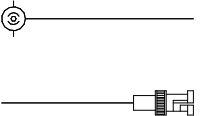
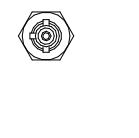
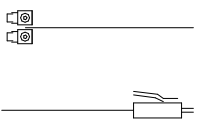
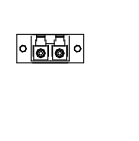
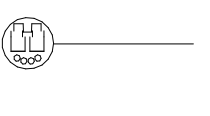
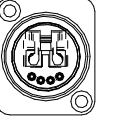
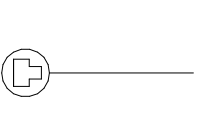
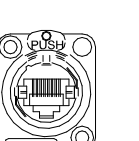

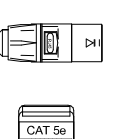

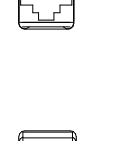

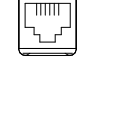

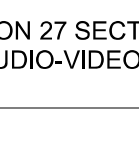

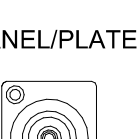

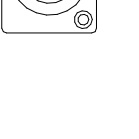

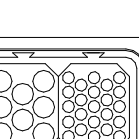

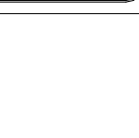
ENLARGED PLAN CALLOUT







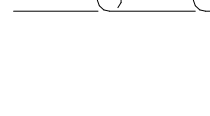
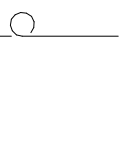





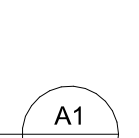
NOT IN SCOPE


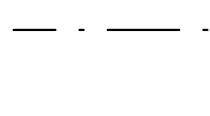


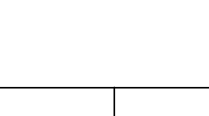



NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

DATA		
SIGNAL FLOW	PANEL/PLATE	DESCRIPTION
		ST FIBER PANEL MOUNT CONNECTOR
		ST FIBER CABLE MOUNT CONNECTOR
		LC FIBER PANEL MOUNT CONNECTOR
		LC FIBER CABLE MOUNT CONNECTOR
		HYBRID FIBER PANEL MOUNT CONNECTOR
		HYBRID FIBER CABLE MOUNT CONNECTOR
		UTP PANEL MOUNT CONNECTOR
		UTP CABLE MOUNT CONNECTOR
		RJ-45 STANDARD PANEL MOUNT CONNECTOR
		RJ-45 STANDARD CABLE MOUNT CONNECTOR
		RJ-11 PANEL MOUNT CONNECTOR
		RJ-11 CABLE MOUNT CONNECTOR

NOTE: REFER TO DIVISION 27 SECTION "TELECOMMUNICATIONS REQUIREMENTS FOR AUDIO-VIDEO SYSTEMS" FOR ADDITIONAL INFORMATION

AUDIO-VIDEO		
SIGNAL FLOW	PANEL/PLATE	DESCRIPTION
		FEMALE RCA PANEL MOUNT CONNECTOR
		MALE RCA CABLE MOUNT CONNECTOR
		FEMALE PANEL MOUNT MULTIPIN CONNECTOR
		FEMALE CABLE MOUNT MULTIPIN CONNECTOR
		MALE CABLE MOUNT MULTIPIN CONNECTOR
		PATCH JACK PLUG

DEVICES AND CONNECTIONS		
SIGNAL FLOW	DESCRIPTION	
	CONNECTION TO CHASSIS GROUND	
	RUBBER JACKETED EXTENSION CABLE	
	PARALLEL CONNECTION OR CHANGE IN WIRE TYPE	
	ANTENNA	
	PATCH POINT, CONNECT TO PATCH PANEL, PER SPECIFICATION REQUIREMENTS	
	CONNECTION BUBBLE UPPER DESIGNATION REFERS TO CONNECTION LABEL LOWER DESIGNATION REFERS TO THE SHEET NUMBER ON WHICH THE CONNECTION IS CONTINUED.	
	EQUIPMENT / TERMINATIONS WITHIN A COMMON LOCATION AS LABELED.	
	ALTERNATE OUTLINE	

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 UNBALANCED	22 AWG	100m
AN	AUDIO TRANSPORT OVER IP STANDARD PROTOCOL REQUIRING STP	RG-6	1000m
CC	RELAY OR CONTACT CLOSURE CONTROL SIGNAL	CAT6 STP	90m
Com	CONTROL SIGNAL (RS232, RS422, RS485) LOW CAPACITANCE CONTROL CABLE FOR LONG RUNS	22 AWG	
Cii	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
GPIO	GPIO/GPO/GPIO - GENERAL PURPOSE INPUT AND/OR OUTPUT	(NOTE 4)	
H	HDMI VIDEO/AUDIO SIGNAL	(NOTE 3)	
HOSDI	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	RGBHV VIDEO SIGNAL	PREMADE	25'
Ref	REFERENCE/SYNC/BLACK - BLACK BURST OR TRI-LEVEL SYNCHRONIZATION	RG-59	
RF	RADIO FREQUENCY	RG-59	IN RACK
	RF WIRELESS MIC ANTENNA (-5dB @ 800MHz NO AMP)	RG-6X	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.		

SIGNAL FLOW BLOCK LEGEND

Block Description		SPECIFICATION REFERENCE
Y/S/V 1	Y/S/V 1/2	DEVICE IDENTIFICATION AND LABEL
M/L 1	St 1	
Y/S/V 2	Y/S/V 3	
M/L 2	St 2	SIGNAL TYPE (TYPICAL) SEE WIRE TYPE AND ABBREVIATIONS SCHEDULE
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#		PRODUCT REFLECTING BASIS OF DESIGN

VARIES PER DEVICE

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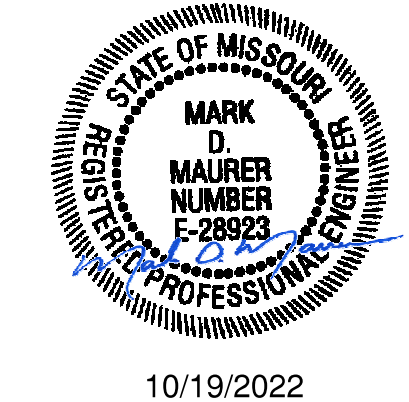
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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

#	Description	Date
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10/19/2022

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

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AUDIO-VIDEO GENERAL SYMBOLS

TA001

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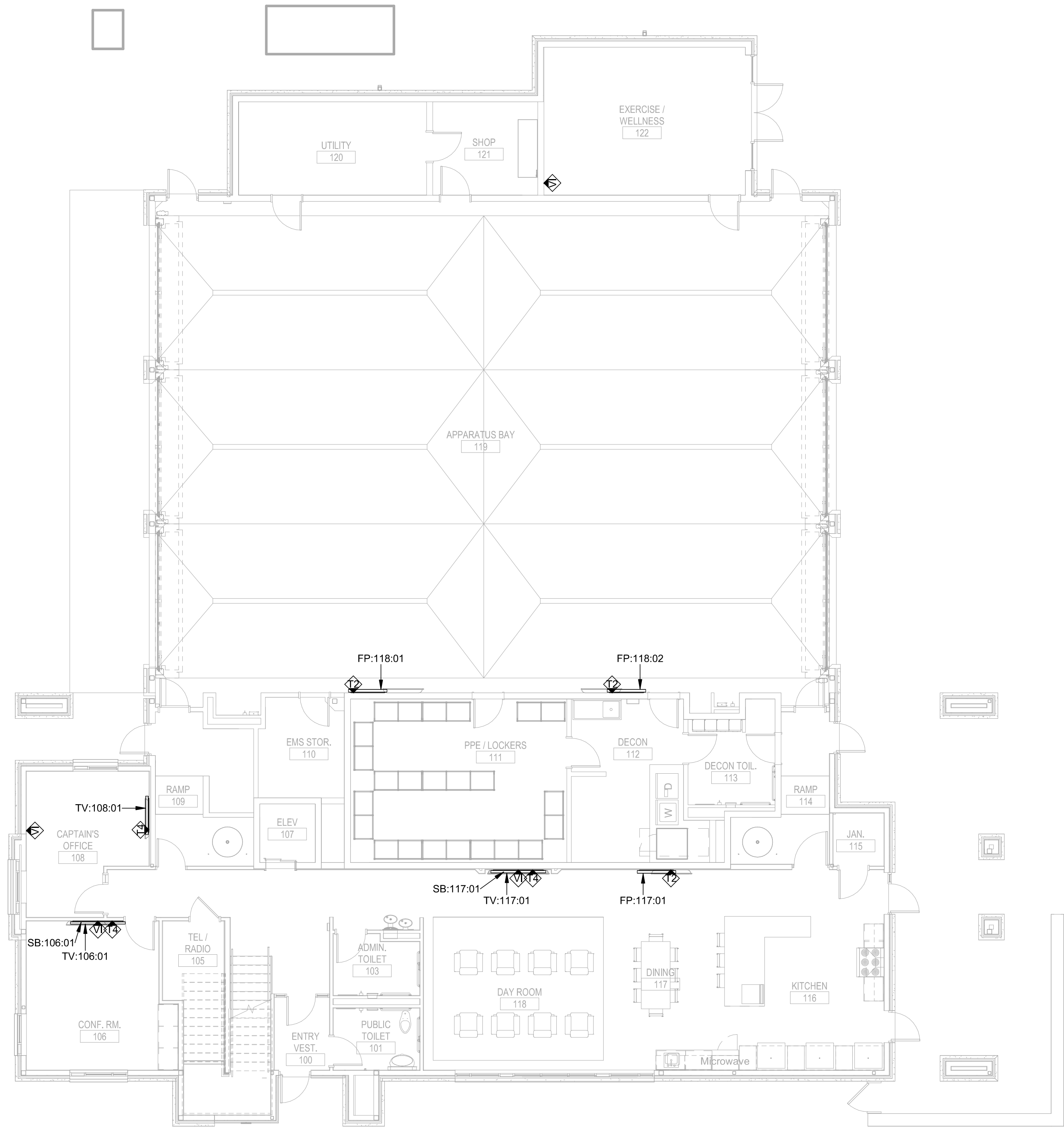
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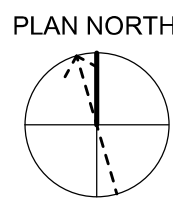
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A1 AUDIO VIDEO LEVEL 1 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'



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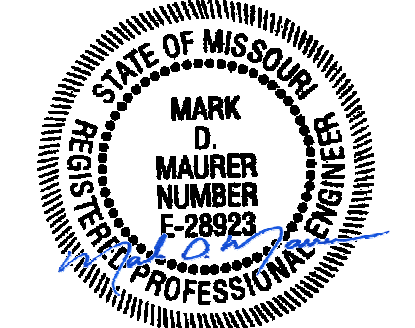
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DATE: 10.19.2022
DRAWN BY: J.ROSE
CHK'D BY: M.MAURER

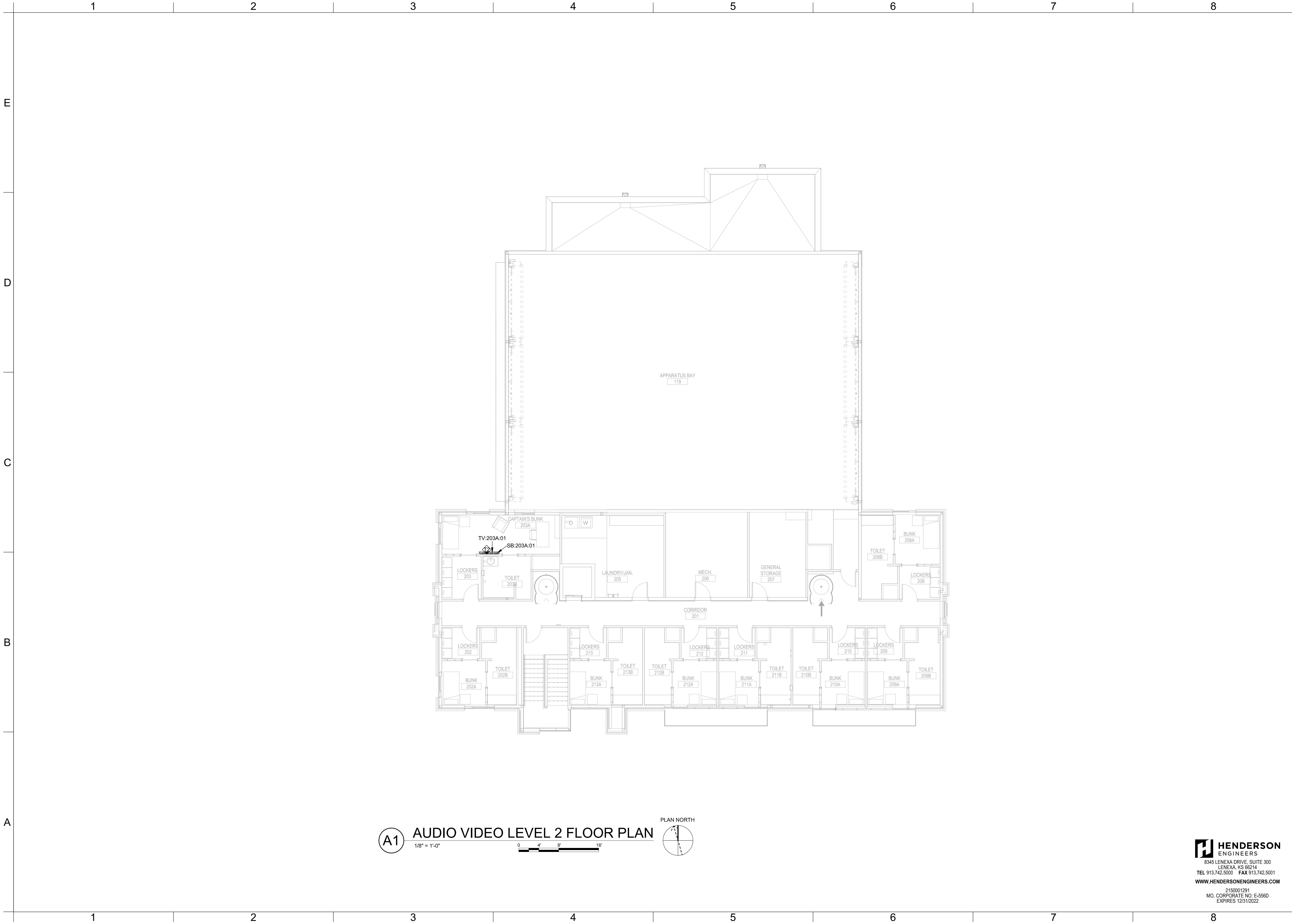
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AUDIO-VIDEO
LEVEL 1 PLAN

TA101

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**AUDIO-VIDEO
LEVEL 2 PLAN**

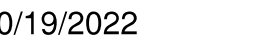
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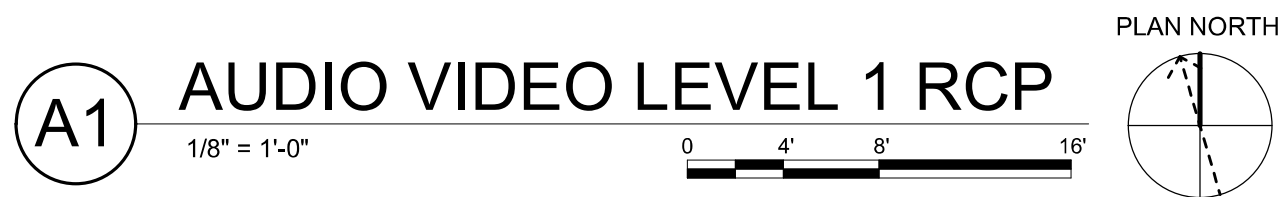
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E

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	

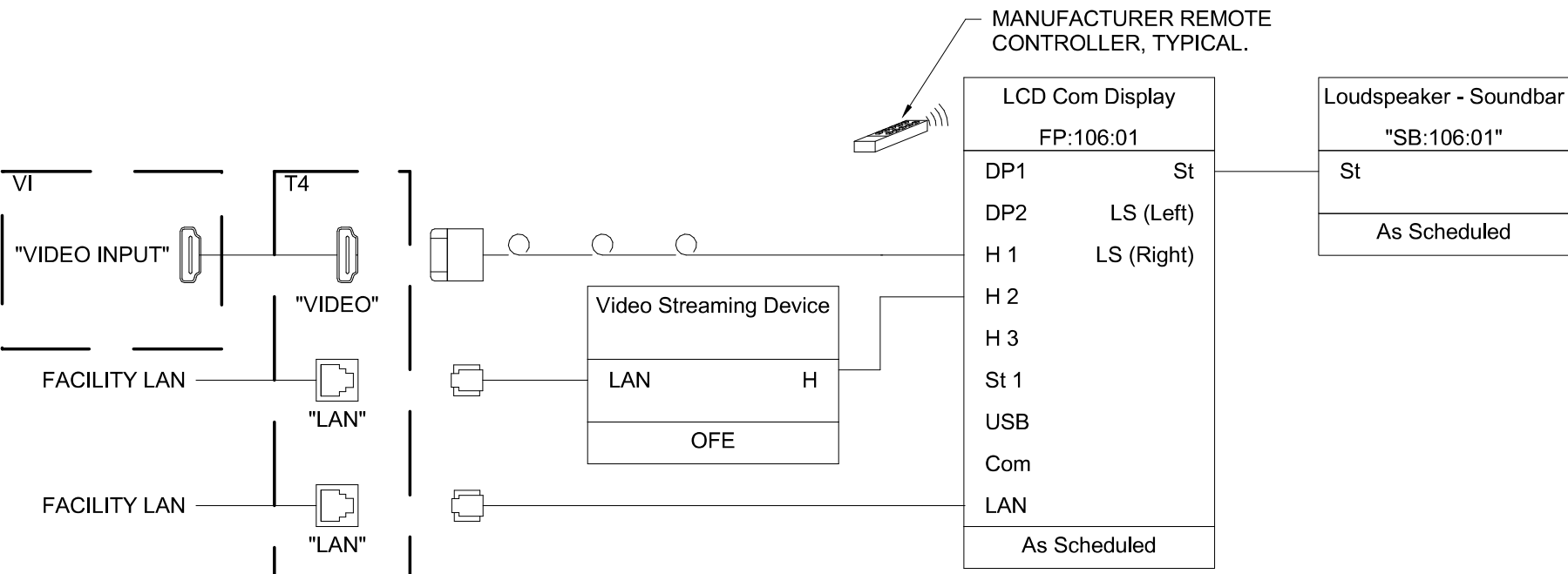
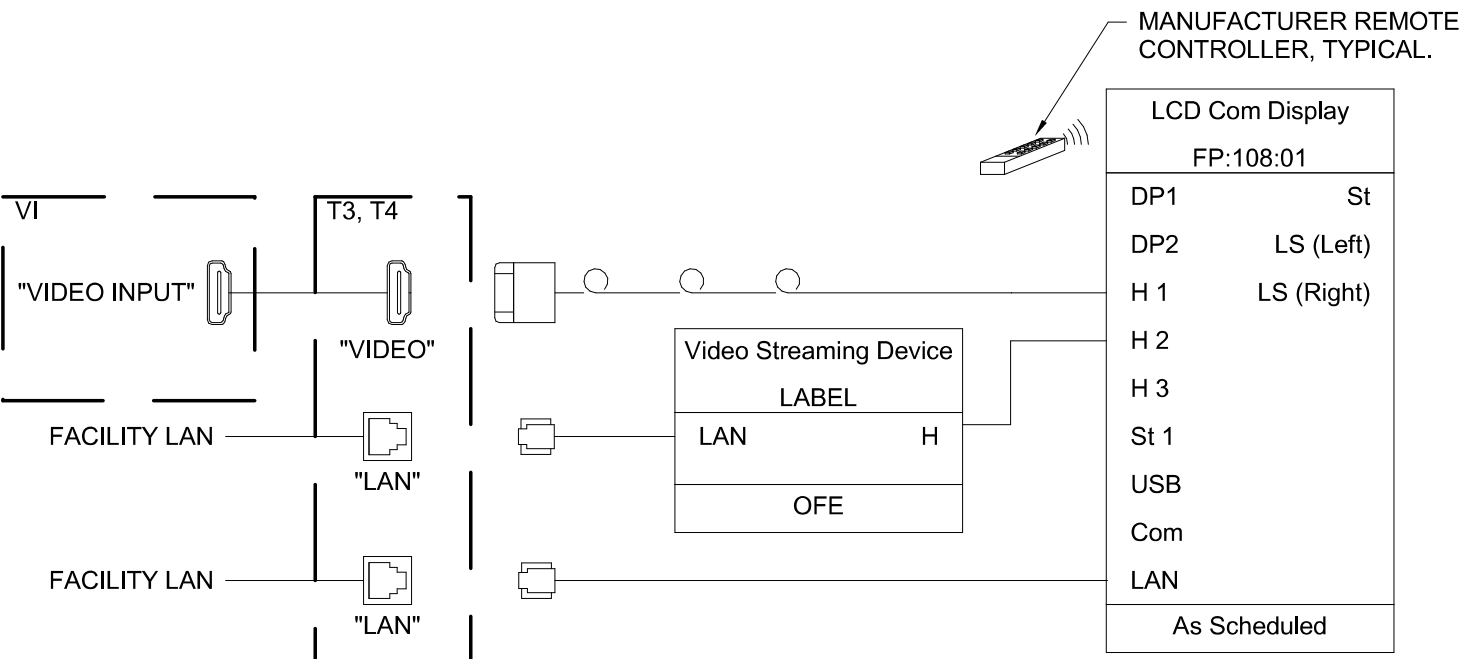
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AUDIO-VIDEO FLAT PANEL DISPLAY SCHEDULE									
DISPLAY PROPERTIES				MOUNTING REQUIREMENTS			DISPLAY RESPONSIBILITY		
ID	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT AFF. (CENTER OF DISPLAY)	TYPE	FURNISHED BY	INSTALLED BY	PROVIDED BY	NOTES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

C



B

B1

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)

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

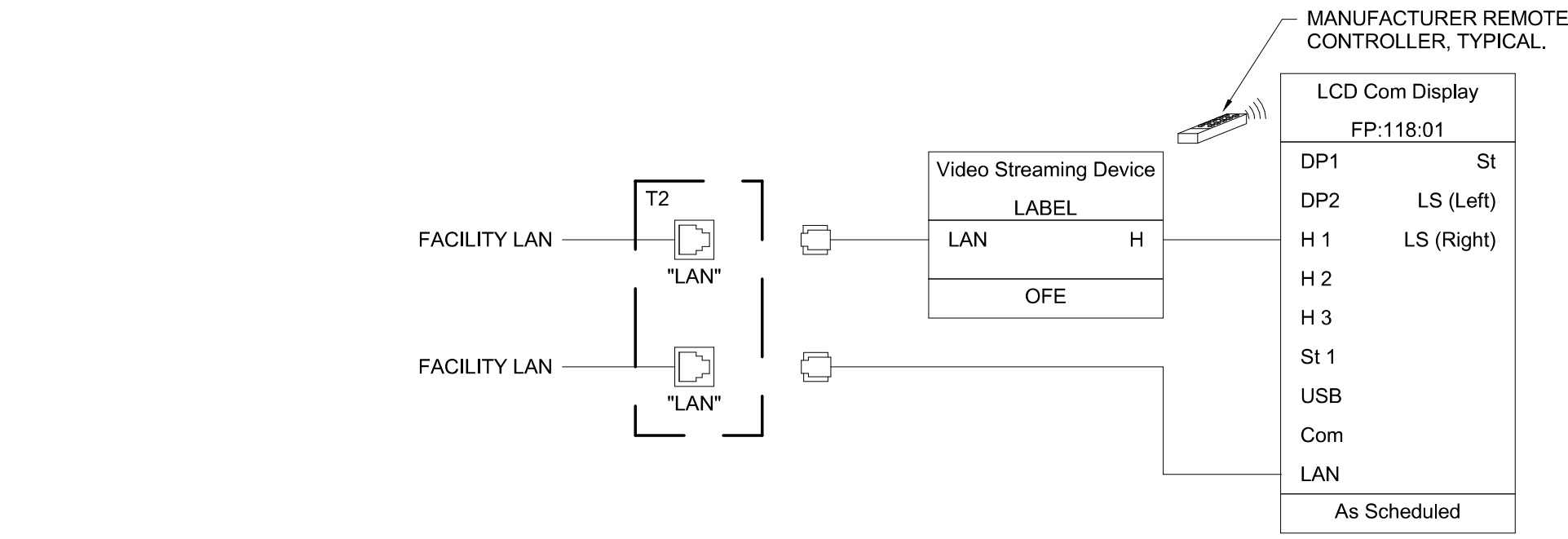
B4

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

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

A

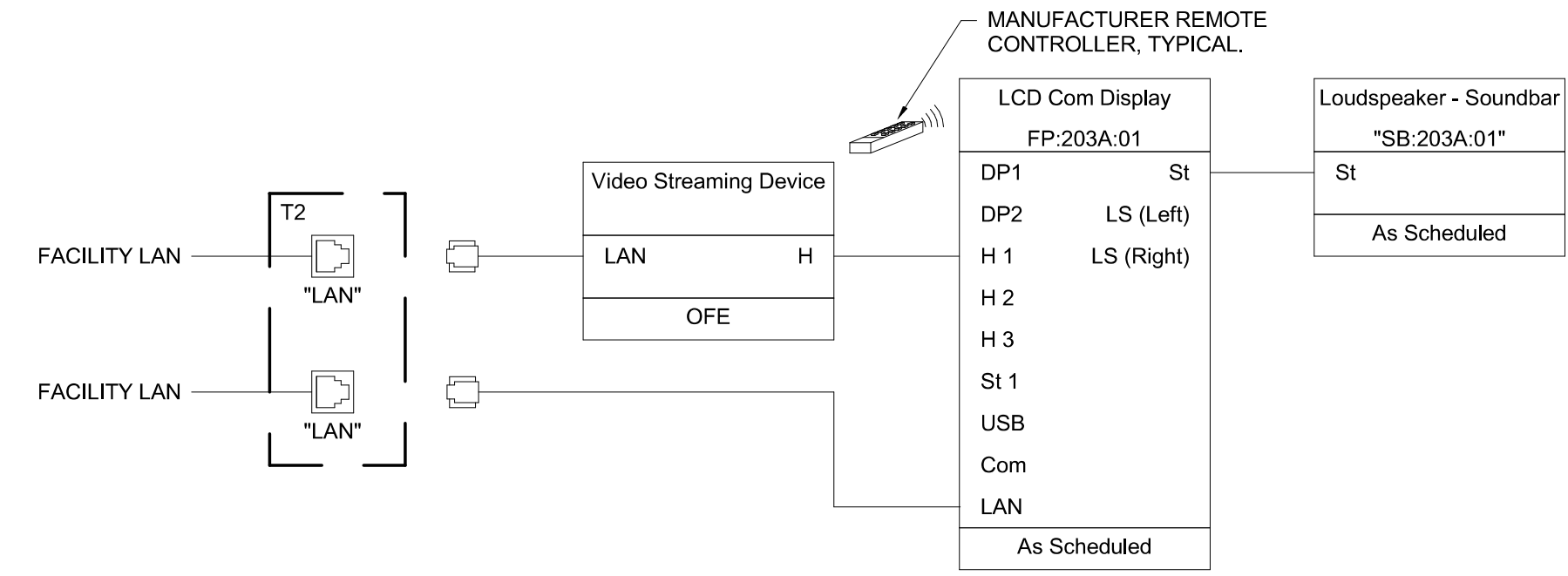


A1

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)

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



A4

NOT TO SCALE

CAPTAIN'S BUNK 203 DISPLAY

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100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:		
#	Description	Date



MARK D. MAURER
NUMBER F-28923
PROFESSIONAL ENGINEER
STATE OF MISSOURI

10/19/2022

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

AUDIO-VIDEO
SCHEDULES &
SIGNAL FLOWS

TA600

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)
TELEPHONE WALL OUTLET (CENTERLINE)	48"
DATA WALL OUTLET (CENTERLINE)	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
GC	GENERAL CONTRACTOR	TBD	TO BE DETERMINED
GYP	GYPSON BOARD	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
HC	HORIZONTAL CROSS-CONNECT	TR	TYPICAL
HCM	HORIZONTAL CABLE MANAGER	UNO	UNLESS NOTED OTHERWISE
HH	HAND HOLE	UL	UNDERWRITER LABORATORIES, INC.
HZ	HERTZ	UPS	UNINTERRUPTIBLE POWER SUPPLY
IMC	INTERMEDIATE METAL CONDUIT	U/UTP	UNSHIELDED TWISTED PAIR
IP	INTERNET PROTOCOL	V	VOLTS
ISP	INTERNET SERVICE PROVIDER	VCN	VERTICAL CABLE MANAGER
ISP	INSIDE PLANT CABLE	W	WIRE
JB	JUNCTION BOX	WAN	WIDE AREA NETWORK
J-BOX	JUNCTION BOX	WAO	WORK AREA OUTLET
		WAP	WIRELESS ACCESS POINT
		WP	WEATHER PROOF
		WR	WEATHER RESISTANT
		WT	WATERTIGHT
		XP	EXPLOSION-PROOF

ANNOTATION

	TECHNOLOGY PLAN CALLOUT
	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
	CONNECTION POINT OF NEW WORK TO EXISTING
	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER
	SECTION CUT DESIGNATION
	DEDICATED EQUIPMENT ACCESS TILE
	ACCESS PANEL

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,D6/TN500
▽ 2D	DATA WALL OUTLET	2	0	A3,D6/TN500
▽ 2D, TV	DATA WALL OUTLET FOR AV DISPLAY, MOUNT AT 60" AFF	2	0	B6/TN500
▽ WAP	DATA WALL OUTLET FOR WIRELESS ACCESS POINT, MOUNT AT 120" AFF	1	0	A3,D6/TN500
▽ W, 1D	TELEPHONE, VoIP WALL OUTLET	1	0	A6/TN500
▽ 2D, ELEV	DATA WALL OUTLET FOR ELEVATOR	2	0	D6/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

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

- READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS.
- 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.
- 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.
- 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.
- 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 - "FIRESSTOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM.
- BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALLS SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, AND GC PRIOR TO ORDERING THE PRECAST WALLS.
- 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.
- 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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FIRE STATION #4
CITY OF LEE'S SUMMIT

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LEE'S SUMMIT, MISSOURI 64064

100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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10/19/2022

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

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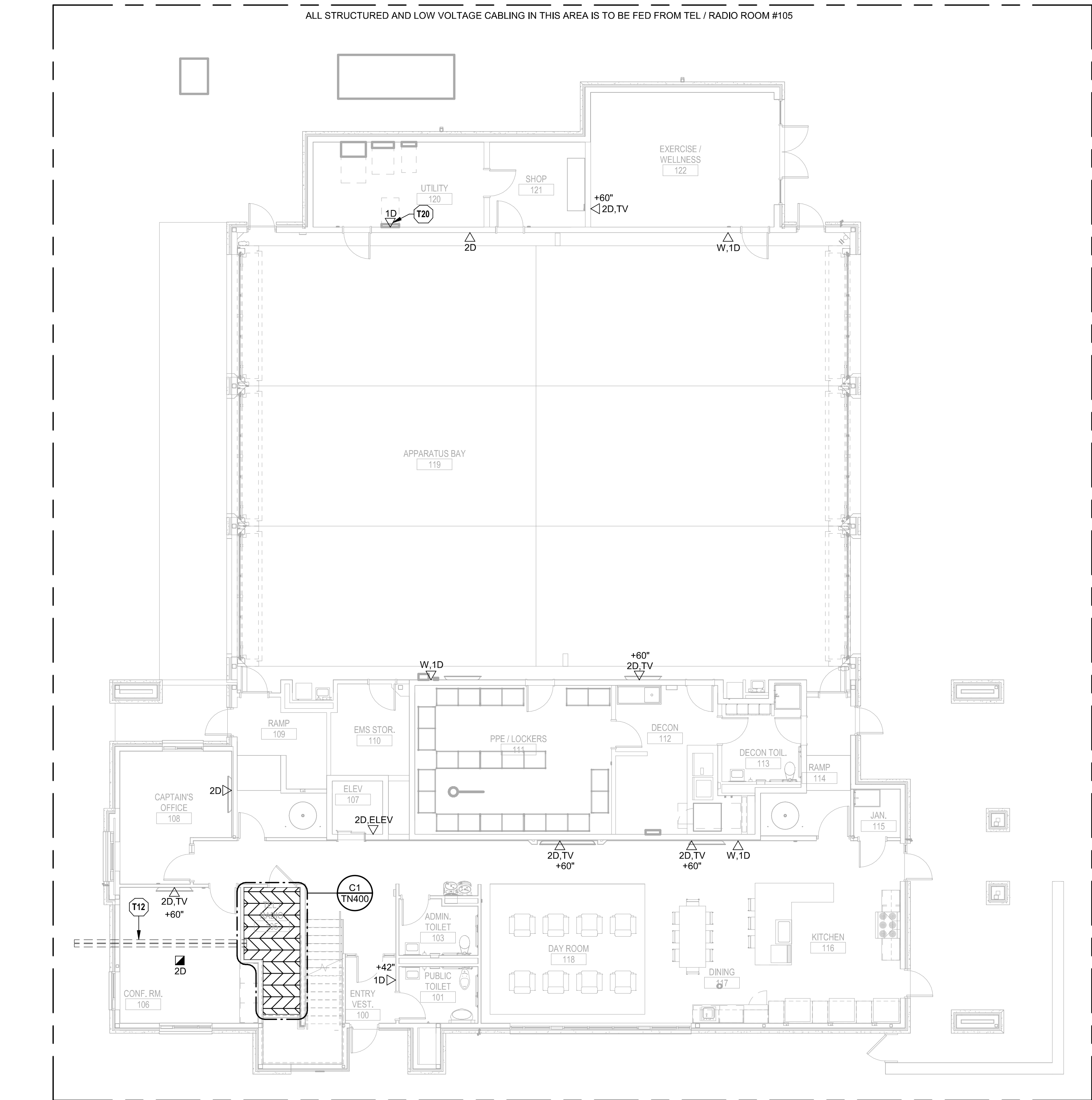
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(A1) TECHNOLOGY LEVEL 1 FLOOR PLAN
1/8" = 1'-0"

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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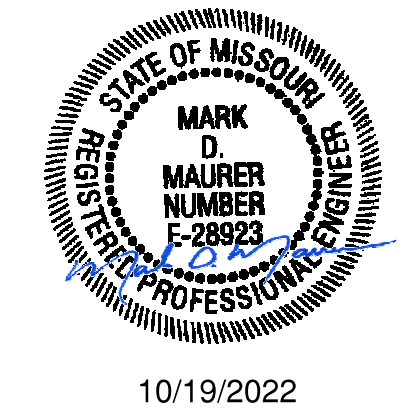
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REVISIONS:

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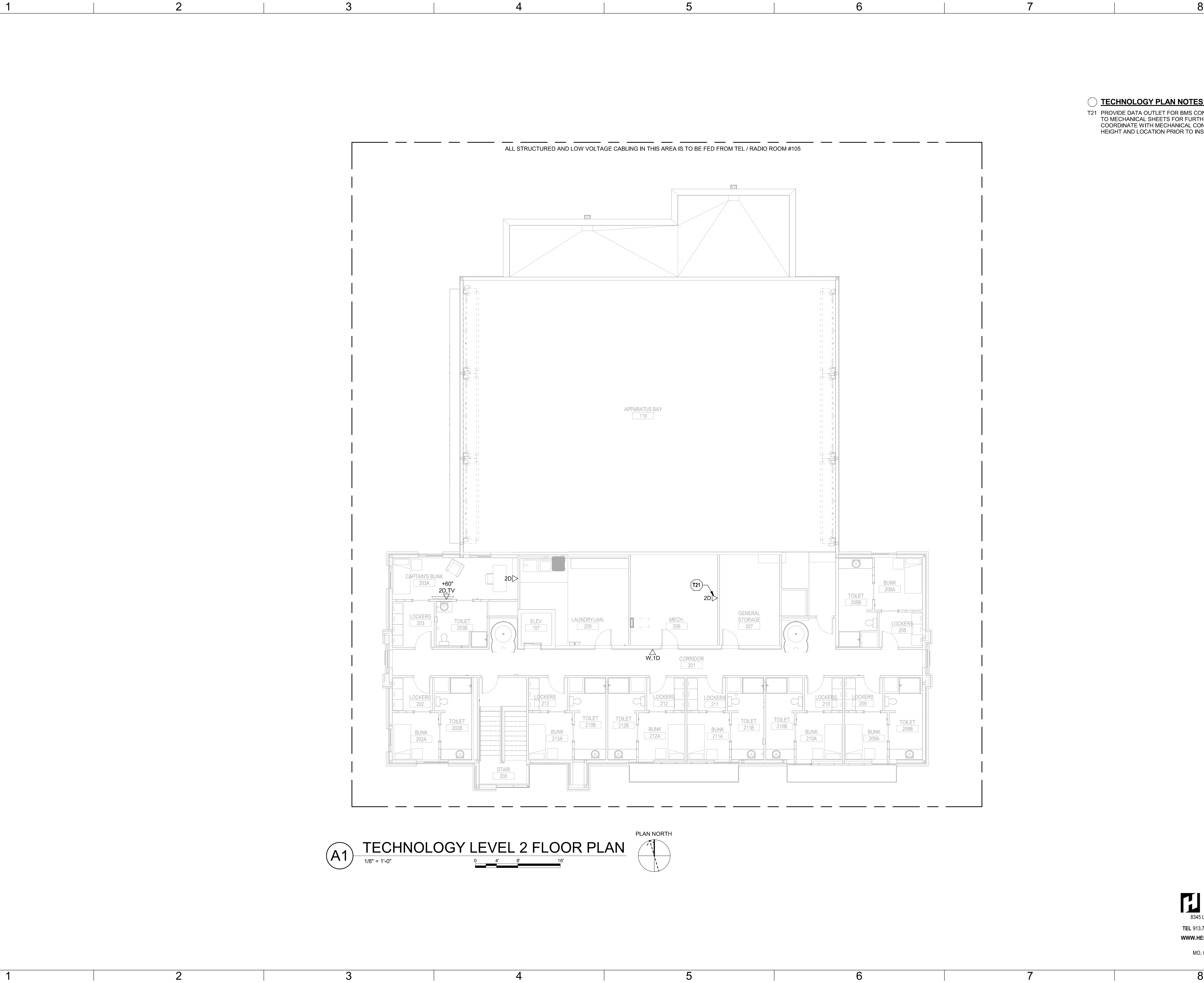
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TECHNOLOGY PLAN NOTES:
T21 PROVIDE DATA OUTLET FOR BMS CONTROL PANEL. REFER TO MECHANICAL SHEETS FOR FURTHER INFORMATION. COORDINATE WITH MECHANICAL CONTRACTOR ON EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.

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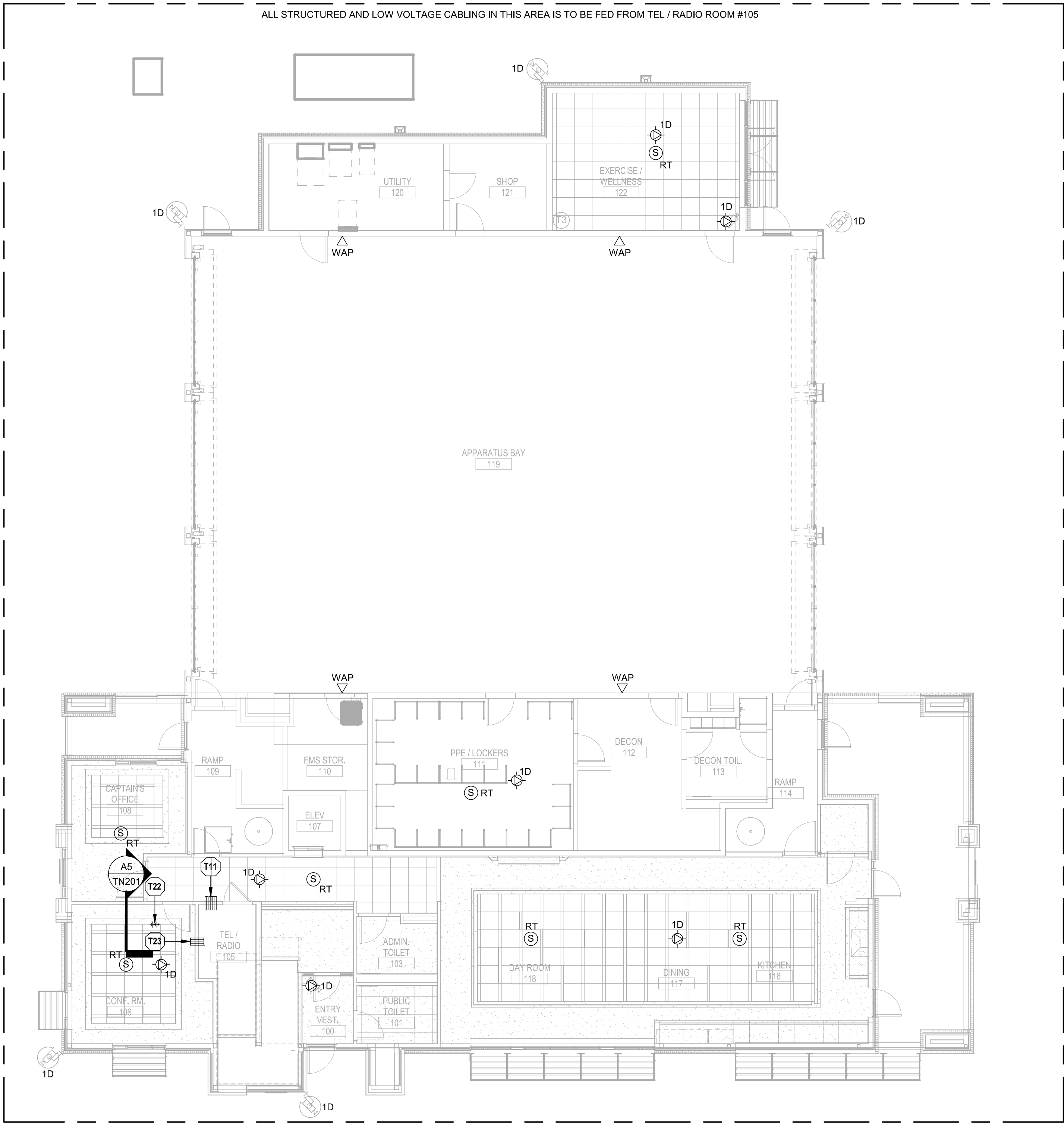
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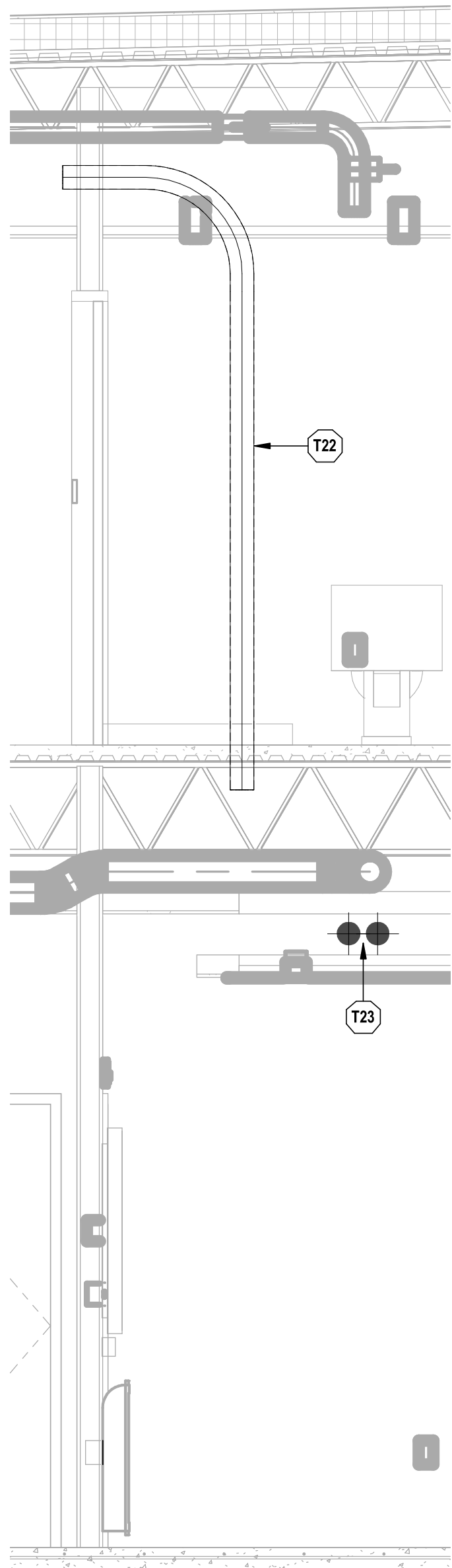
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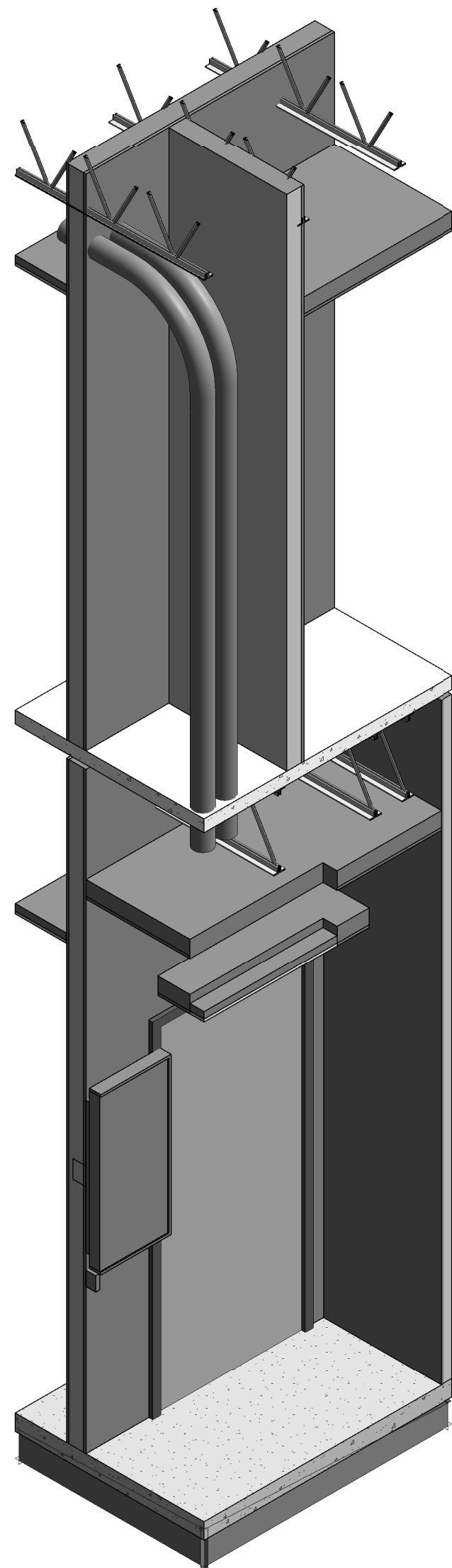
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A1 TECHNOLOGY LEVEL 1 RCP
1/8" = 1'-0"



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



A7 LEVEL 2 CONDUIT PATHWAY
1/2" = 1'-0"

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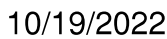
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**TECHNOLOGY
LEVEL 1 RCP**

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

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

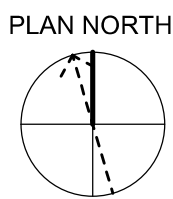


ALL STRUCTURED AND LOW VOLTAGE CABLING IN THIS AREA IS TO BE FED FROM TEL / RADIO ROOM #105

(A1) TECHNOLOGY LEVEL 2 RCP

1/8" = 1'-0"

0 4' 8' 16'



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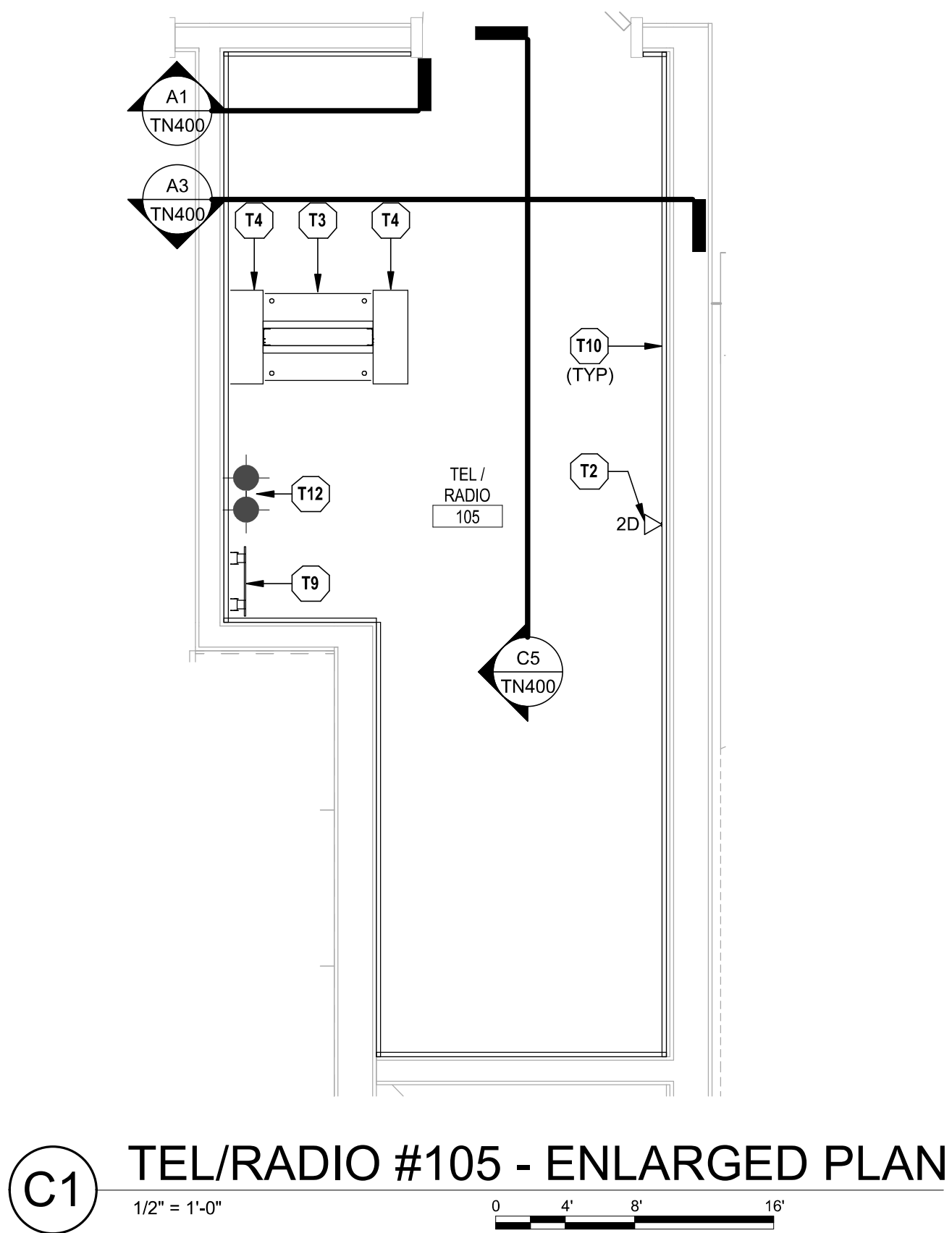
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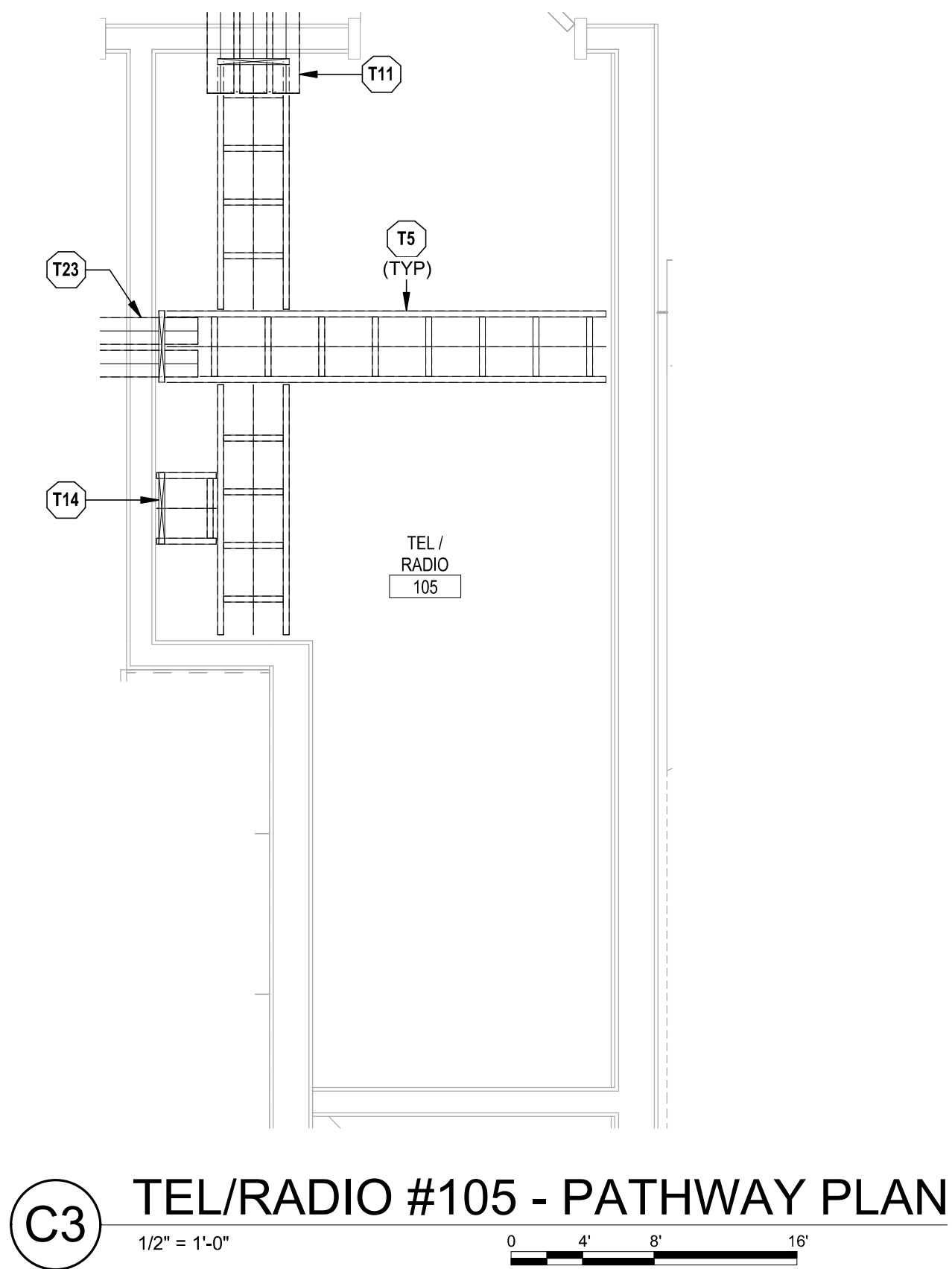
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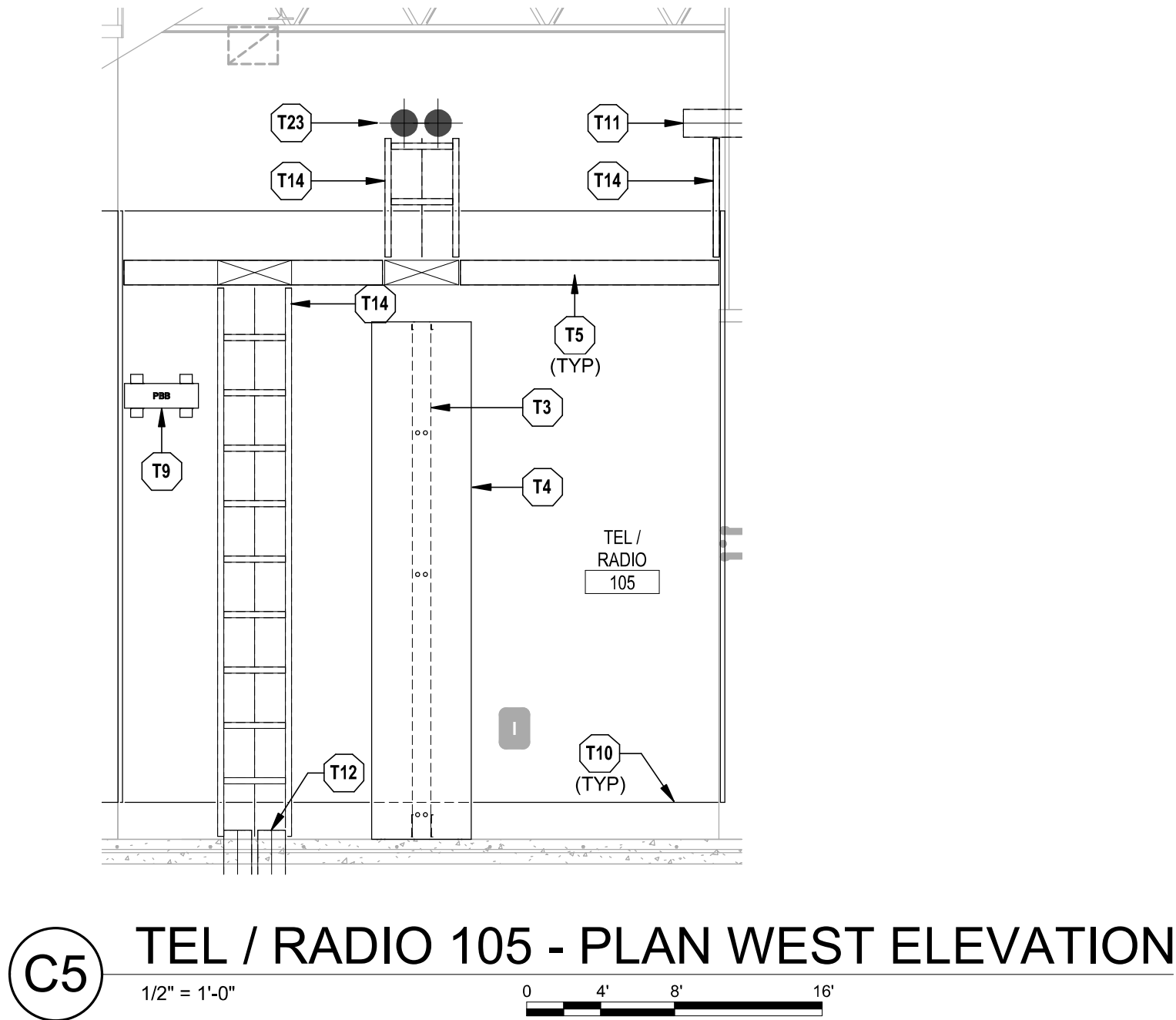
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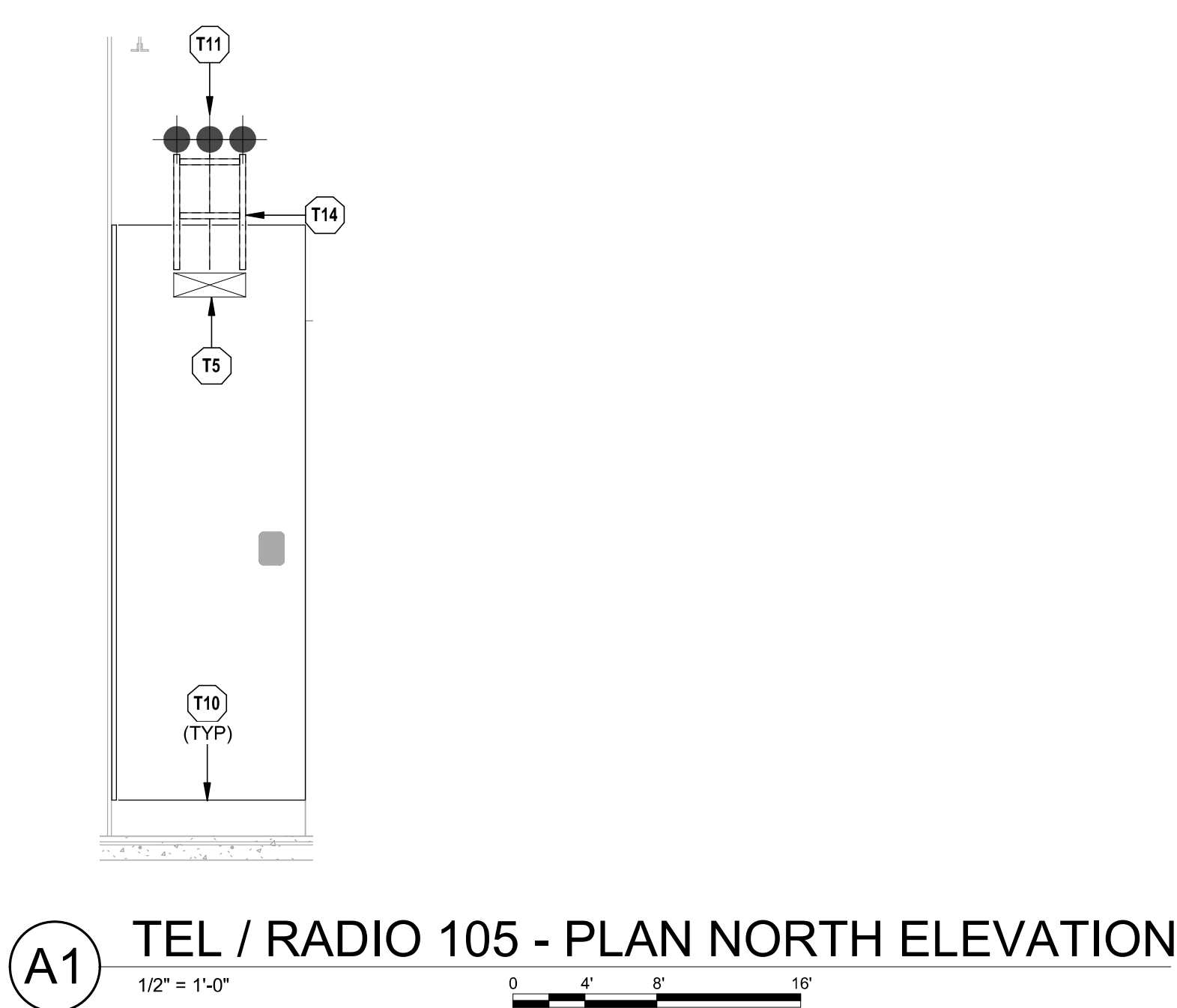
C1 TEL/RADIO #105 - ENLARGED PLAN



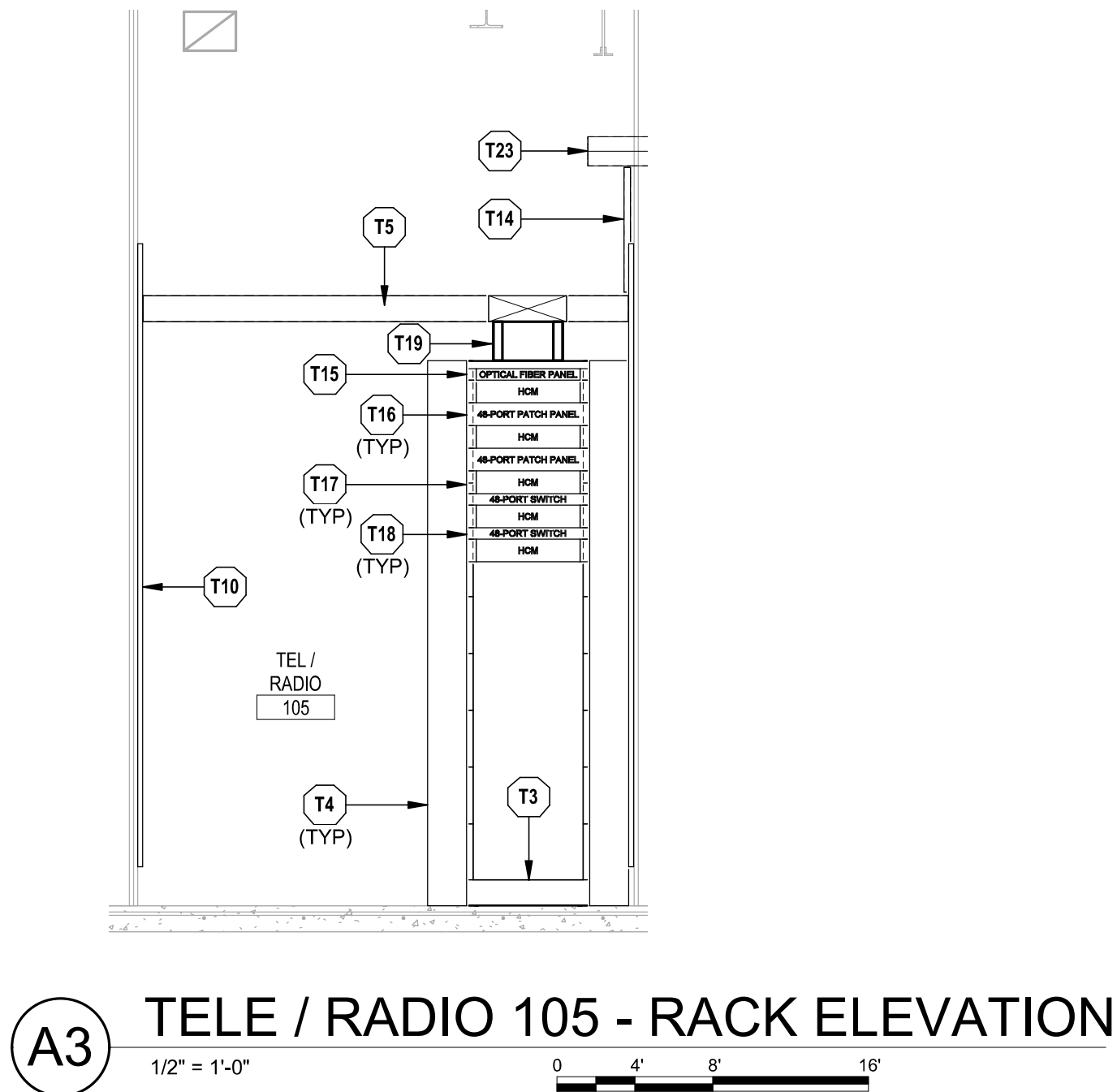
C3 TEL/RADIO #105 - PATHWAY PLAN



C5 TEL / RADIO 105 - PLAN WEST ELEVATION



A1 TEL / RADIO 105 - PLAN NORTH ELEVATION



A3 TELE / RADIO 105 - RACK ELEVATION

- **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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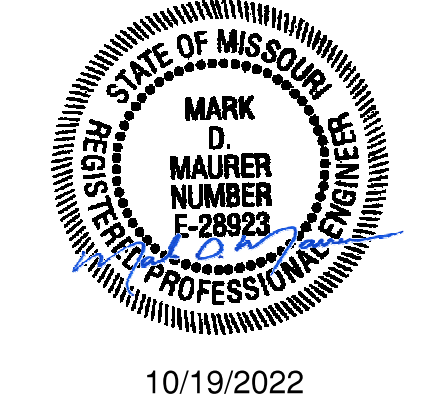
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5031 NORTHEAST LAKEWOOD WAY
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REVISIONS:

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

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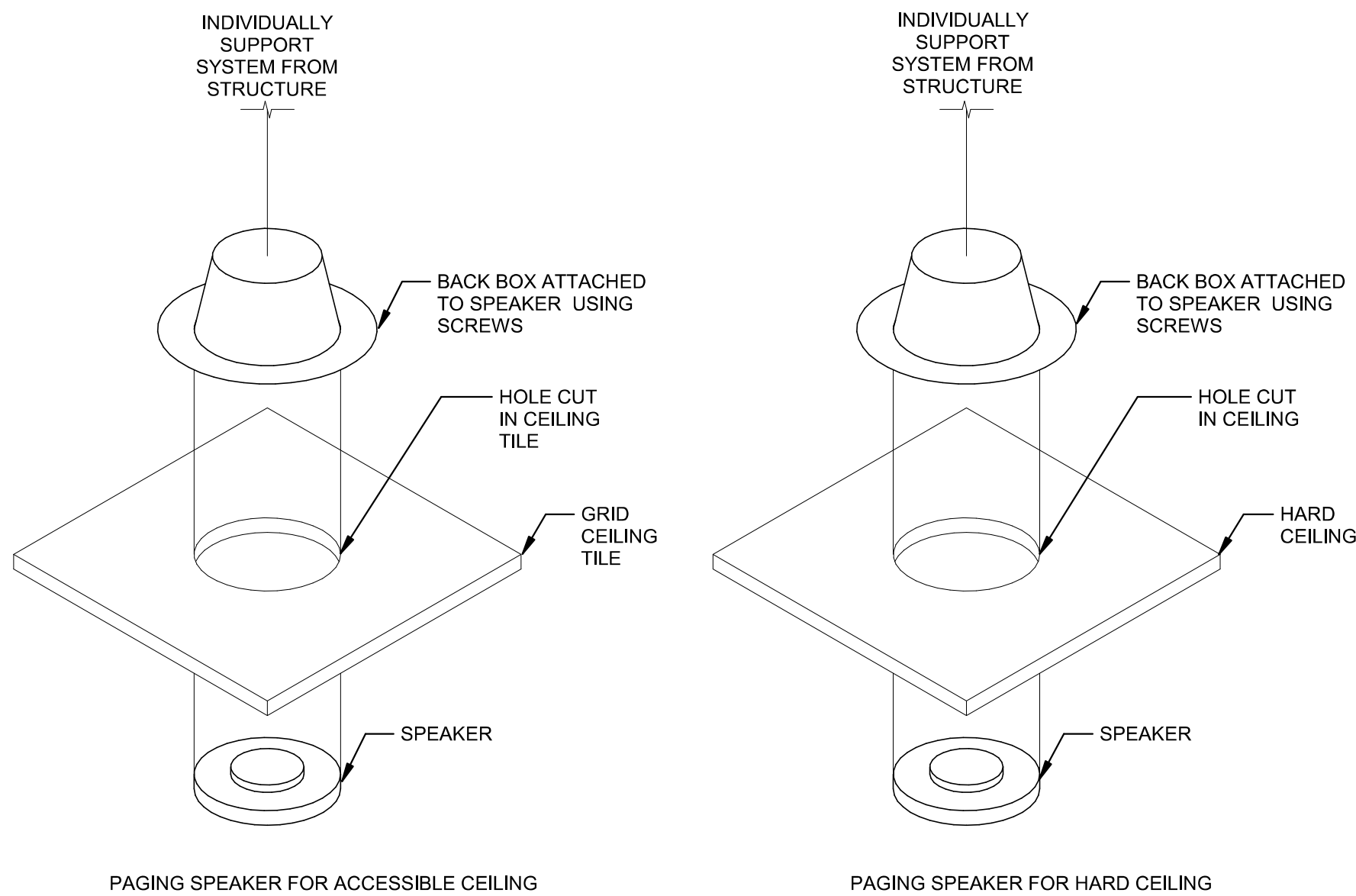
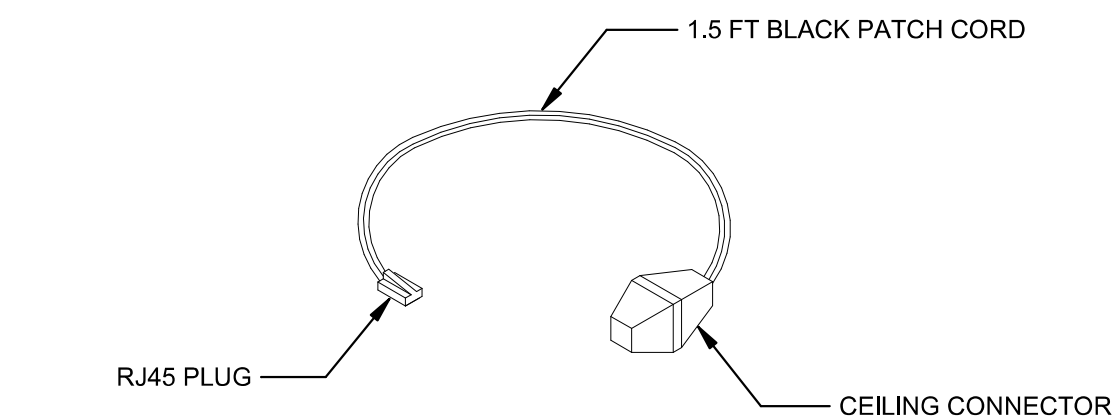
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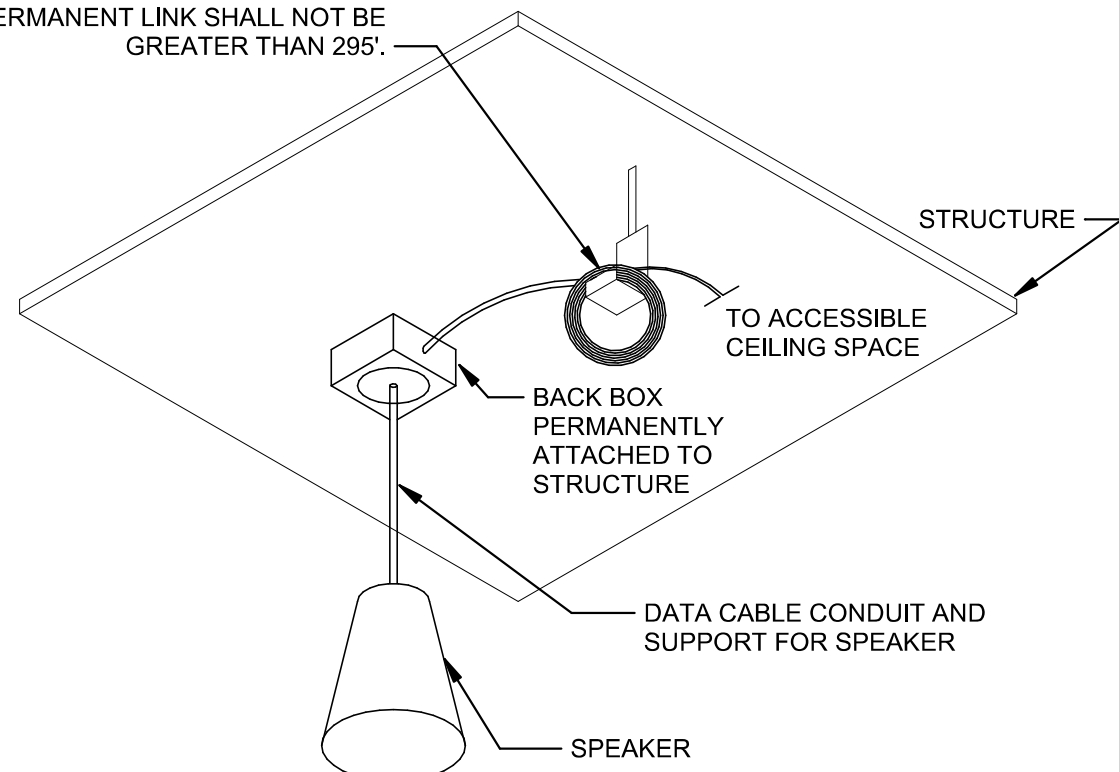
A

E1 ACCESS POINT CONNECTOR ASSEMBLY

NOT TO SCALE



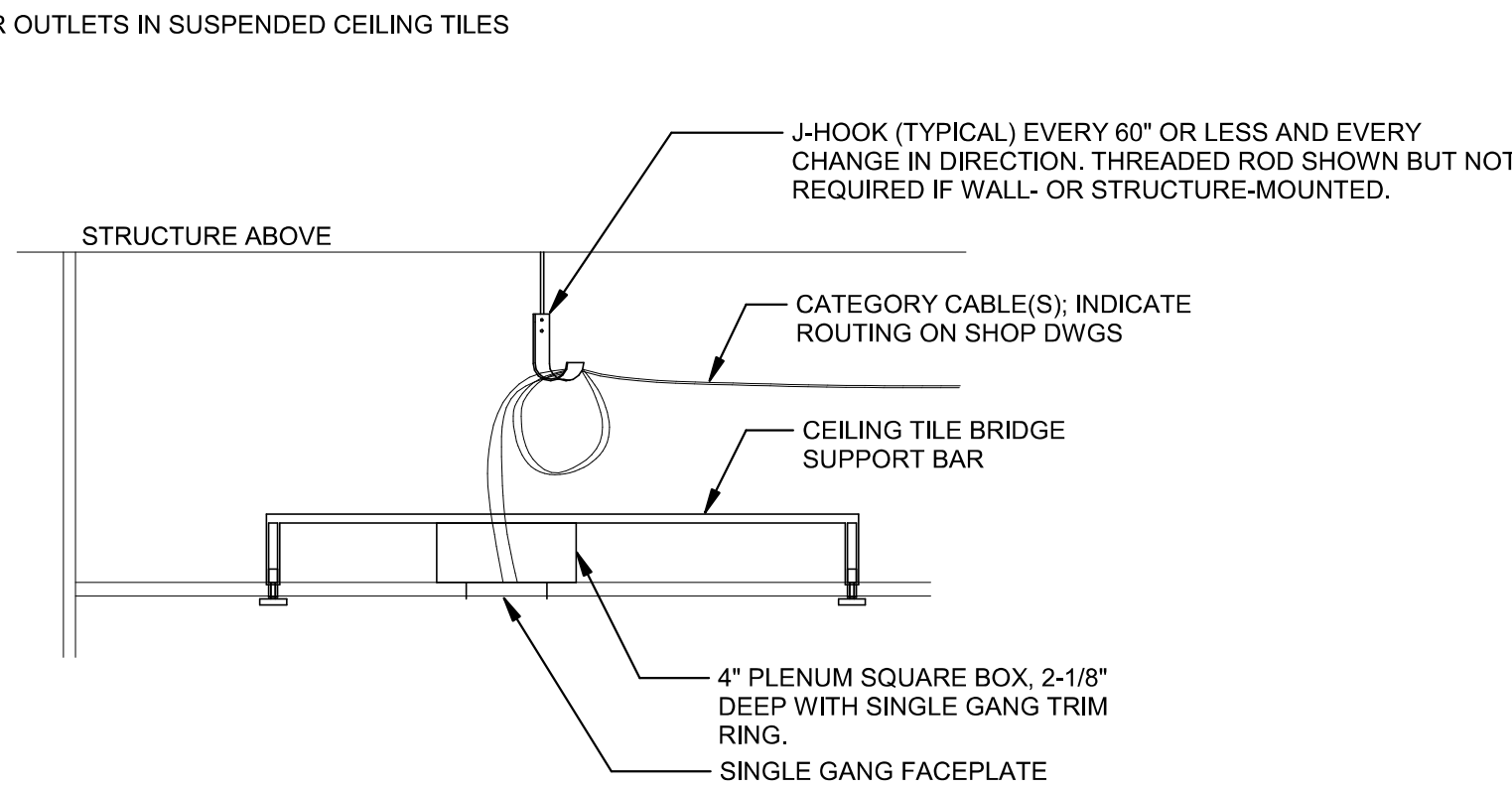
PROVIDE 5'-0" OF DATA CABLE SLACK. PERMANENT LINK SHALL NOT BE GREATER THAN 295'.



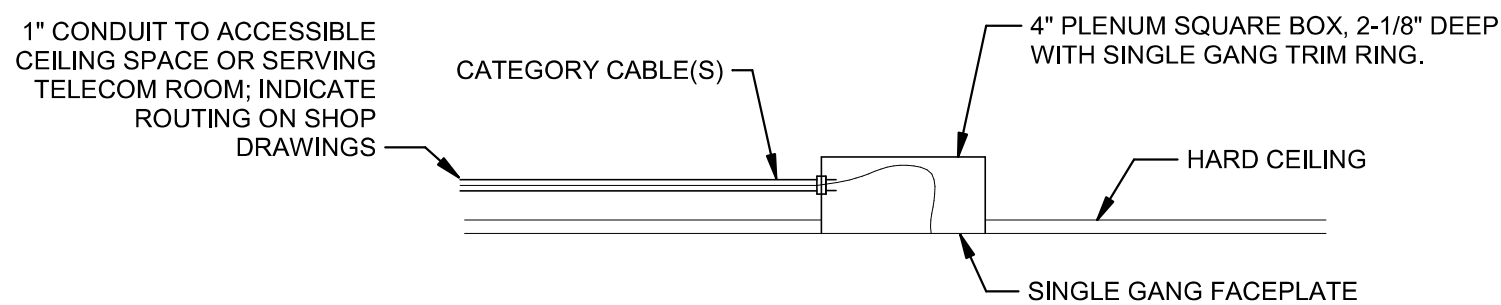
C1 SPEAKER INSTALLATION

NOT TO SCALE

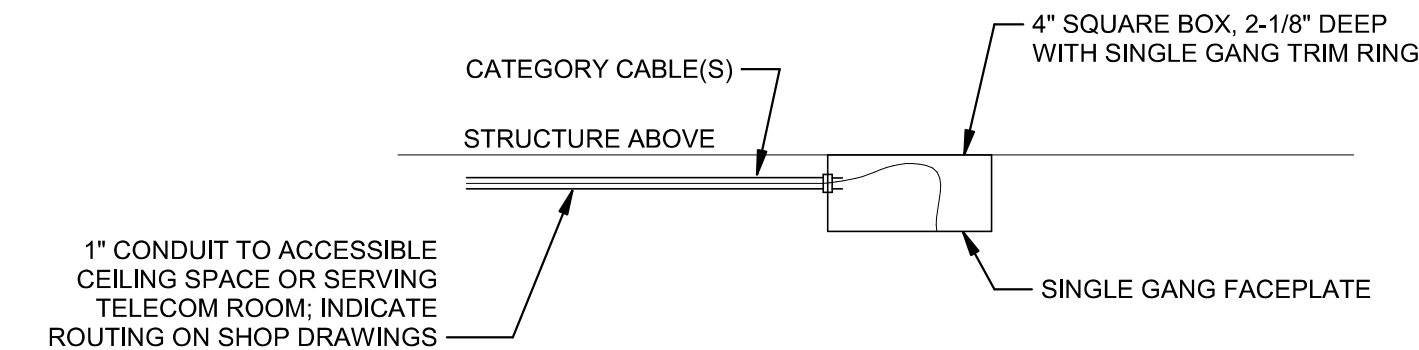
FOR OUTLETS IN SUSPENDED CEILING TILES



FOR OUTLETS IN GYPSUM BOARD CEILINGS



FOR OUTLETS IN EXPOSED TO STRUCTURE AREAS



A1 CEILING COMM OUTLET 2D

NOT TO SCALE

A3 COMMUNICATIONS OUTLET MOUNTING

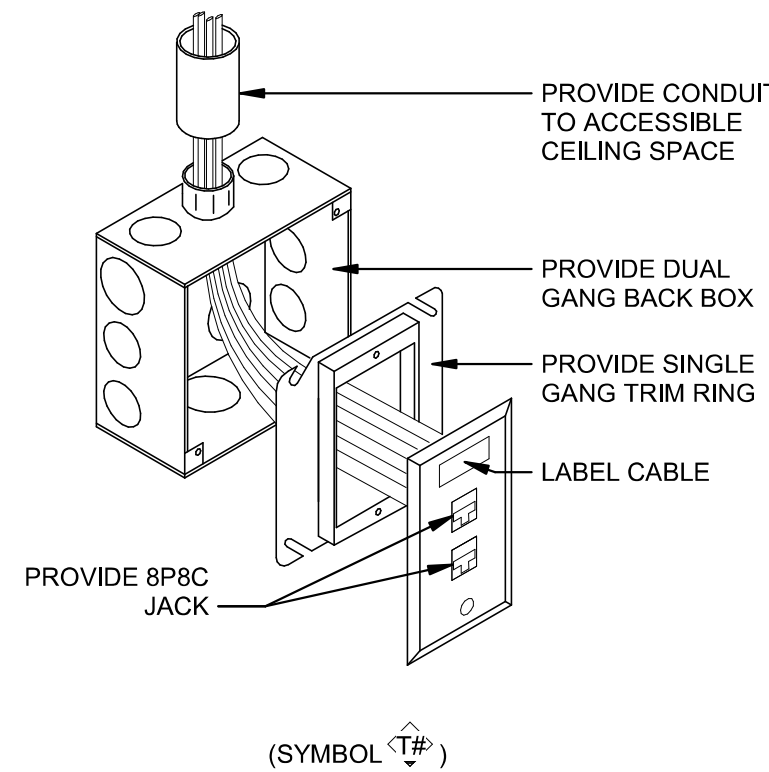
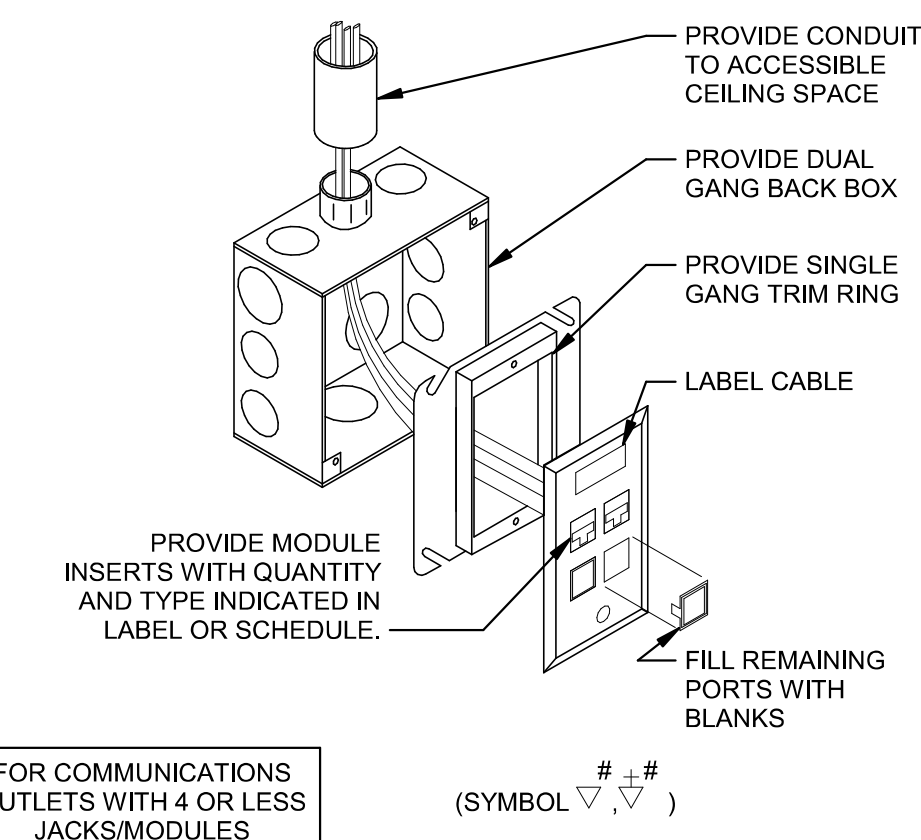
NOT TO SCALE

A6 LABELING OF HORIZONTAL CABLE

NOT TO SCALE

D5 SINGLE GANG COMM OUTLET (3D)

NOT TO SCALE

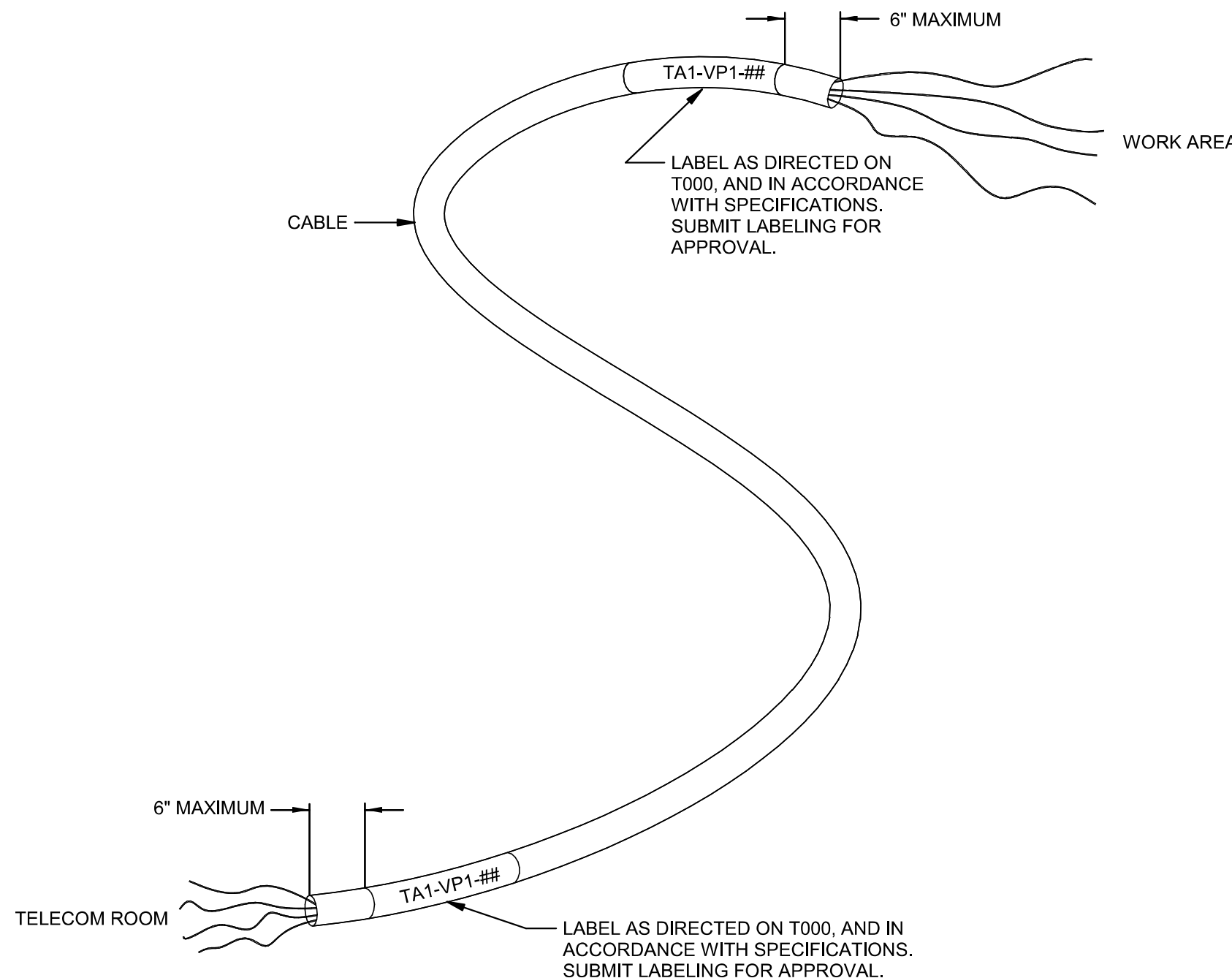
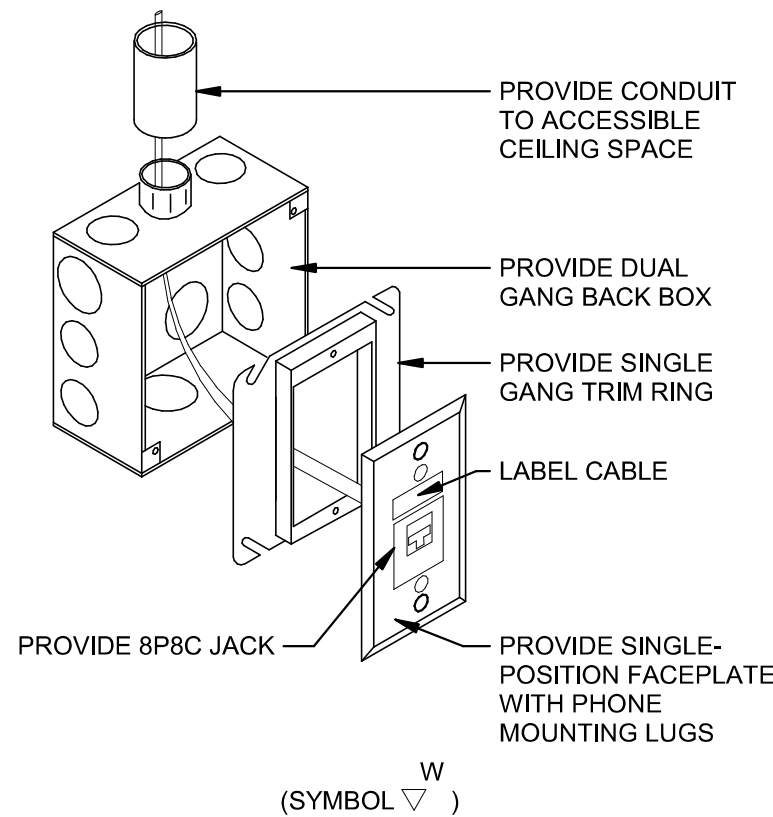


C5 SINGLE GANG COMM OUTLET FOR DISPLAY (3D)

NOT TO SCALE

D7 WALL PHONE OUTLET (3D)

NOT TO SCALE



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STATE OF MISSOURI
MARK D. MAURER
REGISTERED PROFESSIONAL ENGINEER
E-28923
10/19/2022

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

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MARK D. MAURER












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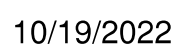
B

A

SECURITY SYMBOLS										V2.1																	
THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.																											
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		01				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		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.	
EMERGENCY PHONE (OPERABLE PARTS)			48"																								
DEFAULT MOUNTING HEIGHTS SHOWN ABOVE WHERE NO CALL-OUT IS PROVIDED. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG). ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.																											
ABBREVIATIONS																											
A AMPERS					KVM KEYBOARD VIDEO MOUSE																						
ACP ACCESS CONTROL PANEL					LAN LOCAL AREA NETWORK																						
ADA AMERICANS WITH DISABILITIES ACT					LED LIGHT-EMITTING DIODE																						
AFC ABOVE FINISHED CEILING					LF LINEAR FEET																						
AFF ABOVE FINISHED FLOOR					MBS MAINTENANCE BYPASS SWITCH																						
AFG ABOVE FINISHED GRADE					MDF MAIN DISTRIBUTION FRAME																						
AHJ AUTHORITY HAVING JURISDICTION					MFR MANUFACTURER																						
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE					MH MAINTENANCE HOLE																						
AV AUDIO-VIDEO					MM MULTIMODE																						
AWG AMERICAN WIRE GAUGE					MPOE MAIN POINT OF ENTRANCE																						
BAS BUILDING AUTOMATION SYSTEM					MPOP MAIN POINT OF PRESENCE																						
BD BUILDING DISTRIBUTOR					MTD MOUNTED																						
BDF BUILDING DISTRIBUTION FRAME					N/A NOT APPLICABLE																						
BFC BELOW FINISHED CEILING					NIC NOT IN CONTRACT																						
BR BIOMETRIC READER					nm NANOMETER																						
C CONDUIT					NRTL NATIONALLY RECOGNIZED TESTING LAB																						
CAT CATEGORY					NVR NETWORK VIDEO RECORDER																						
CC CENTRAL CONTROL					OC ON CENTER																						
CCTV CLOSED CIRCUIT TELEVISION					OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION																						
CD COMMUNICATIONS PLENUM					OSP OUTSIDE PLANT																						
CMP JACKET					POE POWER OVER ETHERNET																						
CMR COMMUNICATIONS RISER JACKET					PON PASSIVE OPTICAL NETWORK																						
(D) REMOTE DEVICE					QTY QUANTITY																						
DAS DISTRIBUTED ANTENNA SYSTEM					(R) RELOCATED EXISTING DEVICE																						
dB DECIBELS					(RE) REMOVE EXISTING DEVICE AND INSTALL AT ANOTHER LOCATION, SEE (R)																						
DCS DOOR CONTROL SYSTEM					RMC RIGID METAL CONDUIT																						
DEMO DEMOLITION					RMS REMOTE MONITORING STATION																						
DSP DIGITAL SIGNAL PROCESSOR					RU RACK UNIT																						
DVR DIGITAL VIDEO RECORDER					SCS STRUCTURED CABLING SYSTEM																						
(E) EXISTING DEVICE					SF SQUARE FEET																						
EC ELECTRICAL CONTRACTOR					SM SINGLEMODE																						
ECIA ELECTRONIC COMPONENTS INDUSTRY ASSOCIATION					SP SCRAMBLE PAD																						
EMI ELECTROMAGNETIC INTERFERENCE					TBD TO BE DETERMINED																						
EMS ENERGY MANAGEMENT SYSTEM					TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION																						
EMT ELECTRICAL METALLIC TUBING					TGB TELECOMMUNICATIONS GROUND BUS BAR																						
ER EQUIPMENT ROOM					TMGB TELECOMMUNICATIONS MAIN GROUND BUS BAR																						
(ETR) EXISTING TO REMAIN					TR TELECOMMUNICATIONS ROOM																						
(F) DOOR FRAME MOUNTED DEVICE					TYP TYPICAL																						
FAAP FIRE ALARM ANNUNCIATOR PANEL					UNO UNLESS NOTED OTHERWISE																						
FACP FIRE ALARM CONTROL PANEL					UL UNDERWRITER LABORATORIES, INC.																						
FD FLOOR DISTRIBUTOR					UPS UNINTERRUPTIBLE POWER SUPPLY																						
FMC FLEXIBLE METAL CONDUIT					UPSDP UNINTERRUPTIBLE POWER SUPPLY DISTRIBUTION PANEL																						
FOR FIBER OPTIC RACK					V VOLT(S)																						
FS FIRE STOP SYSTEM					VCM VERTICAL CABLE MANAGER																						
FLR FLOOR					VMS VIDEO MANAGEMENT SYSTEM																						
GC GENERAL CONTRACTOR					WAO WORK AREA OUTLET																						
(GT) GUARD TOUR					WP WEATHER PROOF																						
GYP GYPSUM BOARD					WR WEATHER RESISTANT																						
HH HAND HOLE					WT WATERTIGHT																						
Hz HERTZ					XP EXPLOSION-PROOF																						
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																											
ANNOTATION																											
 SECURITY PLAN CALLOUT																											
 CONNECTION POINT OF NEW WORK TO EXISTING																											
 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER																											
 SECTION CUT DESIGNATION																											
 DEDICATED EQUIPMENT ACCESS TILE																											
 ACCESS PANEL																											
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 - - - - -																											

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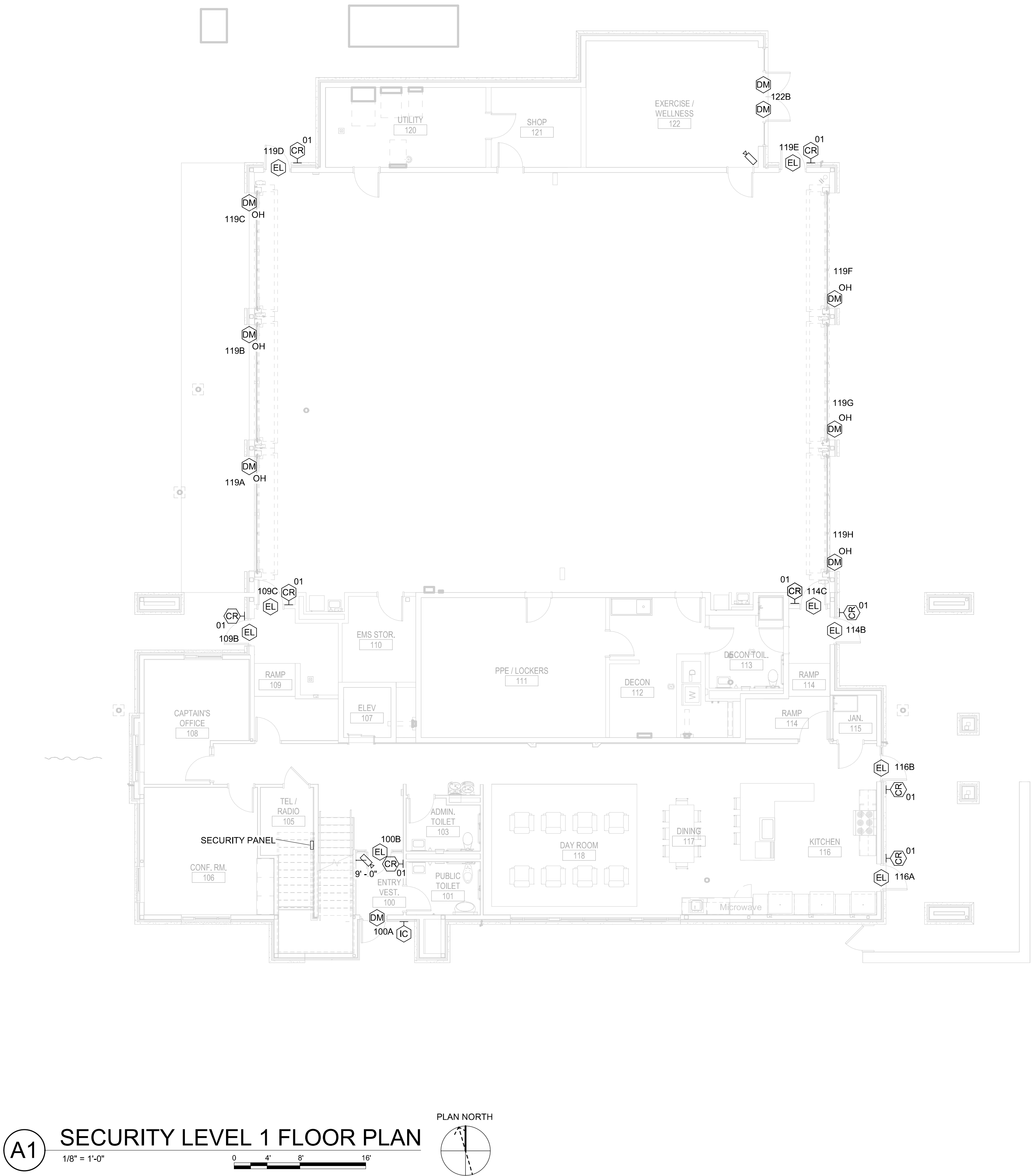
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NUMBER F-28923
PROFESSIONAL ENGINEER
10/19/2022

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CHK'D BY: M.MAURER

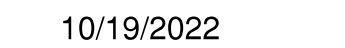
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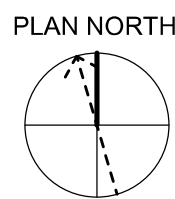
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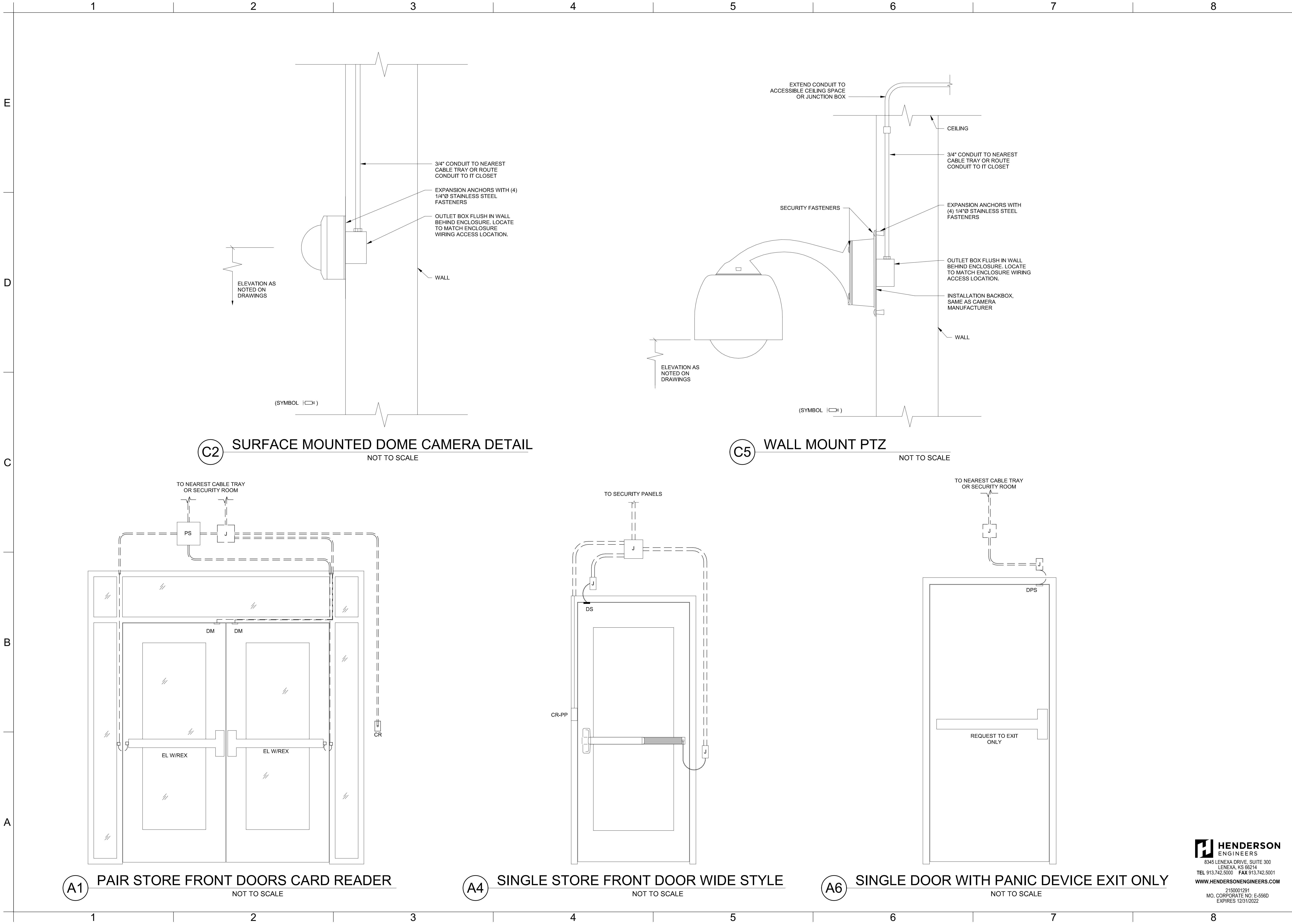
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