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

#	Description	Date

REVISIONS:



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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COVER SHEET

G-001

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS

CITY OF LEE'S SUMMIT FIRE STATION #5

801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

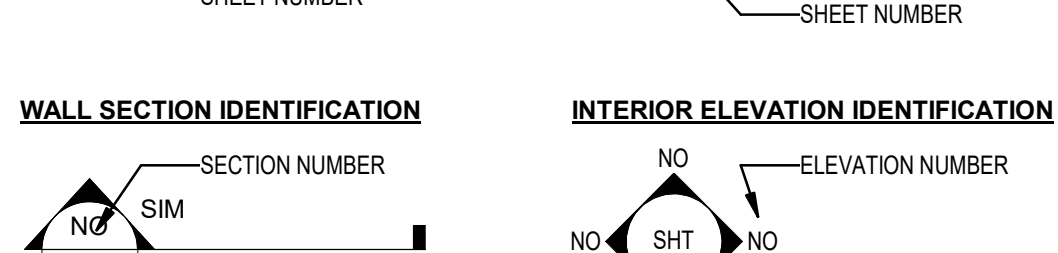
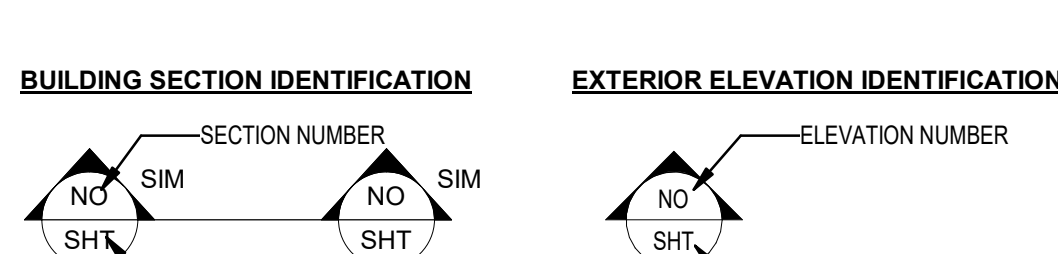
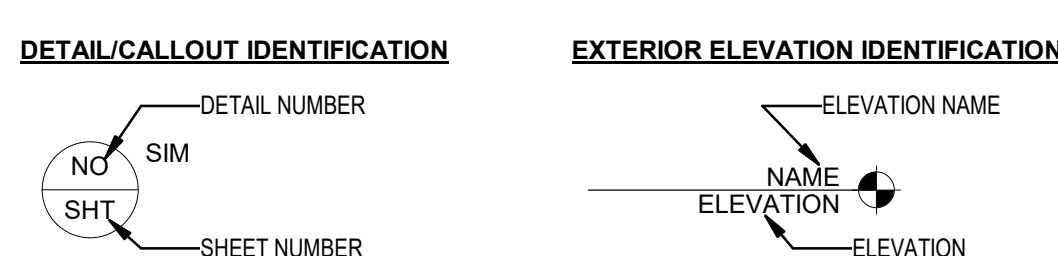
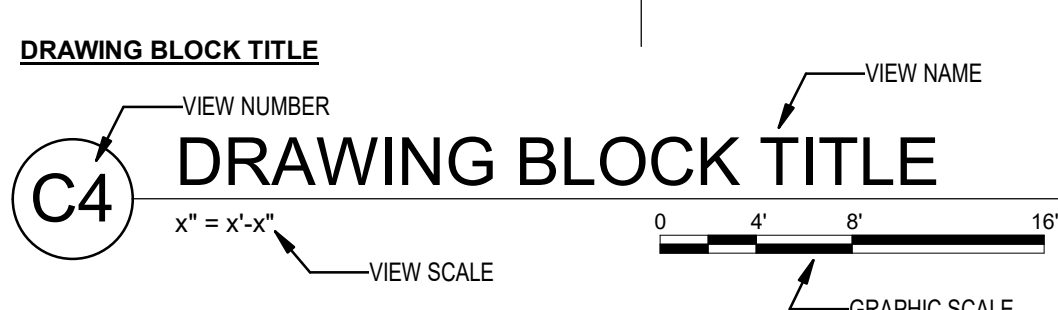
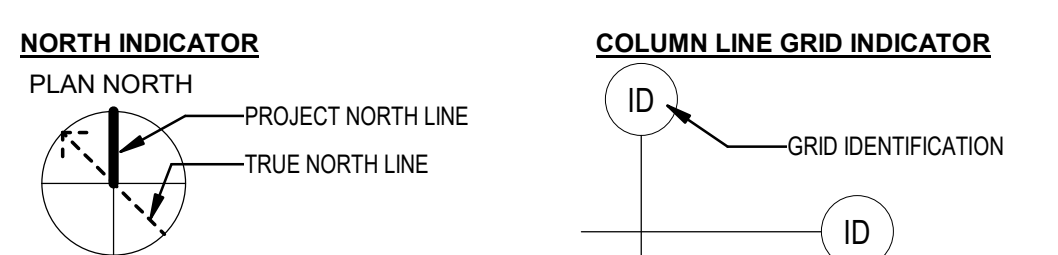
ISSUED FOR CONSTRUCTION

TERMS AND ABBREVIATIONS

ABBREVIATION	TERM	CONST	CONSULT	CONSTRUCTION	CONSULTANT	FHC	FIRE HOSE CABINET	FLUOR LT	FLUORESCENT LIGHT(ING)	RD	ROOF DRAIN
A	LABEL	CLASS A DOOR	CONT	CONTINUE	FHP	FIN	FULL HEIGHT PARTITION	LT GA	LIGHT GAGE	RDG INS	RIGID INSULATION, SOLID
A/C	AIR CONDITION(ER)	COORD	COORDINATE	FIN BS	FIN BS	FIN GR	FINISH BOTH SIDES	LTV	LTG	REBAR	REINFORCING STEEL BARS
A/C UNIT	AIR CONDITIONING UNIT	COV PL	CORRIDOR	FIN FLR	FINISH FLOOR	FIN GR	FINISH FLOOR	LW PLAS	LWR	REINFOR	REINFORCE(D)
A/E	ARCHITECT/ENGINEER	CP	COVER PLATE	FIN WD	FINISH WOOD	FIN WD	FINISH WOOD	LWC	REQ	REQUIRE	REQUIRED
AAP	ALARM ANNUNCIATOR PANEL	CPT	CARPET	FIXT	FIXTURE	FLG	FLOOR FINISH	FLR FIN	REV	RESIL	RESILIENT
AB	ANCHOR BOLT	CR	CIRCUMFERENCE	FLR	FLOOR	FLR FIN	FLOOR FINISH	FLR PL	RHR	RIGHT HAND REVERSE	ROUGH OPENING
ABBRV	ABBREVIATION	CRT YD	COURTYARD	FR	FIRE RATING	FR	FRAMING	FRM	FRM	FRAMING	FRAMING
ACC	ACCESSIBLE	CS	CAST STONE	CSG	CASING	CS	CASING	CS	CS	CASING	CASING
ACoust INSUL	ACOUSTICAL INSULATION	CSG	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ACoust PNL	ACOUSTICAL PANEL	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ACS DR	ACCESS DOOR	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ACS FLR	ACCESS FLOOR	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ACS PNL	ACCESS PANEL	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ACT	ACOUSTICAL CEILING TILE	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ADA	AMERICANS WITH DISABILITIES ACT	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
AFF	ABOVE FINISHED FLOOR	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
AGGR	AGGREGATE	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
AHU	AUTHORITY HAVING JURISDICTION	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
AHU	AIR HANDLING UNIT	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
AIA	AMERICAN INSTITUTE OF ARCHITECTS	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ALM	ALARM	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ALT	ALTERNATE	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ALT NO	ALTERNATE NUMBER	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ALUM	ALUMINUM	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ANN	ANNUNCIATOR	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ANOD	ANODIZE	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
APC	ACOUSTICAL PANEL CEILING	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
APPD	APPROVED	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
APPROX	APPROXIMATE	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ARCH	ARCHITECT	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ASKLR	AUTOMATIC SPRINKLER	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
ASPH	ASPHALT	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
AV	AUDIO VISUAL	CS	CASING	CS	CASING	CS	CASING	CS	CS	CASING	CASING
B	LABEL	CLASS B DOOR	DIA	DIAMETER	GL	GLASS	GLASS BLOCK	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT
B PL	BASE PLATE	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BAS	BUILDING AUTOMATION SYSTEM	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BB	BASEBOARD	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BC	BOOKCASE	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BD	BOARD	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BDRY	BOUNDARY	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BFF	BUILDING FINISHED FLOOR	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BHMA	BUILDING'S HARDWARE	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BITUM	BITUMINOUS	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BLKHD	BULKHEAD	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BLT IN	BUILT-IN	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BLW CLG	BELOW CEILING	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BN	BULLNOSE	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BRCG	BRACING	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BRDG	BRIDGING	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BRDG JST	BRIDGING JOIST	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BRG	BEARING	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BRG PL	BEARING PLATE	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BRZ	BRONZE	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BTWN	BETWEEN	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
BUR	BUILT-UP ROOFING	DIA	DIAMETER	GL	GLASS	GLV LAM	GLAZING	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	GL	GLASS
C	LABEL	CLASS C DOOR	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL
CAB	CABINET	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CAC	CEILING ATTENUATION	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CLASS	CLASS	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CATW	CATWALK	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CBB	CEMENTITIOUS BACKER BOARD	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CEM	CEMENT	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CEM FIN	CEMENT FINISH	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CEM PLAS	CEMENT PLASTER	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CEM PLAS CLG	CEMENT PLASTER CEILING	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CER	CERAMIC	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CF	CONTRACTOR FURNISHED/	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CF/CI	CONTRACTOR FURNISHED/	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CF/OI	CONTRACTOR FURNISHED/	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CFLG	COUNTERFLASHING	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CFMF	COLD-FORMED METAL FRAMING	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CG	CORNER GUARD	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CHFR	CHAMFER	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CIP	CAST-IN-PLACE	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CIR	CIRCLE	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CJ	CONTROL JOINT	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CL	CLADDING	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CLDG	CEILING	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CLG DIFF	CEILING DIFFUSER	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CLG GR	CEILING GRILLE	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CLG HT	CEILING HEIGHT	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CLG REG	CEILING REGISTER	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CLK JT	CAULKED JOINT	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CLR	COLOR	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CMFST	COMPOSITE	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CMFTR	COMPUTER	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CMU	CONCRETE MASONRY UNIT	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CNR	CORNER	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CNTOR	CONTRACTOR	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CNTR	COUNTER	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CO	CLEANOUT	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
COL	COLUMN	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
COMM	COMMUNICATION	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CONC	CONCRETE	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CONC FLR	CONCRETE FLOOR	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL
CONC OPNG	CONCRETE OPENING	EL	ELEVATION	EL	ELEVATION	EL	ELEVATION	EL	EL	ELEVATION	EL

GRAPHIC SYMBOLS LEGEND

FLOOR PLAN REFERENCE INDICATORS	NAME	ROOM TAG	DOOR TAG	REVISION TAG
NO	NO	NO	NO	NO
ID	WINDOW TAG	ID	PARTITION TAG	KEYNOTE TAG
100'-0"	SPOT ELEVATION TAG	100'-0"	CENTER LINE	EQUIPMENT TAG



MATERIAL SYMBOLS LEGEND

CONCRETE (CAST-IN-PLACE)	PLASTER (GYPSUM OR PORTLAND CEMENT)	GLASS (ELEVATION)	EARTHWORK (CRUSHED ROCK GRAVEL)	EARTHWORK (COMPACTED FILL)	SAND	CMU LINTEL	CMU BOND BEAM	CMU (SECTION)	PLYWOOD	WOOD BLOCKING OR SHIM	WOOD FRAMING (CONTINUOUS)
GROUT	BRICK (COMMON/FACE)	CONCRETE MASONRY UNIT	STONE (CAST)	ALUMINUM	ORNAMENTAL METAL	STEEL AND OTHER METALS	INSULATION (BLANKET)	INSULATION, RIGID BOARD	SHEET METAL	WALL CABINETS WITHOUT WOOD BASE	WOOD BLOCKING
TOWEL BAR	TOILET PAPER DISPENSER	TEMPERED GLASS	TOILET PAPER DISPENSER	TEMPERED GLASS	TOILET PAPER DISPENSER	TEMPERED GLASS	TOILET PAPER DISPENSER	TEMPERED GLASS	TOILET PAPER DISPENSER	TEMPERED GLASS	TEMPERED GLASS
UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE	UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE	UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE	UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE	UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE	UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE	UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE	UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE	UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE	UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE	UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE	UNDERGROUND UNDERWRITERS LABORATORIES UNFINISHED(ED) UNLESS NOTED OTHERWISE

FILE PATH: BIM 360://18225R21001_Lee'sSummitFireStation_#4 and #5/LSMO FIRE STATION 5.rvt



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

REVISIONS:

#	Description	Date
1	Issue for Construction	11/21/2022



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

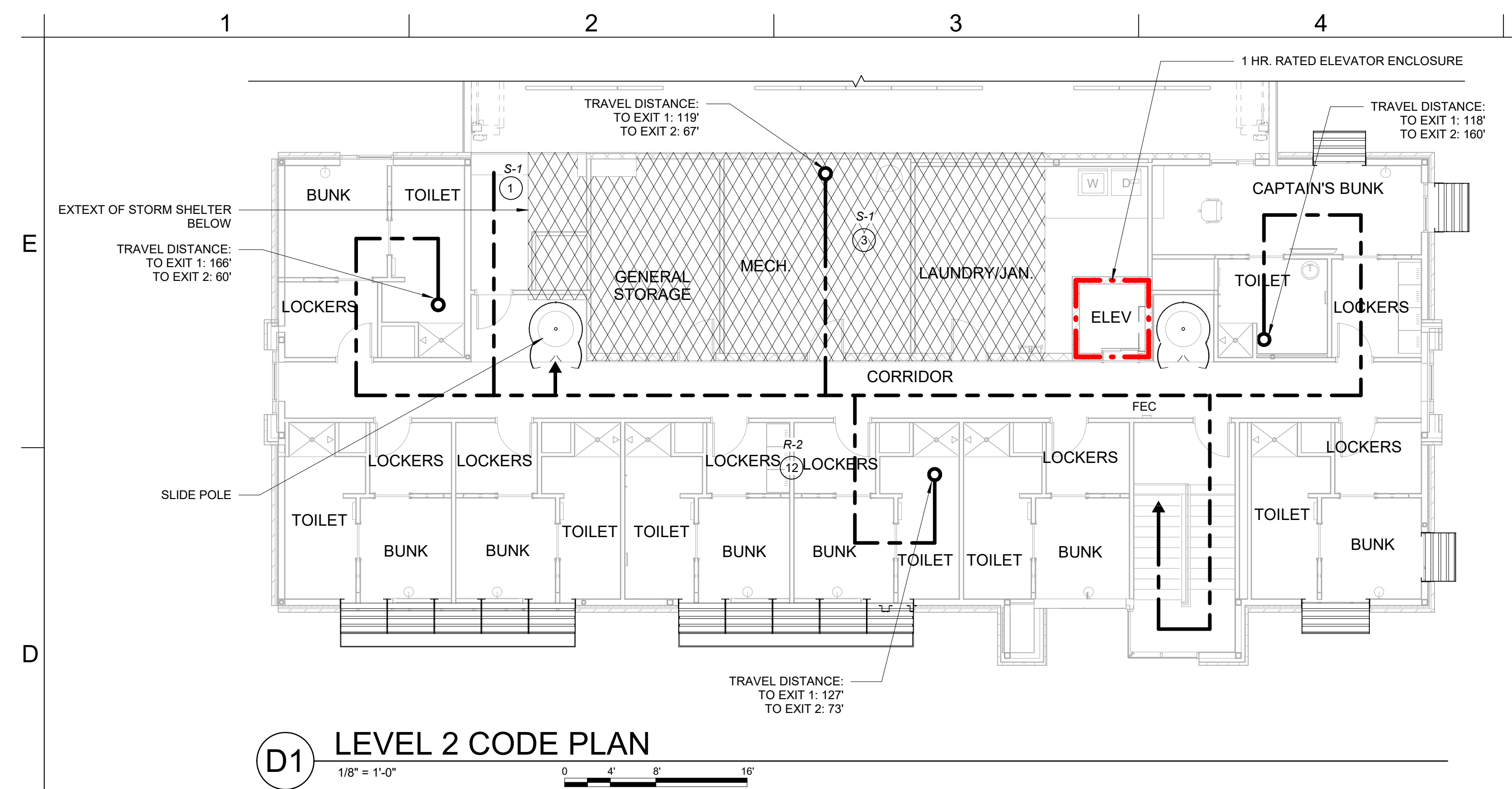
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PROJECT NO: 18225R21001
DATE: 11.21.2022
DRAWN BY: JSP
CHK'D BY: PJM

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CODE SUMMARY

G-002



LEVEL 2 CODE PLAN

1/8" = 1'-0"
0 4' 8' 16'

CODE INFORMATION

I. Applicable Codes

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

II. Building Information:

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

III. Code Compliance Summary:

A. Building Height & Area:

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

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

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

98 sf - Mezzanine above Apparatus Bays
3,606 sf - Apparatus Bay
per IBC 505.2.1: "The aggregate area of a mezzanine or mezzanines within a room shall not exceed one-third of the floor area of that room or space in which they are located."

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

B. Fire Resistance Ratings

1. Building Elements per IBC Table 601

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

2. Corridors with Sprinkler System per IBC-T 1020.1

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

0 hr.	0 hr.
0 hr.	0 hr.
1 hr.	1 hr.

Notes:

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

- 3. Exterior Walls per Separation Distance IBC Table 602:
 - Greater than 30 feet: 0 hr., 0 hr.
 - Less than 5 feet: 1 hr., 1 hr.
- 4. Maximum Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening Protection per IBC Table 705.8:
 - 5 to less than 10 feet, Unprotected, Sprinklered (UP,S): 25%
- 5. Accessory Storage room separation (>100sf): 0 hr.

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	18.90cc
- Toilets (M):	190cc / 25	0.76
- Toilets (F):	190cc / 25	0.76
- Lavatories (M):	190cc / 25	0.76
- Lavatories (F):	190cc / 25	0.76
- Drinking Fountain:	190cc / 100	0.19
Residential	2538gsf / 200	12.00cc
- Toilets (M):	120cc / 10	1.20
- Toilets (F):	120cc / 10	1.20
- Lavatories (M):	120cc / 10	1.20
- Lavatories (F):	120cc / 10	1.20
- Showers:	120cc / 8	1.50
- Drinking Fountain:	120cc / 100	0.12
Storage	1969gsf / 300	6.60cc
3606gsf / 200	18.00cc	
322gsf / 50	6.40cc	
- Toilets (M):	310cc / 100	0.31
- Toilets (F):	310cc / 100	0.31
- Lavatories (M):	310cc / 100	0.31
- Lavatories (F):	310cc / 100	0.31
- Drinking Fountain:	310cc / 1000	0.03
Totals		
- Toilets (Unisex):	4.54 Required /	11 Provided
- Lavatories (Unisex):	4.54 Required /	11 Provided
- Showers:	1.50 Required /	9 Provided
- Drinking Fountain:	0.34 Required /	1 Provided
- Service Sink:	2 Required /	2 Provided

E. Means of Egress Notes:

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

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

G. Sprinkler System

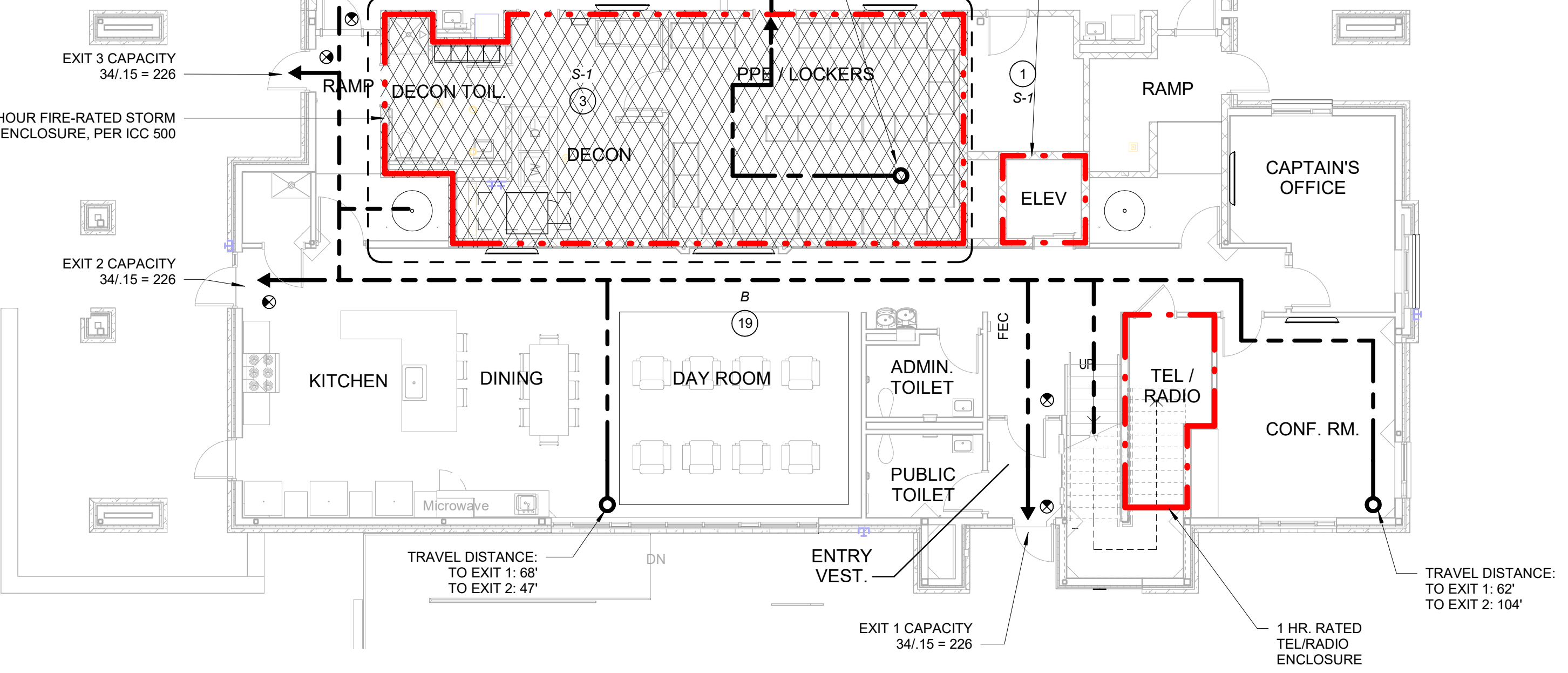
- 1. NFPA 13
- 2. IBC 903
- 3. Centrally Monitored

H. Fire Alarm System

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

LEVEL 1 CODE PLAN

1/8" = 1'-0"
0 4' 8' 16'



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

INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANCY

PER IBC TABLE 803.13

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

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

FILE PATH: BM 360-118225R21001_Lee'sSummitFireStation_#4 and #5LSMO_FIRE STATION 5.rvt

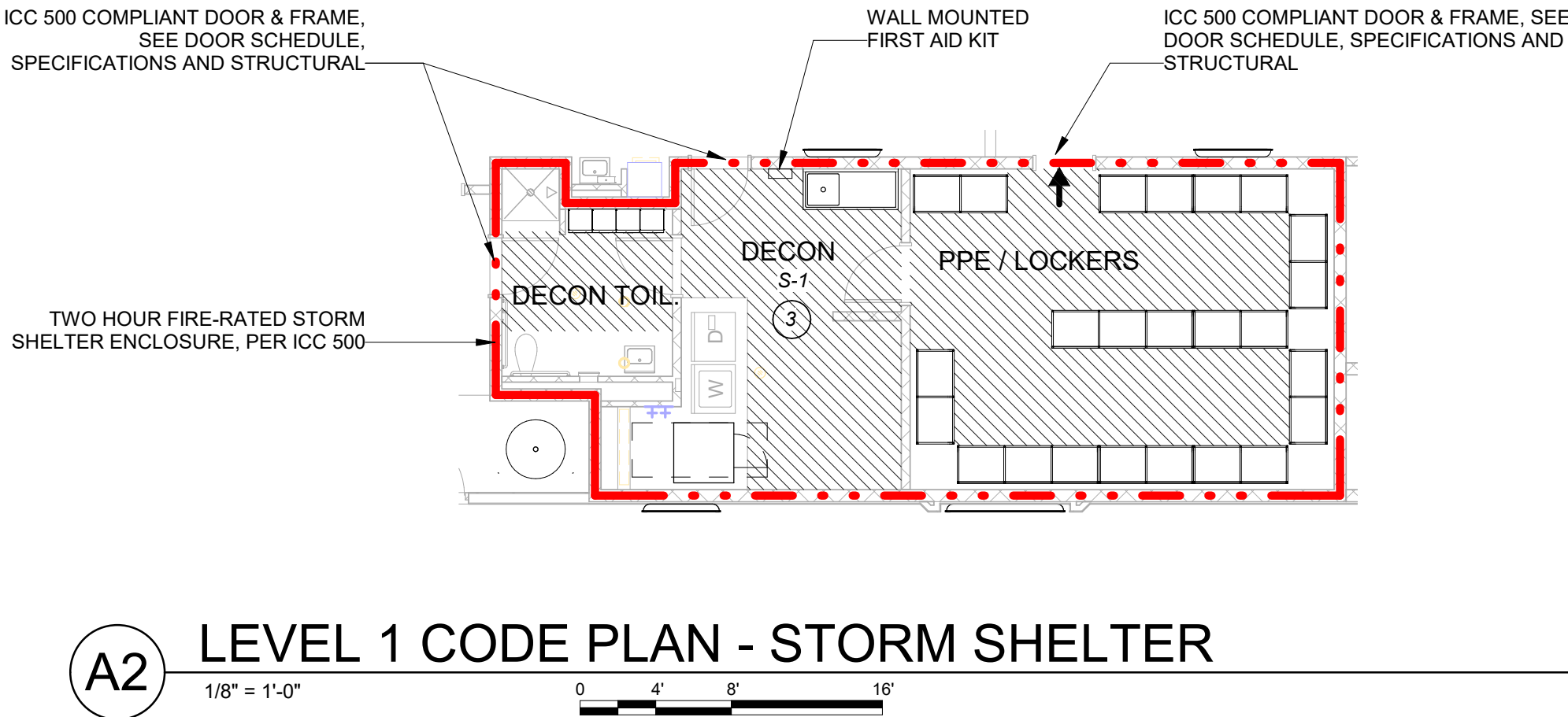
E

D

C

B

A



STORM SHELTER INFORMATION:

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

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

REFER TO THIS SHEET FOR EXTENTS OF THE STORM SHELTER.

[S106.2.1] DESIGN INFORMATION		
• TYPE:		COMMUNITY SHELTER FOR TORNADO PROTECTION
• RISK CATEGORY:		IV (FIRE, RESCUE, AMBULANCE AND POLICE STATIONS)
• DESIGN WIND SPEED (V _i):		250 MPH
• WIND EXPOSURE CATEGORY:		C
• INTERNAL PRESSURE COEFFICIENT (GC _{pi}):		+/- 0.55
• TOPOGRAPHIC FACTOR (K _{zt}):		1.0
• DIRECTIONALITY FACTOR (K _d):		1.0
• DESIGN WIND PRESSURE FOR THE SPECIFICATION OF COMPONENTS AND CLADDING OF THE STORM SHELTER ENVELOPE		SEE STRUCTURAL SHEET S-001
• SITING:		
• MINIMUM FLOOR ELEVATION PER AUTHORITY HAVING JURISDICTION		N/A
• 500-YEAR FLOOD ELEVATION		N/A - STRUCTURE NOT LOCATED IN A FLOOD ZONE
• STORM SURGE FLOOD ELEVATION		N/A - STRUCTURE NOT LOCATED IN A FLOOD ZONE
• STORM SHELTER FLOOR ELEVATION		100' - 0" (909.24' CIVIL)
• OCCUPANT LOAD (AS A STORM SHELTER)		
• DESIGN OCCUPANCY LOAD		80
• USABLE FLOOR AREA		407 S.F. (AS INDICATED WITH HATCHED AREA PER §502.4.2)
• VENTING AREA:		REFERENCE MPE SHEET
• SANITATION FIXTURE CALCULATION (TABLE 702.3)		
• STORM SHELTER TYPE:		COMMUNITY, DESIGN OCCUPANCY LOAD >= 50
• WATER CLOSETS:		1 (1 PER 250 FOR THE FIRST 500 OCCUPANTS) REQ'D, 1 PROVIDED
• HAND WASHING FACILITIES:		1 (1 PER 1,000 OCCUPANTS) REQ'D, 1 PROVIDED
• MINIMUM FOUNDATION REQUIREMENTS		
• CAPACITY		REFERENCE STRUCTURAL SHEETS
• THICKNESS		REFERENCE STRUCTURAL SHEETS
• STEEL REINFORCEMENT/ CONCRETE COVER		SEE STRUCTURAL SHEETS
• INSTALLATION REQUIREMENTS		
• ANCHOR LOCATION, MINIMUM EDGE/ END DISTANCE		REFERENCE STRUCTURAL SHEETS
• MIN. REQUIRED CAPACITY POST-INSTALLED ANCHORS		

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

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

SECTION 504 SIGNAGE FOR COMMUNITY SHELTERS

508.1 SIGNAGE REQUIREMENTS.
All storm shelters shall be marked with design inforamtion in accordance with Section 508.2. Community storm shelter areas shall be marked by signage in acco4rdance with Sections 508.3 through 508.7, as applicable. All signs shall comply with the visual character requirements of ICC 117.1.

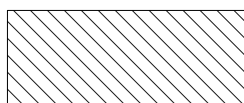
508.2 DESIGN INFORMATION SIGNAGE.
All storm shelters shall have a sign on or within the storm shelter with all of the following:
1. The design occupant capacity.
2. The storm type.
3. The design wind speed.
4. The edition of the ICC 500 used for the design.
5. The name of the manufacturer or builder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

508.5 DIRECTIONAL SIGNAGE WITHIN A HOST BUILDING
Where a storm shelter is within a host building, to direct untended occupants to the storm shelter. The path of travel to the storm shelter shall be clearly marked to indicate the direction of travel in cases where the path of travel is not immediately visible to the intended occupants.

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

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

STORM SHELTER LEGEND



USABLE FLOOR AREA



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



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

CIVIL ENGINEER & LANDSCAPE ARCH.
GLMV ARCHITECTURE, INC.
MISSOURI CIVIL COA #2018033898
MISSOURI LANDSCAPE COA #000008
9229 WARD PARKWAY, SUITE # 210
KANSAS CITY, MO 64114
TEL: (816) 444-4200

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

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

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

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

REVISIONS:

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



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

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

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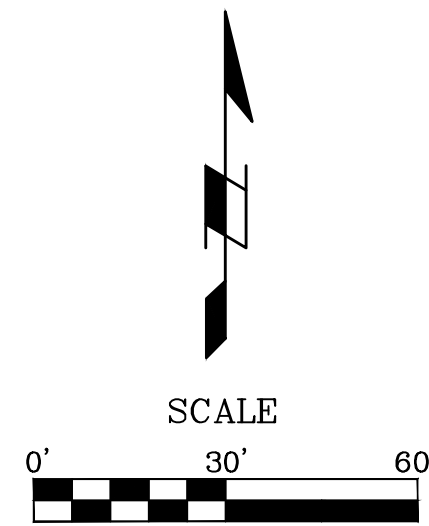
**STORM SHELTER
CODE SUMMARY**

G-004

ALTA/NSPS LAND TITLE SURVEY

NW 1/4, SECTION 31, TOWNSHIP 47 NORTH, RANGE 31 WEST

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

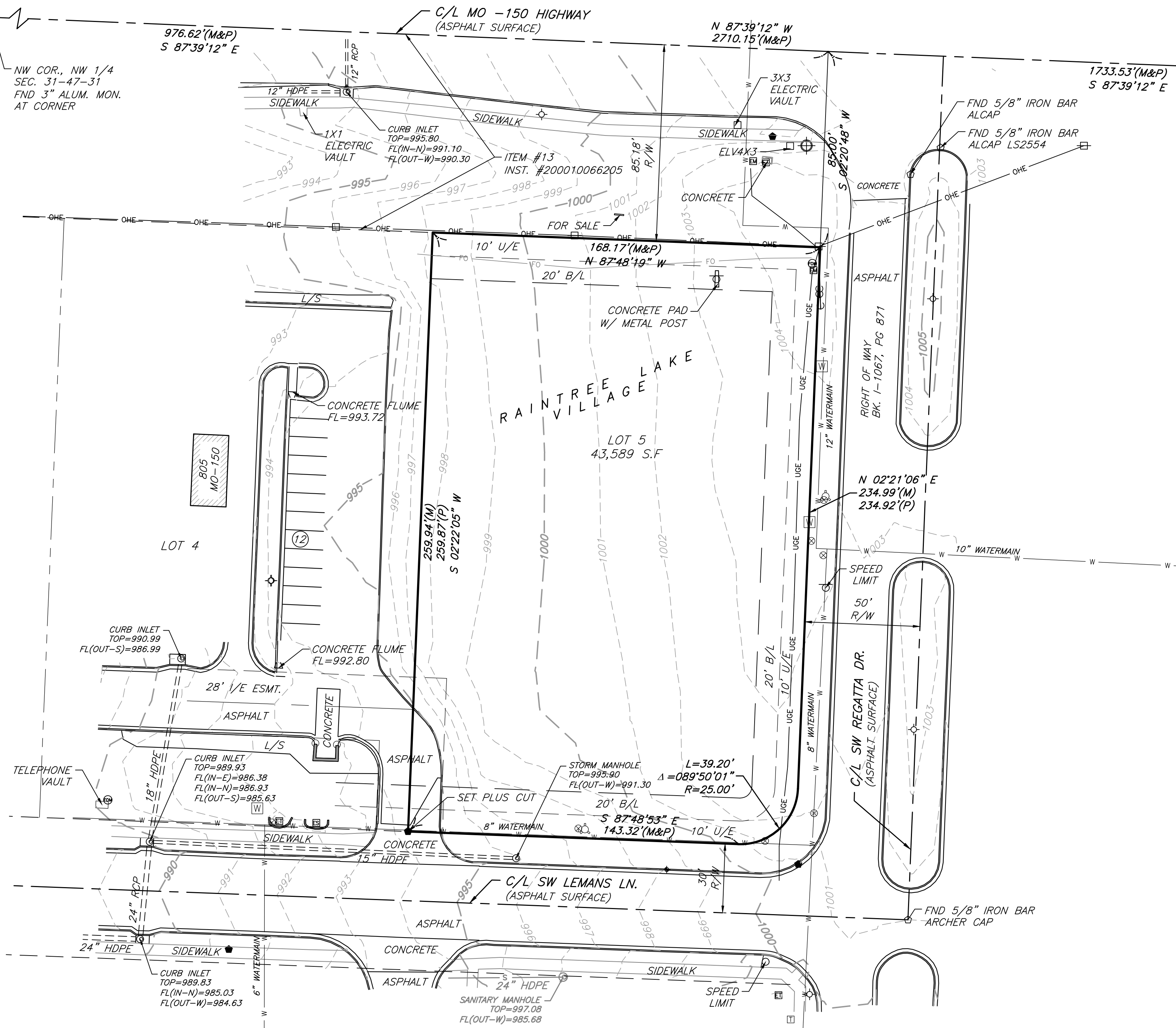


LEGEND

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

CLIENT:
GLM Architecture
Attn: Paul J. Michell
4229 Ward Parkway Ste. 210
Kansas City, Mo 64082

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

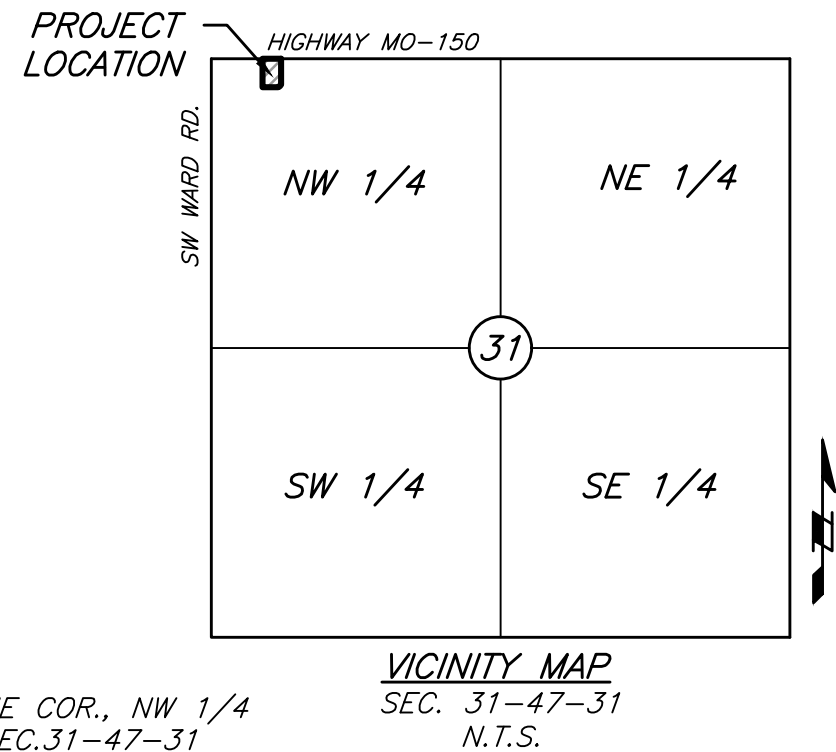


GENERAL SURVEY NOTES:

- The plat of RAINTREE LAKE VILLAGE is recorded in Plat Book 1-89 at Page 66 in the Recorder of Deeds Office in Jackson County, Missouri.
- Title Report No. MJ117076 dated April 12, 2021 at 8:00 am provided by First American Title Insurance Company.
- Bearings used on this survey are based on the Missouri State Plane coordinate system from GPS observation.
- The subject property is located in Zone X, areas determined to be outside the 0.2% annual chance floodplain, as shown on Flood Insurance Rate Map (FIRM) 29095C0532G, effective January 20, 2017.
- There are NO parking stalls identified on Subject Property at the time of this survey.
- There were no Wetland delineation at the time of survey.
- This property is Zoned CP-2, Planned Community Commercial
- Water utilities are based on the City Map image provided by City of Lee's Summit, Missouri, GIS department.

UTILITY NOTE:

The utilities on this survey are shown based on source information from plans and markings and were combined with observed evidence of utilities pursuant to Section 5.E.iv, to develop a view of the underground utilities. However, lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. In addition, in some jurisdictions, 811 or other similar utility locate requests from surveyors may be ignored or result in an incomplete response, in which case the surveyor shall note on the plat or map how this affected the surveyor's assessment of the location of the utilities. Where additional or more detailed information is required, the client is advised that excavation and/or a private utility locate request may be necessary.



TITLE DESCRIPTION:

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

SCHEDULE B - PART II NOTES:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

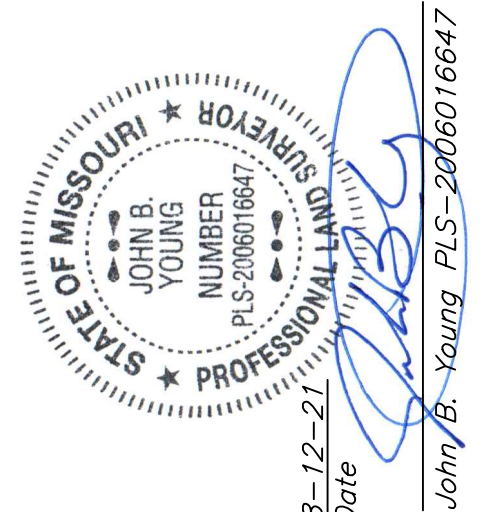
SURVEY CONTROL POINTS				
Point #	Northing	Easting	Elevation	Description
1	974540.74	2824139.37	993.44	JA137
41	977854.30	2818488.69	998.56	CHLSD SQ
50	978172.10	2818534.58	1002.12	CP +
51	977856.50	2818545.74	1001.18	CP +
52	977819.61	2818298.73	991.45	CP +

BENCHMARKS:

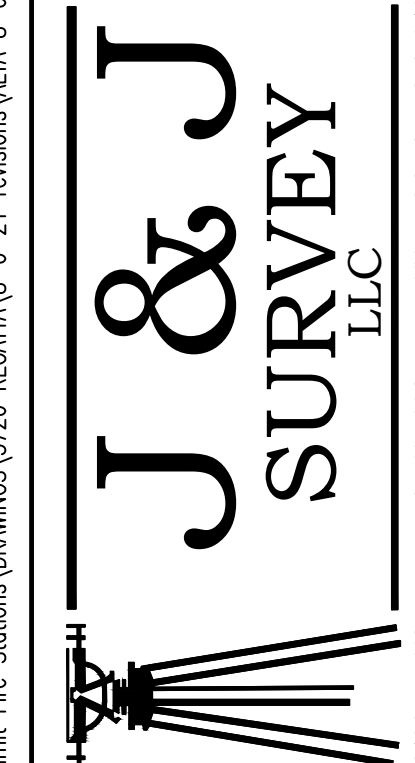
STATION JA 137: Alum Disk, Located about 0.7 miles South of the intersection of highway 150 and highway 291 of Lee's Summit.

ELEVATION = 993.44

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



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



1	2	INITIAL SUBMITTAL	REVISED PER COMMENTS	08-04-21	08-12-21						

SHEET 1 OF 1

FILE PATH: BM 360//18225R21001_LeesSummitFireStation_#4 and #5LSMO_FIRE STATIONS_STRUCT_F55.vt

E

D

C

B

A

1. ALL WORK SHALL CONFORM TO 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI.
2. DESIGN LOADS
- A. ROOF LOAD (5 PSF NET UPLIFT)
1. DEAD LOAD TOP CHORD 20 PSF
 2. DEAD LOAD BOT. CHORD 5 PSF
 3. LIVE LOAD TOP CHORD 25 PSF
 4. LIVE LOAD BOT. CHORD 0 PSF (U.N.O)
- B. ROOF LOAD (STORM SHELTER)
1. DEAD LOAD SELF PSF
 2. LIVE LOAD 170 PSF
- C. FLOOR LOADS
1. DEAD LOAD 55 PSF
 2. LIVE LOAD 100 PSF
- D. STAIR LOADS
1. DEAD LOAD 40 PSF
 2. LIVE LOAD 100 PSF
- E. ROOF SNOW LOAD
1. FLAT ROOF SNOW LOAD, P_f 24 PSF
 2. SNOW EXPOSURE FACTOR, C_e 0.9
 3. SNOW LOAD IMPORTANCE FACTOR, I 1.2
 4. THERMAL FACTOR, C_t 1.1
 5. DRIFTING PER CODE
- F. WIND LOADS
1. BASIC WIND SPEED (3 SECOND GUST) 122 MPH
 2. WIND IMPORTANCE FACTOR, I 1.0
 3. BUILDING CATEGORY IV
 4. WIND EXPOSURE B
 5. COMPONENTS AND CLADDING DESIGN VALUE (U.N.O.) 25 PSF
- G. SEISMIC LOADS
1. CATEGORY IV
 2. $S_s=$ 0.099
 3. $S_1=$ 0.068
 4. $S_{DS}=$ 0.105
 5. $S_{D1}=$ 0.108
 6. SEISMIC IMPORTANCE FACTOR, I 1.5
 7. SITE CLASS C
 8. SEISMIC DESIGN CATEGORY
 9. SEISMIC FORCE RESISTING SYSTEMS; STEEL ORDINARY MOMENT FRAMES
 10. RESPONSE MODIFICATION COEFFICIENT, R 3 1/2
 11. SEISMIC RESPONSE COEFFICIENTS, C_s 0.045
 12. DESIGN BASE SHEAR 22 K
 13. ANALYSIS PROCEDURE; EQUIVALENT LATERAL FORCE PROCEDURE.
- H. WIND LOADS - STORM SHELTER
1. SHELTER TYPE TORNADO SHELTER
 2. BASIC WIND SPEED (3 SECOND GUST) 250 MPH
 3. WIND IMPORTANCE FACTOR, I 1.0
 4. BUILDING CATEGORY IV
 5. WIND EXPOSURE C
 6. INTERNAL PRESSURE COEFFICIENT; GCPI +/- 0.55
 7. WALL COMPONENTS & CLADDING (U.N.O.) REF. S-307
 8. ROOF COMPONENTS & CLADDING (U.N.O.) REF. S-307
 9. WIND UPLIFT 163 PSF
 10. TOPOGRAPHIC FACTOR; K_{zt} 1.0
 11. DIRECTIONALITY FACTOR; K_d 1.0
 12. THE WIND DESIGN CONFORMS TO THE PROVISIONS OF THE ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS PER THE ICC 500 2020.
 13. STRUCTURE IS NOT LOCATED IN A FLOOD ZONE.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO FABRICATION. REFERENCE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. IF DISCREPANCIES EXIST BETWEEN SPECIFICATIONS, CONTRACT DRAWINGS, AND/OR SHOP DRAWINGS NOTIFY THE ENGINEER OF RECORD.
5. THE CONTRACTOR SHALL REVIEW DRAWINGS FROM ALL OTHER DISCIPLINES FOR PERTINENT MISC. ITEMS OR INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED.
6. THE BUILDING IS NOT STRUCTURALLY STABLE UNTIL ALL CONNECTIONS, FRAMING, SHEAR WALLS, PERMANENT BRACING, AND EXTERIOR LOAD-BEARING WALLS ARE COMPLETE AND HAVE ACHIEVED THEIR RESPECTIVE DESIGN STRENGTHS. CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING STRUCTURAL STABILITY DURING ERECTION AND CONSTRUCTION. TEMPORARY BRACING SYSTEMS ARE NOT TO BE REMOVED UNTIL STRUCTURAL WORK IS COMPLETE.
7. PROVIDE ADEQUATE SHORING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADS DUE TO CONSTRUCTION. DO NOT BACKFILL UNTIL CONCRETE HAS CURED 14 DAYS.
9. FOUNDATIONS
- A. FOUNDATIONS ARE DESIGNED TO BEAR ON 2000 PSF FOR STRIP FOOTINGS ON SOIL AND 2000 PSF FOR SPREAD FOOTINGS ON SOIL PER GEOTECH REPORT # AOG 21-126E-1 BY ALPHA OMEGA GEOTECHS.
- B. CONTRACTOR SHALL REMOVE EXISTING FOOTINGS AND FOUNDATIONS THAT ARE LOCATED WITHIN THE FOOTPRINT OF THE NEW BUILDING.
- C. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAL REPORT OR WHEN DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF BEARING CAPACITY.
10. CONCRETE
- A. CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS.
- B. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:
1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS: 4000 PSI (w/c MAX 0.45)
 2. SLAB ON GRADE: 4000 PSI (w/c MAX 0.42)
 3. ELEVATED COMPOSITE SLAB: 4000 PSI (w/c MAX 0.42)
 4. REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.
- C. SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH.
- D. IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMIXTURES.
- E. CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES.
- F. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-145) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY IF ADMIXTURE IS TO BE ADDED IN THE FIELD IS SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (I.E. 5 GALLON BUCKET).
- G. CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (+/- 1%) ENTRAINED AIR BY VOLUME.
- H. CHAMFER ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE.
- I. ALL CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL BE CUT TO 1/3 OF DEPTH WHEN USING WET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING EARLY-ENTRY DRY-CUT PROCESS. CUT JOINTS AS SOON AS APPLICABLE PER PROCESS USED AFTER CONCRETE HAS BEEN PLACED WITHOUT DISLODGING AGGREGATE, OR USE A KEVED COLD JOINT.
- J. CUT SLABS-ON-GRADE INTO AREAS OF APPROXIMATELY 225 SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS POSSIBLE. LENGTH TO WIDTH RATIOS OF JOINTED PANELS SHALL NOT EXCEED 1.5:1. COORDINATE LOCATIONS OF CONTROL JOINTS WITH ARCHITECT.
- K. CONTROL JOINTS IN WALLS SHALL BE PLACED AT 20'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. LOCATE JOINTS BESIDE PIERS INTEGRAL WITH WALLS, NEAR CORNERS, AND IN CONCEALED LOCATIONS WHERE POSSIBLE. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CONTROL JOINTS AT CONTRACTOR'S DISCRETION. COORDINATE LOCATION OF CONTROL JOINTS WITH ARCHITECT.
- L. PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THOROUGHLY CHECKED AND COORDINATED ALL DIMENSIONS, ELEVATIONS, OPENINGS, RECESS, AND BLOCKOUTS AS SHOWN ON ANY CONTRACT DRAWINGS. IN THE EVENT ERRORS, CONFLICTS, OR OMISSIONS EXIST, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ARCHITECT OR ENGINEER FOR NECESSARY CORRECTIVE ACTION.
- M. EMBEDDED ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR PRIOR TO PLACING CONCRETE.
- N. ANCHOR RODS AND ANCHOR BOLTS SHALL BE HELD IN PLACE WITH A RIGID TEMPLATE
- O. HORIZONTAL JOINTS BEYOND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUCTED WITHOUT THE APPROVAL OF THE ARCHITECT AND ENGINEER.

11. REINFORCING STEEL
- A. ALL REINFORCING SHALL BE ASTM A615 GRADE 60, EXCEPT WELDED REINFORCING WHICH SHALL BE ASTM A706 GRADE 60.
- B. ALL WELDED WIRE FABRIC SHALL BE ASTM A82 COLD DRAWN WIRE.
- C. ALL ACCESSORIES FOR SUPPORTING REINFORCING SHALL BE GALVANIZED OR HAVE PLASTIC-COATED FEET.
- D. PROVIDE CORNER BARS AT THE EXTERIOR FACE OF ALL WALL AND FOOTING CORNERS EQUAL TO HORIZONTAL BARS.
- E. REINFORCING SHALL BE DETAILED, FABRICATED, PLACE, AND SUPPORTED IN ACCORDANCE WITH ACI 315, LATEST APPLICABLE EDITION.
- F. STANDARD COVERAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.
1. PERMANENTLY EXPOSED TO WEATHER
 - A. CAST AGAINST EARTH 3"
 - B. IN CONTACT WITH WATER 3"
 - C. FORMED 2"
 2. NOT EXPOSED TO EARTH OR WEATHER
 - A. SLABS AND WALLS 3/4"
 - B. BEAMS AND COLUMNS 1 1/2"
- G. SPLICE LENGTH
1. 3000 PSI CONCRETE
 - A. NON-COATED 55 db (BAR DIAMETER)
 - B. EPOXY COATED 83 db
 2. 4000 PSI CONCRETE
 - A. NON-COATED 48 db
 - B. EPOXY COATED 72 db
 3. 5000 PSI CONCRETE
 - A. NON-COATED 43 db
 - B. EPOXY COATED 64 db
- H. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN AND NOTED ON THE CONTRACT DRAWINGS OR PERMITTED BY THE ENGINEER OF RECORD.
- I. ALL REINFORCEMENT AND EMBEDDED ITEMS INCLUDING PLATES AND ANCHOR RODS SHALL BE ACCURATELY PLACED, ADEQUATELY SUPPORTED, AND SECURED AGAINST DISPLACEMENT BEFORE CONCRETE IS PLACED. NEITHER REINFORCEMENT NOR EMBEDDED ITEMS SHALL BE PLACED INTO FRESHLY PLACED CONCRETE UNLESS APPROVED BY THE ENGINEER OF RECORD.
12. MASONRY
- A. MASONRY UNIT COMPRESSIVE STRENGTH (f'_m) = 1500 PSI. MORTAR - TYPE S.
- B. LINTELS SHALL BE STEEL BEAMS OR MASONRY BOND BEAMS AS SHOWN ON THE PLANS. OPENINGS LESS THAN 4'-0" WIDE SHALL BE A BOND BEAM WITH (2) #5 CONTINUOUS EXTENDING PAST OPENINGS A MIN. OF 2'-0".
- C. GROUT ALL REINFORCED CELLS AND CELLS BELOW GRADE SOLID.
- D. PLACE A BOND BEAM WITH/ (2) #5 CONTINUOUS AT THE TOP OF WALLS & 8'-0" O.C. VERTICALLY.
- E. REINFORCE 8" CMU WALLS WITH #5 @ 32" O.C. VERT. AND 12" CMU WALLS WITH #5 @ 24" O.C. VERT. UNLESS NOTED OTHERWISE. IN ADDITION, REINFORCE WALL CORNERS AND JAMBS OF WINDOWS AND DOORS WITH (2) #5 EXTENDING PAST OPENINGS A MIN. OF 2'-0".
- F. BRACE THE TOPS OF PARTITION WALLS TO THE UNDERSIDE OF DECK.
13. STRUCTURAL STEEL
- A. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST APPLICABLE EDITION AND AISC CODE OF STANDARD PRACTICE.
- B. ALL STRUCTURAL STEEL FOR WIDE FLANGE SHALL BE A992 GRADE 50 UNLESS NOTED OTHERWISE. ALL ANGLES, PLATES AND CHANNELS SHALL BE ASTM A36 UNLESS NOTED OTHERWISE. ALL RECTANGULAR AND ROUND HSS SHAPES SHALL BE ASTM A500, GRADE B.
- C. ALL BOLTS SHALL BE 3/4" Ø A-325 BOLTS WITH HEAVY HEX HEADS UNLESS NOTED OTHERWISE. ALL CONNECTIONS SHALL HAVE A MINIMUM OF (2) 3/4" Ø BOLTS, BEARING TYPE CONNECTIONS ONLY.
- D. ALL STRUCTURAL STEEL WELDS IN THE SHOP OR IN THE FIELD SHALL BE PERFORMED BY A QUALIFIED WELDER AND SHALL CONFORM TO THE CURRENT REQUIREMENTS OF A.W.S.
- E. SHOP WELDED AND FIELD BOLTED CONNECTIONS ARE PREFERRED UNLESS NOTED OTHERWISE.
- F. ALL STEEL EXPOSED TO THE EXTERIOR, EXHIBITS, POOLS, AND LSS AREAS SHALL BE HOT-DIP GALVANIZED AND PAINTED PER ARCHITECT UNLESS NOTED OTHERWISE.
- G. THE CONTRACTOR SHALL PROVIDE SHELF ANGLES, GLASS SUPPORTS, LINTELS, AND OTHER MISC. STEEL AS SHOWN ON THESE DRAWINGS AS REQUIRED TO PROVIDE SUPPORT (STABILIZATION) AROUND AND THROUGHOUT THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISC. STEEL DETAILS.
14. COLD-FORMED STEEL
- A. ALL LIGHT GAGE METAL FRAMING AND CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISI (SPECIFICATION FOR THE SIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS) (AND NAAMM ML/SA540 LIGHTWEIGHT STEEL FRAMING SYSTEMS MANUAL)
- B. ALL LIGHT GAGE METAL FRAMING SHOWN IN THESE DOCUMENTS SHALL BE IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
- C. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A-655 STEEL MATERIAL AND SHALL HAVE A MINIMUM YIELD STRESS OF 33 KSI.
- D. WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.3 - LATEST EDITION, STRUCTURAL WELDING CODE, SHEET STEEL.
- E. SUGGESTED WELD METAL AND PROCESS FOR SHOP WELDING ARE, 70 KSI WELD METAL STRENGTH, SUGGESTED METHODS FOR FIELD WELDING, 1/8" E70XX ELECTRODE-SMAW OR GASLESS M16.
- F. MINIMUM WELD THROAT THICKNESS (t) MUST MATCH OR EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE
- G. WEB STIFFENERS FOR STUD JOISTS SHALL BE PROVIDED AT ALL REACTION POINTS, INTERMEDIATE CONCENTRATED LOADS, AND WHERE INDICATED ON THE DRAWINGS.
- H. SEQUENCING OF WELDS SHALL BE SO AS TO AVOID DISTORTION OF MEMBERS.
- I. REPLACE ALL MEMBER WHEN BURN THROUGH DURING WELDING.
- J. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED ON ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.
- K. NO SPLICES IN STUDS, JOISTS, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE WITHOUT PRIOR ENGINEERING REVIEW AND SPECIFIC DETAILS FOR ANY SUCH SPLICE.
- L. TOP AND BOTTOM TRACKS TO MATCH GAGE OF STUD.
- INSTALL CONTINUOUS HORIZONTAL BRIDGING IN STUD SYSTEM, SPACED (VERTICAL DISTANCE) NOT TO EXCEED 4'-0" O.C. WELD OR FASTEN TO EACH STUD.
15. POST CONSTRUCTION ANCHORS
- A. POST INSTALLED ANCHORS ARE NOT TO BE SUBSTITUTED FOR ANCHORS SHOWN ON THE DRAWINGS. IF CAST IN PLACE ANCHOR IS DETERMINED TO BE OUT OF TOLERANCE OR OMITTED, CONTRACTOR MUST GENERATE A REQUEST FOR INFORMATION IN REGARDS TO THE SOLUTION. THIS SECTION IS NOT MEANT AS A DIRECT SUBSTITUTION FOR CAST IN PLACE ANCHORS.
- B. MECHANICAL ANCHORS SHALL BE SIMPSON TITEN HD ANCHORS UNLESS NOTED OTHERWISE. MINIMUM EMBEDMENT FOR ANCHORS ARE AS FOLLOWS UNLESS NOTED OTHERWISE.
1. 1/2" Ø ANCHORS 5 3/4"
 2. 5/8" Ø ANCHORS 5 3/4"
 3. 3/4" Ø ANCHORS 5 3/4"
- C. EPOXY ANCHORS IN HOLLOW MASONRY SHALL USE HILTI HY 20 ADHESIVE WITH SCREEN TUBES UNLESS NOTED OTHERWISE.
- D. EPOXY ANCHORS IN CONCRETE SHALL USE HILTI HY 150 ADHESIVE. MINIMUM EMBEDMENT FOR ANCHORS ARE AS FOLLOWS UNLESS NOTED OTHERWISE.
1. 1/2" Ø ANCHORS 4 1/4"
 2. 5/8" Ø ANCHORS 5"
 3. 3/4" Ø ANCHORS 6 5/8"
 4. 1" Ø ANCHORS 8 1/4"
- E. EMBEDMENT DEPTH SHALL BE DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE.
- F. OBSERVATION AND VERIFICATION OF EMBEDMENT HOLE CLEANING, DEPTH, AND ANCHOR INSTALLATION IS REQUIRED FOR ALL EPOXY ANCHORS.
- G. EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, CURRENT WITH THE REQUIREMENTS OF THE PROJECT.

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.

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

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

16. STRUCTURAL ENGINEER SITE OBSERVATIONS
- A. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCES.
- B. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR AN OTHER PERSONS PERFORMING ANY OF THE WORK, OR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- C. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF LEIGH & O'KANE L.L.C. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
17. SUBMITTALS
- A. ALL SHOP DRAWINGS AND SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL. ENGINEER'S REVIEW OF SHOP DRAWINGS IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF COMPONENTS AND MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE DESIGN DRAWINGS, QUANTITIES, DIMENSIONAL ERRORS, OR OMISSIONS IN THE SHOP DRAWINGS.
- B. ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS OF THESE CONTRACT DOCUMENTS.
- C. SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF EACH MEMBER AND ITS CONNECTIONS. DETAIL DRAWINGS ARE TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI FOR THE FOLLOWING ITEMS.
1. LIGHT GAGE METAL FRAMING
 2. COLD FORMED BAR JOISTS
- D. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING ITEMS.
1. CONCRETE MIX DESIGN AND MATERIALS
 2. CONCRETE REINFORCING STEEL
 3. MASONRY REINFORCING STEEL
 4. STRUCTURAL STEEL
 5. LIGHT GAGE METAL FRAMING
 6. COLD FORMED ROOF, FLOOR JOISTS AND JOIST GIRDERS
- E. PROVIDE A FINAL, "FOR CONSTRUCTION" SET OF ALL SHOP DRAWINGS TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION OF THOSE ITEMS.
18. SPECIAL INSPECTIONS
- A. THE FOLLOWING MINIMUM ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CODE. LOCAL CITY MAY REQUIRE ADDITIONAL SPECIAL INSPECTIONS.
1. CONCRETE PLACING
 2. CONCRETE REINFORCING
 3. STEEL BOLTING
 4. STEEL WELDING
 5. BOLTS EMBEDDED IN CONCRETE / POST-INSTALLED ANCHORS
 6. ANCHOR RODS
 7. ROOF DIAPHRAGM ATTACHMENT
 8. MASONRY
 9. SOIL VERIFICATION
 10. STEEL FRAME
- B. THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.
- C. STRUCTURAL OBSERVATIONS SHALL BE PROVIDED DURING CONSTRUCTION OF THE SHELTER BY A REGISTERED PROFESSIONAL.

STANDARD ABBREVIATIONS

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



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FIRE STATION #5
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISONS:

#	Description	Date
1	ASH 01	11/16/2022



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

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GENERAL NOTES

S-001



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LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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11.14.2022

PROJECT NO: 18225R21001

DATE: 11.16.2022

DRAWN BY: JMB

CHKD BY: WNH

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**FOUNDATION
PLAN**

S-100

PLEASE CONSIDER THE ENVIRONMENT
BEFORE PRINTING THIS

FOUNDATION PLAN NOTES:

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

STRUCTURAL FOUNDATION SCHEDULE

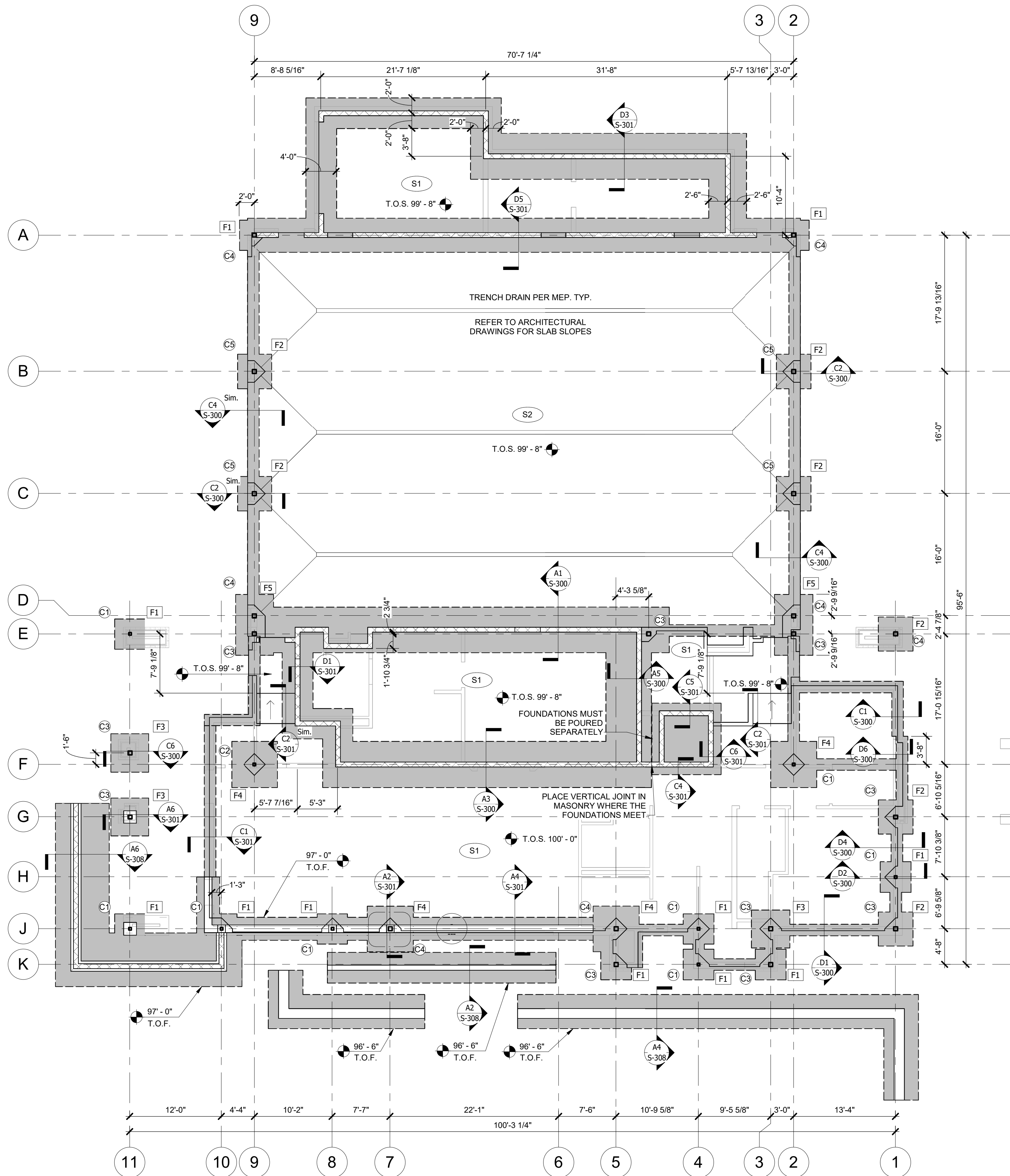
MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT
F1	4' - 0"	4' - 0"	2' - 4"	#6 @ 8" O.C. EW TB
F2	4' - 6"	4' - 6"	2' - 4"	#6 @ 8" O.C. EW TB
F3	5' - 0"	5' - 0"	2' - 4"	#6 @ 8" O.C. EW TB
F4	6' - 0"	6' - 0"	2' - 4"	#6 @ 8" O.C. EW TB
F5	8' - 0"	5' - 0"	2' - 4"	#6 @ 8" O.C. EW TB

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.



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



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FIRE STATION #5
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ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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11.14.2022

PROJECT NO: 18225R21001

DATE: 11.16.2022

DRAWN BY: JMB

CHKD BY: WNH

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LEVEL 2
FRAMING PLAN

S-101

PLEASE CONSIDER THE ENVIRONMENT
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ROOF FRAMING PLAN NOTES:

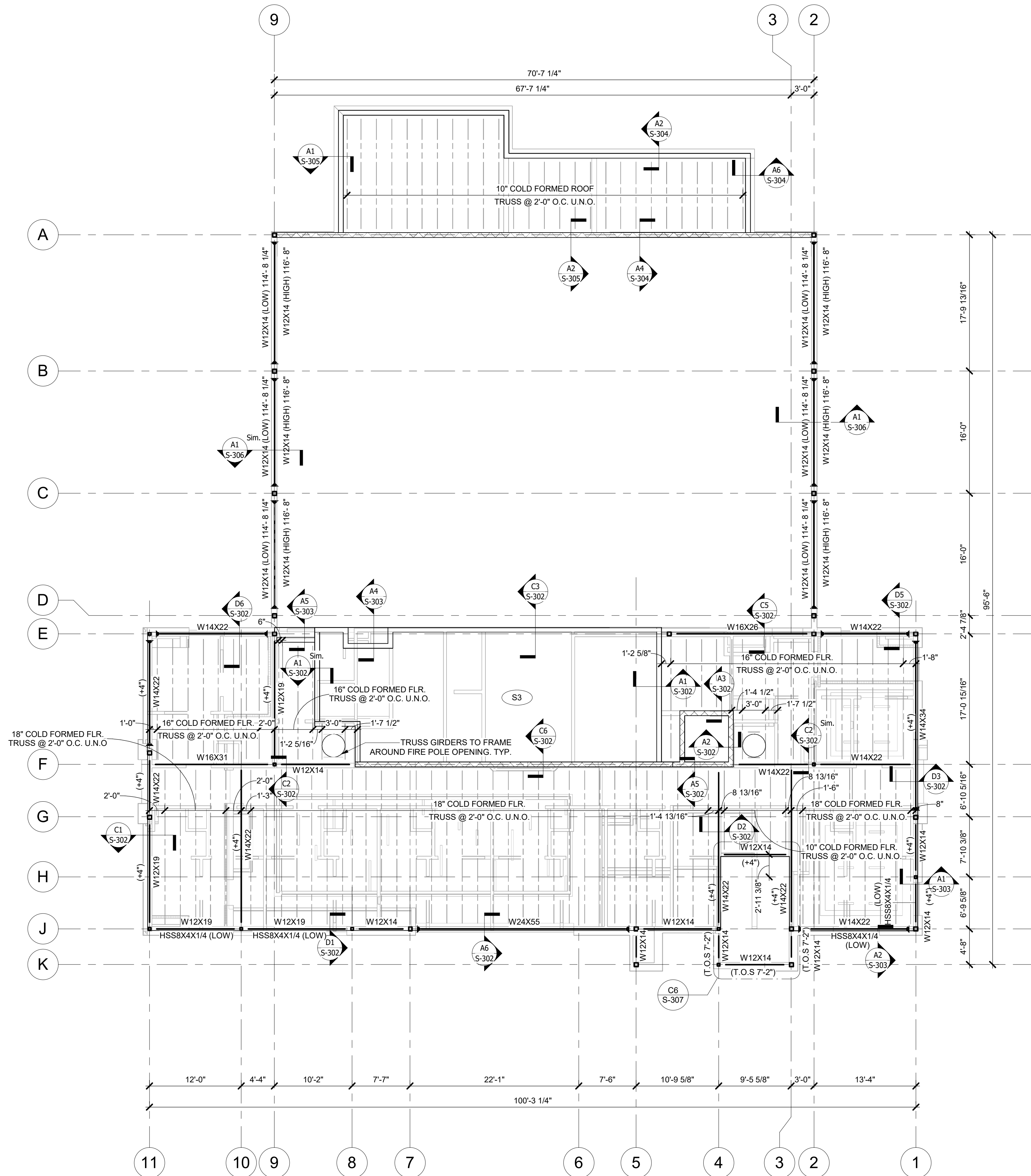
1. ROOF DECK TO BE 1.5B 20 GA. DECK FASTENED IN A 36/4 PATTERN USING # 10 SCREWS
2. OPENINGS IN THE ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
3. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE PLANS.
4. NON-LOAD BEARING STUD WALLS SHALL HAVE 1" GAP BETWEEN TOP OF 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 LONG AS THE MAX SPACING IS UPHELD.

FLOOR FRAMING PLAN NOTES:

1. T.O.S. 112'-1"
2. FLOOR DECK 0.6C 22GA. METAL DECK W/ 3" TOTAL DEPTH CONCRETE FASTENED TO SUPPORTS USING #10 SCREWS IN A 36/4 PATTERN W/ (3) # 10 SCREW SIDE LAP FASTENERS PER SPAN. DECK MUST SPAN A MIN. OF 2 SPANS. REINFORCE CONCRETE W/ WWF 6X6 - W1.4XW1.4
3. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
4. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
5. NON-LOAD BEARING WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF FLOOR FRAMING.
6. COLD FORMED FLOOR JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
7. COLD FORMED JOISTS TO BE 16 GA. METAL OR THICKER AS REQUIRED BY DESIGN.
8. SPECIFIED TRUSS SPACINGS ARE A MAXIMUM. TRUSSES CAN BE SHIFTED AS NEEDED AS LONG AS THE MAX SPACING IS UPHELD.

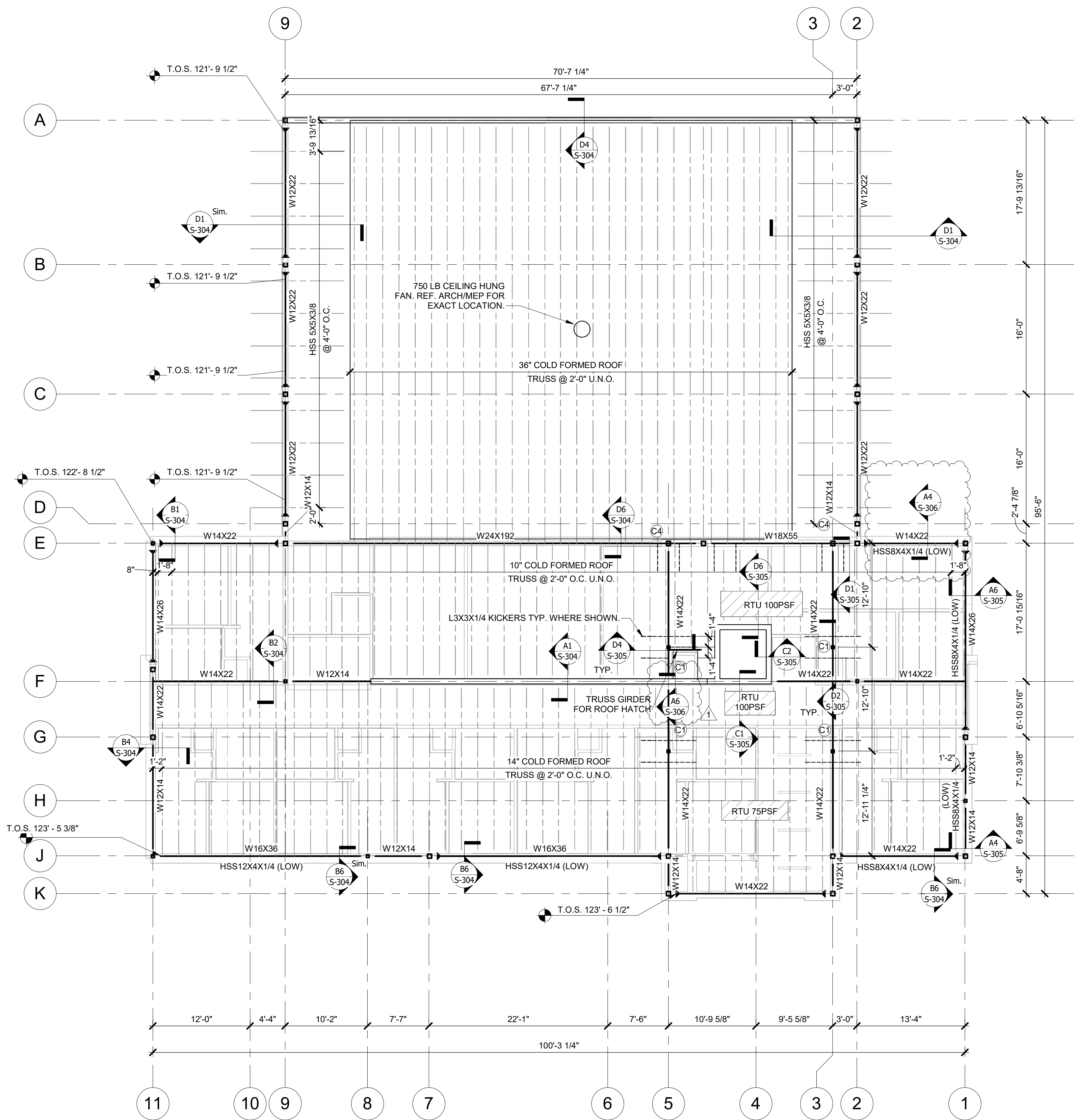
SLAB SCHEDULE

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



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

FILE PATH: BM 360//18225R21001_LeesSummitFireStation_#4 and #5LSMO_FIRE STATIONS_STRUCT_F55.vt




- ROOF FRAMING PLAN NOTES:
1. ROOF DECK TO BE 1.5B 20 GA. DECK FASTENED IN A 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

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

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



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LEE'S SUMMIT, MISSOURI 64082

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REVISIONS:

#	Description	Date
1	ASB 01	11/16/2022

STATE OF MISSOURI
JORDAN M. BENNETT
NUMBER
PE-2022019960
PROFESSIONAL ENGINEER
11.14.2022

PROJECT NO: 18225R21001

DATE: 11.16.2022

DRAWN BY: JMB

CHKD BY: WNH

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LOW ROOF
FRAMING PLAN

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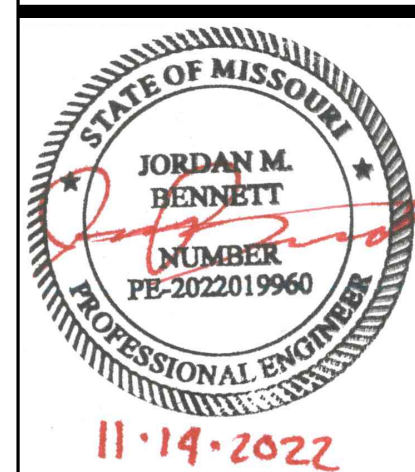
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REVISIONS:

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PROJECT NO: 18225R210

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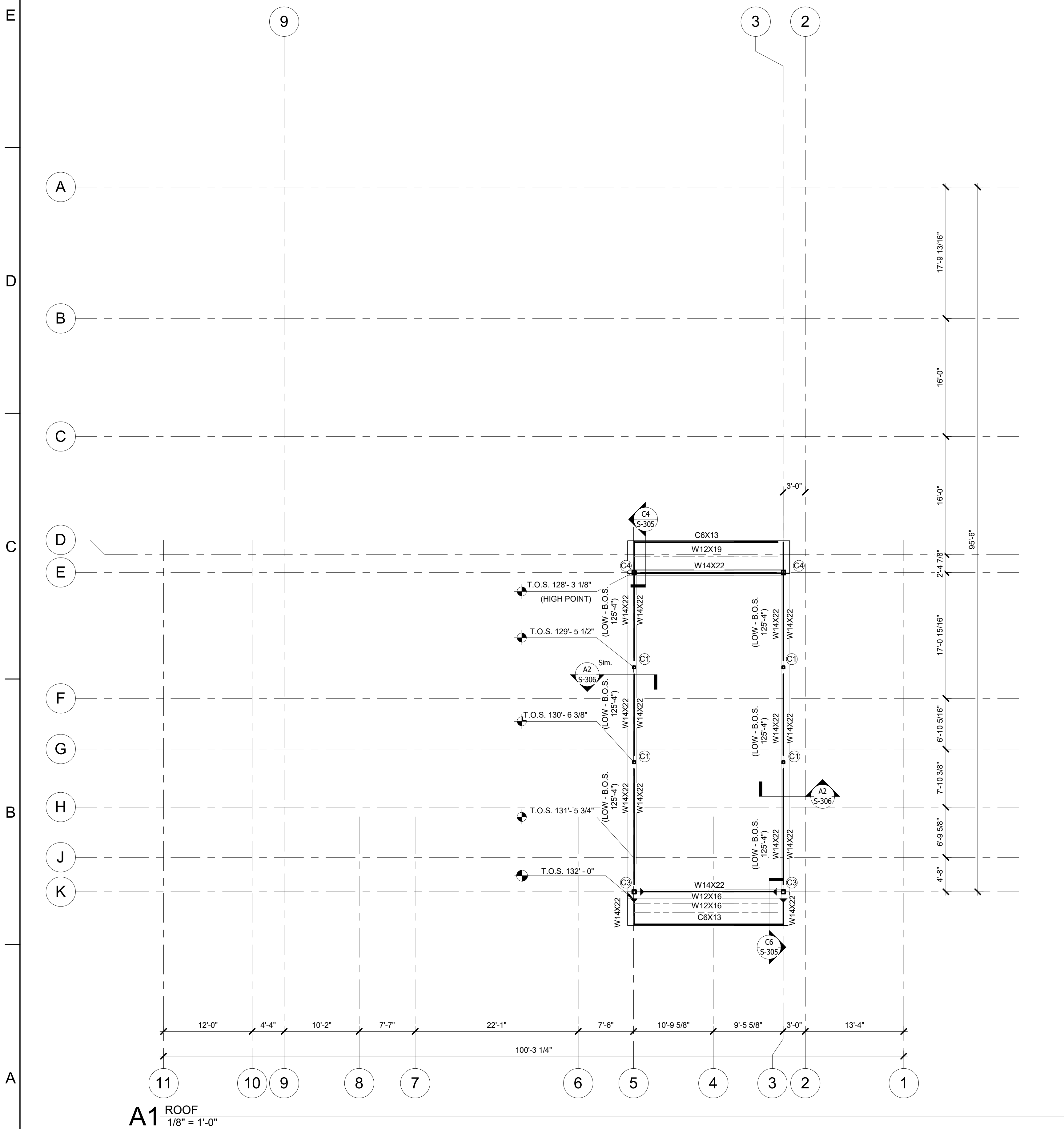
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HIGH ROOF FRAMING PLAN

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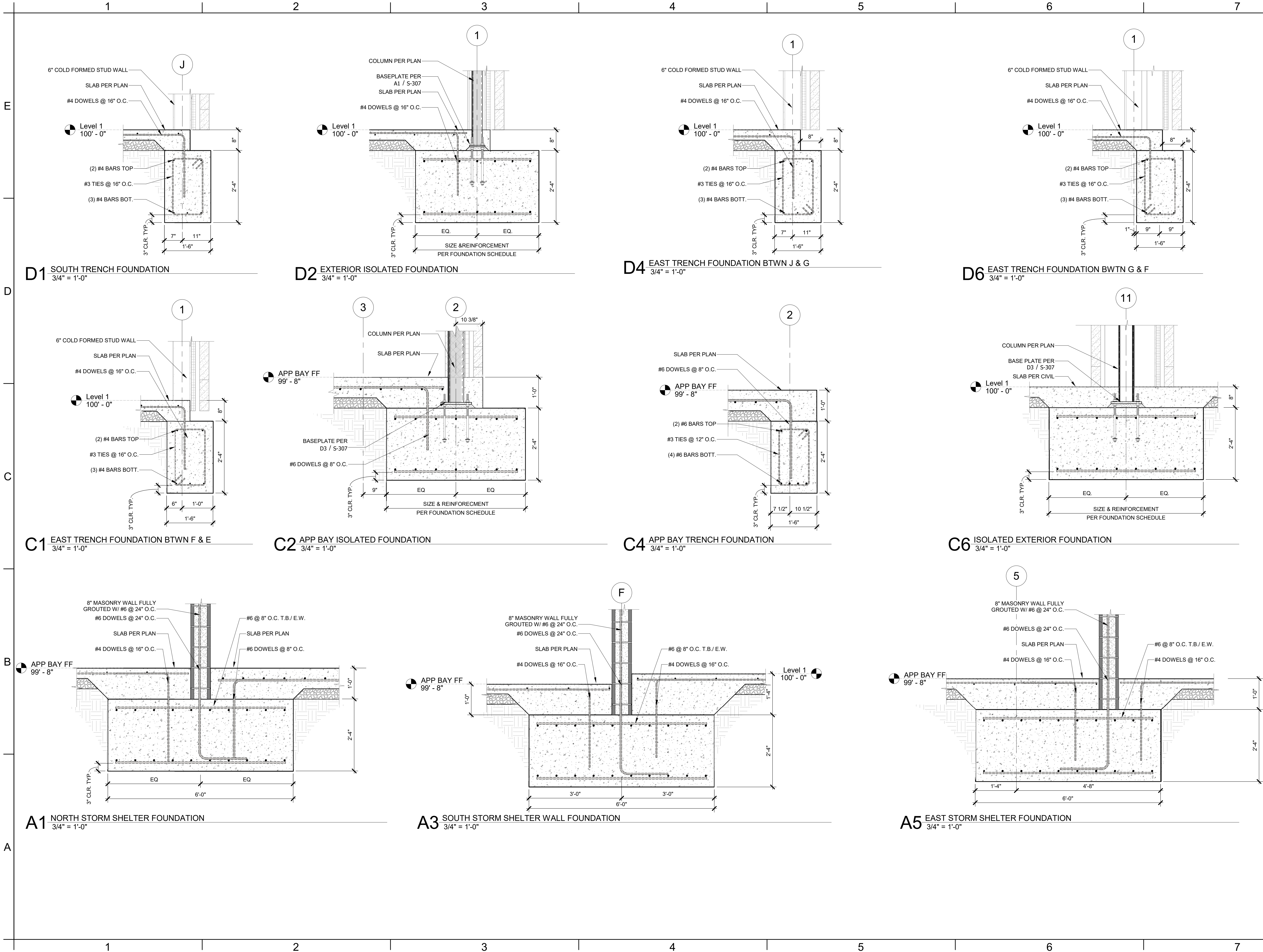
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801 MISSOURI HIGHWAY 150
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REVISIONS:

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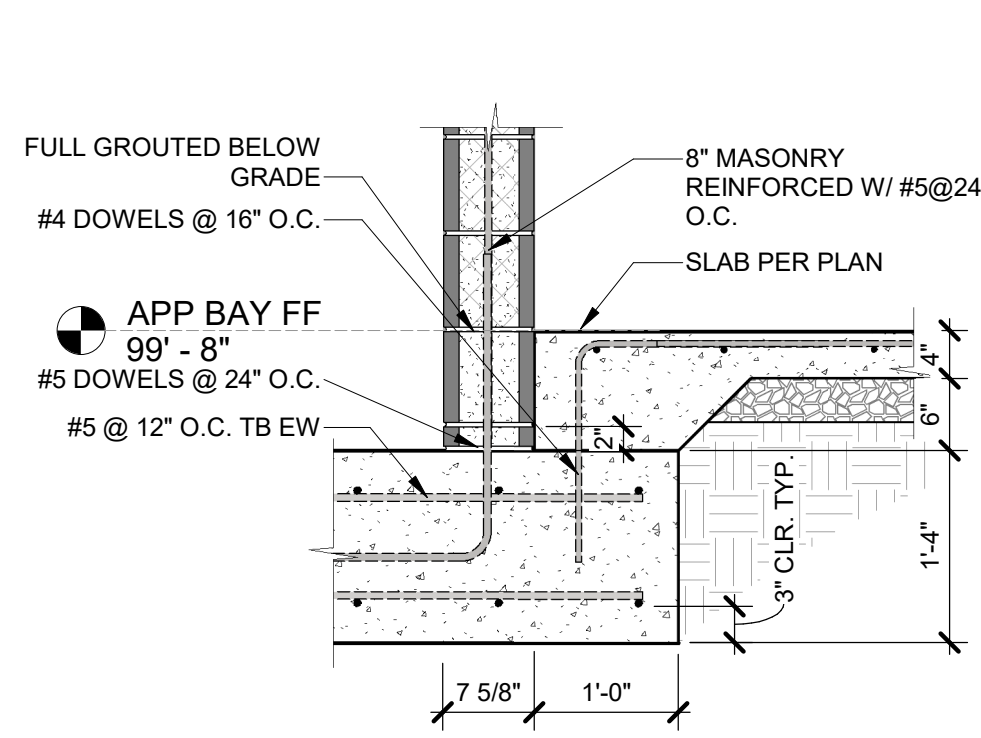
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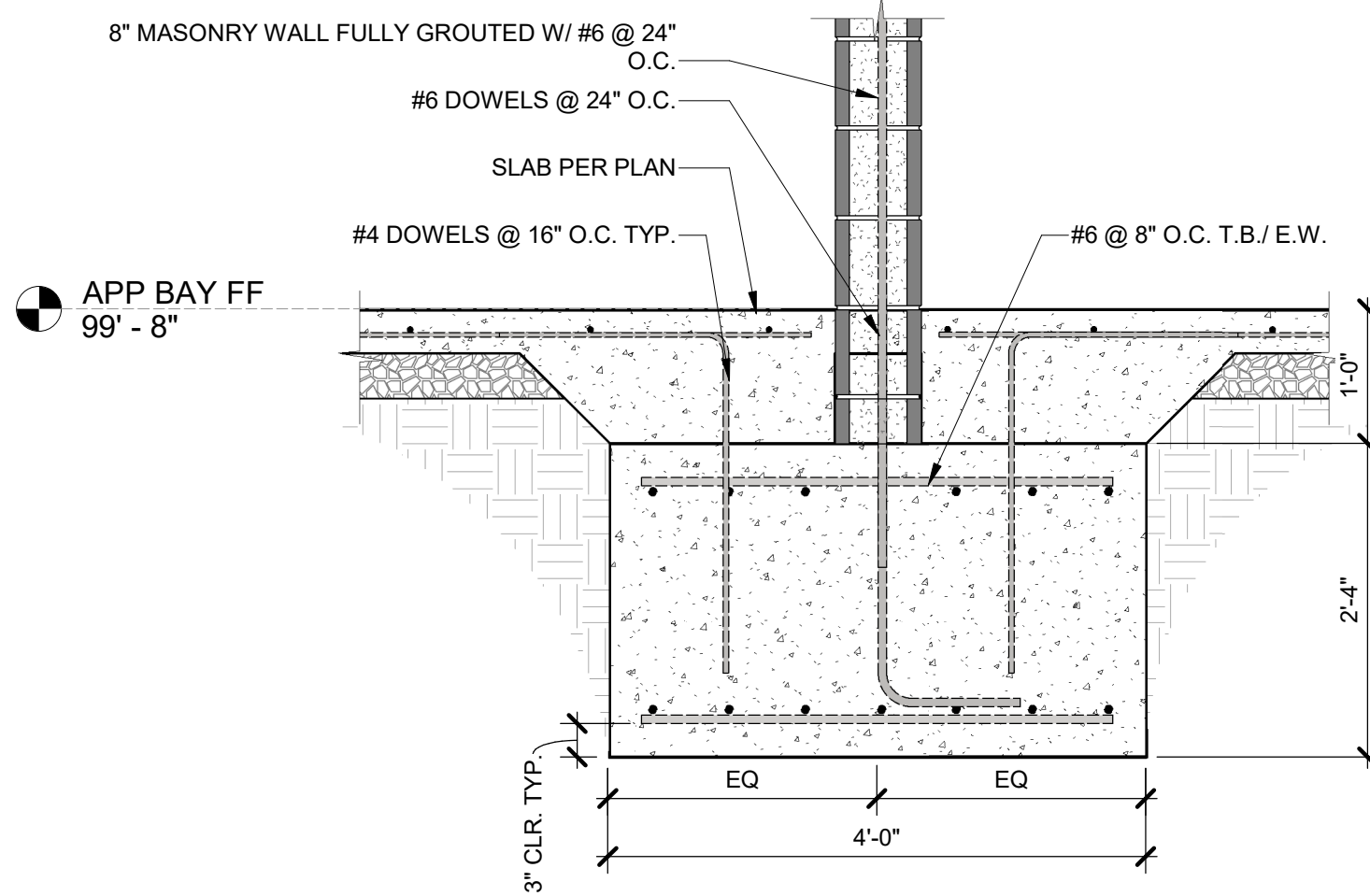
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SECTIONS**

S-301

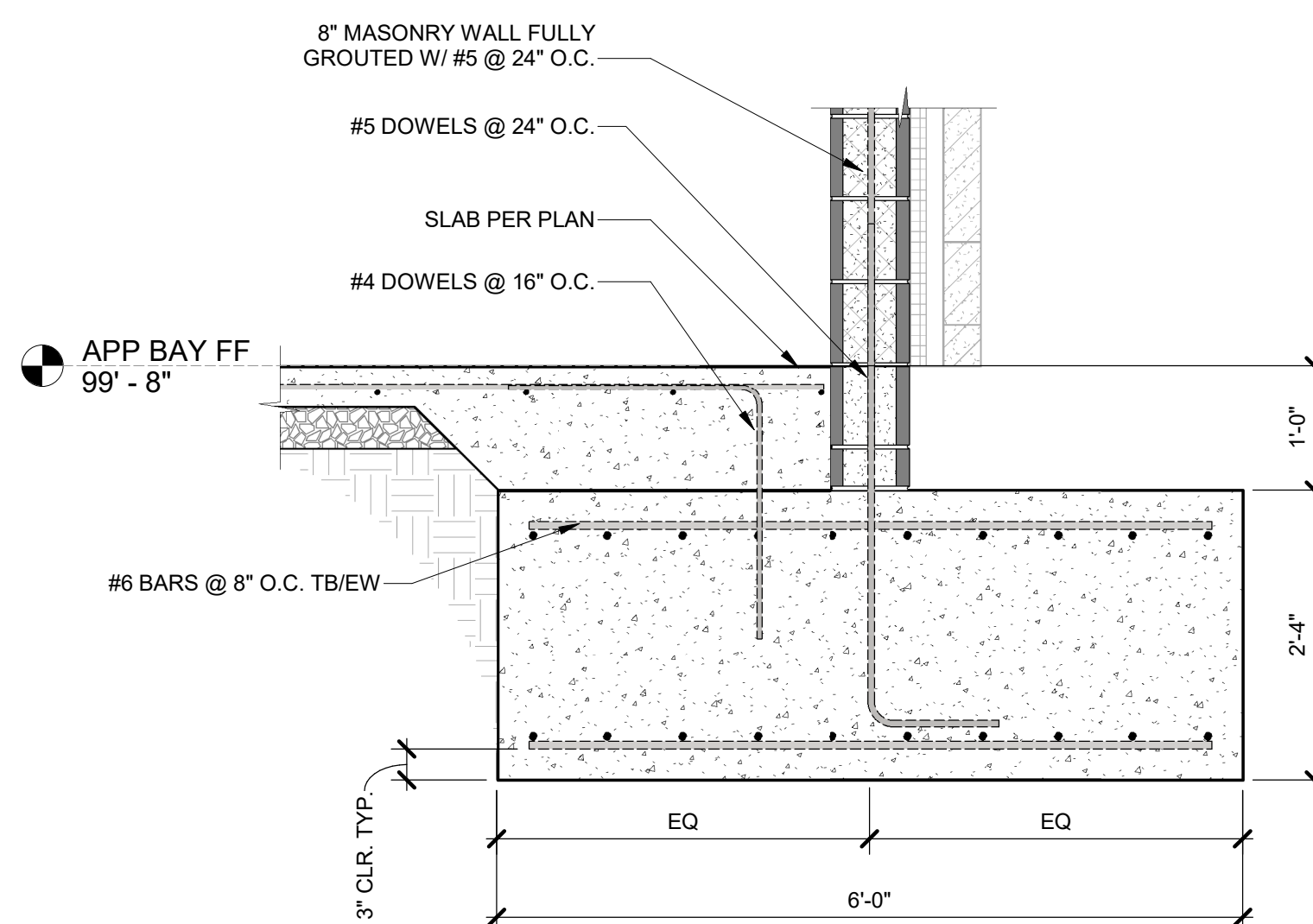
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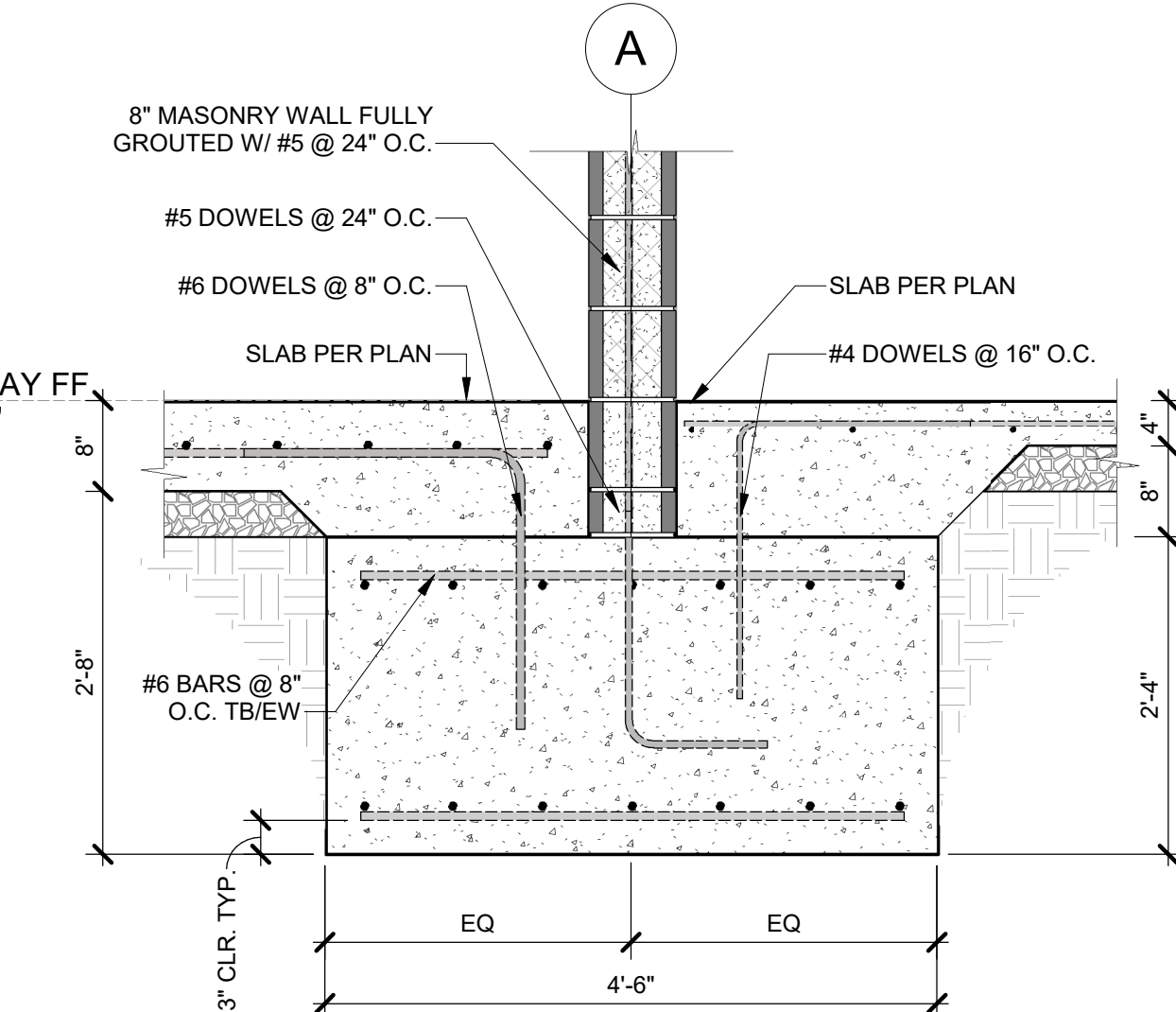
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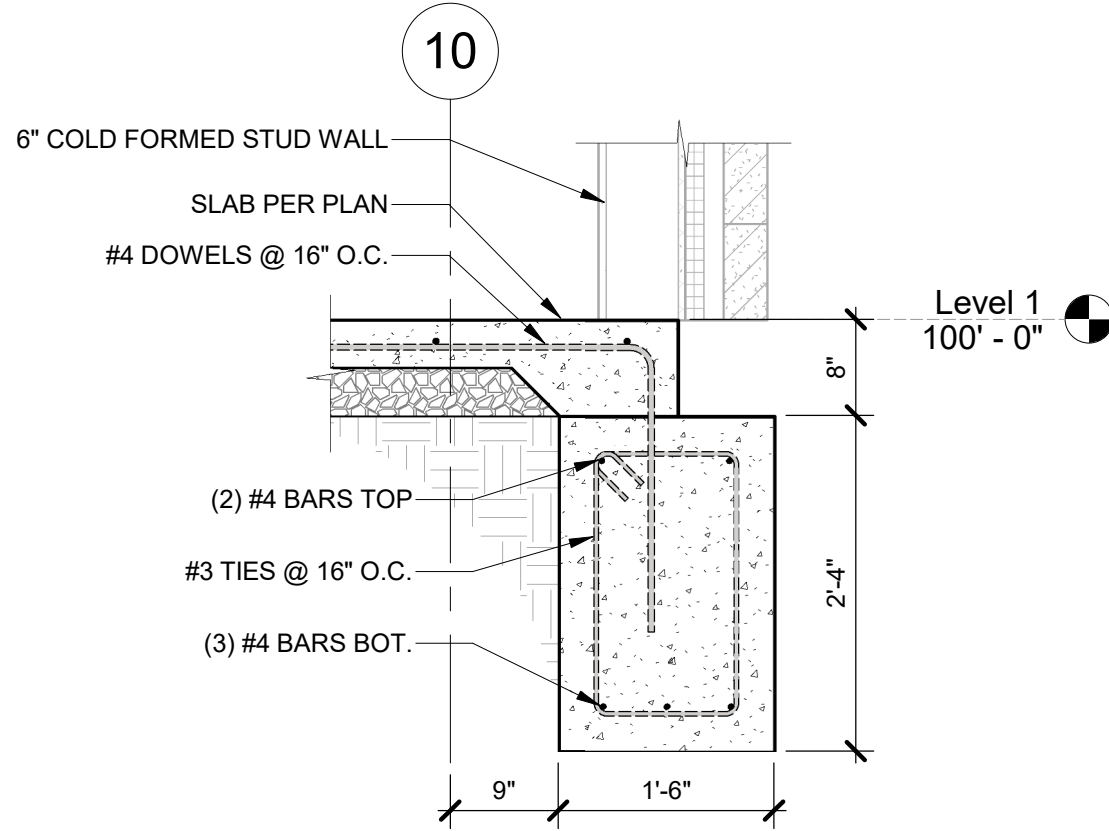
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3/4" = 1'-0"



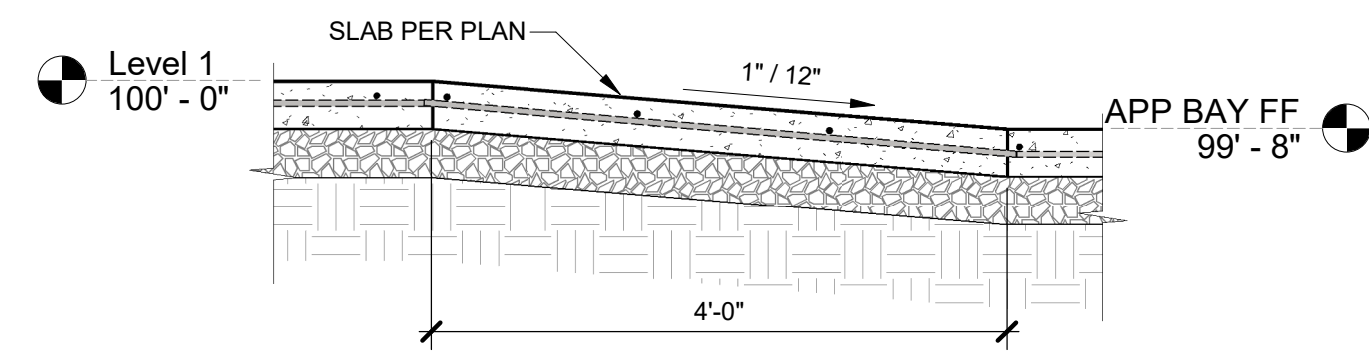
D3 EXTERIOR MASONRY WALL FOUNDATION
3/4" = 1'-0"



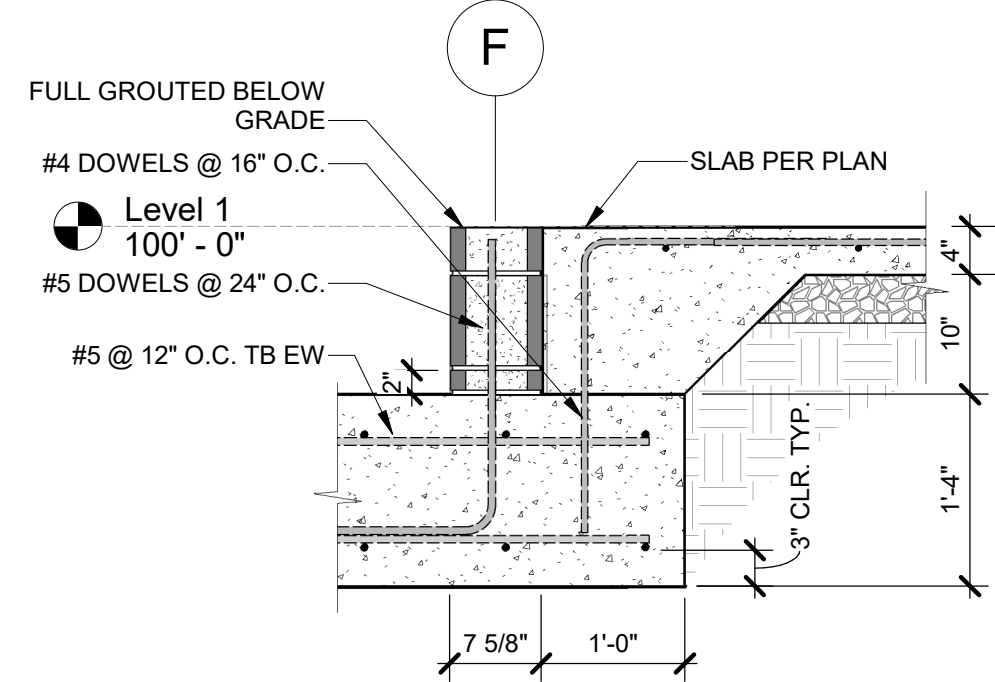
D5 APP BAY NORTH MASONRY WALL FOUNDATION
3/4" = 1'-0"



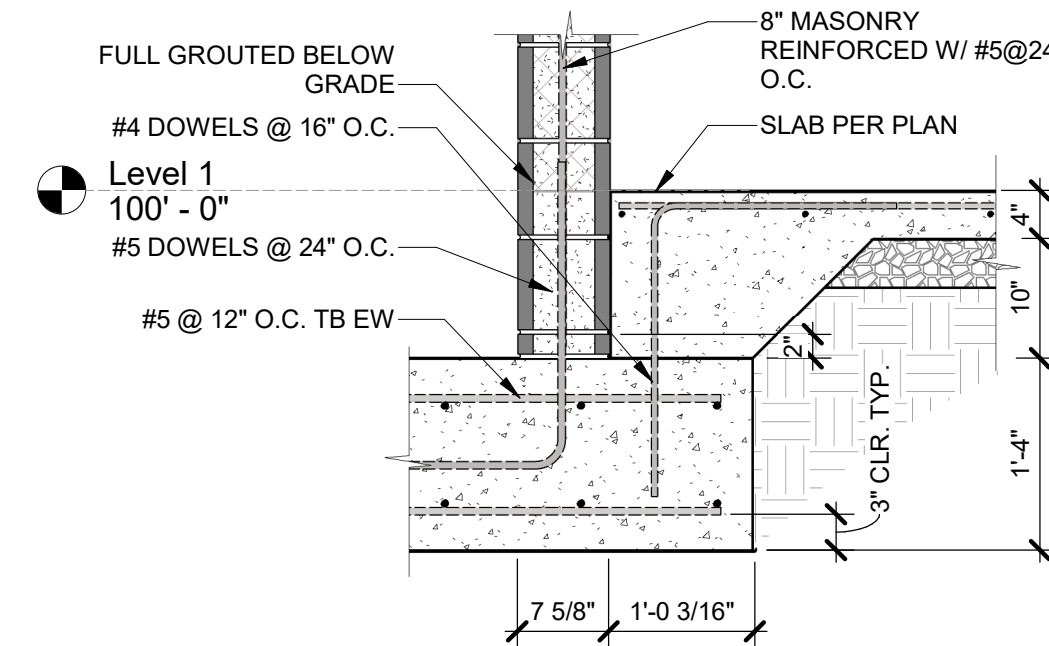
C1 WEST TRENCH FOUNDATION
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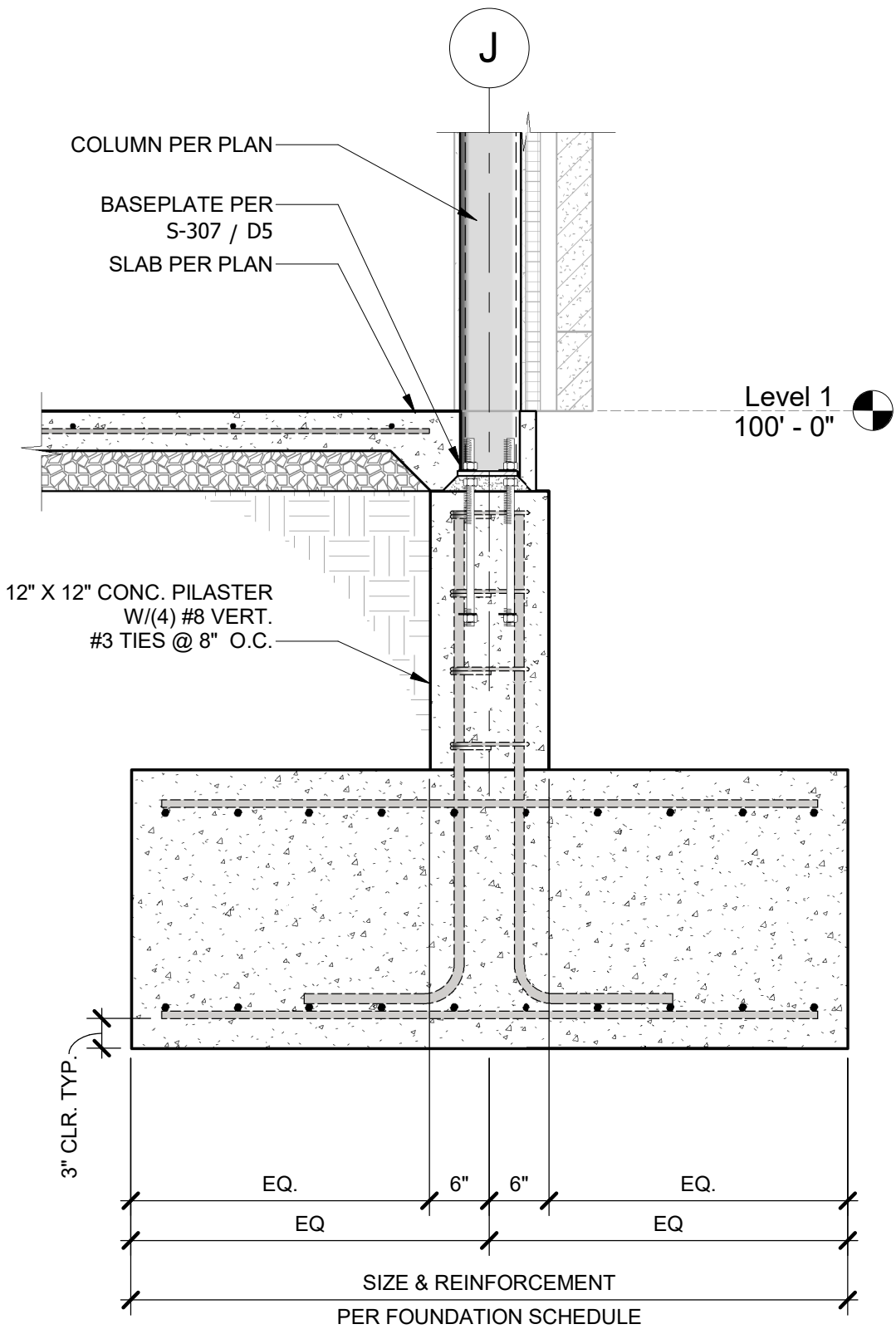
C2 FLOOR SLAB RAMP SECTION
3/4" = 1'-0"



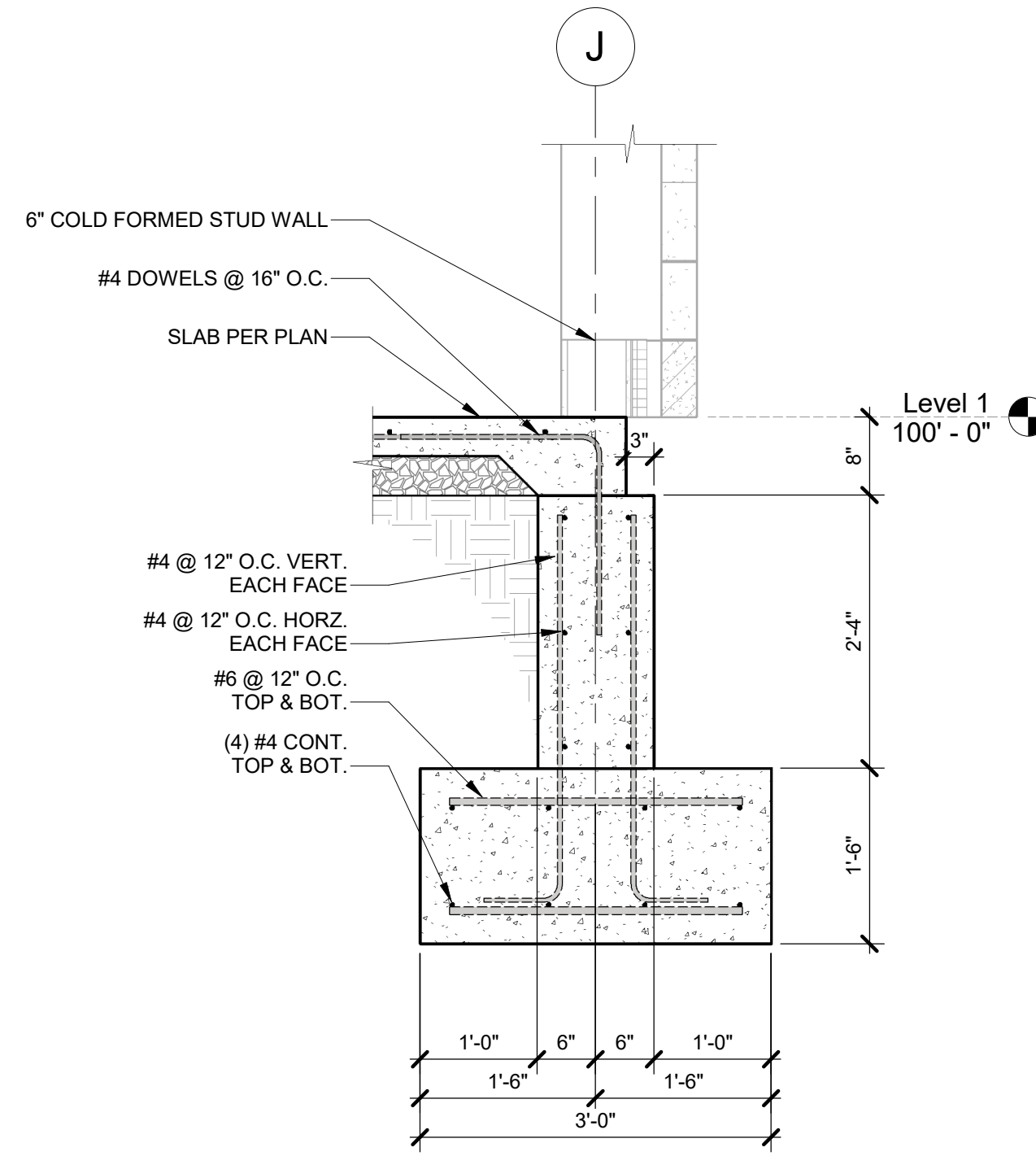
C4 ELEVATOR FOUNDATION SECTION
3/4" = 1'-0"



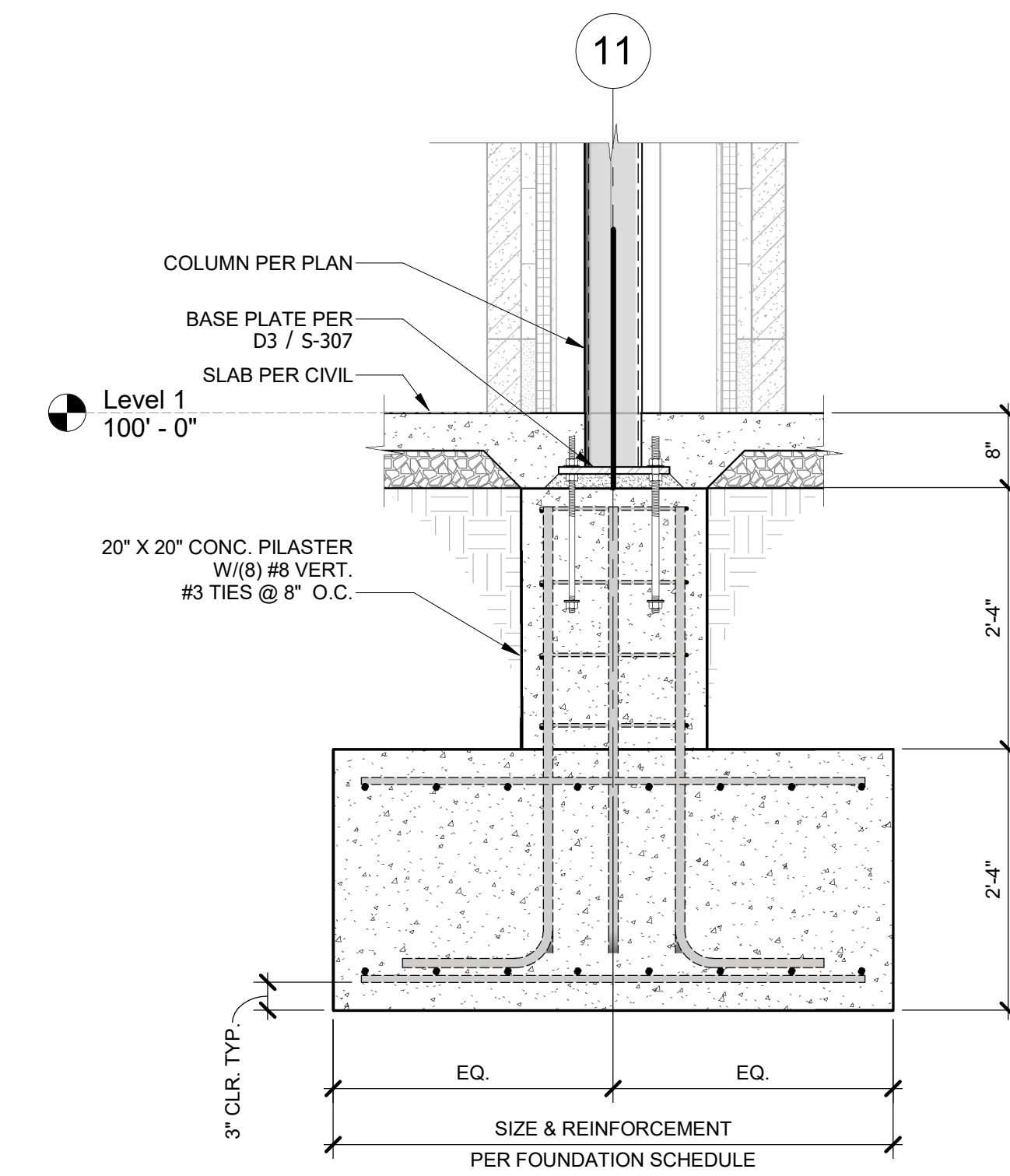
C6 SECTION
3/4" = 1'-0"



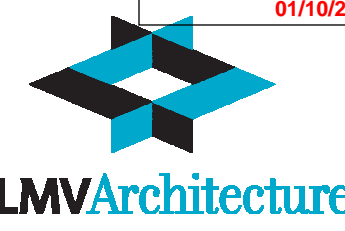
A2 EXTERIOR ISOLATED FOUNDATION SOUTH
3/4" = 1'-0"



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



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



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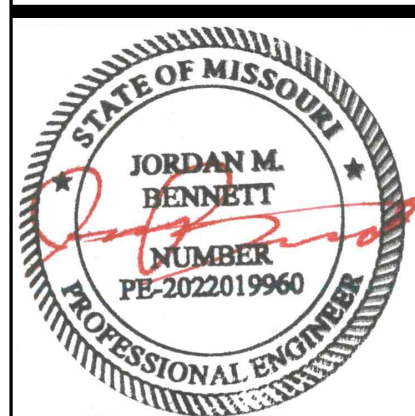
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#	Description	Date
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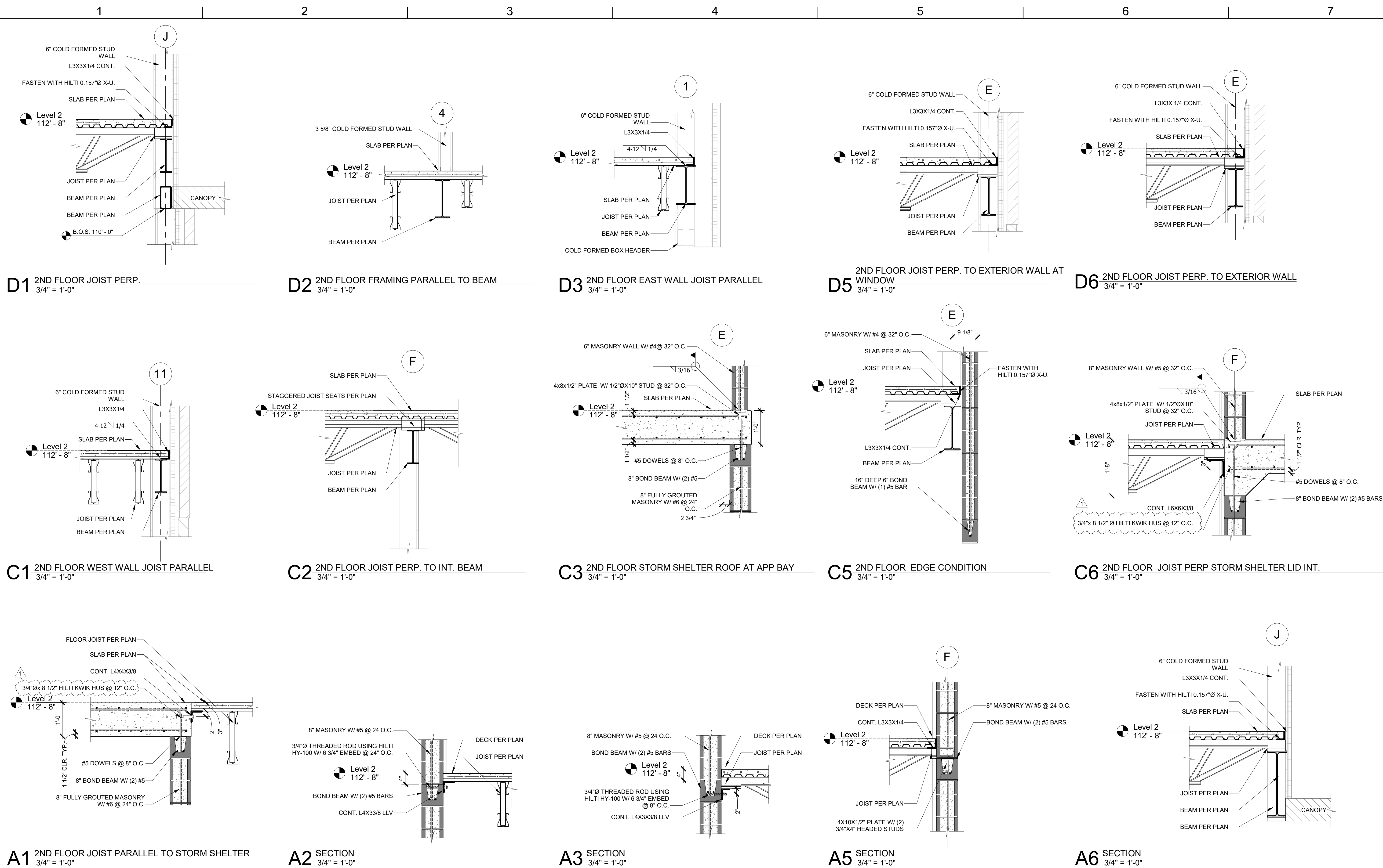
PROJECT NO:	18225R21001
DATE:	11.16.2022
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CHKD BY:	WNH

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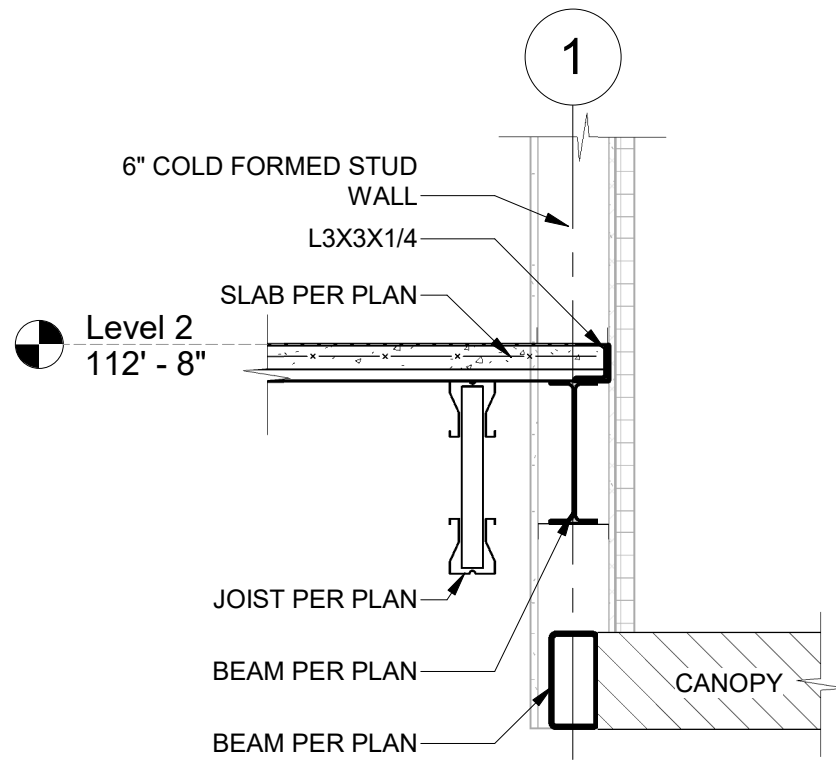
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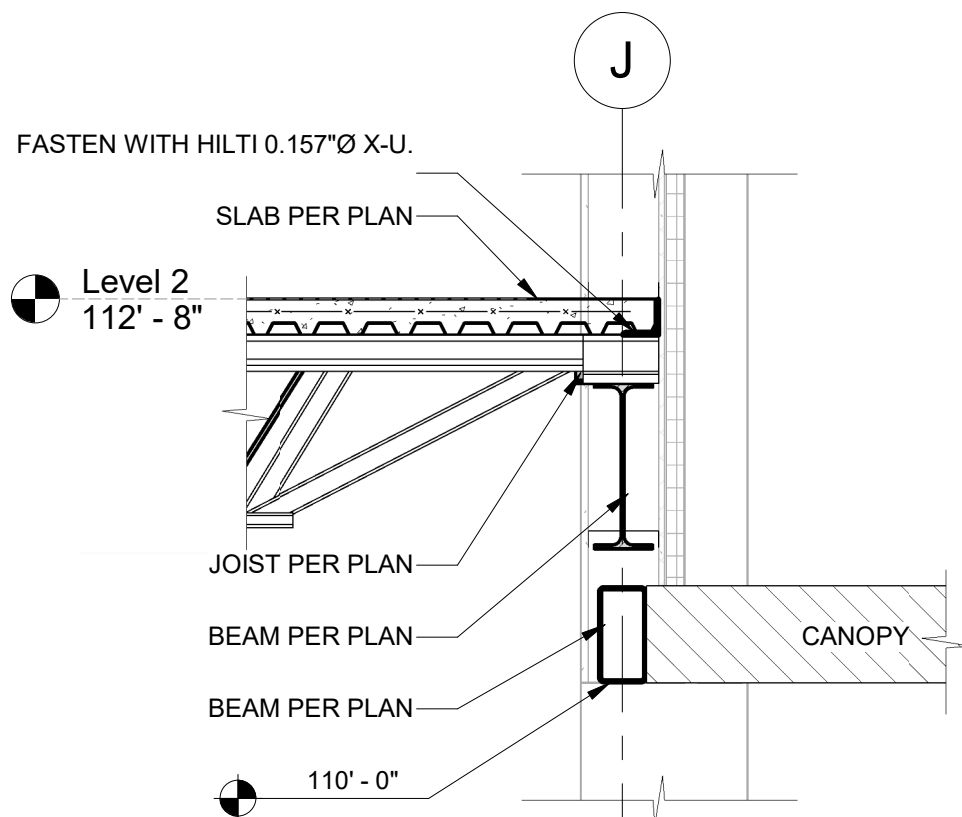
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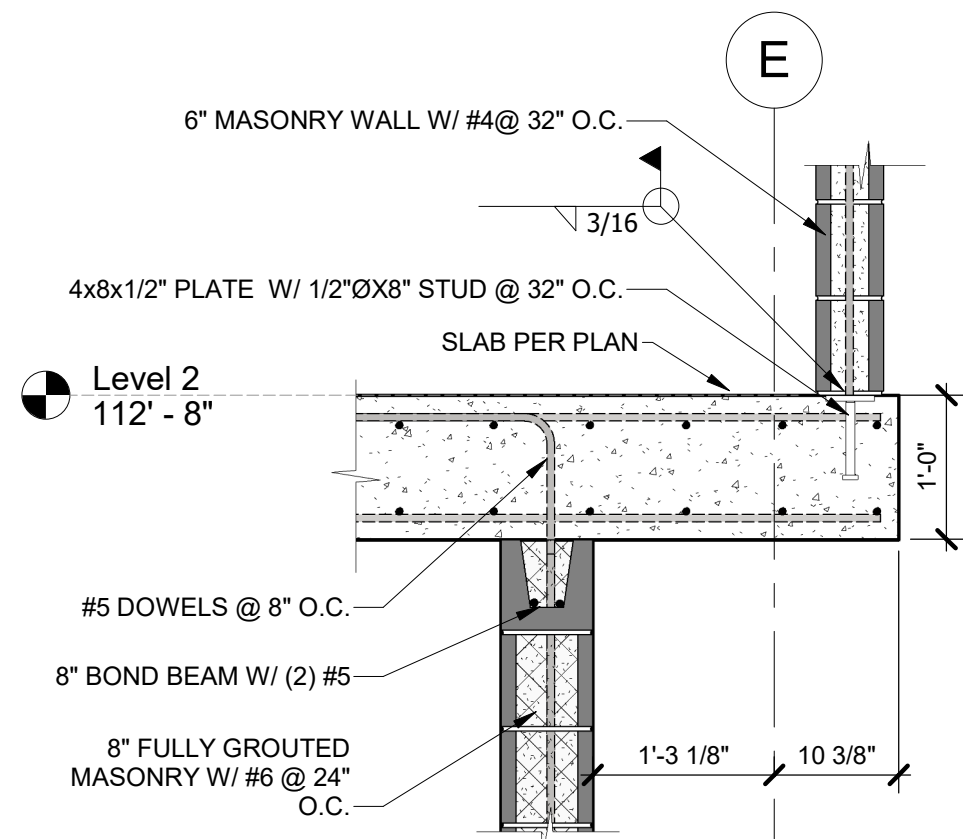
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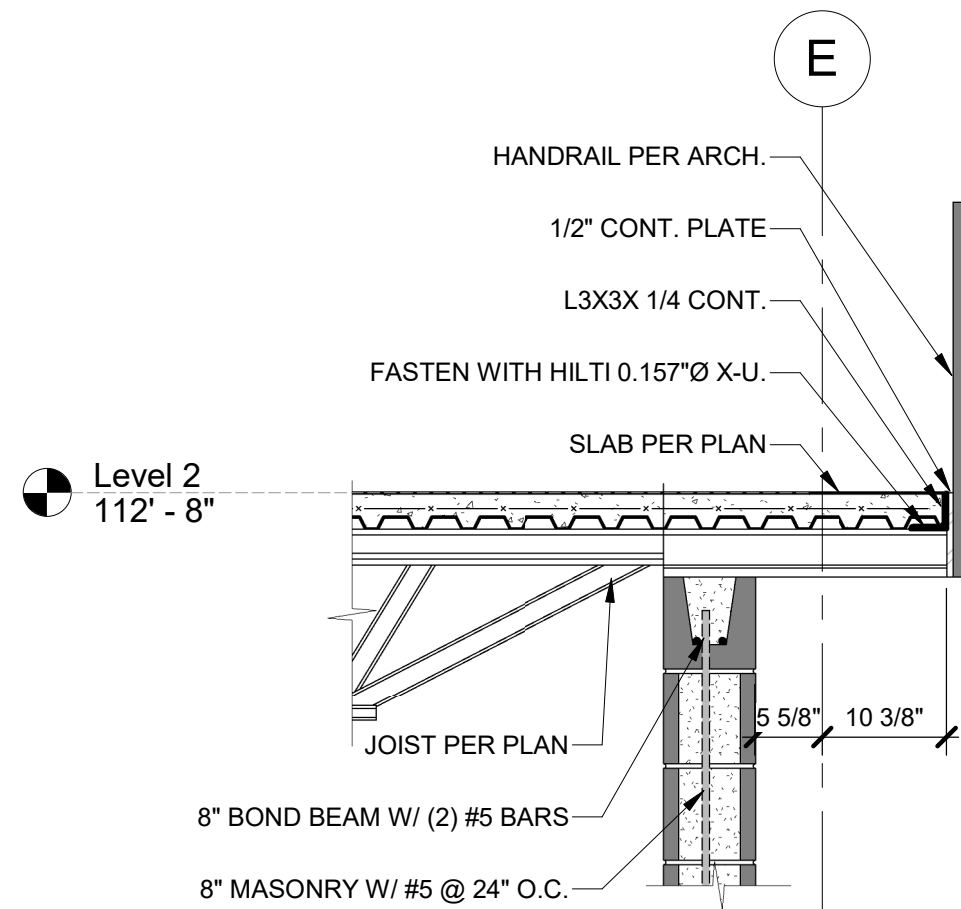
A1 SECTION
3/4" = 1'-0"



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



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



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



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PROJECT NO: 18225R21001

DATE: 11.16.2022

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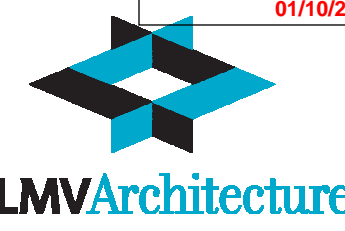
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11.14.2022

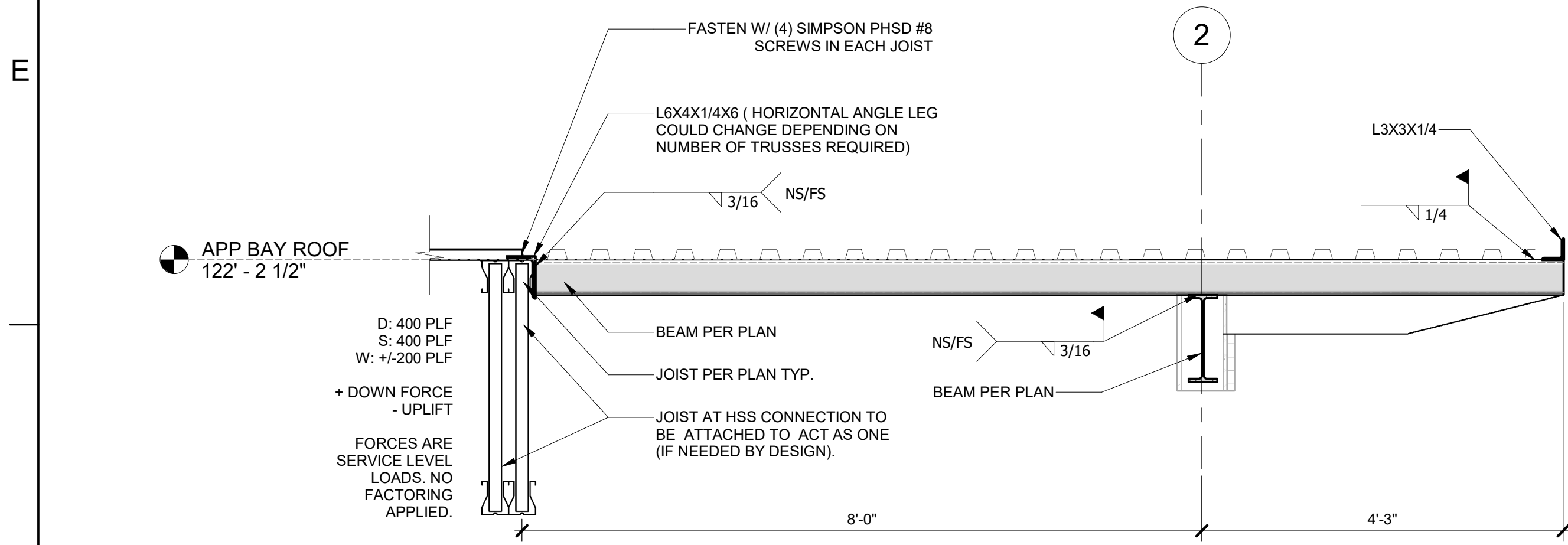
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DATE: 11.16.2022
DRAWN BY: JMB
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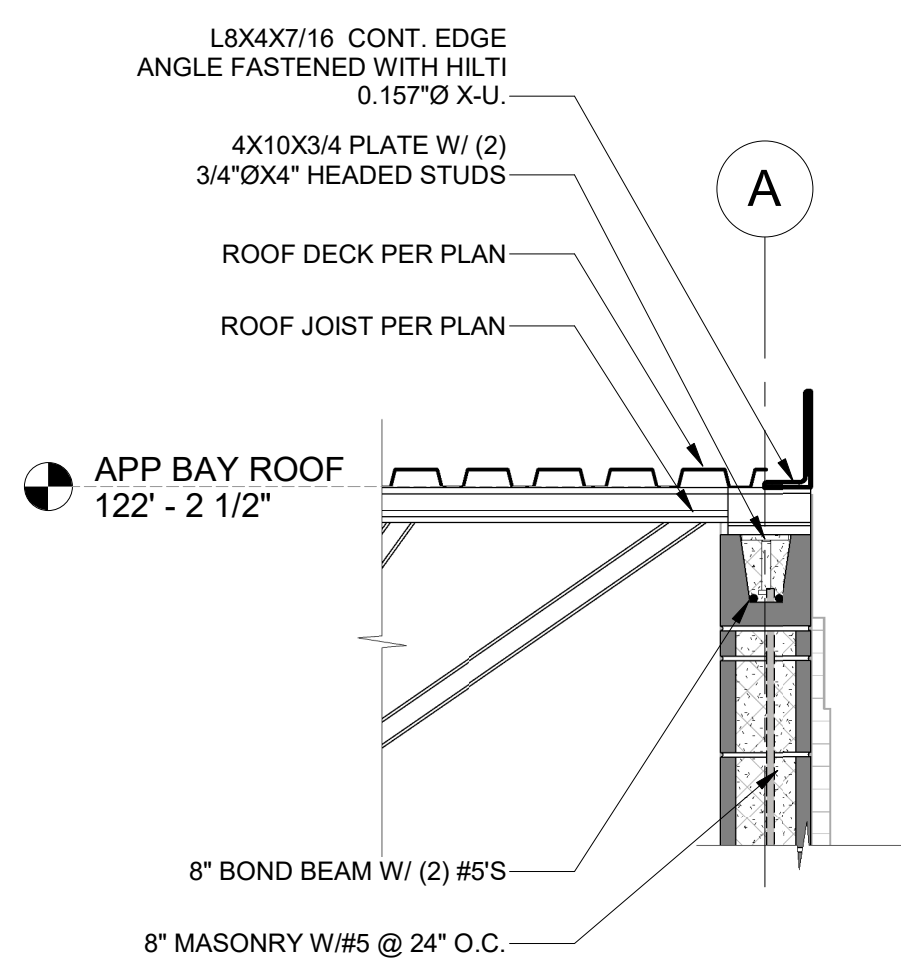
ROOF SECTIONS

S-304

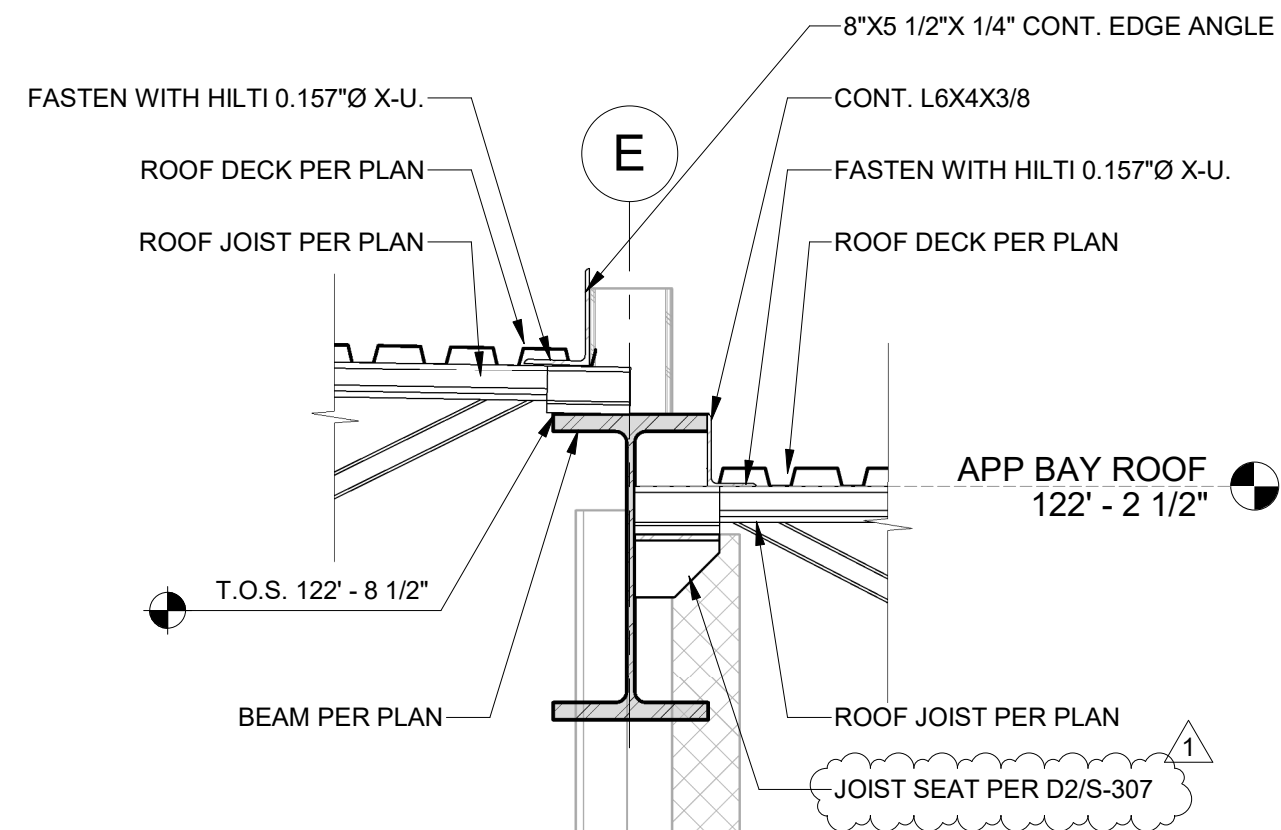
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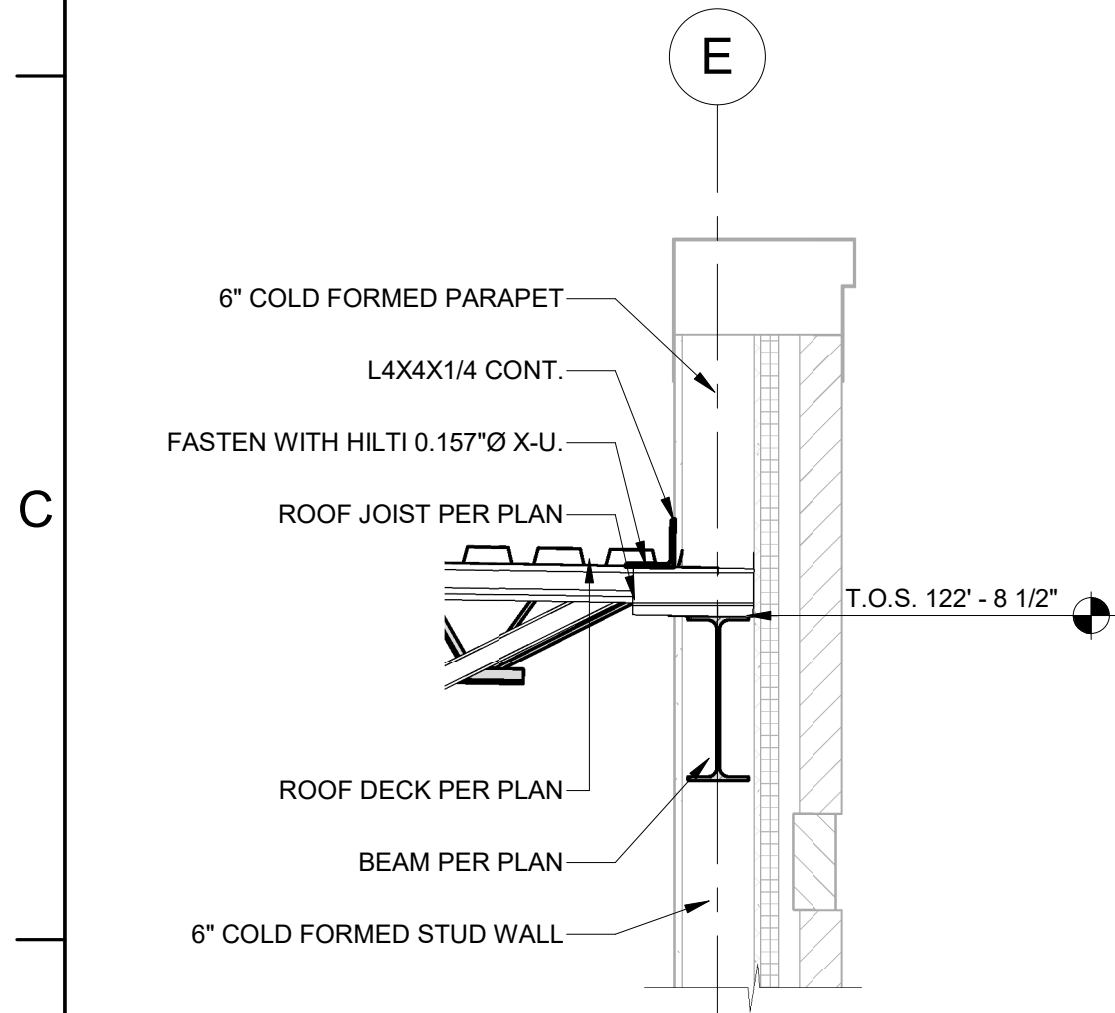
D1 APP BAY ROOF EDGE CONDITION
3/4" = 1'-0"



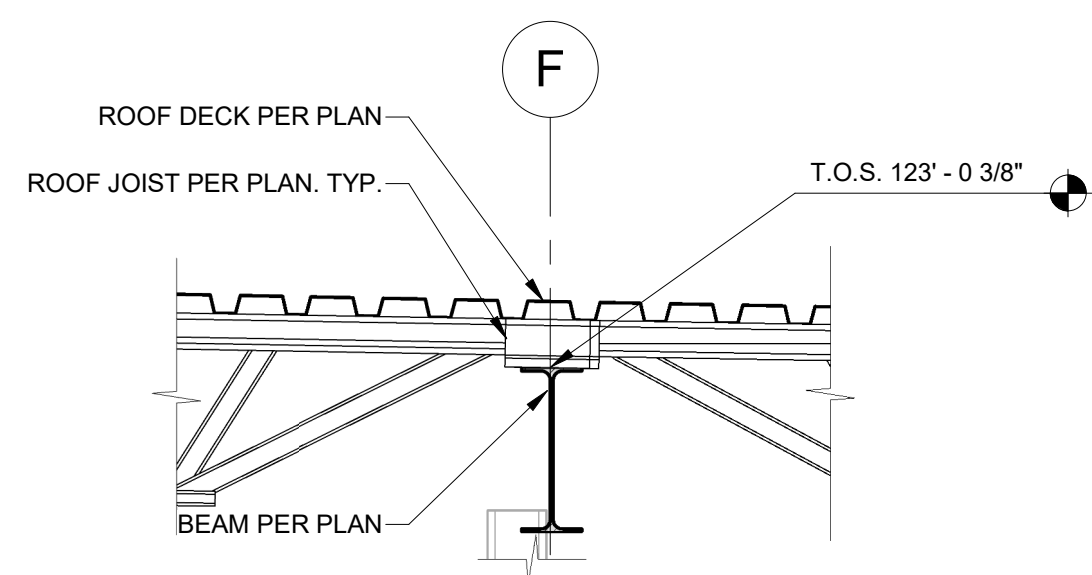
D4 APP BAY ROOF JOIST PERP. TO MASONRY
3/4" = 1'-0"



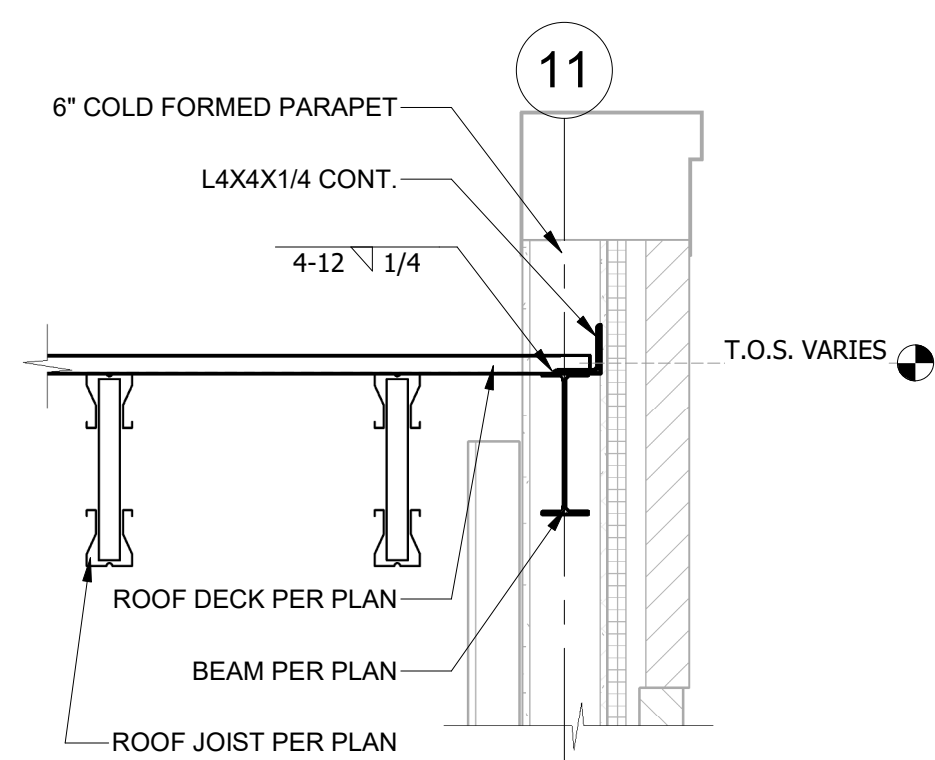
D6 APP BAY ROOF SOUTH BEARING LINE
3/4" = 1'-0"



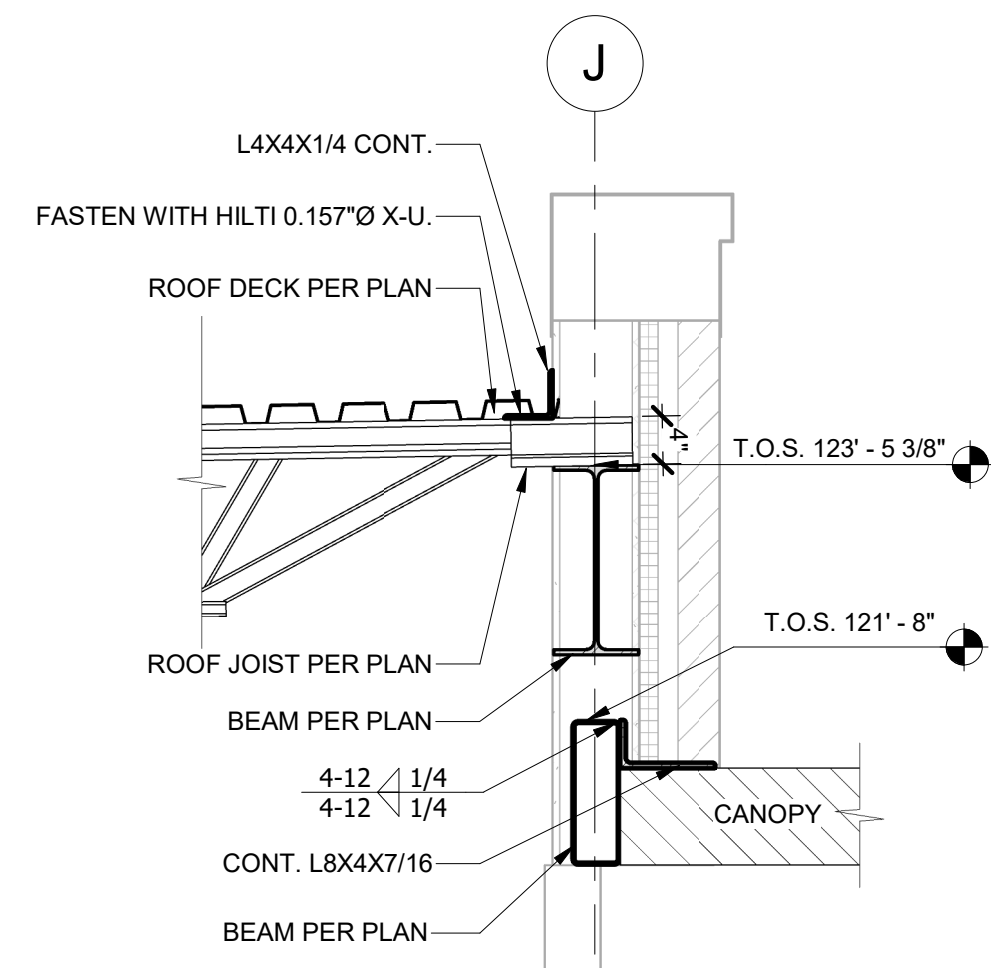
B1 ROOF FRAMING PERP. NOT AT APP BAY NORTH
3/4" = 1'-0"



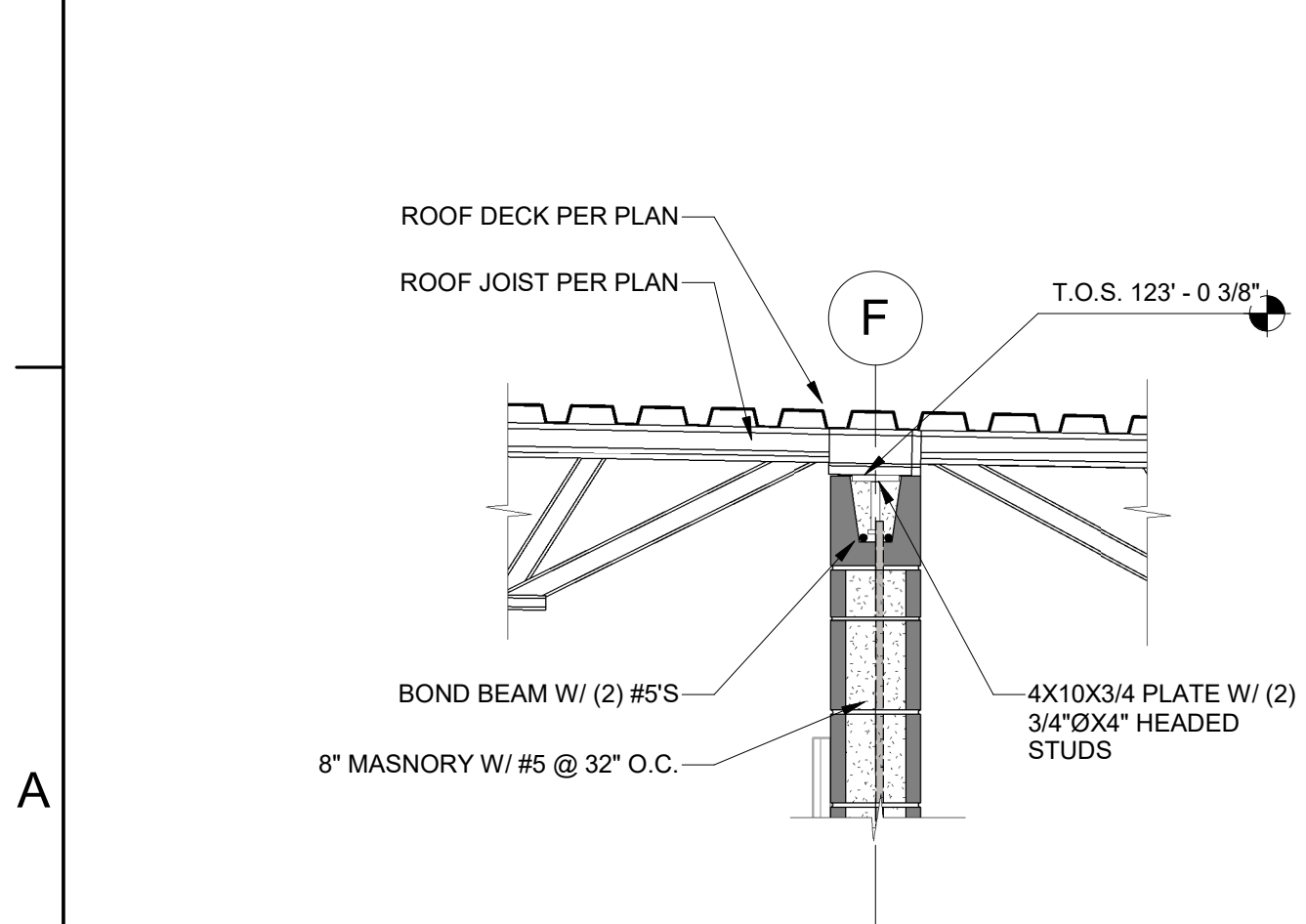
B2 ROOF INTERIOR BEAM BEARING LINE
3/4" = 1'-0"



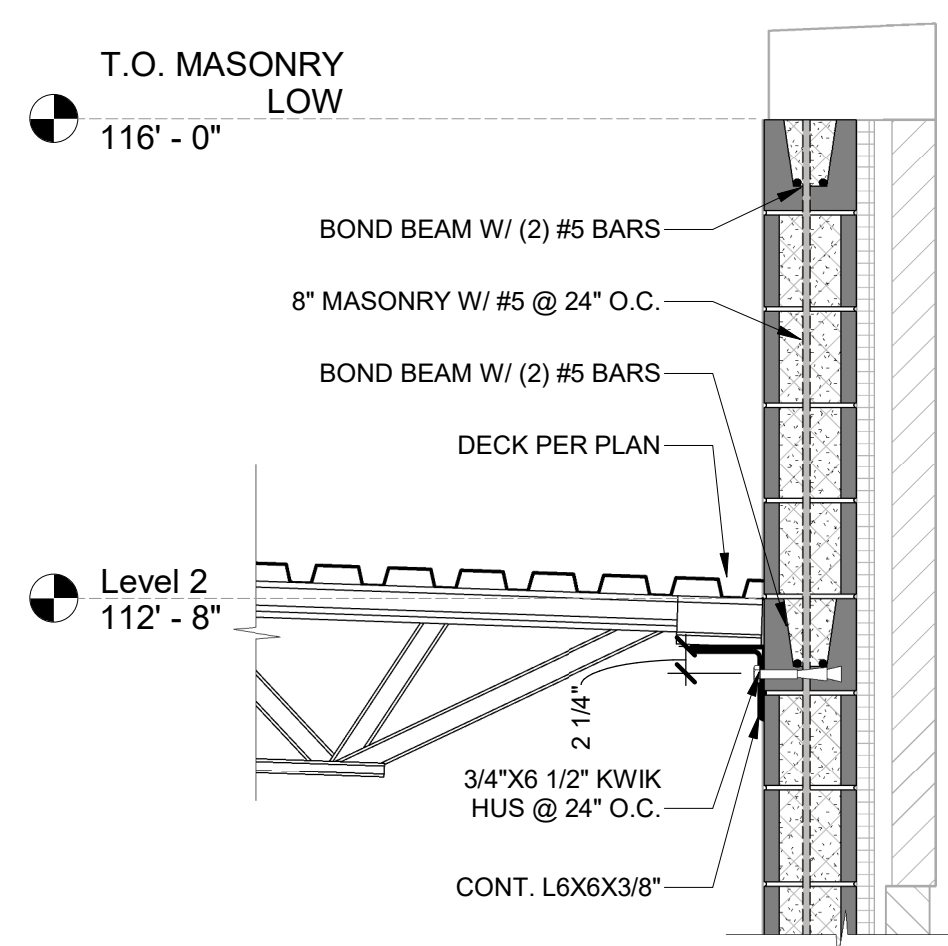
B4 ROOF FRAMING PARALLEL
3/4" = 1'-0"



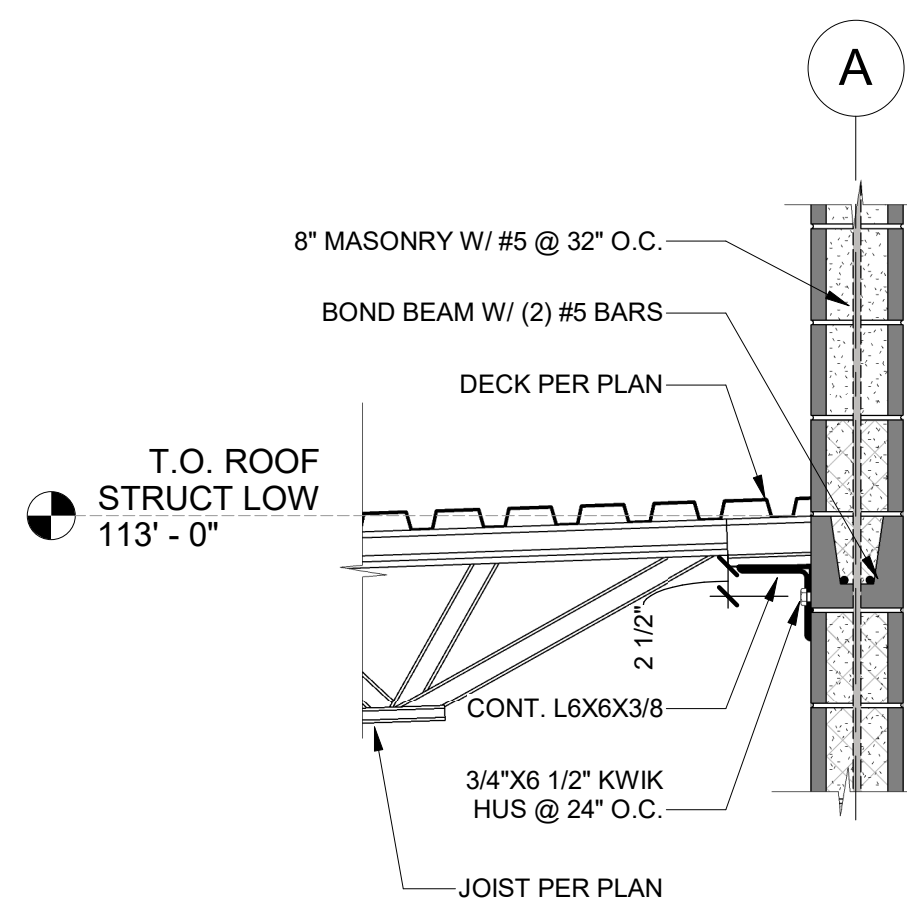
B6 ROOF FRAMING PERP. SOUTH SIDE
3/4" = 1'-0"



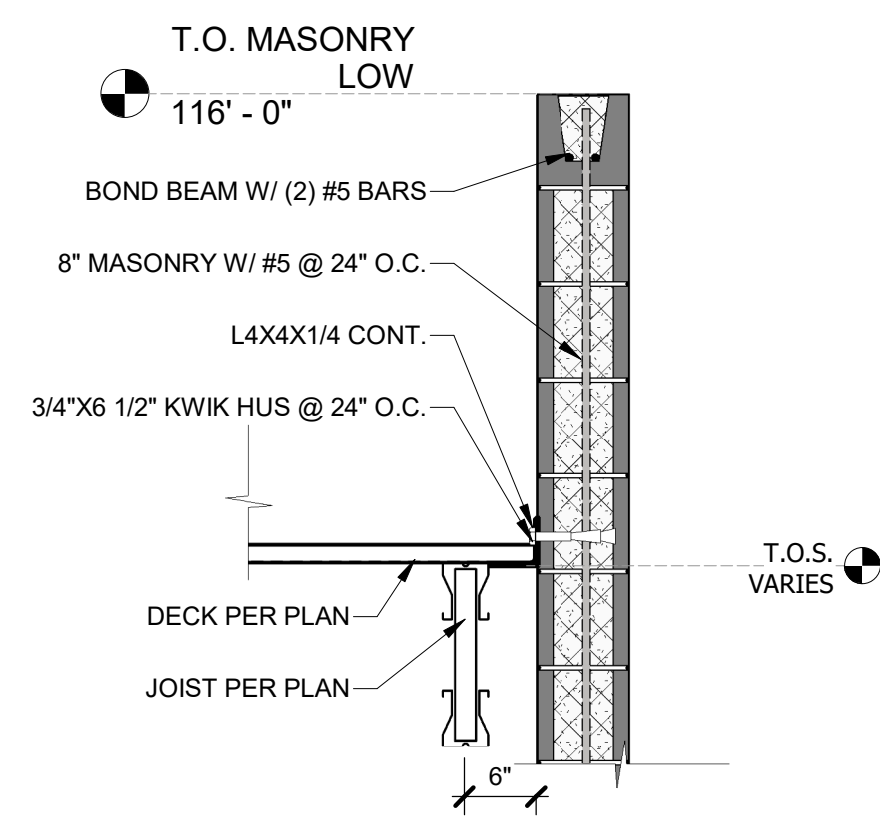
A1 ROOF FRAMING BEARING ON INT. MASONRY WALL
3/4" = 1'-0"



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



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



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



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

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11.14.2022

PROJECT NO: 18225R21001

DATE: 11.16.2022

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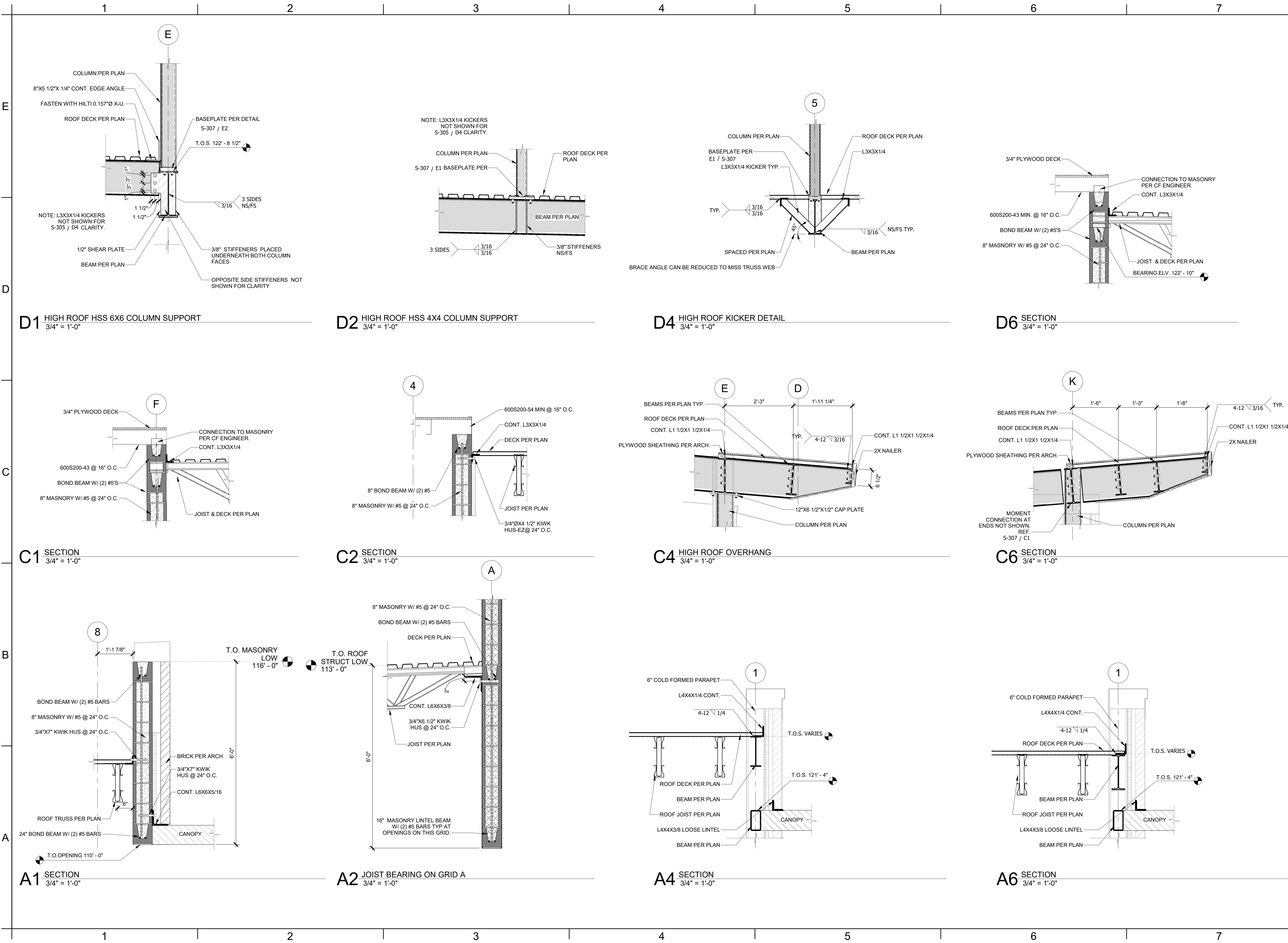
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ROOF SECTIONS

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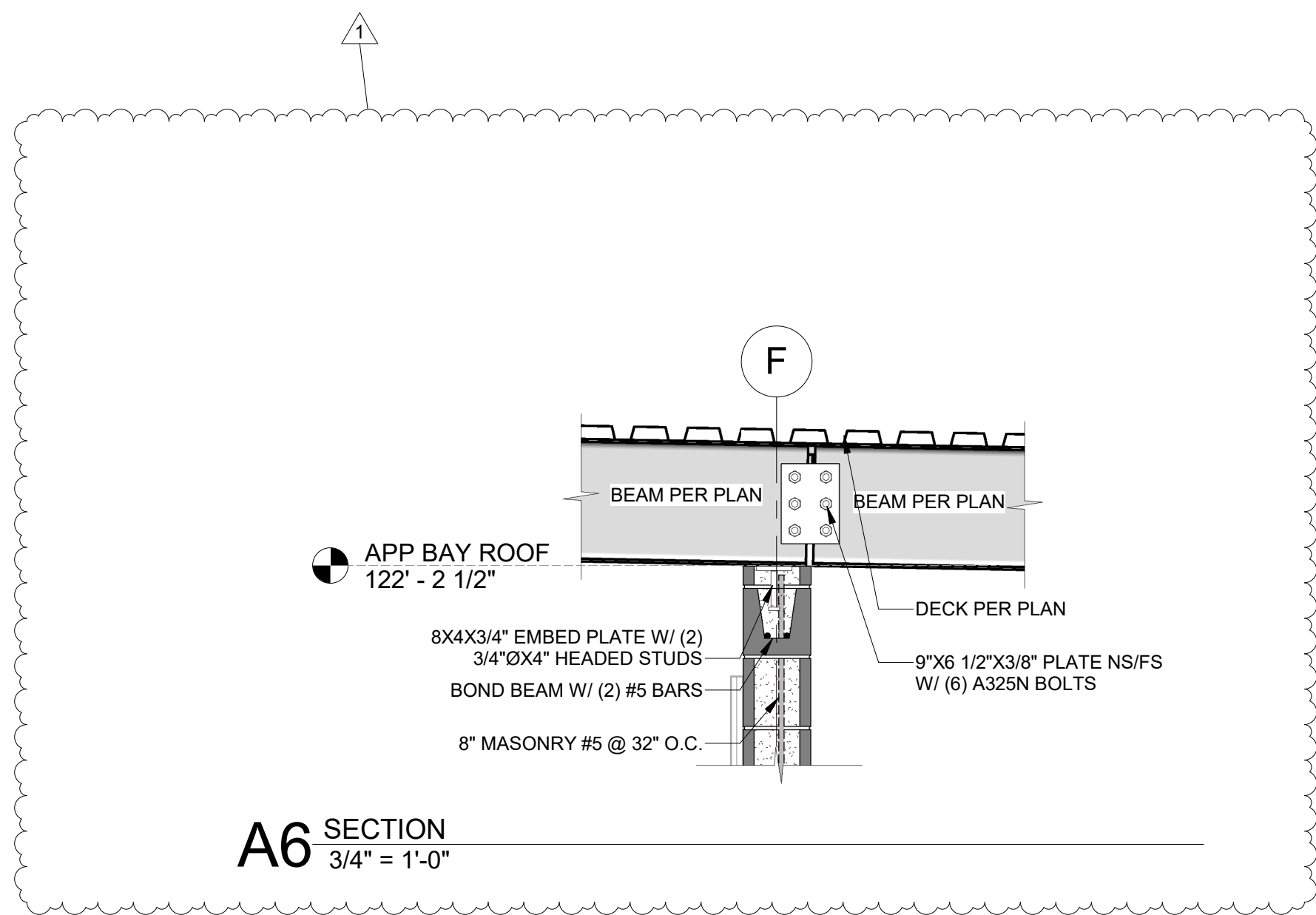
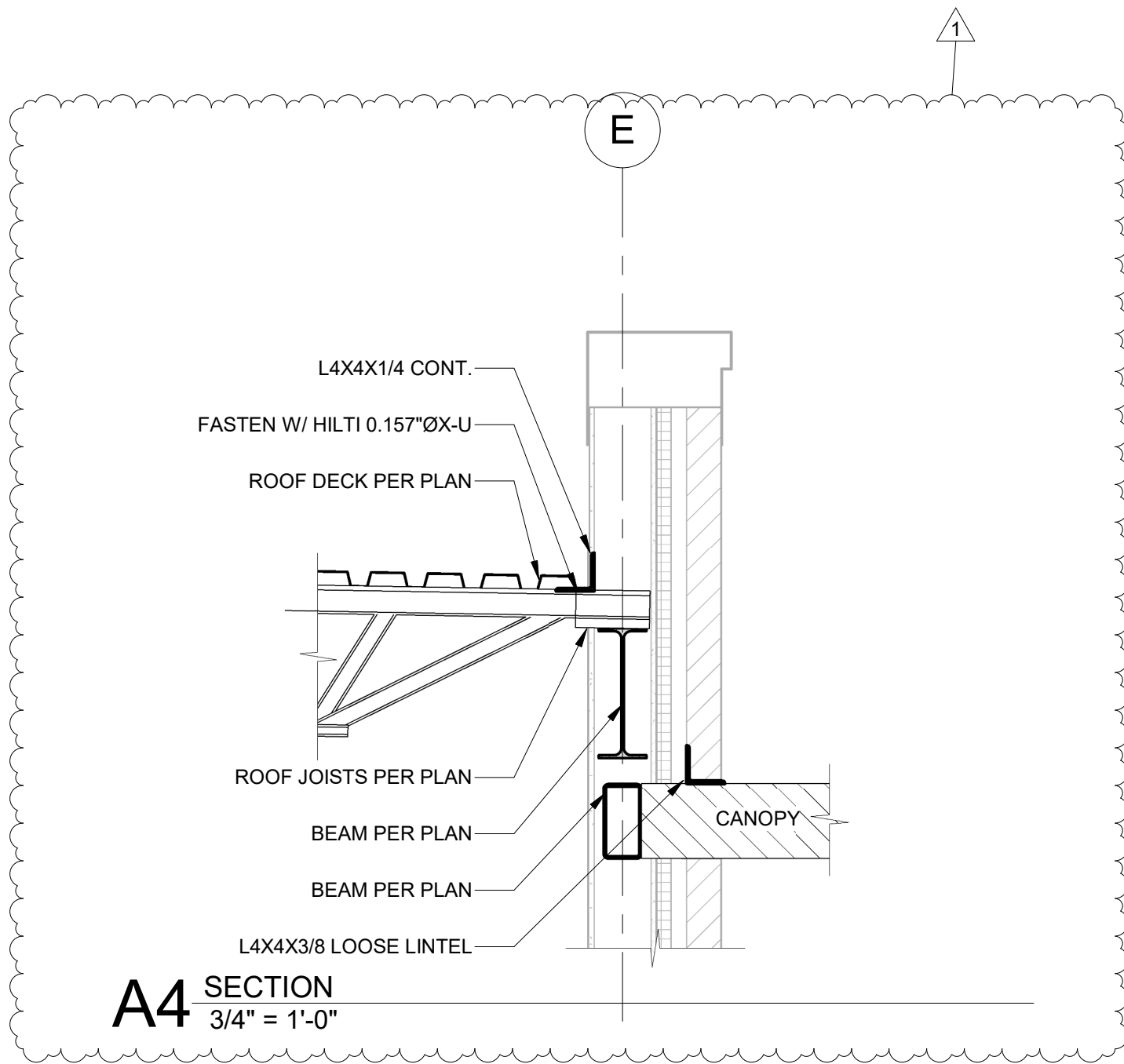
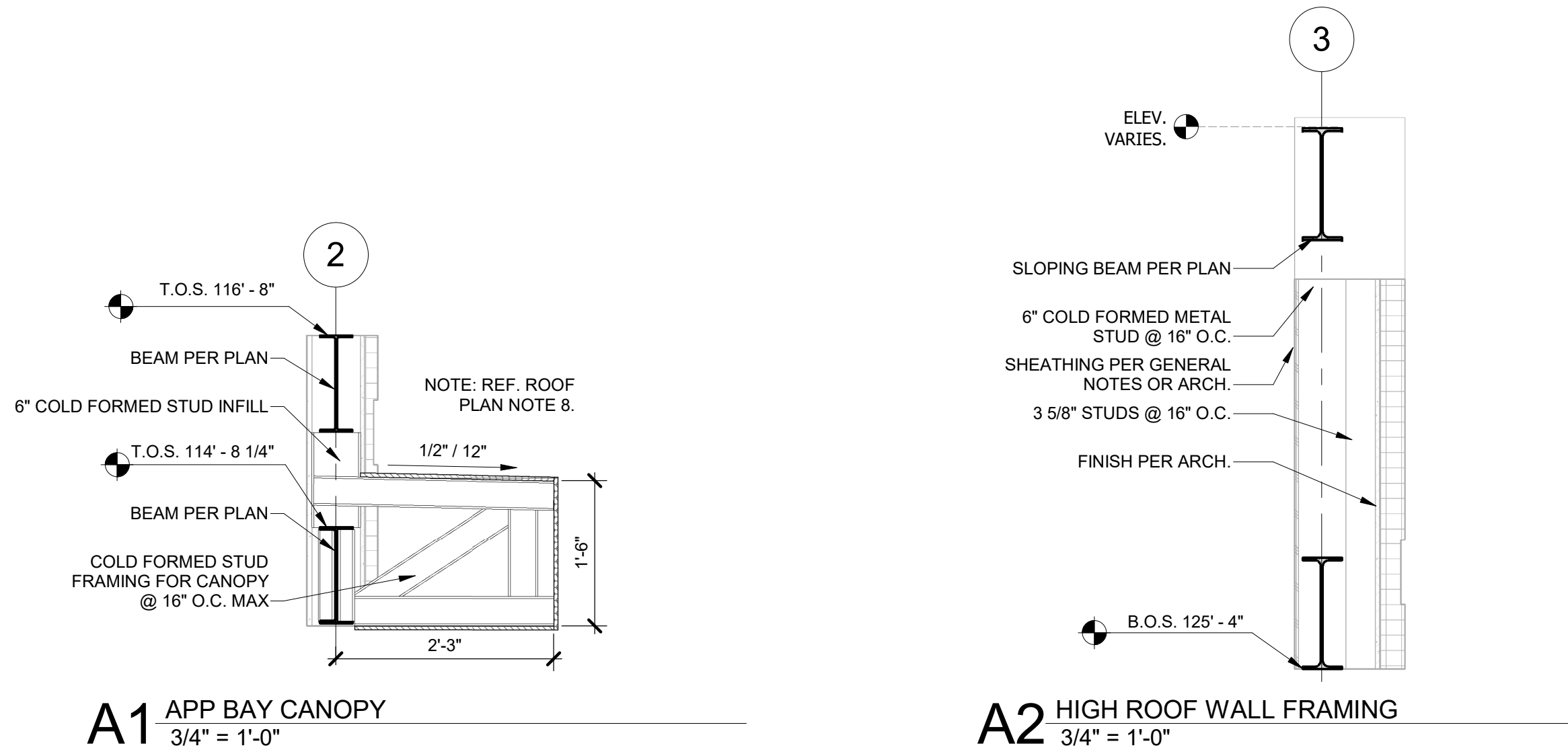
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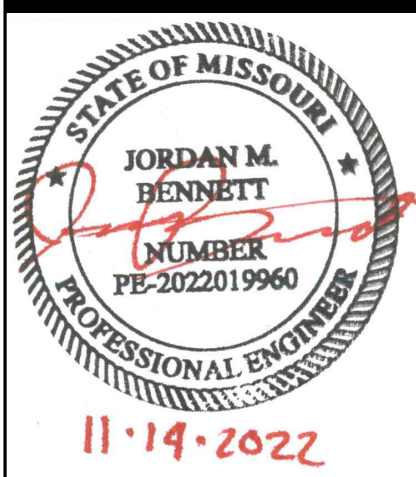
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#	Description	Date
1	ASR 01	11/16/2022



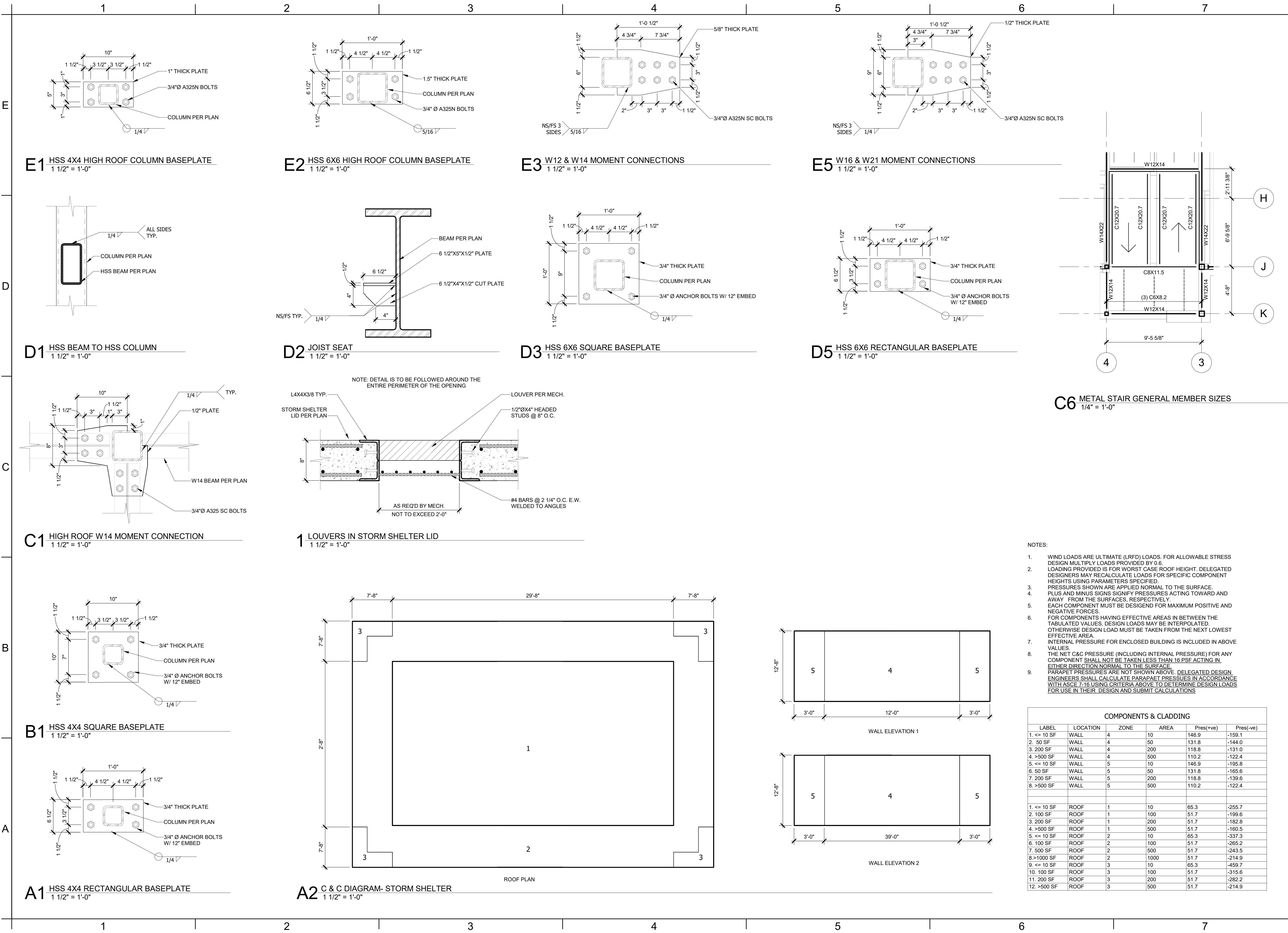
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ROOF SECTIONS

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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	

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

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

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MISC. DETAILS

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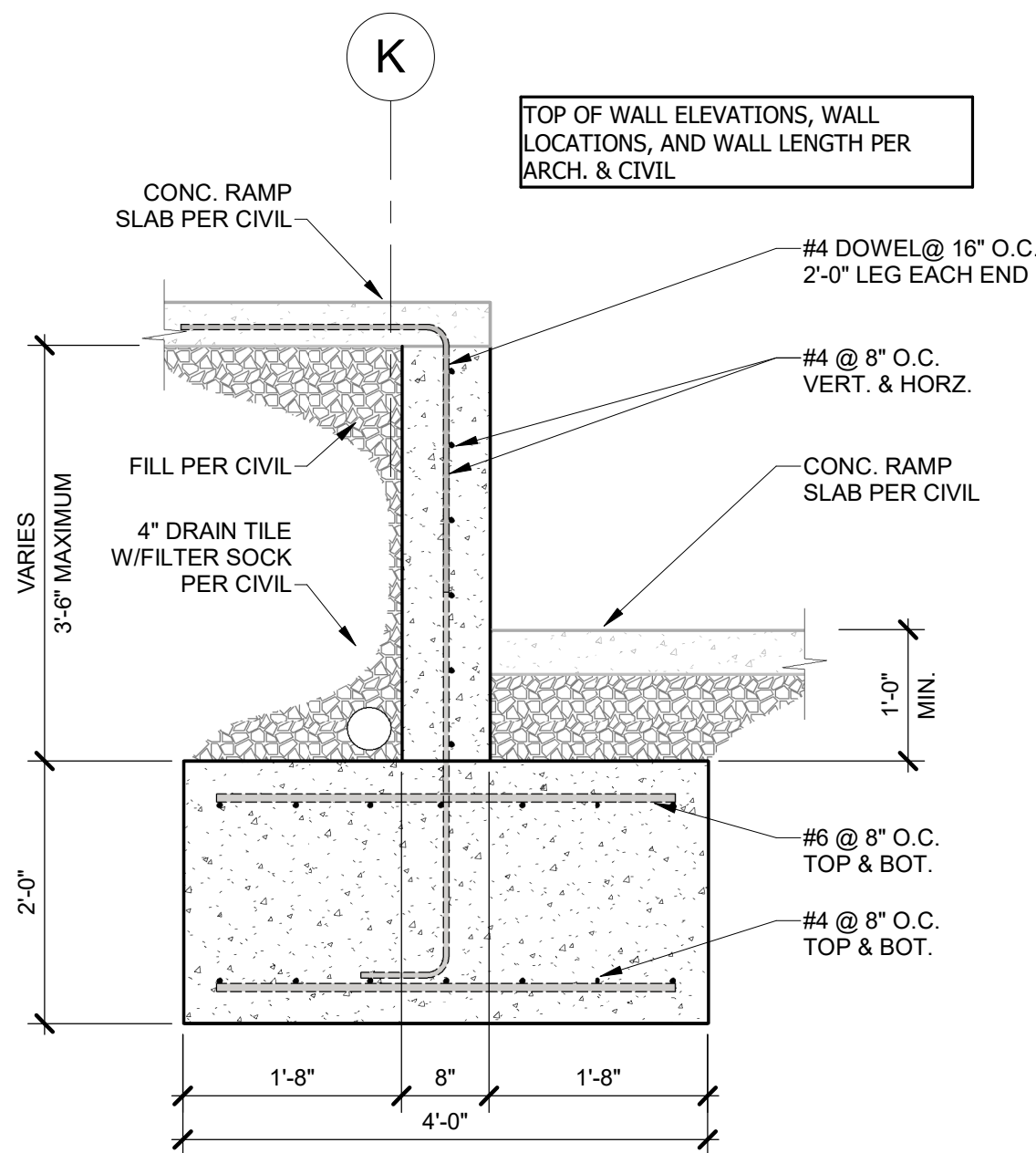
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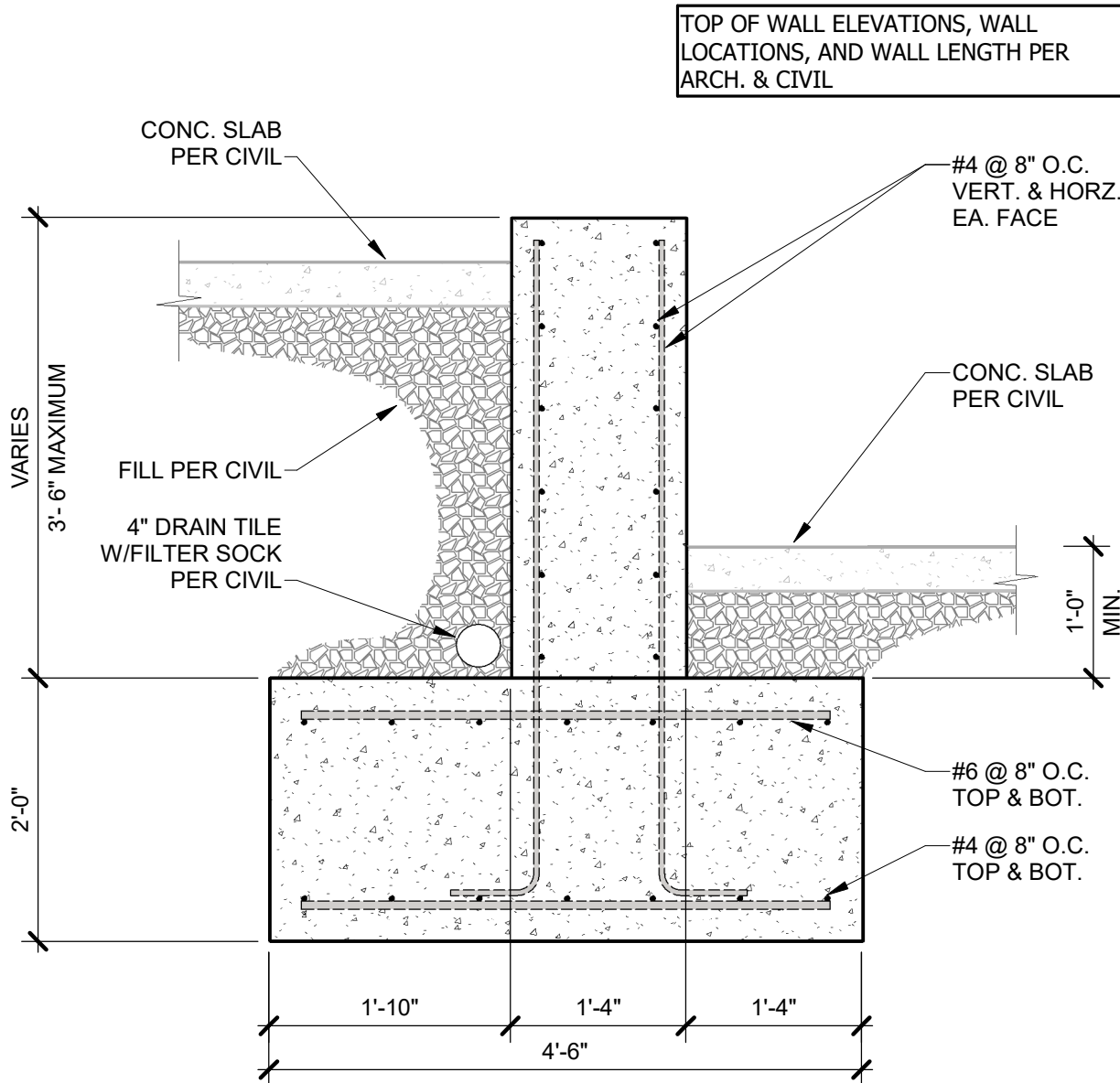
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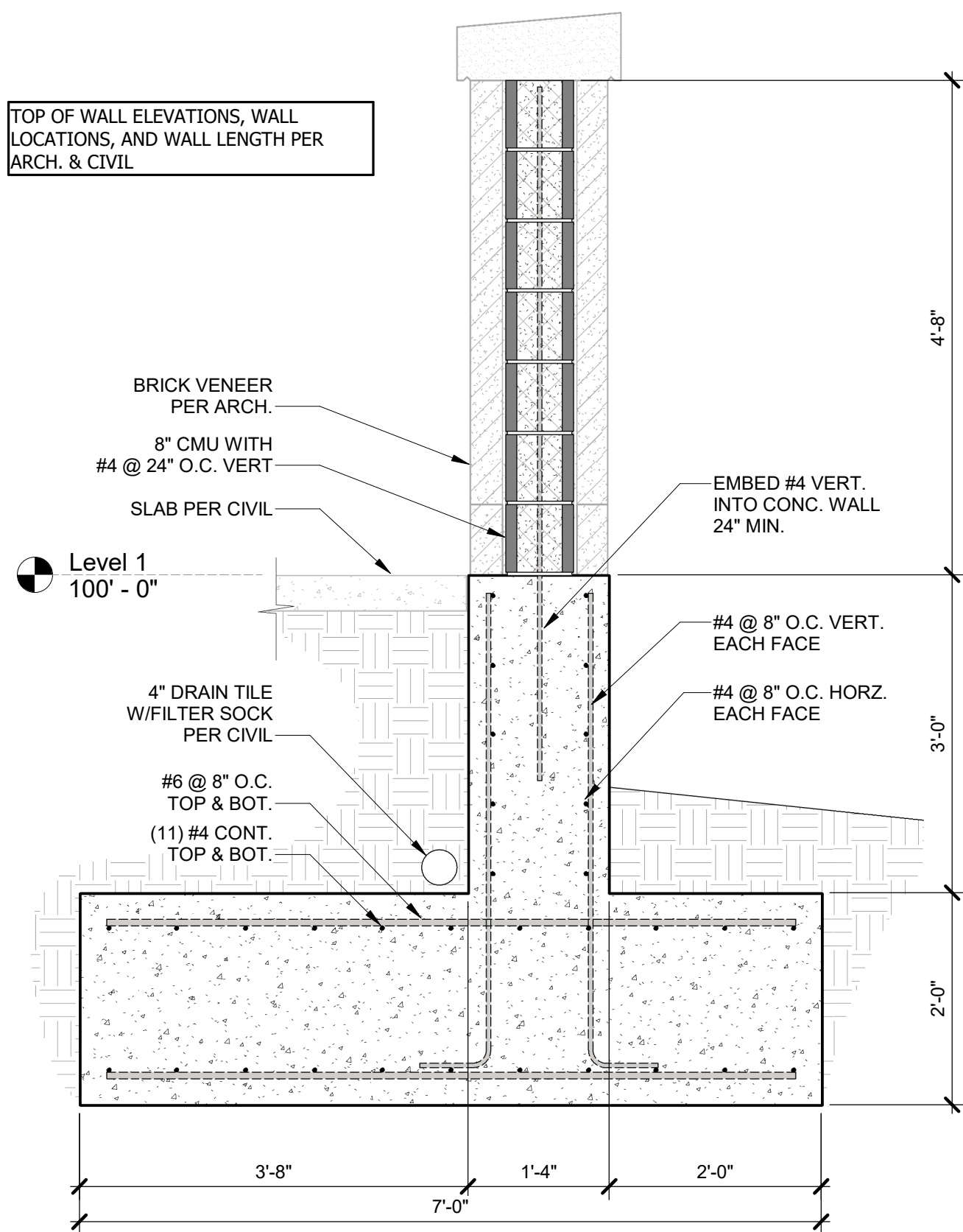
A2 RETAINING WALL BETWEEN RAMPS
3/4" = 1'-0"



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



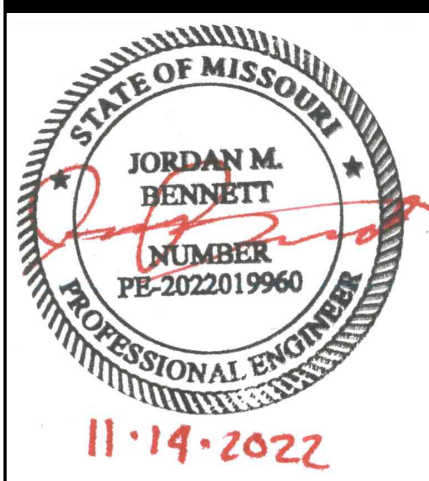
A6 RETAINING WALL SECTION @ PATIO
3/4" = 1'-0"



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**RETAINING WALL
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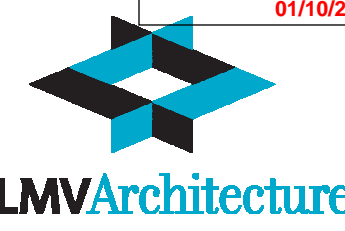
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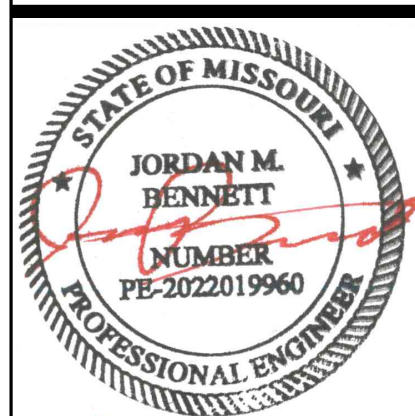
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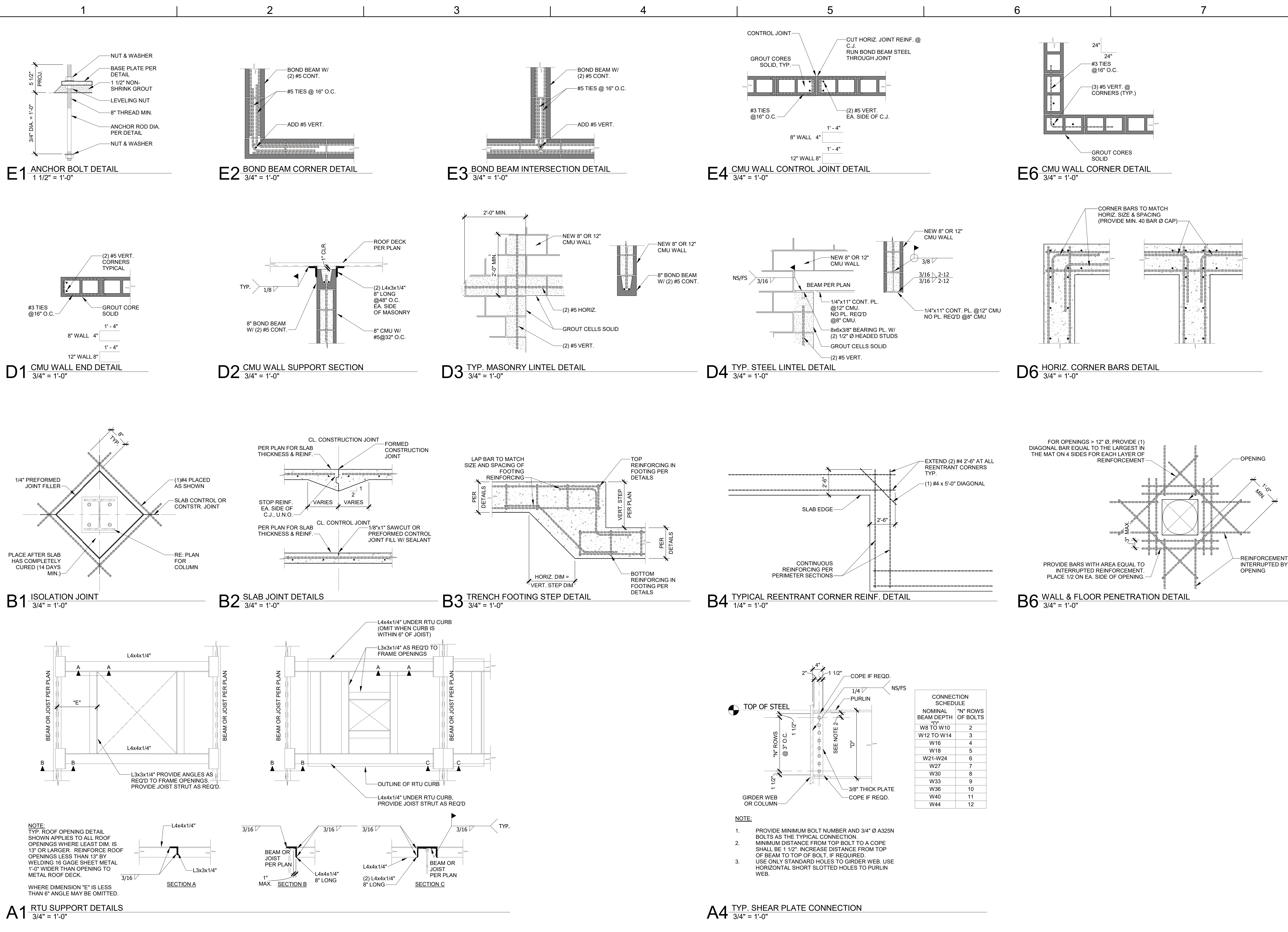
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TYPICAL DETAILS

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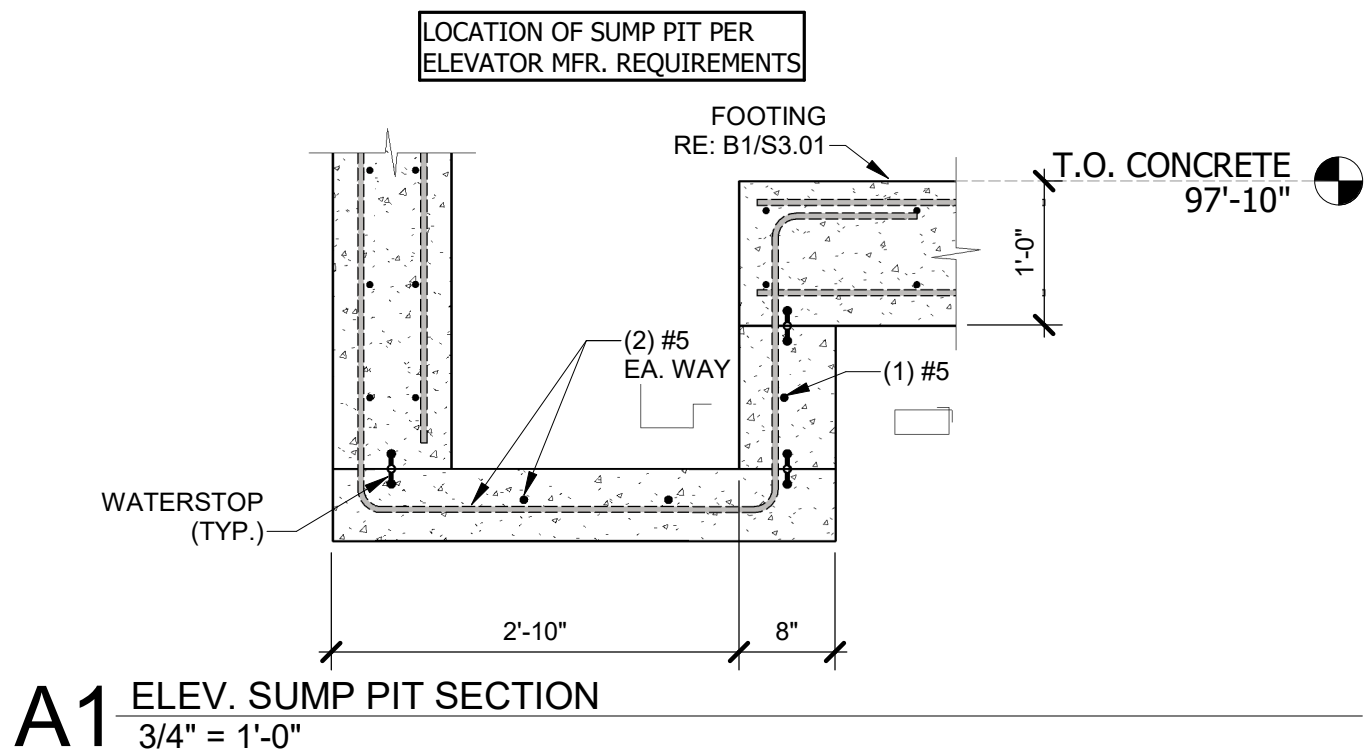
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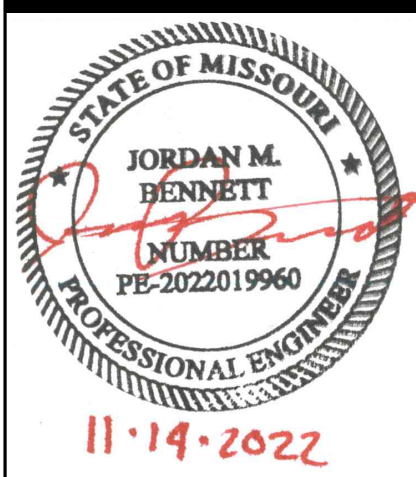
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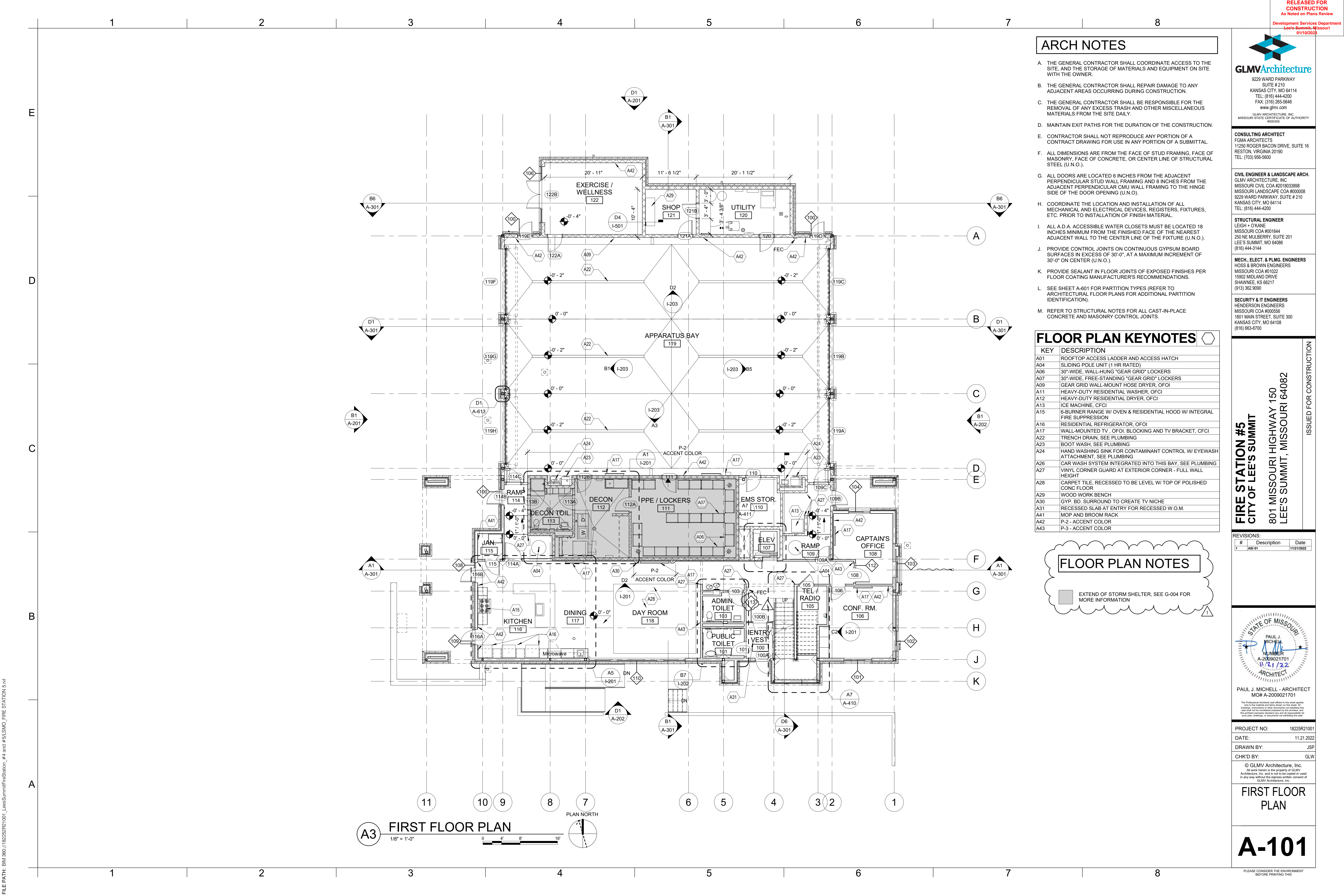


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TYPICAL DETAILS

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ARCH NOTES

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

FLOOR PLAN KEYNOTES

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

FLOOR PLAN NOTES

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

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

ISSUED FOR CONSTRUCTION

PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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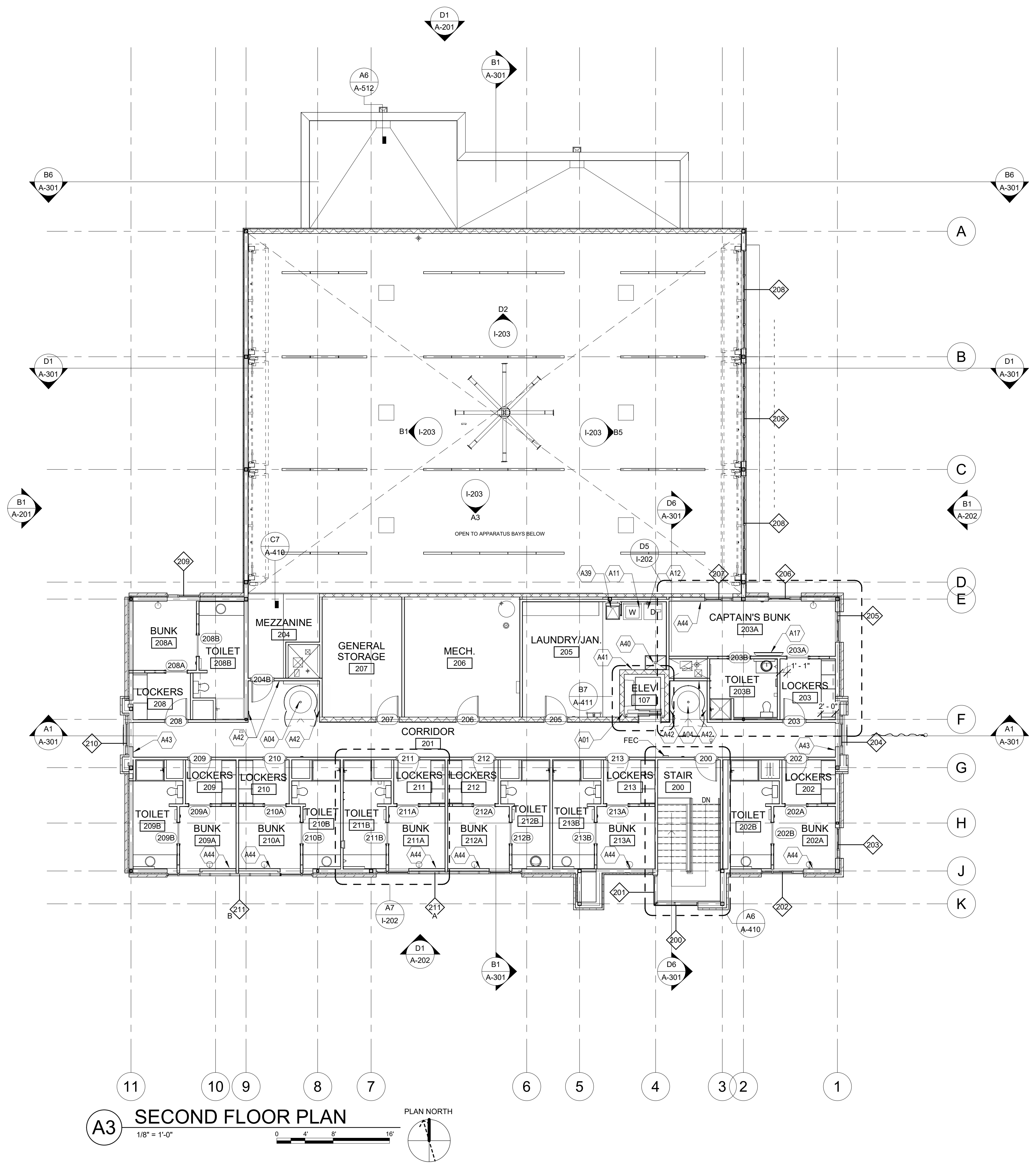
FIRST FLOOR PLAN

A-101

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E
D
C
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A



ARCH NOTES

- A. THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE WITH THE OWNER.
- B. THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY ADJACENT AREAS OCCURRING DURING CONSTRUCTION.
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- D. MAINTAIN EXIT PATHS FOR THE DURATION OF THE CONSTRUCTION.
- E. CONTRACTOR SHALL NOT REPRODUCE ANY PORTION OF A CONTRACT DRAWING FOR USE IN ANY PORTION OF A SUBMITTAL.
- F. ALL DIMENSIONS ARE FROM THE FACE OF STUD FRAMING, FACE OF MASONRY, FACE OF CONCRETE, OR CENTER LINE OF STRUCTURAL STEEL (U.N.O.).
- G. ALL DOORS ARE LOCATED 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.).
- H. COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- I. ALL A.D.A. ACCESSIBLE WATER CLOSETS MUST BE LOCATED 18 INCHES MINIMUM FROM THE FINISHED FACE OF THE NEAREST ADJACENT WALL TO THE CENTER LINE OF THE FIXTURE (U.N.O.).
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- K. PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- L. SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION IDENTIFICATION).
- M. REFER TO STRUCTURAL NOTES FOR ALL CAST-IN-PLACE CONCRETE AND MASONRY CONTROL JOINTS.

FLOOR PLAN KEYNOTES.

KEY	DESCRIPTION
A01	ROOFTOP ACCESS LADDER AND ACCESS HATCH
A04	SLIDING POLE UNIT (1 HR RATED)
A11	HEAVY-DUTY RESIDENTIAL WASHER, OFCI
A12	HEAVY-DUTY RESIDENTIAL DRYER, OFCI
A17	WALL-MOUNTED TV, OFCI. 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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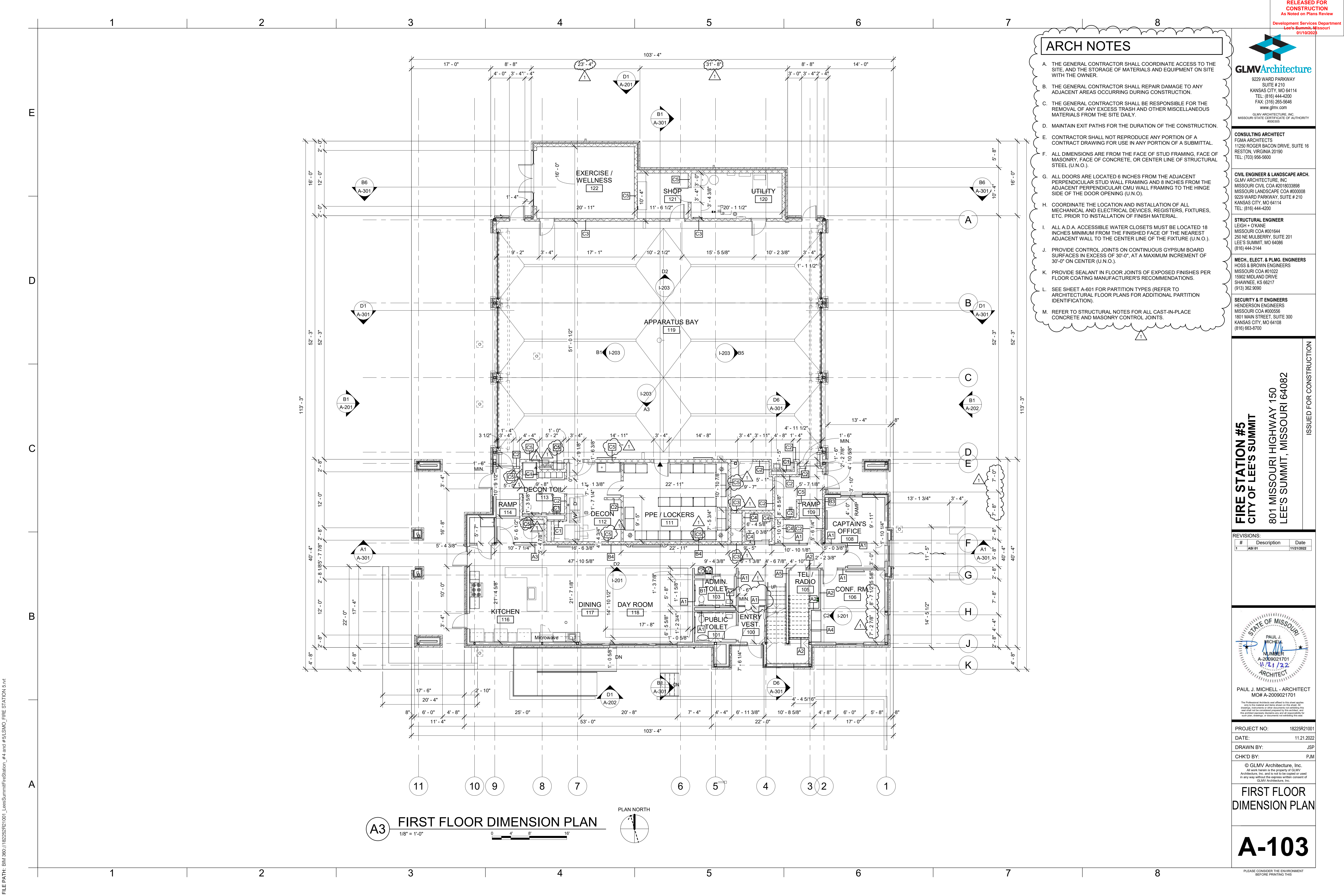
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SECOND FLOOR PLAN

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801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

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REVISIONS:

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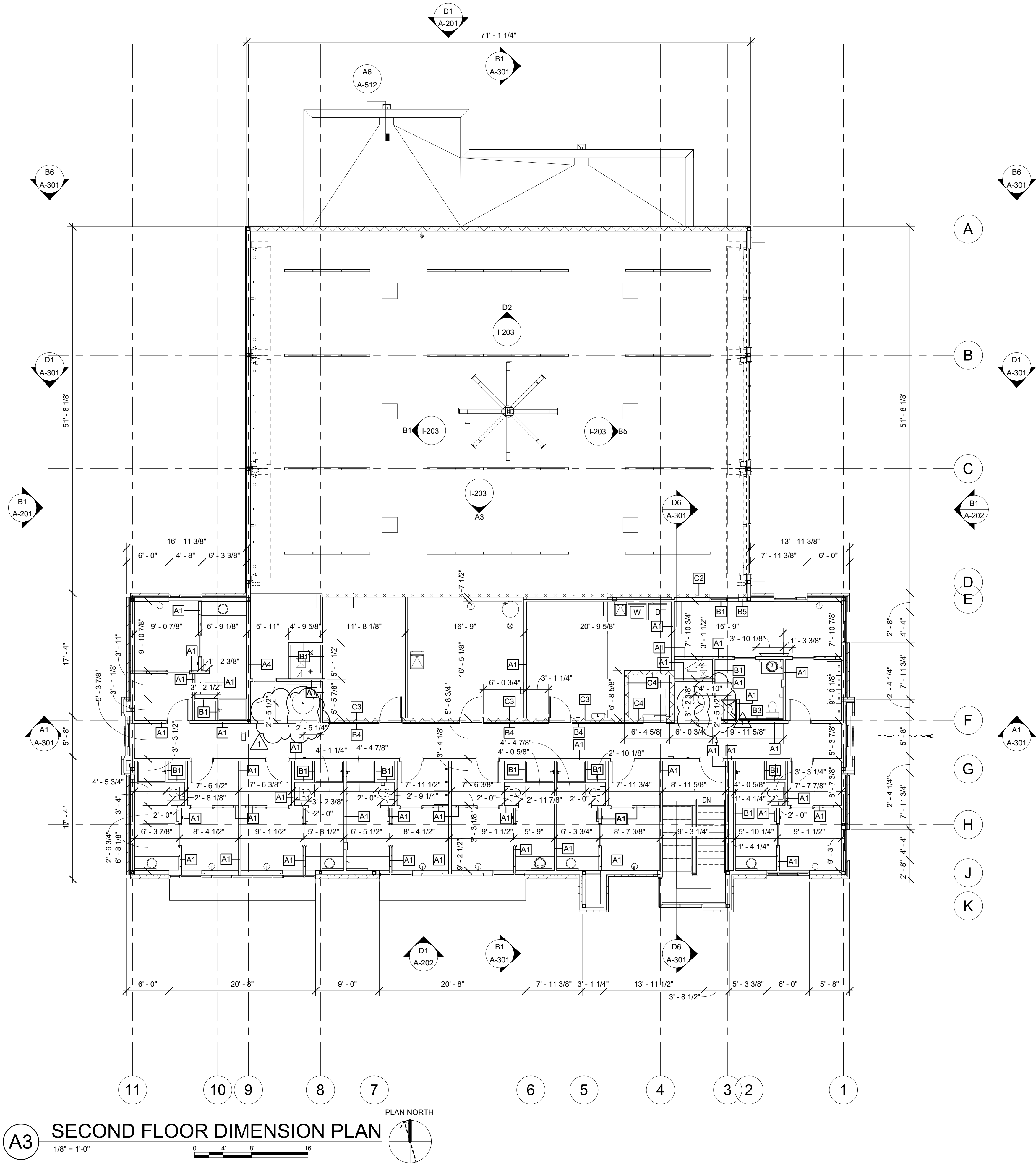
FIRST FLOOR
DIMENSION PLAN

A-103

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E
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C
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SECOND FLOOR
DIMENSION PLAN

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**SECOND FLOOR
REFLECTED
CEILING PLAN**

A-112

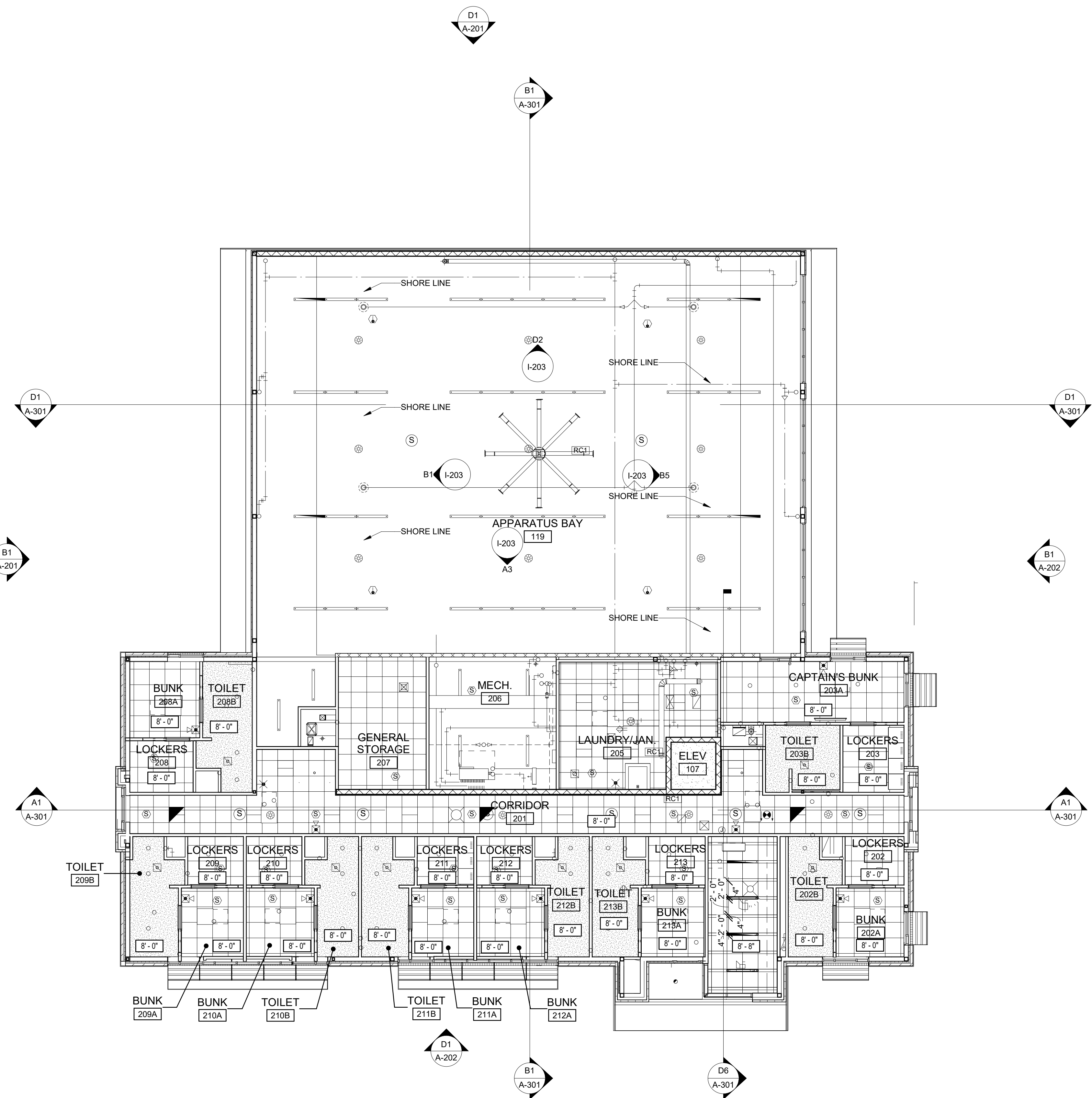
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CEILING PLAN LEGEND

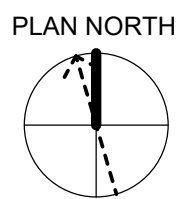
	PLASTER, GYPSUM OR PORTLAND CEMENT		LIGHT FIXTURE, RECESSED FLUORESCENT A (2x4)
	TILE, ACOUSTICAL CEILING		LIGHT FIXTURE, RECESSED FLUORESCENT B (1x4)
	SHEET METAL		LIGHT FIXTURE, RECESSED FLUORESCENT C (1x8)
	CEILING ELEVATION TAG		LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT A (2x4)
	PENDANT HEAD SPRINKLERS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

SHEET NOTES

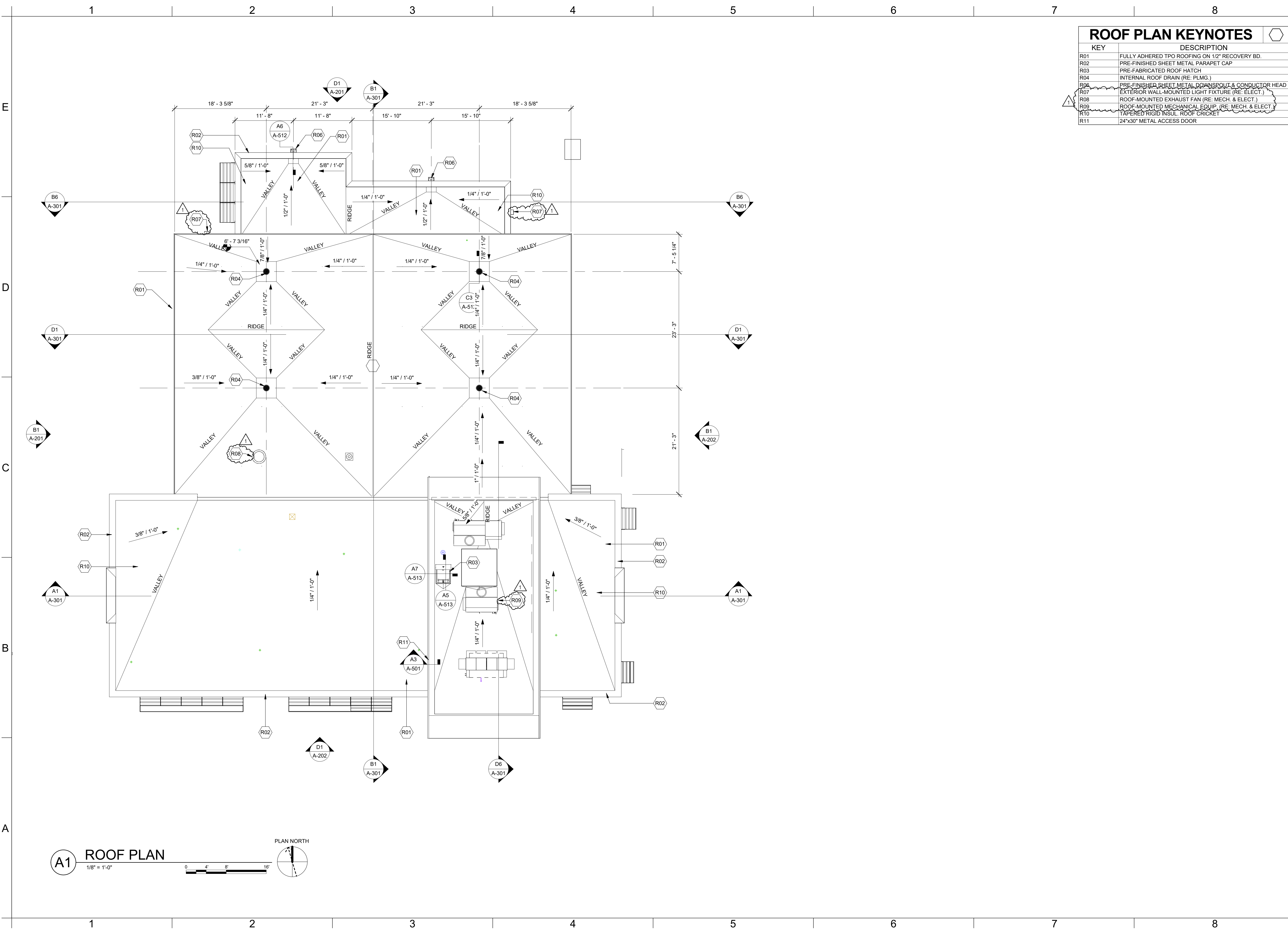
- SEE ROOM FINISH SCHEDULE SHEET I-601 FOR CEILING TYPES AND MATERIALS IN EACH ROOM/AREA.
- PERIMETER TRACK FOR ALL ACOUSTICAL CEILING GRIDS SHALL BE INSTALLED IN ACCORDANCE WITH IBC AND CISCA GUIDELINES.
- ALL DIMENSIONS ARE FROM FACE OF FINISH MATERIAL.
- CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
- CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. SEE INTERIOR ELEVATIONS FOR SOFFIT HEIGHTS ABOVE CASEWORK, U.N.O.
- SEE ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING, AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH CEILING LAYOUT SHOWN ON THIS SHEET.
- LIGHT FIXTURES, HVAC DIFFUSERS, AND SPECIAL SYSTEMS ARE SHOWN FOR POSITIONING WITHIN FINISH CEILING LAYOUT. COORDINATE WITH ELECTRICAL, MECHANICAL, AND SPECIAL SYSTEMS DRAWINGS FOR FIXTURE TYPES, LOCATIONS, SIZES, AND SCHEDULES.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS INDICATED.
- CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, GENERAL ALARM, AND MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED, U.N.O.
- INSTALL ACCESS PANELS IN GYP BD CEILINGS AT DUCT DAMPER CONTROLS, DUCT MOUNTED SMOKE DETECTORS, MANUAL DUCT CONTROLS, ETC.
- LIGHT FIXTURES LOCATED AT STAIRS SHALL OCCUR AT EACH FLOOR AND INTERMEDIATE LANDINGS.
- LOCATE SPRINKLER HEADS IN THE CENTER ZONE OF THE CEILING TILE. ALIGN CORRIDOR SPRINKLER HEADS IN THE SAME LINE PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION.



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




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



ROOF PLAN KEYNOTES	
KEY	DESCRIPTION
R01	FULLY ADHERED TPO ROOFING ON 1/2" RECOVERY BD.
R02	PRE-FINISHED SHEET METAL PARAPET CAP
R03	PRE-FABRICATED ROOF HATCH
R04	INTERNAL ROOF DRAIN (RE: PLMG.)
R05	PRE-FINISHED SHEET METAL DOWNSPOUT & CONDUCTOR HEAD
R07	EXTERIOR WALL-MOUNTED LIGHT FIXTURE (RE: ELECT.)
R08	ROOF-MOUNTED EXHAUST FAN (RE: MECH. & ELECT.)
R09	ROOF-MOUNTED MECHANICAL EQUIP. (RE: MECH. & ELECT.)
R10	TAPERED RIGID INSUL. ROOF CRICKET
R11	24"x30" METAL ACCESS DOOR

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DRAWN BY:	JSP
CHK'D BY:	PJM

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ROOF PLAN

A-121

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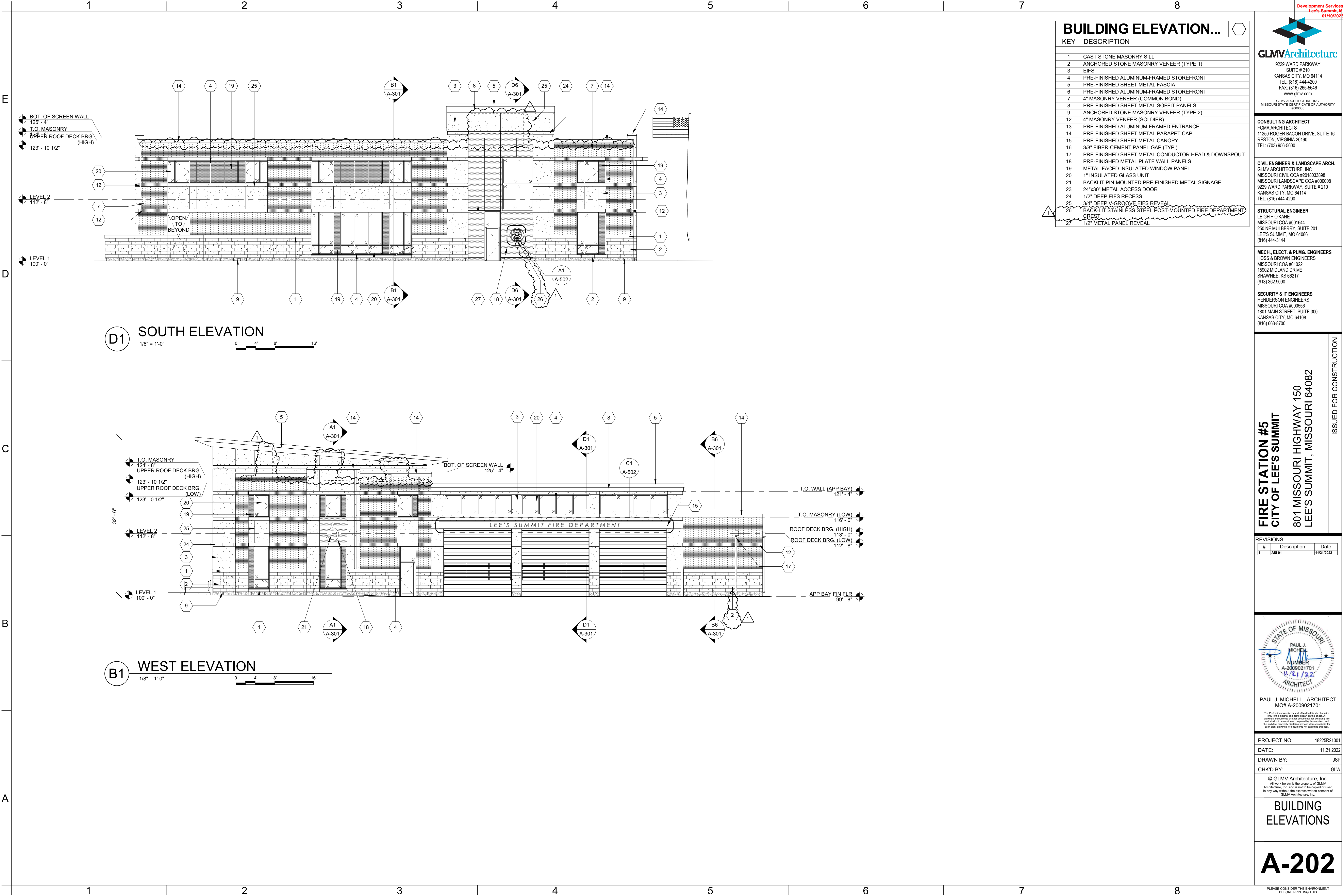
BUILDING ELEVATIONS

A-201

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E
D
C
B
A



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

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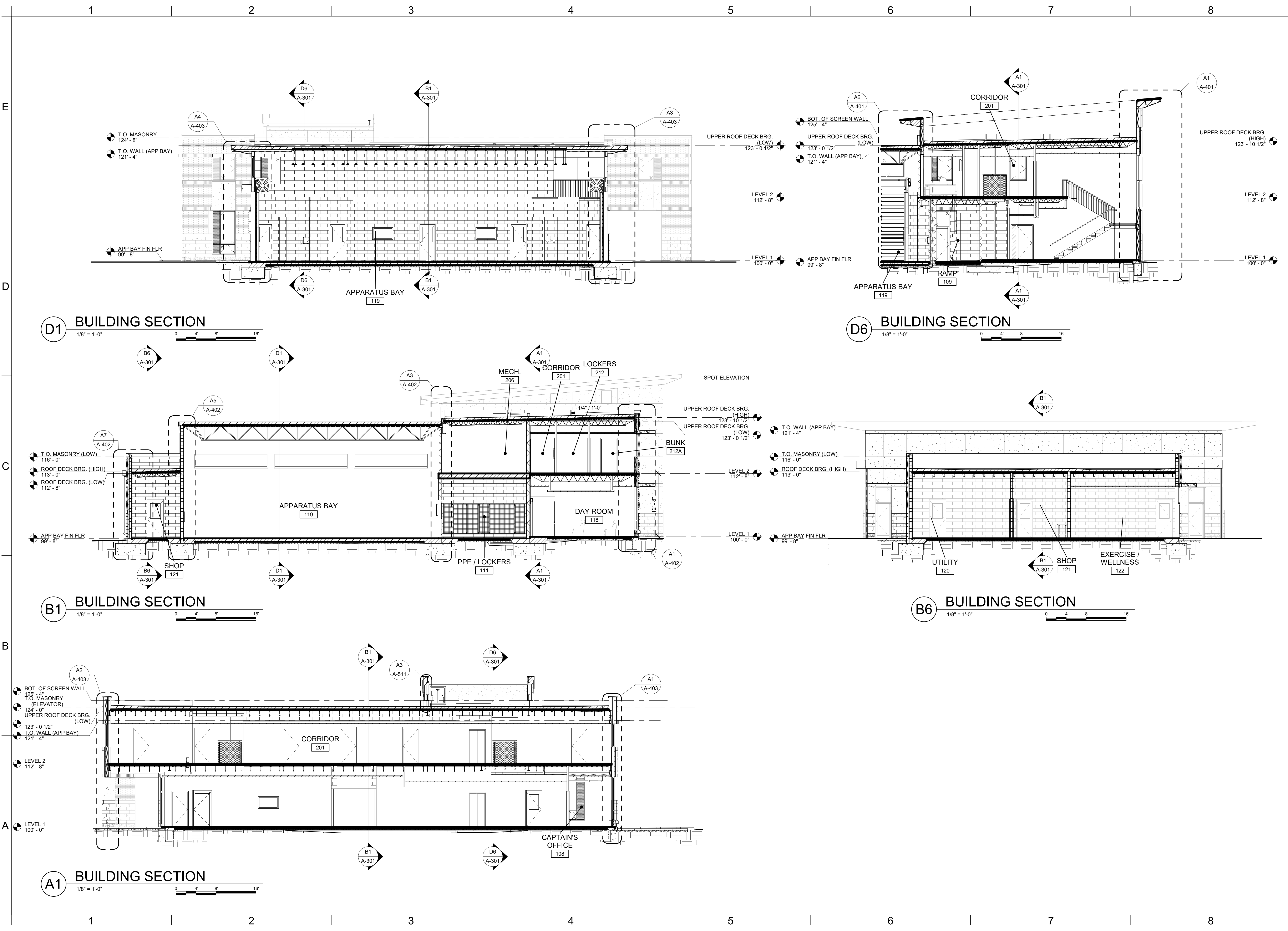
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BUILDING
ELEVATIONS

A-202

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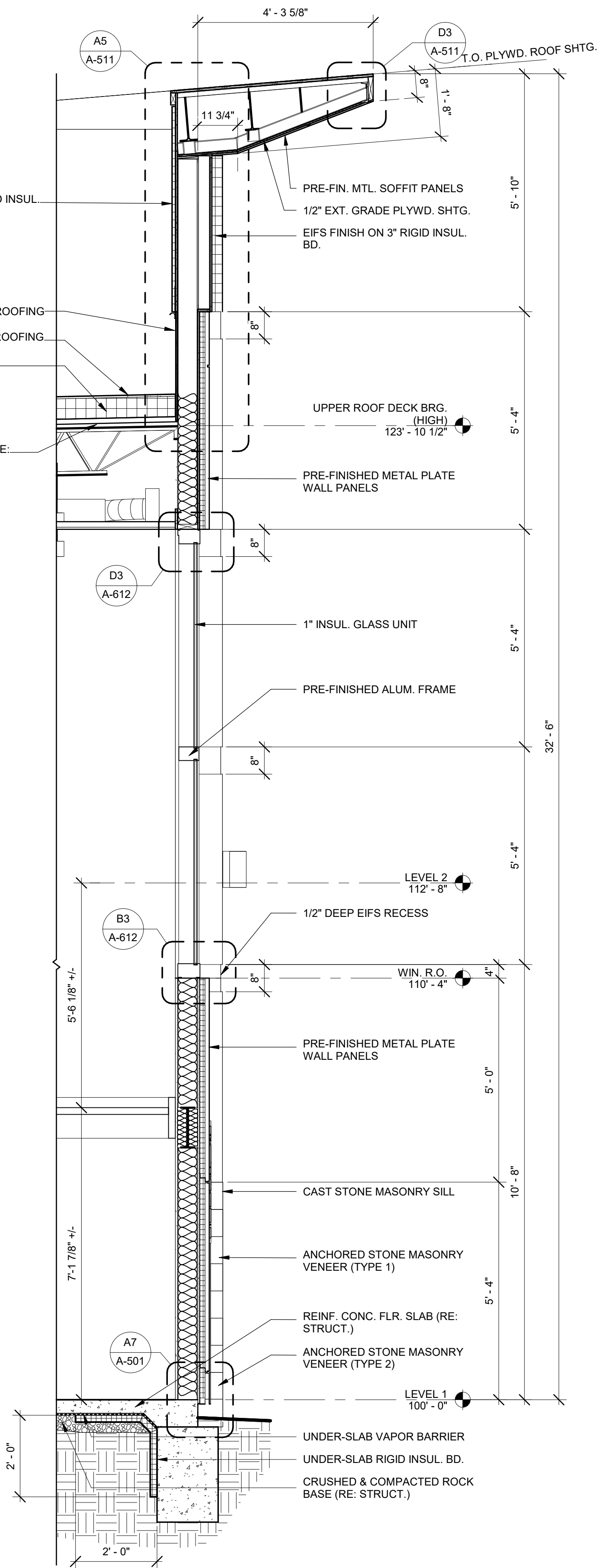
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BUILDING SECTIONS

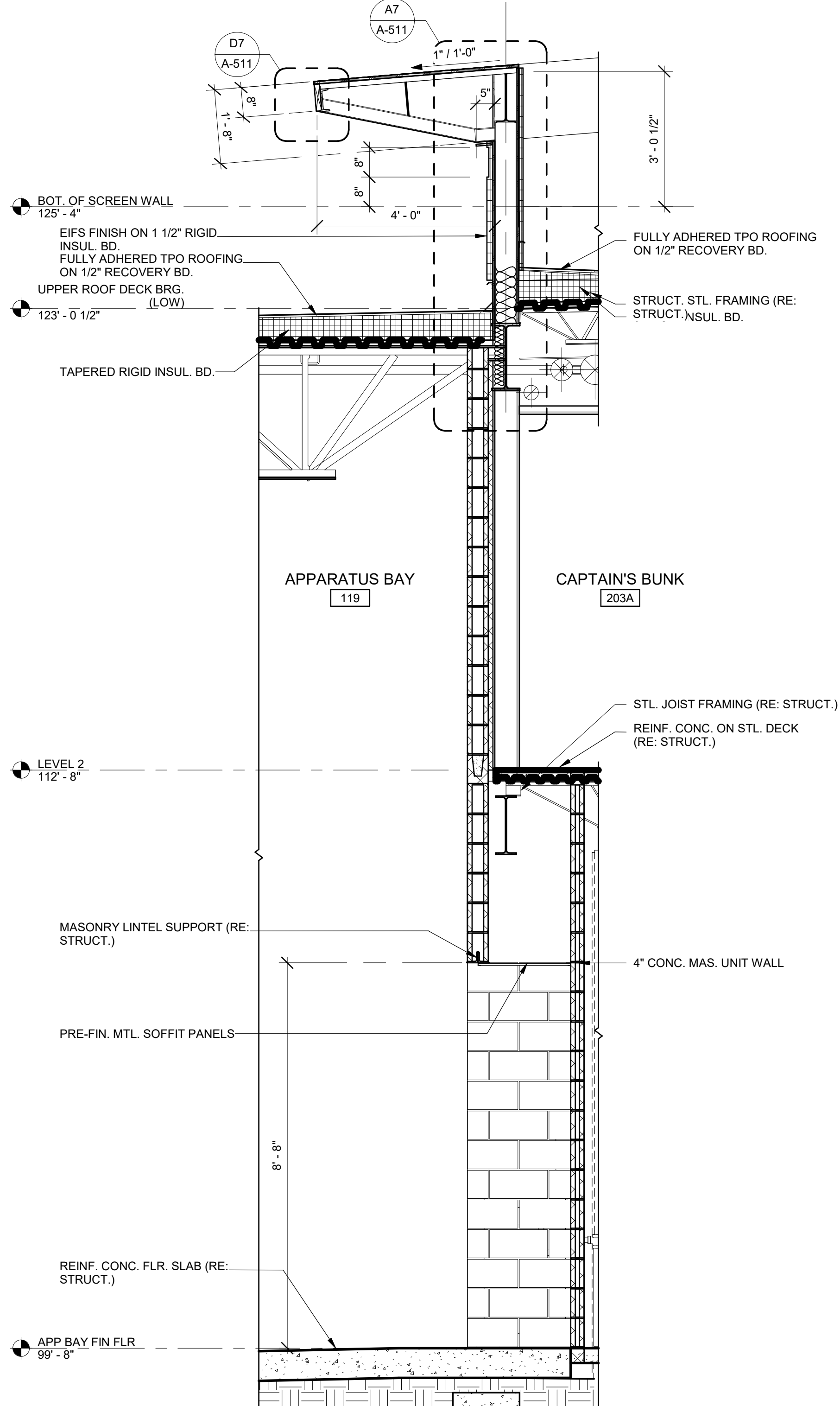
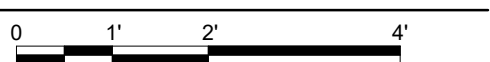
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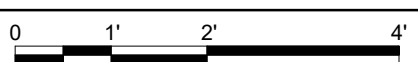
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A1 STAIR SECTION
1/2" = 1'-0"



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



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WALL SECTIONS

A-401

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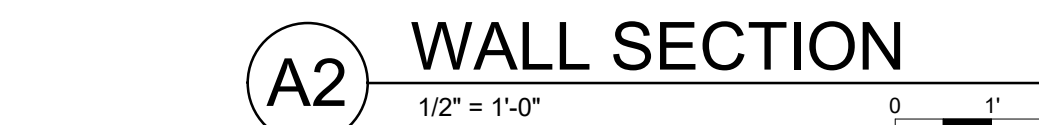
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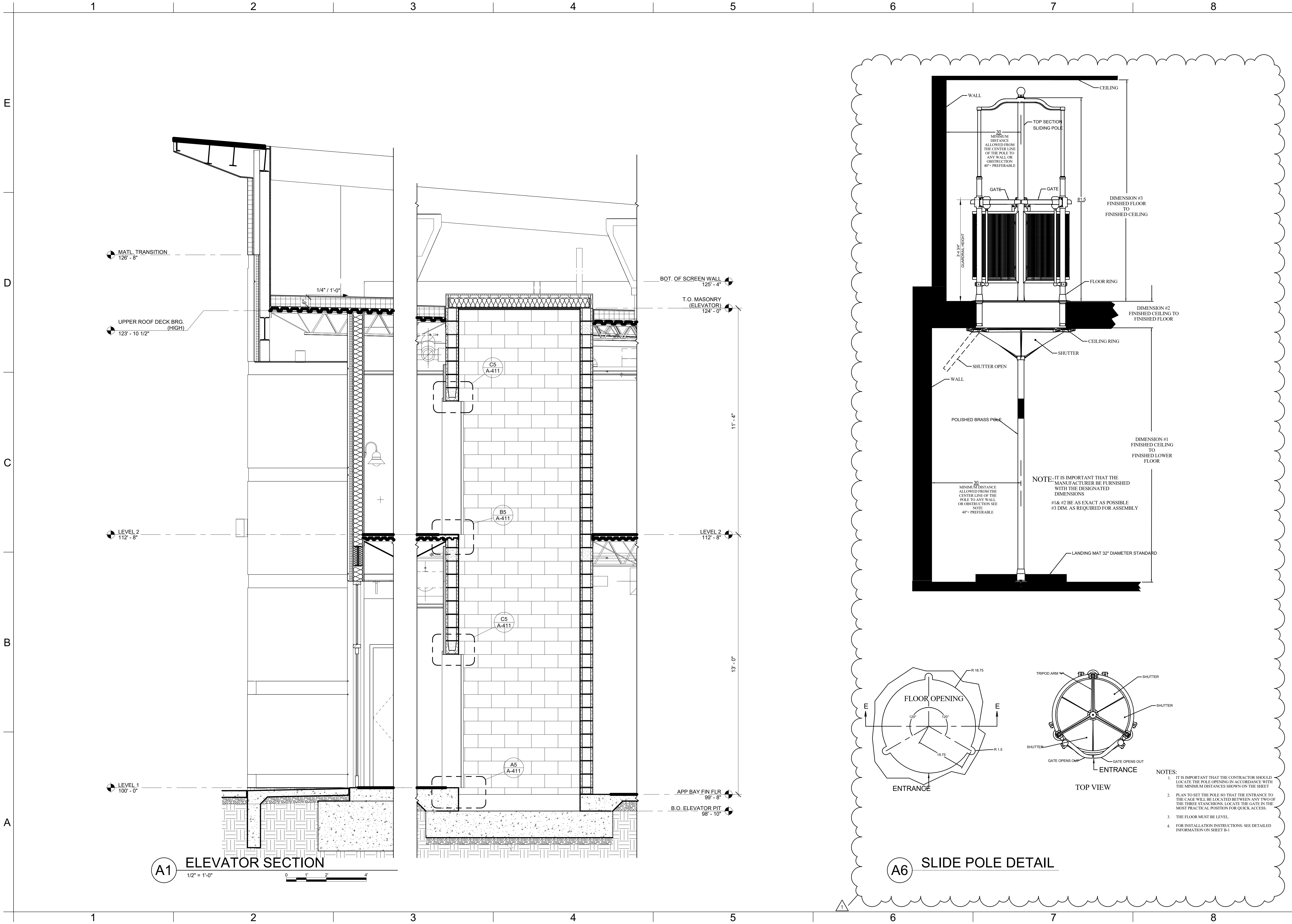


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PAUL J. MICHELL

NUMBER

A-2009021701

11/21/22

ARCHITECT

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CHK'D BY:

GLW

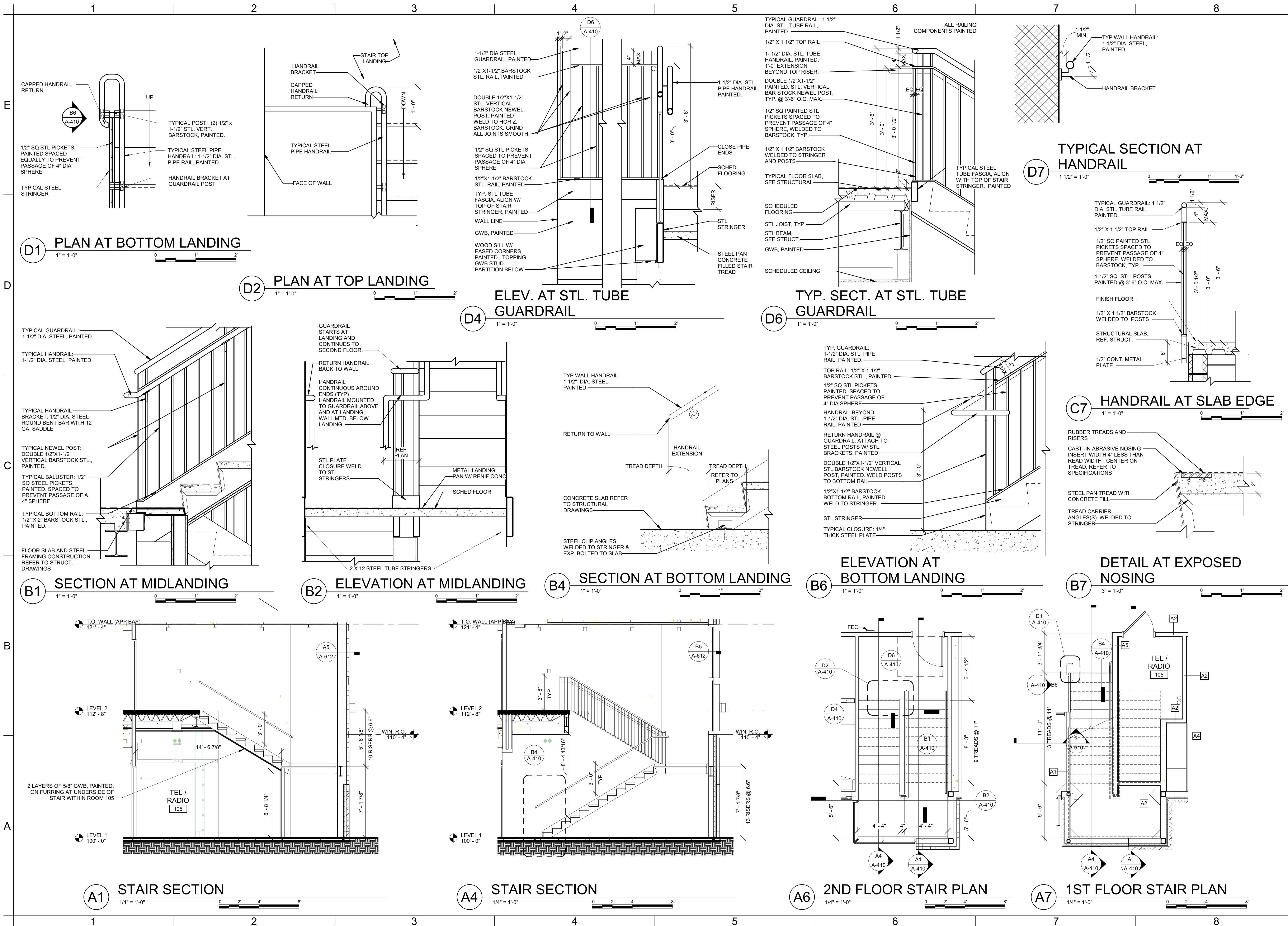
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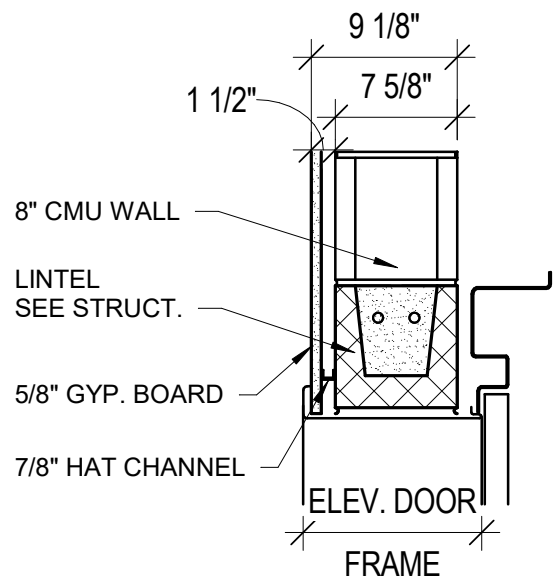
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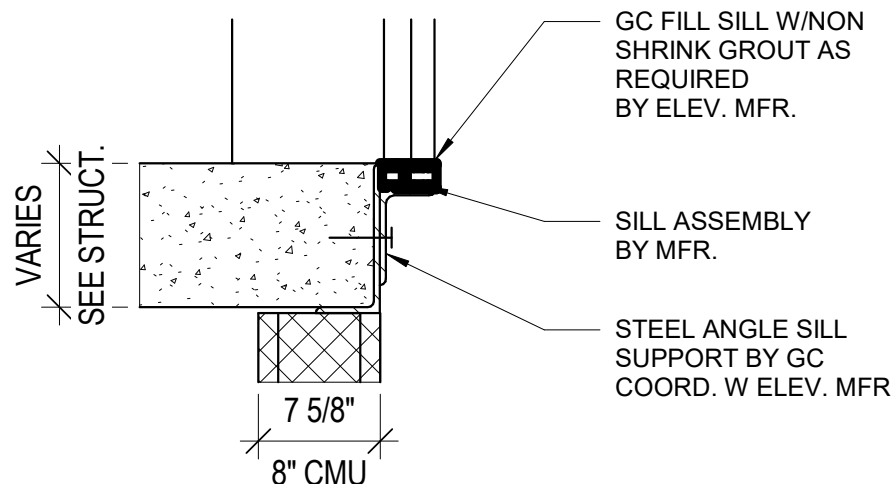
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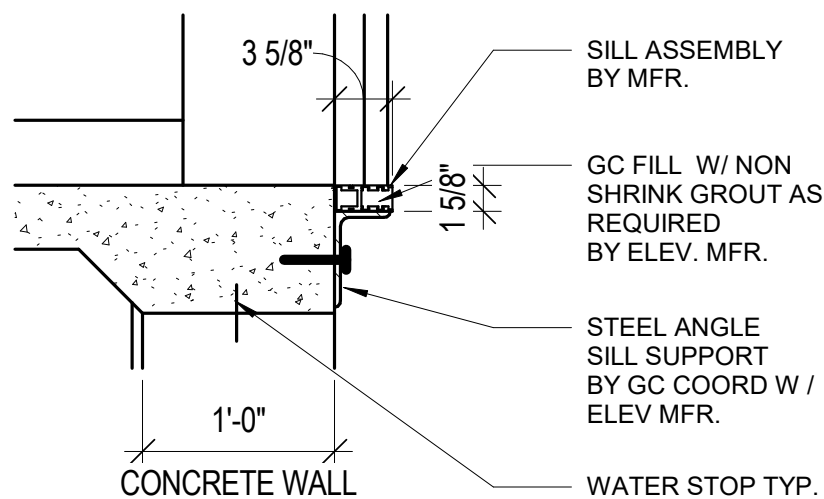
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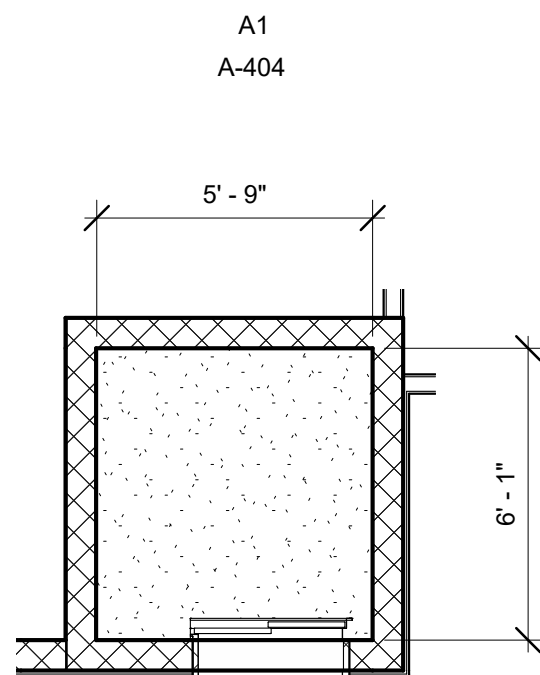
C5 ELEVATOR DOOR HEAD - TYP.



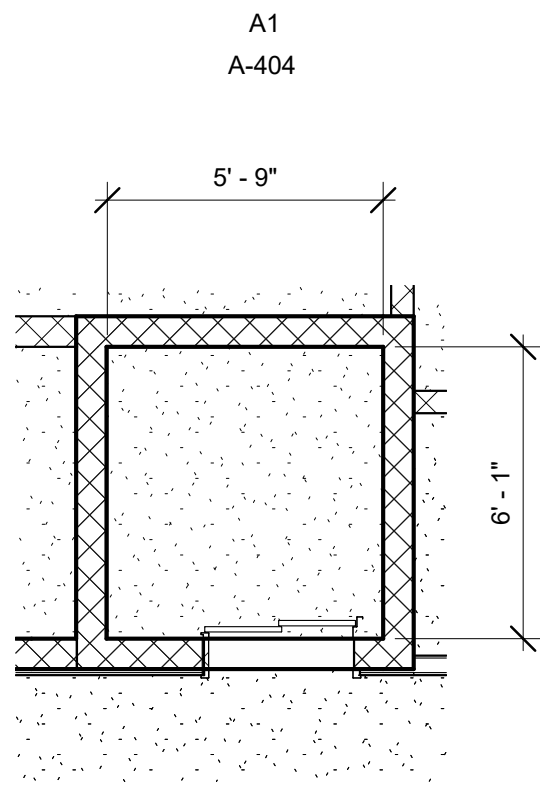
B5 ELEVATOR - DOOR SILL TYP.



A5 ELEVATOR DOOR SILL 1ST FLOOR



B7 ENL. ELEVATOR PLAN - 2ND FLOOR



A7 ENL. ELEVATOR PLAN - 1ST FLOOR

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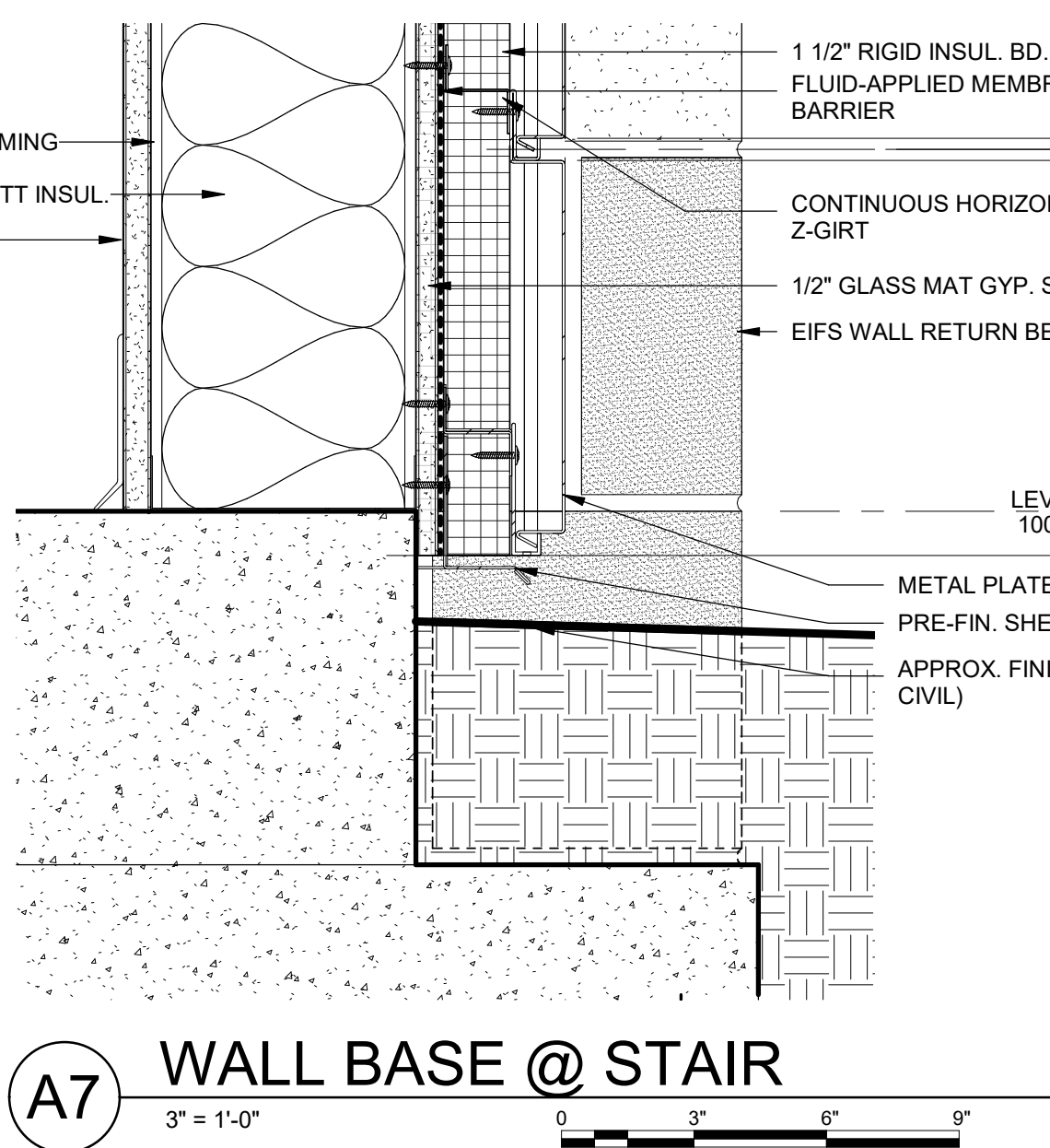
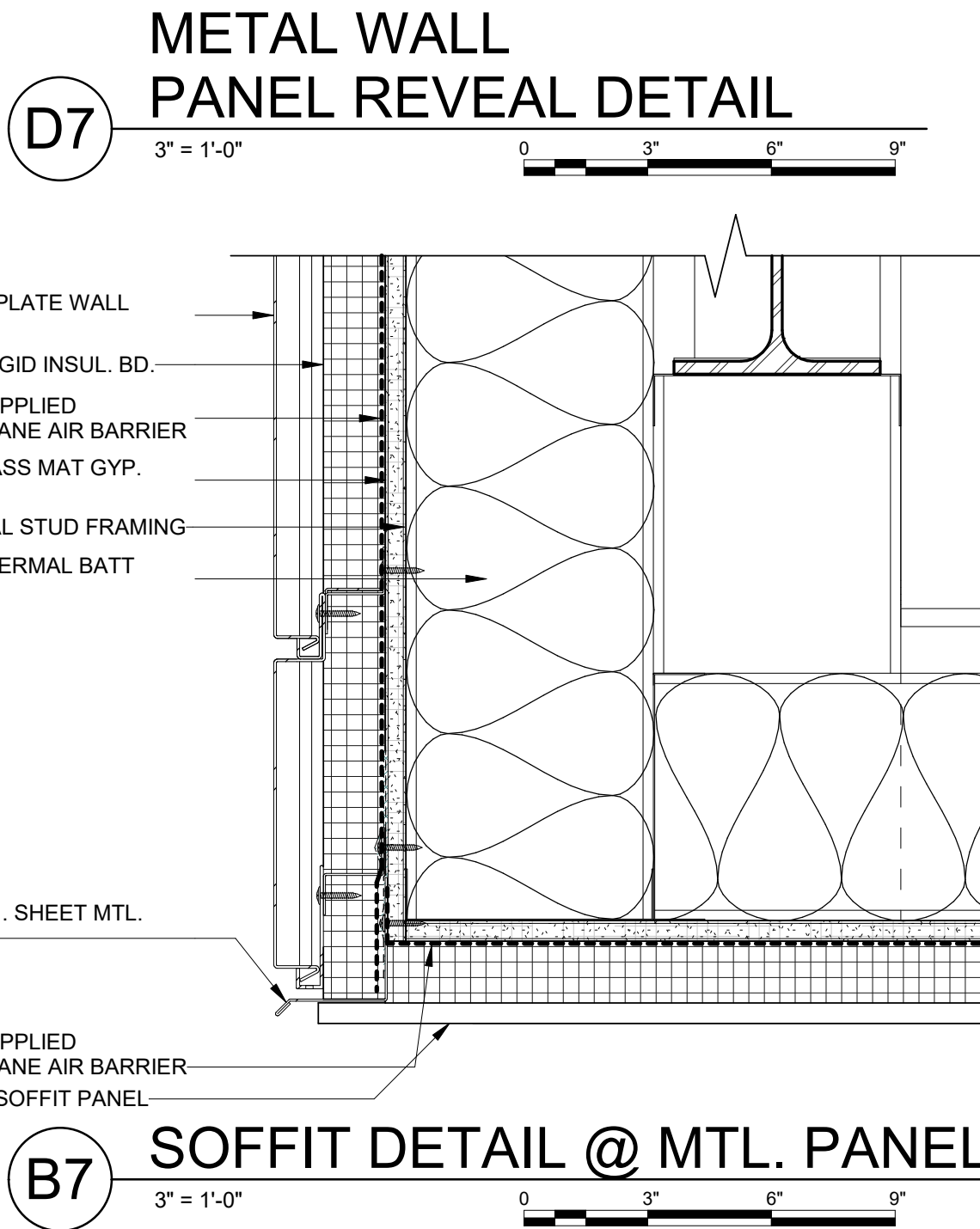
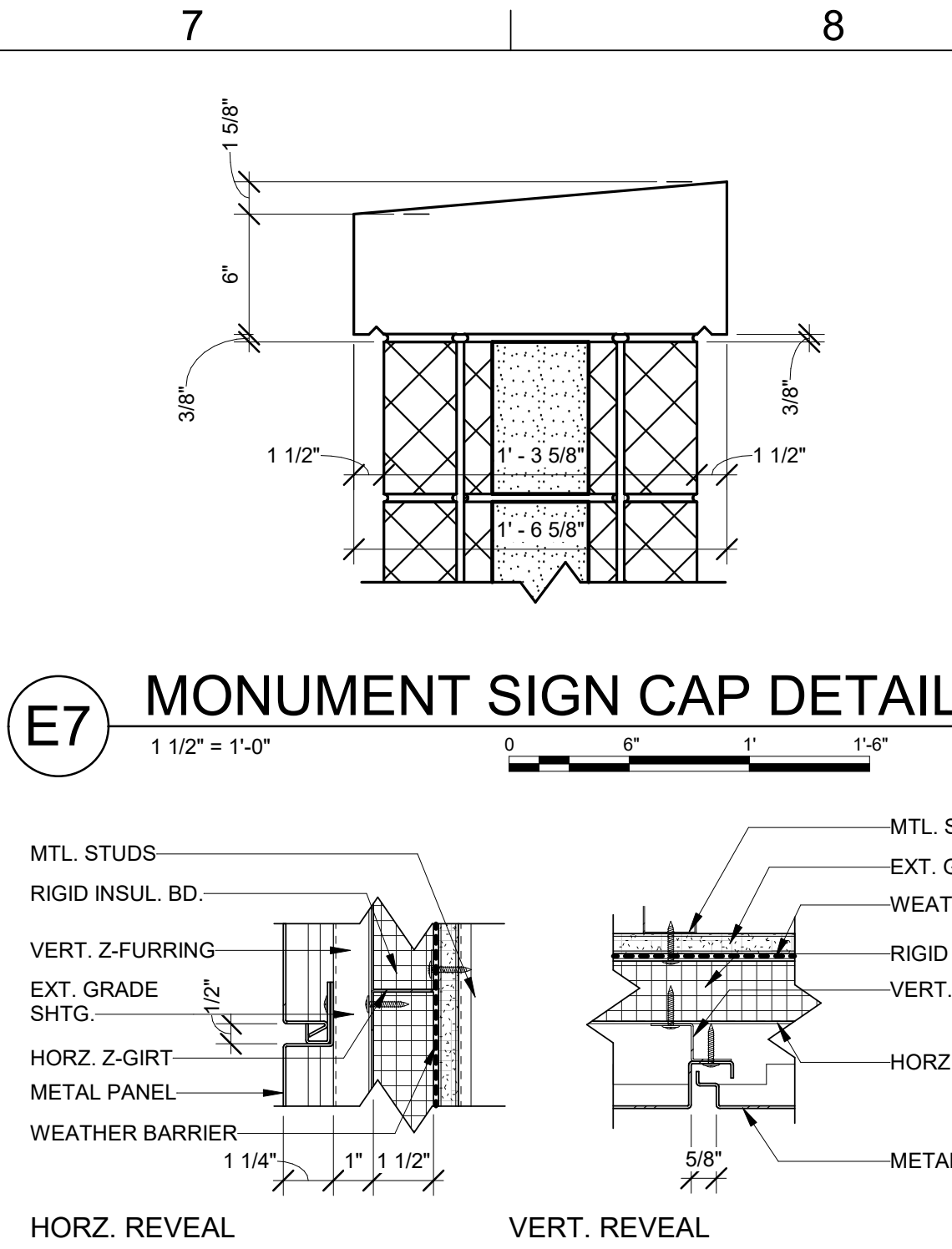
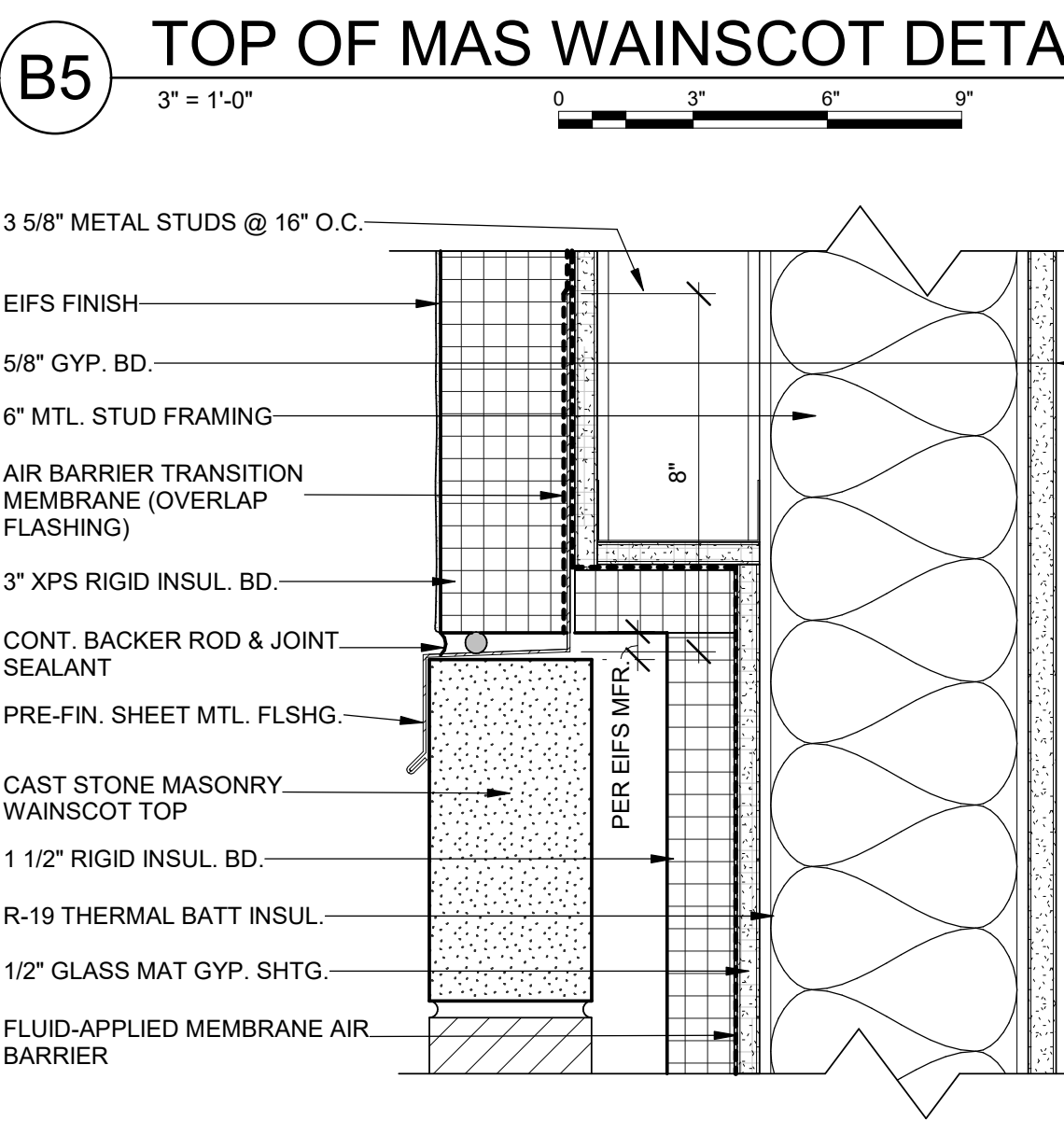
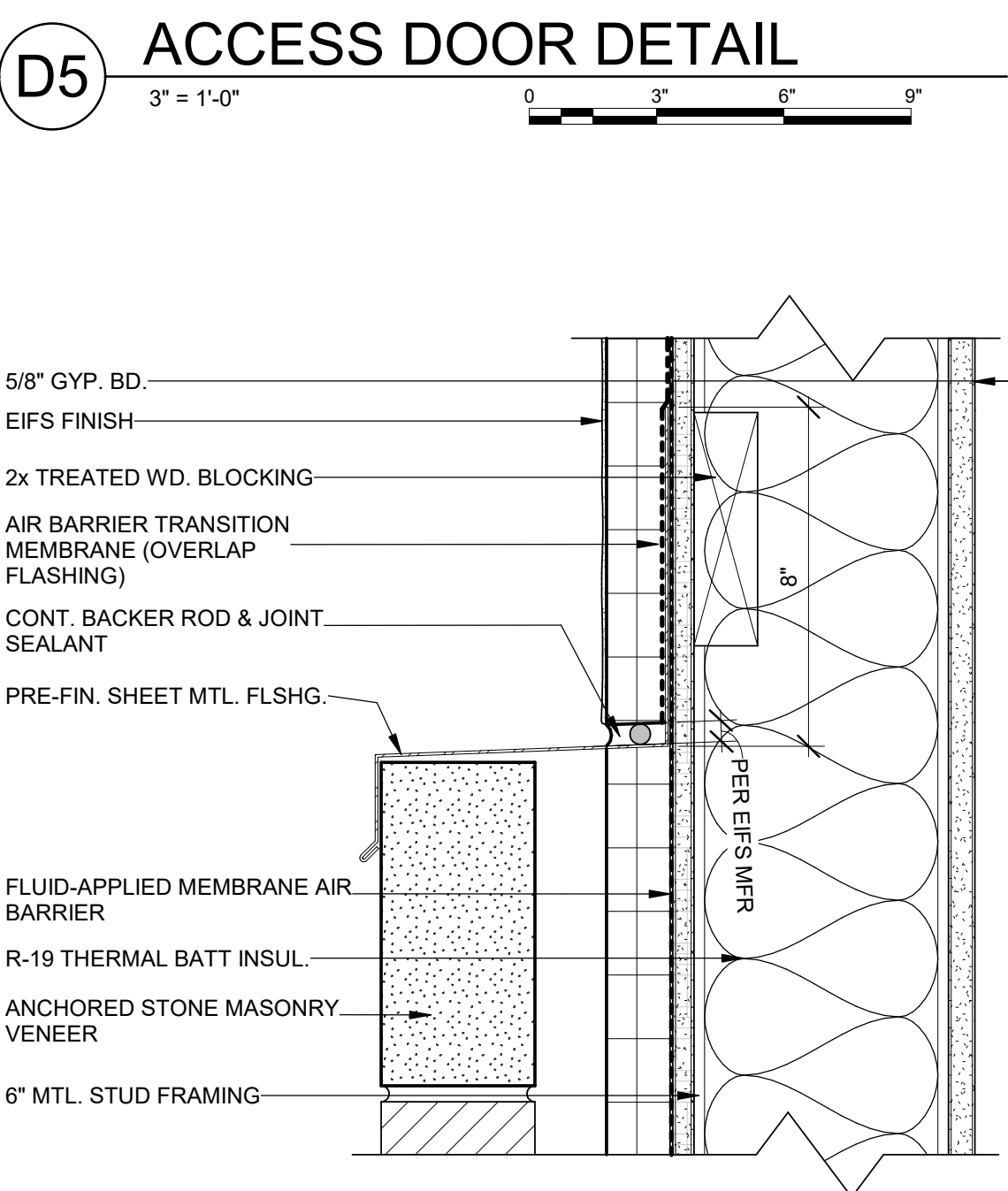
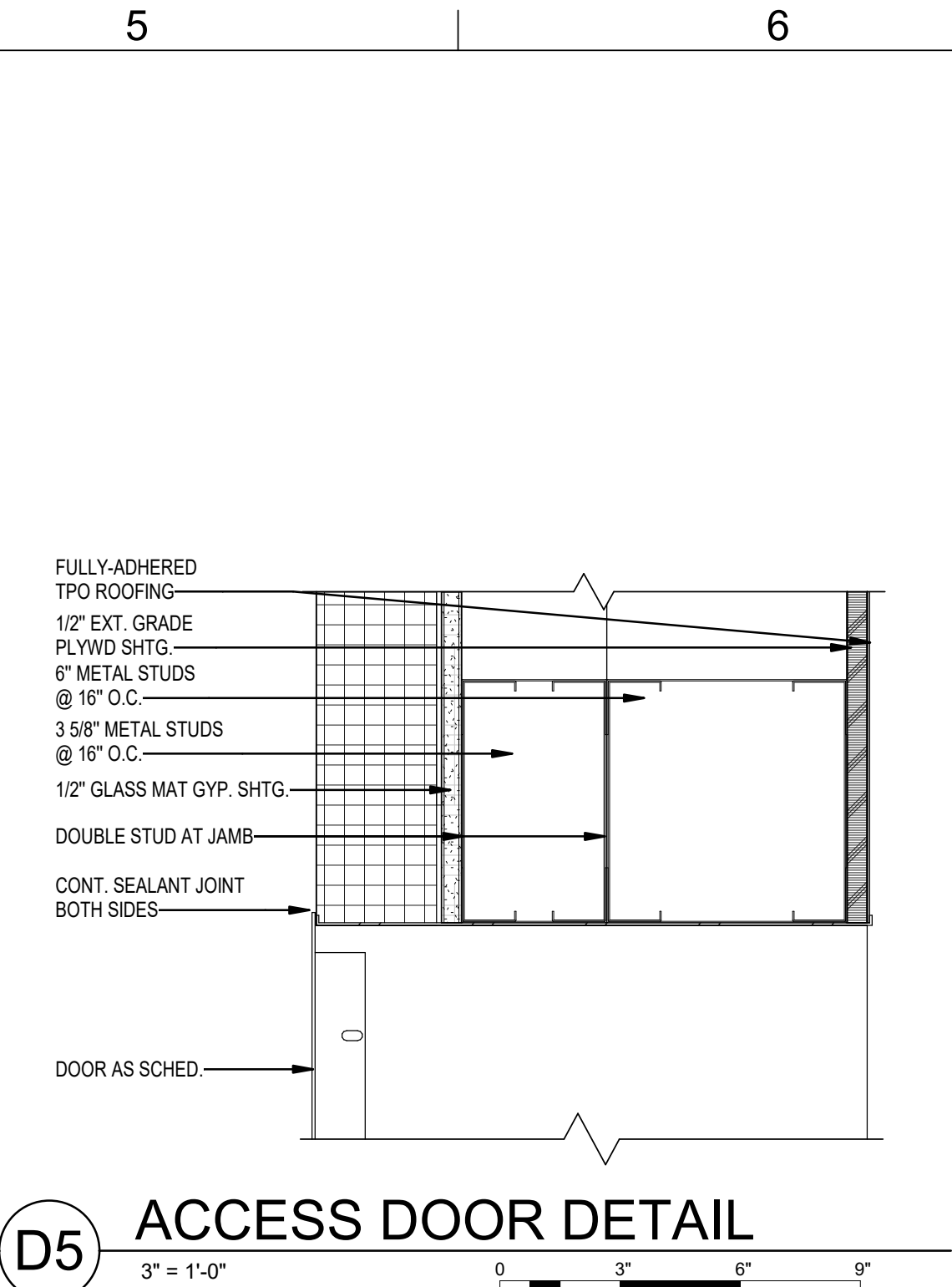
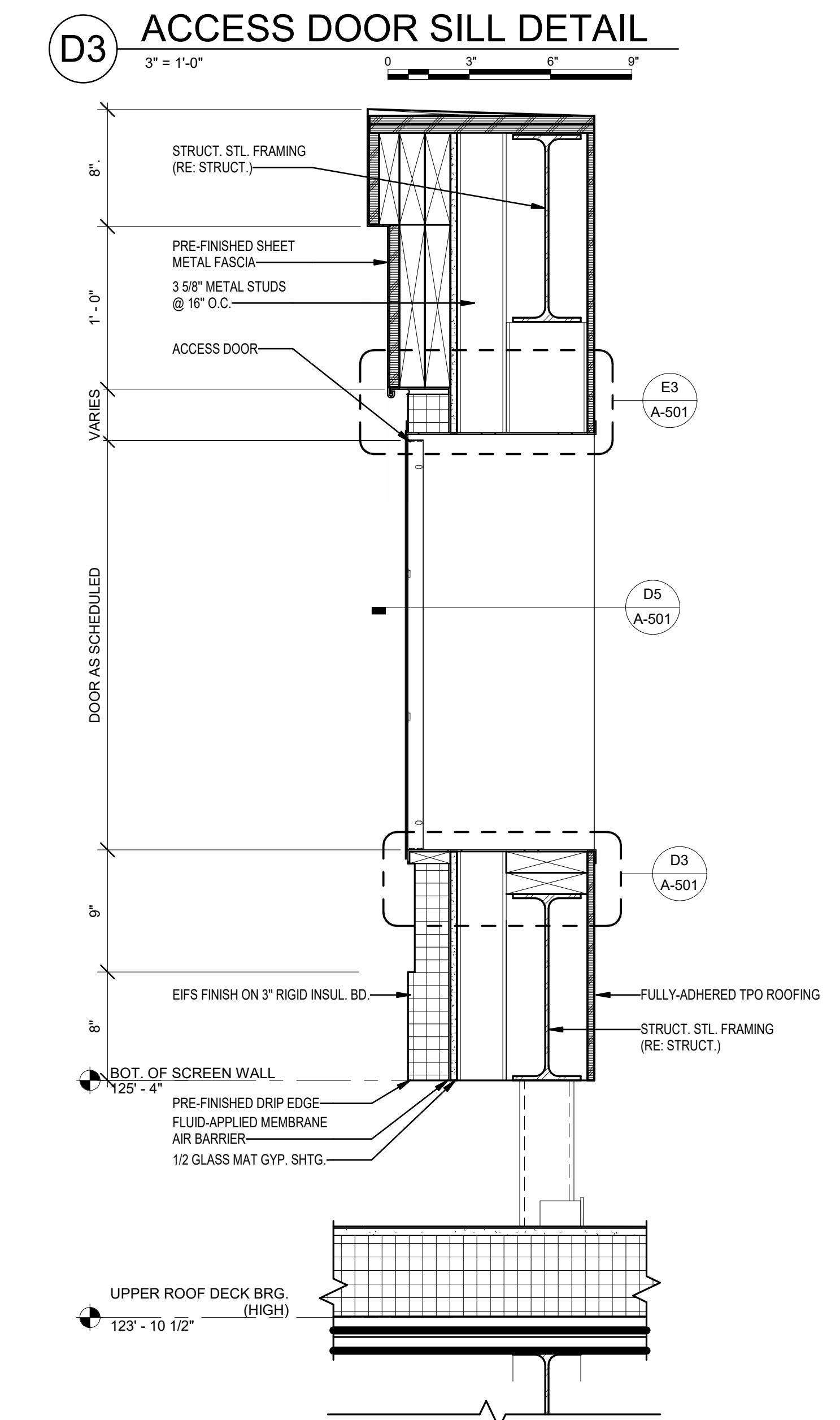
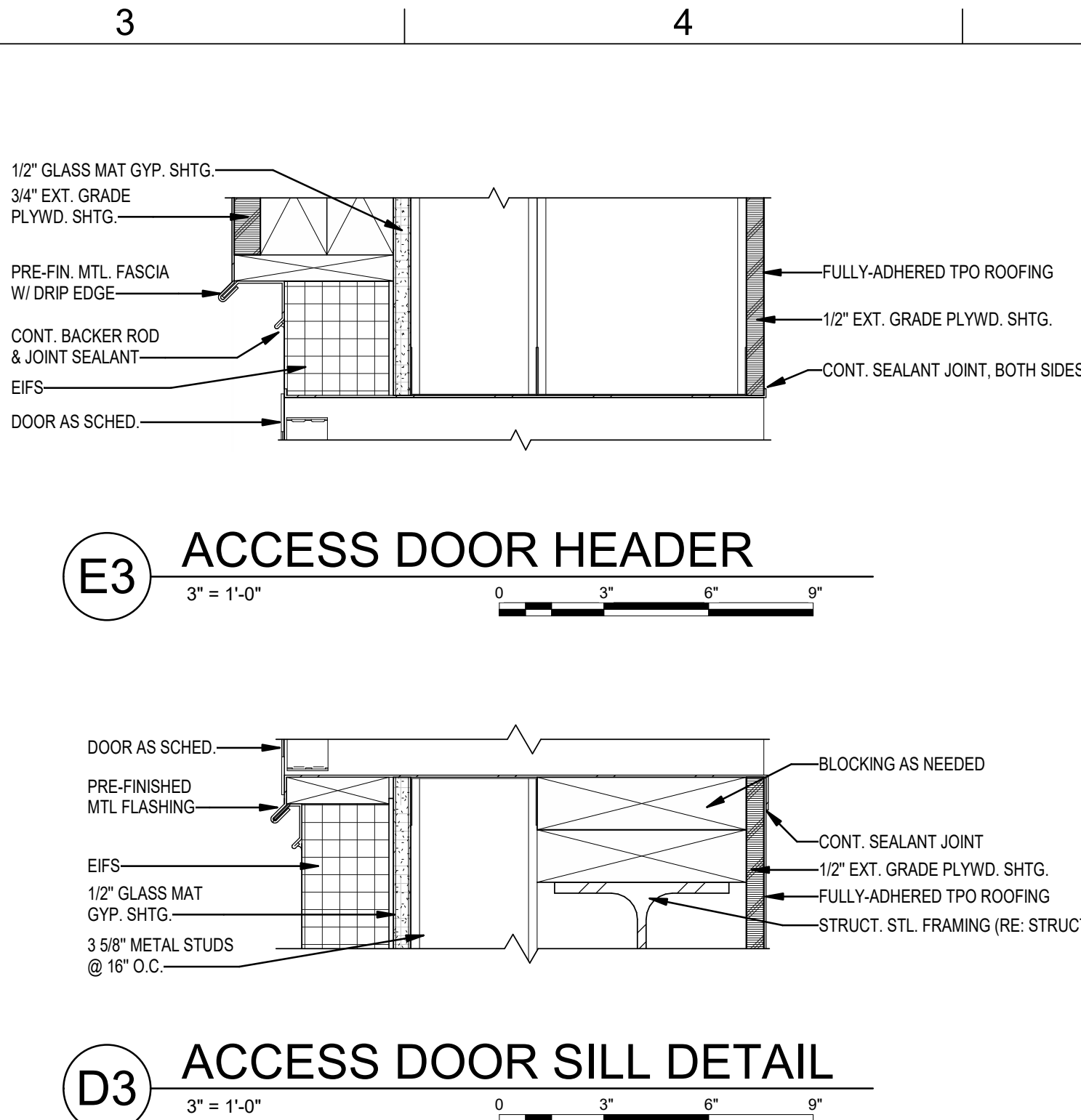
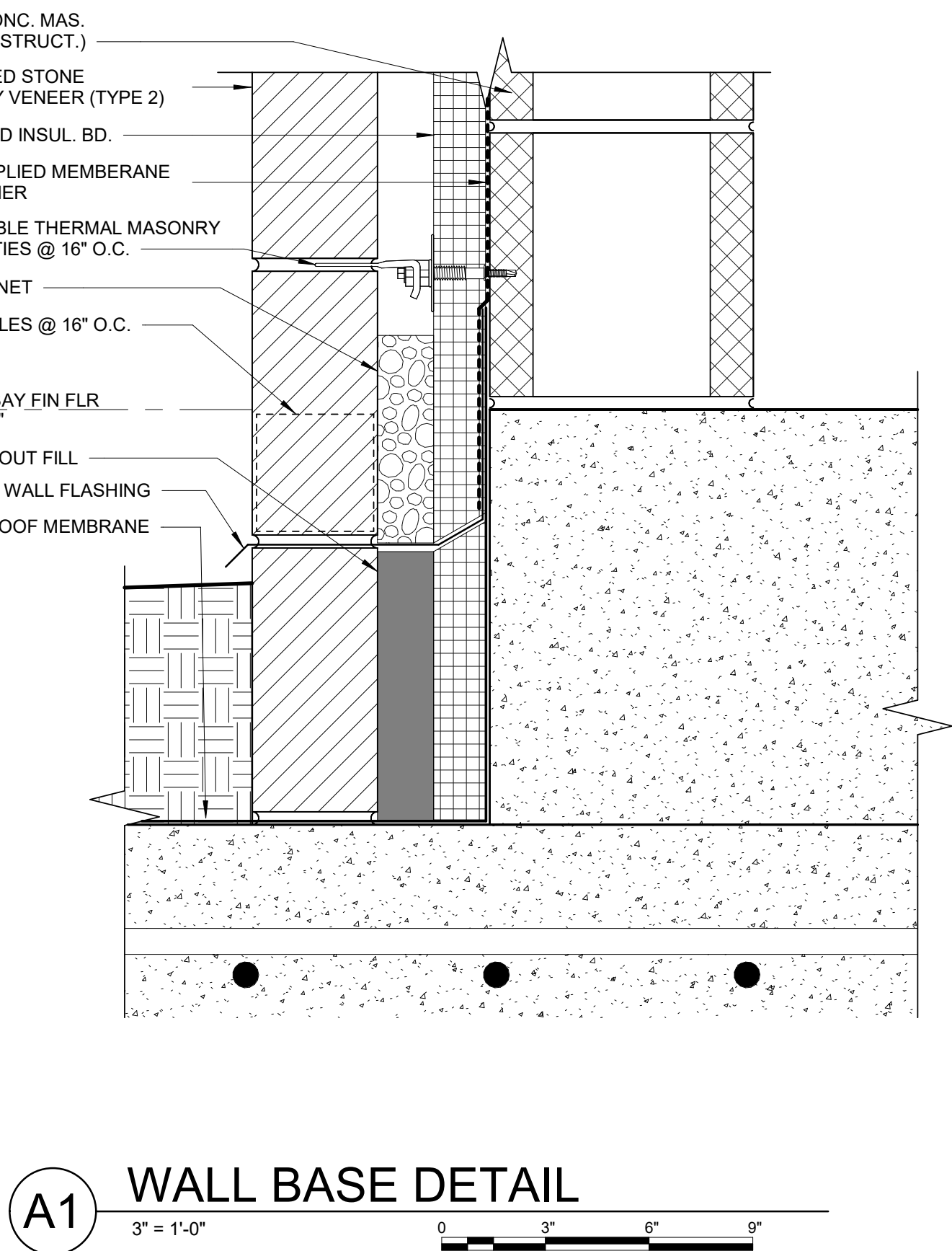
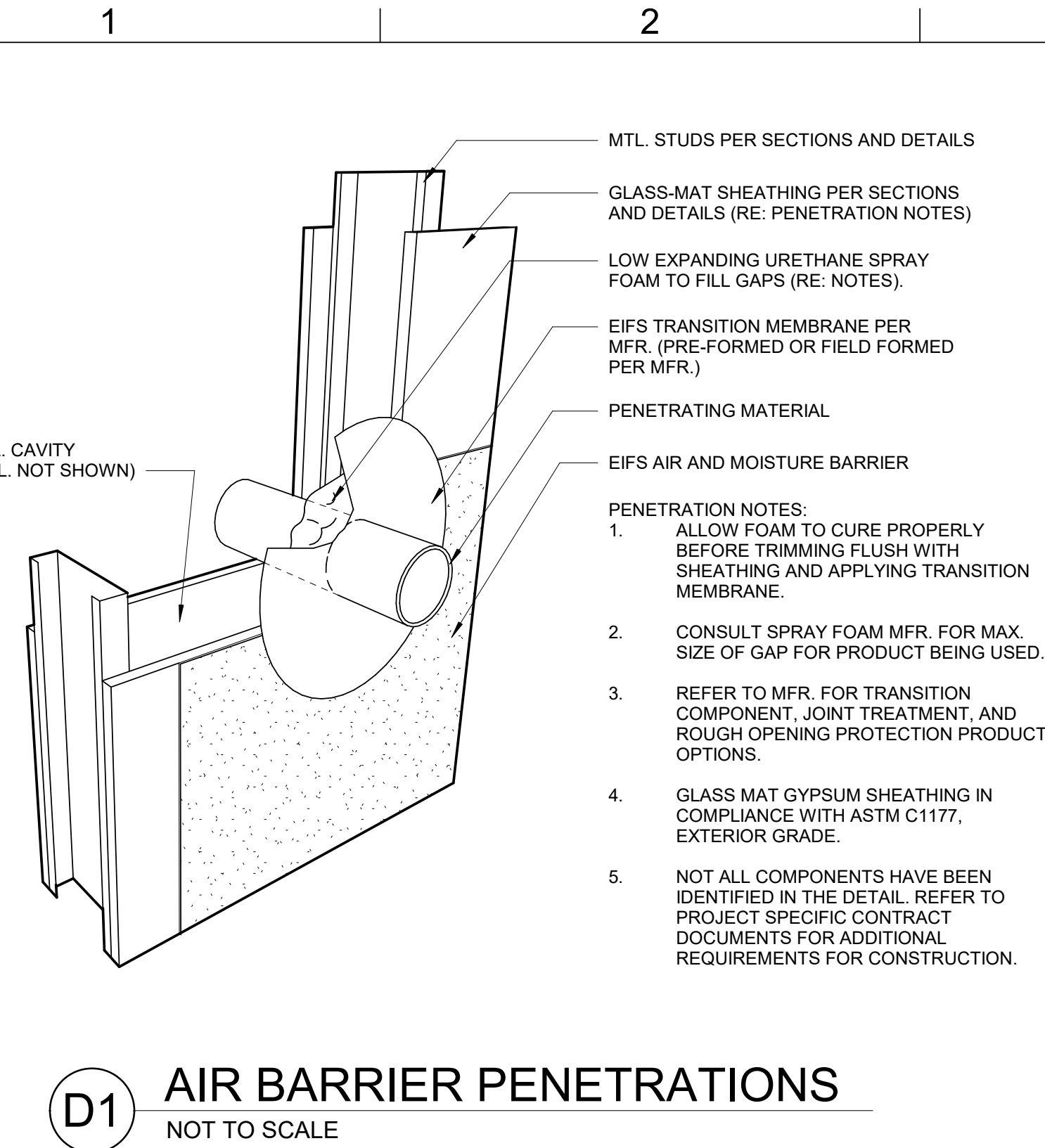
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**ENLARGED
ELEVATOR PLAN**

A-411

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

#	Description	Date
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STATE OF MISSOURI
PAUL J. MICHELL
NUMBER A-2009021701
1/21/22
ARCHITECT

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CITY OF LEE'S SUMMIT
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LEE'S SUMMIT, MISSOURI 64082

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MO# A-2009021701

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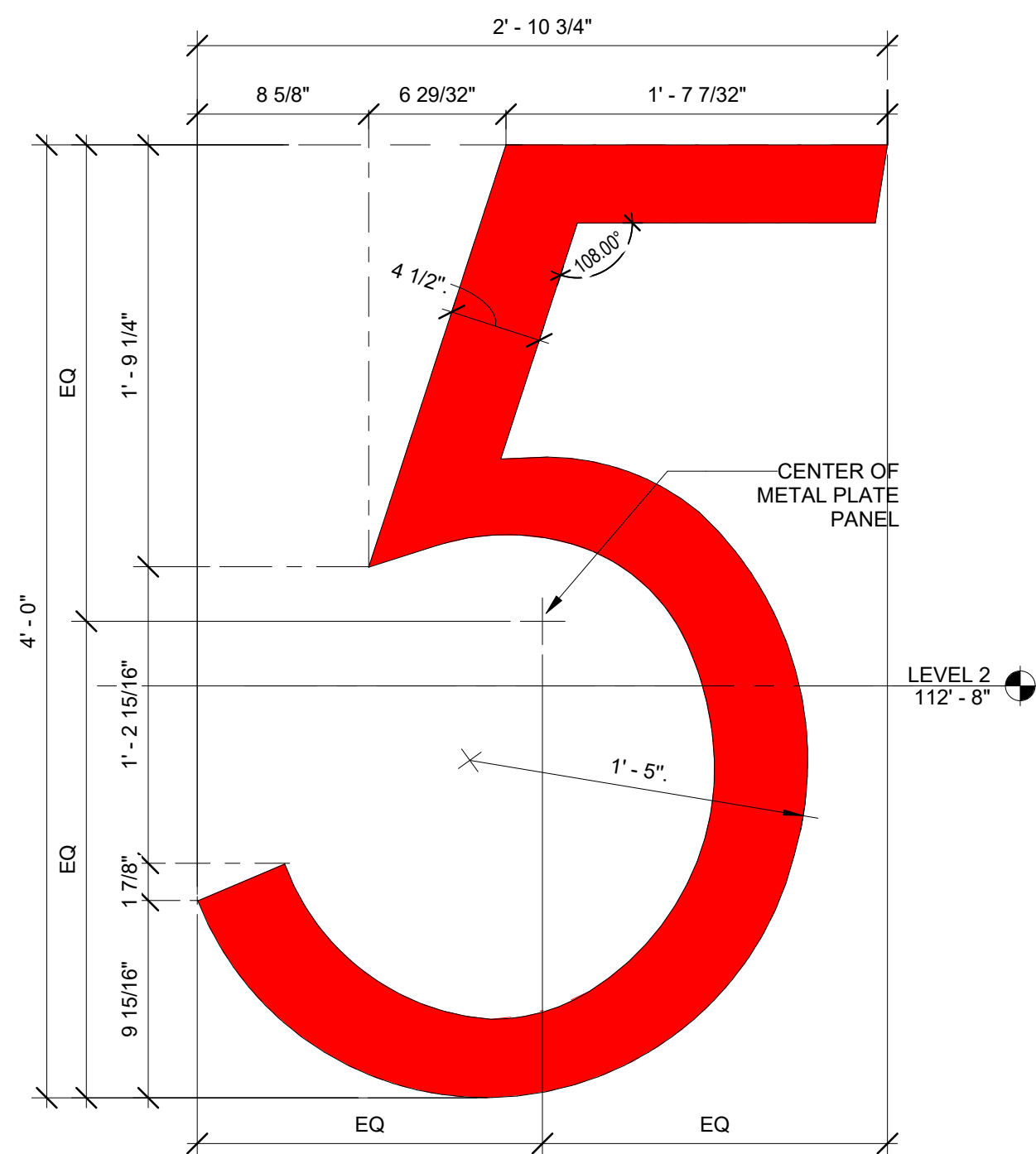
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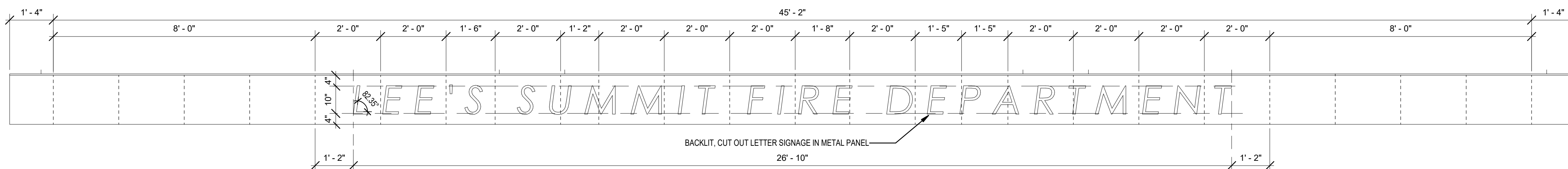
WALL DETAILS

A-502

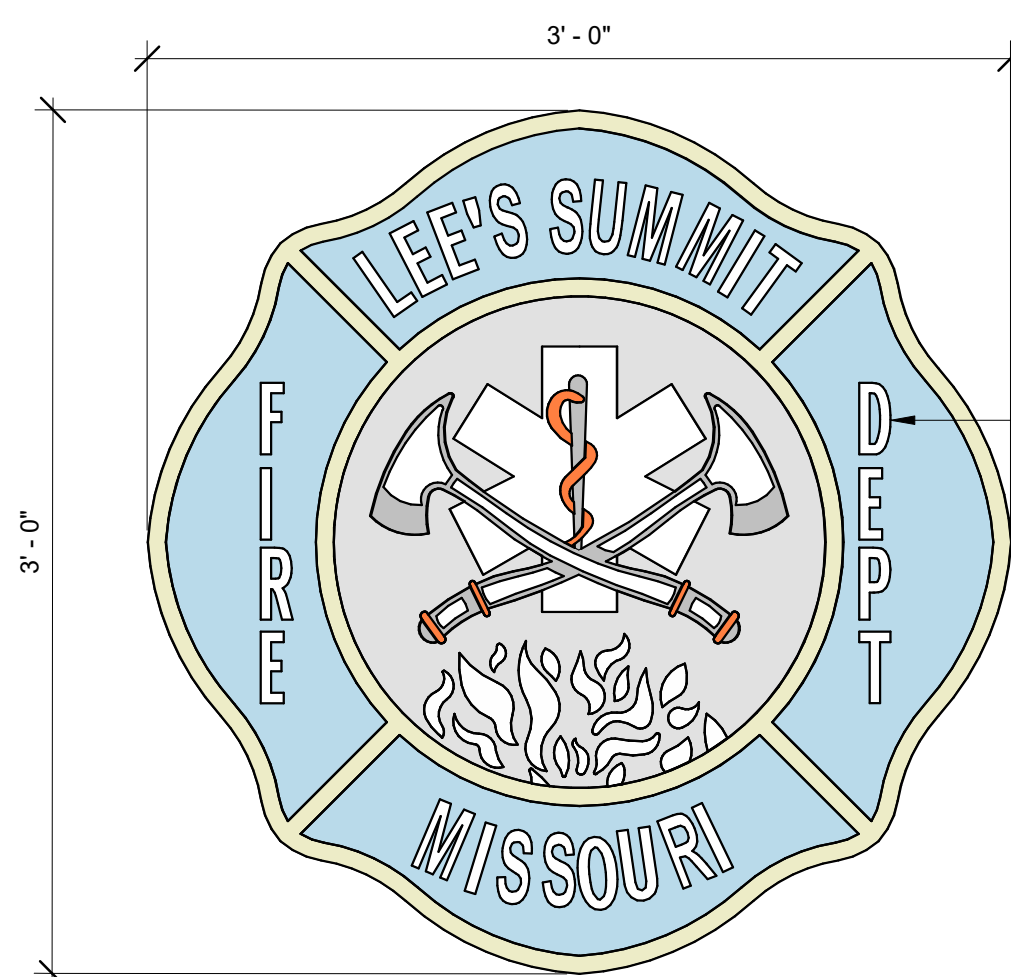
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D1 SIGNAGE DETAIL

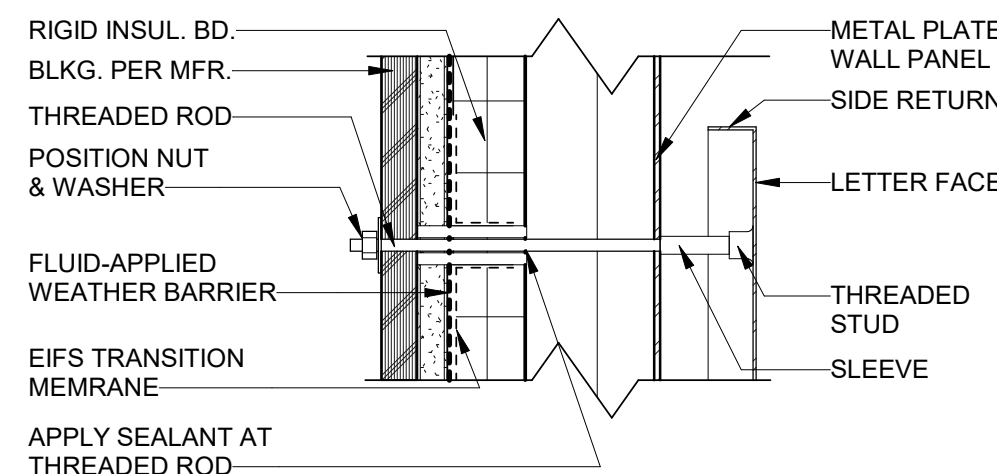


C1 CANOPY SIGN DETAIL



—NEGATIVE SPACES (OPENINGS) TYPICAL

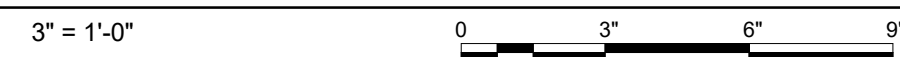
- NOTES:
1. VERIFY COLORS WITH THE OWNER.
 2. OWNER TO PROVIDE ELECTRONIC COPY ACCURATELY DEPICTING ACTUAL LAYOUT FOR USE IN THE CREATION OF THE CREST.
 3. COLORS SHOWN ARE NOT ACTUAL COLORS, ONLY REPRESENTATIVE OF THE NUMBER DIFFERENT COLORS TO BE EXPECTED.



 FIRE DEPARTMENT CREST



4.4 SIGNAGE ATTACHMENT DETAIL



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

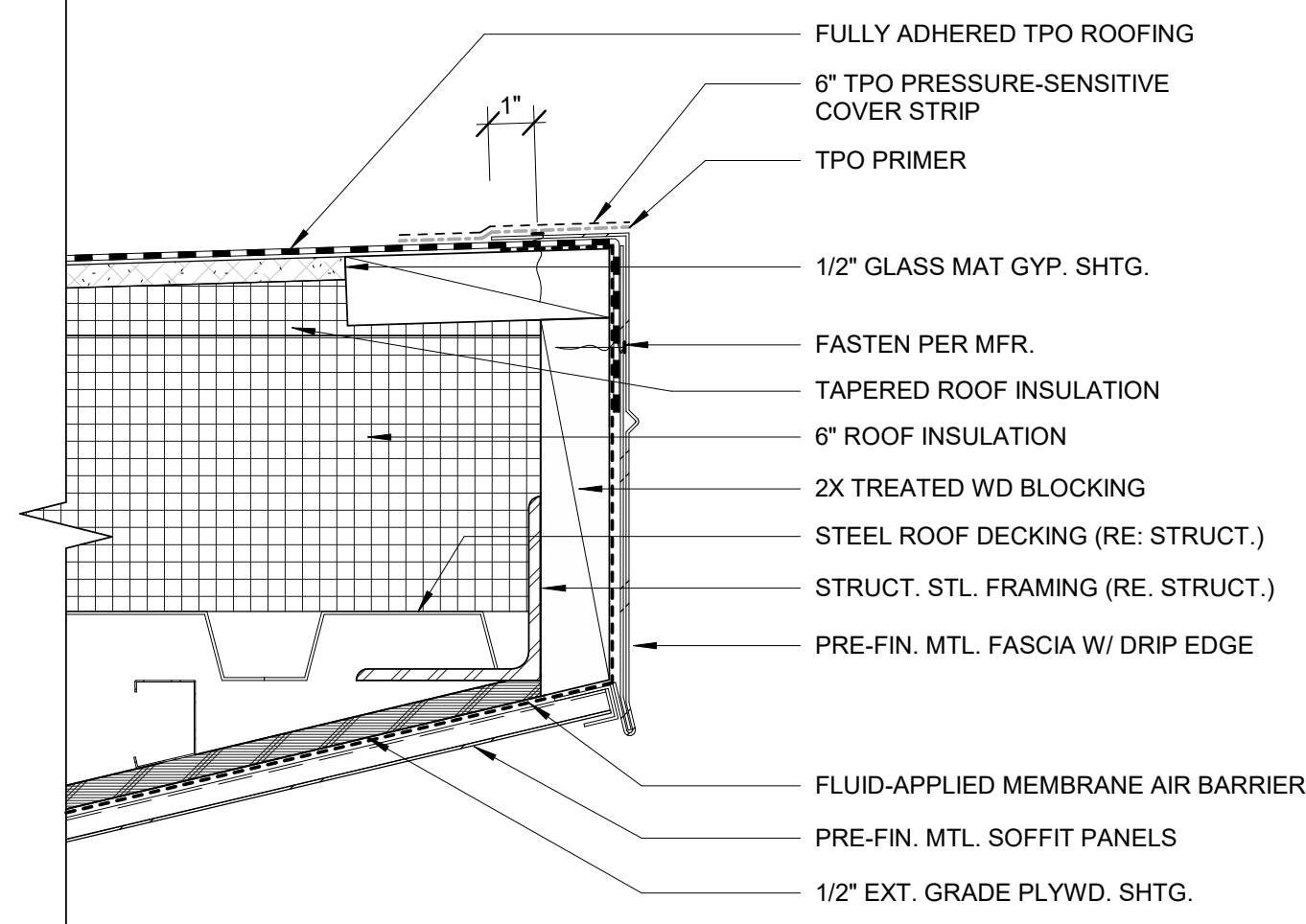
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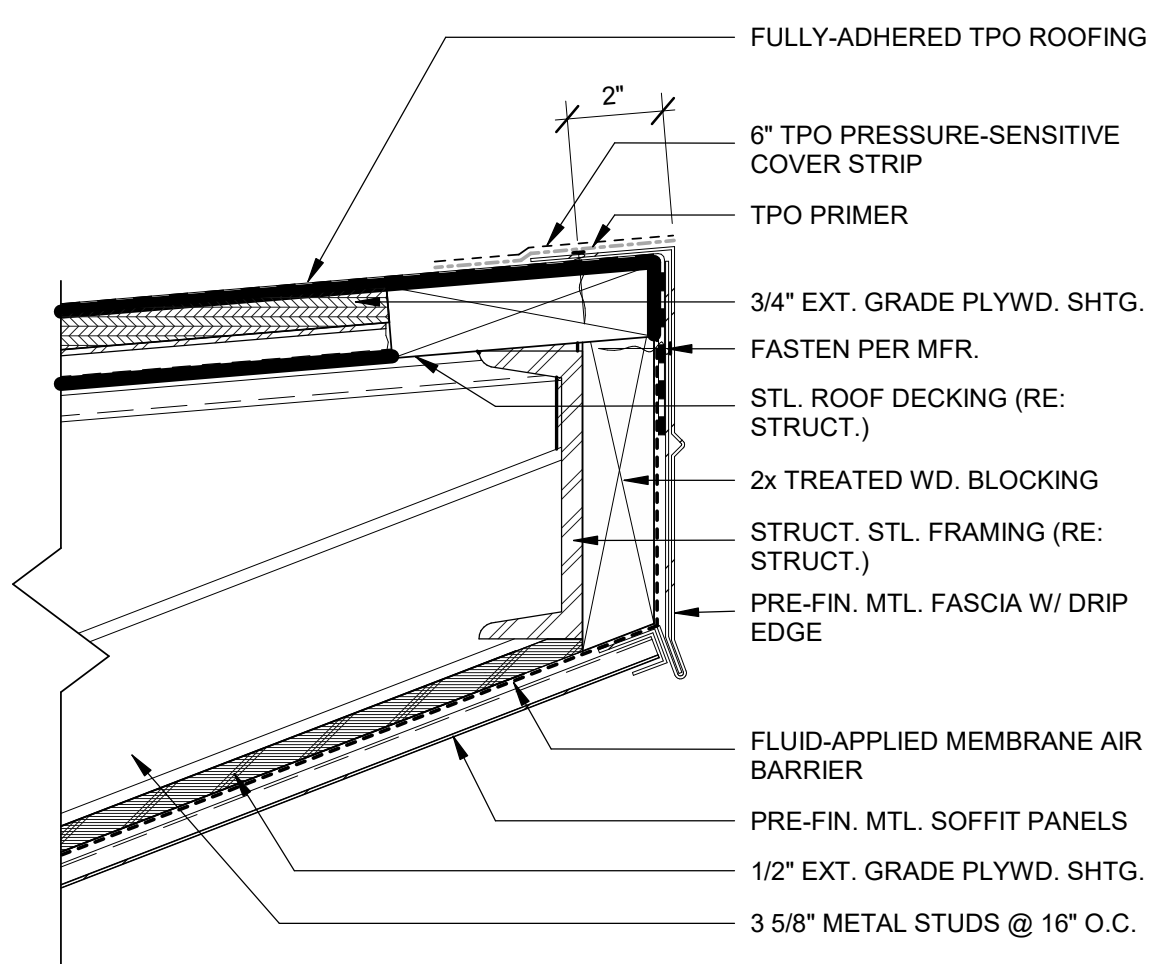
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D1 ROOF - APP BAY (EAVE)

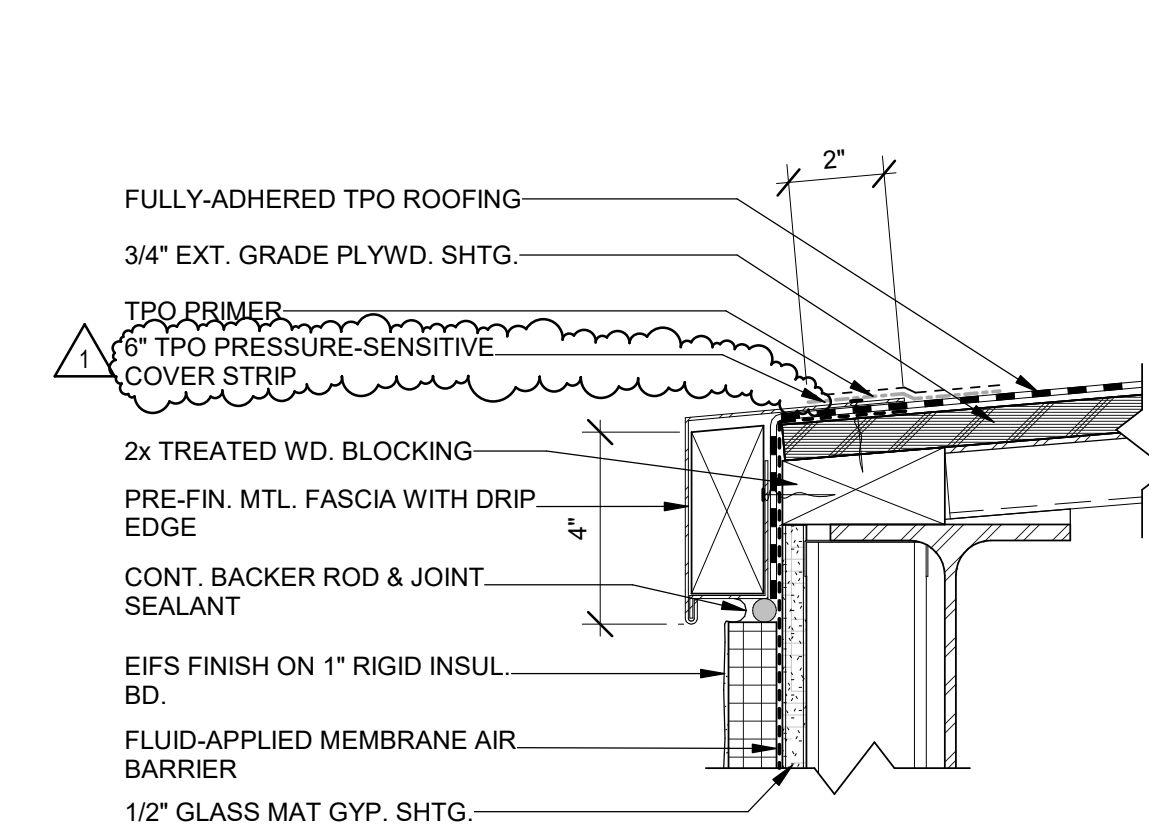
3" = 1'-0"

- 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.



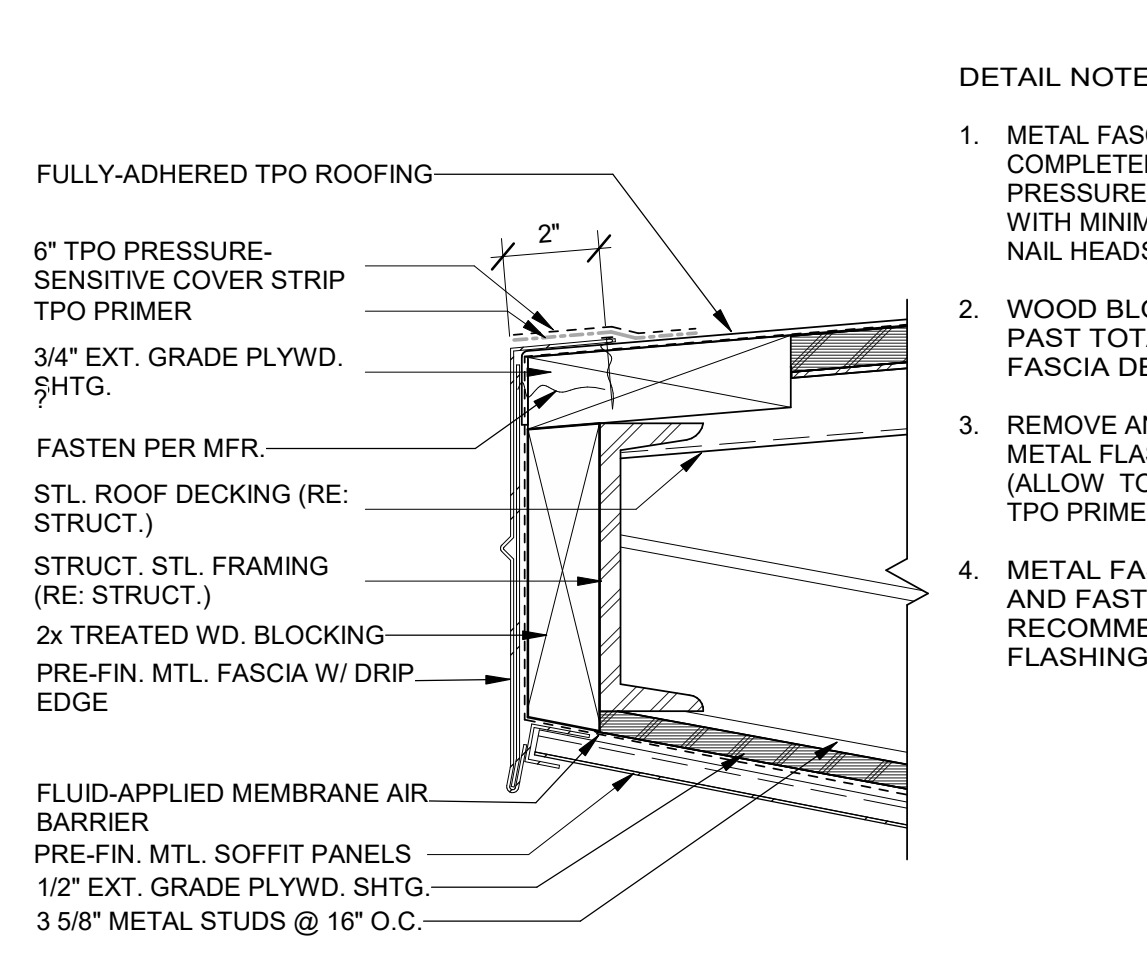
D3 ROOF EAVE DETAIL

3" = 1'-0"



D5 ROOF EDGE DETAIL

3" = 1'-0"

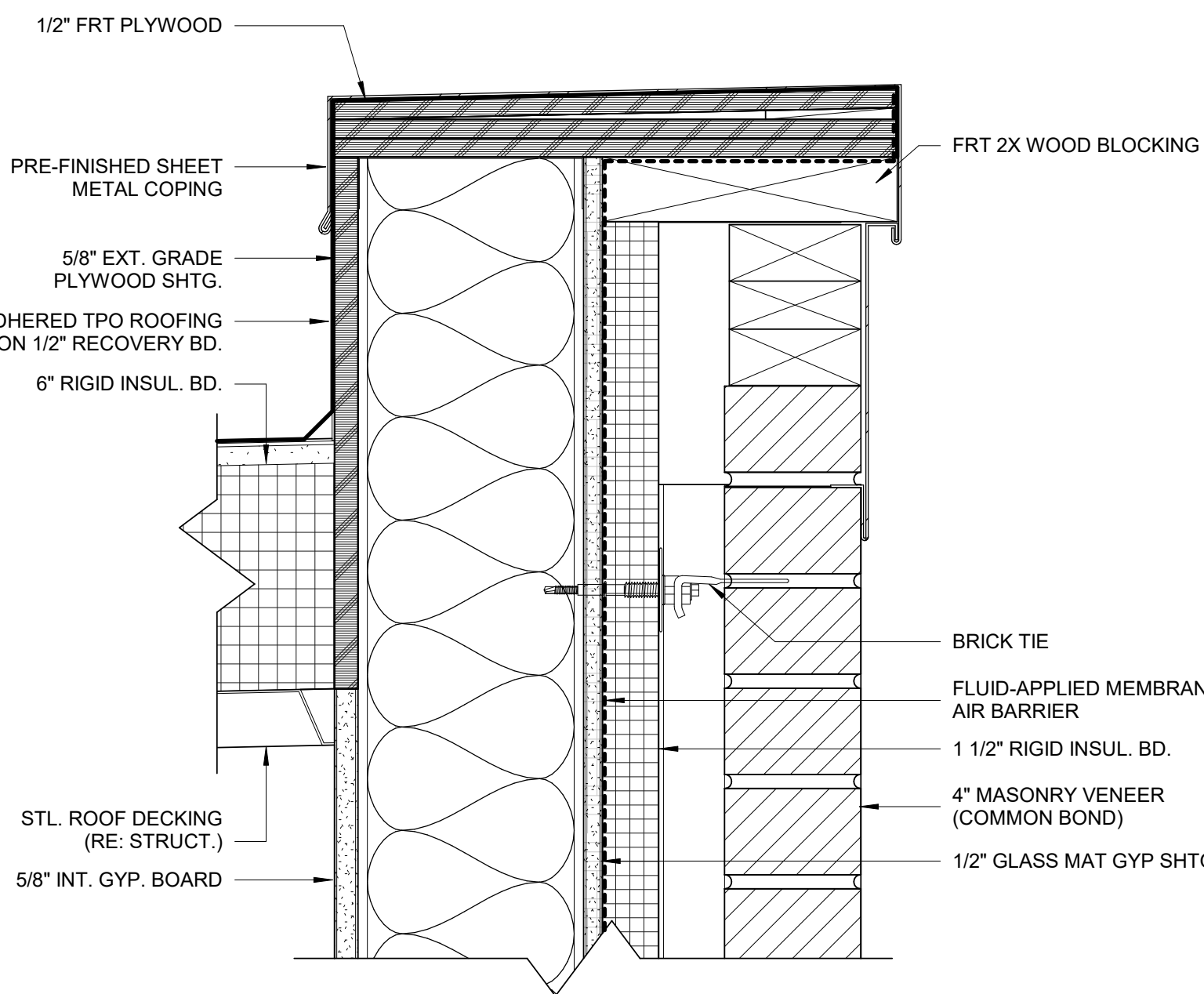


D7 ROOF EAVE DETAIL

3" = 1'-0"

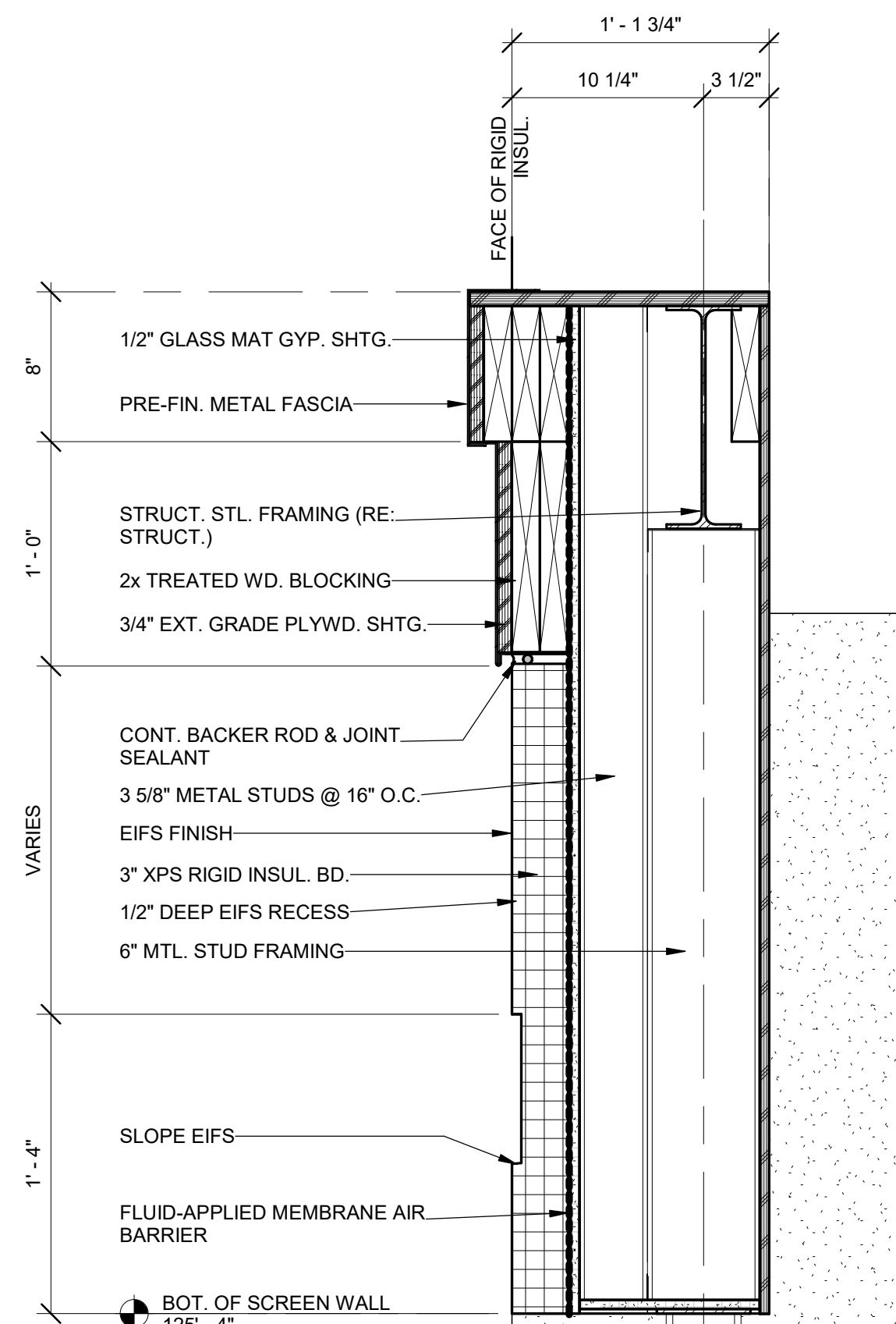
DETAIL NOTES:

- 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.



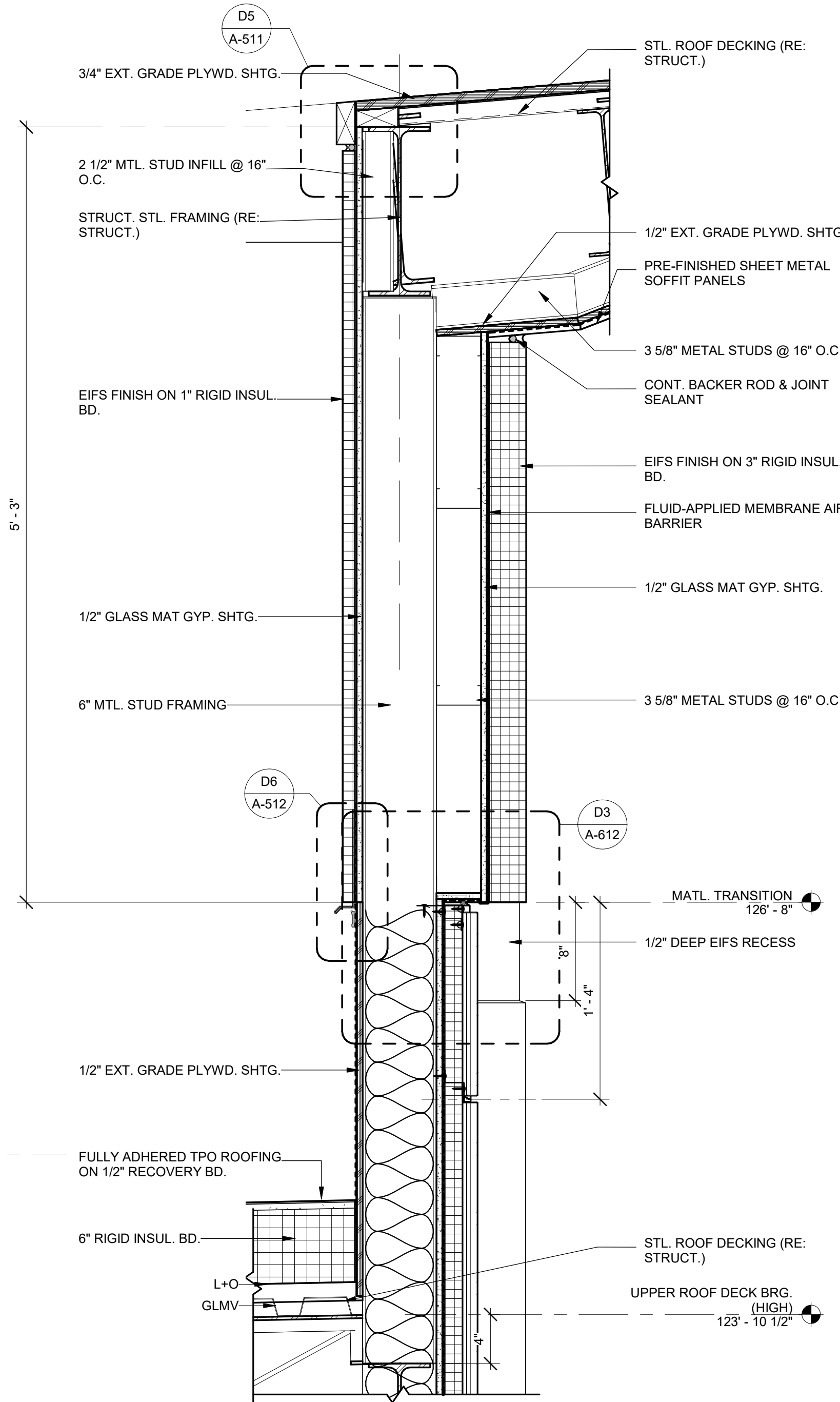
A1 PARAPET DETAIL

3" = 1'-0"



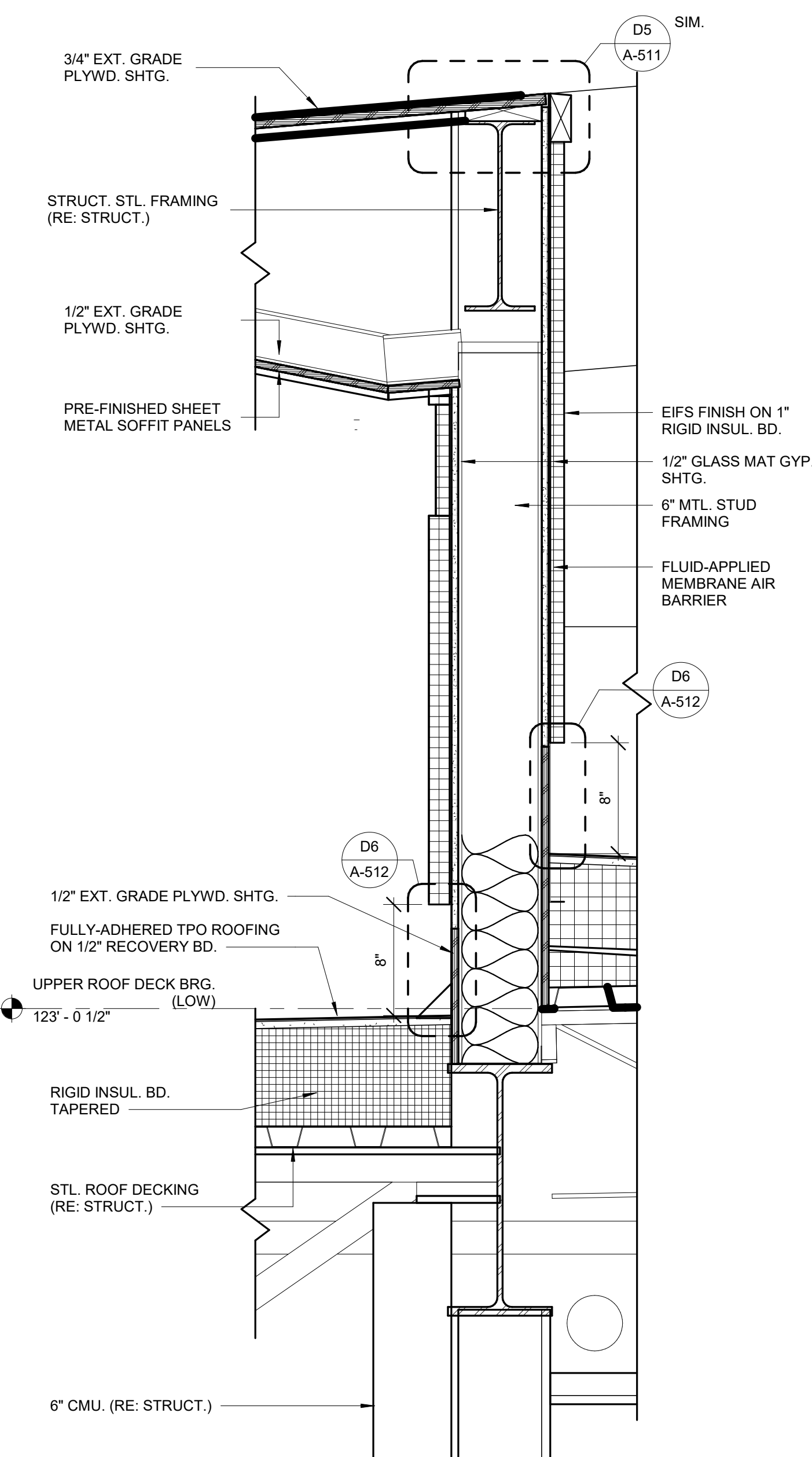
A3 MECHANICAL EQUIP. SCREEN

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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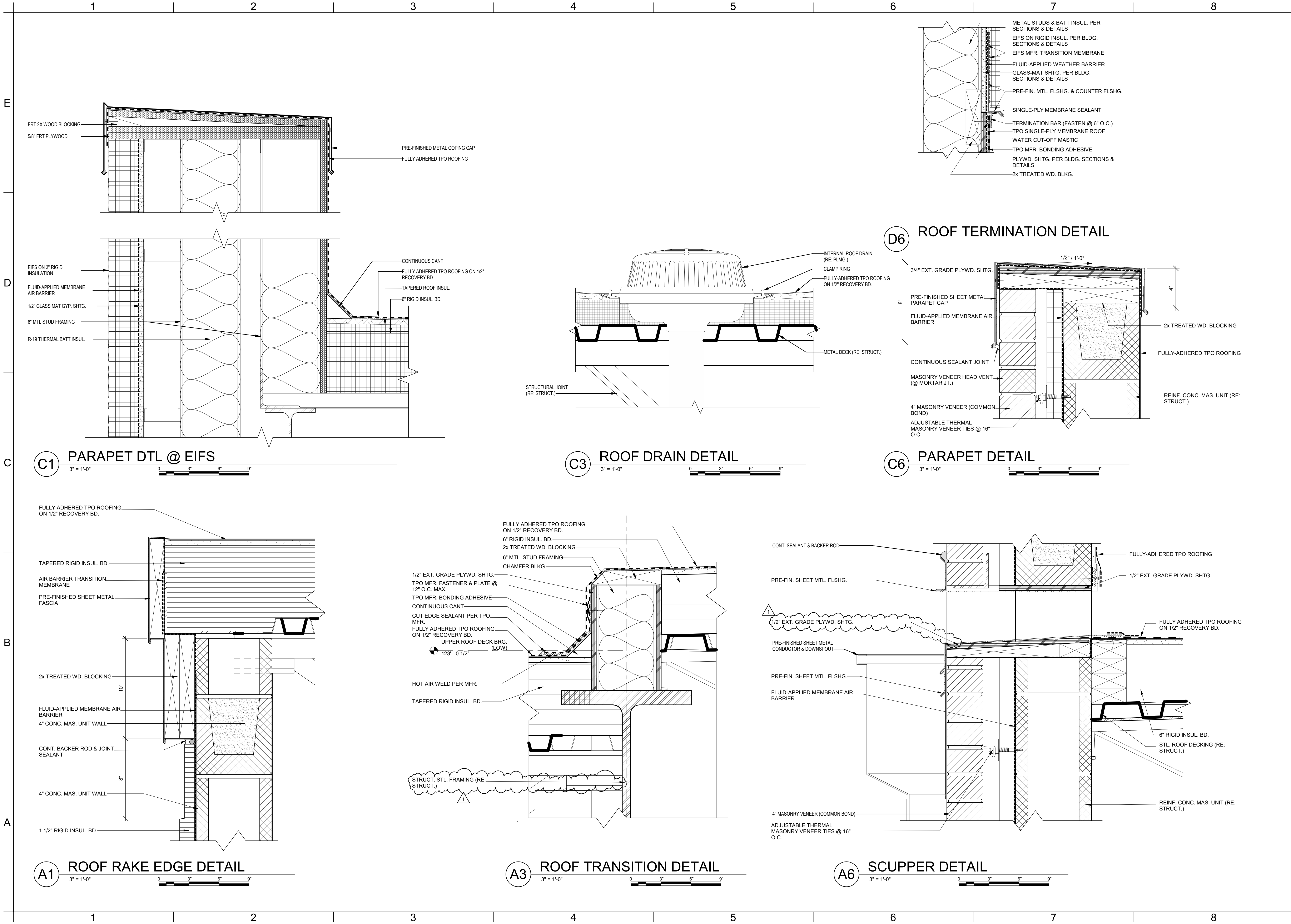
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FIRE STATION #5
CITY OF LEE'S SUMMIT
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LEE'S SUMMIT, MISSOURI 64082
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REVISIONS:
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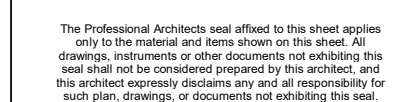
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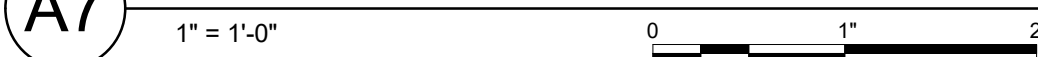
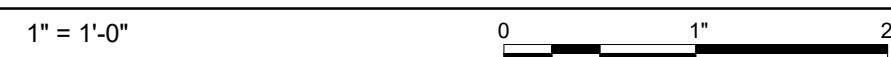
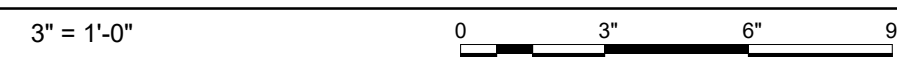
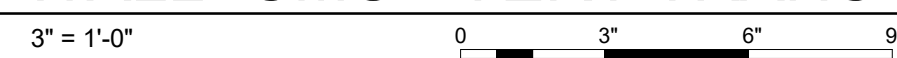
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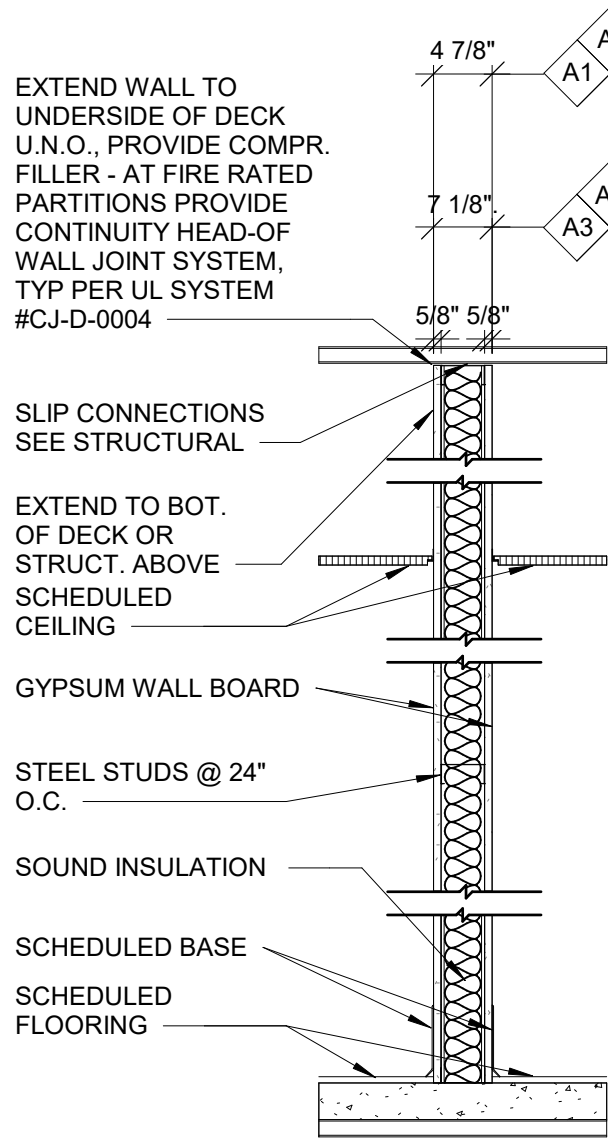
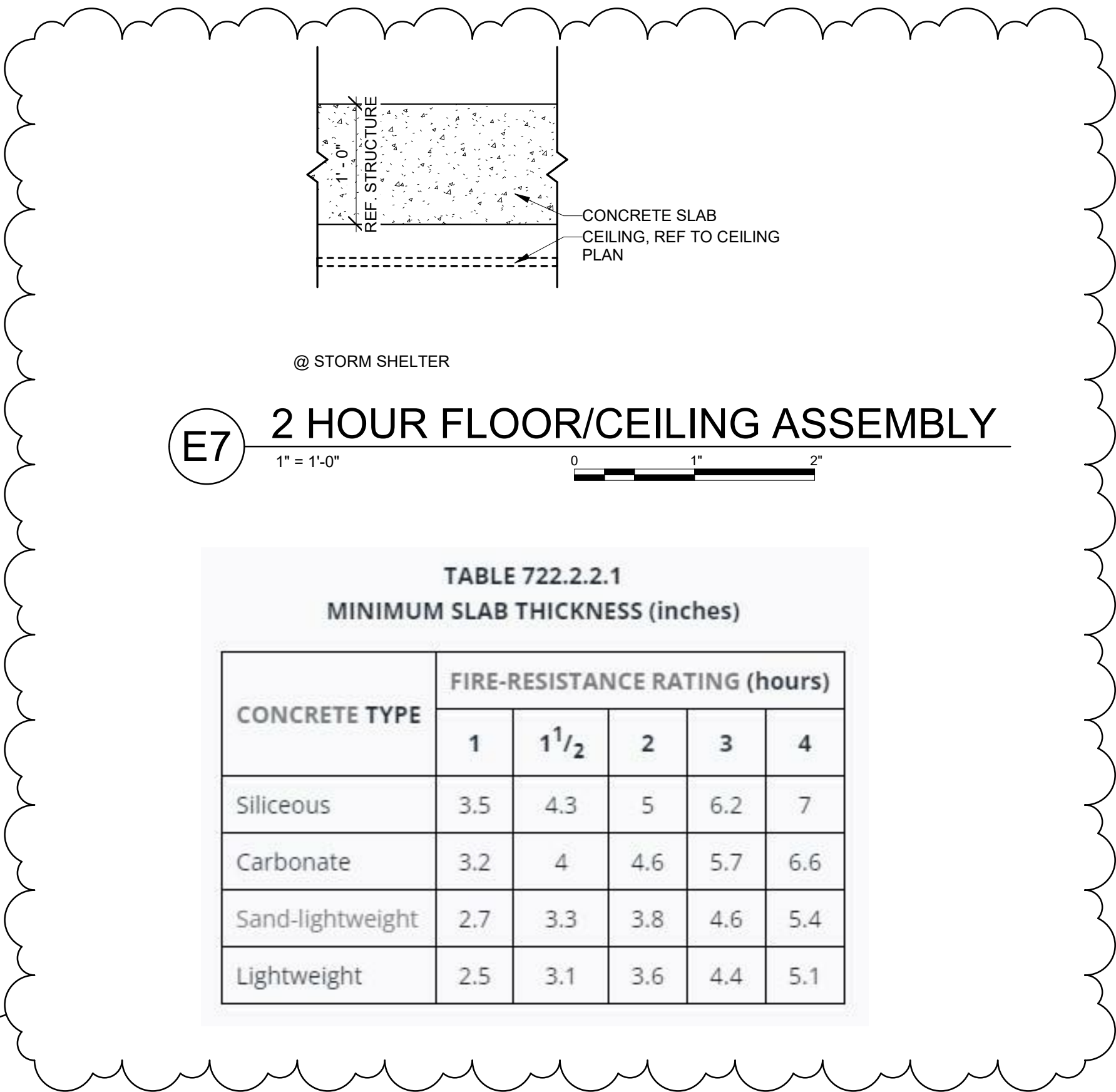
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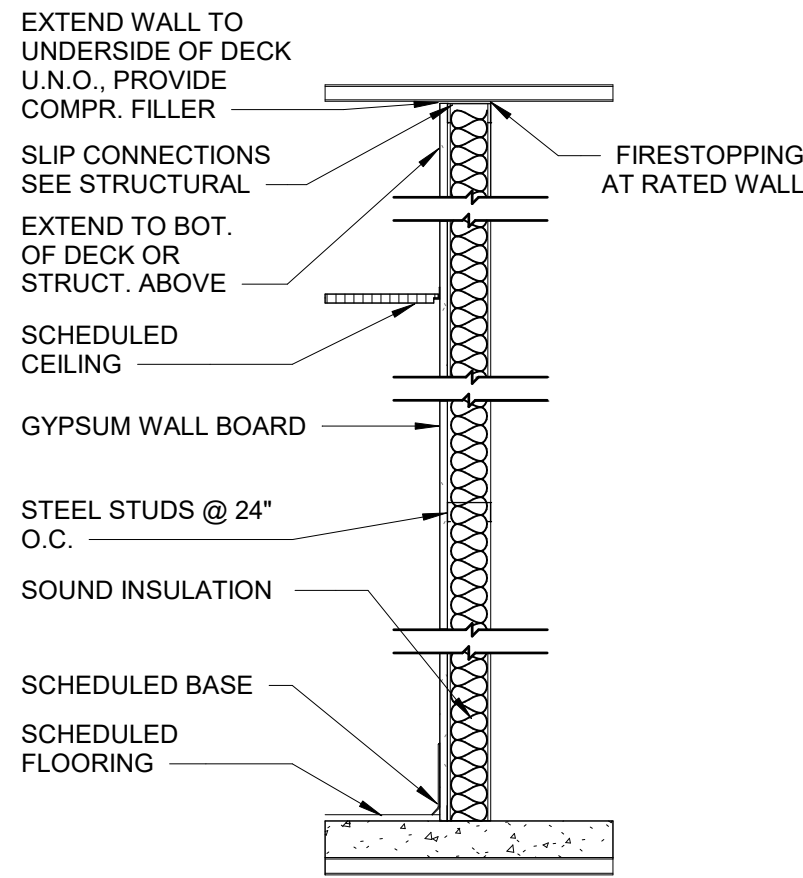
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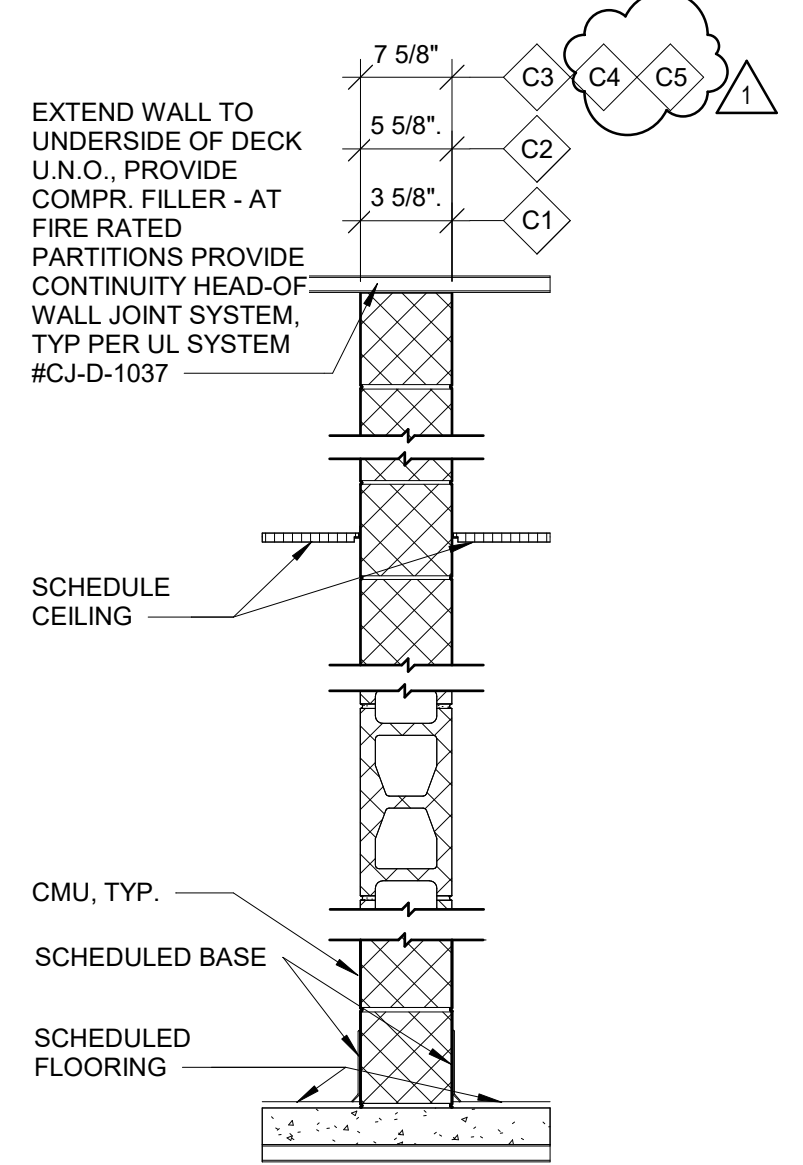
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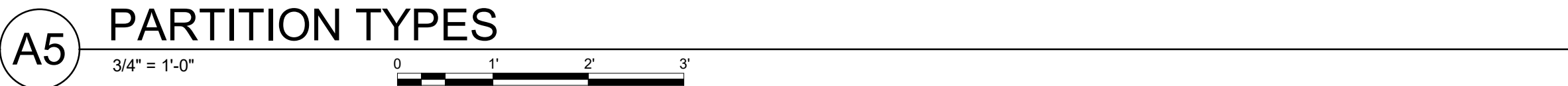
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- FINISH PER SCHEDULE
- A2** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419
- STC 48
- A3** 6" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB EACH SIDE
- FINISH PER SCHEDULE
- STC 44
- A4** 6" STEEL STUD PARTITION
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419
- A5** 6" STEEL STUD PARTITION
- 2 LAYERS 5/8" TYPE 'X' GWB ONE SIDE
- 1 LAYER 5/8" TYPE 'X' GWB ONE SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419



- B3** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB 1 SIDE
- B4** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB 1 SIDE
- B5** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB 1 SIDE



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



A5 PARTITION TYPES

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

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

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DATE: 11.21.2022
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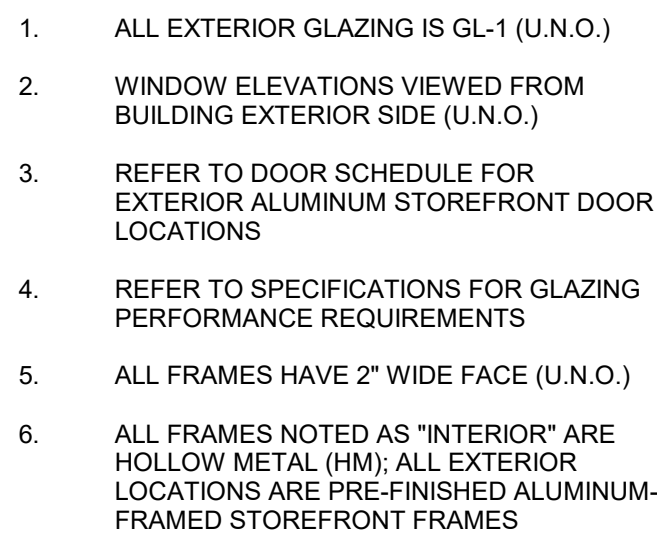
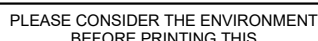
PARTITION TYPES

A-601

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**WINDOW
DETAILS**

A-611

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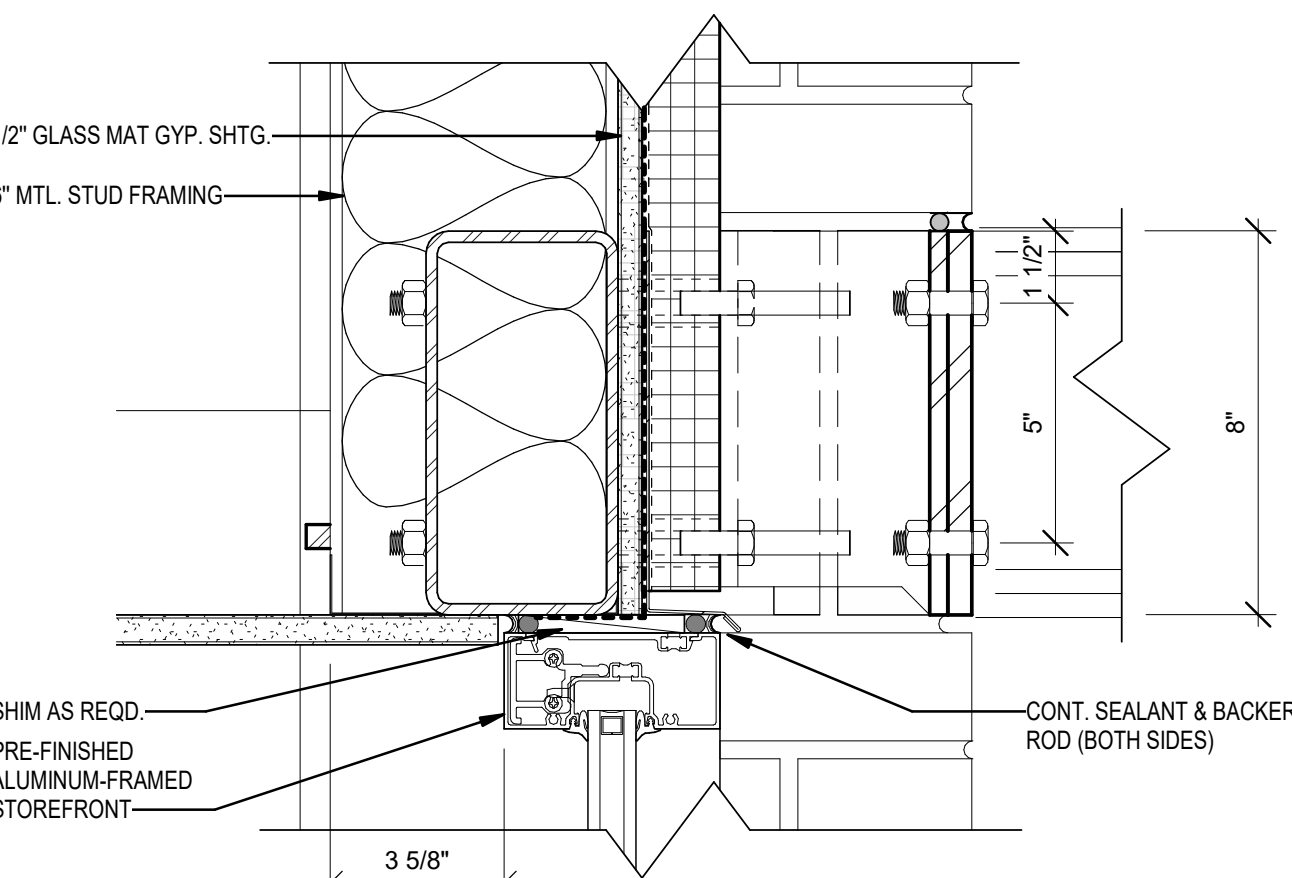
E

D

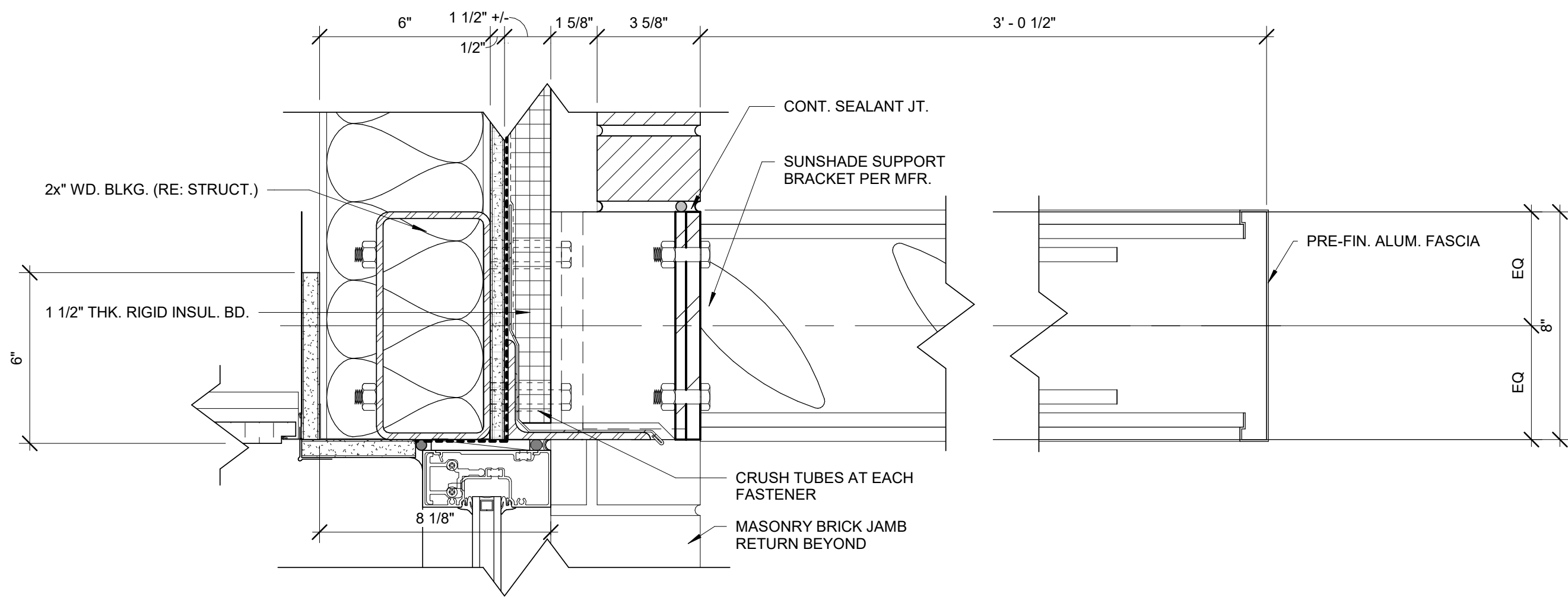
C

B

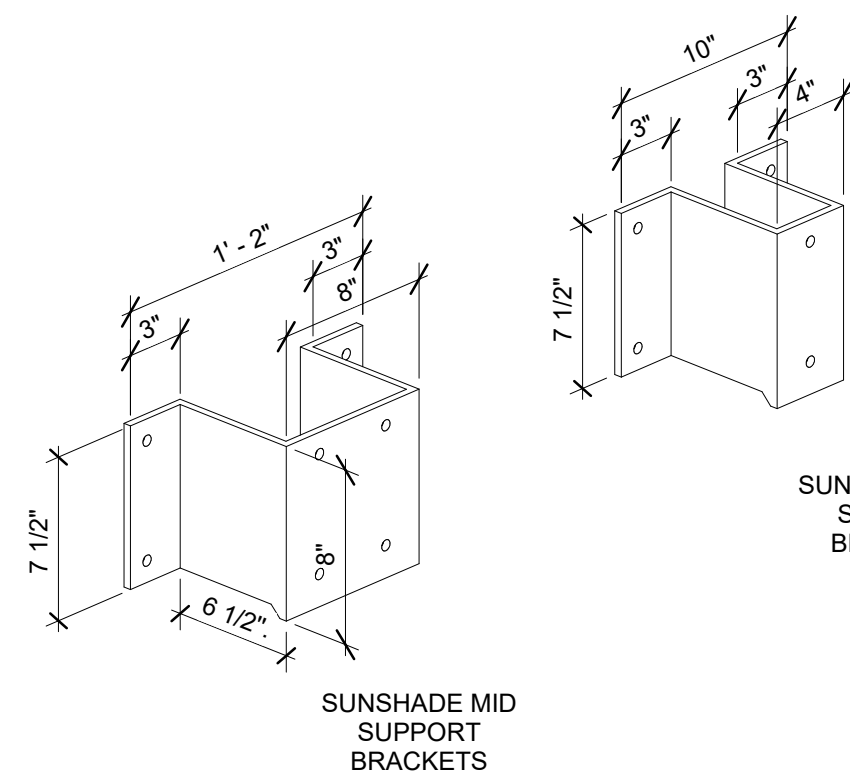
A



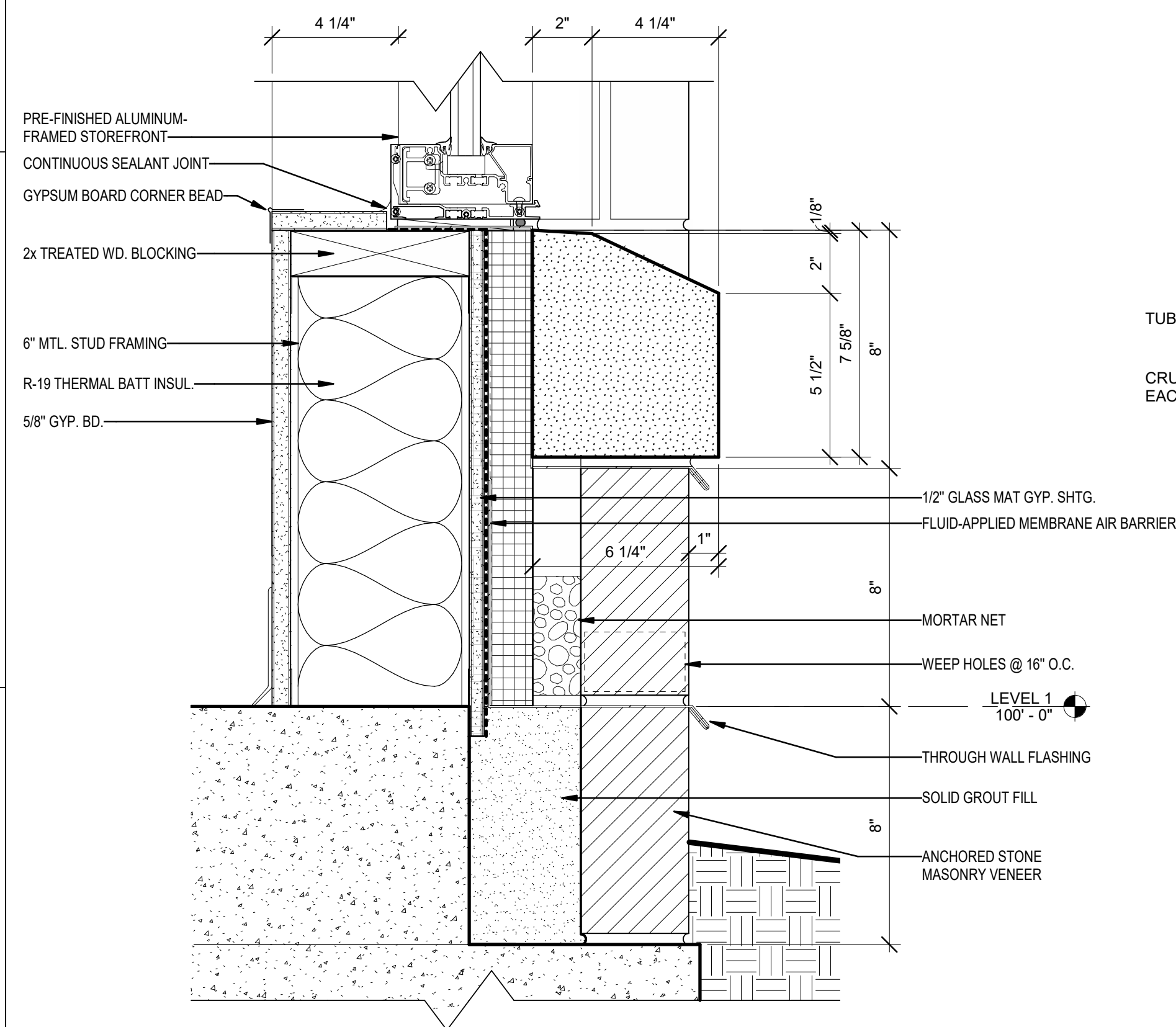
C1 WINDOW HEAD DETAIL @ EIFS
3" = 1'-0"



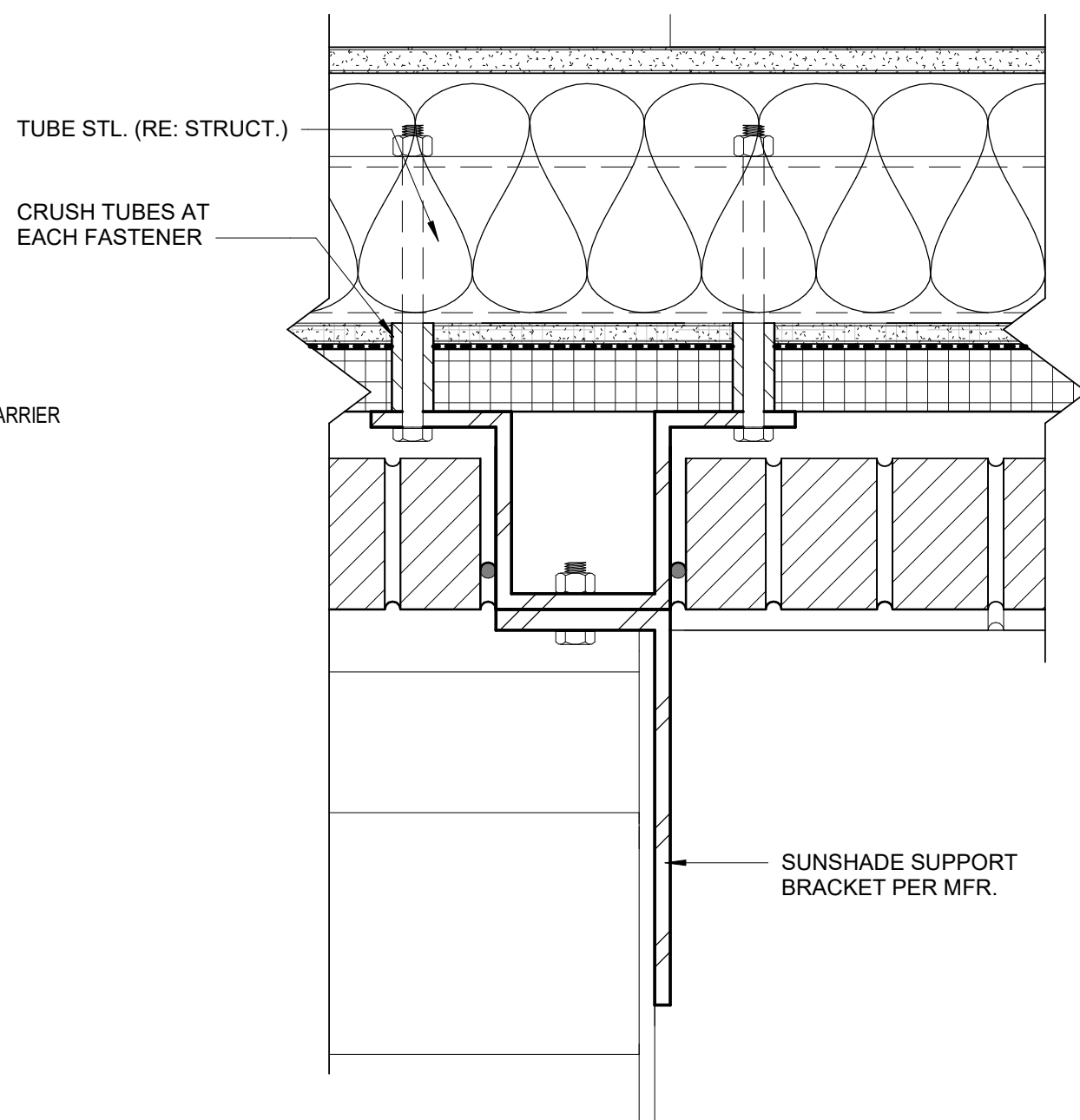
C4 WINDOW HEAD DETAIL @ MASONRY
3" = 1'-0"



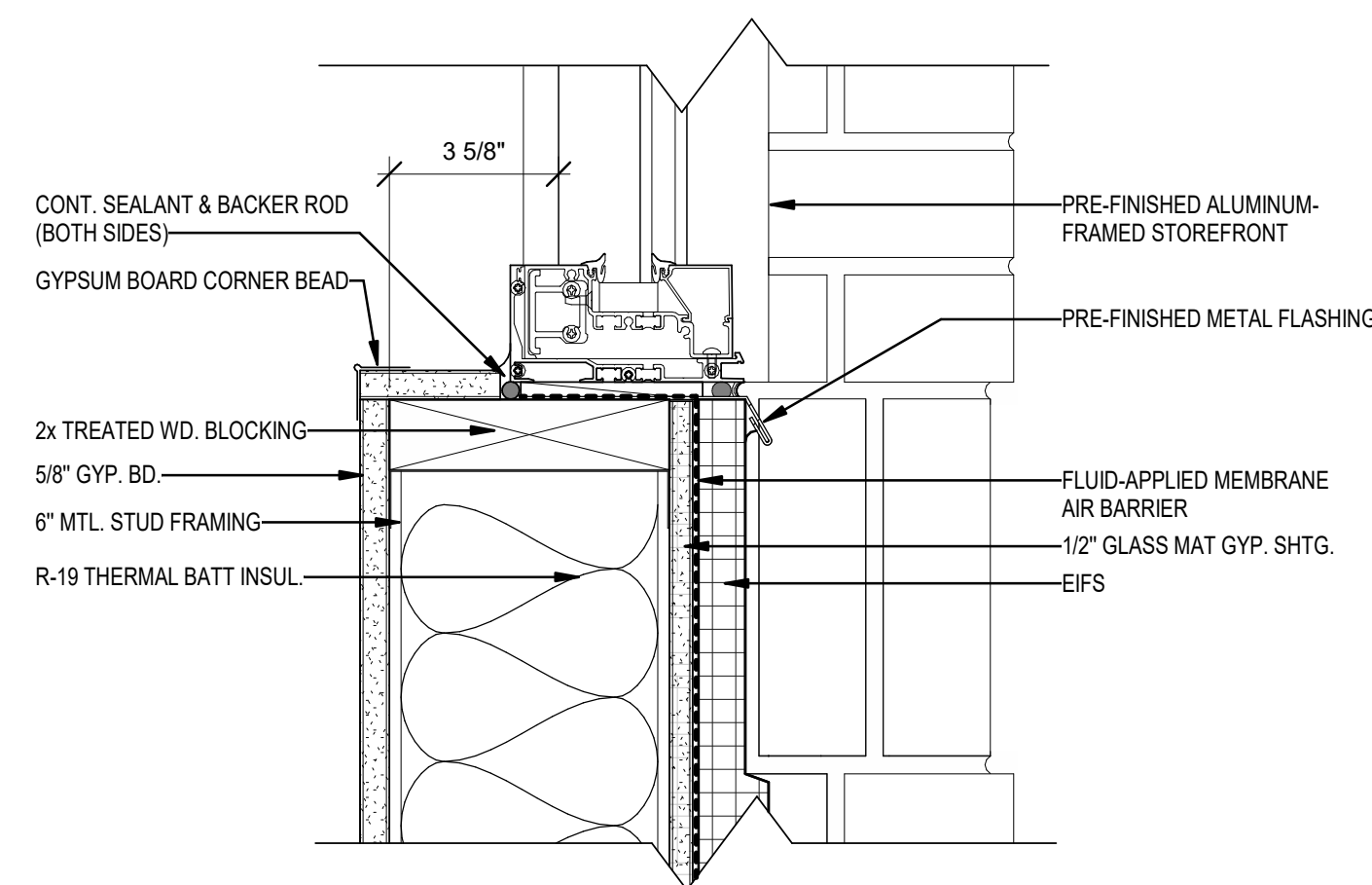
C7 SUNSHADE BRACKET
0 3" 6" 1' 1'-6"



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



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



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



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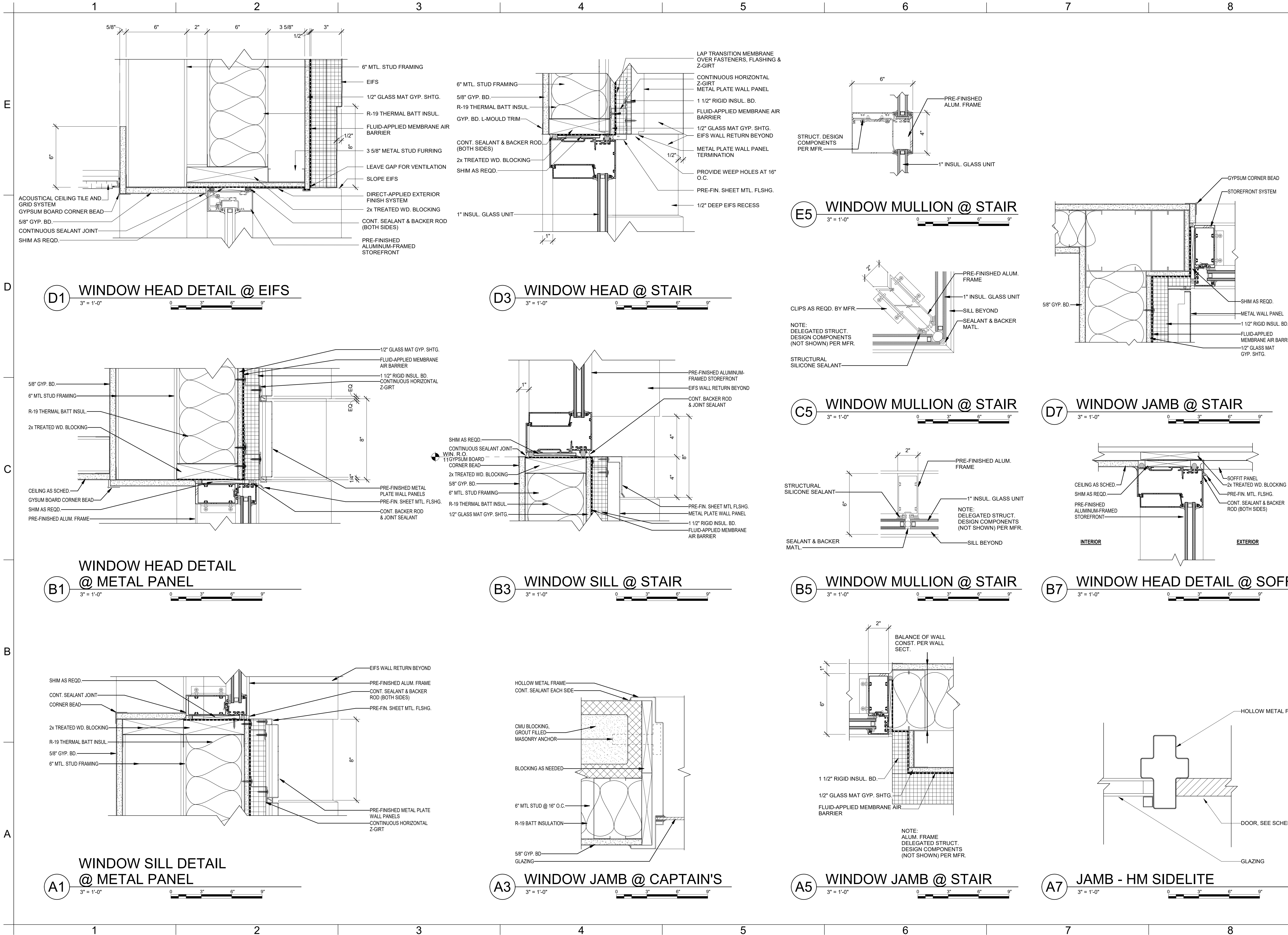
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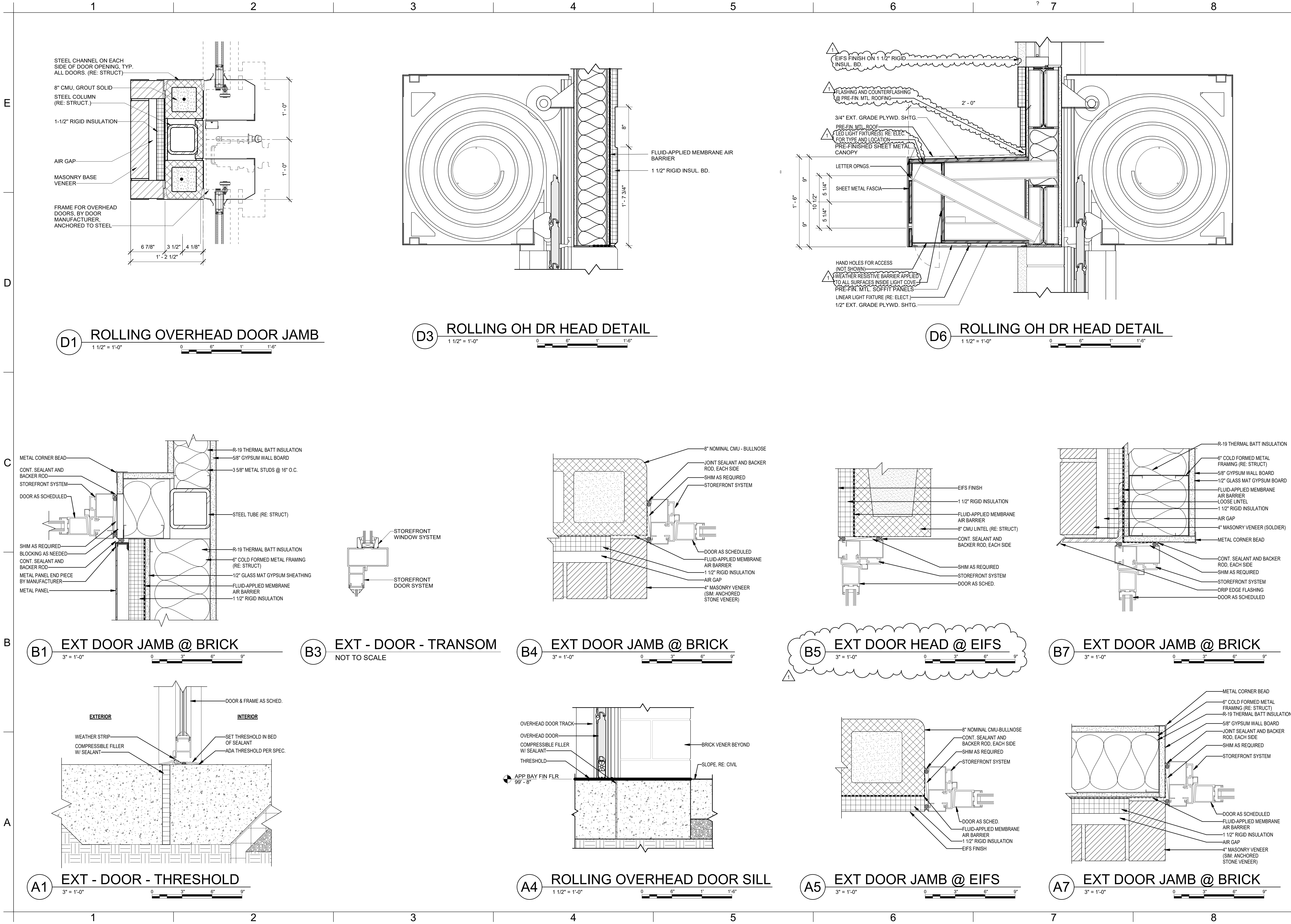
WINDOW DETAILS

A-612

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NUMBER
A-2009021701
11/21/22
ARCHITECT

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EXTERIOR DOOR DETAILS

A-613

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DOOR AND FRAME SCHEDULE

A-621

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GLAZING LEGEND

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

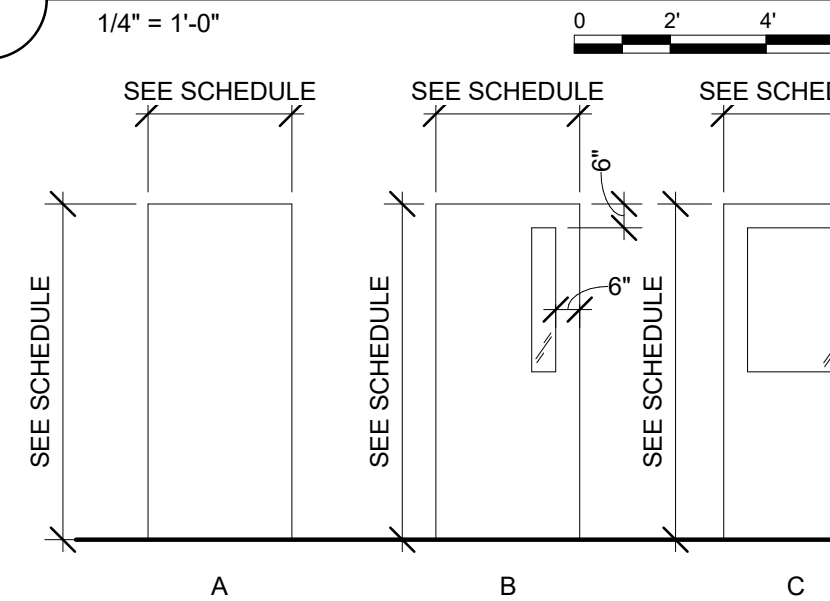
DOOR NOTES

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

DOOR HARDWARE NOTES:

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

DOOR FRAME LEGEND

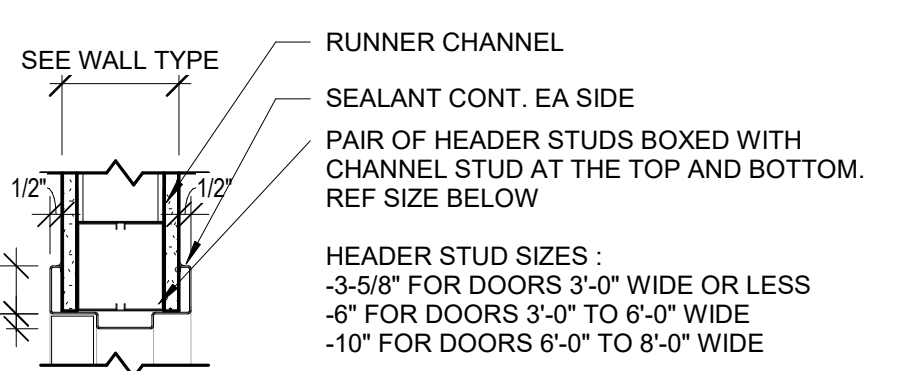


DOOR LEGEND

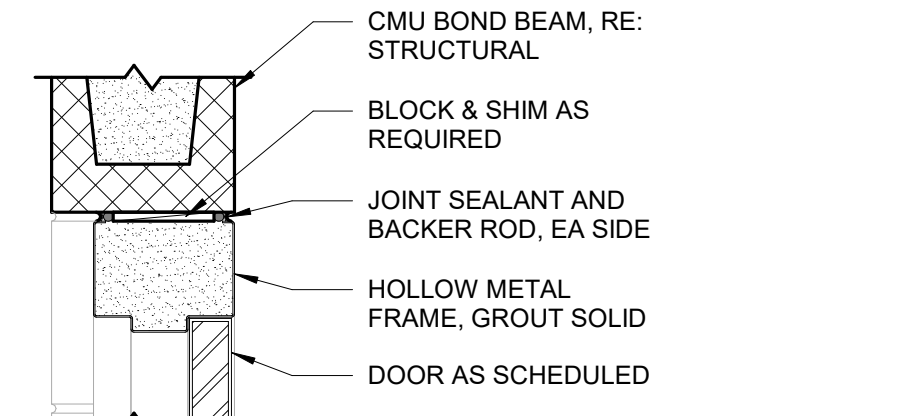
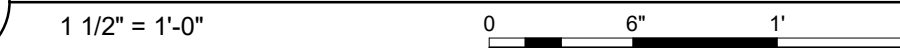


DOOR SCHEDULE

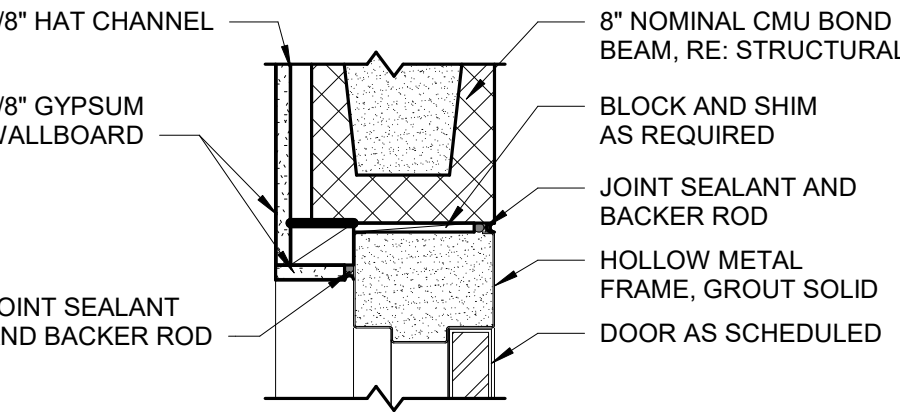
MARK	ROOM NAME	DOOR						FRAME			DETAIL			HWMR NOTES	REMARKS
		SIZE		TYPE	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL		
		WIDTH	HEIGHT												
100A	ENTRY VEST.	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	B3/A-613	B1/A-613	A1/A-613	HW-7	PANIC HARDWARE
100B	ENTRY VEST.	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	B1/A-621	B3/A-621	A7/A-622	HW-1	PANIC HARDWARE
101	PUBLIC TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	E7/A-622	HW-3	
103	ADMIN. TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	E7/A-622	HW-3	
105	TEL / RADIO	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	A5/A-622	HW-2	45 MIN FIRE RATING
106	CONF. RM.	3' - 0"	7' - 0"	D	SCW	STN	GL-2	1	HM	PTD	E1/A-621	E3/A-621	A5/A-622	HW-4	
108	CAPTAIN'S OFFICE	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621 & A7/A612	A5/A-622	HW-4	
109A	RAMP	3' - 0"	7' - 0"	C	SCW	PTD	GL-3	1	HM	PTD	E1/A-621	E3/A-621		HW-2	PANIC HARDWARE
109B	RAMP	3' - 0"	7' - 0"	D	ALUM	ANOD	-	ALUM	ANOD		B3/A-613	B4/A-613	A1/A-613	HW-1	PANIC HARDWARE
109C	APPARATUS BAY	3' - 0"	7' - 6"	C	HM	PTD	GL-2	1	HM	PTD	D1/A-621	D3/A-621	-	HW-1	
110	EMS STOR.	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2	
111	PPE / LOCKERS	3' - 0"	7' - 6"	A	STL	PTD	-	1	STL	PTD	B3/A-622	A3/A-622	-	HW-8	STORM SHELTER - 2 HR. FIRE RATING
112A	DECON	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2	
112B	DECON	3' - 0"	7' - 6"	A	STL	PTD	-	1	STL	PTD	B3/A-622	A3/A-622	-	HW-8	STORM SHELTER- 2 HR. FIRE RATING
113A	DECON TOIL.	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-3	
113B	DECON TOIL.	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	B3/A-622	A3/A-622	-	HW-8	STORM SHELTER - 2 HR. FIRE RATING
114A	RAMP	3' - 6"	7' - 0"	C	SCW	PTD	GL-3	1	HM	PTD	E1/A-621	E3/A-621	-	HW-2	PANIC HARDWARE
114B	RAMP	3' - 0"	7' - 6"	D	ALUM	ANOD	GL-1	2	ALUM	ANOD	B3/A-613	A7/A-613	A1/A-613	HW-1	PANIC HARDWARE
114C	APPARATUS BAY	3' - 0"	7' - 6"	C	HM	PTD	GL-2	1	HM	PTD	D1/A-621	D3/A-621	-	HW-1	
115	JAN.	3' - 0"	7' - 0"	A	HM	PTD	-	1	HM	PTD	E1/A-621	E3/A-621	-	HW-2	
116A	KITCHEN	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	1	ALUM	ANOD	B3/A-613	A7/A-613	A1/A-613	HW-1	PANIC HARDWARE
116B	KITCHEN	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-2	1	ALUM	ANOD	B3/A-613	A7/A-613 & B3/A-621	A1/A-613	HW-1	PANIC HARDWARE
119A	APPARATUS BAY	14' - 0"	14' - 0"								D6/A-613	D1/A-613	A4/A-613		FOUR FOLD DOOR
119B	APPARATUS BAY	14' - 0"	14' - 0"								D6/A-613	D1/A-613	A4/A-613		FOUR FOLD DOOR
119C	APPARATUS BAY	14' - 0"	14' - 0"								D6/A-613	D1/A-613	A4/A-613		FOUR FOLD DOOR
119D	APPARATUS BAY	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	1	ALUM	ANOD	B3/A-613	B4/A-613 SIM. & A5/A-613	A1/A-613	HW-1	PANIC HARDWARE
119E	APPARATUS BAY	3' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	1	ALUM	ANOD	B3/A-613	B4/A-613 SIM. & A5/A-613	A1/A-613	HW-1	PANIC HARDWARE
119F	APPARATUS BAY	14' - 0"	14' - 0"								D3/A-613	D1/A-613	A4/A-613		HIGH SPEED OVERHEAD
119G	APPARATUS BAY	14' - 0"	14' - 0"								D3/A-613	D1/A-613	A4/A-613		HIGH SPEED OVERHEAD
119H	APPARATUS BAY	14' - 0"	14' - 0"								D3/A-613	D1/A-613	A4/A-613		HIGH SPEED OVERHEAD
120	UTILITY	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2	
121A	SHOP	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2	
121B	SHOP	3' - 0"	7' - 6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2	
122A	EXERCISE / WELLNESS	3' - 0"	7' - 6"	C	HM	PTD	GL-2	1	HM	PTD	D1/A-621	D3/A-621	A5/A-622	HW-2	
122B	EXERCISE / WELLNESS	6' - 0"	7' - 0"	D	ALUM	ANOD	GL-1	2	ALUM	ANOD	B3/A-613	B3/A-621	A1/A-613	HW-7	DOOR PAIR
200	CORRIDOR	3' - 0"	7' - 0"	B	SCW	STN	GL-2	1	HM	PTD	E1/A-621	E3/A-621	B7/A-622	HW-2	PANIC HARDWARE
202	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2	
202A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
202B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR
203	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2	
203A	CAPTAIN'S BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
203B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR
204B	MEZZANINE	3' - 0"	7' - 0"	B	SCW	STN	GL-2	2	HM	PTD	E1/A-621	E3/A-621	A5/A-622	HW-2	
205	LAUNDRY/JAN.	3' - 0"	7' - 0"	A	SCW	STN	-	2	HM	PTD	C1/A-621	C3/A-621	D7/A-622	HW-2	
206	MECH.	3' - 0"	7' - 0"	B	SCW	STN	GL-2	2	HM	PTD	C1/A-621	C3/A-621	A5/A-622	HW-2	
207	GENERAL STORAGE	3' - 0"	7' - 0"	A	SCW	STN	-	2	HM	PTD	C1/A-621	C3/A-621	A5/A-622	HW-2	
208	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2	
208A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
208B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR
209	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2	
209A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
209B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR
210	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2	
210A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
210B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR
211	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2	
211A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
211B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR
212	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2	
212A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
212B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR
213	LOCKERS	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2	
213A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
213B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-		HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR



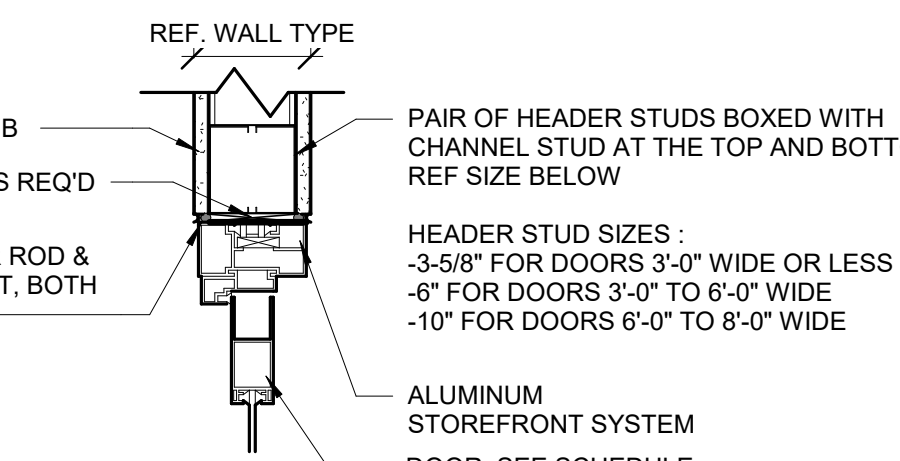
DOOR - HEAD @ INT METAL STUD WALL



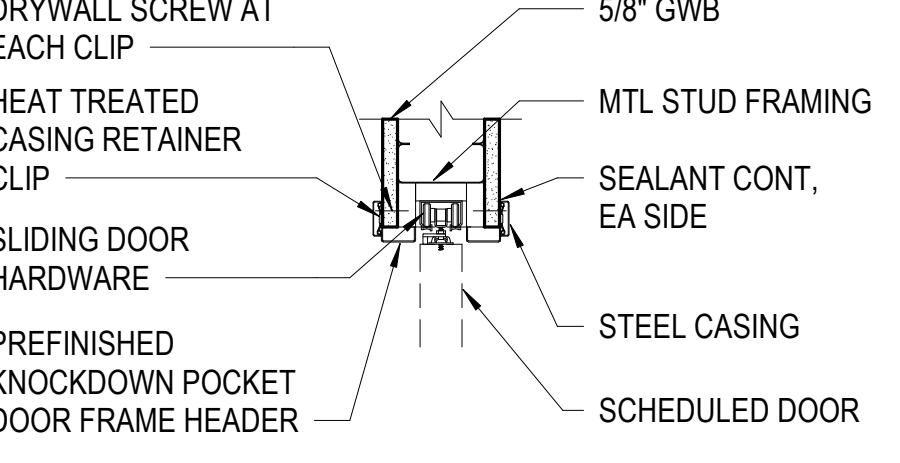
DOOR - HEAD @ INT 8" CMU



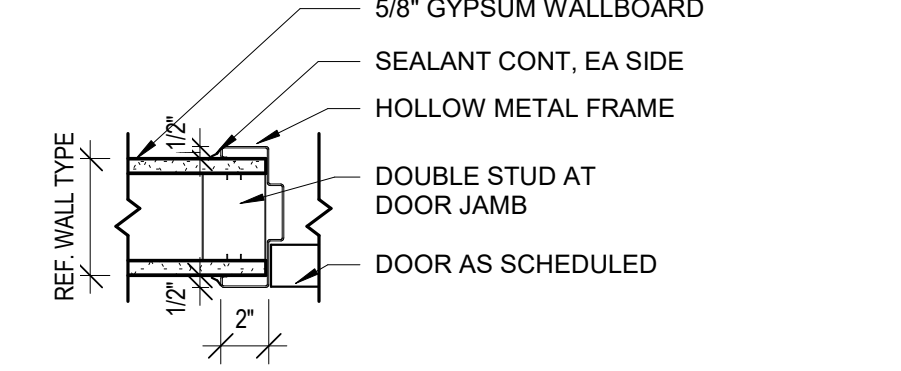
DOOR - HEAD @ INT 8" CMU W/ FURRING 1 SIDE



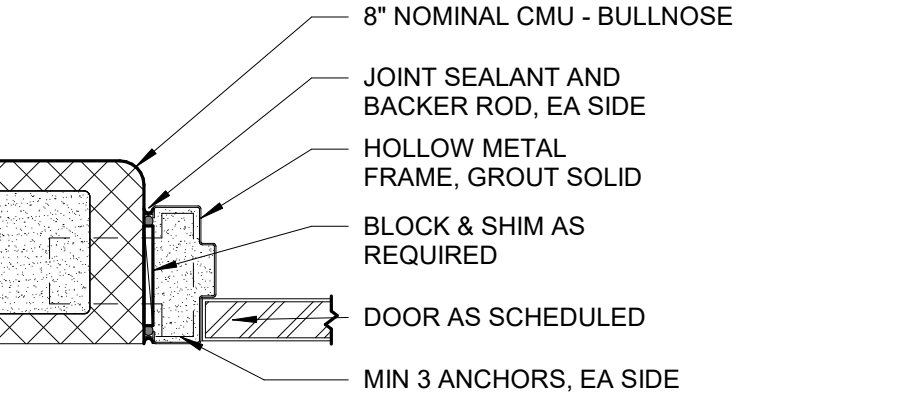
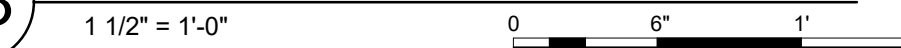
HEAD - STOREFRONT



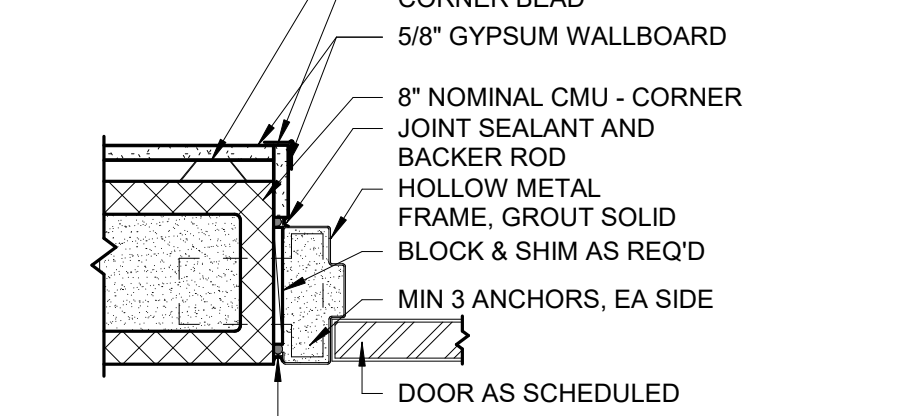
DOOR HEAD DETAIL - POCKET



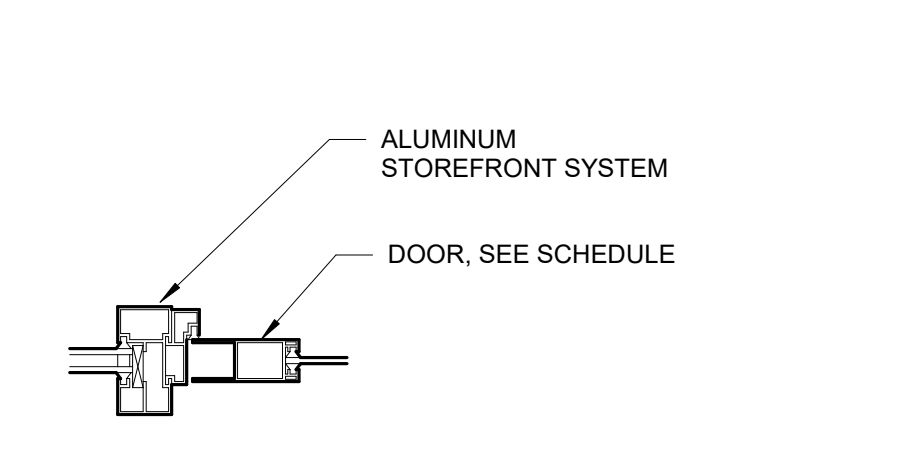
DOOR - JAMB @ INT METAL STUD WALL



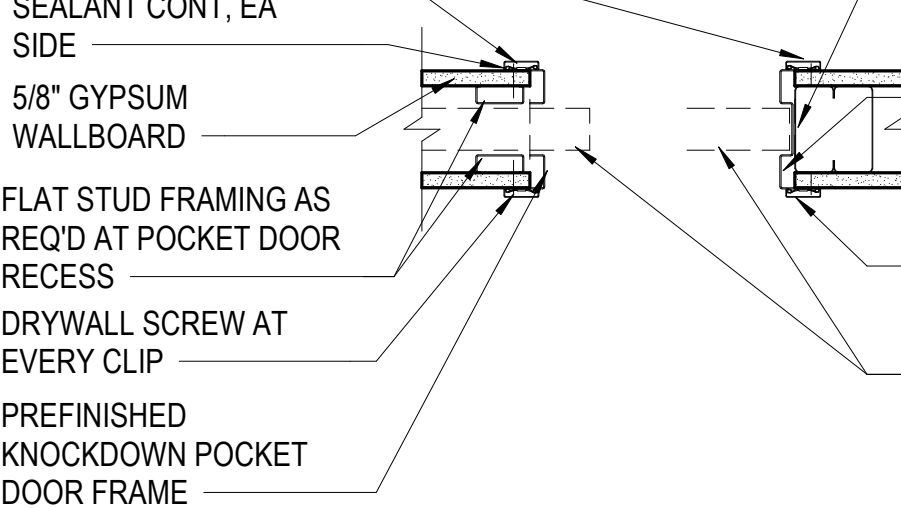
DOOR - JAMB @ INT 8" CMU



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



JAMB - STOREFRONT



DOOR JAMB DETAIL - POCKET



FILE PATH: BIM 360://18225R21001_Lee'sSummitFireStation_# 4 and #5LSMO_FIRE STATION 5.rvt

E

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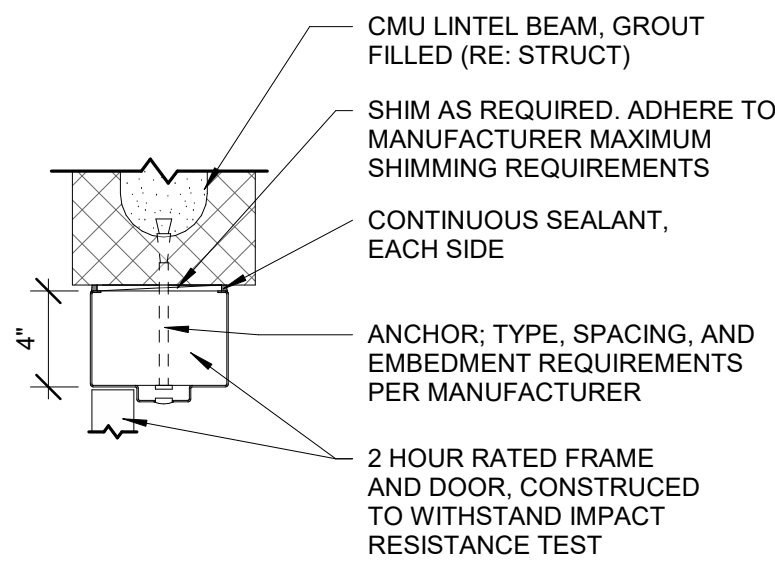
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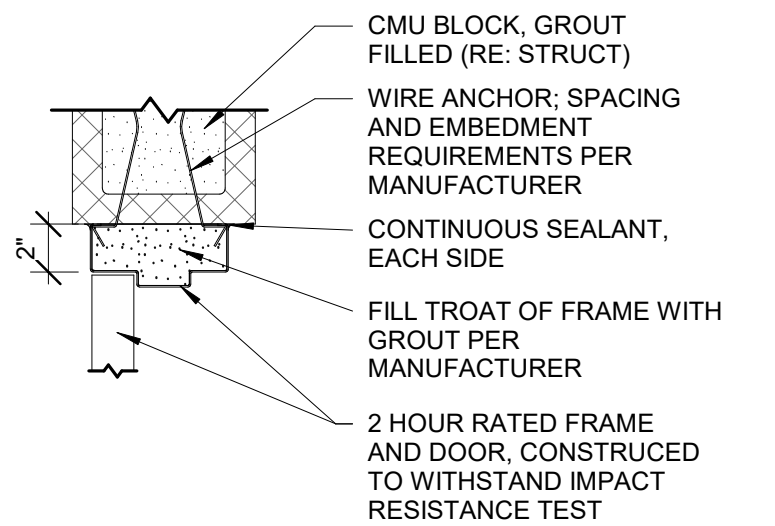
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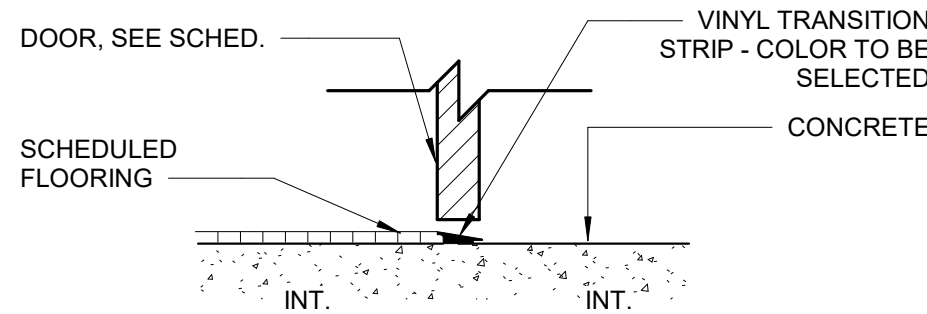
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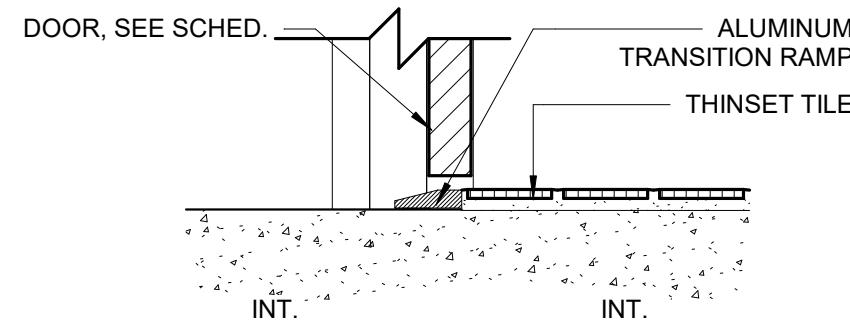
B3 DOOR HEADER
STORM SHELTER



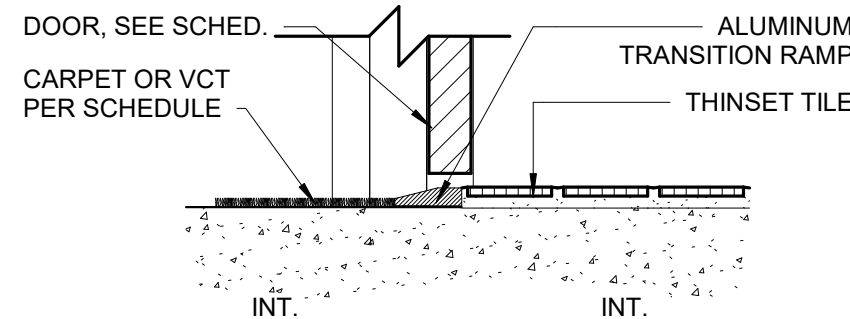
A3 DOOR JAMB
STORM SHELTER



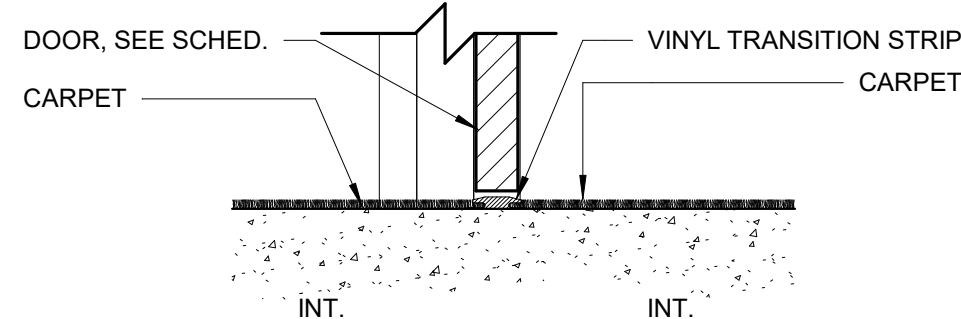
A5 THRESHOLD -
INT CONC TO CPT, VCT, RF



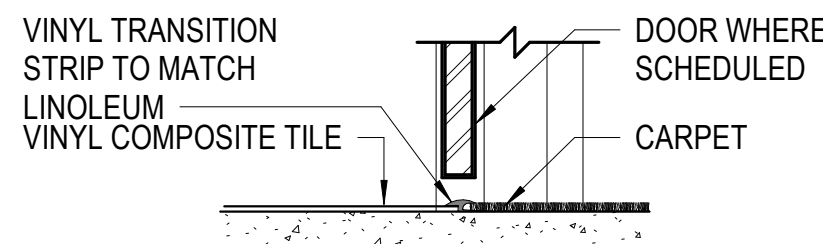
E7 THRESHOLD - CONC TO TILE



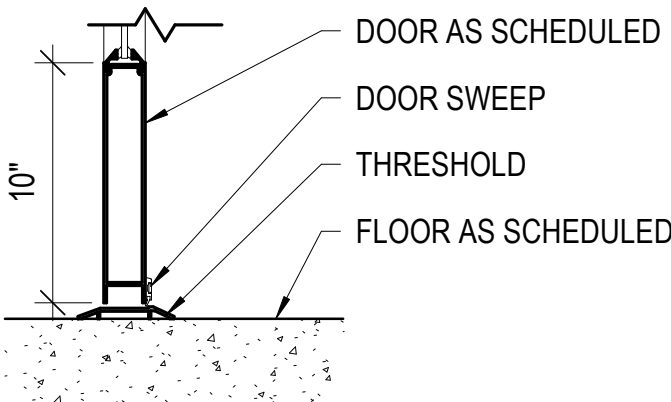
D7 THRESHOLD - CPT, LVT, VCT
TO TILE



C7 THRESHOLD -
CPT TO CPT



B7 THRESHOLD - VCT TO CPT



A7 STOREFRONT - SILL - DOOR



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MISSOURI STATE CERTIFICATE OF AUTHORITY
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SECURITY & IT ENGINEERS
HENDERSON ENGINEERS
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1801 MAIN STREET, SUITE 300
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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

REVISIONS:

#	Description	Date
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PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

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DOOR DETAILS

A-622

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

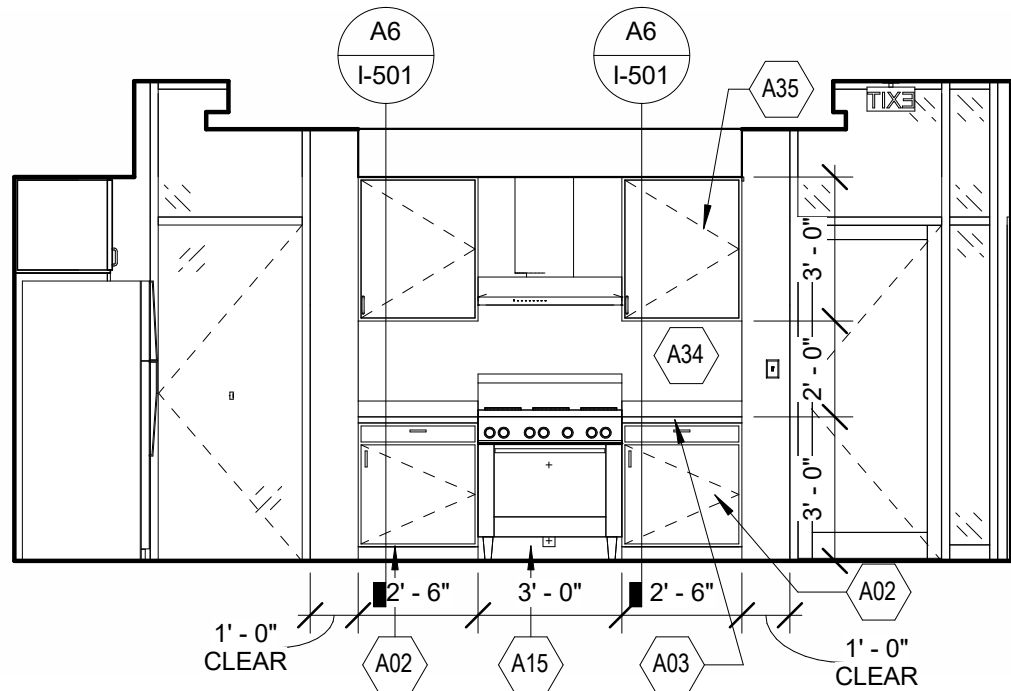
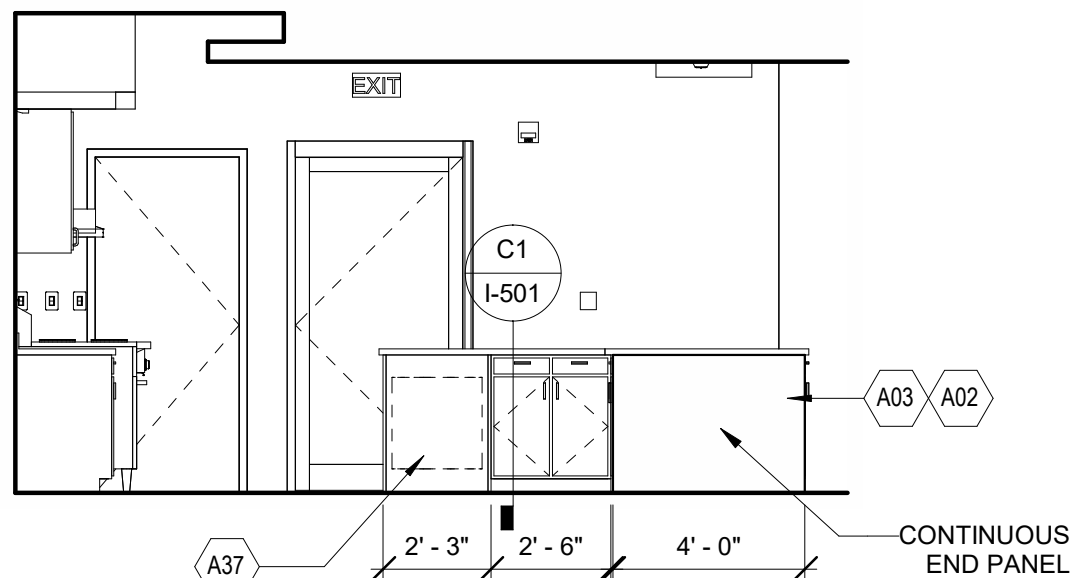
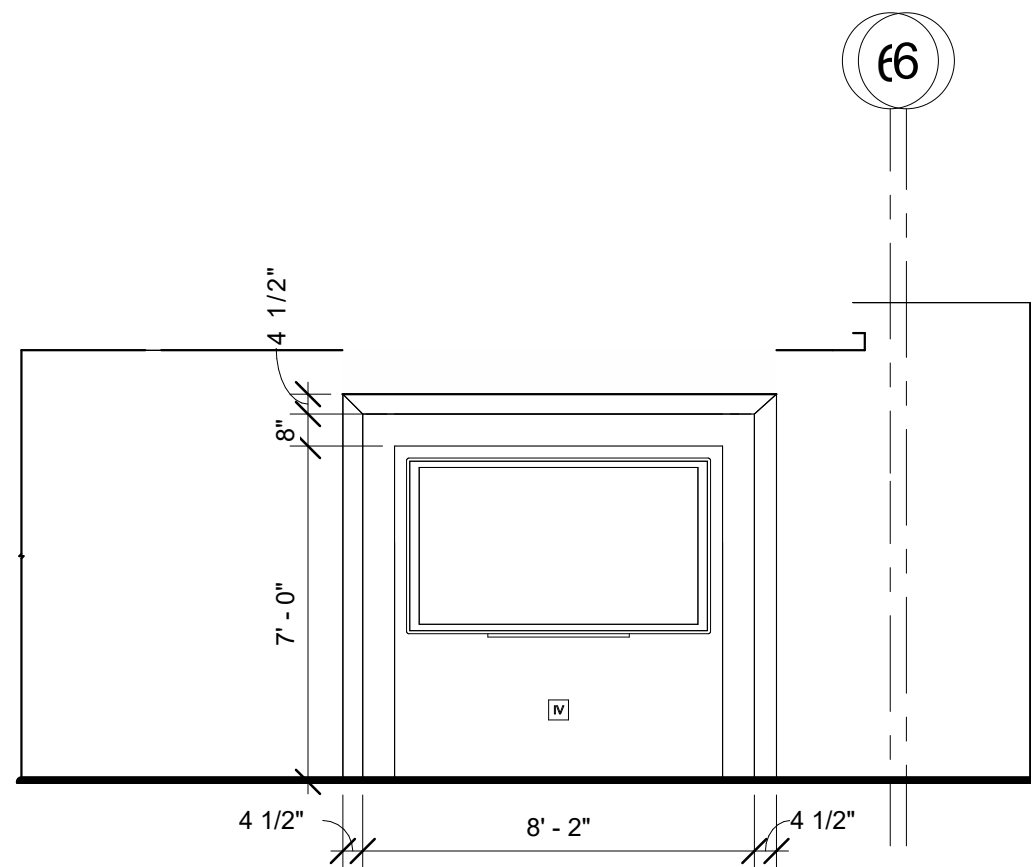
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Note Number	Note Description
A02	PLYBOO BASE CABINETS
A03	QUARTZ COUNTERTOP
A05	GEAR DRYER RACK (HEAVY-DUTY HANGING ROD) W/WIRE SHELF ABOVE ROD
A08	5-TIER METAL PERSONAL LOCKERS
A11	HEAVY-DUTY RESIDENTIAL WASHER, OFCI
A12	HEAVY-DUTY RESIDENTIAL DRYER,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

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

DAY ROOM ELEVATION

1/4" = 1'-0"

KITCHEN NORTH ELEVATION

1/4" = 1'-0"

KITCHEN WEST ELEVATION

1/4" = 1'-0"

CONF. ROOM EAST ELEVATION

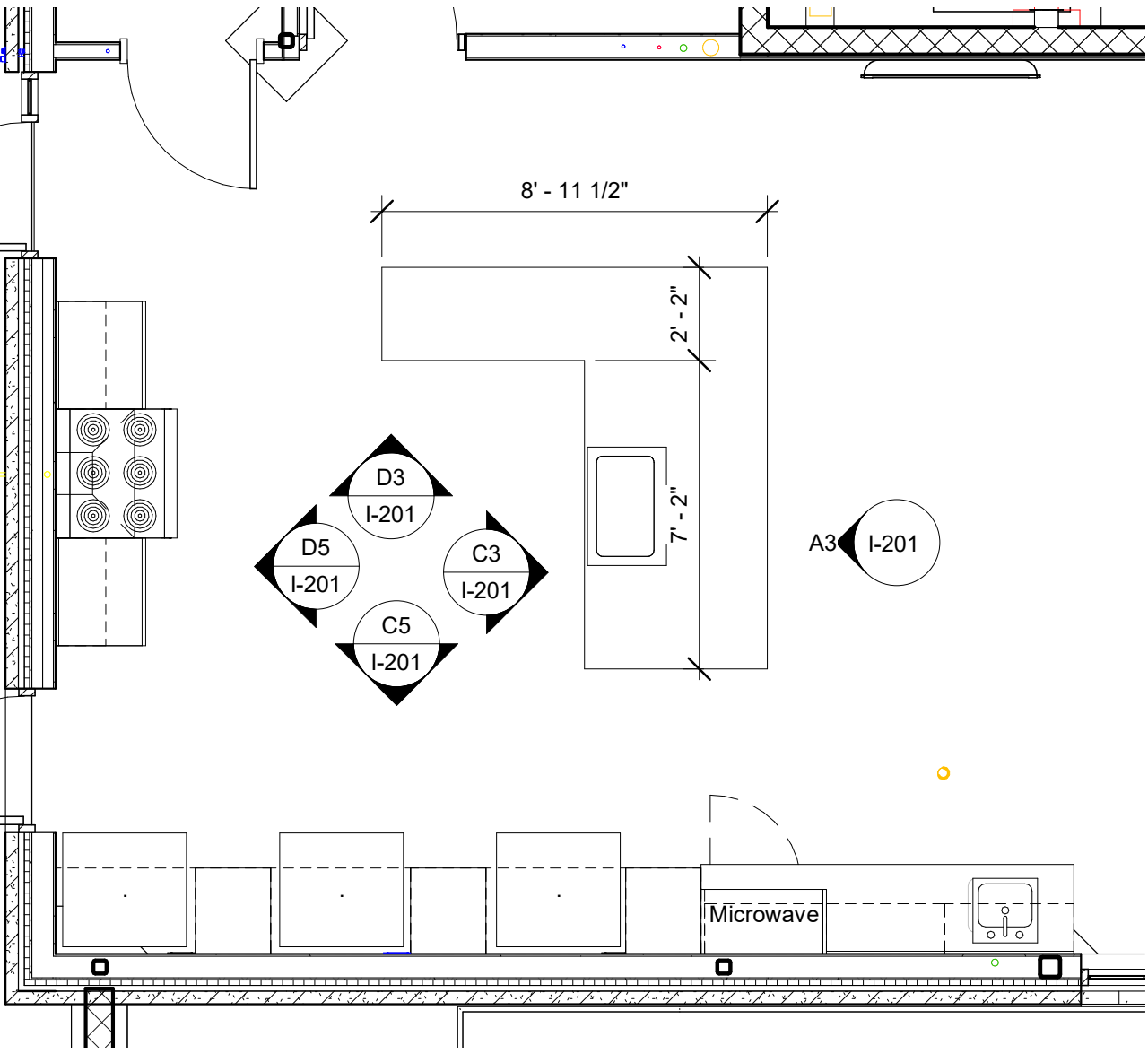
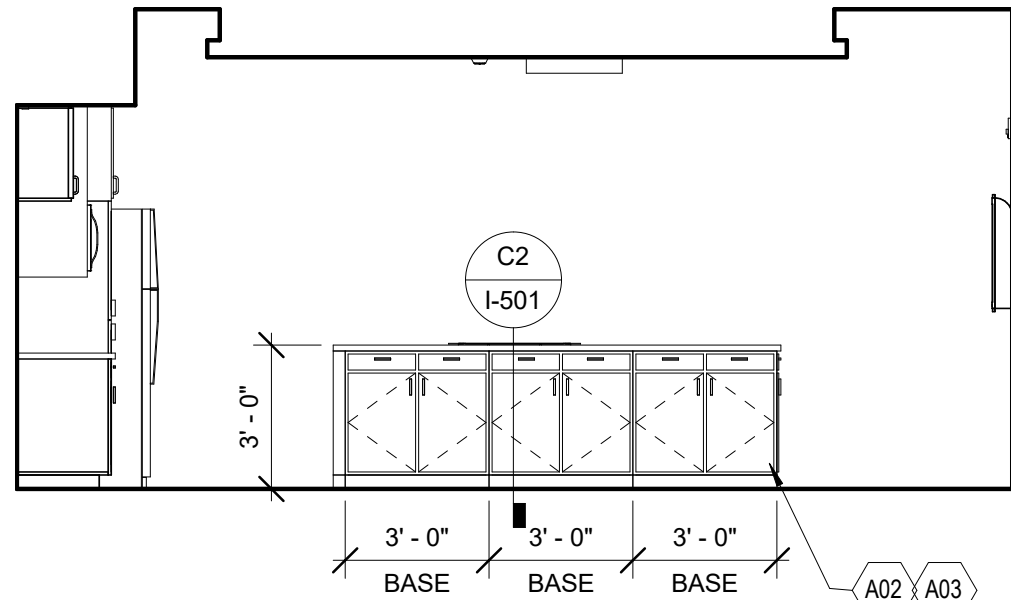
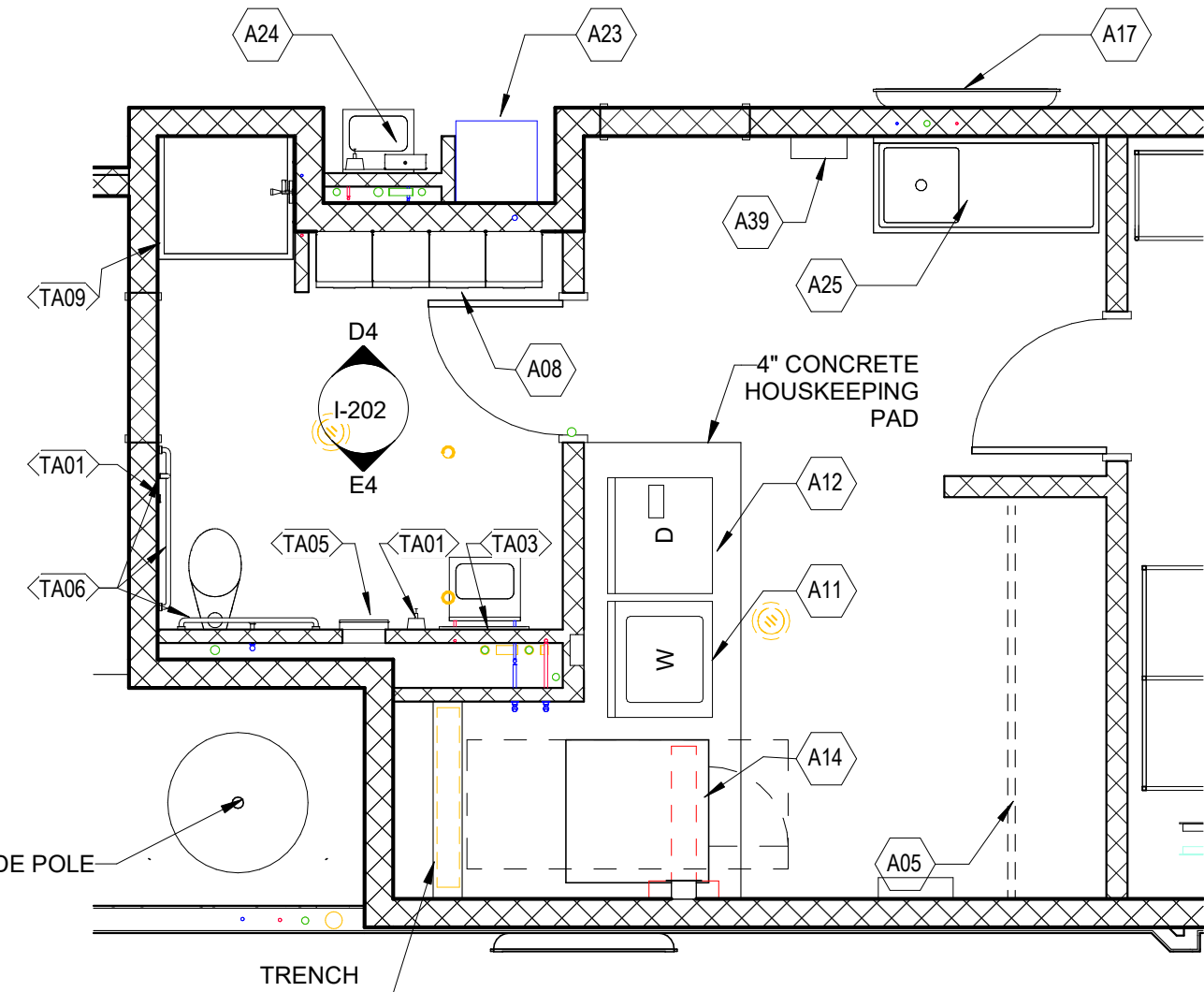
1/4" = 1'-0"

KITCHEN ISLAND EAST ELEVATION

1/4" = 1'-0"

KITCHEN SOUTH ELEVATION

1/4" = 1'-0"



DECON ENLARGED FLOOR PLAN

1/4" = 1'-0"

KITCHEN ISLAND WEST ELEVATION

1/4" = 1'-0"

KITCHEN ENLARGED PLAN

1/4" = 1'-0"

IBC 1109.11 SEATING AT WORK TABLES, COUNTERS AND WORK SURFACES

- TOTAL COUNTER TOP SURFACE AREA: 76.82 S.F
- ACCESSIBLE COUNTER TOP SURFACE AREA: 17.51 S.F
- MIN. REQUIREMENT = 5% (3.84 S.F.)
- PROVIDED = 22.8 % (17.51 S.F.)



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

#	Description	Date
1	ASB 01	11/21/2022



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

INTERIOR
DESIGN
ELEVATIONS

I-201

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

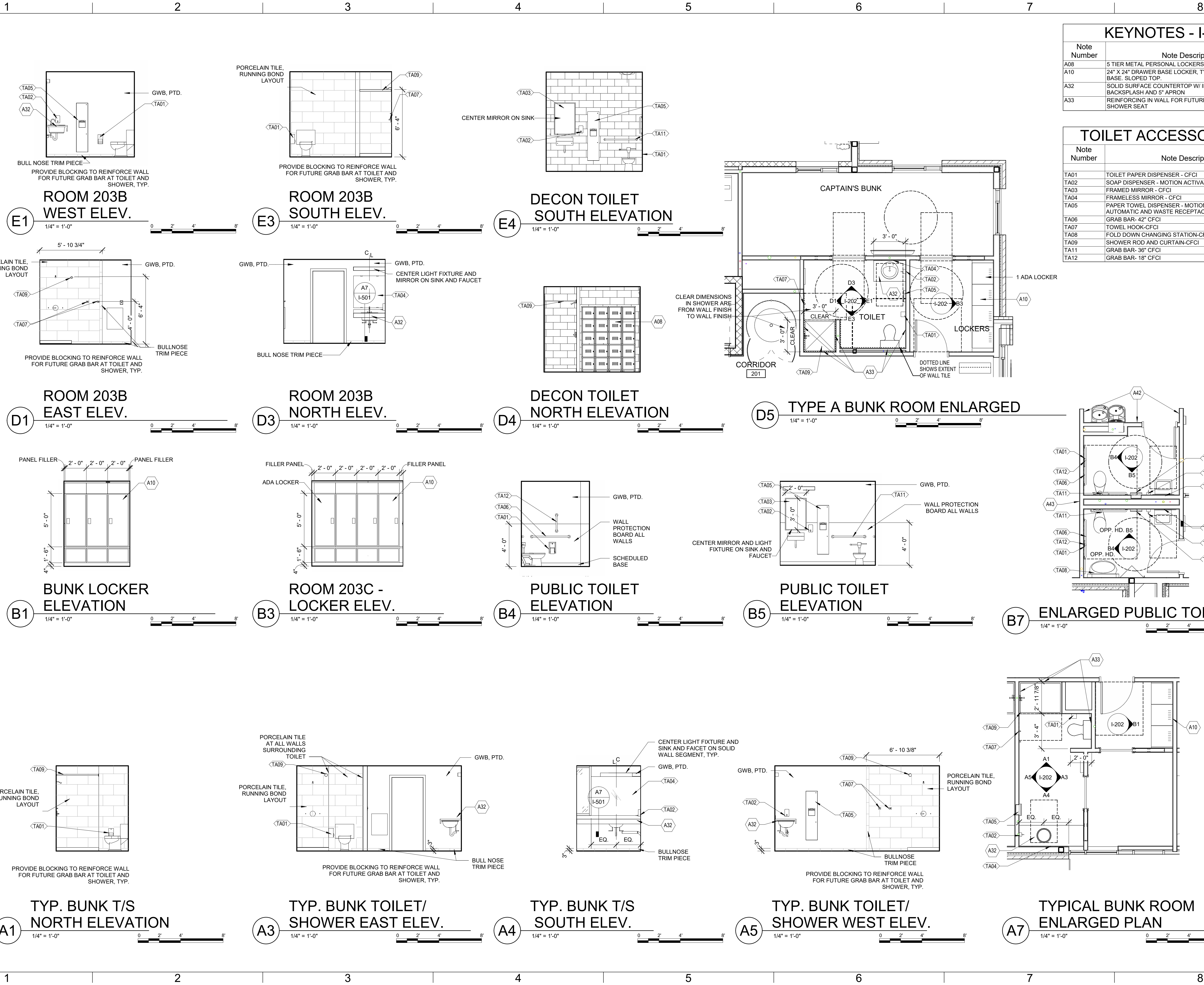
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KEYNOTES - I-202	
Note Number	Note Description
A08	5 TIER METAL PERSONAL LOCKERS
A10	24" X 24" DRAWER BASE LOCKER, TYP. ON 4" CONCRETE BASE, SLOPED TOP.
A32	SOLID SURFACE COUNTERTOP W/ INTEGRAL 4" BACKSPLASH AND 5" APRON
A33	REINFORCING IN WALL FOR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

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

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

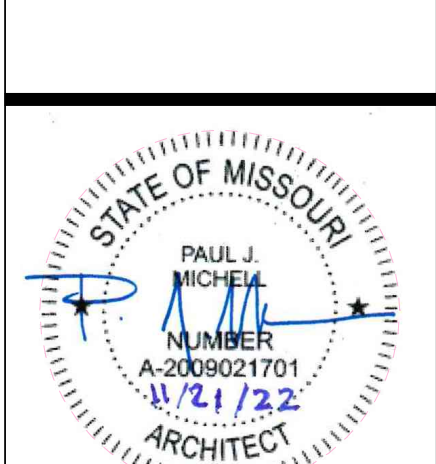
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(816) 663-8700

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

REVISIONS:		
#	Description	Date

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

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**INTERIOR
DESIGN
ELEVATIONS**

I-202

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FILE PATH: BM 360 // 18225R21001_Lee'sSummitFireStation_#4 and #5LSMO_FIRE STATION 5.rvt

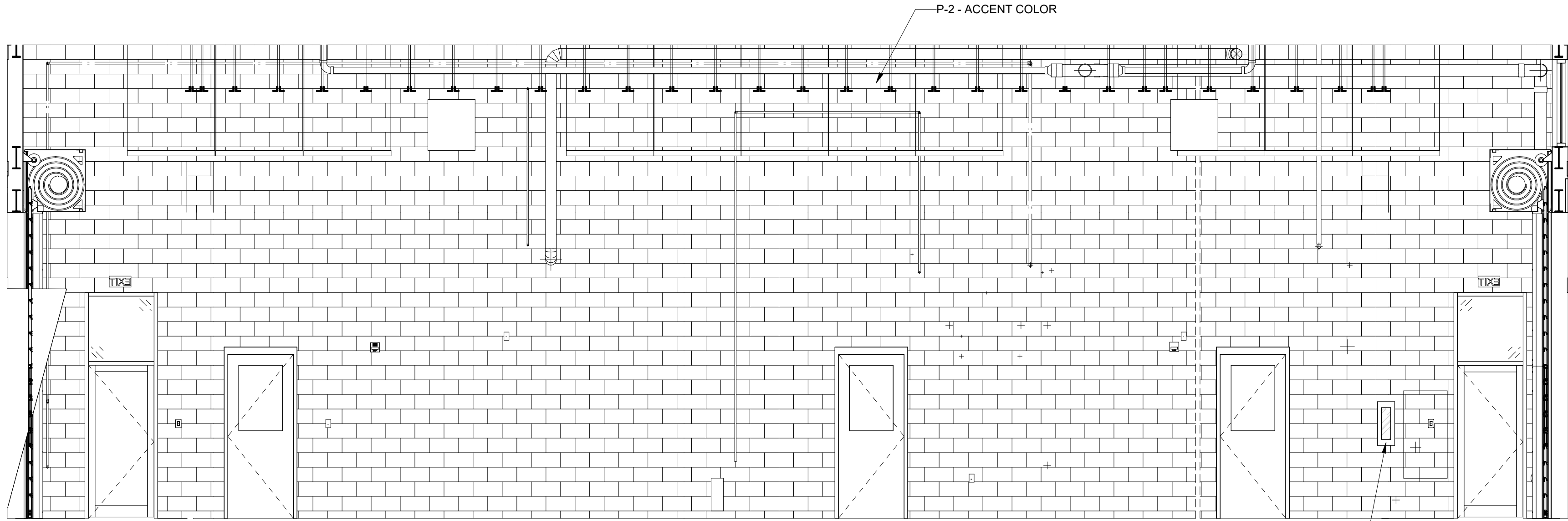
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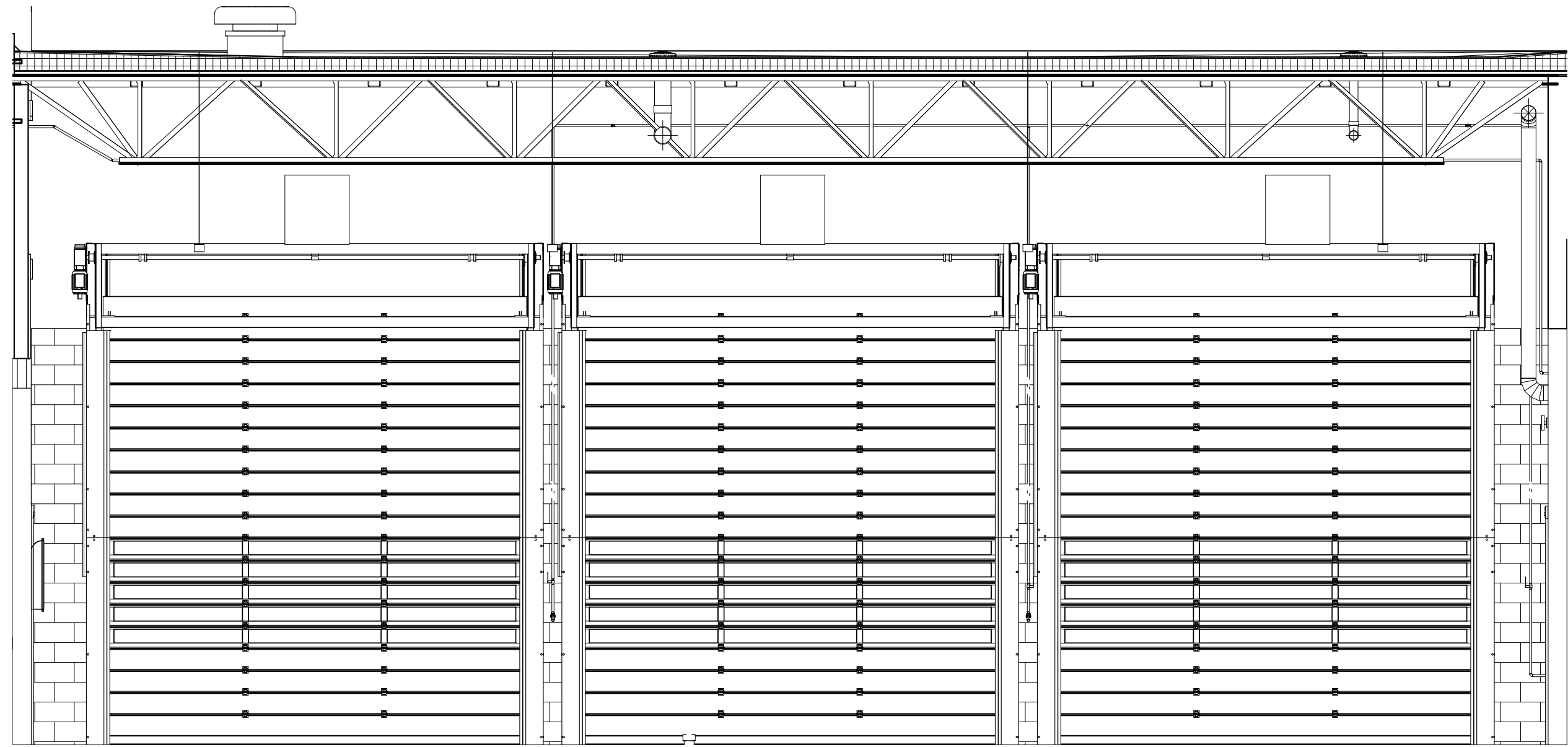


D2 APPARATUS BAY NORTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

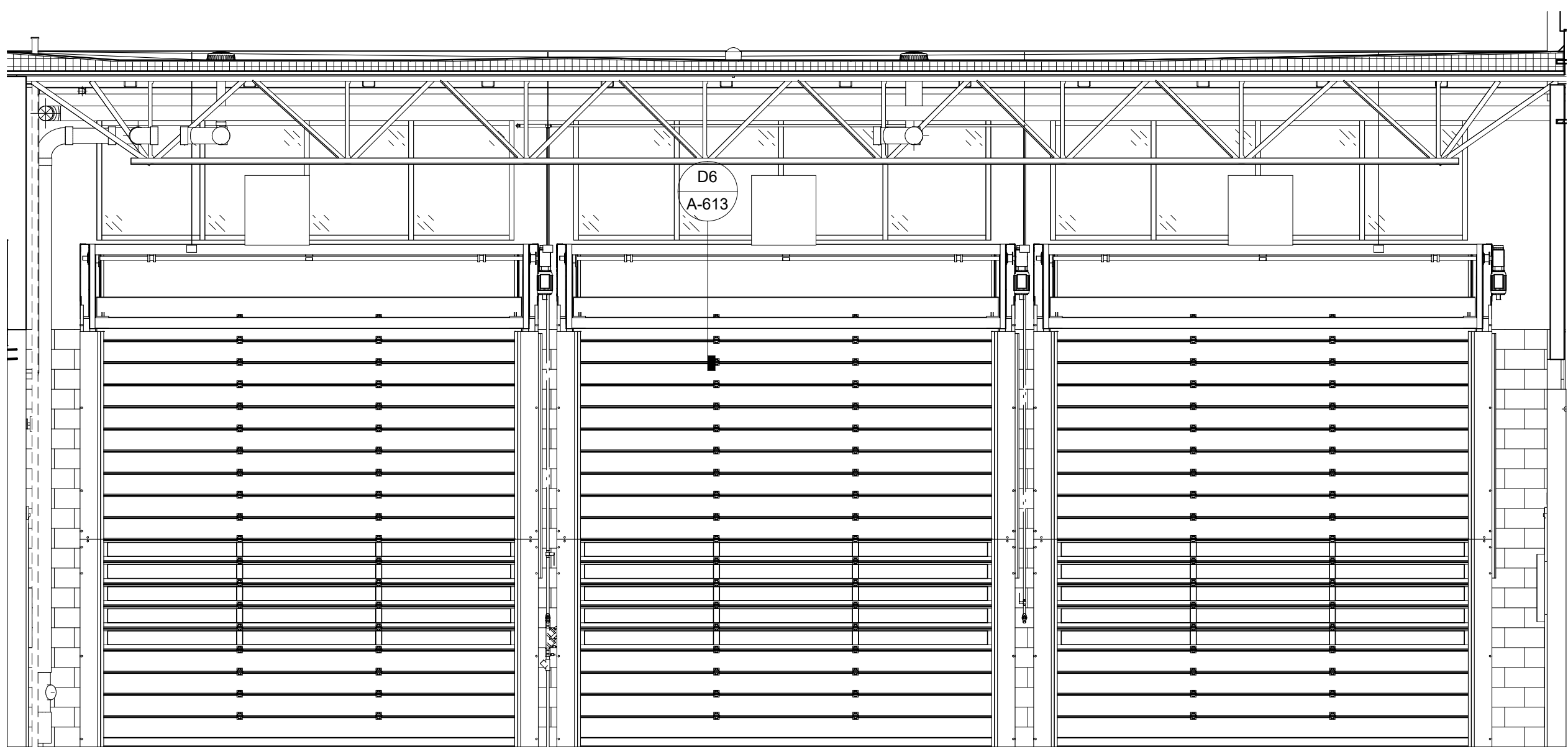
FEC



B1 APPARATUS BAY EAST ELEVATION

1/4" = 1'-0"

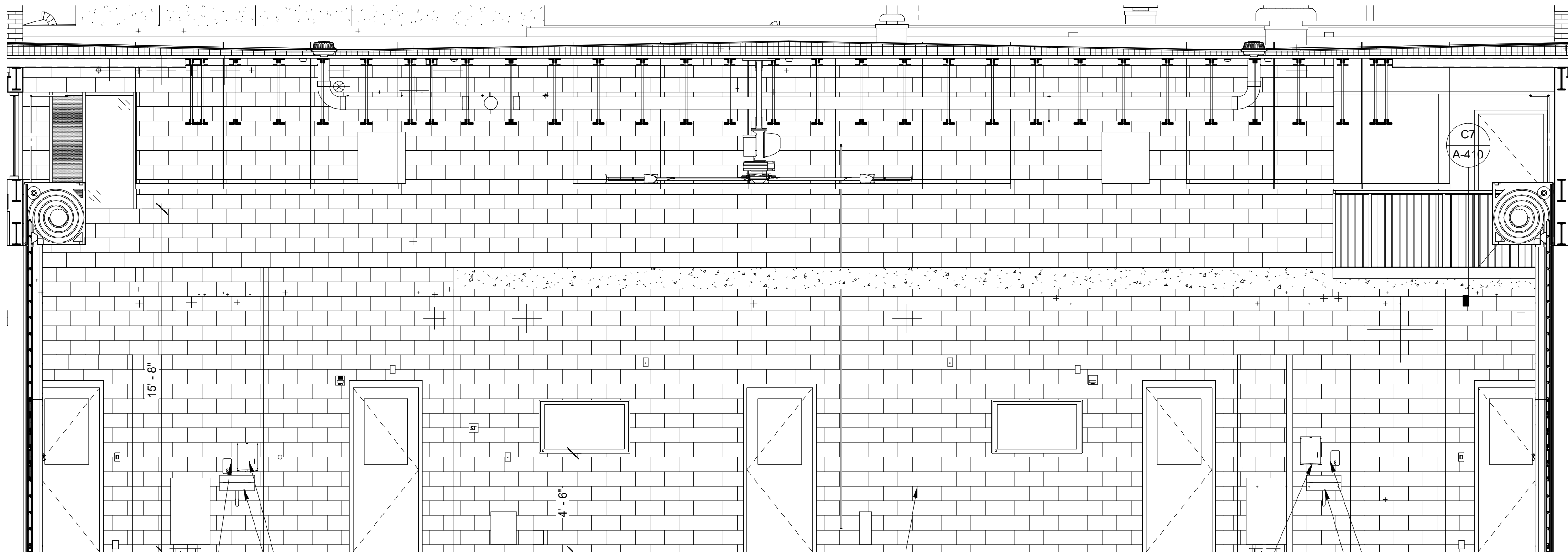
0 2' 4' 8'



B5 APPARATUS BAY WEST ELEVATION

1/4" = 1'-0"

0 2' 4' 8'



A3 APPARATUS BAY SOUTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

P-2 - ACCENT COLOR

BOOT WASH
PAPER TOWEL DISPENSER

SOAP DISPENSER
SINK

REVISIONS:		
#	Description	Date



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

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APPARATUS BAY ELEVATIONS

I-203

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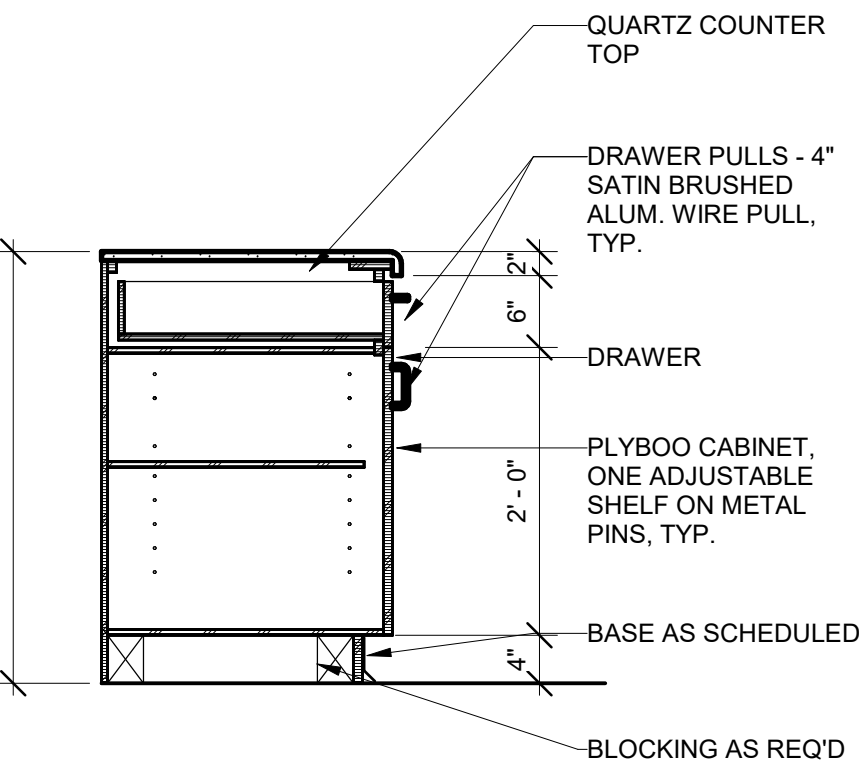
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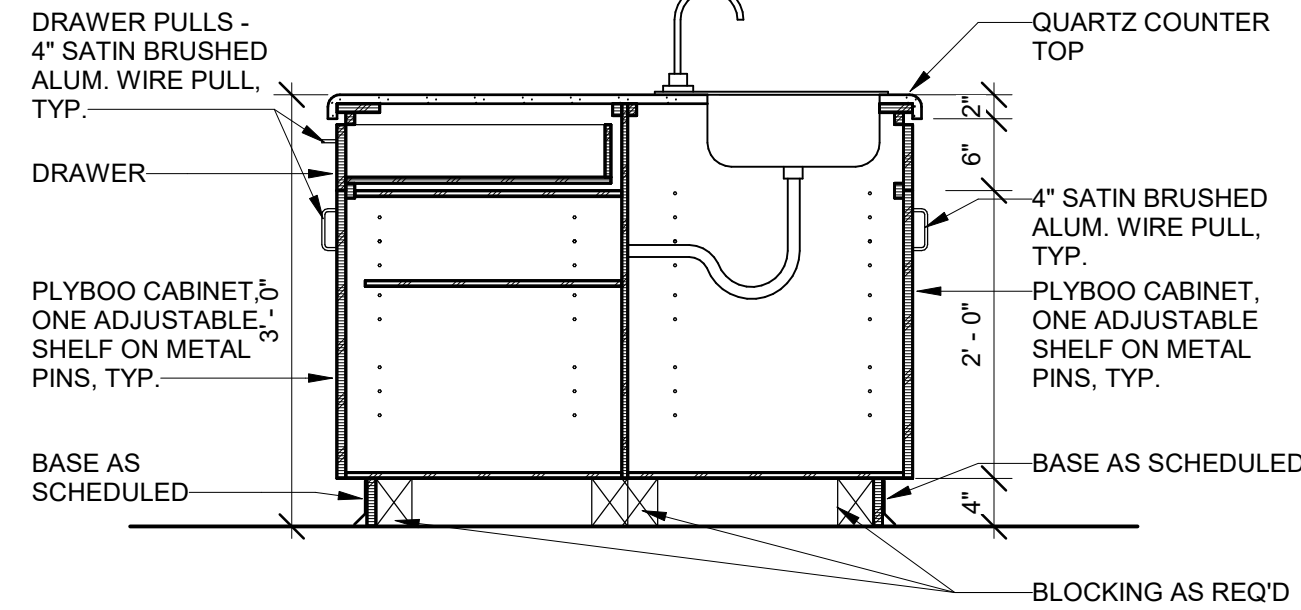
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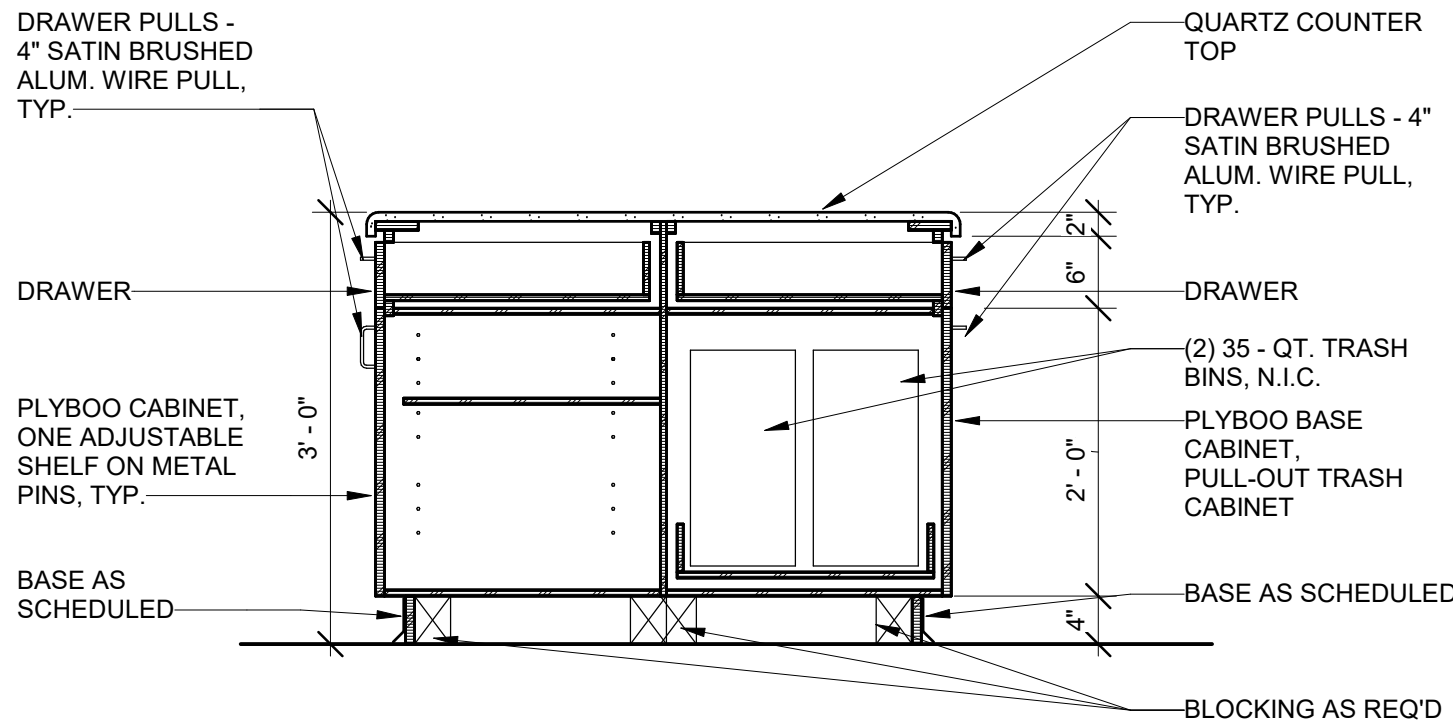
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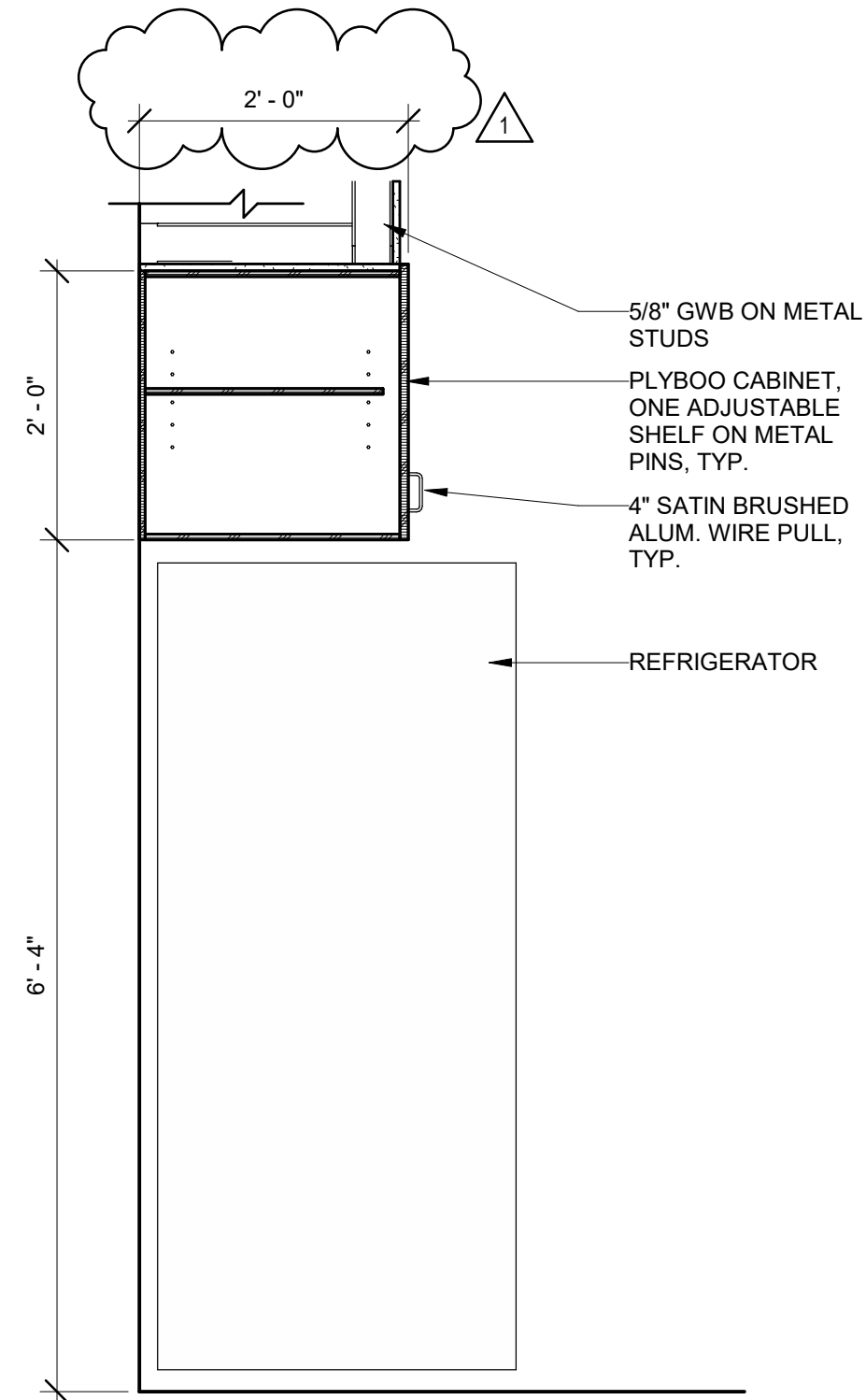
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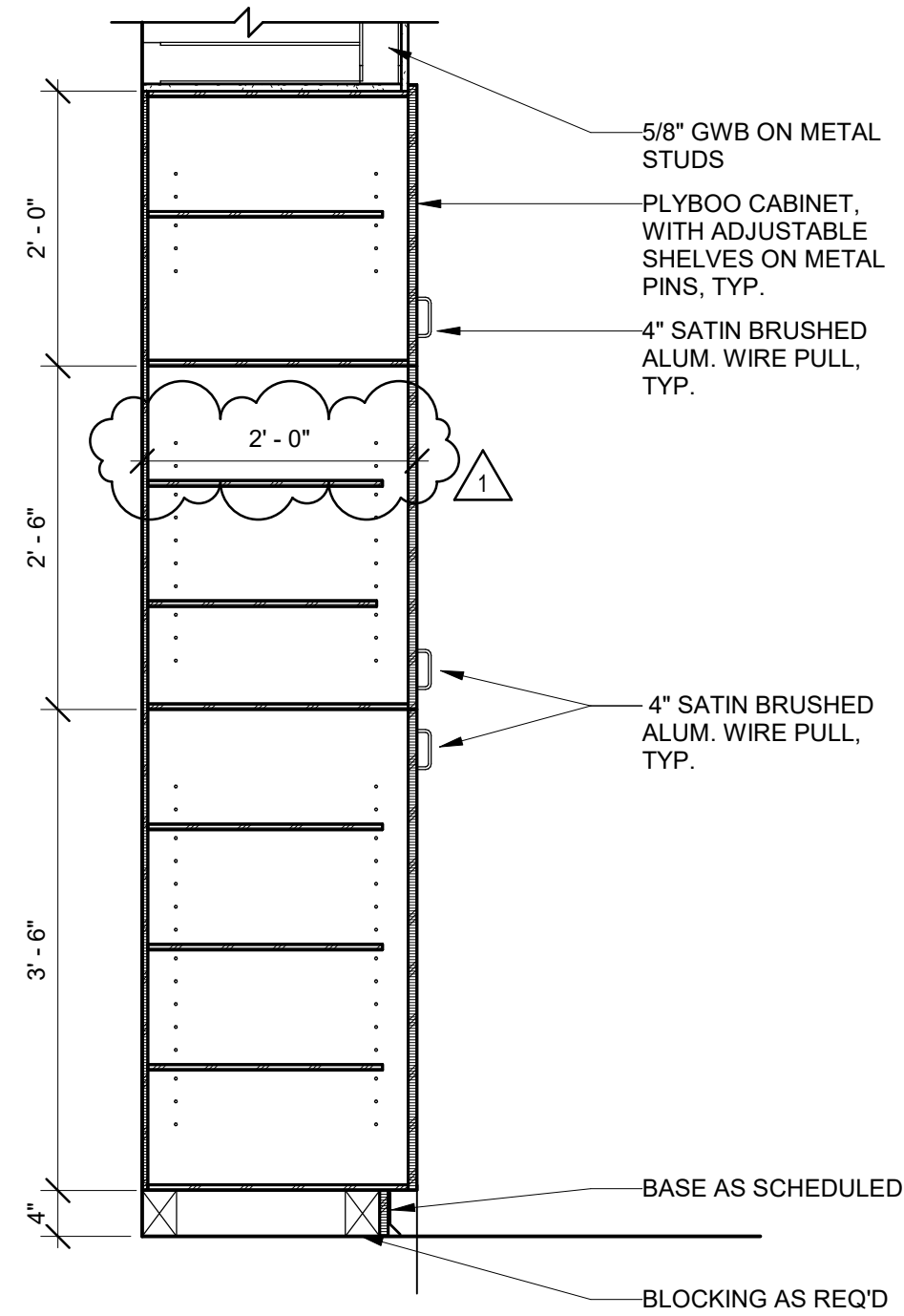
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@ ISLAND SINK



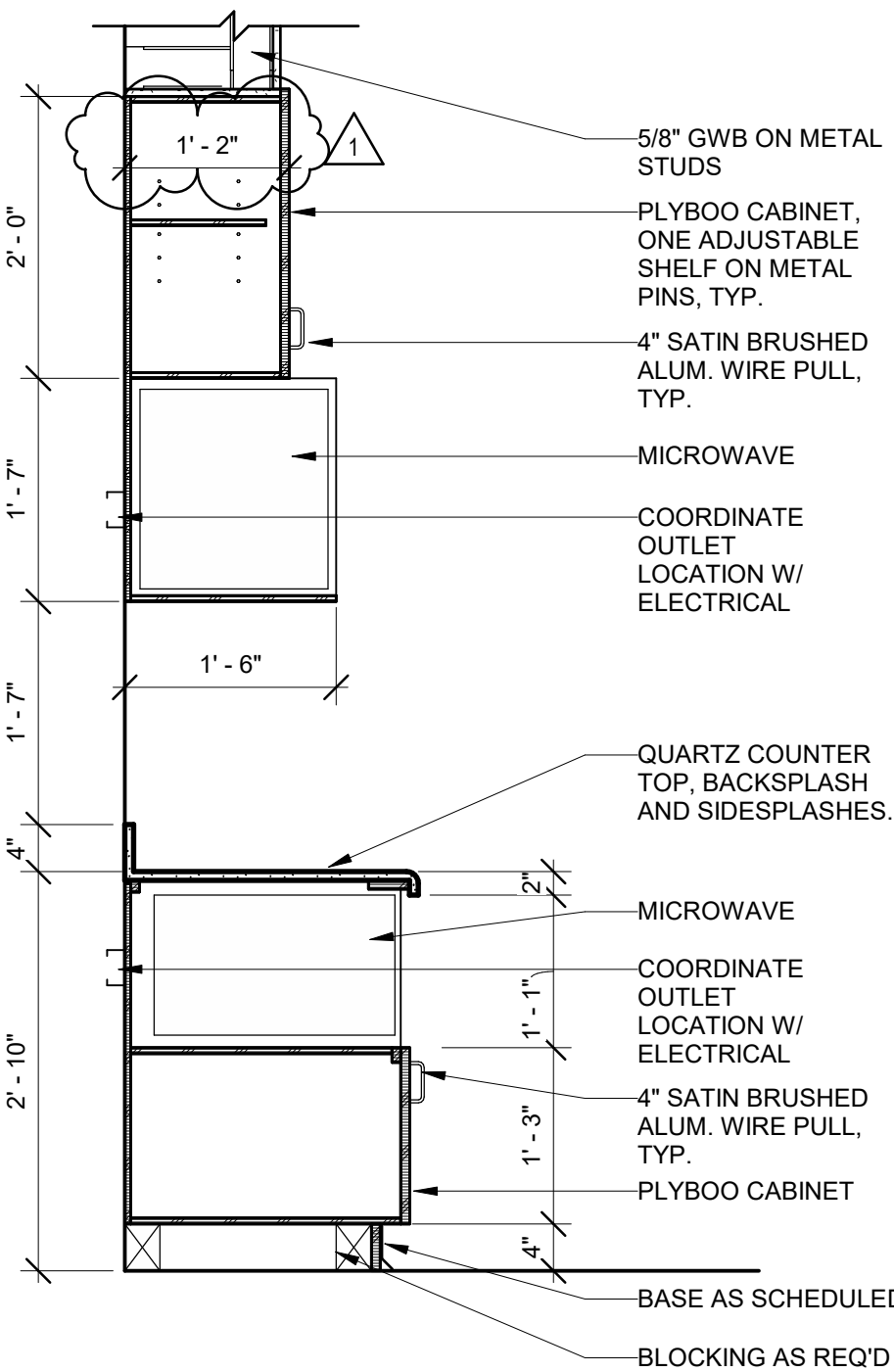
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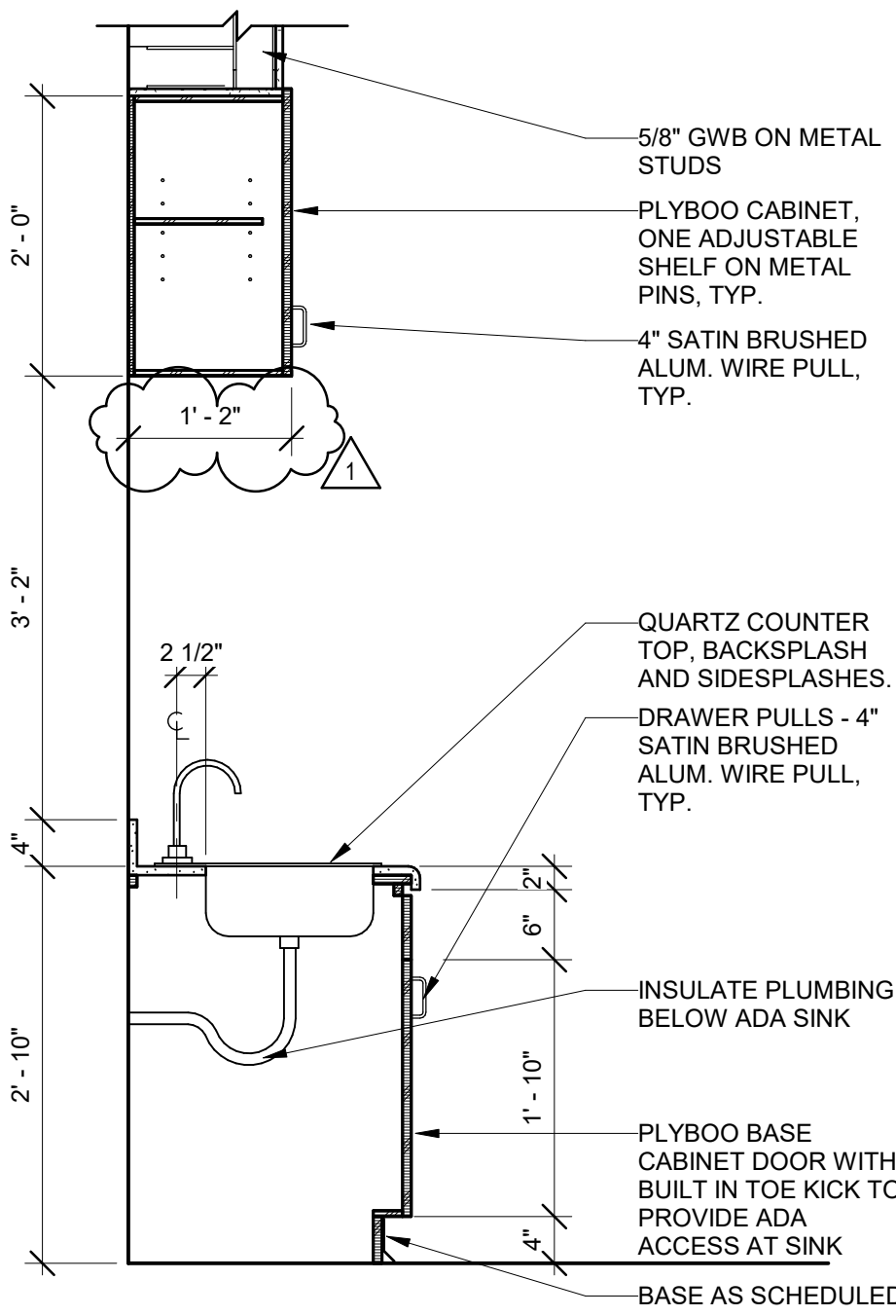
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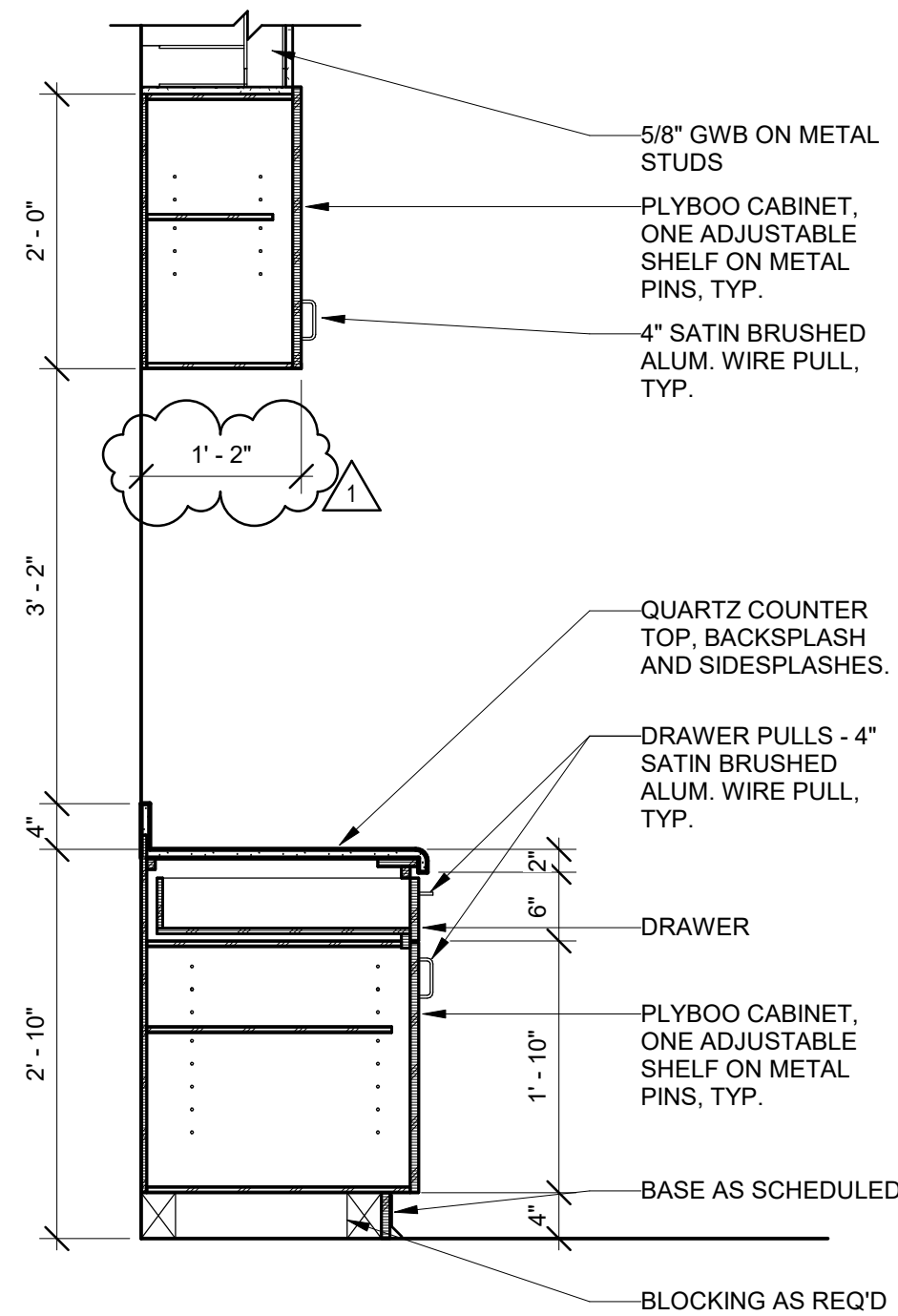
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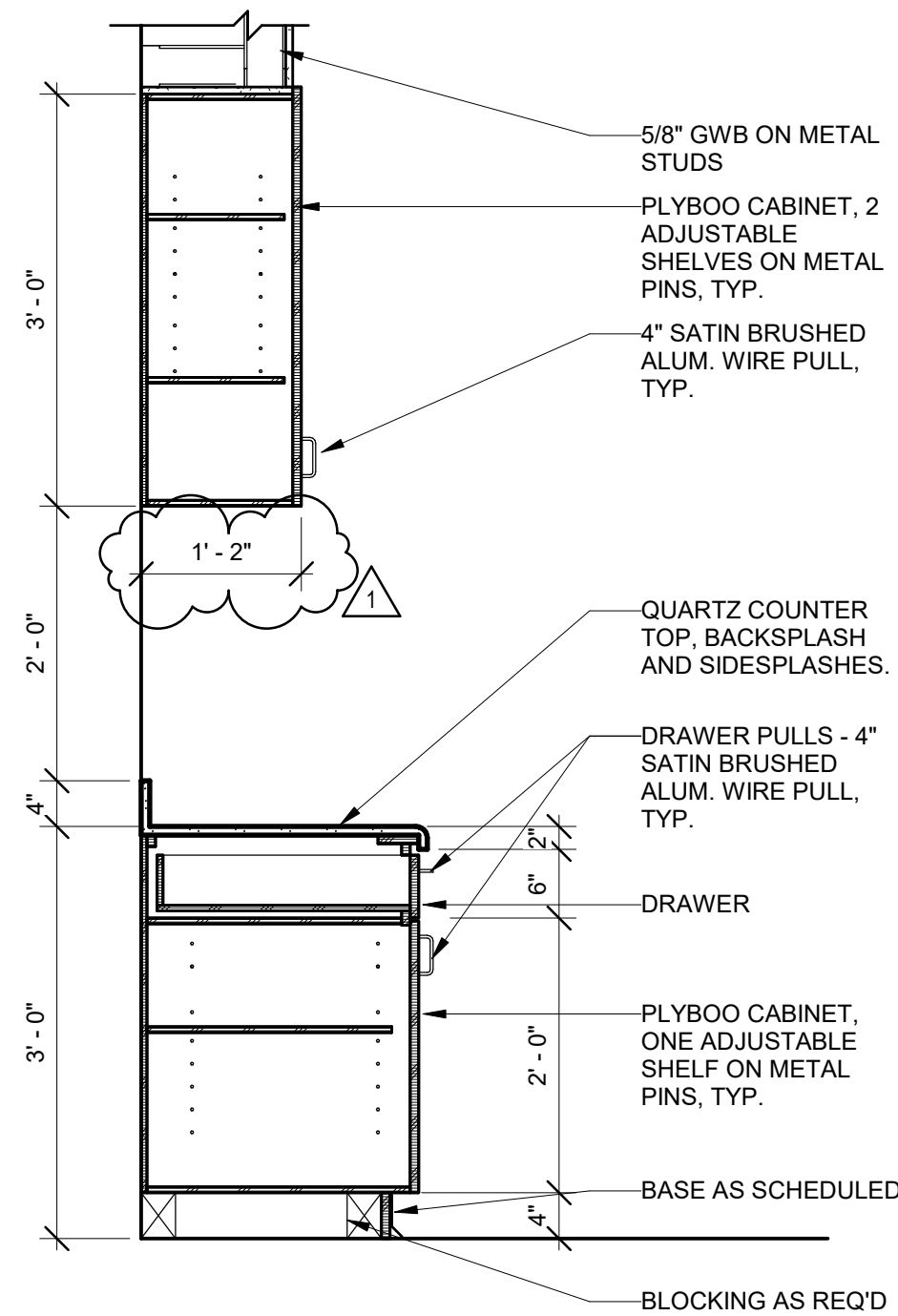
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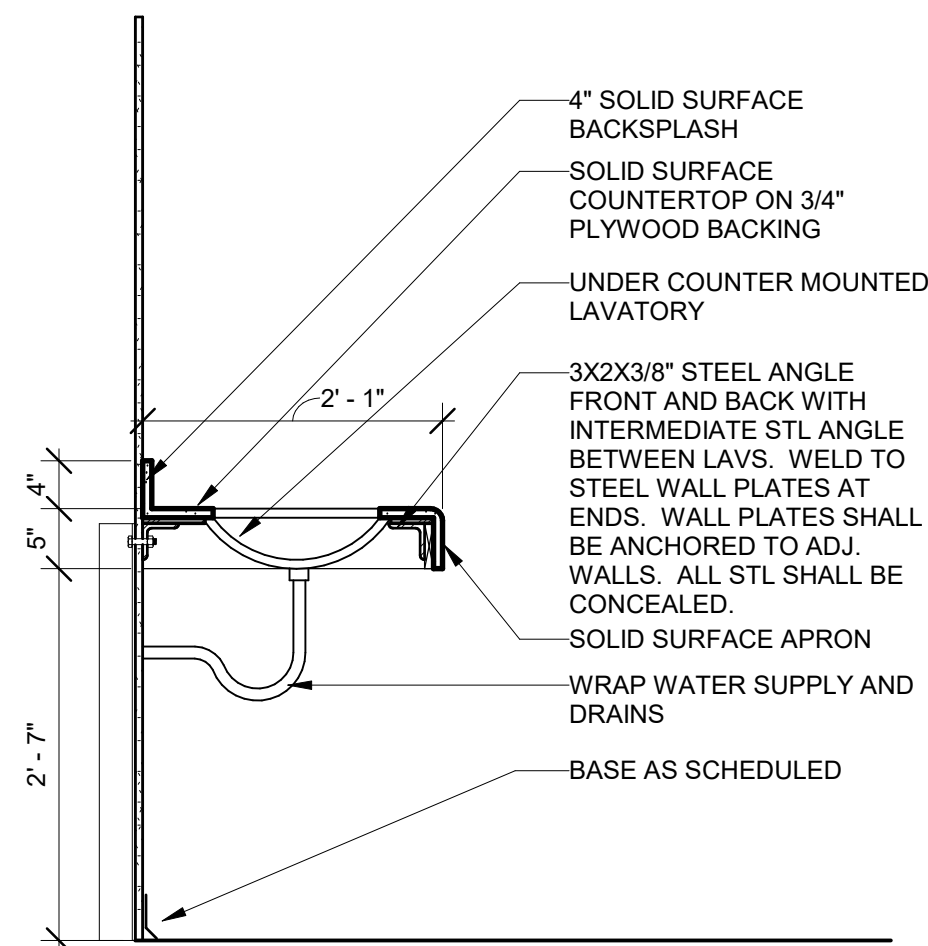
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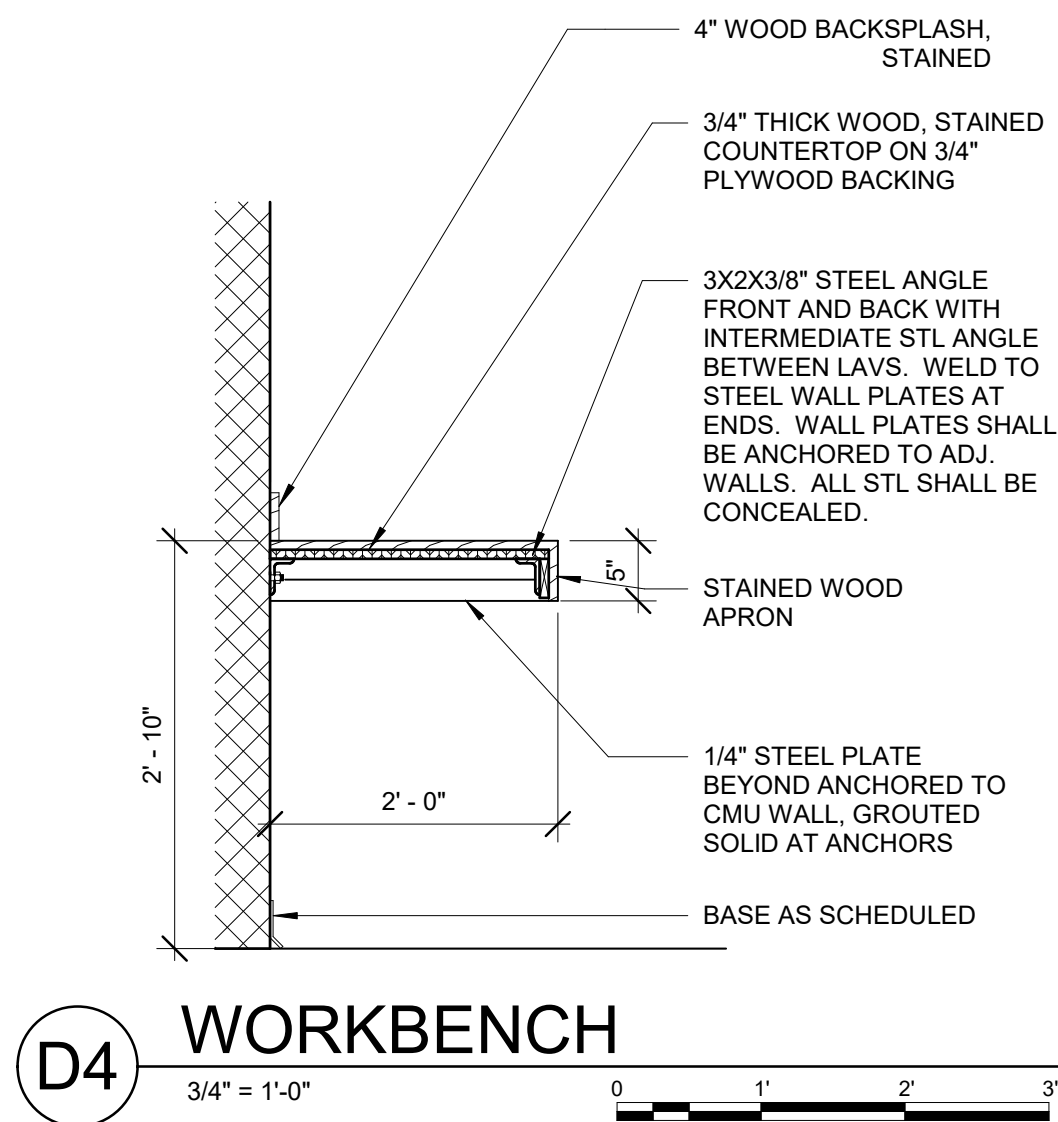
CASEWORK SECTION
@ KITCHEN ADA, TYP.



CASEWORK SECTION
@ KITCHEN, TYP.



CASEWORK SECTION
@ TOILETS



WORKBENCH

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

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

ISSUED FOR CONSTRUCTION

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

PAUL J. MICHELL - ARCHITECT
MO# A-2009021701
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DATE: 11.21.2022
DRAWN BY: CLW
CHK'D BY: BJD

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CASEWORK SECTIONS

I-501

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

ROOM FINISH CODE

GENERAL NOTES:

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

FINISH SCHEDULE LEGEND:

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



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KANSAS CITY, MO 64108
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**FIRE STATION #5
CITY OF LEE'S SUMMIT**

**801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082**

ISSUED FOR CONSTRUCTION

REVISIONS:		
#	Description	Date



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

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FINISH SCHEDULE

I-601

FILE PATH: BIM 360://18225R21001_FireStation_#4 and #5/LSMO_FIRE STATION_5_MEP_V19.rvt

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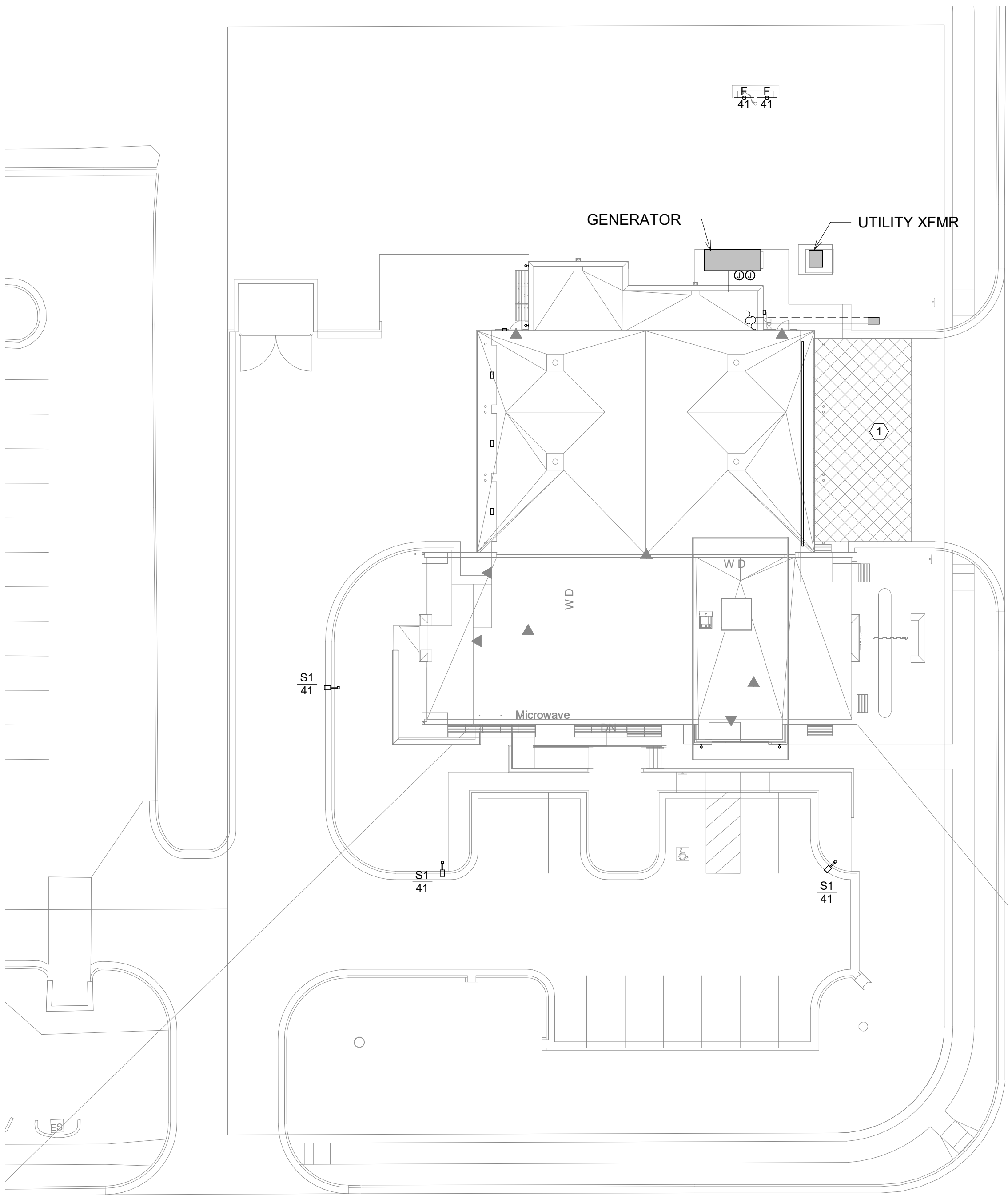
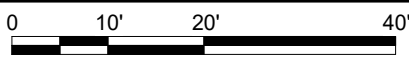
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MPE SITE PLAN

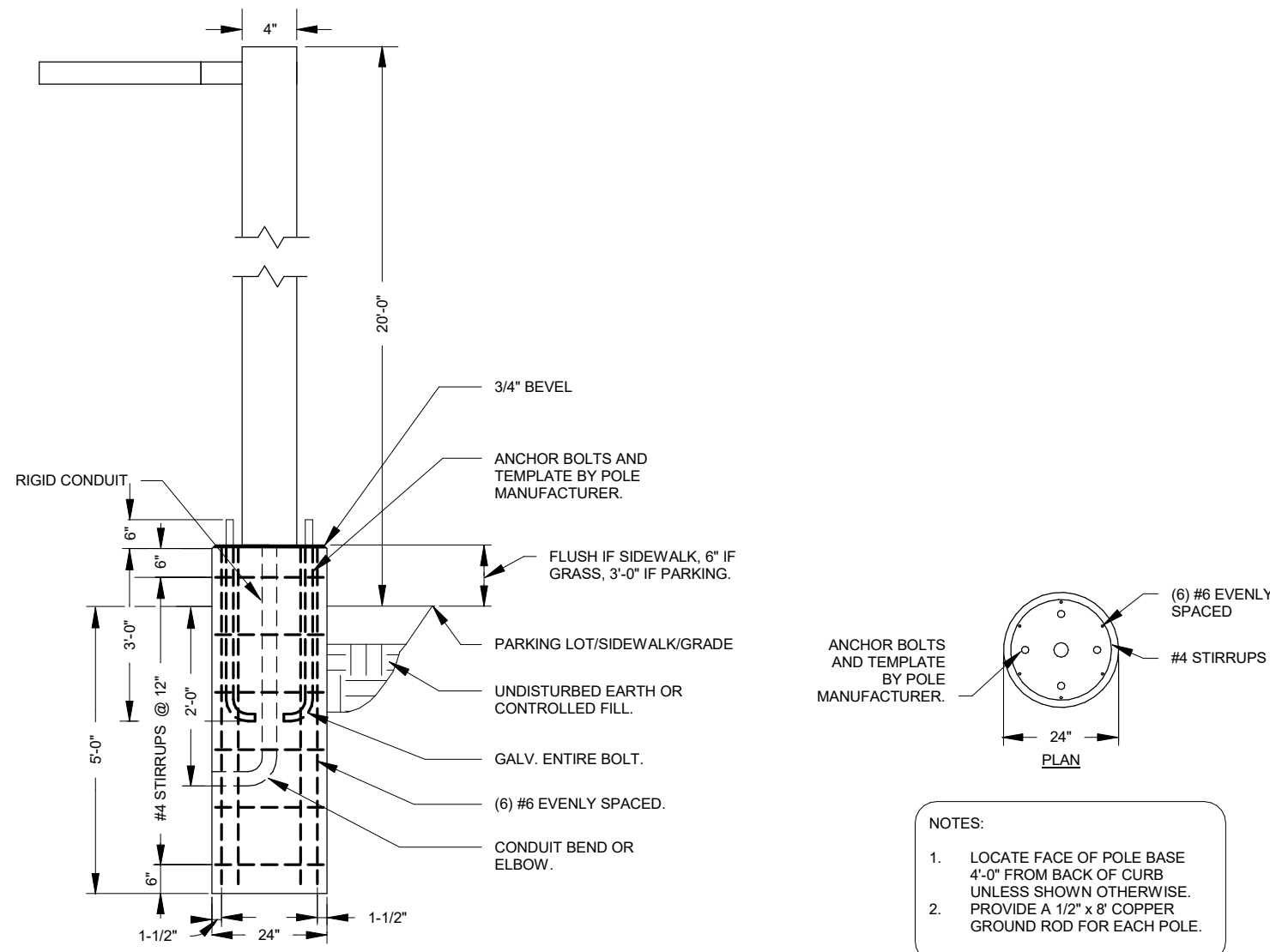
1" = 20'-0"



A6

POLE BASE DETAIL

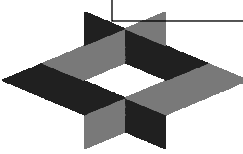
NOT TO SCALE



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

PLAN NOTES:

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



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

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

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MO# PE-2007023868

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DRAWN BY: JL

CHK'D BY: NB

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MPE SITE PLAN

ME001

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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							
S1	LITHONIA	DSX1 LED P4 30K T4M MVOLT	LED	13165	3000 K	80	--	POLE	120	125		POLE MOUNTED SITE LIGHTING FIXTURE	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:

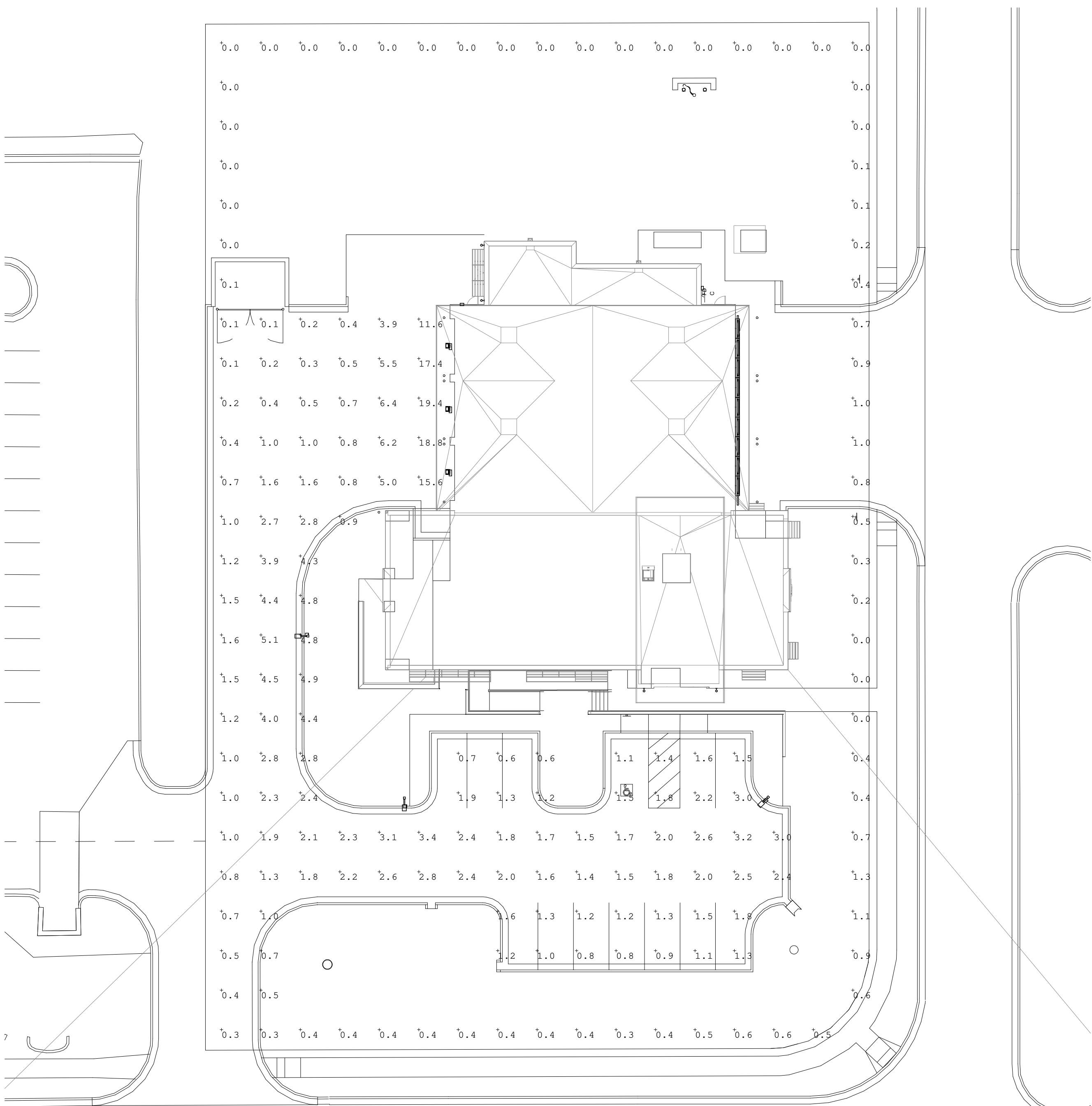
1. PROVIDE FIXTURE WITH DIMMABLE DRIVER.
2. PROVIDE FIXTURE WITH COLD WEATHER DRIVER.
3. PROVIDE FIXTURE WITH EMERGENCY DRIVER.
4. PROVIDE FIXTURE WITH COLD WEATHER EMERGENCY DRIVER.
5. PROVIDE NUMBER OF FACES AND DIRECTIONAL ARROWS TO MATCH WHAT IS SHOWN ON DRAWINGS.
6. MOUNT FIXTURE 6'-4" ABOVE FINISHED 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 BOTTOM OF FIXTURE AT 20'-0" ABOVE GRADE.

GENERAL NOTES:

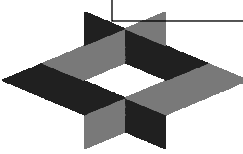
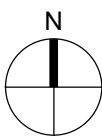
- A. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES.
- B. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.
- C. REFERENCE PLANS FOR FIXTURES REQUIRING EMERGENCY DRIVERS.
- D. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES.

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Ground_Top	Illuminance	Fc	1.73	19.4	0.0	N.A.	N.A.



1 SITE LIGHTING PHOTOMETRIC PLAN
1" = 20'-0"



GLMVArchitecture

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FIRE STATION #5
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64064

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

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

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PROJECT NO: 18225R21001

DATE: 10.20.2022

DRAWN BY: JL

CHK'D BY: NB

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SITE LIGHTING
PHOTOMETRIC
PLAN

ME002

FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5/LSMO_FIRE STATION_5_MEP_V19.rvt

E

D

C

B

A

A1

MPE ROOF PLAN

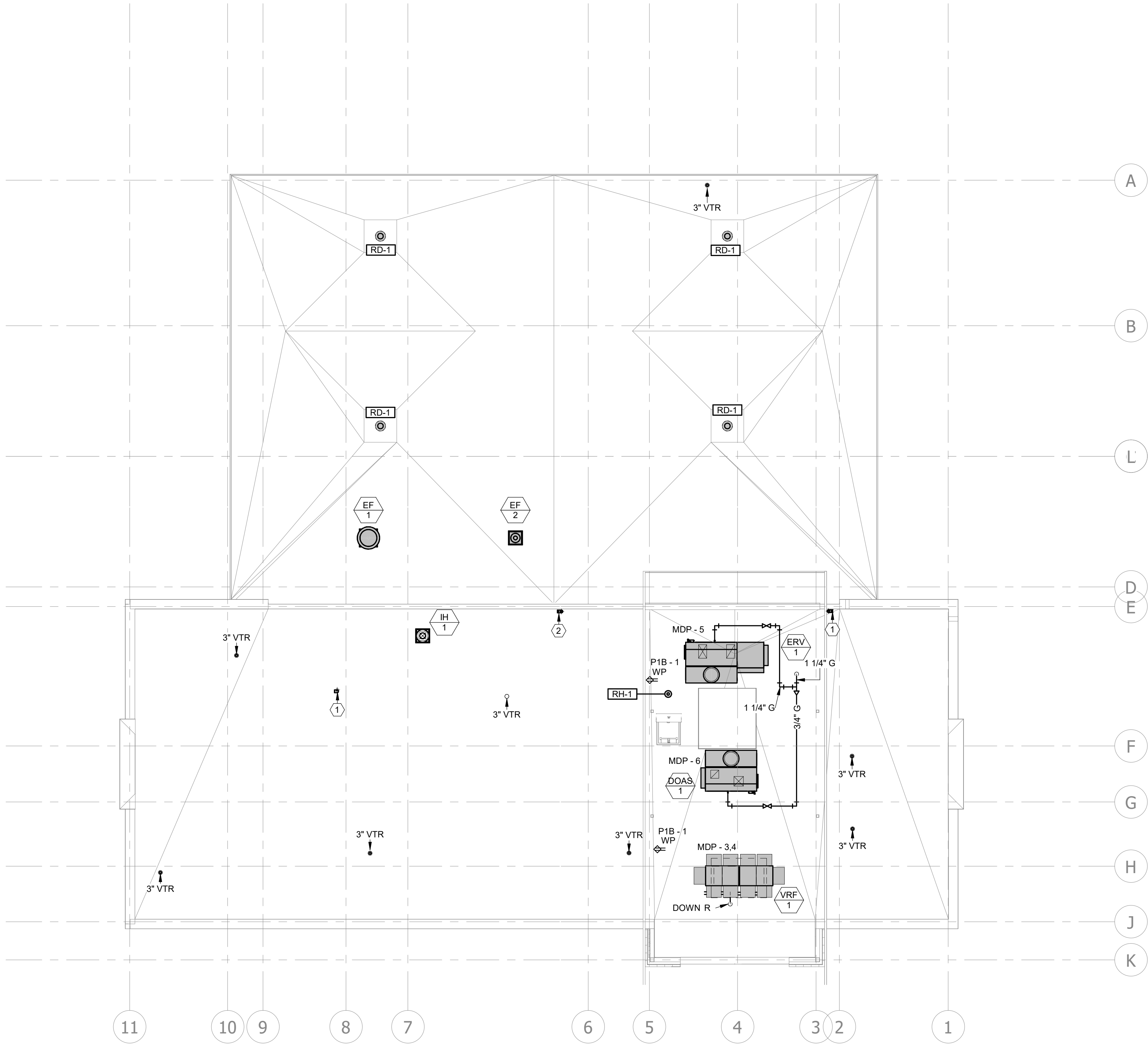
1/8" = 1'-0"

0

4'

8'

16'



MECHANICAL PLAN NOTES:

- 4" DRYER DUCT TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
- 4" WATER HEATER VENT/COMBUSTION AIR PIPING TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.

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FIRE STATION #5

CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150

LEE'S SUMMIT, MISSOURI 64064

100% CONSTRUCTION DOCUMENT DRAWINGS

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DATE: 10.20.2022
DRAWN BY: JL
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MPE ROOF PLAN

ME101

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS

FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5LSMO_FIRE STATION_5_MEP_V19.rvt

E

D

C

B

A



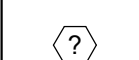
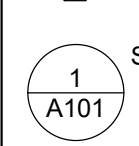
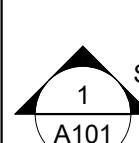
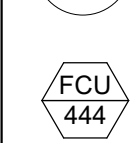
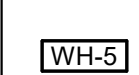
HVAC MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS

CONTROLS (TOP OF DEVICE) 48" AFF

DEFAULT MOUNTING HEIGHTS SHOWN ABOVE TO BE USED UNLESS NOTED OTHERWISE BY ARCHITECT OR IN CONSTRUCTION DOCUMENTS. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

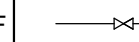
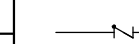
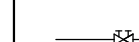


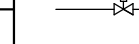
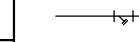




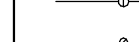

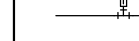

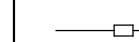




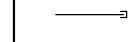
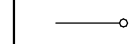
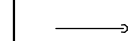
ANNOTATIONS

-  INDICATES CONNECTION TO EXISTING SYSTEM
-  INDICATES DEMO FROM EXISTING SYSTEM
-  PLAN NOTE REFERENCE
-  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

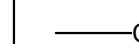
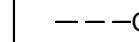
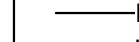
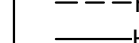
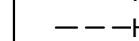
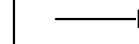
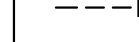
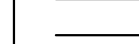
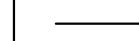
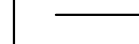
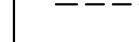
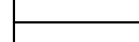

ABBREVIATIONS

A/C	AIR CONDITIONING
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
BCU	BLOWER COIL UNIT
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BTU/H	BRITISH THERMAL UNITS PER HOUR
CAV	CONSTANT AIR VOLUME
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
DDC	DIRECT DIGITAL CONTROL
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EJ	EXPANSION JOINT
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
FCU	FAN COIL UNIT
FTU	FAN TERMINAL UNIT
GC	GENERAL CONTRACTOR
HD	HEAD
HP	HEAT PUMP
HSTAT	HUMIDISTAT
HTG	HEATING
HTR	HEATER
IN. WC	INCHES OF WATER COLUMN
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
NC	NOISE CRITERIA
N/O, N/C	NORMALLY OPEN, NORMALLY CLOSED
OA	OUTSIDE AIR
PD	PRESSURE DROP (FEET OF WATER)
RA	RETURN AIR
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN
SP	STATIC PRESSURE
STC	SOUND TRANSMISSION CLASS
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VO	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
WB	WET BULB
WC	WATER COLUMN
WT	WEIGHT


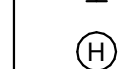

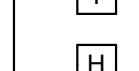
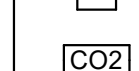
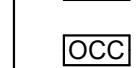
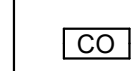



PIPE FITTINGS AND VALVES

-  SHUT-OFF VALVE
-  CHECK VALVE
-  SHUT-OFF VALVE
-  TRIPLE DUTY VALVE
-  SOLENOID VALVE
-  STRAINER
-  STRAINER WITH BLOWOFF
-  TWO-WAY CONTROL VALVE
-  TWO-WAY CONTROL VALVE
-  PRESSURE REDUCING VALVE
-  PRESSURE GAUGE
-  THERMOMETER
-  BACKFLOW PREVENTER
-  EXPANSION JOINT
-  PIPE ANCHOR
-  UNION
-  REDUCER
-  CAP
-  ELBOW UP
-  ELBOW DOWN
-  TEE UP
-  TEE DOWN
-  SIAMESE CONNECTION


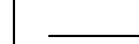

PIPING

-  CHILLED WATER SUPPLY
-  CHILLED WATER RETURN
-  HOT-CHILLED WATER SUPPLY
-  HOT-CHILLED WATER RETURN
-  HEATING HOT WATER SUPPLY
-  HEATING HOT WATER RETURN
-  HEATING HOT WATER SUPPLY
-  HEATING HOT WATER RETURN
-  CONDENSATE DRAINING PIPING
-  REFRIGERANT LIQUID
-  REFRIGERANT SUCTION
-  INTAKE PIPING
-  EXHAUST PIPING

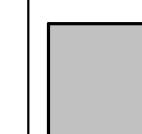
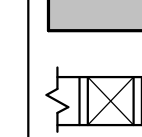
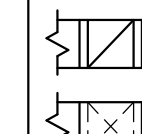
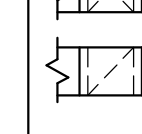
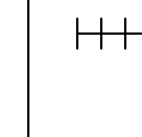
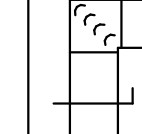
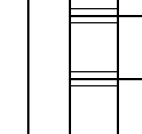
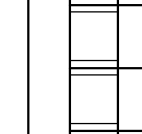
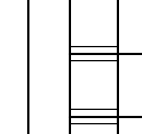
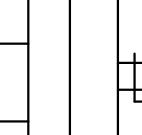
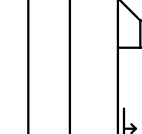
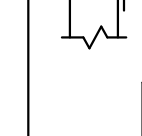

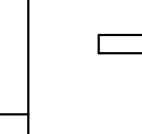










TEMPERATURE CONTROLS

-  THERMOSTAT / TEMPERATURE SENSOR
SERVING RTU 1
-  HUMIDITY SENSOR / HUMIDISTAT
-  REMOTE TEMPERATURE SENSOR
-  REMOTE HUMIDITY SENSOR
-  CARBON DIOXIDE SENSOR
-  OCCUPANCY SENSOR
-  CARBON MONOXIDE SENSOR
-  STATIC PRESSURE SENSOR
-  DIFFERENTIAL PRESSURE TRANSMITTER
-  DIFFERENTIAL PRESSURE TRANSMITTER

LINETYPE LEGEND

-  EXISTING TO REMAIN
-  NEW WORK
-  DEMOLISH

DUCTWORK

-  EQUIPMENT WITH FLEXIBLE DUCT
CONNECTION
-  SUPPLY AIR DUCT UP
-  RETURN / EXHAUST AIR DUCT UP
-  SUPPLY AIR DUCT DOWN
-  RETURN / EXHAUST AIR DUCT DOWN
-  FLEXIBLE DUCT
-  ELBOW WITH TURNING VEINS
-  MANUAL BALANCE DAMPER
-  MOTORIZED DAMPER
-  CONTROL DAMPER
-  RELIEF DAMPER
-  BACKDRAFT DAMPER
-  FIRE DAMPER
-  SMOKE DAMPER
-  FIRE / SMOKE DAMPER
-  SPIN-IN BRANCH DUCT CONNECTOR - WITH
DAMPER IF SHOWN
-  HIGH EFFICIENCY BRANCH DUCT
CONNECTOR - WITH DAMPER IF SHOWN
-  DUCT MOUNTED GRILLE / WALL GRILLE
-  SUPPLY AIR DIFFUSER
-  RETURN AIR DIFFUSER
-  LINEAR SLOT DIFFUSER
-  DIFFUSER, GRILLE, OR REGISTER TYPE
-  CFM
-  CONNECTION SIZE

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

HVAC GENERAL NOTES

- 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, LOWER 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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HVAC SYMBOLS LEGEND

M001

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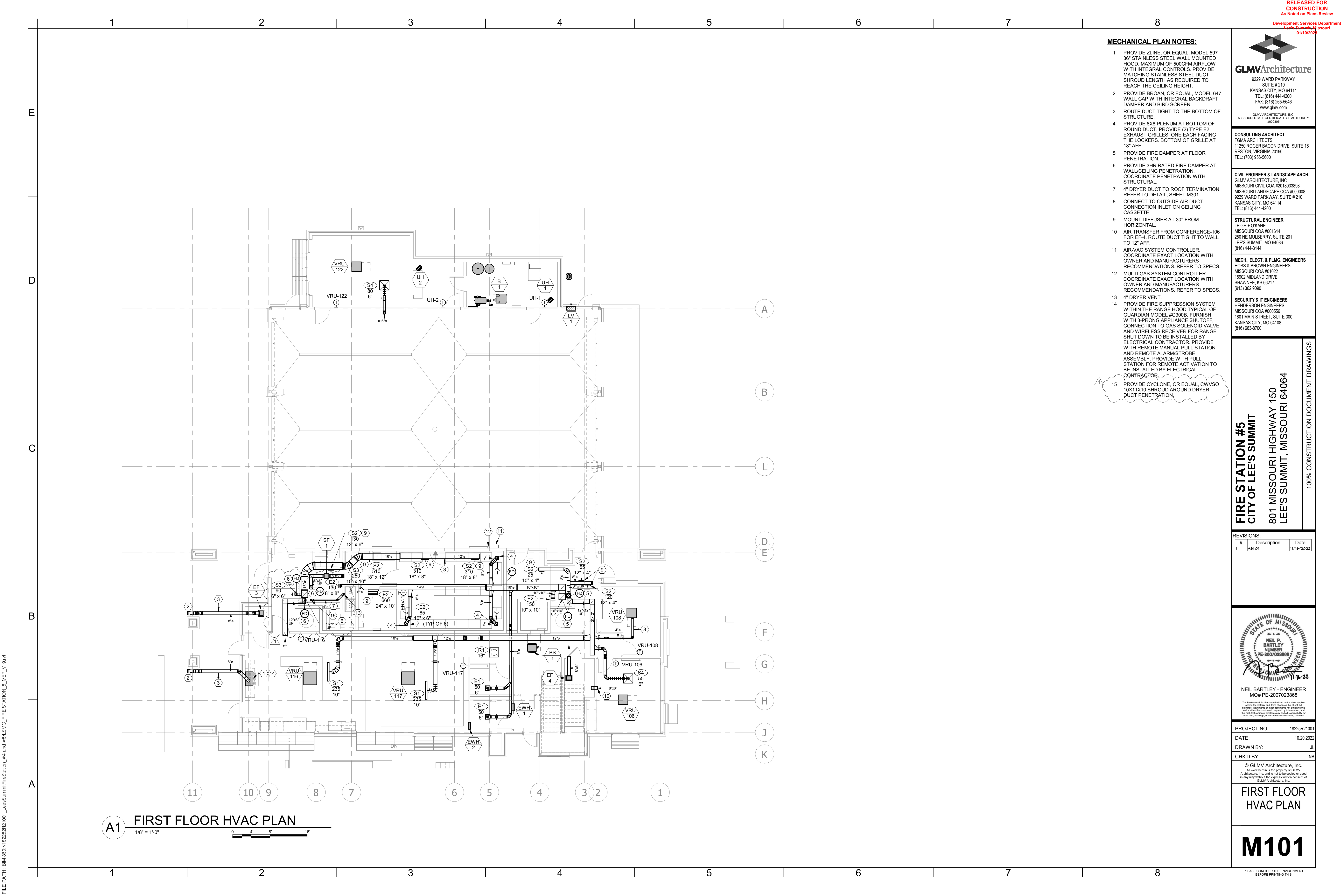
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- MECHANICAL PLAN NOTES:**
- 1 PROVIDE ZLINE, OR EQUAL, MODEL 597 36" STAINLESS STEEL WALL MOUNTED HOOD. MAXIMUM OF 500CFM AIRFLOW WITH INTEGRAL CONTROLS. PROVIDE MATCHING STAINLESS STEEL DUCT SHROUD LENGTH AS REQUIRED TO REACH THE CEILING HEIGHT.
 - 2 PROVIDE BROAN, OR EQUAL, MODEL 647 WALL CAP WITH INTEGRAL BACKDRAFT DAMPER AND BIRD SCREEN.
 - 3 ROUTE DUCT TIGHT TO THE BOTTOM OF STRUCTURE.
 - 4 PROVIDE 8X8 PLENUM AT BOTTOM OF ROUND DUCT. PROVIDE (2) TYPE E2 EXHAUST GRILLES, ONE EACH FACING THE LOCKERS. BOTTOM OF GRILLE AT 18" AFF.
 - 5 PROVIDE FIRE DAMPER AT FLOOR PENETRATION.
 - 6 PROVIDE 3HR RATED FIRE DAMPER AT WALL/CEILING PENETRATION. COORDINATE PENETRATION WITH STRUCTURAL.
 - 7 4" DRYER DUCT TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
 - 8 CONNECT TO OUTSIDE AIR DUCT CONNECTION INLET ON CEILING CASSETTE
 - 9 MOUNT DIFFUSER AT 30" FROM HORIZONTAL.
 - 10 AIR TRANSFER FROM CONFERENCE-106 FOR EF-4. ROUTE DUCT TIGHT TO WALL TO 12" AFF.
 - 11 AIR-VAC SYSTEM CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER AND MANUFACTURERS RECOMMENDATIONS. REFER TO SPECS.
 - 12 MULTIGAS SYSTEM CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER AND MANUFACTURERS RECOMMENDATIONS. REFER TO SPECS.
 - 13 4" DRYER VENT.
 - 14 PROVIDE FIRE SUPPRESSION SYSTEM WITHIN THE RANGE HOOD TYPICAL OF GUARDIAN MODEL #5300B. FURNISH WITH 3-PRONG APPLIANCE SHUTOFF. CONNECTION TO GAS SOLENOID VALVE AND WIRELESS RECEIVER FOR RANGE SHUT DOWN TO BE INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE WITH REMOTE MANUAL PULL STATION AND REMOTE ALARM/STROBE ASSEMBLY. PROVIDE WITH PULL STATION FOR REMOTE ACTIVATION TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
 - 15 PROVIDE CYCLONE, OR EQUAL, CWSO 10X11X10 SHROUD AROUND DRYER DUCT PENETRATION.

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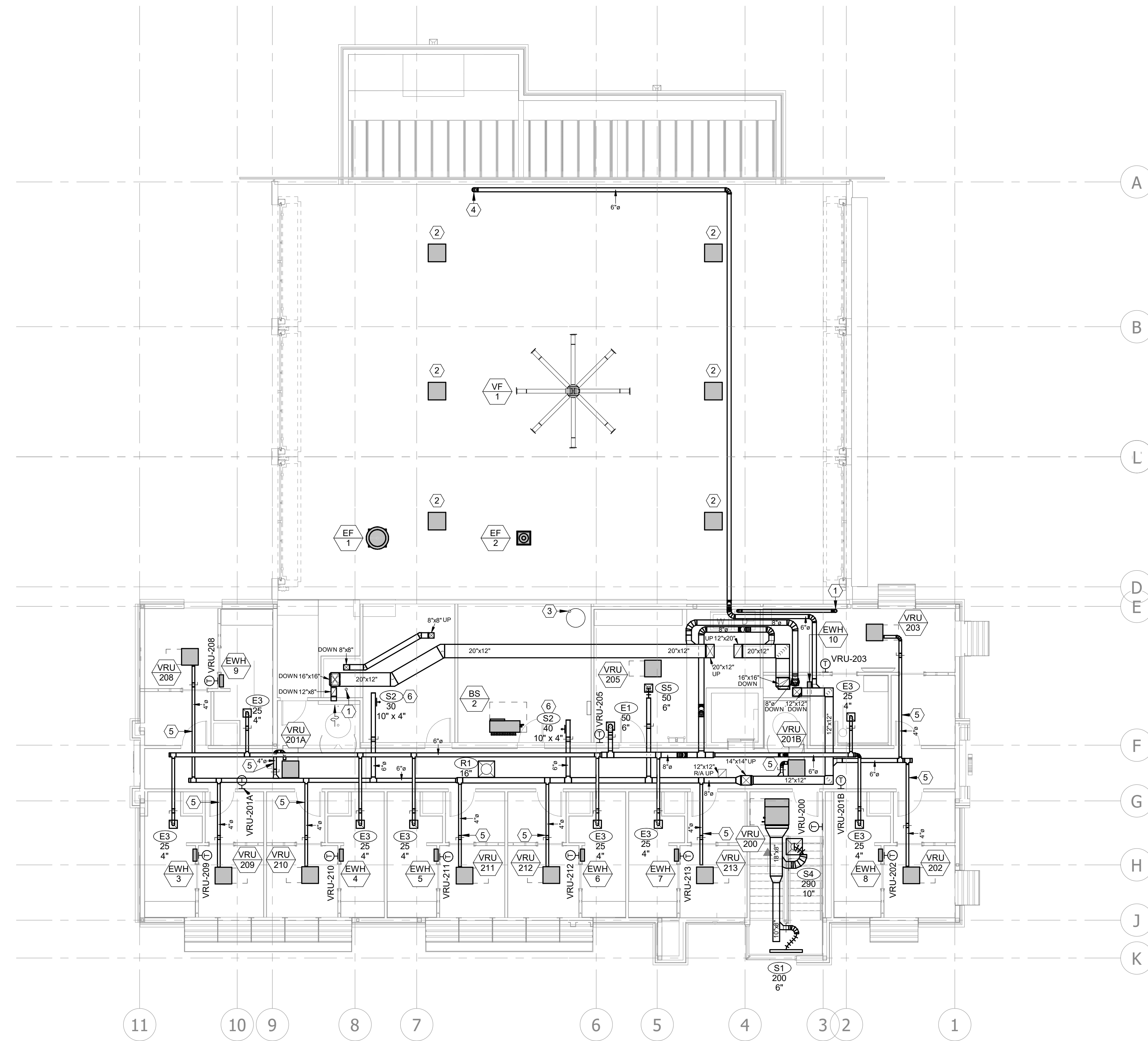
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FIRST FLOOR
HVAC PLAN

M101

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

MECHANICAL PLAN NOTES:

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



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SECOND FLOOR

LIVAC PLAN

HVAC PLAN

100

W100

M102

IM 102

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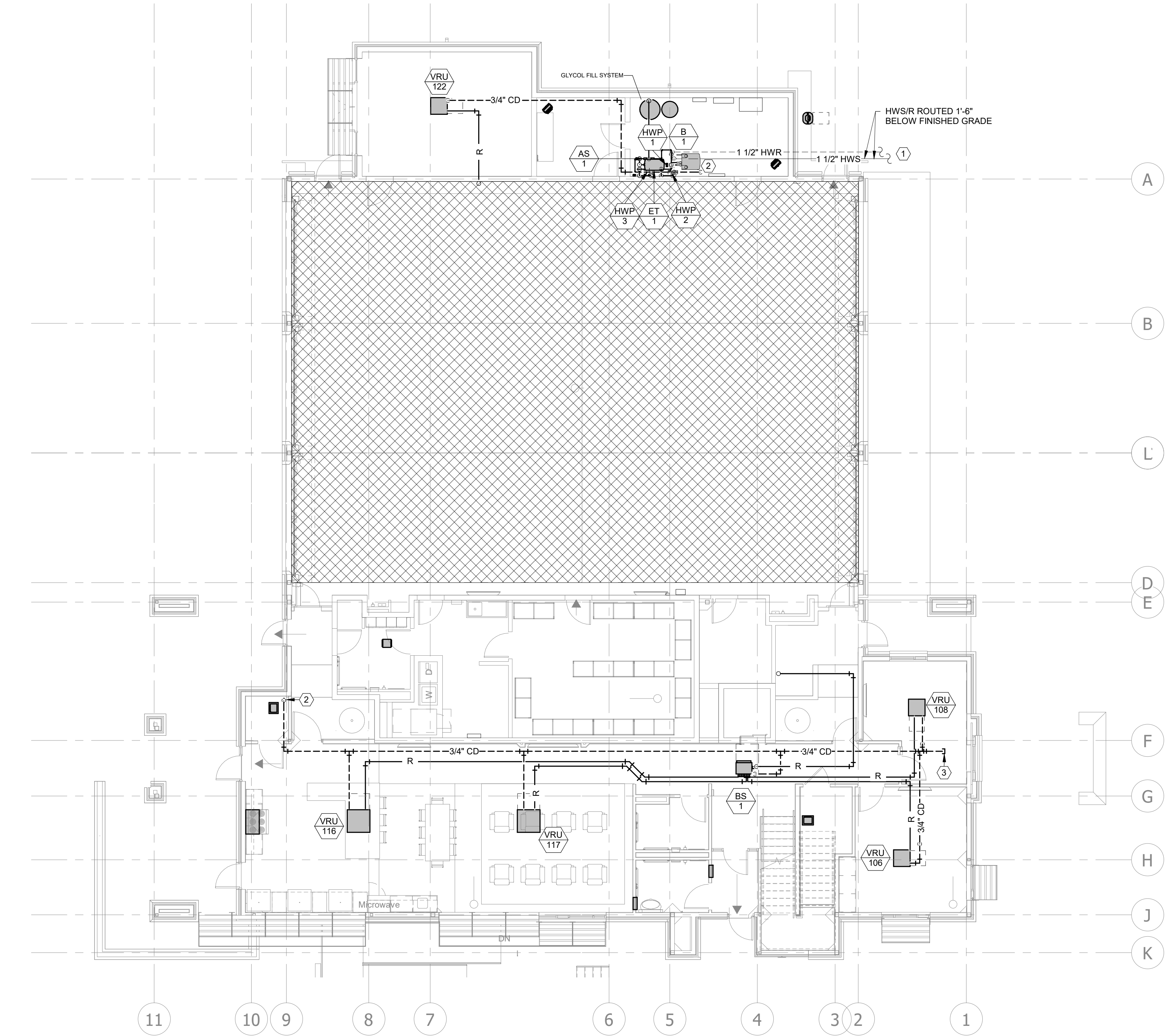
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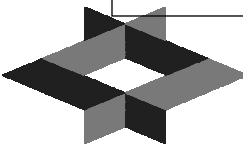
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A1 FIRST FLOOR HVAC PIPING PLAN
1/8" = 1'-0"
0 4' 8' 16'

MECHANICAL PLAN NOTES:

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



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**FIRST FLOOR
HVAC PIPING
PLAN**

M201

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SECOND FLOOR HVAC PIPING PLAN

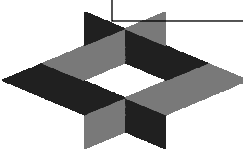
1/8" = 1'-0"



MECHANICAL PLAN NOTES:

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

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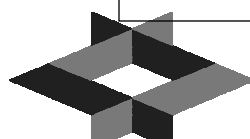
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SECOND FLOOR
HVAC PIPING
PLAN

M202

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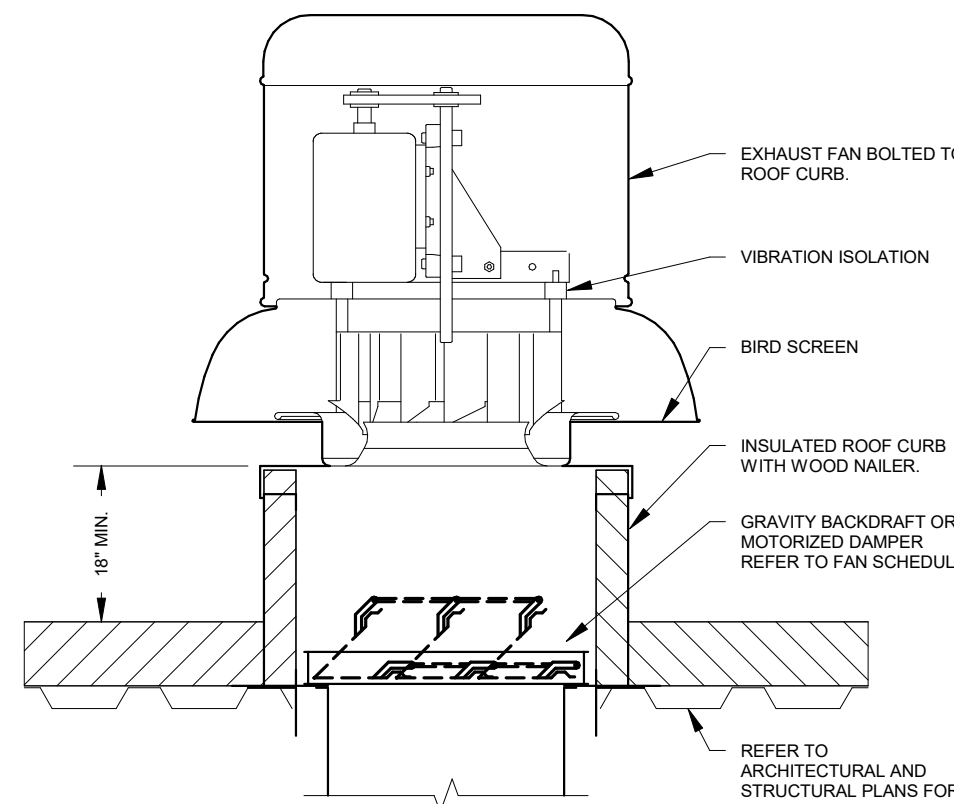
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**MECHANICAL
DETAILS**

M301

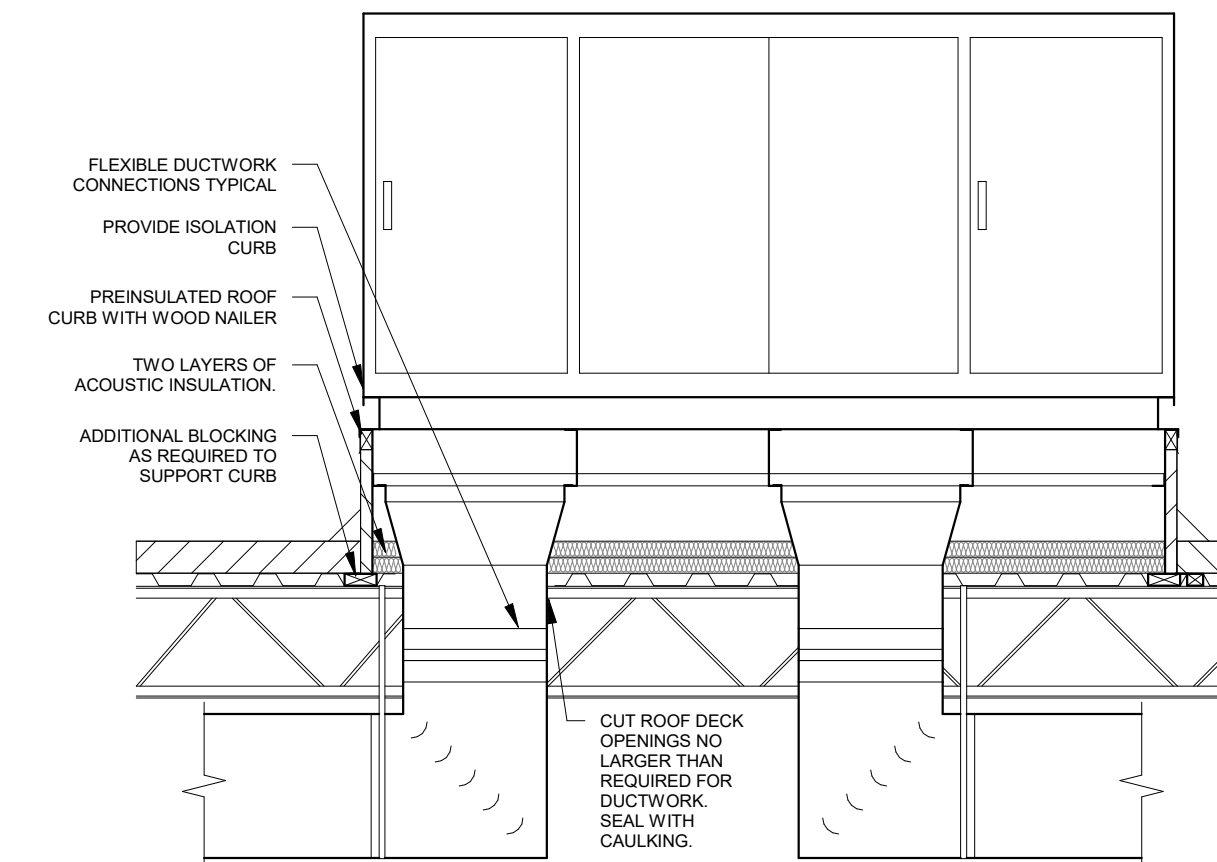
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- NOTES:
- DUCT SIZES SHALL BE AS INDICATED ON THE PLANS.
 - PROVIDE ROOF CURB OF SUFFICIENT HEIGHT TO PROVIDE A MINIMUM 12" CLEARANCE FROM THE TOP OF THE CURB TO THE FINISHED ROOF.
 - DOWNBLAST FAN SHOWN. UPLAST FAN IS SIMILAR.
 - KITCHEN EXHAUST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

D5 FAN EXHAUST ROOF

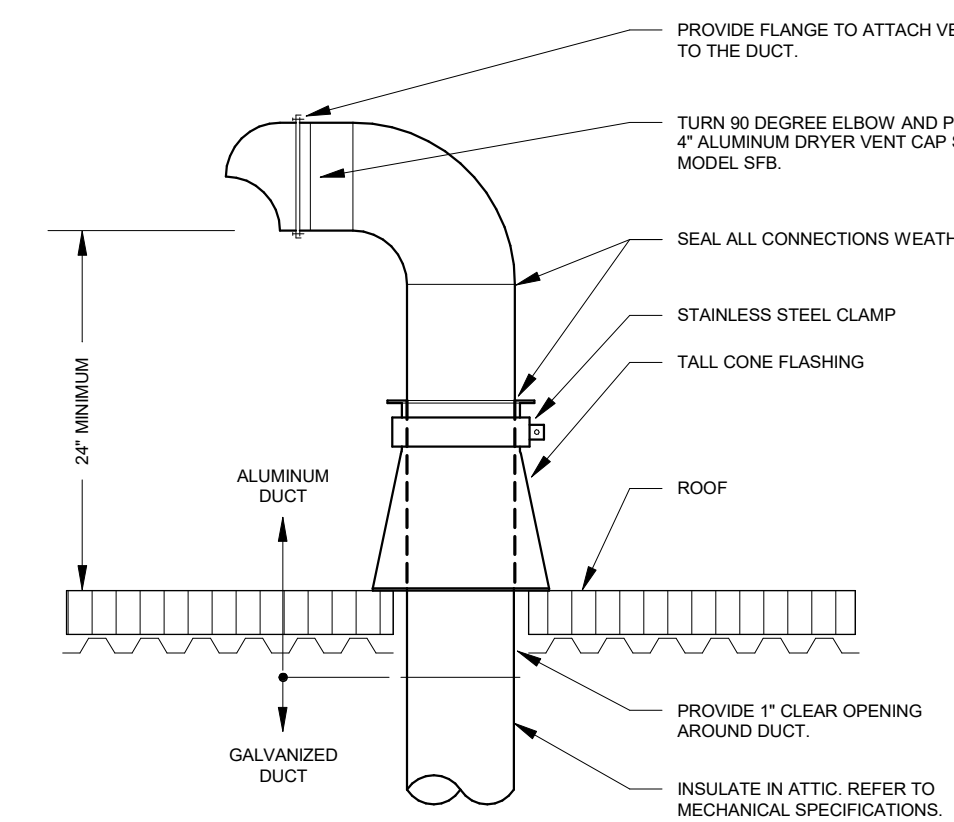
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- NOTES:
- ROOFING, INSULATION, FLASHING AND COUNTER FLASHING TO BE INSTALLED PER ARCHITECTURAL PLANS, DETAILS AND SPECIFICATIONS.
 - BLOCKING AND SUPPORT SHALL BE INSTALLED PER THE STRUCTURAL PLANS, DETAILS AND SPECIFICATIONS.
 - CONTRACTOR TO PROVIDE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

B5 ROOF CURB RTU

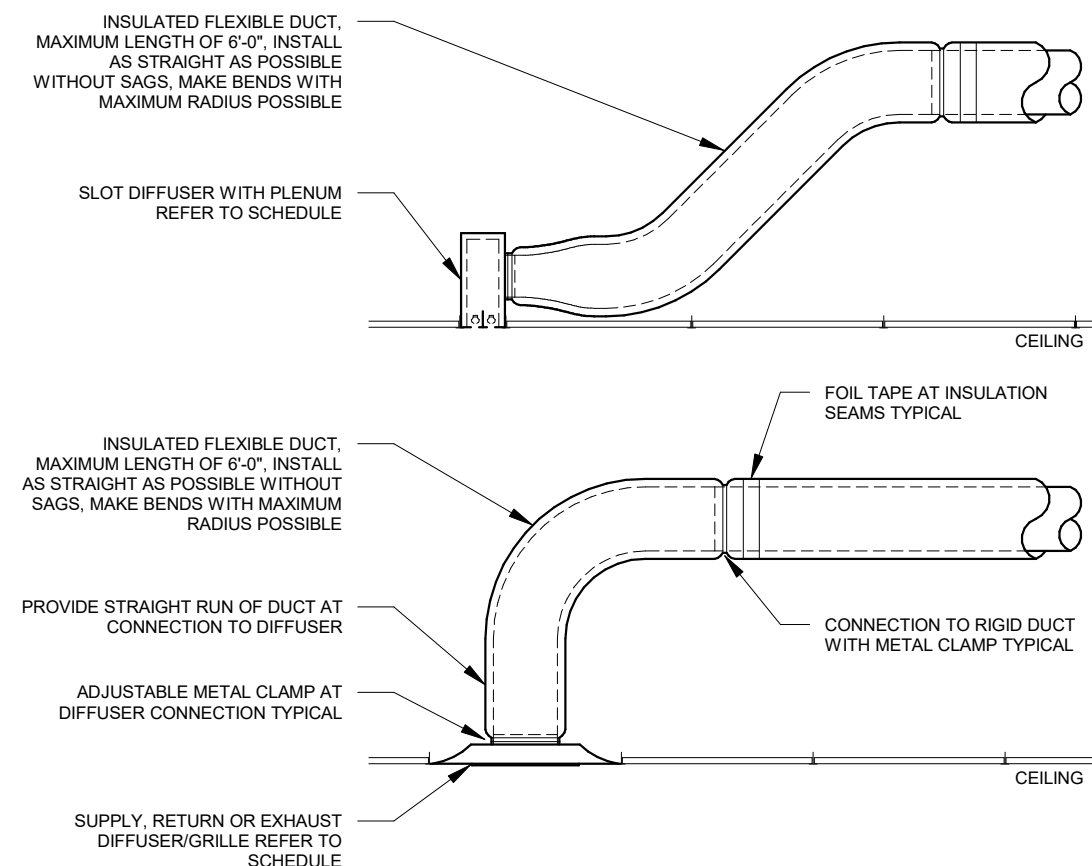
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- NOTES:
- DUCT SIZES SHALL BE AS INDICATED ON THE PLANS.
 - PROVIDE ROOFING AND FLASHING PER ARCHITECTURAL AND/OR ROOF MANUFACTURER'S REQUIREMENTS.
 - USE POP RIVETS ON ALL DRYER VENT. SHEETMETAL SCREWS ARE NOT ACCEPTABLE.
 - THE MALE END OF THE DUCT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

A5 VENT ROOF CLOTHES DRYER

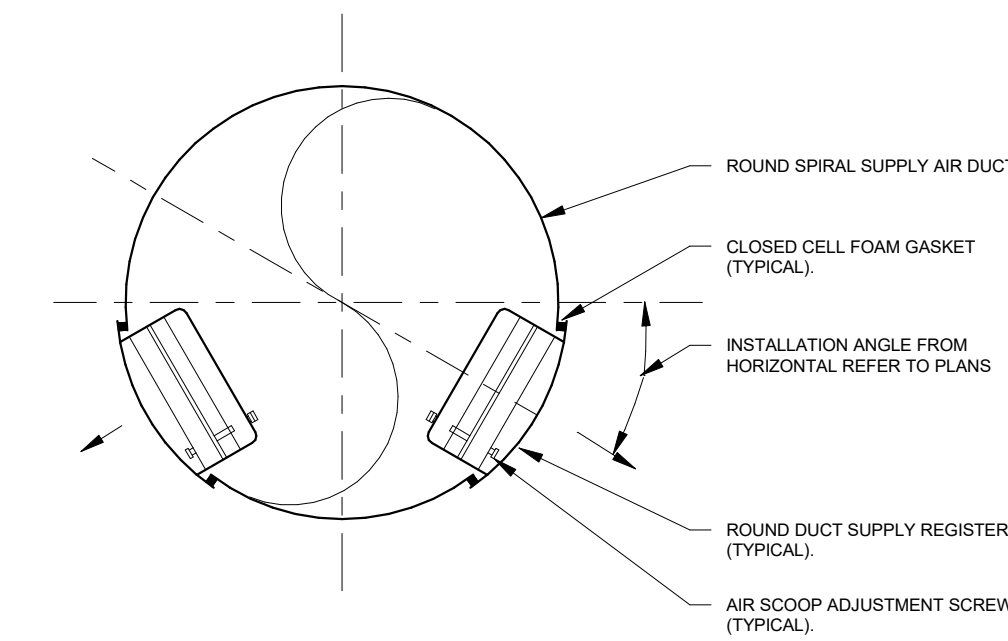
NOT TO SCALE



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

D7 DIFFUSER CONNECTION

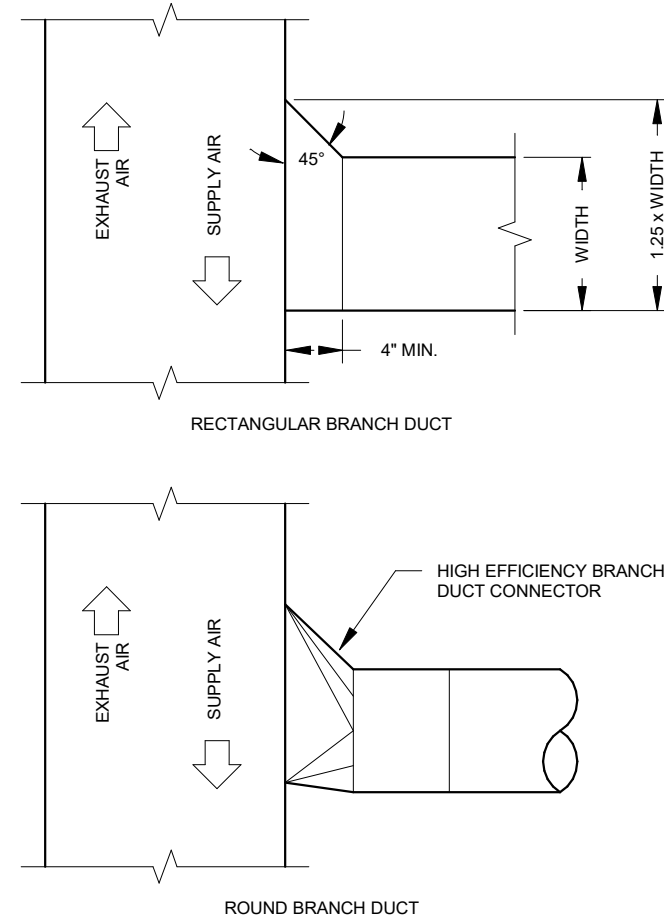
NOT TO SCALE



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

B7 DIFFUSER SUPPLY SPIRAL GRILLE

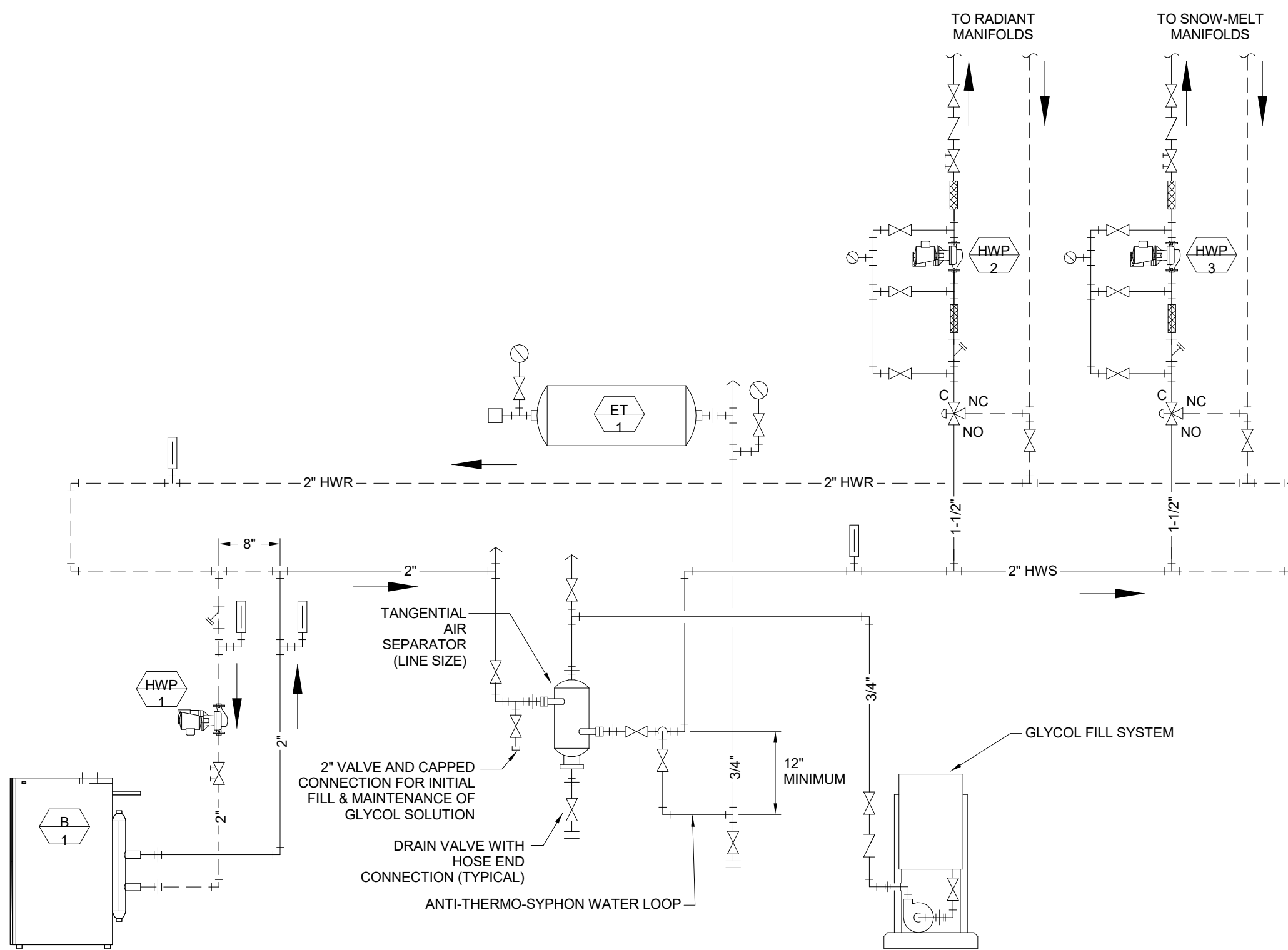
NOT TO SCALE



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

A7 DUCT BRANCH CONNECTION

NOT TO SCALE



A2 Radiant Piping Schematic

NOT TO SCALE

A2

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

FILE PATH: BW 380-\\18225R21001_LeesSummitFireStation_#4 and #5\\LSMO_FireStation_5_MEP_V19.rvt

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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)					

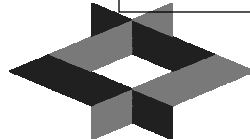
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Development Services Department

Lee's Summit, Missouri

01/10/2023



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18225R21001

DATE:

10.20.2022

DRAWN BY:

JL

CHK'D BY:

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MECHANICAL SCHEDULES

M402

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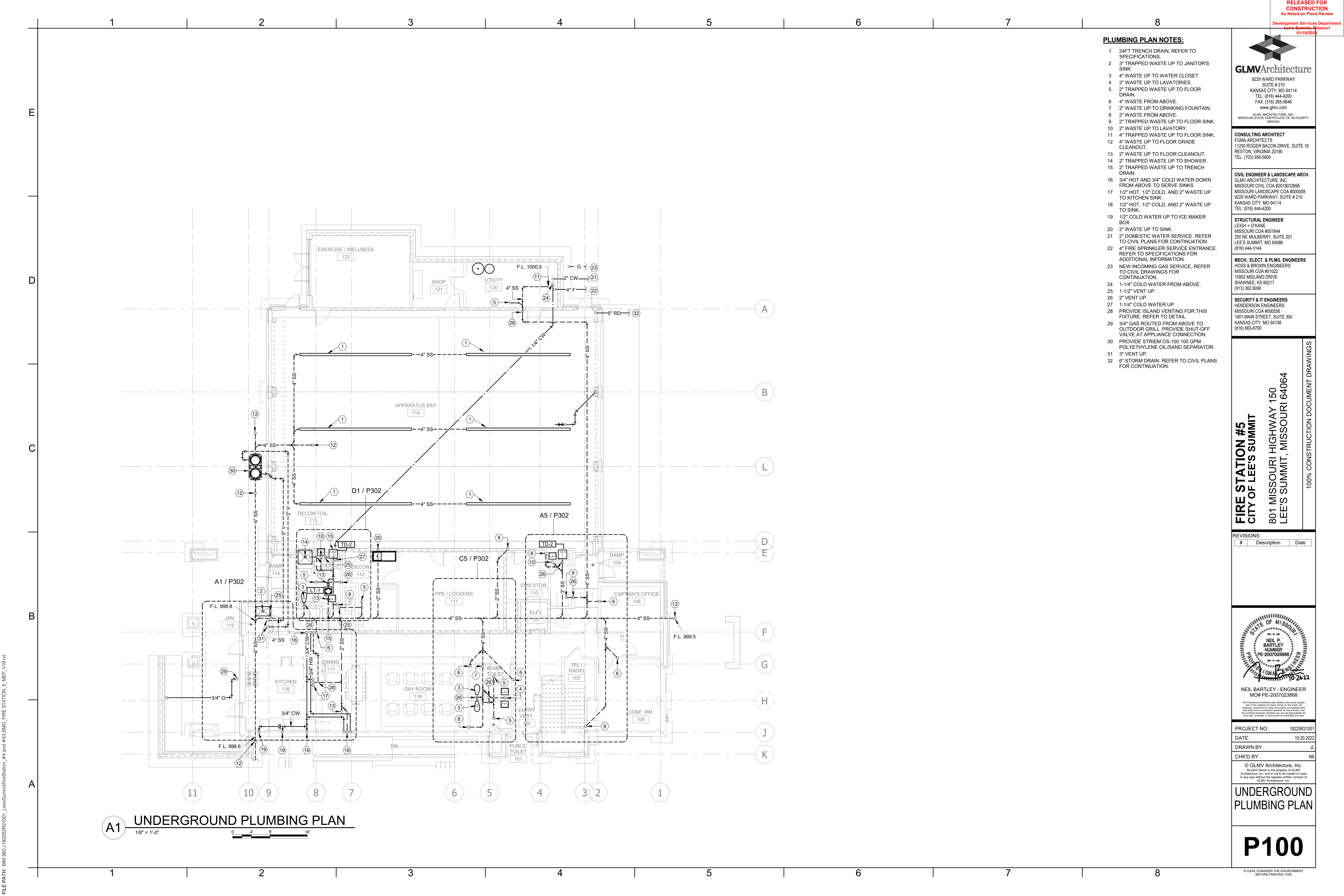
PLUMBING
SYMBOLS
LEGEND

P001

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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. WALL CLEANOUT 12" AFF TOILET COLD WATER SUPPLY ROUGH-IN 12" AFF HOSE BIBBS 36" AFF TO CENTER	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
ANNOTATIONS	PIPING
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 w/ WASTE CONNECTION SIZE	WASTE LINE ABOVE FLOOR WASTE LINE BELOW FLOOR GREASE WASTE LINE ABOVE FLOOR GREASE WASTE LINE BELOW FLOOR VENT LINE DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RECIRC. DOMESTIC TEMPERED HOT WATER 140 DEGREE DOMESTIC HOT WATER ROOF DRAIN ABOVE FLOOR ROOF DRAIN BELOW FLOOR ACID WASTE ABOVE FLOOR ACID WASTE BELOW FLOOR ACID VENT BELOW FLOOR COMPRESSED AIR NATURAL GAS DOMESTIC WATER SERVICE CONDENSATE DRAIN
ABBREVIATIONS	PLUMBING EQUIPMENT
AD ACCESS DOOR ADA AMERICANS WITH DISABILITIES ACT AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION BAS BUILDING AUTOMATION SYSTEM BFF BELOW FINISHED FLOOR BFG BELOW FINISHED GRADE BOP BOTTOM OF PIPE BOS BOTTOM OF STRUCTURE CP CONDENSATE PUMP DEMO DEMOLITION DFU DRAINAGE FIXTURE UNIT DN DOWN DS DOWNSPOUT ETR EXISTING TO REMAIN EWC ELECTRIC WATER COOLER FD FLOOR DRAIN FFA FROM FLOOR ABOVE FFB FROM FLOOR BELOW FL FLOW LINE FLA FULL LOAD AMPS FR FROM GPM GALLONS PER MINUTE HD HEAD, HUB DRAIN IE INVERT ELEVATION IN WC INCHES OF WATER COLUMN MBH 1000 BTU PER HOUR MH MANHOLE N/A NOT APPLICABLE NIC NOT IN CONTRACT N/O, N/C NORMALLY OPEN, NORMALLY CLOSED ORD OVERFLOW ROOF DRAIN PROVIDE FURNISH AND INSTALL PRV PRESSURE REDUCING VALVE PSI POUNDS PER SQUARE INCH QTY QUANTITY RCP REINFORCED CONCRETE PIPE RD ROOF DRAIN SF SQUARE FEET SP SUMP PUMP SS STAINLESS STEEL, SERVICE SINK, SANITARY SEWER STM STEAM TDH TOTAL DYNAMIC HEAD TFA TO FLOOR ABOVE TFB TO FLOOR BELOW UL UNDERWRITERS LABORATORIES UNO UNLESS NOTED OTHERWISE VFD VARIABLE FREQUENCY DRIVE VS VENT STACK VTR VENT THROUGH ROOF WC WATER COLUMN, WATER CLOSET WH WALL HYDRANT WS WASTE STACK	FLUSH FLOOR CLEANOUT FLUSH GRADE CLEANOUT WALL CLEANOUT OVERFLOW ROOF DRAIN ROOF DRAIN FLUSH DRAIN FLOOR SINK HOSE BIB WALL HYDRANT PLUMBING FIXTURE (REFER TO SCHEDULE)
LINETYPE LEGEND	THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.
EXISTING TO REMAIN NEW WORK DEMOLISH	



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

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(816) 663-8700

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

100% CONSTRUCTION DOCUMENT DRAWINGS

#	Description	Date

NEIL BARTLEY - ENGINEER
MO# PE-2007023868

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

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UNDERGROUND PLUMBING PLAN

P100

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FILE PATH: BM 380-118225R21001_LeeSummitFireStation_#4 and #5LSMO_FIRE STATION_5_WF_V19.rvt

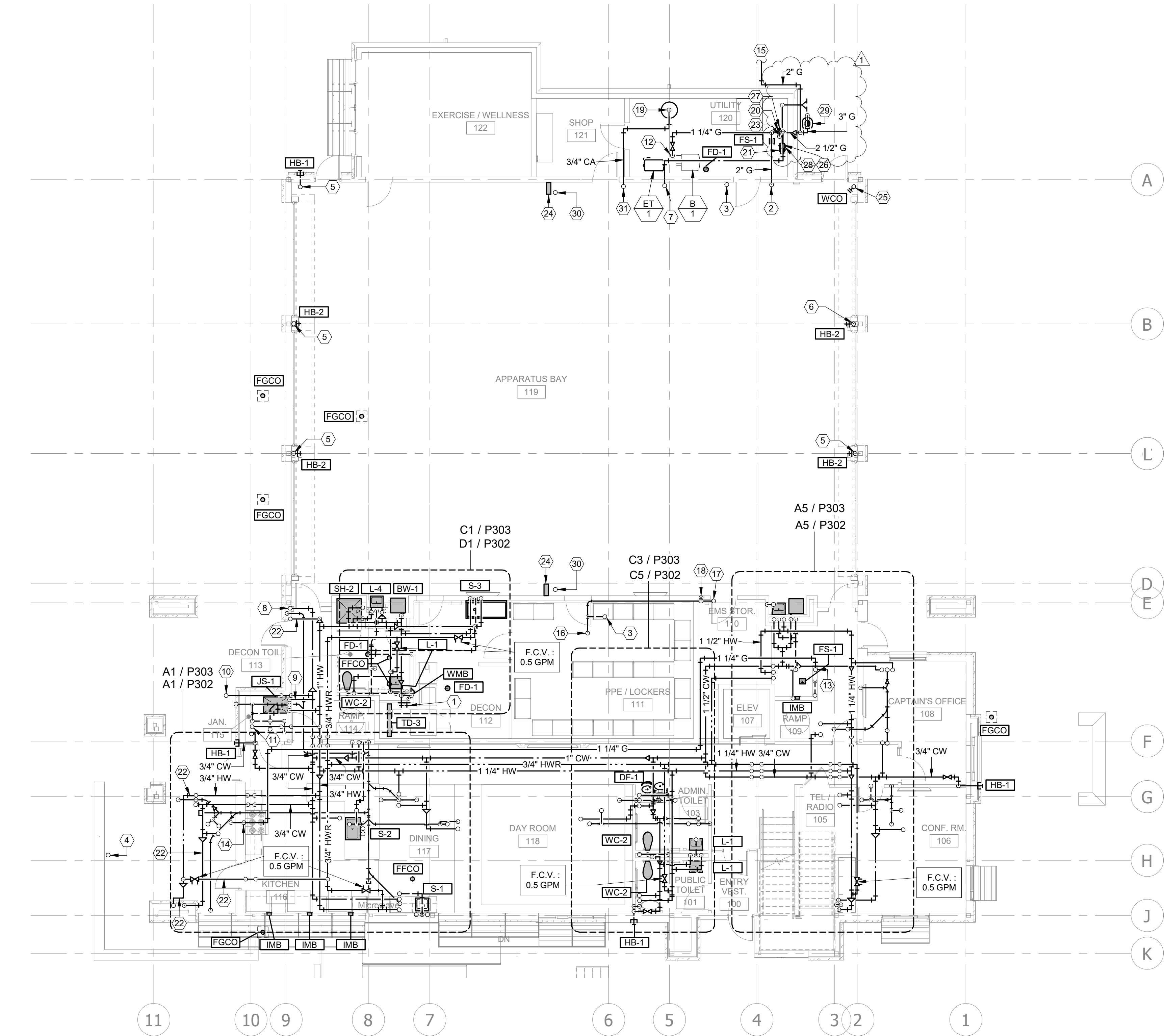
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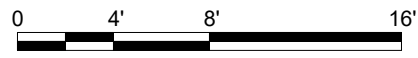
C

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 PIPING DOWN TO COMPRESSOR.
- 20 2" DOUBLE-CHECK BACKFLOW PREVENTER SERVING DOMESTIC WATER TO BE MOUNTED IN VERTICAL POSITION.
- 21 4" DOUBLE-CHECK BACKFLOW PREVENTER SERVING FIRE PROTECTION TO BE MOUNTED IN VERTICAL POSITION.
- 22 ROUTE DOMESTIC WATER THROUGH WARM SIDE OF INSULATION IN CEILING.
- 23 1-1/4" DOMESTIC COLD WATER DOWN BELOW GRADE WITH SHUT OFF VALVE.
- 24 AIR HOSE REEL, REFER TO SPECS.
- 25 6" STORM DRAIN DOWN BELOW GRADE.
- 26 4" FIRE PROTECTION WATER SERVICE MAIN FROM BELOW. REFER TO BELOW GRADE PLUMBING PLAN, SHEET P-100, FOR CONTINUATION.
- 27 2" DOMESTIC WATER SERVICE UP. SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
- 28 4" FIRE SERVICE UP. SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
- 29 NEW GAS SERVICE AND METER.
- 30 1/2" COMPRESSED AIR DOWN TO HOSE REEL.
- 31 3/4" COMPRESSED AIR UP.

RELEASED FOR CONSTRUCTION

As Noted on Plans Review

Development Services Department

Lee's Summit, Missouri

01/10/2023

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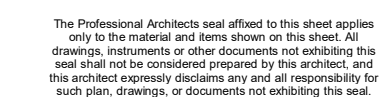
FIRST FLOOR PLUMBING PLAN

P101

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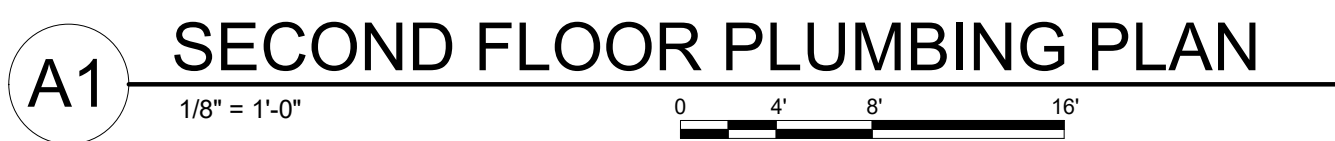
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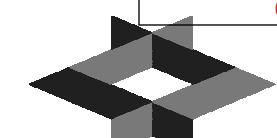


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- 1 1/2" COMPRESSED AIR DOWN TO HOSE REEL.
- 2 3" PIPE UP TO ROOF DRAIN.
- 3 6" PIPE UP TO ROOF DRAIN.
- 4 2" NATURAL GAS FROM BELOW.
- 5 1-1/2" COLD WATER FROM BELOW.
- 6 3/4" COMPRESSED AIR DOWN.
- 7 3/4" COLD WATER DOWN.
- 8 2" GAS UP TO ROOF.
-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





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PLUMBING DETAILS

P301

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SPECIFICATIONS

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

NOTES

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

DIFFUSION FLOW TECHNOLOGY

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

ENGINEER SPECIFICATION GUIDE

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

THIRD PARTY STRUCTURAL ANALYSIS

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

OPTIONS

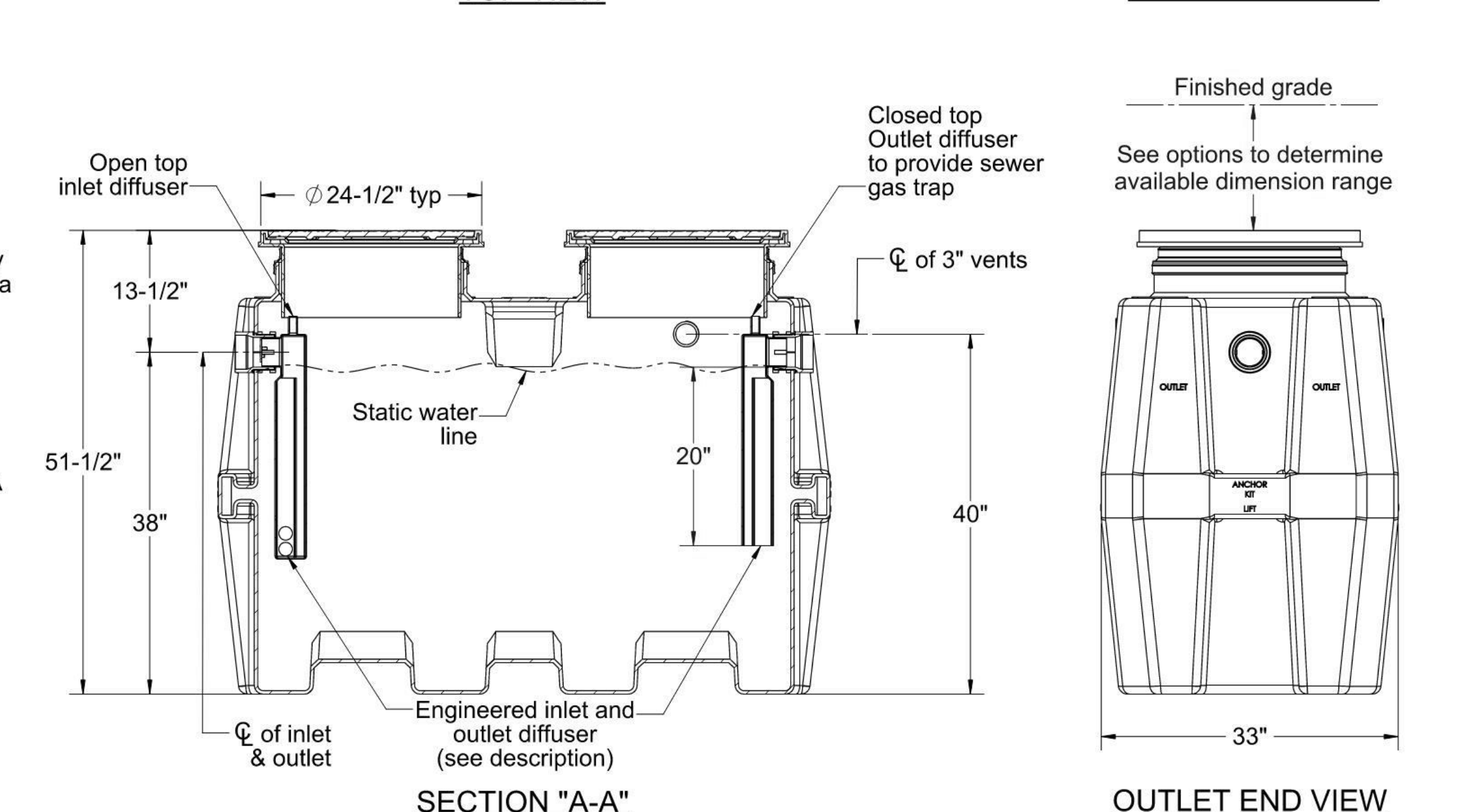
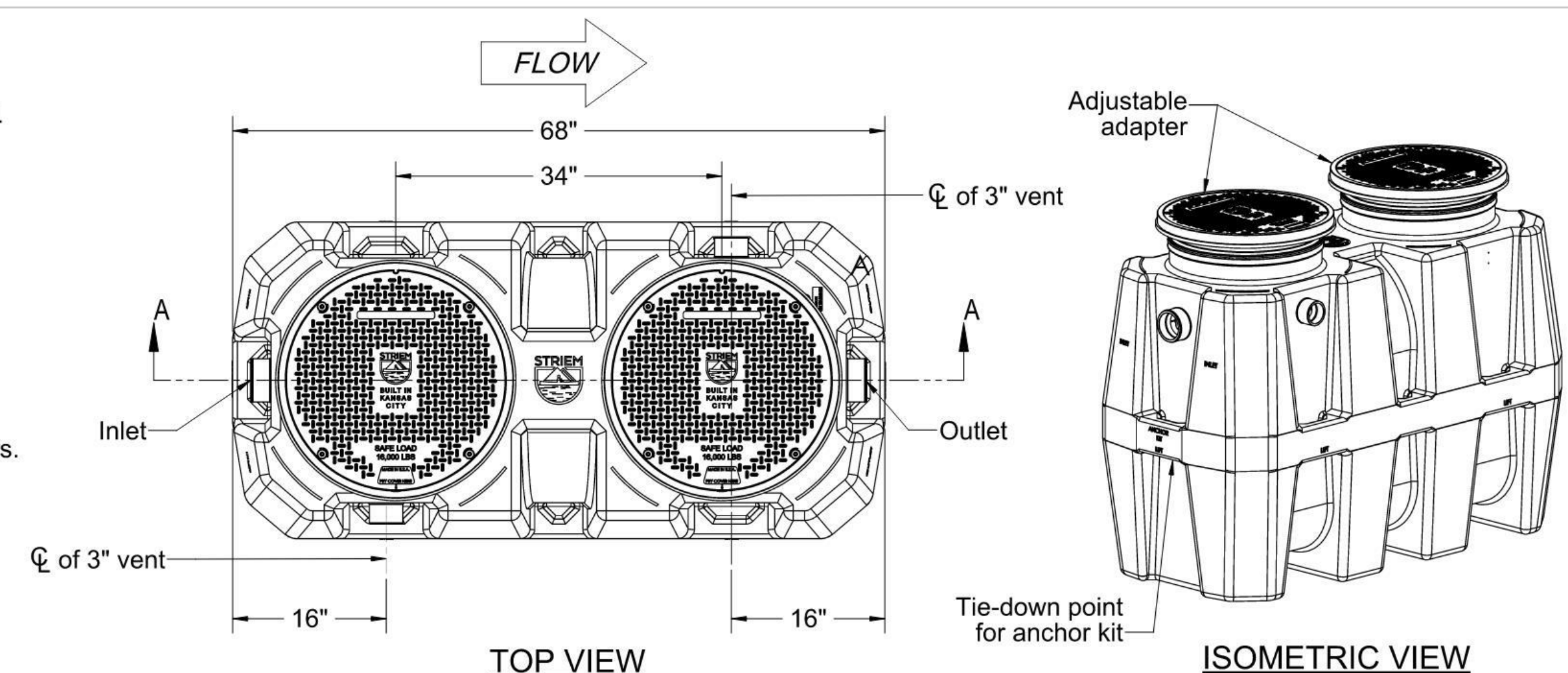
- ☐ 4M - 4" Male Thread Inlet / Outlet
- ☐ 6P - 6" Plain End SCH.40 Inlet / Outlet
- ☐ 6M - 6" Male Thread Inlet / Outlet
- ☐ C24-HP (2) - H20 Rated Pickable Cast Iron Cover
- ☐ CC24 (2) - Integral Membrane Clamping Collar Kit
- ☐ CS3 - Clean Sweep Coalescing Media (single)*
- ☐ CS6 - Clean Sweep Coalescing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

*Clean Sweep Coalescing Media not compatible with CPRK

RISER OPTIONS

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

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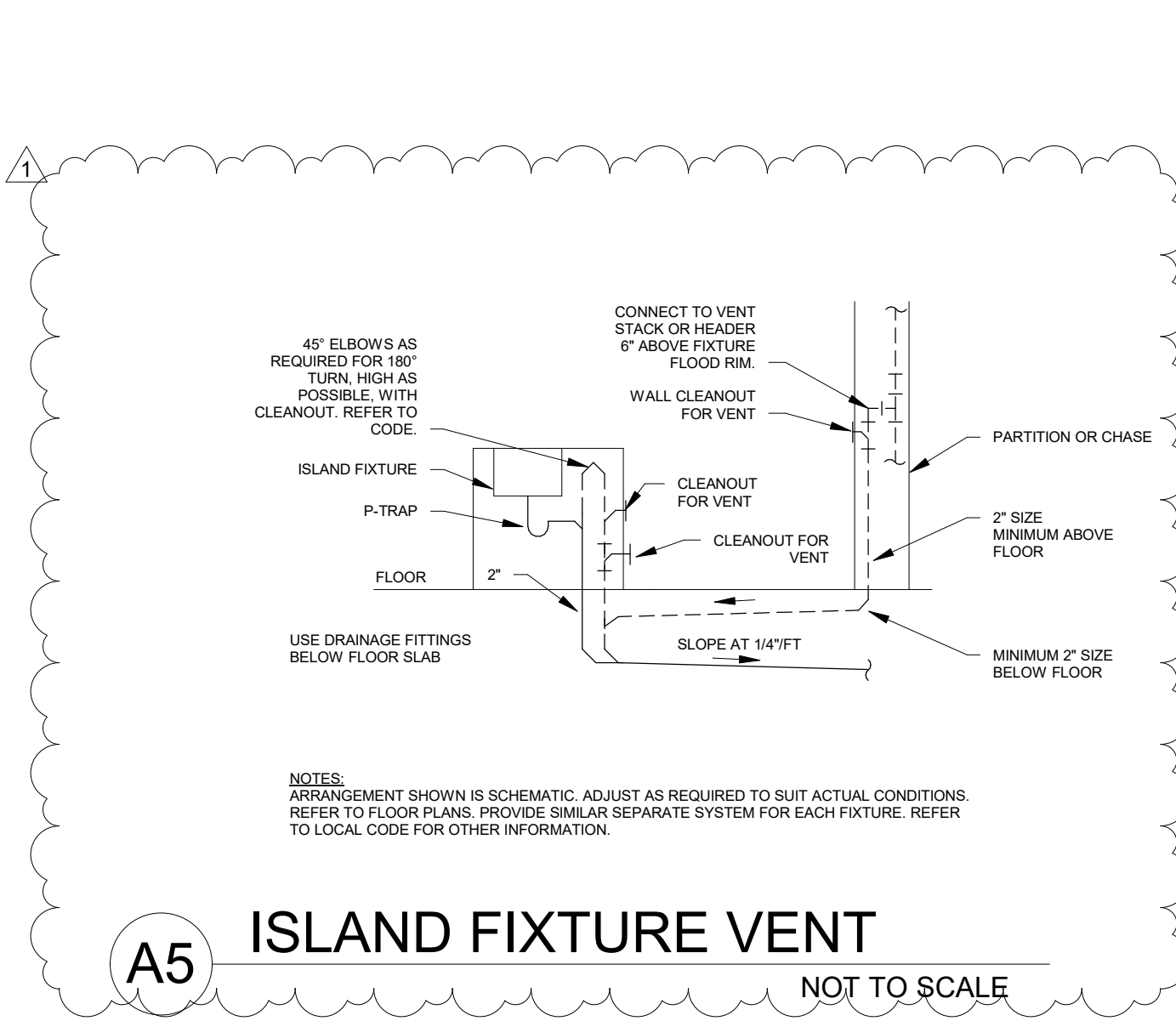
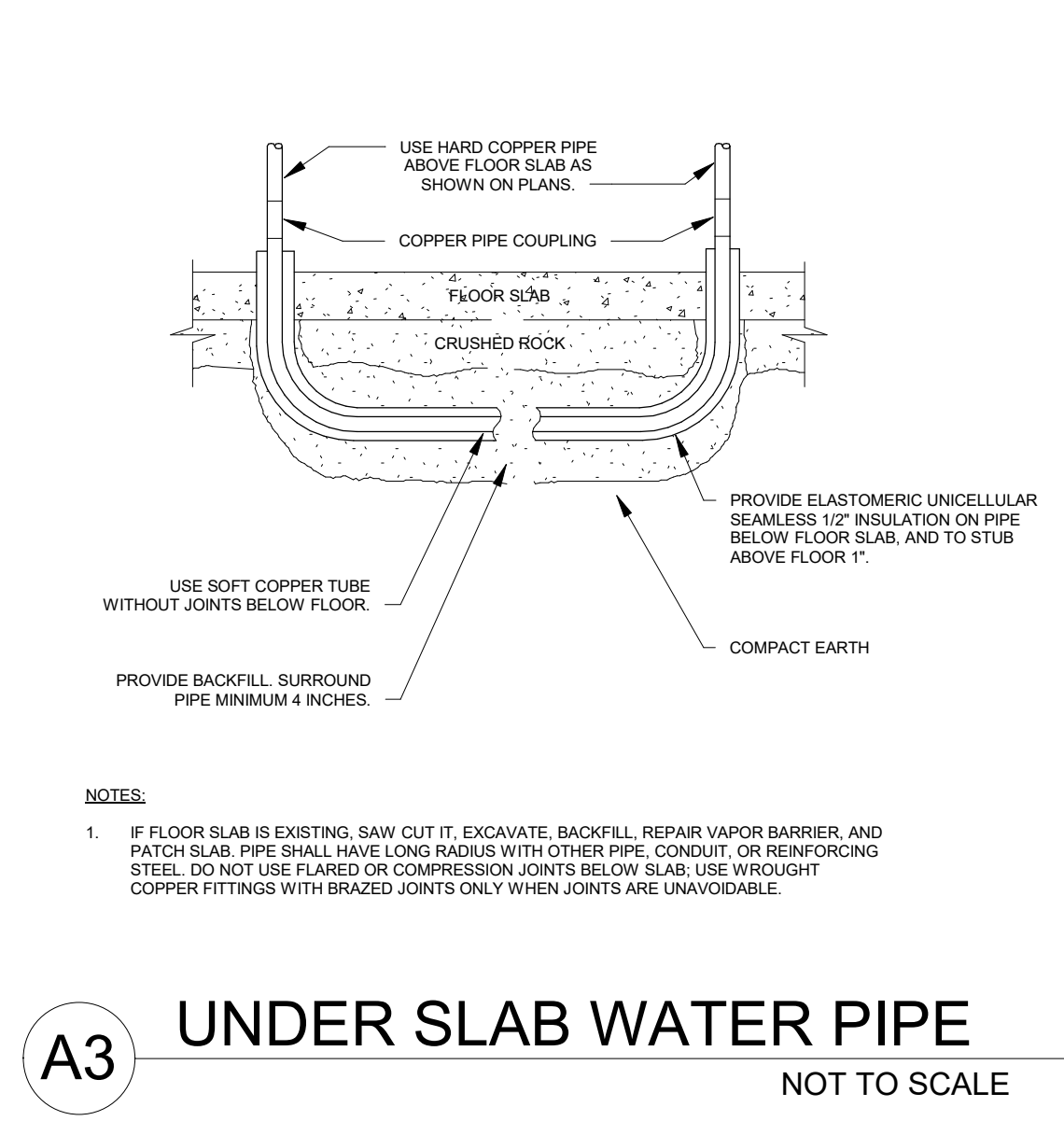
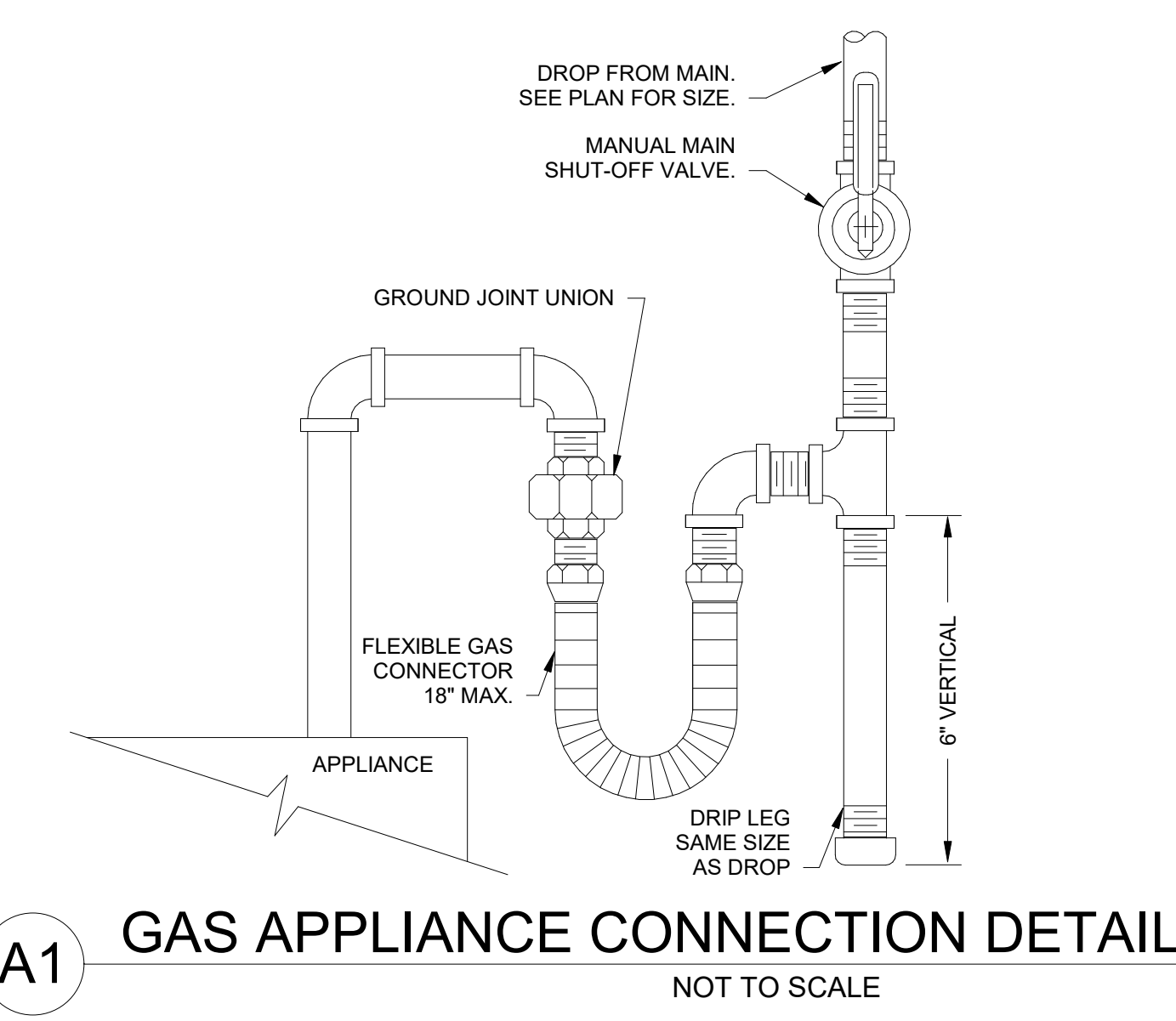


MODEL NUMBER:	OS-100
DESCRIPTION:	100 GPM POLYETHYLENE OIL/SAND SEPARATOR
DWG BY:	MJ
DATE:	12/09/2020
REV:	0
ECO:	

SPECIFICATION SHEET

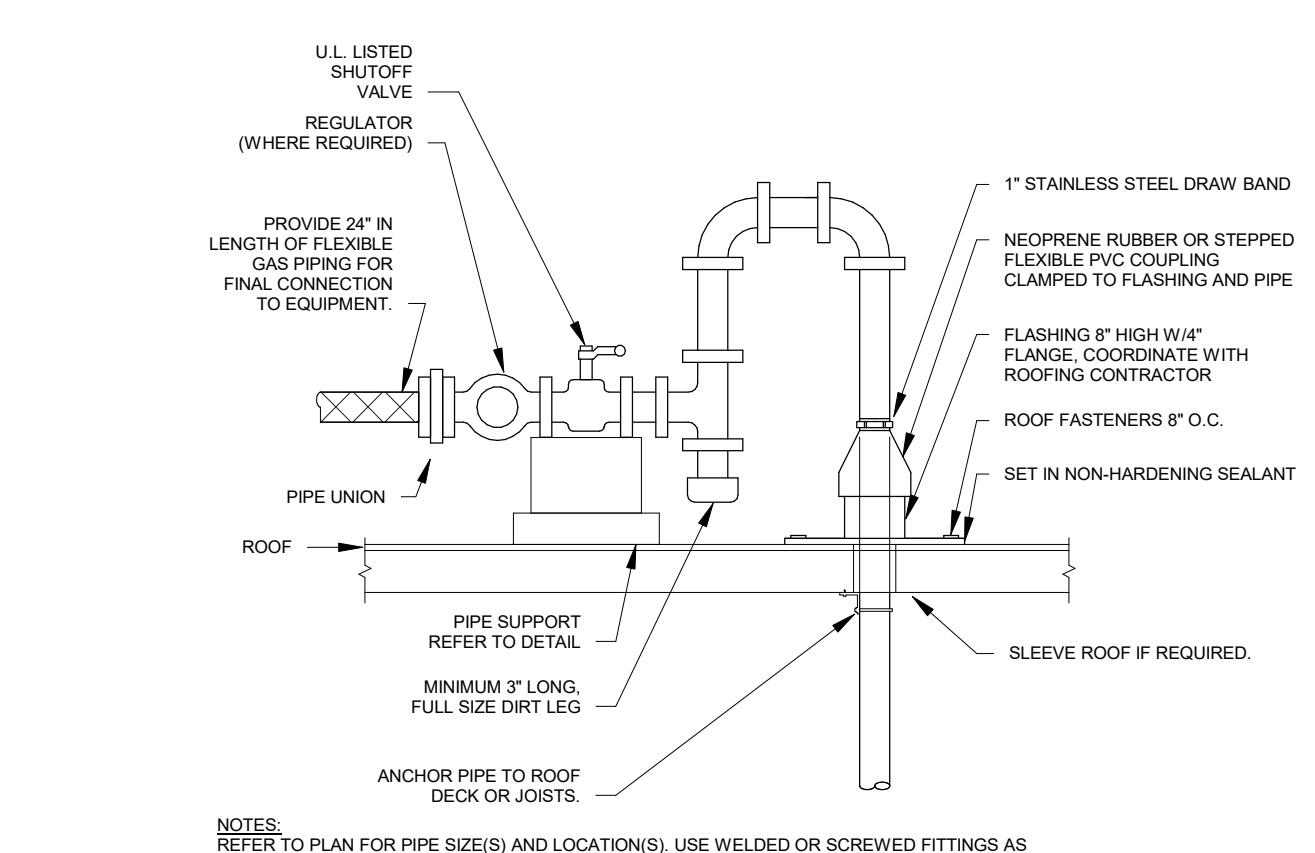
Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
orders@striemco.com
www.striemco.com

Made in the U.S.A



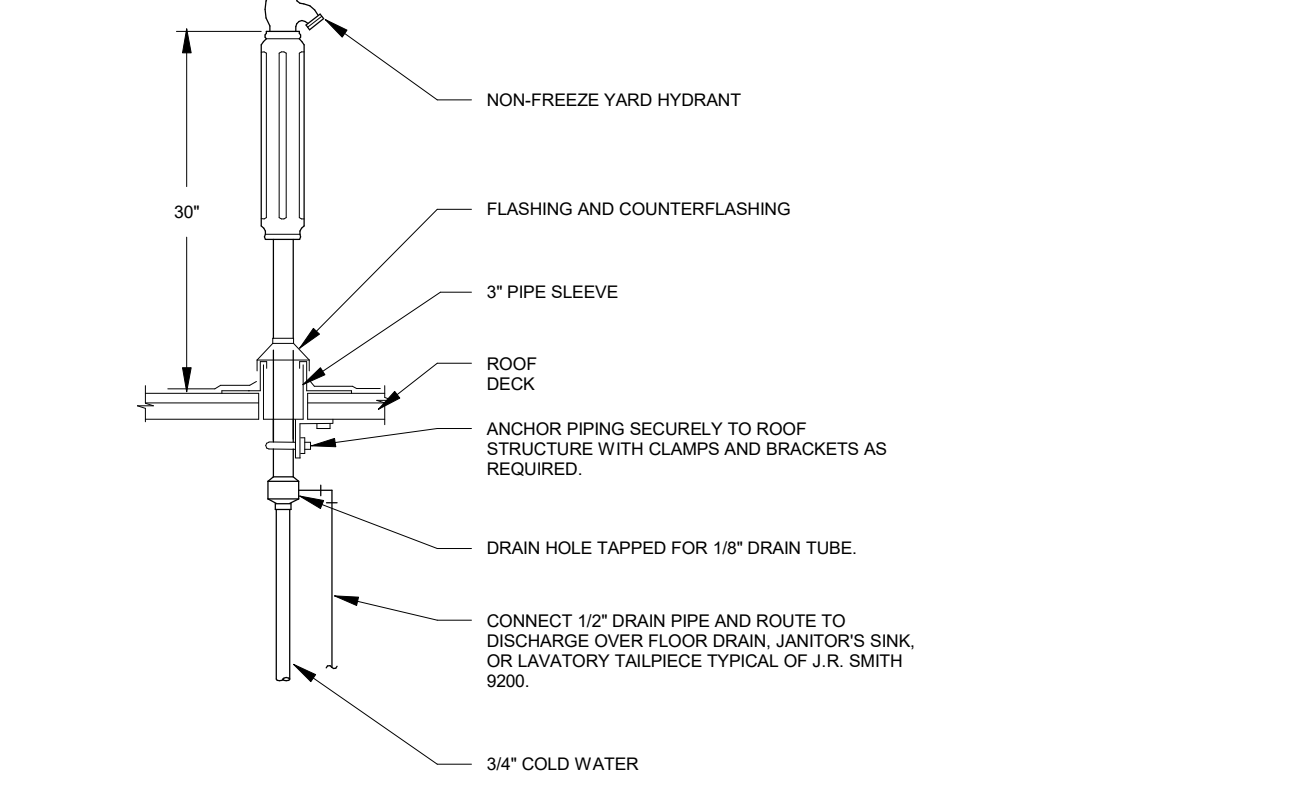
D7 TRENCH DRAIN DETAIL

NOT TO SCALE



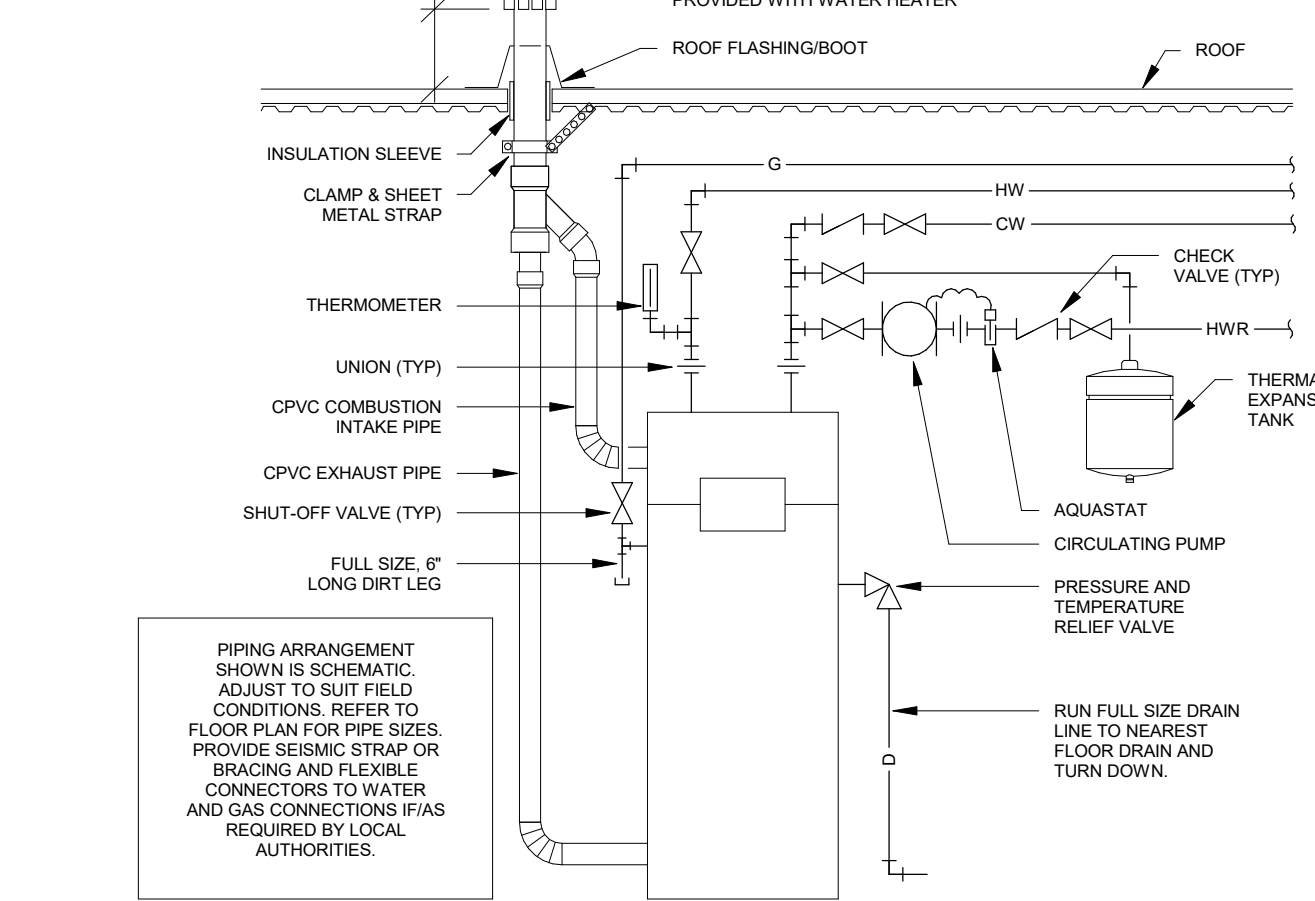
C7 GAS PIPE THRU ROOF

NOT TO SCALE



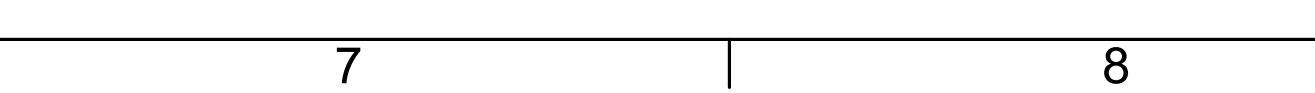
B7 ROOF HYDRANT

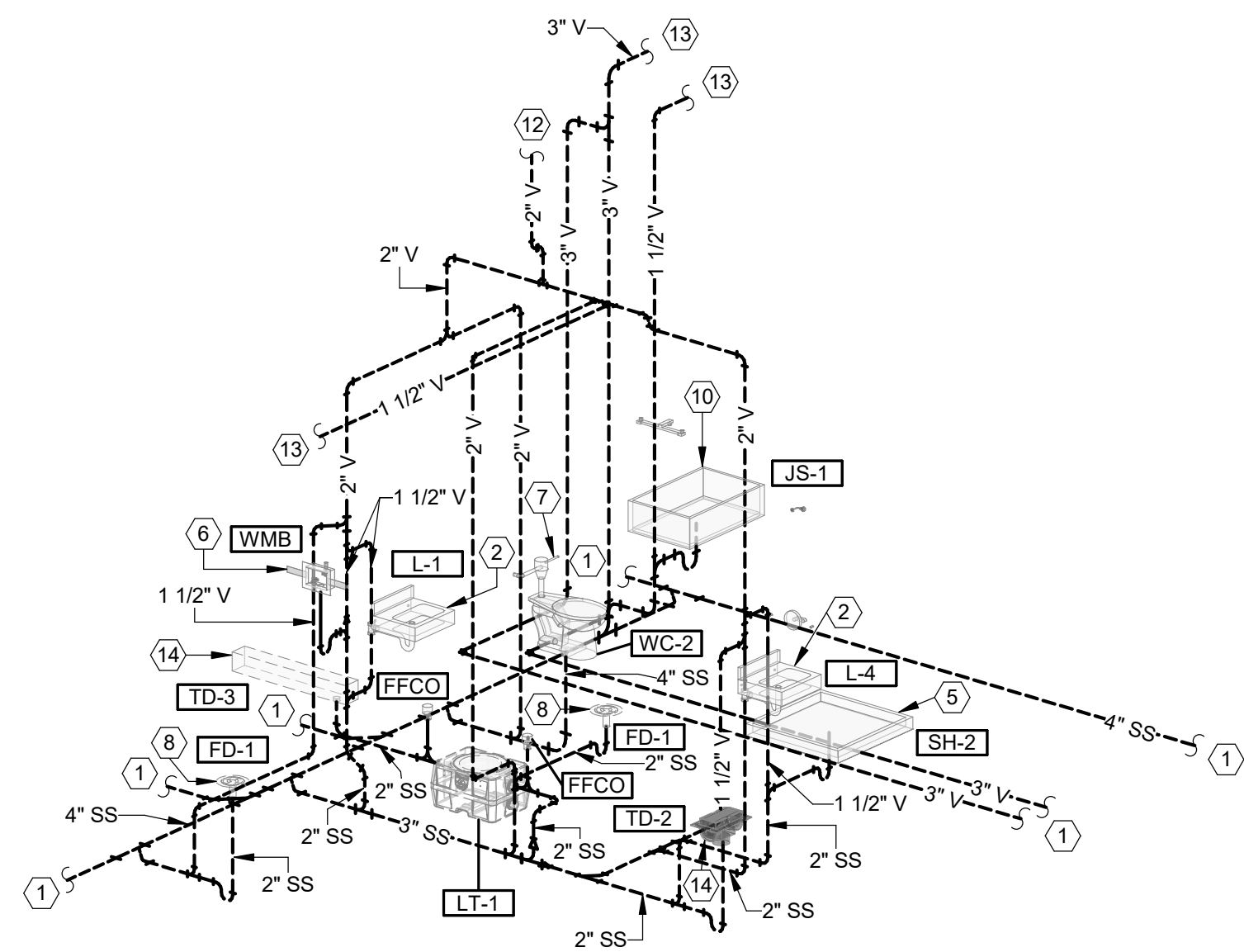
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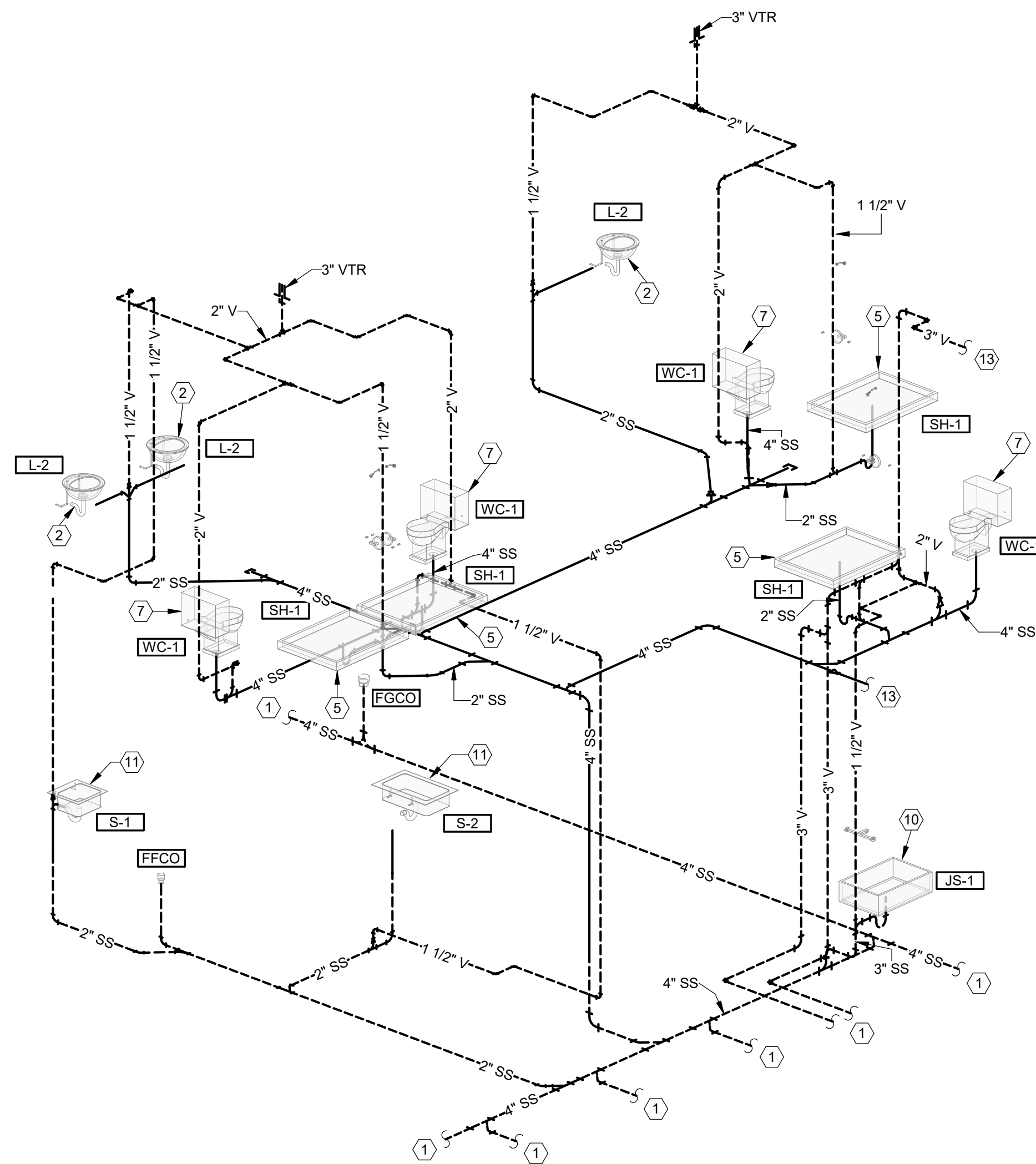
A7 GAS WATER HEATER AND HIGH EFF VENT ROOF

NOT TO SCALE

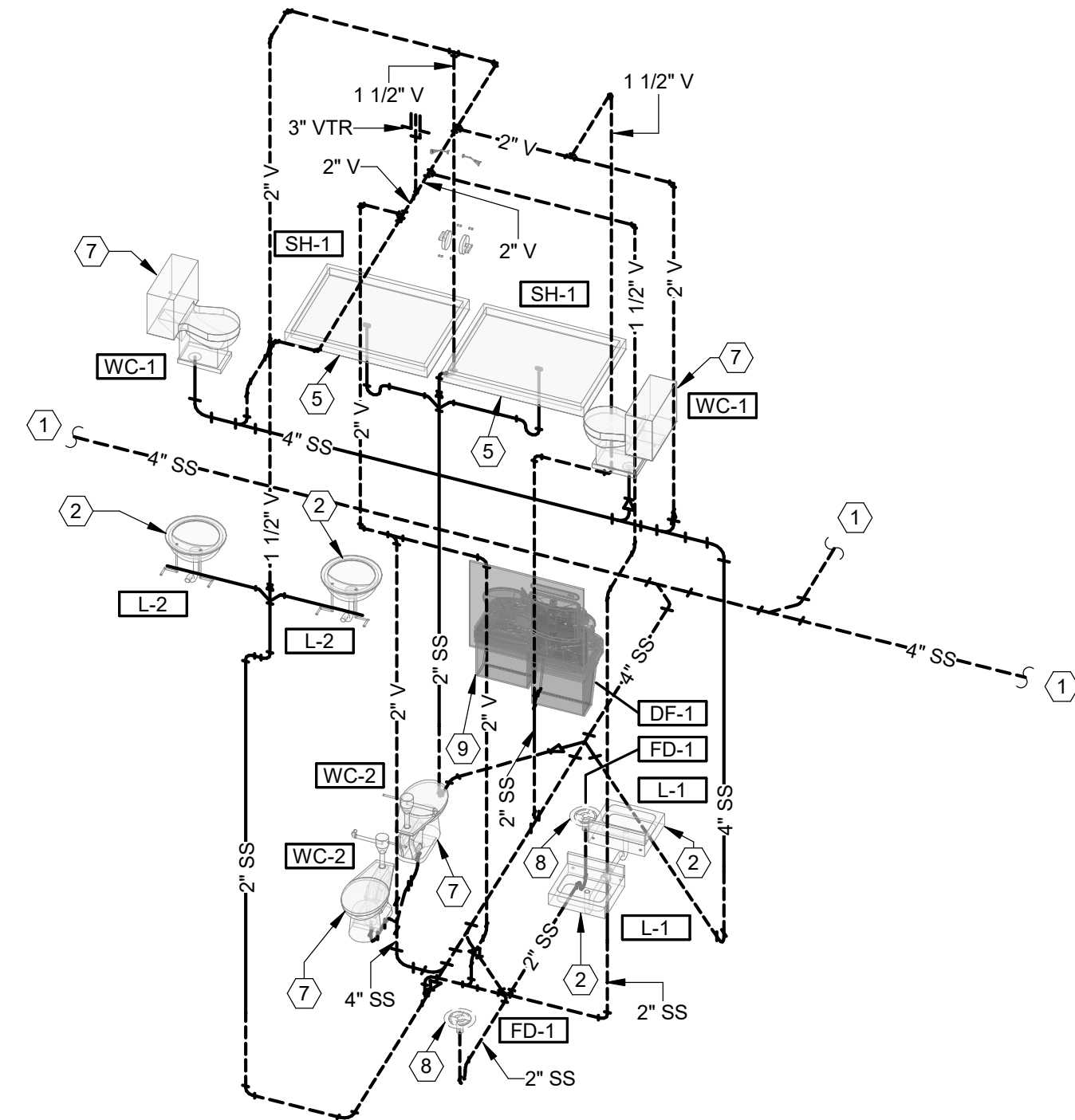




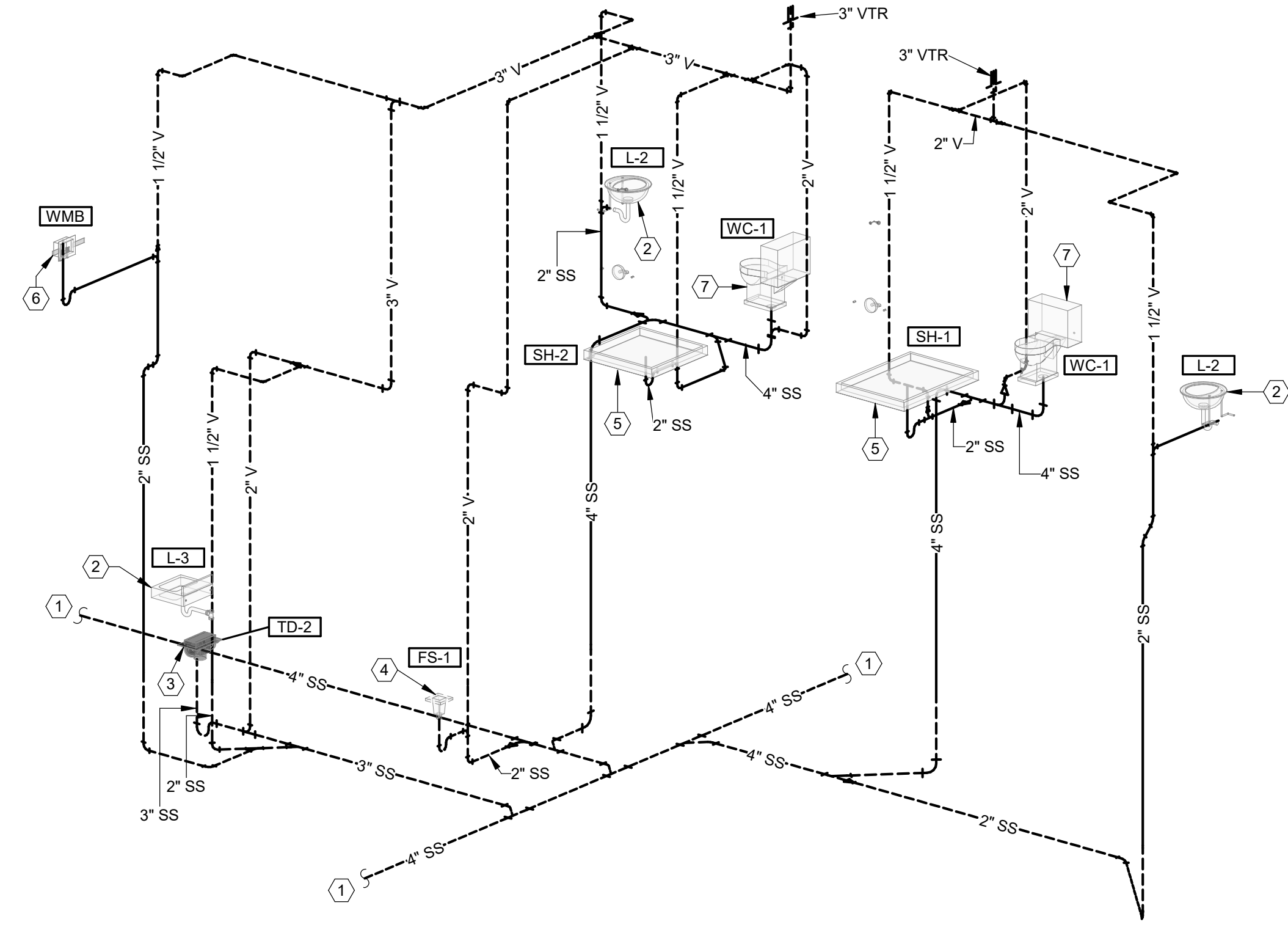
D1 WASTE AND VENT RISER 4
NOT TO SCALE



A1 WASTE AND VENT RISER 3
NOT TO SCALE



C5 WASTE AND VENT RISER 2
NOT TO SCALE



A5 WASTE AND VENT RISER 1
NOT TO SCALE

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



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WASTE AND VENT RISERS

P302



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E

D

C

B

A

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

TOTAL CONNECTED GAS LOAD

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

PIPE INSULATION

INSULATION	DESCRIPTION
TYPE 1	FIBER GLASS RIGID MOLDED INSULATION - JOHNS-MANVILLE MICRO-LOK, ASJ JACKET, K-VALUE = 0.23, MAX SERVICE TEMP = 850°F VAPOR TRANSMISSION = 0.02 PERMS MAX, COMPLIES WITH ASTM C 547, CLASS 3, AND ASTM C1136 TYPE 1
TYPE 2	PVC JACKETS, HIGH-IMPACT-RESISTANT, UV-RESISTANT, 30 MILS THICK, 1" OVERLAP AT LONGITIDINAL SEAMS AND END JOINTS COMPLIES WITH ASTM D 1784 AND CLASS 16354-C
TYPE 3	ALUMINUM JACKETS, 0.016" THICK, EMBOSSED FINISH, LONGITUDINAL SLIP JOINTS AND 2" LAPS
TYPE 4	COMPLIES WITH ASTM B 209
TYPE 5	ISULATED PIPE SUPPORTS, 360° PRE-MOLDED PIPE SUPPORTS. VAPOR BARRIER AND GALVANIZED STEEL SHIELD. FOR > 1 1/2" PIPES MINIMUM COMPRESSIVE STRENGTH: 100 PSIG FOR PIPE SIZE <6", 450 PSIG FOR PIPE SIZE 6" AND LARGER LAVATORY PIPING COVERS - HANDICAPPED LAVATORY P-TRAPS AND HOT/COLD WATER LINES SHALL BE INSULATED WITH TRUEBRO LAV GUARD 2, FULLY MOLDED VINYL INSULATION SYSTEM. VINYL THICKNESS = 0.125", ADA COMPLIANT, MEETING ASTM D-635, ASTM G21, ASTM G22, COLOR SHALL BE CHINA WHITE AND PAINTABLE WITH LATEX PAINT.

INSULATED PIPE SUPPORTS

PIPE SIZE	INSERT LENGTH	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:

- 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)
- SEAL LONGITUDINAL SEAMS, ENG JOINTS AND PROTRUSIONS WITH VAPOR-BARRIER MASTIC AND JOINT SEALANT.
- PIPE INSERT THICKNESS SHALL BE EQUAL TO THE ADJOINING INSULATION THICKNESS.

GENERAL NOTES: (APPLY ALL TO ABOVE)

- 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.
- INSTALL ALL PIPE INSULATION PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
- INSTALL INSULATION CONTINUOUSLY THROUGH PENETRATIONS
- PROVIDE LAVATORY PIPING COVERS AT ALL ADA ACCESSIBLE SINKS AND LAVATORIES

PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTIONS				NOTES
					CW	HW	W	V	
WC-1	ADA FLOOR MOUNTED FLUSH TANK 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
		KOHLER	K-5310-0						
		TOTO	CST454CEFG						
WC-2	ADA FLOOR MOUNTED FLUSH VALVE WATER CLOSET	AMERICAN STANDARD	MADERA 3043.001	FLUSH VALVE: FV-1 CHURCH 9500C OPEN FRONT SEAT TOTO SC534 OPEN FRONT SEAT	1-1/4"	--	4"	2"	4, 9
		KOHLER	K-96057-0						
		TOTO	CT705ELN						
FV-1	BATTERY POWERED SENSOR WATER CLOSET FLUSH VALVE	SLOAN	G2 811-1.6	1.6 GALLONS PER FLUSH	--	--	--	--	
		ZURN	ZER6000AV-TM-WS1						
		TOTO	TET1GA						
L-1	WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	FAUCET: F-7 20X18 BASIN, CONCEALED ARM CARRIER, MIXING VALVE MV-1	--	--	2"	1-1/2"	2
		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
		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
		KOHLER	KINGSTON K-2005						
		TOTO	LT307						
S-1	ADA SINGLE BOWL 18 GAUGE 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
		DELTA	501/520/523-WFHDF						
		ZURN	SIERRA Z-7440-VP						
F-2	HANDS FREE LAVATORY FAUCET	TOTO	TEL105-D10E	0.5 GPM, SELF-GENERATING THERMOSTATIC MIXING 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
		DELTA	400-WFELHHDF						
		MOEN	BANBURY 87017	2.5 GPM, 8" CENTERS					
F-4	ADA TWO-HANDLE WALL-MOUNT SINK FAUCET	DELTA	28T6443	SWING SPOUT MOUNT ON BACKSPLASH	1/2"	1/2"	--	--	
		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"	--	--	
		FIAT	830-AA						
		DELTA	28T9-AC						
F-6	TUB TYPE SINK FAUCET	FIAT	A-1	DECK FAUCET 4" CENTERS	3/4"	3/4"	--	--	
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	--	--	--	--	
		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	--	--	--	--	
		ZURN	Z-1910						
		SMITH	3100						
TD-1	TRENCH DRAIN	SMITH	9940-DCG-3	6" WIDE POLYPROPYLENE CHANNEL w/COATED STEEL FRAME RADIOUS 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"	--	

WATER HEATER SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	INPUT (BTU/H)	EFFICIENCY	RECOVERY (GPH)	VOLT/ PHASE
WH-1	A.O. SMITH	BTH-199	100	199.0	0.96	261.0	120/1
GENERAL NOTES (APPLIES TO ALL ABOVE):							
A. PROVIDE ASME PRESSURE AND TEMPERATURE RELIEF VALVE.							
B. PROVIDE DIELECTRIC CONNECTIONS AT WATER HEATER.							
C. ALL WATER HEATERS 200 MBH OR LARGER SHALL HAVE ASME RATING.							
D. RESTROOM RECOVERY BASED ON 90 DEGREE TEMPERATURE RISE.							
E. PROVIDE CONDENSATE DRAIN FOR FLUE VENT CONDENSATE WITH A 2" TRAP. PROVIDE A CONDENSATE NEUTRALIZATION KIT FOR FLUE VENT CONDENSATE DRAIN.							



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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 6

FILE PATH: B:\380-1\18225R21001_LeeSummitFireStation_#4 and #5\LSMO_FIRE STATION_5_WEP_V19.rvt

ELECTRICAL MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS

CONTROLS (TOP OF DEVICE)	48"
RECEPTACLES	18"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (GARAGES)	24"
RECEPTACLES (ABOVE COUNTER)	4" ABOVE BACKSPLASH/COUNTER
RECEPTACLES IN EQUIPMENT ROOMS	44"
DATA OUTLETS	SAME AS ADJACENT DEVICE, UNO
TELEVISION OUTLETS	REFER TO ARCH DRAWINGS

DEFAULT MOUNTING HEIGHTS SHOWN ABOVE TO BE USED UNLESS NOTED OTHERWISE BY ARCHITECT OR IN CONSTRUCTION DOCUMENTS. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

INSTALLATION HEIGHT OF ALL FIRE ALARM DEVICES SHALL BE AS REQUIRED BY THE LATEST EDITION OF NFPA 72. COORDINATE WITH EQUIPMENT MANUFACTURER BASED ON ACTUAL PROVIDED EQUIPMENT.

ANNOTATIONS

	INDICATES CONNECTION TO EXISTING SYSTEM
	INDICATES DEMO FROM EXISTING SYSTEM
	PLAN NOTE REFERENCE
	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
	SECTION REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
	MECHANICAL EQUIPMENT DESIGNATION

ABBREVIATIONS

AD	ACCESS DOOR
AF	AMPERE FRAME SIZE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AS	AMPERE SWITCH
AT	AMPERE TRIP SETTING
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
DEMO	DEMOLITION
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
FCA	FAULT CURRENT AMPS AVAILABLE
FLA	FULL LOAD AMPS
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
G	GROUND
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MGB	MAIN GROUNDING BUSBAR
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
N/A	NOT APPLICABLE
NF	NON-FUSED
NL	NIGHT LIGHT (24 HR ON)
P	POLE
PH/Ø	PHASE
PNLBD	PANELBOARD
PROVIDE	FURNISH AND INSTALL
PT	POTENTIAL TRANSFORMER
QTY	QUANTITY
RCPT	RECEPTACLE
RLA	RUNNING LOAD AMPS
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DETECTOR
SF	SQUARE FEET
SPD	SURGE PROTECTION DEVICE
ST	SHUNT TRIP
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUND BUSBAR
TMG8	TELECOMMUNICATIONS MAIN GROUND BUSBAR
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VD	VOLTAGE DROP
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE

LINETYPE LEGEND

	EXISTING TO REMAIN
	NEW WORK
	DEMOLISH

LIGHTING

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

LIGHTING CONTROL DEVICES

	SINGLE POLE SWITCH
	SWITCH, LETTER DESIGNATION AS FOLLOWS:
	2 = TWO POLE 3 = THREE-WAY 4 = FOUR-WAY D = DIMMER K = KEYED LV = LOW VOLTAGE M = MOMENTARY CONTACT OS = OCCUPANCY SENSOR VA = VACANCY SENSOR WP = WEATHERPROOF MR = MOTOR RATED
	CEILING MOUNT OCCUPANCY/VACANCY SENSOR
	WALL MOUNT OCCUPANCY/VACANCY SENSOR
	EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL DEVICE
	ROOM CONTROLLER - REFER TO SCHEDULE FOR MORE INFORMATION
	POWER PACK - REFER TO SCHEDULE FOR MORE INFORMATION

REFER TO LIGHTING DEVICE SCHEDULE FOR MORE DEVICE INFORMATION.

POWER EQUIPMENT

	ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNTED)
	ELECTRICAL DISTRIBUTION PANELBOARD
	TRANSFORMER - THIN OUTLINE INDICATES EQUIPMENT PAD EXTENDING 6" FROM EQUIPMENT WHERE FLOOR MOUNTED
	DISCONNECT SWITCH - "60/3/60/3R" DENOTES AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB = CIRCUIT BREAKER, NO VALUE FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING
	COMBINATION DISCONNECT SWITCH - "60/3/60/0/3R" DENOTES AMPERES/POLE/FUSE/STARTER SIZE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB = CIRCUIT BREAKER, NO VALUE FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING
	HOME RUN
	CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN

WIRING DEVICES & OUTLETS

CIRCUIT DESIGNATION AS FOLLOWS:	
LP-1 - 5	LP-1 = ASSOCIATED PANEL 5 = CIRCUIT
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	GFCI DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	DOUBLE DUPLEX GFCI RECEPTACLE
	SPECIAL TYPE RECEPTACLE - NEMA TYPE AS NOTED
	CONTROLLED RECEPTACLE
	INDICATES RECEPTACLE PROTECTED BY GFCI BREAKER
	RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPLASH
	RECEPTACLE INSTALLED VIA DROP CORD
RECEPTACLE, LETTER DESIGNATION AS FOLLOWS:	
	EM = EMERGENCY RECEPTACLE H = HORIZONTALLY MOUNTED IG = ISOLATED GROUND USB = USB/DUPLEX WP = WEATHER PROOF COVER WR = WEATHER RESISTANT TR = TAMPER RESISTANT TV = TELEVISION 60" = MOUNTING HEIGHT TO CENTER OF DEVICE
	TOGGLE DISCONNECT SWITCH, RATING AS INDICATED
	TELEPHONE OUTLET
	DATA OUTLET
	DATA / TELEPHONE COMBINATION OUTLET
	DATA OUTLET INSTALLED ABOVE COUNTER OR BACKSPLASH
	WIRELESS ACCESS POINT
	MULTI-SERVICE FLOOR BOX WITH DATA AND POWER OUTLETS; A = TYPE
	MULTI-SERVICE POKE THROUGH WITH DATA AND POWER OUTLETS; A = TYPE
	JUNCTION BOX (JBOX)
	EMERGENCY POWER OFF BUTTON

FIRE ALARM DEVICES

	FIRE ALARM RELAY
	WATER FLOW SWITCH
	VALVE TAMPER SWITCH
	FAN SHUTDOWN RELAY
	FIRE ALARM STROBE - WALL MOUNTED
	FIRE ALARM STROBE - CEILING MOUNTED
	MANUAL FIRE ALARM PULL STATION
	FIRE ALARM BELL
	FIRE HORN AND STROBE - WALL MOUNTED
	FIRE HORN
	FIRE SPEAKER - WALL MOUNTED
	FIRE SPEAKER - CEILING MOUNTED
	FIRE SPEAKER AND STROBE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	CARBON DIOXIDE DETECTOR
	CEILING SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	THERMAL DETECTOR (HEAT)
	ELECTRIC DOOR HOLDER
	FIREMAN'S TELEPHONE OUTLET
	KNOX BOX

NURSE CALL

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

SECURITY

COMMUNICATION

ELECTRICAL ONE-LINE & RISER DIAGRAM

	FEEDER SYMBOL - REFER TO FEEDER SCHEDULE
	UTILITY METER (AS REQUIRED BY UTILITY)
	SURGE PROTECTION DEVICE
	GROUND CONNECTION
	MOTOR
	CIRCUIT BREAKER (RATING AS INDICATED)
	FUSED DISCONNECT SWITCH (RATING AS INDICATED)
	TRANSFORMER (TYPE AND RATINGS AS INDICATED)
	AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)
	GENERATOR (RATINGS AS INDICATED)
	NON-SEPARATELY DERIVED SOURCE SEPARATELY DERIVED SOURCE
	PANELBOARD, MULTIPLE SECTIONS WHERE SHOWN (REFER TO SCHEDULES)

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

ELECTRICAL GENERAL NOTES:

- 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.
- ELECTRICAL CONTRACTOR SHALL DE-RATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.
- PROVIDE FIRESTOPPING ON CONDUITS PASSING THROUGH FIRE RATED WALLS AND FLOORS. COORDINATE LOCATION AND RATINGS OF WALLS WITH ARCHITECTURAL DRAWINGS.
- 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.
- ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.
- PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.
- WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.
- 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.
- 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.
- PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL PANELS.
- PROVIDE BLANK COVER PLATES FOR ALL EXISTING OPEN J-BOXES LOCATED IN EXISTING WALL.
- MAINTAIN ALL EXISTING CIRCUIT CONTINUITIES.
- PROVIDE ROUGH-IN BOXES AND CONDUIT FOR THERMOSTATS AS INDICATED.
- REFER TO TELECOMMUNICATION DRAWINGS FOR DATA REQUIREMENTS.
- 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.
- 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.
- GROUND FAULT INTERRUPTER RECEPTACLES SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.8 OF THE 2017 NEC.
- ARC FAULT INTERRUPTER PROTECTION SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.12 OF THE 2017 NEC.
- TAMPER RESISTANT RECEPTACLES SHALL BE PROVIDED AT ALL LOCATIONS AS REQUIRED BY SECTION 406.12 (DWELLING UNITS) OF THE 2017 NEC.

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

REVISIONS:		
#	Description	Date



NEIL BARTLEY - ENGINEER
MO# PE-2007023868

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

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ELECTRICAL SYMBOLS LEGEND

E001

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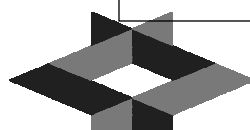
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LIGHTING PLAN NOTES:

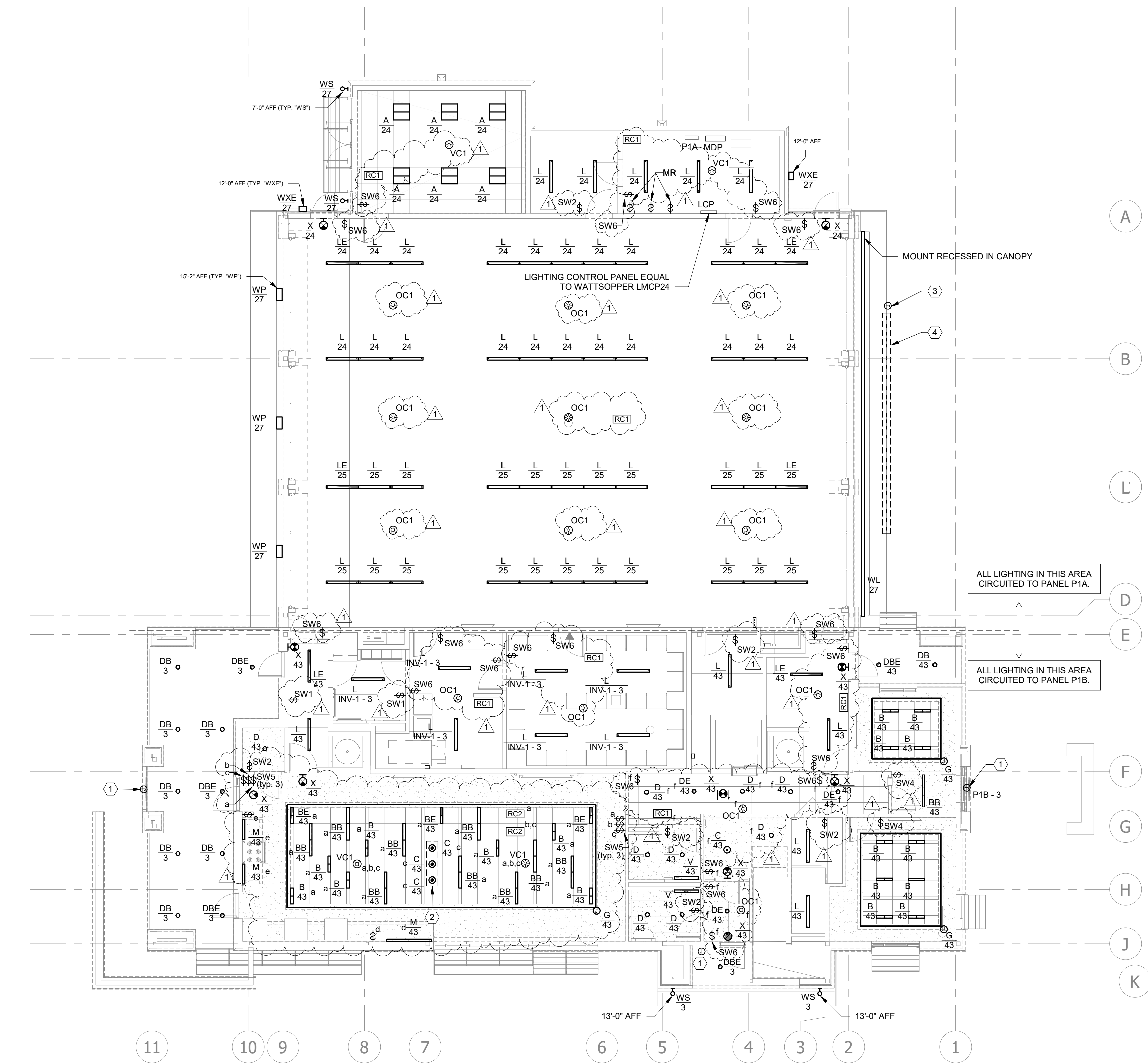
- 1 J-BOX INSTALLED TO PROVIDE POWER FOR BUILDING MOUNTED SIGNAGE WITH INTEGRAL LIGHTING.
- 2 BOTTOM OF "C" FIXTURES IN DINING SHALL BE HUNG 6'-4" AFF.
- 3 J-BOX INSTALLED TO PROVIDE POWER TO DRIVER AND LED STRIP LIGHTS FOR OUTDOOR SIGNAGE LIGHTING
- 4 LED STRIP SHALL BE INSTALLED BEHIND EACH LETTER 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.

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

MOUNT RECESSED IN CANOPY

ALL LIGHTING IN THIS AREA CIRCUITED TO PANEL P1A.

ALL LIGHTING IN THIS AREA CIRCUITED TO PANEL P1B.



A1 FIRST FLOOR LIGHTING RCP
1/8" = 1'-0"
0' 4' 8' 16'

#	Description	Date
1	AS 01	11/16/2022



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MO# PE-2007023868

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**FIRST FLOOR
LIGHTING RCP**

E101

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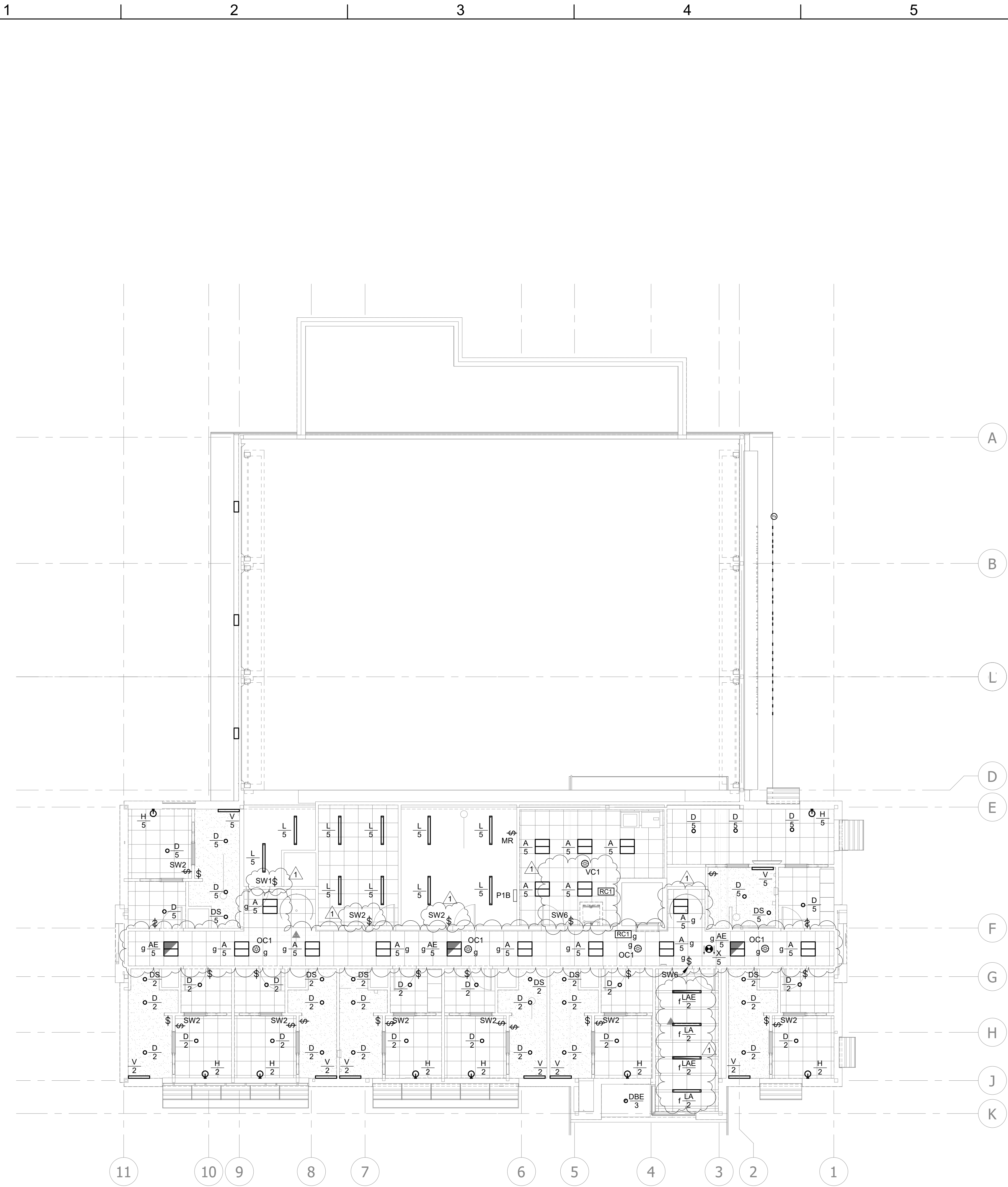
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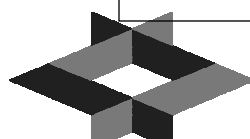
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SECOND FLOOR
LIGHTING RCP

E102



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



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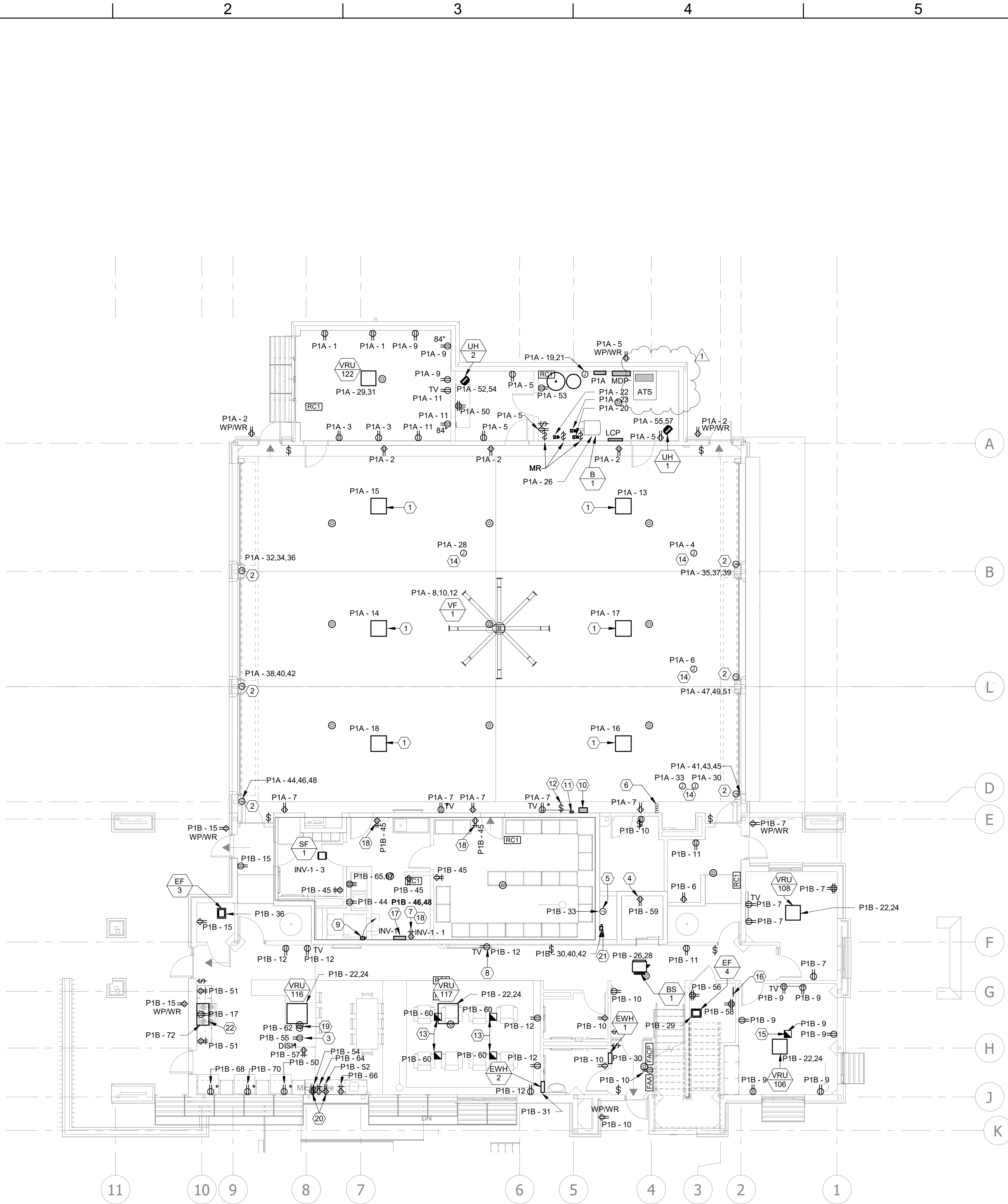
FIRST FLOOR
POWER PLAN

E201

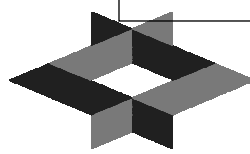
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ELECTRICAL PLAN NOTES:

- REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR AIR-VAC SYSTEM DETAILS.
- J-BOX INSTALLED FOR POWER TO AUTOMATIC GARAGE DOOR. COORDINATE EXACT LOCATION WITH GARAGE DOOR MOTOR INSTALLATION.
- RECEPTACLE INSTALLED UNDER COUNTER FOR DISHWASHER. ROUTE HOMERUN BELOW SLAB TO NEAREST WALL, THEN UP TO ABOVE CEILING.
- GFCI RECEPTACLE INSTALLED IN ELEVATOR PIT.
- J-BOX INSTALLED FOR ELEVATOR LIGHTING.
- GARAGE DOOR CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH IN.
- PROVIDE RED COLORED RECEPTACLE FOR EMERGENCY. POWERED FROM THE INVERTER.
- MOUNT TV RECEPTACLE IN WALL FURRING.
- 240V/2P/30A FUSIBLE DISCONNECT IN NEMA 1 ENCLOSURE. PROVIDE FUSES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- AIR-VAC SYSTEM CONTROLLER. REFER MECH.
- MULTI-GAS DETECTION SYSTEM. REFER MECH.
- VF-1 FAN CONTROLLER. REF. MECH.
- TYPE A: SINGLE GANG RECEPTACLE FLOOR BOX, REFER TO SPECS.
- 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.
- TYPE B: TWO GANG RECEPTACLE/DATA FLOOR BOX, REFER TO SPECS. ROUTE 1-1/2" CONDUIT FROM FLOOR BOX UP INTO WALL FOR AVIT NEEDS.
- PROVIDE EATON ELEVATOR POWER SWITCH MODEL ES1T2R2GF1_N.
- PROVIDE FIRE SUPPRESSION SYSTEM WITHIN THE RANGE HOOD TYPICAL OF GUARDIAN MODEL #G300B. FURNISH WITH 3-PRONG APPLIANCE SHUTOFF, CONNECTION TO GAS SOLENOID VALVE AND WIRELESS RECEIVER FOR RANGE SHUT DOWN TO BE INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE WITH REMOTE MANUAL PULL STATION AND REMOTE ALARM/STROBE ASSEMBLY. PROVIDE WITH PULL STATION FOR REMOTE ACTIVATION TO BE INSTALLED BY ELECTRICAL CONTRACTOR.



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



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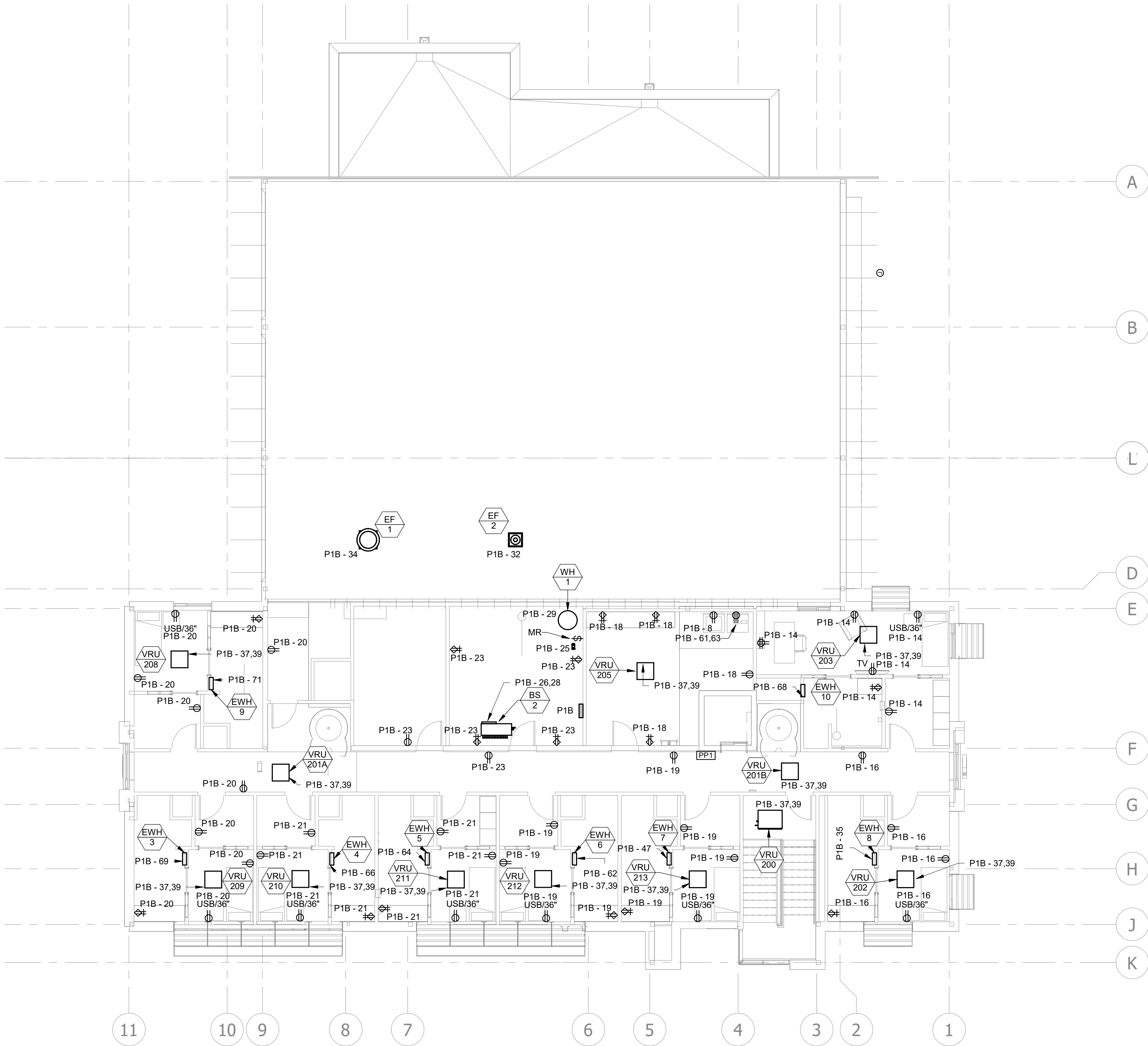
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SECOND FLOOR
POWER PLAN

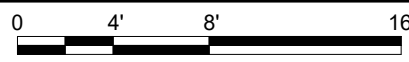
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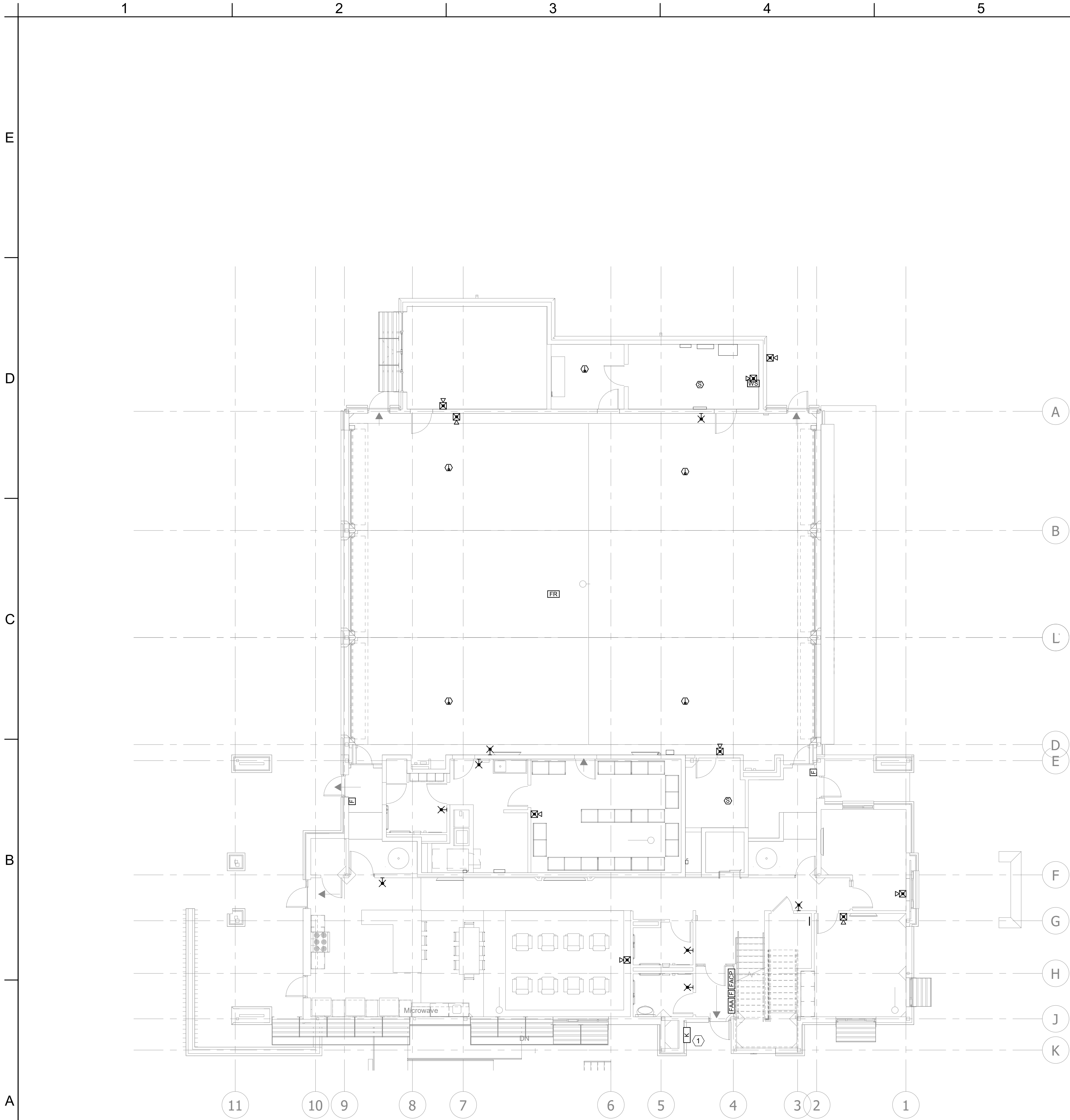
ELECTRICAL PLAN NOTES:



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



FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5/LSMO_FIRE STATION_5_MEP_V19.rvt



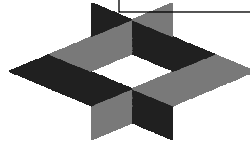
A1 FIRST FLOOR FIRE ALARM PLAN

1/8" = 1'-0"



ELECTRICAL PLAN NOTES:

- 1 PROVIDE KNOX BOX.



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FIRST FLOOR
FIRE ALARM
PLAN

E401

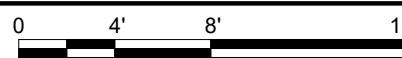
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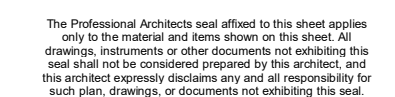


① FIRE ALARM SEQUENCE OF OPERATIONS
1/8" = 1'-0"

	SYSTEM OUTPUTS		
	SIGNAL	NOTIFICATION	HVAC
ALARM			
SUPERVISORY			
TROUBLE			
REPORT TO FIRE ALARM CONTROL PANEL			
SIGNAL SUPERVISING STATION			
ACTIVATE GENERAL FIRE ALARM			
AUDIBLE/VISIBLE NOTIFICATION DEVICES AT FDC			
SHUTDOWN ASSOCIATED FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT AND DAMPERS			
SHUT DOWN ALL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT FOR AFFECTED HVAC SYSTEM			
CLOSE ASSOCIATED SMOKE DAMPER			

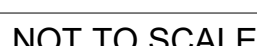
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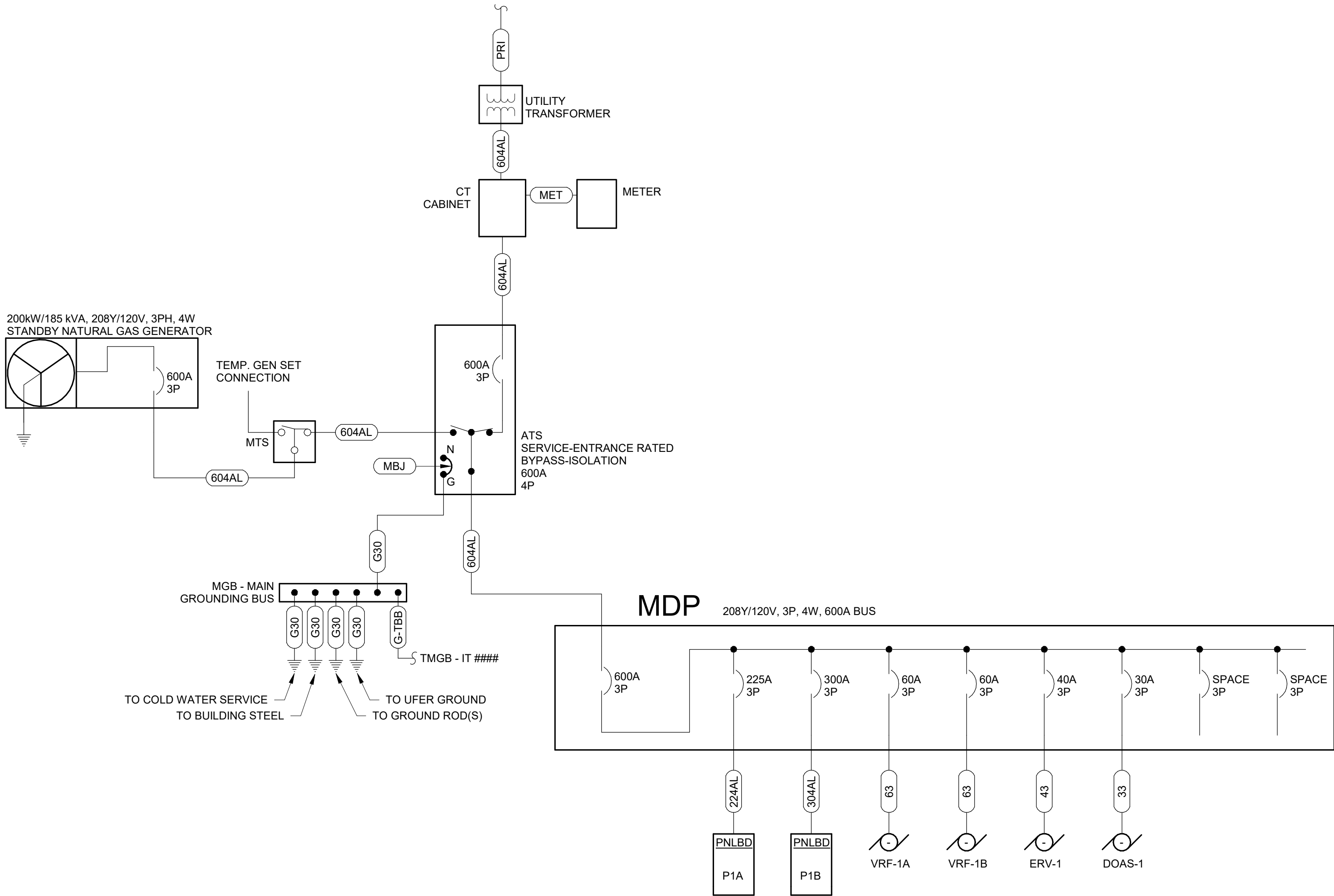
E

D

C

B

A



A3 ELECTRICAL ONE-LINE DIAGRAM
NOT TO SCALE

FEEDER SCHEDULE

FEEDER TAG	FEEDER SIZE
23	20 A, (3)#12, (1)#12 G, 0.75" C
33	30 A, (3)#10, (1)#10 G, 0.75" C
43	40 A, (3)#8, (1)#10 G, 0.75" C
44	40 A, (4)#8, (1)#10 G, 0.75" C
53	50 A, (3)#8, (1)#10 G, 0.75" C
54	50 A, (4)#8, (1)#10 G, 0.75" C
54T	50 A, (4)#8, (1)#8 SSB, 0.75" C
63	60 A, (3)#6, (1)#10 G, 1" C
64	60 A, (4)#6, (1)#10 G, 1" C
73	70 A, (3)#4, (1)#8 G, 1" C
74	70 A, (4)#4, (1)#8 G, 1.25" C
83	80 A, (3)#4, (1)#8 G, 1" C
84	80 A, (4)#4, (1)#8 G, 1.25" C
93	90 A, (3)#3, (1)#8 G, 1.25" C
94	90 A, (4)#3, (1)#8 G, 1.25" C
103	100 A, (3)#3, (1)#8 G, 1.25" C
104	100 A, (4)#3, (1)#8 G, 1.25" C
104T	100 A, (4)#3, (1)#8 SSB, 1.25" C
123	125 A, (3)#1, (1)#6 G, 1.5" C
124	125 A, (4)#1, (1)#6 G, 1.5" C
153	150 A, (3)#1/0, (1)#6 G, 1.5" C
154	150 A, (4)#1/0, (1)#6 G, 1.5" C
154T	150 A, (4)#1/0, (1)#6 SSB, 1.5" C
173	175 A, (3)#2/0, (1)#6 G, 1.5" C
174	175 A, (4)#2/0, (1)#6 G, 1.5" C
203	200 A, (3)#3/0, (1)#6 G, 2" C
204	200 A, (4)#3/0, (1)#6 G, 2" C
223	225 A, (3)#4/0, (1)#4 G, 2.5" C
224	225 A, (4)#4/0, (1)#4 G, 2.5" C
224AL	225 A, (4)300kcmil, (1)#2 G, 3" C (ALUMINUM)
224T	225 A, (4)#4/0, (1)#2 SSB, 2.5" C
253	250 A, (3)250kcmil, (1)#4 G, 2.5" C
254	250 A, (4)250kcmil, (1)#4 G, 2.5" C
303	300 A, (3)350kcmil, (1)#4 G, 3" C
304	300 A, (4)350kcmil, (1)#4 G, 3" C
304AL	300A, (2) sets of (4)#3/0, #2 G, 2" C (ALUMINUM)
353	350 A, (3)500kcmil, (1)#3 G, 3" C
354	350 A, (4)500kcmil, (1)#3 G, 3" C
403	400 A, (2) sets of (3)#3/0, (1)#3 G, 2" C
404	400 A, (2) sets of (4)#3/0, (1)#3 G, 2" C
404T	400 A(2) sets of (4)#3/0, (1)#1/0 SSB, 2.5" C
503	500 A, (2) sets of (3)250kcmil, (1)#2 G, 2.5" C
504	500 A, (2) sets of (4)250kcmil, (1)#2 G, 2.5" C
604	600 A, (2) sets of (4)350kcmil, (1)#1 G, 3" C
604AL	600 A, (2) sets of (4)500kcmil, (1)#2/0 G, 3" C (ALUMINUM)
604T	600 A, (2) sets of (4)350kcmil, (1)#2/0 SSB, 3" C
704	700 A, (2) sets of (4)500kcmil, (1)#1/0 G, 3" C
803	800 A, (3) sets of (3)300kcmil, (1)#1/0 G, 3" C
804	800 A, (4) sets of (3)300kcmil, (1)#1/0 G, 3" C
804S	800 A, (4) sets of (3)300kcmil, 3" C
1004	1000 A, (3) sets of (4)400kcmil, (1)#2/0 G, 3" C
1204	1200 A, (4) sets of (4)350kcmil, (1)#3/0 G, 3" C
1604	1600 A, (5) sets of (4)400kcmil, (1)#4/0 G, 3" C
2504	2500 A, (8) sets of (4)400kcmil, (1)#350 G, 3" C
G2	#2 COPPER GROUND, 0.75" C
G4	#4 COPPER GROUND, 0.75" C
G6	#6 COPPER GROUND, 0.75" C
G8	#8 COPPER GROUND, 0.75" C
G10	#1/0 COPPER GROUND, 1" C
G20	#2/0 COPPER GROUND, 1" C
G30	#3/0 COPPER GROUND, 1" C
G-TBB	250kcmil G, 1.5" PVC
MBJ	MAIN BONDING JUMPER, #3/0 COPPER GROUND
MET	1.25" C WITH PULL WIRE. GROUND METER PER UTILITY STANDARDS.
PRI	4" C WITH PULL TAPE. PRIMARY UTILITY SERVICE FEEDER. COORDINATE ALL REQUIREMENTS WITH UTILITY.



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DATE: 10.20.2022
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CHK'D BY: NB

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ELECTRICAL ONE-LINE DIAGRAM

E502

FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5LSMO_FIRE STATION_5_WEP_V19.rvt

E

D

C

B

A

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

LIGHT FIXTURE SCHEDULE

FIXTURE TAG	MANUFACTURER	MODEL	EQUIVALENT MANUFACTURER	LIGHT SOURCE				DIMMING TYPE	MOUNTING TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
				TYPE	LUMENS	COLOR TEMP	CRI							
A	HE WILLIAMS	AT1-22-L40/830-D-DIM-UNV		LED	3000	3000 K	80	0-10V	RECESSED	120	37	41	2X2 RECESSED TROFFER	1
AE	HE WILLIAMS	AT1-22-L40/830-D-EM/10W-DIM-UNV		LED	3000	3000 K	80	0-10V	RECESSED	120	37	41	2X2 RECESSED TROFFER WITH INTERGRAL EMERGENCY BATTERY	1,3
B	HE WILLIAMS	LRX4F-2-L8/830-DMA-DIM-UNV		LED	1600	3000 K	80	0-10V	RECESSED	120	13	15	2' RECESSED STRIP FIXTURE	1
BB	HE WILLIAMS	LRX4F-4-L8/830-DMA-DIM-UNV		LED	3200	3000 K	80	0-10V	RECESSED	120	27	30	4' RECESSED STRIP FIXTURE	1
BE	HE WILLIAMS	LRX4F-2-L8/830-EM/10W-DMA-DIM-UNV		LED	1600	3000 K	80	0-10V	RECESSED	120	13	15	2' RECESSED STRIP FIXTURE WITH INTERGRAL EMERGENCY BATTERY	1
C	HE WILLIAMS	6CR-TL-L10/830-DIM-UNV-OM		LED	1000	3000 K	80	0-10V	PENDANT	120	9	10	DECORATIVE PENDANT TBD	1,6,7
D	HE WILLIAMS	4DR-TL-L10/830-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT	1
DB	HE WILLIAMS	6DR-TL-L10/830-ATH-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	6" RECESSED DOWNLIGHT WEATHER RATED	1,2
DBE	HE WILLIAMS	6DR-TL-L10/830-EM/10W-ATH-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	6" RECESSED DOWNLIGHT WEATHER RATED WITH INTERGRAL COLD WEATHER EMERGENCY BATTERY	1,2,4
DE	HE WILLIAMS	4DR-TL-L10/830-EM/10W-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT WITH INTERGRAL EMERGENCY BATTERY	1
DS	HE WILLIAMS	4DR-TL-L10/830-DIM-UNV-SW-OF-WH-A D		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT SHOWER RATED	
F	BEGA	84 457 - NON-SKID LENS		LED	3211	3000 K	80	--	IN-GRADE	120	34	38	CAST-IN PLACE IN-GRADE FLAGPOLE FIXTURE	2,4,7
G	ACCLAIM LIGHTING	FLEXOSI35		LED	232	3000 K	95	0-10V	CHANNEL	120	3	3	LED TAPELIGHT WITH 45 DEG CHANNEL. LUMENS PER LINEAR FOOT. WATTAGE PER LINEAR FOOT	1,8,9
H	ARTEMIDE	SKOPOS		LED	72	3000 K	80	--	WALL MOUNT	120	1	1	WALL MOUNT FLEXABLE DESK LIGHT	
L	HE WILLIAMS	75L-4-L38/830-DMA-ACF-DIM-UNV		LED	3800	3000 K	80	0-10V	SUSPENDE D	120	31	35	4' LENSED SUSPENDED STRIP FIXTURE	
LA	FOCAL POINT	FSM4LS-BW-625F-30K-1C-UNV-LD1-C2 4		LED	2500	3000 K	80	0-10V	SUSPENDE D	120	22	24	4' SUSPENDED LINEAR	
LAE	FOCAL POINT	FSM4LS-BW-625F-30K-1C-UNV-LD1-C2 4-1EM		LED	2500	3000 K	80	0-10V	SUSPENDE D	120	22	24	4' SUSPENDED LINEAR WITH INTERGRAL EMERGENCY BATTERY	3
LE	HE WILLIAMS	75L-4-L38/830-EM/10W-DMA-ACF-DIM-UNV		LED	3800	3000 K	80	0-10V	SUSPENDE D	120	31	35	4' LENSED SUSPENDED STRIP FIXTURE WITH INTERGRAL EMERGENCY BATTERY	
M	TASK LIGHTING	SA9Q-F30		LED	200	3000 K	80	0-10V		120	2	2	UNDERCABINET LINEAR FIXTURE. LUMENS PER FOOT, WATTS PER FOOT.	
S1	LITHONIA	DSX1 LED P4 30K T4M MVOLT		LED	13165	3000 K	80	--	POLE	120	125		POLE MOUNTED SITE LIGHTING FIXTURE	
V	HUBBELL	3L-W-ID-LPA-3-03-SOF-30K-I030-D030-UNV		LED	900	3000 K	80	0-10V	WALL MOUNT	120	6	7	VANITY LIGHT TBD	1
WL	MICROLINEA	ML3WLASY-D-CO(628LPF)K40-80-12-R-FLA-F01M-EF-UNV-DIM10		LED	2578	3000 K	80	--	RECESSED	120	356	395	EXTERIOR LINEAR WALL-WASH FIXTURE. 4 FT SECTIONS, 7.5 W/FT. LUMENS OUTPUT PER 4 FT	2
WP	ACUITY	WDGE3 LED P2 30K 80CRI MVOLT SRM		LED	8500	3000 K	80	--	WALL MOUNT	120	15	17	EXTERIOR WALL PACK	2
WS	BEGA	24 582		LED	1581	3000 K	85	--	WALL MOUNT	120	17	18	EXTERIOR WALL SQUARE DOWN LIGHT	2
WXE	ACUITY	WDGE2 P130K 80CRI VF MVOLT SRM		LED	1200	3000 K	80	--	WALL MOUNT	120	10	11	EXTERIOR WALL PACK WITH COLD-WEATHER EM BATTERY	2,4
X	H.E. WILLIAMS	EXIT-R-EM-WHT-SDT		LED					UNIVERSAL	120				3,5

NOTES:

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

GENERAL NOTES:

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

LIGHTING DEVICE SCHEDULE

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

GENERAL CONTROL NOTES:

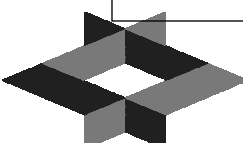
- A. AUTO ON (OCCUPANCY MODE): LOAD TURNS ON AND OFF AUTOMATICALLY BASED ON OCCUPANCY. IF LOAD IS TURNED OFF MANUALLY, LOAD REMAINS OFF UNTIL 5 MINUTES AFTER OCCUPANT DETECTION. IT THEN REVERTS TO AUTO ON MODE.
- B. MANUAL ON (VACANCY MODE): OCCUPANT MUST MANUALLY PRESS ON/OFF BUTTON TO ENERGIZE THE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

GENERAL NOTES:

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

NOTES:

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



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DATE: 10.20.2022

DRAWN BY: JL

CHK'D BY: NB

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ELECTRICAL SCHEDULES

E600

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

Notes:

FILE PATH: BIM 360://182252521001_Lee'sSummitFireStation_#4 and #5(2100001291 LSNO FIRE STAION_#5 v19.rvt

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.

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

CONDUIT ROUTING AND SEPARATION

BOTH EMT

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

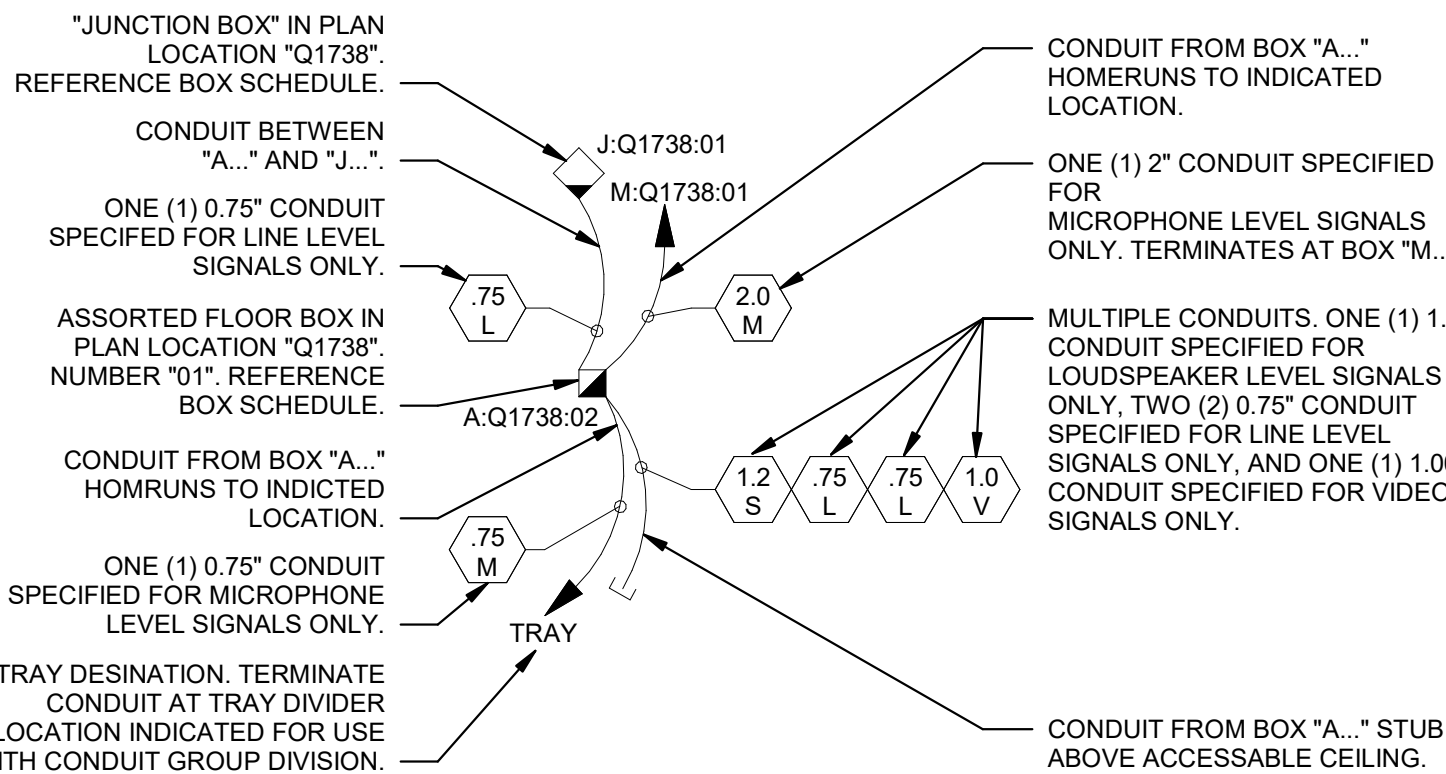
POWER IN RIGID

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

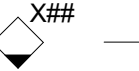
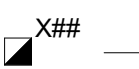
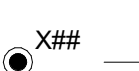

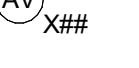
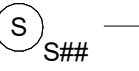


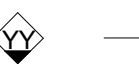
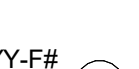
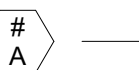
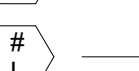
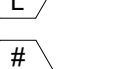
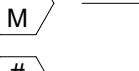
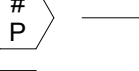
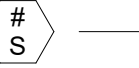
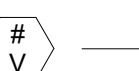
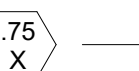
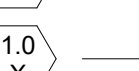
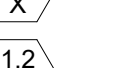
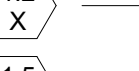
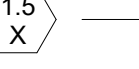
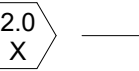
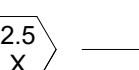







BOTH IN RIGID

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

PLAN BOX & CONDUIT EXAMPLE

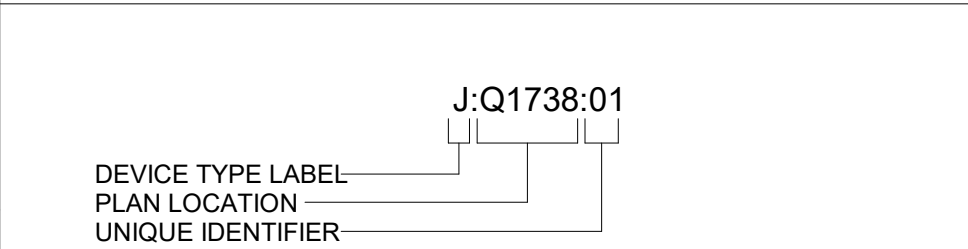


NOTE: FOR TYPICAL BOXES, REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INSTRUCTIONS. FOLLOW CONDUIT REQUIREMENTS AS LISTED IN SCHEDULE AND ANY ADDITIONAL NOTES AS INDICATED ON PLANS.

PLAN LEGEND	
BOX AND PLAN SYMBOLS	
	WALL BOX. "X" INDICATES FUNCTION OF BOX (REFER TO BOX LABEL LEGEND). "##" INDICATES BOX DESIGNATION.
	FLOOR BOX. SIMILAR TO ABOVE.
	POKE THRU. SIMILAR TO ABOVE.
	CEILING MOUNTED BOX. SIMILAR TO ABOVE.
	FLUSH MOUNTED CEILING LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER IDENTIFICATION INFORMATION.
	PENDANT MOUNTED LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER IDENTIFICATION INFORMATION.
	CEILING MOUNTED MICROPHONE. SIMILAR TO ABOVE. NO BACK BOX.
	CEILING MOUNTED CAMERA. SIMILAR TO ABOVE. NO BACK BOX.
TYPICAL BOX SYMBOLS	
	WALL BOX. "YY" INDICATES TYPE. REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INFORMATION AND AS INDICATED ON PLANS AND KEY NOTES.
	FLOOR BOX. CEILING BOX. SIMILAR TO ABOVE. "YY" INDICATES SYMBOL TYPE. "F#" INDICATES UNIQUE IDENTIFIER.
NOTE: BLANK CELLS ON TYPICAL BOX SCHEDULE INDICATE INFORMATION PROVIDED ELSEWHERE.	
CONDUIT LEGEND	
	INDICATES ASSORTED SIGNALS ONLY. "F" SPECIFIES SIZE OF CONDUIT.
	INDICATES LINE LEVEL SIGNALS ONLY. "F" SPECIFIES SIZE OF CONDUIT.
	INDICATES MICROPHONE LEVEL SIGNALS ONLY. "F" SPECIFIES SIZE OF CONDUIT.
	INDICATES PRODUCTION INTERCOM LEVEL SIGNALS ONLY. "F" SPECIFIES SIZE OF CONDUIT.
	INDICATES LOUDSPEAKER LEVEL SIGNALS ONLY. "F" SPECIFIES SIZE OF CONDUIT.
	INDICATES VIDEO SIGNALS ONLY. "F" SPECIFIES SIZE OF CONDUIT.
	INDICATES WIRELESS/RF SIGNALS ONLY. "F" 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.	

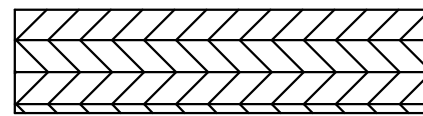
LABEL LEGEND	
A	ASSORTED
B	BROADCAST
C	CONTROL
D	DSS SATELLITE
E	EXISTING
F	FUTURE / BY OTHERS
G	GAME CLOCK
J	JUNCTION / PULL BOX
K	CAMERA
L	LINE-LEVEL AUDIO
M	MICROPHONE-LEVEL AUDIO
P	PRODUCTION INTERCOM
R	EQUIPMENT RACK
S	LOUDSPEAKER-LEVEL AUDIO
T	TELEVISION DISTRIBUTION
V	VIDEO
W	WIRELESS / RF
DS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

LABEL STANDARD



CALL OUTS

ENLARGED PLAN CALLOUT



NOT IN SCOPE



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FIRE STATION #5
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

#	Description	Date
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10/26/2022

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

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AUDIO-VIDEO GENERAL NOTES

TA000

FILE PATH: B:\360\182252\FireStation_#4 and #5\2150001291.LSMO FIRE STATION #5.v19.rvt

MARK D. MAURER

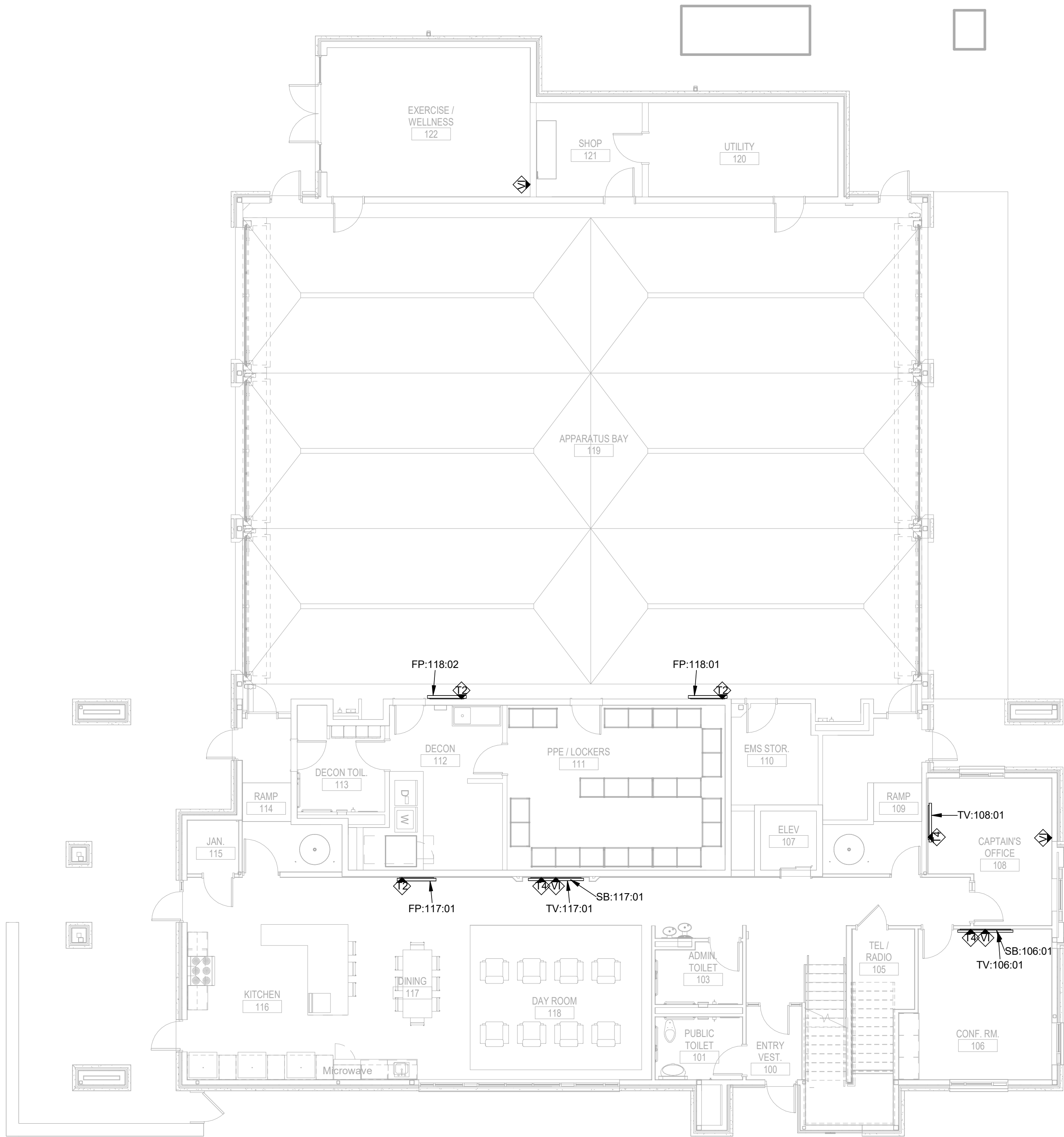
E

D

C

B

A



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

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**AUDIO-VIDEO
LEVEL 1 PLAN**

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CHK'D BY: M.MAURER

DRAWN BY: J.ROSE

DATE: 10.26.2022

PROJECT NO: 2150001291

10/26/2022



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



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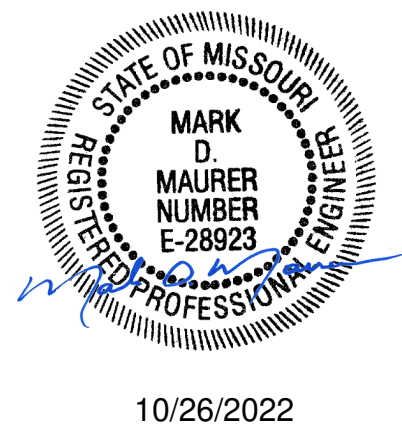
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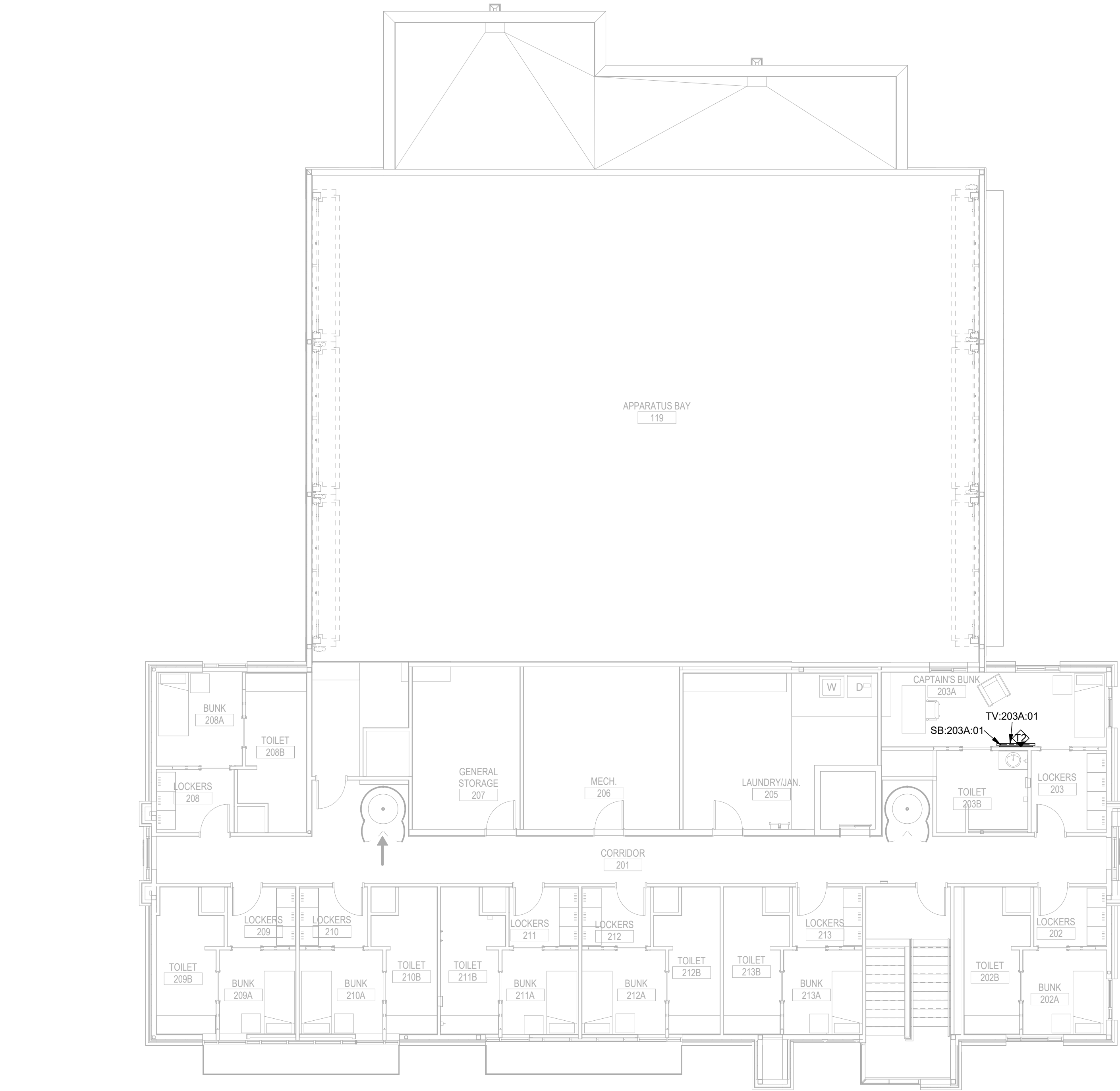


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CHK'D BY:	M.MAURER

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AUDIO-VIDEO
LEVEL 2 PLAN

TA102



A1

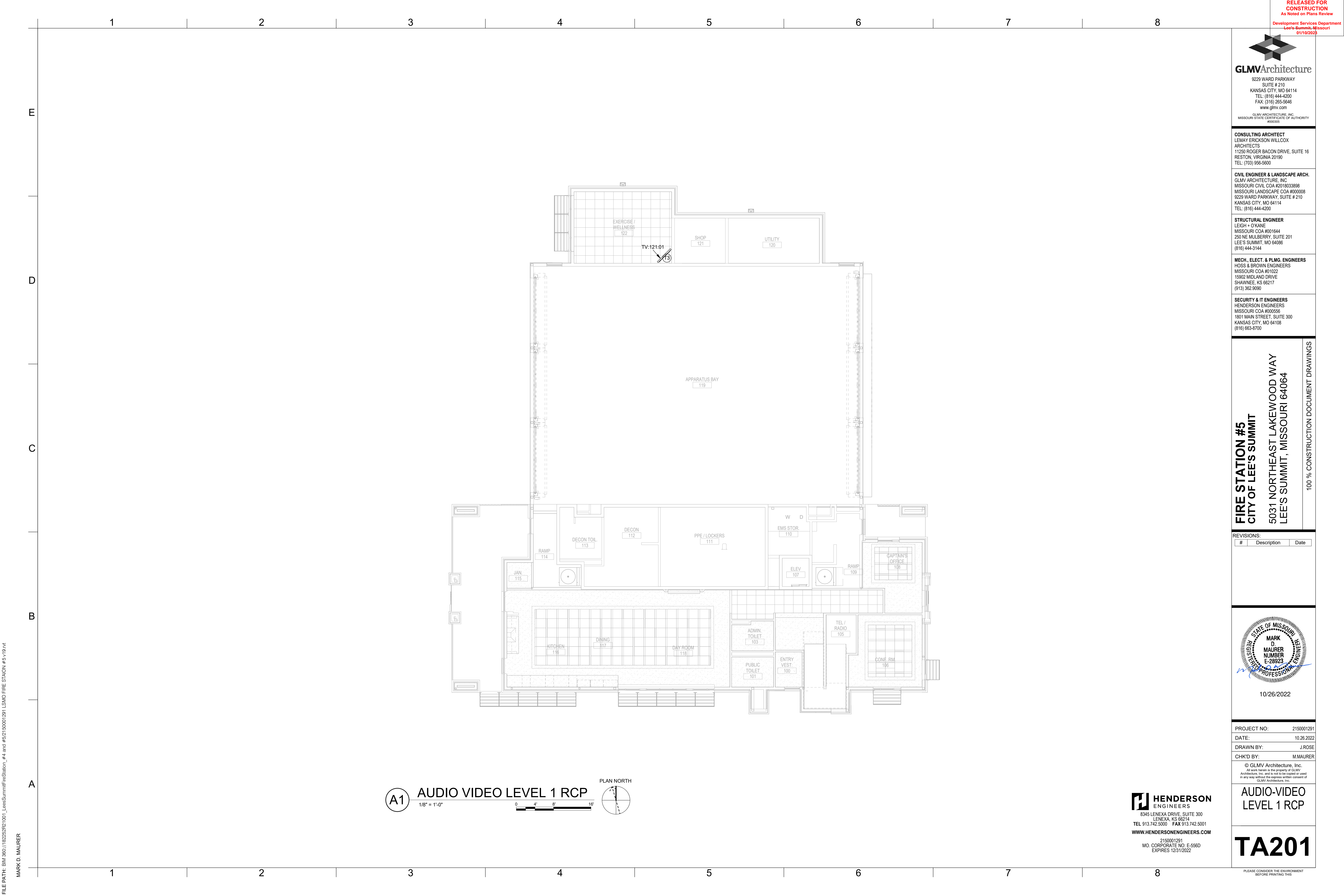
AUDIO VIDEO LEVEL 2 FLOOR PLAN
1/8" = 1'-0"





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AUDIO-VIDEO
LEVEL 1 RCP

TA201

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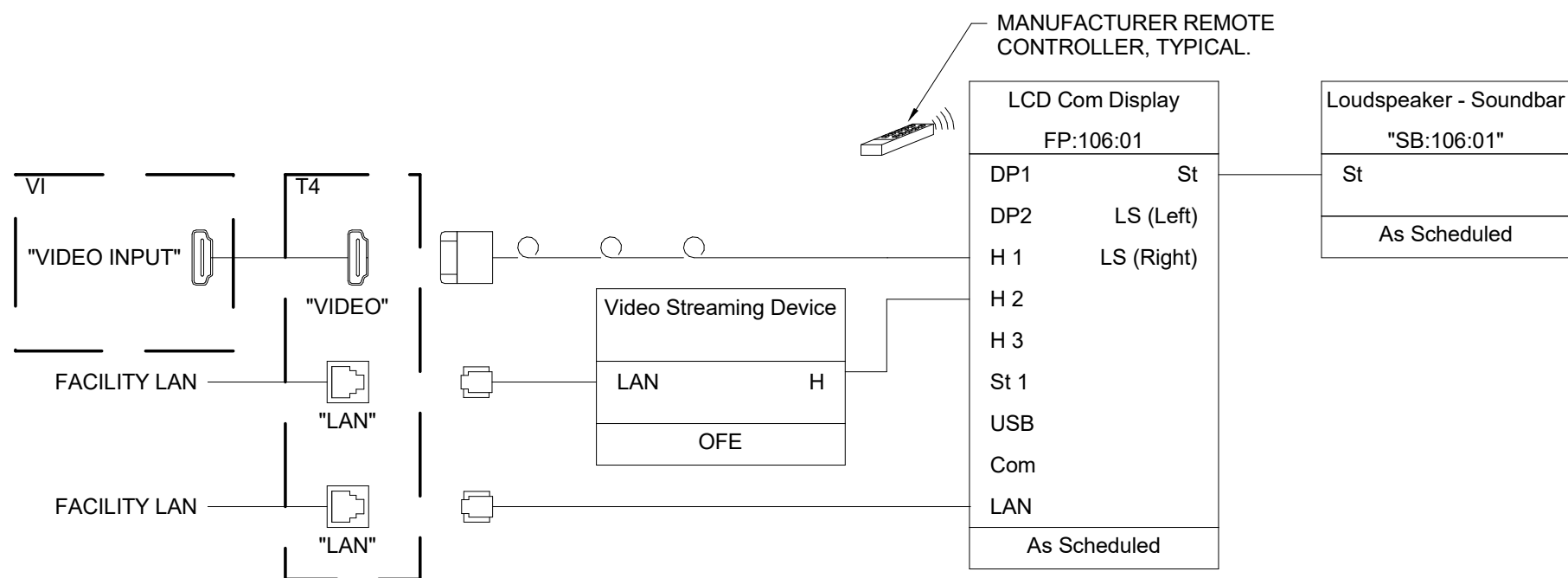
A1 AUDIO VIDEO LEVEL 1 RCP
1/8" = 1'-0"

0 4' 8' 16'

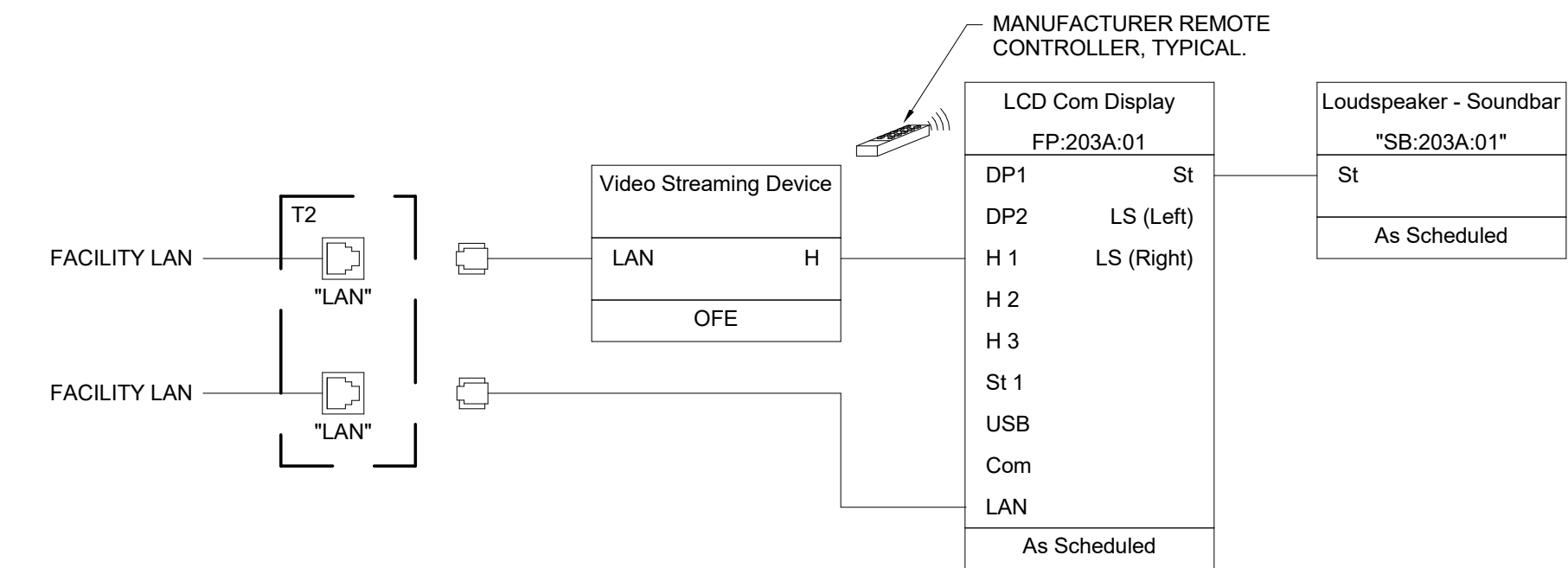
PLAN NORTH

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

SB:106:01	SB 8 4x2 - 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	



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



1.1 APPARATUS BAY 118 (FP:118:02)

1.2 DINNING 117 (FP:117:01)

SYSTEM/ROOM SHOWN PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS

2150001291
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2022

TA600

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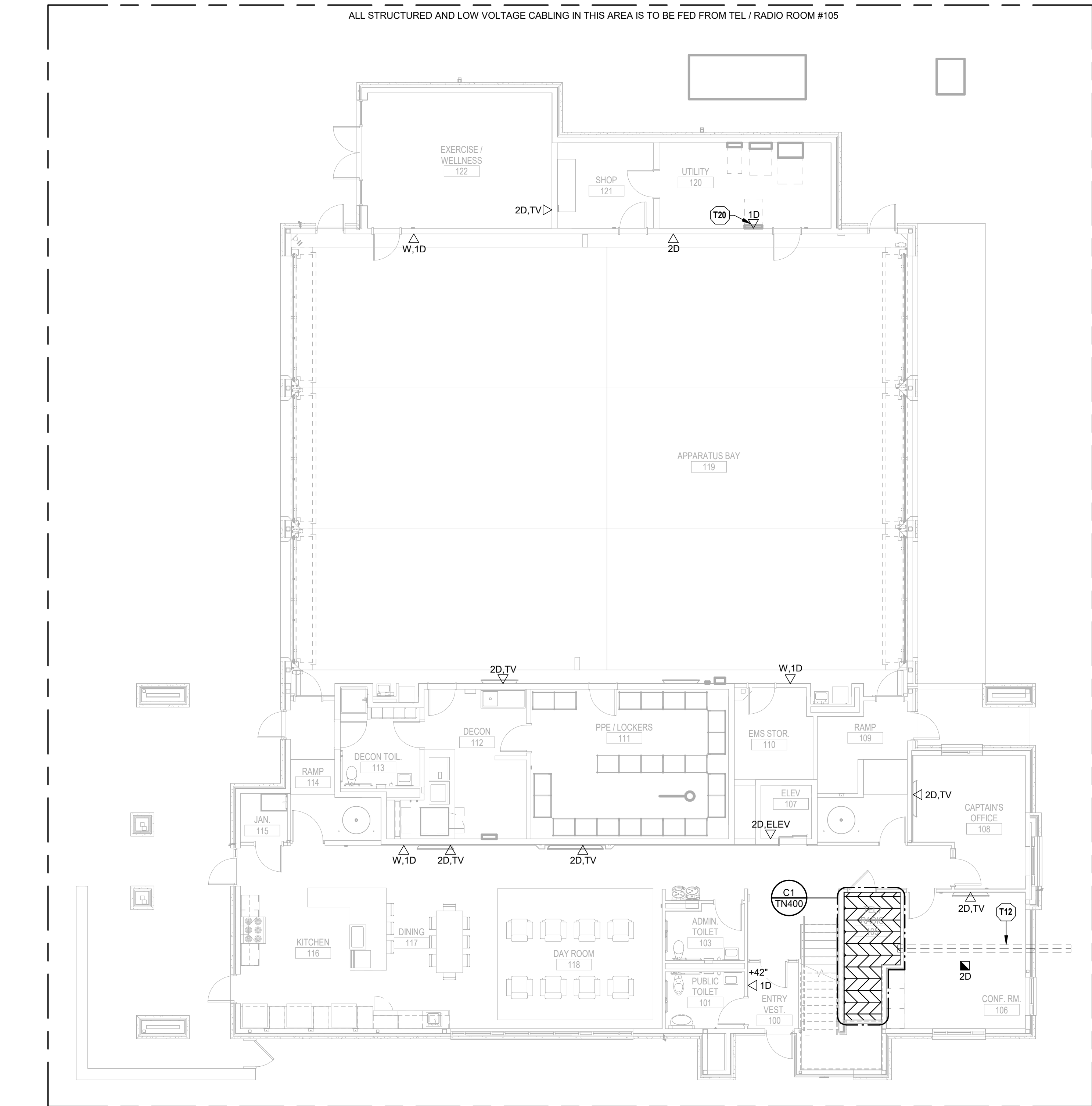
E

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

0 4' 8' 16'

PLAN NORTH

- TECHNOLOGY PLAN NOTES:**
- T12 PROVIDE (2) 4" SERVICE ENTRANCE CONDUITS FROM ENTRANCE FACILITY TO 5'-0" OUTSIDE OF BUILDING. PROVIDE PULL STRING. REFER TO CIVIL SITE PLANS AND DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T20 PROVIDE DATA OUTLET FOR LIGHTING CONTROL PANEL. REFER TO ELECTRICAL SHEETS FOR FURTHER INFORMATION. COORDINATE WITH ELECTRICAL CONTRACTOR ON EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.

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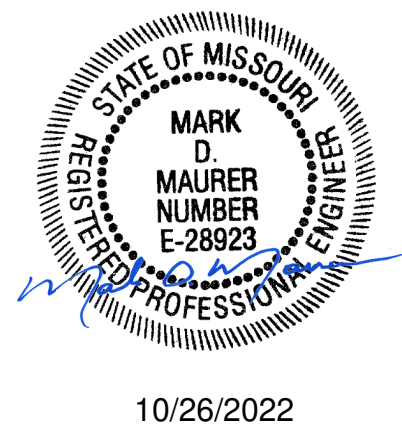
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**FIRE STATION #5
CITY OF LEE'S SUMMIT**
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

#	Description	Date
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PROJECT NO: 2150001291
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CHK'D BY: M.MAURER

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**TECHNOLOGY
LEVEL 1 PLAN**

TN101

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E

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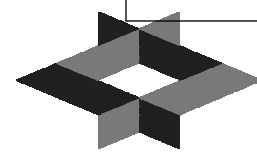
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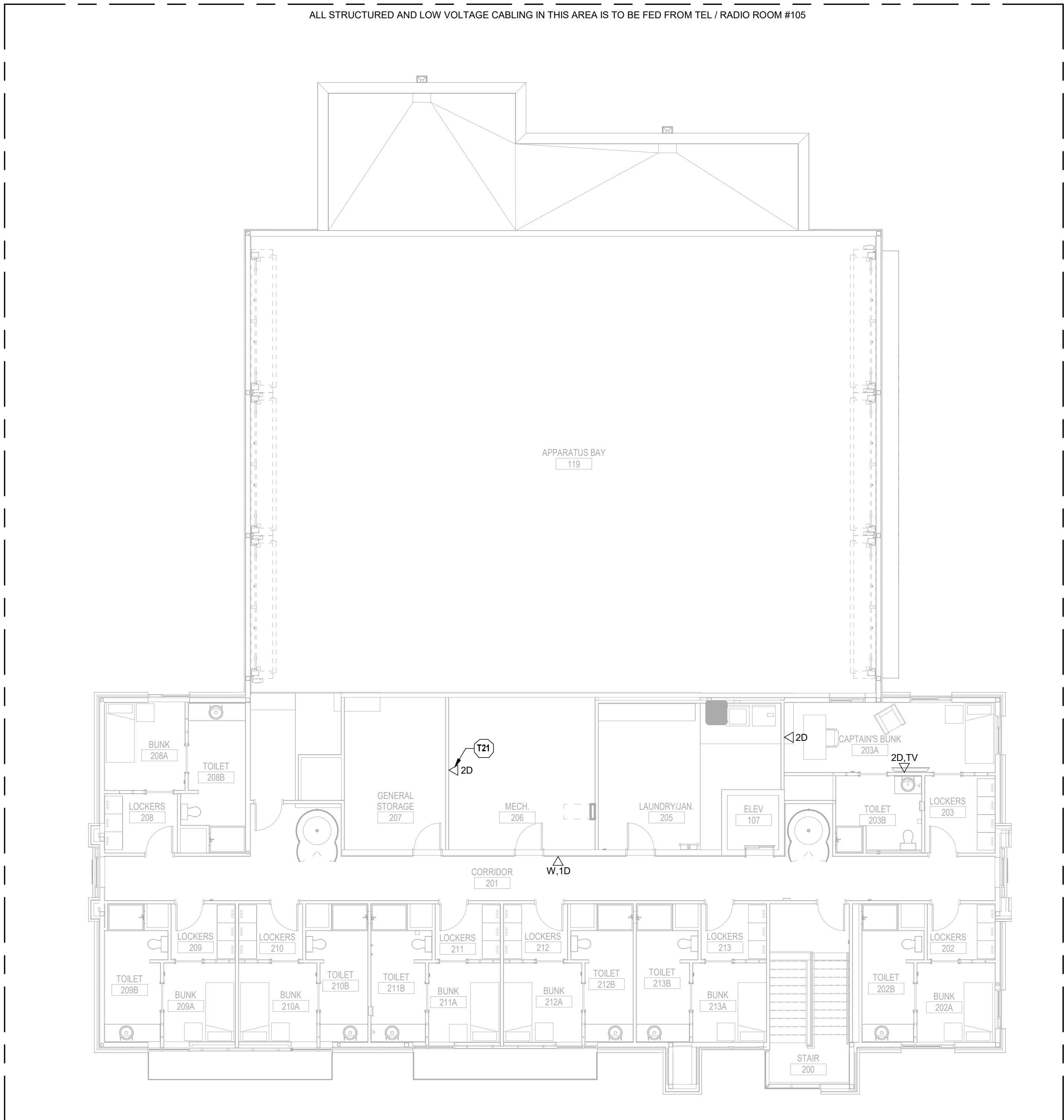
**TECHNOLOGY
LEVEL 2 PLAN**

TN102

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TECHNOLOGY PLAN NOTES:

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



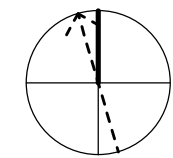
A1

TECHNOLOGY LEVEL 2 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'

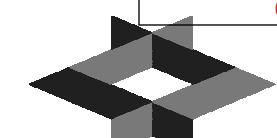
PLAN NORTH



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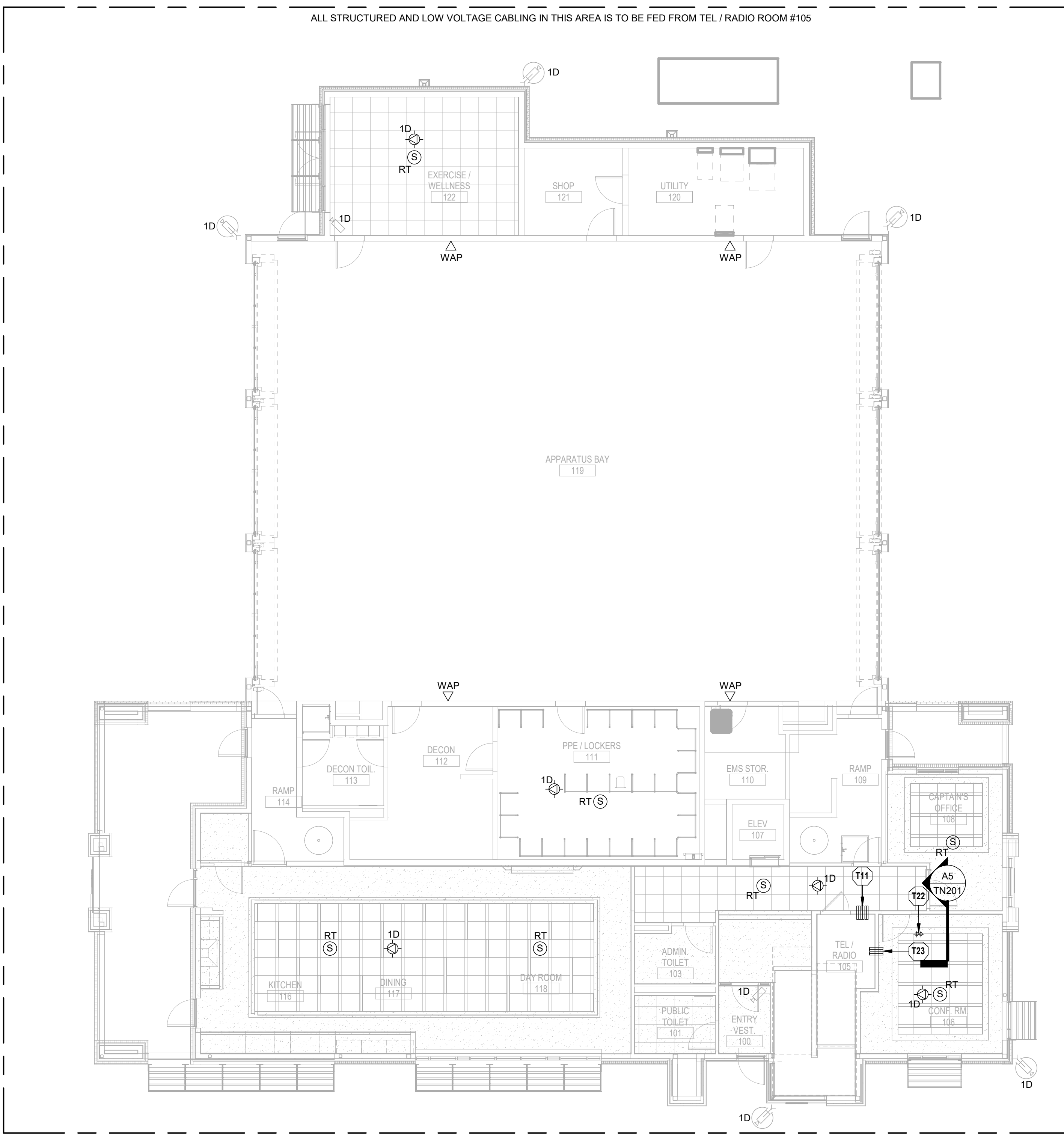
TECHNOLOGY
LEVEL 1 RCP

TN201

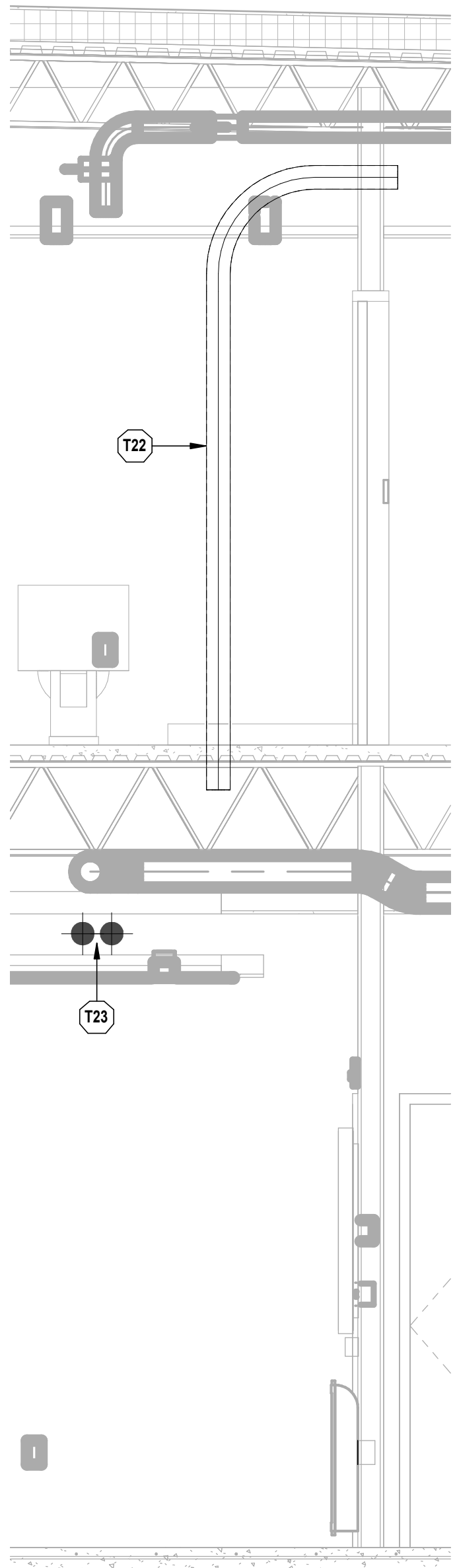
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TECHNOLOGY PLAN NOTES:

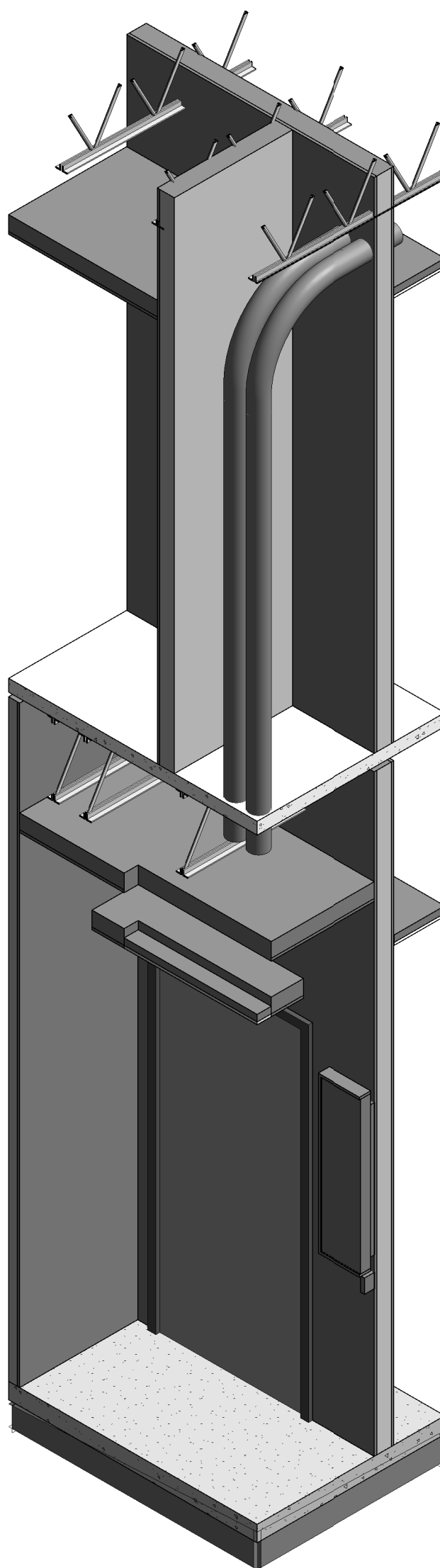
- T11 PROVIDE (3) 4" FIRE-RATED CONDUITS FOR HORIZONTAL CABLING.
- T22 PROVIDE (2) 4" FIRE-RATED CONDUITS FOR 2ND FLOOR HORIZONTAL CABLING ORIGINATING FROM TEL / RADIO ROOM #105.
- T23 PROVIDE (2) 4" FIRE-RATED CONDUIT SLEEVES FOR 2ND FLOOR HORIZONTAL CABLING.



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



A5 LEVEL 2 CONDUIT PATHWAY
1/2" = 1'-0"
0 4' 8' 16'



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

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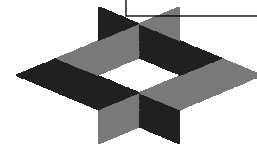
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FIRE STATION #5
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5031 NORTHEAST LAKEWOOD WAY
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DATE: 10.26.2022

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TECHNOLOGY
LEVEL 2 RCP

TN202

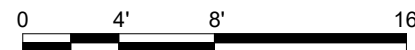
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TECHNOLOGY PLAN NOTES:

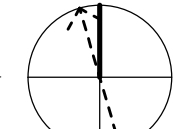
- T1 CONTRACTOR TO PROVIDE AN ADDITIONAL 30 DATA CABLES
AND COIL UP ABOVE CEILING FOR FUTURE TERMINATION BY
THE CITY. PROVIDE ENOUGH SLACK TO REACH THE
FURTHEST POINT WITHIN EACH ROOM SPECIFICALLY
FURTHEST POINT OF APPARATUS BAY. CABLES ARE TO BE
ROUTED UP THE CHASE NEXT TO THE STAIRWELL INTO
ACCESSIBLE CEILING.
- T22 PROVIDE (2) 4" FIRE-RATED CONDUITS FOR 2ND FLOOR
HORIZONTAL CABLING ORIGINATING FROM TEL / RADIO
ROOM #105.



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



PLAN NORTH



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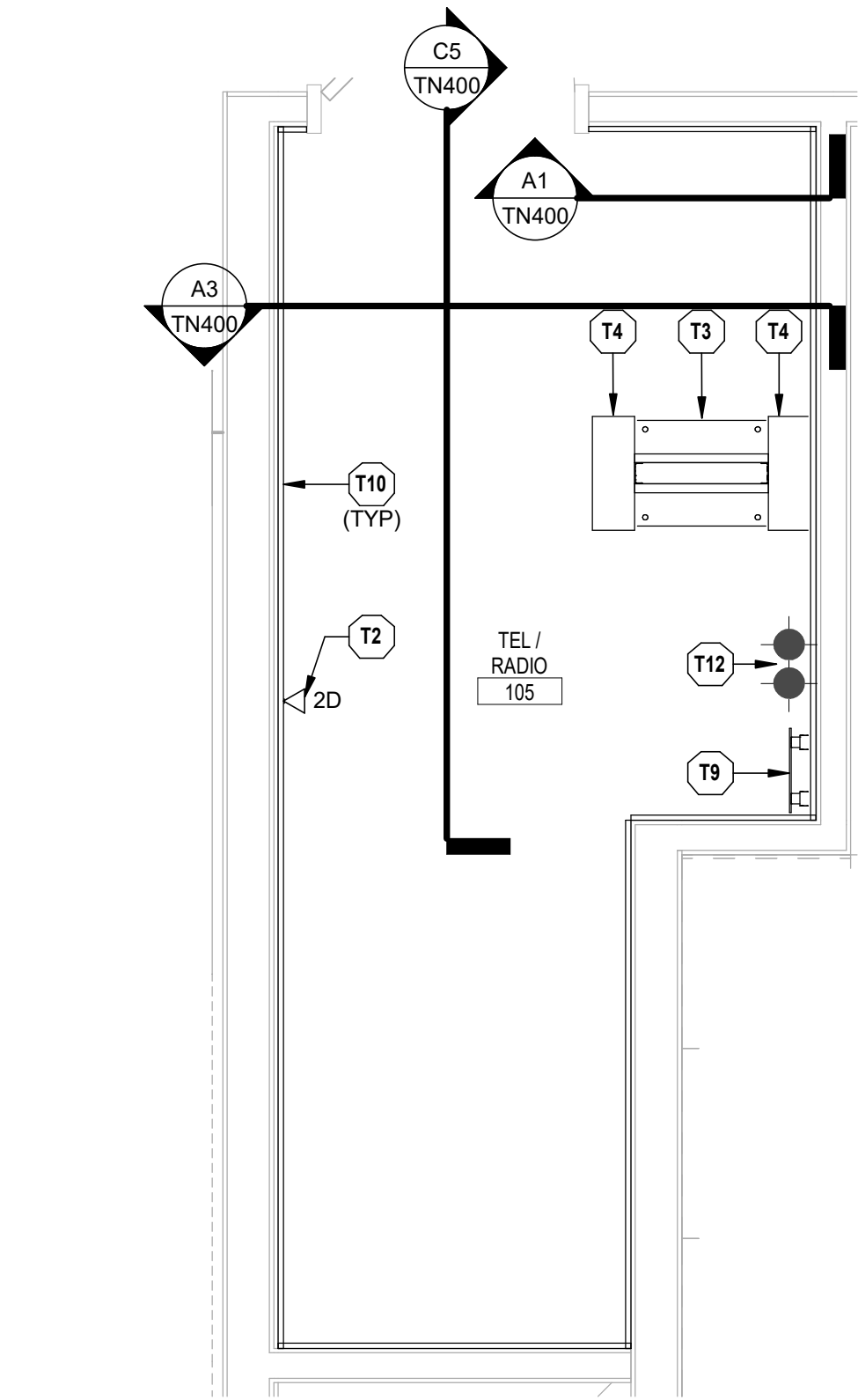
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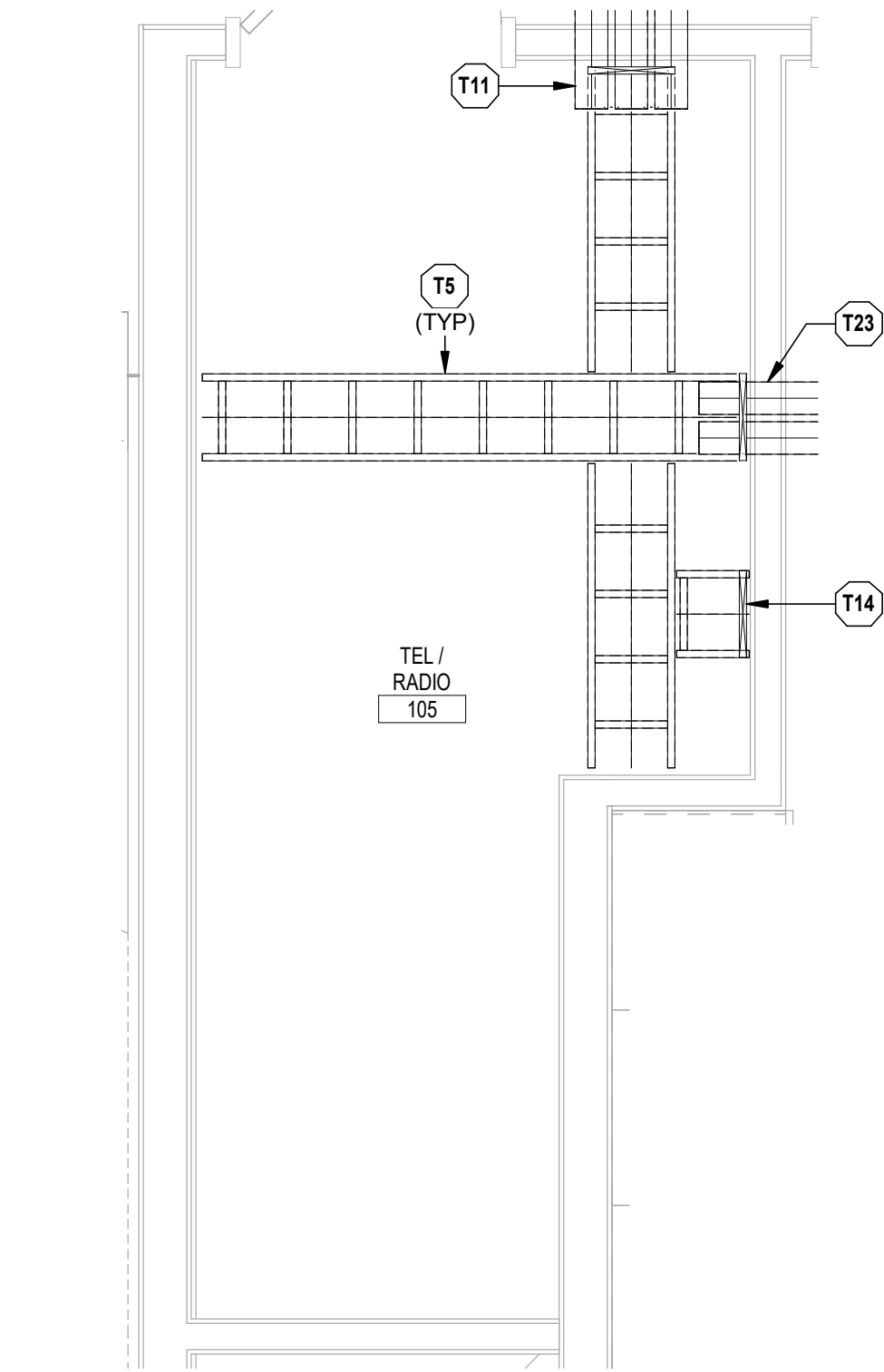
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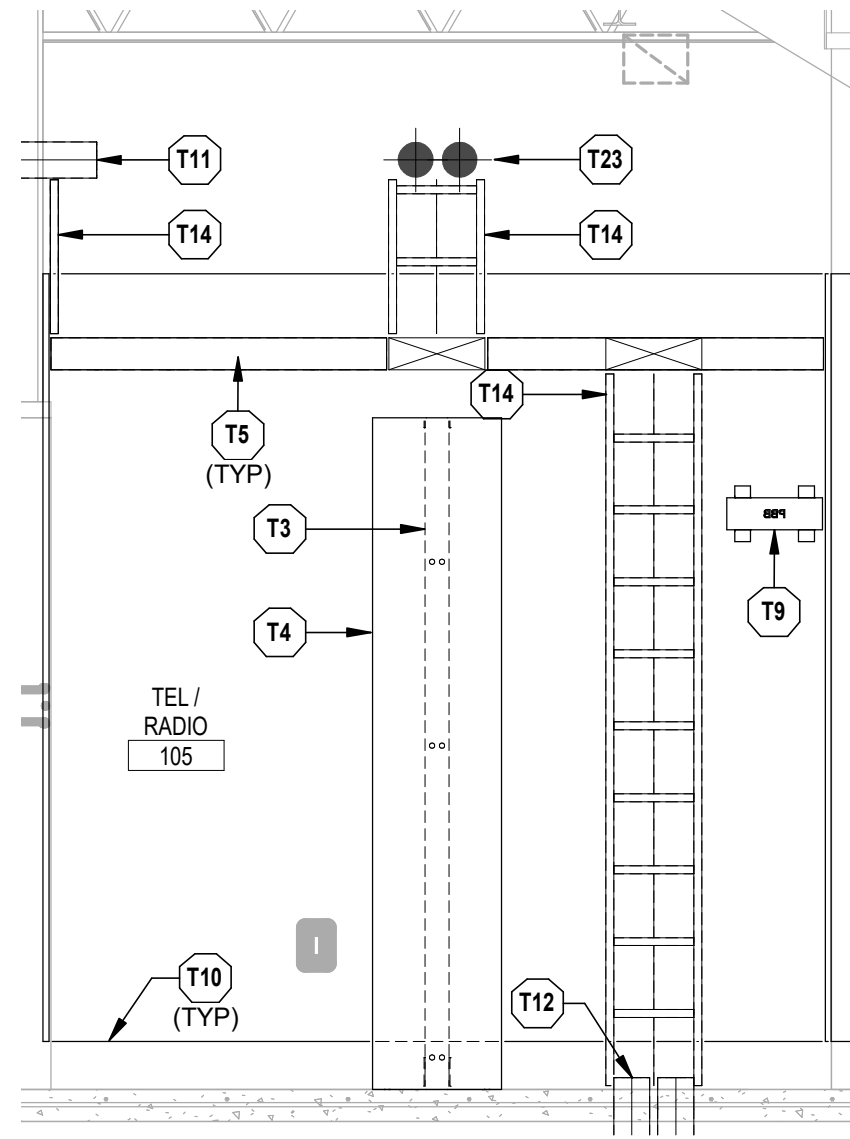
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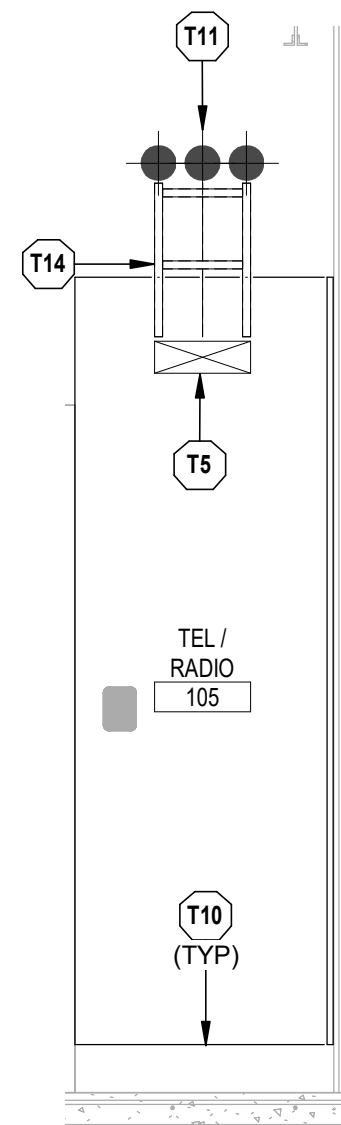
C1 TEL/RADIO #105 - ENLARGED PLAN
1/2" = 1'-0"



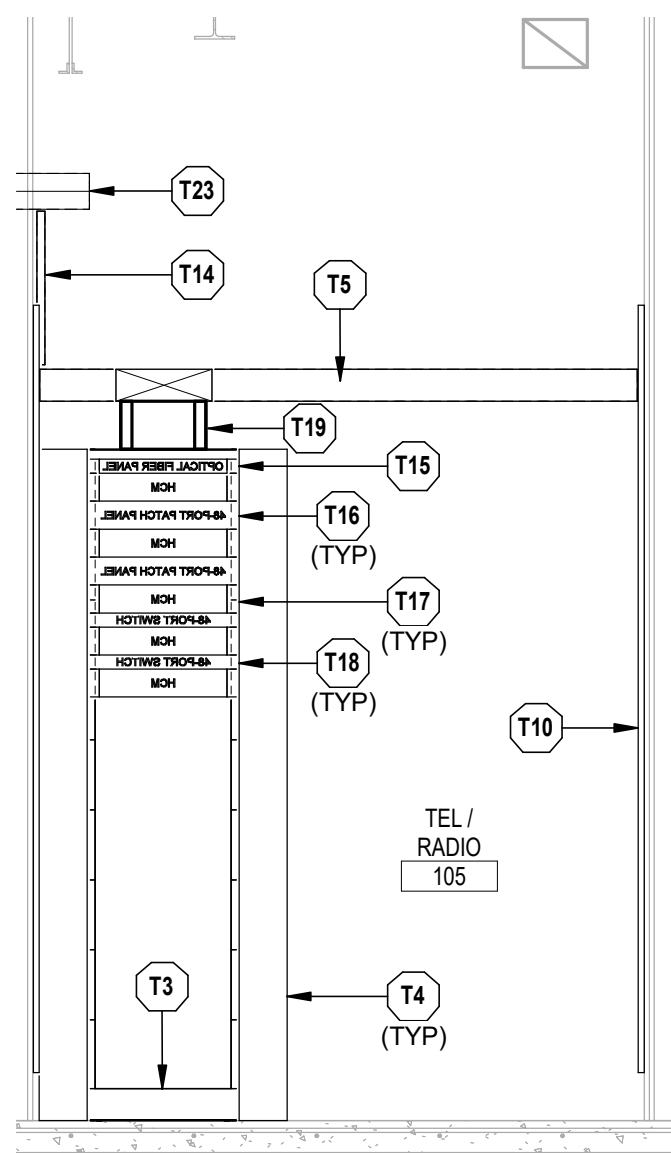
C3 TEL/RADIO #105 - PATHWAY PLAN
1/2" = 1'-0"



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



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



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

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



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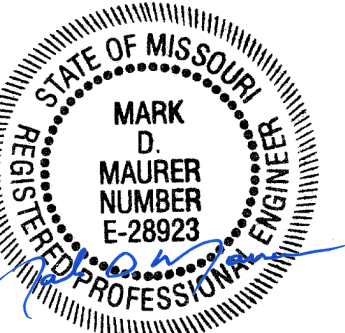
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CHK'D BY: M.MAURER

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ENLARGED
PLANS

TN400



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LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

#	Description	Date
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10/26/2022

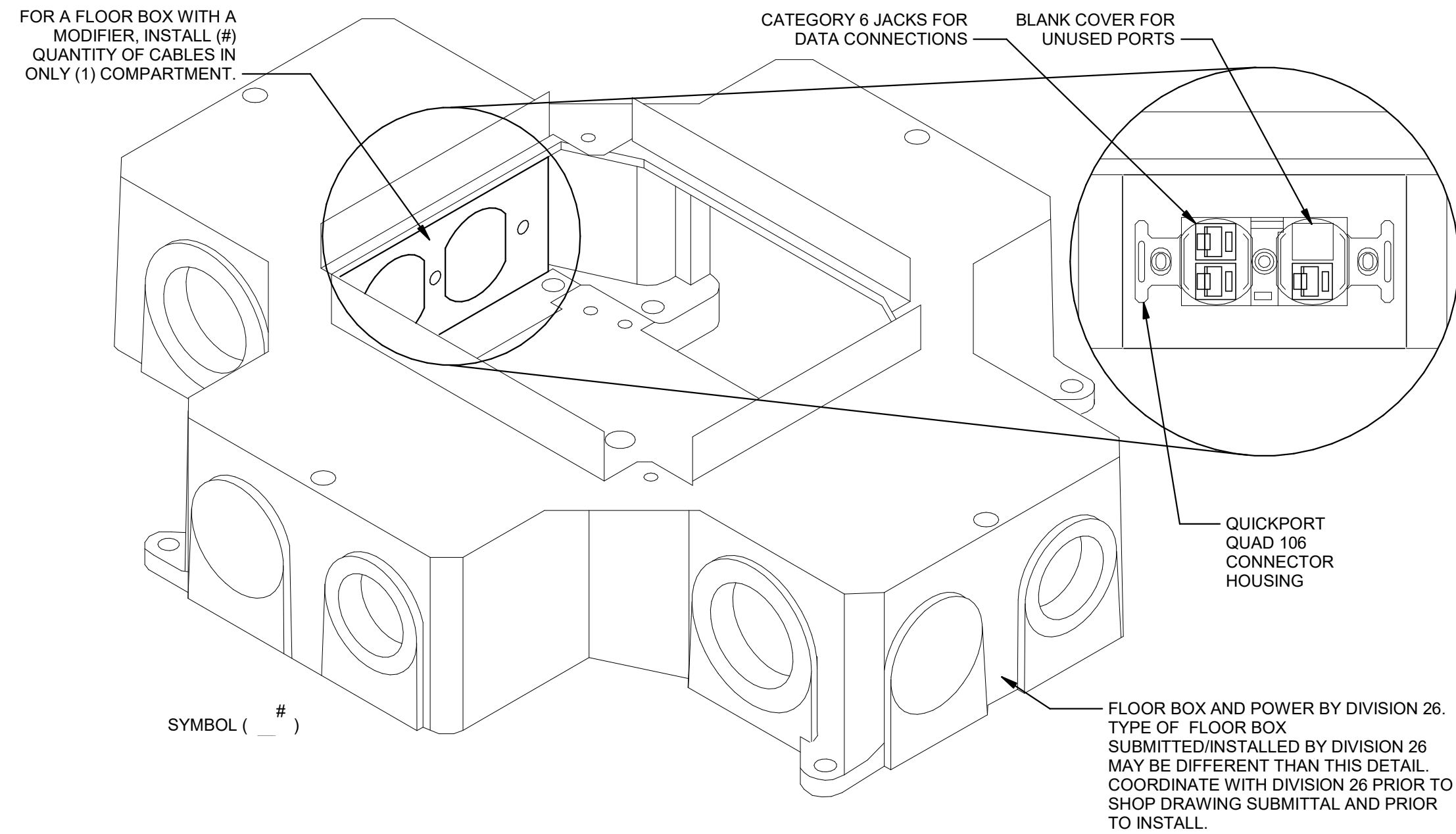
PROJECT NO: 2150001291
DATE: 10.26.2022
DRAWN BY: J. CORONADO
CHK'D BY: M. MAURER

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**TECHNOLOGY
DETAILS**

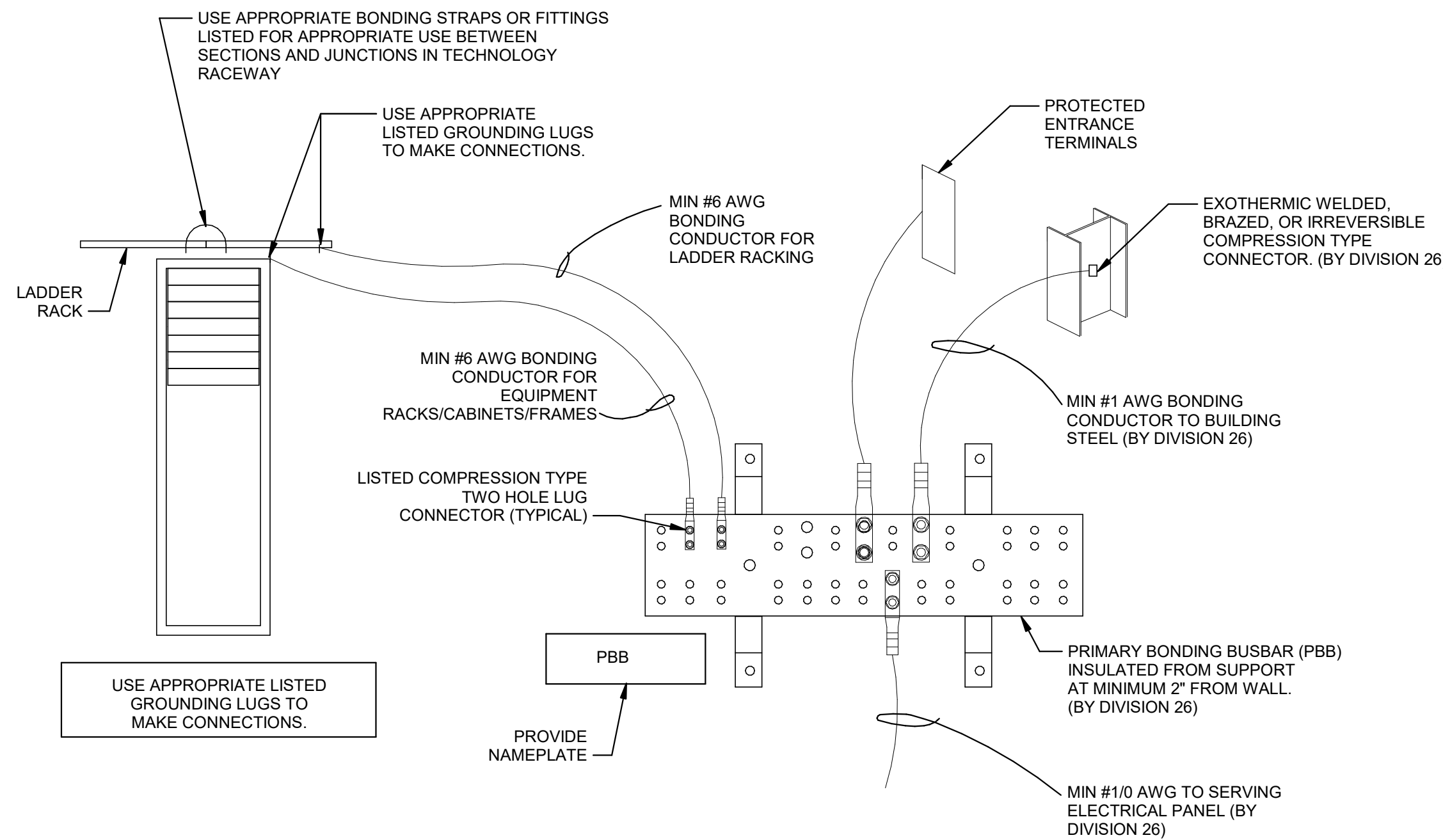
TN501

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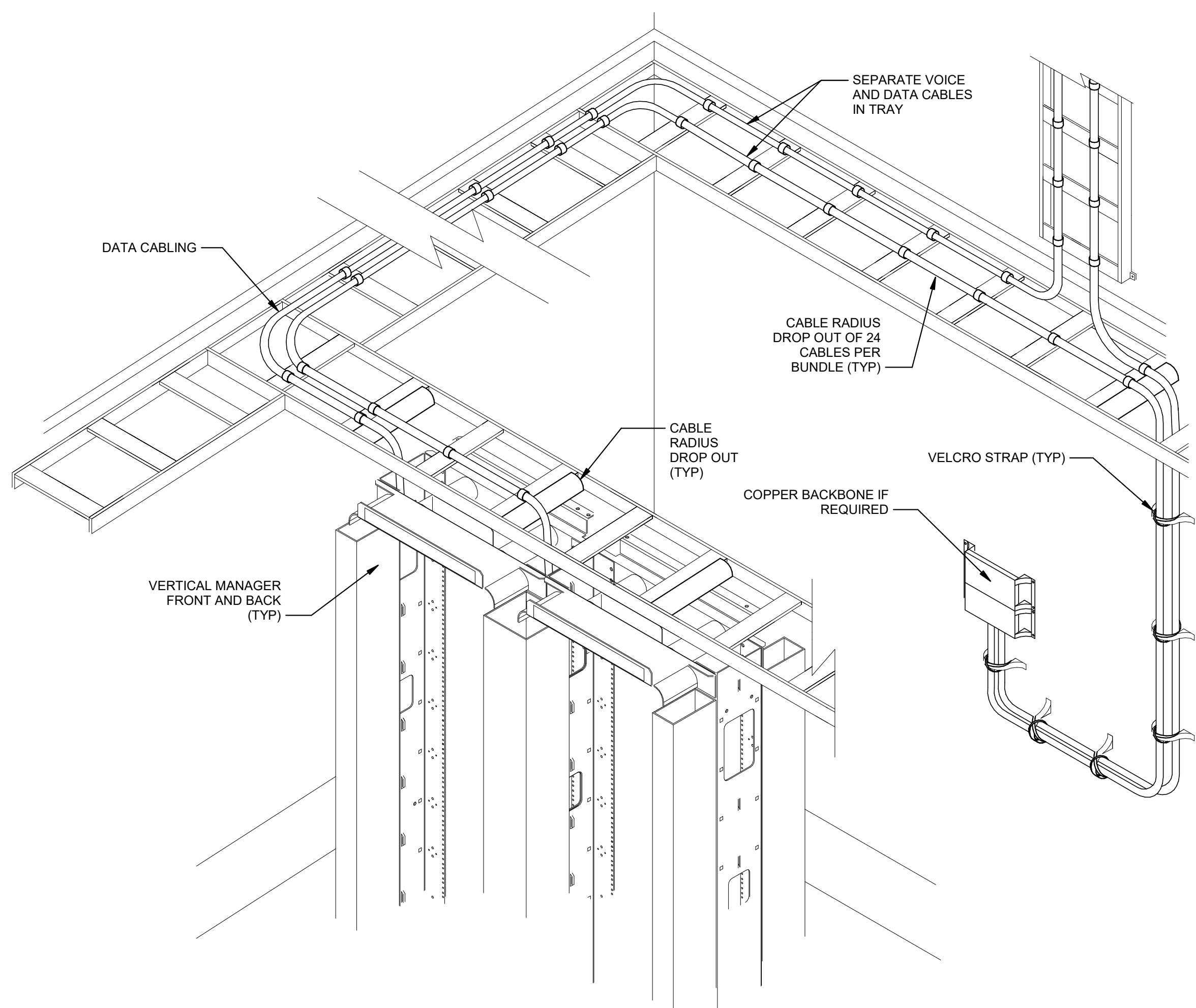
D1 FLOOR BOX

NOT TO SCALE



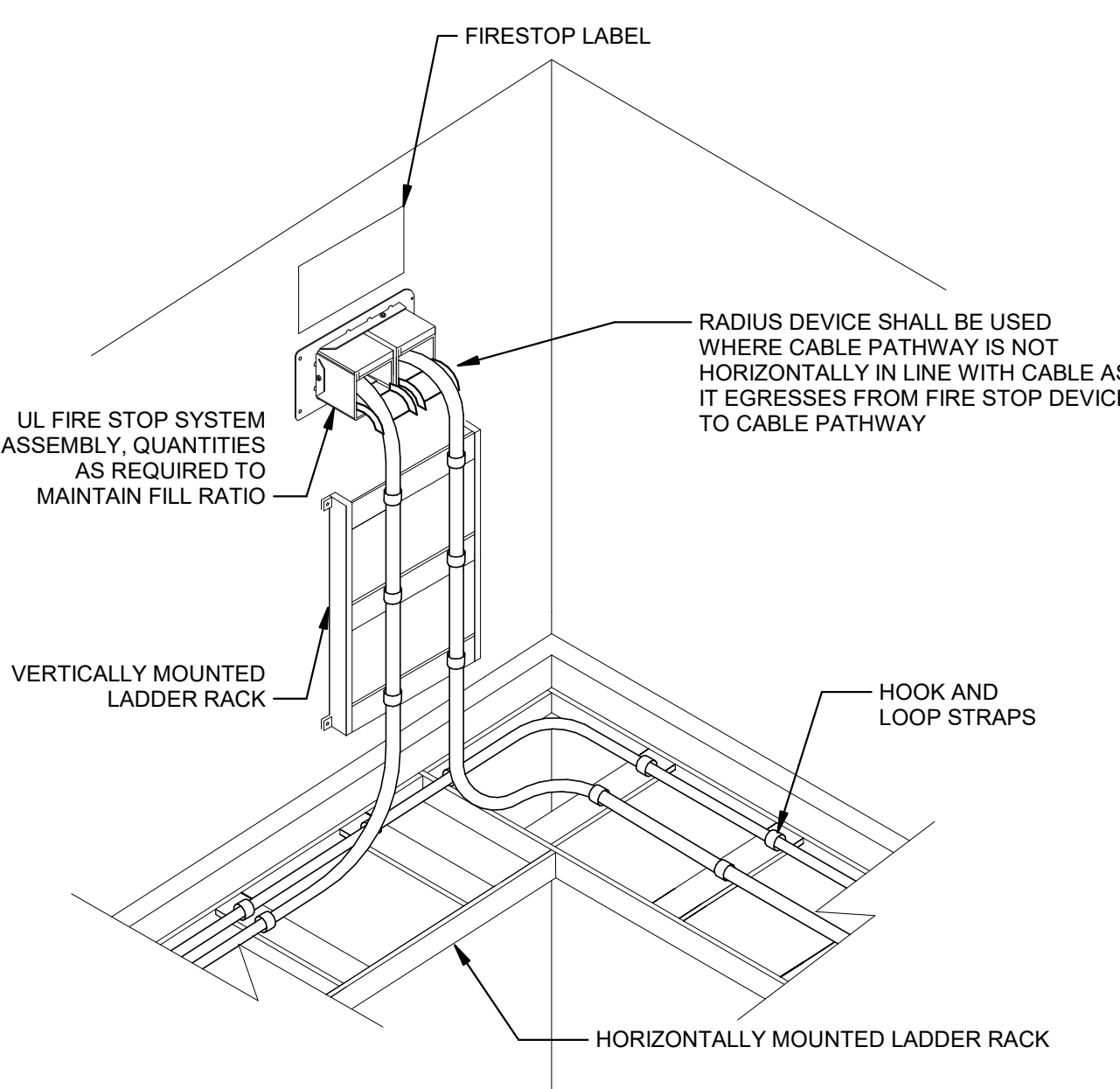
D5 PBB CONNECTIONS DIAGRAM

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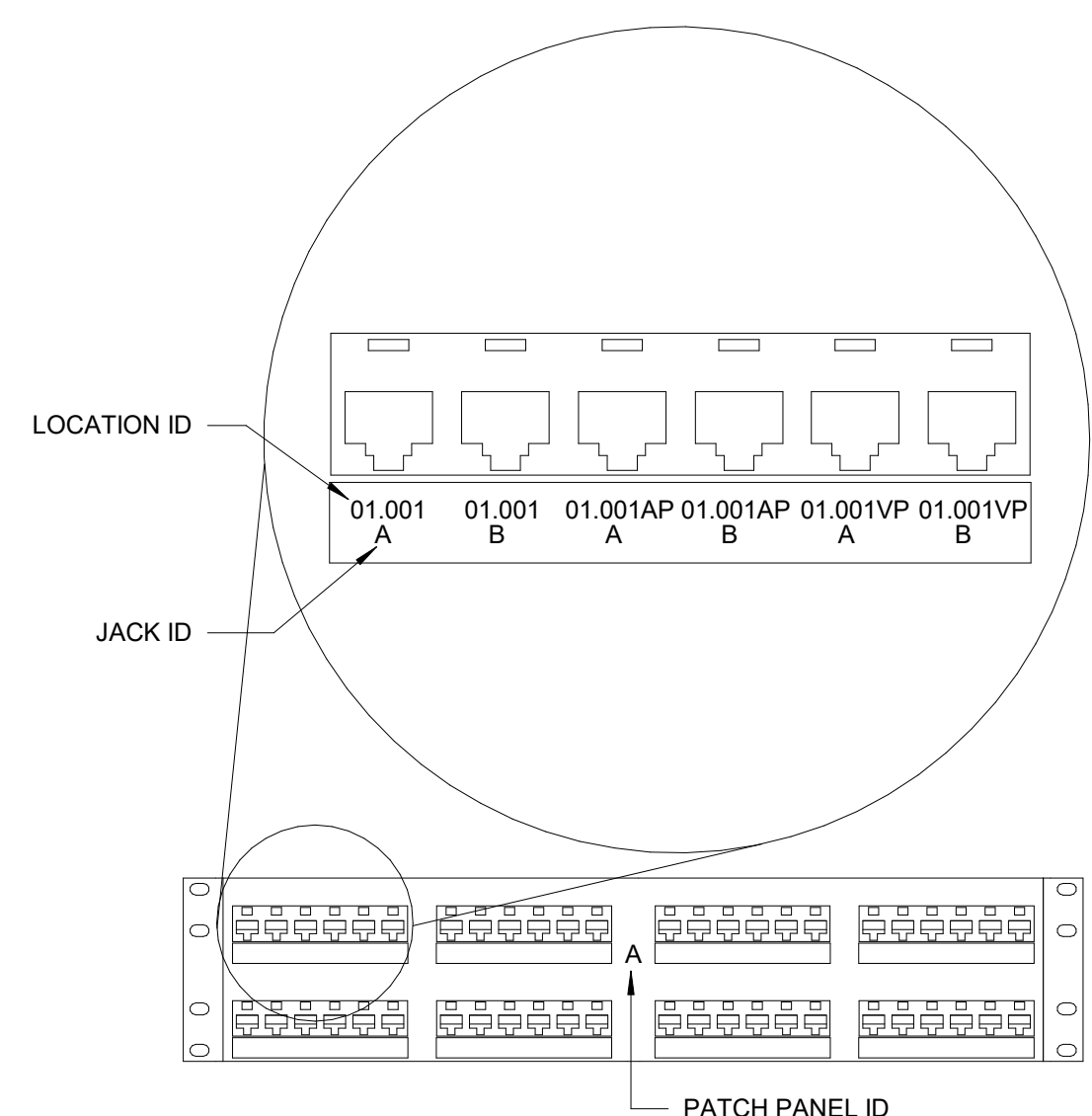
A1 TELECOM ROOM TRAY ALIGNMENT, BEND RADIUS TREATMENT

NOT TO SCALE



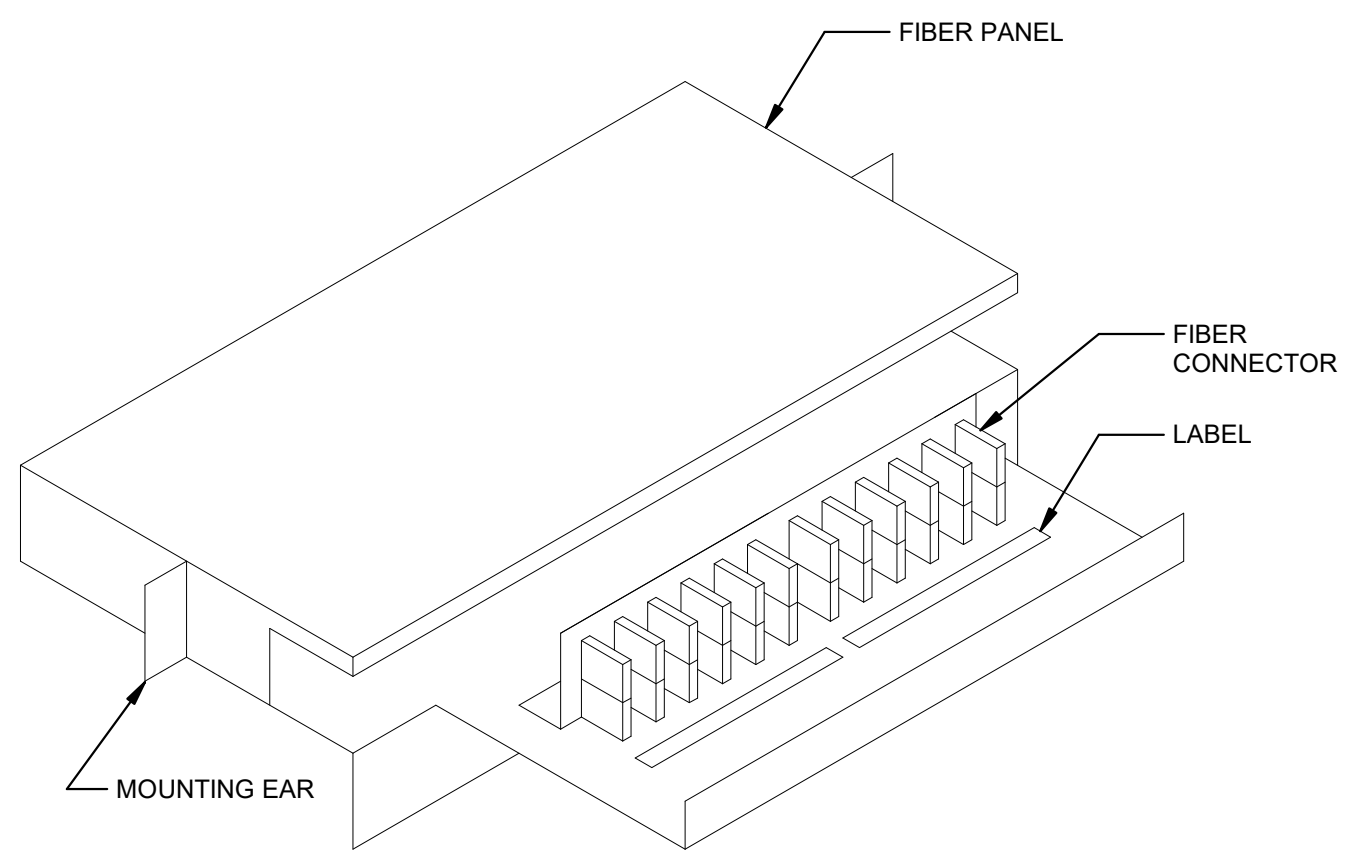
B4 FIRE STOP SYSTEM

NOT TO SCALE



B7 TYPICAL PATCH PANEL LABELING DETAIL

NOT TO SCALE



A4 FIBER PANEL

NOT TO SCALE

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FILE PATH: B:\360-1182252\FireStation_#4 and #5\2150001291 LSNO FIRE STATION_#5 v19.rvt

MARK D. MAURER







































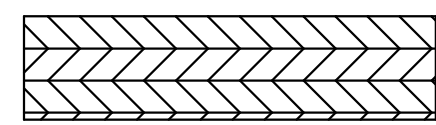
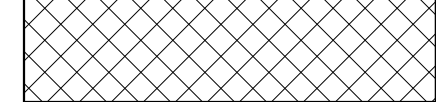
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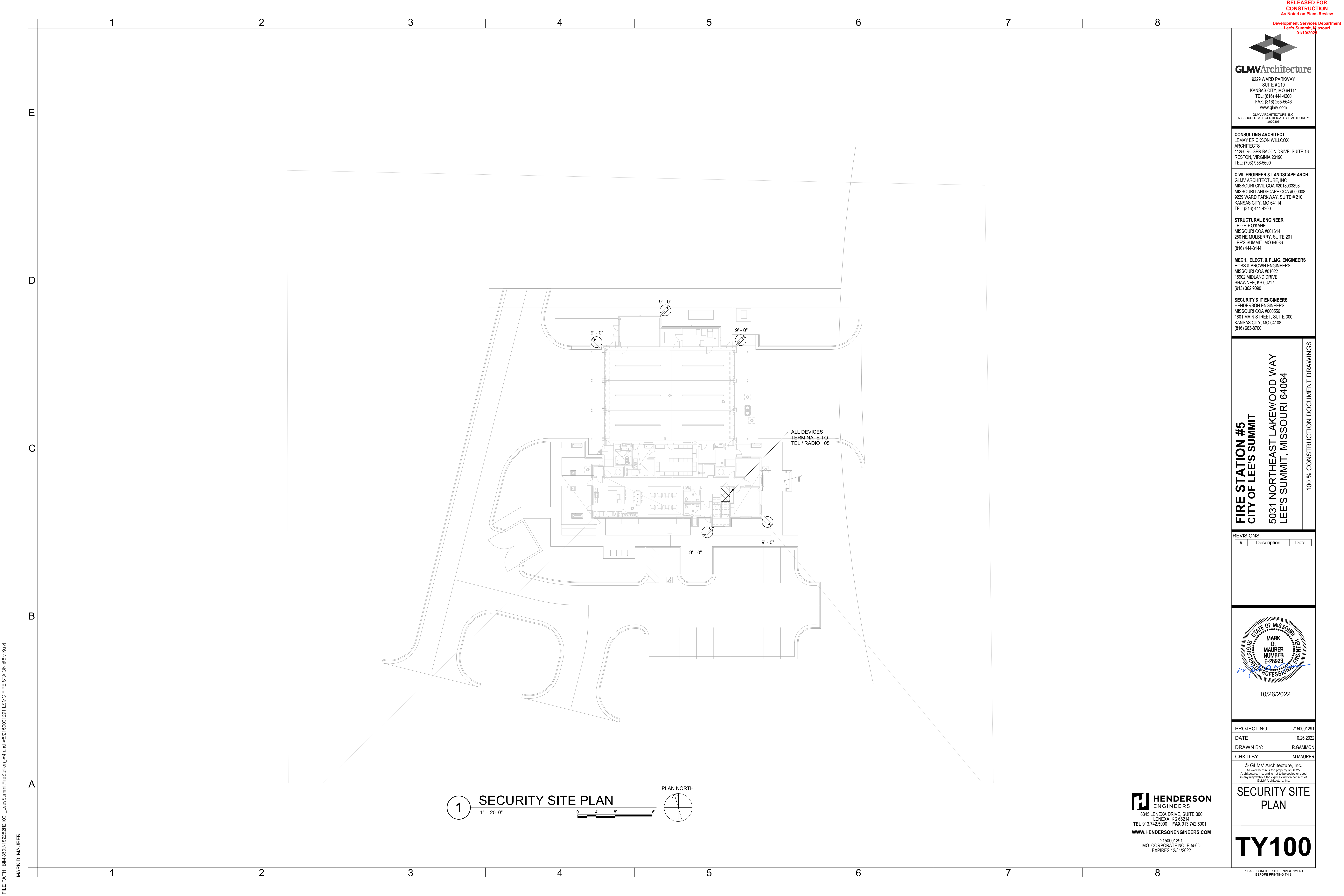
D

C

B

A

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.										V2.1												
STANDARD MOUNTING HEIGHTS				SECURITY SYMBOLS				CAMERA TYPE SCHEDULE														
INTERCOM (OPERABLE PART)		48"	   X	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 (AC) ACCESS CONTROL (SM) SECURITY MANAGEMENT (TS) TOUCHSCREEN CONTROL (VS) VIDEO SURVEILLANCE		02		360 DEGREE MULTISENSOR CAMERA	OUTDOOR	MULTI-SENSOR	HPOE	AVIGILON 360°	WHITE	DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.								
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				 		CARD READER TYPE SCHEDULE																
A AMPS		KVM KEYBOARD VIDEO MOUSE SWITCH	      		TYPE		FORM FACTOR		TECHNOLOGY		LOCATIONS		READ RANGE		POWER		MODELS		COLOR		COMMENTS	
ACP ACCESS CONTROL PANEL		LAN LOCAL AREA NETWORK	DOOR POSITION SWITCH ONLY SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE		01				RFID		INDOOR/ OUTDOOR				PANEL		HID SIGNO 40		BLACK		DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.	
ADA AMERICANS WITH DISABILITIES ACT		LED LIGHT-EMITTING DIODE	DOOR POSITION SWITCH AND LATCHBOLT MONITOR SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE		02				RFID		INDOOR/ OUTDOOR				PANEL		HID SIGNO 20		BLACK		DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.	
AFC ABOVE FINISHED CEILING		LF LINEAR FEET	ELECTRIFIED LOCKING DEVICE, REQUEST TO EXIT, DOOR POSITION SWITCH, AND LATCH BOLT MONITOR SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE																			
AFF ABOVE FINISHED FLOOR		MBS MAINTENANCE BYPASS SWITCH	ELECTRIFIED LOCKING DEVICE SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE																			
AFG ABOVE FINISHED GRADE		MDF MAIN DISTRIBUTION FRAME	EMERGENCY PHONE																			
AHJ AUTHORITY HAVING JURISDICTION		MFR MANUFACTURER	GLASS BREAK DETECTOR																			
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE		MH MAINTENANCE HOLE	INTERCOM (CR) WITH CARD READER (DS) DOOR STATION (RS) RECEIVING (MASTER) STATION (VS) VIDEO STATION																			
AV AUDIO-VIDEO		MM MULTIMODE	INMATE PHONE																			
AWG AMERICAN WIRE GAUGE		MPOE MAIN POINT OF ENTRANCE	KEYPAD (ID) INTRUSION DETECTION SYSTEM (AC) ACCESS CONTROL																			
BAS BUILDING AUTOMATION SYSTEM		MPOP MAIN POINT OF PRESENCE MOUNTED	LIGHTING CONTROL RELAYS																			
BD BUILDING DISTRIBUTOR		N/A NOT APPLICABLE	MOTION DETECTOR																			
BDF BUILDING DISTRIBUTION FRAME		NEG NATIONAL ELECTRICAL CODE	PANIC ALARM THREE-COLOR INDICATOR LIGHT																			
BFC BELOW FINISHED CEILING		NIC NOT IN CONTRACT	PANIC/DURESS BUTTON																			
BR BIOMETRIC READER		nm NANOMETER	REQUEST-TO-EXIT PUSH PAD																			
C CONDUIT		NRTL NATIONALLY RECOGNIZED TESTING LAB	REMOTE UNLOCK/OPEN BUTTON																			
CAT CATEGORY		NVR NETWORK VIDEO RECORDER	MICROPHONE STATUS LIGHT, WALL MOUNT																			
CC CENTRAL CONTROL		OC ON CENTER	MICROPHONE																			
CCTV CLOSED CIRCUIT TELEVISION		OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	MICROPHONE MUTE ILLUMINATED SWITCH																			
CD CAMPUS DISTRIBUTOR		OSP OUTSIDE PLANT	SPEAKER (DOOR BELL)																			
CMP COMMUNICATIONS PLENUM JACKET		POE POWER OVER ETHERNET	PAGING SPEAKER																			
CMR COMMUNICATIONS RISER JACKET		PON PASSIVE OPTICAL NETWORK	VAULT MONITOR																			
(D) REMOTE DEVICE		QTY QUANTITY	WATER CONTROL VALVE VALVE BY DIVISION 22. CONTROL BY DIVISION 28																			
DAS DISTRIBUTED ANTENNA SYSTEM		(R) RELOCATED EXISTING DEVICE	WATCH TOUR																			
dB DECIBELS		(RE) REMOVE EXISTING DEVICE AND INSTALL AT ANOTHER LOCATION, SEE (R)																				
DCS DOOR CONTROL SYSTEM		RMCD REMOTE MONITORING DEMOLITION																				
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																				
(ETR) EXISTING TO REMAIN		TR GROUND BUS BAR																				
(F) DOOR FRAME MOUNTED DEVICE		UPS UNINTERRUPTIBLE POWER SUPPLY																				
FAAP FIRE ALARM ANNUNCIATOR		UPSDP UNINTERRUPTIBLE POWER SUPPLY DISTRIBUTION																				
FACP FIRE ALARM CONTROL		V VOLT(S)																				
FACF FIRE ALARM CONTROL		VCM VERTICAL CABLE MANAGER																				
FD FLOOR DISTRIBUTOR		VMS VIDEO MANAGEMENT SYSTEM																				
FMC FLEXIBLE METAL CONDUIT		WAO WORK AREA OUTLET																				
FOR FIBER OPTIC RACK		WP WEATHER PROOF																				
FS FIRE STOP SYSTEM		WR WEATHER RESISTANT																				
FLR FLOOR		WT WATERTIGHT																				
GC GENERAL CONTRACTOR		XP EXPLOSION-PROOF																				
(GT) GUARD TOUR																						
GYP GYPSUM BOARD																						
HH HAND HOLE																						
HZ HERTZ																						
IMC INTERMEDIATE METAL CONDUIT																						
ICS INTERCOM CONTROL SYSTEM																						
IP INTERNET PROTOCOL																						
ISP INSIDE PLANT CABLE																						
J-BOX JUNCTION BOX																						
(K) ELECTRICALLY OPERATED BY KEY																						
KP KEY PAD																						
() - INDICATES MODIFIER FOR SPECIAL OPERATION IN LABELING SCHEME																						
ANNOTATION				SECURITY CAMERAS																		
 SECURITY PLAN CALLOUT				 FIXED CAMERA		 PTZ CAMERA		 360 CAMERA		 180 CAMERA		 TWO IMAGER CAMERA										
 CONNECTION POINT OF NEW WORK TO EXISTING				 FOUR IMAGER CAMERA																		
 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER																						
 SECTION CUT DESIGNATION																						
 DEDICATED EQUIPMENT ACCESS TILE																						
 ACCESS PANEL																						
LINETYPE LEGEND				MOUNTING TYPE SYMBOLS (APPLIES TO ANY SECURITY DEVICE SYMBOL)																		
THROUGHOUT THE DRAWINGS DIFFERENT LINE-TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE EXISTING, TO BE DEMOLISHED, AS 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.				 CEILING MOUNT		 WALL MOUNT		 POLE / BOLLARD MOUNT		 CORNER MOUNT		 PENDANT MOUNT		 WALL MOUNT PENDANT ARM								
EXISTING		NEW		LABELING SCHEME																		
DEMOLISH		FUTURE		SECURITY DEVICES (TYPICAL)																		
				 XX YY		A: DEVICE SYMBOL		XX: MODIFIER FOR SPECIAL OPERATION IF APPLICABLE		YY: DEVICE TYPE												
				SEE MATCHING SCHEDULES ON THIS SHEET (IF APPLICABLE)																		
SECURITY CAMERAS (TYPICAL)				CALL OUTS																		
 C-XX		XX: CAMERA NUMBER		 AA		AA: CAMERA TYPE (SEE CAMERA SCHEDULE ON THIS PAGE)		 ## AFF		FOR WALL MOUNTED CAMERAS, HEIGHT ABOVE FINISHED FLOOR												
				SEE MATCHING SCHEDULES ON THIS SHEET (IF APPLICABLE)																		
ENLARGED PLAN CALLOUT																						
NOT IN SCOPE																						



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FIRE STATION #5
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:		
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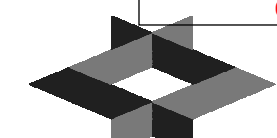
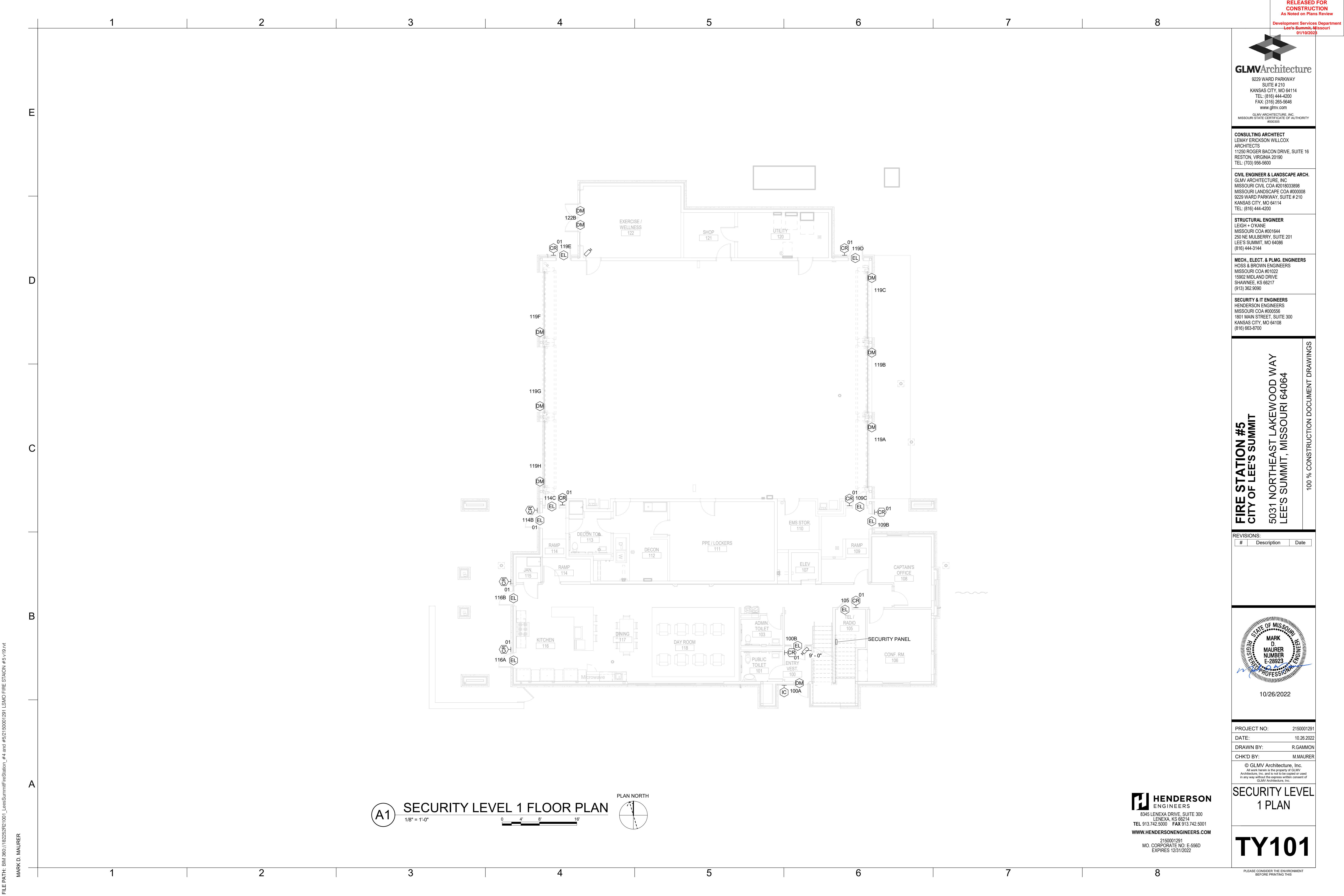
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**SECURITY SITE
PLAN**

TY100

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2150001291
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2022

1 SECURITY SITE PLAN
1" = 20'-0"
0 4' 8' 16'
PLAN NORTH



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FIRE STATION #5
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100 % CONSTRUCTION DOCUMENT DRAWINGS

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

SECURITY LEVEL
1 PLAN

TY101



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FIRE STATION #5
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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REVISIONS:		
#	Description	Date



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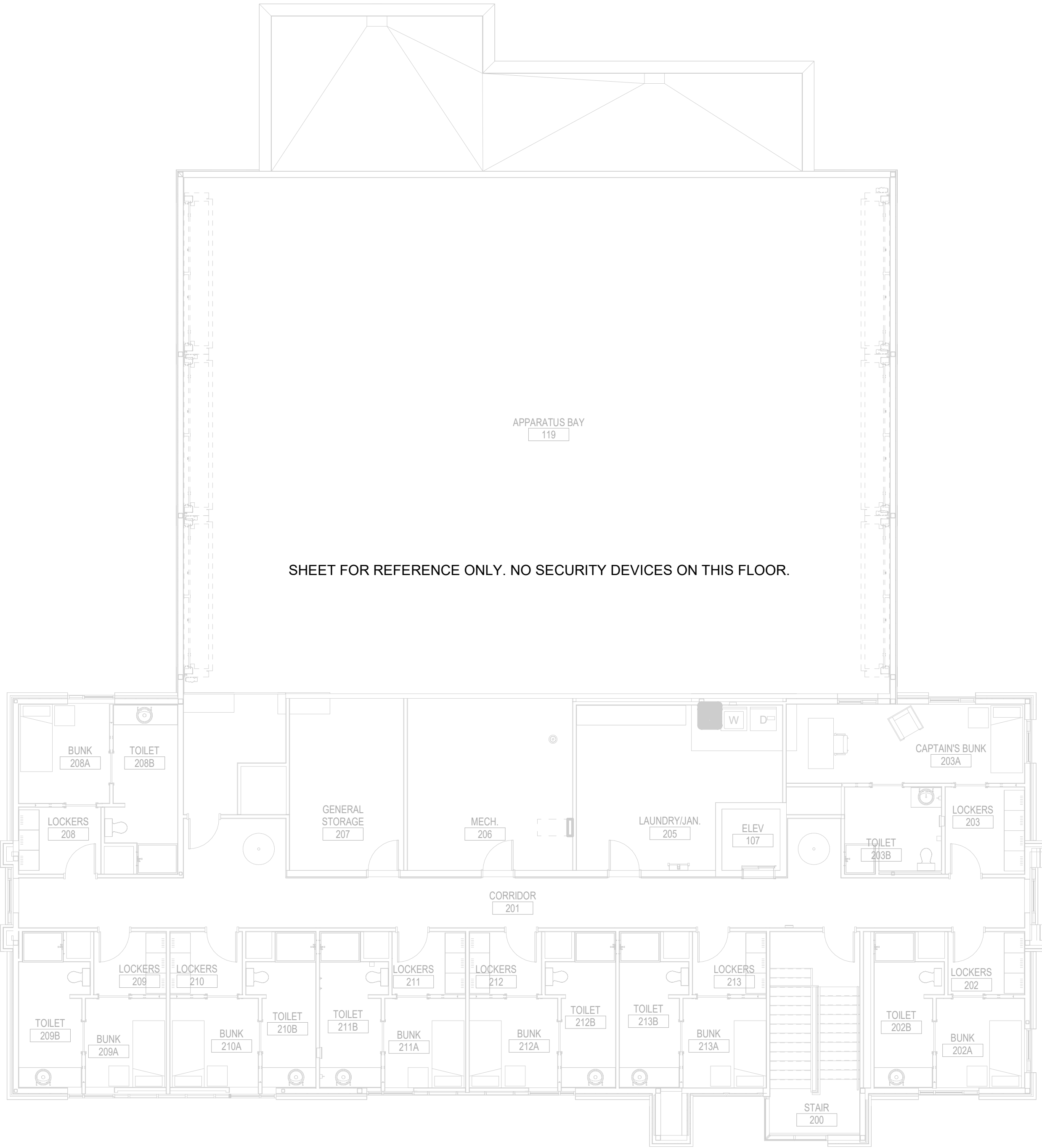
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DATE:	10.26.2022
DRAWN BY:	R.GAMMON
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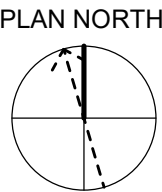
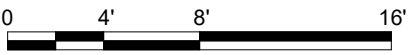
SECURITY LEVEL
2 PLAN


TY102

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





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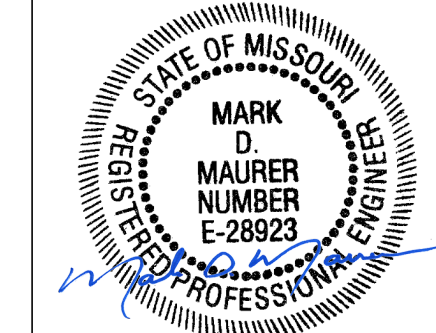
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10/26/2022

PROJECT NO:	21500012
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DRAWN BY: R GAMMO

CHK'D BY:	M MAURE
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