

CITY OF LEE'S SUMMIT FIRE STATION #5

801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

100% CONSTRUCTION DOCUMENT DRAWINGS

TERMS AND ABBREVIATIONS

ABBREVIATION	TERM	CONST	CONSTRUCTION	FHC	FIRE HOSE CABINET	FLUOR LT	FLUORESCENT LIGHT(ING)	RD	ROOF DRAIN
A	LABEL	CLASS A DOOR	CONSULTANT	FHP	FULL HEIGHT PARTITION	LT GA	LIGHT GAGE	RDG INS	RIGID INSULATION, SOLID
A/C	AIR CONDITIONING UNIT	AIR CONDITIONING UNIT	CONTINUE	FIN	FINISH	LTG	LIGHTING	REBAR	REINFORCING STEEL BARS
A/C UNIT	AIR CONDITIONING UNIT	AIR CONDITIONING UNIT	COORD	FIN BS	FINISH BOTH SIDES	LVR	LOUVER	REF	REFERENCE
A/E	ARCHITECT/ENGINEER	ARCHITECT/ENGINEER	CORR	FIN FLR	FINISH FLOOR	LW PLAS	LIGHTWEIGHT PLASTER	REINF	REINFORCE(D)
AB	ANCHOR BOLT	ANCHOR BOLT	COV PL	FIN GR	FINISH GRADE	LWC	LIGHTWEIGHT CONCRETE	REQ	REQUIRED
ABBRV	ABBREVIATION	ABBREVIATION	CP	FIN WD	FINISH WOOD			REQD	REQUIRED
ACC	ACCESSIBLE	ACCESSIBLE	CPT	FLG	FLOOR FINISH			RESIL	RESILIENT
ACoust INSUL	ACOUSTICAL INSULATION	ACOUSTICAL INSULATION	CRT YD	FLR	FLOOR			REV	REVISION
ACoust PNL	ACOUSTICAL PANEL	ACOUSTICAL PANEL	CS	FLR FIN	FLOOR FINISH			RHR	RIGHT HAND REVERSE
ACS DR	ACCESS DOOR	ACCESS DOOR	CSG	FLR PL	FLOOR PLATE			RLG	RAILING
ACS FLR	ACCESS FLOOR	ACCESS FLOOR	CSI	FLR SK	FLOOR SINK			RM	ROOM
ACS PNL	ACCESS PANEL	ACCESS PANEL	CSK	FN	FENCE			RO	ROUGH OPENING
ACT	ACOUSTICAL CEILING TILE	ACOUSTICAL CEILING TILE	CSMT	FOUNT	FOUNTAIN			RSD	ROLLING STEEL DOOR
ADA	AMERICANS WITH DISABILITIES ACT	AMERICANS WITH DISABILITIES ACT	CSWL	FR	FIRE RATING			RT	RIGHT
AFF	ABOVE FINISHED FLOOR	ABOVE FINISHED FLOOR	CT	FRM	FRAMING			RTF	RUBBER TILE FLOOR
AGGR	AGGREGATE	AGGREGATE	CT STN	FRP	FIBERGLASS REINFORCED PLASTIC			RTG	RATING
AHU	AUTHORITY HAVING JURISDICTION	AUTHORITY HAVING JURISDICTION	CTB	FRST GL	FROSTED GLASS			RTU	ROOF TOP UNIT
AIA	AMERICAN INSTITUTE OF ARCHITECTS	AMERICAN INSTITUTE OF ARCHITECTS	CTG	FRTW	FIRE RETARDANT TREATED WOOD			RV	ROOF VENT
ALM	ALARM	ALARM	CTH					RVL	REVEAL
ALT	ALTERNATE	ALTERNATE	CTR					S	
ALT NO	ALTERNATE NUMBER	ALTERNATE NUMBER	CTR					SBS	
ALUM	ALUMINUM	ALUMINUM	CTL					SBSTR	SCHEDEL
ANN	ANNUNCIATOR	ANNUNCIATOR	CU FT					SCMU	SOLID CONCRETE MASONRY UNIT
ANOD	ANODIZE	ANODIZE	CU IN					SCUP	SCUPPER
APC	ACOUSTICAL PANEL CEILING	ACOUSTICAL PANEL CEILING	CU YD					SCRN	SCREEN(ED)
APFD	APPROVED	APPROVED	CURT					SCWD	SOLID CORE WOOD DOOR
APPROX	APPROXIMATE	APPROXIMATE						SDG	SIDING
ARCH	ARCHITECT	ARCHITECT						SDMPR	SMOKE DAMPER
ASKLR	AUTOMATIC SPRINKLER	AUTOMATIC SPRINKLER						SECT	SECTION
ASPH	ASPHALT	ASPHALT						SF	SQUARE FOOT (FEET)
AV	AUDIO VISUAL	AUDIO VISUAL						SHT	SHEET METAL FLASHING
B	LABEL	CLASS B DOOR						SHTG	SMOKE
B PL	BASE PLATE	BASE PLATE						SHV	SIMILAR
BAS	BUILDING AUTOMATION SYSTEM	BUILDING AUTOMATION SYSTEM						SJ	SCORED JOINT
BB	BASEBOARD	BASEBOARD						SLDG	SLIDING
BC	BOOKCASE	BOOKCASE						SLNT	SLANT
BD	BOARD	BOARD						SND	SANITARY NAPKIN DISPENSER
BDRY	BOUNDARY	BOUNDARY						SND INS	SOUND INSULATION
BFF	BUILDING FINISH(ED) FLOOR	BUILDING FINISH(ED) FLOOR						SP EL	SPOT ELEVATION
BHMA	BUILDERS HARDWARE	BUILDERS HARDWARE						SPFC	SPECIFICATION
BITUM	BITUMINOUS	BITUMINOUS						SPKL	SPRINKLER
BLKHD	BULKHEAD	BULKHEAD						SQ	SQUARE
BLT IN	BUILT IN	BUILT IN						SQ INCH	SQUARE INCH
BLW CLG	BELOW CEILING	BELOW CEILING						SQ YD	SQUARE YARD
BN	BULLNOSE	BULLNOSE						SS	STAINLESS STEEL
BRCG	BRACING	BRACING						STC	SOUND TRANSMISSION CLASS
BRDG	BRIDGING	BRIDGING						STD	STANDARD
BRDG JST	BRIDGING JOIST	BRIDGING JOIST						STL JST	STEEL JOIST
BRG	BEARING	BEARING						STL LNTL	STEEL LINTEL
BRG PL	BEARING PLATE	BEARING PLATE						STL PL	STEEL PLATE
BRZ	BRONZE	BRONZE						STL RF OK	STEEL ROOF DECK
BTWN	BETWEEN	BETWEEN						STL TB	STEEL TUBE
BUR	BUILT-UP ROOFING	BUILT-UP ROOFING						STL TR	STEEL TRUSS
C	LABEL	CLASS C DOOR						STOR	STORAGE
CAB	CABINET	CABINET						STRUCT	STRUCTURAL
CAC	CEILING ATTENUATION	CEILING ATTENUATION						STRUCT STL	STRUCTURAL STEEL
CLASS								SUSP	SUSPEND
CATW	CATWALK	CATWALK						SUSP CLG	SUSPENDED CEILING
CBB	CEMENTITIOUS BACKER BOARD	CEMENTITIOUS BACKER BOARD						SV	SHEET VINYL
CEM	CEMENT	CEMENT						SYM	SYMBOL
CEM FIN	CEMENT FINISH	CEMENT FINISH						SYS	SYSTEM
CEM PLAS	CEMENT PLASTER	CEMENT PLASTER						T	TOWEL BAR
CEM PLAS CLG	CEMENT PLASTER CEILING	CEMENT PLASTER CEILING						TB	TROUGH DRAIN
CER	CERAMIC	CERAMIC						TE	TOP ELEVATION
CF	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED						TEMP	TEMPORARY
CF/CI	CONTRACTOR FURNISHED/OWNER INSTALLED	CONTRACTOR FURNISHED/OWNER INSTALLED						TER	TERRAZZO
CFE	EQUIPMENT	EQUIPMENT						TF	TOP OF FINISH FLOOR
CFLG	COUNTERFLASHING	COUNTERFLASHING						THK	THICKNESS
CFMF	COLD-FORMED METAL FRAMING	COLD-FORMED METAL FRAMING						THRU	THROUGH
CG	CORNER GUARD	CORNER GUARD						TMPD	TEMPERED
CHFR	CHAMFER	CHAMFER						TMPD GL	TEMPERED GLASS
CI	CAST IRON	CAST IRON						TPD	TOILET PAPER DISPENSER
CIP	CAST-IN-PLACE	CAST-IN-PLACE						TRTD	TRIM
CIR	CIRCLE	CIRCLE						TV	TUBE STEEL
CJ	CONNECTION JOINT	CONNECTION JOINT						TV	TELEVISION
CL	CENTER LINE	CENTER LINE						U	UNDERGROUND
CLDG	CLADDING	CLADDING						UGND	UNDERWRITERS
CLG DIFF	CEILING DIFFUSER	CEILING DIFFUSER						UL	UNLESS NOTED OTHERWISE
CLG GR	CEILING GRILLE	CEILING GRILLE						UNFIN	UNFINISHED
CLG HT	CEILING HEIGHT	CEILING HEIGHT						UNO	UNLESS NOTED OTHERWISE
CLG REG	CEILING REGISTER	CEILING REGISTER						V	VANITY
CLK JT	CAULKED JOINT	CAULKED JOINT						VAN	VAPOR PROOF
CLR	COLOR	COLOR						VAP PRF	VINYL BASE
CMFST	COMPOSITE	COMPOSITE						VB	VINYL COMPOSITION TILE
CMPTFR	COMPUTER	COMPUTER						VCT	VESTIBULE
CMU	CONCRETE MASONRY UNIT	CONCRETE MASONRY UNIT						VCT	VINYL FACED ACOUSTICAL TILE
CNR	CORNER	CORNER						VENEER	VENEER
CNTOR	CONTRACTOR	CONTRACTOR						VFR	VAPOR RETARDER
CNTR	COUNTER	COUNTER						VFRY	VERIFY
CO	COLUMN	COLUMN						VTR	VENT THROUGH ROOF
COL	COMMUNICATION	COMMUNICATION						VWC	VINYL WALL COVERING
COMM	CONCRETE	CONCRETE						VWF	VINYL WALL FABRIC
CONC	CONCRETE FLOORING	CONCRETE FLOORING						W	WALL CABINETS
CONC FLR	CONCRETE FLOORING	CONCRETE FLOORING						W CAB	WITHOUT
CONC OPNG	CONCRETE OPENING	CONCRETE OPENING						W/O	WOOD BLOCK

GRAPHIC SYMBOLS LEGEND

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

MATERIAL SYMBOLS LEGEND

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

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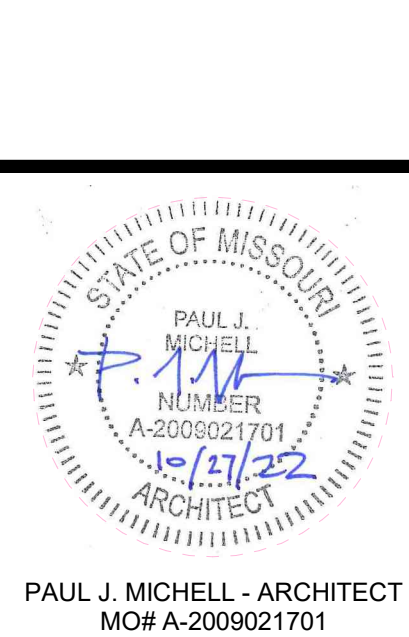
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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082
100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

PROJECT NO: 18225R21001
DATE: 10.27.2022
DRAWN BY: CRB
CHK'D BY: PJM

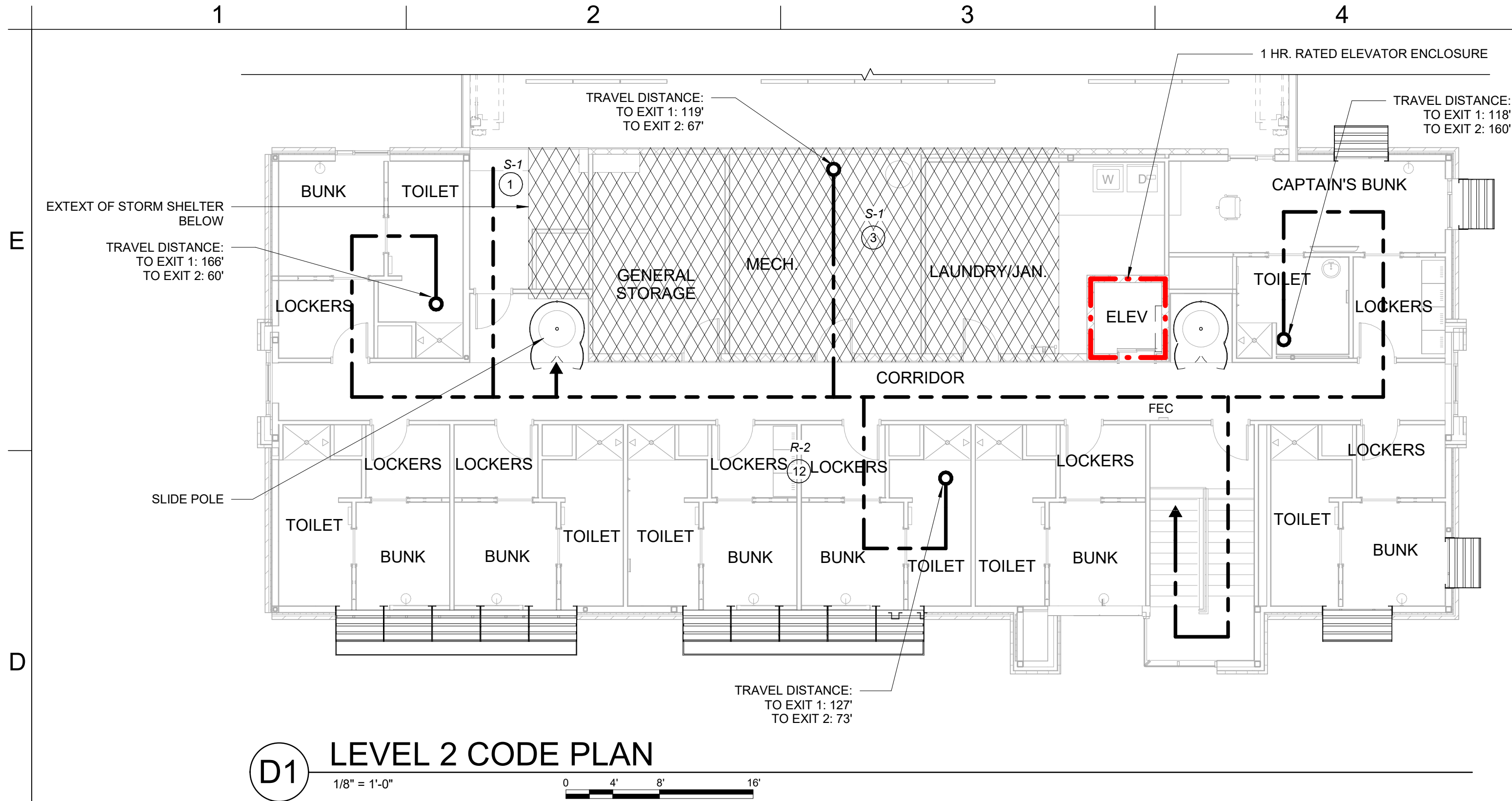
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COVER SHEET

G-001

PLEASE CONSIDER THE ENVIRONMENT
BEFORE PRINTING THIS

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



CODE INFORMATION

I. Applicable Codes

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

II. Building Information:

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

III. Code Compliance Summary:

A. Building Height & Area:

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

2. Allowable:

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

3. Proposed:

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

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

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

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

B. Fire Resistance Ratings

1. Building Elements per IBC Table 601

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

2. Corridors with Sprinkler System per IBC-T 1020.1

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

Notes:

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

3. Exterior Walls per Separation Distance IBC Table 602:

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

4. Maximum Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening

Protection per IBC Table 705.8

5 to less than 10 feet, Unprotected, Sprinklered (UP,S)

25%

5. Accessory Storage room separation (>100sf)

Occupant Load (IBC Table 1004.5)		0 hr.
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'.

F. Maximum Common Path of Egress Travel

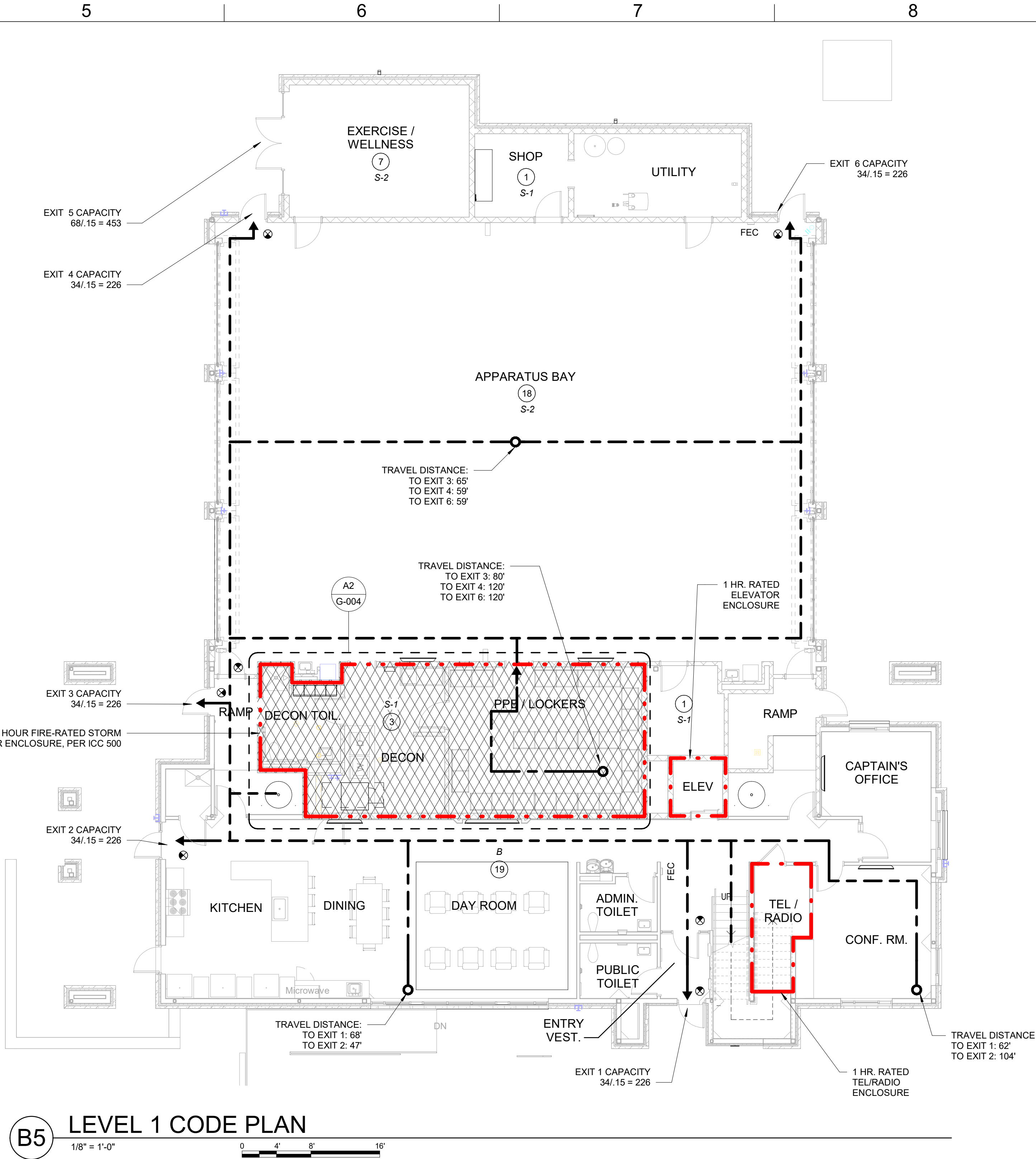
1. Per IBC Table 1006.2.1	Required
B, S	100 ft
R-2	125 ft
All others	75 ft

G. Sprinkler System

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

H. Fire Alarm System

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



CODE PLAN LEGEND

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

INTERIOR FINISH REQUIREMENTS

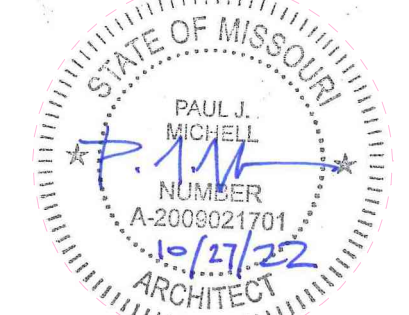
PER IBC TABLE 803.5

Group	Exit enclosures and exit passageways	Corridors	Rooms and enclosed spaces
B, E, M, R-1, R-4	B	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.

REVISIONS:

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



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

The Professional Architects seal affixed to this sheet signifies only to the extent and terms shown on the seal. All other drawings, documents or other documents not including the seal shall not be considered prepared by the architect, and the architect assumes no responsibility for such drawings, documents or other documents not including the seal.

PROJECT NO: 18225R21001

DATE: 10.27.2022

DRAWN BY: JSP

CHK'D BY: PJM

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CODE SUMMARY

G-002

CODE MODIFICATION 1:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

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

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064
FS #5: 801 Missouri Highway 150, Lee's Summit, Missouri 64082

PERMIT NUMBER (if applicable):

OWNER'S NAME: City of Lee's Summit

TO: Director of Development Services

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

Please see attached memo

SUBMITTED BY:
NAME: Matthew Fadel () OWNER (X) OWNER'S AGENT
ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600
CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

TRACY DEISTER - CODES ADMINISTRATION MANAGER () APPROVAL (X) DENIAL
SIGNATURE: Tracy Deister DATE: 8/1/2022

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: () APPROVED (X) DENIED
SIGNATURE: [Signature] DATE:

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

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

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

Guidance on the 2010 ADA Standards for Accessible Design: Volume 2 https://www.ada.gov/reg2010/2010ADAStandards/Guidance2010ADASt...

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

After considering these comments, the Department has decided to continue to use the commencement of physical construction as the triggering event for application of the 2010 Standards for entities covered by title II. The Department has also added clarifying language at Sec. 35.151(c)(1) to the regulation to make it clear that the date of ceremonial groundbreaking or the date a structure is razed to make it possible for construction of a facility to take place does not qualify as the commencement of physical construction.

Section 234 of the 2010 Standards provides accessibility guidelines for newly designed and constructed amusement rides. The amusement ride provisions do not provide a "triggering event" for new construction or alteration of an amusement ride. An industry commenter requested that the triggering event of "first use," as noted in the Advisory note to section 234.1, of the 2004 ADAAG, be included in the final rule. The Advisory note provides that "[a] custom designed and constructed ride is new upon its first use, which is the first time amusement park patrons take the ride." The Department declines to treat amusement rides differently than other types of new construction and alterations. Under the final rule, they are subject to Sec. 35.151(c). Thus, newly constructed and altered amusement rides shall comply with the 2010 Standards if the start of physical construction or the alteration is on or after 18 months from the publication date of this rule. The Department also notes that section 234.4.2 of the 2010 Standards only applies where the structural or operational characteristics of an amusement ride are altered. It does not apply in cases where the only change to a ride is the theme.

Noncomplying new construction and alterations. The element-by-element safe harbor referenced in Sec. 35.150(b)(2) has no effect on new or altered elements in existing facilities that were subject to the 1991 Standards or UFAS on the date that they were constructed or altered, but do not comply with the technical and scoping specifications for those elements in the 1991 Standards or UFAS. Section 35.151(c)(1) of the final rule sets forth the rules for noncompliant new construction or alterations in facilities that were subject to the requirements of the part. Under those rules, a facility that is noncomplying new construction and alterations constructed or altered after the effective date of the applicable ADA requirements and before March 15, 2012, shall, before March 15, 2012, be made accessible in accordance with either the 1991 Standards, UFAS, or the 2010 Standards. Noncomplying new construction and alterations constructed or altered after the effective date of the applicable ADA requirements and before March 15, 2012, shall, on or after March 15, 2012 be made accessible in accordance with the 2010 Standards.

§ 35.151(e) Scope of coverage

In the NPRM, the Department proposed a new provision, Sec. 35.151(f), to clarify that the requirements established by Sec. 35.151, including those contained in the 2004 ADAAG, prescribe what is necessary to ensure that buildings and facilities, including fixed or built-in elements in new or altered facilities, are accessible to individuals with disabilities. Once the construction or alteration of a facility has been completed, all other aspects of programs, services, and activities conducted in that facility are subject to the operational requirements established in this final rule. Although the Department may use the requirements of the 2010 Standards as a guide to determining when and how to make equipment and furnishings accessible, those determinations fall within the discretionary authority of the Department.

The Department also wishes to clarify that the advisory notes, appendices notes, and figures that accompany the 1991 and 2010 Standards do not establish separately enforceable requirements unless specifically stated otherwise in the text of the standards. This clarification has been made to address concerns expressed by AHPRM commenters who mistakenly believed that the advisory notes in the 2004 ADAAG established requirements beyond those established in the text of the guidelines (e.g., Advisory S04.4 suggests, but does not require, that covered entities provide physical contrast on stair tread nosing to make them more visible to individuals with low vision). The Department received no significant comments on this section and it is unchanged in the final rule.

Definitions of residential facilities and transient lodging. The 2010 Standards add a definition of "residential dwelling unit" and modify the current definition of "transient lodging." Under section 106.3 of the 2010 Standards, "residential dwelling unit" is defined as "a unit intended to be used as a residence, that is primarily long-term in

*Guidance on the 2010 ADA Standards for Accessible Design: Volume 2 https://www.ada.gov/reg2010/2010ADAStandards/Guidance2010ADASt...

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

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

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

§ 35.151(e) Social service center establishments

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

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

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

CODE MODIFICATION 2:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

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

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064
FS #5: 801 Missouri Highway 150, Lee's Summit, Missouri 64082

PERMIT NUMBER (if applicable):

OWNER'S NAME: City of Lee's Summit

TO: Director of Development Services

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

Please see attached memo

SUBMITTED BY:
NAME: Matthew Fadel () OWNER (X) OWNER'S AGENT
ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600
CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

TRACY DEISTER - CODES ADMINISTRATION MANAGER (X) APPROVAL () DENIAL
SIGNATURE: Tracy Deister DATE: 8/1/2022

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: (X) APPROVED () DENIED
SIGNATURE: [Signature] DATE:

COMMENTS:

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

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

CODE MODIFICATION 3:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

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

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064
FS #5: 801 Missouri Highway 150, Lee's Summit, Missouri 64082

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Please see attached memo

SUBMITTED BY:
NAME: Matthew Fadel () OWNER (X) OWNER'S AGENT
ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600
CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

Tracy Deister - Codes Administration Manager (X) APPROVAL () DENIAL
SIGNATURE: Tracy Deister DATE:

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: (X) APPROVED () DENIED
SIGNATURE: [Signature] DATE:

COMMENTS:

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Development Services
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FSMA ARCHITECTS
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MISSOURI LANDSCAPE COA #000008
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STRUCTURAL ENGINEER
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LEE'S SUMMIT, MO 64086
(816) 444-3144

MECH., ELEC. & PLUMB. ENGINEERS
HOSSE & 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) 863-8700

FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082
100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:
Description Date



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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PROJECT NO: 18225R21001
DATE: 10.27.2022
DRAWN BY: JSP
CHK'D BY: PJM

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CODE MODIFICATION

G-003

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS

FILE PATH: BM 380-118225R21001_LeesSummitFireStation_#4 and #5LSMO_FIRE STATION 5.rvt

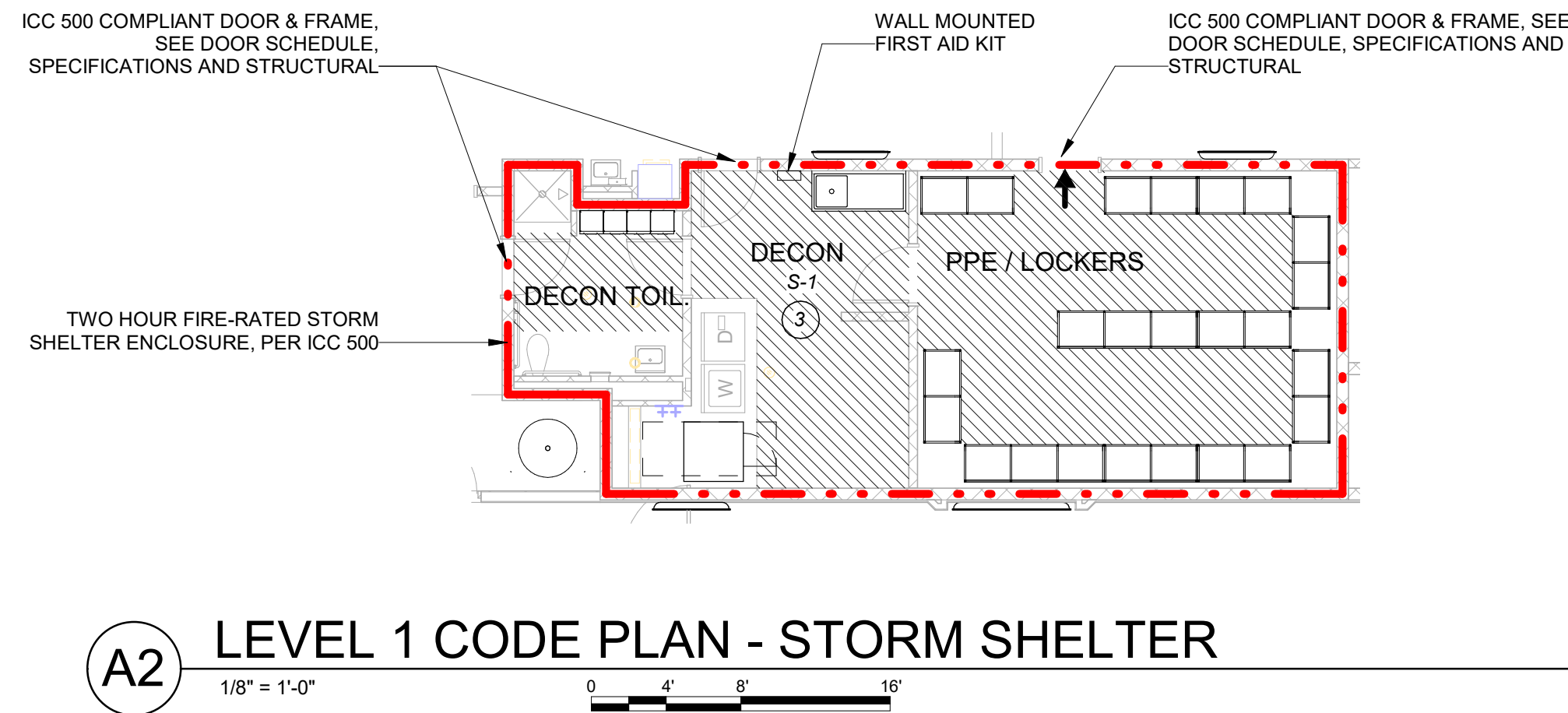
E

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.

IS106.2.1 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 _z):	1.0
DIRECTIONALITY FACTOR (K _d):	1.0
DESIGN WIND PRESSURE FOR THE SPECIFICATION OF COMPONENTS AND CLADDING OF THE STORM SHELTER ENVELOPE	SEE STRUCTURAL SHEET S-001
SITING:	
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:

- The design occupant capacity.
- The storm type.
- The design wind speed.
- The edition of the ICC 500 used for the design.
- The name of the manufacturer or builder of the storm shelter.

508.5 DIRECTIONAL SIGNAGE WITHIN A HOST BUILDING

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

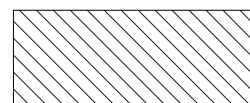
508.6 ENTRY SIGNAGE

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

508.7 PERIMETER SIGNAGE

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

STORM SHELTER LEGEND



USABLE FLOOR AREA



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



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MECH., ELECT. & PLUMB. ENGINEERS

HSSS & BROWN ENGINEERS
MISSOURI COA #01022
15902 MIDLAND DRIVE
SHAWNEE, KS 66217
(913) 362-9090

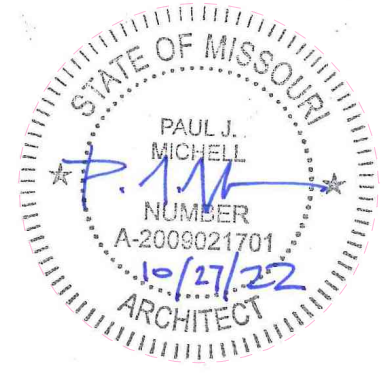
SECURITY & IT ENGINEERS

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**
100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

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



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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PROJECT NO: 18225R21001

DATE: 10.27.2022

DRAWN BY: JSP

CHK'D BY: PJM

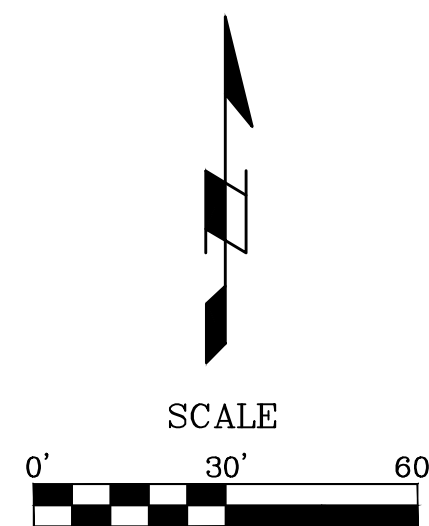
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**STORM SHELTER
CODE SUMMARY**

G-004

PLEASE CONSIDER THE ENVIRONMENT
BEFORE PRINTING THIS

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



LEGEND

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

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

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

UTILITY NOTE:

The utilities on this survey are shown based on source information from plans and markings and were combined with observed evidence of utilities pursuant to Section 5.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.

GENERAL SURVEY NOTES:

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

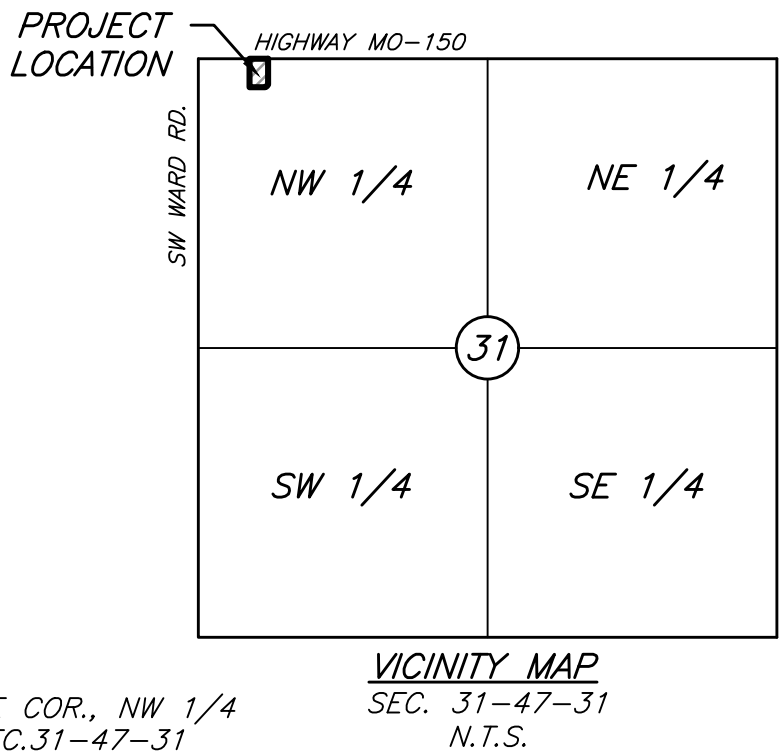
SURVEY CONTROL POINTS

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

BENCHMARKS:

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

ELEVATION = 993.44



TITLE DESCRIPTION:

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

SCHEDULE B - PART II NOTES:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

08-04-21

08-12-21

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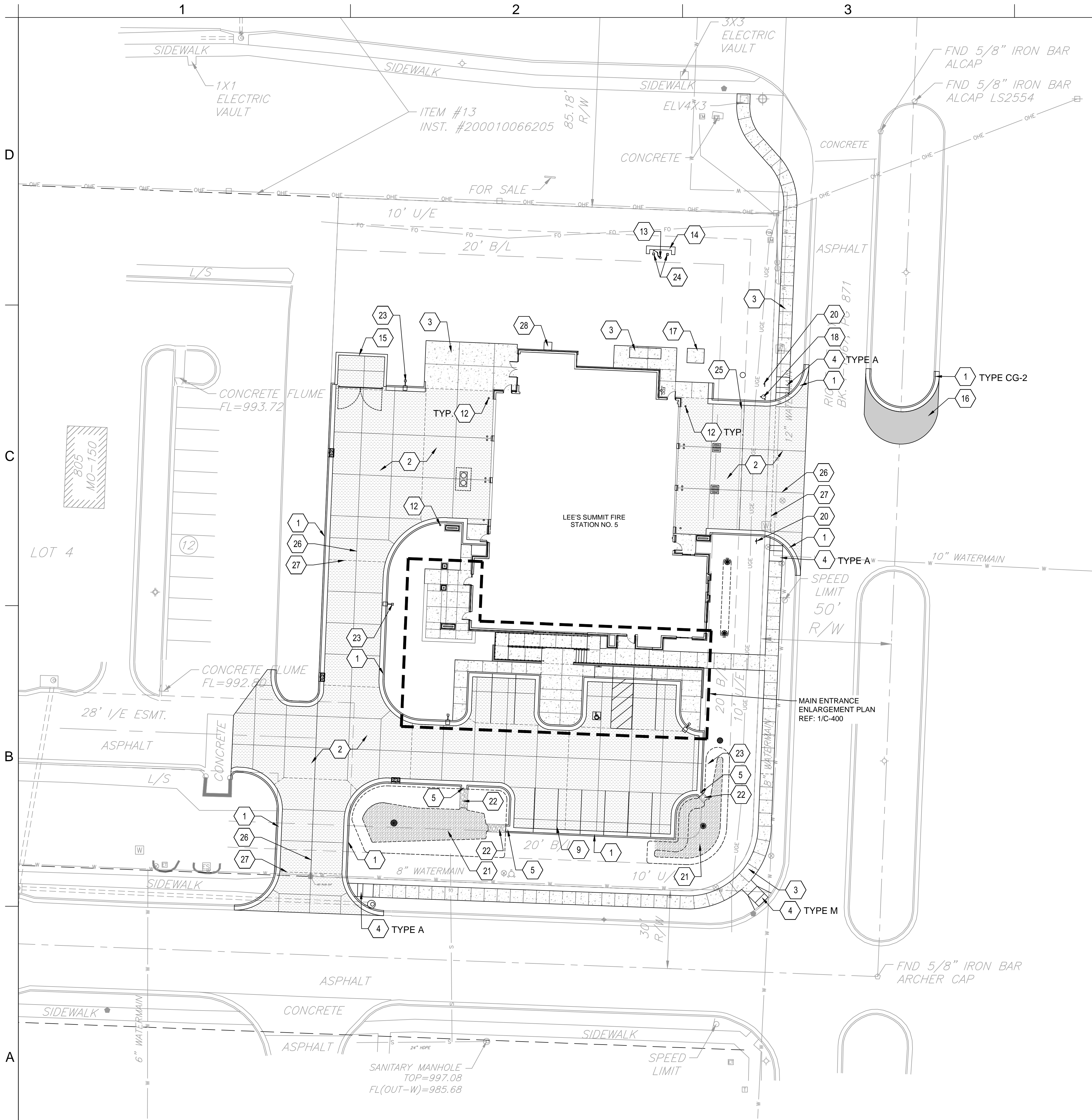
REVISED PER COMMENTS

1

2

SHEET 1 OF 1

GS001



GENERAL SITE NOTES:

1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
3. CONTRACTOR SHALL CONTACT DIG SAFE PRIOR TO ANY EXCAVATION/DIGGING.
4. ALL EXISTING CONDITIONS, DIMENSIONS, AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST. PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES, NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
5. CONTRACTOR SHALL REPAIR ALL DISTURBED LANDSCAPING.
6. REFERENCE GRADING & DRAINAGE PLAN FOR DETAILED CURB TRANSITION POINTS.

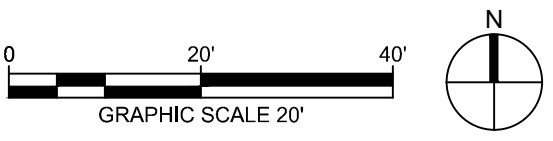
KEYNOTES

1. TYP. CURB & GUTTER
TYPE CG-1 UNLESS OTHERWISE NOTED.
LEE'S SUMMIT STANDARD DETAIL
REF: 3/C-503
2. TYP. CONCRETE PAVING
REF: 1/C-500
3. CONCRETE SIDEWALK PAVING
REF: 1/C-504
4. ADA SIDEWALK RAMP.
REF: 3/C-504
5. CURB CUT
REF: 11/C-500
6. RETAINING WALL
REF: STRUCTURAL
7. CONCRETE STEPS
REF: 4/C-502
8. ADA RAMP AND GALVANIZED HANDRAIL
REF: 2, 3, 4, 5/C-502
9. PAVEMENT STRIPING
REF: 3/C-500
10. ADA PAVEMENT MARKING
REF: 4/C-500
11. ADA PARKING SIGN
REF: 5/C-500
12. TYP. SAFETY BOLLARD
REF: 2/C-500
13. FLAG POLE
REF: 7/C-500
14. MONUMENT SIGN
REF: 8-10/C-500
15. DUMPSTER ENCLOSURE
REF: 1-6/C-501
16. ROADWAY ASPHALT PATCH
LEE'S SUMMIT STANDARD DETAIL
REF: 2/C-504
17. TRANSFORMER CONCRETE PAD
REF: MEP
18. RELOCATED FIRE HYDRANT
REF: C-220
19. SCREEN WALL
REF: ARCH
20. DO NOT ENTER SIGN
REF: 6/C-500
21. MISSOURI RIVER ROCK, 1'-1 1/2" IN SIZE.
PLACED OVER GEOTEXTILE FABRIC.
REF: 3 & 4/C-401
22. MISSOURI RIVER ROCK RIPRAP, 3'-5" IN SIZE.
PLACED OVER GEOTEXTILE FABRIC.
REF: 11/C-500
23. TYP. AREA LIGHTING
REF: ELECTRICAL
24. TYP. FLAG POLE LIGHTING
REF: ELECTRICAL
25. LIMIT OF SNOW MELT SYSTEM
REF: MEP
26. CONSTRUCTION JOINT
REF: 2/C-503
27. ISOLATION JOINT
REF: 2/C-503
28. 3' X 3' CONCRETE SPLASH BLOCK
REF: 1/C-504

LEGEND

- TYP. CURB & GUTTER
- TYP. CONCRETE PAVING
- ASPHALT PATCH
- CONCRETE SIDEWALK
- MISSOURI RIVER ROCK
- RETAINING WALL

1 SITE PLAN
1" = 20'-0"



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

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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DERICK HOLMES - CIVIL ENGINEER
MO# PE-2022005196
10/26/2022

The Professional Engineers and drafters of this sheet agree to hold the materials and items shown on this sheet, as well as the drawings and other documents not submitted for review, in strict confidence and to not disclose or use them in any way without the express written consent of GLMV Architecture, Inc.

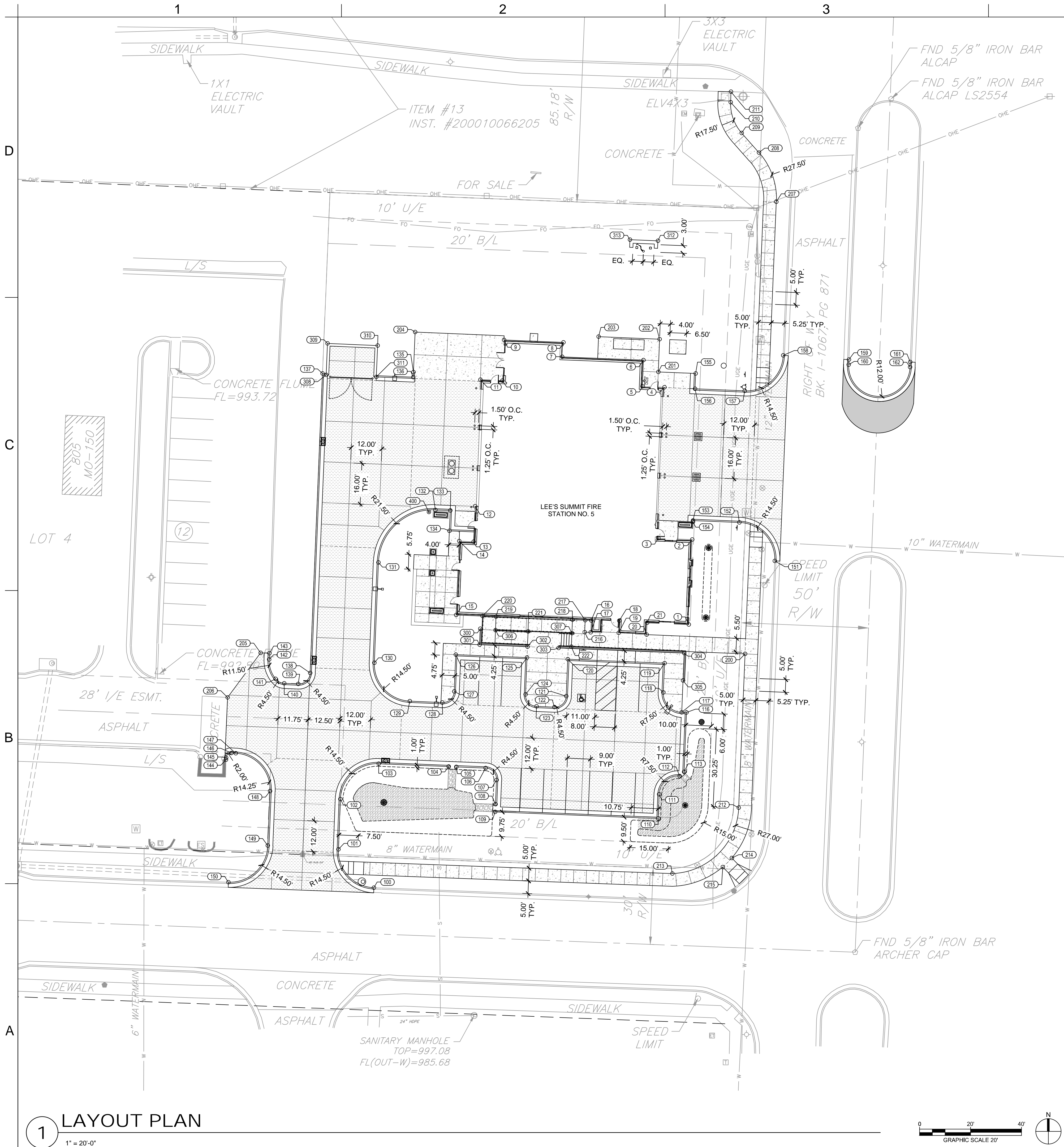
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DATE: 10.26.2022
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CHKD BY: DMH

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SITE PLAN

C-100

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LAYOUT NOTES

- 1. ALL CURB POINTS INDICATE BACK OF CURB UNLESS OTHERWISE NOTED.
- 2. SEE UTILITY PLAN FOR ALL UTILITY LOCATIONS AND LAYOUT.

LAYOUT TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
1	977961.0508	2818527.9968	BLDG
2	977994.3558	2818529.3645	BLDG
3	977994.9029	2818516.0424	BLDG
4	978054.1030	2818518.4736	BLDG
5	978054.4586	2818509.8143	BLDG
6	978064.7417	2818510.2357	BLDG
7	978066.0534	2818478.2947	BLDG
8	978071.7029	2818478.8291	BLDG
9	978072.6603	2818455.5154	BLDG
10	978056.7154	2818454.8606	BLDG
11	978057.0711	2818446.2012	BLDG
12	978007.4046	2818444.1615	BLDG
13	977993.5413	2818443.5922	BLDG
14	977993.7738	2818437.9302	BLDG
15	977964.7985	2818436.7403	BLDG
16	977962.6237	2818489.6956	BLDG
17	977957.9610	2818489.5041	BLDG
18	977962.5471	2818500.7018	BLDG
19	977957.7594	2818500.5051	BLDG
20	977957.0583	2818511.4856	BLDG
21	977961.7210	2818511.6771	BLDG
100	977857.8114	2818404.4309	CURB
101	977872.8579	2818390.5043	CURB
102	977892.5228	2818391.2609	CURB
103	977906.4532	2818406.3451	CURB
104	977905.3279	2818433.7559	CURB
105	977905.2049	2818436.7534	CURB
106	977904.7332	2818448.2432	CURB
107	977900.0523	2818452.5548	CURB
108	977890.5603	2818452.1650	CURB
109	977887.5629	2818452.0419	CURB
110	977884.9368	2818515.9880	CURB
111	977894.4288	2818516.3778	CURB
112	977901.6058	2818524.3953	CURB
113	977903.2415	2818526.1710	CURB
116	977926.5147	2818527.1267	CURB
117	977926.5937	2818525.2050	CURB
118	977934.3951	2818518.0191	CURB
119	977945.8854	2818518.4910	CURB
120	977947.4446	2818480.5230	CURB
121	977932.9569	2818479.9280	CURB
122	977928.6453	2818475.2471	CURB
123	977928.9325	2818468.2530	CURB
124	977933.6134	2818463.9415	CURB
125	977948.1012	2818464.5365	CURB
126	977949.2501	2818436.5600	CURB
127	977934.7623	2818435.9651	CURB
128	977930.4507	2818431.2842	CURB
129	977930.9750	2818418.5014	CURB
130	977946.0563	2818404.6086	CURB
131	977985.3941	2818406.2199	CURB
132	978005.9963	2818428.5798	CURB
133	978005.7578	2818434.4152	CURB
134	977997.7681	2818434.0887	CURB
135	978060.0648	2818419.9688	CURB
136	978058.0664	2818419.8867	CURB
137	978059.5293	2818384.2588	CURB
138	977942.0584	2818379.4156	CURB
139	977937.7481	2818374.7335	CURB
140	977937.9760	2818369.2236	CURB
141	977939.7570	2818365.8193	CURB
142	977947.3249	2818363.3264	CURB
143	977949.8057	2818363.4146	CURB
144	977908.0055	2818346.3667	CURB
145	977908.7720	2818346.4110	CURB
146	977910.6535	2818348.5228	CURB
147	977910.5543	2818350.2429	CURB

LAYOUT TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
148	977895.7090	2818363.6726	CURB
149	977874.3278	2818362.7921	CURB
150	977859.9520	2818347.3463	CURB
151	977985.9905	2818561.7588	CURB
152	978001.0741	2818547.8782	CURB
153	978001.8385	2818529.6722	CURB
154	978001.3499	2818529.6518	CURB
155	978059.5199	2818530.7136	CURB
156	978053.5172	2818530.4621	CURB
157	978052.6995	2818549.9744	CURB
158	978066.5984	2818565.0696	CURB
159	978064.9792	2818590.8405	CURB
160	978062.9815	2818590.7572	CURB
161	978063.9999	2818614.9252	CURB
162	978062.0135	2818614.8424	CURB
200	977949.5112	2818550.0897	PAVE
201	978060.1225	2818516.0497	PAVE
202	978072.9884	2818516.5781	PAVE
203	978073.9732	2818492.5983	PAVE
204	978075.7618	2818420.6133	PAVE
205	977949.9284	2818359.9668	PAVE
206	977932.4304	2818347.0272	PAVE
207	978126.8807	2818562.3780	PAVE
208	978146.1608	2818555.5595	PAVE
209	978153.8724	2818548.7836	PAVE
210	978165.8776	2818544.4357	PAVE
211	978170.0400	2818544.5438	PAVE
212	977889.2129	2818547.6134	PAVE
213	977863.3360	2818521.5435	PAVE
214	977869.4400	2818544.8847	PAVE
215	977865.9177	2818541.3361	PAVE
216	977958.0571	2818487.1638	PAVE
217	977962.7199	2818487.3552	PAVE
218	977962.9161	2818482.3591	PAVE
219	977964.1560	2818452.3847	PAVE
220	977964.3751	2818447.0505	PAVE
221	977958.3239	2818464.9486	PAVE
222	977952.3103	2818481.9326	PAVE
300	977959.3831	2818446.1832	WALL
301	977953.1180	2818445.9361	WALL
302	977952.3469	2818464.7108	WALL
303	977951.8460	2818476.9093	WALL
304	977949.8217	2818526.2015	WALL
305	977939.0807	2818525.7604	WALL
306	977958.8485	2818452.1754	WALL
307	977957.6175	2818482.1505	WALL
308	978058.9715	2818385.7372	WALL
309	978071.2940	2818386.2453	WALL
310	978070.4837	2818405.8986	WALL
311	978058.1613	2818405.3905	WALL
312	978111.5826	2818515.8967	WALL
313	978112.0038	2818504.9051	WALL
400	978005.1651	2818426.0425	BOLLARD

LEGEND

- TYP. CURB & GUTTER
- TYP. CONCRETE PAVING
- ASPHALT PATCH
- CONCRETE SIDEWALK
- MISSOURI RIVER ROCK
- RETAINING WALL



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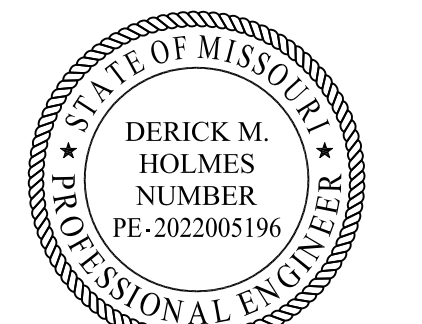
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FIRE STATION #5
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

REVISIONS:
Description Date



DERICK HOLMES - CIVIL ENGINEER
MO# PE-2022005196

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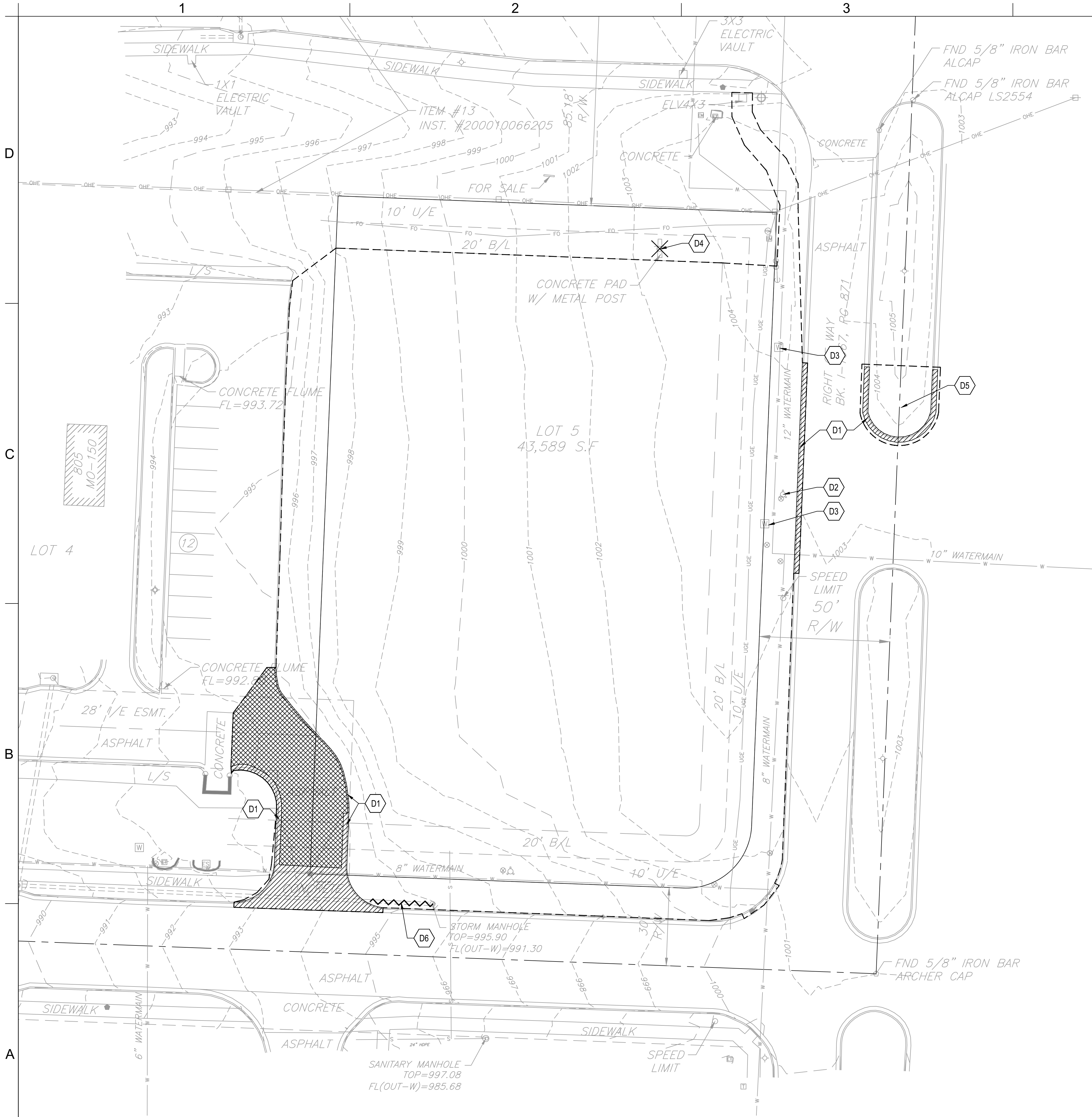
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LAYOUT PLAN

C-101

PLEASE CONSIDER THE ENVIRONMENT
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1 DEMOLITION PLAN
1" = 20'-0"

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, UNDERGROUND STORAGE TANKS, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
4. EXISTING PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING WORK TO BE PERFORMED AND REMOVAL OF ALL SERVICE LINES. CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY AS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ROAD RIGHT-OF-WAY DURING CONSTRUCTION.
6. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BMP'S) AS APPROVED BY OWNER, AUTHORITY HAVING JURISDICTION, AND CONSTRUCTION MANAGER.
7. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
8. PRIOR TO ANY DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES MUST BE INSTALLED.
9. ALL DISTURBED FEATURES SHALL BE RESTORED OR RELOCATED AS REQUIRED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL REPAIR/REPLACE ANY SURROUNDING FEATURES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
11. CONTRACTOR TO CLEAR SITE TO EXTENTS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
12. CONTRACTOR SHALL REMOVE ALL TREES AND SHRUBS WITHIN PROPERTY BOUNDARY LIMITS NOT INDICATED AS PROTECTED OR TO REMAIN.

KEYNOTES

- D1 REMOVE CURB & GUTTER
- D2 RELOCATE FIRE HYDRANT
REF: C-220
- D3 ADJUST WATER VALVE
TO PROPOSED GRADE
- D4 REMOVE SIGN POST AND FOUNDATION.
CAP AND ABANDON ALL ELECTRICAL IN PLACE
- D5 MOVE BOULDERS AND LANDSCAPE TO BE
EQUIDISTANT FROM CURB AS EXISTING CONDITION
- D6 REMOVE STORMWATER PIPE, REMOVE AND RELOCATE
STORM STRUCTURE, REF: C-104

LEGEND

- PAVEMENT TO BE REMOVED
- ASPHALT PAVEMENT TO BE REMOVED
- SITE FEATURE TO BE REMOVED
- APPROXIMATE LIMITS OF DISTURBANCE

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#	Description	Date
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NUMBER
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10/26/2022
DERICK HOLMES - CIVIL ENGINEER
MD# PE-2022005196

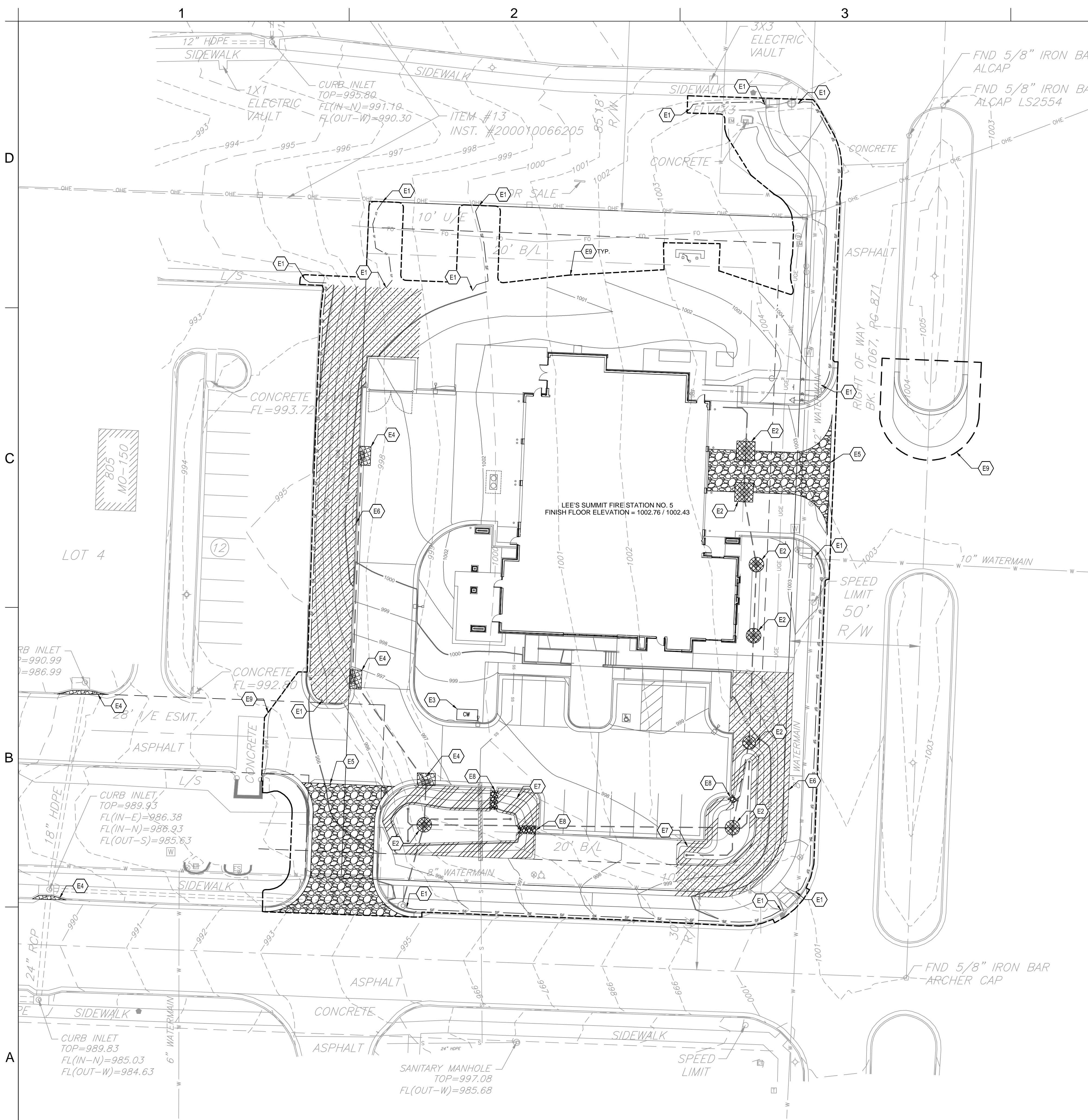
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DATE:	10.26.2022
DRAWN BY:	KDW
CHKD BY:	DMH

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**DEMOLITION
PLAN**

C-102



GENERAL EROSION AND SEDIMENT CONTROL NOTES:

THIS SHEET OUTLINES MINIMUM STORMWATER PRACTICES TO BE FOLLOWED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREVENTION OF SOIL OR SEDIMENT LOSS FROM THE CONSTRUCTION SITE. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC SEDIMENT AND EROSION CONTROL SCHEDULE. THESE NOTES ARE TO BE USED AS A GUIDELINE ONLY. THE PROJECT IS NOT CONSIDERED COMPLETE UNTIL ALL PERMANENT EROSION AND SEDIMENT CONTROLS AND STORMWATER MANAGEMENT PRACTICES ARE IN PLACE TO THE SATISFACTION OF THE OWNER AND ENGINEER. ALL TEMPORARY PRACTICES MUST BE PROPERLY REMOVED.

IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS PURSUANT TO THE GENERAL NPDES PERMIT FOR CONSTRUCTION STORMWATER, A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED FOR THIS SITE. THE PLAN WAS DEVELOPED TO MINIMIZE THE EFFECTS OF SOIL EROSION AND RESULTING SEDIMENT LOSS. PREVENTION WILL BE PROVIDED THROUGH THE USE OF PROPER CONSTRUCTION TECHNIQUES. THESE TECHNIQUES WILL INCLUDE BOTH TEMPORARY AND PERMANENT MANAGEMENT PRACTICES. TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE CONSTRUCTION SITE, THE FOLLOWING STEPS SHALL BE TAKEN DURING CONSTRUCTION:

1. PRIOR TO STARTING ANY SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES AND GRAVEL CONSTRUCTION ENTRANCES.
2. THE RECOMMENDED SEQUENCE OF CONSTRUCTION ACTIVITIES AND OF THE INSTALLATION AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES IS AS FOLLOWS:
 - 2.1. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES
 - 2.2. INSTALL TEMPORARY PERIMETER SILT FENCE
 - 2.3. INSTALL TEMPORARY EXISTING CURB INLET PROTECTION
 - 2.4. CONSTRUCT SITE IMPROVEMENTS
 - 2.5. INSTALL PROTECTION FOR NEWLY INSTALLED CURB INLETS, AREA INLETS, AND JUNCTION BOXES
 - 2.6. INSTALL EROSION AND SEDIMENT CONTROL BLANKETS AND TURF REINFORCEMENT MATS
 - 2.7. SEED, FERTILIZE, AND MULCH ALL SLOPES AND DISTURBED AREAS
 - 2.8. REMOVE TEMPORARY PRACTICES, PERIMETER CONTROLS, AND PERFORM SITE CLEANUP.
3. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE KANSAS CITY METRO CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION. INSTALL SILT FENCE AT INDICATED LOCATIONS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION. SILT FENCE SHALL BE KEPT IN PLACE UNTIL THE PROJECT IS STABILIZED.
4. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS AND PAVED STREETS. THIS MAY INCLUDE PERIODIC TOP DRESSING WITH ADDITIONAL CRUSHED STONE AS CONDITIONS WARRANT. REPAIR OF ENTRANCE(S) AND CLEANING OF RIGHT-OF-WAYS AND PAVED STREETS THAT HAVE BEEN SOILED BY CONSTRUCTION ACTIVITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
5. DURING ALL SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE THE TIME OF EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL. PARTICULAR CARE MUST BE EXERCISED WHEN DEALING WITH STOCKPILES OF TOPSOIL OR FILL MATERIALS AND WITH SOIL ON SLOPES.
6. SOIL STOCKPILED FOR MORE THAN 7 DAYS WILL HAVE SILT FENCE PLACED ON THE DOWNHILL SIDE TO TRAP SEDIMENT.
7. NO GROUND SHALL BE LEFT DISTURBED FOR MORE THAN 14 DAYS OF NON-ACTIVITY WITHOUT BEING TEMPORARILY MULCHED AND/OR SEEDED.
8. EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR NOT LESS THAN WEEKLY AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO SEDIMENT REMOVAL AND SILT FENCE REPAIR AND/OR REPLACEMENT.
9. WHENEVER DIRT, ROCK, OR OTHER MATERIALS ARE EXPORTED FOR PLACEMENT IN AREAS OFF THE PRIMARY CONSTRUCTION SITE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT ALL JURISDICTIONAL AUTHORITY REQUIREMENTS ARE MET. PRIOR TO THE REMOVAL OF ANY MATERIALS FROM THE SITE THE CONTRACTOR WILL FURNISH THE ENGINEER WITH A WRITTEN AGREEMENT, SIGNED BY EACH LANDOWNER WHO WILL RECEIVE EXPORTED MATERIALS, STATING THAT THE RECEIVING SITE WILL BE PROPERLY PERMITTED, WHEN REQUIRED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND EXPENSES OF PROVIDING EROSION AND SEDIMENT CONTROL MEASURES.
11. CONTRACTOR SHALL KEEP A WRITTEN LOG OF WHEN CONSTRUCTION ACTIVITIES BEGIN, EROSION AND SEDIMENT CONTROLS ARE INSTALLED, INSPECTED, AND REPAIRED. COPIES OF LOG SHALL BE FURNISHED TO THE ENGINEER.
12. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED UPON STABILIZATION OF DISTURBED AREAS.

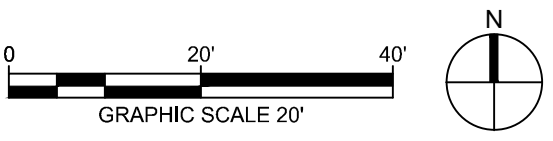
EROSION CONTROL KEYNOTES

- E1 SILT FENCE
REF: 3 / C-510
- E2 AREA INLET AND JUNCTION BOX PROTECTION
REF: 1 / C-511
- E3 CONCRETE WASHOUT
REF: 1 / C-510
- E4 CURB INLET PROTECTION
REF: 4 / C-510
- E5 CONSTRUCTION ENTRANCE
REF: 1 / C-510
- E6 TEMPORARY EROSION CONTROL BLANKET
REF: 2 / C-510
- E7 PERMANENT TURF REINFORCEMENT MAT
REF: 2 / C-510
- E8 RIPRAP
REF: C-100
- E9 LIMITS OF DISTURBANCE

LEGEND

- LIMITS OF DISTURBANCE
- SF --- SILT FENCE
- [Grid Pattern] AREA INLET PROTECTION
- [CW] CONCRETE WASHOUT
- [Hatched] CURB INLET PROTECTION
- [Cross-hatched] CONSTRUCTION ENTRANCE
- [Diagonal Lines] TEMPORARY EROSION CONTROL BLANKET
- [Stippled] PERMANENT TURF REINFORCEMENT MAT
- [Riprap Pattern] RIPRAP

EROSION CONTROL PLAN



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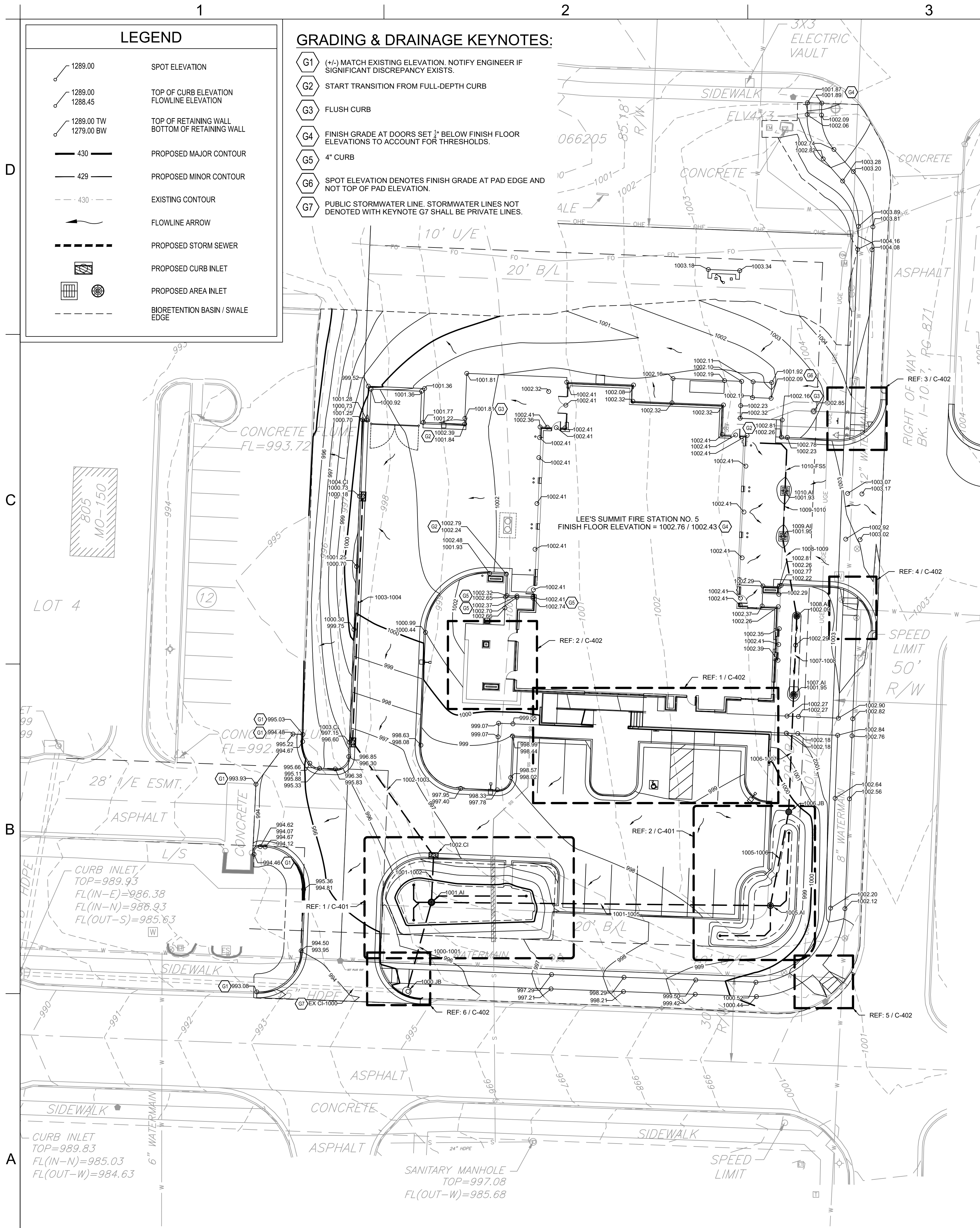
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EROSION CONTROL PLAN

C-103

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS



1 GRADING & DRAINAGE PLAN

GENERAL GRADING & DRAINAGE NOTES:

1. SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AS REFERENCED IN THIS PLAN SHEET. THE CONTRACTOR MUST FOLLOW THE REQUIREMENTS OF ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS, WHICH HAVE JURISDICTION OVER THIS PROJECT.
2. ALL PROPOSED CONTOUR LINES AND SPOT ELEVATIONS SHOWN ARE FINISH GROUND ELEVATIONS. CONTRACTOR SHALL ACCOUNT FOR PAVEMENT DEPTHS, BUILDING PADS, LOW VOLUME CHANGE MATERIAL, TOPSOIL, ETC. WHEN GRADING THE SITE.
3. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED (GREEN SPACES) SHALL BE FINISH GRADED WITH A MINIMUM OF SIX INCHES OF TOPSOIL.
4. ALL EXCAVATIONS AND EMBANKMENTS SHALL COMPLY WITH THE RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER.
5. FINISHED GRADES SHALL NOT BE STEEPER THAN 3:1, UNLESS NOTED OTHERWISE ON THE PLANS.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS OF CONNECTION POINTS AS SHOWN ON GRADING PLANS. NOTIFY ENGINEER IF DISCREPANCY EXISTS FOR DIRECTION.
7. ALL GRADES SHALL BE CONTOURED SMOOTHLY WITH GENTLE ROUNDING/SHAPING OF ALL AFFECTED LAND SURFACES. ABRUPT TRANSITIONS AT THE TOP OF SLOPES WHERE PROPOSED GRADES MEET EXISTING ARE NOT ACCEPTABLE. GRADING SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE ADDITION OF THE TOPSOIL LAYER.
8. SEE DRAWINGS C-230 AND C-231 FOR STORMWATER PROFILE DRAWINGS.

ADA NOTES:

1. ALL ACCESSIBLE (A.K.A. ADA) COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF: (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.); AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS TO BOTH, WHICH ARE IN EFFECT WHEN THESE PLANS WERE COMPLETED.
2. THE CONTRACTOR MUST REVIEW ALL DOCUMENTS REFERENCED IN THESE NOTES FOR ACCURACY, COMPLIANCE, AND CONSISTENCY WITH INDUSTRY GUIDELINES.
3. THE CONTRACTOR MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ACCESSIBLE (ADA) COMPONENTS AND ACCESSIBLE ROUTES FOR THE SITE. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACES, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, AND INTER-BUILDING ACCESS TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT MUST COMPLY WITH THE ACCESSIBLE GUIDELINES AND REQUIREMENTS WHICH INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - 3.1. ACCESSIBLE PARKING SPACES AND ACCESS AISLE SLOPES MUST NOT EXCEED 1:50 (2.0%) IN ANY DIRECTION.
 - 3.2. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE MUST PROVIDE A 48-INCHES MINIMUM WIDTH. UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS) MUST NOT REDUCE THIS MINIMUM WIDTH. THE SLOPE MUST NOT EXCEED 1:20 (5.0%) IN THE DIRECTION OF TRAVEL AND MUST NOT EXCEED 1:50 (2.0%) IN CROSS SLOPE. WHERE ACCESSIBLE PATH OF TRAVEL IS GREATER THAN 1:20 (5.0%), AN ACCESSIBLE RAMP MUST BE PROVIDED. ALONG THE ACCESSIBLE PATH OF TRAVEL, OPENINGS MUST NOT EXCEED 12-INCH IN WIDTH. VERTICAL CHANGES OF UP TO 1/2-INCH ARE PERMITTED ONLY IF THEY INCLUDE A 1/4-INCH BEVEL AT A SLOPE NOT STEEPER THAN 1:2. NO VERTICAL CHANGES OVER 1/4-INCH ARE PERMITTED.
 - 3.3. ACCESSIBLE RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.3%) AND A RISE OF 30-INCHES. LEVEL LANDINGS MUST BE PROVIDED AT EACH END OF ACCESSIBLE RAMPS. LANDING MUST PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES, AND MUST NOT EXCEED 1:50 (2.0%) SLOPE IN ANY DIRECTION. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS MUST HAVE A CLEAR LANDING OF A MINIMUM OF 60-INCHES BY 60-INCHES. HANDRAILS ON BOTH SIDES OF THE RAMP MUST BE PROVIDED ON AN ACCESSIBLE RAMP WITH A RISE GREATER THAN 6-INCHES.
 - 3.4. ACCESSIBLE CURB RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.3%). WHERE FLARED SIDES ARE PROVIDED, THEY MUST NOT EXCEED 1:10 (10%) SLOPE. LEVEL LANDINGS MUST BE PROVIDED AT RAMPS TOP AT A MINIMUM OF 36-INCHES LONG (48-INCHES PREFERRED). IN ALTERATIONS, WHEN THERE IS NO LANDING AT THE TOP, FLARE SIDES SLOPES MUST NOT EXCEED A SLOPE OF 1:12 (8.3%).
 - 3.5. DOORWAY LANDING AREAS MUST BE PROVIDED ON THE EXTERIOR SIDE OF ANY DOOR LEADING TO AN ACCESSIBLE PATH OF TRAVEL. THIS LANDING MUST BE SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA MUST BE NO FEWER THAN 60-INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE CLEARLY PERMITTED BY ACCESSIBLE STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2009 AND OTHER REFERENCES INCORPORATED BY CODE).
 - 3.6. WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ACCESSIBLE COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, THE CONTRACTOR MUST VERIFY ALL EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES IN RARE CIRCUMSTANCES. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR IN ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS BEFORE COMMENCING. ANY CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ACCESSIBLE GUIDELINES.
 - 3.7. THE CONTRACTOR MUST VERIFY ALL OF THE SLOPES OF THE CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE EXISTS OR IS OBSERVED OR DISCOVERED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, PRIOR TO POURING CONCRETE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND/OR REPLACE NON-CONFORMING CONCRETE AND/OR PAVEMENT SURFACES.
4. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION TO ENSURE SAME IS CONSISTENT WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCING CONSTRUCTION.

STORMWATER STRUCTURE TABLE					
STRUCTURE NAME	GRATE / RIM ELEVATION	PIPES IN	PIPES OUT	CL NORTHING & EASTING	NOTES
1000.JB	995.28	1000-1001, 12" INV IN = 990.90	EX CI-1000, 15" INV OUT = 990.60	N: 977860.16 E: 2818399.70	EXISTING MANHOLE, SEE NOTE 1
1001.AI	995.50	1001-1005, 12" INV IN = 991.71 1001-1002, 12" INV IN = 991.71 BIO UNDERDRAIN 1.1, 6" INV IN = 992.00 BIO UNDERDRAIN 1.2, 6" INV IN = 992.00	1000-1001, 12" INV OUT = 991.21	N: 977891.22 E: 2818408.30	30" AREA INLET W/ DOME GRATE, SEE NOTE 2 REF: C-401; 1 / C-530, 5 / C-531 & 1-2 / C-532
1002.CI	996.63	1002-1003, 12" INV IN = 992.06	1001-1002, 12" INV OUT = 991.86	N: 977907.48 E: 2818409.02	2'X3" CURB INLET REF: 1 / C-530 & 1-2 / C-531
1003.CI	996.60	1003-1004, 12" INV IN = 992.73	1002-1003, 12" INV OUT = 992.53	N: 977947.03 E: 2818380.76	2'X3" CURB INLET REF: 1 / C-530 & 1-2 / C-531
1004.CI	1000.18		1003-1004, 12" INV OUT = 998.00	N: 978032.84 E: 2818384.29	2'X3" CURB INLET REF: 1 / C-530 & 1-2 / C-531
1005.AI	997.86	1005-1006, 12" INV IN = 993.66 BIO UNDERDRAIN 2.1, 6" INV IN = 994.03 BIO UNDERDRAIN 2.2, 6" INV IN = 994.03	1001-1005, 12" INV OUT = 993.16	N: 977890.08 E: 2818526.60	24" AREA INLET W/ DOME GRATE, SEE NOTE 2 REF: C-401; 1 / C-530 & 2, 3, 5 / C-531
1006.JB	999.40	1006-1007, 12" INV IN = 994.21	1005-1006, 12" INV OUT = 994.01	N: 977922.79 E: 2818532.99	24" DRAIN BASIN W/ SOLID COVER REF: 1 / C-530 & 2, 4, & 5 / C-531
1007.AI	1001.95	1007-1008, 12" INV IN = 995.19	1006-1007, 12" INV OUT = 994.99	N: 977963.78 E: 2818534.70	24" AREA INLET W/ DOME GRATE REF: 1 / C-530 & 2, 3, & 5 / C-531
1008.AI	1002.09	1008-1009, 12" INV IN = 995.90	1007-1008, 12" INV OUT = 995.70	N: 977991.06 E: 2818535.81	24" AREA INLET W/ DOME GRATE REF: 1 / C-530 & 2, 3, & 5 / C-531
1009.AI	1001.95	1009-1010, 12" INV IN = 996.62	1008-1009, 12" INV OUT = 996.42	N: 978018.84 E: 2818531.05	STANDARD DOUBLE GRATE INLET REF: 2 / C-530
1010.AI	1001.93	1010-FS5, 6" INV IN = 997.09	1009-1010, 12" INV OUT = 996.89	N: 978034.78 E: 2818531.72	STANDARD DOUBLE GRATE INLET REF: 2 / C-530
EX CI	989.93	EX CI-1000, 15" INV IN = 986.38		N: 977866.28 E: 2818263.15	EXISTING CURB INLET, SEE NOTE 3 REF: 3-4 / C-530

STORMWATER PIPE TABLE	
NAME	PIPE DESCRIPTION
BIO UNDERDRAIN 2.2	28.85 L.F. OF PERFORATED 6" PVC @ 0.5%
BIO UNDERDRAIN 2.1	25.92 L.F. OF PERFORATED 6" PVC @ 0.5%
BIO UNDERDRAIN 1.2	17.72 L.F. OF PERFORATED 6" PVC @ 0.5%
BIO UNDERDRAIN 1.1	32.74 L.F. OF PERFORATED 6" PVC @ 0.5%
EX CI-1000	133.81 LF OF 15" HDPE @ 3.16%
1000-1001	31.21 LF OF 12" HDPP @ 1.00%
1001-1002	14.52 LF OF 12" HDPP @ 1.00%
1001-1005	116.32 LF OF 12" HDPP @ 1.25%
1002-1003	47.13 LF OF 12" HDPP @ 1.00%
1003-1004	84.45 LF OF 12" HDPP @ 3.88%
1005-1006	31.33 LF OF 12" HDPP @ 1.12%
1006-1007	39.03 LF OF 12" HDPP @ 2.00%
1007-1008	25.31 LF OF 12" HDPP @ 2.00%
1008-1009	26.08 LF OF 12" HDPP @ 2.00%
1009-1010	13.70 LF OF 12" HDPP @ 2.00%
1010-FS5	23.28 LF OF 6" HDPE @ 1.13%

- NOTES
1. CONTRACTOR TO REUSE EXISTING MANHOLE, IF POSSIBLE. SEE C-102. GROUT AND REPAIR EXISTING PIPE PENETRATIONS NO LONGER NECESSARY PER CITY OF LEE'S SUMMIT, MO STANDARDS. NOTIFY ENGINEER IF STRUCTURE IS UNABLE TO BE REUSED. EXISTING INVERT ELEVATION NOT ASSUMED BASED ON LINEAR INTERPOLATION. CONTRACTOR TO FIELD VERIFY AND CONTACT ENGINEER IF DISCREPANCY EXISTS.
 2. BIORETENTION BASIN OUTLET CONTROL STRUCTURE. SEE C-401.
 3. THIS STRUCTURE HAS ADDITIONAL EXISTING PIPES NOT SHOWN IN THIS STRUCTURE TABLE.

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100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date

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MOR# PE-2022005196
10/26/2022

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MOR# PE-2022005196

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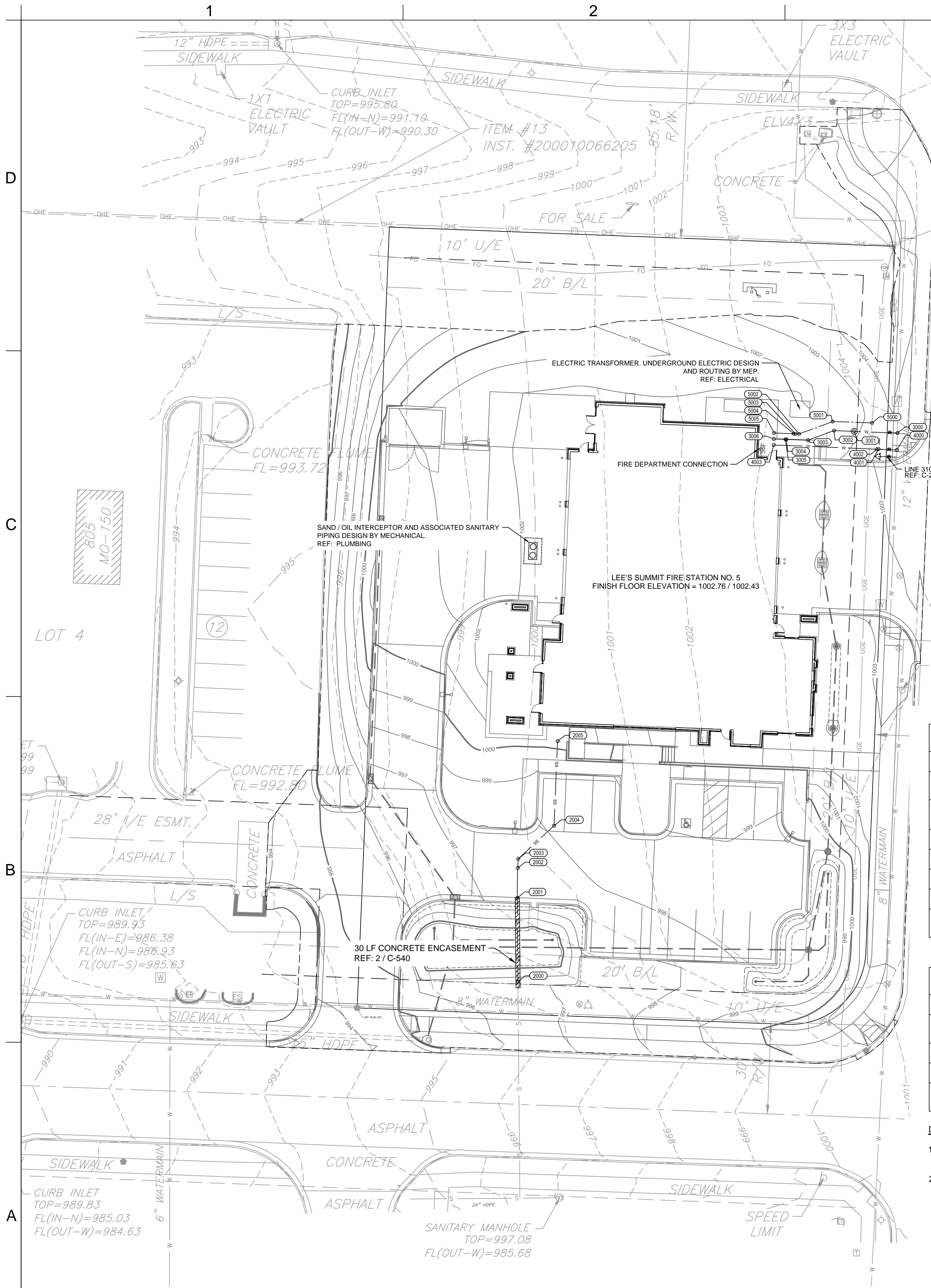
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GRADING & DRAINAGE PLAN

C-104

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DOMESTIC WATER INFORMATION				
POINT #	NORTHING	EASTING	SIZE & MATERIAL MIN. TOP OF PIPE NOTES	
3000	978062.00	2818556.14	2" SOFT TYPE "K" COPPER SERVICE LINE 1000.94 CONNECT TO EXISTING 12" WATER MAIN AND INSTALL ISOLATION VALVE.	
3001	978062.55	2818541.72	2" SOFT TYPE "K" COPPER SERVICE LINE 999.85 DOMESTIC WATER SERVICE CONNECTION WITH METER WELL ; REF: 1 / C-521	
3002	978062.80	2818535.06	2" SOFT TYPE "K" COPPER SERVICE LINE 999.39 22.5 DEG ELBOW	
3003	978059.60	2818526.39	2" SOFT TYPE "K" COPPER SERVICE LINE 999.21 22.5 DEG ELBOW	
3004	978059.87	2818519.19	2" SOFT TYPE "K" COPPER SERVICE LINE 999.29 FIELD BEND	
3005	978059.88	2818518.90	2" SOFT TYPE "K" COPPER SERVICE LINE 999.29 FIELD BEND	
3006	978060.04	2818515.05	2" SOFT TYPE "K" COPPER SERVICE LINE 999.34 UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION.	

FIRE PROTECTION INFORMATION				
POINT #	NORTHING	EASTING	SIZE & MATERIAL MIN. TOP OF PIPE NOTES	
4000	978056.38	2818555.93	6" PVC 1000.54 CONNECT TO EXISTING 12" WATER MAIN & INSTALL ISOLATION VALVE.	
4001	978056.61	2818549.82	6" PVC 1000.54 FIELD BEND	
4002	978056.64	2818549.24	6" PVC 1000.54 FIELD BEND	
4003	978058.04	2818514.97	6" PVC 999.37 UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION.	

- DOMESTIC WATER AND FIRE NOTES**
- DOMESTIC WATER AND FIRE SERVICE LINES SHALL BE INSTALLED PER CITY OF LEE'S SUMMIT STANDARD SPECIFICATIONS.
 - ALL FIRE PROTECTION PVC SHALL BE C900.

- GENERAL UTILITY NOTES:**
- UTILITY CONSTRUCTION SHALL COMPLY WITH THE STANDARD SPECIFICATIONS, CODES, AND DETAILS OF THE CITY OF LEE'S SUMMIT, MO AND UTILITY PROVIDERS.
- INSTALLATION, BEDDING, & TESTING OF UTILITY INSTALLATIONS SHALL BE AS PER CITY OF LEE'S SUMMIT, MO STANDARD SPECIFICATIONS AND STANDARD SPECIAL PROVISIONS.
 - THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION AND FOR MAKING HIS OWN VERIFICATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
 - PROTECT ALL COMPONENTS DURING DEMOLITION / CONSTRUCTION PROCESS. MAINTAIN BMP'S THROUGHOUT THE DURATION OF CONSTRUCTION.
 - STUB ALL CONNECTIONS TO WITHIN 5' OF THE BUILDING TO PROVIDE CONNECTION INTO THE BUILDING BY MECHANICAL PLUMBING CONTRACTOR.
 - CONTRACTOR TO PROVIDE DETAILED AS-BUILT DRAWINGS TO OWNER, ENGINEER, AND CITY OF LEE'S SUMMIT, MO UPON COMPLETION OF ALL UTILITIES.
 - UTILITY TRENCH BACKFILL SHALL BE PER PROJECT SPECIFICATIONS.
 - UTILITY PIPE LENGTHS ARE PROVIDED FOR INFORMATION ONLY. CONTRACTOR TO VERIFY ACTUAL LENGTHS OF PIPE REQUIRED PRIOR TO BIDDING & INSTALLING UTILITIES.
 - UTILITY CONTRACTOR TO COORDINATE BUILDING CONNECTION POINTS WITH PLUMBING PLAN AND BUILDING CONTRACTOR.
 - CONTRACTOR TO ADJUST EXISTING WATER VALVES TO PROPOSED GRADE, AS REQUIRED.
 - FIELD BEND INFORMATION IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO FOLLOW PIPE MANUFACTURER'S RECOMMENDATIONS FOR FIELD ADJUSTMENTS OF PIPE BETWEEN FITTINGS.

SANITARY SEWER INFORMATION				
POINT #	NORTHING	EASTING	SIZE & MATERIAL SLOPE DOWNSTREAM INV. EL. NOTES	
2000	977879.55	2818429.96	4" PVC N/A 989.58 CONNECTION TO EXISTING SERVICE. SEE SANITARY SEWER NOTE 2	
2001	977907.40	2818429.72	4" PVC 4.32% 990.78 FIELD BEND	
2002	977917.33	2818429.88	4" PVC 4.32% 991.21 FIELD BEND	
2003	977920.39	2818430.01	4" PVC 4.32% 991.34 45 DEG ELBOW	
2004	977931.40	2818441.95	4" PVC 13.19% 993.49 45 DEG ELBOW	
2005	977959.53	2818443.11	4" PVC 13.19% 997.20 CLEANOUT UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION	

- SANITARY SEWER NOTES**
- ALL PVC PIPE SHALL BE SDR 26.
 - APPROXIMATE LOCATION OF EXISTING SANITARY SEWER STUB (PER CITY AS-BUILTS). CONTRACTOR TO FIELD VERIFY PRIOR TO INSTALLING UPSTREAM PIPE.

GAS INFORMATION				
POINT #	NORTHING	EASTING	FINISHED GRADE NOTES	
5000	978065.39	2818547.67	1003.26 SEE GAS NOTE 2	
5001	978065.83	2818534.58	1002.30 22.5 DEG ELBOW	
5002	978061.70	2818523.44	1002.22 22.5 DEG ELBOW	
5003	978061.75	2818522.21	1002.23 FIELD BEND	
5004	978061.77	2818521.63	1002.24 FIELD BEND	
5005	978062.04	2818515.13	1002.30 UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION.	

- GAS NOTES**
- GAS LINE DESIGN AND INSTALLATION PER SERVICE PROVIDER.
 - EXISTING GAS NOT PICKED UP ON SITE SURVEY. CONTRACTOR TO COORDINATE WITH SERVICE PROVIDER FOR SERVICING SITE WITH NATURAL GAS.

UTILITY LEGEND	
G	PROPOSED GAS
SS	PROPOSED SANITARY SEWER
---	PROPOSED STORM SEWER
[Symbol]	PROPOSED CURB INLET
[Symbol]	PROPOSED STORMWATER MANHOLE
[Symbol]	PROPOSED AREA INLET
W	PROPOSED WATER
[Symbol]	PROPOSED ISOLATION VALVE
[Symbol]	PROPOSED FIRE HYDRANT
FDC	PROPOSED FIRE DEPARTMENT CONNECTION

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

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date

DERICK M. HOLMES
NUMBER
PE-2022005196
10/26/2022

DERICK HOLMES - CIVIL ENGINEER
MO# PE-2022005196

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DATE: 10.26.2022
DRAWN BY: SJB
CHKD BY: DMH

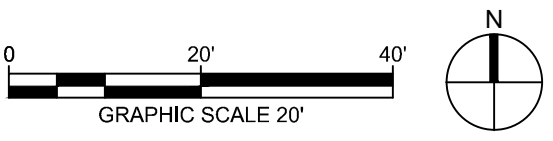
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UTILITY PLAN

C-105

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS

1 UTILITY PLAN
1" = 20'-0"



D

C

B

A

GENERAL UTILITY NOTES:

1. SEE DRAWING C-105 FOR GENERAL NOTES APPLICABLE TO THIS DRAWING.



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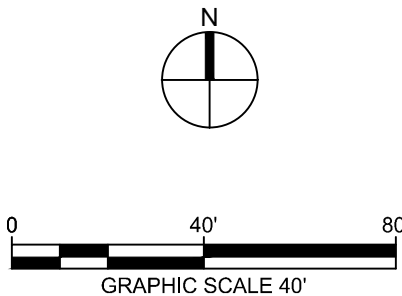
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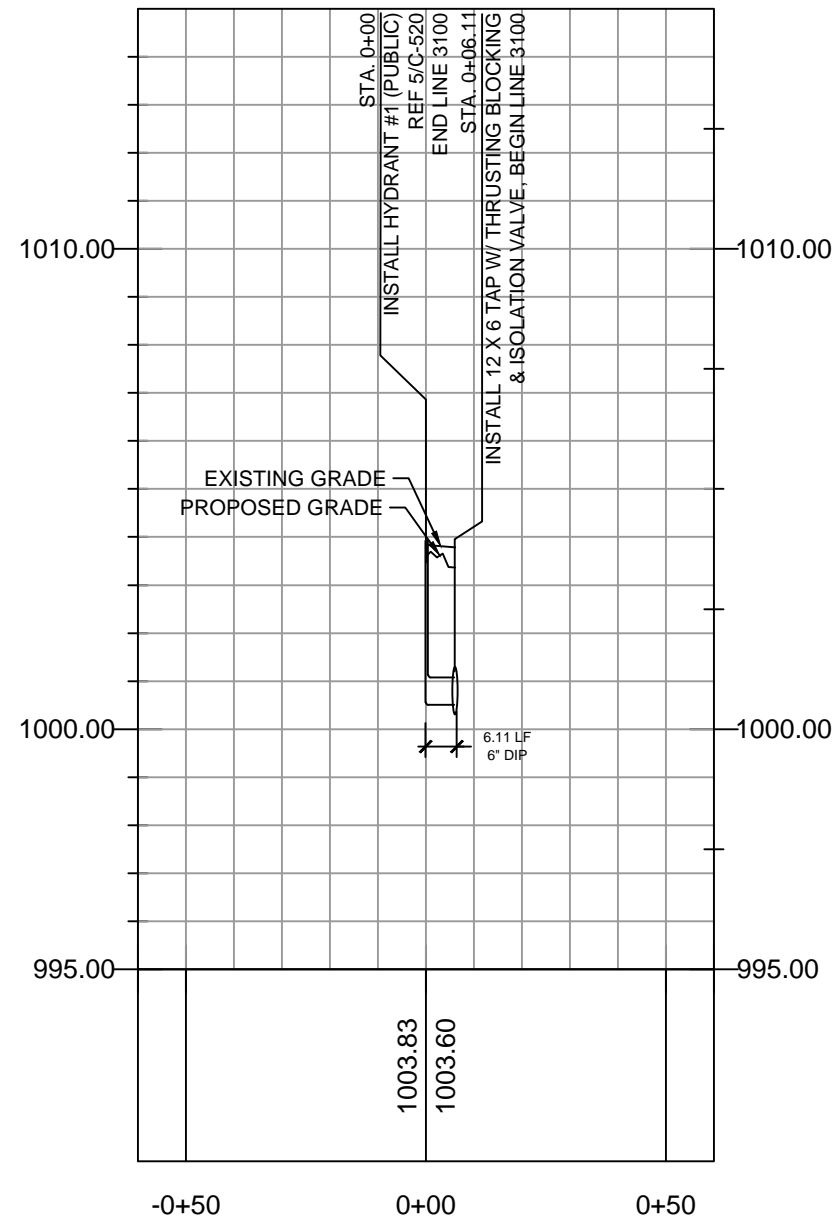
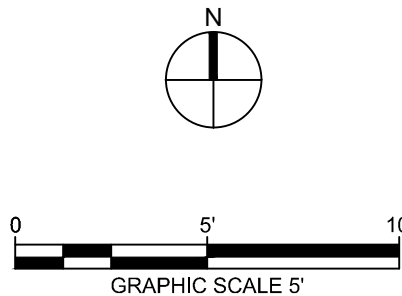
1 FIRE PROTECTION LINE PLAN VIEW

SCALE: HORIZONTAL 1"=40'



2 FIRE PROTECTION LINE PLAN VIEW ENLARGEMENT

SCALE: HORIZONTAL 1"=5'



3 FIRE PROTECTION LINE 3100 PROFILE

SCALE: HORIZONTAL 1"=40' SCALE: VERTICAL 1"=4'


FIRE STATION #5
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**PUBLIC WATER
PLAN & PROFILES**

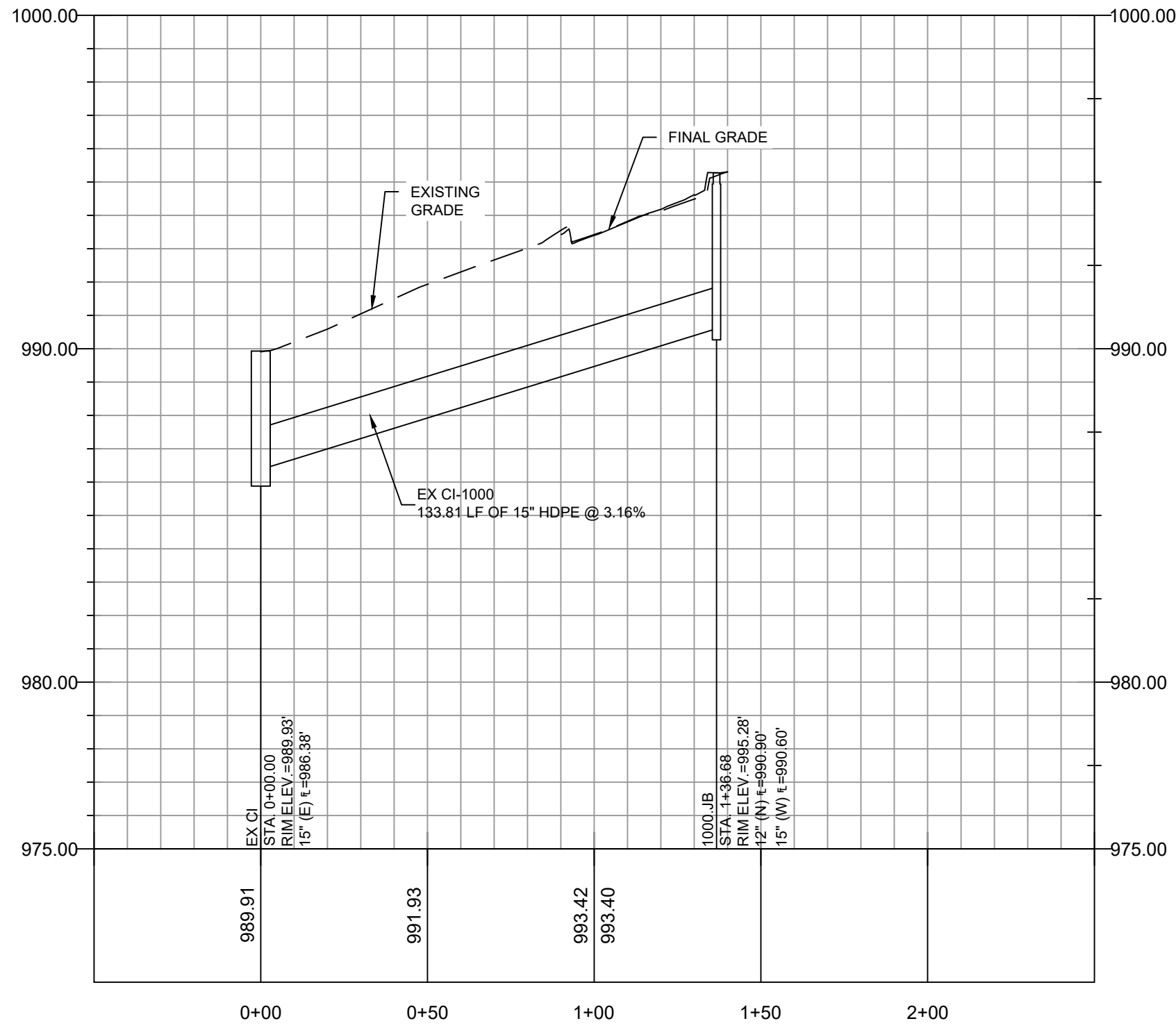
C-220

D

C

B

A



1 EX CI - 1000.JB PROFILE

SCALE: HORIZONTAL 1"=40' SCALE:VERTICAL: 1"=4'

GENERAL NOTES:

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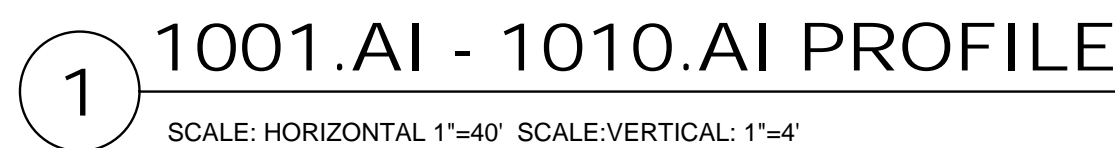
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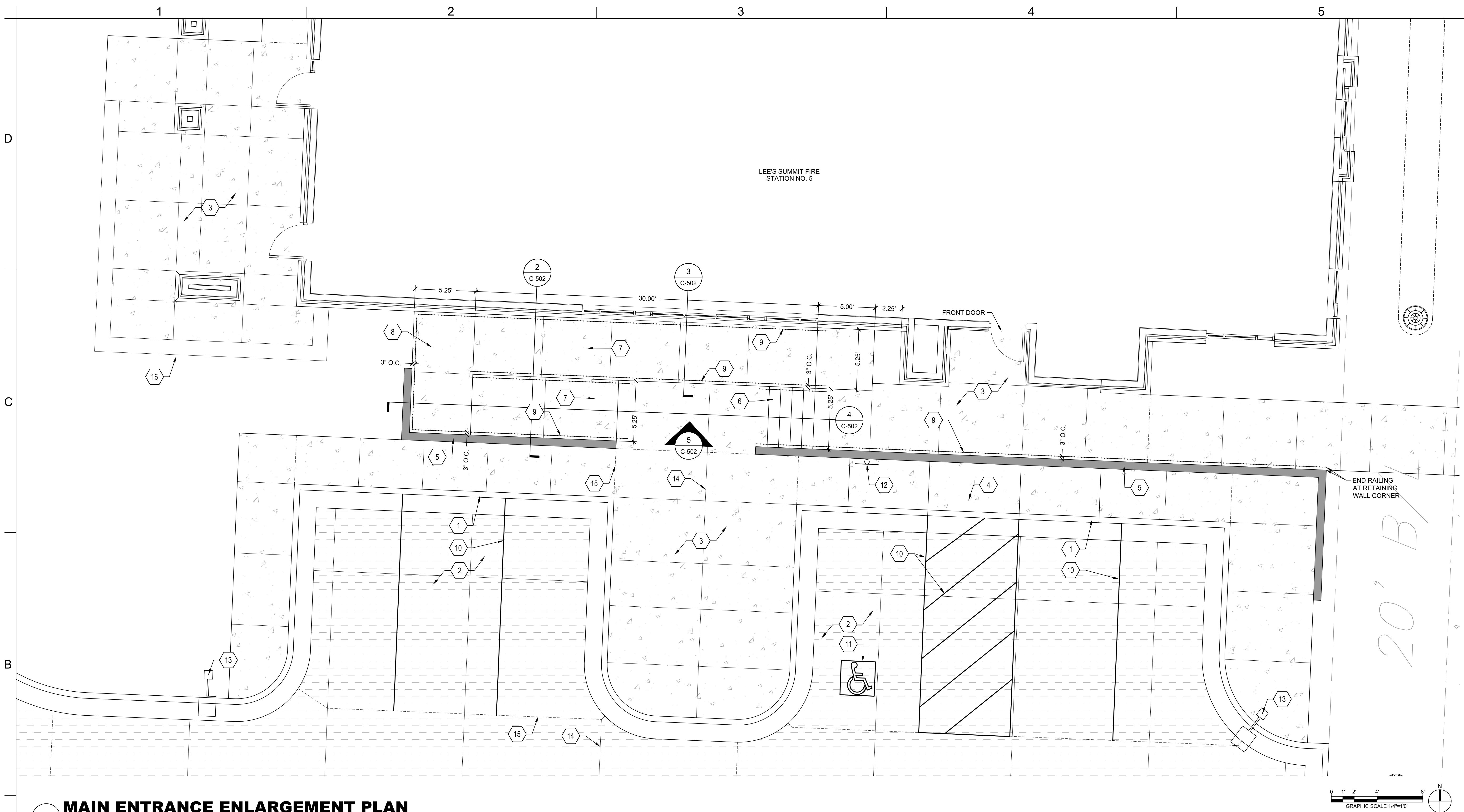
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**PUBLIC
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PROFILES**

C-230

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1 MAIN ENTRANCE ENLARGEMENT PLAN
1/4" = 1'-0"

KEYNOTES

- | | |
|--|--|
| 1 TYP. CURB & GUTTER
LEE'S SUMMIT STANDARD DETAIL
REF: 3/C-503 | 9 GALVANIZED RAILING
REF: 2, 3, 4, 5/C502 |
| 2 TYP. CONCRETE PAVING
REF: 1/C-500 | 10 PAVEMENT STRIPING
REF: 3/C-500 |
| 3 CONCRETE SIDEWALK PAVING
REF: 1/C-504 | 11 ADA PAVEMENT MARKING
REF: 4/C-500 |
| 4 ADA SIDEWALK RAMP
REF: 3/C-504 | 12 ADA PARKING SIGN
REF: 5/C-500 |
| 5 RETAINING WALL, SMOOTH FINISH
REF: C-402, C-502 & STRUCTURAL | 13 TYP. AREA LIGHTING
REF: 2/C-503 |
| 6 CONCRETE STEPS
REF: 4/C-502 | 14 CONSTRUCTION JOINT
REF: 2/C-503 |
| 7 ADA RAMP | 15 ISOLATION JOINT
REF: 2/C-503 |
| 8 ADA RAMP LANDING | 16 SCREEN WALL
REF: ARCHITECTURE |

LEGEND

- | | |
|--|----------------------|
| | TYP. CURB & GUTTER |
| | TYP. CONCRETE PAVING |
| | ASPHALT PATCH |
| | CONCRETE SIDEWALK |
| | MISSOURI RIVER ROCK |
| | RETAINING WALL |

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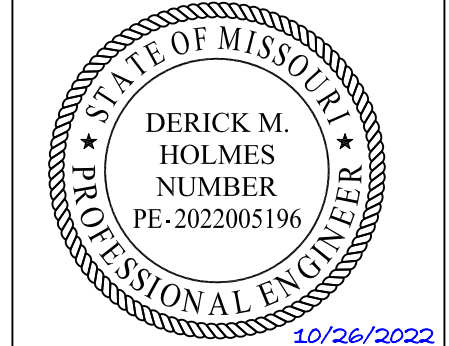
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FIRE STATION #5
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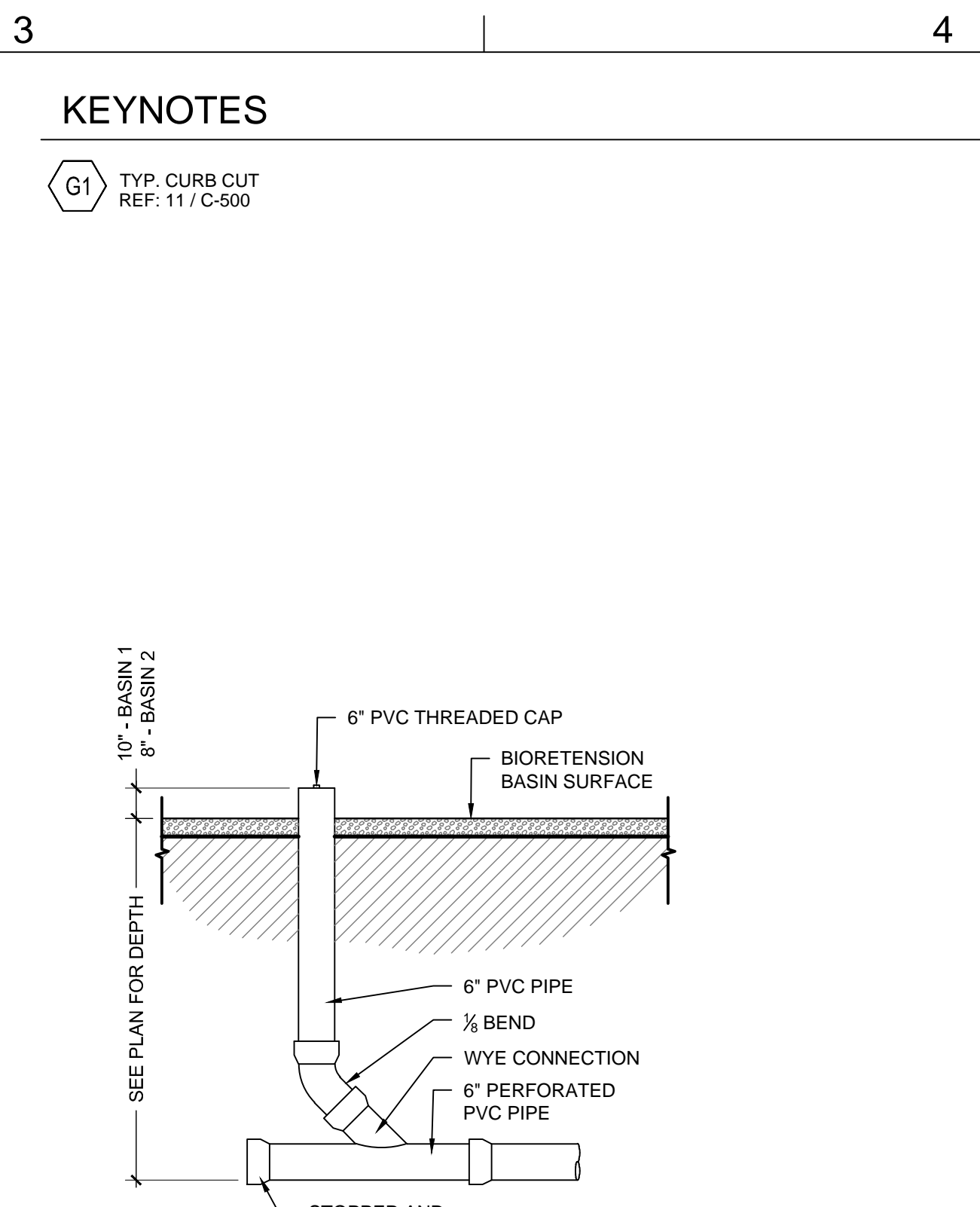
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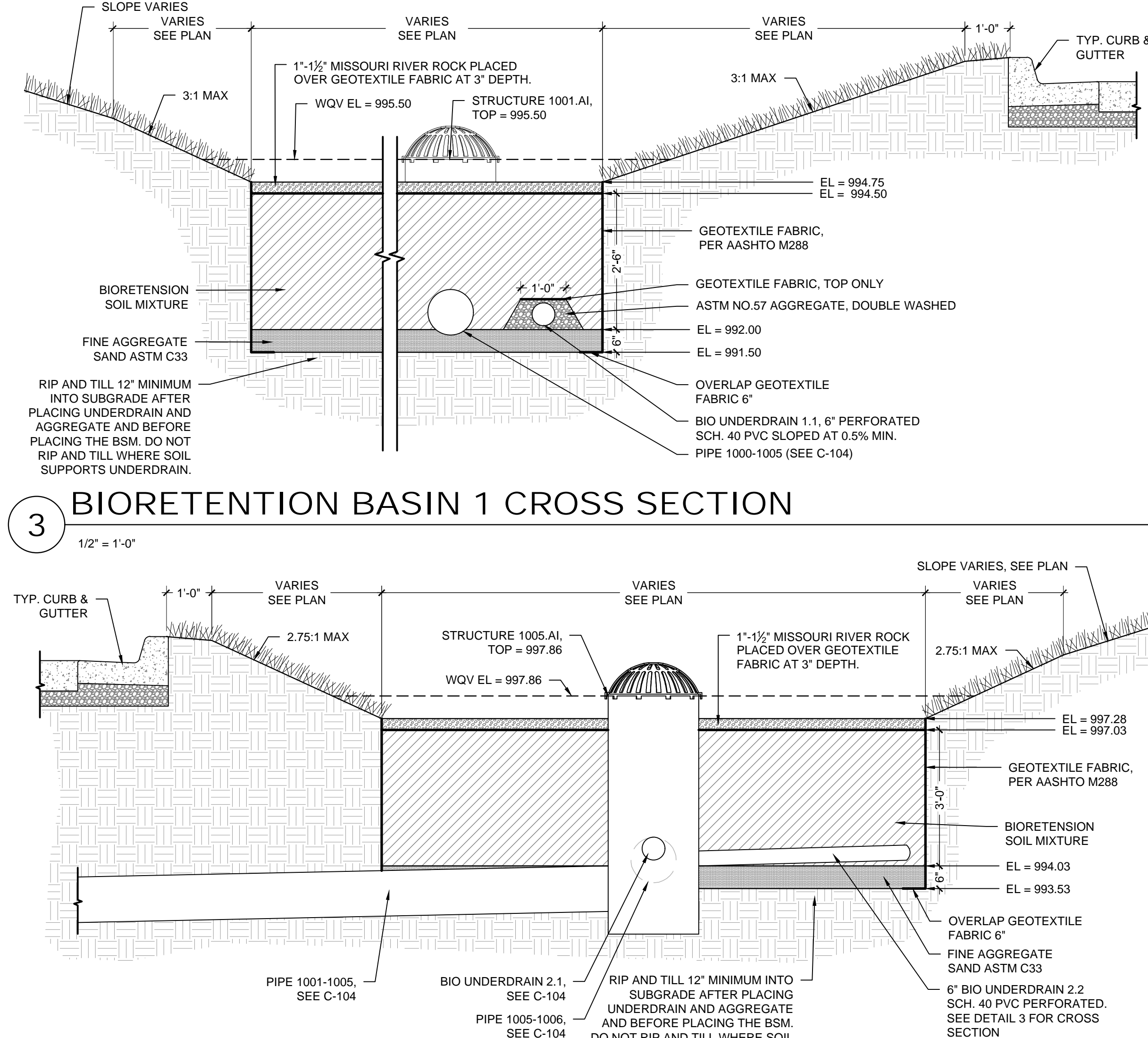
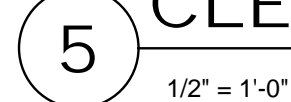
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**SITE
ENLARGEMENTS**

C-400



1 BIC
1" = 5'-0"



2) BIC
1" = 5'-0"

4 — $1\frac{1}{2}'' = 1'-0''$

1. BIORETENTION FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREAS ARE PERMANENTLY STABILIZED AGAINST EROSION AND SEDIMENTATION. ANY DISCHARGE OF SEDIMENT THAT AFFECTS THE PERFORMANCE OF THE CELL WILL REQUIRE RECONSTRUCTION OF THE CELL TO RESTORE ITS DEFINED PERFORMANCE.
2. NO HEAVY EQUIPMENT SHALL OPERATE WITHIN THE BIORETENTION FACILITY DURING UNDERDRAIN PLACEMENT, BACKFILLING, OR PLANTING OF THE FACILITY.
3. IF THE BIORETENTION FACILITY IS TO BE USED AS A SEDIMENT BASIN, THE BIORETENTION FACILITY SHALL BE EXCAVATED TO THE DIMENSIONS, SIDE SLOPES, AND 1 FOOT ABOVE THE BOTTOM OF THE BIORETENTION SOIL MIXTURE. ANY SEDIMENT FROM CONSTRUCTION OPERATIONS DEPOSITED IN THE BIORETENTION FACILITY SHALL BE COMPLETELY REMOVED FROM THE FACILITY AFTER ALL VEGETATION HAS BEEN ESTABLISHED. THE EXCAVATION LIMITS SHALL THEN BE FINAL GRADED TO THE DIMENSIONS, SIDE SLOPES, AND FINAL ELEVATIONS. LOW GROUND-CONTACT PRESSURE EQUIPMENT IS TO BE USED WHEN CONSTRUCTING THE BIORETENTION FACILITIES TO MINIMIZE DISTURBANCE TO ESTABLISH AREAS AROUND PERIMETER OF CELL. NO HEAVY EQUIPMENT SHALL BE USED WITHIN THE PERIMETER OF THE BIORETENTION FACILITY BEFORE, DURING, OR AFTER THE PLACEMENT OF THE BSM.
4. THE BIORETENTION SOIL MIXTURE (BSM) SHALL BE PLACED IN LAYERS NOT TO EXCEED 12 INCHES. THE BSM SHALL BE SATURATED OVER THE ENTIRE AREA OF THE FACILITY AFTER EACH LIFT OF BSM IS PLACED UNTIL WATER FLOWS FROM THE UNDERDRAIN TO LIGHTLY CONSOLIDATE THE BSM MIXTURE. WATER FOR SATURATION SHALL BE APPLIED BY SPRAYING OR SPRINKLING TO AVOID SEPARATION OF THE BSM COMPONENTS. FINAL GRADING OF THE BSM SHALL BE PERFORMED AFTER A 24-HOUR SETTLING PERIOD. UPON FINAL GRADING THE SURFACE OF THE BSM SHALL BE ROTO-TILLED TO A DEPTH OF 6".
5. SEE DRAWING L-100 AND L-101 FOR PLANTING SCHEDULE. PESTICIDES, HERBICIDES, AND FERTILIZER SHALL NOT BE APPLIED DURING PLANTING UNDER ANY CIRCUMSTANCES.

MATERIALS

- A. BIORTENTION SOIL MIXTURE: THE BIORTENTION SOIL MIXTURE (BSM) IS A MIXTURE OF PLANTING SOIL, COMPOST, AND SAND CONSISTING OF THE FOLLOWING:

ITEM	COMPOSITION BY VOLUME	REFERENCE
PLANTING SOIL	30%	SEE BELOW
ORGANIC COMPOST	20%	SEE BELOW
SAND	50%	ASTM C33 FINE AGGREGATE

- B. PLANTING SOIL: THE USDA TEXTURAL CLASSIFICATION OF THE PLANTING SOIL FOR THE BSM SHALL BE LOAMY SAND OR SANDY LOAM. THE PLANTING SOIL SHALL BE TESTED AND MEET THE FOLLOWING CRITERIA:

ITEM	PERCENT BY WEIGHT	TEST METHOD
SAND (2.0 - 0.050 MM)	50-85%	AASHTO T88
SILT (0.050 - 0.002 MM)	0-50%	AASHTO T88
CLAY (LESS THAN 0.002 MM)	2-5%	AASHTO T88
ORGANIC MATTER	3-10%	AASHTO T194

THE TEXTURAL ANALYSIS OF THE PLANTING SOIL SHALL BE AS FOLLOWS.

ASTM E11 SIEVE SIZE	MINIMUM PERCENT PASSING BY WEIGHT
2 IN.	100%
NO. 4	90
NO. 10	80

AT LEAST 45 DAYS PRIOR TO THE START OF CONSTRUCTION OF THE BIORETENTION FACILITIES, THE CONTRACTOR SHALL SUBMIT THE SOURCE AND TESTING RESULTS OF THE PLANTING SOIL FOR THE BSM TO THE ENGINEER FOR APPROVAL.

- C. ORGANIC COMPOST:
- COMPOST IS DEEMED ACCEPTABLE IF IT MEETS 2 OF THE FOLLOWING REQUIREMENTS:
1. C/N RATIO \leq 25;
 2. OXYGEN UPTAKE RATE \leq 150 mg/ O₂/kg VOLATILE SOLIDS PER HOUR
 3. COMPOST MUST NOT CONTAIN MORE THAN 1 PERCENT FOREIGN MATTER. FOREIGN MATTER IS DEFINED AS: "ANY MATTER OVER A 2 MM DIMENSION THAT RESULTS FROM HUMAN INTERVENTION AND HAVING ORGANIC OR INORGANIC CONSTITUENTS SUCH AS METAL, GLASS AND SYNTHETIC POLYMERS (E.G., PLASTIC OR RUBBER) THAT MAY BE PRESENT IN THE COMPOST BUT EXCLUDING MINERAL SOILS, WOODY MATERIAL AND ROCKS."
 4. FOREIGN MATTER LESS THAN 1 PERCENT BY WEIGHT MUST NOT EXCEED 12.5 MM IN ANY DIMENSION.
- D. THE BIORETENTION SOIL MIXTURE (BSM) SHALL BE A UNIFORM MIX, FREE OF PLANT RESIDUE, STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES EXCLUSIVE OF MULCH. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE BIORETENTION AREA. ANY SUCH MATERIALS MAY BE HARMFUL TO PLANT GROWTH, OR PROVIDE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS.

1. THE BIORETENTION SOIL MIXTURE SHALL BE TESTED AND MEET THE FOLLOWING CRITERIA:		
ITEM	CRITERIA	TEST METHOD
CORRECTED pH	5.5 - 7.5	ASTM D4972
MAGNESIUM	MINIMUM 32 PPM	*
PHOSPHORUS (PHOSPHATE - P ₂ O ₅)	NOT TO EXCEED 60 PPM PLANT AVAILABLE PHOSPHORUS	*
POTASSIUM (K ₂ O)	MINIMUM 78 PPM	*
SOLUBLE SALTS	NOT TO EXCEED 500 PPM	*

*USE AUTHORIZED SOIL TEST PROCEDURES

2. SHOULD THE pH FALL OUTSIDE OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED WITH LIME (TO RAISE) OR AMMONIUM SULFATE (TO LOWER). THE LIME OR AMMONIUM SULFATE MUST BE MIXED UNIFORMLY INTO THE BSM PRIOR TO USE IN BIORETENTION FACILITIES.
3. SHOULD THE BSM NOT MEET THE MINIMUM REQUIREMENT FOR MAGNESIUM, IT MAY BE MODIFIED WITH MAGNESIUM SULFATE. LIKEWISE, SHOULD THE BSM NOT MEET THE MINIMUM REQUIREMENT FOR POTASSIUM, IT MAY BE MODIFIED WITH POTASH. MAGNESIUM SULFATE AND POTASH MUST BE MIXED UNIFORMLY INTO THE BSM PRIOR TO USE IN BIORETENTION FACILITIES.
4. PLANTING SOIL, AND/OR BSM THAT FAILS TO MEET THE MINIMUM REQUIREMENTS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. MIXING OF THE CORRECTIVE ADDITIVES TO THE BSM IS INCIDENTAL AND SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. MIXING OF THE BSM TO A HOMOGENOUS CONSISTENCY SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER. UPON APPROVAL OF ALL REQUIREMENTS AND TESTING ABOVE, THE BSM SHALL BE STOCKPILED, AND NO MATERIAL SHALL BE ADDED TO THE BSM IN THE STOCKPILE OR DURING TRANSPORT TO THE BIORETENTION FACILITY.

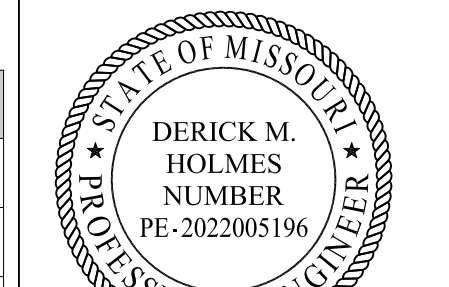


FIRE STATION #5
CITY OF LEE'S SUMMIT

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100% CONSTRUCTION DOCUMENT DRAWINGS

#	Description	Date
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PROJECT NO:	18225R21001
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DATE: 10.26.2022

DRAWN BY: KDW

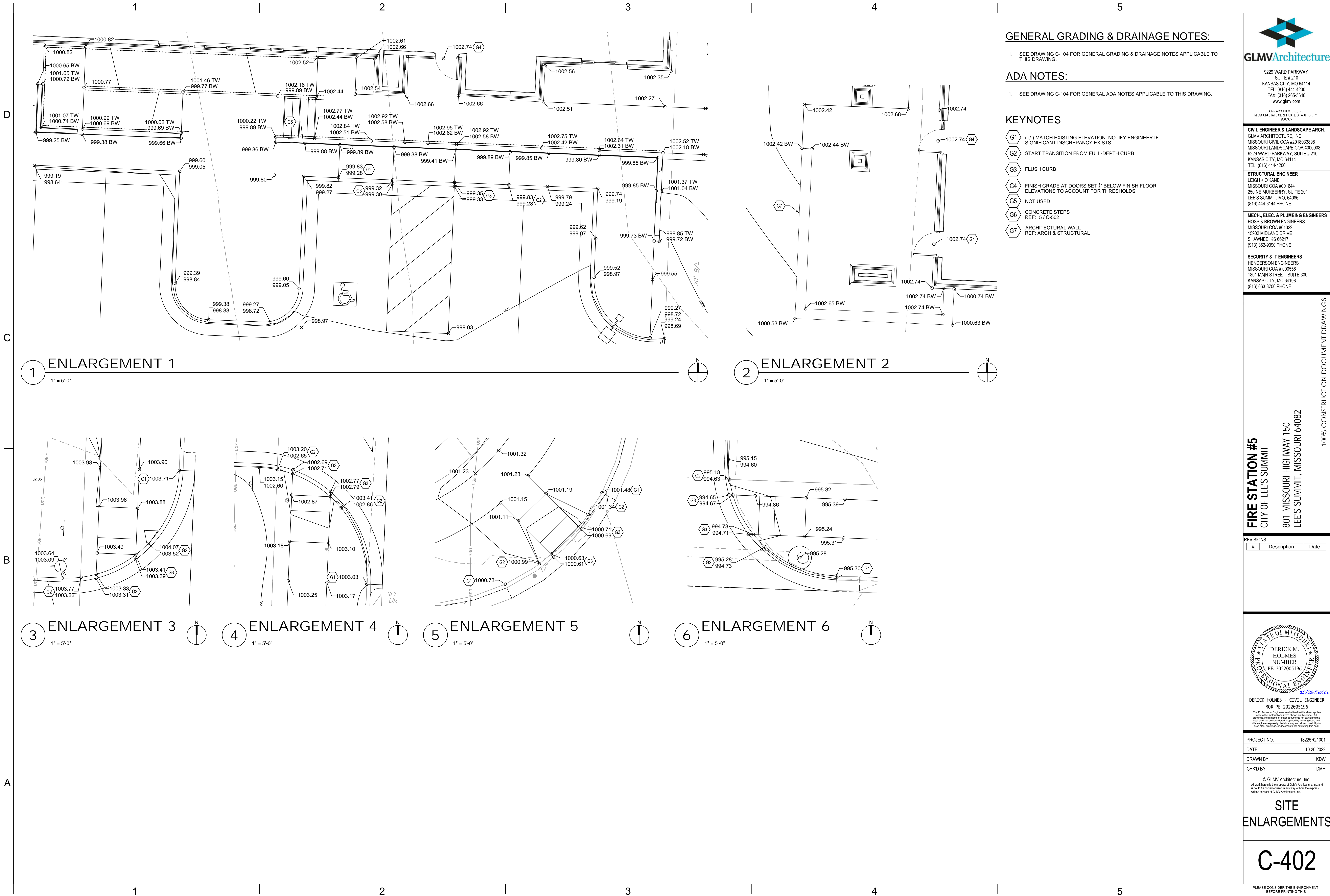
CHK'D BY:	DMH
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SITE ENLARGEMENTS

C-401

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GENERAL GRADING & DRAINAGE NOTES:


1. SEE DRAWING C-104 FOR GENERAL GRADING & DRAINAGE NOTES APPLICABLE TO THIS DRAWING.

ADA NOTES:

1. SEE DRAWING C-104 FOR GENERAL ADA NOTES APPLICABLE TO THIS DRAWING.

KEYNOTES

- G1 (+/-) MATCH EXISTING ELEVATION. NOTIFY ENGINEER IF SIGNIFICANT DISCREPANCY EXISTS.
- G2 START TRANSITION FROM FULL-DEPTH CURB
- G3 FLUSH CURB
- G4 FINISH GRADE AT DOORS SET 1/2" BELOW FINISH FLOOR ELEVATIONS TO ACCOUNT FOR THRESHOLDS.
- G5 NOT USED
- G6 CONCRETE STEPS
REF: 5 / C-502
- G7 ARCHITECTURAL WALL
REF: ARCH & STRUCTURAL



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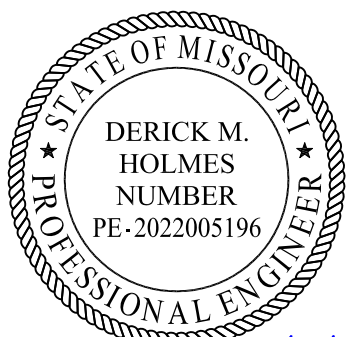
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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

#	Description	Date



10/26/2022
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MO# PE-2022005196

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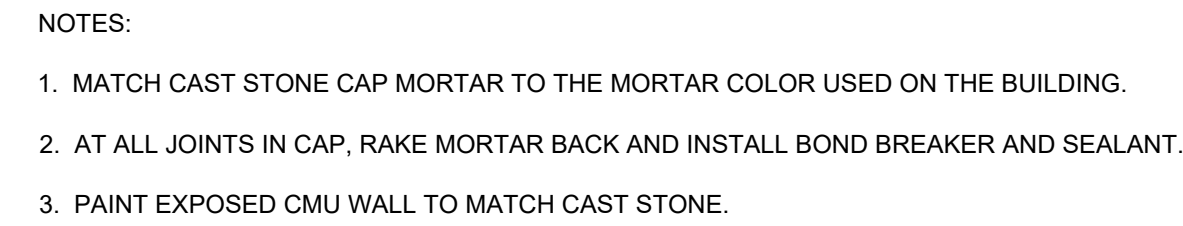
PROJECT NO: 18225R21001
DATE: 10.26.2022
DRAWN BY: KDW
CHKD BY: DMH

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SITE ENLARGEMENTS

C-402

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$$\frac{3}{4}'' = 1'$$


2



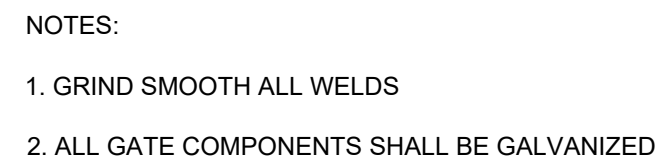
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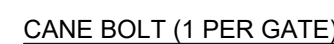
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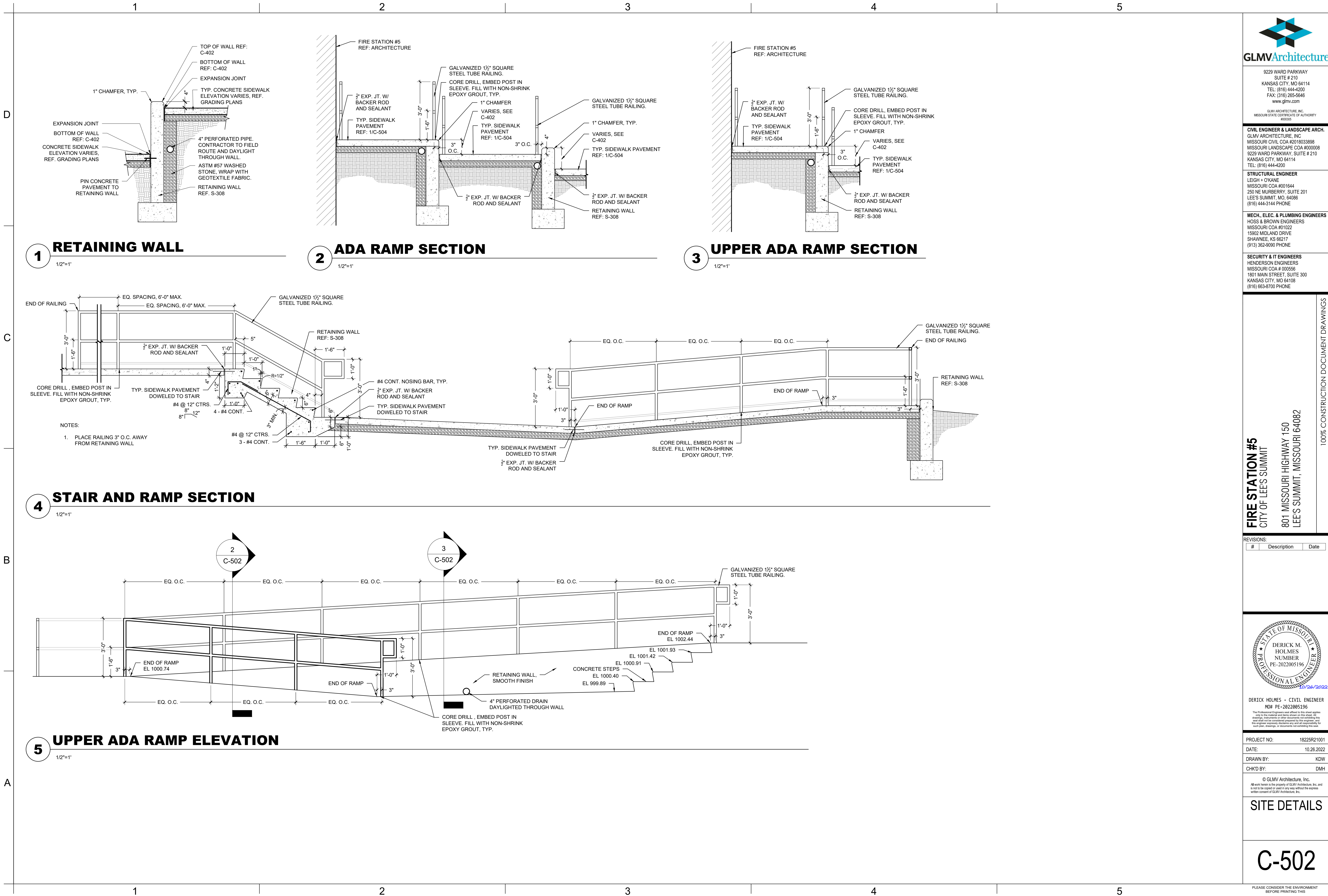


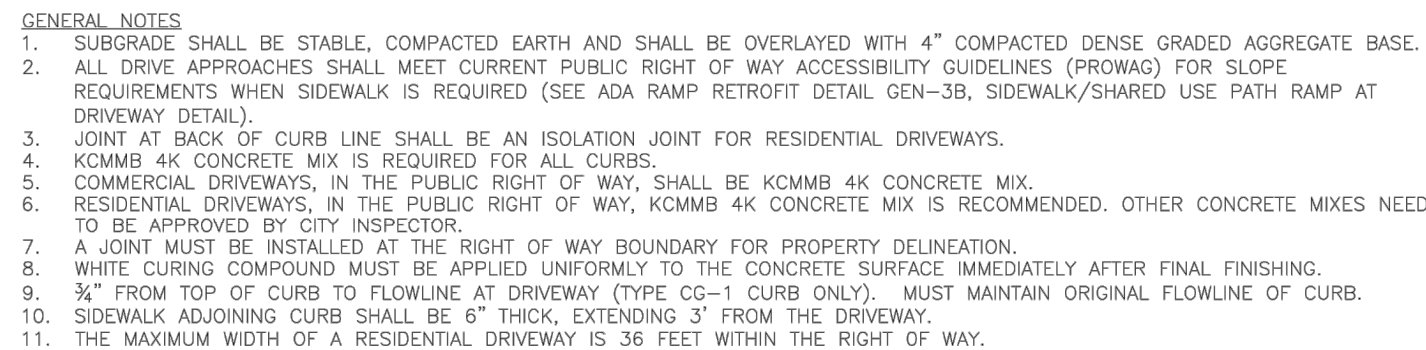
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6







POOP THICKNESS (P)	DOWEL SIZE	TIE BAR SIZE	DOWEL SPACING	TIE BAR SPACING	MAX. TRAN. SPACING	MAX. LONG. SPACING
6"	N/A	#5 x 30"	N/A	30" CTRS.	12'	12'
7"	1" x 18"	#5 x 30"	12" CTRS.	30" CTRS.	14'	14'
8"	1 1/4" x 18"	#5 x 30"	12" CTRS.	30" CTRS.	15'	14'
29"	1 1/2" x 18"	#5 x 30"	12" CTRS.	30" CTRS.	15'	15'

GENERAL NOTES:

- THE FINAL POSITION OF ALL DOWELS AND THE BARS SHALL BE PERPENDICULAR TO THE PLANE OF THE JOINT AND PARALLEL TO THE SURFACE OF THE PAVEMENT AND PARALLEL TO EACH OTHER.
- ALL DOWELS & THE BARS SHALL BE EPOXY COATED.
- DOWEL BARS SHALL BE PLACED AT 12 INCHES LONGITUDINAL JOINTS.
- THE BARS SHALL BE PLACED AT 12 INCHES FROM TRANSVERSE JOINTS.
- PANEL LENGTH TO WIDTH RATIO SHALL NOT EXCEED 1.5 TO 1.
- DOWEL BACKSET SHIPPING WIRE SHALL NOT BE CUT.
- CONTRACTOR SHALL SUBMIT PROJECT SPECIFIC JOINTING PLAN AT LEAST TWO WEEKS BEFORE PAVING OPERATIONS.
- IN ACCORDANCE WITH 22098-40, ALL JOINTS SHALL BE SEALED, INCLUDING CURBS & GUTTER.

LEE'S SUMMIT
MISSOURI

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

GEN-9



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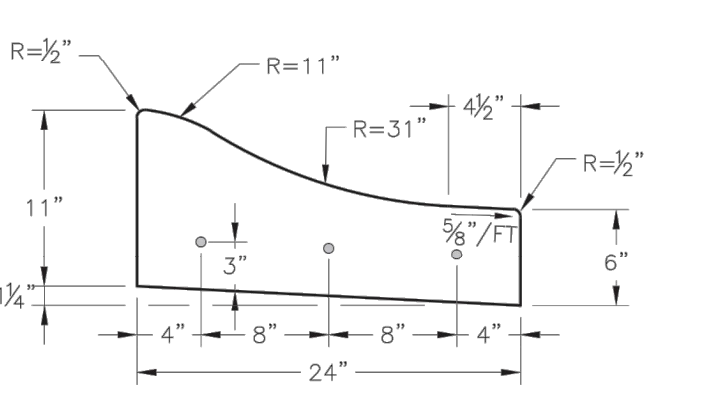
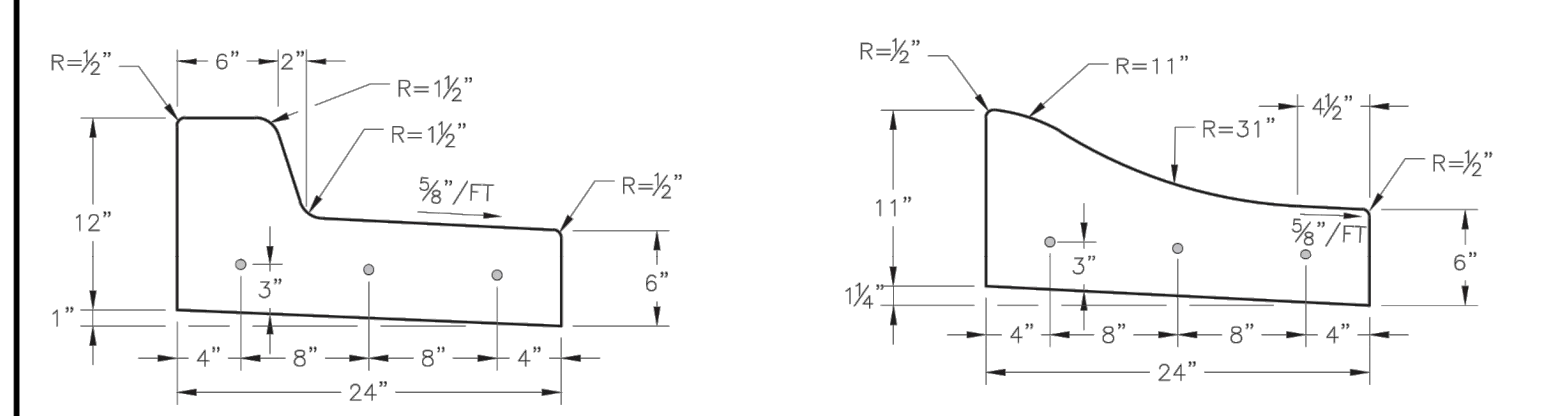
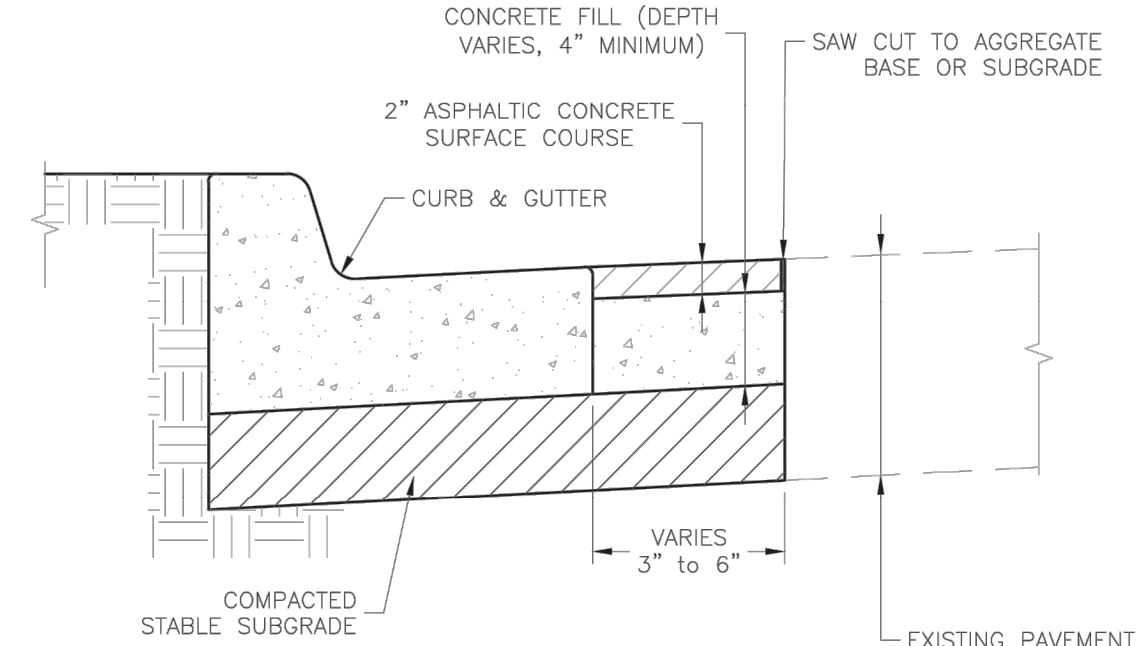
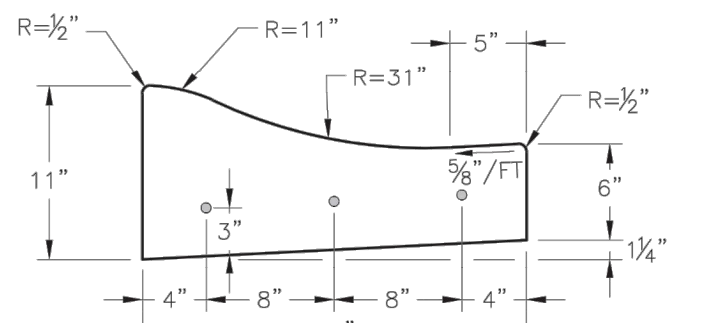
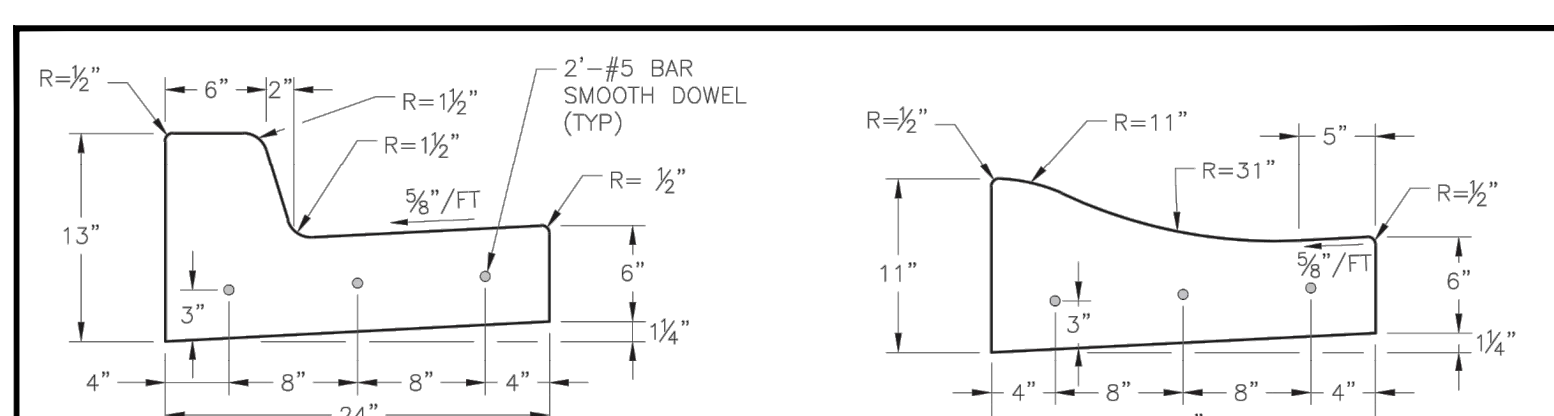
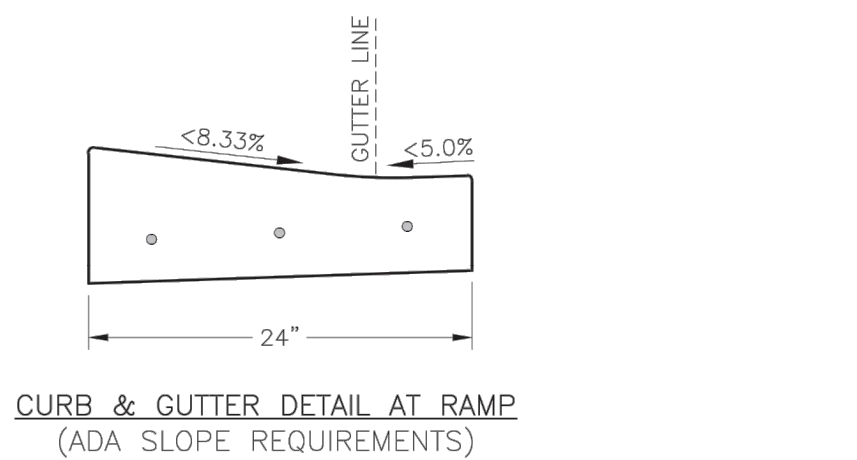
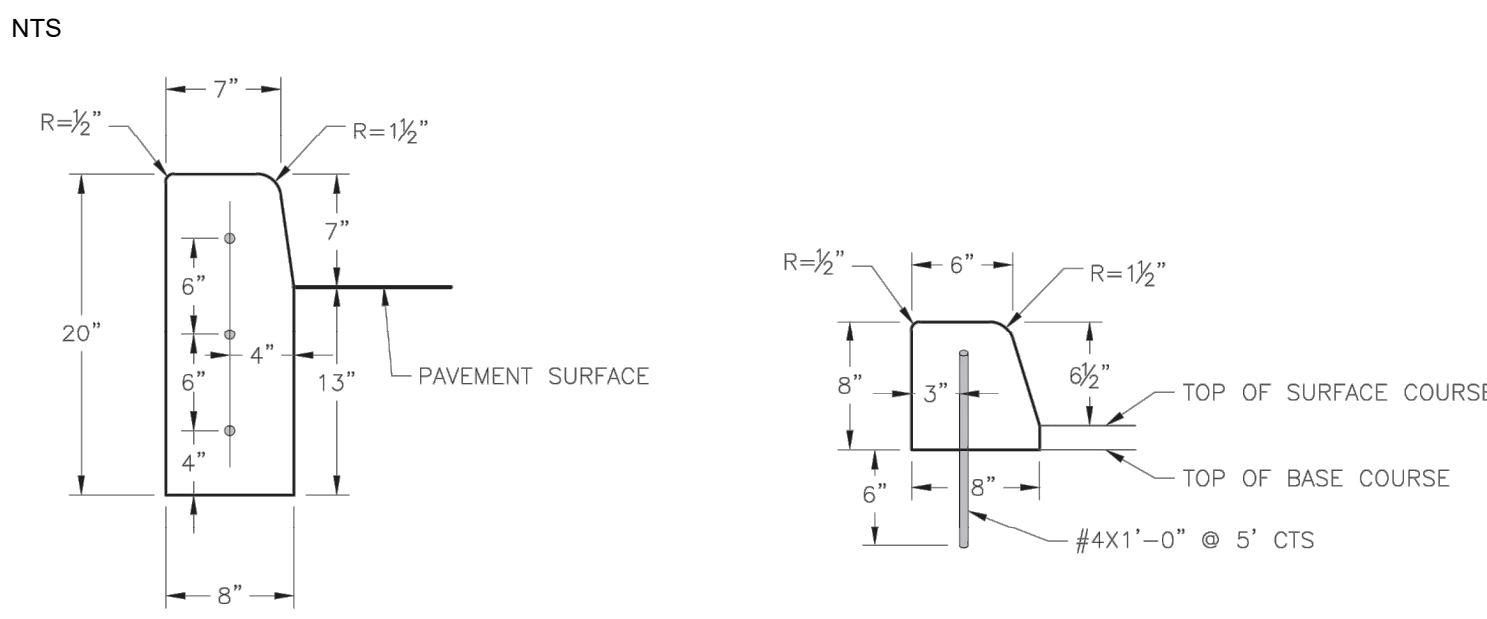
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LEE'S SUMMIT TYPICAL DRIVEWAY



- ## CURB REPLACEMENT DETAIL
- GENERAL NOTES
1. ¾" ISOLATION JOINTS WITH 3 (2"-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
 2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
 3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
 4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
 5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
 6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
 7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
 8. ALL DOWELS & TIE BARS SHALL BE EPOXY COATED.



LEE'S SUMMIT
MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
JUMMIT, JACKSON COUNTY, MO
CURB & GUTTER DETAIL

Drawn By: MIF
Checked By: DL
Date: 05/2021
Proj. #:

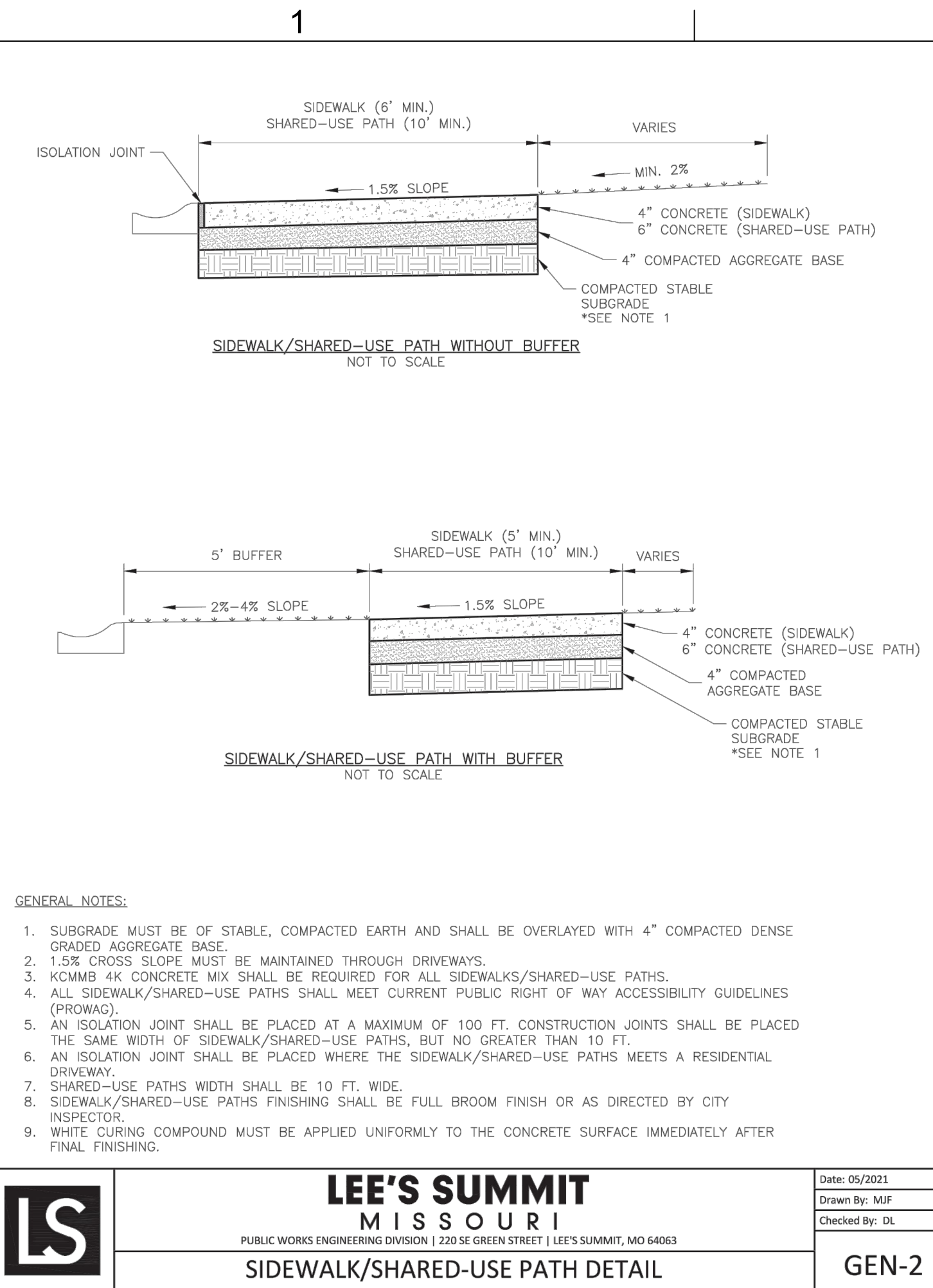
GEN-4

LEE'S SUMMIT TYPICAL CURB & GUTTER

NTS

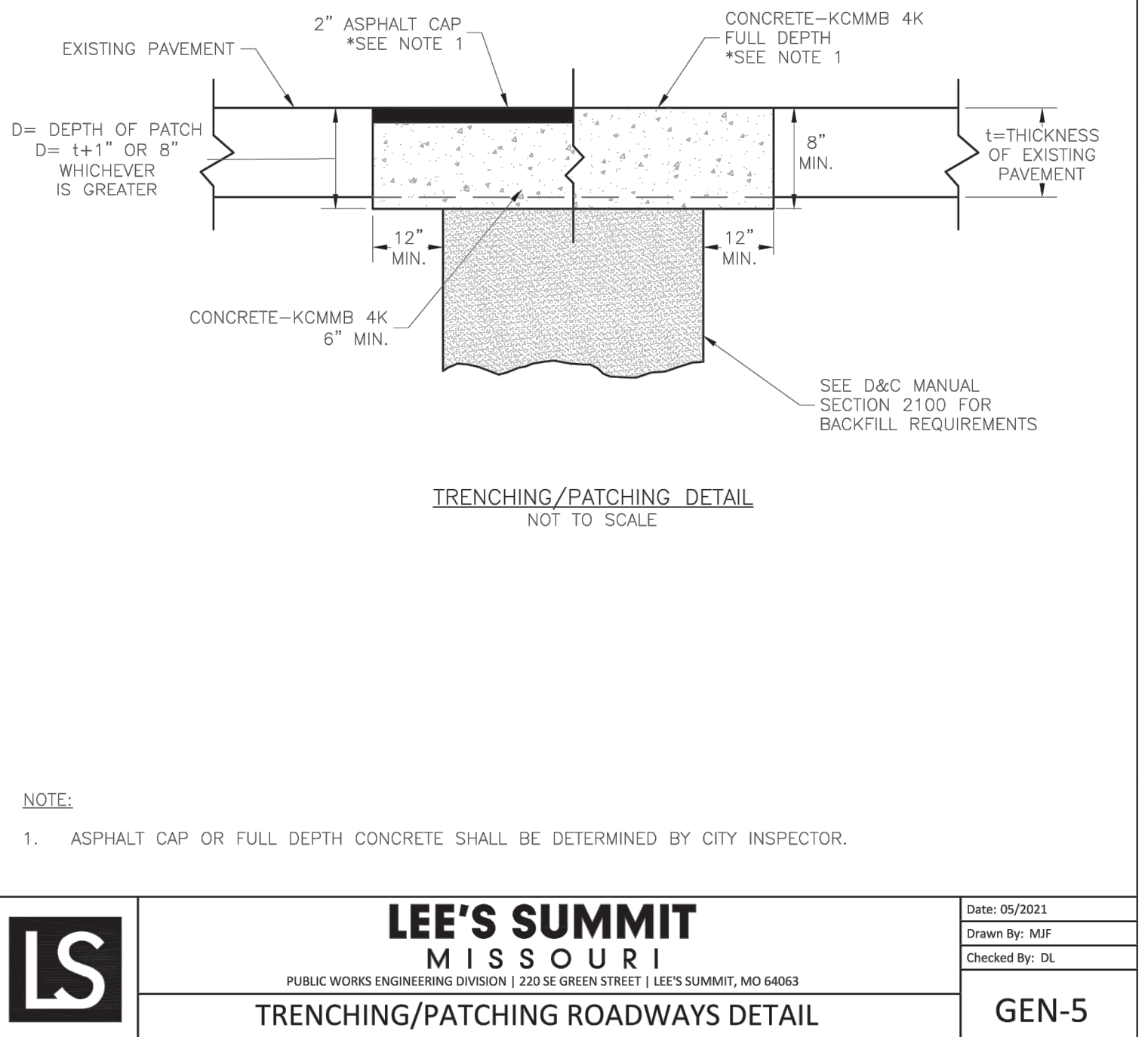
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LEE'S SUMMIT TYPICAL SIDEWALK

2



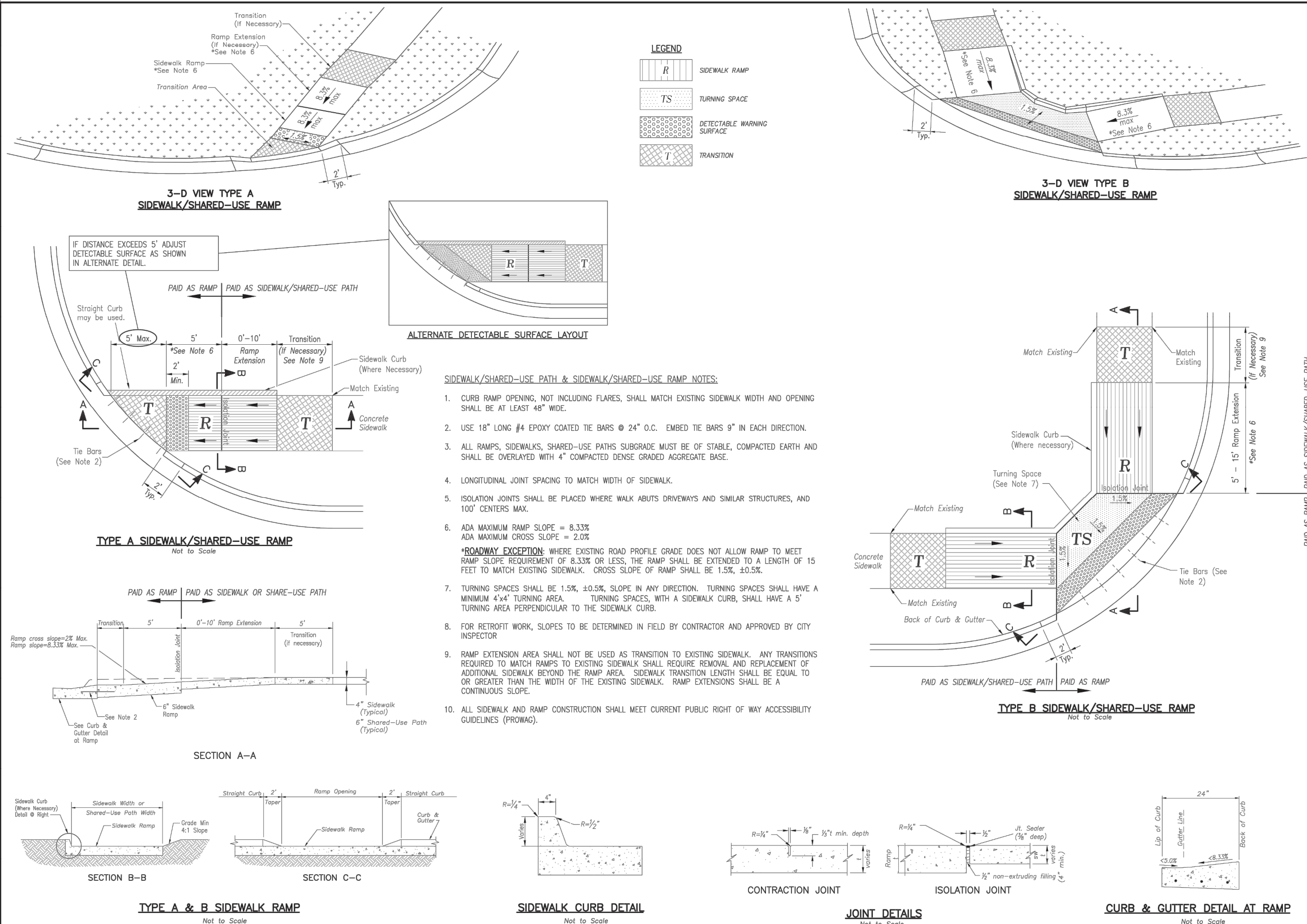
LEE'S SUMMIT TYPICAL ROADWAY PATCH

4

5

B

A



LEE'S SUMMIT TYPICAL ADA RAMP RETROFIT

LEE'S SUMMIT MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS

CITY OF LEE'S SUMMIT, MO

LEE'S SUMMIT, JACKSON COUNTY, MO

ADA RAMP RETROFIT DETAIL

Project: 18225R21001

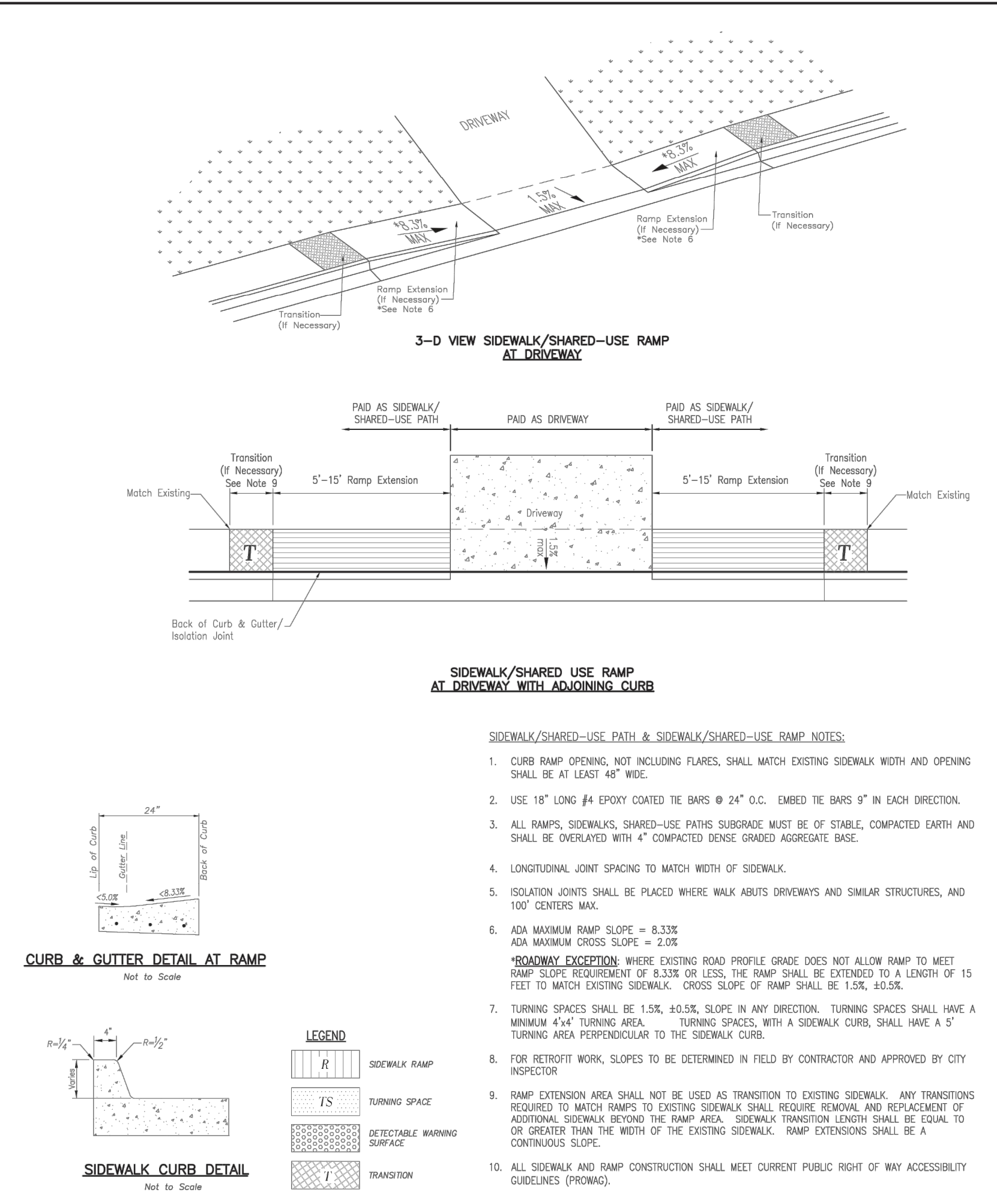
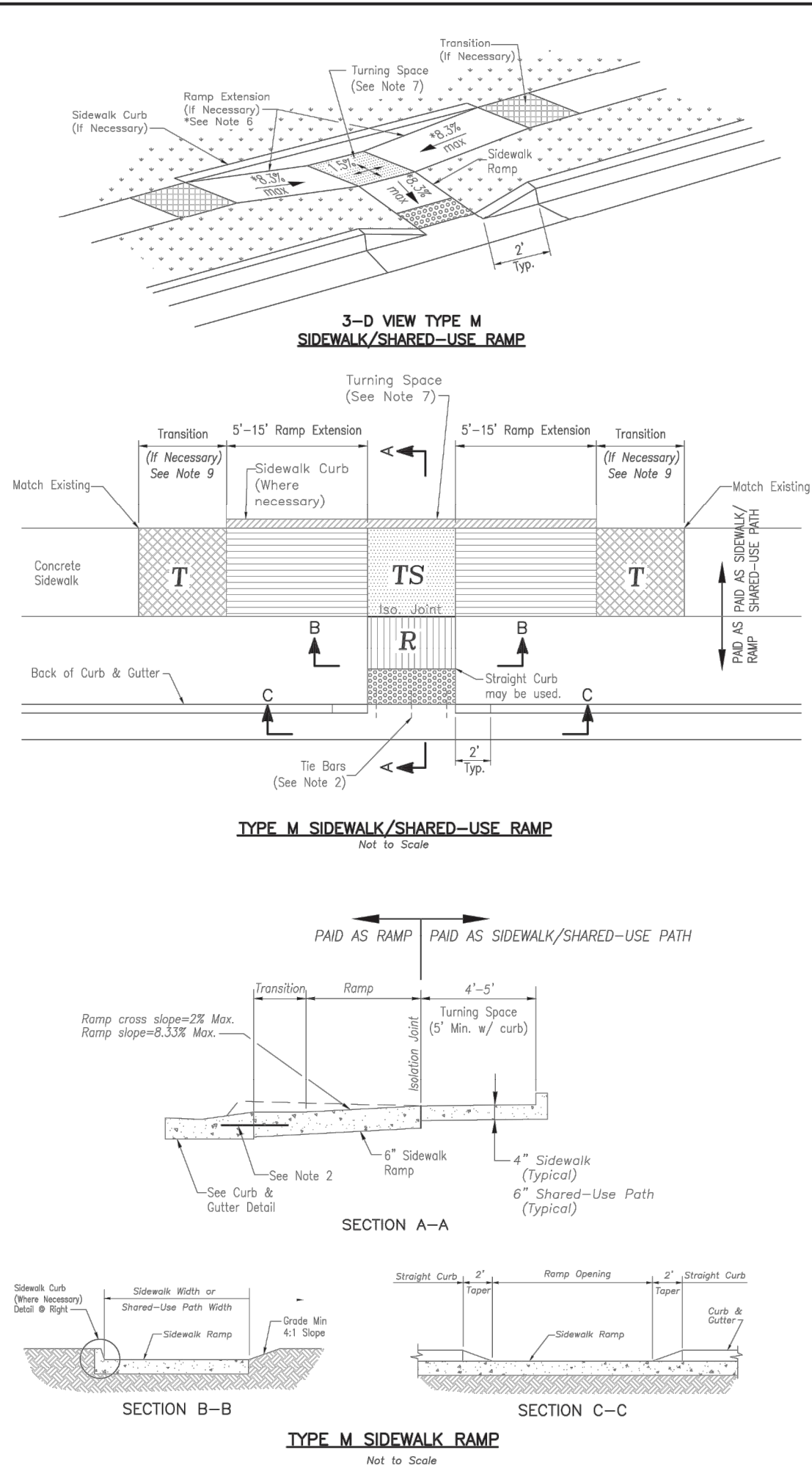
Drawn By: DMH

Checked By: DMH

Date: 10/26/2022

Proj. #: 18225R21001

GEN-3A



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FIRE STATION #5
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STATE OF MISSOURI

DERICK M. HOLMES

PROFESSIONAL ENGINEER

PE-2022005196

10/26/2022

DERICK HOLMES - CIVIL ENGINEER

MDR PE-2022005196

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PROJECT NO: 18225R21001

DATE: 10.26.2022

DRAWN BY: KDW

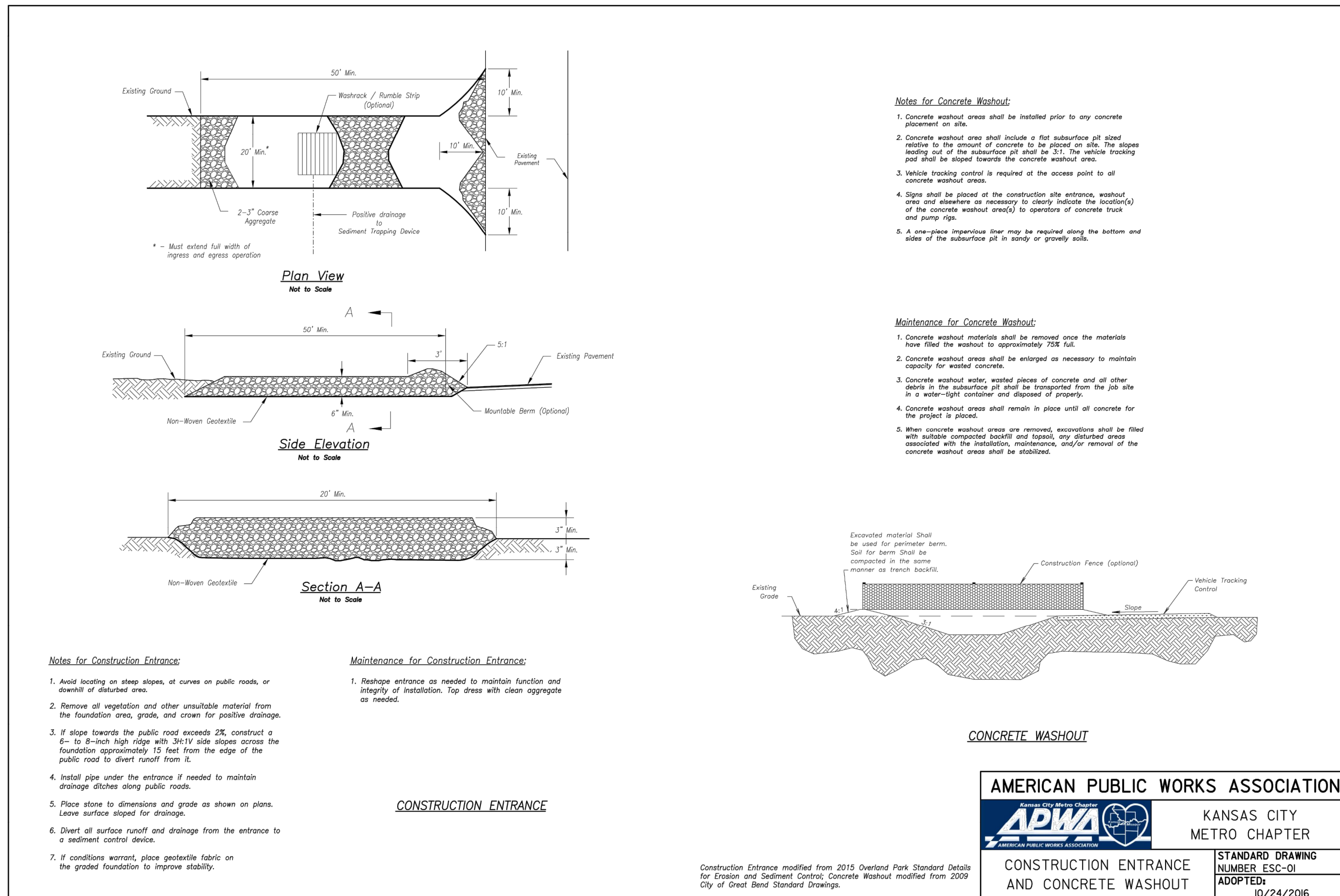
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SITE DETAILS

C-504

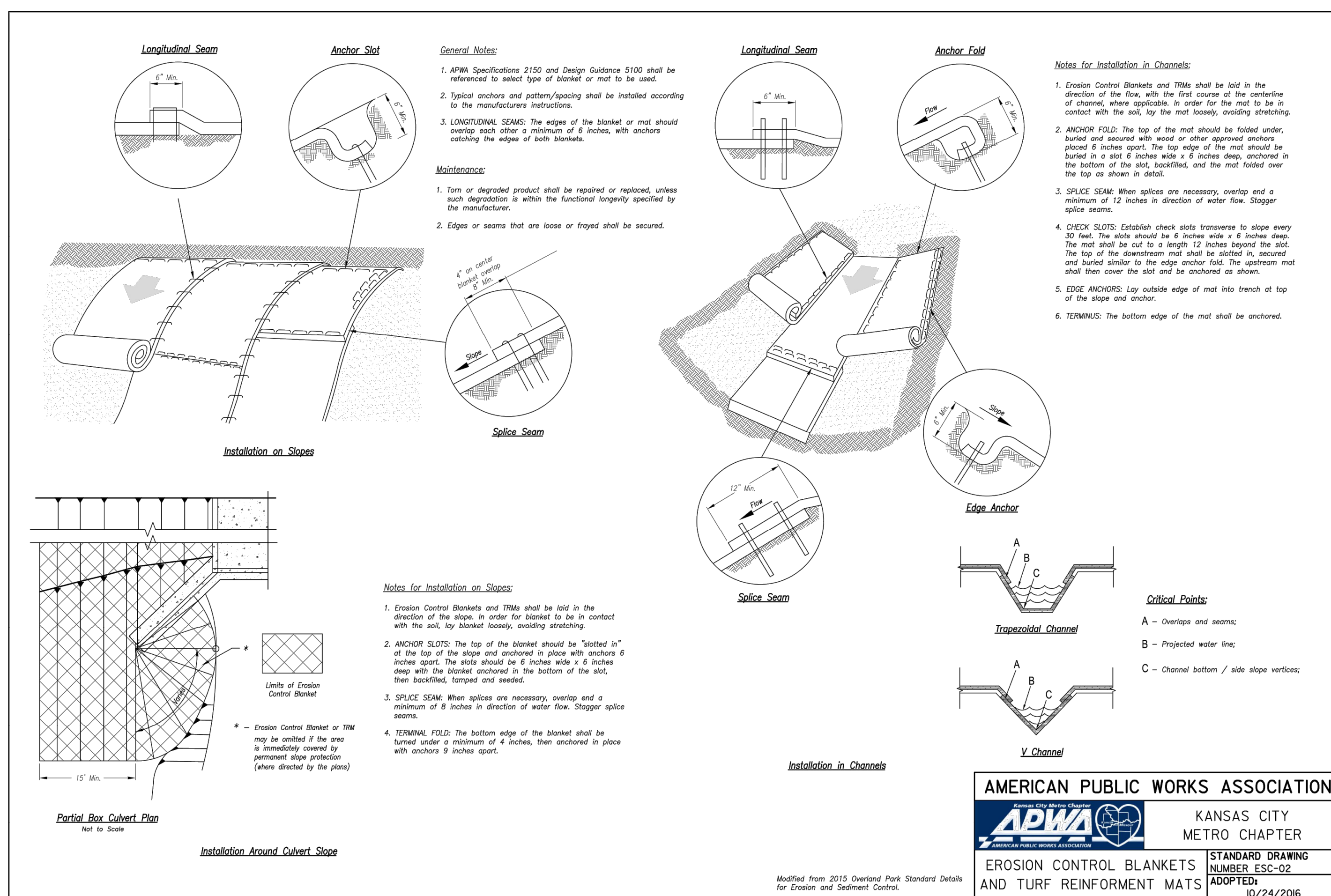
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EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS

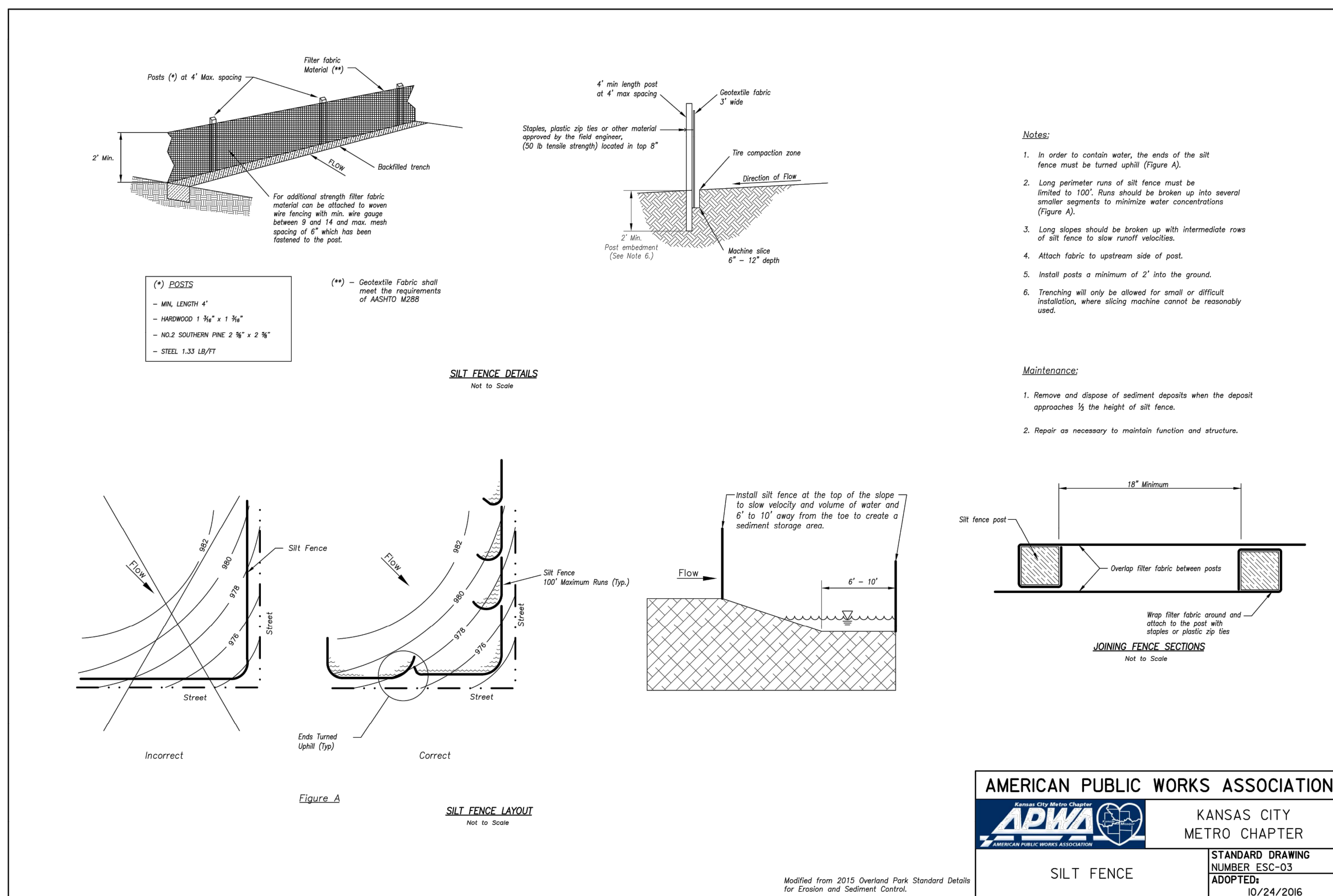
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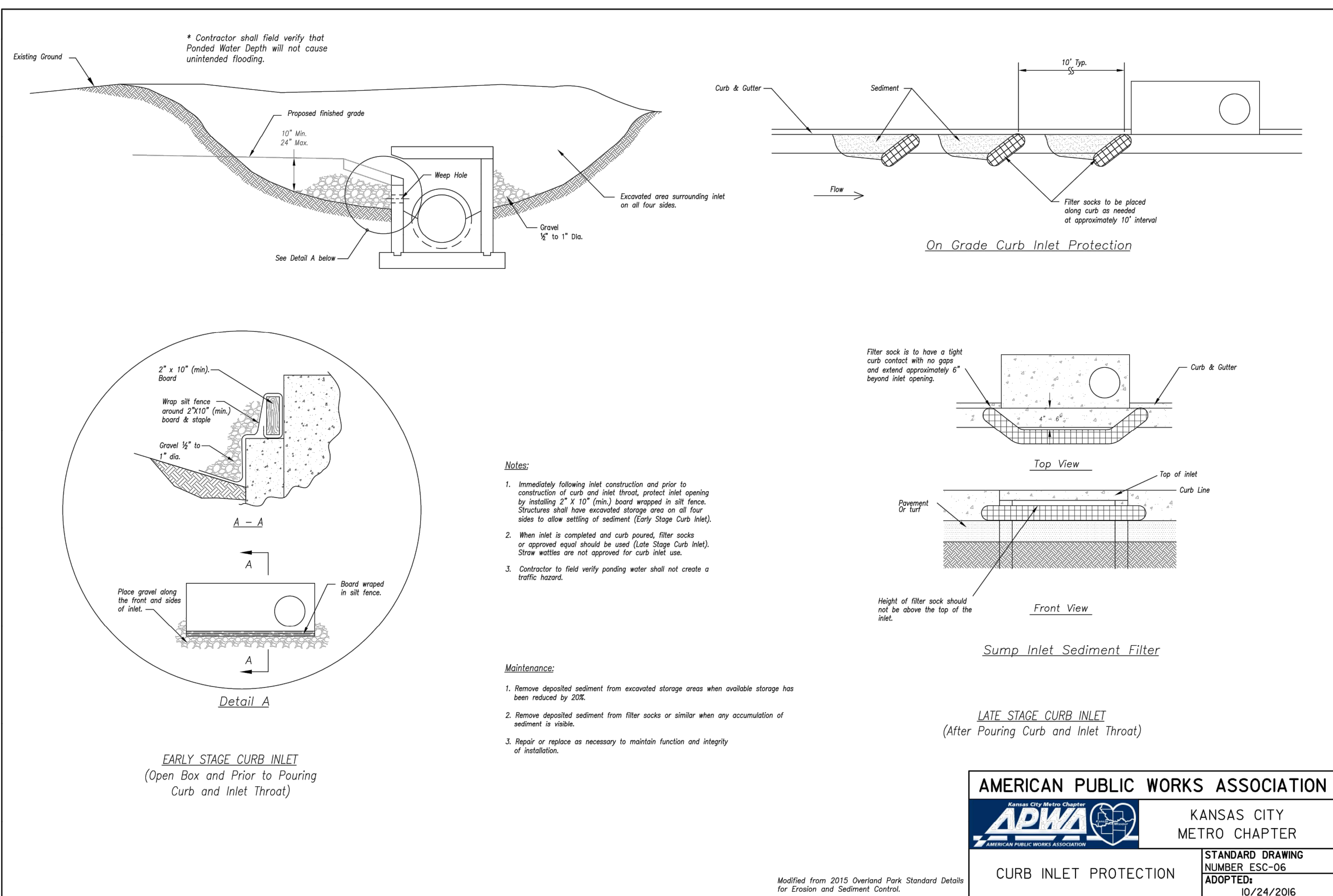
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

NTS



CURB INLET PROTECTION

NTS



A

SILT FENCE

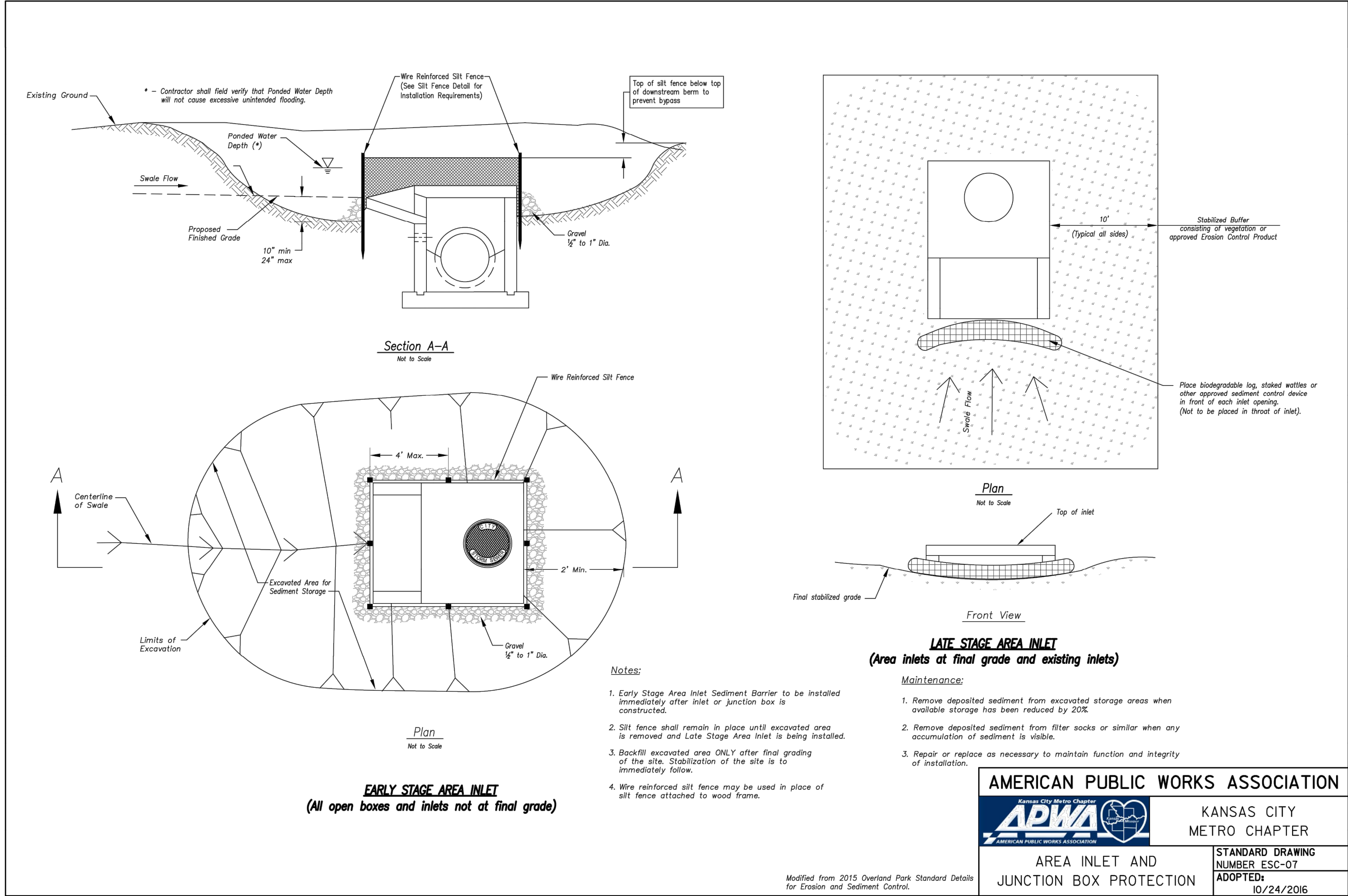
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1

AREA INLET AND JUNCTION BOX PROTECTION

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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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PROJECT NO: 18225R21001

DATE: 10.26.2022

DRAWN BY: SJB

CHKD BY: DMH

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EROSION
CONTROL
DETAILS

C-511

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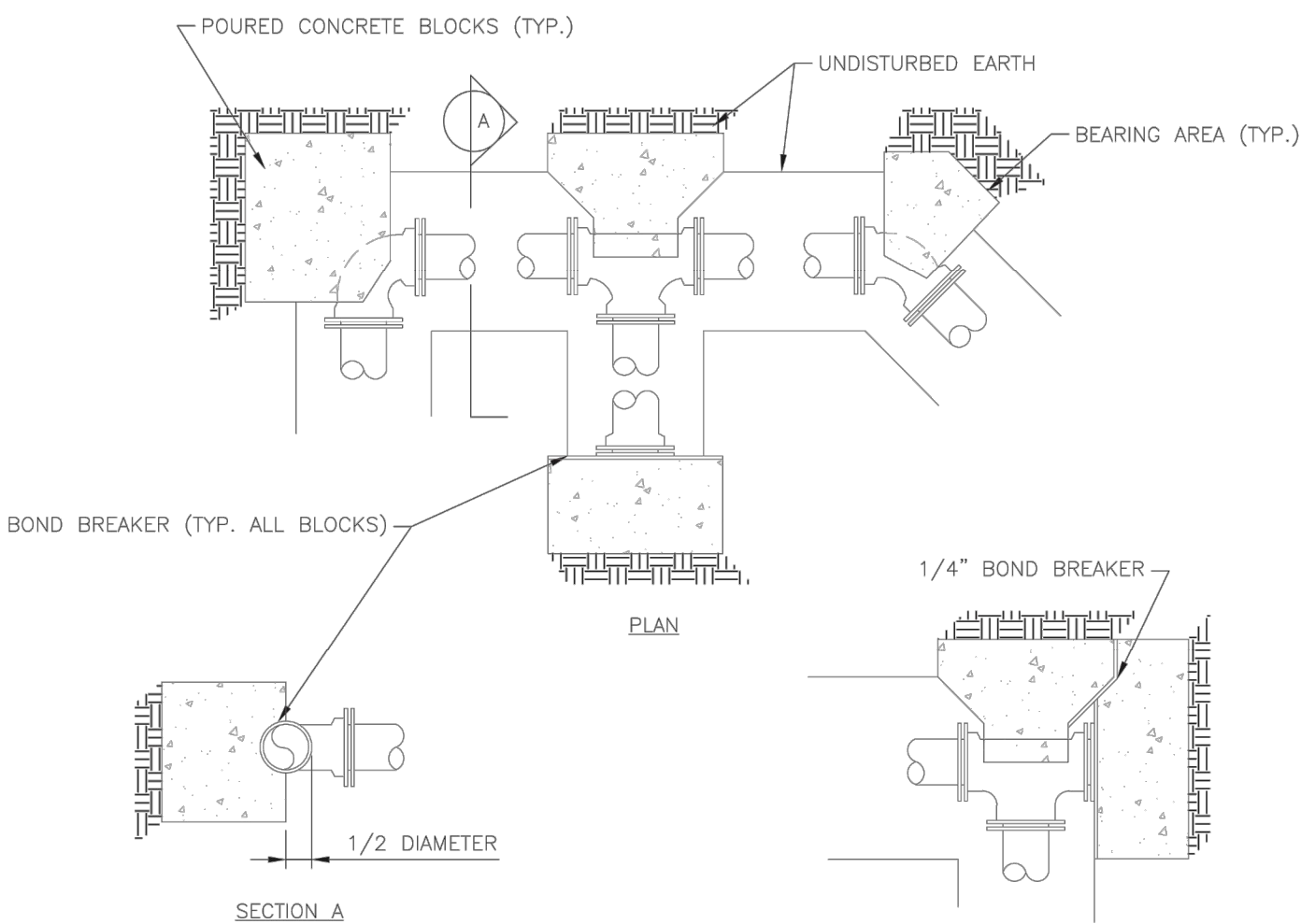
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B

A

REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF)					
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.6
18	42.4	REST. JT.	32.5	16.5	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8

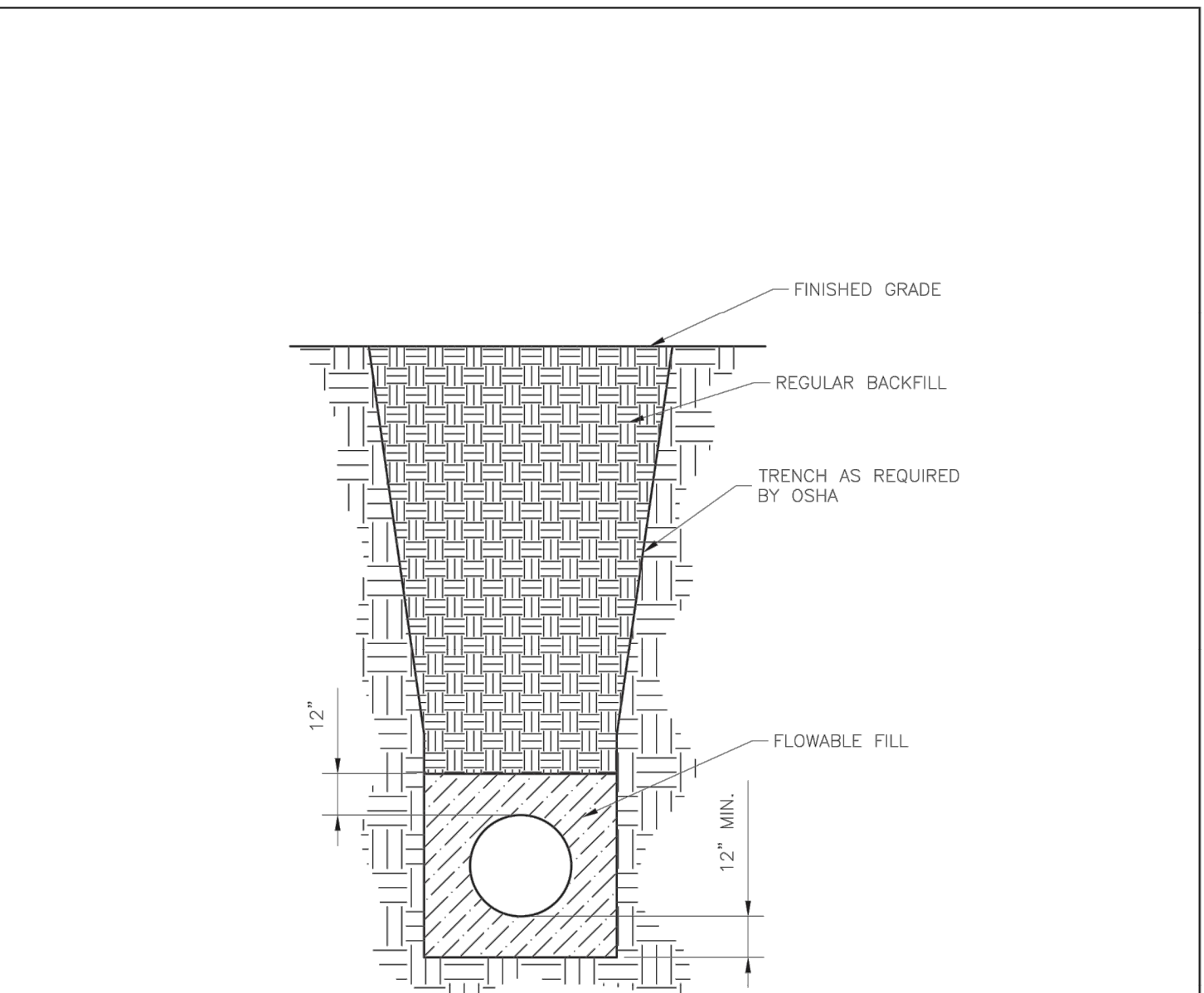


- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

LS	LEE'S SUMMIT MISSOURI <small>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</small>	Date: 01/2016 Drawn By: JN Checked By: DL
	HORIZONTAL THRUST BLOCK	WAT-1

HORIZONTAL THRUST BLOCK

NTS



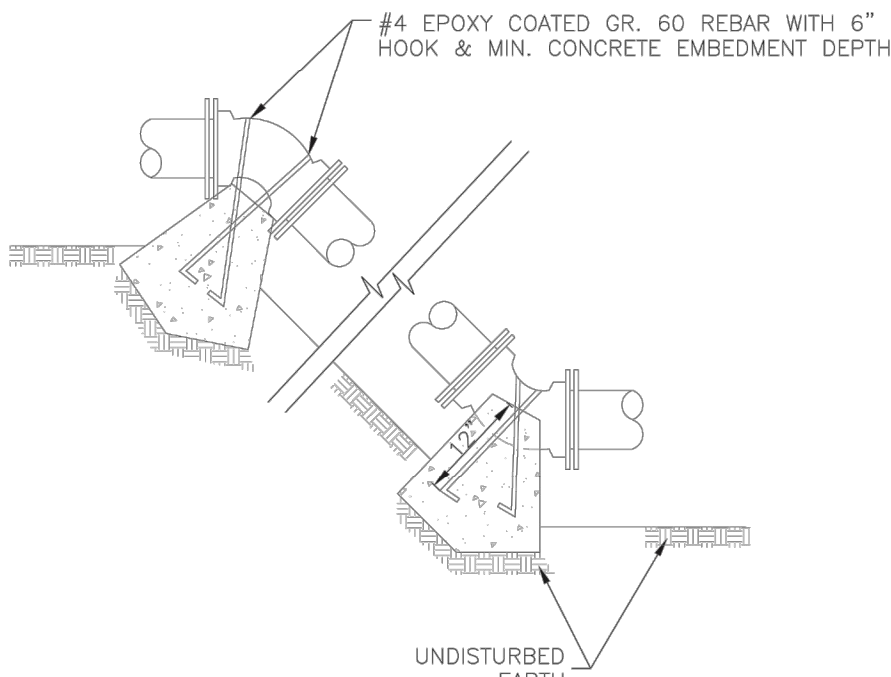
- NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
 2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
 3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
 4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".

LS	LEE'S SUMMIT MISSOURI <small>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</small>	Date: 01/2016 Drawn By: JN Checked By: DL
	WATER TRENCH CHECK DETAIL	WAT-6

WATER TRENCH CHECK DETAIL

NTS

REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)					
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	50.5	71.4	38.6	19.7	9.9
8	89.8	126.9	68.7	35.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	REST. JT.	154.6	78.8	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4
18	REST. JT.	REST. JT.	REST. JT.	177.3	89.1
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4

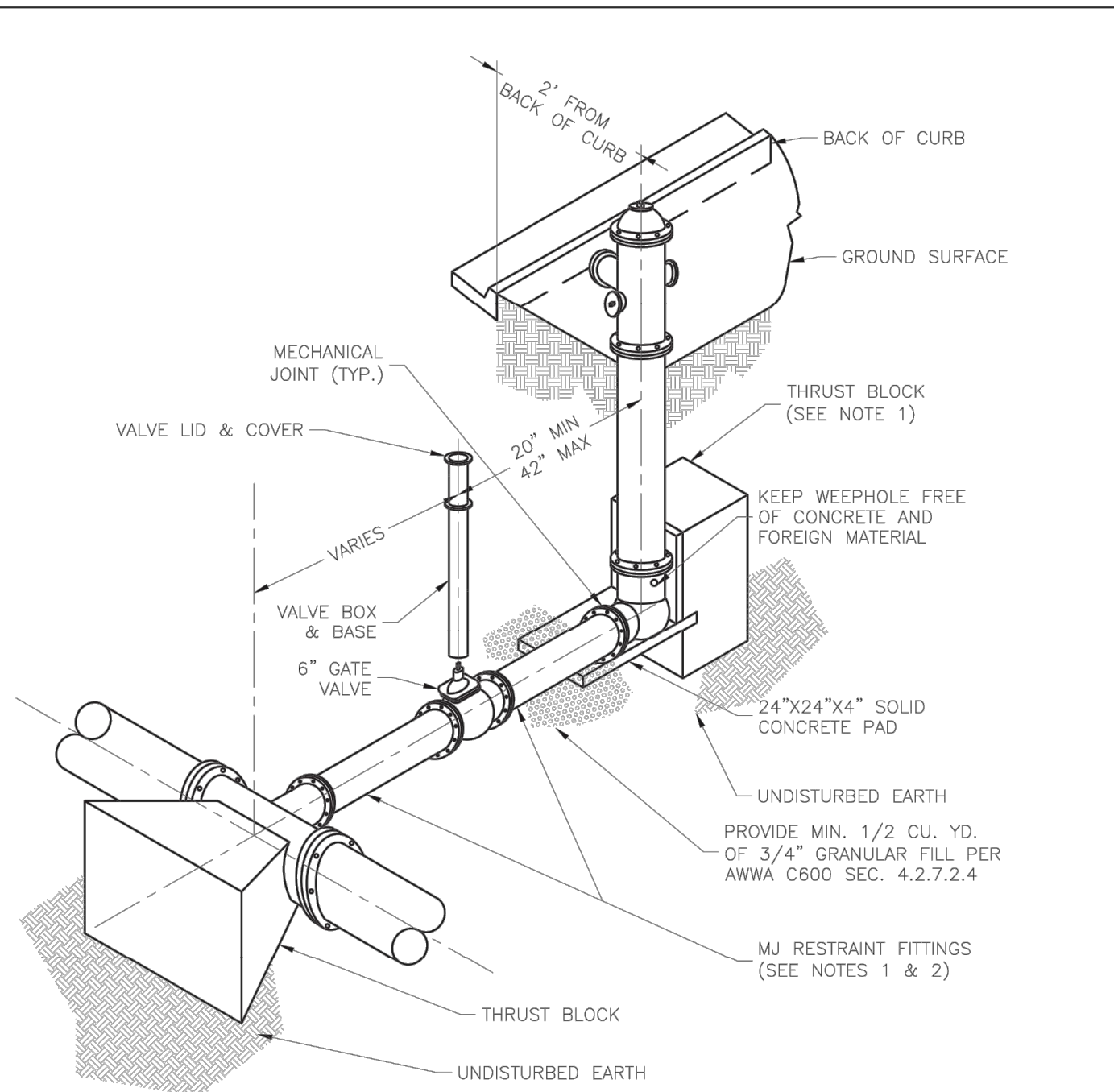


- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

LS	LEE'S SUMMIT MISSOURI <small>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</small>	Date: WAT-2 Drawn By: JN Checked By: DL
	VERTICAL THRUST BLOCK	WAT-2

VERTICAL THRUST BLOCK

NTS

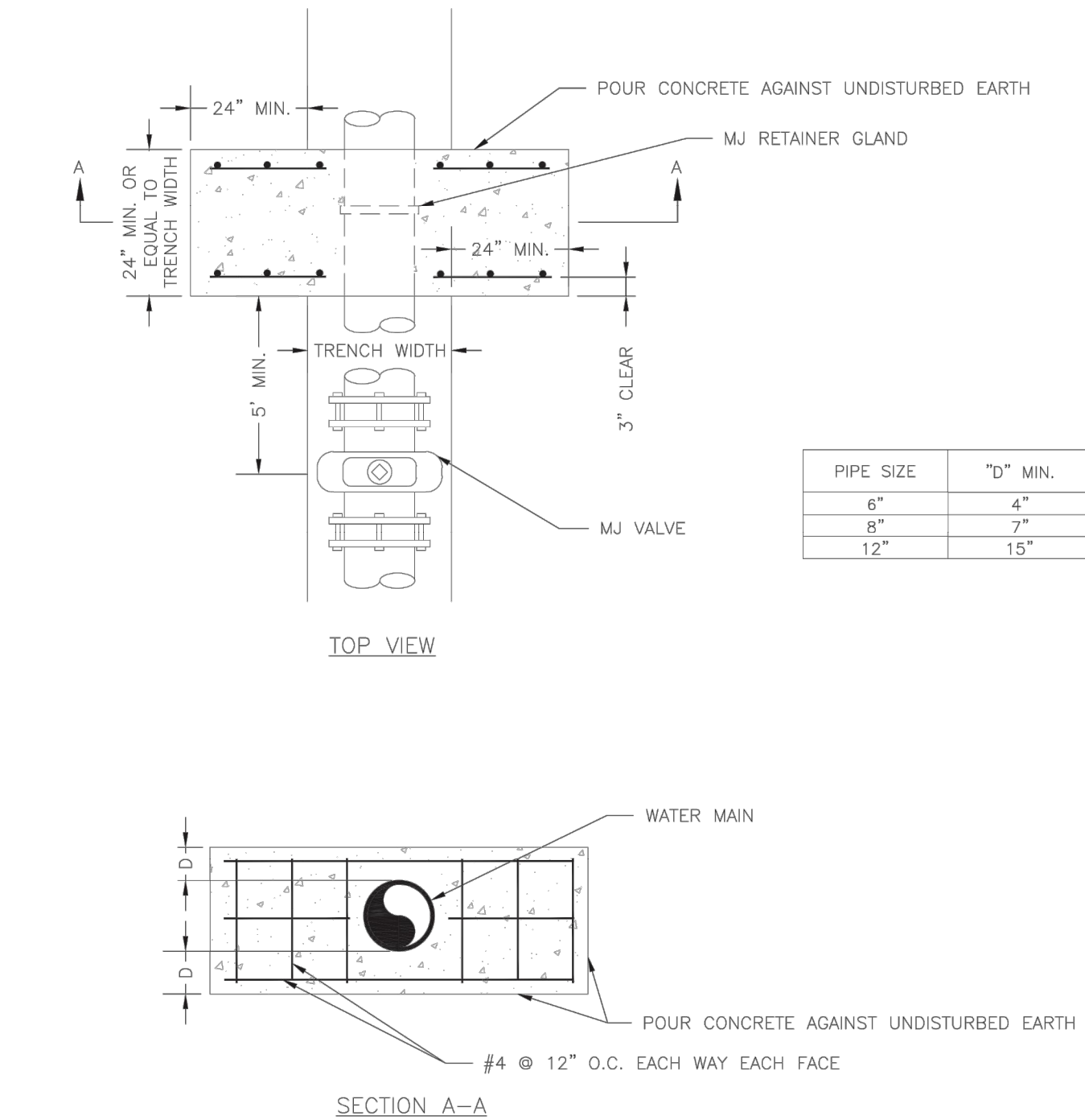


- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
 5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

LS	LEE'S SUMMIT MISSOURI <small>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</small>	Date: 01/2016 Drawn By: JN Checked By: DL
	HYDRANT - STRAIGHT SET	WAT-7

HYDRANT - STRAIGHT SET

NTS

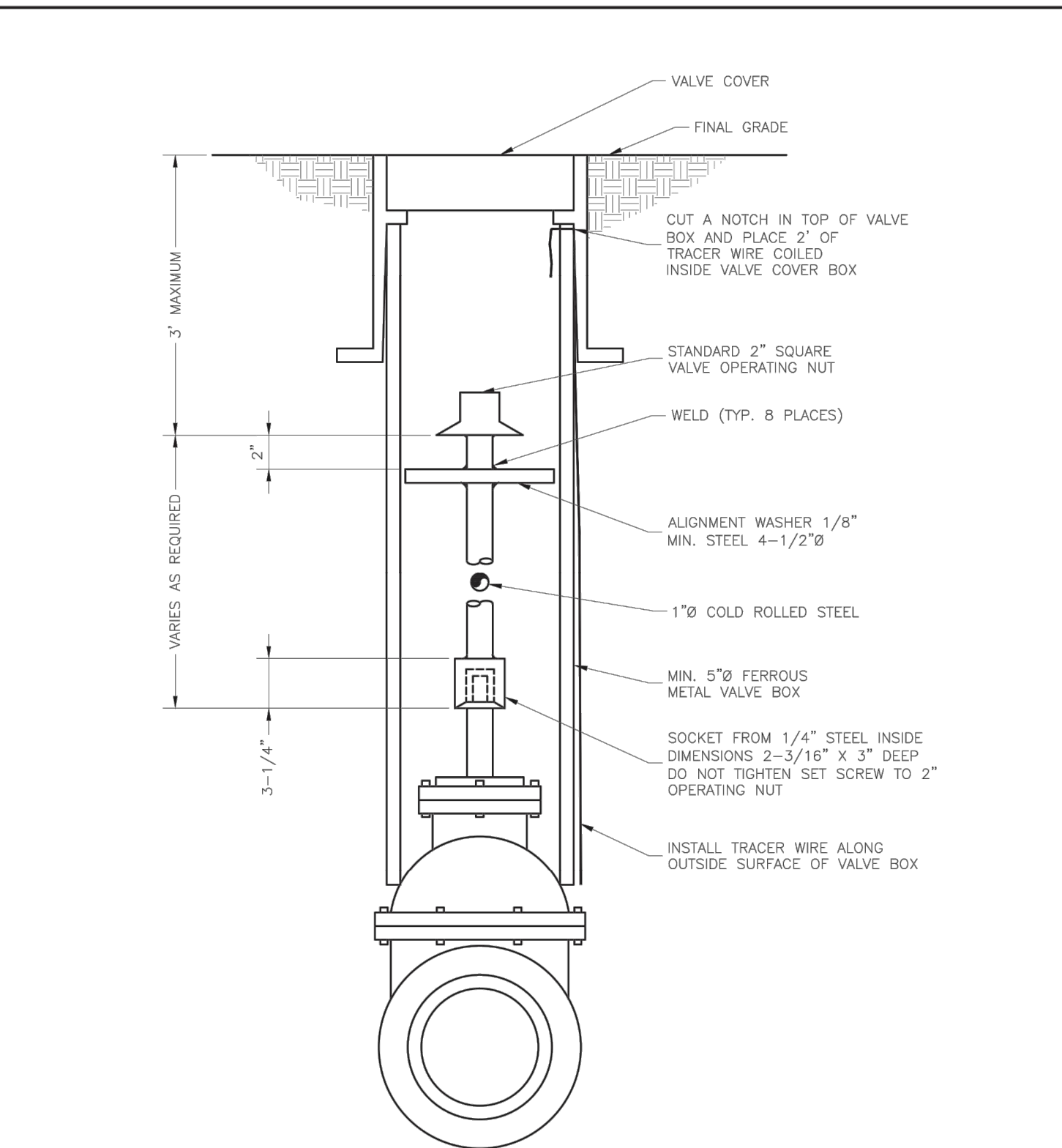


NOTE:
THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"

LS	LEE'S SUMMIT MISSOURI <small>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</small>	Date: 01/2016 Drawn By: JN Checked By: DL
	STRADDLE BLOCK	WAT-3

STRADDLE BLOCK

NTS



LS	LEE'S SUMMIT MISSOURI <small>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</small>	Date: 01/2016 Drawn By: JN Checked By: DL
	VALVE STEM EXTENSION AND VALVE BOX	WAT-9

VALVE STEM EXTENSION & VALVE BOX

NTS

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MISSOURI LANDSCAPE COA #000008
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MISSOURI COA #001644
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LEE'S SUMMIT, MO, 64086
(816) 444-3144 PHONE

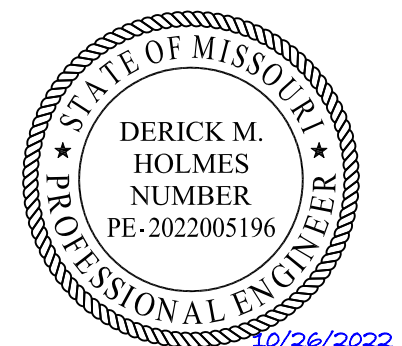
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HOSS & BROWN ENGINEERS
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FIRE STATION #5
CITY OF LEE'S SUMMIT

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LEE'S SUMMIT, MISSOURI 64082

#	Description	Date
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MO# PE-2022005196

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PROJECT NO: 18225R21001
DATE: 10.26.2022
DRAWN BY: SJB
CHKD BY: DMH

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**WATER
DETAILS**

C-520

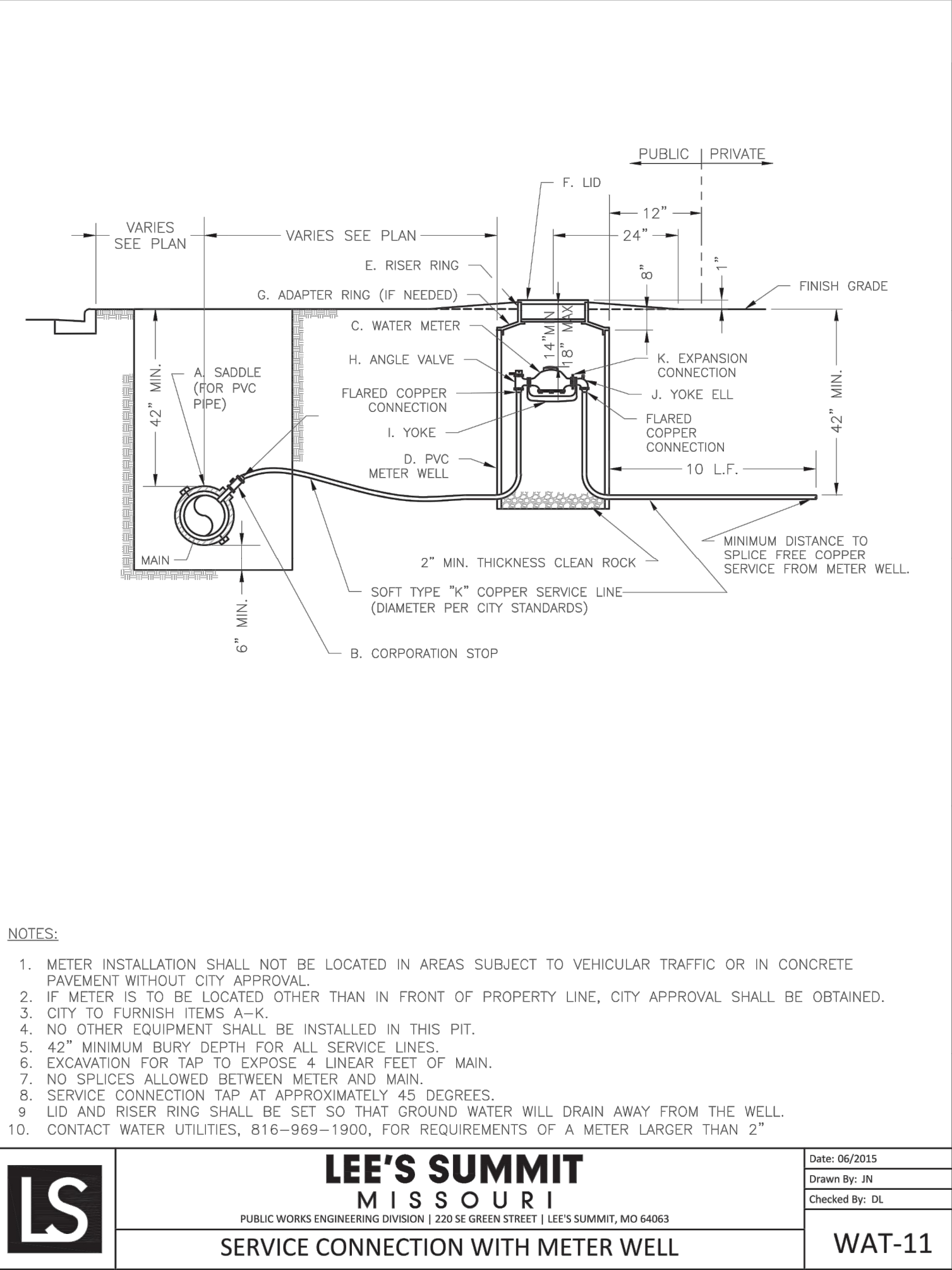
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D

C


B

A



1 SERVICE CONNECTION WITH METER WELL

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WATER DETAILS

C-521

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Section 2721

Engineered Surface Drainage Products

GENERAL

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.


MATERIALS

The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

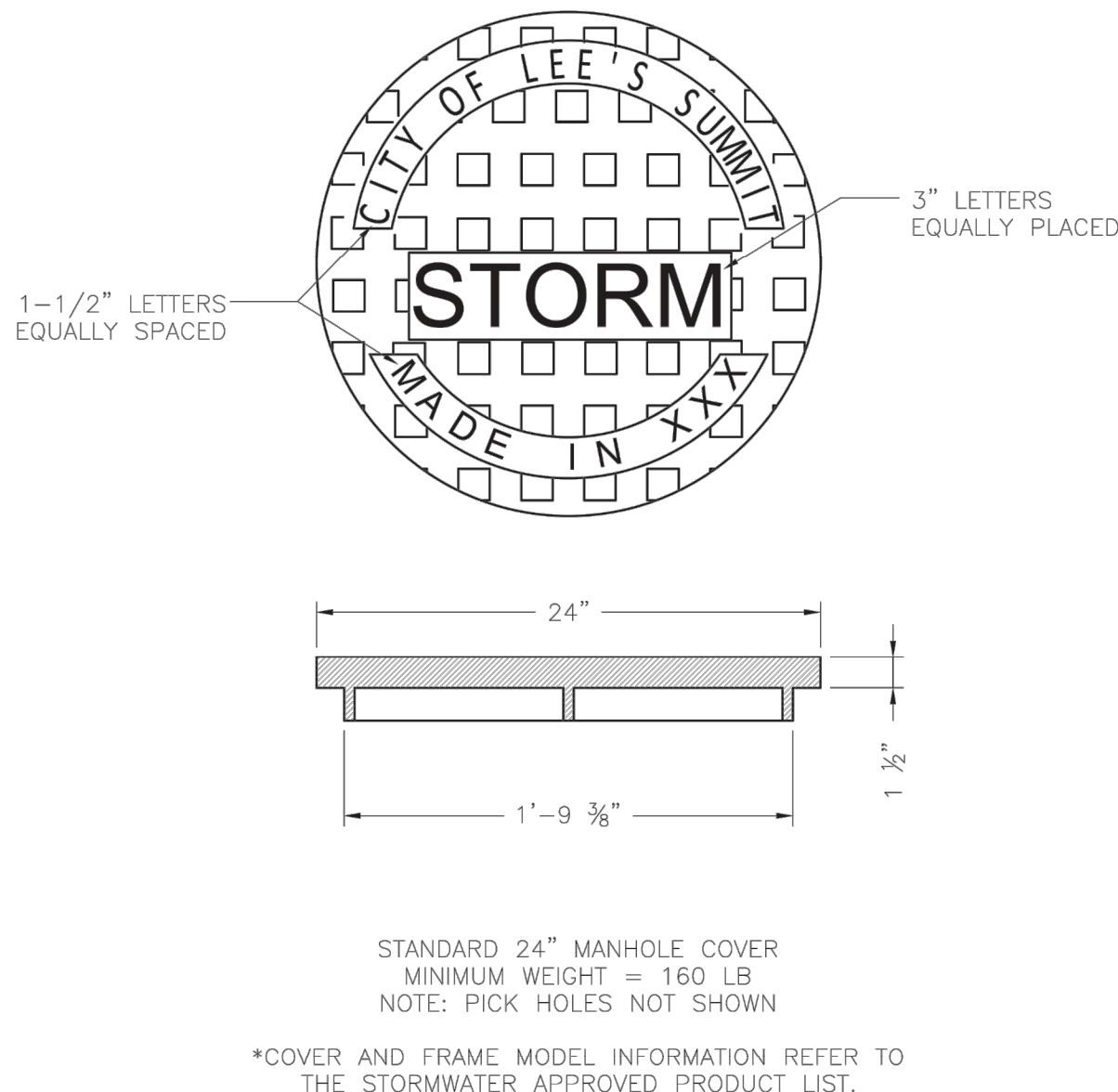
INSTALLATION

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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	DATE: 3-10-00		
	REVISED BY: NMH	PROJECT NO./NAME:	
	DATE: 02-21-16	TITLE:	
DWG SIZE: A	SCALE: 1:1	SHEET: 1 OF 1	DWG NO.: 7001-110-011 REV: J

1 8 IN - 36 IN DRAIN BASIN SPECIFICATIONS

NTS

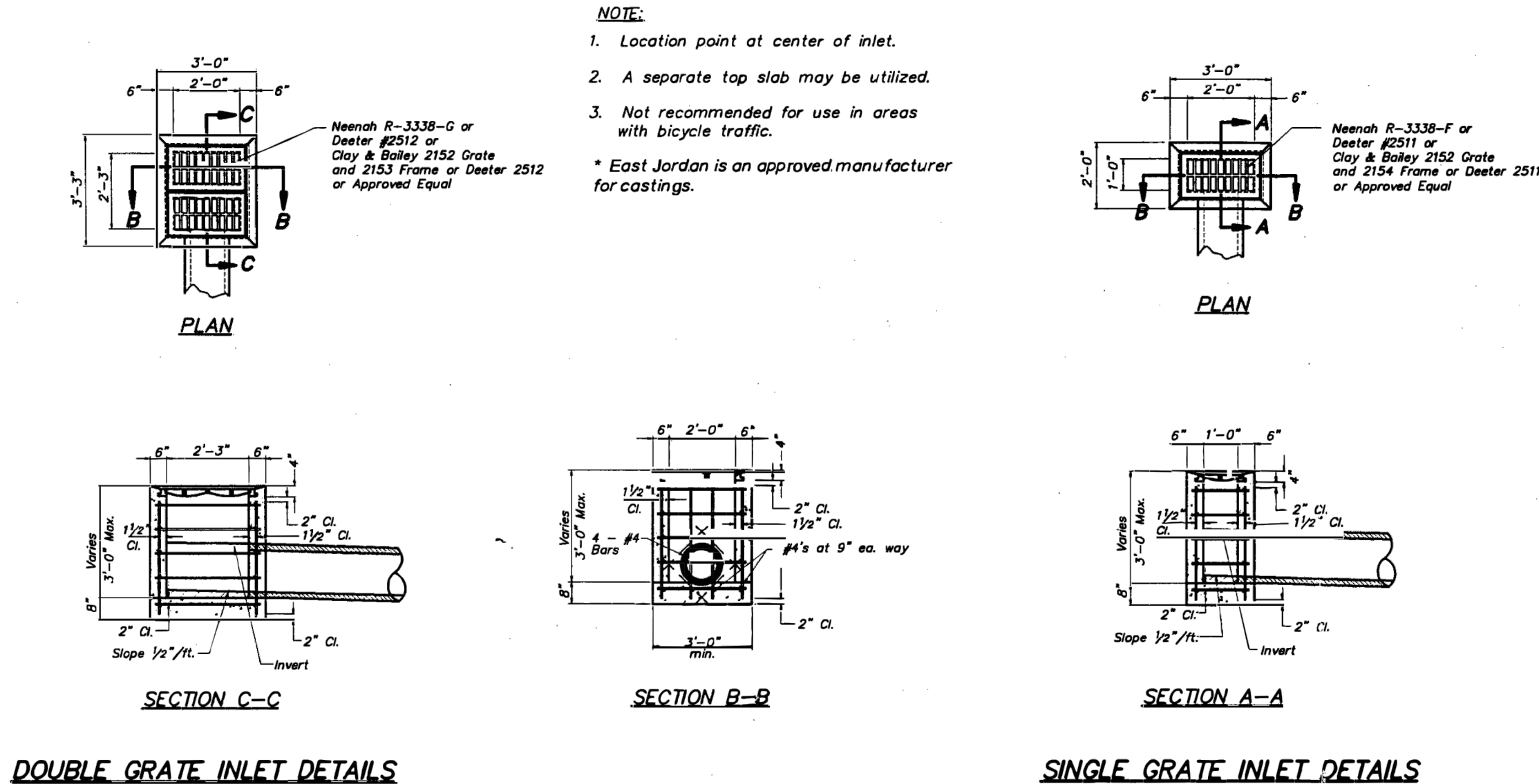



3 STORM MANHOLE COVER DETAIL

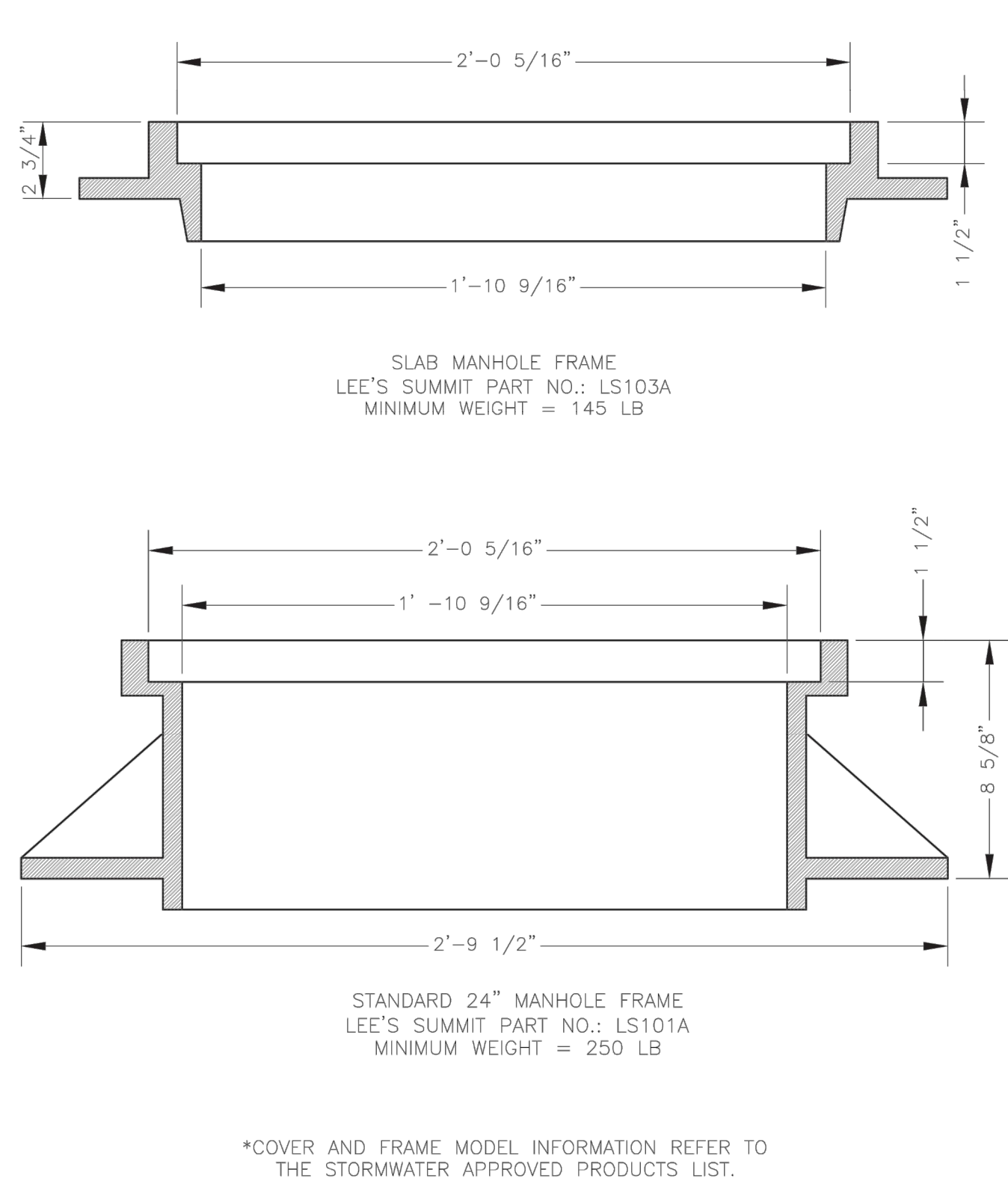
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2 GRATE INLET DETAIL

NTS



AMERICAN PUBLIC WORKS ASSOCIATION	
	
GRATE INLET DETAILS	
KANSAS CITY METROPOLITAN CHAPTER	
STANDARD DRAWING NUMBER G-1	
ADOPTED: APRIL 17, 1996	



4 STORM MANHOLE FRAME DETAIL

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#	Description	Date
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STORMWATER
DETAILS

C-530

1

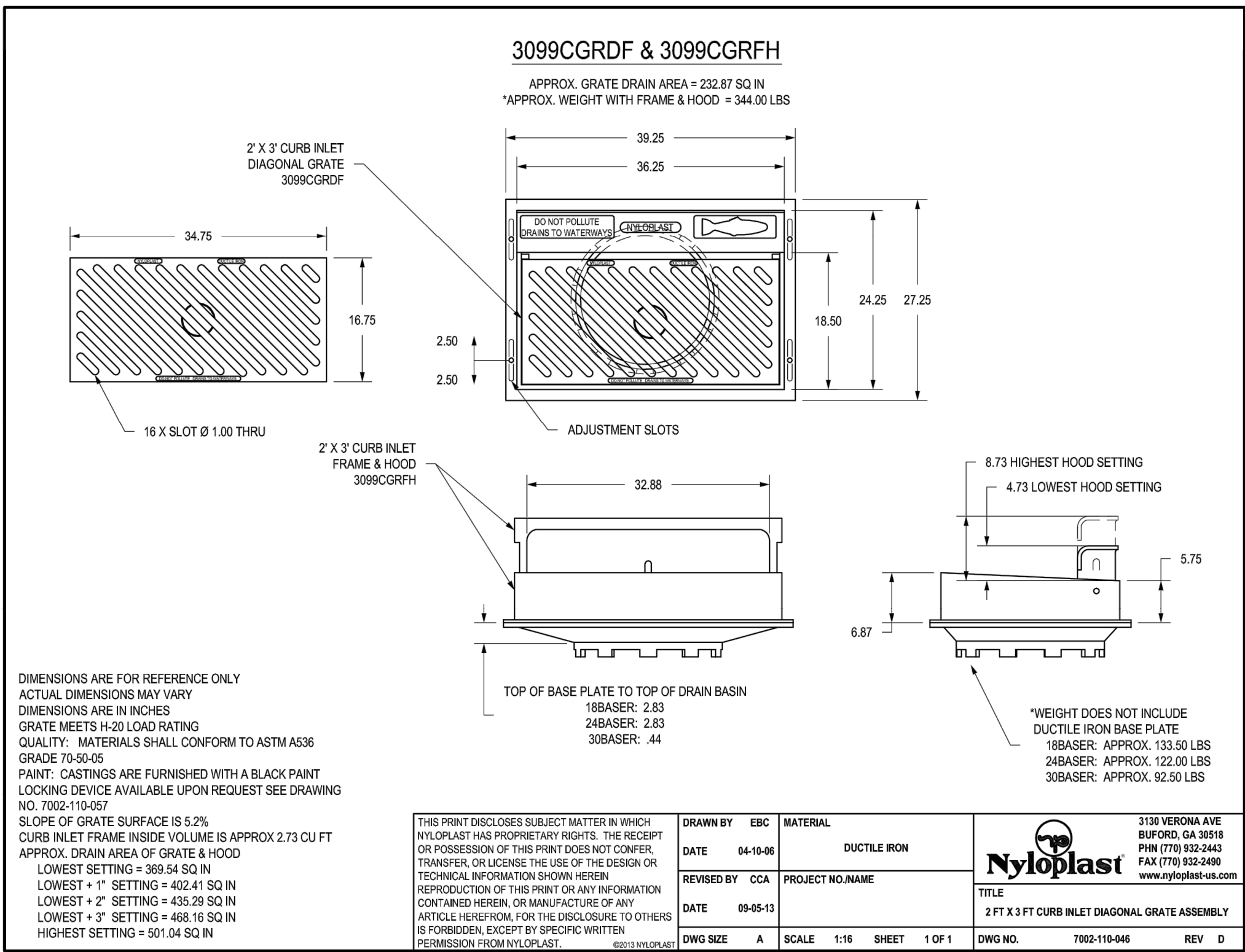
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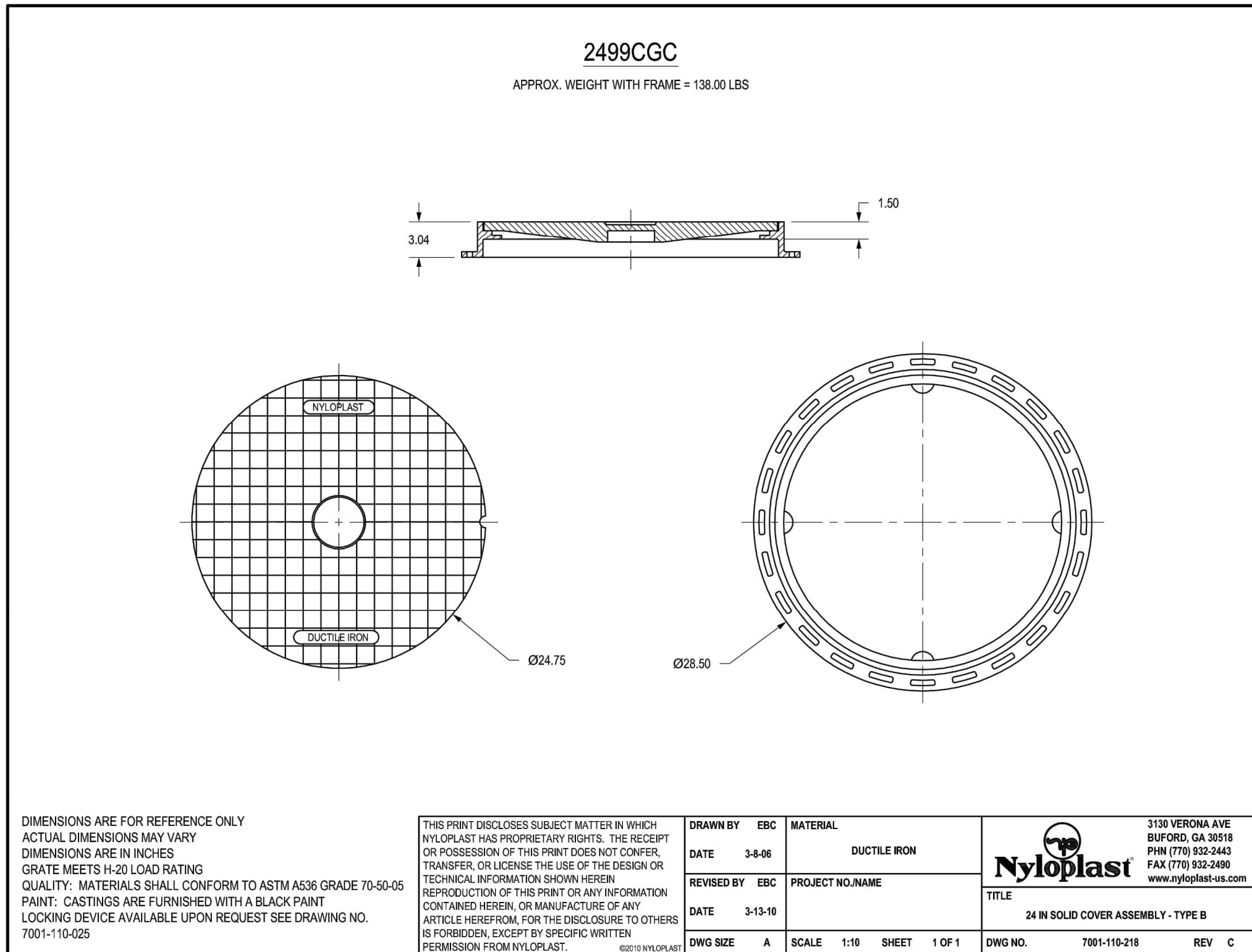


C

1 2'x3' CURB INLET DIAGONAL GRATE ASSEMBLY

NTS

B

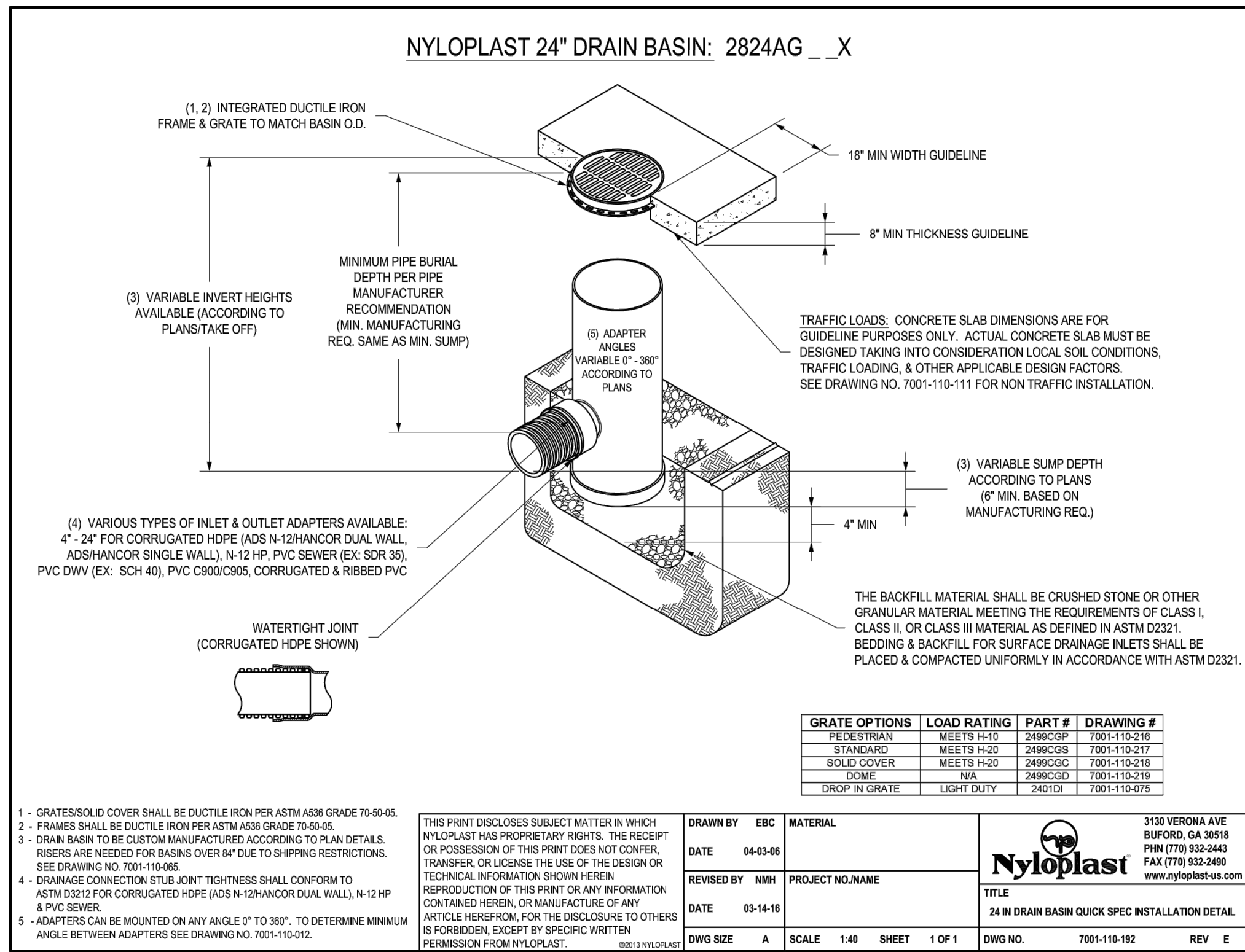


A

4 24" SOLID COVER ASSEMBLY - TYPE B

NTS

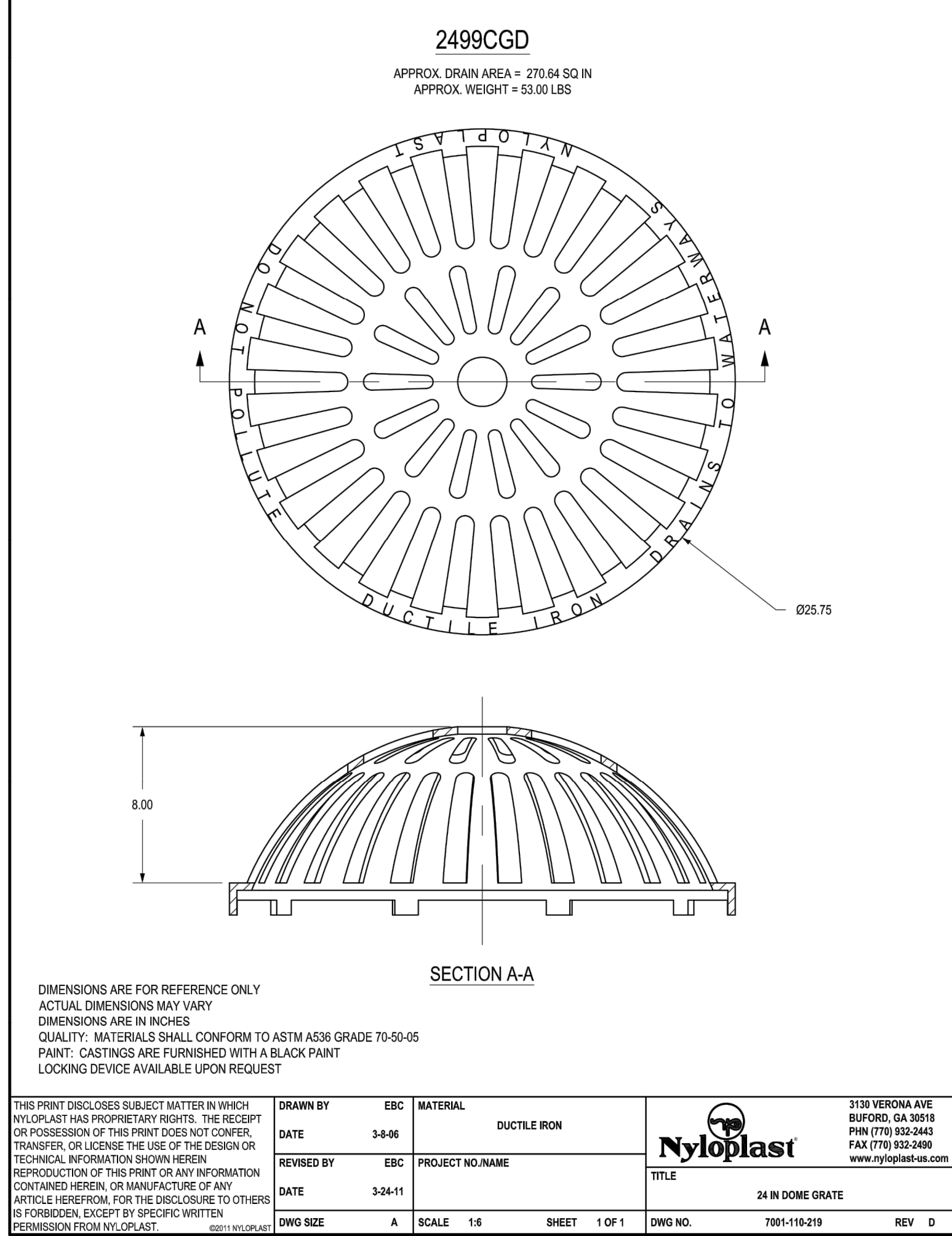
2



2 24" DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

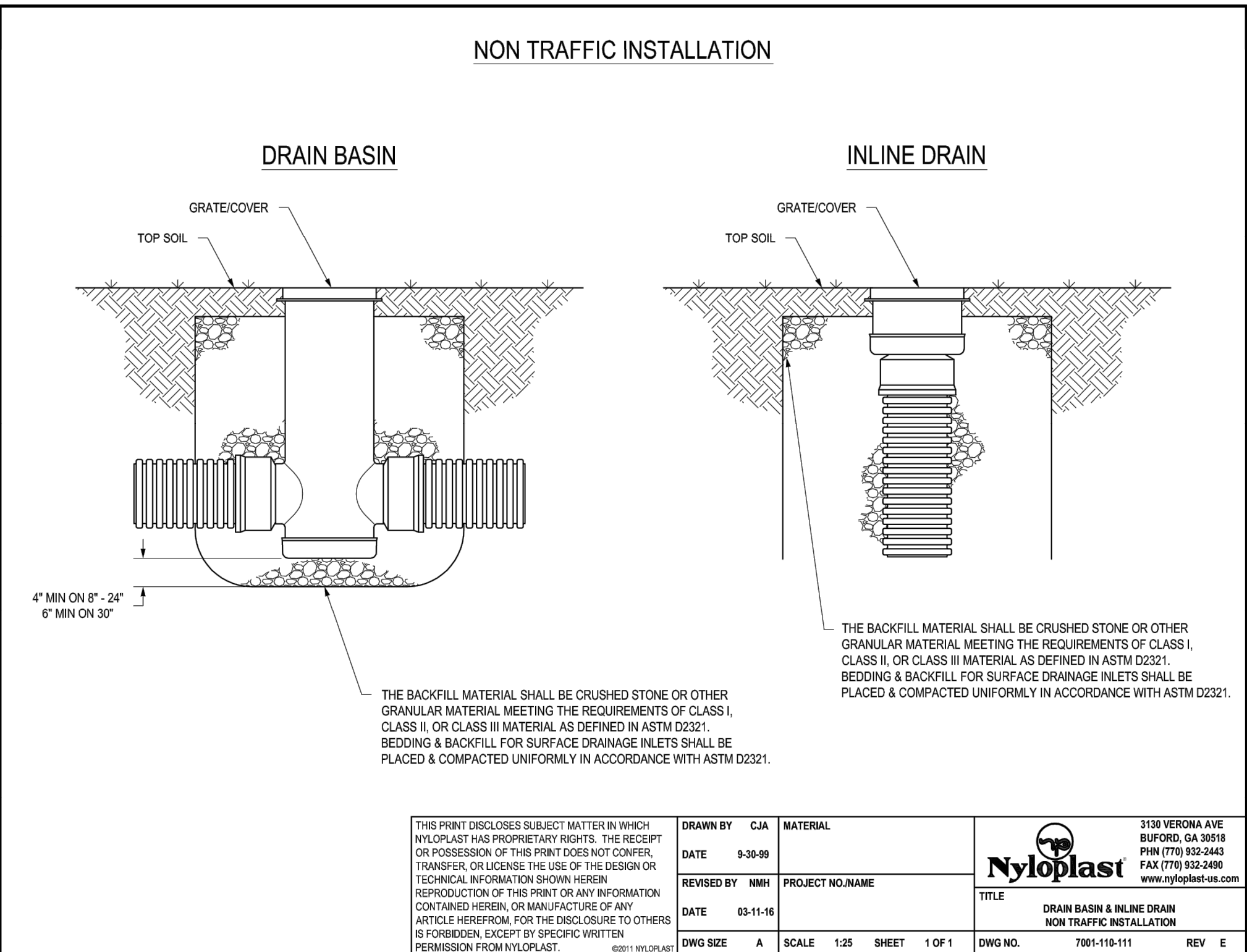
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4



3 24" DOME GRATE

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5 DRAIN BASIN & INLINE DRAIN NON-TRAFFIC INSTALLATION

NTS

5



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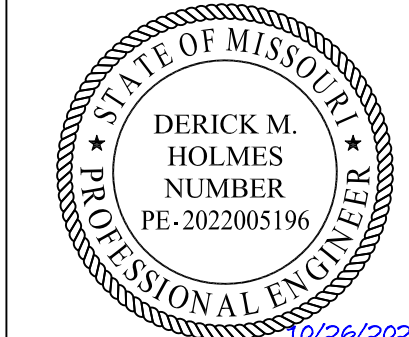
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STORMWATER DETAILS

C-531

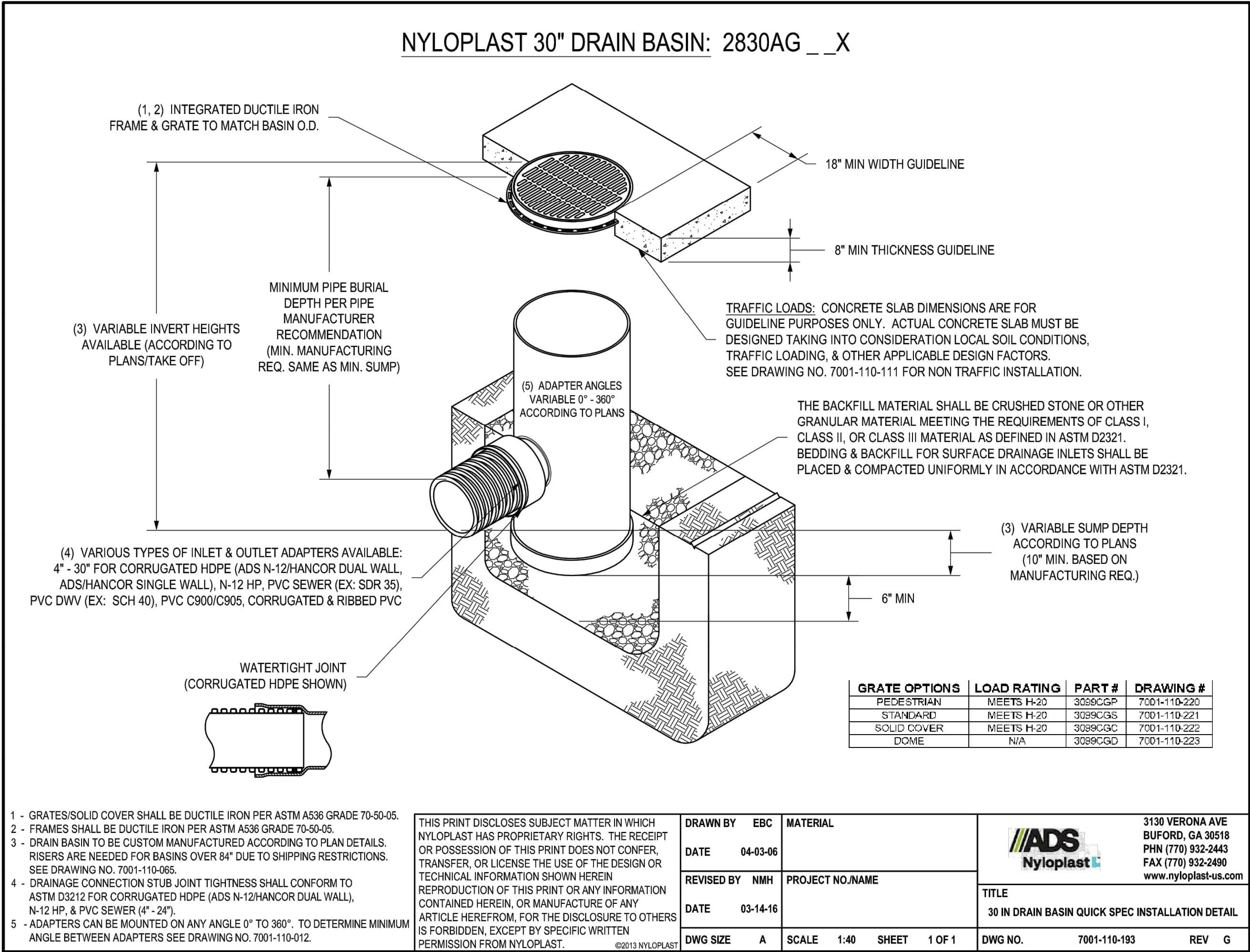
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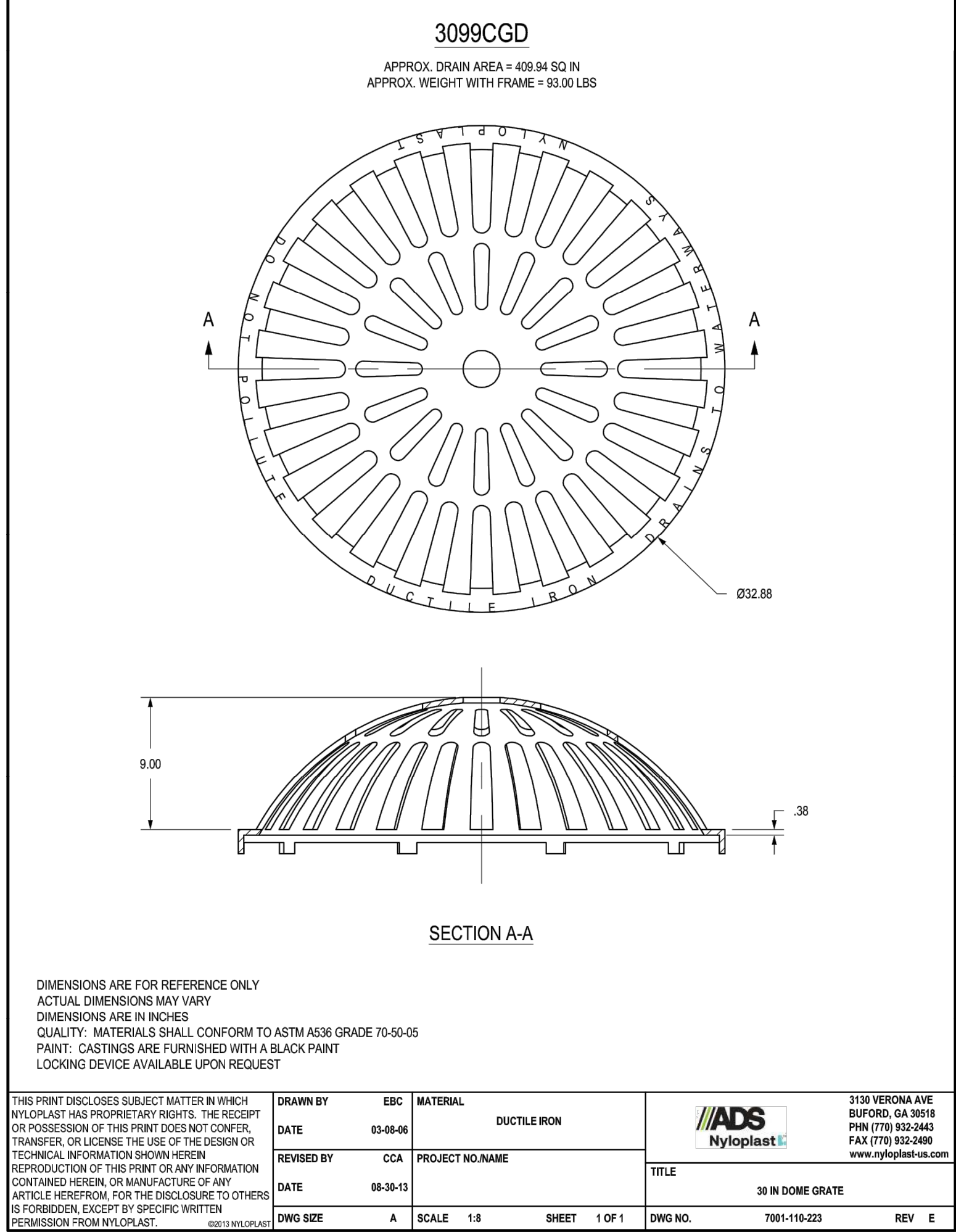
B

A



1 30" DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

NTS



2 30" DOME GRATE

NTS

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DATE:	10.26.2022
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CHKD BY:	DMH

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**STORMWATER
DETAILS**

C-532

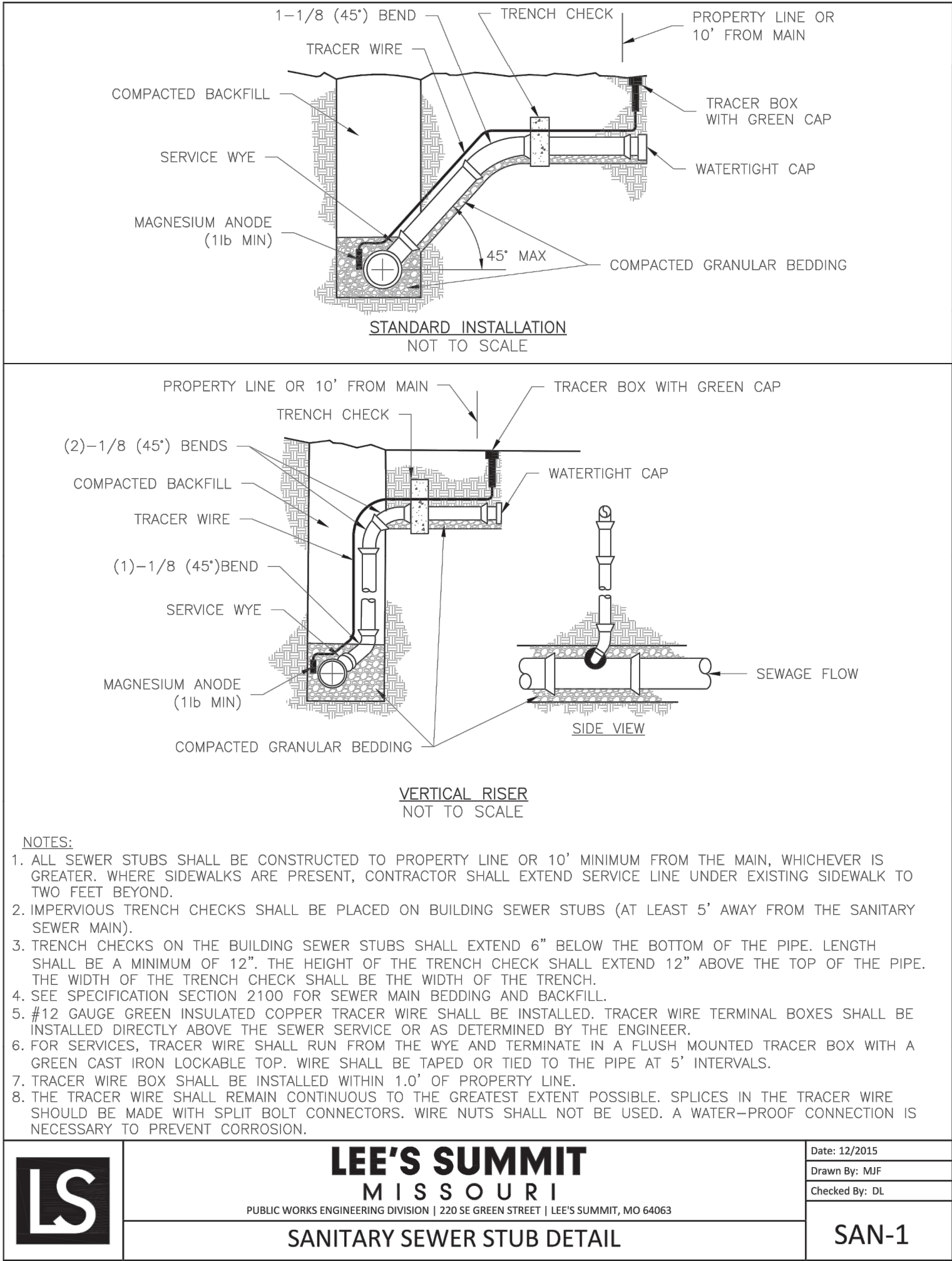
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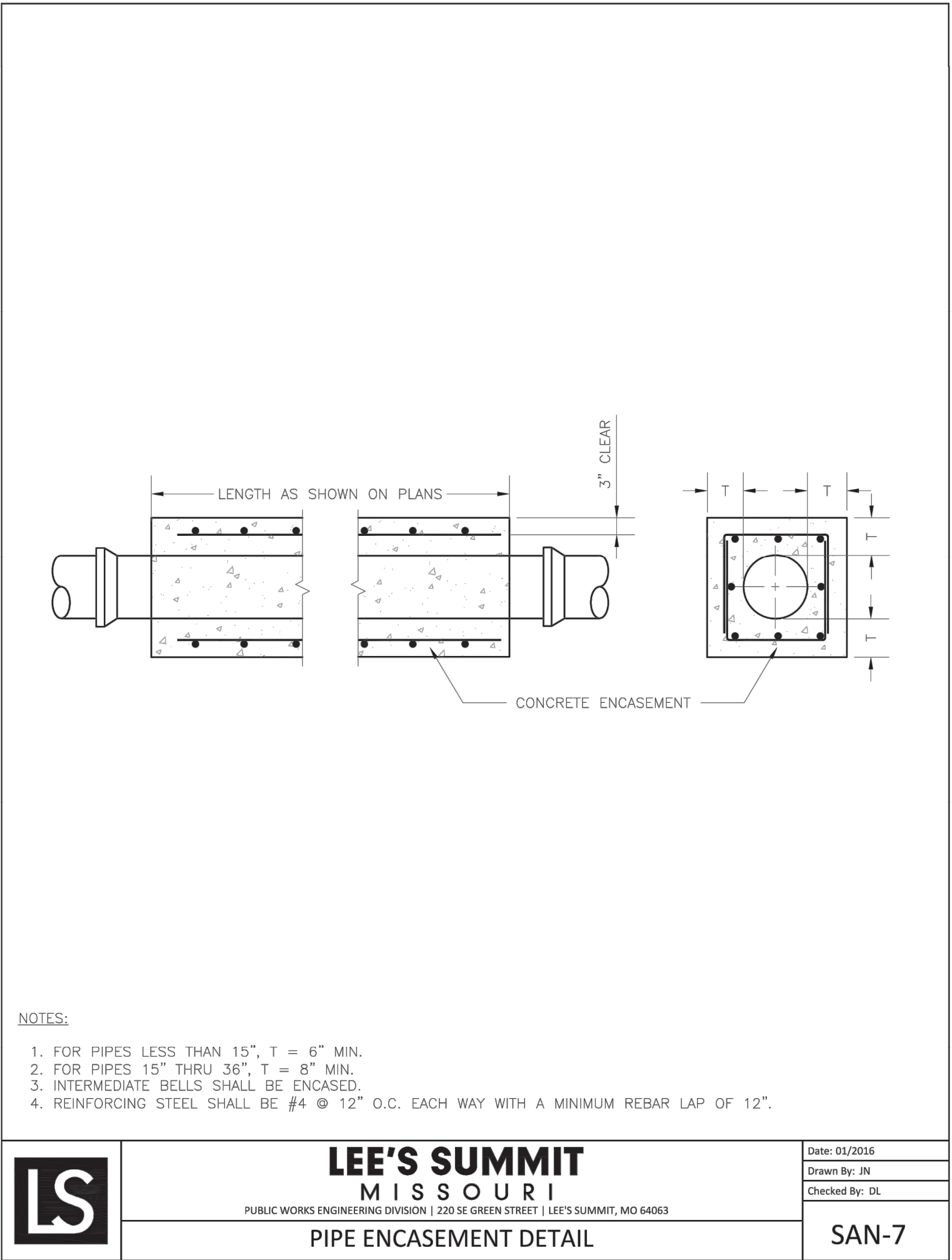
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B

A



1 **SANITARY SEWER STUB**
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2 **PIPE ENCASEMENT**
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C-540



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E

D

C

B

A

1.

ALL WORK SHALL CONFORM TO 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEES SUMMIT, MISSOURI.
2.

A.

DESIGN LOADS

1.

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

C

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. 5-307

8.

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

REF. 5-307

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.

8.

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.

9.

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.

L.

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.
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.
- | HATCH PATTERN KEY | |
|-------------------|--------------------------------|
| | = CONCRETE IN SECTION |
| | = EARTH IN SECTION |
| | = EPOXY IN SECTION |
| | = EXISTING IN PLAN AND SECTION |
| | = GRANULAR FILL IN SECTION |
| | = GRATING IN PLAN AND SECTION |
| | = GROUT IN SECTION |
| | = INSULATION IN SECTION |
| | = OPENINGS IN PLAN |
| | = PLYWOOD IN SECTION |
| | = SNOW DRIFT LOADING IN PLAN |
| | = STEEL IN SECTION |
| | = TOPPING IN SECTION |
| | = WOOD END GRAIN IN SECTION |
| | = WOOD FACE GRAIN IN SECTION |
- STANDARD ABBREVIATIONS
- | | |
|--------|------------------------|
| ALT. | ALTERNATE |
| A.B. | ANCHOR BOLT |
| ARCH. | ARCHITECT |
| @ | AT |
| BM. | BEAM |
| BOT. | BOTTOM |
| B.O. | BOTTOM OF |
| BLDG. | BUILDING |
| CL. | CENTER LINE |
| CLR. | CLEAR |
| COL. | COLUMN |
| CONC. | CONCRETE |
| CONN. | CONNECTION |
| CONT. | CONTINUOUS |
| C.J. | CONTROL JOINT |
| DET. | DETAIL |
| DIA. | DIAMETER |
| DIM. | DIMENSION |
| DWG(S) | DRAWING(S) |
| EA | EACH |
| ELEV. | ELEVATION |
| 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

REVISIONS:		
#	Description	Date

PROJECT NO:

18225R21001

DATE:

10.27.2022

DRAWN BY:

JMB

CHKD BY:

WNH

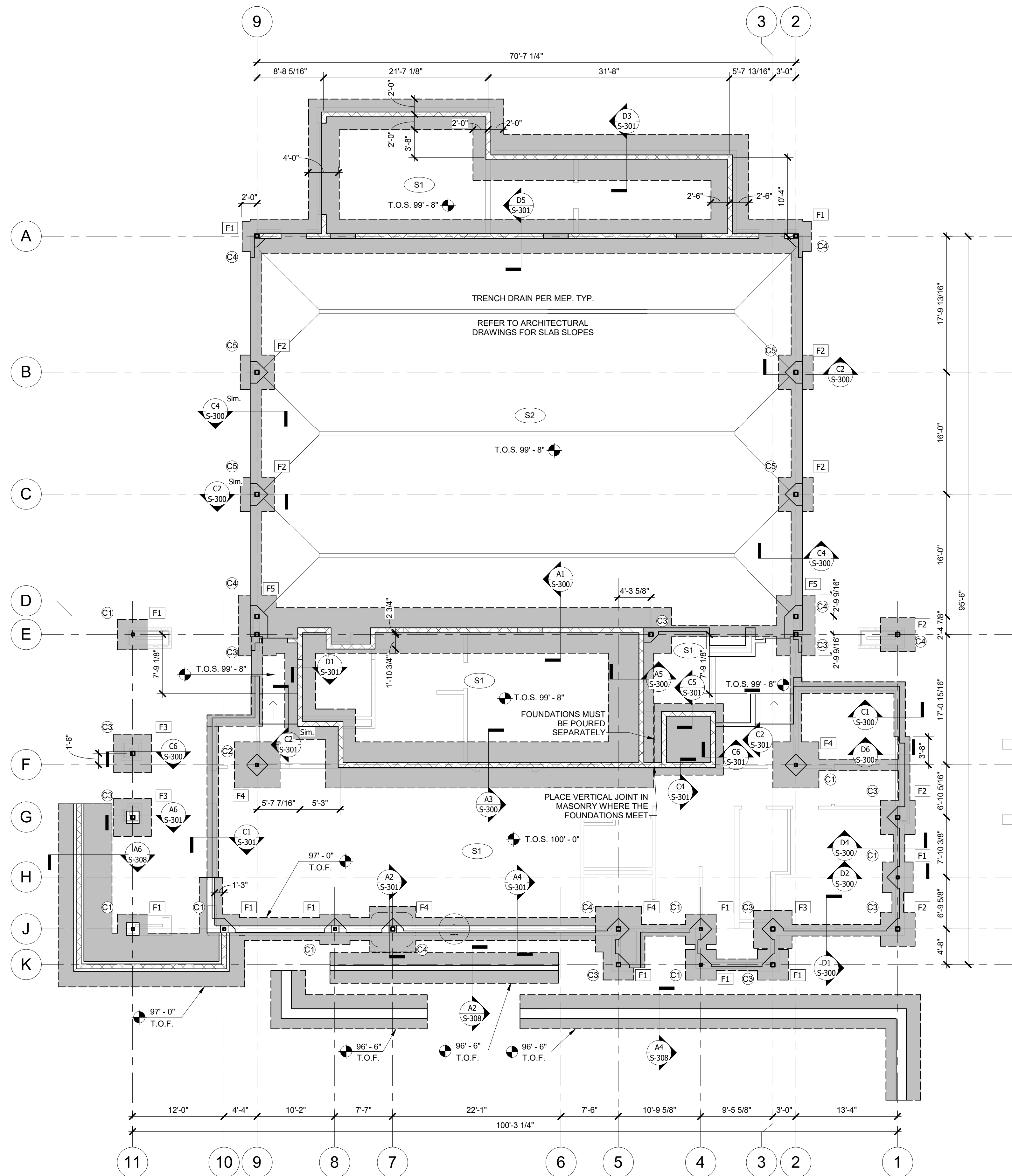
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GENERAL NOTES

S-001

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

FOUNDATION PLAN NOTES:

1. TOP OF CONCRETE SLAB ELEVATION = 100'-0" U.N.O.
2. SLAB REINFORCEMENT PER SCHEDULE
3. SLAB CONTROL AND CONSTRUCTION JOINTS PER TYPICAL DETAILS. CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR CONTROL JOINTS AT THE CONTRACTOR'S DISCRETION.
4. ISOLATION JOINTS PER DETAIL 11/S-402
5. FOOTING STEPS PER DETAIL 13/S-402
6. CONTRACTOR TO COORDINATE ALL FLOOR AND SLAB PENETRATIONS WITH ALL OTHER DISCIPLINES.
7. DURING INSTALLATION OF ALL POST CONSTRUCTION ANCHORS, CARE MUST BE TAKEN TO AVOID ALL REINFORCING.
8. REFER TO ARCHITECTURAL FOR NON-LOAD BEARING WALL LOCATIONS.
9. REFER TO ARCHITECTURAL 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.



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FIRE STATION #5

CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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10.26.22

PROJECT NO: 18225R21001

DATE: 10.27.2022

DRAWN BY: JMB

CHKD BY: WNH

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**FOUNDATION
PLAN**

S-100

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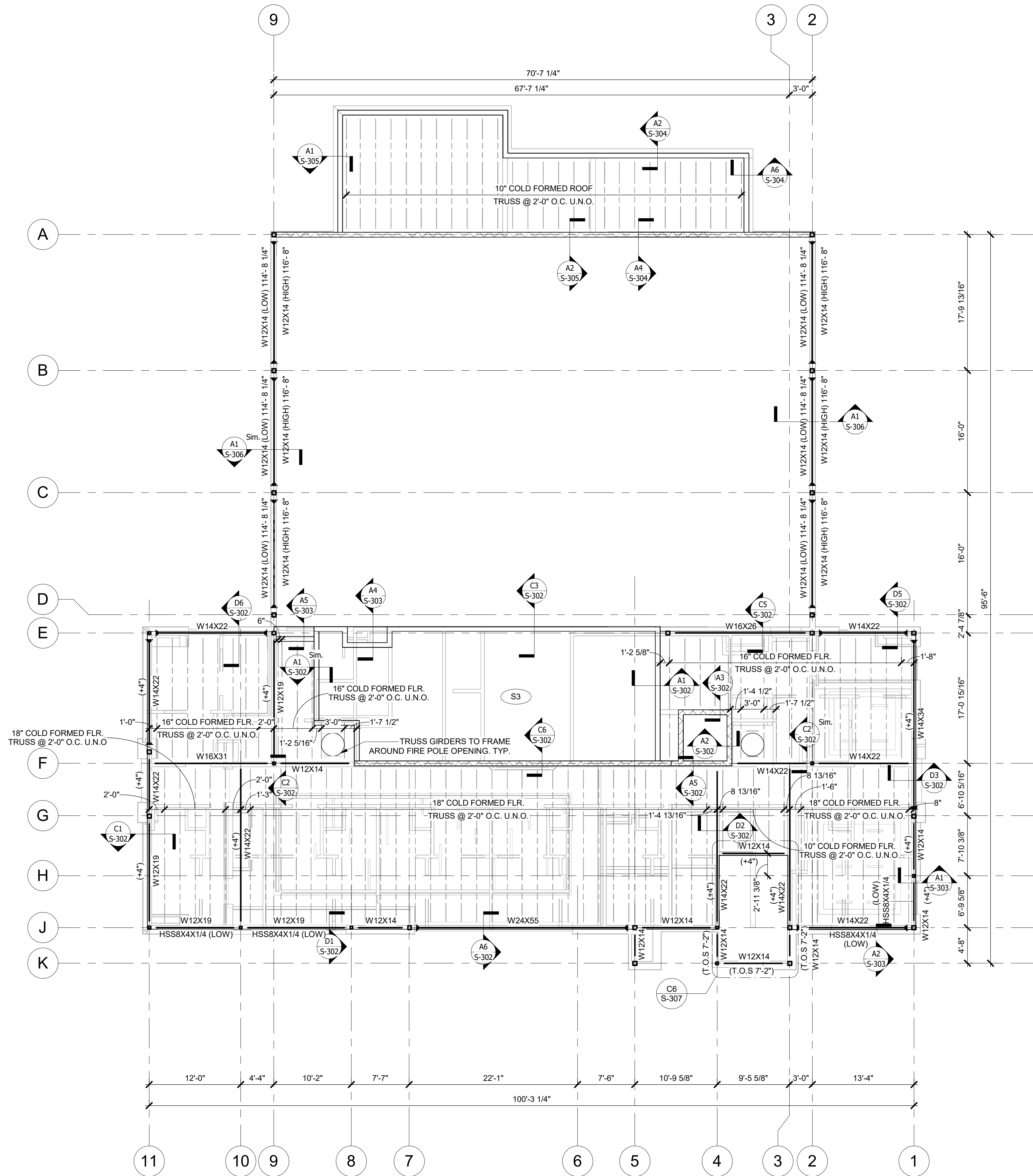
E

D

C

B

A



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

ROOF FRAMING PLAN NOTES:

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

FLOOR FRAMING PLAN NOTES:

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

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



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FIRE STATION #5
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DATE: 10.27.2022

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CHKD BY: WNH

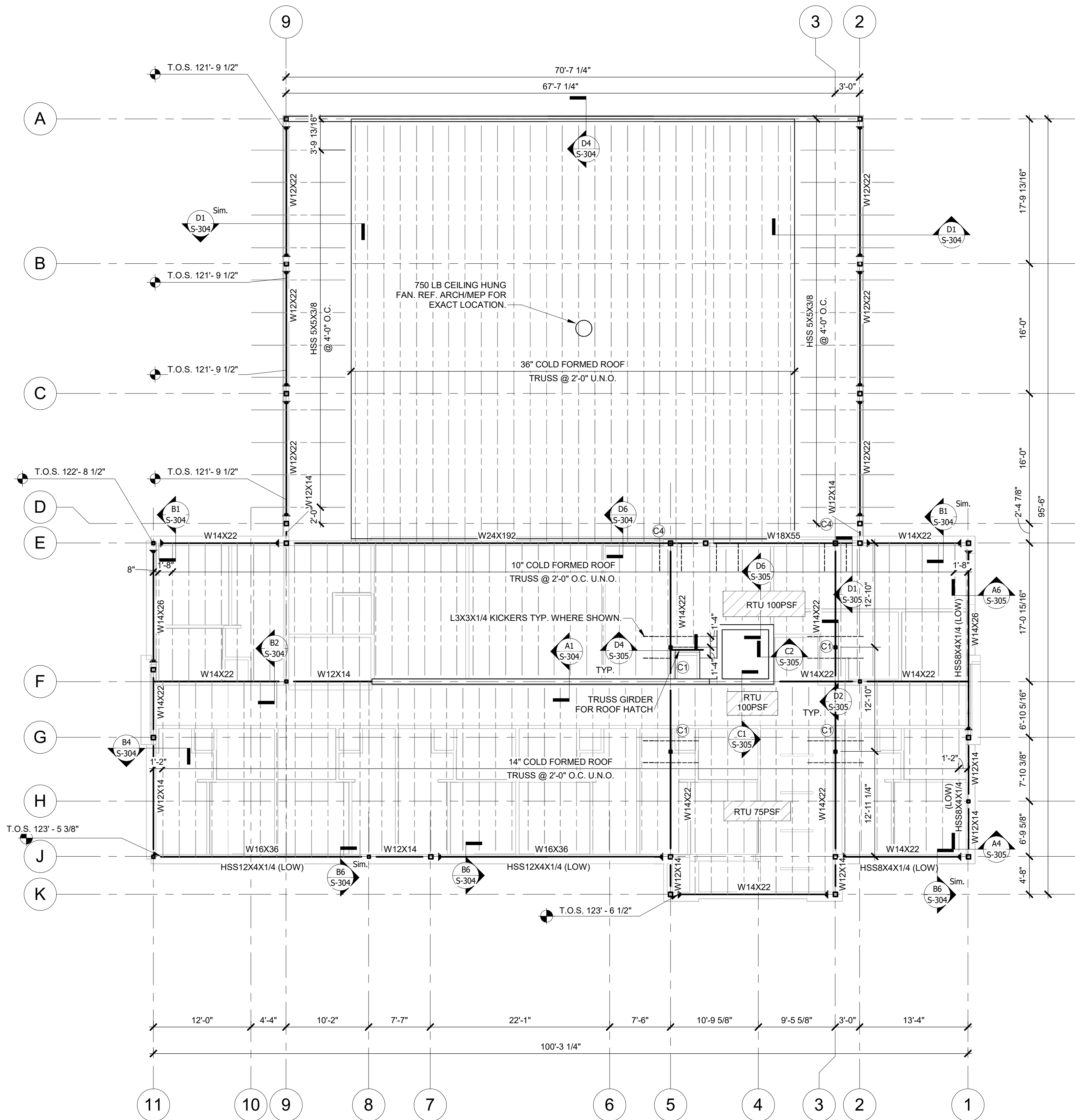
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LEVEL 2
FRAMING PLAN

S-101

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ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.5B 20 GA. DECK FASTENED IN A 36/4 PATTERN USING # 10 SCREWS
2. OPENINGS IN THE ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
3. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE PLANS.
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5. COLD FORMED ROOF JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
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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"



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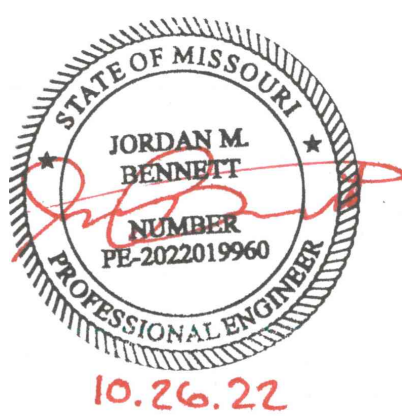
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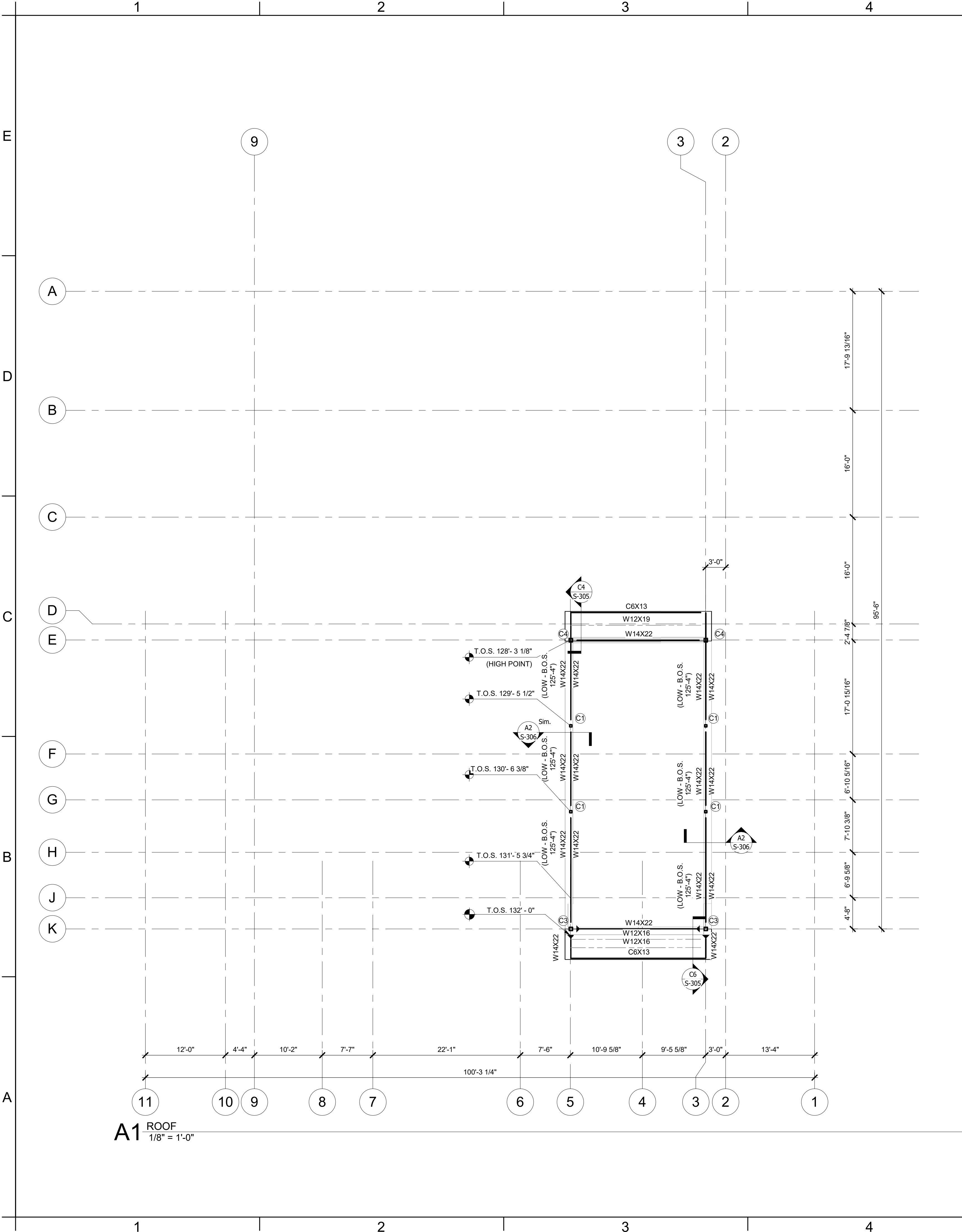
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LOW ROOF
FRAMING PLAN

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ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.58 20 GA. DECK FASTENED IN A 3/4 PATTERN USING # 10 SCREWS
2. OPENINGS IN THE ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
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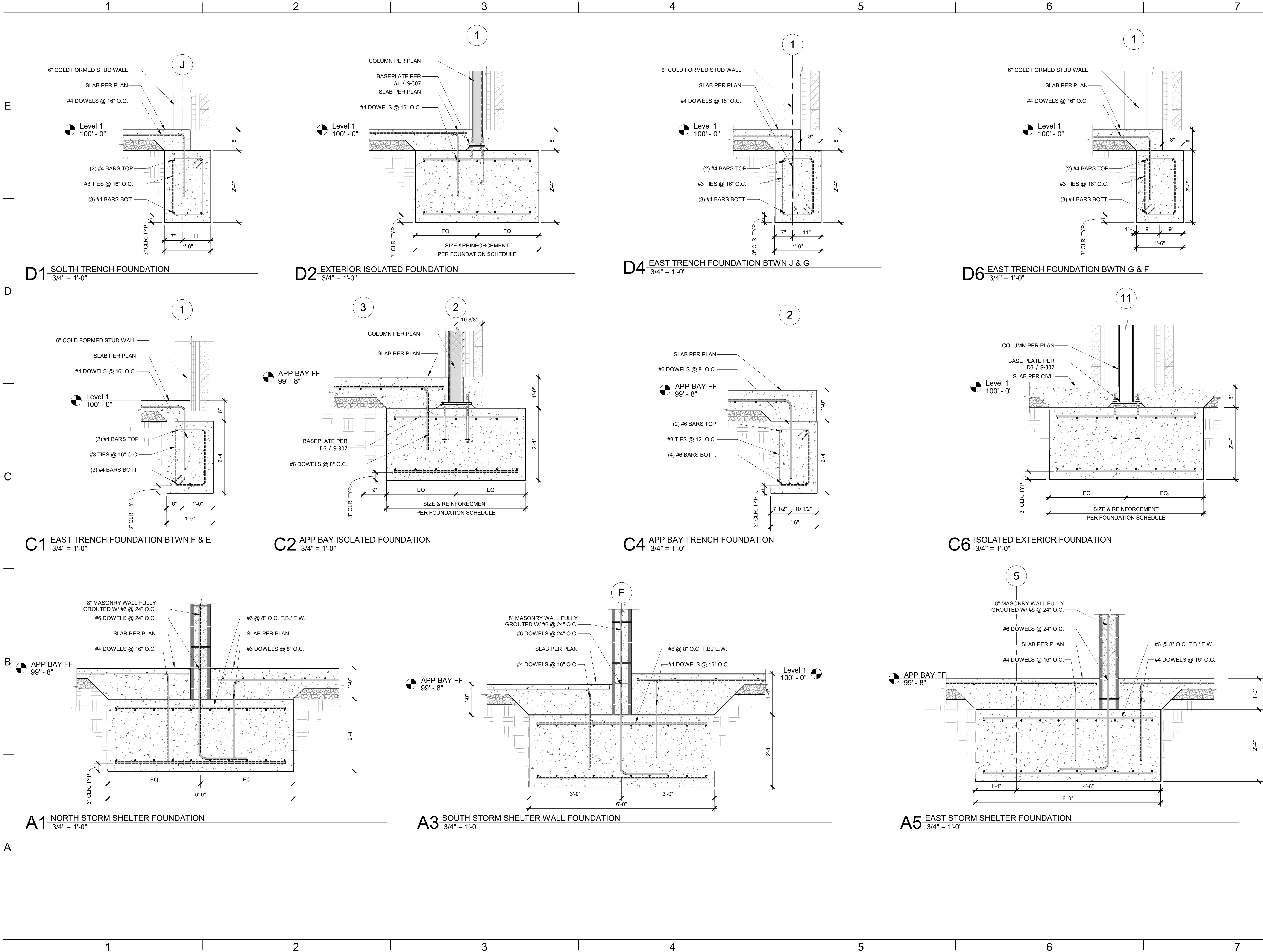
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**HIGH ROOF
FRAMING PLAN**

S-104

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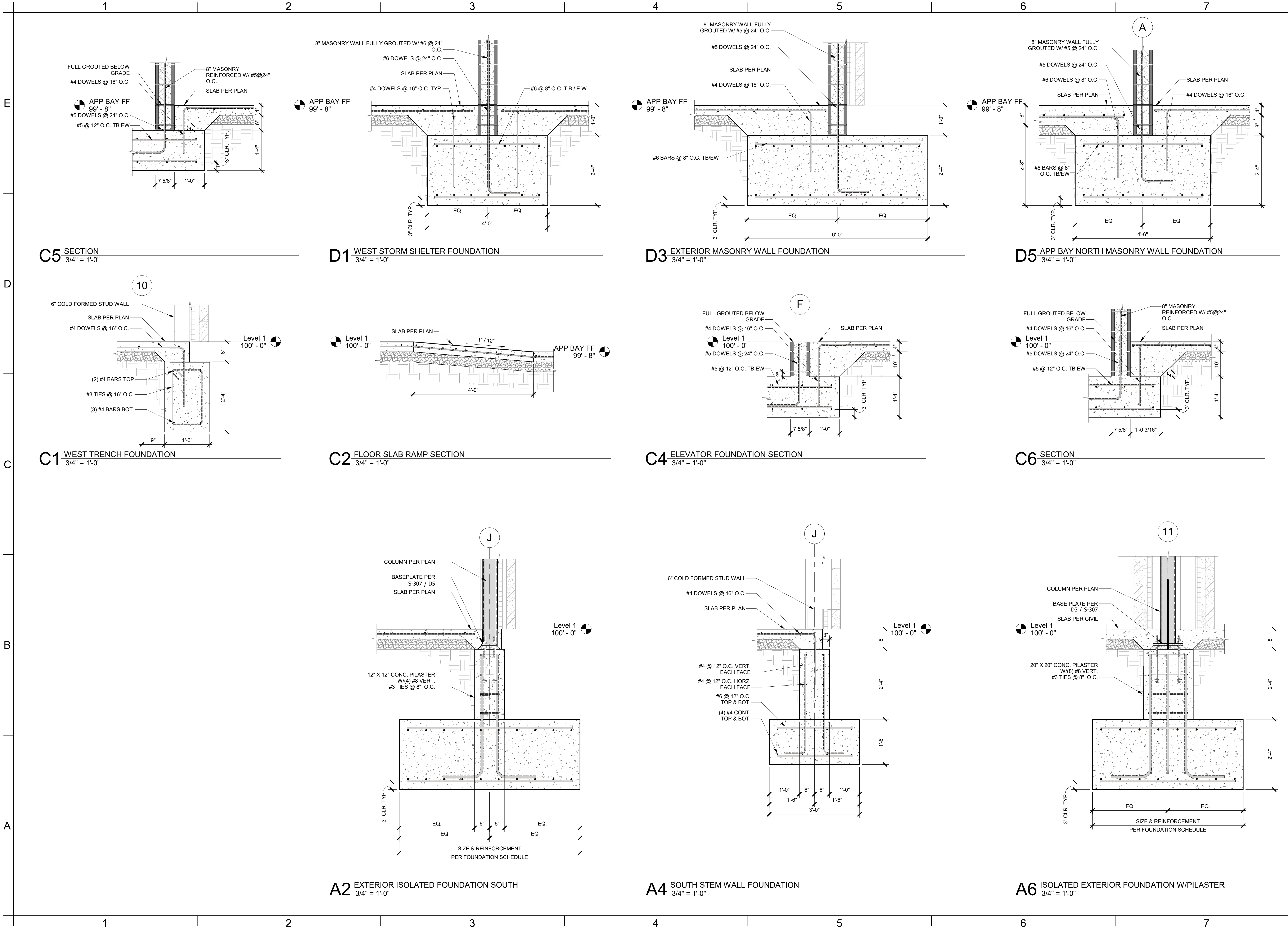
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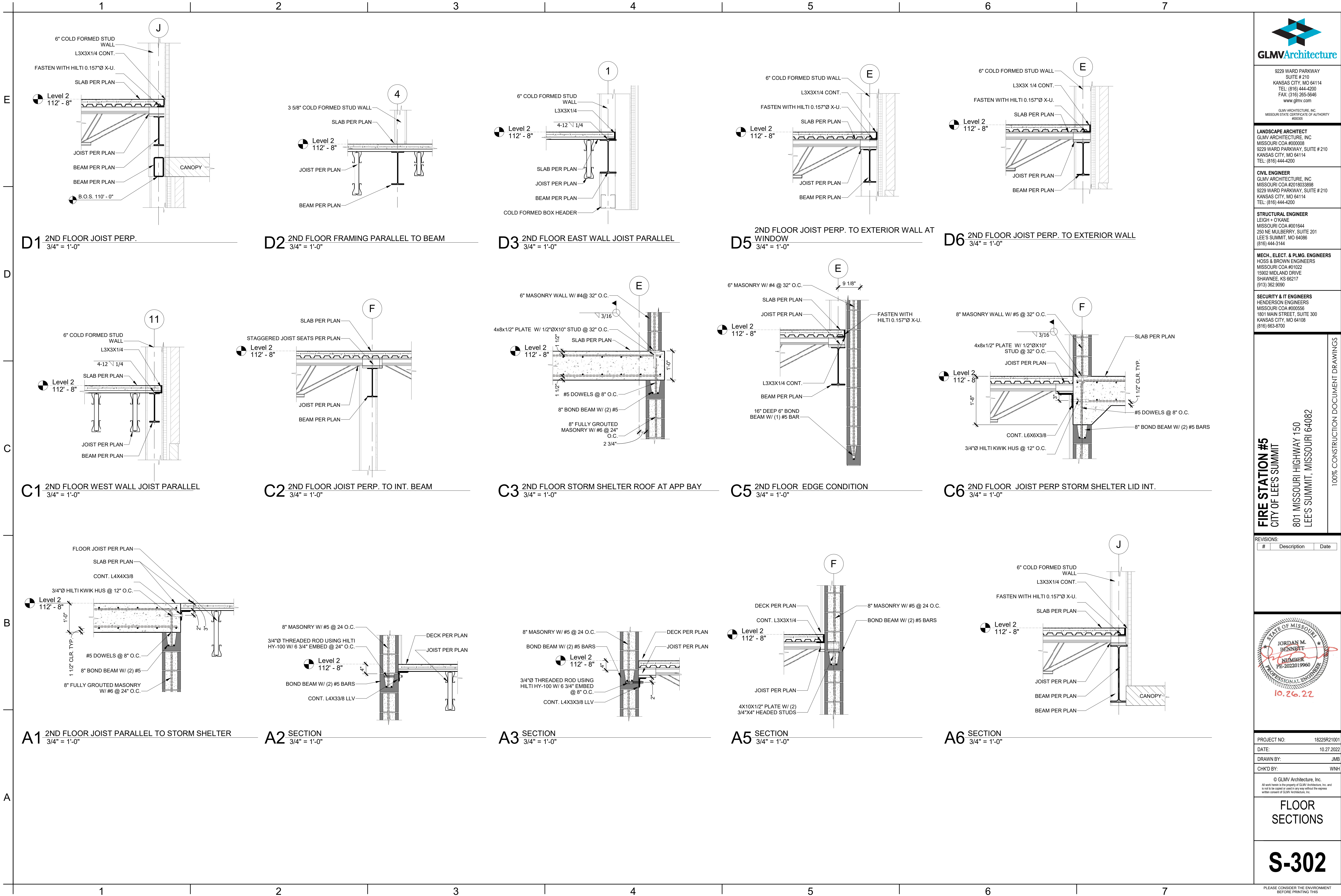
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CITY OF LEE'S SUMMIT

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**FLOOR
SECTIONS**

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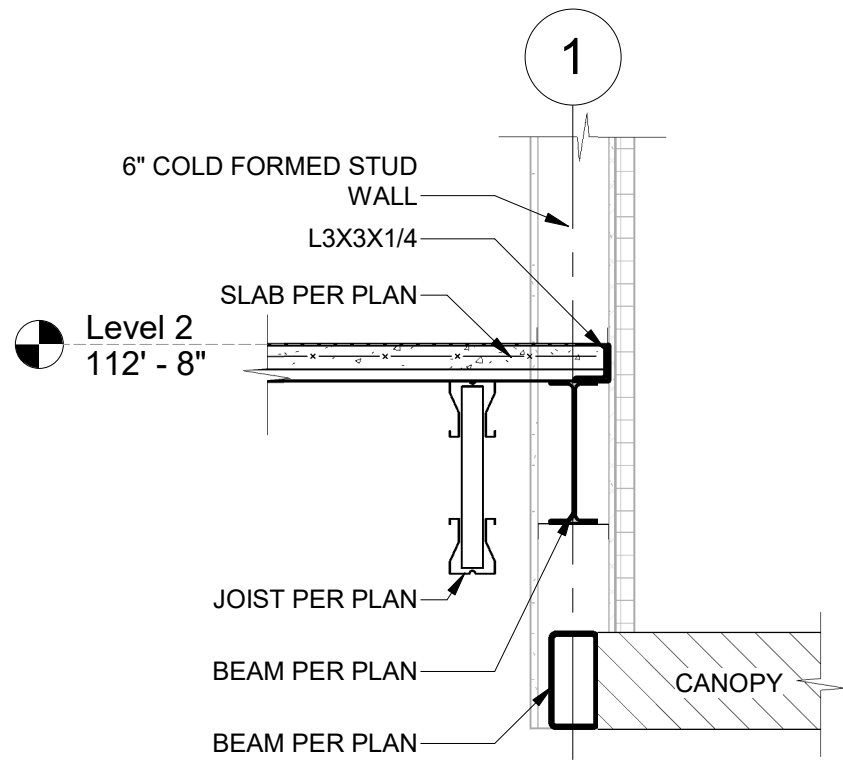
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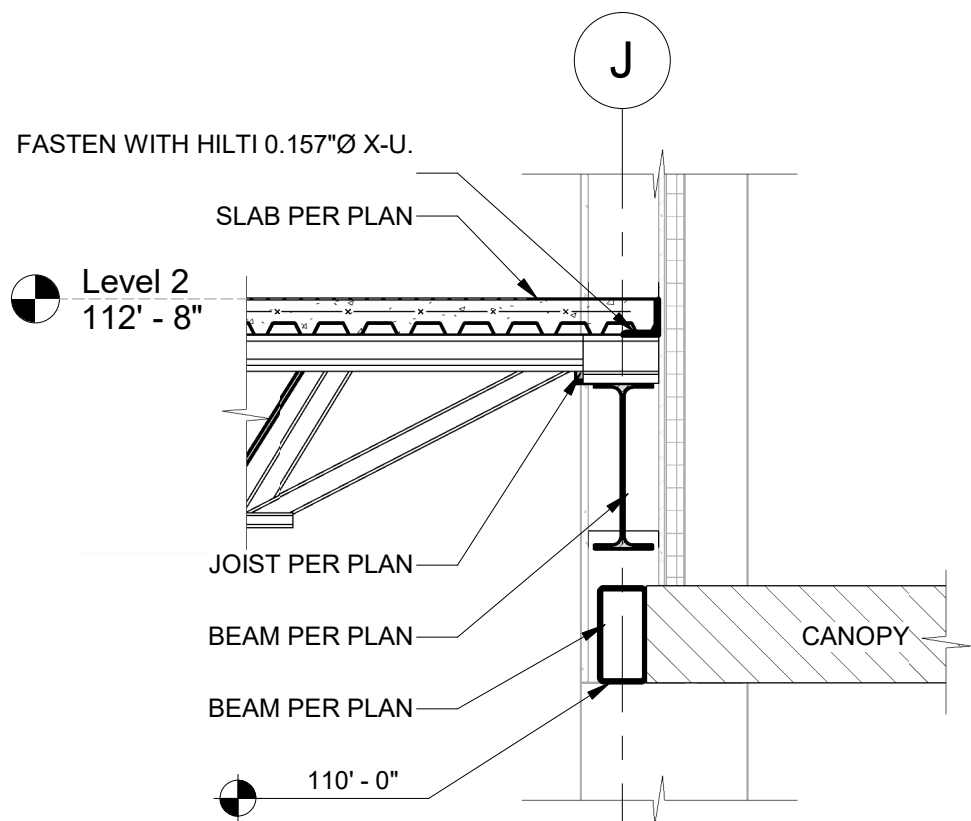
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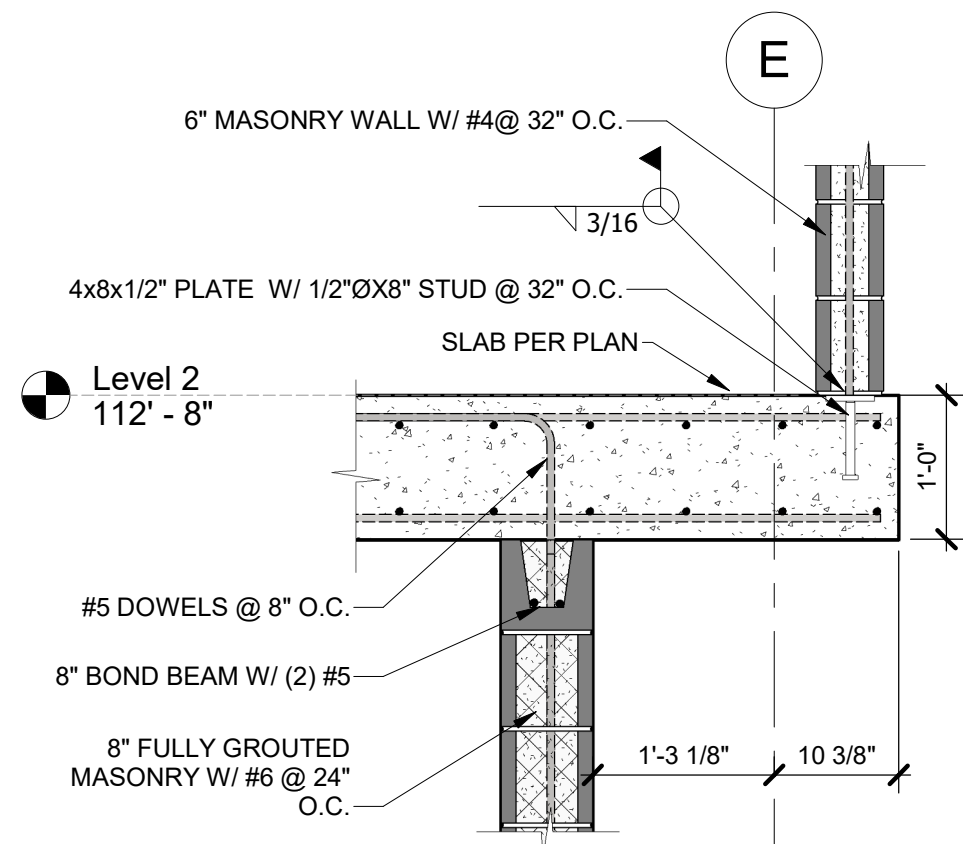
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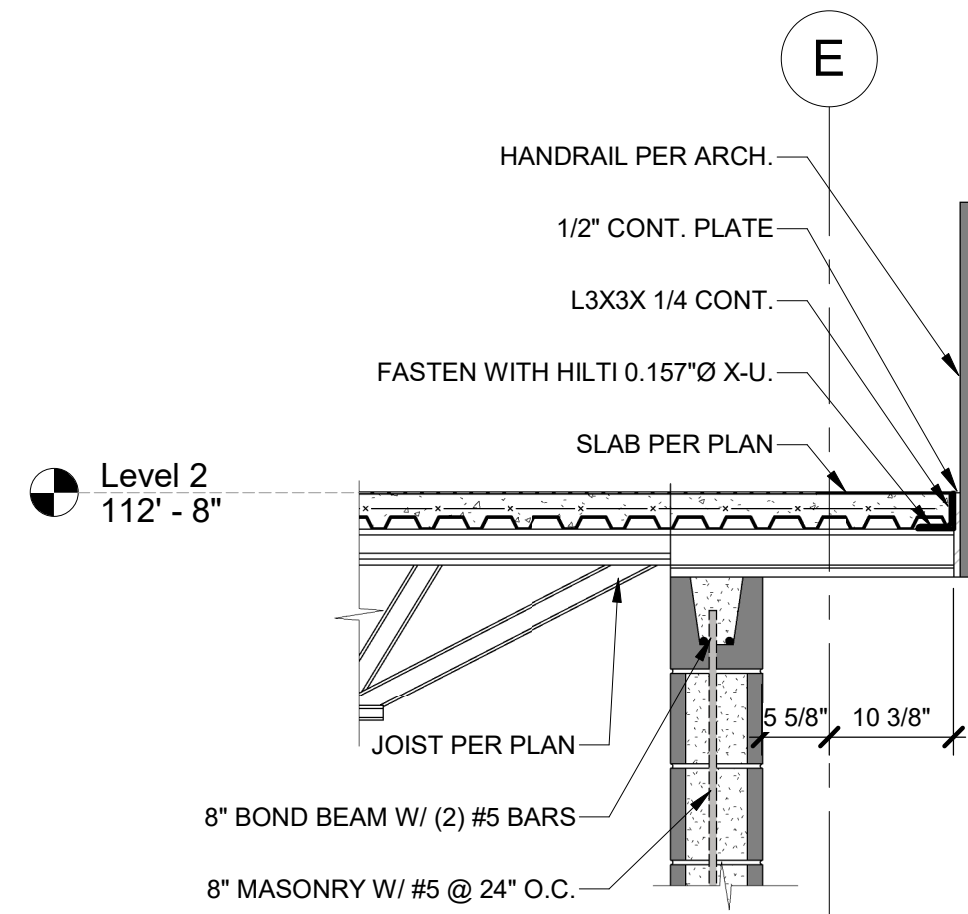
A1 SECTION
3/4" = 1'-0"



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



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



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



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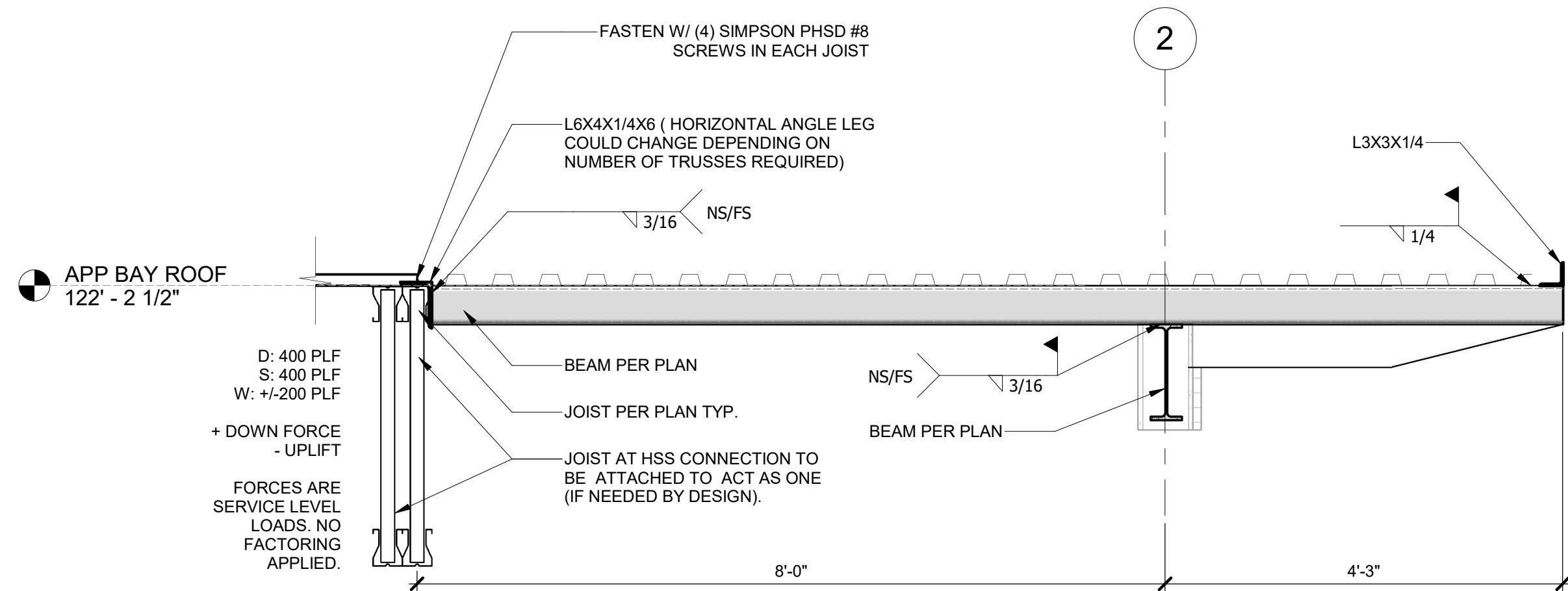
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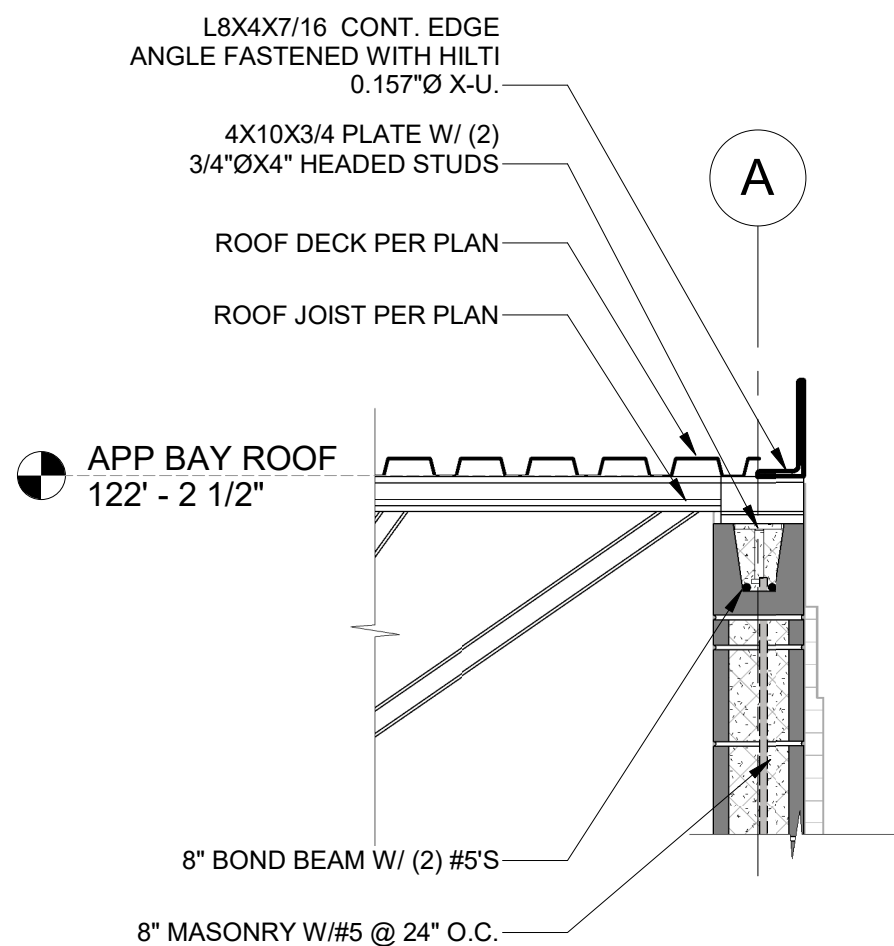
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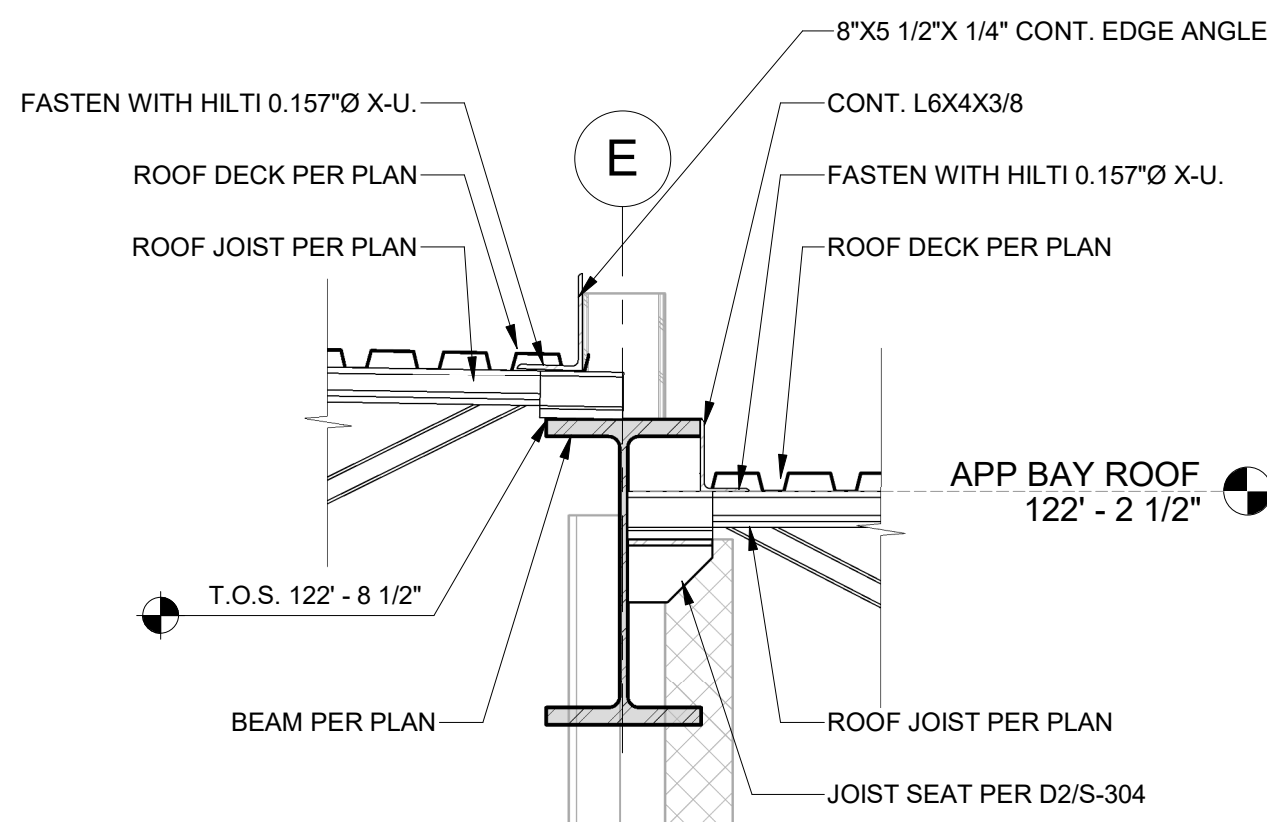
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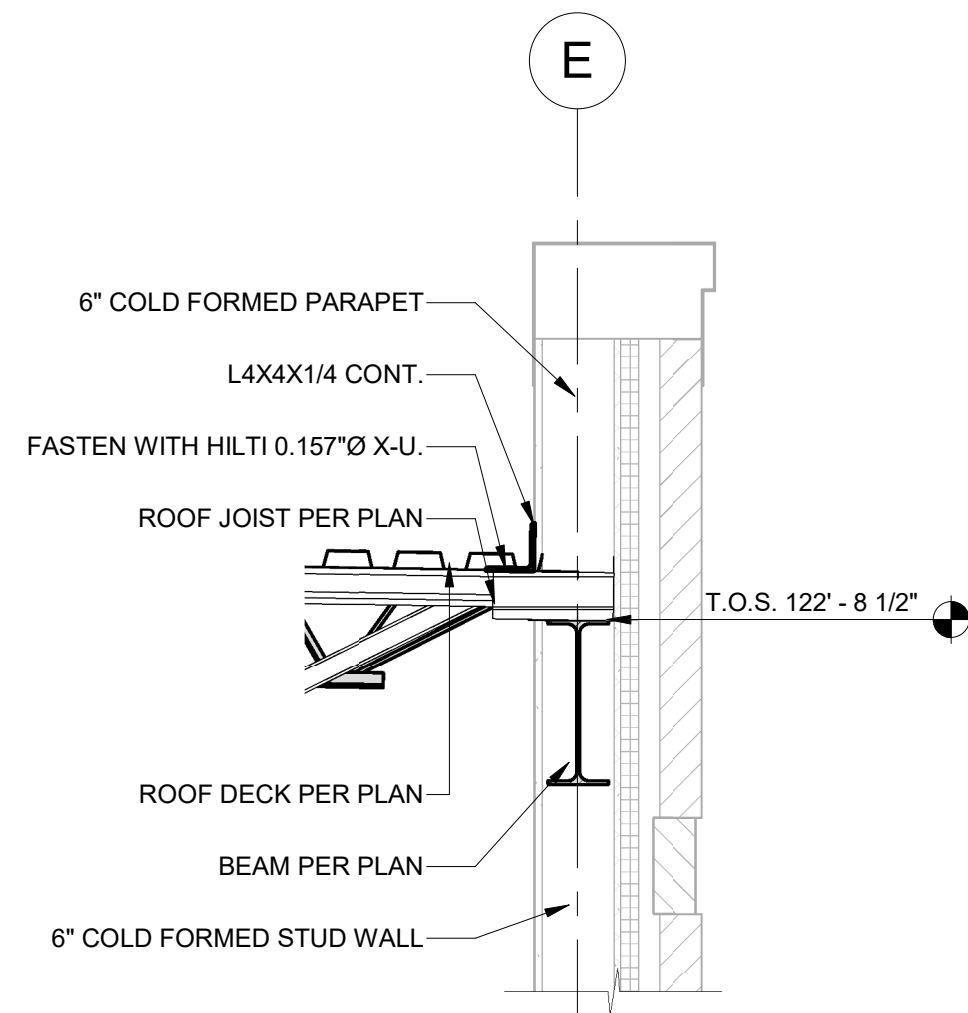
D1 APP BAY ROOF EDGE CONDITION
3/4" = 1'-0"



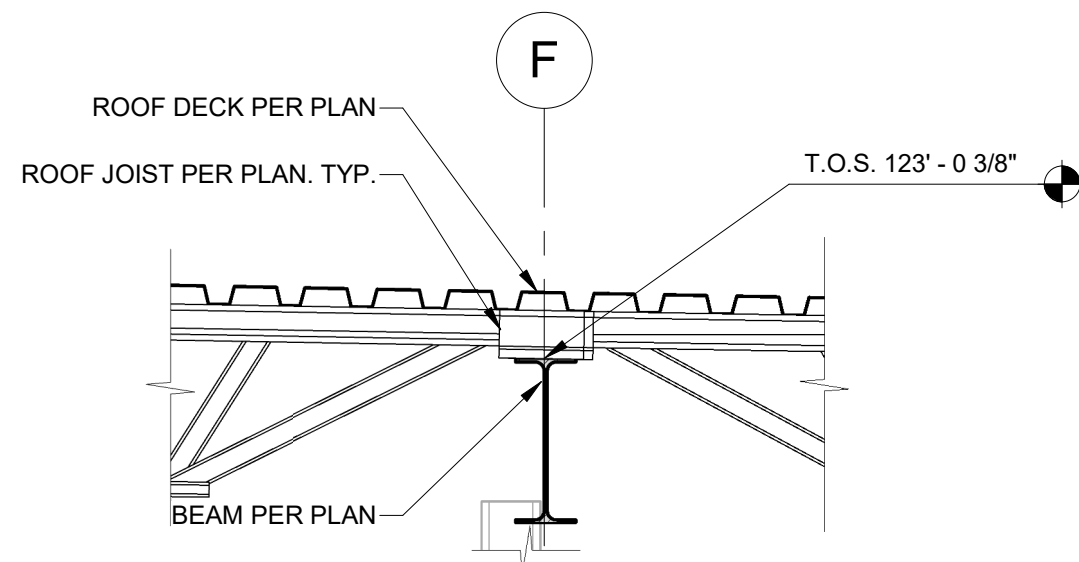
D4 APP BAY ROOF JOIST PERP. TO MASONRY
3/4" = 1'-0"



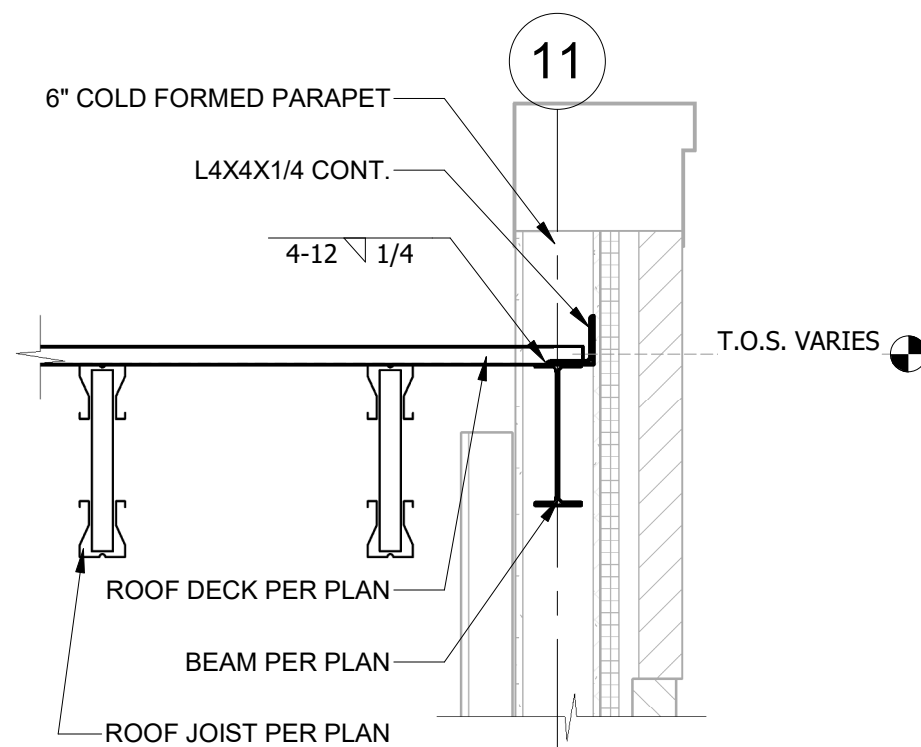
D6 APP BAY ROOF SOUTH BEARING LINE
3/4" = 1'-0"



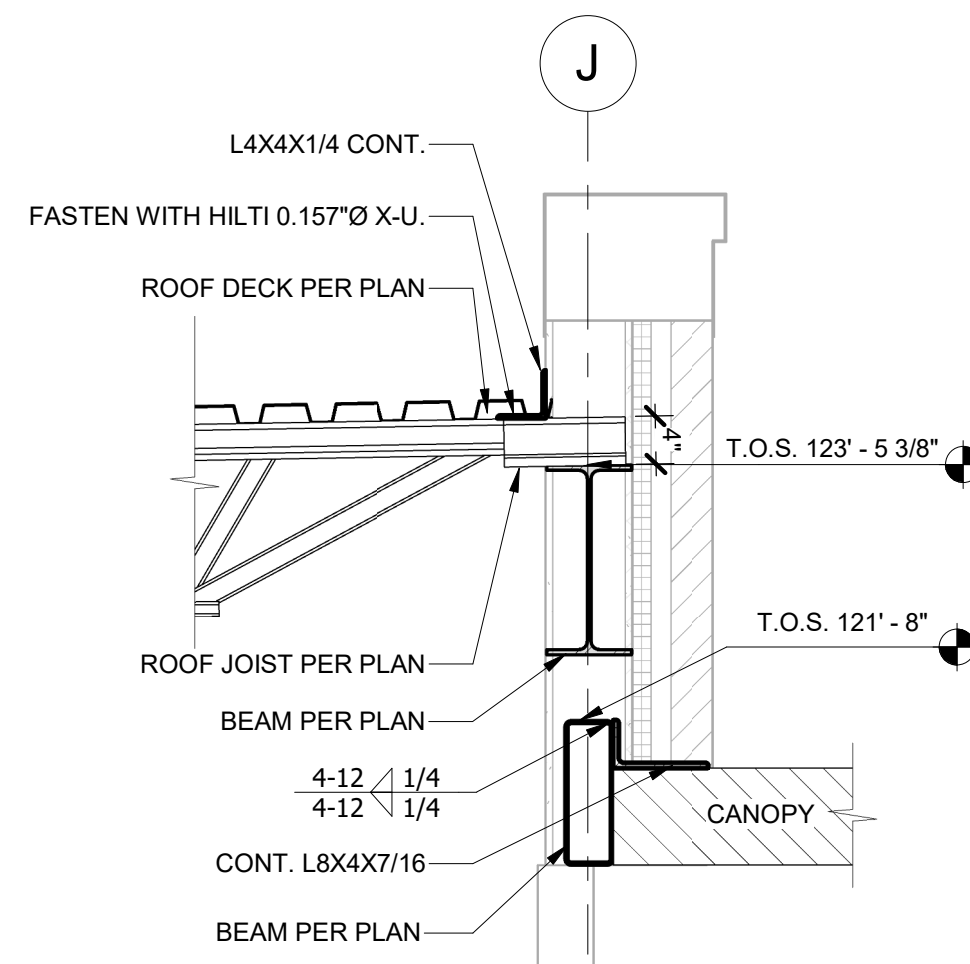
B1 ROOF FRAMING PERP. NOT AT APP BAY NORTH
3/4" = 1'-0"



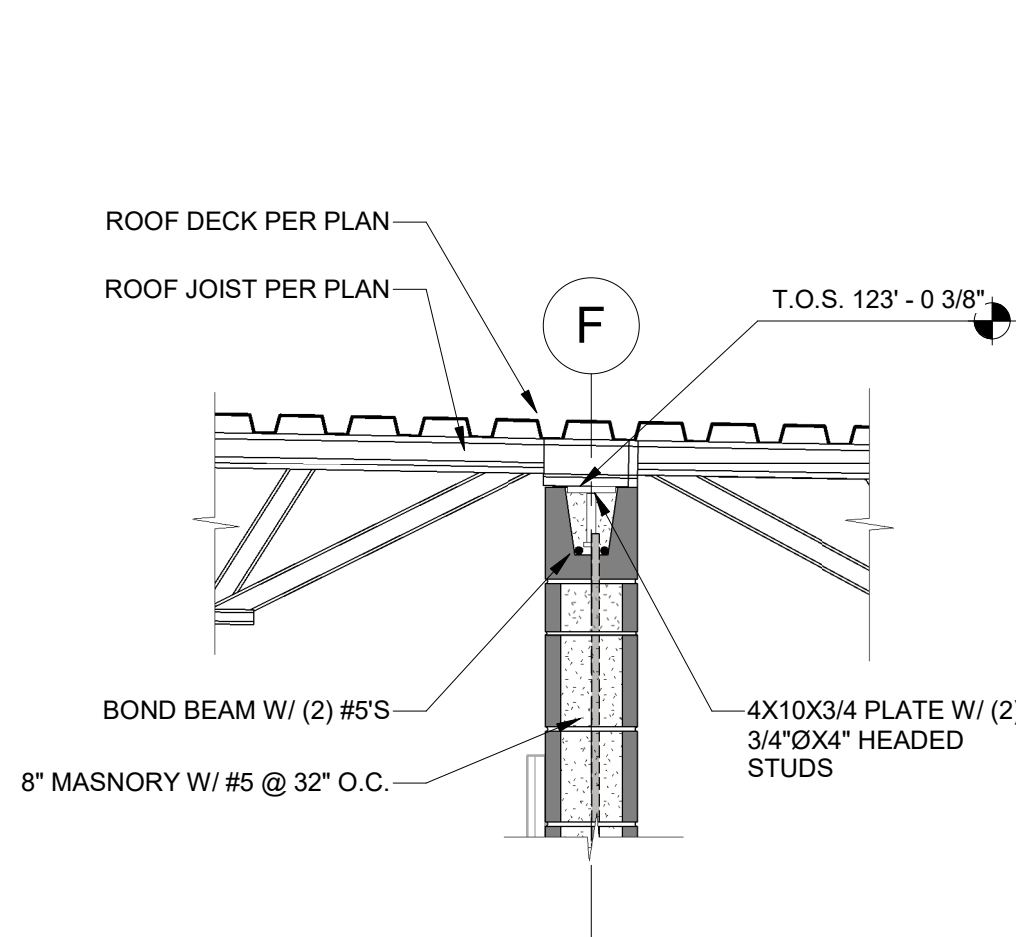
B2 ROOF INTERIOR BEAM BEARING LINE
3/4" = 1'-0"



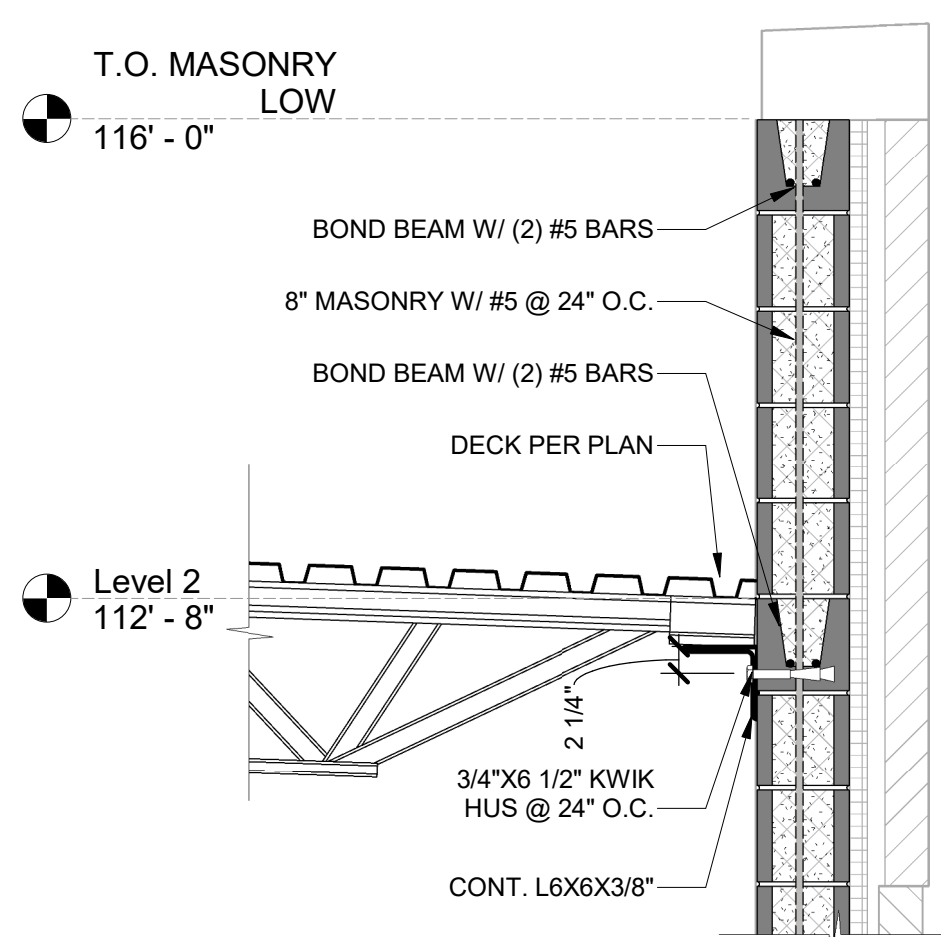
B4 ROOF FRAMING PARALLEL
3/4" = 1'-0"



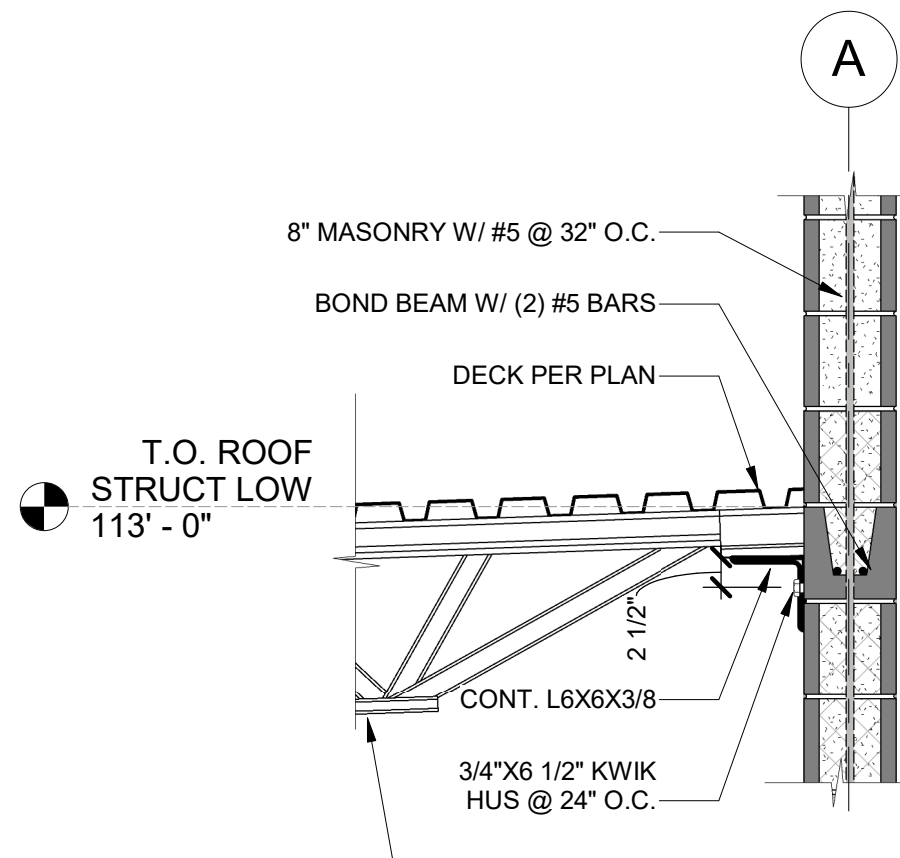
B6 ROOF FRAMING PERP. SOUTH SIDE
3/4" = 1'-0"



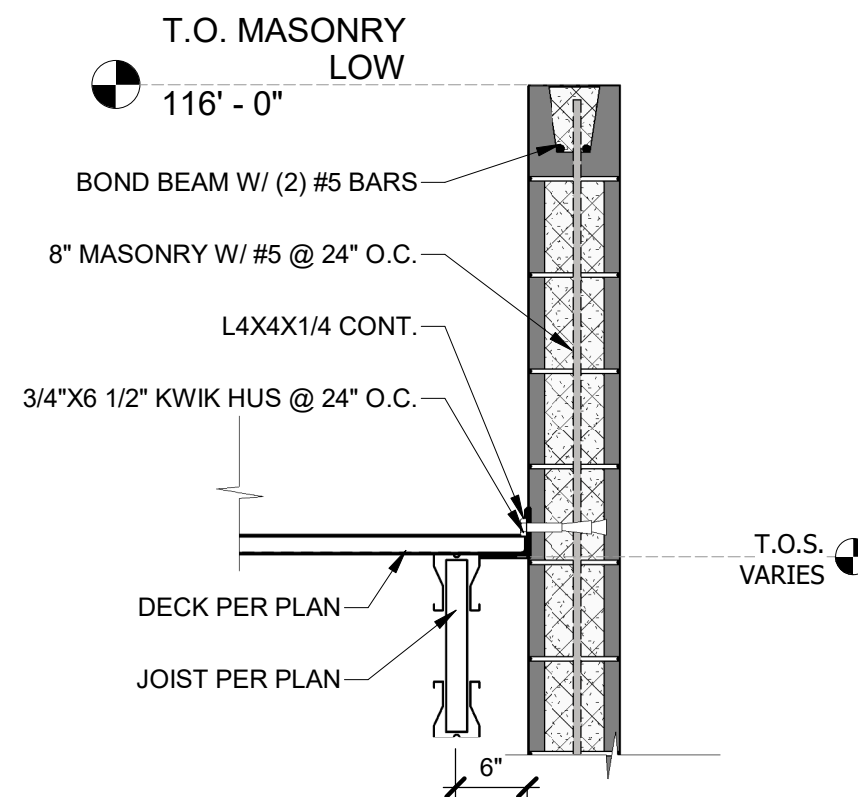
A1 ROOF FRAMING BEARING ON INT. MASONRY WALL
3/4" = 1'-0"



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



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



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



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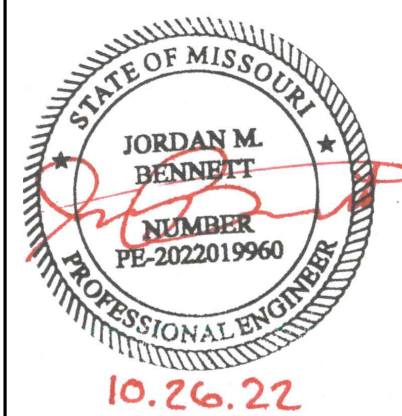
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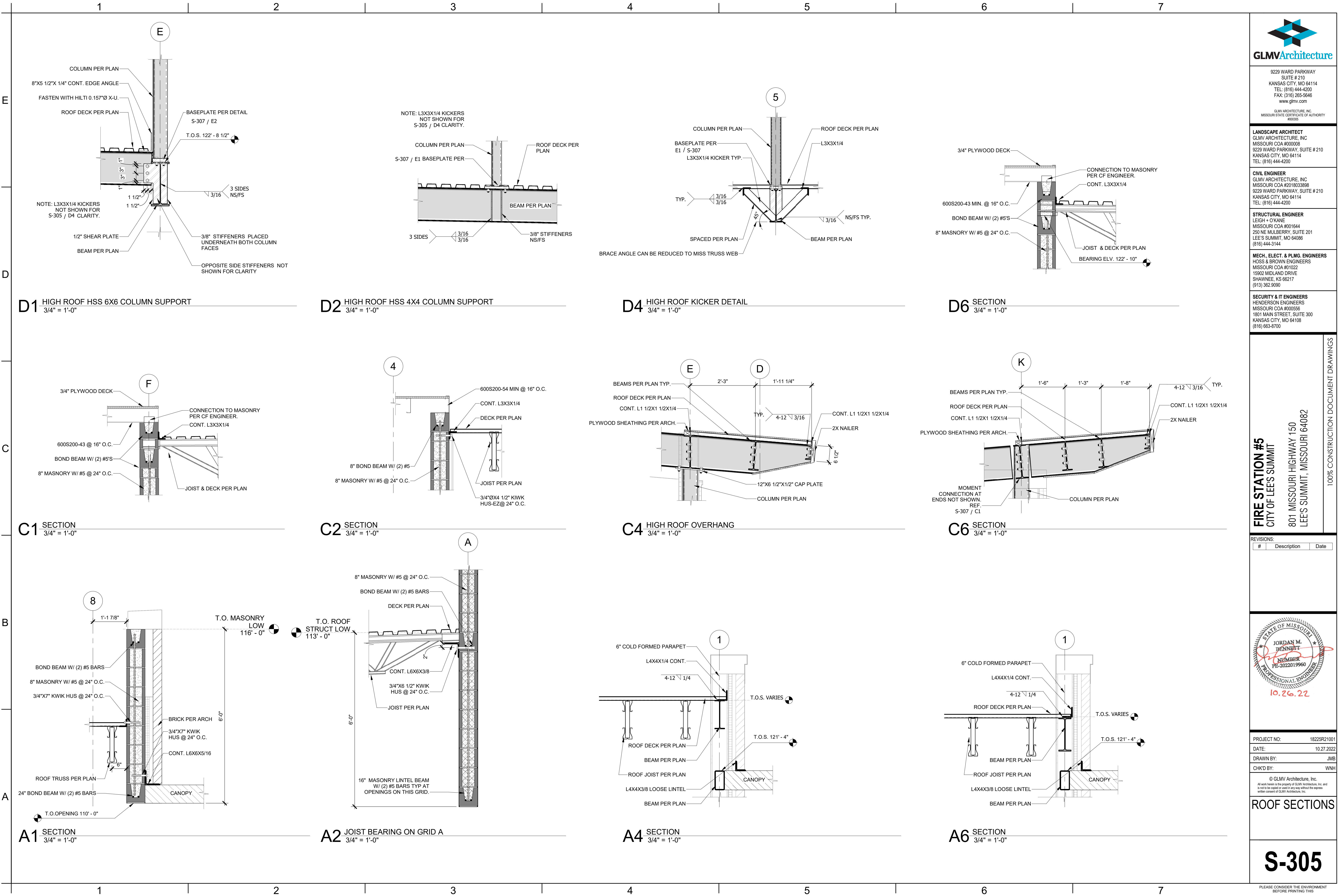
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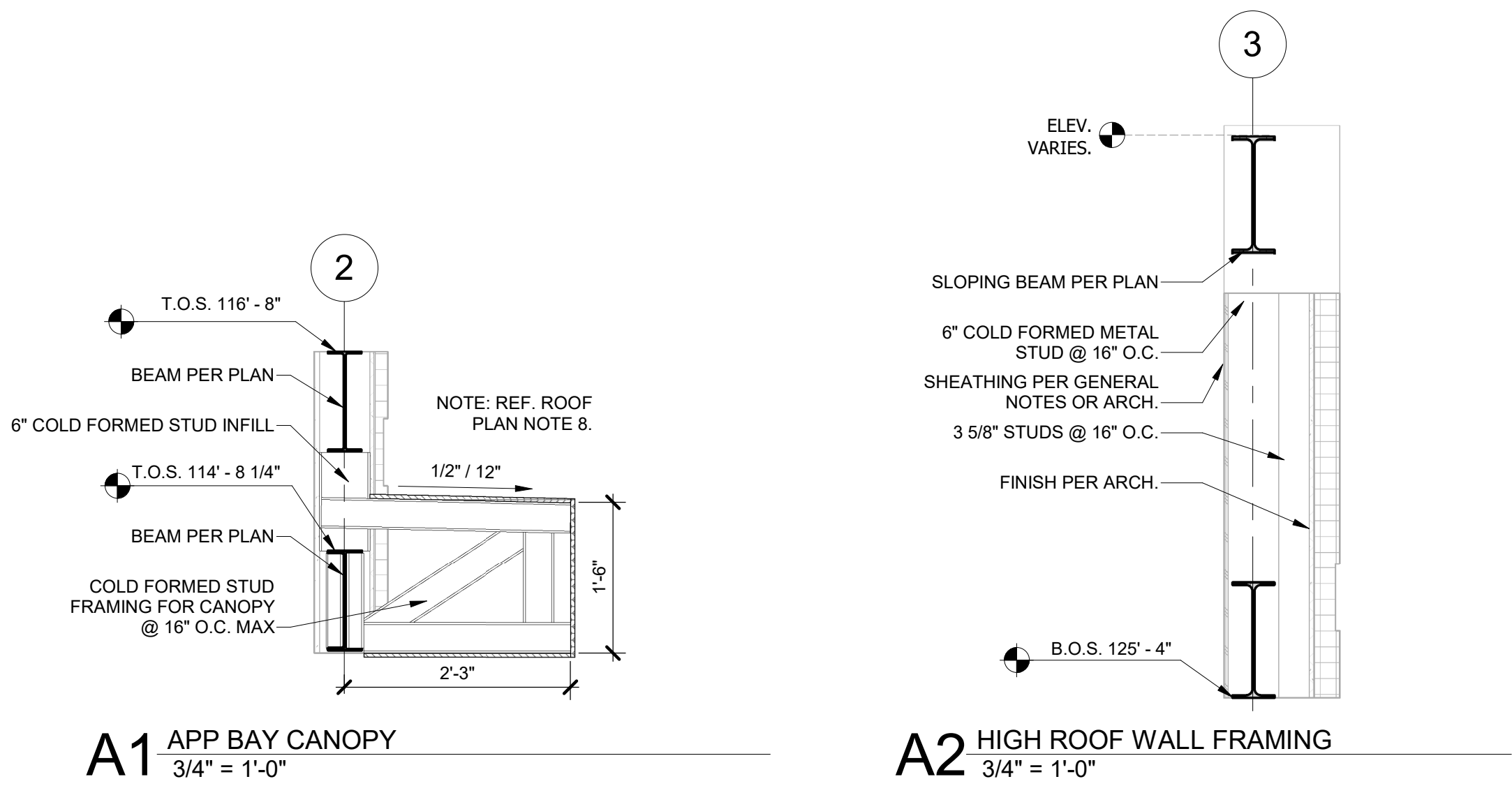
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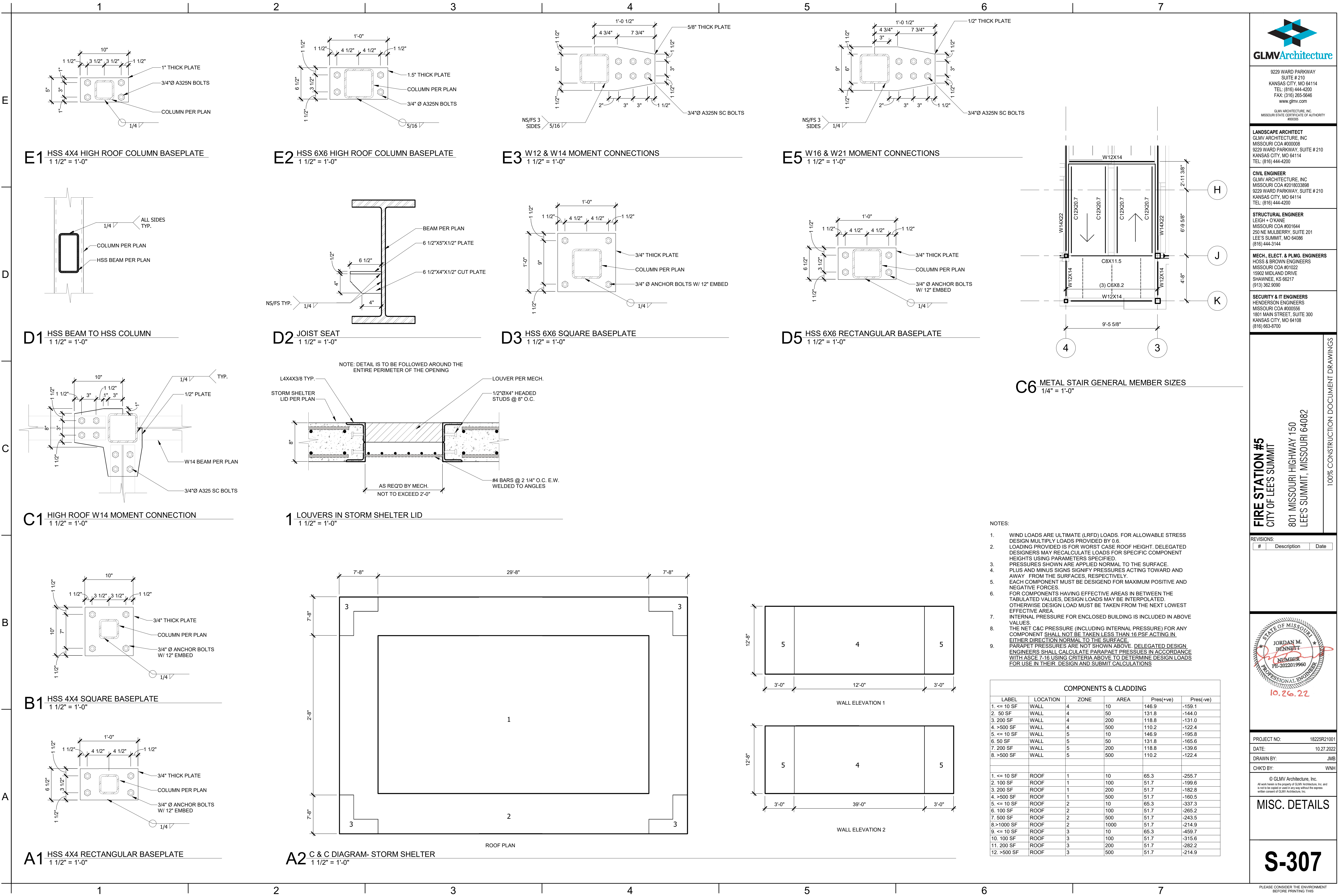
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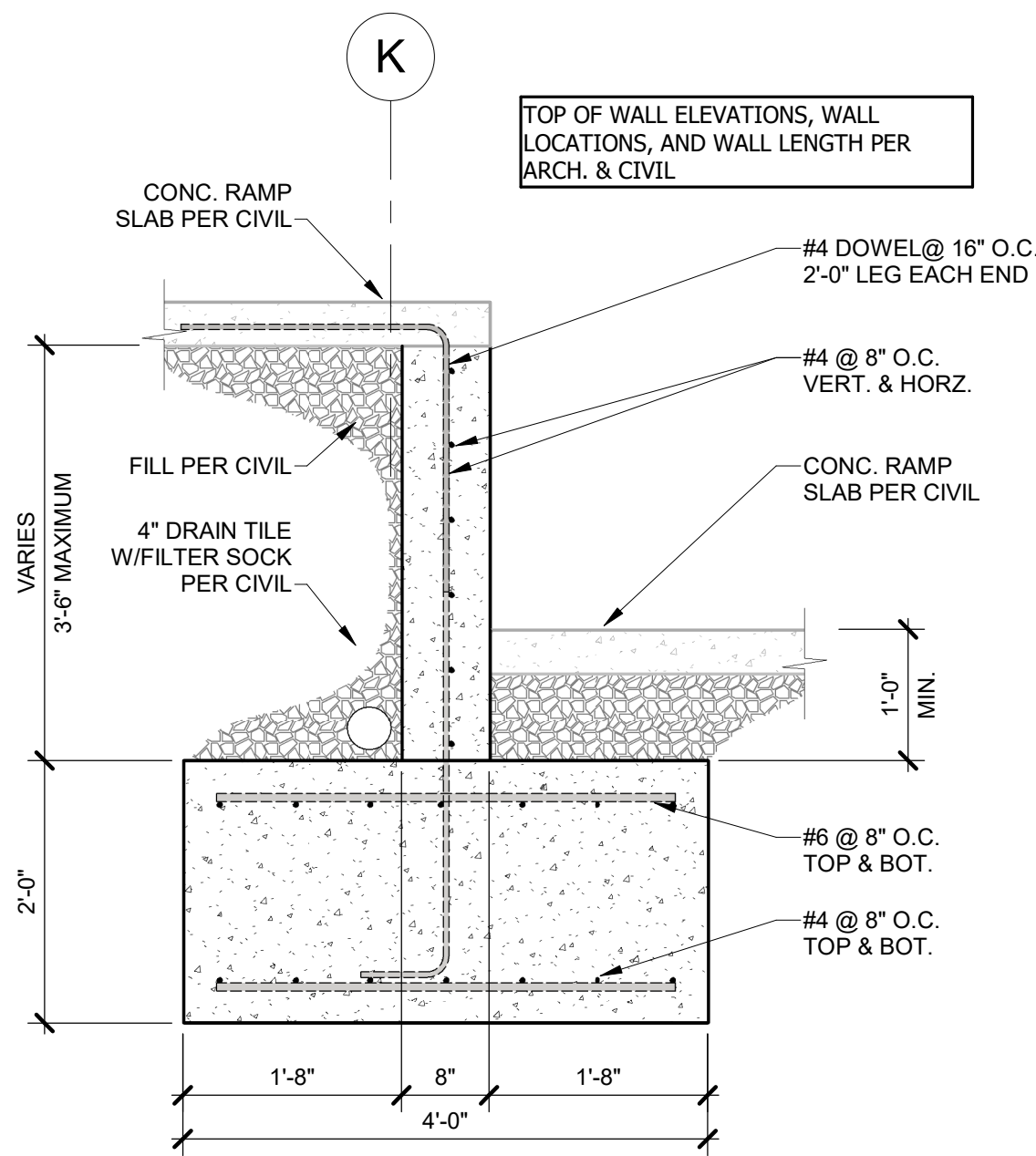
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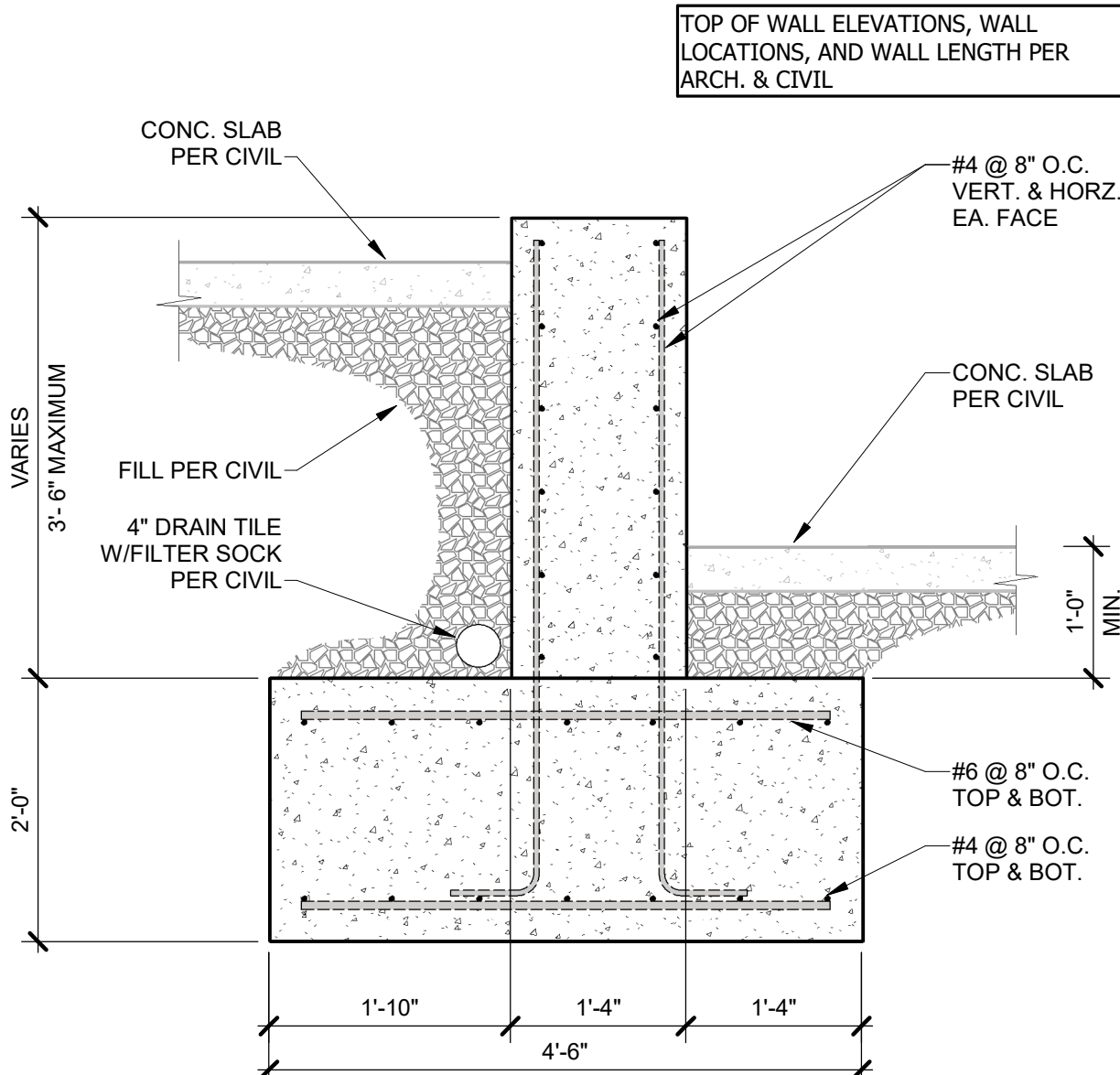
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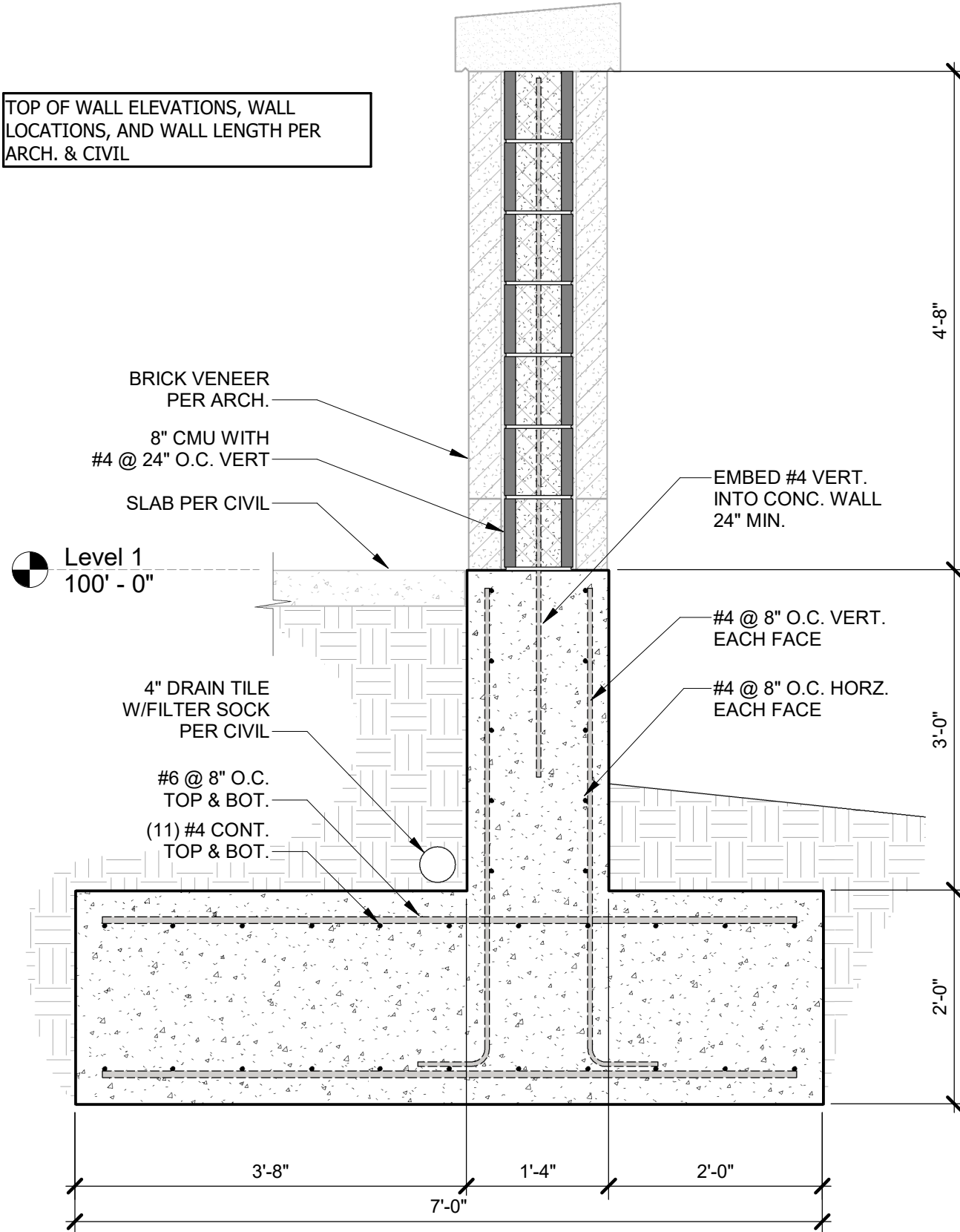
A2 RETAINING WALL BETWEEN RAMPS
3/4" = 1'-0"



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



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



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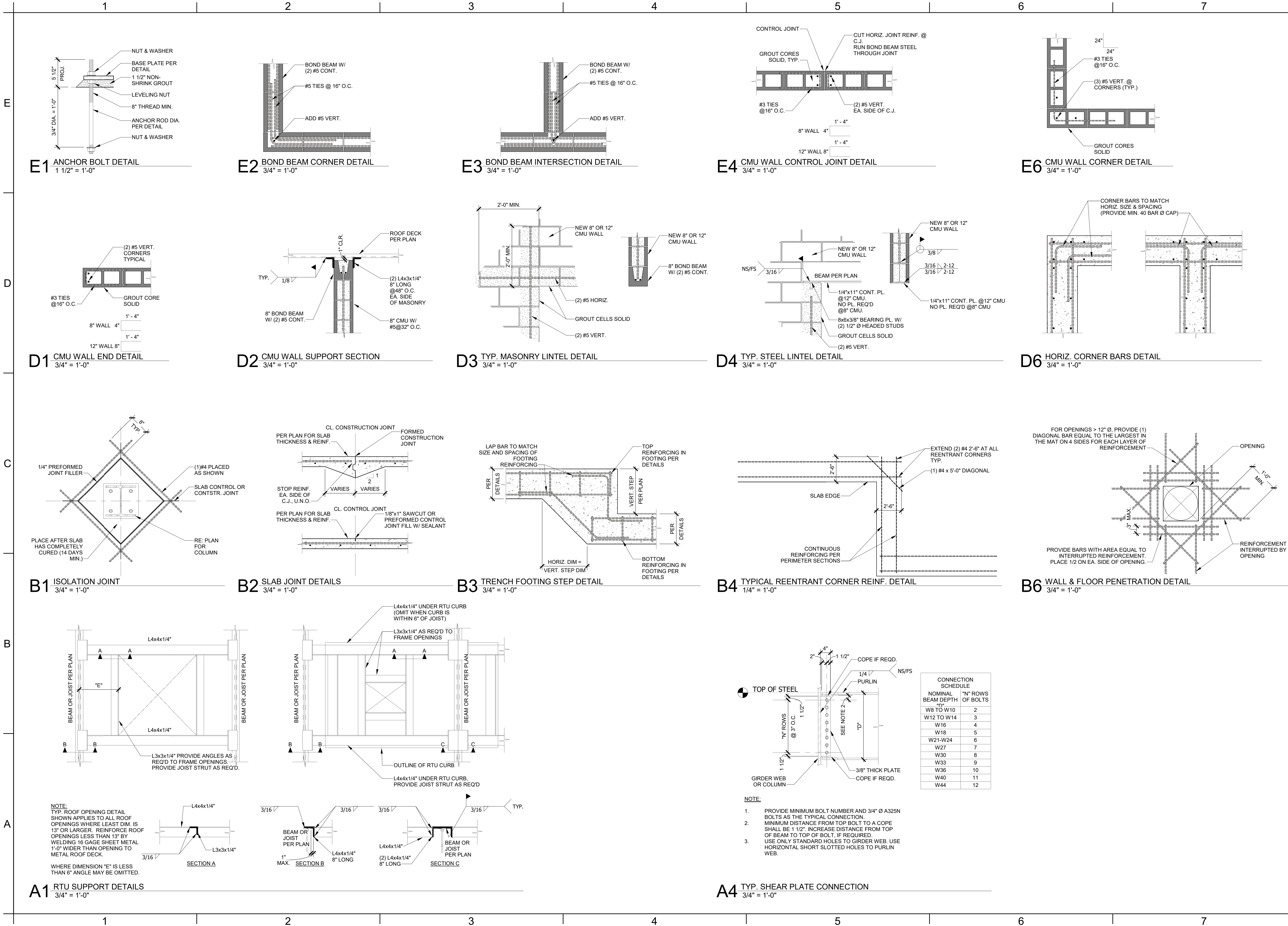
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TYPICAL DETAILS

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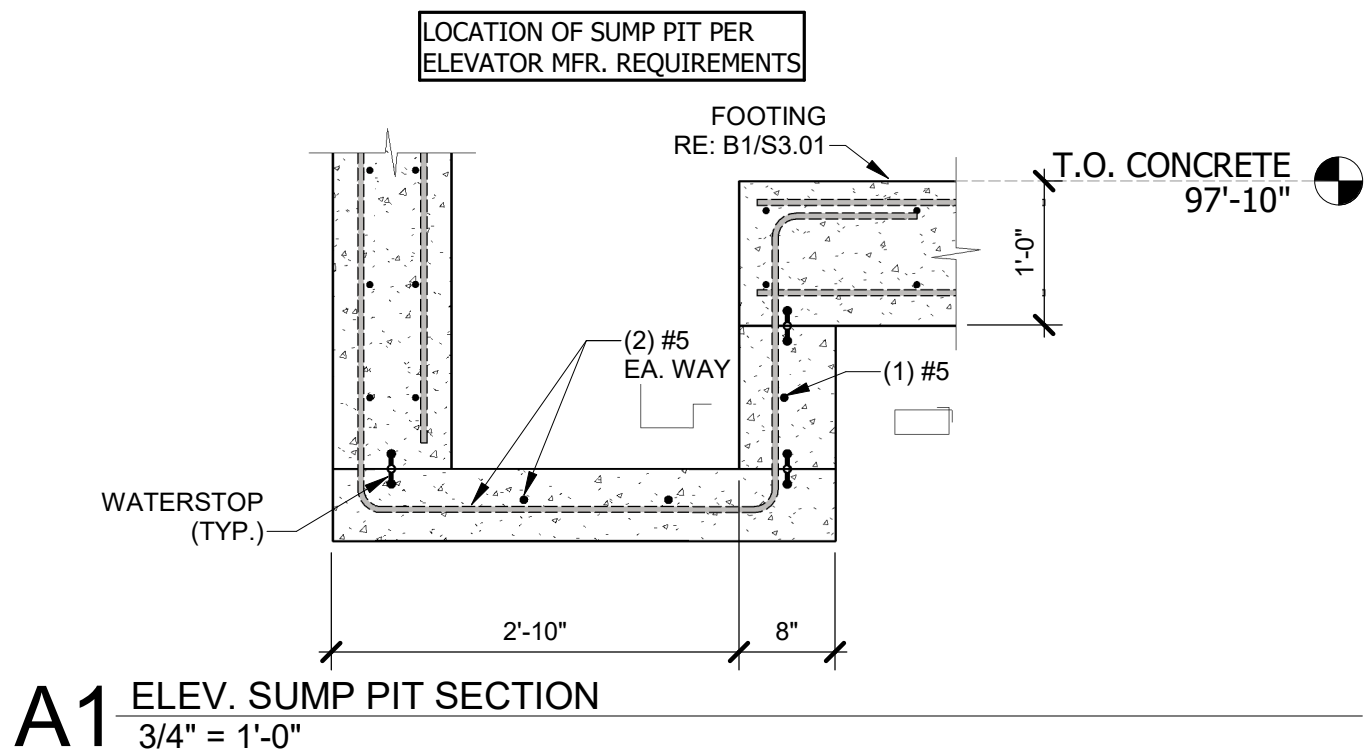
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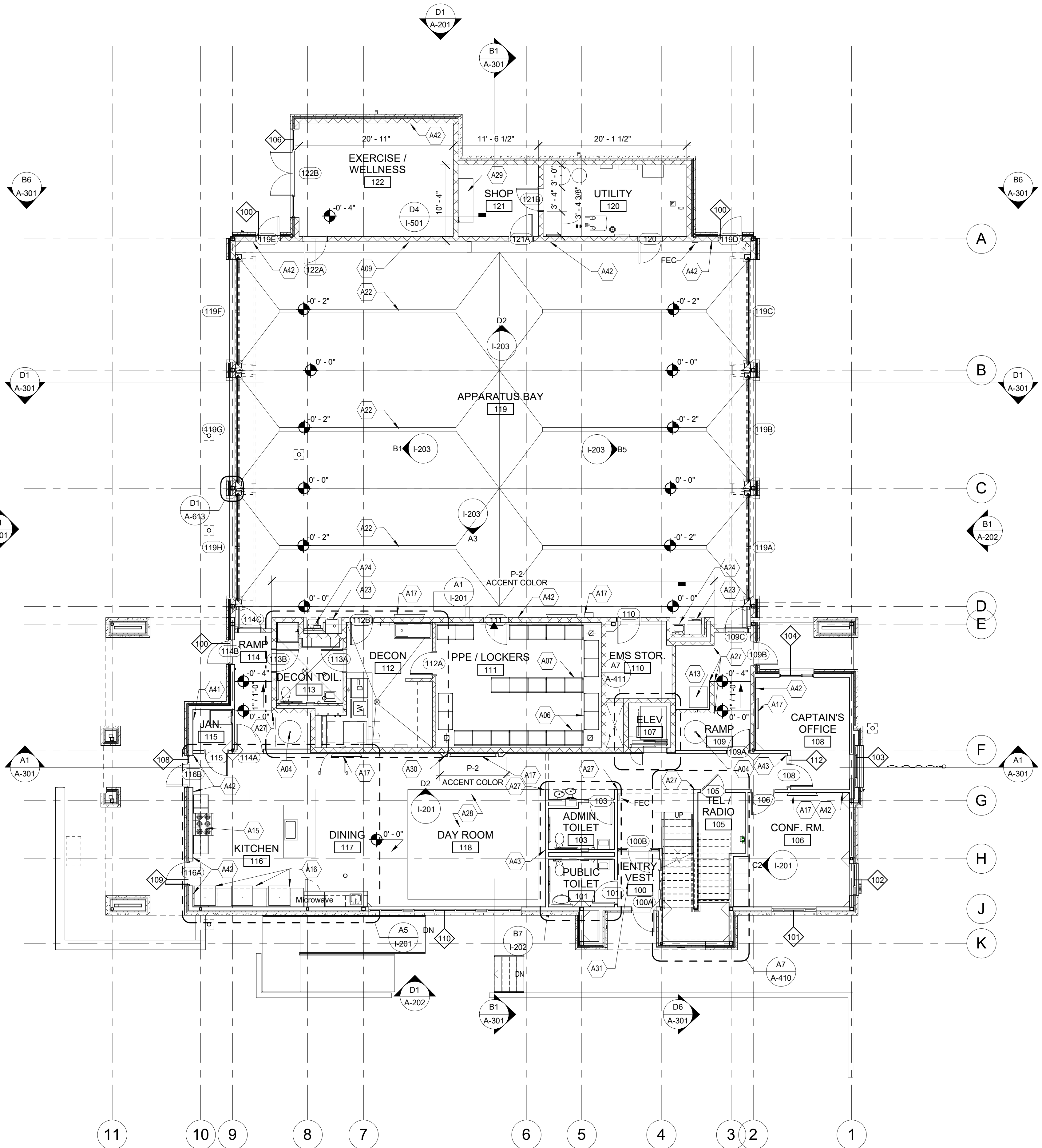
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A3

FIRST FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'

PLAN NORTH

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, CFCl
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, CFCl
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

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PAUL J. MICHELL
NUMBER
A-2009021701
10/17/22
ARCHITECT

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MO# A-2009021701
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FIRST FLOOR PLAN

A-101

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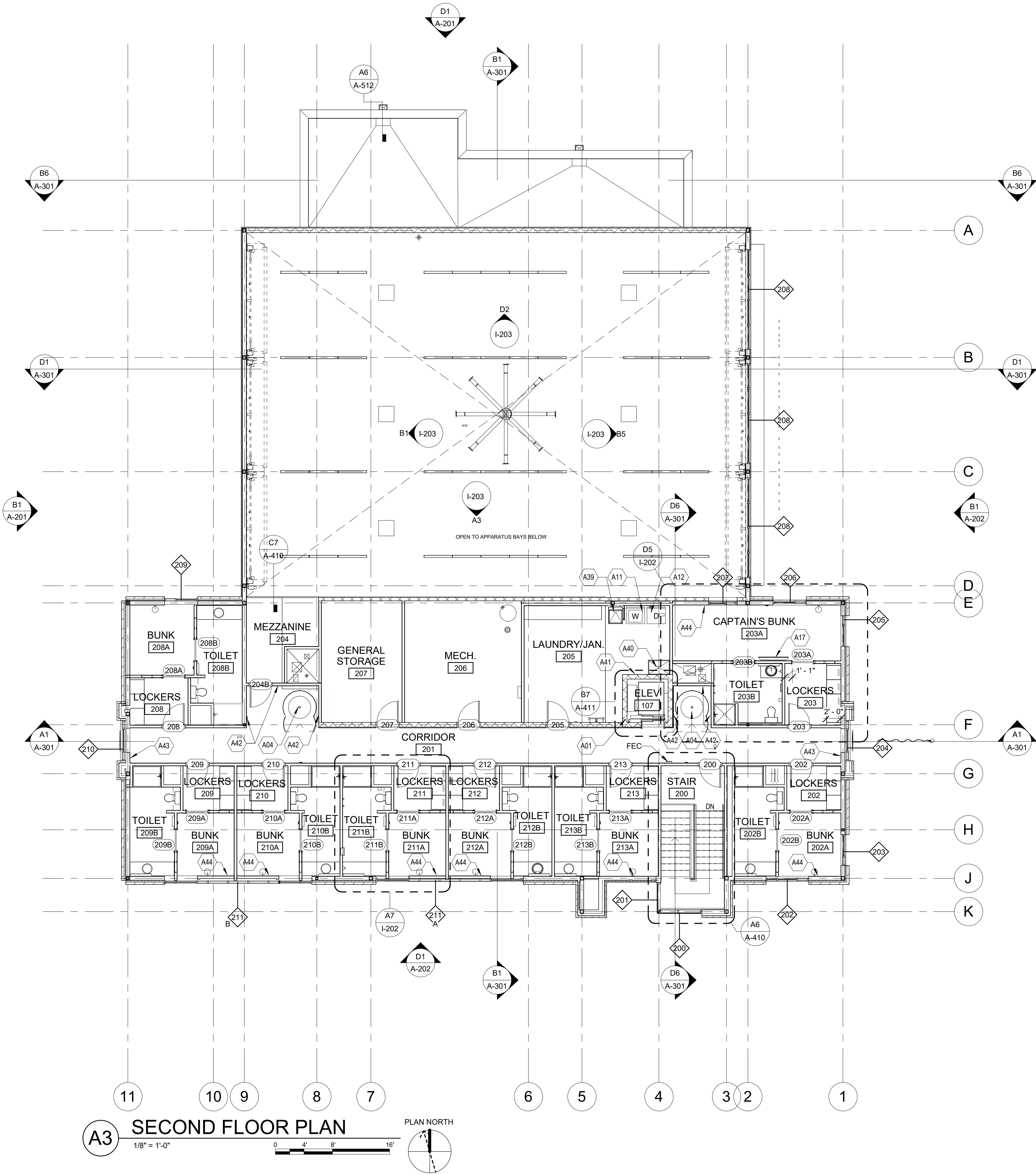
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A12	HEAVY-DUTY RESIDENTIAL DRYER, OFCI
A17	WALL-MOUNTED TV, OFCI. BLOCKING AND TV BRACKET, OFCI
A39	UTILITY SINK
A40	MOP SINK
A41	MOP AND BROOM RACK
A42	P-2 - ACCENT COLOR
A43	P-3 - ACCENT COLOR
A44	P-4 - ACCENT COLOR



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SECOND FLOOR PLAN

A-102

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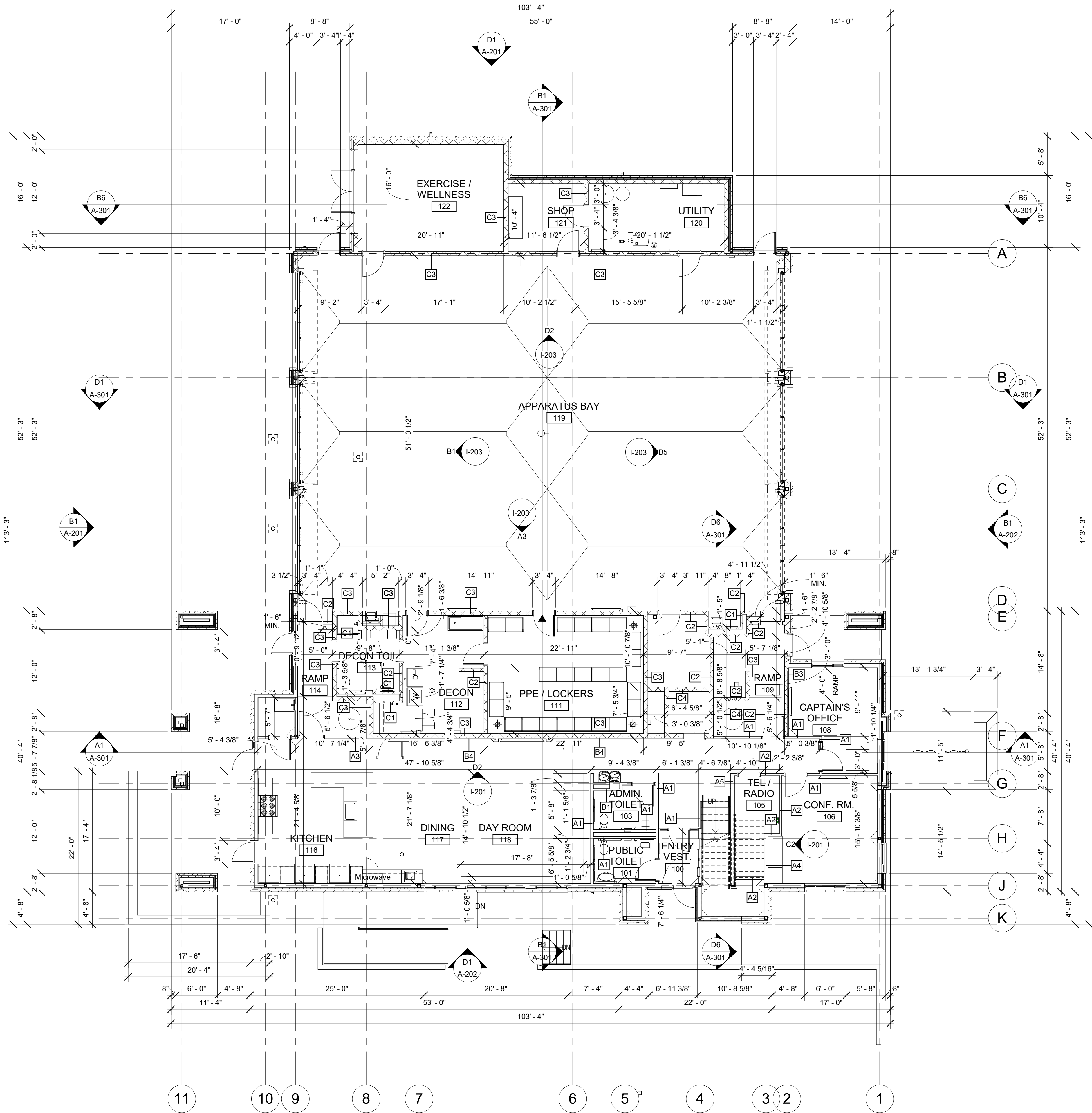
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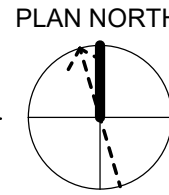
C

B

A



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





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DRAWN BY:	JSP
CHK'D BY:	PJM

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**FIRST FLOOR
DIMENSION PLAN**

A-103

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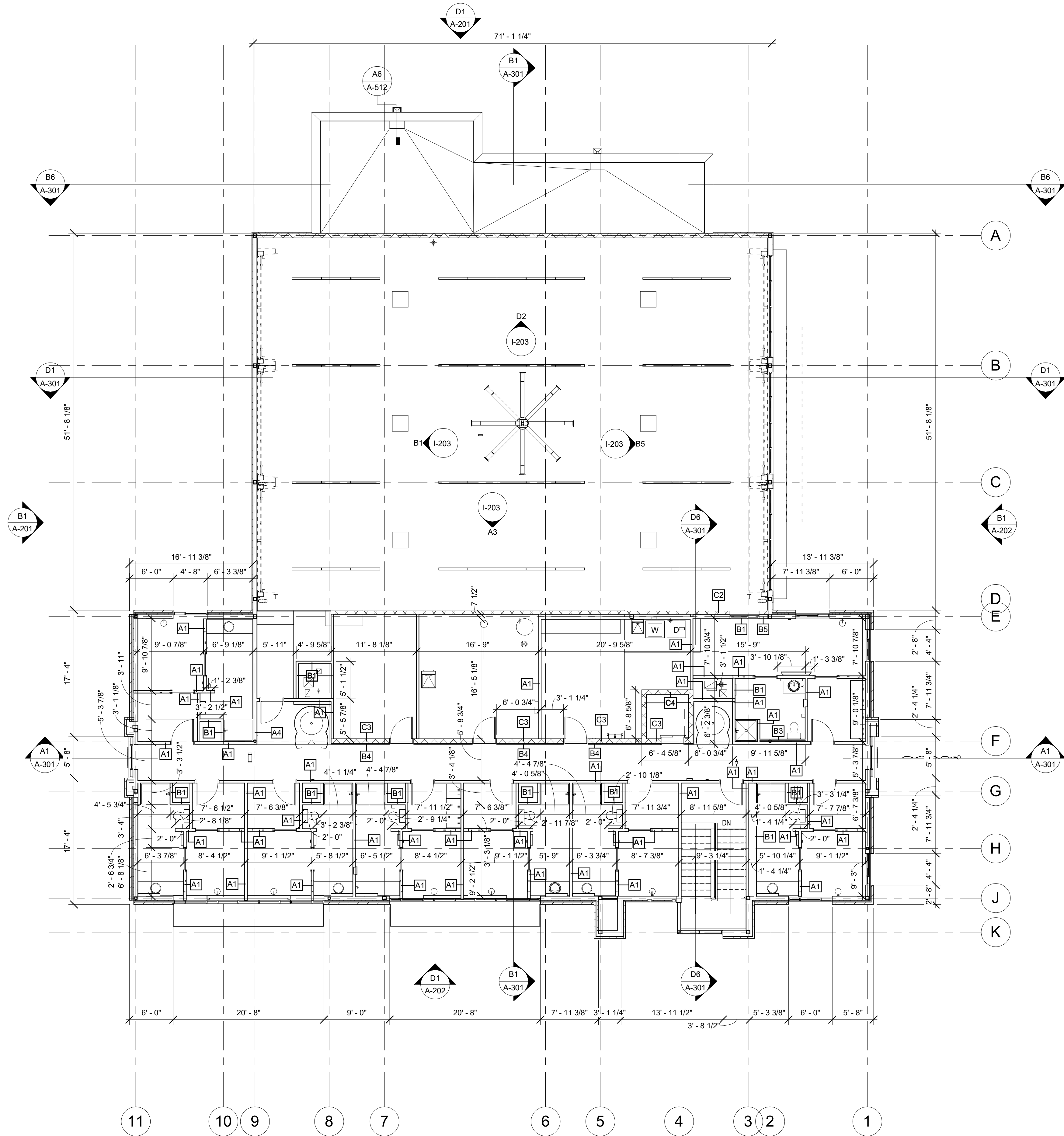
E

D

C

B

A



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

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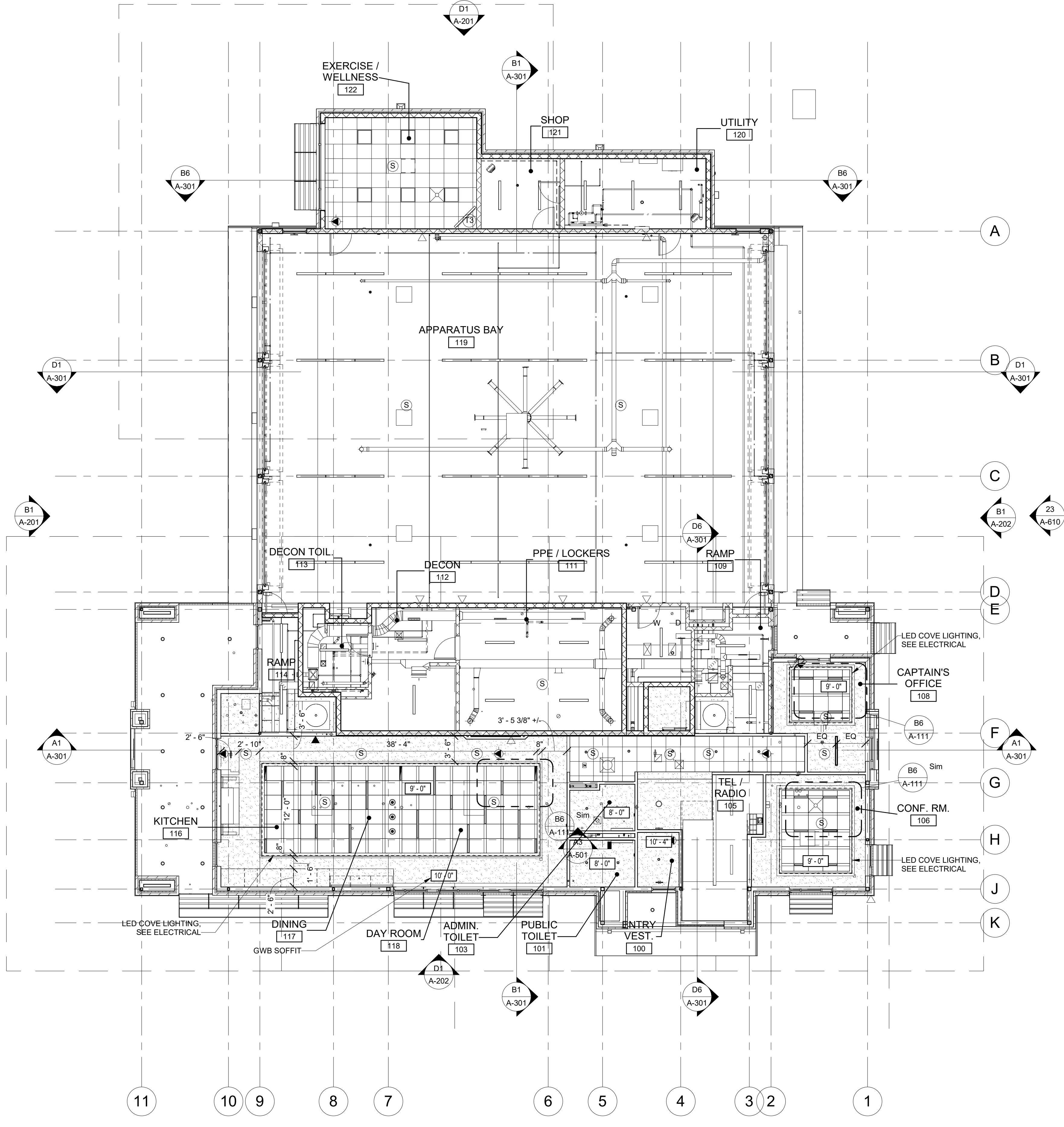
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SECOND FLOOR
DIMENSION PLAN

A-104

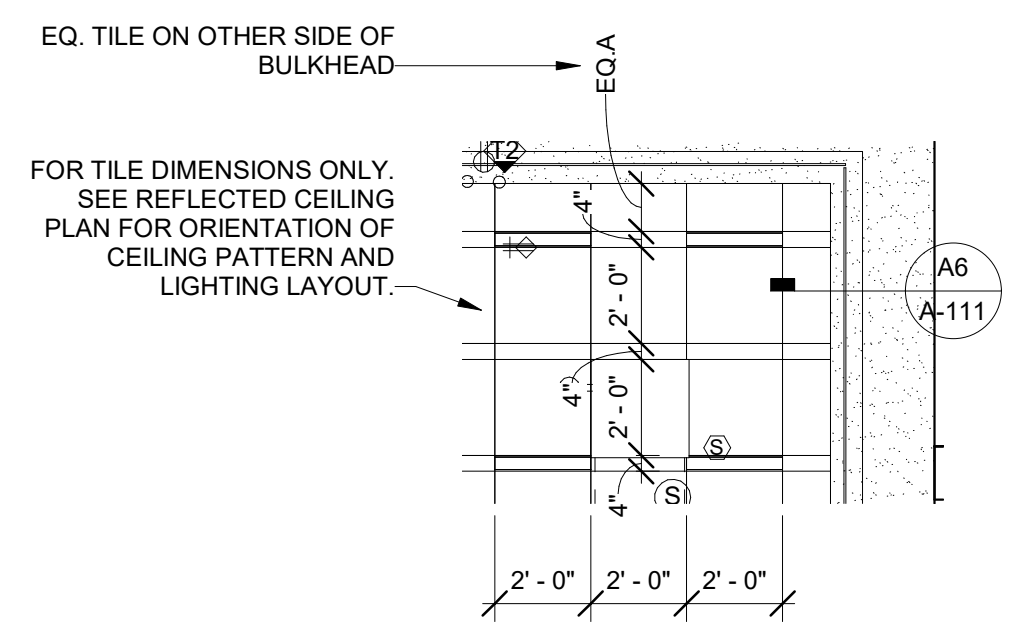
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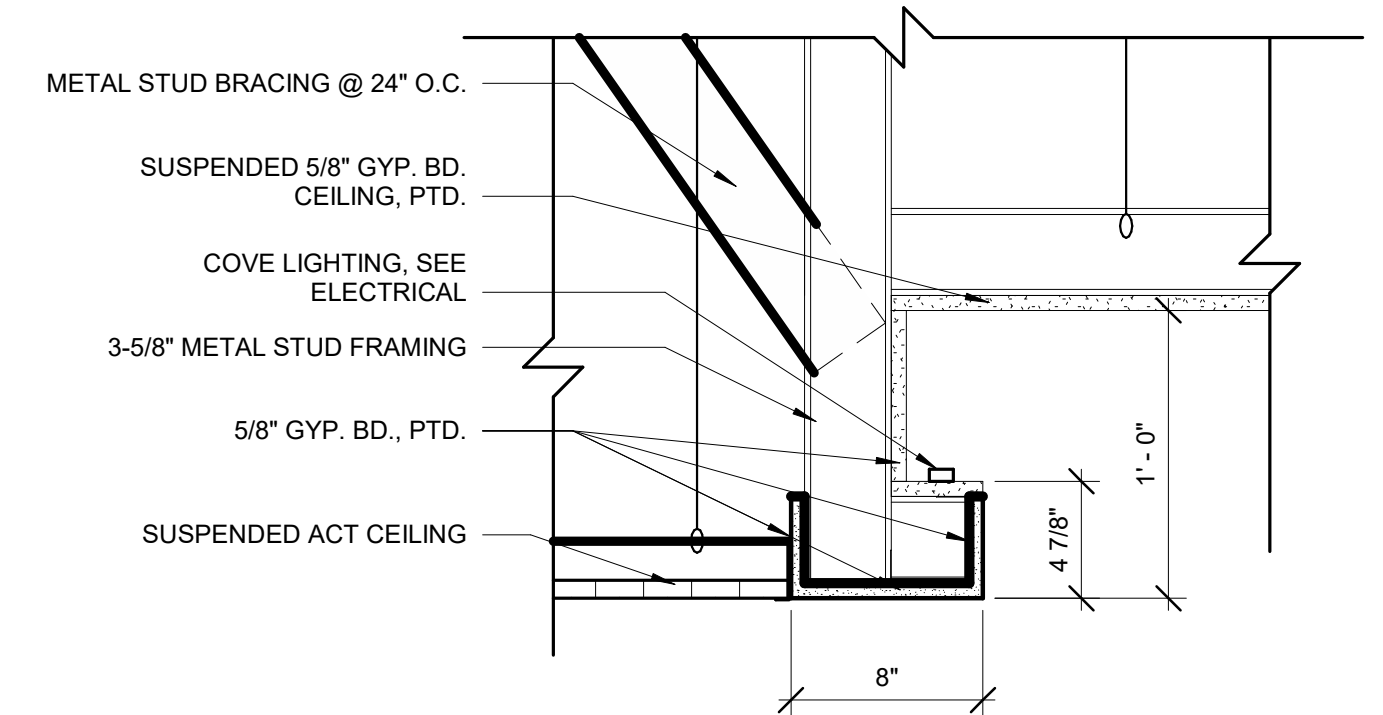
A1 LEVEL 1 CEILING PLAN
1/8" = 1'-0"

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		



B6 BULKHEAD CEILING DETAIL



A6 BULKHEAD AND COVE DETAIL

SHEET NOTES

- A. SEE ROOM FINISH SCHEDULE SHEET I-601 FOR CEILING TYPES AND MATERIALS IN EACH ROOM/AREA.
- B. PERIMETER TRACK FOR ALL ACOUSTICAL CEILING GRIDS SHALL BE INSTALLED IN ACCORDANCE WITH IBC AND CISCA GUIDELINES.
- C. ALL DIMENSIONS ARE FROM FACE OF FINISH MATERIAL.
- D. 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.
- E. 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.
- F. 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.
- G. 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.
- H. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS INDICATED.
- I. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, GENERAL ALARM, AND MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED, U.N.O..
- J. INSTALL ACCESS PANELS IN GYP BD CEILINGS AT DUCT DAMPER CONTROLS, DUCT MOUNTED SMOKE DETECTORS, MANUAL DUCT CONTROLS, ETC.
- K. LIGHT FIXTURES LOCATED AT STAIRS SHALL OCCUR AT EACH FLOOR AND INTERMEDIATE LANDINGS.
- L. LOCATE SPRINKLER HEADS IN THE CENTER ZONE OF THE CEILING TILE. ALIGN CORRIDOR SPRINKLER HEADS IN THE SAME LINE PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION.

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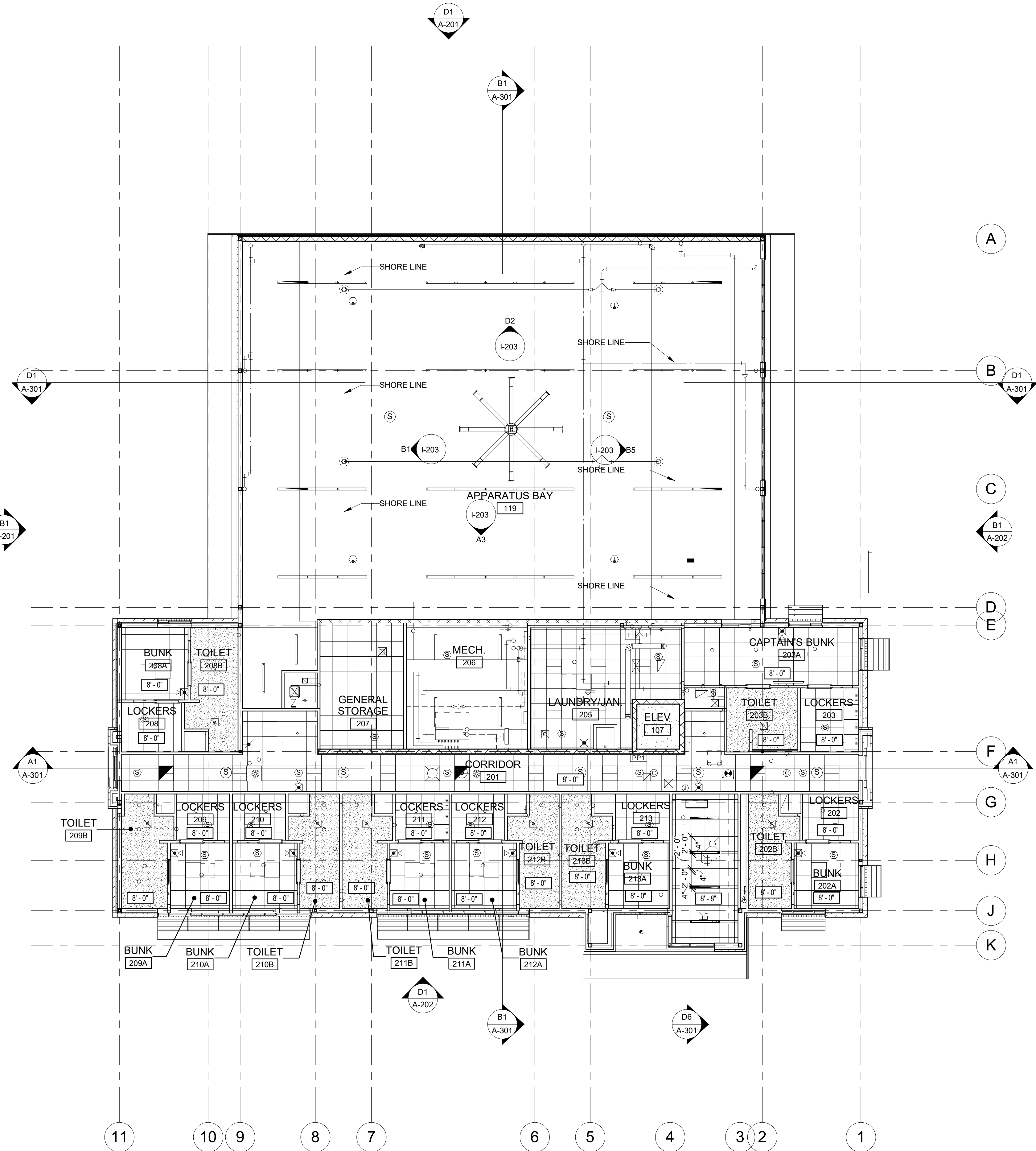
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FIRST FLOOR REFLECTED CEILING PLAN

A-111

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

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		

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A-2009021701
12/17/22
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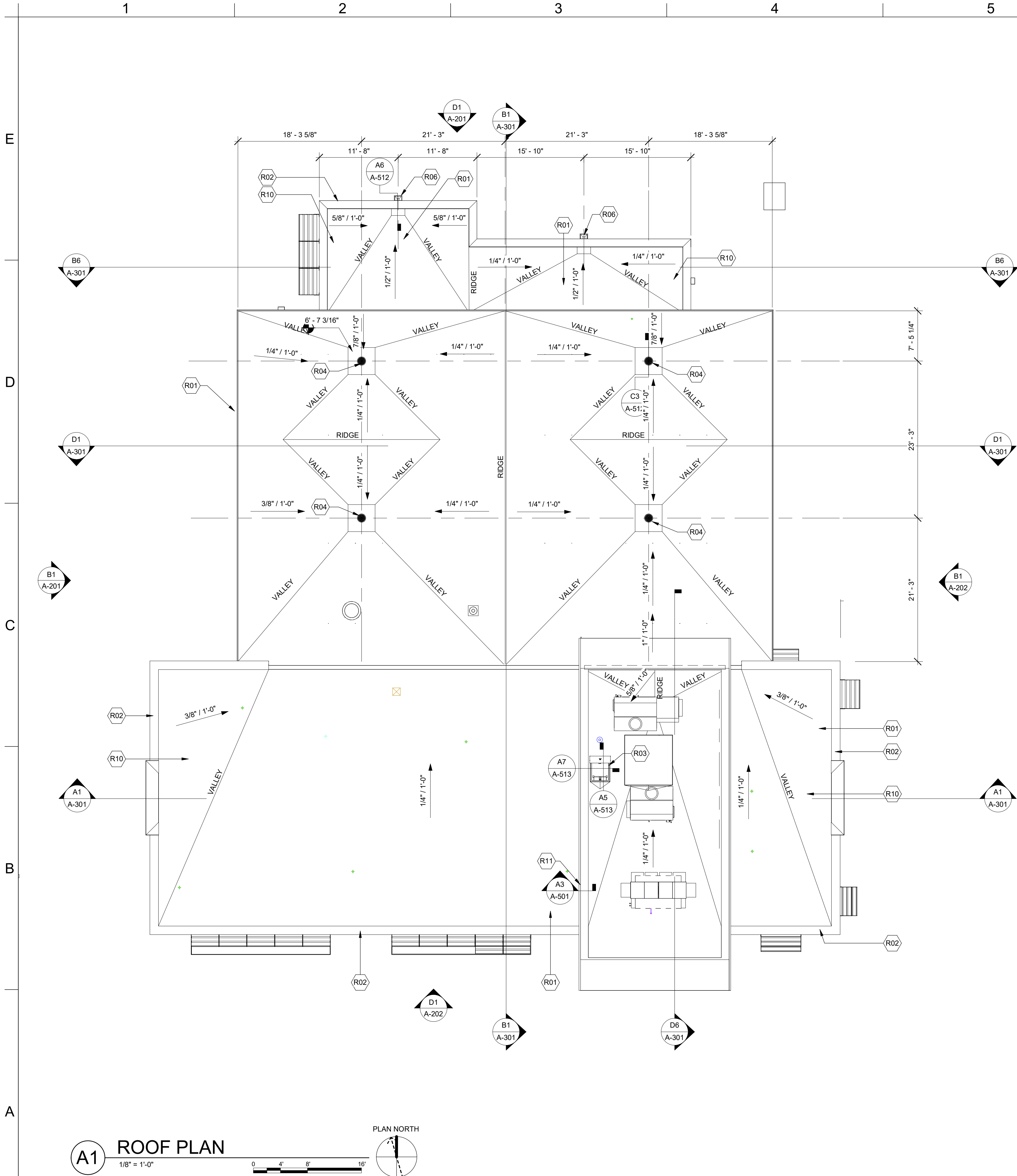
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**SECOND FLOOR
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CEILING PLAN**

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ROOF PLAN KEYNOTES	
KEY	DESCRIPTION
R01	FULLY ADHERED TPO ROOFING ON 1/2" RECOVERY BD.
R02	PRE-FINISHED SHEET METAL PARAPET CAP
R03	PRE-FABRICATED ROOF HATCH
R04	INTERNAL ROOF DRAIN (RE: PLMG.)
R06	PRE-FINISHED SHEET METAL DOWNSPOUT & CONDUCTOR HEAD
R10	TAPERED RIGID INSUL. ROOF CRICKET
R11	24"x30" METAL ACCESS DOOR



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DRAWN BY:	JSP
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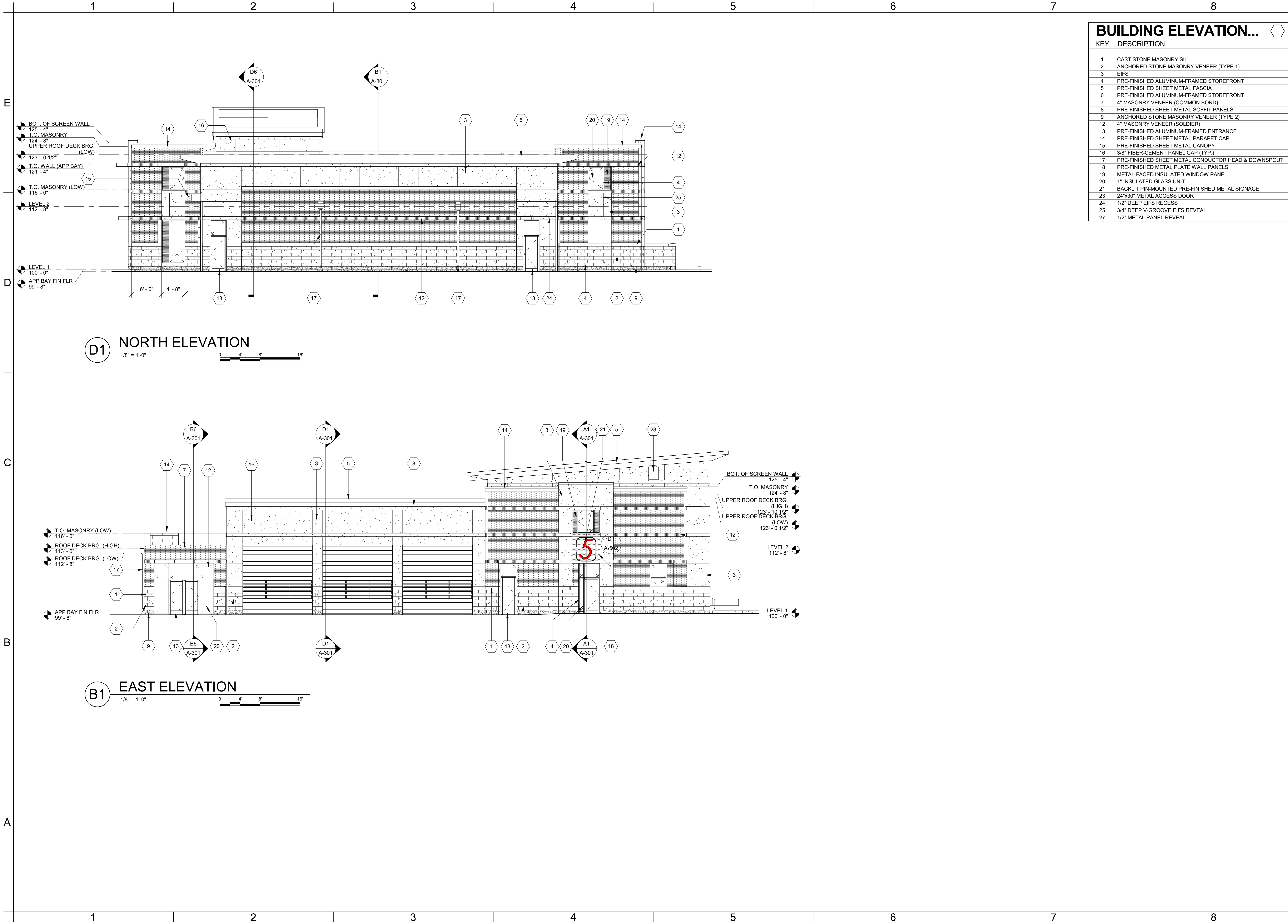
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ROOF PLAN

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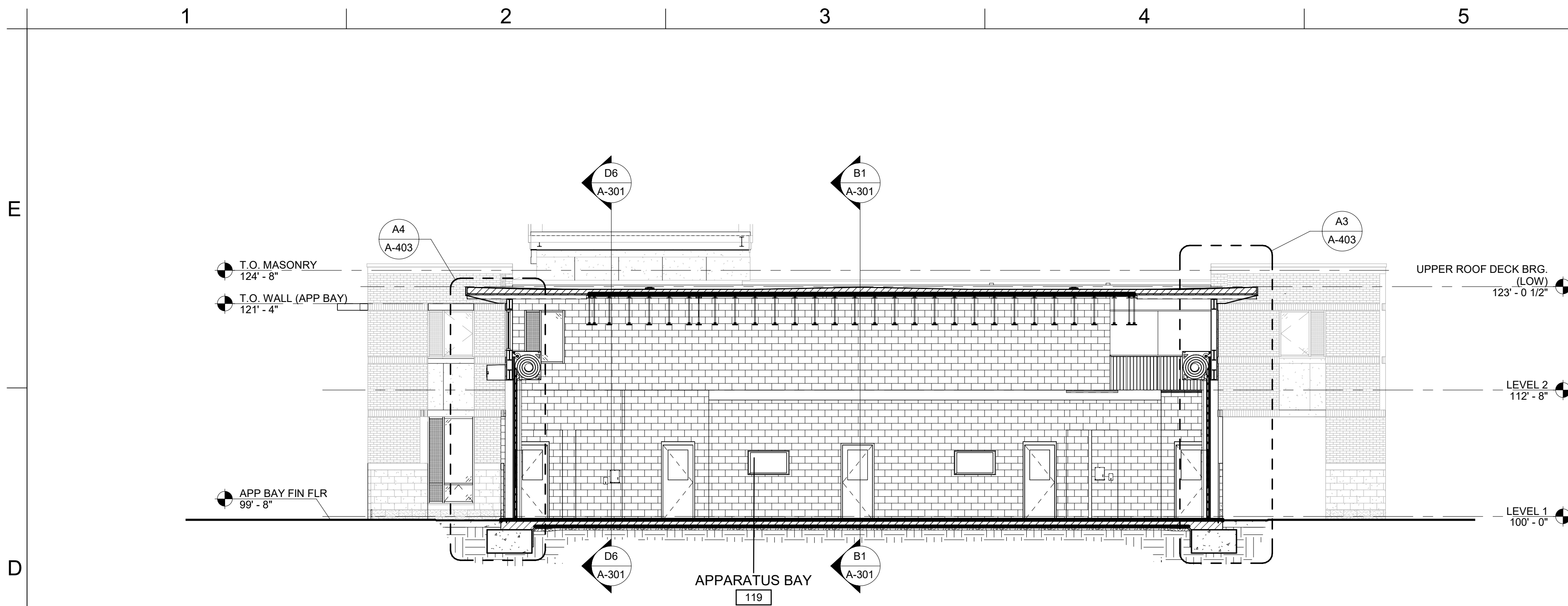
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DRAWN BY: JSP
CHK'D BY: GLW

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**BUILDING
ELEVATIONS**

A-201

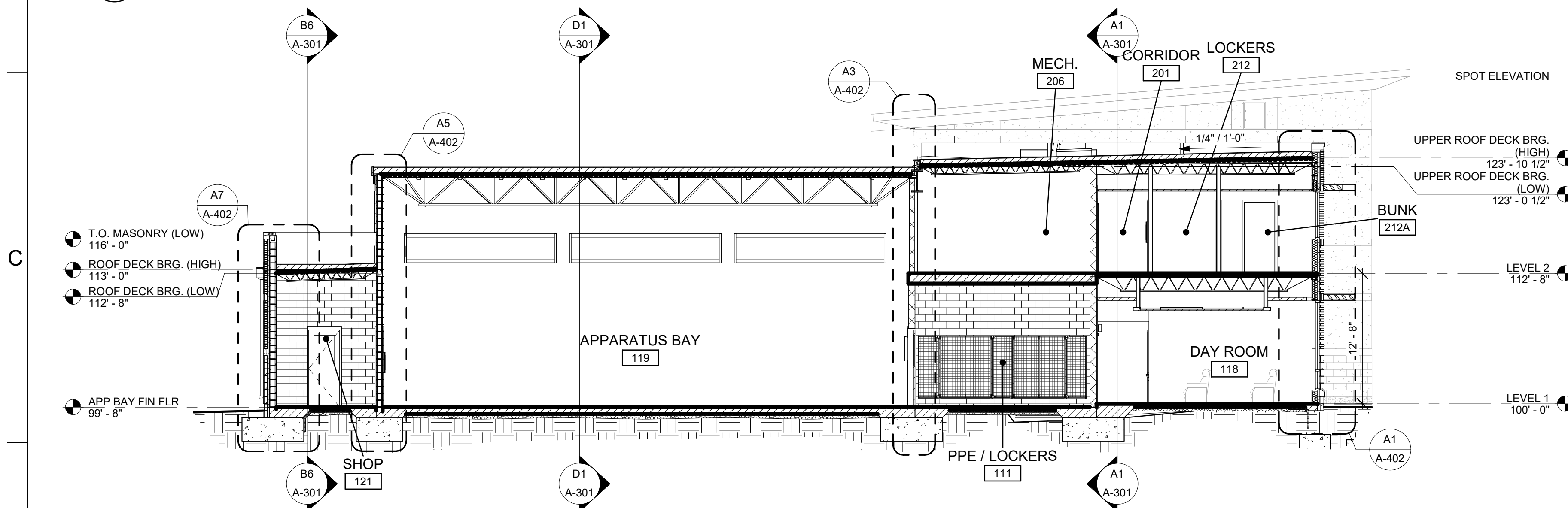
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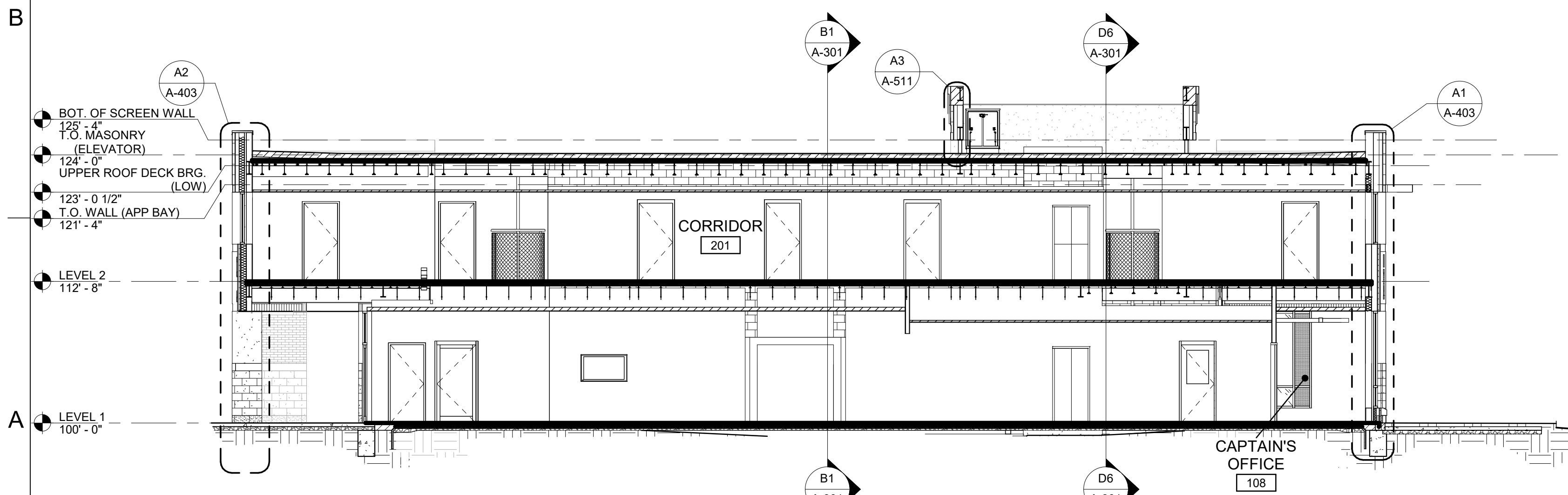
D1 BUILDING SECTION

1/8" = 1'-0"

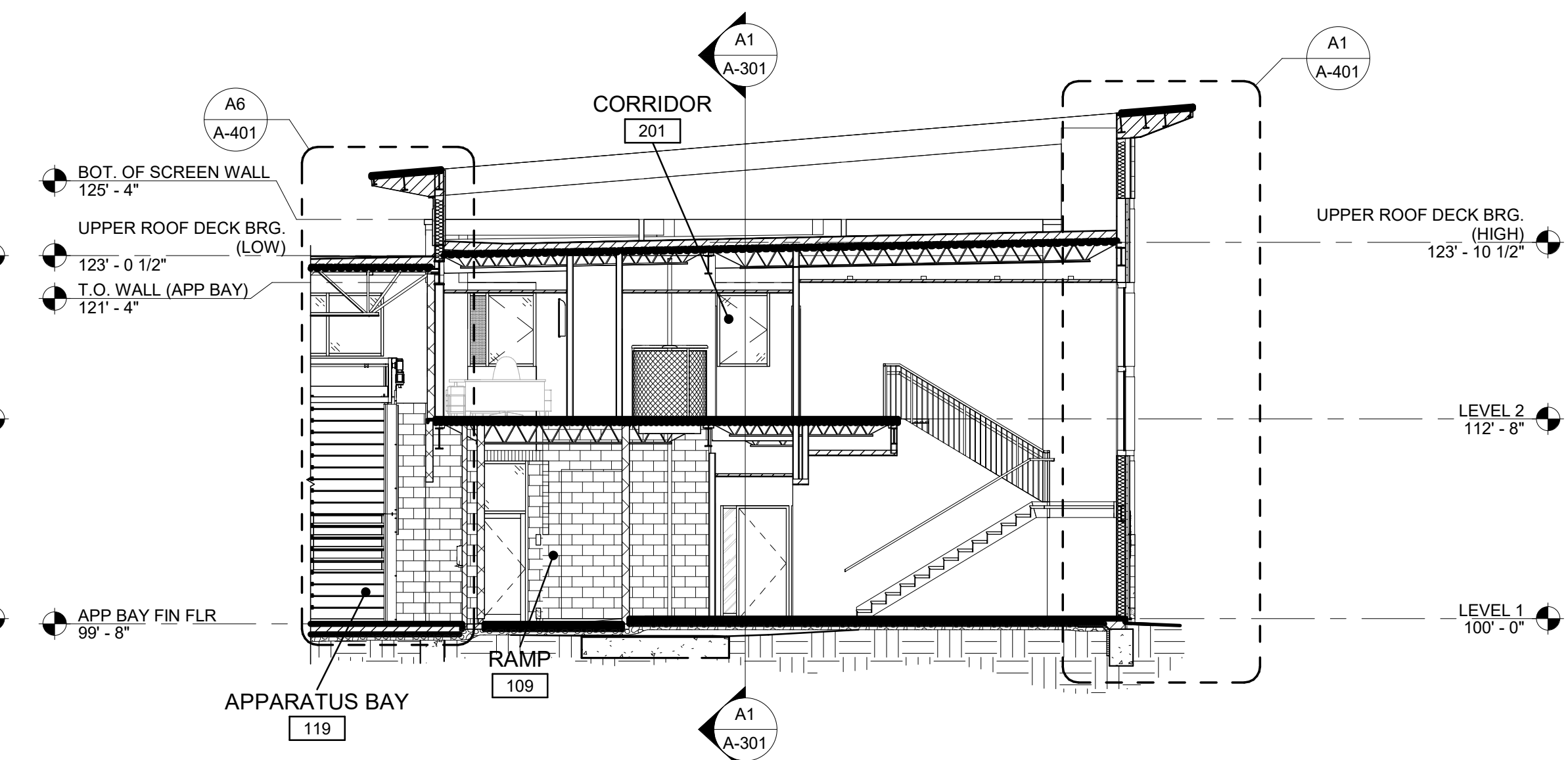
0 4' 8' 16'



B1 BUILDING SECTION
1/8" = 1'-0" 0 4' 8' 16'



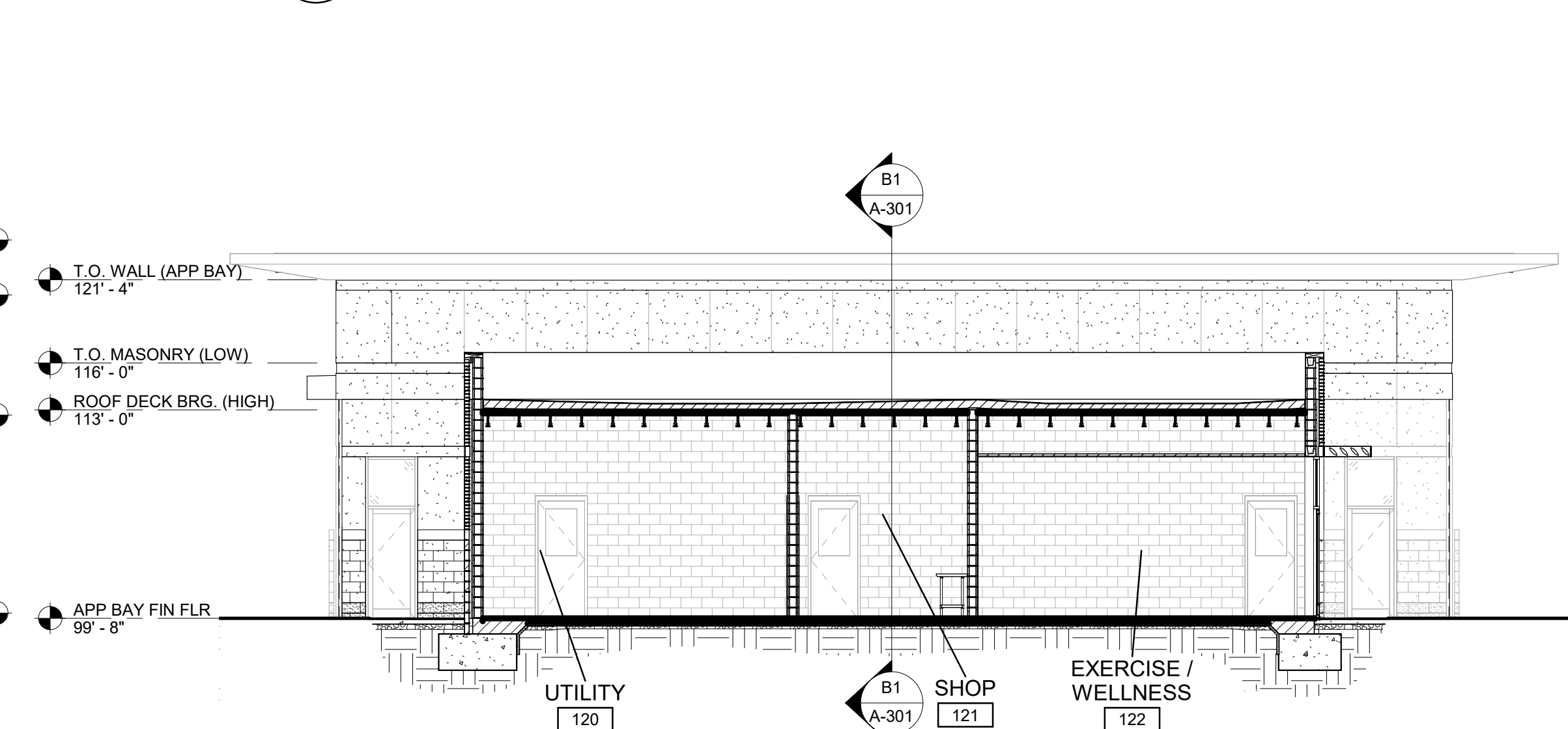
A1 BUILDING SECTION



D6 BUILDING SECTION

1/8" = 1'-0"

0 4' 8' 16'



B6 BUILDING SECTION
1/8" = 1'-0"



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FIRE STATION #5
CITY OF LEE'S SUMMIT
8801 MISSOURI HIGHWAY 150
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DATE: 10.27.20

DRAWN BY: JS

CHK'D BY:	P.
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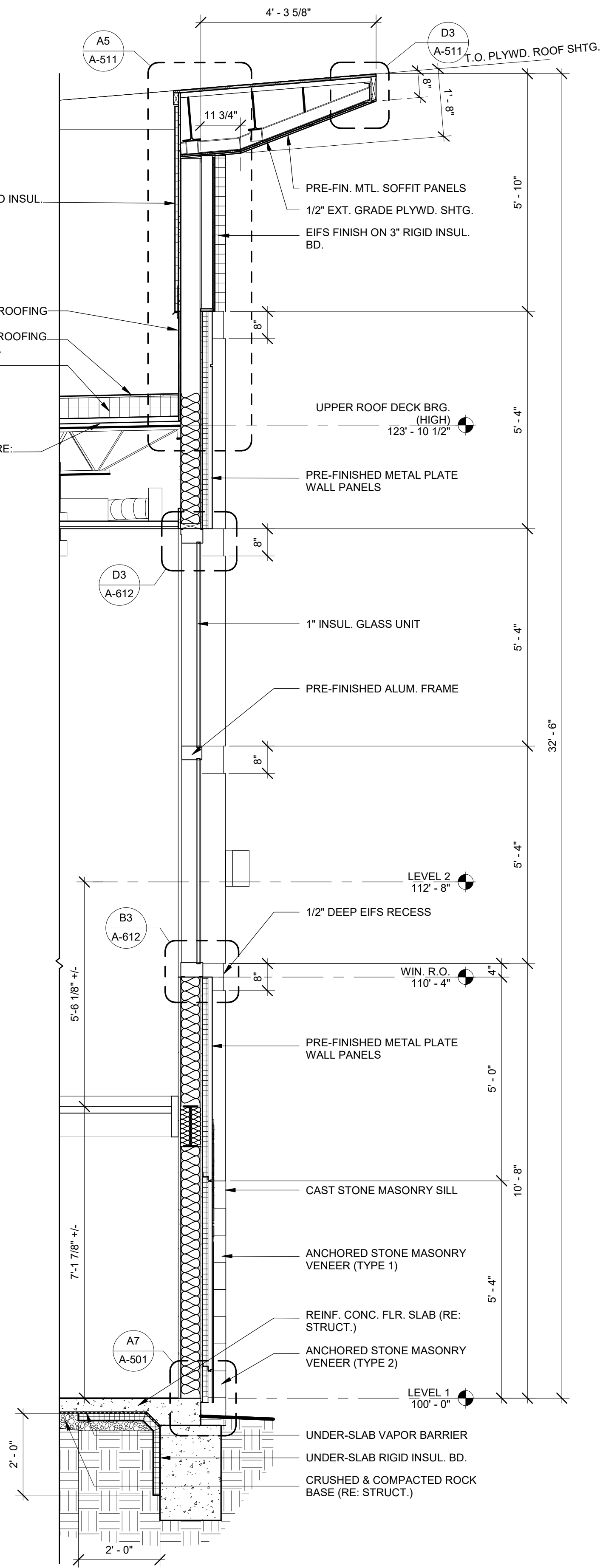
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BUILDING SECTIONS

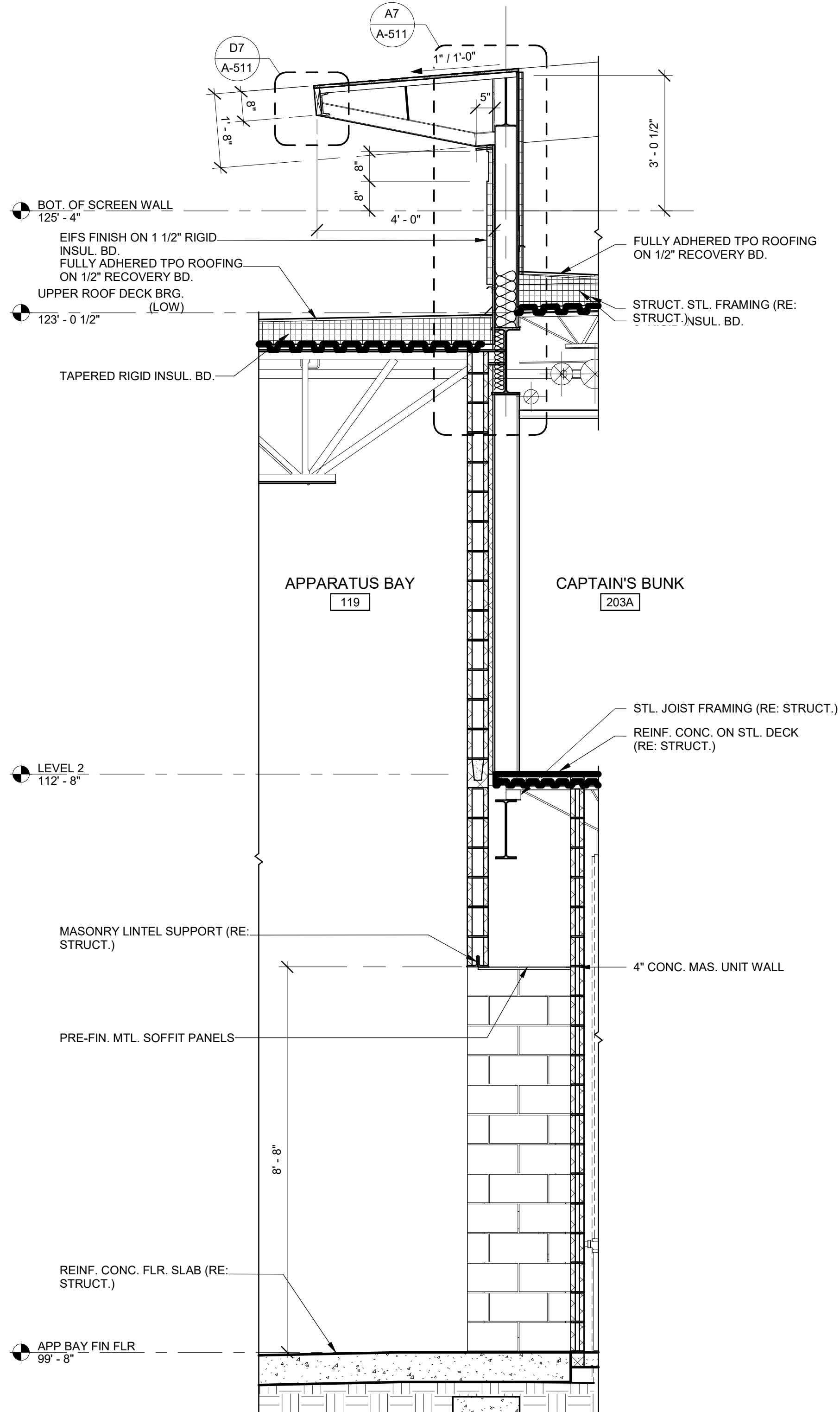
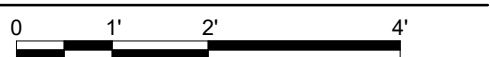
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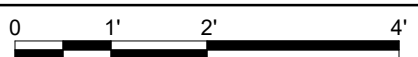
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A1 STAIR SECTION
1/2" = 1'-0"



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



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DRAWN BY: JSP
CHK'D BY: GLW

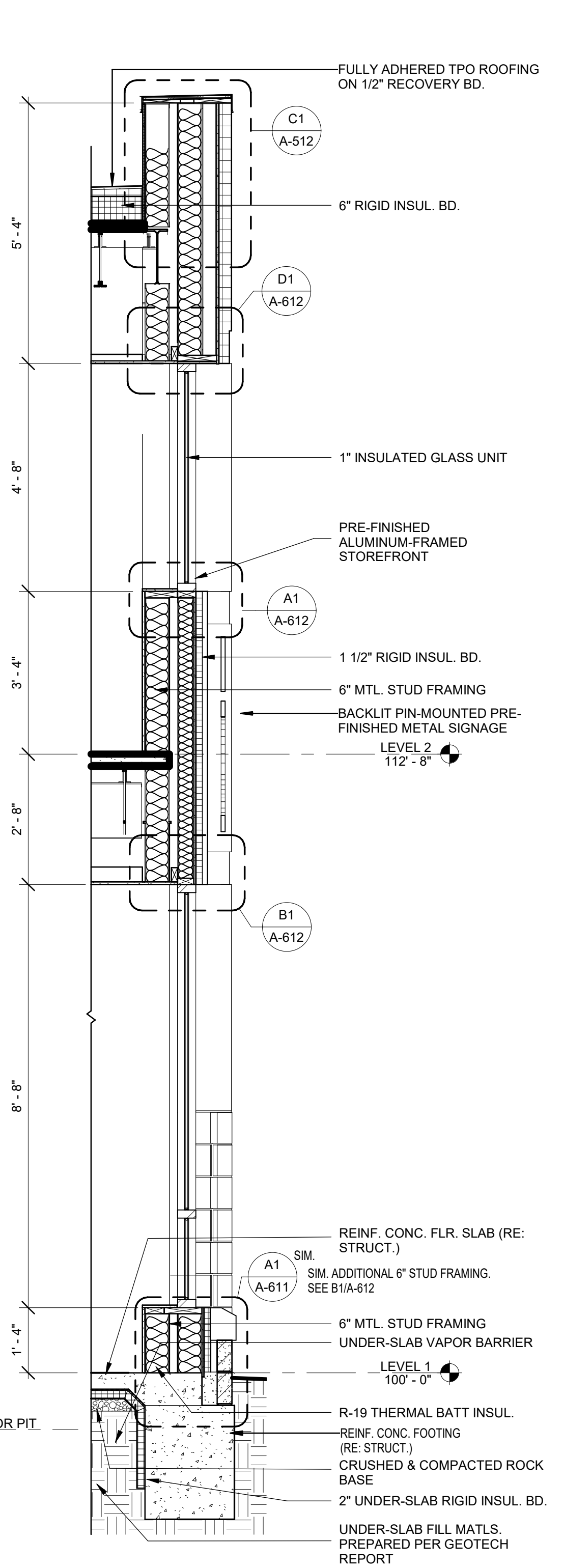
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WALL SECTIONS

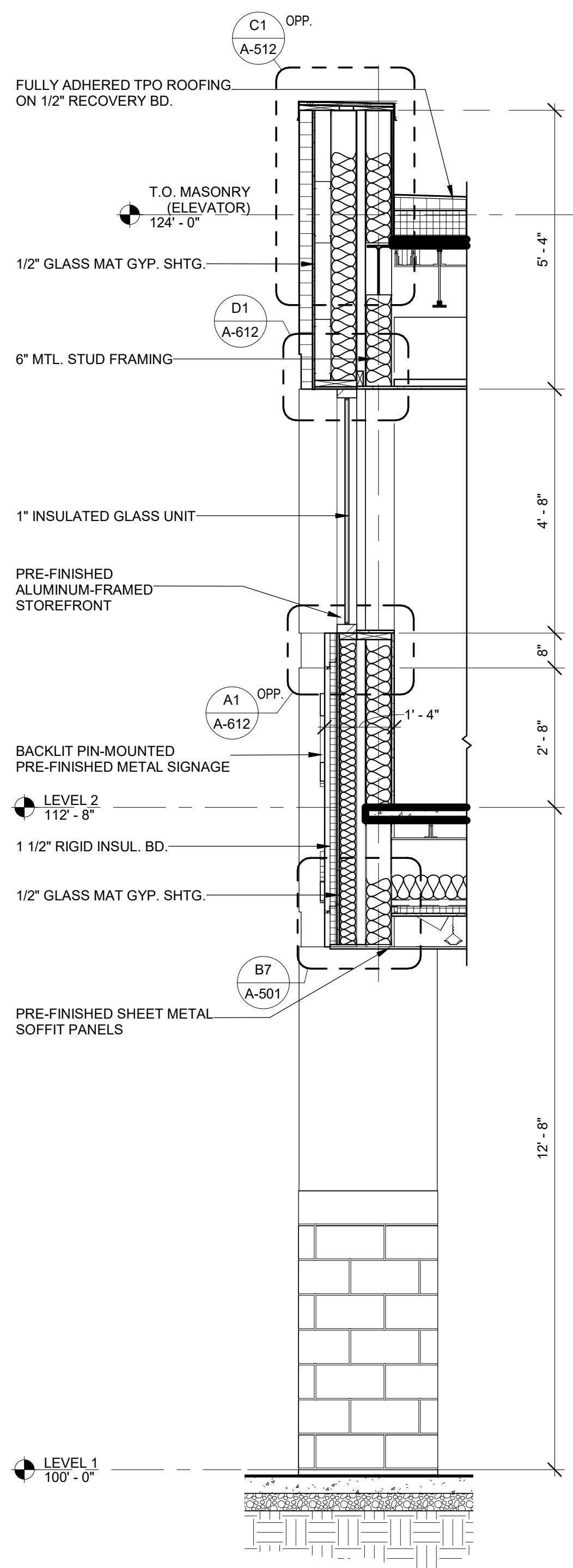
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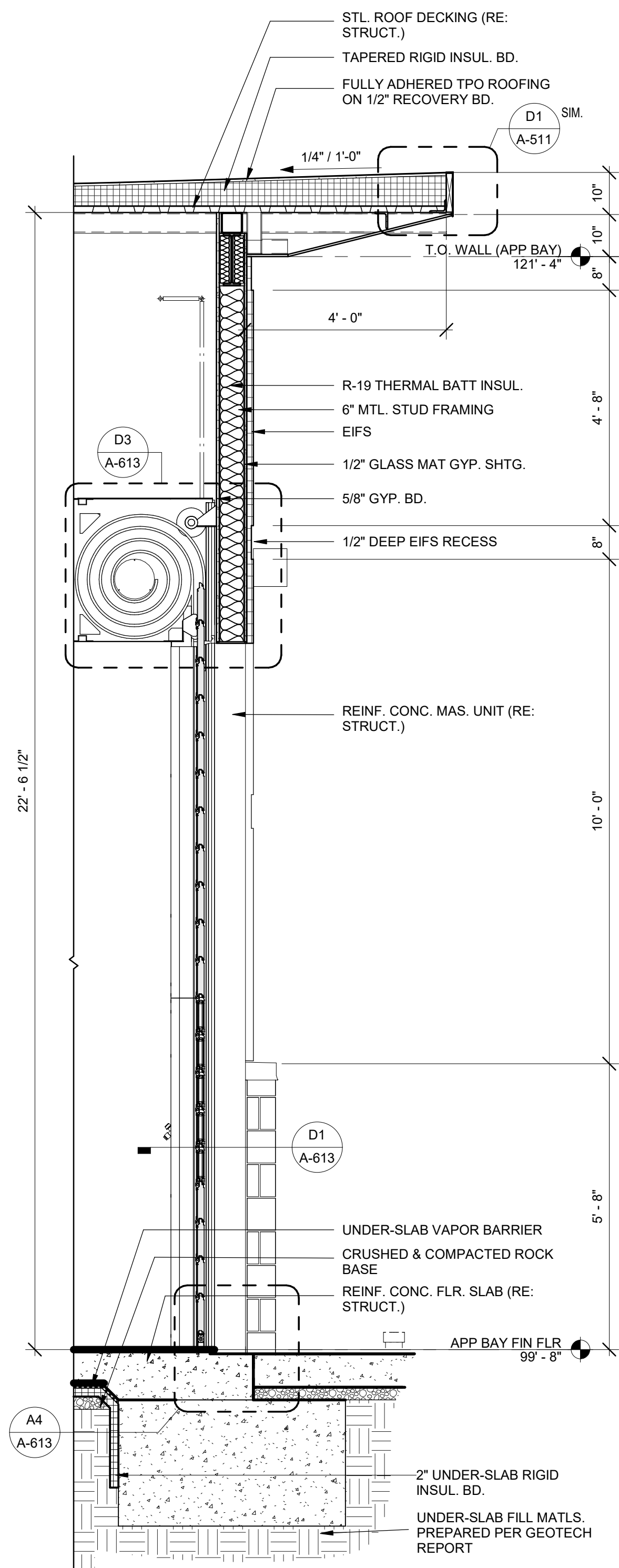
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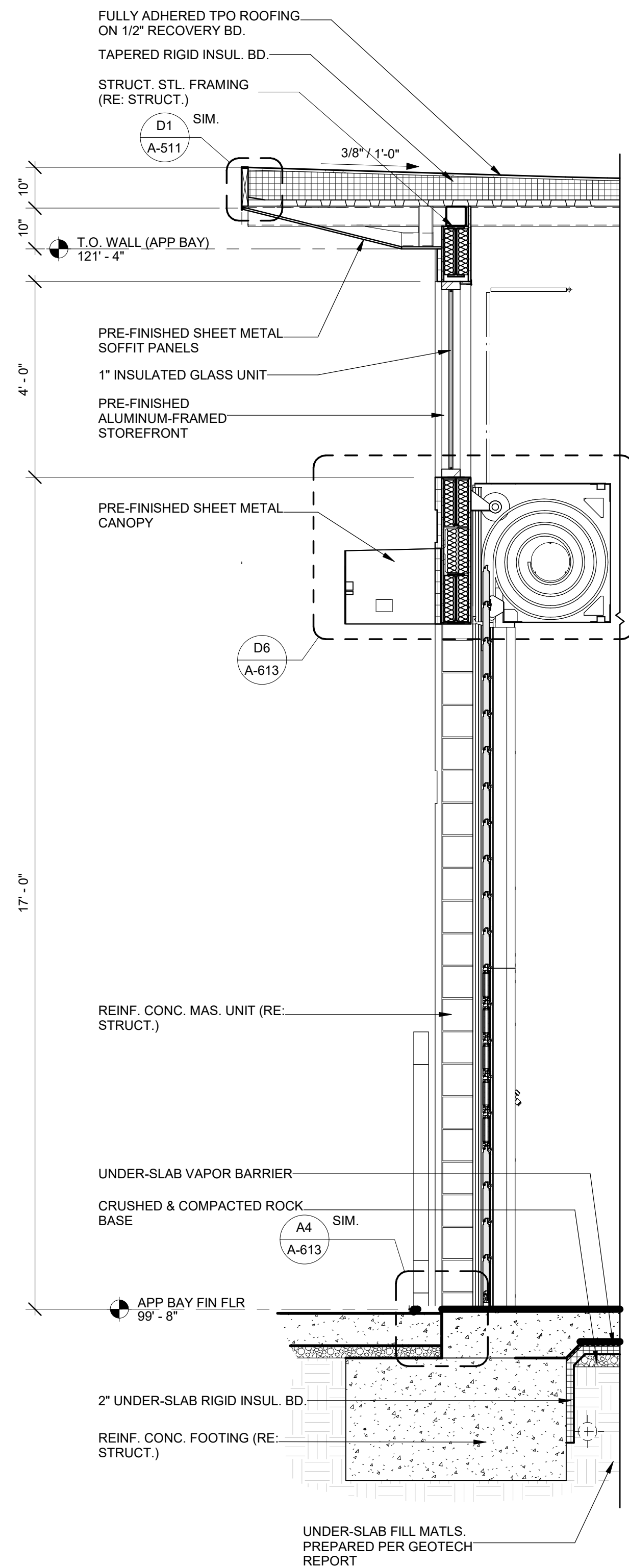
A1 WALL SECTION
1/2" = 1'-0"



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



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



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

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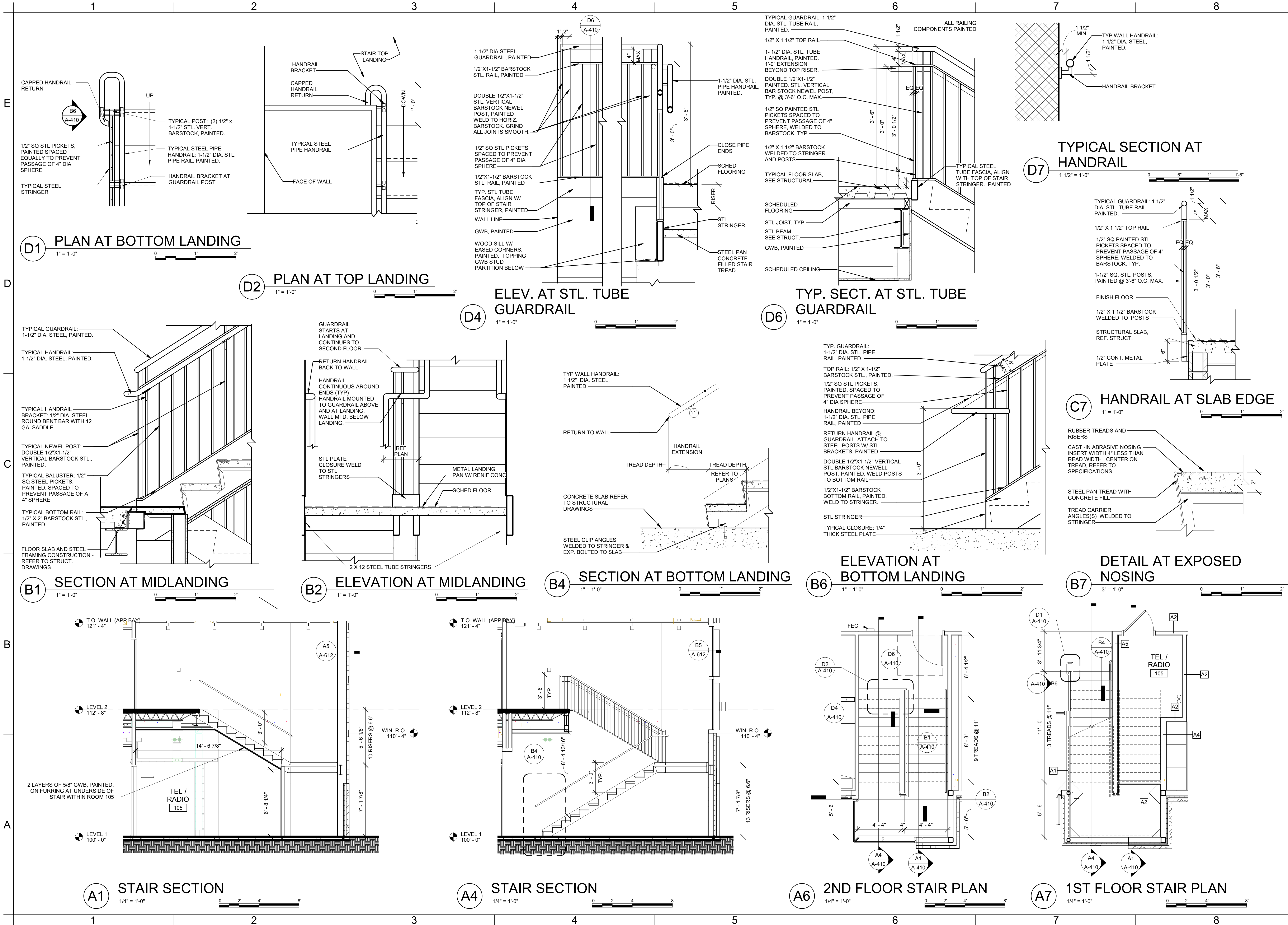
PROJECT NO:	18225R210
DATE:	10.27.20
DRAWN BY:	JS
CHK'D BY:	GL

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E

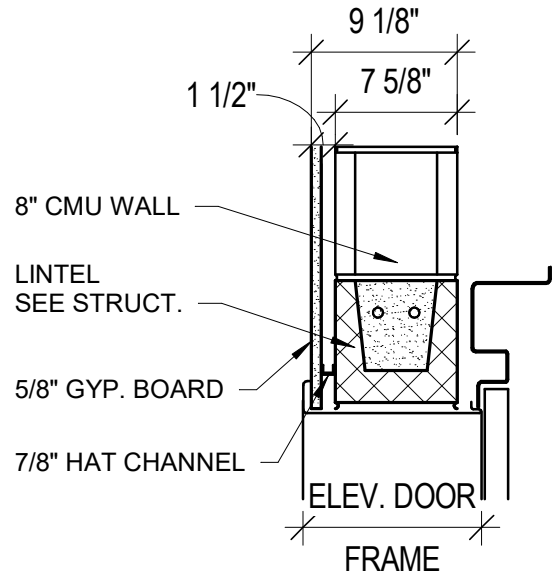
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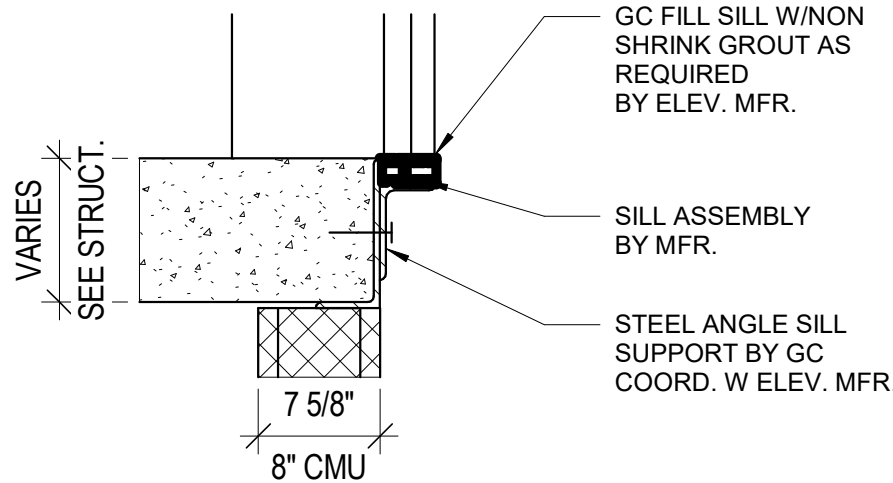
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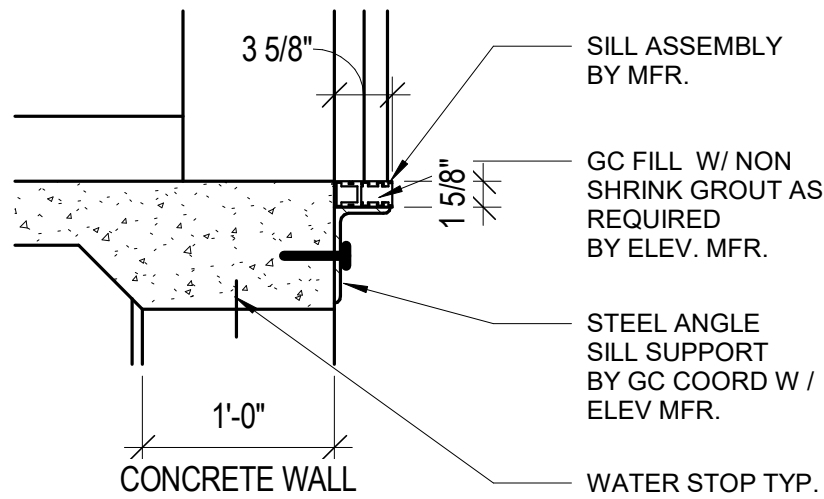
ELEVATOR DOOR HEAD - TYP.

C5



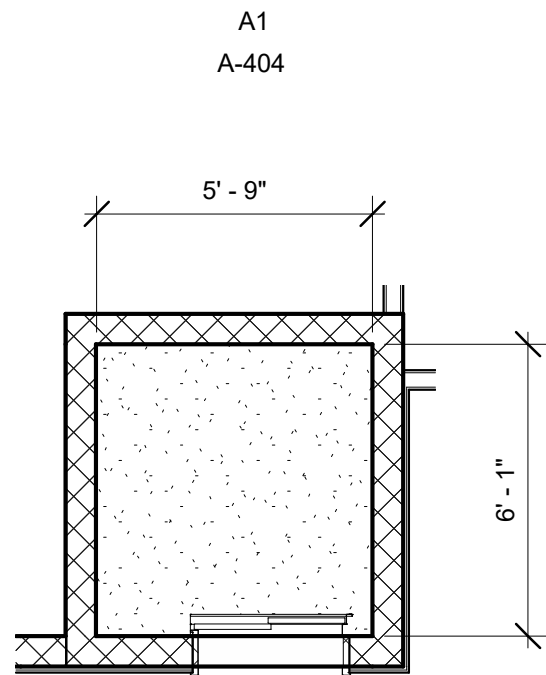
ELEVATOR - DOOR SILL TYP.

B5



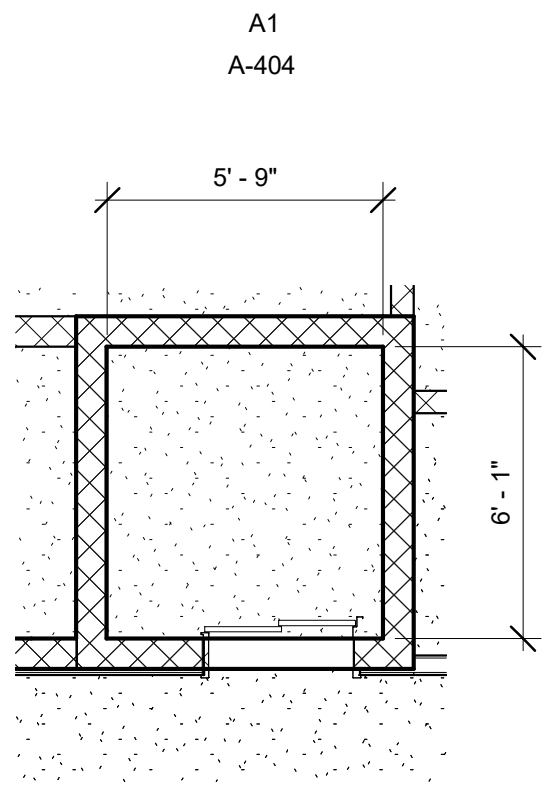
ELEVATOR DOOR SILL 1ST FLOOR

A5



ENL. ELEVATOR PLAN - 2ND FLOOR

B7



ENL. ELEVATOR PLAN - 1ST FLOOR

A7



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DRAWN BY:	JSP
CHK'D BY:	PJM

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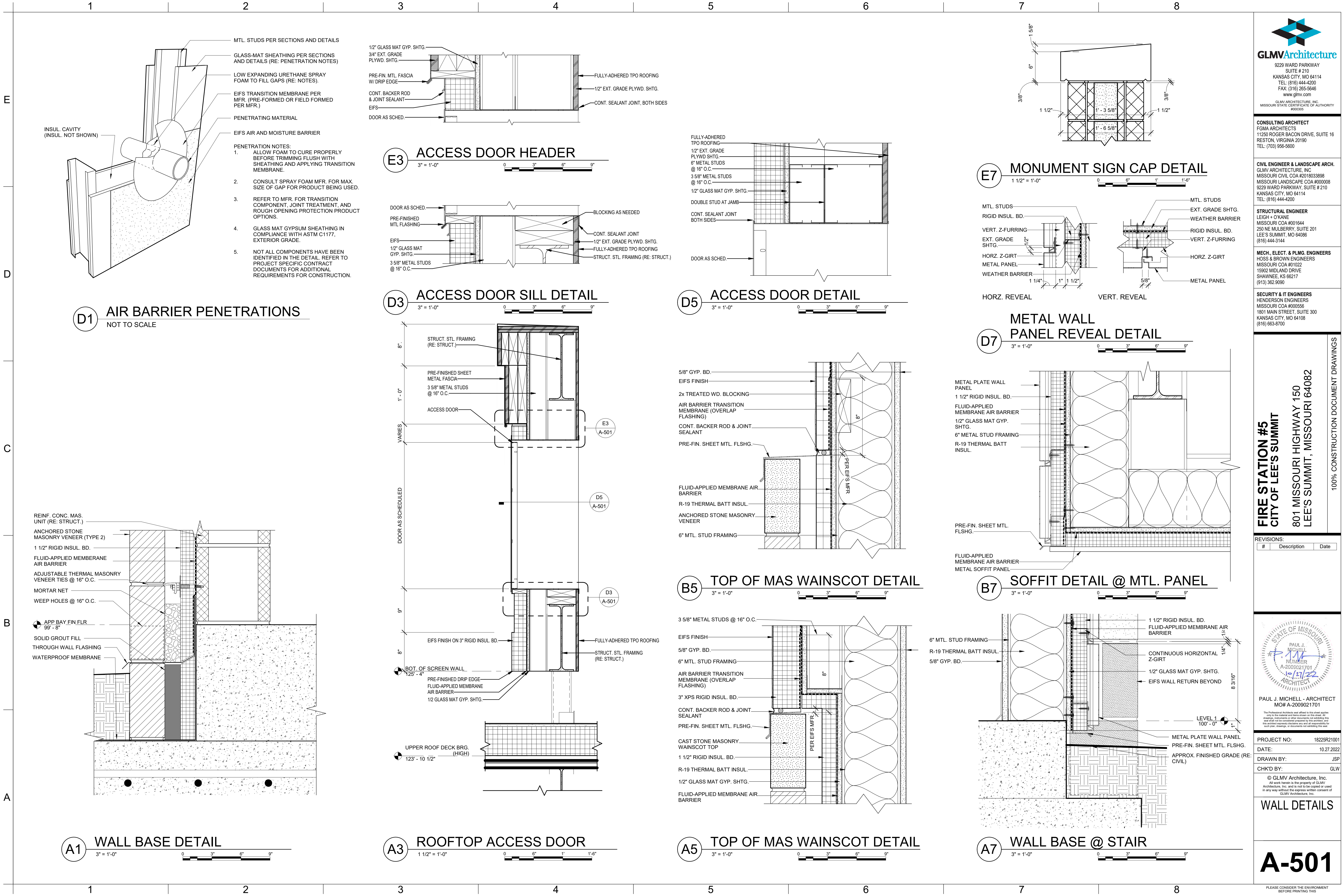
ENLARGED
ELEVATOR PLAN

A-411

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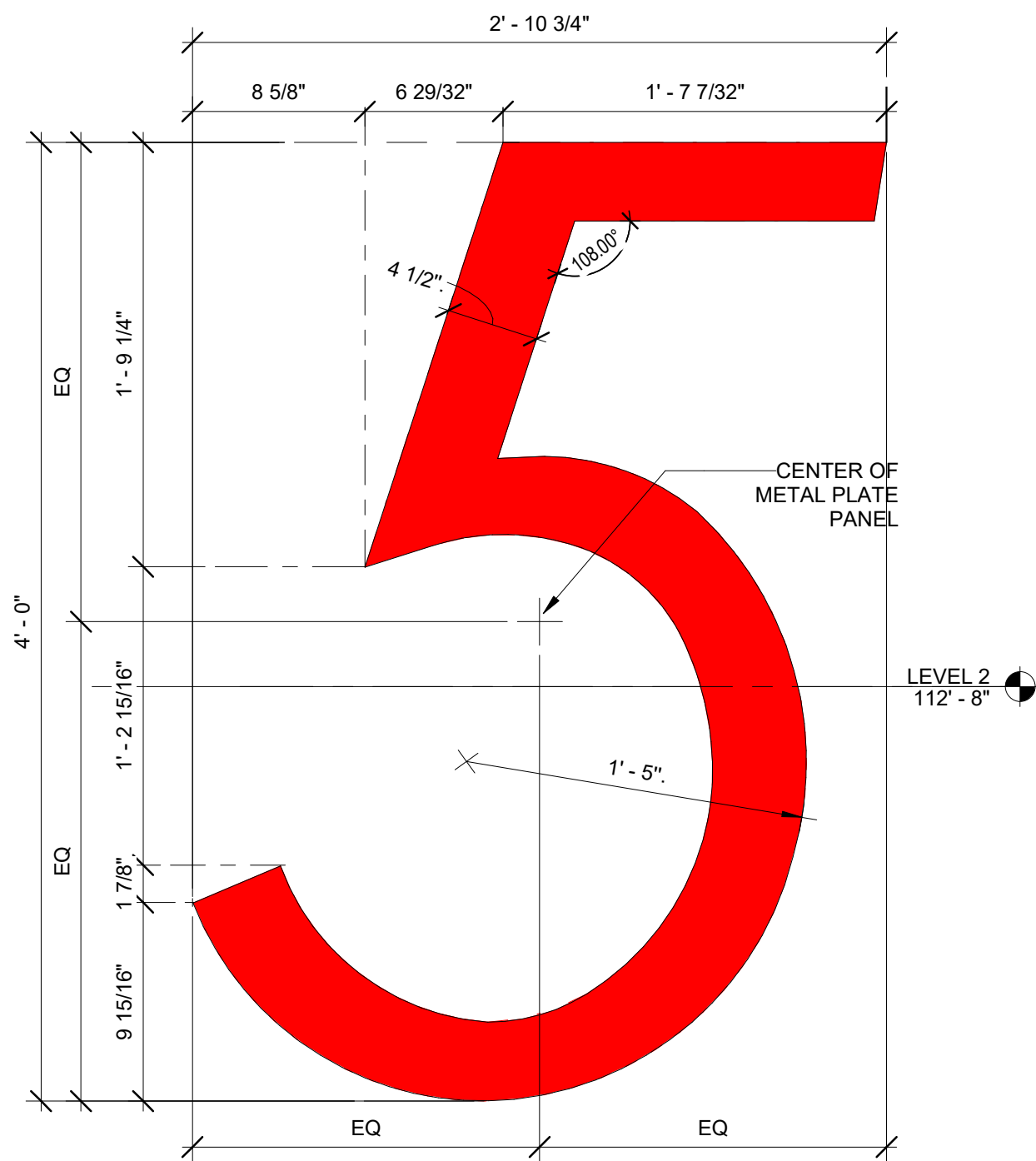
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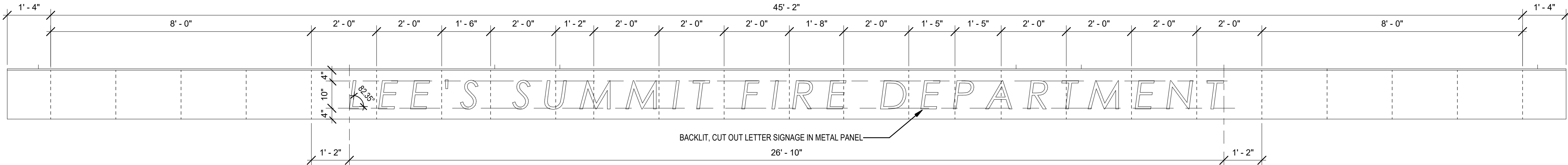
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D1 SIGNAGE DETAIL

1 1/2" = 1'-0"

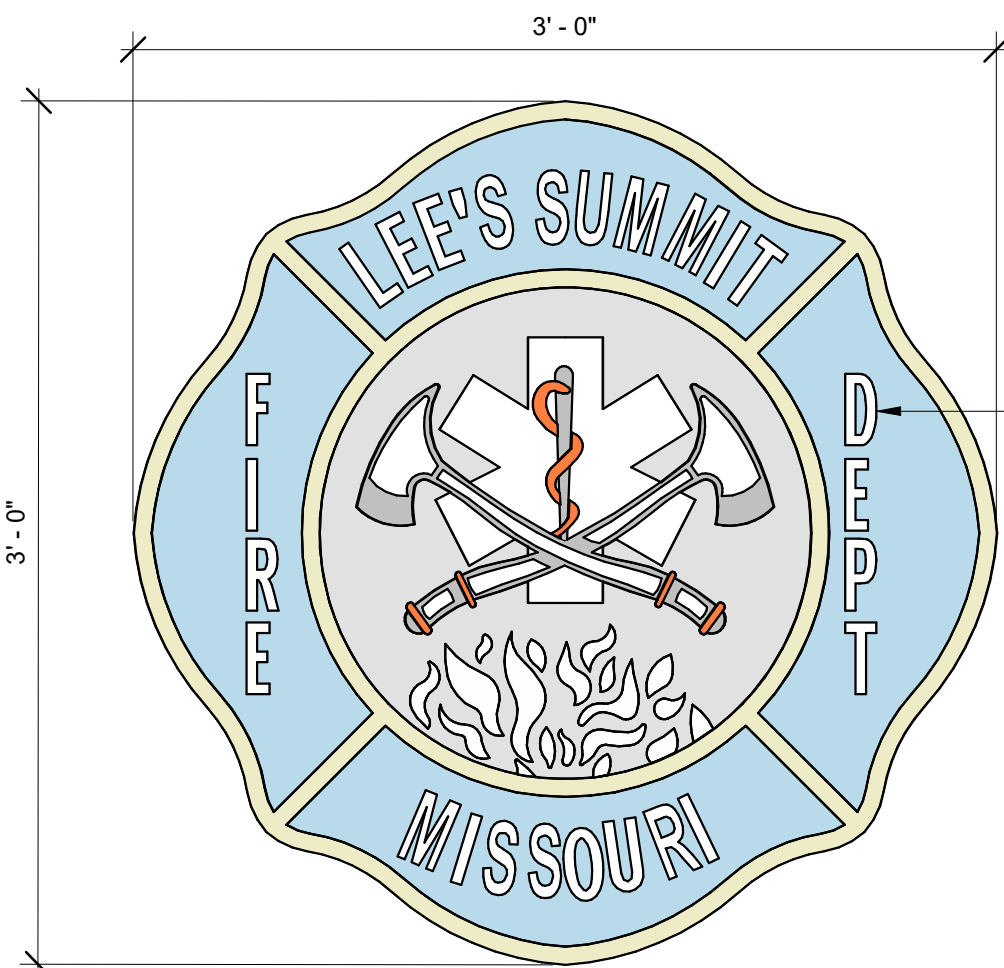
0 6" 1' 1'-6"



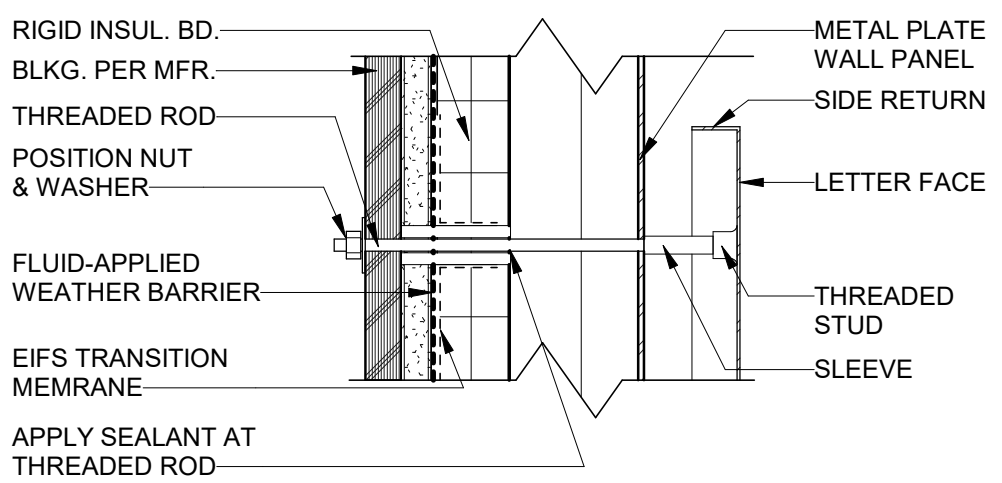
C1 CANOPY SIGN DETAIL

1/2" = 1'-0"

0 1' 2' 4'



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



A4 SIGNAGE ATTACHMENT DETAIL

3" = 1'-0"

0 3" 6" 9"

A1 FIRE DEPARTMENT CREST

1 1/2" = 1'-0"

0 6" 1' 1'-6"

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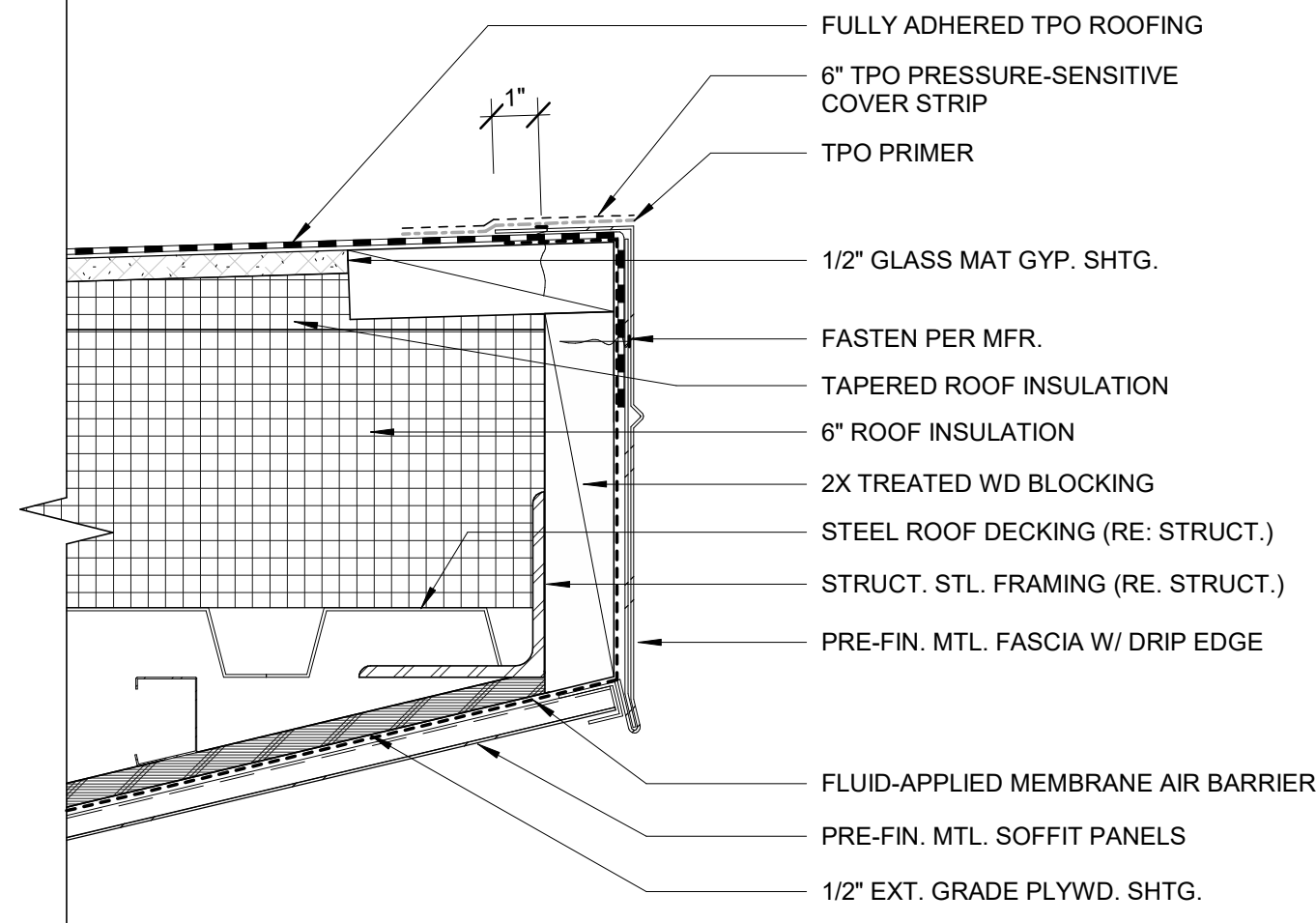
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WALL DETAILS

A-502

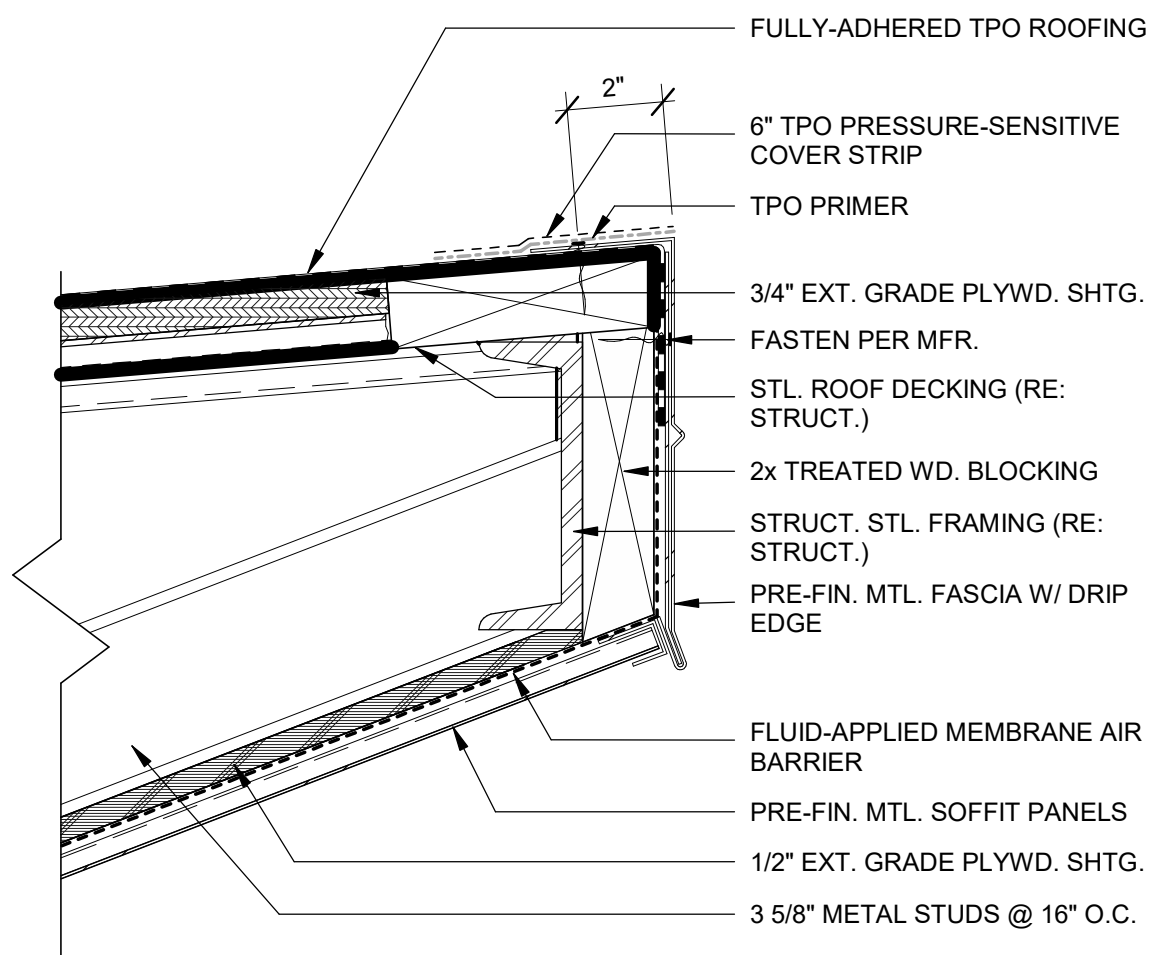
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C
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A

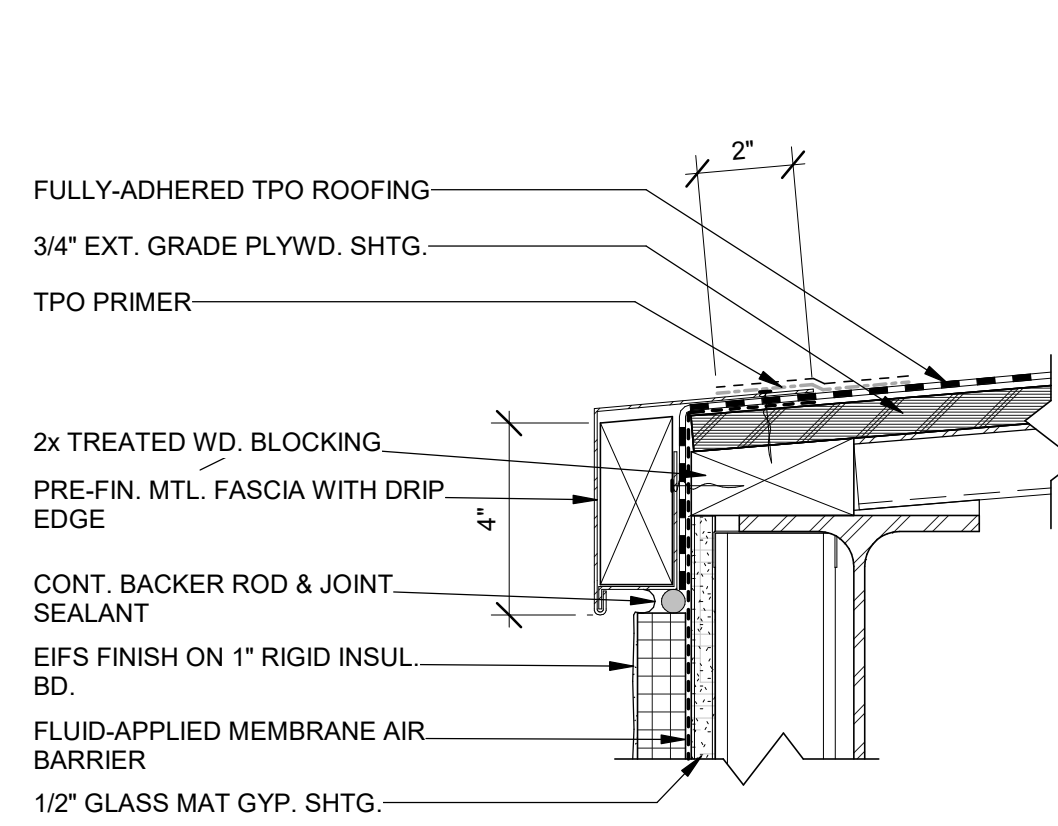


D1 ROOF - APP BAY (EAVE)
3" = 1'-0"

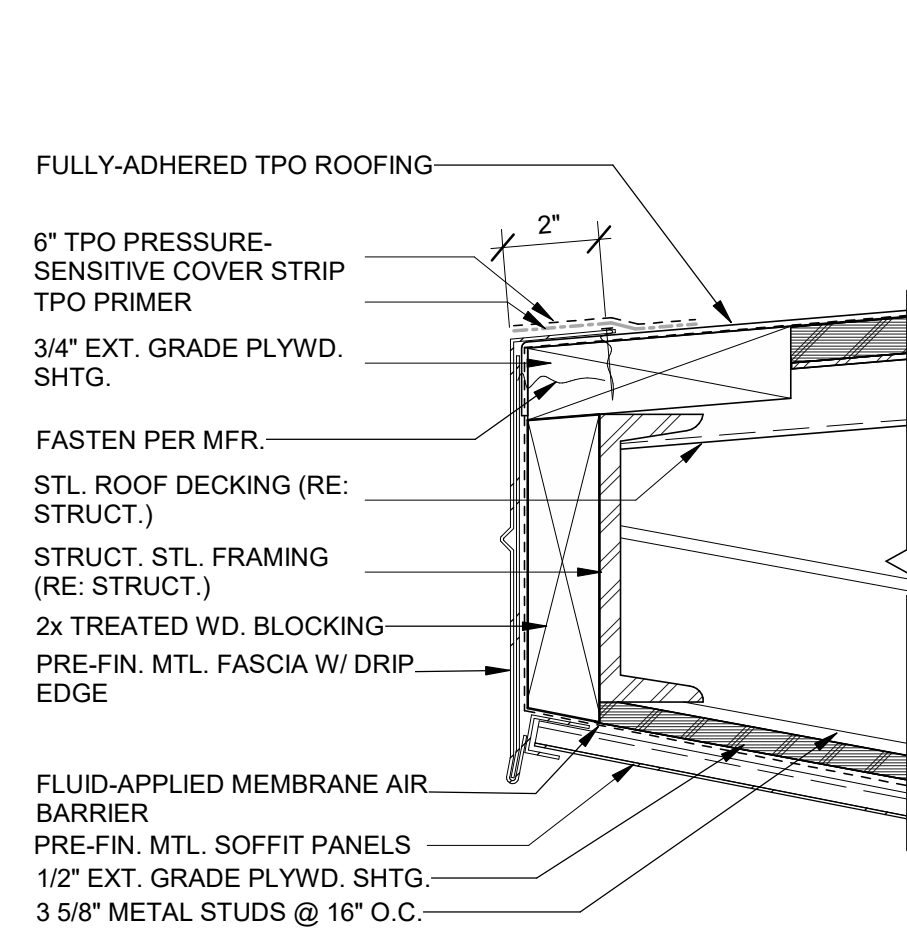
- DETAIL NOTES:
- METAL FASCIA DECK FLANGE TO BE COMPLETELY COVERED BY TPO PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" COVERAGE PAST NAIL HEADS.
 - WOOD BLOCKING TO EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
 - REMOVE ANY FINISHING OILS ON METAL FLASHING PER TPO MFR. (ALLOW TO DRY PRIOR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



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

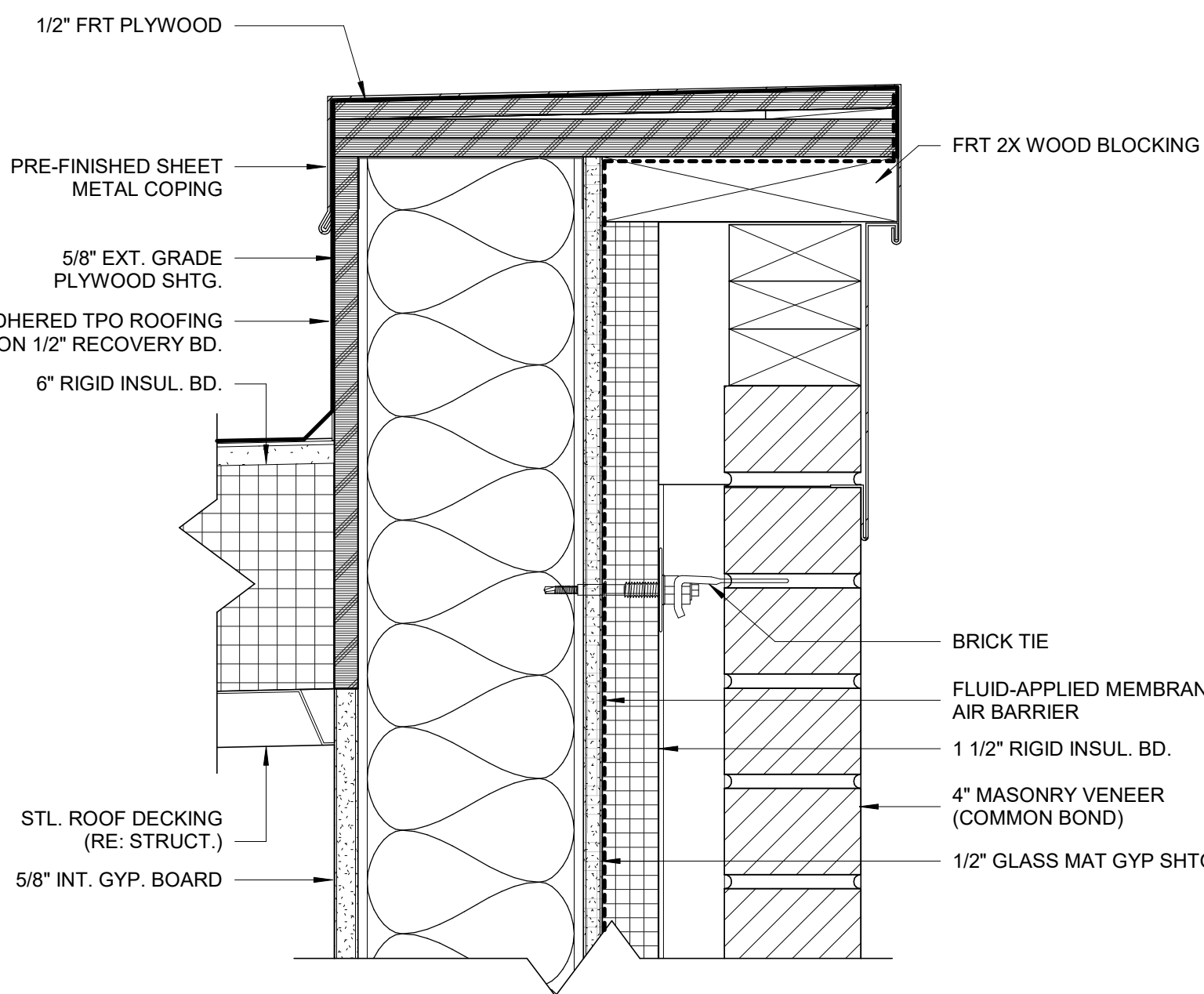


D5 ROOF EDGE DETAIL
3" = 1'-0"

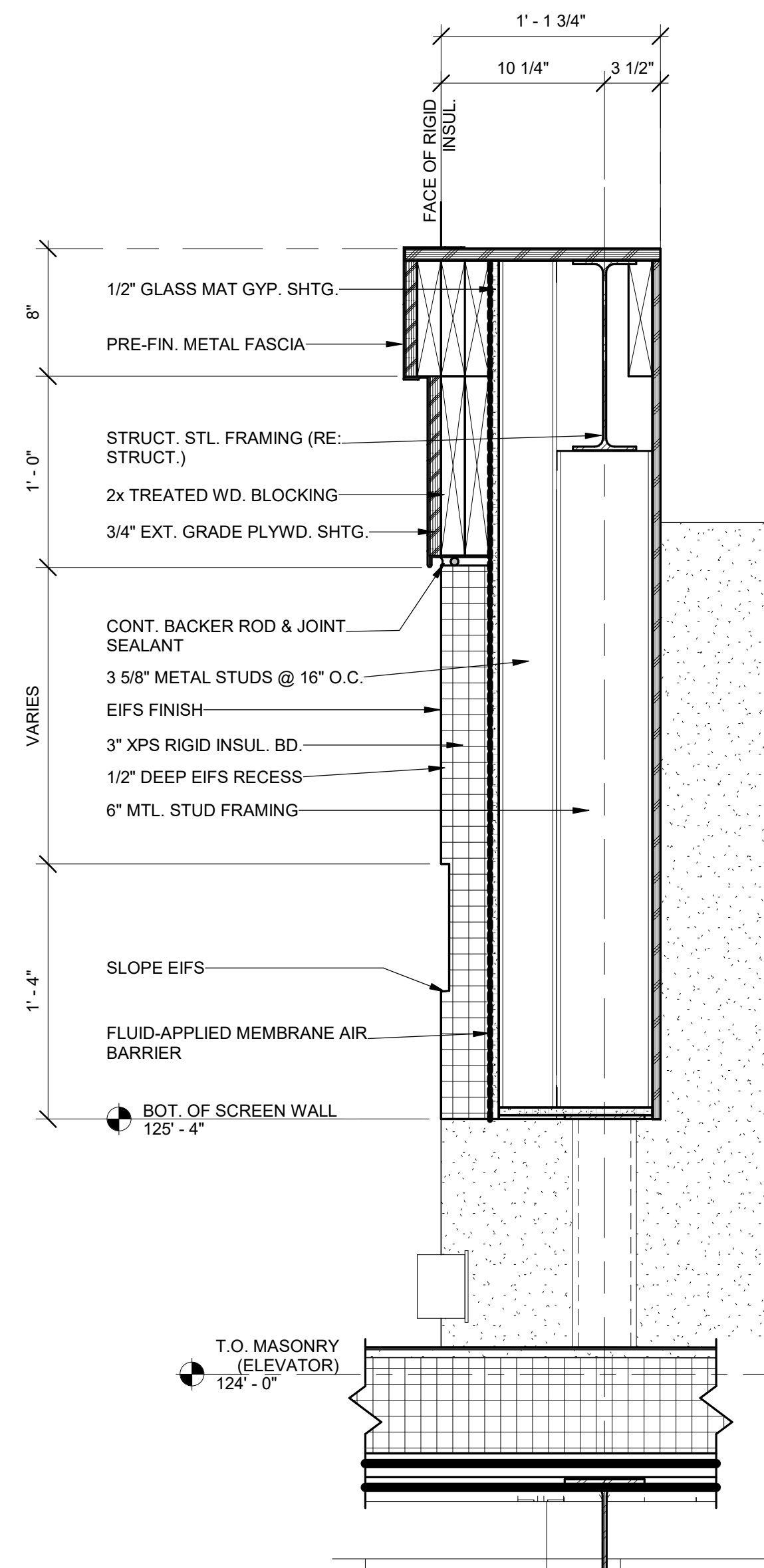


- DETAIL NOTES:
- METAL FASCIA DECK FLANGE TO BE COMPLETELY COVERED BY TPO PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" COVERAGE PAST NAIL HEADS.
 - WOOD BLOCKING TO EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
 - REMOVE ANY FINISHING OILS ON METAL FLASHING PER TPO MFR. (ALLOW TO DRY PRIOR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

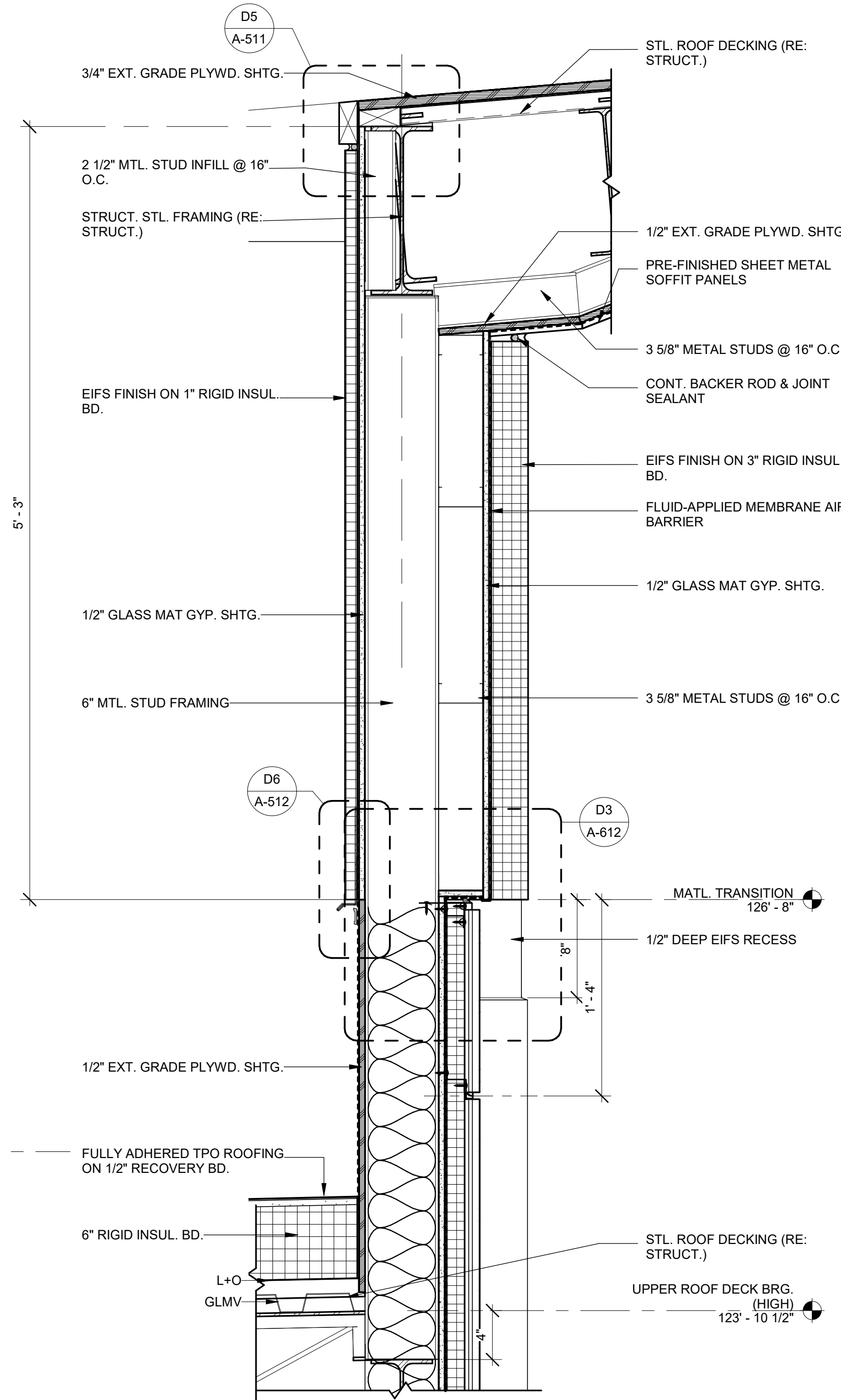
D7 ROOF EAVE DETAIL
3" = 1'-0"



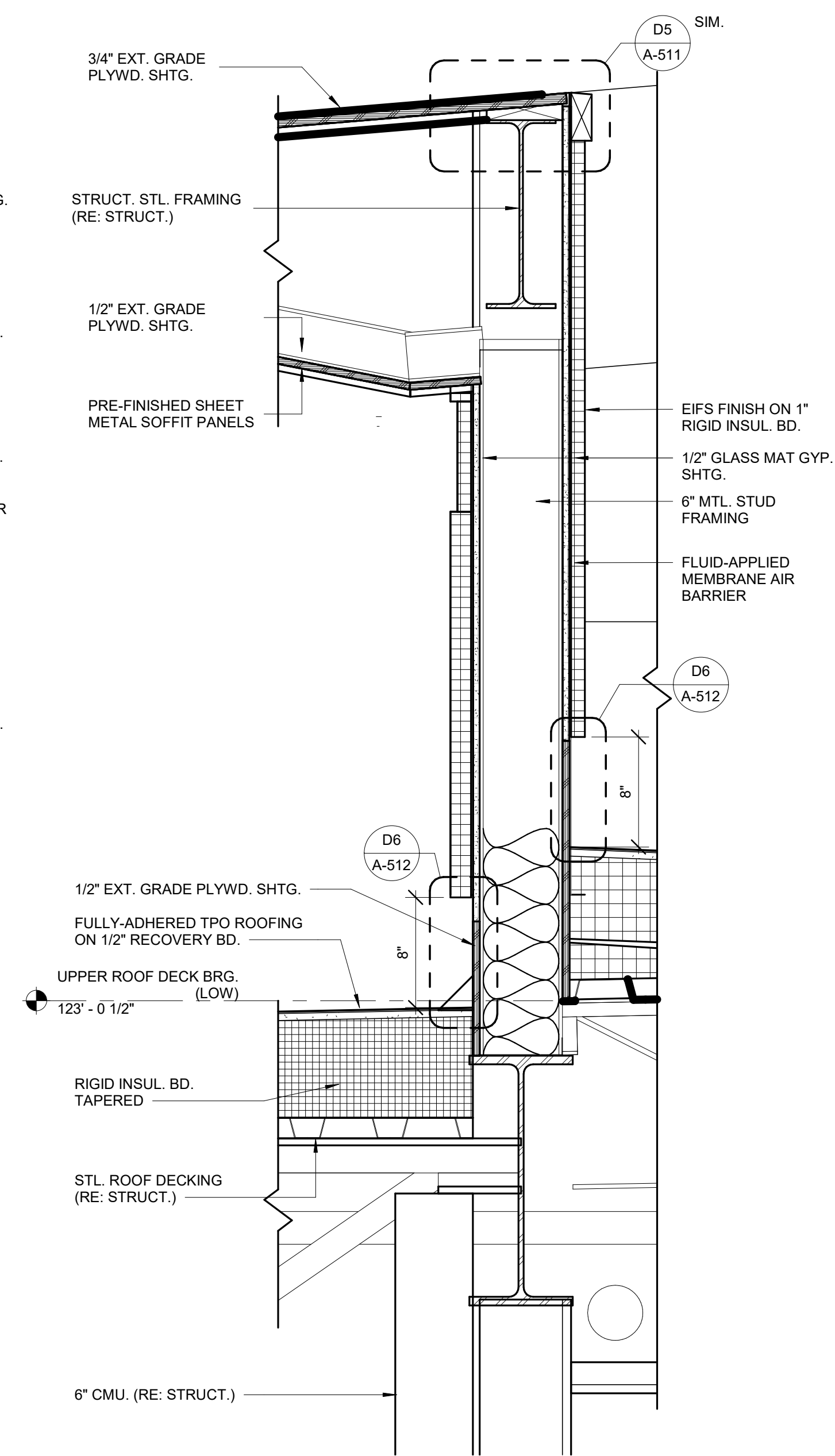
A1 PARAPET DETAIL
3" = 1'-0"



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



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



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



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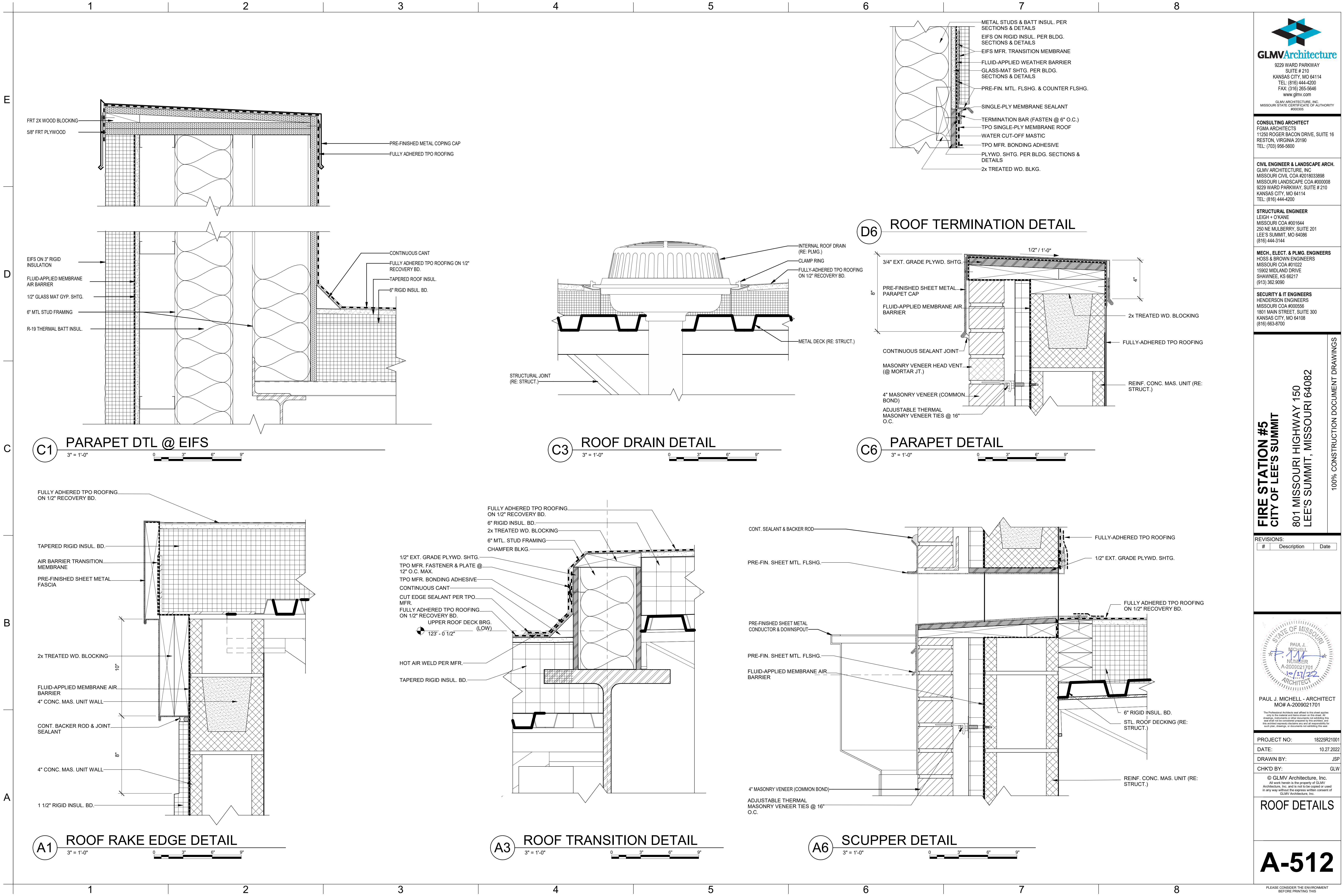
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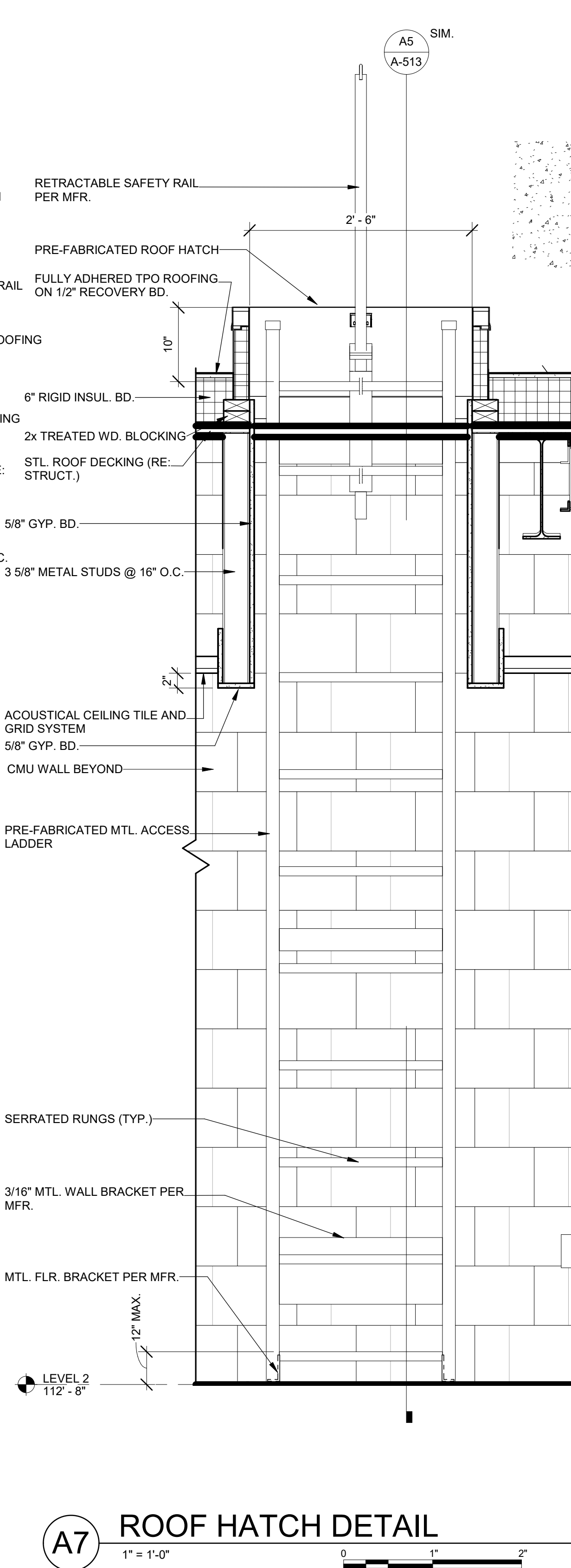
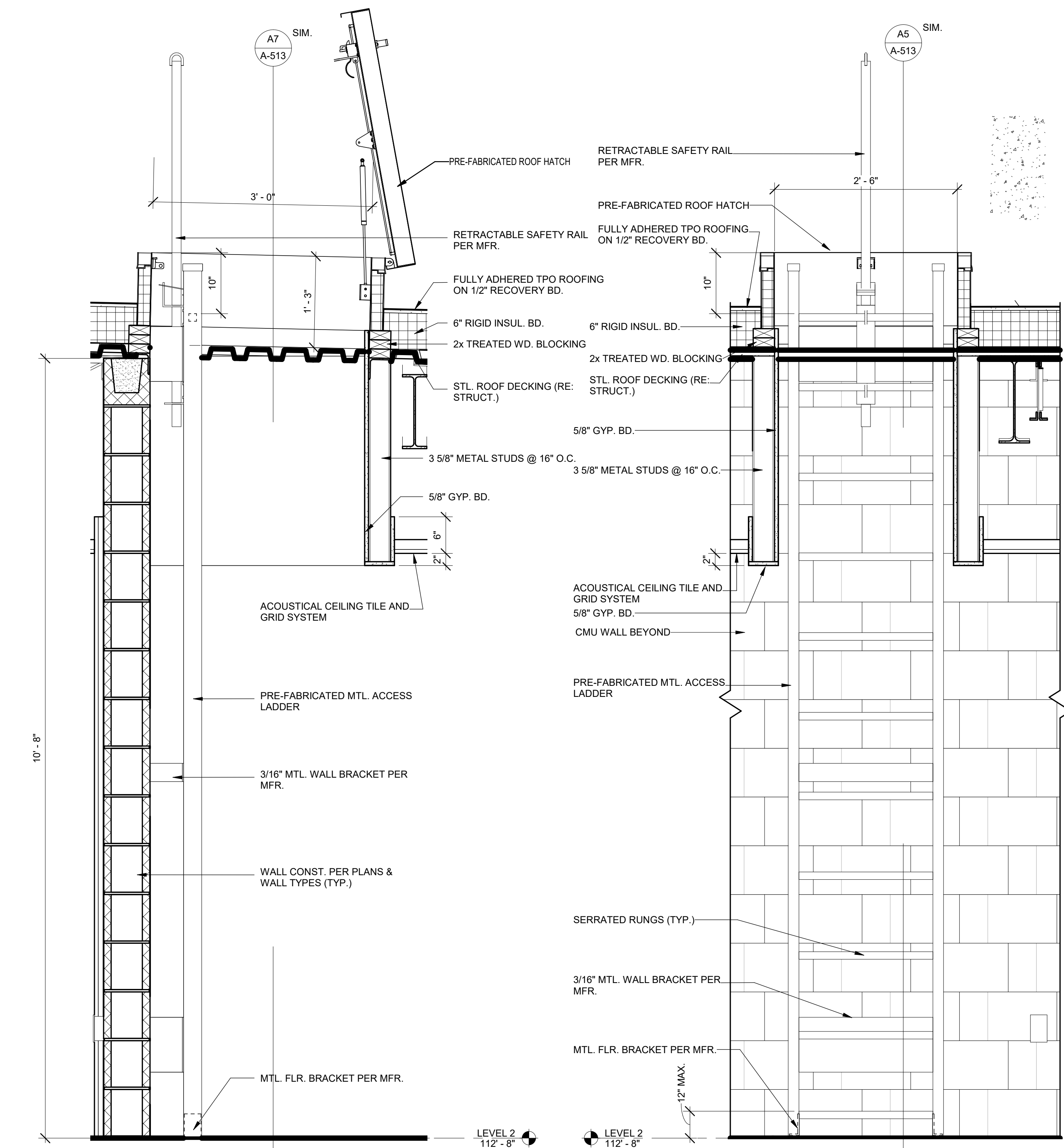
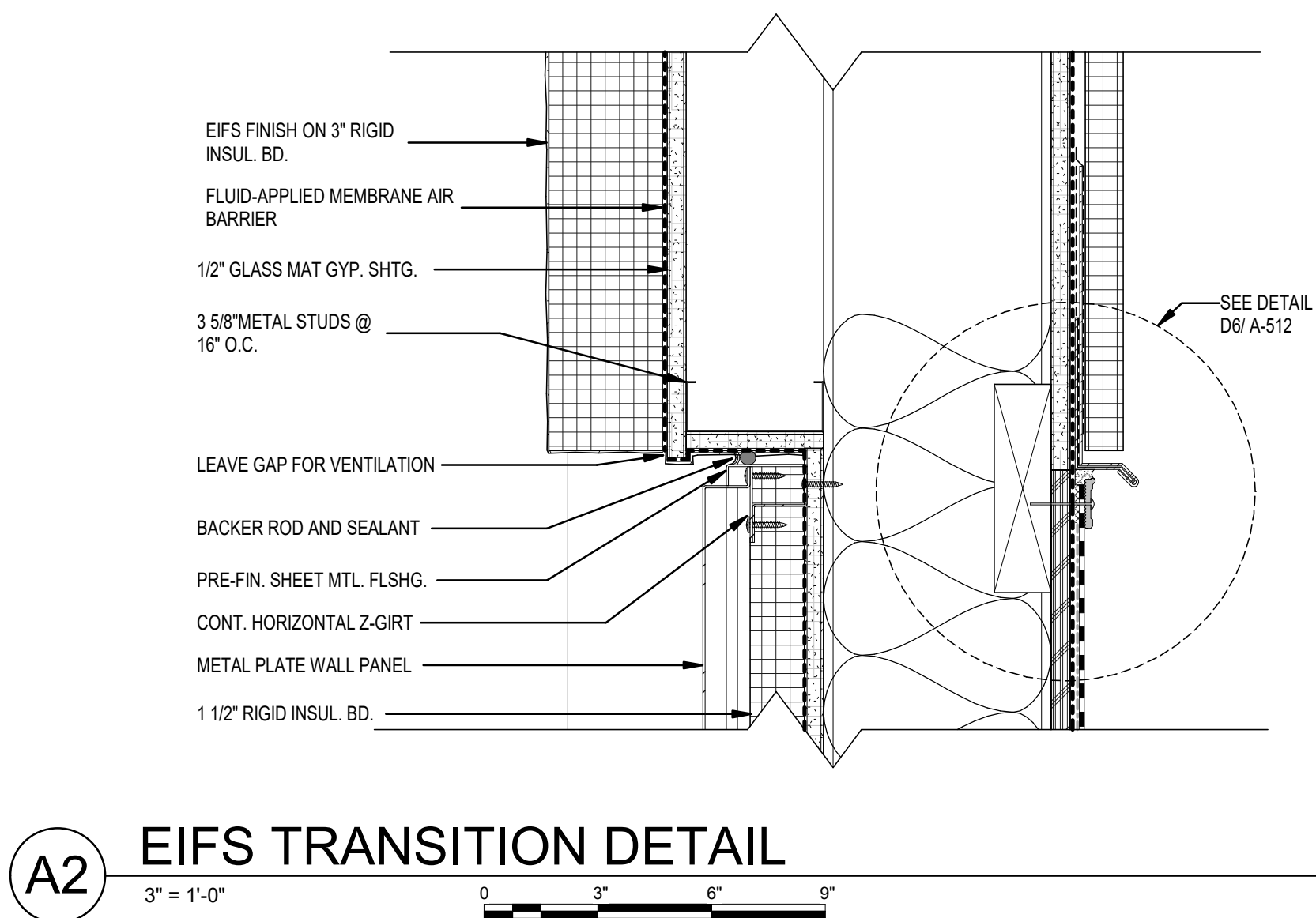
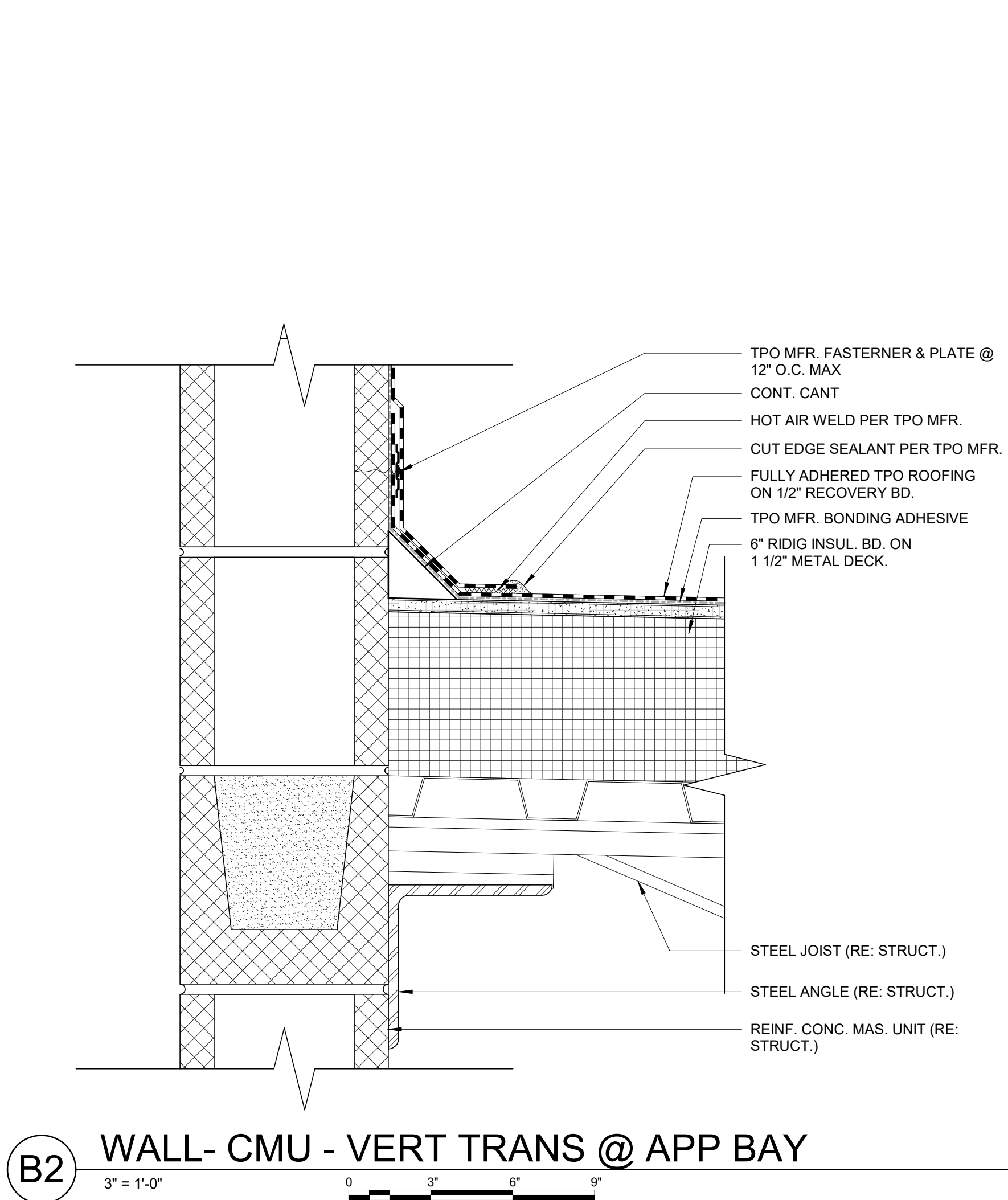
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CHK'D BY: PJM

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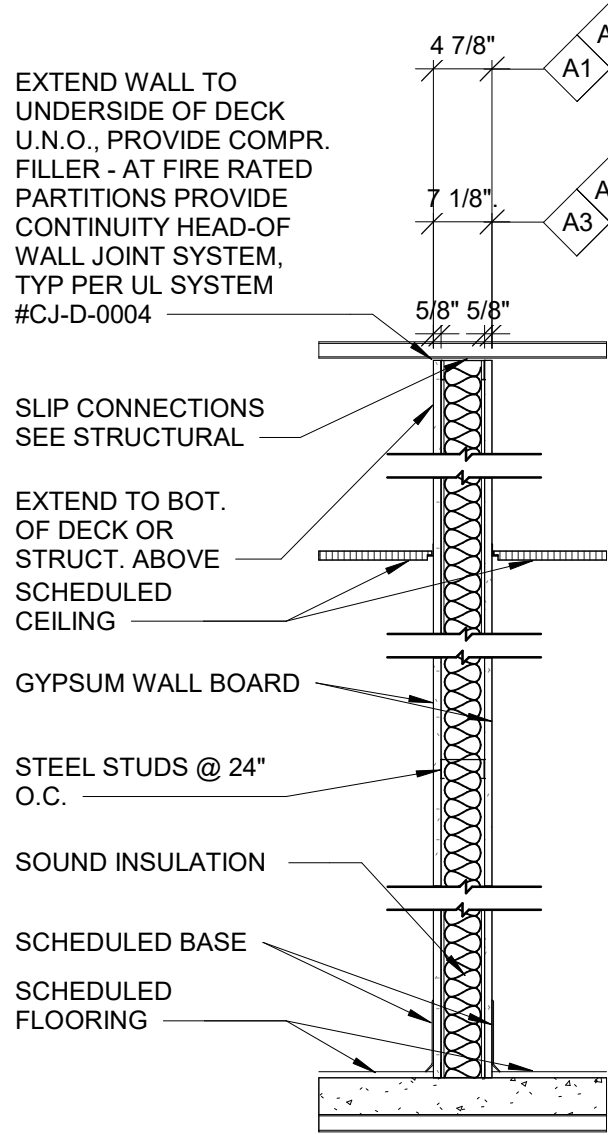
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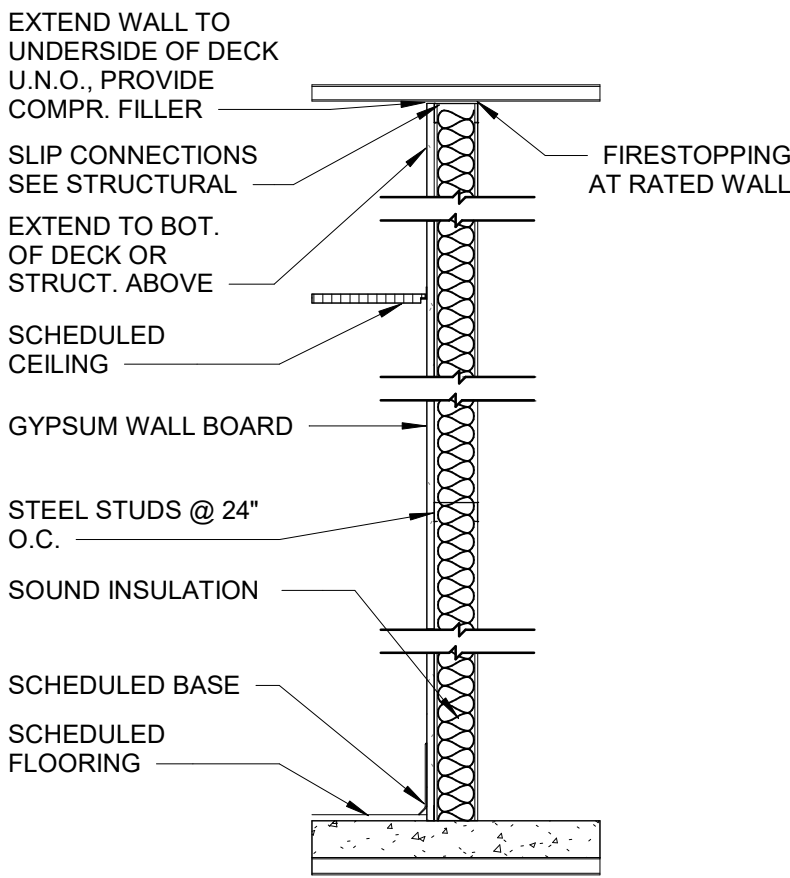
PARTITION TYPES

A-601

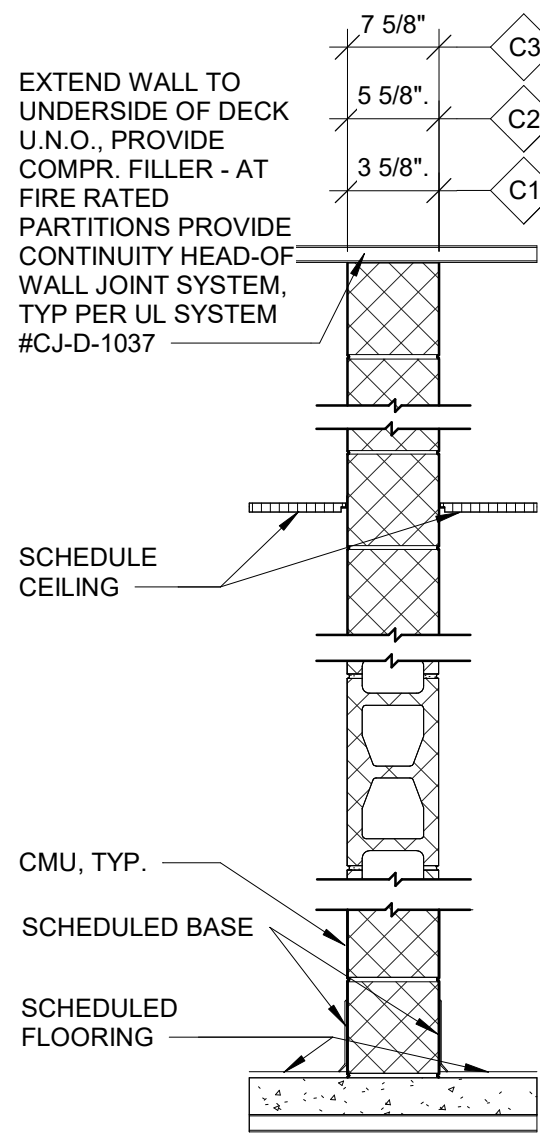
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- A1** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB EACH SIDE
- FINISH PER SCHEDULE
- A2** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419
- STC 48
- A3** 6" STEEL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



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



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

A5 PARTITION TYPES

3/4" = 1'-0"



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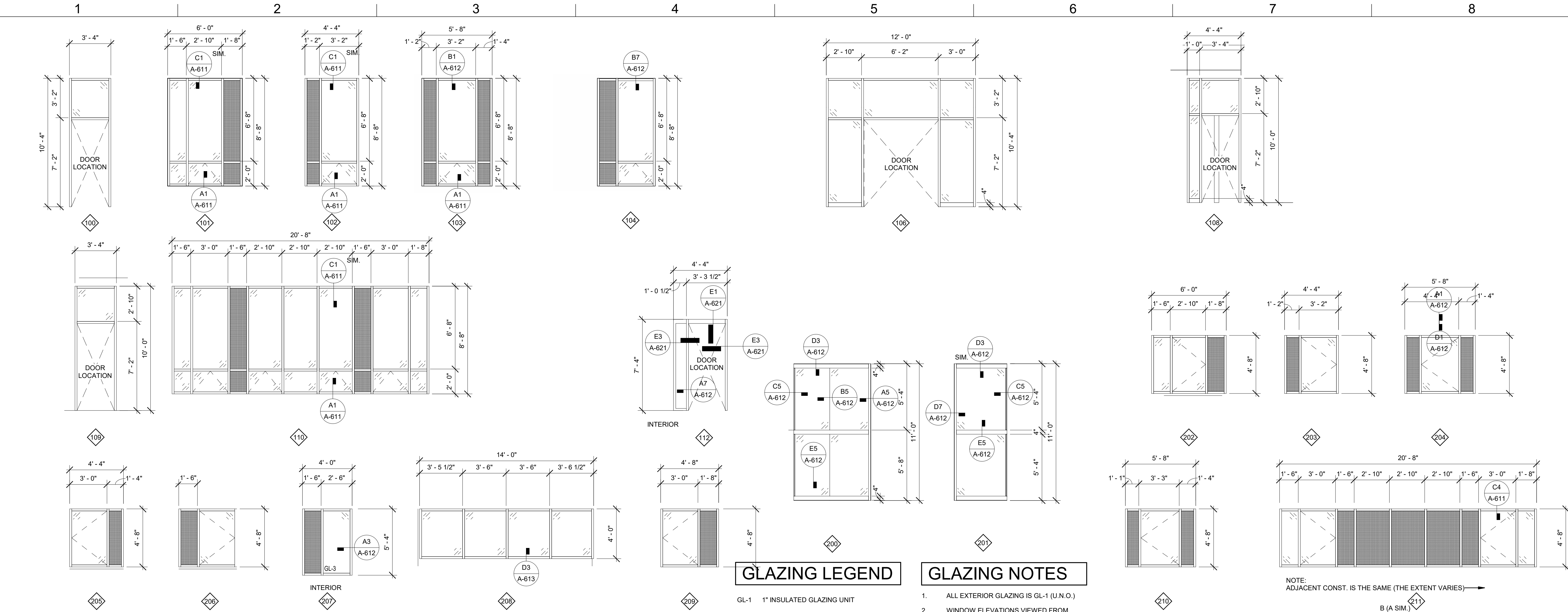
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WINDOW ELEVATIONS

1/4" = 1'-0"

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)

GLAZING NOTES

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

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1	10.27.2022	JSP

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WINDOW ELEVATIONS

A-610

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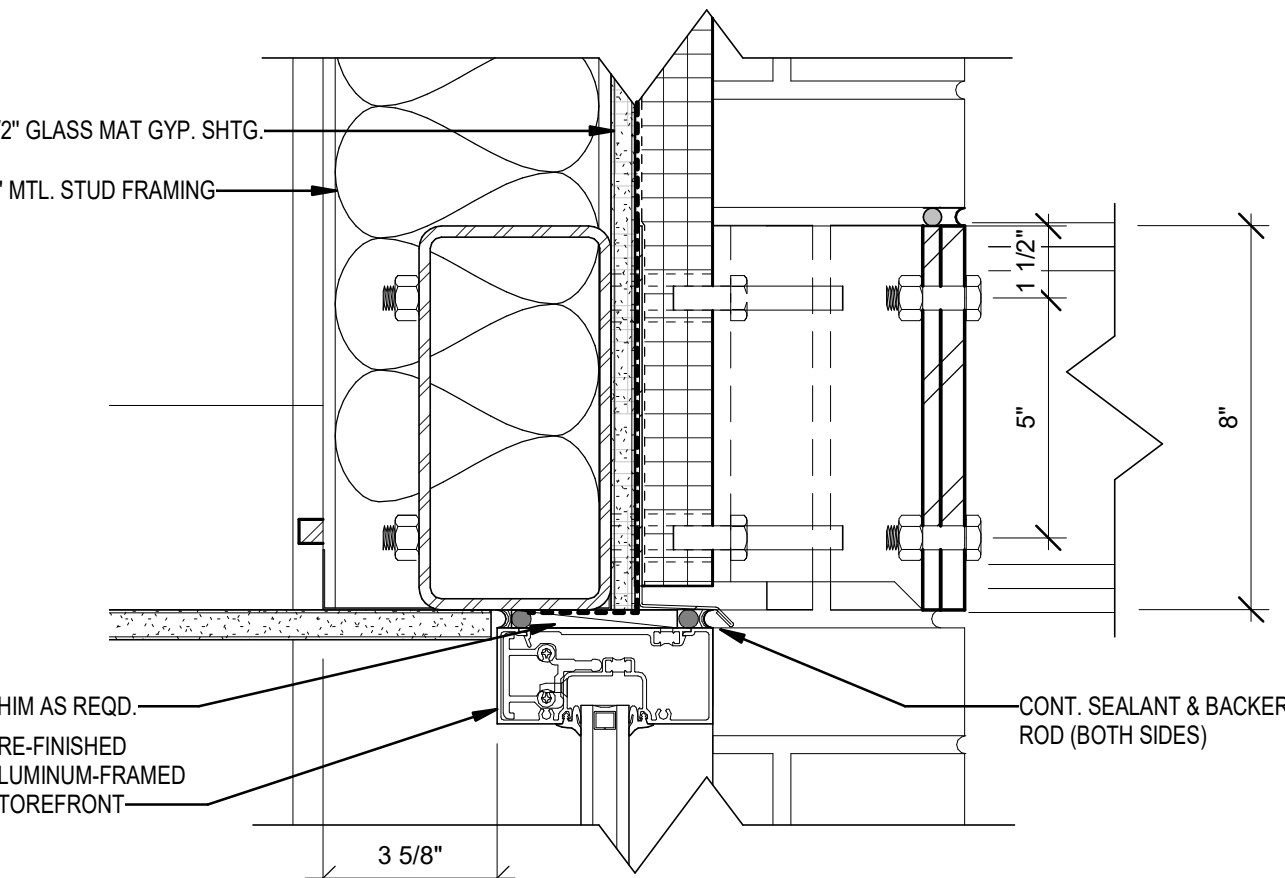
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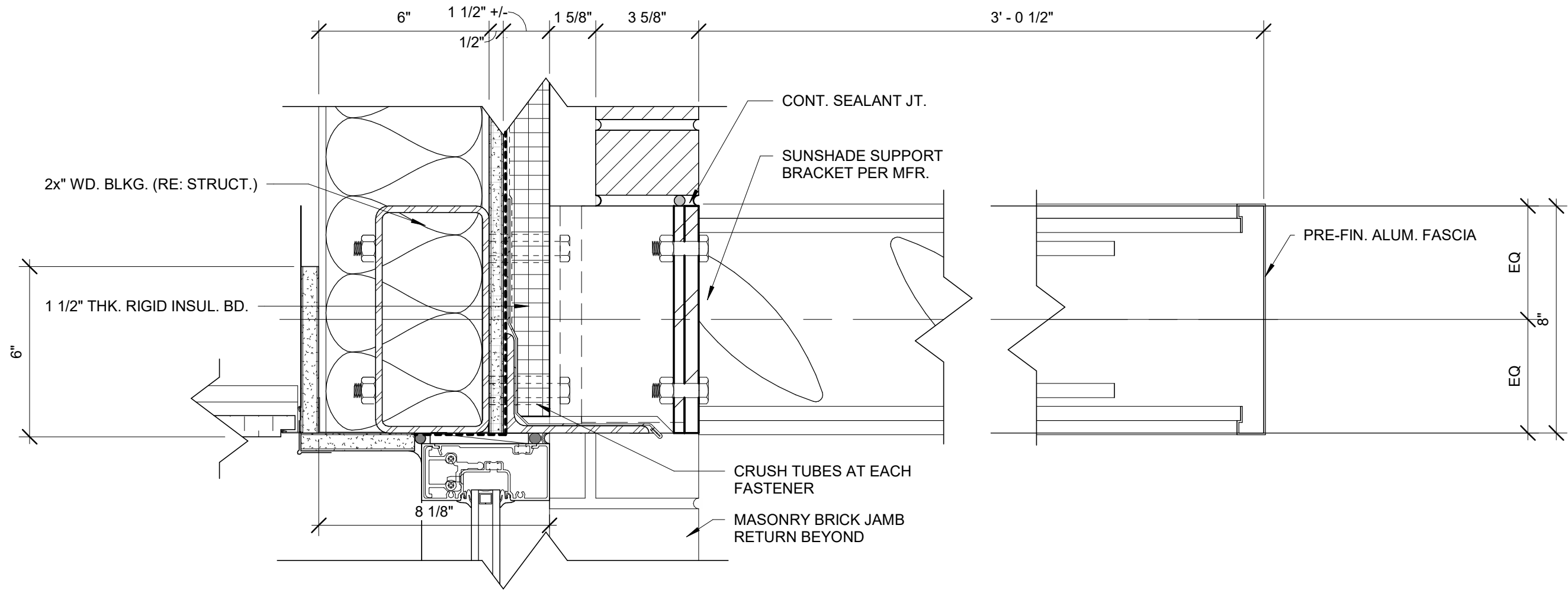
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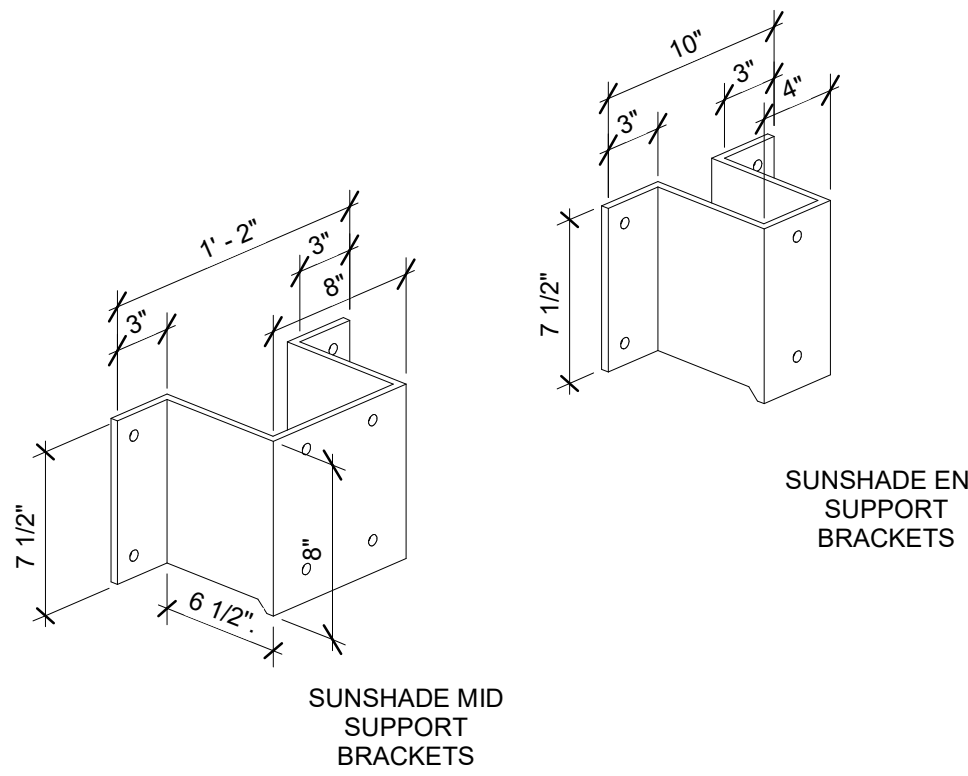
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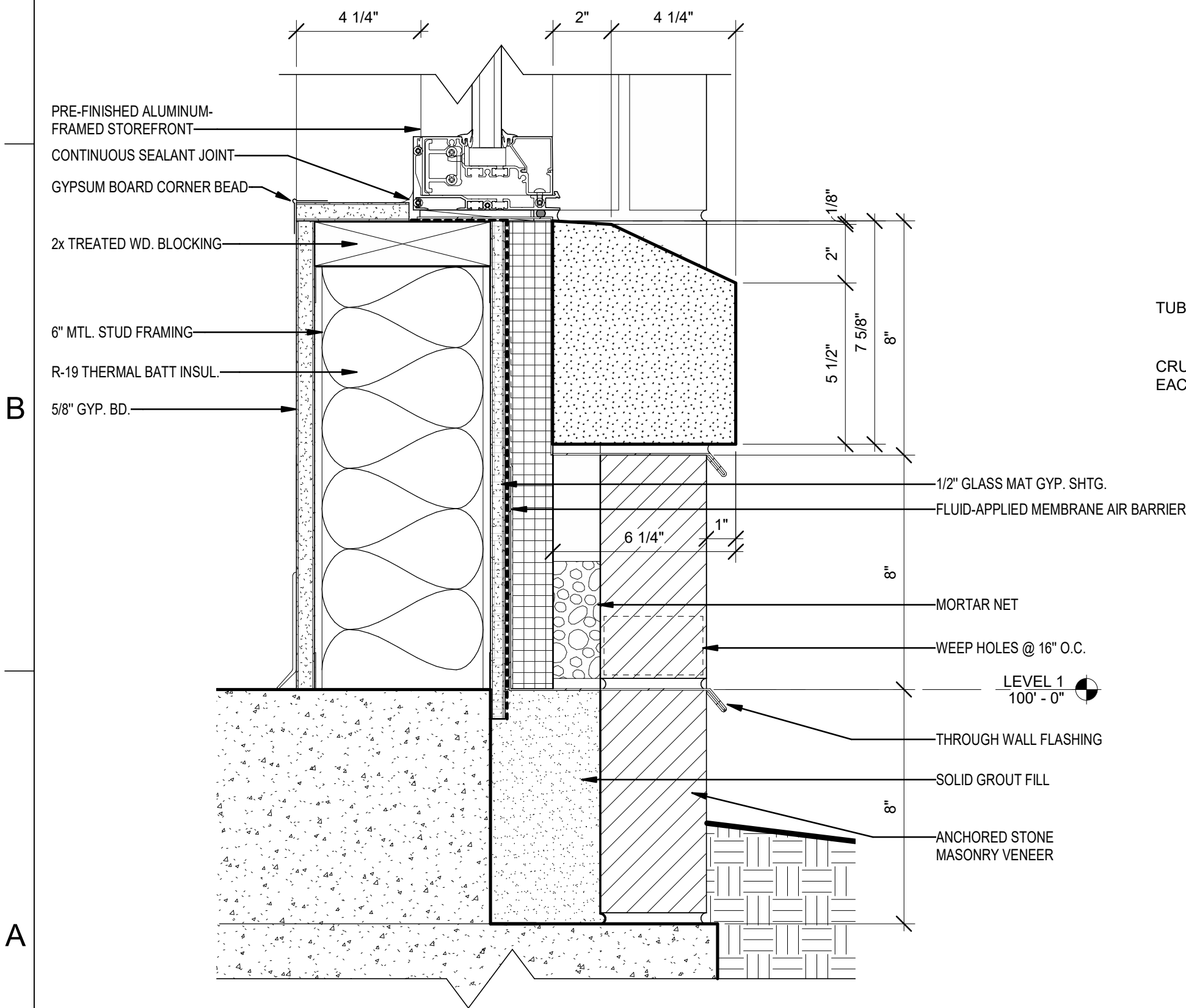
C1 WINDOW HEAD DETAIL @ EIFS
3" = 1'-0"



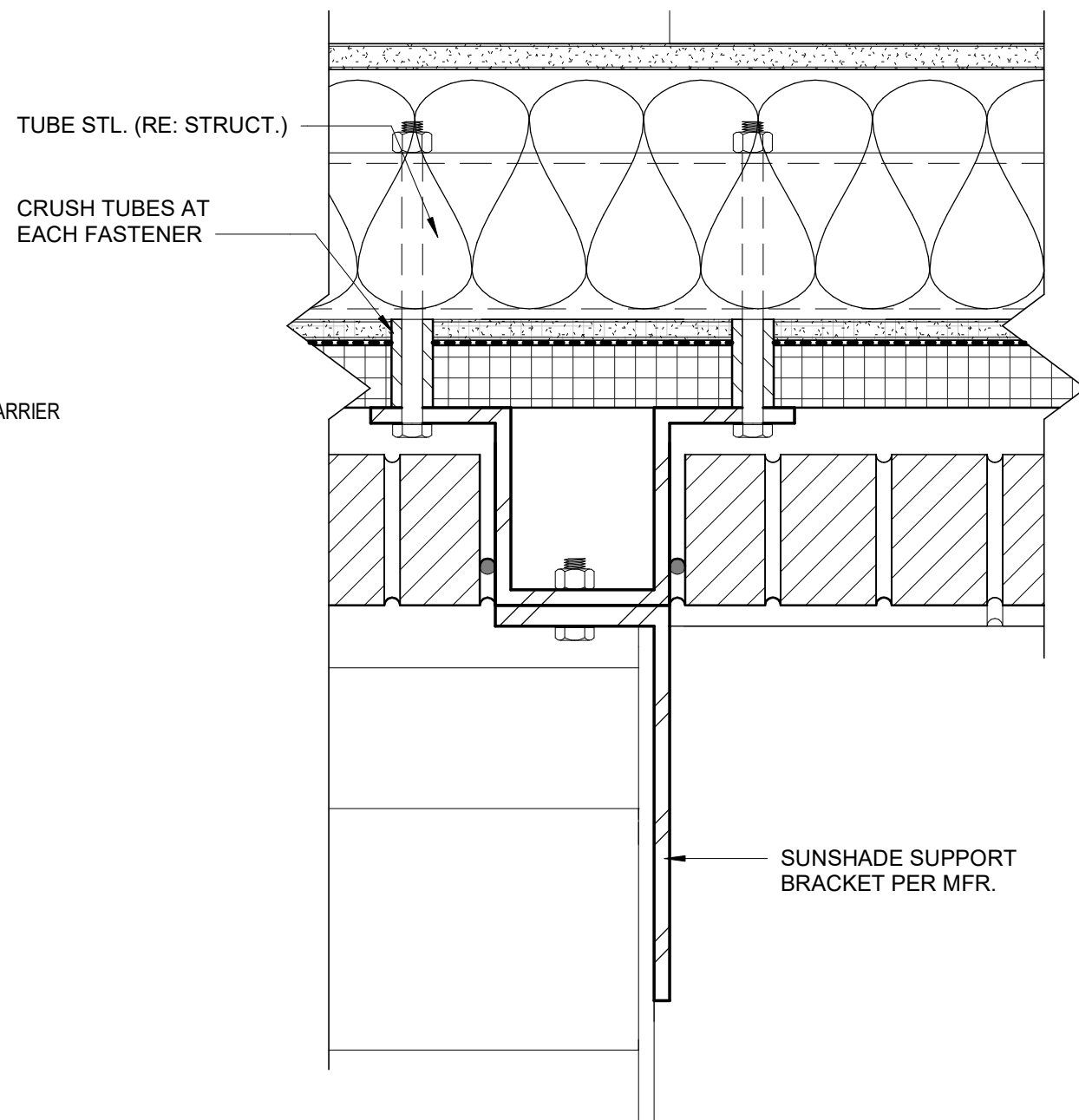
C4 WINDOW HEAD DETAIL @ MASONRY
3" = 1'-0"



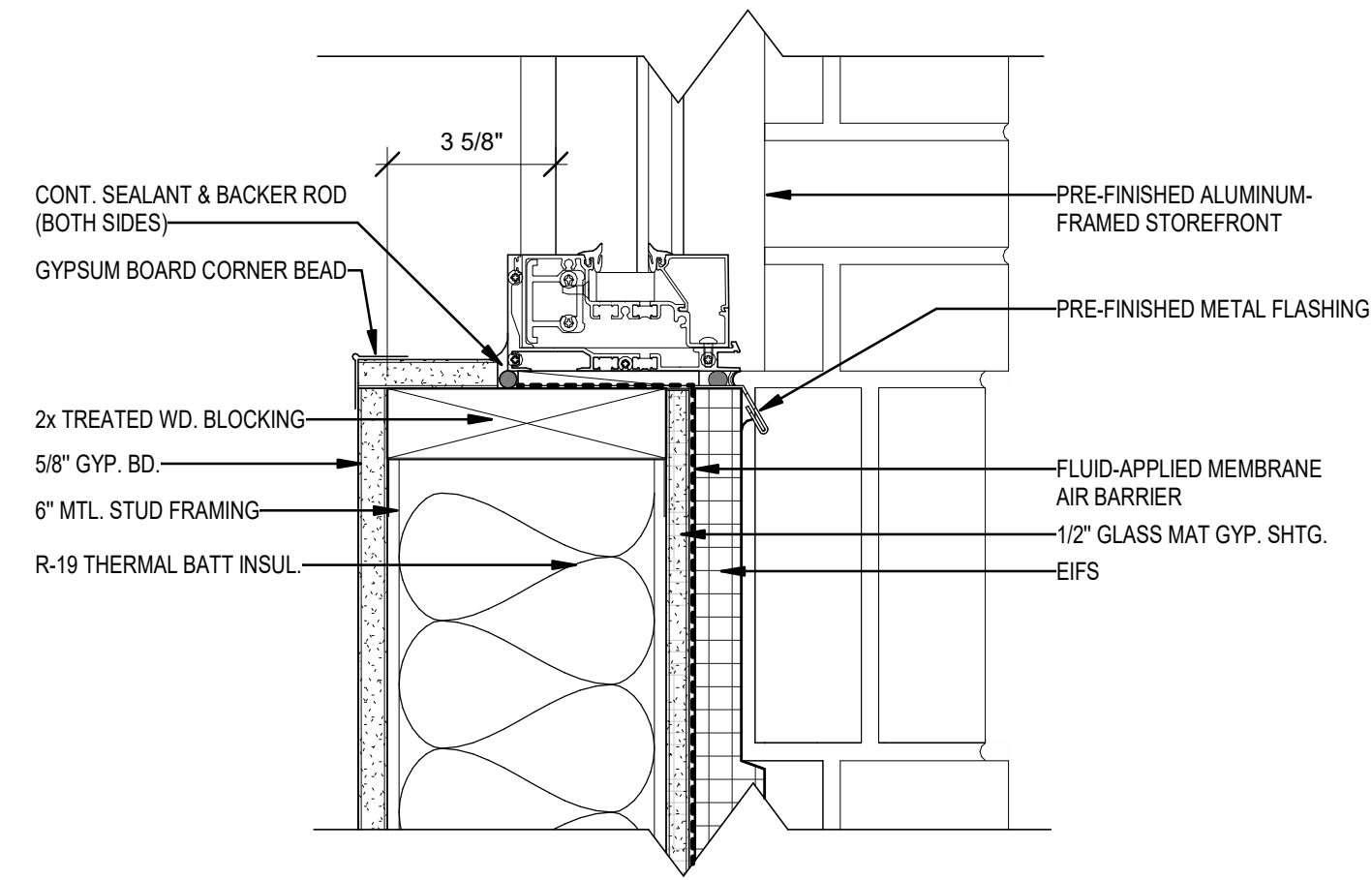
C7 SUNSHADE BRACKET
0 6" 1' 1'-6"



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



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



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



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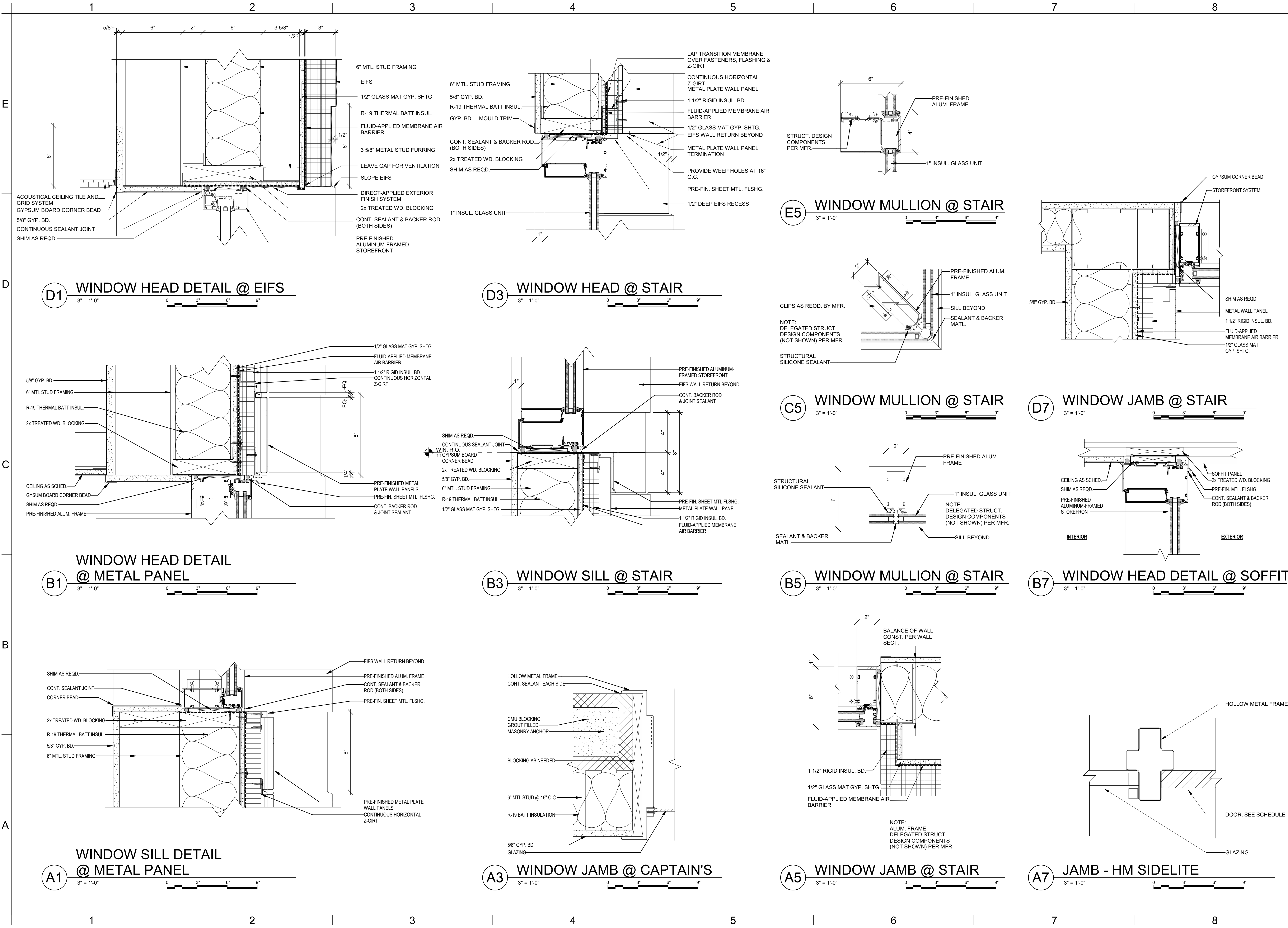
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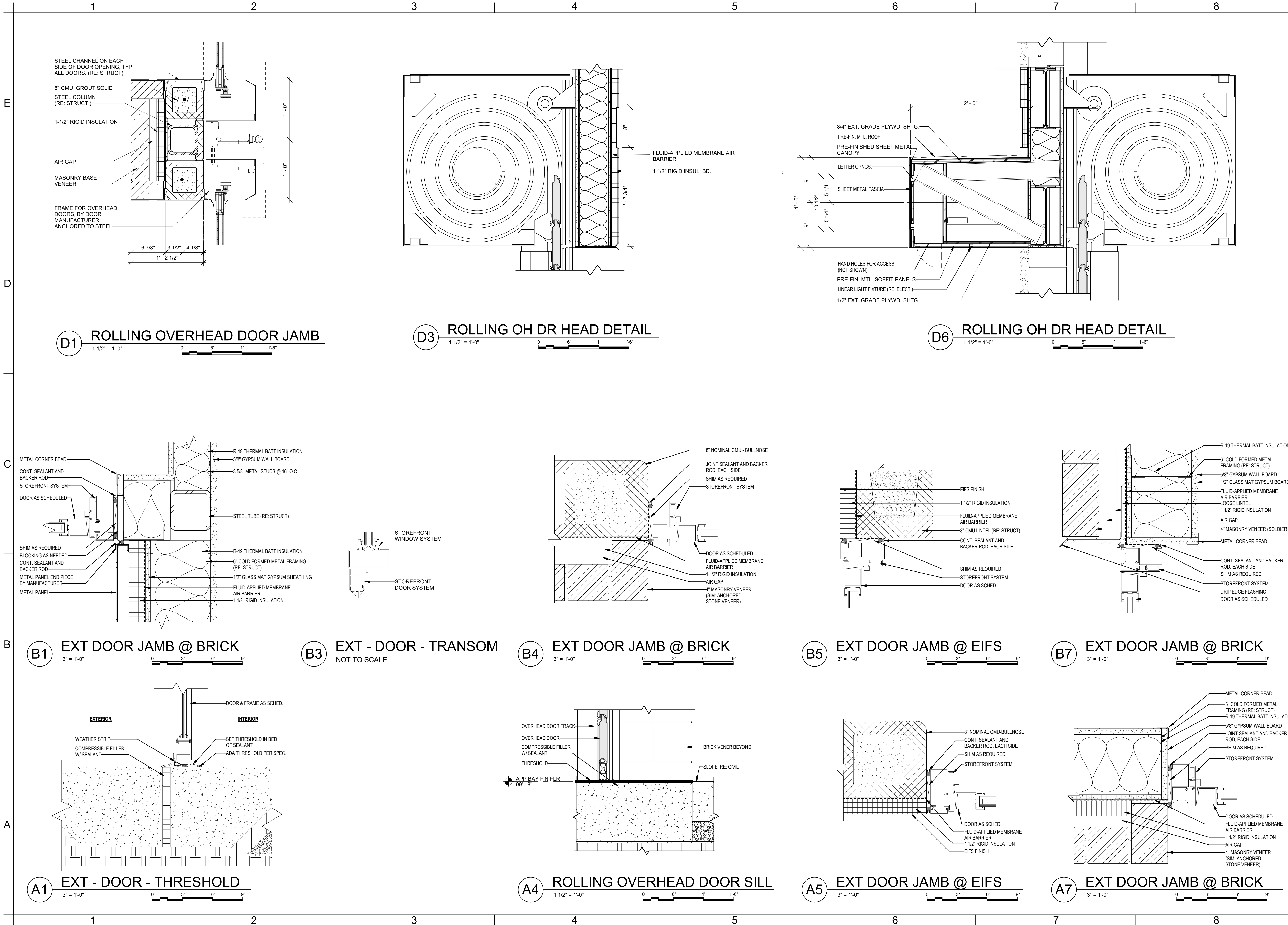
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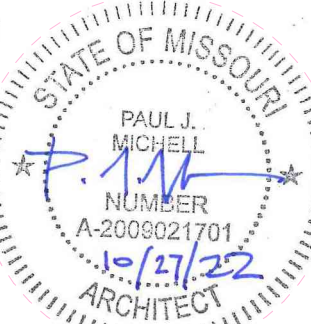
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EXTERIOR DOOR DETAILS

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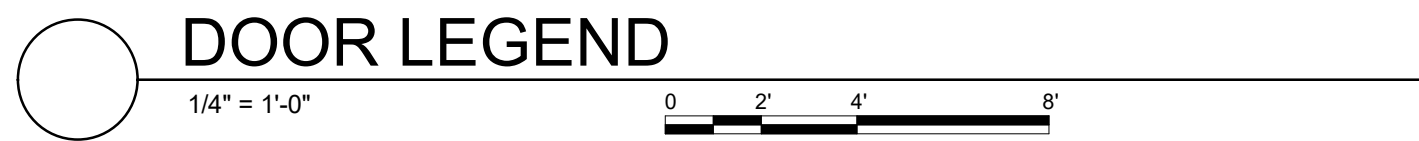
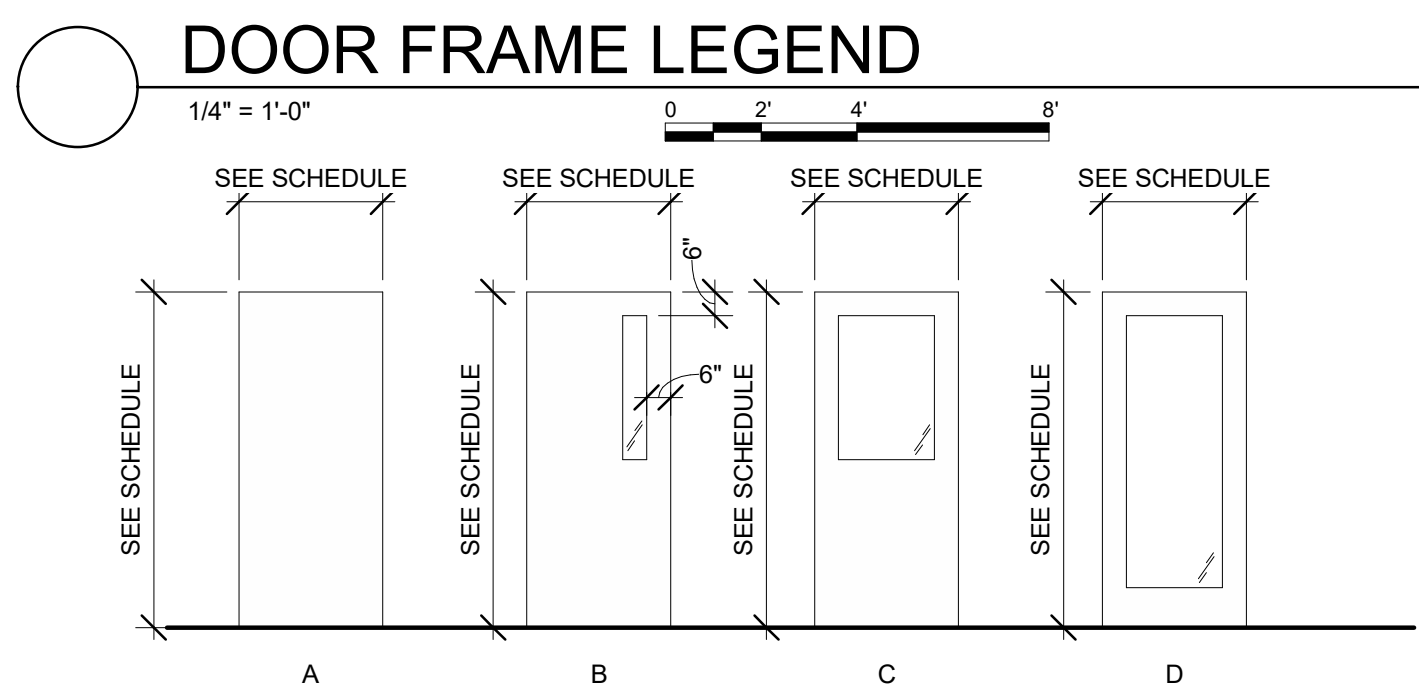
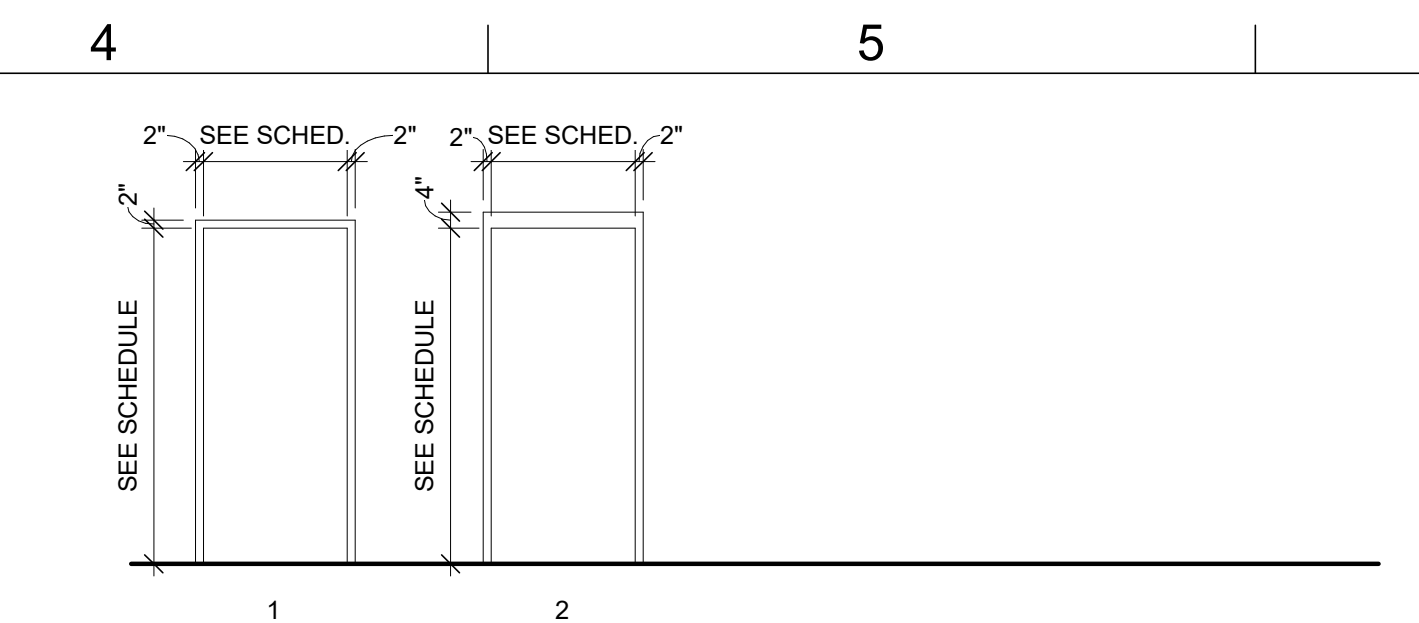
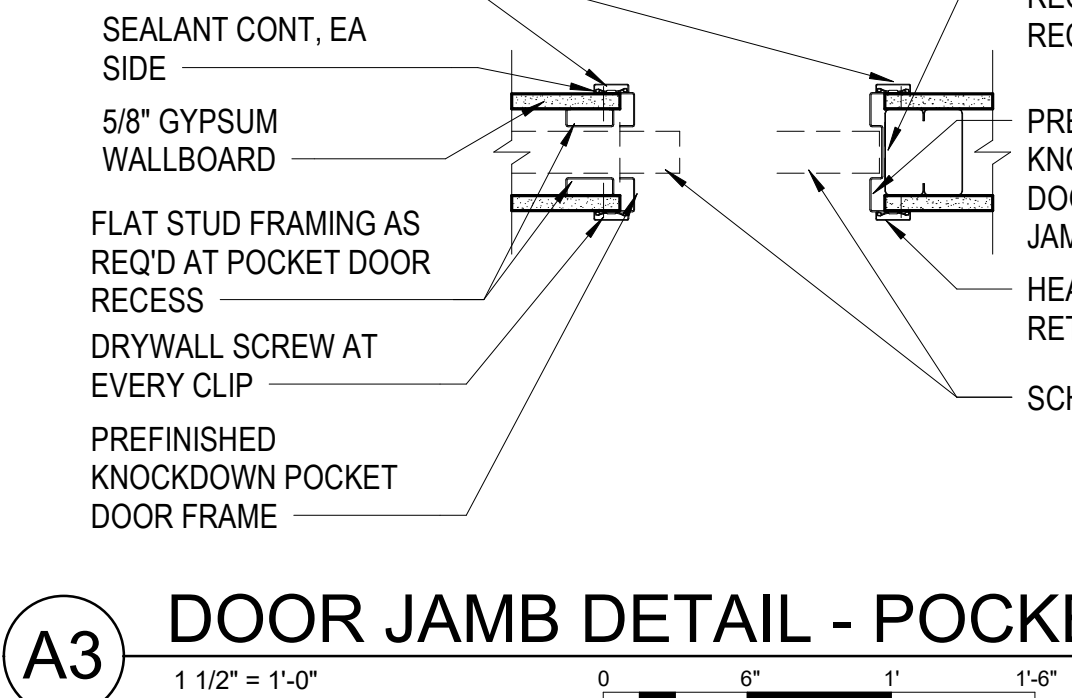
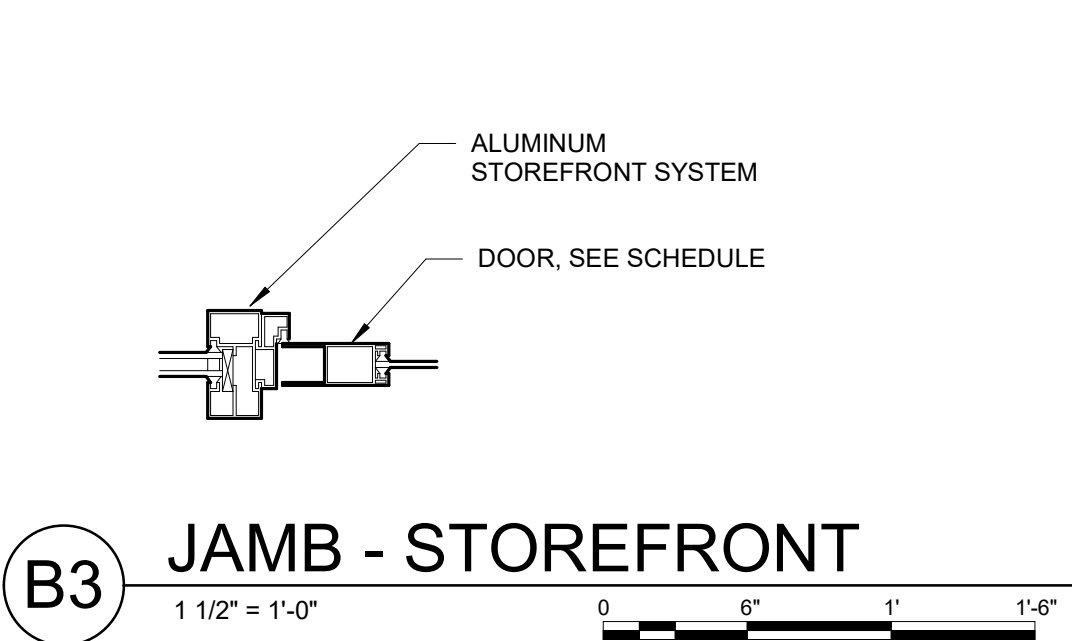
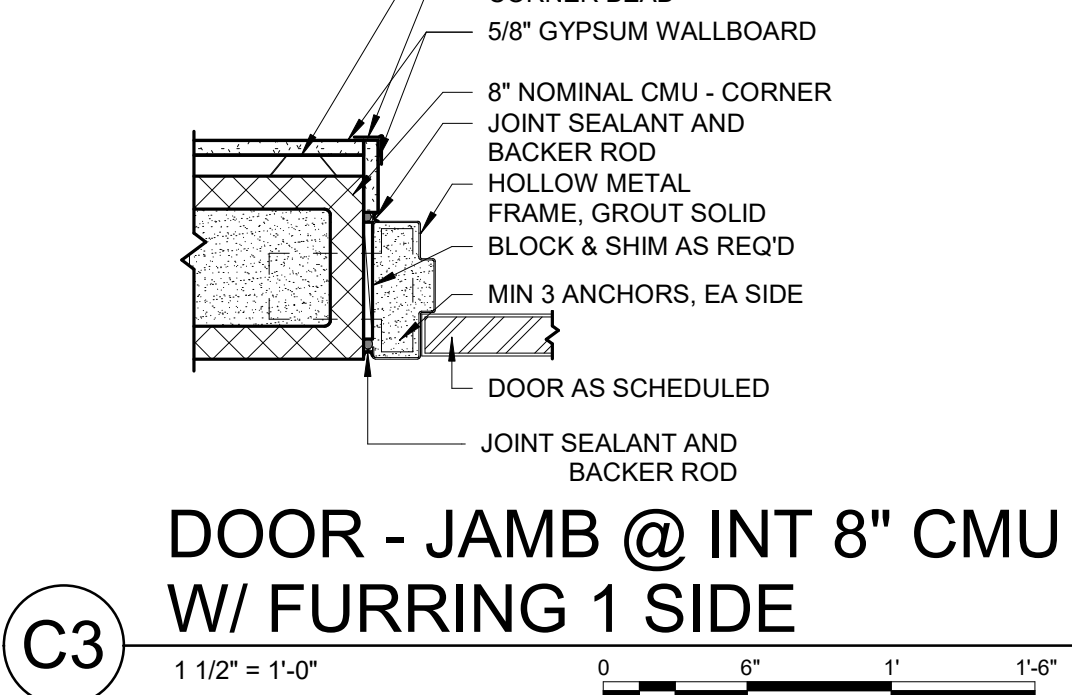
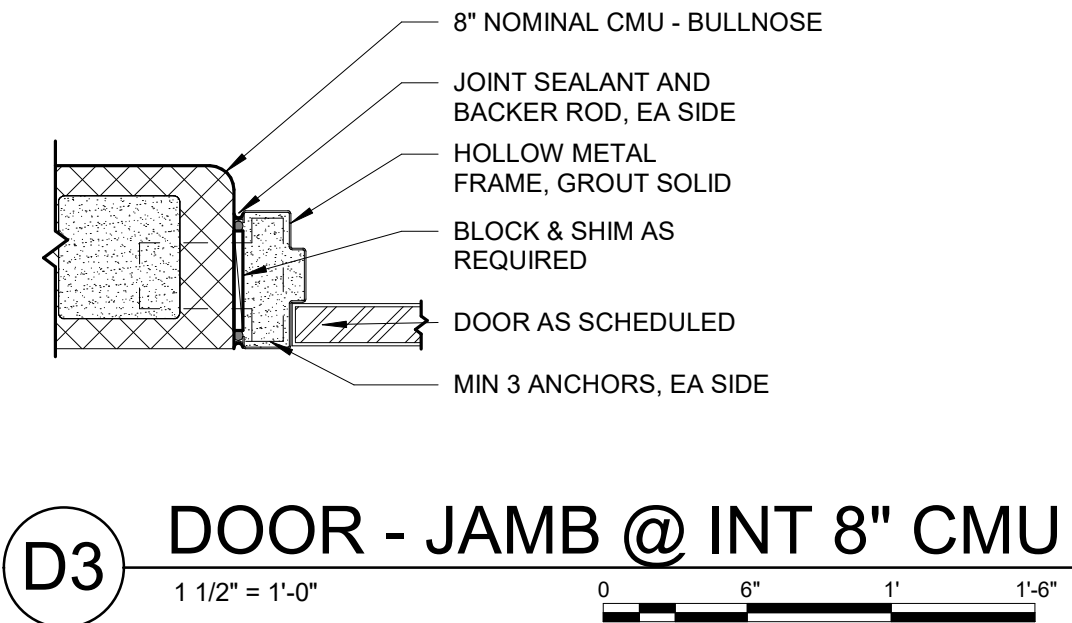
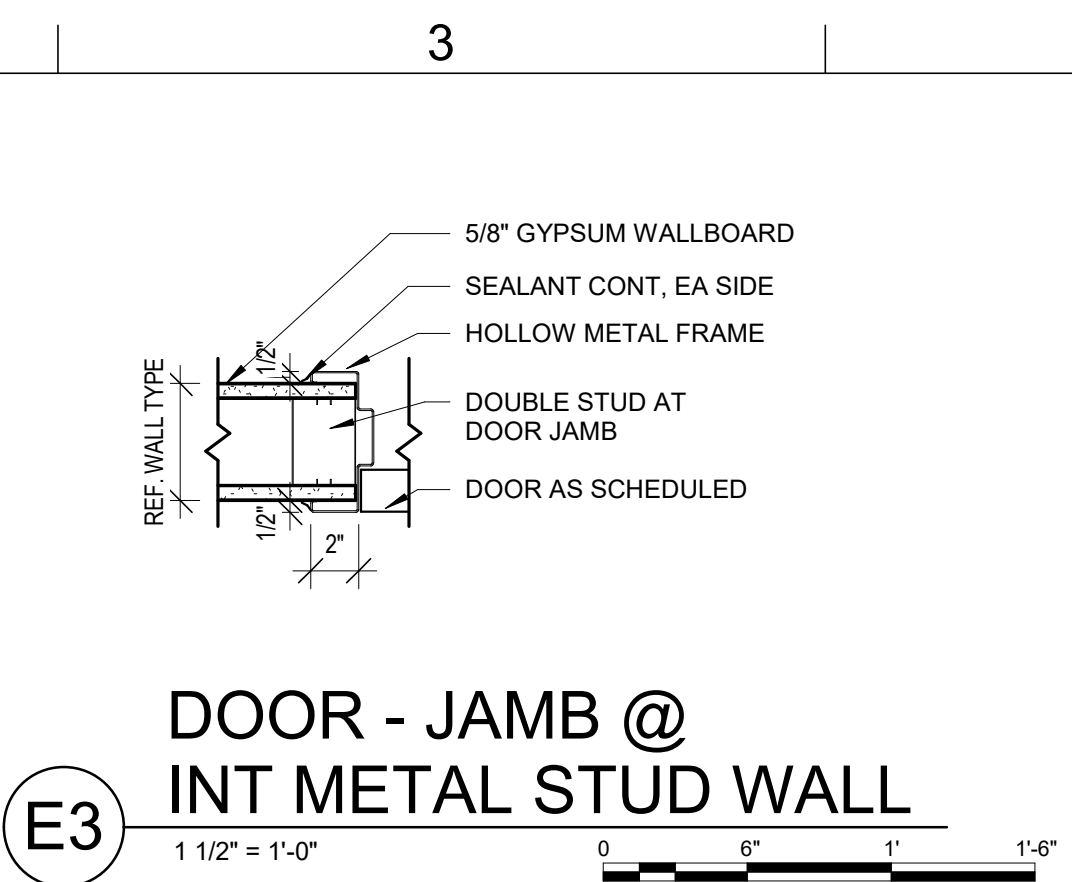
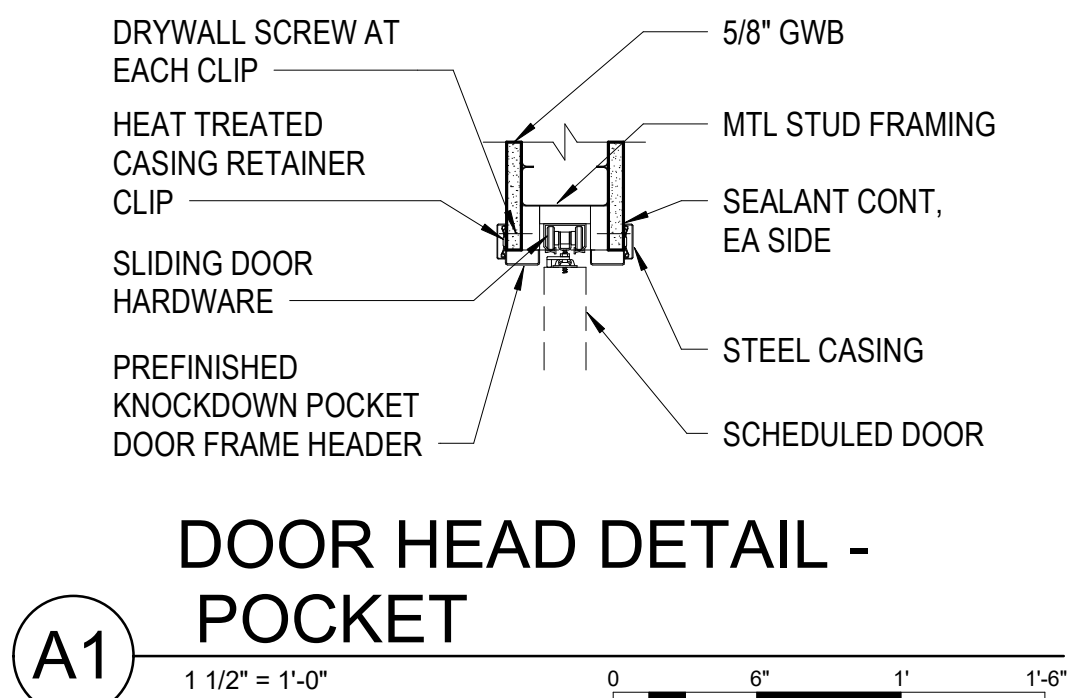
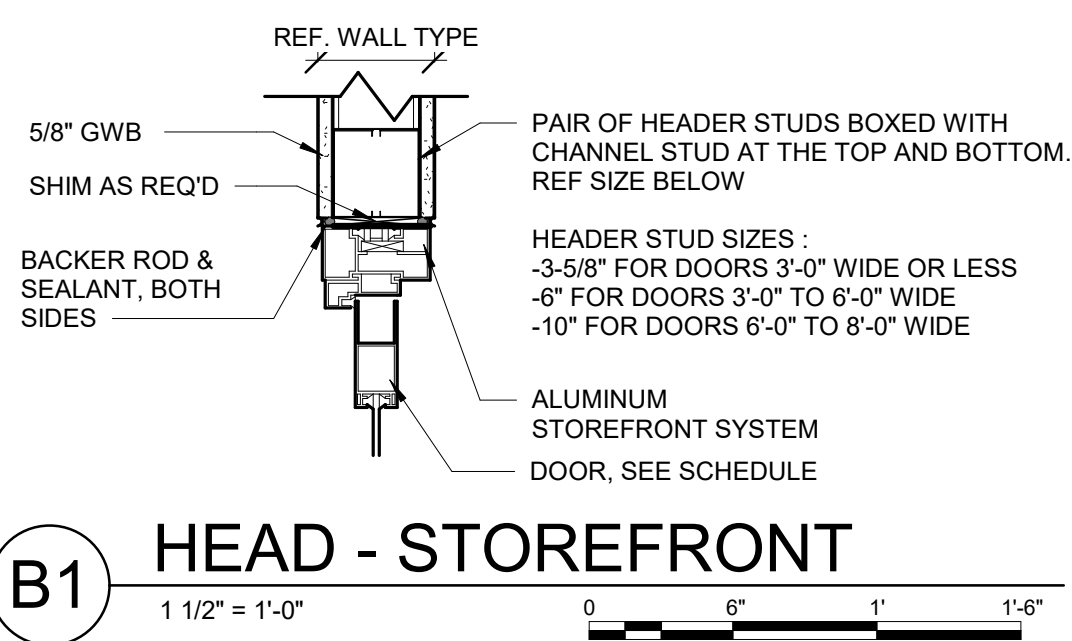
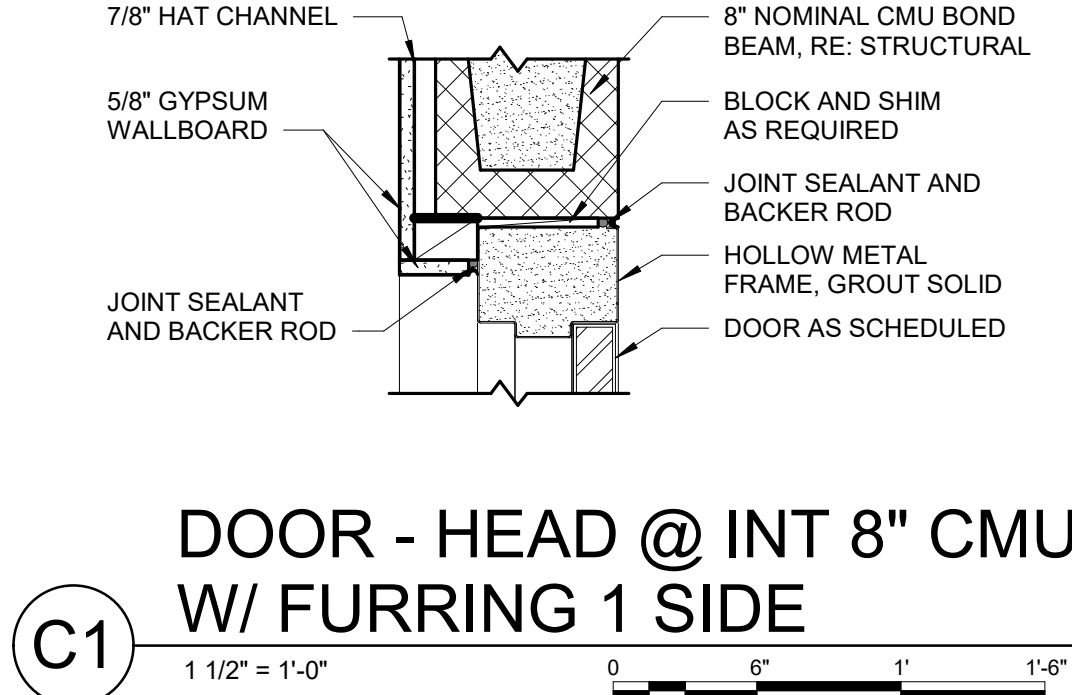
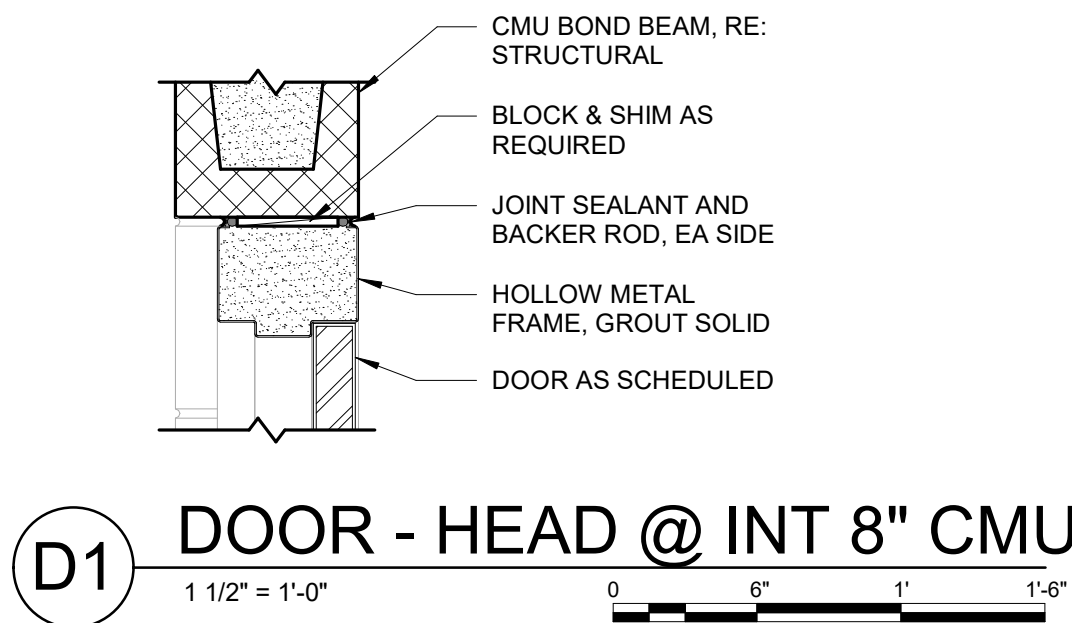
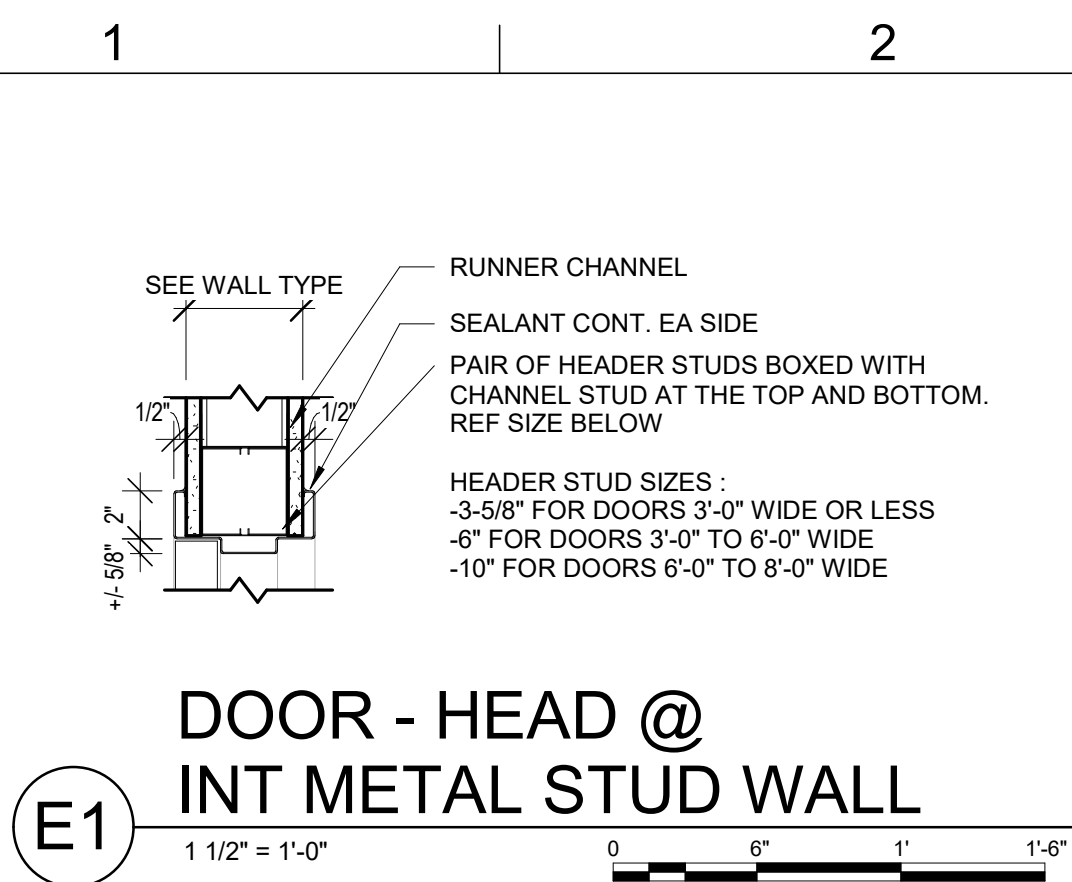
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GLAZING LEGEND

- 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 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 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 MANUALLY OPERATED FLUSH BOLTS, DEAD BOLTS, OR SURFACE BOLTS ARE NOT PERMITTED.
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 SCHEDULE

MARK	ROOM NAME	DOOR						FRAME			DETAIL			HDMR 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
100F	PUBLIC TOILET	3' - 6"	7' - 0"	C	SCW	PTD	GL-3	1	HM	PTD	E1/A-621	E3/A-621	-	HW-2	PANIC HARDWARE
101	ADMIN. TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	E7/A-622	HW-3	
103	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-1	
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	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		
119B	APPARATUS BAY	14' - 0"	14' - 0"								D6/A-613	D1/A-613	A4/A-613		
119C	APPARATUS BAY	14' - 0"	14' - 0"								D6/A-613	D1/A-613	A4/A-613		
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		
119G	APPARATUS BAY	14' - 0"	14' - 0"								D3/A-613	D1/A-613	A4/A-613		
119H	APPARATUS BAY	14' - 0"	14' - 0"								D3/A-613	D1/A-613	A4/A-613		
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	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
202B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	HM	PTD	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	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
203B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	HM	PTD	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	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
208B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	HM	PTD	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR
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209A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-	HM	PTD	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
209B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	HM	PTD	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR
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210A	BUNK	3' - 0"	7' - 0"	A	SCW	STN	-	HM	PTD	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
210B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	HM	PTD	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	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
211B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	HM	PTD	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	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
212B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	HM	PTD	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	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR
213B	TOILET	3' - 0"	7' - 0"	A	SCW	STN	-	HM	PTD	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR



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

REVISIONS:

#	Description	Date
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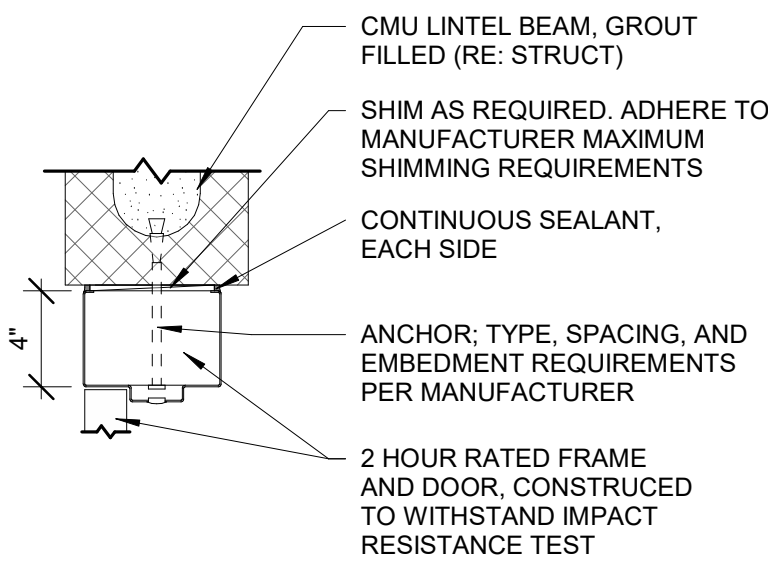
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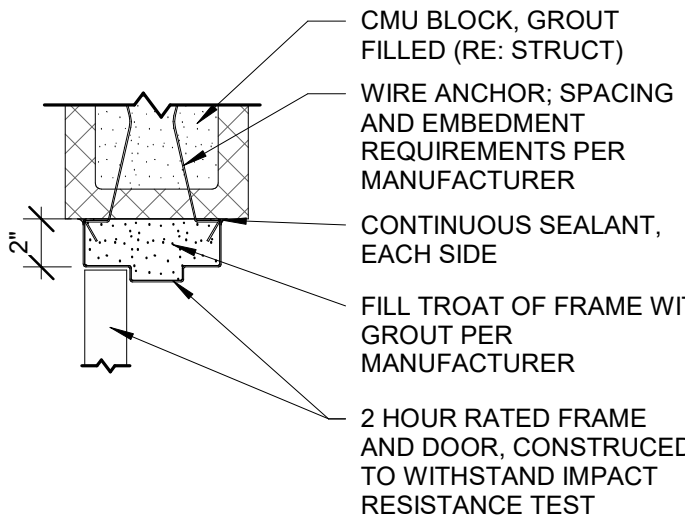
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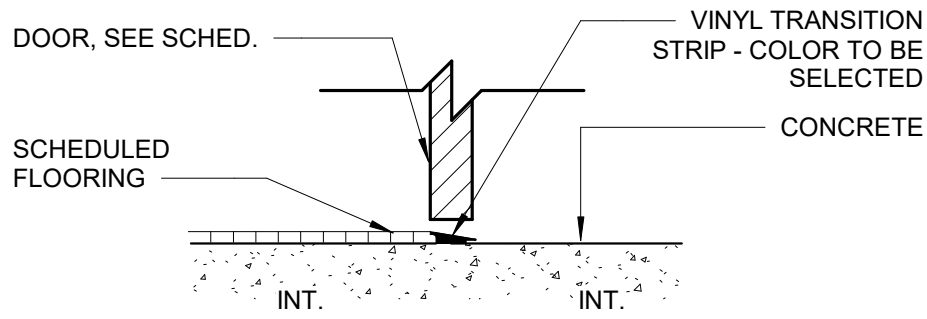
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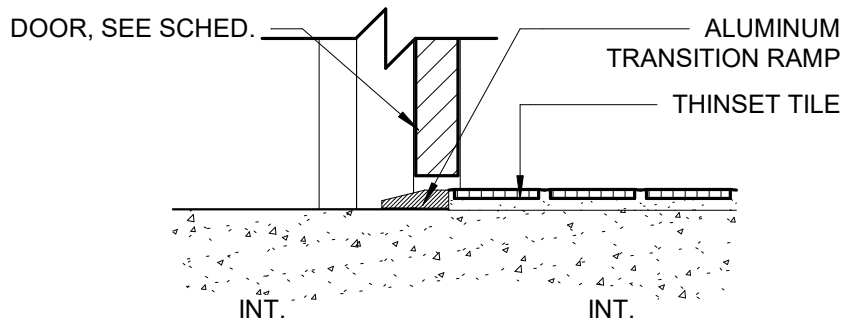
B3 DOOR HEADER
STORM SHELTER



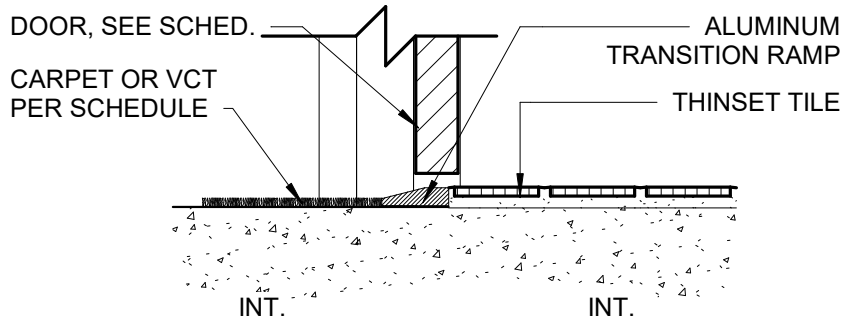
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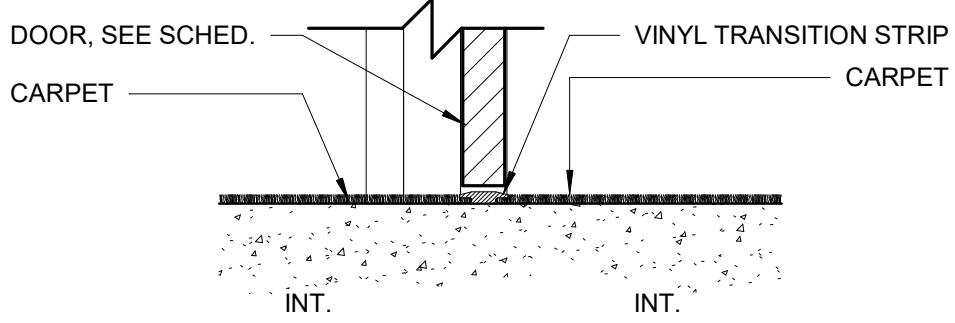
A5 THRESHOLD -
INT CONC TO CPT, VCT, RF



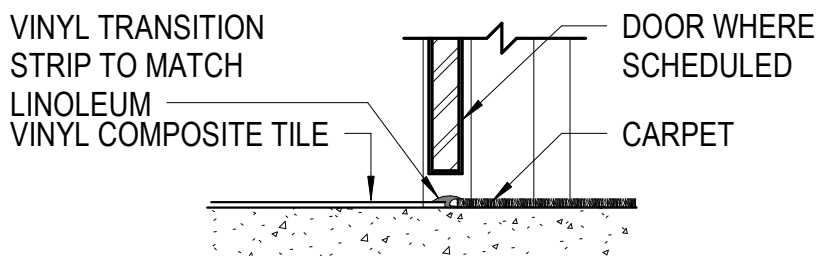
E7 THRESHOLD - CONC TO TILE



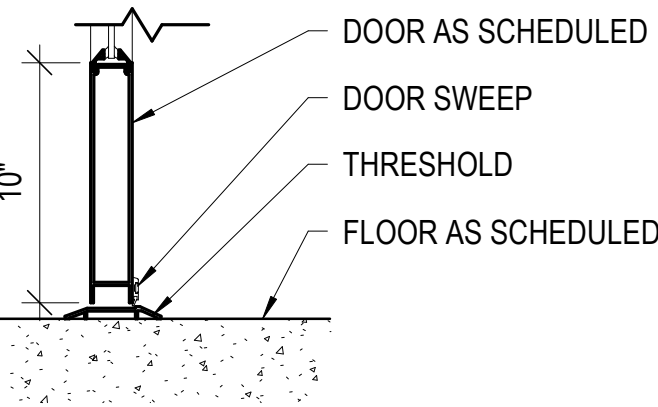
D7 THRESHOLD - CPT, LVT, VCT
TO TILE



C7 THRESHOLD -
CPT TO CPT

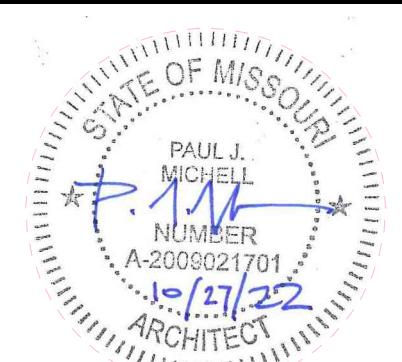


B7 THRESHOLD - VCT TO CPT



A7 STOREFRONT - SILL - DOOR

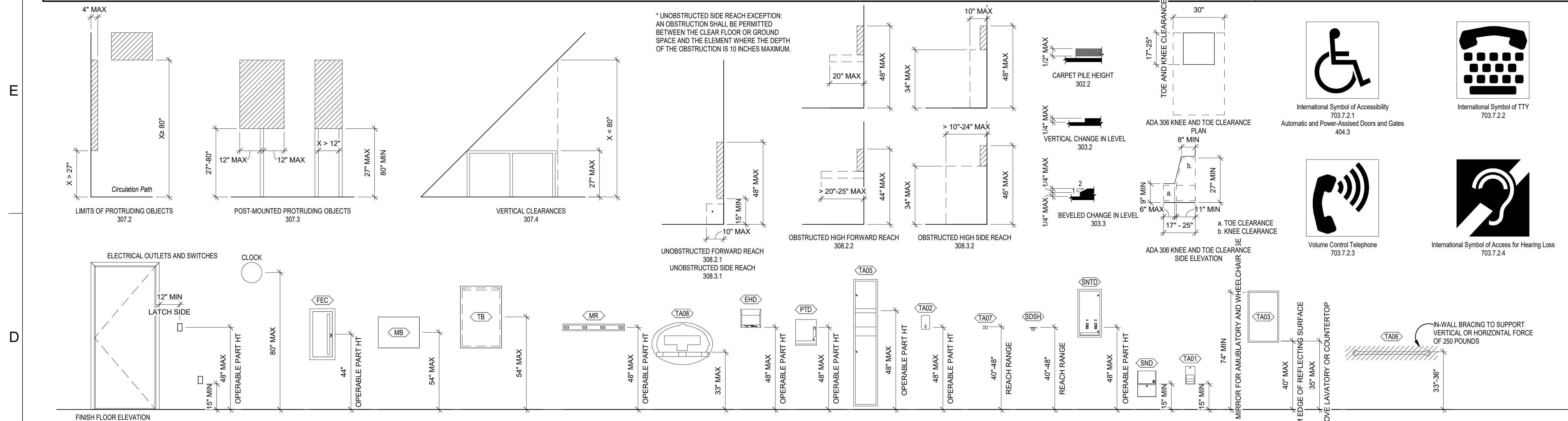
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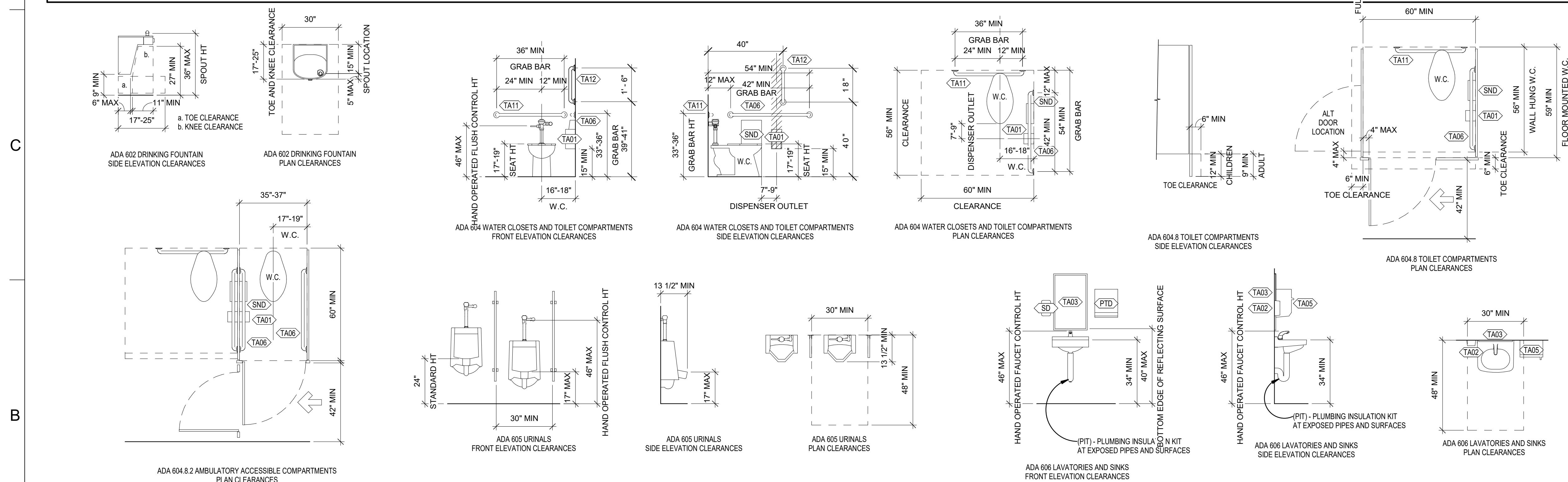
TYPICAL MOUNTING HEIGHTS

SYMBOLS OF ACCESSIBILITY

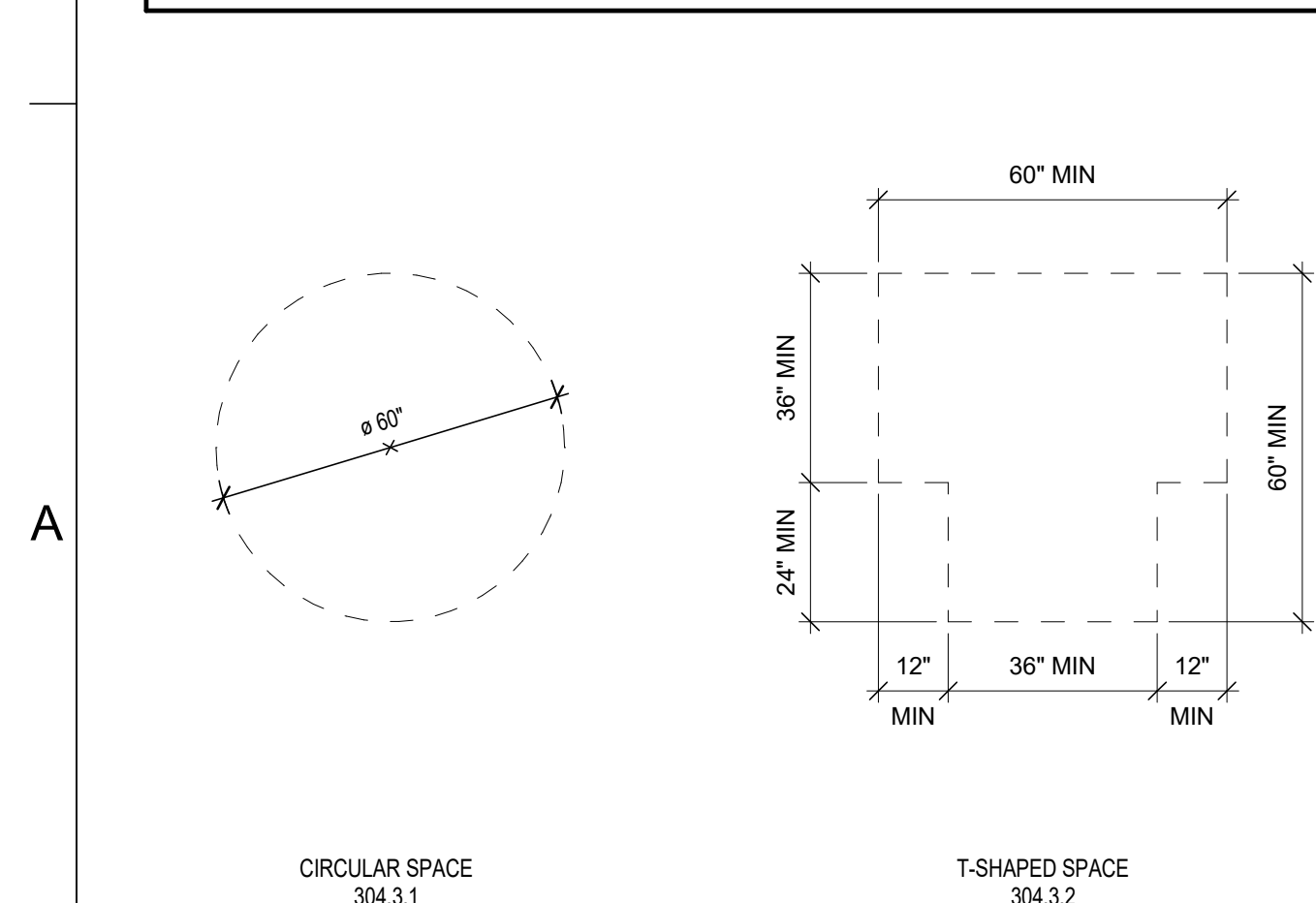
SHEET NOTES



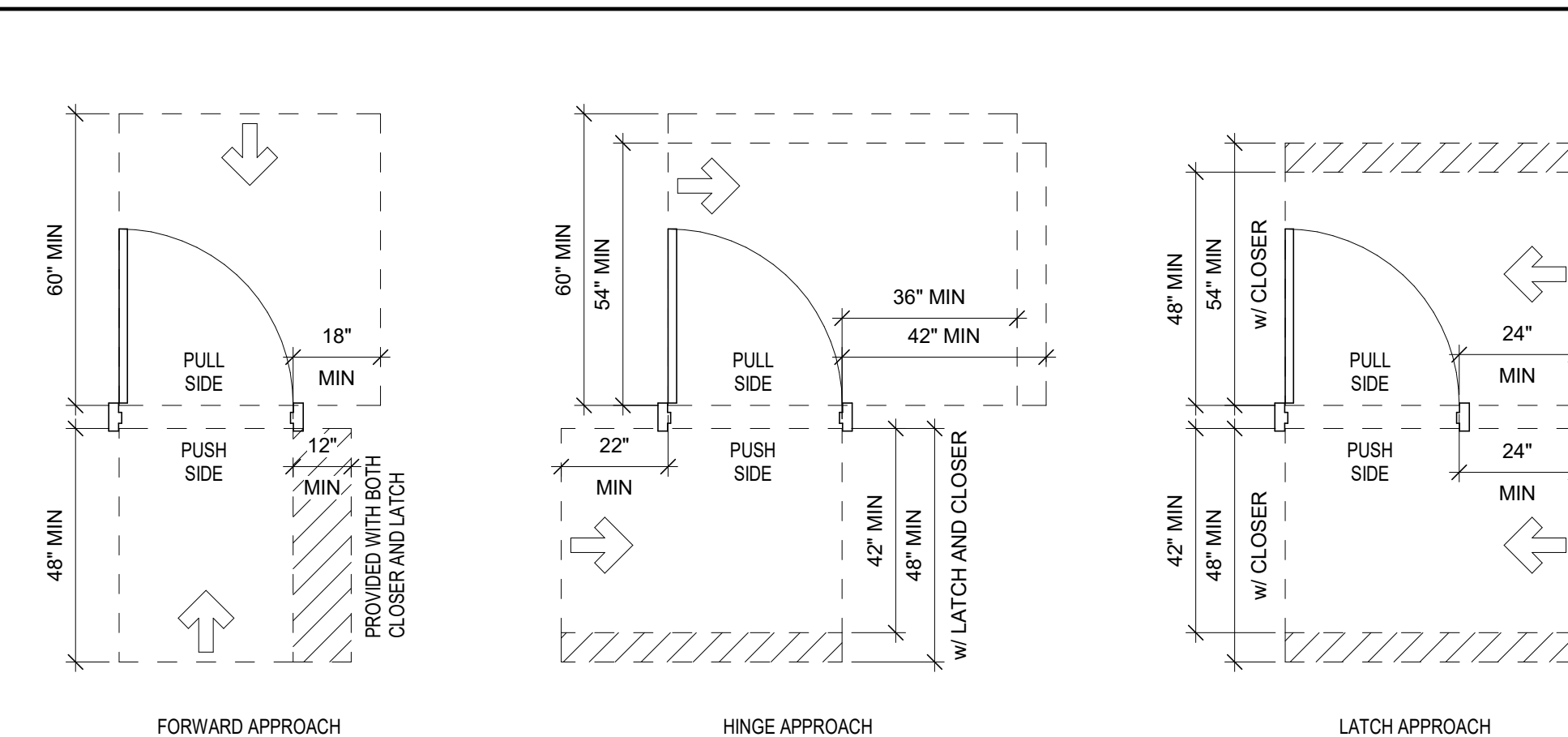
PLUMBING ELEMENTS AND FACILITIES



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

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

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MO# A-2009021701

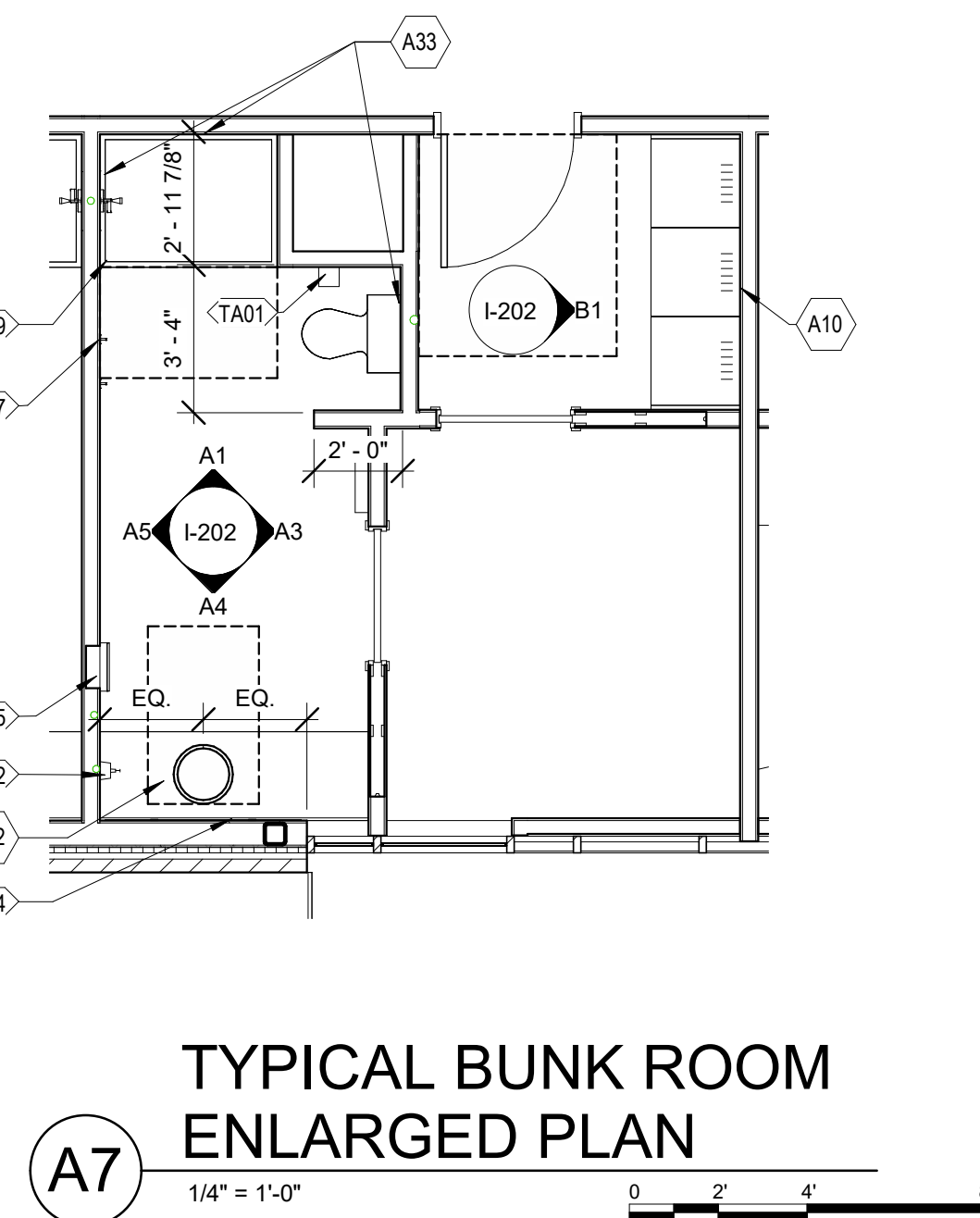
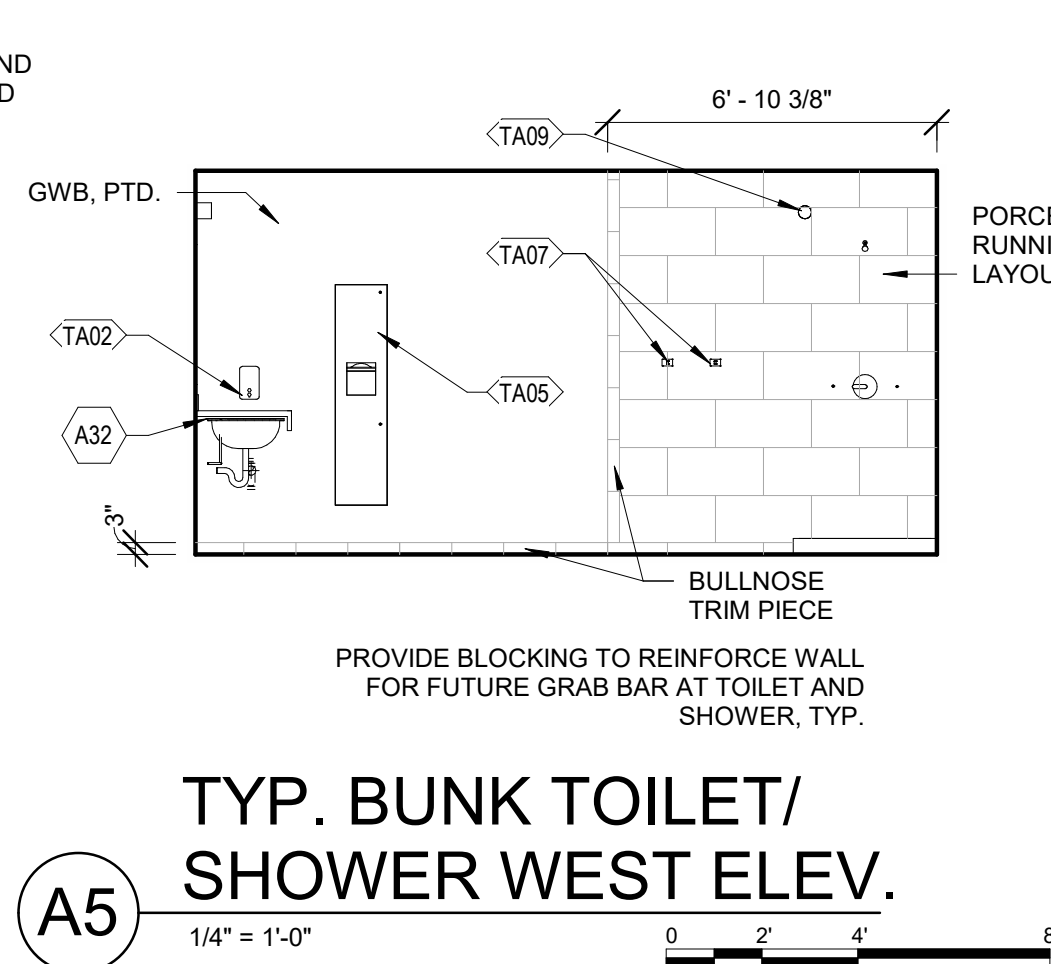
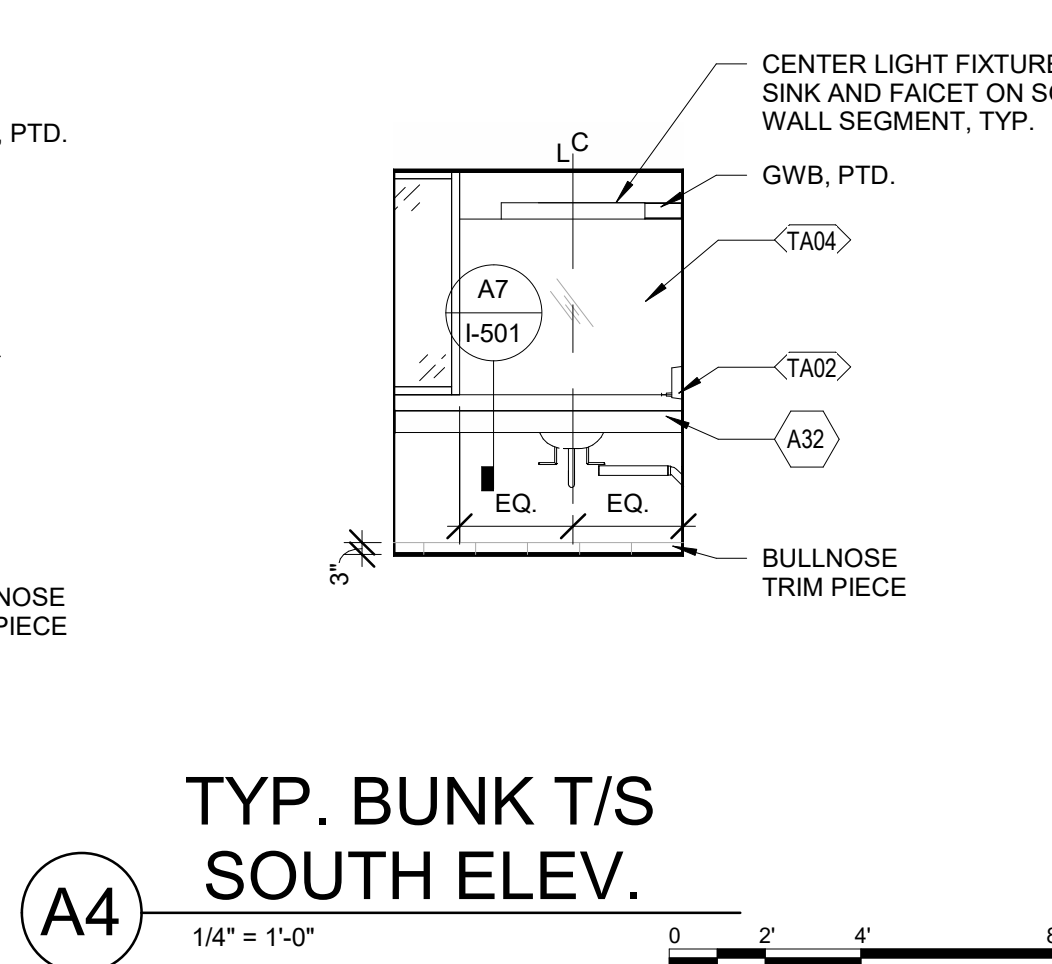
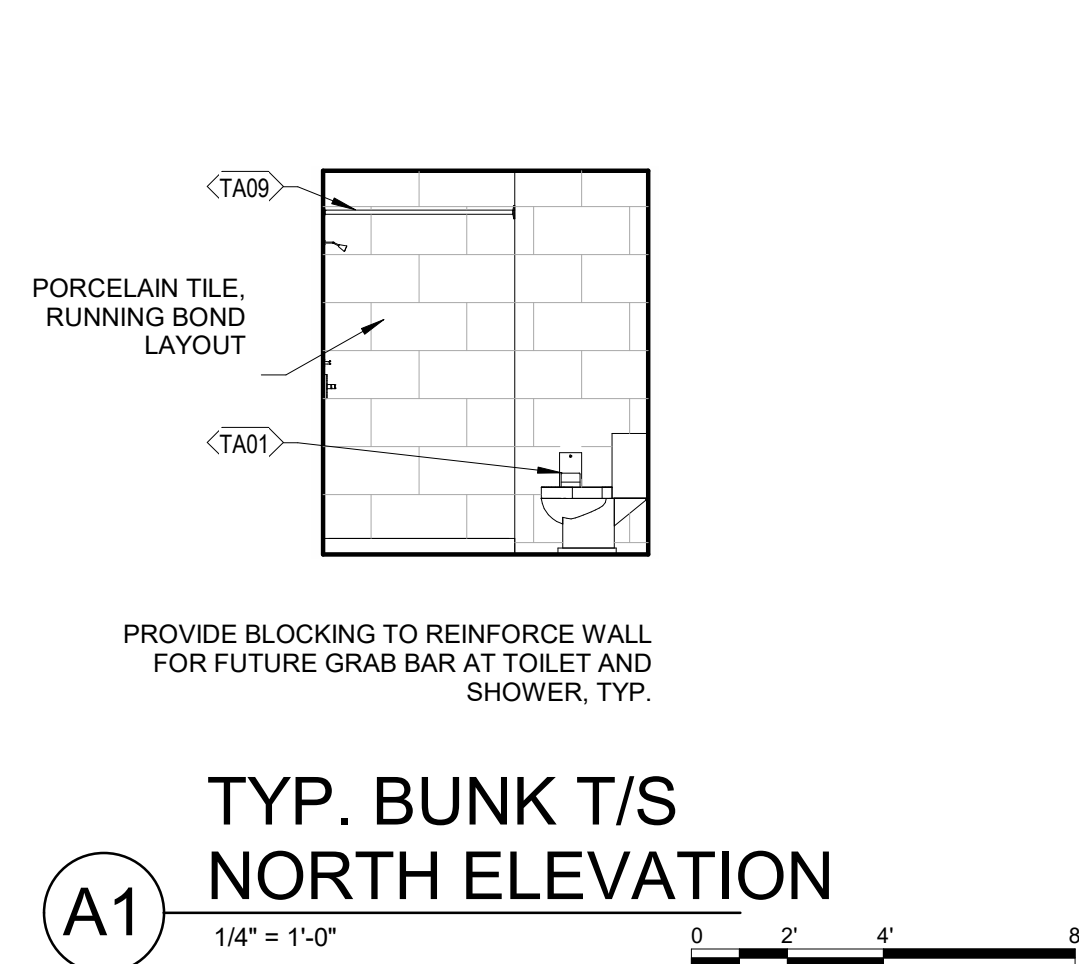
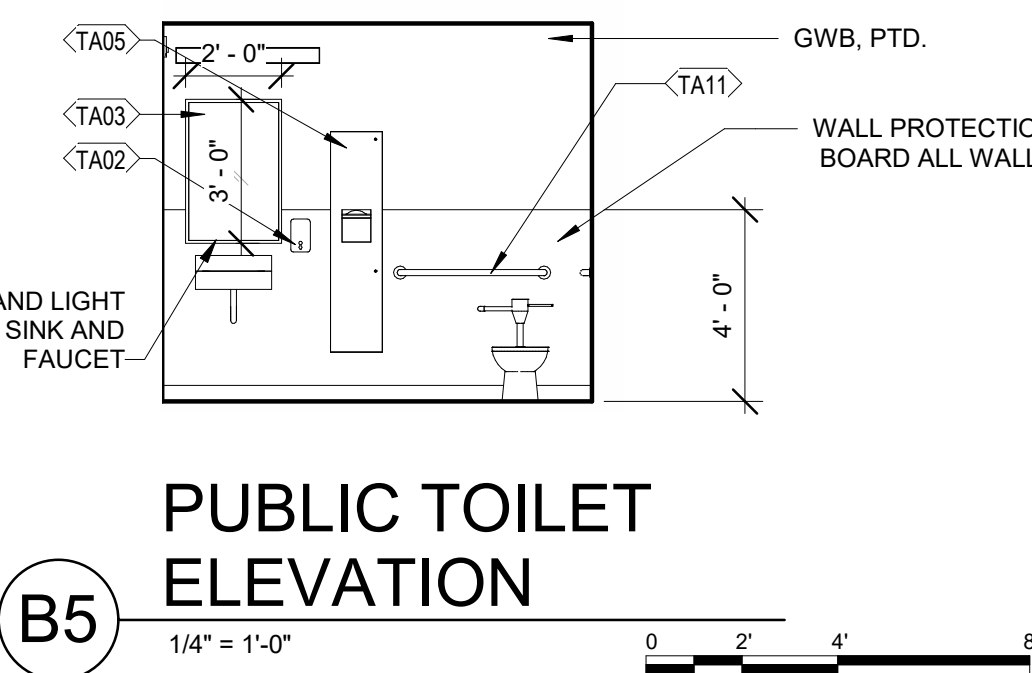
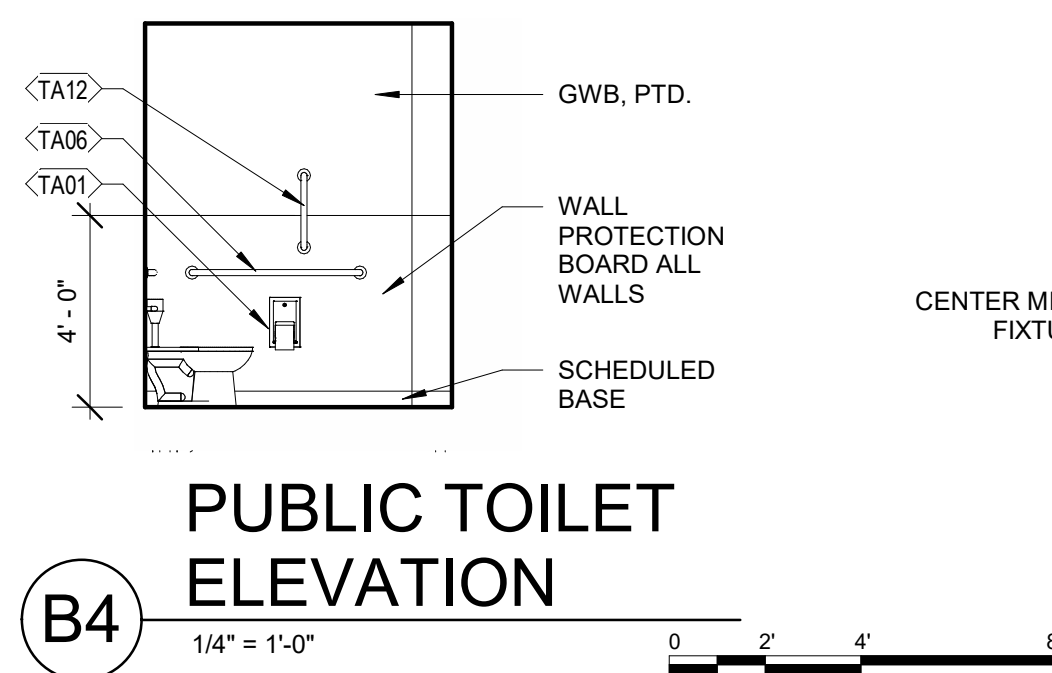
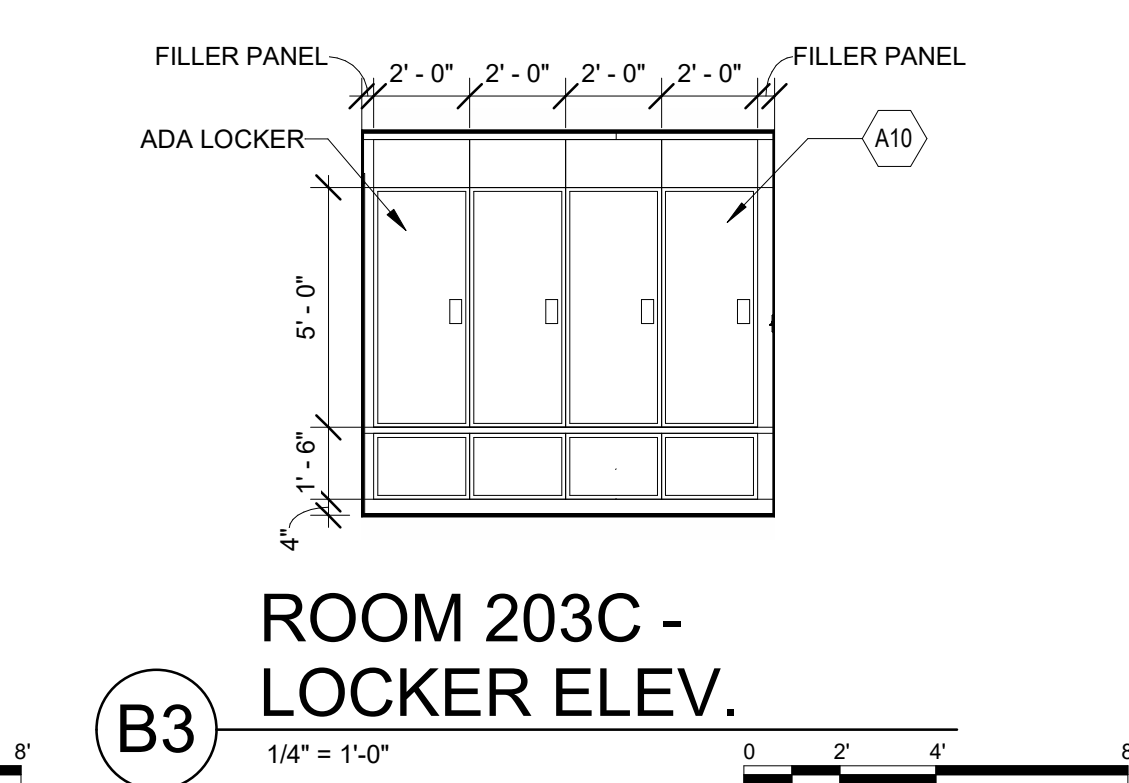
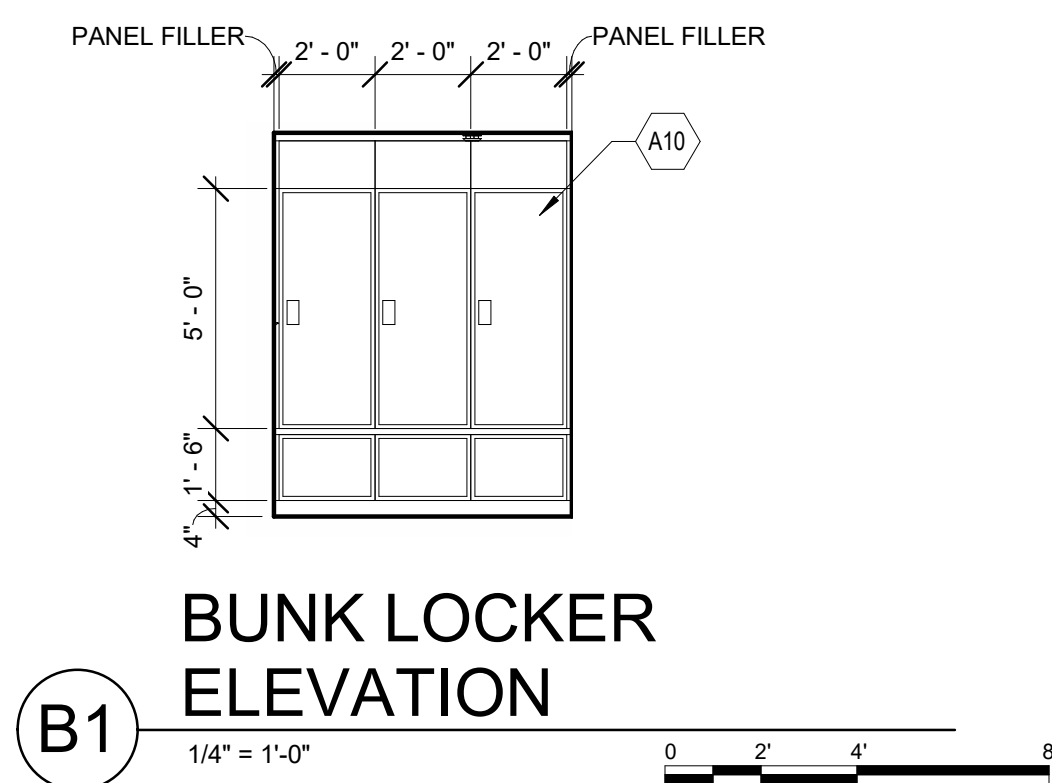
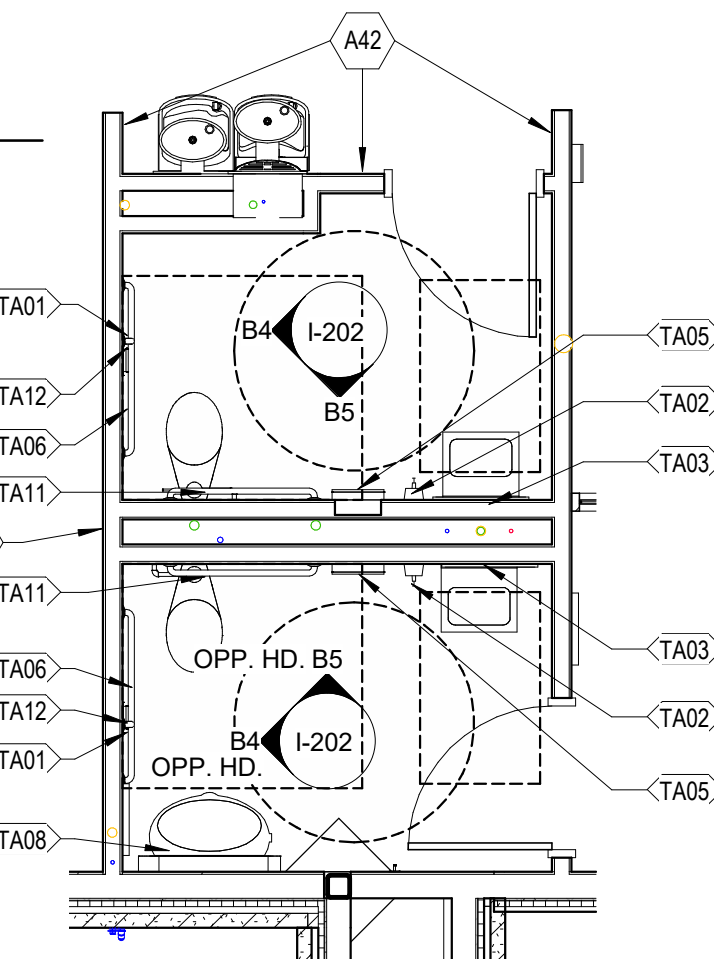
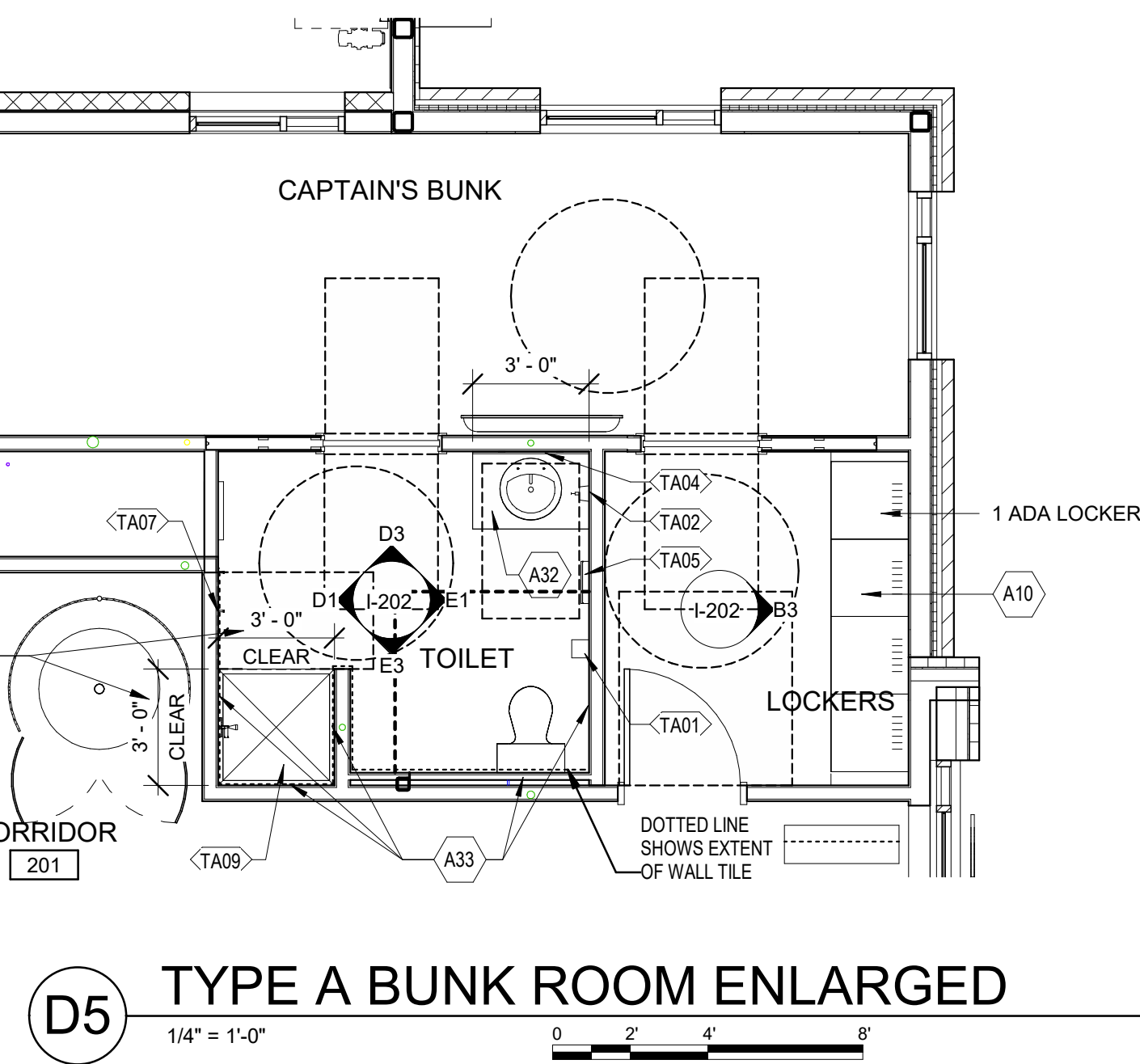
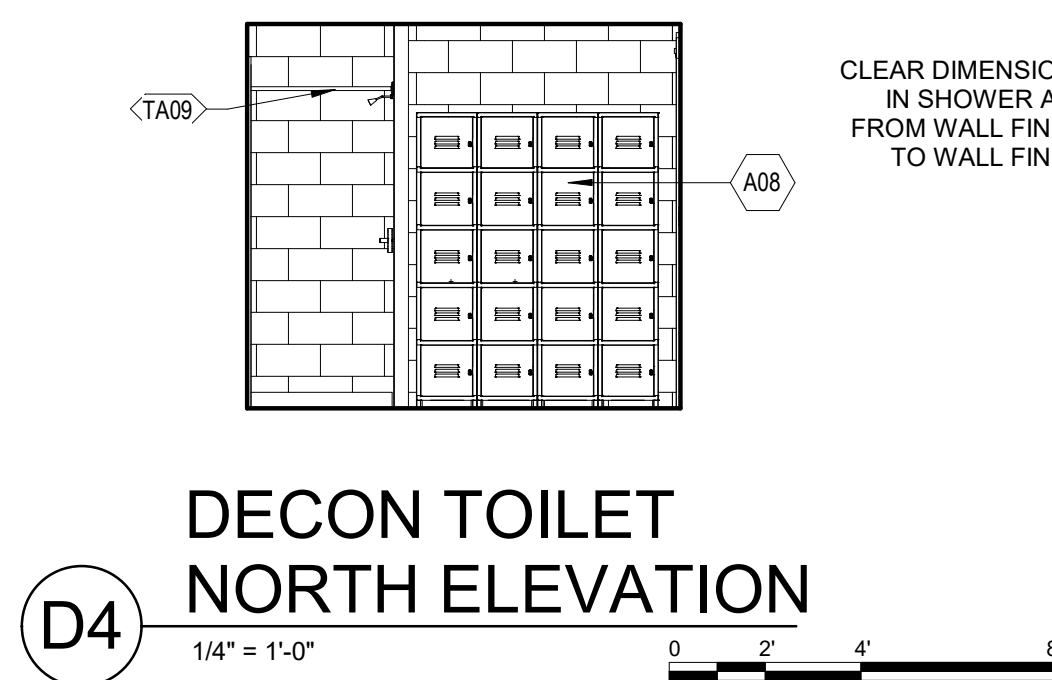
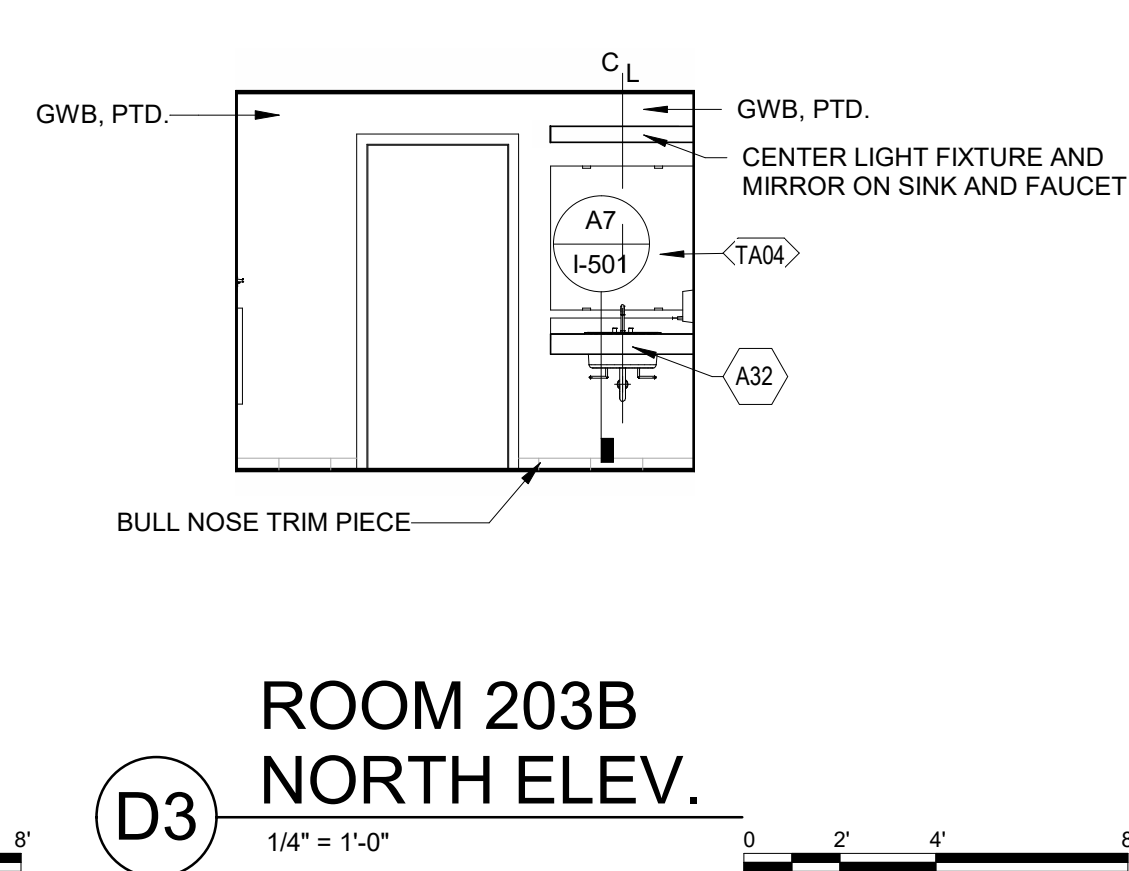
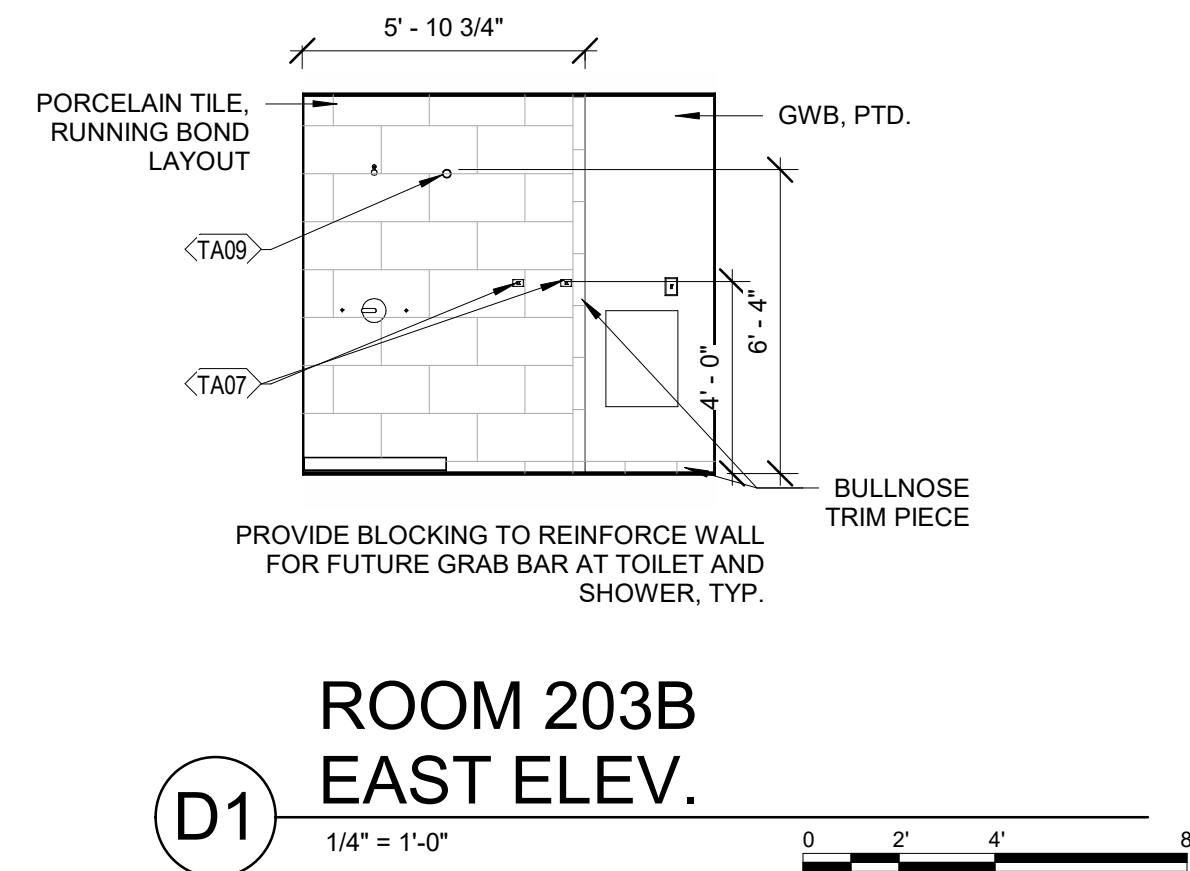
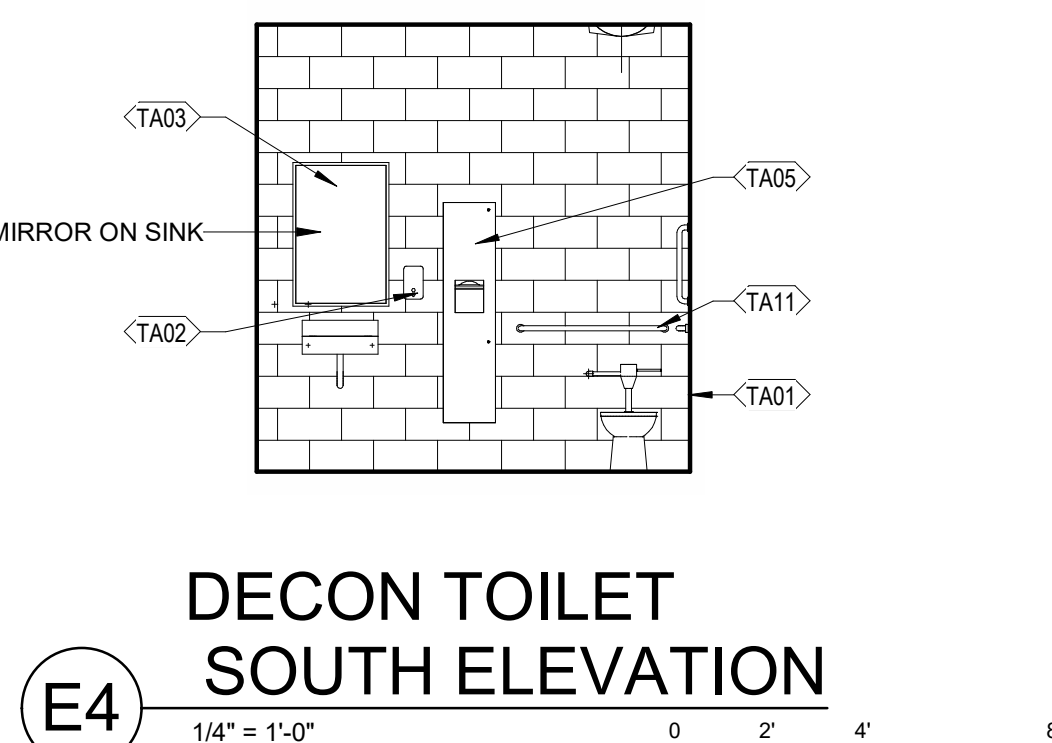
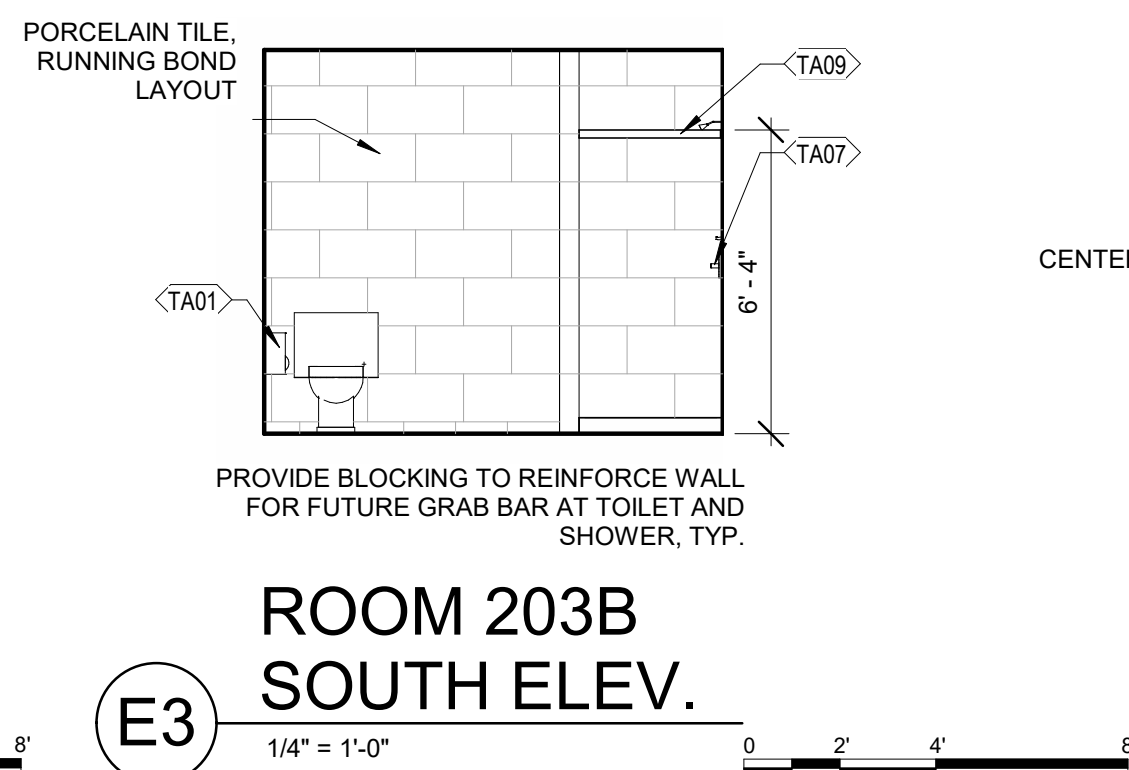
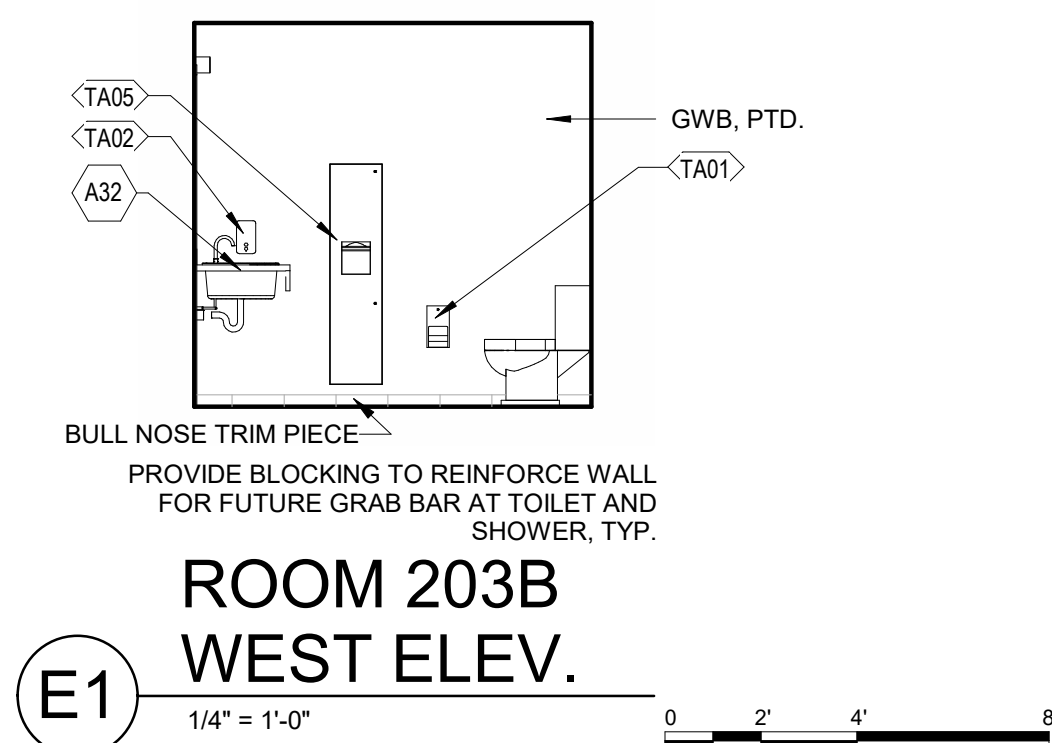
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
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TYPICAL MOUNTING HEIGHTS

I-001



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
TA06	GRAB BAR- 42" CFCI
TA07	TOWEL HOOK-CFCI
TA08	FOLD DOWN CHANGING STATION-CFCI
TA09	SHOWER ROD AND CURTAIN-CFCI
TA11	GRAB BAR- 36" CFCI
TA12	GRAB BAR- 18" CFCI



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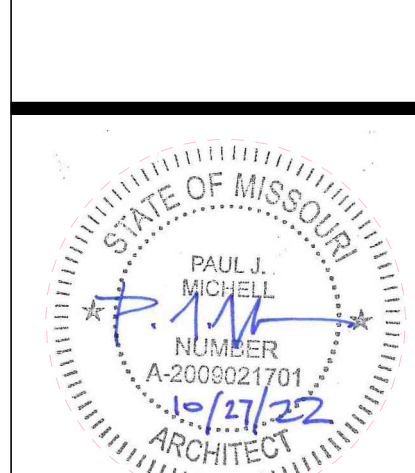
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DRAWN BY: JS

CHK'D BY:	PJ
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INTERIOR
DESIGN
ELEVATIONS

I-202

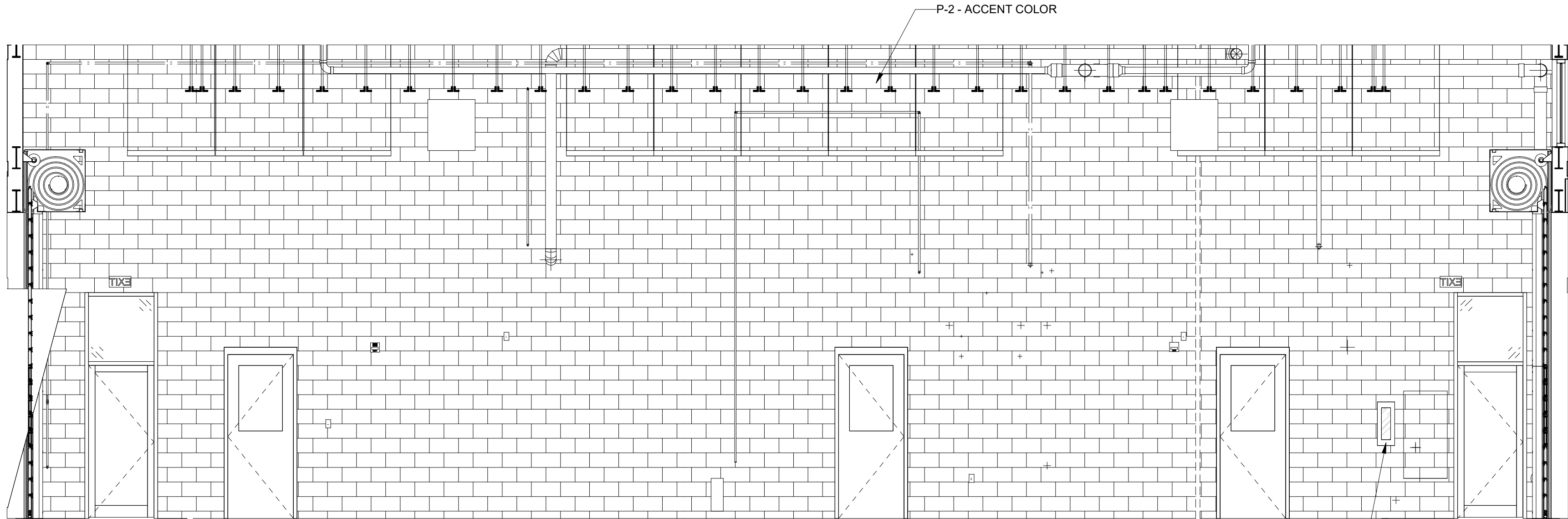
E

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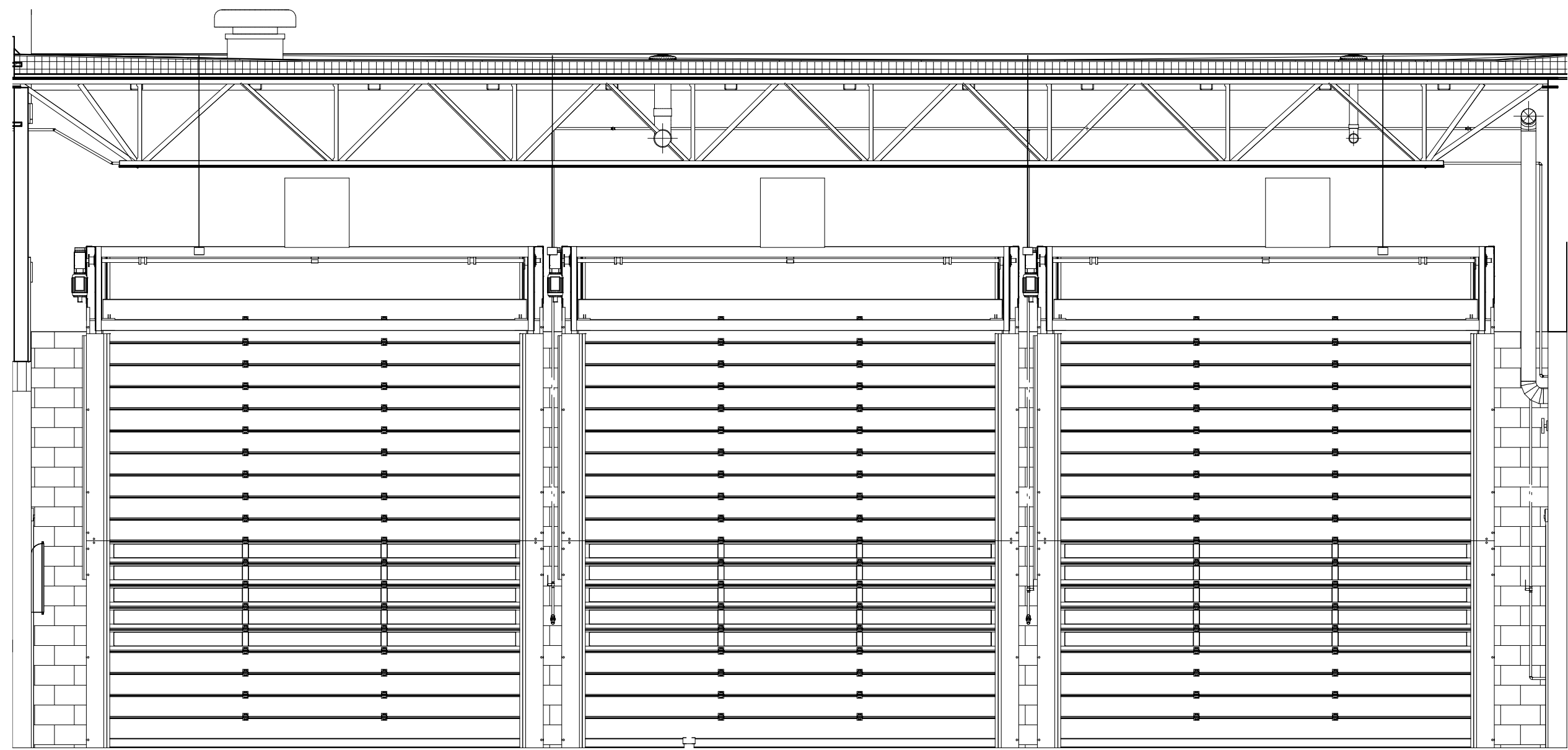
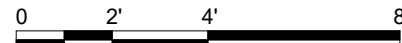
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A



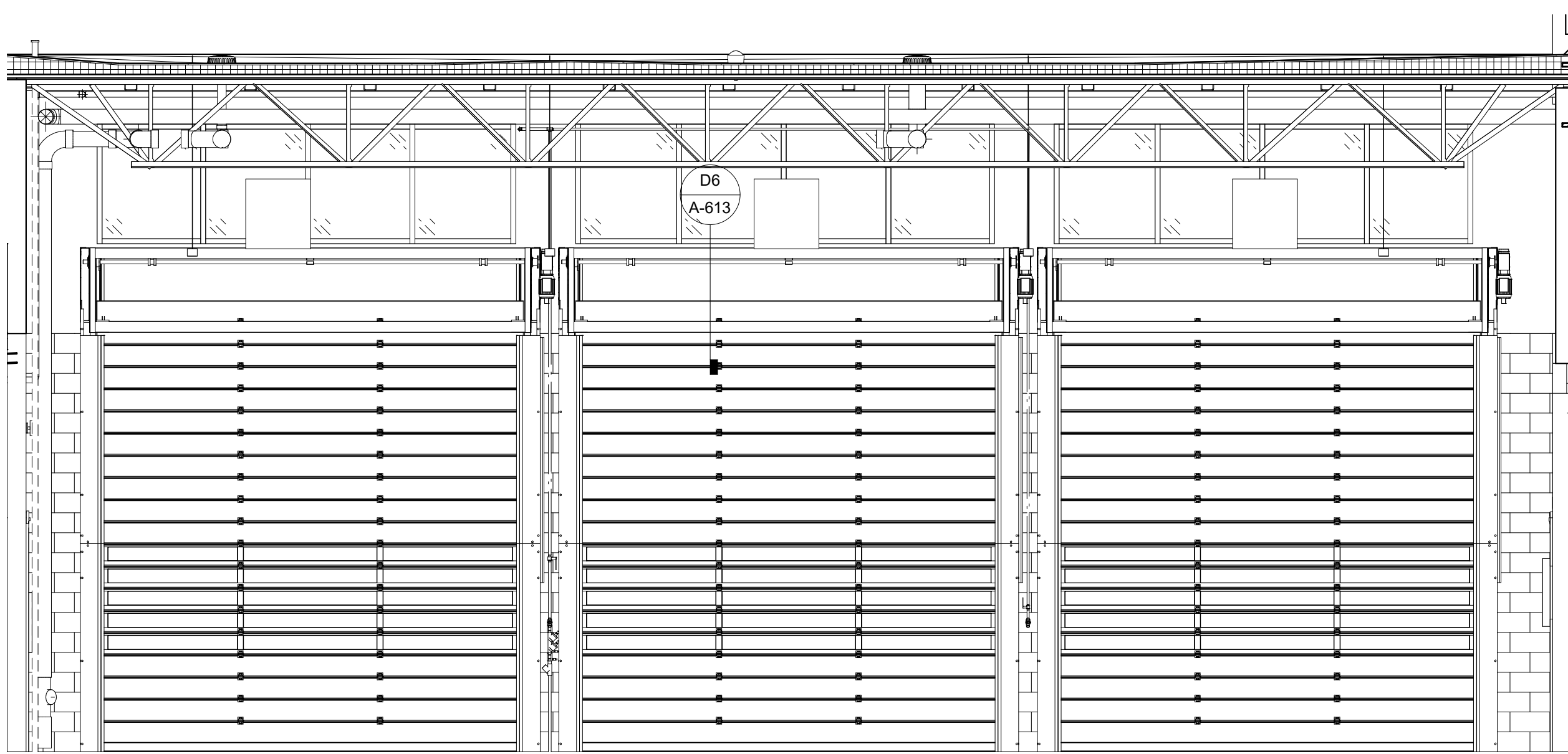
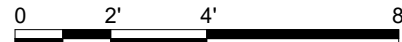
D2 APPARATUS BAY NORTH ELEVATION

1/4" = 1'-0"



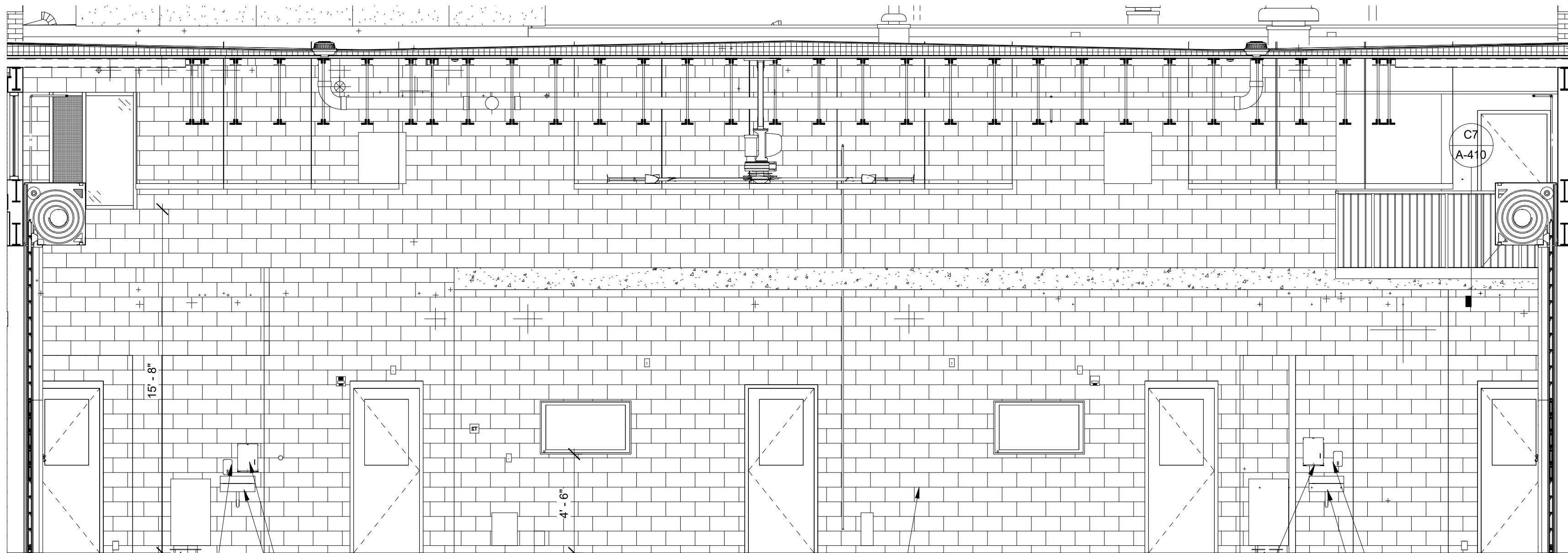
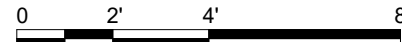
B1 APPARATUS BAY EAST ELEVATION

1/4" = 1'-0"



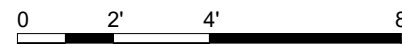
B5 APPARATUS BAY WEST ELEVATION

1/4" = 1'-0"



A3 APPARATUS BAY SOUTH ELEVATION

1/4" = 1'-0"



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APPARATUS BAY ELEVATIONS

I-203

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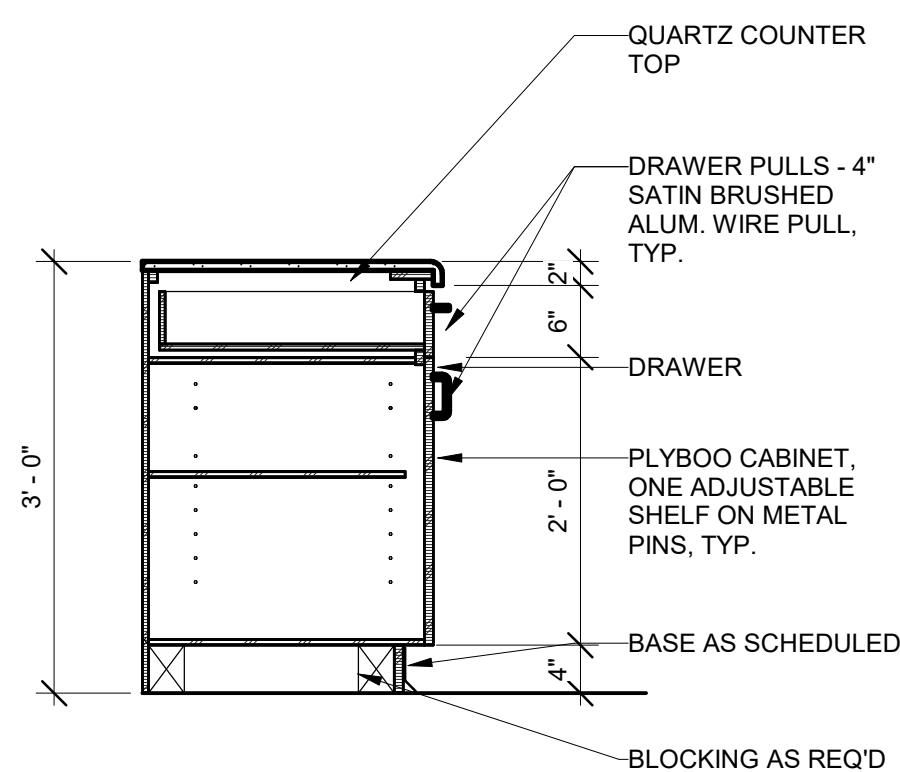
E

D

C

B

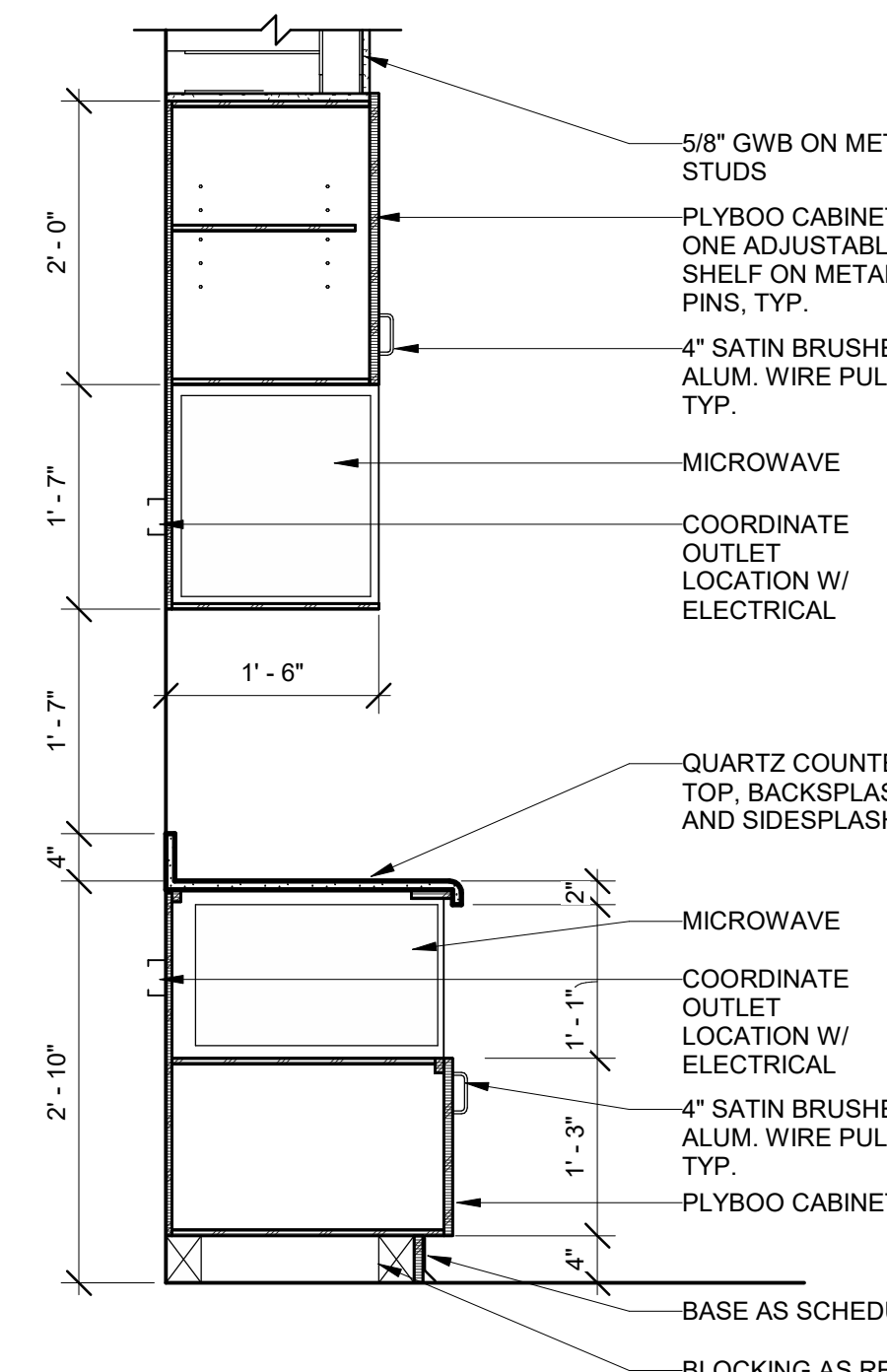
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CASEWORK SECTION
@ ISLAND

C1

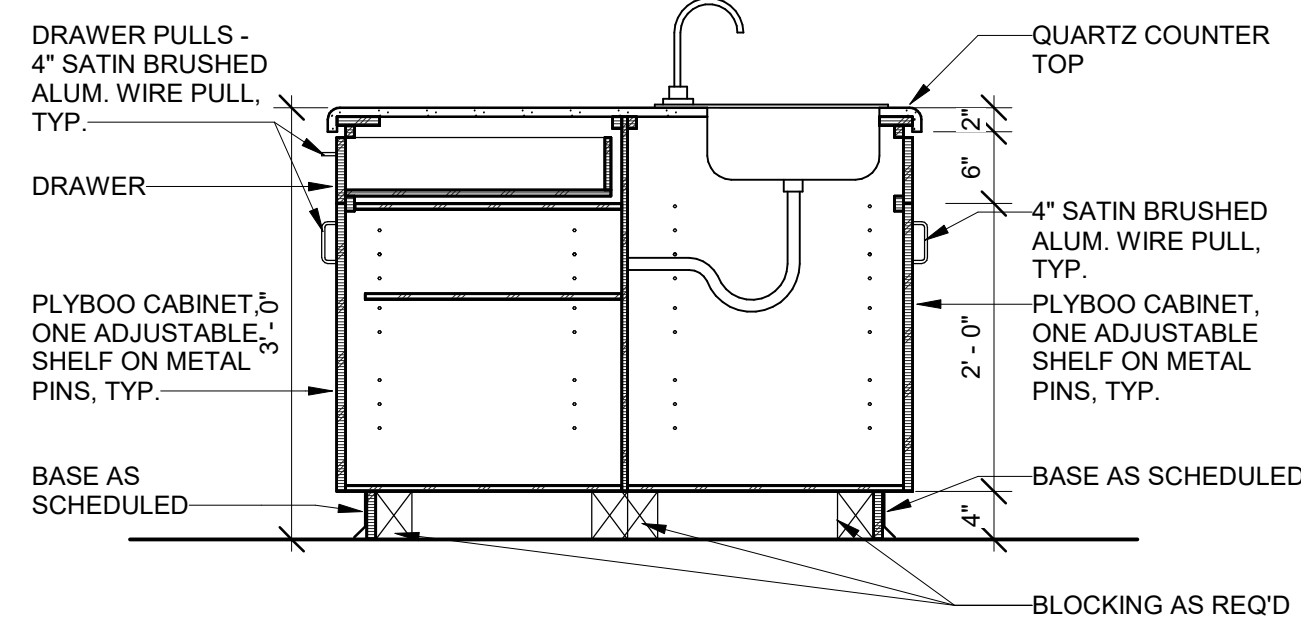
3/4" = 1'-0"



CASEWORK SECTION
@ MICROWAVE

A1

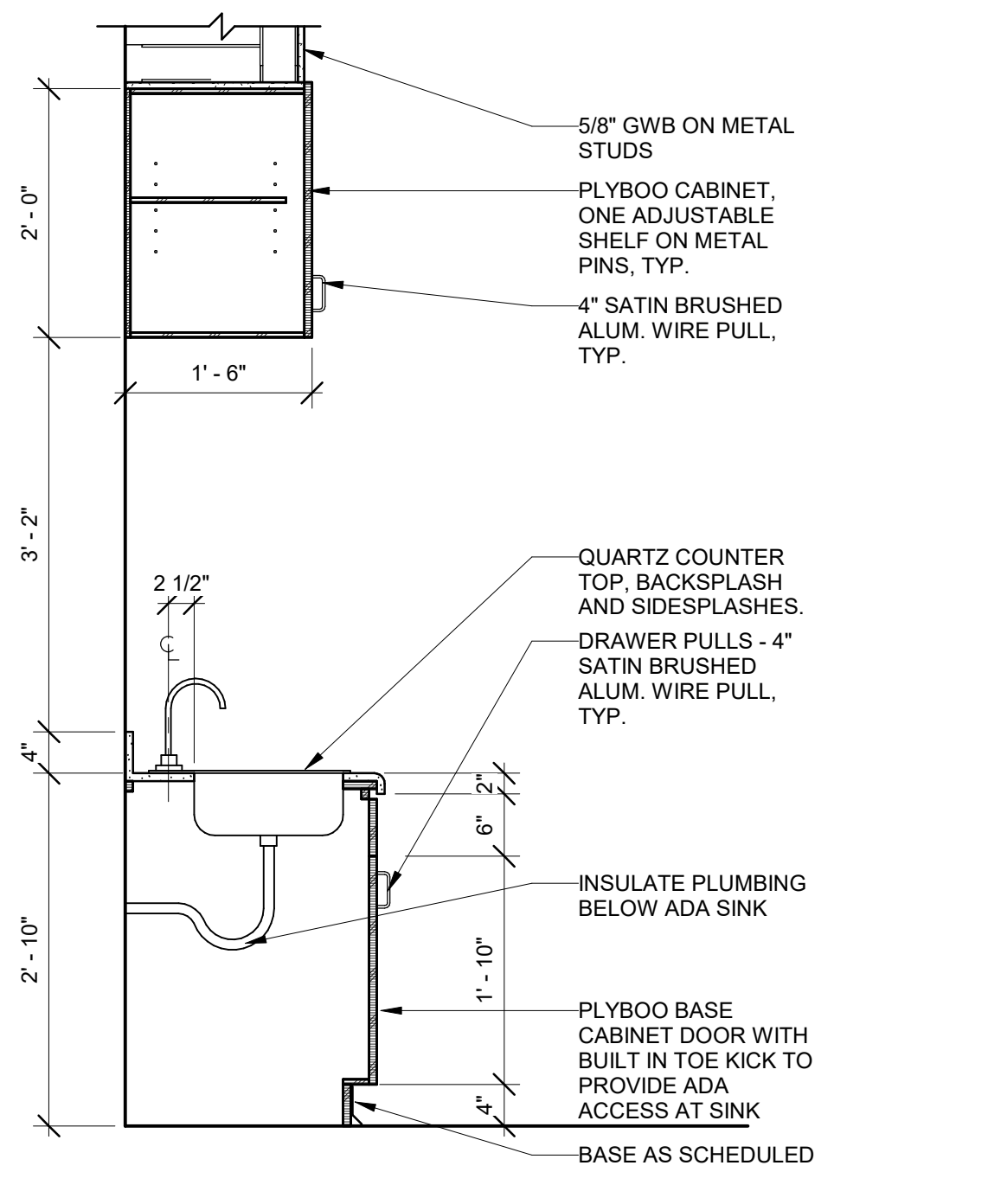
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CASEWORK SECTION
@ ISLAND SINK

C2

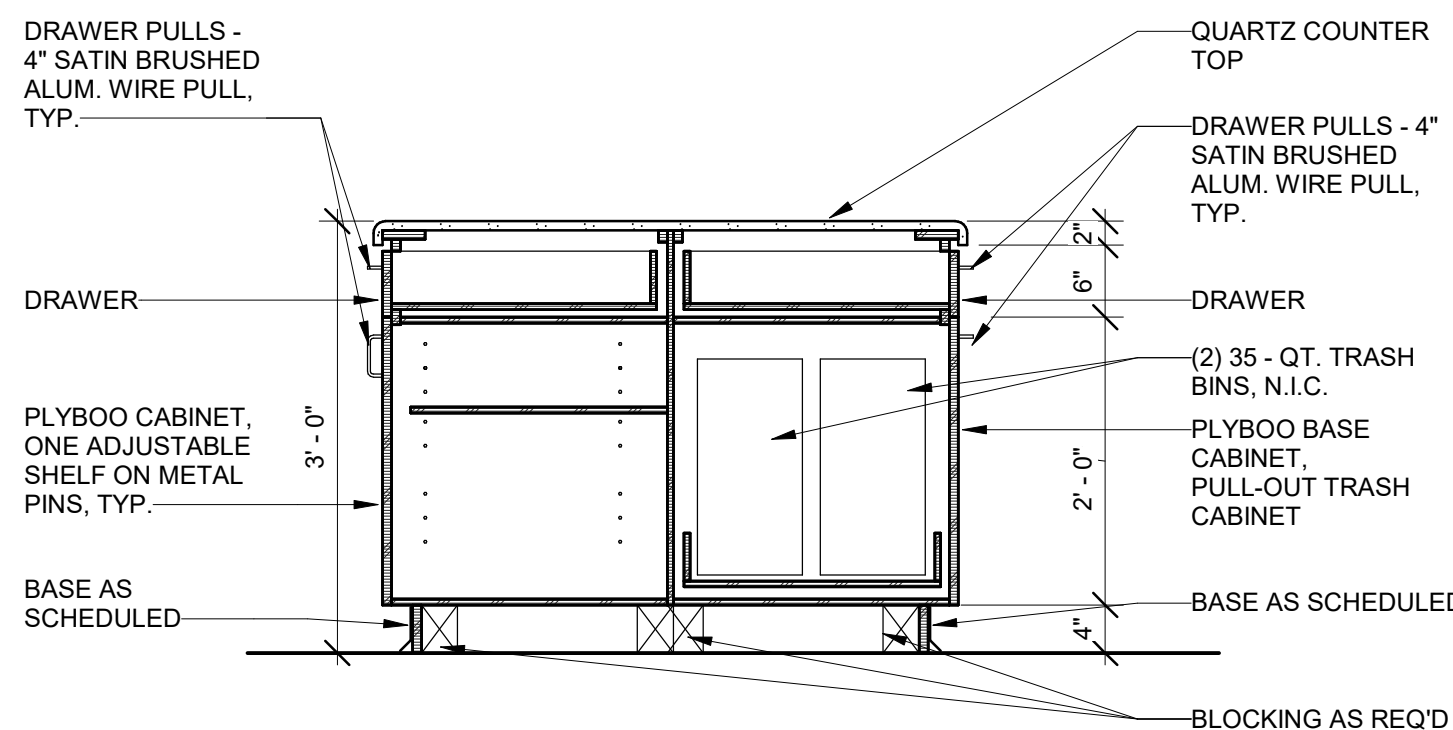
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CASEWORK SECTION
@ ADA SINK

A2

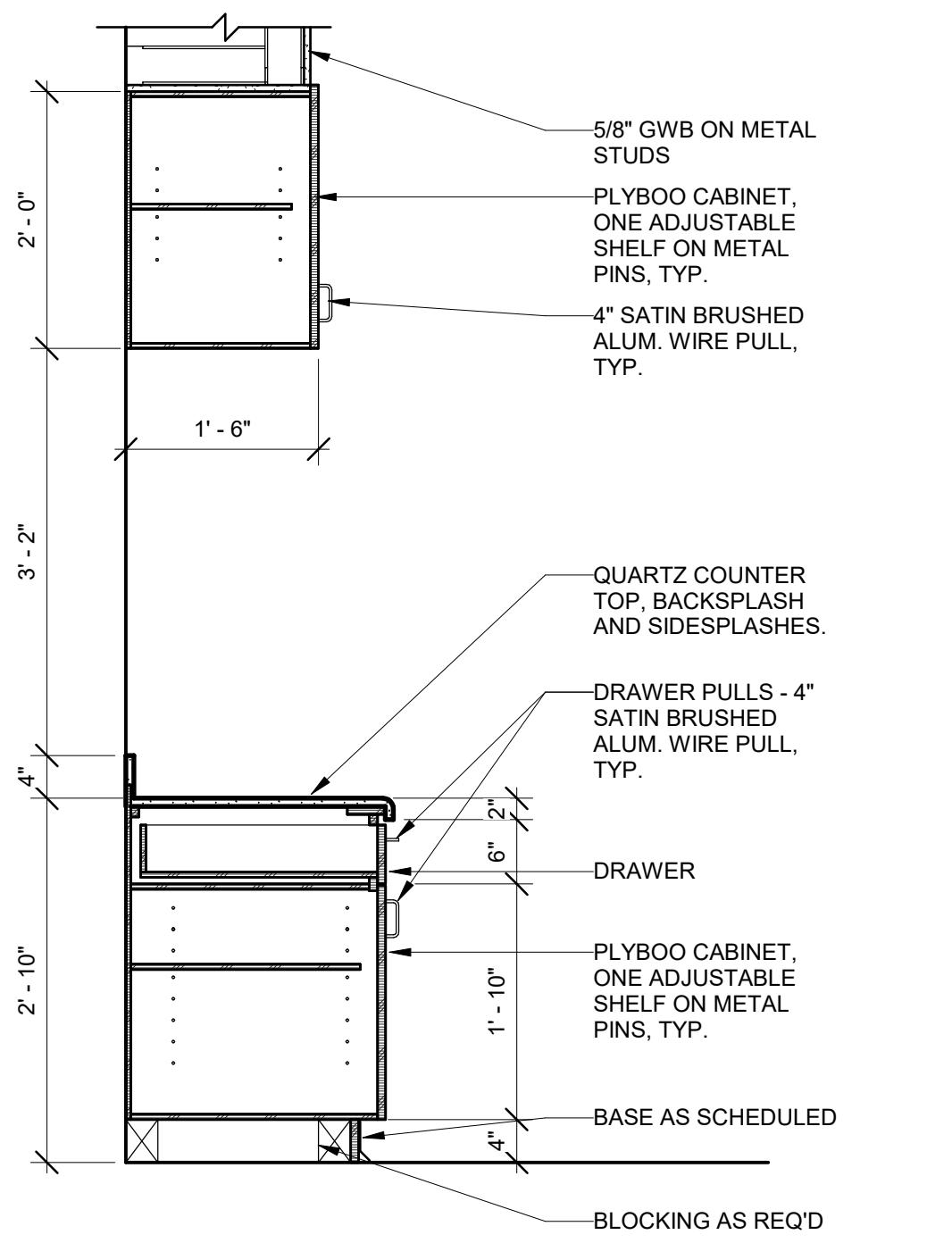
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CASEWORK SECTION
@ RECYCLING

C4

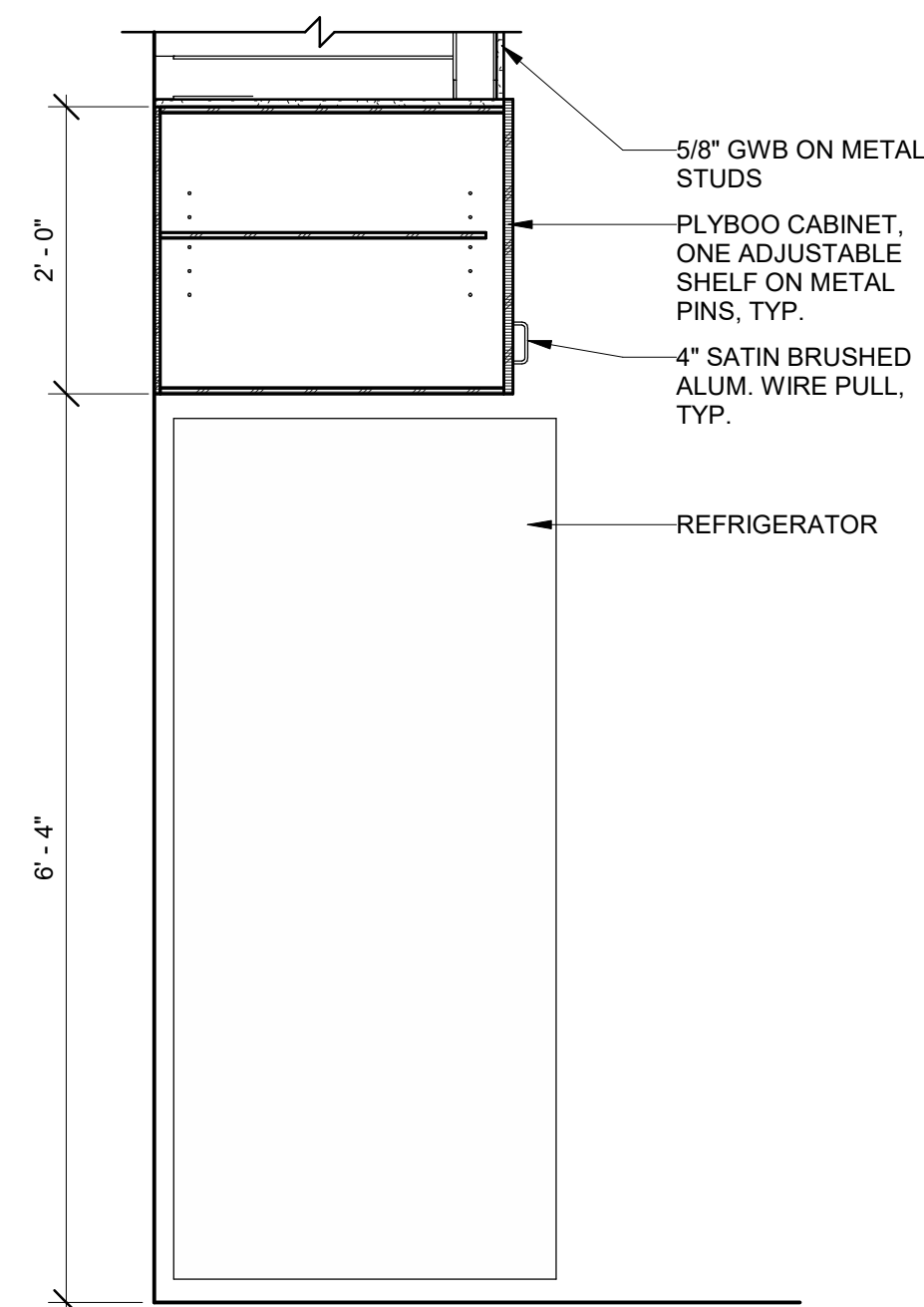
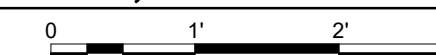
3/4" = 1'-0"



CASEWORK SECTION
@ KITCHEN ADA, TYP.

A4

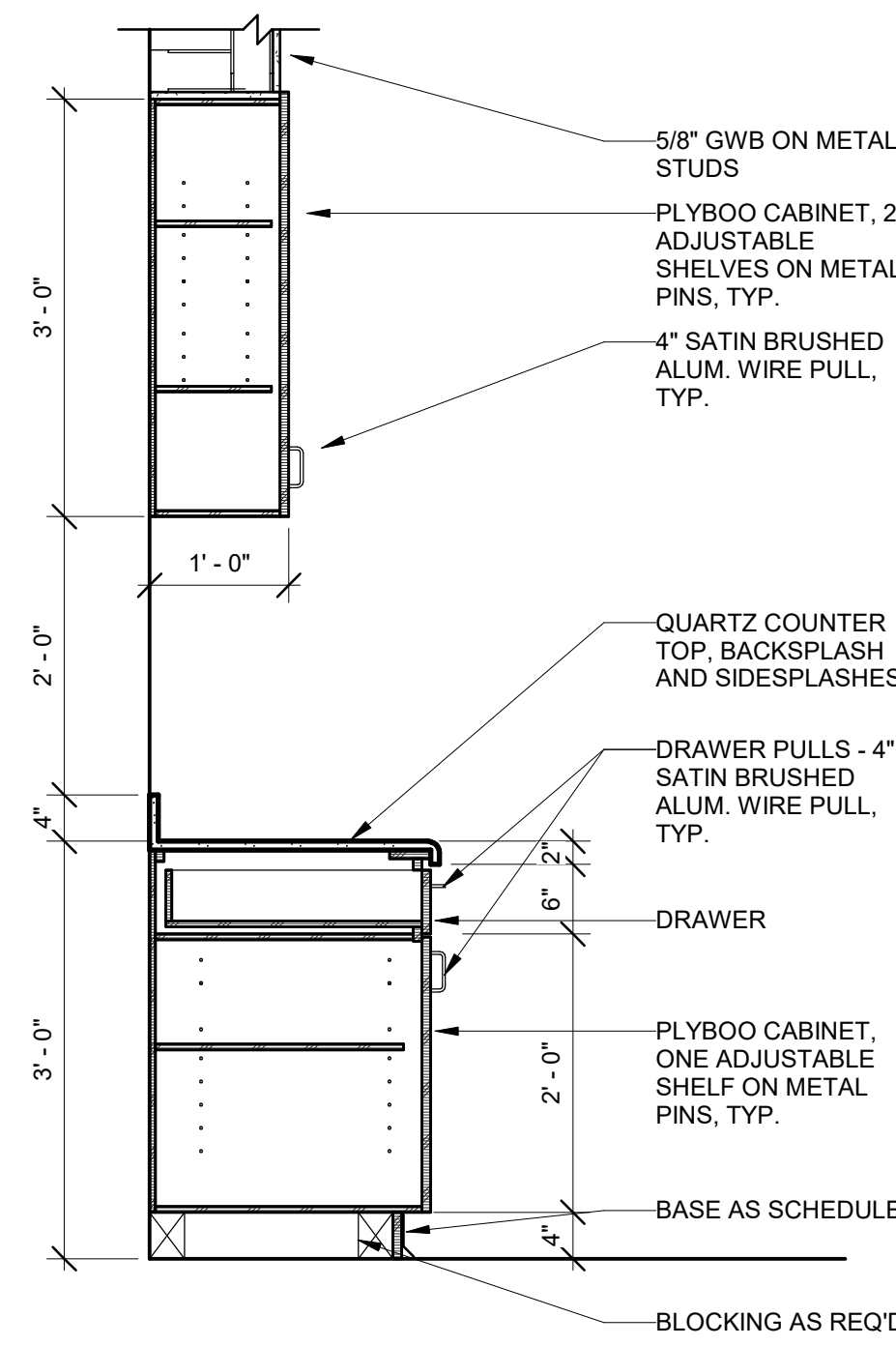
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CASEWORK SECTION
@ REFRIGERATOR

C6

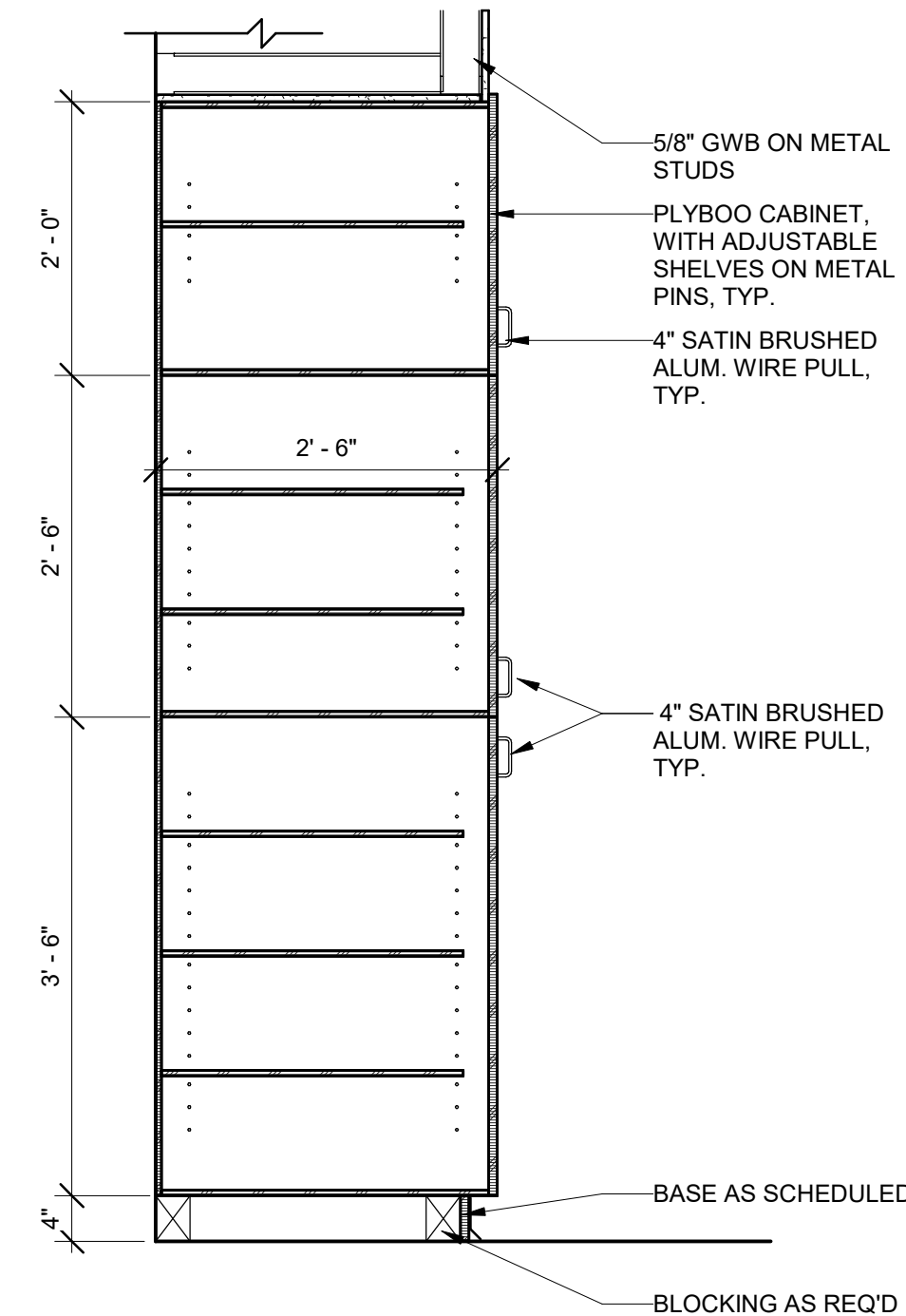
3/4" = 1'-0"



CASEWORK SECTION
@ KITCHEN, TYP.

A6

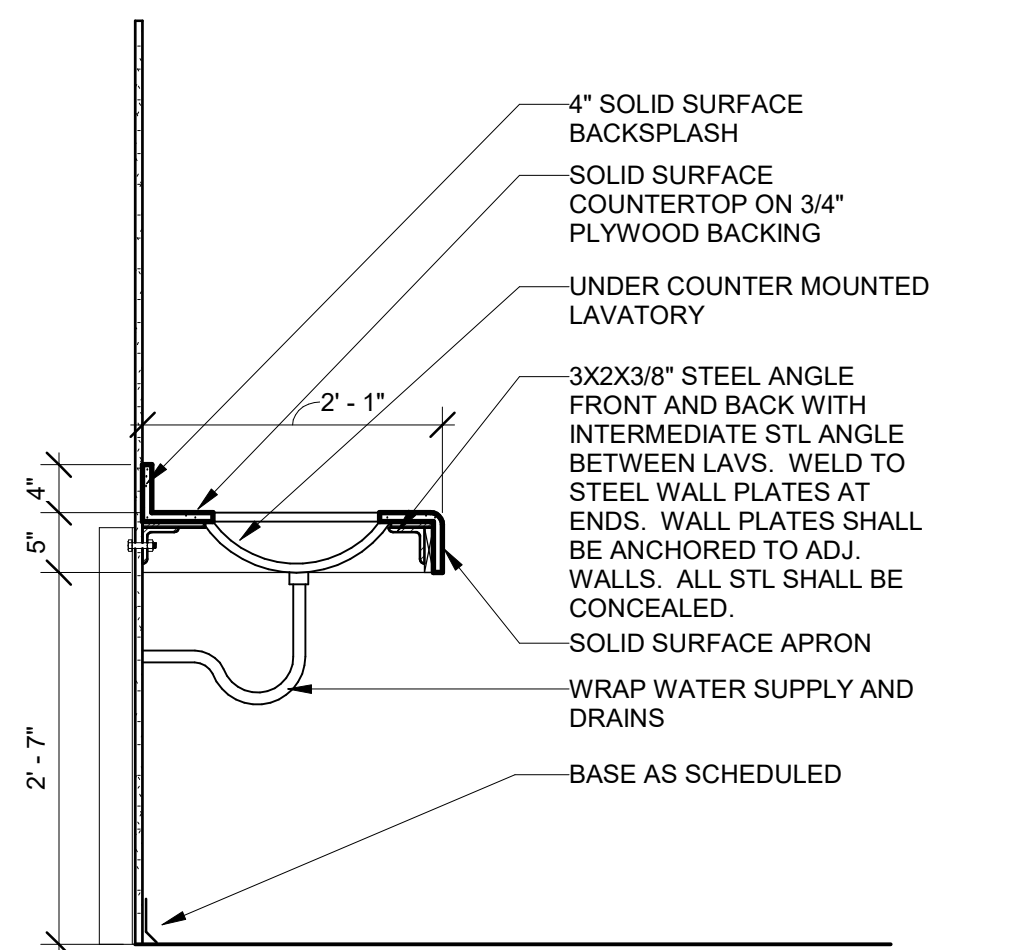
3/4" = 1'-0"



CASEWORK SECTION
@ PANTRY

C7

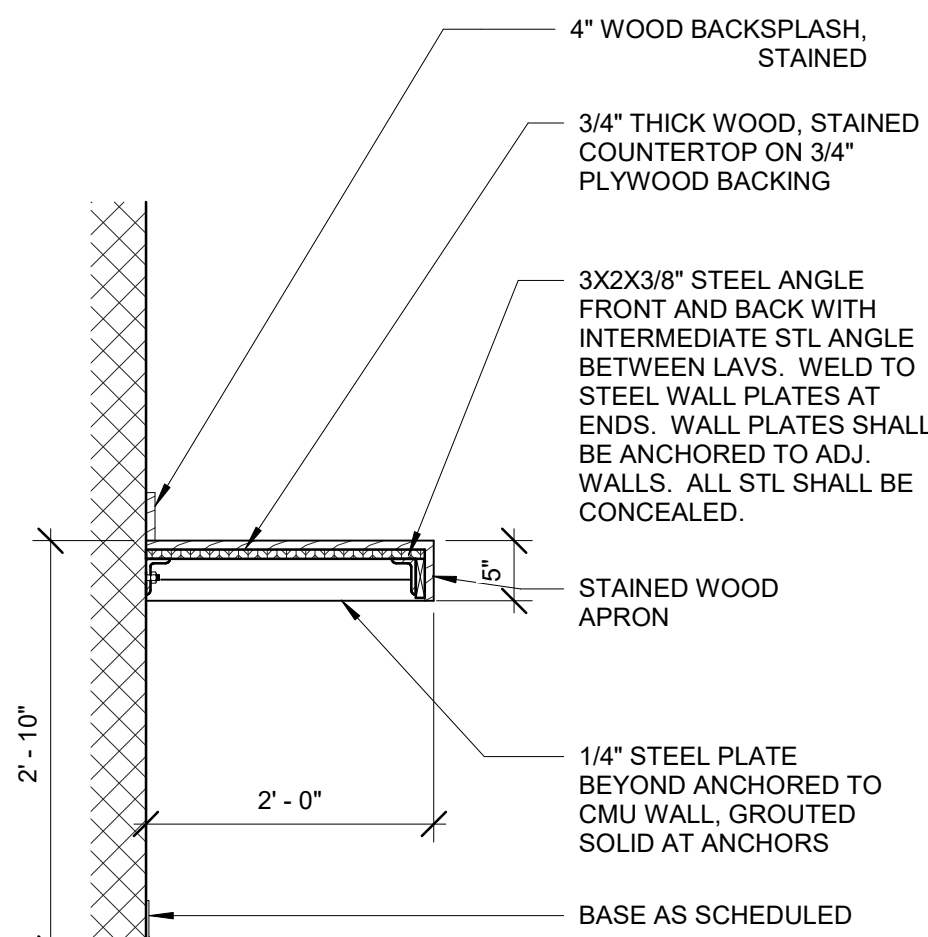
3/4" = 1'-0"



CASEWORK SECTION
@ TOILETS

A7

3/4" = 1'-0"



WORKBENCH

3/4" = 1'-0"



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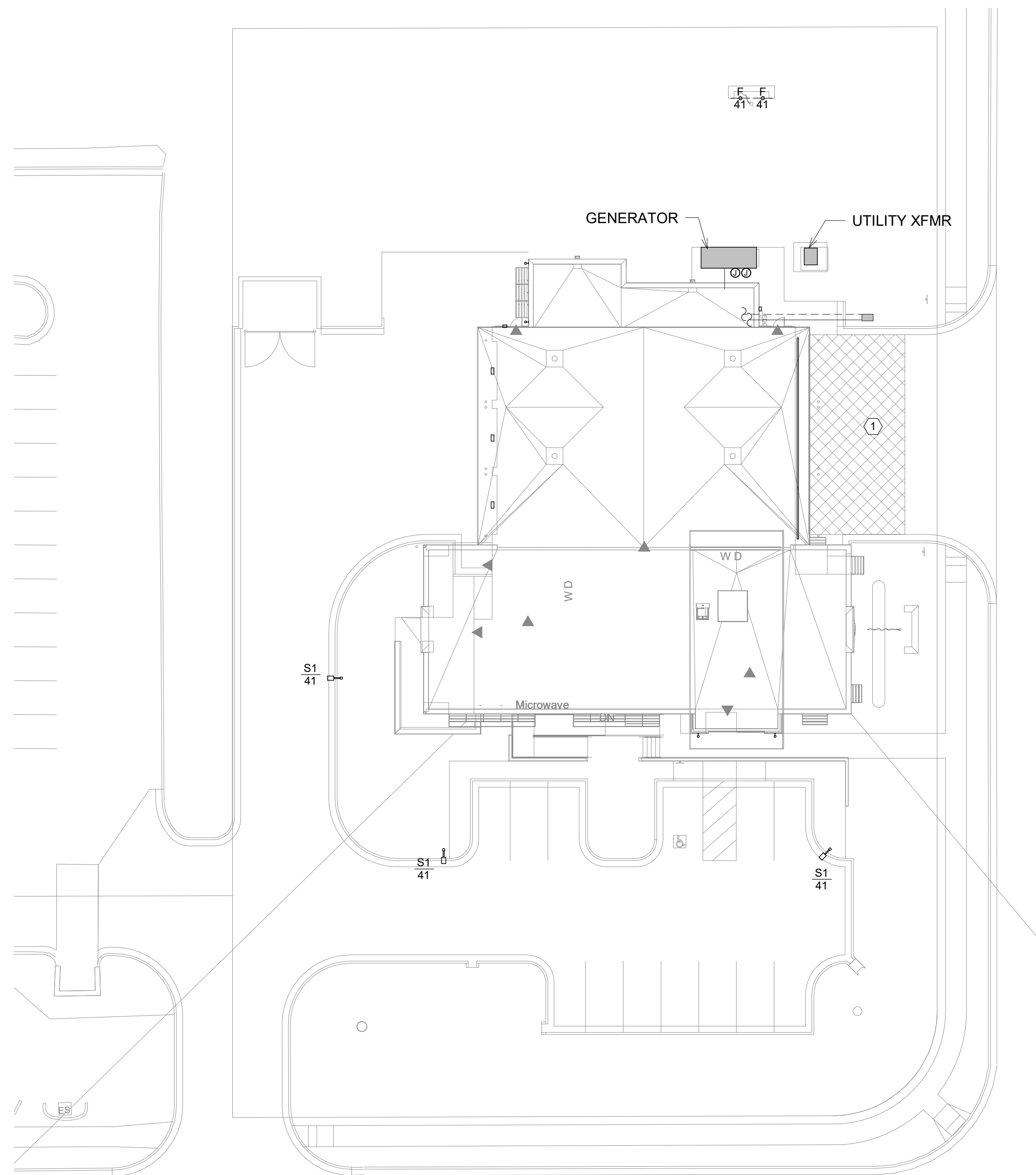
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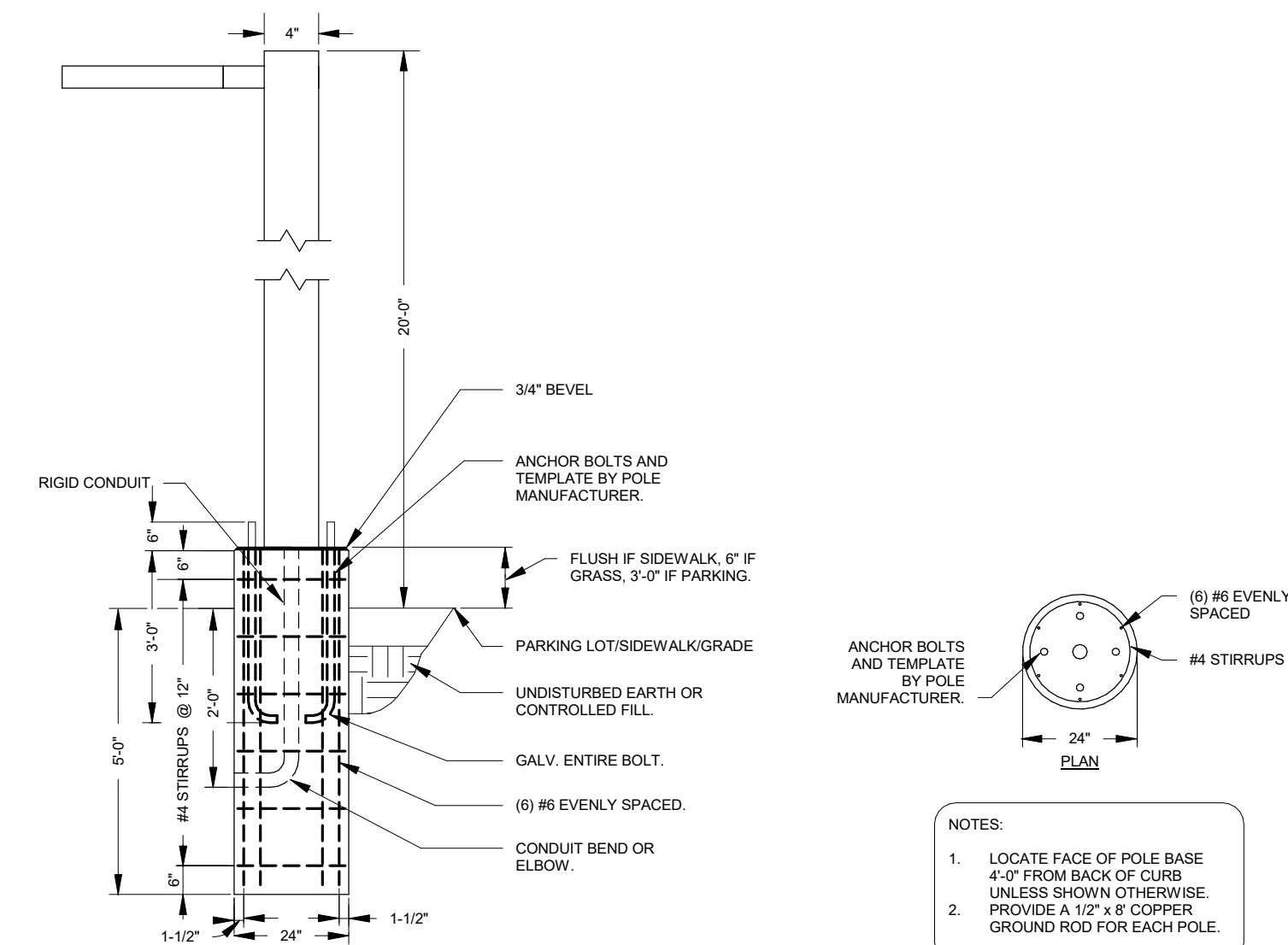
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CHK'D BY:	BJD

CASEWORK SECTIONS

I-501



A1 MPE SITE PLAN



POLE BASE DETAIL

NOT TO SCALE

PLAN NOTES:

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



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MO# PE-2007023868

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MPE SITE PLAN

ME001

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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	ML3WLAS-Y-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

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.

This architectural floor plan shows a building with a complex layout, including a large central hall, several smaller rooms, and a series of rooms along the bottom edge. The plan is overlaid with a grid of dimensions, likely in meters, indicating the spacing between structural elements or rooms. The dimensions are as follows:

Row	Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8	Col 9	Col 10	Col 11	Col 12	Col 13	Col 14	Col 15	Col 16	Col 17	Col 18	Col 19	Col 20	Col 21	Col 22	Col 23	Col 24	Col 25	Col 26	Col 27	Col 28	Col 29	Col 30	Col 31	Col 32	Col 33	Col 34	Col 35	Col 36	Col 37	Col 38	Col 39	Col 40	Col 41	Col 42	Col 43	Col 44	Col 45	Col 46	Col 47	Col 48	Col 49	Col 50	Col 51	Col 52	Col 53	Col 54	Col 55	Col 56	Col 57	Col 58	Col 59	Col 60	Col 61	Col 62	Col 63	Col 64	Col 65	Col 66	Col 67	Col 68	Col 69	Col 70	Col 71	Col 72	Col 73	Col 74	Col 75	Col 76	Col 77	Col 78	Col 79	Col 80	Col 81	Col 82	Col 83	Col 84	Col 85	Col 86	Col 87	Col 88	Col 89	Col 90	Col 91	Col 92	Col 93	Col 94	Col 95	Col 96	Col 97	Col 98	Col 99	Col 100	Col 101	Col 102	Col 103	Col 104	Col 105	Col 106	Col 107	Col 108	Col 109	Col 110	Col 111	Col 112	Col 113	Col 114	Col 115	Col 116	Col 117	Col 118	Col 119	Col 120	Col 121	Col 122	Col 123	Col 124	Col 125	Col 126	Col 127	Col 128	Col 129	Col 130	Col 131	Col 132	Col 133	Col 134	Col 135	Col 136	Col 137	Col 138	Col 139	Col 140	Col 141	Col 142	Col 143	Col 144	Col 145	Col 146	Col 147	Col 148	Col 149	Col 150	Col 151	Col 152	Col 153	Col 154	Col 155	Col 156	Col 157	Col 158	Col 159	Col 160	Col 161	Col 162	Col 163	Col 164	Col 165	Col 166	Col 167	Col 168	Col 169	Col 170	Col 171	Col 172	Col 173	Col 174	Col 175	Col 176	Col 177	Col 178	Col 179	Col 180	Col 181	Col 182	Col 183	Col 184	Col 185	Col 186	Col 187	Col 188	Col 189	Col 190	Col 191	Col 192	Col 193	Col 194	Col 195	Col 196	Col 197	Col 198	Col 199	Col 200	Col 201	Col 202	Col 203	Col 204	Col 205	Col 206	Col 207	Col 208	Col 209	Col 210	Col 211	Col 212	Col 213	Col 214	Col 215	Col 216	Col 217	Col 218	Col 219	Col 220	Col 221	Col 222	Col 223	Col 224	Col 225	Col 226	Col 227	Col 228	Col 229	Col 230	Col 231	Col 232	Col 233	Col 234	Col 235	Col 236	Col 237	Col 238	Col 239	Col 240	Col 241	Col 242	Col 243	Col 244	Col 245	Col 246	Col 247	Col 248	Col 249	Col 250	Col 251	Col 252	Col 253	Col 254	Col 255	Col 256	Col 257	Col 258	Col 259	Col 260	Col 261	Col 262	Col 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388	Col 389	Col 390	Col 391	Col 392	Col 393	Col 394	Col 395	Col 396	Col 397	Col 398	Col 399	Col 400	Col 401	Col 402	Col 403	Col 404	Col 405	Col 406	Col 407	Col 408	Col 409	Col 410	Col 411	Col 412	Col 413	Col 414	Col 415	Col 416	Col 417	Col 418	Col 419	Col 420	Col 421	Col 422	Col 423	Col 424	Col 425	Col 426	Col 427	Col 428	Col 429	Col 430	Col 431	Col 432	Col 433	Col 434	Col 435	Col 436	Col 437	Col 438	Col 439	Col 440	Col 441	Col 442	Col 443	Col 444	Col 445	Col 446	Col 447	Col 448	Col 449	Col 450	Col 451	Col 452	Col 453	Col 454	Col 455	Col 456	Col 457	Col 458	Col 459	Col 460	Col 461	Col 462	Col 463	Col 464	Col 465	Col 466	Col 467	Col 468	Col 469	Col 470	Col 471	Col 472	Col 473	Col 474	Col 475	Col 476	Col 477	Col 478	Col 479	Col 480	Col 481	Col 482	Col 483	Col 484	Col 485	Col 486	Col 487	Col 488	Col 489	Col 490	Col 491	Col 492	Col 493	Col 494	Col 495	Col 496	Col 497	Col 498	Col 499	Col 500	Col 501	Col 502	Col 503	Col 504	Col 505	Col 506	Col 507	Col 508	Col 509	Col 510	Col 511	Col 512	Col 513	Col 514	Col 515	Col 516	Col 517	Col 518	Col 519	Col 520	Col 521	Col 522	Col 523	Col 524	Col 525	Col 526	Col 527	Col 528	Col 529	Col 530	Col 531	Col 532	Col 533	Col 534	Col 535	Col 536	Col 537	Col 538	Col 539	Col 540	Col 541	Col 542	Col 543	Col 544	Col 545	Col 546	Col 547	Col 548	Col 549	Col 550	Col 551	Col 552	Col 553	Col 554	Col 555	Col 556	Col 557	Col 558	Col 559	Col 560	Col 561	Col 562	Col 563	Col 564	Col 565	Col 566	Col 567	Col 568	Col 569	Col 570	Col 571	Col 572	Col 573	Col 574	Col 575	Col 576	Col 577	Col 578	Col 579	Col 580	Col 581	Col 582	Col 583	Col 584	Col 585	Col 586	Col 587	Col 588	Col 589	Col 590	Col 591	Col 592	Col 593	Col 594	Col 595	Col 596	Col 597	Col 598	Col 599	Col 600	Col 601	Col 602	Col 603	Col 604	Col 605	Col 606	Col 607	Col 608	Col 609	Col 610	Col 611	Col 612	Col 613	Col 614	Col 615	Col 616	Col 617	Col 618	Col 619	Col 620	Col 621	Col 622	Col 623	Col 624	Col 625	Col 626	Col 627	Col 628	Col 629	Col 630	Col 631	Col 632	Col 633	Col 634	Col 635	Col 636	Col 637	Col 638	Col 639	Col 640	Col 641	Col 642	Col 643	Col 644	Col 645	Col 646	Col 647	Col 648	Col 649	Col 650	Col 651	Col 652	Col 653	Col 654	Col 655	Col 656	Col 657	Col 658	Col 659	Col 660	Col 661	Col 662	Col 663	Col 664	Col 665	Col 666	Col 667	Col 668	Col 669	Col 670	Col 671	Col 672	Col 673	Col 674	Col 675	Col 676	Col 677	Col 678	Col 679	Col 680	Col 681	Col 682	Col 683	Col 684	Col 685	Col 686	Col 687	Col 688	Col 689	Col 690	Col 691	Col 692	Col 693	Col 694	Col 695	Col 696	Col 697	Col 698	Col 699	Col 700	Col 701	Col 702	Col 703	Col 704	Col 705	Col 706	Col 707	Col 708	Col 709	Col 710	Col 711	Col 712	Col 713	Col 714	Col 715	Col 716	Col 717	Col 718	Col 719	Col 720	Col 721	Col 722	Col 723	Col 724	Col 725	Col 726	Col 727	Col 728	Col 729	Col 730	Col 731	Col 732	Col 733	Col 734	Col 735	Col 736	Col 737	Col 738	Col 739	Col 740	Col 741	Col 742	Col 743	Col 744	Col 745	Col 746	Col 747	Col 748	Col 749	Col 750	Col 751	Col 752	Col 753	Col 754	Col 755	Col 756	Col 757	Col 758	Col 759	Col 760	Col 761	Col 762	Col 763	Col 764	Col 765	Col 766	Col 767	Col 768	Col 769	Col 770	Col 771	Col 772	Col 773	Col 774	Col 775	Col 776	Col 777	Col 778	Col 779	Col 780	Col 781	Col 782	Col 783	Col 784	Col 785	Col 786	Col 787	Col 788	Col 789	Col 790	Col 791	Col 792	Col 793	Col 794	Col 795	Col 796	Col 797	Col 798	Col 799	Col 800	Col 801	Col 802	Col 803	Col 804	Col 805	Col 806	Col 807	Col 808	Col 809	Col 810	Col 811	Col 812	Col 813	Col 814	Col 815	Col 816	Col 817	Col 818	Col 819	Col 820	Col 821	Col 822	Col 823	Col 824	Col 825	Col 826	Col 827	Col 828	Col 829	Col 830	Col 831	Col 832	Col 833	Col 834	Col 835	Col 836	Col 837	Col 838	Col 839	Col 840	Col 841	Col 842	Col 843	Col 844	Col 845	Col 846	Col 847	Col 848	Col 849	Col 850	Col 851	Col 852	Col 853	Col 854	Col 855	Col 856	Col 857	Col 858	Col 859	Col 860	Col 861	Col 862	Col 863	Col 864	Col 865	Col 866	Col 867	Col 868	Col 869	Col 870	Col 871	Col 872	Col 873	Col 874	Col 875	Col 876	Col 877	Col 878	Col 879	Col 880	Col 881	Col 882	Col 883	Col 884	Col 885	Col 886	Col 887	Col 888	Col 889	Col 890	Col 891	Col 892	Col 893	Col 894	Col 895	Col 896	Col 897	Col 898	Col 899	Col 900	Col 901	Col 902	Col 903	Col 904	Col 905	Col 906	Col 907	Col 908	Col 909	Col 910	Col 911	Col 912	Col 913	Col 914	Col 915	Col 916	Col 917	Col 918	Col 919	Col 920	Col 921	Col 922	Col 923	Col 924	Col 925	Col 926	Col 927	Col 928	Col 929	Col 930	Col 931	Col 932	Col 933	Col 934	Col 935	Col 936	Col 937	Col 938	Col 939	Col 940	Col 941	Col 942	Col 943	Col 944	Col 945	Col 946	Col 947	Col 948	Col 949	Col 950	Col 951	Col 952	Col 953	Col 954	Col 955	Col 956	Col 957	Col 958	Col 959	Col 960	Col 961	Col 962	Col 963	Col 964	Col 965	Col 966	Col 967	Col 968	Col 969	Col 970	Col 971	Col 972	Col 973	Col 974	Col 975	Col 976	Col 977	Col 978	Col 979	Col 980	Col 981	Col 982	Col 983	Col 984	Col 985	Col 986	Col 987	Col 988	Col 989	Col 990	Col 991	Col 992	Col 993	Col 994	Col 995	Col 996	Col 997	Col 998	Col 999	Col 1000	Col 1001	Col 1002	Col 1003	Col 1004	Col 1005	Col 1006	Col 1007	Col 1008	Col 1009	Col 1010	Col 1011	Col 1012	Col 1013	Col 1014	Col 1015	Col 1016	Col 1017	Col 1018	Col 1019	Col 1020	Col 1021	Col 1022	Col 1023	Col 1024	Col 1025	Col 1026	Col 1027	Col 1028	Col 1029	Col 1030	Col 1031	Col 1032	Col 1033	Col 1034	Col 1035	Col 1036	Col 1037	Col 1038	Col 1039	Col 1040	Col 1041	Col 1042	Col 1043	Col 1044	Col 1045	Col 1046	Col 1047	Col 1048	Col 1049	Col 1050	Col 1051	Col 1052	Col 1053	Col 1054	Col 1055	Col 1056	Col 1057	Col 1058	Col 1059	Col 1060	Col 1061	Col 1062	Col 1063	Col 1064	Col 1065	Col 1066	Col 1067	Col 1068	Col 1069	Col 1070	Col 1071	Col 1072	Col 1073	Col 1074	Col 1075	Col 1076	Col 1077	Col 1078	Col 1079	Col 1080	Col 1081	Col 1082	Col 1083	Col 1084	Col 1085	Col 1086	Col 1087	Col 1088	Col 1089	Col 1090	Col 1091	Col 1092	Col 1093	Col 1094	Col 1095	Col 1096	Col 1097	Col 1098	Col 1099	Col 1100	Col 1101	Col 1102	Col 1103	Col 1104	Col 1105	Col 1106	Col 1107	Col 1108	Col 1109	Col 1110	Col 1111	Col 1112	Col 1113	Col 1114	Col 1115	Col 1116
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FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5/LSMO_FIRE STATION_5_MEP_V19.rvt

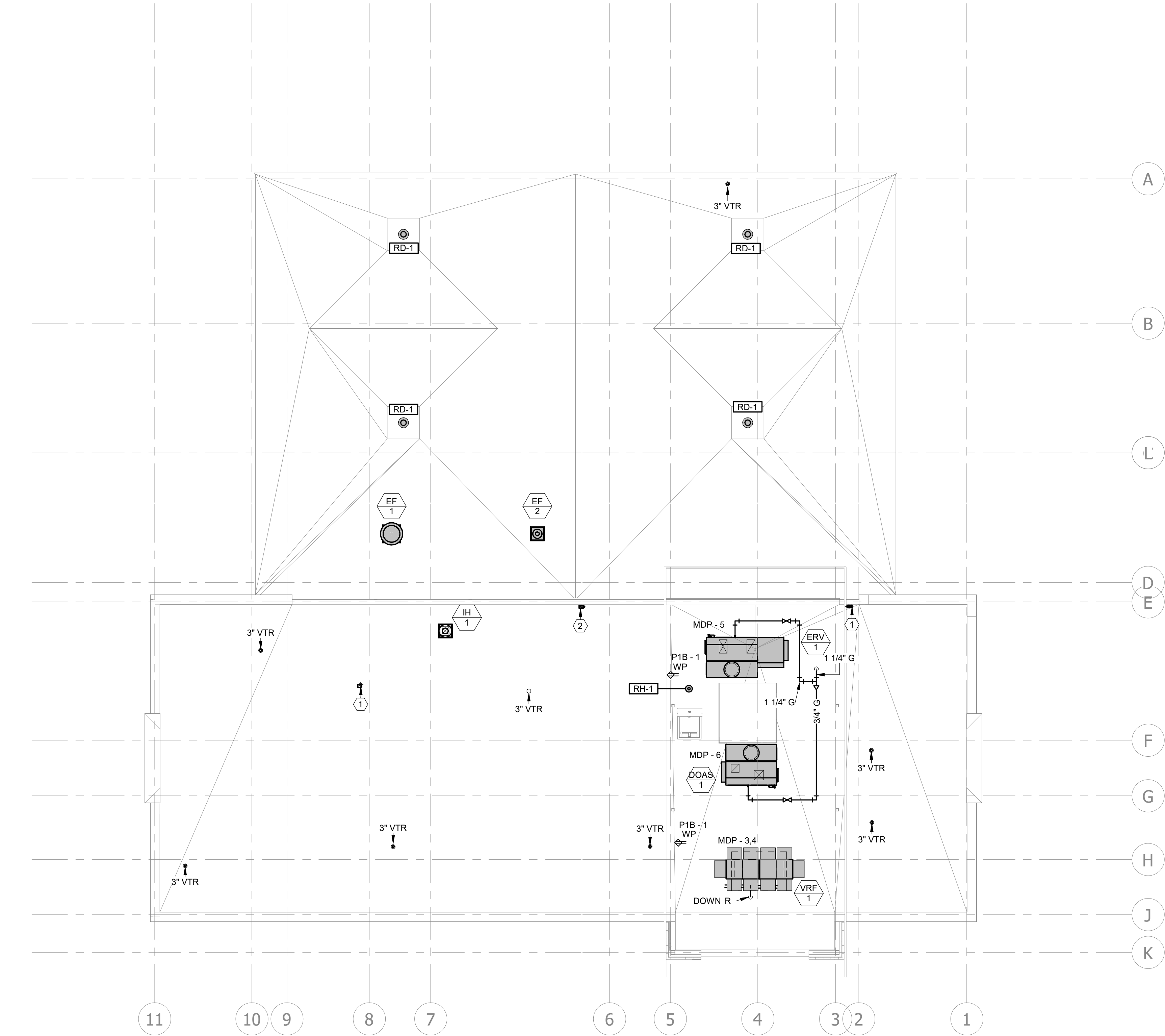
E

D

C

B

A



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

MECHANICAL PLAN NOTES:

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

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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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STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER
PE-2007023868
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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MPE ROOF PLAN

ME101

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E

D

C

B

A

HVAC MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS

CONTROLS (TOP OF DEVICE) 48" AFF

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

ANNOTATIONS

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

PIPE FITTINGS AND VALVES

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

PIPING

- CWS CHILLED WATER SUPPLY
- CWR CHILLED WATER RETURN
- HCS HOT-CHILLED WATER SUPPLY
- HCR HOT-CHILLED WATER RETURN
- HWS HEATING HOT WATER SUPPLY
- HWR HEATING HOT WATER RETURN
- HPS HEATING HOT WATER SUPPLY
- HPR HEATING HOT WATER RETURN
- CD CONDENSATE DRAIN PIPING
- RL REFRIGERANT LIQUID
- RS REFRIGERANT SUCTION
- IN INTAKE PIPING
- EX EXHAUST PIPING

TEMPERATURE CONTROLS

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

LINETYPE LEGEND

- EXISTING TO REMAIN
- NEW WORK
- DEMOLISH

DUCTWORK

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

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

HVAC GENERAL NOTES

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

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HVAC SYMBOLS LEGEND

M001

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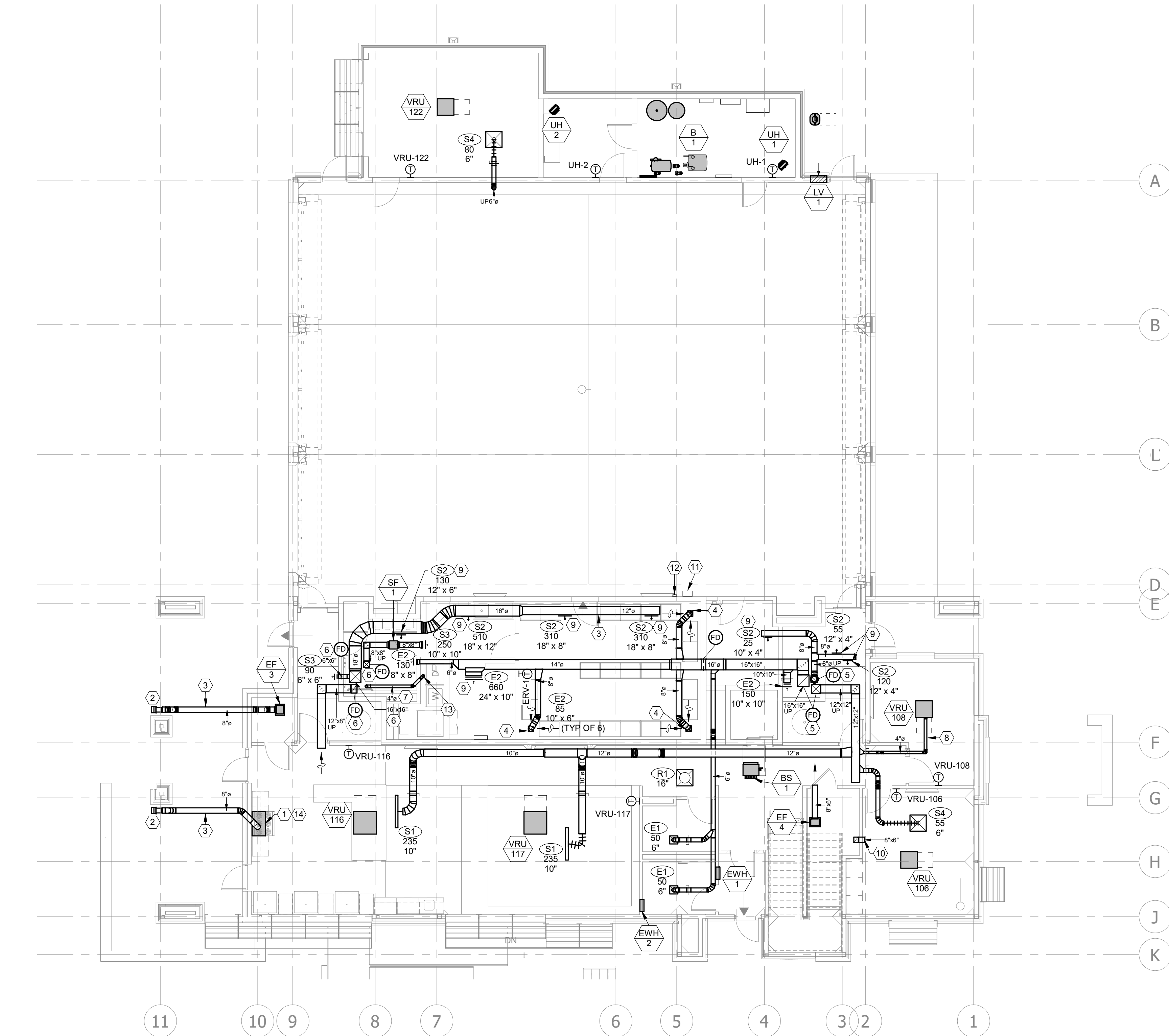
E

D

C

B

A



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

MECHANICAL PLAN NOTES:

1. PROVIDE ZLINE, OR EQUAL, MODEL 597 36" STAINLESS STEEL WALL MOUNTED HOOD. MAXIMUM OF 500CFM AIRFLOW WITH INTEGRAL CONTROLS. PROVIDE MATCHING STAINLESS STEEL DUCT SHROUD LENGTH AS REQUIRED TO REACH THE CEILING HEIGHT.
2. PROVIDE BROAN, OR EQUAL, MODEL 647 WALL CAP WITH INTEGRAL BACKDRAFT DAMPER AND BIRD SCREEN.
3. ROUTE DUCT TIGHT TO THE BOTTOM OF STRUCTURE.
4. PROVIDE 8X8 PLENUM AT BOTTOM OF ROUND DUCT. PROVIDE (2) TYPE E2 EXHAUST GRILLES, ONE EACH FACING THE LOCKERS. BOTTOM OF GRILLE AT 18" AFF.
5. PROVIDE FIRE DAMPER AT FLOOR PENETRATION.
6. PROVIDE 3HR RATED FIRE DAMPER AT WALL/CEILING PENETRATION. COORDINATE PENETRATION WITH STRUCTURAL.
7. 4" DRYER DUCT TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
8. CONNECT TO OUTSIDE AIR DUCT CONNECTION INLET ON CEILING CASSETTE
9. MOUNT DIFFUSER AT 30" FROM HORIZONTAL.
10. AIR TRANSFER FROM CONFERENCE-106 FOR EF-4. ROUTE DUCT TIGHT TO WALL TO 12" AFF.
11. AIR-VAC SYSTEM CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER AND MANUFACTURERS RECOMMENDATIONS. REFER TO SPECS.
12. MULTIGAS SYSTEM CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER AND MANUFACTURERS RECOMMENDATIONS. REFER TO SPECS.
13. 4" DRYER VENT.
14. PROVIDE FIRE SUPPRESSION SYSTEM WITHIN THE RANGE HOOD TYPICAL OF GUARDIAN MODEL #S300B. FURNISH WITH 3-PRONG APPLIANCE SHUTOFF. CONNECTION TO GAS SOLENOID VALVE AND WIRELESS RECEIVER FOR RANGE SHUT DOWN TO BE INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE WITH REMOTE MANUAL PULL STATION AND REMOTE ALARM/STROBE ASSEMBLY. PROVIDE WITH PULL STATION FOR REMOTE ACTIVATION TO BE INSTALLED BY ELECTRICAL CONTRACTOR.

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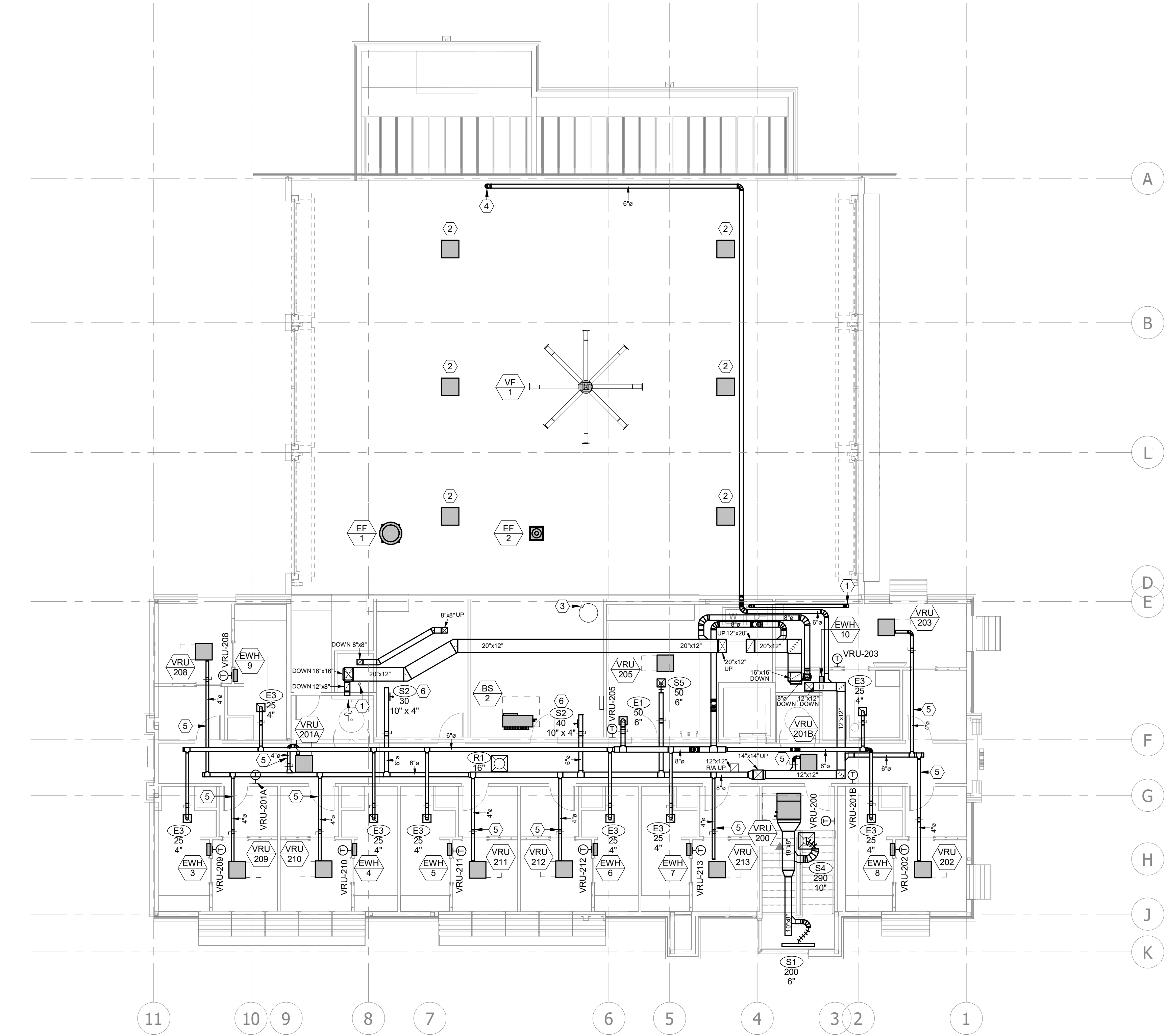
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FIRST FLOOR
HVAC PLAN

M101

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



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**SECOND FLOOR
HVAC PLAN**

M102

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



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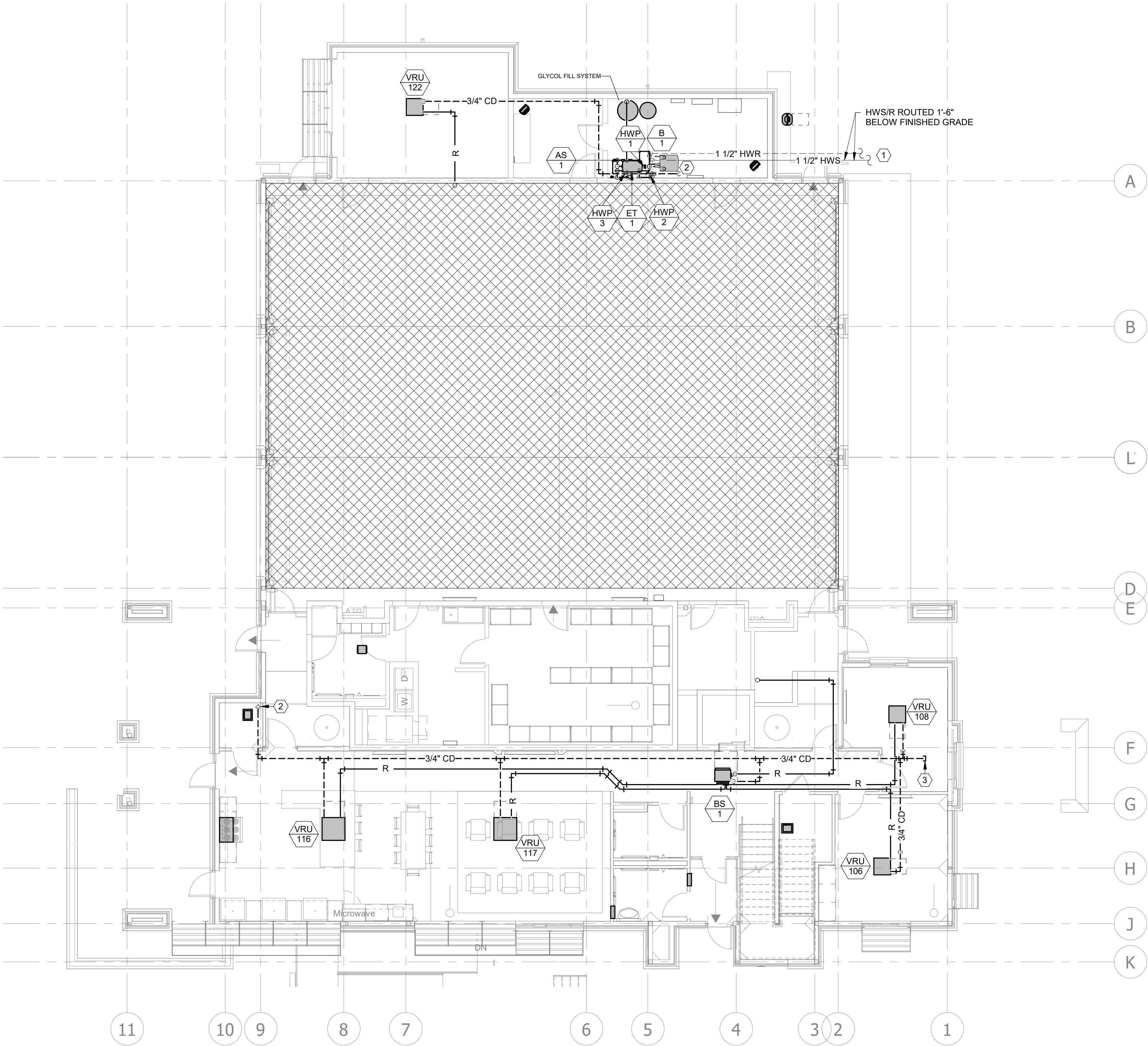
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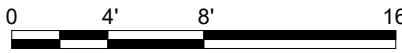
**FIRST FLOOR
HVAC PIPING
PLAN**

M201

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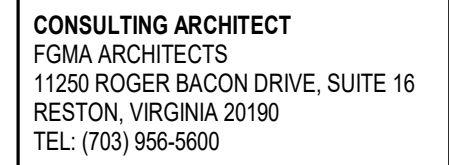


A1 FIRST FLOOR HVAC PIPING PLAN
1/8" = 1'-0"





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



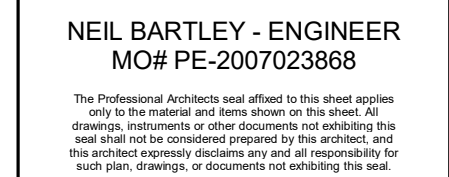
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SECOND FLOOR HVAC PIPING PLAN

M202

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E

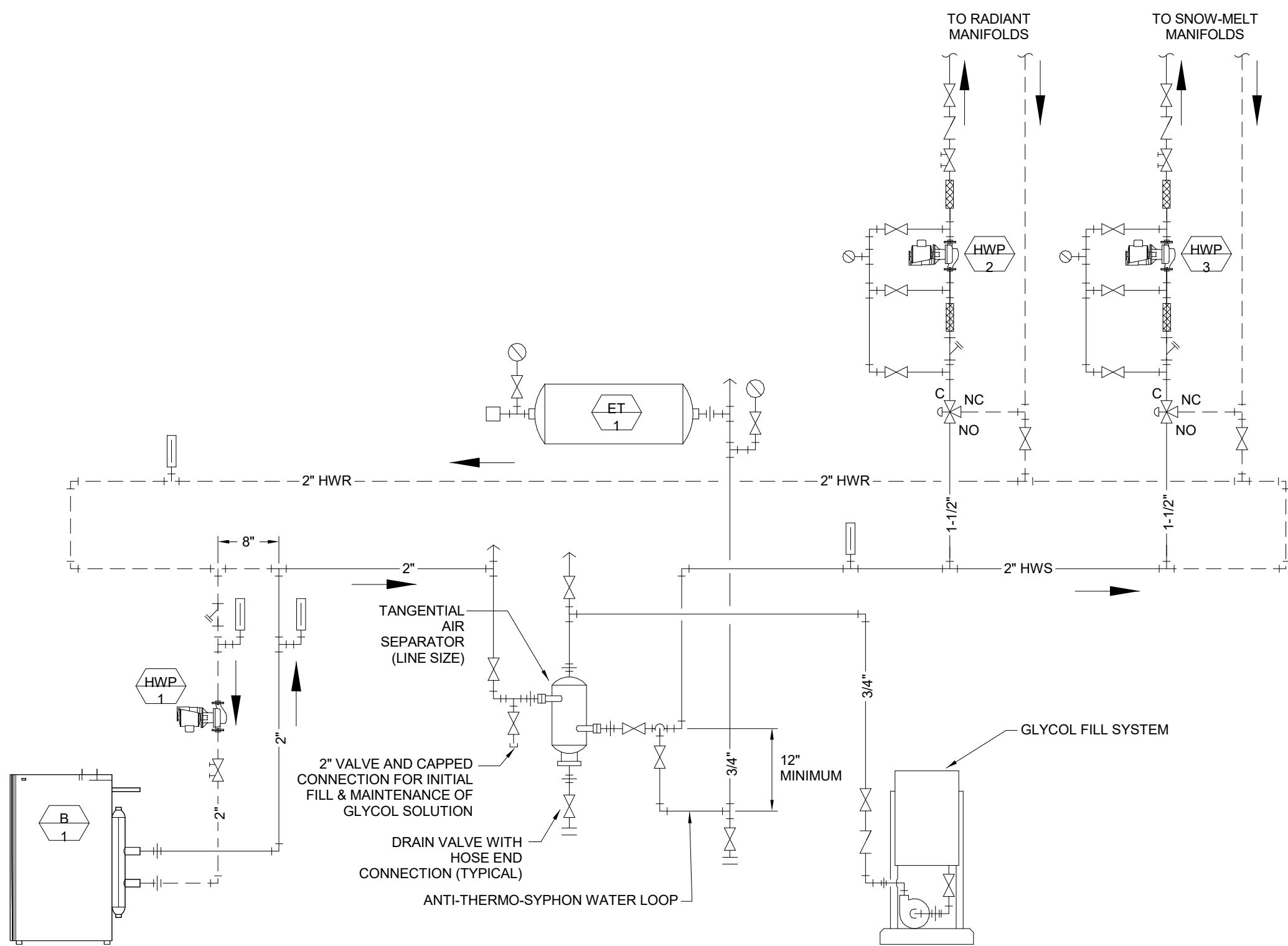
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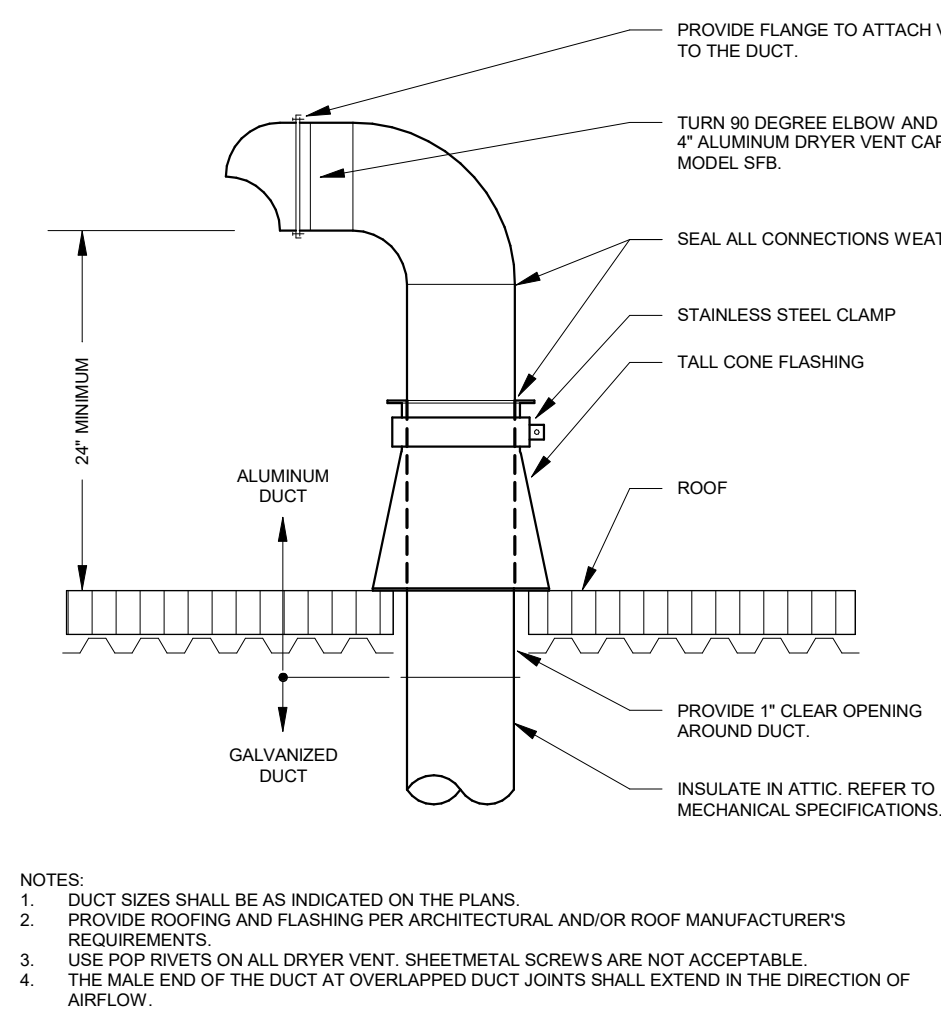
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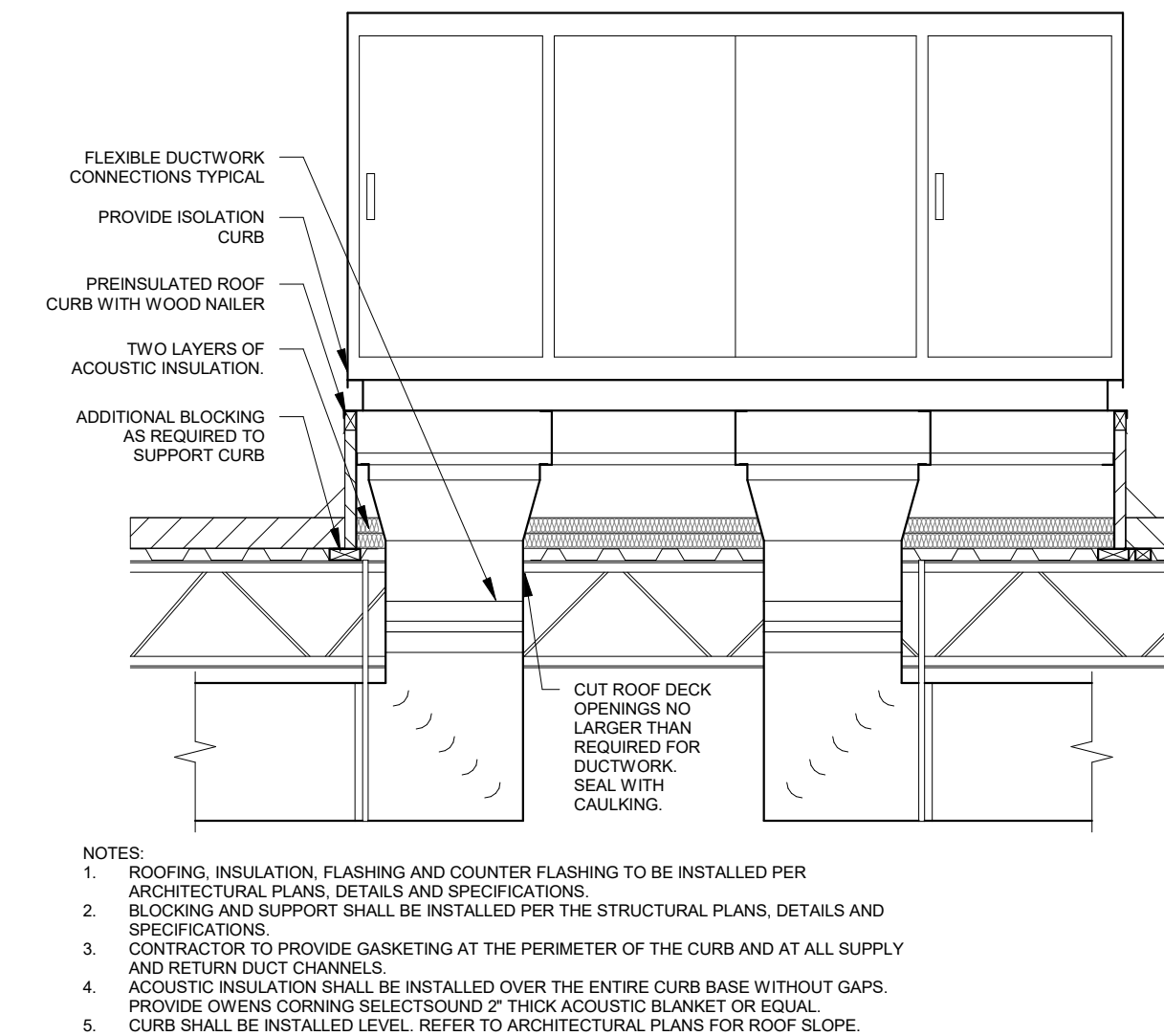
A2 Radiant Piping Schematic
NOT TO SCALE



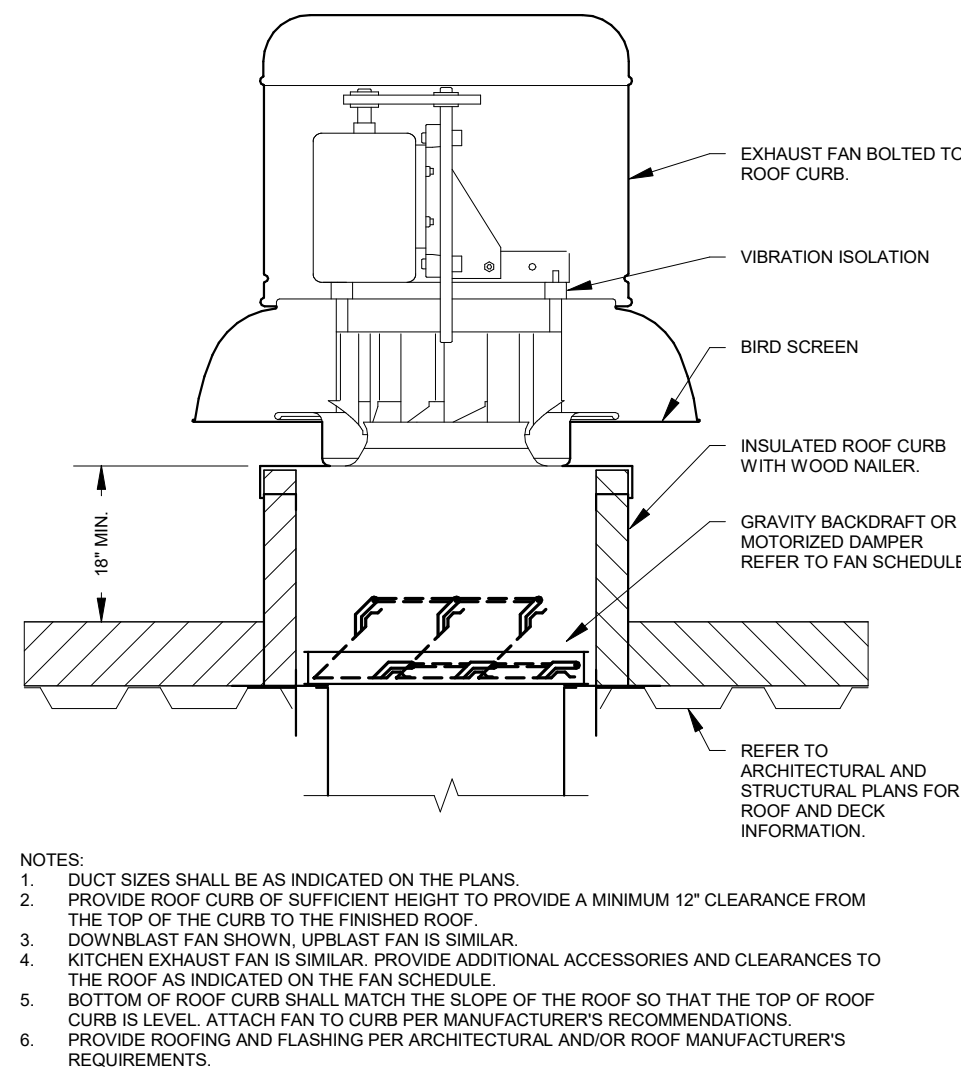
A5 VENT ROOF CLOTHES DRYER
NOT TO SCALE



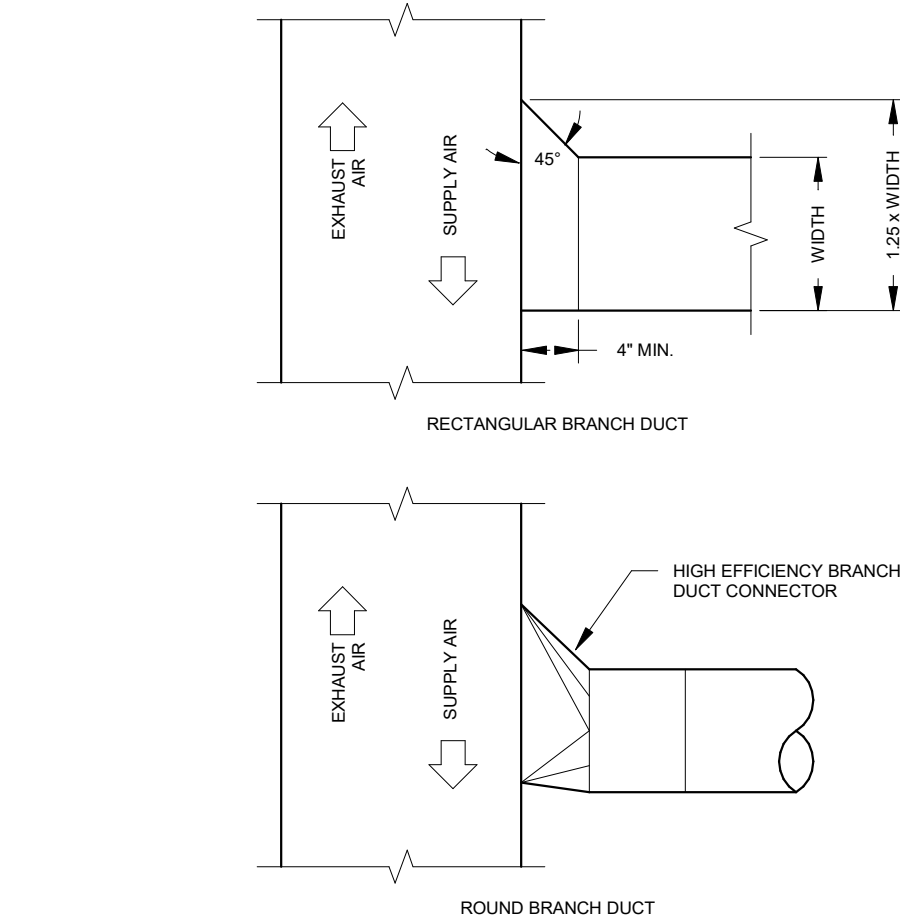
B5 ROOF CURB RTU
NOT TO SCALE



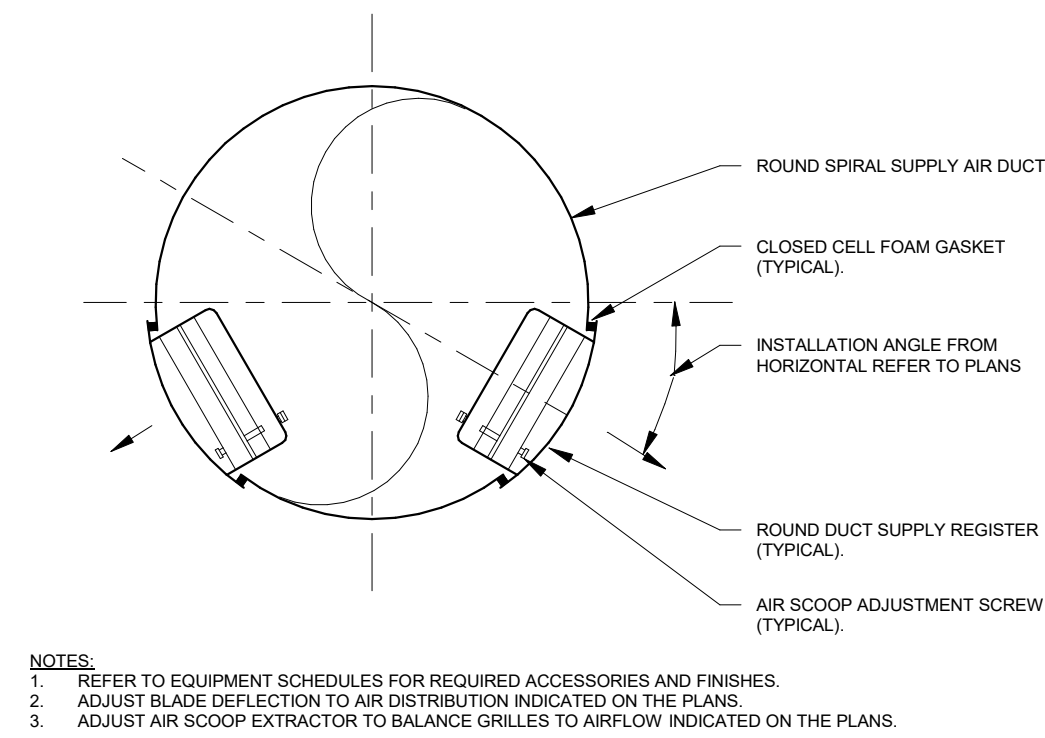
D5 FAN EXHAUST ROOF
NOT TO SCALE



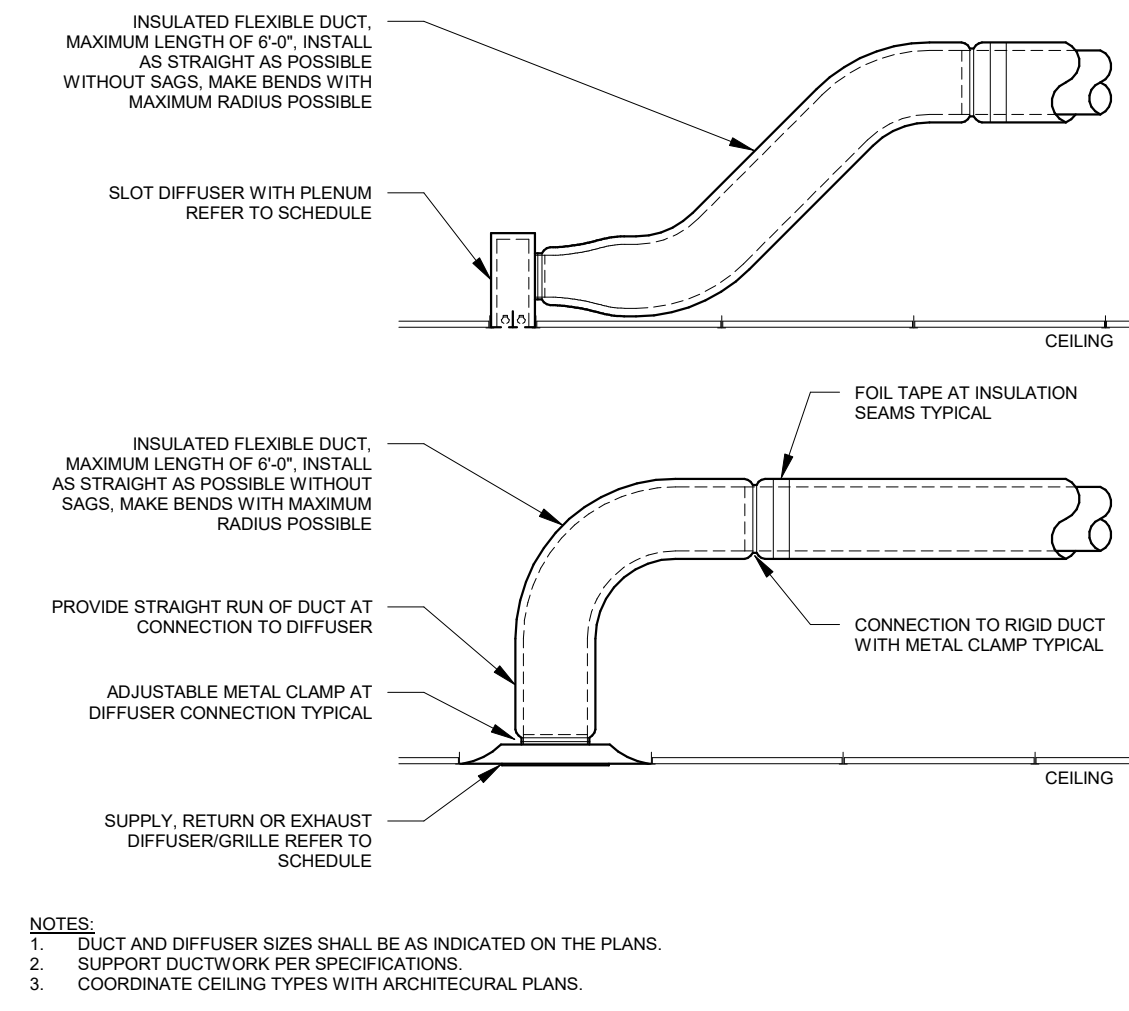
A7 DUCT BRANCH CONNECTION
NOT TO SCALE



B7 DIFFUSER SUPPLY SPIRAL GRILLE
NOT TO SCALE



D7 DIFFUSER CONNECTION
NOT TO SCALE



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**MECHANICAL
DETAILS**

M301

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ROOFTOP UNIT SCHEDULE

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

NOTES:

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

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

3. PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED VFD.

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

5. PROVIDE BURNER WITH MODULATING GAS HEAT.

6. PROVIDE UNIT WITH BAROMETRIC RELIEF DAMPER.

GENERAL NOTES (APPLY TO ALL ABOVE):

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

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

C. FUEL SOURCE FOR GAS HEATER IS NATURAL GAS.

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

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

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

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

FAN SCHEDULE

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

PUMP SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	GPM	HEAD	BHP	HP	VOLTS	PHASE	NOTES
HWP 1	TACO	VR15L	37	15	0.36	0.40	120	1	1
HWP 2	TACO	0034e	14	15	0.00	0.00	120	1	1
HWP 3	TACO	0034e	23	19	0.00	0.00	120	1	1
NOTES: 1. PUMP SHALL HAVE INTEGRAL VFD/ECM MOTOR AND SMART CONTROL. PUMPS SHALL BE SET FOR CONSTANT VOLUME OPERATION									
GENERAL NOTES (APPLY TO ALL ABOVE): A. FLUID IS 30% PROPYLENE GLYCOL. B. ALL PUMPS SHALL BE NON-OVERLOADING.									

HOOD & LOUVER SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	SERVICE	SIZE		AIRFLOW CFM	MIN. FREE AREA (S.F.)	MAX. PD INCHES WC	NOTES
				W	H				
IH 1	GREENHECK	GRS1-8	INTAKE	10 1/2"	10 1/2"	250	0.35	0.08	
LV 1	RUSKIN	ELC-6375DAX	INTAKE	24"	48"	2700	4.09	0.15	1
NOTES: 1. PROVIDE COMBINATION LOUVER/DAMPER. DAMPER SHALL BE CONTROLLED WITH EF-1 FAN OPERATION.									
GENERAL NOTES (APPLY TO ALL ABOVE): A. PROVIDE MOUNTING FRAME TO MATCH CONSTRUCTION. B. COLOR TO BE SELECTED BY CONTRACTOR FROM MANUFACTURER'S STANDARD COLORS. C. PROVIDE ALL FASTENERS, HANGERS, AND ASSOCIATED DEVICES REQUIRED FOR COMPLETE INSTALLATION.									

ELECTRIC UNIT HEATER SCHEDULE

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

BOILER SCHEDULE

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

VRF BRANCH SELECTOR BOX SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	ELECTRICAL DATA			
			VOLTS	PHASE	MCA	MOCP (A)
BS 1	TRANE	TCMBM1012JA1	208	1	0.7	15
BS 2	TRANE	TCMBM1012JA11N4	208	1	1.6	15
GENERAL NOTES: A. MANUFACTURER TO SIZE REFRIGERANT PIPING AND CALCULATE REFRIGERANT VOLUME REQUIRED. PROVIDE DIAGRAMS WITH SUBMITTALS. B. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE PUMP. C. PROVIDE 3/4" CONDENSATE LINE UNLESS OTHERWISE NOTED.						



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REVISIONS:		
#	Description	Date



NEIL P. BARTLEY
ENGINEER
MO# PE-2007023868

PROJECT NO: 18225R21001

DATE: 10.20.2022

DRAWN BY: JL

CHK'D BY: NB

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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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DATE: 10.20.2022

DRAWN BY: JL

CHK'D BY: NB

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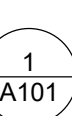



PLUMBING MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS

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

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 w/ WASTE CONNECTION SIZE
























ABBREVIATIONS

- 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

LINETYPE LEGEND

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










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

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

PLUMBING EQUIPMENT

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

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

PLUMBING GENERAL NOTES:

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



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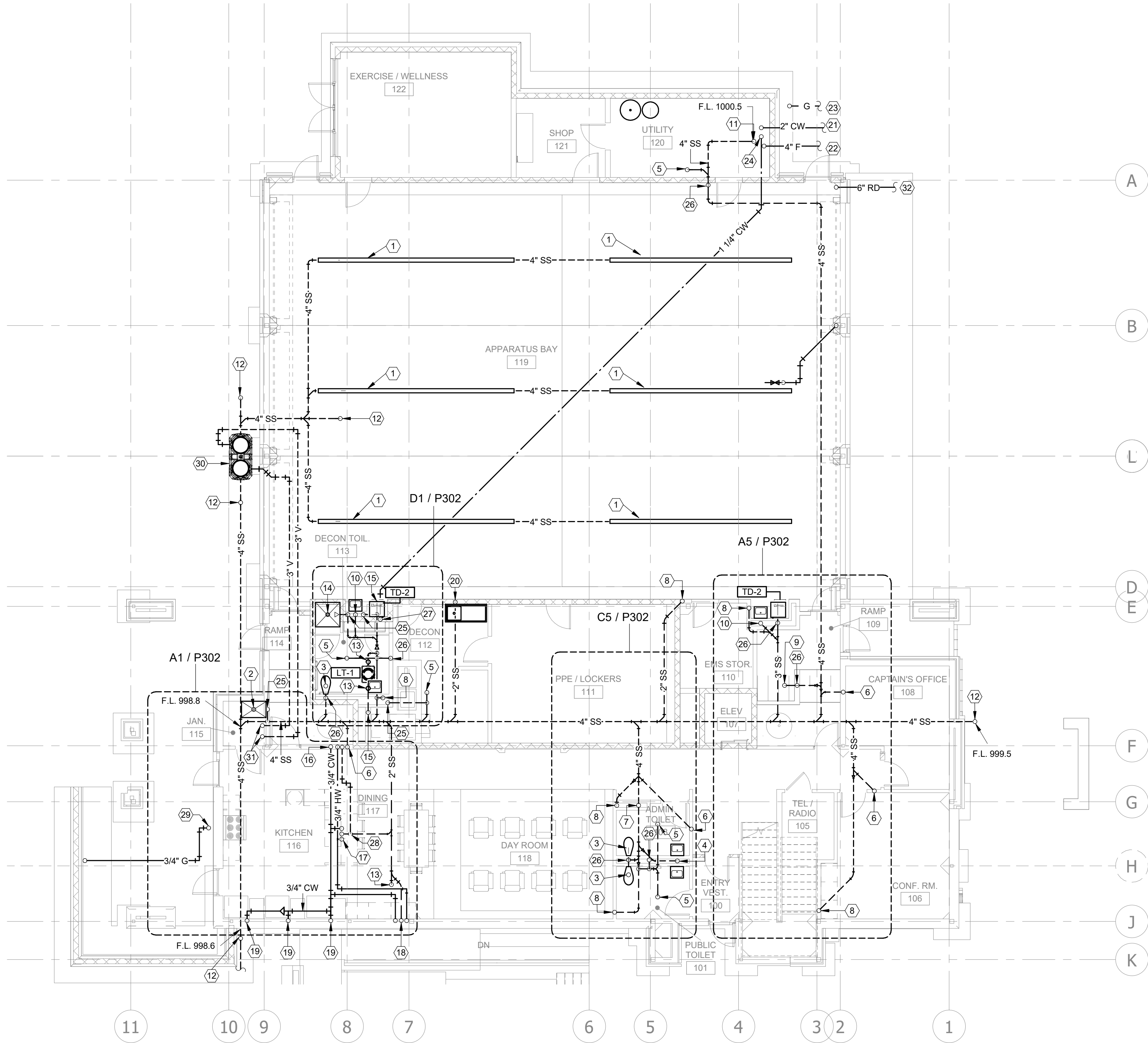
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**PLUMBING
SYMBOLS
LEGEND**

P001

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E
D
C
B
A



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

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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DATE: 10.20.2022
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UNDERGROUND
PLUMBING PLAN

P100

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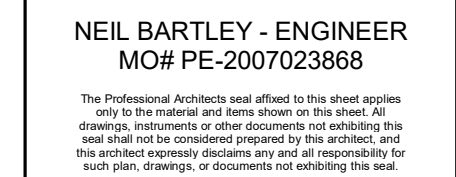


- 1 PROVIDE TWO HB-2, ONE COLD, ONE HOT, FOR THE WATER CONNECTIONS TO THE COMMERCIAL WASHING MACHINE.
- 2 2" NATURAL GAS UP.
- 3 2" VENT UP.
- 4 3/4" NATURAL GAS AND SHUT-OFF VALVE UP TO GRILL.
- 5 3/4" COLD WATER FROM ABOVE, PROVIDE SHUTOFF VALVE.
- 6 1" COLD WATER FROM ABOVE, PROVIDE SHUTOFF VALVE. 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 2" DOUBLE-CHECK BACKFLOW PREVENTER SERVING FIRE PROTECTION TO BE MOUNTED IN VERTICAL POSITION.
- 22 ROUTE DOMESTIC WATER THROUGH WARM SIDE OF INSULATION IN CEILING.
- 23 1-1/4" DOMESTIC COLD WATER DOWN BELOW GRADE WITH SHUT OFF VALVE.
- 24 AIR HOSE REEL, REFER TO SPECS.
- 25 6" STORM DRAIN DOWN BELOW GRADE.
- 26 4" FIRE PROTECTION WATER SERVICE NEW FROM DRAIN. REFER TO BELOW GRADE PLUMBING PLAN, SHEET P-100, FOR CONTINUATION.
- 27 2" DOMESTIC WATER SERVICE UP. SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
- 28 4" FIRE SERVICE UP. SEE FIRST FLOOR PLUMBING PLAN P101, FOR CONTINUATION.
- 29 NEW GAS SERVICE AND METER.
- 30 1/2" COMPRESSED AIR DOWN TO HOSE REEL.
- 31 3/4" COMPRESSED AIR UP.



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P101

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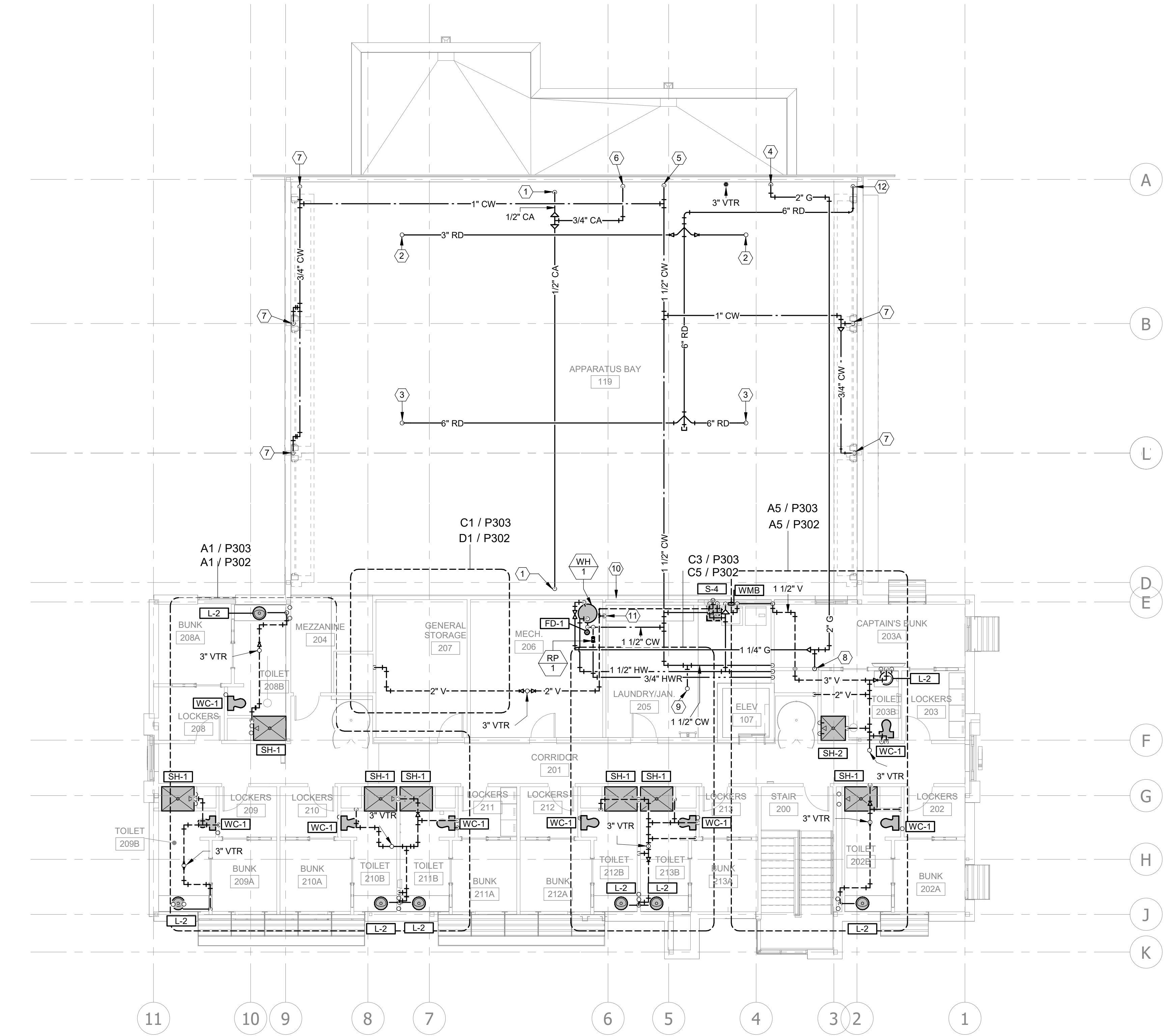
E

D

C

B

A



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

PLUMBING PLAN NOTES:

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

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**SECOND FLOOR
PLUMBING PLAN**

P102

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SPECIFICATIONS

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

NOTES

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

DIFFUSION FLOW TECHNOLOGY

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

ENGINEER SPECIFICATION GUIDE

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

THIRD PARTY STRUCTURAL ANALYSIS

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

OPTIONS

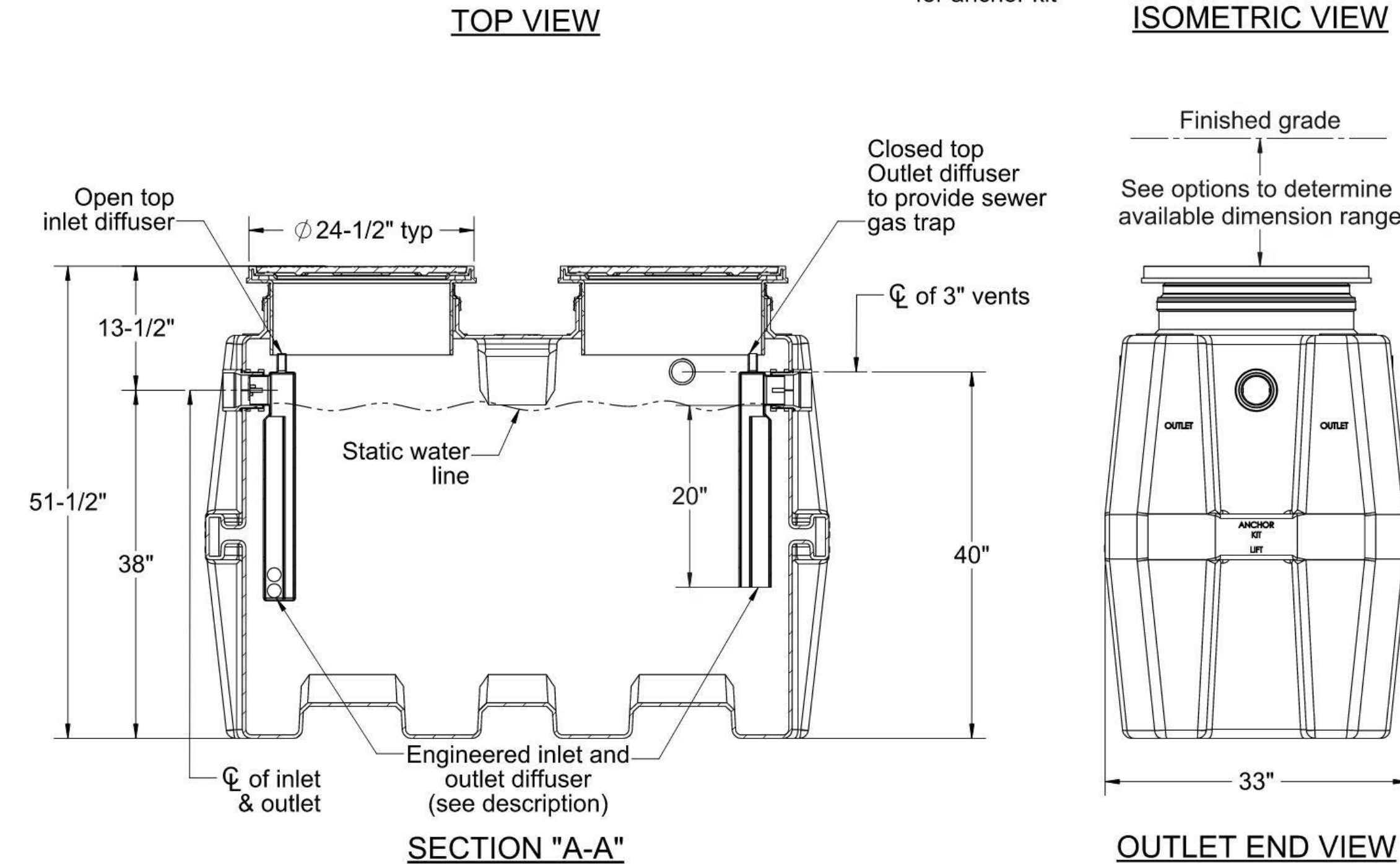
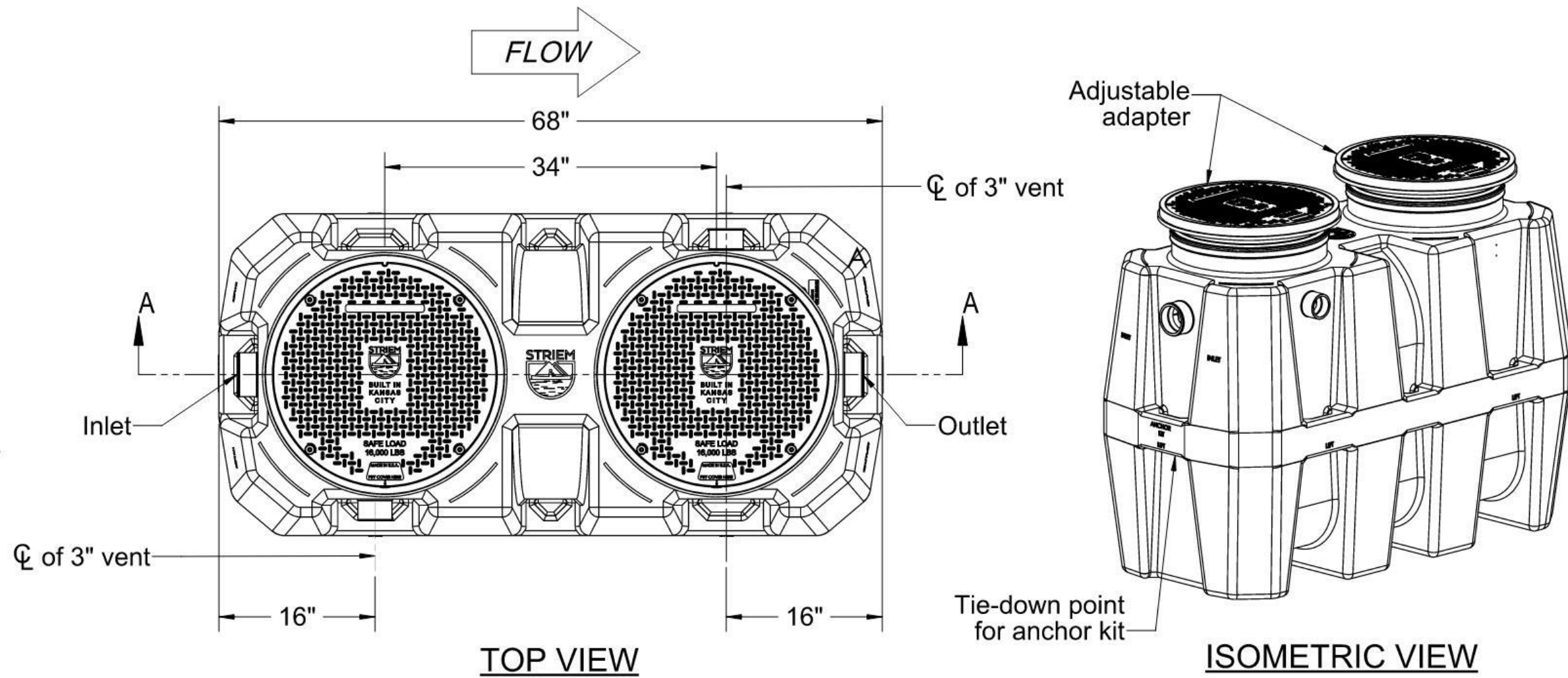
- ☐ 4M - 4" Male Thread Inlet / Outlet
- ☐ 6P - 6" Plain End SCH.40 Inlet / Outlet
- ☐ 6M - 6" Male Thread Inlet / Outlet
- ☐ C24-HP (2) - H20 Rated Pickable Cast Iron Cover
- ☐ CC24 (2) - Integral Membrane Clamping Collar Kit
- ☐ CS3 - Clean Sweep Coalescing Media (single)*
- ☐ CS6 - Clean Sweep Coalescing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

*Clean Sweep Coalescing Media not compatible with CPRK

RISER OPTIONS

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

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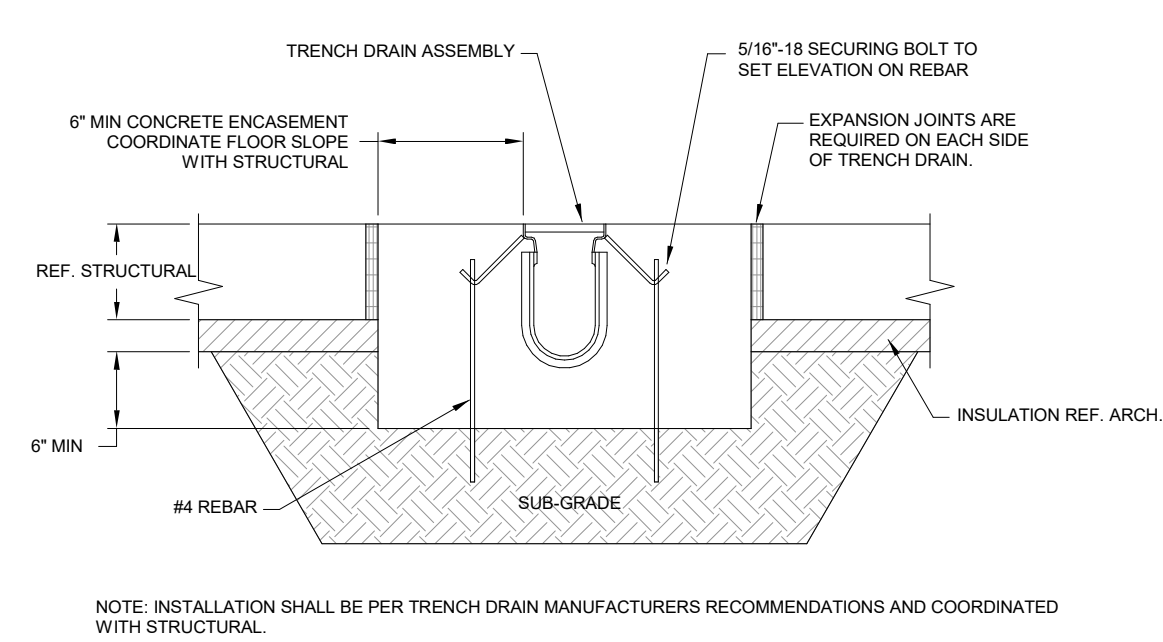


MODEL NUMBER:	OS-100
DESCRIPTION:	100 GPM POLYETHYLENE OIL/SAND SEPARATOR
DWG BY:	MJ
DATE:	12/09/2020
REV:	0
ECO:	

SPECIFICATION SHEET

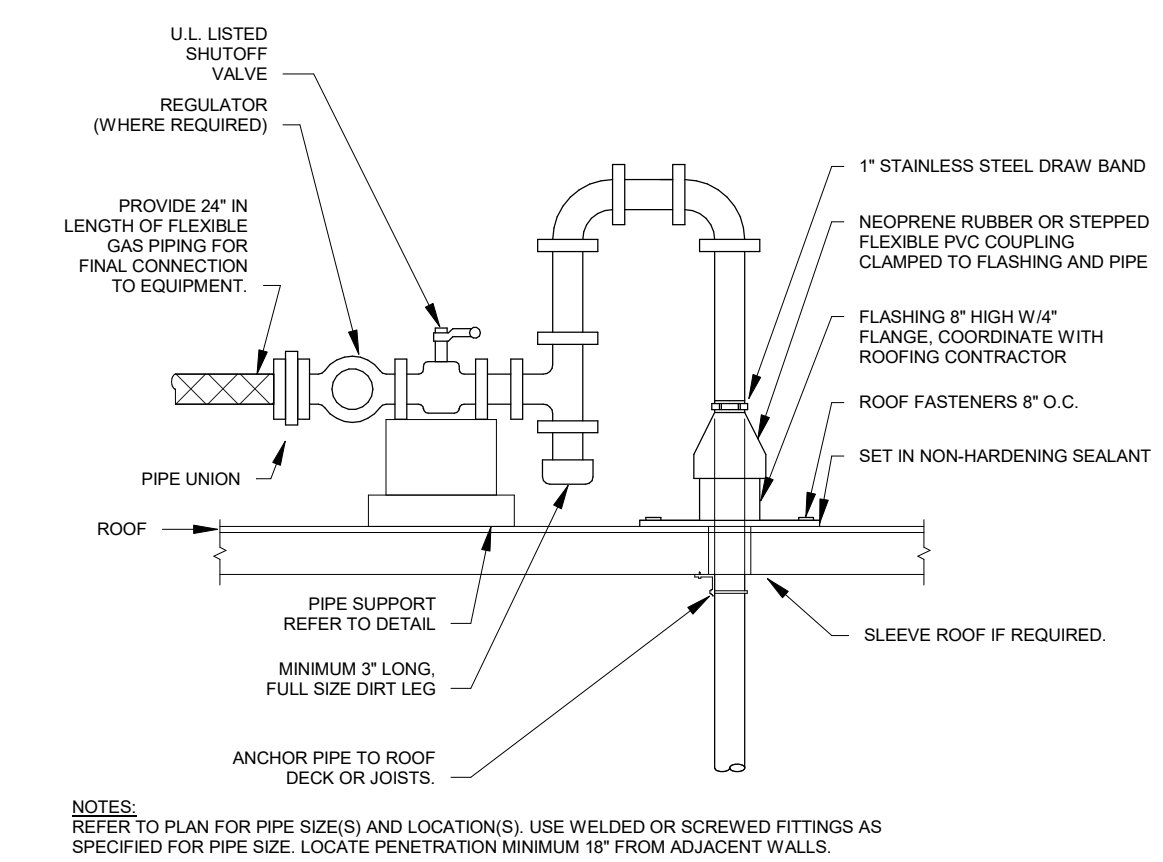
Striem
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Kansas City, KS 66115
Tel: 913-222-1500
orders@striemco.com
www.striemco.com

Made in the U.S.A



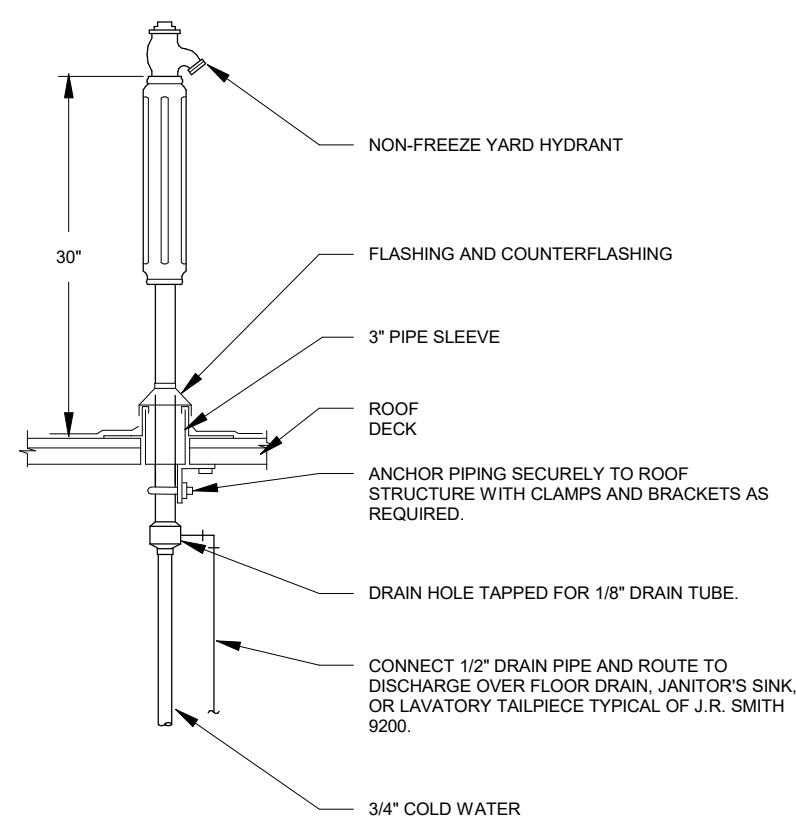
D7 TRENCH DRAIN DETAIL

NOT TO SCALE



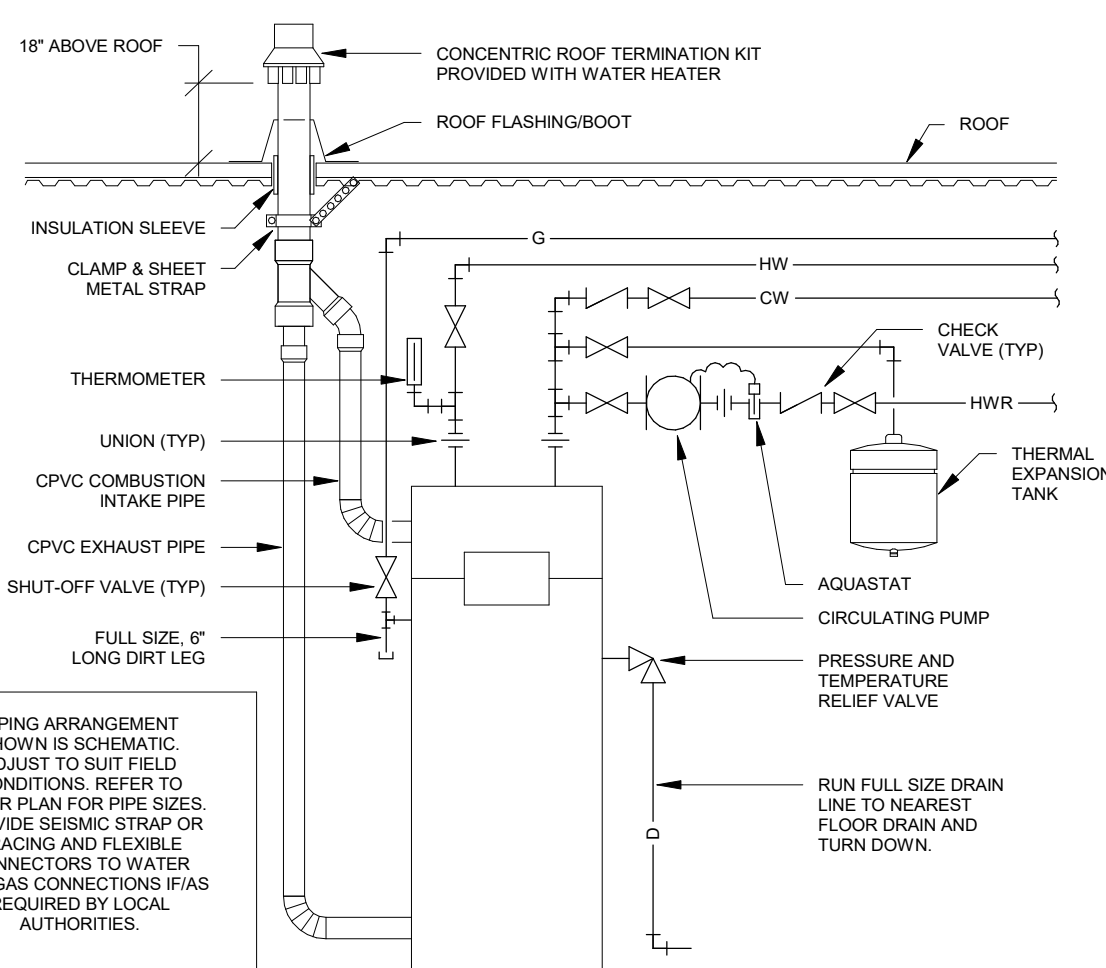
C7 GAS PIPE THRU ROOF

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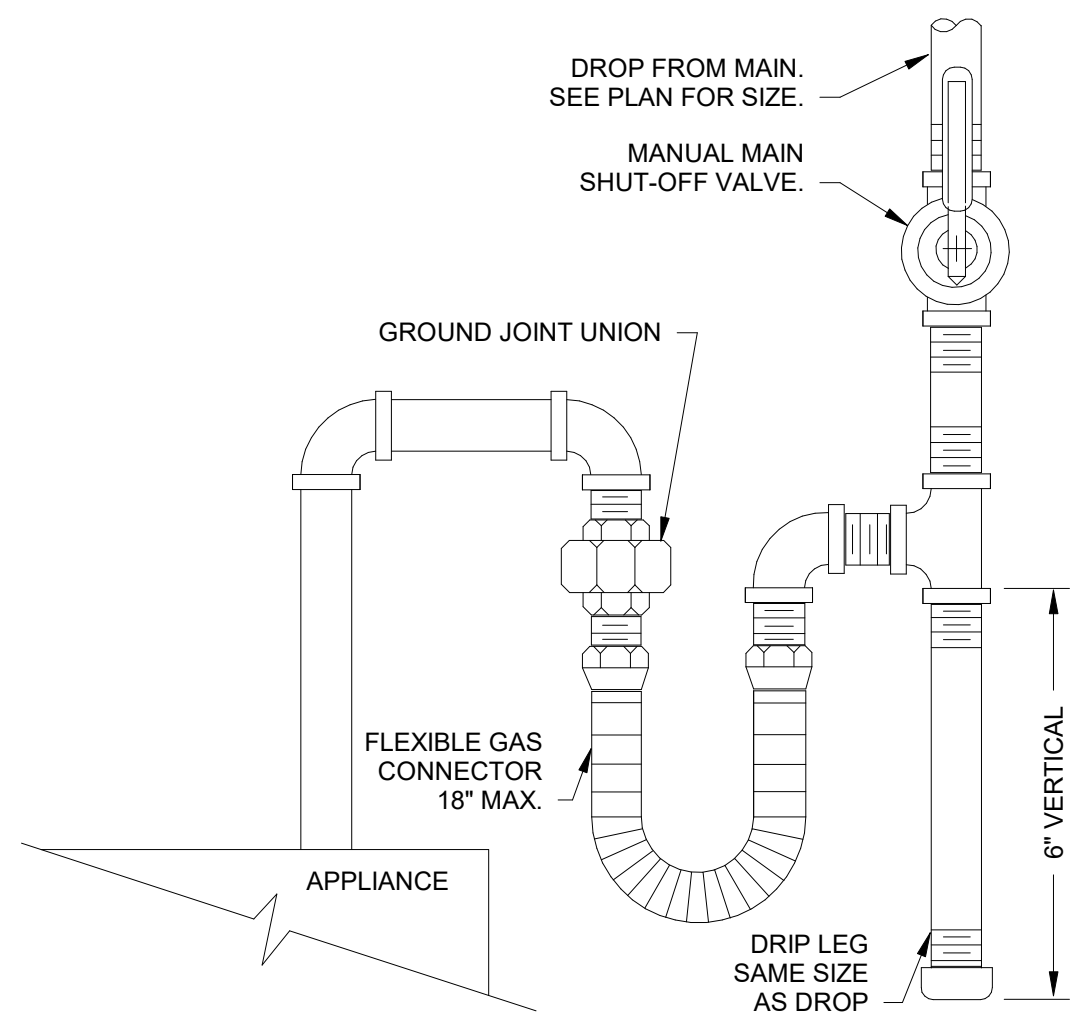
B7 ROOF HYDRANT

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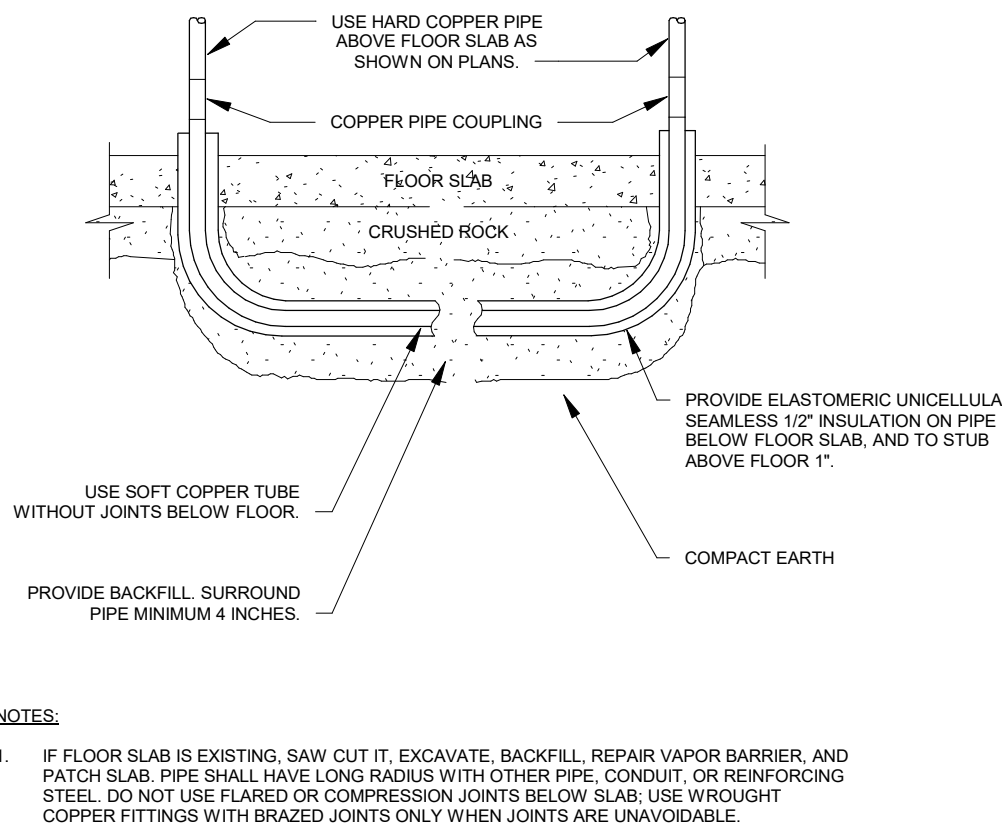
GAS WATER HEATER AND HIGH EFF VENT ROOF

NOT TO SCALE



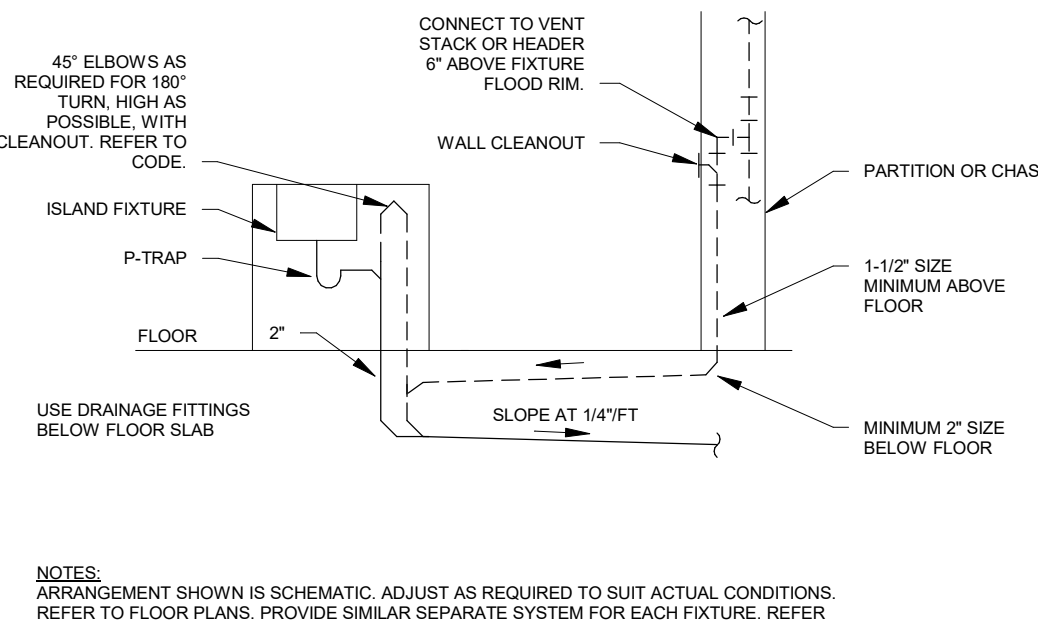
A1 GAS APPLIANCE CONNECTION DETAIL

NOT TO SCALE



A3 UNDER SLAB WATER PIPE

NOT TO SCALE



A5 ISLAND FIXTURE VENT

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NEIL BARTLEY - ENGINEER
MO# PE-2007023868

PROJECT NO: 18225R21001

DATE: 10.20.2022

DRAWN BY: JL

CHK'D BY: NB

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PLUMBING DETAILS

P301

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PLUMBING PLAN NOTES:

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



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DATE: 10.20.2022

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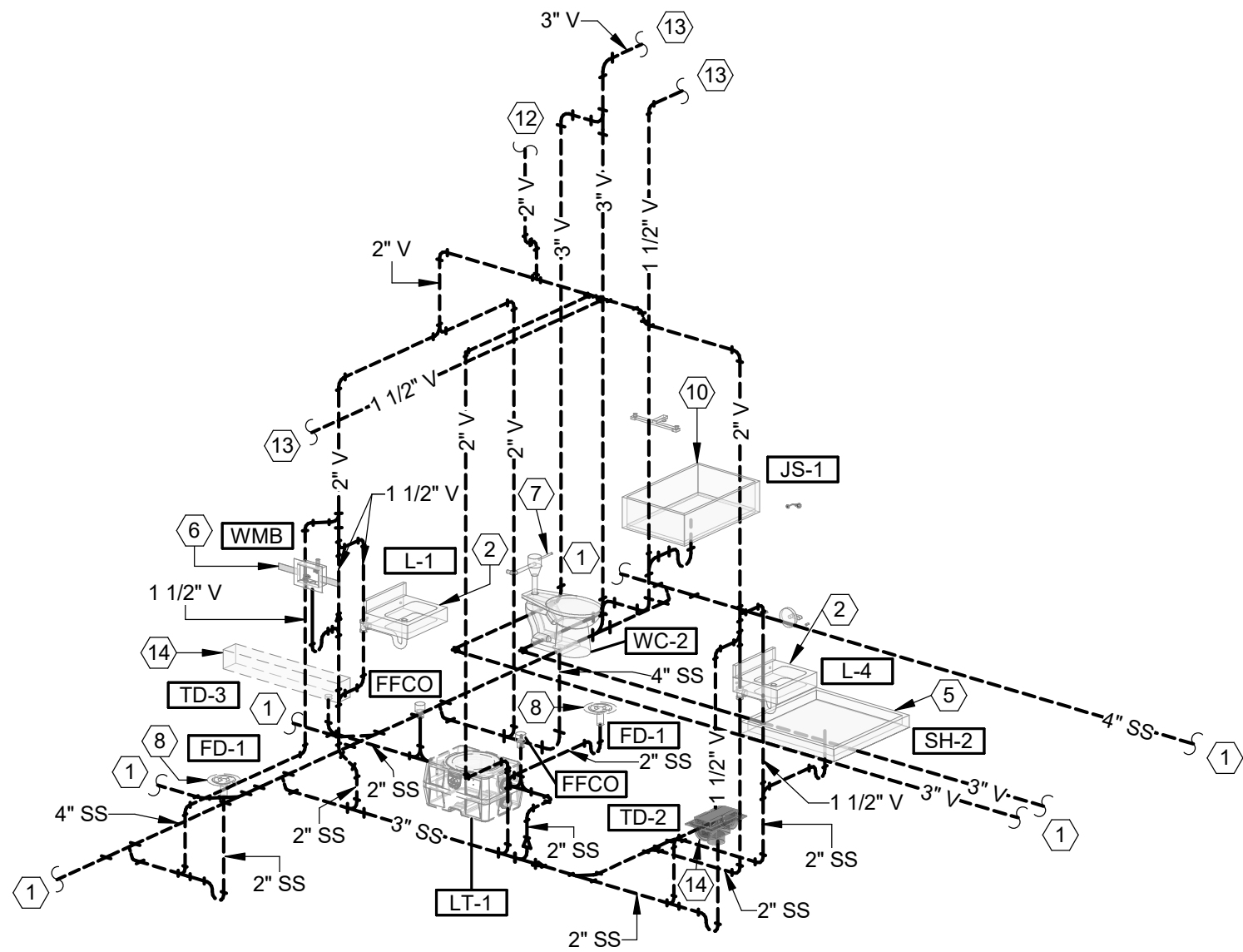
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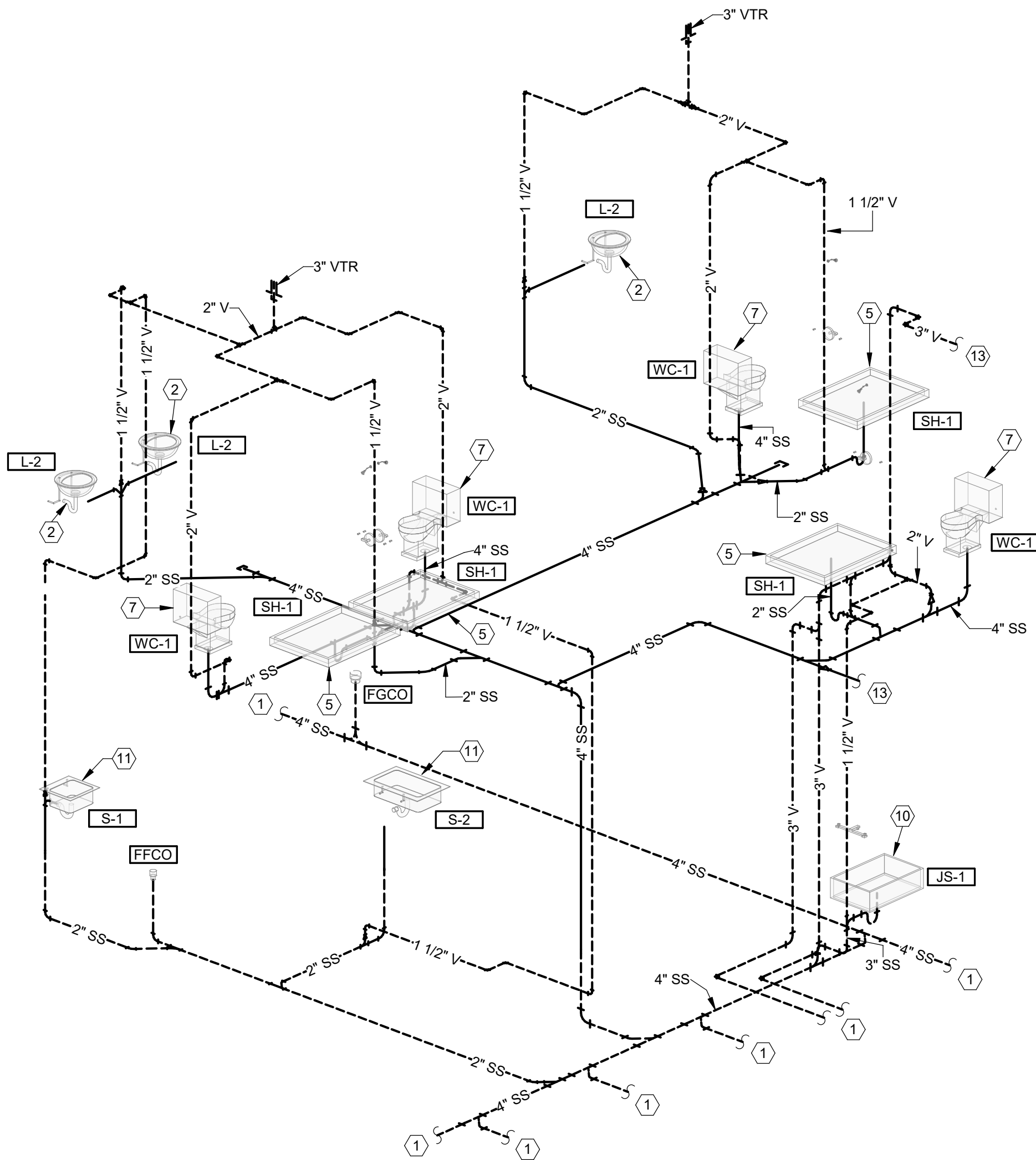
WASTE AND
VENT RISERS

P302

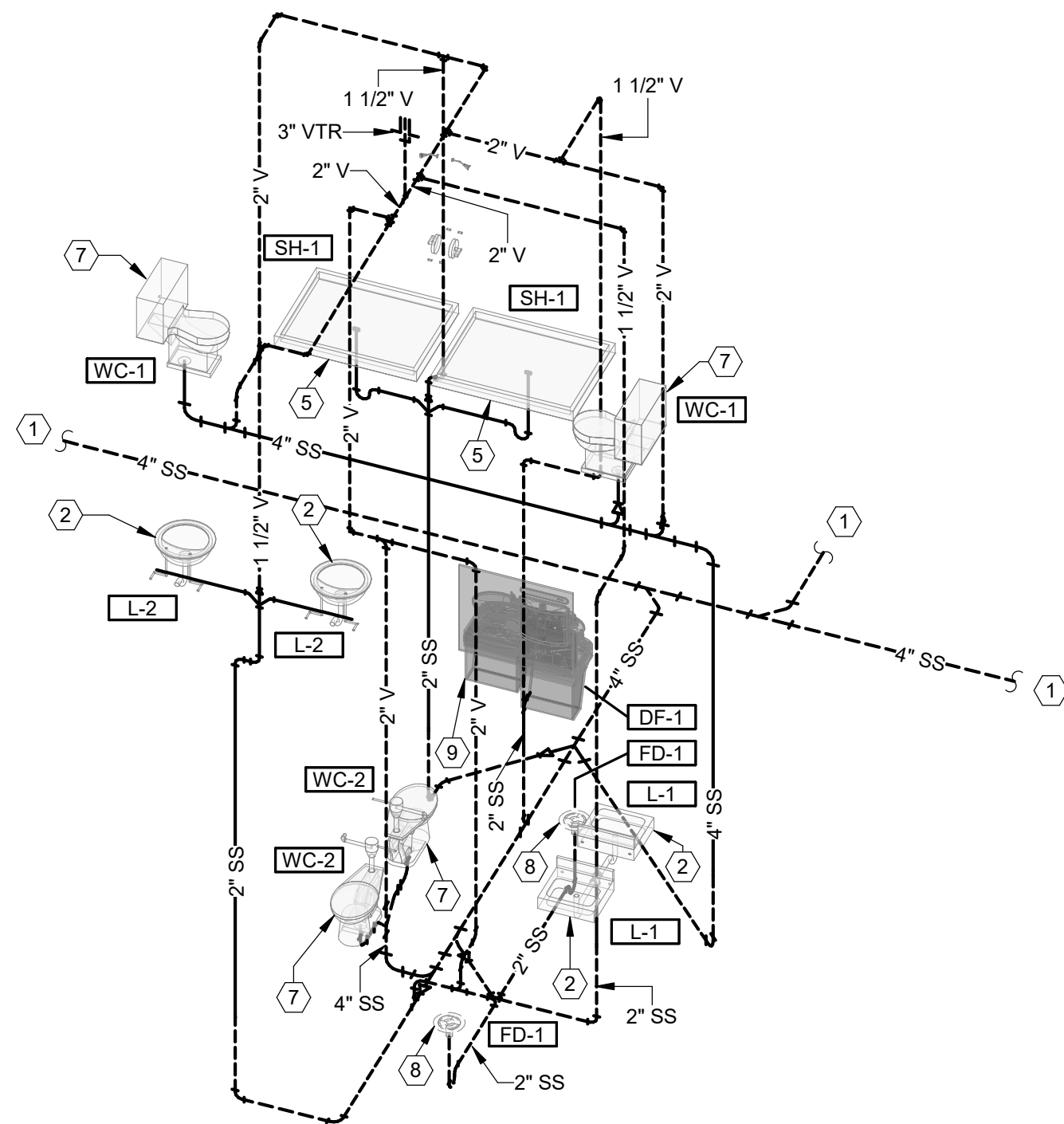
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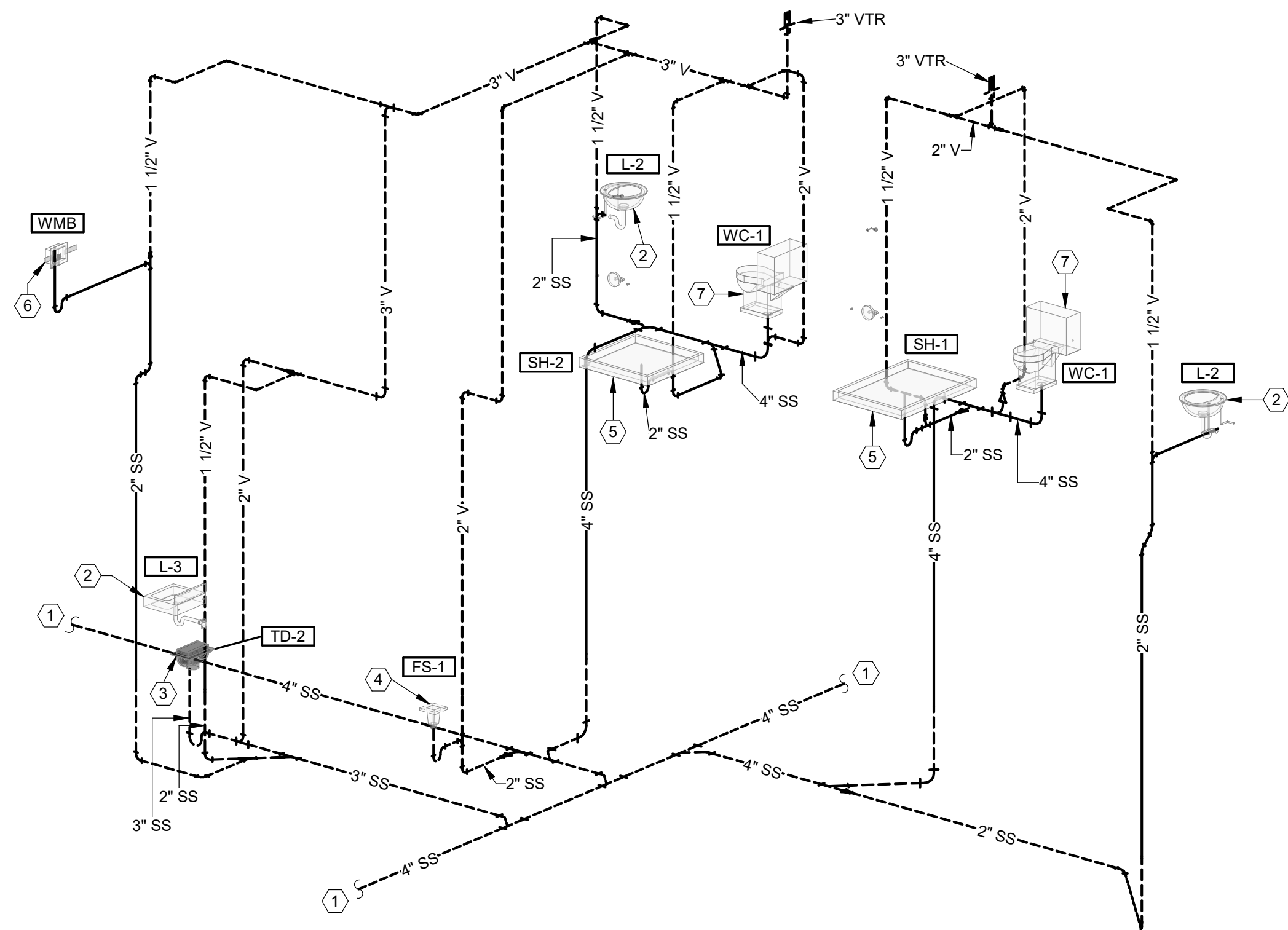
D1 WASTE AND VENT RISER 4
NOT TO SCALE



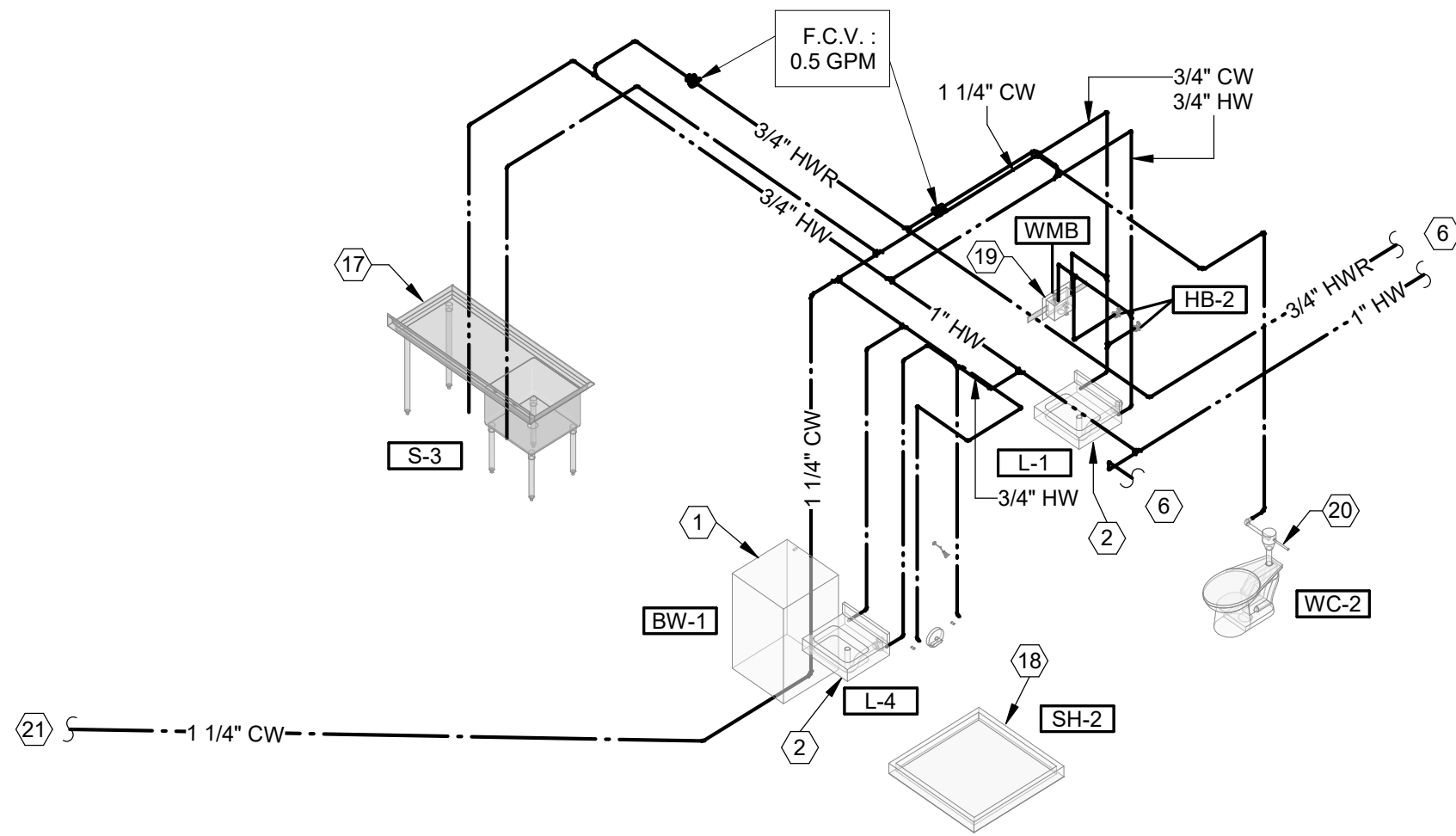
A1 WASTE AND VENT RISER 3
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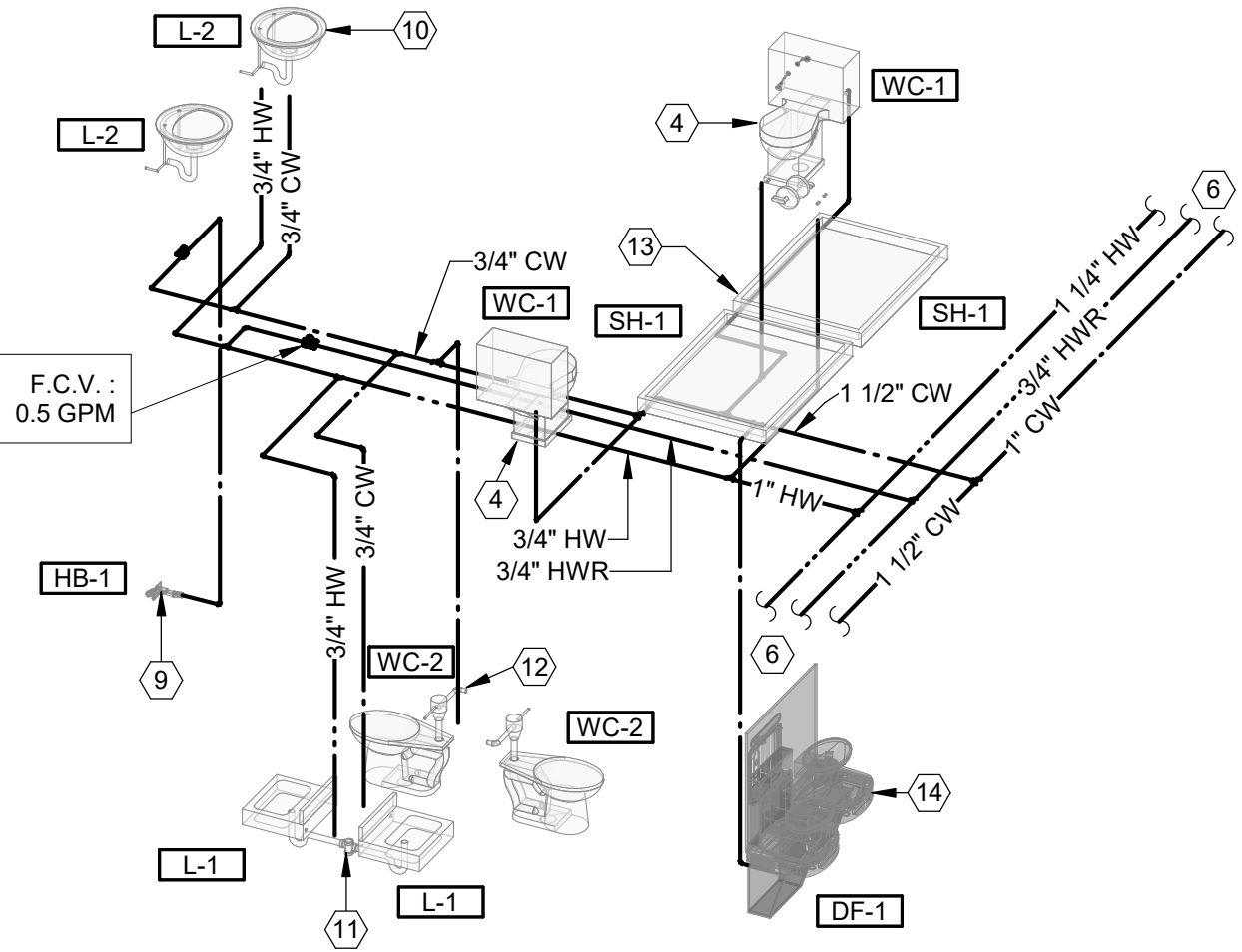
C5 WASTE AND VENT RISER 2
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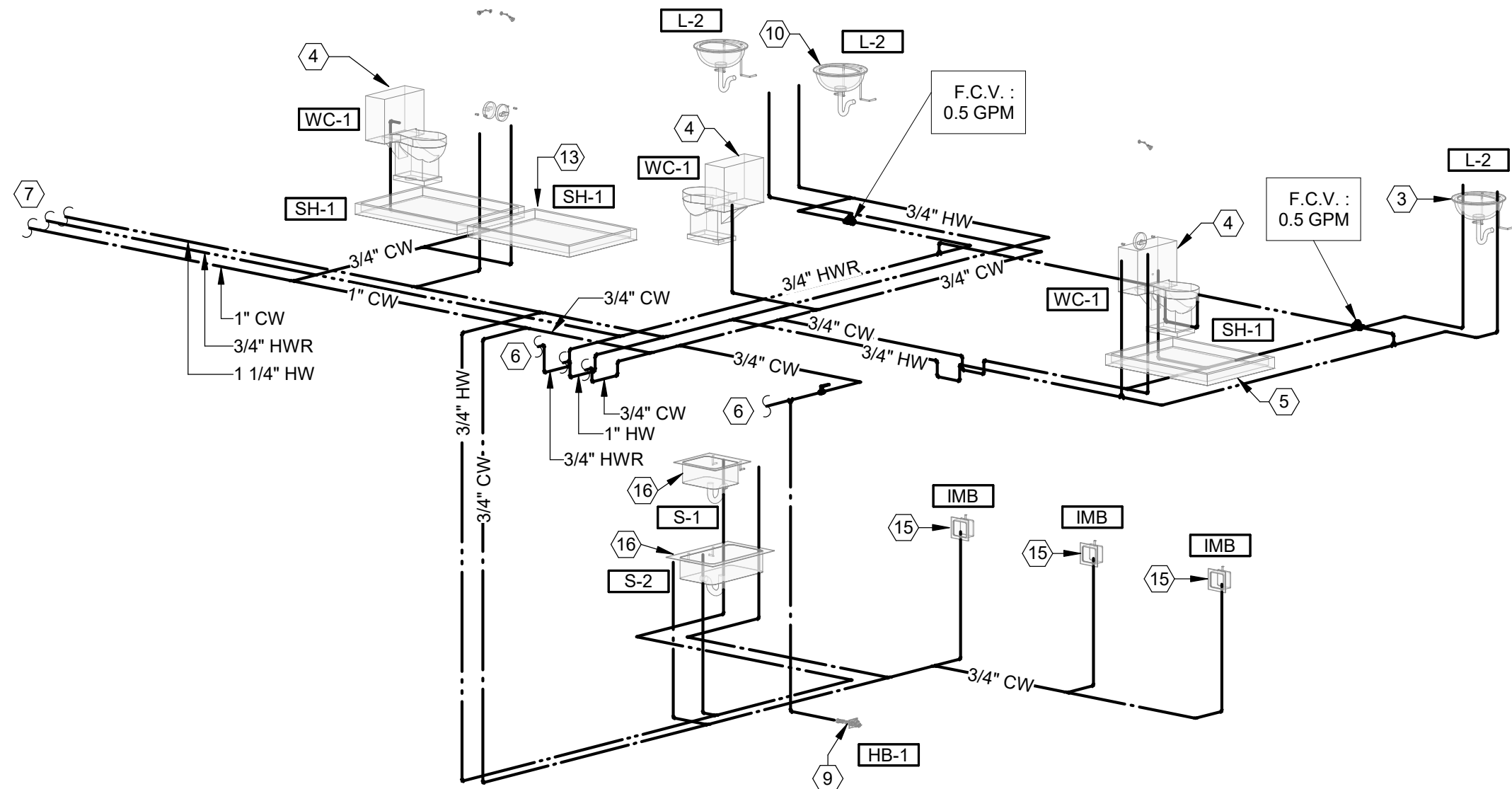
A5 WASTE AND VENT RISER 1
NOT TO SCALE



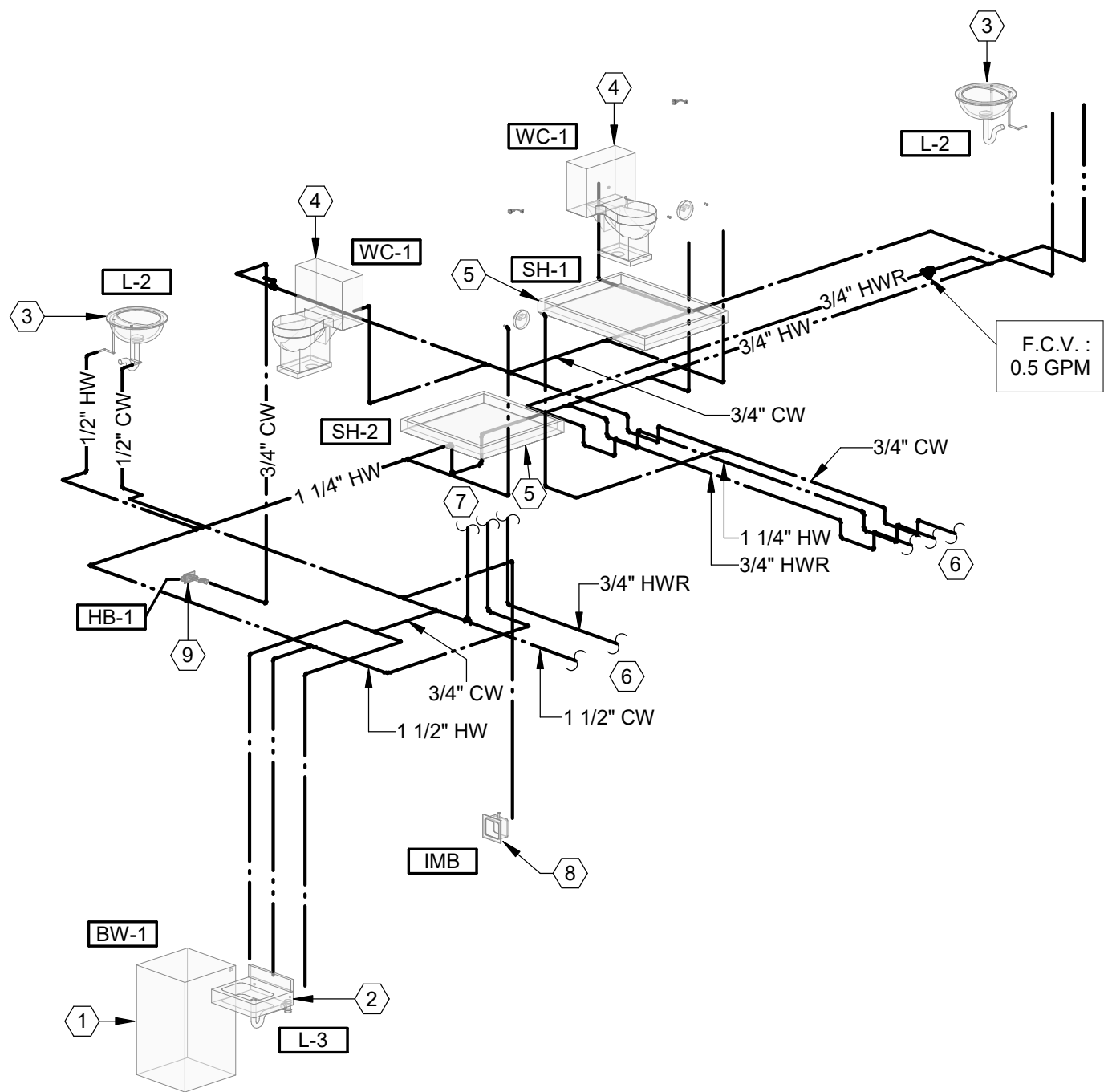
C1 DOMESTIC WATER RISER 4
NOT TO SCALE



C3 DOMESTIC WATER RISER 2
NOT TO SCALE



A1 DOMESTIC WATER RISER 3
NOT TO SCALE



A5 DOMESTIC WATER RISER 1
NOT TO SCALE

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



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PROJECT NO: 18225R21001
DATE: 10.20.2022
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DOMESTIC WATER RISERS

P303

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PLUMBING FIXTURE SCHEDULE (CONTINUED)

MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTIONS				NOTES
					CW	HW	W	V	
WMB	WASHING MACHINE CONNECTION BOX	GUY GRAY	B200	GALVANIZED STEEL BOX	1/2"	1/2"	2"	1-1/2"	
IMB	ICE MAKER CONNECTION BOX	GUY GRAY	BIM875	GALVANIZED STEEL BOX	1/2"	--	--	--	
MV-1	POINT-OF-USE THERMOSTATIC MIXING VALVE	SYMMONS	270-LF	0.25 GPM MIN. FLOW ASSE 1017 CERTIFIED LOW FLOW	SEE...		--	--	15
EW-1	FAUCET WITH INTEGRAL EMERGENCY EYE WASH	BRADLEY	S19-505M	FAUCET WITH SWING ACTIVATED EYE-WASH PROVIDE S19-2000 TMV	1/2"	1/2"	--	--	
ET-1	EXPANSION TANK	AMTROL TACO	THERM-X-TROL ST-12 PAX	DOMESTIC WATER SERVICE	--	3/4"	--	--	
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 WADE SMITH	MODEL 65 8600 5609QT	VACUUM BREAKER LOOSE CONTROL KEY WALL CLAMP	1/2"	--	--	--	10
HB-2	ROUGH BRASS HOSE BIBB	WOODFORD CHICAGO	MODEL 24 998	VACUUM BREAKER DRAIN PLUG	1/2"	--	--	--	
RD-1	CAST IRON ROOF DRAIN WITH CAST IRON DOME	WADE ZURN SMITH	W-3000 ZC-100 1010-CID	ROOF DRAIN WITH FLANGE, FLASHING RING, GRAVEL STOP AND CAST IRON DOME	--	--	--	--	
RH-1	FREEZELESS ROOF HYDRANT NO DRAIN	WOODFORD FREEZE FLOW	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 LONGITIDNAL SEAMS AND END JOINTS COMPLIES WITH ASTM D 1784 AND CLASS 16354-C					
TYPE 3	ALUMINUM JACKETS, 0.016" THICK, EMBOSSED FINISH, LONGITUDINAL SLIP JOINTS AND 2" LAPS COMPLIES WITH ASTM B 209					
TYPE 4	ISULATED PIPE SUPPORTS, 360° PRE-MOLDED PIPE SUPPORTS. VAPOR BARRIER AND GALVANIZED STEEL SHIELD. FOR > 1 1/2" PIPES MINIMUM COMPRESSIVE STRENGTH: 100 PSIG FOR PIPE SIZE <6", 450 PSIG FOR PIPE SIZE 6" AND LARGER					
TYPE 5	LAVATORY PIPING COVERS - HANDICAPPED LAVATORY P-TRAPS AND HOT/ COLD WATER LINES SHALL BE INSULATED WITH TRUEBRO LAV GUARD 2, FULLY MOLDED VINYL INSULATION SYSTEM. VINYL THICKNESS = 0.125", ADA COMPLIANT, MEETING ASTM D-635, ASTM G21, ASTM G22, COLOR SHALL BE CHINA WHITE AND PAINTABLE WITH LATEX PAINT.					
INSULATED PIPE SUPPORTS						
PIPE SIZE	INSERT LENGTH					
1 1/2" TO 5"	6"					
6" TO 8"	9"					
INSULATION THICKNESS FOR PIPES LOCATED WITHIN THE BUILDING THERMAL ENVELOPE						
PIPING SYSTEM	CONTINUOUS VAPOR BARRIER	PIPE SIZE			INSULATION	NOTES
		<= 1 1/2"	2" - 4"	5" - 6"	>= 8"	
CW	YES	1"	1"	1"	1"	TYPE 1 ...
HW	NO	1"	1"	1"	1"	TYPE 1 ...
HWC	NO	1"	1"	1"	1"	TYPE 1 ...
ROOF DRAIN	YES	1"	1"	1"	1"	TYPE 1 ...
NOTES:						
1. ALL FITTINGS, VALVES, TEES, FLANGES, CONNECTIONS, ETC. SHALL BE INSULATED AND COVERED WITH THE APPROPRIATE PVC INSULATED FITTING COVERS. FITTING COVERS SHALL MATCH PVC JACKETS. (FOR FIBER GLASS INSULATION)						
2. SEAL LONGITUDINAL SEAMS, ENG JOINTS AND PROTRUSIONS WITH VAPOR-BARRIER MASTIC AND JOINT SEALANT.						
3. PIPE INSERT THICKNESS SHALL BE EQUAL TO THE ADJOINING INSULATION THICKNESS.						
GENERAL NOTES: (APPLY ALL TO ABOVE)						
A. THE BASIS FOR FIBER GLASS PIPE INSULATION AND FITTING COVERS IS JOHNS-MANVILLE WHICH SHALL REPRESENT THE MINIMUM LEVEL OF CONSTRUCTION. PRODUCTS MANUFACTURED BY OWENS-CORNING AND KNAUF SHALL BE PERMITTED TO BID.						
B. INSTALL ALL PIPE INSULATION PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.						
C. INSTALL INSULATION CONTINUOUSLY THROUGH PENETRATIONS						
D. PROVIDE LAVATORY PIPING COVERS AT ALL ADA ACCESSIBLE SINKS AND LAVATORIES						

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 KOHLER TOTO	CADET III 3717C.001 K-5310-0 CST454CEFG	CHURCH 9500C OPEN FRONT SEAT TOTO SC534 OPEN FRONT SEAT	1/2"	--	4"	2"	1, 4, 7
WC-2	ADA FLOOR MOUNTED FLUSH VALVE WATER CLOSET	AMERICAN STANDARD KOHLER TOTO	MADERA 3043.001 K-96057-0 CT705ELN	FLUSH VALVE: FV-1 CHURCH 9500C OPEN FRONT SEAT TOTO SC534 OPEN FRONT SEAT	1-1/4"	--	4"	2"	4, 9
FV-1	BATTERY POWERED SENSOR WATER CLOSET FLUSH VALVE	SLOAN ZURN TOTO	G2 811-1.6 ZER6000AV-TM-WS1 TET1GA	1.6 GALLONS PER FLUSH	--	--	--	--	
L-1	WALL HUNG LAVATORY	AMERICAN STANDARD KOHLER TOTO	LUCERNE 0355.012 KINGSTON K-2005 LT307	FAUCET: F-7 20X18 BASIN, CONCEALED ARM CARRIER, MIXING VALVE MV-1	--	--	2"	1-1/2"	2
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 KOHLER TOTO	LUCERNE 0355.012 KINGSTON K-2005 LT307	FAUCET: F-3 20X18 BASIN, CONCEALED ARM CARRIER, MIXING VALVE MV-1	--	--	2"	1-1/2"	2
L-4	WALL HUNG LAVATORY	AMERICAN STANDARD KOHLER TOTO	LUCERNE 0355.012 KINGSTON K-2005 LT307	FAUCET: EW-1 20X18 BASIN, CONCEALED ARM CARRIER	--	--	2"	1-1/2"	2
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 33X22X5-1/2" 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 DELTA ZURN	RELIANT 7385007 501/520/523-WFHDF SIERRA Z-7440-VP	2.5 GPM, VANDAL RESISTANT POP-UP DRAIN, 4" CENTERS THERMOSTATIC MIXING VALVE	1/2"	1/2"	--	--	3
F-2	HANDS FREE LAVATORY FAUCET	TOTO	TEL105-D10E	0.5 GPM, SELF-GENERATING BATTERY, THERMOSTATIC MIXING VALVE, GRID STRAINER, COVER PLATE	1/2"	1/2"	--	--	
F-3	ADA SINGLE LEVER KITCHEN FAUCET	AMERICAN STANDARD DELTA MOEN	2021.634 400-WFELHHDF BANBURY 87017	HAND SPRAY CUP STRAINER DRAIN 2.5 GPM, 8" CENTERS	1/2"	1/2"	--	--	3
F-4	ADA TWO-HANDLE WALL-MOUNT SINK FAUCET	DELTA ZURN T&S	28T6443 Z-841H1 B-0290	SWING SPOUT MOUNT ON BACKSPLASH	1/2"	1/2"	--	--	
F-5	JANITOR'S SINK FAUCET	AMERICAN STANDARD FIAT DELTA	8344.112 830-AA 28T9-AC	VACUUM BREAKER, WALL BRACE, PAIL HOOK, 30" HOSE WITH WALL GRIP, MOP HANGER	3/4"	3/4"	--	--	
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	--	--	2"	1-1/2"	8
SH-2	36"x36" SHOWER BASE	AQUATIC	SB3636	3" THRESHOLD, SHOWER VALVE: SV-1 WHITE CERAMIC BASE CENTER DRAIN	--	--	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 ZURN SMITH	1100STD Z-415 2005	NICKEL BRONZE STRAINER DEEP SEAL TRAP	--	--	--	--	
FS-1	8" SQUARE FLOOR SINK	WADE ZURN SMITH	9110 Z-1910 3100	6-1/4" DEEP BODY, ENAMELED INTERIOR, SEDIMENT BUCKET, NICKEL BRONZE RIM AND GRATE	--	--	--	--	
TD-1	TRENCH DRAIN	SMITH	9940-DCG-3	6" WIDE POLYPROPYLENE CHANNEL w/COATED STEEL FRAME RADIOUSD 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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DATE: 10.20.2022

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CHK'D BY: NB

PLUMBING SCHEDULES

P401

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ELECTRICAL MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS	
CONTROLS (TOP OF DEVICE)	48"
RECEPTACLES	18"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (GARAGES)	24"
RECEPTACLES (ABOVE COUNTER)	4" ABOVE BACKSPLASH/COUNTER
RECEPTACLES IN EQUIPMENT ROOMS	44"
DATA OUTLETS	SAME AS ADJACENT DEVICE, UNO
TELEVISION OUTLETS	REFER TO ARCH DRAWINGS
DEFAULT MOUNTING HEIGHTS SHOWN ABOVE TO BE USED UNLESS NOTED OTHERWISE BY ARCHITECT OR IN CONSTRUCTION DOCUMENTS. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.	
INSTALLATION HEIGHT OF ALL FIRE ALARM DEVICES SHALL BE AS REQUIRED BY THE LATEST EDITION OF NFPA 72, COORDINATE WITH EQUIPMENT MANUFACTURER BASED ON ACTUAL PROVIDED EQUIPMENT.	
ANNOTATIONS	
	INDICATES CONNECTION TO EXISTING SYSTEM
	INDICATES DEMO FROM EXISTING SYSTEM
	PLAN NOTE REFERENCE
	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
	SECTION REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
	MECHANICAL EQUIPMENT DESIGNATION
ABBREVIATIONS	
AD AF AFF AFG AHJ AIC AS AT ATS C CKT CT DEMO EC EM FCA FLA GC GEC G MCA MCB MCC MGB MLO MOCP N/A NF NL P PH/Ø PNLBD PROVIDE PT QTY RCPT RLA SCCR SD SF SPD ST SWBD SWGR TBB TGB TMGB UNO UPS VD VFD W	ACCESS DOOR AMPERE FRAME SIZE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE INTERRUPTING CAPACITY AMPERE SWITCH AMPERE TRIP SETTING AUTOMATIC TRANSFER SWITCH CONDUIT CIRCUIT CURRENT TRANSFORMER DEMOLITION ELECTRICAL CONTRACTOR EMERGENCY FAULT CURRENT AMPS AVAILABLE FULL LOAD AMPS GENERAL CONTRACTOR GROUNDING ELECTRODE CONDUCTOR GROUND MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN GROUNDING BUSBAR MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION NOT APPLICABLE NON-FUSED NIGHT LIGHT (24 HR ON) POLE PHASE PANELBOARD FURNISH AND INSTALL POTENTIAL TRANSFORMER QUANTITY RECEPTACLE RUNNING LOAD AMPS SHORT CIRCUIT CURRENT RATING SMOKE DETECTOR SQUARE FEET SURGE PROTECTION DEVICE SHUNT TRIP SWITCHBOARD SWITCHGEAR TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS GROUND BUSBAR TELECOMMUNICATIONS MAIN GROUND BUSBAR UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY VOLTAGE DROP VARIABLE FREQUENCY DRIVE WIRE
LINETYPE LEGEND	
	EXISTING TO REMAIN
	NEW WORK
	DEMOLISH

LIGHTING	
	LIGHT FIXTURE
	CENTER LINE INDICATES ARCHITECTURAL BASKET ORIENTATION, WHERE APPLICABLE
	ARROW INDICATES AIMING DIRECTION
	SUSPENDED LIGHT FIXTURE
	LIGHT FIXTURE CIRCUITED AS NIGHT LIGHT
	EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
	NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
	A = LIGHT FIXTURE TYPE a = LIGHT FIXTURE CONTROL 15 = CIRCUIT
	LIGHTING TRACK WITH LIGHT FIXTURE TYPES AS INDICATED
	EXTERIOR SITE PARKING LOT LIGHT FIXTURE WITH NUMBER OF HEADS INDICATED
	EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED
	EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING / WALL MOUNTED
	CEILING FAN
LIGHTING CONTROL DEVICES	
	SINGLE POLE SWITCH
	SWITCH, LETTER DESIGNATION AS FOLLOWS: 2 = TWO POLE 3 = THREE-WAY 4 = FOUR-WAY D = DIMMER K = KEYED LV = LOW VOLTAGE M = MOMENTARY CONTACT OS = OCCUPANCY SENSOR VA = VACANCY SENSOR WP = WEATHERPROOF MR = MOTOR RATED
	CEILING MOUNT OCCUPANCY/VACANCY SENSOR
	WALL MOUNT OCCUPANCY/VACANCY SENSOR
	EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL DEVICE
	ROOM CONTROLLER - REFER TO SCHEDULE FOR MORE INFORMATION
	POWER PACK - REFER TO SCHEDULE FOR MORE INFORMATION
REFER TO LIGHTING DEVICE SCHEDULE FOR MORE DEVICE INFORMATION.	
POWER EQUIPMENT	
	ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNTED)
	ELECTRICAL DISTRIBUTION PANELBOARD
	TRANSFORMER - THIN OUTLINE INDICATES EQUIPMENT PAD EXTENDING 6" FROM EQUIPMENT WHERE FLOOR MOUNTED
	DISCONNECT SWITCH - "60/3/60/3R" DENOTES AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB = CIRCUIT BREAKER, NO VALUE FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING
	COMBINATION DISCONNECT SWITCH - "60/3/60/0/3R" DENOTES AMPERES/POLE/FUSE/STARTER SIZE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB = CIRCUIT BREAKER, NO VALUE FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING
	HOME RUN
	CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN

WIRING DEVICES & OUTLETS	
CIRCUIT DESIGNATION AS FOLLOWS: LP-1 - 5 LP-1 = ASSOCIATED PANEL 5 = CIRCUIT	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	GFCI DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	DOUBLE DUPLEX GFCI RECEPTACLE
	SPECIAL TYPE RECEPTACLE - NEMA TYPE AS NOTED
	CONTROLLED RECEPTACLE
	INDICATES RECEPTACLE PROTECTED BY GFCI BREAKER
	RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPLASH
	RECEPTACLE INSTALLED VIA DROP CORD
RECEPTACLE, LETTER DESIGNATION AS FOLLOWS: EM = EMERGENCY RECEPTACLE H = HORIZONTALLY MOUNTED IG = ISOLATED GROUND USB = USB/DUPLEX WP = WEATHER PROOF COVER WR = WEATHER RESISTANT TR = TAMPER RESISTANT TV = TELEVISION 60" = MOUNTING HEIGHT TO CENTER OF DEVICE	
	TOGGLE DISCONNECT SWITCH, RATING AS INDICATED
	TELEPHONE OUTLET
	DATA OUTLET
	DATA / TELEPHONE COMBINATION OUTLET
	DATA OUTLET INSTALLED ABOVE COUNTER OR BACKSPLASH
	WIRELESS ACCESS POINT
	MULTI-SERVICE FLOOR BOX WITH DATA AND POWER OUTLETS; A = TYPE
	MULTI-SERVICE POKE THROUGH WITH DATA AND POWER OUTLETS; A = TYPE
	JUNCTION BOX (JBOX)
	EMERGENCY POWER OFF BUTTON
FIRE ALARM DEVICES	
	FIRE ALARM RELAY
	WATER FLOW SWITCH
	VALVE TAMPER SWITCH
	FAN SHUTDOWN RELAY
	FIRE ALARM STROBE - WALL MOUNTED
	FIRE ALARM STROBE - CEILING MOUNTED
	MANUAL FIRE ALARM PULL STATION
	FIRE ALARM BELL
	FIRE HORN AND STROBE - WALL MOUNTED
	FIRE HORN
	FIRE SPEAKER - WALL MOUNTED
	FIRE SPEAKER - CEILING MOUNTED
	FIRE SPEAKER AND STROBE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	CARBON DIOXIDE DETECTOR
	CEILING SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	THERMAL DETECTOR (HEAT)
	ELECTRIC DOOR HOLDER
	FIREMAN'S TELEPHONE OUTLET
	KNOX BOX

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

ELECTRICAL ONE-LINE & RISER DIAGRAM	
	FEEDER SYMBOL - REFER TO FEEDER SCHEDULE
	UTILITY METER (AS REQUIRED BY UTILITY)
	SURGE PROTECTION DEVICE
	GROUND CONNECTION
	MOTOR
	CIRCUIT BREAKER (RATING AS INDICATED)
	FUSED DISCONNECT SWITCH (RATING AS INDICATED)
	TRANSFORMER (TYPE AND RATINGS AS INDICATED)
	AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)
	GENERATOR (RATINGS AS INDICATED)
	NON-SEPARATELY DERIVED SOURCE SEPARATELY DERIVED SOURCE
	PANELBOARD, MULTIPLE SECTIONS WHERE SHOWN (REFER TO SCHEDULES)
THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.	

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



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DATE:	10.20.2022
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CHK'D BY:	NB

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ELECTRICAL
SYMBOLS
LEGEND

E001

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- 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. EACH INDIVIDUAL SECTIONS SHOULD EACH HAVE A FIXTURE WHIP LONG ENOUGH TO REACH THE DRIVER LOCATION ALL CONNECTIONS TO THE DRIVER SHALL OCCUR INSIDE THE BUILDING.

COORDINATE EXACT REQUIREMENTS OF INSTALLATION WITH ARCHITECT BEFORE ROUGH IN.



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CITY OF LEE'S SUMMIT
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LEE'S SUMMIT, MISSOURI 64064

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MO# PE-2007023868

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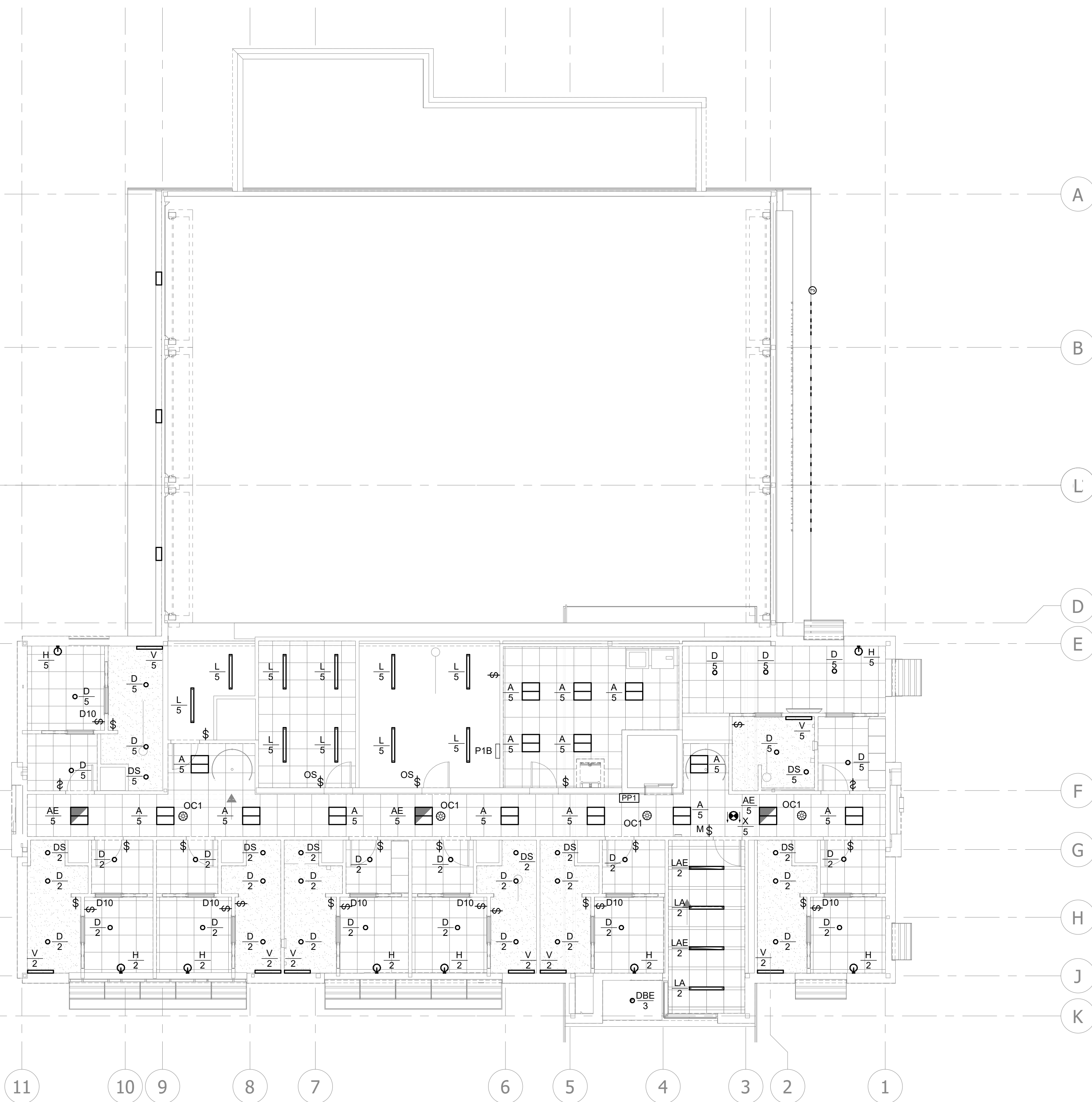
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SECOND FLOOR
LIGHTING RCP

E102

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1 SECOND FLOOR LIGHTING RCP

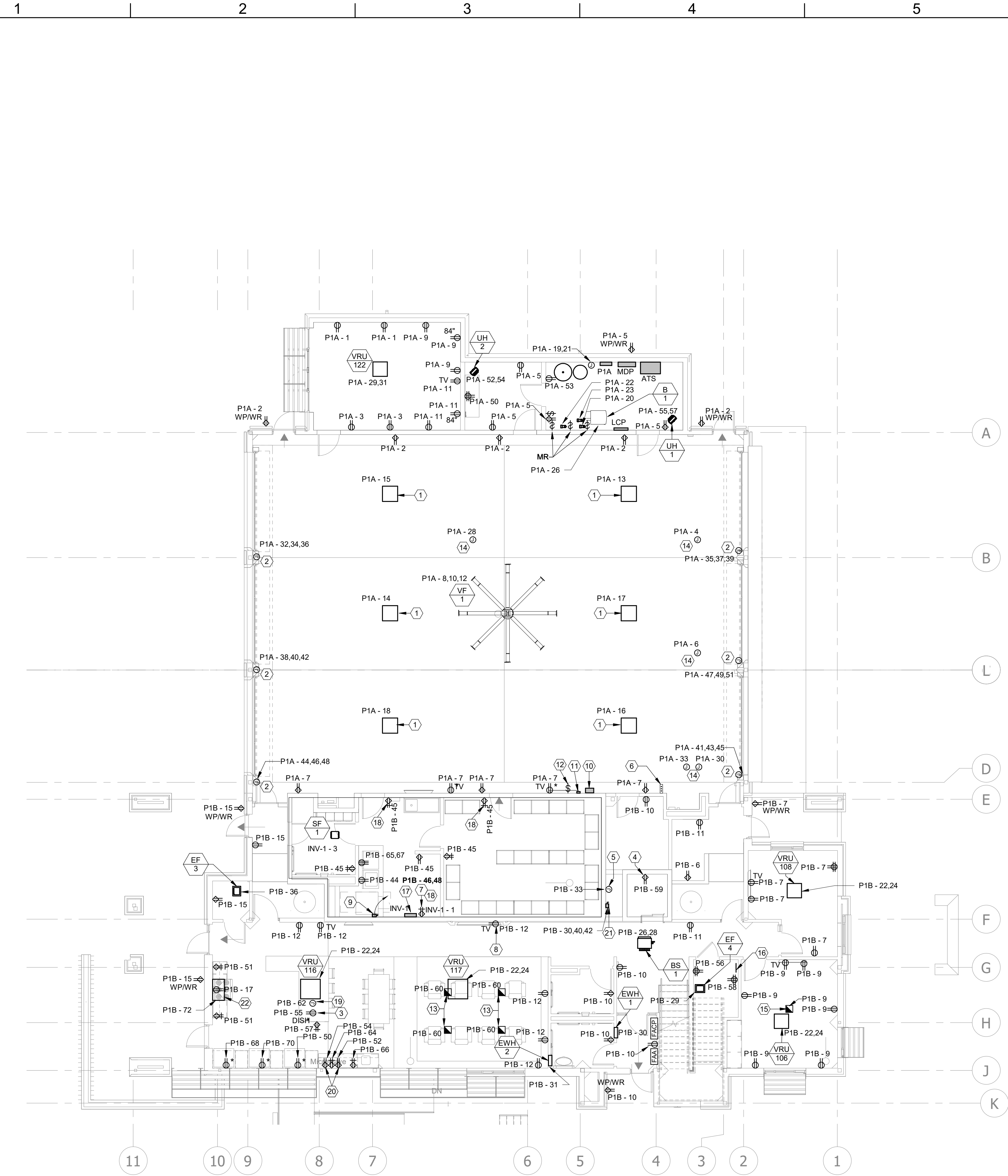
E

D

C

B

A



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

- 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 GROUNDING BAR IN TEL/RADIO. REFER TO SPECIFICATIONS AND DETAILS FOR MORE INFORMATION.
 - STORM SHELTER INVERTER. REFER TO SPECS.
 - RECEPTACLE SHALL BE SURFACE MOUNTED WITH SURFACE RACEWAY.
 - PROVIDE POWER CONNECTION AND SWITCH UNDER SINK FOR DISPOSER. ROUTE HOMERUN BELOW SLAB TO NEAREST WALL, THEN UP TO ABOVE CEILING.
 - MICROWAVE RECEPTACLES. MOUNT ONE AT 24" AFF. AND THE SECOND AT 5'-6" VERIFY EXACT DIMENSIONS WITH CASEWORK.
 - 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.

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DRAWN BY:	JL
CHK'D BY:	NB

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**FIRST FLOOR
POWER PLAN**

E201

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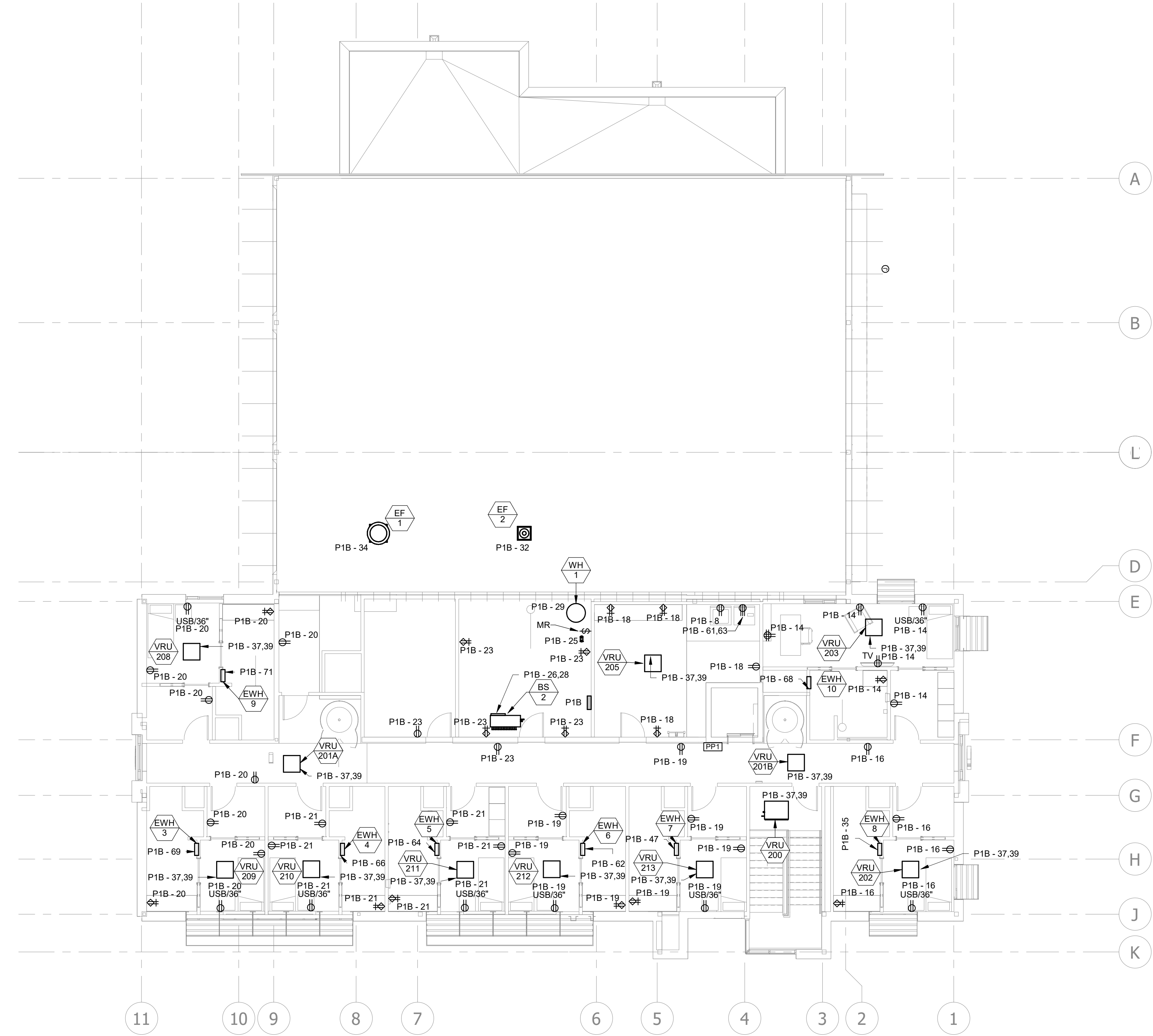
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SECOND FLOOR
POWER PLAN

E202

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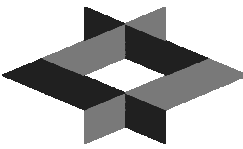
A1 SECOND FLOOR POWER PLAN
1/8" = 1'-0"

FILE PATH: BIM 360://18225R21001_LeeSummitFireStation_#4 and #5/LSMO FIRE STATION_5_MEP_V19.rvt

FILE PATH: B:\360-118225R21001_LeesSummitFireStation_#4 and #5\LSMO_FIRE STATION_5_MEP_V19.rvt

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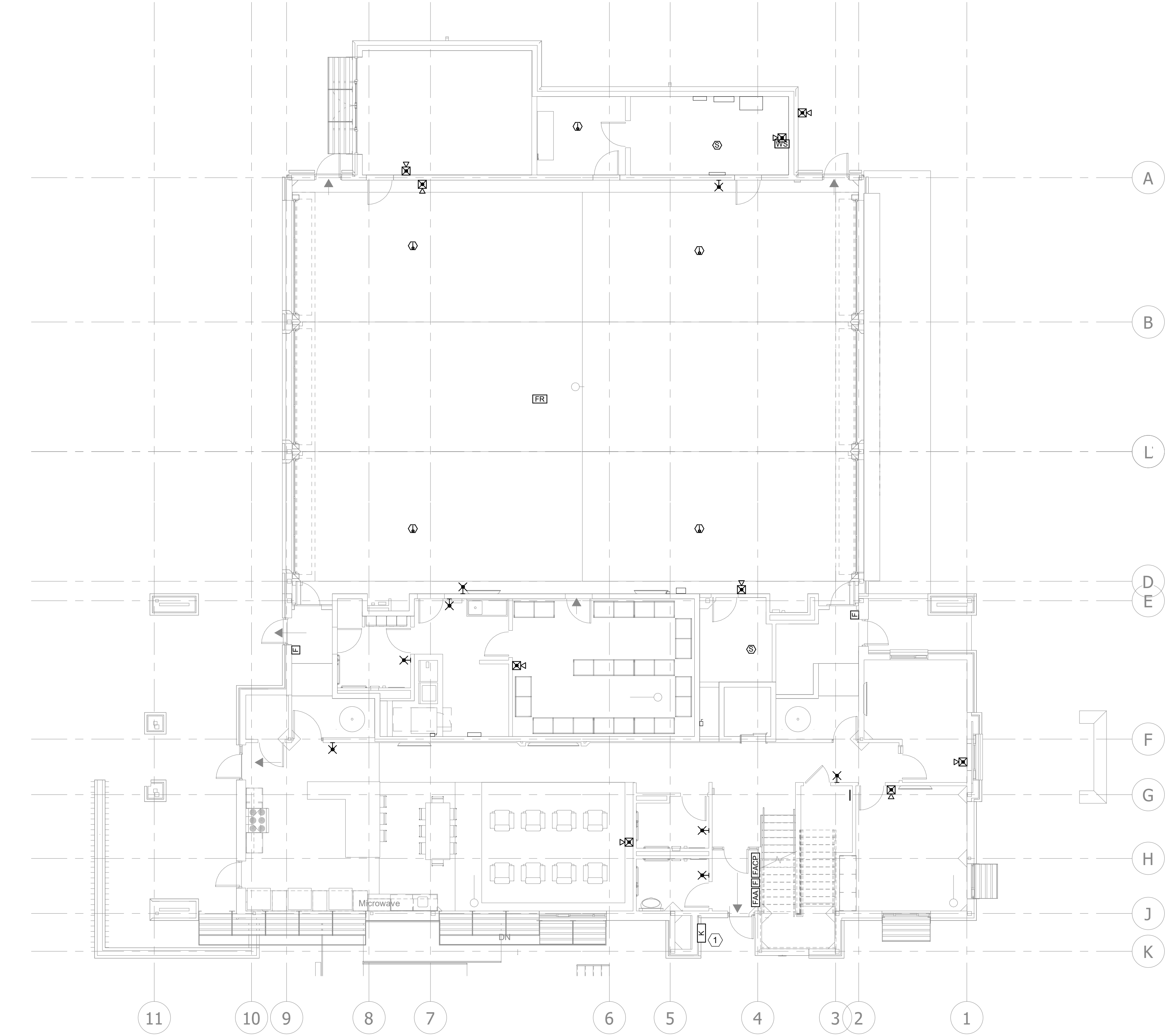
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**FIRST FLOOR
FIRE ALARM
PLAN**

E401

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

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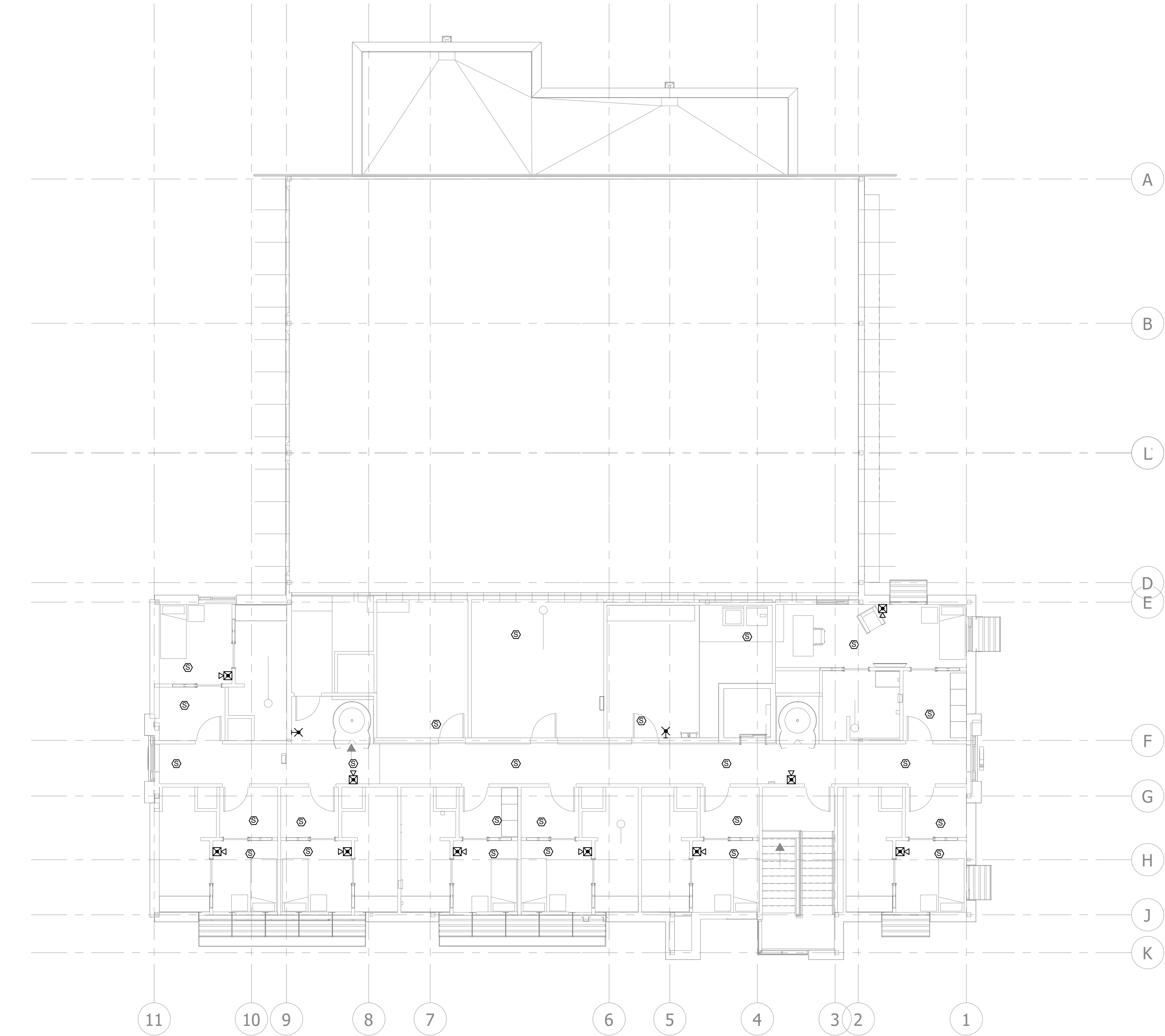
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D

C

B

A



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



SYSTEM INPUTS		ALARM	SUPERVISORY	TROUBLE	REPORT TO FIRE ALARM CONTROL PANEL	ACTIVATE GENERAL FIRE ALARM SUPERVISING STATION	SHUTDOWN NOTIFICATION DEVICE AT FDC	SHUTDOWN ALL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT	SHUTDOWN ALL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT	CLOSE ASSOCIATED SMOKE DAMPER
MANUAL PULL STATIONS										
AREA SMOKE DETECTORS										
DUCT SMOKE DETECTORS										
SPRINKLER VALVE TAMPER										
SPRINKLER WATER FLOW										
FIRE ALARM CONTROL PANEL LOSS OF POWER										
FIRE ALARM OPEN CIRCUIT										
FIRE ALARM GROUND FAULT										
FIRE ALARM SHORT CIRCUIT										

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

ELECTRICAL PLAN NOTES:



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**SECOND FLOOR
FIRE ALARM
PLAN**

E402

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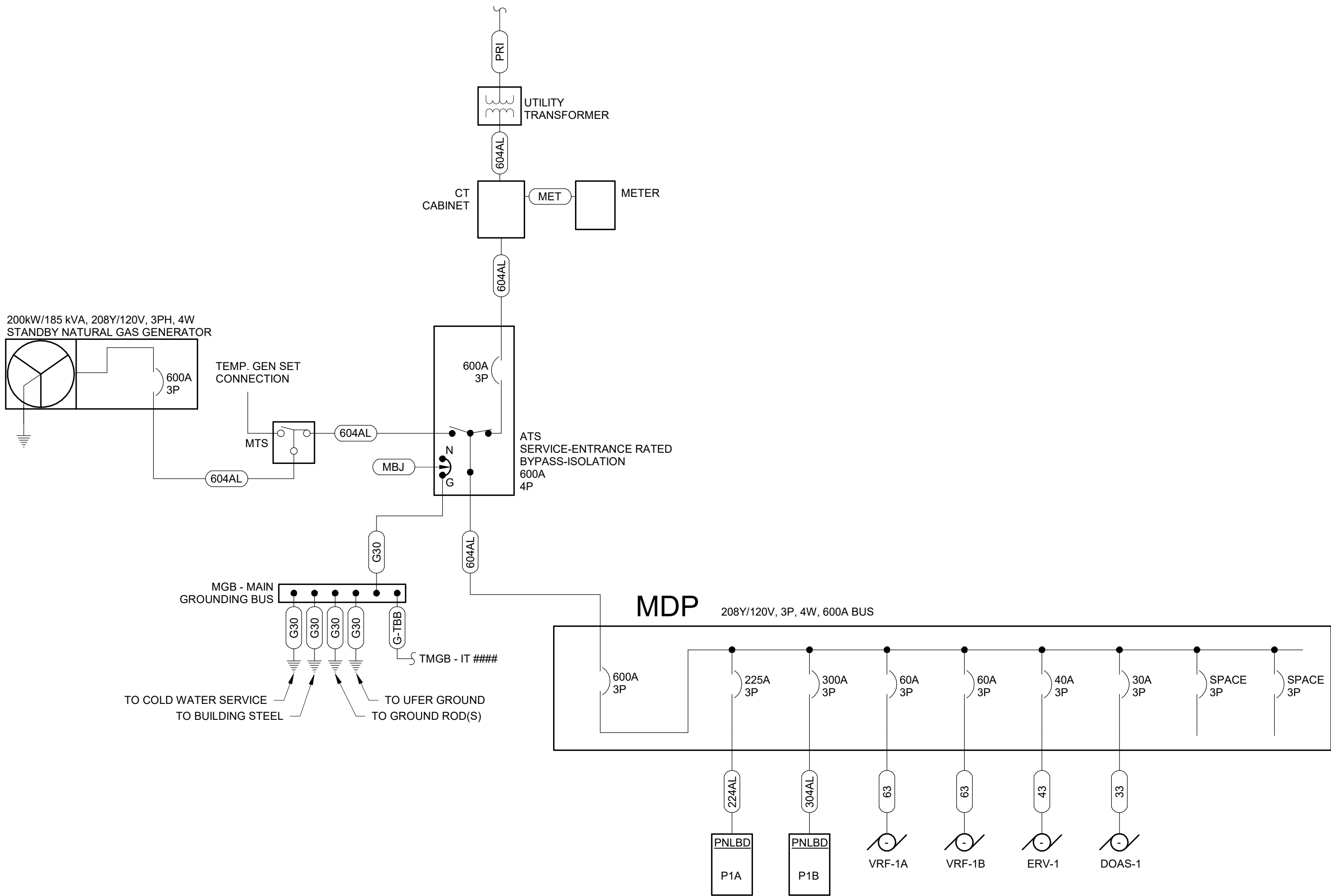
E

D

C

B

A



A3 ELECTRICAL ONE-LINE DIAGRAM
NOT TO SCALE

FEEDER SCHEDULE

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

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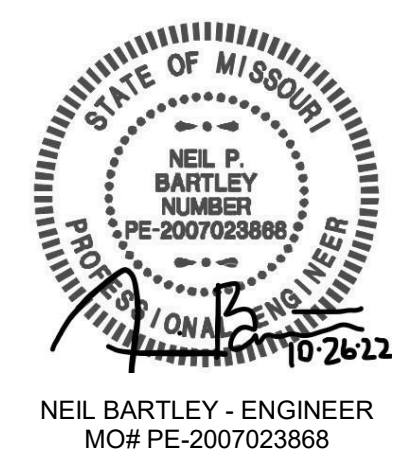
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CHK'D BY: NB

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**ELECTRICAL
ONE-LINE
DIAGRAM**

E502

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E

D

C

B

A

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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	3600	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	3600	3000 K	80	0-10V	RECESSED	120	37	41	2X2 RECESSED TROFFER WITH INTERGRAL EMERGENCY BATTERY	1,3
B	HE WILLIAMS	LRX4F-2-L8/830-DMA-DIM-UNV		LED	1600	3000 K	80	0-10V	RECESSED	120	13	15	2' RECESSED STRIP FIXTURE	1
BB	HE WILLIAMS	LRX4F-4-L8/830-DMA-DIM-UNV		LED	3200	3000 K	80	0-10V	RECESSED	120	27	30	4' RECESSED STRIP FIXTURE	1
BE	HE WILLIAMS	LRX4F-2-L8/830-EM/10W-DMA-DIM-UNV		LED	1600	3000 K	80	0-10V	RECESSED	120	13	15	2' RECESSED STRIP FIXTURE WITH INTERGRAL EMERGENCY BATTERY	1
C	HE WILLIAMS	6CR-TL-L10/830-DIM-UNV-OM		LED	1000	3000 K	80	0-10V	PENDANT	120	9	10	DECORATIVE PENDANT TBD	1,6,7
D	HE WILLIAMS	4DR-TL-L10/830-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT	1
DB	HE WILLIAMS	6DR-TL-L10/830-ATH-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	6" RECESSED DOWNLIGHT WEATHER RATED	1,2
DBE	HE WILLIAMS	6DR-TL-L10/830-EM/10W-ATH-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	6" RECESSED DOWNLIGHT WEATHER RATED WITH INTERGRAL COLD WEATHER EMERGENCY BATTERY	1,2,4
DE	HE WILLIAMS	4DR-TL-L10/830-EM/10W-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT WITH INTERGRAL EMERGENCY BATTERY	1
DS	HE WILLIAMS	4DR-TL-L10/830-DIM-UNV-SW-OF-WH-A D		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT SHOWER RATED	
F	BEGA	84 457 - NON-SKID LENS		LED	3211	3000 K	80	--	IN-GRADE	120	34	38	CAST-IN PLACE IN-GRADE FLAGPOLE FIXTURE	2,4,7
G	ACCLAIM LIGHTING	FLEXOSI35		LED	232	3000 K	95	0-10V	CHANNEL	120	3	3	LED TAPELIGHT WITH 45 DEG CHANNEL. LUMENS PER LINEAR FOOT. WATTAGE PER LINEAR FOOT	1,8,9
H	ARTEMIDE	SKOPOS		LED	72	3000 K	80	--	WALL MOUNT	120	1	1	WALL MOUNT FLEXABLE DESK LIGHT	
L	HE WILLIAMS	75L-4-L38/830-DMA-ACF-DIM-UNV		LED	3800	3000 K	80	0-10V	SUSPENDE D	120	31	35	4' LENSED SUSPENDED STRIP FIXTURE	
LA	FOCAL POINT	FSM4LS-BW-625F-30K-1C-UNV-LD1-C2 4		LED	2500	3000 K	80	0-10V	SUSPENDE D	120	22	24	4' SUSPENDED LINEAR	
LAE	FOCAL POINT	FSM4LS-BW-625F-30K-1C-UNV-LD1-C2 4-1EM		LED	2500	3000 K	80	0-10V	SUSPENDE D	120	22	24	4' SUSPENDED LINEAR WITH INTERGRAL EMERGENCY BATTERY	3
LE	HE WILLIAMS	75L-4-L38/830-EM/10W-DMA-ACF-DIM-UNV		LED	3800	3000 K	80	0-10V	SUSPENDE D	120	31	35	4' LENSED SUSPENDED STRIP FIXTURE WITH INTERGRAL EMERGENCY BATTERY	
M	TASK LIGHTING	SA9Q-F30		LED	200	3000 K	80	0-10V		120	2	2	UNDERCABINET LINEAR FIXTURE. LUMENS PER FOOT, WATTS	
S1	LITHONIA	DSX1 LED P4 30K T4M MVOLT		LED	13165	3000 K	80	--	POLE	120	125		POLE MOUNTED SITE LIGHTING FIXTURE	
V	HUBBELL	3L-W-ID-LPA-3-03-SOF-30K-I030-D030-U NV		LED	900	3000 K	80	0-10V	WALL MOUNT	120	6	7	VANITY LIGHT TBD	1
WL	MICROLINEA	ML3WLASY-D-CO(628LPF)K40-80-12-R -FLA-F01M-EF-UNV-DIM10		LED	2578	3000 K	80	--	RECESSED	120	356	395	EXTERIOR LINEAR WALL-WASH FIXTURE. 4 FT SECTIONS, 7.5 W/FT. LUMENS OUTPUT PER 4 FT	2
WP	ACUITY	WDGE3 LED P2 30K 80CRI MVOLT SRM		LED	8500	3000 K	80	--	WALL MOUNT	120	15	17	EXTERIOR WALL PACK	2
WS	BEGA	24 582		LED	1581	3000 K	85	--	WALL MOUNT	120	17	18	EXTERIOR WALL SQUARE DOWN LIGHT	2
WXE	ACUITY	WDGE2 P130K 80CRI VF MVOLT SRM		LED	1200	3000 K	80	--	WALL MOUNT	120	10	11	EXTERIOR WALL PACK WITH COLD-WEATHER EM BATTERY	2,4
X	H.E. WILLIAMS	EXIT-R-EM-WHT-SDT		LED					UNIVERSAL	120				3,5

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

- 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					
AUXILIARY DEVICES											
PP1	WATTSTOPPER	BZ150	OCCUPANCY SENSOR POWER PACK	--				20 A	PLENUM	120	
RC3	WATTSTOPPER	LMRC-213	3 ZONE 0-10V DIMMING ROOM CONTROLLER	0-10V				20 A	PLENUM	120	
CEILING-MOUNTED OCCUPANCY SENSOR											
OC1	WATTSTOPPER	CI-305	(LOW VOLTAGE PIR CEILING OCCUPANCY SENSOR PROGRAMMED TO AUTO ON/AUTO OFF.)		AUTO-ON	INFRARED	30 MIN		CEILING	24	1,2,3,4
OCCUPANCY SENSOR SWITCH											
OS	WATTSTOPPER	PW-101	(LINE VOLTAGE INFRARED OCCUPANCY SWITCH PROGRAMMED TO AUTU ON/AUTO OFF)	--	AUTO-ON	INFRARED	30 MIN	0 A	WALL	120	3,5
WALL SWITCHES											
D10	LUTRON	DVSTV-XX	LINE VOLTAGE 0-10V DIMMING WALL SWITCH	0-10V				8 A	WALL	120	
LVD	WATTSTOPPER	LMDM-101	(LOW VOLTAGE DIMMING WALL SWITCH	YES					WALL	24	

- NOTES:
1. PROVIDE SENSOR WITH EXTENDED RANGE LENSE.
 2. SENSOR TO BE SET TO EXTENDED CORRIDOR DETECTION WHEN USED IN CORRIDORS.
 3. 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.
 4. 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.
 5. MANUAL OVERRIDE SWITCH SHALL DE-ENERGIZE LOAD DURING OCCUPANCY FOR THE DURATION OF THE SET TIME DELAY. MANUAL ON SWITCH SHALL ENERGIZE LOAD FOR THE DURATION OF OCCUPANCY.

- GENERAL NOTES:
- A. ARCHITECHT SHALL SELECT COLOR FROM MANUFACTURER'S COLOR PALATE DURING THE SUBMITTAL PROCESS.
 - B. PROVIDE POWER PACKS FOR ALL LOW VOLTAGE OCCUPANCY SENSORS.
 - C. PROVIDE POWER PACK TYPE AND QUANTITY RECOMMENED BY MANUFACTURER FOR DEVICES SCHEDULED.
 - D. PROVIDE ALL REQUIRED WIRING FOR A COMPLETE INSTALLATION. REFERENCE MANUFACTURER'S WIRING DIAGRAMS FOR ALL REQUIRED WIRING.
 - E. 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.
 - F. ALL WALL SWITCHES WITH MORE THAN TWO BUTTONS OR BUTTONS FOR DIMMING SHALL BE ENGRAVED WITH THE SCENE FUNCTION. TEXT SHALL BE SELECTED DURING THE SUBMITTAL PROCESS.
 - G. PROVIDE TWO DIGITAL WIRELESS CONFIGURATION TOOLS, WATTSTOPPER MODEL LMCT-100.

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



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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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ELECTRICAL
SCHEDULES

E600

PLEASE CONSIDER THE ENVIRONMENT
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E

D

C

B

A

PANELBOARD: P1A																			
LOCATION: UTILITY 120							VOLTS/PHASE 208Y/120V, 3Ph, 4W							EQUIPMENT GROUND BUS					
FED FROM: MDP							MIN AIC RATING: 22 kAIC												
MOUNTING: SURFACE							BUS AMPS: 225 A												
MAIN LUG RATING: 225 A																			
CKT	LOAD DESCRIPTION	WIRE SIZE	GND SIZE	TYPE	BKR AMP	P	A		B		C		P	BKR AMP	TYPE	GND SIZE	WIRE SIZE	LOAD DESCRIPTION	CKT
1	NORTH EXERCISE RECEPTACLES				20 A	1	360	900					1	20 A				NORTH WALL APP. BAY...	2
3	SOUTH EXERCISE RECEPTACLES				20 A	1			360	500			1	20 A				DROP CORD RECEPTACLES	4
5	UTILITY AND SHOP...				20 A	1					900	500	1	20 A				DROP CORD RECEPTACLES	6
7	SOUTH WALL APP. BAY...				20 A	1	900	828					3	15 A				APP. BAY VENT FAN (VF-1)	8
9	RECEPTACLE EXERCISE /...				20 A	1			540	828			--	--	--	--	--	--	10
11	RECEPTACLE EXERCISE /...				20 A	1					540	828	--	--	--	--	--	--	12
13	NORTHWEST APP. EXHASUT FAN				20 A	1	1560	1560					1	20 A				EAST APP. EXHASUT FAN	14
15	NORTHEAST APP. EXHASUT FAN				20 A	1			1560	1560			1	20 A				SOUTHWEST APP. EXHASUT FAN	16
17	WEST APP. EXHASUT FAN				20 A	1					1560	1560	1	20 A				SOUTHEAST APP. EXHASUT FAN	18
19	AIR COMPRESSOR				60 A	2	2912	90					1	20 A				HOT WATER PUMP 2	20
21	--	--	--	--	--	--			2912	90			1	20 A				HOT WATER PUMP 3	22
23	HOT WATER PUMP 1				20 A	1					110	1195	1	20 A				UTILITY, SHOP, EXER., APP. BA...	24
25	SOUTH APPARATUS BAY...				20 A	1	763	420					1	20 A				BOILER	26
27	OUTDOOR LIGHTING				20 A	1			504	500			1	20 A				DROP CORD RECEPTACLES	28
29	EXERCISE VRU				15 A	2					52	500	1	20 A				DROP CORD RECEPTACLES	30
31	--	--	--	--	--	--	52	1320					3	30 A				EAST BAY DOOR 1 - 3hp	32
33	DROP CORD RECEPTACLES				20 A	1			500	1320			--	--	--	--	--	--	34
35	WEST BAY DOOR 1 - 5hp				35 A	3					2100	1320	--	--	--	--	--	--	36
37	--	--	--	--	--	--	2100	1320					3	20 A				EAST BAY DOOR 2 - 3hp	38
39	--	--	--	--	--	--			2100	1320			--	--	--	--	--	--	40
41	WEST BAY DOOR 2 - 5hp				35 A	3					2100	1320	--	--	--	--	--	--	42
43	--	--	--	--	--	--	2100	1320					3	20 A				EAST BAY DOOR 3 - 3hp	44
45	--	--	--	--	--	--			2100	1320			--	--	--	--	--	--	46
47	WEST BAY DOOR 3 - 5hp				35 A	3					2100	1320	--	--	--	--	--	--	48
49	--	--	--	--	--	--	2100	360					1	20 A				RECEPTACLE SHOP 122	50
51	--	--	--	--	--	--			2100	1500			2	20 A				SUPPLEMENTAL HEAT 121	52
53	RECEPTACLE COMPR 121				20 A	1					180	1500	--	--	--	--	--	--	54
55	SUPPLEMENTAL HEAT 120				20 A	2	1500											--	56
57	--	--	--	--	--	--			1500									--	58
59	GENERATOR BLOCK HEATER				20 A	1					1500							--	60
61	GENERATOR BATTERY CHARGER				20 A	1	400											--	62
63																		--	64
65																		--	66
67																		--	68
69																		--	70
71																		--	72
73																		--	74
75																		--	76
77																		--	78
79																		--	80
81																		--	82
83																		--	84
TOTAL LOAD (VA):							22865 VA	23114 VA	21185 VA										
TOTAL AMPS:							193 A	195 A	177 A										
LOAD TYPE		CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES					PANELBOARD TOTALS									
EXISTING LOAD																			
COOLING			0%	0 VA						TOTAL CONNECTED LOAD:					67164 VA				
HEATING			0%	0 VA						TOTAL NEC DEMAND:					68169 VA				
LIGHTING		2462 VA	125%	3077 VA						TOTAL CONNECTED CURRENT:					186 A				
RECEPTACLES		5040 VA	100%	5040 VA						TOTAL NEC DEMAND CURRENT:					189 A				
MOTORS (125% OF LARGEST)		9754 VA	104%	10144 VA															
KITCHEN EQUIPMENT																			
MISCELLANEOUS		41004 VA	100%	41004 VA															
SUPPLEMENTAL HEAT																			
SIGNAGE																			

Branch Panel: INV-1

Location: DECON 112

Supply From: P1B

Mounting: Surface

Enclosure:

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

Phases: 1

Wires: 3

Input: 120V, 1ph

Output: 120V, 1ph

A.I.C. Rating:

Mains Type:

Mains Rating: 20 A

MCB Rating: 20 A

Notes:

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

Legend:

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

Notes:

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

PANELBOARD: P1B																			
LOCATION: MECH. 206							VOLTS/PHASE 208Y/120V, 3Ph, 4W							EQUIPMENT GROUND BUS					
FED FROM: MDP							MIN AIC RATING: 10 kAIC							SURGE PROTECTION DEVICE					
MOUNTING: SURFACE							BUS AMPS: 400 A												
							MAIN LUG RATING: 400 A												
NOTE: PANEL PROTECTED WITH 300A OCPD																			
CKT	LOAD DESCRIPTION	WIRE SIZE	GND SIZE	TYPE	BKR AMP	P	A		B		C		P	BKR AMP	TYPE	GND SIZE	WIRE SIZE	LOAD DESCRIPTION	CKT
1	RECEPTACLE				20 A	1	360	1027					1	20 A				LIGHTING LCKR ALC. 202	2
3	OUTDOOR LIGHTING				20 A	1			683	268			1	20 A				INV-1	4
5	SECOND FLOOR LIGHTING				20 A	1					1398	900	1	20 A				ICE MACHINE	6
7	CAPTAIN OFFICE RECEPTACLES				20 A	1	1440	750					1	20 A				RECEPTACLE MECH. 205	8
9	CONF. ROOM RECEPTACLES				20 A	1			1440	1260			1	20 A				TOILET/EMS STOR....	10
11	TEL/RADIO/RAMP RECEPTACLES				20 A	1					1060	1080	1	20 A				DAY ROOM RECEPTACLES	12
13	BATHROOM HEATER				20 A	1	1500	1080					1	20 A				CAPTAN BUNKS RECEPTACLES	14
15	KITCHEN/JAN/RAMP...				20 A	1			900	900			1	20 A				BUNK 202 RECEPTACLES	16
17	KITCHEN RANGETOP				20 A	1					180	720	1	20 A				LAUNDARY 205 RECEPTACLES	18
19	BUNK 212 AND 213...				20 A	1	1620	1800					1	20 A				BUNK 208 AND 209...	20
21	BUNK 210 AND 211...				20 A	1			1440	216			2	15 A				FIRST LEVEL VRU	22
23	MECH/GEN STORAGE...				20 A	1					1080	216	--	--	--	--	--		24
25	HWH RECIRCULATION PUMP				20 A	1	100	104					2	15 A				BS-1	26
27	WATER HEATER				20 A	1			600	104			--	--	--	--	--		28
29	TEL/RADIO EF-4				20 A	1					126	1500	1	20 A				EWH-1	30
31	EWH-2				20 A	1	1500	82					1	20 A				EF-1	32
33	ELEVATOR LIGHTING				15 A	1			180	1656			1	20 A				EF-2	34
35	BATHROOM HEATER				20 A	1					1500	37	1	20 A				EF-3	36
37	2ND LEVEL VRU				15 A	2	624	2867					3	30 A				ELEVATOR	38
39	--	--	--	--	--	--			624	2867			--	--	--	--	--		40
41	SITE LIGHTING				20 A	1					493	2867	--	--	--	--	--		42
43	FIRST FLOOR LIGHTING				20 A	1	1163	1500					1	20 A				WASHING MACHINE	44
45	LOCKER ROOM RECEPTACLES				20 A	1			900	1873			2	30 A		10	10	WASHER/EXTRACTOR...	46
47	SUPPLEMENTAL HEATING RR				20 A	1					1500	1873	--	--	--	--	--		48
49	FIRE ALARM CONTROL PANEL				20 A	1	300	750					1	20 A				REFRIGERATOR	50
51	RECEPTACLE STAIR 200				20 A	1			360	1500			1	20 A				MICROWAVE	52
53	BATHROOM HEATER				20 A	1					1500	1500	1	20 A				MICROWAVE	54
55	MISCELLANEOUS STAIR 200				20 A	1	1200	360					1	20 A				RECEPTACLE ADMIN...	56
57	RECEPTACLE STAIR 200				20 A	1			180	360			1	20 A				RECEPTACLE ADMIN...	58
59	RECEPTACLE JAN. 104				20 A	1					180	720	1	20 A				RECEPTACLE DAY ROOM 117	60
61	DRYER LAUNDRY 205	10	10		30 A	2	1440	800					1	20 A				DISPOSER	62
63	--	--	--	--	--	--			1440	180			1	20 A				RCPT. KITCHEN	64
65	DRYER DECON 112	10	10		30 A	2				1440	180		1	20 A				RCPT. KITCHEN	66
67	--	--	--	--	--	--	1440	750					1	20 A				REFRIGERATOR	68
69	BATHROOM HEATER				20 A	1			1500	750			1	20 A				REFRIGERATOR	70
71	BATHROOM HEATER				20 A	1					1500	400	1	20 A				RANGE HOOD	72
73	BATHROOM HEATER				20 A	1	1500												74
75	BATHROOM HEATER				20 A	1			1500										76
77																			78
79								0					--	--	--	--	--	SPD	80
81									0				--	--	--	--	--		82
83												0	--	--	--	--	--		84
TOTAL LOAD (VA):							26039 VA		23680 VA		24191 VA								
TOTAL AMPS:							218 A		197 A		202 A								
LOAD TYPE		CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES							PANELBOARD TOTALS							
EXISTING LOAD												TOTAL CONNECTED LOAD: 73910 VA TOTAL NEC DEMAND: 71684 VA TOTAL CONNECTED CURRENT: 205 A TOTAL NEC DEMAND CURRENT: 199 A							
COOLING			0%	0 VA															
HEATING			0%	0 VA															
LIGHTING		3238 VA	125%	4048 VA															
RECEPTACLES		20370 VA	75%	15185 VA															
MOTORS (125% OF LARGEST)		16322 VA	113%	18472 VA															
KITCHEN EQUIPMENT																			
MISCELLANEOUS		17370 VA	100%	17370 VA															
SUPPLEMENTAL HEAT		15000 VA	100%	15000 VA															
SIGNAGE																			

FILE PATH: B:\380-1182252P21001_LeeSummitFireStation_#4 and #5\210001291 LSNO FIRE STATION_#5 v19.rvt

MARK D. MAURER

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D

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B

A

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

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

CONDUIT ROUTING AND SEPARATION

BOTH EMT

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

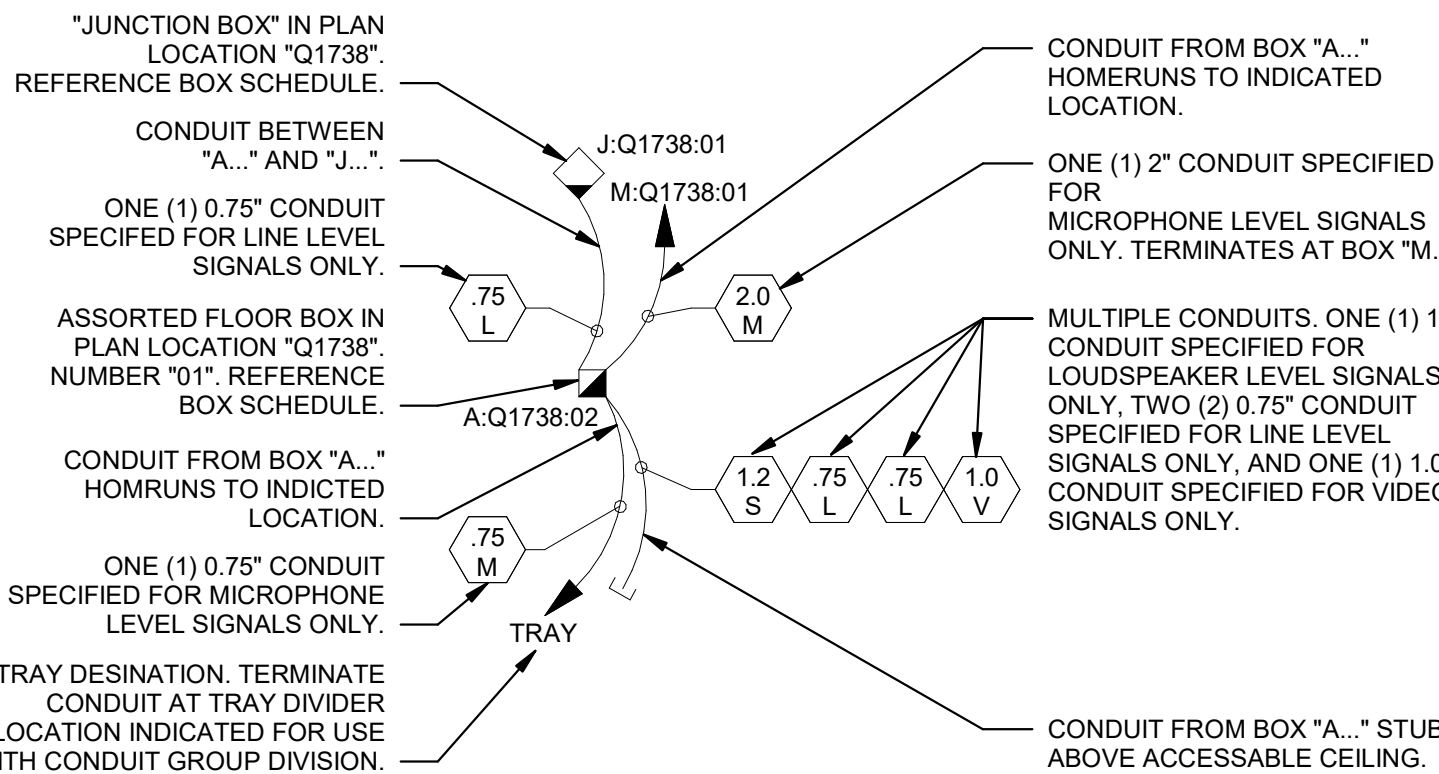
POWER IN RIGID

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

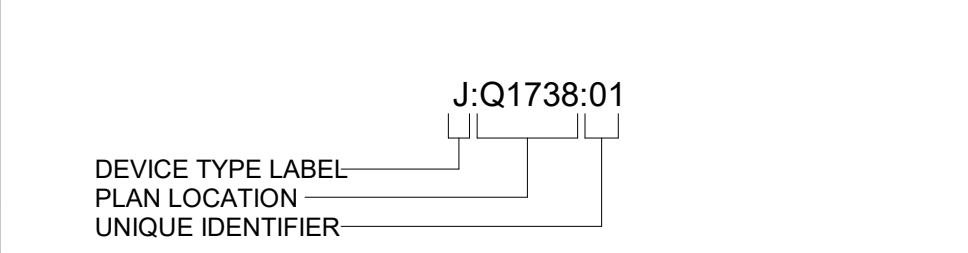


NOTE: FOR TYPICAL BOXES, REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INSTRUCTIONS. FOLLOW CONDUIT REQUIREMENTS AS LISTED IN SCHEDULE AND ANY ADDITIONAL NOTES AS INDICATED ON PLANS.

PLAN LEGEND	
BOX AND PLAN SYMBOLS	
X##	WALL BOX. "X" INDICATES FUNCTION OF BOX (REFER TO BOX LABEL LEGEND). "##" INDICATES BOX DESIGNATION.
X##	FLOOR BOX. SIMILAR TO ABOVE.
X##	POKE THRU. SIMILAR TO ABOVE.
AV X##	CEILING MOUNTED BOX. SIMILAR TO ABOVE.
S##	FLUSH MOUNTED CEILING LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER IDENTIFICATION INFORMATION.
S##	PENDANT MOUNTED LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER IDENTIFICATION INFORMATION.
M X##	CEILING MOUNTED MICROPHONE. SIMILAR TO ABOVE. NO BACK BOX.
C X##	CEILING MOUNTED CAMERA. SIMILAR TO ABOVE. NO BACK BOX.
TYPICAL BOX SYMBOLS	
YY-F#	WALL BOX. "YY" INDICATES TYPE. REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INFORMATION AND AS INDICATED ON PLANS AND KEY NOTES.
YY-F#	FLOOR BOX. CEILING BOX. SIMILAR TO ABOVE. "YY" INDICATES SYMBOL TYPE. "F#" INDICATES UNIQUE IDENTIFIER.
CONDUIT LEGEND	
# A	INDICATES ASSORTED SIGNALS ONLY. "A" SPECIFIES SIZE OF CONDUIT.
# L	INDICATES LINE LEVEL SIGNALS ONLY. "L" SPECIFIES SIZE OF CONDUIT.
# M	INDICATES MICROPHONE LEVEL SIGNALS ONLY. "M" SPECIFIES SIZE OF CONDUIT.
# P	INDICATES PRODUCTION INTERCOM LEVEL SIGNALS ONLY. "P" SPECIFIES SIZE OF CONDUIT.
# S	INDICATES LOUDSPEAKER LEVEL SIGNALS ONLY. "S" SPECIFIES SIZE OF CONDUIT.
# V	INDICATES VIDEO SIGNALS ONLY. "V" SPECIFIES SIZE OF CONDUIT.
# W	INDICATES WIRELESS/RF SIGNALS ONLY. "W" SPECIFIES SIZE OF CONDUIT.
.75 X	0.75" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
1.0 X	1" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
1.2 X	1.25" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
1.5 X	1.5" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
2.0 X	2" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
2.5 X	2.5" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
3.0 X	3" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
	CONDUIT PATH.
X##	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.	

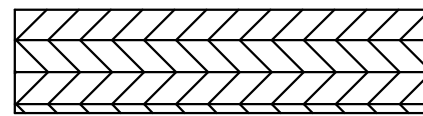
LABEL LEGEND	
A	ASSORTED
B	BROADCAST
C	CONTROL
D	DSS SATELLITE
E	EXISTING
F	FUTURE / BY OTHERS
G	GAME CLOCK
J	JUNCTION / PULL BOX
K	CAMERA
L	LINE-LEVEL AUDIO
M	MICROPHONE-LEVEL AUDIO
P	PRODUCTION INTERCOM
R	EQUIPMENT RACK
S	LOUDSPEAKER-LEVEL AUDIO
T	TELEVISION DISTRIBUTION
V	VIDEO
W	WIRELESS / RF
DS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

LABEL STANDARD

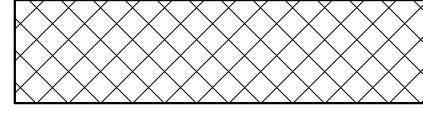


CALL OUTS

ENLARGED PLAN CALLOUT



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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
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CHK'D BY: M.MAURER

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AUDIO-VIDEO
GENERAL NOTES

TA000

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— - — - — ALTERNATE OUTLINE

Product Name/Model#	PRODUCT REFLECTING BASIS OF DESIGN
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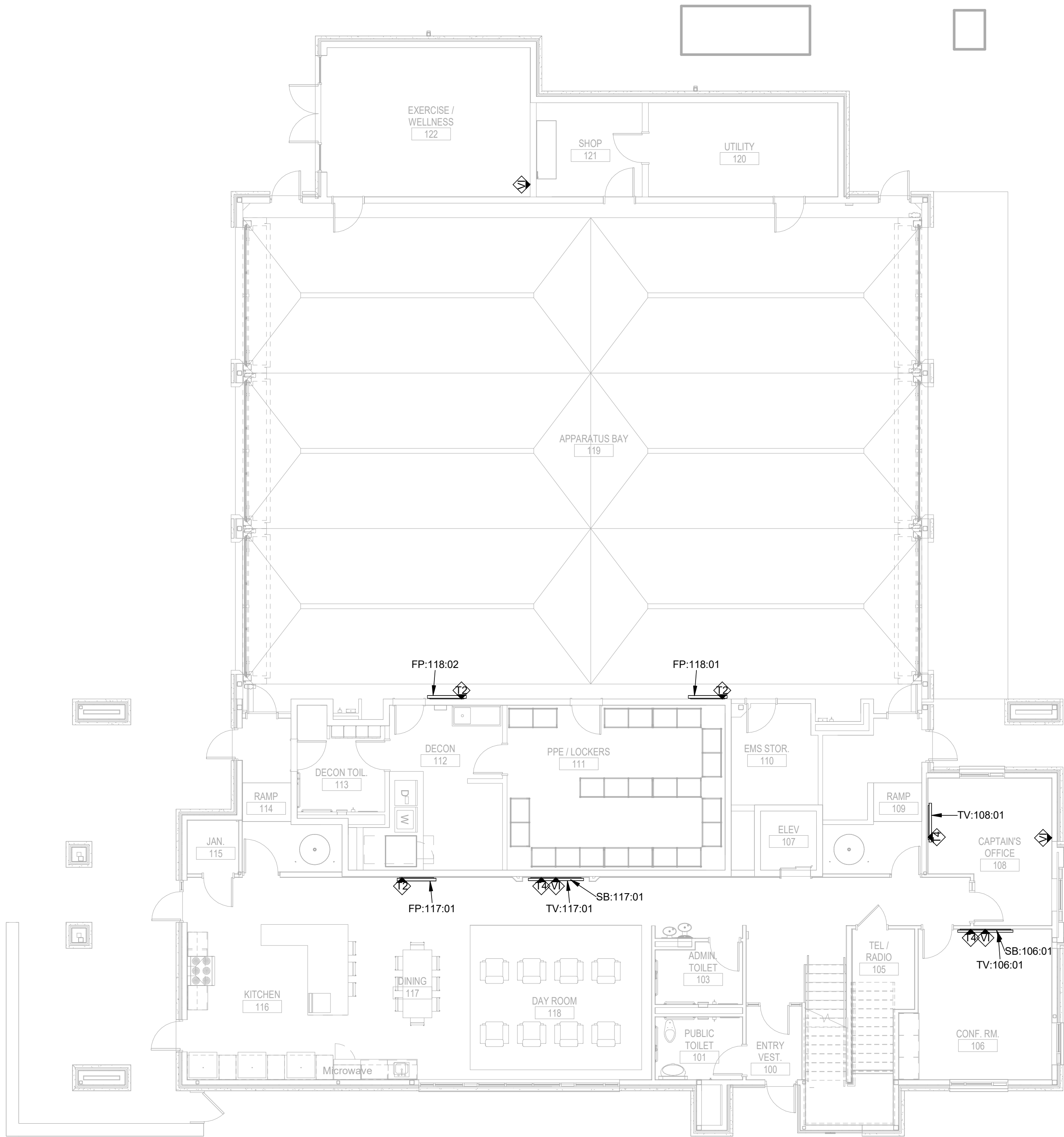
E

D

C

B

A



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

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100 % CONSTRUCTION DOCUMENT DRAWINGS

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AUDIO-VIDEO
LEVEL 1 PLAN

TA101

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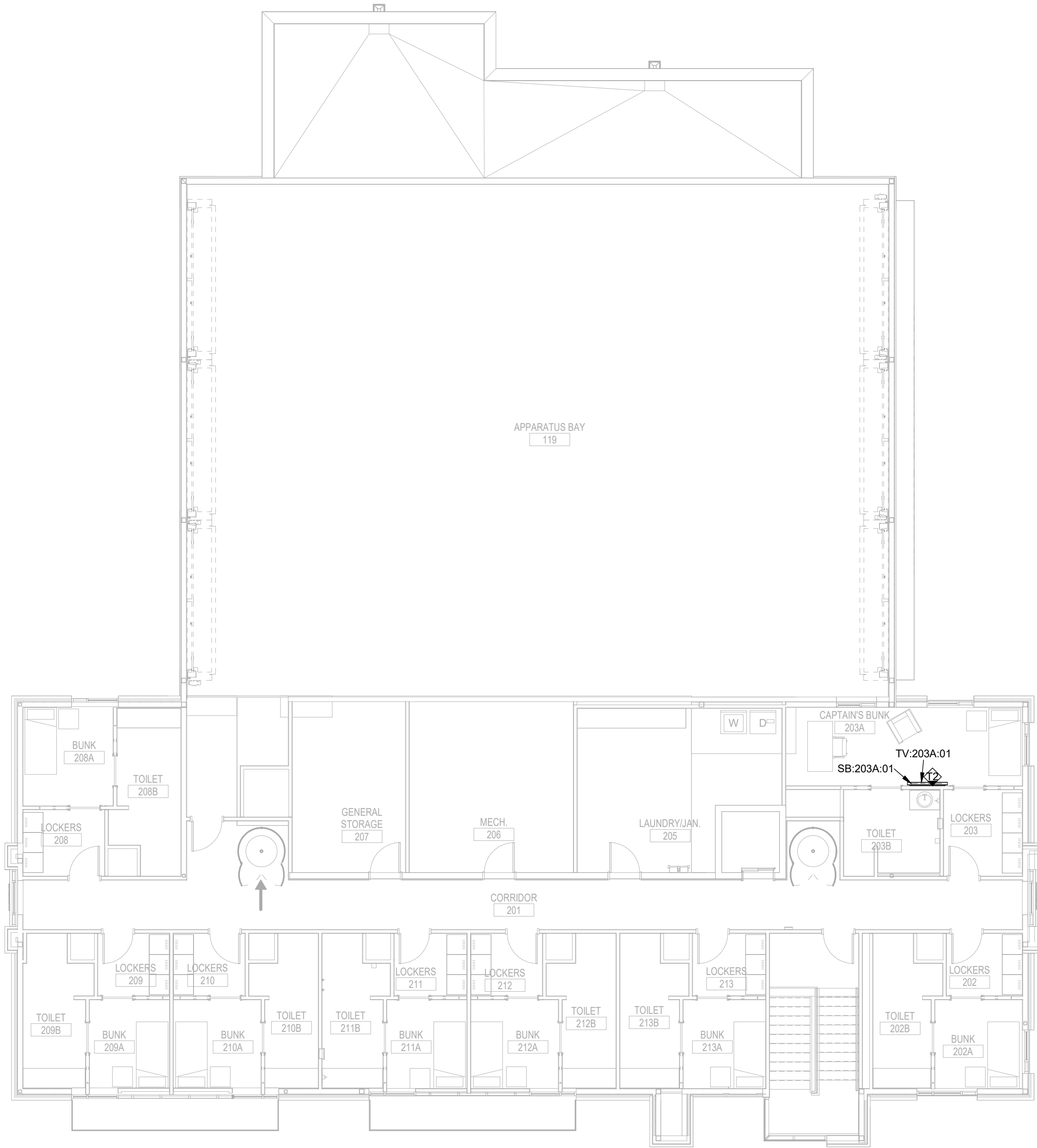
E

D

C

B

A



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

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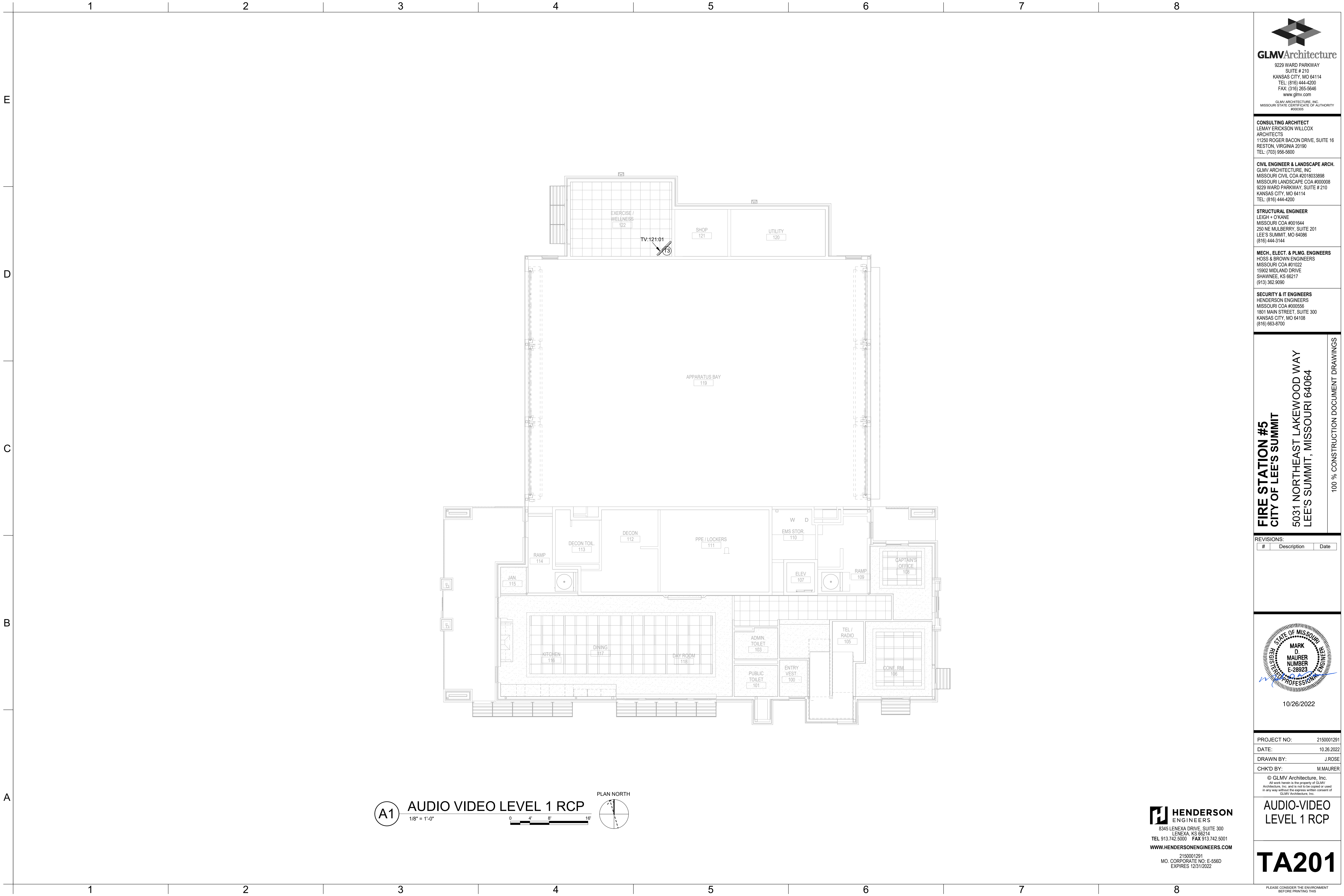
AUDIO-VIDEO
LEVEL 2 PLAN

TA102

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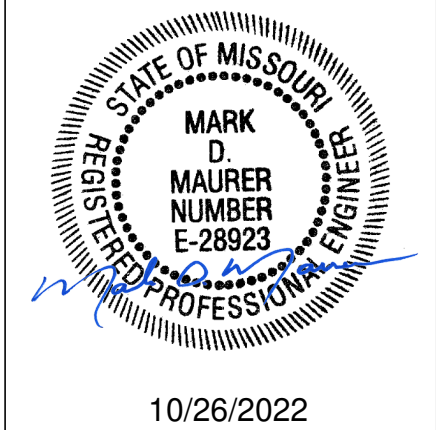
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REVISIONS:		
#	Description	Date



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

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AUDIO-VIDEO
LEVEL 1 RCP

TA201

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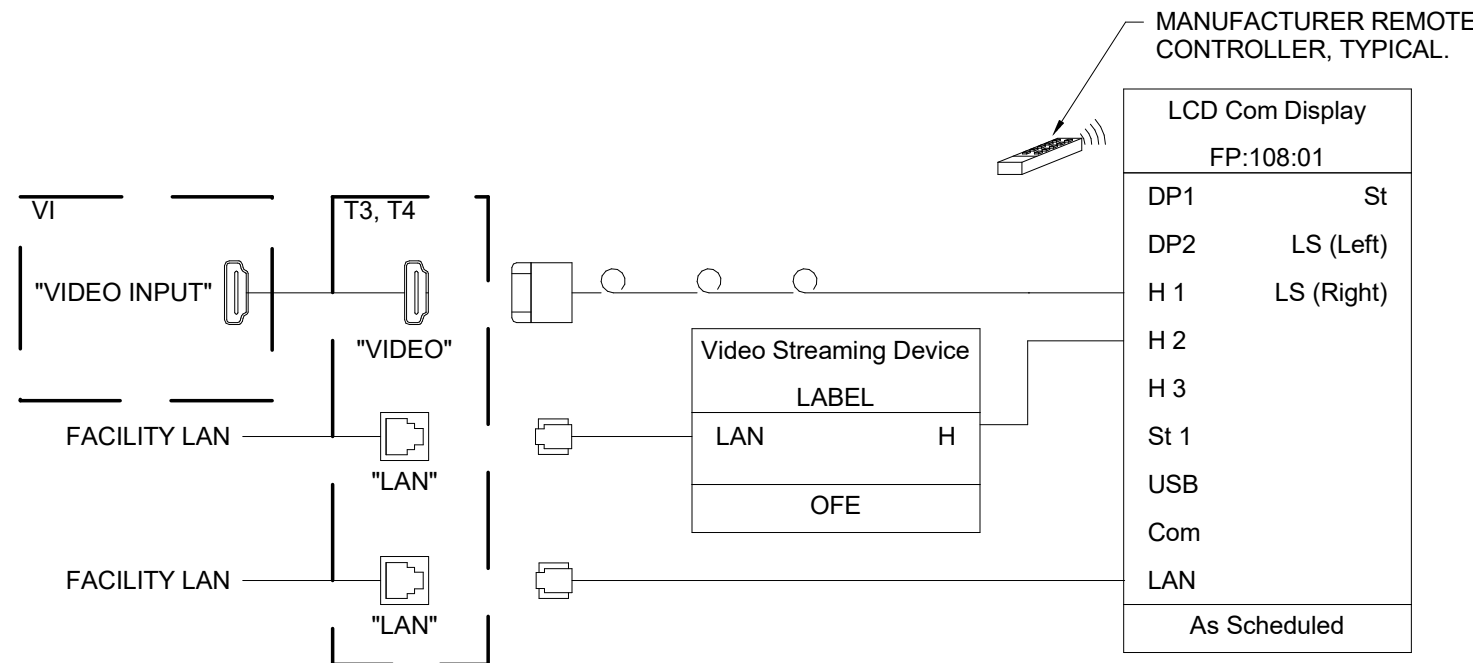
2150001291
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2022

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

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

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

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

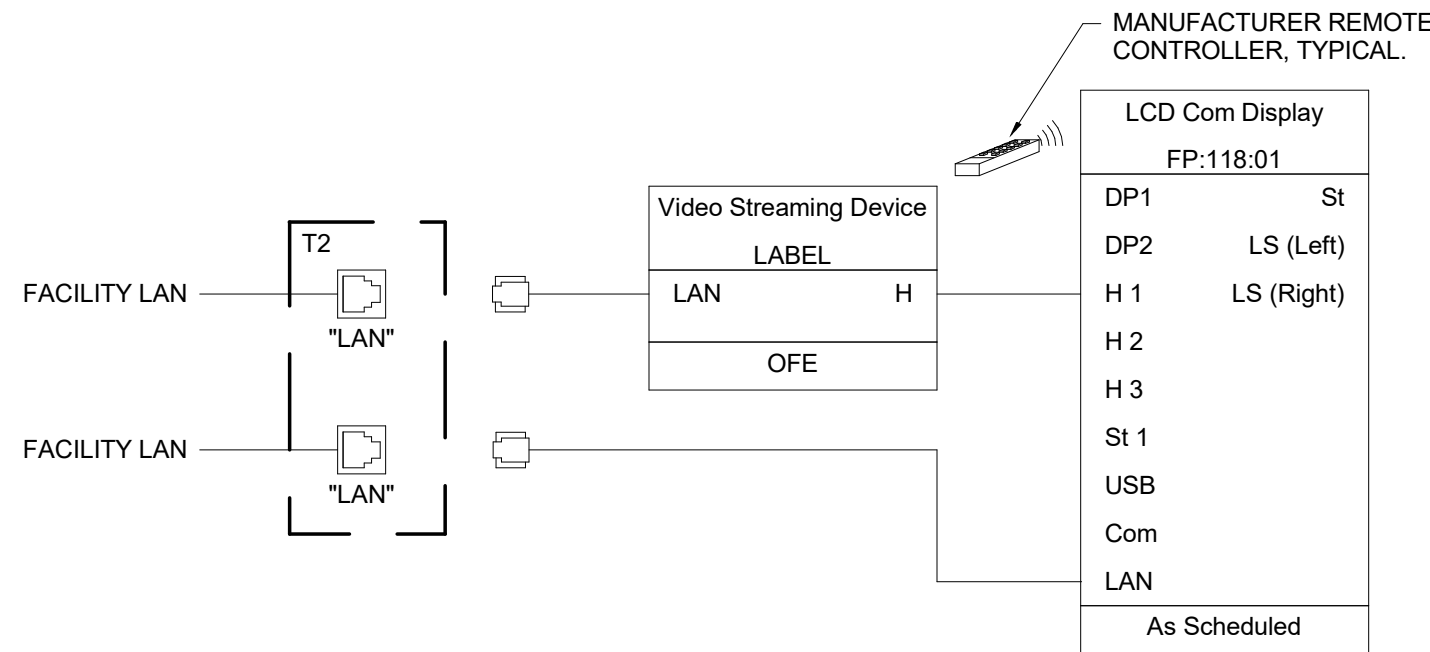


B1 CAPTAIN'S OFFICE 108 DISPLAY WITH LOCAL HDMI, FP:108:01 SHOWN

NOT TO SCALE

NOTES:

- SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN, PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:
 - EXERCISE / WELLNESS 122 (FP:122:01)

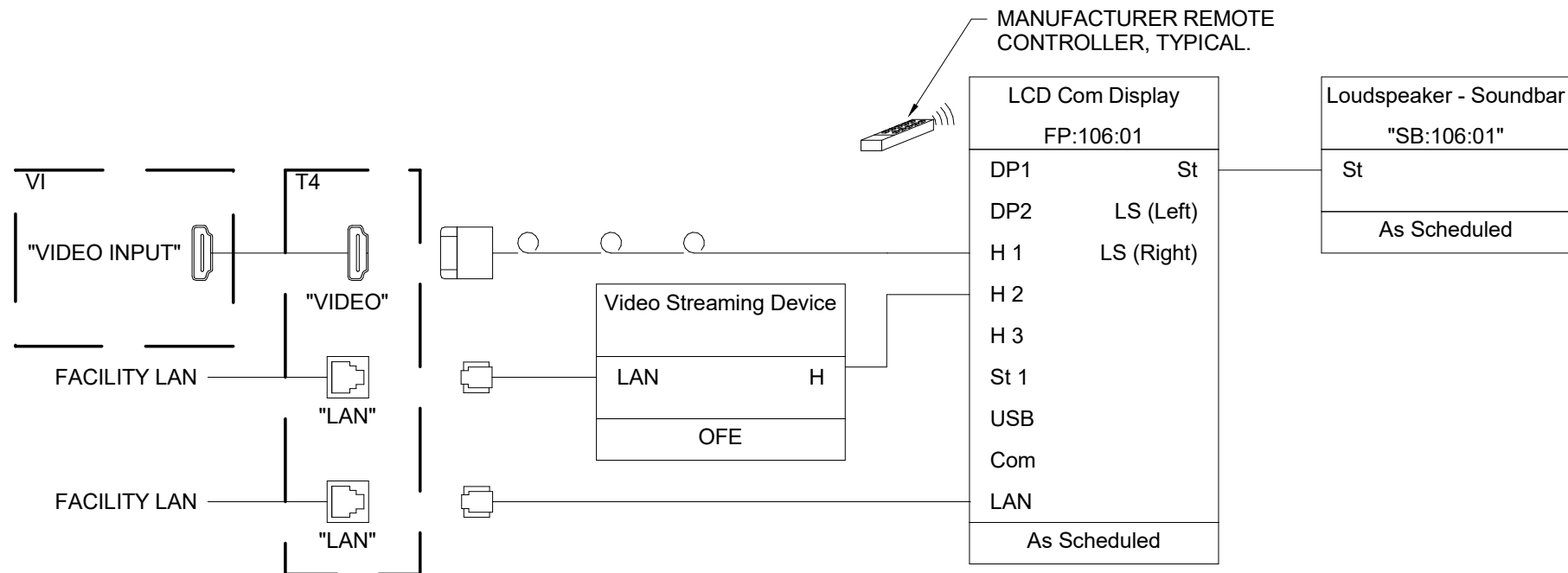


A1 APPARATUS BAY 118 DISPLAY, TYPICAL FP:118:01 SHOWN

NOT TO SCALE

NOTES:

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

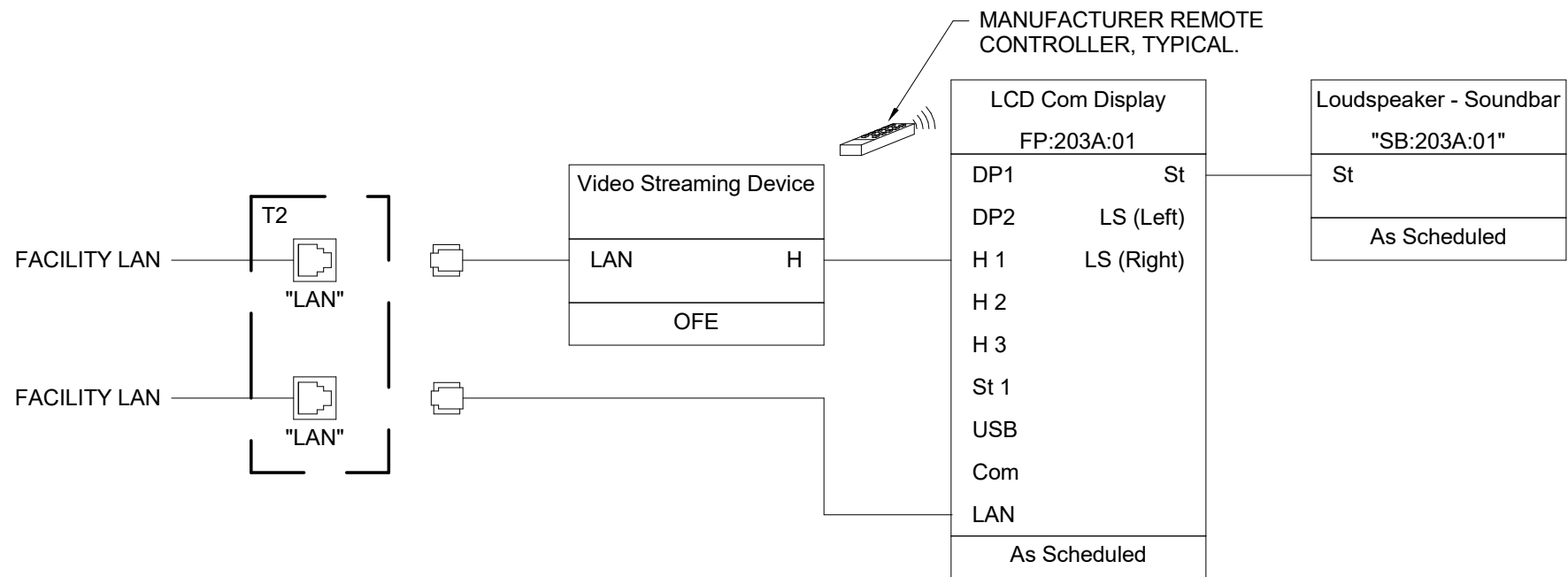


B4 SINGLE DISPLAY WITH LOCAL HDMI, TYPICAL TRAINING/SMALL CONFERENCE ROOM 106 SHOWN

NOT TO SCALE

NOTES:

- SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN, PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:
 - DAY ROOM 117



A4 CAPTAIN'S BUNK 203 DISPLAY

NOT TO SCALE



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LEE'S SUMMIT, MISSOURI 64064

100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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AUDIO-VIDEO SCHEDULES & SIGNAL FLOWS

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TELECOMMUNICATIONS SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED. V2.00

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

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

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

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

TELECOMMUNICATIONS OUTLETS				
SYMBOL	DESCRIPTION	CABLE(S)		DETAIL
		A	B	
▽ 1D	DATA WALL OUTLET	1	0	A3,D5/TN500
▽ 2D	DATA WALL OUTLET	2	0	A3,D5/TN500
▽ 2D, TV	DATA WALL OUTLET FOR AV DISPLAY, MOUNT AT 60" AFF.	2	0	C5/TN500
▽ WAP	DATA WALL OUTLET FOR WIRELESS ACCESS POINT, MOUNT AT 120" AFF.	1	0	A1,E1/TN500
▽ W, 1D	TELEPHONE, VoIP WALL OUTLET	1	0	D7/TN500
▽ 2D,ELEV	DATA WALL OUTLET FOR ELEVATOR	2	0	D5/TN500
⊕ 1D	DAT CEILING OUTLET	0	1	A1,E1/TN500
2D, TYPE "X"	MULTI-SERVICE FLOOR BOX WITH DATA AND POWER OUTLETS, REFER TO ELECTRICAL DRAWINGS FOR FLOOR BOX TYPE	2	0	D1/TN501
TELECOMMUNICATIONS END-POINT DEVICES				
DEVICE SCHEDULE				
SYMBOL	DESCRIPTION	CABLE(S)		DETAIL
		A	B	
Ⓢ RT	PAGING SPEAKER, RECESSED CEILING TILE MOUNT	1	0	C1/TN500
Ⓢ P	PAGING SPEAKER, PENDANT CEILING MOUNT	1	0	C1/TN500
TELECOMMUNICATIONS RESPONSIBILITY MATRIX				
			Furnish	
Description			Construction Team	
General Communications				
Grounding and Bonding			X	
Hangers and Supports			X	
Conduits and Backboxes			X	
Surface Raceways			X	
Underground pathways for utility entrance and floor boxes			X	
Firestops, Conduit Sleeves, and Sleeve Seals			X	
Structured Cabling				
Telecom Room Cabinets, Racks, Frames, and Enclosures			X	
Copper Horizontal Cable and Connectivity			X	
Data Communications				
Router / Firewall				
Core Switch / Edge Switch				
Wireless Access Points				
Servers / Storage and Backup				
Laptops / Desktops / Copiers / Printers / Scanners				
Voice Communications				
VoIP Gateway / Analog handsets				
VoIP handset wall mount kit				
VoIP handsets				
VoIP Network licensing				
Distributed & Monitoring Communications				
Overhead Analog/IP Paging			X	
Electronic Safety and Security				
Conduits and Backboxes for Security systems			X	
Refer to Security drawings for Security Scope				

GENERAL NEW WORK NOTES	
1.	READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS.
2.	ALL WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS (DIVISION 26, DIVISION 27, DIVISION 28, ETC.) AND THE CUSTOMER PRE-ESTABLISHED STRUCTURED CABLING STANDARDS. SHOULD DIFFERENCES EXIST IN THE SPECIFICATIONS RELATING TO TECHNOLOGY AND THE CLIENT'S PRE-ESTABLISHED STANDARDS THE CONTRACTOR SHALL CONTACT THE LOW VOLTAGE ENGINEER FOR CLARIFICATION THROUGH THE RFI PROCESS.
3.	FULLY COORDINATE ALL FIRE STOP CONDUITS / SLEEVES, AND CONDUIT ROUTING WITH STRUCTURAL ELEMENTS. COORDINATE CONDUIT INSTALLATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. ROUTING IN CONCRETE SLAB OR UNDER SLAB (WHERE CONDUIT WOULD BE ON GRADE) REQUIRES THE USE OF WET LOCATION RATED CABLES.
4.	ALL TELECOMMUNICATIONS CONTINUOUS PATHWAYS SHALL BE BONDED TO THE TELECOMMUNICATIONS BONDING BACKBONE; FOR CONDUITS, INSULATION BUSHINGS SHALL BE USED AT THE END OF THE CONDUIT THE FARTHEST AWAY FROM THE SERVING TR; A BONDING BUSHING SHALL BE USED AT THE END CLOSEST TO THE SERVING TR. CONTRACTOR TO REFER TO THE ANSI-STD-J 607 STANDARD FOR ADDITIONAL INFORMATION AS TO THE INSTALLATION OF THE TELECOMMUNICATIONS BONDING BACKBONE.
5.	ALL FIRE RATED WALL / FLOOR ASSEMBLIES PENETRATED FOR TELECOMMUNICATIONS CABLING PATHWAYS SHALL BE FIRE STOPPED WITH THE APPROVED FIRE STOP SYSTEMS (FIS). ALL FIRESTOP SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER AND AS SPECIFIED IN DIVISION 07 07 84 00 - "FIRES TOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM.
6.	BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALLS SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, AND GC PRIOR TO ORDERING THE PRECAST WALLS.
7.	ROUTING OF CABLES SHALL BE CONCEALED. CABLES SHALL BE ROUTED IN CONDUIT IN EXPOSED AREAS. MINIMIZE AMOUNT OF EXPOSED CONDUIT BY EMBEDDING CONDUIT IN SLAB WHEN POSSIBLE. EMBEDDED CONDUITS AND PENETRATIONS OF STRUCTURE SHALL FOLLOW DETAILS IN STRUCTURAL DRAWINGS. WHEN CONDUITS CAN ONLY BE INSTALLED EXPOSED, NOTIFY ARCHITECT PRIOR TO START OF INSTALLATION OF CONDUITS. CABLES SHALL BE ROUTED IN CONDUIT WHEN ABOVE HARD CEILINGS. CONDUITS FOR ELEVATOR PHONES AND FIRE ALARM CONTROL PANEL SHALL BE CONTINUOUS (HOMERUN) FROM THE TELECOMMUNICATIONS ROOM TO THE APPLICABLE BOX / CABINET. CONTRACTOR SHALL SIZE AND PROVIDE CONDUITS TO MEET TIA-569.
8.	TELECOMMUNICATIONS ROOMS SHALL BE DEDICATED FOR INFORMATION TECHNOLOGY USE (I.E. NO SHARED SPACE WITH A JANITOR, FIRE ALARM SYSTEM, ETC.) NO SERVICES SHALL PASS THROUGH THE SPACE UNLESS DEDICATED TO THE SPACE (NO PLUMBING, MECHANICAL, ELECTRICAL, FIRE, ETC.)
HATCHING LEGEND	
ENLARGED PLAN	
NOT IN SCOPE (NIS)	



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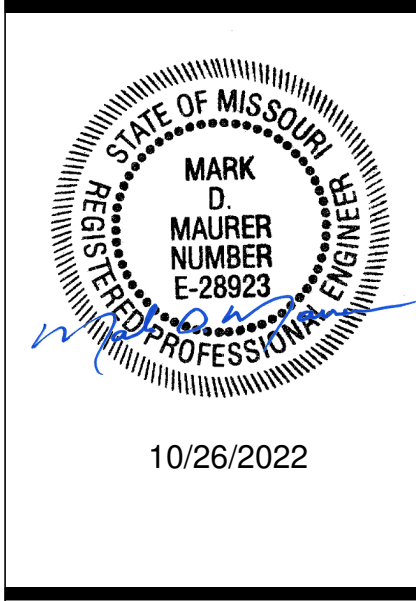
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TECHNOLOGY GENERAL NOTES

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MARK D. MAURER

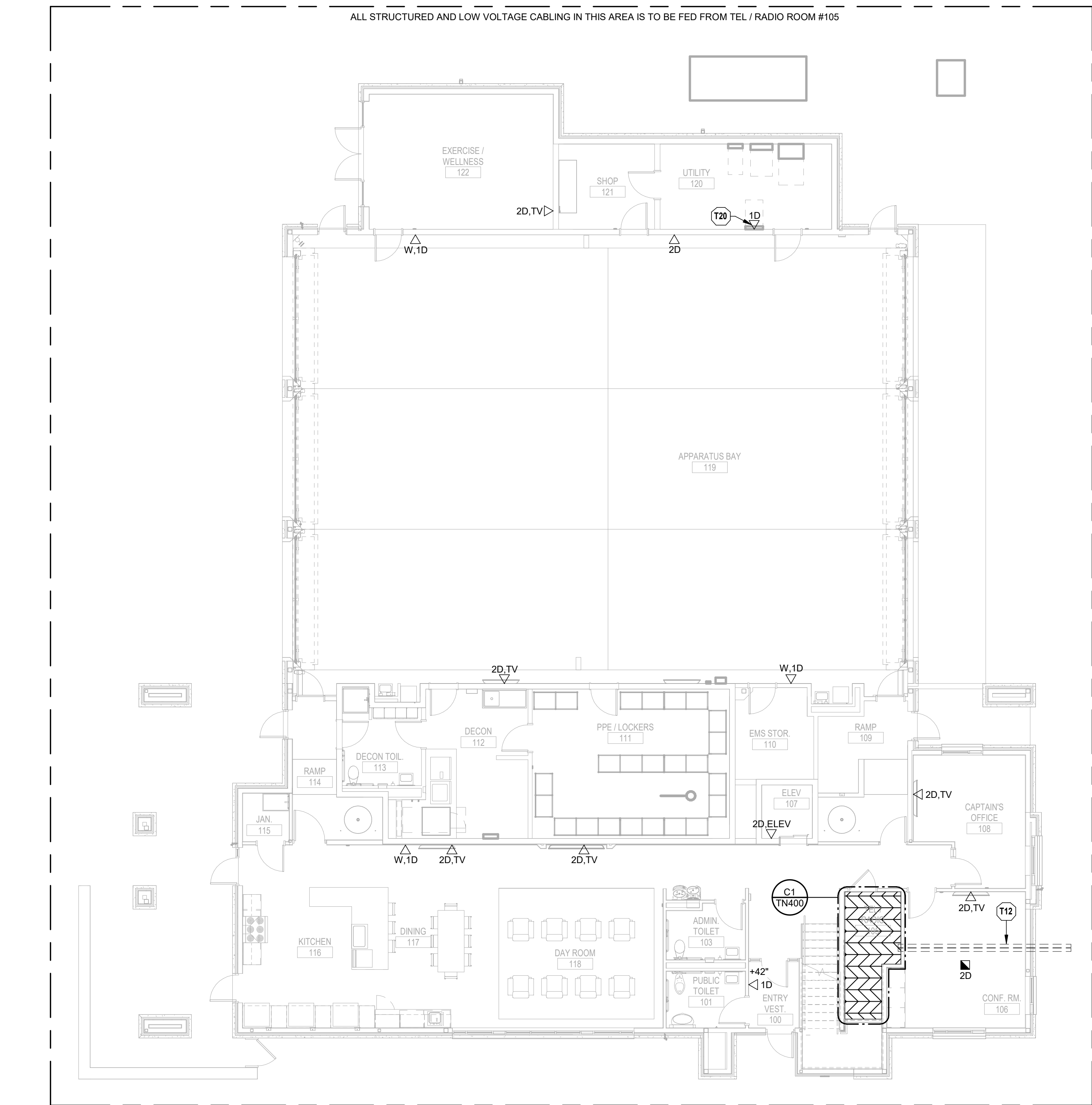
E

D

C

B

A



(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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**FIRE STATION #5
CITY OF LEE'S SUMMIT**
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#	Description	Date
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STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
MARK D. MAURER
NUMBER E-28923
10/26/2022

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

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**TECHNOLOGY
LEVEL 1 PLAN**

TN101

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WWW.HENDERSONENGINEERS.COM
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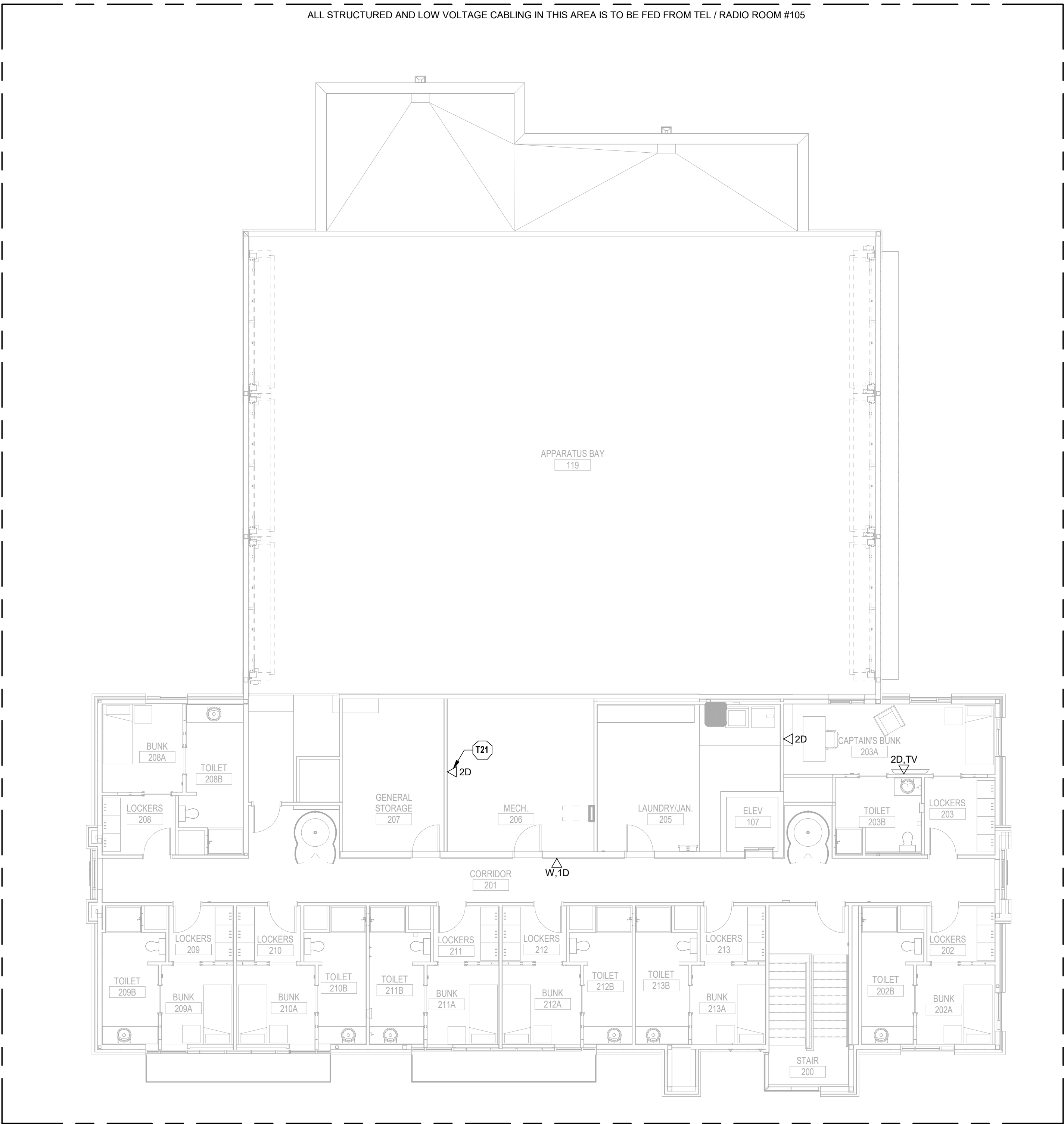
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TECHNOLOGY
LEVEL 2 PLAN

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'

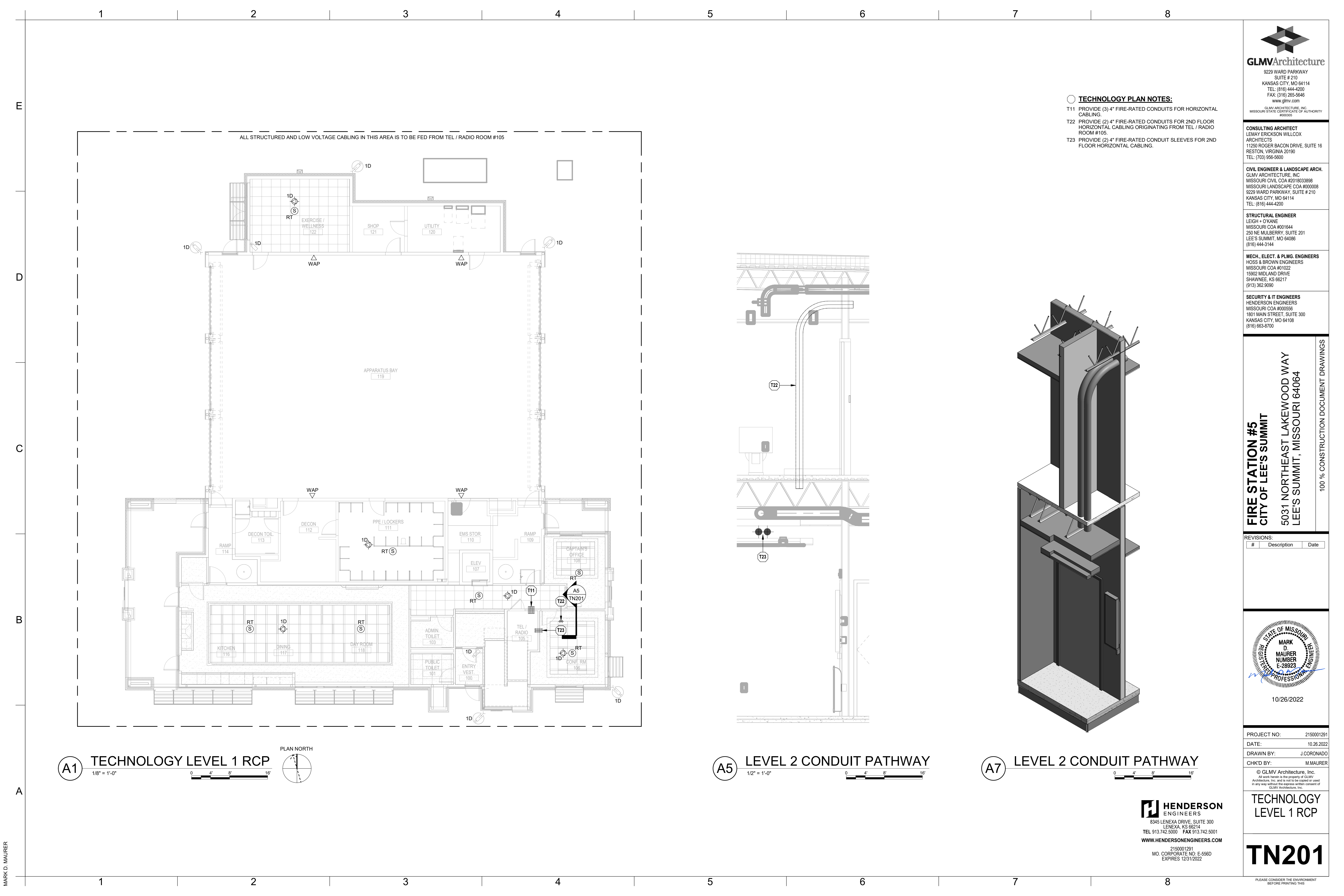
PLAN NORTH



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TECHNOLOGY LEVEL 1 RCP

TN201

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MARK D. MAURER

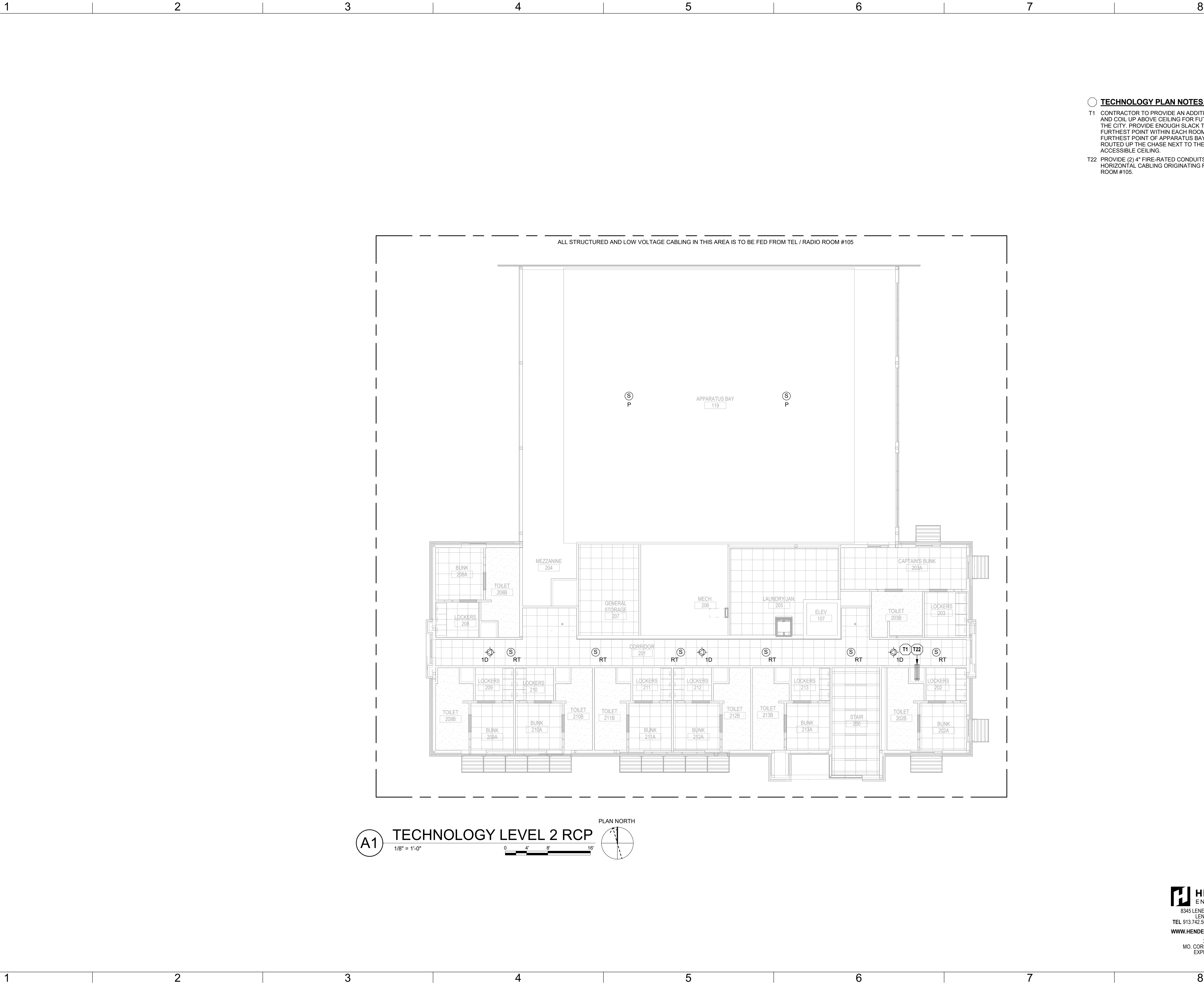
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- TECHNOLOGY PLAN NOTES:**
- T1 CONTRACTOR TO PROVIDE AN ADDITIONAL 30 DATA CABLES AND COIL UP ABOVE CEILING FOR FUTURE TERMINATION BY THE CITY. PROVIDE ENOUGH SLACK TO REACH THE FURTHEST POINT WITHIN EACH ROOM SPECIFICALLY FURTHEST POINT OF APPARATUS 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.

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NUMBER E-28923
10/26/2022

PROJECT NO: 2150001291
DATE: 10.26.2022
DRAWN BY: J.CORONADO
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TECHNOLOGY
LEVEL 2 RCP

TN202

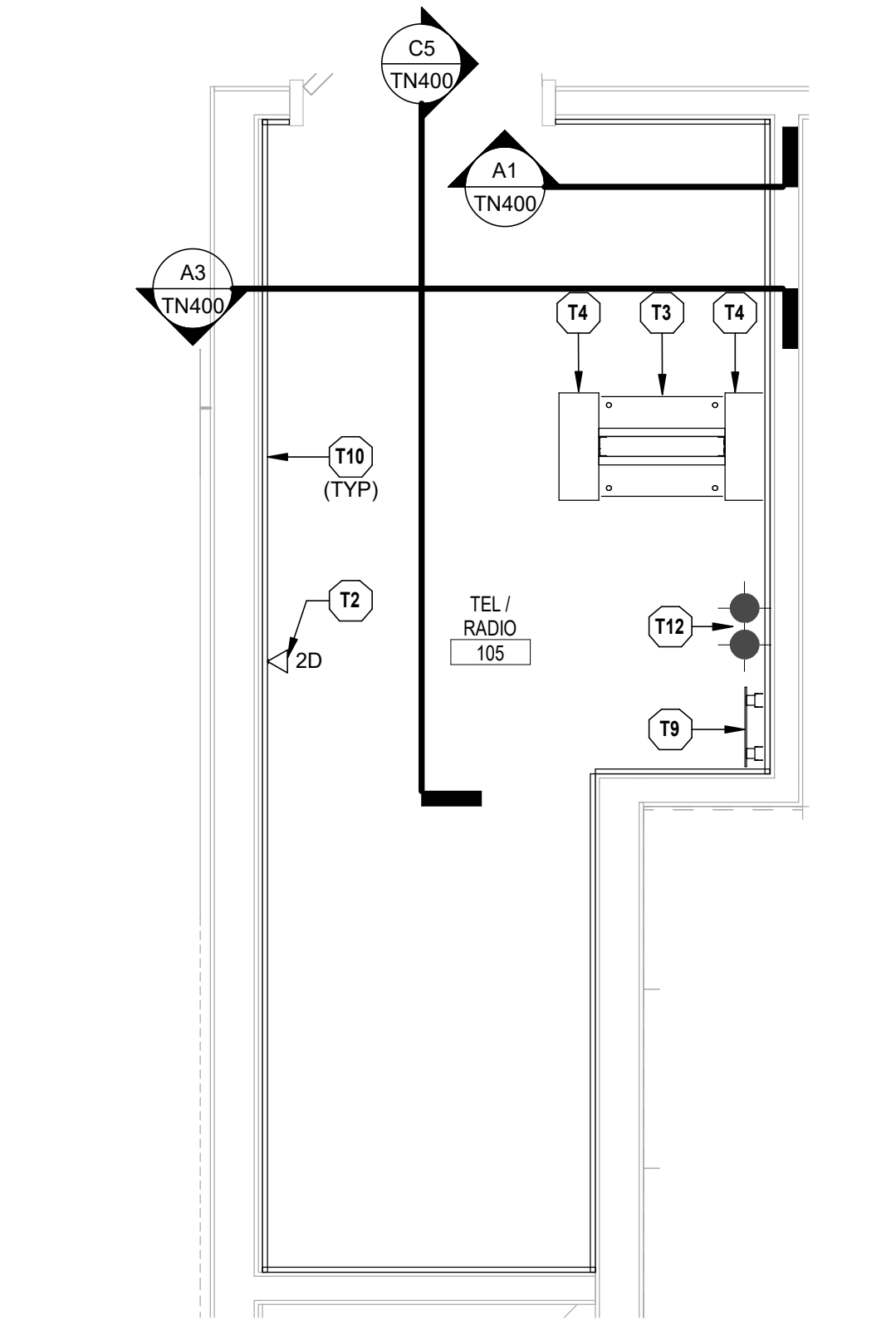
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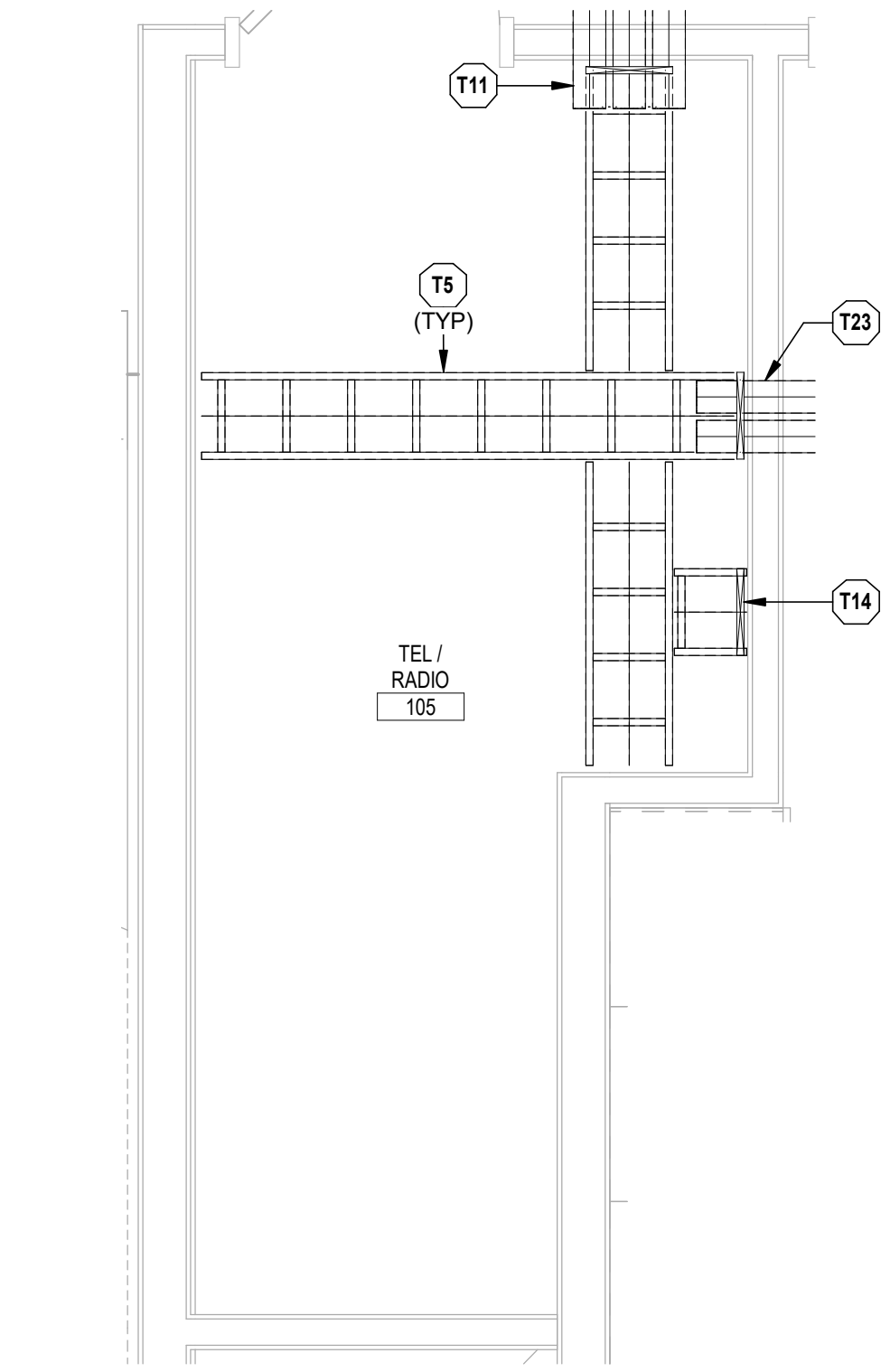
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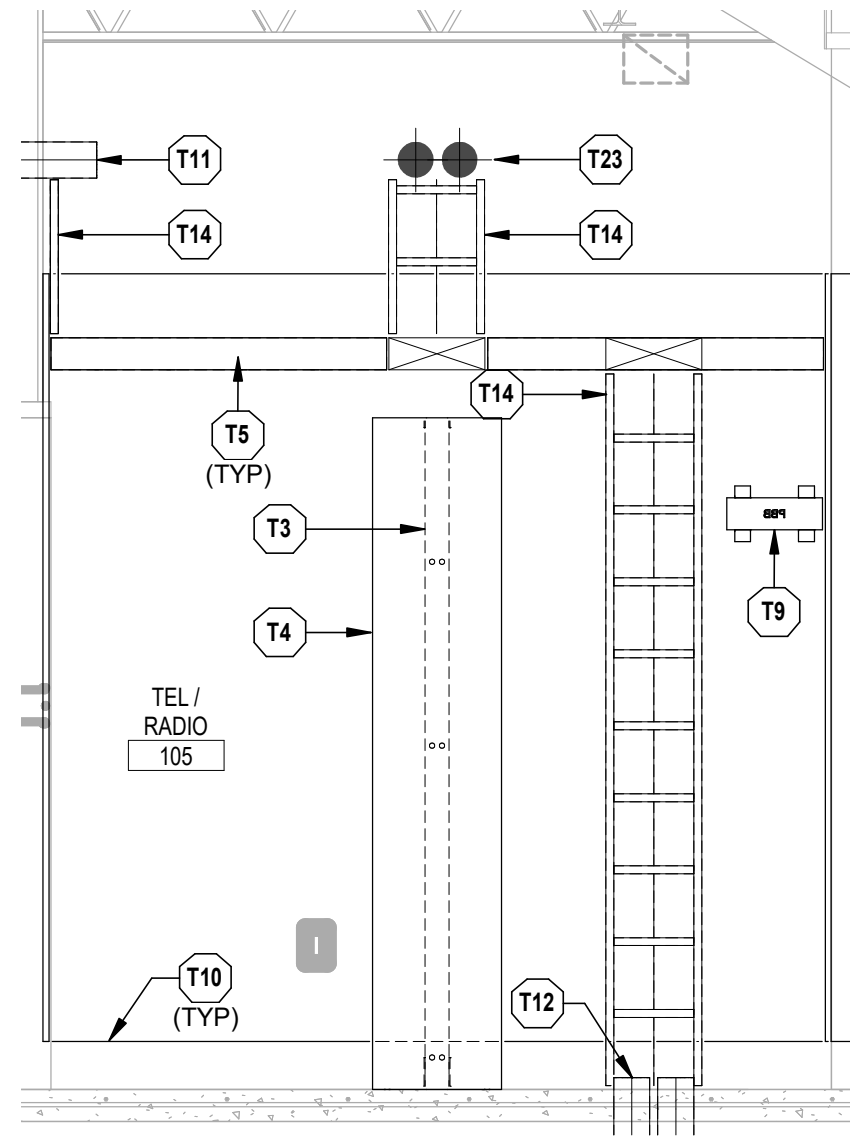
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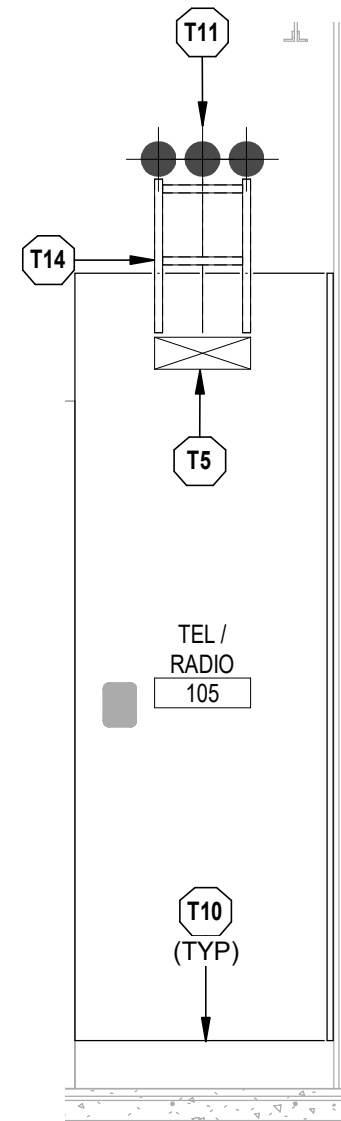
C1 TEL/RADIO #105 - ENLARGED PLAN
1/2" = 1'-0"



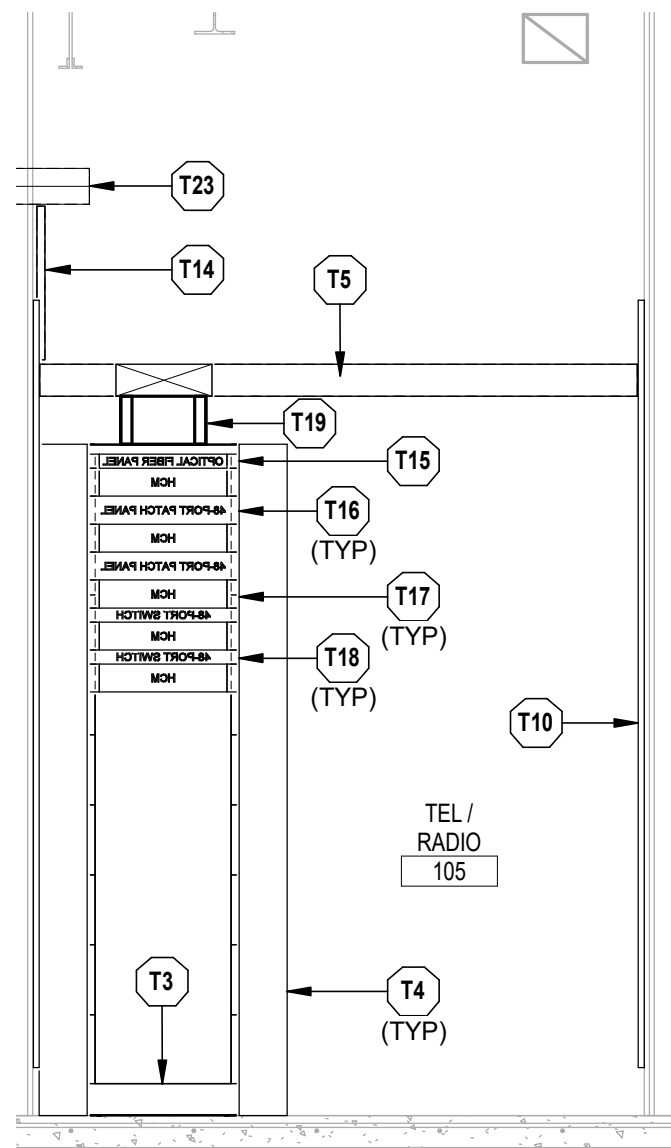
C3 TEL/RADIO #105 - PATHWAY PLAN
1/2" = 1'-0"



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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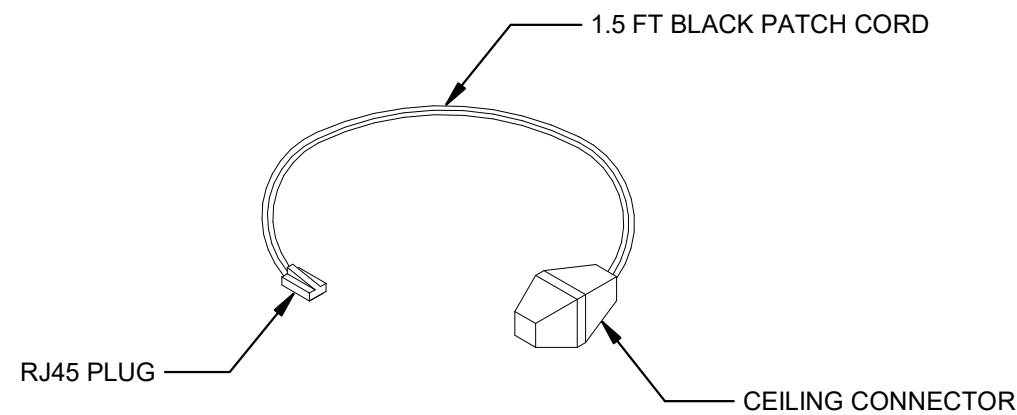
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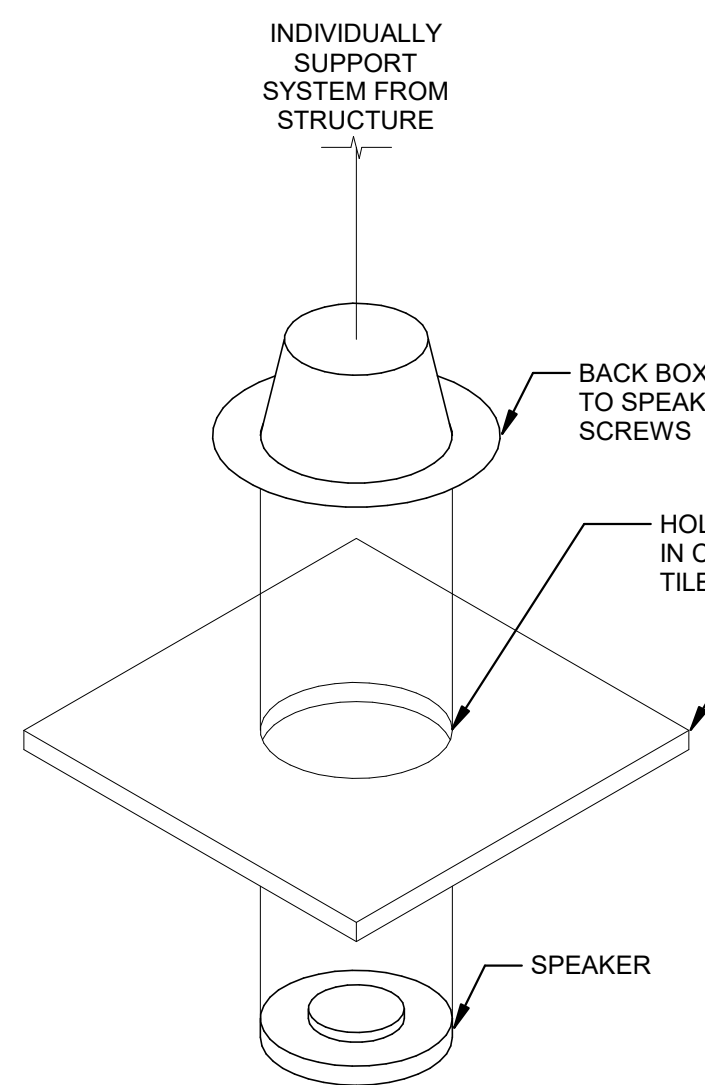
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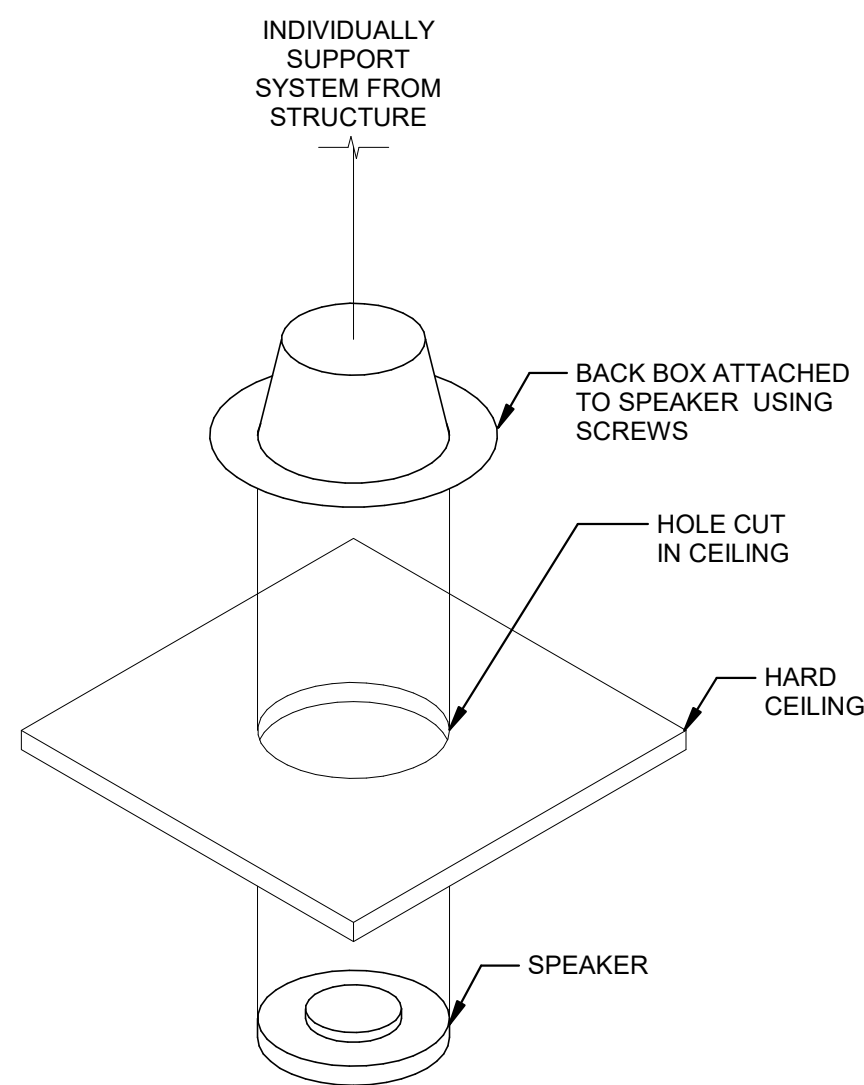
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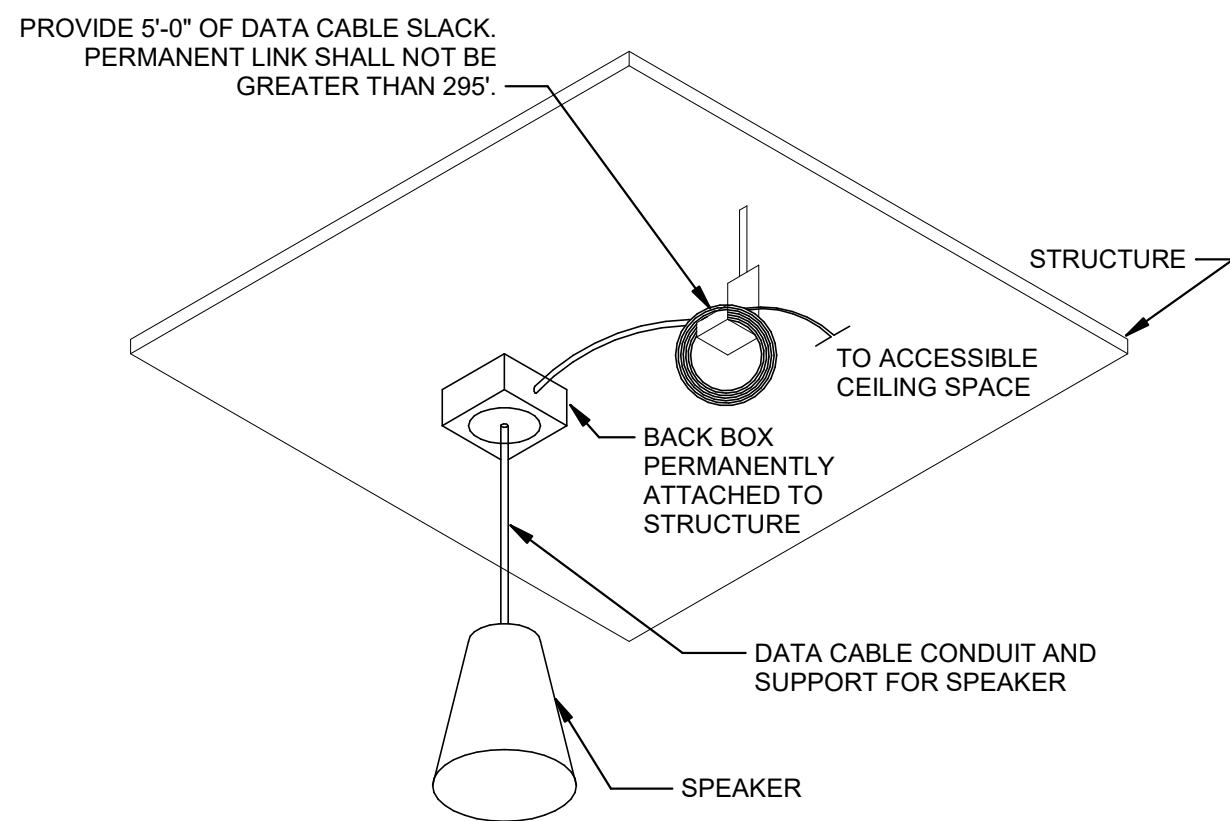
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NOT TO SCALE



PAGING SPEAKER FOR ACCESSIBLE CEILING



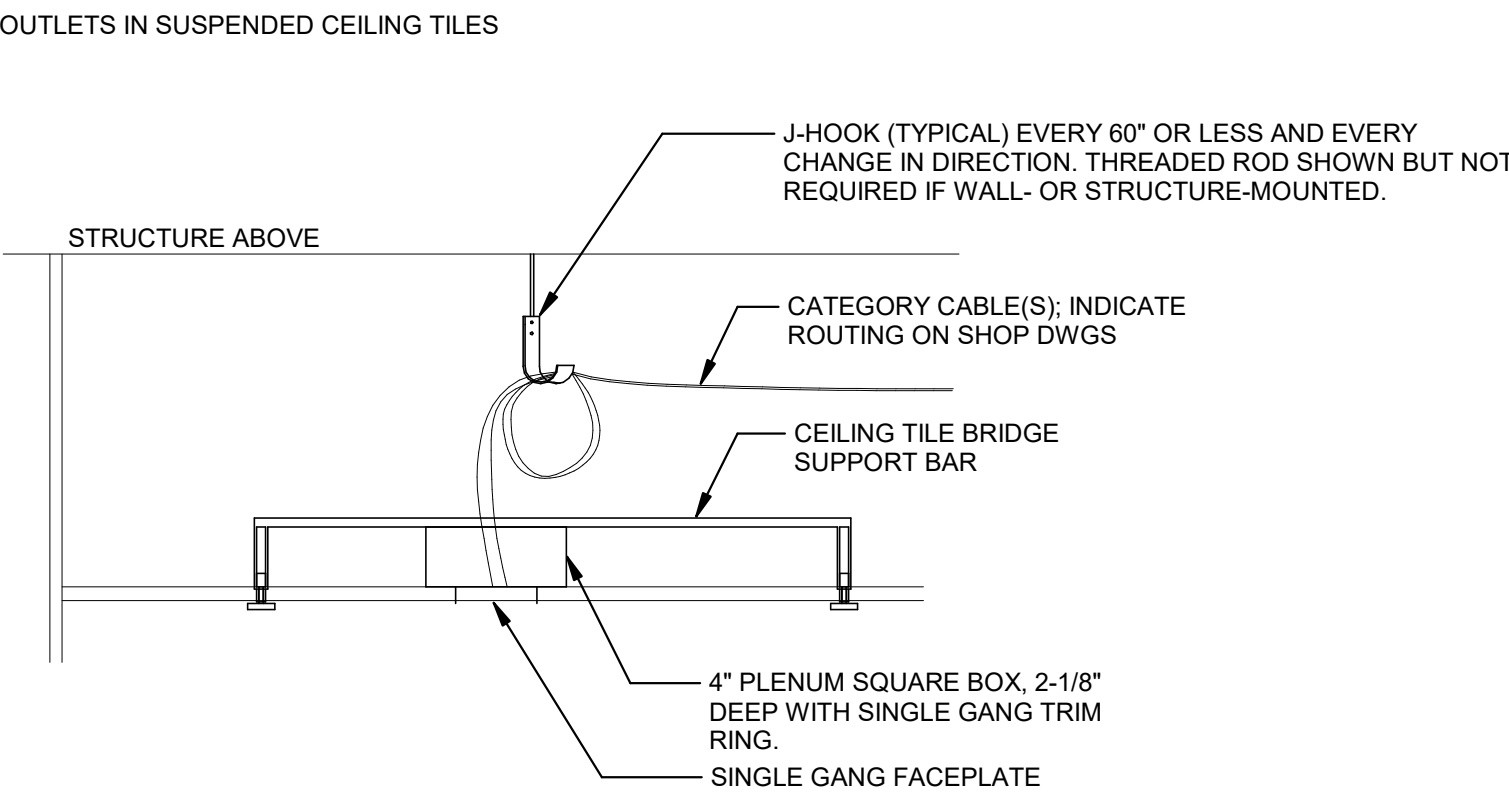
PAGING SPEAKER FOR HARD CEILING



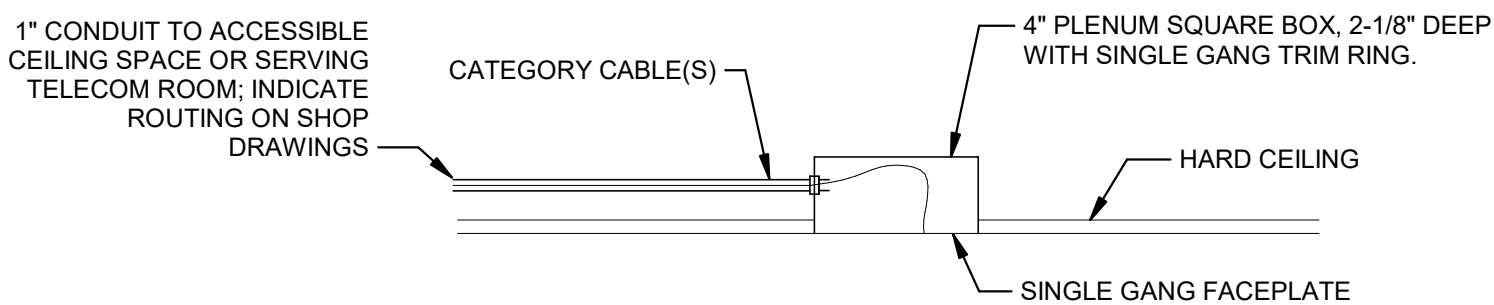
PAGING SPEAKER FOR EXPOSED CEILING

C1 SPEAKER INSTALLATION
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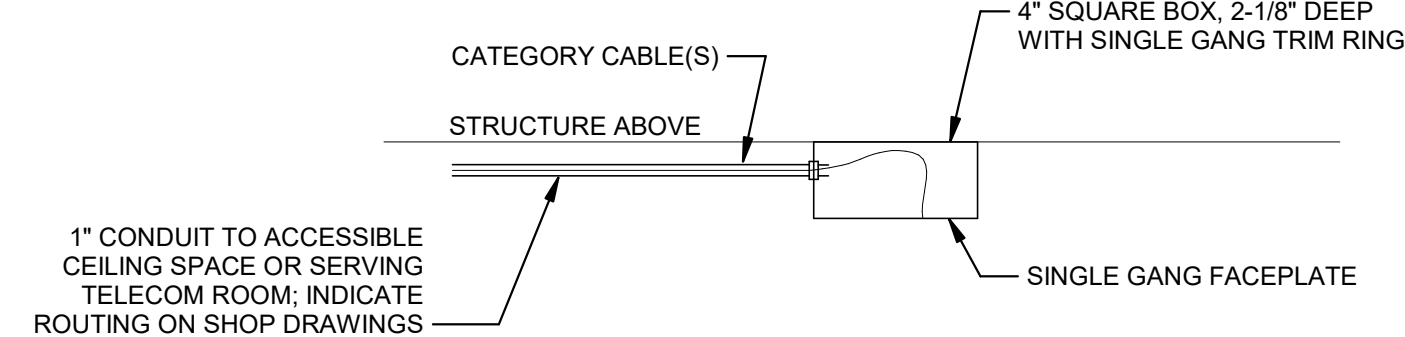
FOR OUTLETS IN SUSPENDED CEILING TILES



FOR OUTLETS IN GYPSUM BOARD CEILINGS

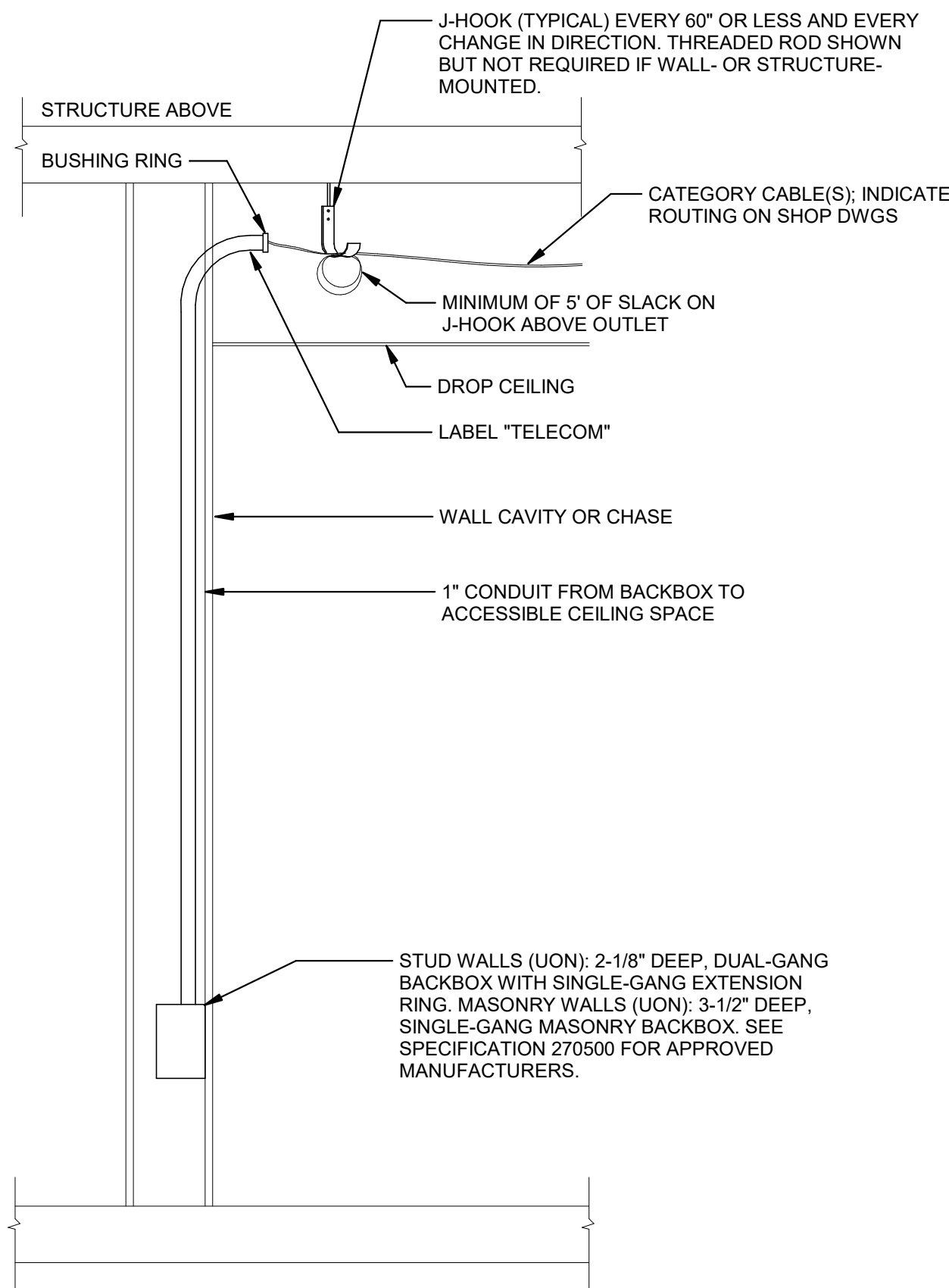


FOR OUTLETS IN EXPOSED TO STRUCTURE AREAS

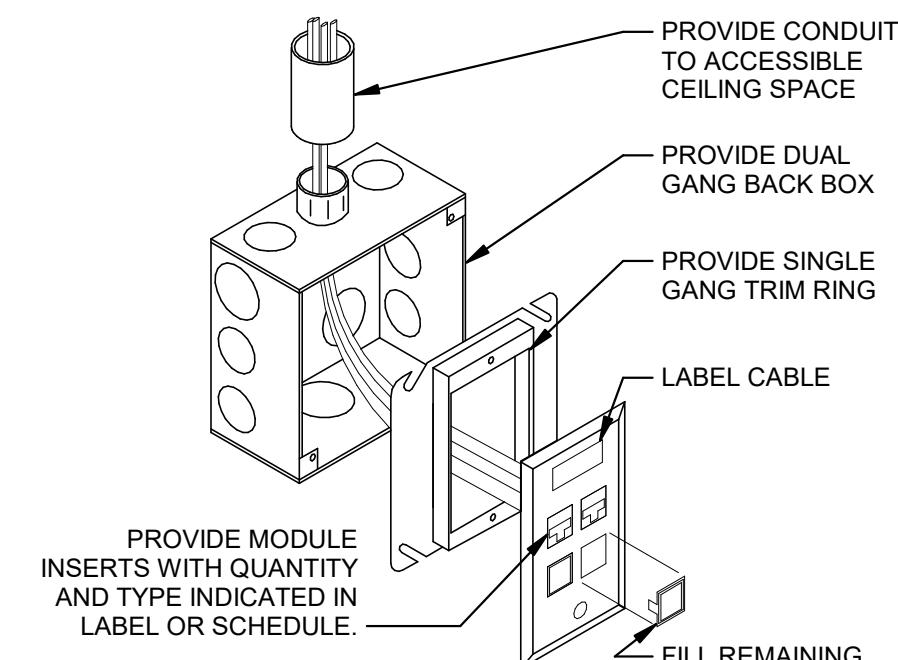


A1 CEILING COMM OUTLET 2D
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A3 COMMUNICATIONS OUTLET MOUNTING
NOT TO SCALE

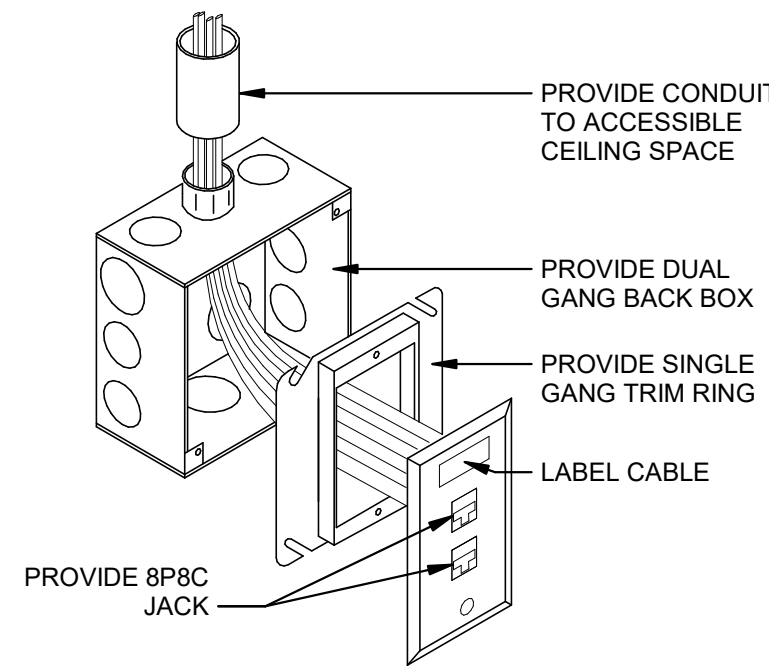


FOR COMMUNICATIONS OUTLETS WITH 4 OR LESS JACKS/MODULES



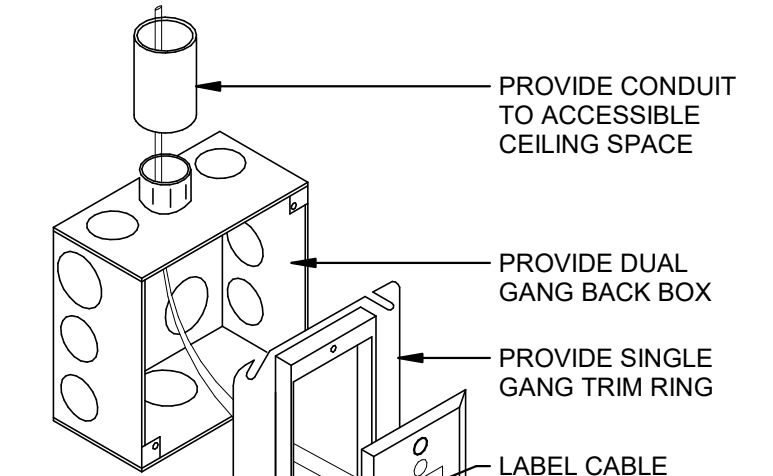
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D5 SINGLE GANG COMM OUTLET (3D)
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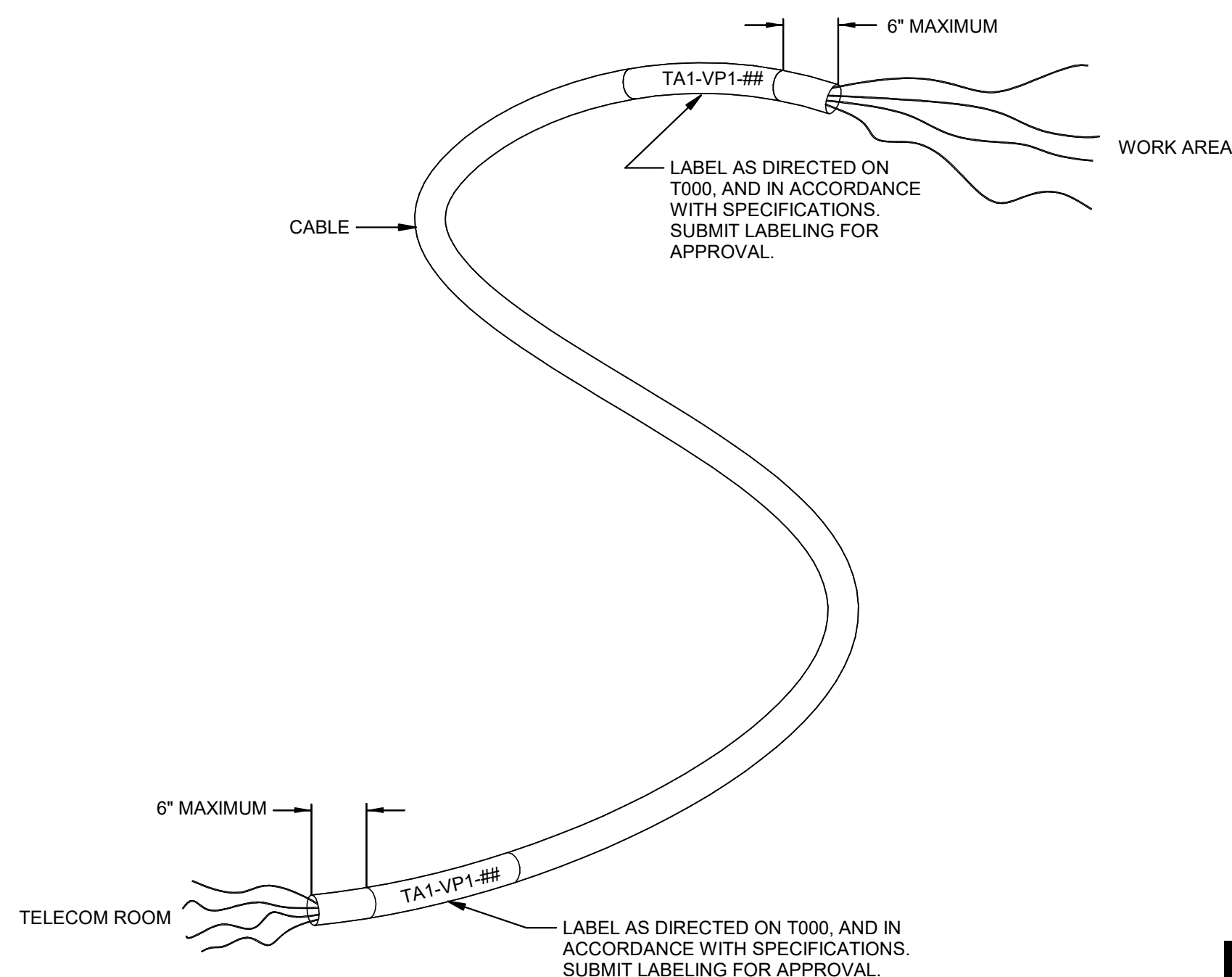
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C5 SINGLE GANG COMM OUTLET FOR DISPLAY (3D)
NOT TO SCALE



(SYMBOL $\nabla \begin{smallmatrix} W \end{smallmatrix}$)

D7 WALL PHONE OUTLET (3D)
NOT TO SCALE



A6 LABELING OF HORIZONTAL CABLE
NOT TO SCALE

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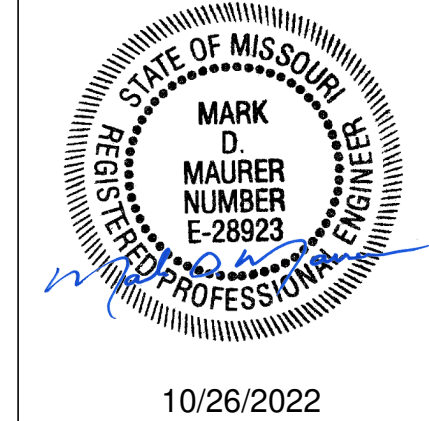
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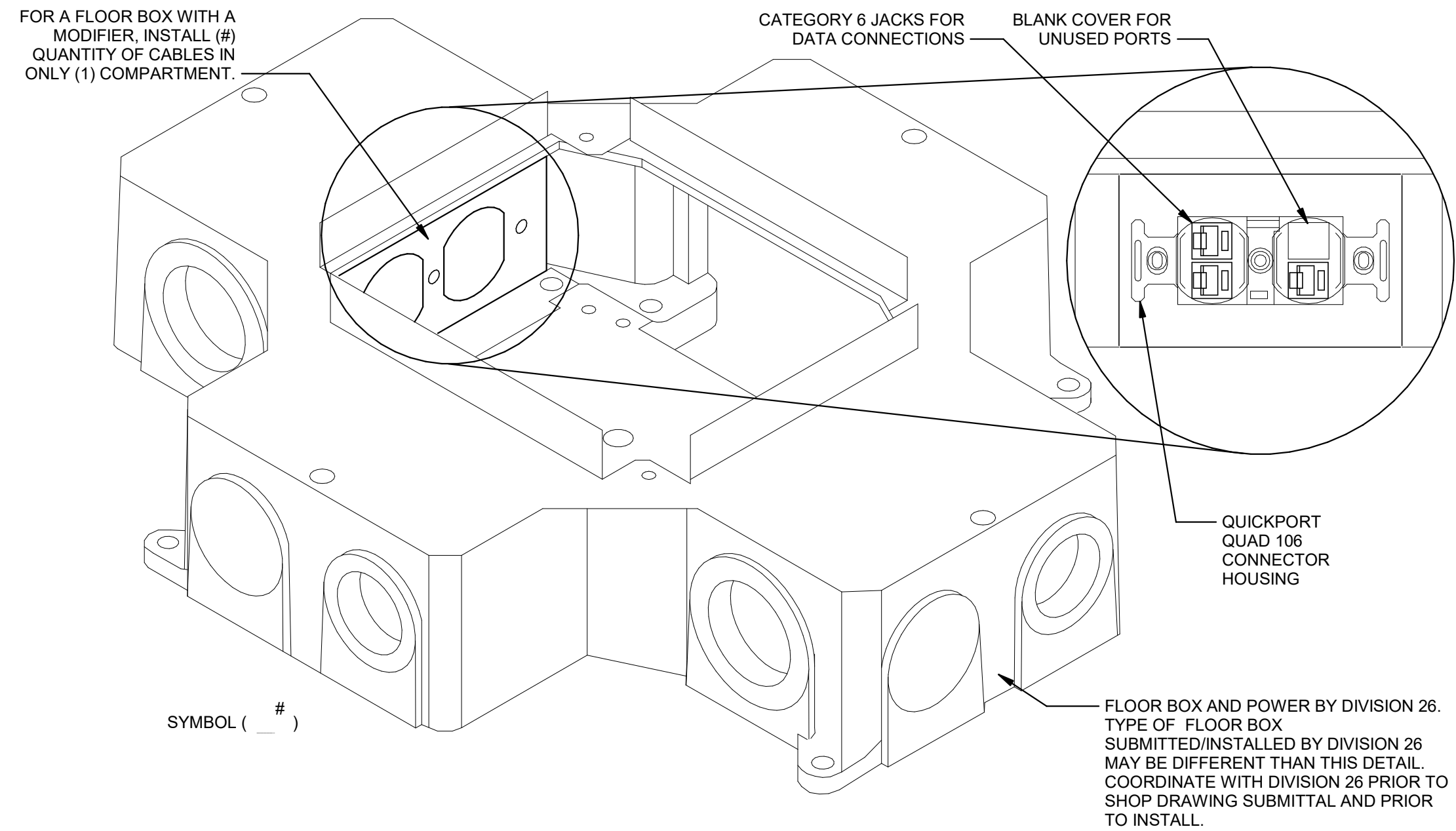
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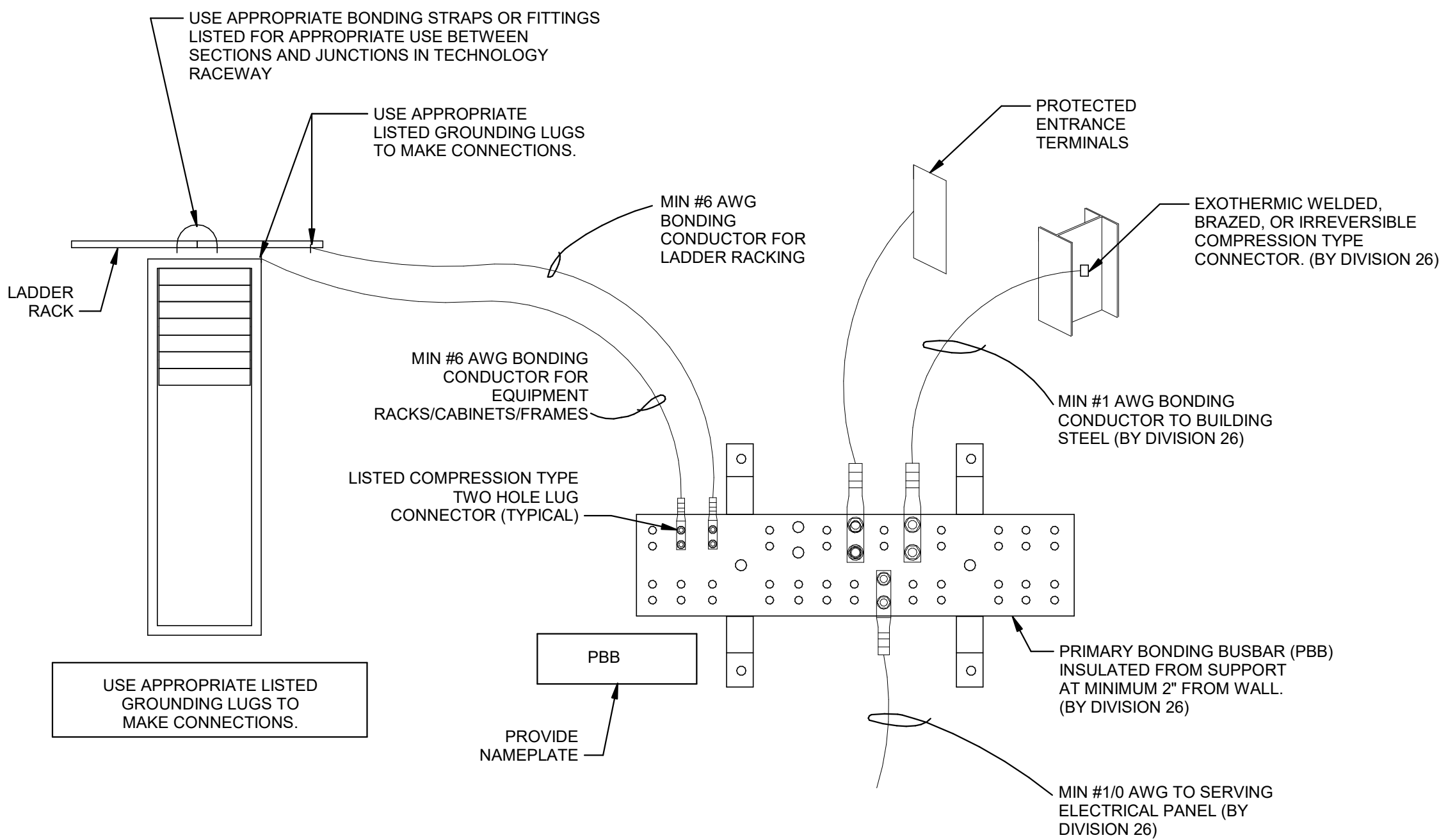
TECHNOLOGY DETAILS

TN500

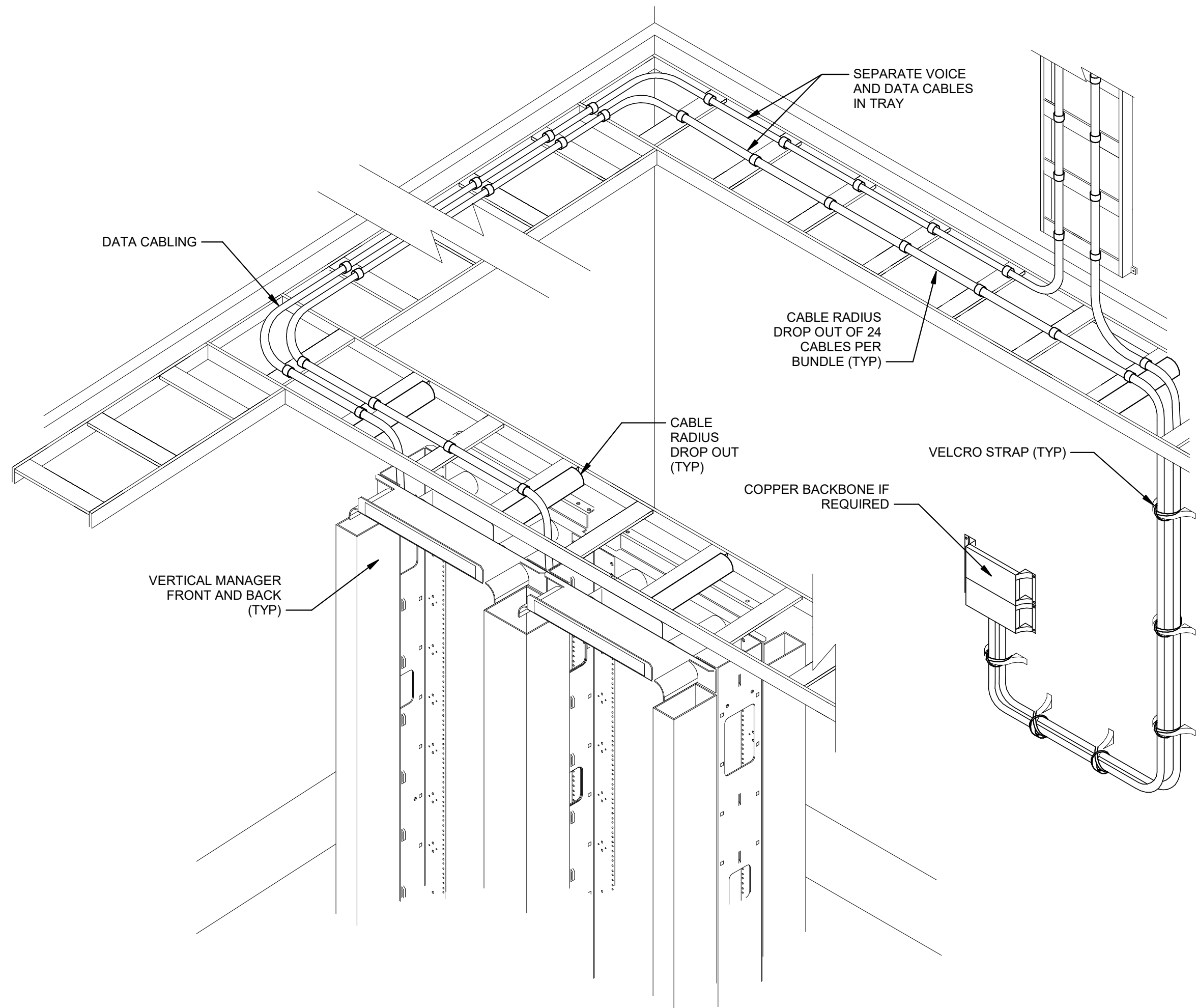
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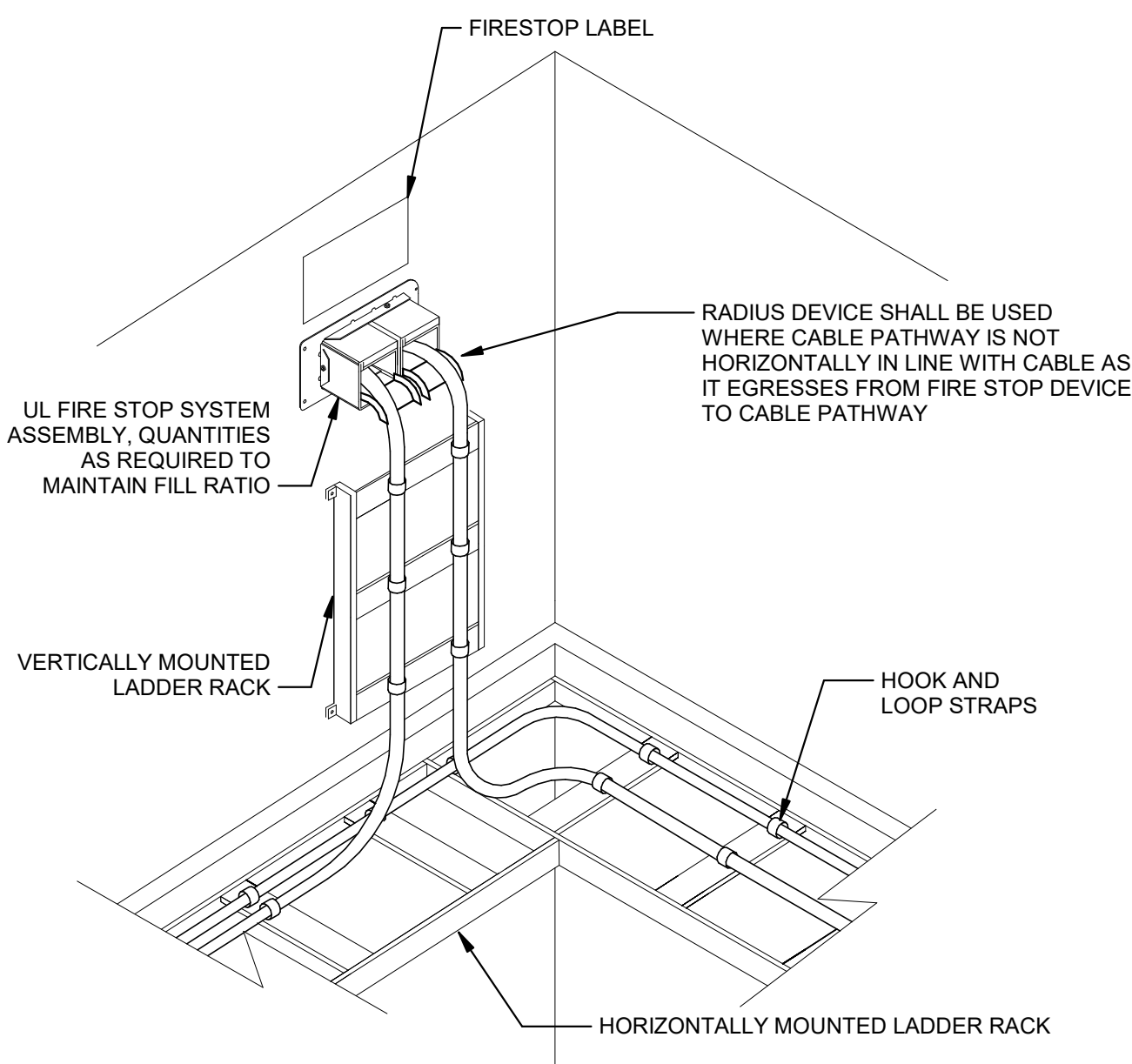
D1 FLOOR BOX
NOT TO SCALE



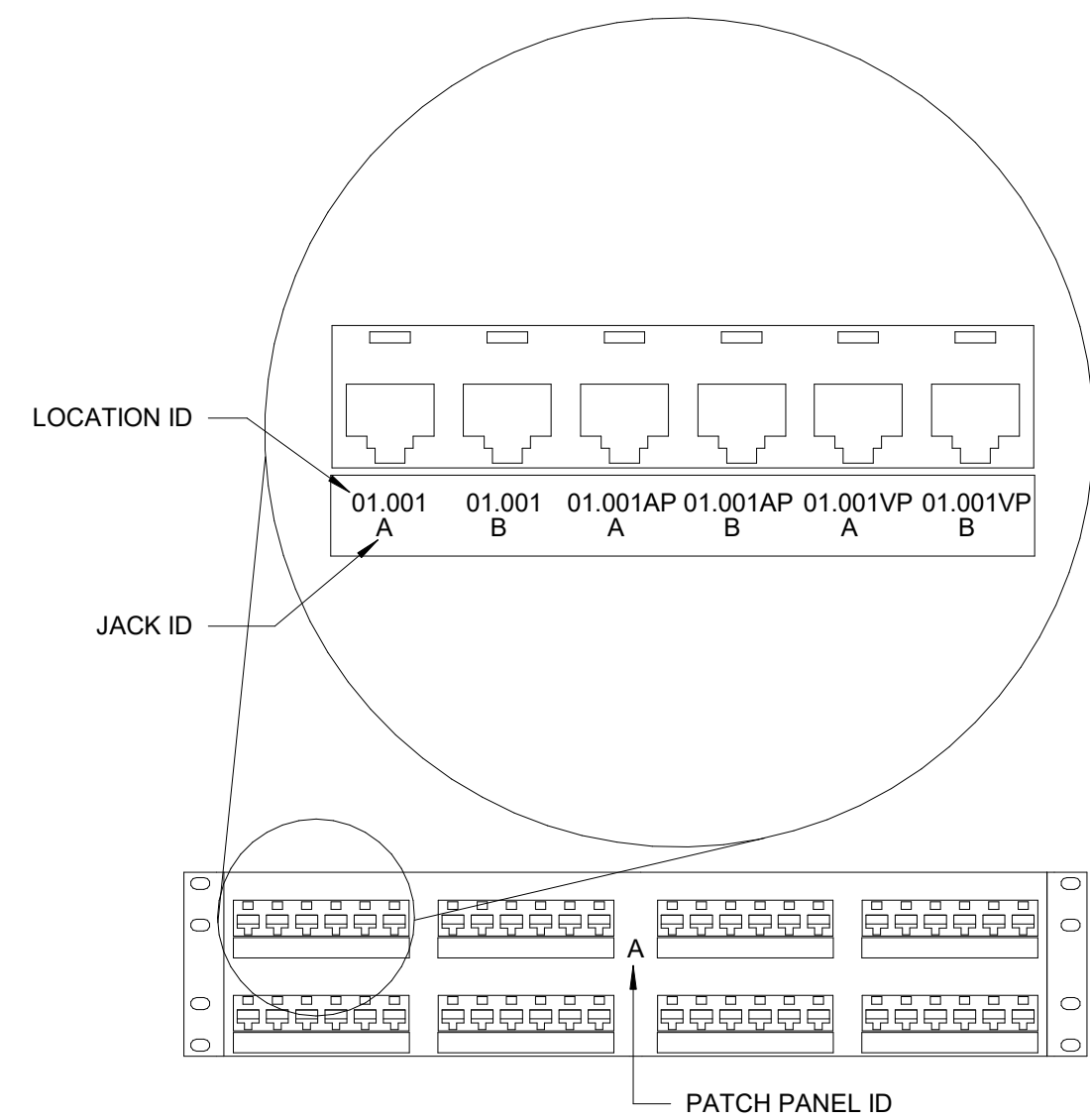
D5 PBB CONNECTIONS DIAGRAM
NOT TO SCALE



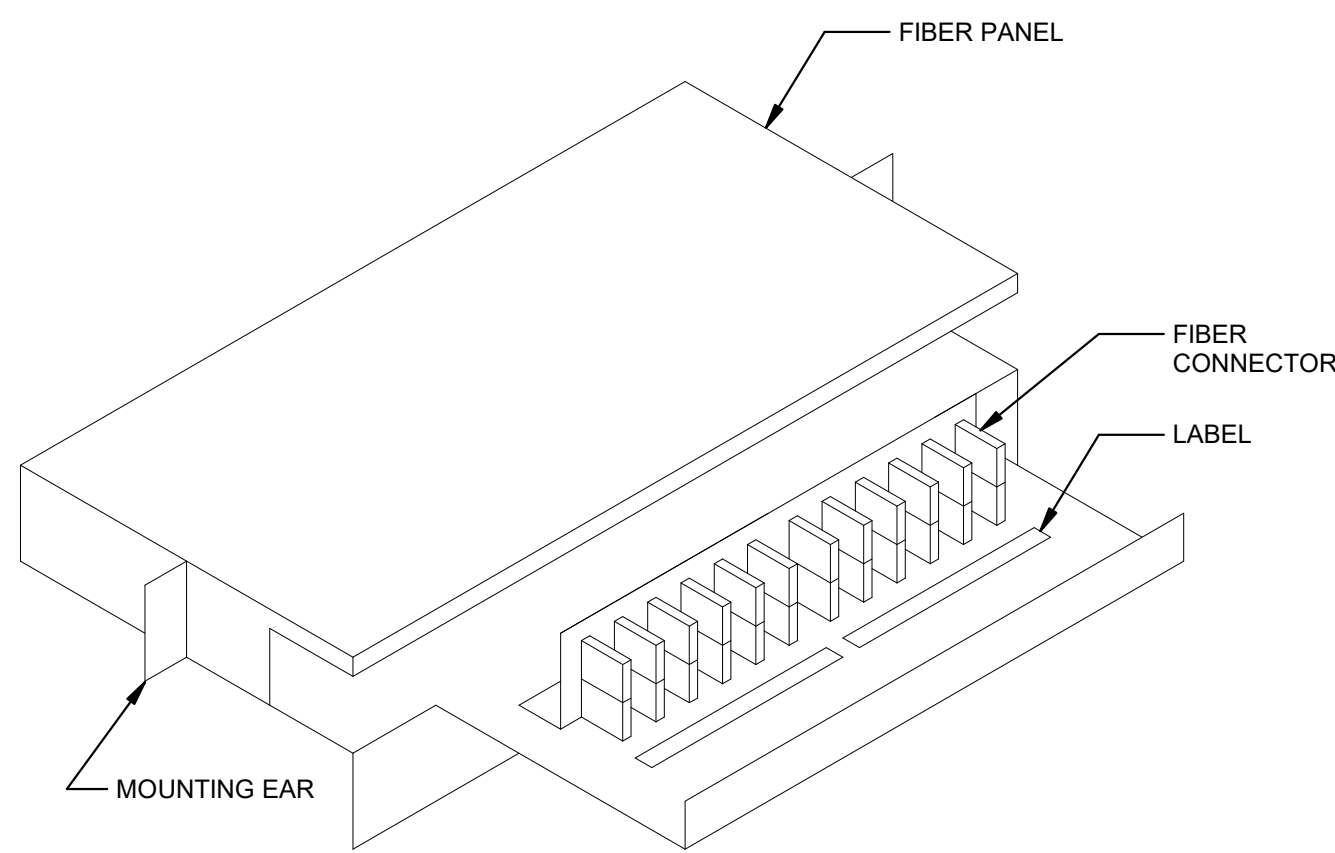
A1 TELECOM ROOM TRAY ALIGNMENT, BEND RADIUS TREATMENT
NOT TO SCALE



B4 FIRE STOP SYSTEM
NOT TO SCALE



B7 TYPICAL PATCH PANEL LABELING DETAIL
NOT TO SCALE



A4 FIBER PANEL
NOT TO SCALE

FILE PATH: B:\360-1182252\FireStation_#4 and #5\2150001291.LSNO FIRE STAION_#5 v19.rvt
MARK D. MAURER

E

D

C

B

A

SECURITY SYMBOLS										V2.1					
THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.			SECURITY SYMBOLS			CAMERA TYPE SCHEDULE									
STANDARD MOUNTING HEIGHTS															
INTERCOM (OPERABLE PART)		48"			AREA OF REFUGE CALL BOX	TYPE		FORM FACTOR	DESCRIPTION	LOCATIONS	IMAGER SIZE RESOLUTION	POWER	MODELS	COLOR	COMMENTS
CARD READER (CENTER OR TOP WHERE OPERABLE PARTS EXIST)		48"			PROXIMITY CARD READER	01			VANDAL DOME CAMERA	INDOOR/ OUTDOOR	5MP	POE	AVIGILON H5A	WHITE	DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.
EMERGENCY LOCK RELEASE		48"			CLIENT WORKSTATION WHERE X = NUMBER OF MONITORS	02			360 DEGREE MULTISENSOR CAMERA	OUTDOOR	MULTI-SENSOR	HPOE	AVIGILON 360°	WHITE	DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.
EMERGENCY PHONE (OPERABLE PARTS)		48"													
DEFAULT MOUNTING HEIGHTS SHOWN ABOVE WHERE NO CALL-OUT IS PROVIDED. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG). ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.															
ABBREVIATIONS										CARD READER TYPE SCHEDULE					
A AMPS		KVM KEYBOARD VIDEO MOUSE SWITCH			DOOR ANNUNCIATOR	TYPE		FORM FACTOR	TECHNOLOGY	LOCATIONS	READ RANGE	POWER	MODELS	COLOR	COMMENTS
ACP ACCESS CONTROL PANEL		LAN LOCAL AREA NETWORK			DOOR BELL (PB) PUSH BUTTON (CH) CHIME	01			RFID	INDOOR/ OUTDOOR		PANEL	HID SIGNO 40	BLACK	DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.
ADA AMERICANS WITH DISABILITIES ACT		LED LIGHT-EMITTING DIODE			DOOR POSITION SWITCH ONLY SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE	02			RFID	INDOOR/ OUTDOOR		PANEL	HID SIGNO 20	BLACK	DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.
AFC ABOVE FINISHED CEILING		LF LINEAR FEET			DOOR POSITION SWITCH AND LATCHBOLT MONITOR SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE										
AFF ABOVE FINISHED FLOOR		MBS MAINTENANCE BYPASS SWITCH			ELECTRIFIED LOCKING DEVICE, REQUEST TO EXIT, DOOR POSITION SWITCH, AND LATCH BOLT MONITOR SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE										
AFG ABOVE FINISHED GRADE		MDF MAIN DISTRIBUTION FRAME			ELECTRIFIED LOCKING DEVICE SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE										
AHJ AUTHORITY HAVING JURISDICTION		MFR MANUFACTURER			EMERGENCY PHONE										
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE		MH MAINTENANCE HOLE			GLASS BREAK DETECTOR										
AV AUDIO-VIDEO		MM MULTIMODE			INTERCOM (CR) WITH CARD READER (DS) DOOR STATION (RS) RECEIVING (MASTER) STATION (VS) VIDEO STATION										
AWG AMERICAN WIRE GAUGE		MPOE MAIN POINT OF ENTRANCE			INMATE PHONE										
BAS BUILDING AUTOMATION SYSTEM		MPOP MAIN POINT OF PRESENCE MOUNTED			KEYPAD (ID) INTRUSION DETECTION SYSTEM (AC) ACCESS CONTROL										
BD BUILDING DISTRIBUTOR		N/A NOT APPLICABLE			LIGHTING CONTROL RELAYS										
BDF BUILDING DISTRIBUTION FRAME		NEG NATIONAL ELECTRICAL CODE			MOTION DETECTOR										
BFC BELOW FINISHED CEILING		NIC NOT IN CONTRACT			PANIC ALARM THREE-COLOR INDICATOR LIGHT										
BR BIOMETRIC READER		nm NANOMETER			PANIC/DURESS BUTTON										
C CONDUIT		NRTL NATIONALLY RECOGNIZED TESTING LAB			REQUEST-TO-EXIT PUSH PAD										
CAT CATEGORY		NVR NETWORK VIDEO RECORDER			REMOTE UNLOCK/OPEN BUTTON										
CC CENTRAL CONTROL		OC ON CENTER			MICROPHONE STATUS LIGHT, WALL MOUNT										
CCTV CLOSED CIRCUIT TELEVISION		OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION			MICROPHONE										
CD CAMPUS DISTRIBUTOR		OSP OUTSIDE PLANT			MICROPHONE MUTE ILLUMINATED SWITCH										
CMP COMMUNICATIONS PLENUM JACKET		POE POWER OVER ETHERNET			SPEAKER (DOOR BELL)										
CMR COMMUNICATIONS RISER JACKET		PON PASSIVE OPTICAL NETWORK			PAGING SPEAKER										
(D) REMOTE DEVICE		QTY QUANTITY			VAULT MONITOR										
DAS DISTRIBUTED ANTENNA SYSTEM		(R) RELOCATED EXISTING DEVICE			WATER CONTROL VALVE VALVE BY DIVISION 22. CONTROL BY DIVISION 28										
dB DECIBELS		(RE) REMOVE EXISTING DEVICE AND INSTALL AT ANOTHER LOCATION, SEE (R)			WATCH TOUR										
DCS DOOR CONTROL SYSTEM		RMCD REMOTE MONITORING STATION													
DEMO DEMOLITION		RU RACK UNIT													
DSP DIGITAL SIGNAL PROCESSOR		SCS STRUCTURED CABLING SYSTEM													
DVR DIGITAL VIDEO RECORDER		SF SQUARE FEET													
(E) EXISTING DEVICE		SM SINGLEMODE													
EC ELECTRICAL CONTRACTOR		SP SCRAMBLE PAD													
ECIA ELECTRONIC COMPONENTS INDUSTRY ASSOCIATION		TBD TO BE DETERMINED													
EMI ELECTROMAGNETIC INTERFERENCE		TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION													
EMS ENERGY MANAGEMENT SYSTEM		TGB TELECOMMUNICATIONS GROUND BUS BAR													
EMT ELECTRICAL METALLIC TUBING		TMGB TELECOMMUNICATIONS MAIN													
ER EQUIPMENT ROOM		TR GROUND BUS BAR													
(ETR) EXISTING TO REMAIN		TYP TYPICAL													
(F) DOOR FRAME MOUNTED DEVICE		UNO UNLESS NOTED OTHERWISE													
FAAP FIRE ALARM ANNUNCIATOR		UL UNDERWRITER LABORATORIES, INC.													
FACP FIRE ALARM CONTROL		UPS UNINTERRUPTIBLE POWER SUPPLY													
FD FLOOR DISTRIBUTOR		UPSDP UNINTERRUPTIBLE POWER SUPPLY DISTRIBUTION													
FMC FLEXIBLE METAL CONDUIT		V VOLT(S)													
FOR FIBER OPTIC RACK		VCM VERTICAL CABLE MANAGER													
FS FIRE STOP SYSTEM		VMS VIDEO MANAGEMENT SYSTEM													
FLR FLOOR		WAO WORK AREA OUTLET													
GC GENERAL CONTRACTOR		WP WEATHER PROOF													
(GT) GUARD TOUR		WR WEATHER RESISTANT													
GYP GYPSUM BOARD		WT WATERTIGHT													
HH HAND HOLE		XP EXPLOSION-PROOF													
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			TWO IMAGER CAMERA							
		CONNECTION POINT OF NEW WORK TO EXISTING			PTZ CAMERA			FOUR IMAGER CAMERA							
		DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER			360 CAMERA										
		SECTION CUT DESIGNATION			180 CAMERA										
		DEDICATED EQUIPMENT ACCESS TILE													
		ACCESS PANEL													
LINETYPE LEGEND			MOUNTING TYPE SYMBOLS (APPLIES TO ANY SECURITY DEVICE SYMBOL)												
		EXISTING			CEILING MOUNT										
		DEMOLISH			WALL MOUNT										
		NEW			POLE / BOLLARD MOUNT										
		FUTURE			CORNER MOUNT										
		EXISTING			PENDANT MOUNT										
		DEMOLISH			WALL MOUNT PENDANT ARM										
			LABELING SCHEME												
			SECURITY DEVICES (TYPICAL)												
		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: CAMERA NUMBER			AA: CAMERA TYPE (SEE CAMERA SCHEDULE ON THIS PAGE)						ENLARGED PLAN CALLOUT				
		## AFF: FOR WALL MOUNTED CAMERAS, HEIGHT ABOVE FINISHED FLOOR								NOT IN SCOPE					
			SEE MATCHING SCHEDULES ON THIS SHEET (IF APPLICABLE)												

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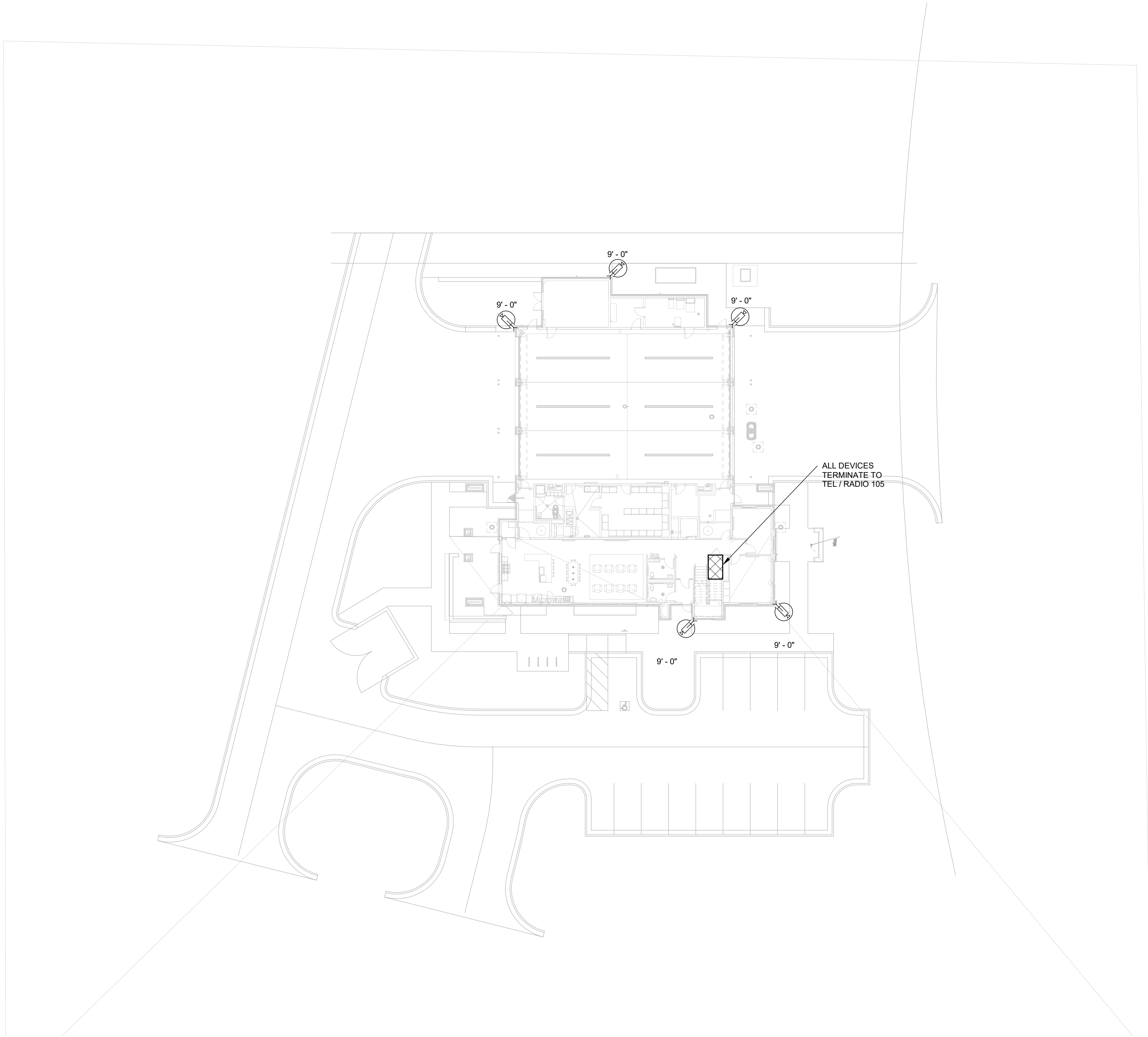
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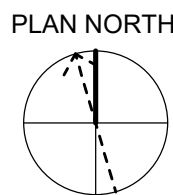


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SECURITY SITE PLAN

1" = 20'-0"

0 4' 8' 16'



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DATE: 10.26.2022

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CHK'D BY: M.MAURER

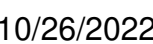
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**SECURITY SITE
PLAN**

TY100

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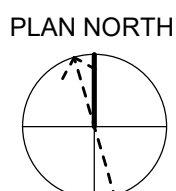
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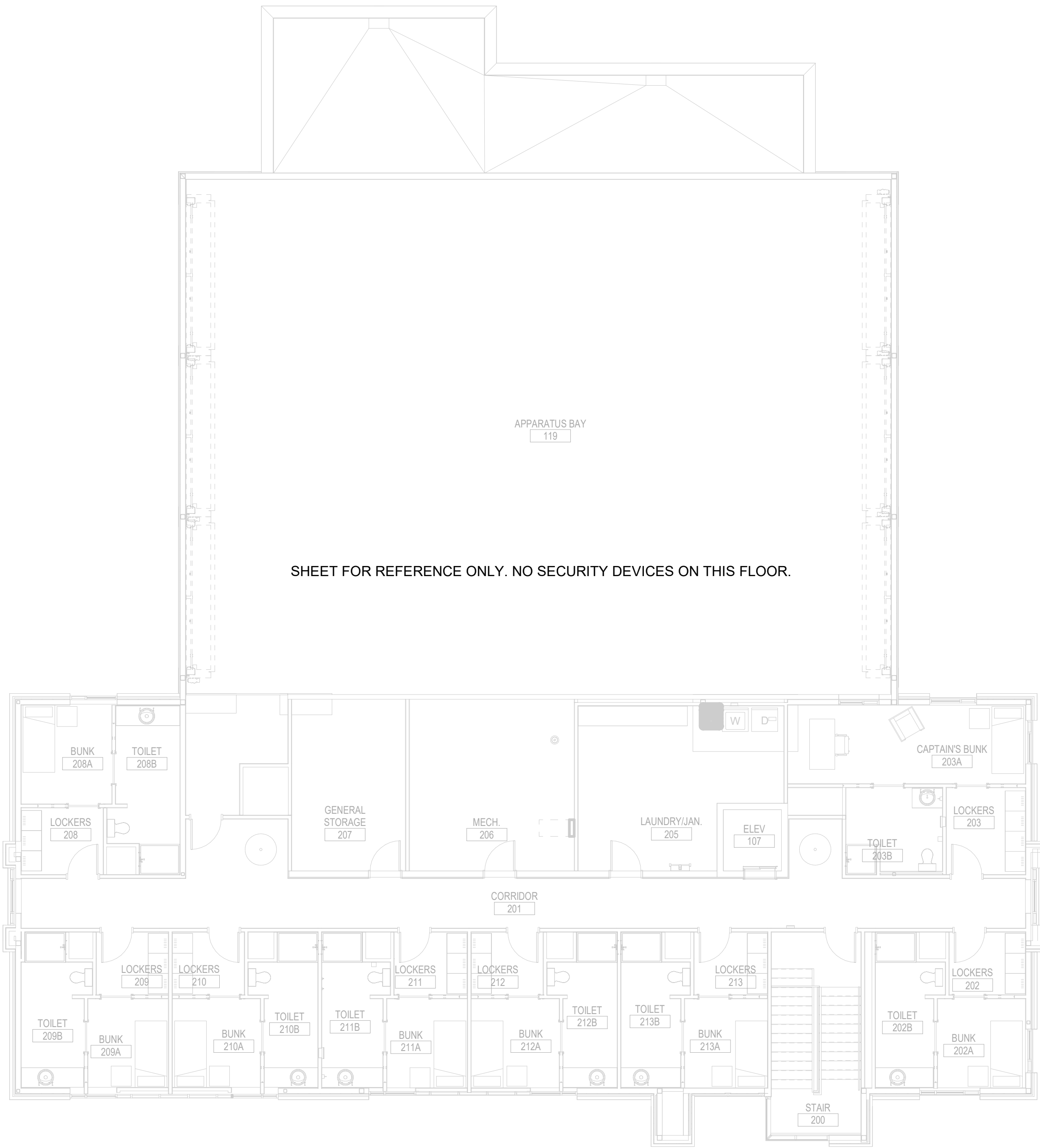
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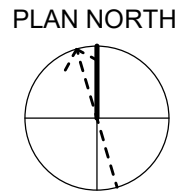


A1

SECURITY LEVEL 2 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'



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SECURITY LEVEL
2 PLAN

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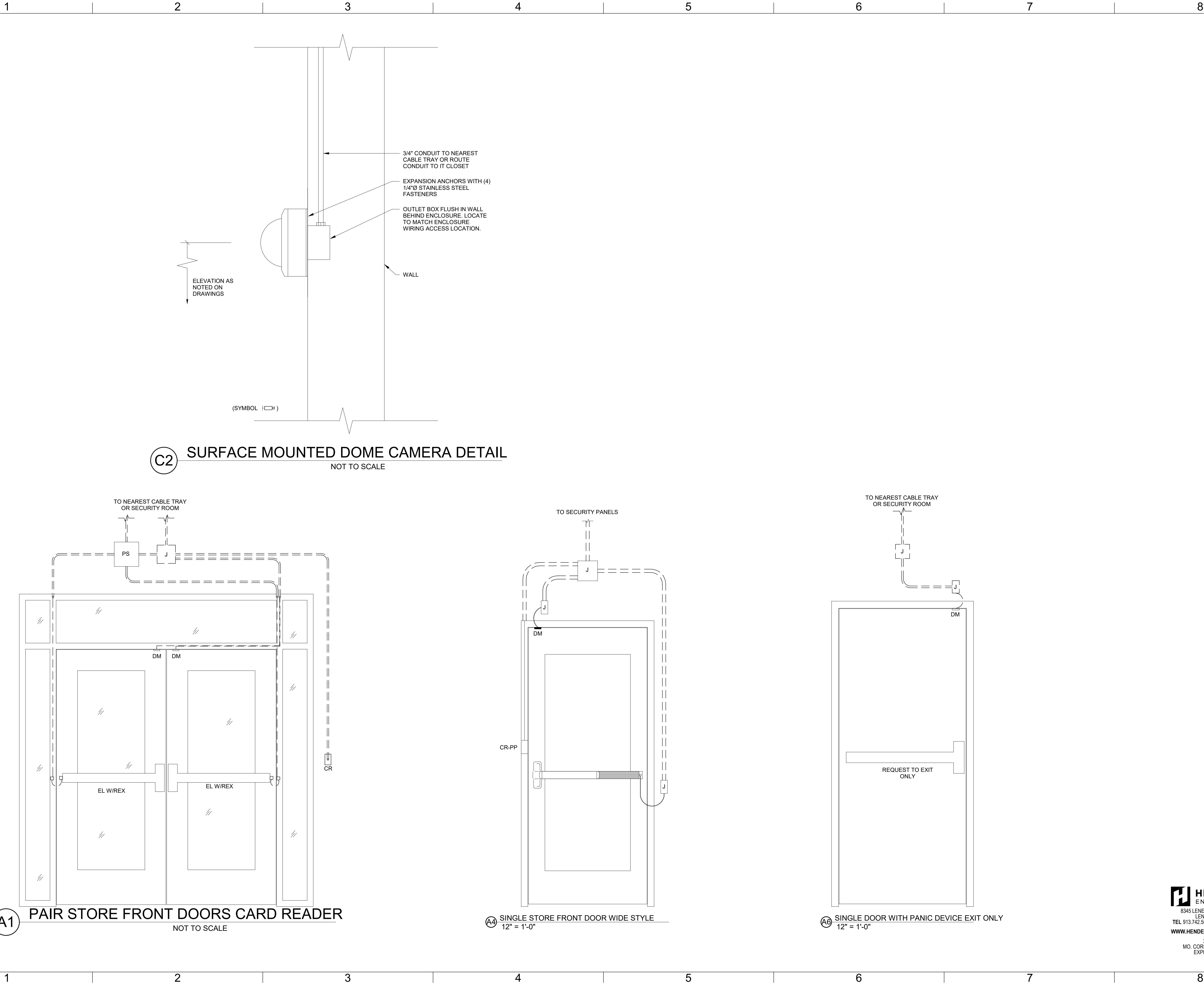
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REGISTERED PROFESSIONAL ENGINEER
MARK D. MAURER
NUMBER E-28923
10/26/2022

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DATE:	10.26.2022
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