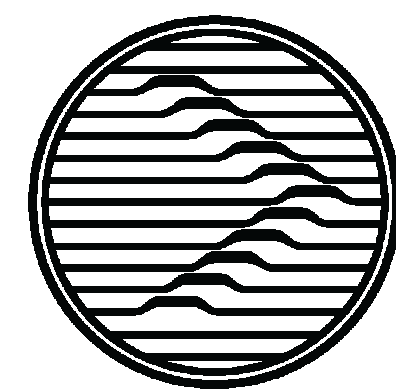


CONSTRUCT BELLEFONTAINE READINESS CENTER St. Louis, Missouri 63136

BIDDING DOCUMENTS - VOLUME 1



Oculus Inc.
CONNECT • SHAPE • MOVE



DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION AND AGENCY

OWNER:

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

DEPARTMENT OF
PUBLIC SAFETY

MISSOURI ARMY
NATIONAL GUARD

PROJECT
MANAGEMENT:

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION



ARCHITECT
DESIGNER:

OCULUS INC.

MEP/FP
DESIGNER:

INTROBA

CIVIL/STRUCTURAL
DESIGNER:

OATES ASSOCIATES

PROJECT NUMBER:

T2150-01

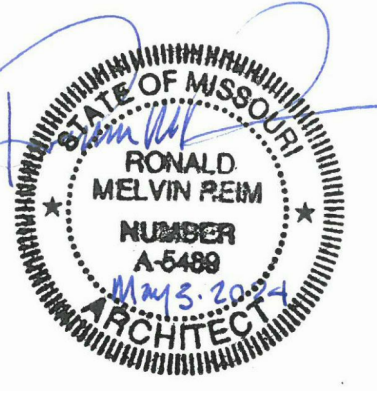
SITE NUMBER:
FACILITY NUMBER:
PN NUMBER:

6322
8136322001
290179



SHEET NUMBER:

G000
1 OF 272 SHEETS
05/03/2024



PROFESSIONAL SEAL



OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION

DEPARTMENT OF PUBLIC
SAFETY

MISSOURI ARMY
NATIONAL GUARD

CONSTRUCT
BELLEFONTAINE
READINESS CENTER

10625 LEWIS & CLARK
BLVD, ST. LOUIS, MO
63136

PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: JDW/CJK
CHECKED BY: JBS
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SHEET TITLE:
DRAWING INDEX,
ABBREVIATIONS,
GENERAL NOTES,
SYMBOLS

SHEET NUMBER:
G001
2 OF 272 SHEETS
05/03/2024

GENERAL NOTES

- NOTIFY ARCHITECT OF DISCREPANCIES ENCOUNTERED BETWEEN DOCUMENTS AND APPLICABLE CODES OF INTERPRETATIONS BY THE GOVERNING AGENCIES.
- PERFORM WORK USING ONLY SKILLED WORKERS TRAINED AND EXPERIENCED IN THEIR RESPECTIVE TRADE.
- VERIFY SITE CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING THE WORK AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
- VERIFY DIMENSIONS AND LOCATION OF OPENINGS, BASES, AND SPECIAL PROVISIONS REQUIRED FROM EQUIPMENT, DUCTS, PIPING, CONDUITS, FINISH HARDWARE, ETC.
- SCALING DRAWINGS IS DISCOURAGED AND PERFORMED AS THE SOLE RISK OF THE CONTRACTOR.
- COORDINATE WORK INDICATED IN ARCHITECTURAL DRAWINGS WITH WORK INDICATED IN MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, STRUCTURAL AND FIRE PROTECTION DRAWINGS.

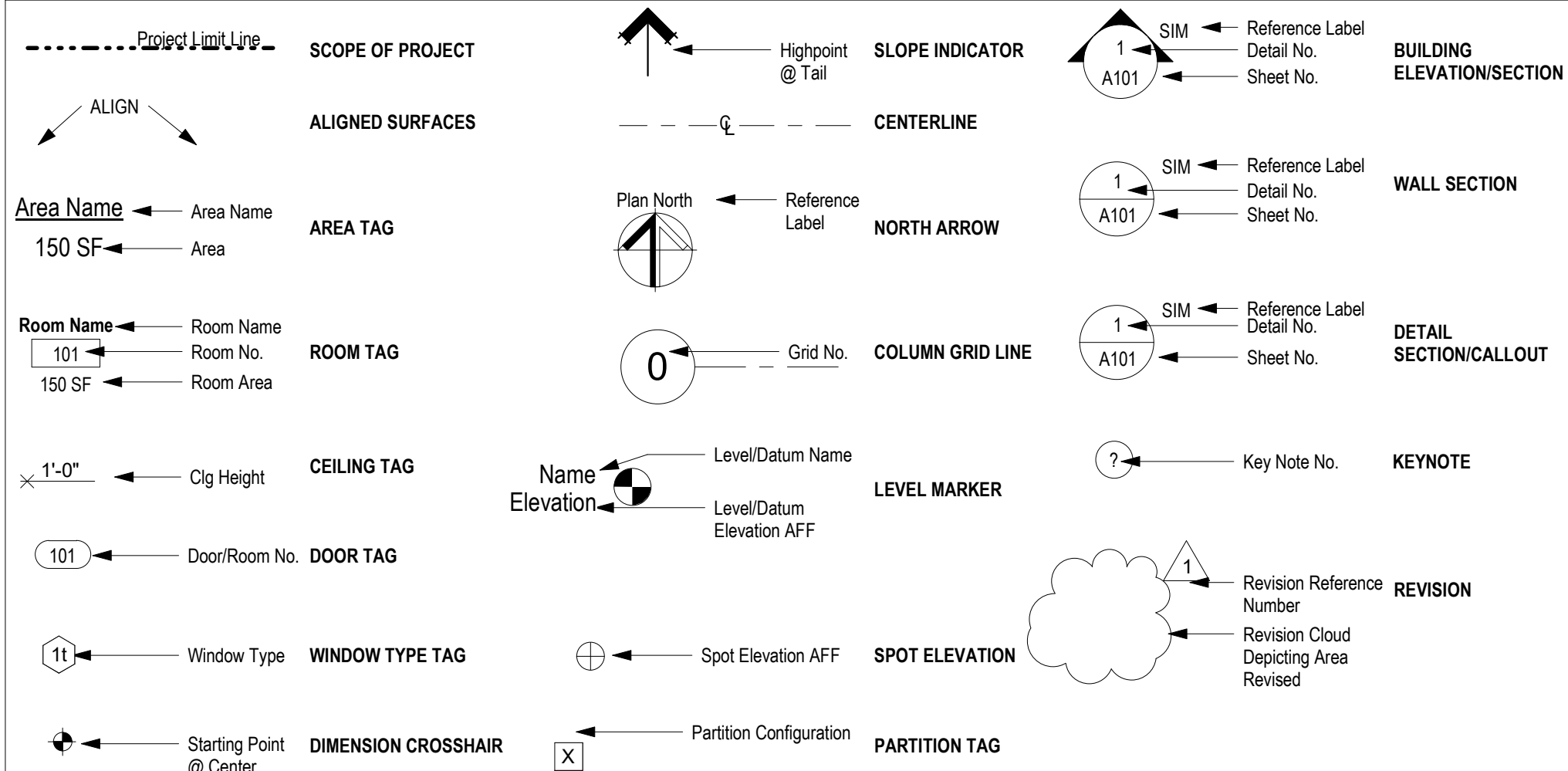
DESIGN ALTERNATES

- BID ALTERNATE 1**
1. UNSUITABLE SOILS, SOIL STABILIZATION AND SITE ACCESS ROAD.
A. UNSUITABLE SOILS INCLUDE 2FT OF SOIL REMEDIATION UNDER OV PARKING IN CUT AREAS AND 3FT OF REMEDIATION UNDER THE REAR PORTION OF THE BUILDING OVER THE EXISTING UNSUITABLE GRAVEL AREA. SOIL STABILIZATION INCLUDES 12" UNDER CONCRETE PAVEMENTS EXCLUDING PERVIOUS CONCRETE PAVEMENT AREAS. ACCESS ROAD INCLUDES THE PORTION OF PAVEMENT FROM STATE OF MISSOURI ASPHALT LANE ROAD TO THE READINESS CENTER MOTOR POOL ENTRY. INCLUDES THE PORTION OF FIBER OPTIC CONDUIT FROM POINT 300 FEET OUTSIDE THE LEASE LINE TO LEWIS AND CLARK BOULEVARD ALONG STATE OF MISSOURI ROAD.
- BID ALTERNATE 2**
1. ADD A SECOND RTU TO THE ROOF FOR ZONING AND INCREASE HVAC PERFORMANCE.
A. IN LIEU OF A SINGLE ROOFTOP UNIT TO SERVE ALL AIR-CONDITIONED AREAS, TWO WILL BE PROVIDED. THE TWO ROOFTOP UNITS WOULD DIVIDE THE AREAS SERVED INTO OFFICE AND OFFICE SUPPORT, CLASSROOMS, ARMS VAULT, KITCHEN AND LOWER LEVEL OFFICES AND TOILETS. THIS ALLOWS FOR INDEPENDENT OPERATION OF THESE SYSTEMS, PROVIDING A LEVEL OF REDUNDANCY AND HELPING TO RIGHT-SIZE EQUIPMENT FOR EVERYDAY OPERATION.
- BID ALTERNATE 3**
1. CONCRETE BASE AT PERIMETER FENCE OF BUILDING AND MOTOR POOL AREA.
A. ADD A CONCRETE MOW STRIP AT THE BASE OF THE PERIMETER FENCE FOR EASE OF MAINTENANCE AND PROVIDE A STANDOFF TO PROTECT THE FENCE FROM LAWN MAINTENANCE EQUIPMENT. CONCRETE BASE CANNOT BE INSTALLED ON PORTIONS OF THE NORTH FENCE LINE DUE TO EXCESSIVE GRADING. INCLUDES ADDITION OF CONCRETE SURFACE INSTEAD OF AGGREGATE SURFACE ALONG THE PERIMETER FENCE AROUND THE WEST OV PARKING AREA.

ABBREVIATIONS

AB	Anchor Bolt	CPC	Countersink	FS	Face of Studs	N/A	Not Applicable	SUSP	Suspended
ABV	Above	CPT	Carpet (ing)	FSZ	Full Size	NIC	Not in Contract	SYM	Symmetry (ical)
ACC	Access	CR	Card Reader	FT	Feet/Foot	NOM	Nominal	SYS	System
ACOUS	Acoustical	DET	Detail	FTG	Footing	NRC	Noise Reduction Coefficient	T	Title
ACP	Acoustical Ceiling Panel	DF	Drinking Fountain	FURR	Furring	NTS	Not To Scale	TIS	Top of Slab
ACT	Acoustical Ceiling Tile	DIA	Diameter	GA	Gage, Gauge	OA	Overall	TW	Top of Wall
AD	Access Door	DIAG	Diagonal	GALV	Galvanized	OC	On Center	TEL	Telephone
ADD	Addendum	DIM	Dimension	GB	Grab Bar	OD	Outside Diameter	TH	Threshold
ADH	Adhesive	DIV	Division	GC	General Contract (or)	OH	Opposite Hand	THK	Thick (ness)
ADJ	Adjustable	DN	Down	GL	Glass, Glazing	OHD	Overhead	TO	Top Of
ADJC	Adjacent	DP	Damp Proofing	GLV	Gravel	OPNG	Opening	TOS	Top of Steel
AFF	Above Finished Floor	DR	Door	GWB	Gypsum Wall Board	OPP	Opposite	TP	Toilet Partition
ALUMIN	Aluminum	DS	Downspout	GYRBD	Gypsum (Board)	OTO	Out To Out	TPD	Toilet Paper Dispenser
ALT	Alternate	DWG	Drawing	HC	Hollow Core	PC	Precast Concrete	TRAN	Transition
ANOD	Anodized	DWR	Drawer	HM	Hollow Metal	PCC	Portland Cement Concrete	TYP	Typical
AP	Acoustical Panel	EA	EACH	HORIZ	Horizontal	PERF	Perforated	UNO	Unless Noted Otherwise
APPROX	Approximate	EB	Expansion Bolt	HP	High Point/Horsepower	PFN	Pre-Finished	UR	Urinal
ARCH	Architect (ural)	EG	Exterior Grade	HR	Handrail	PLYWD	Plywood	VCT	Vinyl Composition Tile
BD	Board	EJ	Expansion Joint	HT	Height	PNT	Paint	VERT	Vertical
BEL	Below	EL	Elevation	HVAC	Heating/Ventilating/AC	POL	Polished	VIF	Verify In Field
BEV	Beveled	ELEV	Elevator	IF	Inside Face	PRT	Partial/Preservative Treated	VIN	Vinyl
BIT	Bituminous	EMERG	Emergency	INCL	Include (d), (ing)	PTD	Painted	VPB	Vapor Barrier
BLDG	Building	ENAM	Enameled	INFO	Information	PTN	Partition	WB	Wall Base
BLK/G	Blocking	ENT	Entrance	INSUL	Insulate (d), (ion)	PVC	Paper Towel Dispenser	WC	Water Closet
BM	Beam	EQU	Equal	INT	Interior	PTR	Polyvinyl Chloride	WD	Wood
BOT	Bottom	EQUIP	Equipment	INV	Invert	QT	Quarry Tile	WIN	Window
BRG	Bearing	EST	Estimate	JBOX	Junction Box	OZ	Ounce	WP	Waterproofed
BRG PL	Bearing Plate	EWC	Electric Water Cooler	JC	Janitor's Closet	RAD	Radius	WPF	Weather Proofing
BRK	Brick	EXF	Exhaust Fan	JT	Joint	REF	Reference	WT	Window Treatment
BS	Both Sides	EXH	Exhaust	KD	Knock Down	REFL	Reflect (ed), (ive), (or)	XFMR	Transformer
BSMT	Basement	EXP	Exposed/Expansion	KO	Knockout	REIN	Reinforce (d), (s)		
BUR	Built Up Roofing	EXT	Exterior	KP	Kick Plate	REOQ	Required		
C	Conduit	EXTG	Existing	L	Long	REV	Revision (s), Revised		
CAB	Cabinet	F/CONC	Face of Concrete	LAB	Laboratory	RFG	Roofing		
CC	Center to Center	F/FIN	Face of Finish	LAM	Laminated (d)	RM	Room		
CEM	Cement	F/MAS	Face of Masonry	LAV	Lavatory	RO	Rough Opening		
CER	Ceramic	FA	Fire Alarm	LP	Low Point	RS	Resinous Floor		
CFL	Counter Flashing	FAB	Fabric	LT	Light	RSP	Resilient Sheet Flooring		
CG	Corner Guard	FAS	Fasten, Fastener	LVT	Luxury Vinyl Tile	S	Sink		
CIRC	Circumference	FBO	Furnished By Others	MAINT	Maintenance	SC	Sealed Concrete		
CJ	Construction Joint	FD	Floor Drain	MAS	Masonry	SCH	Schedule		
CK	Caulk (ing)	FDN	Foundation	MAT	Material (s)	SECT	Section		
CLG	Ceiling	FE	Fire Extinguisher	MAX	Maximum	SFGL	Safety Glass		
CLS	Closure	FEC	Fire Extinguisher Cabinet	MCB	Metal Corner Bead	SIM	Similar		
CMU	Concrete Masonry Unit	FF	Finished Floor/Face	MDF	Medium Density Fiberboard	SNT	Sealant		
CO	Clean Out	FGL	Fiberglass	MET	Metal	SQ	Square		
COL	Column	FHC	Fire Hose Cabinet	MFR	Manufacture (r)	SS	Stainless Steel		
COMP	Compress (ed), (ion), (ible)	FIN	Finish (ed)	MIN	Minimum	STM	Solid Surface Material		
CONC	Concrete	FLASH	Flashing	MIR	Mirror	STA	Station		
CONST	Construction	FLX	Flexible	MISC	Miscellaneous	STD	Standard		
CONT	Continuous or Continue	FFRFG	Fireproofing	MO	Masonry Opening	STG	Seating		
CORR	Corridor	FR	Fire Resistant	MTL	Material	STL	Steel		
CPC	Cast In Place Concrete	FRP	Fiber Reinforced Plastic	MULL	Mullion	STRUCT	Structural		

PLAN SYMBOLS



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LIFE SAFETY - BUILDING CODE ANALYSIS

PROJECT NAME:	CONSTRUCT BELLEFONTAINE READINESS CENTER
CITY:	ST. LOUIS
COUNTY:	ST. LOUIS COUNTY
STATE:	MISSOURI
AUTHORITY HAVING JURISDICTION:	THE STATE OF MISSOURI (TO ABIDE BY THE RULES AND REGULATIONS OF BELLEFONTAINE NEIGHBORS)
APPLICABLE CODES AND STANDARDS	2018 INTERNATIONAL BUILDING CODE (IBC) 2021 INTERNATIONAL ENERGY CONSERVATION CODE 2021 INTERNATIONAL MECHANICAL CODE 2021 INTERNATIONAL PLUMBING CODE 2021 INTERNATIONAL FIRE CODE 2021 NFPA 101, LIFE SAFETY CODE 2020 NFPA 70, NATIONAL ELECTRICAL CODE 2019 NFPA 72, NATIONAL FIRE ALARM CODE 2021 NFPA 90A, STANDARD FOR INSTALLATION OF AIR-CONDITIONING AND VENTILATION SYSTEMS VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY ASHRAE STANDARD 62.1-2004 2010 ADA AND ABA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES - (23 JULY, 2004) NGR PAM 415-5 NGR 415-10 NG PAM 415-12 UFC 1-200-01, DOD BUILDING CODE
	BASIC BUILDING INFORMATION 2018 INTERNATIONAL BUILDING CODE (IBC)
CONSTRUCTION TYPE (IBC TABLE 601, NFPA 220 SECTION 4.3)	TYPE IIB
OCCUPANCY CLASSIFICATION (IBC CHAPTER 3 AND SECTION 508.1. NFPA 101 CHAPTER 6)	MIXED-USE
	BUSINESS GROUP B STORAGE GROUP S-1: MODERATE-HAZARD FACTORY INDUSTRIAL GROUP F-1: MODERATE-HAZARD
MIXED OCCUPANCY GROUP SEPARATION (IBC TABLE 508.4, NFPA 101 TABLE 6.1.14.1(A & B).):	NO SEPARATION REQUIREMENT BETWEEN B AND S-1 OCCUPANCIES
HEIGHT & AREA LIMITATIONS ALLOWABLE HEIGHT AND STORIES (IBC TABLE 504.3, 504.4) :	75 FEET; 4 STORIES
ALLOWABLE AREA (IBC TABLE 506.2,):	THE AREA OF A GROUP B, F, M, OR S BUILDING NO MORE THAN TWO STORIES ABOVE GRADE PLANE SHALL NOT BE LIMITED WHEN THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, AND IS SURROUNDED AND ADJOINED BY PUBLIC WAYS OR YARDS NOT LESS THAN 60 FEET IN WIDTH.
OCCUPANCY COUNTS (IBC TABLE 1004.1.2 AND NFPA 101, TABLE 7.3.1.2):	SEE LIFE SAFETY PLAN FOR DETAILS
LOWER LEVEL OCCUPANTS:	667 OCCUPANTS; SEE LIFE SAFETY PLAN FOR DETAILS
UPPER LEVEL OCCUPANTS:	473 OCCUPANTS; SEE LIFE SAFETY PLAN FOR DETAILS
TOTAL BUILDING OCCUPANTS:	1141 OCCUPANTS
FIRE-RESISTANT BUILDING ELEMENTS (IBC TABLE 601 & NFPA 220 TABLE 4.1.1)	
PRIMARY STRUCTURAL FRAME:	0 HOURS
EXTERIOR BEARING WALLS:	0 HOURS
INTERIOR BEARING WALLS:	0 HOURS
INTERIOR NONBEARING WALLS:	0 HOURS
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS:	0 HOURS
ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS:	0 HOURS
PASSIVE FIRE SAFETY FEATURES - TRAVEL DISTANCES EXIT TRAVEL DISTANCE - WITH SPRINKLERS:	
BUSINESS GROUP B (IBC TABLE 1017.2 & NFPA 101 TABLE A.7.6)	300 FEET MAXIMUM
STORAGE GROUP S-1 (IBC TABLE 1017.2)	250 FEET MAXIMUM
COMMON PATH DISTANCE - WITH SPRINKLERS:	
BUSINESS GROUP B (IBC TABLE 1006.2.1 & NFPA 101 TABLE A.7.6)	100 FEET MAXIMUM
STORAGE GROUP S-1 (IBC TABLE 1006.2.1 & NFPA 101 TABLE A.7.6)	100 FEET MAXIMUM
MINIMUM CORRIDOR WIDTHS (IBC 1018.2) WHEN OCCUPANT LOAD <50	44 INCHES MINIMUM 36 INCHES MINIMUM
DEAD END CORRIDORS - WITH SPRINKLERS (IBC 1020.5 EX. 2)	
BUSINESS GROUP B AND STORAGE GROUP S-1	50 FEET MAXIMUM

LIFE SAFETY - BUILDING CODE ANALYSIS

CORRIDOR FIRE-RESISTANCE RATING (IBC TABLE 1020.2, NFPA 101 38.3.6.1 EX.3)	
BUSINESS GROUP B	0 HOURS
STORAGE GROUP S-1	0 HOURS
MINIMUM NUMBER OF EXITS PER FLOOR (IBC TABLE 1006.3.3 & NFPA 101 7.4.1.2)	
LOWER LEVEL:	3 EXITS REQUIRED
FIRST FLOOR LEVEL	2 EXITS REQUIRED
EXIT CAPACITY	
EGRESS WIDTH FOR STAIRWAYS (IBC 1005.3.1):	0.3 INCH PER OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS
EGRESS WIDTH FOR OTHER EGRESS COMPONENTS (IBC 1005.3.2)	0.2 INCH PER OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS
96	
SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY (IBC TABLE 1006.2.1)	
BUSINESS GROUP B	49 OCCUPANTS MAXIMUM
ASSEMBLY GROUP A	49 OCCUPANTS MAXIMUM
STORAGE GROUP S-1	29 OCCUPANTS MAXIMUM
FACTORY INDUSTRIAL F-1	49 OCCUPANTS MAXIMUM
EGRESS THROUGH INTERVENING SPACES (IBC 1016.1)	EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREA AND THE AREA SERVED ARE ACCESSORY TO ONE OR THE OTHER AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT.
STAIR ENCLOSURE CONSTRUCTION (IBC 1022.1 AND)	1 HOUR CONSTRUCTION
HAZARDOUS AREA SEPARATION	IBC & NFPA 101
BUSINESS:	STORAGE/IT: 1 HOUR RATED PARTITIONS
ACTIVE FIRE SAFETY FEATURES	
AUTOMATIC SPRINKLER SYSTEM:	REQUIRED PER IBC 507.5 FOR AN UNLIMITED AREA BUILDING
FIRE ALARM SYSTEM:	
DETECTION SYSTEM:	REQUIRED (NFPA 90A, ASME 17.1)
SMOKE CONTROL SYSTEM:	NOT REQUIRED
PORTABLE FIRE EXTINGUISHERS:	REQUIRED PER NFPA 10. 75' TRAVEL DISTANCE.
EXIT IDENTIFICATION:	REQUIRED
EXIT ILLUMINATION:	REQUIRED

2021 IECC BUILDING ENVELOPE REQUIREMENTS

CONSTRUCTION	REQUIRED VALUE	PROVIDED VALUE
IECC CLIMATE ZONE 4A, MIXED HUMID		
IECC TABLE C402.1.3		
INSULATION ENTIRELY ABOVE ROOF DECK	R-30ci	R-30ci
MASS WALL, ABOVE GRADE	R9.5ci	R9.5ci
BELOW GRADE WALL	R7.5ci	R7.5ci
UNHEATED SLAB ON GRADE	R-15 FOR 24" BELOW	R-15 FOR 24" BELOW
FIXED FENESTRATION	U - 0.36	U - 0.36
ENTRANCE DOORS	U - 0.63	U - 0.63
FENESTRATION SOLAR HEAT GAIN COEFFICIENT	U - 0.36 (FIXED)	U - 0.36 (FIXED)

PLUMBING FIXTURE CALCULATIONS

	WATER CLOSETS: MALE	URINALS	WATER CLOSETS: FEMALE	LAVATORIES: MALE	LAVATORIES: FEMALE	DRINKING FOUNTAINS	SERVICE SINK
PLUMBING CALCULATIONS (FPC TABLE 403.1)							
TOTAL OCCUPANTS: 1161							
BUSINESS GROUP B (696 OCCUPANTS) REQUIRED FIXTURES	1 PER 25 FOR FIRST 50, 1 PER 50 FOR REMAINDER		1 PER 25 FOR FIRST 50, 1 PER 50 FOR REMAINDER	1 PER 40 FOR FIRST 80, 1 PER 80 FOR REMAINDER	1 PER 40 FOR FIRST 80, 1 PER 80 FOR REMAINDER	1 PER 100 OCC.	
	7	MAY BE UP TO 50% OF REQUIRED MALE WATERCLOSETS	7	4	4	7	1
ASSEMBLY GROUP A (367 OCCUPANTS) REQUIRED FIXTURES	1 PER 125 OCC.		1 PER 65 OCC.	1 PER 200 OCC. TOTAL FOR MEN AND WOMEN COMBINED	1 PER 200 OCC. TOTAL FOR MEN AND WOMEN COMBINED	1 PER 500	
	3		5	2	0	1	1
STORAGE GROUP S-1 (64 OCCUPANTS) REQUIRED FIXTURES:	1 PER 100 OCC.		1 PER 100 OCC.	1 PER 100 OCC.	1 PER 100 OCC.	1 PER 1000 OCC.	
	1	-	1	1	1	1	1
FACTORY INDUSTRIAL GROUP F-1 (34 OCCUPANTS) REQUIRED FIXTURES:	1 PER 100 OCC. TOTAL FOR MEN AND WOMEN COMBINED		1 PER 100 OCC. TOTAL FOR MEN AND WOMEN COMBINED	1 PER 100 OCC. TOTAL FOR MEN AND WOMEN COMBINED	1 PER 100 OCC. TOTAL FOR MEN AND WOMEN COMBINED	1 PER 400 OCC.	
	1	-	0	1	0	1	1
PER FPC 403.1.1 FOR CALCULATIONS INVOLVING MULTIPLE OCCUPANCIES, THE REQUIRED NUMBER OF FIXTURES FOR EACH OCCUPANCY IS CALCULATED AND ADDED TOGETHER PRIOR TO BEING ROUNDED UP TO THE NEXT WHOLE NUMBER.							
PER FPC 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 EDUCATIONAL OCCUPANCIES. URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50 PERCENT OF THE REQUIRED WATER CLOSETS IN ALL OTHER OCCUPANCIES.							
TOTAL REQUIRED:	12	-	12	8	8	10	3
PROVIDED:	14	7	12	8	8	13	3

NOTE:
REFER TO THE FIRE ALARM AND FIRE SUPPRESSION ENGINEERING DRAWINGS FOR SPECIFIC REQUIREMENTS REGARDING SUPPRESSION, DETECTION AND NOTIFICATION SYSTEMS. INFORMATION ABOVE SHOWN FOR REFERENCE ONLY.

UFC REQUIREMENTS

GENERAL:
THE BUILDING HAS BEEN DESIGNED TO COMPLY WITH UFC 4-010-01 STANDARDS 1, 10 AND 11. A DESIGN BASIS THREAT LEVEL WAS ESTABLISHED USING UFC 4-020-01 AS PROVIDED BY THE STATE. THIS LEVEL WAS DETERMINED TO BE A "LOW LEVEL" OF PROTECTION. A 85 0' MINIMUM STAND-OFF DISTANCE WAS USED FOR THE BUILDINGS EXTERIOR WALLS WITH A BLAST LOAD OF 220 LBS OF TNT PER UFC 4-020-01 (TABLEC-2).

GLAZING SYSTEMS:
TO MAINTAIN A 85' 0" STAND OFF DISTANCE IN LIEU OF THE 123' 0" WINDOW STAND OFF DISTANCE SET AS LISTED IN TABLE C-2, EXTERIOR LAMINATED GLAZING SYSTEMS WILL BE DESIGNED FOR BLAST RESISTANCE IN ACCORDANCE WITH UFC 4-010-01, B-3.1.3 (ASTM F 2248 DESIGN APPROACH FOR LAMINATED GLASS GLAZING SYSTEMS) AS WELL AS ASTM F 2248 AND ASTM E 1300.

UNGLAZED DOORS:
EXTERIOR DOORS WILL BE DESIGNED IN ACCORDANCE WITH UFC 4-010-01, B-3.2. UNGLAZED DOORS WILL BE DESIGNED IN ACCORDANCE WITH ASTM F 2247 AND ASTM F 2927. DOORS WILL BE DESIGNED TO UL752 LEVEL 5 BALLISTIC RATING.

GLAZED DOORS:
GLAZED DOORS WILL BE DESIGNED TO MEET THE GLAZING REQUIREMENTS LISTED ABOVE AS WELL AS ASTM F 2927. DOORS WILL BE DESIGNED TO UL752 LEVEL 5 BALLISTIC RATING.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



PROFESSIONAL SEAL



ONE SOUTH MEMORIAL DRIVE
SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100

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720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
www.oatesassociates.com

California St. Louis, St. Charles, St. Charles, MO
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6 SOUTH OLD ORCHARD AVE.
ST. LOUIS, MO 63119
T: 314.918.5363
F: 314.918.1766
www.introba.com

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BLVD, ST. LOUIS, MO
63136

PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE: _____
REVISION:
DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: JTK/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
LIFE SAFETY
ANALYSIS

SHEET NUMBER:

G002

3 OF 272 SHEETS
05/03/2024



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ONE SOUTH MEMORIAL DRIVE
SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8361
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CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
LIFE SAFETY PLAN

SHEET NUMBER:
G003
4 OF 272 SHEETS
05/03/2024

LIFE SAFETY LEGEND

- PATH OF TRAVEL (FEET)
- START OF TRAVEL
- EGRESS DIRECTION (END OF TRAVEL)
- VOICE/ALARM SYSTEM THROUGHOUT (COORDINATE W/ ELECTRICAL)
- COMBINED OCCUPANT LOAD
- OCCUPANT LOAD OCCUPANT TYPE
- EXIT SIGN (COORDINATE W/ ELECTRICAL)
- PORTABLE FIRE EXTINGUISHER - CABINET MOUNTED (COORDINATE W/ FIRE MARSHAL)
- PORTABLE FIRE EXTINGUISHER - BRACKET MOUNTED (COORDINATE W/ FIRE MARSHAL)
- ACCESSIBLE EXIT DISCHARGE
V = REQUIRED EGRESS WIDTH
W = ACTUAL EGRESS WIDTH (IN.)
X = CALCULATED OCC. LOAD
Y = CODE REQUIRED OCC. LOAD

- ONE HOUR FIRE BARRIER CONSTRUCTION
- TWO HOUR FIRE BARRIER CONSTRUCTION

USE AND OCCUPANCY LEGEND

- ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOMS
- ASSEMBLY WITHOUT FIXED SEATS (UNCONCENTRATED)
- BUSINESS AREAS
- EXERCISE ROOMS
- FACTORY INDUSTRIAL
- KITCHENS, COMMERCIAL
- LOCKER ROOMS
- UNOCCUPIED

LOWER LEVEL OCCUPANCY

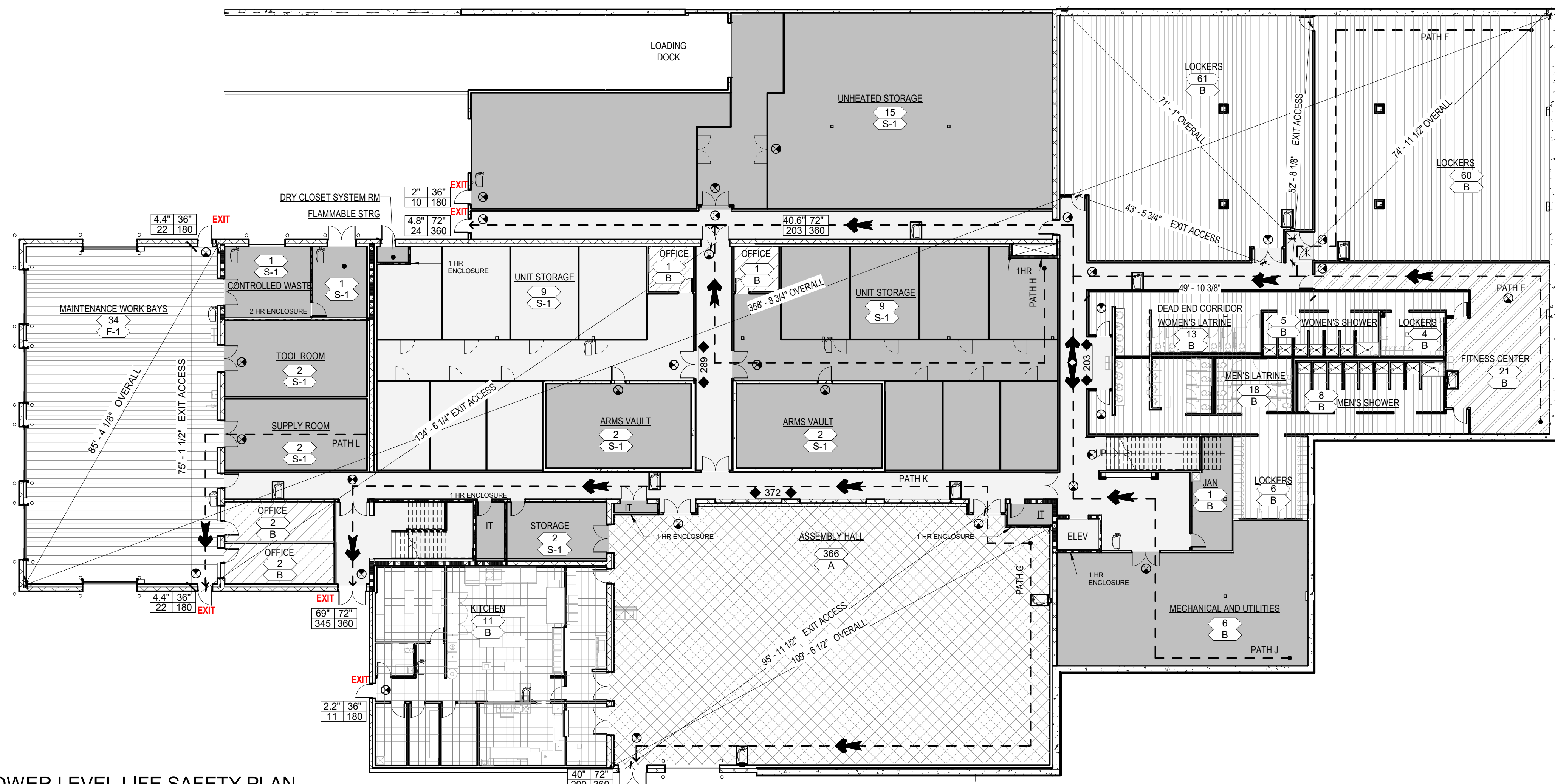
AREA	OCCUPANCY CLASS	LOAD FACTOR	OCCUPANT TOTAL
34 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOMS		0
20047 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOMS	300	74
5499 SF	ASSEMBLY WITHOUT FIXED SEATS (UNCONCENTRATED)	15	367
642 SF	BUSINESS AREAS	150	6
1000 SF	EXERCISE ROOMS	50	21
3279 SF	FACTORY INDUSTRIAL	100	33
2280 SF	KITCHENS, COMMERCIAL	200	12
8488 SF	LOCKER ROOMS	50	174
0 SF	UNOCCUPIED	0	0
41269 SF	FIRST FLOOR OCCUPANCY		687
1969 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOMS	300	11
7550 SF	BUSINESS AREAS	20	380
697 SF	BUSINESS AREAS	50	15
8536 SF	BUSINESS AREAS	150	68
3085 SF	UNOCCUPIED	0	0
21838 SF			474

TOTAL BUILDING OCCUPANCY

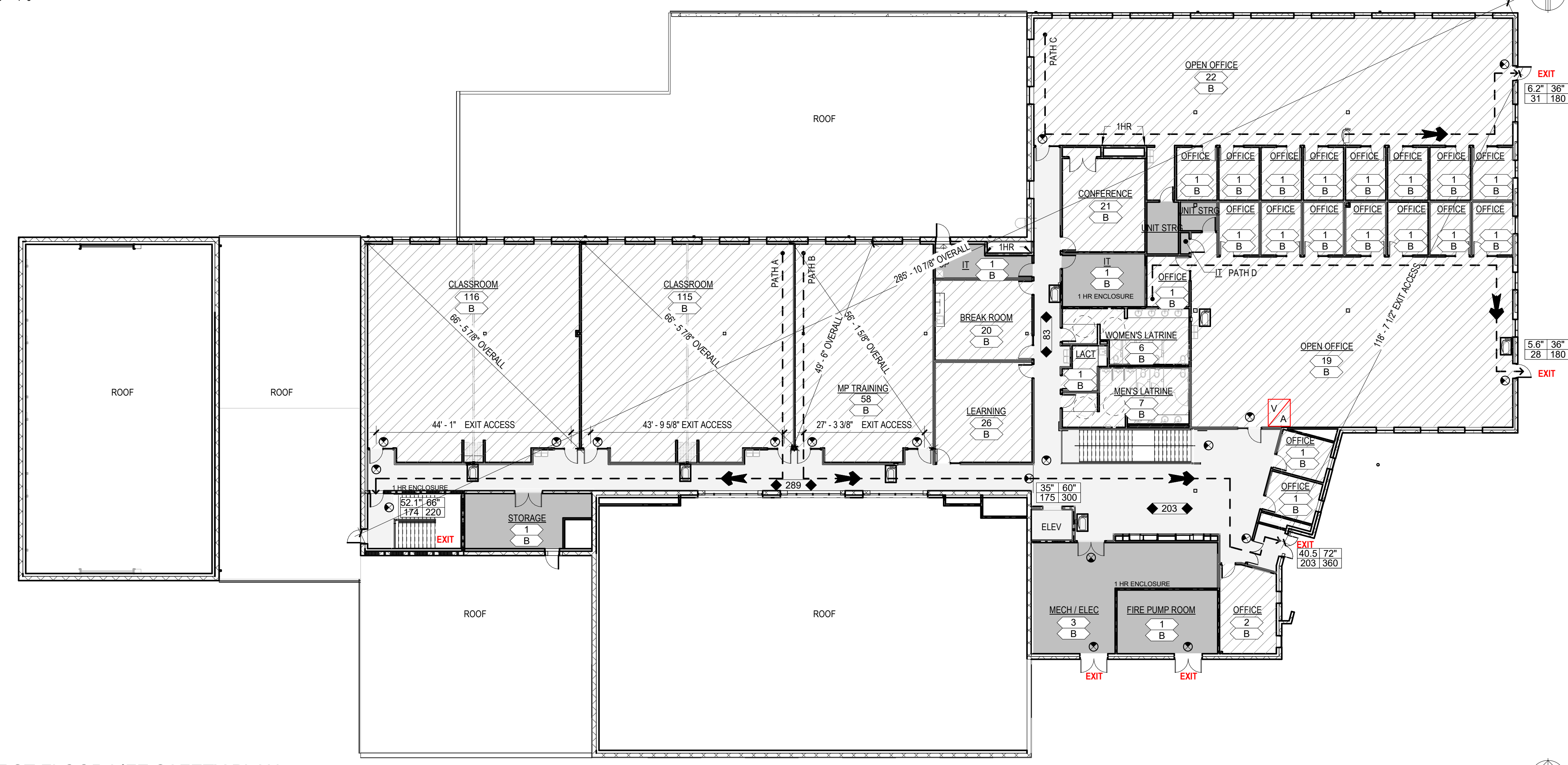
AREA	OCCUPANCY CLASS	LOAD FACTOR	OCCUPANT TOTAL
34 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOMS		0
22017 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOMS	300	84
5499 SF	ASSEMBLY WITHOUT FIXED SEATS (UNCONCENTRATED)	15	367
7550 SF	BUSINESS AREAS	20	380
697 SF	BUSINESS AREAS	50	15
9178 SF	BUSINESS AREAS	150	74
1000 SF	EXERCISE ROOMS	50	21
3279 SF	FACTORY INDUSTRIAL	100	33
2280 SF	KITCHENS, COMMERCIAL	200	12
8488 SF	LOCKER ROOMS	50	174
3085 SF	UNOCCUPIED	0	0
63107 SF			1161

EXIT ACCESS TRAVEL DISTANCE

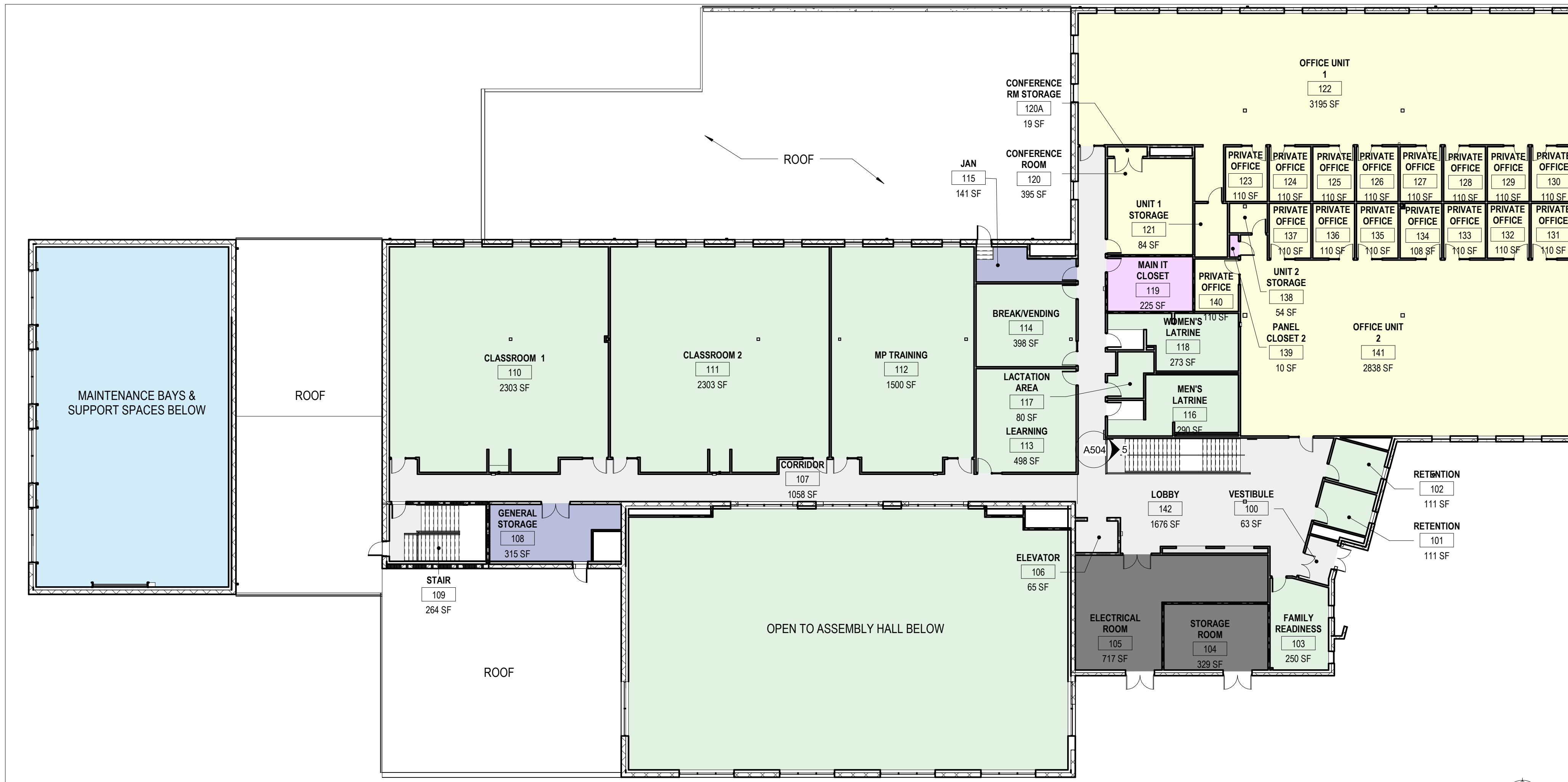
Path ID	Common Path Distance	Allowable Common Path	Actual Travel Distance	Allowable Travel Distance
PATH A	0' - 0"	100' - 0"	146' - 4"	300' - 0"
PATH B	0' - 0"	100' - 0"	177' - 4"	300' - 0"
PATH C	0' - 0"	100' - 0"	143' - 0"	300' - 0"
PATH D	0' - 0"	100' - 0"	115' - 6"	300' - 0"
PATH E	119' - 5"	100' - 0"	284' - 4"	300' - 0"
PATH F	11' - 4"	100' - 0"	245' - 11"	250' - 0"
PATH G	0' - 0"	100' - 0"	135' - 0"	300' - 0"
PATH H	0' - 0"	100' - 0"	124' - 1"	250' - 0"
PATH J	54' - 1"	100' - 0"	276' - 6"	300' - 0"
PATH K	0' - 0"	100' - 0"	184' - 0"	300' - 0"
PATH L	0' - 0"	100' - 0"	69' - 2"	250' - 0"



1 LOWER LEVEL LIFE SAFETY PLAN
1/16" = 1'-0"

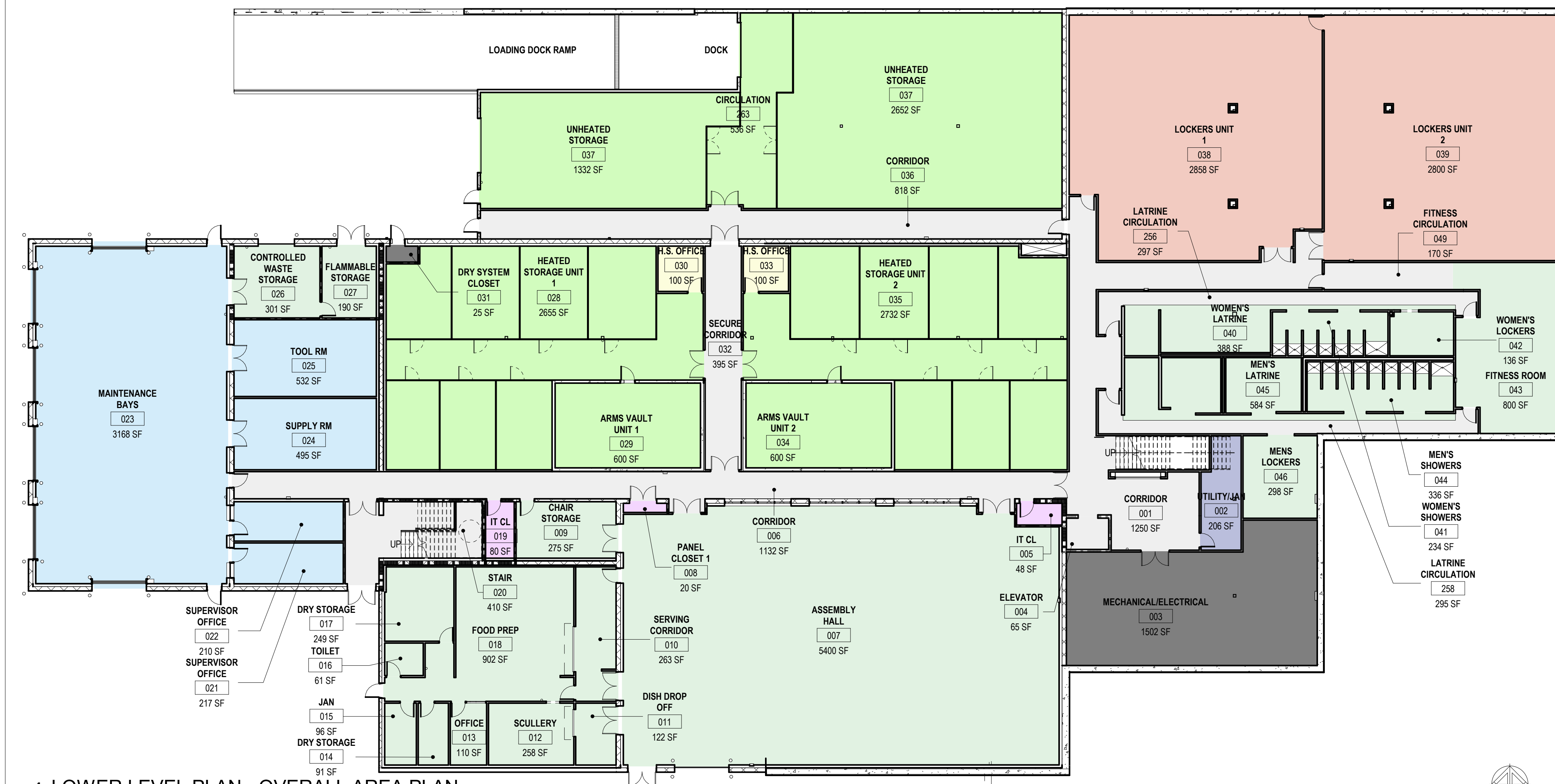


2 FIRST FLOOR LIFE SAFETY PLAN
1/16" = 1'-0"



2 FIRST FLOOR PLAN - OVERALL AREA PLAN
1/16" = 1'-0"

FUNCTIONAL SPACE DETAIL SCHEDULE	PROVIDED	AUTHORIZED	%
A. SCHEDULE 1 -- COMMON USE AREAS	19,332	19,230	0.53%
1. ASSEMBLY HALL	5,400	5,400	0.00%
2. CLASSROOMS	4,606	4,660	-1.16%
3. LEARNING CENTER	498	500	-0.40%
4. MULTIPURPOSE TRAINING AREA	1,500	1,500	0.00%
5. KITCHEN	2,151	2,200	-2.23%
6. BREAK / VENDING	398	400	-0.50%
7. LATRINES/SHOWER	2,541	2,420	5.00%
(1) TOILETS	1,535	1,540	
(2) SHOWERS	570	880	
(3) LOCKERS	436		
8. FLAMMABLE MATERIALS STORAGE	190	200	-5.00%
9. LACTATION AREA	80	80	0.00%
10. FAMILY READINESS OFFICE	250	250	0.00%
12. RETENTION OFFICE	222	220	0.91%
13. TABLE/CHAIR STORAGE	276	300	-8.00%
14. PHYSICAL FITNESS	800	800	0.00%
15. CONTROLLED WASTE HANDLING FACILITY (CWHF)	300	300	0.00%
16. PERCENTAGE OF EXTERIOR COVERED PORTIONS ON PLAN	120		
B. SCHEDULE II -- UNIT AND SPECIAL SPACE ALLOWANCES	25,402	25,806	-1.57%
1. ADMINISTRATIVE OFFICE SPACE	8,545	8,530	0.18%
2. UNIT STORAGE SPACE (INCLUDES HEATED STORAGE &...)	6,586	6,600	-0.21%
(1) ARMS VAULTS	1,200	1,200	
(2) HEATED STORAGE SPACE	5,386	5,400	
3. LOCKER ROOM SPACE	5,657	5,888	-3.92%
4. SPECIAL FUNCTIONS	4,614	4,788	-3.63%
(1) WORKBAYS	3,168	3,168	
(2) OFFICE SPACE (SUPERVISOR OFFICES & TOOL/SUPPLY)	1,446	1,620	
TOTAL NET READINESS CENTER SPACE	44,734	45,036	-0.67%
MAINTENANCE/STORAGE (3% OF TOTAL NET AREA)	707	1,352	-47.71%
MECHANICAL/ELECTRICAL ROOM (5% OF TOTAL NET AREA)	2,576	2,252	14.39%
TELECOM/IT (1% OF TOTAL NET AREA)	383	451	-15.08%
CIRCULATION ALLOWANCE (15% OR 22% OF TOTAL NET AREA)	7,956	10,801	-26.34%
STRUCTURAL ALLOWANCE (10% OF TOTAL NET AREA)	2,765	5,990	-53.84%
TOTAL READINESS CENTER SPACE (includes unheated storage)	63,642	65,882	-3.40%
TOTAL GROSS READINESS CENTER SPACE	59,121	65,882	-10.26%
TOTAL GROSS UNHEATED STORAGE SPACE	9,321	9,521	-2.10%
DETACHED UNHEATED STORAGE SPACE (EXISTING)	4,800	7,526	-36.22%
TOTAL ATTACHED UNHEATED STORAGE SPACE	4,521		
ATTACHED UNHEATED STORAGE SPACE	3,573		
CIRCULATION ALLOWANCE (15% OF NET)	536	1,129	-52.52%
STRUCTURAL ALLOWANCE (10% OF NET SPACE)	412	866	-52.42%



1 LOWER LEVEL PLAN - OVERALL AREA PLAN
1/16" = 1'-0"

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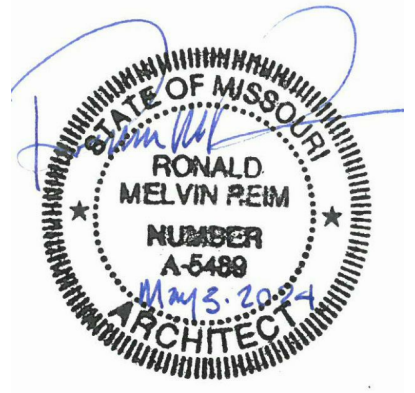
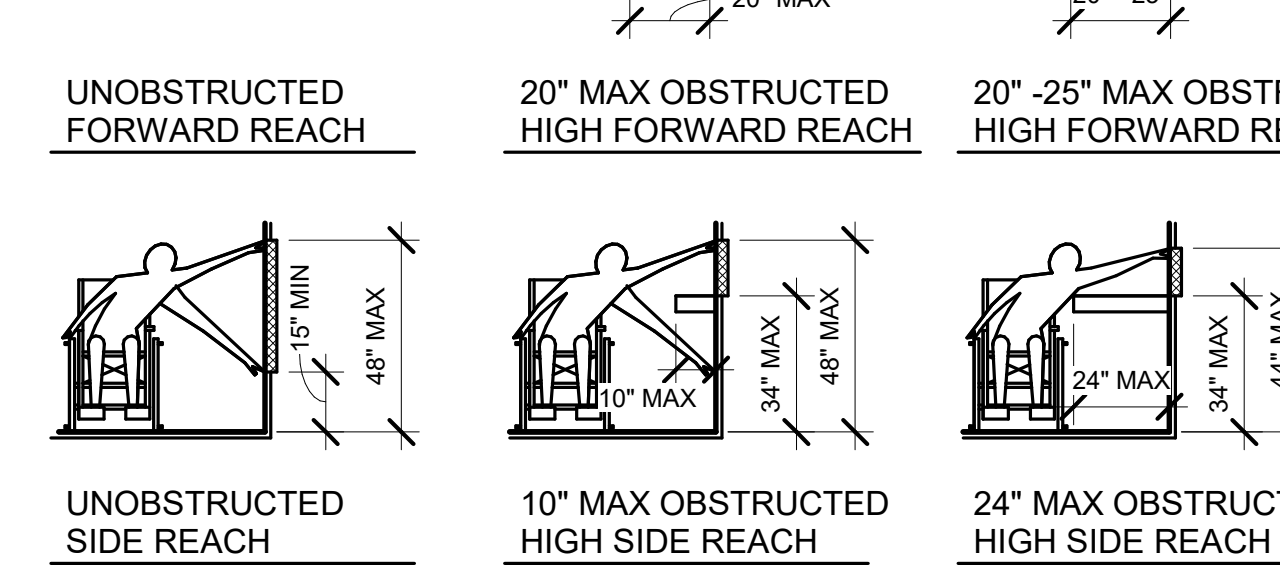
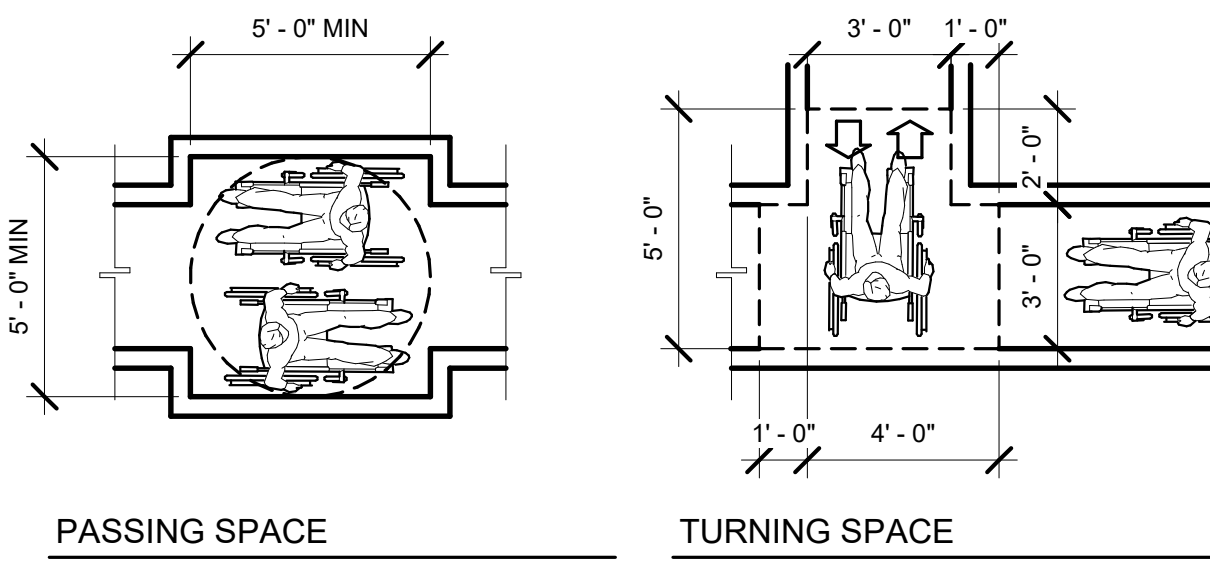
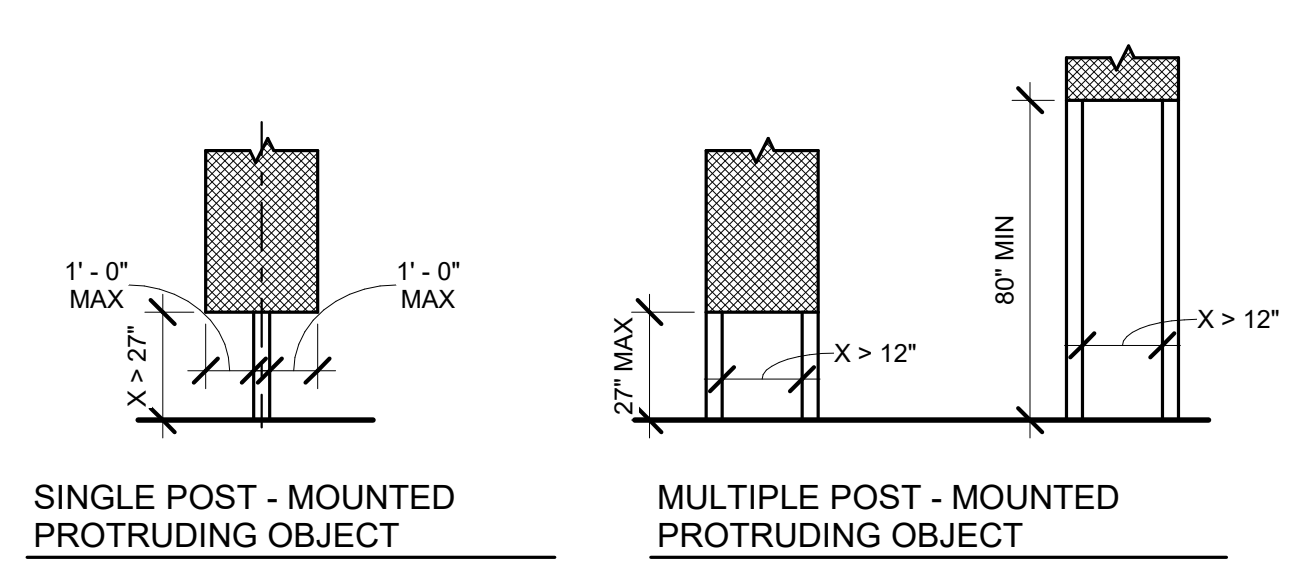
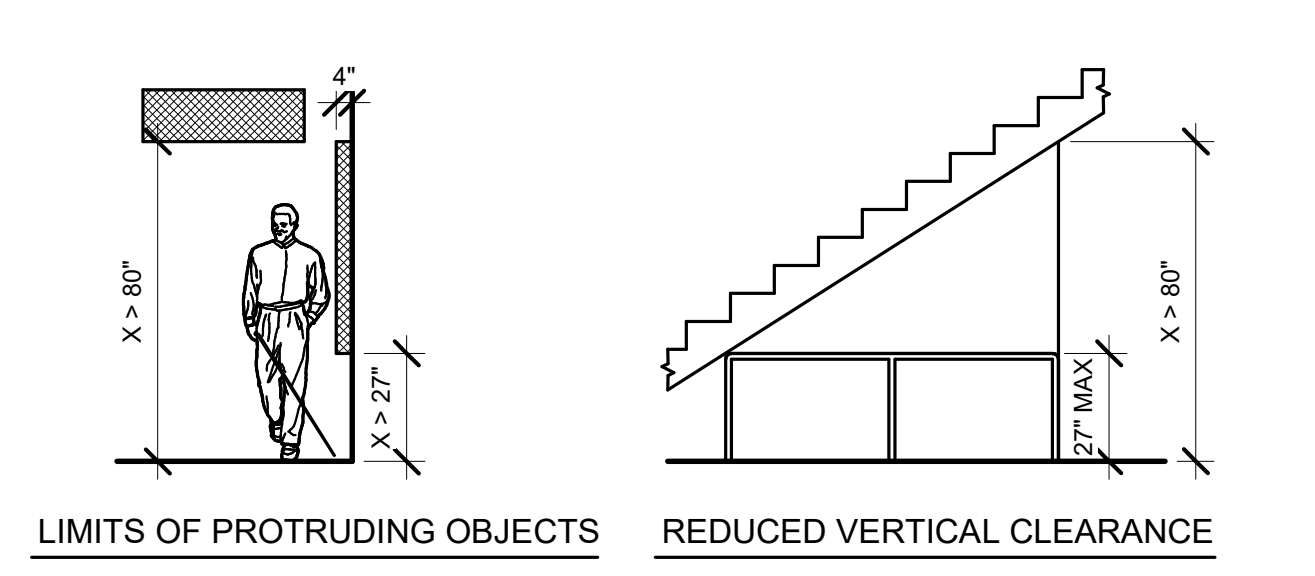
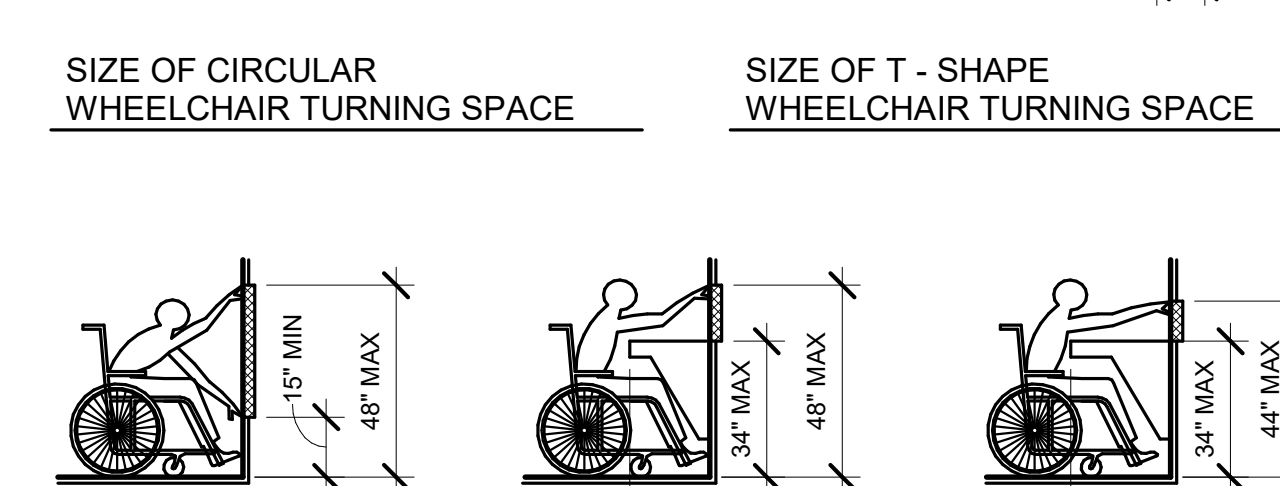
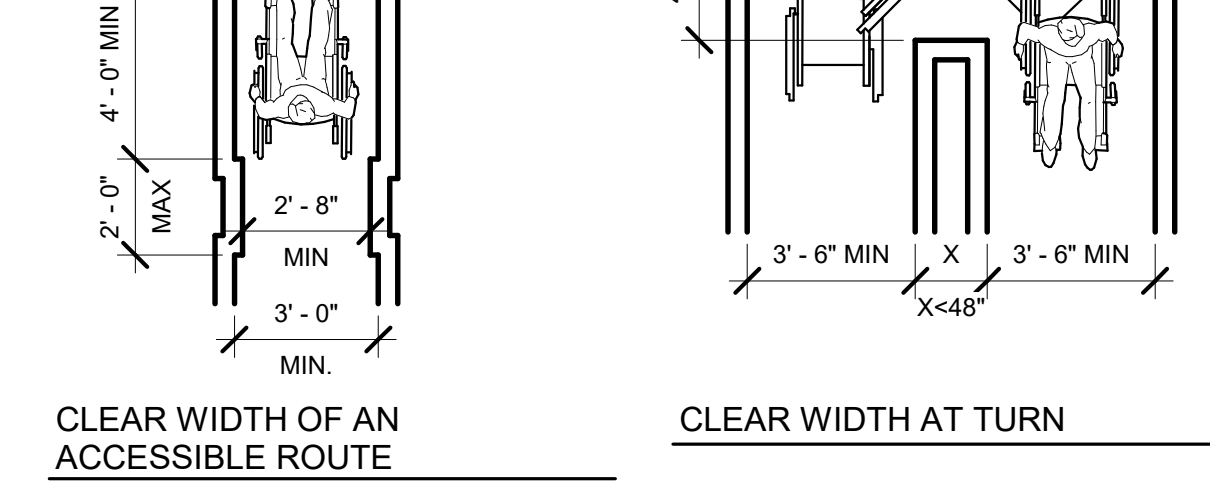
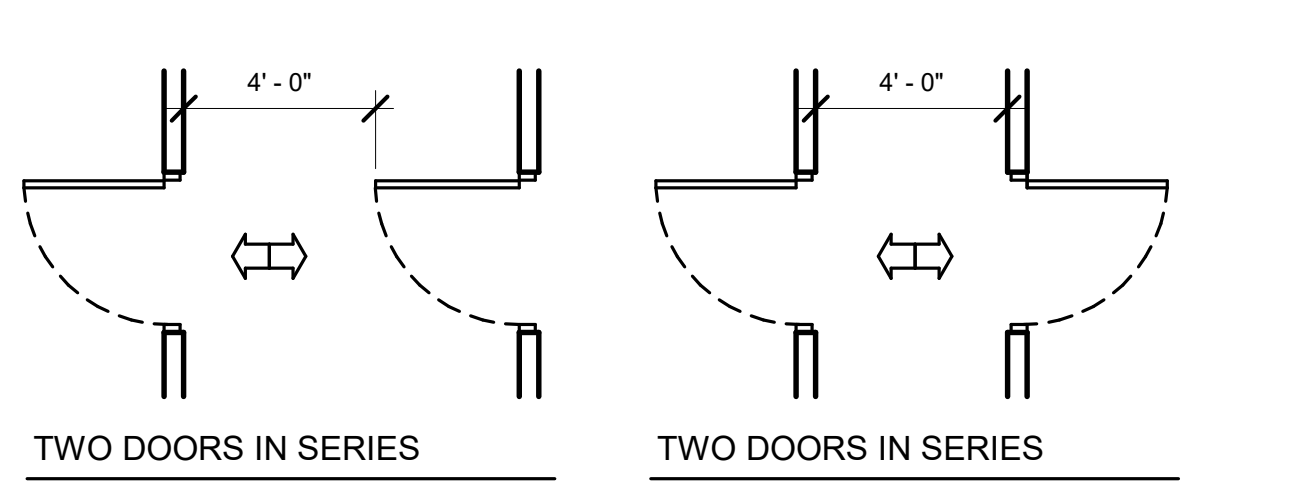
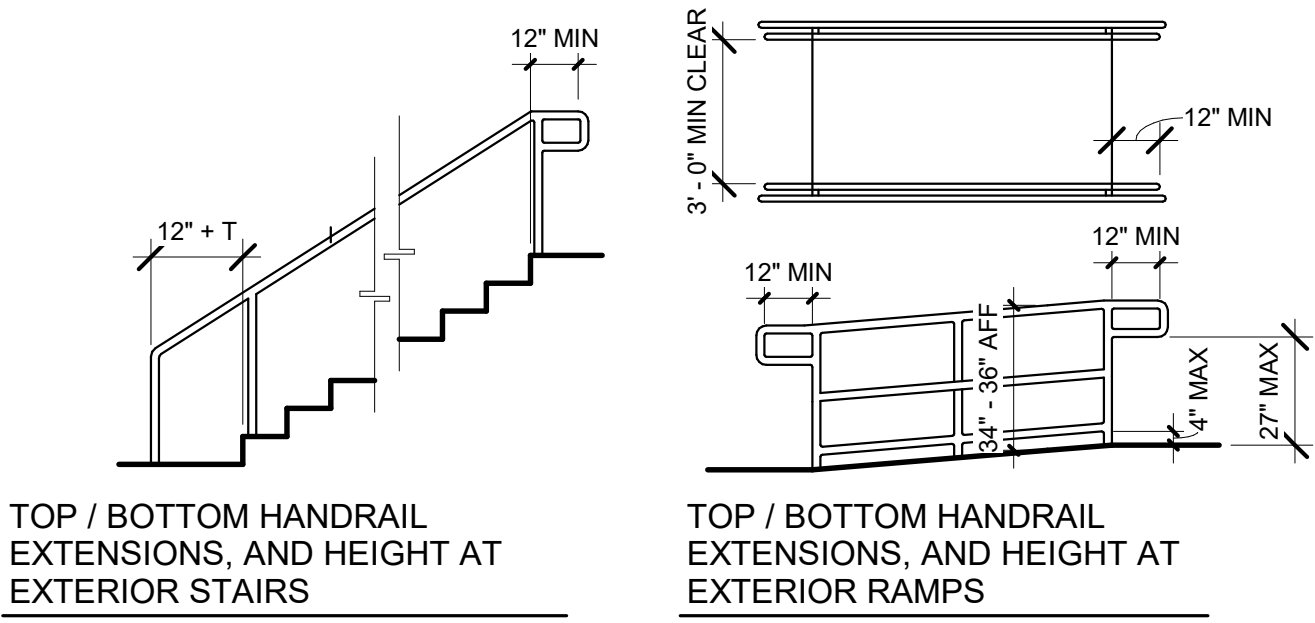
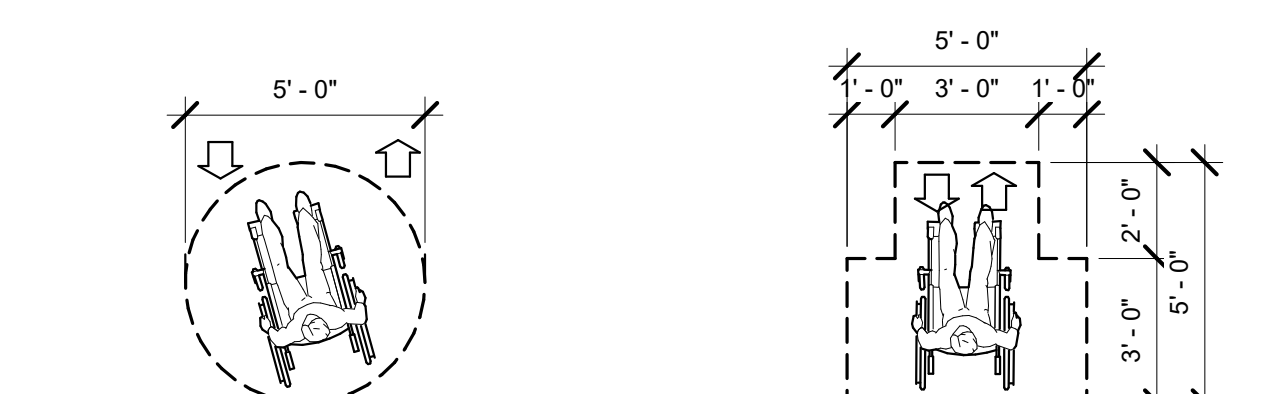
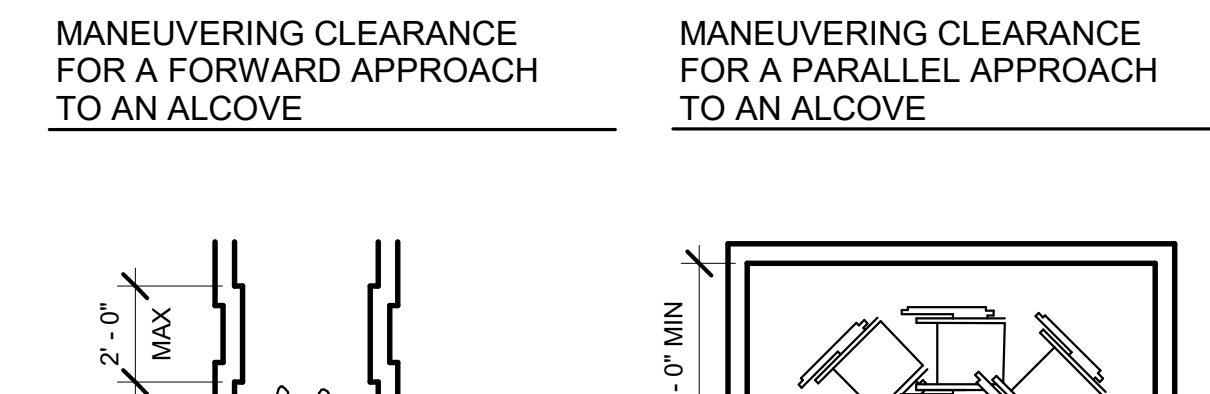
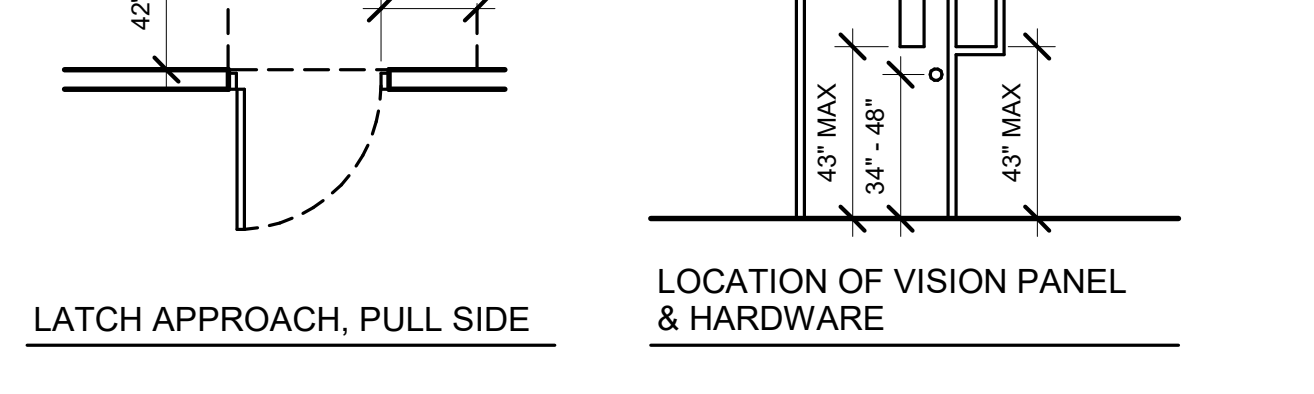
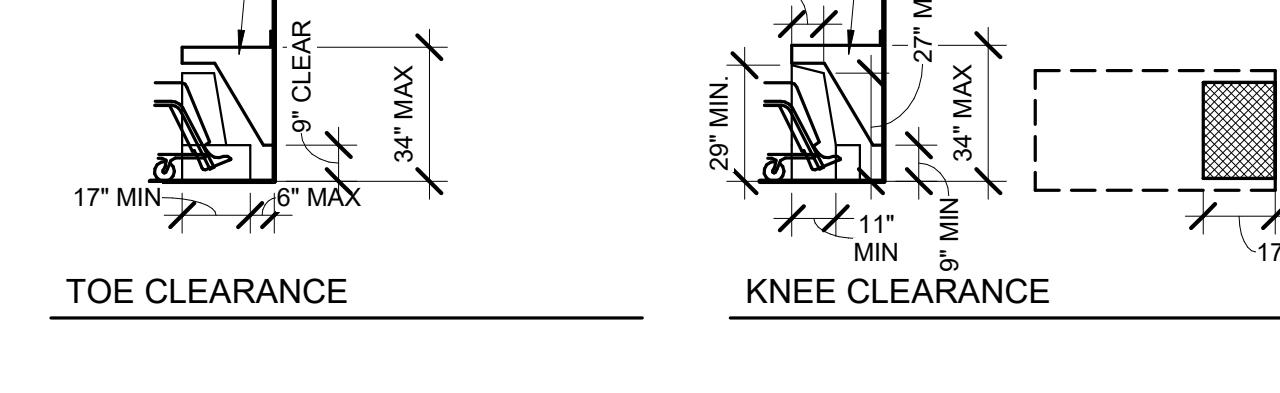
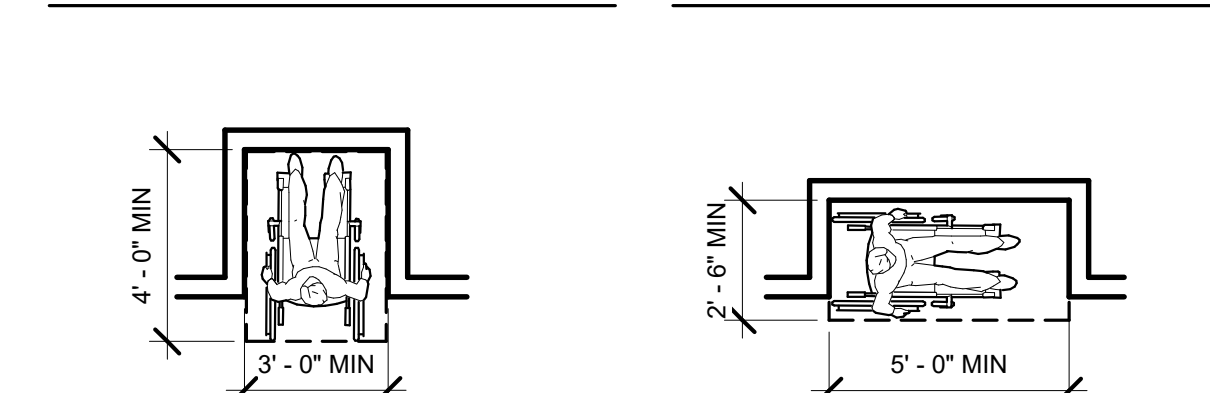
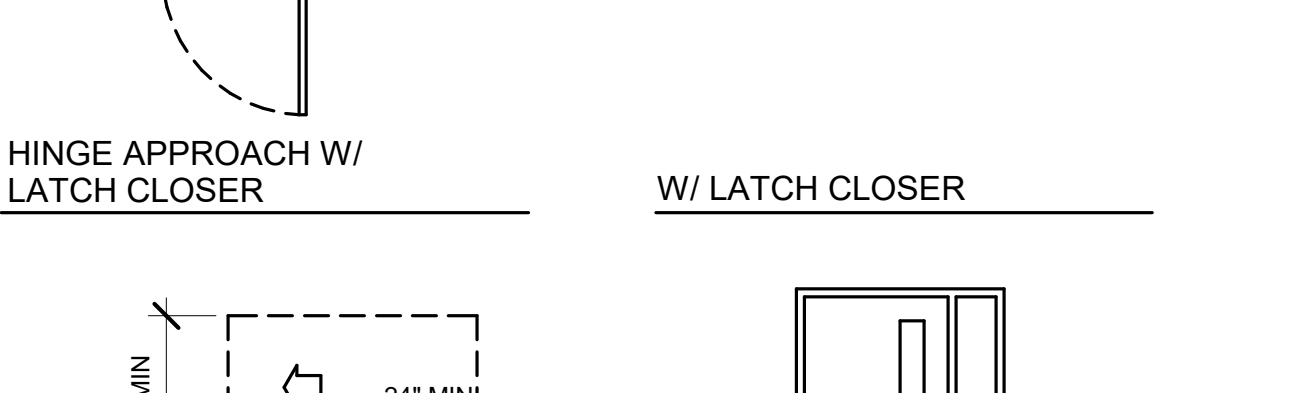
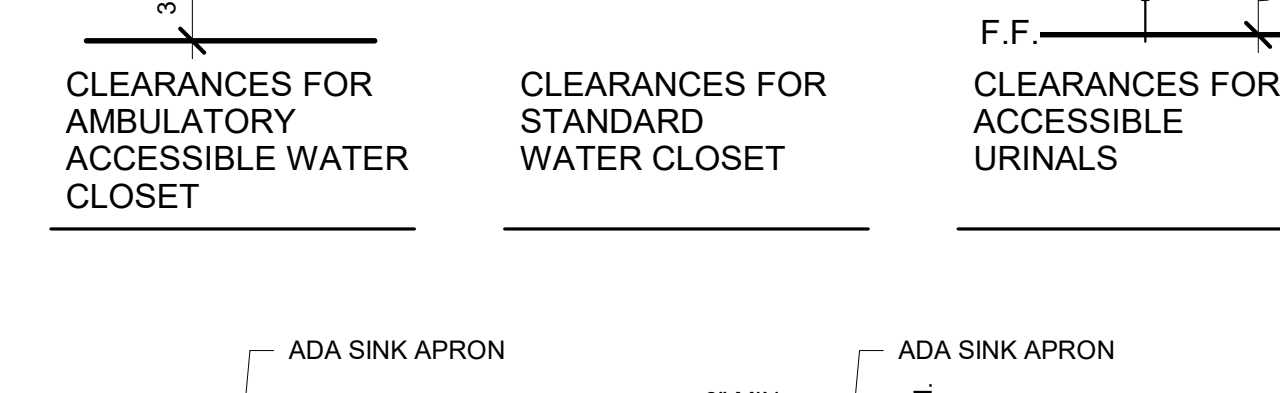
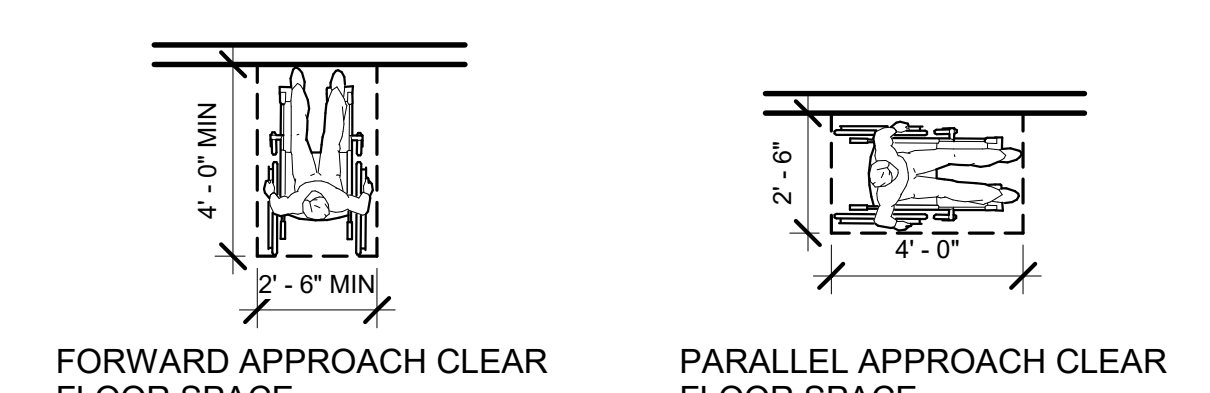
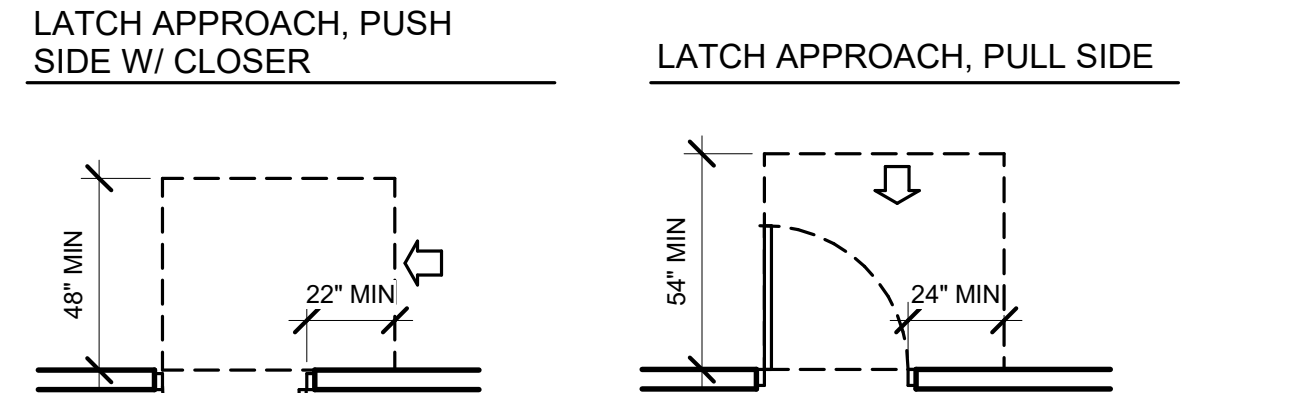
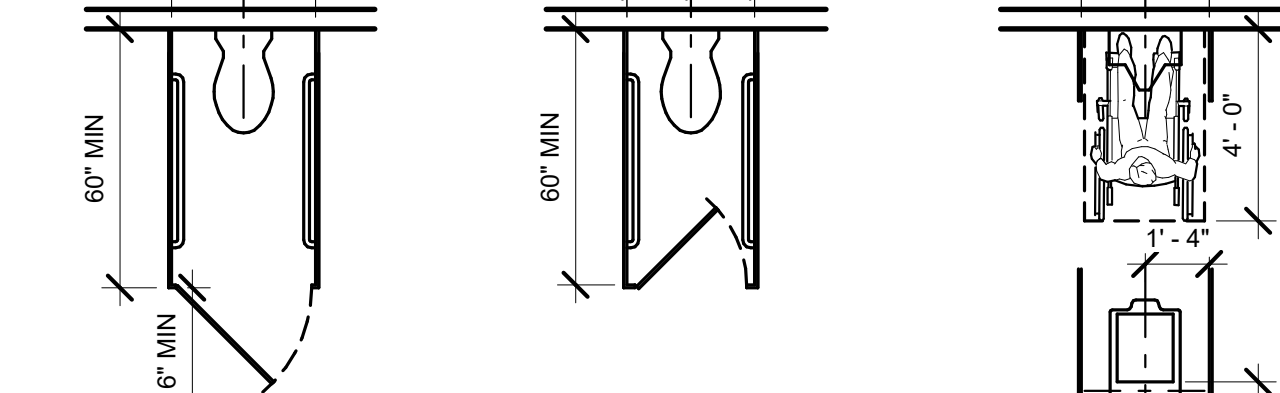
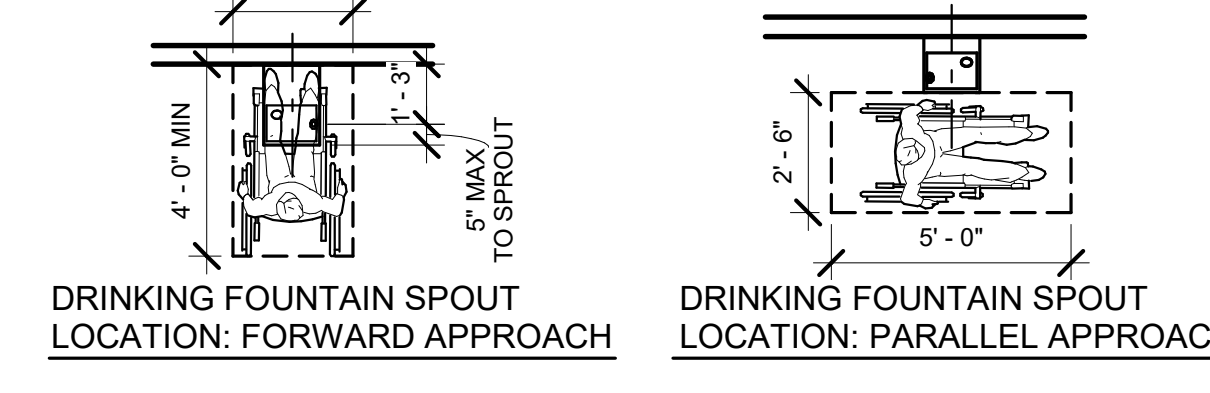
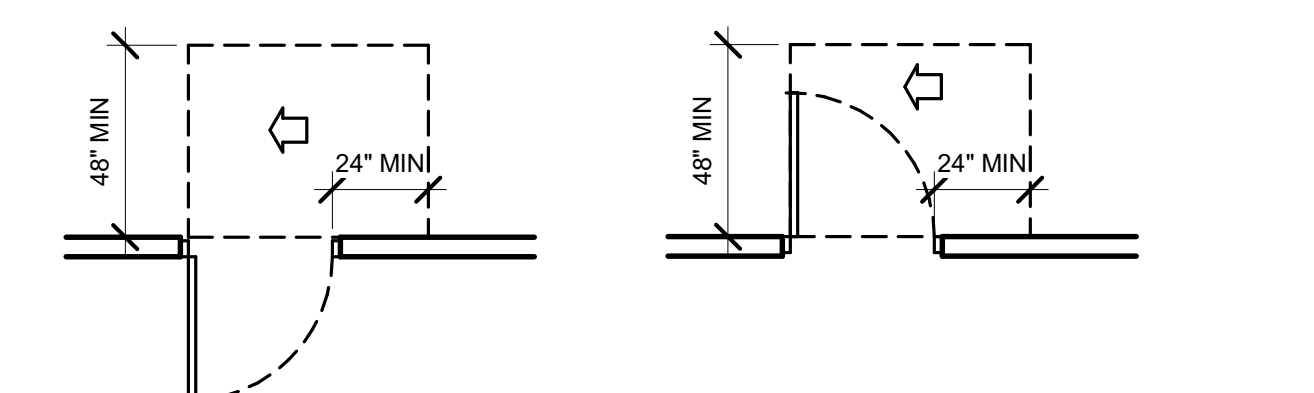
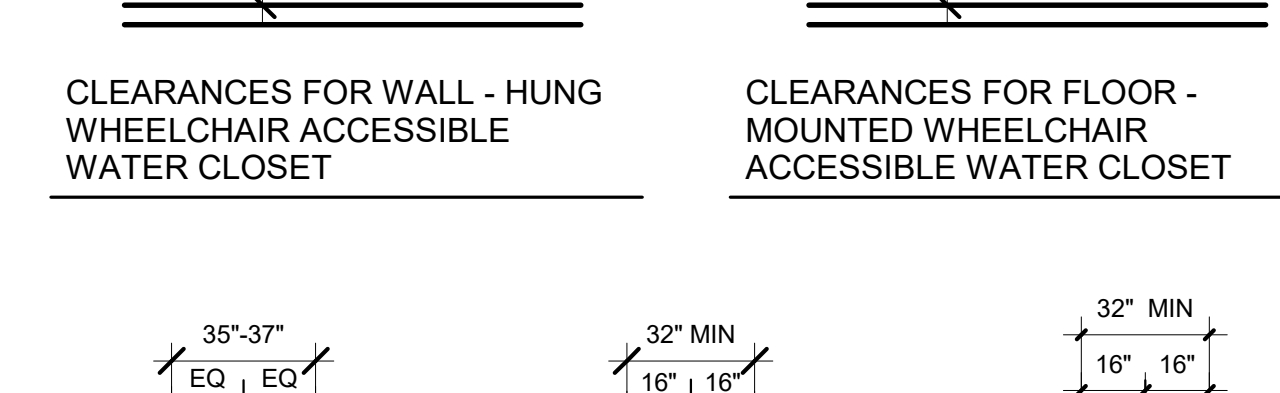
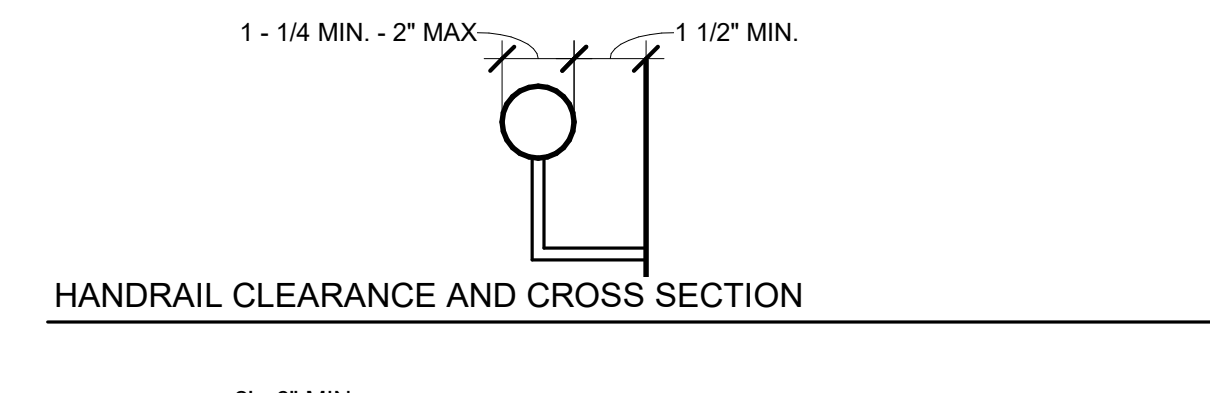
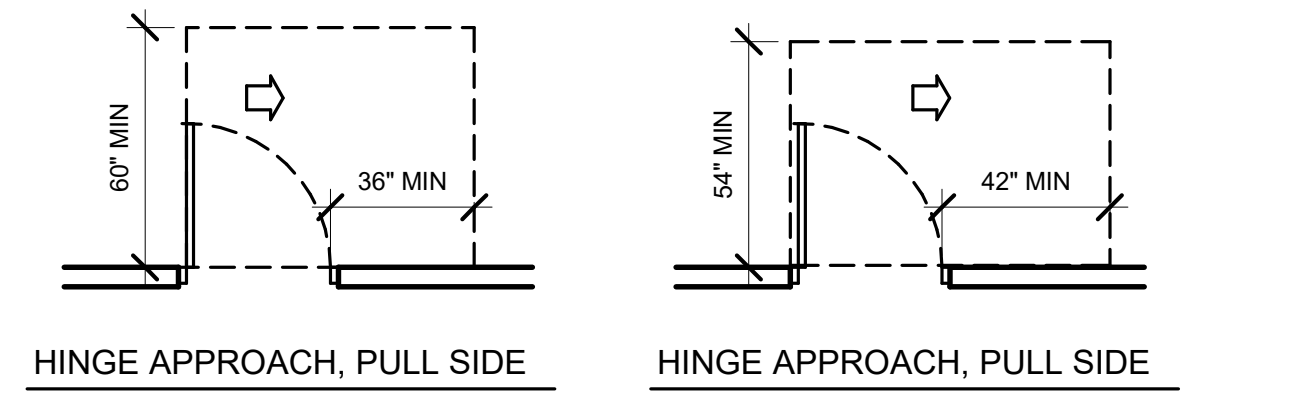
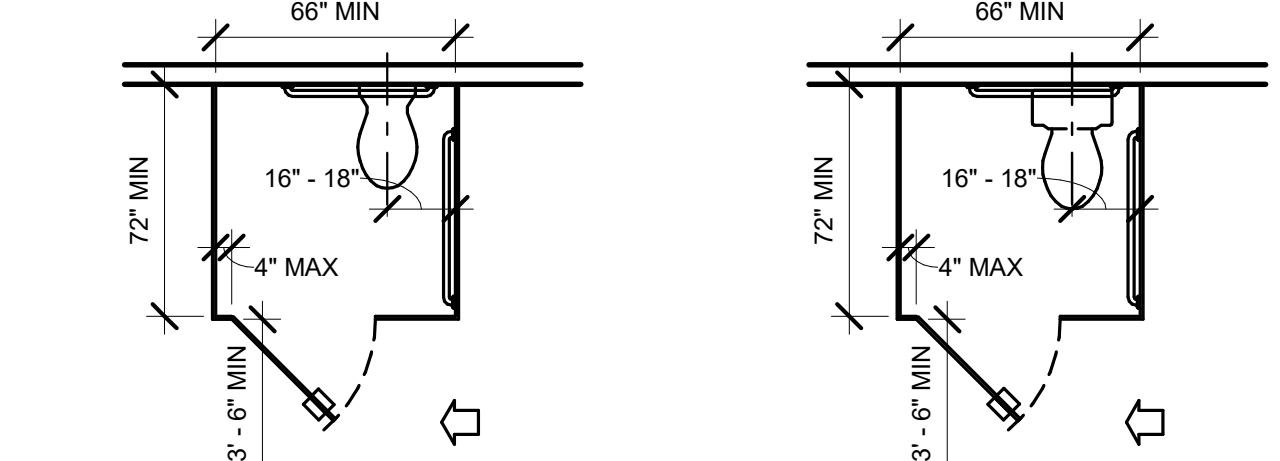
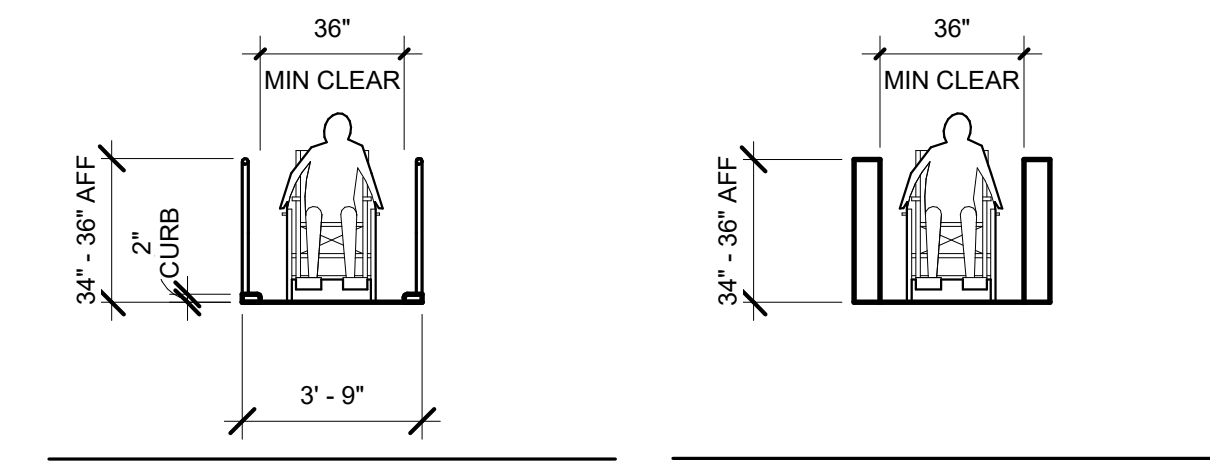
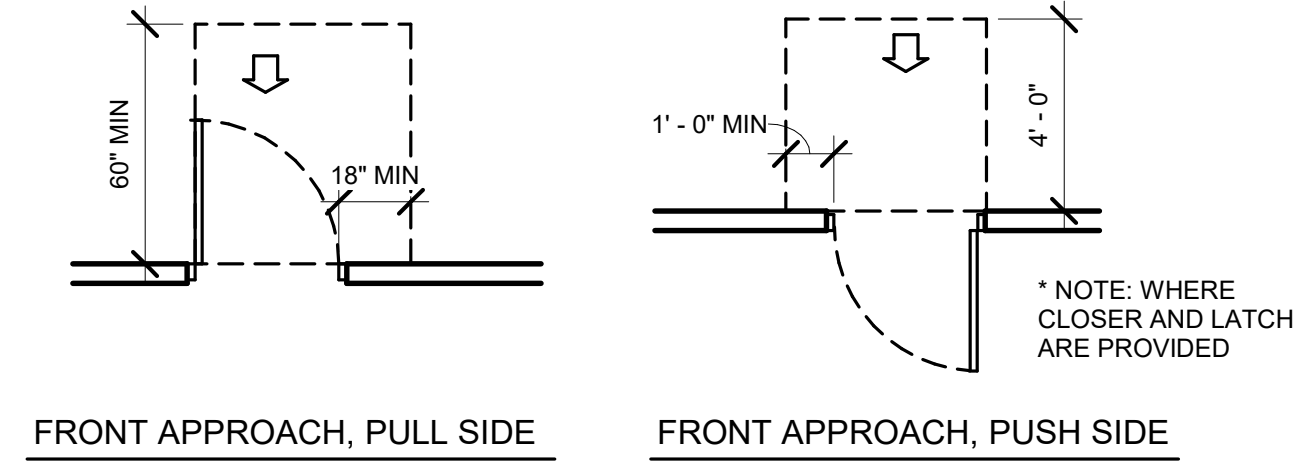
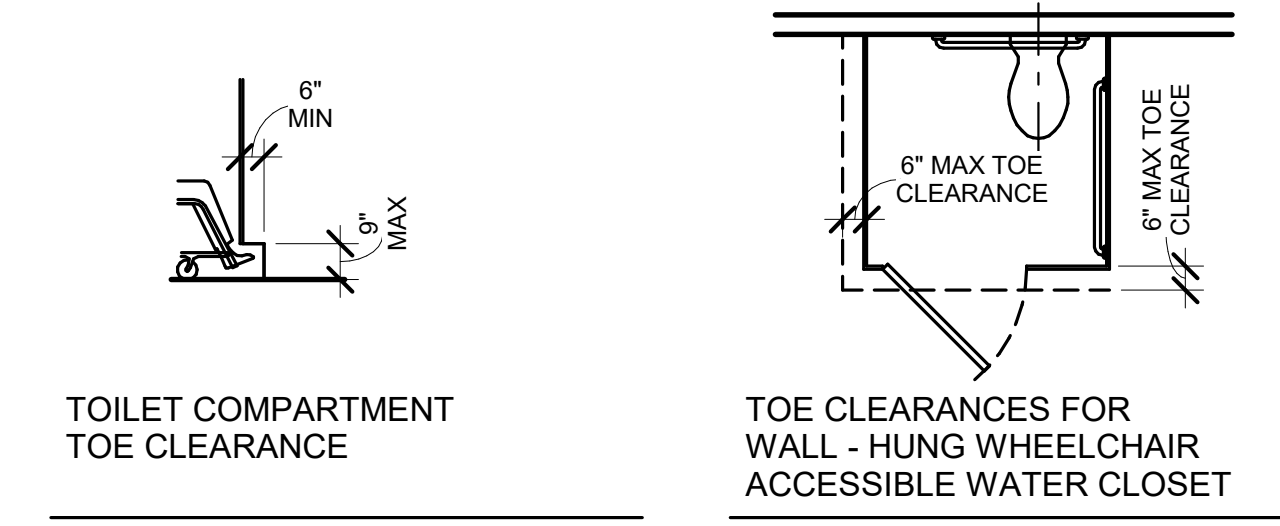
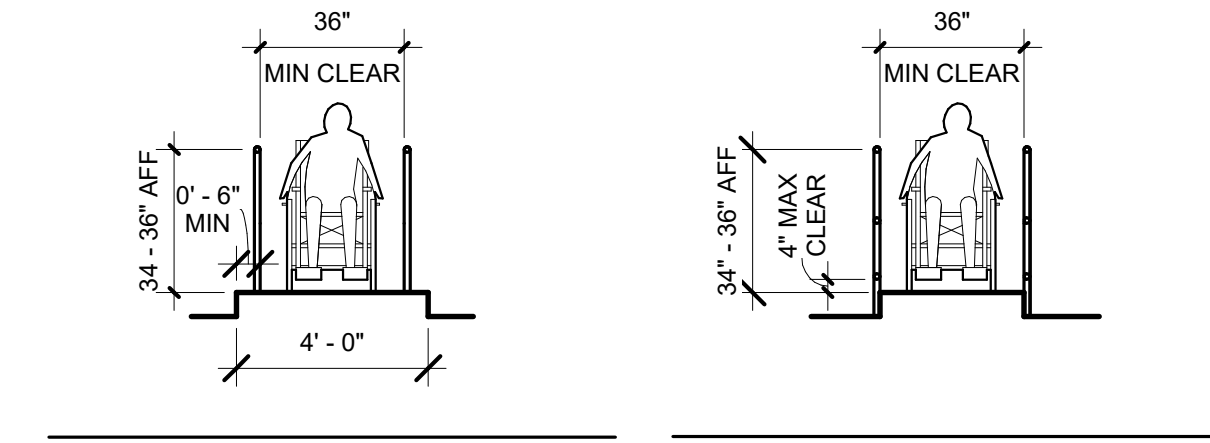
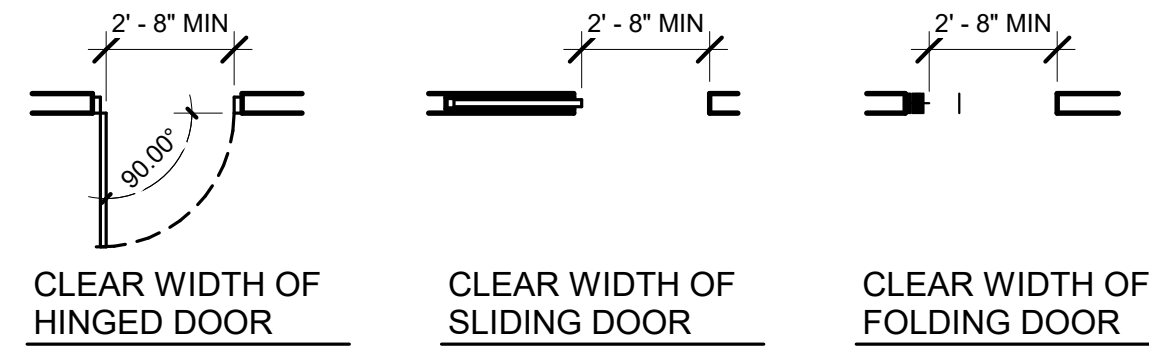
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REVISION: _____
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DATE: _____
ISSUE DATE: 05/03/2024

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DRAWN BY: CSH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS
SHEET TITLE:
AREA PLANS

SHEET NUMBER:
G004
5 OF 272 SHEETS
05/03/2024



PROFESSIONAL SEAL



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63136

PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
**ACCESSIBILITY
STANDARDS**

SHEET NUMBER:

G005

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05/03/2024



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ONE SOUTH MEMORIAL DRIVE
SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
www.oatesassociates.com
Callistoite St. Louis, Berkeley St. Charles
MISSOURI DESIGN FIRM LICENSE NO. 001106



6 SOUTH OLD ORCHARD AVE.
ST. LOUIS, MO 63119
T: 314.918.5363
F: 314.918.1766
www.introba.com

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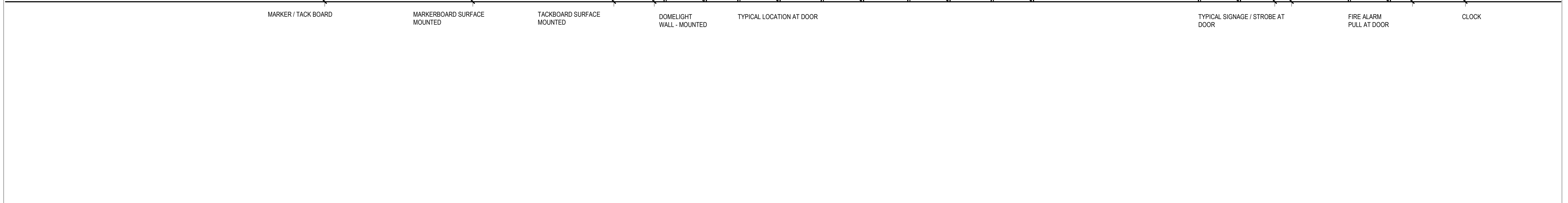
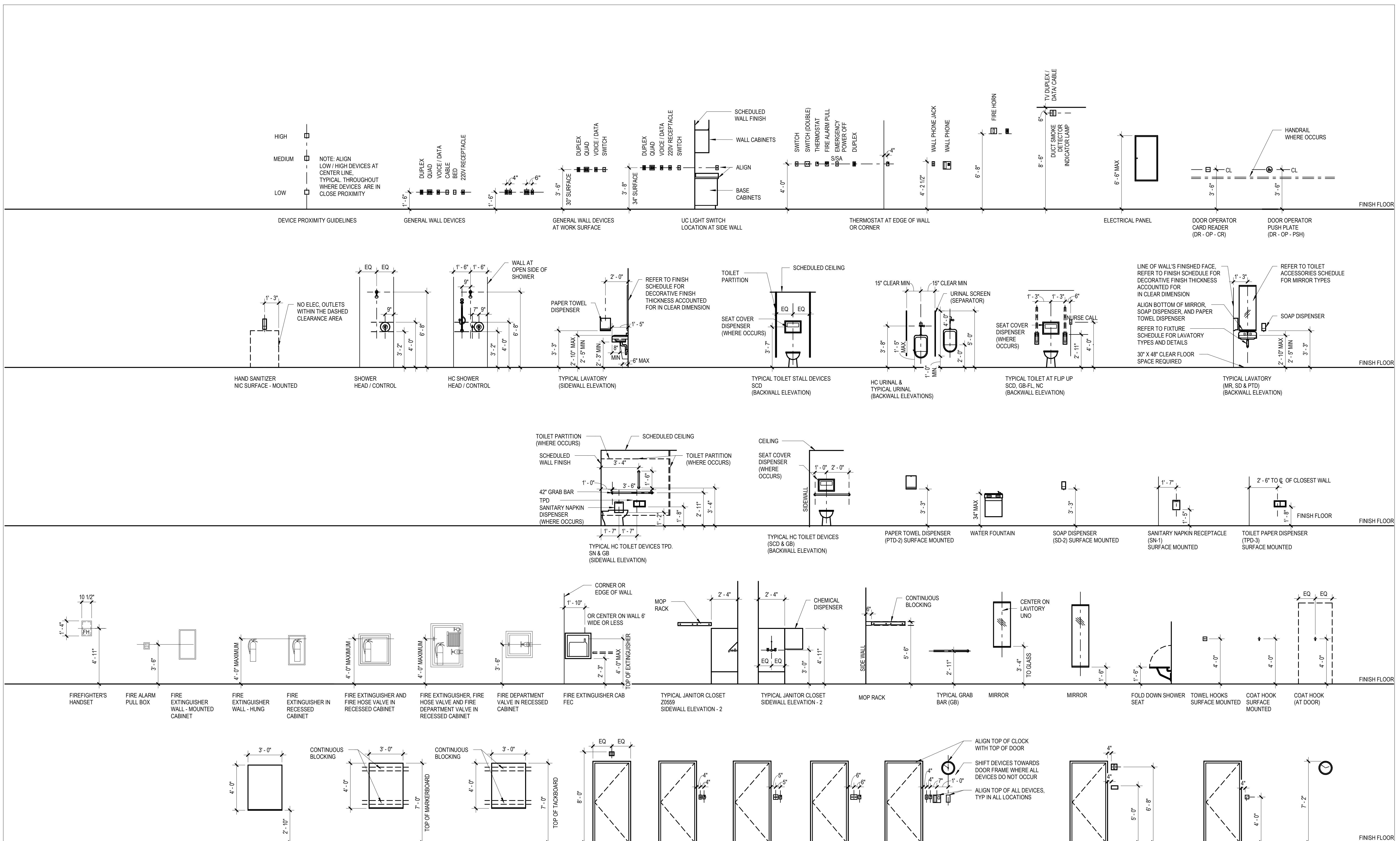
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DRAWN BY: CK
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
STANDARD AND
BARRIER FREE
MOUNTING HEIGHTS

SHEET NUMBER:

G006

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05/03/2024



UTILITIES

- EXISTING UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED TO BE APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO MISSOURI LAW REQUIRES A MINIMUM 48-HOUR NOTICE TO ALL UTILITY COMPANIES BEFORE DIGGING. FIELD LOCATIONS OF UNDERGROUND FACILITIES MAY BE OBTAINED BY THE ONE CALL SYSTEM AT 1-800-DIG-RITE AND PROVIDING 48 HOURS ADVANCE NOTICE. NON-ONE CALL MEMBERS MUST BE CONTACTED DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED BELOW.
- ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER. THE COST OF ANY NECESSARY RELOCATIONS SHALL BE INCURRED BY THE OWNER UNLESS NOTED OTHERWISE AND IF PRIOR AGREEMENTS ARE NOT IN PLACE.
- THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. ALL ARE MEMBERS OF MISSOURI ONE CALL, UNLESS NOTED OTHERWISE.

AMEREN UE (ELECTRIC)
12121 DORSETT ROAD
MARYLAND HEIGHTS, MO 63043
(314) 344-9504

MoDOT ST. LOUIS DISTRICT
1590 WOODLAKE DRIVE
CHESTERFIELD, MO 63017
(314) 340-4119

AT&T (TELEPHONE)
402 NORTH THIRD STREET
SAINT CHARLES, MO 63301
(636) 448-9607

MISSOURI AMERICAN WATER COMPANY
727 CRAIG ROAD
ST. LOUIS, MO 63141
(314) 996-2396

CHARTER COMMUNICATIONS (COMMUNICATIONS)
815 CHARTER COMMONS
TOWN & COUNTRY, MO 63017
(636) 387-6650

SPIRE ENERGY
700 MARKET STREET
ST. LOUIS, MO 63101
(314) 342-0500

METROPOLITAN ST. LOUIS SEWER DISTRICT
2350 MARKET STREET
SAINT LOUIS, MO 63103
(636) 768-6200

THE ABOVE INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE TO THE OWNER AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN PREPARING HIS/HER BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCE CAUSED BY SAME.

MISSOURI ONE CALL SYSTEM, INC.
PHONE: 1-800-DIG-RITE

- THE CONTRACTOR SHALL KEEP ALL UTILITIES IN SERVICE DURING CONSTRUCTION OPERATIONS. MEANS & METHODS TO ACCOMPLISH THIS ARE THE CONTRACTOR'S RESPONSIBILITY, BUT SOME EXAMPLES INCLUDE POTHOLING TO AVOID DISRUPTION, SHORING TO LIMIT EXCAVATION, PUMPING TO MAINTAIN FLOW, AND TEMPORARY SUPPORTING TO MAINTAIN STABILITY.
- SHOULD UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION, THE CONTRACTOR SHALL CONSULT WITH THE UTILITY OWNER AND ENGINEER IMMEDIATELY FOR DIRECTIONS. THE CONTRACTOR SHALL COOPERATE WITH THE SERVICES AND FACILITIES IN OPERATION AND REPAIR DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER. IF THE UTILITY OWNER IS FOUND NOT RESPONSIBLE, THE COST TO REPAIR DAMAGED UTILITIES UNCHARTED OR INCORRECTLY CHARTED WILL BE CONSIDERED AN UNFORESEEN CONDITION AND WILL BE PAID FOR AT AN AGREED UPON PRICE OR ON A TIME AND MATERIAL BASIS.
- ALL EXISTING UTILITY ACCESS COVERS SUCH AS MANHOLES, VALVE BOXES, VAULT COVERS, METER COVERS, AND OTHER SURFACE APPURTENANCES - EVEN IF THERE IS NO SPECIFIC CALLOUT - SHALL BE ADJUSTED TO THE PROPER FINISH GRADE ELEVATION ACCORDING TO THE REQUIREMENTS OF THE AFFECTED UTILITY COMPANY.

GENERAL

- ALL SITE WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS INCLUDING DEPARTMENT OF DEFENSE UNIFIED FACILITIES CRITERIA (UFC) AND WITH THE LATEST EDITION OF THE MISSOURI DEPARTMENT OF TRANSPORTATION'S, "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" AND "HIGHWAY STANDARDS", AND WITH THE LATEST EDITION OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT'S "STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES" IN SO FAR AS THEY APPLY, EXCEPT THAT ALL REFERENCES TO MEASUREMENT AND PAYMENT SHALL BE DELETED.
- ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF BELLEFONTAINE NEIGHBORS AND ST. LOUIS COUNTY MUNICIPAL CODES AND WITH THE LATEST EDITION OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT'S "STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES" UNLESS OTHERWISE PROVIDED HEREIN.
- IF THERE ARE ANY DISCREPANCIES BETWEEN THESE PLANS, SPECIFICATIONS, OR STANDARDS BY GOVERNING BODIES, THE MOST STRINGENT AND RELEVANT REQUIREMENT SHALL BE BINDING AND APPLICABLE.
- UNLESS OTHERWISE INDICATED, THE COST OF WORK REQUIRED UNDER ANY GENERAL, PLAN, OR KEYED NOTE WILL NOT BE PAID FOR SEPARATELY, BUT IT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR THE VARIOUS ITEMS OF WORK INVOLVED.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO ACCOMPLISH THE WORK. NO CONSTRUCTION ACTIVITIES SHALL BE PERFORMED UNTIL ALL NECESSARY PERMITS HAVE BEEN SECURED. THE COST OF THE PERMITS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- ALL CONSTRUCTION SHALL CONFORM TO THE PLANS AND SPECIFICATIONS. IF THE CONTRACTOR CHOOSES TO MAKE MODIFICATION DURING CONSTRUCTION, EVEN IF THE WORK IS AFFECTED BY OMISSION OR DISCREPANCY, WITHOUT THE APPROVAL OF THE ENGINEER, HE/ SHE IS MAKING SUCH CHANGES AT HIS/ HER OWN RISK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY CHANGES FROM THE APPROVED DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION LAYOUT AND MATERIAL TESTING NECESSARY TO COMPLETE THE PROJECT TO THE PLANS AND SPECIFIED TOLERANCES.
- AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS FOR THE OWNER'S RECORDS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD, INCLUDING POTHOLING POTENTIAL UTILITY CONFLICTS, PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE CONSTRUCTION SITE FREE OF DEBRIS AT ALL TIMES AND SHALL KEEP DIRT/ MUD OFF ALL PUBLIC STREETS ADJACENT TO THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE AREA SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

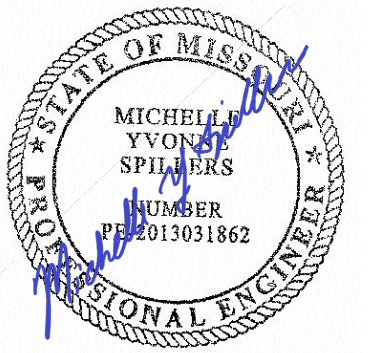
GENERAL (continued)

- THE CONTRACTOR SHALL FERTILIZE, SEED, AND MULCH ALL EARTH SURFACES DISTURBED BY CONSTRUCTION, EXCEPT AS NOTED OTHERWISE IN THE PLANS. FERTILIZE, SEED, AND MULCH WITHIN THE CONSTRUCTION LIMITS AS PROVIDED IN THE CONTRACT. FERTILIZER, SEEDING, AND MULCH OUTSIDE THESE LIMITS DUE TO CONSTRUCTION ENCROACHMENTS SHALL BE RESTORED TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
- IF INDICATED, A PORTION OF THE CONSTRUCTION SITE MAY BE USED AS A STAGING AND CONTRACTOR PARKING AREA. IF SIDEWALKS, LAWNS, DRIVEWAYS, OR ANY OTHER AREA WITHIN OR IN THE HAUL PATH FROM THE STAGING AREA ARE DAMAGED BY THE CONTRACTOR, THEY SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
- CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED ON THE PROPOSED CONSTRUCTION SITE AND NOT ON ANY PUBLIC STREET OR RIGHT OF WAY OUTSIDE THE DESIGNATED CONSTRUCTION ZONE.
- THE CONTRACTOR SHALL STAGE ALL WORK TO MAINTAIN INGRESS AND EGRESS TO ALL ADJACENT BUILDINGS AND PROPERTIES AT ALL TIMES DURING CONSTRUCTION. AGGREGATE FOR TEMPORARY ACCESS OR OTHER TEMPORARY ELEMENTS MAY BE REQUIRED TO ACCOMPLISH REQUIREMENT.
- THE CONTRACTOR SHALL PROVIDE A PORTABLE RESTROOM FACILITY WITHIN THE CONSTRUCTION LIMITS. ADJACENT BUILDING RESTROOMS ARE NOT AVAILABLE FOR USE.
- THE CONTRACTOR SHALL PROVIDE THE NECESSARY SIGNS AND BARRICADES AT THE PROJECT ENTRANCES TO PREVENT PUBLIC ENTRY. ALL MATERIAL PILES, EQUIPMENT, OPEN EXCAVATIONS OR THEIR OBSTRUCTIONS, OR HAZARDS TO MOTORISTS OR PEDESTRIANS SHALL BE ENCLOSED BY FENCES OR PROTECTED BY BARRICADES. BARRIER SHALL BE EITHER 4' TALL SNOW FENCE WITH T-POSTS SPACED ON 5' CENTERS, CHAIN LINK FENCE ON STANDS, OR OTHER PRE-APPROVED METHODS. CAUTION TAPE IS NOT CONSIDERED ADEQUATE TO PROTECT EXCAVATIONS.
- THE CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE AND INSTALL OTHER EROSION CONTROL ITEMS AS SHOWN ON THE "STORMWATER POLLUTION PREVENTION PLAN" AND AS DIRECTED BY THE ENGINEER. TO CONTROL SITE RUNOFF, THE ENGINEER MAY REQUEST EROSION CONTROL ITEMS NOT SHOWN ON THE PLANS AT NO ADDITIONAL COST TO THE CONTRACT WHEN STAGED OPERATIONS CREATE A TEMPORARY CONDITION THAT WOULD ALLOW OFFSITE EROSION IF NOT CONTAINED.
- THE UNITED STATES ACCESS BOARD, PROWAG 2011 AND THE DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN SHALL GOVERN ALL ACCESS ROUTE IMPROVEMENTS.
- THE CONTRACTOR SHALL GUARANTEE ALL WORK, MATERIALS, AND LABOR ASSOCIATED WITH THIS WORK FOR A PERIOD OF ONE (1) YEAR.

REMOVALS

- THE CONTRACTOR SHALL INSPECT AND ACCEPT THE SITE CONDITIONS PRIOR TO MOBILIZATION. DOCUMENTATION FOR ANY CONCERNS SHALL BE PROVIDED TO OWNER IN WRITING AND WITH PHOTOGRAPHS PRIOR TO MOBILIZATION. NO ADDITIONAL PAYMENT WILL BE MADE FOR REPAIR OF DAMAGED EXISTING FEATURES TO REMAIN THAT WERE NOT ADDRESSED BEFORE THE CONTRACTOR ASSUMED THE SITE FROM THE OWNER.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL EXISTING FEATURES SUCH AS SIGNS, PAVEMENT, CURB, AND TREES FROM DAMAGE. IF ANY FEATURE TO REMAIN IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. IF ANY PROPERTY MARKER IS TO REMAIN AND IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE ENGINEER OR OWNER.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING FEATURES INCLUDING BUT NOT LIMITED TO PAVEMENT, CURB, SIDEWALK, DRIVEWAY PAVEMENT, CULVERTS, HEADWALLS, RIPRAP, AND FENCING, WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION UNLESS NOTED OTHERWISE ON THE PLANS. ALL FEATURES WHICH ARE TO BE REMOVED AND FOR WHICH THERE IS NOT A SPECIFIC CALLOUT, WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.
- THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN AND AVOID COMPACTING THE AREA UNDER THE TREE'S DRIPLINE. IF TREE ROOTS ARE ENCOUNTERED, THEY SHALL BE SAWN OFF AT THE EDGE OF THE EXCAVATION RATHER THAN RIPPED WITH EQUIPMENT.
- ANY EXCESS EARTH EXCAVATION SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED.
- FULL DEPTH SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM INVOLVED.
- ALL PAVEMENT REMOVAL SHALL BE REMOVED TO THE NEAREST EXISTING JOINT LOCATION. NO PARTIAL SLAB REMOVALS WILL BE ALLOWED.
- THE CONTRACTOR SHALL REMOVE, MAINTAIN IN A TEMPORARY LOCATION, AND PERMANENTLY RESET ALL MAILBOXES, TRAFFIC SIGNS, STREET NAME SIGNS, AND ALL PRIVATE AND COMMERCIAL SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL REMOVE TRAFFIC SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND RE-ERECT THEM AT TEMPORARY LOCATIONS TO SAFELY MAINTAIN TRAFFIC CONTROL THROUGHOUT THE CONSTRUCTION PERIOD. AS SOON AS CONSTRUCTION OPERATIONS ALLOW, ALL TRAFFIC SIGNS SHALL BE PERMANENTLY LOCATED.
- WHERE TREE REMOVAL CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CUT THE TREE OFF AT THE GROUND LINE AND GRIND THE STUMP AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE COMPLETELY REMOVING TREES AND ROOTS UNDER PAVED SURFACES.
- ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR AND REPLACED WITH SUITABLE MATERIAL AS APPROVED BY THE ENGINEER. UNLESS NOTED OTHERWISE IN THE PLANS OR GEOTECHNICAL REPORT, THE COST TO REMOVE AND REPLACE UNSUITABLE MATERIAL WILL BE CONSIDERED AN UNFORESEEN CONDITION AND WILL BE PAID FOR AT AN AGREED UPON PRICE OR ON A TIME AND MATERIAL BASIS.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



DATE: 05/03/2024
EXPIRES: 12/31/2025

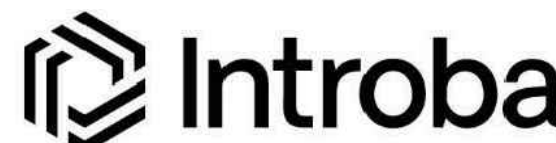


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SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



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St. Louis, MO 63101
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DEPARTMENT OF PUBLIC SAFETY

MISSOURI ARMY NATIONAL GUARD

CONSTRUCT BELLEFONTAINE READINESS CENTER

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BLVD, ST. LOUIS, MO
63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
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ISSUE DATE: 05/03/2024

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DRAWN BY: SW3
CHECKED BY: MYS
DESIGNED BY: SW3

SHEET TITLE:

General Notes

SHEET NUMBER:

C001

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05/03/2024

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4

EARTHWORK & GRADING

1. THE WORK INCLUDES THE REMOVAL OF EXISTING BITUMINOUS (OIL & CHIP) ROADWAY SURFACE AND AGGREGATE BASE. THE CONTRACTOR MAY INCORPORATE THESE MATERIALS INTO THE PROPOSED EMBANKMENT AS LONG AS IT IS NOT USED IN THE TOP 12" OF A LAWN AREA.
2. PRIOR TO STARTING EARTHWORK OPERATIONS IN AREAS THAT DO NOT REQUIRE EXCAVATION, THE EXISTING BITUMINOUS (OIL & CHIP) ROADWAY SURFACE SHALL BE SCARIFIED OR BROKEN BY MECHANICAL MEANS, REDUCING ALL PARTICLES TO A SIZE NOT LARGER THAN 3 INCHES IN THE LARGEST DIMENSION.
3. THE CONTRACTOR SHALL CONTACT THE ENGINEER DURING SUBGRADE PREPARATION AND PRIOR TO SOIL MODIFICATION TO DETERMINE THE NECESSITY OF THE PROPOSED SUBGRADE IMPROVEMENT. IF THE SUBGRADE IS FOUND TO REQUIRE OR NOT TO REQUIRE REMEDIAL PROCEDURES, SOIL MODIFICATION AND MODIFIER MAY BE ADDED OR DELETED.
4. PRIOR TO COMPACTION AND THE PLACEMENT OF PAVEMENT BASE COURSE LAYERS, THE CONTRACTOR SHALL PREPARE A DRY, STABLE SUBGRADE BY DISKING OR OTHERWISE AERATING THE SOIL. WHEN AIR DRYING IS NOT FEASIBLE, THE CONTRACTOR MAY USE A MOISTURE REDUCING CHEMICAL ADDITIVE SUCH AS HYDRATED LIME TO ADJUST THE MOISTURE IN THE SOIL AT NO ADDITIONAL COST TO THE CONTRACT.
5. AT THE BEGINNING OF CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL STRIP THE TOP 6" OF EXISTING LAWN AREAS TO SALVAGE EXISTING, CLEAN TOPSOIL FOR USE DURING FINAL GRADING AND LAWN RESTORATION. THE CONTRACTOR SHALL STOCKPILE THE TOPSOIL AS INDICATED ON THE PLANS OR AT AN AGREED UPON LOCATION.
6. TOPSOIL SHALL BE SPREAD EVENLY (4" MIN.) OVER ALL THE LAWN AREAS WITHIN THE SITE TO MEET THE FINAL GRADE PRIOR TO CONCLUDING EARTHWORK OPERATIONS. TOPSOIL MAY CONSIST OF SALVAGED TOPSOIL, EXISTING TOPSOIL AMENDED WITH 2" OF IMPORTED COMPOST, AND/OR BE IMPORTED FROM PRE-APPROVED SOURCES AS NEEDED FOR SUPPLEMENTATION.
7. FOR LAWN AREAS, SEED SHALL BE AS NOTED ON LANDSCAPE PLANS. FERTILIZER SHALL BE APPLIED AT A RATE OF 1:1:1 AT 6# OF NUTRIENT PER 1,000-SF. STRAW MULCH SHALL BE BROADCAST OVER ALL AREAS THAT ARE SEEDED. MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE AND CRIMPED TO THE EARTH FOR STABILIZATION.
8. THE LAWN SHALL BE ESTABLISHED TO A 95% LEVEL WITH NO INDIVIDUAL BARE SPOTS LARGER THAN 6"X6" IN SIZE AFTER ONE GROWING SEASON (APRIL TO MAY OR SEPTEMBER TO OCTOBER).
9. DURING GRADING OPERATIONS, THE SURFACE SHALL BE SMOOTH AND NOT BE LEFT TO IMPOUND WATER IF THERE MAY BE RAIN PRIOR TO THE NEXT WORKING DAY. IF THE SURFACE IS FINISHED SMOOTH FOR ANY REASON, IT SHALL BE SCARIFIED BEFORE PROCEEDING WITH THE PLACEMENT OF SUCCEEDING EARTH LIFTS.
10. DEWATERING OF EXCAVATION AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION FROM NEW AREAS TO ADJACENT, EXISTING AREAS AS NECESSARY.

PAVING & PAVEMENT MARKING

1. THE CONTRACTOR SHALL USE HIGH EARLY STRENGTH CONCRETE MIX OR CONSTRUCT PATCHING AT ENTRANCES HALF AT A TIME FOR THE CONSTRUCTION OF ENTRANCES THAT AFFECT ACCESS TO ABUTTING PROPERTIES.
2. PAVEMENT MARKING LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. PROPOSED PAVEMENT MARKINGS MAY BE ADJUSTED BY THE CONTRACTOR, AS APPROVED BY THE ENGINEER, TO MATCH FIELD CONDITIONS.
3. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MODOT HIGHWAY STANDARDS AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). ALL PAVEMENT MARKINGS SHALL BE WHITE, EXCEPT HANDICAP PARKING STALLS AND PAINTED ISLANDS, WHICH SHALL BE YELLOW.
4. THE CONTRACTOR SHALL APPLY REFLECTIVE GLASS BEADS TO ALL PAVEMENT MARKINGS.

DRAINAGE

1. TO PROVIDE A FULLY FUNCTIONAL PROJECT, THE CONTRACTOR SHALL MAKE WATERTIGHT CONNECTIONS AND MAKE NECESSARY ADJUSTMENTS TO EXISTING DRAINAGE STRUCTURES AS PART OF THE WORK. CONNECTIONS TO EXISTING DRAINAGE STRUCTURES SHALL CONSIST OF CONCRETE COLLARS.
2. STORM SEWER INVERTS SHOWN ON THE PLANS ARE AT THE CENTER OF THE STRUCTURE. THE STORM SEWER SLOPES SHOWN ON THE PLANS ARE THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF STORM SEWERS SHOWN ON THE PLANS IS THE DISTANCE FROM CENTER TO CENTER OF STRUCTURE. FLARED END SECTIONS ARE HORIZONTALLY AND VERTICALLY LOCATED AT THE MIDPOINT AT END OF THE FLARED END SECTION.
3. THE OFFSETS TO ALL INLETS, MANHOLES, AND STRUCTURES ARE GIVEN TO THE CENTER OF THE OPENING AT THE BASE OF THE FRAME AND GRATE OR LID OR TO THE EDGE OF PAVEMENT AS NOTED. CONCENTRIC DRAINAGE STRUCTURES WERE ASSUMED WHEN PLACING THESE ELEMENTS ON THE PLANS.
4. STORM SEWERS AND CULVERTS MAY HAVE MINIMAL DEPTH BELOW THE SOIL SUBGRADE LAYER. THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS ARE NECESSARY TO PROTECT THE PIPES FROM DAMAGE DURING HAULING AND/ OR DURING THE SOIL MODIFICATION OR CONDITIONING PROCESS. IF THE PIPES ARE DAMAGED, THEY SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
5. ALL DRAINAGE STRUCTURES CONSTRUCTED, ADJUSTED, OR RECONSTRUCTED UNDER THE CONTRACT, SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS OR FOREIGN MATTER AT THE END OF EACH WORKING DAY AND AT THE TIME OF FINAL INSPECTION. THE EXISTING STRUCTURE ONE REACH IMMEDIATELY DOWNSTREAM SHALL ALSO BE CLEANED.
6. FOR SEWERS WITH A DESIGN GRADE OF LESS THAN ONE PERCENT (1%), FIELD VERIFICATION OF THE STORM SEWER GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. VERIFICATION SHALL BE BY VISUAL INSPECTION, LASER LEVEL, FIELD SURVEY, OR TELEVISIONING THE PIPE WITH CAMERAS TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
7. MANHOLES AND DRAINAGE STRUCTURES MAY BE ADJUSTED WITH GRADE RINGS FOR ADJUSTMENTS UP TO TWELVE (12) INCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADJUSTMENTS REQUIRED TO MATCH FINISHED GRADE.
8. ALL PIPE TRENCHES UNDER AND WITHIN 2 FEET OF PAVED AREAS SHALL BE BACKFILLED TO FINAL GRADE WITH COARSE AGGREGATE IN ACCORDANCE WITH THE SPECIFICATIONS.
9. A MINIMUM 10-FOOT HORIZONTAL AND 18-INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL WATER AND SEWER MAINS. WHERE PHYSICAL CONSTRAINTS PREVENT THIS REQUIREMENT FROM BEING MET, ALTERNATIVE METHODS FOR PREVENTING CROSS-CONTAMINATION BETWEEN THE SEWER AND WATER MAIN SHALL BE PROVIDED IN ACCORDANCE WITH THE METROPOLITAN ST. LOUIS SEWER DISTRICT'S STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES AND AS APPROVED BY THE ENGINEER.

EROSION CONTROL

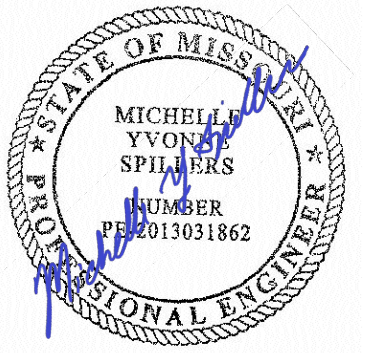
1. THE CONSTRUCTION OF THIS PROJECT WILL BE GOVERNED BY THE CONDITIONS OF THE GENERAL NPDES STORMWATER PERMIT ISSUED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES. HOWEVER, A "STORMWATER POLLUTION PREVENTION PLAN" HAS BEEN PREPARED BY THE ENGINEER IN CONJUNCTION WITH THIS PLAN SET. THE "STORMWATER POLLUTION PREVENTION PLAN" CONTAINS INFORMATION SUCH AS REQUIRED SEQUENCE OF CONSTRUCTION, SEED, FERTILIZER AND LIME APPLICATION RATES AND PROCEDURES, AND PROVISION FOR MAINTENANCE OF EROSION CONTROL STRUCTURES AND MEASURES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP A COPY OF THE PLAN AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES, AND TO ENSURE COMPLIANCE WITH THE PLAN.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SILTATION CONTROL, AS NEEDED, TO PREVENT SILTATION OF OFF SITE PROPERTIES, UNTIL THE VEGETATION IN ALL DISTURBED AREAS HAS BEEN ESTABLISHED (75% COVERAGE OR MORE), AT WHICH TIME HE/SHE SHALL BE RESPONSIBLE FOR REMOVAL OF ALL TEMPORARY SILTATION CONTROL AND REPAIR OF ANY ERODED AREAS. EROSION CONTROL MEASURES SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH APPLICABLE PLAN DETAILS. NO CONSTRUCTION ACTIVITIES SHALL BE PERFORMED UNTIL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED ON AND ADJACENT TO THE PROJECT SITE.
3. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES BY WATERING OR USING SLURRY MATERIALS DUE TO THE PROXIMITY OF ADJACENT BUILDINGS. THE CONTRACTOR SHALL WATER THE SITE FREQUENTLY AS NEEDED AND IF DIRECTED BY THE ENGINEER.
4. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE, SILT PANELS, ROLLED EXCELSIOR, SILT WEDGES, OR OTHER PRE-APPROVED MATERIALS. HAY BALES SHALL NOT BE PERMITTED.
5. THE CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE DETAIL IN THE PLANS.

METROPOLITAN ST. LOUIS SEWER DISTRICT (MSD) NOTES:

1. BACKWATER VALVE NOTE: A BACKWATER VALVE SHALL BE REQUIRED ON ALL BUILDING LATERALS PER LOCAL PLUMBING CODE.
2. CONSTRUCTION SITE RUNOFF: CONSTRUCTION SITE RUNOFF SHALL NOT FLOW INTO BMP AREAS. ALL STORMWATER FLOW TO BMP AREAS SHALL BE DIVERTED, PLUGGED OR DISCONNECTED UNTIL THE CONSTRUCTION SITE IS STABLE AND THE MSD INSPECTOR PROVIDES APPROVAL TO PLACE THE BMP ON-LINE.
3. CONTRACTOR'S INSURANCE (OFFSITE): PRIOR TO OBTAINING A CONSTRUCTION PERMIT FROM THE METROPOLITAN ST. LOUIS SEWER DISTRICT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE DISTRICT WITH A COPY OF AN EXECUTED CERTIFICATE OF INSURANCE INDICATING THAT THE PERMITTEE HAS OBTAINED AND WILL CONTINUE TO CARRY COMMERCIAL GENERAL LIABILITY AND COMPREHENSIVE AUTO LIABILITY INSURANCE. THE REQUIREMENTS AND LIMITS SHALL BE AS STATED IN THE RULES AND REGULATIONS AND ENGINEERING DESIGN REQUIREMENTS FOR SANITARY AND STORMWATER DRAINAGE FACILITIES, SECTION 10.090.
4. FILL OR REMOVE ABANDONED SEWER: ABANDONED SEWERS SHALL BE REMOVED OR COMPLETELY FILLED WITH GROUT.
5. GREASE INTERCEPTOR: GREASE INTERCEPTOR TO BE LOCATED IN AN ACCESSIBLE LOCATION FOR MSD INSPECTION. GREASE INTERCEPTOR TO PROVIDE MEANS FOR VISUAL INSPECTION FROM ABOVE FOR BOTH THE INFLUENT AND EFFLUENT SIDES. MSD SAMPLING MANHOLE TO BE LOCATED ON A PRIVATE LATERAL IN AN ACCESSIBLE LOCATION FOR MSD SAMPLING. SAMPLING MANHOLE SHALL BE LOCATED DOWNSTREAM OF GREASE INTERCEPTOR AND ALL OTHER COMMERCIAL SANITARY LATERALS TO FACILITATE MSD SAMPLING. GREASE INTERCEPTORS AND SAMPLING MANHOLES SHALL BE SHOWN ON THE PLANS AND NOT BE LOCATED IN DRIVE-THRU LANES OR WITHIN PARKING SPACES.
6. LIMITS OF DISTURBANCE: THE CONTRACTOR SHALL STAY WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHEREVER POSSIBLE.
7. PIPE JOINTS WITH ADAPTERS AND COUPLINGS NOTE: PIPE JOINTS WITH ADAPTERS AND COUPLINGS SHALL BE SUPPLIED AND INSTALLED WITH 316 STAINLESS STEEL NUT AND BOLT CLAMPS (T-BOLT) CONFIGURATION; AND WITH STAINLESS STEEL SHEAR BANDS, BEING A MINIMUM OF TWELVE (12) MILS (MSD STD. CONST. SPECS. PT. 2, SUBSECTION H-11). WORM DRIVE HOSE CLAMPS AND CONCRETE BACKFILLING (CAUSTICITY) WILL NO LONGER BE ALLOWED AT THOSE JOINTS. GRANULAR BACKFILL SHOULD BE USED. IF FLOWABLE FILL IS REQUIRED, THE CONTRACTOR SHALL WRAP AND TAPE THE ADAPTERS AND COUPLINGS WITH A SIX (6) MIL POLYETHYLENE SHEET.
8. REMOVE REPLACE OR REHAB NOTE: THE REMOVAL AND REPLACEMENT, OR REHABILITATION OF THE EXISTING STRUCTURE WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE, THEN THE TOP SHALL BE ADJUSTED TO GRADE, IF NEEDED.
9. SANITARY AND STORM SEWERS IN SAME TRENCH: IF STORM AND SANITARY SEWERS ARE PARALLEL AND IN THE SAME TRENCH, THE UPPER PIPE SHALL BE PLACED ON A SHELF AND THE LOWER PIPE SHALL BE BEDDED IN COMPACTED GRANULAR FILL TO THE FLOWLINE OF THE UPPER PIPE.
10. SANITARY LATERALS: LATERALS TO BE 6-INCH PVC AND CONSTRUCTED AT 2.0% MINIMUM SLOPE.
11. SHOP DRAWINGS: THE PROJECT ENGINEER SHALL PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN MISSOURI FOR APPROVAL TO MSD PRIOR TO CONSTRUCTION OF THESE STRUCTURES. STRUCTURES SHALL BE DESIGNED TO SUSTAIN HS-20 LOADS. PLEASE CONTACT THE DISTRICT'S CONSTRUCTION MANAGEMENT DIVISION AT (314) 335-2072 FOR QUESTIONS.
12. SHOP DRAWINGS FOR BMPS: MSD SHOP DRAWING SUBMITTAL REQUIRED FOR BMP AND ITS COMPONENTS PRIOR TO CONSTRUCTION. MSD CONTACT: PLEASE CONTACT THE DISTRICT'S CONSTRUCTION MANAGEMENT DIVISION AT (314) 335-2072 FOR QUESTIONS.
13. SPLITTER MANHOLE: CONTRACTOR MUST VERIFY THE DIMENSIONS BETWEEN THE DIVERSION PIPE AND THE OVERFLOW PIPE PRIOR TO BACKFILL OF THE STRUCTURE AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCY WITH THE DIMENSIONS ON THE APPROVED PLANS. STRUCTURES BUILT INCORRECTLY WILL REQUIRE REMOVAL AND REPLACEMENT.
14. STANDARD CONSTRUCTION: ALL STORM AND SANITARY SEWER STRUCTURES AND APPURTENANCES TO BE DEDICATED TO MSD, OR TO BE PRIVATE UNDER MSD INSPECTION. SHALL CONFORM TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT, STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2023. THAT WILL INCLUDE STANDARD DETAILS SHOWN THEREIN, AND SHALL INCLUDE ALL SUBSEQUENT CHANGES MADE THERETO.
15. STORMWATER MANAGEMENT FUTURE DISTURBANCE NOTE:
PROJECT DISTURBANCE = 12.8 ACRES
PROJECT RUNOFF DIFFERENTIAL = 6.6 CFS (15YR 20MIN)
9.0 CFS (100YR 20MIN)

ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORMWATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN.)

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



DATE: 05/03/2024
EXPIRES: 12/31/2025



ONE SOUTH MEMORIAL DRIVE
SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



6 SOUTH OLD ORCHARD AVE.
ST. LOUIS, MO 63119
T: 314.918.6383
F: 314.918.1766
www.introba.com

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MISSOURI ARMY NATIONAL GUARD

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10625 LEWIS & CLARK
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63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: SW3
CHECKED BY: MY5
DESIGNED BY: SW3

SHEET TITLE:
General Notes

SHEET NUMBER:

C002

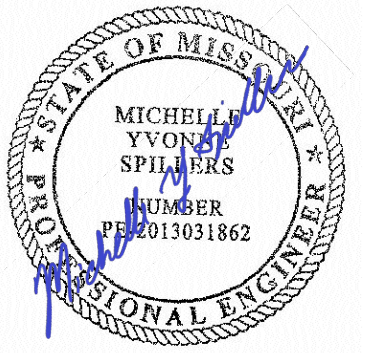
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05/03/2024

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4

MSD PERVIOUS PAVEMENT NOTES:

- ALL PERVIOUS CONCRETE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF ACI 522.1-08, THE NATIONAL READY MIXED CONCRETE ASSOCIATION JOINT PUBLICATION EB302.02, AND MSD'S STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2009.
- THE CONTRACTOR SHALL VERIFY THAT THE CONCRETE PRODUCER THAT WILL SUPPLY THE PERVIOUS CONCRETE FOR THIS PROJECT HAS BEEN PREQUALIFIED BY MSD AND POSSESSES A PERVIOUS CONCRETE CERTIFICATION (NRMCA OR APPROVED EQUAL). THE NAME OF THE PRODUCER AND THEIR FACILITY LOCATION SHALL BE PROVIDED TO THE MSD DIVISION INSPECTOR PRIOR TO CONSTRUCTION.
- PRIOR TO OBTAINING A CONSTRUCTION PERMIT FROM MSD TO CONSTRUCT PERVIOUS CONCRETE PAVEMENT FOR A GIVEN PROJECT, THE ENGINEER PROVIDING AS-BUILT CERTIFICATION SHALL:
 - VERIFY THE CONTRACTOR'S PAST HISTORY TO DEMONSTRATE THEIR APPLICABLE EXPERIENCE AND TRAINING IN INSTALLING PERVIOUS CONCRETE PAVEMENT. IF THE CONTRACTOR HAS INSUFFICIENT EXPERIENCE (LESS THAN THREE SUCCESSFUL JOBS), THE CONTRACTOR SHALL RETAIN AN EXPERIENCED CONSULTANT (SUCH AS AN ENGINEER RATED AS AN ACI CERTIFIED CRAFTSMAN) TO MONITOR PRODUCTION, HANDLING, AND PLACEMENT OPERATIONS
 - VERIFY HOW THE CONTRACTOR WILL MEET AT LEAST ONE OF THE FOLLOWING:
 - AT LEAST ONE NATIONAL READY MIX CONCRETE ASSOCIATION (NRMCA) CERTIFIED PERVIOUS CONCRETE CRAFTSMAN WILL BE ON SITE OVERSEEING EACH PLACEMENT CREW DURING ALL CONCRETE PLACEMENT, OR
 - AT LEAST THREE NRMCA CERTIFIED PERVIOUS CONCRETE INSTALLERS WILL BE ON SITE INSTALLING THE CONCRETE, OR
 - AT LEAST 2/3 OF THE PLACING CREW WILL BE NRMCA CERTIFIED PERVIOUS CONCRETE TECHNICIANS.
- INSPECTION AND TESTING SERVICES SHALL BE PROVIDED BY A TESTING LABORATORY UNDER THE DIRECTION OF A FULL-TIME EMPLOYEE REGISTERED AS A PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI. THEY SHALL HAVE A MINIMUM OF FIVE YEARS OF PROFESSIONAL ENGINEERING EXPERIENCE IN INSPECTION AND TESTING OF CONCRETE CONSTRUCTION, AND THE TECHNICIAN SHALL AT A MINIMUM BE ACI FIELD TESTING TECHNICIAN AS WELL AS NRMCA PERVIOUS CONCRETE CERTIFIED OR EQUAL.
- THE INSPECTION AND TESTING SERVICES PROVIDER, THE ENGINEER PROVIDING AS-BUILT CERTIFICATION, AND THE CONTRACTOR SHALL ESTABLISH A QUALITY CONTROL AND TESTING PROGRAM TO ENSURE THAT THE PERVIOUS CONCRETE PAVEMENT IS INSTALLED IN ACCORDANCE WITH THE MSD APPROVED PLANS AND PROJECT SPECIFICATIONS. ACI 522.1-08 SECTION 1.6 PROVIDES A RECOMMENDED QUALITY CONTROL AND TESTING PROTOCOL.
- TEST PANELS MAY BE CONSTRUCTED ON-SITE IN AN AREA FOR DEMOLITION AFTER TEST APPROVAL, OR IN AN AREA THAT MAY BE LEFT IN PLACE AND INCLUDED IN THE COMPLETED WORK.
- NO PRODUCT OR MATERIAL SUBSTITUTIONS ARE PERMITTED UNLESS PREVIOUSLY APPROVED BY THE MSD PLAN REVIEW ENGINEER OR BY THE MSD FIELD INSPECTOR ASSIGNED TO THE PROJECT. ALL SUBSTITUTIONS SHALL BE PRESENTED TO MSD THROUGH THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE PERVIOUS CONCRETE PAVEMENT SYSTEM.
- THE SUBGRADE SHALL BE CONSTRUCTED TO ENSURE THAT THE REQUIRED PAVEMENT THICKNESS IS OBTAINED IN ALL LOCATIONS. THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION TRAFFIC FROM THE SUBGRADE AREA TO THE MAXIMUM EXTENT POSSIBLE. REGRADE THE SUBGRADE AS REQUIRED PRIOR TO SUBBASE AND PRODUCT INSTALLATION.
- MEASURES TO PROVIDE FOR RUNOFF DIVERSION ARE REQUIRED TO PROTECT THE PERVIOUS CONCRETE PAVEMENT AREAS FROM ADJACENT SITE RUNOFF DURING AND AFTER CONSTRUCTION UNTIL THE TRIBUTARY SITE IS DEEMED STABLE BY THE MSD INSPECTOR.
- STONE SHOULD BE CLEAN AND MEETING ASTM C 33 STANDARDS.
- MSD TYPE 4 FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) SHOULD BE INSTALLED ON THE SIDES OF THE AGGREGATE STORAGE BED TO PREVENT SEDIMENT ENTRY. WHEN SHOWN ON THE PLANS, THE FILTER FABRIC MAY BE INSTALLED BETWEEN THE SUBBASE AND THE STORAGE BED. THE FILTER FABRIC SHALL NOT BE INSTALLED BETWEEN LAYERS OF AGGREGATE.
- SUBBASE MUST BE MOIST (WITHOUT FREE STANDING WATER) PRIOR TO PLACEMENT TO PREVENT WATER FROM BEING REMOVED FROM THE LOWER PORTION OF THE PAVEMENT TOO SOON.
- PERVIOUS CONCRETE MIX NOTES
 - PERVIOUS CONCRETE MIXTURE SHOULD BE DISCHARGED COMPLETELY WITHIN ONE HOUR AFTER INITIAL MIXING. THE USE OF RETARDING CHEMICAL ADMIXTURES OR HYDRATION STABILIZING ADMIXTURES MAY EXTEND THE DISCHARGE TIME TO ONE AND A HALF HOURS OR MORE.
 - EACH LOAD OF CONCRETE SHALL BE VISUALLY INSPECTED FOR CONSISTENCY AND AGGREGATE COATING.
- PRIOR TO PLACEMENT, THE SUBBASE PREPARATION AND FORMS SHOULD BE DOUBLE-CHECKED. ANY IRREGULARITIES, RUTTING, OR MISALIGNMENT SHOULD BE CORRECTED.
- PLACEMENT SHOULD BE CONTINUOUS AND SPREADING & STRIKEOFF SHOULD BE RAPID. CONSOLIDATION SHOULD BE COMPLETED WITHIN 15 MINUTES OF PLACEMENT.
- JOINTS SHALL BE PLACED AS SPECIFIED, AND MAY BE PLACED AT THE SAME LOCATION ALONG ADJOINING PAVEMENTS. SAW CUTTING IS POSSIBLE AS LONG AS SLURRY IS BLOWN AND/OR POWER WASHED IMMEDIATELY AFTER CUTTING. THE CONTRACTOR SHALL SUBMIT A JOINT DETAIL PLAN TO THE ENGINEER PROVIDING AS-BUILT CERTIFICATION PRIOR TO CONSTRUCTION.
- CURING SHOULD BE STARTED AS SOON AS PRACTICAL (WITHIN 20 MINUTES IS OPTIMAL) AFTER PLACING, COMPACTING, AND JOINTING.
- CURING IS ACCOMPLISHED BY FOG MISTING WITH WATER AND/OR AN APPROPRIATE CURE, FOLLOWED BY 4-6 MIL MINIMUM POLY SHEETING ANCHORED TO PREVENT SHEETING FROM BLOWING OFF OR ALLOWING AIR TO BILLOW UNDER SHEETING. THE SHEETING SHOULD REMAIN FOR AT LEAST SEVEN DAYS.
- PLASTIC SHEETING SHALL BE SECURED WITH LUMBER, REBAR, STAKING OR OTHER METHODS. AVOID THE USE OF SAND OR DIRT AS THIS WILL CLOG THE PAVEMENT.
- ONCE INSTALLED, THE AREA SHALL BE QUARANTINED FROM ALL TRAFFIC UNTIL SITE IS STABLE TO PREVENT MUD FROM BEING DEPOSITED.
- DO NOT OPEN THE PAVEMENT TO TRAFFIC UNTIL IT HAS CURED FOR AT LEAST SEVEN DAYS AND IS ACCEPTED BY ENGINEER PROVIDING AS-BUILT CERTIFICATION.
- AVOID USING AREAS WITHIN THE PERVIOUS CONCRETE PAVEMENT AS CONSTRUCTION STAGING ZONES OR STOCKPILE LOCATIONS. THIS FOSTERS THE OPPORTUNITY FOR FINES FROM SOILS, MULCH, EQUIPMENT, ETC. TO MIGRATE INTO THE NEW PAVEMENT AND CLOG IT.
- DO NOT CLEAN THE PERVIOUS CONCRETE PAVEMENT SURFACE WITH HIGH PRESSURE HOSES OR ABRASIVES. WHEN CLEANING IS NECESSARY, COMBINATION CLEANING MACHINES THAT COMBINE A WET SPRAY AND VACUUM PROCESS HAS BEEN FOUND TO BE EFFECTIVE.
- A PERMANENT SIGN SHALL BE POSTED WARNING THAT CARE SHOULD BE TAKEN DURING SNOW PLOWING; AND PROHIBIT THE FOLLOWING: RESURFACING, THE USE OF SAND ABRASIVES FOR WINTER TIRE TRACTION, AND THE USE OF POWER WASHERS.
- AT COMPLETION OF THE PROJECT, PRIOR TO FINAL DEDICATION, AN AS-BUILT CERTIFICATION, SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER SHALL BE PROVIDED.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



DATE: 05/03/2024
EXPIRES: 12/31/2025



ONE SOUTH MEMORIAL DRIVE
SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



6 SOUTH OLD ORCHARD AVE.
ST. LOUIS, MO 63119
T: 314.918.6383
F: 314.918.1766
www.introba.com

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PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

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DATE: _____

ISSUE DATE: 05/03/2024

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DRAWN BY: SW3
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DESIGNED BY: SW3

SHEET TITLE:

General Notes

SHEET NUMBER:

C003

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05/03/2024



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SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



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ST. LOUIS, MO 63119
T: 314.918.8383
F: 314.918.1766
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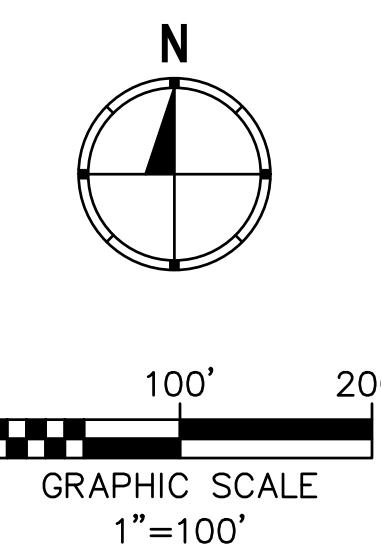
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Existing Conditions
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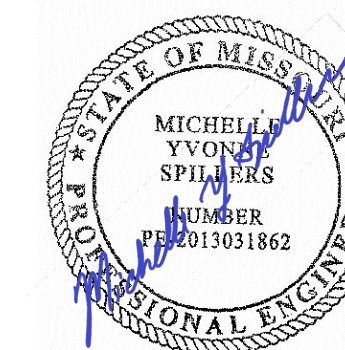
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05/03/2024



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SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
www.oatesassociates.com



6 SOUTH OLD ORCHARD AVE.
ST. LOUIS, MO 63119
T: 314.918.9383
F: 314.918.1766
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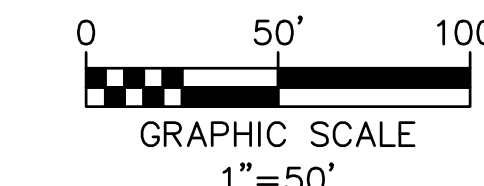
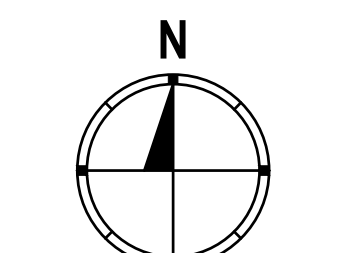
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SHEET TITLE:
Existing Conditions
& Removal Plan

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C102

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05/03/2024



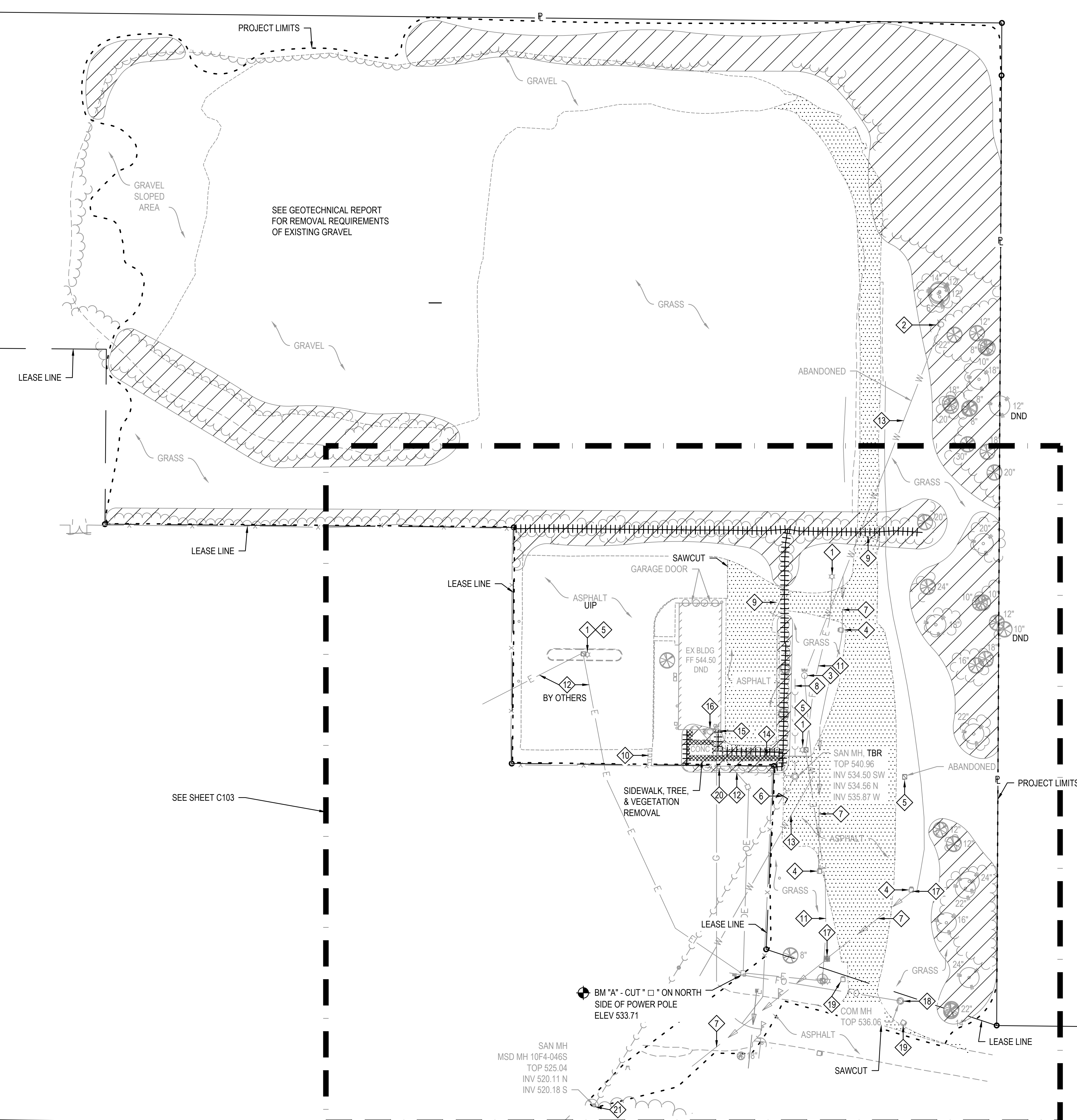
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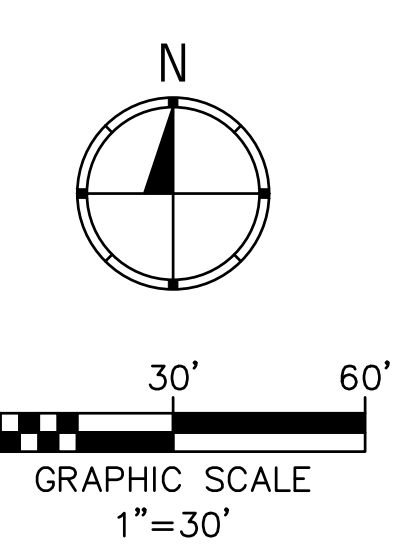
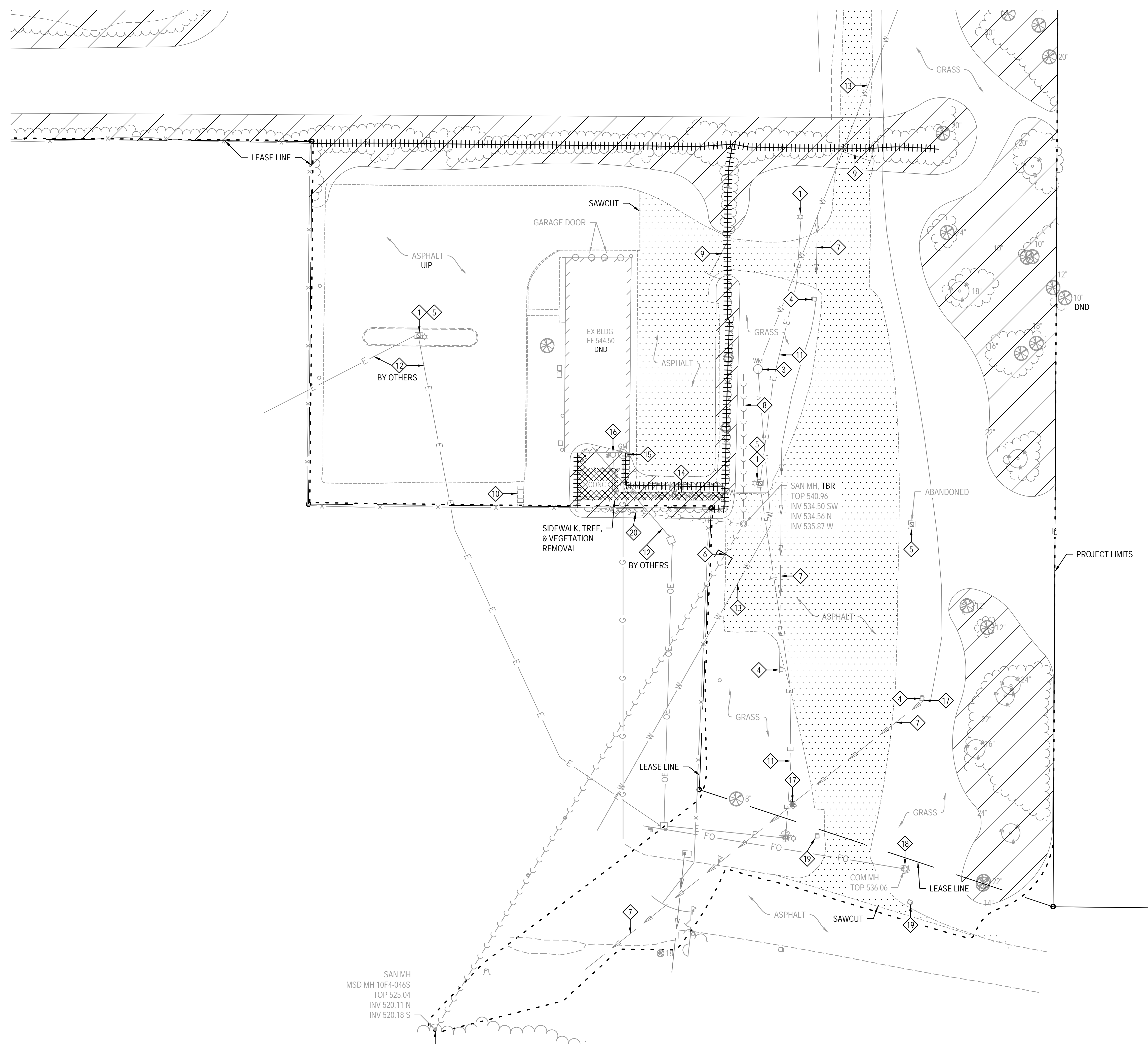
- 1 EXISTING LIGHT POST, TBR
- 2 EXISTING HYDRANT, TBR
- 3 EXISTING WATER METER, TBR
- 4 EXISTING SIGN, TBR
- 5 EXISTING HANDHOLE, TBR
- 6 EXISTING SANITARY SEWER LINE, TO BE CAPPED
- 7 EXISTING CULVERT, TBR
- 8 EXISTING SANITARY SEWER, TBR
- 9 EXISTING GATE & HARDWARE, TBR
- 10 EXISTING CONCRETE STEPS, TBR
- 11 EXISTING ELECTRIC, TBR
- 12 EXISTING ELECTRIC, TBR BY OTHERS
- 13 ABANDONED WATER SERVICE, TBR
- 14 EXISTING WATER SERVICE, TO BE ABANDONED
- 15 EXISTING GAS METER, TBR BY OTHERS
- 16 EXISTING WATER METER, TBR BY OTHERS
- 17 EXISTING INLET, TBR
- 18 EXISTING COMMUNICATIONS MANHOLE, DND
- 19 EXISTING SIGN, TBRL
- 20 EXISTING SANITARY LATERAL, TO BE ABANDONED
- 21 EXISTING SANITARY MANHOLE TBR&R AT MSD INSPECTOR'S DISCRETION

REMOVAL LEGEND

- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- TREE & VEGETATION REMOVAL
- FENCE REMOVAL

ALL EXISTING UTILITIES ARE DRAWN FROM RECORD SOURCES AND FIELD SURVEYS AND SHOULD BE CONSIDERED APPROXIMATE ONLY.





KEYED NOTES

- 1 EXISTING LIGHT POST, TBR
- 2 EXISTING HYDRANT, TBR
- 3 EXISTING WATER METER, TBR
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SUITE 1500 ST. LOUIS, MO 63102
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DESIGNED BY: SW3

SHEET TITLE:
Existing Conditions
& Removal Plan
30 Scale

SHEET NUMBER:
C103
13 OF 272 SHEETS
05/03/2024



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SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



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ST. LOUIS, MO 63119
T: 314.918.8383
F: 314.918.1766
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10625 LEWIS & CLARK
BLVD, ST. LOUIS, MO
63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE: _____
REVISION:
DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 05/03/2024

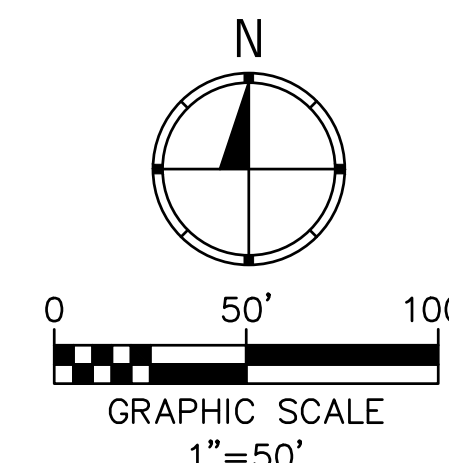
CAD DWG FILE:
DRAWN BY: SW3
CHECKED BY: TLC
DESIGNED BY: MYS

SHEET TITLE:
Site Plan

SHEET NUMBER:

C201

14 OF 272 SHEETS
05/03/2024



KEYED NOTES

- 1 NEW ACCESSIBLE PARKING STALL, SEE DETAIL 3 ON SHEET C202 AND 5 ON SHEET C203
- 2 NEW ACCESSIBLE PARKING SIGN, SEE DETAIL 1 ON SHEET C203
- 3 NEW 4" PAINT PAVEMENT MARKING, WHITE
- 4 NEW 4" PAINT PAVEMENT MARKING, 45 DEGREE ON 2' CENTERS, YELLOW
- 5 NEW 24" PAINT PAVEMENT MARKING, WHITE, SEE DETAIL 9 ON SHEET C203
- 6 NEW CONCRETE BARRIER CURB, SEE DETAIL 7 ON SHEET C203
- 7 NEW COMBINATION CONCRETE CURB & SIDEWALK, SEE DETAIL 4 ON SHEET C203
- 8 NEW PLUS DUTY CONCRETE PAD, SEE DETAIL 4 ON SHEET C202
- 9 NEW DUMPSTER ENCLOSURE, SEE DETAIL 5 ON SHEET C202 AND ARCHITECTURAL PLANS
- 10 NEW PIPE BOLLARD, SEE DETAIL 2 ON SHEET C203 AND ARCHITECTURAL PLANS
- 11 NEW MISSOURI NATIONAL GUARD SIGN, SEE ARCHITECTURAL PLANS
- 12 NEW TRANSFORMER ENCLOSURE, SEE ARCHITECTURAL PLANS
- 13 NEW 7' HIGH CYCLONE FENCE WITH THREE STRAND BARBED WIRE, SEE DETAILS ON SHEETS C205, C206, C207, AND C208
- 14 NEW MSE RETAINING WALL, SEE DETAIL 7 ON SHEET C202
- 15 NEW MOUNTABLE CURB, SEE DETAIL 11 ON SHEET C203
- 16 NEW FLAG POLES & FOUNDATIONS, SEE ARCHITECTURAL PLANS
- 17 NEW PLUS DUTY CONCRETE PAVEMENT, SEE DETAIL 4 ON SHEET C202
- 18 NEW GENERATOR ENCLOSURE, SEE ARCHITECTURAL PLANS
- 19 NEW SEGMENTAL BLOCK RETAINING WALL WITH SAFETY RAIL, SEE DETAIL 8 ON SHEET C202
- 20 NEW GEOGRID PAVERS, SEE DETAIL 5 ON SHEET C204
- 21 BID ALTERNATE 3: NEW 2FT WIDE CONCRETE SURFACE AROUND FENCE, SEE DETAIL 6 ON SHEET C202
- 22

LEGEND

- BASE BID: NEW PERVIOUS CONCRETE PAVEMENT, SEE DETAIL 3 ON SHEET C204
- BASE BID: NEW CONCRETE PAVEMENT, SEE DETAIL 3 ON SHEET C202
- NEW PLUS DUTY CONCRETE PAVEMENT, SIDEWALK, OR RAMP, SEE DETAILS 1 & 4 ON SHEET C202
- BASE BID: NEW AGGREGATE SURFACE AROUND FENCE
- BID ALTERNATE 3: NEW CONCRETE SURFACE AROUND FENCE, SEE DETAIL 6 ON SHEET C202
- ADD ALTERNATE 1: NEW CONCRETE PAVEMENT, SEE DETAIL 3 ON SHEET C202
- DEPRESSED CURB, SEE DETAIL 10 ON SHEET C203

POV PARKING SPACES

POV PARKING SPACES PROVIDED	282
ADA SPACES PROVIDED	7
TOTAL PARKING SPACES PROVIDED	289

PARKING REQUIRED:
316 PERSONAL SPACES x 90% = 285 POV SPACES
7 ADA SPACES REQUIRED

LOCAL AGENCY REQUIREMENTS:
3.33 SPACES / 1000 GSF (BASED ON COMMUNITY CENTER TYPE)

65,882 GSF = 219 SPACES REQUIRED

ORGANIZATIONAL VEHICLE PARKING

AUTHORIZED VEHICLE INVENTORY:

WHEELED VEHICLES AND TRAILERED TOWED EQUIPMENT (50 SQ YD / VEHICLE)	217
TRACKED / ENGINEER VEHICLES (75 SQ YD / VEHICLE)	121
FUEL TRUCK (175 SQ YD / VEHICLE)	13

ACTUAL VEHICLE INVENTORY:

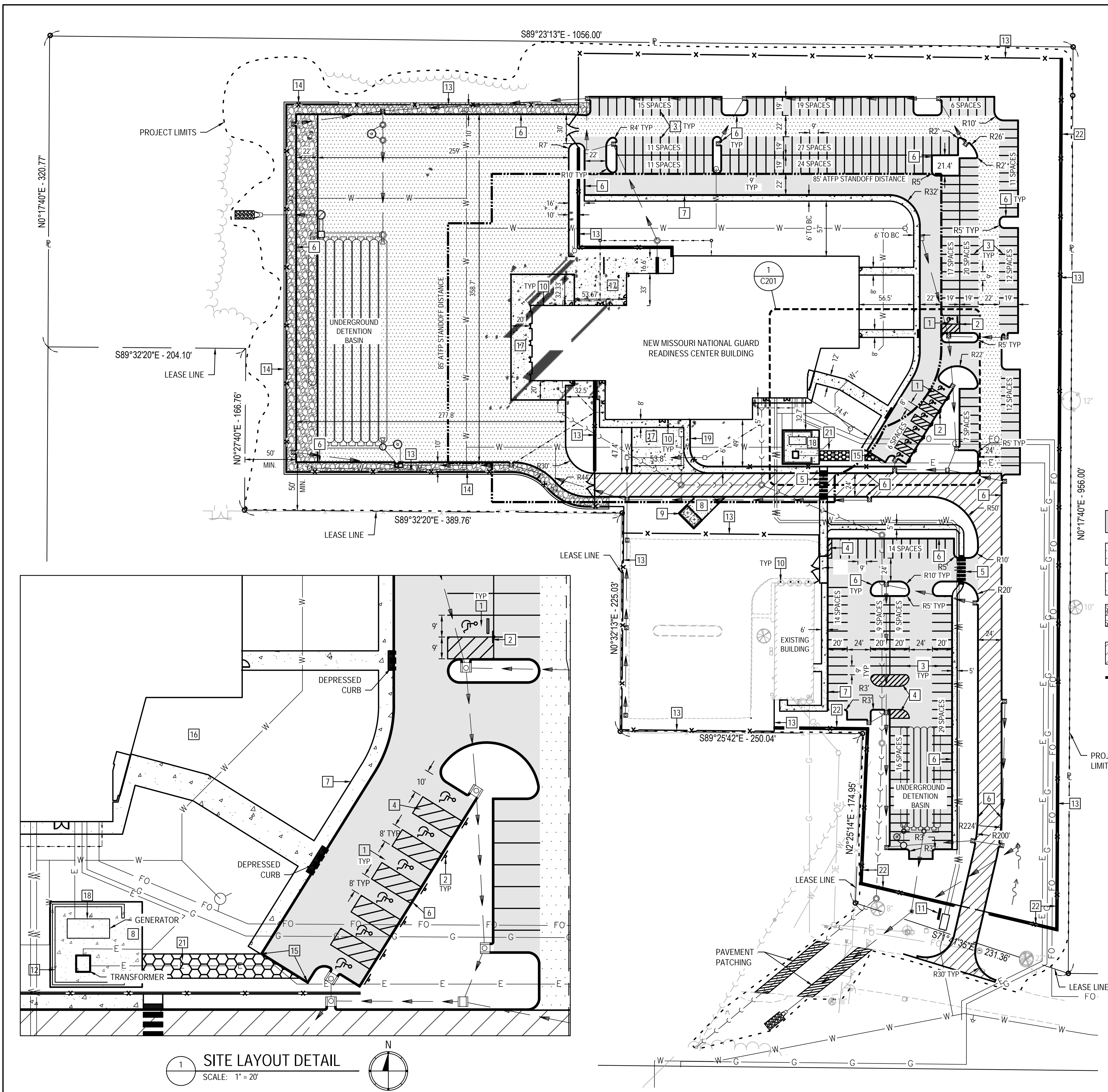
WHEELED VEHICLES AND TRAILERED TOWED EQUIPMENT (50 SQ YD / VEHICLE)	273
NEW OV PAVEMENT	10,189 SY

NOTES

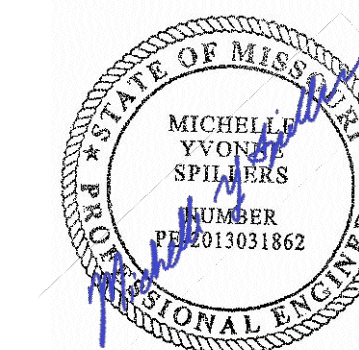
ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

ADD ALTERNATE 1 ITEMS ARE TO BE EXCLUDED FROM THE BASE BID AND INCLUDED IN ADD ALTERNATE 1. THE INTENTION OF ADD ALTERNATE 1 IS TO SEPARATE ITEMS FUNDED BY A DIFFERENT FUNDING SOURCE THAN THE BASE BID

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4



1 SITE LAYOUT DETAIL
SCALE: 1" = 20'



DATE: 05/03/2024
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DRAWN BY: AJN
CHECKED BY: MYS
DESIGNED BY: AJN

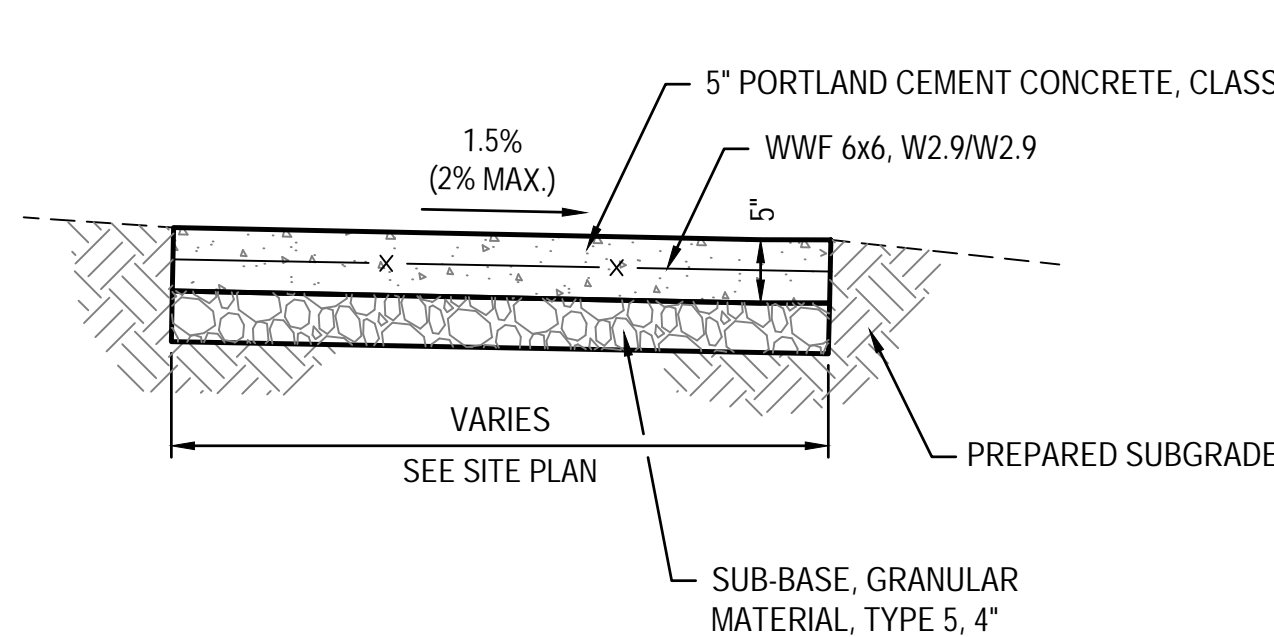
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Site Details

SHEET NUMBER:

C202

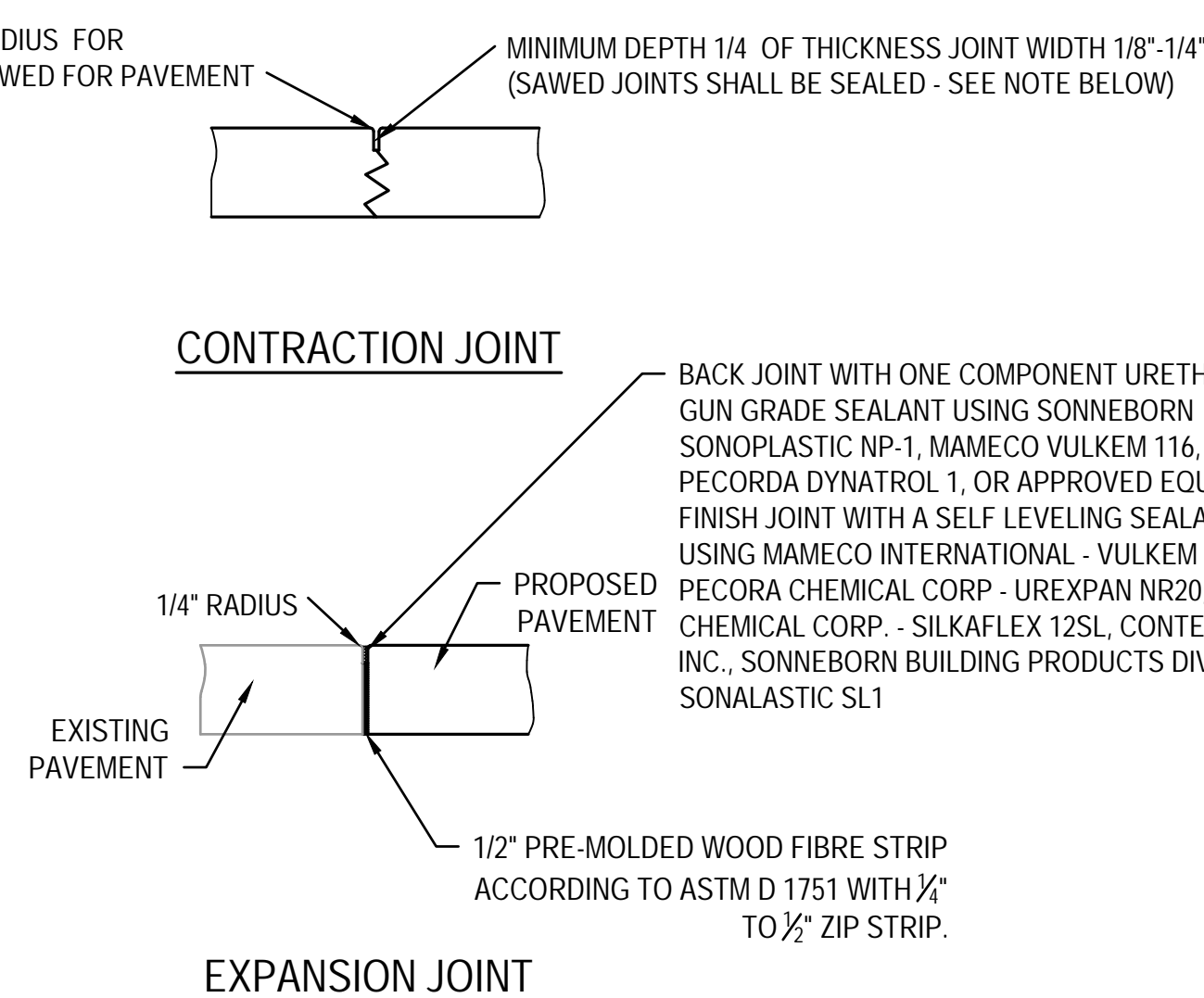
15 OF 272 SHEETS
05/03/2024

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4

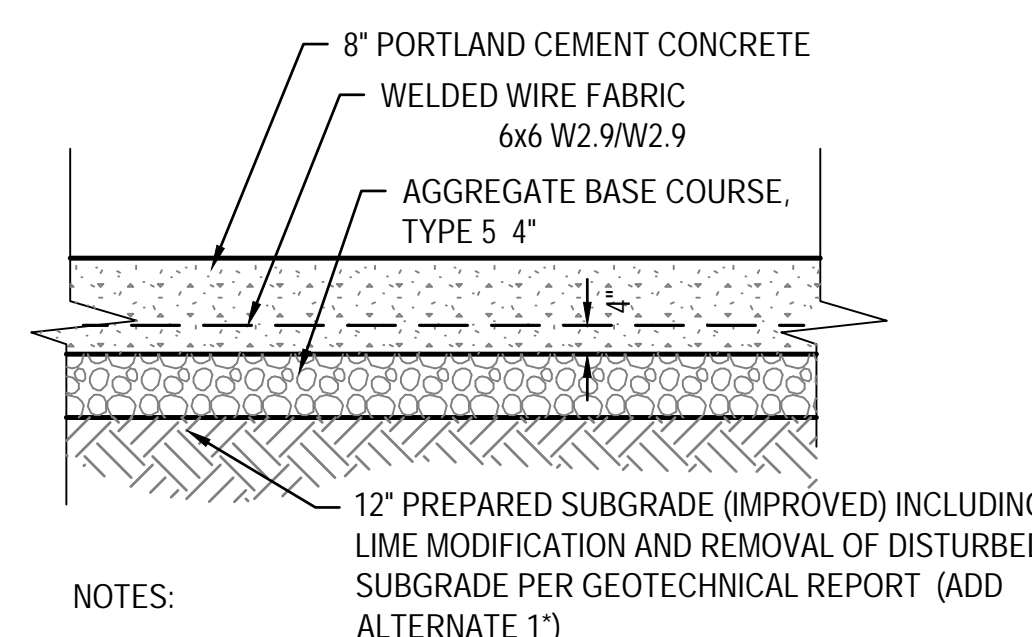


NOTES:
EXPANSION JOINTS ARE TO BE ON ±100' CENTERS AND AT POINTS OF CURVATURE.
EXPANSION JOINT REQUIRED BETWEEN THE SIDEWALK AND EXISTING PAVEMENT OR STRUCTURES.

1 CONCRETE SIDEWALK
SCALE: NO SCALE

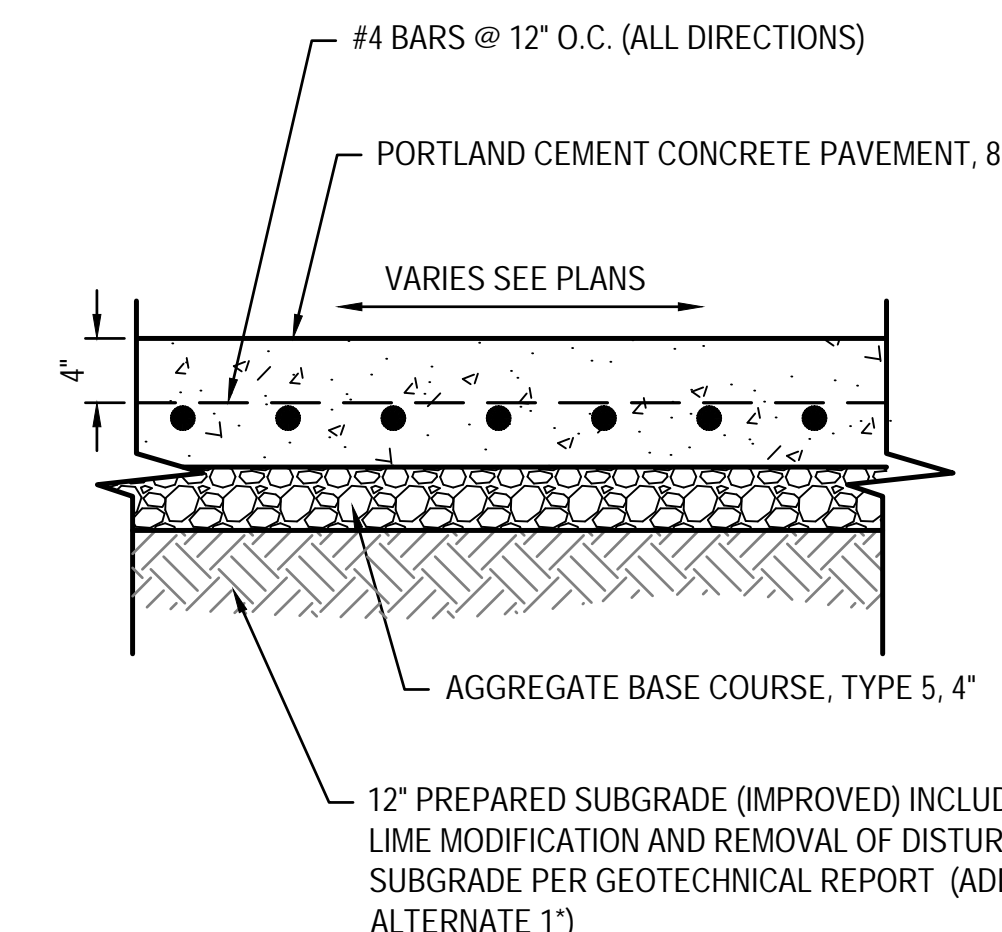


2 TYPICAL CONCRETE JOINT DETAILS
SCALE: NO SCALE



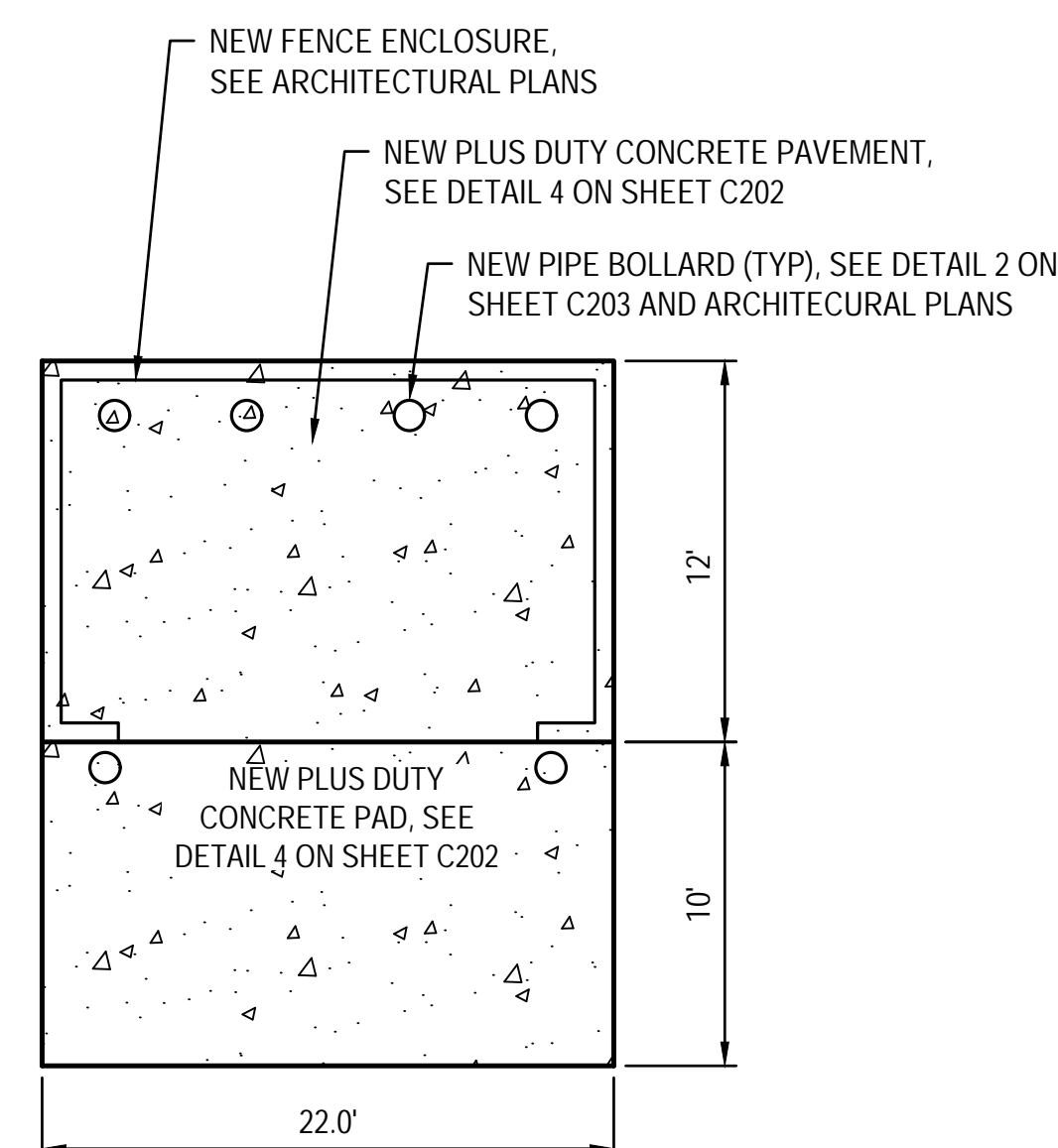
NOTES:
CONTRACTION JOINTS ARE TO BE INSTALLED IN A RECTANGULAR PATTERN, APPROXIMATELY SQUARE, 10' MAX. SPACING.
EXPANSION JOINT REQUIRED BETWEEN THE CONCRETE PAD AND ANY PROPOSED BUILDINGS. IT IS ALSO REQUIRED BETWEEN THE CONCRETE PAVEMENT AND OTHER PAVEMENT, STRUCTURES AND FOUNDATIONS.

3 CONCRETE PAVEMENT DETAIL
SCALE: NO SCALE



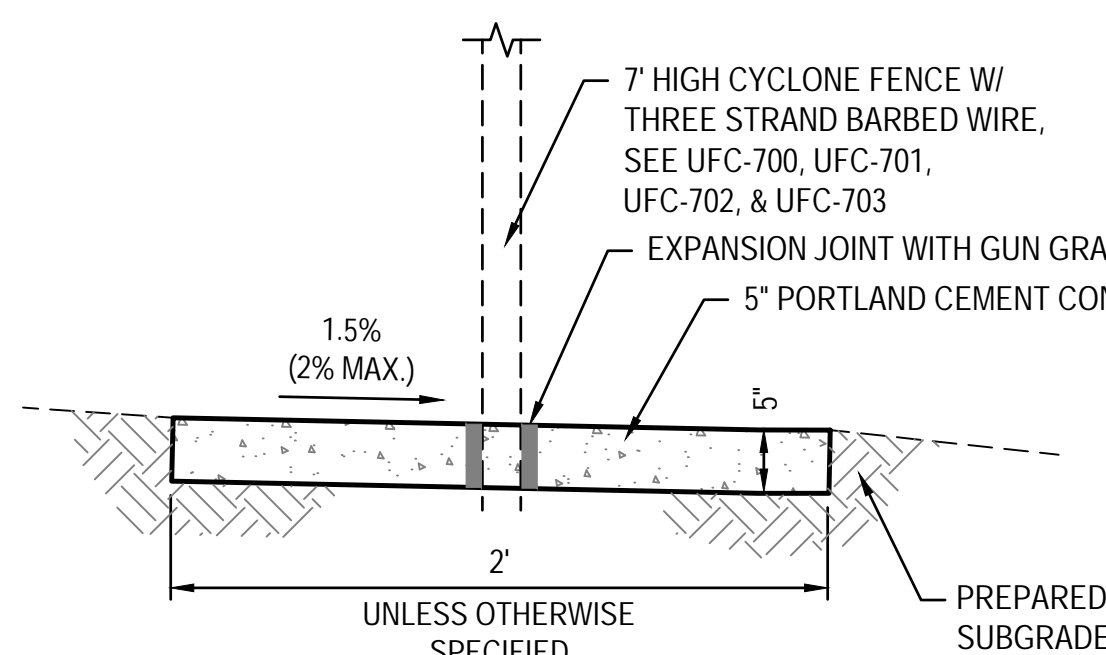
NOTES:
1. CONTRACTION JOINTS ARE TO BE ON ±10' CENTERS. SEE DETAIL 2 ON SHEET C202
2. EXPANSION JOINTS ARE TO BE ON ±100' CENTERS AND AT POINTS OF CURVATURE.
3. EXPANSION JOINT REQUIRED BETWEEN THE PAVEMENT AND EXISTING PAVEMENT OR STRUCTURES.
4. ALL EXPANSION AND CONTRACTION JOINTS SHALL BE SEALED WITH GUN GRADE LIMESTONE COLORED SEALANT.

4 PLUS DUTY CONCRETE PAVEMENT & PAD DETAIL
SCALE: NO SCALE



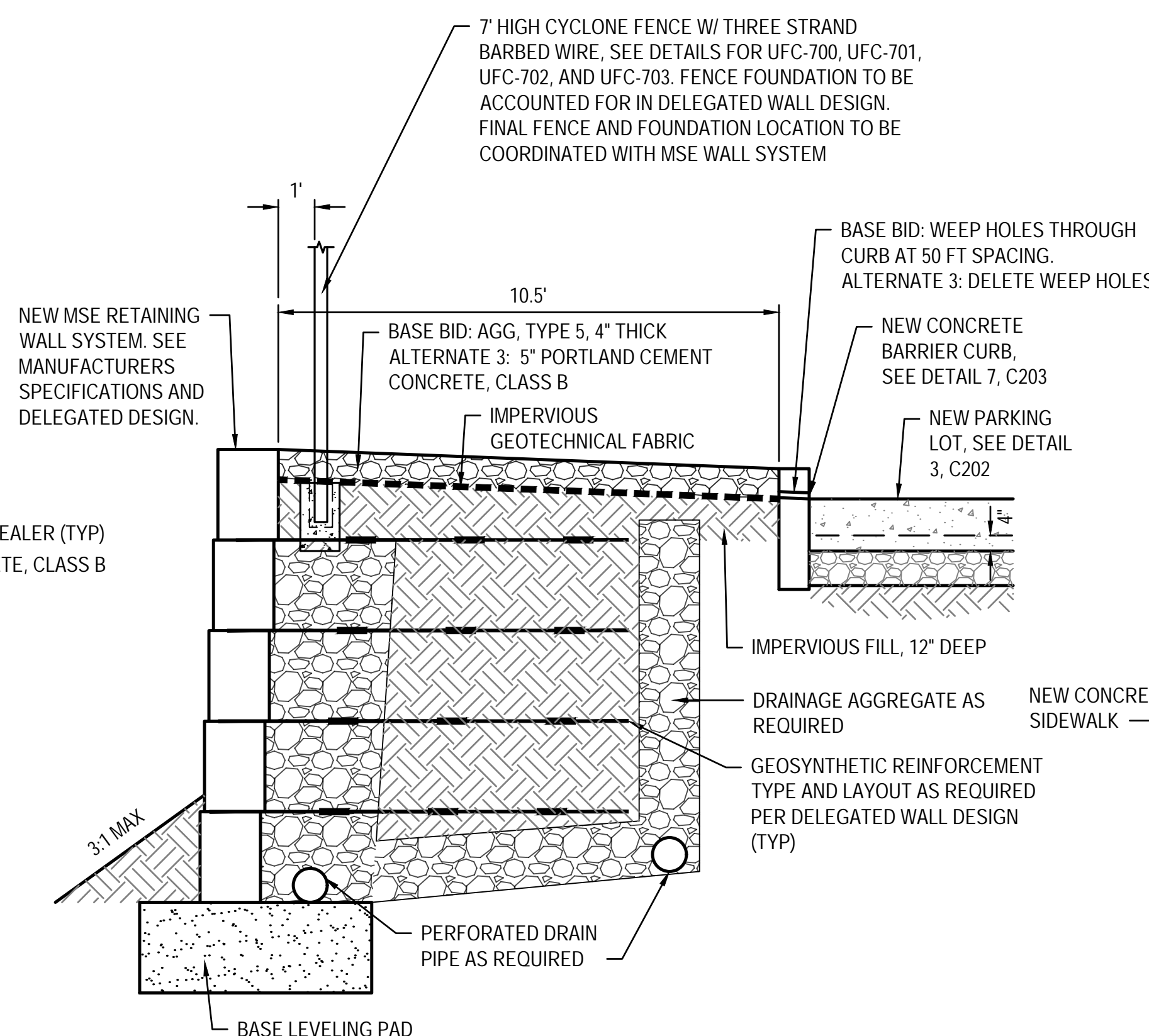
NOTE:
CONTRACTOR TO PROVIDE LOCKING MECHANISM FOR ENCLOSURE DOORS FOR OPEN POSITION DURING SERVICE. SEE ARCHITECTURAL PLANS.

5 DUMPSTER PAVEMENT W/LIFT PAD
SCALE: NO SCALE



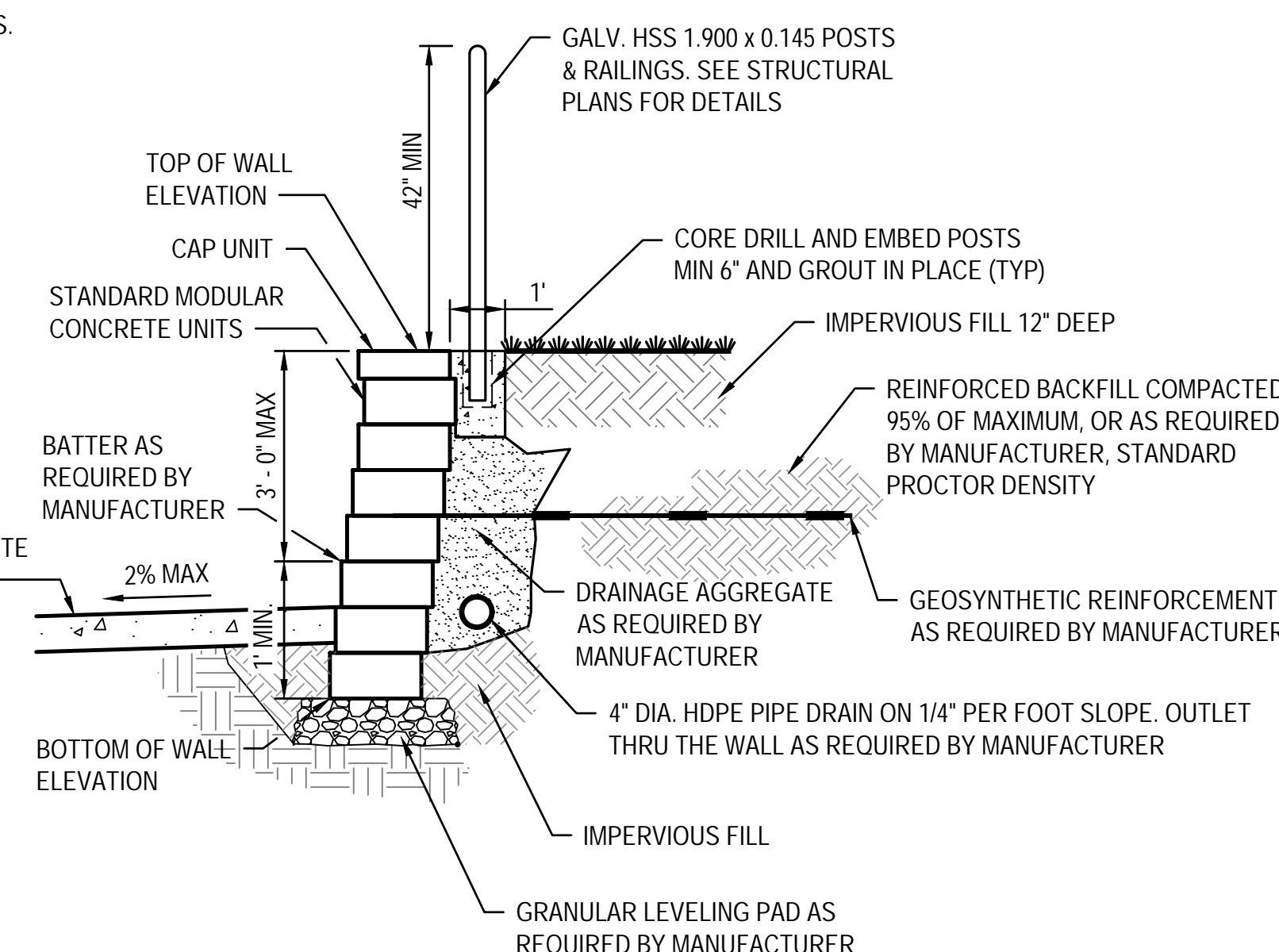
NOTES:
EXPANSION JOINTS ARE TO BE ON ±100' CENTERS AND AT POINTS OF CURVATURE.

6 CONCRETE SURFACE AT FENCE
SCALE: NO SCALE
ADD ALTERNATE 3



NOTES:
SEE GRADING PLAN FOR WALL ELEVATIONS.
CONSTRUCT WALL PER MANUFACTURERS SPECIFICATIONS AND DELEGATED DESIGN.
SEE GEOTECHNICAL REPORT FOR MSE WALL DESIGN PARAMETERS AND GLOBAL STABILITY ANALYSIS

7 MSE RETAINING WALL DETAIL
SCALE: NO SCALE



NOTES:
SEE GRADING PLAN FOR WALL ELEVATIONS.
CONSTRUCT WALL PER MANUFACTURERS SPECIFICATIONS AND DELEGATED DESIGN.

8 SEGMENTAL BLOCK WALL LAYOUT
SCALE: NO SCALE

NOTE:
ADD ALTERNATE 1 ITEMS ARE TO BE EXCLUDED FROM THE BASE BID AND INCLUDED IN ADD ALTERNATE 1. THE INTENTION OF ADD ALTERNATE 1 IS TO SEPARATE ITEMS FUNDED BY A DIFFERENT FUNDING SOURCE THAN THE BASE BID.



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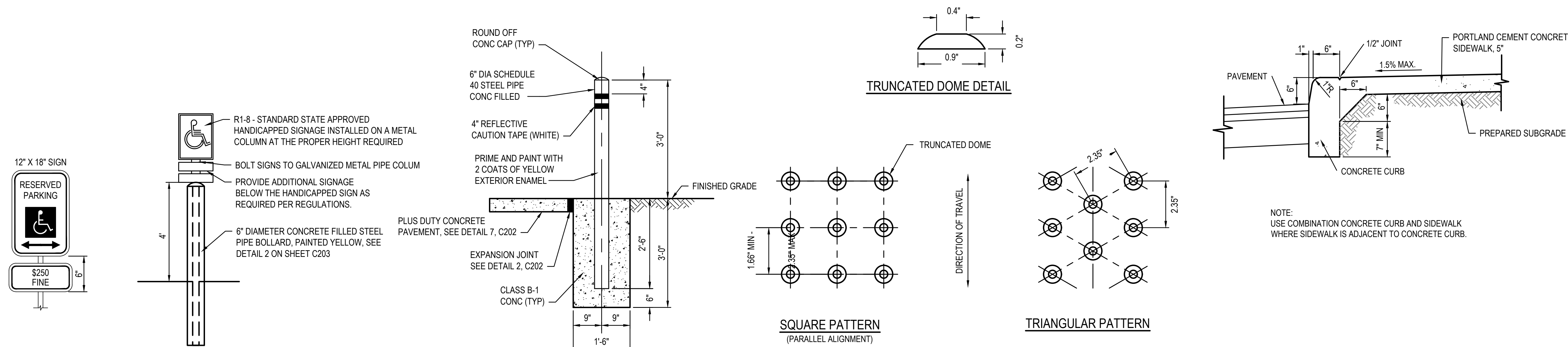
SHEET TITLE:
Site Details

SHEET NUMBER:

C203

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05/03/2024

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4

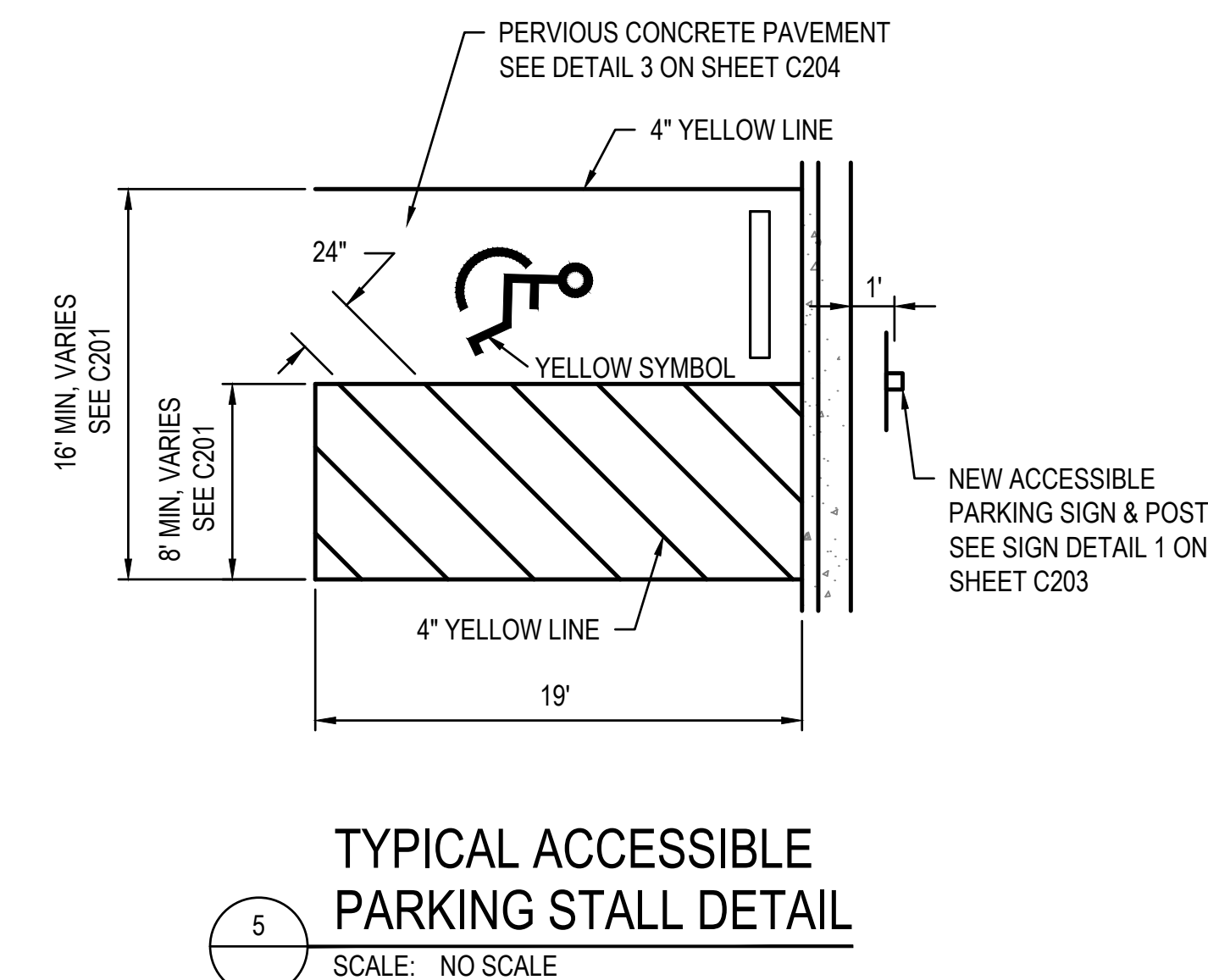


1 ACCESSIBLE SIGN & POST
SCALE: NO SCALE

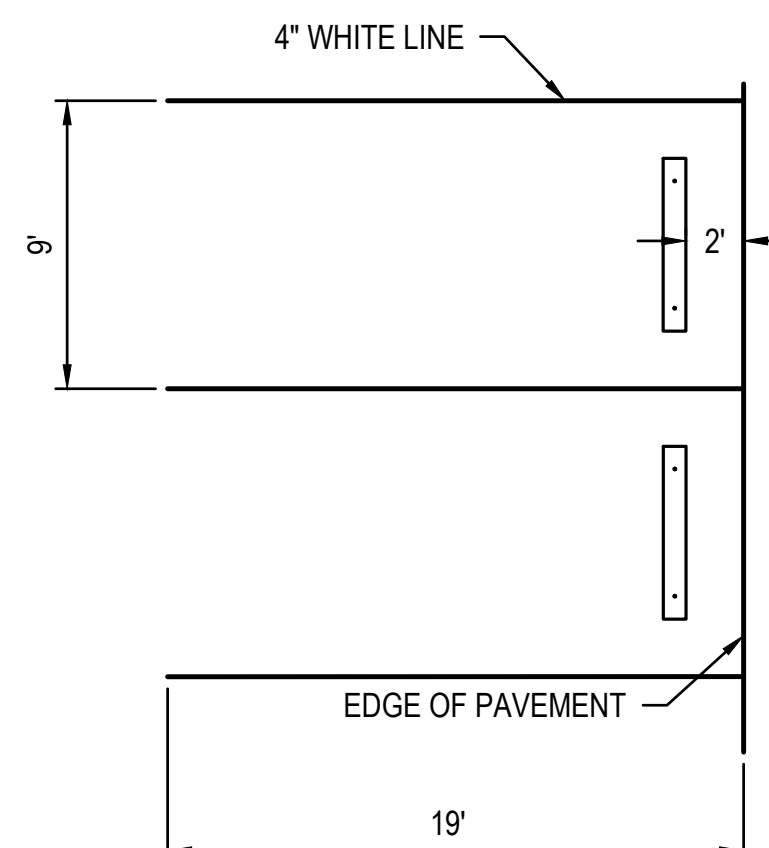
2 PIPE BOLLARD DETAIL
SCALE: NO SCALE

3 DETECTABLE WARNING DETAIL
SCALE: NO SCALE

4 COMBINATION CONCRETE
CURB AND SIDEWALK DETAIL
SCALE: NO SCALE

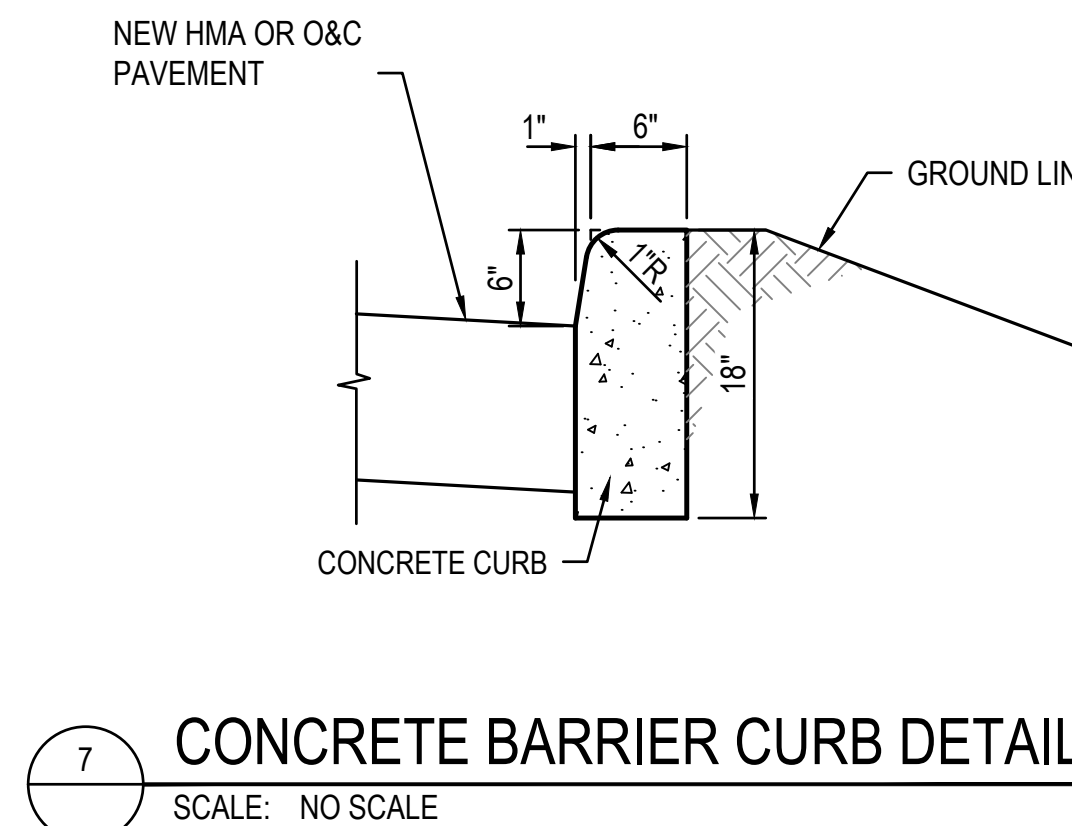


5 TYPICAL ACCESSIBLE
PARKING STALL DETAIL
SCALE: NO SCALE

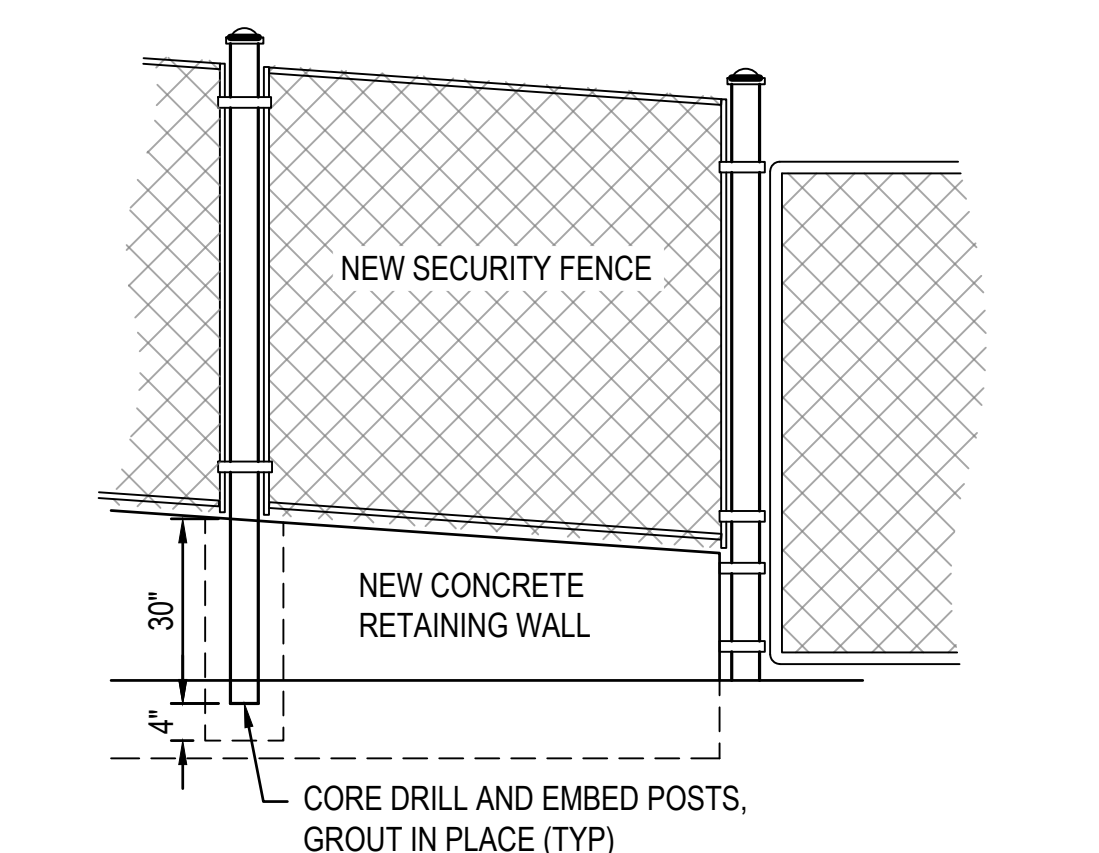


6 CONCRETE PARKING BLOCK DETAIL
SCALE: NO SCALE

- NOTE:
1. PARKING BLOCKS SHALL BE MADE OF CONCRETE
 2. PARKING BLOCKS TO BE ANCHORED WITH 5/8" x 24" IRON PINS (2 EACH) DRILLED INTO THE PAVEMENT & FIT SNUG AS TO NOT RACK WHEN SHOVED.
 3. REBAR SHALL BE EPOXY COATED AND TOP SEALED WITH CAULK.
 4. PAINT PARKING BLOCKS YELLOW.

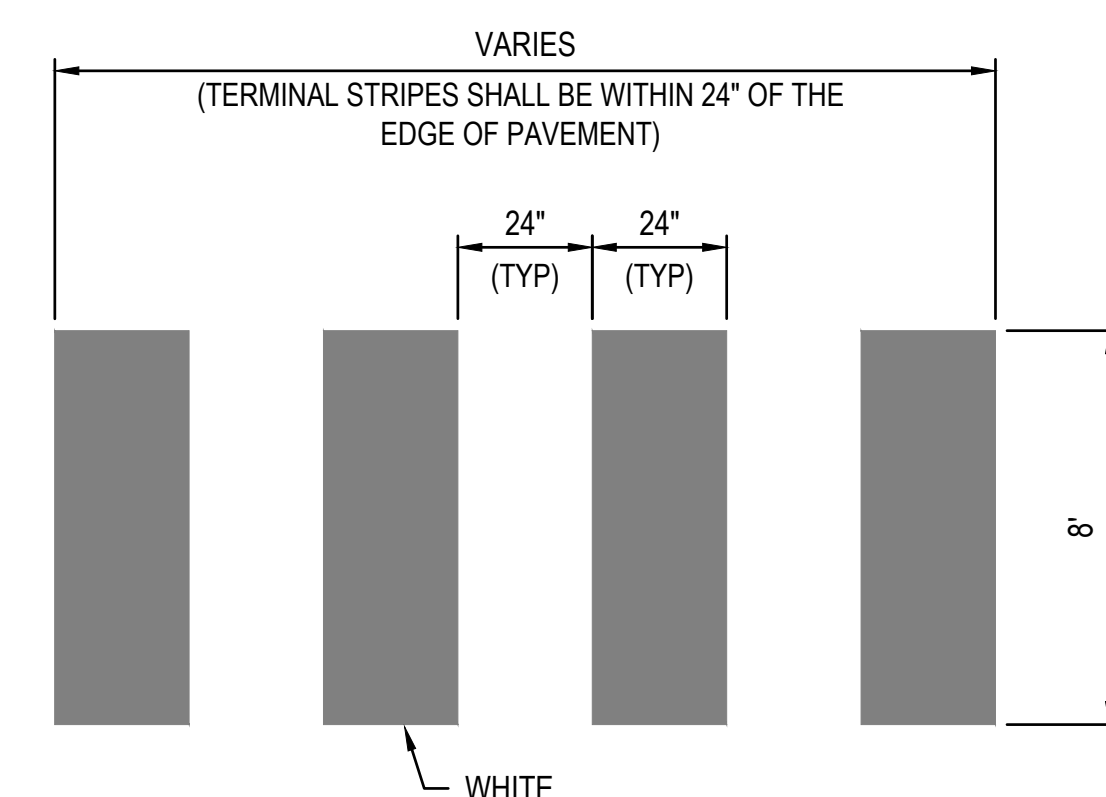


7 CONCRETE BARRIER CURB DETAIL
SCALE: NO SCALE

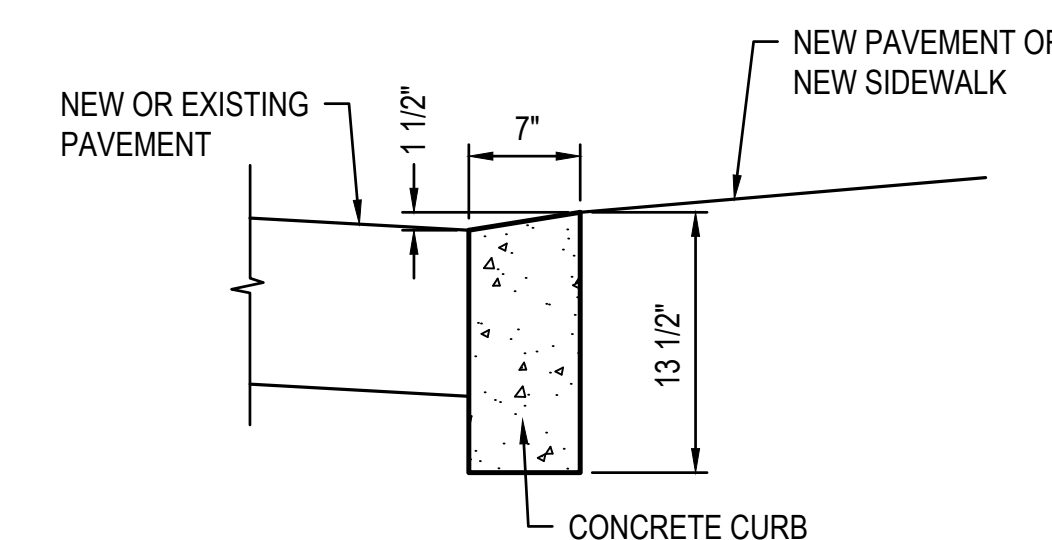


8 SECURITY FENCE @ RETAINING WALL
SCALE: NO SCALE

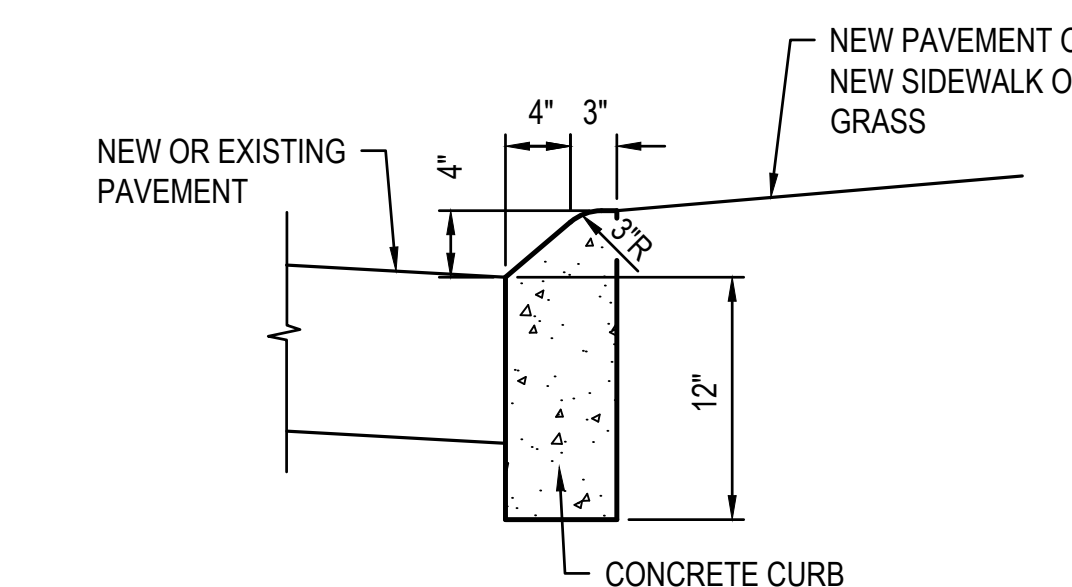
- NOTES:
1. FENCE TO BE IN ACCORDANCE WITH UFC 4-022-03 DETAIL UFC-700



9 CROSSWALK DETAIL
SCALE: NO SCALE



10 DEPRESSED CONCRETE
BARRIER CURB DETAIL
SCALE: NO SCALE



11 MOUNTABLE CONCRETE
BARRIER CURB DETAIL
SCALE: NO SCALE

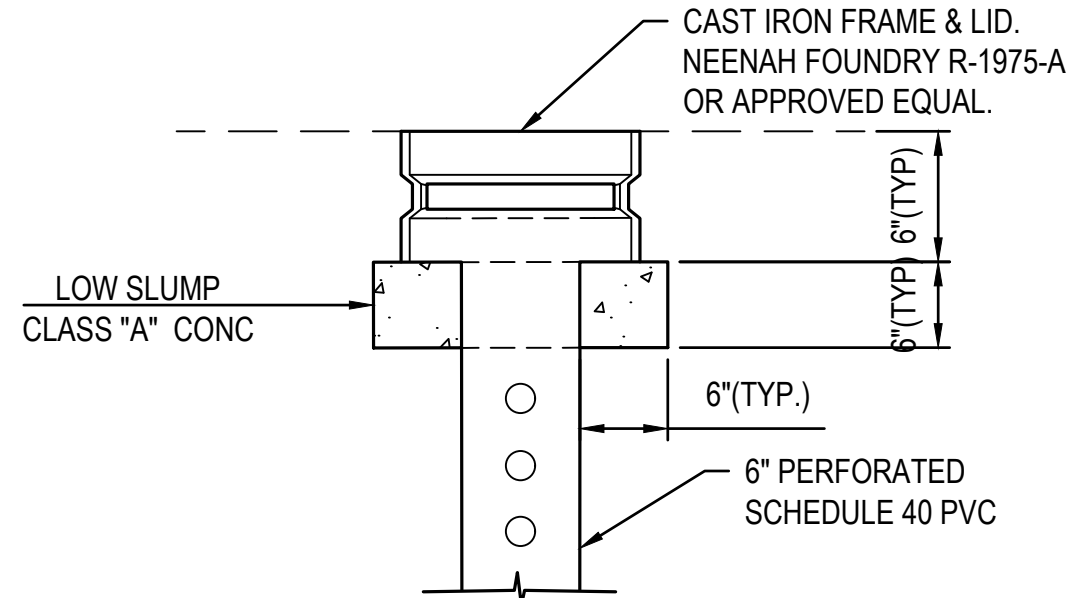
PERVIOUS CONCRETE PAVEMENT

POWER WASHING, RESURFACING, AND THE USE OF SAND ABRASIVES FOR WINTER TIRE TRACKING ARE PROHIBITED.

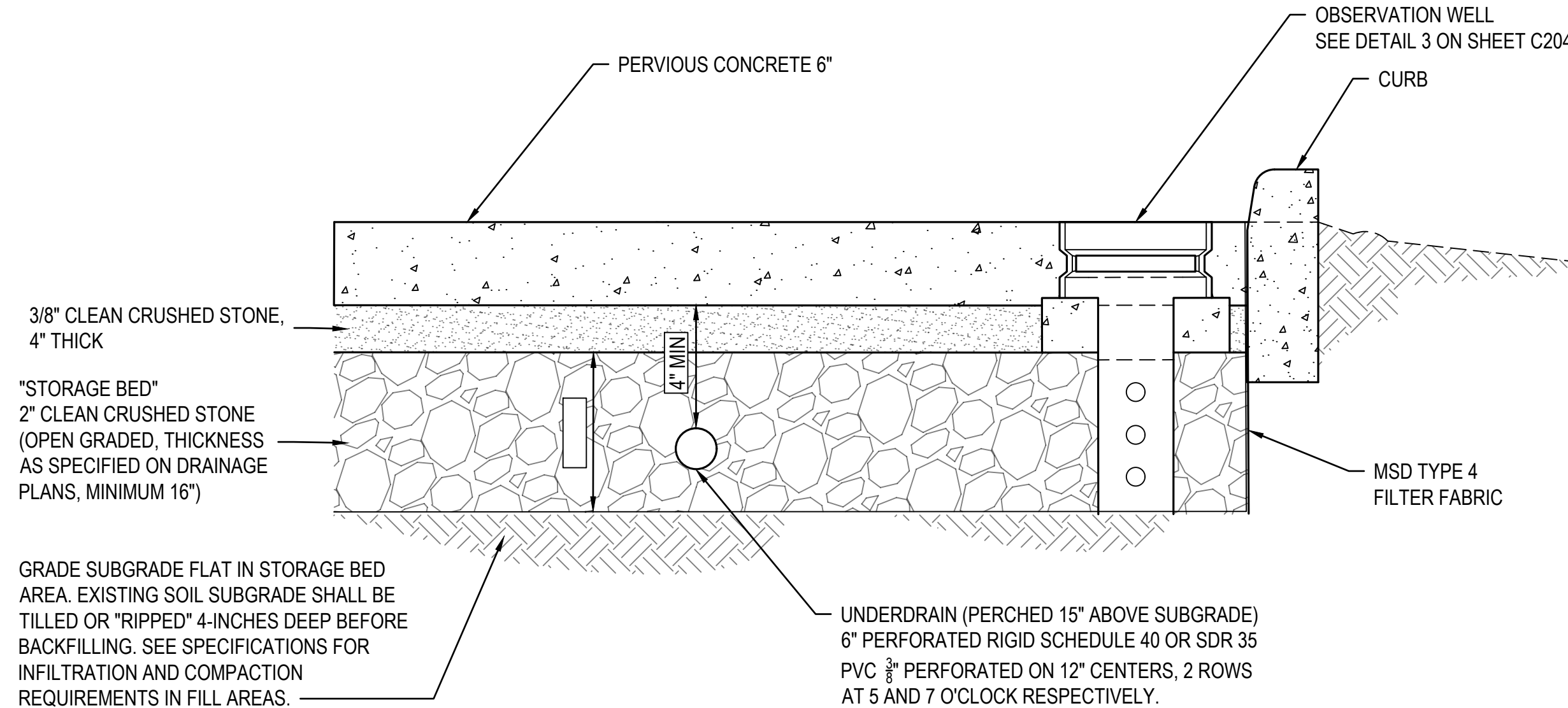
CARE SHALL BE TAKEN DURING SNOW PLOWING.

- NOTES:
- STANDARD 18"x12"x0.080" ALUMINUM SIGN FACE WITH BLACK TEXT ON WHITE BACKGROUND GALVANIZED STEEL POST 9'-6" LONG.
 - SET BOTTOM OF SIGN 5'-0" ABOVE GRADE.
 - SET BOTTOM OF POST 3'-0" BELOW GRADE.

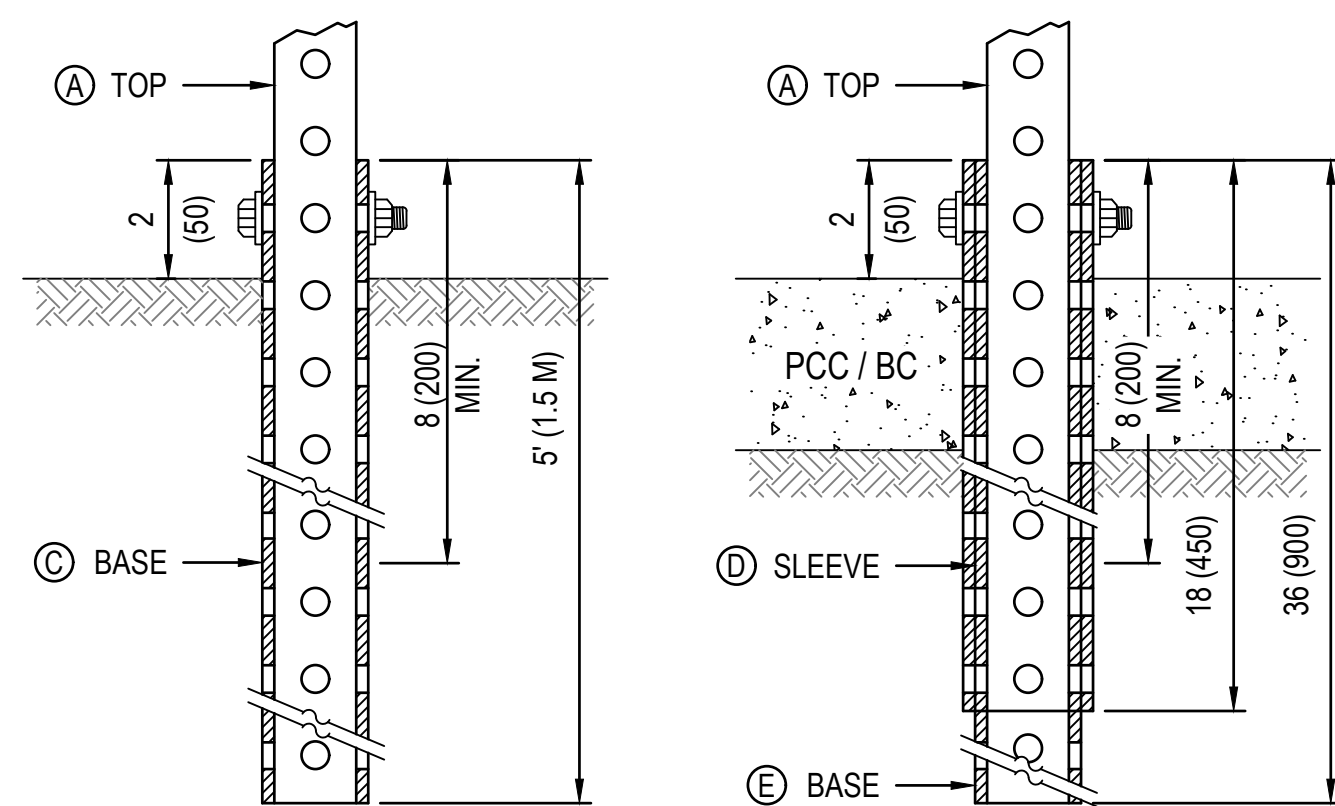
1 PERVIOUS CONCRETE INFORMATION SIGN
SCALE: NO SCALE



2 OBSERVATION WELL DETAIL
SCALE: NO SCALE



3 PERVIOUS CONCRETE PAVEMENT TYPICAL SECTION
SCALE: NO SCALE



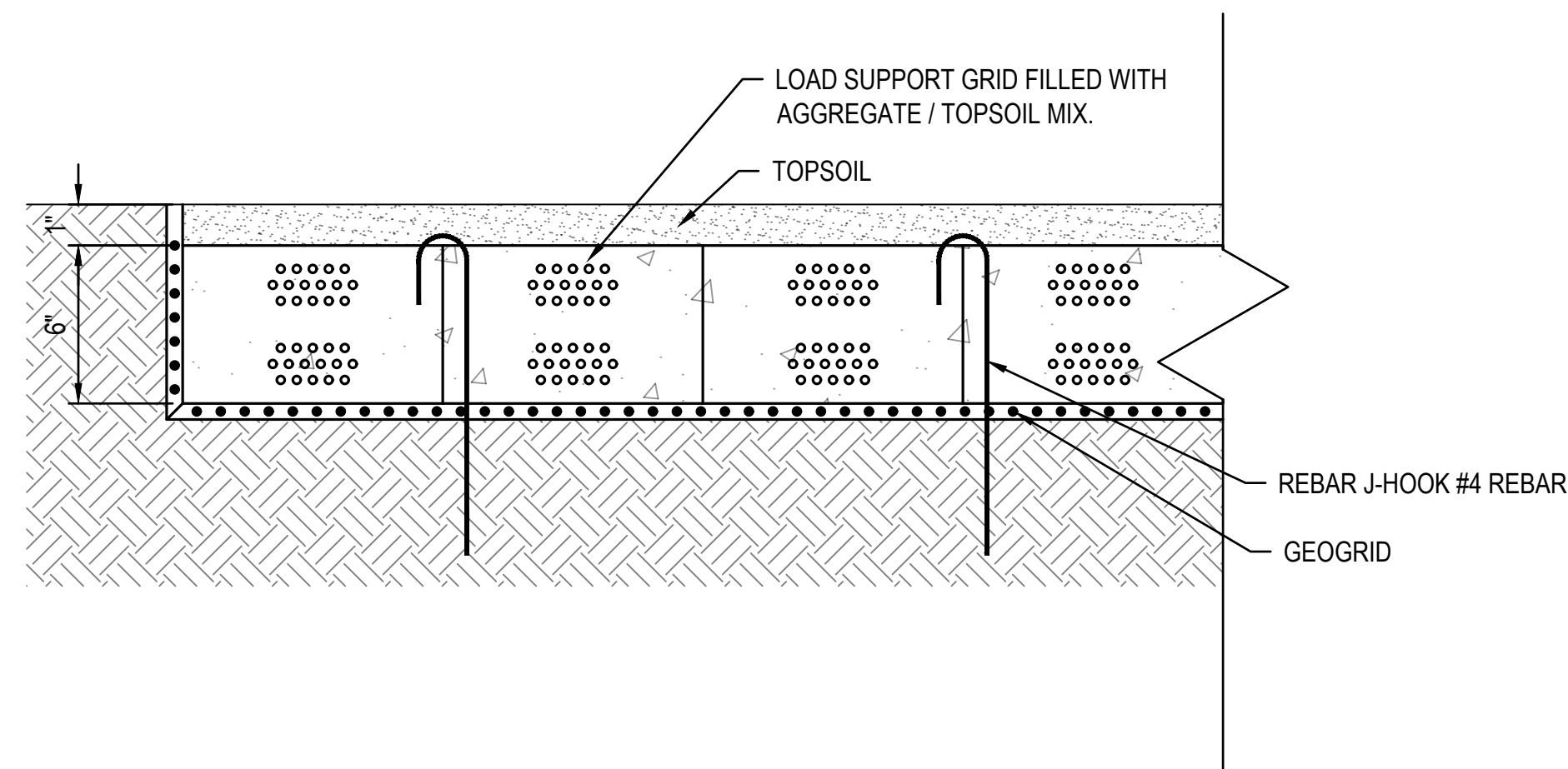
GROUND MOUNT DETAIL

PAVEMENT MOUNT DETAIL

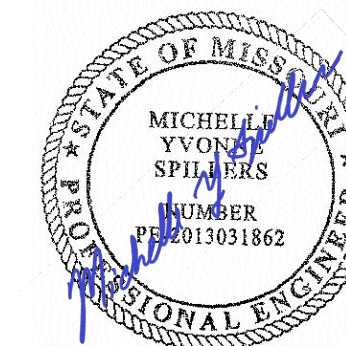
NOTES:
ALL SIGN POSTS AND COMPONENTS SHALL HAVE A BLACK POWDER COAT FINISH

(A)	2 x 2 x var. (51 x 51 var.)
(B)	1 3/4 x 1 3/4 x 12 (44 x 44 x 300)
(C)	2 1/4 x 2 1/4 x 60 (57 x 57 x 1500)
(D)	2 1/2 x 2 1/2 x 18 (64 x 64 x 450)
(E)	2 1/4 x 2 1/4 x 36 (57 x 57 x 900)

4 TELESCOPING STEEL SIGN SUPPORT
SCALE: NO SCALE



5 GEOGRID PAVERS
SCALE: NO SCALE



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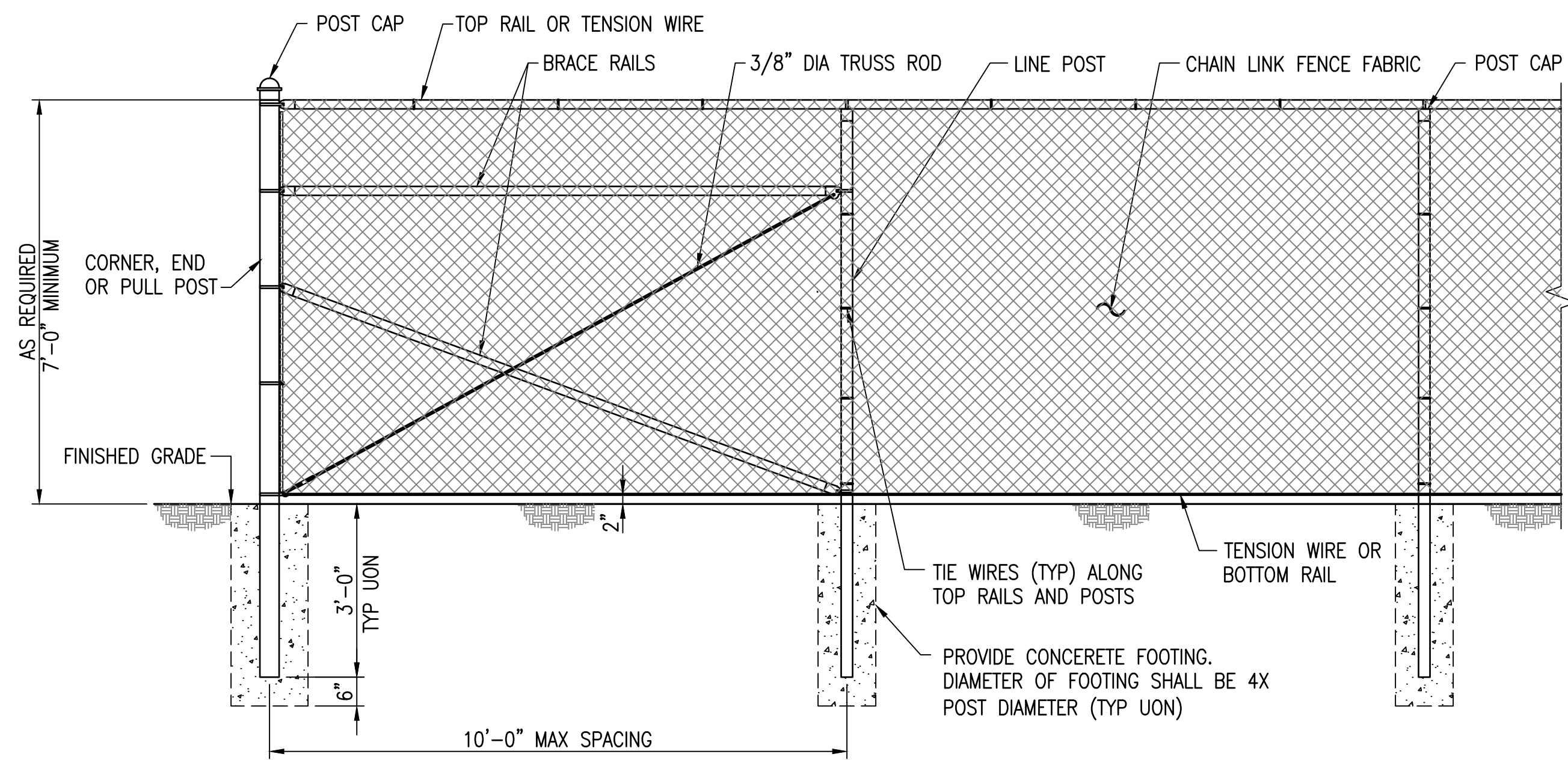
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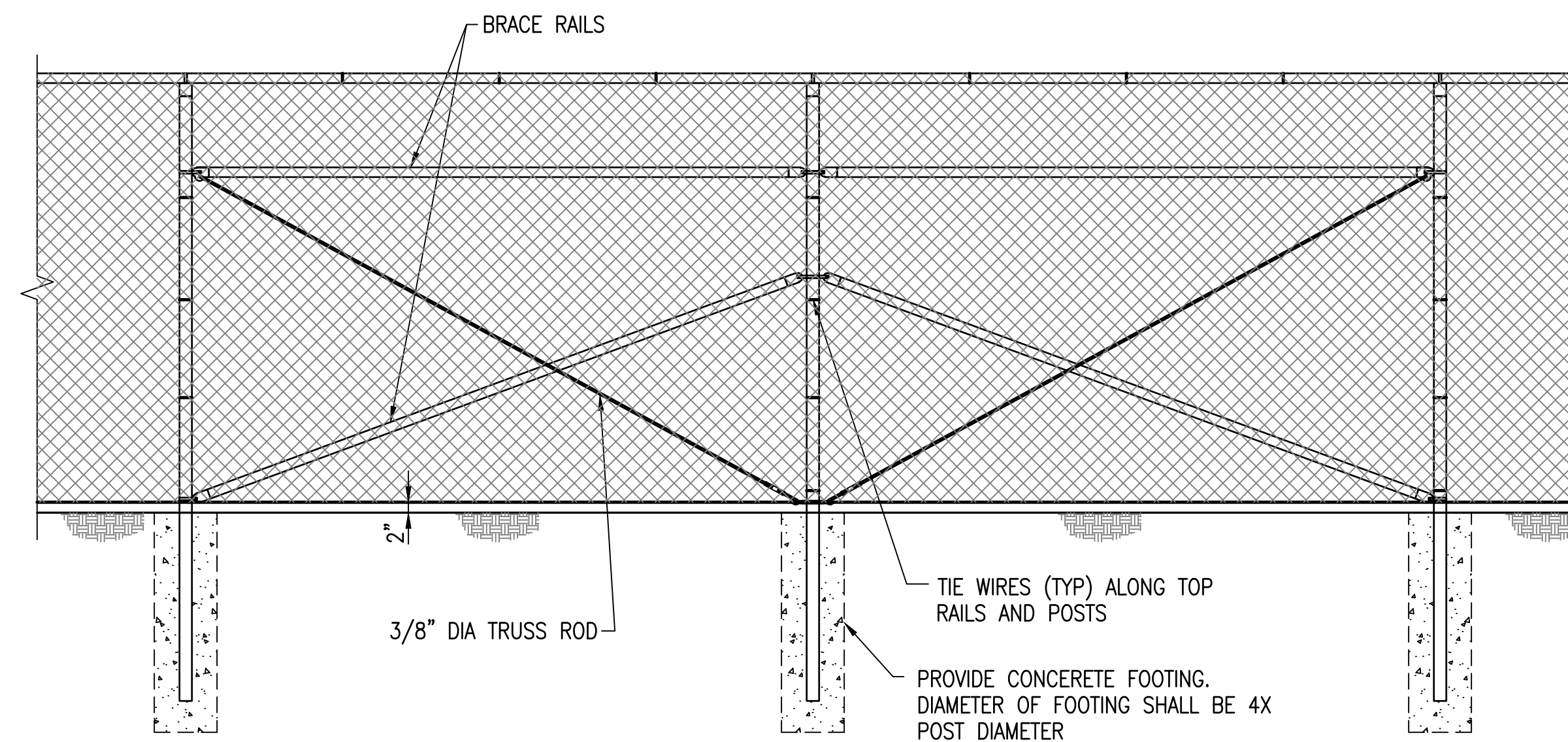
C204

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05/03/2024



TYPICAL FENCE AND CORNER PANEL ELEVATION

SCALE: 1" = 1'-0"

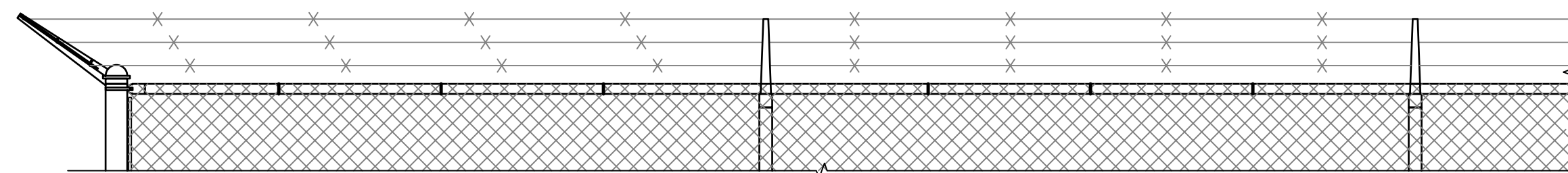


TYPICAL FENCE AND BRACED PANEL ELEVATION

SCALE: 1" = 1'-0"

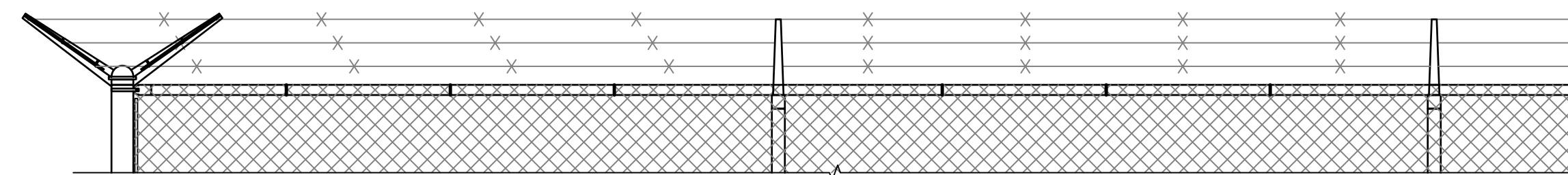
NOTE (1): A BOTTOM RAIL CAN BE ADDED FOR SECURITY, IT SHALL BE INSTALLED APPROX 3" ABOVE GRADE (A MINIMUM OF 2" AND A MAXIMUM OF 4"). HARDWARE SHALL BE WELDED OR SHOT NAILED TO POSTS AND RAILS IN ORDER TO SECURE IN PLACE. ATTACH FABRIC TO NEW BOTTOM RAIL TO ELIMINATE POSSIBILITY OF PEELING UP FABRIC.

NOTE (2): SOME LOCATIONS MAY REQUIRE 8' OF FABRIC.



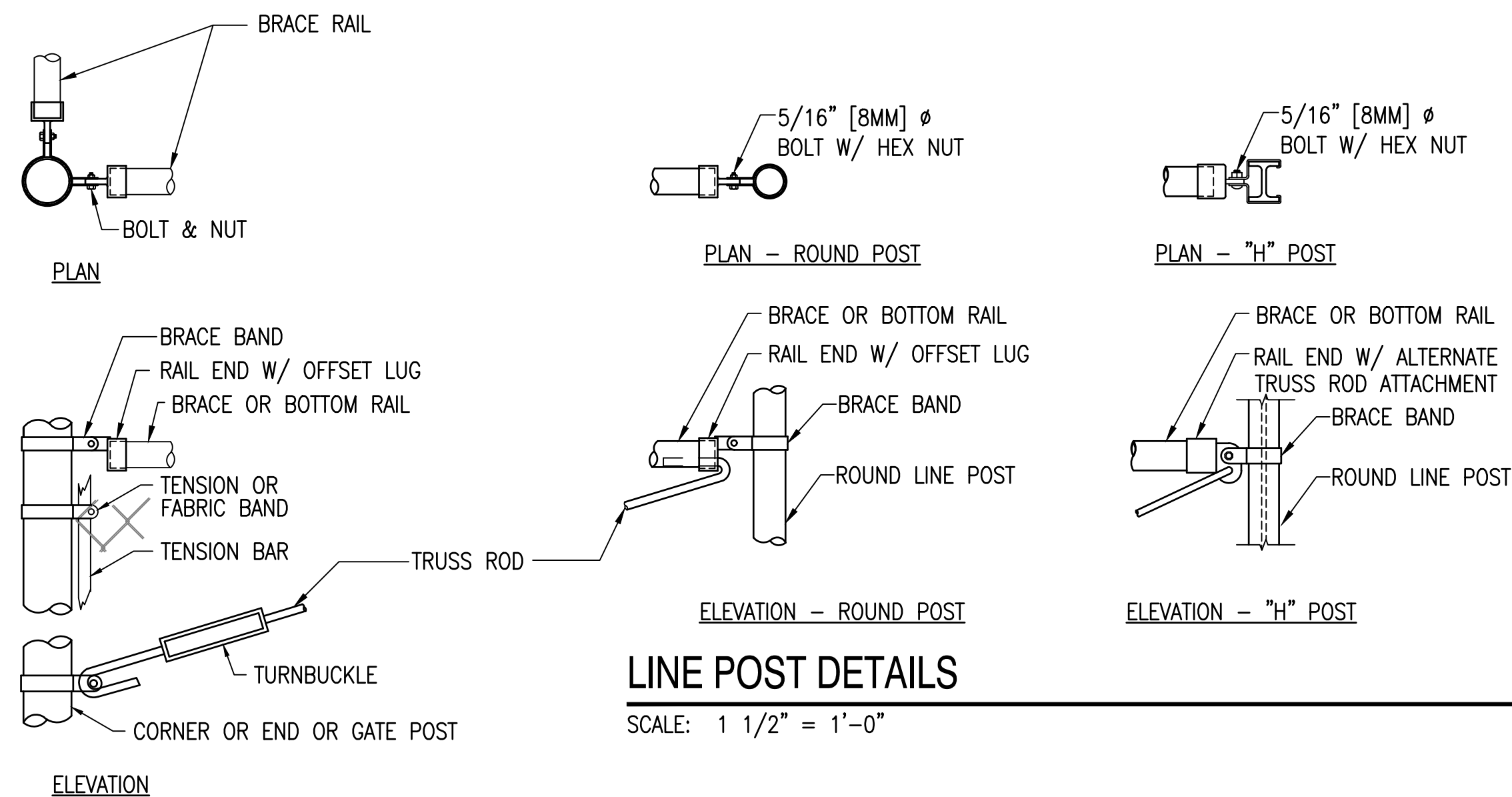
TYPICAL 3 STRAND BARBED WIRE AND SINGLE EXTENSION ARM CONFIGURATION

SCALE: 1" = 1'-0"



TYPICAL 6 STRAND BARBED WIRE AND DOUBLE EXTENSION ARM CONFIGURATION

SCALE: 1" = 1'-0"

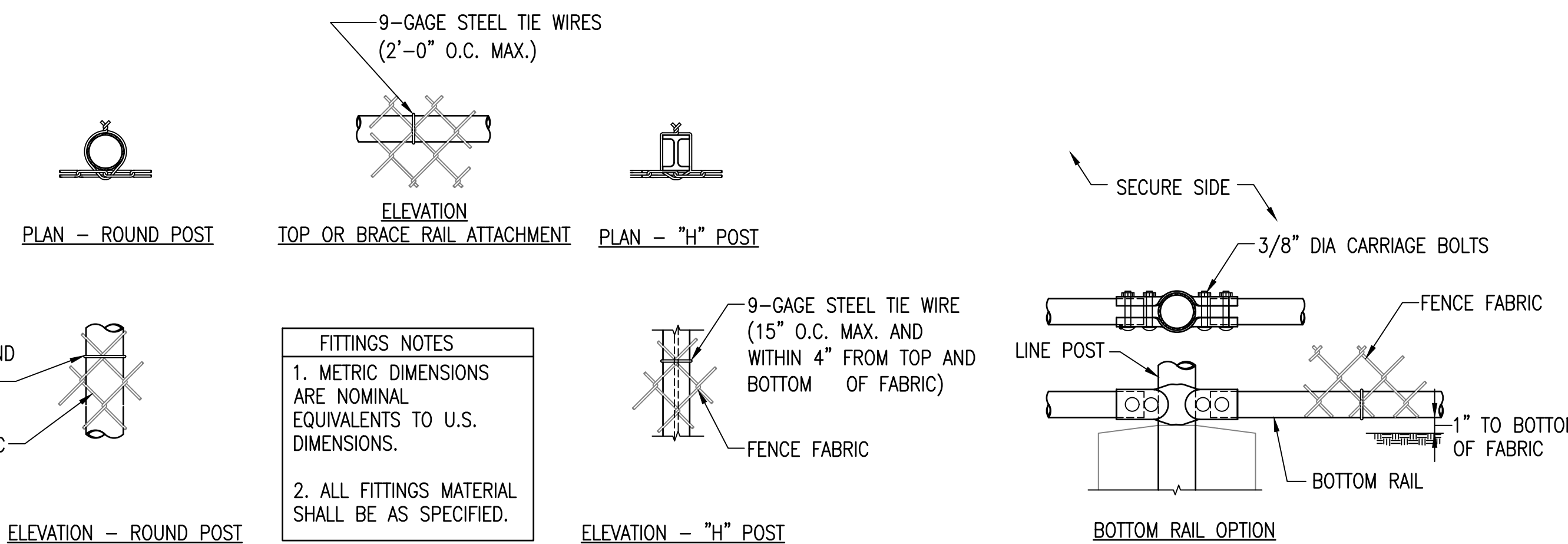
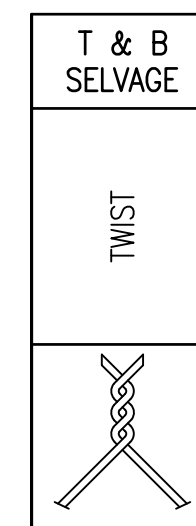


LINE POST DETAILS

SCALE: 1 1/2" = 1'-0"

CORNER OR END POSTS

SCALE: 1 1/2" = 1'-0"



FITTINGS NOTES

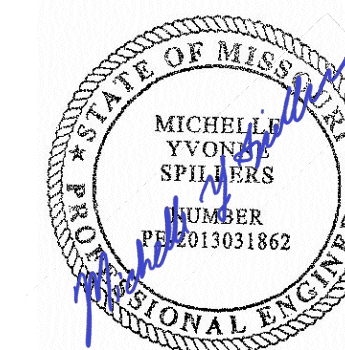
1. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.

2. ALL FITTINGS MATERIAL SHALL BE AS SPECIFIED.

UFC - 700 - UNIFIED FACILITIES CRITERIA 4-022-03 SECURITY ENGINEERING: FENCES, GATES AND GUARD FACILITIES
DEFINITIVE DRAWINGS FOR SECURITY FENCING, GATES AND CABLING - CHAIN LINK FENCE AND DETAILS

1

SCALE: NO SCALE



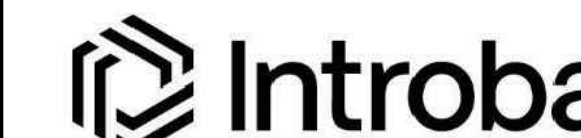
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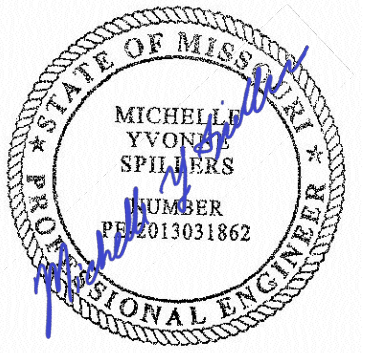
CAD DWG FILE: _____
DRAWN BY: EJS
CHECKED BY: MYS
DESIGNED BY: EJS

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18 OF 272 SHEETS
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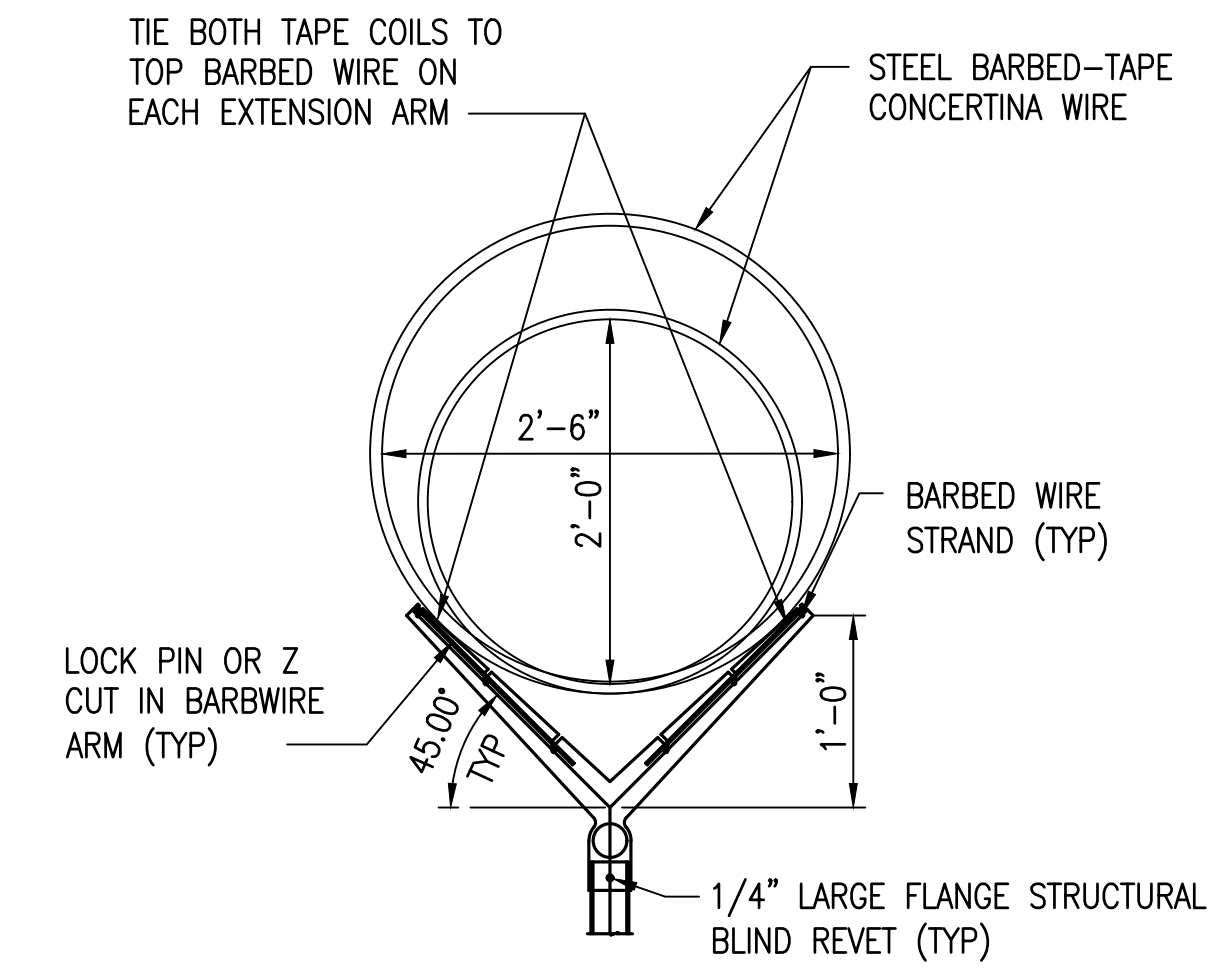
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DRAWN BY: EJS
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DESIGNED BY: EJS

SHEET TITLE:
Site Details

SHEET NUMBER:

C206

19 OF 272 SHEETS
05/03/2024



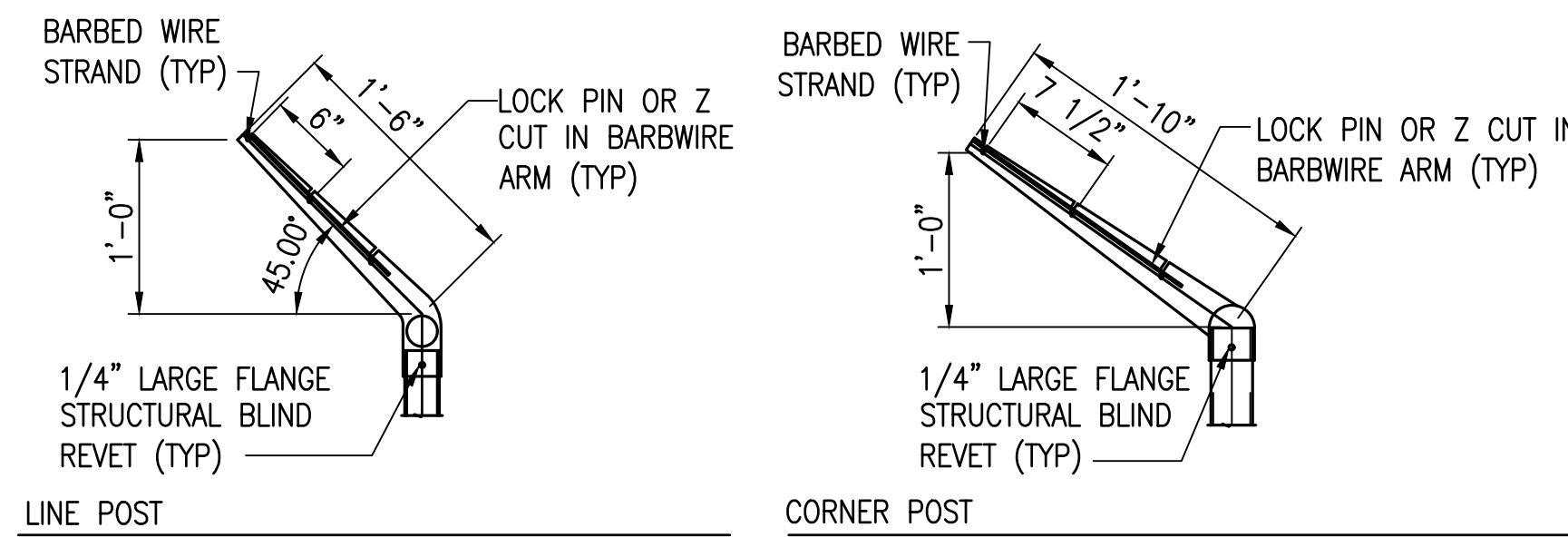
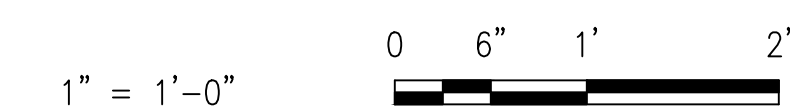
CONCERTNA WIRE MOUNTING

SCALE: 1" = 1'-0"

CHAIN LINK FENCING NOTES

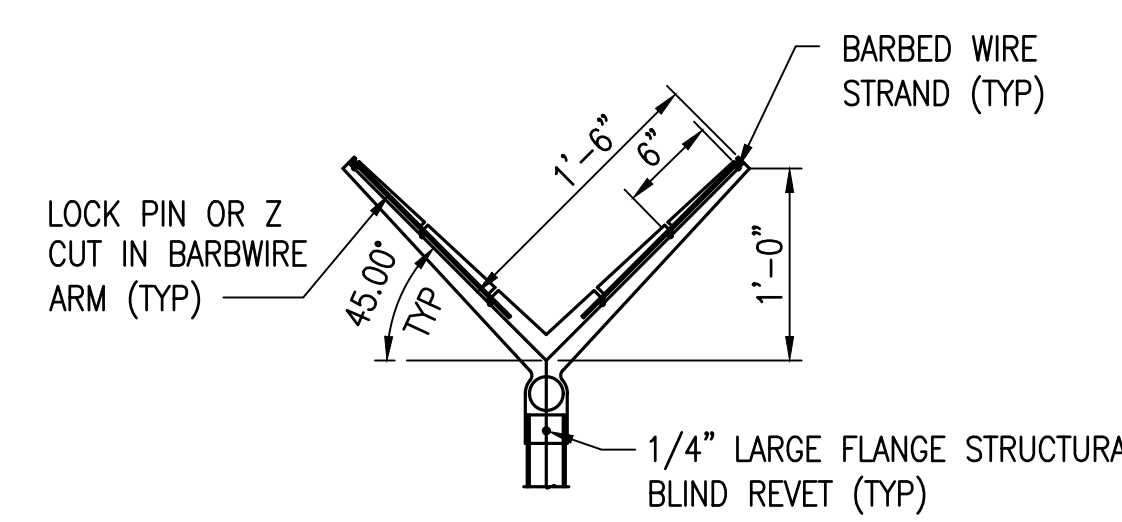
- FABRIC:** THE STANDARD FENCE FABRIC SHALL BE VINYL, ZINC OR ALUMINUM-COATED STEEL WIRE CHAIN LINK WITH MESH OPENINGS NOT LARGER THAN TWO INCHES PER SIDE AND A TWISTED AND BARBED SELVAGE AT TOP AND BOTTOM IN ACCORDANCE WITH THE SPECIFICATIONS. UTILIZE 6-GAUGE FOR BASE PERIMETER OR HEIGHTENED SECURITY ZONES AND 9-GAUGE FOR BASE INTERIOR OR WHEN JOINING AN EXISTING FENCE WHICH IS ALREADY 9-GAUGE.
- FABRIC TIES:** ONLY 12-GAUGE STEEL TIES SHALL BE USED. COATING OR PLATING WILL BE ELECTROLYTICALLY COMPATIBLE WITH THE FENCE FABRIC TO INHIBIT CORROSION.
- REINFORCEMENT:** TENSION WIRES SHALL BE INSTALLED AND INTERWOVEN (OR AFFIXED WITH FABRIC TIES) ALONG THE TOP & BOTTOM OF THE FENCE FOR STABILIZATION OF THE FENCE FABRIC.
- FENCE HEIGHT:** CHAIN LINK FABRIC SHALL BE 7' HIGH WITH AN ADDITIONAL 1' IN HEIGHT COMPOSED OF 3 STRANDS OF BARBED WIRE AS REQUIRED. THE TOTAL FENCE HEIGHT SHALL BE 8'.
- GROUND CLEARANCE:** BOTTOM OF THE FENCE FABRIC SHALL BE WITHIN TWO INCHES OF FIRM SOIL.
- TOP GUARDS:** A TOP GUARD IS AN OVERHANG OF BARBED WIRED ALONG THE TOP OF A FENCE, FACING OUTWARD (AWAY FROM PROTECTED SITE) AND UPWARD AT APPROX. 45 ANGLE. TOP GUARD SUPPORTING ARMS WILL BE PERMANENTLY AFFIXED TO THE TOP OF FENCE POSTS TO INCREASE THE OVERALL HEIGHT OF THE FENCE AT LEAST 1 FOOT. THREE STRANDS OF 12-GAUGE BARBED WIRE, EQUALLY SPACED, SHALL BE INSTALLED ON THE SUPPORTING ARMS.
- FENCE POSTS:** SHALL BE ASTM F1043 OR F1083 ROUND PIPE OR SQUARE TUBE AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS. FENCE POST SPACING AND SIZE (DIAMETER) SHALL BE DETERMINED IN ACCORDANCE WITH CHAIN LINK FENCE MANUFACTURERS' INSTITUTE (WLG 2445). SPACING SHALL NOT EXCEED 10'-0" OC. SIZE (DIAMETER) SHALL NOT BE LESS THAN THAT SPECIFIED.

GRAPHIC SCALES



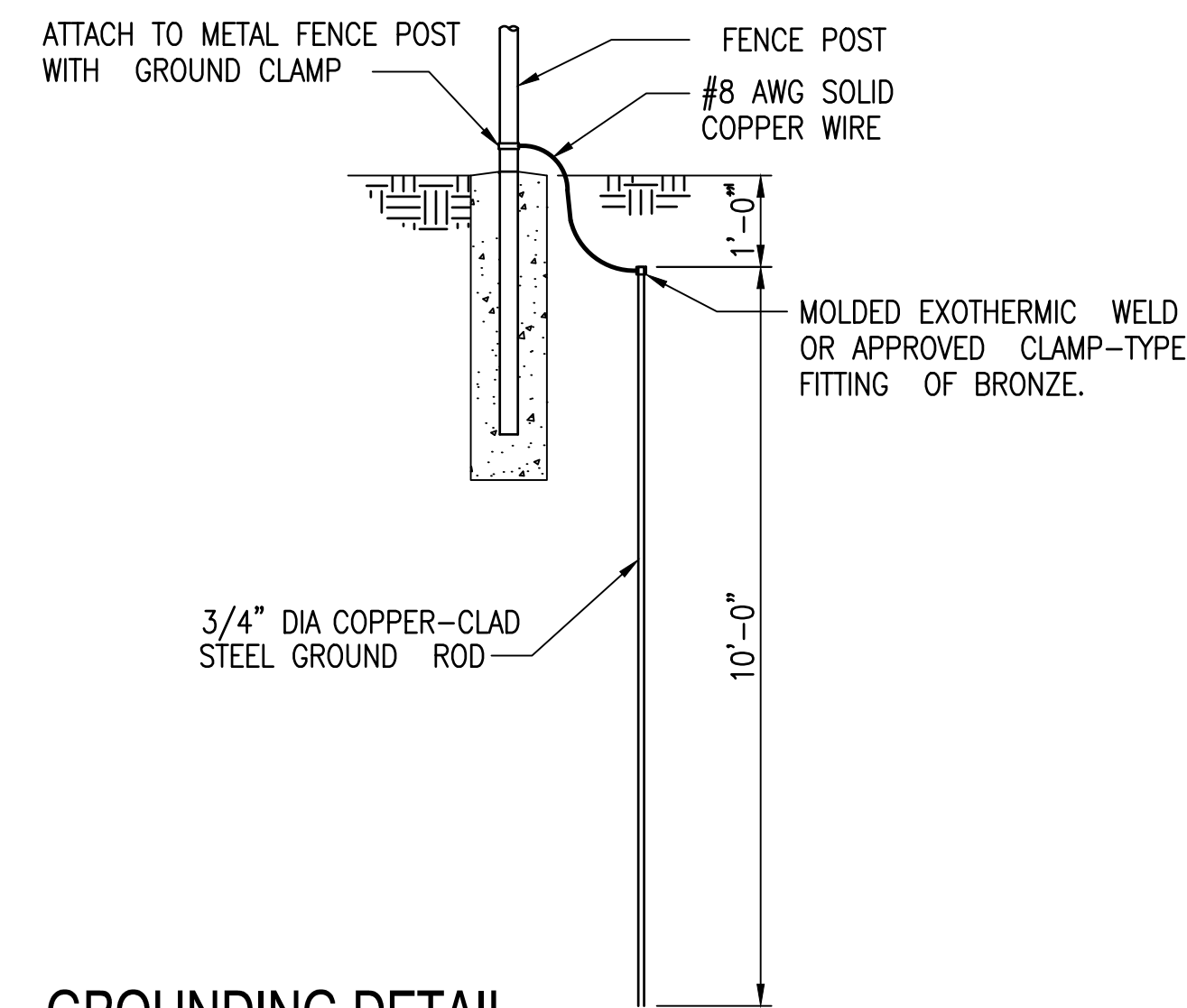
SINGLE EXTENSION ARM DETAILS

SCALE: 1" = 1'-0"



DOUBLE EXTENSION ARM DETAILS

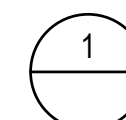
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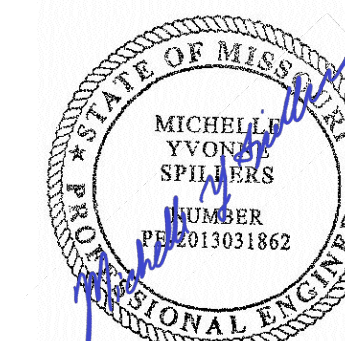
GROUNDING DETAIL

NO SCALE

UFC - 701 - UNIFIED FACILITIES CRITERIA 4-022-03 SECURITY ENGINEERING: FENCES, GATES AND GUARD FACILITIES
DEFINITIVE DRAWINGS FOR SECURITY FENCING, GATES AND CABLING - BARBED WIRE ARRANGEMENT DETAILS



SCALE: NO SCALE



DATE: 05/03/2024
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63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

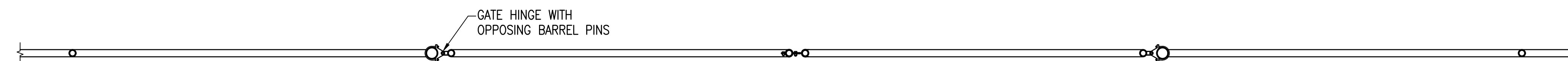
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SHEET TITLE:
Site Details

SHEET NUMBER:

C207

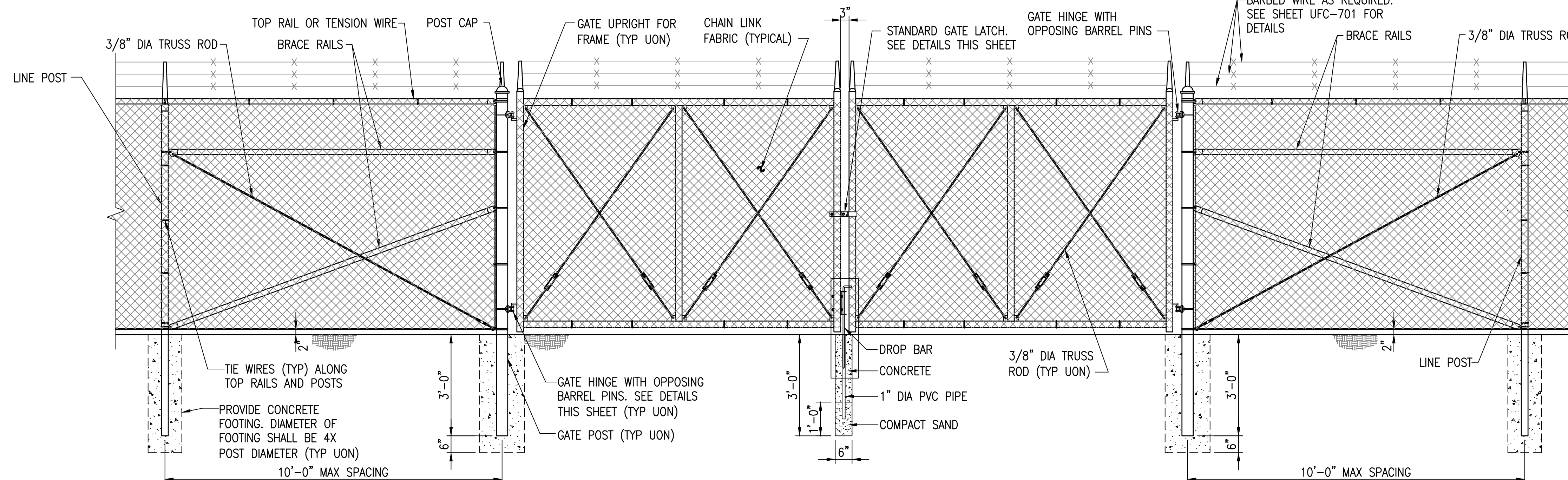
20 OF 272 SHEETS
05/03/2024

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4



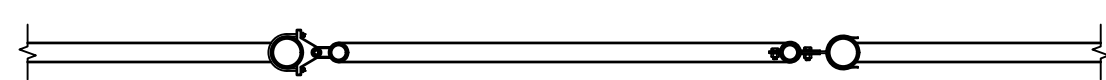
PLAN - DOUBLE SWING GATE

SCALE: 1" = 1'-0"



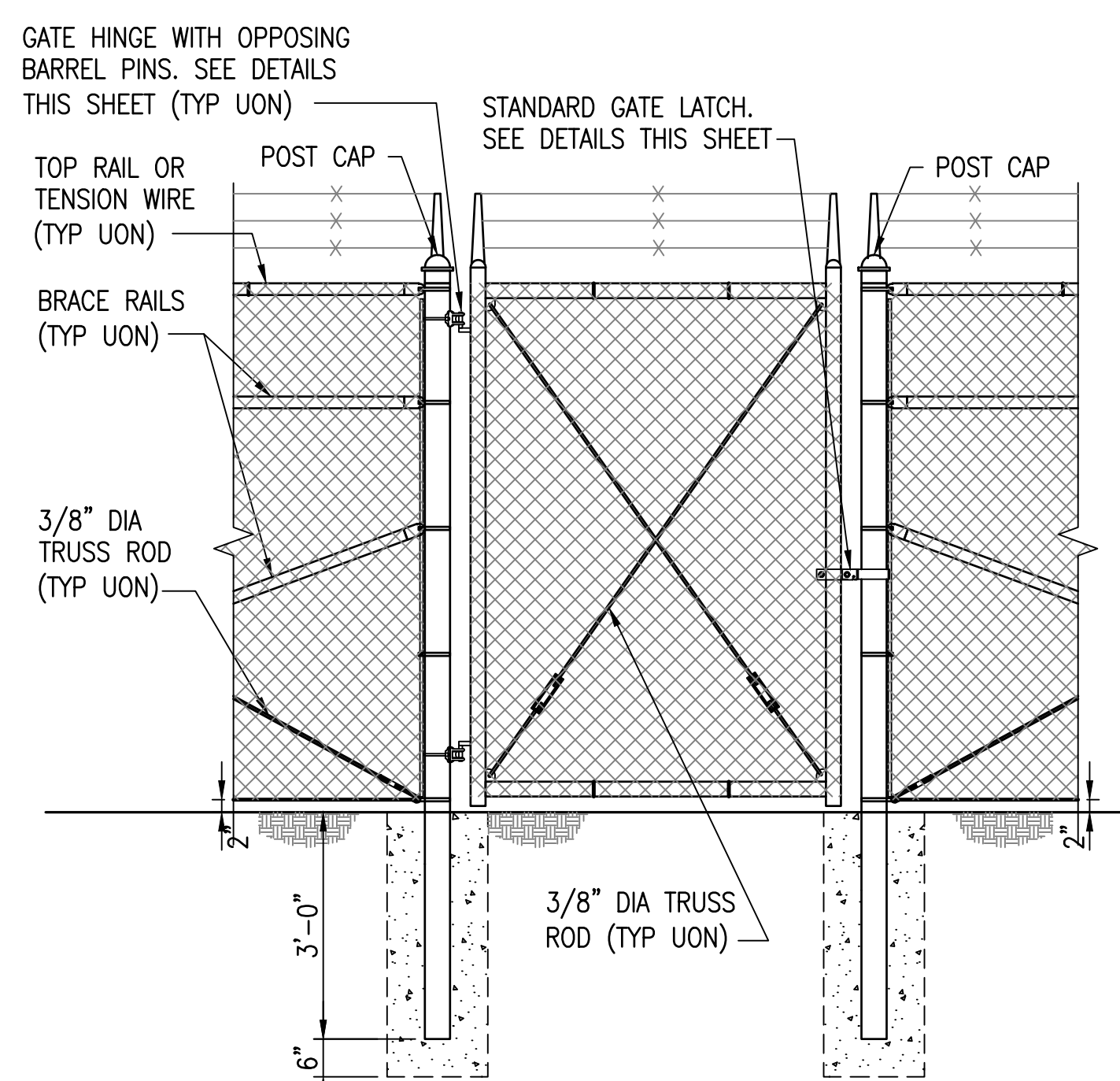
TYPICAL DOUBLE SWING GATE ELEVATION

SCALE: 1/2" = 1'-0"



PLAN SINGLE SWING GATE

SCALE: 1" = 1'-0"



TYPICAL FENCE SINGLE SWING GATE ELEVATION

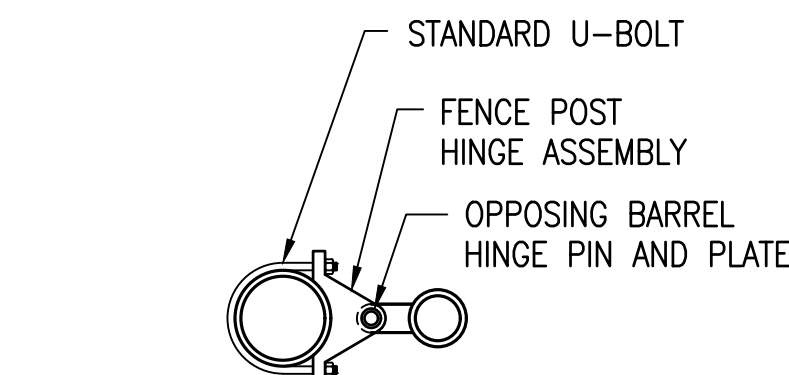
SCALE: 1/2" = 1'-0"

SINGLE OR DOUBLE LEAF GATES		
NOM HEIGHT (H)	UPRIGHT HT (U)	FRAME HT (F)
NOM HT INCLUDING BARBED WIRE	ACTUAL DIM	ACTUAL DIM
8'-0" [2438MM]	7'-10" [2388MM]	6'-8 1/2" [2045MM]

SINGLE LEAF GATES		
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	SQUARE & ROUND SIZES	POST TO UPRIGHT
3'-0" [914MM]	2.5" [63.5MM] SQ x 3/16" TH THROUGH	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]
6'-0" [1829MM]	2.875" [73MM] OD	
6'-0" [1829MM]	4" [102MM] SQ x 3/16" TH THROUGH	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]
12'-0" [3657MM]	4" [102MM] OD	
12'-0" [3657MM]	6" [153MM] SQ x 3/16" TH THROUGH	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]
19'-0" [5790MM]	6.625" [168MM] OD	
19'-0" [5790MM]	8" [203MM] SQ x 1/4" TH THROUGH	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]
23'-0" [7010MM]	8.625" [219MM] OD	

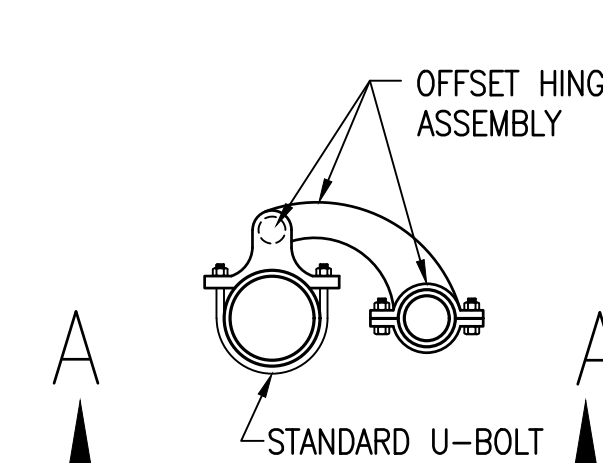
GATE POSTS & FOUNDATIONS: GATE POST SIZE AND ASSOCIATED FOOTING DIAMETER TO BE DETERMINED BY MANUFACTURER, BASED ON LEAF WEIGHT & DIMENSION, BUT NOT LESS THAN DIAMETER SHOWN ON THESE DRAWINGS. MINIMUM FOOTING DIAMETERS (TO BE FILLED W/4000 PSI CONC): 40" Ø FOR 8" POST; 36" Ø FOR 6" POST; 24" Ø FOR 4" POST; OTHER SIZES TO BE DESIGNED BY MFR OR KTR. NO FOOTING WIDTH SHALL BE LESS THAN 4(X) THE POST WIDTH.

NOTE: IF GATE HINGES ARE NOT OPPOSING (AS SHOWN ABOVE) OR LEAF IS NOT LOCKED MECHANICALLY TO THE HINGES, WELD AN ANGLE, PLATE, OR BLOCK ABOVE HINGE TO RESTRICT LEAF FROM BEING REMOVED OR LIFTED OFF. RESTRICTION SHALL NOT HINDER OPERATION OF GATE.



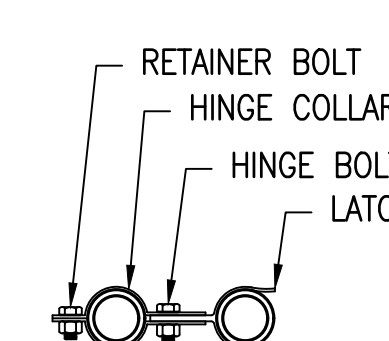
GATE HINGE DETAIL

SCALE: 1 1/2" = 1'-0"



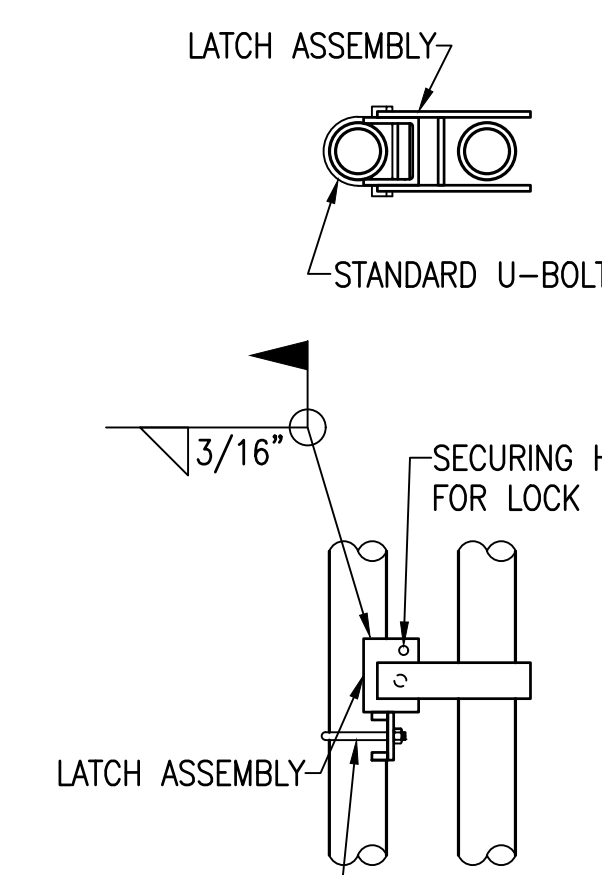
OFFSET HINGE DETAIL

SCALE: 1 1/2" = 1'-0"



GATE LATCH DETAIL

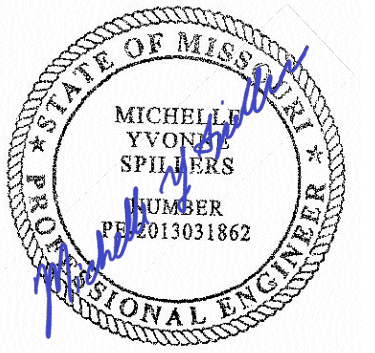
SCALE: 1 1/2" = 1'-0"



FULCRUM LATCH DETAIL

SCALE: 1 1/2" = 1'-0"

(*NOTE: WELD HINGES TO POST IF INSTALLING CABLE REINFORCEMENT ON GATES. ENSURE CORRECT HEIGHT FOR FULL OPERATION PRIOR TO WELDING (TYPICAL))



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PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

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ISSUE DATE: 05/03/2024

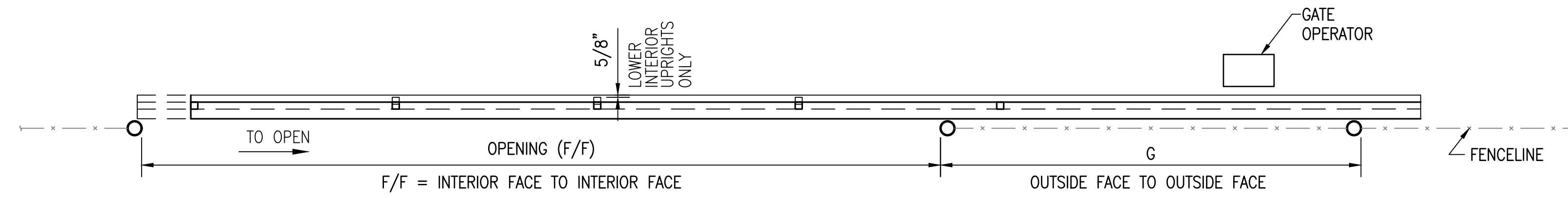
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SHEET TITLE:
Site Details

SHEET NUMBER:

C208

21 OF 272 SHEETS
05/03/2024

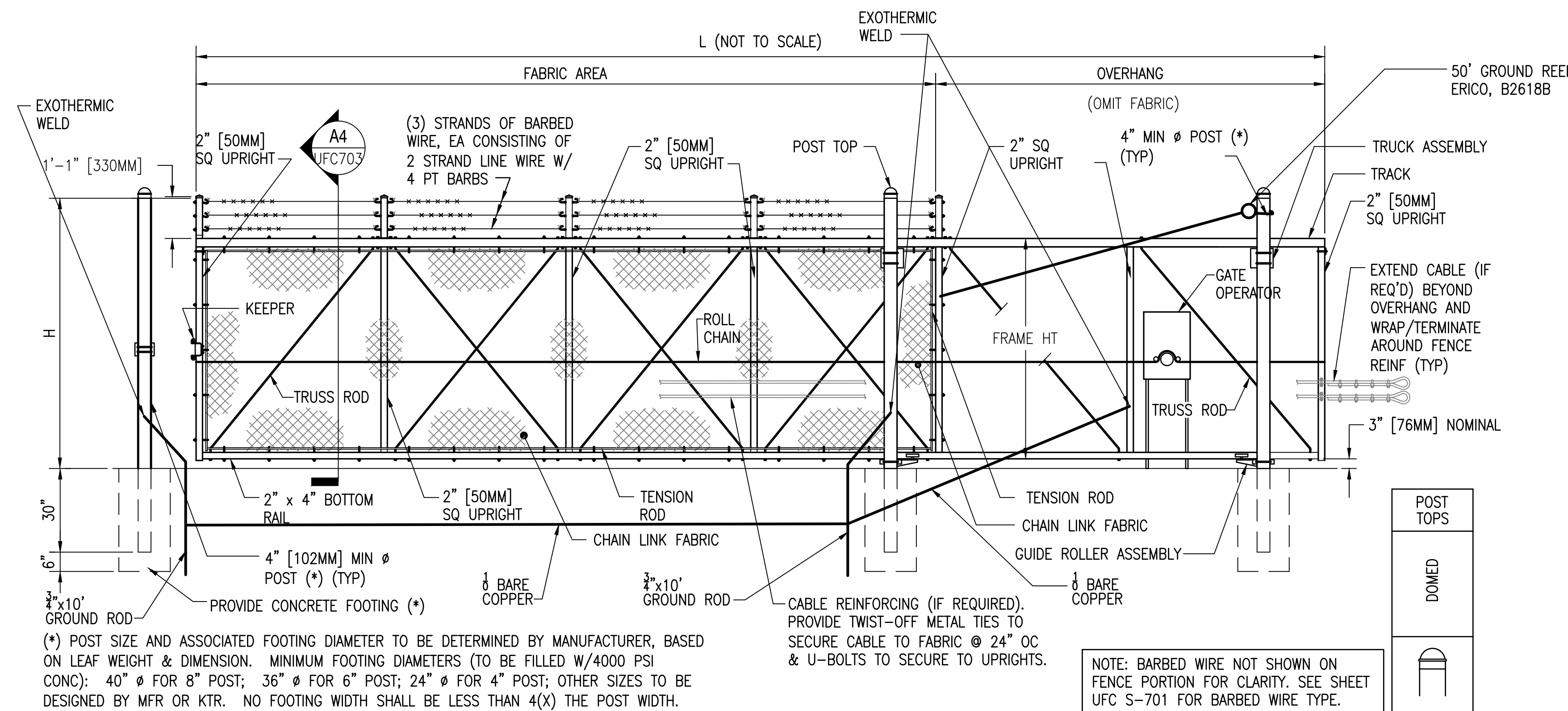


GATE PLAN

NOT TO SCALE

SAMPLING OF SIZES:

OPENING (F/F)	NOMINAL HEIGHT (H)	LENGTH (L)	GATE POSTS (G)	BAYS / OVERHANG
37'-0"	8'-0"	53'-3"	16'-0"	5 (FABRIC) / 2 (W/O)
30'-0"	8'-0"	42'-3"	12'-0"	4 (FABRIC) / 2 (W/O)
24'-0"	8'-0"	36'-3"	12'-0"	3 (FABRIC) / 2 (W/O)



TYPICAL SINGLE CANTILEVERED SLIDING GATE ELEVATION- (4) BAYS SHOWN

NOT TO SCALE

WITH ROUND POSTS & WITH BARBED WIRE
A1
UFC-703 | UFC-703

SECTION (TYP)

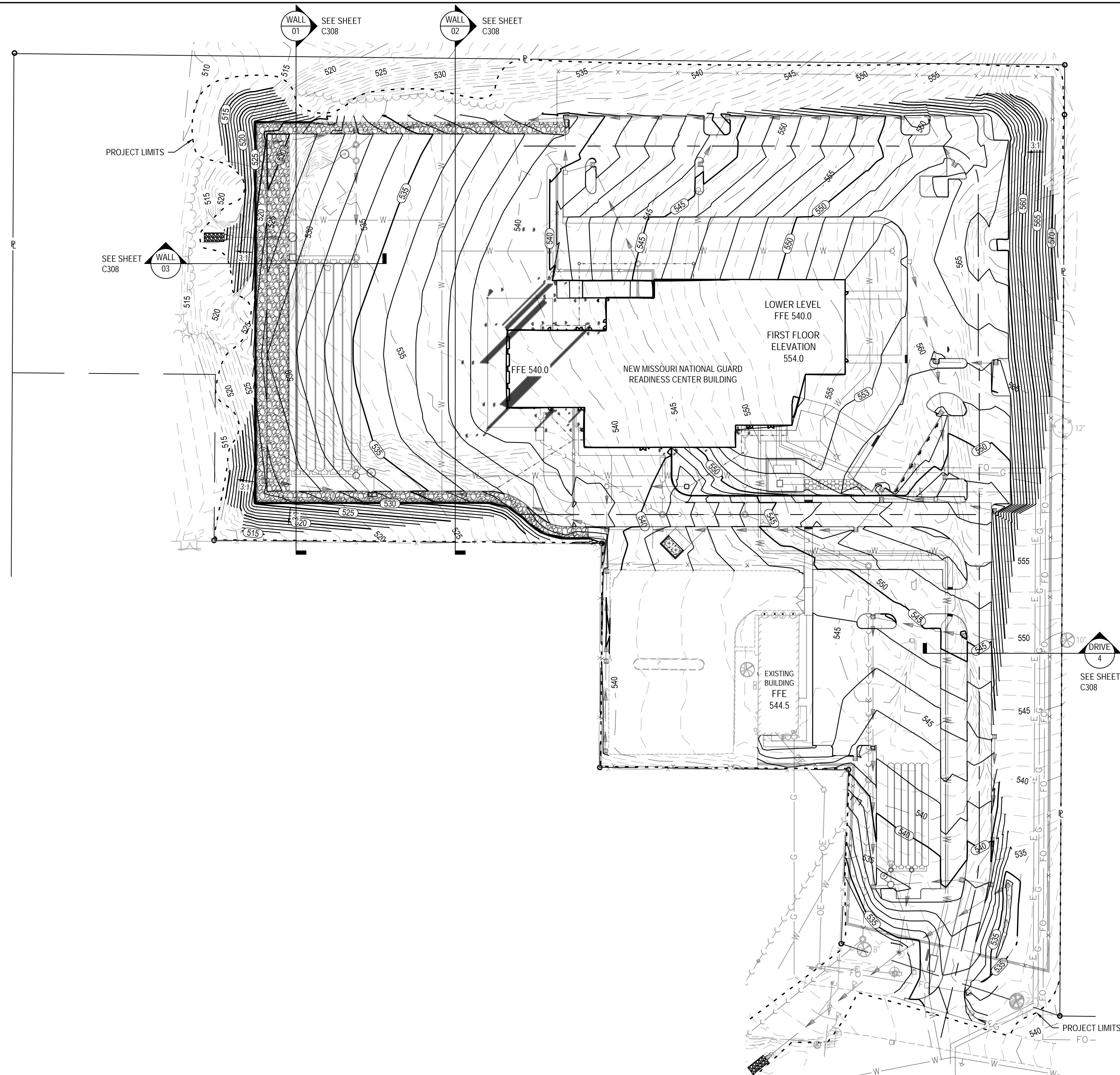
NOT TO SCALE

A4
UFC-703 | UFC-703

UFC - 703 - UNIFIED FACILITIES CRITERIA 4-022-03 SECURITY ENGINEERING: FENCES, GATES AND GUARD FACILITIES
DEFINITIVE DRAWINGS FOR SECURITY FENCING, GATES AND CABLING - CHAIN LINK CANTILEVERED GATE DETAILS

1

SCALE: NO SCALE



EARTHWORK

TOTAL SITE CUT	= 75,000 CY
TOTAL SITE FILL	= 14,300 CY (INCLUDING 1.15 ADJUSTMENT)
	+ 4,000 CY (FILL REMEDIATION AREAS ADD ALTERNATE 1)
EARTH WORK (MOVING)	14,300 CY
EARTHWORK (STOCKPILING / DOUBLE HANDLING)	4,000 CY
EARTHWORK (HAUL OFF)	56,700 CY

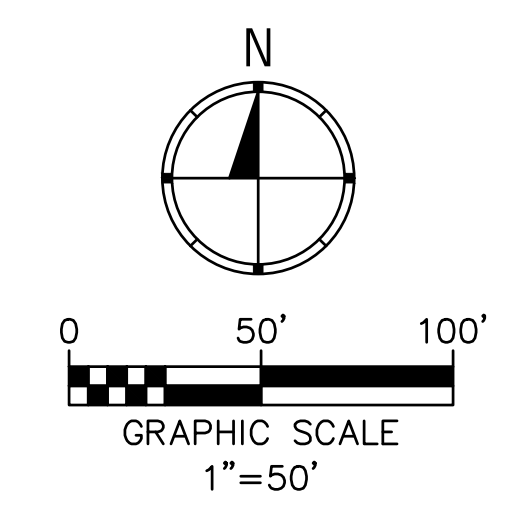
EARTHWORK VALUES INCLUDE ADDITIONAL REMOVAL IN THE FOLLOWING AREAS:
 3 FEET OF ADDITIONAL CUT UNDER WEST 20% OF BUILDING (ADD ALTERNATE 1)
 2 FEET OF ADDITIONAL CUT UNDER PAVED AREAS WITHIN THE CUT LIMITS OF THE EXISTING GRAVEL STOCKPILE LOCATION (ADD ALTERNATE 1)
 EXCAVATION FOR UNDERGROUND DETENTION
 BASE BID EXCLUDES ADDITIONAL REMOVAL AND REPLACEMENT UNDER BUILDING AND PAVED AREAS.
 ADD ALTERNATE #1 INCLUDES REMOVAL OF AN ADDITIONAL 3 FEET OF REMOVAL UNDER WEST 20% OF BUILDING AND 2 FEET OF ADDITIONAL REMOVAL UNDER PAVED AREAS AS NOTED ABOVE. ADD ALTERNATE #1 ALSO INCLUDES REPLACEMENT WITH SUITABLE FILL IN THESE AREAS.*

GRADING PLAN LEGEND

- xxx --- EXISTING CONTOUR ELEVATION
- (xxx) --- PROPOSED CONTOUR ELEVATION

NOTES

* ADD ALTERNATE 1 ITEMS ARE TO BE EXCLUDED FROM THE BASE BID AND INCLUDED IN ADD ALTERNATE 1. THE INTENTION OF ADD ALTERNATE 1 IS TO SEPARATE ITEMS FUNDED BY A DIFFERENT FUNDING SOURCE THAN THE BASE BID.



STATE OF MISSOURI
 MICHAEL L. PARSON,
 GOVERNOR



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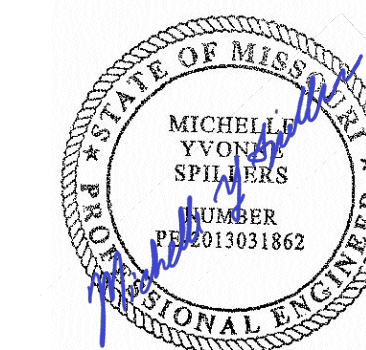
PROJECT # T2150-01
 SITE # 6322
 FACILITY # 8136322001

REVISION: _____
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 DATE: _____

ISSUE DATE: 05/03/2024
 CAD DWG FILE: _____
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 CHECKED BY: MYS
 DESIGNED BY: SW3

SHEET TITLE:
**Overall Grading
 Plan**

SHEET NUMBER:
C301
 22 OF 272 SHEETS
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PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

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REVISION:
DATE: _____

ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: SW3
CHECKED BY: MYS
DESIGNED BY: SW3

SHEET TITLE:
Grading Plan

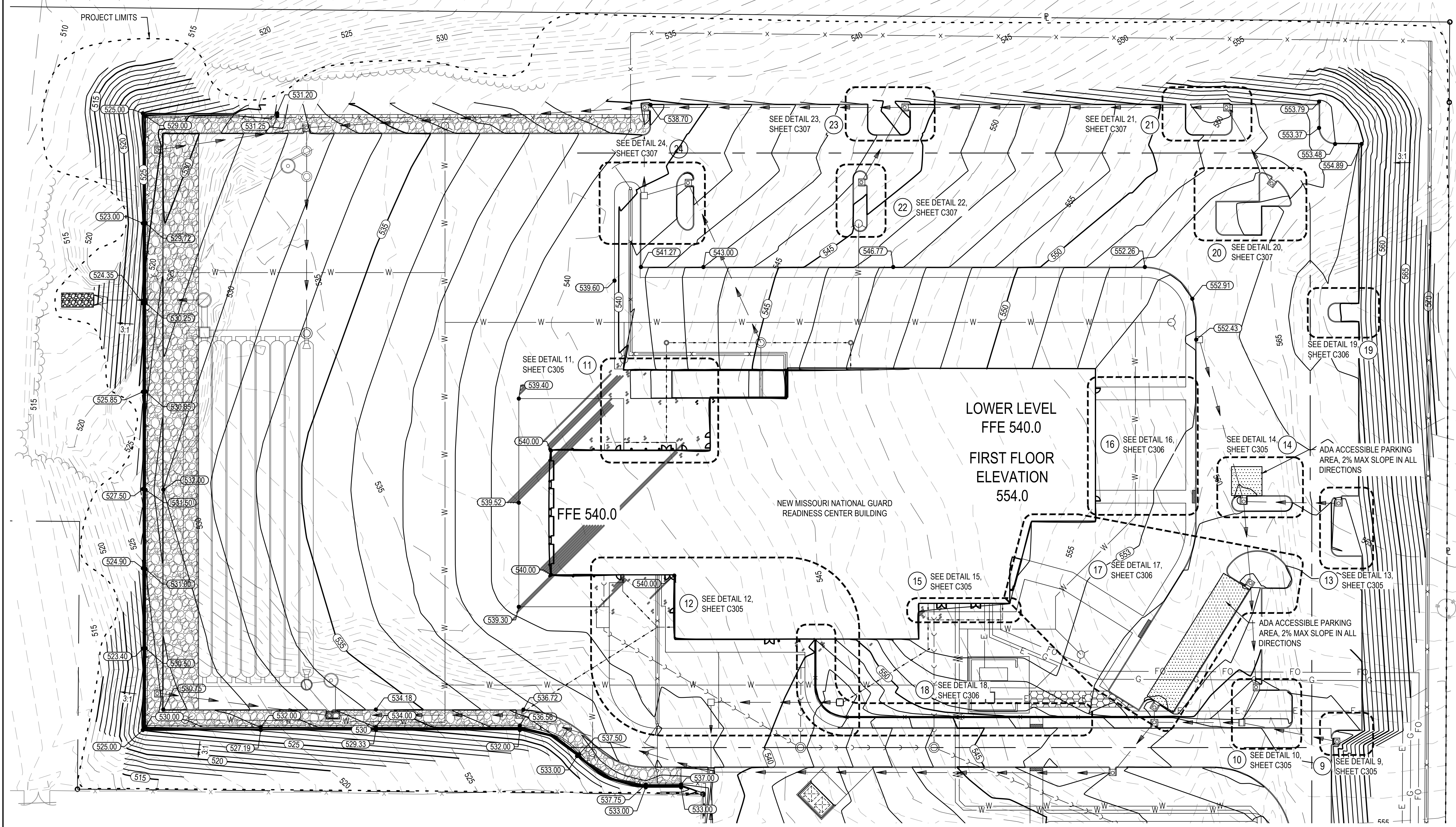
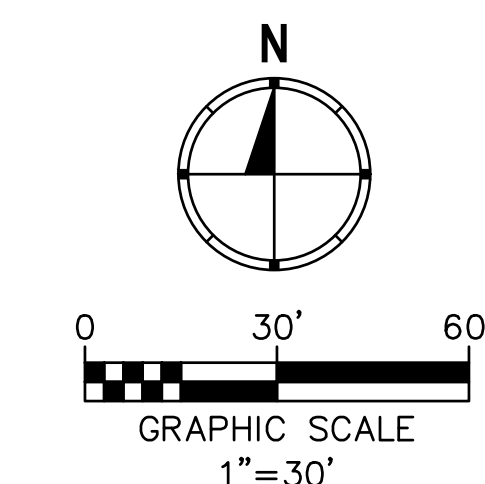
SHEET NUMBER:

C302

23 OF 272 SHEETS
05/03/2024

GRADING PLAN LEGEND

- xxx --- EXISTING CONTOUR ELEVATION
- (xxx) — PROPOSED CONTOUR ELEVATION





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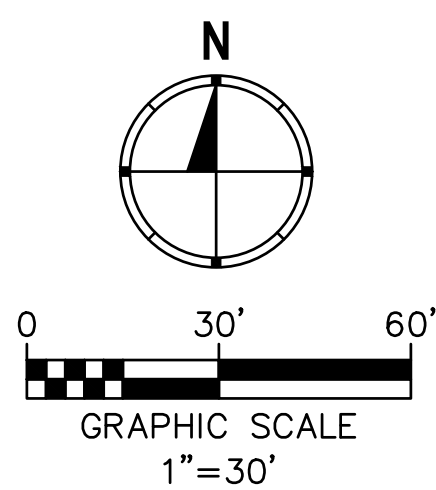
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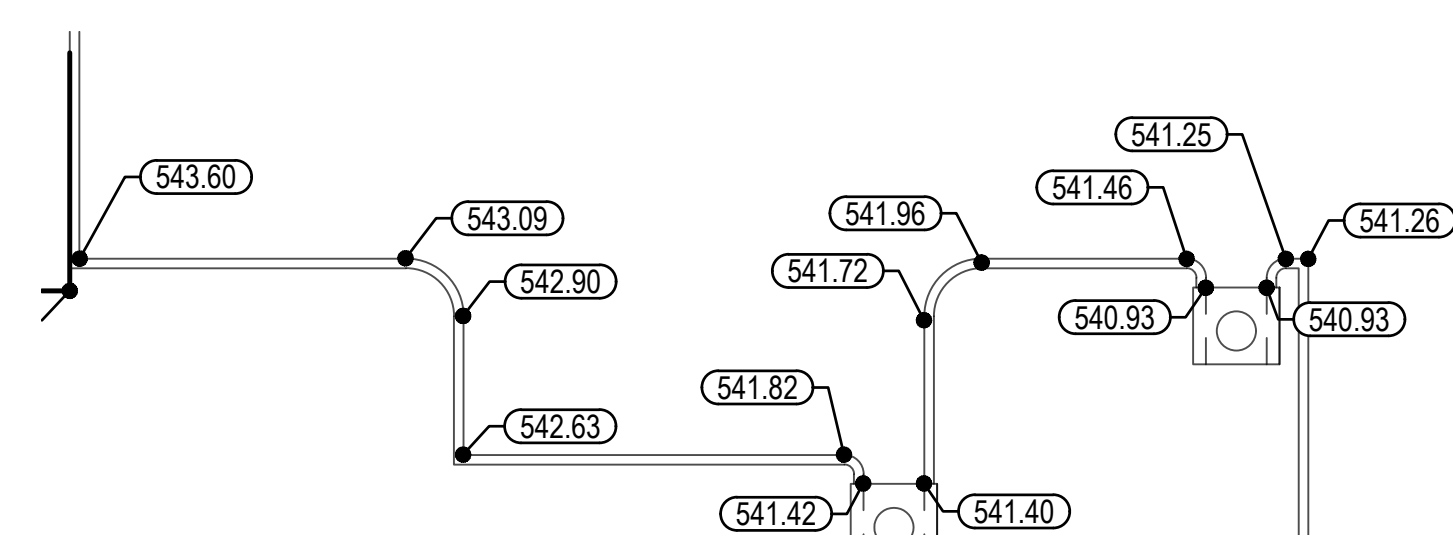
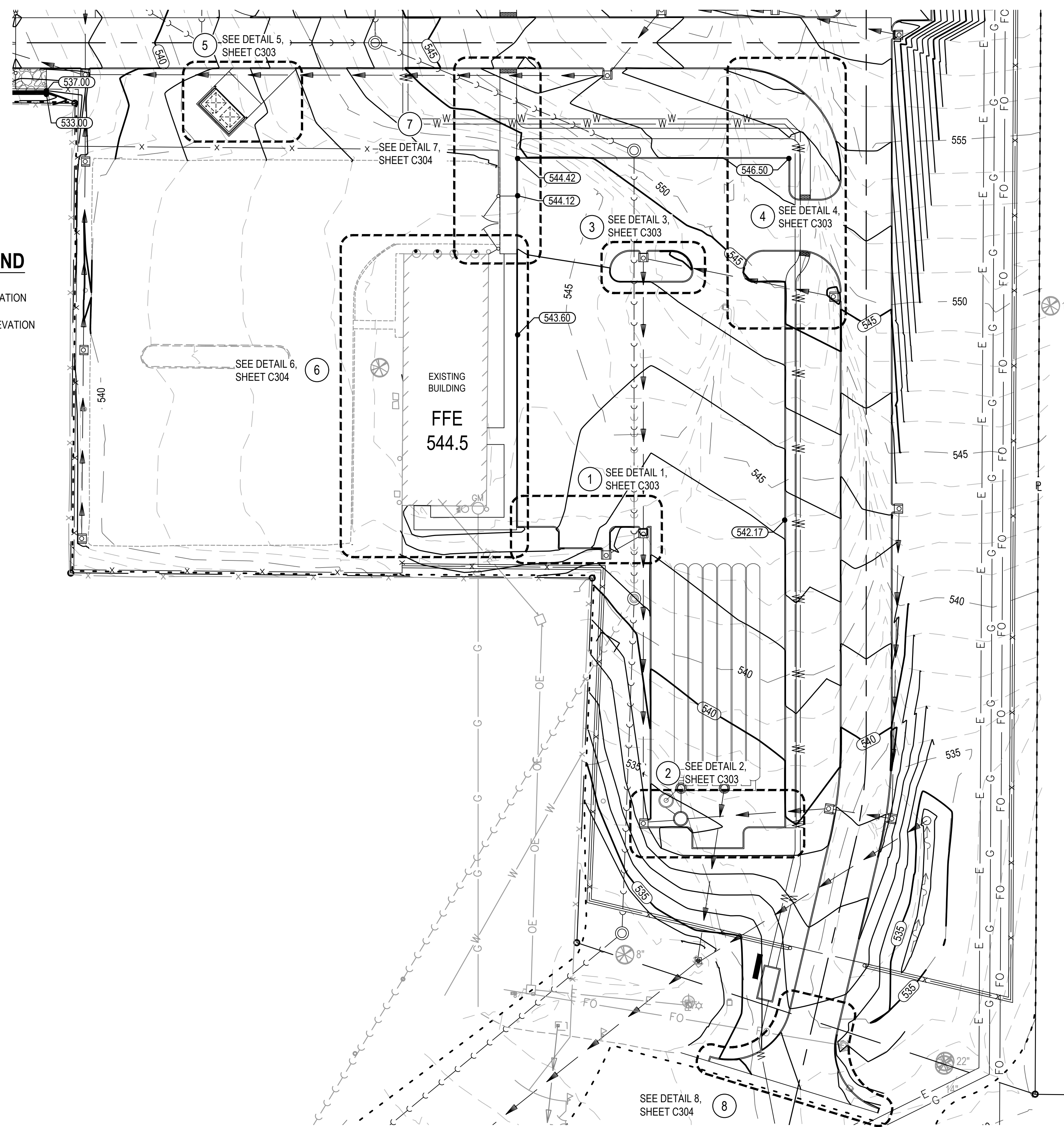
C303

24 OF 272 SHEETS
05/03/2024



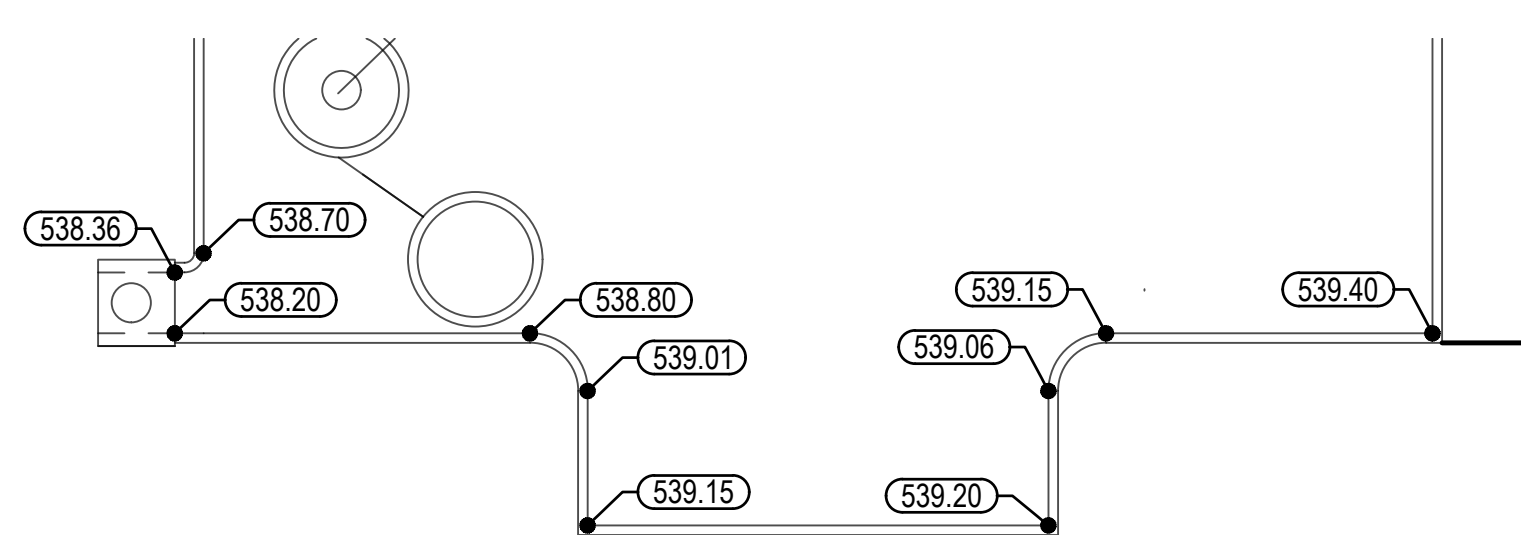
GRADING PLAN LEGEND

- xxx--- EXISTING CONTOUR ELEVATION
- (xxx)--- PROPOSED CONTOUR ELEVATION



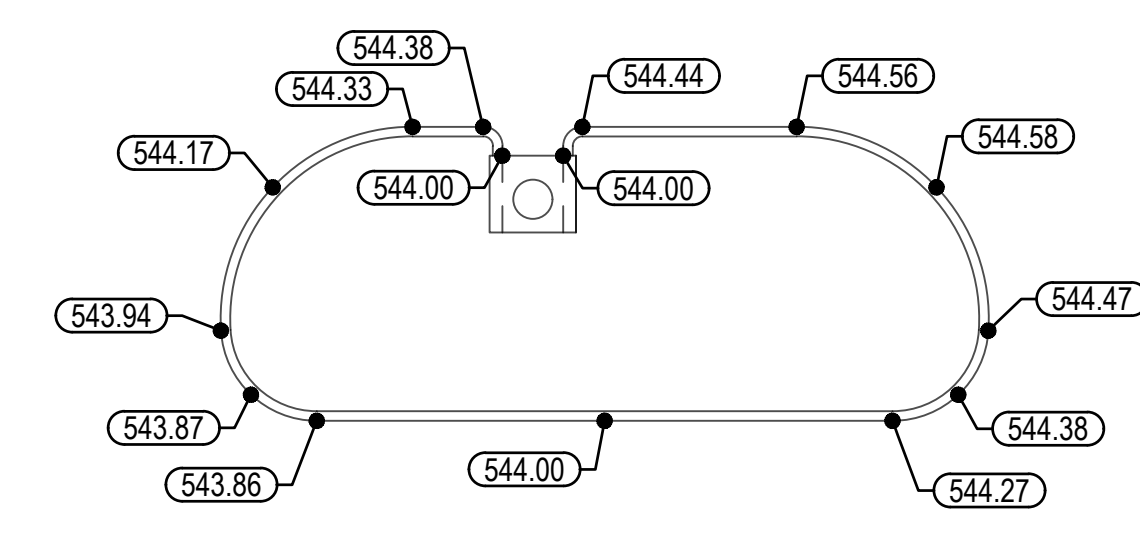
DETAILED GRADING #1

SCALE: 1" = 10'



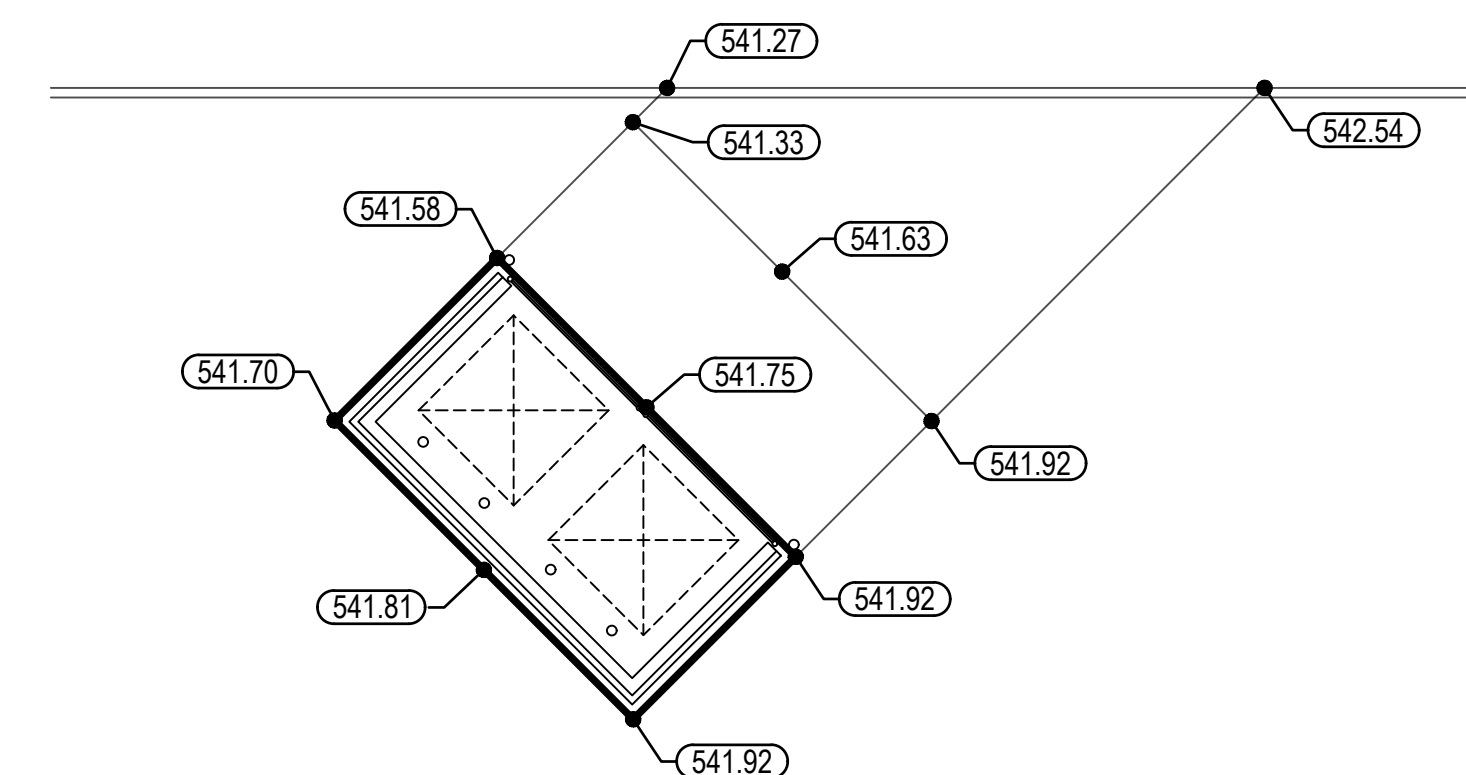
DETAILED GRADING #2

SCALE: 1" = 10'



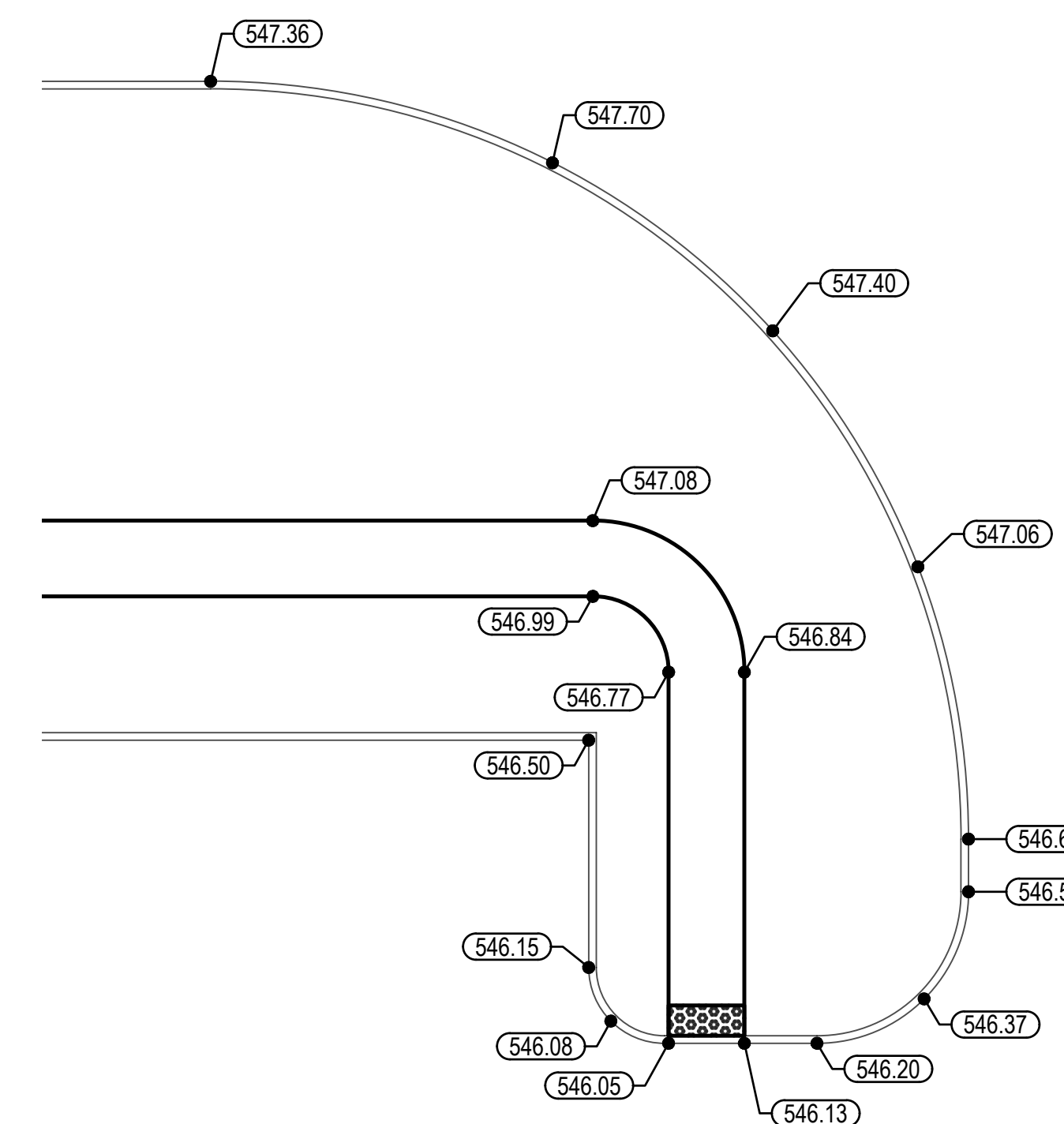
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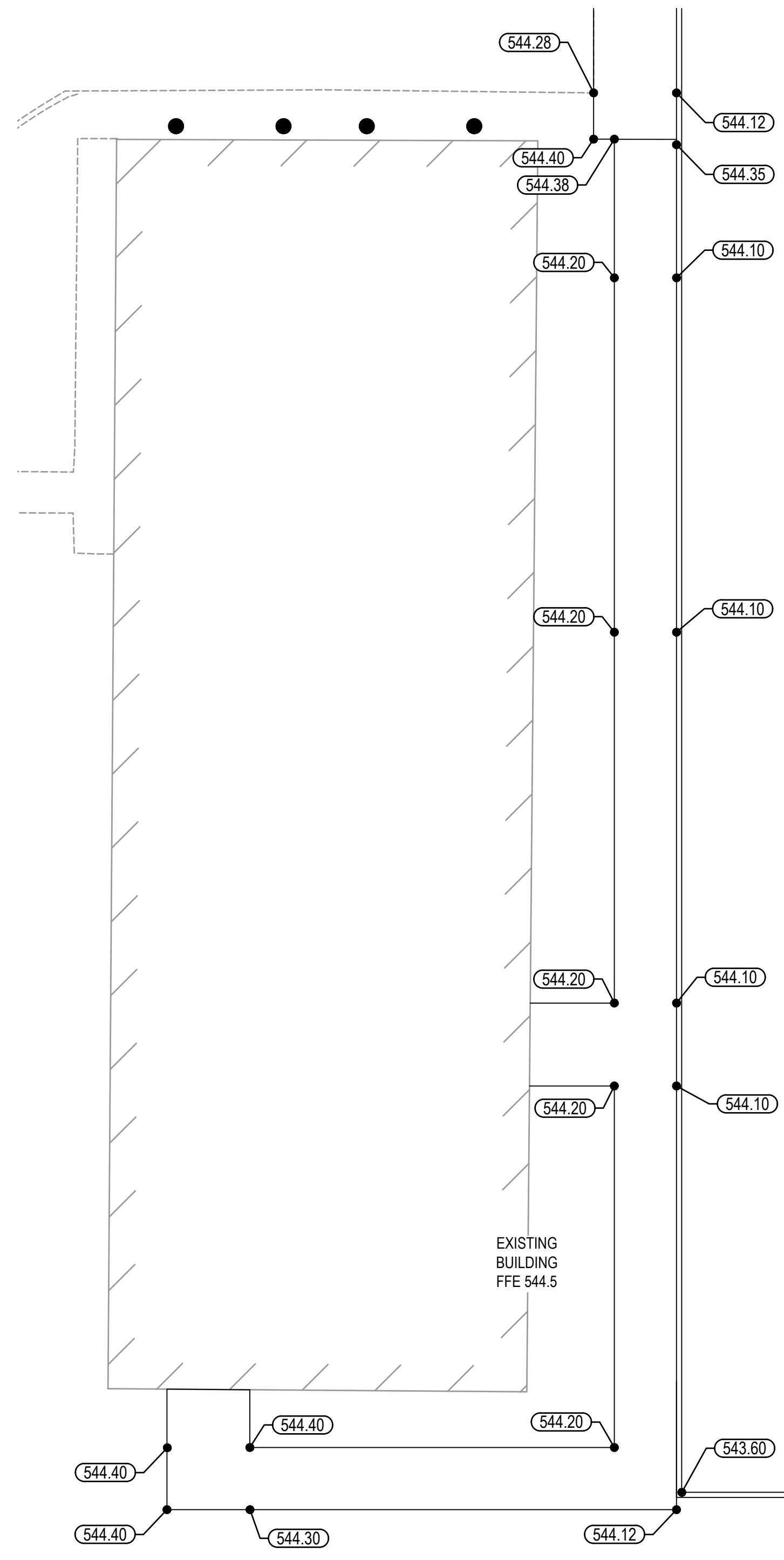
DETAILED GRADING #5

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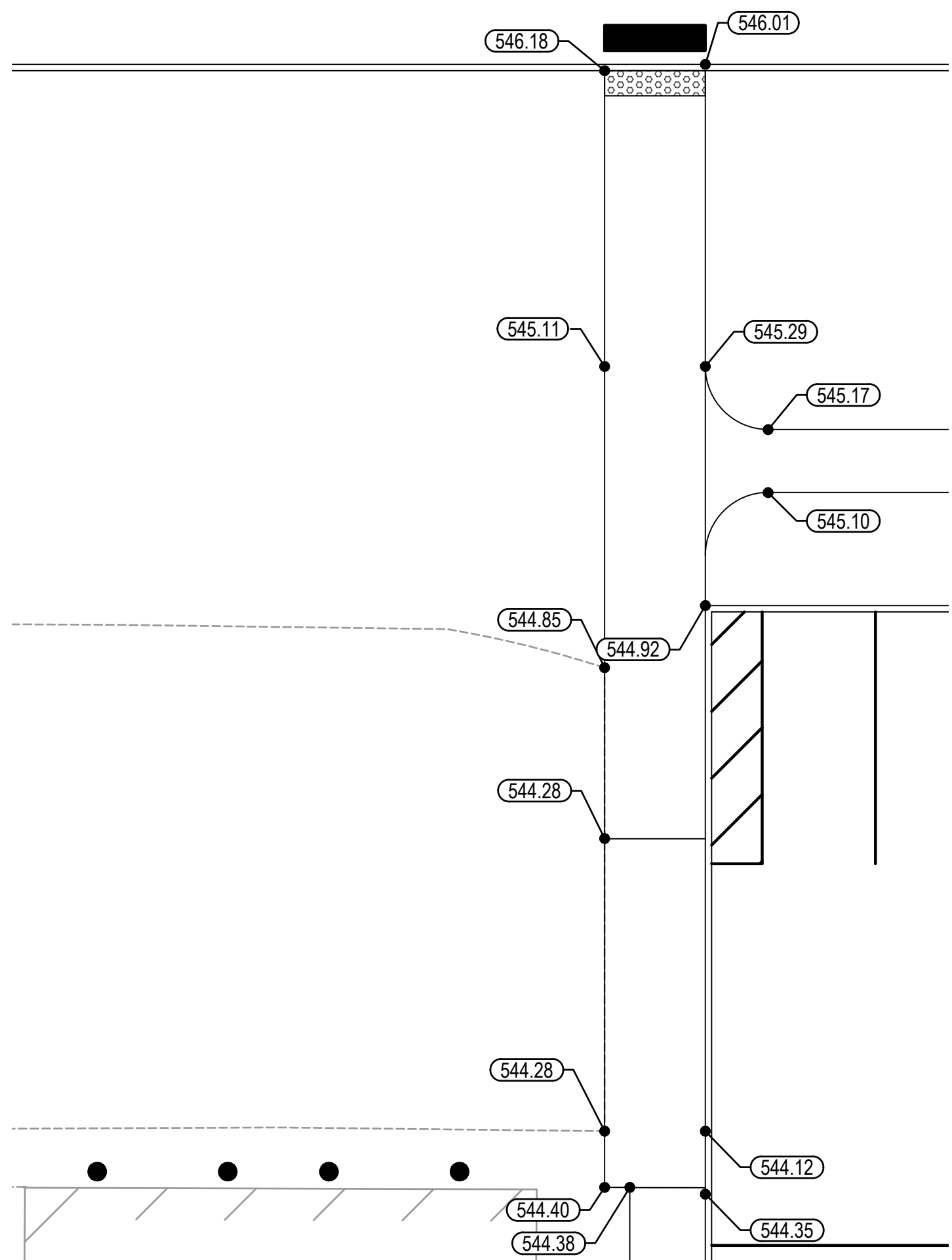


DETAILED GRADING #4

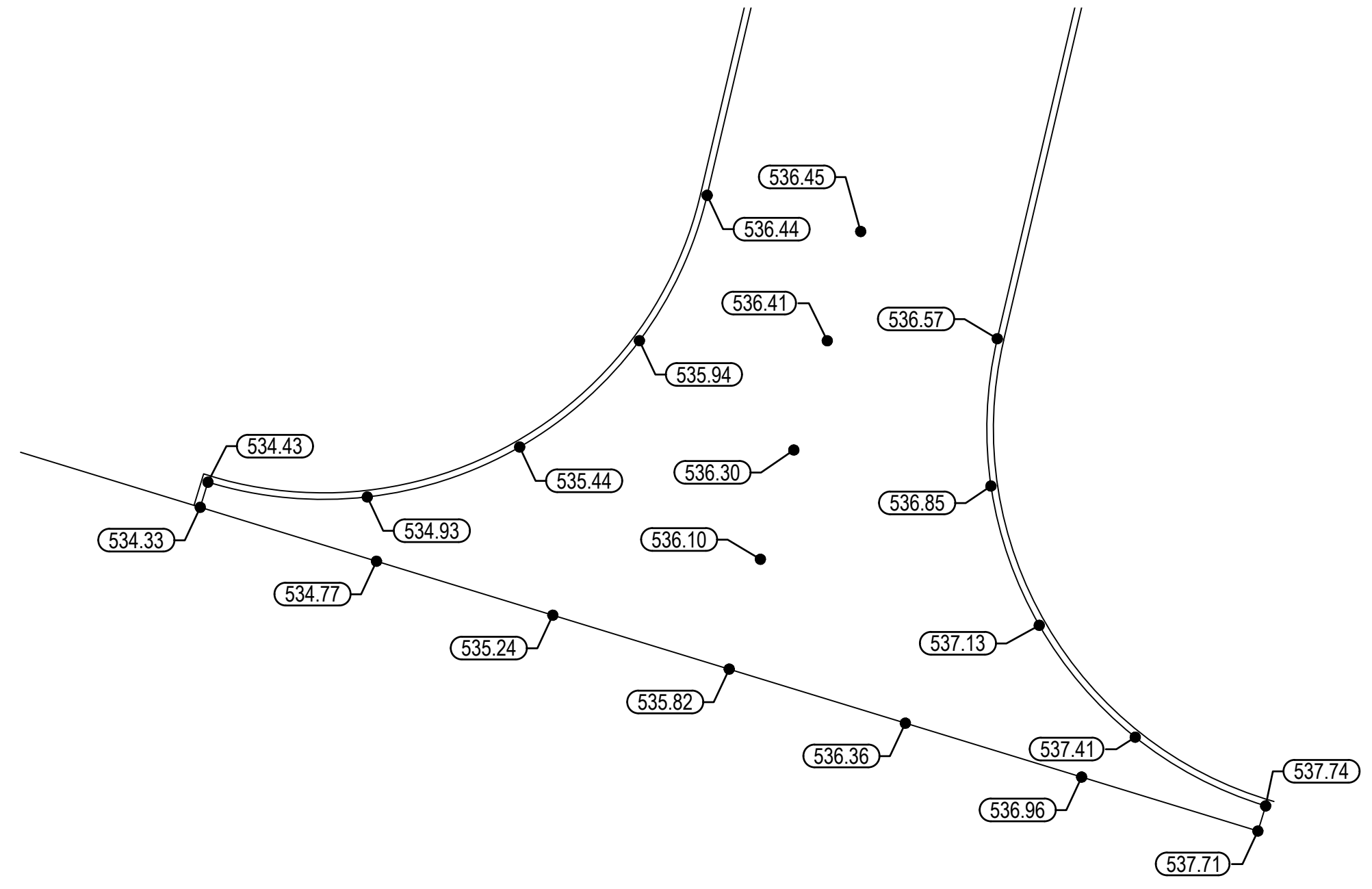
SCALE: 1" = 10'



DETAILED GRADING #6
SCALE: 1" = 10'



DETAILED GRADING #7
SCALE: 1" = 10'



DETAILED GRADING #8
SCALE: 1" = 10'

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



DATE: 05/03/2024
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PROJECT # T2150-01
SITE # 6322
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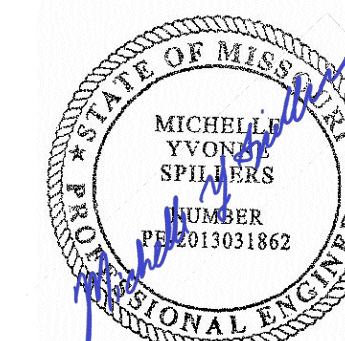
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SITE # 6322
FACILITY # 8136322001

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DATE: _____
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REVISION: _____
DATE: _____

ISSUE DATE: 05/03/2024

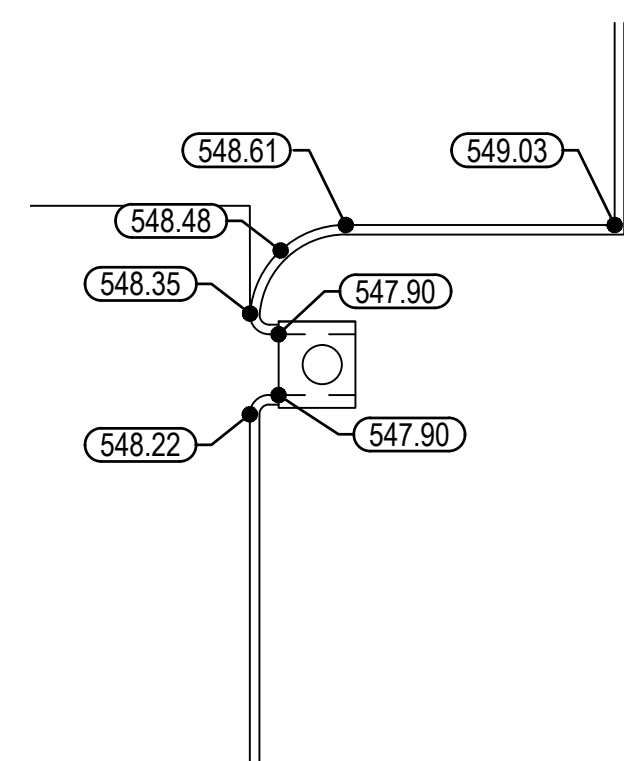
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CHECKED BY: MYS
DESIGNED BY: SW3

SHEET TITLE:
Grading Plan

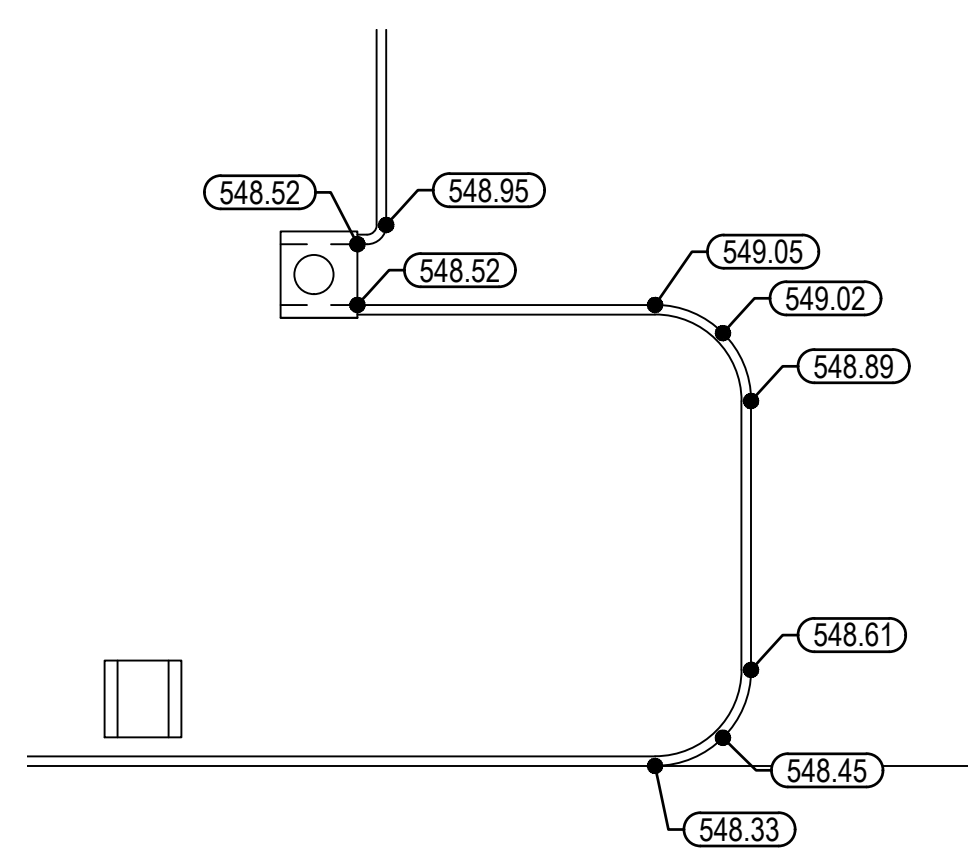
SHEET NUMBER:

C305

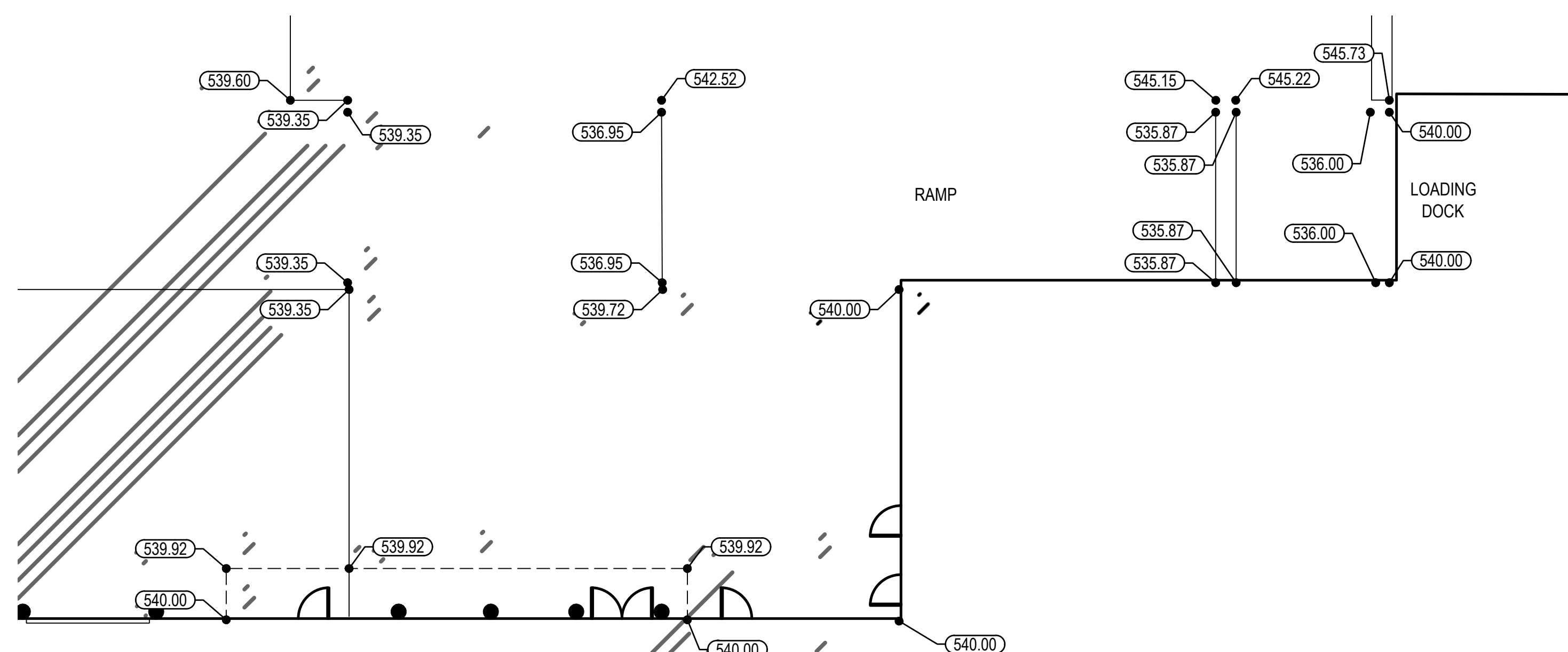
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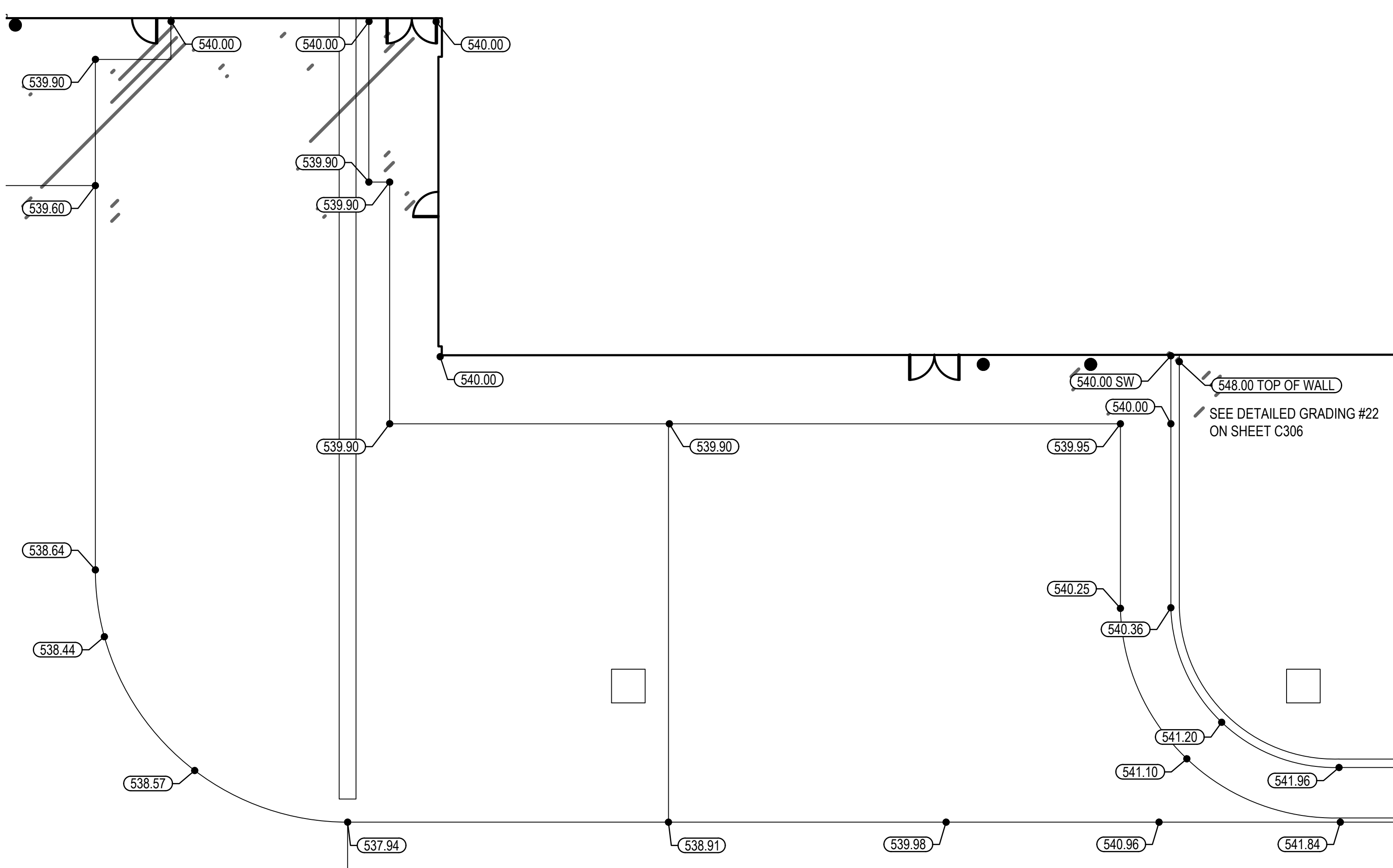
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SCALE: 1" = 10'



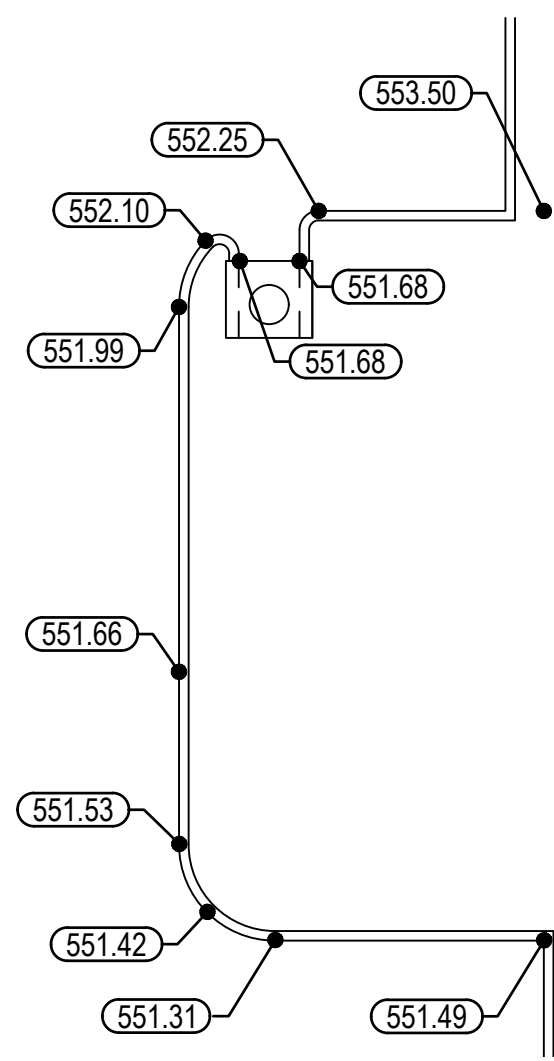
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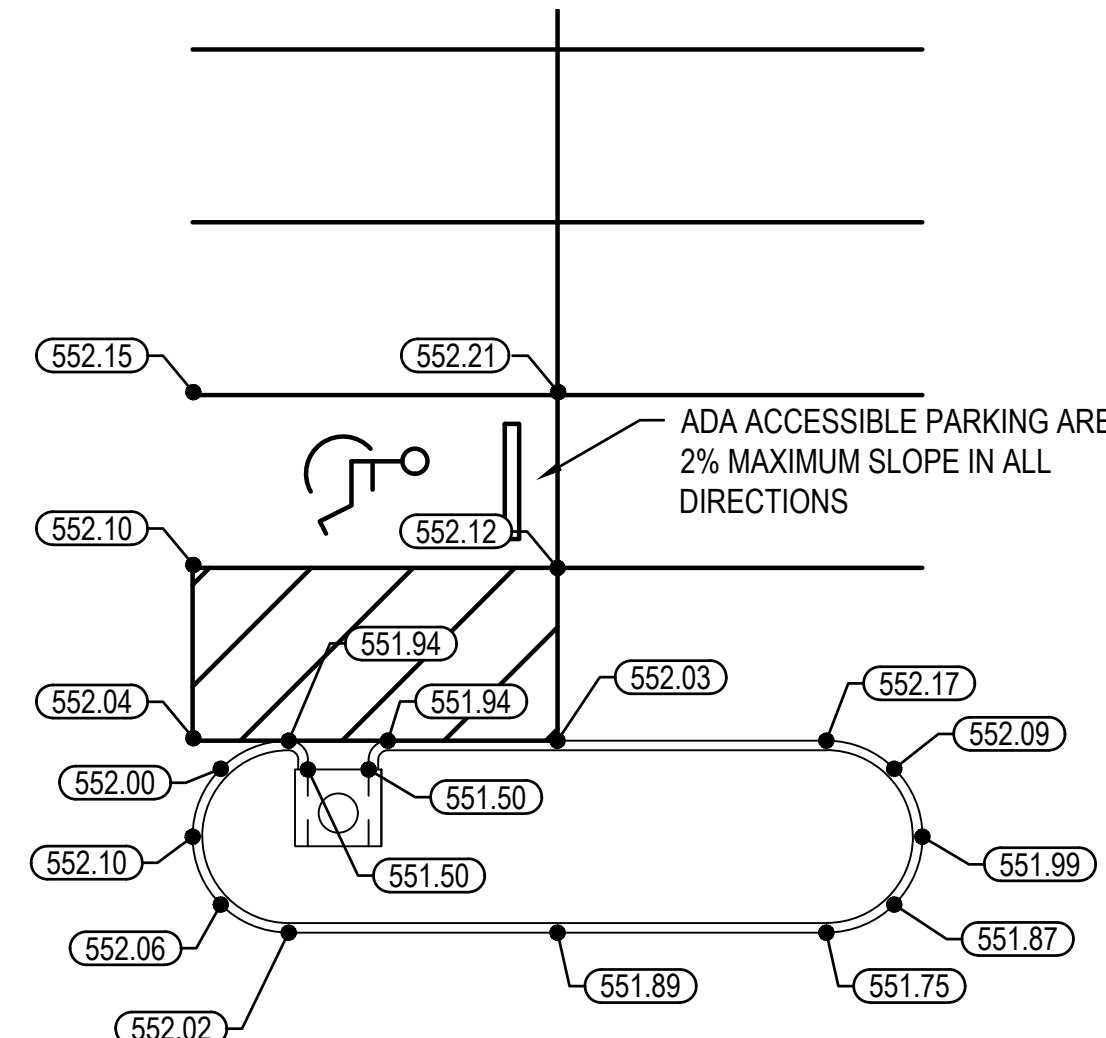
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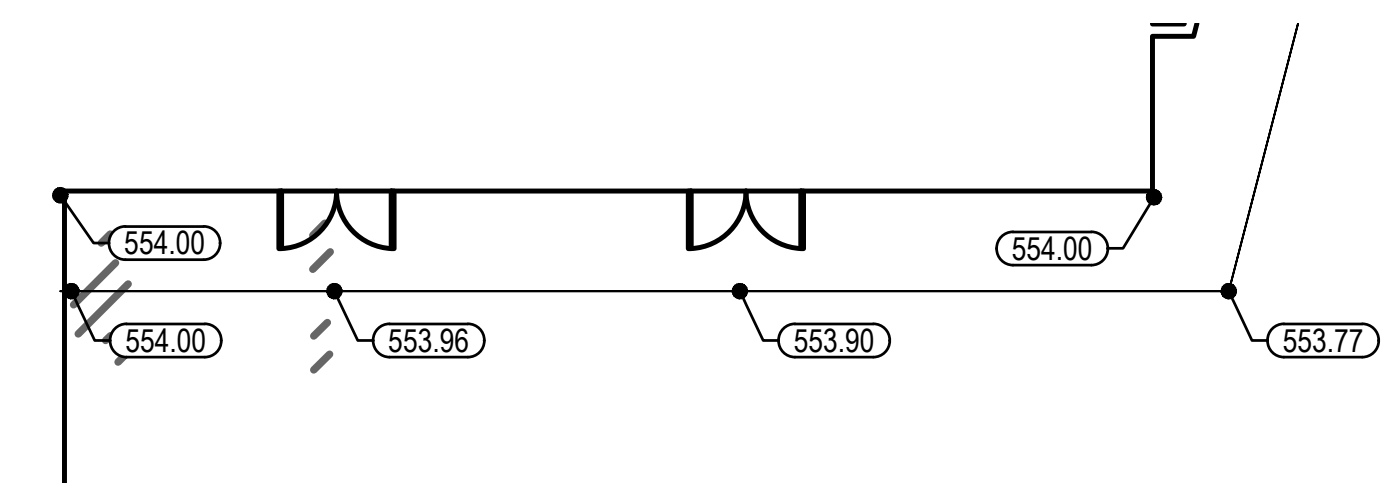
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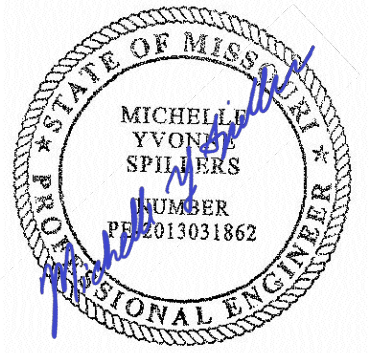
DETAILED GRADING #13
SCALE: 1" = 10'



DETAILED GRADING #14
SCALE: 1" = 10'



DETAILED GRADING #15
SCALE: 1" = 10'



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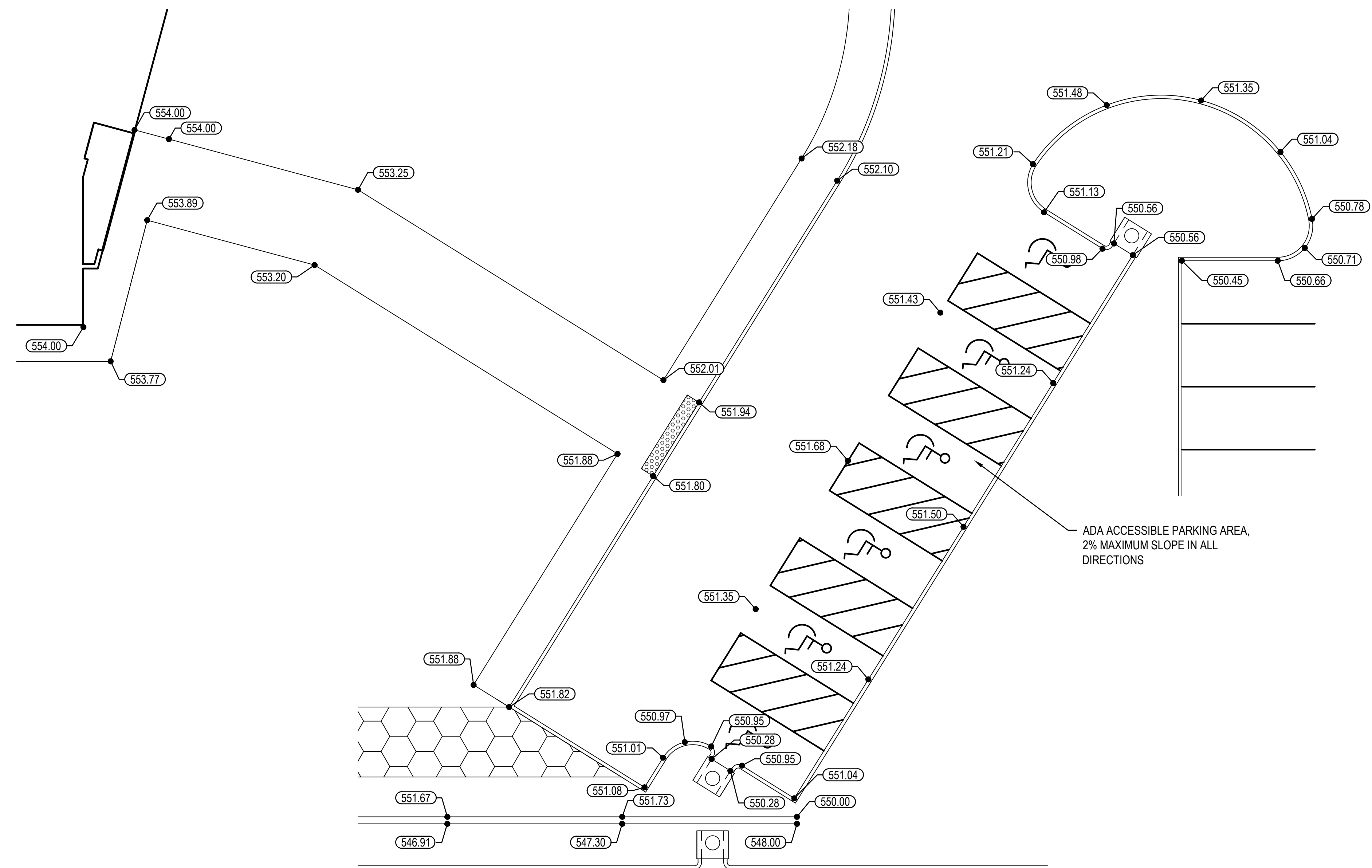
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Grading Plan

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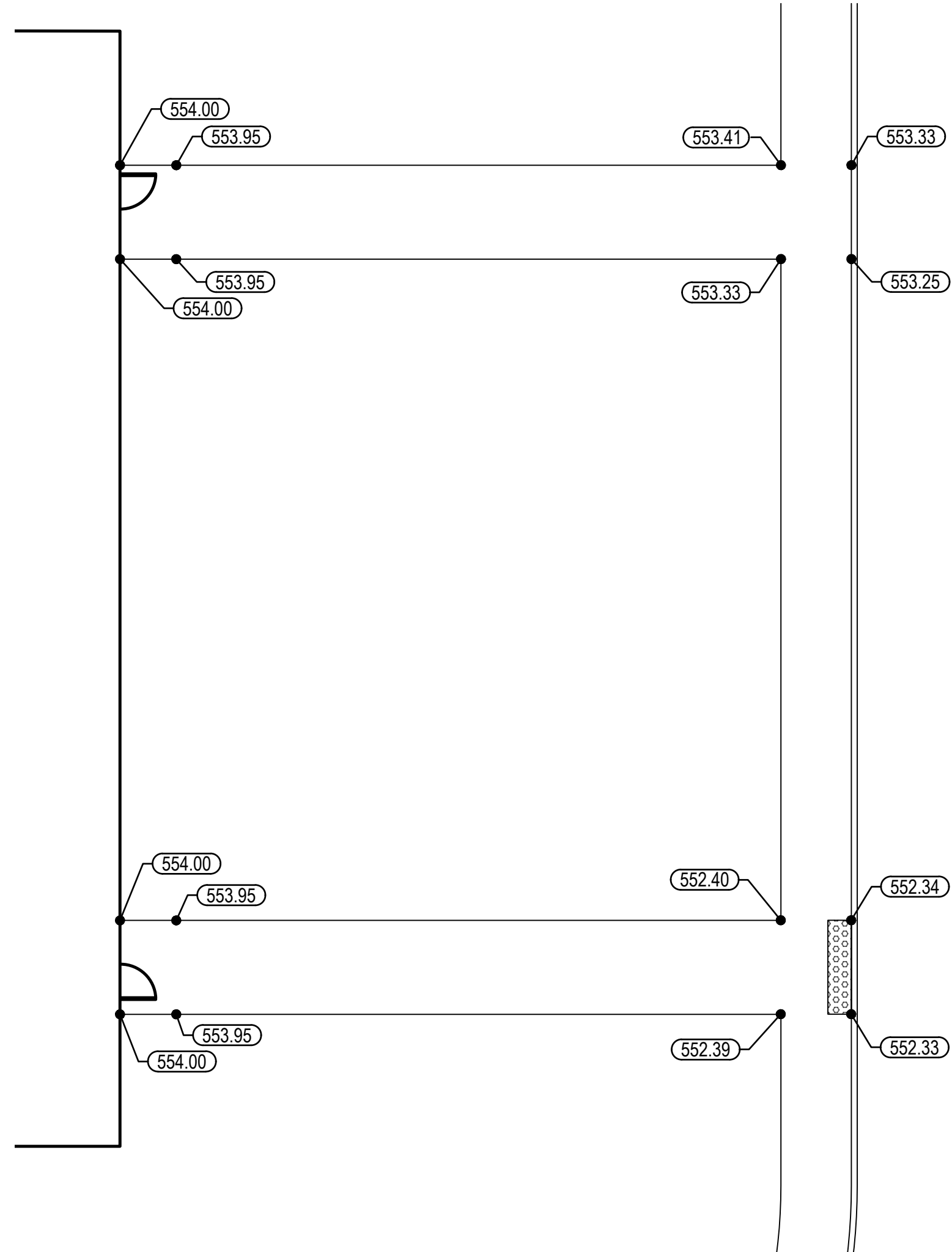
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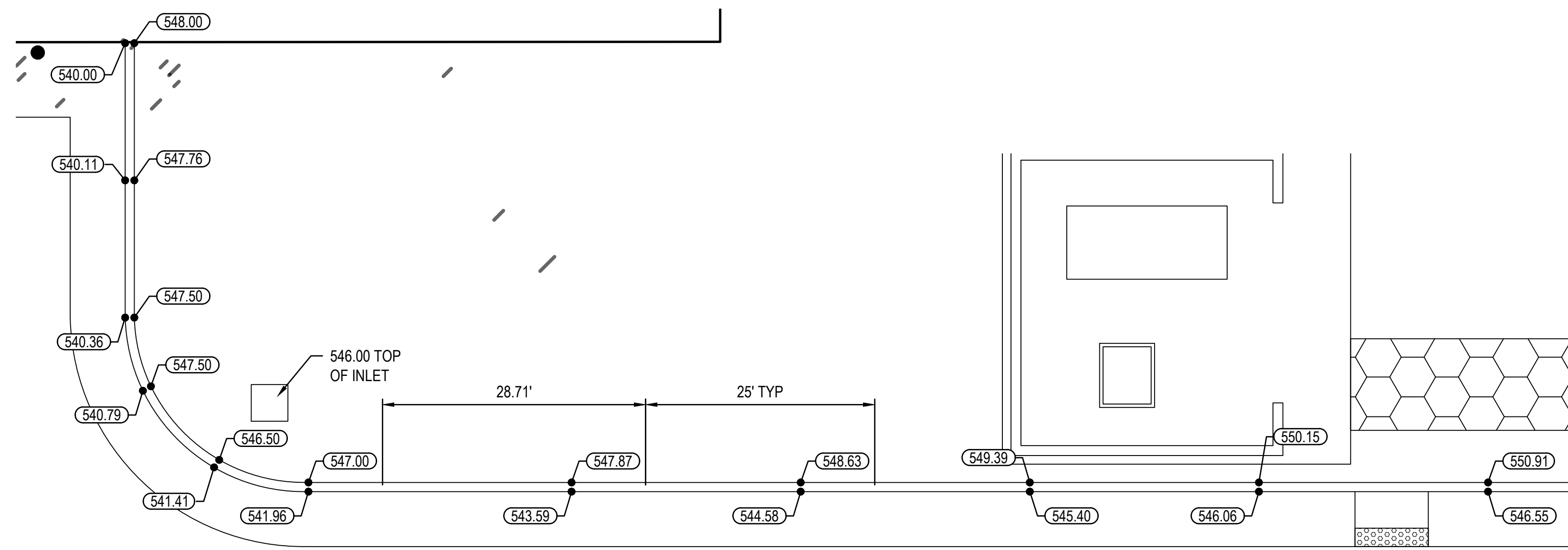
MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4



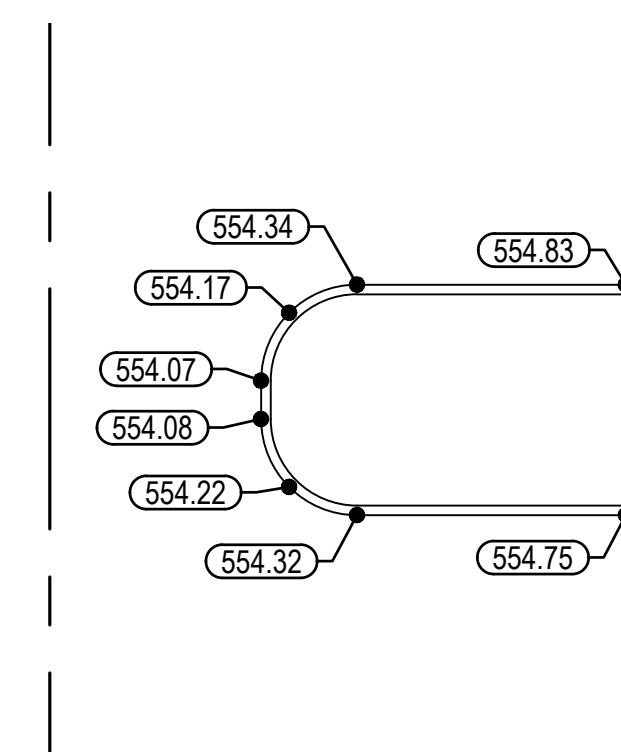
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SCALE: 1" = 10'



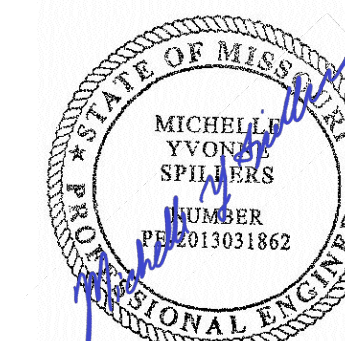
DETAILED GRADING #16
SCALE: 1" = 10'



DETAILED GRADING #18
SCALE: 1" = 10'



DETAILED GRADING #19
SCALE: 1" = 10'



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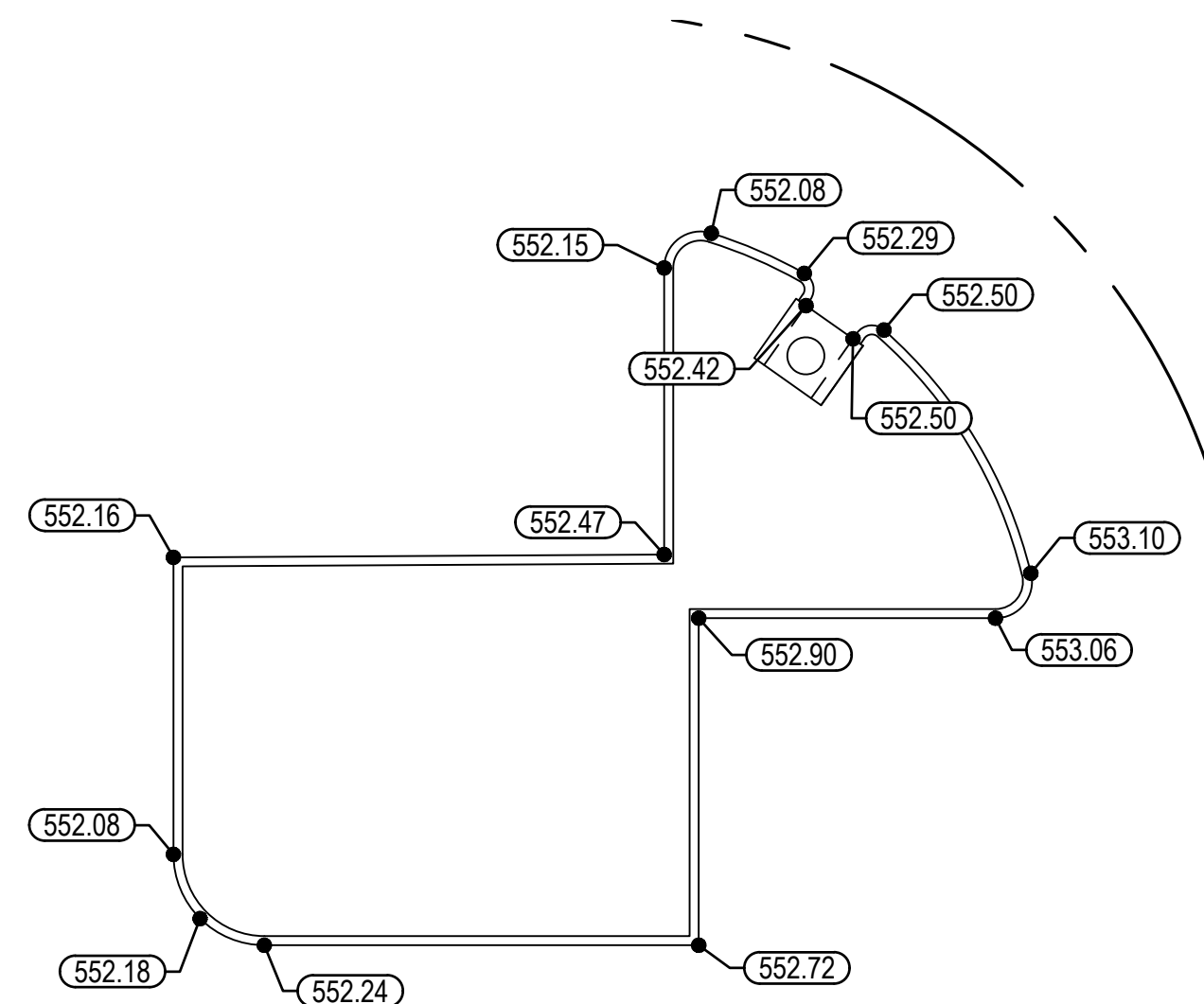
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SHEET TITLE:
Grading Plan

SHEET NUMBER:

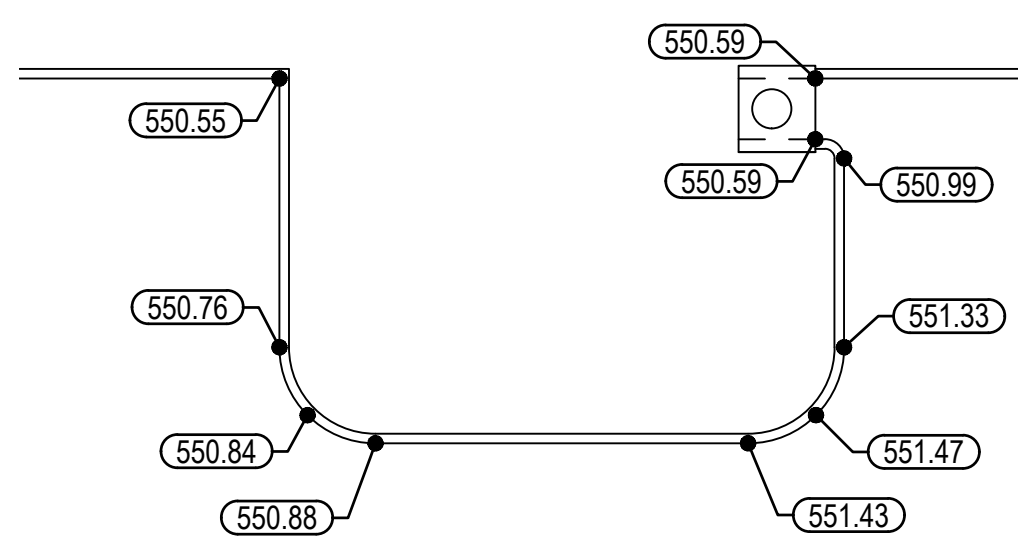
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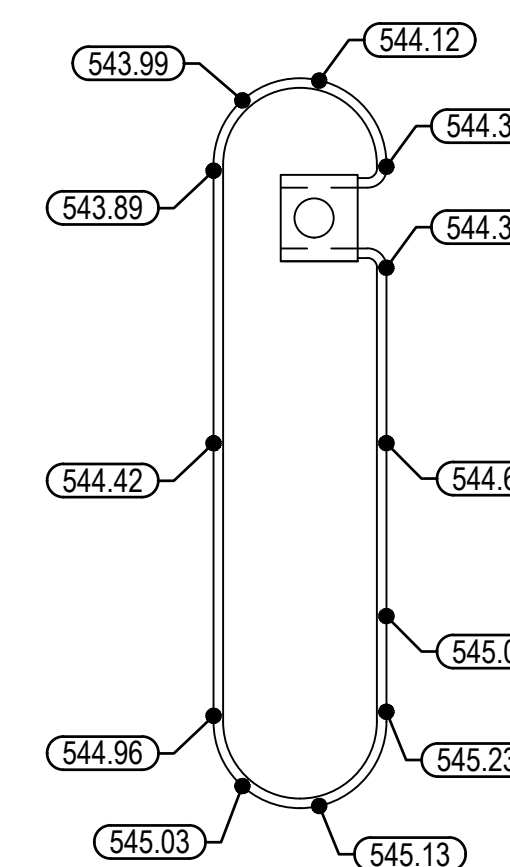
DETAILED GRADING #20

SCALE: 1" = 10'



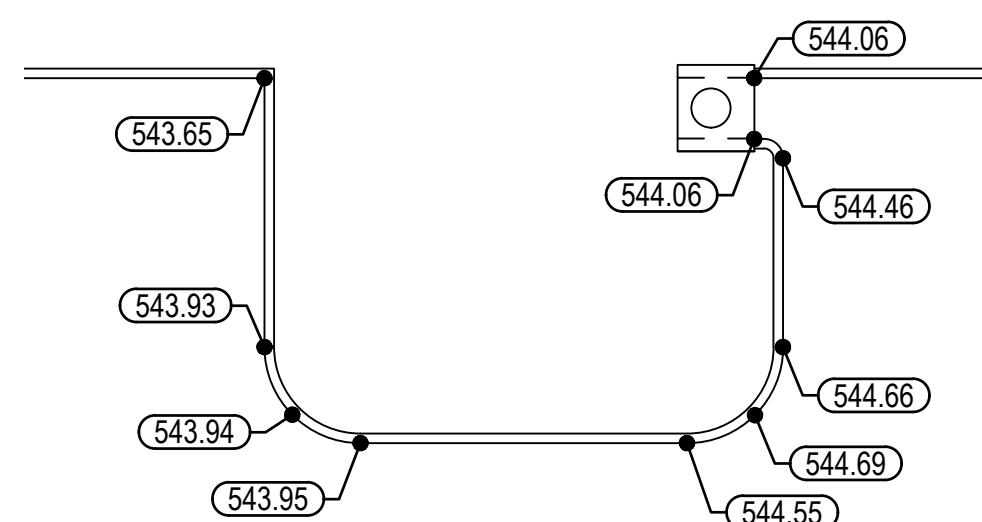
DETAILED GRADING #21

SCALE: 1" = 10'



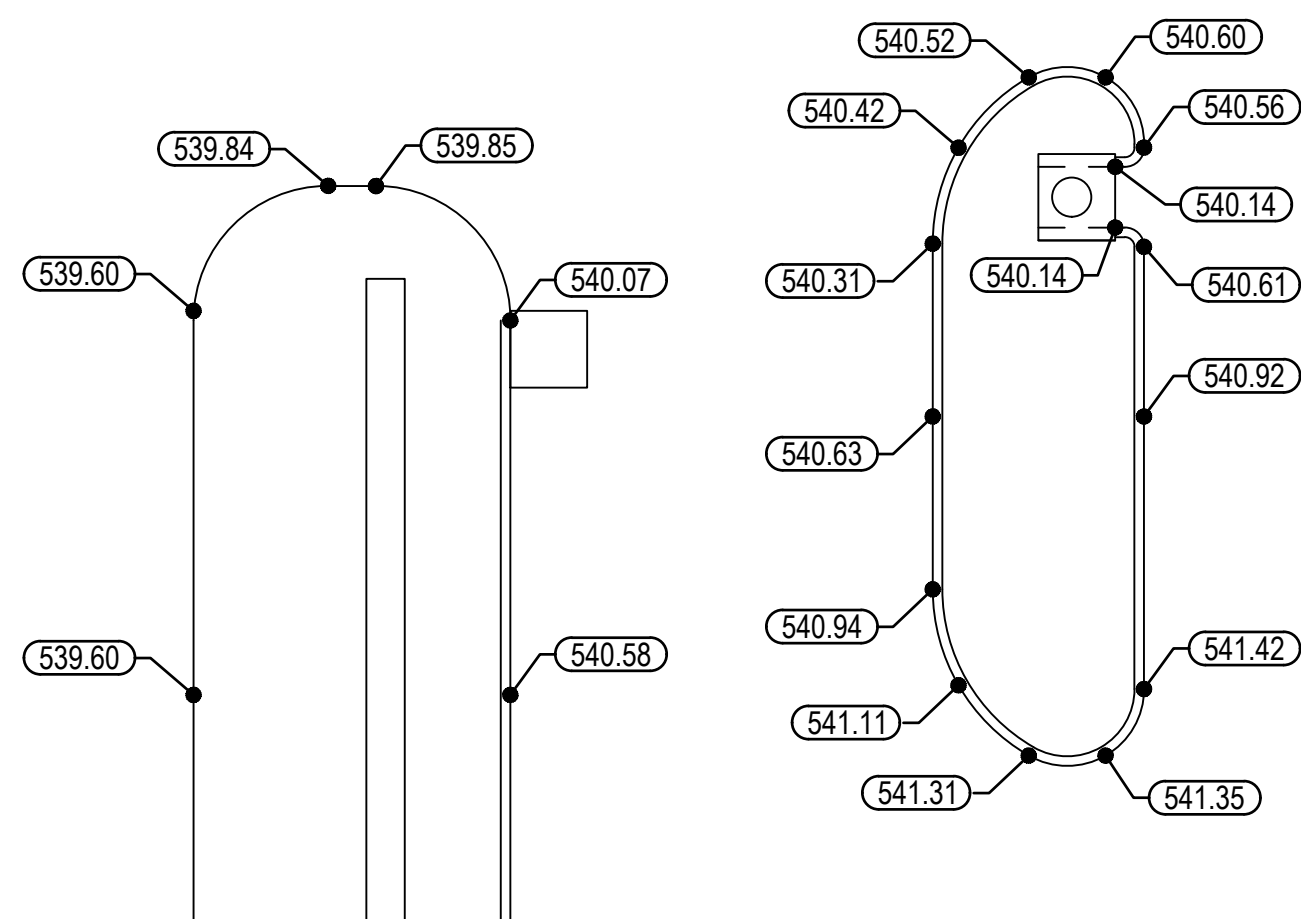
DETAILED GRADING #22

SCALE: 1" = 10'



DETAILED GRADING #23

SCALE: 1" = 10'



DETAILED GRADING #24

SCALE: 1" = 10'



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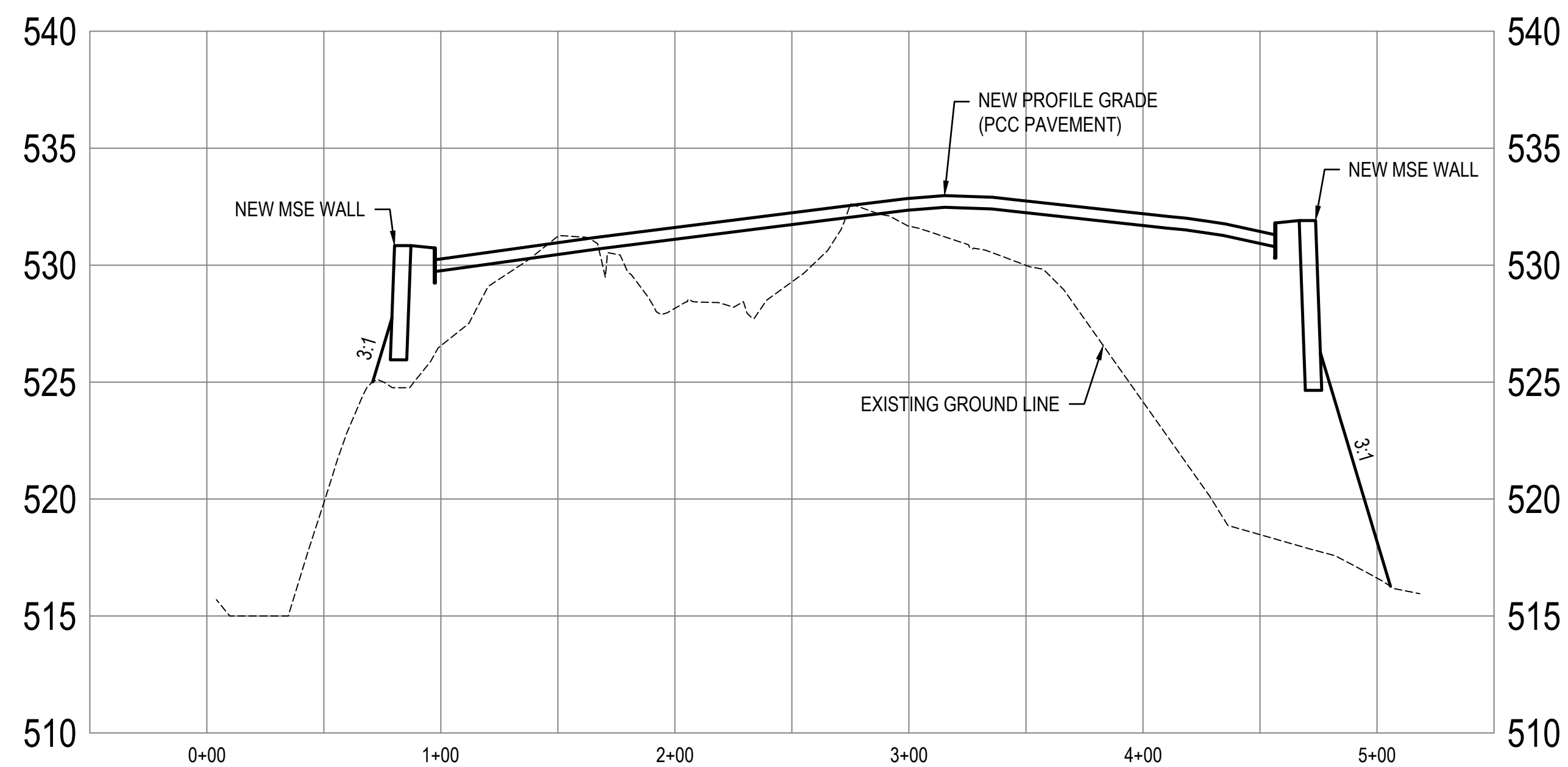
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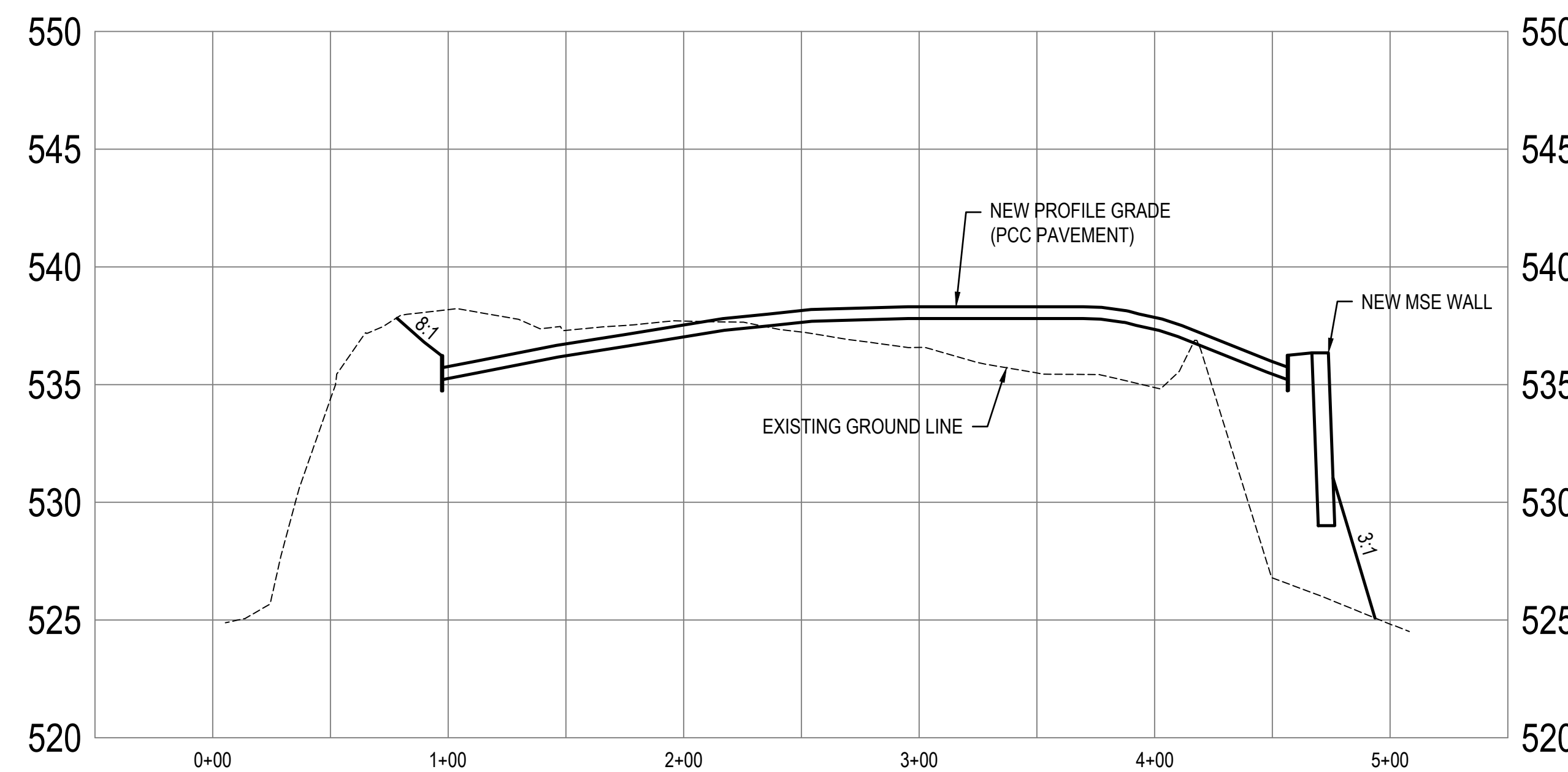
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C308

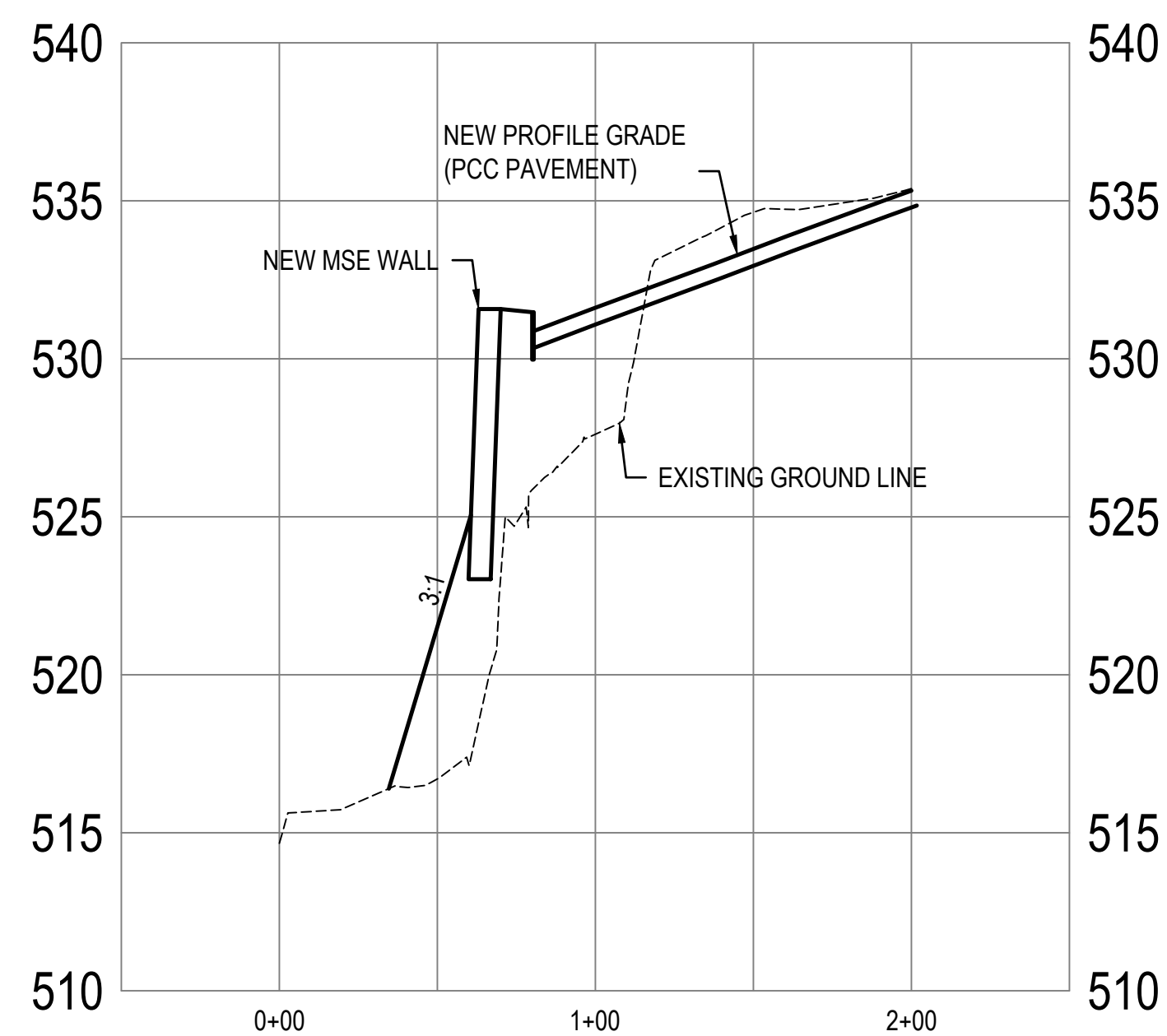
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05/03/2024



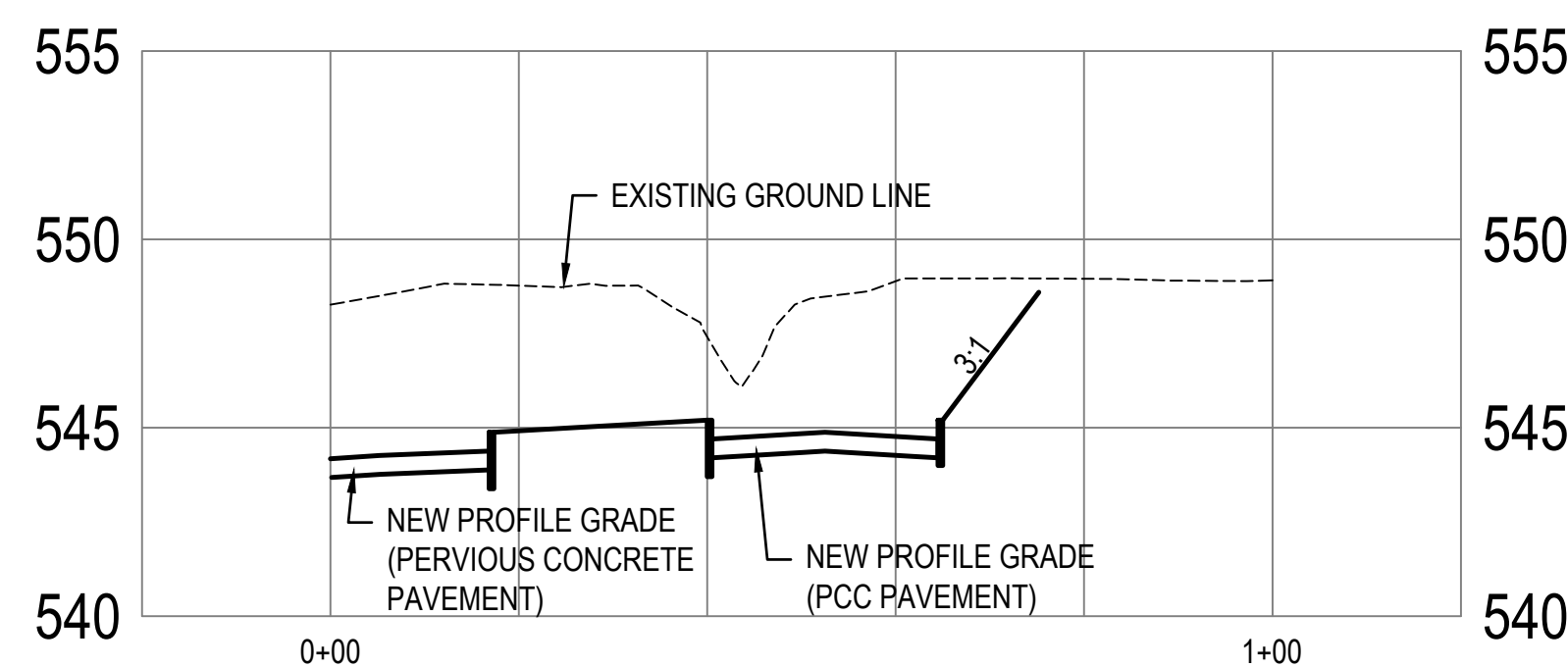
1 - SEE SHEET C301
WALL SECTION 01
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



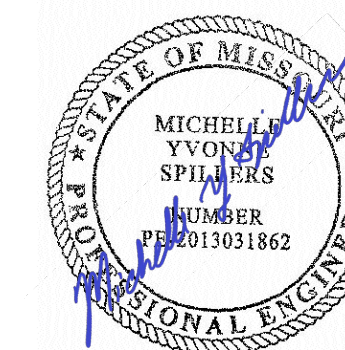
2 - SEE SHEET C301
WALL SECTION 02
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



3 - SEE SHEET C301
WALL SECTION 03
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



4 - SEE SHEET C301
DRIVE SECTION 04
SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL



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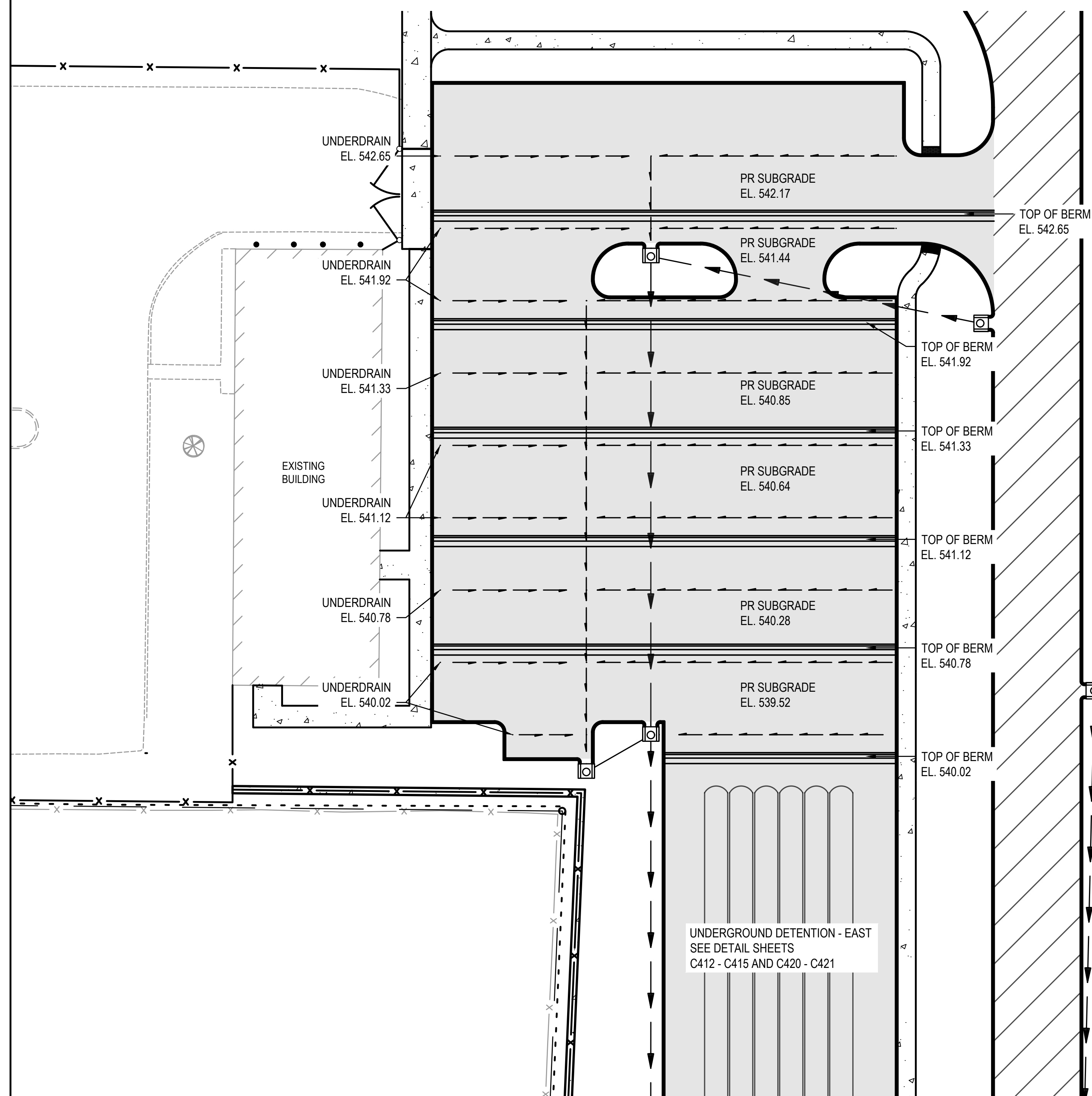
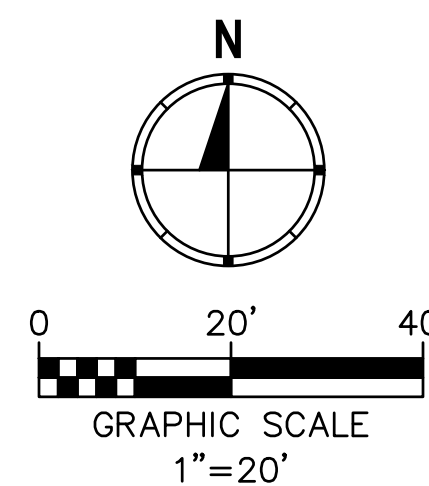
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DESIGNED BY: MYS

SHEET TITLE:
**Pervious Pavement
Grading Details**

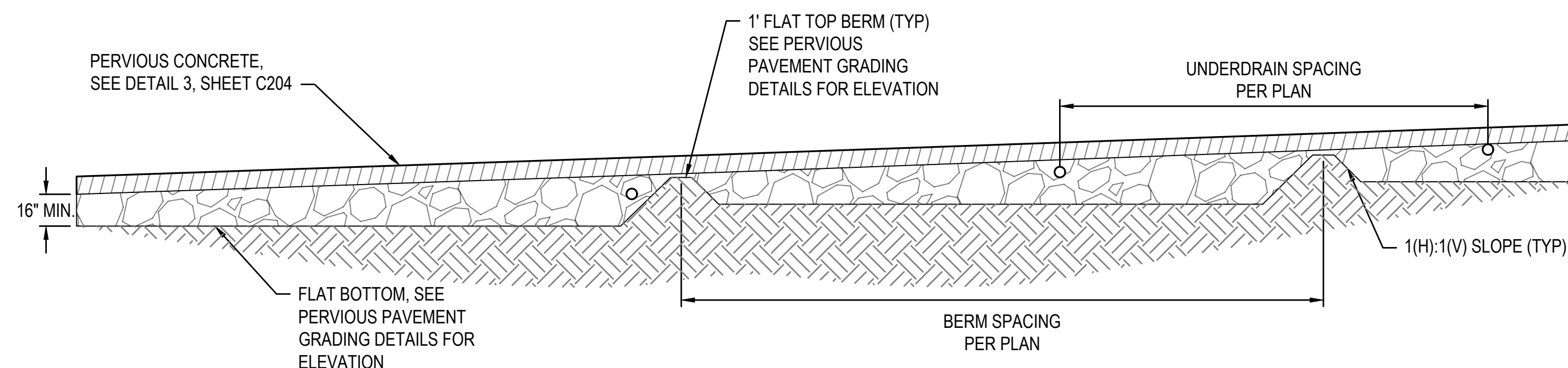
SHEET NUMBER:

C309

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1 **PERVIOUS CONCRETE PAVEMENT AREA 2**
SCALE: 1" = 20'



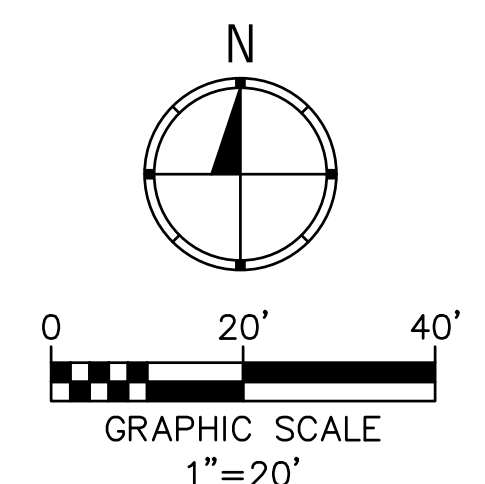
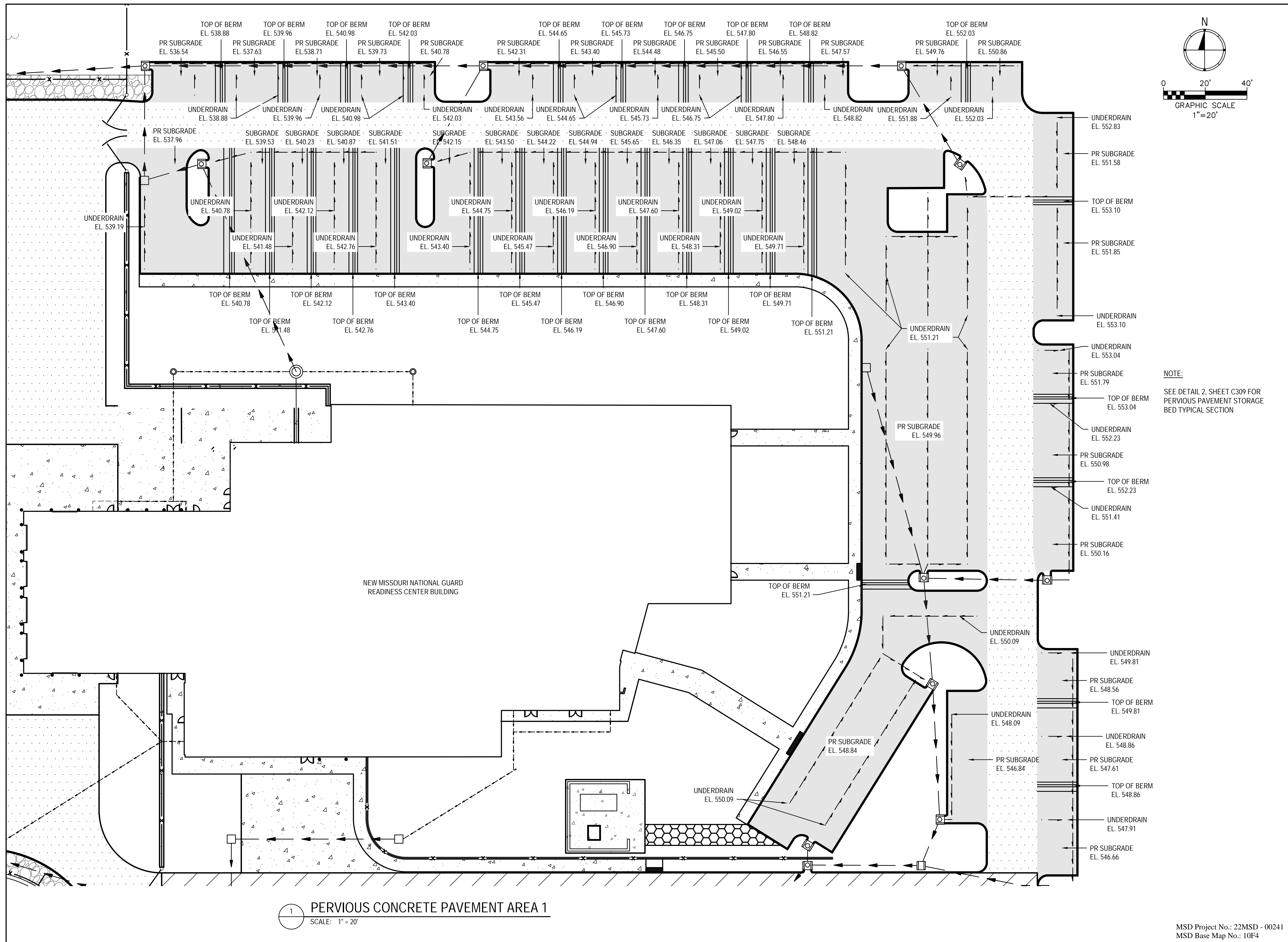
2 **PERVIOUS CONCRETE STORAGE BED TYPICAL SECTION**
SCALE: NO SCALE

NOTES:

SEE PERVIOUS CONCRETE PAVEMENT DETAILS ON SHEETS C309 AND C310 FOR ELEVATIONS OF SUBGRADE, TOPS OR BERMS, AND UNDERDRAIN FLOW LINES.

SUBGRADE BETWEEN BERMS SHALL HAVE A CONSTANT ELEVATION. THE MINIMUM DEPTH OF DRAINAGE ROCK SHALL BE 16".

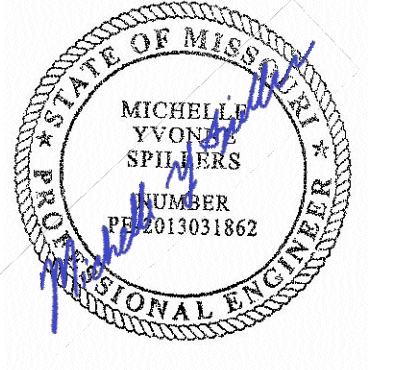
EACH UNDERGROUND BERM SHALL HAVE 1(H):1(V) SLOPES AND A 1' WIDE BERM SET AT THE SAME ELEVATION AS THE FLOW LINE OF THE UPSTREAM UNDERDRAINS TO ALL FOR THE REQUIRED INFILTRATION VOLUME. UNDERDRAINS ARE SET AT 6" ABOVE SUBGRADE IN AREA 2 AND 15" ABOVE SUBGRADE IN AREA 1.



1 PERVIOUS CONCRETE PAVEMENT AREA 1
SCALE: 1" = 20'

NOTE:
SEE DETAIL 2, SHEET C309 FOR PERVIOUS PAVEMENT STORAGE BED TYPICAL SECTION

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



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DRAWN BY: SW3
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SHEET TITLE:
Pervious Pavement
Grading Details

SHEET NUMBER:

C310



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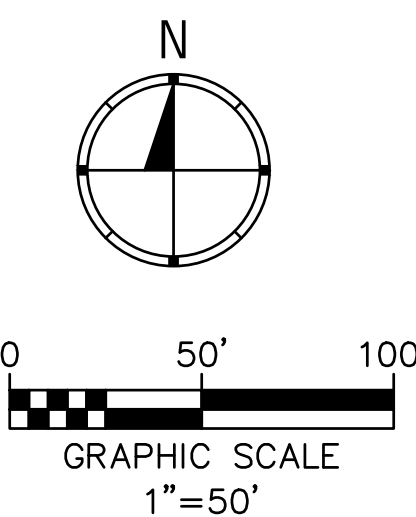
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SHEET TITLE:
Drainage Plan

SHEET NUMBER:

C401

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05/03/2024

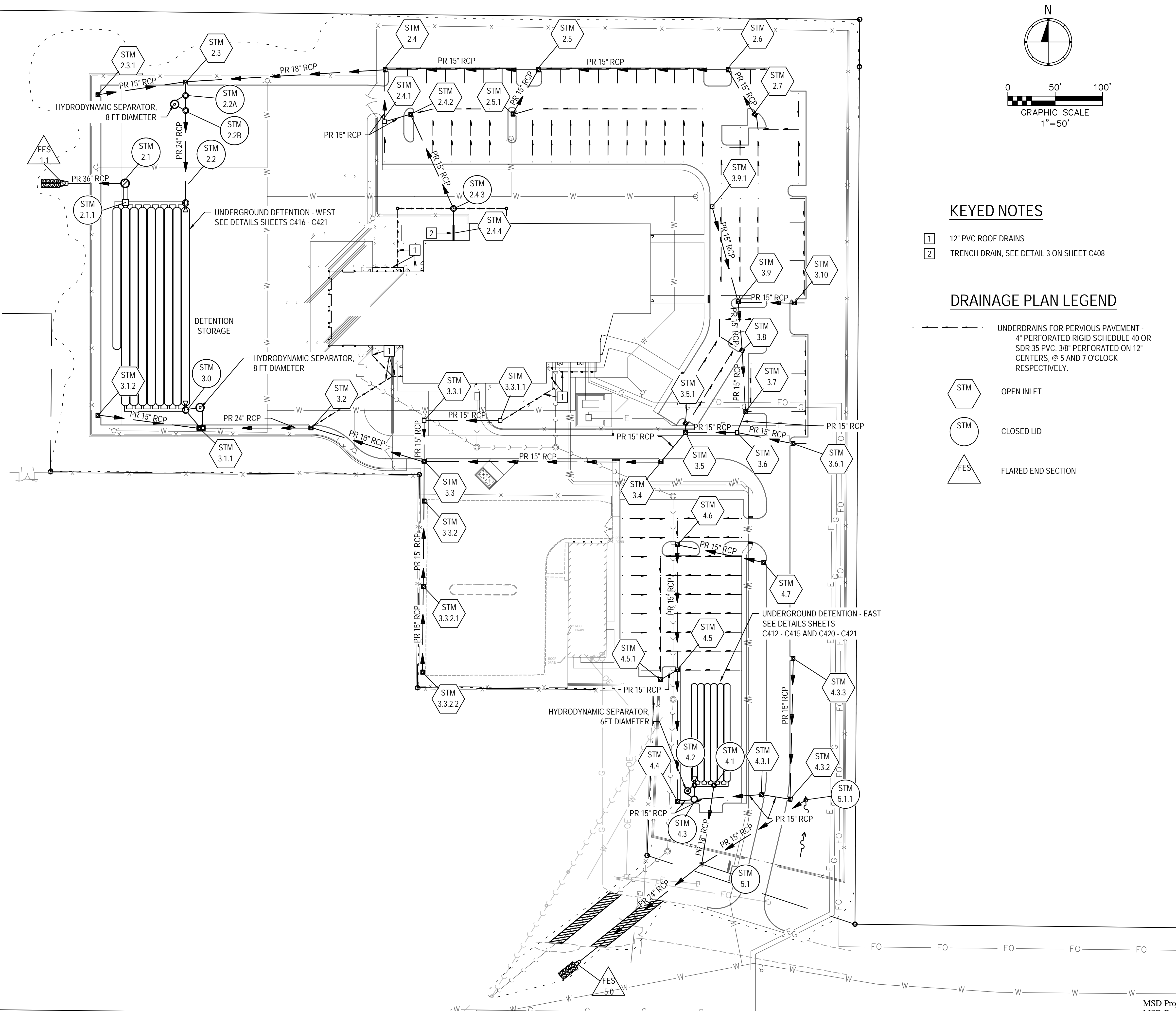


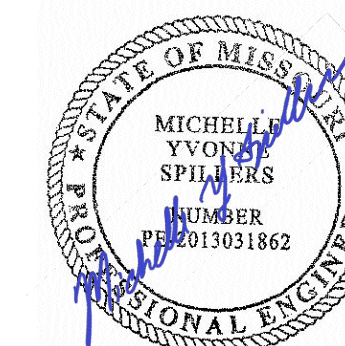
KEYED NOTES

- 1 12" PVC ROOF DRAINS
- 2 TRENCH DRAIN, SEE DETAIL 3 ON SHEET C408

DRAINAGE PLAN LEGEND

- UNDERDRAINS FOR PERVIOUS PAVEMENT - 4" PERFORATED RIGID SCHEDULE 40 OR SDR 35 PVC. 3/8" PERFORATED ON 12" CENTERS, @ 5 AND 7 O'CLOCK RESPECTIVELY.
- STM OPEN INLET
- STM CLOSED LID
- FES FLARED END SECTION





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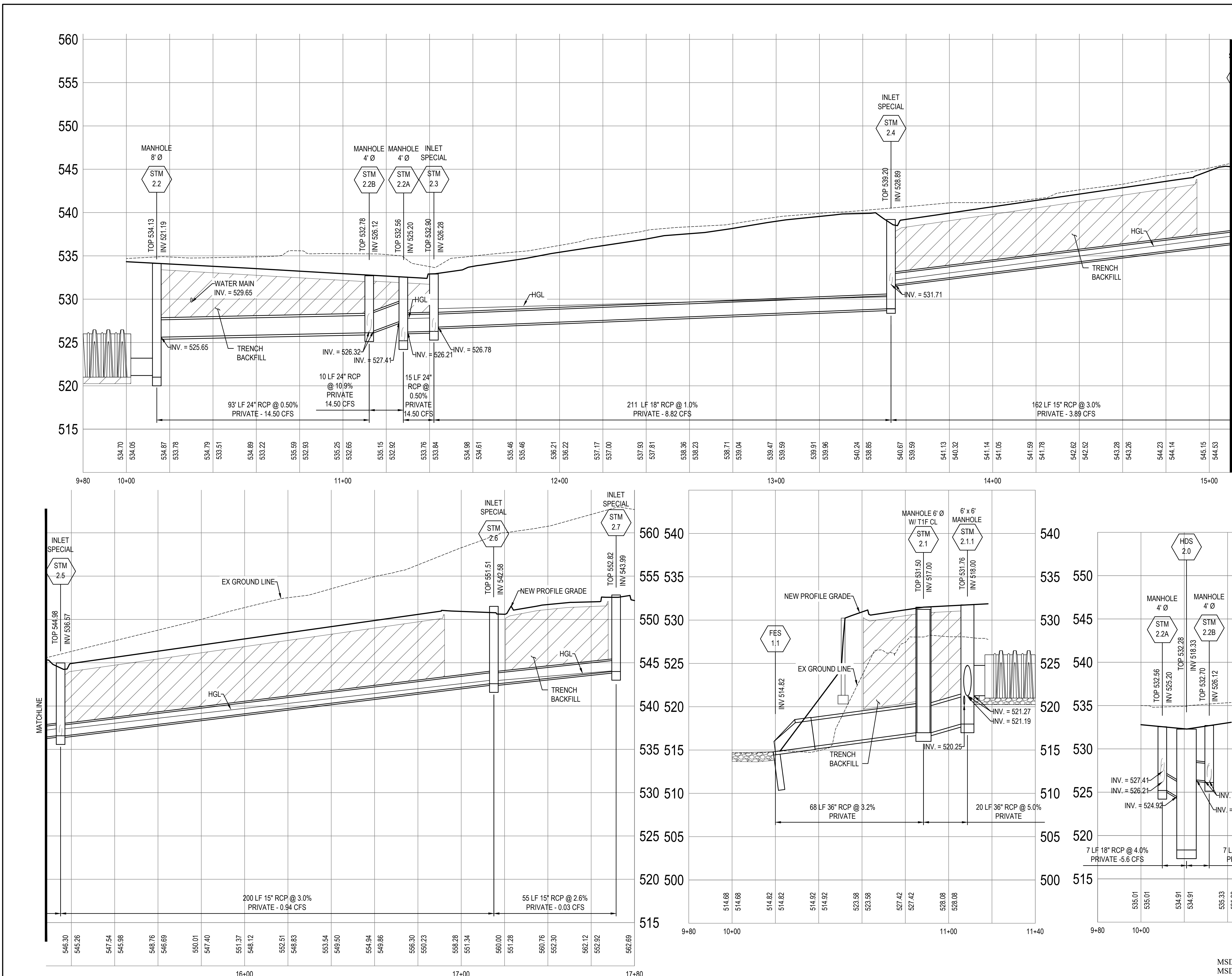
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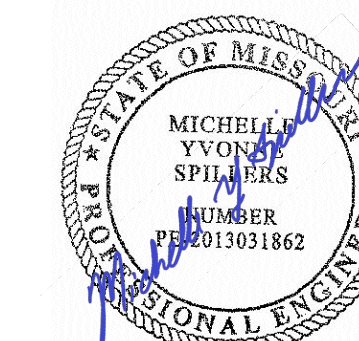
SHEET NUMBER:

C402

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4

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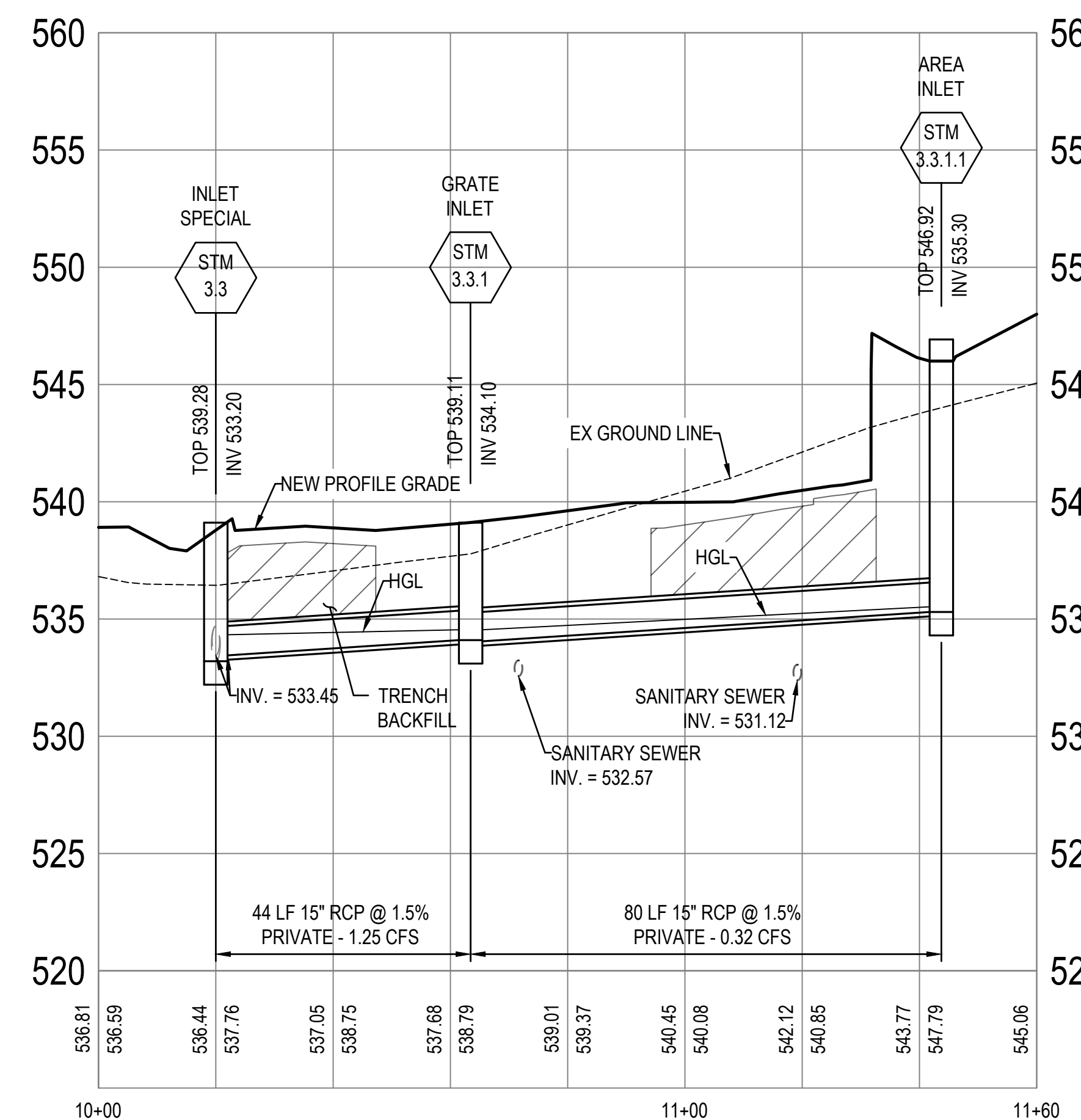
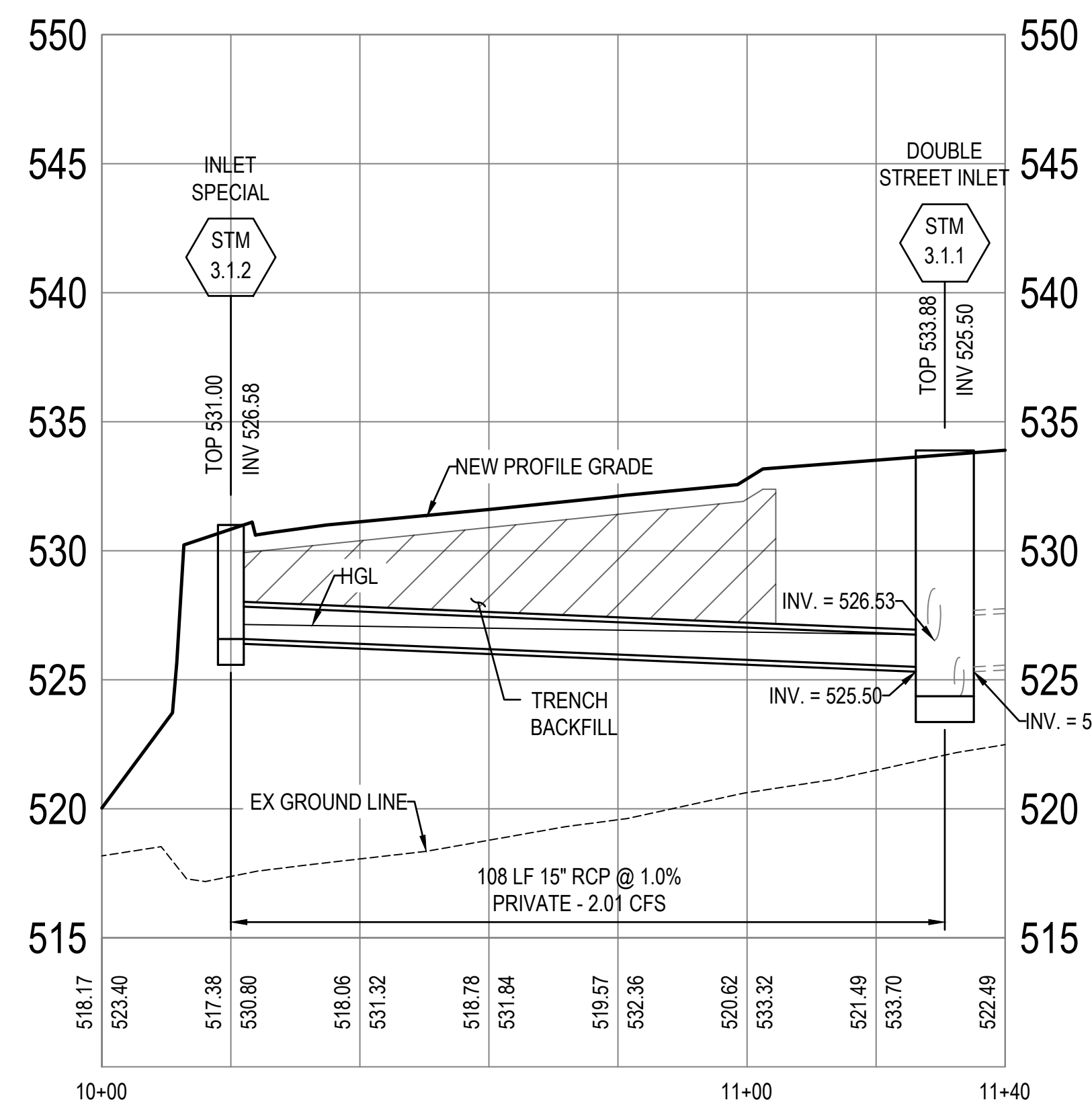
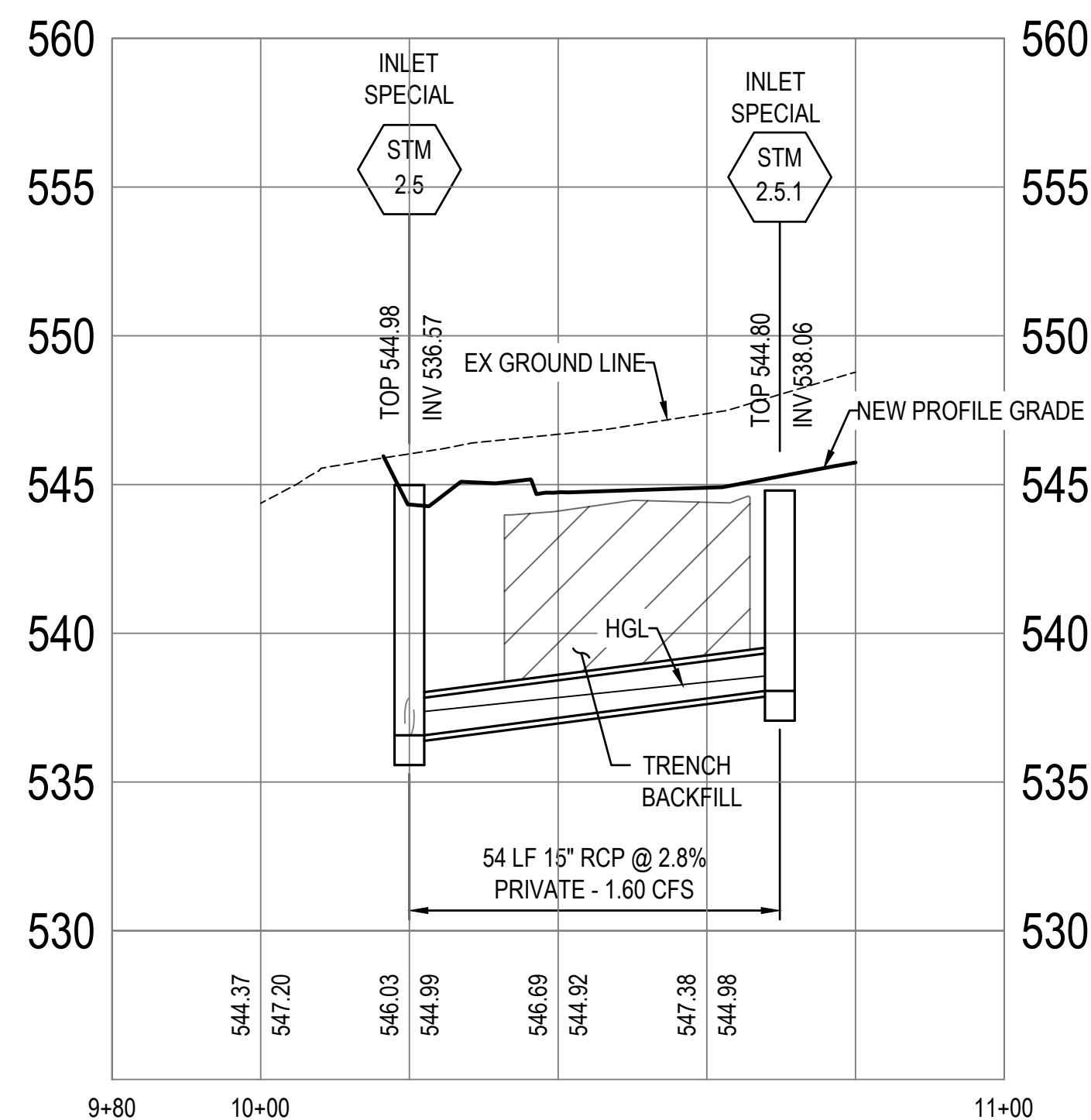
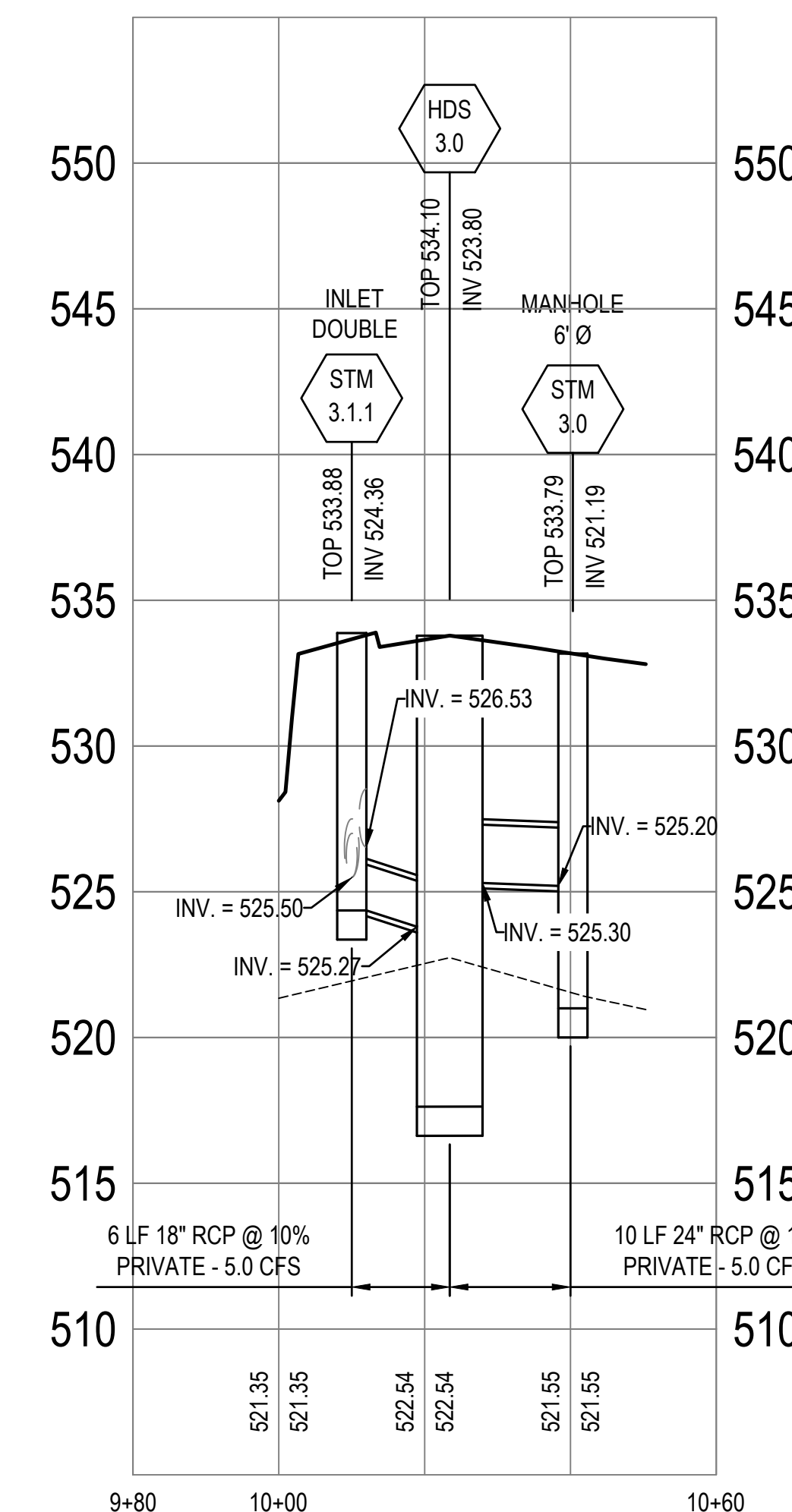
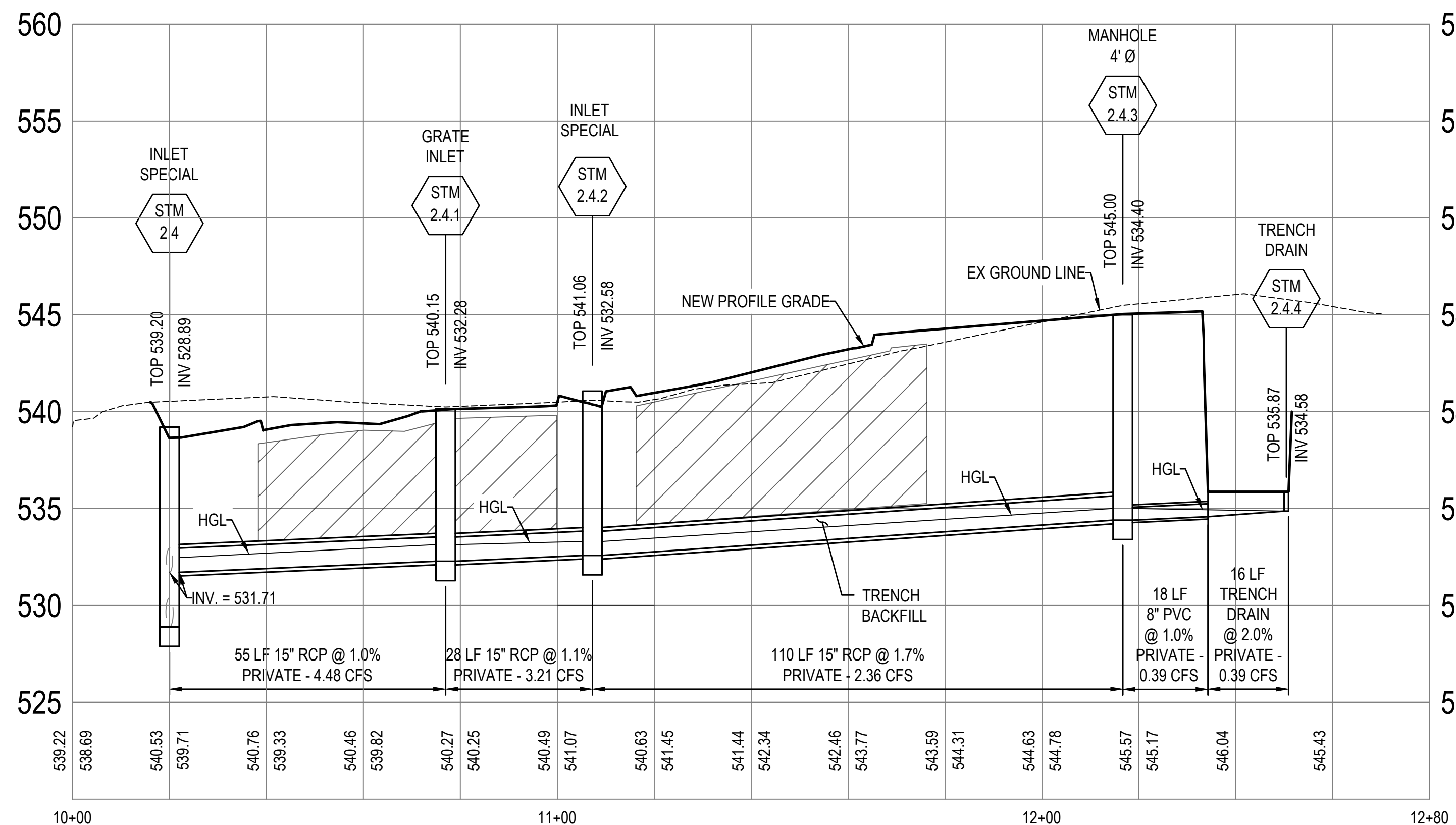
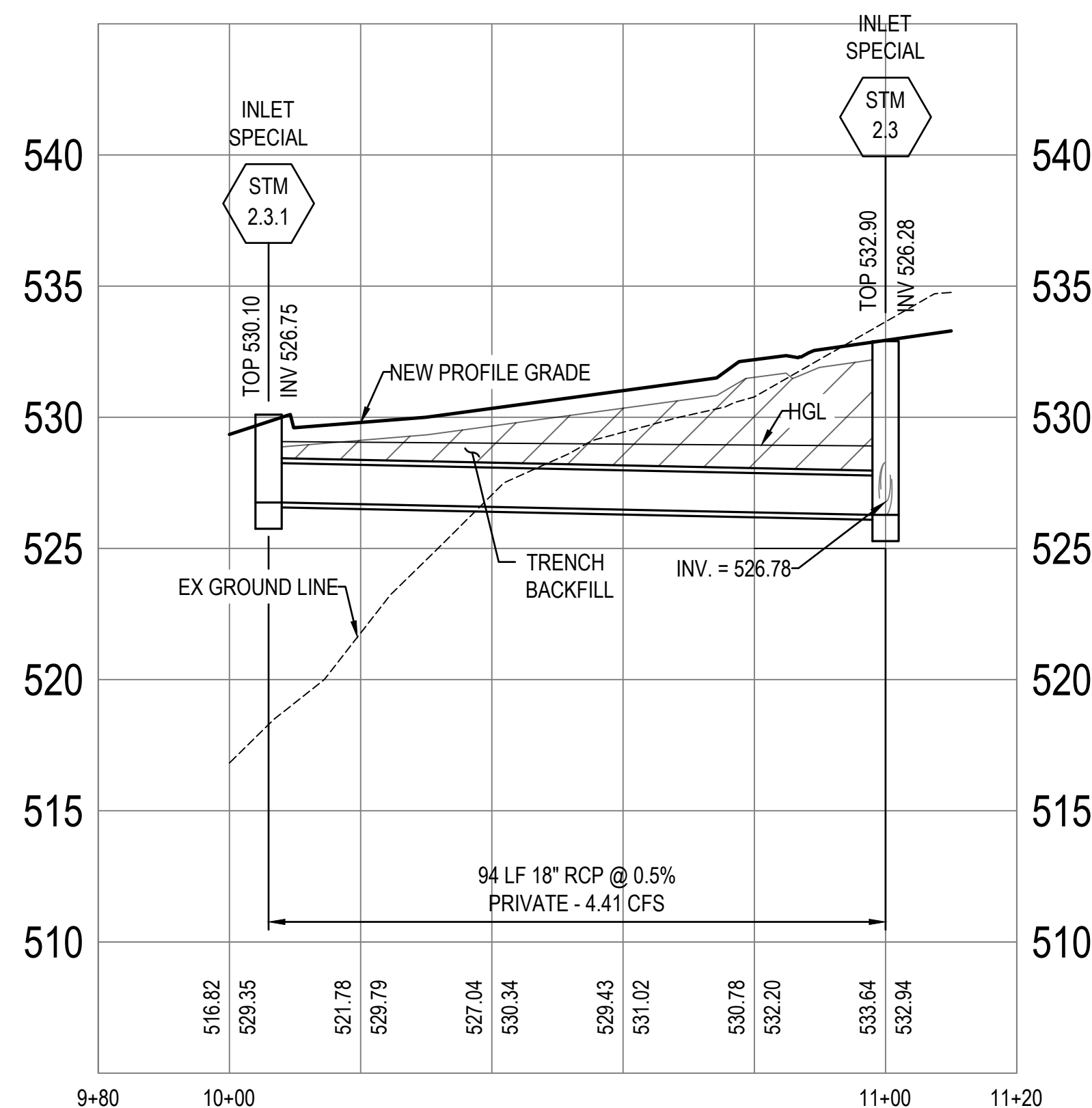
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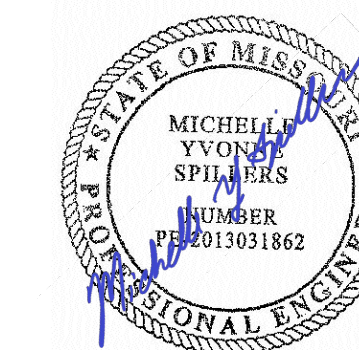
SHEET NUMBER:

C403

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4

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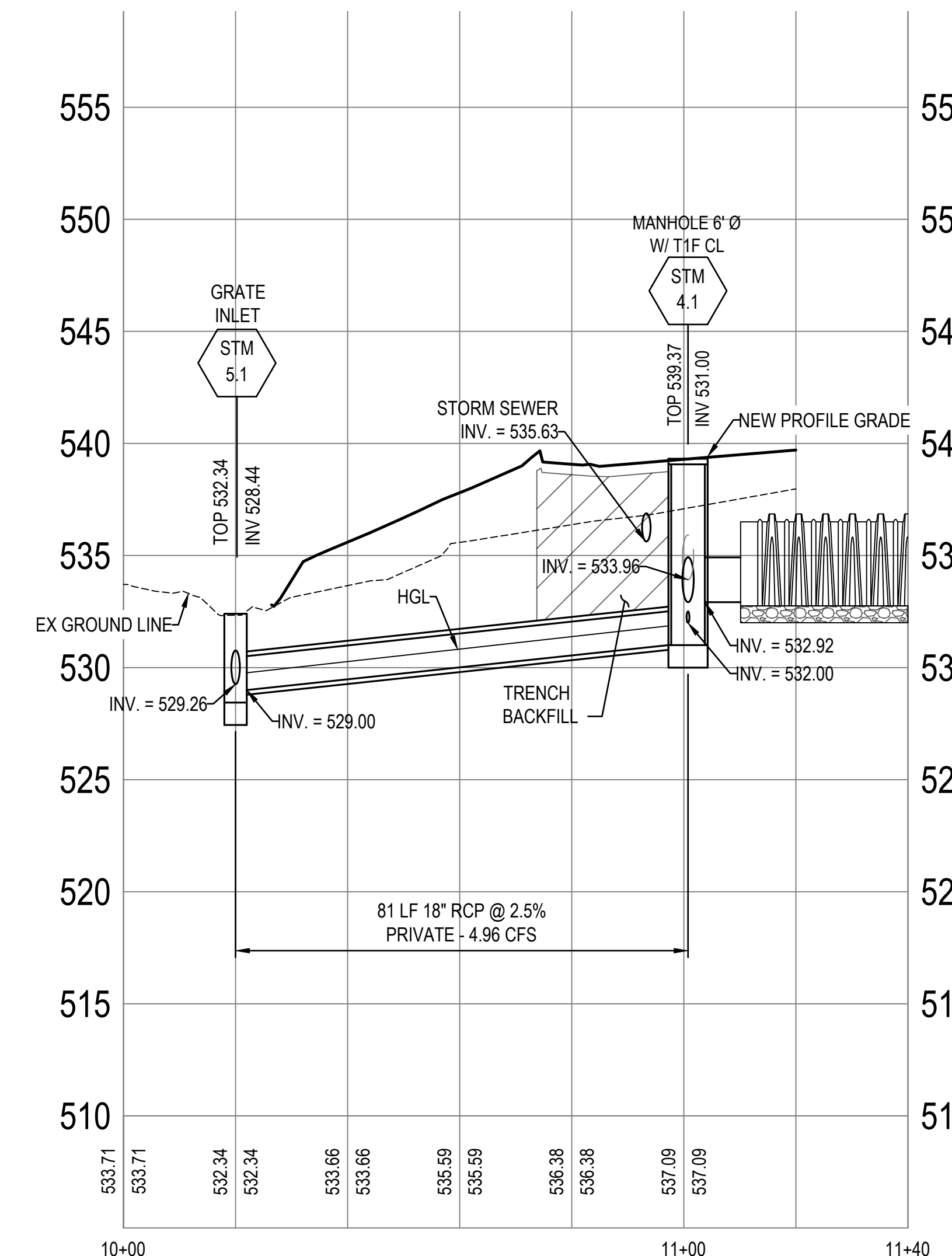
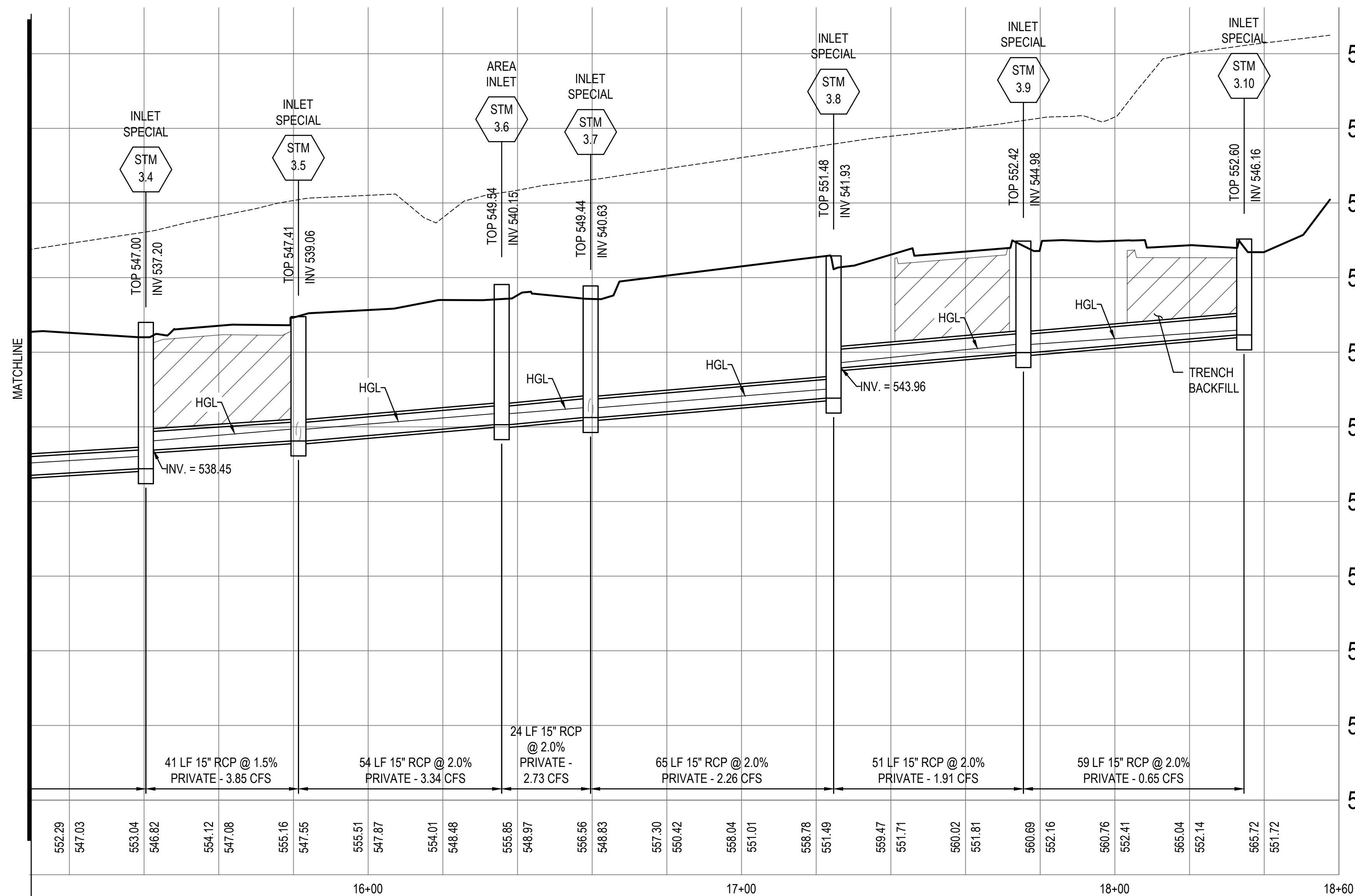
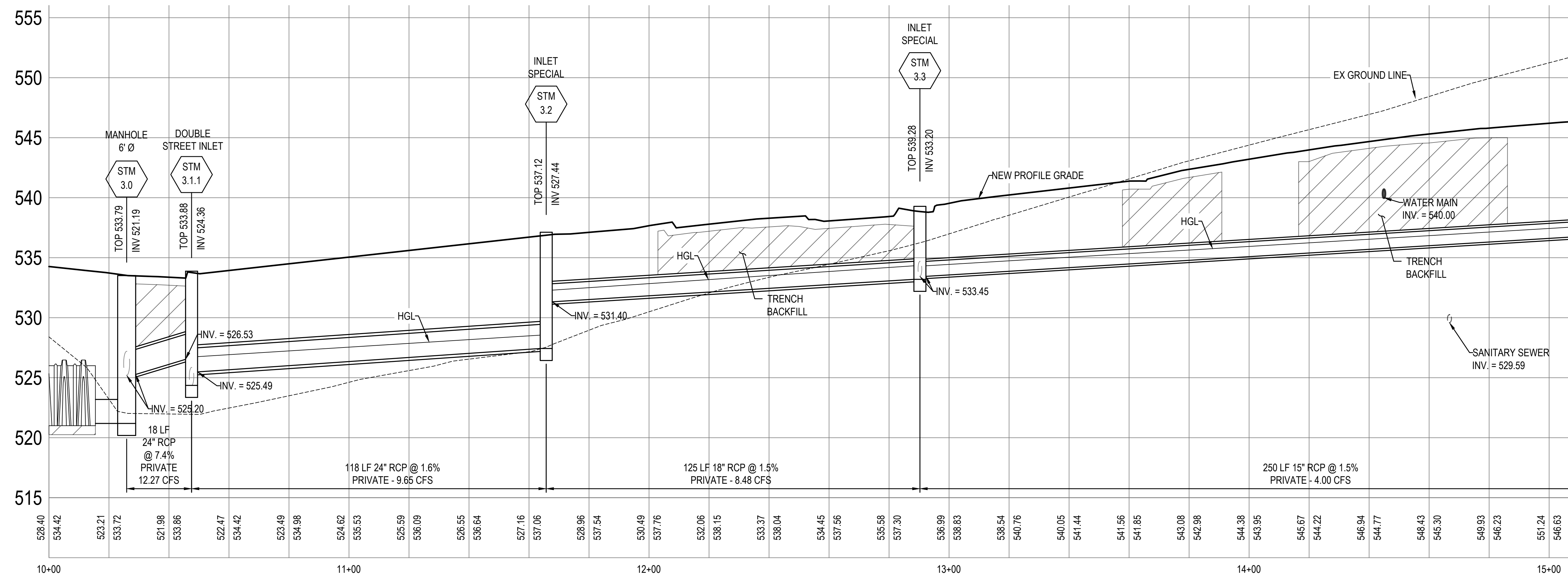
CAD DWG FILE:
DRAWN BY: AJN
CHECKED BY: PHJ
DESIGNED BY: MYS

SHEET TITLE:
Drainage Profiles

SHEET NUMBER:

C404

35 OF 272 SHEETS
05/03/2024



MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4



DATE: 05/03/2024
EXPIRES: 12/31/2025



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BLVD, ST. LOUIS, MO
63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
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DATE: _____

ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: AJN
CHECKED BY: PHJ
DESIGNED BY: MYS

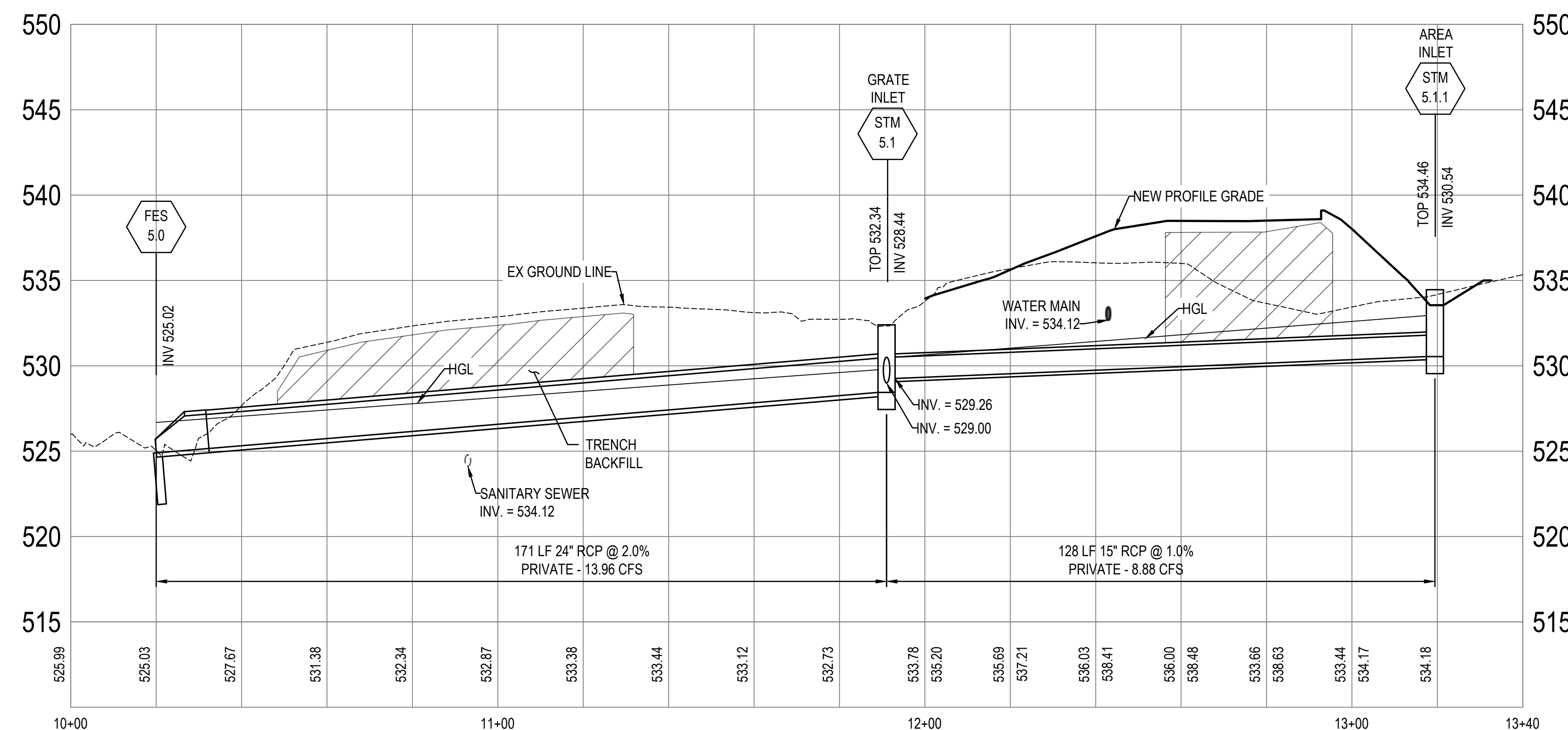
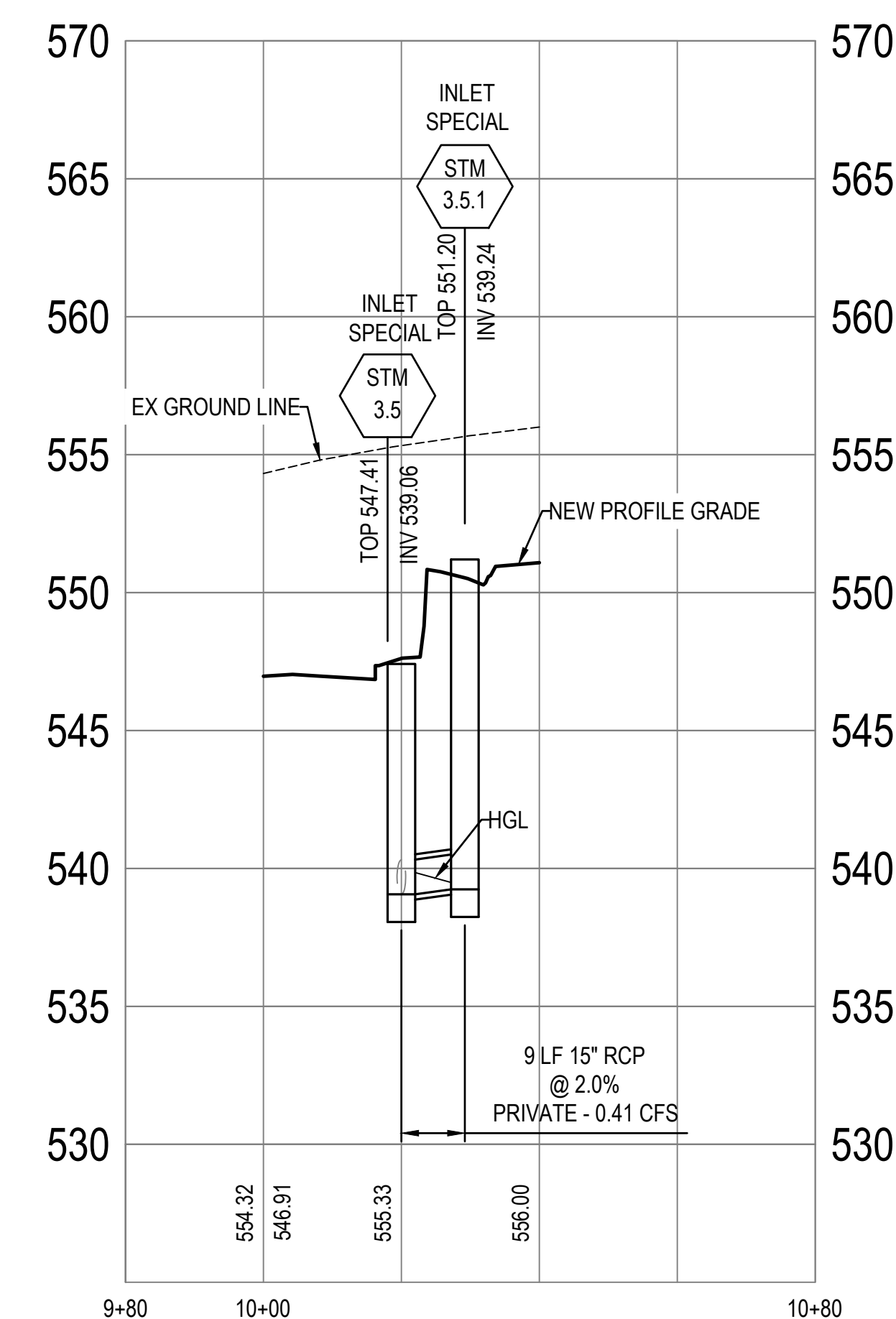
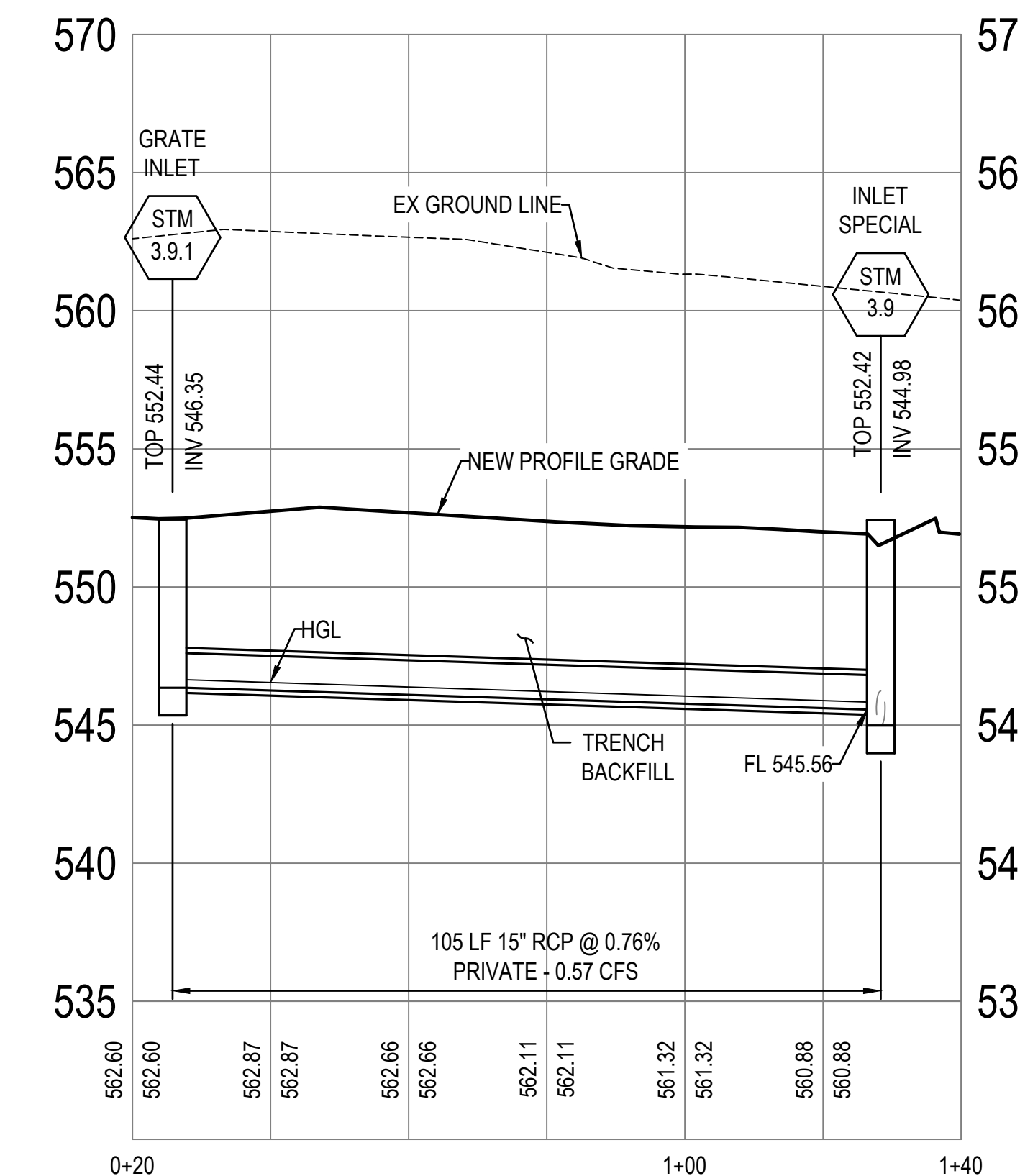
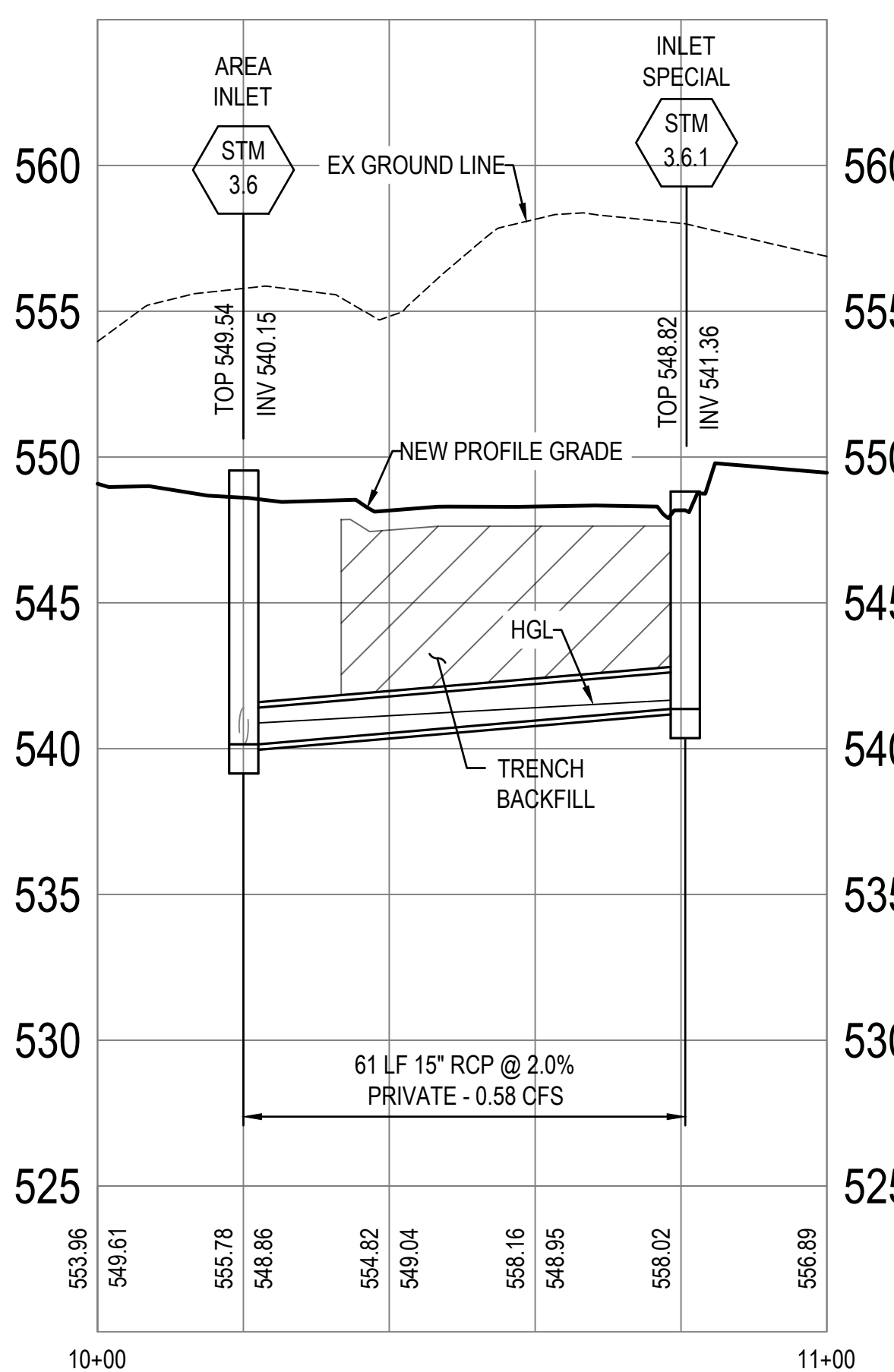
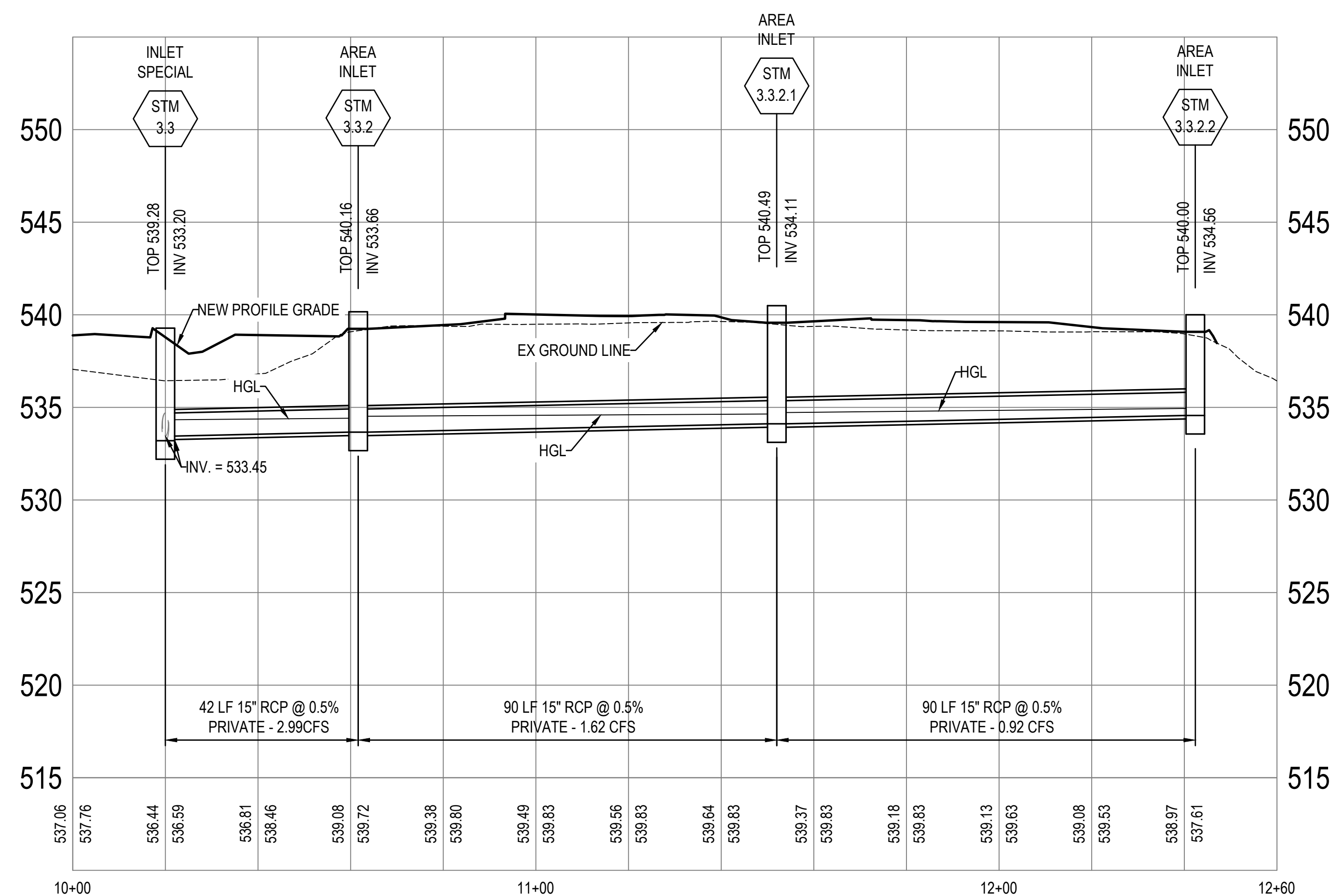
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36 OF 272 SHEETS
05/03/2024





DATE: 05/03/2024
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CAD DWG FILE: _____
DRAWN BY: AJN
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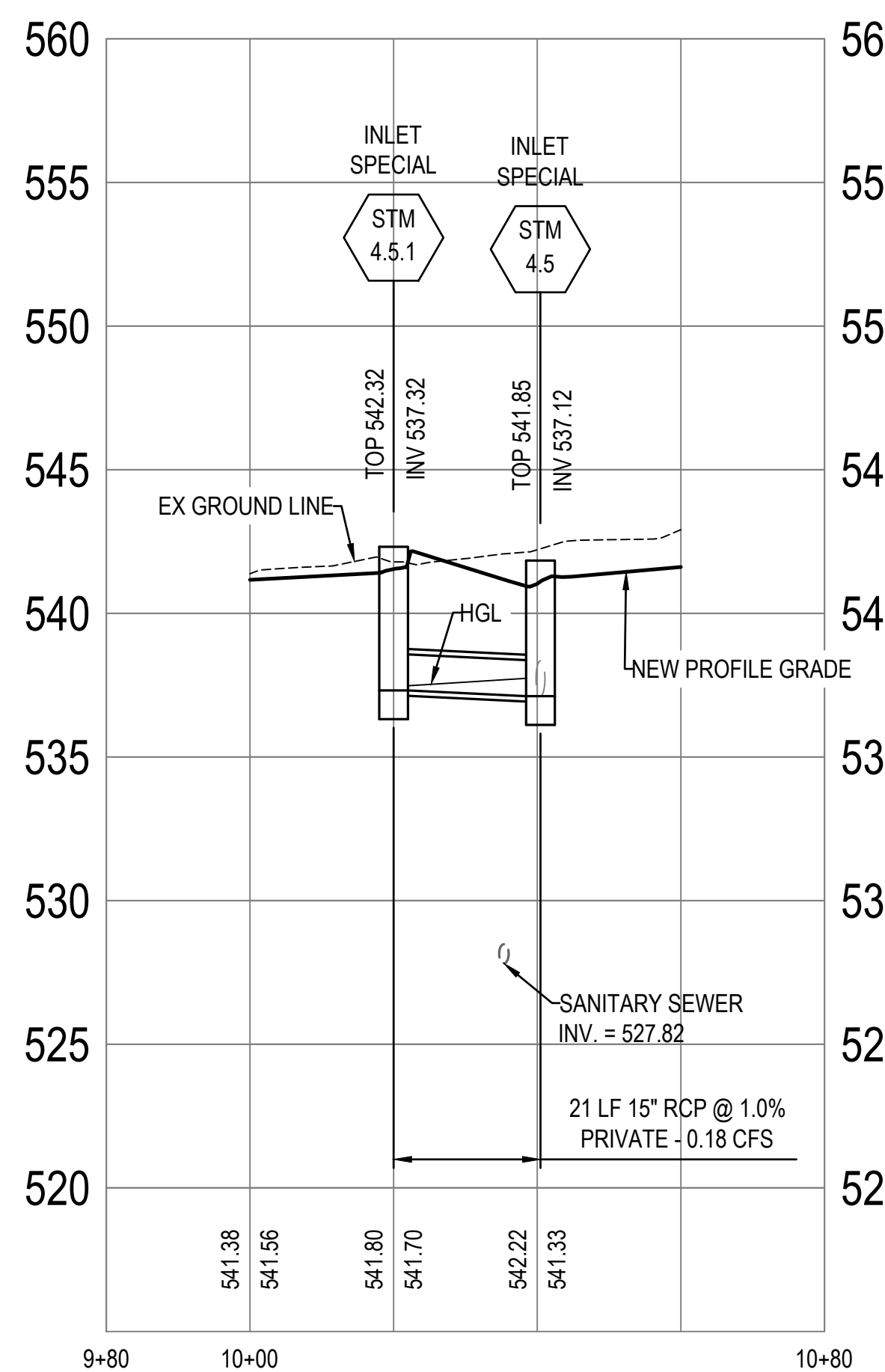
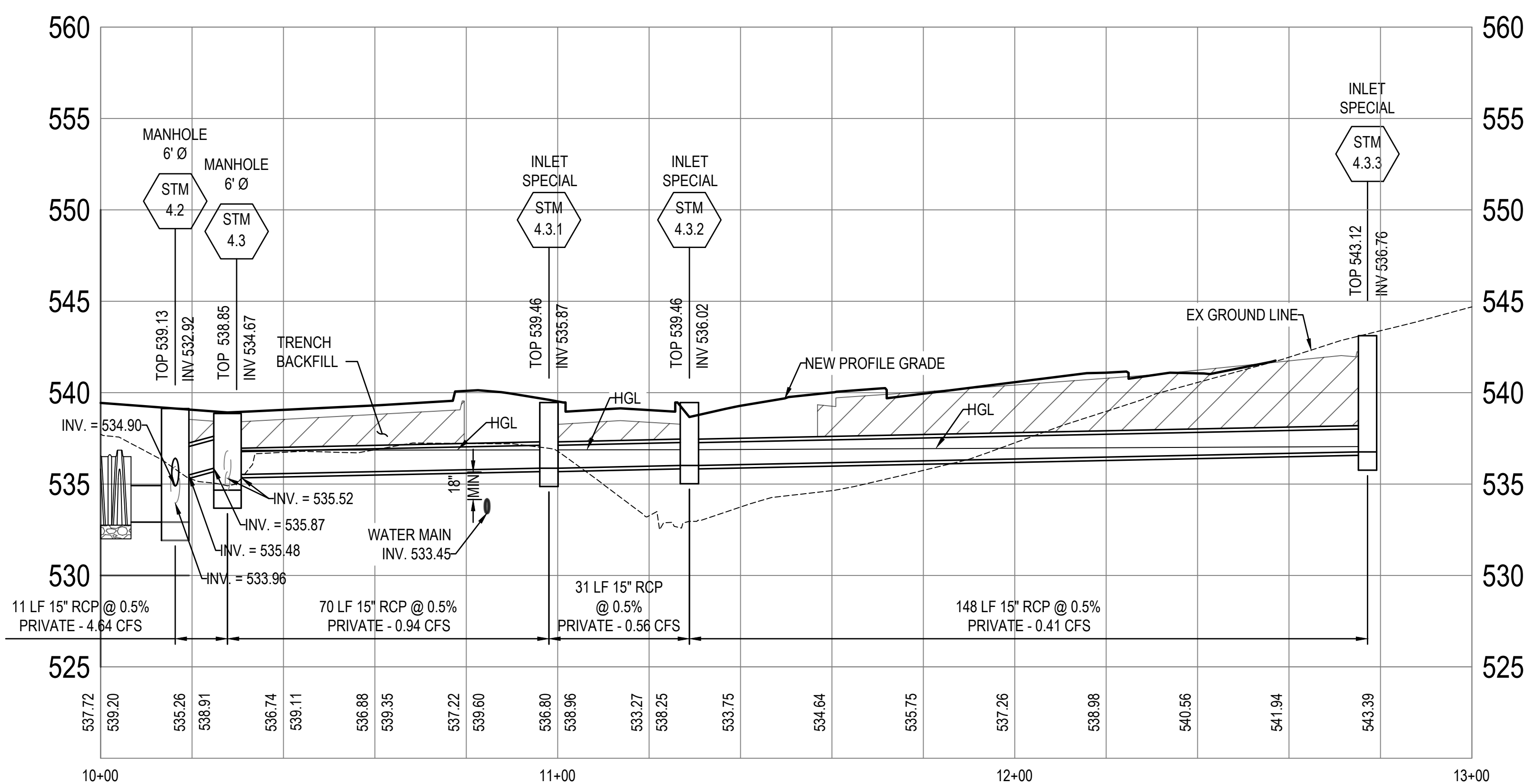
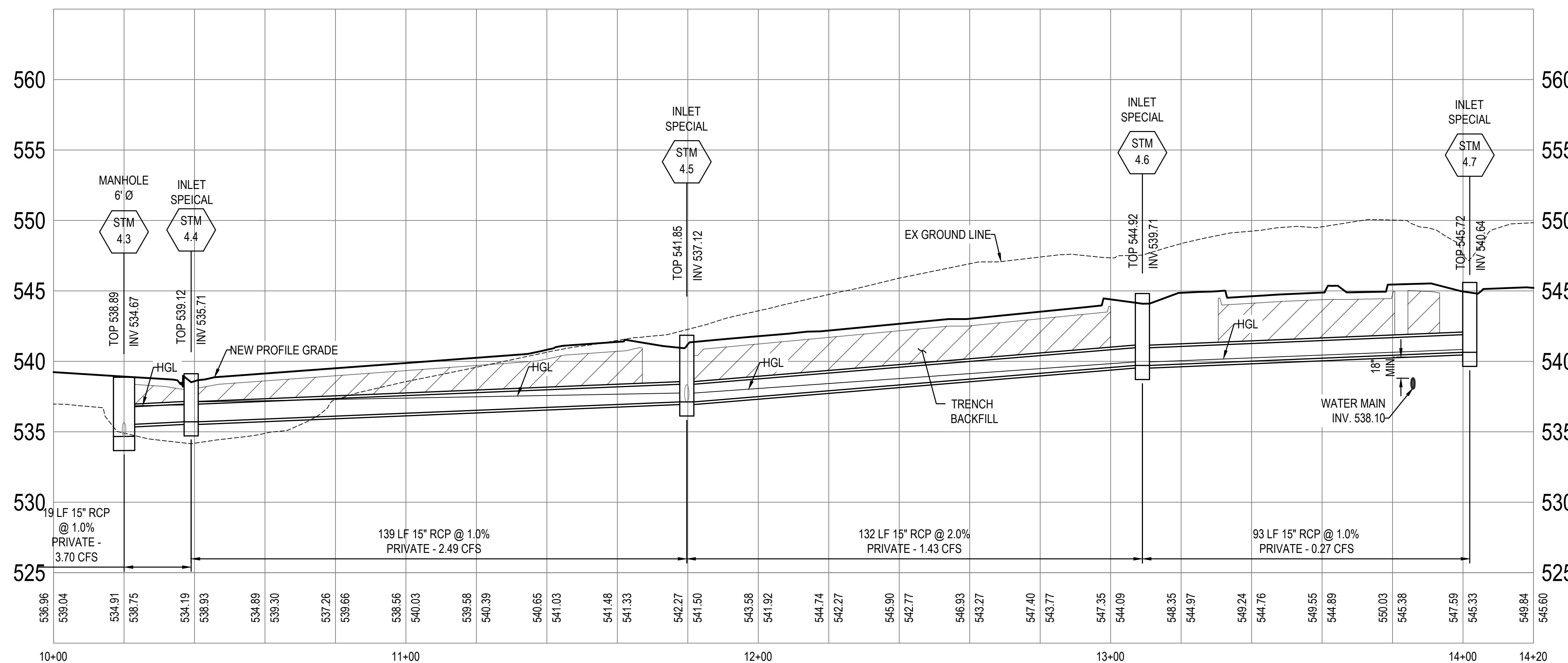
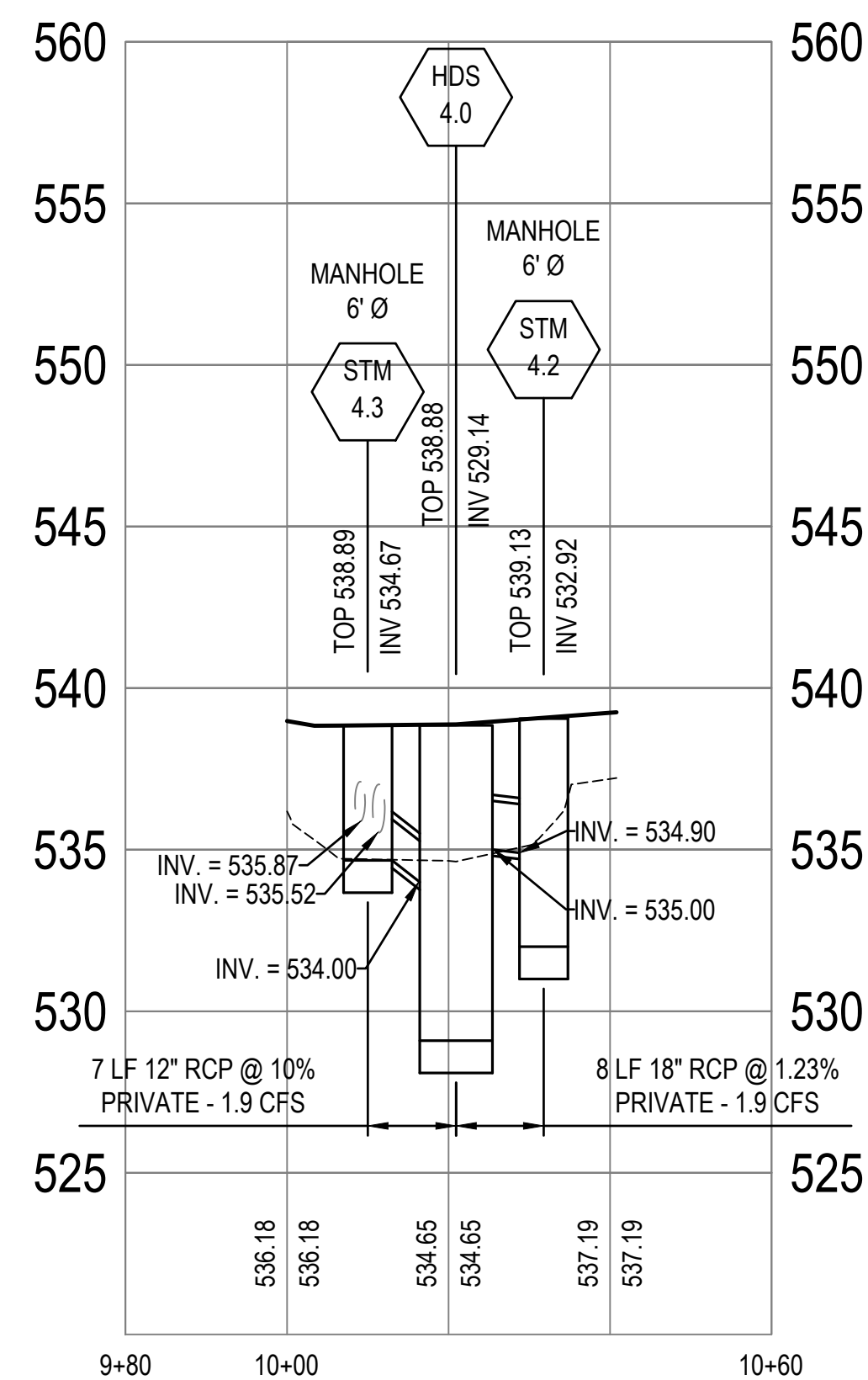
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Drainage Profiles

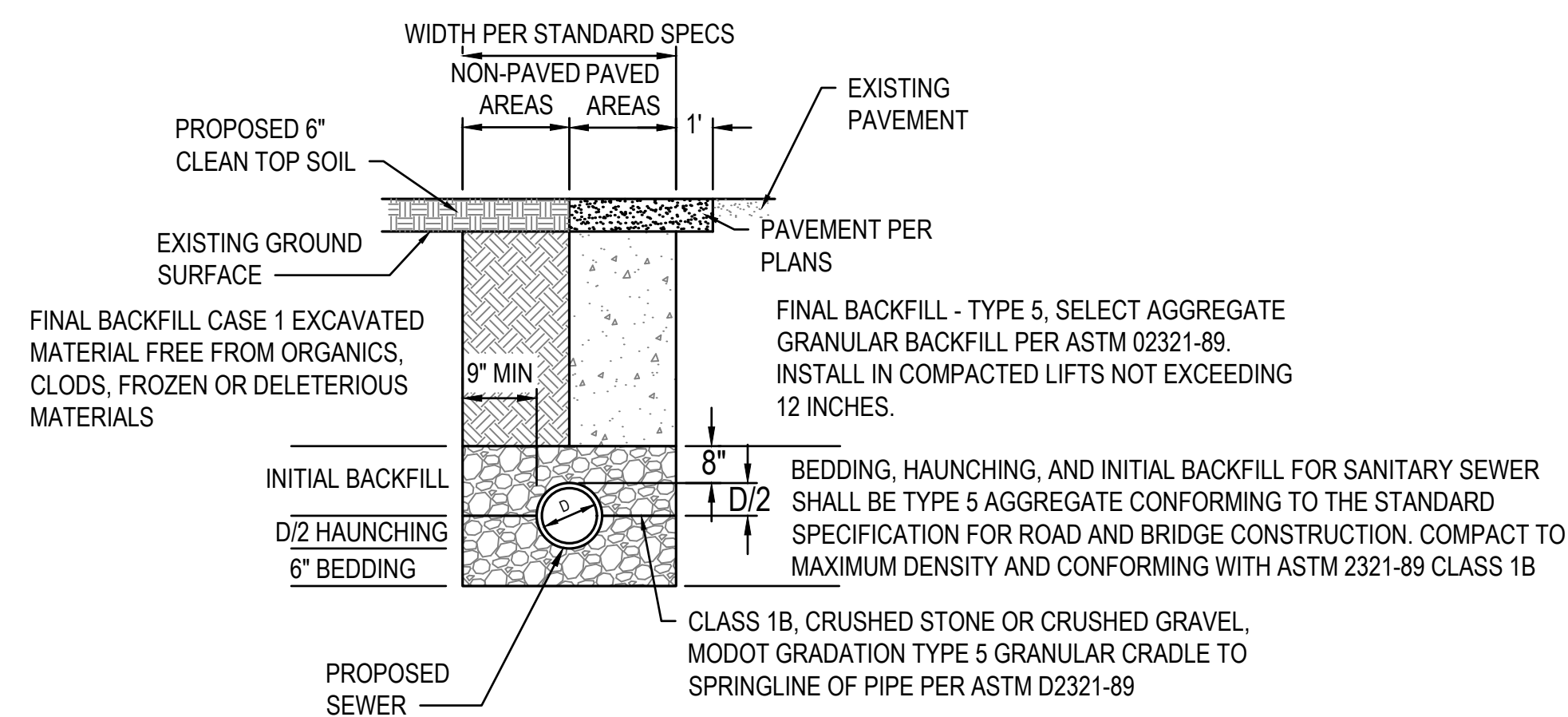
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C406

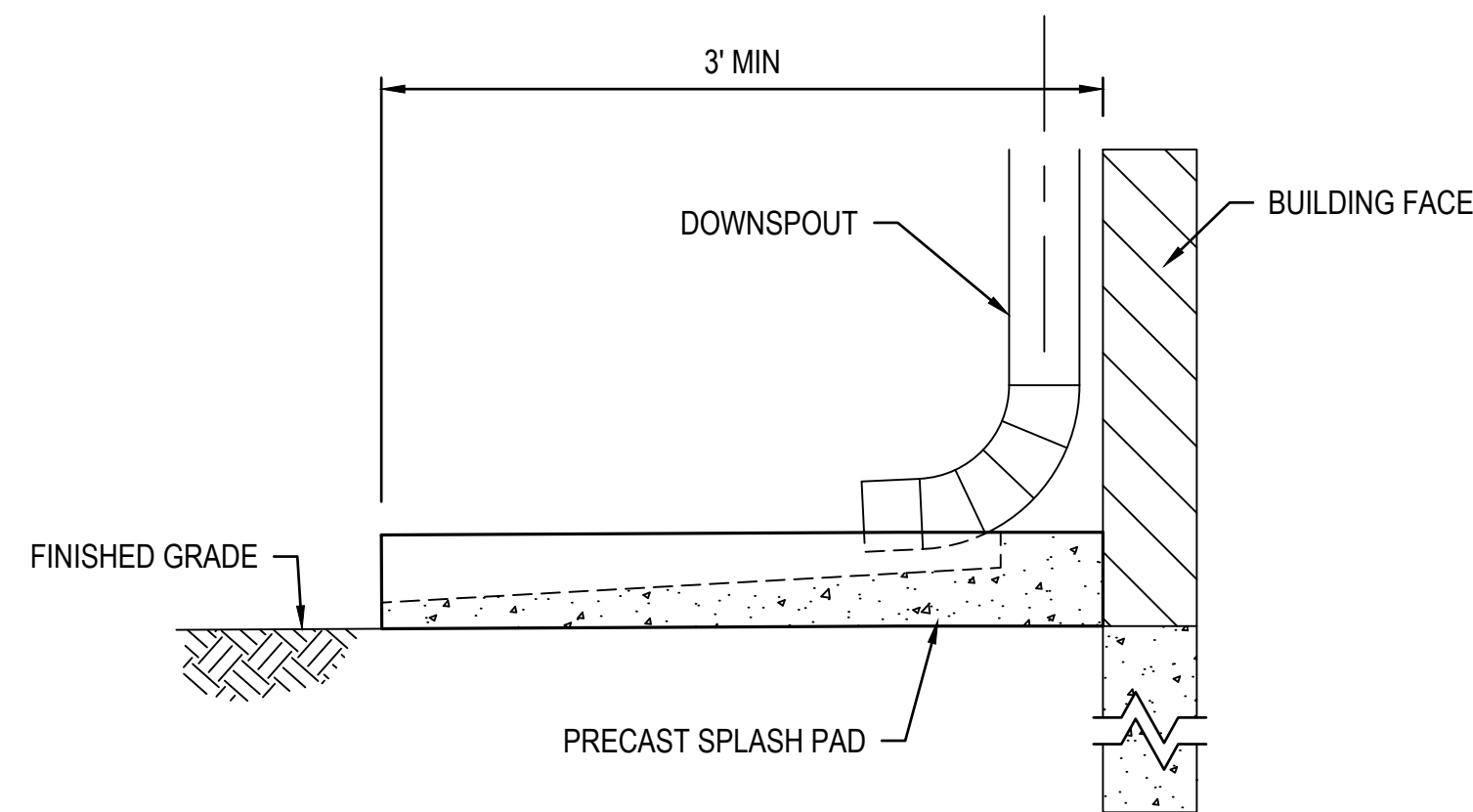
MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4

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05/03/2024

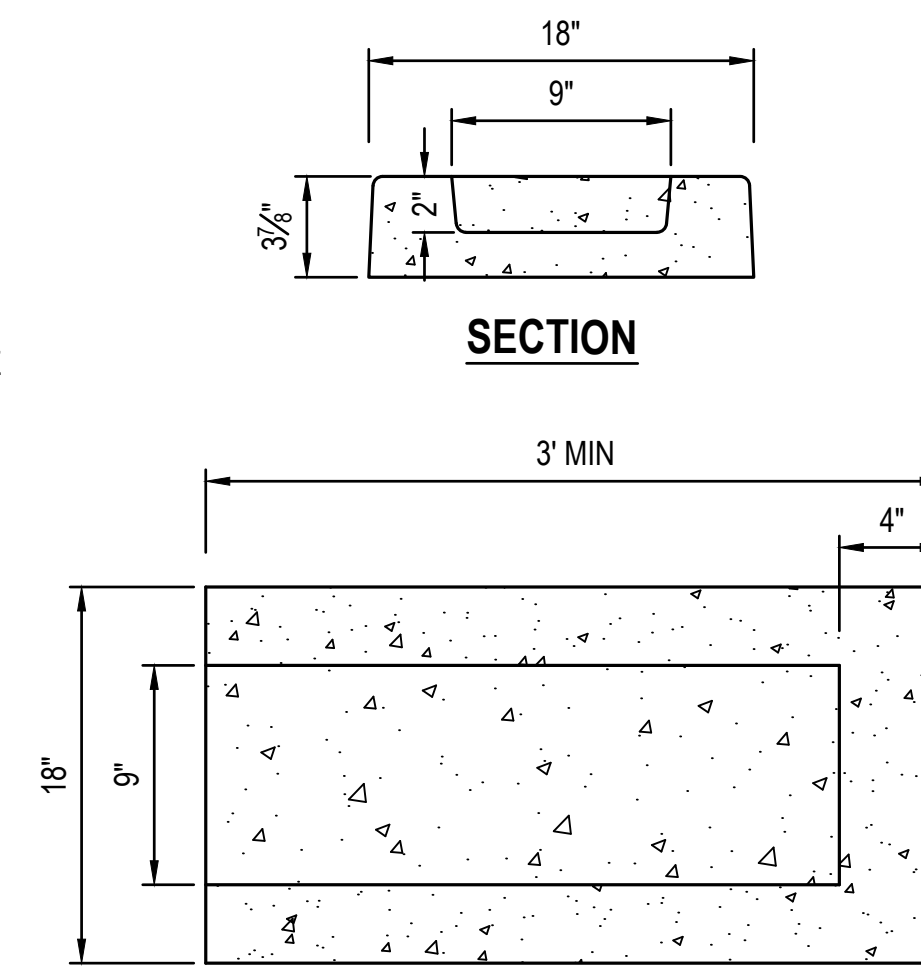




1 SANITARY AND STORM SEWER DETAIL
SCALE: NO SCALE



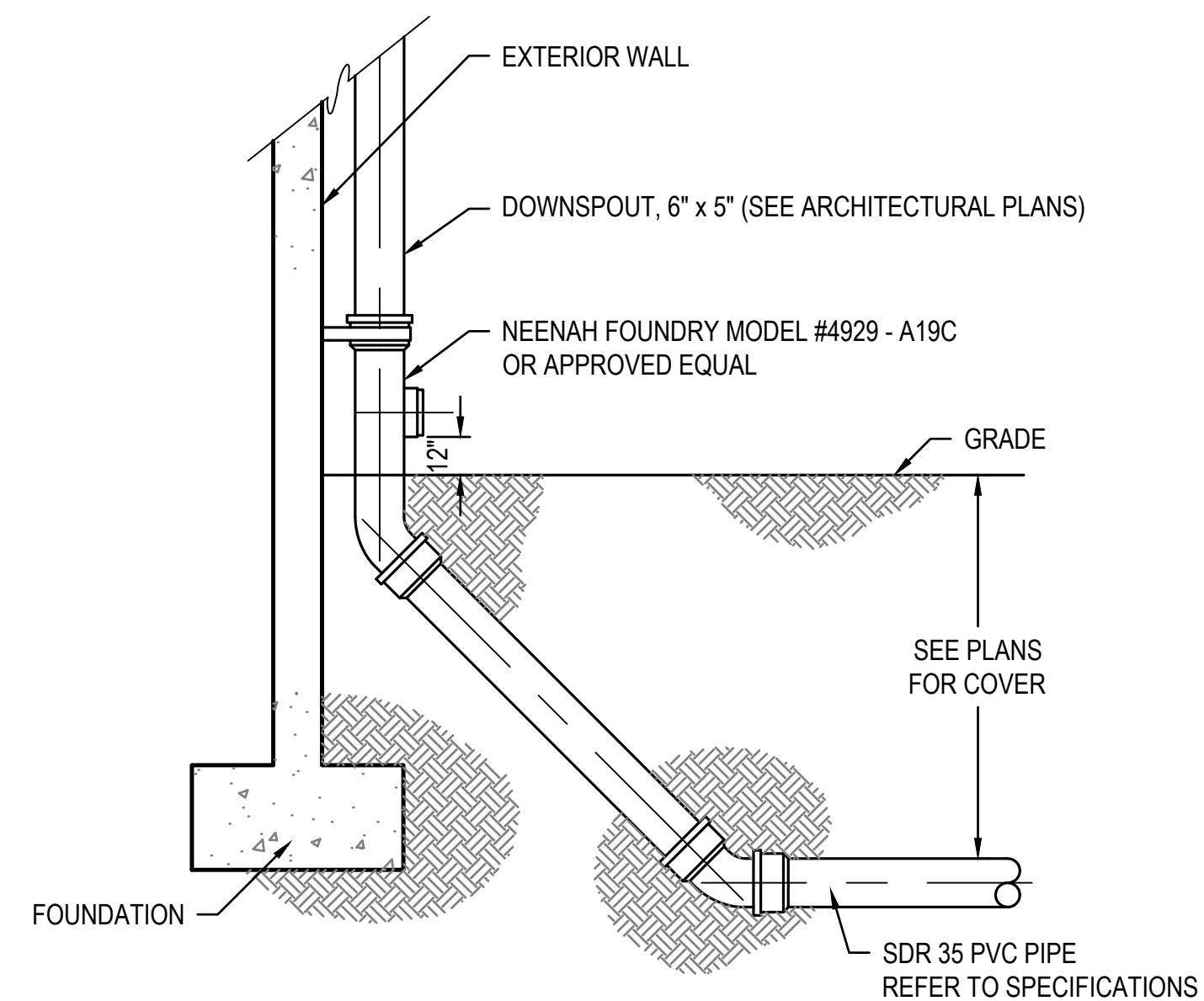
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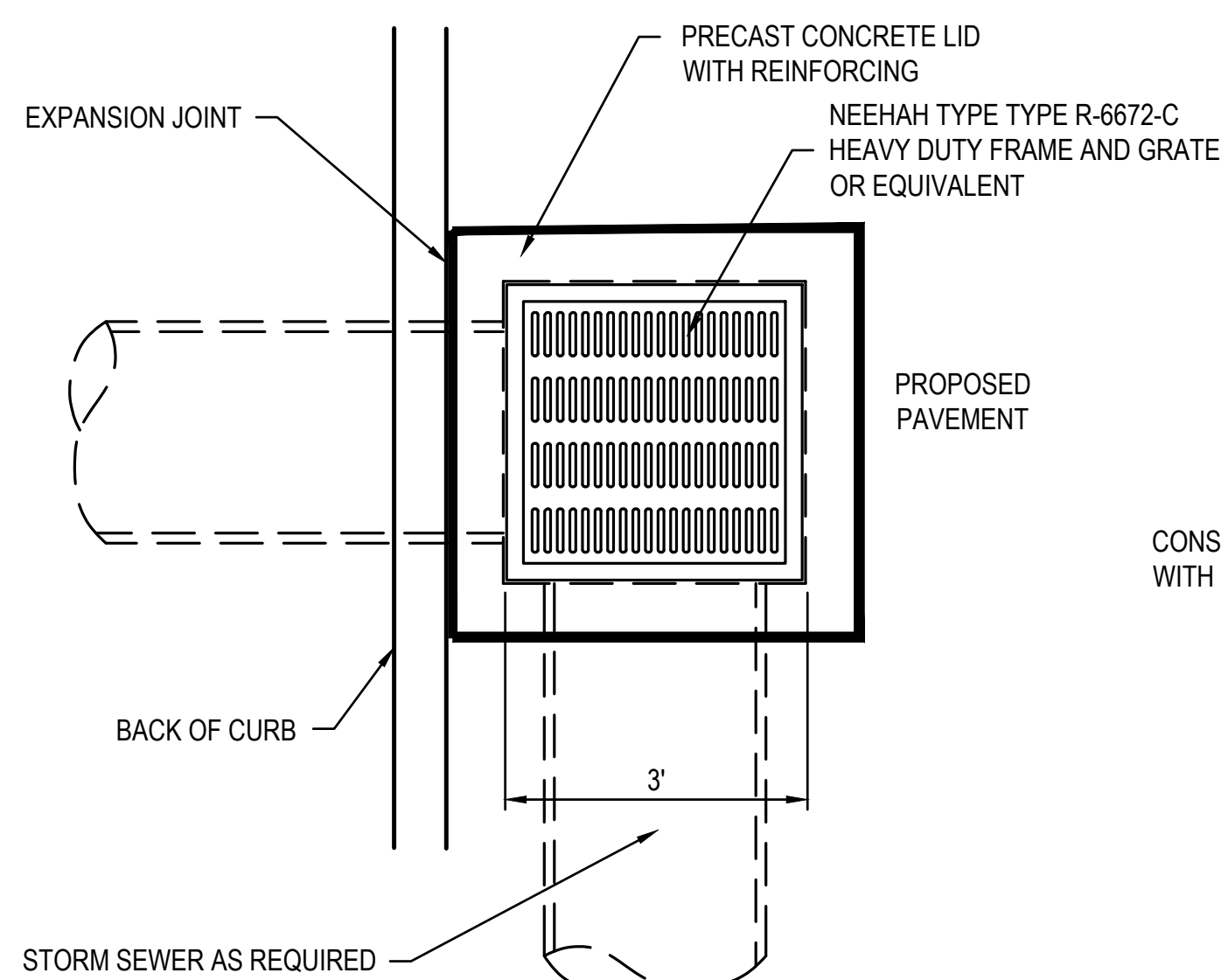
SECTION

PLAN

2 DOWNSPOUT PAD DETAIL
SCALE: NO SCALE

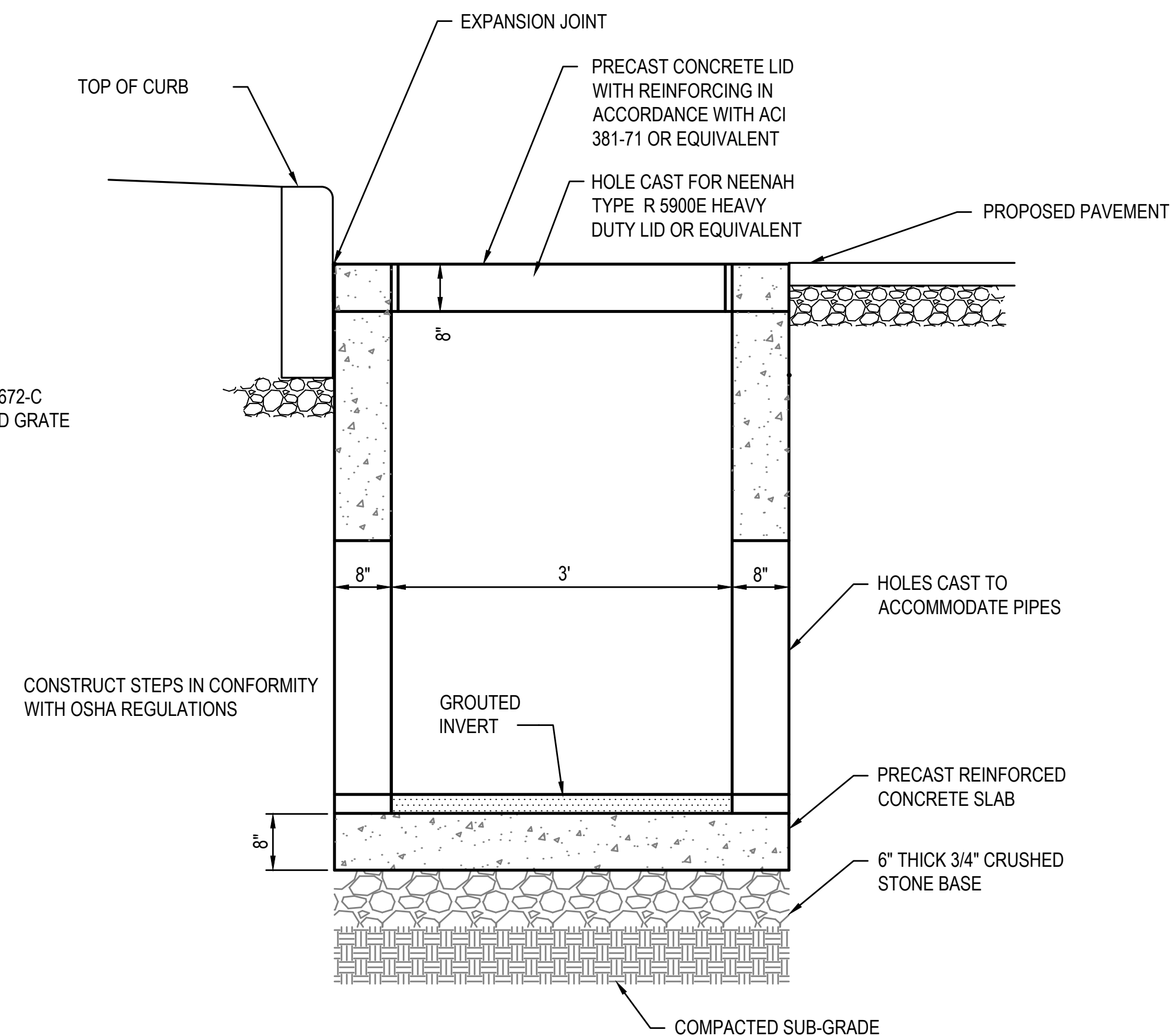


3 DOWNSPOUT SHOE DETAIL
SCALE: NO SCALE



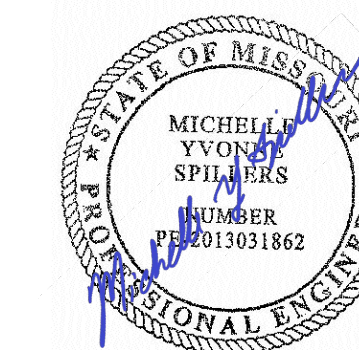
PLAN VIEW

4 GRATE INLET
SCALE: NO SCALE



SIDE VIEW

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



DATE: 05/03/2024
EXPIRES: 12/31/2025



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63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
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CAD DWG FILE: _____
DRAWN BY: AJN
CHECKED BY: PHJ
DESIGNED BY: MYS

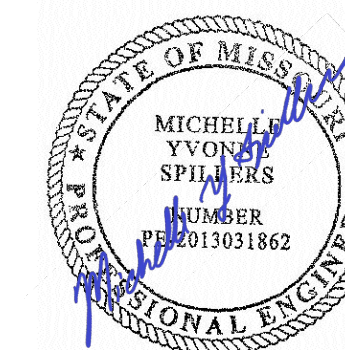
SHEET TITLE:
Drainage Details

SHEET NUMBER:

C407

38 OF 272 SHEETS
05/03/2024

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4



DATE: 05/03/2024
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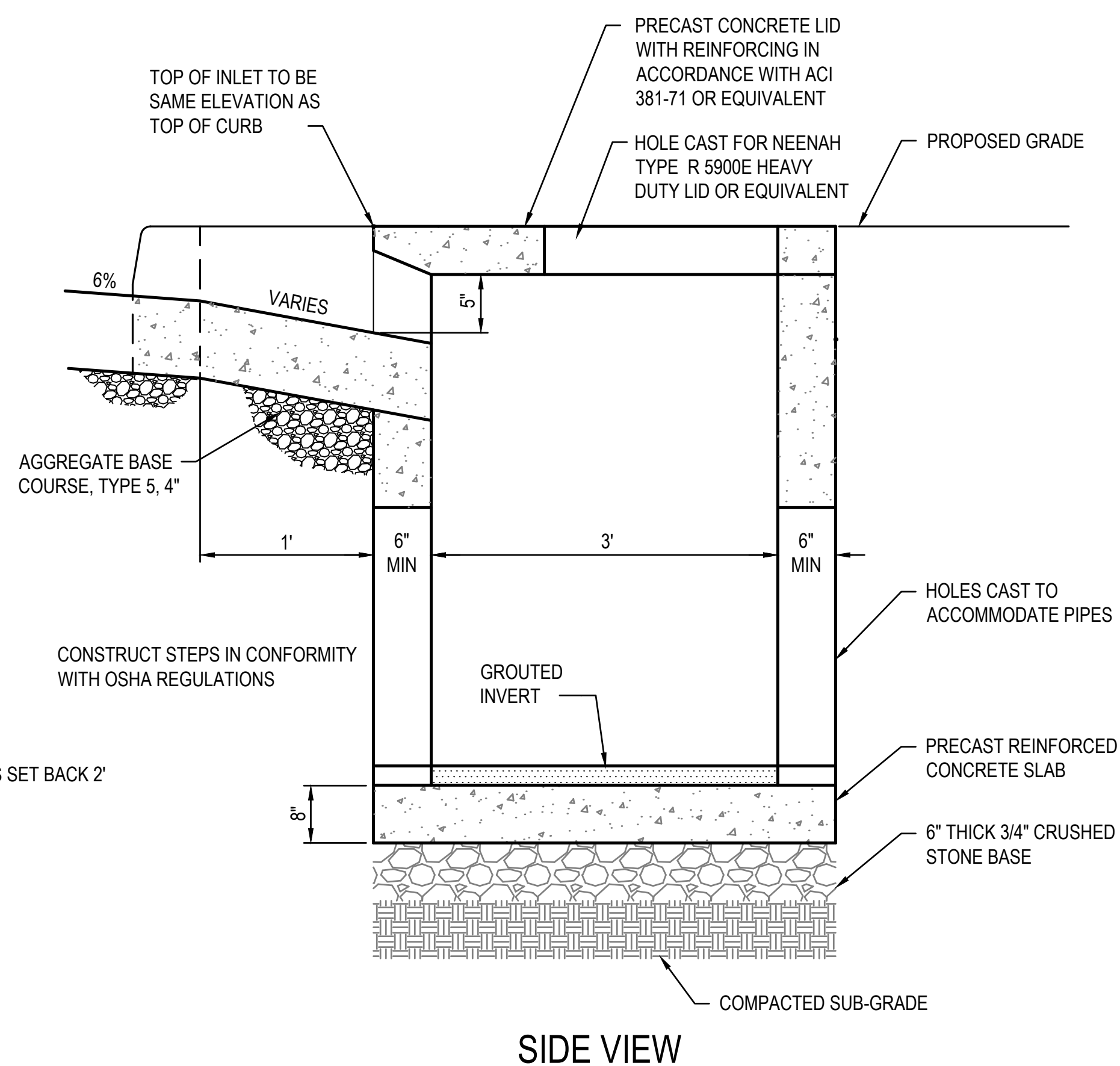
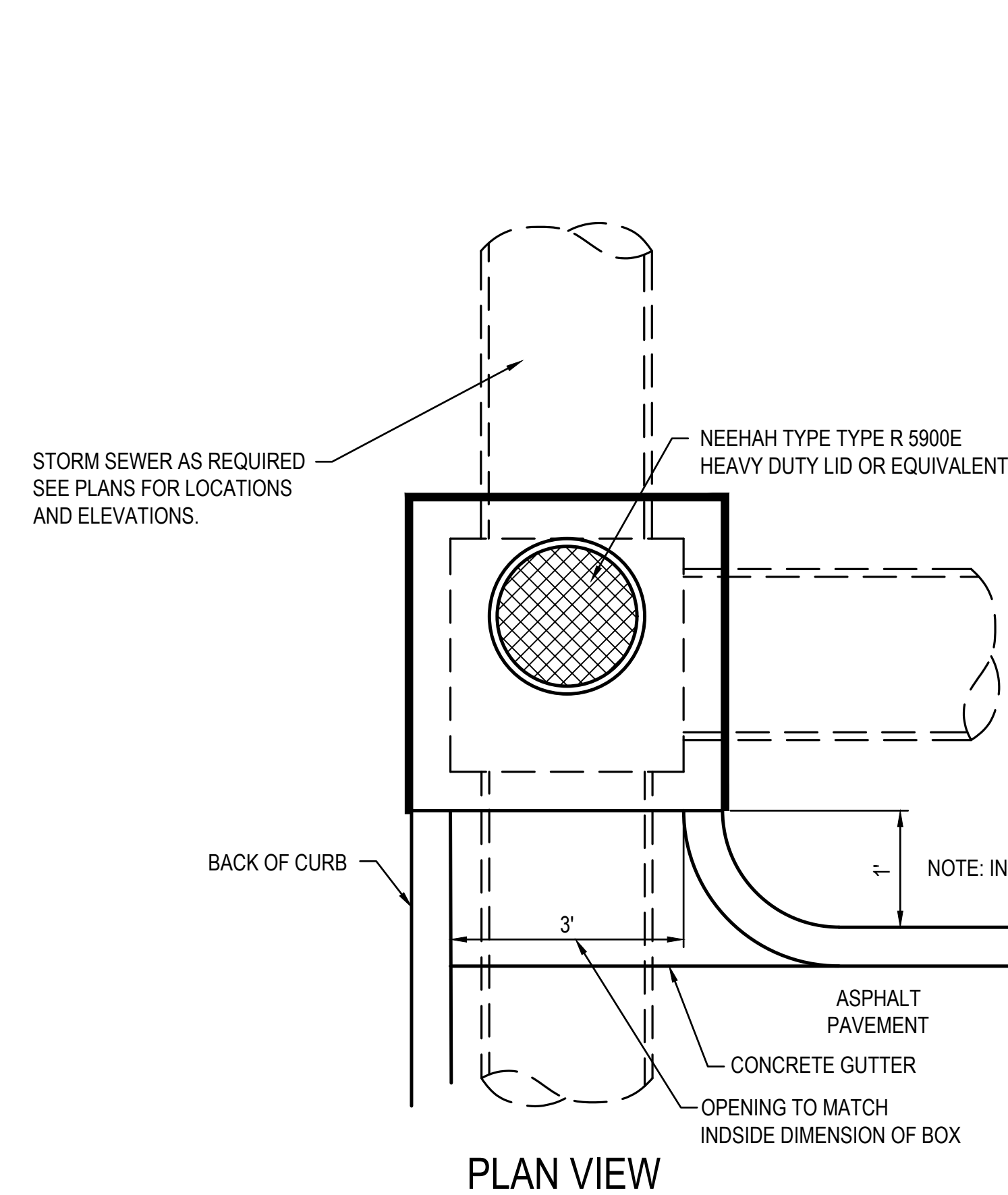
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Drainage Details

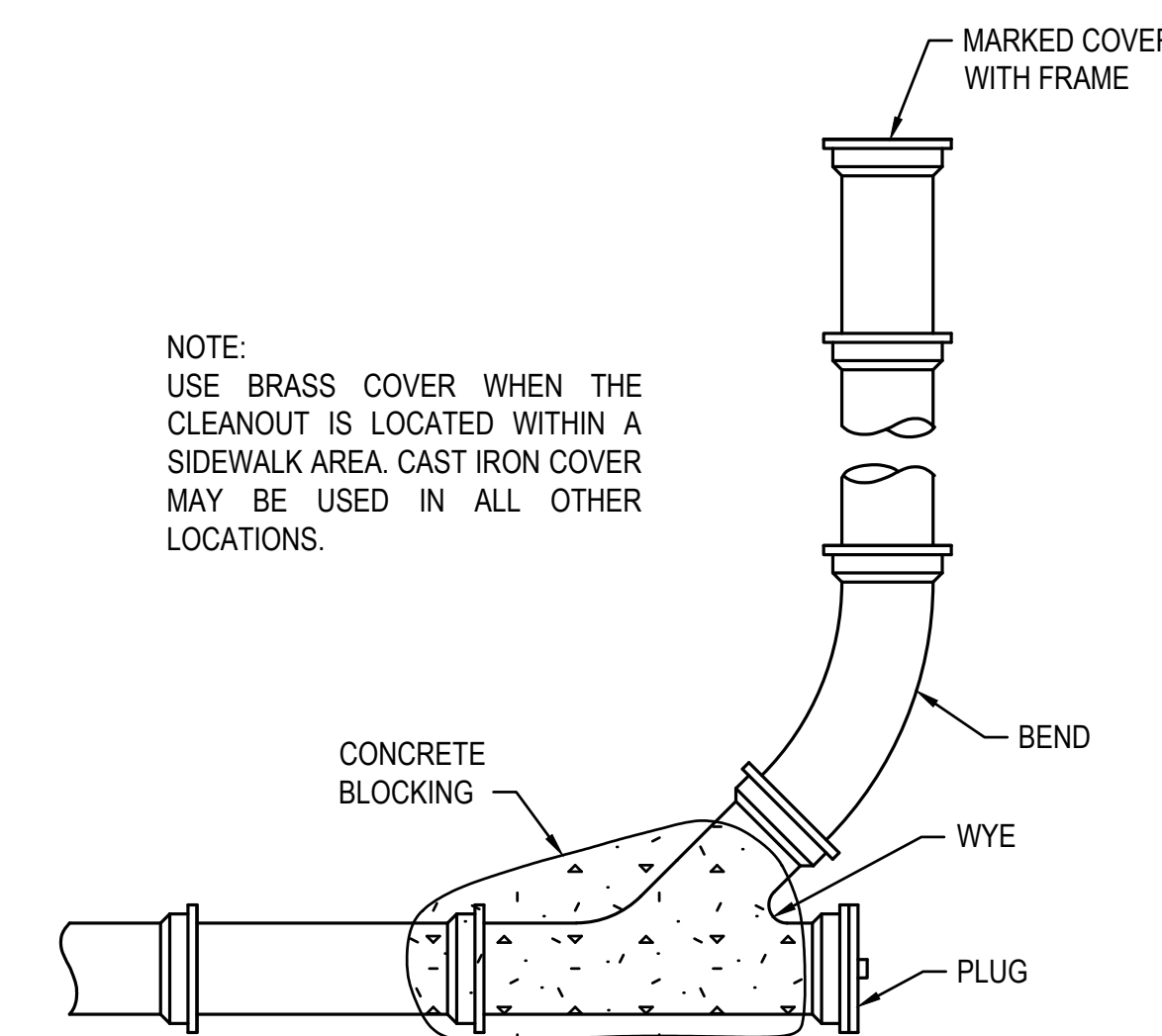
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C408

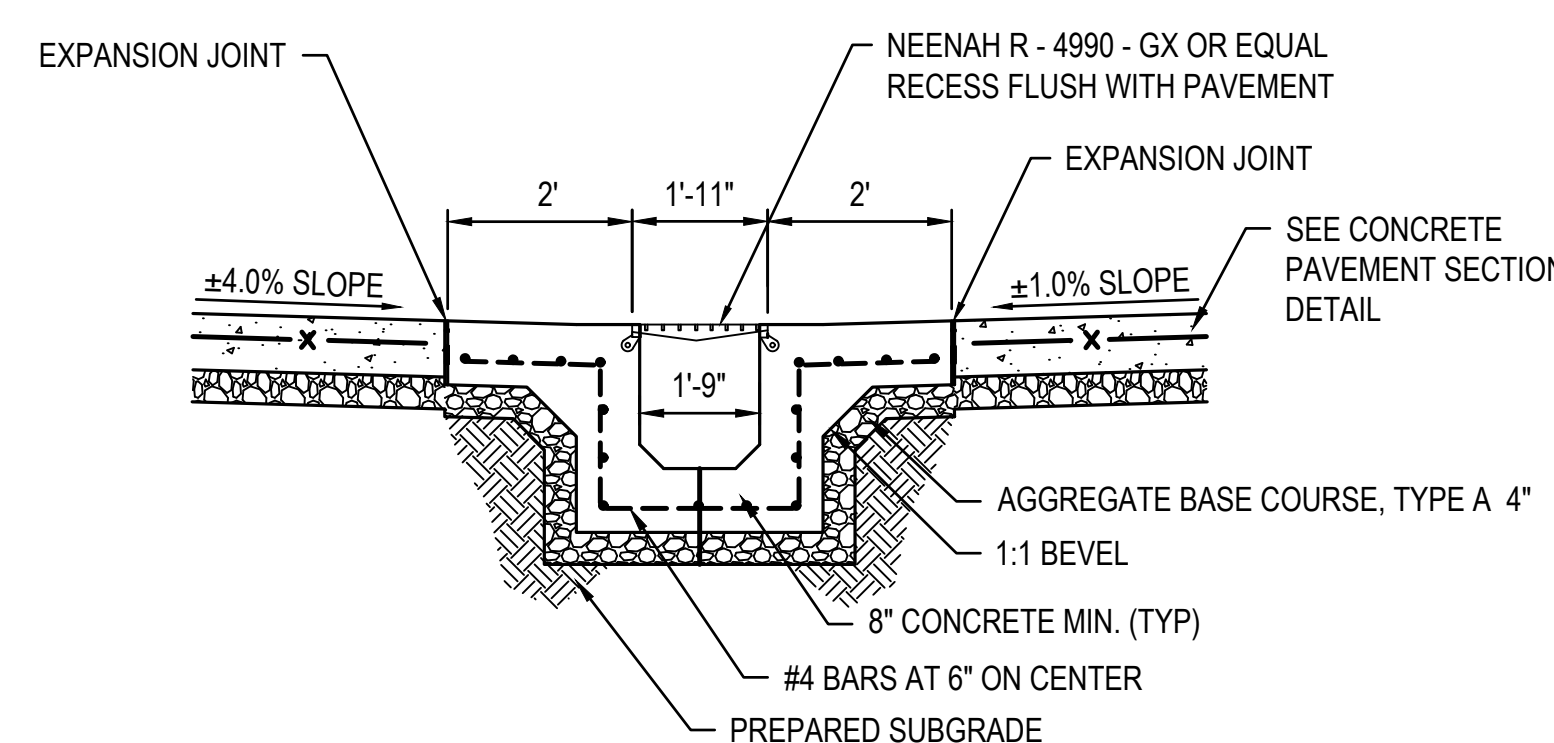
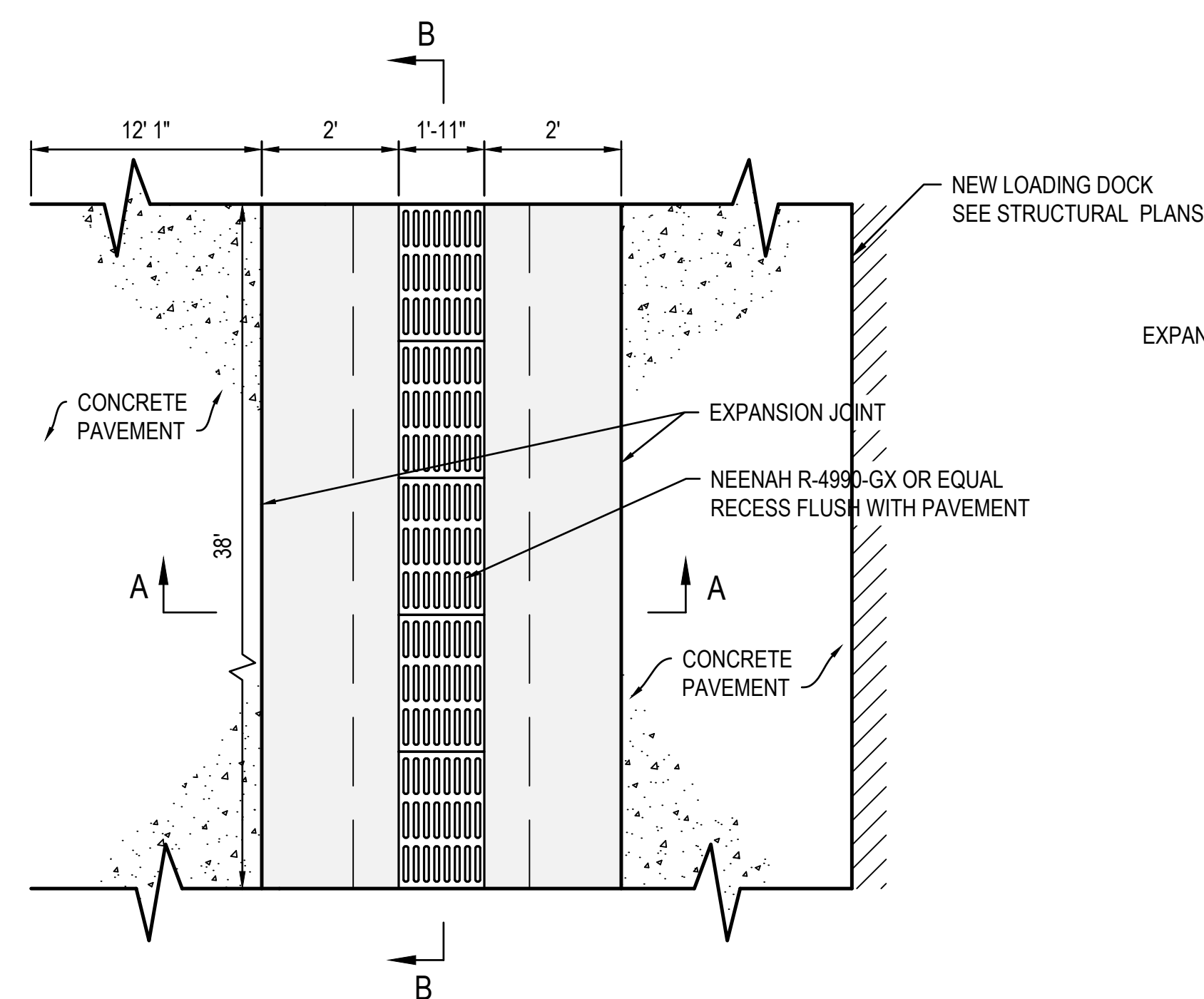
39 OF 272 SHEETS
05/03/2024



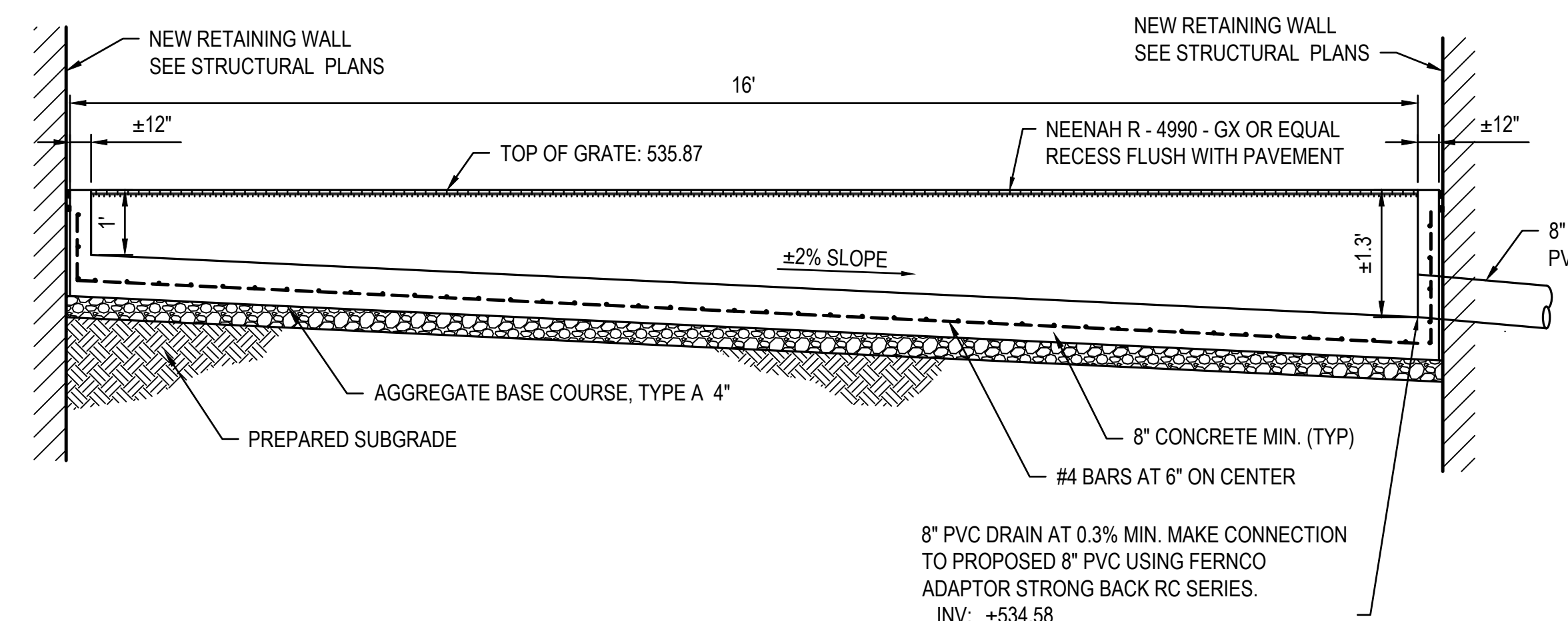
1 **INLET, SPECIAL**
SCALE: NO SCALE



2 **ROOF DRAIN CLEANOUT**
SCALE: NO SCALE



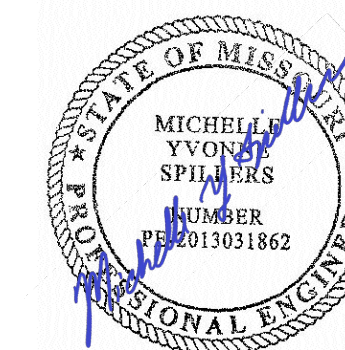
SECTION A - A



SECTION B - B

INSTALL NEW GRATE PER MANUFACTURERS INSTRUCTIONS

3 **TRENCH DRAIN DETAIL**
SCALE: NO SCALE



DATE: 05/03/2024
EXPIRES: 12/31/2025



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PROJECT # T2150-01
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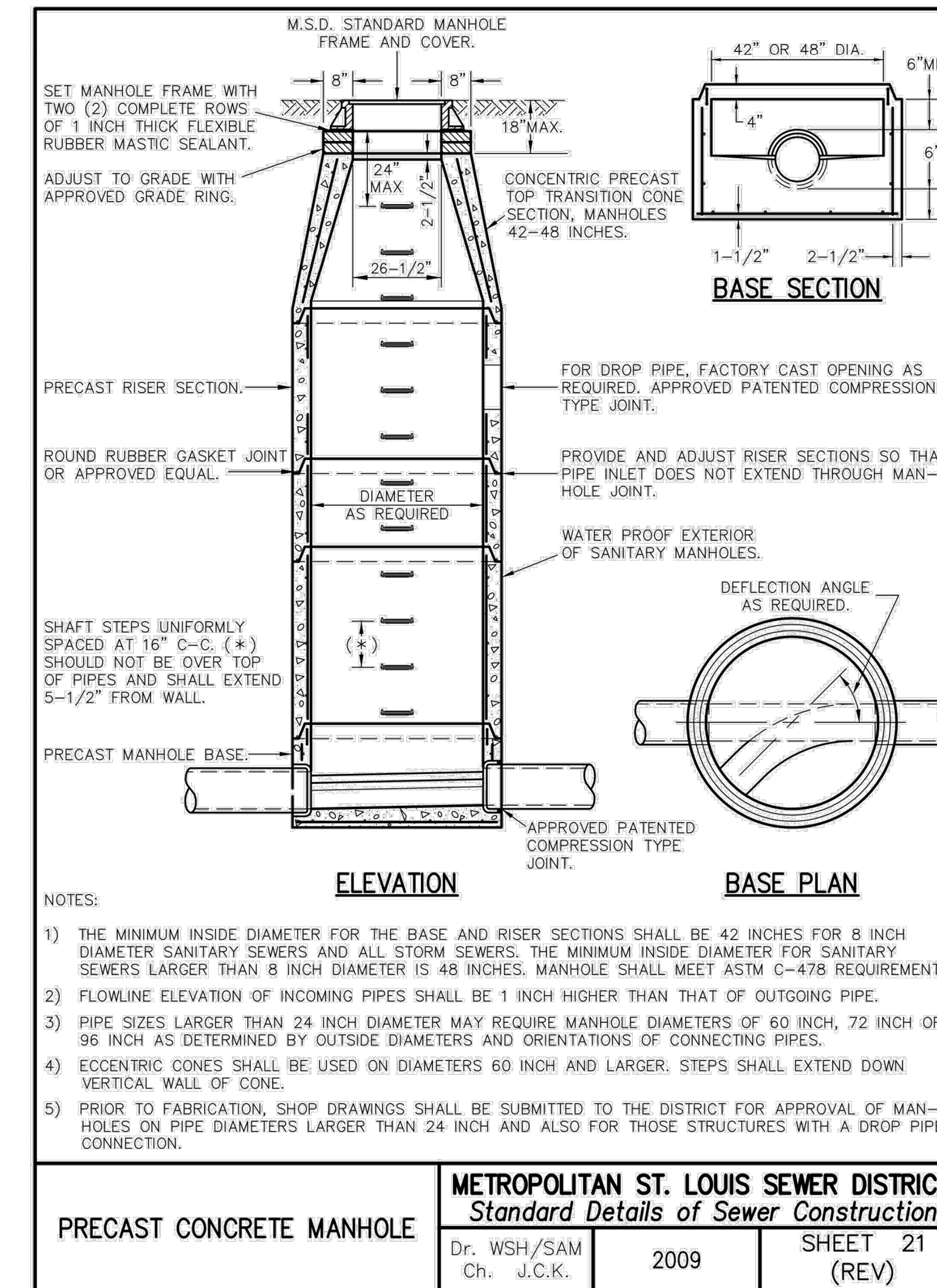
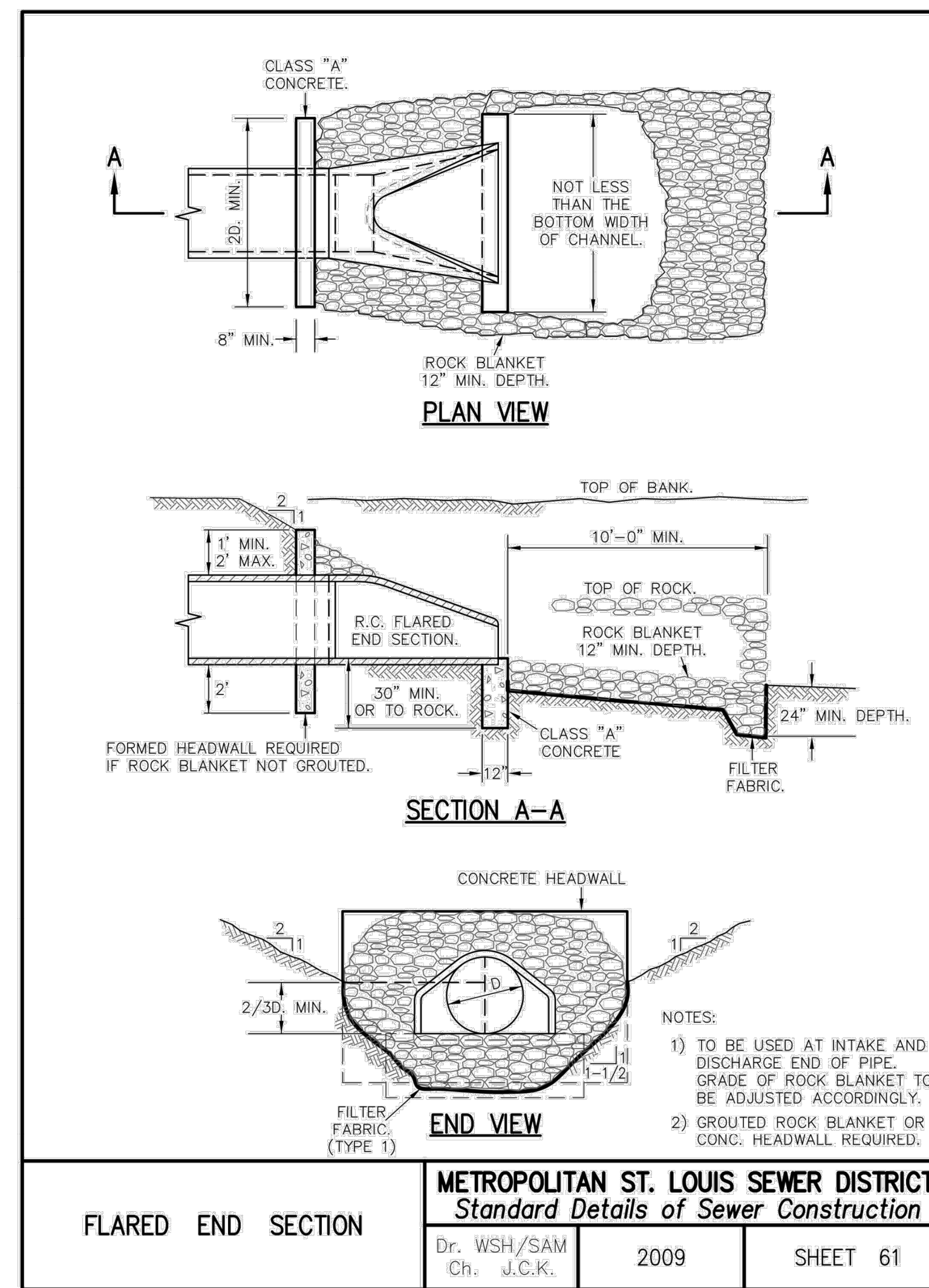
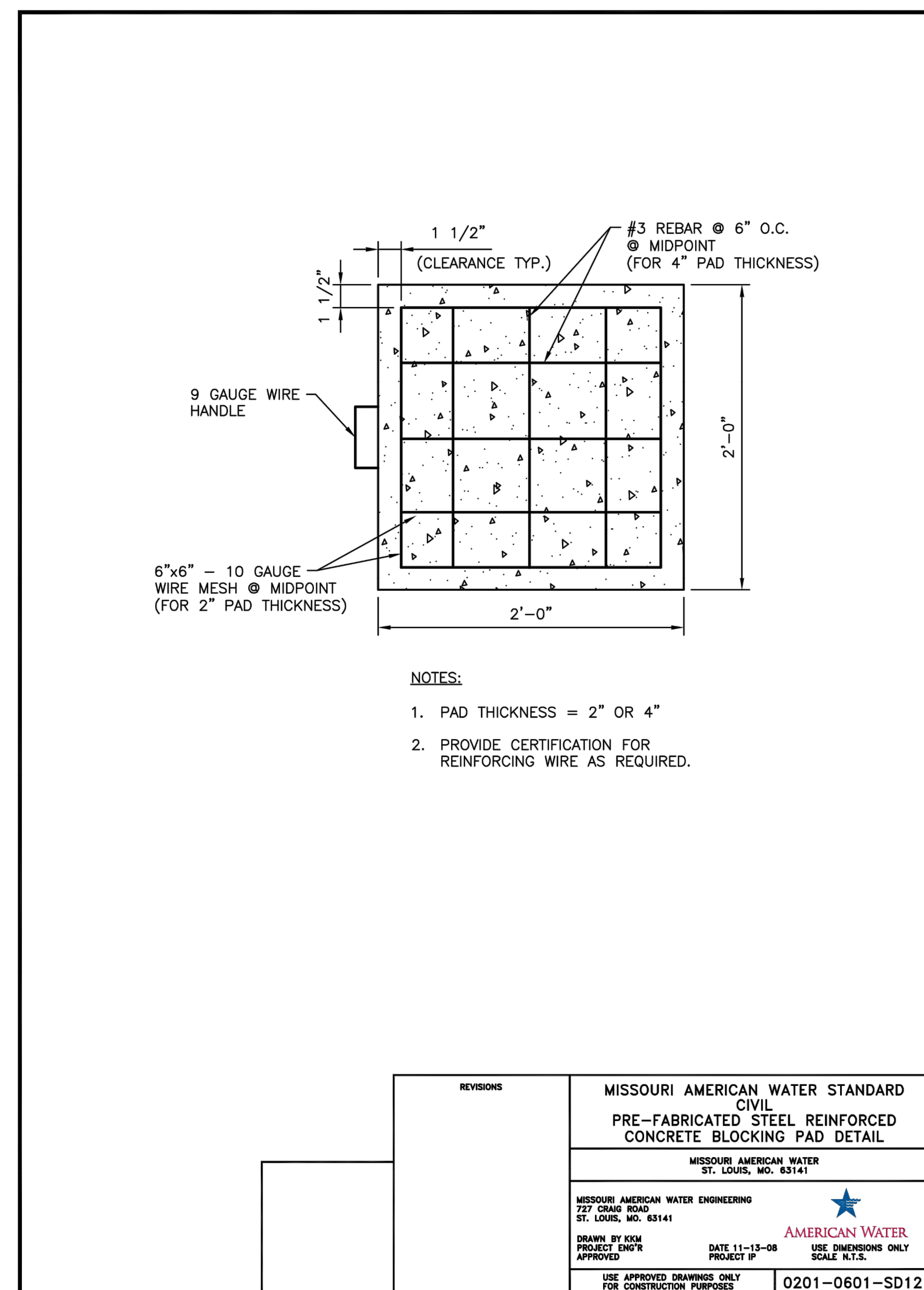
CAD DWG FILE: _____
DRAWN BY: AJN
CHECKED BY: PHJ
DESIGNED BY: MYS

SHEET TITLE:
Drainage Details

SHEET NUMBER:

C409

40 OF 272 SHEETS
05/03/2024





DATE: 05/03/2024
EXPIRES: 12/31/2025



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BLVD, ST. LOUIS, MO
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PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

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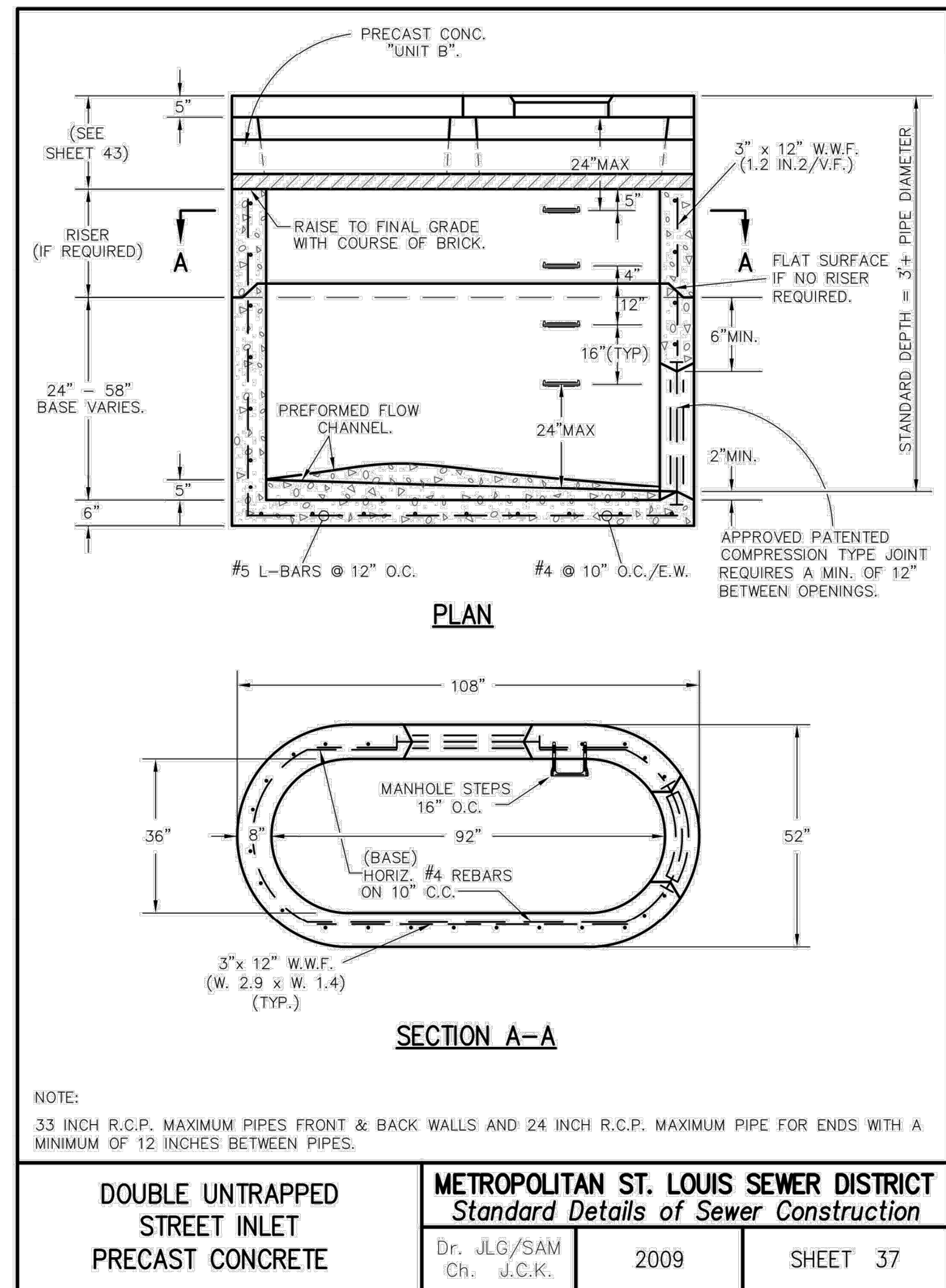
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DRAWN BY: AAN
CHECKED BY: PHJ
DESIGNED BY: MYS

SHEET TITLE:
Drainage Details

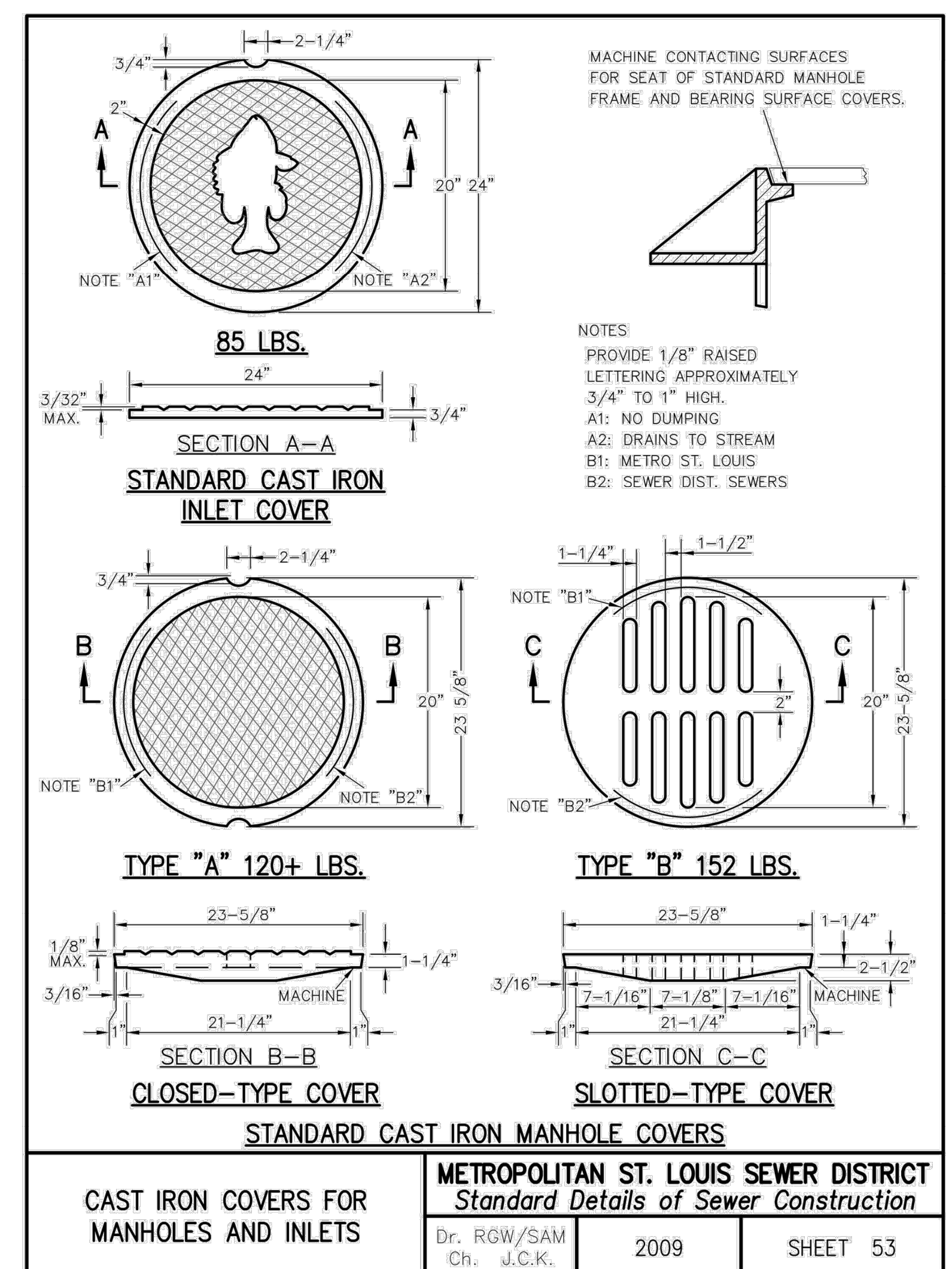
SHEET NUMBER:

C410

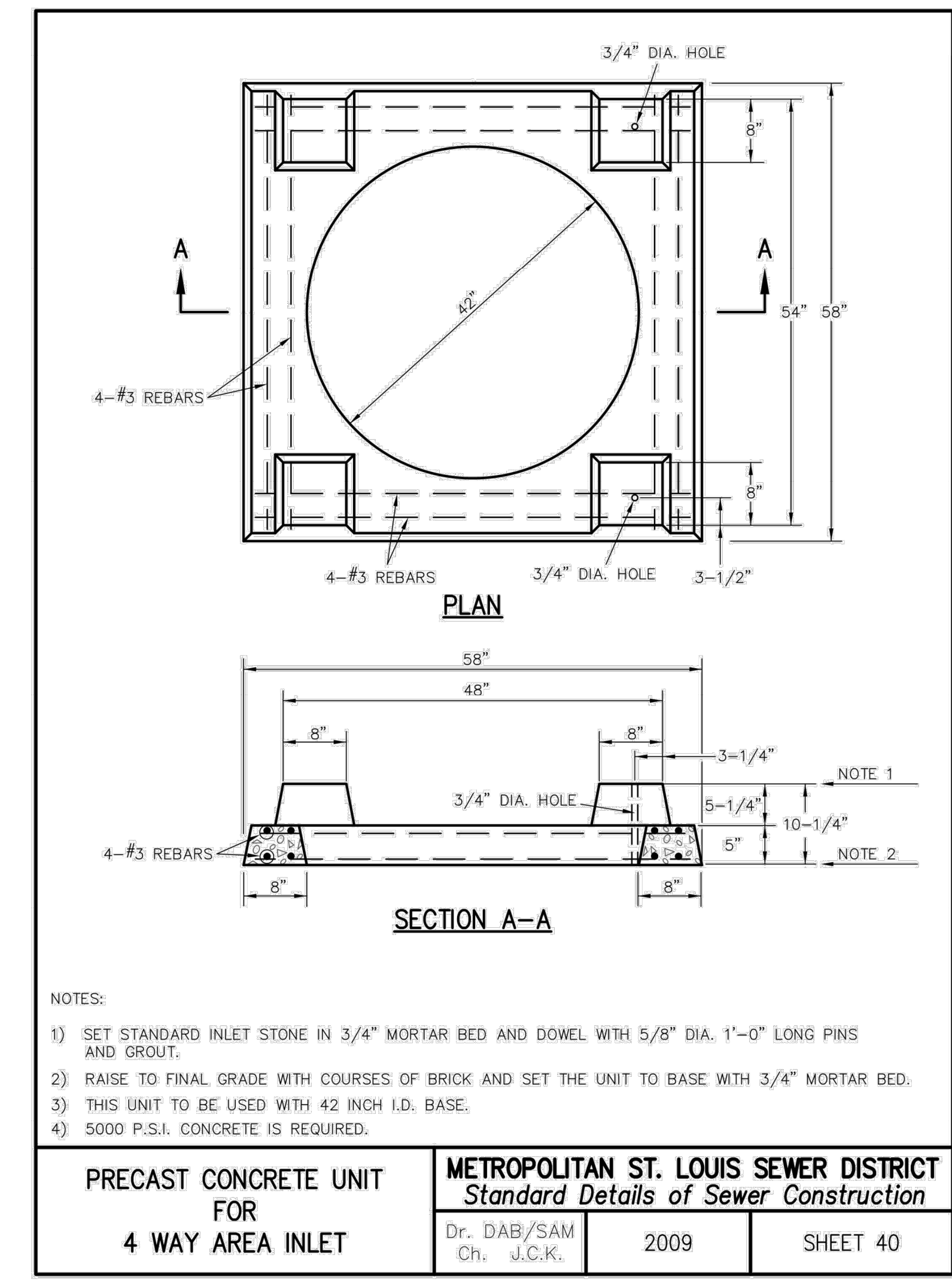
41 OF 272 SHEETS
05/03/2024



DOUBLE INLET
SCALE: NO SCALE

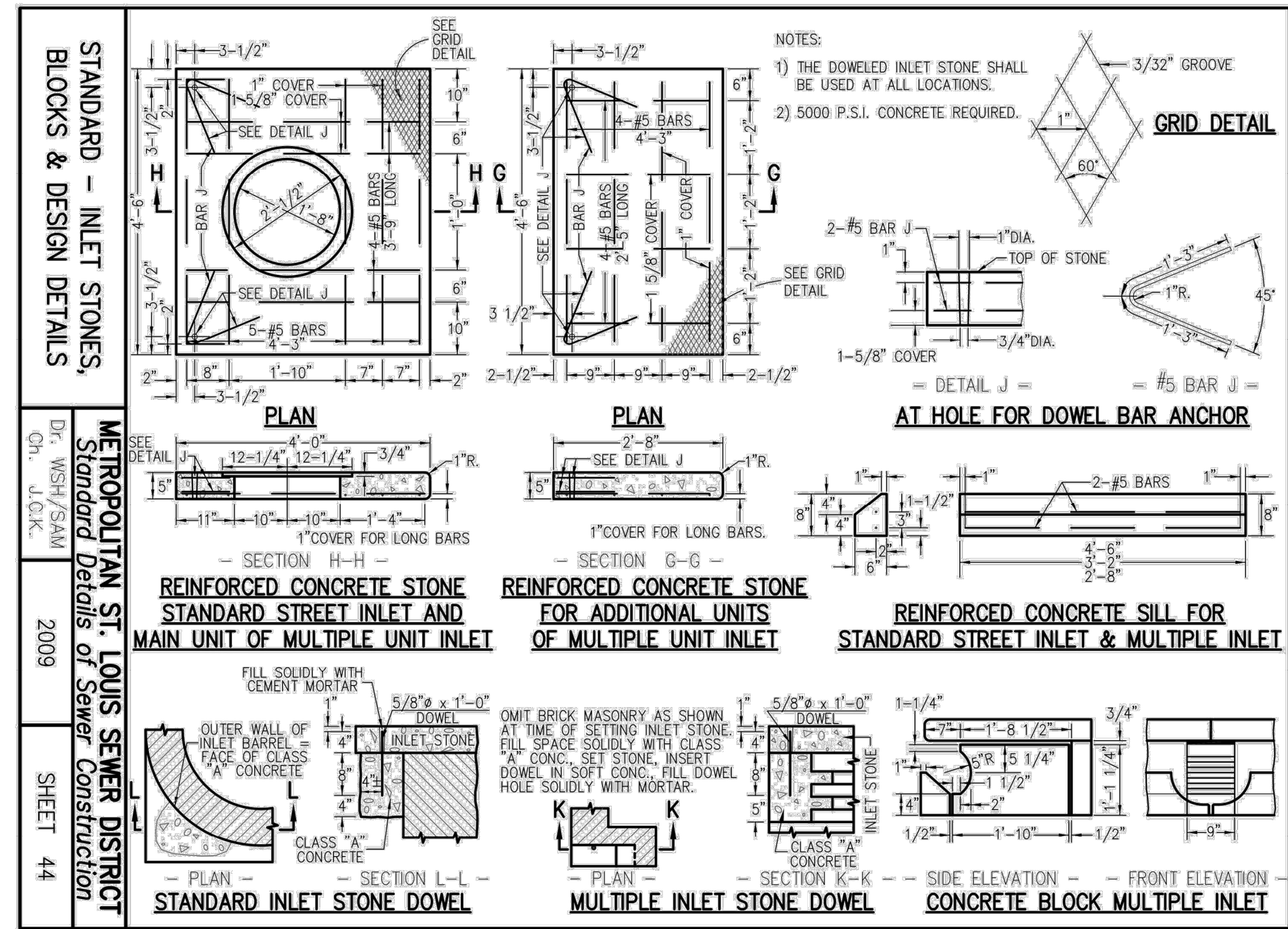


CAST IRON COVERS FOR
MANHOLES AND INLETS
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. RW/SAM
Ch. J.C.K. 2009 SHEET 53



PRECAST CONCRETE UNIT
FOR
4 WAY AREA INLET
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. DAB/SAM
Ch. J.C.K. 2009 SHEET 40

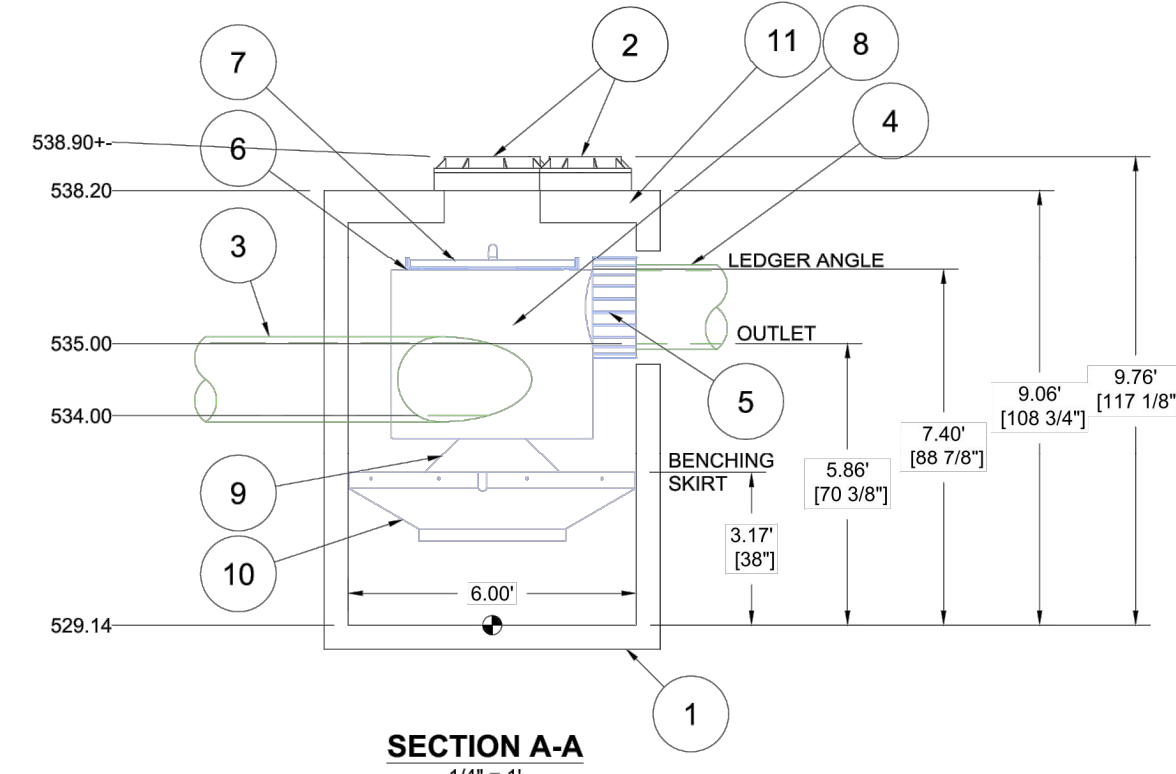
AREA INLET
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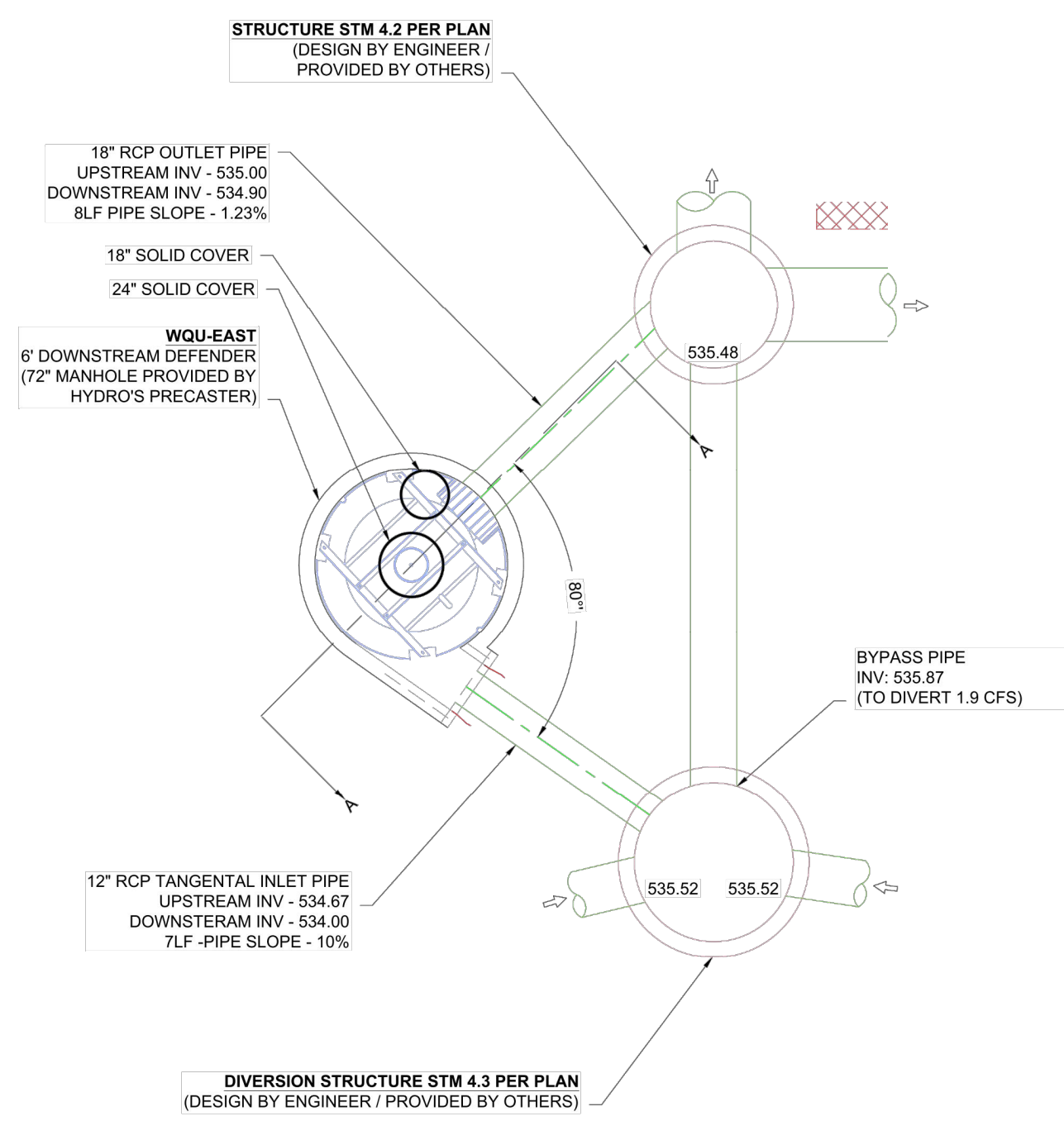
STANDARD - INLET STONES,
BLOCKS & DESIGN DETAILS
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. MS/SAM
Ch. J.C.K. 2009 SHEET 44

PARTS LIST: 6' DOWNSTREAM DEFENDER			
ITEM	SIZE (IN)	MATERIAL	DESCRIPTION
1	72	CONCRETE	I.D. PRECAST MANHOLE
2	18 & 24	-	FRAME & COVER
3	12	RCP	INLET PIPE (BY OTHERS)
4	18	RCP	OUTLET PIPE (BY OTHERS)
5	18	-	PIPE COUPLING (BY OTHERS)
6	-	-	LEDGER ANGLE
7	-	-	SUPPORT FRAME
8	-	-	DIP PLATE
9	-	-	CENTER SHAFT & CONE
10	-	-	BENCHING SKIRT
11	-	-	MATERIALS & LABOR TO ACHIEVE FINAL GRADE (BY OTHERS)

NOTES:
 *ENGINEER / CONTRACTOR TO CONFIRM PIPE MATERIALS.
 *ALL CONNECTION TO DOWNSTREAM DEFENDER TO BE A-LOK CONNECTIONS.



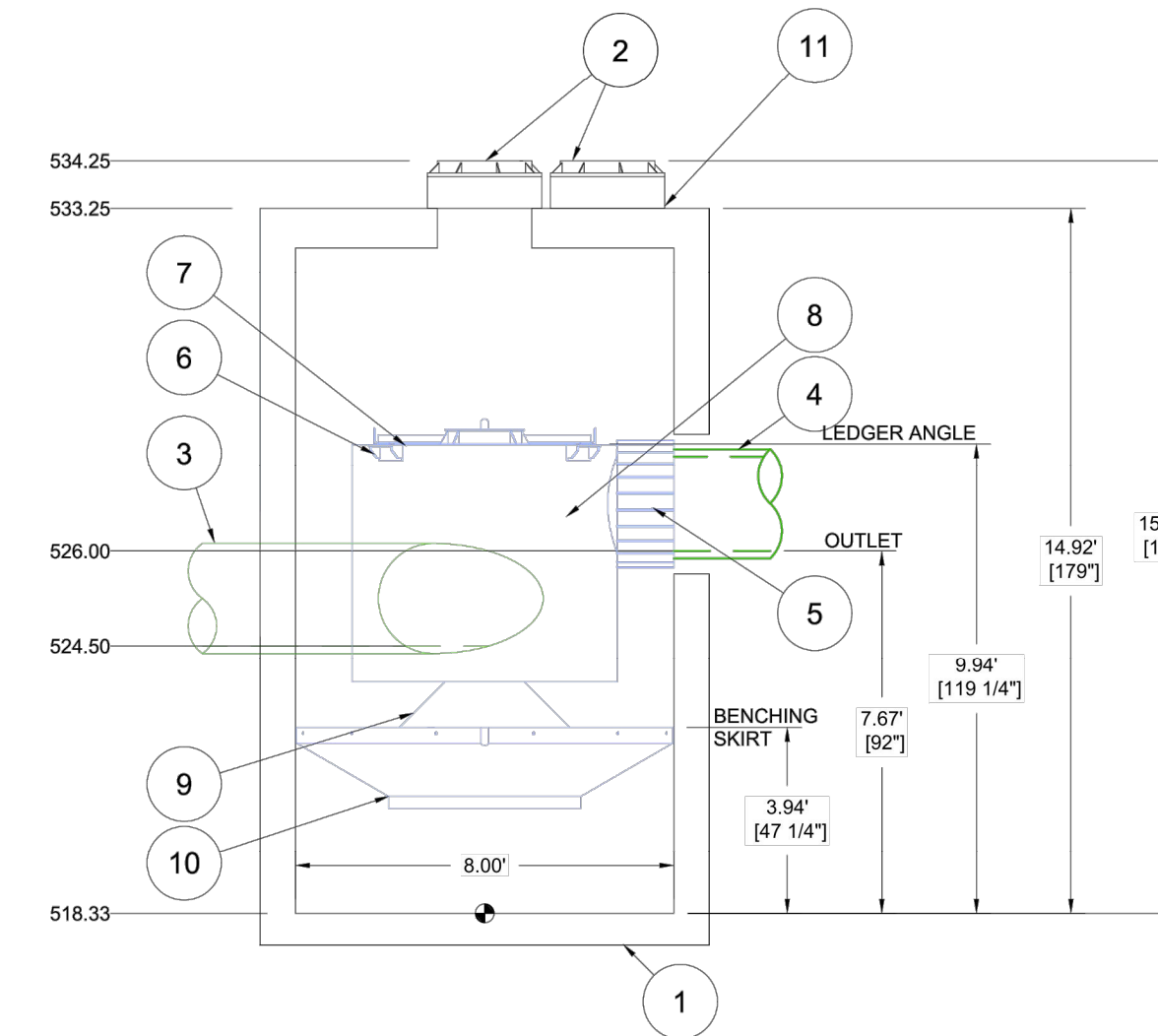
SECTION A-A
1/4" = 1"



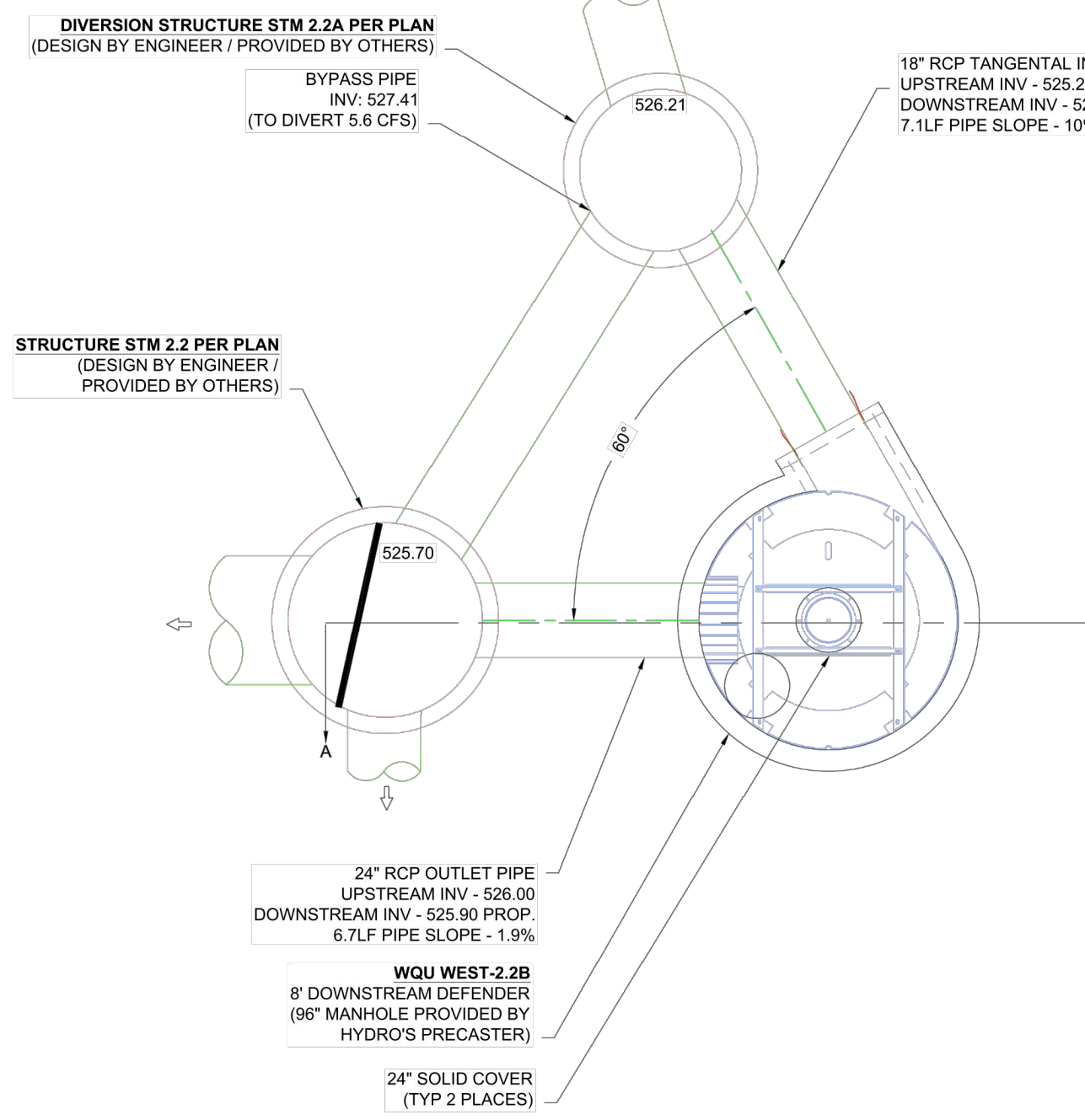
PLAN VIEW
1" = 5'

PARTS LIST: 8' DOWNSTREAM DEFENDER			
ITEM	SIZE (IN)	MATERIAL	DESCRIPTION
1	96	CONCRETE	I.D. PRECAST MANHOLE
2	24	-	FRAME & COVER
3	18	RCP	INLET PIPE (BY OTHERS)
4	24	RCP	OUTLET PIPE (BY OTHERS)
5	24	-	PIPE COUPLING (BY OTHERS)
6	-	-	LEDGER ANGLE
7	-	-	SUPPORT FRAME
8	-	-	DIP PLATE
9	-	-	CENTER SHAFT & CONE
10	-	-	BENCHING SKIRT
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NOTES:
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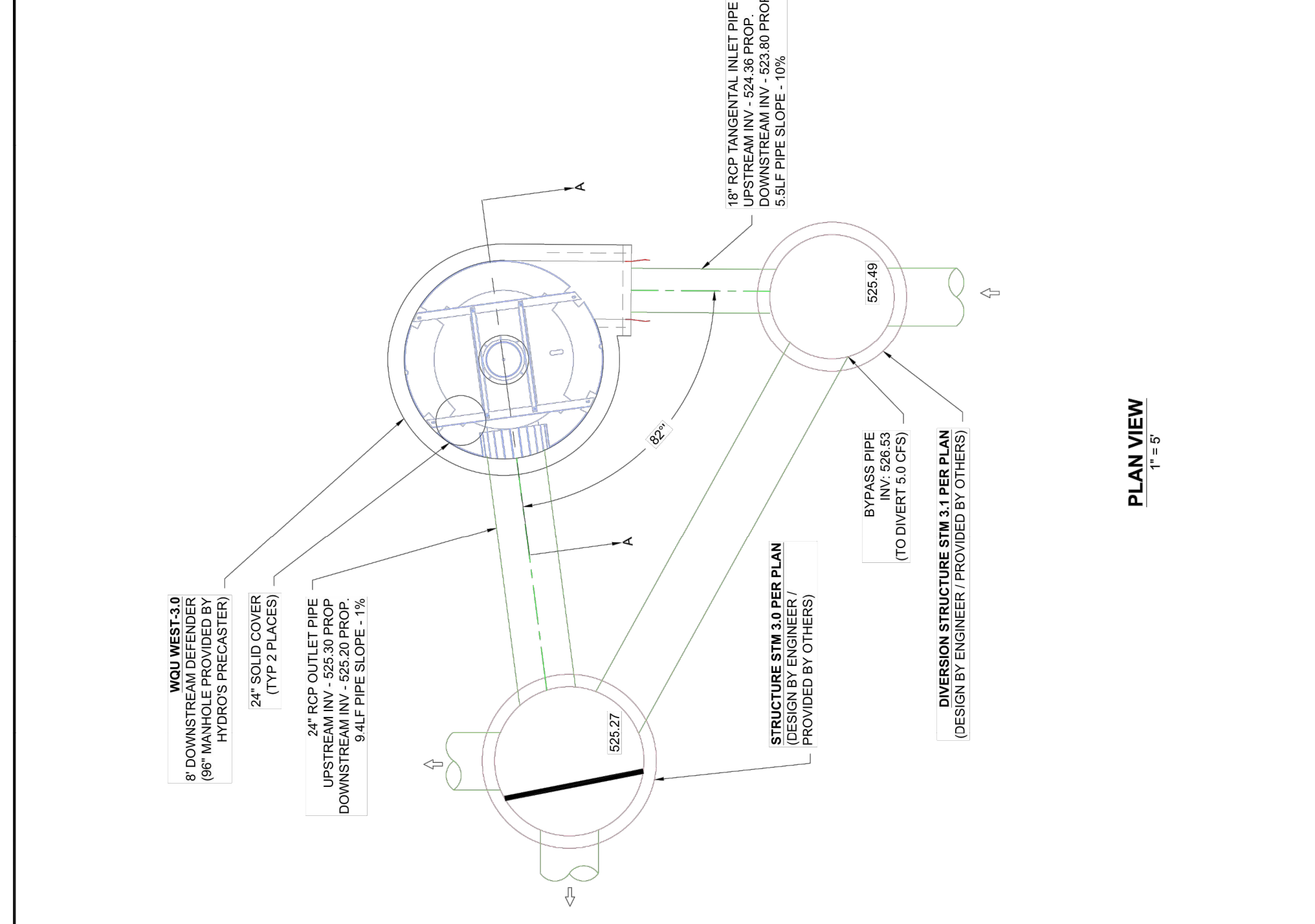
SECTION A-A
1/4" = 1"



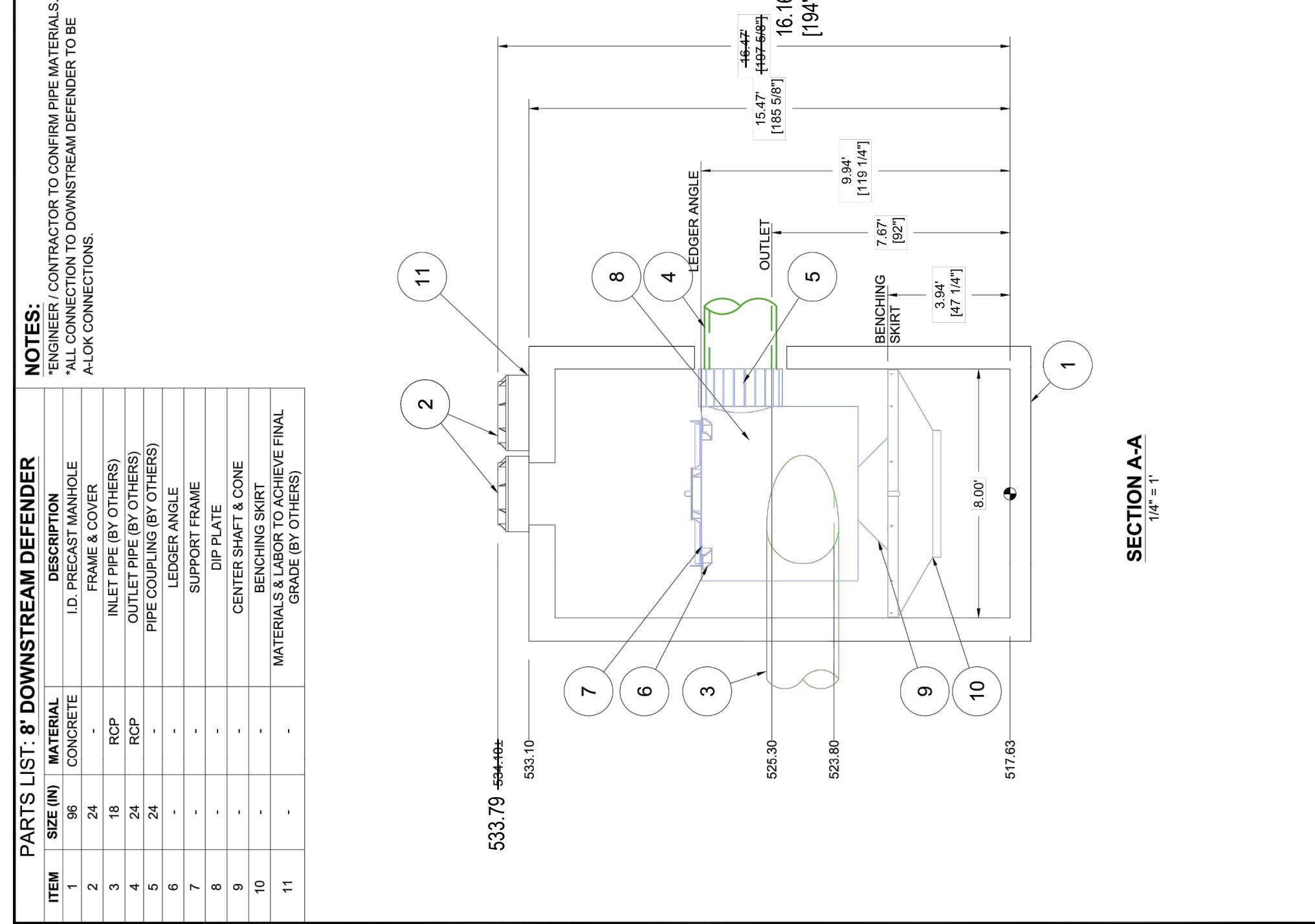
PLAN VIEW
1" = 5'

	MO NATIONAL GUARD BELLEFONTAINE NEIGHB. MO DATE: 08/02/22 DRAWN: GDL PROJECT #: 2207068 CHECKED: JPR
	4645 TREUKMAN BLVD HILLIARD, OH 43026
Hydro International <small>Hydro International is a registered service mark of Hydro International, Inc. All other marks are the property of their respective owners.</small>	6 SHEET OF 13

	MO NATIONAL GUARD BELLEFONTAINE NEIGHB. MO DATE: 08/02/22 DRAWN: GDL PROJECT #: 2207068 CHECKED: JPR
	4645 TREUKMAN BLVD HILLIARD, OH 43026
Hydro International <small>Hydro International is a registered service mark of Hydro International, Inc. All other marks are the property of their respective owners.</small>	7 OF 13



PLAN VIEW
1" = 5'

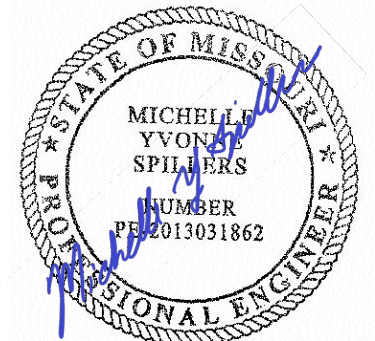


SECTION A-A
1/4" = 1"

PARTS LIST: 8' DOWNSTREAM DEFENDER			
ITEM	SIZE (IN)	MATERIAL	DESCRIPTION
1	96	CONCRETE	I.D. PRECAST MANHOLE
2	24	-	FRAME & COVER
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5	24	-	PIPE COUPLING (BY OTHERS)
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NOTES:
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 *ALL CONNECTION TO DOWNSTREAM DEFENDER TO BE A-LOK CONNECTIONS.

STATE OF MISSOURI
 MICHAEL L. PARSON,
 GOVERNOR



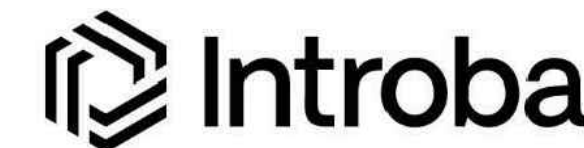
DATE: 05/03/2024
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PROJECT # T2150-01
 SITE # 6322
 FACILITY # 8136322001

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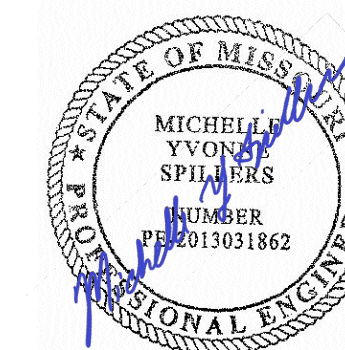
CAD DWG FILE: _____
 DRAWN BY: PJM
 CHECKED BY: PHJ
 DESIGNED BY: MYS

SHEET TITLE:
Drainage Details

SHEET NUMBER:

C411

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 05/03/2024



DATE: 05/03/2024
EXPIRES: 12/31/2025



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PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

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DATE: _____
ISSUE DATE: 05/03/2024

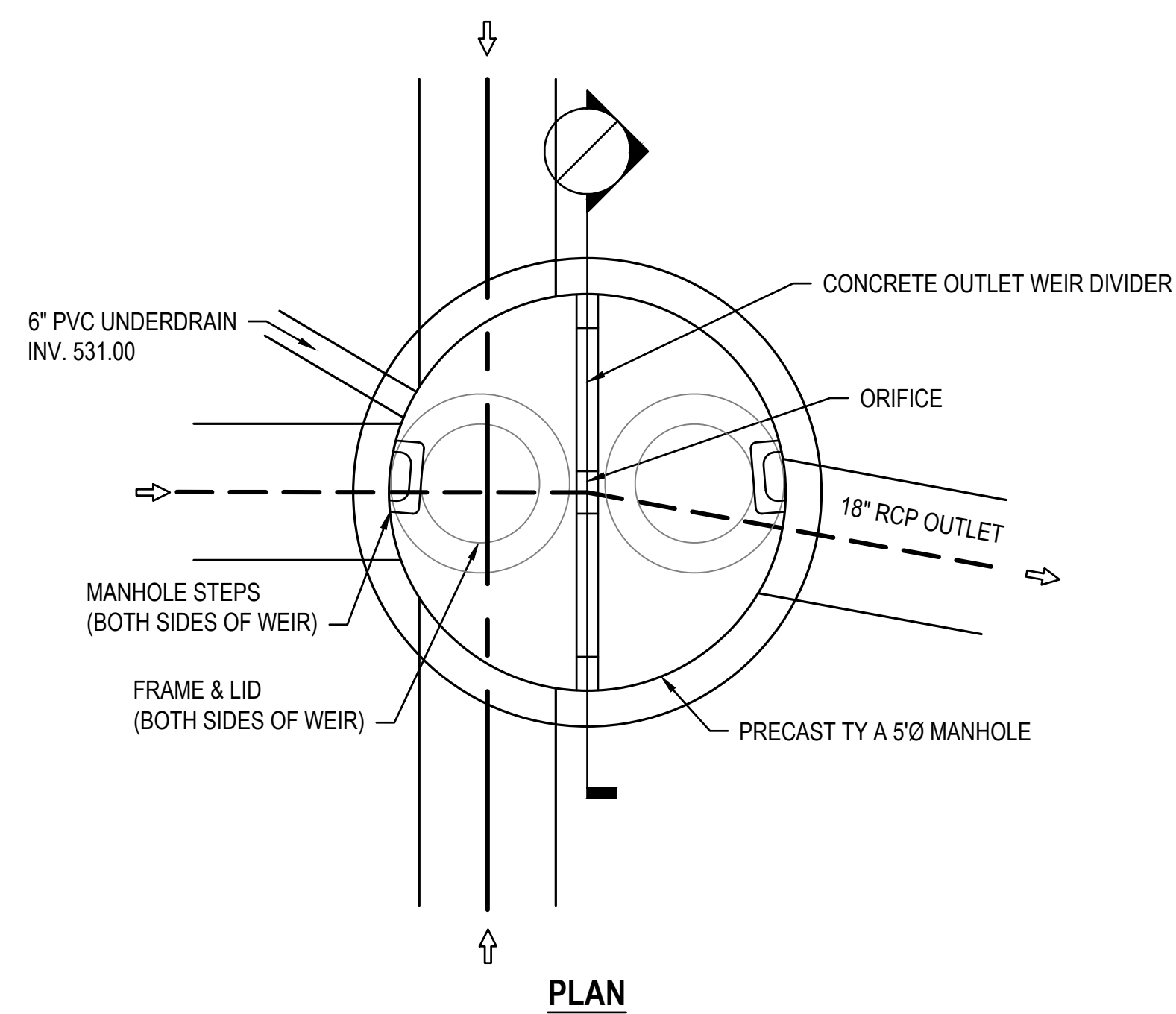
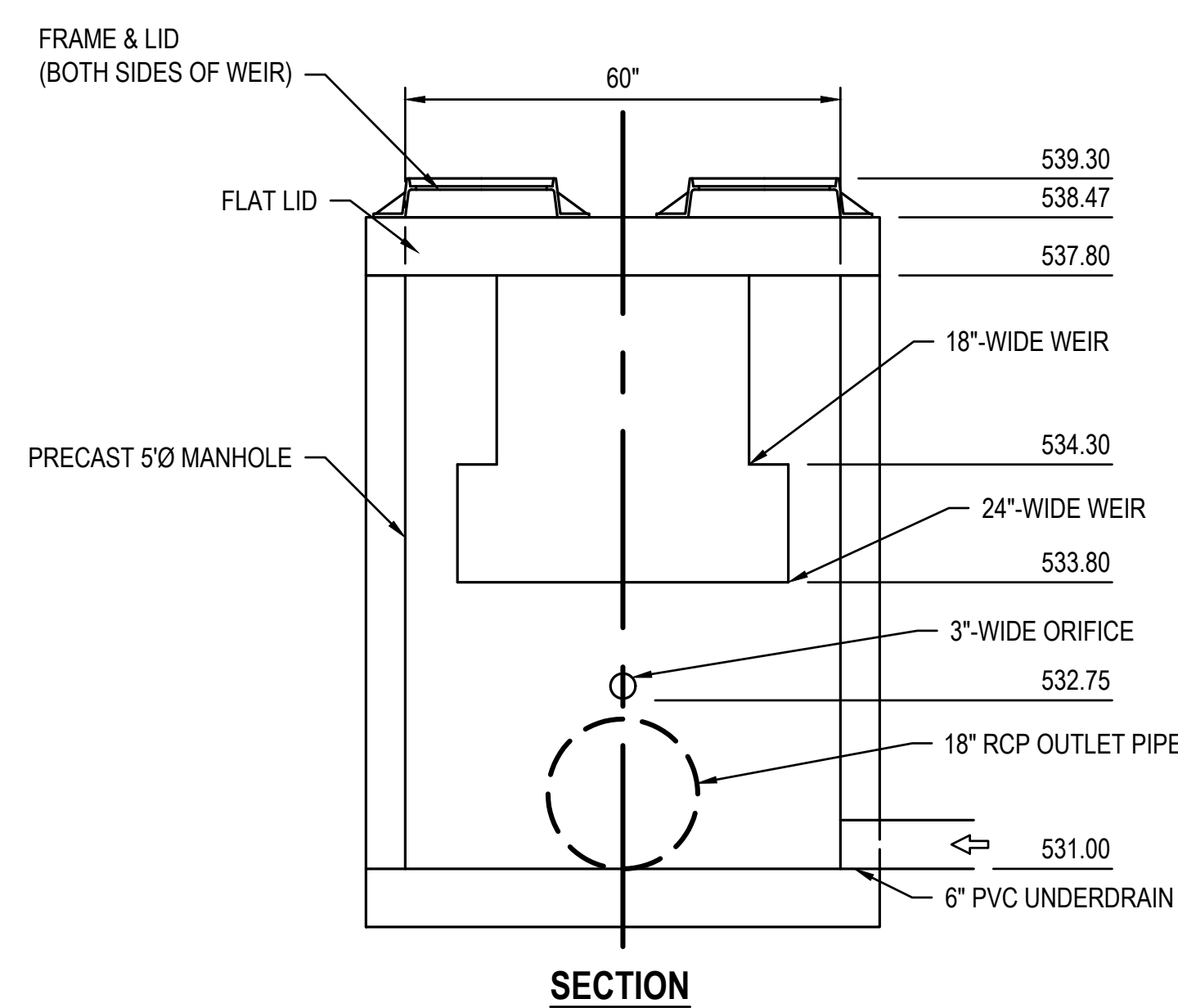
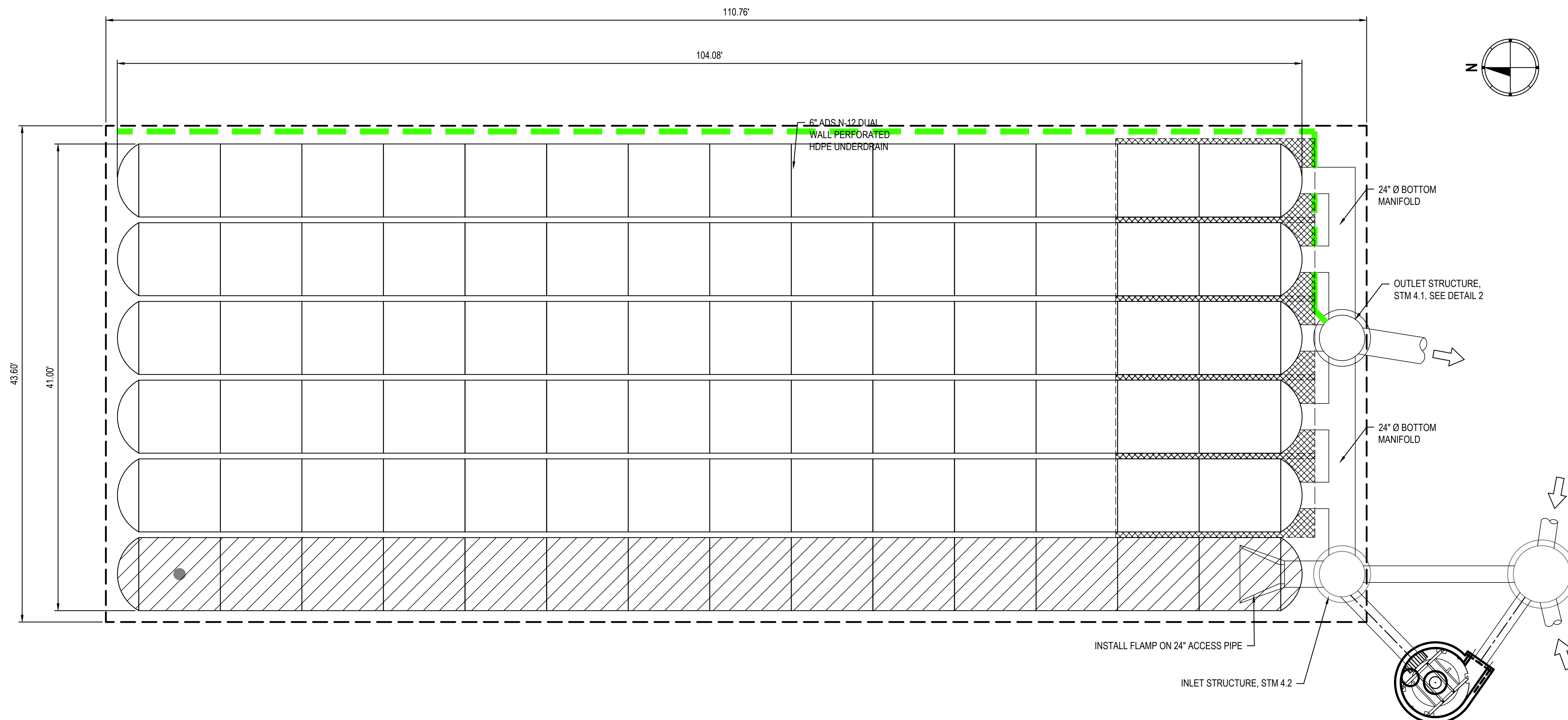
CAD DWG FILE: _____
DRAWN BY: PJM
CHECKED BY: PHJ
DESIGNED BY: MYS

SHEET TITLE:
**Detention Basin
Detail - East Basin**

SHEET NUMBER:

C412

43 OF 272 SHEETS
05/03/2024



- LEGEND**
- ISOLATOR ROW
 - PLACE MINIMUM 12.50' OF ADS GEOSYNTHETICS 315WTK WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS
 - BED LIMITS
- NOTES**
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD AT NO ADDITIONAL COST.

2 **OUTLET STRUCTURE 4.1 DETAIL**
SCALE: NO SCALE

PROPOSED LAYOUT - EAST BED

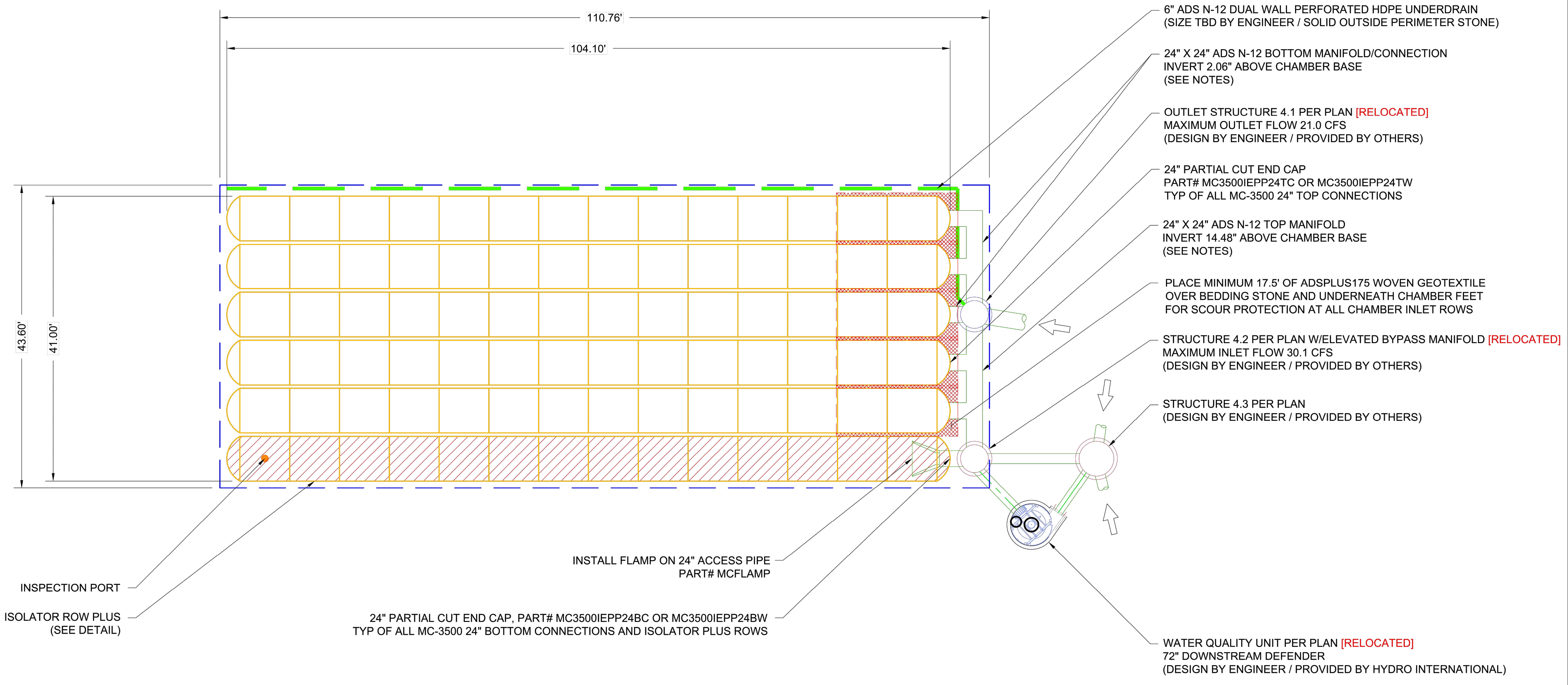
84	STORMTECH MC-3500 CHAMBERS
12	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
14,341	INSTALLED SYSTEM VOLUME (CF) BELOW ELEVATION 536.50 (PERIMETER STONE INCLUDED)
4829	SYSTEM AREA (ft ²)
309	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS - EAST BED

544.50	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
538.50	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
538.00	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
538.00	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
538.00	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
537.50	TOP OF STONE
536.50	TOP OF MC-3500 CHAMBER
533.96	24" TOP MANIFOLD INVERT
532.92	24" ISOLATOR ROW PLUS CONNECTION INVERT
532.92	24" BOTTOM MANIFOLD/CONNECTION INVERT
532.75	BOTTOM OF MC-3500 CHAMBER
532.00	UNDERDRAIN INVERT
532.00	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.



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DATE: 08/02/22 DRAWN: GDL
 PROJECT #: S267068 CHECKED: JPR

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3 SHEET
 OF 13

STATE OF MISSOURI
 MICHAEL L. PARSON,
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DATE: 05/03/2024
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PROJECT # T2150-01
 SITE # ~~XXXX~~
 FACILITY # ~~XXXXXXXXXX~~

REVISION:
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ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
 DRAWN BY: PJM
 CHECKED BY: PHJ
 DESIGNED BY: MYS

SHEET TITLE:
 Detention Basin
 Detail - East Basin

SHEET NUMBER:

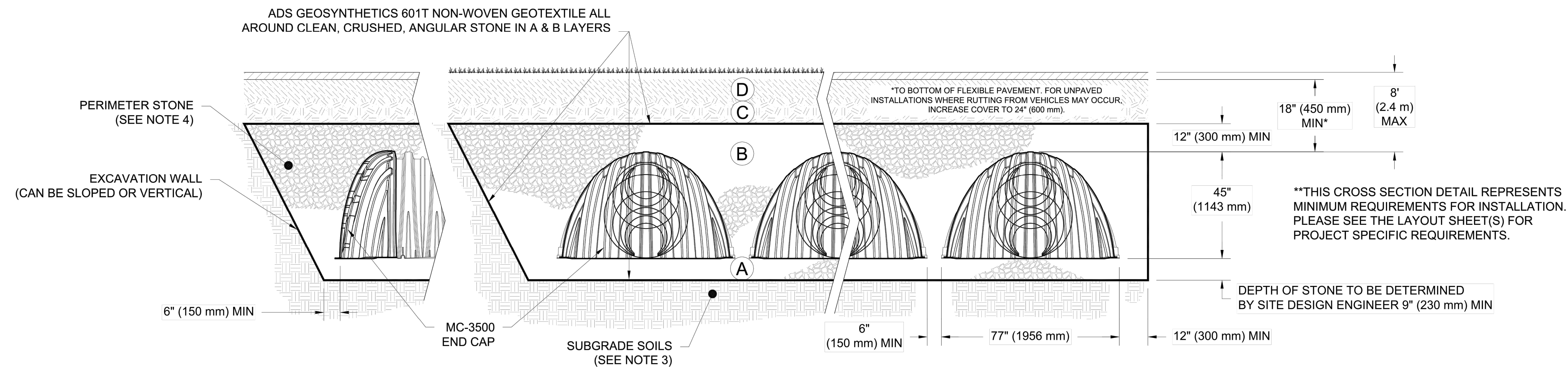
C413

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 18" (450 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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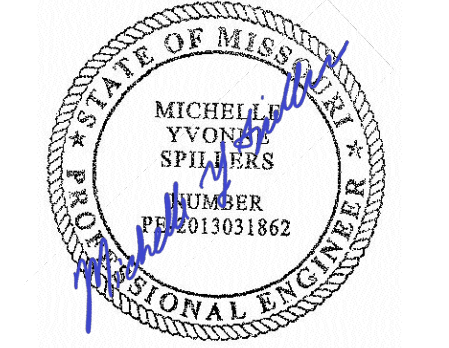
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8
SHEET

OF
13

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SITE # ~~6322X~~
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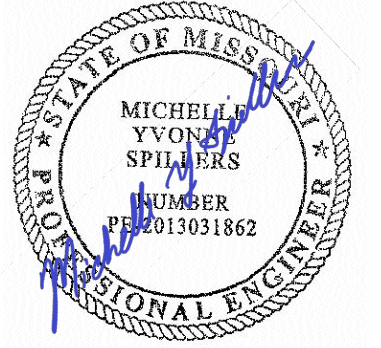
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DRAWN BY: PJM
CHECKED BY: PHJ
DESIGNED BY: MYS

SHEET TITLE:
Detention Basin
Detail - East Basin

SHEET NUMBER:

C414

45 OF 272 SHEETS
05/03/2024



DATE: 05/03/2024
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SHEET TITLE:
Detention Basin
Detail - East Basin

SHEET NUMBER:

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46 OF 272 SHEETS
05/03/2024

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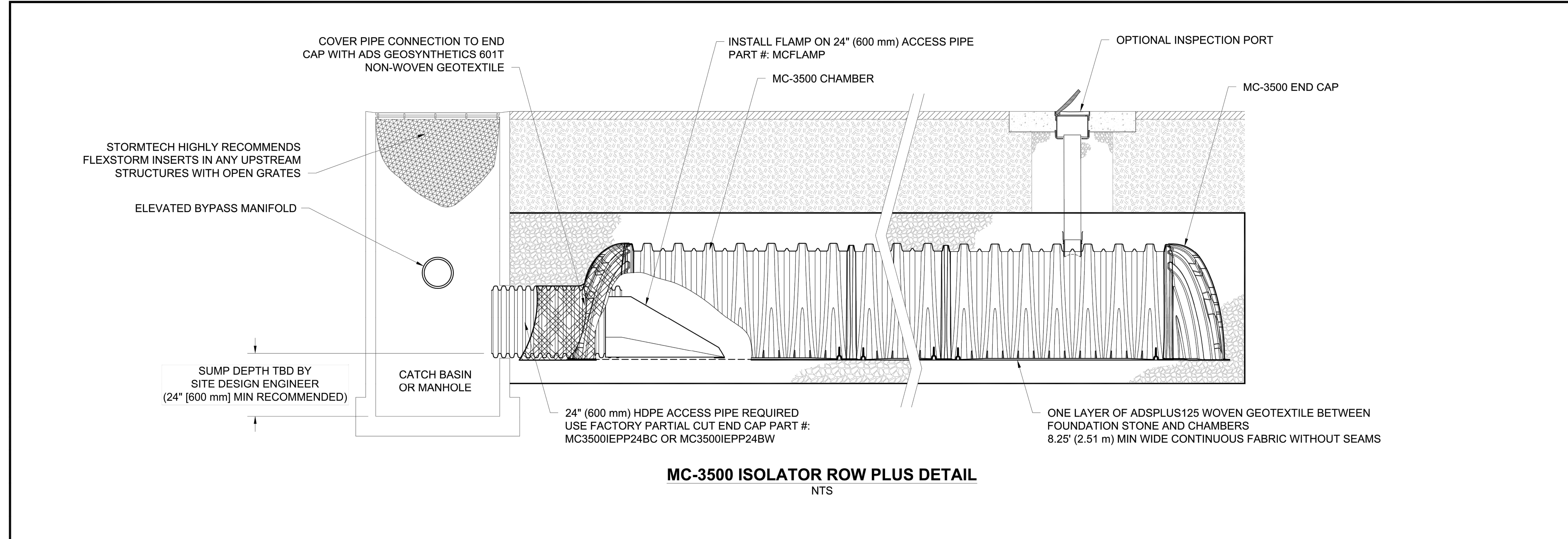
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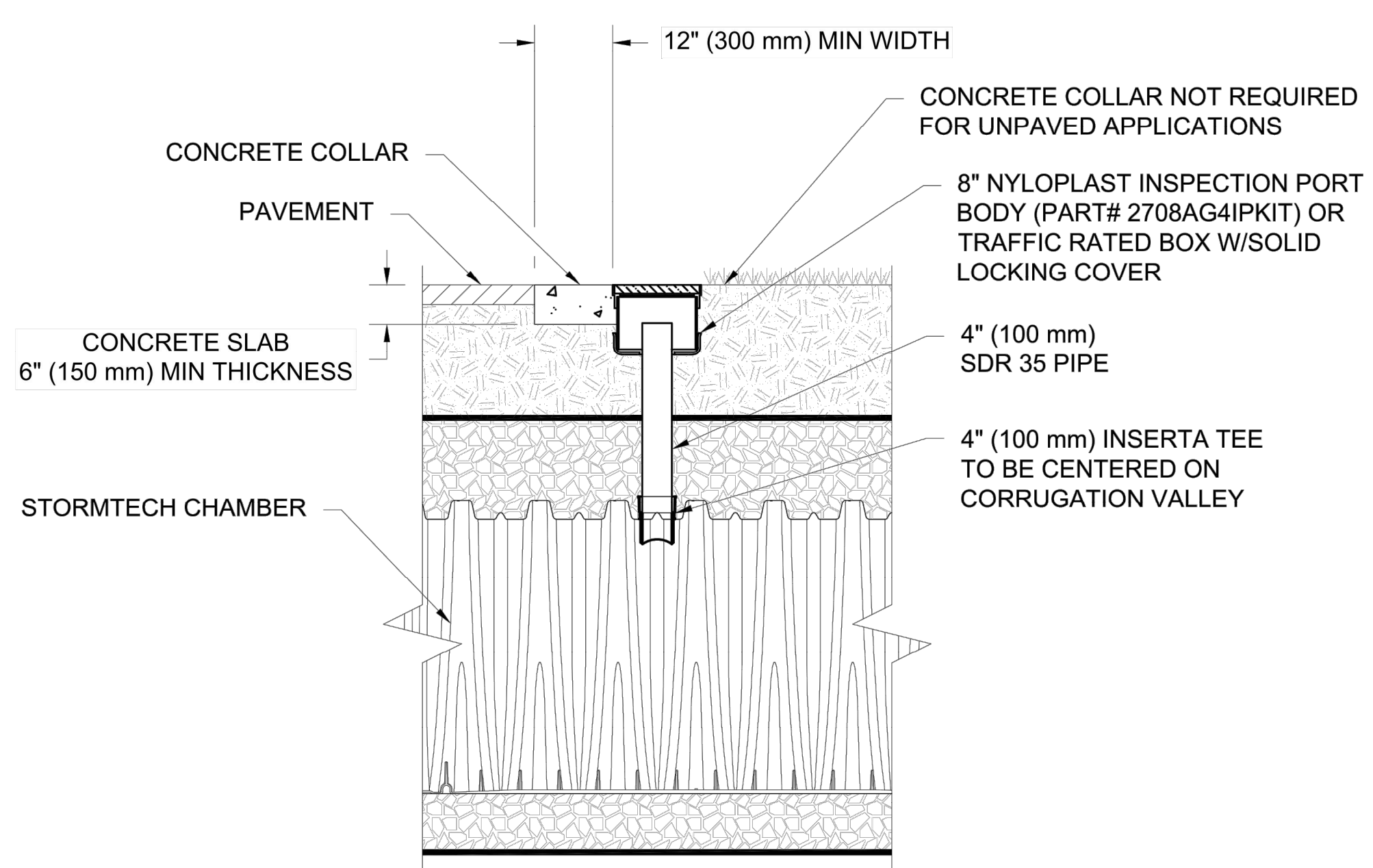
MC-3500 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
 - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - B. ALL ISOLATOR PLUS ROWS
 - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

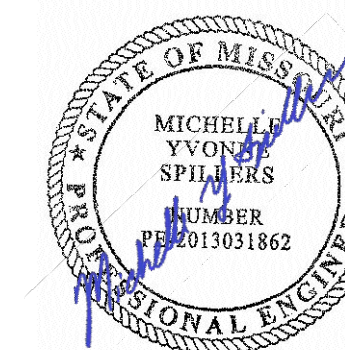
NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4" PVC INSPECTION PORT DETAIL
(MC SERIES CHAMBER)
NTS



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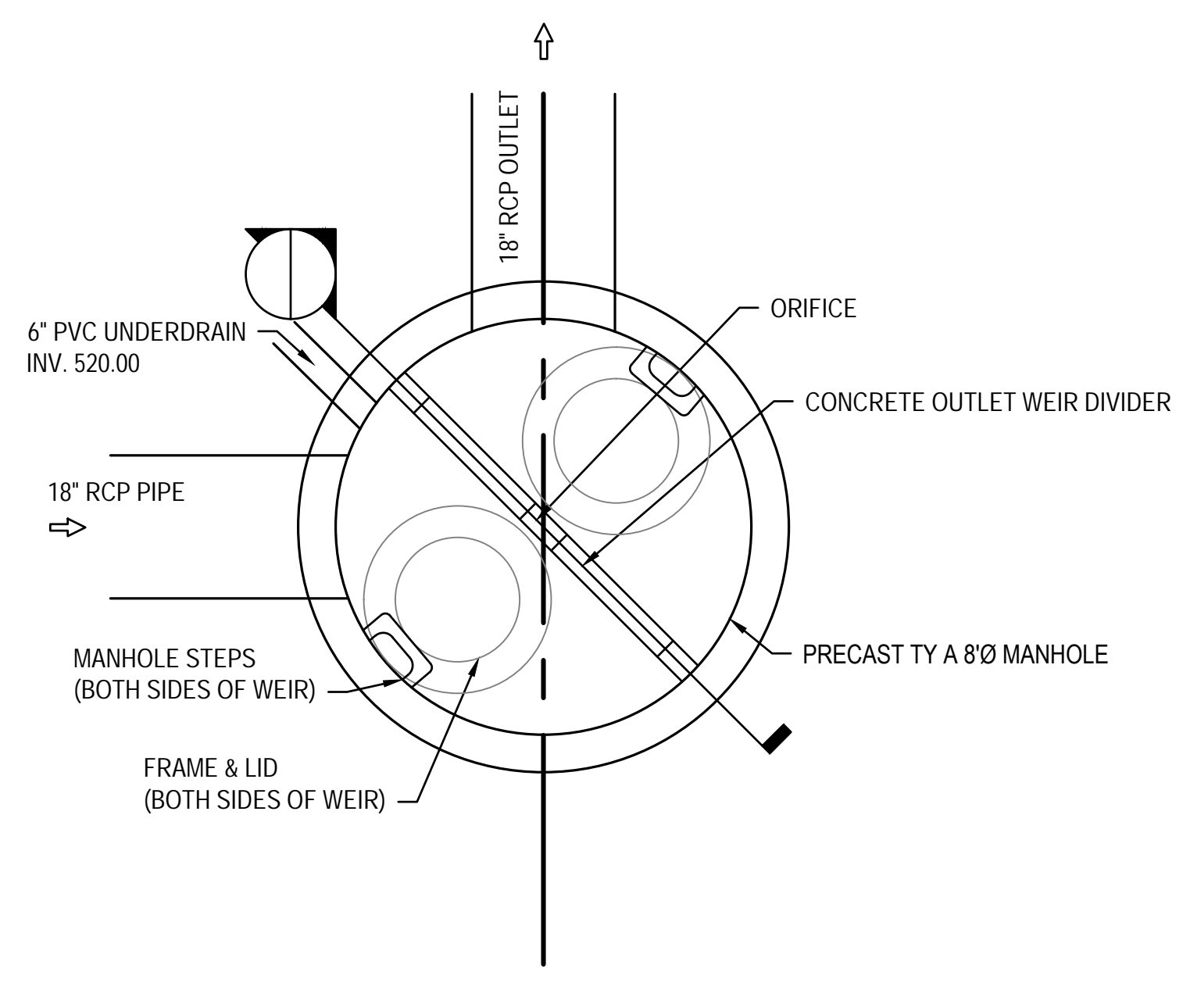
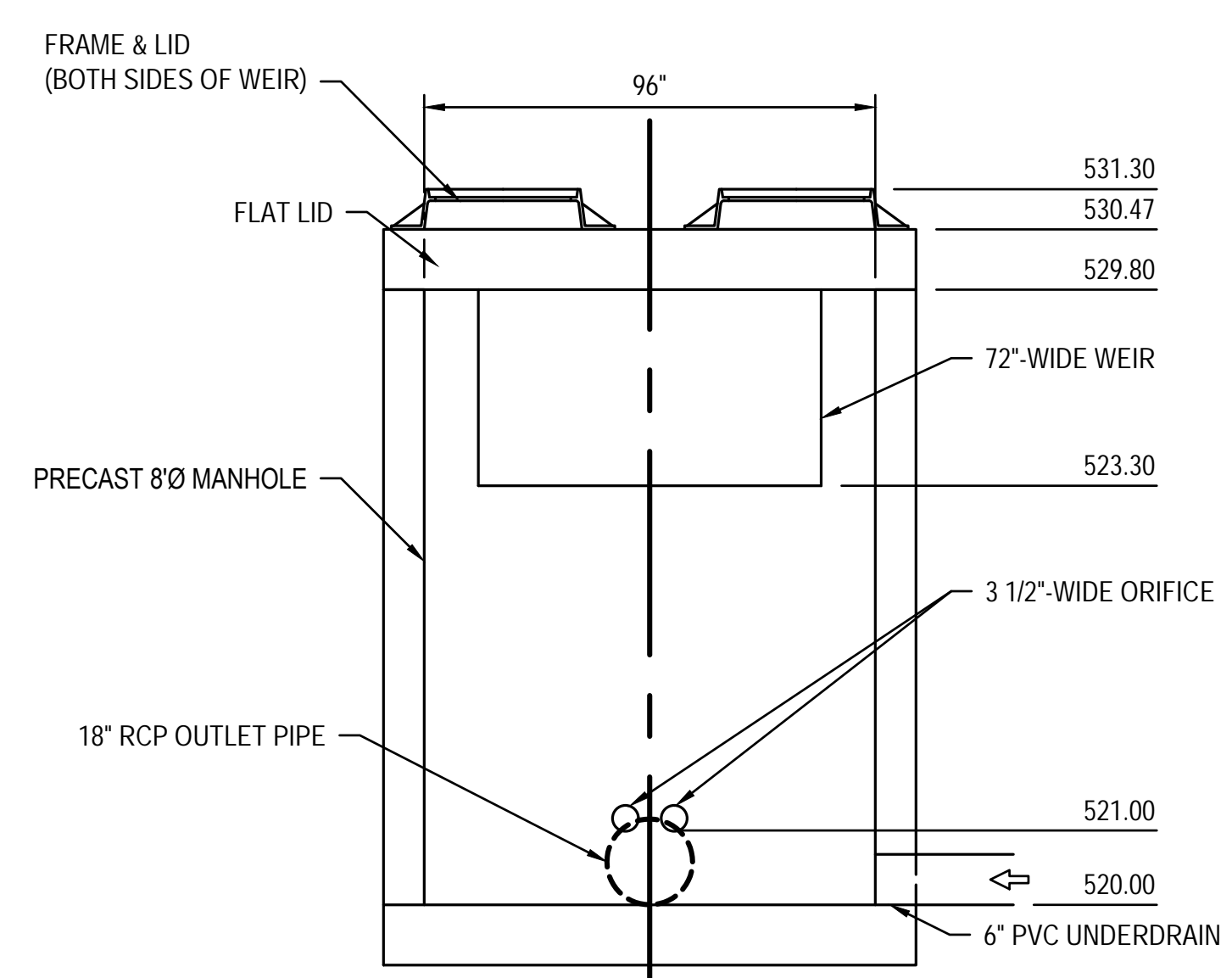
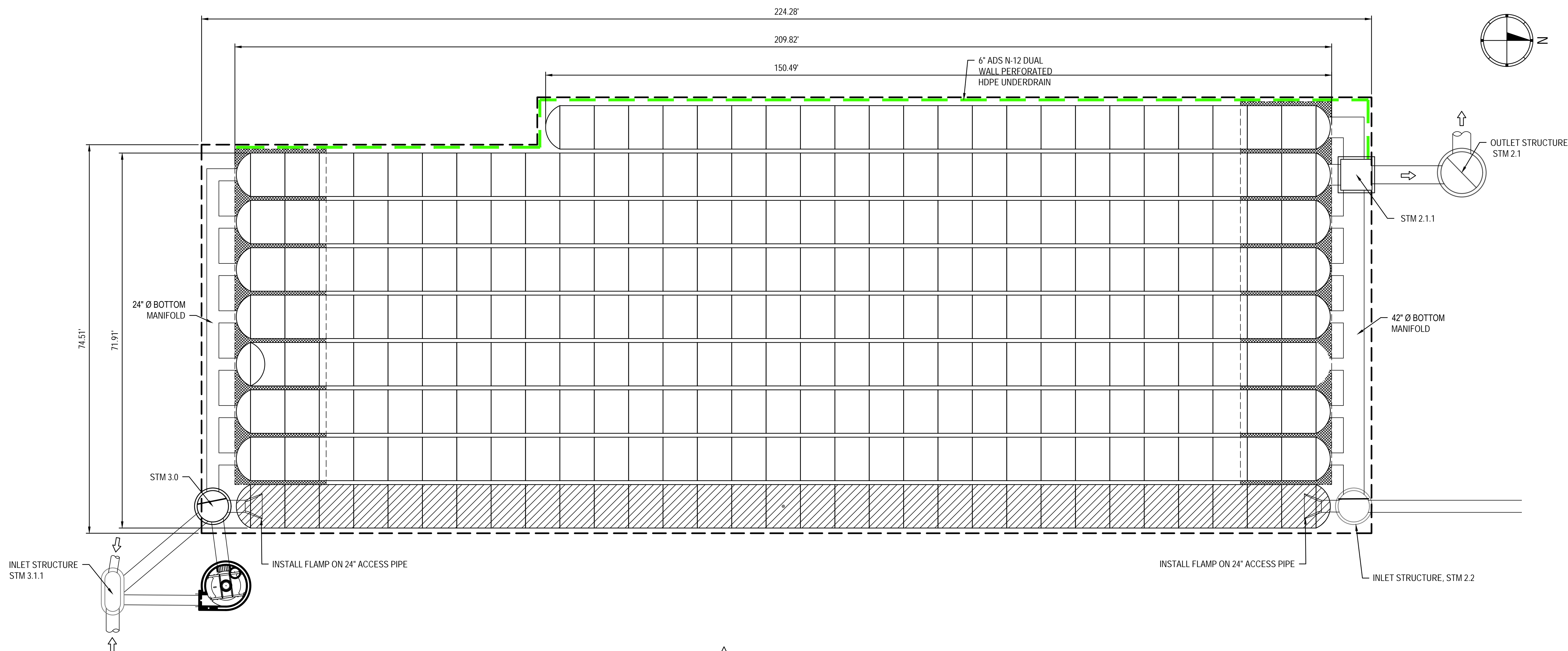
SHEET TITLE:
**Detention Basin
Detail - West Basin**

SHEET NUMBER:

C416

47 OF 272 SHEETS
05/03/2024

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4



- LEGEND**
- ISOLATOR ROW
 - PLACE MINIMUM 12.50' OF ADS GEOSYNTHETICS 315WTK WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS
 - BED LIMITS

- NOTES**
1. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD AT NO ADDITIONAL COST.

2 **OUTLET STRUCTURE 2.1 DETAIL**
SCALE: NO SCALE

PROPOSED LAYOUT - WEST BED

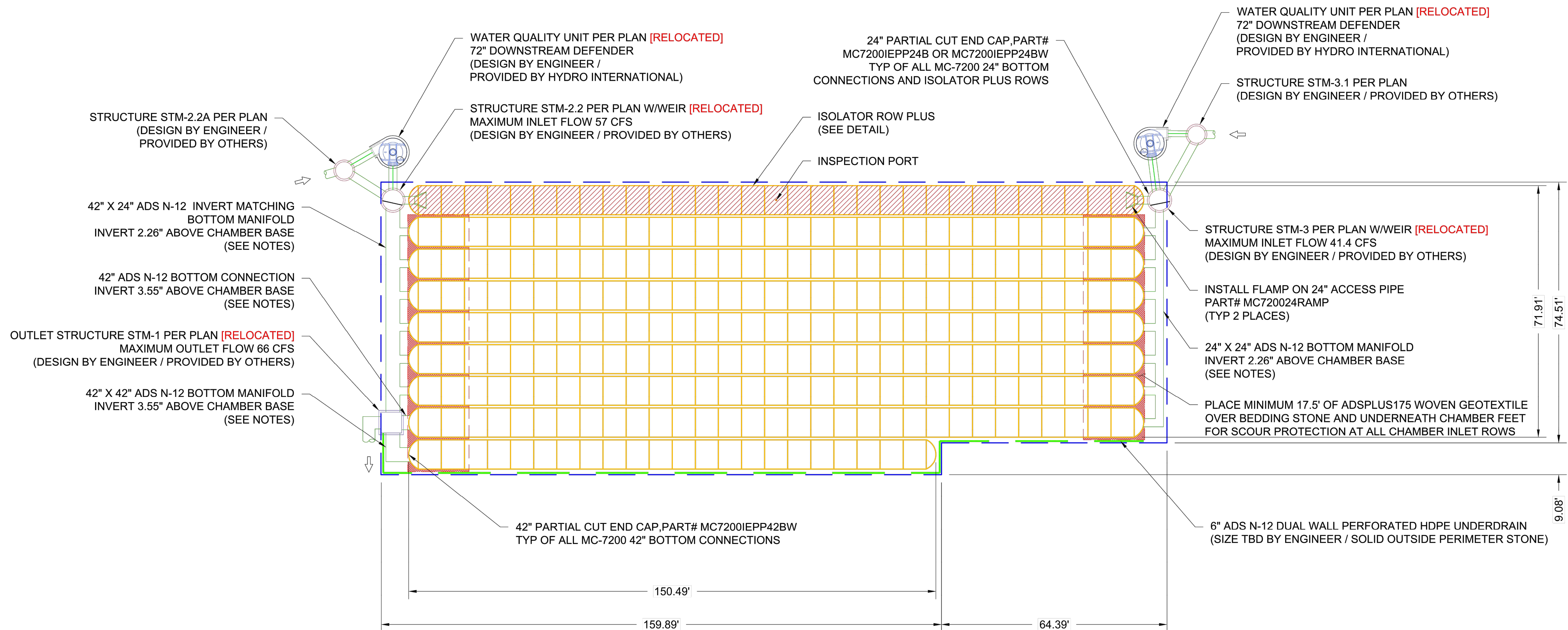
270	STORMTECH MC-7200 CHAMBERS
18	STORMTECH MC-7200 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
70,721	INSTALLED SYSTEM VOLUME (CF) BELOW ELEVATION 526.00 (PERIMETER STONE INCLUDED)
18173	SYSTEM AREA (ft ²)
616	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS - WEST BED

533.00	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
528.50	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
528.00	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
528.00	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
528.00	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
527.00	TOP OF STONE
526.00	TOP OF MC-7200 CHAMBER
521.27	42" BOTTOM CONNECTION
521.19	24" ISOLATOR ROW PLUS CONNECTION INVERT
521.19	24" BOTTOM MANIFOLD INVERT
521.19	42" X 24" BOTTOM MANIFOLD INVERT
521.00	BOTTOM OF MC-7200 CHAMBER
520.25	UNDERDRAIN INVERT
520.25	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
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03/29/24	DRWN
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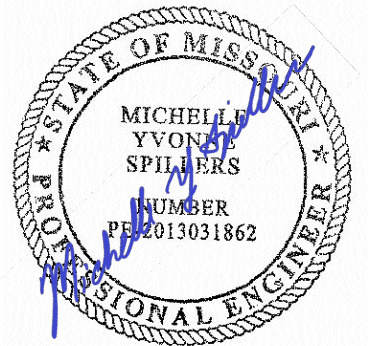
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STATE OF MISSOURI
MICHAEL L. PARSON,
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10625 LEWIS & CLARK
BLVD, ST. LOUIS, MO
63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION:
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DATE:

ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: PJM
CHECKED BY: PHJ
DESIGNED BY: MYS

SHEET TITLE:
Detention Basin
Detail - West Basin

SHEET NUMBER:

C417

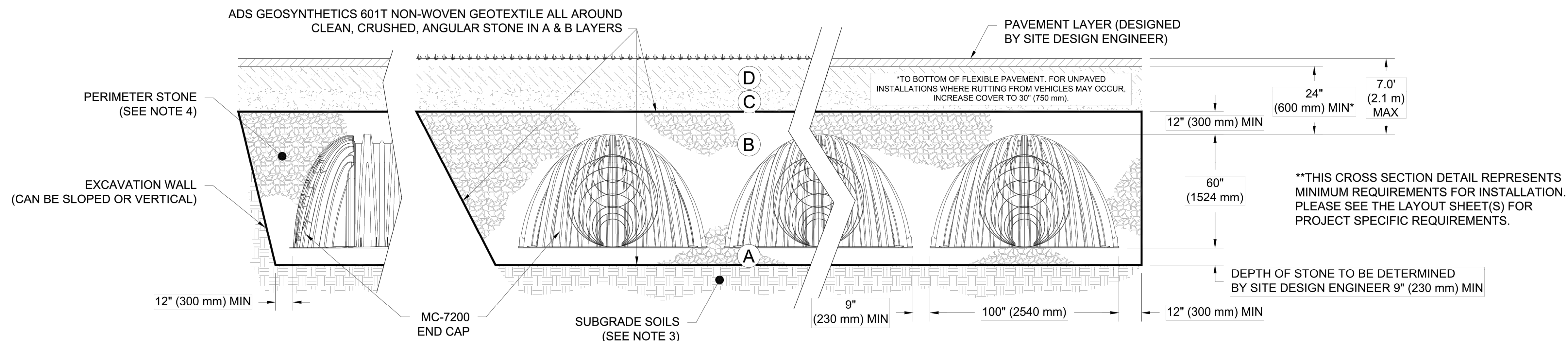
48 OF 272 SHEETS
05/03/2024

ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

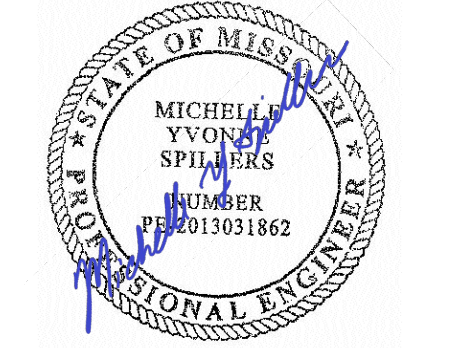


NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
- MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT². AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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9 SHEET OF 13		

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MICHAEL L. PARSON,
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DATE: 05/03/2024
EXPIRES: 12/31/2025



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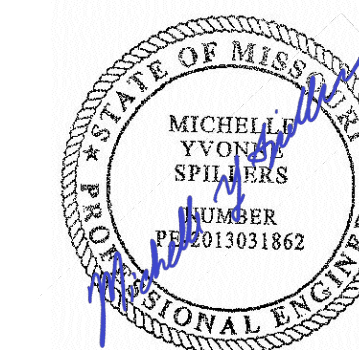
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SHEET TITLE:
Detention Basin
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49 OF 272 SHEETS
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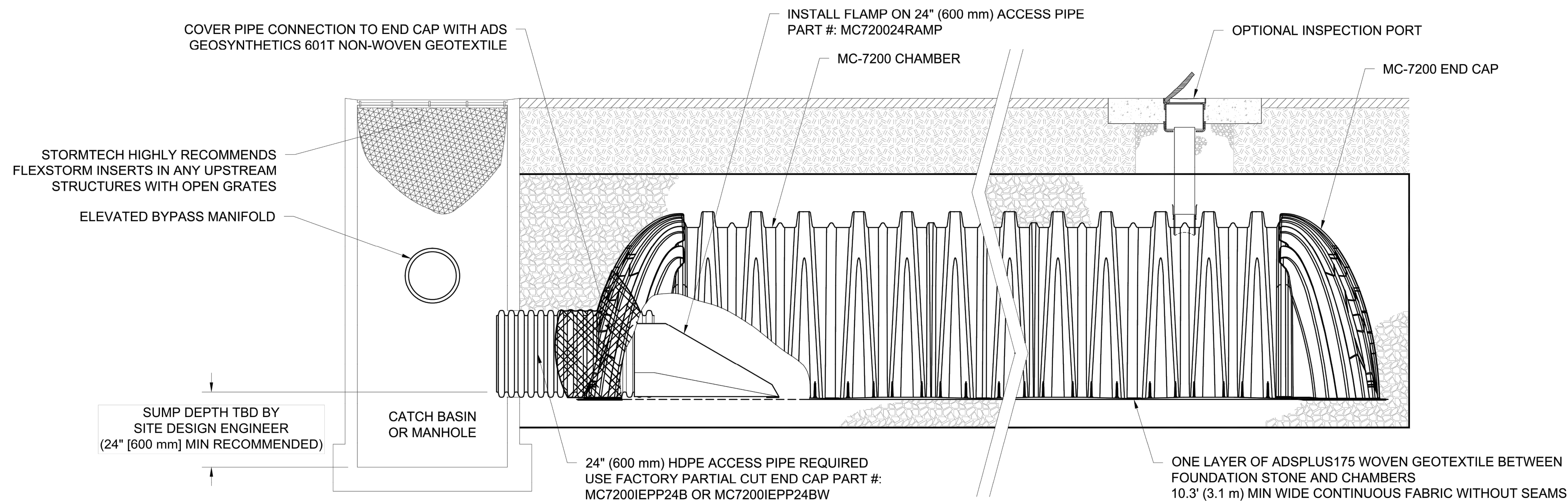
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C419

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05/03/2024

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REVISED PER MARKUP	DESCRIPTION	DATE	DRWN
08/28/24	SLV	08/28/24	CHKO
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11 SHEET		13 OF	

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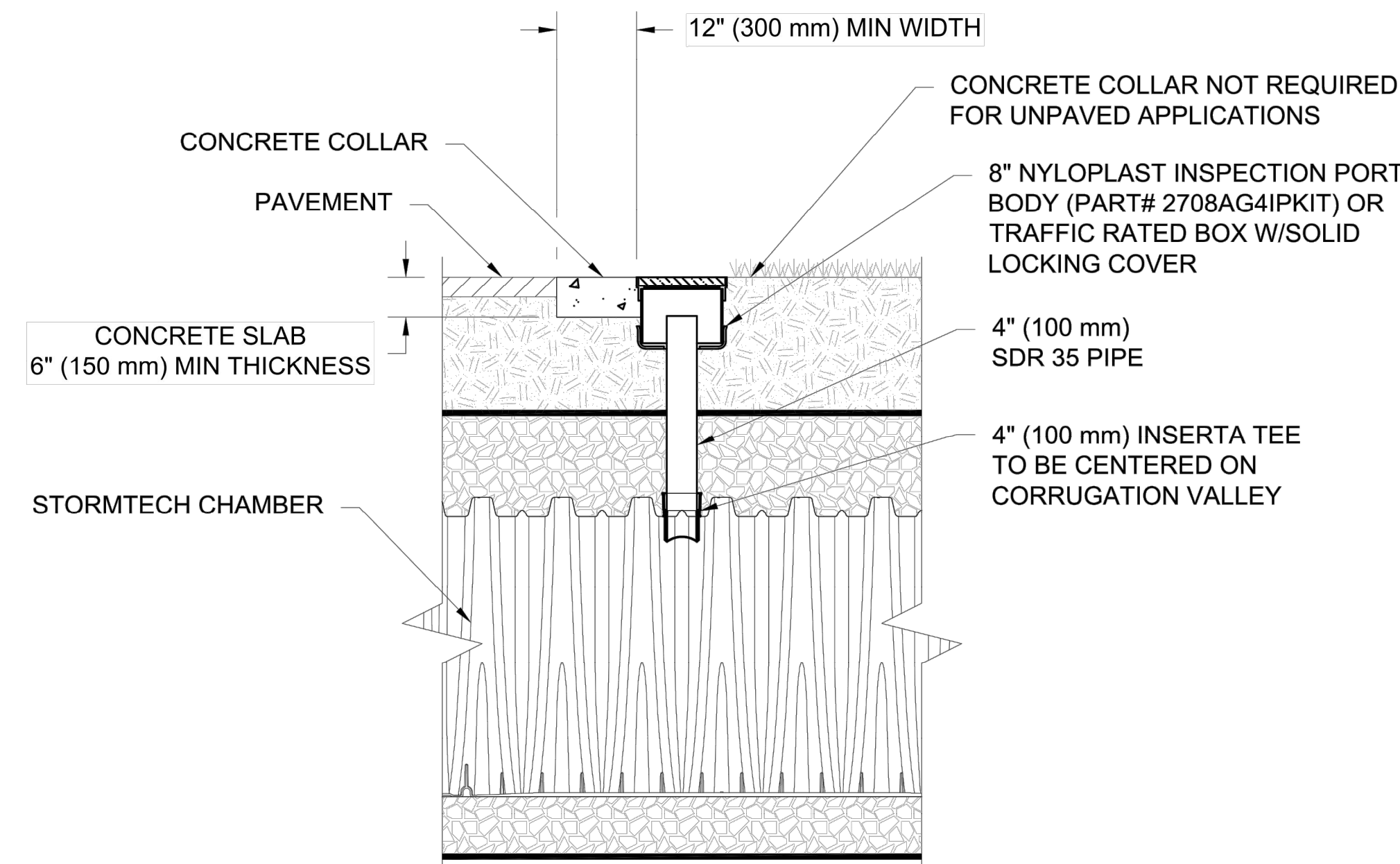
MC-7200 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
 - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - B. ALL ISOLATOR PLUS ROWS
 - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

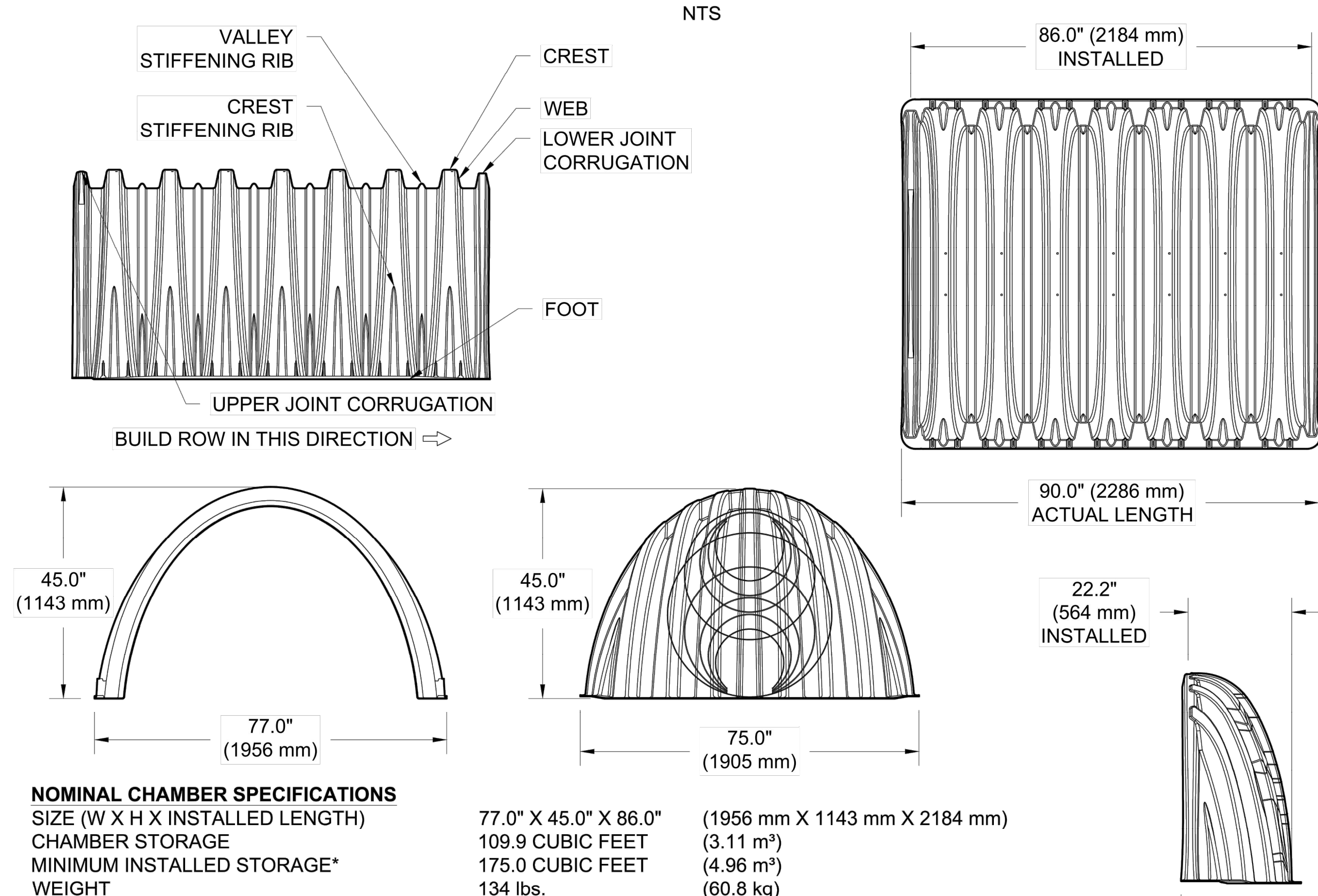
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4" PVC INSPECTION PORT DETAIL
(MC SERIES CHAMBER)
NTS

MC-3500 TECHNICAL SPECIFICATION



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m ³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m ³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m ³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m ³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" (152 mm) STONE BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

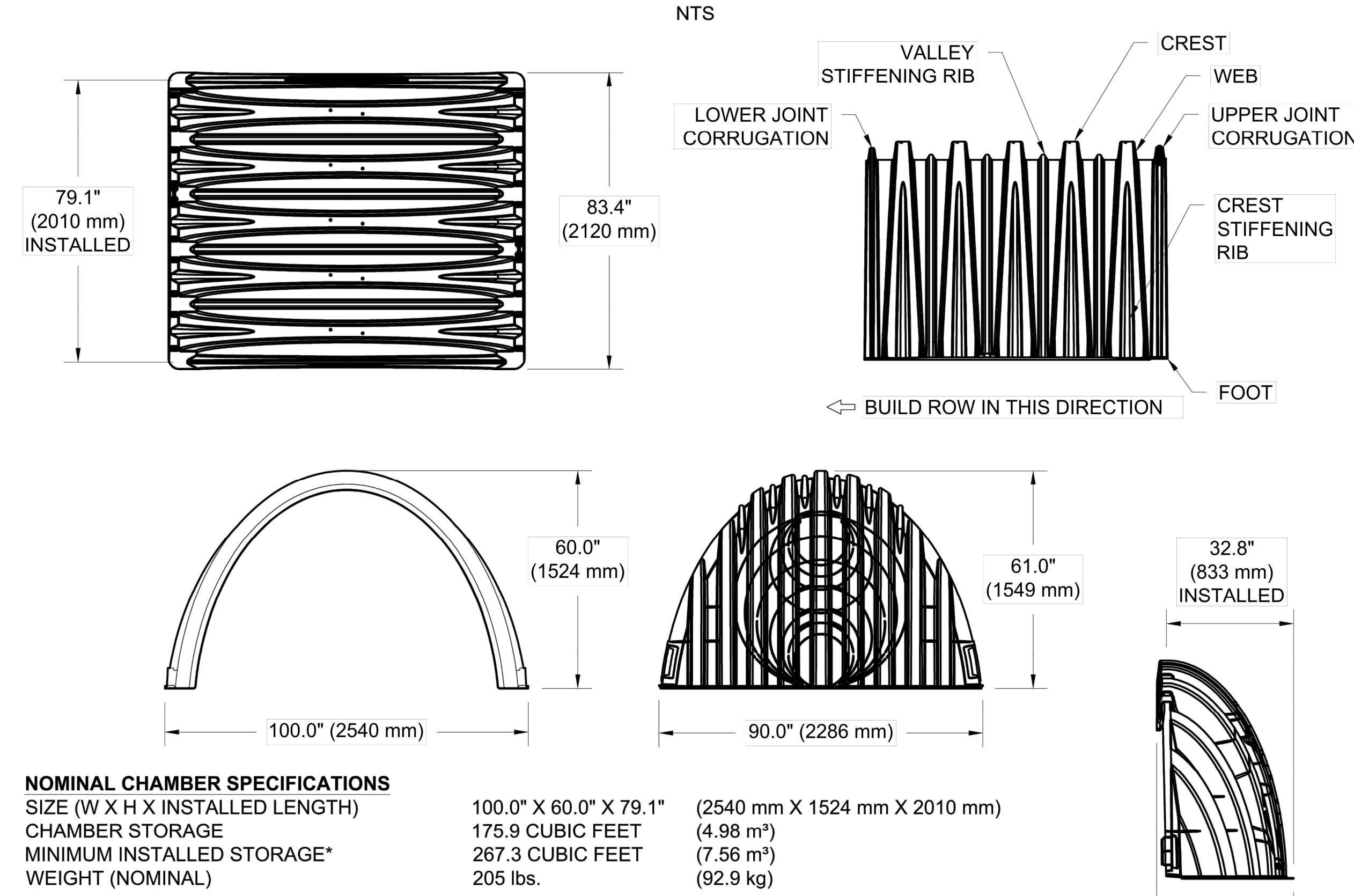
PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
 END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"
 END CAPS WITH A WELDED CROWN PLATE END WITH "C"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP24TW	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

MC-7200 TECHNICAL SPECIFICATION



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	100.0" X 60.0" X 79.1"	(2540 mm X 1524 mm X 2010 mm)
CHAMBER STORAGE	175.9 CUBIC FEET	(4.98 m ³)
MINIMUM INSTALLED STORAGE*	267.3 CUBIC FEET	(7.56 m ³)
WEIGHT (NOMINAL)	205 lbs.	(92.9 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	90.0" X 61.0" X 32.8"	(2286 mm X 1549 mm X 833 mm)
END CAP STORAGE	39.5 CUBIC FEET	(1.12 m ³)
MINIMUM INSTALLED STORAGE*	115.3 CUBIC FEET	(3.26 m ³)
WEIGHT (NOMINAL)	90 lbs.	(40.8 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
 END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC7200IEPP06T	6" (150 mm)	42.54" (1081 mm)	---
MC7200IEPP06B		---	0.86" (22 mm)
MC7200IEPP08T	8" (200 mm)	40.50" (1029 mm)	---
MC7200IEPP08B		---	1.01" (26 mm)
MC7200IEPP10T	10" (250 mm)	38.37" (975 mm)	---
MC7200IEPP10B		---	1.33" (34 mm)
MC7200IEPP12T	12" (300 mm)	35.69" (907 mm)	---
MC7200IEPP12B		---	1.55" (39 mm)
MC7200IEPP15T	15" (375 mm)	32.72" (831 mm)	---
MC7200IEPP15B		---	1.70" (43 mm)
MC7200IEPP18T	18" (450 mm)	29.36" (746 mm)	---
MC7200IEPP18TW		---	1.97" (50 mm)
MC7200IEPP24T	24" (600 mm)	23.05" (585 mm)	---
MC7200IEPP24TW		---	2.26" (57 mm)
MC7200IEPP30BW	30" (750 mm)	---	2.95" (75 mm)
MC7200IEPP36BW	36" (900 mm)	---	3.25" (83 mm)
MC7200IEPP42BW	42" (1050 mm)	---	3.55" (90 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PREFABRICATED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-7200 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

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 DRWN CHKO
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12 SHEET OF 13

STATE OF MISSOURI
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DATE: 05/03/2024
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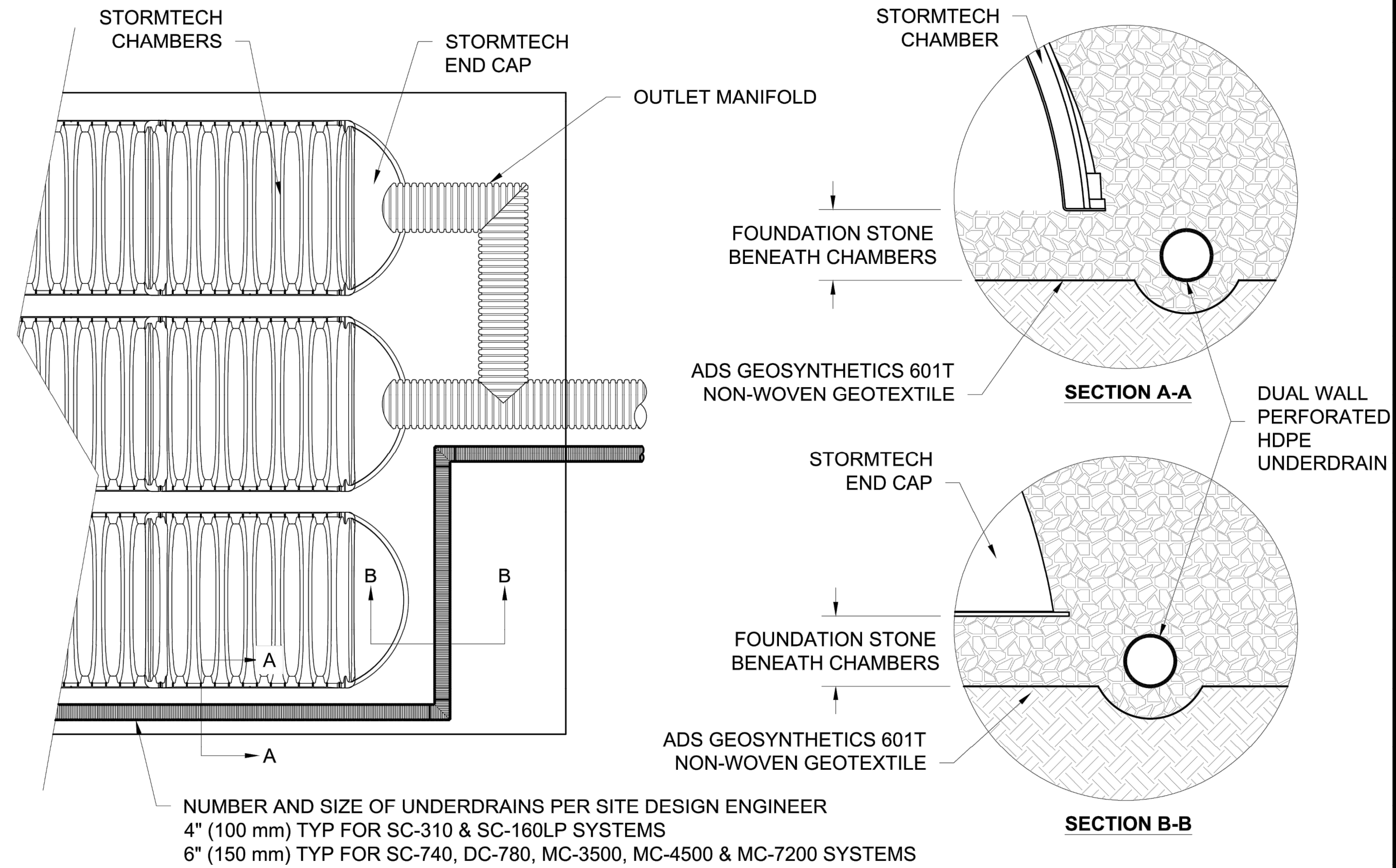
SHEET TITLE:
 Detention Basin
 Detail - East and
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SHEET NUMBER:

C420
 51 OF 272 SHEETS
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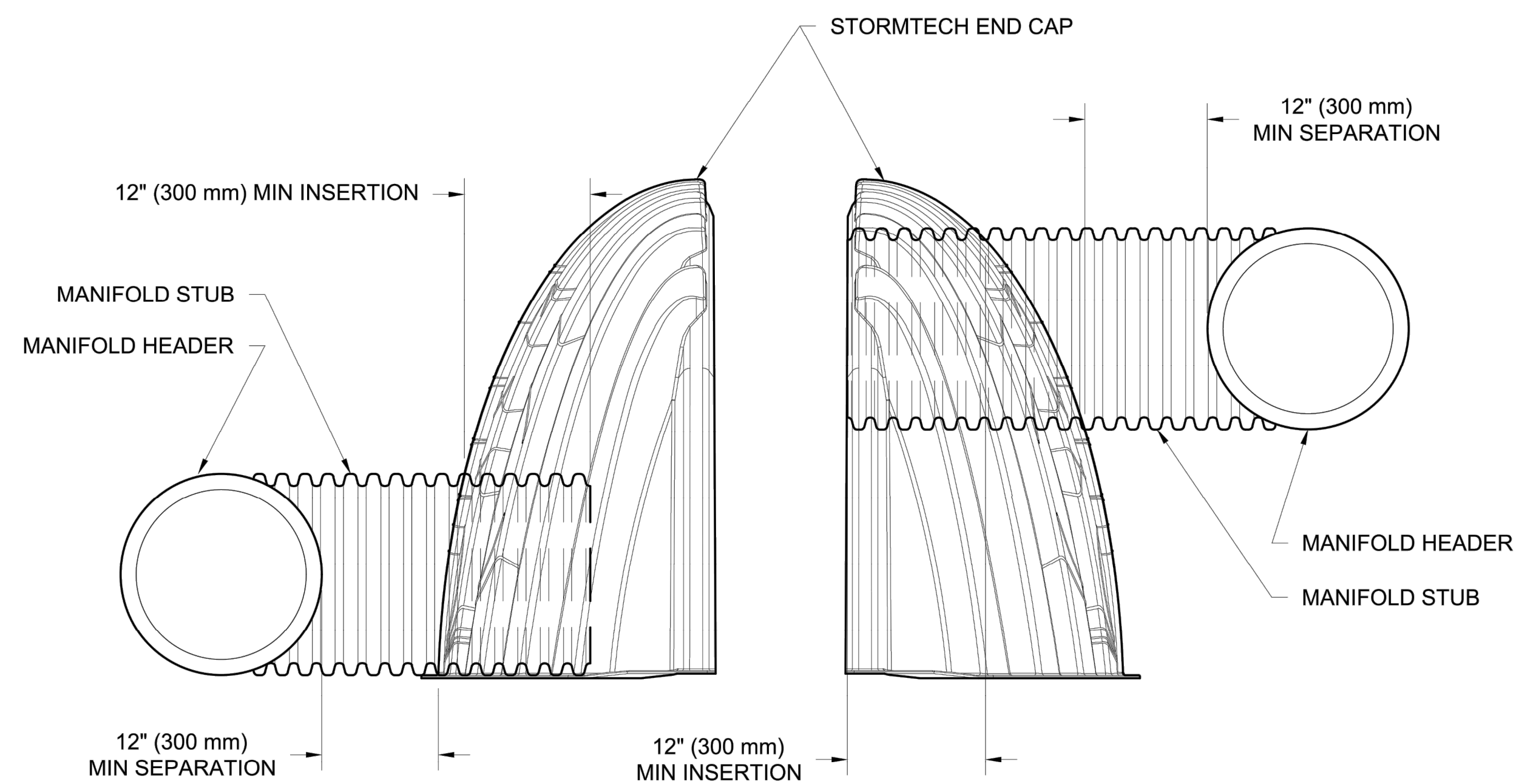
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MC-SERIES END CAP INSERTION DETAIL

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NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

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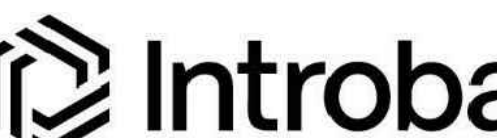
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PROJECT # T2150-01
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 FACILITY # ~~818632200XX~~

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SHEET NUMBER:

C421

52 OF 272 SHEETS
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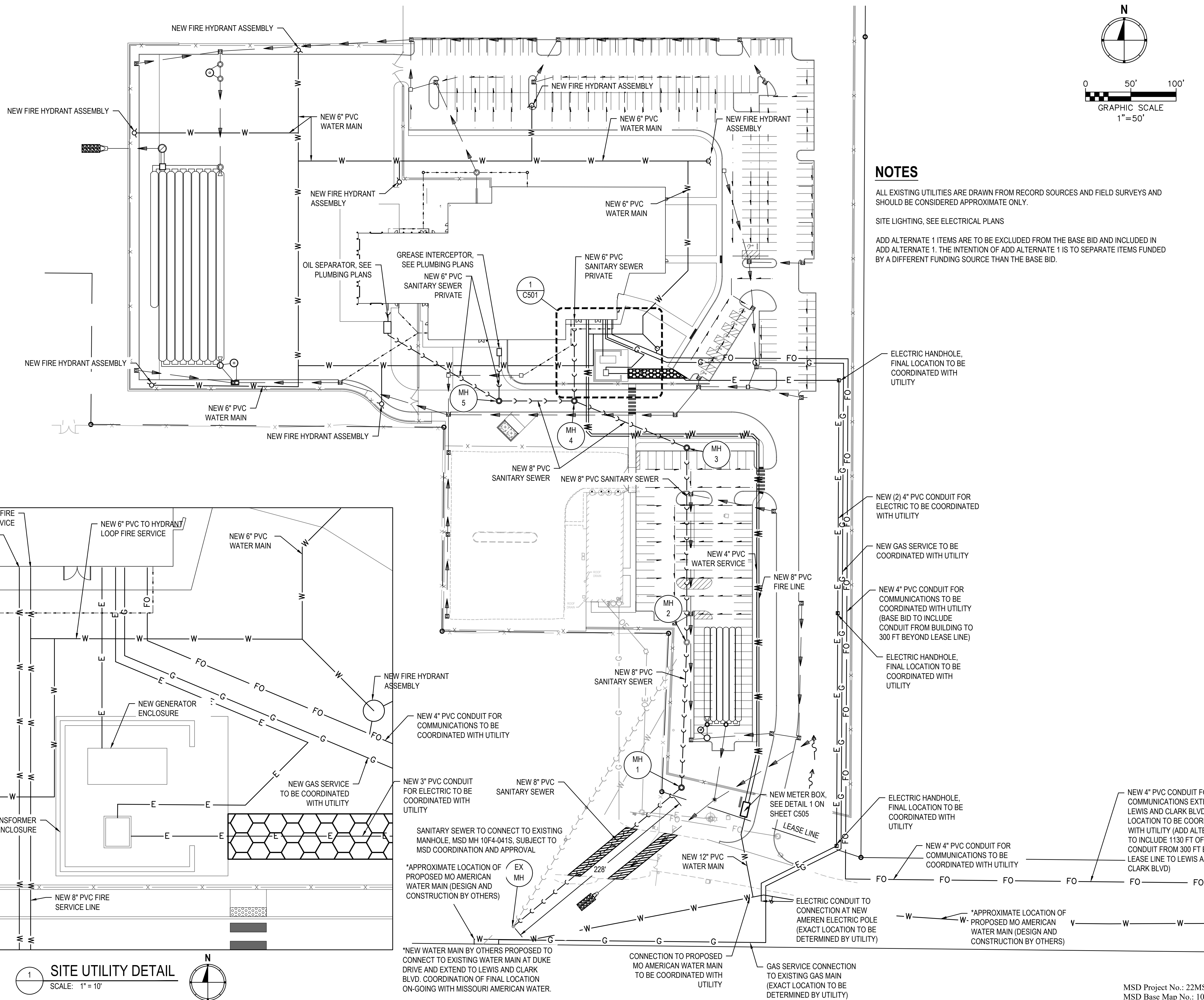
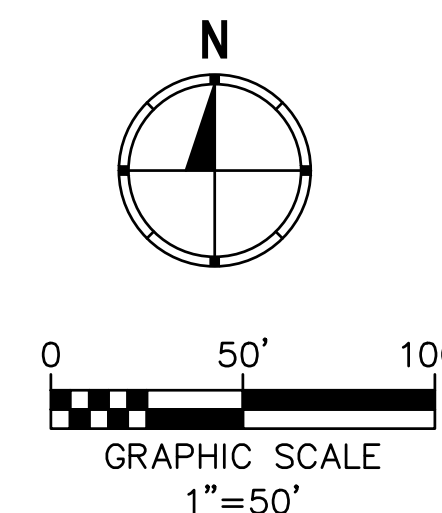
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UTILITY PLAN

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C501

53 OF 272 SHEETS
05/03/2024



NOTES

ALL EXISTING UTILITIES ARE DRAWN FROM RECORD SOURCES AND FIELD SURVEYS AND SHOULD BE CONSIDERED APPROXIMATE ONLY.

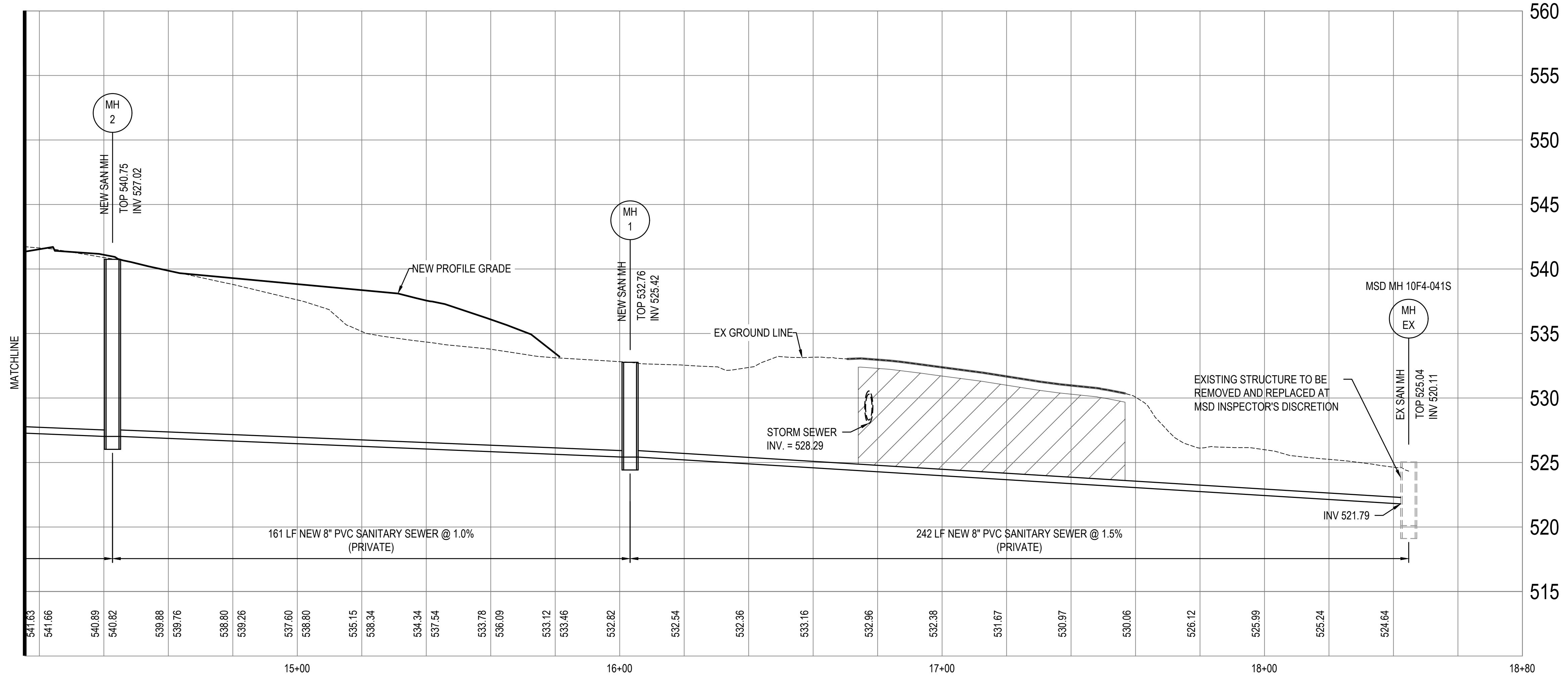
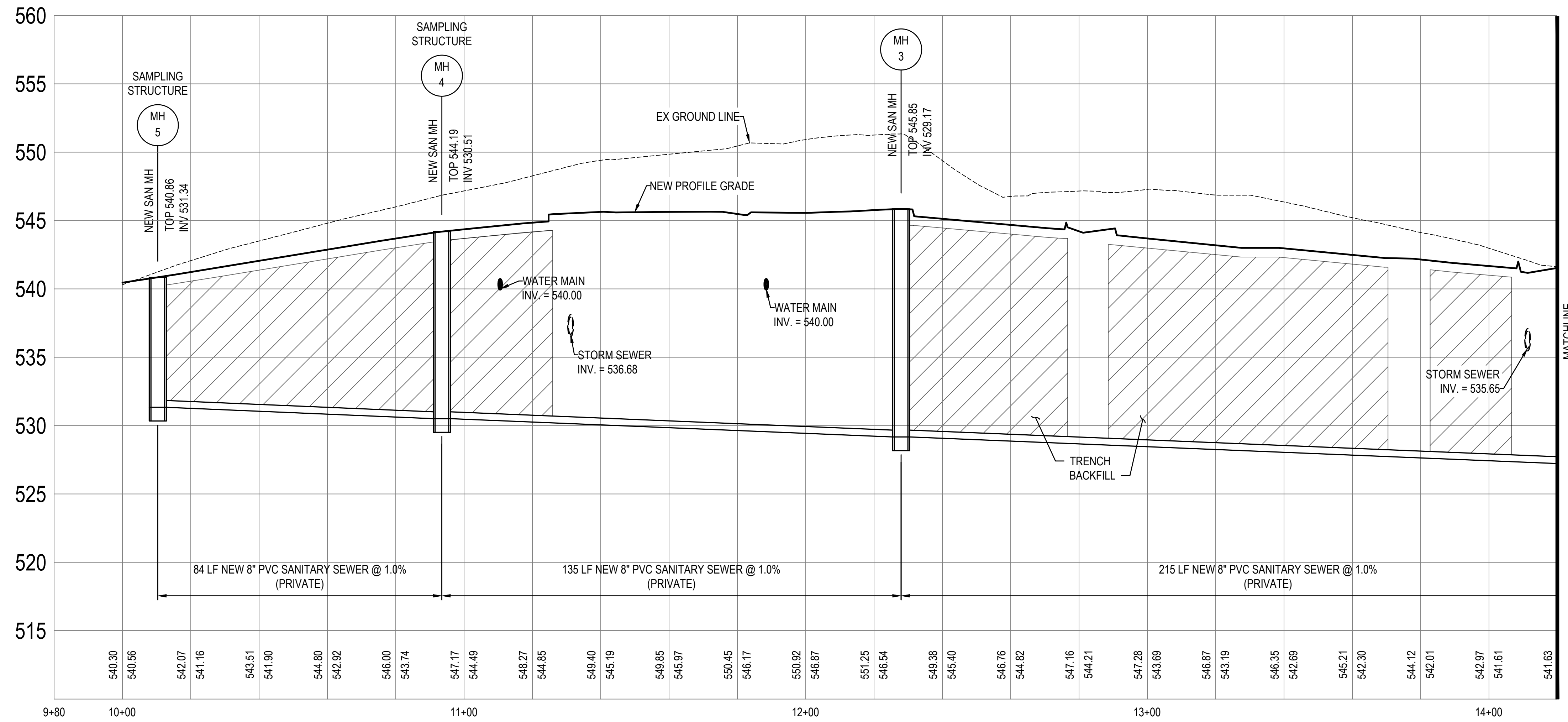
SITE LIGHTING, SEE ELECTRICAL PLANS

ADD ALTERNATE 1 ITEMS ARE TO BE EXCLUDED FROM THE BASE BID AND INCLUDED IN ADD ALTERNATE 1. THE INTENTION OF ADD ALTERNATE 1 IS TO SEPARATE ITEMS FUNDED BY A DIFFERENT FUNDING SOURCE THAN THE BASE BID.

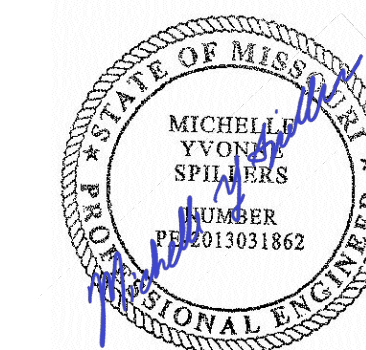
1 SITE UTILITY DETAIL
SCALE: 1" = 10'

*NEW WATER MAIN BY OTHERS PROPOSED TO CONNECT TO EXISTING WATER MAIN AT DUKE DRIVE AND EXTEND TO LEWIS AND CLARK BLVD. COORDINATION OF FINAL LOCATION ON-GOING WITH MISSOURI AMERICAN WATER.

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4



STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



DATE: 05/03/2024
EXPIRES: 12/31/2025



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SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



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BLVD, ST. LOUIS, MO
63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

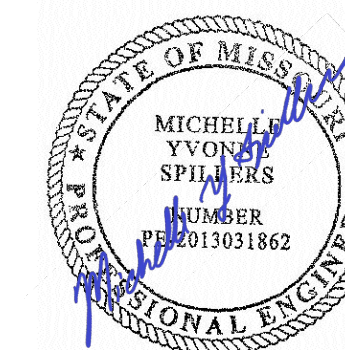
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: BAM
CHECKED BY: MYS
DESIGNED BY: BAM

SHEET TITLE:
**SANITARY
PROFILES**

SHEET NUMBER:

C502



DATE: 05/03/2024
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SITE # 6322
FACILITY # 8136322001

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ISSUE DATE: 05/03/2024

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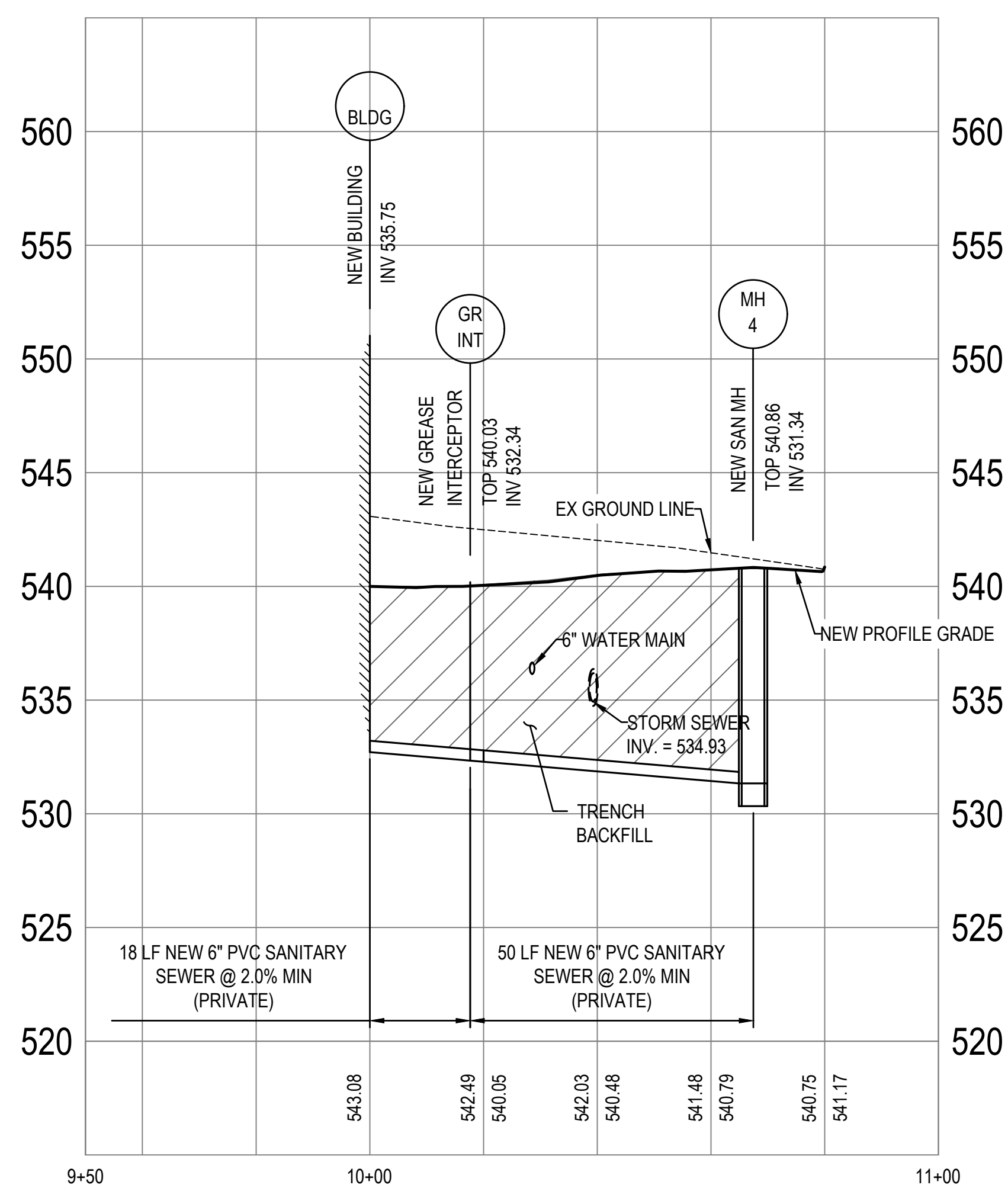
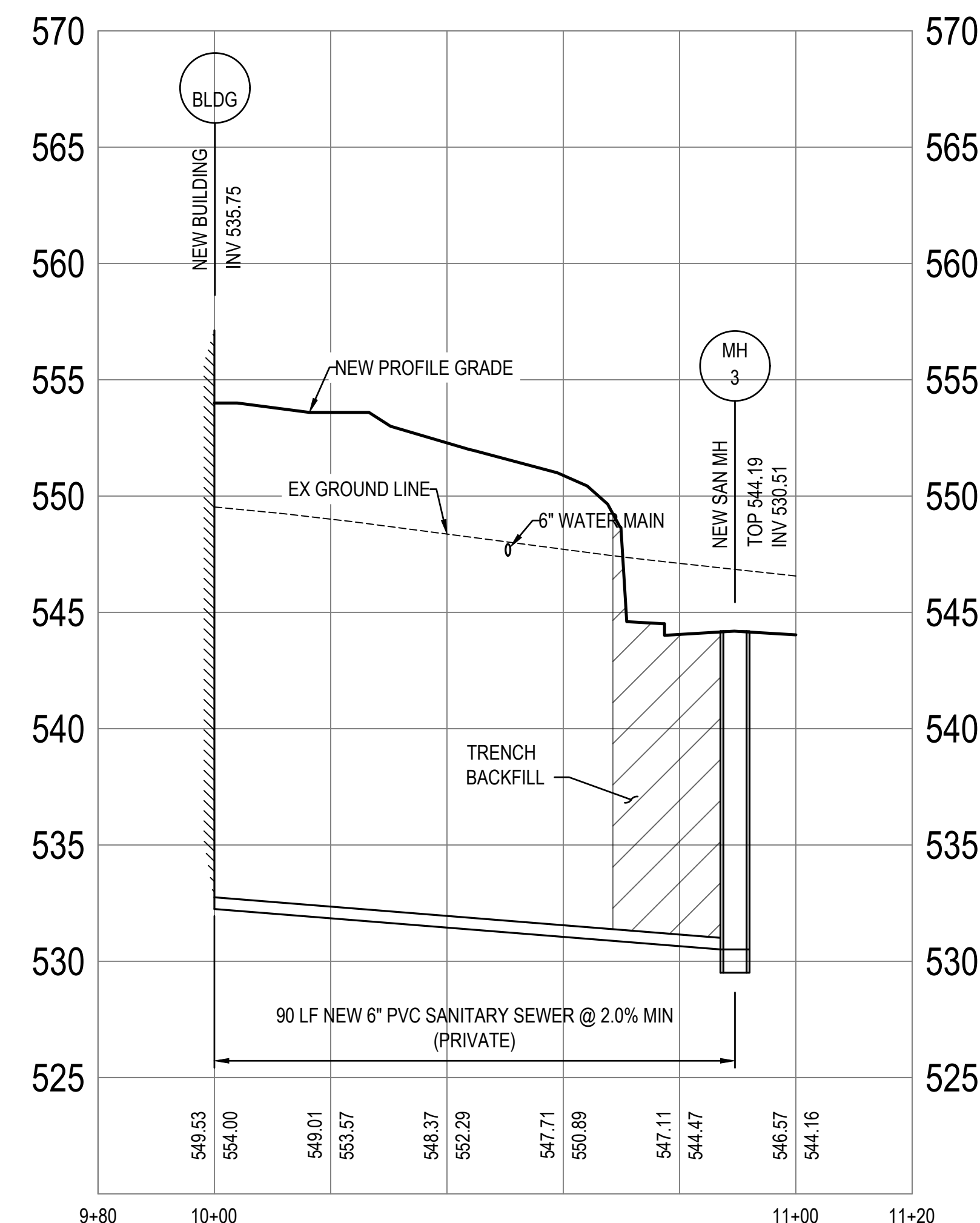
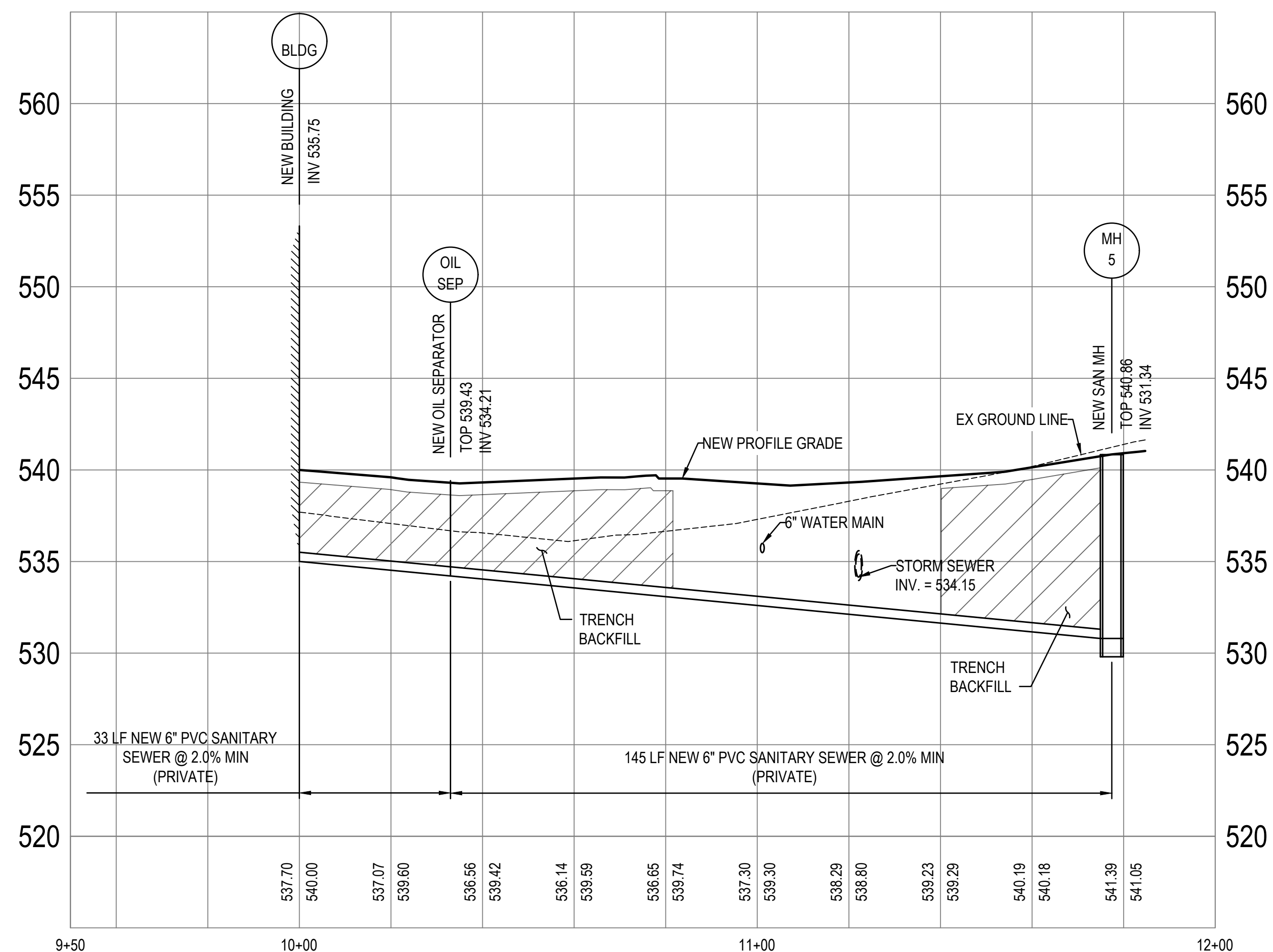
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**SANITARY
PROFILES**

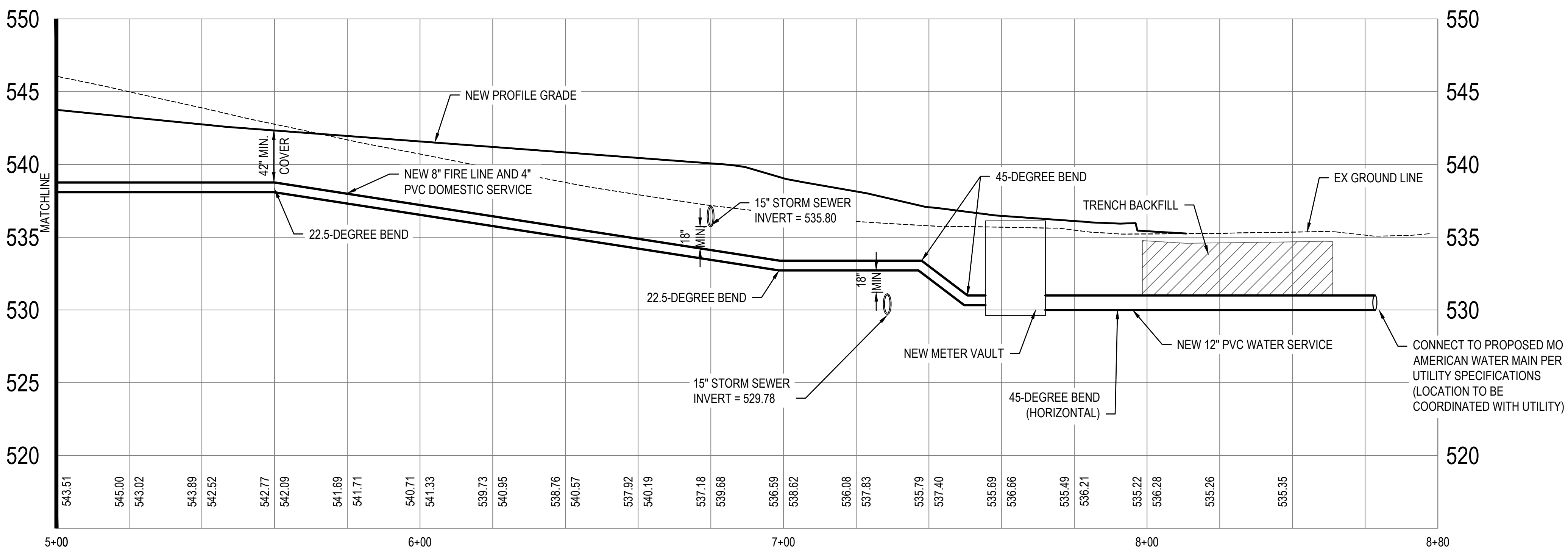
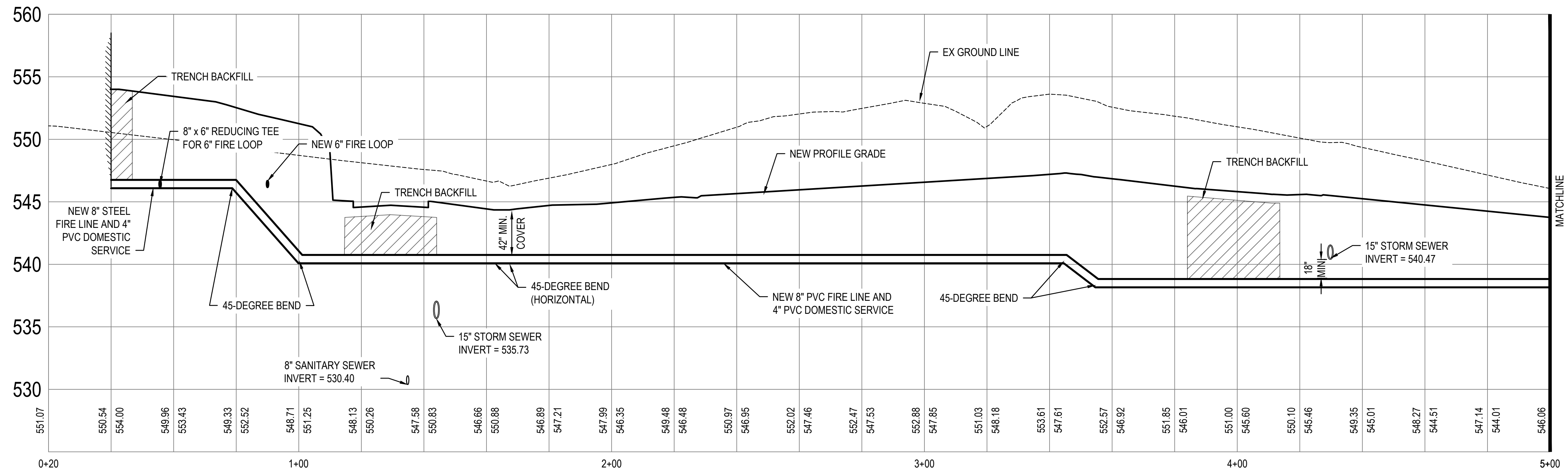
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C503

55 OF 272 SHEETS
05/03/2024

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4



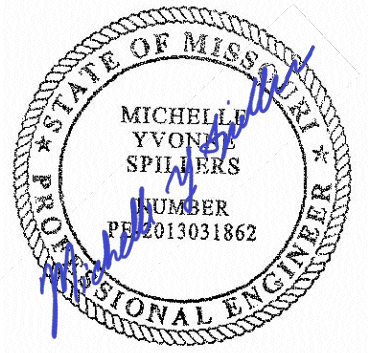


NOTES

8" FIRE LINE AND 4" DOMESTIC SERVICE RUN PARALLEL FROM METER VAULT TO BUILDING. PROFILE IS SHOWN ALONG ALIGNMENT OF 8" FIRE LINE.

PER NFPA 24 THRUST BLOCKS ARE REQUIRED TO BE SIZED BASED ON CALCULATED THRUST FORCE. CONTRACTOR SHALL PROVIDE CALCULATIONS TO VERIFY BLOCK SIZING WHEN NFPA 24 IS APPLICABLE.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



DATE: 05/03/2024
EXPIRES: 12/31/2025



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63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: PJM
CHECKED BY: MYS
DESIGNED BY: PJM

SHEET TITLE:
**WATER
PROFILES**

SHEET NUMBER:

C504

WATER MAIN SPECIFICATIONS

(These specifications supplement the project specifications)

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF MISSOURI AMERICAN WATER COMPANY, THE SPECIAL PROVISIONS, THE CONDITIONS OF THE MODNR PERMIT, AND THE ST. LOUIS COUNTY ORDINANCE.
- ALL WATER MAIN SHALL COMPLY WITH THE SPECIFICATIONS. COMMON WATER SERVICE FOR DOMESTIC WATER AND FIRE SUPPRESSION SHALL COMPLY WITH THE MISSOURI PLUMBING CODE AND NFPA 24. WHEN IN CONFLICT THE STRICTER CODE SHALL GOVERN. WATER SERVICE SHALL BE PVC CONFORMING TO AWWA C900. FITTINGS SHALL BE PVC CONFORMING TO AWWA C900 OR DUCTILE IRON CONFORMING TO AWWA C110. JOINTS SHALL BE MECHANICAL RESTRAINED JOINTS.
- PRIOR TO COMMENCEMENT OF ANY WORK, THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE PLANS WITH THE ACTUAL DIMENSIONS AND CONDITIONS OF THE SITE. THE GENERAL CONTRACTOR MUST VERIFY THE ENGINEER'S LINES AND GRADES. IF A DISCREPANCY OCCURS FROM WHAT IS SHOWN ON THE PLANS, STANDARD SPECIFICATIONS, AND/OR DETAILS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE AFFECTED WORK. FAILING TO DO SO WILL BE CONSIDERED AS THE GENERAL CONTRACTOR HAVING PROCEEDED AT HIS/HER OWN RISK AND EXPENSE.
- ALL WATER MAIN AND WATER SERVICE WORK SHALL BE COORDINATED WITH MISSOURI AMERICAN WATER COMPANY AND ST. LOUIS COUNTY.
- ALL HYDRANTS SHALL MEET THE REQUIREMENTS OF MISSOURI AMERICAN WATER CIVIL FIRE DETAIL 2 ON SHEET C505. A HYDRANT ASSEMBLY SHALL CONSIST OF A 6" RESILIENT WEDGE GATE VALVE ANCHORED TO THE HYDRANT BY USE OF AN ANCHORING COUPLING OR RESTRAINT JOINT GLANDS IN ACCORDANCE WITH AWWA AND MISSOURI DNR GUIDELINES. USE OF RODS IS PROHIBITED. ASSEMBLY SHALL INCLUDE VALVE BOX.
- ALL HYDRANTS TO BE INSTALLED/ADJUSTED STRAIGHT (PLUMB) AND AT THE PROPER FINISHED GRADE PER MANUFACTURER'S SPECIFICATIONS.
- ALL VALVES SHALL BE LEFT OPEN, RESILIENT WEDGE GATE VALVES WITH INTEGRAL STAINLESS-STEEL NUTS AND BOLTS (BONNET AND PACKING BOLTS).
- ALL TAPPING SLEEVES SHALL BE STAINLESS STEEL SLEEVES WITH DUCTILE IRON FLANGE, ROMAC INDUSTRIES MODEL SST OR EQUAL. FLANGE BOLTS AND NUTS TO BE 316 STAINLESS STEEL.
- TRACER WIRE TO BE COPPERHEAD #12 CCS HIGH STRENGTH, SOFT DRAWN 380# OR EQUAL, SHALL BE INSTALLED ADJACENT TO ALL WATERLINES AND CONNECTED TO HYDRANTS AND VALVES. WIRE TO BE PLACED OUTSIDE OF VALVE BOX AND THREADED THRU A PENETRATION AT 8" BELOW TOP OF BOX. ALL SPLICES SHALL BE SOLDERED AND MADE WATERTIGHT BY USE OF SILICONE FILLED WIRE NUTS.
- ALL THRUST BLOCKING SHALL BE WITH POURED CONCRETE BLOCKS AGAINST UNDISTURBED VERTICAL EARTH FACE.
- THE WATER MAIN SERVING THE FIRE SPRINKLER SYSTEM TO BE FLUSHED AT A RATE APPROPRIATE TO ITS SIZE, PRIOR TO CONNECTION TO THE SYSTEM. NOTIFY THE LOCAL AUTHORITY TWENTY-FOUR HOURS (24) IN ADVANCE OF THE FLUSHING TO WITNESS.
- DETAILED "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO MISSOURI AMERICAN WATER COMPANY AND THE OWNER UPON COMPLETION OF THE PROJECT.
- ALL WATER MAINS AND SERVICES SHALL BE INSTALLED BY A STATE OF MISSOURI LICENSED PLUMBER.
- CONTRACTOR SHALL NOTIFY THE MISSOURI AMERICAN WATER COMPANY 48 HOURS PRIOR TO STARTING WORK.

THE FOLLOWING INSPECTIONS AND TESTING SHALL OCCUR FOR THE UNDERGROUND PIPING. THE LOCAL OFFICIAL SHALL HAVE A MINIMUM OF FORTY-EIGHT (48) HOUR NOTICE OF THE TEST. THEY SHALL INCLUDE BUT ARE NOT LIMITED TO:

- UNDERGROUND PIPING, THRUST BLOCKS, AND RESTRAINTS SHALL BE VISUAL INSPECTED PRIOR TO BEING COVERED. THE LOCAL AUTHORITY HAVING JURISDICTION SHALL BE CONSULTED ON WHAT RELEVANT DEPARTMENT SHALL COMPLETE THE INSPECTION. A COPY OF THE INSPECTION SHALL BE PROVIDED TO THE LOCAL FIRE OFFICIAL PRIOR TO THE FLUSHING AND HYDROSTATIC TEST.
- UNDERGROUND FLUSHING TO BE COMPLETED PRIOR TO THE FIRE SERVICE MAIN BEFORE THE BACKFLOW ASSEMBLY IS INSTALLED AND PUT INTO SERVICE. THE UNDERGROUND PIPING FLUSHING FLOW RATE SHALL BE NOT LESS THAN ONE OF THE OPTIONS LISTED IN NFPA 24. A COPY OF THE TESTING DOCUMENTS IS TO BE PRESENTED TO THE LOCAL FIRE OFFICIAL AT THE COMPLETION OF THE TEST.
- UNDERGROUND HYDROSTATIC TO BE COMPLETED PRIOR TO THE FIRE SERVICE MAIN FROM BEING COVERED. THE PIPING SHALL BE HYDROSTATICALLY TESTED AT TWO HUNDRED PSI (200) AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR TWO (2) HOURS.
- ALL WORK SHALL BE INSPECTED BY LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO BACKFILLING.
- ALL WATER METER LIDS AND VALVE BOXES TO BE ADJUSTED TO THE PROPER FINISH GRADE.
- THRUST BLOCK SIZING AND RESTRAINT LENGTHS ARE REQUIRED TO BE SIZED BY THE CONTRACTOR BASED ON THE CALCULATED THRUST FORCES AND SUBMITTED TO THE ENGINEER. CONCRETE FOR ANY REQUIRED THRUST BLOCK SHALL BE NO LEANER THAN ONE (1) PART CEMENT, TWO AND ONE-HALF (2-1/2) PARTS SAND, AND FIVE (5) PARTS STONE.

THRUST BLOCK SIZING TABLE & NOTES:

- COVER OVER TOP OF PIPE SHALL BE BELOW FROST LINE OR 30" MINIMUM, 72" MAXIMUM ACCORDING TO REGULATORY REQUIREMENTS. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
- THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
- NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES.
- THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
- BASED ON 200 PSI (150 PSI STATIC PRESSURE PLUS 50 PSI WATER HAMMER) AND 2000 PSF SOIL BEARING.
- POLYETHYLENE ENCASMENT ON ALL D.I. PIPE AND FITTINGS.
- PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
- ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
- ALL ANCHOR BOLTS SHALL BE COR-BLUE, MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH ASPHALT CEMENT AFTER CONCRETE HAS SET.
- ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPED PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
- THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
- PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE MIN 3000 PSI CONCRETE.
- FOR UNSTABLE SOIL CONDITIONS, CHECK WITH ENGINEER FOR THRUST BLOCK DIMENSIONS.
- FOR MAIN SIZES GREATER THAN 16", SEE ENGINEER FOR THRUST BLOCK DIMENSIONS.
- PER NFPA 24 THRUST BLOCKS ARE REQUIRED TO BE SIZED BASED ON CALCULATED THRUST FORCES. CONTRACTOR SHALL PROVIDE CALCULATIONS TO VERIFY BLOCK SIZING WHEN NFPA 24 IS APPLICABLE.

REQUIRED BEARING AREA ON UNDISTURBED SOIL AND TYPICAL DIMENSIONS

PIPE SIZE	90 DEGREE BENDS			45 DEGREE BENDS			11.25 DEGREE BENDS			22.5 DEGREE BENDS			TEES/PLUGS		
	AREA (sq ft)	"A"	"B"	AREA (sq ft)	"A"	"B"	AREA (sq ft)	"A"	"B"	AREA (sq ft)	"A"	"B"	AREA (sq ft)	"A"	"B"
6	5.3	43"	18"	2.9	23"	18"	0.7	6"	18"	1.5	12"	18"	3.7	30"	18"
8	9.2	55"	24"	5.0	30"	24"	1.3	8"	24"	2.5	15"	24"	6.4	39"	24"
10	13.8	66"	30"	7.5	36"	30"	1.9	9"	30"	3.8	18"	30"	9.7	46"	30"
12	19.4	78"	36"	10.6	42"	36"	2.7	11"	36"	5.3	21"	36"	13.8	55"	36"
14	26.0	89"	42"	14.0	48"	42"	3.6	12"	42"	7.2	25"	42"	18.5	63"	42"
16	33.7	101"	48"	18.3	55"	48"	4.7	14"	48"	9.4	28"	48"	23.9	72"	48"

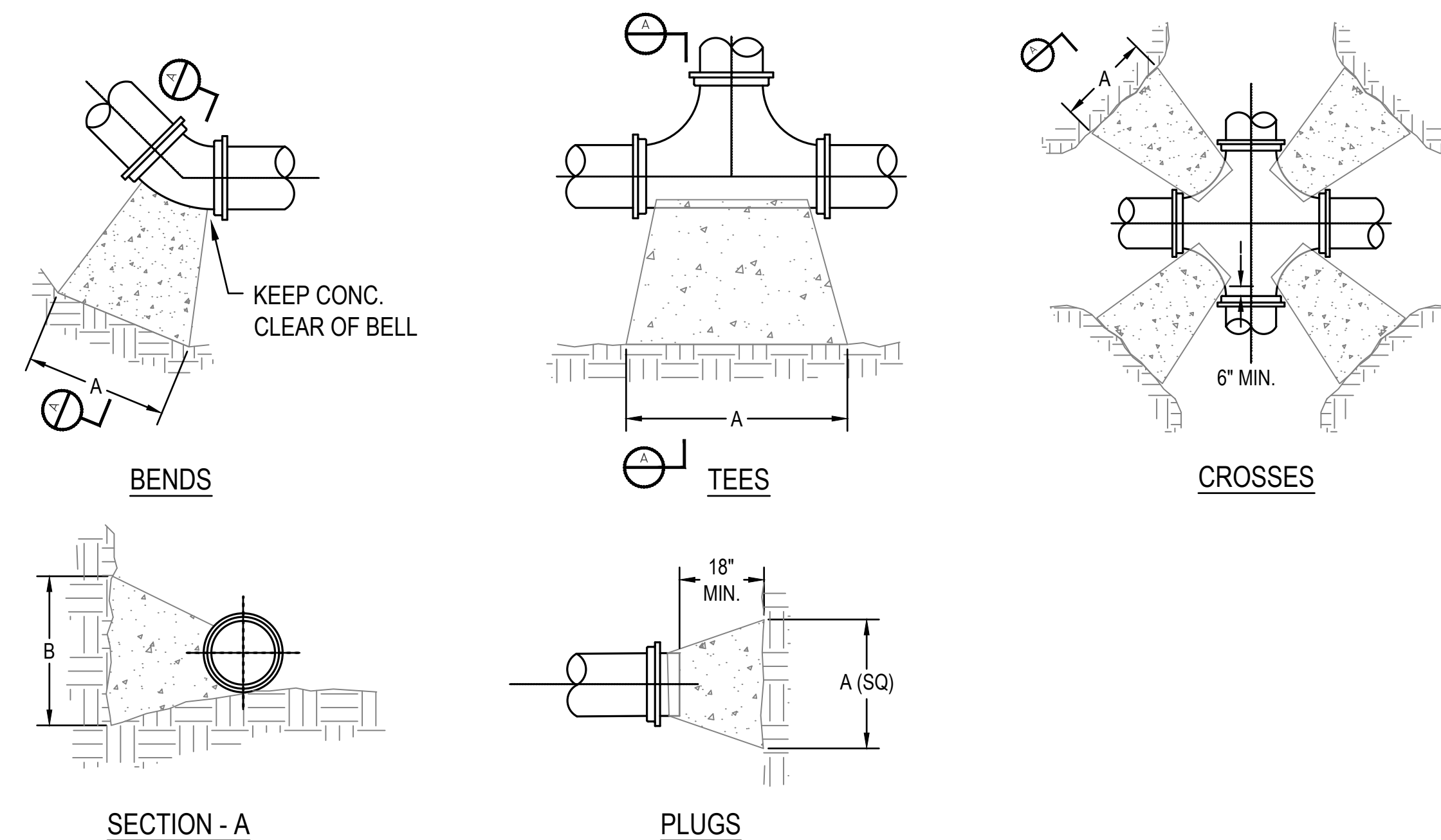
Area in square feet "A" and "B" in inches

Bearing table area is based on 200 psi maximum with soil bearing capacity of 2000 lbs/square foot.

For higher water pressures or lower soil pressures, consult Engineer for adjustments.

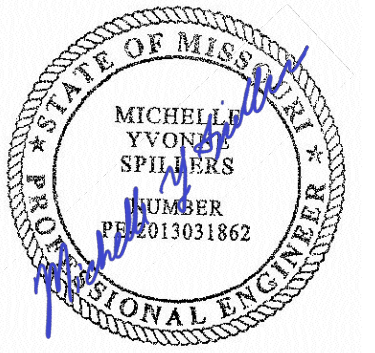
Bearing table area does not include a safety factor.

A safety factor and additional bearing area may be required as directed by the Engineer.



1 BENDS, TEES & CROSSES
SCALE: NO SCALE

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



DATE: 05/03/2024
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SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
www.oatesassociates.com



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PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

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ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: AJN
CHECKED BY: MYS
DESIGNED BY: AJN

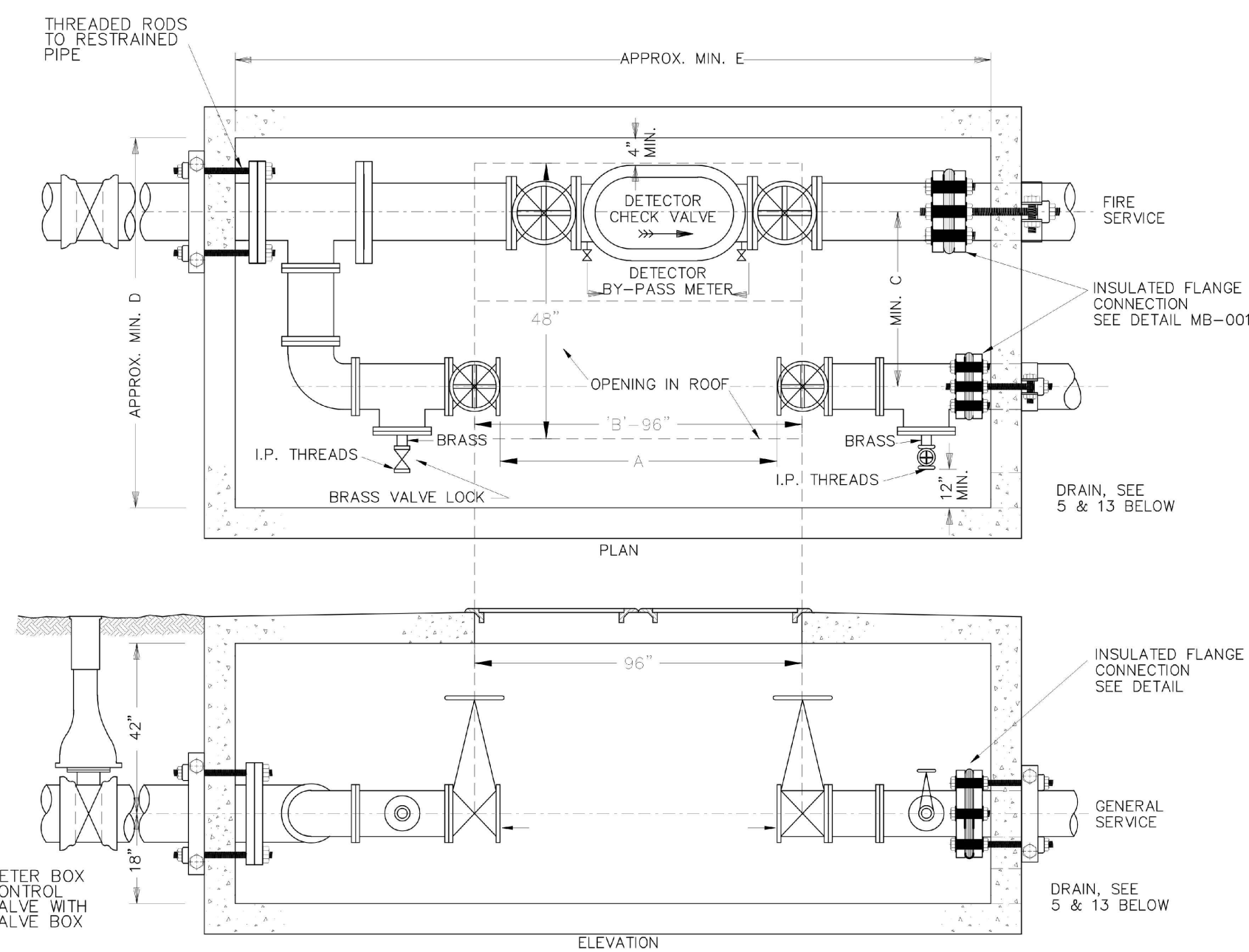
SHEET TITLE:
Water Main Details

SHEET NUMBER:

C505

57 OF 272 SHEETS
05/03/2024

MSD Project No.: 22MSD - 00241
MSD Base Map No.: 10F4



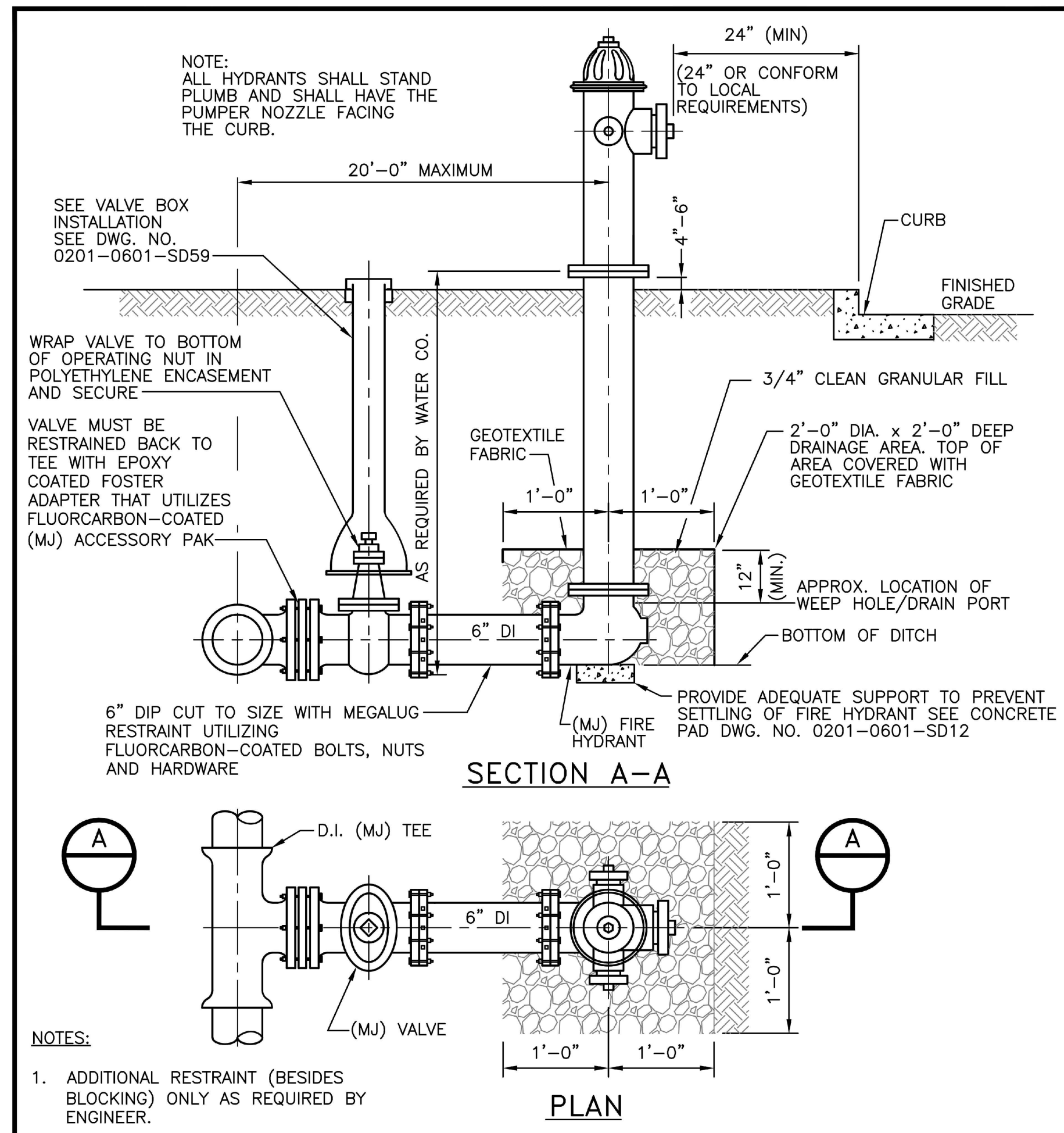
NOTES

SIZE	DOMESTIC SERVICE					FIRE SERVICE									
	MIN.	MAX.	A	B	C	MIN.	MAX.	A	B	C					
1 1/2	1	30	96	35	72	102	35	72	90	30	66	84	27	60	84
2	2	30	96	35	72	102	35	72	90	30	66	84	27	60	84
3	2	54	96	35	84	156	35	78	156	30	72	150	27	72	150
4	2	54	96	35	84	162	35	84	162	30	78	156	27	72	156
6	2	60	96	36	84	174	36	84	174	31	78	174			
8	2	66	96	37	84	186	37	84	186						

- Vault walls and roof to be of concrete.
- Lids and frames of opening to be set in place, not in concrete.
- Valves on each side of general meter for 1 1/2" or 2" service to have screw ends, I.P. threads; for 3" and above, valves must have flanged ends & be in alignment. All valves must be adequately secured to withstand water thrust with meter removed.
- Minimum clearance of 6" to be provided between the edge and general meter and the edge and detector check by-pass meter.
- Drainage facilities must be provided or box otherwise kept free of water. No french drains allowed unless approved by authorized company representative.
- Class 52 DI pipe extended min. 6" from outlet side of meter pit. (Zinc coated DI pipe with Y-Bio Polywrap optional in highly corrosive soil areas).
- Type "K" or "L" copper on domestic - extended min. 6" from outlet side of meter pit.
- Any deviation from pipe depth shown must be approved by authorized company representative prior to construction.
- meter box control valve to be located as near to meter box as practical.
- Box to be set with top of box at finished grade with no extension allowed.
- Connections to public water main will not be made before meter pit and piping are complete and property line valve installed unless approved by authorized company representative.
- Lids shall be made of aluminum and spring loaded. Opening shall be 48" x 96" to allow unrestricted access. Opening to be flush with outlet side of domestic water service valve flange.
- Drain needs to be graded to allow water drainage away and out from vault.

METER BOX FOR SPLIT SERVICE

1 METER BOX FOR SPLIT SERVICE
SCALE: NO SCALE



- NOTES:
- ADDITIONAL RESTRAINT (BESIDES BLOCKING) ONLY AS REQUIRED BY ENGINEER.
 - PAINT HYDRANT TO MATCH COLOR OF LOCAL REQUIREMENTS USING PAINT COMPATIBLE WITH MANUFACTURER'S CATALOG TO BURY LINE (AND CAN BE DONE PRIOR TO INSTALLATION).
 - APPLY TOUCH UP PAINT AS REQUIRED AFTER INSTALLATION.

REVISIONS

24"(MIN) from curb 03-07-17 KMS
 Title "Optional" removed 11-07-17 KMS

MISSOURI AMERICAN WATER STANDARD CIVIL FIRE HYDRANT DETAIL

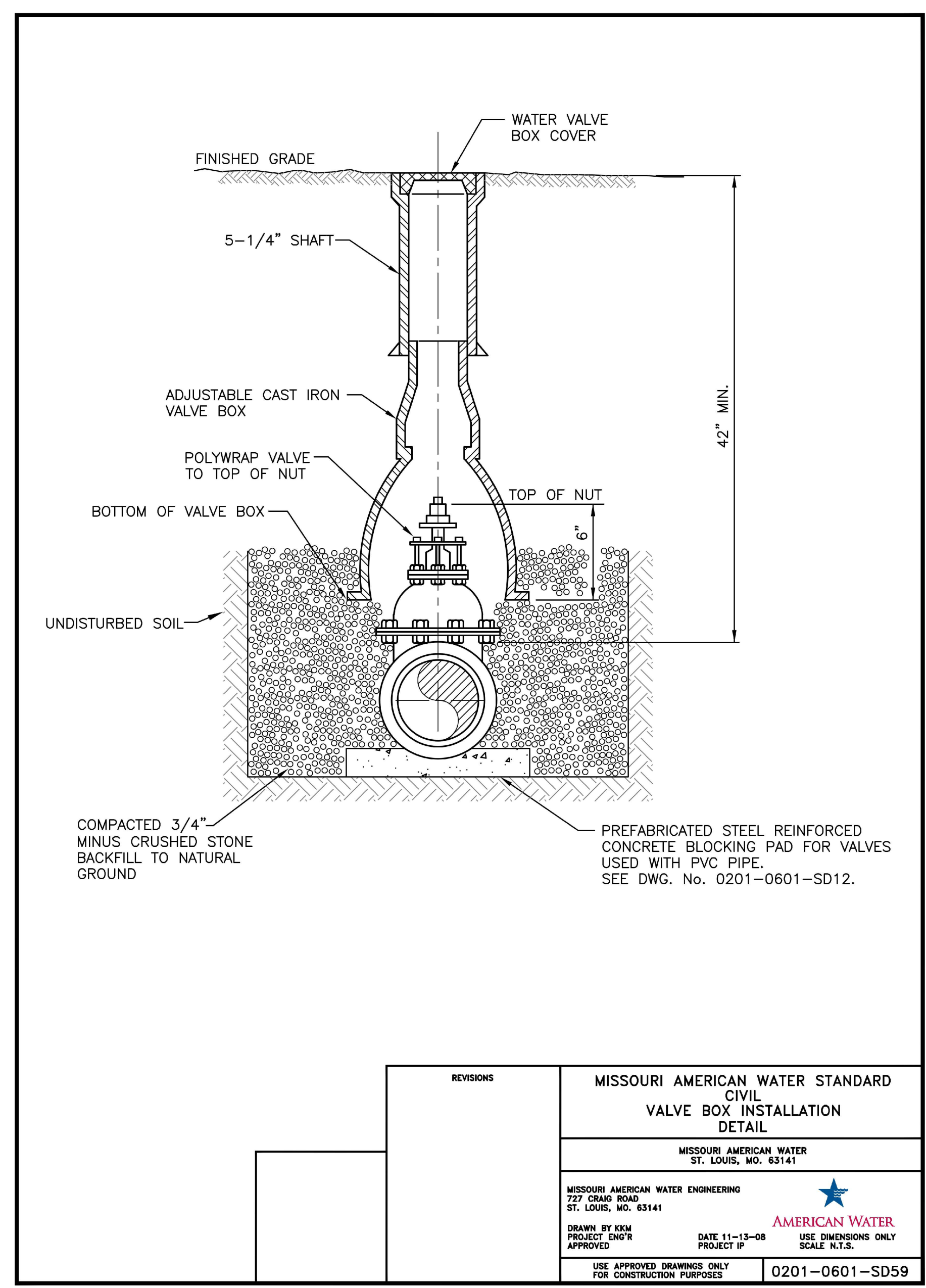
MISSOURI AMERICAN WATER
 ST. LOUIS, MO. 63141

MISSOURI AMERICAN WATER ENGINEERING
 727 GRAND ROAD
 ST. LOUIS, MO. 63141

DRAWN BY KCM PROJECT ENGR APPROVED DATE 02-27-09 PROJECT # USE DIMENSIONS ONLY SCALE N.T.S.

USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES 0201-0601-SD35

2 FIRE HYDRANT
SCALE: NO SCALE



REVISIONS

MISSOURI AMERICAN WATER STANDARD CIVIL VALVE BOX INSTALLATION DETAIL

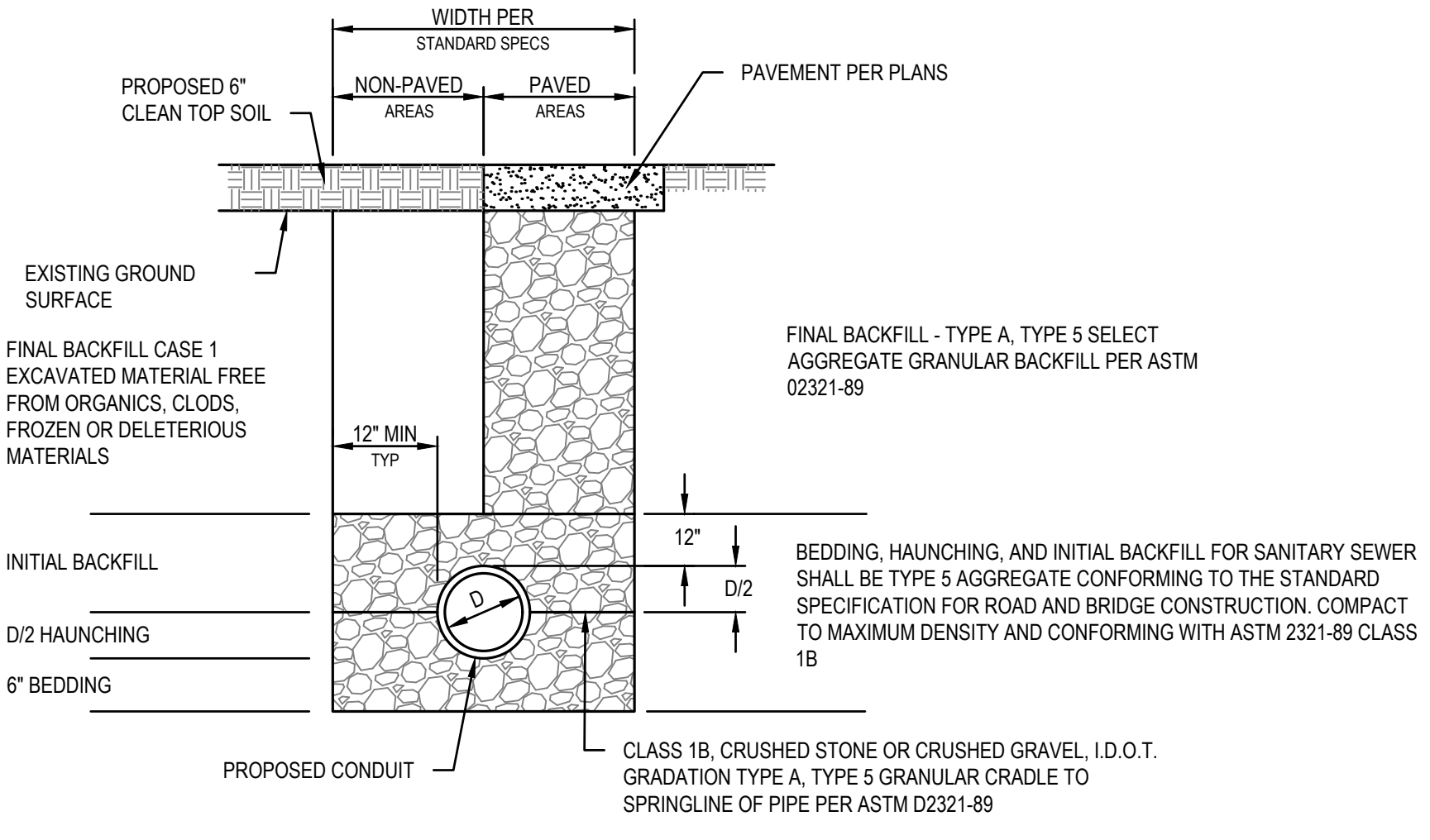
MISSOURI AMERICAN WATER
 ST. LOUIS, MO. 63141

MISSOURI AMERICAN WATER ENGINEERING
 727 GRAND ROAD
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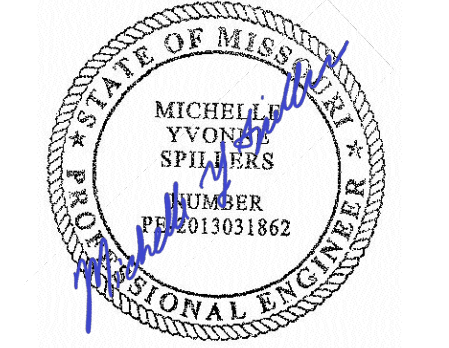
DRAWN BY KCM PROJECT ENGR APPROVED DATE 11-13-08 PROJECT # USE DIMENSIONS ONLY SCALE N.T.S.

USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES 0201-0601-SD59

3 VALVE BOX INSTALLATION
SCALE: NO SCALE



4 WATER MAIN INSTALLATION DETAIL
SCALE: NO SCALE



DATE: 05/03/2024
 EXPIRES: 12/31/2025

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 SUITE 1500 ST. LOUIS, MO 63102
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OATES ASSOCIATES

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 St. Louis, MO 63101
 314.588.8381
 www.oatesassociates.com

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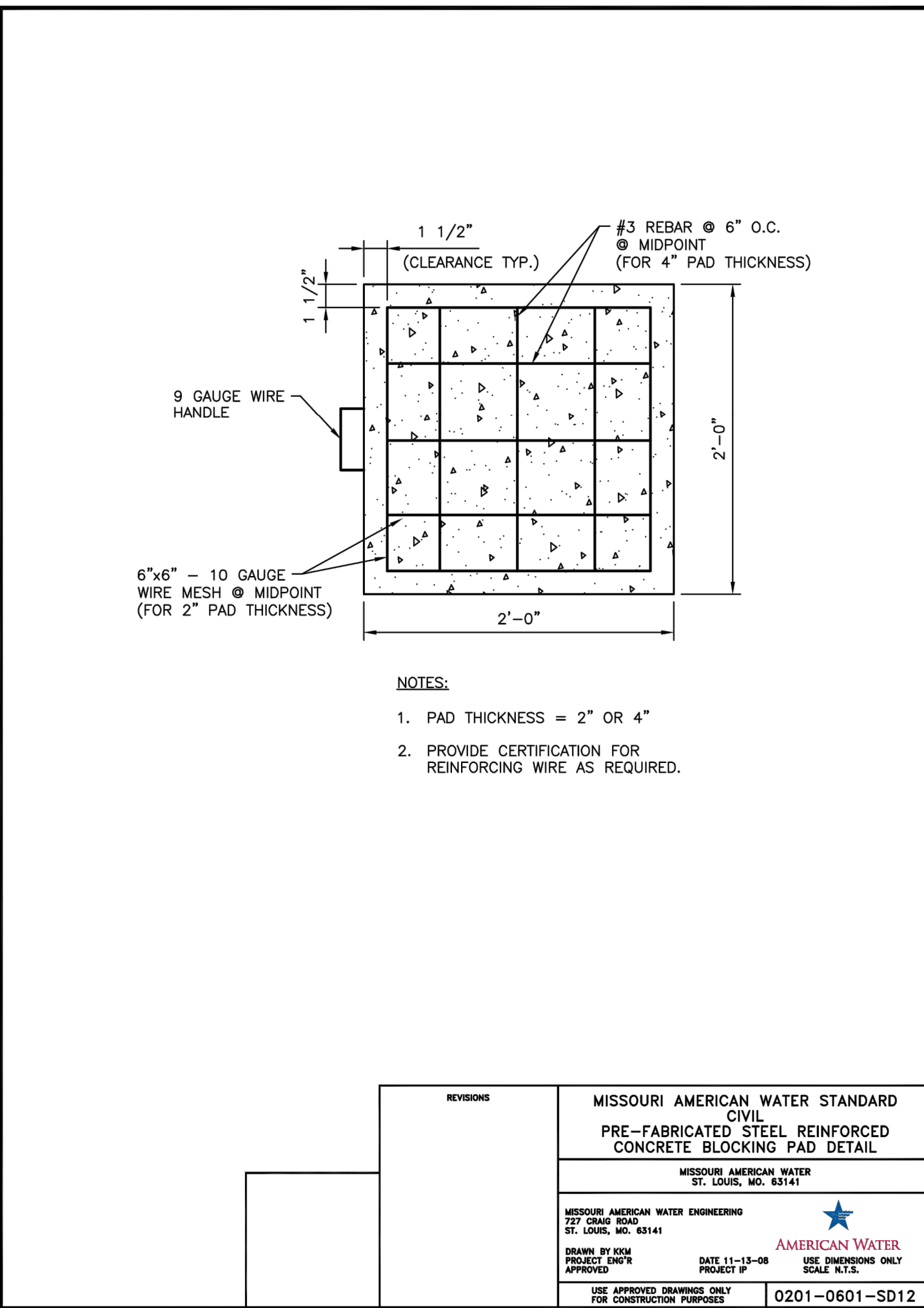
PROJECT # T2150-01
 SITE # 6322
 FACILITY # 8136322001

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CAD DWG FILE:
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 CHECKED BY: MYS
 DESIGNED BY: AJN

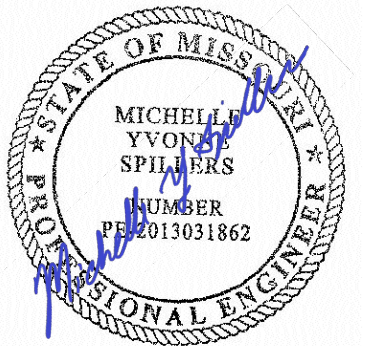
SHEET TITLE:
Water Main Details

SHEET NUMBER:
C506
 58 OF 272 SHEETS
 05/03/2024



REVISIONS	MISSOURI AMERICAN WATER STANDARD CIVIL PRE-FABRICATED STEEL REINFORCED CONCRETE BLOCKING PAD DETAIL
	MISSOURI AMERICAN WATER ST. LOUIS, MO. 63141
	MISSOURI AMERICAN WATER ENGINEERING 227 GRAND ROAD ST. LOUIS, MO. 63141
	AMERICAN WATER
	DRAWN BY: KOK DATE: 11-15-08 PROJECT: 0201-0601-SD12
	APPROVED: [Signature] DATE: 11-15-08 PROJECT: 0201-0601-SD12
	USE APPROVED DIMENSIONS ONLY FOR CONSTRUCTION PURPOSES

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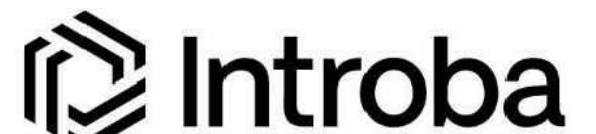
DATE: 05/03/2024
EXPIRES: 12/31/2025



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(314) 367-6100



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St. Louis, MO 63101
314.588.8381
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10625 LEWIS & CLARK
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63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: SW3
CHECKED BY: MYS
DESIGNED BY: SW3

SHEET TITLE:
Water Main Details

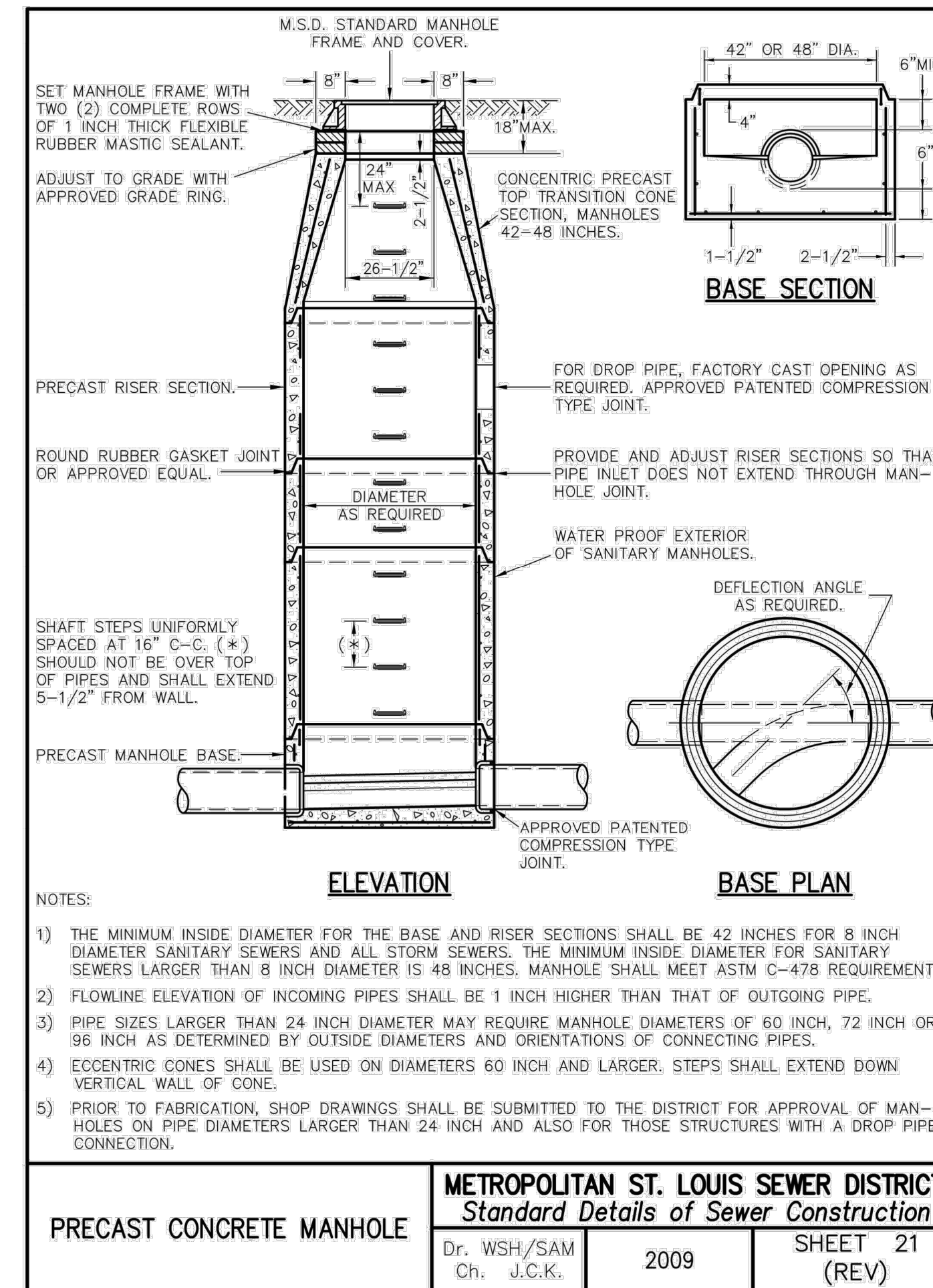
SHEET NUMBER:

C507

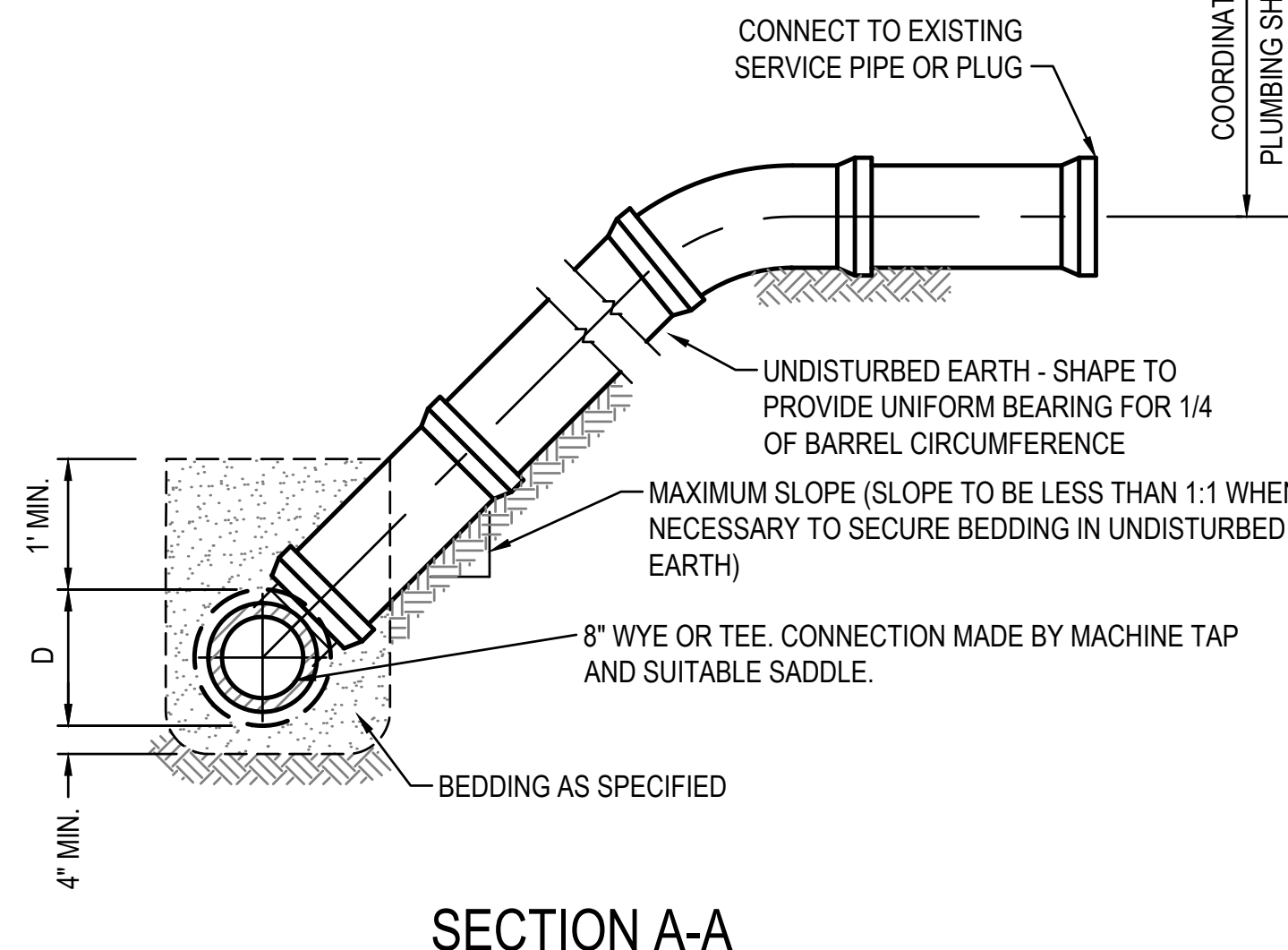
GRAVITY SANITARY SEWER SPECIFICATIONS

(These specifications supplement the project specifications)

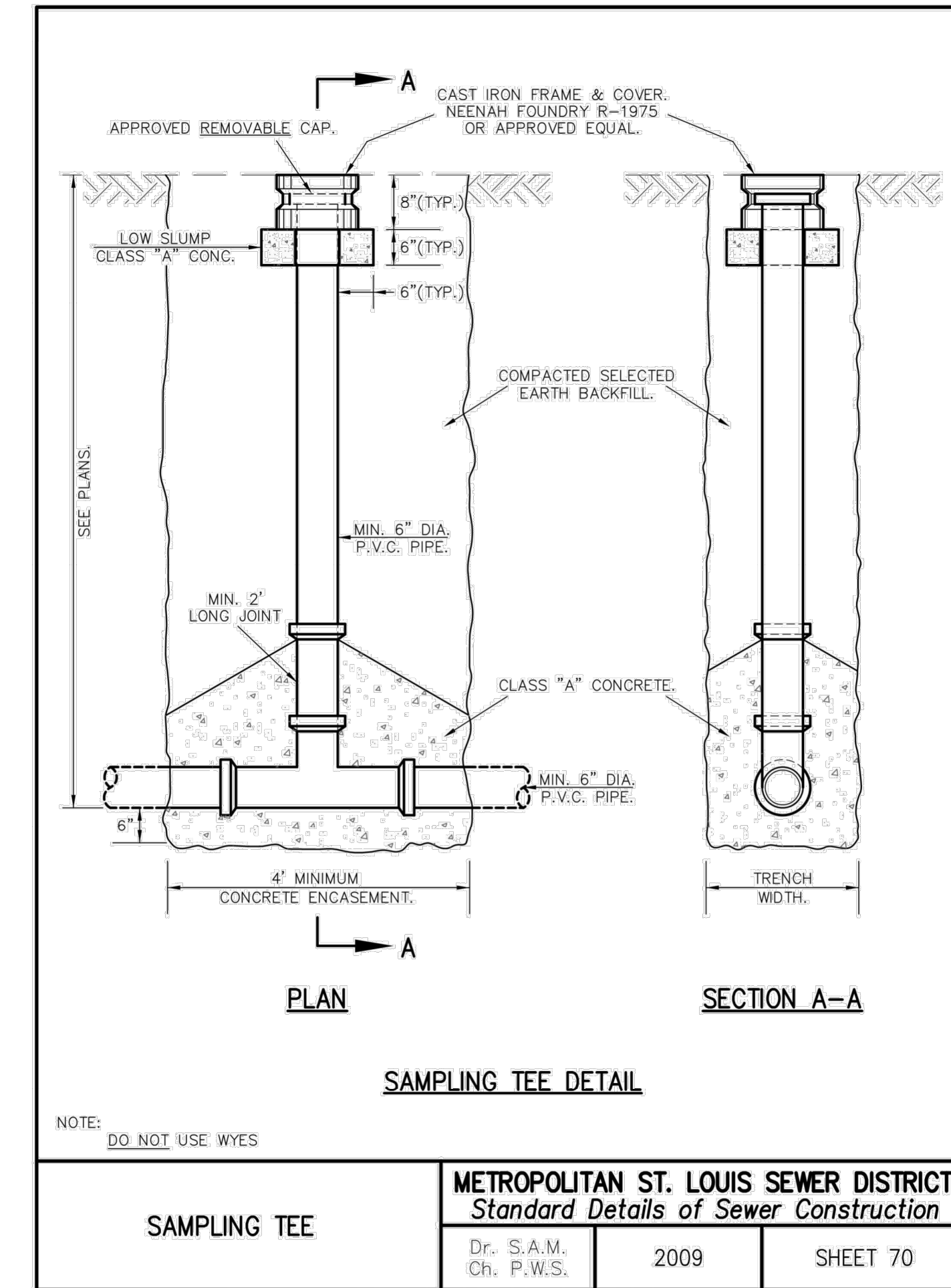
- ALL MATERIALS, INSTALLATION, AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT'S "STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES", THE MISSOURI DEPARTMENT OF NATURAL RESOURCES, THE MISSOURI DEPARTMENT OF PUBLIC HEALTH, THE MISSOURI PLUMBING CODE, AND THE REQUIREMENTS OF ST. LOUIS COUNTY.
- PRIOR TO COMMENCEMENT OF ANY WORK, THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE PLANS WITH THE ACTUAL DIMENSIONS AND CONDITIONS OF THE SITE. THE GENERAL CONTRACTOR MUST VERIFY THE ENGINEER'S LINES AND GRADES. IF A DISCREPANCY OCCURS FROM WHAT IS SHOWN ON THE PLANS, STANDARD SPECIFICATIONS, AND/OR DETAILS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE AFFECTED WORK. FAILING TO DO SO WILL BE CONSIDERED AS THE GENERAL CONTRACTOR HAVING PROCEEDED AT HIS OWN RISK AND EXPENSE.
- ALL SANITARY SEWER PIPES SHALL BE PVC SDR-35 (OR SDR-26 IF GREATER THAN 14 FEET DEEP) MEETING THE REQUIREMENTS OF ASTM D3034 WITH PIPE AND FITTINGS CONFORMING TO ASTM D3034 AND HAVING AN INTEGRAL BELL, GASKETED JOINT CONFORMING TO ASTM D3212
- SANITARY SEWER INVERTS SHOWN ON THE PLANS HAVE BEEN CALCULATED TO THE CENTER OF THE STRUCTURE. THE SANITARY SEWER SLOPES SHOWN ON THE PLANS IS THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF SANITARY SEWERS SHOWN ON THE PLANS IS THE DISTANCE FROM CENTER TO CENTER OF STRUCTURE.
- BEDDING OF THE PIPE AND BACKFILL SHALL BE DONE IN ACCORDANCE WITH ASTM D2321-89 CLASS IB, THE THE METROPOLITAN ST. LOUIS SEWER DISTRICT'S "STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES" AND AS SHOWN IN THE PLANS. GRANULAR TRENCH BACKFILL SHALL BE USED AS INDICATED ON THE PLANS AND WHEN THE EDGE OF ANY TRENCH IS WITHIN 2 FT. OF ANY PAVEMENT, CURB, SIDEWALK, OR OTHER STRUCTURE. TRENCH BACKFILL SHALL BE COMPACTED WITH A ROLLER, VIBRATORY PLATE, OR OTHER COMPACTING DEVICE IN 12-INCH LIFTS.
- ALL GRAVITY SANITARY SEWER PIPES AND STRUCTURES SHALL BE TESTED IN ACCORDANCE WITH THE METROPOLITAN ST. LOUIS SEWER DISTRICT'S "STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES" GRAVITY SEWER PIPES SHALL BE TELEVISION INSPECTED BY THE METROPOLITAN ST. LOUIS SEWER DISTRICT PRIOR TO THE WORK BEING ACCEPTED. CONTRACTOR SHALL REPAIR OR REPLACE ANY LINE OR STRUCTURE WHICH FAILS ANY OF THE REQUIRED TESTS, AND RETEST. ALL TESTS SHALL BE WITNESSED BY THE ENGINEER AND THE METROPOLITAN ST. LOUIS SEWER DISTRICT. CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE METROPOLITAN ST. LOUIS SEWER DISTRICT 48 HOURS IN ADVANCE OF ANY TESTING TO BE PERFORMED.
- A MINIMUM 10-FOOT HORIZONTAL AND 18-INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL WATER AND SEWER MAINS IN ACCORDANCE METROPOLITAN ST. LOUIS SEWER DISTRICT'S "STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES". WHERE PHYSICAL CONSTRAINTS PREVENT THIS REQUIREMENT FROM BEING MET, ALTERNATIVE METHODS FOR PREVENTING CROSS-CONTAMINATION BETWEEN THE SEWER AND WATER MAIN SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE STANDARDS.
- PVC PIPE SHALL BE STORED UNDER COVER TO PROTECT FROM ULTRAVIOLET LIGHT.
- WHENEVER PIPE LAYING IS NOT ACTIVELY IN PROGRESS, OPEN ENDS OF ALL INSTALLED PIPE AND FITTINGS SHALL BE FITTED WITH A WATERTIGHT PLUG.
- PENETRATIONS ON ALL EXISTING MANHOLES SHALL BE CORE DRILLED. NO IMPACT DEVICES WILL BE ALLOWED FOR THE PURPOSE OF CONNECTING NEW SEWER MAINS TO EXISTING MANHOLES.
- ALL PENETRATIONS SHALL BE MADE WATERTIGHT BY THE USE OF NON-SHRINK GROUT.
- SEE PLUMBING PLANS FOR CLEANOUT LOCATIONS.
- ALL MANHOLES SHALL BE INSPECTED AND LEAKAGE TESTED FOR WATER TIGHTNESS IN ACCORDANCE WITH ASTM C 969-94 OR ASTM C 1244-93, PRIOR TO BEING PLACED INTO SERVICE.



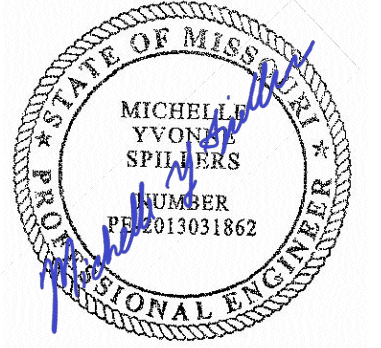
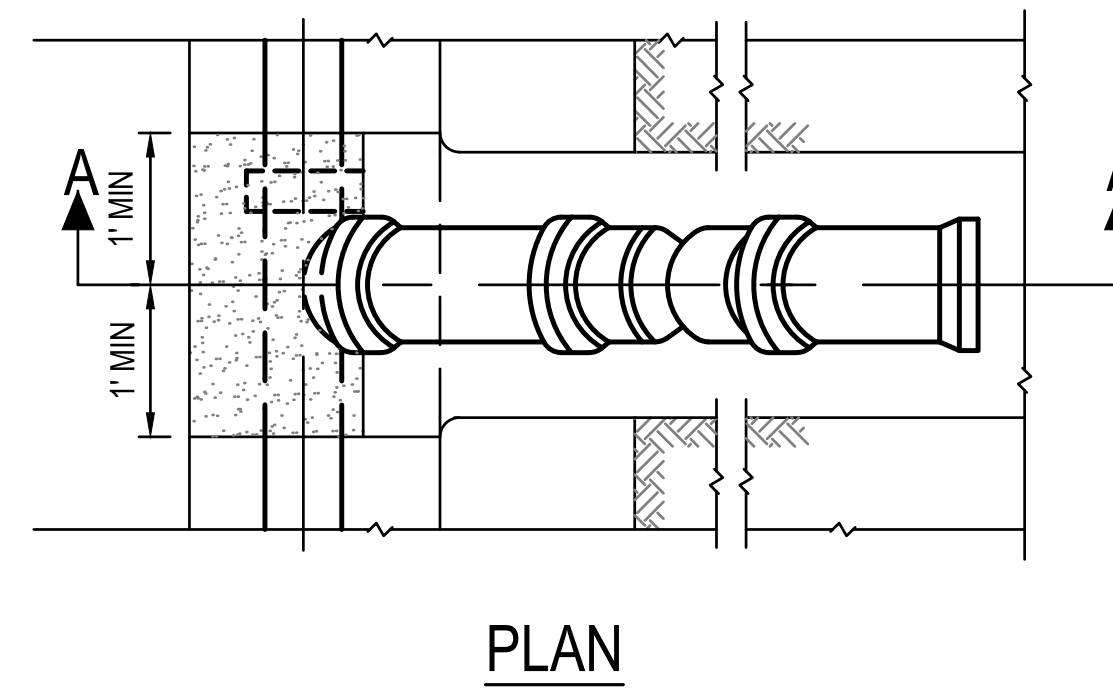
1 MANHOLE
SCALE: NO SCALE



3 TYPICAL RISER FOR SERVICE LATERAL
SCALE: NO SCALE



2 SAMPLING TEE
SCALE: NO SCALE



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PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

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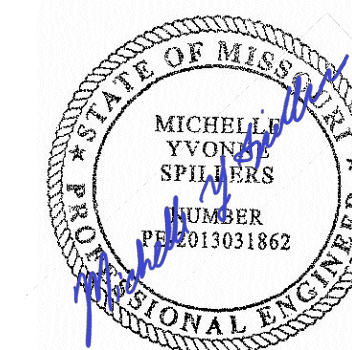
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DRAWN BY: AJN
CHECKED BY: MYS
DESIGNED BY: AJN

SHEET TITLE:
Sanitary Sewer
Details

SHEET NUMBER:

C508

60 OF 272 SHEETS
05/03/2024



DATE: 05/03/2024
EXPIRES: 12/31/2025



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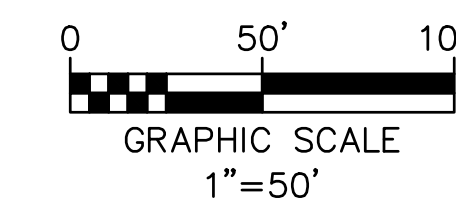
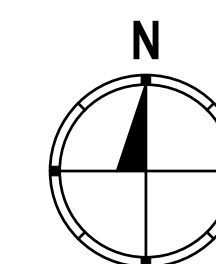
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SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:

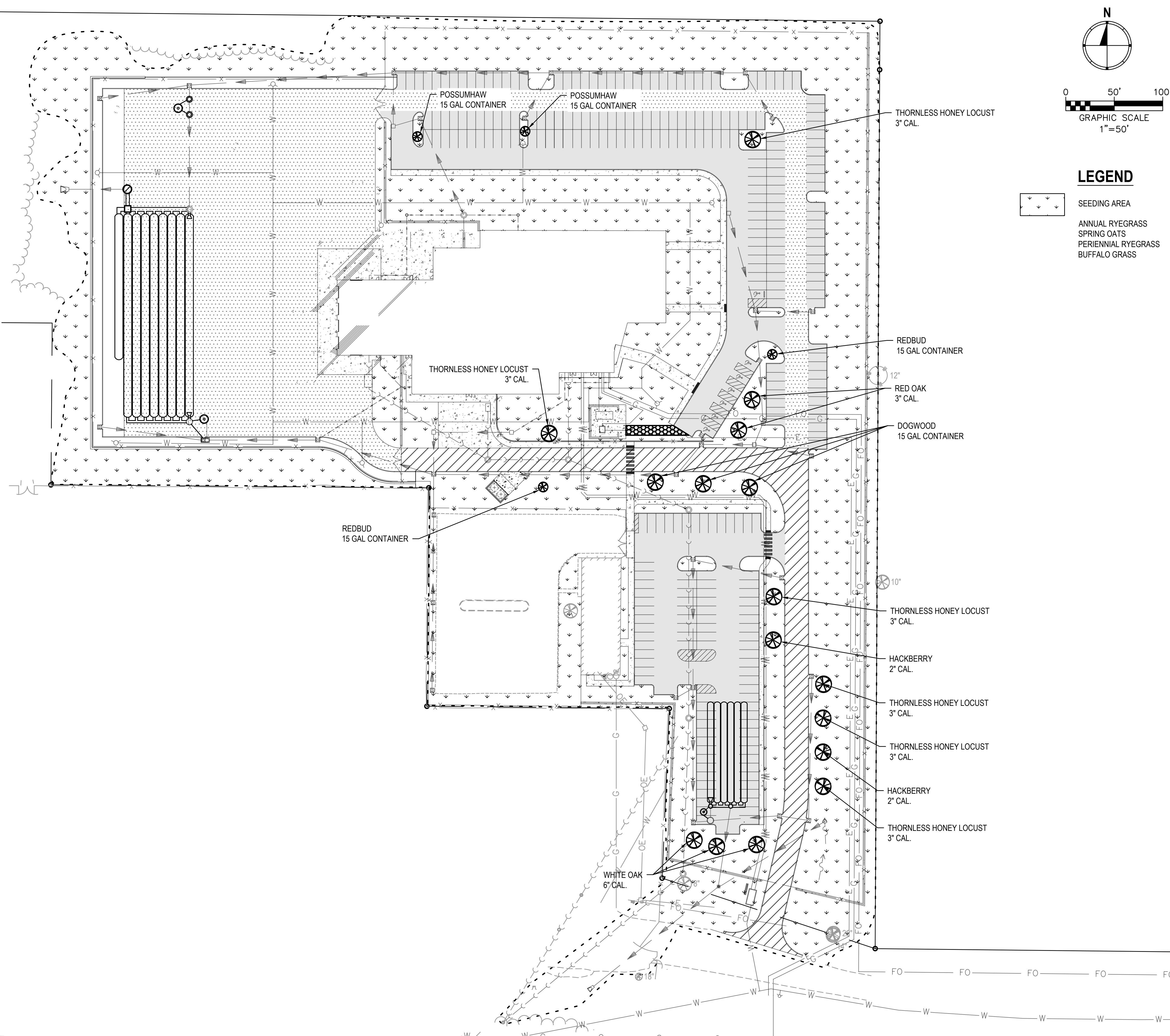
C601

61 OF 272 SHEETS
05/03/2024



LEGEND

	SEEDING AREA	
	ANNUAL RYEGRASS	20 LBS / ACRE
	SPRING OATS	15 LBS / ACRE
	PERENNIAL RYEGRASS	15 LBS / ACRE
	BUFFALO GRASS	25 LBS / ACRE





DATE: 05/03/2024
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DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF PUBLIC SAFETY

MISSOURI ARMY NATIONAL GUARD

CONSTRUCT BELLEFONTAINE READINESS CENTER FACILITY NUMBER

10625 LEWIS & CLARK BLVD, ST. LOUIS, MO 63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: AJN
CHECKED BY: MYS
DESIGNED BY: AJN

SHEET TITLE:
Storm Water Pollution Prevention Plan

SHEET NUMBER:

C701
62 OF 272 SHEETS
05/03/2024

PROJECT NAME:

MISSOURI NATIONAL GUARD READINESS CENTER SECTION 32, TOWNSHIP 47 NORTH, RANGE 7 EAST
10601 LEWIS AND CLARK BOULEVARD
SAINT LOUIS, MISSOURI 63136

OWNER NAME & ADDRESS:

STATE OF MISSOURI
1590 WOODLAKE DRIVE
CHESTERFIELD, MISSOURI 63017

DESCRIPTION:

SOIL DISTURBING ACTIVITIES WILL INCLUDE: DEMOLITION, CLEARING, TREE REMOVAL, MASS GRADING, FINE GRADING.

WATERSHED SOIL CLASSIFICATION: HYDROLOGIC SOIL GROUP "C".

EROSION CONTROL MEASURES SHALL INCLUDE: INSTALLING PERIMETER SILT FENCE AND PIPE PROTECTION

SITE AREA:

THE DISTURBED AREA OF THE SITE IS APPROXIMATELY 12.8 ACRES.

THE SEQUENCE OF MAJOR ACTIVITIES SHALL BE AS FOLLOWS:

1. PERFORM REMOVALS
2. INSTALL PERIMETER SILT FENCE AND SEDIMENT BASIN
3. CLEAR
4. MASS GRADE.
5. STABILIZE DENUDED AREA AND STOCKPILES WITH TEMPORARY SEEDING WITHIN 14 DAYS OF THE LAST GRADING ACTIVITY IN THAT AREA.
6. INSTALL UNDERGROUND DETENTION AND STORM SEWER
7. INSTALL PIPE PROTECTION ON NEW OUTLETS.
8. INSTALL ALL UNDERGROUND UTILITIES.
9. COMPLETE FINE GRADING AND INSTALL PERMANENT GRASSING AND PLANTINGS.
10. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND ALL VEGETATION IS ESTABLISHED, REMOVE ALL EROSION CONTROL MEASURES, AND RE-GRASS ANY AREAS DISTURBED BY THEIR REMOVAL.

NAME OF RECEIVING WATERS:

ALL STORM WATER DISCHARGE FROM THIS PROJECT IS DIRECTED TO AN UNNAMED TRIBUTARY TO MALINE CREEK.

OFFSITE VEHICLE TRACKING:

PAVED STREETS ADJACENT TO THE SITE SHALL BE CLEANED AS NECESSARY WHEN MUD ACCUMULATES. CLEANING SHALL INCLUDE SCRAPING SIGNIFICANT AMOUNTS OF SOIL AND POWER SWEEPING AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE.

TIMING OF CONTROL MEASURES:

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES PERIMETER SILT FENCE SHALL BE CONSTRUCTED AT THE COMMENCEMENT OF THE SEQUENCE OF GRADING OPERATIONS AS PRACTICAL. AREAS WHERE CONSTRUCTION ACTIVITY WILL TEMPORARILY CEASE FOR MORE THAN 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING AND MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE.

TEMPORARY SEEDING SHALL CONSIST OF RYE OR WHEAT APPLIED AT A RATE OF 120 POUNDS PER ACRE. 1000 POUNDS OF 10-10-10 FERTILIZER SHALL BE APPLIED TO EACH ACRE. AFTER SEEDING, STRAW MULCH SHALL BE APPLIED AT A RATE OF 4000 POUNDS PER ACRE AND ANCHORED BY CRIMPING.

ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA SHALL BE STABILIZED WITH PERMANENT SEEDING. PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH PART 8, SECTION F OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL INSPECT AND REMOVE ANY LOOSE MATERIAL THAT IS DEPOSITED IN THE FLOW LINES OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. TO ENSURE THAT THE NATURAL FLOW LINE OF WATER IS NOT OBSTRUCTED. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.

AT THE CONCLUSION OF EACH DAY, THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE TO AN AREA PROTECTED BY EROSION CONTROLS. SITE DRAINAGE MAY BE ACHIEVED BY SHEET FLOW, STORM SEWERS, DITCHING OR PUMPING.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS:

THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE METROPOLITAN ST. LOUIS SEWER DISTRICT (MSD) AND BELLEFONTAINE NEIGHBORS MUNICIPAL CODE REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL. TO ENSURE COMPLIANCE, THIS PLAN WAS PREPARED IN ACCORDANCE WITH MSD AND THE REQUIREMENTS OF THE NPDES PERMIT PROGRAM.

MAINTENANCE/INSPECTION PROCEDURES:

THE GENERAL CONTRACTOR SHALL SELECT UP TO THREE INDIVIDUALS WHO SHALL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

PERSONNEL SELECTED FOR INSPECTION RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY SHALL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS:

ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY RAINFALL EVENT OF 0.5 INCHES OR GREATER. DURING PERIODS OF EXTENDED RAINFALL, ALL MEASURES SHALL BE INSPECTED DAILY.

ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCES AND STRAW BALE DIKES WHEN IT HAS REACHED ONE-THIRD THE DESIGN HEIGHT OF THE FENCE OR BALE.

SEDIMENTATION BASINS SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT REACHES 50 PERCENT OF THE DESIGN DEPTH OF THE BASIN.

TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND UNHEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION. ALL INSPECTION REPORTS SHALL BE KEPT IN THE CONSTRUCTION OFFICE ON-SITE. IF THE PROVIDED FORM IS INSUFFICIENT, ADDITIONAL FORMS SHALL BE USED AS NECESSARY UNTIL THE PROJECT IS COMPLETED. A REPORT SHALL BE COMPLETED FOR EACH OF THE REQUIRED INSPECTION INTERVALS.

NON-STORM WATER DISCHARGES

IT IS ANTICIPATED THAT SOME NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD. ALL NON-STORM WATER DISCHARGES SHALL BE DIRECTED TO THE SEDIMENT BASINS PRIOR TO DISCHARGE.

ANTICIPATED NON-STORM DISCHARGES EXPECTED INCLUDE, PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED), AND UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS:

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED. ANY BITUMINOUS SUBSTANCES USED ONSITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS:

FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE SHALL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

INSPECTION AND MAINTENANCE REPORT FORM

DATE / TIME	INSPECTORS NAME	WEATHER CONDITIONS	RAINFALL LAST 24 HRS.	IS SEDIMENT TRACKED ON TO ROAD	DEPTH OF SILT ON SILT FENCES	DEPTH OF SILT AGAINST DITCH CHECKS	CONDITION OF BASIN SIDE SLOPES	DEPTH OF SILT AGAINST ROCK DAM	ACTION REQUIRED	CONTRACTOR		
										CONTRACTOR'S NAME	CONTRACTOR'S SIGNATURE	DATE OF ACTION

CONTRACTOR CERTIFICATION STATEMENT

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION. I HAVE READ AND UNDERSTAND ALL OF THE INFORMATION AND REQUIREMENTS STATED IN THE STORM WATER POLLUTION PREVENTION PLAN FOR THE ABOVE MENTIONED PROJECT. I HAVE PROVIDED ALL DOCUMENTATION REQUIRED TO BE IN COMPLIANCE WITH THE MO 780-2914 FORM AND STORM WATER POLLUTION PREVENTION PLAN AND WILL PROVIDE TIMELY UPDATES TO THESE DOCUMENTS AS NECESSARY.

PRINT NAME

SIGNATURE

STREET ADDRESS

TITLE

DATE

CITY/STATE/ZIP

NAME OF FIRM

TELEPHONE



DATE: 05/03/2024
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PROJECT # T2150-01
SITE # 6322
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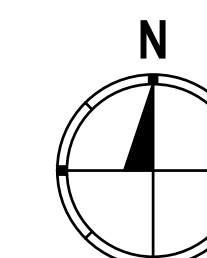
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CHECKED BY: MYS
DESIGNED BY: AJN

SHEET TITLE:
**Storm Water
Pollution Prevention
Plan**

SHEET NUMBER:


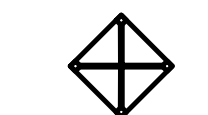


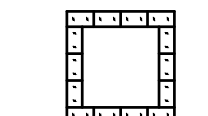


C702

63 OF 272 SHEETS
05/03/2024



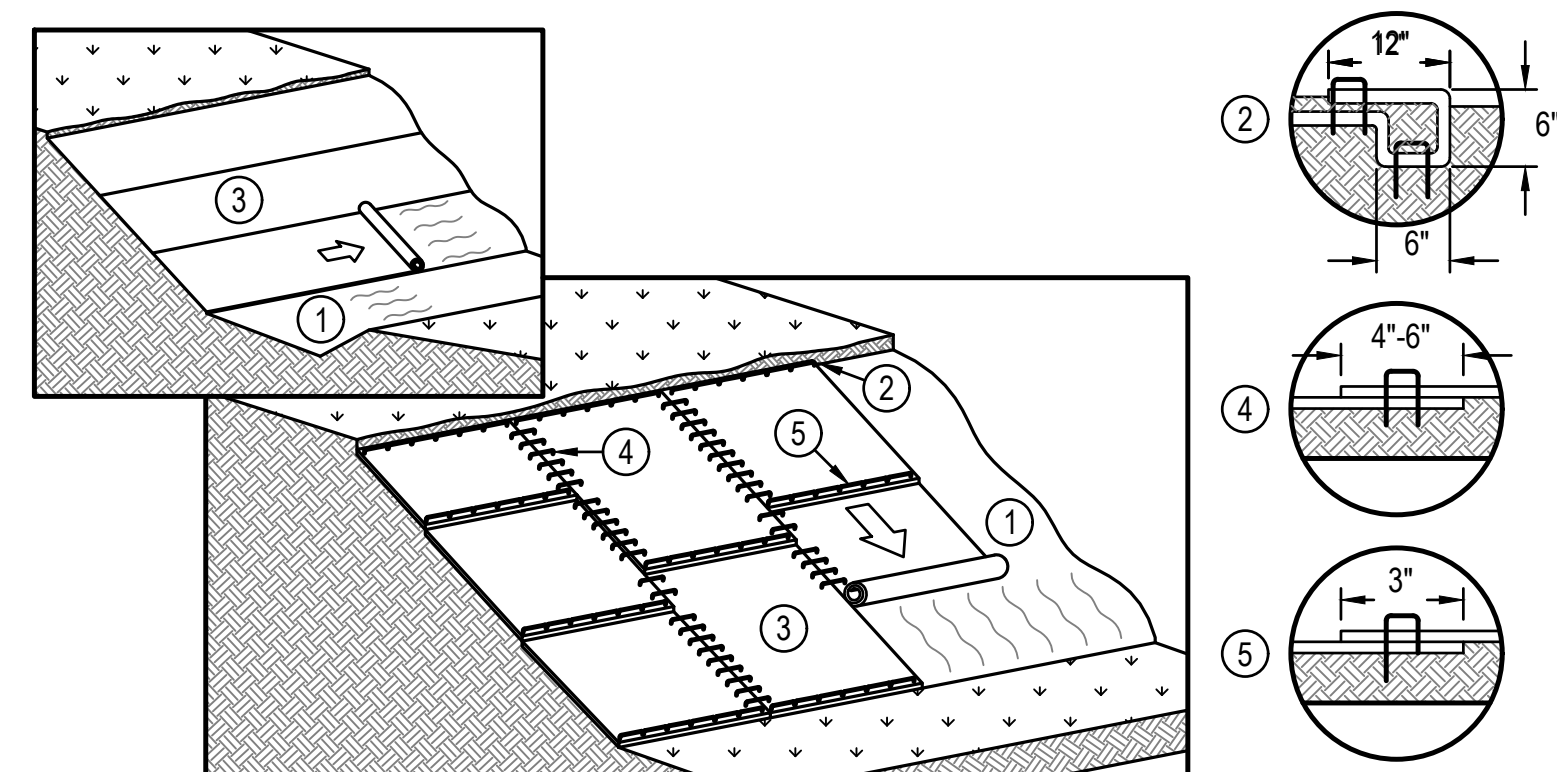
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GRAPHIC SCALE
1"=50'

LEGEND

-  NEW PERIMETER EROSION BARRIER, SEE DETAIL 3 ON SHEET C703
-  NEW INLET PROTECTION, SEE DETAIL 1 ON SHEET C703 OR
NEW CURB INLET PROTECTION, SEE DETAIL 2 ON SHEET C703
-  TEMPORARY DITCH CHECK, SEE DETAIL 6 ON SHEET C703
-  NEW STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 4 ON SHEET C703
-  NEW TEMPORARY CONCRETE WASHOUT SEDIMENT BASIN, SEE DETAIL 5 ON SHEET C703
-  SITE ACCESS LOCATION. CONSTRUCTION DELIVERIES ARE DIRECTED TO USE THIS LOCATION TO ACCESS THE SITE
-  EROSION CONTROL BLANKET, SEE DETAIL 1 ON SHEET C702

EROSION CONTROL PLAN NOTES

1. ALL EROSION CONTROL ITEMS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE LOCAL GOVERNING BODIES INCLUDING MODNR AND MSD.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO PREVENT STORM WATER RUNOFF FROM THE SITE. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
3. CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES. CONTRACTOR SHALL WATER SITE FREQUENTLY AS NEEDED.
4. EROSION CONTROL SHALL BE REMOVED AND RE-ERECTED AS NEEDED FOR THE PHASING THROUGH THE ENTIRETY OF CONSTRUCTION.



1. PREPARE FINISHED GRADE BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED ACCORDING TO THE SPECIFICATIONS.
2. ANCHOR THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH AT THE TOP OF THE SLOPE WITH A ROW OF LANDSCAPE STAPLES AT 12" SPACING IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. SEED THE SOIL AND FOLD THE REMAINING 12" LONG BLANKET REMNANT BACK OVER SEED AND TOP SOIL. ANCHOR THE BLANKET OVER COMPACTED TOP SOIL WITH A ROW OF LANDSCAPE STAPLES SPACED AT 12" SPACING ACROSS THE BLANKET AT THE TOP OF THE SLOPE.
3. ROLL THE BLANKETS DOWN (OPTION A) OR HORIZONTALLY (OPTION B) ACROSS THE SLOPE. UNROLL BLANKETS WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. SECURELY FASTEN BLANKETS TO SOIL BY PLACING LANDSCAPE STAPLES PER MANUFACTURER'S RECOMMENDATION.
4. STAPLE THE EDGES OF PARALLEL BLANKETS WITH A MINIMUM 6" OVERLAP OR PER MANUFACTURER'S RECOMMENDATIONS.
5. SPLICE BLANKETS END OVER END WITH A 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA AT 12" SPACING THE ACROSS ENTIRE BLANKET WIDTH OR PER MANUFACTURER'S SPECIFICATIONS.
6. TERMINAL ENDS SHALL BE ANCHORED WITH A ROW OF LANDSCAPE STAPLES SPACED 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL, COMPACT, AND SEED THE TRENCH WITH TOPSOIL AFTER STAPLING.

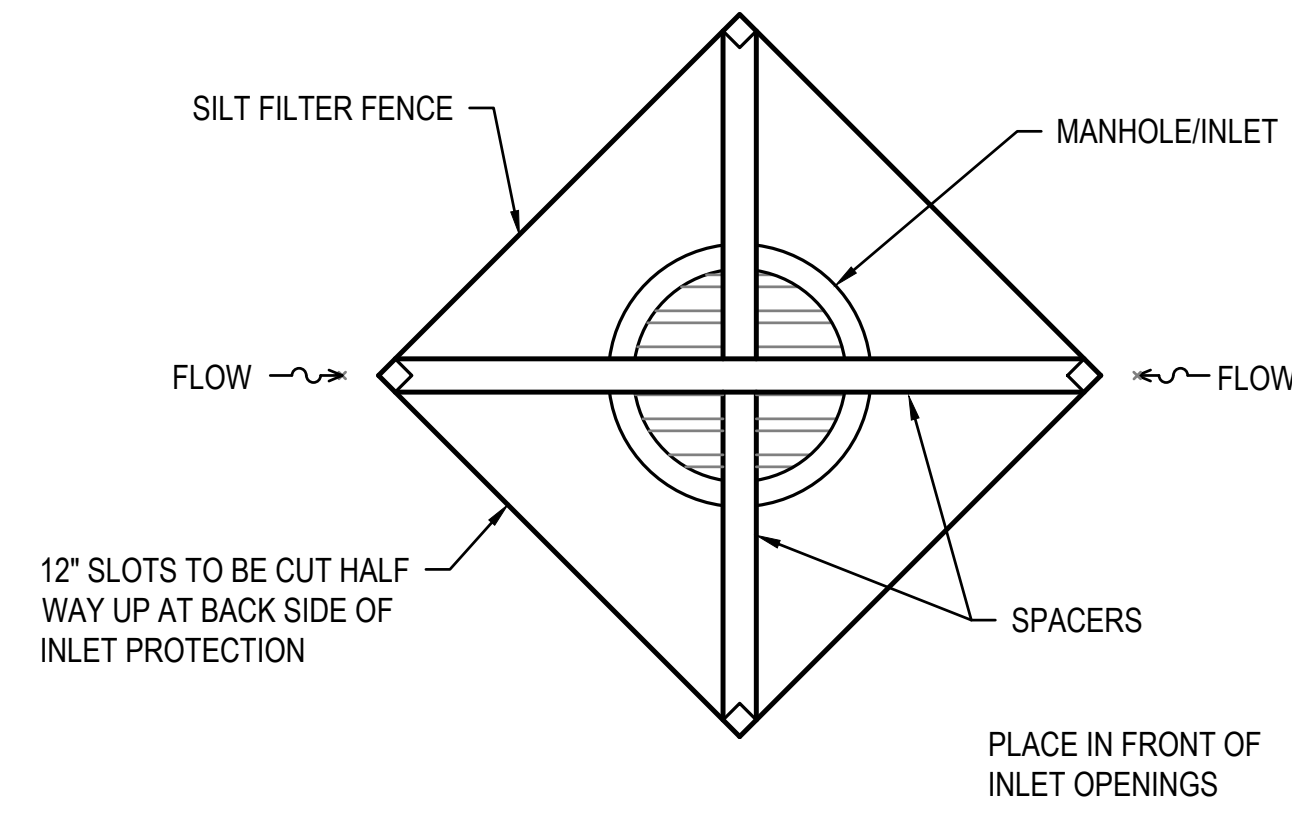
NOTES:

1. PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.
2. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
3. FOLLOW SPECIFICATIONS FOR PRODUCT SELECTION.

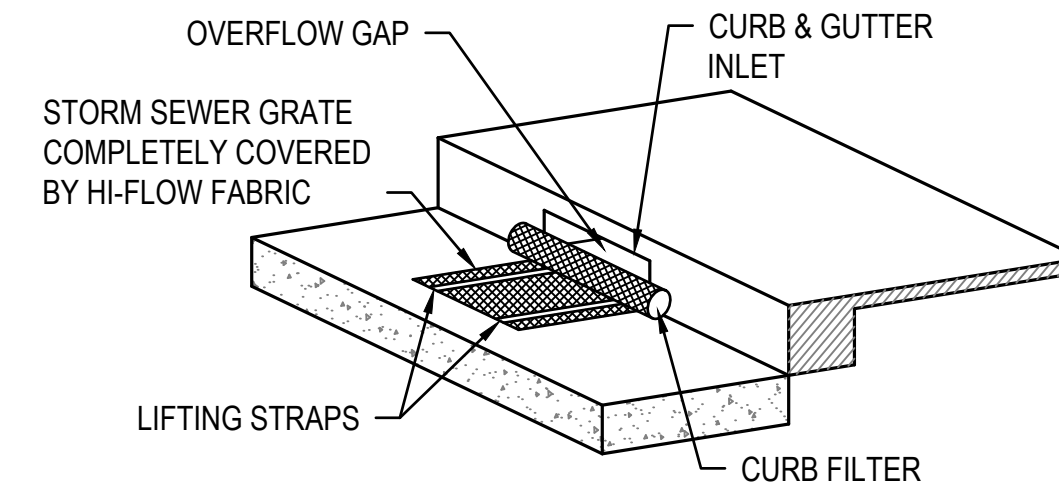
1 **EROSION CONTROL BLANKETS FOR SLOPES**
SCALE: NO SCALE

NOTES:

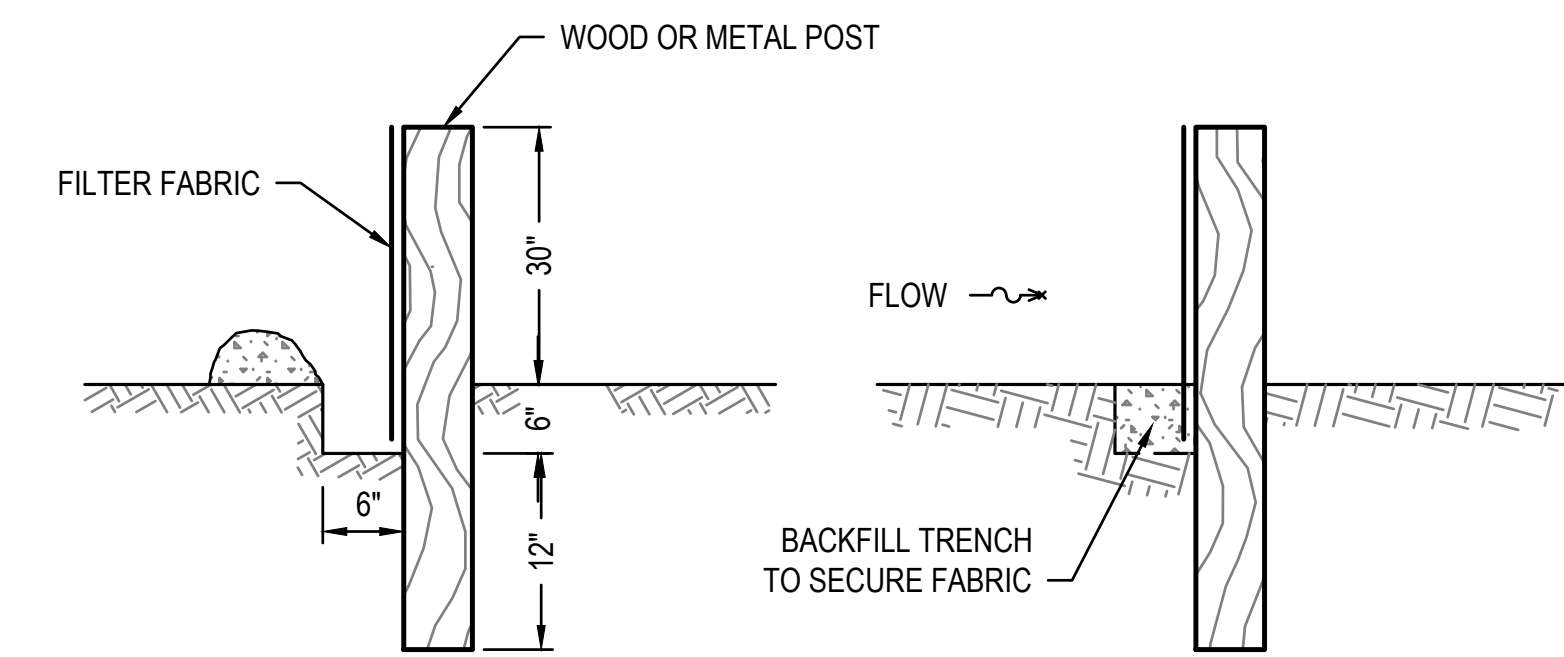
1. THE GENERAL CONTRACTOR SHALL INSPECT THE WASHOUT AREA WEEKLY.
2. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4 INCHES.
3. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHOULD BE REMOVED AND DISPOSED OF.
4. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.



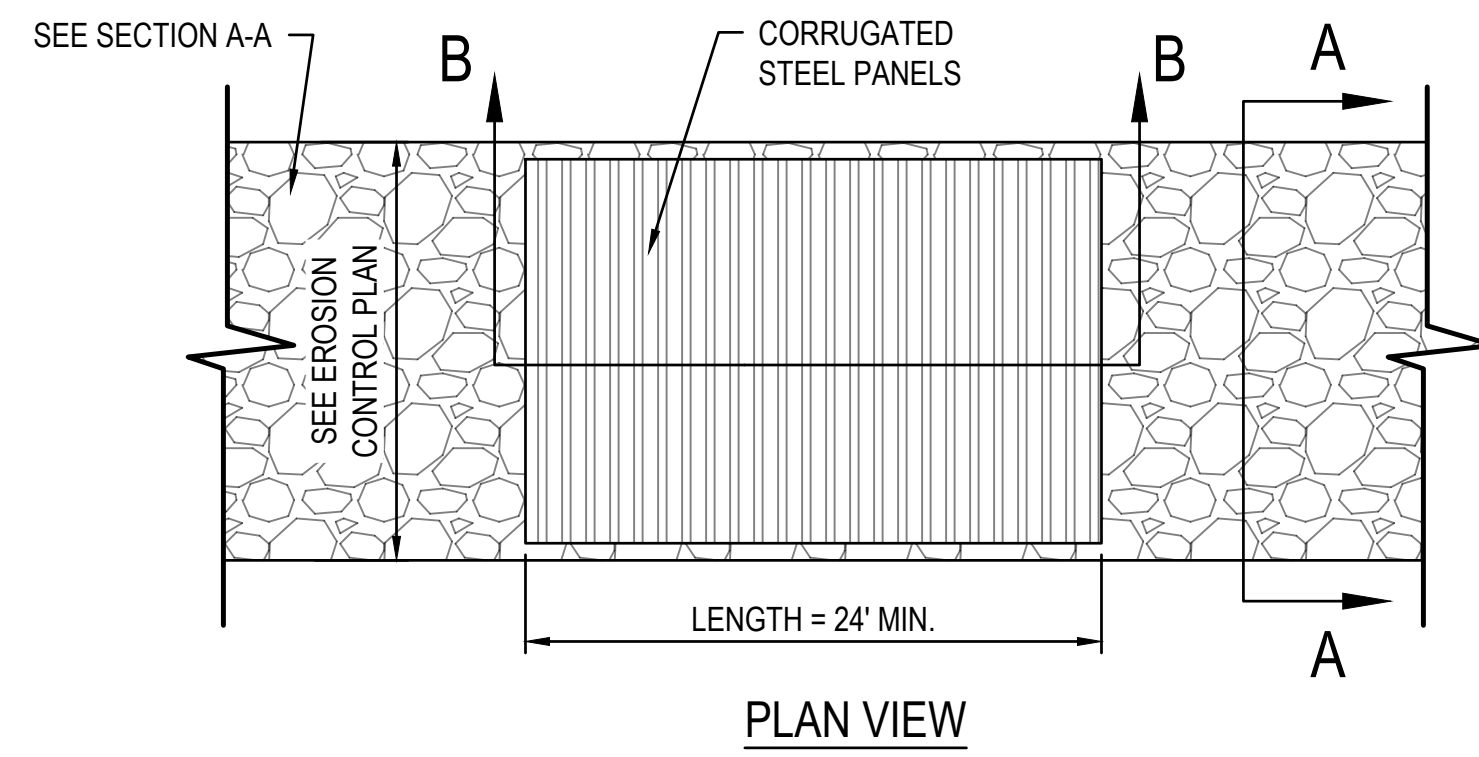
1 **INLET PROTECTION**
SCALE: NO SCALE



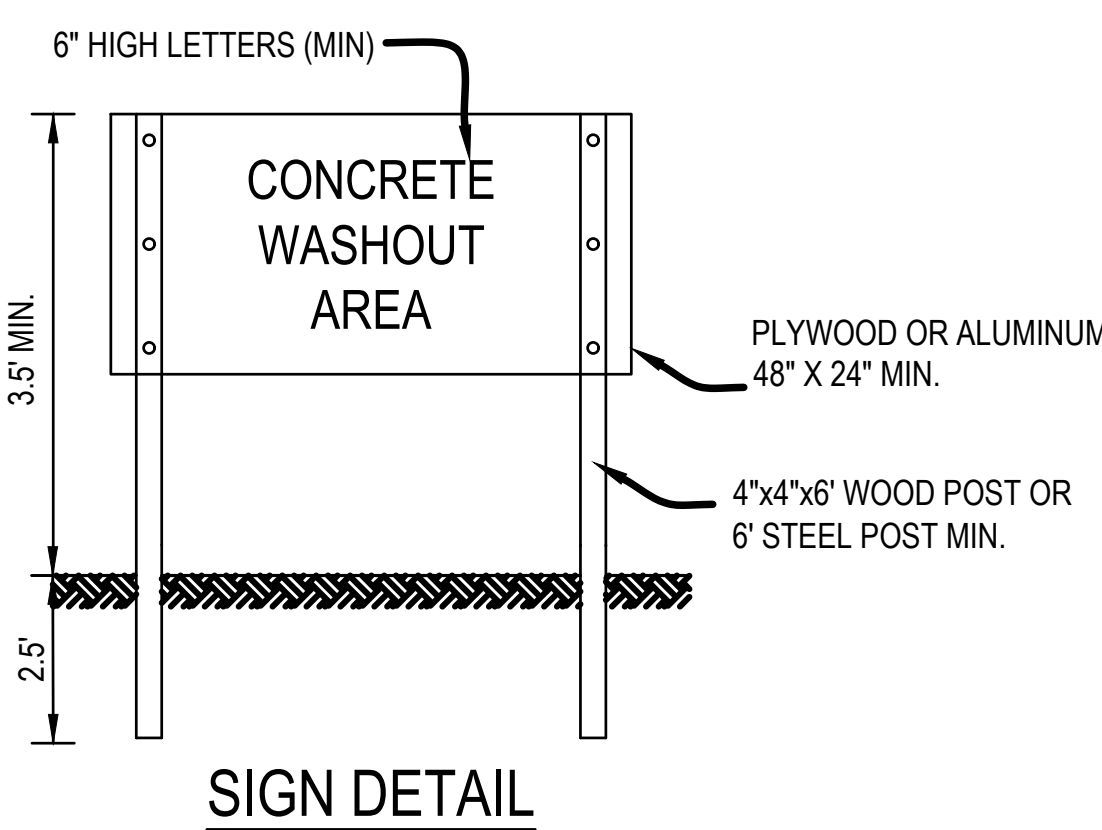
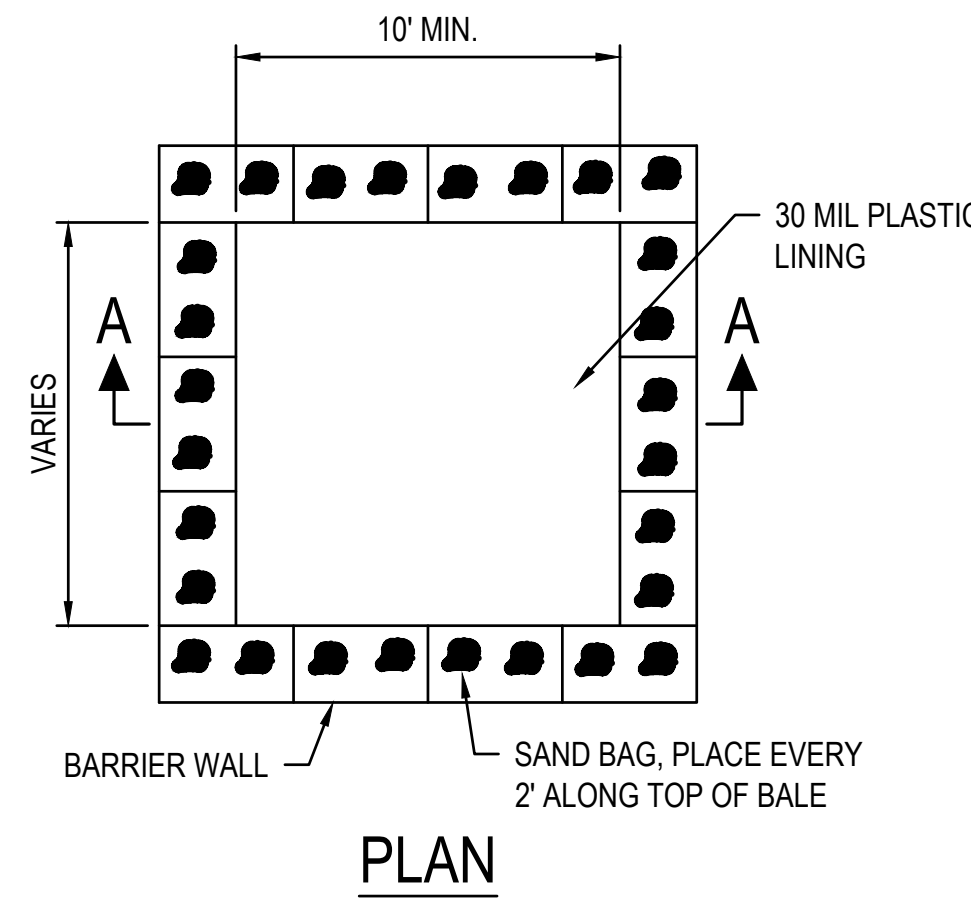
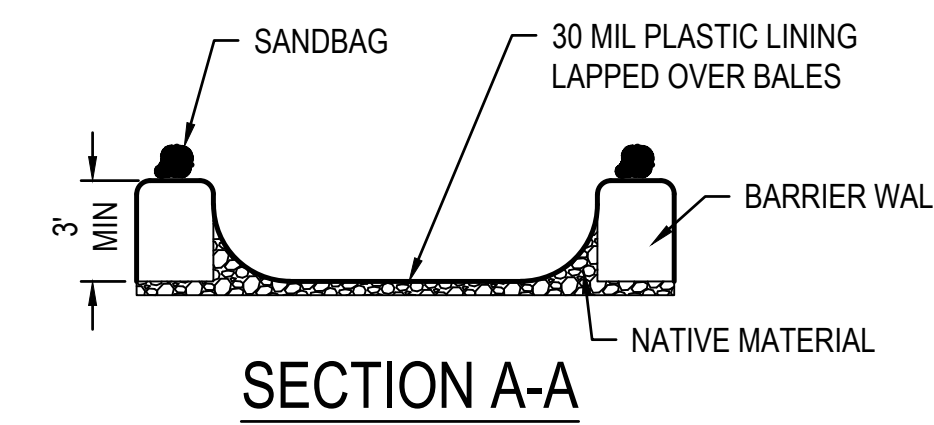
2 **CURB INLET PROTECTION**
SCALE: NO SCALE



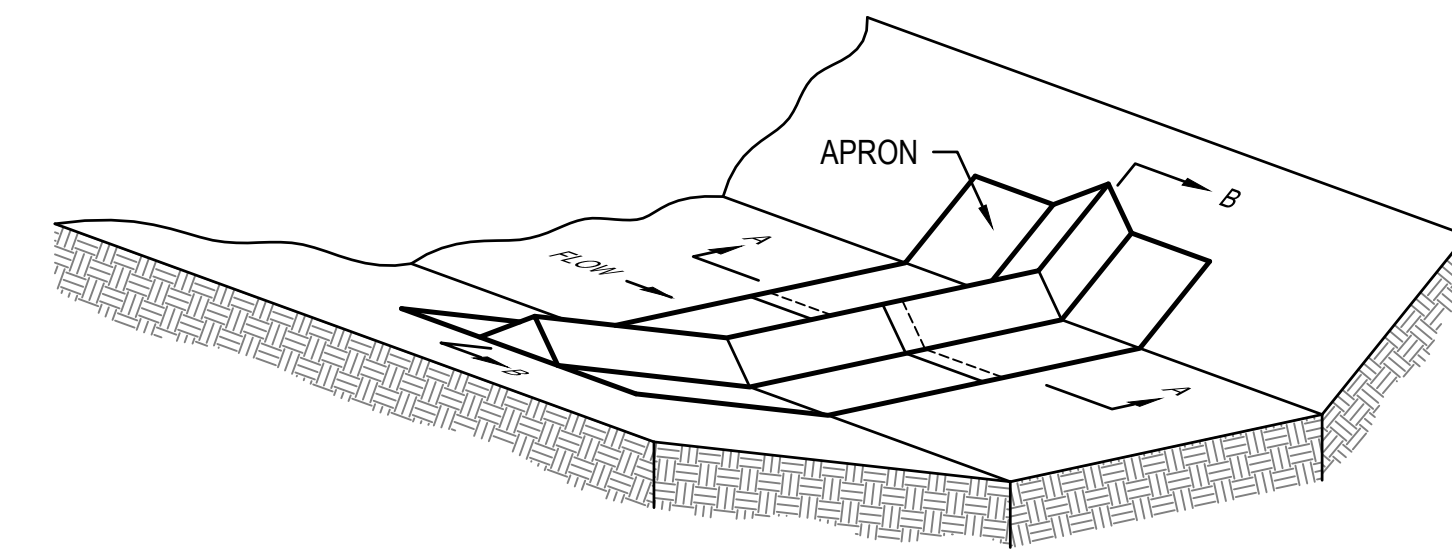
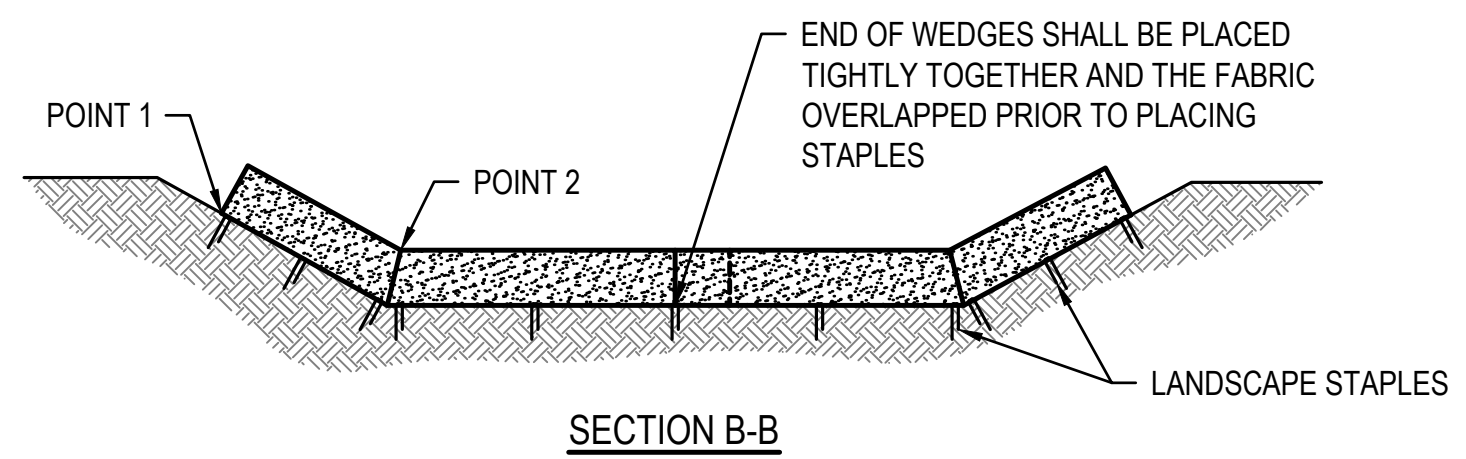
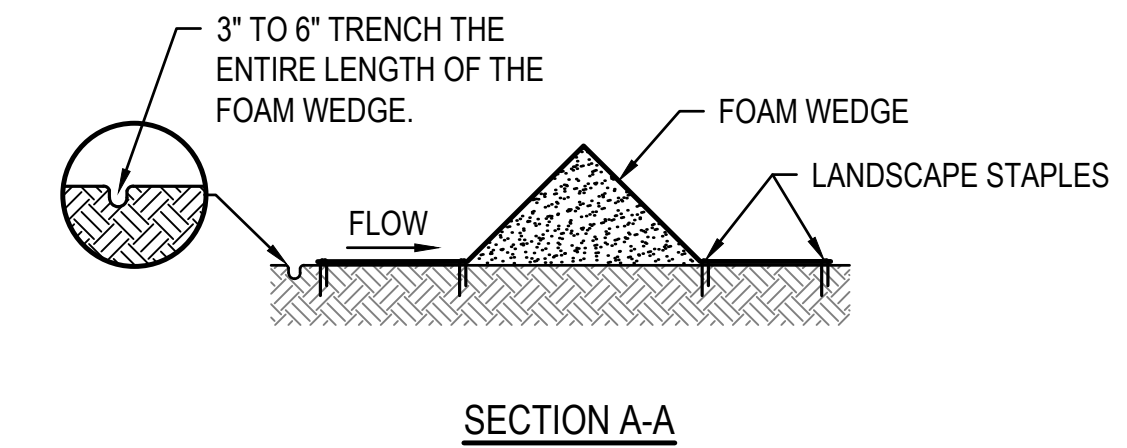
3 **SILT FILTER FENCE AS A PERIMETER EROSION BARRIER**
SCALE: NO SCALE



4 **STABILIZED CONSTRUCTION ENTRANCE**
SCALE: NO SCALE



5 **CONCRETE WASHOUT**
SCALE: NO SCALE

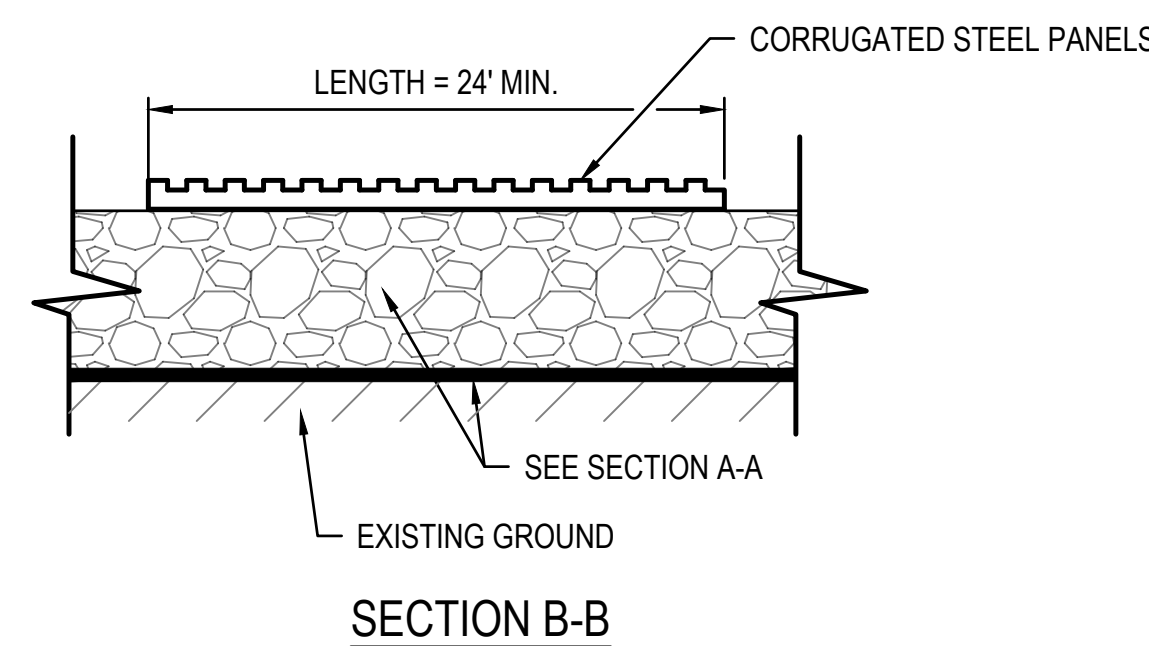
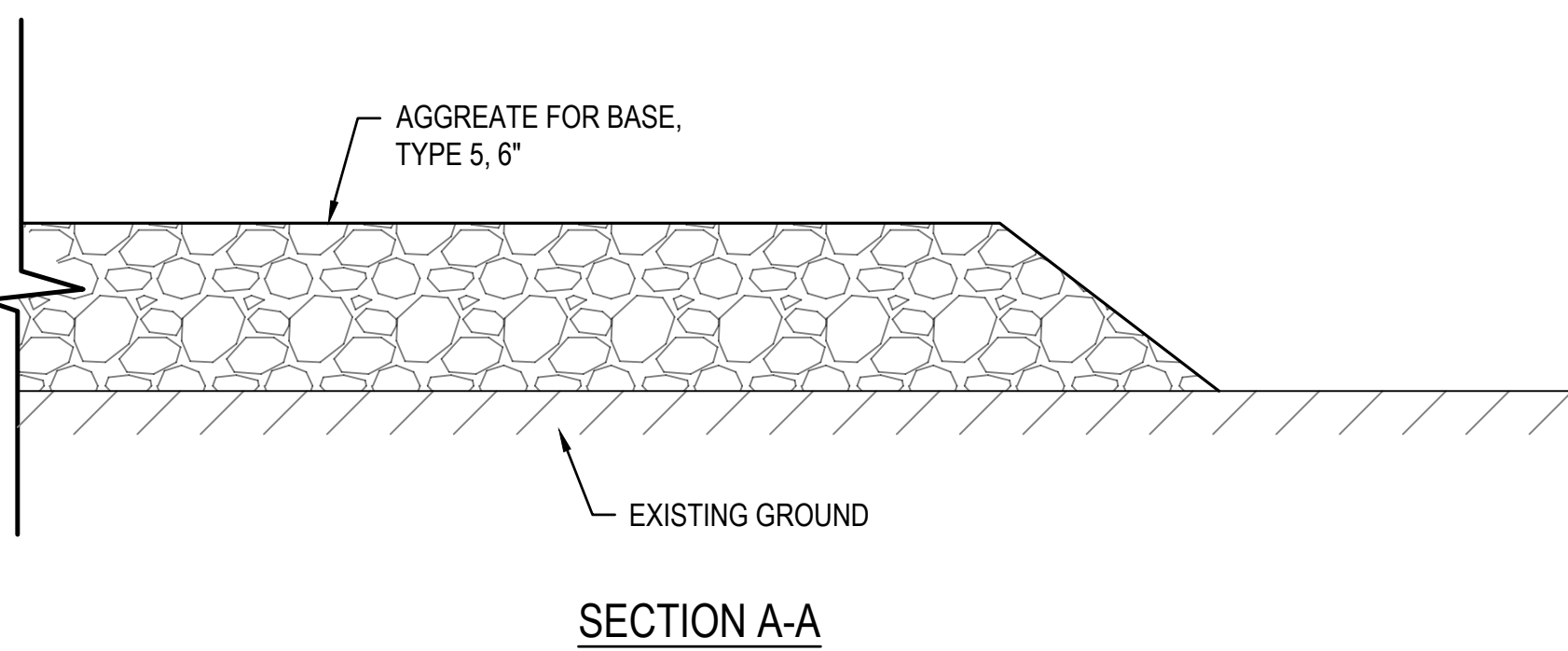


NOTE:
POINT 1 SHALL BE HIGHER THAN POINT 2 TO ALLOW WATER TO RUN OVER THE WEDGES AND NOT AROUND THE ENDS.

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT AS SHOWN IN THE DETAIL.

IN THE SUMMARY OF QUANTITIES, SCHEDULES, OR PLANS, THE QUANTITY \"EACH\" REFERS TO EACH LOCATION. THE CONTRACTOR SHALL INSTALL THE NUMBER OF INDIVIDUAL FOAM WEDGES REQUIRED TO ENSURE THAT POINT 1 IS HIGHER THAN POINT 2

6 **TEMPORARY DITCH CHECK**
SCALE: NO SCALE



NOTE: CONTRACTOR SHALL GRADE CONSTRUCTION ENTRANCE TO PROPOSED GRADES FOR NEW ENTRANCE SEE PAVEMENT THICKNESS. THE CONSTRUCTION ENTRANCE SHALL BE USED AS THE NEW BASE FOR THE ROAD / PARKING LOT. THE AGGREGATE BASE COURSE SHALL BE FREE OF ALL MUD AND DEBRIS AND RE-SHAPED PRIOR TO PAVING, UPON APPROVAL FROM OWNER'S REPRESENTATIVE.



DATE: 05/03/2024
EXPIRES: 12/31/2025



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10625 LEWIS & CLARK
BLVD, ST. LOUIS, MO
63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: AJN
CHECKED BY: MYS
DESIGNED BY: AJN

SHEET TITLE:
**Storm Water
Pollution Prevention
Plan**

SHEET NUMBER:

C703

64 OF 272 SHEETS
05/03/2024

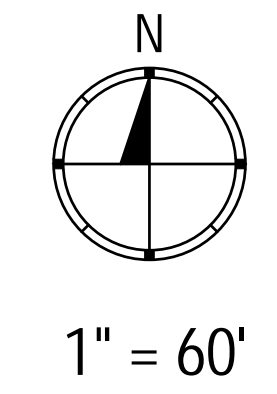
LEGEND

- OVERALL EXISTING DRAINAGE AREAS (INCLUDES OFFSITE)
- OVERALL DISTURBED AREAS
- ← FLOW PATH DISCHARGE FROM SITE

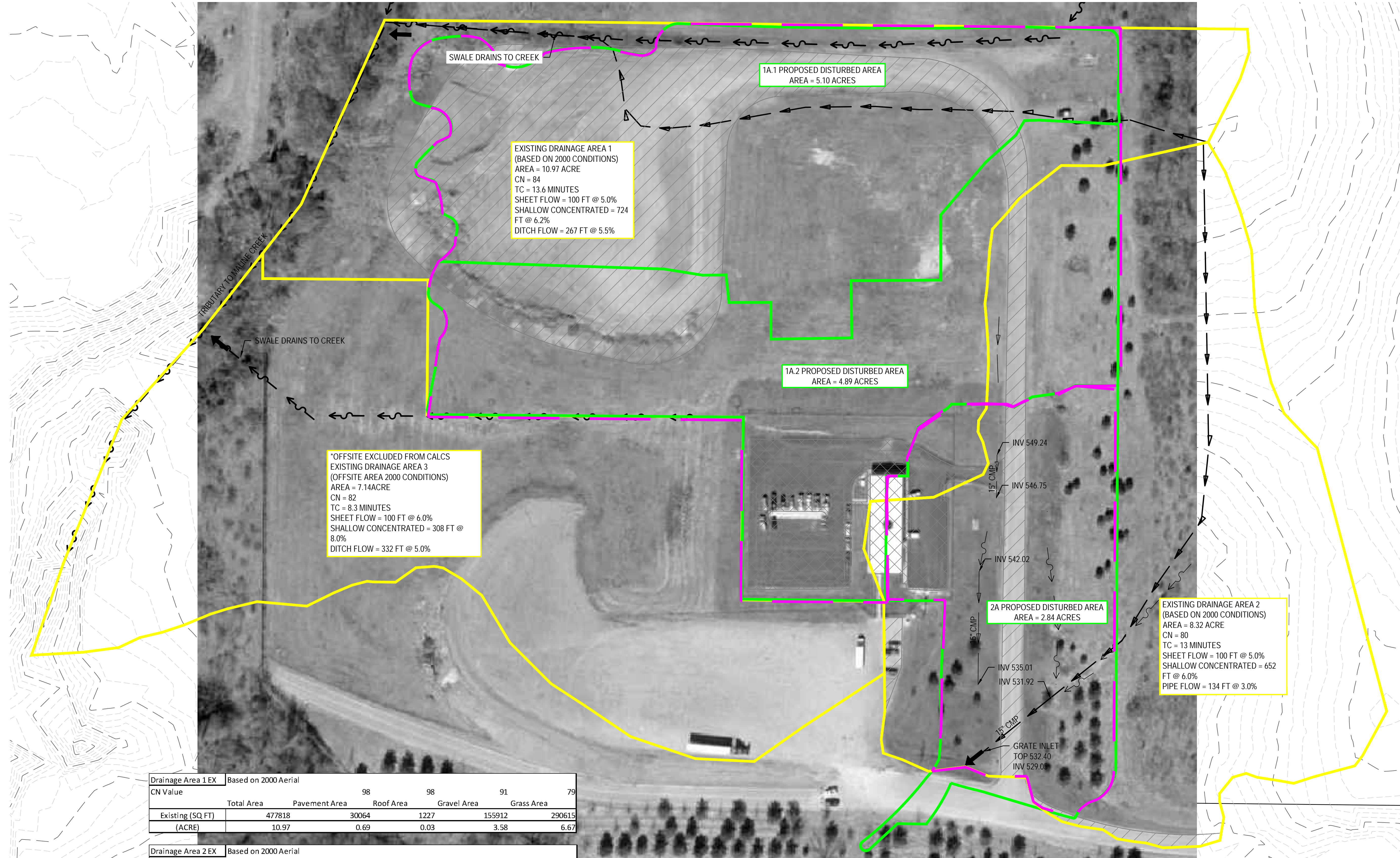
EXISTING DRAINAGE AREA WITHIN THE DISTURBED AREAS



EXISTING DRAINAGE AREAS									
Area #	Area - Impervious (100%)		Area - Pervious Pavement (5%)		Area - Grass (5%)		TOTAL AREA (DISTURBED)		
	SF	AC	SF	AC	SF	AC	SF	AC	
EX 1A.1	31291	0.72	0	0.00	200482	4.60	231773	5.32	
EX 1A.2	110298	2.53	0	0.00	100574	2.31	210872	4.84	
EX 1A TOTAL	141589	3.25	0	0.00	301056	6.91	442645	10.16	
EX 2A TOTAL	33702	0.77	0	0.00	82243	1.89	115945	2.66	
EX COMBINED TOTAL	175291	4.02	0	0.00	383299	8.80	558590	12.82	



2000 AERIAL



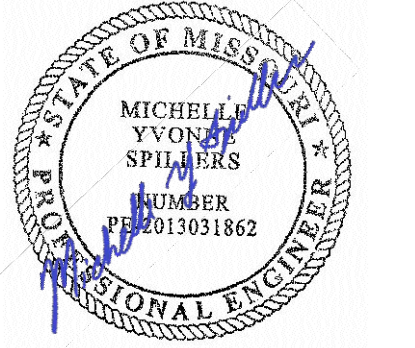
EXISTING DRAINAGE AREA 1
(BASED ON 2000 CONDITIONS)
AREA = 10.97 ACRE
CN = 84
TC = 13.6 MINUTES
SHEET FLOW = 100 FT @ 5.0%
SHALLOW CONCENTRATED = 724 FT @ 6.2%
DITCH FLOW = 267 FT @ 5.5%

*OFFSITE EXCLUDED FROM CALCS
EXISTING DRAINAGE AREA 3
(OFFSITE AREA 2000 CONDITIONS)
AREA = 7.14 ACRE
CN = 82
TC = 8.3 MINUTES
SHEET FLOW = 100 FT @ 6.0%
SHALLOW CONCENTRATED = 308 FT @ 8.0%
DITCH FLOW = 332 FT @ 5.0%

EXISTING DRAINAGE AREA 2
(BASED ON 2000 CONDITIONS)
AREA = 8.32 ACRE
CN = 80
TC = 13 MINUTES
SHEET FLOW = 100 FT @ 5.0%
SHALLOW CONCENTRATED = 652 FT @ 6.0%
PIPE FLOW = 134 FT @ 3.0%

Drainage Area 1 EX		Based on 2000 Aerial				
CN Value	Total Area	Pavement Area	Roof Area	Gravel Area	Grass Area	
Existing (SQ FT)	477818	30064	1227	155912	290615	
(ACRE)	10.97	0.69	0.03	3.58	6.67	

Drainage Area 2 EX		Based on 2000 Aerial				
CN Value	Total Area	Pavement Area	Roof Area	Gravel Area	Grass Area	
Existing (SQ FT)	362385	7166	3648	22888	328683	
(ACRE)	8.32	0.16	0.08	0.53	7.55	



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EXPIRES: 12/31/2025



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BLVD, ST. LOUIS, MO
63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: _____
CHECKED BY: _____
DESIGNED BY: _____

SHEET TITLE:
Existing Conditions
Drainage Map

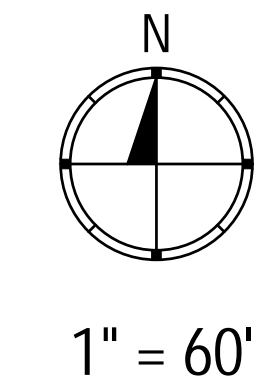
SHEET NUMBER:

C801

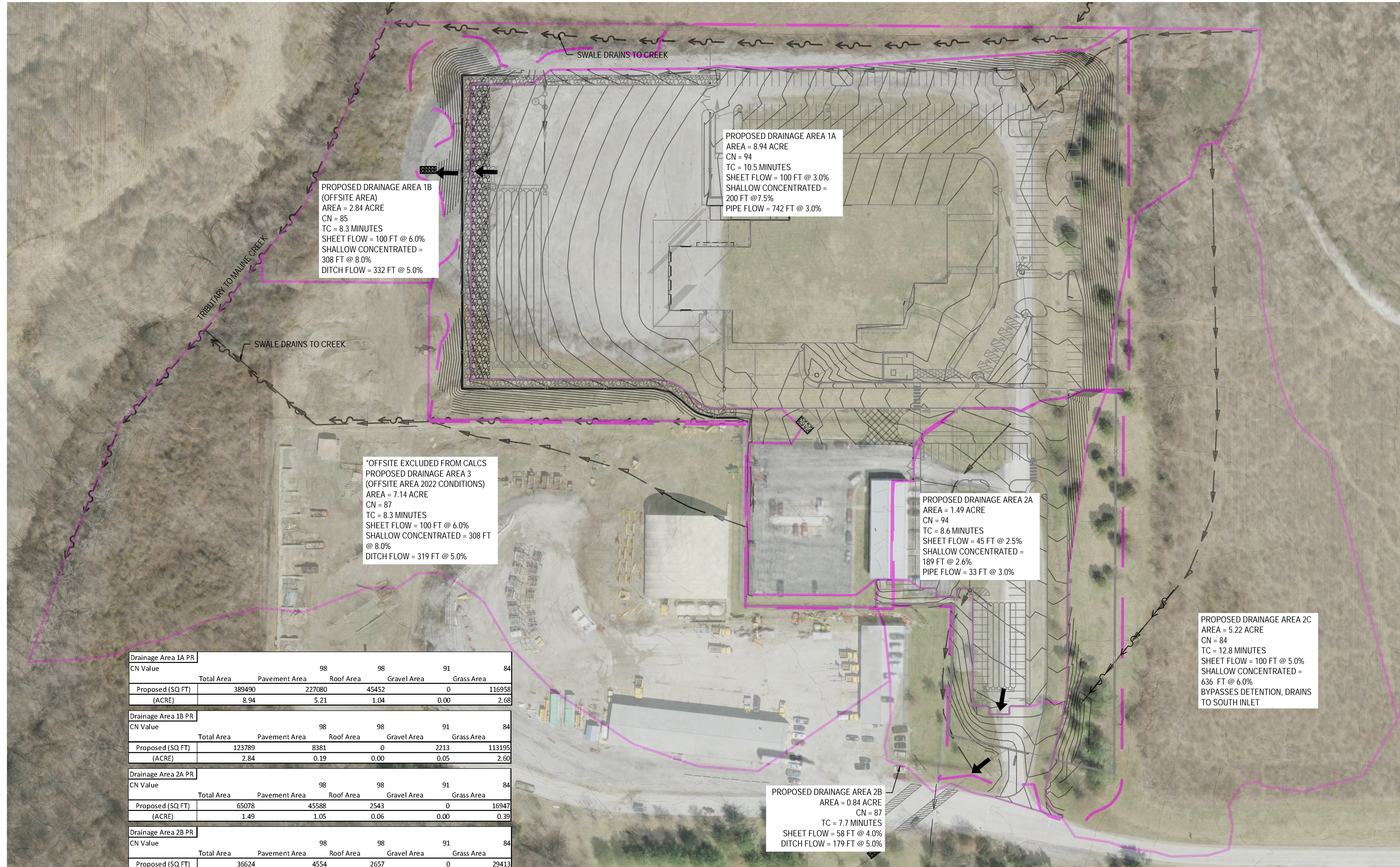
65 OF 272 SHEETS
05/03/2024

LEGEND

- OVERALL PROPOSED DRAINAGE AREAS
- ← FLOW PATH DISCHARGE FROM SITE
- FUTURE PAVEMENT



NOTE: FUTURE PAVEMENT AND PROPOSED AGGREGATE AREAS WERE ASSUMED TO BE FULLY PAVED FOR RUNOFF CALCULATIONS.



PROPOSED DRAINAGE AREA 1B
(OFFSITE AREA)
AREA = 2.84 ACRE
CN = 85
TC = 8.3 MINUTES
SHEET FLOW = 100 FT @ 6.0%
SHALLOW CONCENTRATED =
308 FT @ 8.0%
DITCH FLOW = 332 FT @ 5.0%

PROPOSED DRAINAGE AREA 1A
AREA = 8.94 ACRE
CN = 94
TC = 10.5 MINUTES
SHEET FLOW = 100 FT @ 3.0%
SHALLOW CONCENTRATED =
200 FT @ 7.5%
PIPE FLOW = 742 FT @ 3.0%

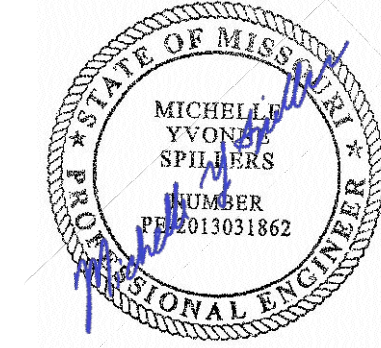
*OFFSITE EXCLUDED FROM CALCS
PROPOSED DRAINAGE AREA 3
(OFFSITE AREA 2022 CONDITIONS)
AREA = 7.14 ACRE
CN = 87
TC = 8.3 MINUTES
SHEET FLOW = 100 FT @ 6.0%
SHALLOW CONCENTRATED = 308 FT
@ 8.0%
DITCH FLOW = 319 FT @ 5.0%

PROPOSED DRAINAGE AREA 2A
AREA = 1.49 ACRE
CN = 94
TC = 8.6 MINUTES
SHEET FLOW = 45 FT @ 2.5%
SHALLOW CONCENTRATED =
189 FT @ 2.6%
PIPE FLOW = 33 FT @ 3.0%

PROPOSED DRAINAGE AREA 2C
AREA = 5.22 ACRE
CN = 84
TC = 12.8 MINUTES
SHEET FLOW = 100 FT @ 5.0%
SHALLOW CONCENTRATED =
636 FT @ 6.0%
BYPASSES DETENTION, DRAINS
TO SOUTH INLET

PROPOSED DRAINAGE AREA 2B
AREA = 0.84 ACRE
CN = 87
TC = 7.7 MINUTES
SHEET FLOW = 58 FT @ 4.0%
DITCH FLOW = 179 FT @ 5.0%

Drainage Area 1A PR						
CN Value	Total Area	Pavement Area	Roof Area	Gravel Area	Grass Area	
98	98	91	84			
Proposed (SQ FT)	389490	227080	45452	0	116958	
(ACRE)	8.94	5.21	1.04	0.00	2.68	
Drainage Area 1B PR						
CN Value	Total Area	Pavement Area	Roof Area	Gravel Area	Grass Area	
98	98	91	84			
Proposed (SQ FT)	123789	8381	0	2213	113195	
(ACRE)	2.84	0.19	0.00	0.05	2.60	
Drainage Area 2A PR						
CN Value	Total Area	Pavement Area	Roof Area	Gravel Area	Grass Area	
98	98	91	84			
Proposed (SQ FT)	65078	45588	2543	0	16947	
(ACRE)	1.49	1.05	0.06	0.00	0.39	
Drainage Area 2B PR						
CN Value	Total Area	Pavement Area	Roof Area	Gravel Area	Grass Area	
98	98	91	84			
Proposed (SQ FT)	36624	4554	2657	0	29413	
(ACRE)	0.84	0.10	0.06	0.00	0.68	
Drainage Area 2C PR						
CN Value	Total Area	Pavement Area	Roof Area	Gravel Area	Grass Area	
98	98	91	84			
Proposed (SQ FT)	227600	0	0	0	227600	
(ACRE)	5.22	0.00	0.00	0.00	5.22	



DATE: 05/03/2024
EXPIRES: 12/31/2025



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63136

PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: _____
CHECKED BY: _____
DESIGNED BY: _____

SHEET TITLE:
**Proposed Drainage
Conditions Map**

SHEET NUMBER:

C802



DATE: 05/03/2024
EXPIRES: 12/31/2025



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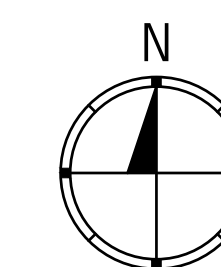
CAD DWG FILE: _____
DRAWN BY: _____
CHECKED BY: _____
DESIGNED BY: _____

SHEET TITLE:
BMP Drainage
Area (WQv) Map

SHEET NUMBER:

C803

67 OF 272 SHEETS
05/03/2024



1" = 60'

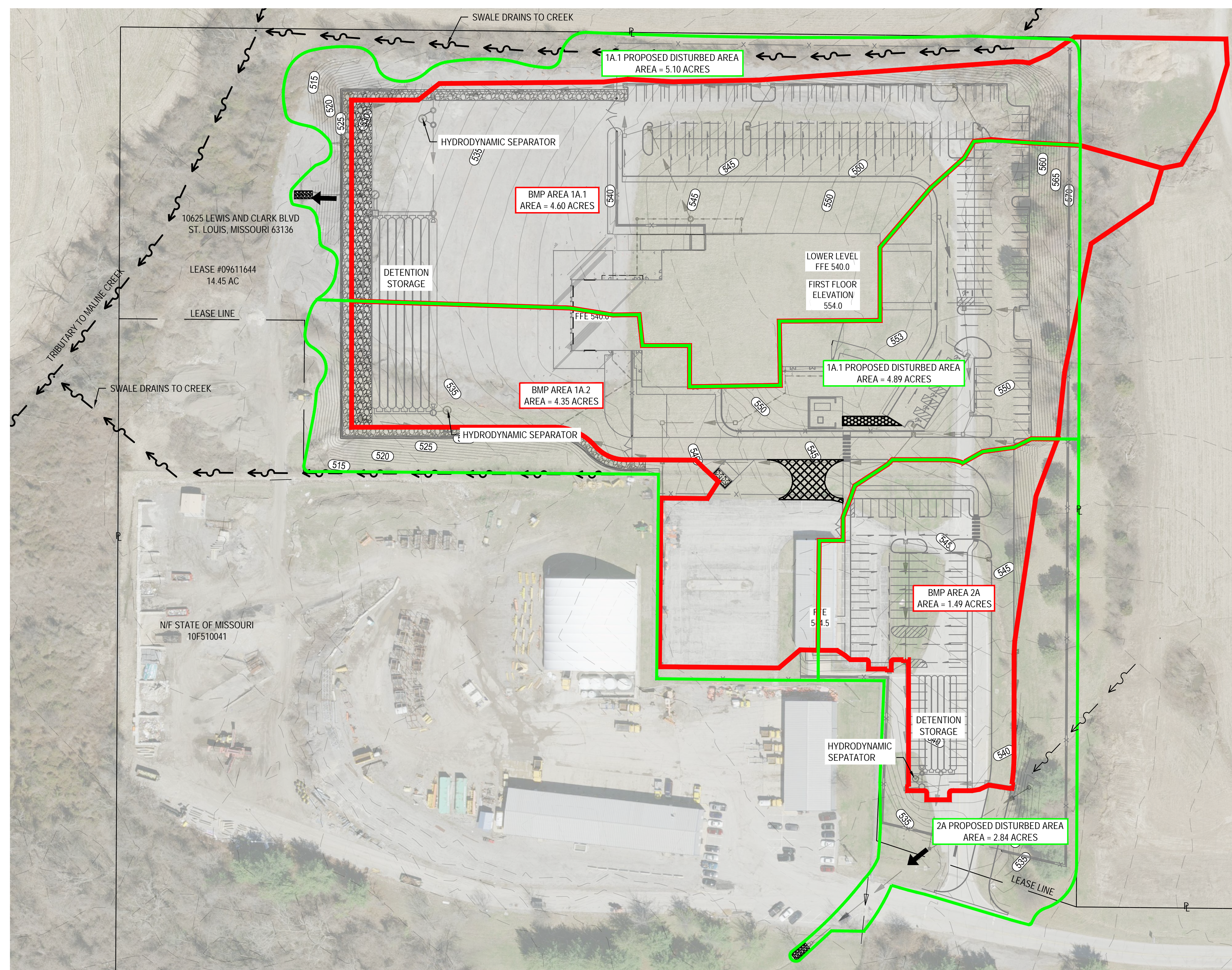
LEGEND

— OVERALL AREA FLOWING TO BMP

— OVERALL DISTURBED AREAS

← FLOW PATH DISCHARGE FROM SITE

▨ FUTURE PAVEMENT



NOTE: ANY FUTURE LAND DISTURBANCE, INCREASE IN IMPERVIOUS AREA, AND/OR CHANGE IN RUNOFF CONDITIONS ON THIS SITE MAY REQUIRE ADDITIONAL STORM WATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN).

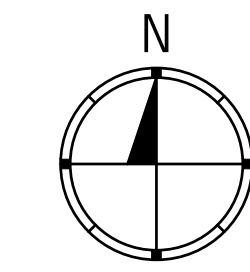
LAND DISTURBANCE AREA (THIS PROJECT) = 12.5 ACRES
LAND DISTURBANCE AREA (CUMULATIVE) = 12.5 ACRES

Area Name	Land Disturbance Area (AC)	By-Pass Area (AC)	Compensatory Area (AC)*	BMP Drainage Area (AC)*	Structural BMP	WQf Required (cfs)	WQf Provided (cfs)
1A.1	5.1	0.95	0.45	4.60	Hydrodynamic Separator	5.0	5.6
1A.2	4.89	0.54		4.35	Hydrodynamic Separator	4.7	5.0
2A	2.84	1.35		1.49	Hydrodynamic Separator	1.2	1.9

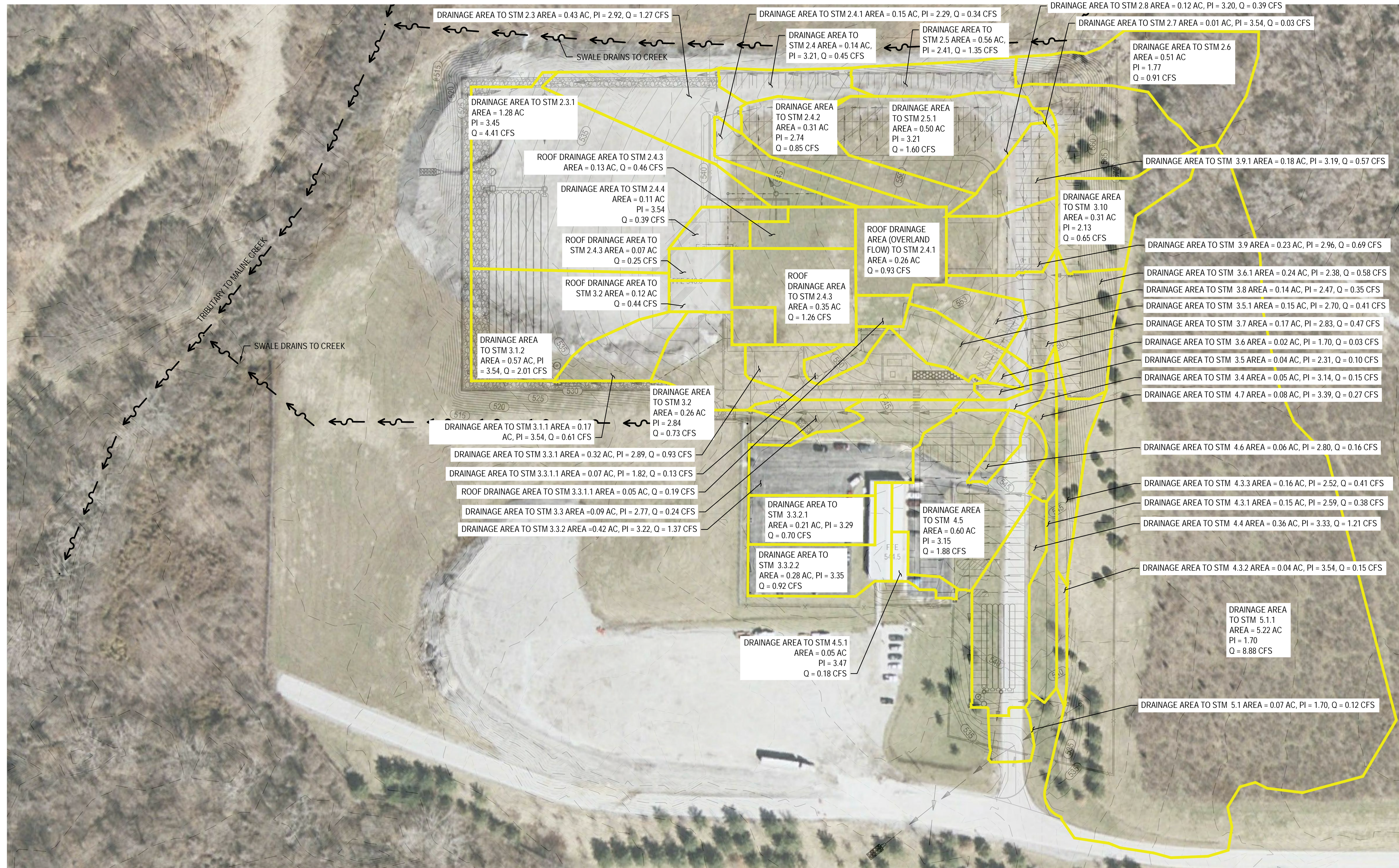
*Compensatory area is undisturbed area draining to BMP and is included in BMP Drainage Area shown on table.

LEGEND

— OVERALL PROPOSED DRAINAGE AREAS



1" = 60'



DATE: 05/03/2024
EXPIRES: 12/31/2025



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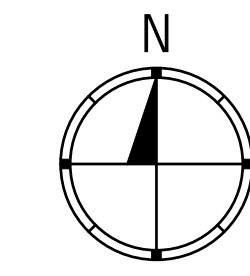
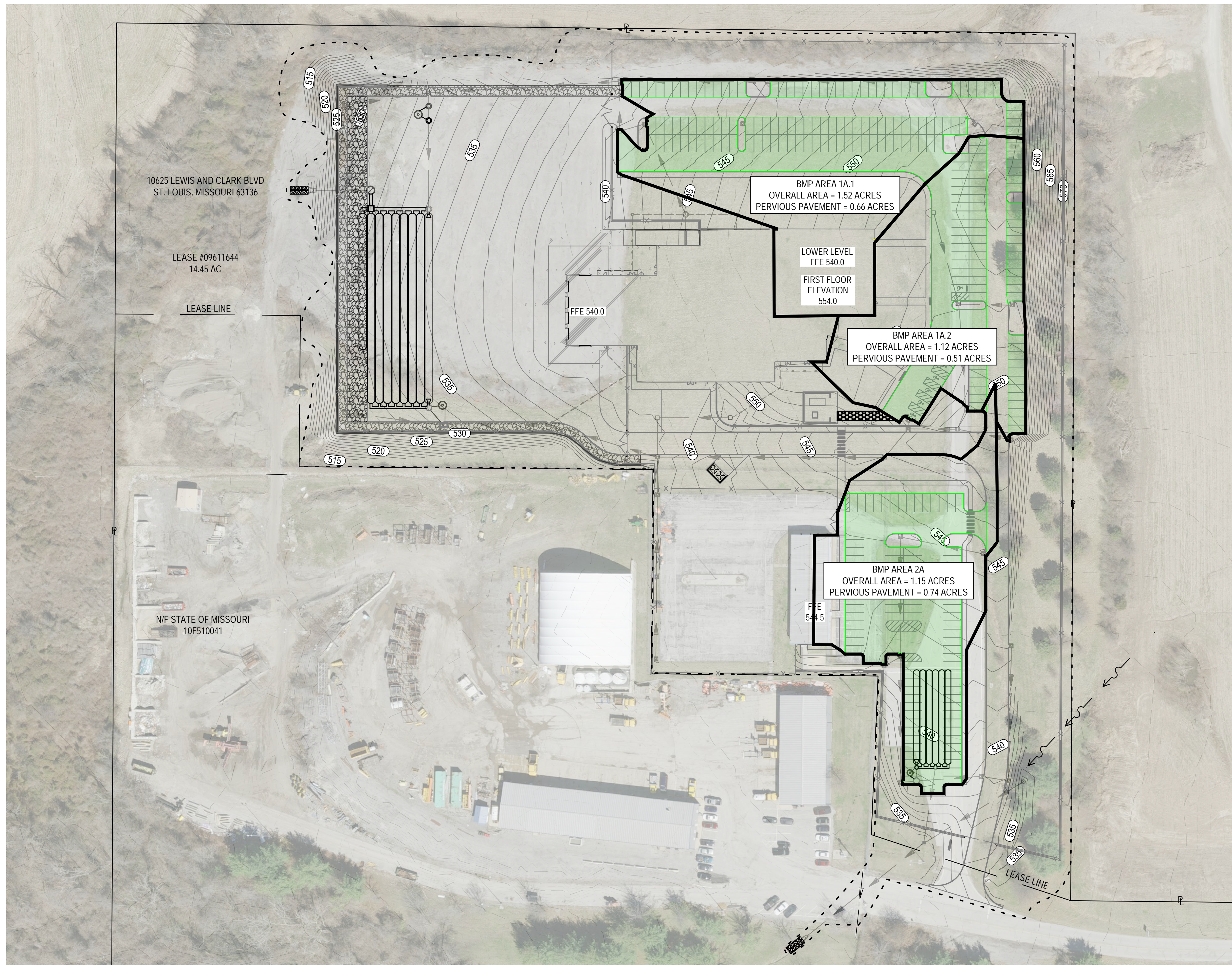
PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 05/03/2024
CAD DWG FILE: _____
DRAWN BY: _____
CHECKED BY: _____
DESIGNED BY: _____

SHEET TITLE:
**Proposed Inlet
Drainage Map**

SHEET NUMBER:
C804
68 OF 272 SHEETS
05/03/2024



1" = 60'

LEGEND

- OVERALL AREA FLOWING TO BMP
- PERVIOUS PAVEMENT

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



DATE: 05/03/2024
EXPIRES: 12/31/2025



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PROJECT # T2150-01
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: _____
CHECKED BY: _____
DESIGNED BY: _____

SHEET TITLE:
**Pervious Pavement
BMP Drainage
Area Map**

SHEET NUMBER:

C805

CODES AND SPECIFICATIONS

1. PROJECT IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:

INTERNATIONAL BUILDING CODE - 2018, INCLUDING ALL REFERENCED STANDARDS AS LISTED IN CHAPTER 35

UNIFIED FACILITIES CRITERIA 3-301-01, 1 OCTOBER 2019 "STRUCTURAL ENGINEERING"

UNIFIED FACILITIES CRITERIA 4-010-01 "MINIMUM ANTI-TERRORISM STANDARDS FOR BUILDINGS"

ARMY NATIONAL GUARD DG 415-1 READINESS CENTERS DESIGN GUIDE

- MINIMUM LOADING CONDITIONS ARE PER THE ASCE STANDARD, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-16"
- WHERE CONFLICT OCCURS BETWEEN REFERENCED CODES AND STANDARDS, SPECIFICATIONS, AND GENERAL NOTES, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.

DESIGN CRITERIA:

RISK CATEGORY IV

DEAD LOAD:

FLOOR:	
CEILING & LIGHTS	5 PSF
MEP	5 PSF
SLAB & DECK	52 PSF
DEFLECTION CONC.	5 PSF

ROOF:

CEILING & LIGHTS	5 PSF
MEP	3 PSF
MISCELLANEOUS	3 PSF
METAL DECK	2 PSF
INSULATION	1 PSF
ROOFING	1 PSF

LIVE LOAD:

FLOOR:	
LOBBY/CORRIDORS	100 PSF
OFFICE	60 PSF
STAIRS	100 PSF
PARTITIONS	15 PSF

ROOF:

MINIMUM LIVE LOAD	20 PSF
-------------------	--------

SNOW LOAD:

TERRAIN CATEGORY	C
IMPORTANCE FACTOR, I	1.20
THERMAL FACTOR, Ct	1.00
THERMAL FACTOR (UNHEATED STORAGE), Ct	1.20
EXPOSURE FACTOR, Ce	0.90
GROUND SNOW LOAD, Pg	20 PSF
FLAT ROOF SNOW LOAD, Pf	24 PSF

WIND DESIGN DATA:

BASIC WIND SPEED, V	118 MPH
IMPORTANCE FACTOR, I	1.0
EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT, GCPI	±0.18
COMPONENTS & CLADDING WIND FORCES SHALL BE DETERMINED BASED ON ASCE 7-16, CHAPTER 30	

SEISMIC DESIGN DATA:

IMPORTANCE FACTOR, I	1.5
MAPPED SPECTRAL RESPONSE ACCELERATIONS	
SHORT PERIOD PARAMETER, S _s	0.54
1 SECOND PARAMETER, S ₁	0.18
SOIL SITE CLASS	D
DESIGN SPECTRAL RESPONSE ACCELERATIONS	
SHORT PERIOD PARAMETER, S _{DS}	0.48
1 SECOND PARAMETER, S _{D1}	0.23
SEISMIC DESIGN CATEGORY	D

BASIC SEISMIC-FORCE-RESISTING SYSTEM

NORTH-SOUTH DIRECTION:	
SPECIAL REINFORCED MASONRY AND CONCRETE SHEAR WALLS	
RESPONSE MODIFICATIONS FACTOR, R	5
SEISMIC RESPONSE COEFFICIENT, C _s	0.144
EAST-WEST DIRECTION:	
SPECIAL REINFORCED MASONRY AND CONCRETE SHEAR WALLS	
RESPONSE MODIFICATION FACTOR, R	5
SEISMIC RESPONSE COEFFICIENT, C _s	0.144
ANALYSIS PROCEDURE	
EQUIVALENT LATERAL FORCE	

GEOTECHNICAL INFORMATION:
 GEOTECHNICAL RECOMMENDATIONS ARE FOUND IN THE "GEOTECHNICAL EXPLORATION ST. LOUIS READINESS CENTER MISSOURI ARMY NATIONAL GUARD" BY GEOTECHNOLOGY, INC. DATED NOVEMBER 7, 2018 AND GEOTECHNICAL REPORT SUPPLEMENT BY GEOTECHNOLOGY, INC. DATED FEBRUARY 14, 2022. THIS REPORT IS CONSIDERED PART OF THE PROJECT DOCUMENTS. REFER TO THIS REPORT FOR ADDITIONAL INFORMATION AND RECOMMENDATIONS FOR SITE PREPARATION, BEARING MATERIALS, ENGINEERED FILL, BACKFILL, ETC.

STRIP FOOTING ALLOW. NET BEARING PRESSURE:	2,500 PSF
COLUMN FOOTING ALLOW. NET BEARING PRESSURE:	2,500 PSF
FROST PROTECTION DEPTH	38 IN

DELEGATED DESIGN SUBMITTALS

- THE DESIGN RESPONSIBILITY FOR THE FOLLOWING SUBMITTALS IS TO BE PERFORMED BY A REGISTERED ENGINEER LICENSED IN THE STATE OF MISSOURI EMPLOYED BY THE CONTRACTOR.
 - STEEL CONNECTION DESIGN (STRUCTURAL & COLD-FORMED STEEL)
 - STEEL STAIRS, LANDINGS, LADDERS, AND CONNECTIONS TO STEEL AND CONCRETE.
 - STEEL OPEN WEB JOISTS AND GIRDERS (AS NOTED)
 - METAL ROOF AND FLOOR DECKS

FOUNDATION

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT. SEE DESIGN CRITERIA.
- FOUNDATIONS SHALL BEAR ON VIRGIN SOILS OR ENGINEERED FILL CAPABLE OF PROVIDING THE DESIGN ALLOWABLE BEARING PRESSURE.
- BEARING MATERIALS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIALS TO MEET THE SPECIFIED CAPACITY. ADJUST BOTTOM OF FOOTING ELEVATIONS AS REQUIRED.
- PROVIDE DEWATERING SYSTEMS AS REQUIRED TO KEEP EXCAVATIONS FREE OF WATER.
- DO NOT PLACE CONCRETE IN EXCAVATIONS WITH ICE OR FROZEN GROUND. PROTECT SUBGRADE AS NECESSARY.
- FOOTINGS PLACED BELOW GRADE MAY BE EARTH FORMED PROVIDED AN ADDITIONAL INCH OF CONCRETE COVER IS PROVIDED ALL AROUND.
- THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, CHECKED SHOP DRAWINGS FOR ALL REINFORCING MATERIALS.
- DO NOT BACKFILL BASEMENT WALLS UNTIL BRACING FLOORS ARE IN PLACE OR ADEQUATE TEMPORARY BRACING DESIGNED BY A REGISTERED ENGINEER IS INSTALLED.
- BACKFILL UNDER FOUNDATIONS WITH CONCRETE OR AS APPROVED BY THE GEOTECHNICAL ENGINEER.

CONCRETE NOTES

- CONCRETE MATERIALS AND CONSTRUCTION SHALL ADHERE TO THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY", ACI 318, YEAR ACCORDING TO PROJECT BUILDING CODE.
- GENERAL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301, YEAR ACCORDING TO PROJECT BUILDING CODE.
- CONCRETE 28-DAY COMPRESSIVE STRENGTH AND DENSITY SHALL BE AS FOLLOWS:

INTENDED USE	fc (PSI)	DENSITY (PCF)
FOUNDATIONS	4000	145
SLAB ON GRADE	4000	145
SLAB ON METAL DECK	4000	145
ALL OTHER CONCRETE	4000	145
- REINFORCING SHALL CONFORM TO:

a. DEFORMED BARS	ASTM A615 GRADE 60
b. DEFORMED BARS (WELDED)	ASTM A706
c. WELDED WIRE FABRIC	ASTM A1064
- ALL REINFORCING SHALL BE DETAILED, FABRICATED, SUPPORTED, AND PLACED IN ACCORDANCE WITH THE "ACI DETAILING MANUAL" AND CRSIS "MANUAL OF STANDARD PRACTICE", LATEST EDITIONS.
- REINFORCING SHALL BE PLACED WITH CONCRETE COVER AS SHOWN IN DETAILS. WHERE BAR PLACEMENT IS NOT SHOWN, PROVIDE CONCRETE COVER PER ACI 318, WITH THE FOLLOWING MINIMUM DIMENSIONS WHERE CONCRETE IS:

a. CAST AGAINST EARTH	3 IN
b. EXPOSED TO EARTH & WEATHER	2 IN
- SPLICE REINFORCING BARS WITH CLASS "B" SPLICES, UNO, PER THE REQUIREMENTS OF ACI 318. PROVIDE MINIMUM OF 6" LAP SPLICING FOR WWF IN SOG AND 12" FOR ELEVATED SLABS.
- CENTRAL LINE OF SPLICE OF WELDED WIRE FABRIC IN ELEVATED FLOOR SLABS SHALL BE LOCATED AT MIDSPAN OF FLOOR SLAB.
- SPLICES SHALL NOT BE LOCATED OVER FLOOR BEAMS.
- PROVIDE FOUNDATION DOWELS OF THE SAME SIZE AND LOCATION AS THAT REQUIRED IN COLUMN AND/OR WALL ABOVE. PROVIDE DEVELOPMENT AND SPLICES PER ACI 318.
- CONSTRUCTION JOINTS SHALL BE LOCATED ON THE SHOP DRAWINGS AND ARE SUBJECT TO APPROVAL OF THE ENGINEER. LOCATE AT POINTS OF MINIMUM SHEAR. REINFORCING SHALL BE CONTINUOUS THROUGH THE JOINT UNLESS IT ALSO FUNCTIONS AS A CONTROL JOINT (50% PASSES). SUBMIT DETAILS OF CONSTRUCTION JOINTS IN THE SHOP DRAWINGS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT ALLOWED IN WALLS OR SLABS.
- CONTROL JOINTS SHALL BE SPACED AT 15 FOOT MAXIMUM INTERVALS. LAYOUT SHALL CREATE NEARLY SQUARE OR RECTANGULAR (1.5:1 MAX) SECTIONS. SUBMIT CONTROL JOINT LAYOUT FOR APPROVAL.
- PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE UNLESS SHOWN OTHERWISE IN THE ARCHITECTURAL DRAWINGS.
- CONCRETE EXPOSED TO FREEZE THAW CYCLES SHALL HAVE 6% AIR ENTRAINMENT. DO NOT AIR ENTRAIN CONCRETE TO BE TROWEL FINISHED.
- CONCRETE FINISH SHALL CONFORM TO ACI 301 UNO ON ARCHITECTURAL DRAWINGS.

- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. FOR INFORMATION ON DOOR AND WINDOW LOCATIONS, LOUVER OPENINGS, SLEEVES, CONDUIT, DRAINS, MISCELLANEOUS EMBEDDED ITEMS, ETC. THAT ARE TO BE INCORPORATED IN THE WORK. THE VARIOUS TRADES ARE RESPONSIBLE FOR PROVIDING AND PLACING THEIR ITEMS. SEE MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR EQUIPMENT PADS AND FOUNDATION LOCATIONS. SEE TYPICAL DETAILS FOR CONSTRUCTION UNLESS SPECIFIC DETAILS ARE PROVIDED.
- SEE PLUMBING AND ARCHITECTURAL DRAWINGS FOR UNDERFLOOR AND PERIMETER FOUNDATION DRAINS.
- PROVIDE CONTINUOUS WATERSTOPS IN JOINTS OF PITS, RETAINING WALLS, AND OTHER SIMILAR CONSTRUCTIONS. WATERSTOP PRODUCTS SHALL BE APPROVED BY THE ENGINEER WHERE NOT SPECIFICALLY CALLED OUT ON DRAWINGS.
- ALL STEEL ELEMENTS LOCATED BELOW GRADE SHALL BE COATED WITH A MINIMUM OF 1/8" MASTIC AND COVERED WITH 3" MINIMUM CONCRETE FOR PROTECTION.
- EQUIPMENT PADS, TOPPING SLABS, FILL SLABS, ETC. SHALL BE REINFORCED WITH #4 AT 16" O.C. EACH WAY, UNO.
- CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND WITHIN THE LIMITATIONS OF ACI 318 SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE. ONLY WITH PRIOR WRITTEN APPROVAL OF THE ARCHITECT. THE CONTRACTOR SHALL SUBMIT DETAILED DIMENSIONED AND COORDINATED DRAWINGS OF PROPOSED EMBEDDED CONDUIT, PIPES, AND SLEEVES TO THE ARCHITECT PRIOR TO CONSTRUCTION.
- CONDUITS AND PIPES EMBEDDED WITHIN A SLAB, WALL, OR BEAM (OTHER THAN THOSE MERELY PASSING THROUGH) SHALL SATISFY THE FOLLOWING:
 - THEY SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, WALL, OR BEAM IN WHICH THEY ARE EMBEDDED.
 - THEY SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS
 - THEY SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE CONSTRUCTION.
- ALL ANCHOR BOLTS, INSERTS, SLEEVES AND OTHER EMBEDDED ITEMS SHALL BE SET BEFORE CONCRETE IS PLACED.
- THE CONTRACTOR SHALL MAKE ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT OF FORMS AND SHRINKAGE OF CONCRETE WHEN CONSTRUCTING FORMS AND FORM WORK.
- THE CONTRACTOR ALONE IS RESPONSIBLE FOR THE ADEQUACY OF ALL FORMS, SHORING, ETC., USED IN CONSTRUCTION OF CONCRETE WORK.
- ALL COLUMNS AND FOOTINGS ARE CENTERED ON COLUMN LINES EXCEPT WHERE OTHERWISE SHOWN ON THE PLANS.
- WALL CONSTRUCTION AND CONTROL JOINTS SHALL BE LOCATED ON SHOP DRAWINGS FOR APPROVAL AND SPACED NOT TO EXCEED THE FOLLOWING, WITHOUT WRITTEN APPROVAL BY STRUCTURAL ENGINEER OF RECORD:

a. CONSTRUCTION JOINTS	65 FEET
b. CONTROL JOINTS	25 FEET
- ALL ABUTTING CONCRETE MEMBERS SHALL BE DOWELED TOGETHER, UNLESS POURED MONOLITHICALLY. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ADJACENT MEMBER.

CONCRETE SLAB ON METAL DECK

- THE CONTRACTOR SHALL PLACE CONCRETE FOR SLABS SO THAT THE FINISH SURFACE IS SCREEDED LEVEL WITH AN ELEVATION WITHIN 1/4" OF THE TOP OF SLAB ELEVATION SHOWN ON THE PLANS.
- SLABS SHALL HAVE A TROWELED FINISH, UNLESS NOTES OTHERWISE ON THE ARCHITECTURAL DRAWINGS, AND AS A MINIMUM BE TRUE PLANES WITHIN 1/4" IN 10 FEET, AS DETERMINED BY A 10 FOOT, UNLESS NOTED OTHERWISE, STRAIGHT EDGE PLACED ANYWHERE ON THE SLAB IN ANY DIRECTION.
- CONSIDERATION SHALL BE GIVEN TO SEQUENCING OF CONCRETE PLACEMENT SO AS TO CONTROL FINISH ELEVATIONS WITHIN THE SPECIFIED LIMITS.
- CONTRACTOR SHALL FURNISH THE ADDITIONAL CONCRETE DUE TO WET CONCRETE DEFLECTION OF THE METAL DECK AND BEAMS. SEE DESIGN CRITERIA FOR ALLOWABLE ADDITIONAL THICKNESS.
- MECHANICAL, ELECTRICAL, AND PLUMBING CONDUIT, PIPING, AND OTHER ITEMS SHALL BE ROUTED BELOW METAL DECK. NO CONDUIT, PIPING, JUNCTION BOXES, OR OTHER ITEMS SHALL BE ALLOWED TO BE EMBEDDED IN CONCRETE SLAB WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
- WHERE STONE OR MANUFACTURED TILE THAT IS LARGER THAN 11"x11" IS TO BE INSTALLED, THE TILE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL LEVELING MATERIAL REQUIRED TO PROPERLY INSTALL FLAT AND LEVEL FLOORING. THE GENERAL CONTRACTOR SHALL NOTIFY THE TILE CONTRACTOR OF THIS REQUIREMENT.

REINFORCED MASONRY:

- MASONRY MATERIALS AND CONSTRUCTION SHALL ADHERE TO THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530 AND THE SPECIFICATION FOR MASONRY STRUCTURES, ACI 530.1, YEAR ACCORDING TO PROJECT BUILDING CODE.
- NOTES APPLY TO MASONRY SHOWN ON STRUCTURAL DRAWINGS AND SHALL BE THE MINIMUM REQUIREMENTS FOR MASONRY SHOWN ON THE ARCHITECTURAL DRAWINGS.
- THE MASONRY SYSTEM SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH, f_m, EQUAL TO 2000 PSI. GROUT SHALL COMPLY WITH ASTM C476. MORTAR SHALL COMPLY WITH ASTM C270 AND BE TYPE S ABOVE GRADE AND TYPE M BELOW GRADE, UNLESS NOTED OTHERWISE.
- MASONRY UNITS SHALL BE NORMAL WEIGHT CONCRETE, 135 PCF, PER ASTM C90.

- REINFORCED MASONRY SHALL HAVE SPECIAL INSPECTIONS PER THE DESIGN CODE REQUIREMENTS. SEE INSPECTION TABLES LOCATED WITHIN THE IBC OR ACI 530.1 AS REQUIRED BY THE PROJECT BUILDING CODE.
- REINFORCING SHALL COMPLY WITH ASTM A615, GRADE 60. JOINT REINFORCING SHALL COMPLY WITH ASTM A951.
- CONCRETE CONTRACTOR SHALL FURNISH DOWELS PROJECTING FROM CAST-IN-PLACE CONCRETE. MASONRY CONTRACTOR SHALL FURNISH ALL OTHER REINFORCING.
- DOWELS FROM CONCRETE AND/OR MASONRY SHALL ALIGN WITH THE VERTICAL AND/OR HORIZONTAL REINFORCING IN THE MASONRY. DOWELS SHALL MATCH THE VERTICAL WALL REINFORCING, UNLESS NOTED OTHERWISE.
- WHERE DOWELS DO NOT LINE UP WITHIN A BLOCK CELL, THEY MAY BE SLOPED NO MORE THAN ONE HORIZONTAL TO SIX VERTICAL (1H:6V). DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING.
- CONTROL JOINTS SHALL BE LOCATED PER ARCH DRAWINGS. IF CONTROL JOINTS ARE NOT LOCATED, SUBMIT A CONTROL JOINT PLAN FOR REVIEW.
- JOINT REINFORCING SHALL TERMINATE AT CONTROL JOINTS. HORIZONTAL REINFORCING BARS SHALL BE CONTINUOUS THROUGH CONTROL JOINTS AT ROOF LINES, FLOOR LINES, AND AS NOTED IN THE DRAWINGS.
- VERTICAL CELLS TO BE GROUTED SHALL BE CONSTRUCTED TO MAINTAIN A MINIMUM CLEAR GROUT SPACE AS SHOWN BELOW:

a. GROUT LIFT 5'-4" OR LESS:	2 1/2"x3"
b. GROUT LIFT 5'-4" TO 12'-8":	3"x3"
c. GROUT LIFT 12'-8" TO 24'-0":	3"x4"
- PROVIDE GROUT KEYS BETWEEN GROUT POURS. FORM GROUT KEY BY TERMINATING THE GROUT A MINIMUM OF 1" BELOW THE MORTAR JOINT.
- ALL ANCHOR BOLTS, HEADED STUDS, REINFORCING, POST-INSTALLED ANCHORS, ETC. SHALL BE PLACED IN SOLID GROUTED CELLS.
- ALL MASONRY BELOW GRADE SHALL BE GROUTED SOLID. CAVITIES OF MULTITWYTHE WALLS BELOW GRADE SHALL BE GROUTED SOLID.
- DO NOT EMBED ALUMINUM ITEMS IN MASONRY UNLESS EFFECTIVELY COATED TO RESIST THE REACTION DUE TO DISSIMILAR MATERIALS.
- JOINT REINFORCING SHALL BE 9 GAGE MINIMUM AND PLACED AT A MINIMUM OF 16" O.C. AND IN THE FIRST TWO BED JOINTS AT THE BASE OF THE WALL. PROVIDE AT 8" O.C. IN PARAPETS AND CANTILEVERED WALLS. JOINT REINFORCING SHALL BE SPLICED 6" MINIMUM.
- REFER TO DRAWINGS BY OTHER DISCIPLINES FOR DETAILS AND SPECIFIC DIMENSIONS OF WINDOWS, DOORS, LOUVERS, AND OTHER ITEMS WITHIN THE MASONRY. OPENINGS EQUAL TO OR SMALLER THAN 16"x16" ARE NOT TYPICALLY SHOWN ON STRUCTURAL DRAWINGS.
- OPENINGS SHALL BE CORED OR CUT WITH A MASONRY SAW LEAVING CLEAN EDGES AND NO OVERCUT CORNERS.
- TEMPORARY SHORING/BRACING OF WALLS IS BY CONTRACTOR. DO NOT REMOVE UNTIL THE STRUCTURE'S LATERAL LOAD RESISTING SYSTEM IS COMPLETE.
- SET POST-INSTALLED ANCHORS AND DOWELS WITH HILTI HIT HY-270 OR EQUAL. INSTALL PER THE STRICTEST RECOMMENDATION OF THE MANUFACTURER. SUBSTITUTION REQUESTS MUST BE PRE-APPROVED BY THE ENGINEER. ANCHORS SHALL BE 3/4" DIAMETER WITH 6" EMBEDMENT SPACED AT 16" O.C., UNLESS NOTED OTHERWISE.

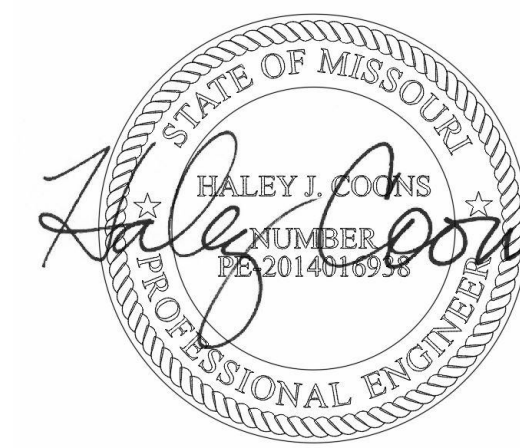
STRUCTURAL STEEL

- STEEL MATERIALS AND CONSTRUCTION SHALL ADHERE TO THE AISC STEEL CONSTRUCTION MANUAL, INCLUDING BUT NOT LIMITED TO, AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", EDITION AND YEAR SHALL BE ACCORDING TO PROJECT BUILDING CODE.
- IF REQUIRED, ALL STRUCTURAL STEEL SHALL BE FIREPROOFED WITH A U.L. APPROVED SPRAY-ON CEMENTITIOUS FIREPROOFING MATERIAL TO ATTAIN THE APPLICABLE FIRE RATING REQUIRED BY CODE. SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC FIREPROOFING REQUIREMENTS.
- PRIME PAINT STRUCTURAL STEEL AS NOTED BELOW:

a. PER ARCHITECTURAL DRAWINGS
b. INTERIOR STEEL PERMANENTLY EXPOSED TO VIEW
- GALVANIZE ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER.
- SEE SPECIFICATION SECTION 051200, "STRUCTURAL STEEL FRAMING", FOR ADDITIONAL REQUIREMENTS NOT NOTED HEREIN.
- THESE DRAWINGS SHALL NOT BE CONSIDERED "RELEASED FOR CONSTRUCTION" UNTIL SPECIFICALLY SO INDICATED IN THE DRAWING ISSUE BLOCK.
- STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS, UNO:

a. WIDE FLANGE SHAPES	A992
b. STEEL PIPE	A53, GR B
c. HOLLOW STRUCTURAL SECTIONS	A500, GR C
d. CHANNELS, ANGLES, PLATES	A36
e. BEARING PLATES	ASTM A992
- ASTM A325 OR ASTM A490 HIGH STRENGTH BOLTS SHALL BE USED FOR STEEL TO STEEL CONNECTIONS. UNO. ASTM A307 GRADE A STANDARD BOLTS SHALL BE USED FOR CONNECTIONS BETWEEN STEEL AND OTHER MATERIALS.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE" (AWS D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 4.4.1. OF AWS D1.1.

**STATE OF MISSOURI
 MICHAEL L. PARSON,
 GOVERNOR**



PROFESSIONAL SEAL



ONE SOUTH MEMORIAL DRIVE
 SUITE 1500 ST. LOUIS, MO 63102
 (314) 367-6100



6 SOUTH OLD ORCHARD AVE.
 ST. LOUIS, MO 63119
 T: 314.918.6383
 F: 314.918.1766
 www.rooster.com

**OFFICE OF
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 DIVISION OF FACILITIES
 MANAGEMENT,
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 SAFETY
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CONSTRUCT NEW
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10625 LEWIS & CLARK
 BLVD, ST. LOUIS, MO
 63136

PROJECT # T2150-01
 NGB # PN290179
 SITE # 6322
 FACILITY # 8136322001

REVISION:
 DATE: _____
 REVISION:
 DATE: _____
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 DATE: _____
 ISSUE DATE: 05/03/2024

CAD DWG FILE:
 DRAWN BY: JYI
 CHECKED BY: HJC
 DESIGNED BY: _____

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:

S001

70 OF 272 SHEETS
 05/03/2024



PROFESSIONAL SEAL



ONE SOUTH MEMORIAL DRIVE
SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
www.oatesassociates.com

Collinsville St. Louis Belleville St. Charles
18000 RICHMOND HIGHWAY, SUITE 100, BELLVILLE, MO 63122



6 SOUTH OLD ORCHARD AVE.
ST. LOUIS, MO 63119
T: 314.918.5383
F: 314.918.1766
www.introba.com

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CAD DWG FILE: _____
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
STATEMENT OF
SPECIAL
INSPECTIONS

SHEET NUMBER:

S004

SCHEDULE OF SPECIAL INSPECTIONS			
ITEM #	TASK	INSPECTION TYPE*	DESCRIPTION
STRUCTURAL STEEL - PRIOR TO WELDING (2018 IBC 1705.2.1, AISC 360-16)			
1	VERIFY THAT THE WELDING PROCEDURES SPECIFICATION (WPS) IS AVAILABLE	PERFORM	
2	VERIFY MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES ARE AVAILABLE	PERFORM	
3	VERIFY MATERIAL IDENTIFICATION	PERFORM	TYPE AND GRADE
4	WELDER IDENTIFICATION SYSTEM	PERFORM	THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE
5	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	OBSERVE	JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)
6	CONFIGURATION AND FINISH OF ACCESS HOLES	OBSERVE	
7	FIT-UP OF FILLET WELDS	OBSERVE	DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION)
STRUCTURAL STEEL - DURING WELDING (2018 IBC 1705.2.1, AISC 360-16; TABLE C-N5.4-2)			
8	USE OF QUALIFIED WELDERS	PERFORM	WELDING BY WELDERS, WELDING OPERATORS, AND TACK WELDERS WHO ARE QUALIFIED IN CONFORMANCE WITH REQUIREMENTS
9	CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	PACKAGING, ELECTRODE ATMOSPHERE EXPOSURE CONTROL
10	NO WELDING OVER CRACKED TACK WELDS	OBSERVE	
11	ENVIRONMENTAL CONDITIONS	OBSERVE	WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE
12	WELDING PROCEDURES SPECIFICATION FOLLOWED	OBSERVE	SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.), PROPER POSITION (F, V, H, OH), INTERMIX OF FILLER MATERIALS AVOIDED
13	WELDING TECHNIQUES	OBSERVE	INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS
STRUCTURAL STEEL - AFTER WELDING (2018 IBC 1705.2.1, AISC 360-16; TABLE C-N5.4-3)			
14	WELDS CLEANED	OBSERVED	
15	SIZE, LENGTH, AND LOCATION OF ALL WELDS	PERFORM	SIZE, LENGTH, AND LOCATION OF ALL WELDS CONFORM TO THE REQUIREMENTS OF THE DETAIL DRAWINGS
16	WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM AND DOCUMENT	CRACK PROHIBITION, WELD-BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY
17	ARC STRIKES	PERFORM	
18	K-AREA	PERFORM	WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS.
19	BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED WHERE REQUIRED	PERFORM	
20	REPAIR ACTIVITIES	PERFORM AND DOCUMENT	
21	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERFORM	
STRUCTURAL STEEL - PRIOR TO BOLTING (2018 IBC 1705.2.1, AISC 360-16; TABLE C-N5.6-1)			
1	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	PERFORM	
2	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE	
3	PROPER FASTENERS SELECTED FOR JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	OBSERVE	
4	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	OBSERVE	
5	CONNECTING ELEMENTS, INCLUDING APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	OBSERVE	

6	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	OBSERVE	
STRUCTURAL STEEL - DURING BOLTING (2018 IBC 1705.2.1, AISC 360-16; TABLE C-N5.6-2)			
7	FASTENER ASSEMBLIES OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	OBSERVE	
8	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION	OBSERVE	
9	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	OBSERVE	
10	BOLTS ARE PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	OBSERVE	
STRUCTURAL STEEL - AFTER BOLTING (2018 IBC, AISC 360-16; TABLE C-N5.6-3)			
11	DOCUMENT ACCEPTANCE OR REJECTION OF ALL BOLTED CONNECTIONS	DOCUMENT	
STRUCTURAL STEEL - NONDESTRUCTIVE TESTING OF WELDED JOINTS (2018 IBC 1705.2.1, AISC 360-16; SECTION N5.5)			
1	USE OF QUALIFIED NONDESTRUCTIVE TESTING PERSONNEL	PERFORM	VISUAL WELD INSPECTION AND NONDESTRUCTIVE TESTING (NDT) SHALL BE CONDUCTED BY PERSONNEL QUALIFIED IN ACCORDANCE WITH AWS D1.8 CLAUSE 7.2.
	CJP GROOVE WELDS		DYE PENETRANT TESTING (DT) AND ULTRASONIC TESTING (UT) SHALL BE PERFORMED ON 20% OF CJP GROOVE WELDS FOR MATERIALS GREATER THAN 1/2" THICK. TESTING RATE MUST BE INCREASED TO 100% IF GREATER THAN 5% OF WELDS TESTED HAVE UNACCEPTABLE DEFECTS.
2	WELDED JOINTS SUBJECT TO FATIGUE	OBSERVE	DYE PENETRANT TESTING (DT) AND ULTRASONIC TESTING (UT) SHALL BE PERFORMED ON 100% OF WELDED JOINTS IDENTIFIED ON CONTRACT DOCUMENTS AS BEING SUBJECT TO FATIGUE.
3	WELD TAB REMOVAL SITES	OBSERVE	AT THE END OF WELDS WHERE WELD TABS HAVE BEEN REMOVED, MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON THE SAME BEAM-TO-COLUMN JOINTS RECEIVING UT.
STRUCTURAL STEEL - COMPOSITE CONSTRUCTION PRIOR TO PLACING CONCRETE (2018 IBC 1705.2.1, AISC 360-16; TABLE N6.1)			
1	PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	PERFORM	
2	MATERIAL IDENTIFICATION OF REINFORCING STEEL (TYPE/GRADE)	OBSERVE	
3	DETERMINATION OF CARBON EQUIVALENT FOR REINFORCING STEEL OTHER THAN ASTM A706	OBSERVE	
4	PROPER REINFORCING STEEL SIZE, SPACING, CLEARANCES, SUPPORT, AND ORIENTATION	OBSERVE	
5	REINFORCING STEEL HAS NOT BEEN RE-BENT IN THE FIELD	OBSERVE	
6	REINFORCING CLEARANCES HAVE BEEN PROVIDED	OBSERVE	
7	REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED	OBSERVE	
8	COMPOSITE MEMBER HAS REQUIRED SIZE	OBSERVE	
STRUCTURAL STEEL - OTHER INSPECTIONS (2018 IBC 1705.2.1, AISC 341-16; TABLES J8.1 & J10.1)			
1	ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL	PERFORM	VERIFY THE DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE.
2	FABRICATED STEEL OR ERECTED STEEL FRAME	OBSERVE	VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
COLD-FORMED METAL DECK - PRIOR TO DECK PLACEMENT (SDI QA/QC-2011, APPENDIX 1, TABLE 1.1)			
1	VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	PERFORM	
2	DOCUMENT ACCEPTANCE OR REJECT OF DECK AND DECK ACCESSORIES	DOCUMENT	
COLD-FORMED METAL DECK - DURING DECK PLACEMENT (SDI QA/QC-2011, APPENDIX 1, TABLE 1.2)			
3	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	PERFORM	

4	VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	PERFORM	
5	DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	DOCUMENT	
COLD-FORMED METAL DECK - AFTER DECK PLACEMENT (SDI QA/QC-2011, APPENDIX 1, TABLE 1.3)			
6	WELDING PROCEDURE SPECIFICATION (WPS) AVAILABLE	PERFORM	
7	MANUFACTURER'S CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	OBSERVE	
8	MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE	
9	CHECK WELDING EQUIPMENT	OBSERVE	
COLD-FORMED METAL DECK - DURING WELDING (SDI QA/QC-2011, APPENDIX 1, TABLE 1.4)			
1	USE OF QUALIFIED WELDERS	OBSERVE	
2	CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	
3	ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	OBSERVE	
4	WPS FOLLOWED	OBSERVE	
COLD-FORMED METAL DECK - AFTER WELDING (SDI QA/QC-2011, APPENDIX 1, TABLE 1.5)			
5	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP AND PERIMETER WELDS	PERFORM	
6	WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	
7	VERIFY REPAIR ACTIVITIES	PERFORM	
8	DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	DOCUMENT	
COLD-FORMED METAL DECK - BEFORE MECHANICAL FASTENING (SDI QA/QC-2011, APPENDIX 1, TABLE 1.6)			
1	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	OBSERVE	
2	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	OBSERVE	
COLD-FORMED METAL DECK - DURING MECHANICAL FASTENING (SDI QA/QC-2011, APPENDIX 1, TABLE 1.7)			
3	FASTENERS ARE POSITIONED AS REQUIRED	OBSERVE	
4	FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	OBSERVE	
COLD-FORMED METAL DECK - AFTER MECHANICAL FASTENING (SDI QA/QC-2011, APPENDIX 1, TABLE 1.8)			
5	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	PERFORM	
6	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	PERFORM	
7	CHECK SPACING TYPE, AND INSTALLATION OF PERIMETER FASTENERS	PERFORM	
8	VERIFY REPAIR ACTIVITIES	PERFORM	
9	DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	DOCUMENT	
OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (2018 IBC TABLE 1705.2.3)			
1	INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	OBSERVE	END CONNECTIONS - WELDED OR BOLTED, BRIDGING - HORIZONTAL AND DIAGONAL
CONCRETE CONSTRUCTION, INCLUDING COMPOSITE DECK (2018 IBC TABLE 1705.3)			
1	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	OBSERVE	VERIFY PRIOR TO PLACING CONCRETE THAT REINFORCING IS OF SPECIFIED TYPE, GRADE AND SIZE; THAT IT IS FREE OF OIL, DIRT AND UNACCEPTABLE RUST; THAT IT IS LOCATED AND SPACED PROPERLY; THAT HOOKS, BENDS, TIES, STIRRUPS AND SUPPLEMENTAL REINFORCEMENT ARE PLACED CORRECTLY; THAT LAP LENGTHS, STAGGER AND OFFSETS ARE PROVIDED, AND THAT ALL MECHANICAL CONNECTIONS ARE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND/OR EVALUATION REPORT.
2	REINFORCING BAR WELDING	OBSERVE	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/8" IN ACCORDANCE WITH AWS D1.4.
3	ALL OTHER WELDING	CONTINUOUS	VISUALLY INSPECT ALL WELDS IN ACCORDANCE WITH AWS D1.4.
4	CAST IN PLACE ANCHORS AND POST INSTALLED DRILLED ANCHORS (DOWNWARD INCLINED)	OBSERVE	VERIFY PRIOR TO PLACING CONCRETE THAT CAST IN PLACE ANCHORS AND POST INSTALLED DRILLED ANCHORS HAVE PROPER EMBEDMENT, SPACING AND EDGE DISTANCE.
5	POST-INSTALLED ADHESIVE ANCHORS IN HORIZONTAL OR UPWARD INCLINED ORIENTATIONS	CONTINUOUS AND DOCUMENT	INSPECT AS REQUIRED PER APPROVED ICC-ES REPORT, VERIFY THAT INSTALLER IS CERTIFIED FOR INSTALLATION OF HORIZONTAL AND OVERHEAD INSTALLATION APPLICATIONS. INSPECT PROOF LOADING AS REQUIRED BY THE CONTRACT DOCUMENTS.

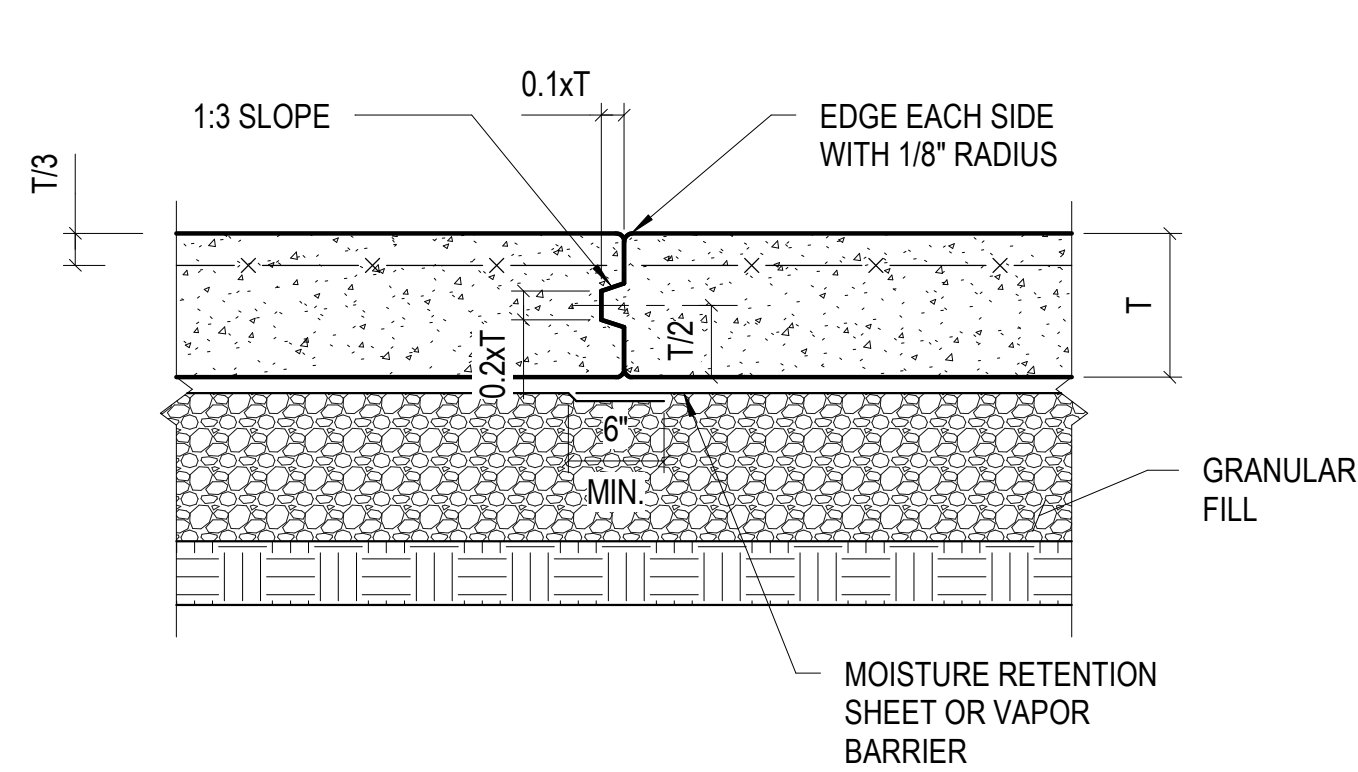
6	VERIFY USE OF REQUIRED MIX DESIGN	OBSERVE	VERIFY THAT ALL MIXES USED COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS.
7	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	CONTINUOUS	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TEST VERIFY THESE TEST ARE PERFORMED BY QUALIFIED TECHNICIANS.
8	INSPECT CONCRETE AND/OR SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	CONTINUOUS	VERIFY PROPER APPLICATION TECHNIQUES ARE USED DURING CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.
9	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUE	OBSERVE	INSPECT CURING, COLD WEATHER PROTECTION, AND HOT WEATHER PROTECTION PROCEDURES.
10	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	OBSERVE	
MASONRY - AT START OF CONSTRUCTION (2018 IBC 1705.4, ACI 530-13 TABLE 3.1.2 & 3.1.3)			
1	COMPLIANCE WITH APPROVED SUBMITTALS PRIOR TO START	OBSERVE	
2	PROPORTIONS OF SITE-MIXED MORTAR	OBSERVE	
3	GRADE AND TYPE OF REINFORCEMENT, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	OBSERVE	
MASONRY - PRIOR TO GROUTING (2018 IBC 1705.4, ACI 530-13 TABLE 3.1.2 & 3.1.3)			
4	GROUT SPACE	CONTINUOUS	
5	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	OBSERVE	
6	PLACEMENT OF MASONRY UNITS AND MORTAR JOINTS	OBSERVE	
7	WELDING OF REINFORCEMENT	CONTINUOUS	
MASONRY - DURING CONSTRUCTION (2018 IBC 1705.4, ACI 530-13 TABLE 3.1.2 & 3.1.3)			
8	SIZE AND LOCATION OF STRUCTURAL ELEMENTS IS IN COMPLIANCE	OBSERVE	
9	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER OR HOT WEATHER	OBSERVE	
10	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	CONTINUOUS	
11	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	OBSERVE	
12	TYPE, SIZE, AND PLACEMENT OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	CONTINUOUS	
SOILS (2018 IBC TABLE 1705.6)			
1	MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
2	EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
3	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X
4	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	
5	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		DURING FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL VERIFY THE PROPER MATERIALS AND PROCEDURES ARE USED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT

PERFORM: PERFORM THESE TASKS FOR EACH WELD, FASTENER OR BOLTED CONNECTION, AND REQUIRED VERIFICATION.

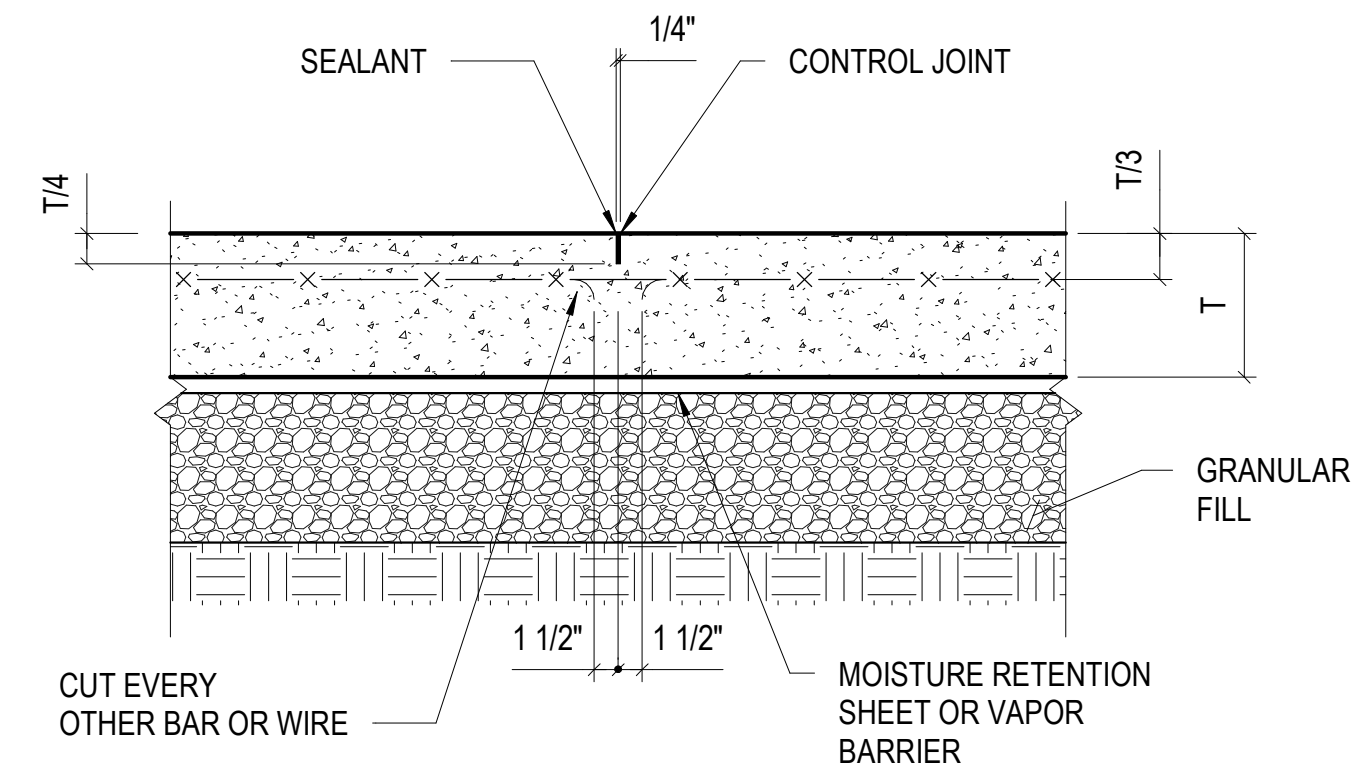
OBSERVE: OBSERVE THESE ITEMS ON A RANDOM SAMPLING BASIS DAILY TO INSURE THAT APPLICABLE REQUIREMENTS ARE MET. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS AT CONTRACTOR'S RISK.

DOCUMENT: DOCUMENT IN A REPORT THAT THE WORK HAS BEEN PERFORMED AS REQUIRED. THIS IS IN ADDITION TO ALL OTHER REQUIRED REPORTS.

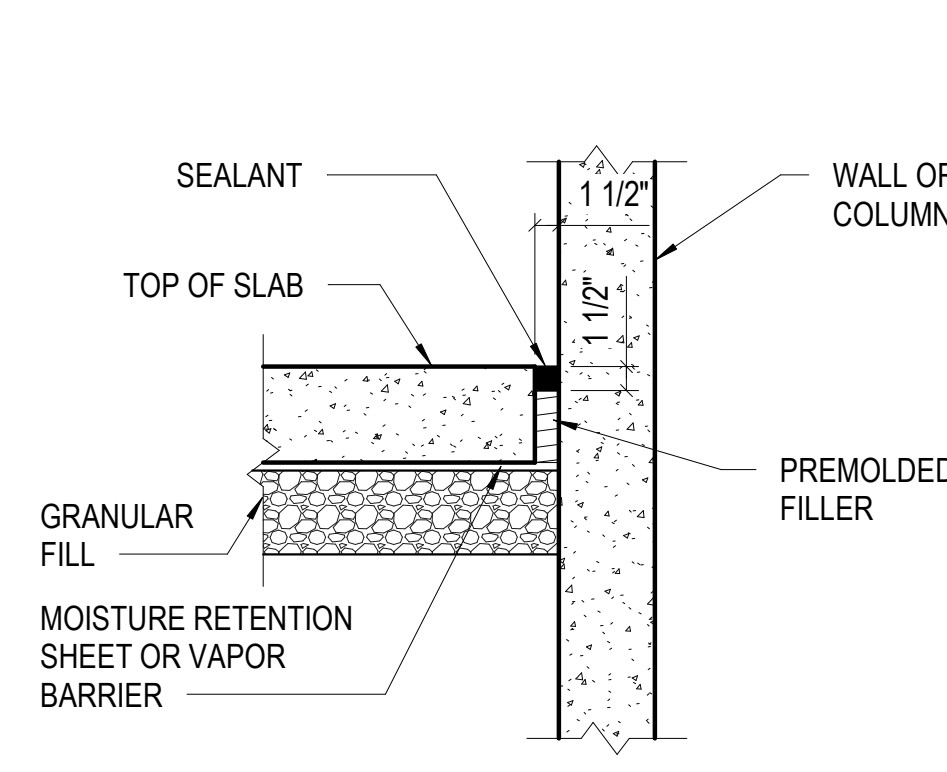
CONTINUOUS: CONSTANT MONITORING OF IDENTIFIED TASKS BY A SPECIAL INSPECTOR OVER THE DURATION OF PERFORMANCE OF SAID TASKS.



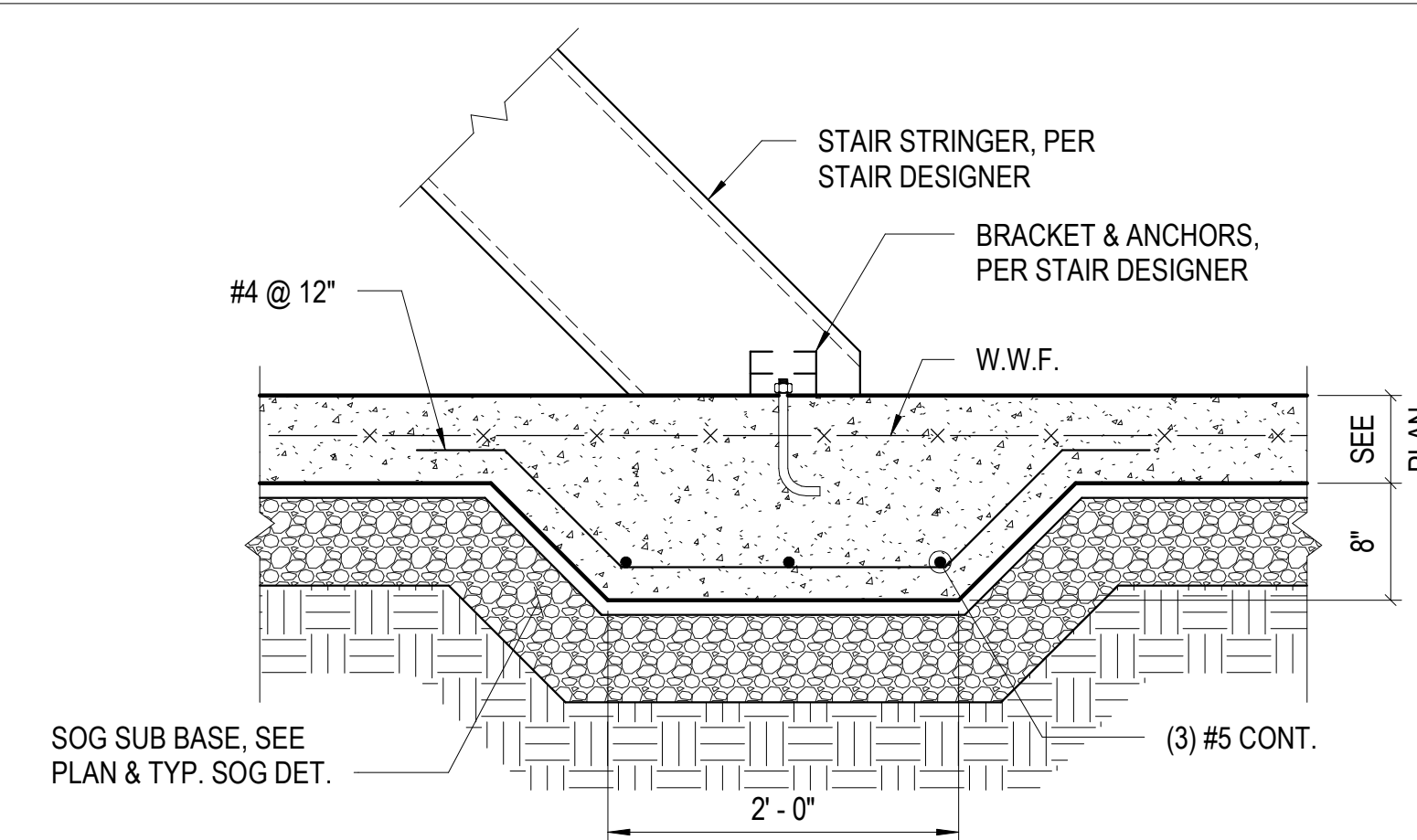
TYPICAL CONSTRUCTION JOINT DETAIL



TYPICAL CONTROL JOINT DETAIL

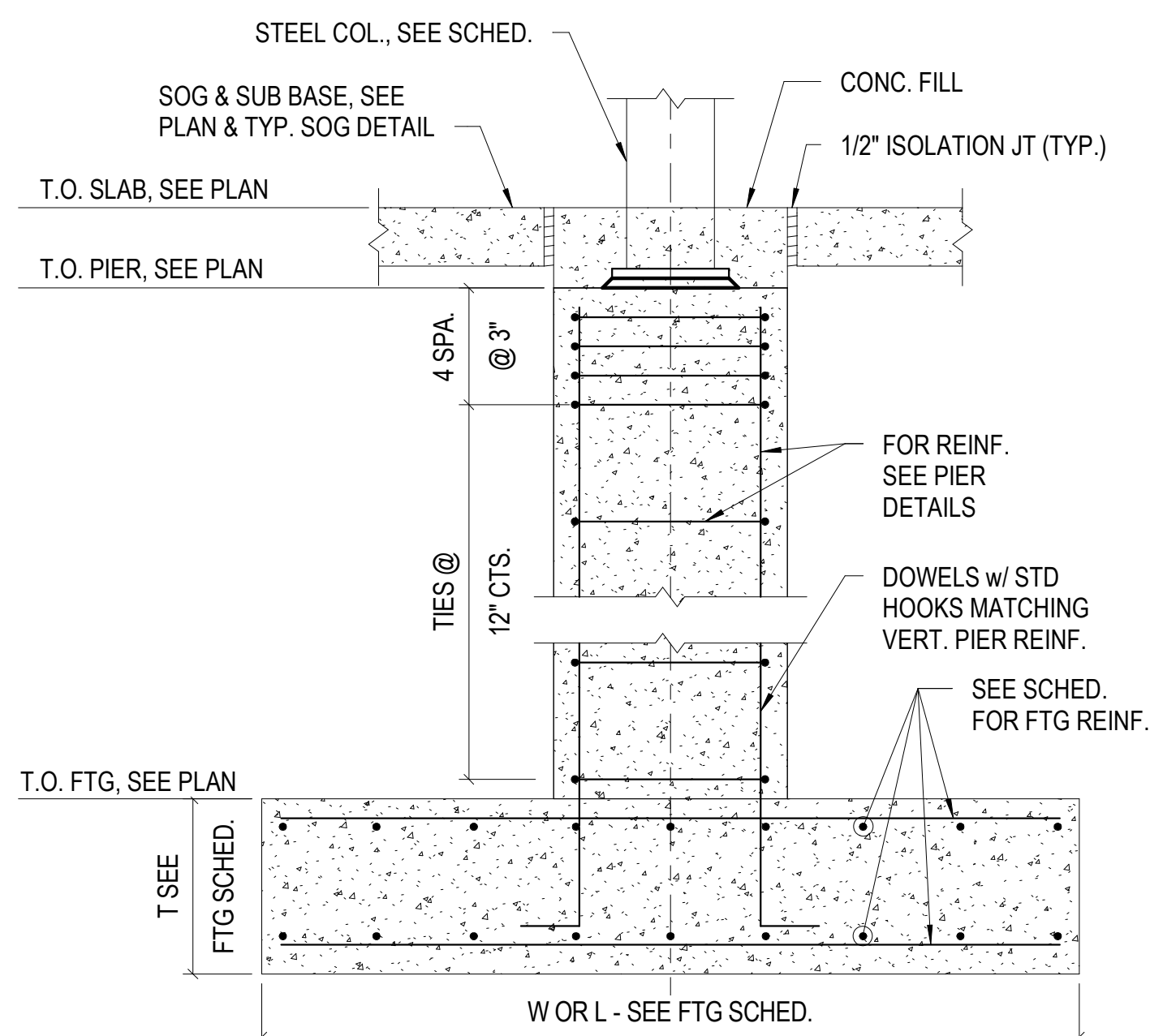


TYPICAL SEALED EDGE JOINT

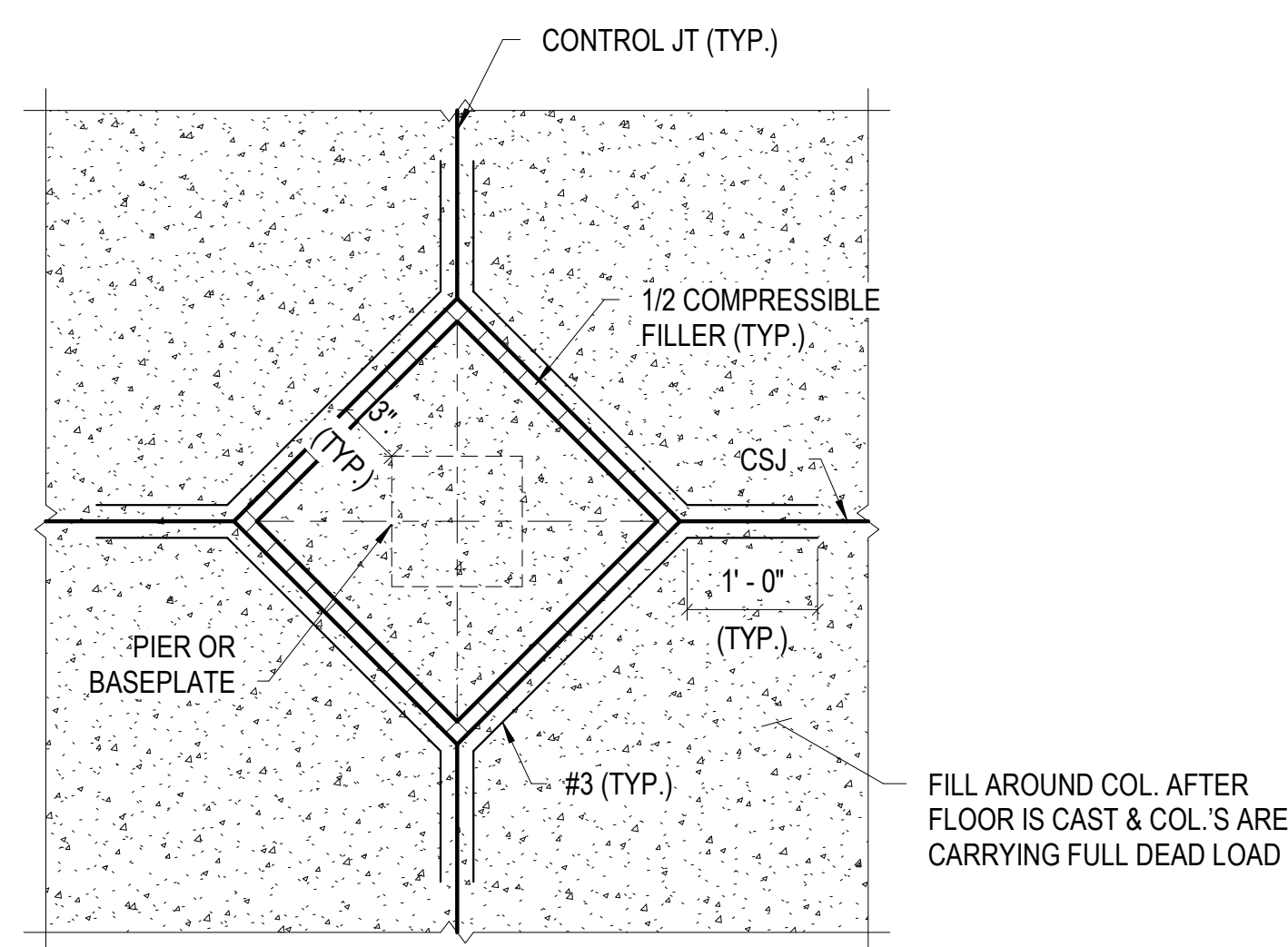


TYPICAL STAIR CONNECTION TO SLAB ON GRADE

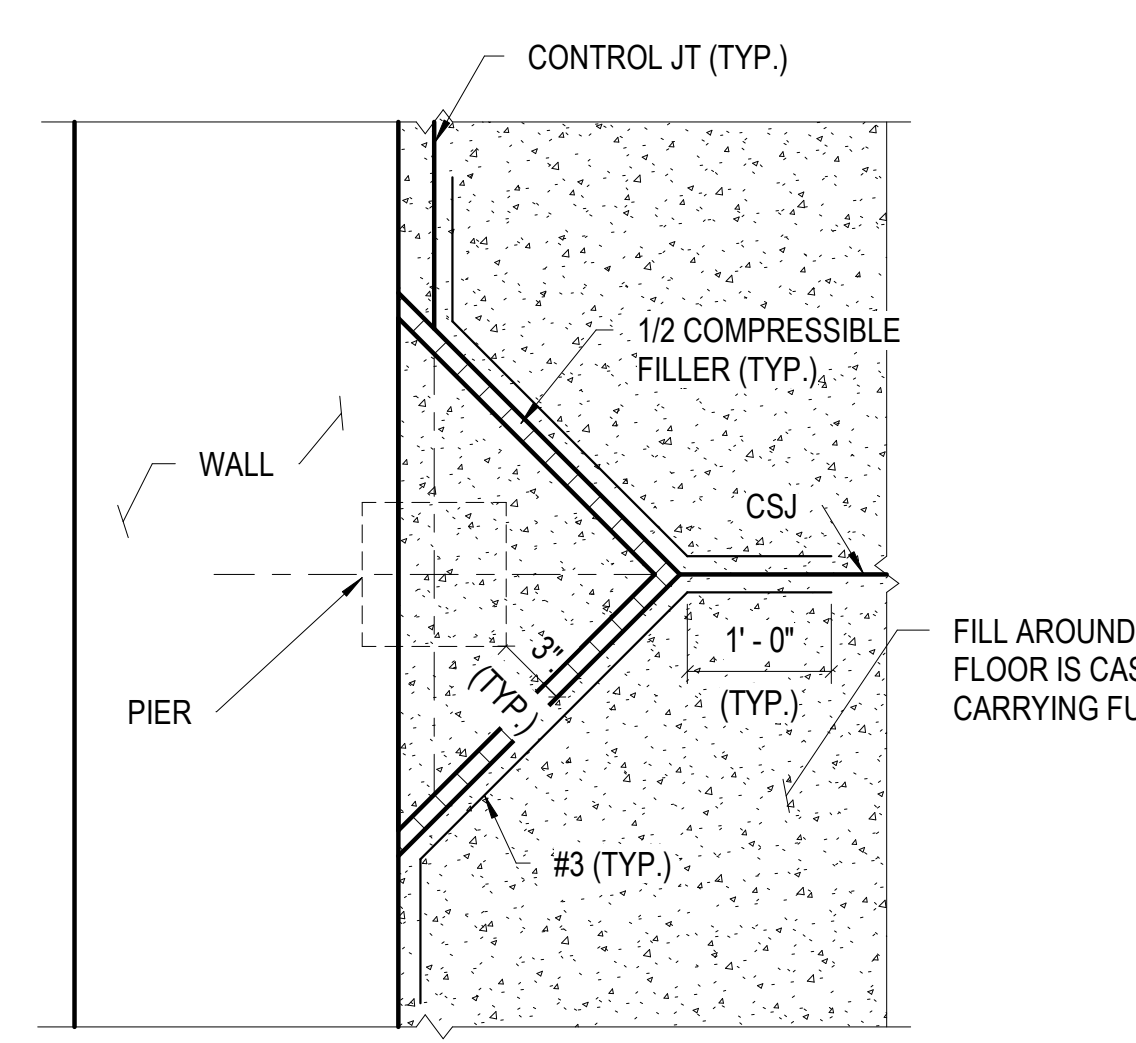
- NOTES:
- SEE ARCH. DWGS FOR STAIR LOCATION & RISER/TREAD CONFIGURATION.
 - THICKENED SLAB LENGTH = STAIR WIDTH + 12".



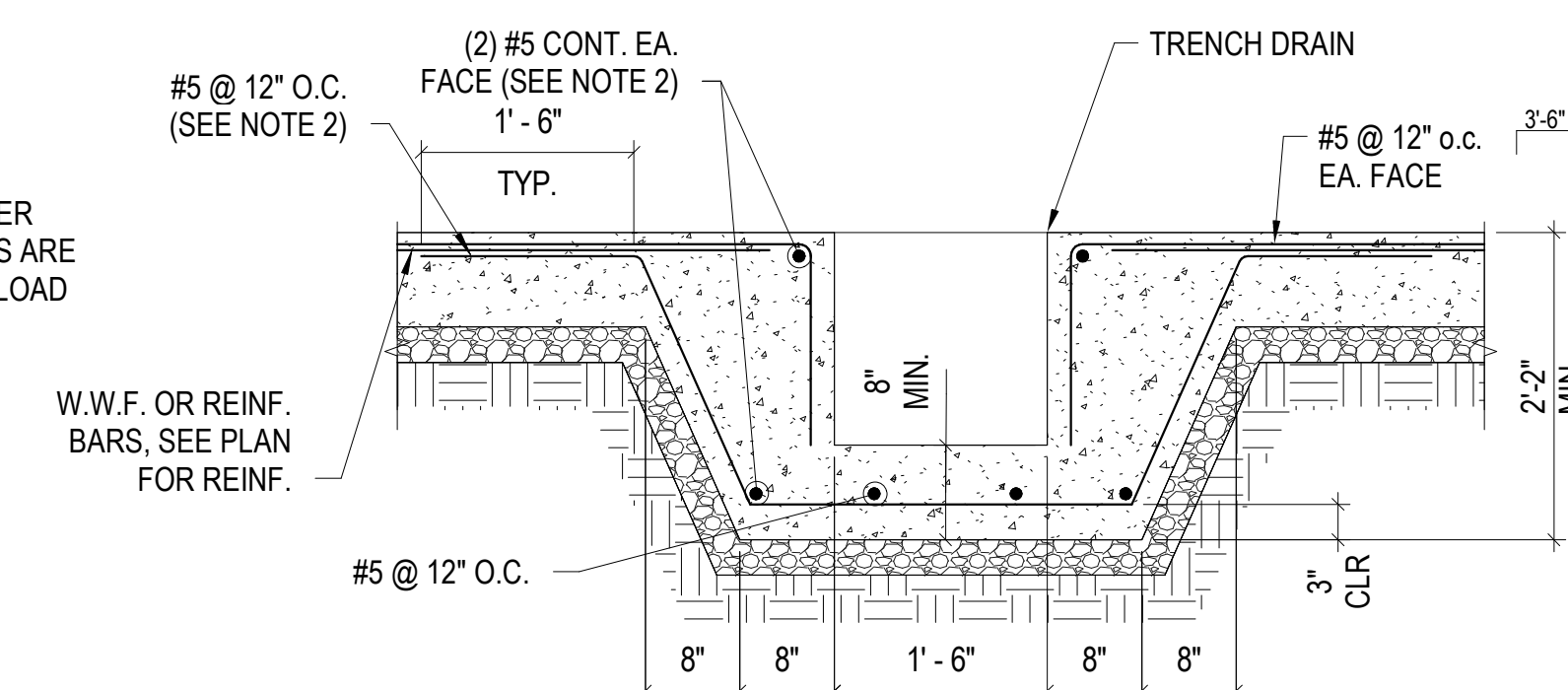
TYPICAL COLUMN FOOTING WITH PIER



TYPICAL ISOLATION JOINT AT INT. COLUMN

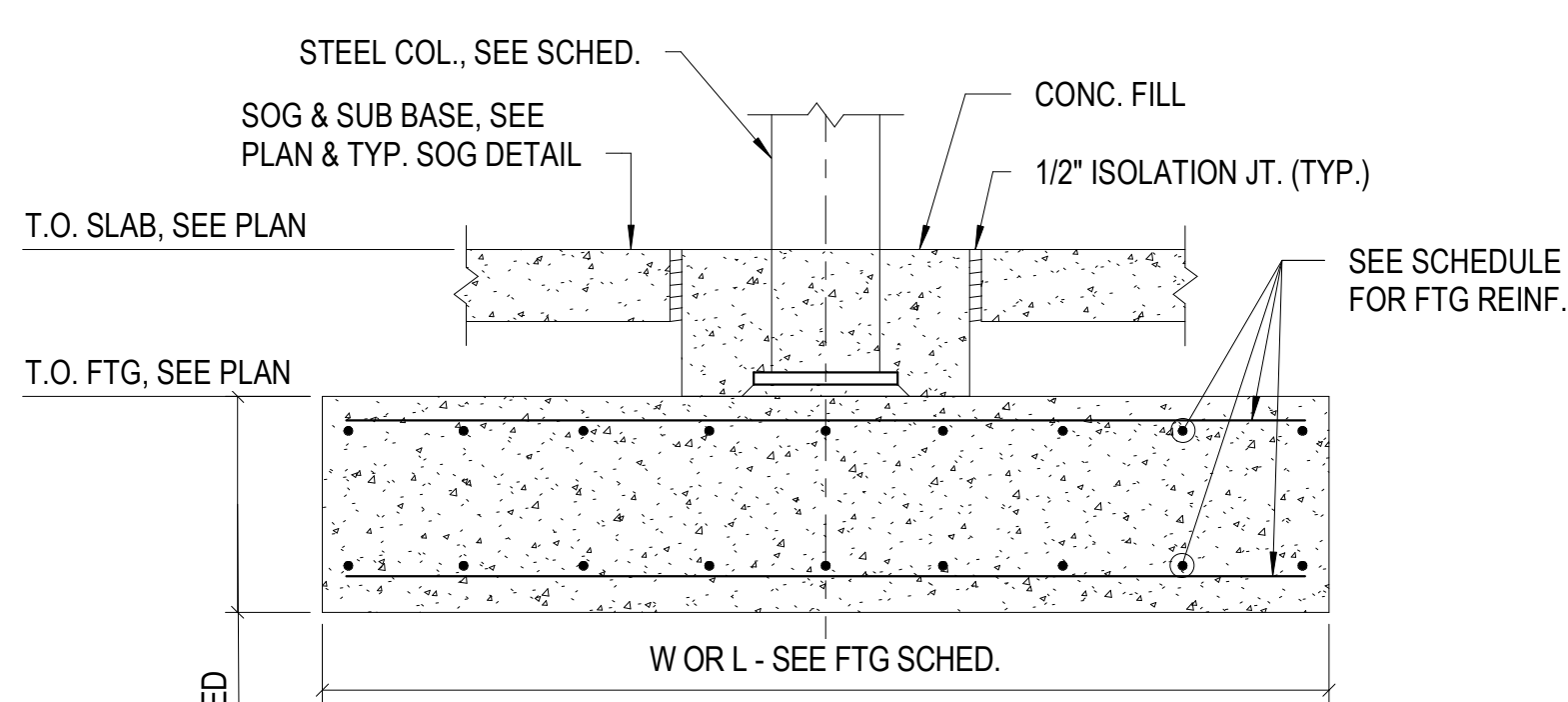


TYPICAL ISOLATION JOINT AT EXT. COLUMN

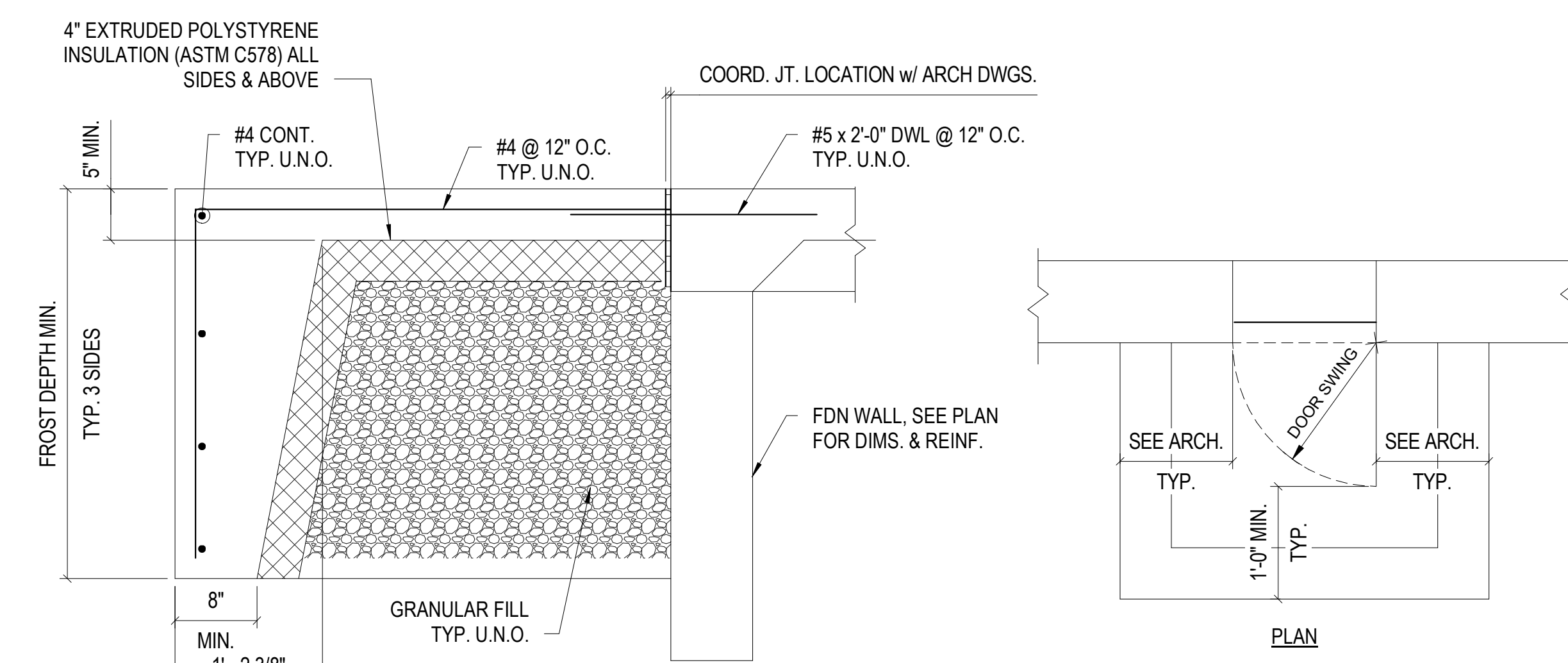


- NOTES:
- SEE TYP. SOG DETAIL FOR SUB BASE MATERIAL.
 - CONTINUE REINFORCEMENT 3'-0" BEYOND TRENCH DRAIN, EACH END.

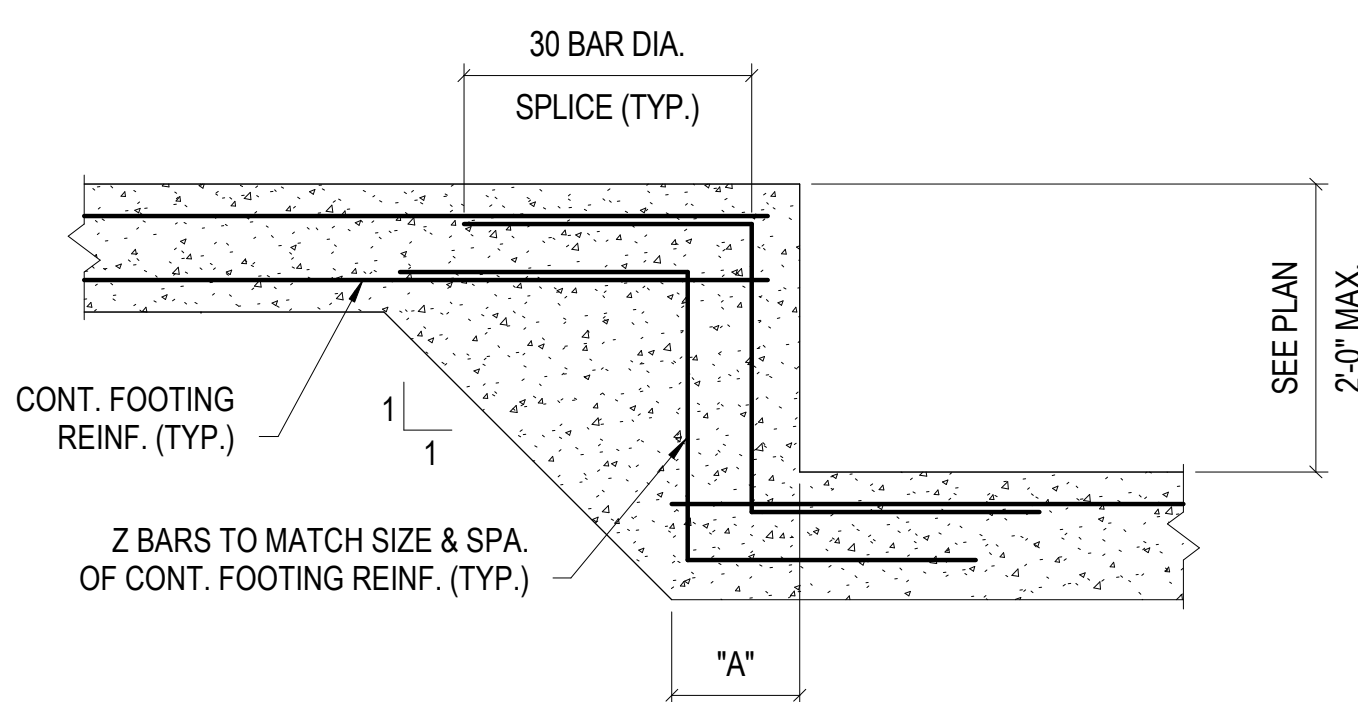
TYPICAL TRENCH DRAIN DETAIL



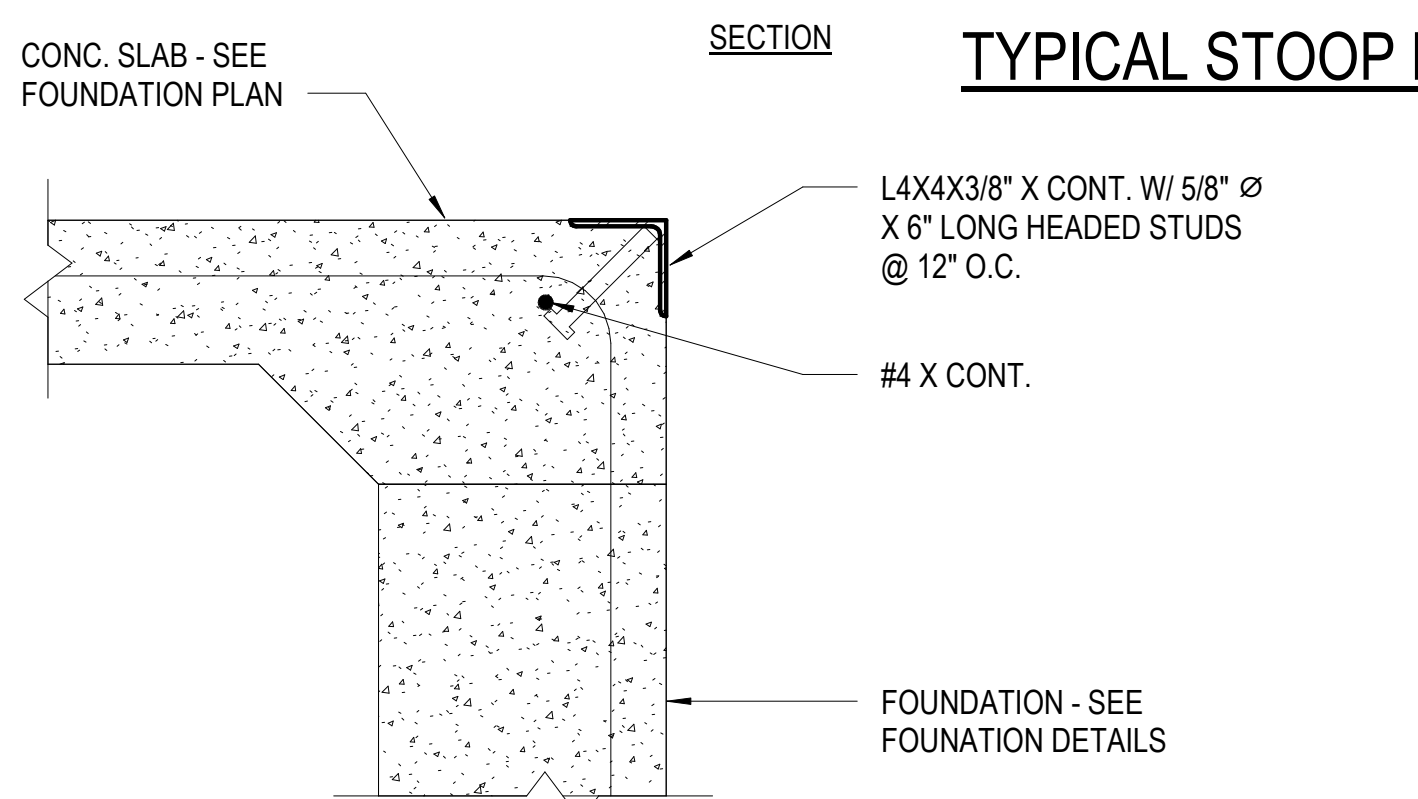
TYPICAL COLUMN FOOTING WITHOUT PIER



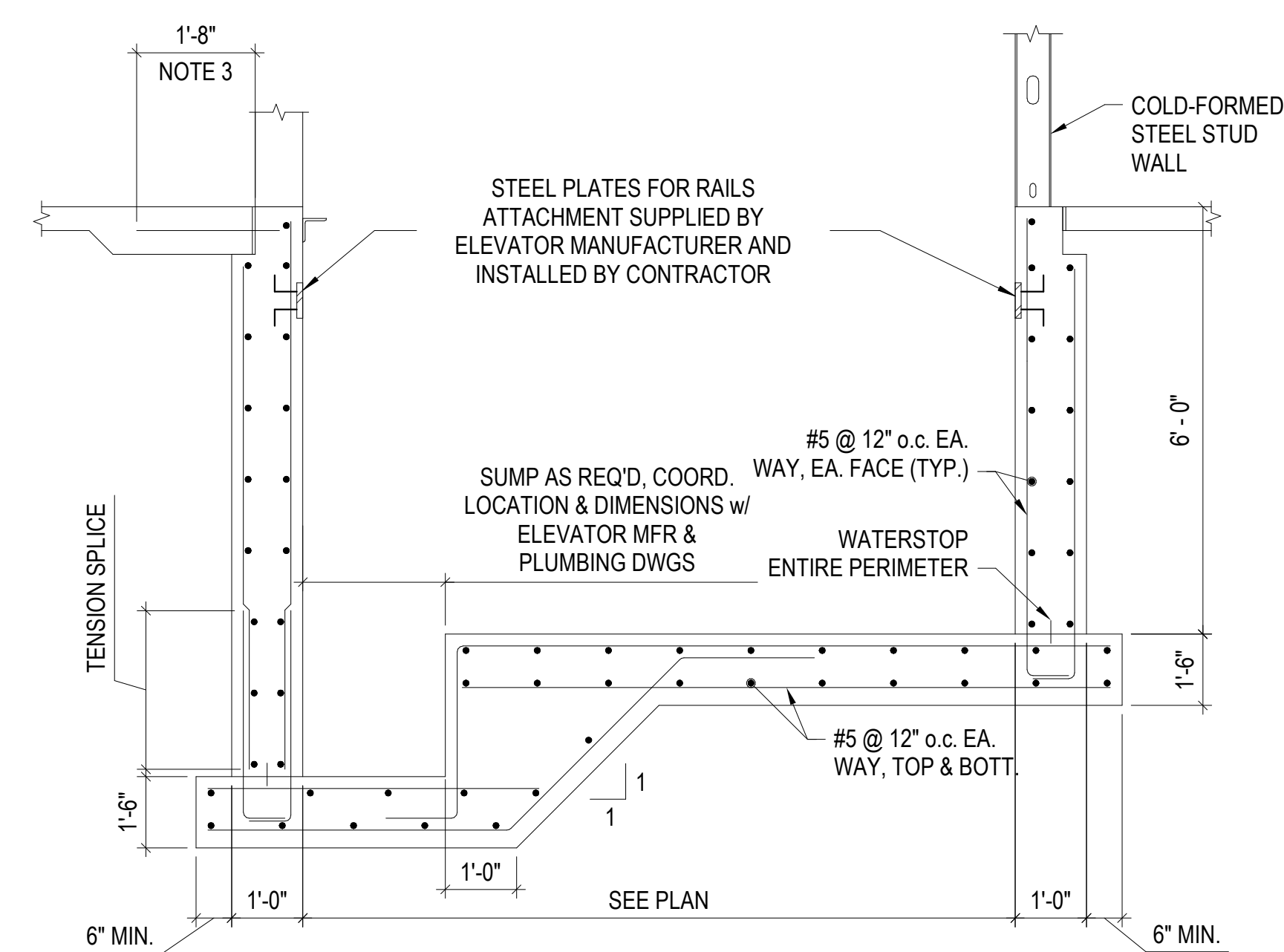
TYPICAL STOOP DETAIL @ DOORS



TYPICAL FOOTING STEP DETAIL

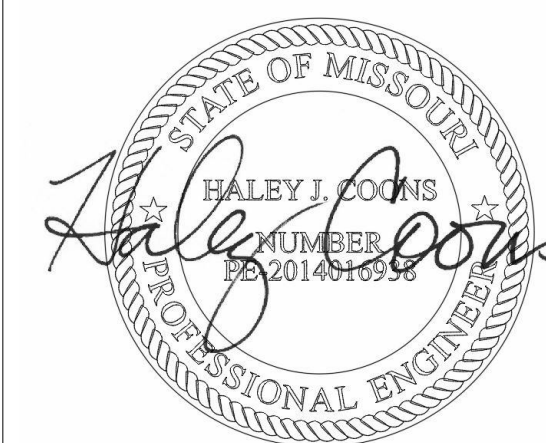


TYPICAL ANGLE @ OVERHEAD DOORS



- NOTES:
- 1/2" ISOLATION JOINT TYPICAL EXCEPT AT DOORWAY.
 - STEEL SHAPE FOR SUBSILLS TO BE COORDINATED w/ APPROVED ELEVATOR MANUFACTURER.
 - #4 @ 12" x 2'-0" DRILLED & GROUTED 4" INTO CONCRETE WALL AT DOOR OPENINGS.

TYPICAL ELEVATOR PIT DETAIL



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SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



6 SOUTH OLD ORCHARD AVE.
ST. LOUIS, MO 63119
T: 314.918.6393
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NGB # PN290179
SITE # 6322
FACILITY # 8136322001

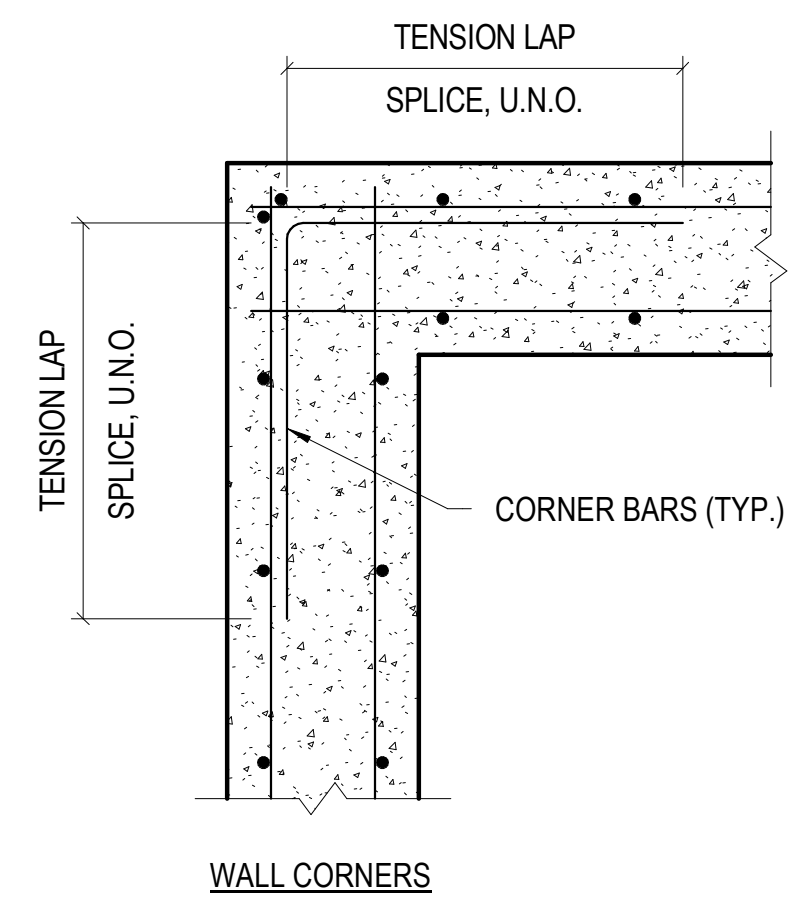
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DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: JYI
CHECKED BY: HJC
DESIGNED BY: _____
SHEET TITLE:
**TYPICAL CONCRETE
DETAILS**

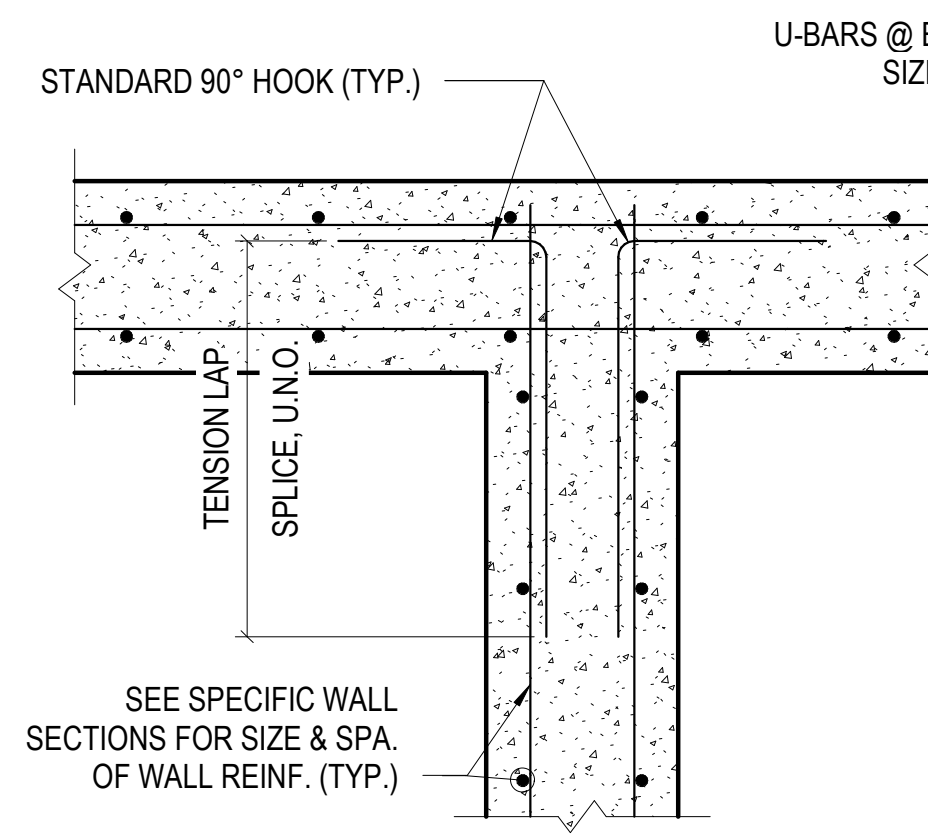
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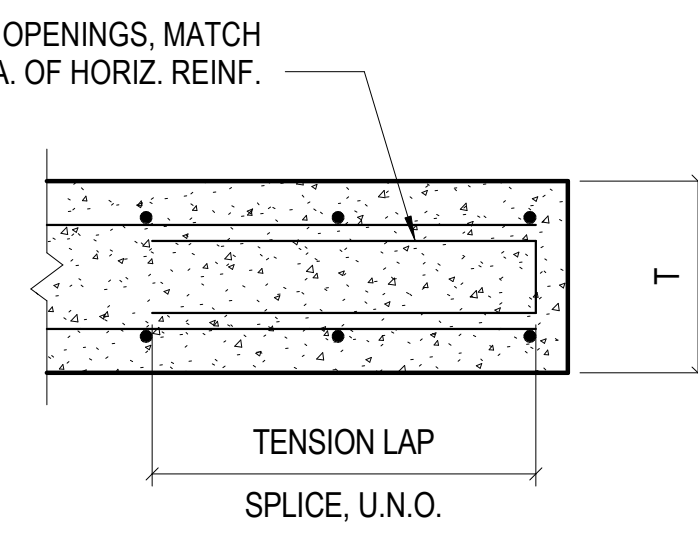
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WALL CORNERS

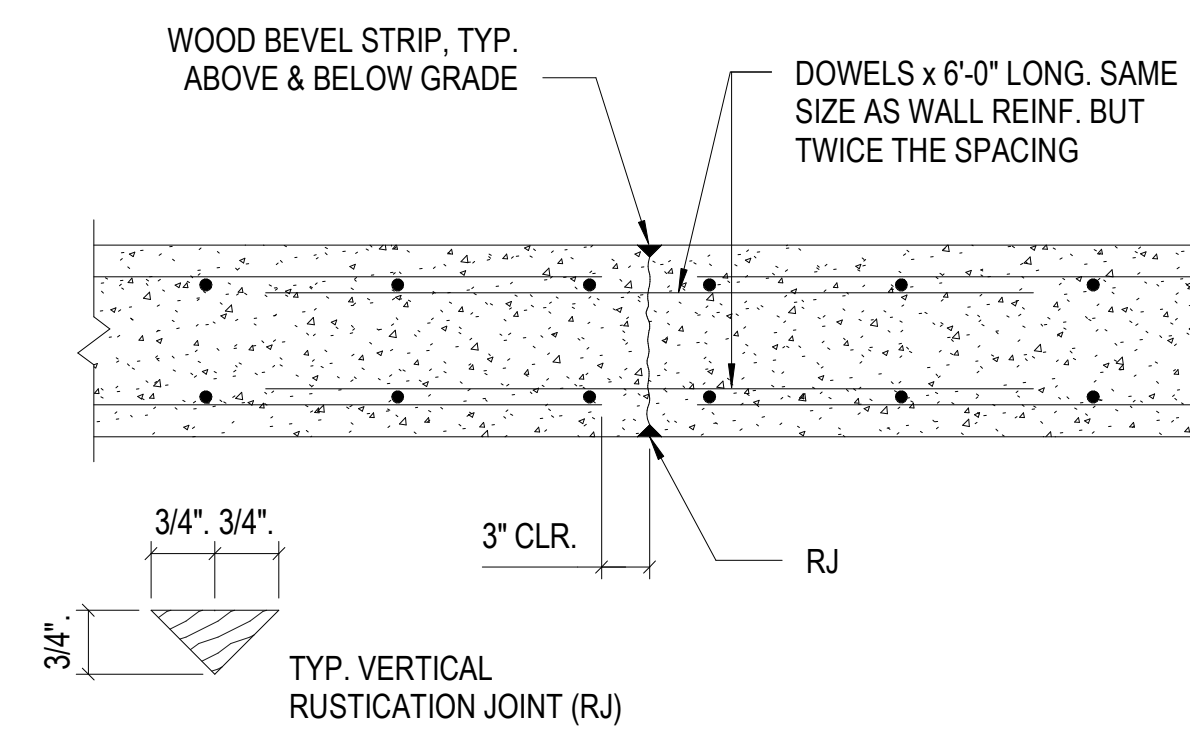


WALL INTERSECTION

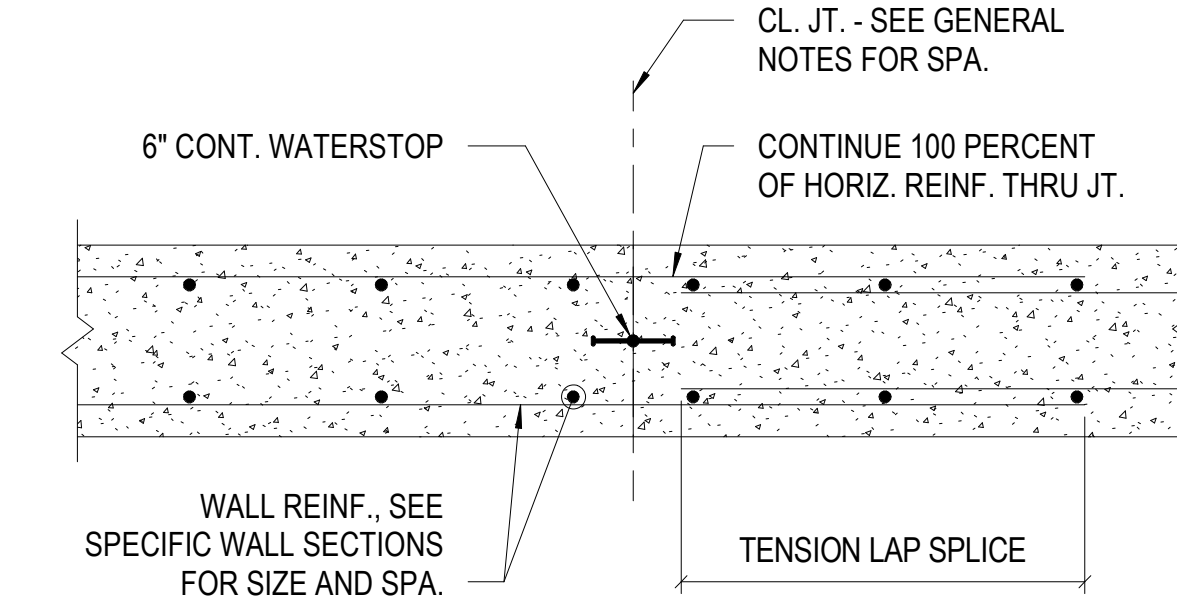


DISCONTINUOUS ENDS

TYPICAL WALL REINFORCING DETAILS

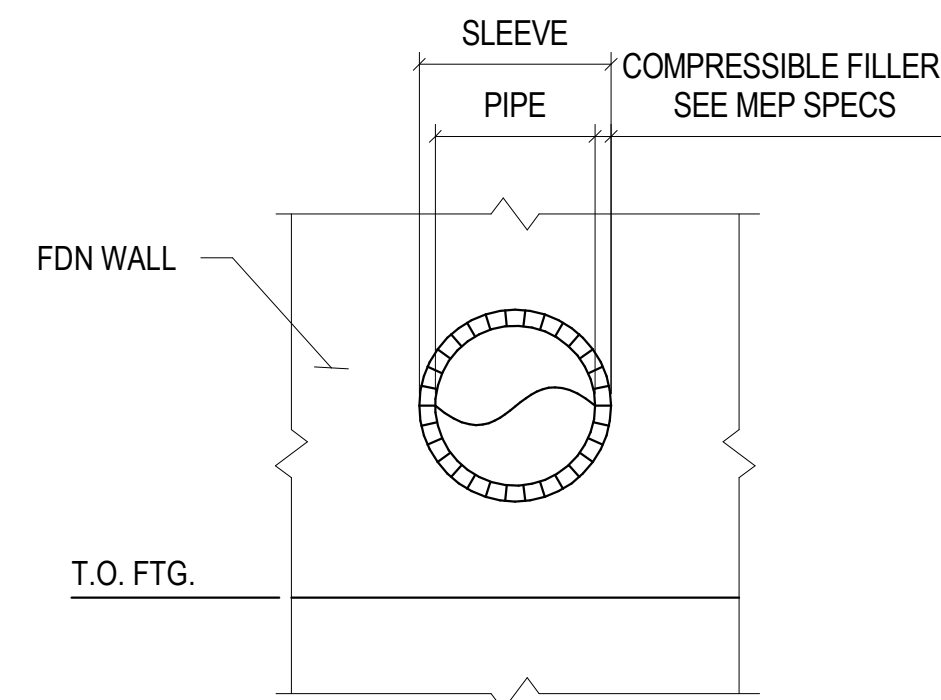


TYPICAL WALL CONTROL JT

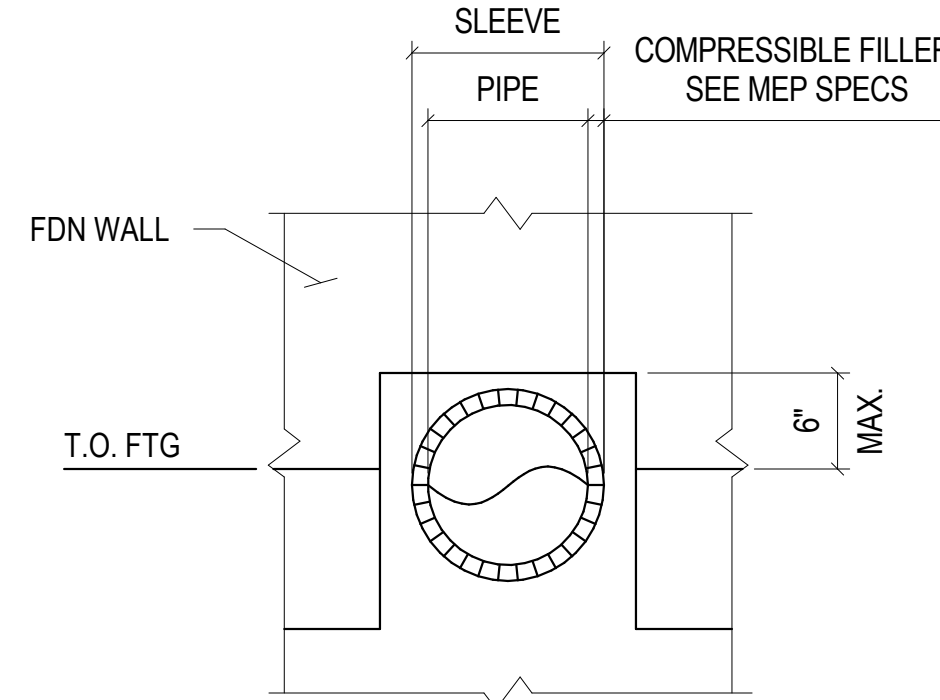


TYPICAL WALL CONSTRUCTION JT

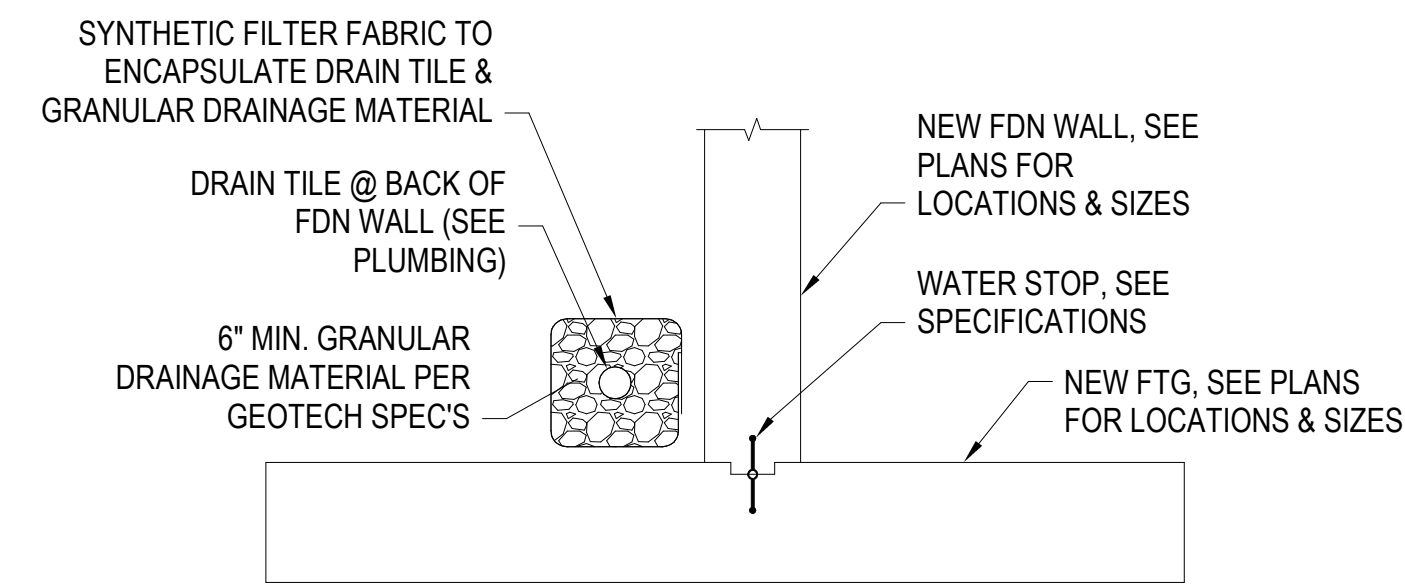
- NOTE:
1. WATERSTOP REQUIRED FOR SUB-GRADE WALLS RETAINING BACKFILL MATERIAL. OMIT OTHERWISE. ROUGHEN FIRST POUR TO A 1/4" AMPLITUDE OR FORM THE JOINT WITH A STAY-IN-PLACE PERFORMED METAL BULKHEAD TO ACHIEVE THE SAME RESULT.
 - 2.



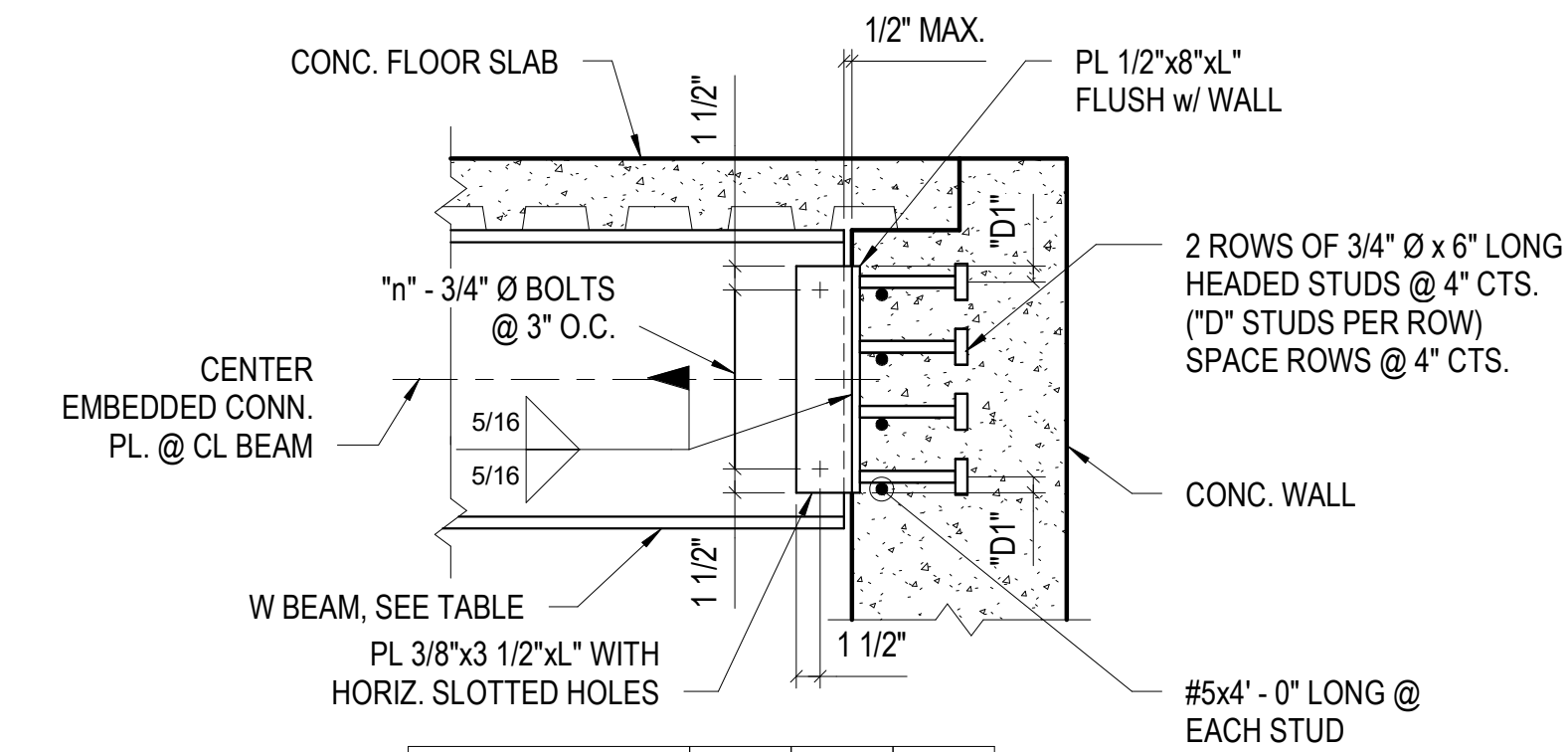
TYPICAL FOUNDATION WALL SLEEVE DETAIL



TYPICAL PIPE THRU FTG DETAIL

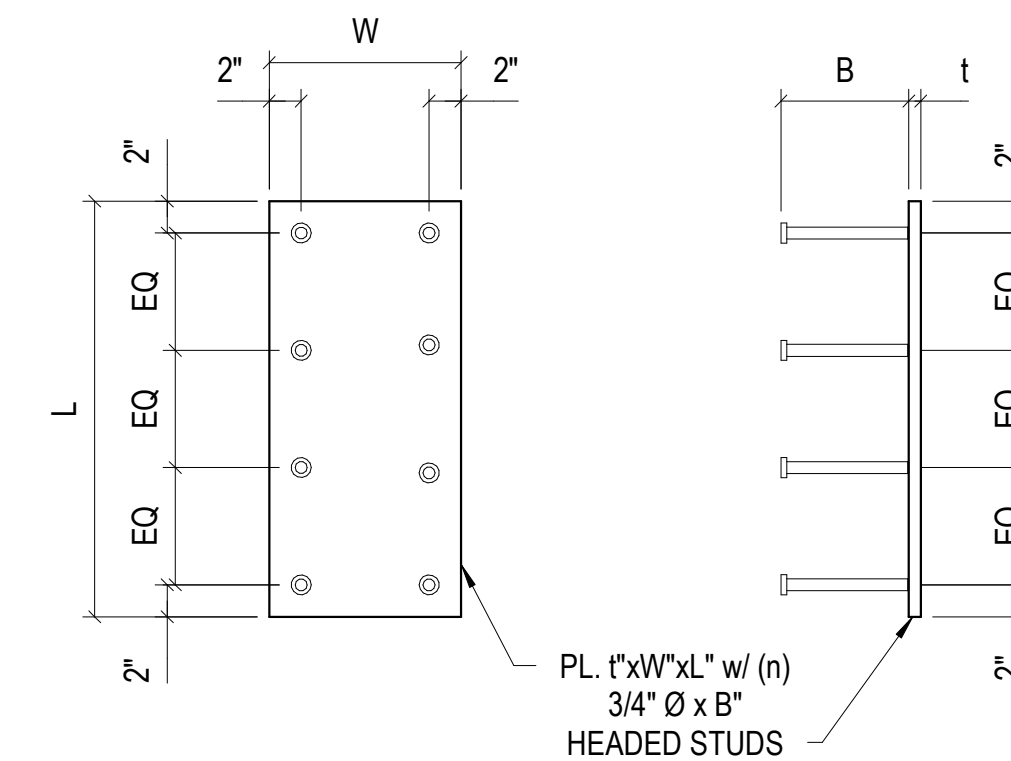


TYPICAL DRAIN TILE DETAIL AT FOUNDATION WALLS



BEAM DEPTH	L	n	D
W8 OR W10	6"	2	2
W12	9"	3	2
W14 OR W16	12"	4	3
W18	15"	5	4
W21	18"	6	5
W24	21"	7	5

TYPICAL BEAM CONNECTION AT FOUNDATION WALL

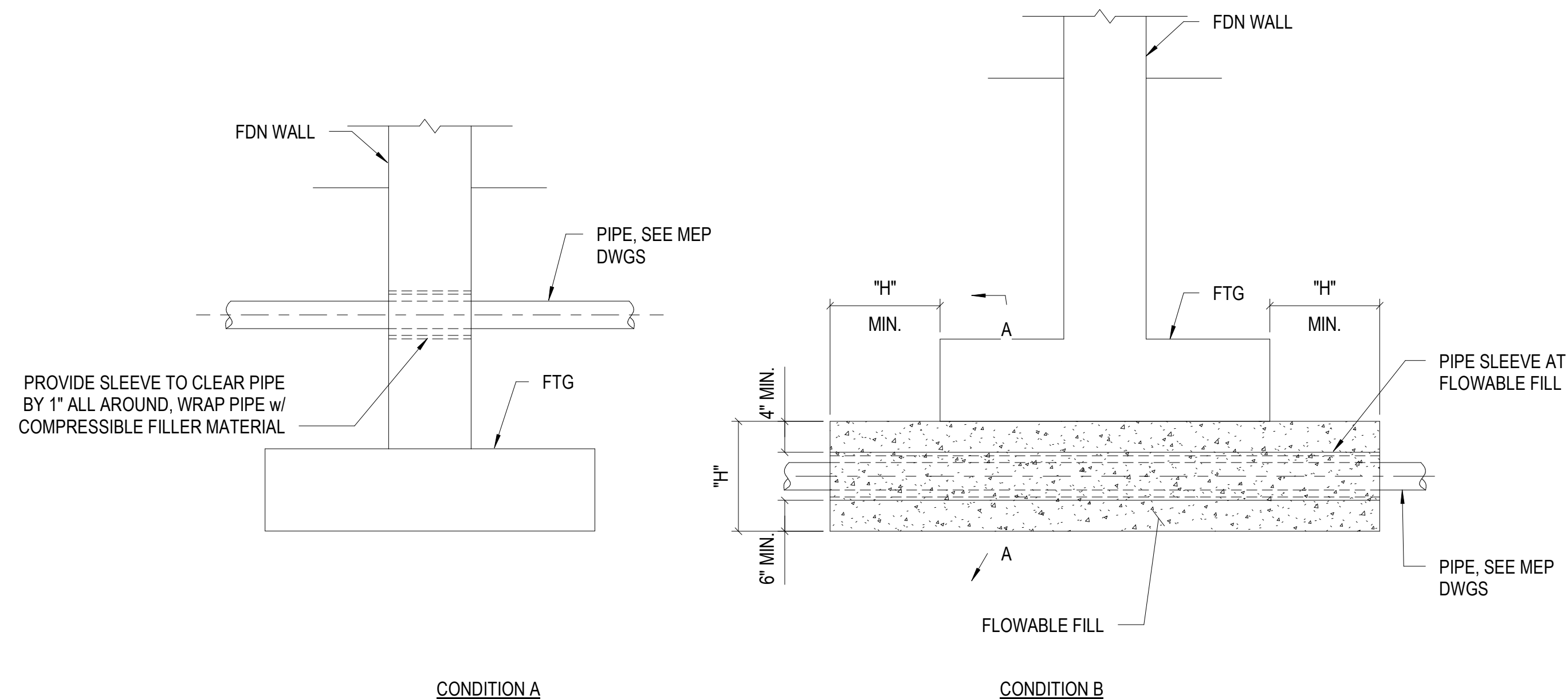


TYPICAL EMBED PLATE DIMENSIONS

BEAM	PLATE THICKNESS (t)	PLATE WIDTH (W)	PLATE LENGTH (L)	# OF STUDS (n)	STUD LENGTH (B)
C8/W8/W10	1/2"	10"	12"	4	6"
W12/W14	1/2"	12"	16"	6	6"
W16/W18	1/2"	12"	20"	6	6"
W21/W24	3/4"	14"	28"	8	8"
W30/W33	3/4"	18"	40"	8	8"

TYPICAL WALL PLATE SCHEDULE

NOTE: PROVIDE LONG SLOTTED HOLES IN SHEAR PLATE FOR TYPICAL BEAM CONNECTION. SEE S0.5.0 FOR CONNECTION SCHEDULE.



TYPICAL FOUNDATION DETAILS @ SITE UTILITIES

- NOTES:
1. REFERENCE MEP DRAWINGS FOR ALL LOCATIONS, ELEVATIONS, ETC. OF SITE UTILITIES.
 2. DETAIL REQUIRED AT ALL UTILITIES HAVING A PLAN WIDTH UP TO 3'-0". FOR ALL WIDTHS GREATER THAN 3'-0", REFERENCE PLAN FOR REQUIRED DETAIL.
 3. CONDITION B DOES NOT APPLY AT SPREAD FOOTING SITUATIONS BELOW COLUMNS. GENERAL CONTRACTOR SHALL NOTIFY ENGINEER SHOULD SUCH A CONDITION ARISE AND AWAIT FURTHER INSTRUCTIONS.
 4. DO NOT PLACE PIPE TRENCH BELOW WALL FOOTINGS IF PIPE RUNS PARALLEL TO WALL.
 5. NO PIPES WITHIN FOOTING DEPTH. STEP FOOTING DOWN BELOW PIPE IF ELEVATIONS CONFLICT.
 6. PLACE FLOWABLE FILL AROUND SLEEVE PRIOR TO POURING FOUNDATION FOR CONDITION B.
 7. DIMENSIONS NOTED ARE MINIMUM. IF DIMENSIONS CONFLICT WITH DIMENSIONS GIVEN ELSEWHERE, COMPLY WITH MOST STRINGENT REQUIREMENT.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



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SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
www.oatesassociates.com



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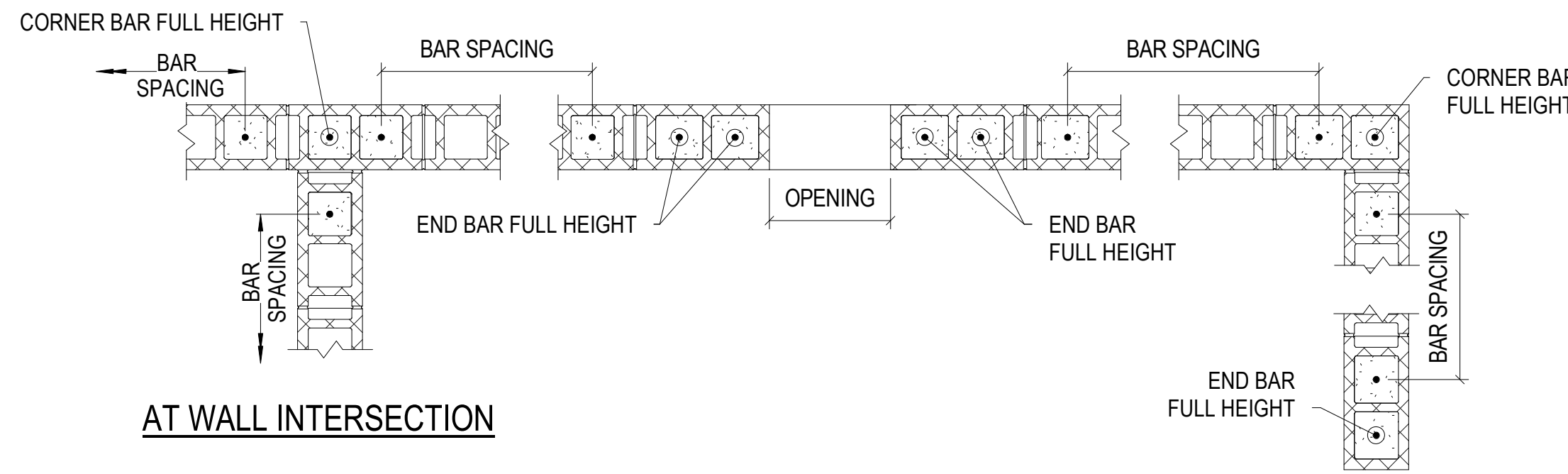
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DESIGNED BY: _____

SHEET TITLE:
**TYPICAL CONCRETE
DETAILS**

SHEET NUMBER:

S006

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05/03/2024



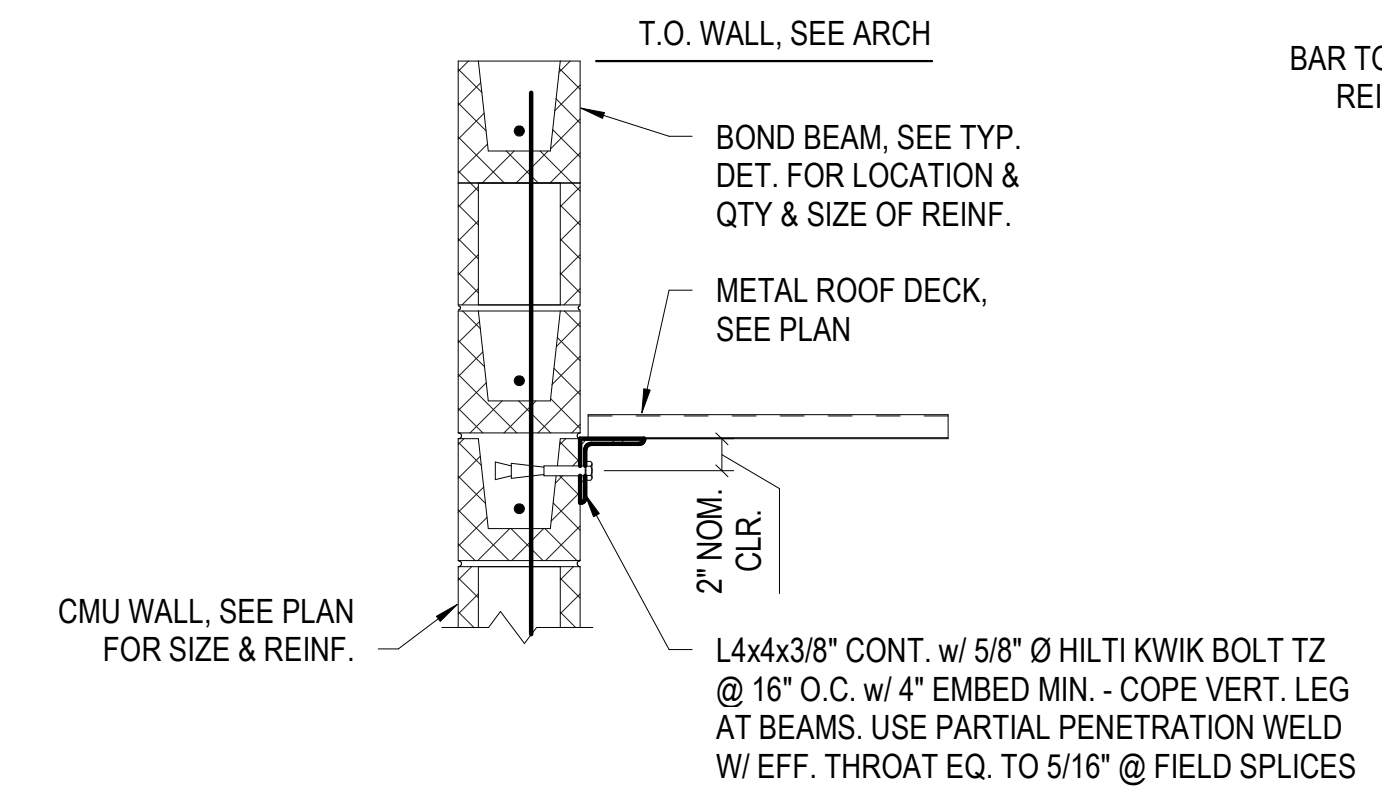
AT WALL INTERSECTION

WALL REINFORCEMENT NOTES:

- PROVIDE BOND BEAMS WITH (2) #5 BARS (CONT.) AT 12" CMU AND (1) #5 (CONT.) AT 8" CMU WALLS AT THE FOLLOWING LOCATIONS:
 - AT THE TOP AND BOTTOM OF ALL WALLS.
 - AT THE TOP AND BOTTOM OF ALL WALL OPENINGS (EXTEND BEAM 24" PAST THE FACE OF THE OPENINGS).
 - AT MIDHEIGHT.
 - AT ROOF SUPPORT LEVELS.
 - AT 4'-0" O.C. MAXIMUM.
- PROVIDE CORNER BARS AND BARS AT INTERSECTING WALLS OF MATCHING SIZE AS BOND BEAM REINFORCING AND SPLICE 20" WITH REGULAR BOND BEAM REINFORCING.
- PROVIDE CONTINUOUS HORIZONTAL TRUSS REINFORCEMENT AS FOLLOWS:
 - AT 16" VERTICAL CENTERS.
 - PROVIDE 2 TRUSS LAYERS AT 8" VERTICAL CENTERS ABOVE AND BELOW WALL OPENINGS (EXTEND 24" PAST THE FACE OF THE OPENINGS).
 - HORIZONTAL TRUSS REINFORCING SHALL NOT RUN THROUGH VERTICAL MASONRY CONTROL JOINTS.
- PROVIDE VERTICAL REINFORCEMENT IN GROUTED CELLS AS FOLLOWS UNO IN SCHEDULES OR DRAWINGS:
 - NON LOAD BEARING WALLS #5 @ 48" O.C.
 - EXTERIOR & LOAD BEARING WALLS #5 @ 32" O.C.
 - SHEARWALLS SEE SCHED.
- CORNER BARS AND END BARS SHALL BE THE SAME SIZE AS MAIN VERT. REINFORCEMENT.
- LOCATE VERTICAL BARS IN SAME CELL AS FOUNDATION DOWEL BARS. COORDINATE INSTALLATION WITH CONCRETE CONTRACTOR(S).

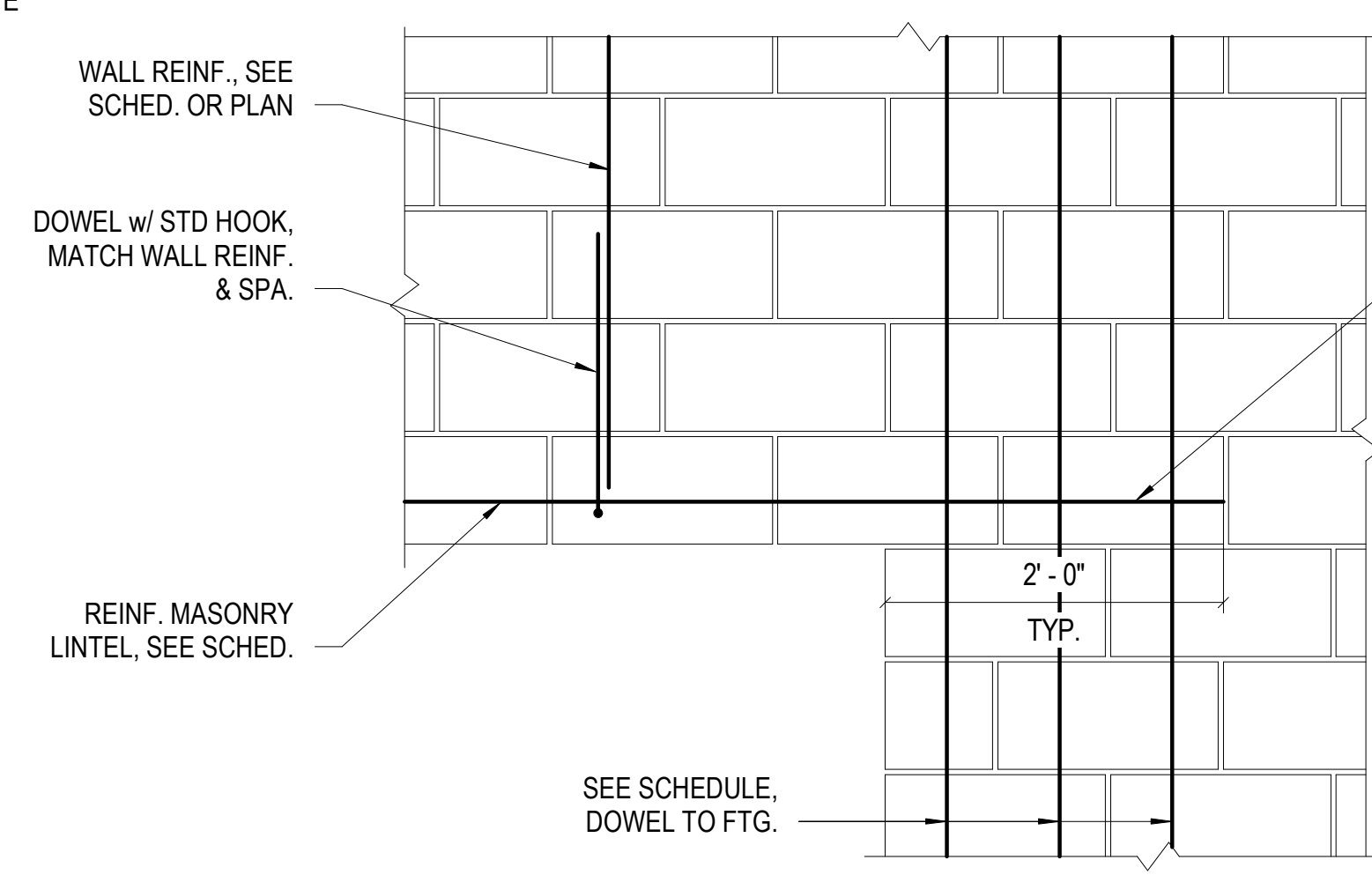
AT CORNER AND END

TYPICAL MASONRY WALL DETAILS

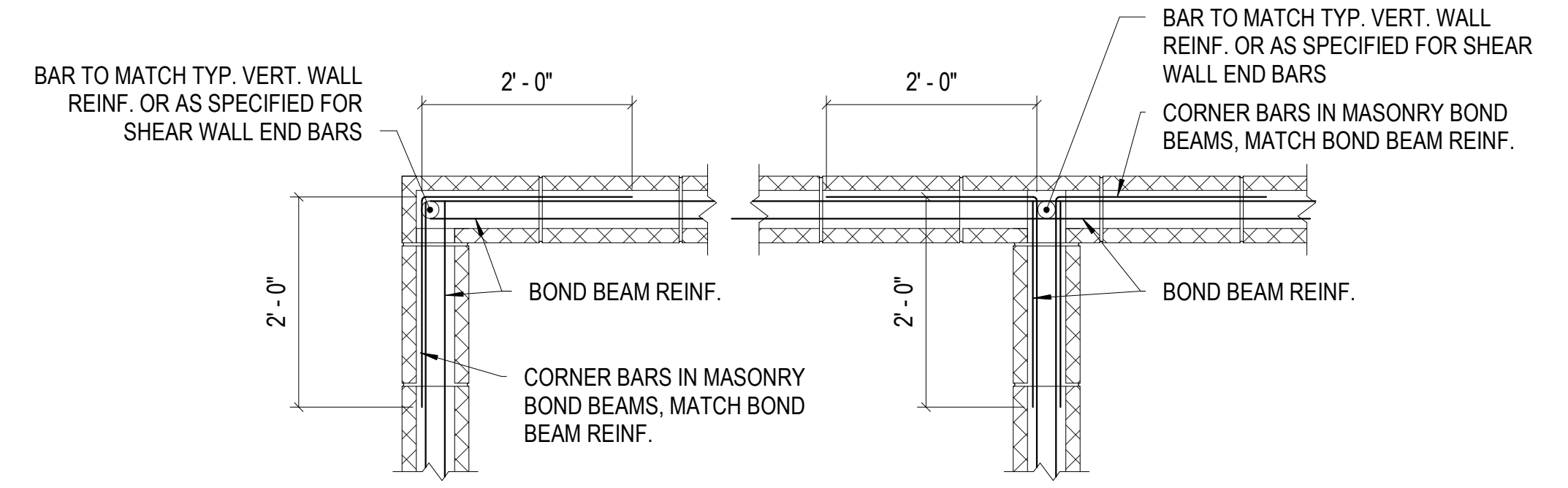


TYPICAL ROOF DECK SUPPORT AT MASONRY

NOTE: SIMILAR AT ROOF DECK PERPENDICULAR TO ORIENTATION SHOWN.

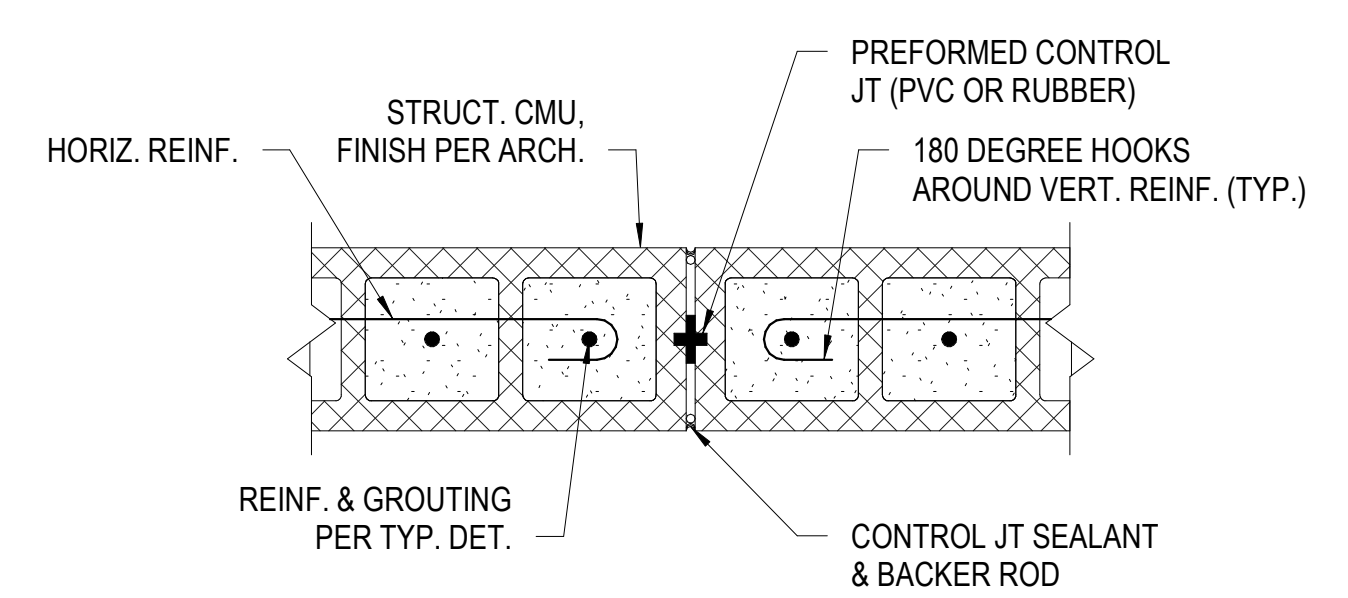


TYPICAL CMU WALL OPENING WITH REINFORCED MASONRY LINTEL

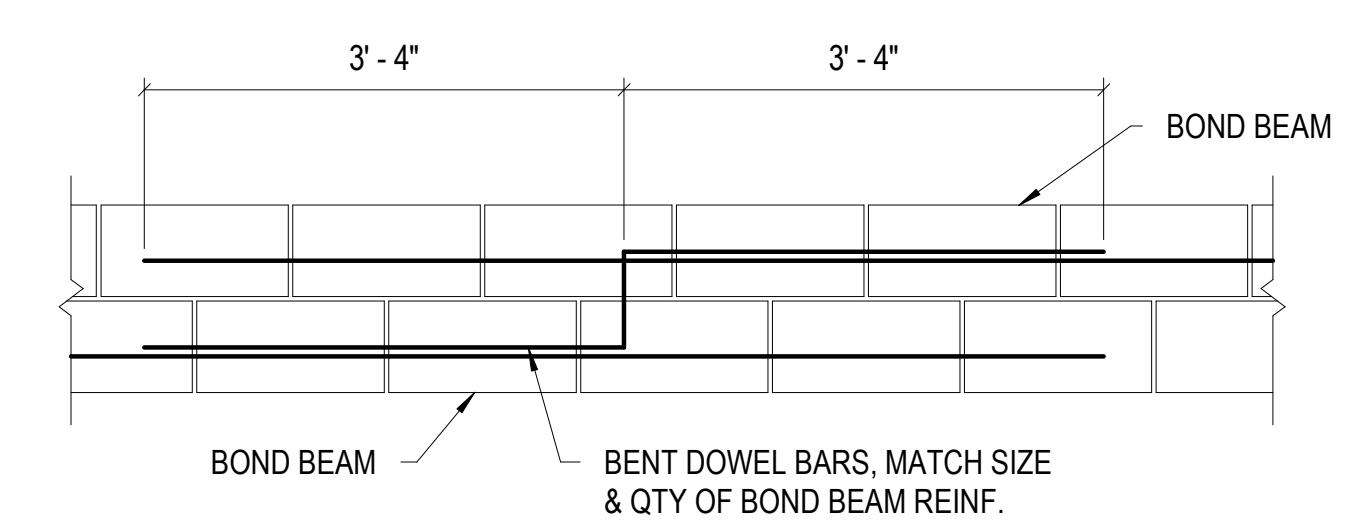


TYPICAL MASONRY WALL CORNER REINFORCING

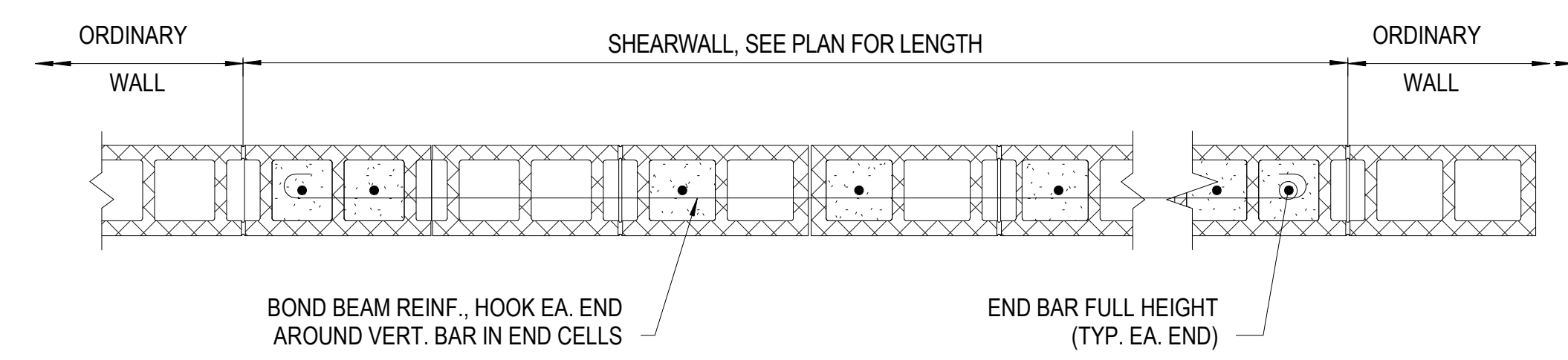
NOTE: 1. TYPICAL VERTICAL WALL REINFORCING NOT SHOWN FOR CLARITY.



TYPICAL MASONRY WALL CONTROL JT. DETAIL



TYPICAL STEPPED BOND BEAM DETAIL



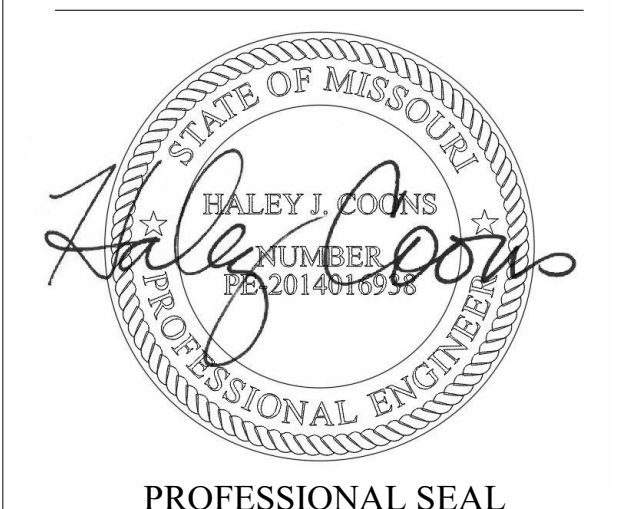
TYPICAL MASONRY SHEARWALL DETAIL

NOTE: SEE FOUNDATION PLAN FOR SHEARWALL VERT. BAR SIZE & SPACING.

REINFORCED CMU LINTEL SCHEDULE							TYPICAL DETAILS			
LINTEL NO.	OPENING SIZE	LINTEL DEPTH	REINFORCING				16" (NOM.) DEEP LINTEL	24" (NOM.) DEEP LINTEL	32" (NOM.) DEEP LINTEL	40" (NOM.) DEEP LINTEL
			8" WALL	12" WALL	BOTT. REINF.	TOP. REINF.				
L1	0'-8" - 4'-0"	24"	(2) - #5	(1) - #5	(2) - #5	(1) - #5				
L2	4'-1" - 6'-4"	24"	(2) - #5	(1) - #5	(2) - #5	(1) - #5				
L3	6'-5" - 10'-0"	24"	-	-	(2) - #5	(1) - #5				
L4	10'-1" - 12'-0"	32"	(2) - #5	(1) - #5	(2) - #5	(1) - #5				
L5	VARIES	40"	(2) - #5	(1) - #5	(2) - #5	(1) - #5				
L6	VARIES	16"	(2) - #5	(1) - #5	(2) - #5	(1) - #5				
L7	VARIES	48"	(2) - #5	(1) - #5	(2) - #5	(1) - #5				

- NOTES:
- TYPICAL JAMB REINFORCING: (3) #5 VERT. EA. SIDE OF OPENING W/ DOWELS TO FDN. TO MATCH, UNO IN SCHEDULES OR DRAWINGS.
 - FOR WALLS WITH (2) LAYERS OF VERTICAL REINFORCING USE (2) #6 VERT. @ 8" O.C.
 - EXTEND LINTEL REINFORCING TO END OF JAMB EACH SIDE OF OPENING OR 2'-0" WHICHEVER IS LARGER.
 - GROUT CELLS IN JAMBS FULL HEIGHT.
 - PLACE C.M.U. IN RUNNING BOND.
 - FOR ROW OF OPENINGS, LINTELS AND LINTEL REINFORCING SHALL BE CONTINUED.
 - WHEN BARS ARE PLACED IN TWO LAYERS, LAYERS SHALL BE SPACED 3" APART FROM CENTERLINE TO CENTERLINE OF REINFORCING.

TYPICAL REINFORCED MASONRY LINTEL SCHEDULE



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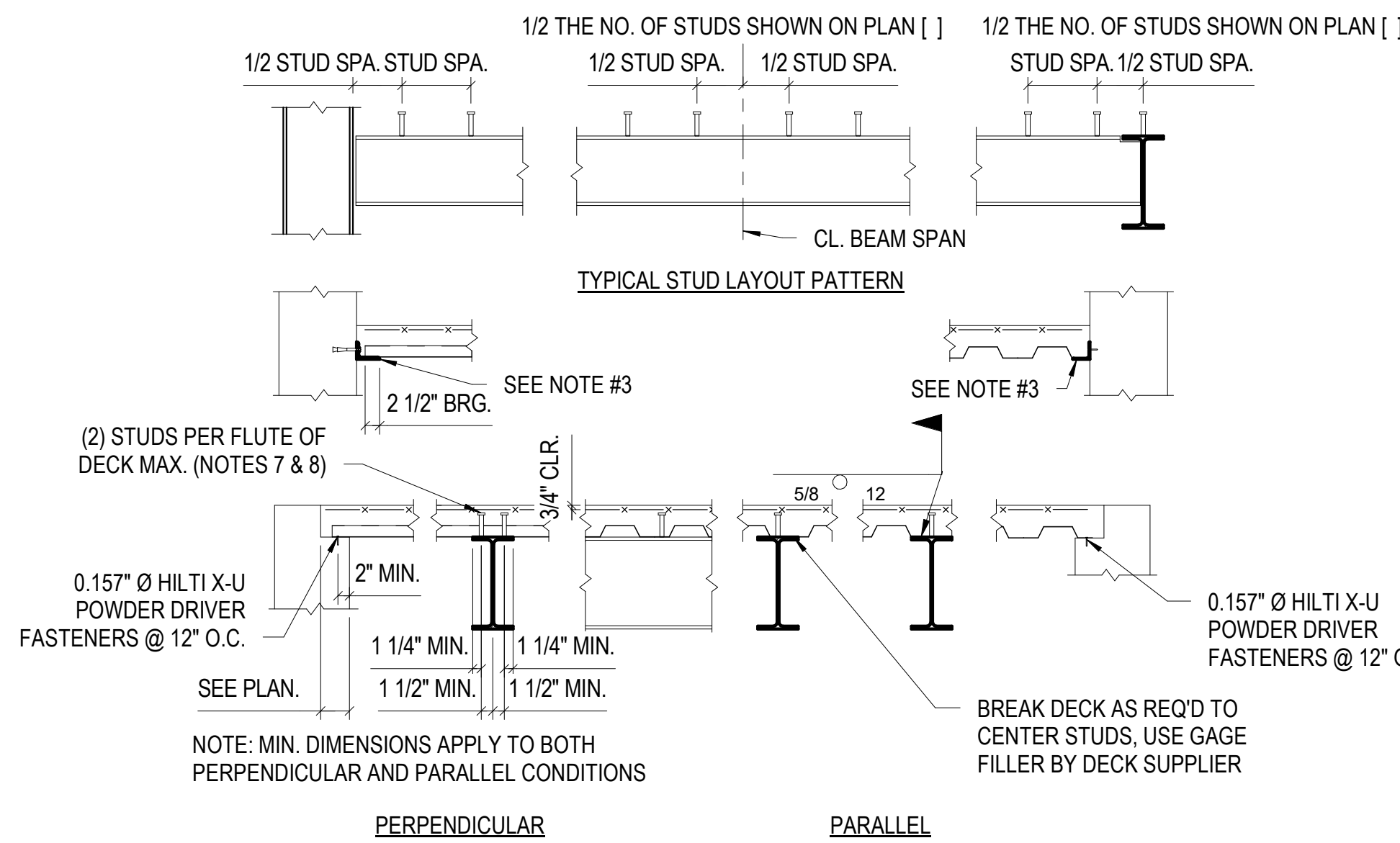
PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: JYI
CHECKED BY: HJC
DESIGNED BY: _____

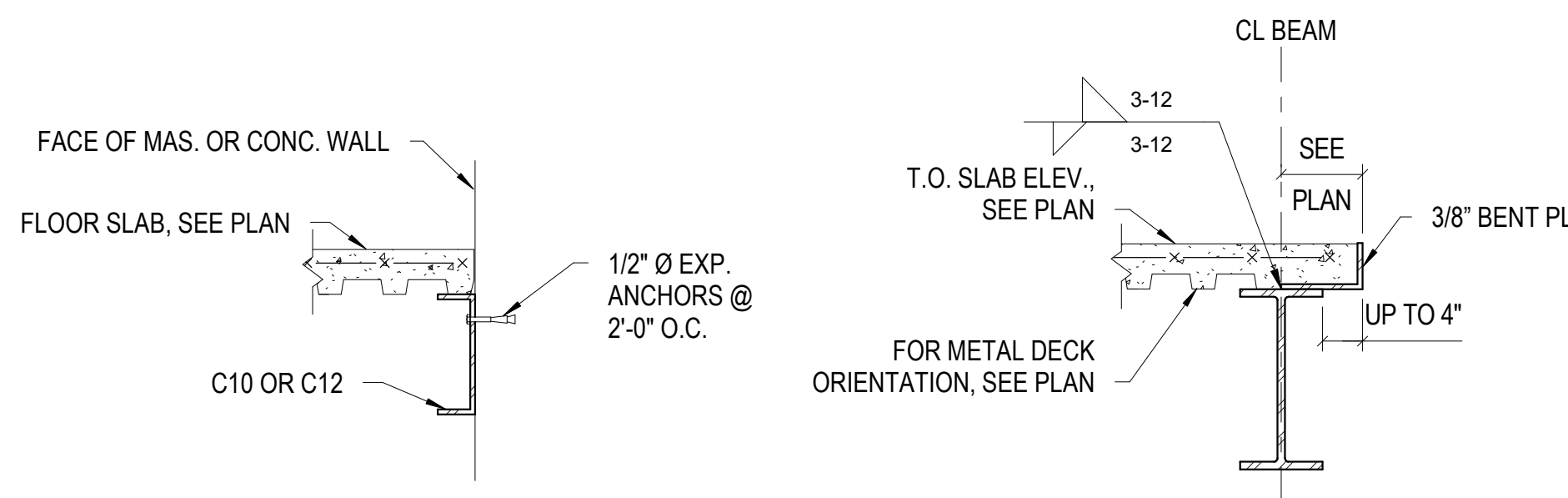
SHEET TITLE:
**TYPICAL MASONRY
DETAILS**

SHEET NUMBER:
S007
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05/03/2024

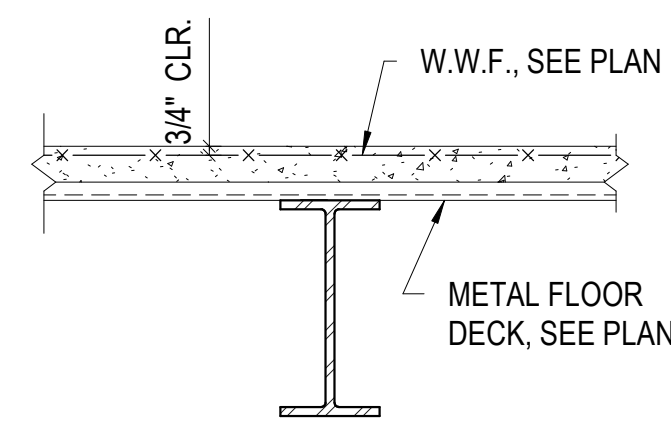


- NOTES:
- W16x36 [38]
 - WELDING OF STEEL DECK
 - DECK SUPPORT @ CONC. WALL OR COL.
 - DECK SUPPORT @ STEEL COL.
 - CONTINUITY OF DECK BEARING OF DECK
 - TWO ROWS OF STUDS
 - SPACING OF STUDS
 - DEFLECTION OF DECK SLAB
 - MINIMUM BEAM SIZE
 - COMPOSITE STUD SIZES
- [XX] INDICATES NUMBER OF END WELDED STUDS EQUALLY SPACED ON TOP FLANGE OF BEAM. PLACE (1) STUD PER RIB ACROSS ENTIRE LENGTH OF BEAM. ANY REMAINING STUDS SHALL BE PLACED IN (2) ROWS FROM ENDS TO MID SPAN. COMPOSITE BEAMS ARE DESIGNED UNSHORED. AT EACH SUPPORT WITH (4) 5/8" Ø PUDDLE WELDS PER SHEET. STUD WELDING THROUGH DECKING CAN BE CONSIDERED AS ONE PUDDLE WELD. DO NOT PRIME TOP FLANGE OF STEEL BEAMS. *SIDE LAPS TO BE CRIMPED OR SCREWED @ 36" O.C. MAX. AT DECK BEARING, USE L4x3x3/8" (LLH) FASTENED TO CONCRETE WITH 1/2" Ø HILTI KB 3 @ 18" O.C. w/ 3/12" EMBEDMENT. AT DECK EDGE, USE L3x3x1/4 GA. FASTENED TO CONCRETE WITH 0.145" Ø POWDER ACTIVATED FASTENERS @ 12" O.C. USE L3 1/2"x3 1/2"x16 GA. WELDED @ PERIMETER OF STEEL COLUMN. MINIMUM 2 SPAN CONTINUOUS - UNSHORED. MINIMUM 3" END BEARING ON CONCRETE AND 2 1/2" ON STEEL. SEE DETAIL OF STUDS FOR BEAMS PERPENDICULAR TO DECK RIBS. PLACE STUDS IN RIBS ON "RIB SPACING MODULE". USE TWO ROWS OF STUDS IF REQUIRED AND INCREASE NUMBER OF STUDS AS REQUIRED. MINIMUM SPACING FOR STUDS IS 4 1/2" O.C.; MAXIMUM SPACING IS 3'-0" O.C. PROVIDE 2 ROWS OF STUDS IF MINIMUM SPACING CANNOT BE MET. DO NOT PLACE STUDS ON CANTILEVER SPAN OF BEAM. MAKE ALLOWANCE IN CONCRETE VOLUME TO ACCOMMODATE DEFLECTION OF DECK SLAB ASSEMBLY DUE TO WEIGHT OF WET CONCRETE. FOR W10x12, W12x14, AND W12x16 BEAMS, STUDS SHALL BE WELDED DIRECTLY OVER THE BEAM WEB. ALL COMPOSITE STUDS ARE 3/4" Ø. USE 3" STUDS FOR 1 1/2" DECK, 3 1/2" STUDS FOR 2" DECK, AND 5 1/2" STUDS FOR 3" DECK.

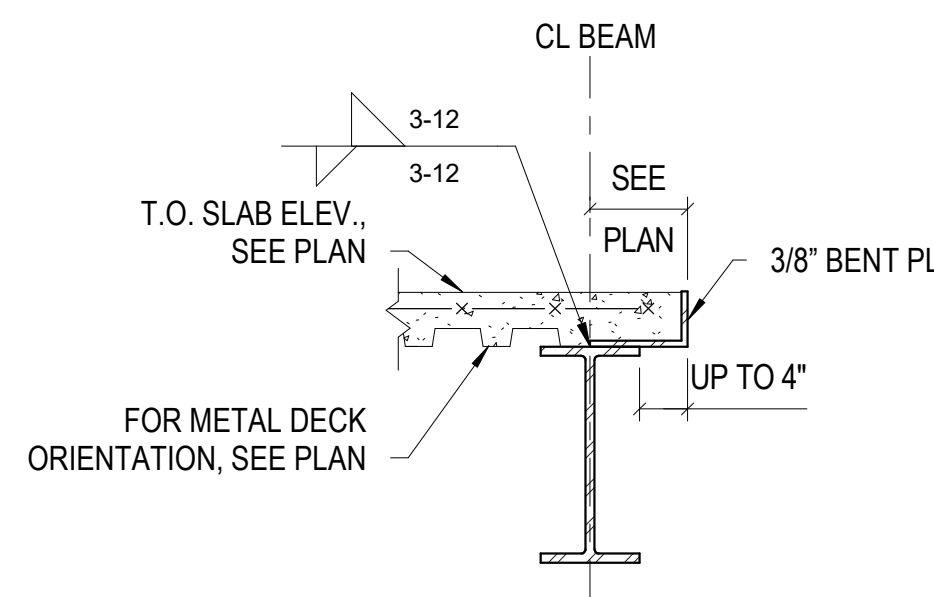
TYPICAL COMPOSITE SLAB CONSTRUCTION DETAIL



FLOOR SLAB TO WALL DETAIL

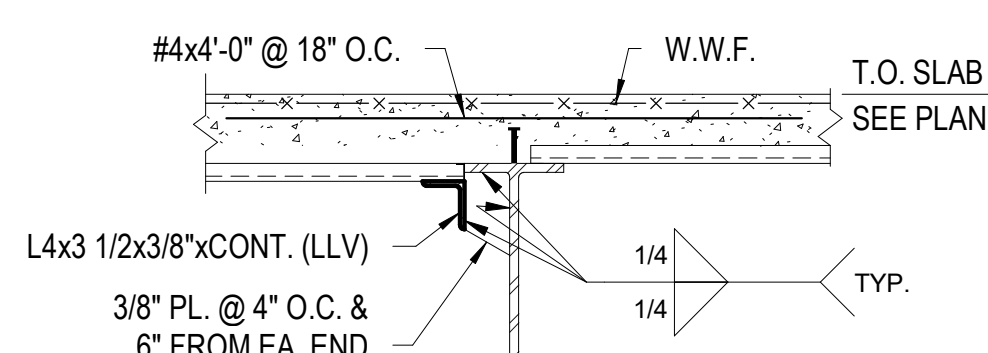


TYPICAL ELEV. SLAB DETAIL

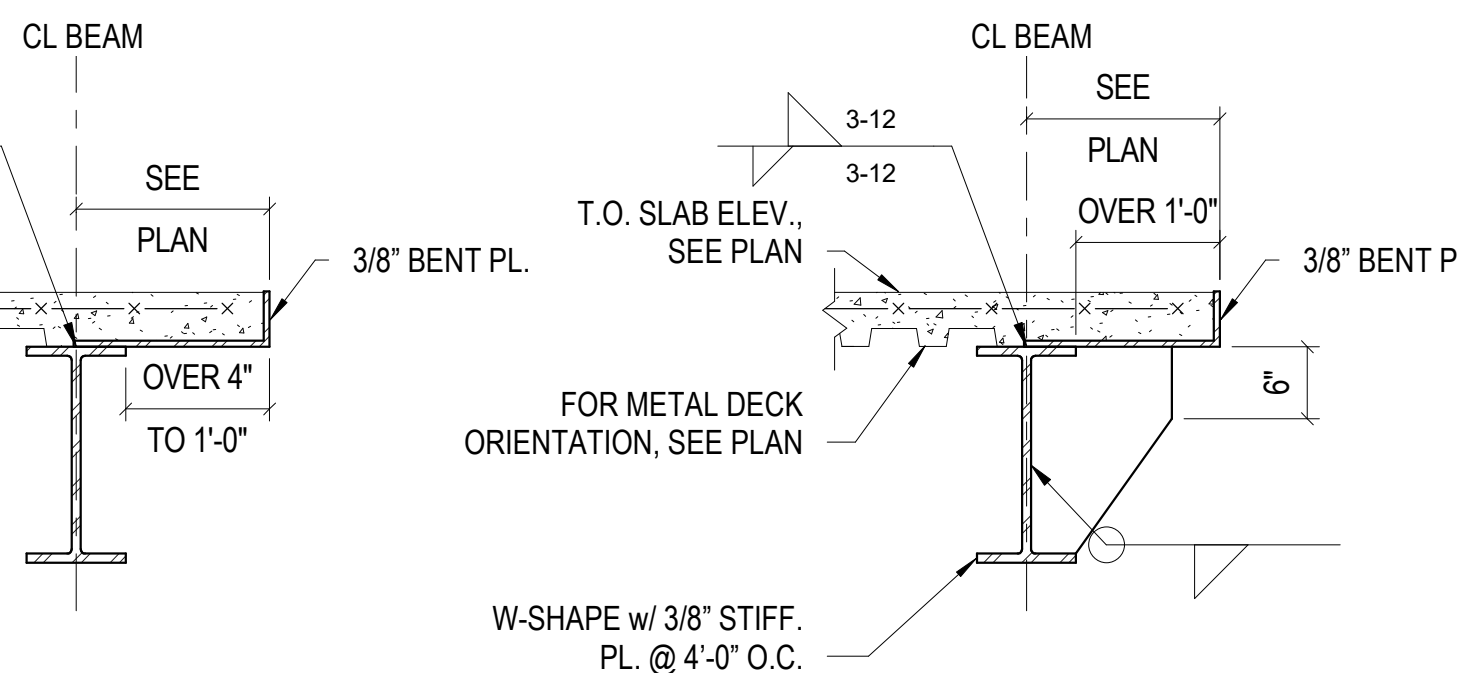


TYPICAL EDGE OF SLAB SUPPORT DETAIL U.N.O.

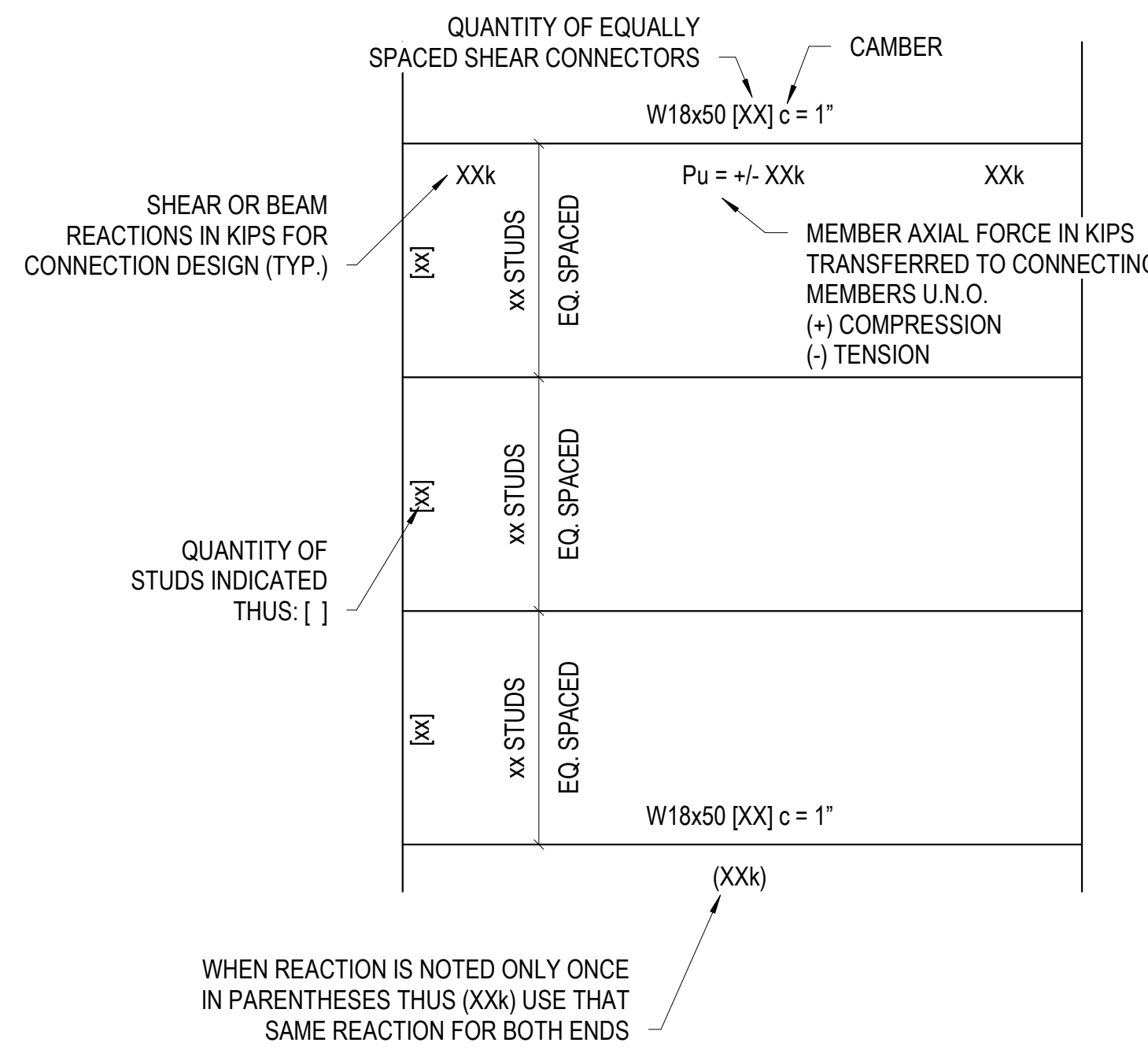
- NOTE:
- ROOF EDGE OF DECK SUPPORT DETAIL SIMILAR.
 - ROOF EDGE OF DECK SUPPORT SHALL BE CONTINUOUS AROUND ENTIRE PERIMETER, UNLESS NOTED OTHERWISE. WELD ALL AROUND AT SPLICES TO MAKE CONTINUOUS. AT CORNERS, MITER ANGLE 45 DEGREES AND WELD ALL AROUND TO MAKE CONTINUOUS.



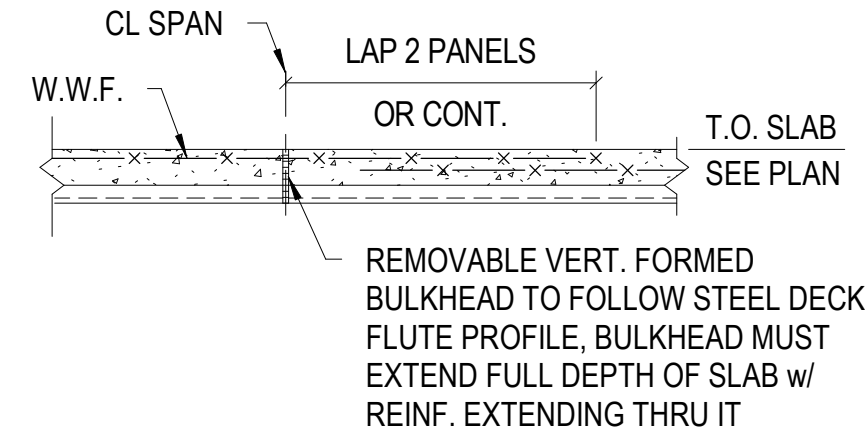
TYPICAL SLAB THICKNESS CHANGE



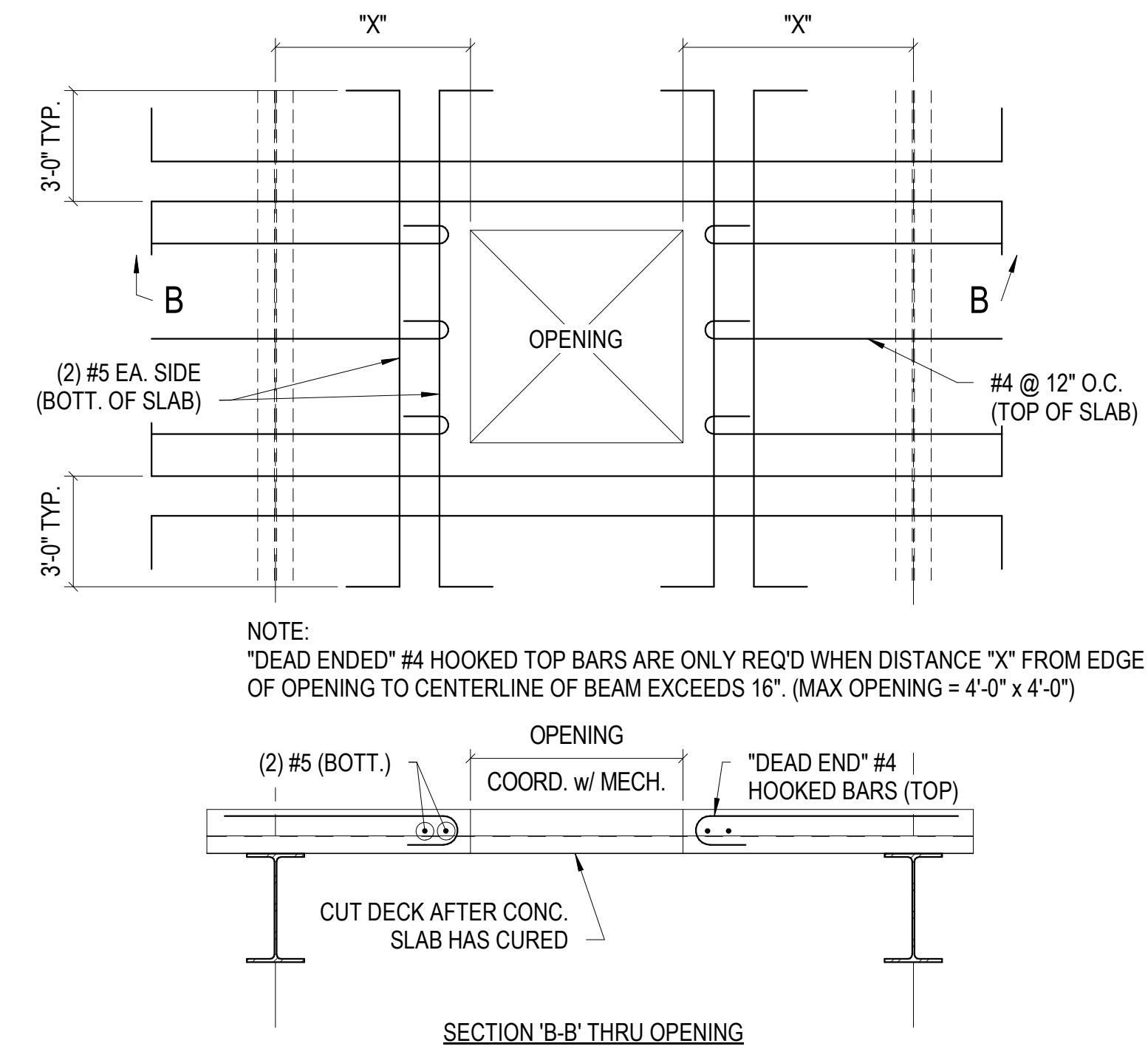
TYPICAL SLAB CONDITION WHERE STEEL DECK CHANGES DIRECTION



TYPICAL COMPOSITE BEAM LEGEND

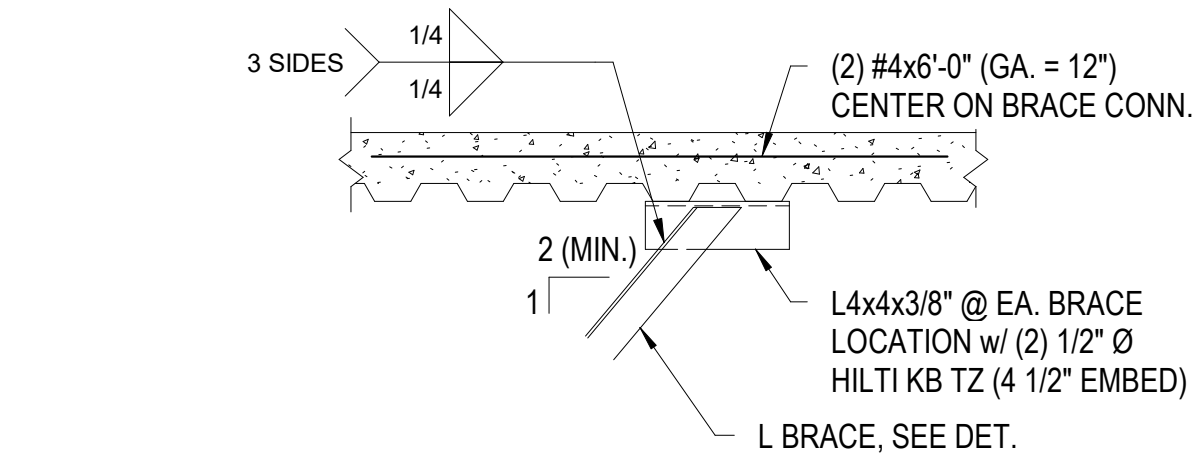


TYPICAL WELDED WIRE FABRIC REINFORCED COMPOSITE SLAB CONSTRUCTION JOINT



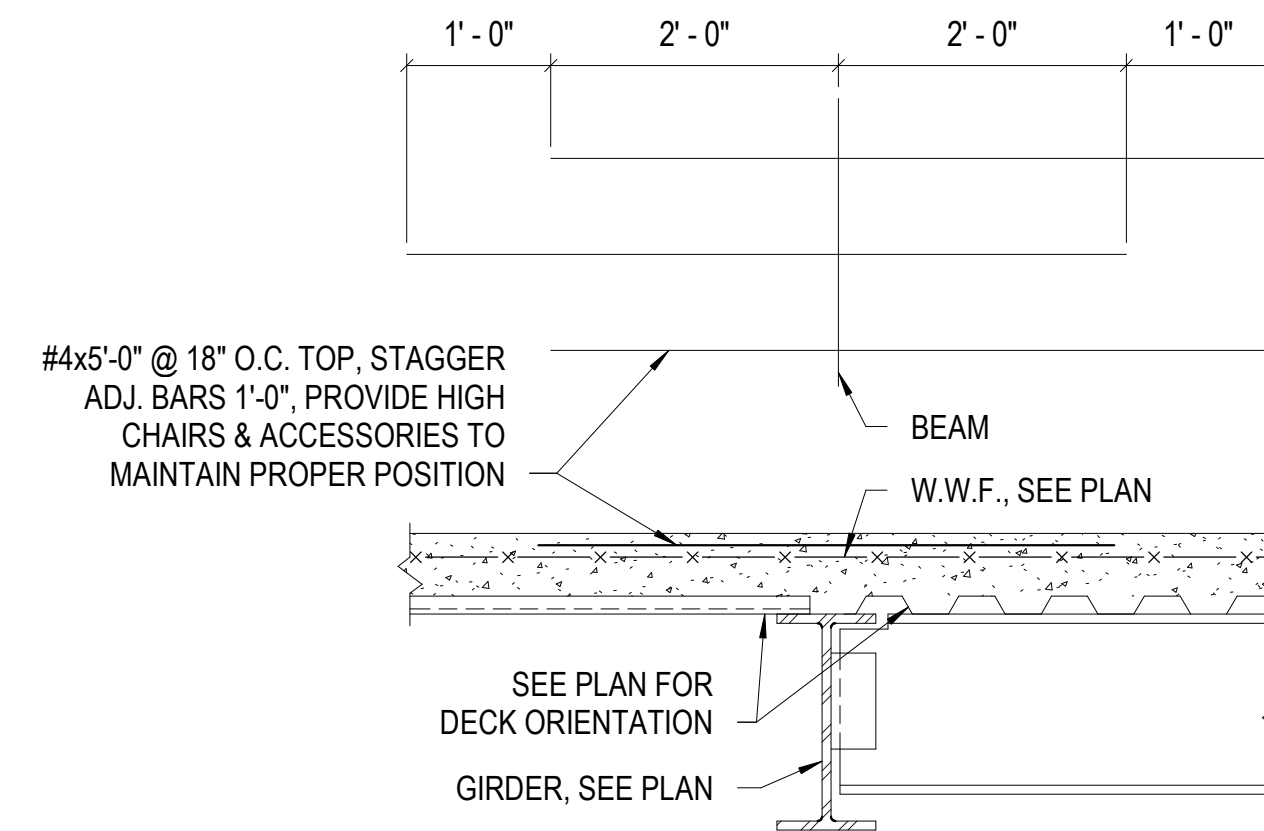
TYPICAL COMPOSITE FLOOR OPENING DETAIL

- NOTE:
- NO REINFORCING REQUIRED FOR OPENINGS 10" OR LESS.

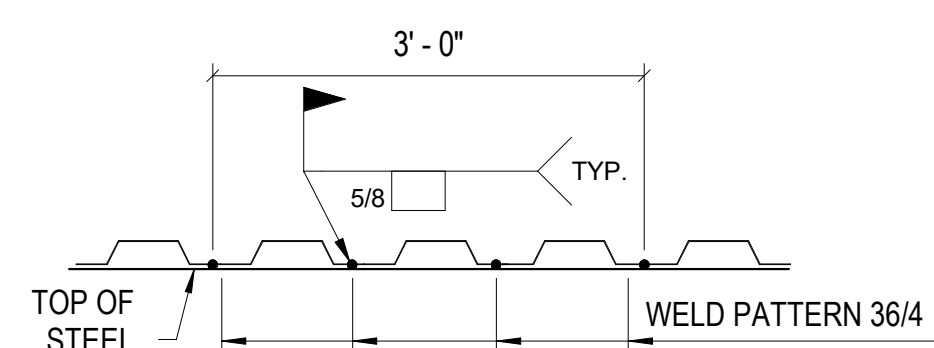


TYPICAL L BRACE TO COMPOSITE DECK DETAIL

- NOTE:
- SLOPE OF BRACE SHALL NOT BE STEEPER THAN 1:2 WHEN FRAMING TO BOTTOM OF COMPOSITE FLOOR SLAB.

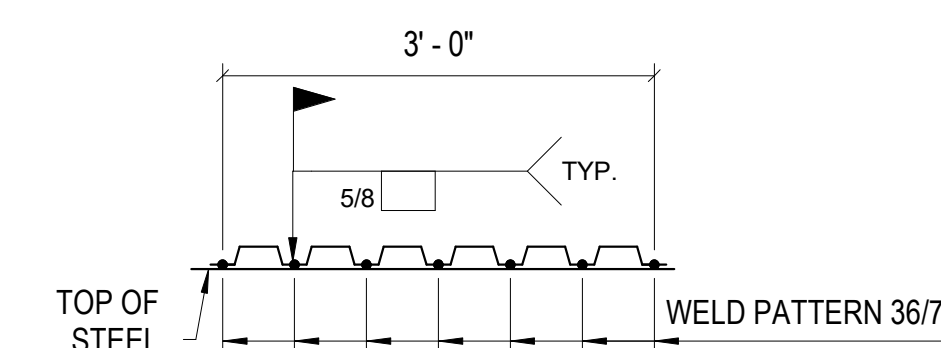


TYPICAL TOP REINF OVER BEAMS & GIRDERS U.N.O.



TYPICAL FLOOR DECK DETAIL

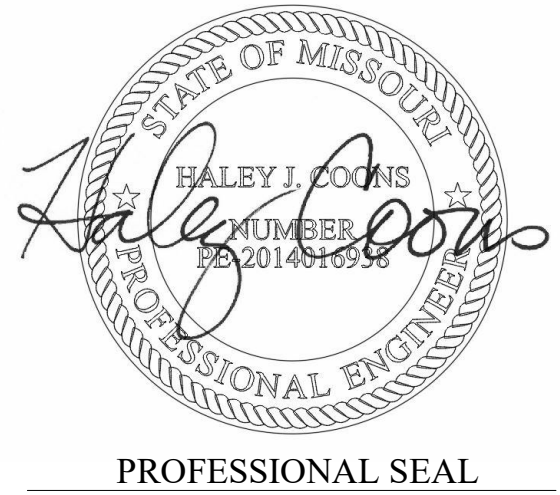
- NOTES:
- SIDLAP FASTENERS: #10 TEK SCREWS @ 6" O.C.
 - PERIMETER WELDS: 5/8" Ø PUDDLE WELDS @ 4" O.C.



TYPICAL ROOF DECK DETAIL

- NOTES:
- SIDLAP FASTENERS: #10 TEK SCREWS @ 6" O.C.
 - PERIMETER WELDS: 5/8" DIA. PUDDLE WELDS @ 6" O.C.

TYPICAL DECK DETAILS



ONE SOUTH MEMORIAL DRIVE
SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
www.oatesassociates.com



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ST. LOUIS, MO 63119
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F: 314.918.1766
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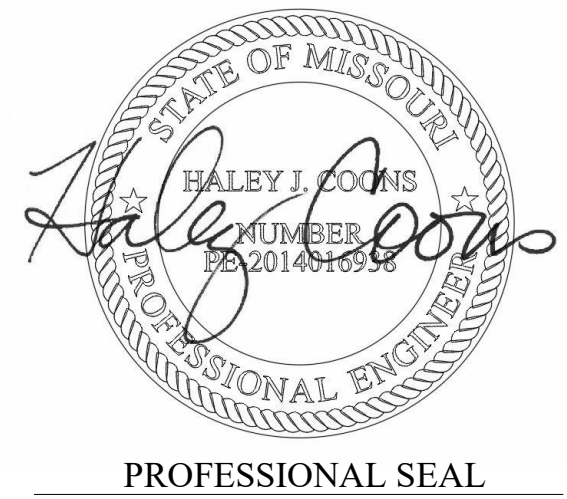
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DRAWN BY: JYI
CHECKED BY: HJC
DESIGNED BY:

SHEET TITLE:
**TYPICAL STEEL
DETAILS**

SHEET NUMBER:

S008

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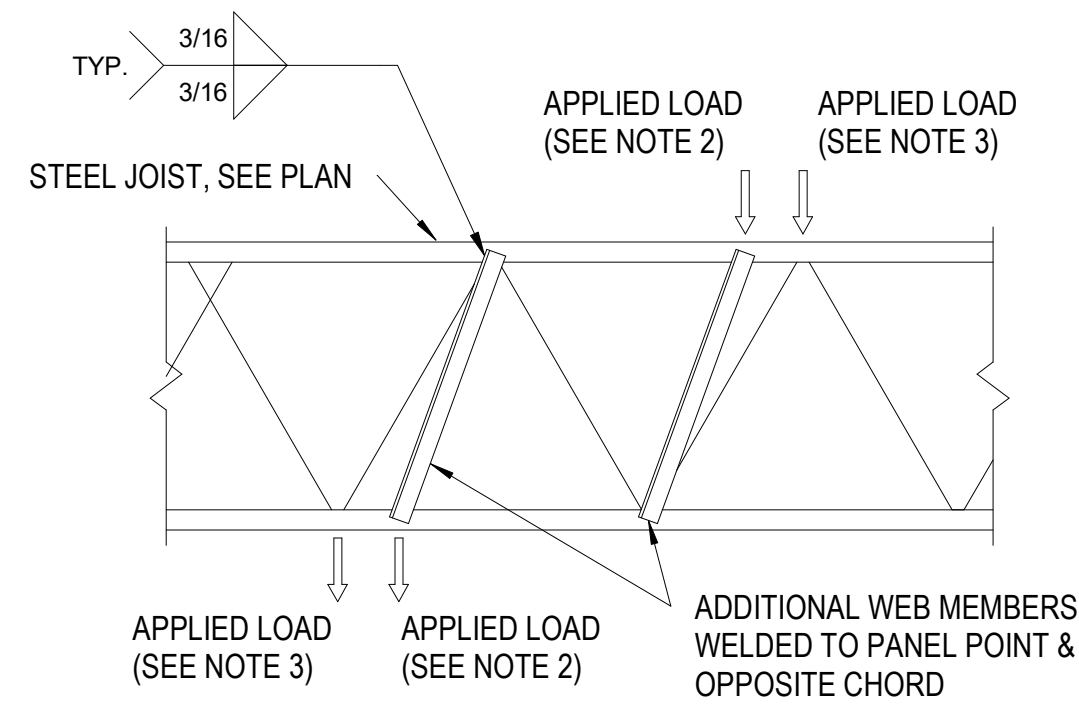
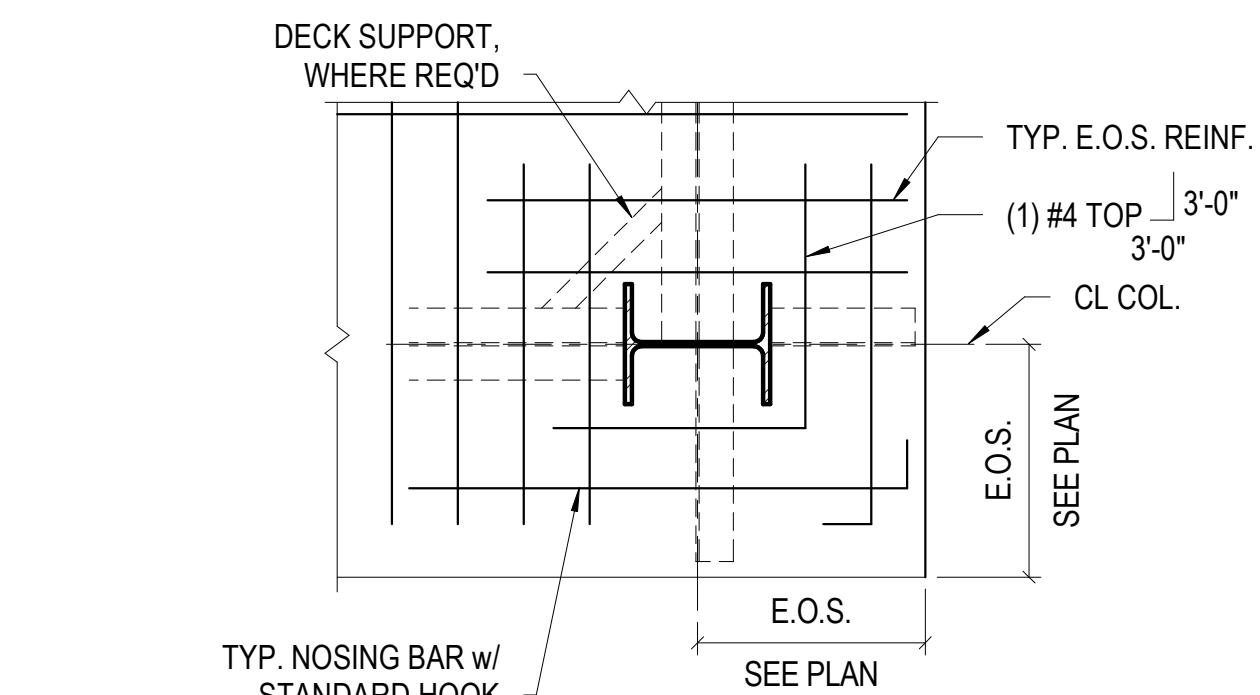
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DESIGNED BY: Designer

SHEET TITLE:
**TYPICAL STEEL
DETAILS**

SHEET NUMBER:

S009

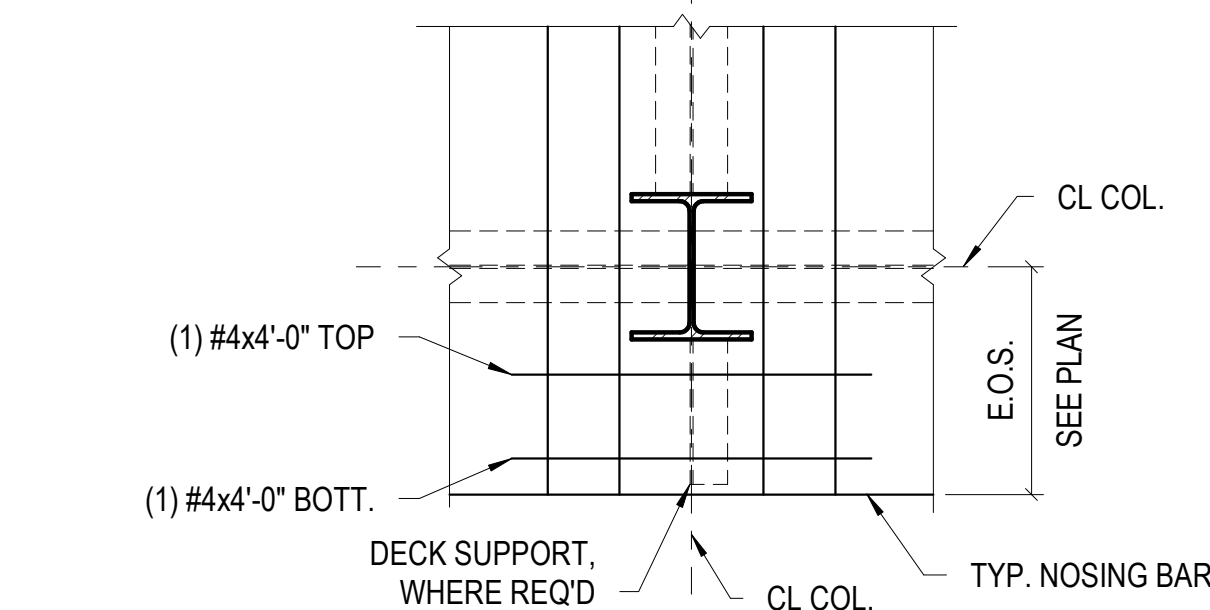
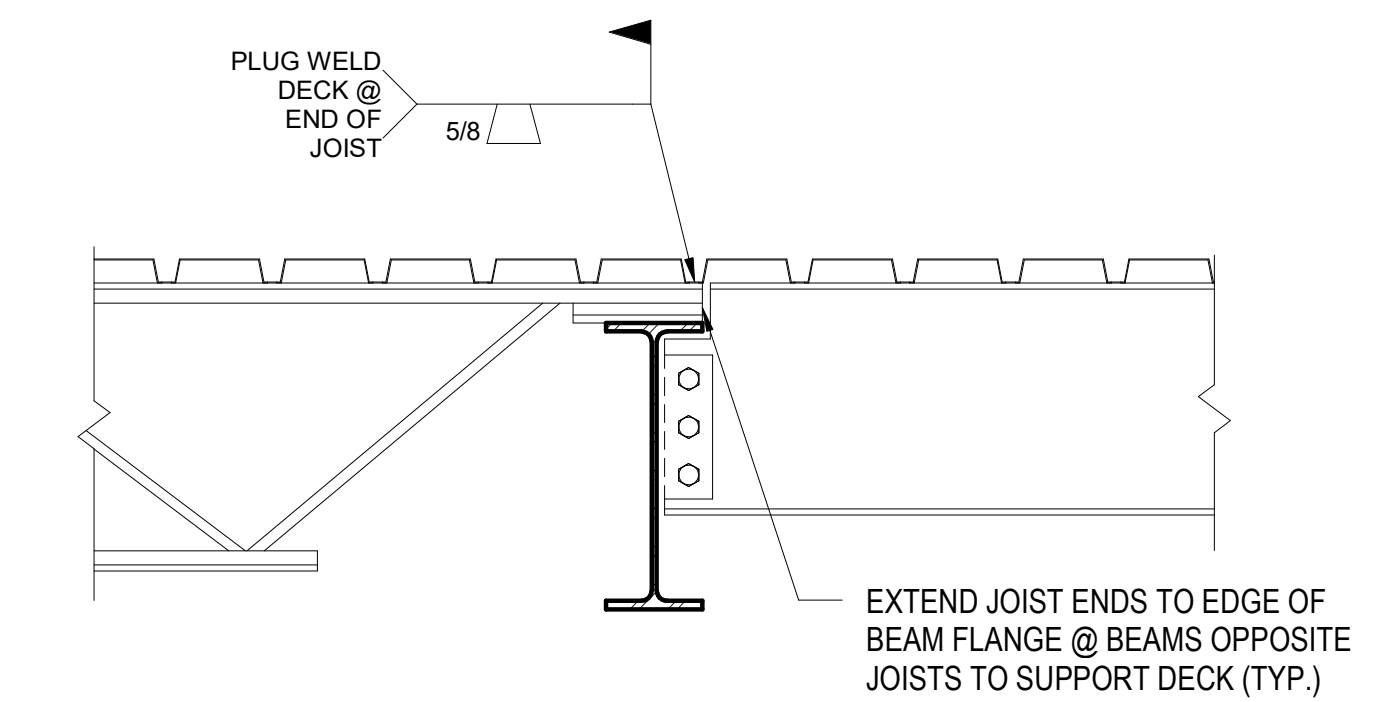
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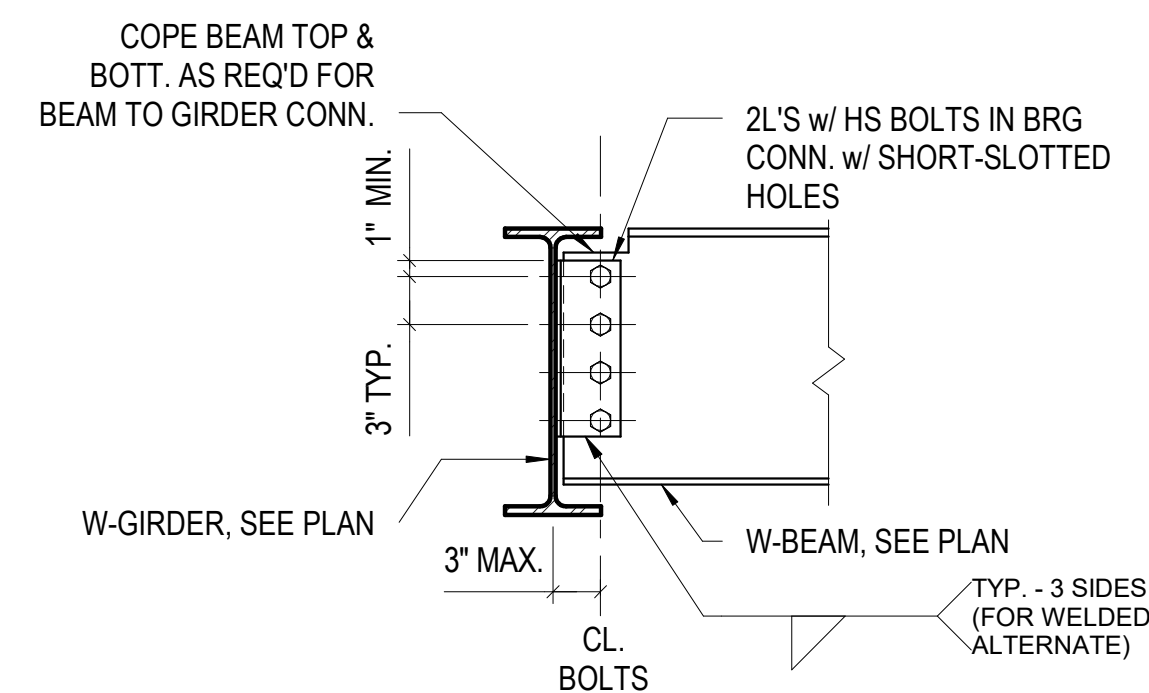
TYPICAL JOIST BEARING ON STEEL BEAM AT ROOF

- NOTES:
1. OFFSET JOISTS IF BEAM FLANGE WIDTH WILL NOT PERMIT END TO END BEARING ARRANGEMENT SHOWN.
 2. 1" OF 1/8" FILLET WELD EACH SIDE OF SEAT FOR K-SERIES.
 3. (1) 1/2" Ø HIGH STRENGTH BOLT EACH SIDE OF SEAT FOR K-SERIES.

TYPICAL BEAM & JOIST TO GIRDER FRAMING

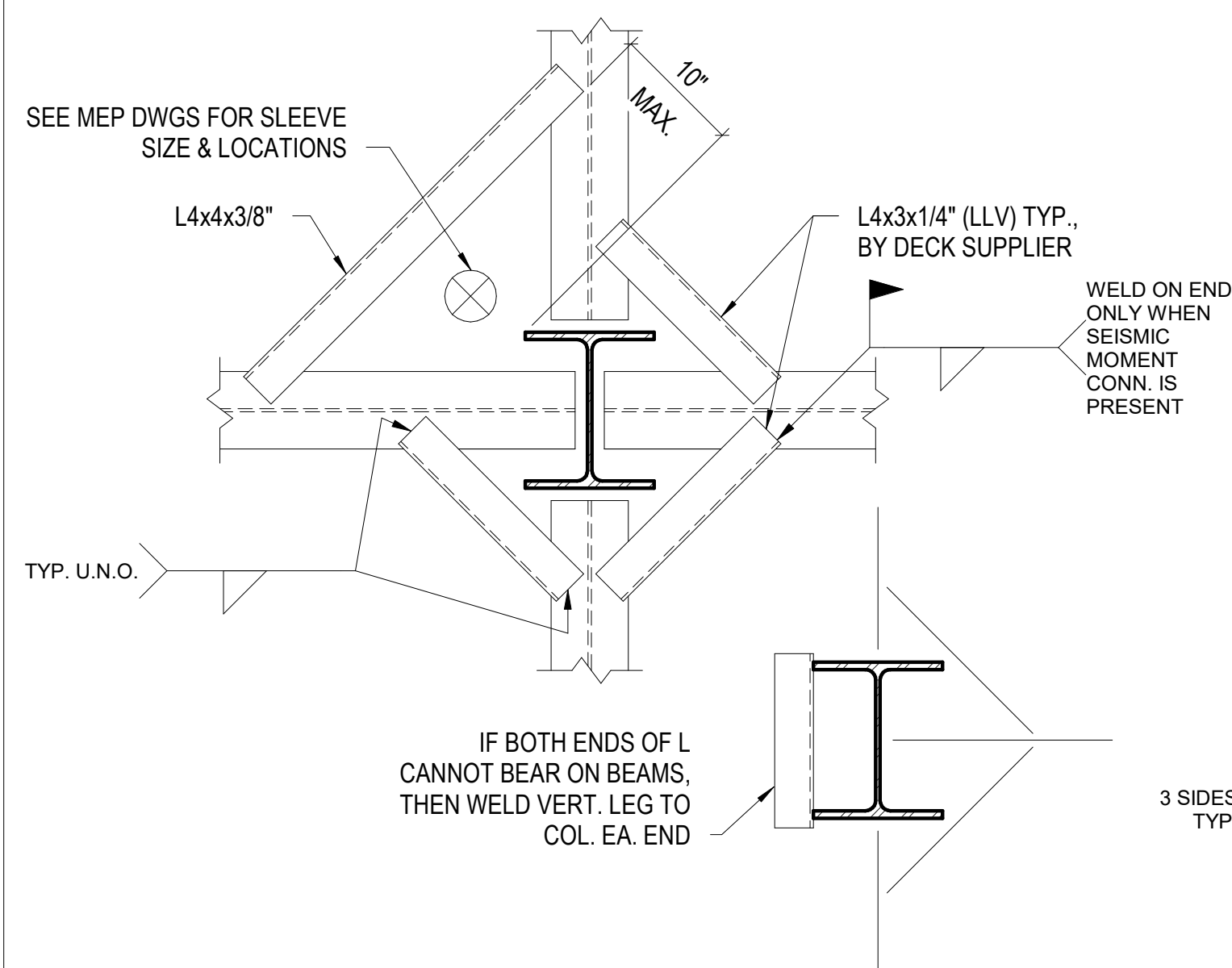


TYPICAL SLAB REINF AT PERIMETER COLUMNS



TYPICAL BEAM SHEAR CONNECTION

- NOTES:
1. BEAM WEB TO BE FILLED WITH MAXIMUM NUMBER OF BOLTS ALLOWED BASED ON DIAMETER AND SPACING PER AISC.
 2. CONNECTIONS TO BE DESIGNED FOR REACTIONS SHOWN ON PLANS.

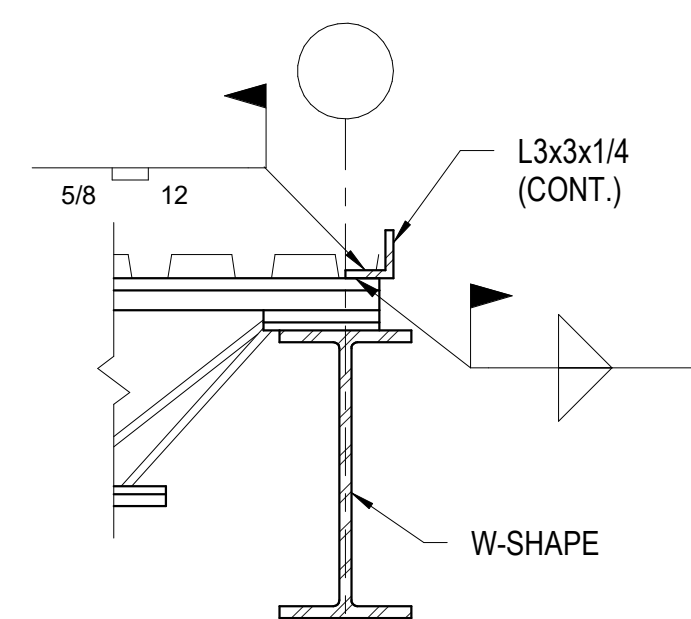


TYPICAL DECK SUPPORT AT COLUMN

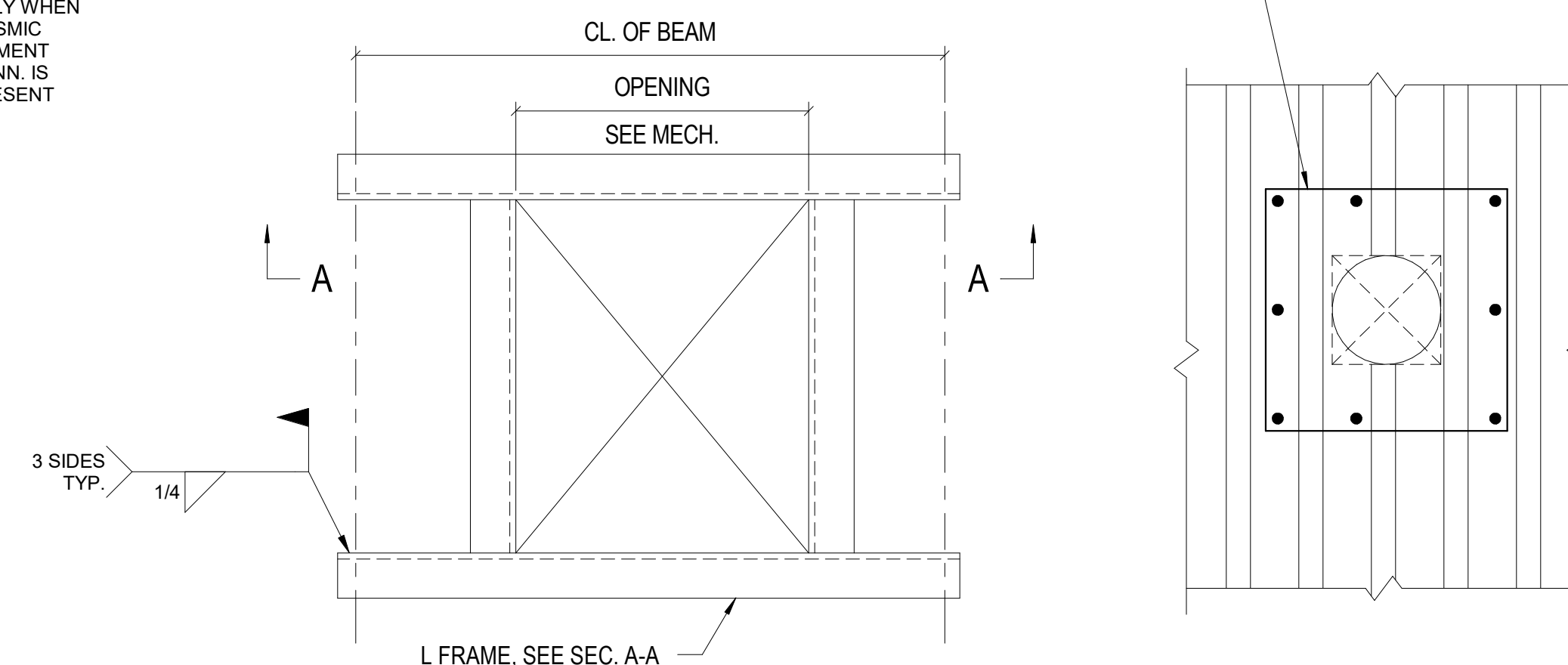
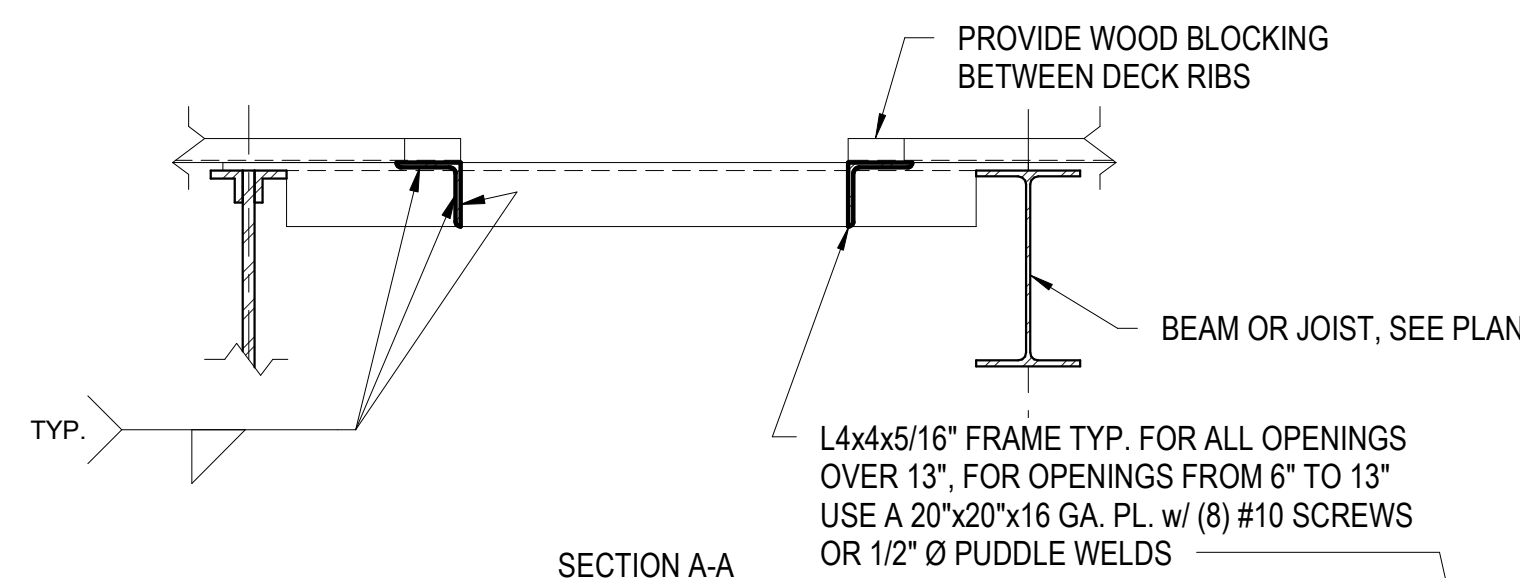
- NOTE:
1. INTERIOR COLUMN SHOWN. EXTERIOR COLUMN CONDITION SIMILAR. PROVIDE SHEET METAL PAN AROUND COL. WHERE DECK WILL NOT FIT. WELD PAN TO COLUMN.

TYPICAL JOIST REINFORCEMENT AT CONCENTRATED LOADS

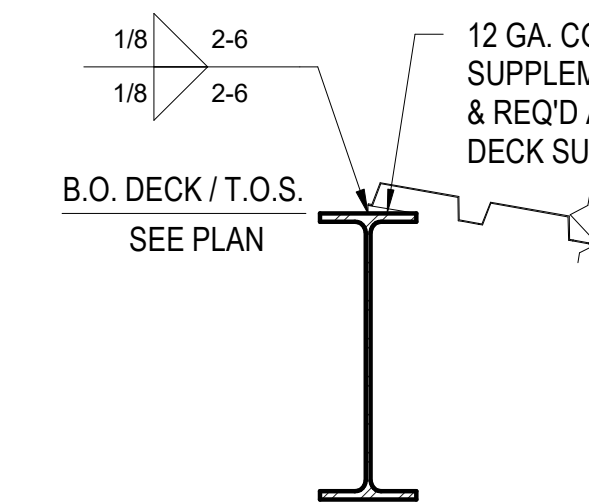
- NOTES:
1. JOIST REINFORCEMENT NOT REQUIRED FOR ANY SINGLE CONCENTRIC CONCENTRATED LOAD OF 100 LBS OR LESS PER PANEL.
 2. CONCENTRATED LOAD GREATER THAN 100 LBS NOT APPLIED AT JOIST PANEL POINT. PROVIDE AN ADDITIONAL L1 1/4x1 1/4x3/16" WEB MEMBER EACH SIDE OF JOIST. CONCENTRATED LOAD NOT EXCEEDING 200 LBS APPLIED AT JOIST PANEL POINT. NO ADDITIONAL WEB MEMBERS REQUIRED.
 3. NO CONCENTRATED LOADS GREATER THAN 200 LBS SHALL BE APPLIED TO JOISTS UNLESS SPECIFICALLY INDICATED ON STRUCTURAL DRAWINGS.
 5. JOIST MANUFACTURER SHALL REVIEW APPLIED LOADS.



ROOF DECK ENCLOSURE DETAIL AT JOIST

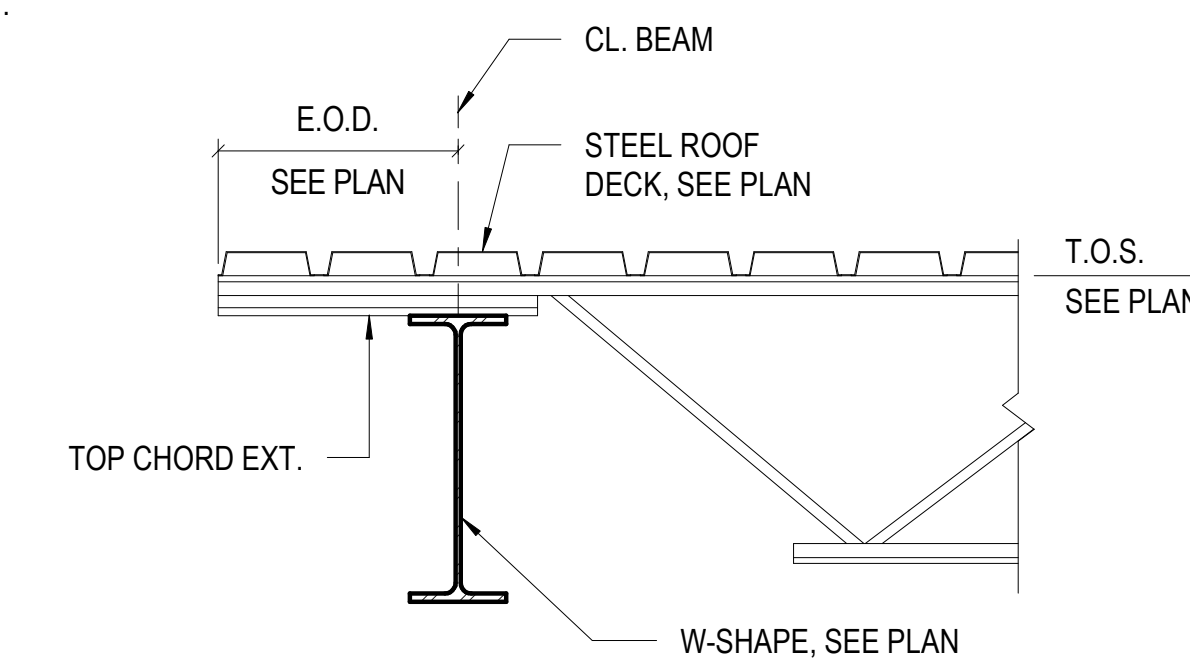


TYPICAL ROOF OPENING DETAIL

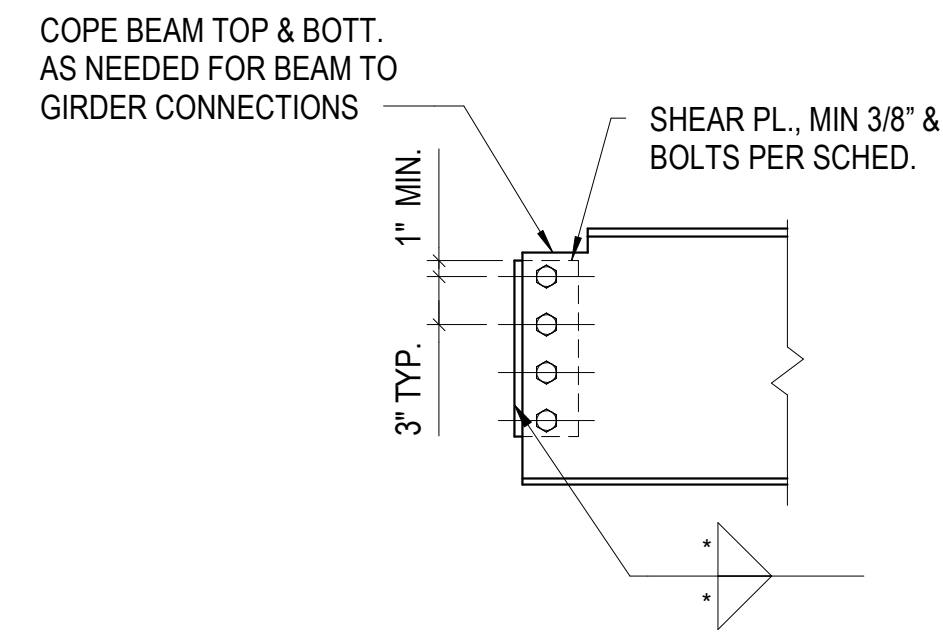


TYPICAL SLOPED DECK RIDGE PERIMETER SUPPORT

NOTE:
PERIMETER BENT PLATE AND CLADDING SUPPORT NOT SHOWN FOR CLARITY.



TYPICAL JOIST JOIST SUPPORTED EDGE OF DECK DETAIL

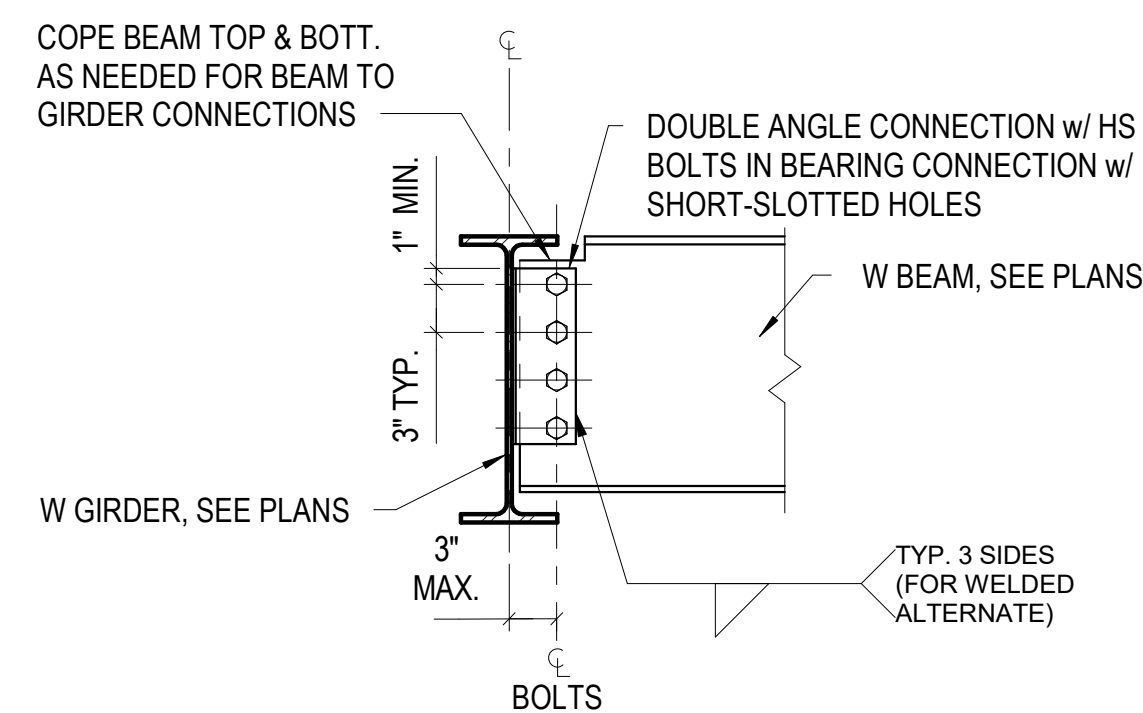


CONNECTION SCHEDULE		
BEAM SIZE	MIN NO. OF ROWS OF 3/4" Ø A325N BOLTS (U.N.O.)	REACTION (KIPS)
W8/W10	2	10
W12/W14	3	15
W16	4	45
W18	5	60
W21	6	70
W24	7	80
W27	8	90
W30	9	100

* FILLET WELD SIZE AS REQ'D BY DESIGN, 1/4" MIN.

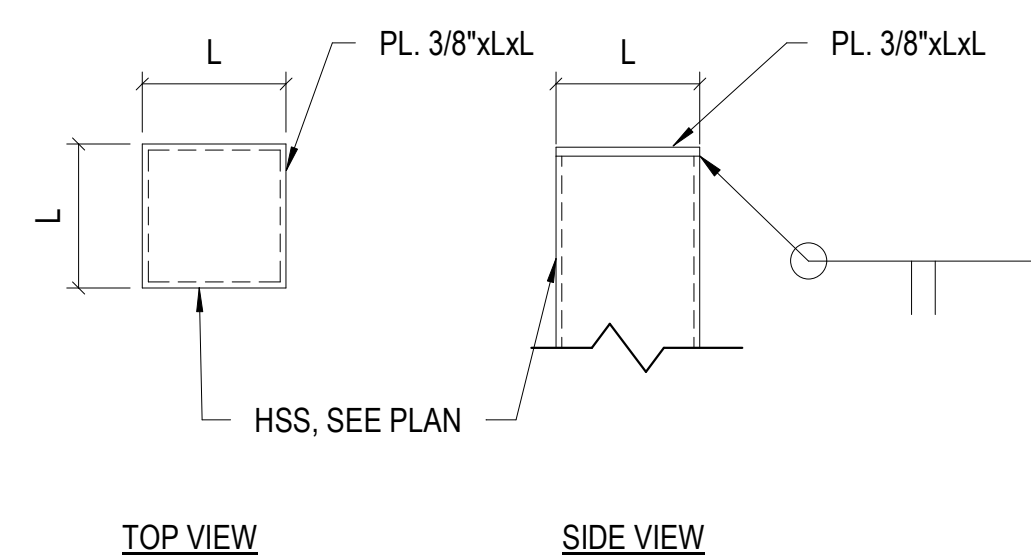
TYPICAL BEAM SHEAR CONNECTION SCHEDULE

- NOTES:
1. BEAM WEB TO BE FILLED WITH MAXIMUM NUMBER OF BOLTS ALLOWED BASED ON DIAMETER AND SPACING PER AISC.
 2. CONNECTIONS TO BE DESIGNED FOR REACTIONS SHOWN IN TABLE.
 3. USE LONG SLOTTED HOLES IN SHEAR PLATE FOR BEAM CONNECTION TO EMBED PLATES.
 4. DOUBLE ANGLE CONNECTIONS MAY BE USED AT DETAILER'S OPTION.

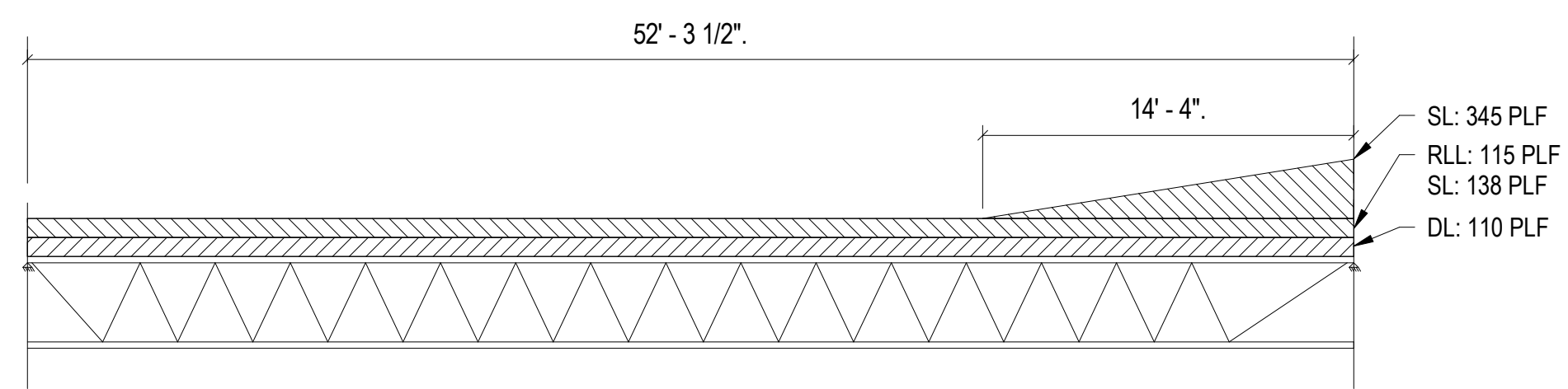


TYPICAL BEAM SHEAR CONNECTION DETAIL

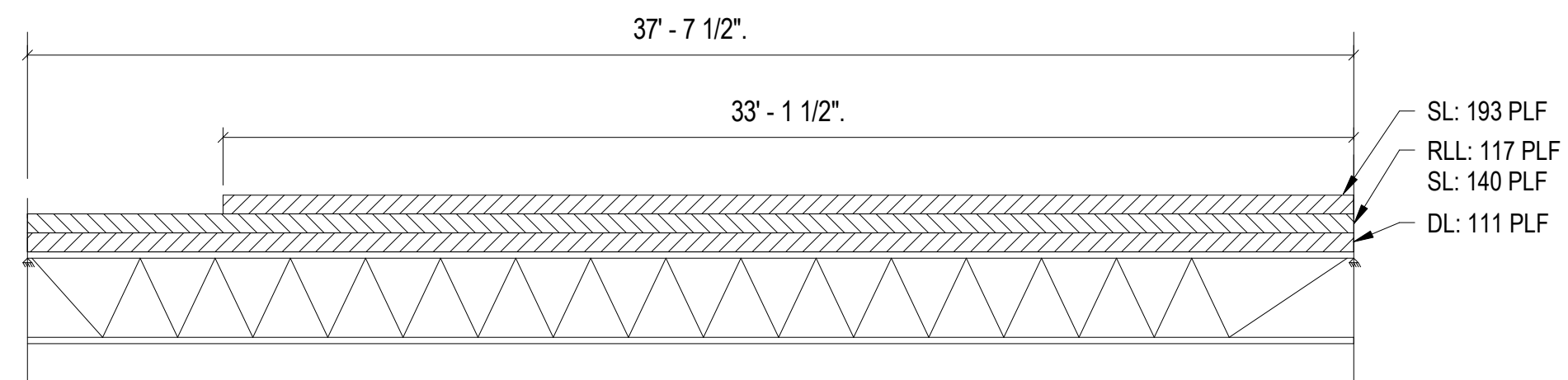
- NOTES:
1. BEAM WEB TO BE FILLED WITH MAXIMUM NUMBER OF BOLTS ALLOWED BASED ON DIAMETER AND SPACING PER AISC.
 2. CONNECTIONS TO BE DESIGNED FOR REACTIONS SHOWN ON PLANS.



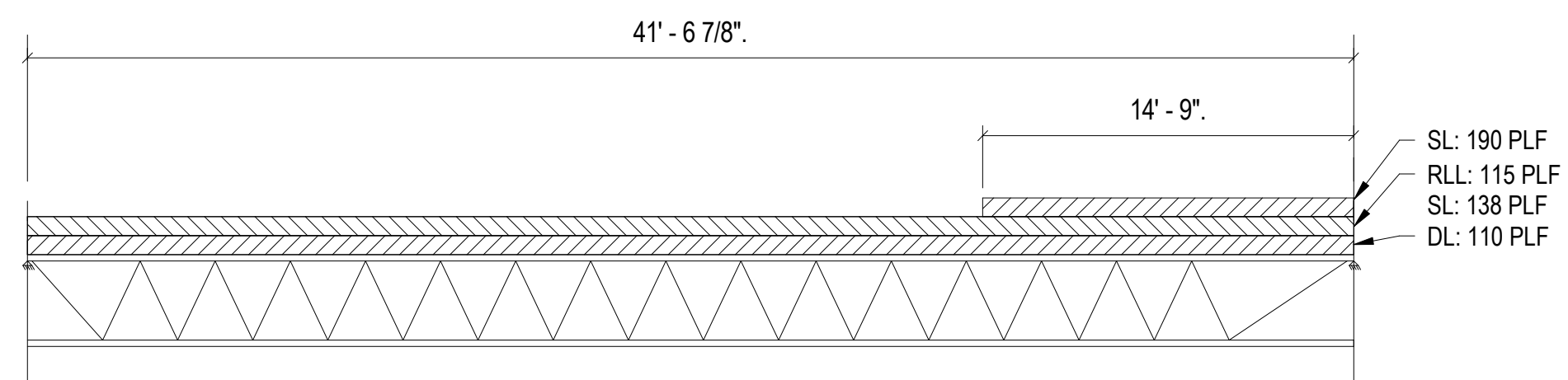
COL. CAP PLATE DETAIL



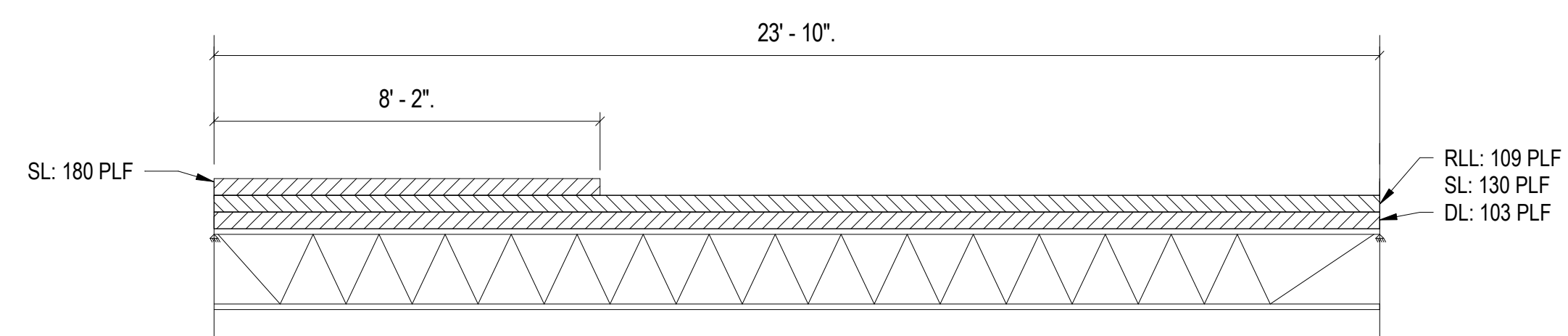
TYPICAL JOIST 32LH13SP LOADING DIAGRAM



TYPICAL JOIST 30K9SP LOADING DIAGRAM



TYPICAL JOIST 30K10SP LOADING DIAGRAM



TYPICAL JOIST 20K3SP LOADING DIAGRAM

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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
TYPICAL STEEL
DETAILS

SHEET NUMBER:

S010

79 OF 272 SHEETS
05/03/2024



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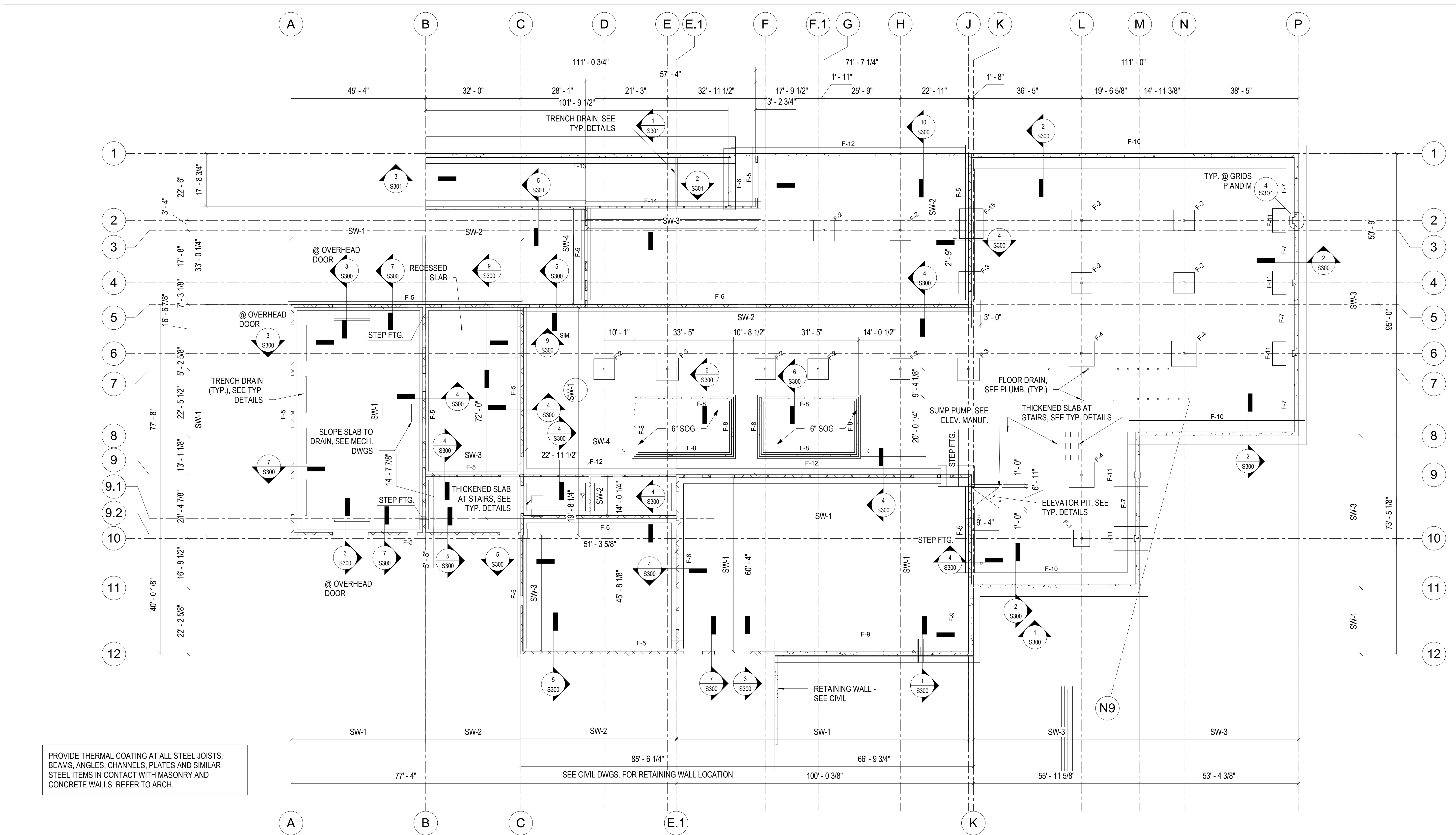
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DRAWN BY: JYI
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DESIGNED BY:

SHEET TITLE:
FOUNDATION PLAN

SHEET NUMBER:

S100

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05/03/2024



PROVIDE THERMAL COATING AT ALL STEEL JOISTS, BEAMS, ANGLES, CHANNELS, PLATES AND SIMILAR STEEL ITEMS IN CONTACT WITH MASONRY AND CONCRETE WALLS. REFER TO ARCH.

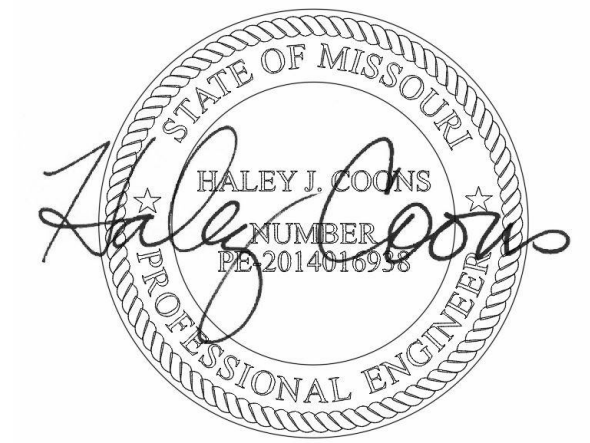
FOOTING SCHEDULE					
MARK	WIDTH	LENGTH	FTG THICKNESS	TOP & BOTT.	COMMENTS
F-1	5'-6"	5'-6"	1'-3"	#6 @ 12" O.C. EA. WAY	
F-2	7'-0"	7'-0"	1'-3"	#6 @ 12" O.C. EA. WAY	
F-3	7'-6"	7'-6"	1'-3"	#6 @ 12" O.C. EA. WAY	
F-4	8'-6"	8'-6"	1'-6"	#6 @ 10" O.C. EA. WAY	
F-5	3'-0"	CONT.	1'-0"	#6 @ 12" O.C. EA. WAY	
F-6	4'-0"	CONT.	1'-0"	#6 @ 12" O.C. EA. WAY	
F-7	7'-0"	CONT.	1'-8"	#6 @ 12" O.C. EA. WAY	SEE SECTION
F-8	2'-0"	CONT.	1'-0"	#6 @ 12" O.C. EA. WAY	
F-9	8'-0"	CONT.	1'-8"	#6 @ 12" O.C. EA. WAY	
F-10	8'-0"	CONT.	1'-8"	#6 @ 12" O.C. EA. WAY	
F-11	11'-6"	8'-0"	1'-8"	#7 @ 8" O.C. EA. WAY	SPLICE LONGITUDINAL REINF. WITH F-7
F-12	5'-0"	CONT.	1'-4"	#6 @ 12" O.C. EA. WAY	SEE SECTION
F-13	9'-0"	CONT.	1'-8"	#6 @ 12" O.C. EA. WAY	
F-14	6'-0"	CONT.	1'-2"	#6 @ 12" O.C. EA. WAY	SEE SECTION
F-15	8'-0"	10'-0"	1'-4"	#6 @ 12" O.C. EA. WAY	

1 FOUNDATION PLAN
SCALE: 1/16" = 1'-0"

- PLAN NOTES:
- SEE SHEETS S001-S-009 FOR GENERAL NOTES AND TYPICAL DETAILS.
 - TOP OF SLAB ELEVATION = 0'-0". REFER TO CIVIL DRAWINGS FOR ACTUAL FINISH GRADES
 - INTERIOR SLAB-ON-GRADE CONSTRUCTION:
 - A. CONCRETE THICKNESS: 4"
 - B. REINFORCEMENT: 6x6-W2.9xW2.9 W.W.F.
 - C. VAPOR BARRIER RETARDER THICKNESS 15 MIL.
 - D. SUB-BASE: PER GEOTECHNICAL REPORT
 - INTERIOR SLAB-ON-GRADE CONSTRUCTION AT VAULTS:
 - A. CONCRETE THICKNESS: 6"
 - B. REINFORCEMENT: 6x6-W4.0xW4.0 W.W.F.
 - C. VAPOR BARRIER RETARDER THICKNESS 15 MIL.
 - D. SUB-BASE: PER GEOTECHNICAL REPORT
 - TOP OF INTERIOR COLUMN AND WALL FOOTINGS = -0'-10" U.N.O.
 - REFER TO ARCHITECTURAL DRAWINGS FOR SLAB FINISHES.
 - MASONRY WALL DOWELS TO MATCH SIZE AND SPACING OF VERTICAL WALL REINFORCING.
 - SEE SHEAR WALL SCHEDULE ON THIS SHEET AND TYPICAL DETAILS ON S007 FOR CMU WALL REINFORCING.

CMU SHEAR WALL SCHEDULE				
SHEAR WALL NO.	CMU THICKNESS	NO. OF LAYERS OF REINFORCEMENT	REINFORCEMENT	SPACING
SW-1	12"	2	#6	8"
SW-2	12"	1	#6	24"
SW-3	8"	1	#6	24"
SW-4	8"	1	#6	16"

REFER TO DRAWINGS S700 - S702 FOR ADDITIONAL REINFORCING



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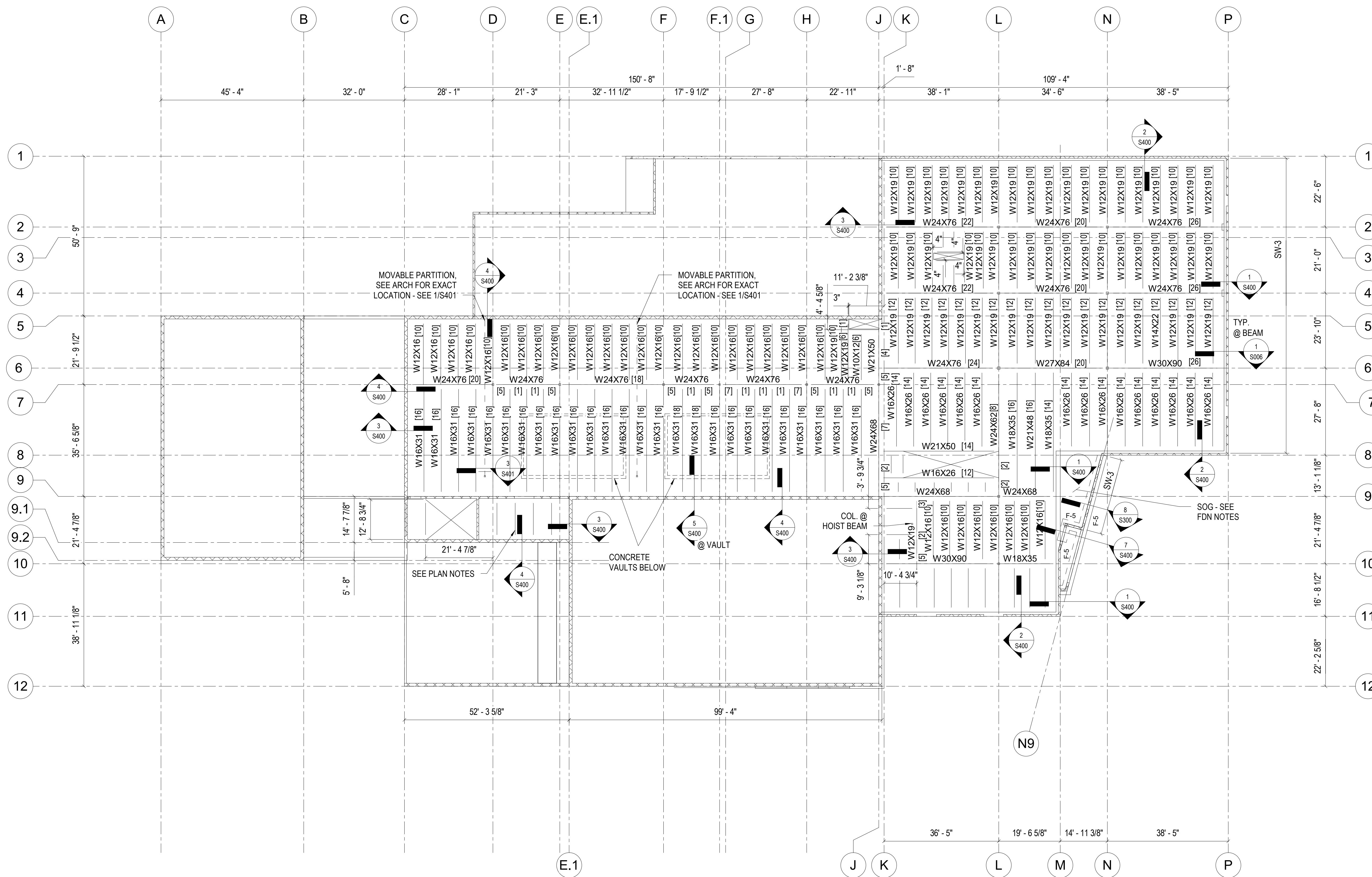
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SHEET TITLE:
**FIRST FLOOR
FRAMING PLAN**

SHEET NUMBER:

S200

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05/03/2024



1 FIRST FLOOR FRAMING PLAN
S200 SCALE: 1/16" = 1'-0"

- PLAN NOTES:
- 1. T.O.SLAB ELEVATION = 14'-0".
 - 2. FLOOR SLAB SHALL BE 2" X 20 GA. COMPOSITE METAL DECK w/ 3" NW CONC. SLAB w/ 6X6 WWF (5" TOTAL THICKNESS). SEE S008 FOR DECK ATTACHMENTS.
 - 3. ALL FLOOR BEAMS ARE SPACED @ 6' O.C. MAX. U.N.O.
 - 4. WHERE BEAM SIZE NOT SHOWN, BEAM SHALL BE W10X12 w/ 8 SHEAR STUDS EQUALLY SPACED ON SPAN.
 - 5. PERIMETER WALLS ARE 12" & 8" REINFORCED MASONRY BLOCK WALL, FULLY GROUTED.
 - 6. SEE LINTEL SCHEDULE ON SHEET S007 FOR LINTEL SIZES.
 - 7. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB FINISHES.

PROVIDE THERMAL COATING AT ALL STEEL JOISTS, BEAMS, ANGLES, CHANNELS, PLATES AND SIMILAR STEEL ITEMS IN CONTACT WITH MASONRY AND CONCRETE WALLS. REFER TO ARCH.



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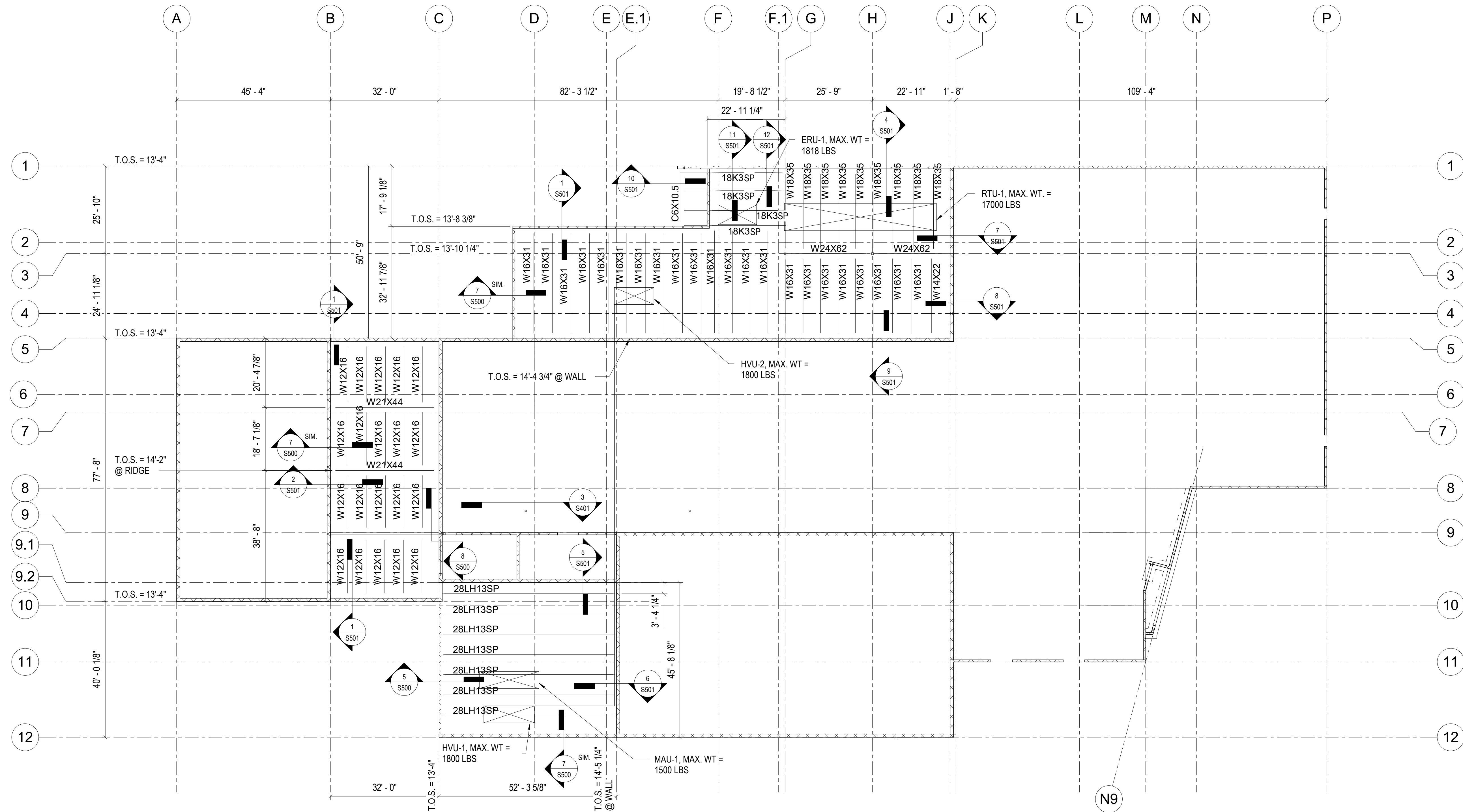
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SHEET TITLE:
LOW ROOF
FRAMING PLAN

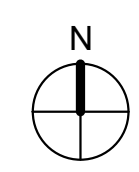
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S201

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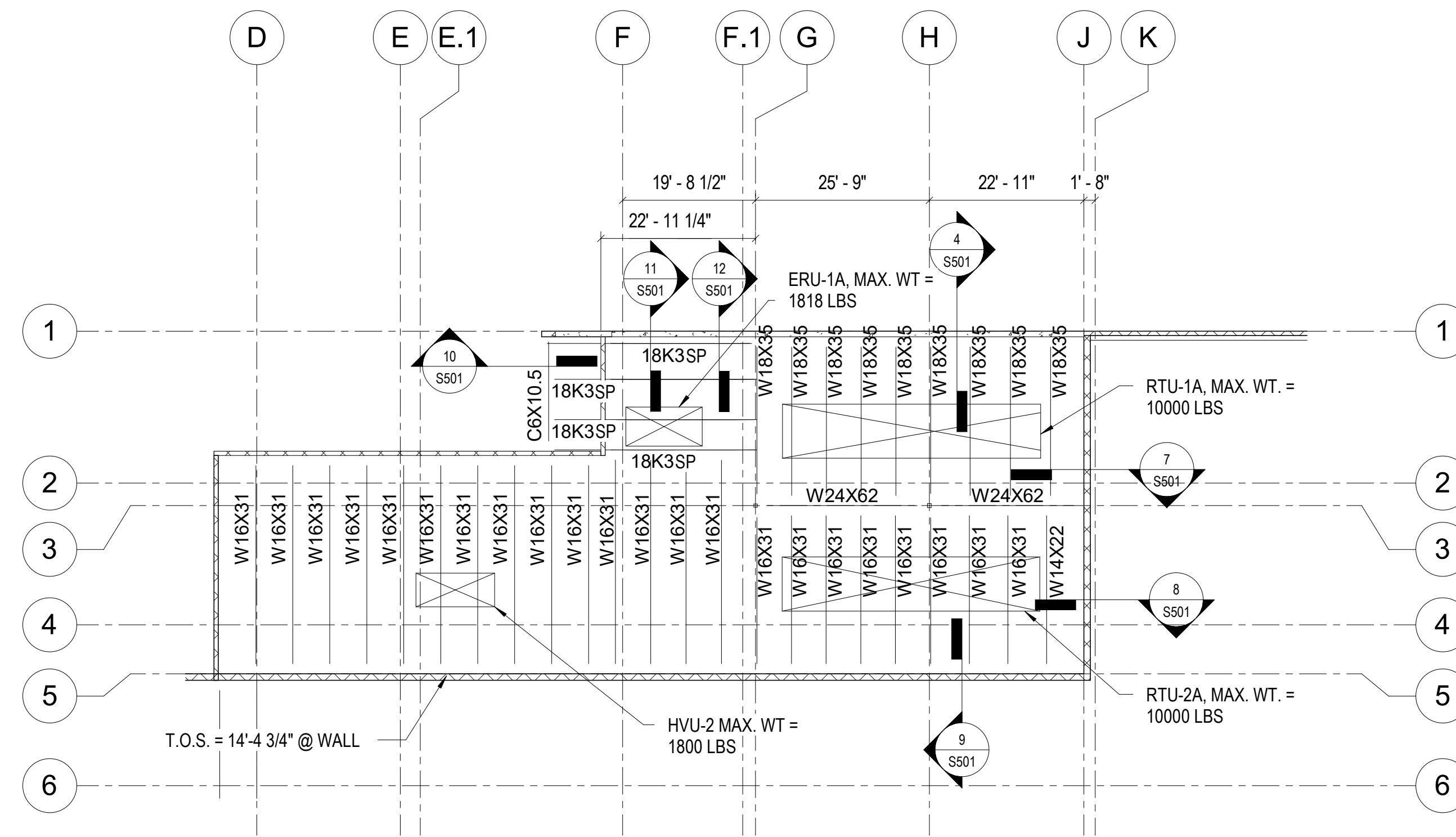
1 LOWER ROOF FRAMING PLAN
SCALE: 1/16" = 1'-0"



PLAN NOTES:

1. JOIST DESIGNATION "SP" INDICATES JOISTS TO BE DELEGATED DESIGN PER JOIST LOADING DIAGRAMS ON S010.
2. REFER TO S202 FOR REMAINING NOTES.

PROVIDE THERMAL COATING AT ALL STEEL JOISTS, BEAMS, ANGLES, CHANNELS, PLATES AND SIMILAR STEEL ITEMS IN CONTACT WITH MASONRY AND CONCRETE WALLS. REFER TO ARCH.



1
S201-A ALTERNATE 2 - LOWER ROOF FRAMING PLAN
SCALE: 1/16" = 1'-0"

PROVIDE THERMAL COATING AT ALL STEEL JOISTS, BEAMS, ANGLES, CHANNELS, PLATES AND SIMILAR STEEL ITEMS IN CONTACT WITH MASONRY AND CONCRETE WALLS. REFER TO ARCH.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



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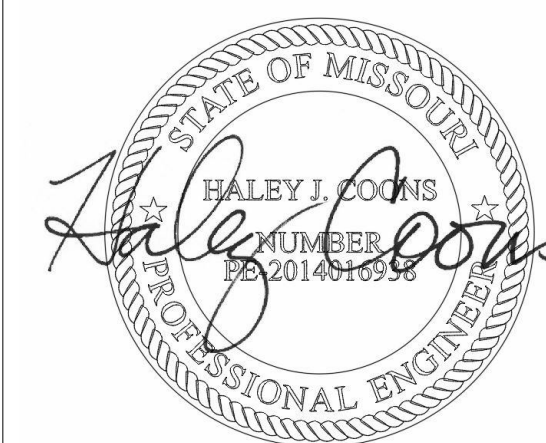
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ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
ALTERNATE 2 - LOW
ROOF FRAMING
PLAN

SHEET NUMBER:
S201-A

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05/03/2024



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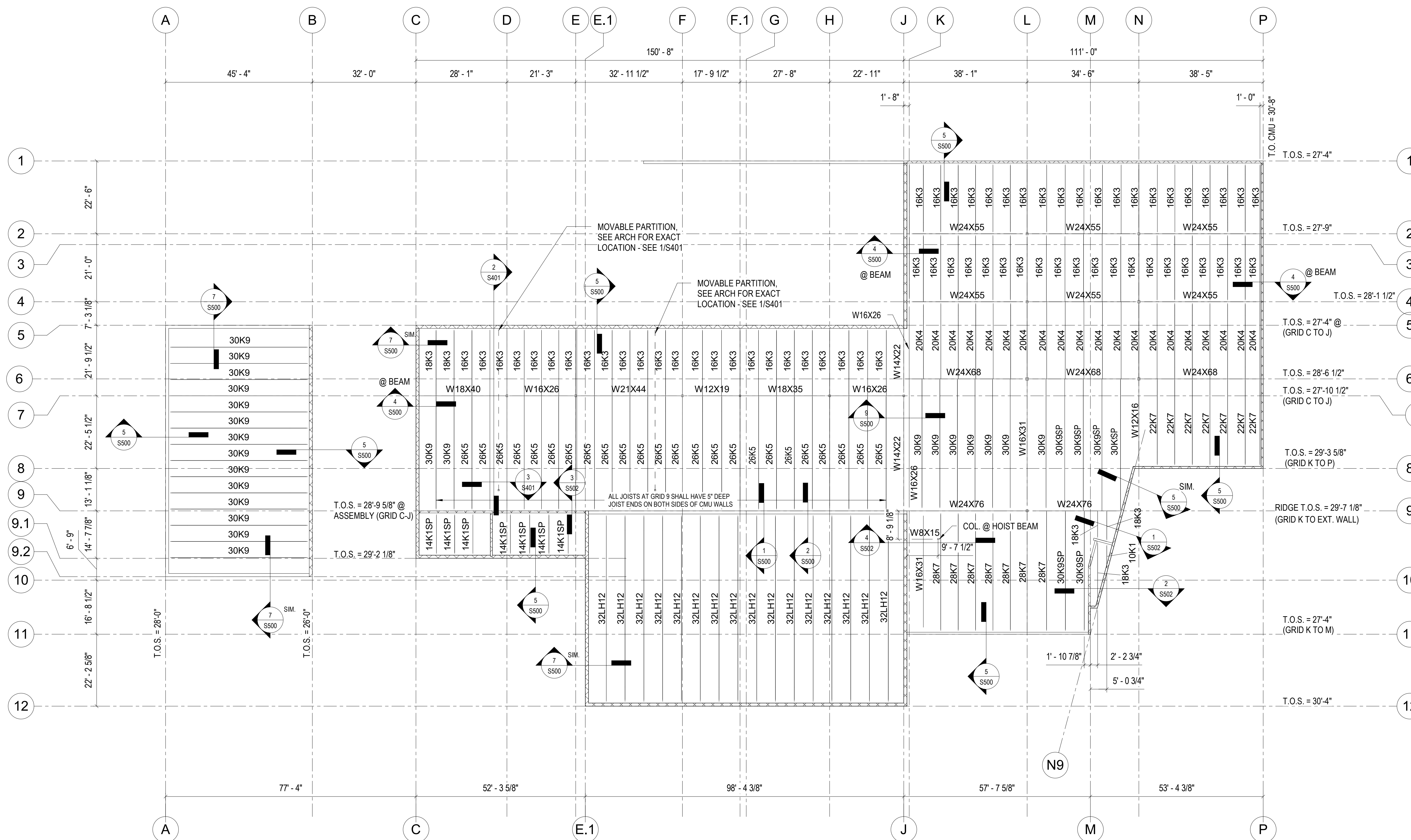
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DESIGNED BY: _____

SHEET TITLE:
**ROOF FRAMING
PLAN**

SHEET NUMBER:

S202

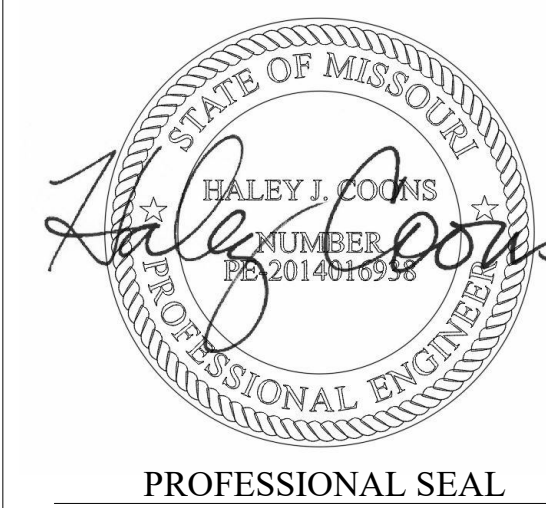
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1
S202 **ROOF FRAMING PLAN**
SCALE: 1/16" = 1'-0"

- PLAN NOTES:
- T.O.S. = VARIES, SEE PLAN.
 - T.O.S. IS GIVEN TO CENTER LINE OF COLUMN OR INSIDE FACE OF WALL.
 - ROOF DECK TO BE 1 1/2" TYPE B X 18 GA. METAL ROOF DECK. SEE S008 FOR DECK ATTACHMENTS.
 - SEE LINTEL SCHEDULE ON SHEET S007 FOR LINTEL SIZES.
 - ALL JOISTS AT COMMON WALL AT LINE 9 SHALL HAVE 5" DEEP ENDS.
 - STAGGER JOISTS ALONG LINE 9 TO ALLOW FOR BEARING PLATES.
 - JOIST DESIGNATION "SP" INDICATES JOISTS TO BE DELEGATED DESIGN PER JOIST LOADING DIAGRAMS ON S010.
 - JOISTS AND BEAMS SHALL BE SPACED EQUALLY BETWEEN COLUMN GRID LINES WITH MAXIMUM JOIST/BEAM SPACING OF 6'-0", U.N.O.

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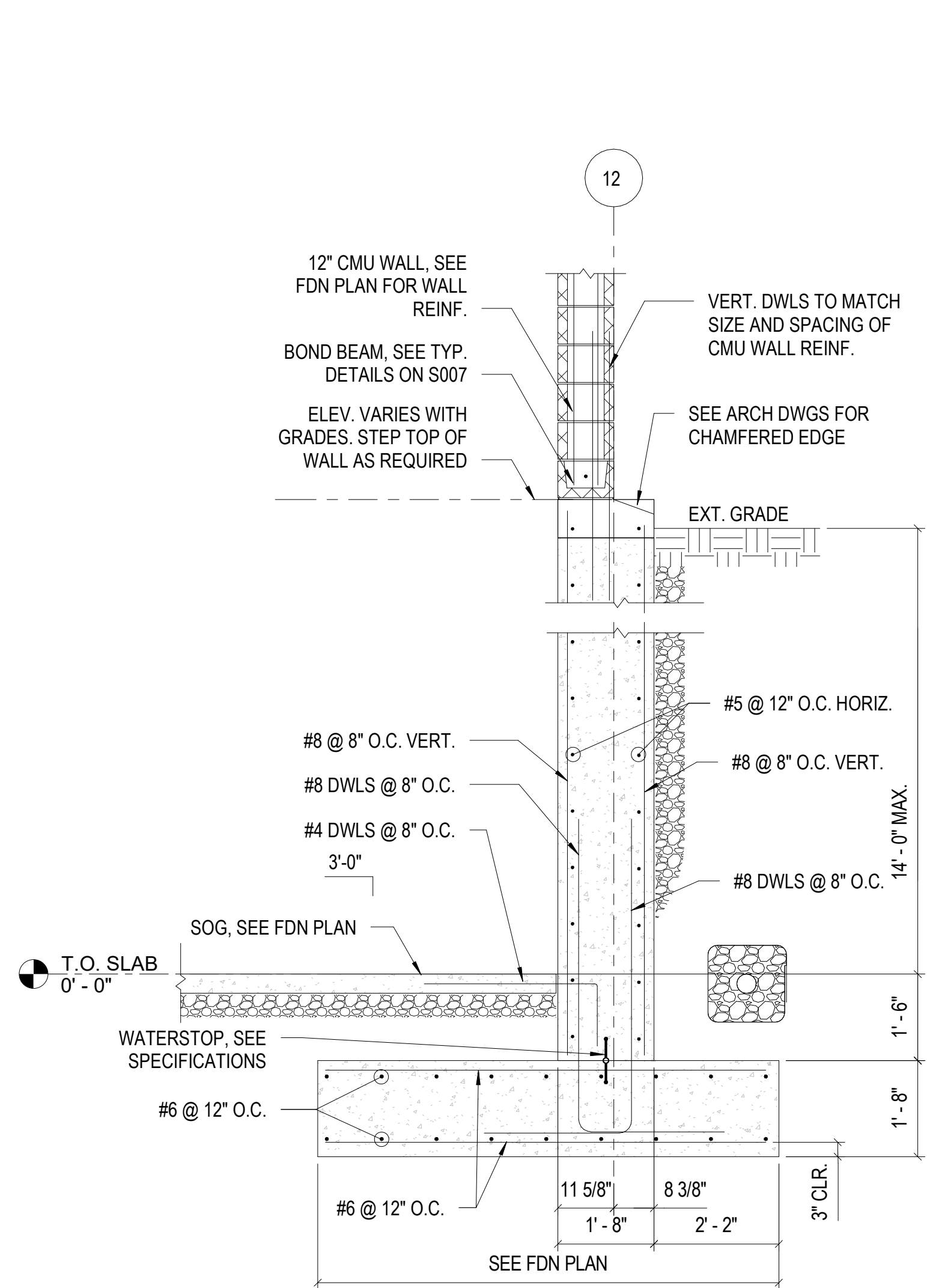
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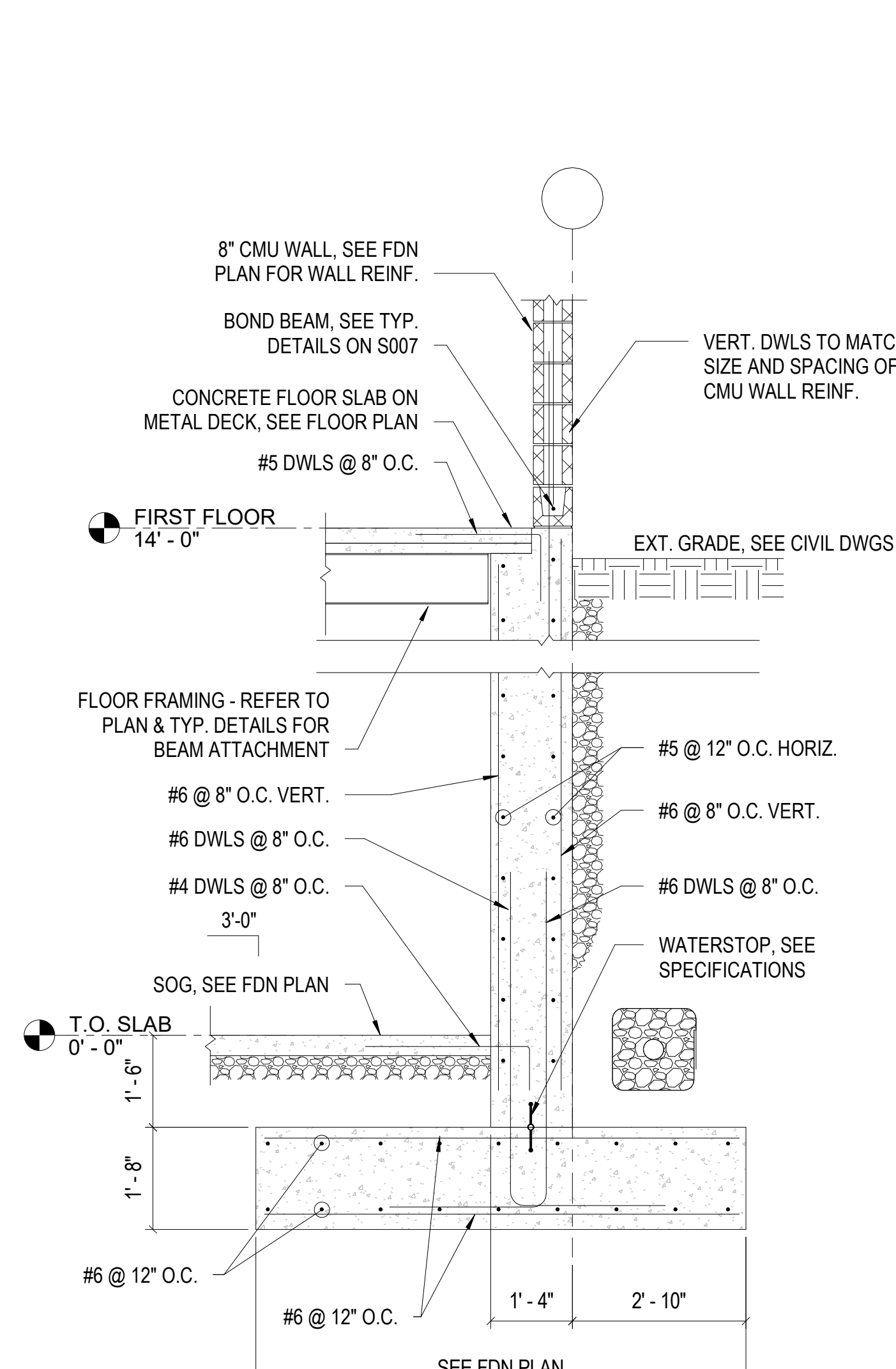
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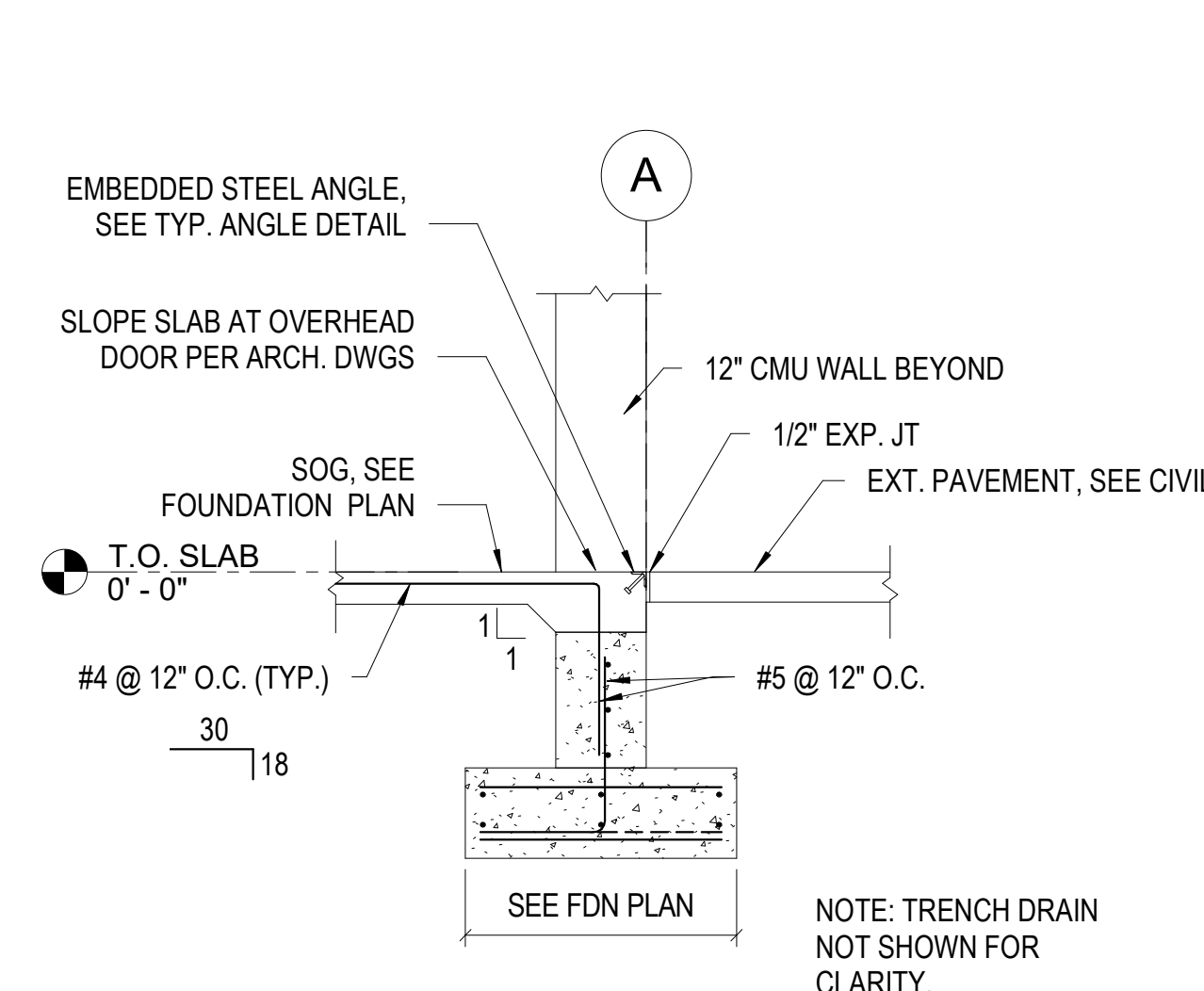
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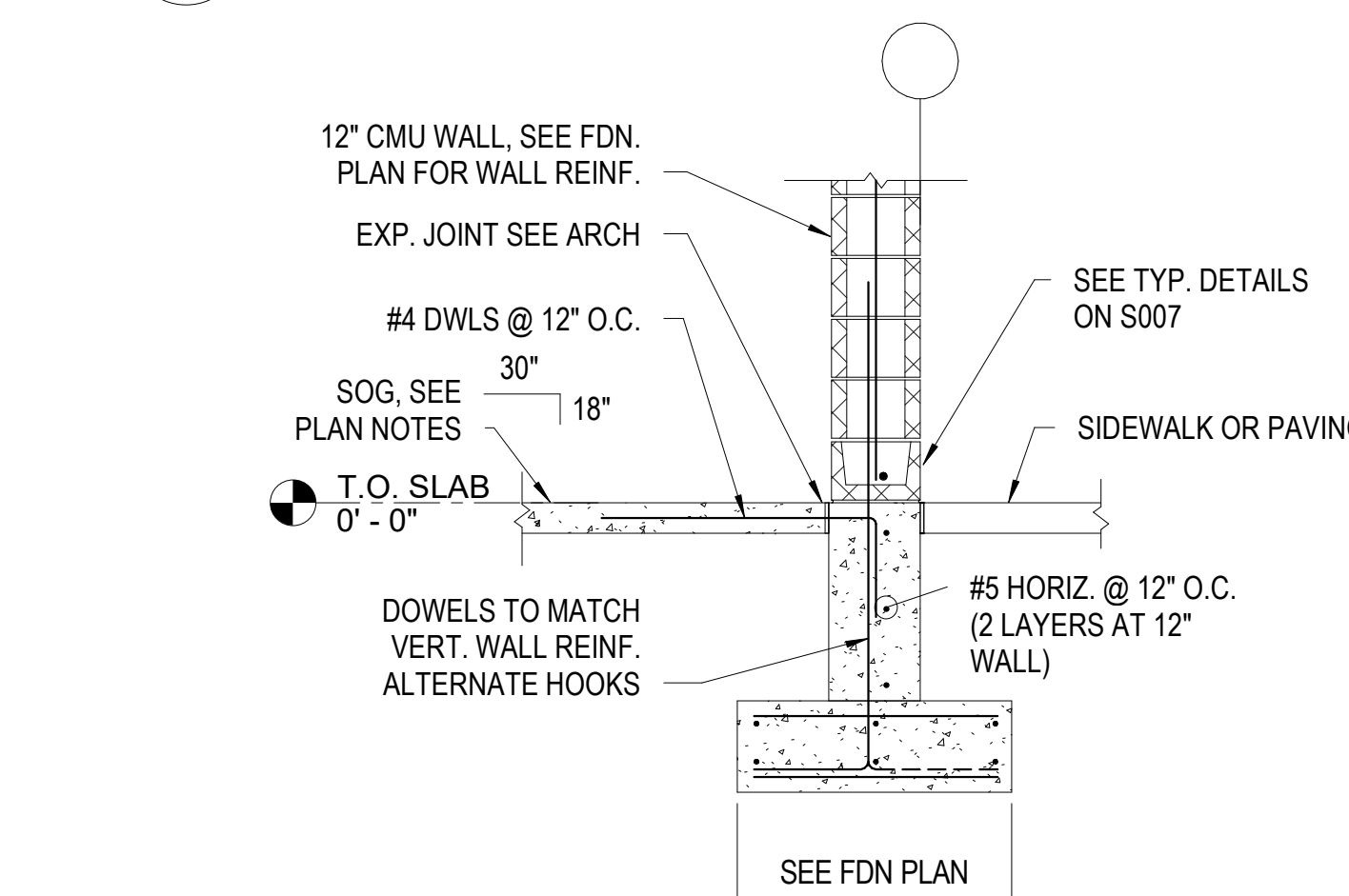
1 SECTION @ ASSEMBLY WALL
S300 SCALE: 1/2" = 1'-0"



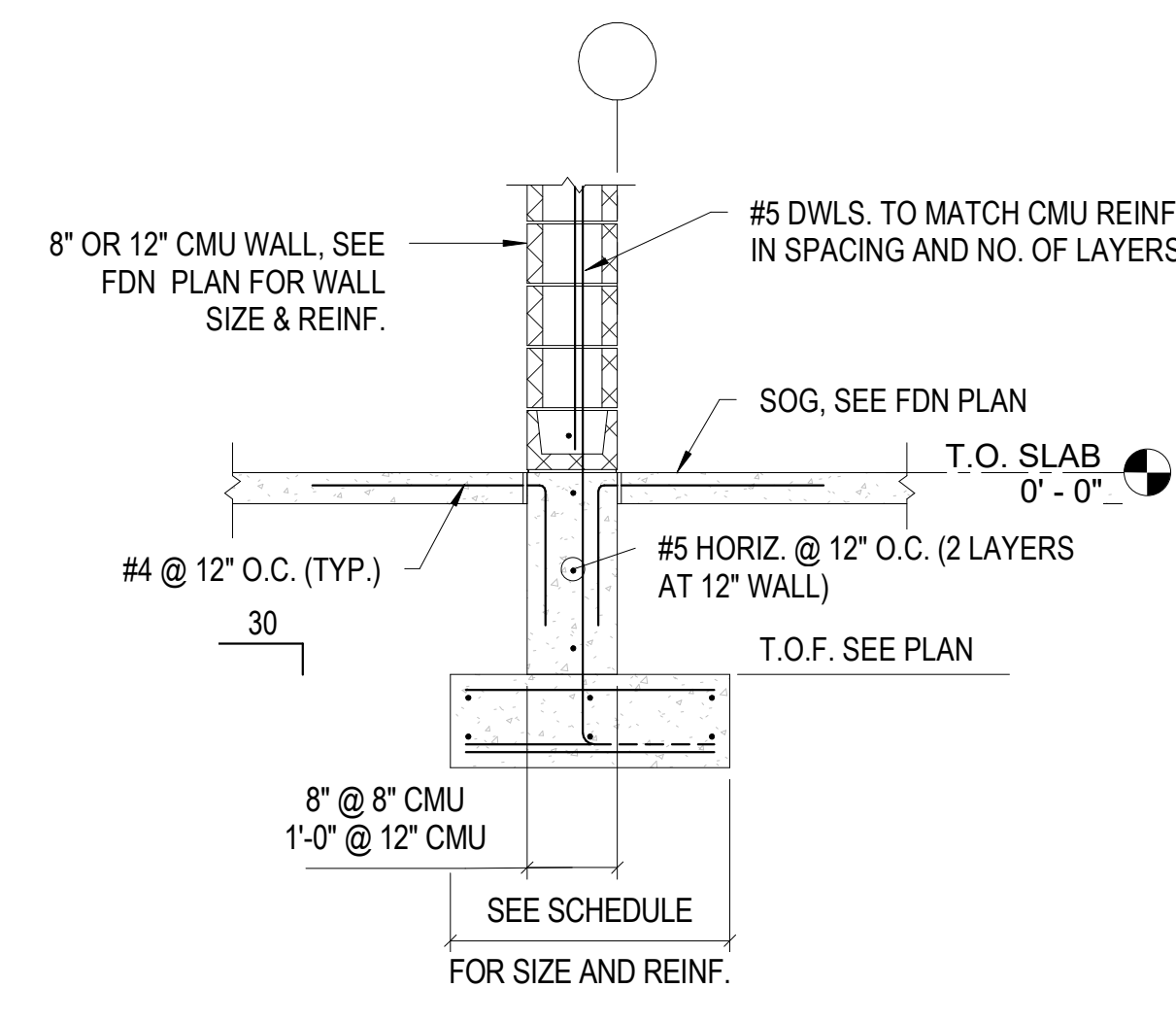
2 SECTION @ BASEMENT WALL
S300 SCALE: 1/2" = 1'-0"



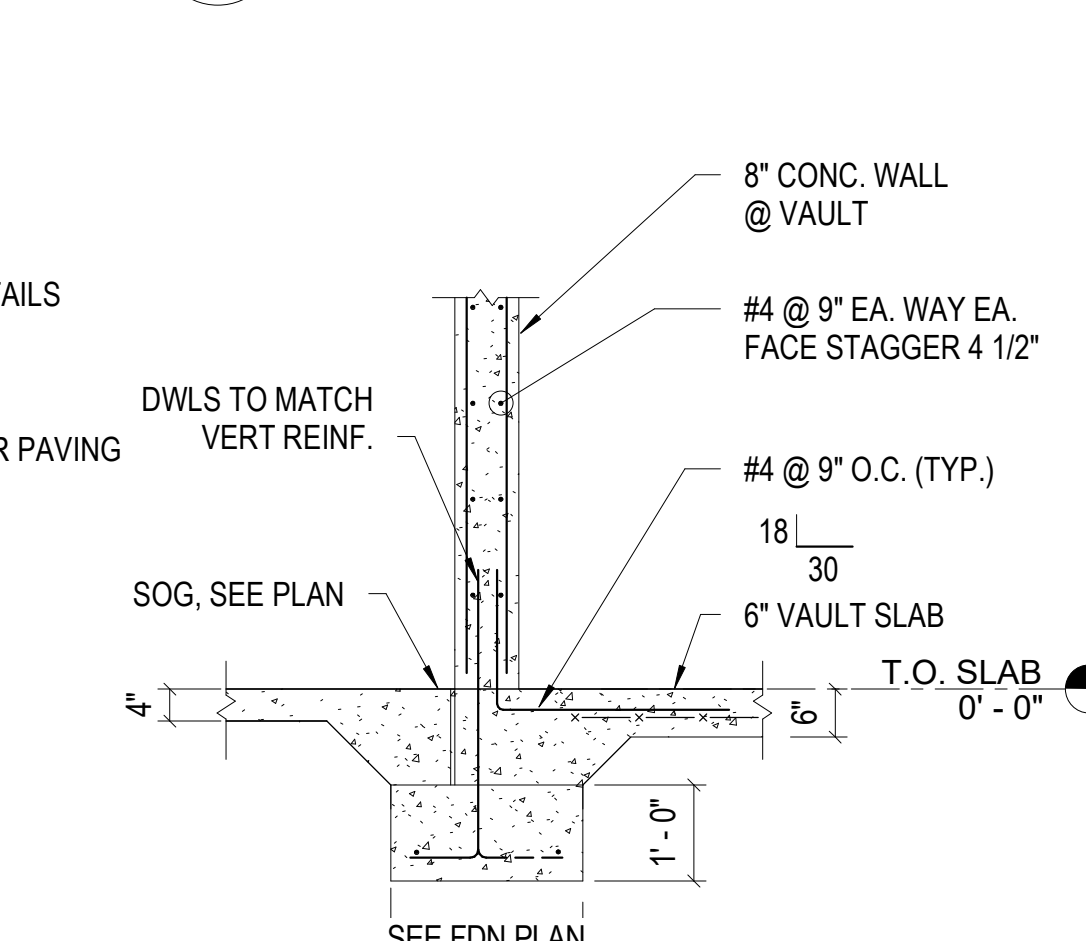
3 SECTION @ OVERHEAD DOOR
S300 SCALE: 1/2" = 1'-0"



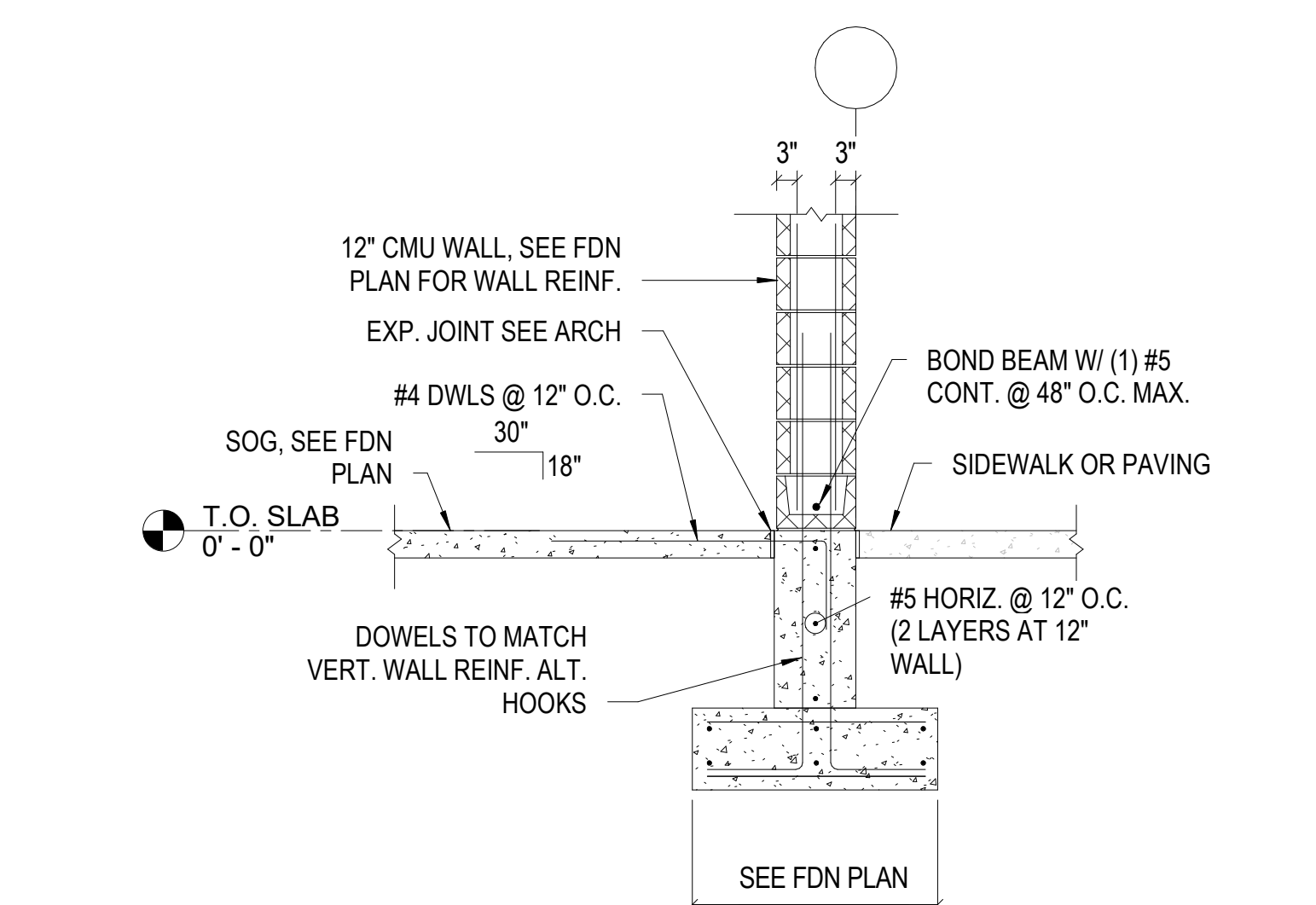
5 SECTION @ 12" EXTERIOR WALL
S300 SCALE: 1/2" = 1'-0"



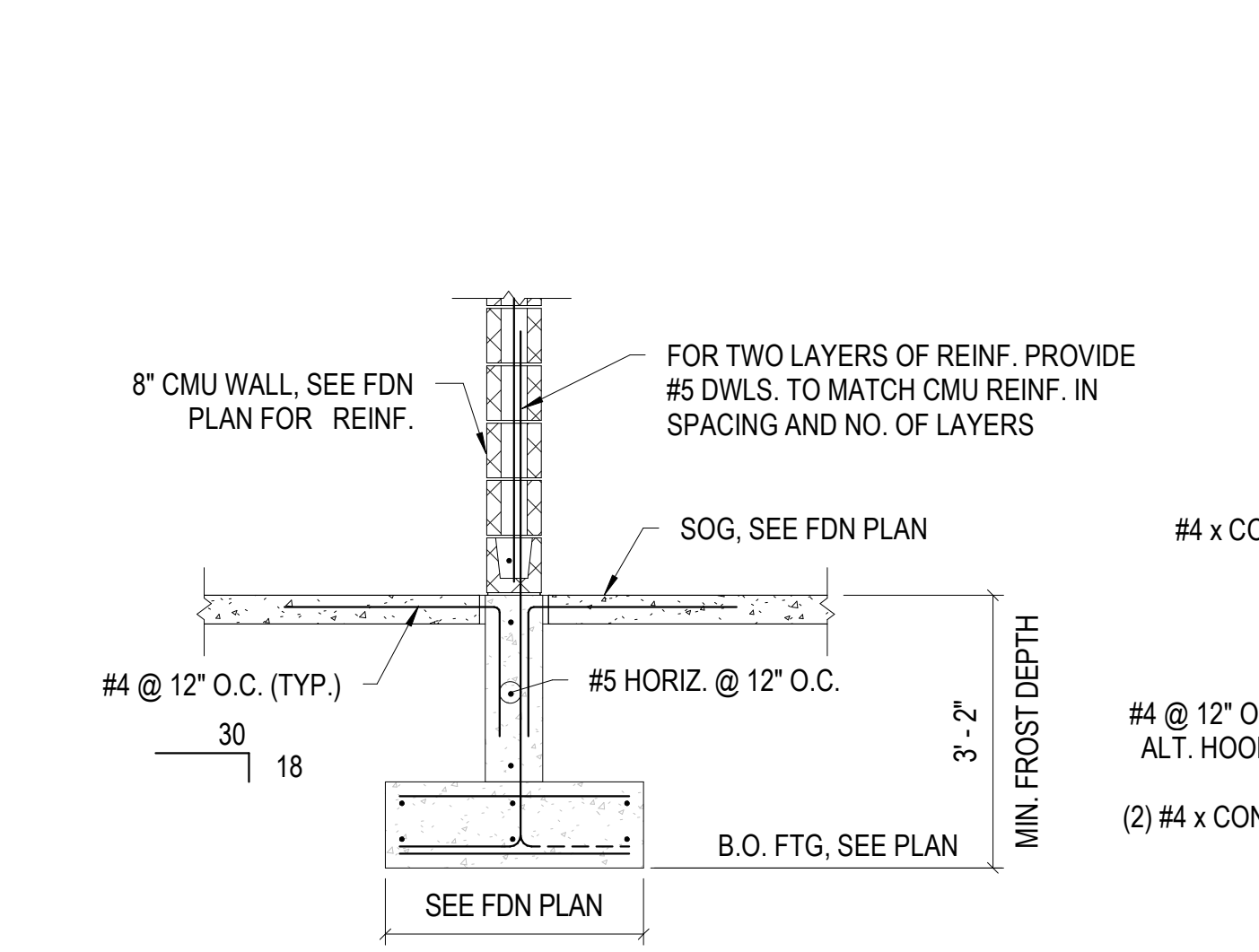
4 SECTION @ INTERIOR WALLS
S300 SCALE: 1/2" = 1'-0"



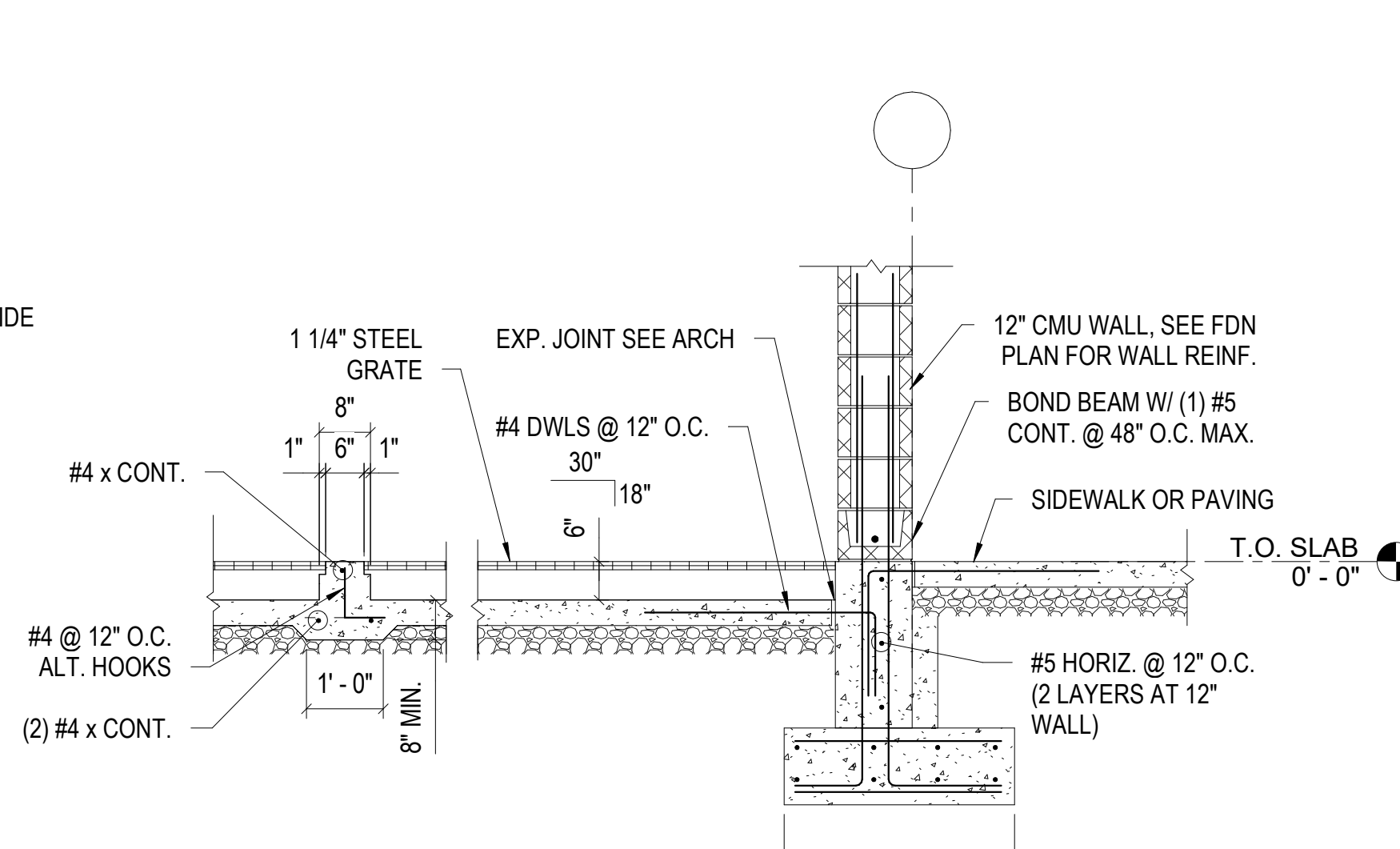
6 SECTION @ VAULT
S300 SCALE: 1/2" = 1'-0"



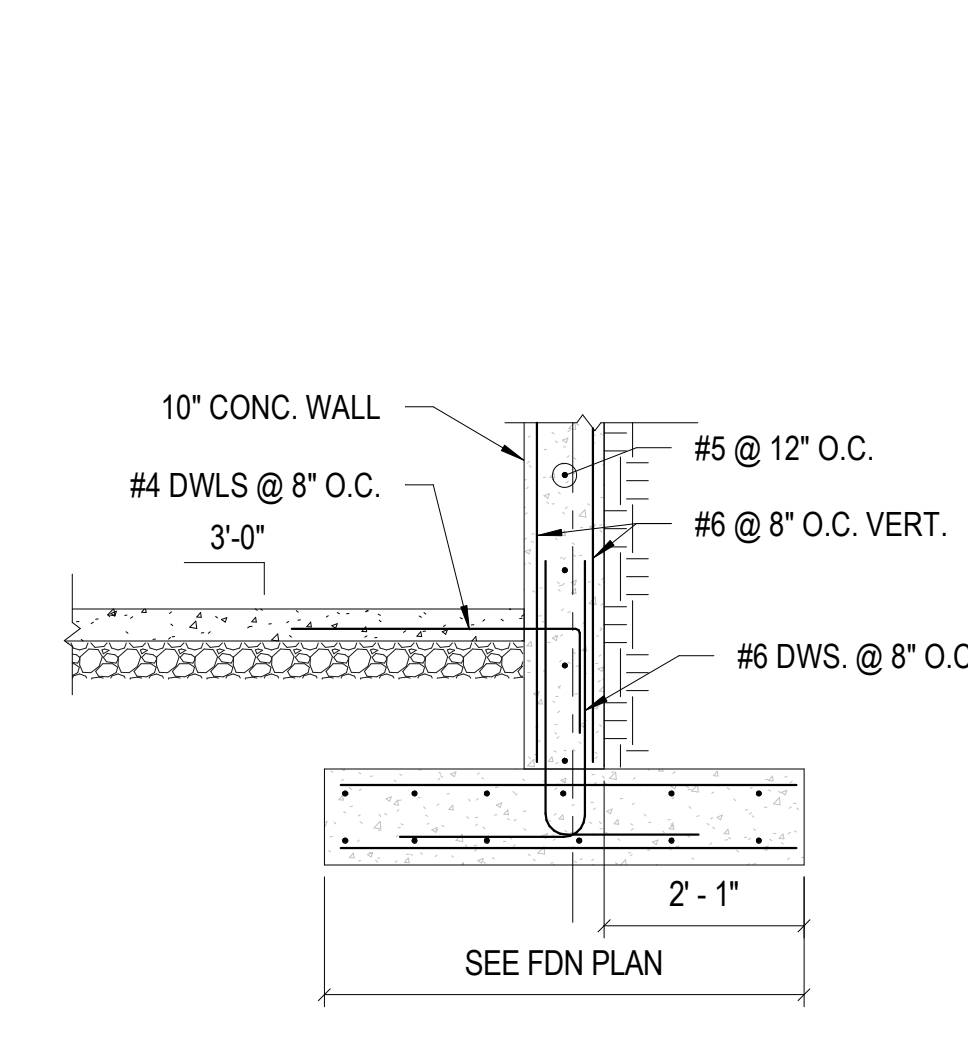
7 SECTION @ 12" WALL 2 LAYERS OF REINF.
S300 SCALE: 1/2" = 1'-0"



8 SECTION @ EXTERIOR 8" CMU
S300 SCALE: 1/2" = 1'-0"



9 RECESSED SLAB DETAIL
S300 SCALE: 1/2" = 1'-0"



10 SECTION
S300 SCALE: 1/2" = 1'-0"



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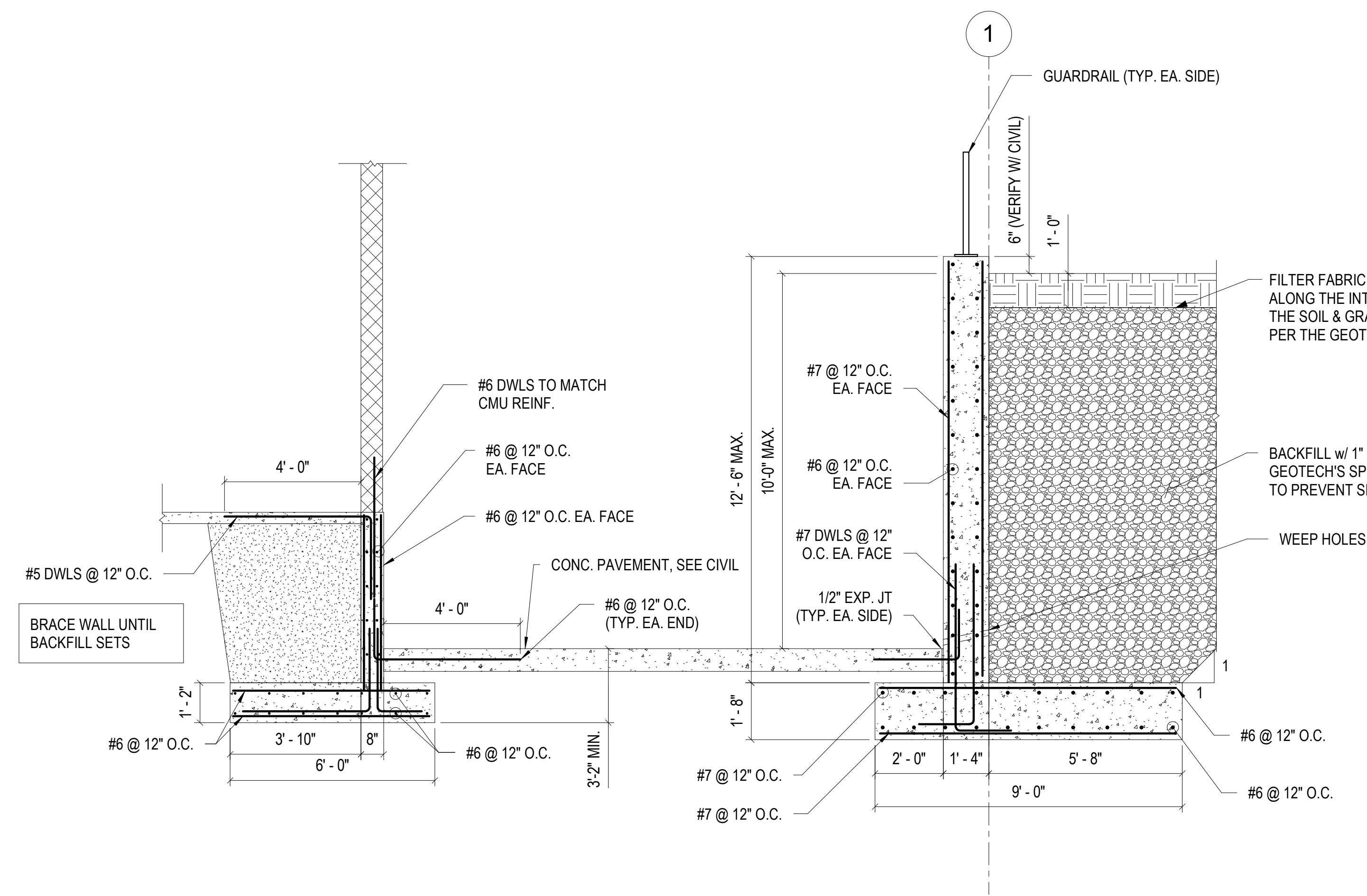
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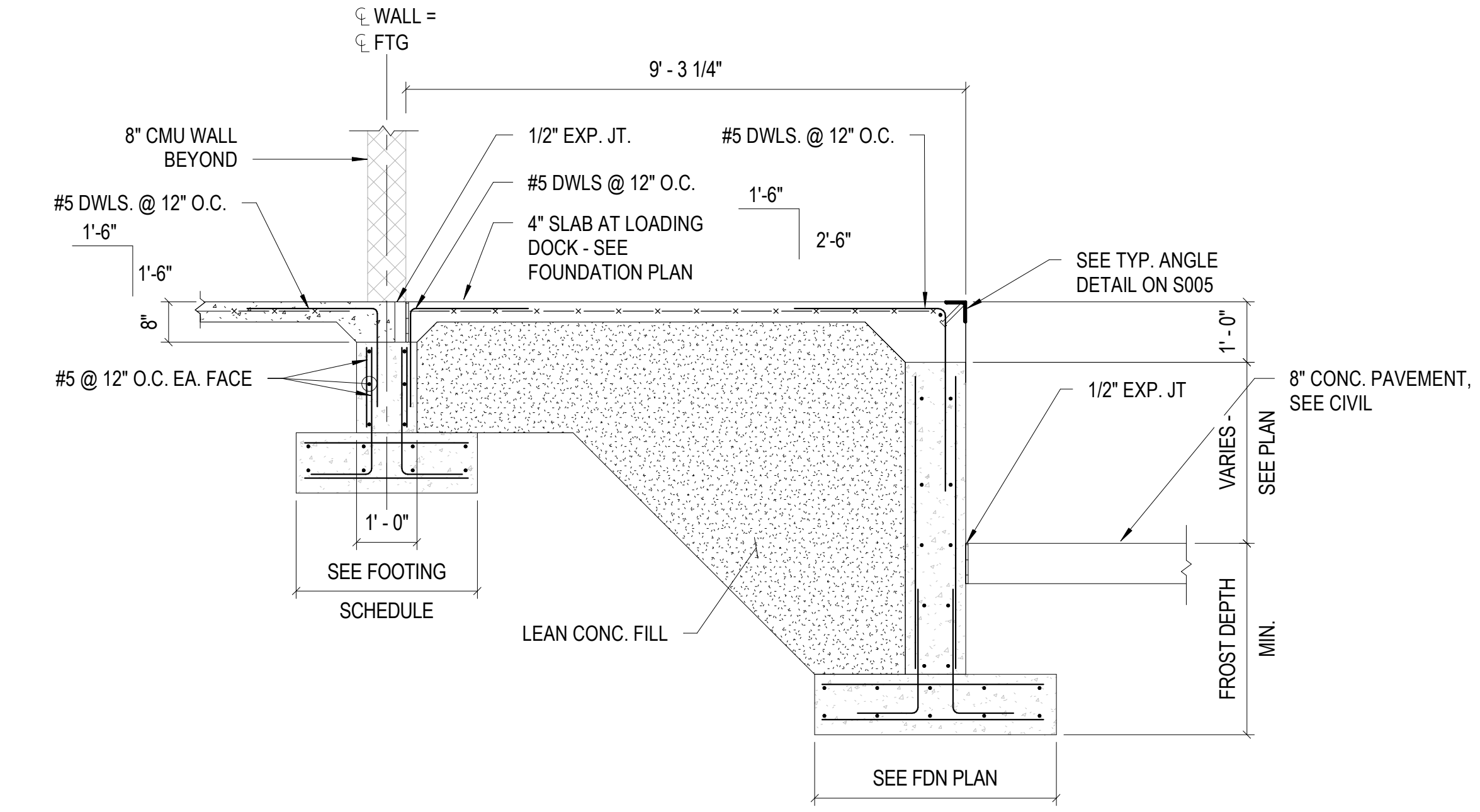
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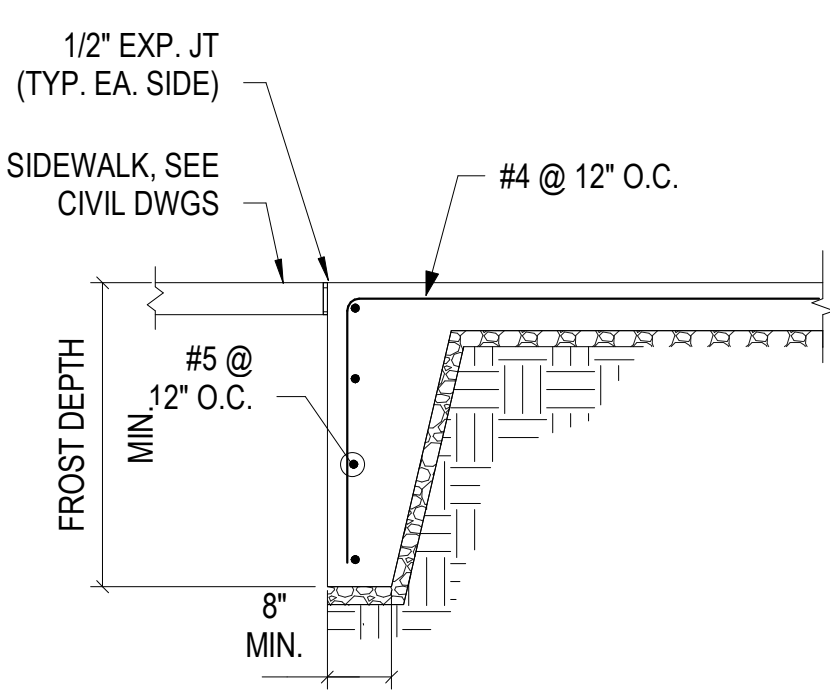
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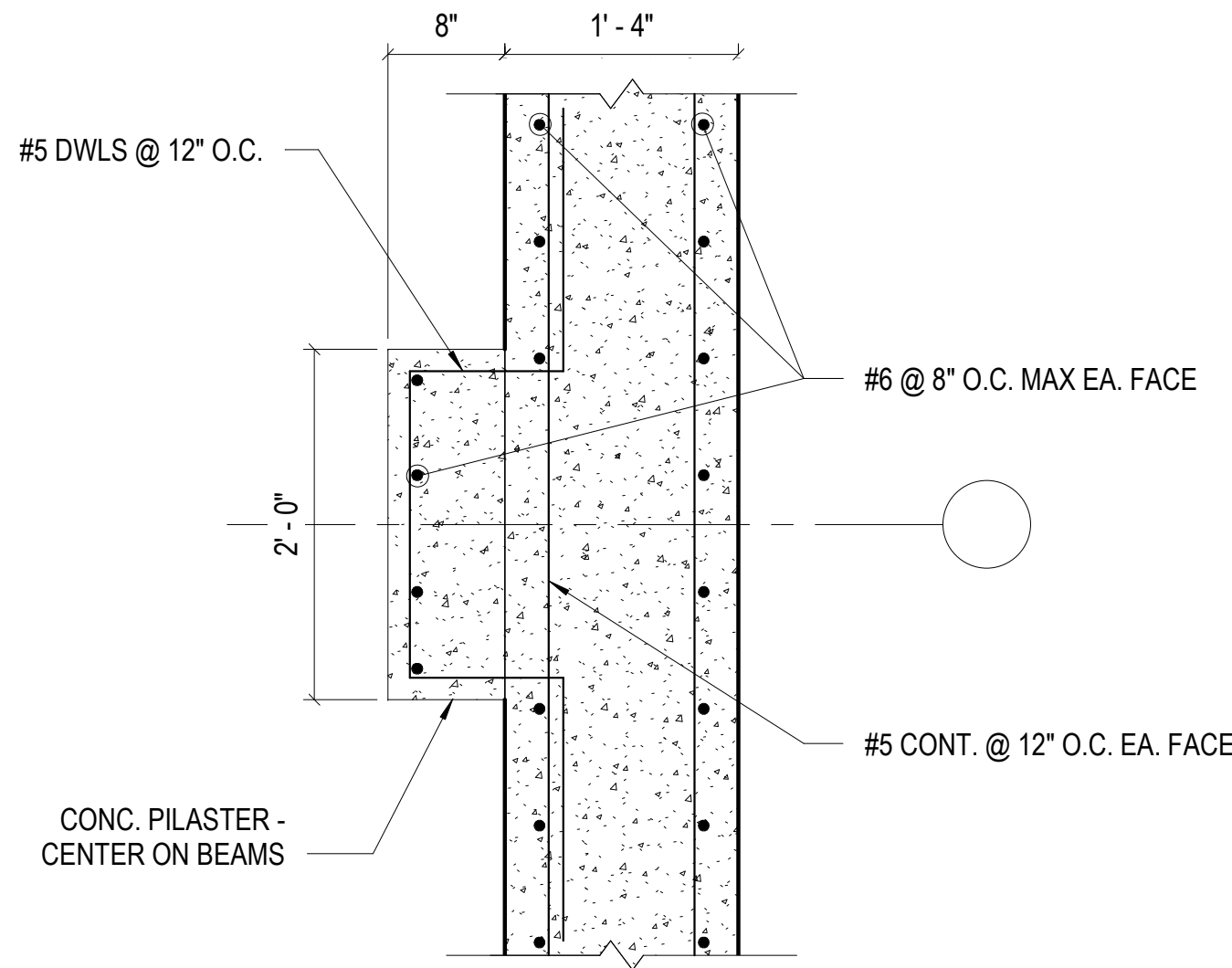
1 SECTION @ LOADING DOCK
S301 SCALE: 3/8" = 1'-0"



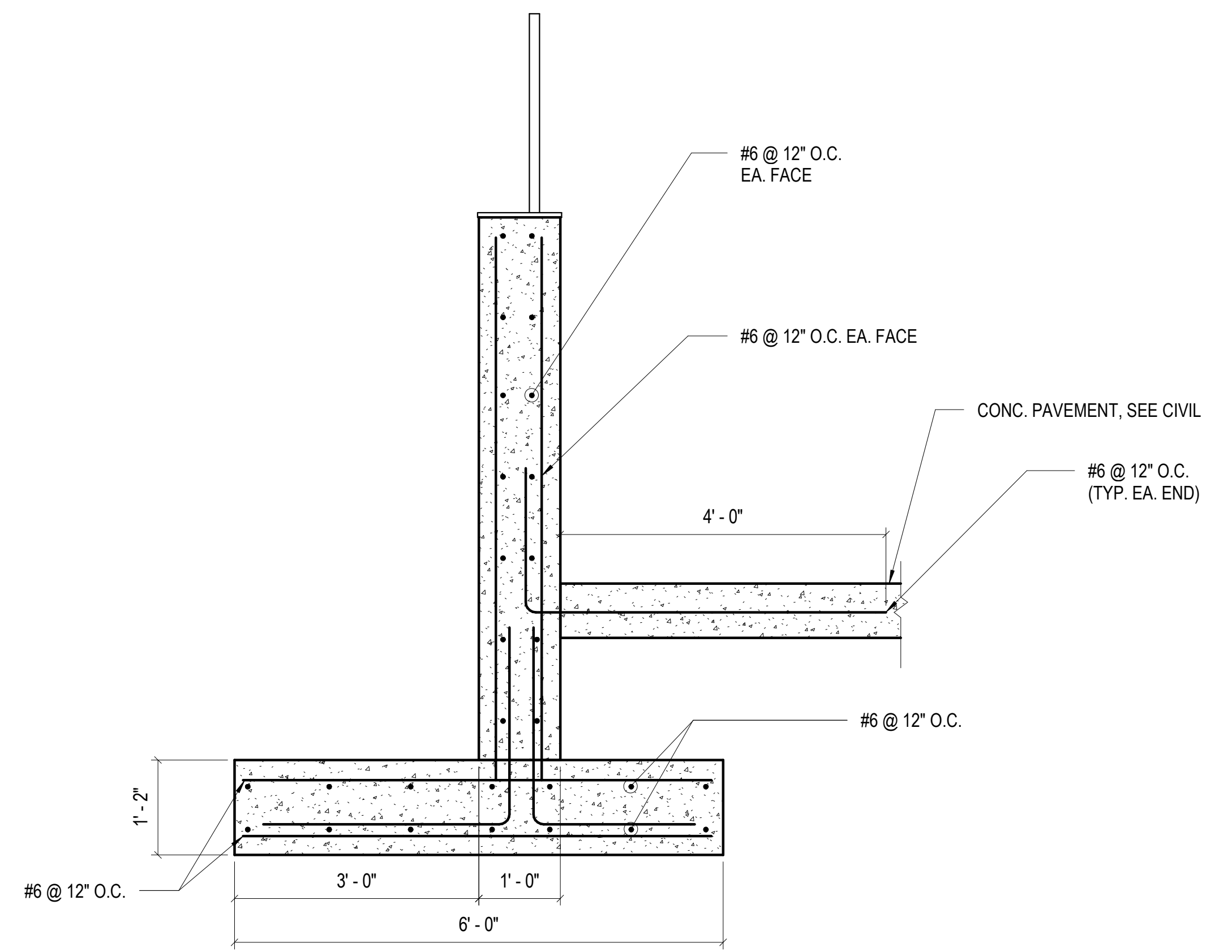
2 FDN SECTION @ LOADING DOCK
S301 SCALE: 1/2" = 1'-0"



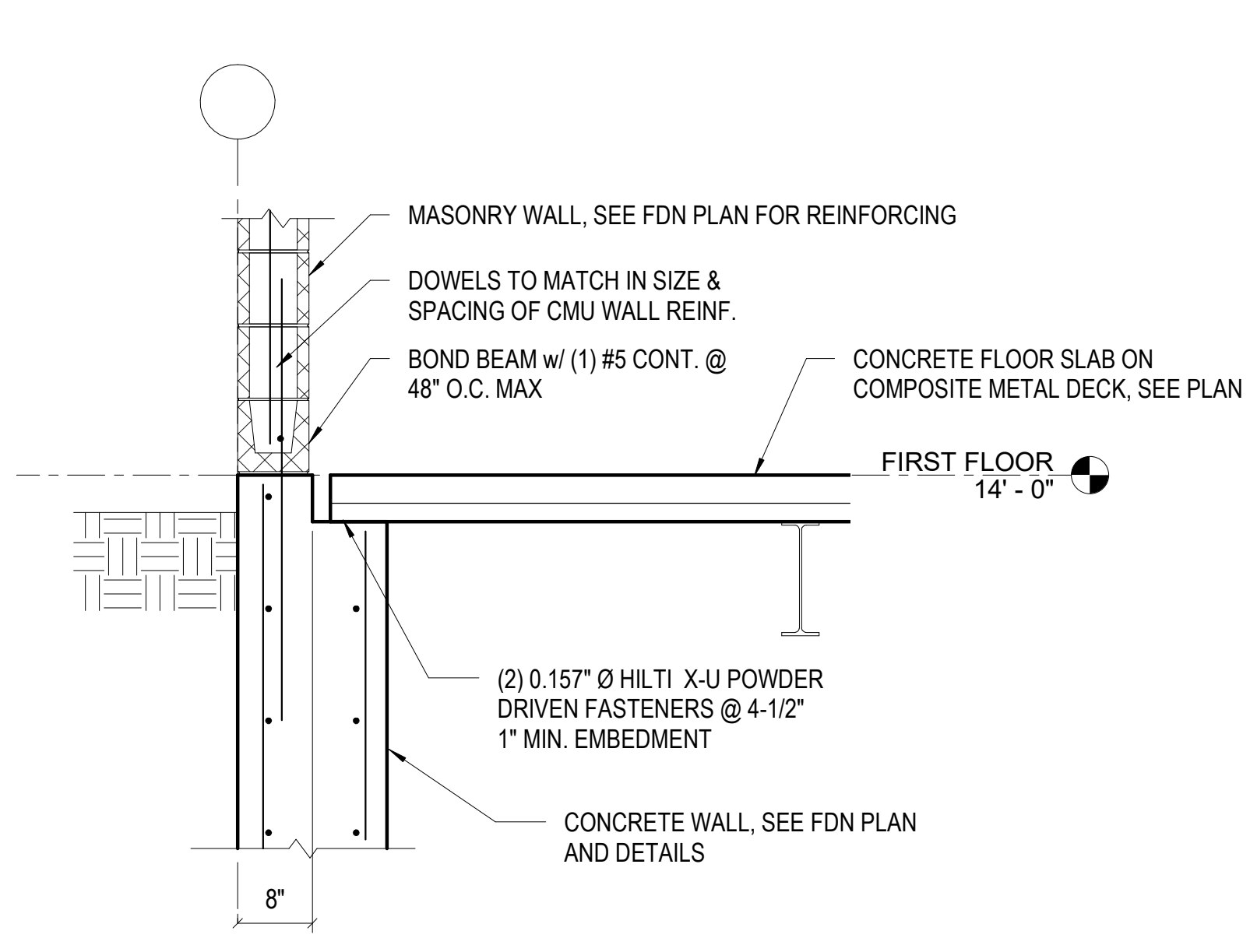
3 TYPICAL TURNED DOWN SLAB EDGE @ S.O.G
S301 SCALE: 1/2" = 1'-0"



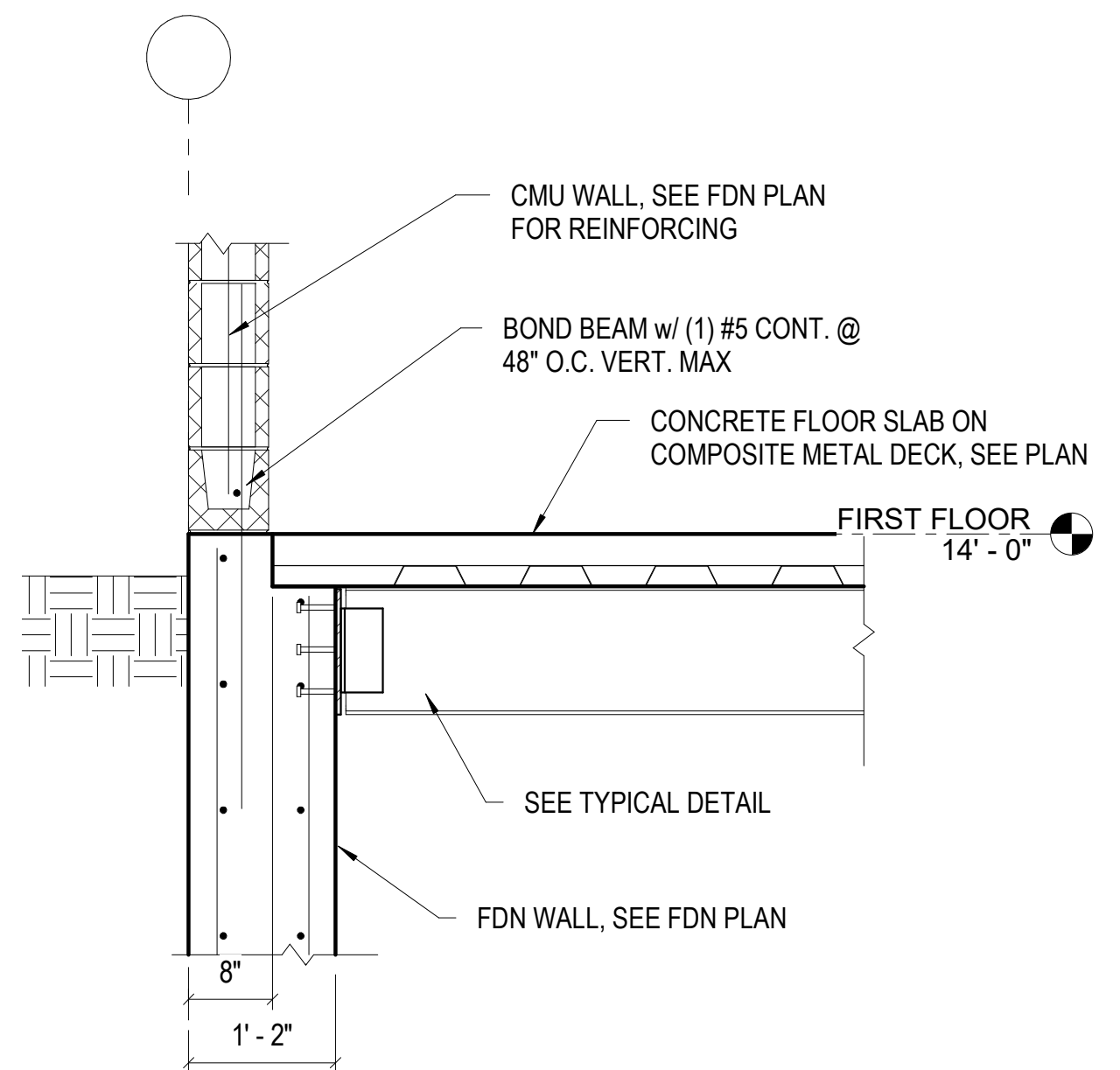
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S301 SCALE: 1" = 1'-0"



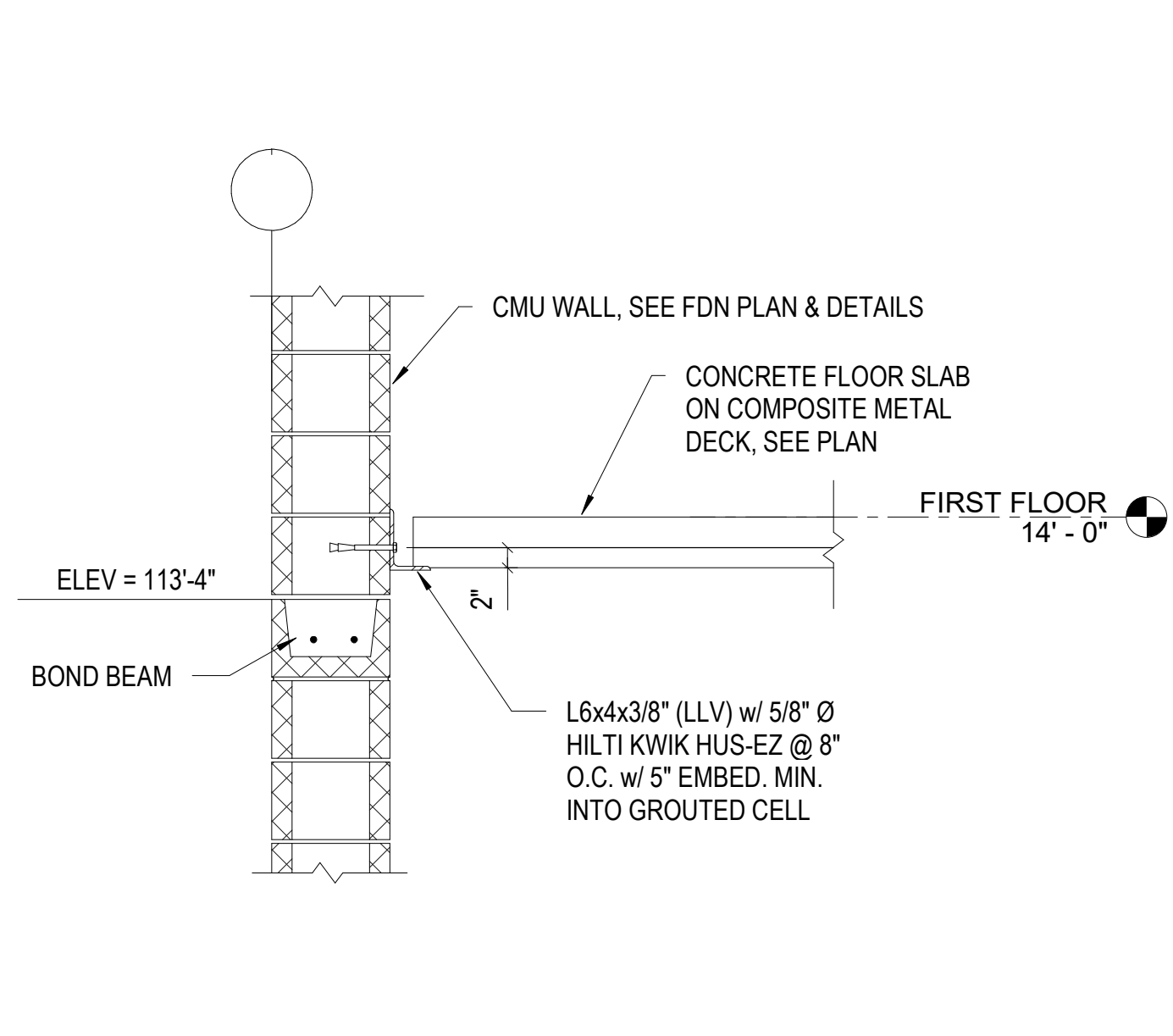
5 SECTION
S301 SCALE: 3/4" = 1'-0"



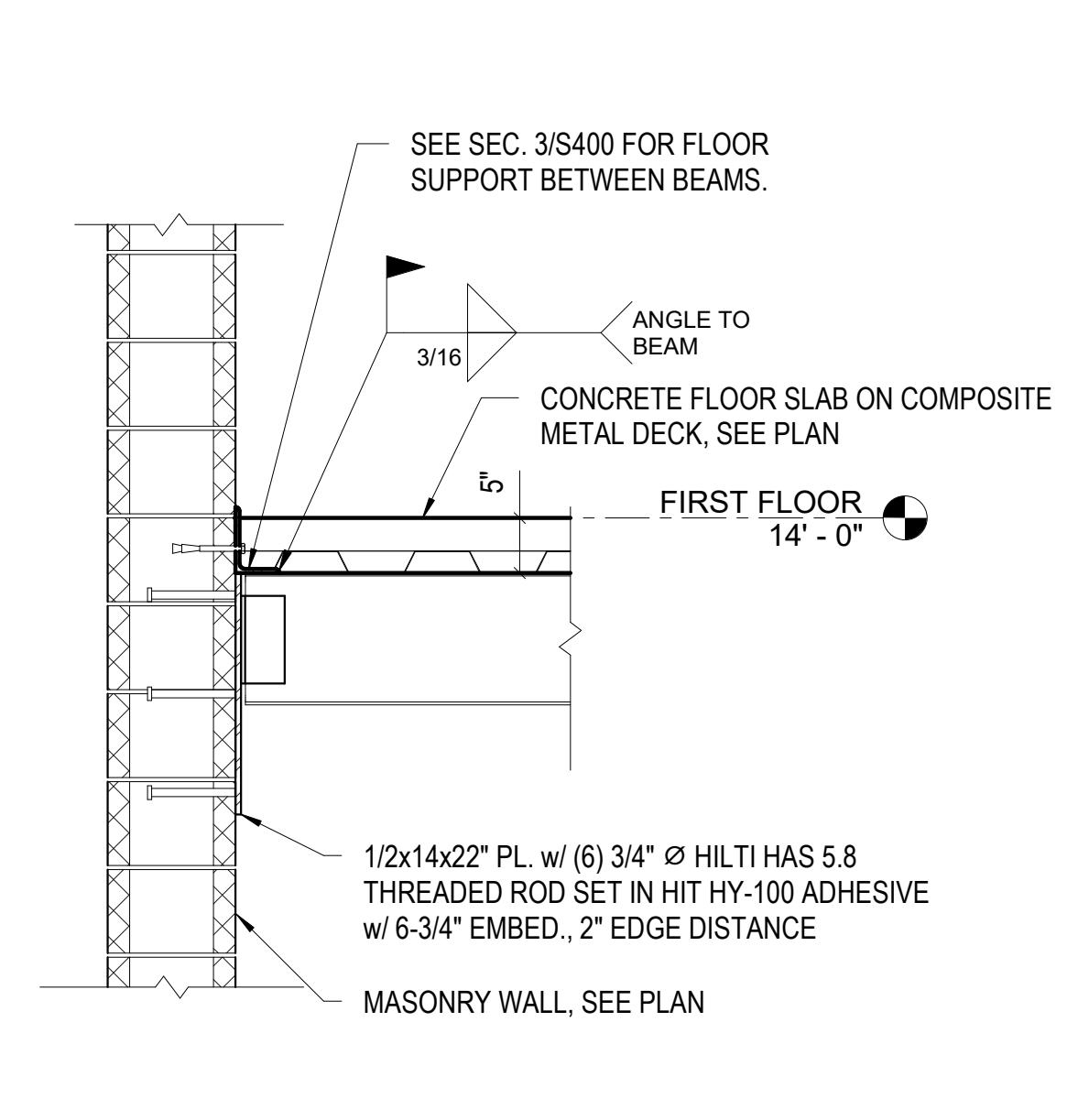
1 SECTION @ CONCRETE WALL
S400 SCALE: 3/4" = 1'-0"



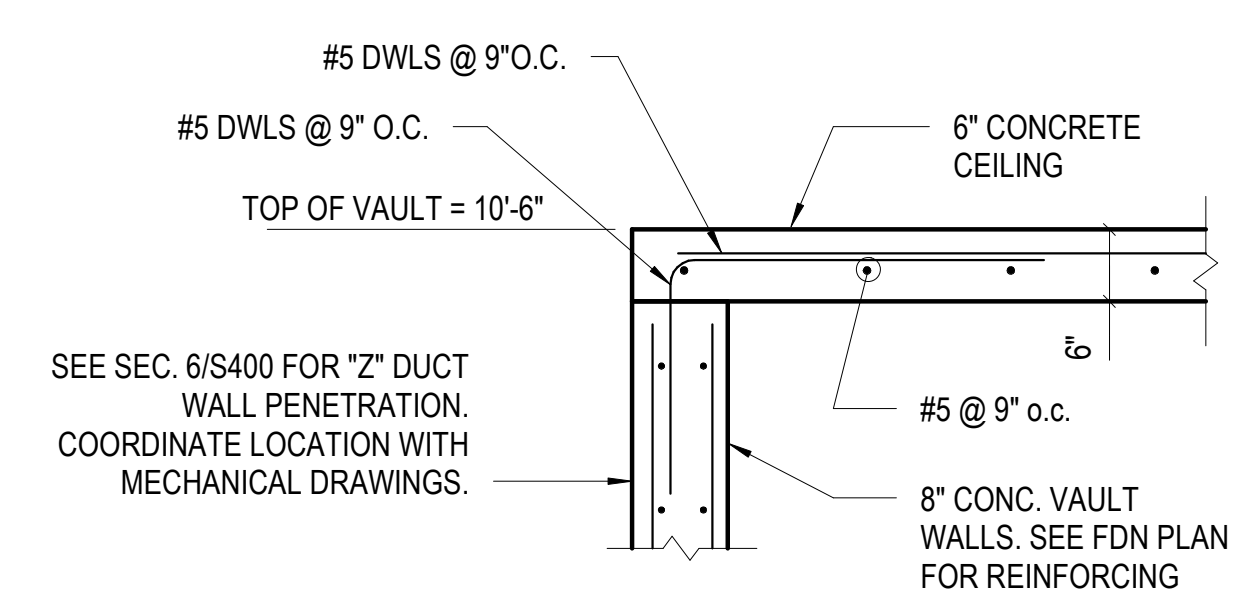
2 BEAM @ CONCRETE WALL SECTION
S400 SCALE: 3/4" = 1'-0"



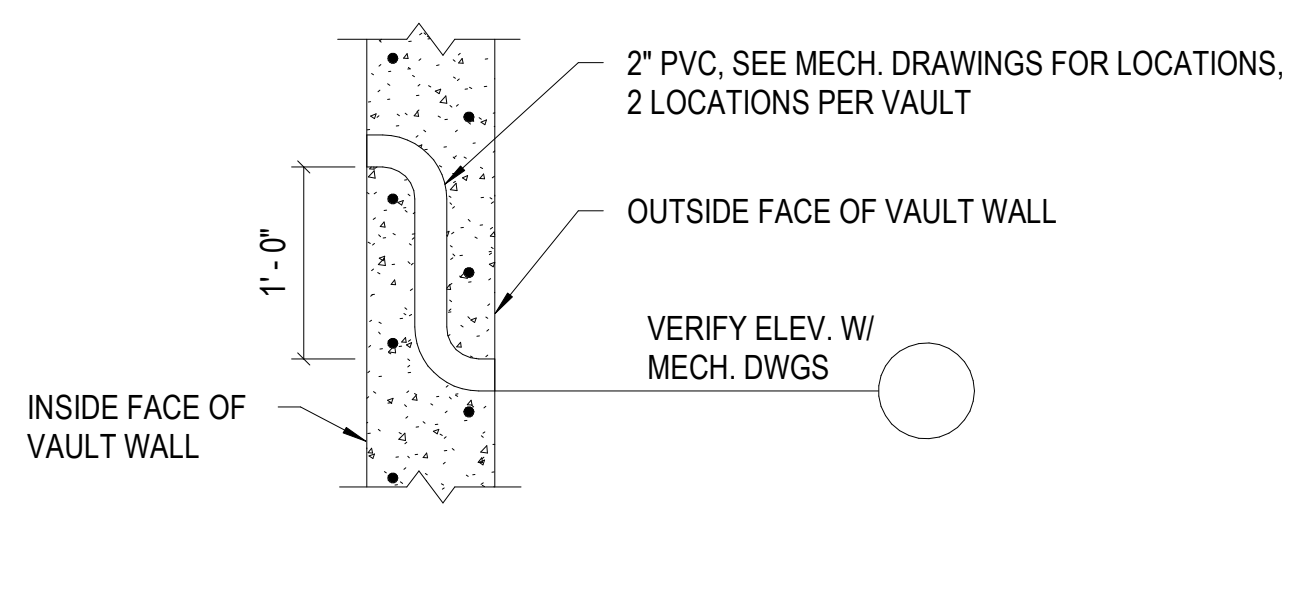
3 DECK TO MASONRY WALL SECTION
S400 SCALE: 3/4" = 1'-0"



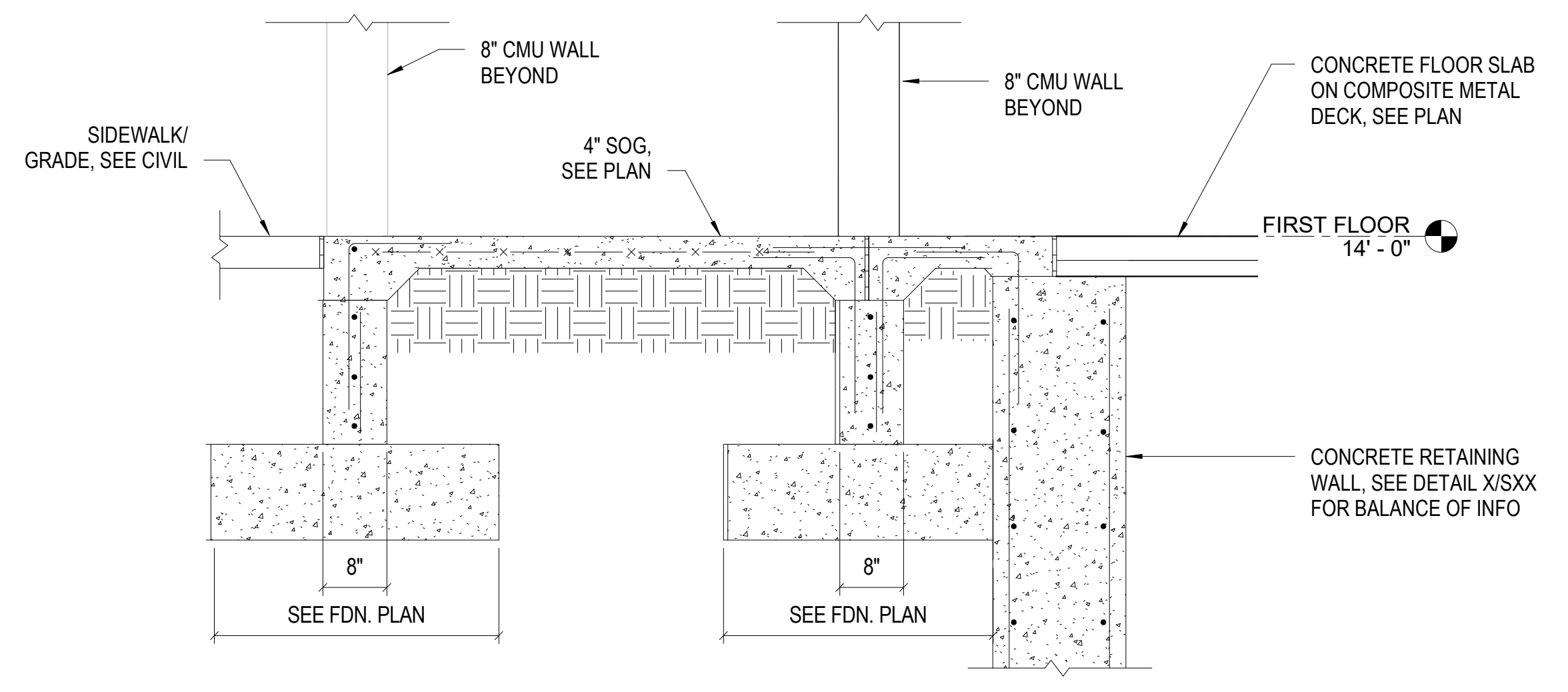
4 SECTION @ FLOOR BEAM
S400 SCALE: 3/4" = 1'-0"



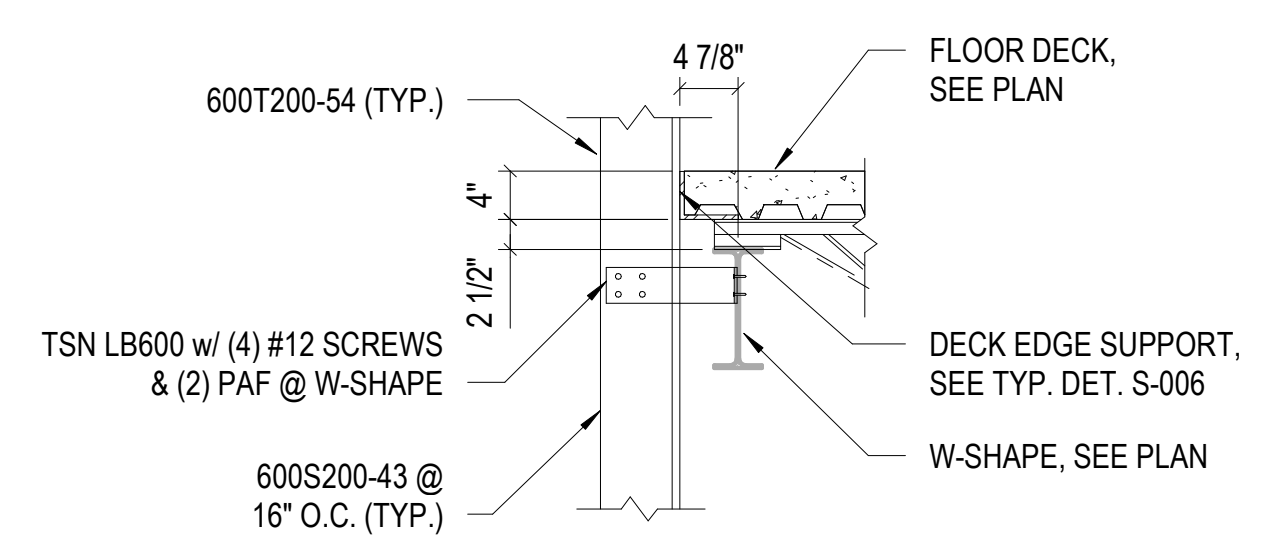
5 SECTION @ VAULT ROOF
S400 SCALE: 3/4" = 1'-0"



6 "Z" DUCT DETAIL
S400 SCALE: 1" = 1'-0"

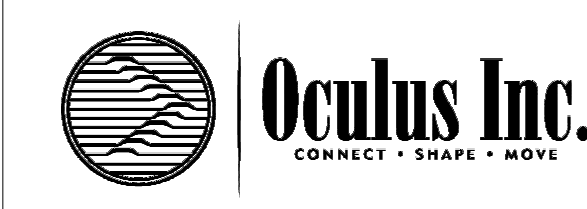
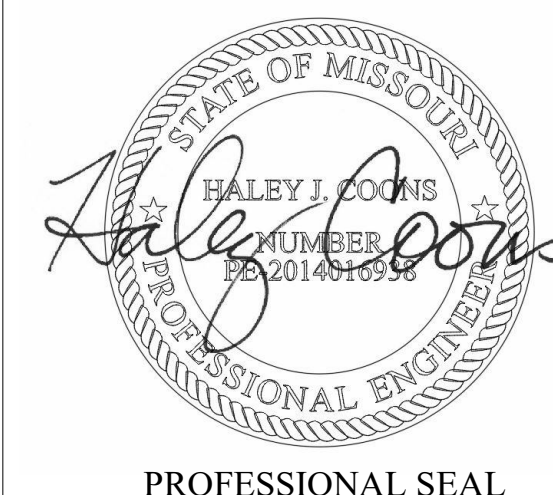


7 SECTION @ MAIN ENTRANCE DOOR
S400 SCALE: 3/4" = 1'-0"



8 TYPICAL ELEVATOR SHAFT DETAIL
S400 SCALE: 3/4" = 1'-0"

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DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: JYI
CHECKED BY: IMC
DESIGNED BY: Designer

SHEET TITLE:
FLOOR FRAMING
DETAILS

SHEET NUMBER:

S400

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05/03/2024



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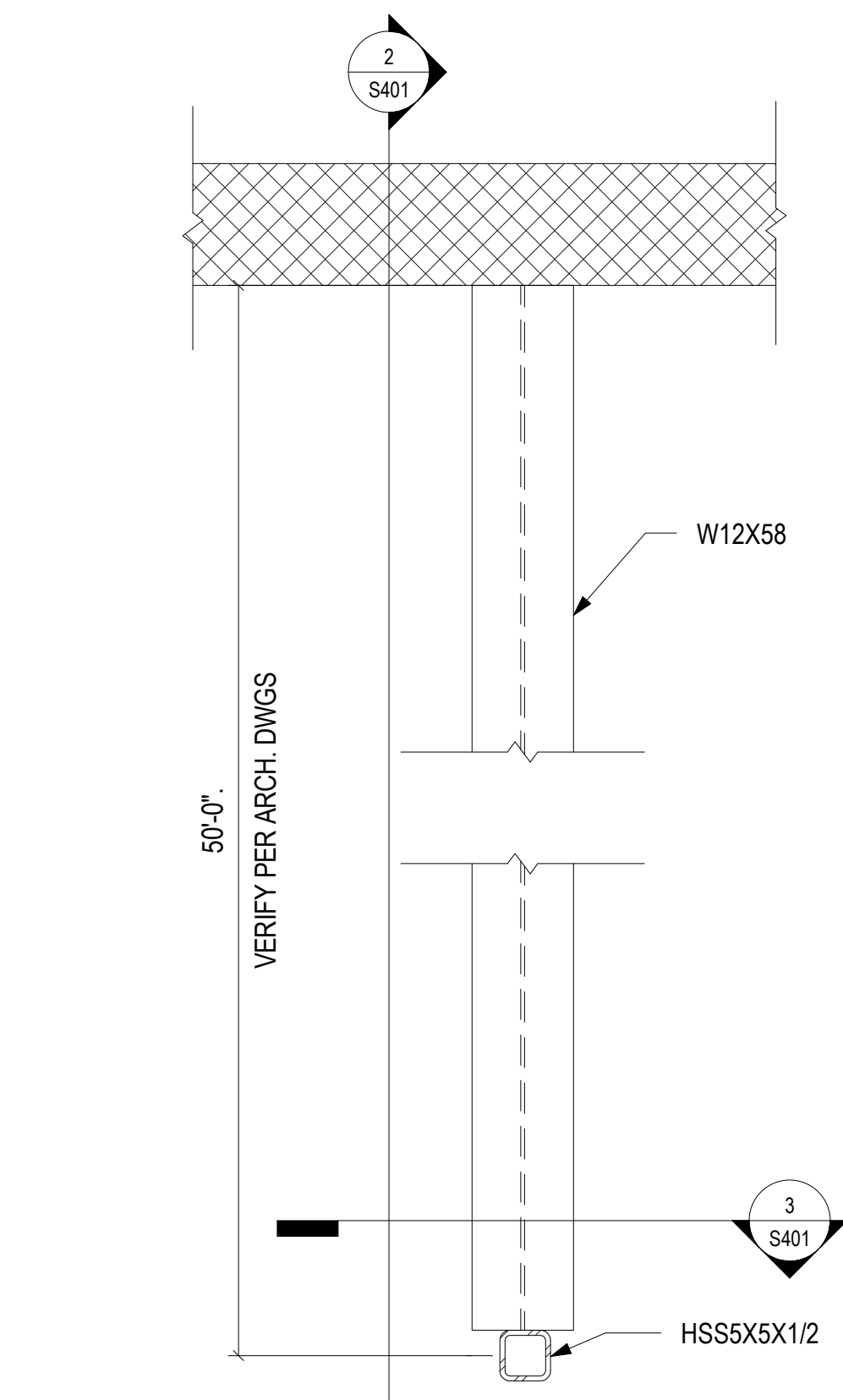
CAD DWG FILE:
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
**MOVABLE
PARTITION PLANS
AND DETAILS**

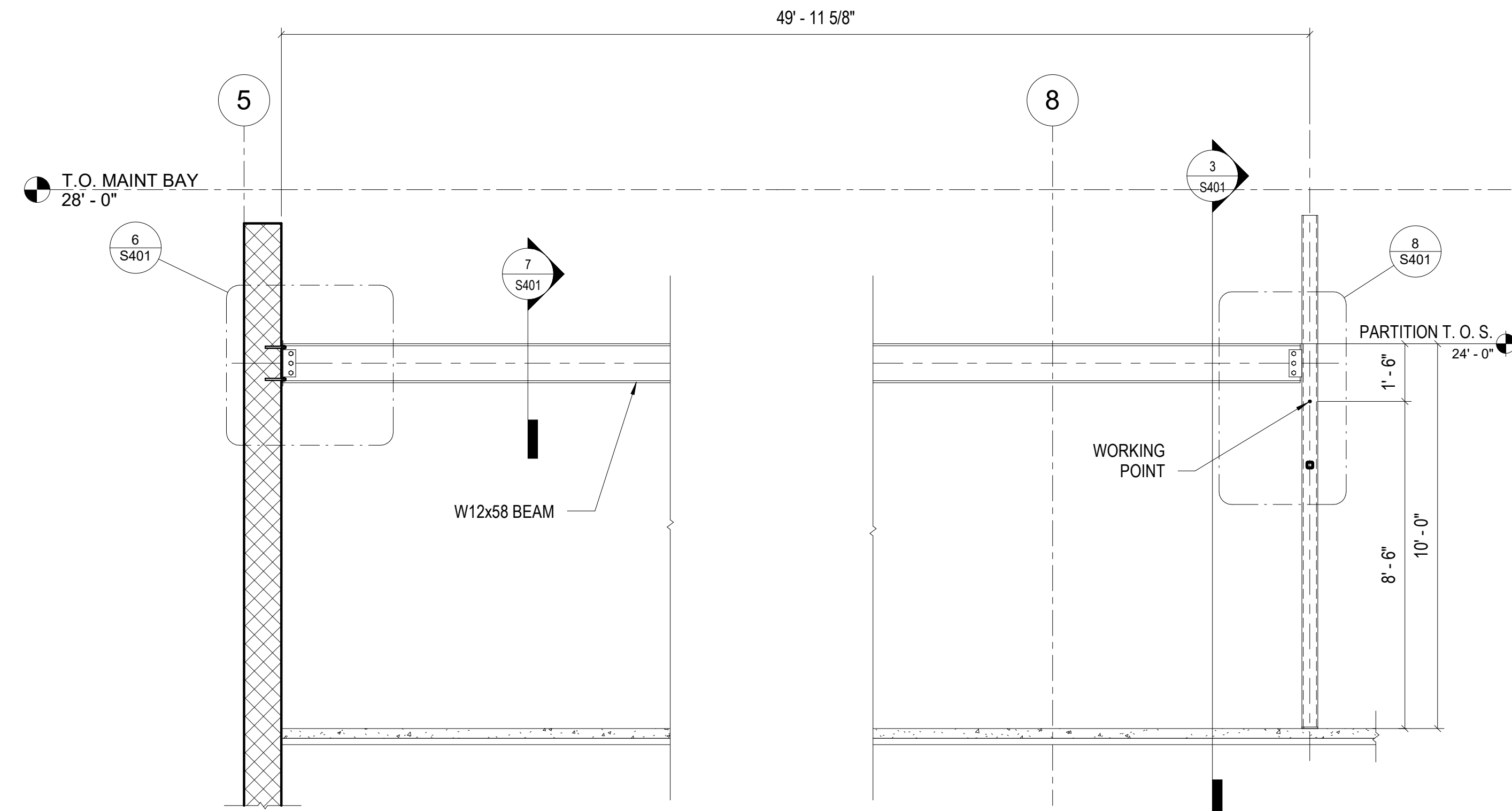
SHEET NUMBER:

S401

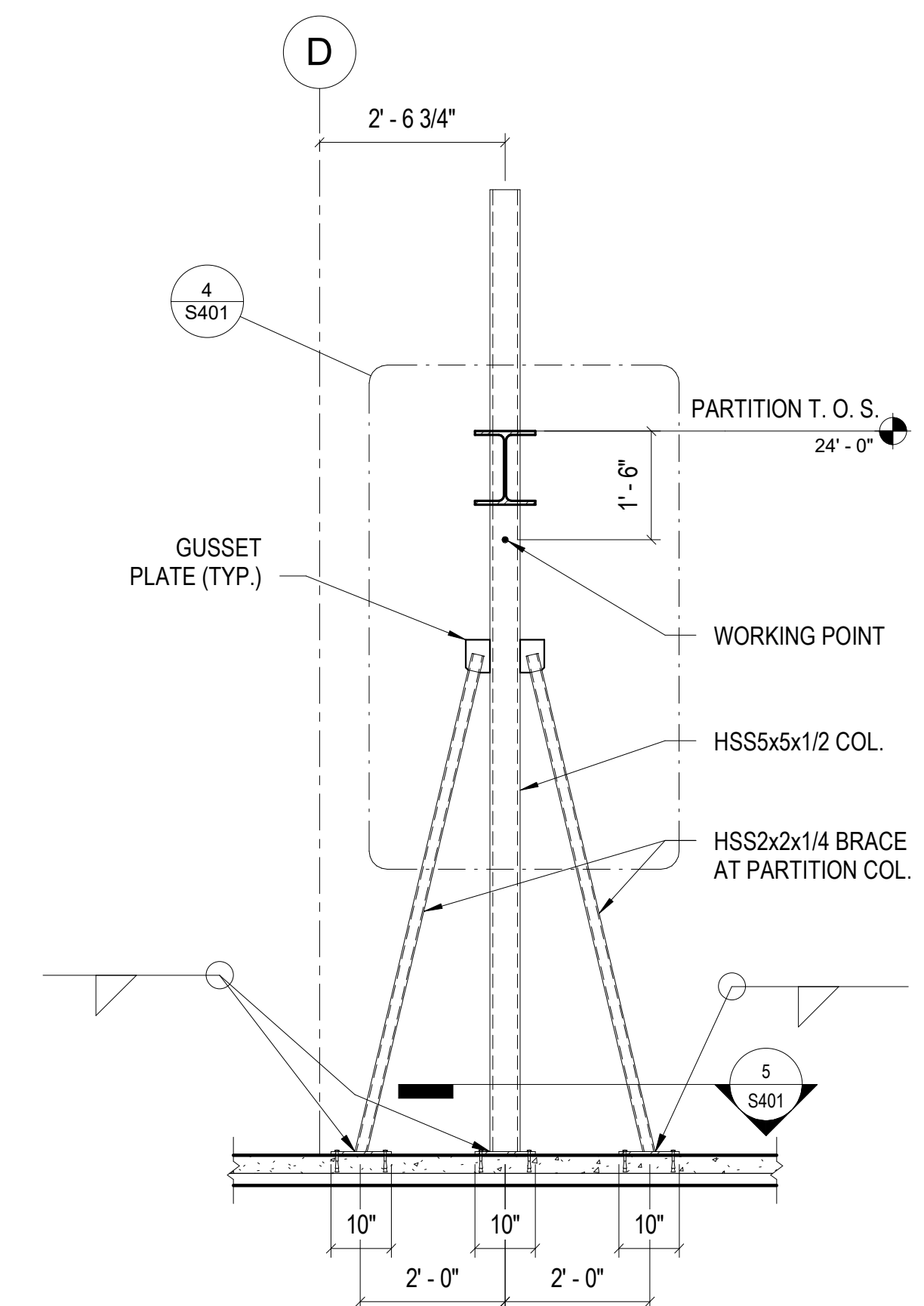
88 OF 272 SHEETS
05/03/2024



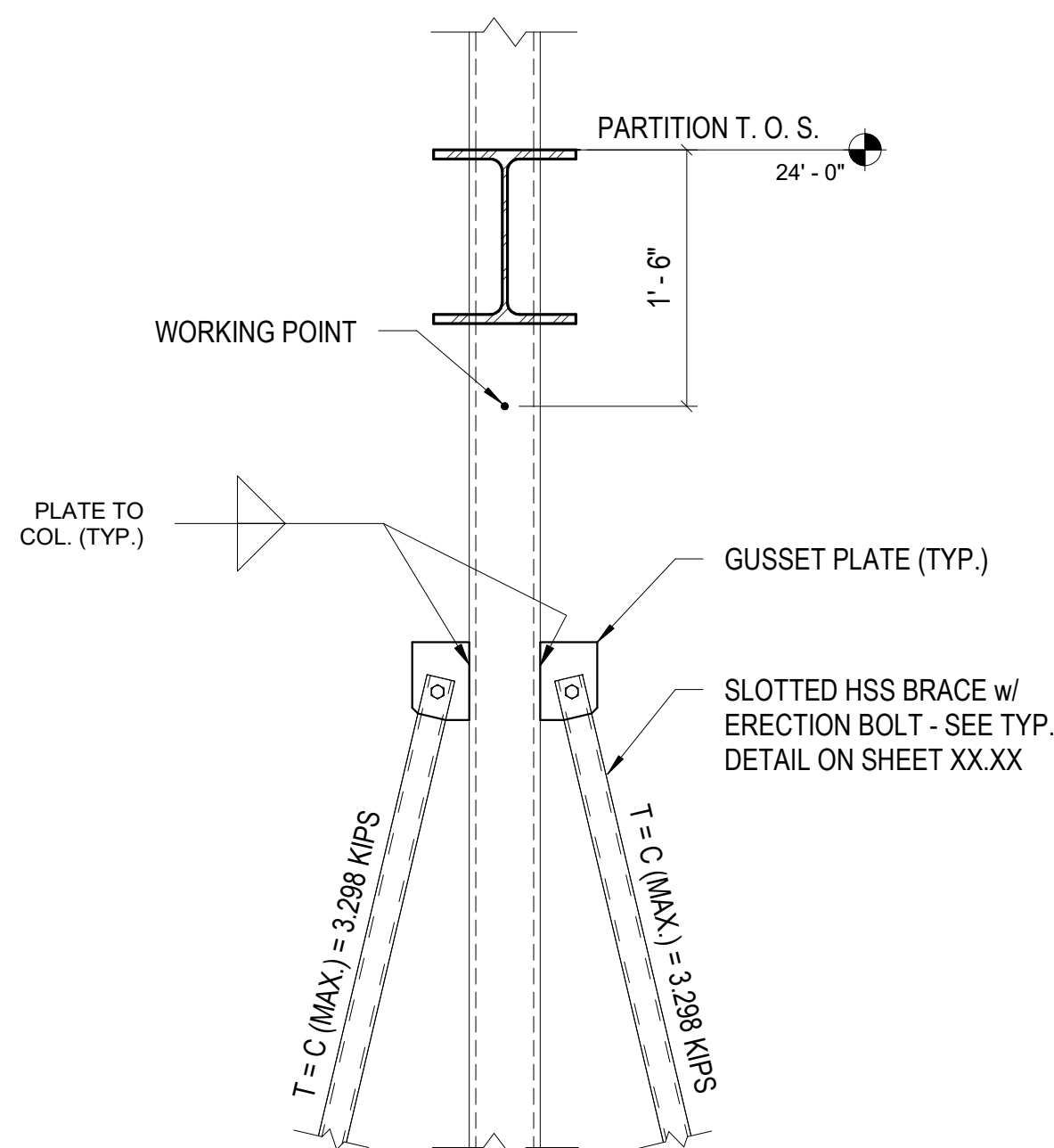
1 MOVABLE PARTITION PLAN
S401 SCALE: 3/4" = 1'-0"



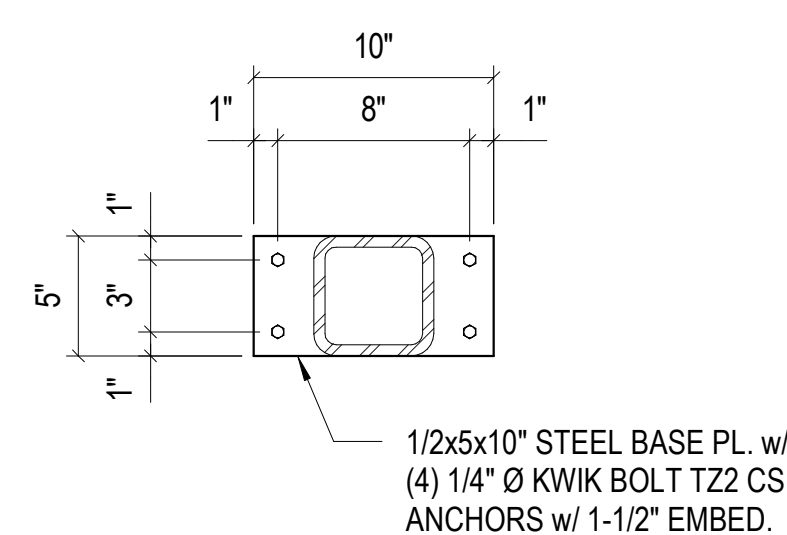
2 PARTITION BEAM SECTION
S401 SCALE: 3/8" = 1'-0"



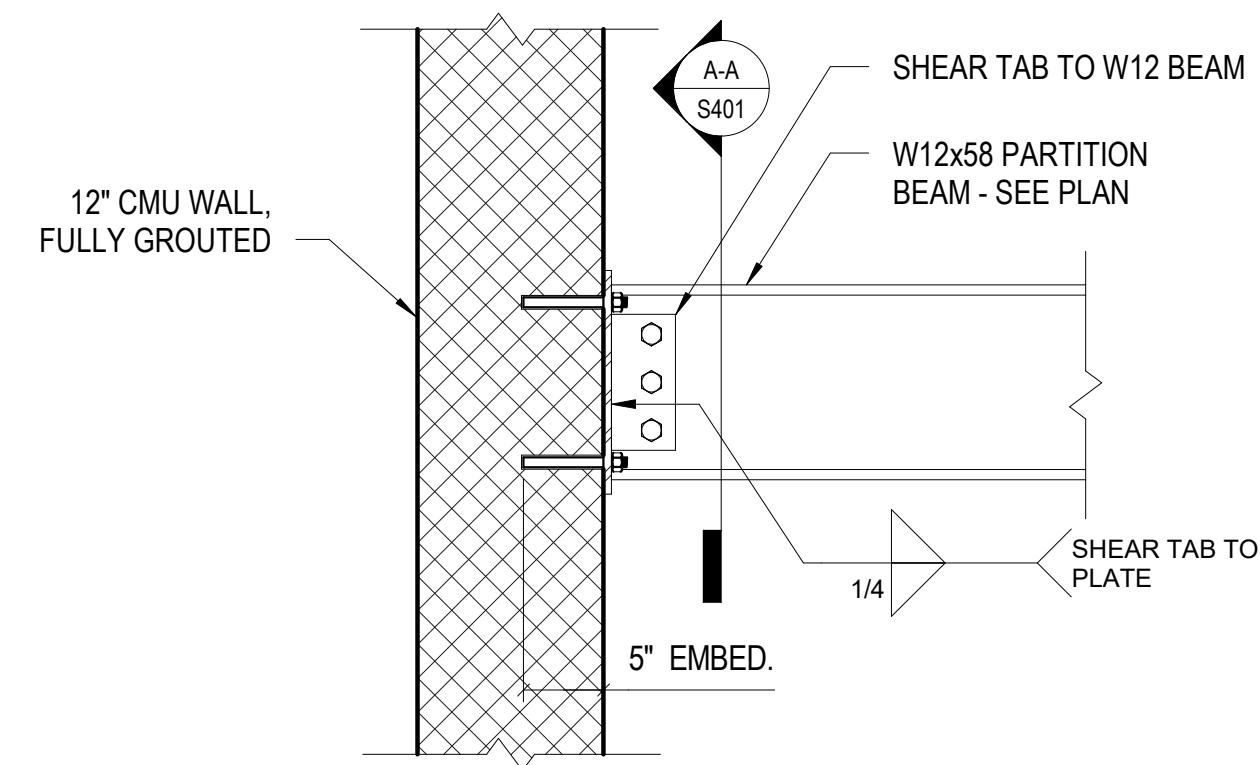
3 BRACED COLUMN ELEVATION
S401 SCALE: 1/2" = 1'-0"



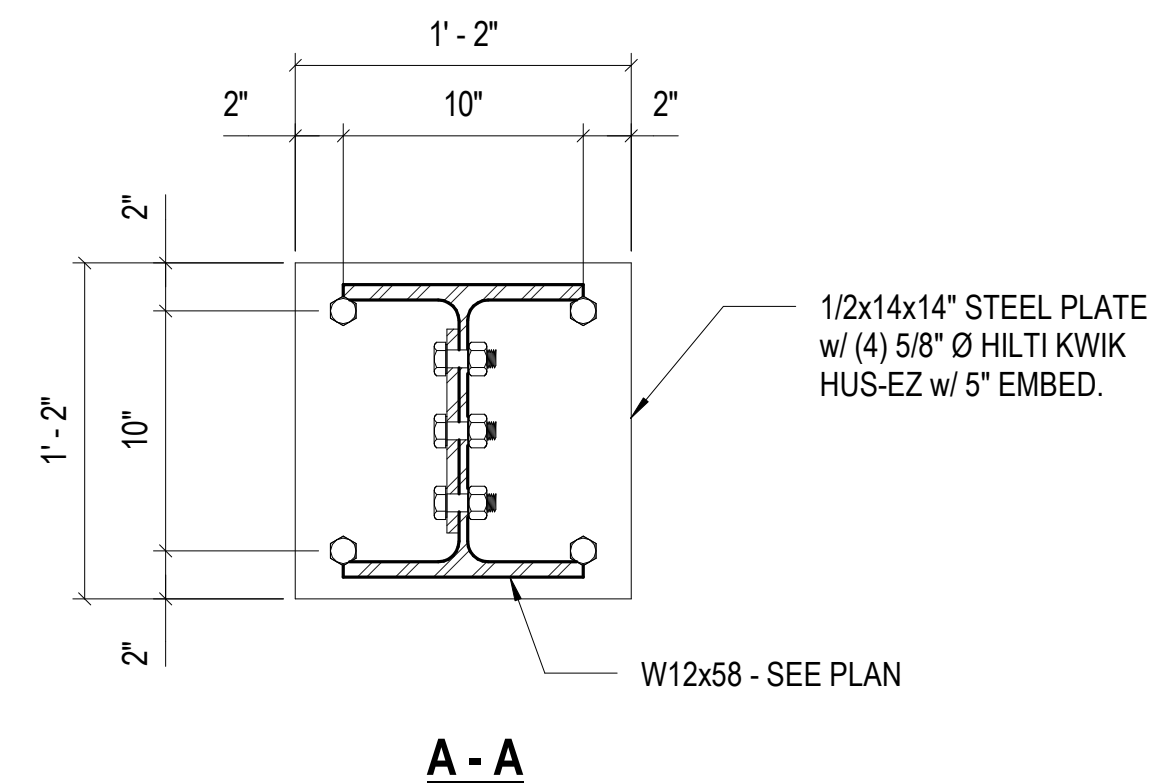
4 GUSSET PLATES
S401 SCALE: 1" = 1'-0"



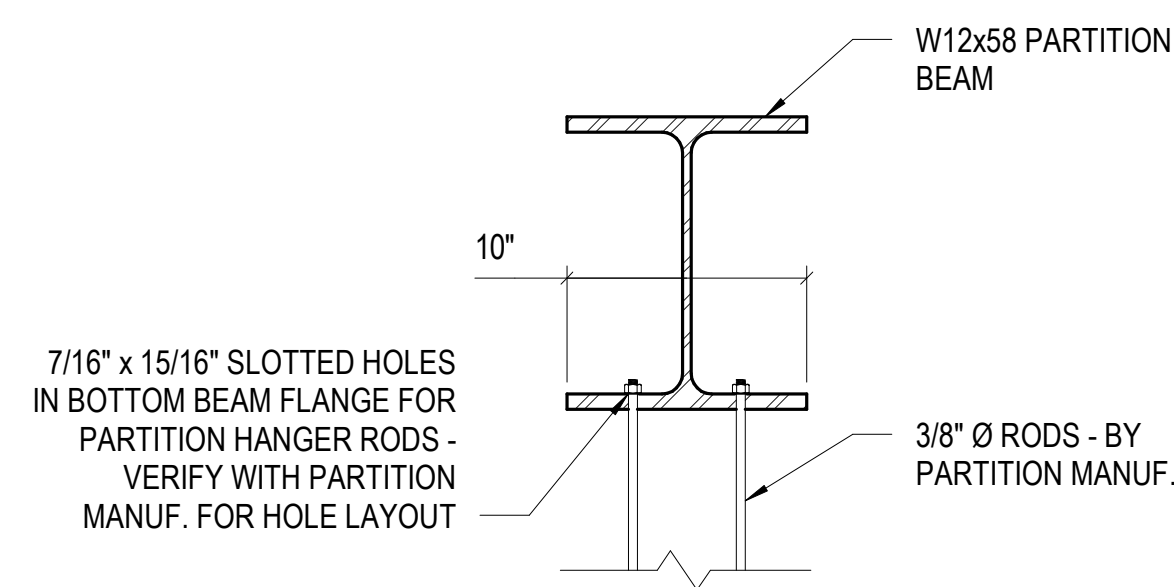
5 COLUMN BASE PLATE
S401 SCALE: 1 1/2" = 1'-0"



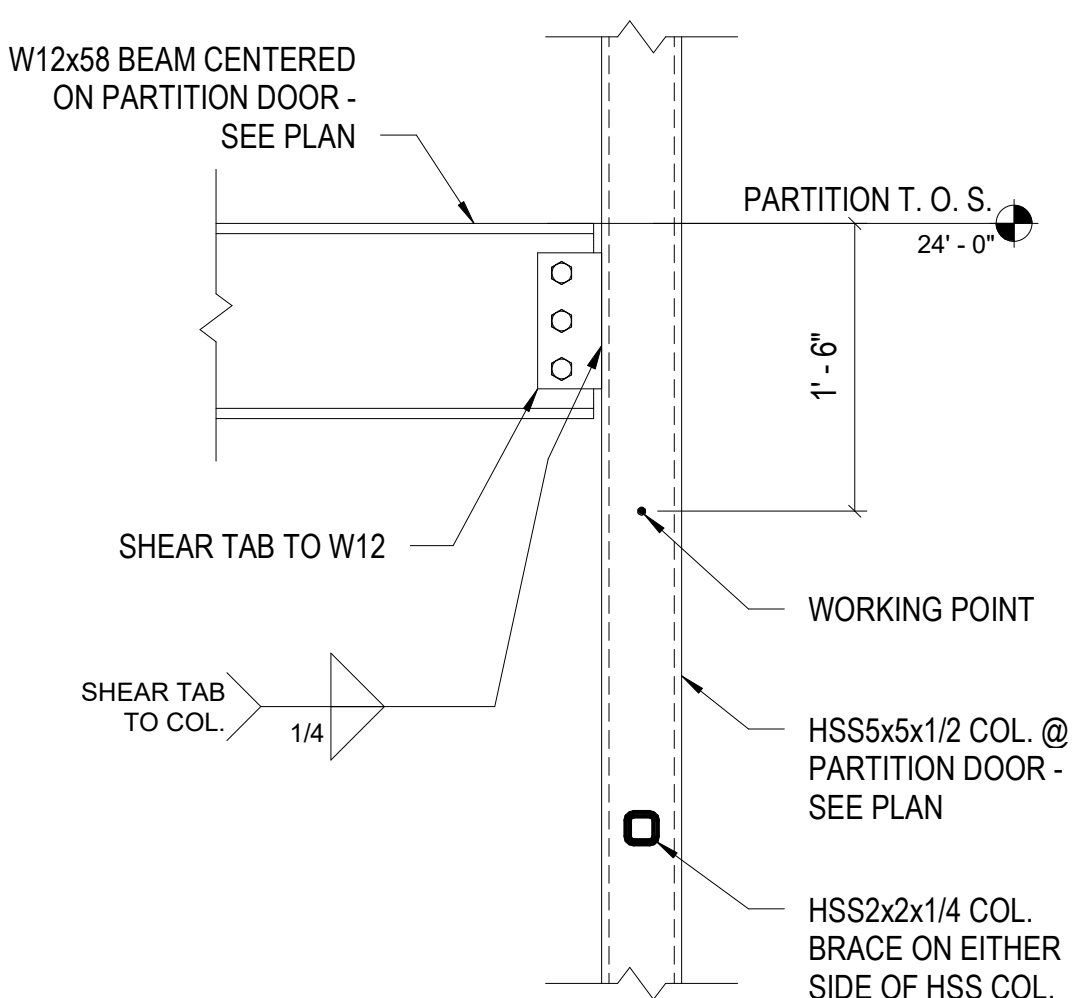
6 CONNECTION @ TILT PANEL
S401 SCALE: 1" = 1'-0"



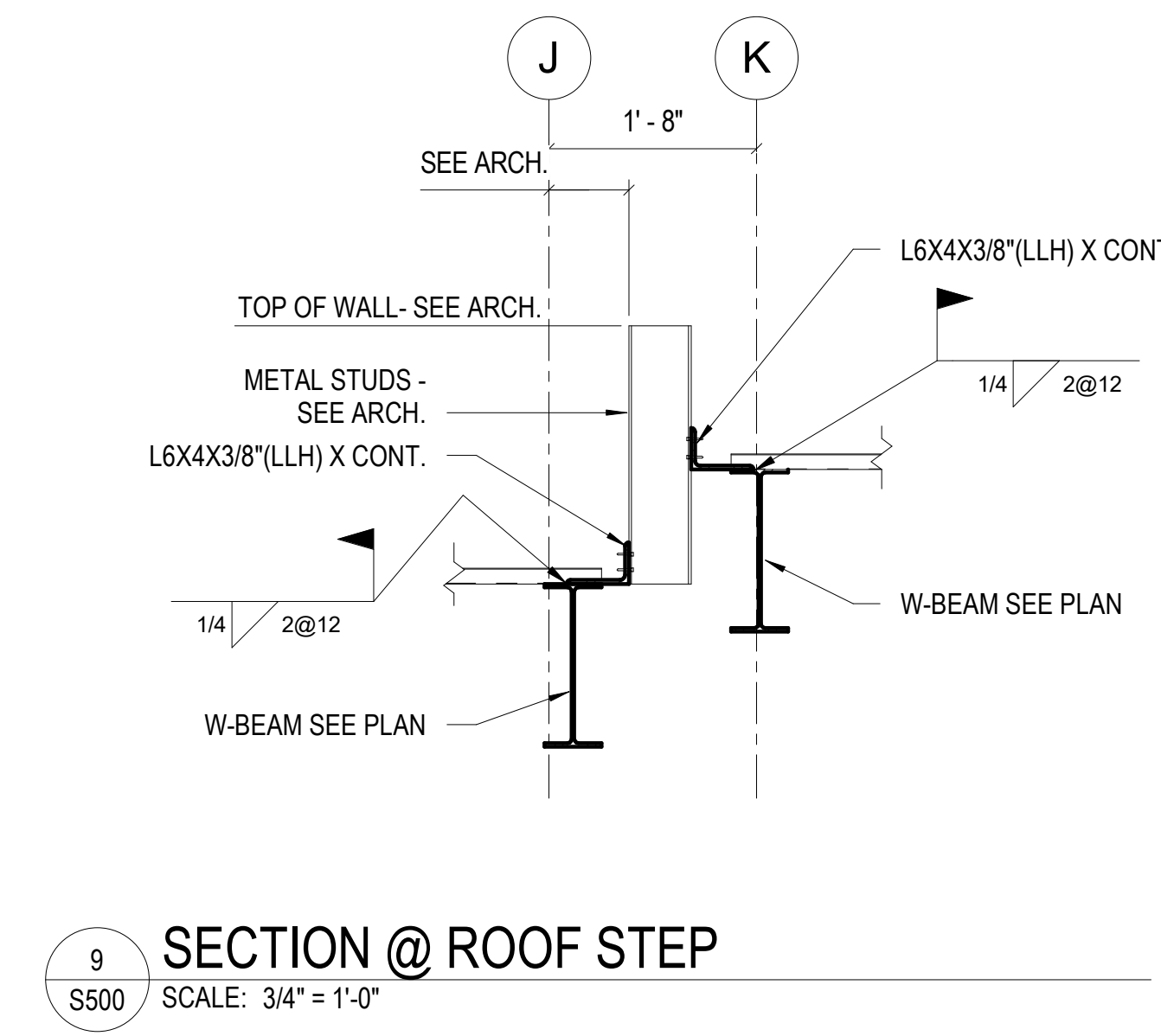
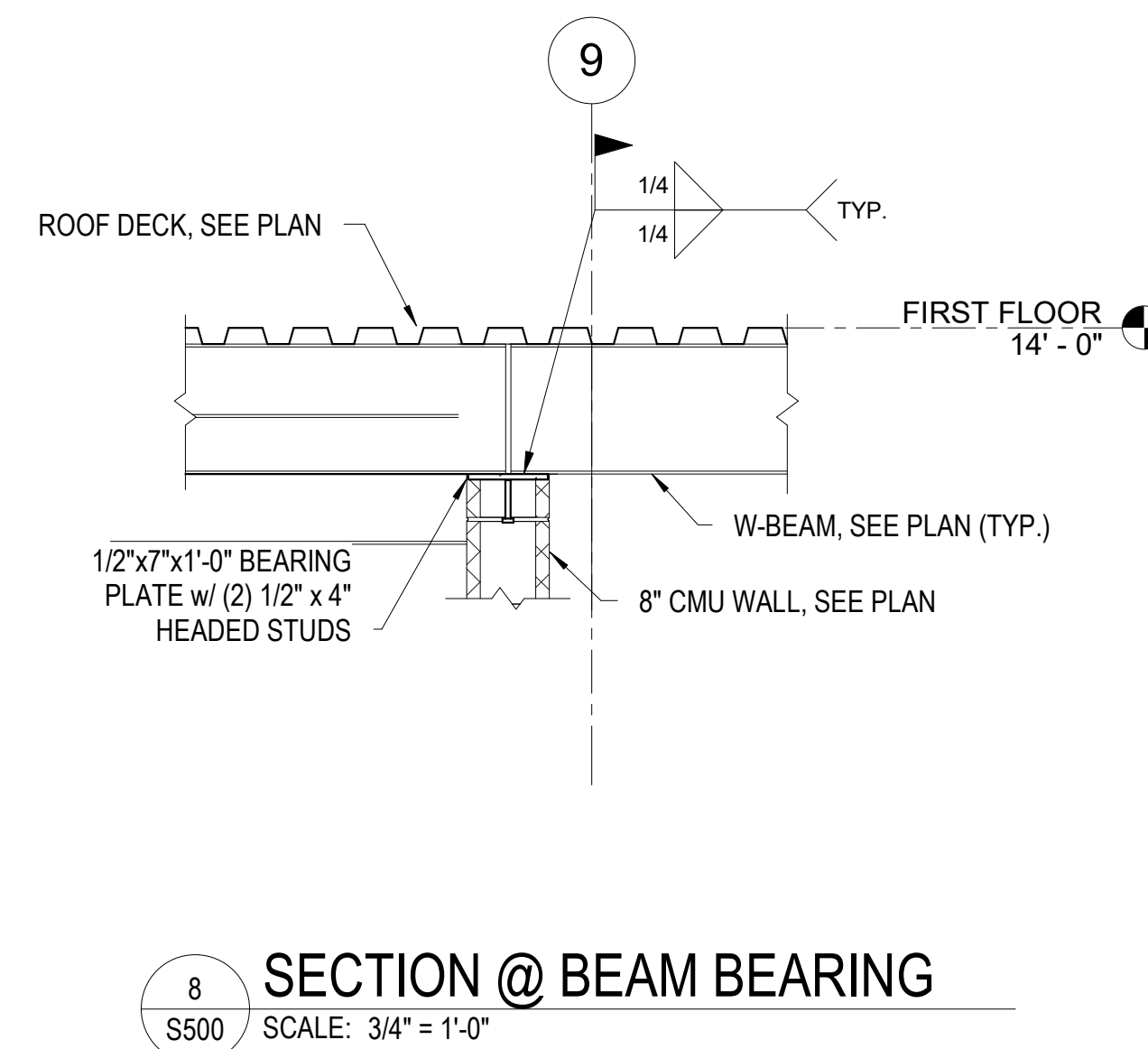
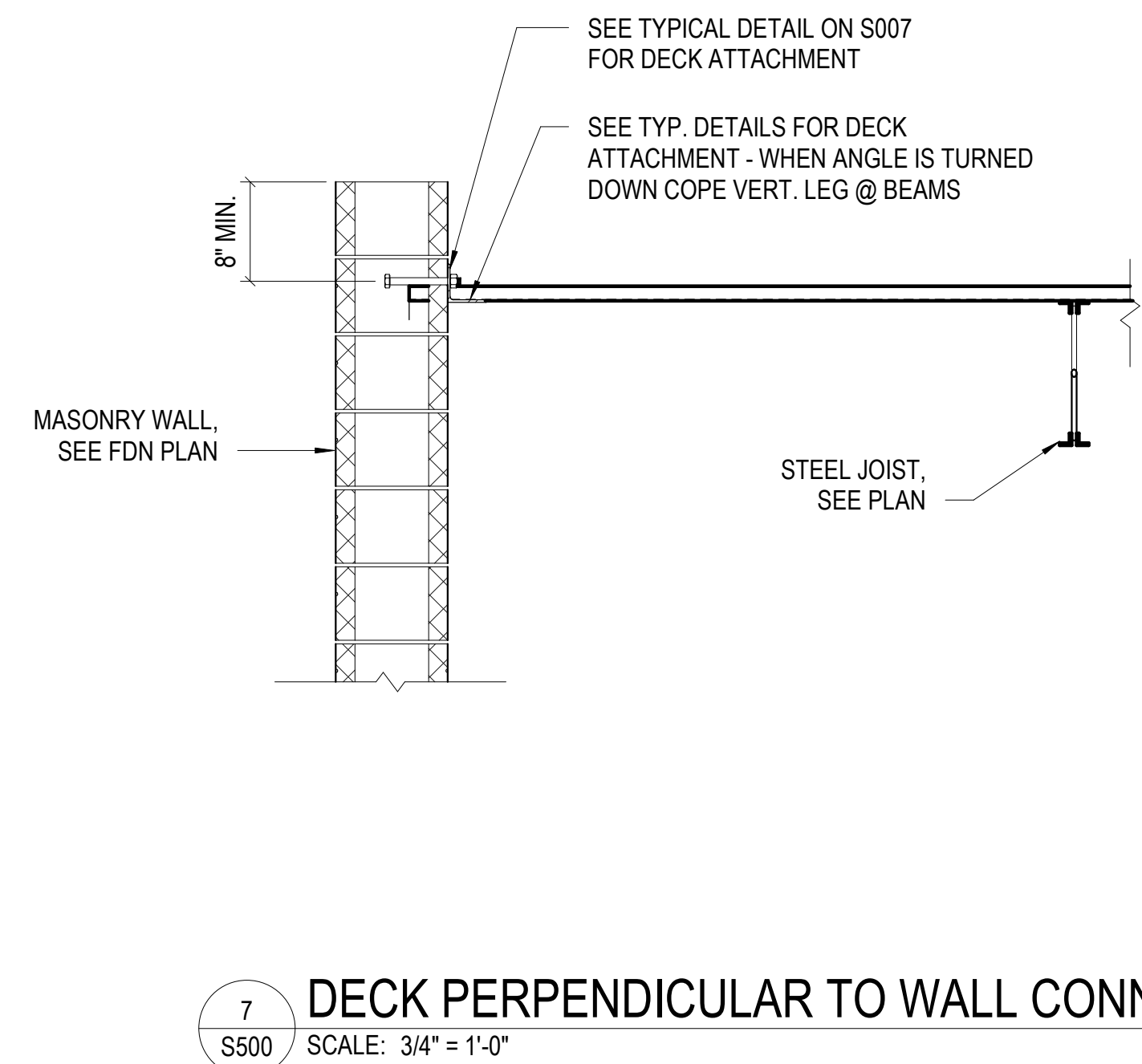
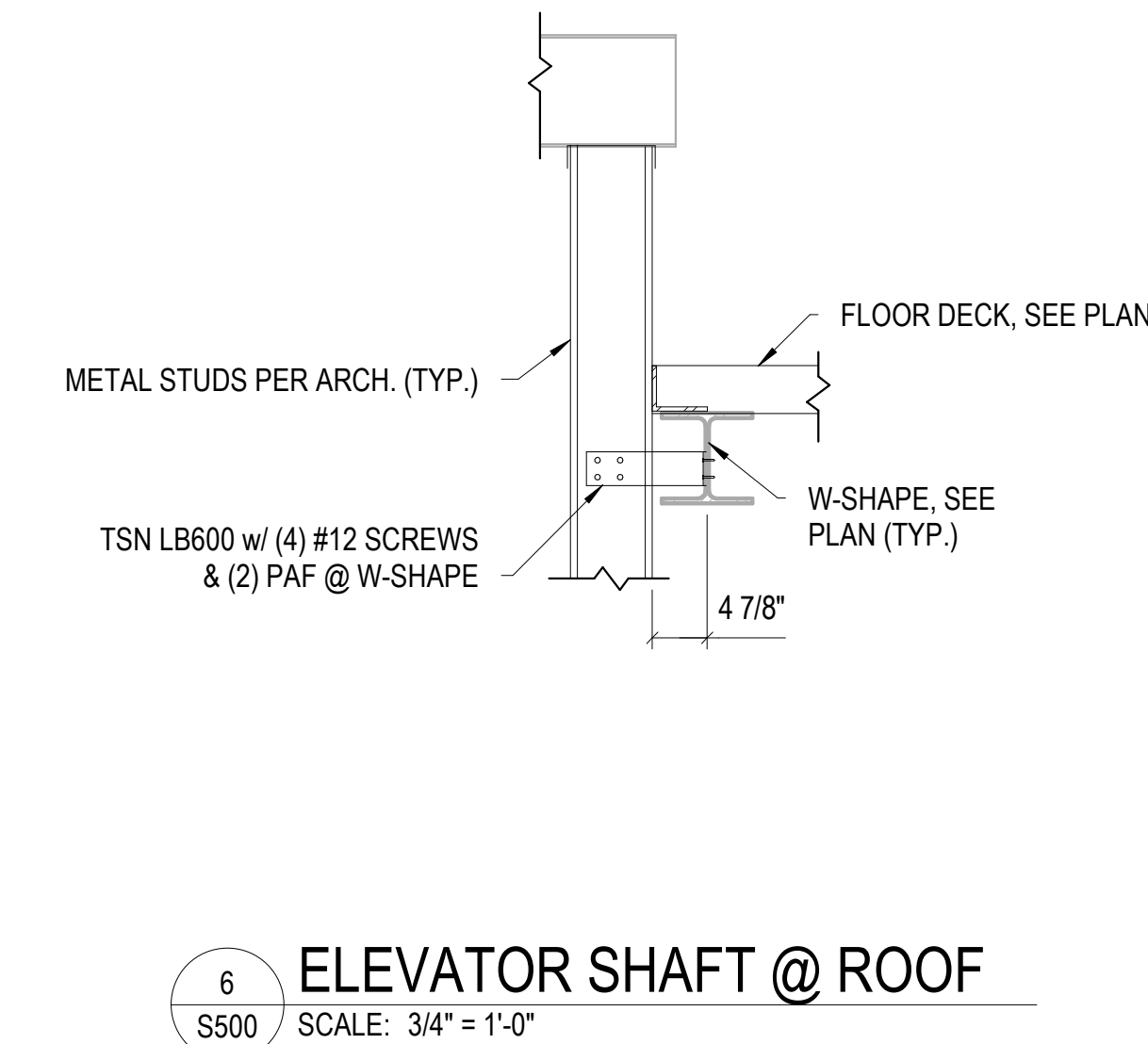
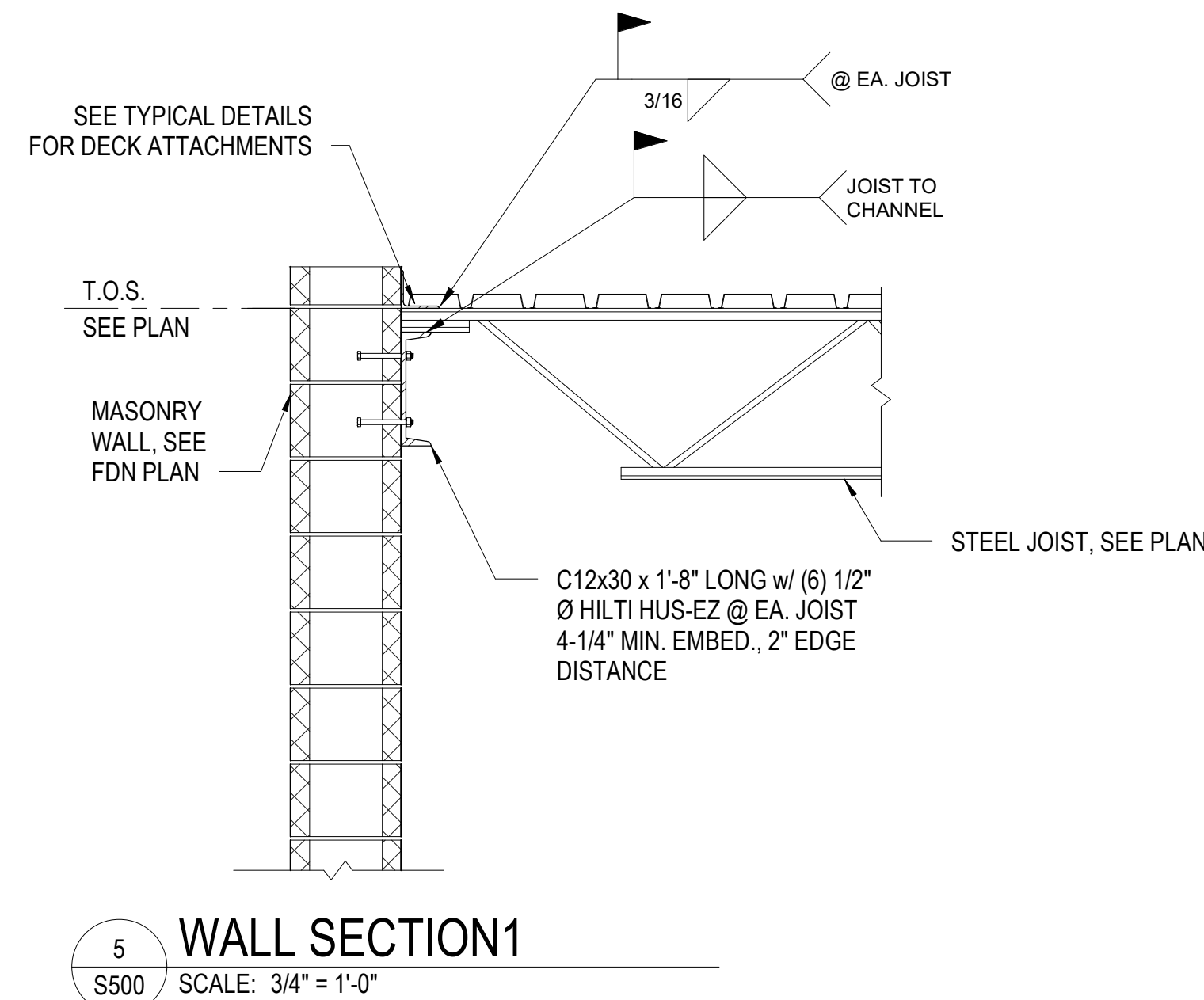
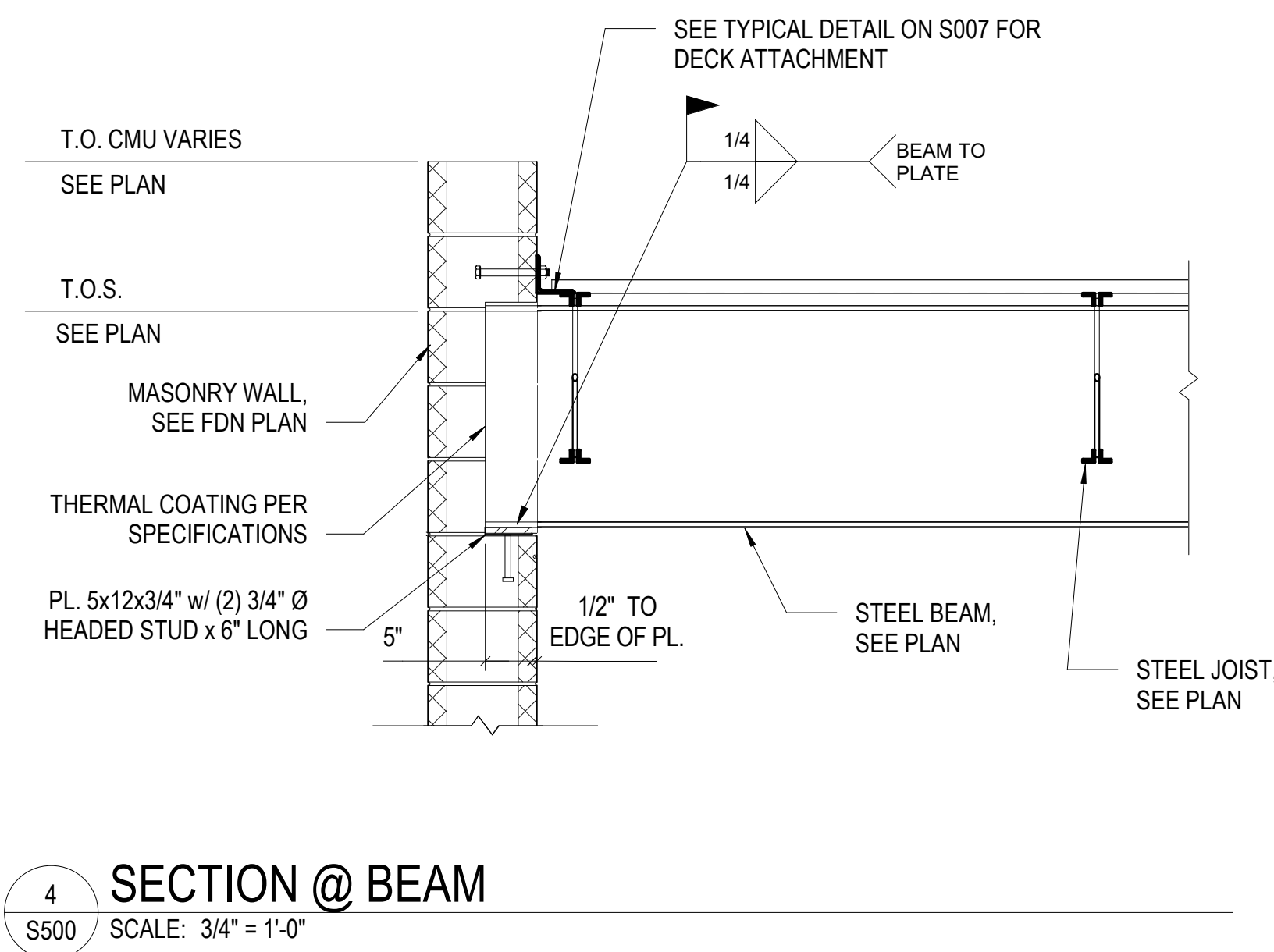
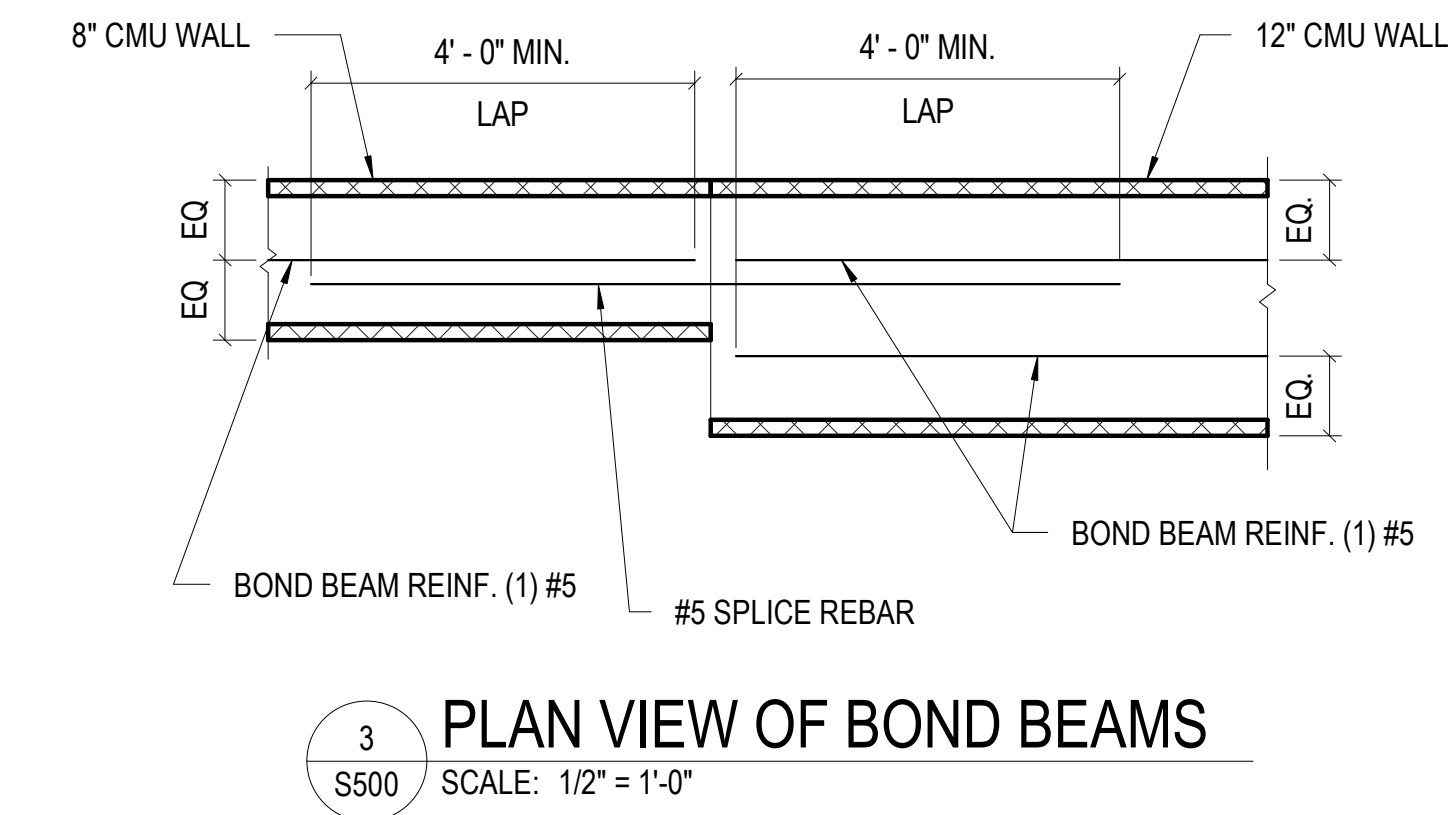
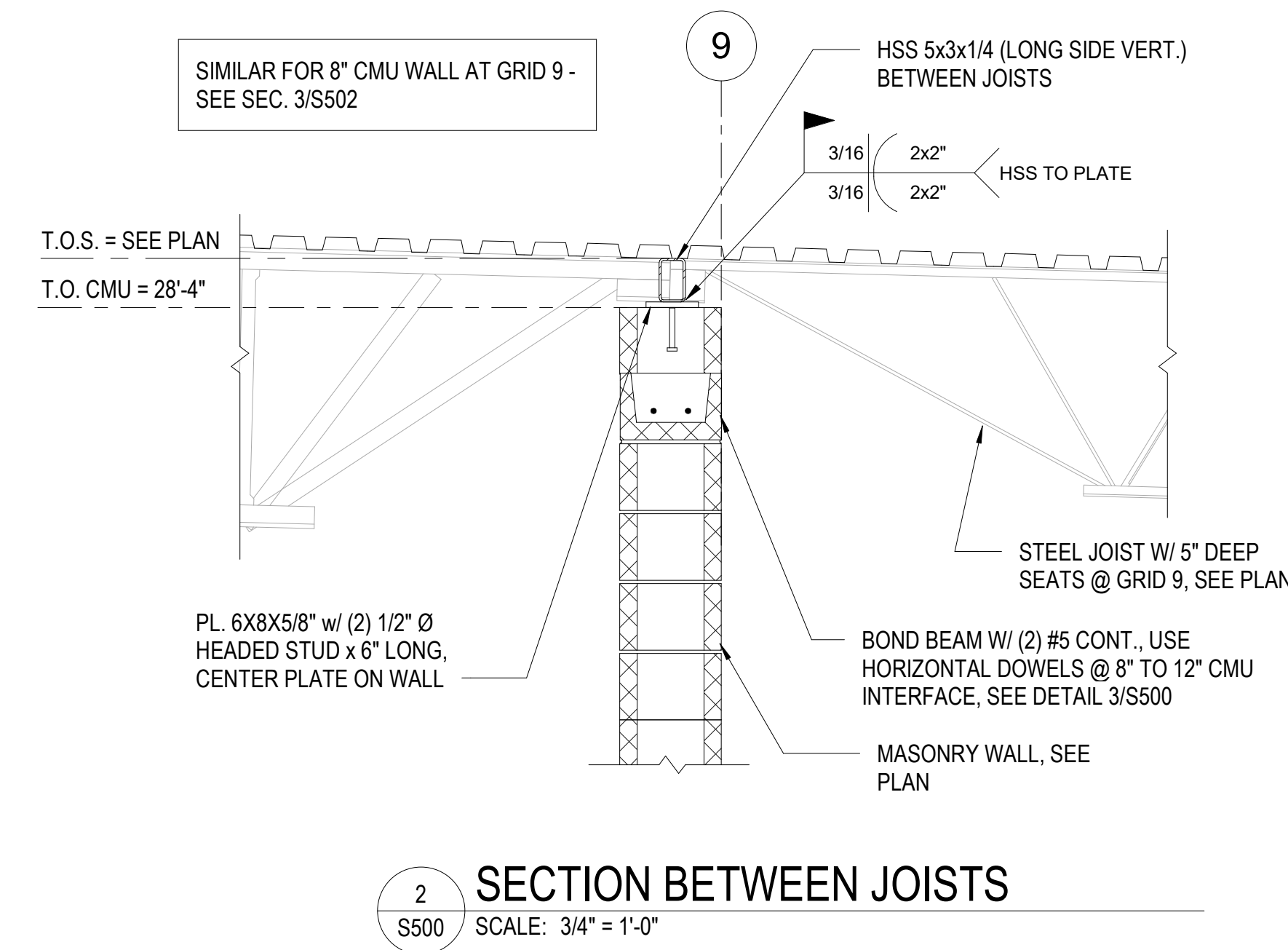
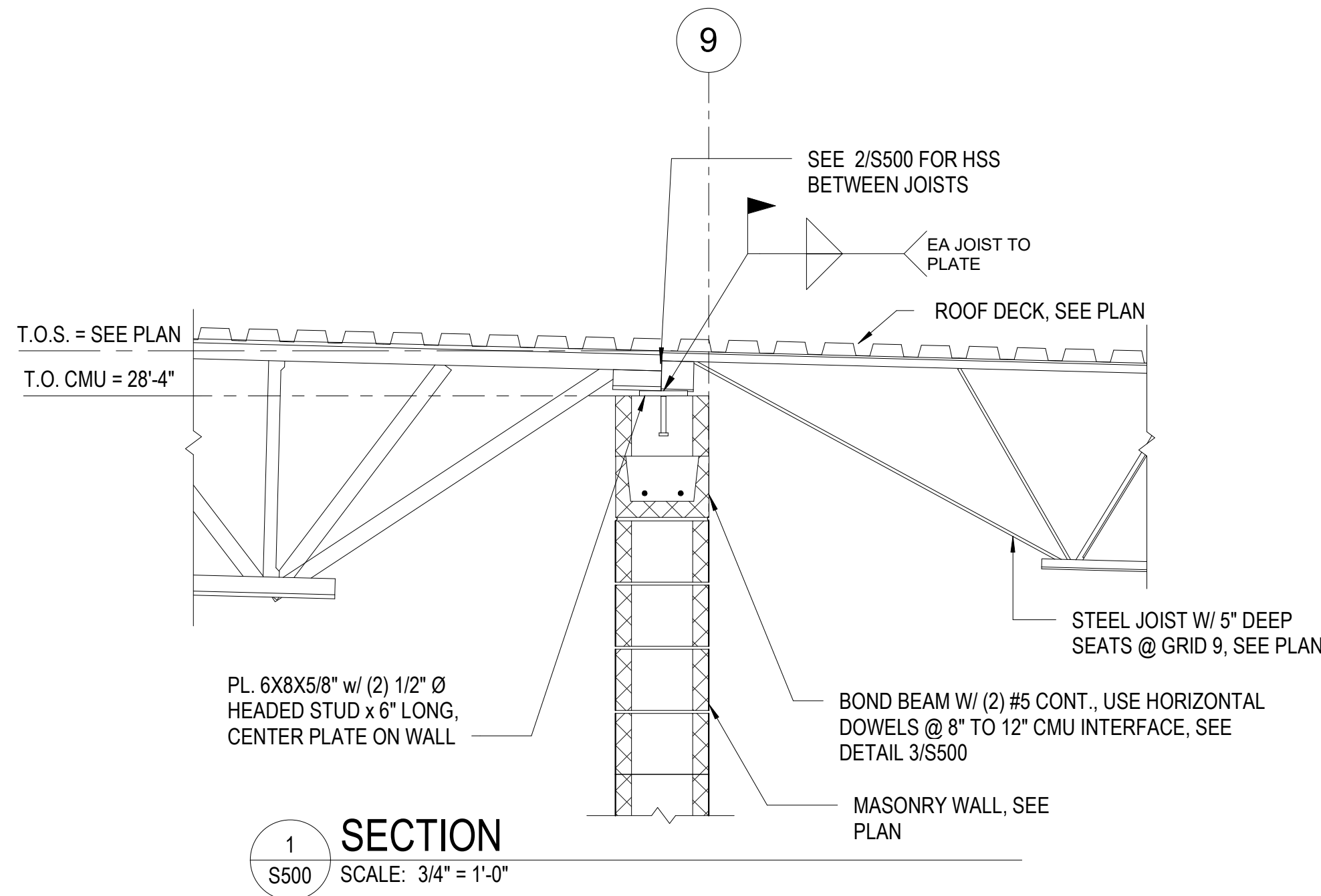
A-A



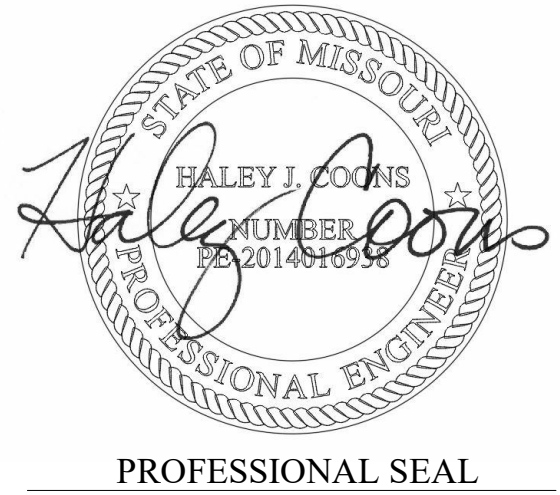
7 HANGER ROD SECTION
S401 SCALE: 1 1/2" = 1'-0"



8 CONNECTION @ COL.
S401 SCALE: 1" = 1'-0"



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DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: JYI
CHECKED BY: IMC
DESIGNED BY: _____

SHEET TITLE:
**ROOF FRAMING
DETAILS**

SHEET NUMBER:

S500

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05/03/2024



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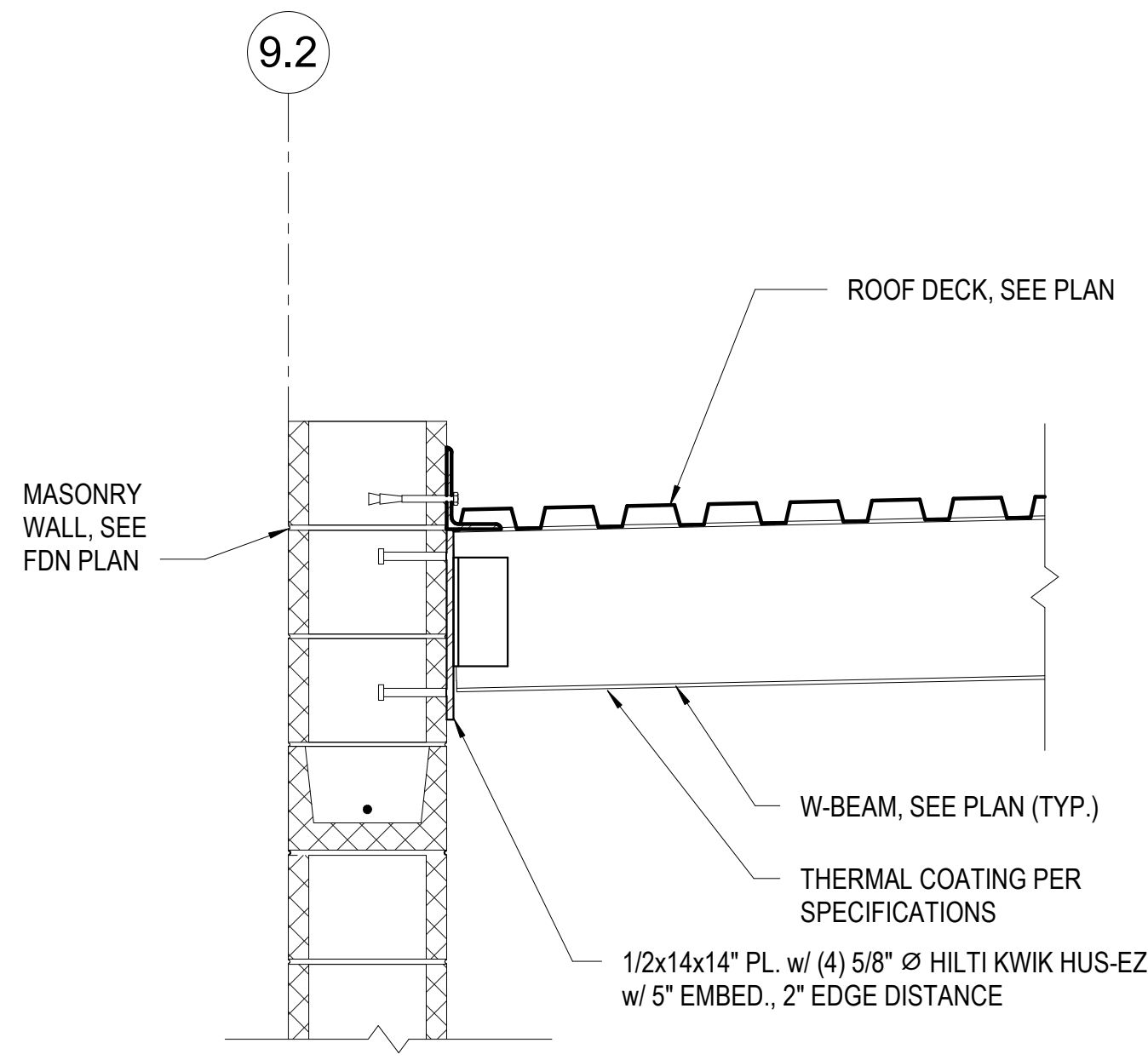
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DRAWN BY: JYI
CHECKED BY: IMC
DESIGNED BY: Designer

SHEET TITLE:
**ROOF FRAMING
DETAILS**

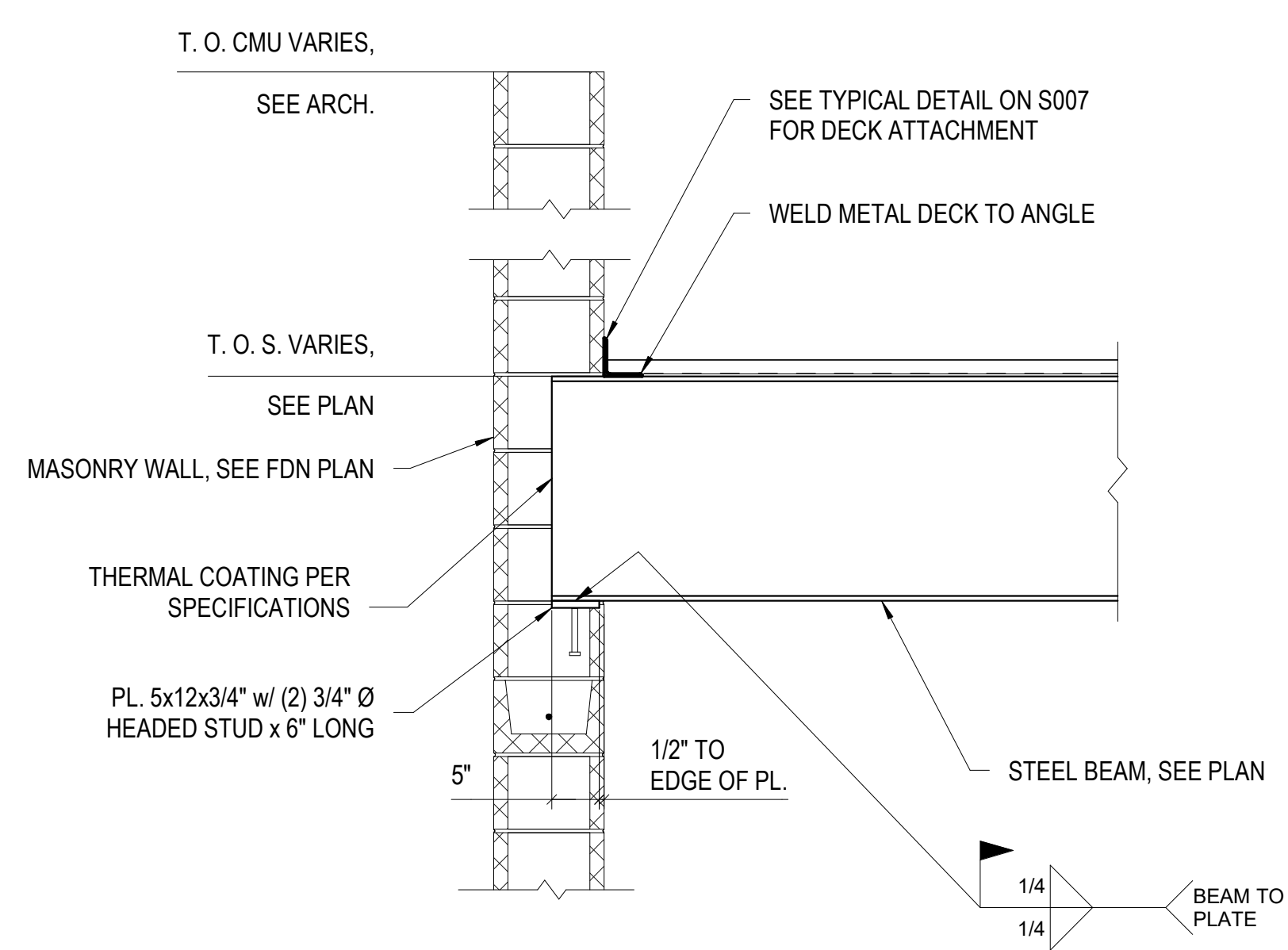
SHEET NUMBER:

S501

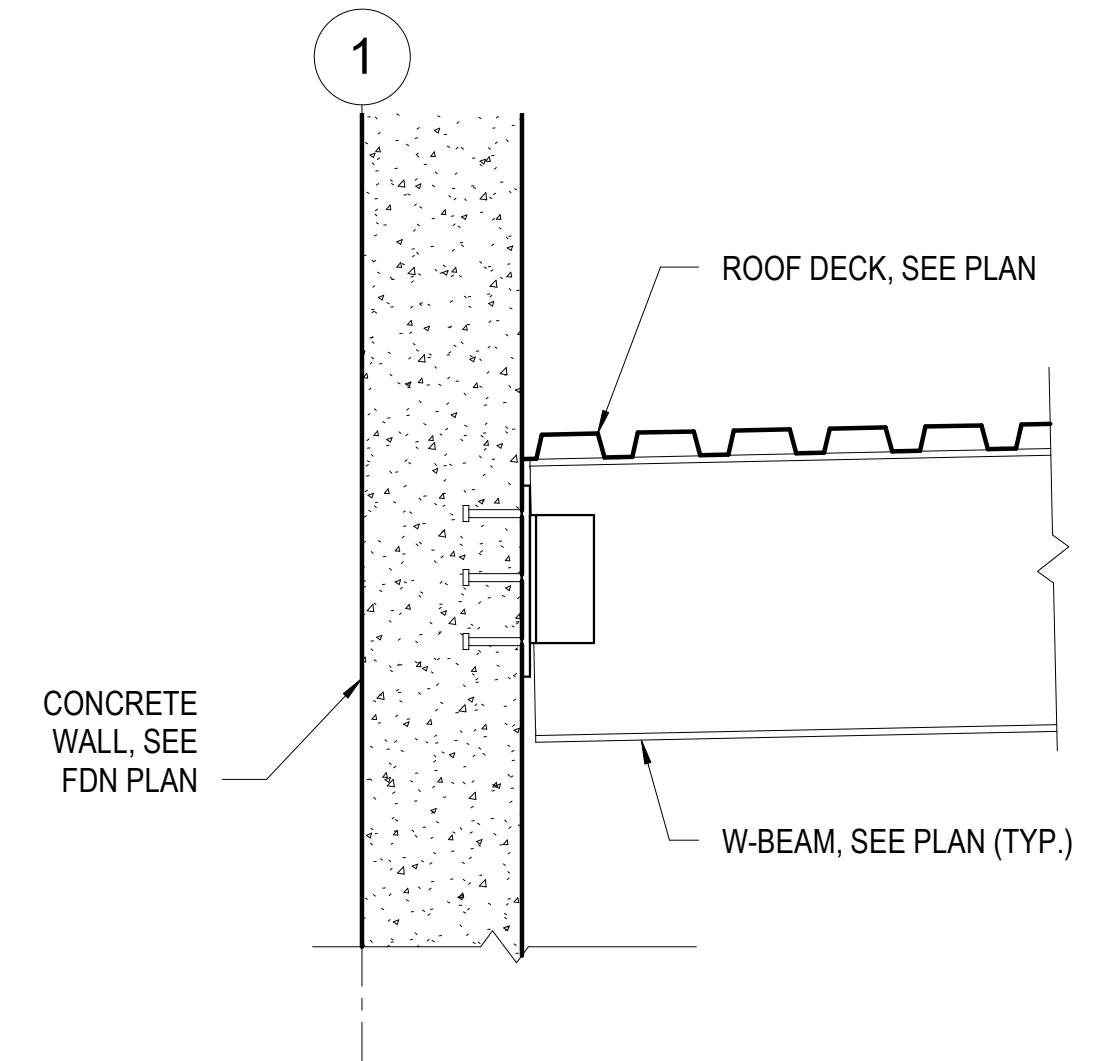
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05/03/2024



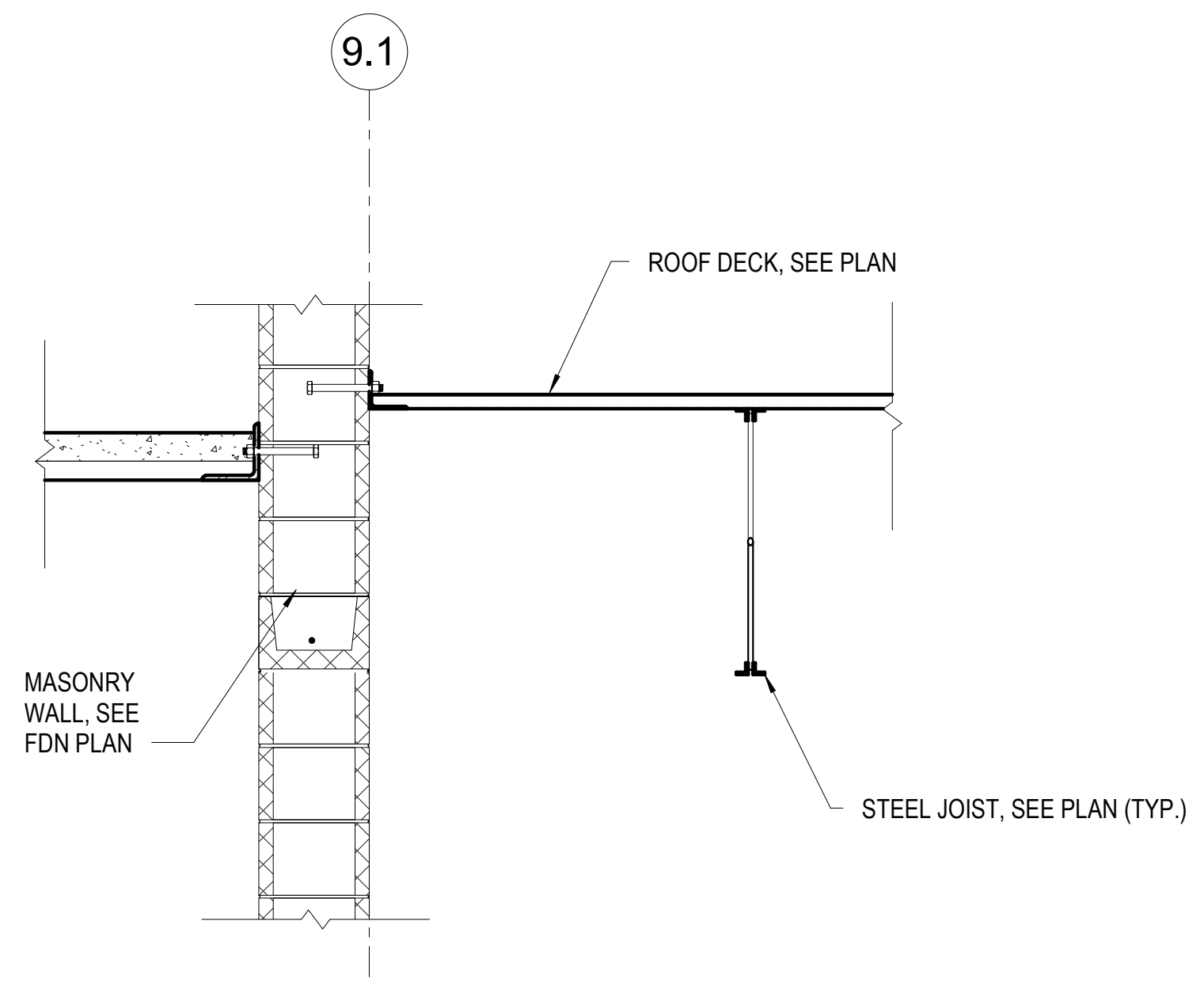
1 SECTION
S501 SCALE: 1" = 1'-0"



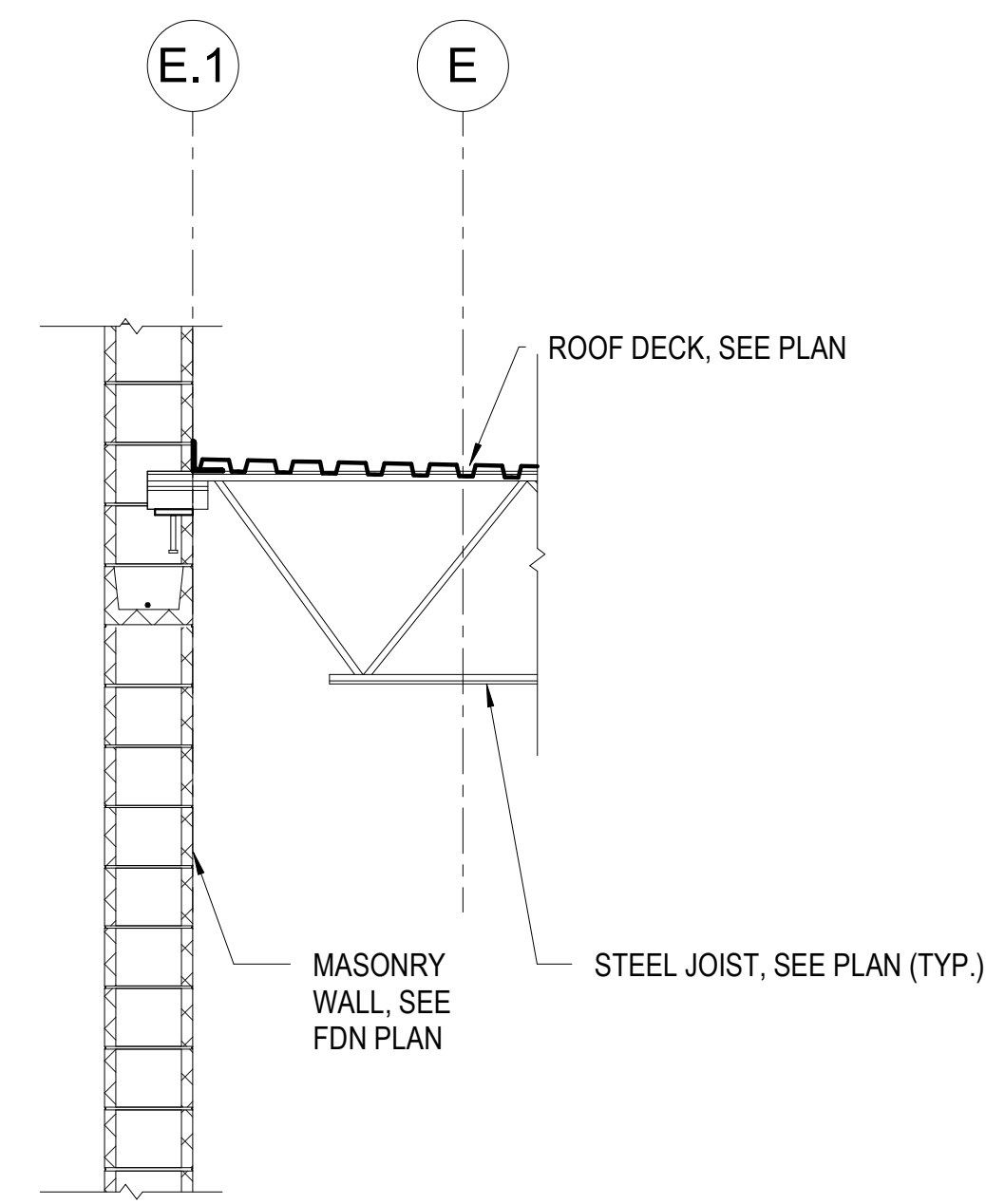
2 SECTION
S501 SCALE: 3/4" = 1'-0"



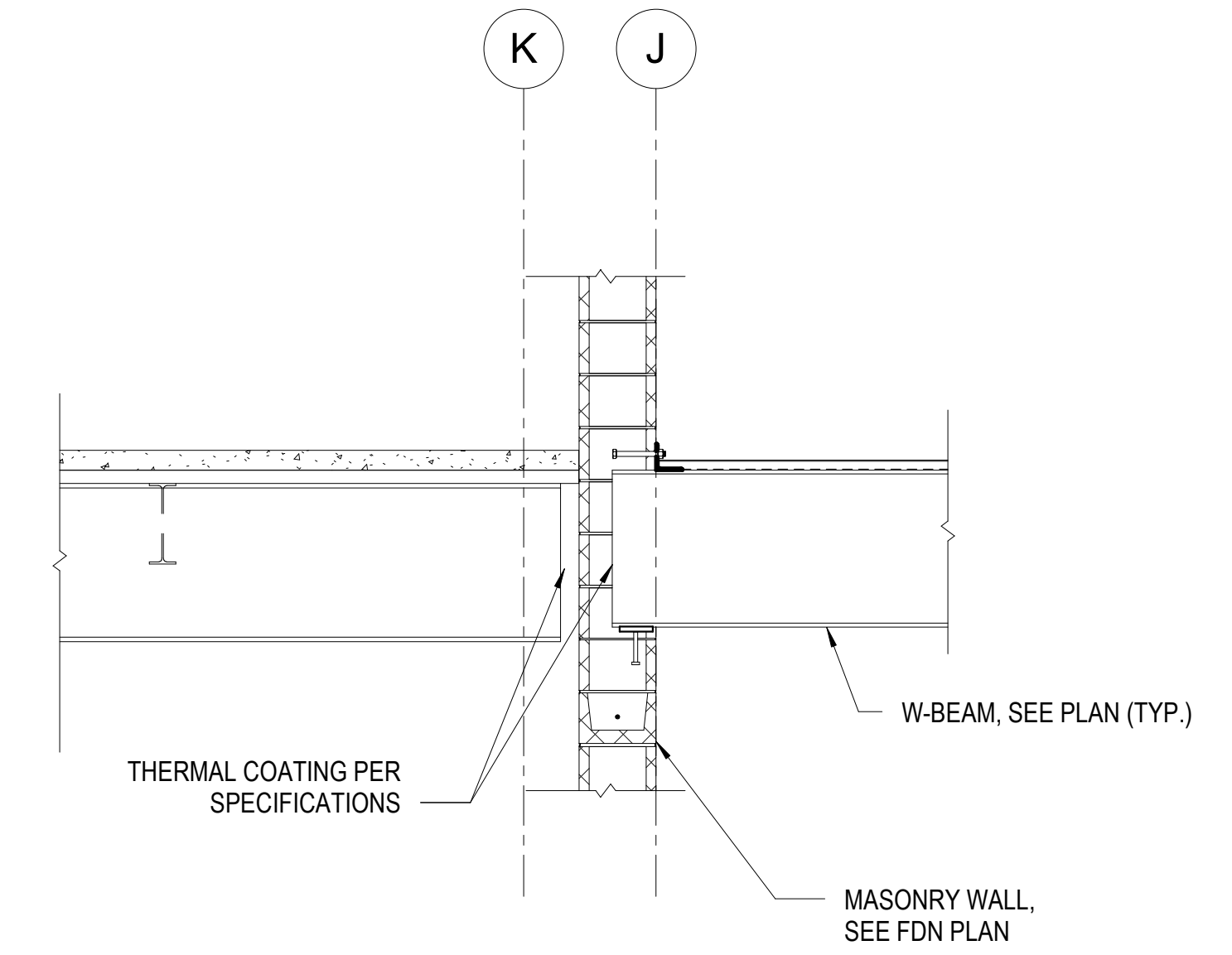
4 SECTION
S501 SCALE: 1" = 1'-0"



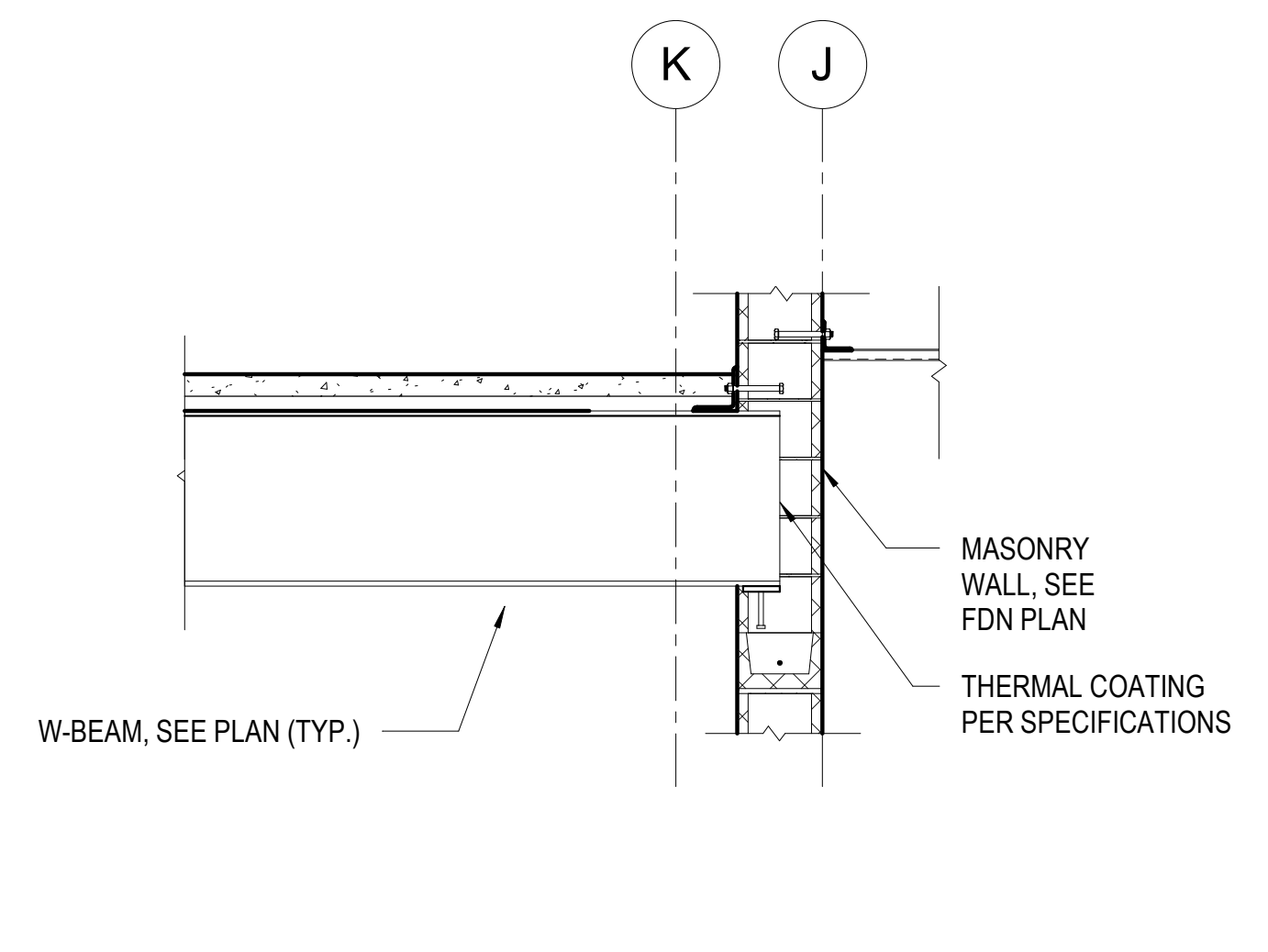
5 SECTION
S501 SCALE: 3/4" = 1'-0"



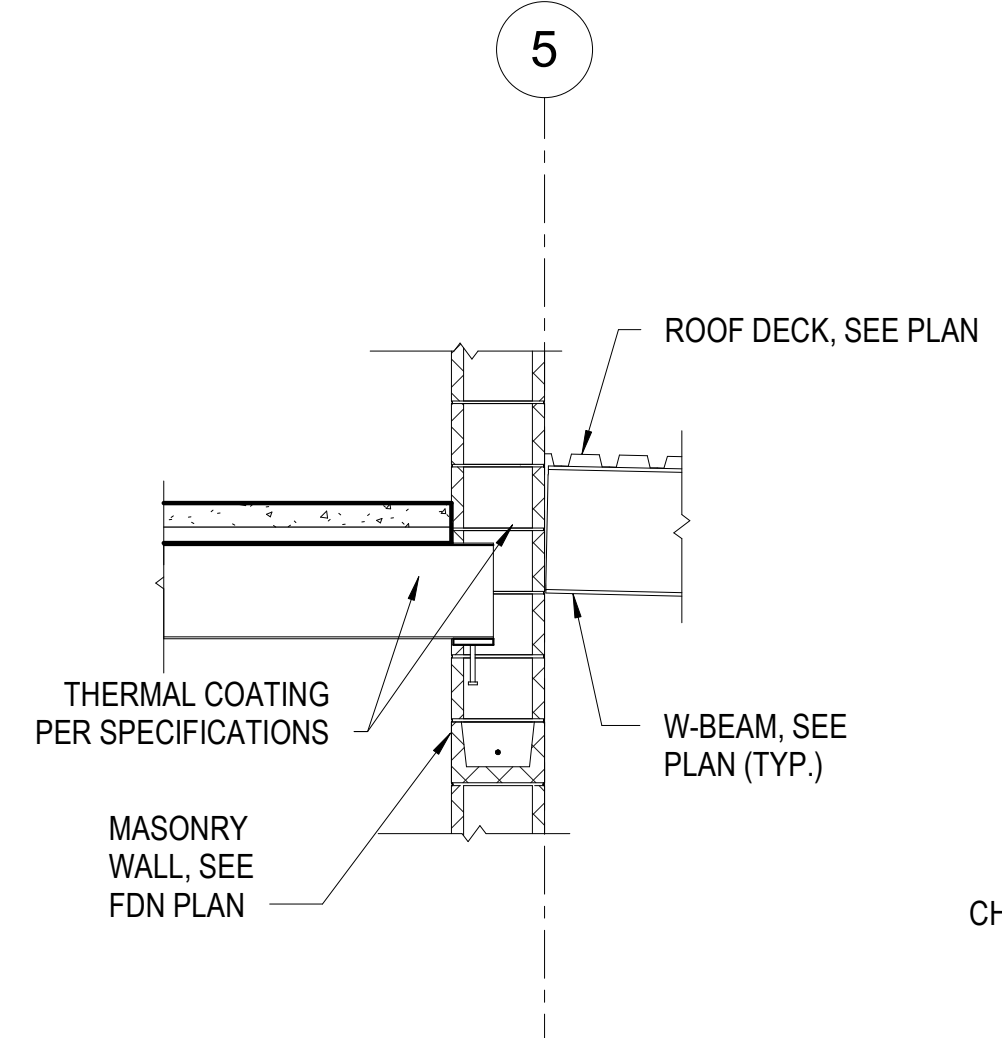
6 SECTION
S501 SCALE: 1/2" = 1'-0"



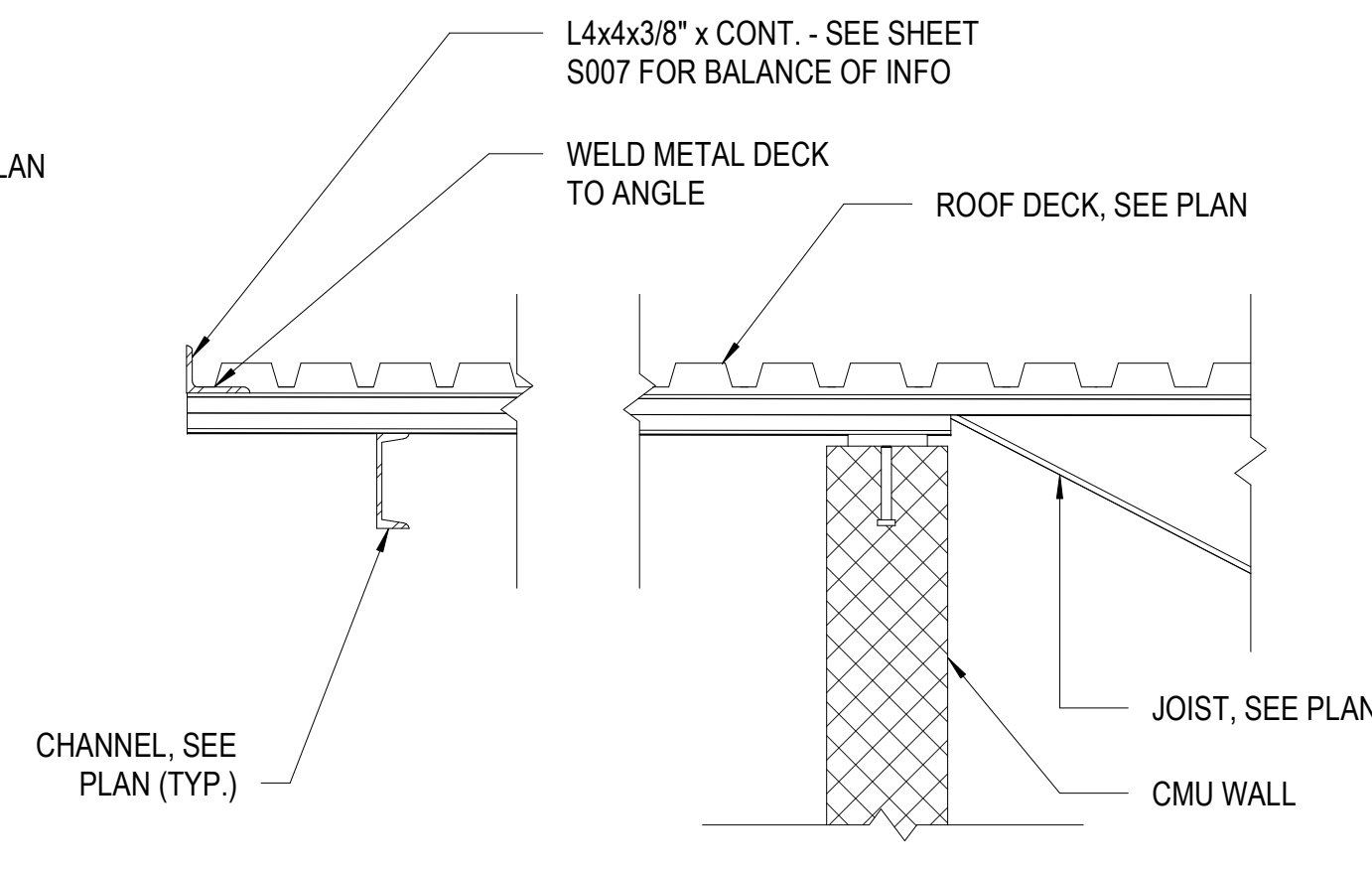
7 SECTION
S501 SCALE: 1/2" = 1'-0"



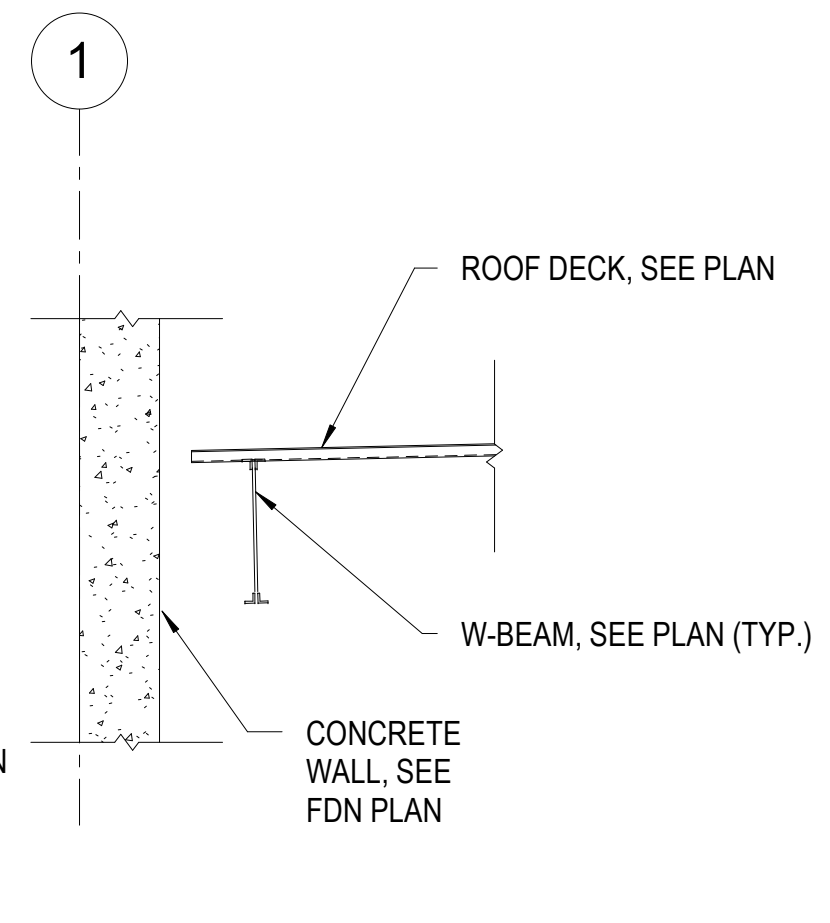
8 SECTION
S501 SCALE: 1/2" = 1'-0"



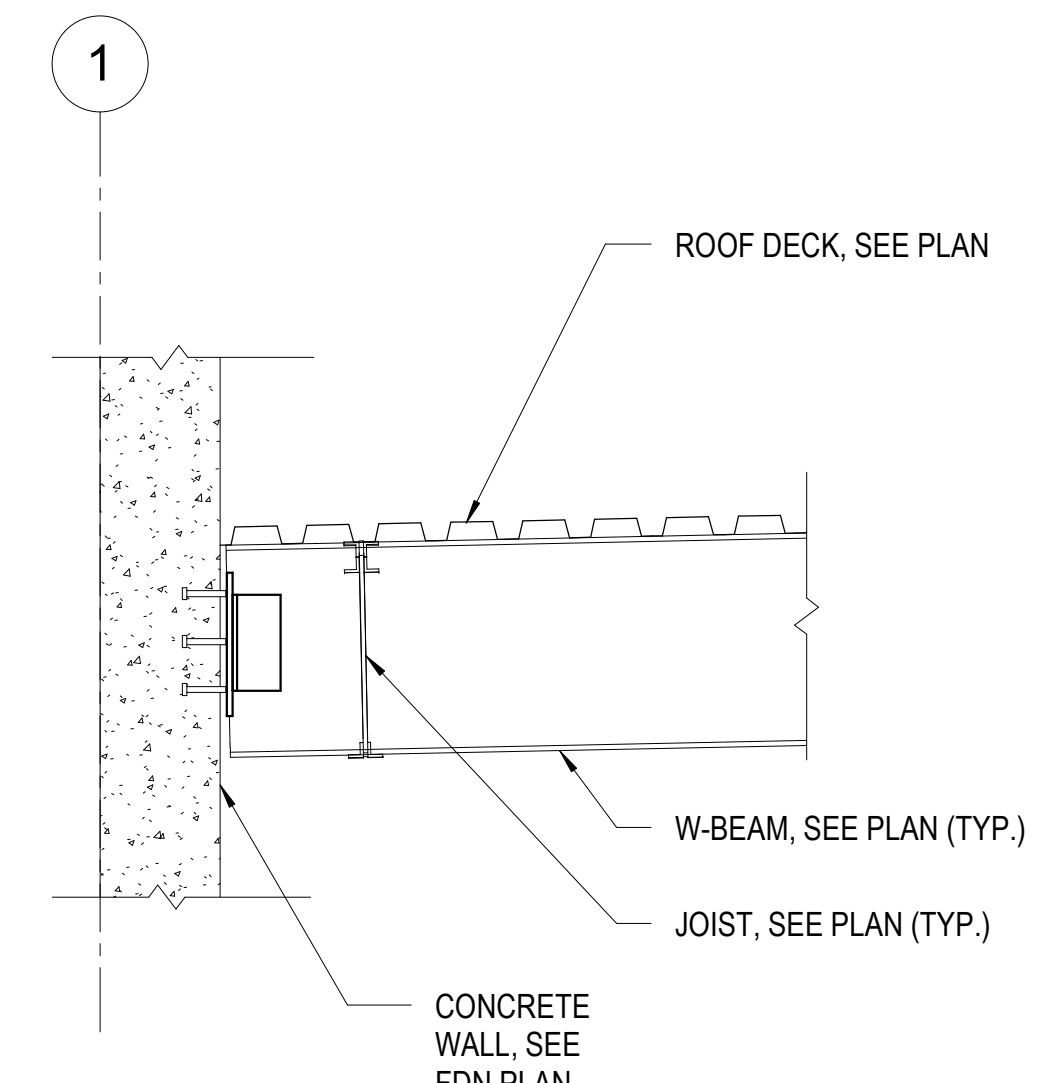
9 SECTION
S501 SCALE: 1/2" = 1'-0"



10 SECTION
S501 SCALE: 1" = 1'-0"



11 SECTION
S501 SCALE: 1/2" = 1'-0"



12 SECTION
S501 SCALE: 3/4" = 1'-0"



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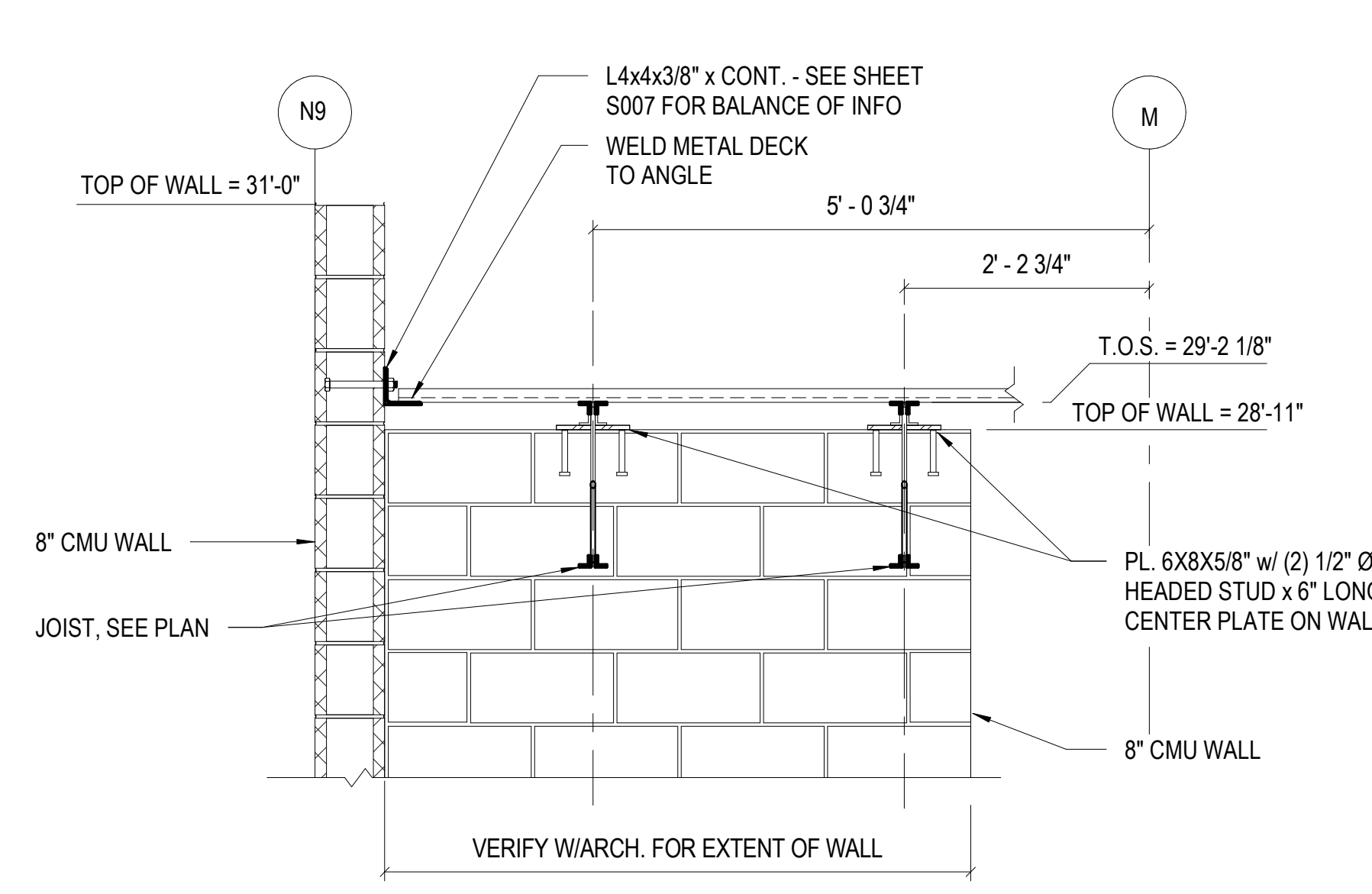
CAD DWG FILE:
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
**ROOF FRAMING
DETAILS**

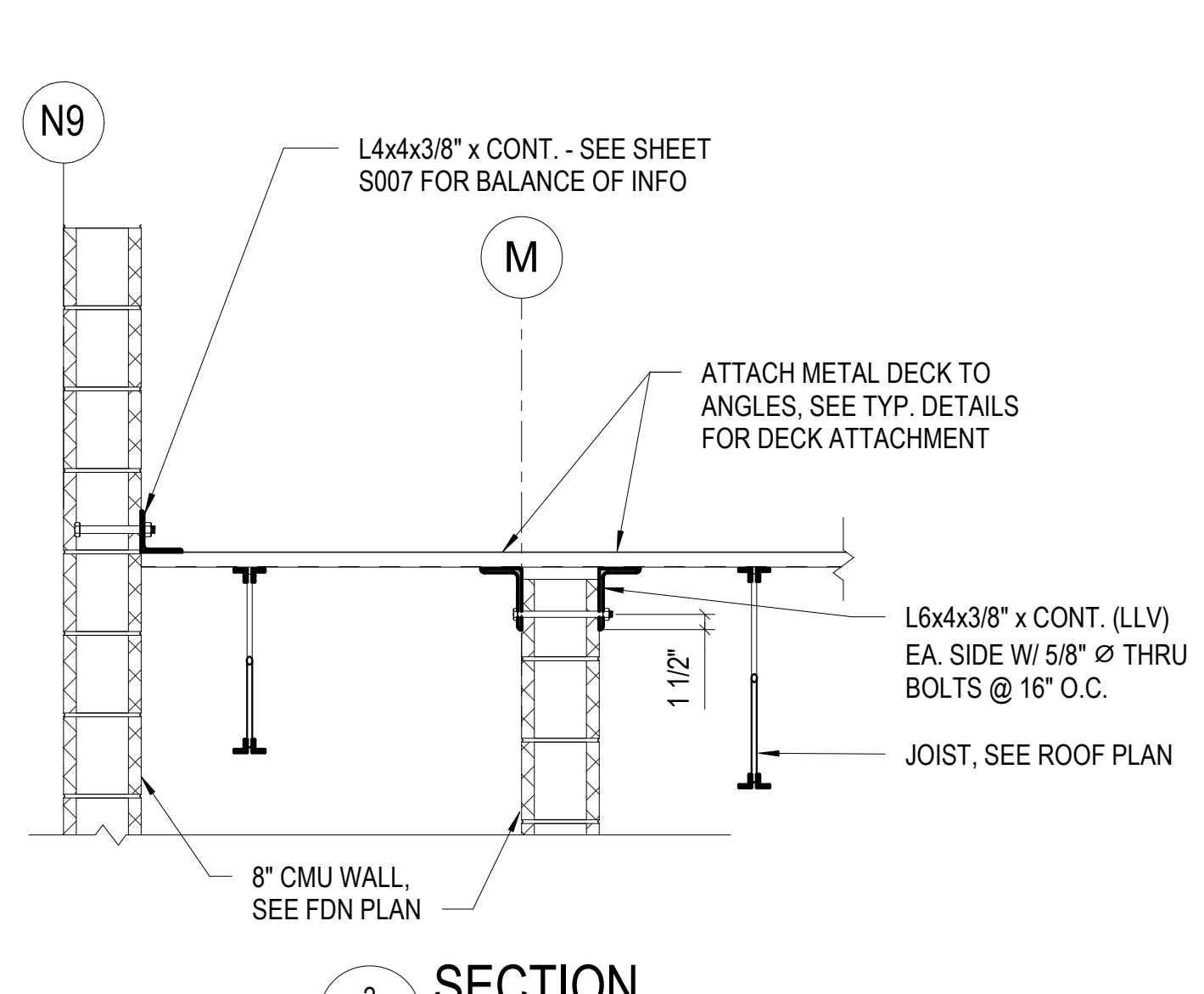
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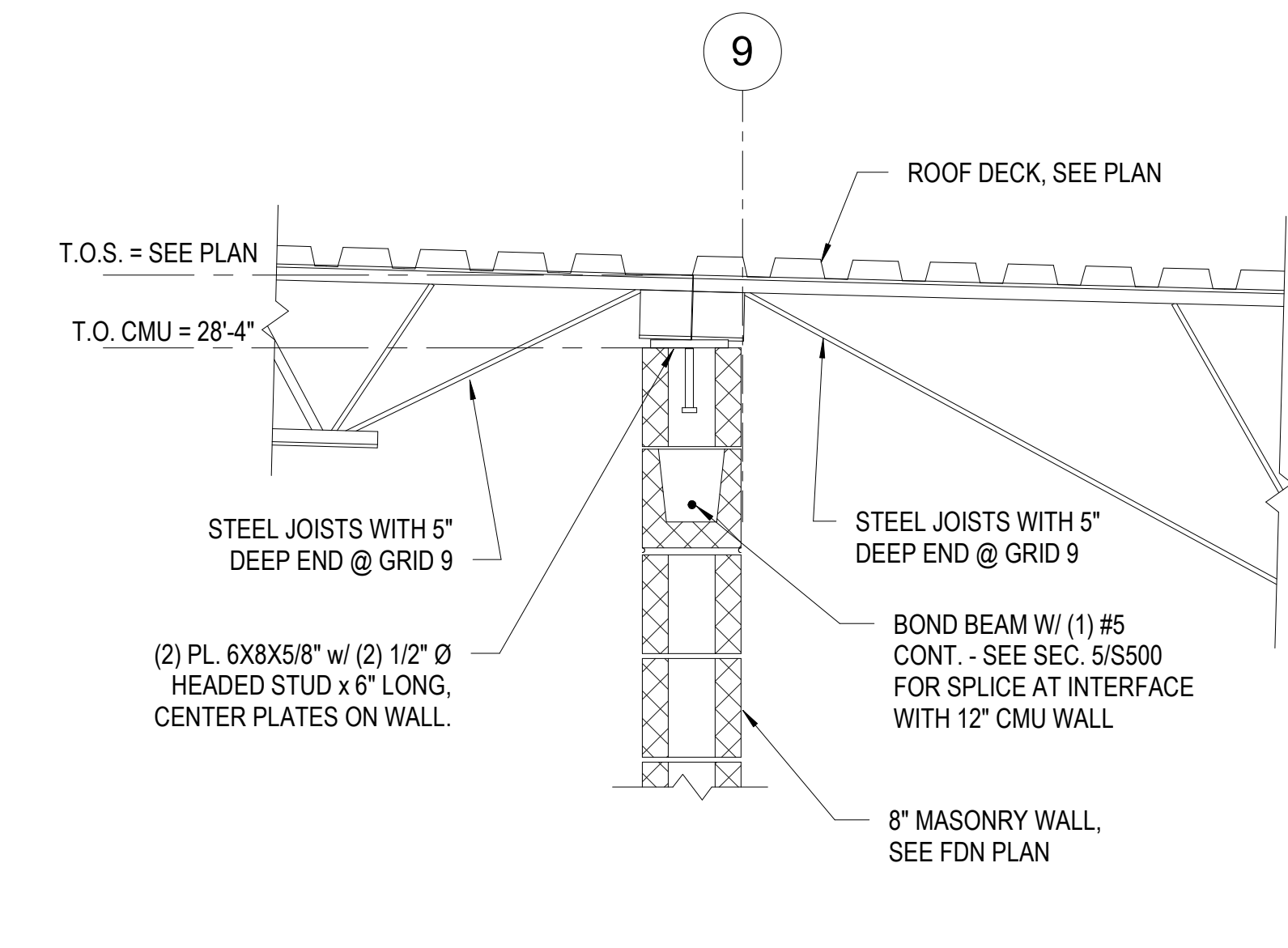
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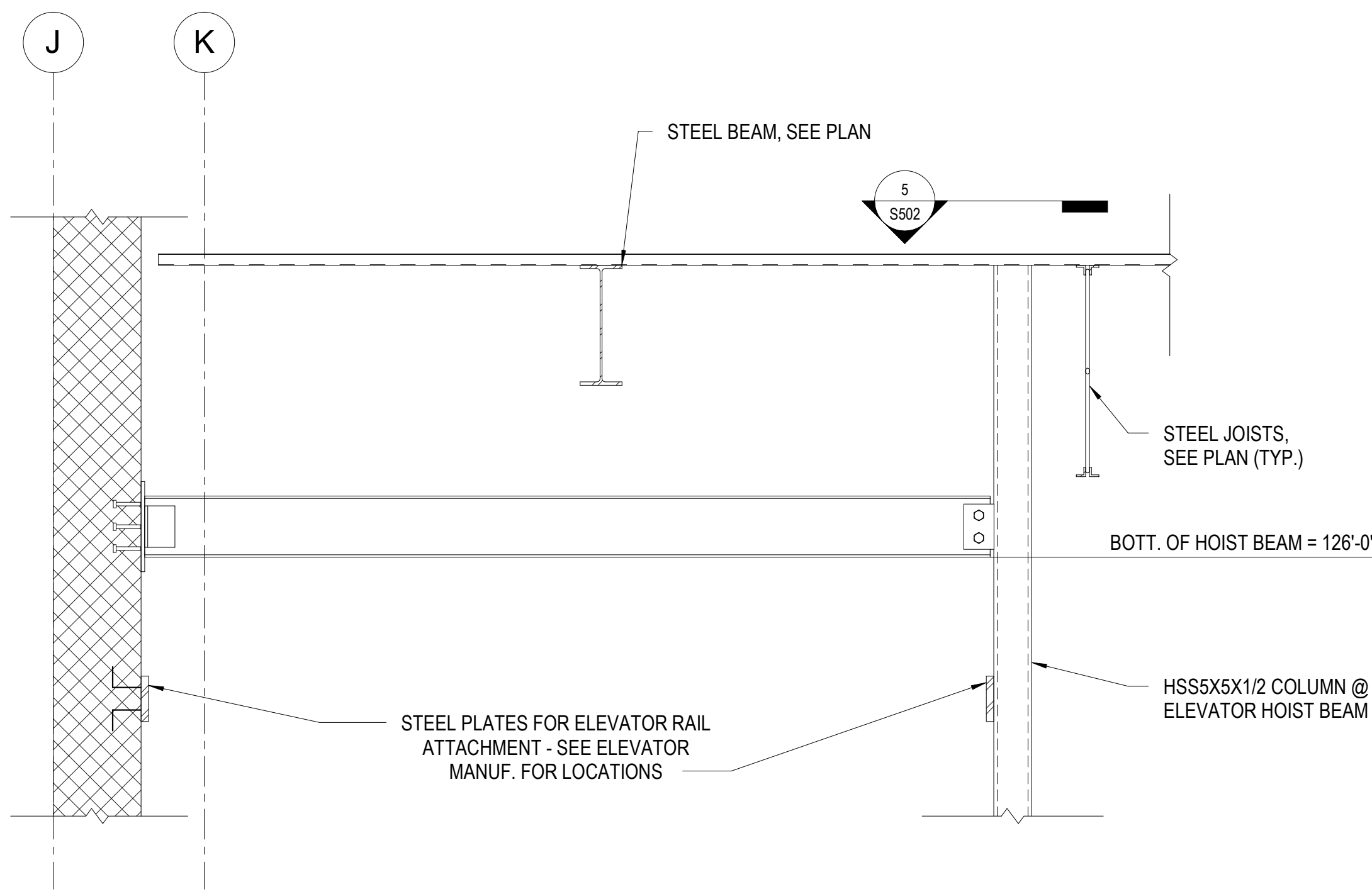
1 SECTION
S502 SCALE: 3/4" = 1'-0"



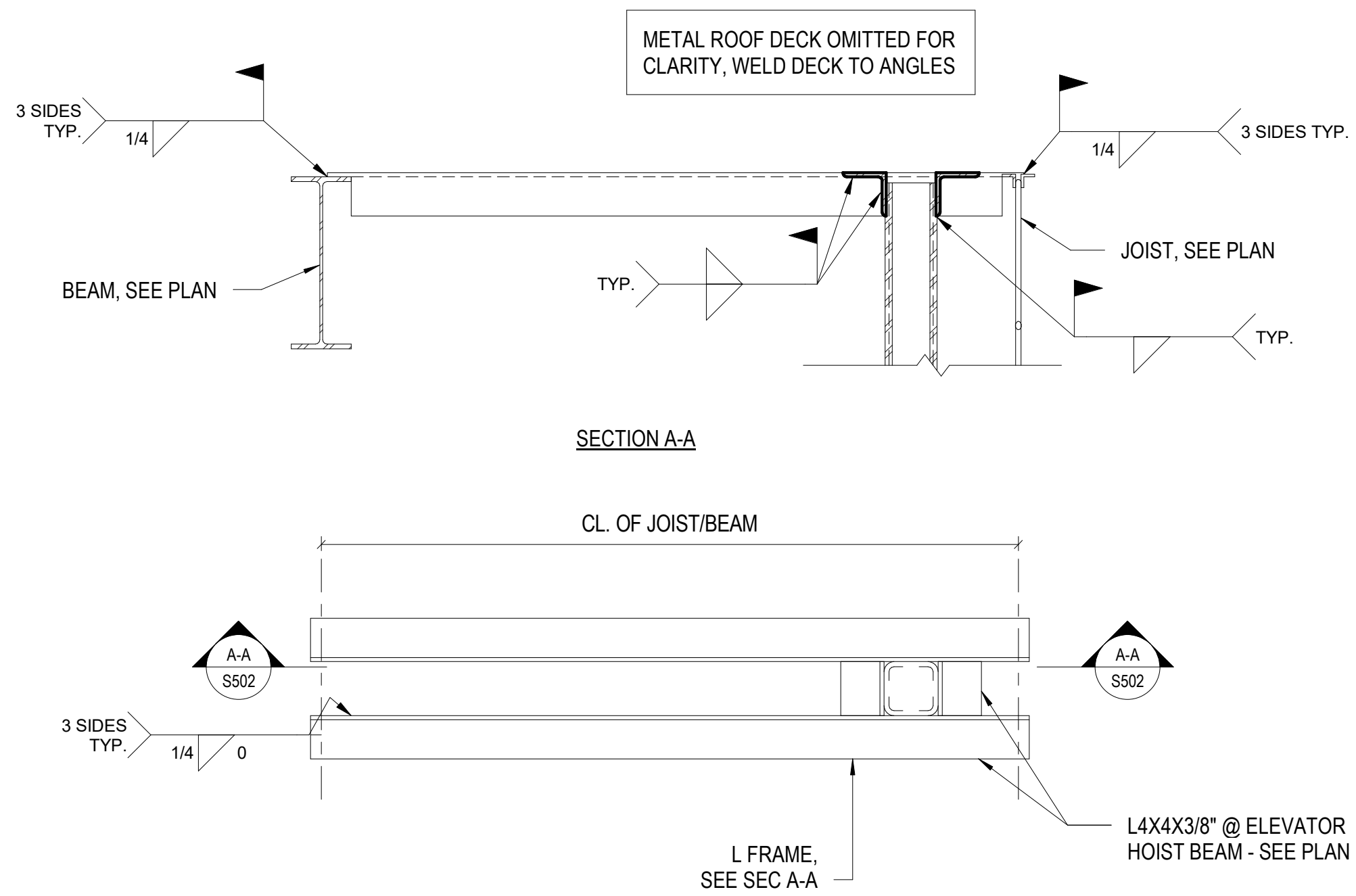
2 SECTION
S502 SCALE: 3/4" = 1'-0"



3 SECTION
S502 SCALE: 1" = 1'-0"



4 HOIST BEAM ELEVATION
S502 SCALE: 3/4" = 1'-0"



5 COL. HOIST BRACING
S502 SCALE: 1" = 1'-0"



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REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: KZM
CHECKED BY: HJC
DESIGNED BY: JYI

SHEET TITLE:
STEEL DETAILS

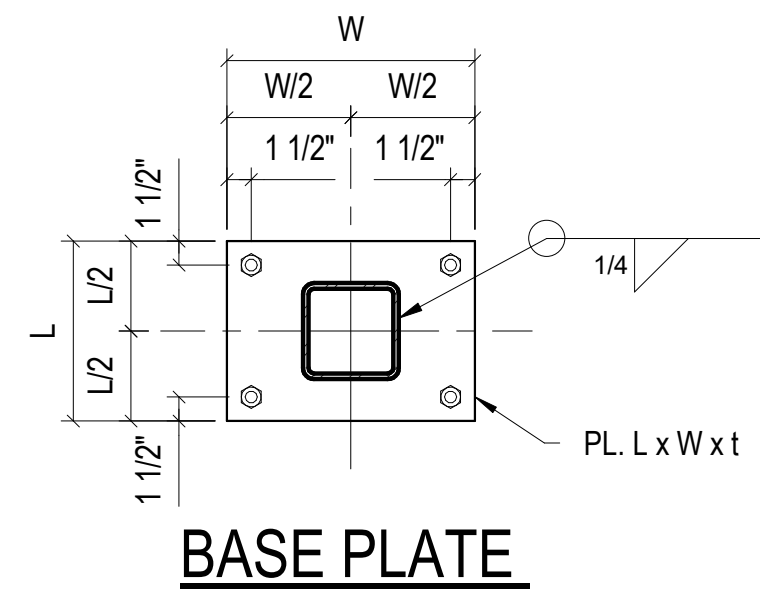
SHEET NUMBER:

S600

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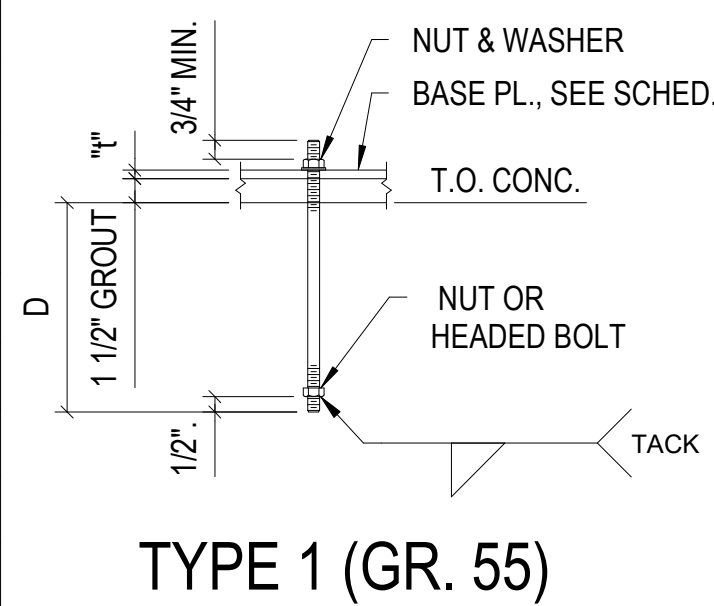
ROOF													ROOF
SEE ROOF FRAMING PLAN FOR T.O.S.													SEE ROOF FRAMING PLAN FOR T.O.S.
FIRST FLOOR		HSS5X5X1/2											FIRST FLOOR
14' - 0"													14' - 0"
MONUMENT SIGN													MONUMENT SIGN
4' - 8 1/2"													4' - 8 1/2"
T.O. SLAB													T.O. SLAB
0' - 0"													0' - 0"
BASE PLATE MARK	BP2 BP1 @ F-7 BP3 @ J-7	BP7	BP1	BP2	BP2	BP6	BP5	BP2	BP4	BP4			
Column Locations	D(-7, E-7, F-7, H-7, J-7)	D(-2' - 6 3/4")-8(-6' - 8 1/4"), F(-8' - 5 5/16")-8(-6' - 8 1/4")	F-1-7	G-3	H-3	K(8' - 11 1/8")-9(-8' - 9 1/8")	L-2, L-4, L-9, N-2	L-6	L-10	N-4, N-6			

COLUMN SCHEDULE
SCALE: 1/8" = 1'-0"



SCHEDULE FOR F1554 ANCHORS

BASE PLATE MARK	BASE PLATE SIZE (L x W x t)	ANCHOR SIZE	D = EMBEDMENT
BP 1	12 x 12 x 1/2"	3/4"	1'-0"
BP 2	13 x 13 x 1/2"	3/4"	1'-0"
BP 3	14 x 14 x 1/2"	3/4"	1'-0"
BP 4	15 x 15 x 1/2"	3/4"	1'-0"
BP 5	16 x 16 x 1/2"	3/4"	1'-0"
BP 6	7 x 12 x 1/2"	3/4"	9"
BP 7	5 x 10 x 1/2"	1/4"	1 1/2"



- ROD THREADED 6" AT TOP END AND 3" AT BOTT. END. 4" MIN. PROJECTION.
- SEE SPECIFIC DETAILS FOR SPECIAL EMBEDMENT LENGTHS AND ROD SIZES.
- UNLESS OTHERWISE SPECIFIED, ALL ANCHOR RODS SHALL BE GRADE 55.
- ALL NUTS SHALL BE HEAVY HEX NUTS.
- ALL WASHERS SHALL BE PER AISC TABLE 14-2.

TYPICAL BASE PL. & ANCHOR ROD DETAIL



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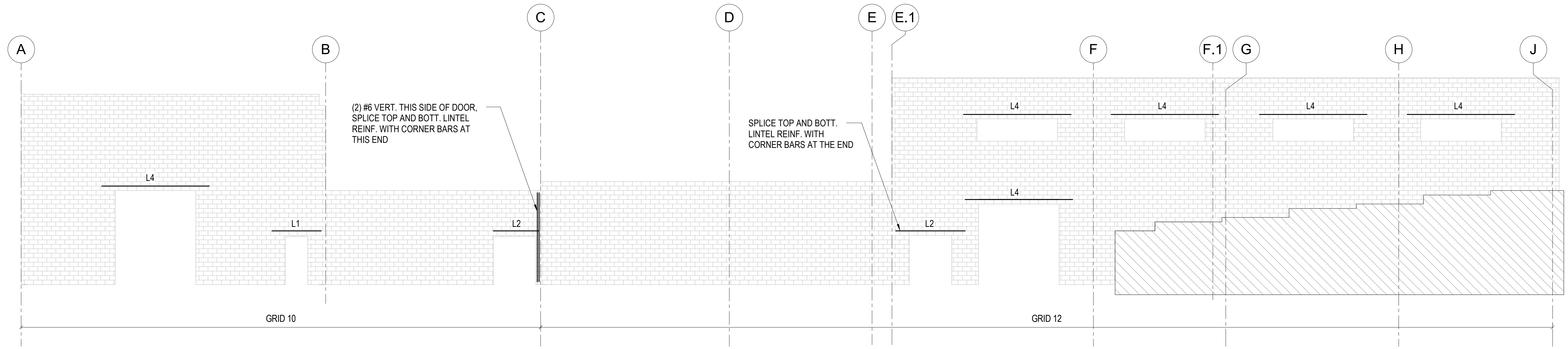
CAD DWG FILE: _____
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
**MASONRY LINTEL
ELEVATIONS**

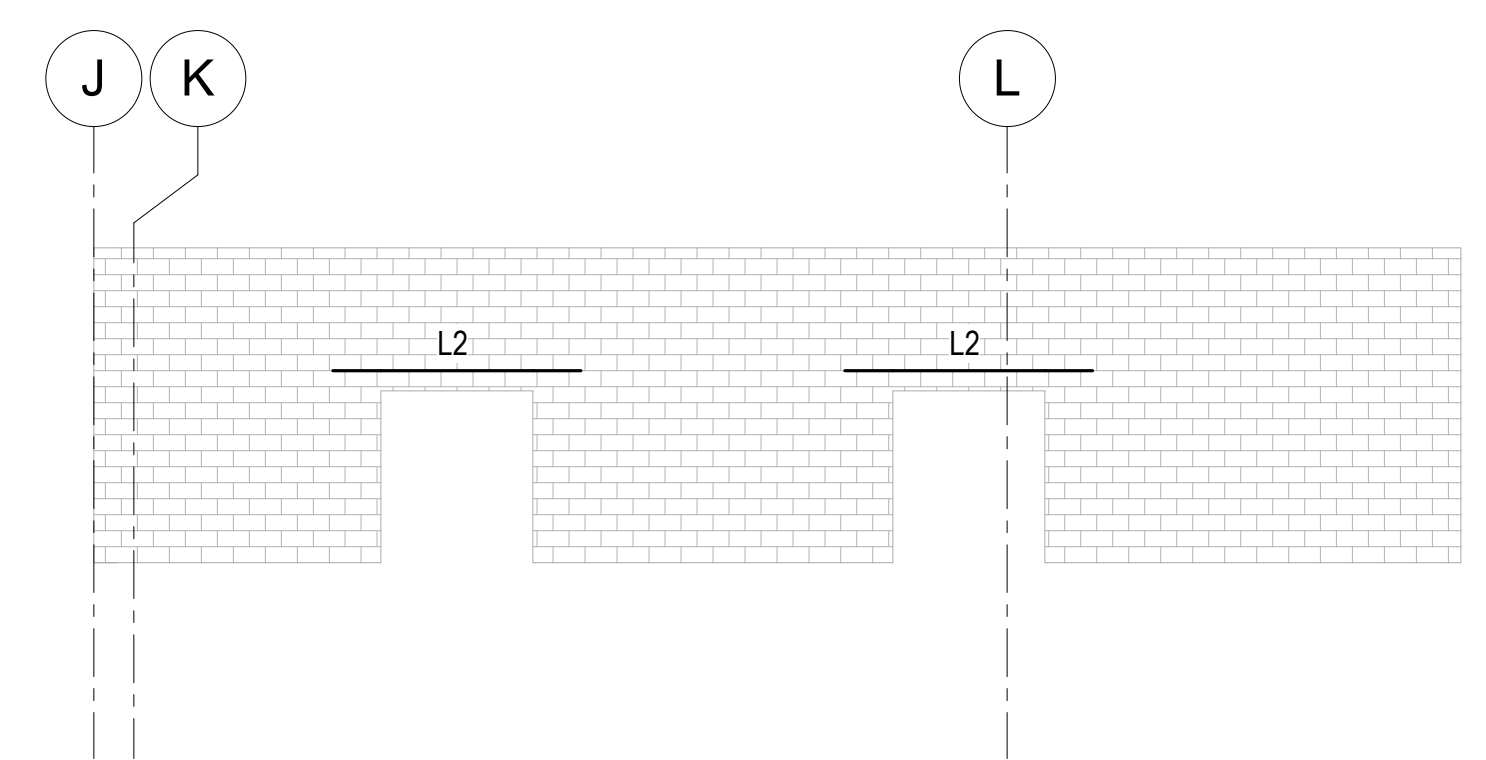
SHEET NUMBER:

S700

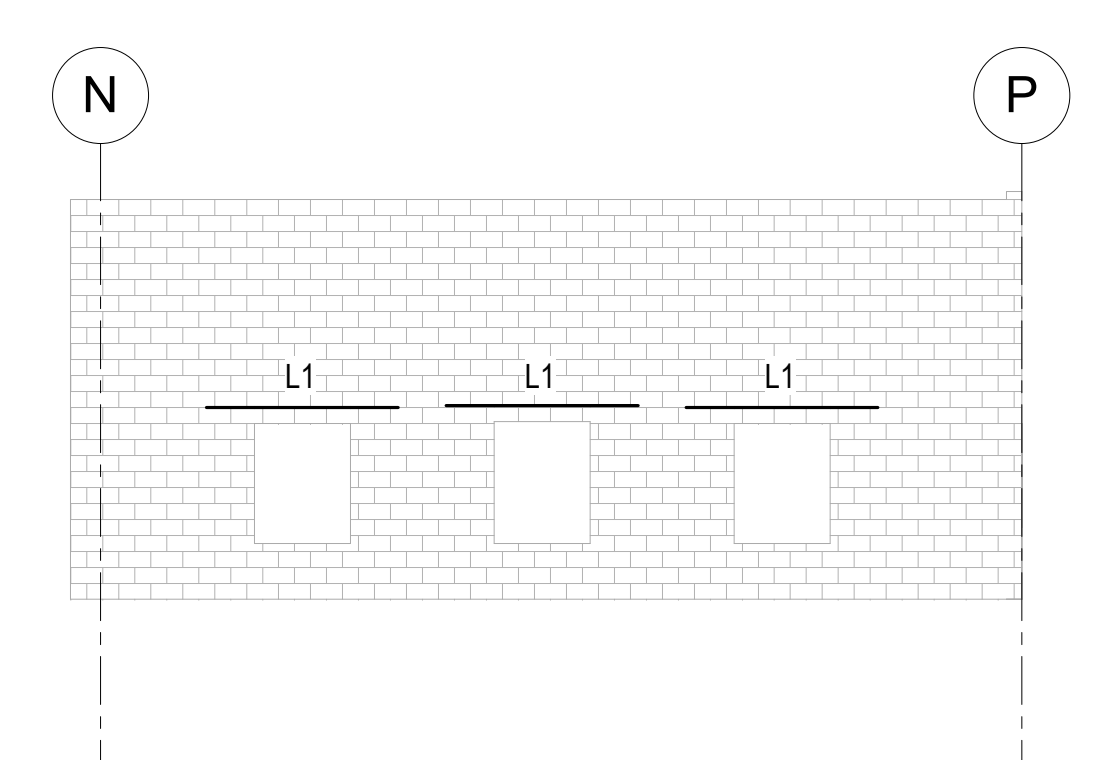
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05/03/2024



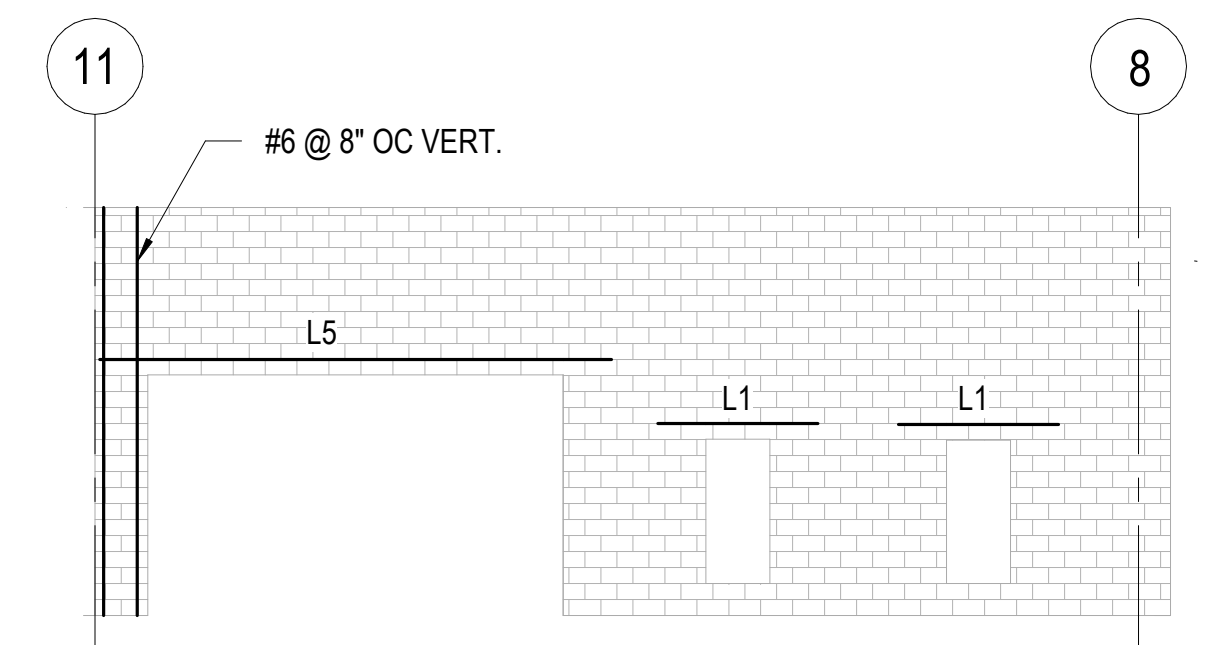
1 ELEVATION AT GRIDS 10 & 12
S700 SCALE: 1/8" = 1'-0"



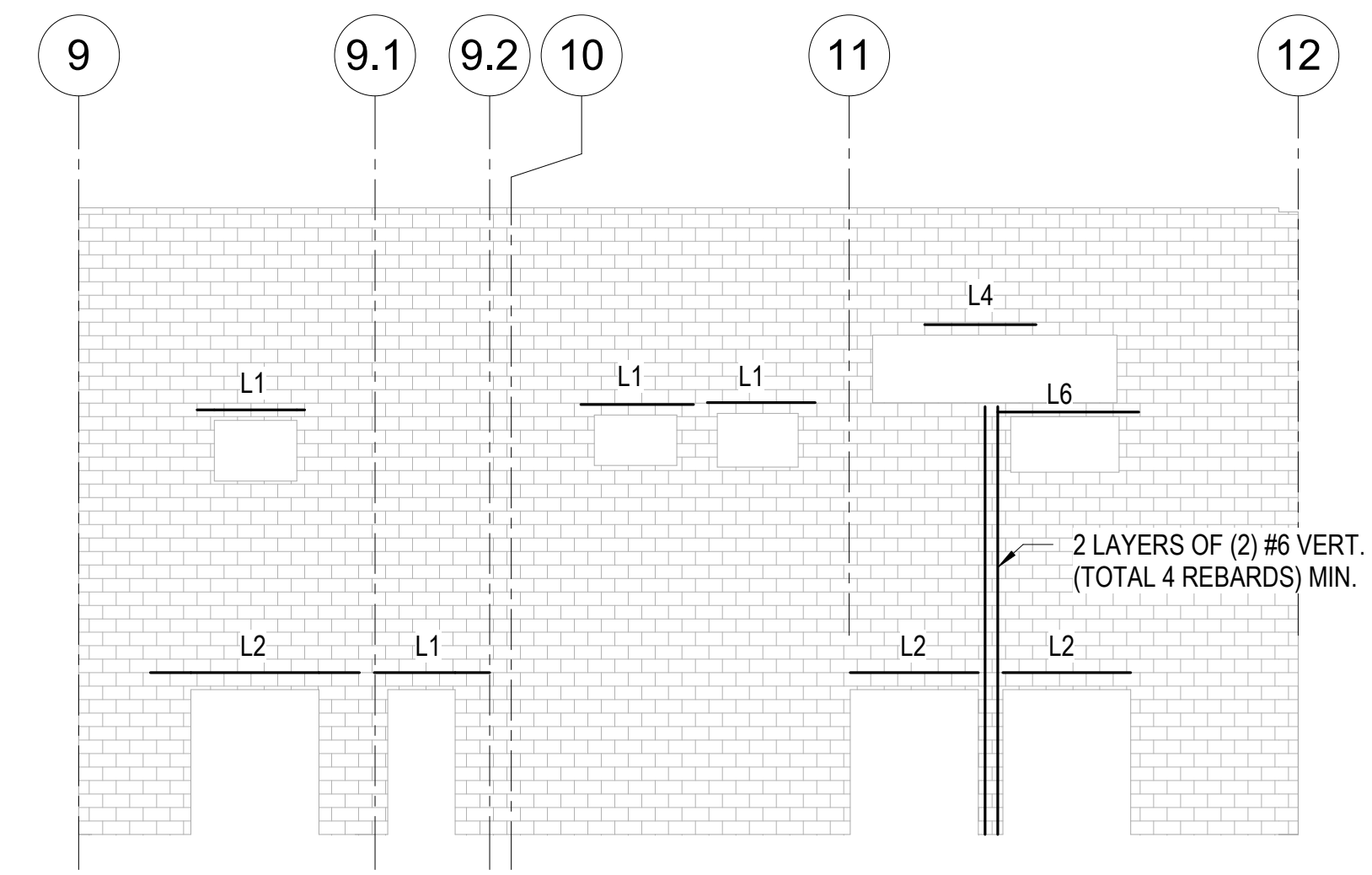
2 ELEVATION AT GRID 11
S700 SCALE: 1/8" = 1'-0"



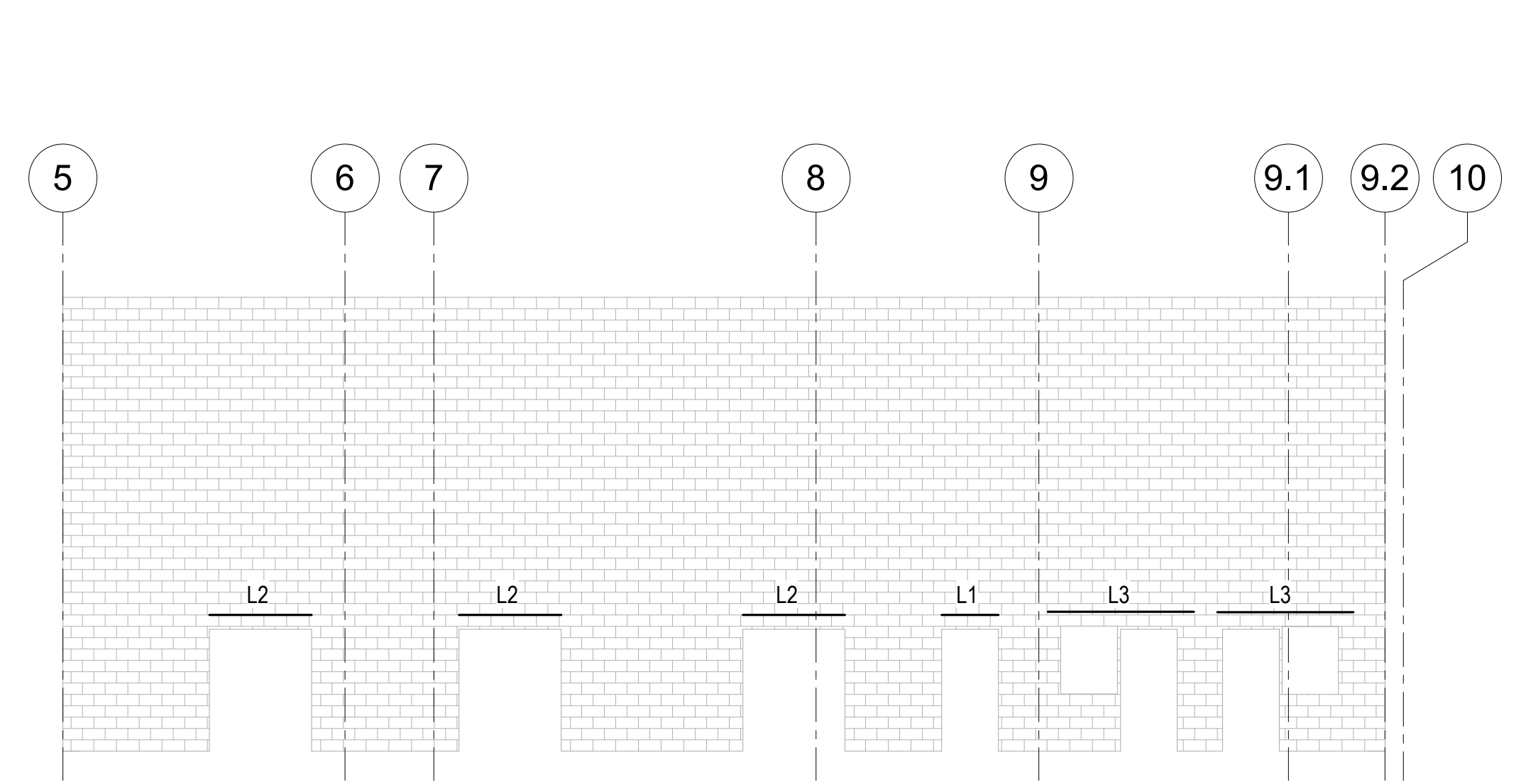
3 ELEVATION AT GRID 8
S700 SCALE: 1/8" = 1'-0"



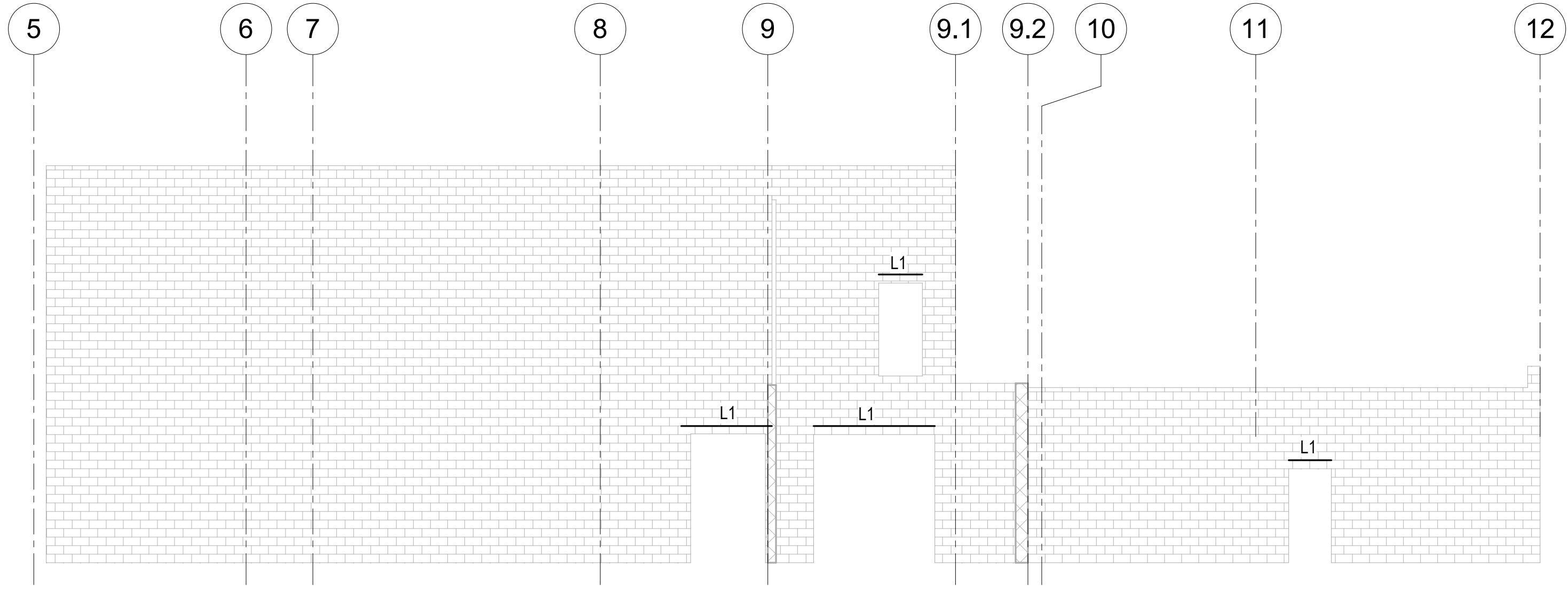
4 ELEVATION AT GRID N9 (SLANTED WALL)
S700 SCALE: 1/8" = 1'-0"



5 ELEVATION AT GRID E.1
S700 SCALE: 1/8" = 1'-0"



6 ELEVATION AT GRID B
S700 SCALE: 1/8" = 1'-0"



7 ELEVATION AT GRID C
S700 SCALE: 1/8" = 1'-0"



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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

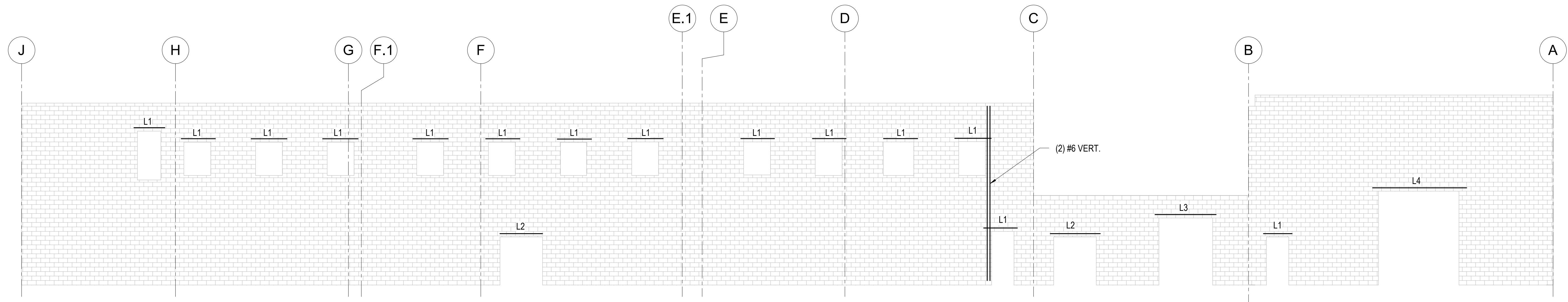
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DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
**MASONRY LINTEL
ELEVATIONS**

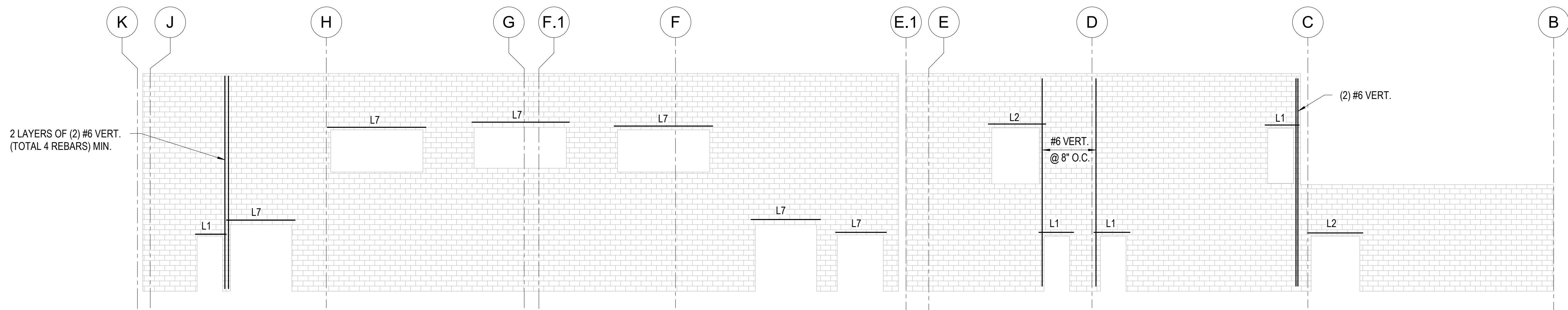
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S701

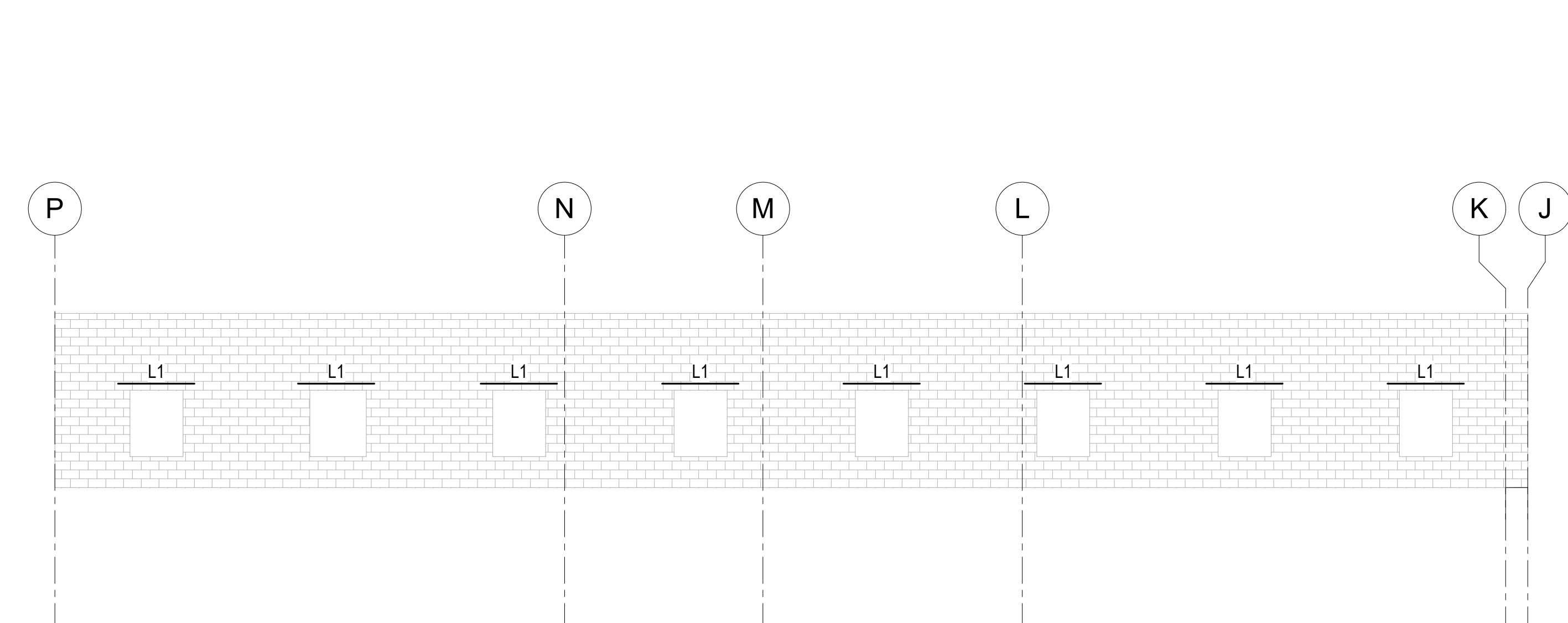
94 OF 272 SHEETS
05/03/2024



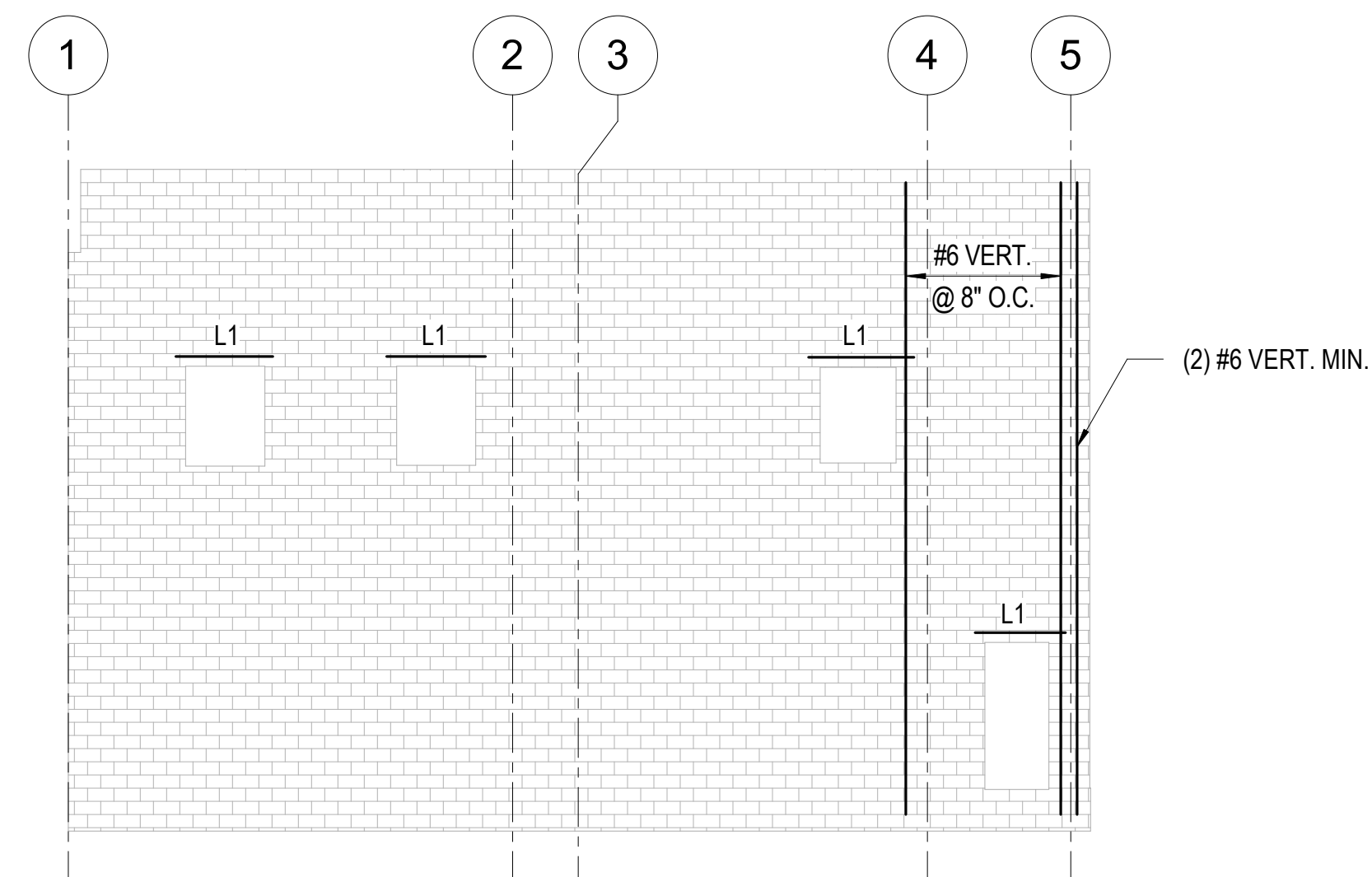
1 ELEVATION AT GRID 5
S701 SCALE: 1/8" = 1'-0"



2 ELEVATION AT GRID 9
S701 SCALE: 1/8" = 1'-0"



3 ELEVATION AT GRID 1
S701 SCALE: 1/8" = 1'-0"



4 ELEVATION AT GRID K
S701 SCALE: 1/8" = 1'-0"



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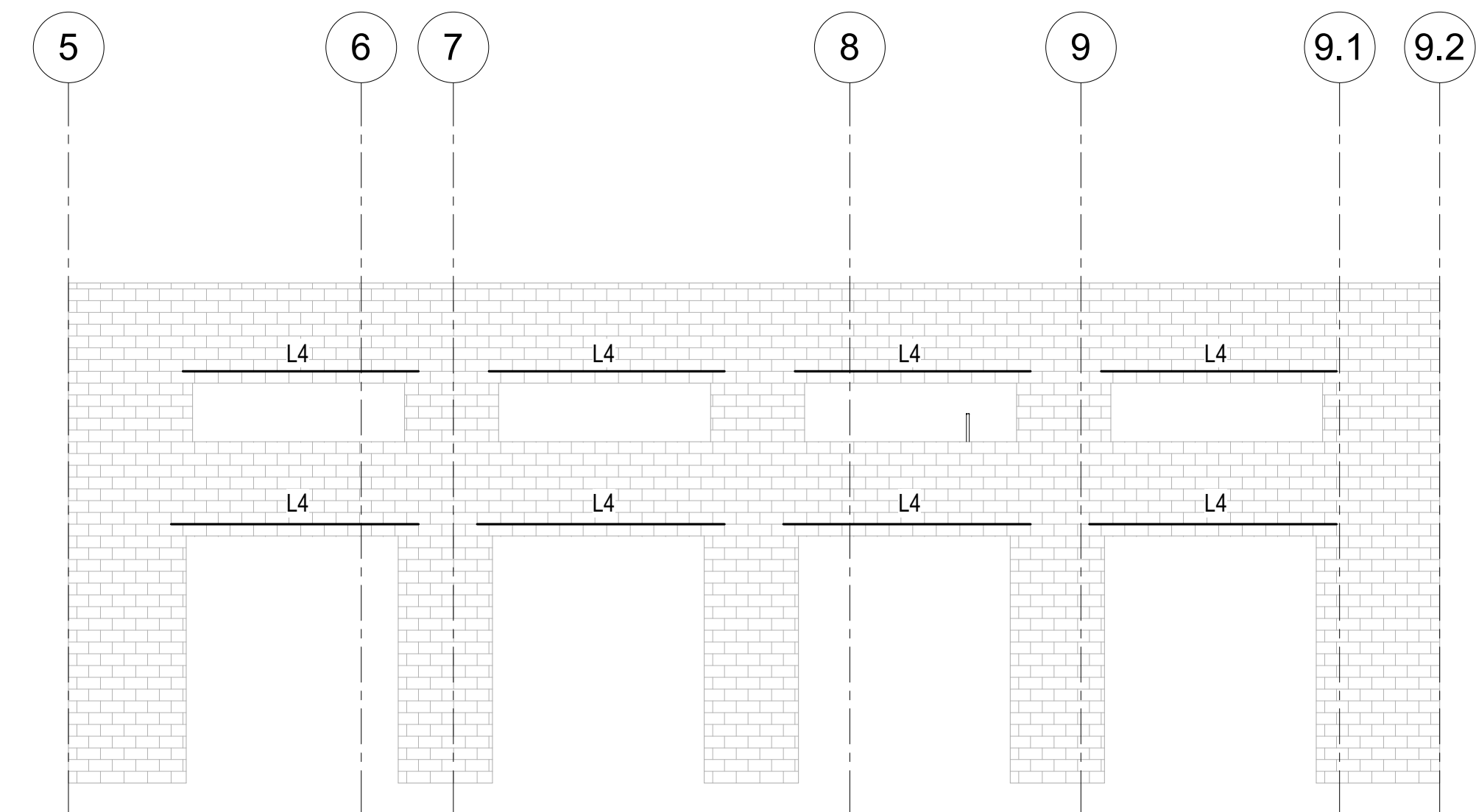
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DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
**MASONRY LINTEL
ELEVATIONS**

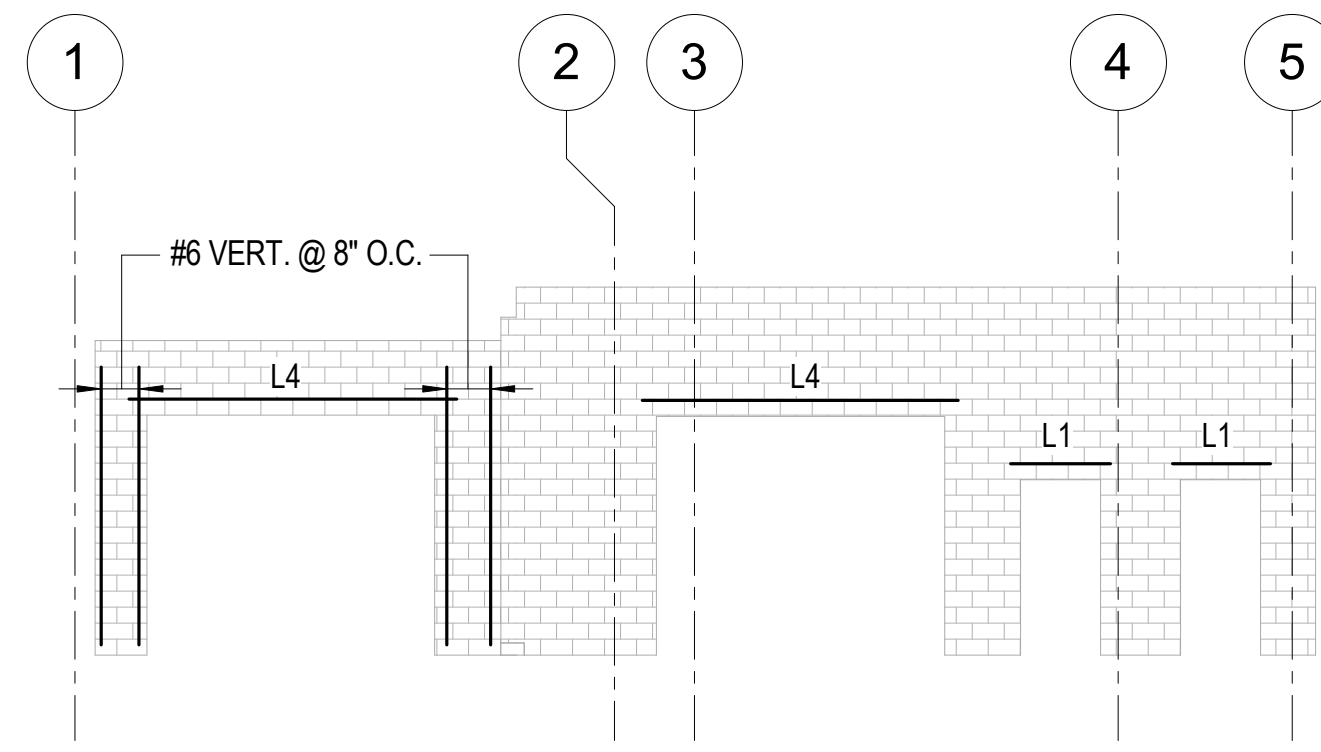
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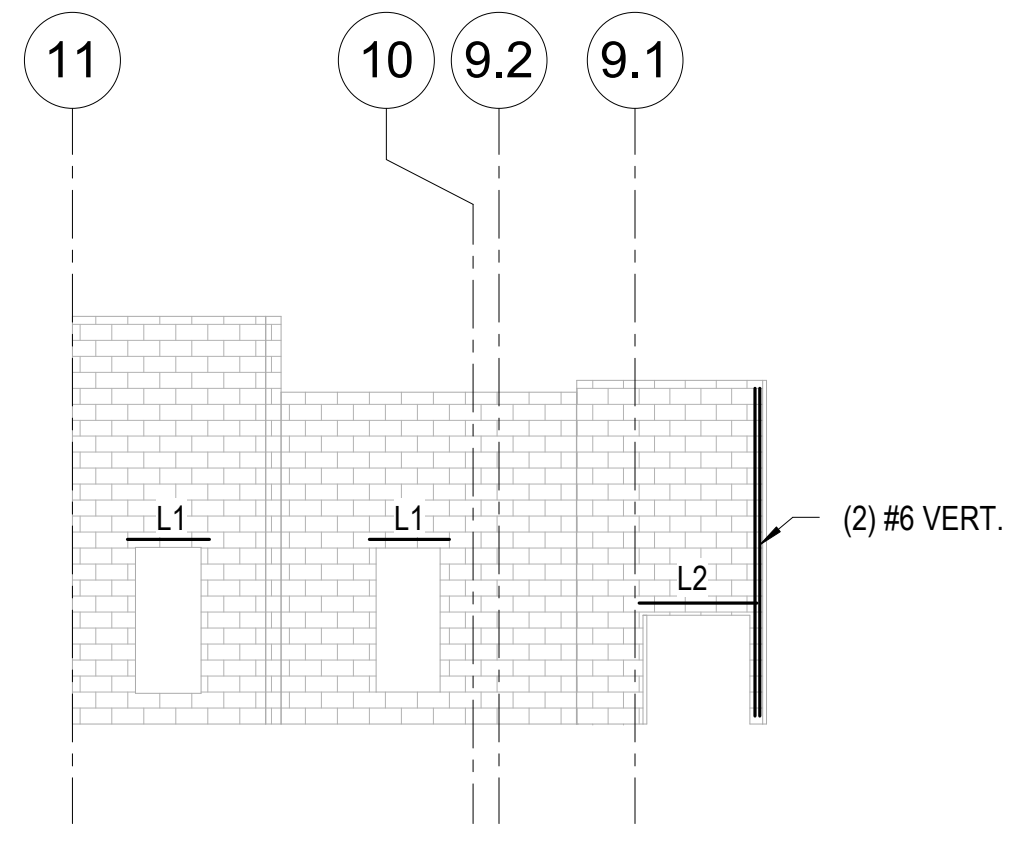
95 OF 272 SHEETS
05/03/2024



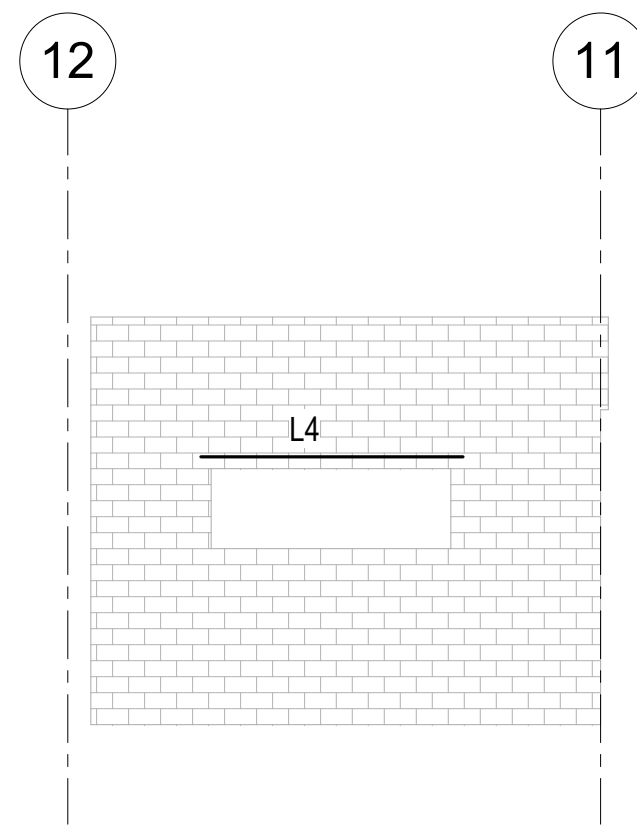
4 ELEVATION AT GRID A
S702 SCALE: 1/8" = 1'-0"



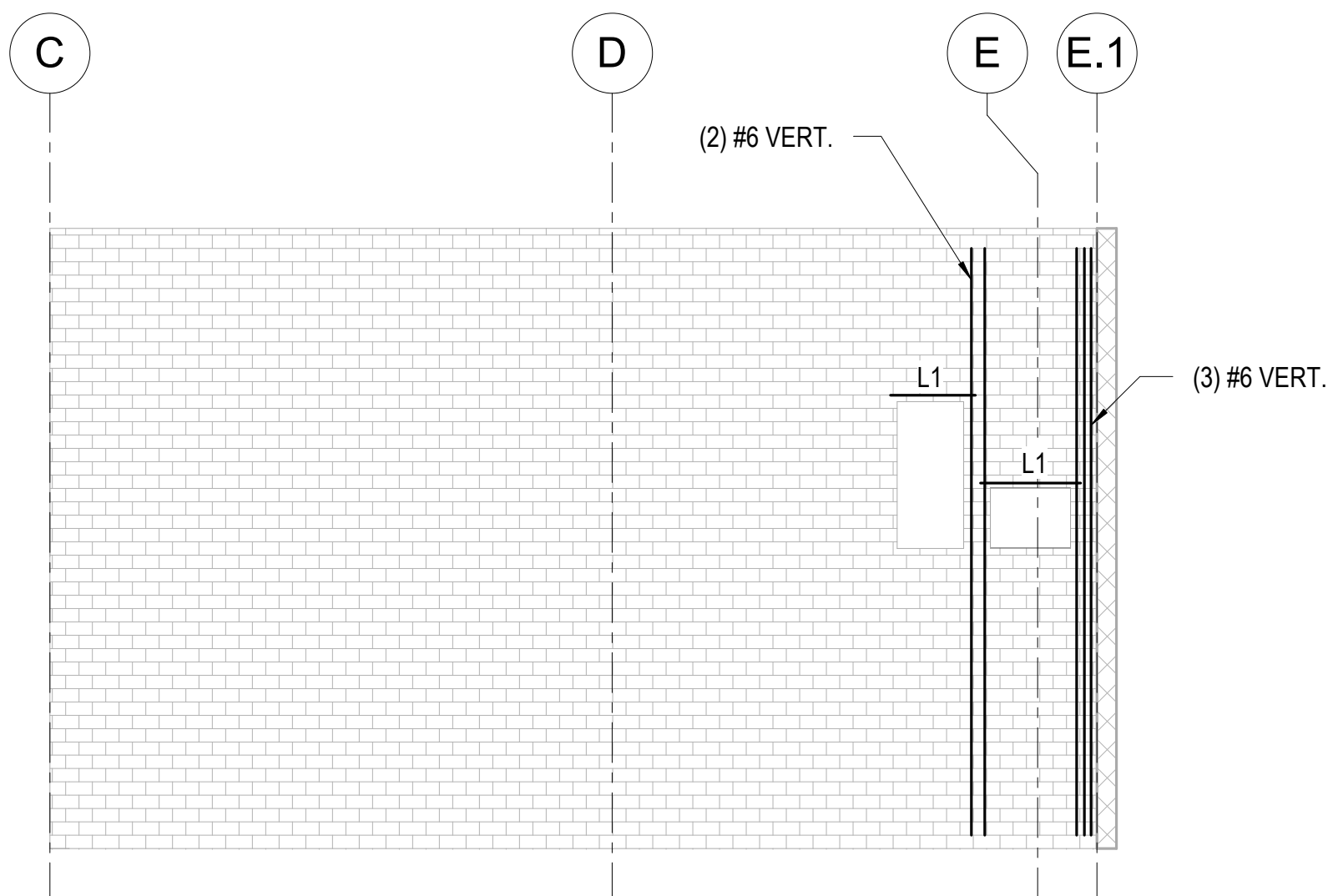
3 ELEVATION AT LOADING DOCK
S702 SCALE: 1/8" = 1'-0"



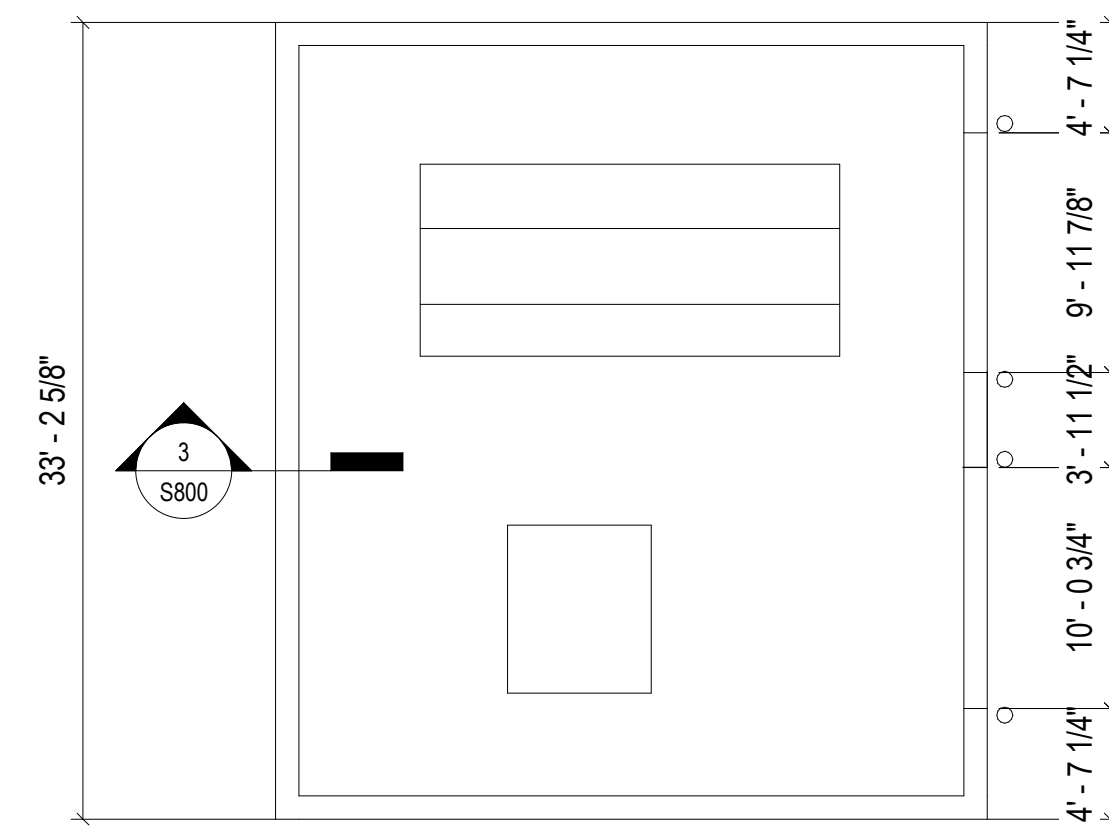
2 ELEVATION AT GRID M
S702 SCALE: 1/8" = 1'-0"



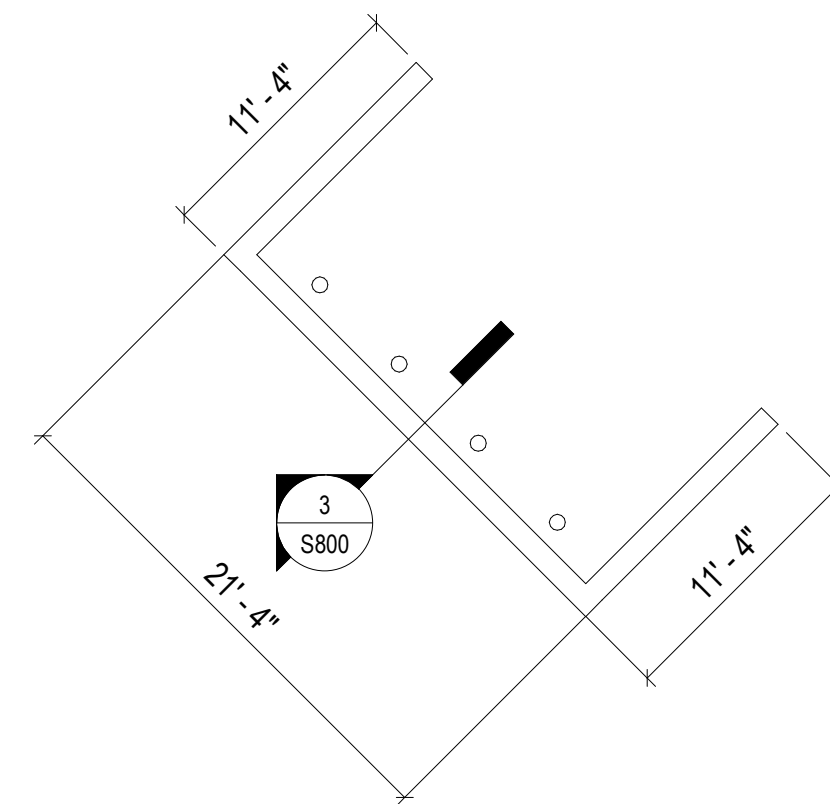
1 ELEVATION AT GRID K
S702 SCALE: 1/8" = 1'-0"



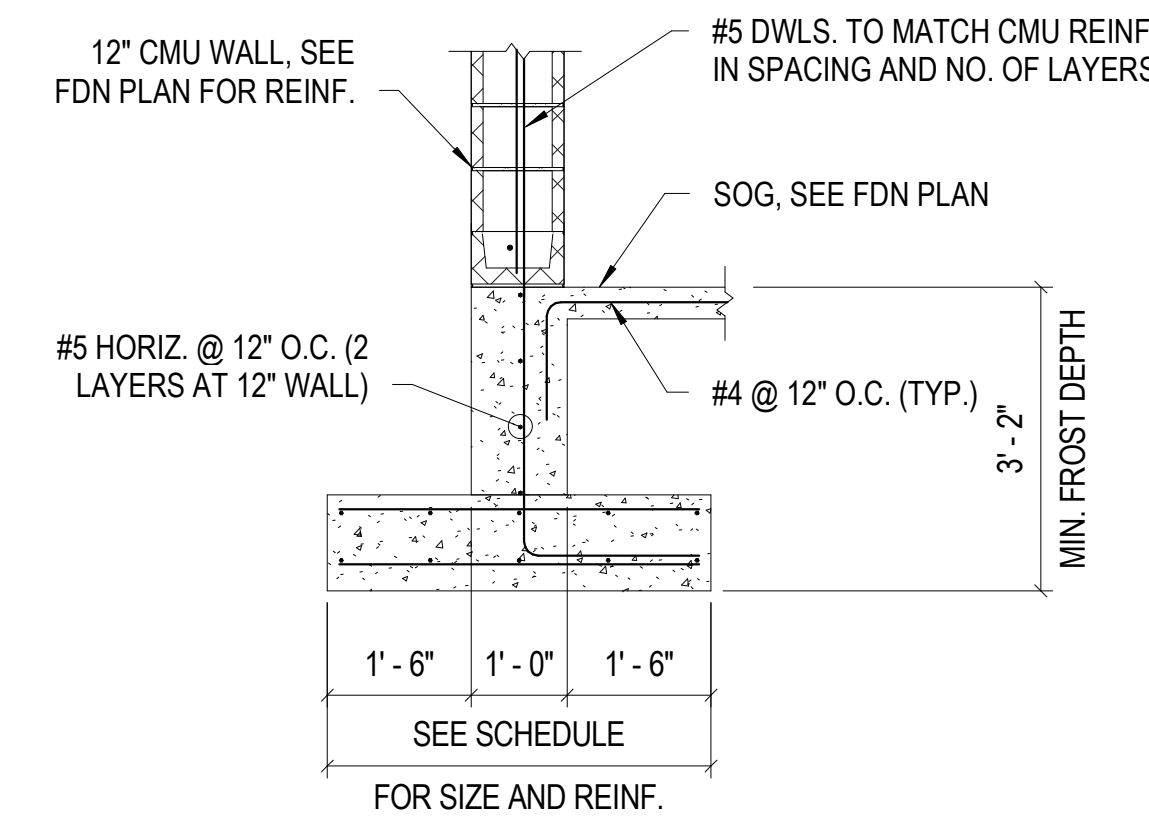
5 ELEVATION AT GRID 9.1
S702 SCALE: 1/8" = 1'-0"



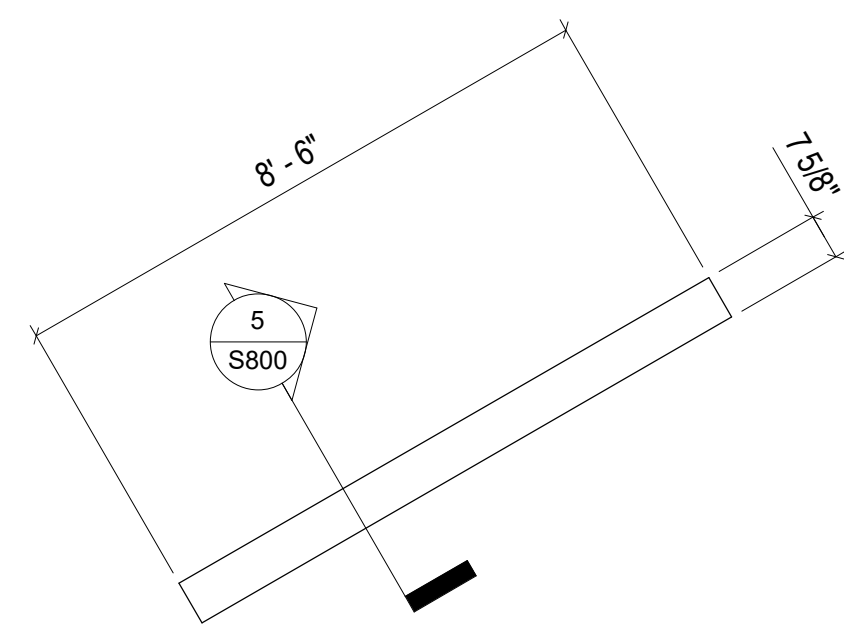
1 TRANSFORMER ENCLOSURE
 S800 SCALE: 1/8" = 1'-0"



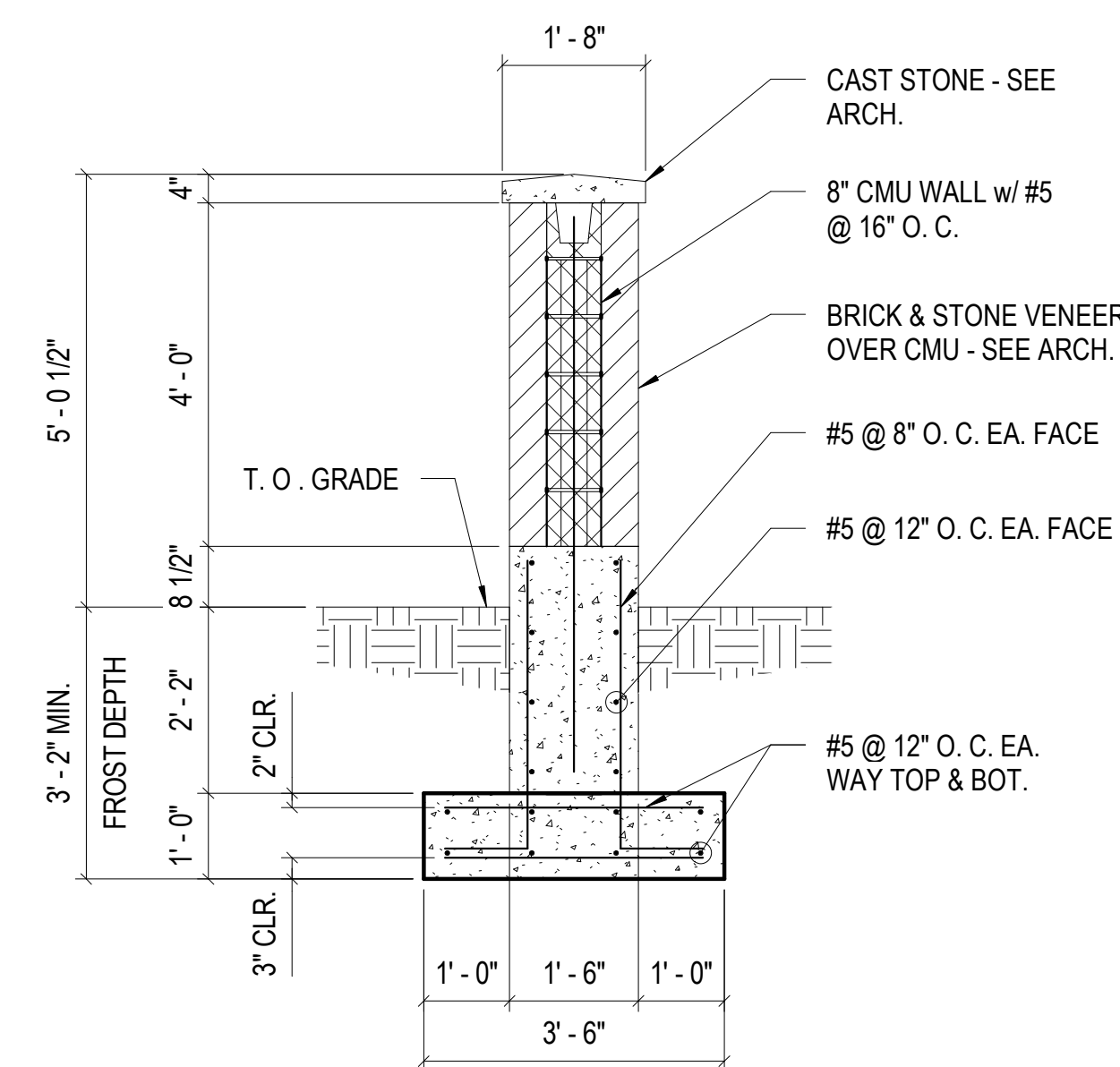
2 TRASH ENCLOSURE
 S800 SCALE: 1/8" = 1'-0"



3 WALL SECTION
 S800 SCALE: 1/2" = 1'-0"



4 MONUMENT SIGN PLAN
 S800 SCALE: 3/8" = 1'-0"



5 MONUMENT SIGN FOUNDATION SECTION
 S800 SCALE: 1/2" = 1'-0"



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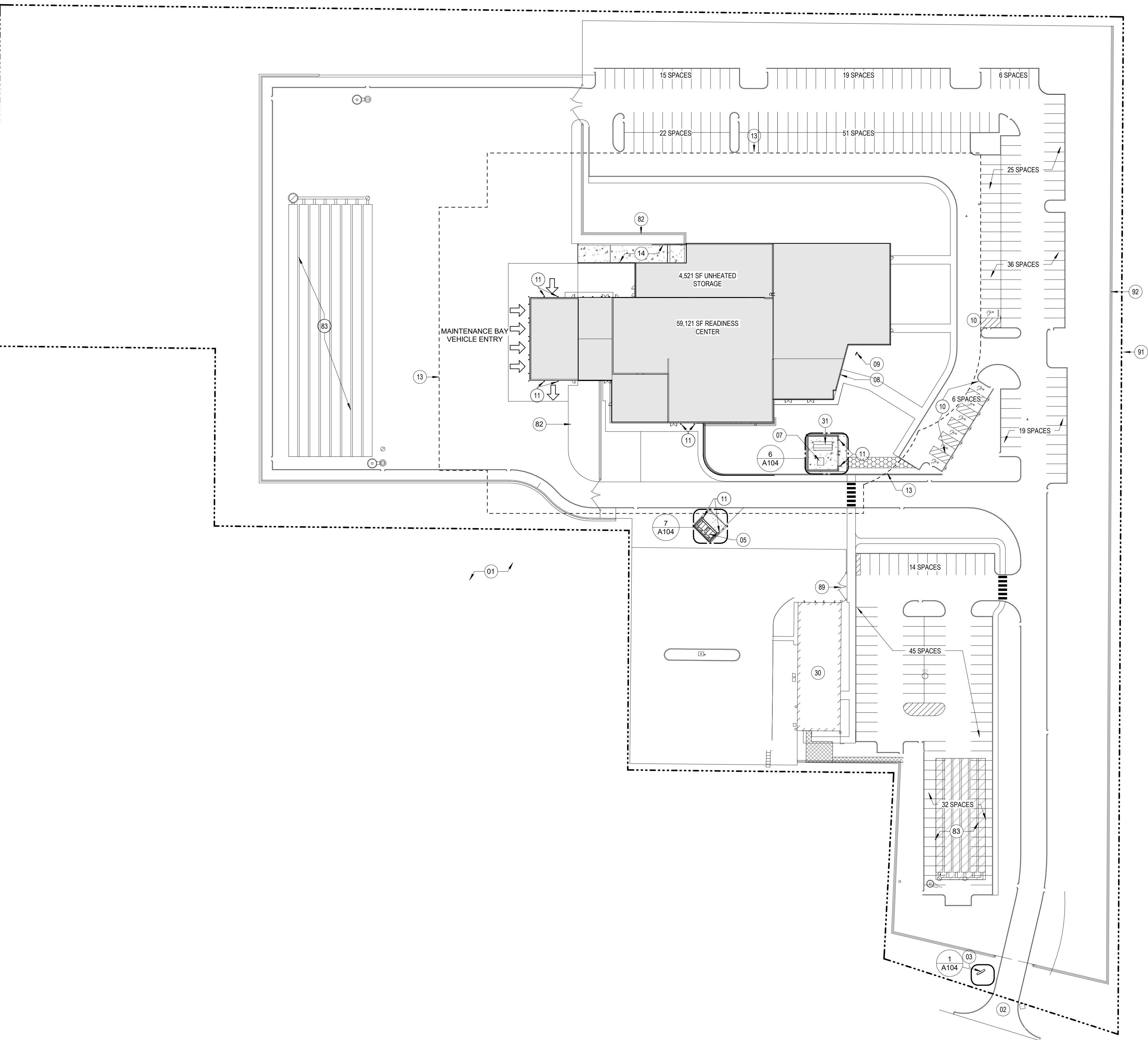
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 DRAWN BY: Author
 CHECKED BY: Checker
 DESIGNED BY: Designer

SHEET TITLE:
**ENCLOSURE PLANS
 AND DETAILS**

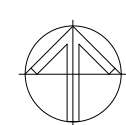
SHEET NUMBER:

S800

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 05/03/2024



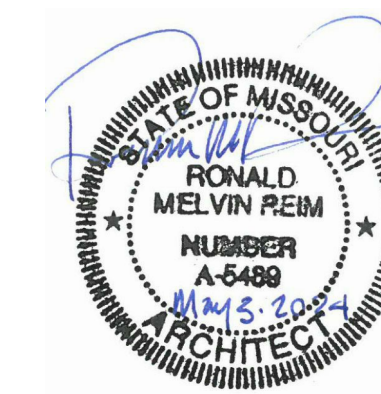
1 ARCHITECTURAL SITE PLAN
1" = 50'-0"



KEYNOTES

#	NOTE
01	EXISTING MODOT PROPERTY
02	MISSOURI ARMY NATIONAL GUARD PROPERTY ENTRY FROM LEWIS AND CLARK BOULEVARD
03	MONUMENT SIGN. REFERENCE DETAIL 1/A104 FOR ADDITIONAL DETAILS.
05	TRASH ENCLOSURE. SEE ADDITIONAL INFORMATION ON SHEET A104
07	UTILITY TRANSFORMER ENCLOSURE. SEE ADDITIONAL INFORMATION ON SHEET A133
08	BUILDING ENTRY
09	FLAGPOLE
10	ACCESSIBLE PARKING STALLS
11	8" CONCRETE FILLED BOLLARD, PAINTED YELLOW, TYP. RE: CIVIL DETAILS.
13	ANTI TERRORISM / FORCE PROTECTION 85' SETBACK LOCATION
14	LOADING DOCK
30	EXISTING STRUCTURE.
31	GENERATOR
82	7'0" HIGH CYCLONE FENCE WITH THREE STRAND BARBED WIRE. REFERENCE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
83	UNDERGROUND DETENTION BASIN. REFERENCE CIVIL FOR ADDITIONAL INFORMATION
89	ENTRY GATE. REFERENCE CIVIL FOR ADDITIONAL INFORMATION.
91	READINESS CENTER PROPERTY LINE. REFERENCE CIVIL FOR ADDITIONAL INFORMATION.
92	FENCE. REFERENCE CIVIL FOR ADDITIONAL INFORMATION.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



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720 Olive, Suite 700
St. Louis, MO 63101
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SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
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DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
SITE PLAN

SHEET NUMBER:

A101

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05/03/2024



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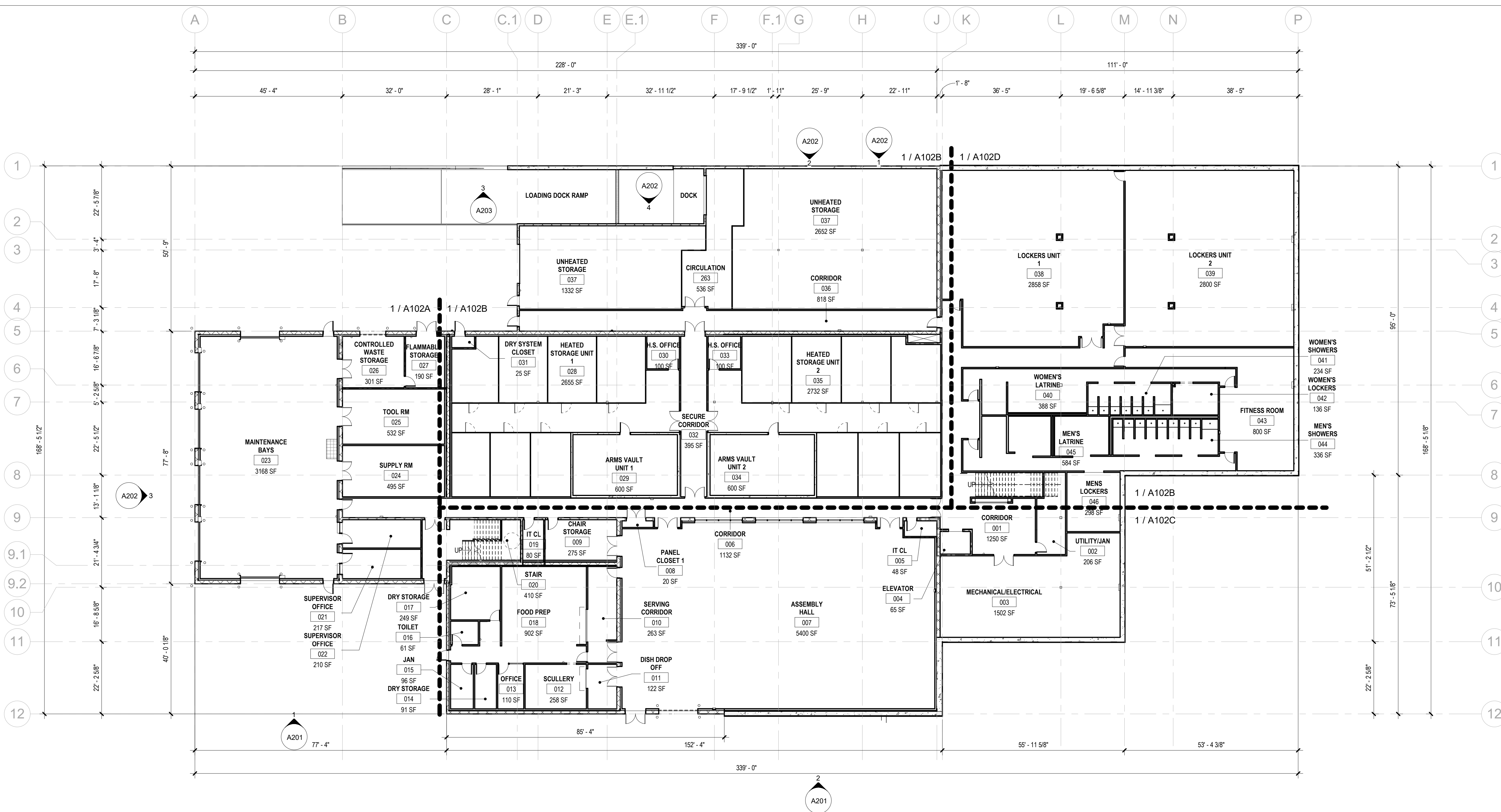
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DRAWN BY: JTK/CSH/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
LOWER LEVEL PLAN
- OVERALL

SHEET NUMBER:

A102

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05/03/2024

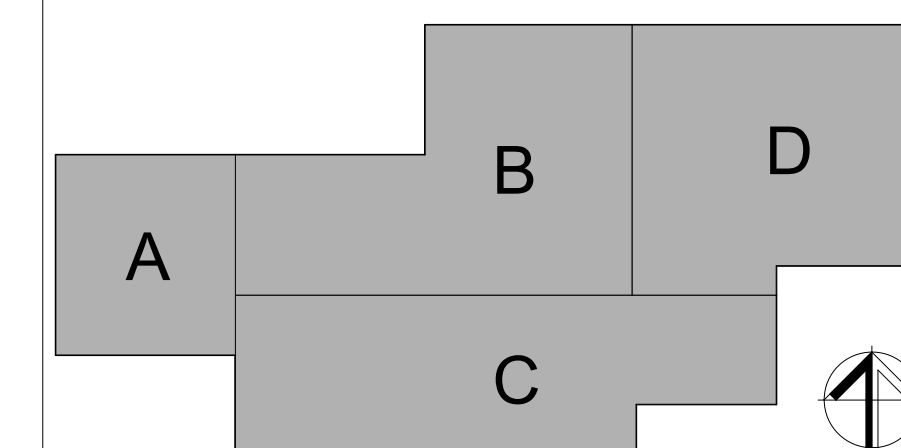


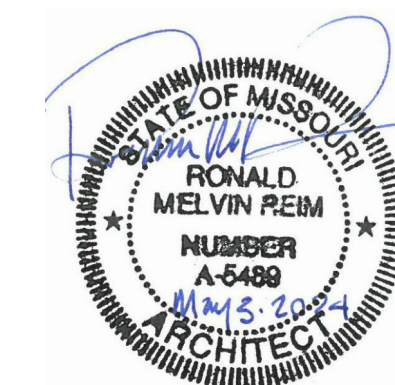
1 LOWER LEVEL PLAN - OVERALL
1/16" = 1'-0"

LEGEND

- NAME — ROOM NAME
- 1A34 — ROOM NUMBER
- 50 SF — AREA (SQ. FT.)
- ONE HOUR FIRE BARRIER CONSTRUCTION
- TWO HOUR FIRE BARRIER CONSTRUCTION

KEY PLAN





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NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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DATE:
ISSUE DATE: 05/03/2024

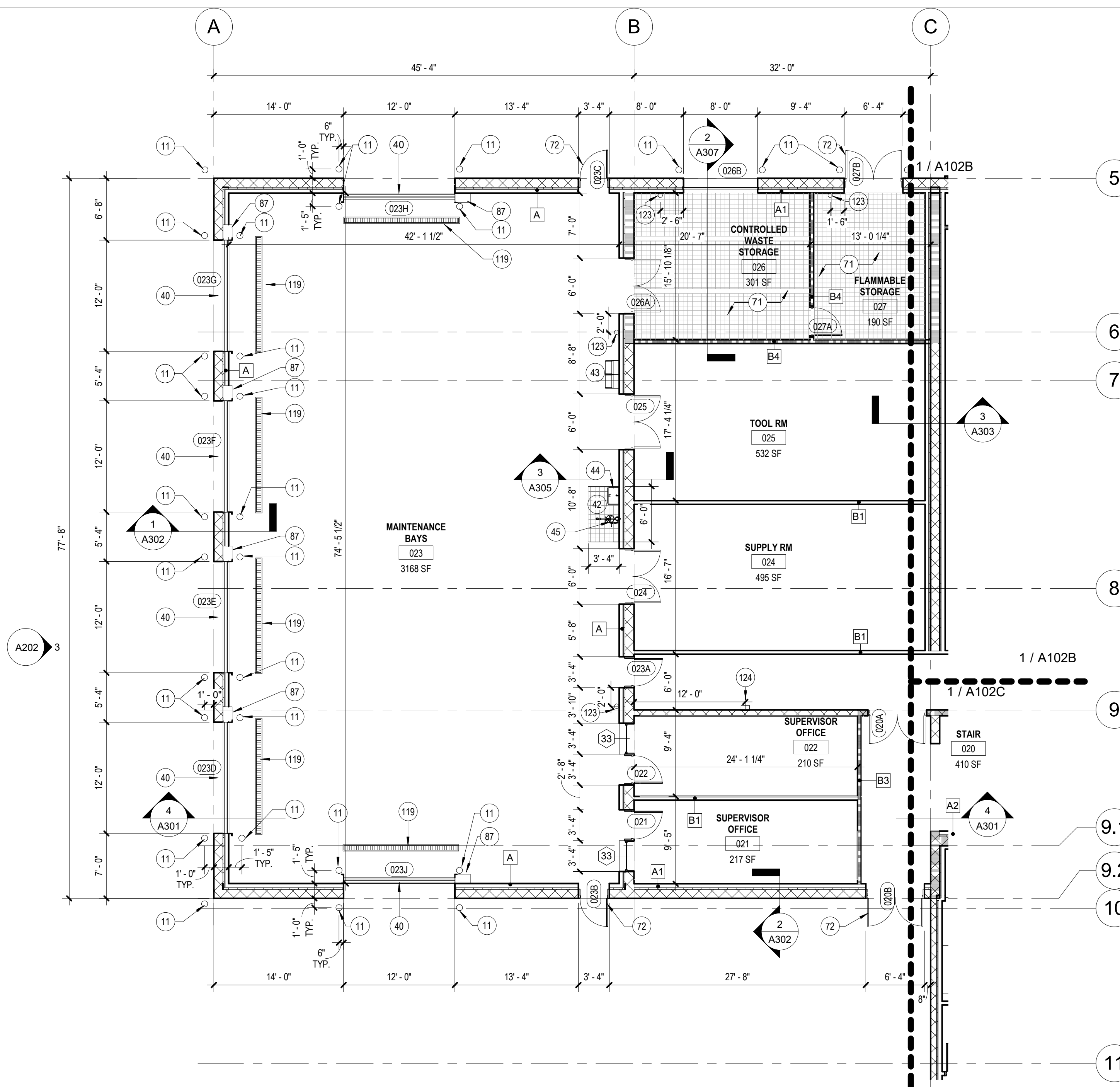
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DRAWN BY: JTK/CSH/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
LOWER LEVEL PLAN
- AREA A

SHEET NUMBER:

A102A

99 OF 272 SHEETS
05/03/2024



1 LOWER LEVEL PLAN - AREA A
1/8" = 1'-0"

KEYNOTES

#	NOTE
11	8" CONCRETE FILLED BOLLARD, PAINTED YELLOW, TYP. RE: CIVIL DETAILS.
40	BLAST RESISTANT, INSULATED SECTIONAL OVERHEAD DOOR, TYP.
42	SLOPED CONCRETE TO DRAIN FOR WATER CONTAINMENT FOR EYEWASH STATION.
43	HIGH/LOW ADA WALL MOUNTED DRINKING FOUNTAIN, REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
44	HAND SINK; REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
45	DELUGE/EYEWASH COMBO; REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
71	RECESSED FLOOR WITH GRATE, REFERENCE STRUCTURAL
72	EXTERIOR, BLAST RESISTANT HOLLOW METAL DOOR AND FRAME, TYP.
87	OVERHEAD DOOR OPERATOR HOUSING.
119	TRENCH DRAIN, TYP. REFERENCE STRUCTURAL AND PLUMBING FOR ADDITIONAL INFORMATION.
123	WALL MOUNTED FIRE EXTINGUISHER
124	SURFACE MOUNTED FIRE EXTINGUISHER CABINET

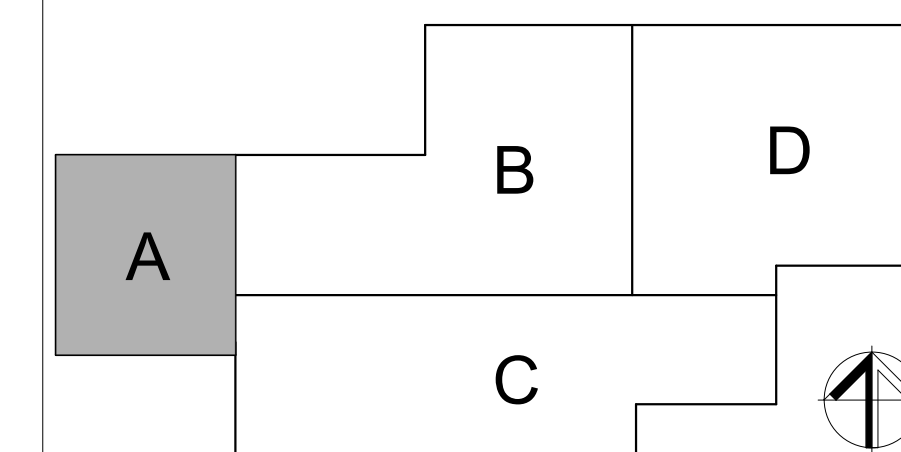
SHEET NOTES

- INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF GYPSUM BOARD AND CMU UNLESS OTHERWISE NOTED. WALLS TO RECEIVE AN ADDITIONAL FINISH (SUCH AS CERAMIC TILE) ARE DIMENSIONED TO THE FACE OF SUBSTRATE.
- EXTERIOR FINISHES ARE DIMENSIONED TO FACE OF MATERIAL FINISH UNLESS OTHERWISE NOTED.
- MEP EQUIPMENT IS SHOWN FOR REFERENCE ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO G006 FOR TYPICAL MOUNTING HEIGHTS.
- MOLD RESISTANT GYPSUM BOARD TO BE USED IN SHOWER ROOMS
- SEE A402 FOR EQUIPMENT SCHEDULE.
- BLOCKING TO BE PROVIDED FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES.

LEGEND

NAME →	ROOM NAME
1A34 →	ROOM NUMBER
50 SF →	AREA (SQ. FT.)
	ONE HOUR FIRE BARRIER CONSTRUCTION
	TWO HOUR FIRE BARRIER CONSTRUCTION

KEY PLAN





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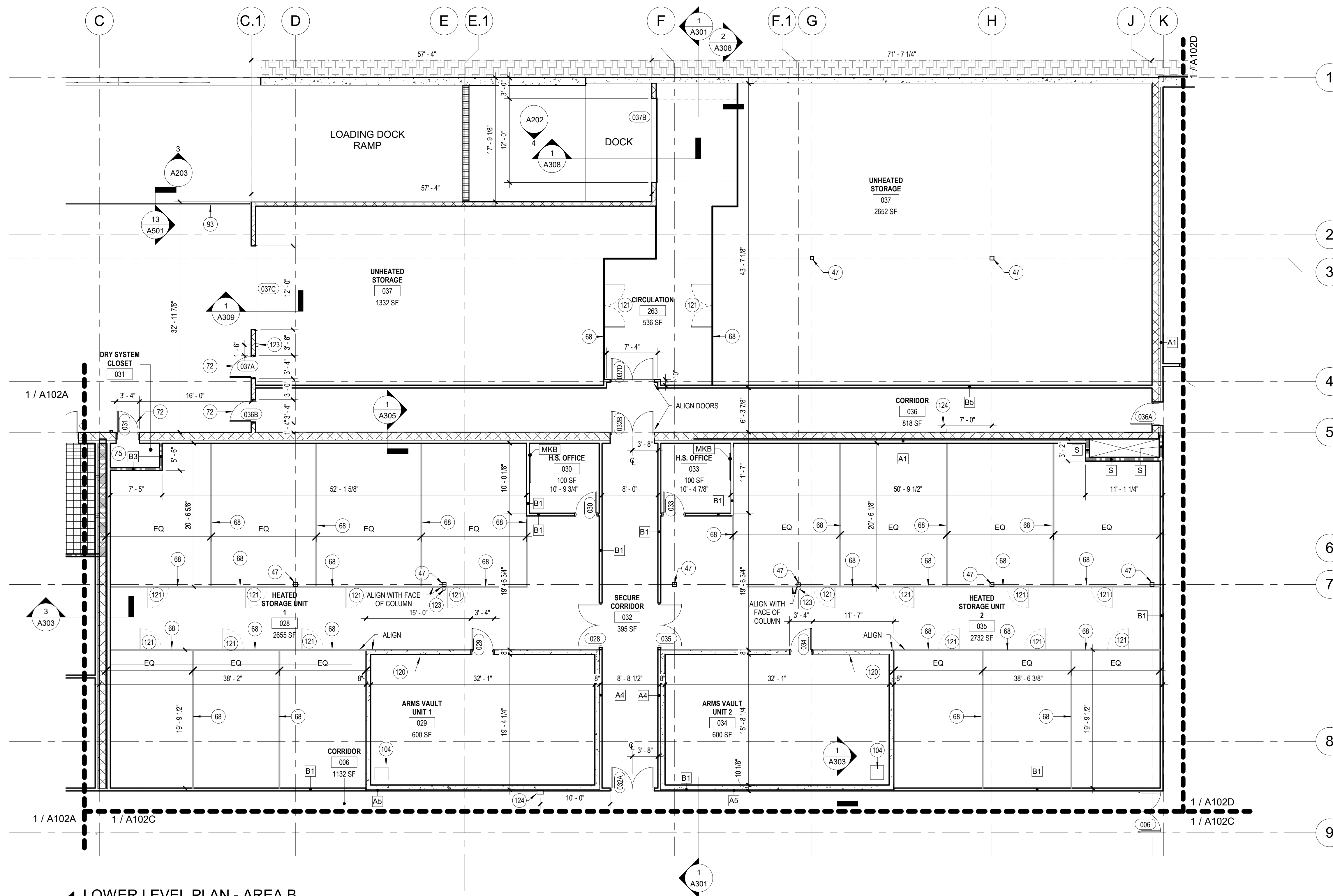
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DRAWN BY: JTK/CSH/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
LOWER LEVEL PLAN
- AREA B

SHEET NUMBER:

A102B

100 OF 272 SHEETS
05/03/2024



1 LOWER LEVEL PLAN - AREA B
1/8" = 1'-0"

KEYNOTES

#	NOTE
47	STRUCTURAL COLUMN, TYP. REFERENCE STRUCTURAL FOR ADDITIONAL INFORMATION
68	8FT WIRE MESH PARTITION THROUGHOUT, TYP.
72	EXTERIOR, BLAST RESISTANT HOLLOW METAL DOOR AND FRAME, TYP.
75	DRY RISER ASSEMBLY SYSTEM, REFERENCE FIRE PROTECTION FOR ADDITIONAL INFORMATION
93	GUARDRAIL ON RETAINING WALL
104	DESICCANT DEHUMIDIFICATION UNIT, REFERENCE MECHANICAL FOR ADDITIONAL INFORMATION.
120	THROUGH WALL VENT, REFERENCE MECHANICAL FOR ADDITIONAL INFORMATION.
121	DOOR IN MESH PARTITION, REFERENCE SHEET A406
123	WALL MOUNTED FIRE EXTINGUISHER
124	SURFACE MOUNTED FIRE EXTINGUISHER CABINET

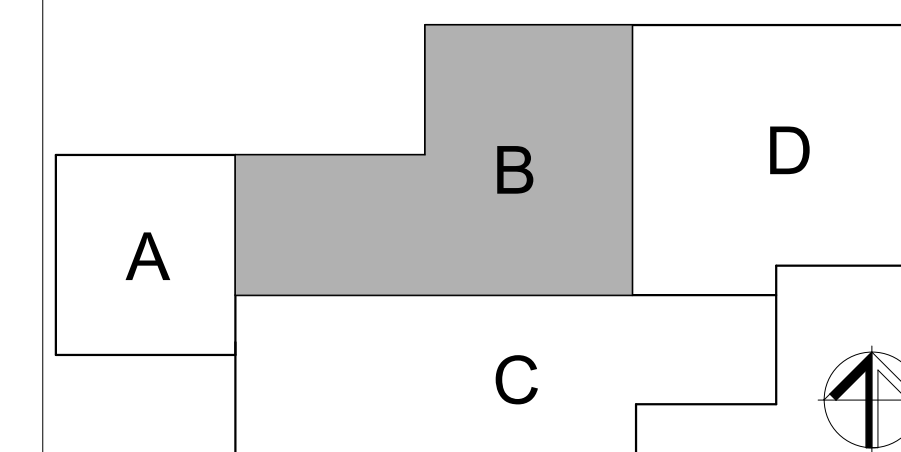
SHEET NOTES

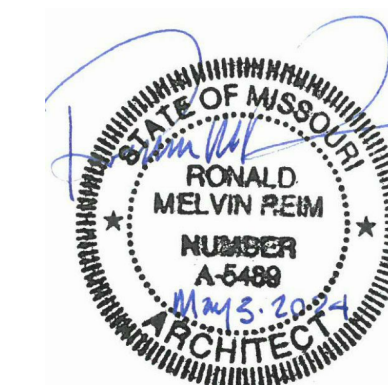
- INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF GYPSUM BOARD AND CMU UNLESS OTHERWISE NOTED. WALLS TO RECEIVE AN ADDITIONAL FINISH (SUCH AS CERAMIC TILE) ARE DIMENSIONED TO THE FACE OF SUBSTRATE.
- EXTERIOR FINISHES ARE DIMENSIONED TO FACE OF MATERIAL FINISH UNLESS OTHERWISE NOTED.
- MEP EQUIPMENT IS SHOWN FOR REFERENCE ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO G006 FOR TYPICAL MOUNTING HEIGHTS.
- MOLD RESISTANT GYPSUM BOARD TO BE USED IN SHOWER ROOMS SEE A402 FOR EQUIPMENT SCHEDULE.
- BLOCKING TO BE PROVIDED FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES.

LEGEND

NAME	ROOM NAME
1A34	ROOM NUMBER
50 SF	AREA (SQ. FT.)
[Symbol]	ONE HOUR FIRE BARRIER CONSTRUCTION
[Symbol]	TWO HOUR FIRE BARRIER CONSTRUCTION

KEY PLAN





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FACILITY # 8136322001

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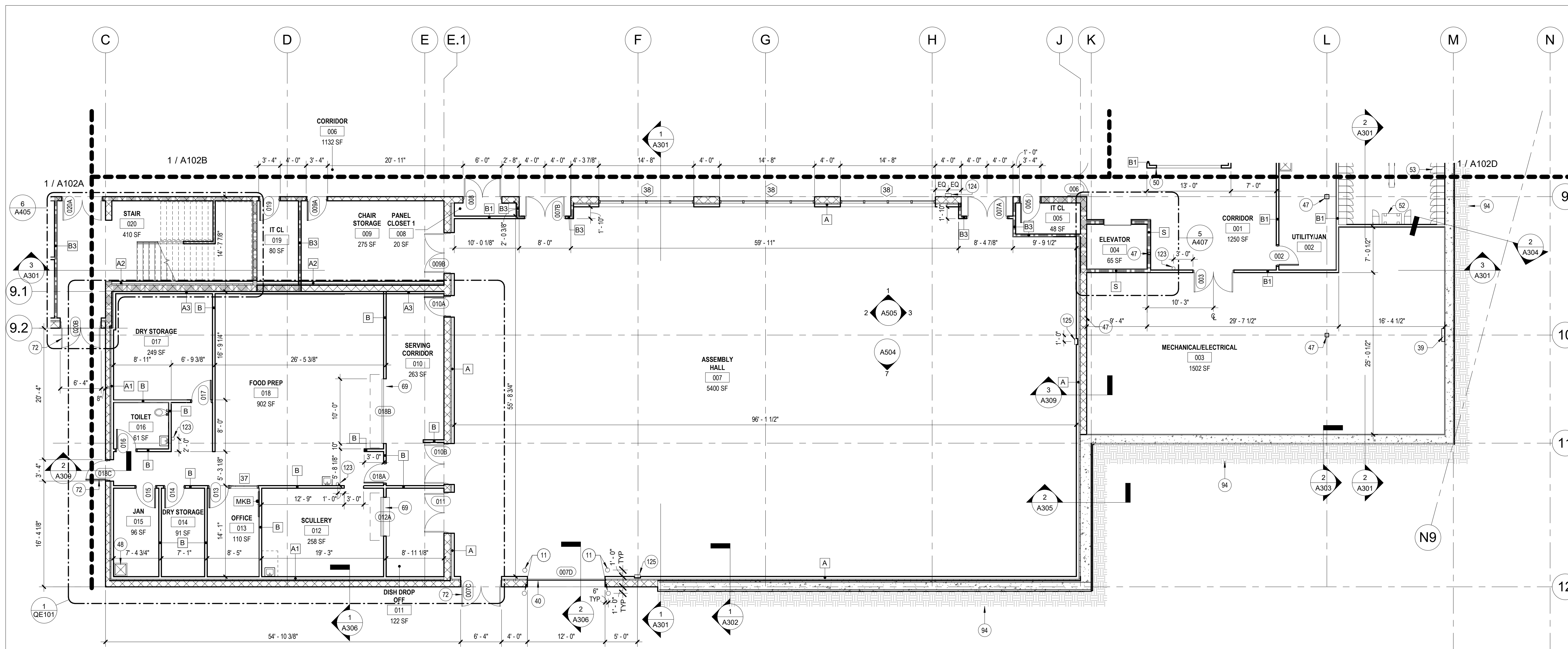
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DRAWN BY: JTK/CSH/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
LOWER LEVEL PLAN
- AREA C

SHEET NUMBER:

A102C

101 OF 272 SHEETS
05/03/2024



1 LOWER LEVEL PLAN - AREA C
1/8" = 1'-0"

KEYNOTES

#	NOTE
11	8" CONCRETE FILLED BOLLARD, PAINTED YELLOW, TYP. REF. CIVIL DETAILS.
39	STRUCTURAL PILASTER, TYP. REFERENCE STRUCTURAL FOR ADDITIONAL INFORMATION.
40	BLAST RESISTANT, INSULATED SECTIONAL OVERHEAD DOOR, TYP.
47	STRUCTURAL COLUMN, TYP. REFERENCE STRUCTURAL FOR ADDITIONAL INFORMATION
48	MOP SINK BASIN, REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
50	NATIONAL GUARD DISPLAY CASES
52	FLOOR MOUNTED, LOCKER ROOM BENCH
53	LOCKERS, TYP. REF. SPECS FOR ADDITIONAL INFORMATION.
69	INTERIOR COILING DOOR AT KITCHEN SERVING COUNTER
72	EXTERIOR, BLAST RESISTANT HOLLOW METAL DOOR AND FRAME, TYP.
94	HATCH INDICATES BELOW GRADE CONDITIONS
104	DESICCANT DEHUMIDIFICATION UNIT, REFERENCE MECHANICAL FOR ADDITIONAL INFORMATION.
123	WALL MOUNTED FIRE EXTINGUISHER
124	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
125	SEMI-RECESSED FIRE EXTINGUISHER CABINET

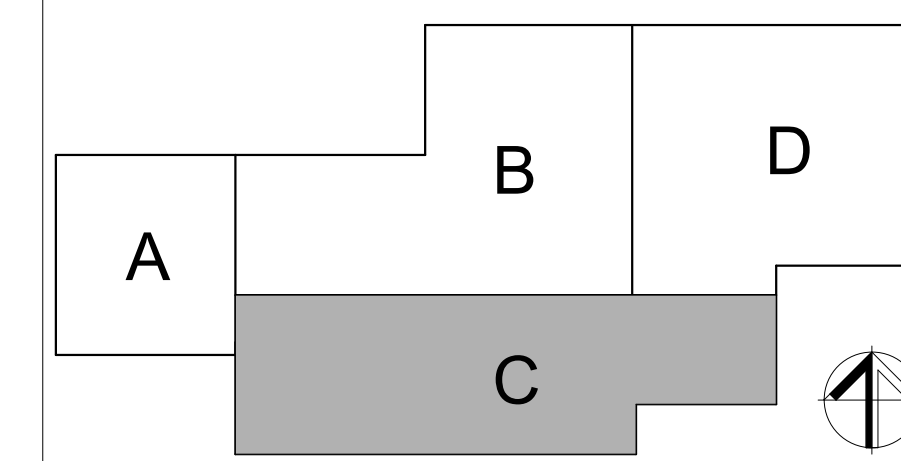
SHEET NOTES

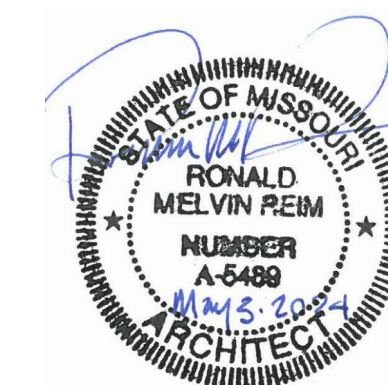
- INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF GYPSUM BOARD AND CMU UNLESS OTHERWISE NOTED. WALLS TO RECEIVE AN ADDITIONAL FINISH (SUCH AS CERAMIC TILE) ARE DIMENSIONED TO THE FACE OF SUBSTRATE.
- EXTERIOR FINISHES ARE DIMENSIONED TO FACE OF MATERIAL FINISH UNLESS OTHERWISE NOTED.
- MEP EQUIPMENT IS SHOWN FOR REFERENCE ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO G005 FOR TYPICAL MOUNTING HEIGHTS.
- MOLD RESISTANT GYPSUM BOARD TO BE USED IN SHOWER ROOMS
- SEE A402 FOR EQUIPMENT SCHEDULE
- LOCKING TO BE PROVIDED FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES.

LEGEND

- NAME** → ROOM NAME
1A34 → ROOM NUMBER
50 SF → AREA (SQ. FT.)
- ▬ ONE HOUR FIRE BARRIER CONSTRUCTION
 ▬ TWO HOUR FIRE BARRIER CONSTRUCTION

KEY PLAN





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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE: _____
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DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 05/03/2024

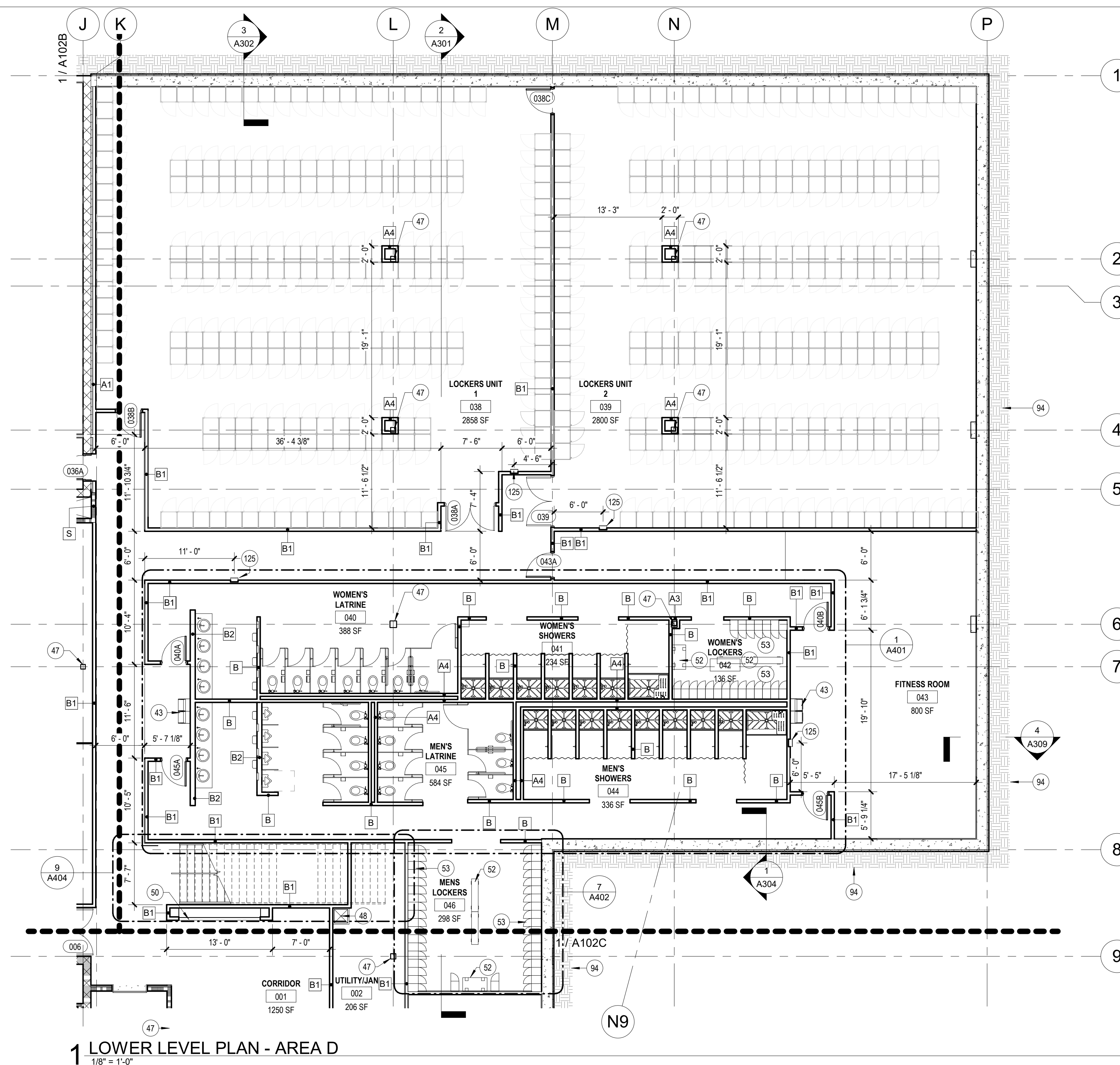
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DRAWN BY: JTK/CSH/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
LOWER LEVEL PLAN
- AREA D

SHEET NUMBER:

A102D

102 OF 272 SHEETS
05/03/2024



1 LOWER LEVEL PLAN - AREA D
1/8" = 1'-0"

KEYNOTES

#	NOTE
43	HIGH/LOW ADA WALL MOUNTED DRINKING FOUNTAIN. REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
47	STRUCTURAL COLUMN. TYP. REFERENCE STRUCTURAL FOR ADDITIONAL INFORMATION
48	MOP SINK BASIN. REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
50	NATIONAL GUARD DISPLAY CASES
52	FLOOR MOUNTED LOCKER ROOM BENCH
53	LOCKERS. TYP. REF. SPECS FOR ADDITIONAL INFORMATION.
94	HATCH INDICATES BELOW GRADE CONDITIONS.
125	SEMI-RECESSED FIRE EXTINGUISHER CABINET

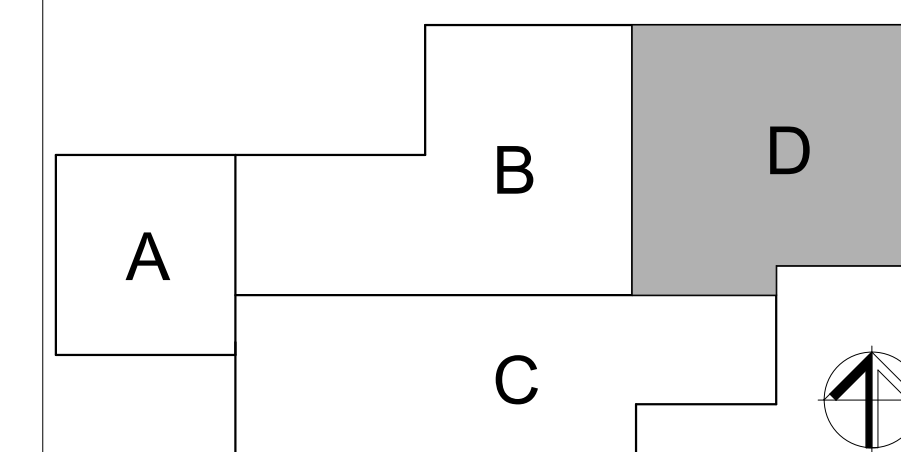
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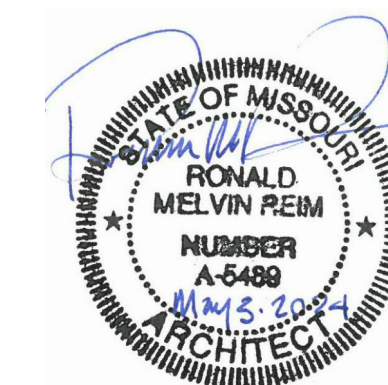
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- EXTERIOR FINISHES ARE DIMENSIONED TO FACE OF MATERIAL FINISH UNLESS OTHERWISE NOTED.
- MFP EQUIPMENT IS SHOWN FOR REFERENCE ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO G005 FOR TYPICAL MOUNTING HEIGHTS.
- MOLD RESISTANT GYPSUM BOARD TO BE USED IN SHOWER ROOMS.
- SEE A402 FOR EQUIPMENT SCHEDULE
- BLOCKING TO BE PROVIDED FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES.

LEGEND

- NAME** → ROOM NAME
1A34 → ROOM NUMBER
50 SF → AREA (SQ. FT.)
- ▬ ONE HOUR FIRE BARRIER CONSTRUCTION
 ▬ TWO HOUR FIRE BARRIER CONSTRUCTION

KEY PLAN





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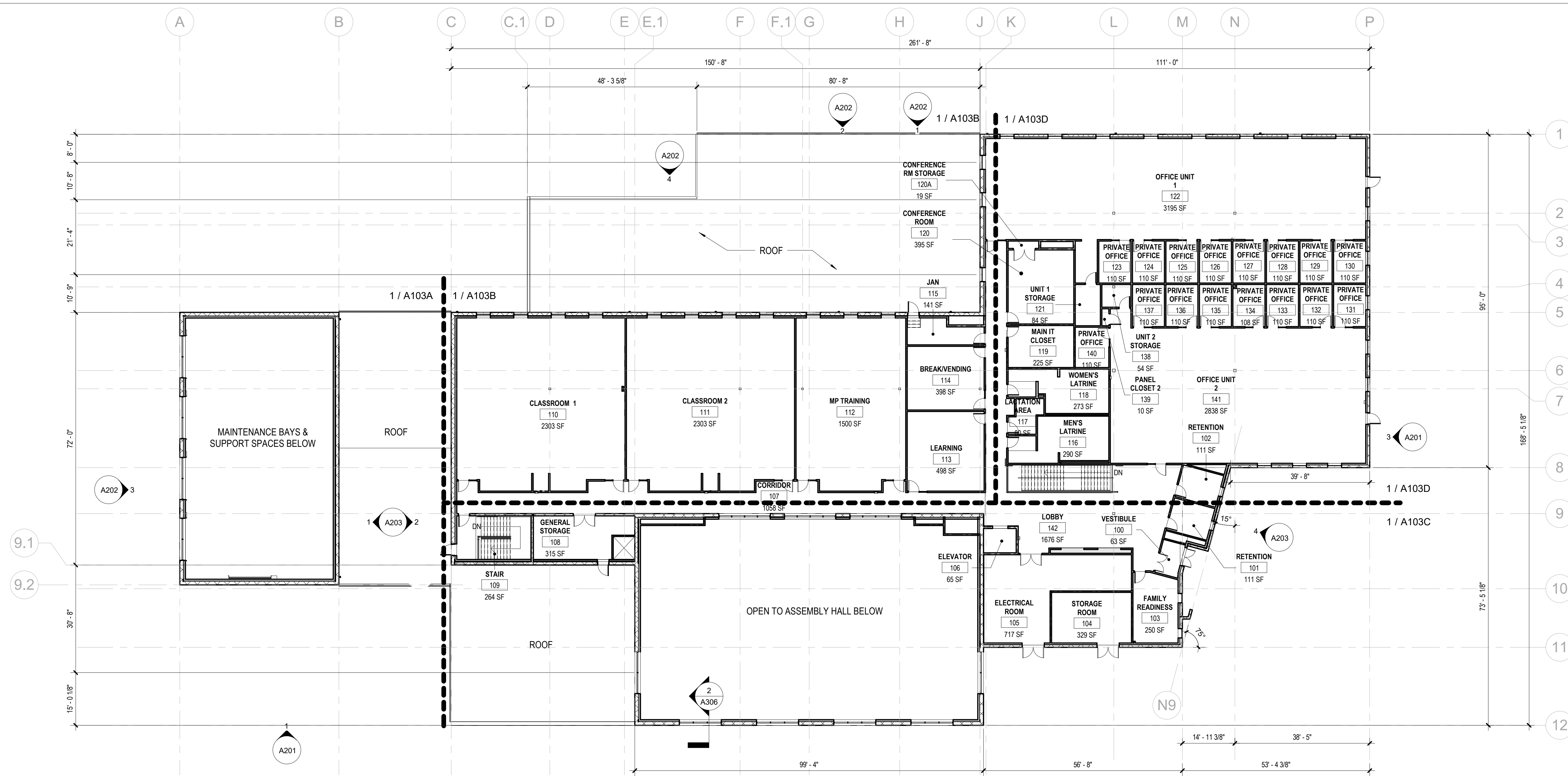
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NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: CSH/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
FIRST FLOOR PLAN -
OVERALL

SHEET NUMBER:
A103
103 OF 272 SHEETS
05/03/2024

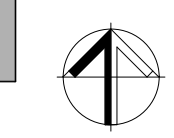
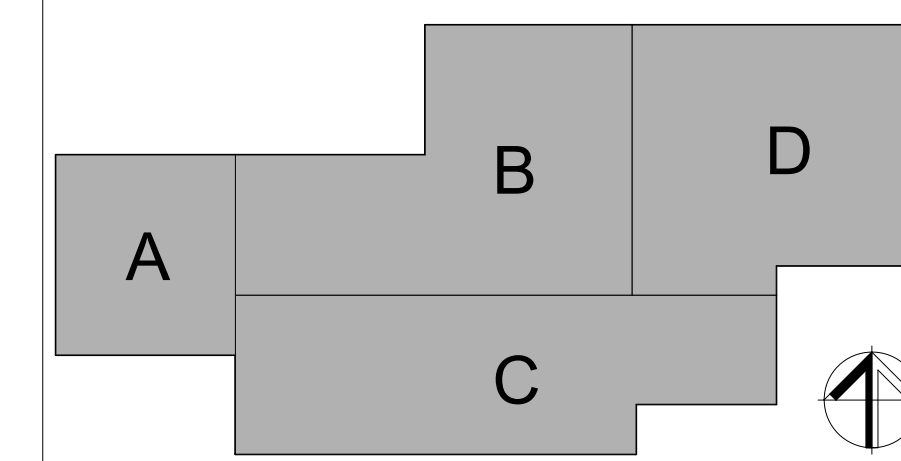


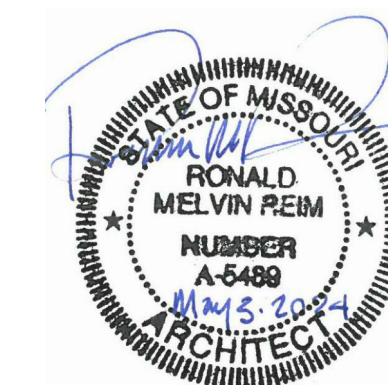
1 FIRST FLOOR PLAN - OVERALL
1/16" = 1'-0"

LEGEND

- NAME → ROOM NAME
- 1A34 → ROOM NUMBER
- 50 SF → AREA (SQ. FT.)
- ONE HOUR FIRE BARRIER CONSTRUCTION
- TWO HOUR FIRE BARRIER CONSTRUCTION

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NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION: _____
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DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

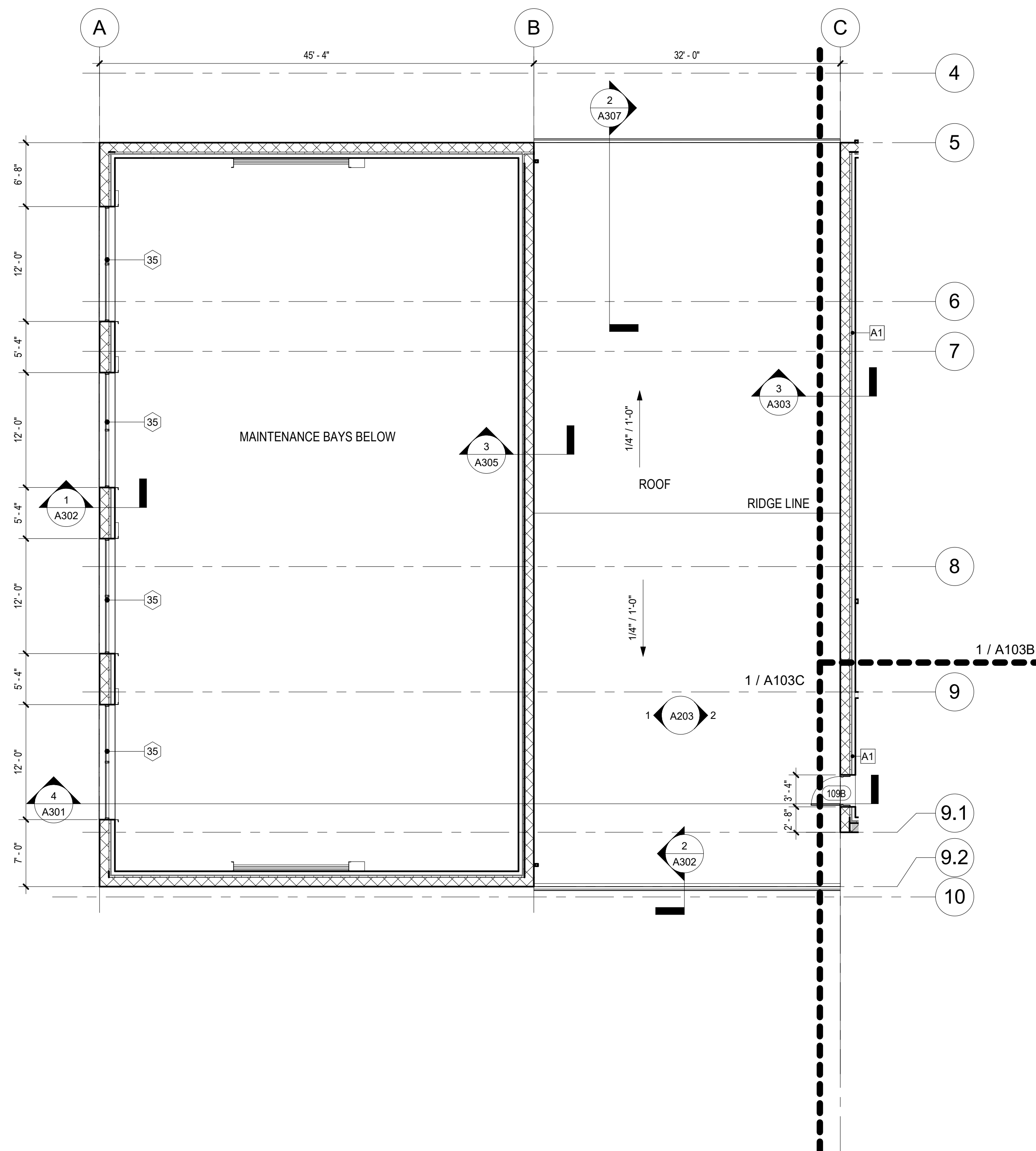
CAD DWG FILE: _____
DRAWN BY: JTK/CSH/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
FIRST FLOOR PLAN -
AREA A

SHEET NUMBER:

A103A

104 OF 272 SHEETS
05/03/2024



1 FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"

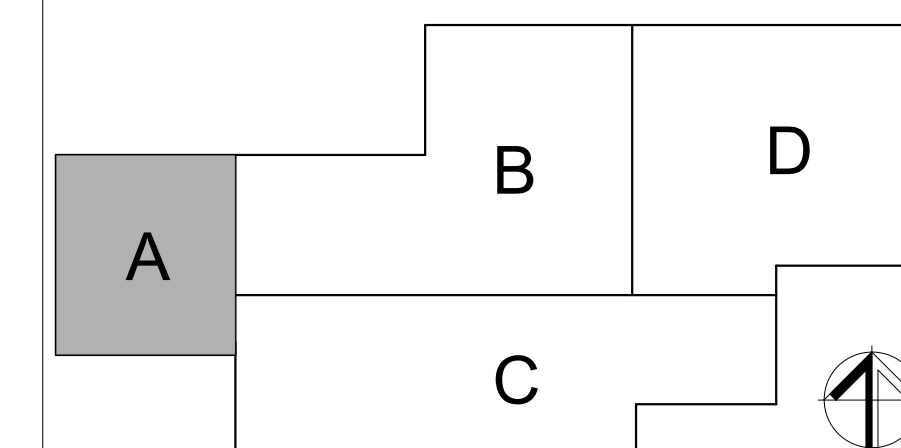
SHEET NOTES

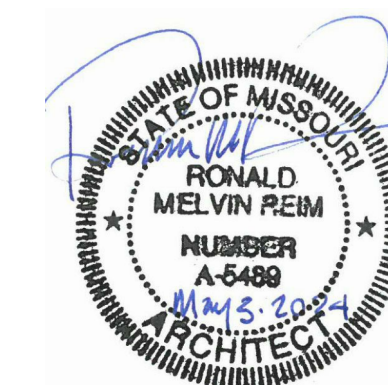
1. INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF GYPSUM BOARD AND CMU UNLESS OTHERWISE NOTED. WALLS TO RECEIVE AN ADDITIONAL FINISH (SUCH AS CERAMIC TILE) ARE DIMENSIONED TO THE FACE OF SUBSTRATE.
2. EXTERIOR FINISHES ARE DIMENSIONED TO FACE OF MATERIAL FINISH UNLESS OTHERWISE NOTED.
3. MEP EQUIPMENT IS SHOWN FOR REFERENCE ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
4. REFER TO CODES FOR TYPICAL MOUNTING HEIGHTS.
5. MOLD RESISTANT GYPSUM BOARD TO BE USED IN SHOWER ROOMS.
6. SEE A402 FOR EQUIPMENT SCHEDULE.
7. BLOCKING TO BE PROVIDED FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES.

LEGEND

NAME →	ROOM NAME
1A34 →	ROOM NUMBER
50 SF →	AREA (SQ. FT.)
	ONE HOUR FIRE BARRIER CONSTRUCTION
	TWO HOUR FIRE BARRIER CONSTRUCTION

KEY PLAN





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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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DATE:
REVISION:
DATE:
ISSUE DATE: 05/03/2024

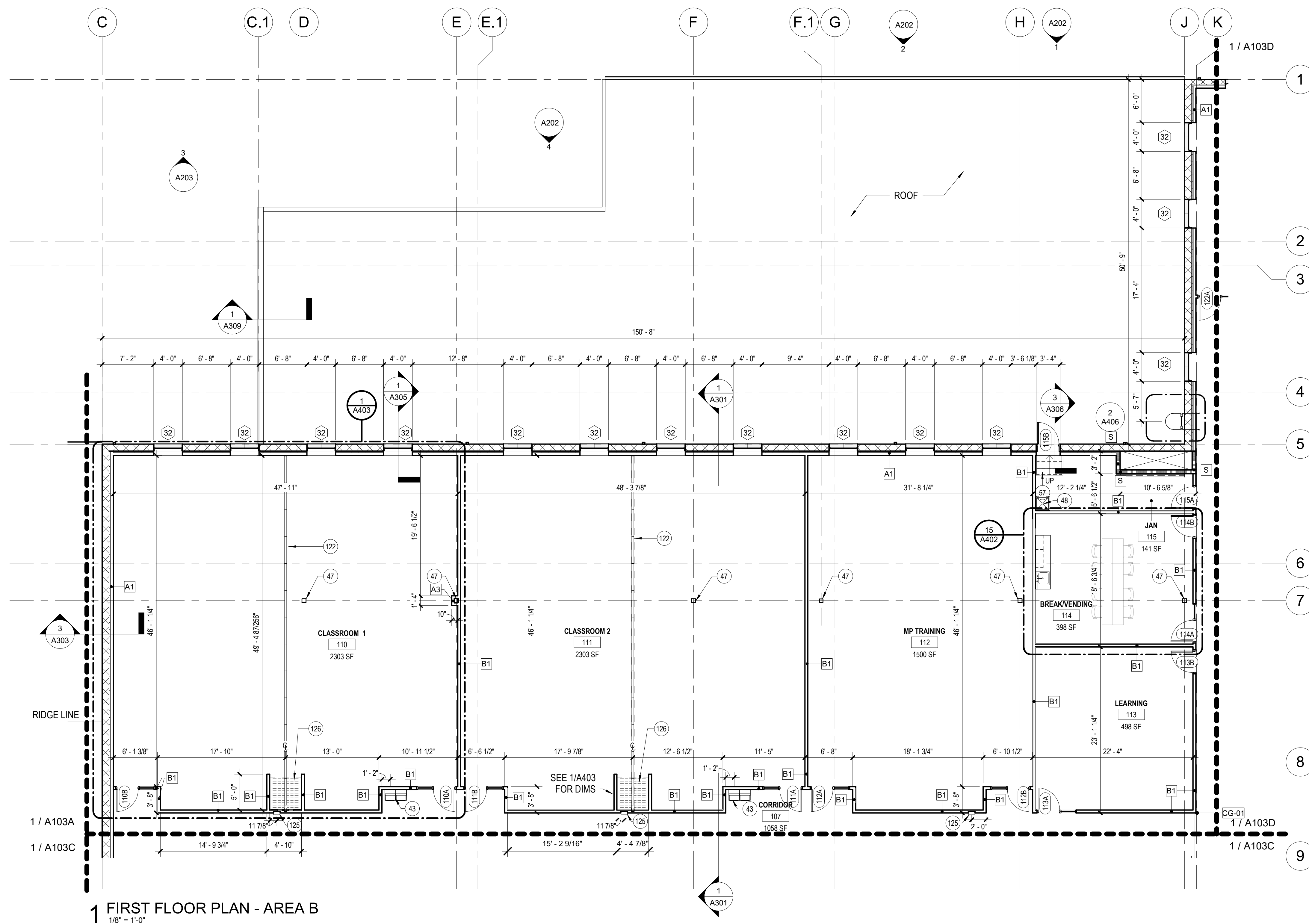
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DRAWN BY: JTK/CSH/JDW
CHECKED BY: JDS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
FIRST FLOOR PLAN -
AREA B

SHEET NUMBER:

A103B

105 OF 272 SHEETS
05/03/2024



1 FIRST FLOOR PLAN - AREA B
1/8" = 1'-0"

KEYNOTES

#	NOTE
43	HIGH/LOW ADA WALL MOUNTED DRINKING FOUNTAIN. REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
47	STRUCTURAL COLUMN. TYP. REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
48	MOP SINK BASIN. REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
57	STAIR TO ROOF ACCESS
122	OPERABLE MANUAL PARTITION
125	SEMI-RECESSED FIRE EXTINGUISHER CABINET
126	MANUAL OPERABLE PARTITION. SEE SPEC FOR ADDITIONAL INFORMATION.

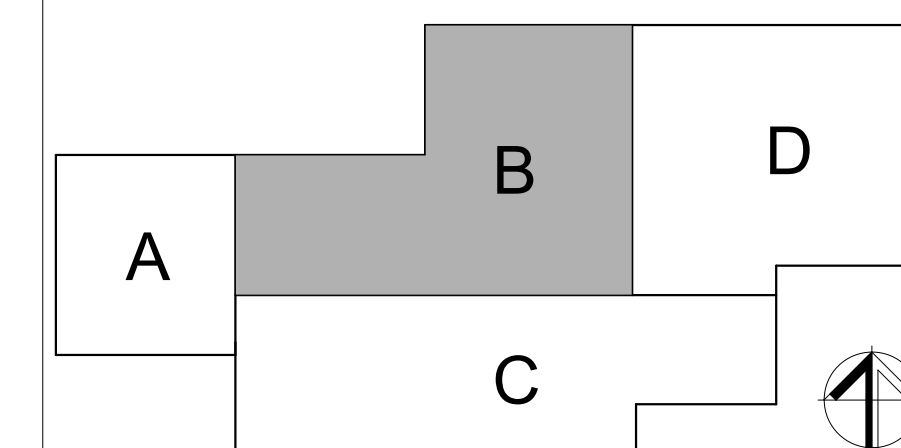
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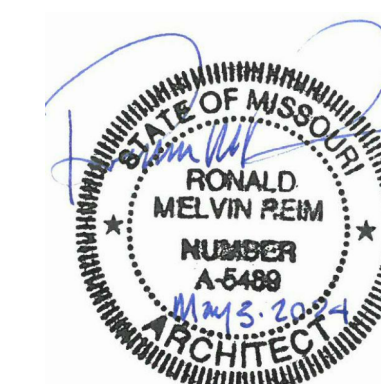
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- MEP EQUIPMENT IS SHOWN FOR REFERENCE ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO G306 FOR TYPICAL MOUNTING HEIGHTS.
- MOLD RESISTANT GYPSUM BOARD TO BE USED IN SHOWER ROOMS
- SEE A402 FOR EQUIPMENT SCHEDULE
- BLOCKING TO BE PROVIDED FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES.

LEGEND

- NAME** → ROOM NAME
1A34 → ROOM NUMBER
50 SF → AREA (SQ. FT.)
- ▬ ONE HOUR FIRE BARRIER CONSTRUCTION
 ▬ TWO HOUR FIRE BARRIER CONSTRUCTION

KEY PLAN





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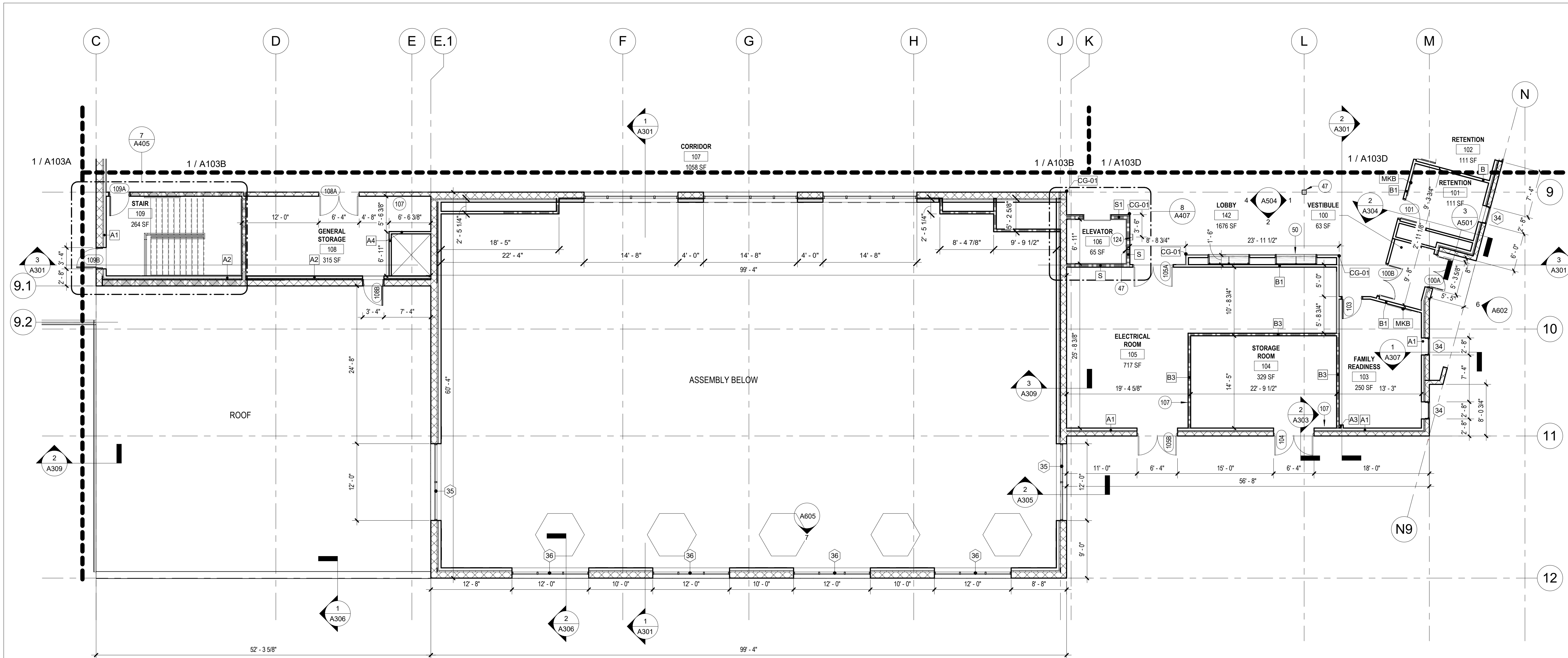
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NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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DATE:
ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: JTK/CSH/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
FIRST FLOOR PLAN -
AREA C

SHEET NUMBER:
A103C
106 OF 272 SHEETS
05/03/2024



1 FIRST FLOOR PLAN - AREA C
1/8" = 1'-0"

KEYNOTES

#	NOTE
47	STRUCTURAL COLUMN, TYP. REFERENCE STRUCTURAL FOR ADDITIONAL INFORMATION
50	NATIONAL GUARD DISPLAY CASES
107	UNIT HEATER, REFERENCE MECHANICAL FOR ADDITIONAL INFORMATION
124	SURFACE MOUNTED FIRE EXTINGUISHER CABINET

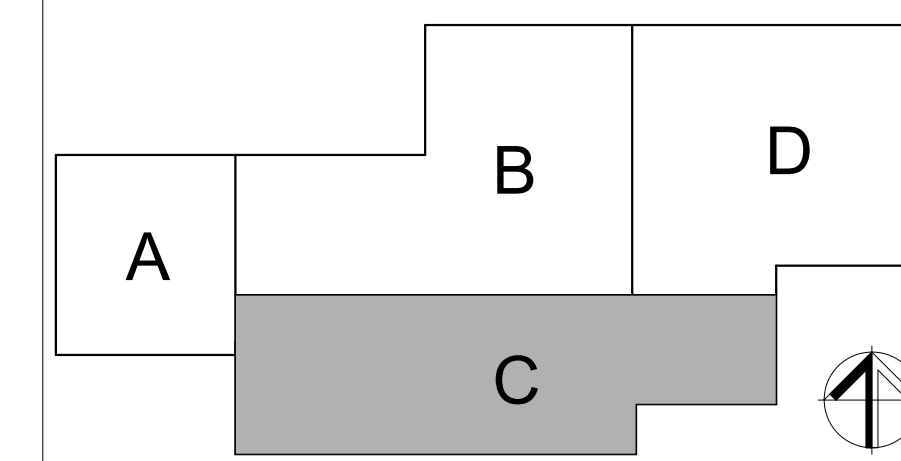
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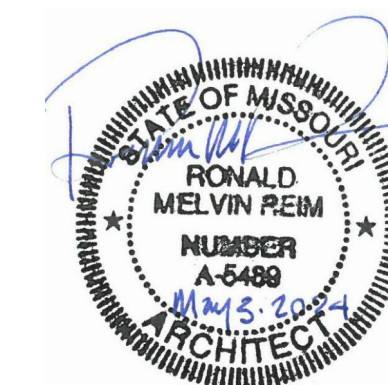
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- EXTERIOR FINISHES ARE DIMENSIONED TO FACE OF MATERIAL FINISH UNLESS OTHERWISE NOTED.
- MEP EQUIPMENT IS SHOWN FOR REFERENCE ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO C006 FOR TYPICAL MOUNTING HEIGHTS.
- MOLD RESISTANT GYPSUM BOARD TO BE USED IN SHOWER ROOMS.
- SEE A402 FOR EQUIPMENT SCHEDULE.
- BLOCKING TO BE PROVIDED FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES.

LEGEND

- NAME** → ROOM NAME
1A34 → ROOM NUMBER
50 SF → AREA (SQ. FT.)
- ONE HOUR FIRE BARRIER CONSTRUCTION
 ■ TWO HOUR FIRE BARRIER CONSTRUCTION

KEY PLAN





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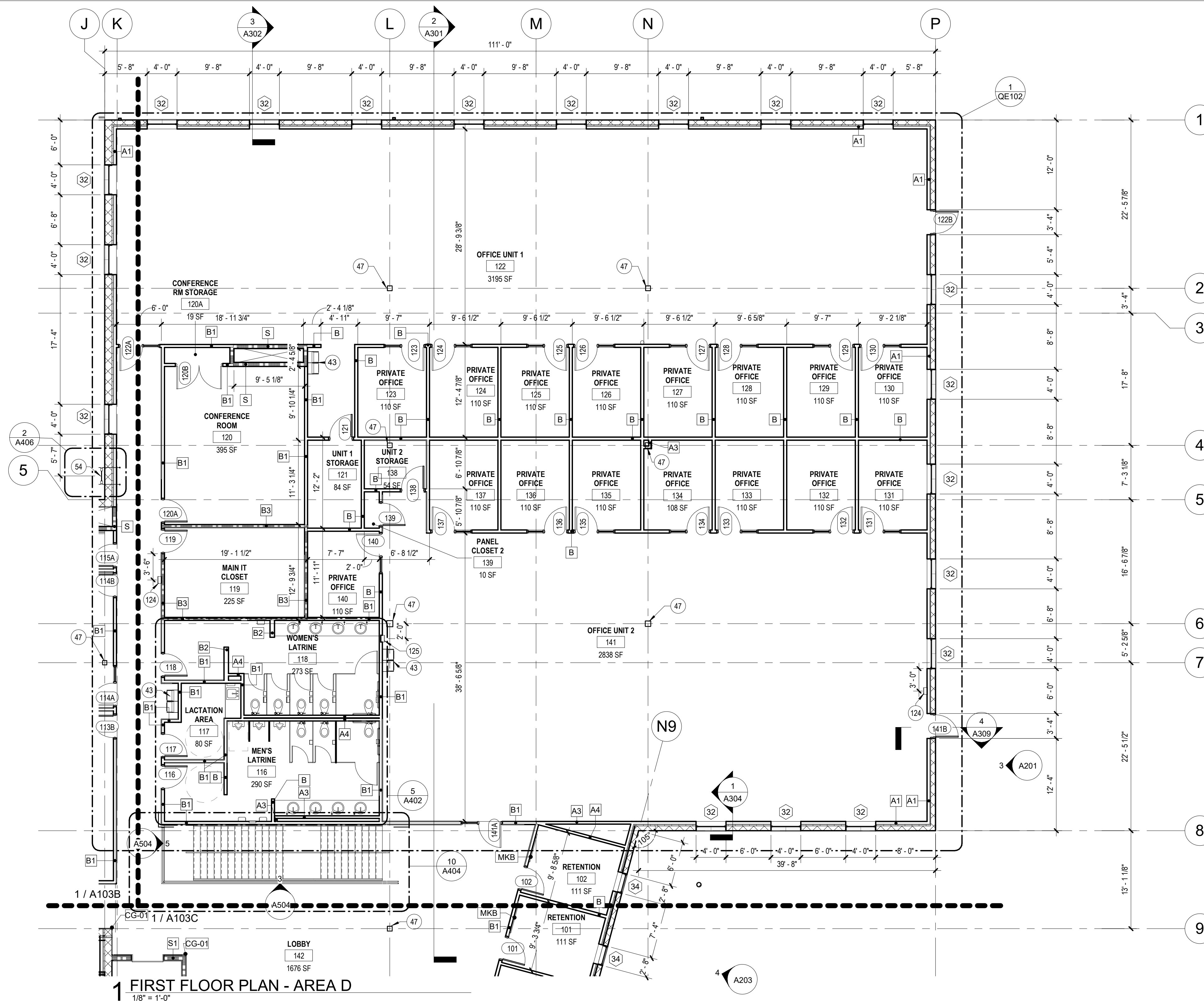
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DRAWN BY: JTK/CSH/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
FIRST FLOOR PLAN -
AREA D

SHEET NUMBER:

A103D

107 OF 272 SHEETS
05/03/2024



KEYNOTES

#	NOTE
43	HIGH LOW ADA WALL MOUNTED DRINKING FOUNTAIN. REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
47	STRUCTURAL COLUMN, TYP. REFERENCE STRUCTURAL FOR ADDITIONAL INFORMATION
54	EXTERIOR LOCKING CAGED ROOF ACCESS LADDER
124	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
125	SEMI-RECESSED FIRE EXTINGUISHER CABINET

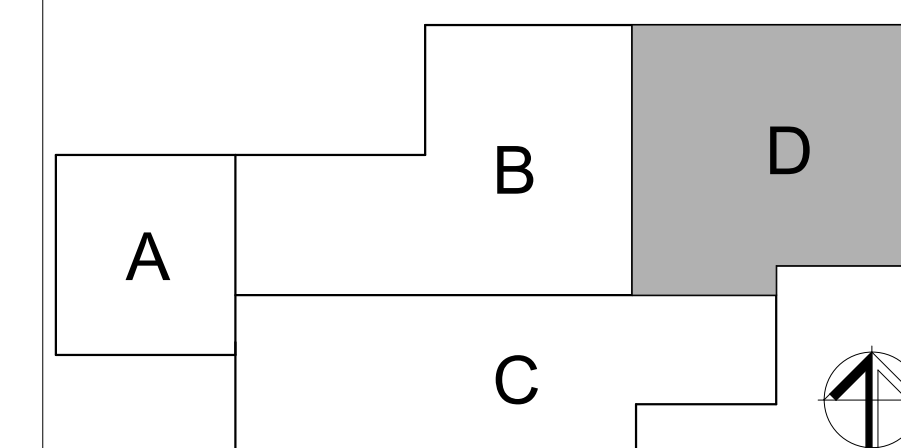
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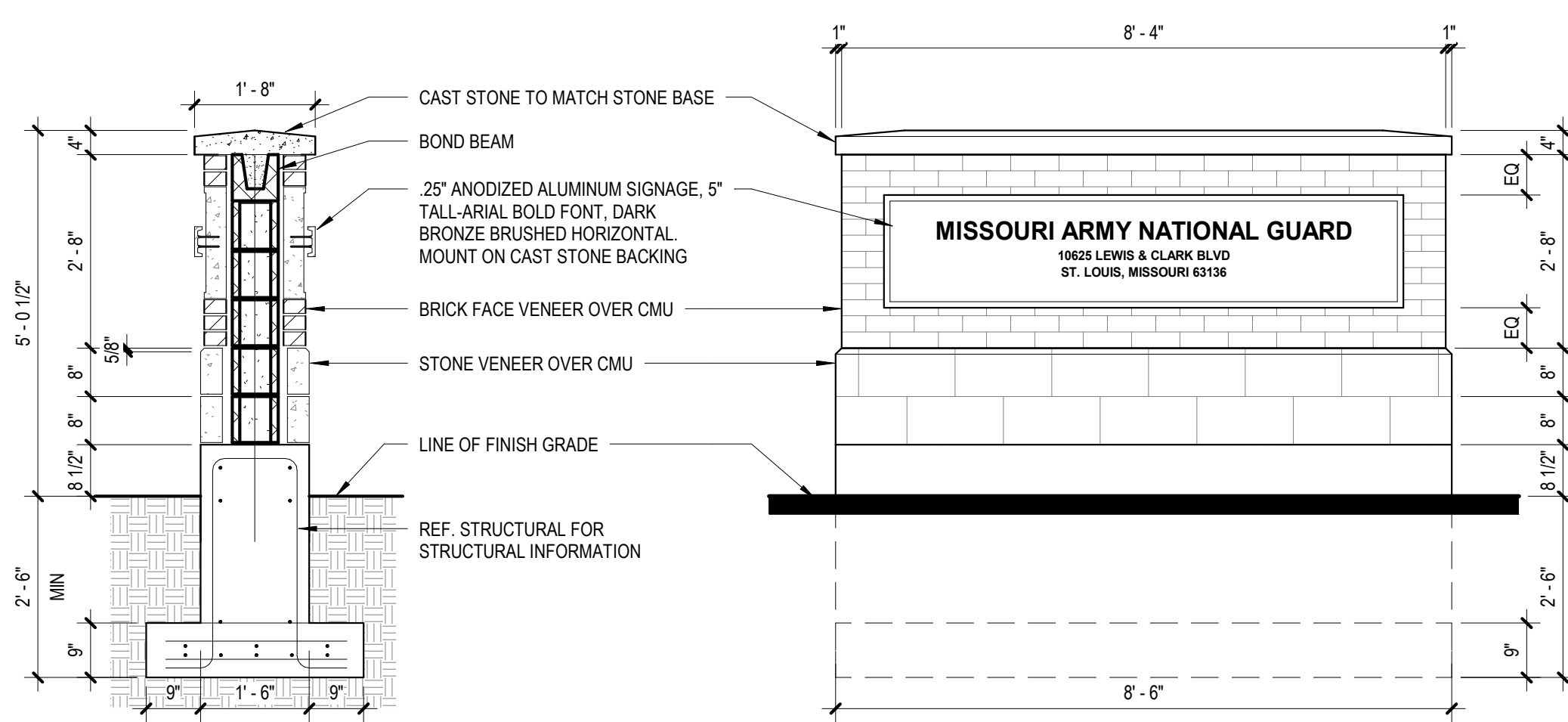
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- REFER TO G006 FOR TYPICAL MOUNTING HEIGHTS.
- MOLD RESISTANT GYPSUM BOARD TO BE USED IN SHOWER ROOMS
- SEE A402 FOR EQUIPMENT SCHEDULE
- BLOCKING TO BE PROVIDED FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES.

LEGEND

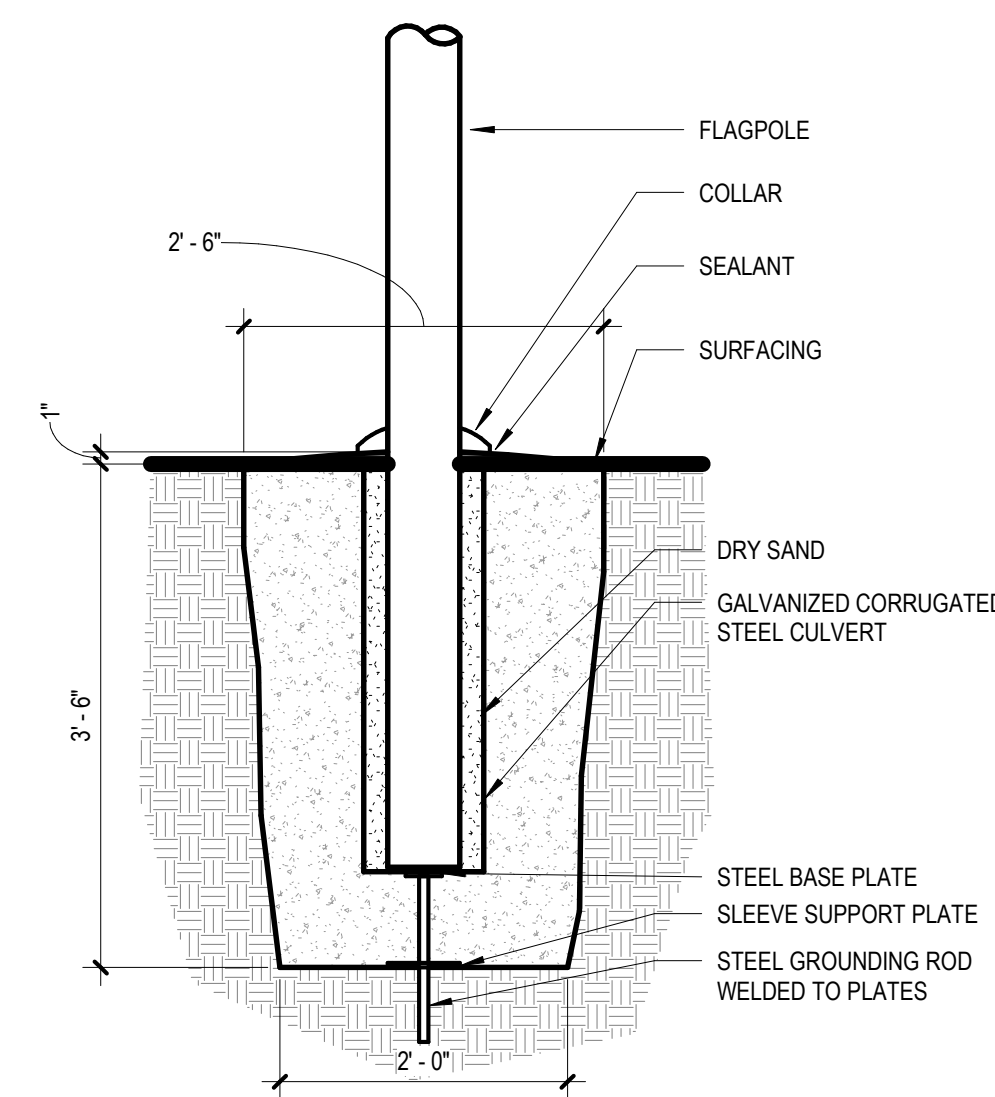
NAME	ROOM NAME
1A34	ROOM NUMBER
50 SF	AREA (SQ. FT.)
[Pattern]	ONE HOUR FIRE BARRIER CONSTRUCTION
[Pattern]	TWO HOUR FIRE BARRIER CONSTRUCTION

KEY PLAN

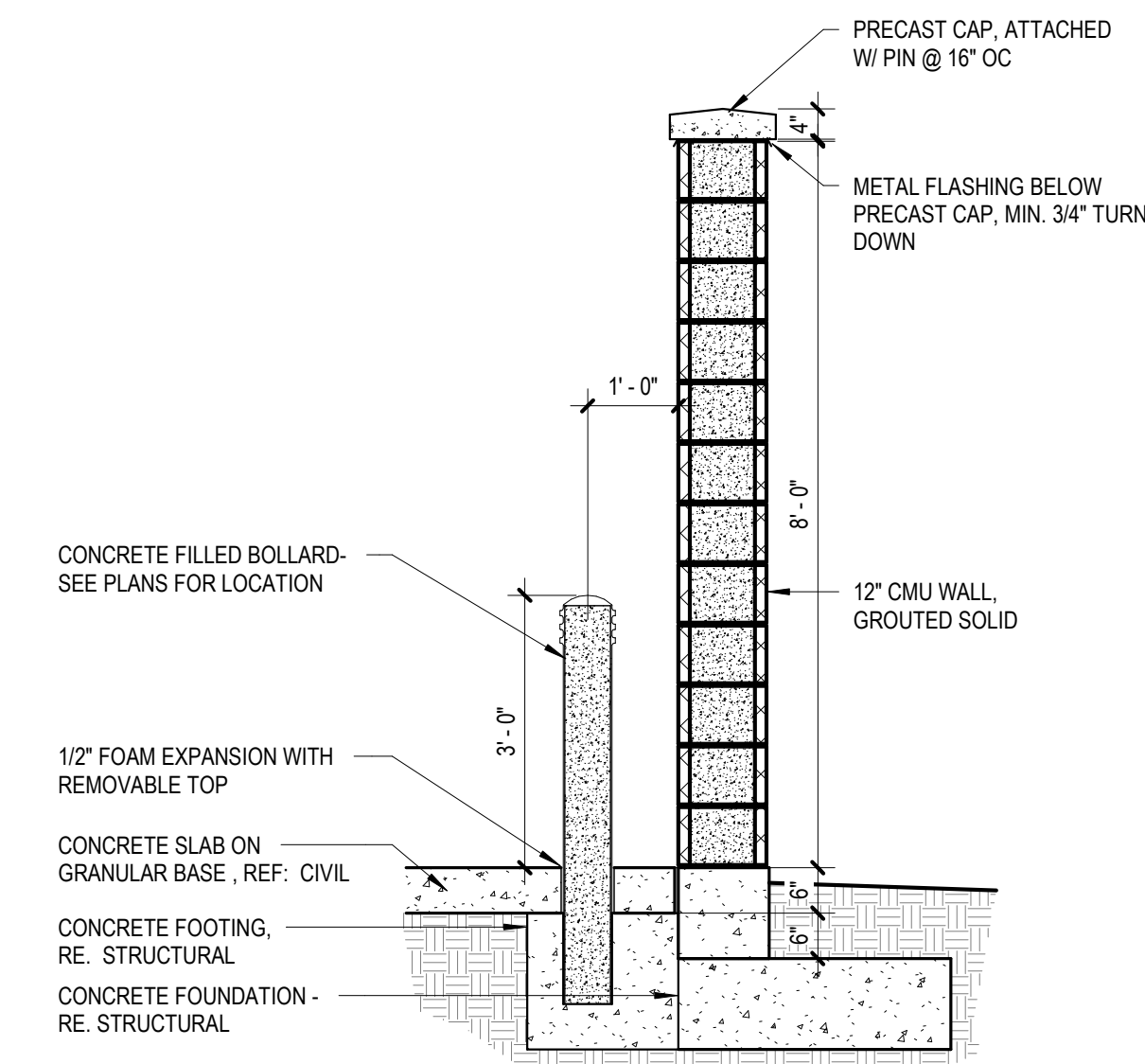




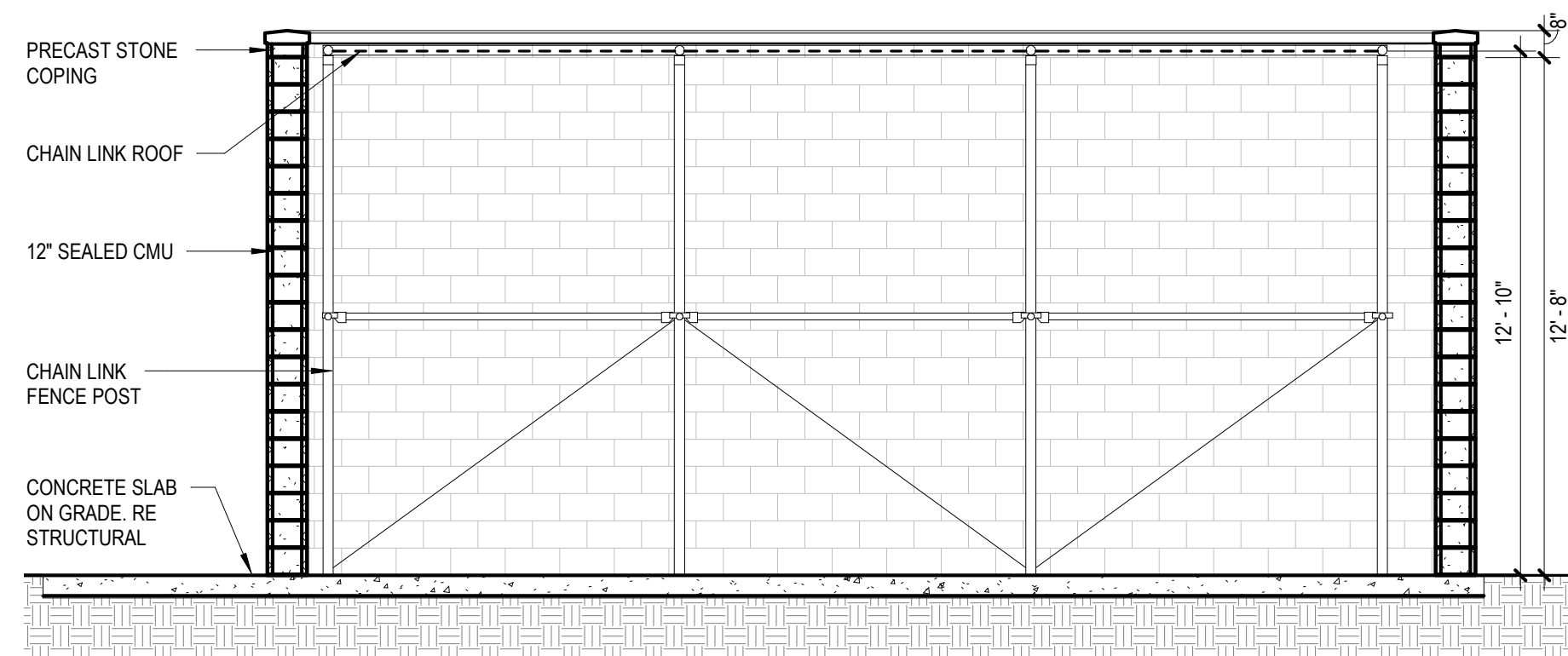
1 MONUMENT SIGN SECTION AND ELEVATION
1/2" = 1'-0"



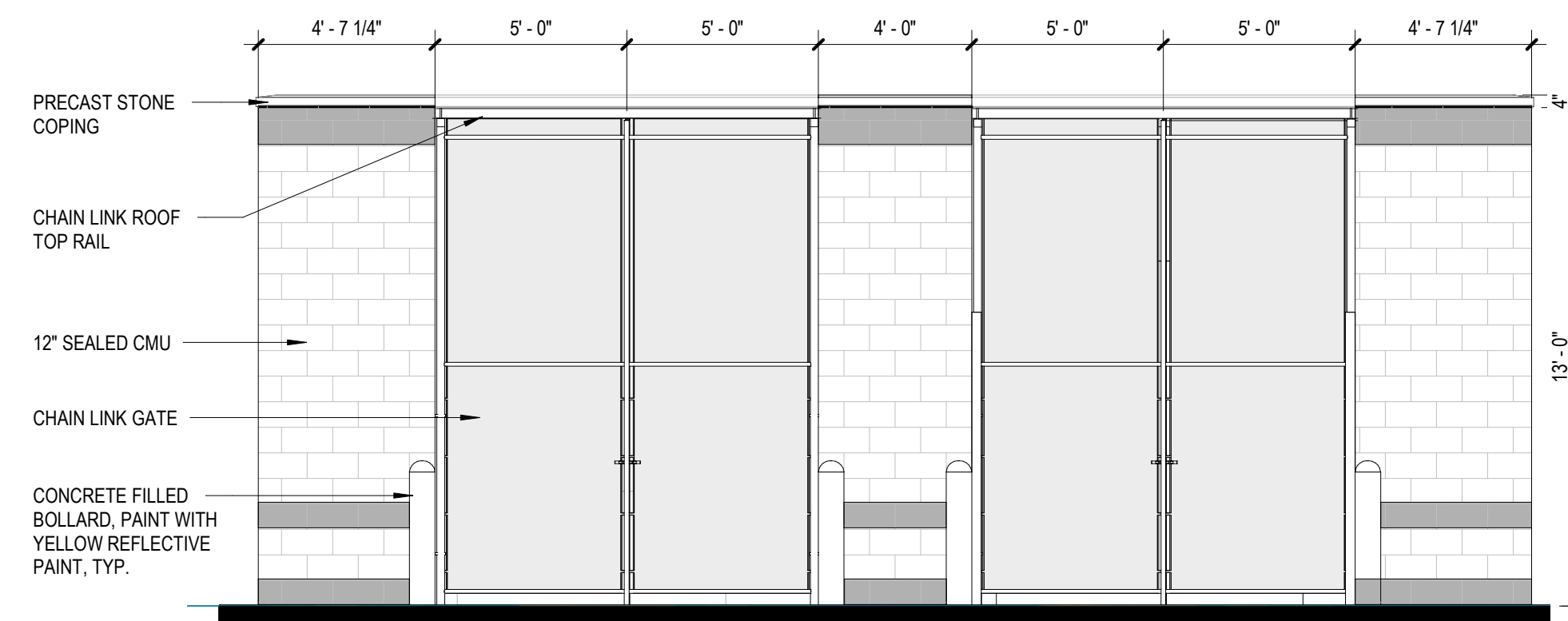
10 FLAG POLE DETAIL
3/4" = 1'-0"



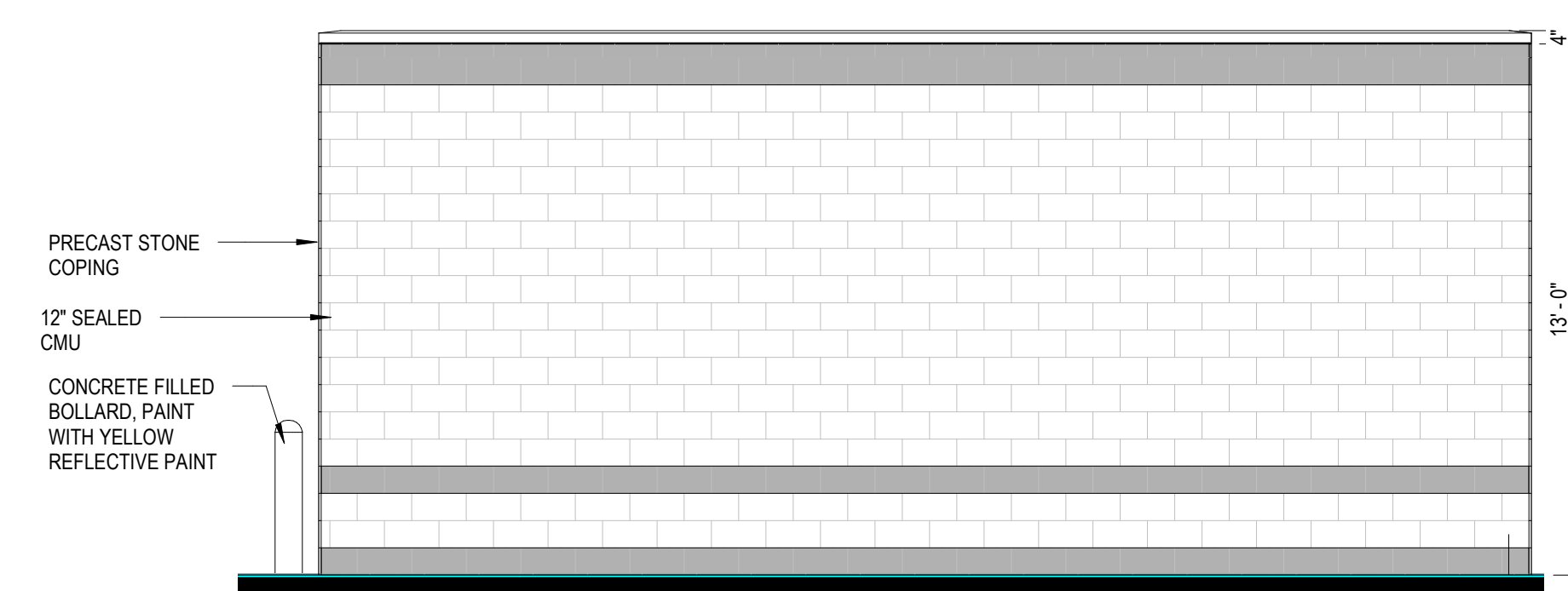
2 TRASH ENCLOSURE WALL DETAIL
1/2" = 1'-0"



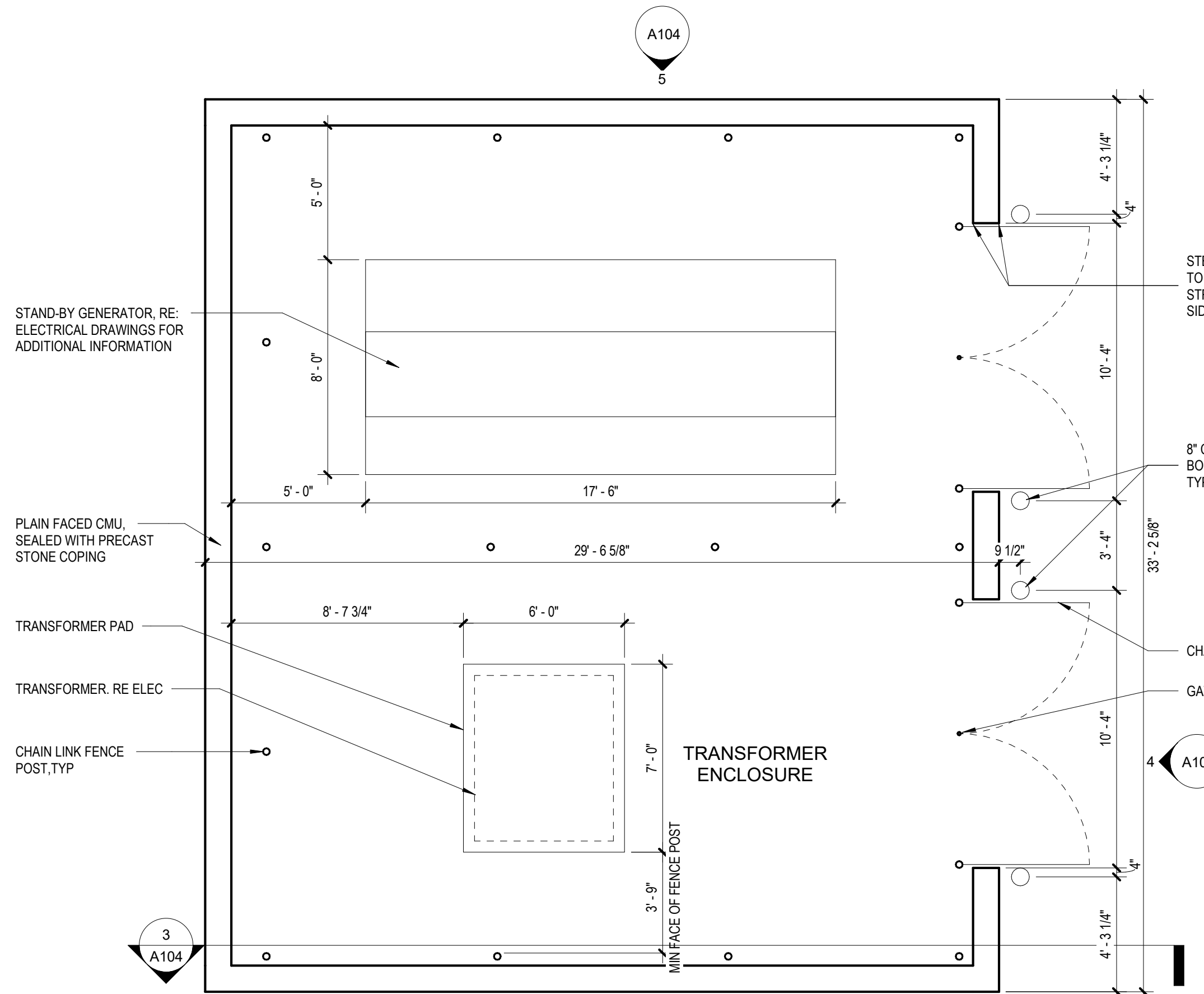
3 TRANSFORMER ENCLOSURE SECTION
1/4" = 1'-0"



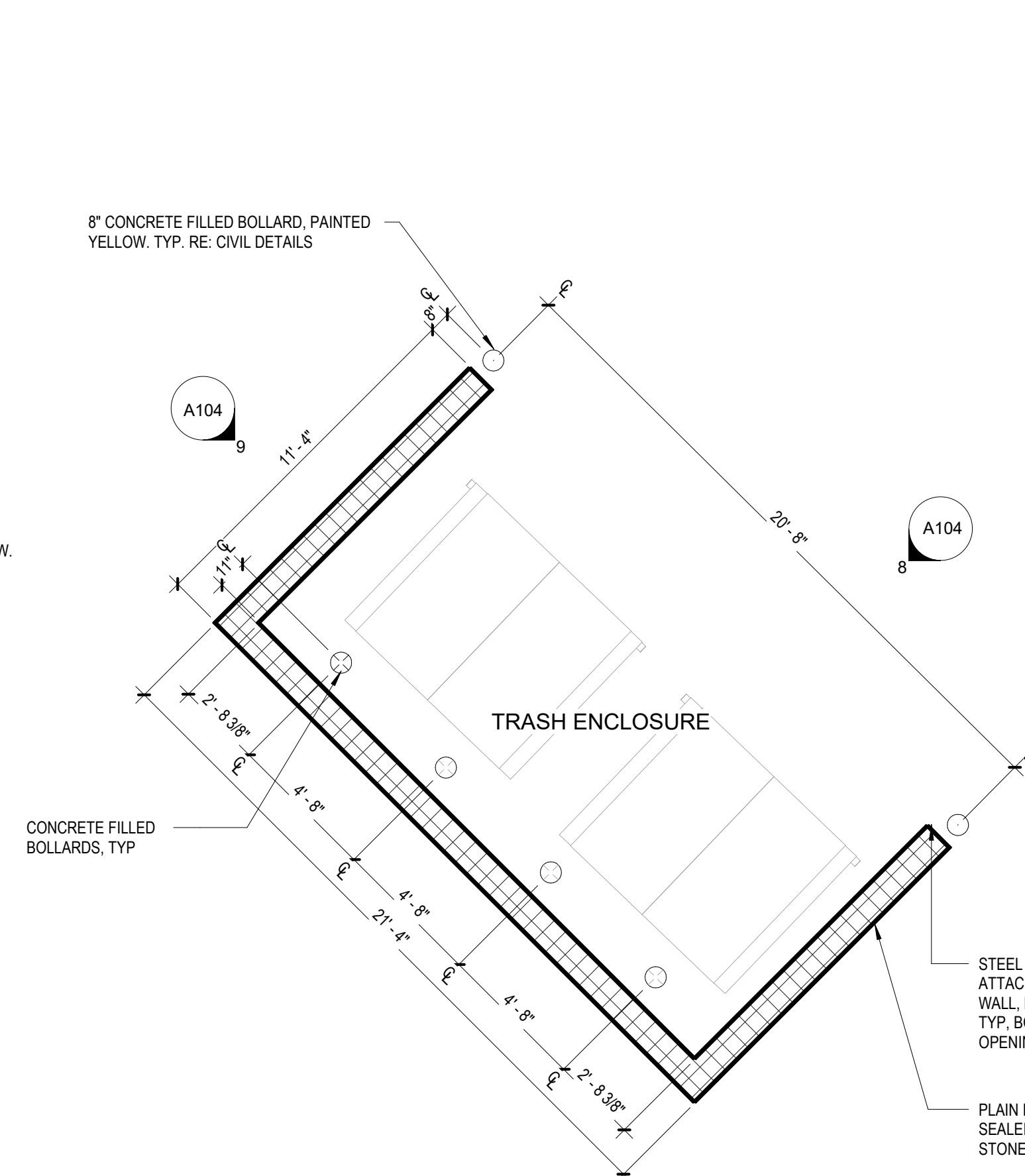
4 TRANSFORMER ENCLOSURE ELEVATION
1/4" = 1'-0"



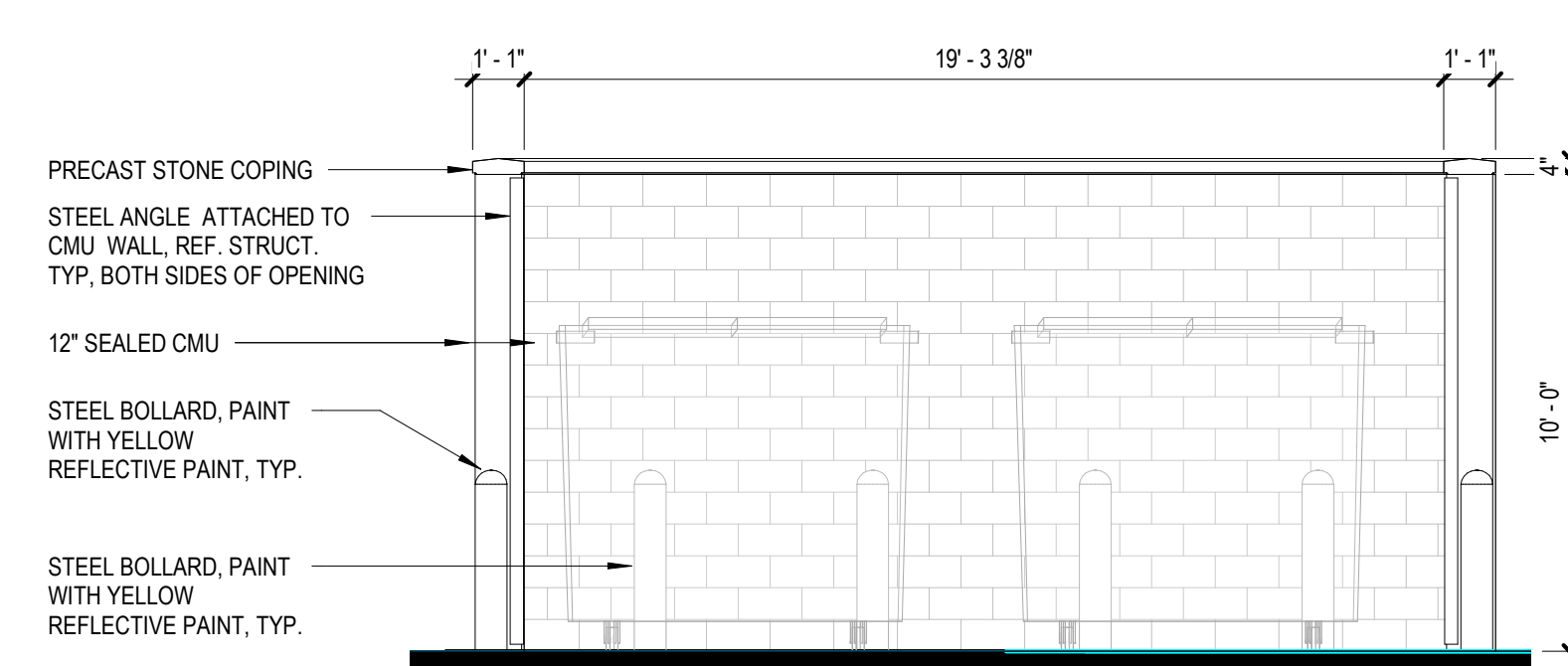
5 EXTERIOR ELEVATION - TRANSFORMER ENCLOSURE
1/4" = 1'-0"



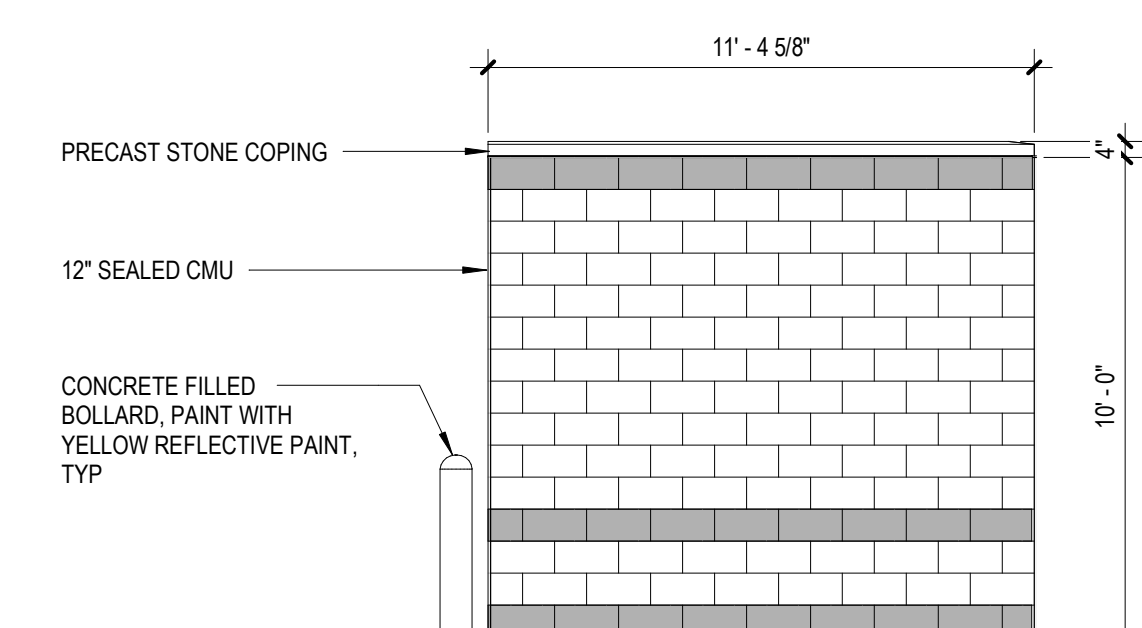
6 ENLARGED PLAN - TRANSFORMER ENCLOSURE
1/4" = 1'-0"



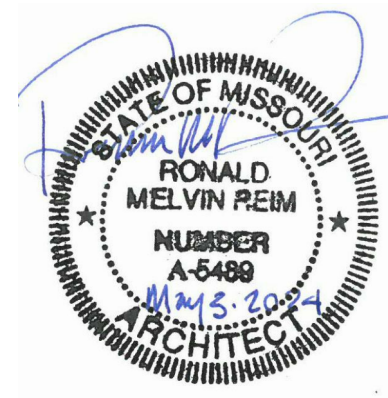
7 ENLARGED PLAN - TRASH ENCLOSURE
1/4" = 1'-0"



8 TRASH ENCLOSURE ELEVATION - FRONT
1/4" = 1'-0"



9 TRASH ENCLOSURE ELEVATION - SIDE
1/4" = 1'-0"



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DATE:
ISSUE DATE: 05/03/2024

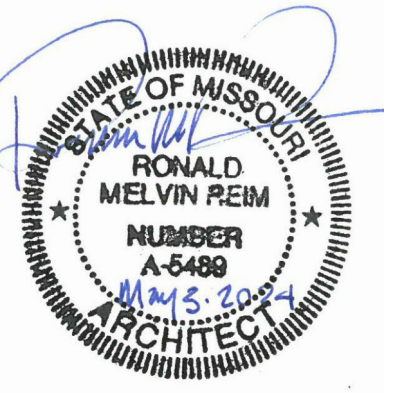
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DRAWN BY: JDWCJK
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
SITE ENCLOSURES
AND MONUMENT
SIGN

SHEET NUMBER:

A104

108 OF 272 SHEETS
05/03/2024



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Professional Seal of Ronald Melvin Reim, Architect, No. A-5489



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
www.oatesassociates.com



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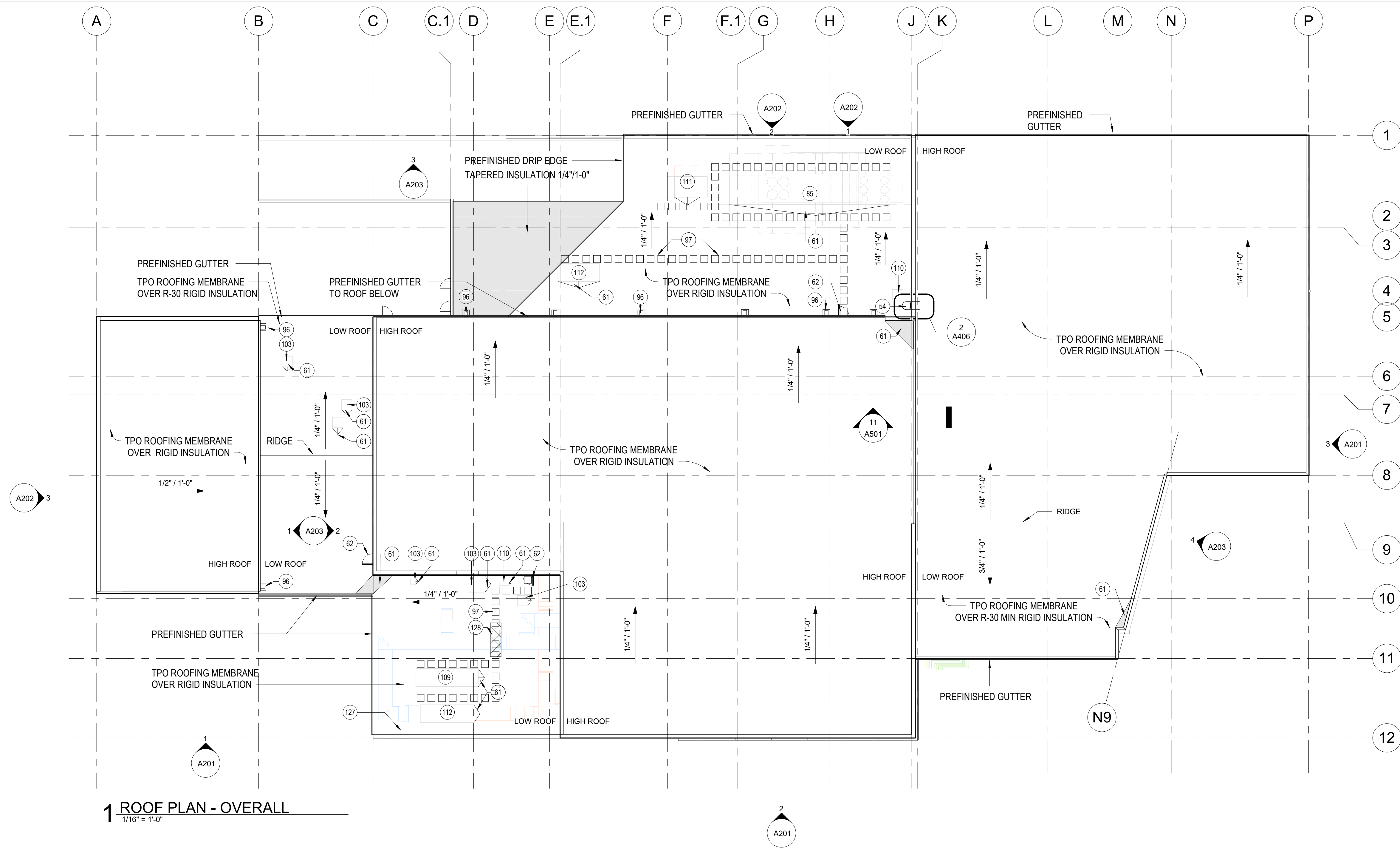
PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: CSH/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ARCHITECTURAL
ROOF PLAN -
OVERALL

SHEET NUMBER:
A105
109 OF 272 SHEETS
05/03/2024



1 ROOF PLAN - OVERALL
1/16" = 1'-0"

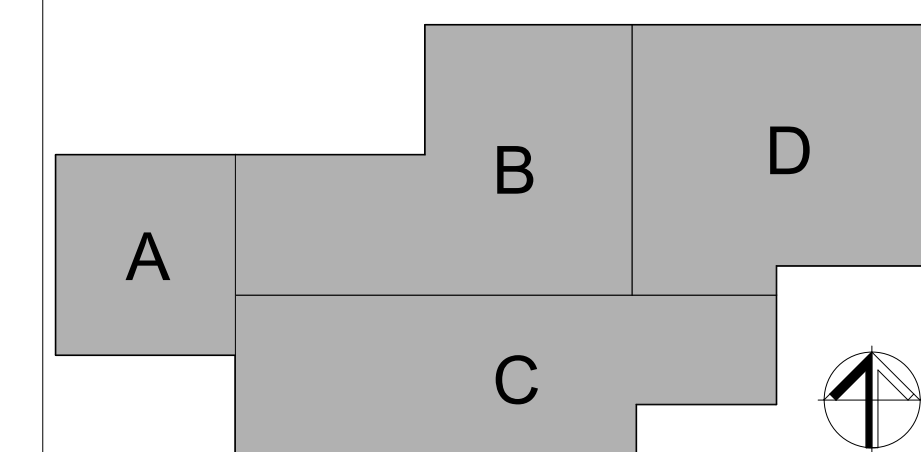
KEYNOTES

#	NOTE
54	EXTERIOR LOCKING CAGED ROOF ACCESS LADDER
61	TAPERED INSULATION ROOF CRICKET
62	ROOF ACCESS DOOR FROM FIRST FLOOR
65	MECHANICAL ROOF TOP EQUIPMENT; REFERENCE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION
96	SPLASH BLOCK ON TPO ROOF WITH PAD BELOW.
97	TPO WALKPADS
103	EXHAUST FAN; REFERENCE MECHANICAL FOR ADDITIONAL INFORMATION
109	MAKE-UP AIR UNIT; REFERENCE MECHANICAL FOR ADDITIONAL INFORMATION
110	CONDENSING UNIT; REFERENCE MECHANICAL FOR ADDITIONAL INFORMATION
111	ENERGY RECOVERY UNIT; REFERENCE MECHANICAL FOR ADDITIONAL INFORMATION
112	AIR-HANDLING UNIT; REFERENCE MECHANICAL FOR ADDITIONAL INFORMATION
128	PREMANUFACTURED PLATFORM LADDER; REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SHEET NOTES

1. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL EQUIPMENT AND PLUMBING VENT LOCATIONS.

KEY PLAN





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(314) 367-6100



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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE:
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REVISION:
DATE:
ISSUE DATE: 05/03/2024

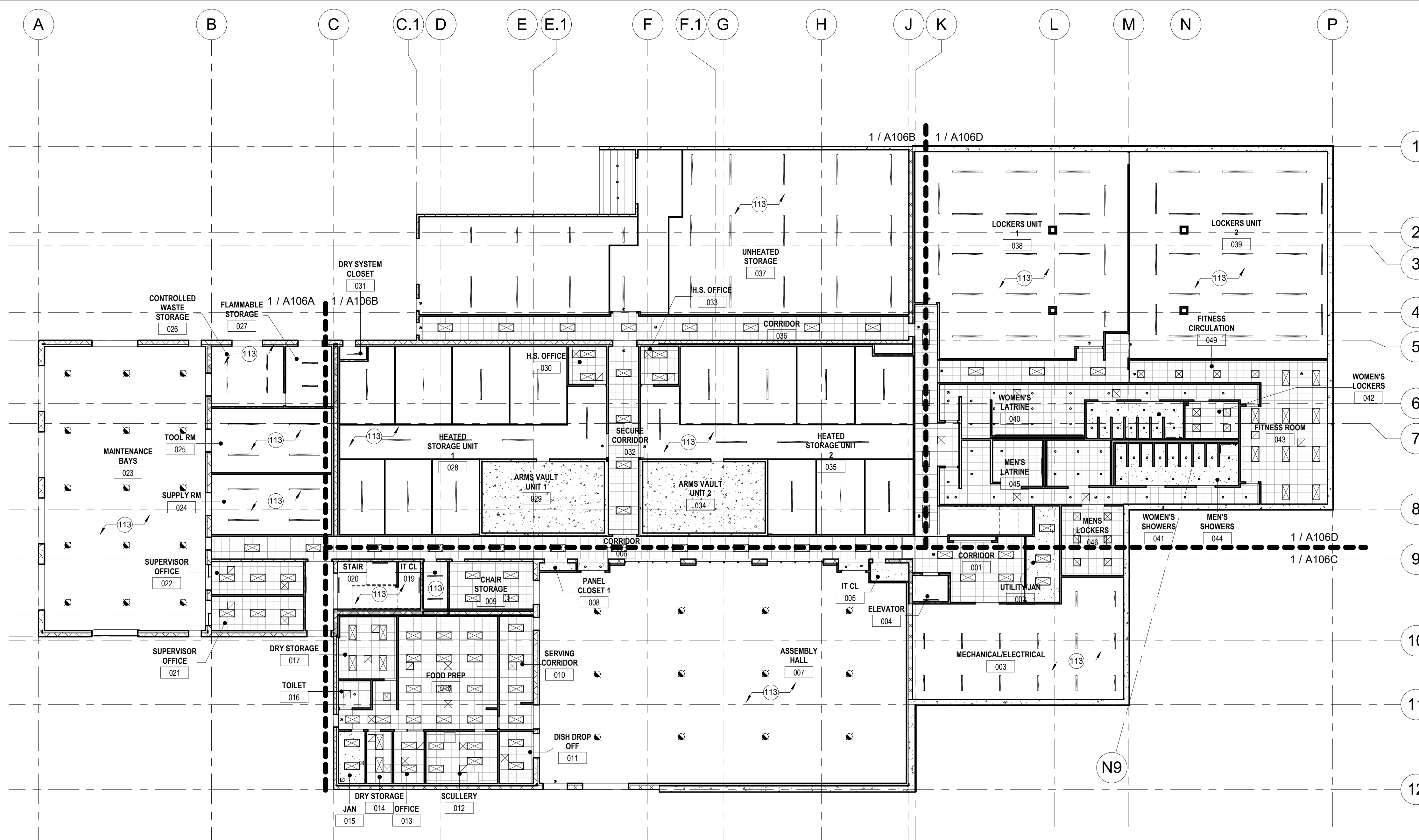
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DRAWN BY: CJK/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
**LOWER LEVEL
REFLECTED CEILING
PLAN**

SHEET NUMBER:

A106

110 OF 272 SHEETS
05/03/2024



1 LOWER LEVEL REFLECTED CEILING PLAN
1/16" = 1'-0"

LEGEND

	NEW 2' 0" x 2' 0" SUSPENDED ACOUSTICAL CEILING GRID AND PADS; REFER TO SPECIFICATIONS AND INTERIOR FINISH LEGEND AND SCHEDULE		EXPOSED CONSTRUCTION
	GYP-1, NEW GYPSUM BOARD SUSPENDED CEILING OR SOFFIT (PAINTED); REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	NEW CONCRETE TOP CEILING, REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	ALUMINUM PLANK SOFFIT		
	2' 0" x 4' 0" LED LIGHT FIXTURE		2' 0" x 2' 0" LED LIGHT FIXTURE
	4' 0" x 8' 0" LED STRIP LIGHT FIXTURE		4' 0" x 4' 0" LED STRIP LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE		4' 0" LOBBY DECORATIVE LIGHTING FIXTURE
	WALL MOUNTED LIGHT FIXTURE		RECESSED DOWN LIGHT FIXTURE
	SUPPLY AIR DIFFUSER		EXIT SIGN
	EXHAUST FAN DIFFUSER		RETURN AIR EXHAUST DIFFUSER

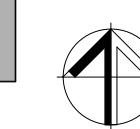
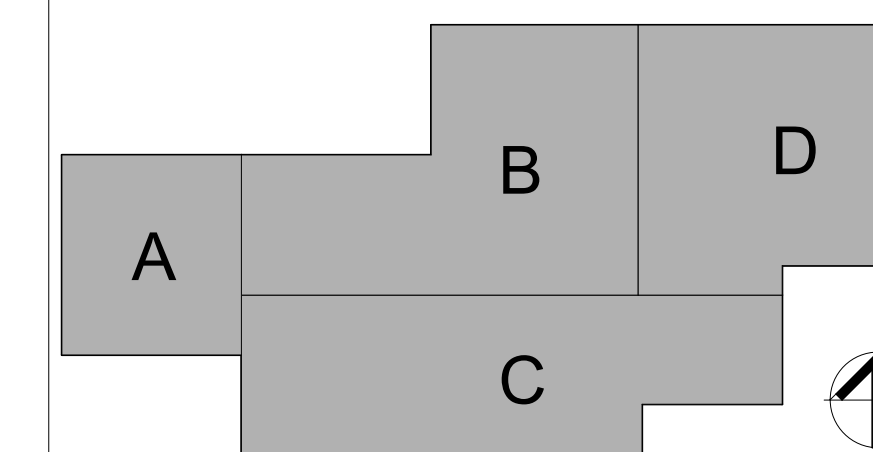
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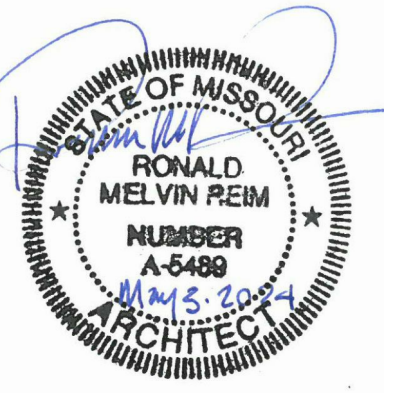
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2. REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3. REFER TO FLOOR PLAN FOR PARTITION TYPES NOT SHOWN.
4. COORDINATE KITCHEN HOOD OPENINGS IN CEILING WITH MEP DRAWINGS.
5. REFER TO SHEET AS02 FOR TYPICAL CEILING DETAILS.
6. CONTRACTOR SHALL COORDINATE ALL STRUCTURAL, PLUMBING, MECHANICAL, FIRE PROTECTION AND ELECTRICAL WORK WITH CEILING HEIGHTS AND ARCHITECTURAL WORK.
7. ALL CEILING MOUNTED OR RECESSED ITEMS INDICATED OR NOT INDICATED ON REFLECTED CEILING PLAN SUCH AS SPEAKERS, GRILLES, LIGHTS, ETC., SHALL BE CENTERED IN THE LAY-IN PANELS. AT GYPSUM BOARD CEILINGS INSTALL IN A CONSISTENT PATTERN.
8. NOTIFY ARCHITECT/ENGINEER OF ALL ITEMS NOT SHOWN ON THE REFLECTED CEILING PLAN AND LOCATE PER ARCHITECT/ENGINEER'S DIRECTION.
9. ALL CEILING GRIDS TO BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED.

KEYNOTES

#	NOTE
113	EXPOSED TO STRUCTURE ABOVE

KEY PLAN





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(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
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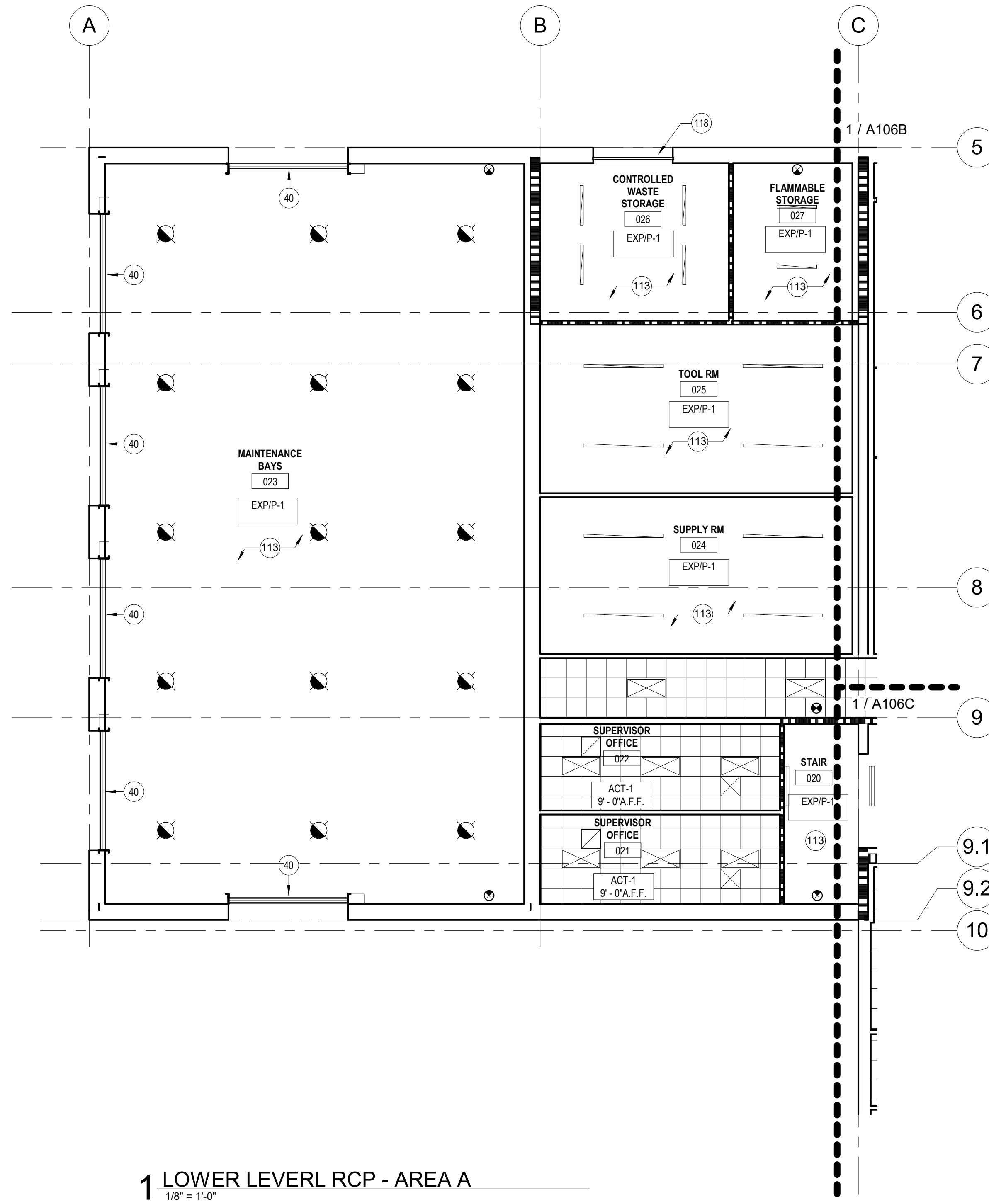
PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: CJK/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
LOWER LEVEL
REFLECTED CEILING
PLAN - AREA A

SHEET NUMBER:
A106A
111 OF 272 SHEETS
05/03/2024



1 LOWER LEVEL RCP - AREA A
1/8" = 1'-0"

LEGEND

	NEW 2' 0" x 2' 0" SUSPENDED ACOUSTICAL CEILING GRID AND PADS; REFER TO SPECIFICATIONS AND INTERIOR FINISH LEGEND AND SCHEDULE		EXPOSED CONSTRUCTION
	GYP-1, NEW GYPSUM BOARD SUSPENDED CEILING OR SOFFIT (PAINTED); REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	NEW CONCRETE TOP CEILING; REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	ALUMINUM PLANK SOFFIT		
	2' 0" x 4' 0" LED LIGHT FIXTURE		2' 0" x 2' 0" LED LIGHT FIXTURE
	4' x 8' 0" LED STRIP LIGHT FIXTURE		4' x 4' 0" LED STRIP LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE		4' 0" LOBBY DECORATIVE LIGHTING FIXTURE
	WALL MOUNTED LIGHT FIXTURE		RECESSED DOWN LIGHT FIXTURE
	SUPPLY AIR DIFFUSER		EXIT SIGN
	EXHAUST FAN DIFFUSER		RETURN AIR EXHAUST DIFFUSER

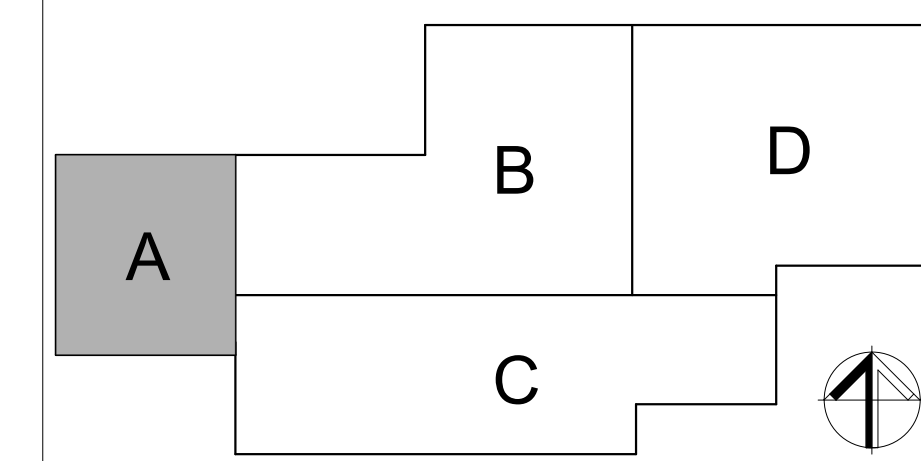
SHEET NOTES

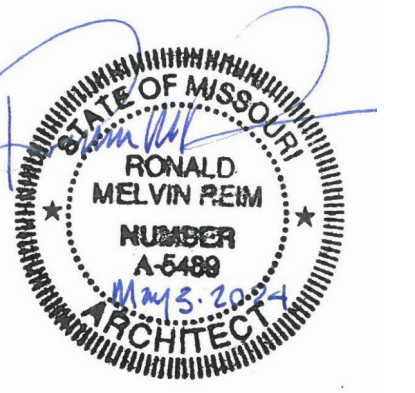
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2. REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3. REFER TO FLOOR PLAN FOR PARTITION TYPES NOT SHOWN.
4. COORDINATE KITCHEN HOOD OPENINGS IN CEILING WITH MEP DRAWINGS.
5. REFER TO SHEET A502 FOR TYPICAL CEILING DETAILS.
6. CONTRACTOR SHALL COORDINATE ALL STRUCTURAL, PLUMBING, MECHANICAL, FIRE PROTECTION AND ELECTRICAL WORK WITH CEILING HEIGHTS AND ARCHITECTURAL WORK.
7. ALL CEILING MOUNTED OR RECESSED ITEMS INDICATED OR NOT INDICATED ON REFLECTED CEILING PLAN SUCH AS SPEAKERS, GRILLES, LIGHTS, ETC., SHALL BE CENTERED IN THE LAY-IN PANELS. AT GYPSUM BOARD CEILINGS INSTALL IN A CONSISTENT PATTERN.
8. NOTIFY ARCHITECT/ENGINEER OF ALL ITEMS NOT SHOWN ON THE REFLECTED CEILING PLAN AND LOCATE PER ARCHITECT/ENGINEER'S DIRECTION.
9. ALL CEILING GRIDS TO BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED.

KEYNOTES

#	NOTE
40	BLAST RESISTANT, INSULATED SECTIONAL OVERHEAD DOOR, TYP.
113	EXPOSED TO STRUCTURE ABOVE
118	OVERHEAD DOOR AND TRACK

KEY PLAN





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SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
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ST. LOUIS, MO 63119
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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

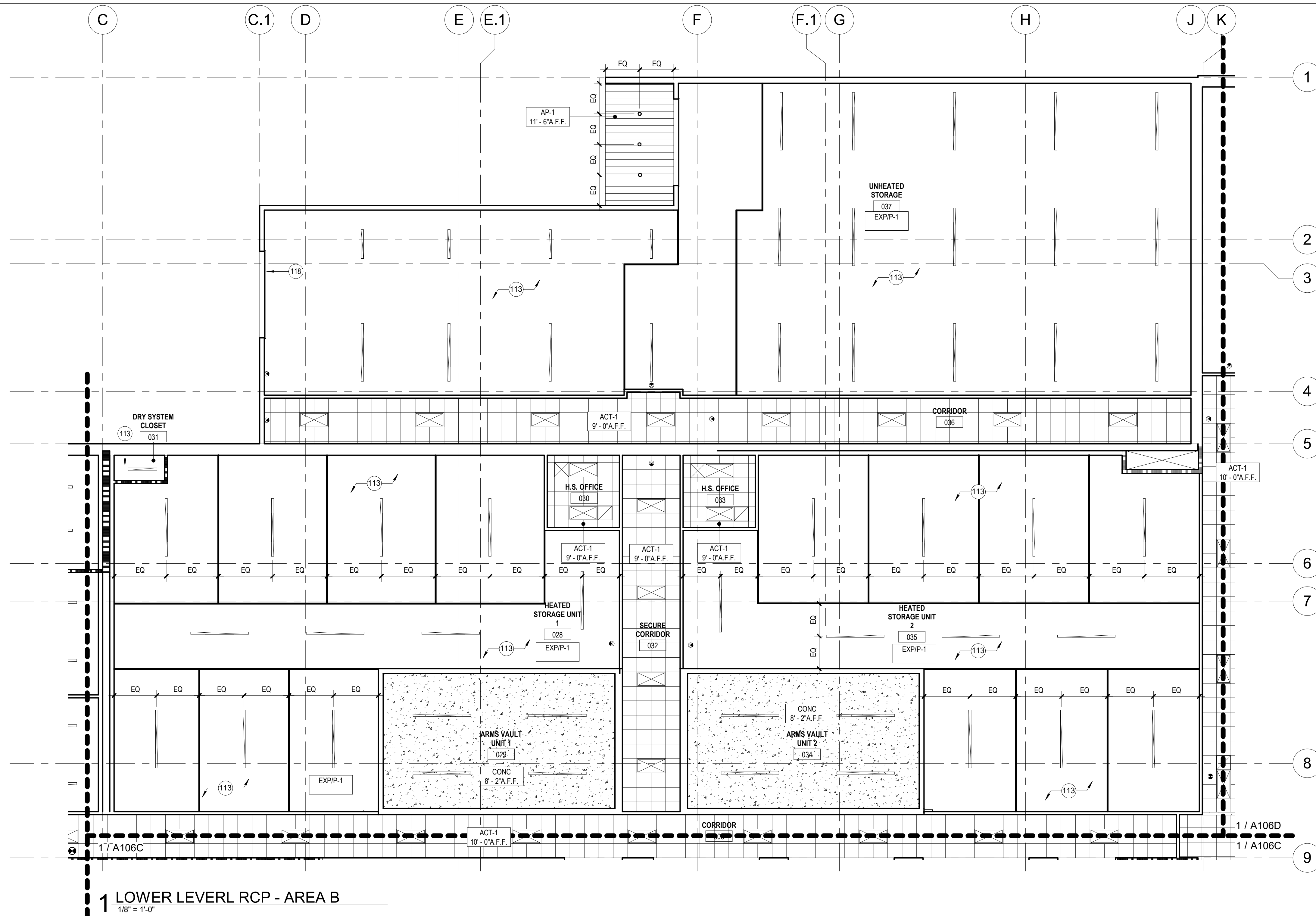
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DRAWN BY: CJK/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
**LOWER LEVEL
REFLECTED CEILING
PLAN - AREA B**

SHEET NUMBER:

A106B

112 OF 272 SHEETS
05/03/2024



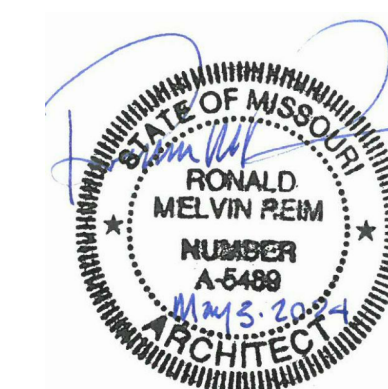
1 LOWER LEVEL RCP - AREA B
1/8" = 1'-0"

LEGEND	
	NEW 2' 0" x 2' 0" SUSPENDED ACOUSTICAL CEILING GRID AND PADS; REFER TO SPECIFICATIONS AND INTERIOR FINISH LEGEND AND SCHEDULE
	GYP-1, NEW GYPSUM BOARD SUSPENDED CEILING OR SOFFIT (PAINTED); REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE
	NEW CONCRETE TOP CEILING; REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE
	ALUMINUM PLANK SOFFIT
	2' 0" x 4' 0" LED LIGHT FIXTURE
	4' 0" x 8' 0" LED STRIP LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	SUPPLY AIR DIFFUSER
	EXHAUST FAN DIFFUSER
	2' 0" x 2' 0" LED LIGHT FIXTURE
	4' 0" x 4' 0" LED STRIP LIGHT FIXTURE
	4' 0" LOBBY DECORATIVE LIGHTING FIXTURE
	RECESSED DOWN LIGHT FIXTURE
	EXIT SIGN
	RETURN AIR EXHAUST DIFFUSER
	EXPOSED CONSTRUCTION

SHEET NOTES	
1.	CEILING FIXTURES SHOWN ARE FOR REFERENCE ONLY. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
2.	REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3.	REFER TO FLOOR PLAN FOR PARTITION TYPES NOT SHOWN.
4.	COORDINATE KITCHEN HOOD OPENINGS IN CEILING WITH MEP DRAWINGS.
5.	REFER TO SHEET A502 FOR TYPICAL CEILING DETAILS.
6.	CONTRACTOR SHALL COORDINATE ALL STRUCTURAL, PLUMBING, MECHANICAL, FIRE PROTECTION AND ELECTRICAL WORK WITH CEILING HEIGHTS AND ARCHITECTURAL WORK.
7.	ALL CEILING MOUNTED OR RECESSED ITEMS INDICATED OR NOT INDICATED ON REFLECTED CEILING PLAN SUCH AS SPEAKERS, GRILLES, LIGHTS, ETC., SHALL BE CENTERED IN THE LAY-IN PANELS. AT GYPSUM BOARD CEILINGS INSTALL IN A CONSISTENT PATTERN.
8.	NOTIFY ARCHITECT/ENGINEER OF ALL ITEMS NOT SHOWN ON THE REFLECTED CEILING PLAN AND LOCATE PER ARCHITECT/ENGINEER'S DIRECTION.
9.	ALL CEILING GRIDS TO BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED.

KEYNOTES	
#	NOTE
113	EXPOSED TO STRUCTURE ABOVE
118	OVERHEAD DOOR AND TRACK.

KEY PLAN	



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SUITE 1500 ST. LOUIS, MO 63102
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St. Louis, MO 63101
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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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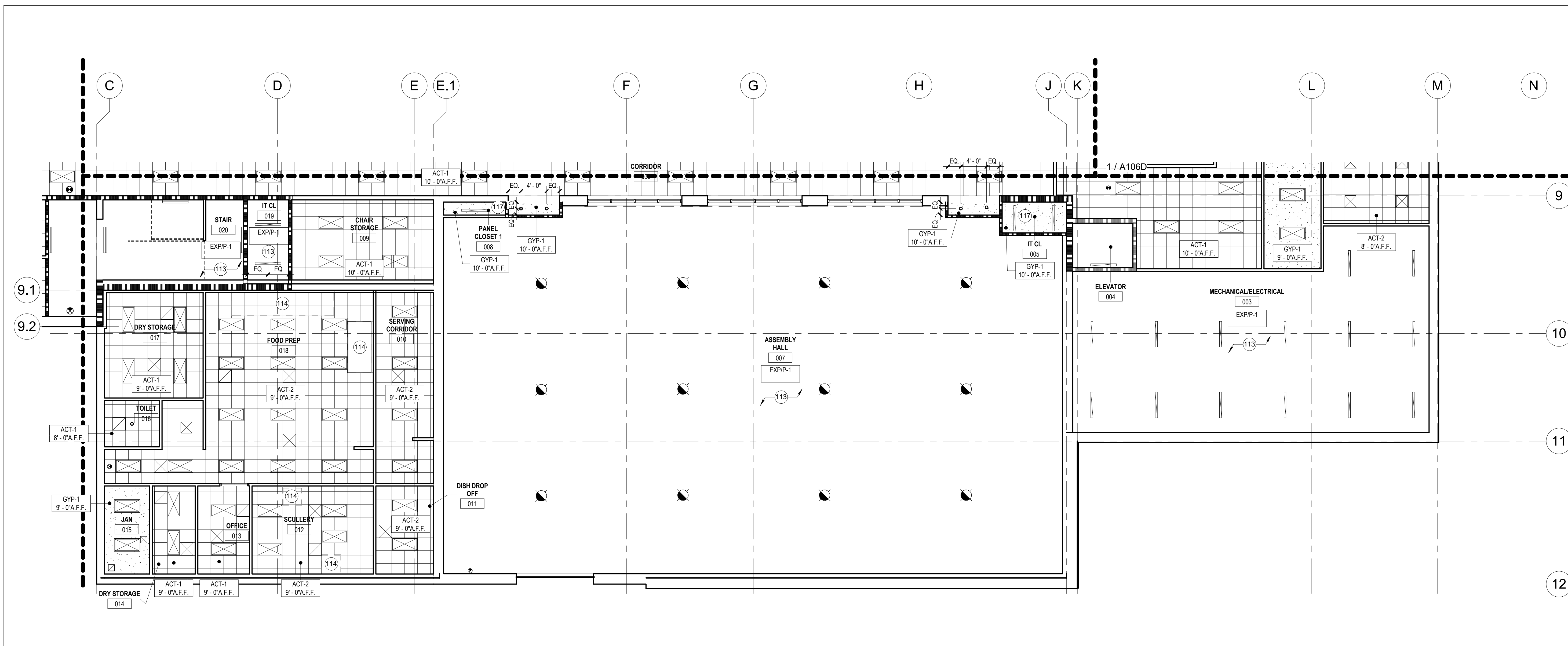
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DRAWN BY: CJK/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
LOWER LEVEL
REFLECTED CEILING
PLAN - AREA C

SHEET NUMBER:

A106C

113 OF 272 SHEETS
05/03/2024



1 LOWER LEVEL RCP - AREA C
1/8" = 1'-0"

LEGEND

	NEW 2' 0" x 2' 0" SUSPENDED ACOUSTICAL CEILING GRID AND PADS; REFER TO SPECIFICATIONS AND INTERIOR FINISH LEGEND AND SCHEDULE		EXPOSED CONSTRUCTION
	GYP-1, NEW GYPSUM BOARD SUSPENDED CEILING OR SOFFIT (PAINTED); REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		2' 0" x 4' 0" LED LIGHT FIXTURE
	NEW CONCRETE TOP CEILING; REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		4" x 8' 0" LED STRIP LIGHT FIXTURE
	ALUMINUM PLANK SOFFIT		HIGH BAY LIGHT FIXTURE
	2' 0" x 4' 0" LED LIGHT FIXTURE		4' 0" LOBBY DECORATIVE LIGHTING FIXTURE
	4" x 8' 0" LED STRIP LIGHT FIXTURE		RECESSED DOWN LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE		RECESSED DOWN LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE		EXIT SIGN
	SUPPLY AIR DIFFUSER		RETURN AIR EXHAUST DIFFUSER
	EXHAUST FAN DIFFUSER		

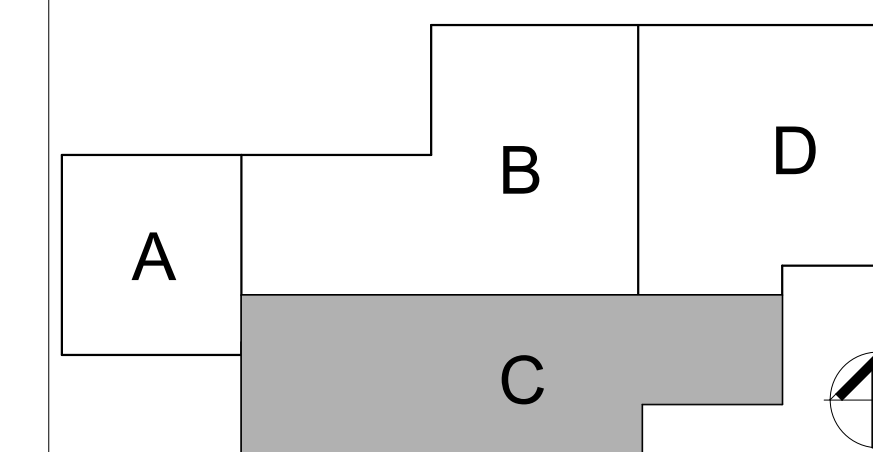
SHEET NOTES

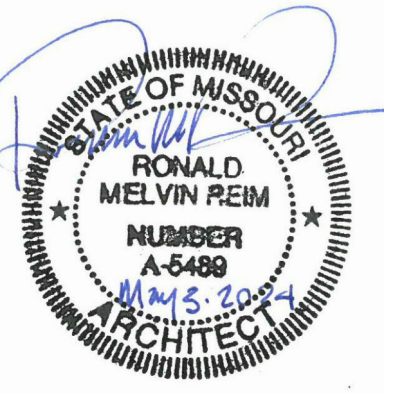
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2. REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3. REFER TO FLOOR PLAN FOR PARTITION TYPES NOT SHOWN.
4. COORDINATE KITCHEN HOOD OPENINGS IN CEILING WITH MEP DRAWINGS.
5. REFER TO SHEET A502 FOR TYPICAL CEILING DETAILS.
6. CONTRACTOR SHALL COORDINATE ALL STRUCTURAL, PLUMBING, MECHANICAL, FIRE PROTECTION AND ELECTRICAL WORK WITH CEILING HEIGHTS AND ARCHITECTURAL WORK.
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8. NOTIFY ARCHITECT/ENGINEER OF ALL ITEMS NOT SHOWN ON THE REFLECTED CEILING PLAN AND LOCATE PER ARCHITECT/ENGINEER'S DIRECTION.
9. ALL CEILING GRIDS TO BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED.

KEYNOTES

#	NOTE
113	EXPOSED TO STRUCTURE ABOVE
114	HOOD OPENING; REFERENCE MECHANICAL FOR ADDITIONAL INFORMATION
117	1 HOUR CEILING ENCLOSURE OVER ELECTRICAL ROOM

KEY PLAN





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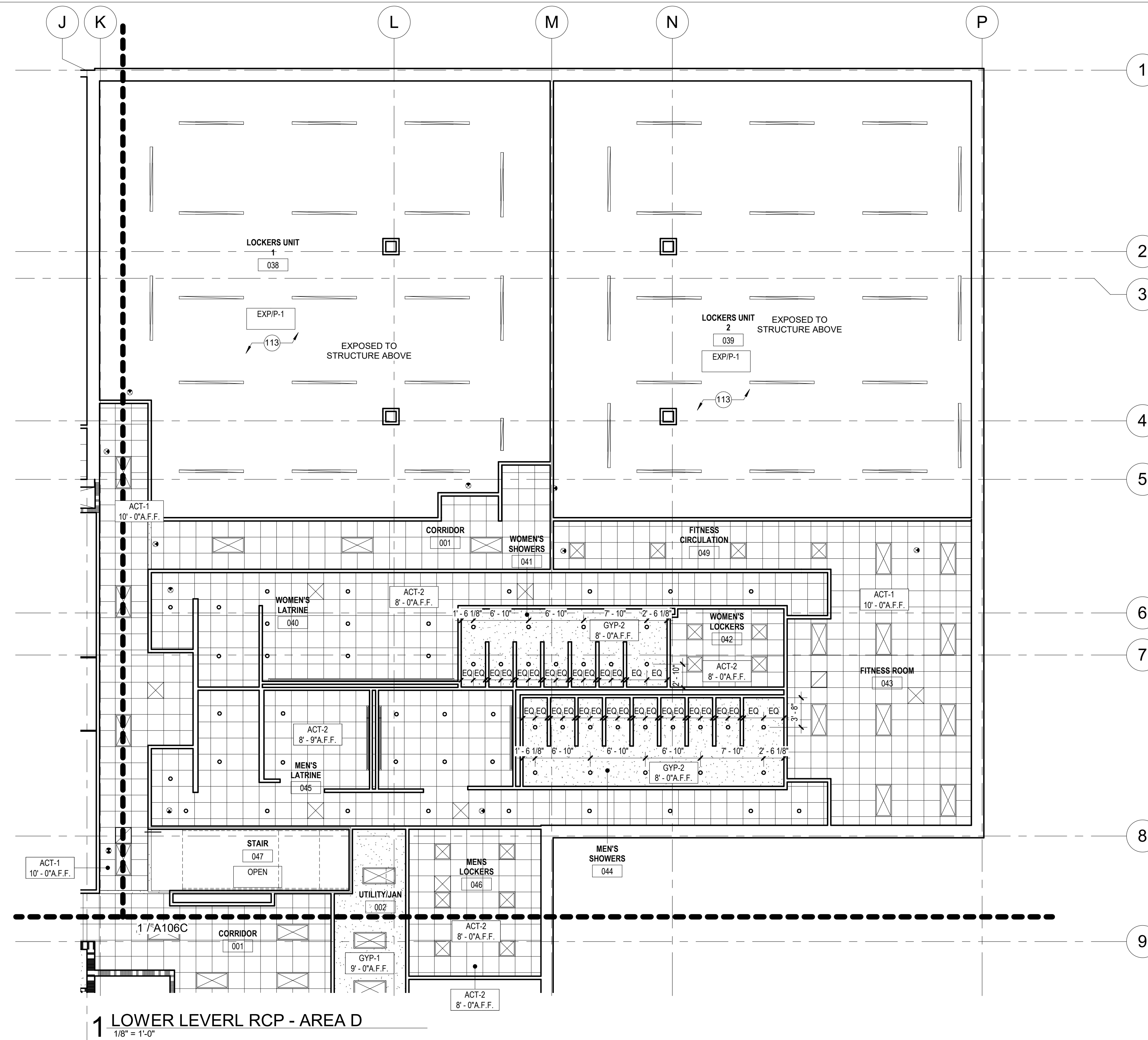
PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
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REVISION:
DATE:
ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: CJK/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
LOWER LEVEL
REFLECTED CEILING
PLAN - AREA D

SHEET NUMBER:
A106D
114 OF 272 SHEETS
05/03/2024



1 LOWER LEVEL RCP - AREA D
1/8" = 1'-0"

LEGEND

	NEW 2' 0" x 2' 0" SUSPENDED ACOUSTICAL CEILING GRID AND PADS; REFER TO SPECIFICATIONS AND INTERIOR FINISH LEGEND AND SCHEDULE		EXPOSED CONSTRUCTION
	GYP-1, NEW GYPSUM BOARD SUSPENDED CEILING OR SOFFIT (PAINTED); REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	NEW CONCRETE TOP CEILING; REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	ALUMINUM PLANK SOFFIT		
	2' 0" x 4' 0" LED LIGHT FIXTURE		2' 0" x 2' 0" LED LIGHT FIXTURE
	4" x 8" 0" LED STRIP LIGHT FIXTURE		4" x 4' 0" LED STRIP LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE		4' 0" LOBBY DECORATIVE LIGHTING FIXTURE
	WALL MOUNTED LIGHT FIXTURE		RECESSED DOWN LIGHT FIXTURE
	SUPPLY AIR DIFFUSER		EXIT SIGN
	EXHAUST FAN DIFFUSER		RETURN AIR EXHAUST DIFFUSER

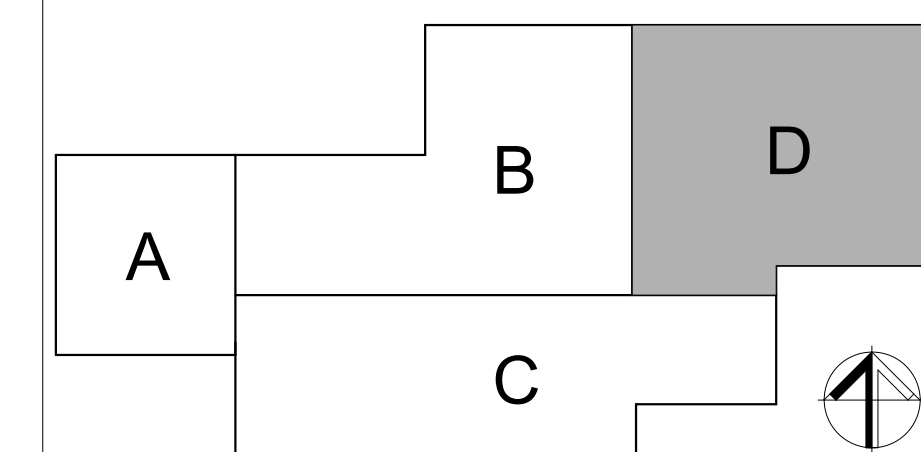
SHEET NOTES

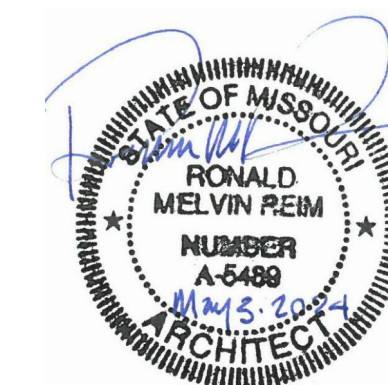
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2. REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3. REFER TO FLOOR PLAN FOR PARTITION TYPES NOT SHOWN.
4. COORDINATE KITCHEN HOOD OPENINGS IN CEILING WITH MEP DRAWINGS.
5. REFER TO SHEET A502 FOR TYPICAL CEILING DETAILS.
6. CONTRACTOR SHALL COORDINATE ALL STRUCTURAL, PLUMBING, MECHANICAL, FIRE PROTECTION AND ELECTRICAL WORK WITH CEILING HEIGHTS AND ARCHITECTURAL WORK.
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8. NOTIFY ARCHITECT/ENGINEER OF ALL ITEMS NOT SHOWN ON THE REFLECTED CEILING PLAN AND LOCATE PER ARCHITECT/ENGINEER'S DIRECTION.
9. ALL CEILING GRIDS TO BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED.

KEYNOTES

#	NOTE
113	EXPOSED TO STRUCTURE ABOVE

KEY PLAN





PROFESSIONAL SEAL



ONE SOUTH MEMORIAL DRIVE
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BLVD, ST. LOUIS, MO
63136

PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 05/03/2024

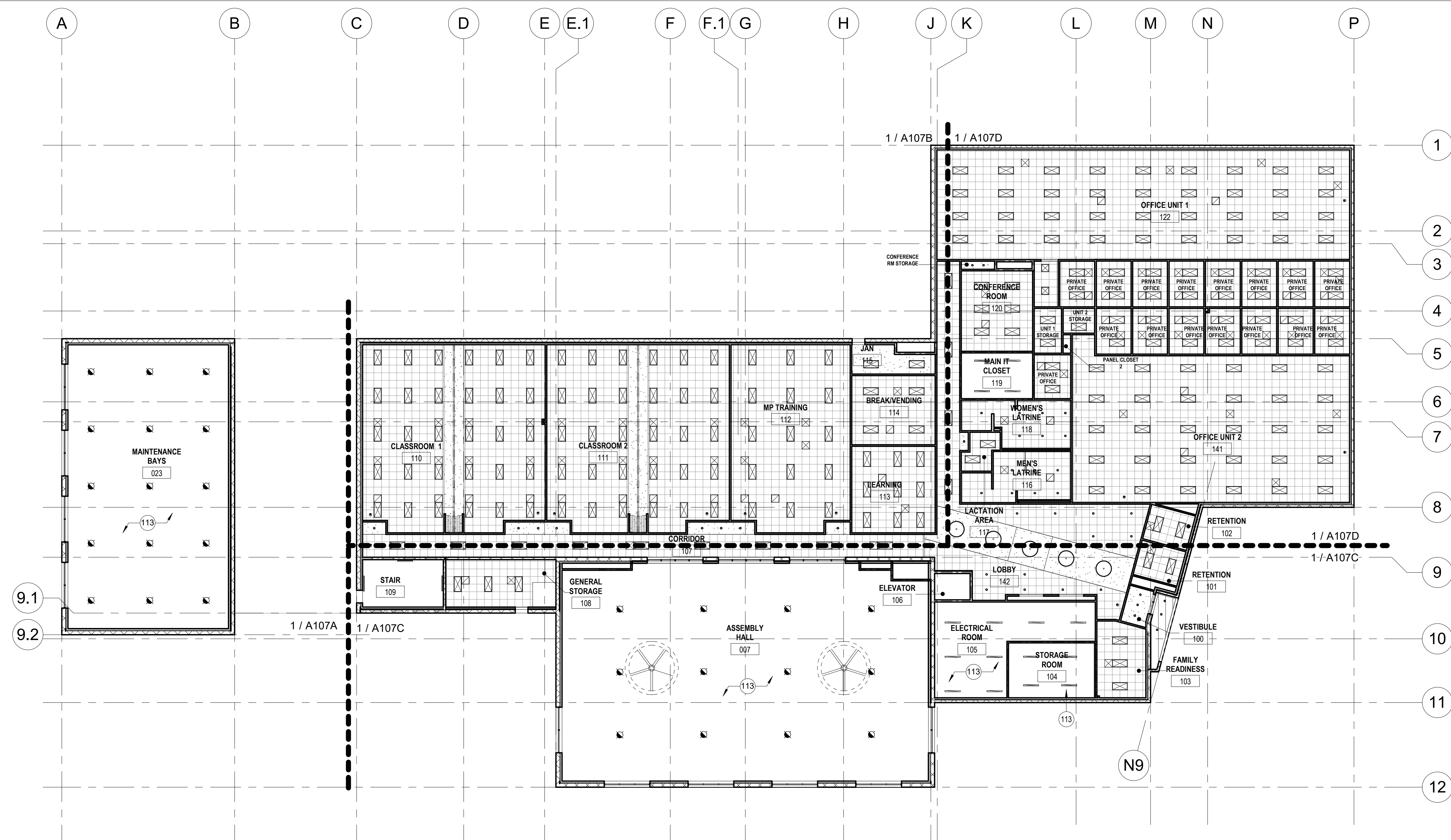
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DRAWN BY: CK/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
**FIRST FLOOR
REFLECTED CEILING
PLAN**

SHEET NUMBER:

A107

115 OF 272 SHEETS
05/03/2024



1 FIRST FLOOR OVERALL REFLECTED CEILING PLAN
1/16" = 1'-0"

LEGEND

	NEW 2' 0" x 2' 0" SUSPENDED ACOUSTICAL CEILING GRID AND PADS; REFER TO SPECIFICATIONS AND INTERIOR FINISH LEGEND AND SCHEDULE		EXPOSED CONSTRUCTION
	GYP-1, NEW GYPSUM BOARD SUSPENDED CEILING OR SOFFIT (PAINTED); REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	NEW CONCRETE TOP CEILING; REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	ALUMINUM PLANK SOFFIT		
	2' 0" x 4' 0" LED LIGHT FIXTURE		2' 0" x 2' 0" LED LIGHT FIXTURE
	4" x 8' 0" LED STRIP LIGHT FIXTURE		4" x 4' 0" LED STRIP LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE		4' 0" LOBBY DECORATIVE LIGHTING FIXTURE
	WALL MOUNTED LIGHT FIXTURE		RECESSED DOWN LIGHT FIXTURE
	SUPPLY AIR DIFFUSER		EXIT SIGN
	EXHAUST FAN DIFFUSER		RETURN AIR EXHAUST DIFFUSER

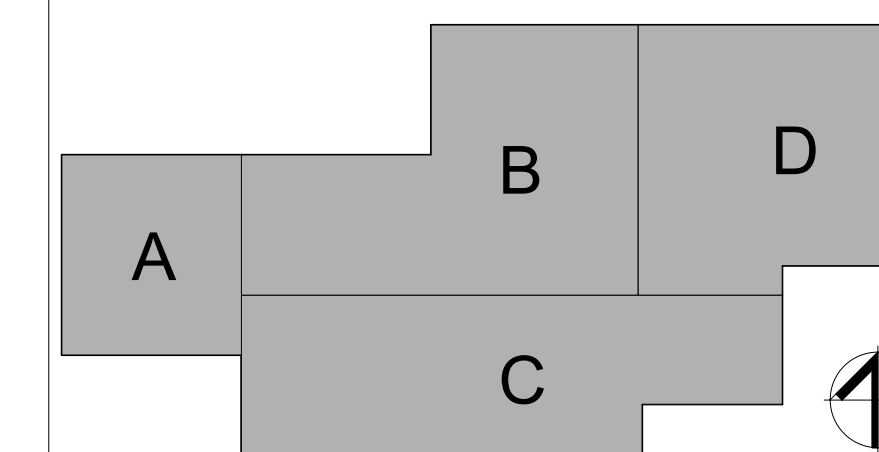
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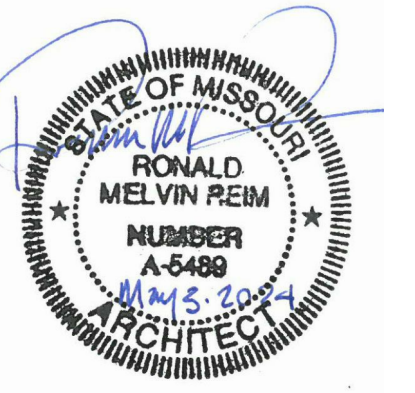
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KEYNOTES

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113	EXPOSED TO STRUCTURE ABOVE

KEY PLAN





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63136

PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

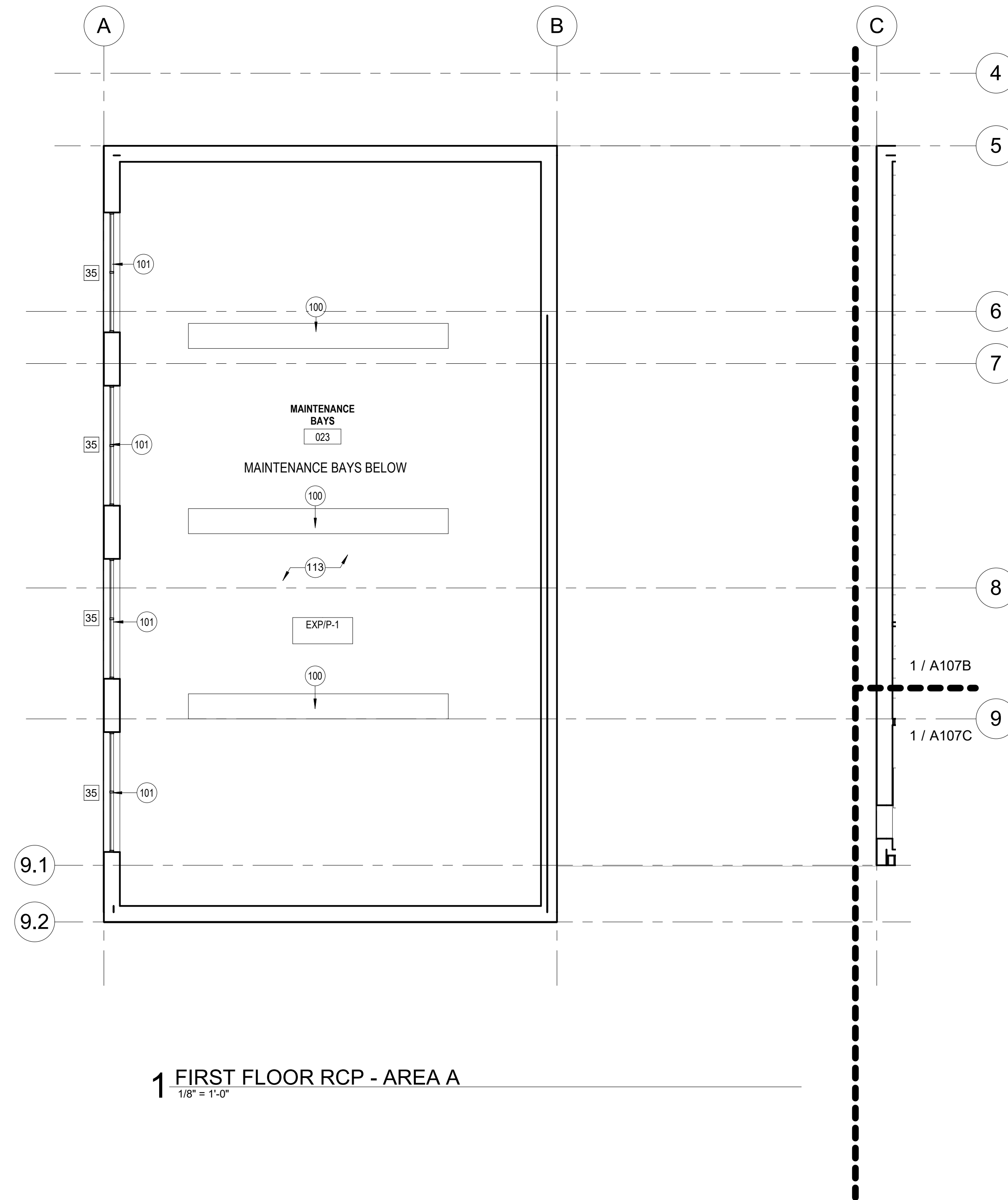
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DRAWN BY: CJK/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
FIRST FLOOR
REFLECTED CEILING
PLAN - AREA A

SHEET NUMBER:

A107A

116 OF 272 SHEETS
05/03/2024



1 FIRST FLOOR RCP - AREA A
1/8" = 1'-0"

LEGEND

	NEW 2' 0" x 2' 0" SUSPENDED ACOUSTICAL CEILING GRID AND PADS; REFER TO SPECIFICATIONS AND INTERIOR FINISH LEGEND AND SCHEDULE		EXPOSED CONSTRUCTION
	GYP-1, NEW GYPSUM BOARD SUSPENDED CEILING OR SOFFIT (PAINTED); REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	NEW CONCRETE TOP CEILING; REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	ALUMINUM PLANK SOFFIT		
	2' 0" x 4' 0" LED LIGHT FIXTURE		2' 0" x 2' 0" LED LIGHT FIXTURE
	4' x 8' 0" LED STRIP LIGHT FIXTURE		4' x 4' 0" LED STRIP LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE		4' 0" LOBBY DECORATIVE LIGHTING FIXTURE
	WALL MOUNTED LIGHT FIXTURE		RECESSED DOWN LIGHT FIXTURE
	SUPPLY AIR DIFFUSER		EXIT SIGN
	EXHAUST FAN DIFFUSER		RETURN AIR EXHAUST DIFFUSER

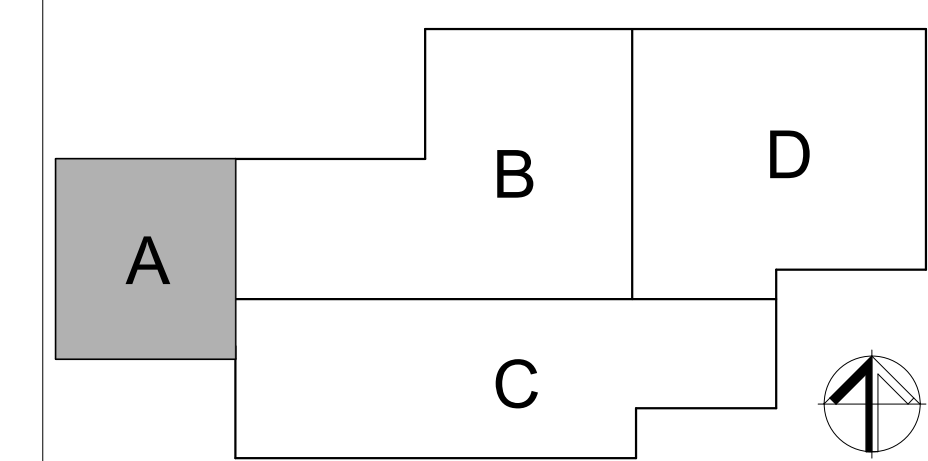
SHEET NOTES

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2. REFER TO ROOM FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
3. REFER TO FLOOR PLAN FOR PARTITION TYPES NOT SHOWN.
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5. REFER TO SHEET A502 FOR TYPICAL CEILING DETAILS.
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9. ALL CEILING GRIDS TO BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED.

KEYNOTES

#	NOTE
100	INFARED RADIANT HEATERS; REFERENCE MECHANICAL FOR ADDITIONAL INFORMATION
101	CLERESTORY ALUMINUM GLAZING SYSTEM; REFERENCE ARCH. ELEVATIONS FOR ADDITIONAL INFORMATION
113	EXPOSED TO STRUCTURE ABOVE

KEY PLAN





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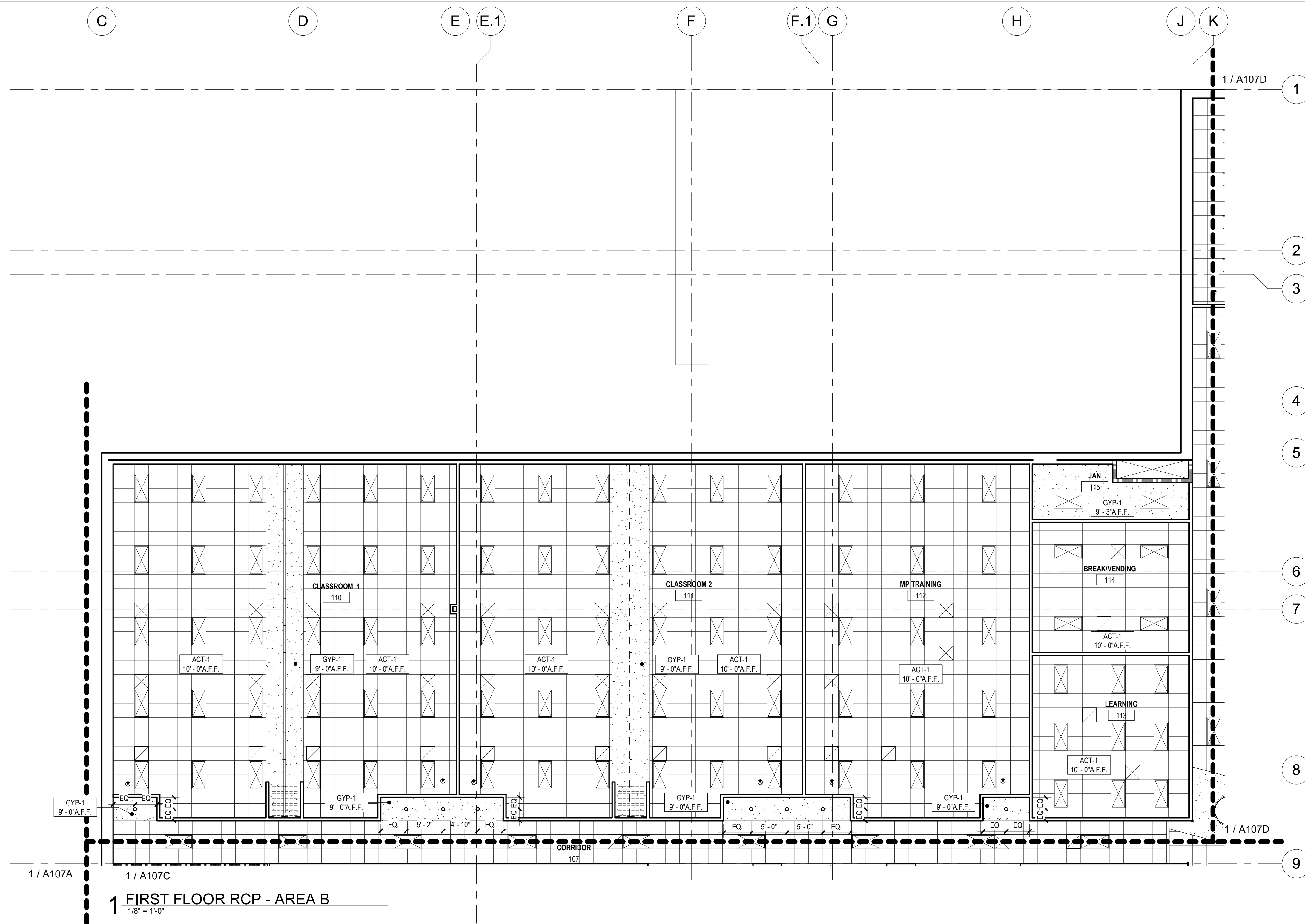
PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: CJK/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
FIRST FLOOR
REFLECTED CEILING
PLAN - AREA B

SHEET NUMBER:
A107B
117 OF 272 SHEETS
05/03/2024



1 FIRST FLOOR RCP - AREA B
1/8" = 1'-0"

LEGEND

	NEW 2' 0" x 2' 0" SUSPENDED ACOUSTICAL CEILING GRID AND PADS; REFER TO SPECIFICATIONS AND INTERIOR FINISH LEGEND AND SCHEDULE		EXPOSED CONSTRUCTION
	GYP-1, NEW GYPSUM BOARD SUSPENDED CEILING OR SOFFIT (PAINTED); REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	NEW CONCRETE TOP CEILING; REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	ALUMINUM PLANK SOFFIT		
	2' 0" x 4' 0" LED LIGHT FIXTURE		2' 0" x 2' 0" LED LIGHT FIXTURE
	4' x 8' 0" LED STRIP LIGHT FIXTURE		4' x 4' 0" LED STRIP LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE		4' 0" LOBBY DECORATIVE LIGHTING FIXTURE
	WALL MOUNTED LIGHT FIXTURE		RECESSED DOWN LIGHT FIXTURE
	SUPPLY AIR DIFFUSER		EXIT SIGN
	EXHAUST FAN DIFFUSER		RETURN AIR EXHAUST DIFFUSER

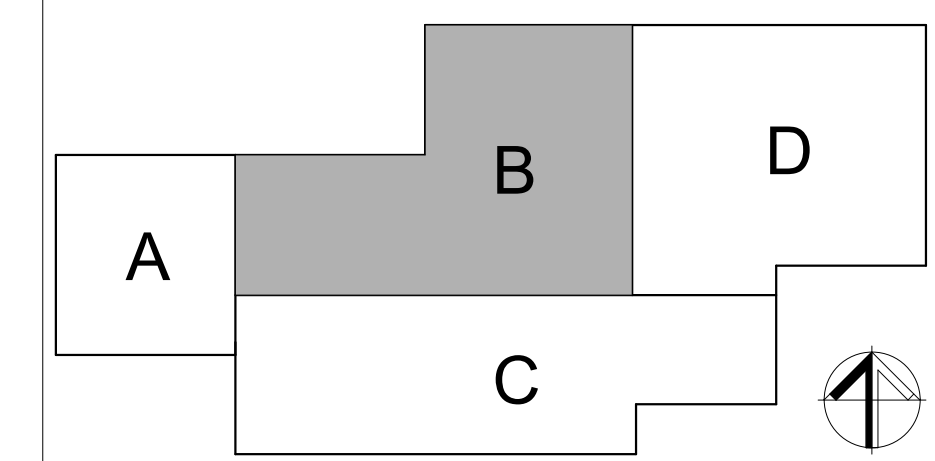
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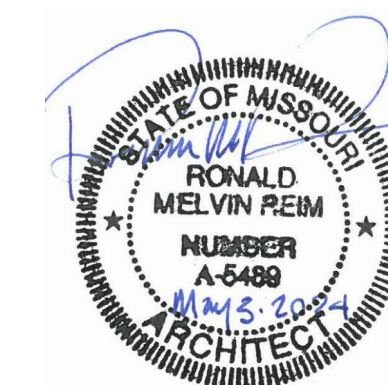
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9. ALL CEILING GRIDS TO BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED.

KEYNOTES

#	NOTE
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KEY PLAN





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63136

PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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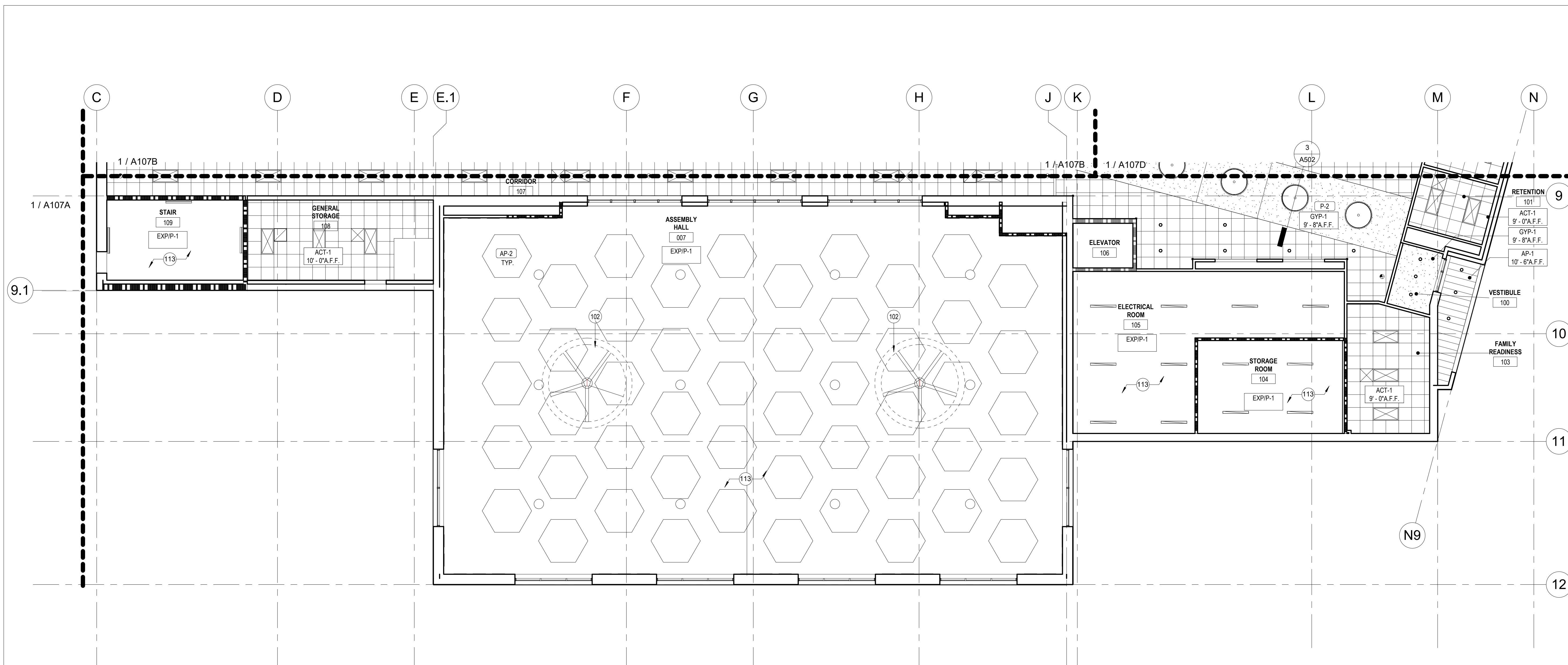
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DRAWN BY: CJK/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
FIRST FLOOR
REFLECTED CEILING
PLAN - AREA C

SHEET NUMBER:

A107C

118 OF 272 SHEETS
05/03/2024



1 FIRST FLOOR RCP - AREA C
1/8" = 1'-0"

LEGEND

	NEW 2' 0" x 2' 0" SUSPENDED ACOUSTICAL CEILING GRID AND PADS; REFER TO SPECIFICATIONS AND INTERIOR FINISH LEGEND AND SCHEDULE		EXPOSED CONSTRUCTION
	GYP-1, NEW GYPSUM BOARD SUSPENDED CEILING OR SOFFIT (PAINTED); REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	NEW CONCRETE TOP CEILING; REFER TO SPECIFICATIONS AND INTERIOR FINISH SCHEDULE		
	ALUMINUM PLANK SOFFIT		
	2' 0" x 4' 0" LED LIGHT FIXTURE		2' 0" x 2' 0" LED LIGHT FIXTURE
	4' x 8' 0" LED STRIP LIGHT FIXTURE		4' x 4' 0" LED STRIP LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE		4' 0" LOBBY DECORATIVE LIGHTING FIXTURE
	WALL MOUNTED LIGHT FIXTURE		RECESSED DOWN LIGHT FIXTURE
	SUPPLY AIR DIFFUSER		EXIT SIGN
	EXHAUST FAN DIFFUSER		RETURN AIR EXHAUST DIFFUSER

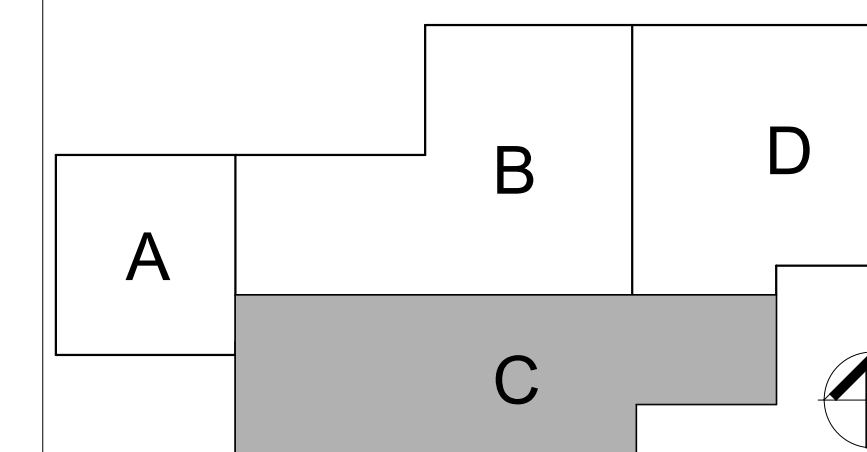
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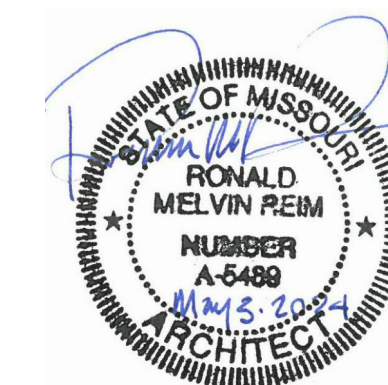
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KEYNOTES

#	NOTE
102	ASSEMBLY HALL CEILING FAN; REFERENCE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
113	EXPOSED TO STRUCTURE ABOVE

KEY PLAN





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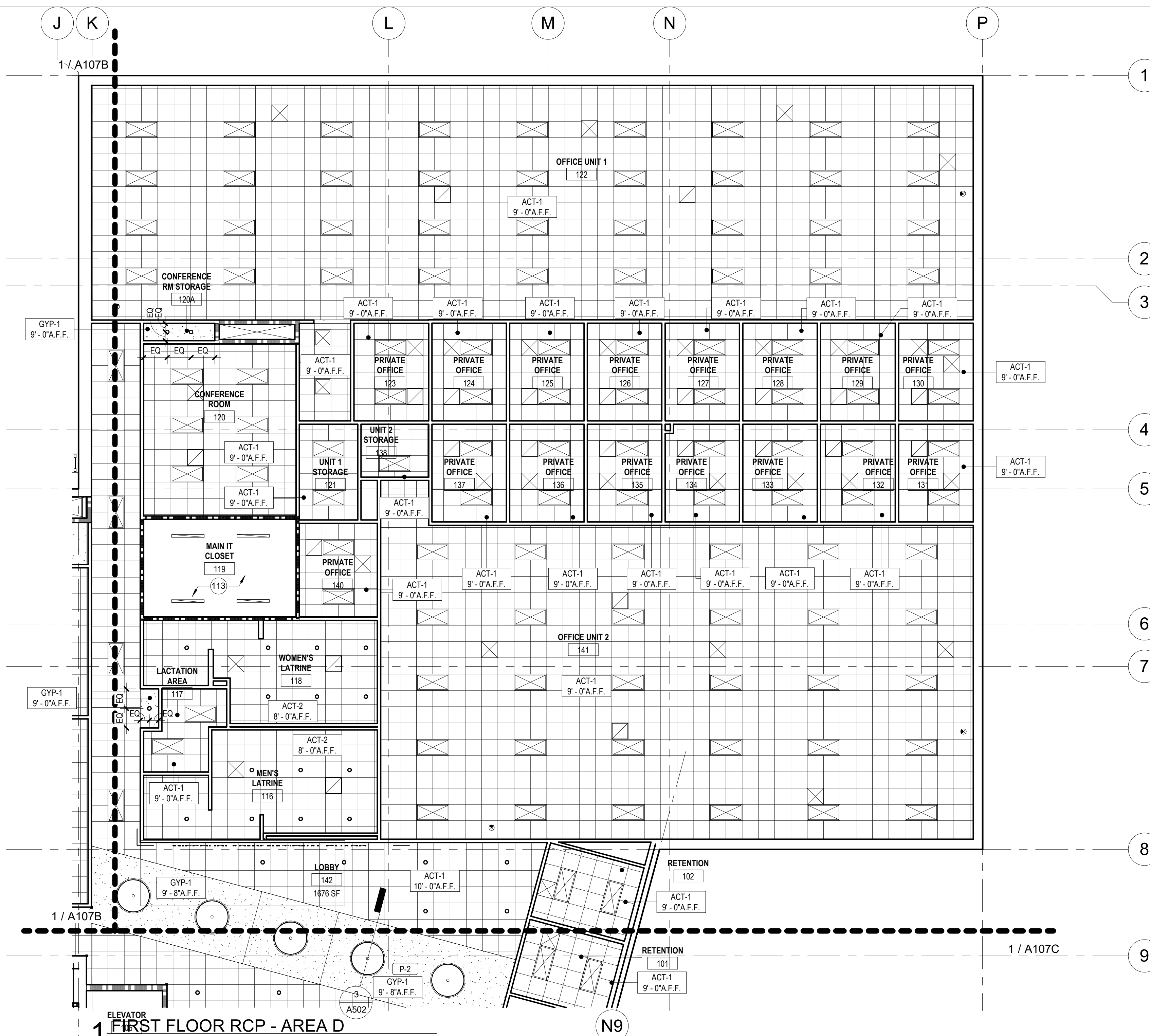
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DRAWN BY: CJK/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
FIRST FLOOR
REFLECTED CEILING
PLAN - AREA D

SHEET NUMBER:

A107D

119 OF 272 SHEETS
05/03/2024



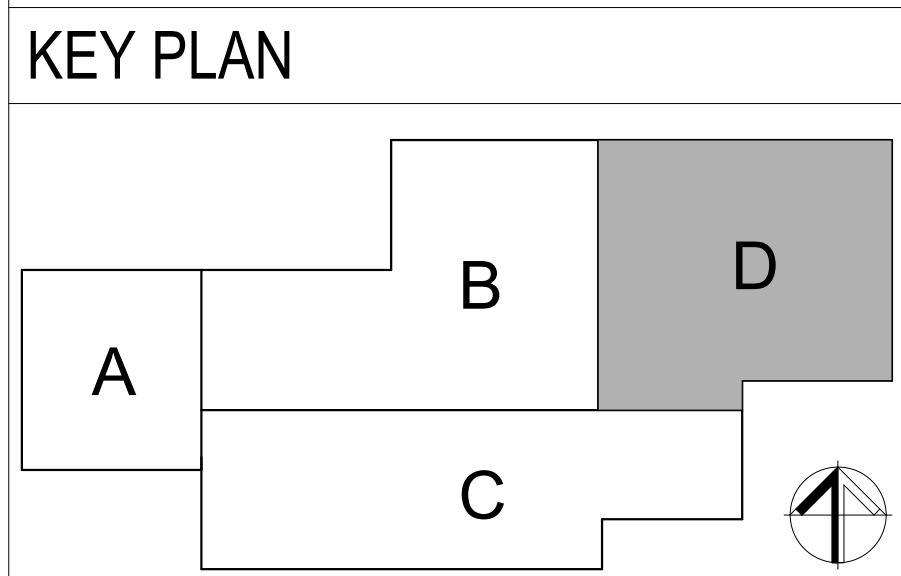
1 FIRST FLOOR RCP - AREA D
1/8" = 1'-0"

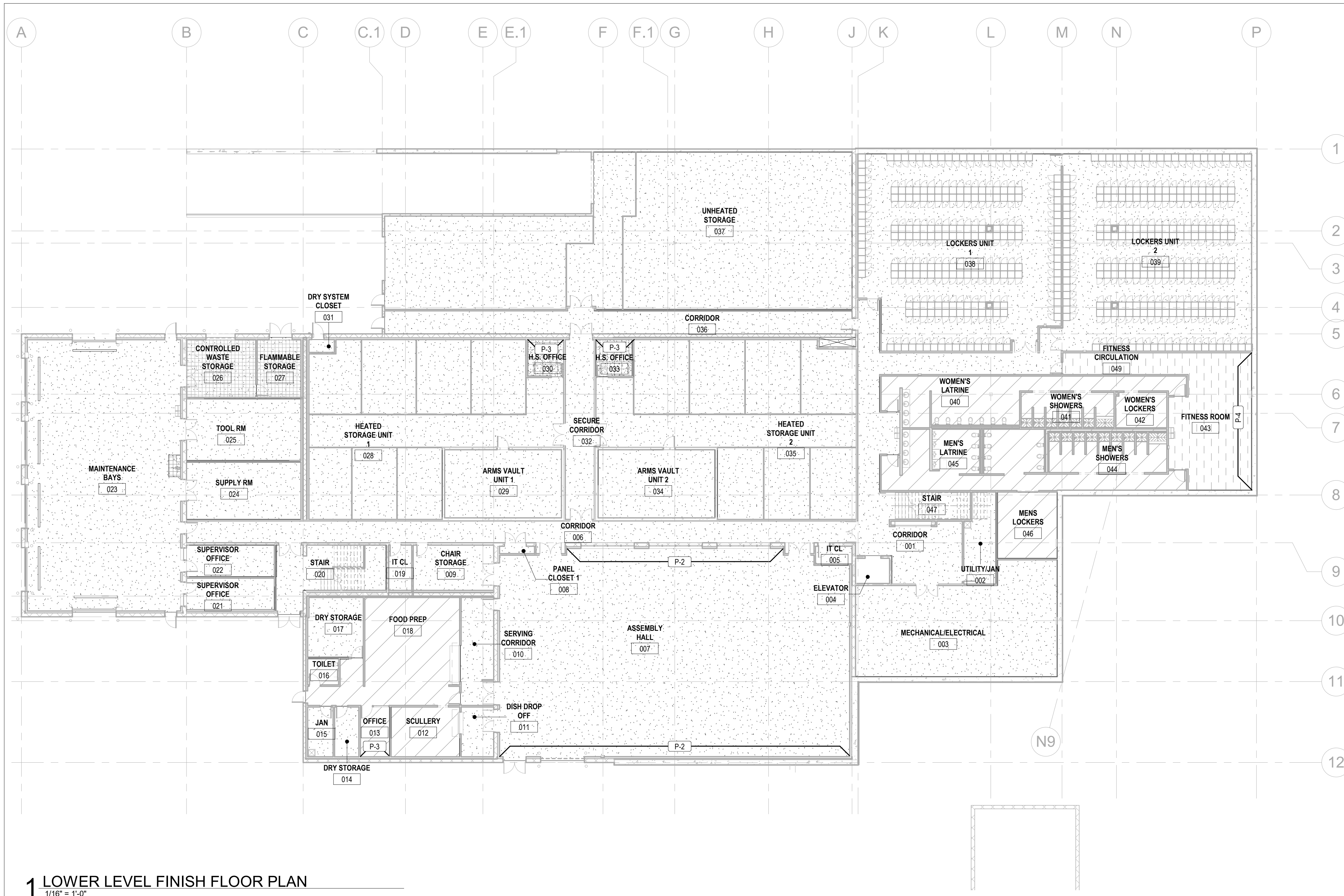
LEGEND	
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	4" x 8' 0" LED STRIP LIGHT FIXTURE
	4" x 4' 0" LED STRIP LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE
	4' 0" LOBBY DECORATIVE LIGHTING FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	RECESSED DOWN LIGHT FIXTURE
	SUPPLY AIR DIFFUSER
	EXIT SIGN
	EXHAUST FAN DIFFUSER
	RETURN AIR EXHAUST DIFFUSER
	EXPOSED CONSTRUCTION

- SHEET NOTES**
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KEYNOTES

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113	EXPOSED TO STRUCTURE ABOVE





1 LOWER LEVEL FINISH FLOOR PLAN
1/16" = 1'-0"

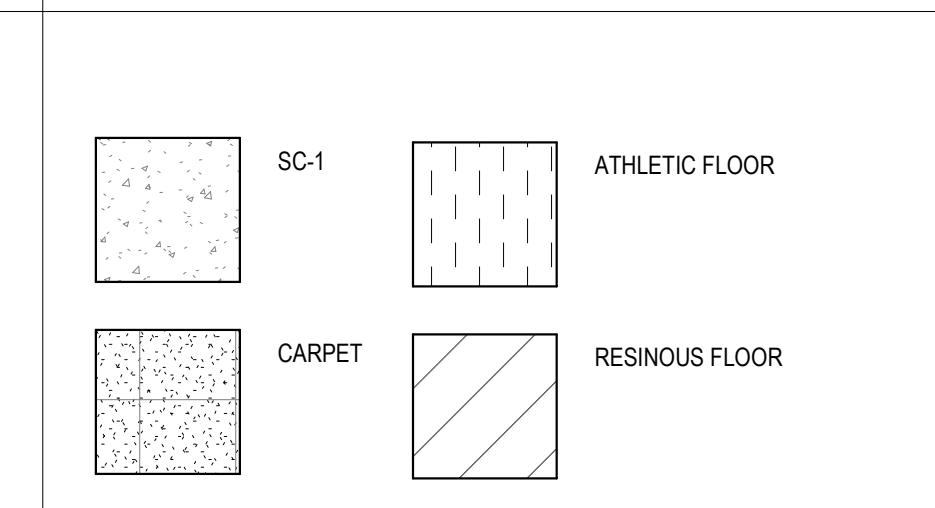
LOWER LEVEL ROOM FINISH SCHEDULE

RM	RM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	REMARKS
001	CORRIDOR	SC-1	RB-1	P-1	ACT-1	
002	UTILITY/JAN	SC-1	RB-1	P-6	GYP-1	
003	MECHANICAL/ELECTRICAL	SC-1	RB-1	P-1	EXP/P-1	
004	ELEVATOR					SEE ELEVATOR SPECIFICATION
005	IT CL	SC-1	RB-1	P-1	GYP-1	
006	CORRIDOR	SC-1	RB-1	P-1	ACT-1	
007	ASSEMBLY HALL	SC-1	RB-1	P-1/P-2	EXP/P-1	
008	PANEL CLOSET 1	SC-1	RB-1	P-1	GYP-1	
009	CHAIR STORAGE	SC-1	RB-1	P-1	ACT-1	
010	SERVING CORRIDOR	SC-1	RB-1	P-6	ACT-2	
011	DISH DROP OFF	SC-1	RB-1	P-6	ACT-2	
012	SCULLERY	RES-1	RES-1	RES-2	ACT-2	MOISTURE BOARD
013	OFFICE	RES-1	RES-1	P-1/P-3	ACT-1	
014	DRY STORAGE	SC-1	RB-1	P-1	ACT-1	
015	JAN	SC-1	RB-1	P-6	GYP-1	
016	TOILET	RES-1	RES-1	P-1	ACT-1	
017	DRY STORAGE	SC-1	RB-1	P-1	ACT-1	
018	FOOD PREP	RES-1	RES-1	RES-2	ACT-2	
019	IT CL	SC-1	RB-1	P-1	EXP/P-1	
020	STAIR	RST-1	RB-1	P-1	EXP/P-1	CONCRETE STAIR SEE A404
021	SUPERVISOR OFFICE	SC-1	RB-1	P-1	ACT-1	
022	SUPERVISOR OFFICE	SC-1	RB-1	P-1/P-4	ACT-1	
023	MAINTENANCE BAYS	SC-1	RB-1	P-6	EXP/P-1	
024	SUPPLY RM	SC-1	RB-1	P-6	EXP/P-1	
025	TOOL RM	SC-1	RB-1	P-6	EXP/P-1	
026	CONTROLLED WASTE STORAGE	SC-1	RB-1	P-6	EXP/P-1	
027	FLAMMABLE STORAGE	SC-1	RB-1	P-6	EXP/P-1	
028	HEATED STORAGE UNIT 1	SC-1	RB-1	P-6	EXP/P-1	
029	ARMS VAULT UNIT 1	SC-1	RB-1	P-1	CONC/H	
030	H.S. OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
031	DRY SYSTEM CLOSET	SC-1	RB-1	P-1	EXP/P-1	
032	SECURE CORRIDOR	SC-1	RB-1	P-1	ACT-1	
033	H.S. OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
034	ARMS VAULT UNIT 2	SC-1	RB-1	P-1	CONC/H	
035	HEATED STORAGE UNIT 2	SC-1	RB-1	P-1	EXP/P-1	
036	CORRIDOR	SC-1	RB-1	P-1	ACT-1	
037	UNHEATED STORAGE	SC-1	RB-1	P-1	EXP/P-1	
037	UNHEATED STORAGE	SC-1	RB-1	P-1	EXP/P-1	
038	LOCKERS UNIT 1	SC-1	RB-1	P-6	EXP/P-1	
039	LOCKERS UNIT 2	SC-1	RB-1	P-6	EXP/P-1	
040	WOMEN'S LATRINE	RES-1	RES-1	RES-2	ACT-2	
041	WOMEN'S SHOWERS	RES-1	RES-1	RES-2/SS-2	GYP-2	SS-2 TO ALIGN WITH SHOWER PA TYP.
042	WOMEN'S LOCKERS	RES-1	RES-1	P-6	ACT-2	
043	FITNESS ROOM	ATH-1	RB-1	P-1/P-4	ACT-1	
044	MEN'S SHOWERS	RES-1	RES-1	RES-2/SS-2	GYP-2	SS-2 TO ALIGN WITH SHOWER PAN TYP.
045	MEN'S LATRINE	RES-1	RES-1	RES-2	ACT-2	
046	MEN'S LOCKERS	RES-1	RES-1	P-6	ACT-2	
047	STAIR	RST-1	RB-1	P-1	OPEN	
049	FITNESS CIRCULATION	ATH-1	RB-1	P-1	ACT-1	

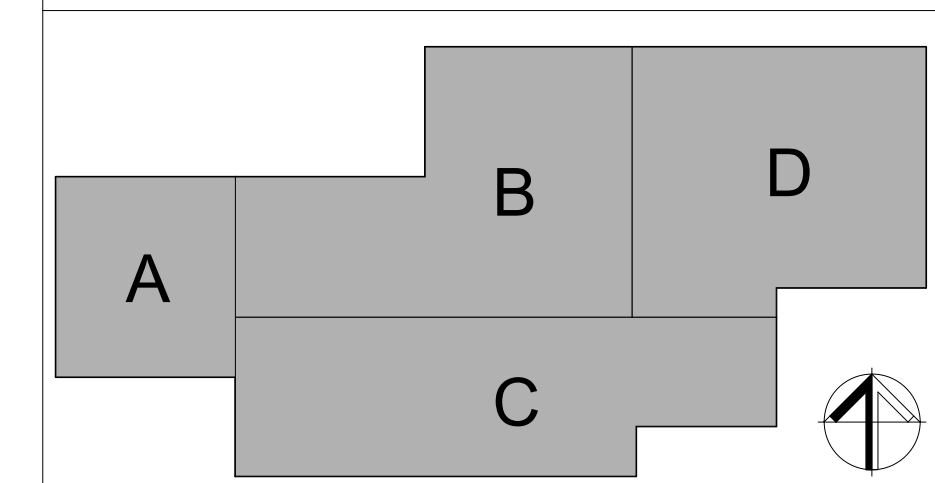
SHEET NOTES

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- ALL CORNERS TO RECEIVE CORNER GUARD CG-1.

LEGEND



KEY PLAN



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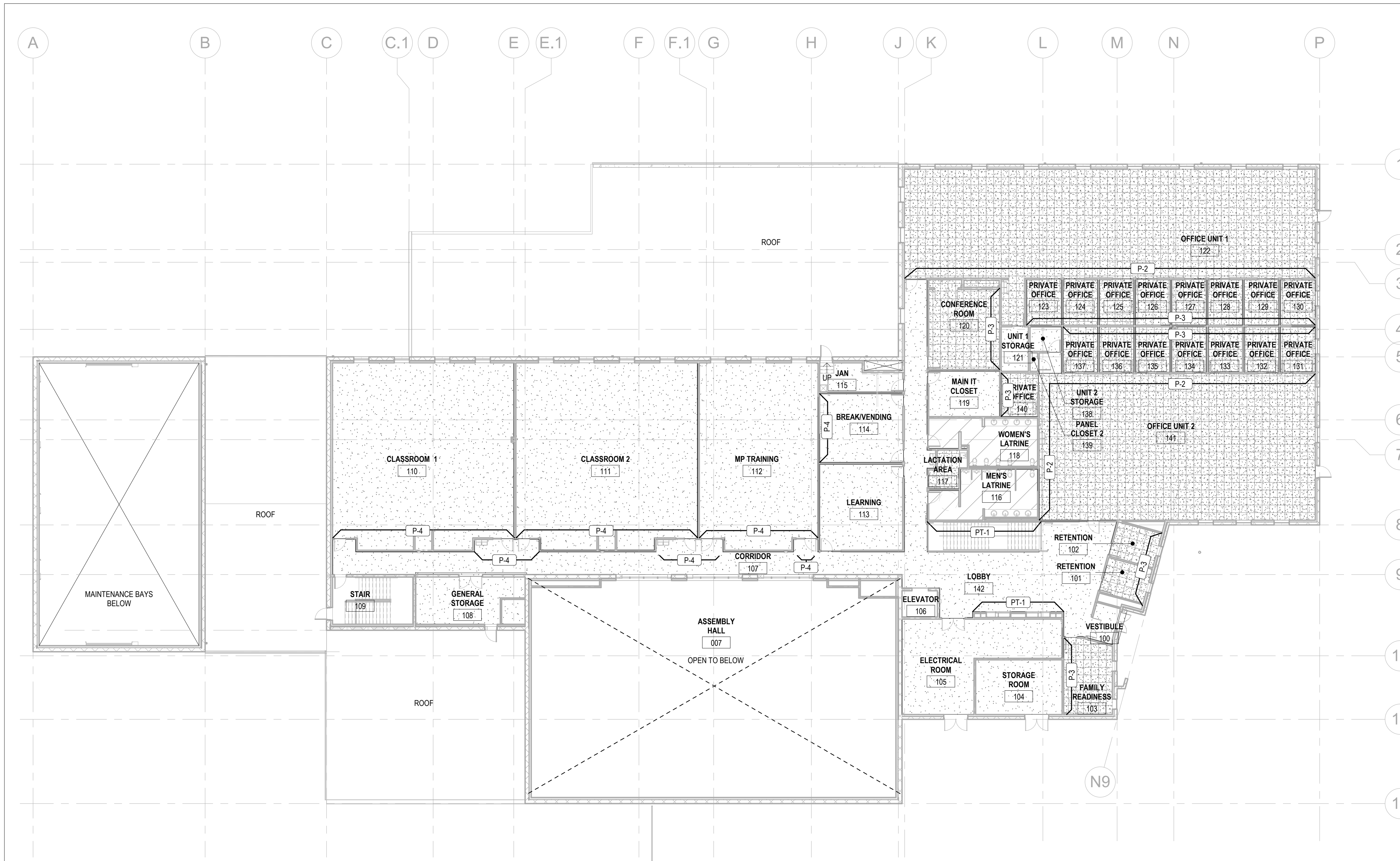
PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
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CAD DWG FILE:
DRAWN BY: MS/HR
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
FINISH LOWER
LEVEL PLAN -
OVERALL

SHEET NUMBER:
A108
120 OF 272 SHEETS
05/03/2024



1 FIRST FLOOR FINISH PLAN OVERALL
1/16" = 1'-0"

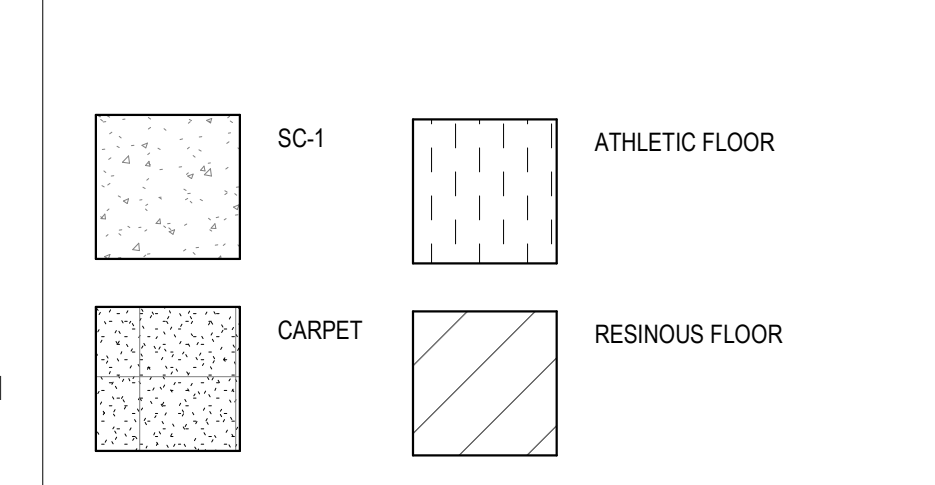
FIRST FLOOR ROOM FINISH SCHEDULE

NM BR	RM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	REMARKS
100	VESTIBULE	SC-1	RB-1	P-1	GYP-1	
101	RETENTION	CPT-1	RB-1	P-1/P-3	ACT-1	
102	RETENTION	CPT-1	RB-1	P-1/P-3	ACT-1	
103	FAMILY READINESS	CPT-1	RB-1	P-1/P-3	ACT-1	
104	STORAGE ROOM	SC-1	RB-1	P-1	EXP/P-1	
105	ELECTRICAL ROOM	SC-1	RB-1	P-1	EXP/P-1	
106	ELEVATOR					SEE ELEVATOR SPECIFICATION
107	CORRIDOR	SC-1	RB-1	P-1/P-4	ACT-1/GYP-1	
108	GENERAL STORAGE	SC-1	RB-1	P-1	ACT-1	
109	STAIR	SC-1	RB-1	P-1	EXP/P-1	CONCRETE STAIR SEE A404
110	CLASSROOM 1	SC-1	RB-1	P-1/P-4	ACT-1	
111	CLASSROOM 2	SC-1	RB-1	P-1/P-4	ACT-1	
112	MP TRAINING	SC-1	RB-1	P-1/P-4	ACT-1	
113	LEARNING	SC-1	RB-1	P-1	ACT-1	
114	BREAK/VENDING	SC-1	RB-1	P-1/P-4	ACT-1	
115	JAN	SC-1	RB-1	P-1	GYP-1	
116	MEN'S LATRINE	RES-1	RES-1	RES-2	ACT-2	
117	LACTATION AREA	CPT-2	RB-1	P-2	ACT-1	
118	WOMEN'S LATRINE	RES-1	RES-1	RES-2	ACT-2	
119	MAIN IT CLOSET	SC-1	RB-1	P-1	EXP/P-1	
120	CONFERENCE ROOM	CPT-2	RB-1	P-1/P-3	ACT-1	
120	CONFERENCE RM STORAGE	CPT-2	RB-1	P-1	ACT-1	
121	UNIT 1 STORAGE	SC-1	RB-1	P-1	ACT-1	
122	OFFICE UNIT 1	CPT-1	RB-1	P-1/P-2	ACT-1	
123	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
124	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
125	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
126	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
127	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
128	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
129	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
130	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
131	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
132	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
133	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
134	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
135	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
136	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
137	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
138	UNIT 2 STORAGE	SC-1	RB-1	P-1	ACT-1	
139	PANEL CLOSET 2	SC-1	RB-1	P-1	GYP-1	
140	PRIVATE OFFICE	CPT-2	RB-1	P-1/P-3	ACT-1	
141	OFFICE UNIT 2	CPT-1	RB-1	P-1/P-2	ACT-1	
142	LOBBY	SC-1	RB-1	P-1	ACT-1/GYP-1	

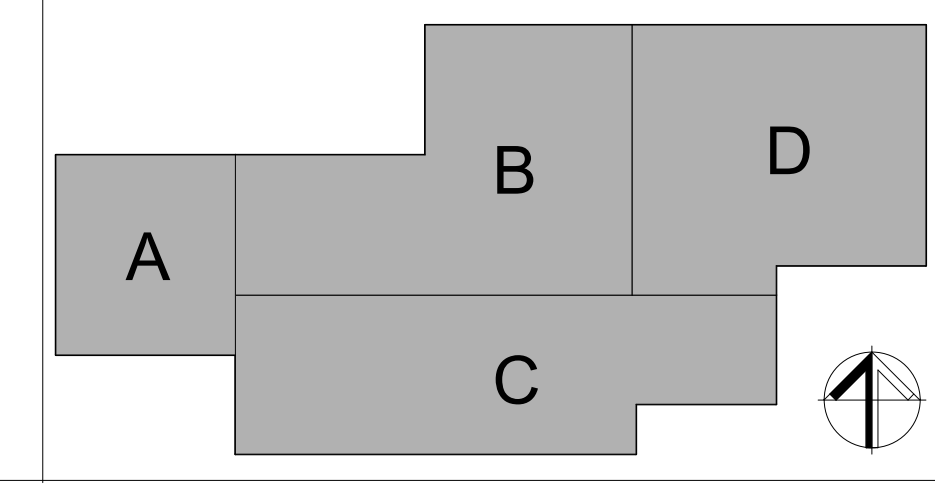
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LEGEND



KEY PLAN



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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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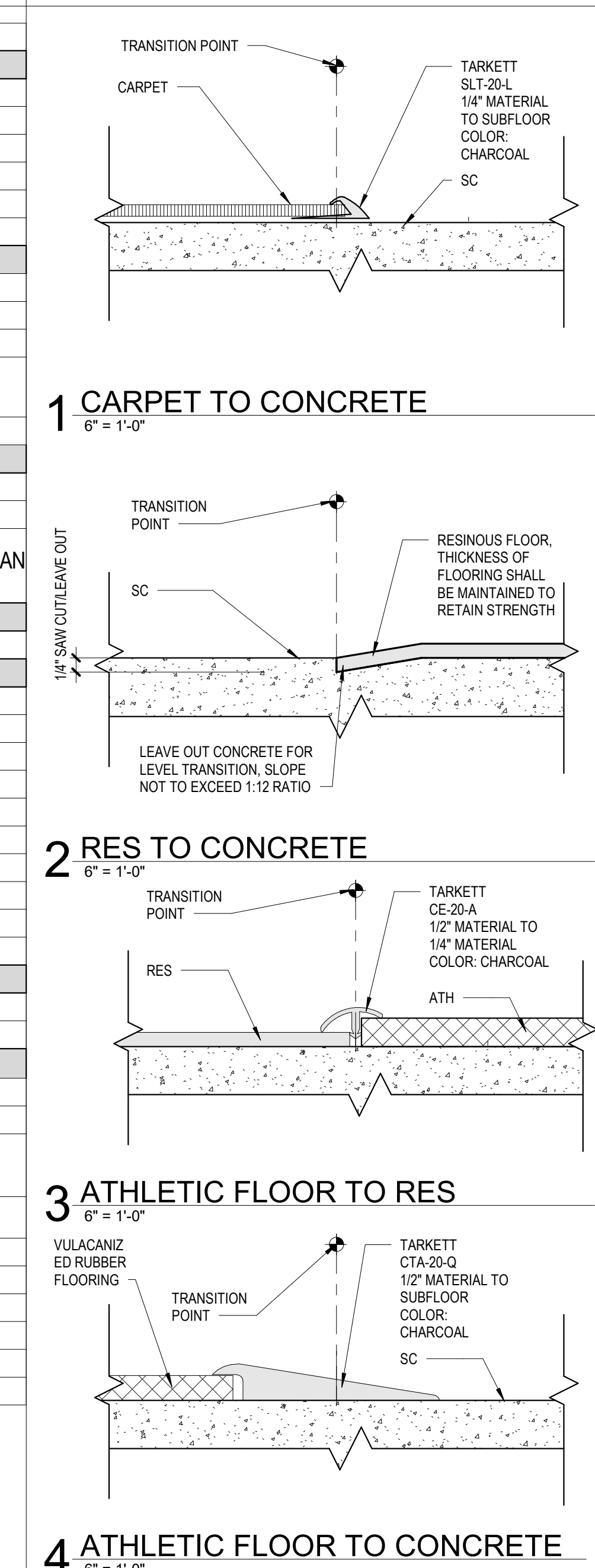
SHEET TITLE:
**FINISH FIRST FLOOR
PLAN - OVERALL**

SHEET NUMBER:
A109
121 OF 272 SHEETS
05/03/2024

FINISH LEGEND

FINISH	PRODUCT NAME	MANUFACTURER	STYLE	COLOR	SIZE	NOTES
CEILINGS						
ACT-1	TYPICAL ACOUSTICAL SUSPENDED TILE	ARMSTRONG	ULTIMA - BEVELED TEGULAR	WHITE	24" X 24" X 3/4"	MODEL 1911 - INSTALL W/ 15/16" PRELUDE GRID
ACT-2	KITCHEN ACOUSTICAL CEILING TILE	ARMSTRONG	KITCHEN ZONE - SQUARE LAY-IN	WHITE	24" X 24" X 5/8"	MODEL 673 - INSTALL W/ 15/16" PRELUDE GRID
CONC	CONCRETE - UNFINISHED					
EXP/P-1	EXPOSED CONSTRUCTION, PAINTED			P-1		
GYP-1	TYPICAL GYP CEILING, PAINTED			P-1		
GYP-2	MOISTURE RESISTANT GYP - WET LOCATION, PAINTED			P-1		
FLOORING						
ATH-1	ATHLETIC FLOORING	ECORE	RALLY	ES502 DARK GRAY	14.5MM X 48" X 25 LF	
CPT-1	CARPET TILE	MANNINGTON	PRECISION	INTERVAL	24" X 24"	
CPT-2	CARPET TILE	MANNINGTON	ALIGN	INTERVAL	24" X 24"	
RST-1	RUBBER STAIR TREAD AND RISER	JOHNSONITE	COLOR SPLASH - STAIRWELL MANAGEMENT	SPECKLED RUBBER TILE - VF2 - OAK ALLEY CB		TREADS, RISERS AND LANDINGS
SC-1	SEALED CONCRETE					CLEAR LIQUID SEALER OVER EXPOSED CONCRETE FLOOR
MILLWORK						
PLAM-1	PLASTIC LAMINATE CABINETRY	WILSONART		HIGHLINE		
SS-1	SOLID SURFACE COUNTERTOP	FORMICA	EVERFORM	BIANCO MINERAL		
SS-2	SOLID SURFACE SHOWER WALL, BASE, AND PAN	INPRO	PRISM	GLACIER - P9055	REF. TO PLAN	ADA ROLL IN BASE, EASED EDGE, WALLS TO EXTEND FROM TOP OF SHOWER PAN TO CEILING
WALL BASE						
RB-1	RESILIENT BASE	TARKETT	4" COVE BASE	CHARCOAL		
PAINTS & COATINGS						
P-1	PAINT - FIELD COLOR, WALLS & CEILINGS	SHERWIN WILLIAMS	WALLS - EGGHELL, CLGS - FLAT	SW 7551 GREEK VILLA		
P-2	PAINT - ACCENT 1	SHERWIN WILLIAMS	EGGSHELL	SW 9164 ILLUSIVE GREEN		
P-3	PAINT - ACCENT 2	SHERWIN WILLIAMS	EGGSHELL	SW 7622 HOMBURG GRAY		
P-4	PAINT - ACCENT 3	SHERWIN WILLIAMS	EGGSHELL	SW 7624 SLATE TILE		
P-5	PAINT - CEILINGS	SHERWIN WILLIAMS	FLAT	SW 7551 GREEK VILLA		
P-6	PAINT - WATER BASED LATEX ENAMEL	SHERWIN WILLIAMS	SEMIGLOSS	SW 7551 GREEK VILLA		
P-7	PAINT - HOLLOW METAL DOORS AND FRAMES	SHERWIN WILLIAMS	SEMIGLOSS	SW 7068 GRIZZLE GRAY		
P-8	PAINT - WATER BASED LATEX ENAMEL	SHERWIN WILLIAMS	SEMIGLOSS	SW 7624 SLATE TILE		
RES-1	RESINOUS FLOORING	STONHARD	STONCLAD GS	COOL SHALE		INSTALL W/ INTEGRAL COVE TO 6" HIGH
RES-2	RESINOUS WALL SYSTEM	STONHARD	STONGLAZE VSD	BONE		PRODUCT TO BE APPLIED TO FULL HEIGHT OF WALL
WINDOW						
WS-1	WINDOW SHADE - MANUAL	SWF CONTRACT	MANUAL - SOHO 1600 SERIES	1602 CORNSILK		3% OPEN
WS-2	WINDOW SHADE - ELECTRIC	SWF CONTRACT	ELECTRIC - SOHO 1600 SERIES	1602 CORNSILK		3% OPEN
MISC						
AP-1	ACOUSTIC PANEL (SOUND ABSORBING WALL UNITS)	ARMSTRONG	TECTUM	OAT (TOT)	24" X 48"	
AP-2	ACOUSTIC PANEL - CEILING SUSPENDED	G&S ACOUSTICS	MELODY MFLOAT-CANVAS	CUSTOM COLOR	3'10" HEX X 7'8"W	MATCH SHERWIN WILLIAMS PAINT SW 7624 SLATE TILE
CG-1	CORNER GUARD	INPRO	430 - STAINLESS STEEL-	NO.4 SATIN FINISH	2" WING - 16 GAUGE	CORNER GUARDS TO EXTENT FULL HEIGHT @ ALL OUTSIDE CORNERS UNO
FRP-1	FIBER REINFORCED PLASTIC	MARLITE	FRP	P100 - WHITE	4'X8' SHEET	
PT-1	PORCELAIN TILE	DALTILE	LIGHT POLISH	VISION 1G95	12" X 24"	GROUT: MAPEI 14 BISCUIT
ST-1	STAIN - FIELD			STAIN TO MATCH PLAM-1		
ST-2	STAIN - ACCENT			STAIN TO MATCH WD-1		
TP-1	TOILET PARTITIONS	BOBRICK	DURALINE CGL	CEILING MOUNTED		BLACK CORE
WP-1	WALL PROTECTION	INPRO	PALLADIUM RIGID SHEET	AMERICAN TEAK 0553	.040x 4'X8' SHEET	
WD-1	WOOD VENEER DOOR	VT INDUSTRIES	WHITE MAPLE	BASIS OF DESIGN - RAVINE		

FLOOR TRANSITION DETAILS



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(314) 367-6100



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St. Louis, MO 63101
314.588.8381
www.oatesassociates.com



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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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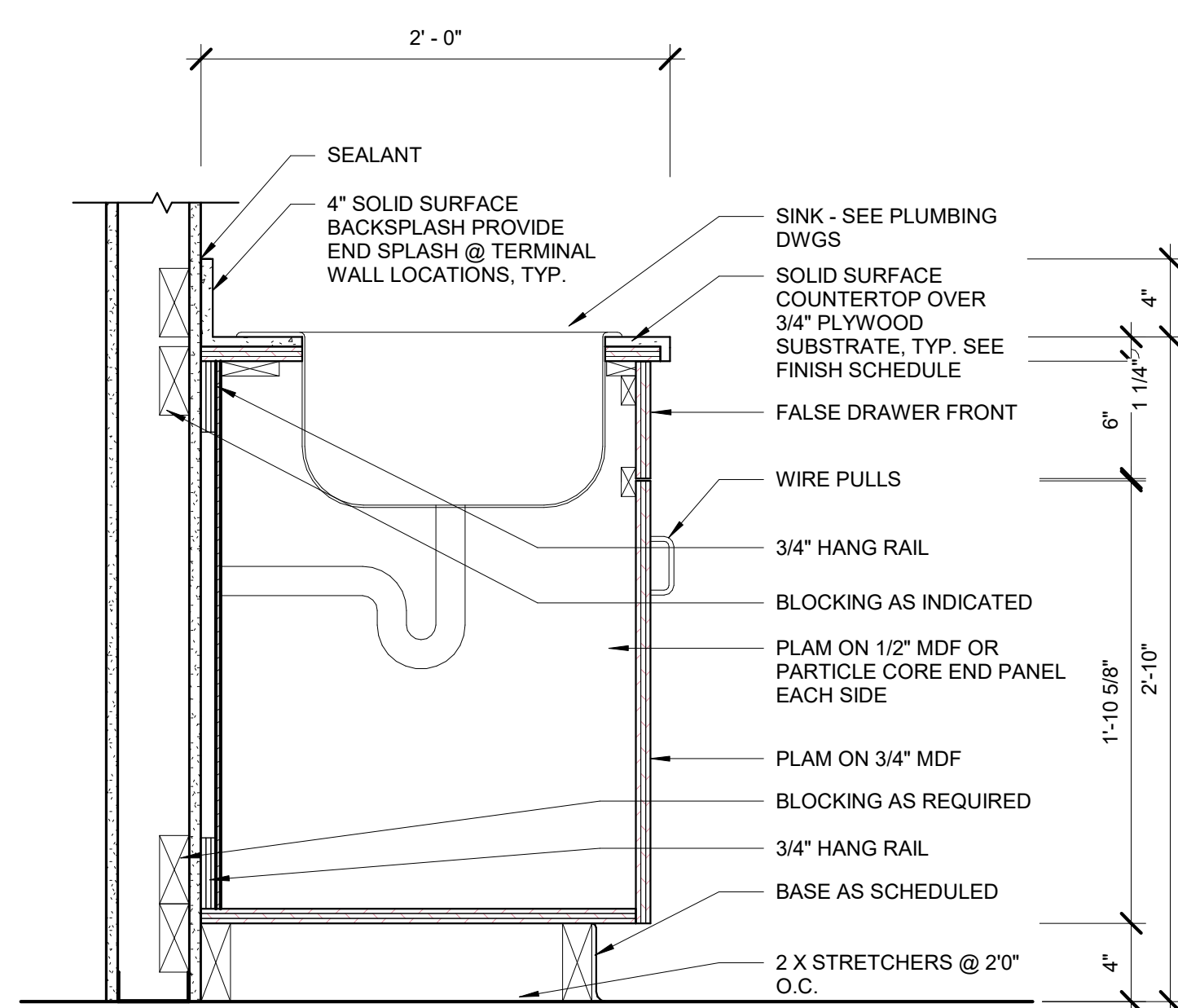
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**FINISH LEGEND AND
DETAILS**

SHEET NUMBER:

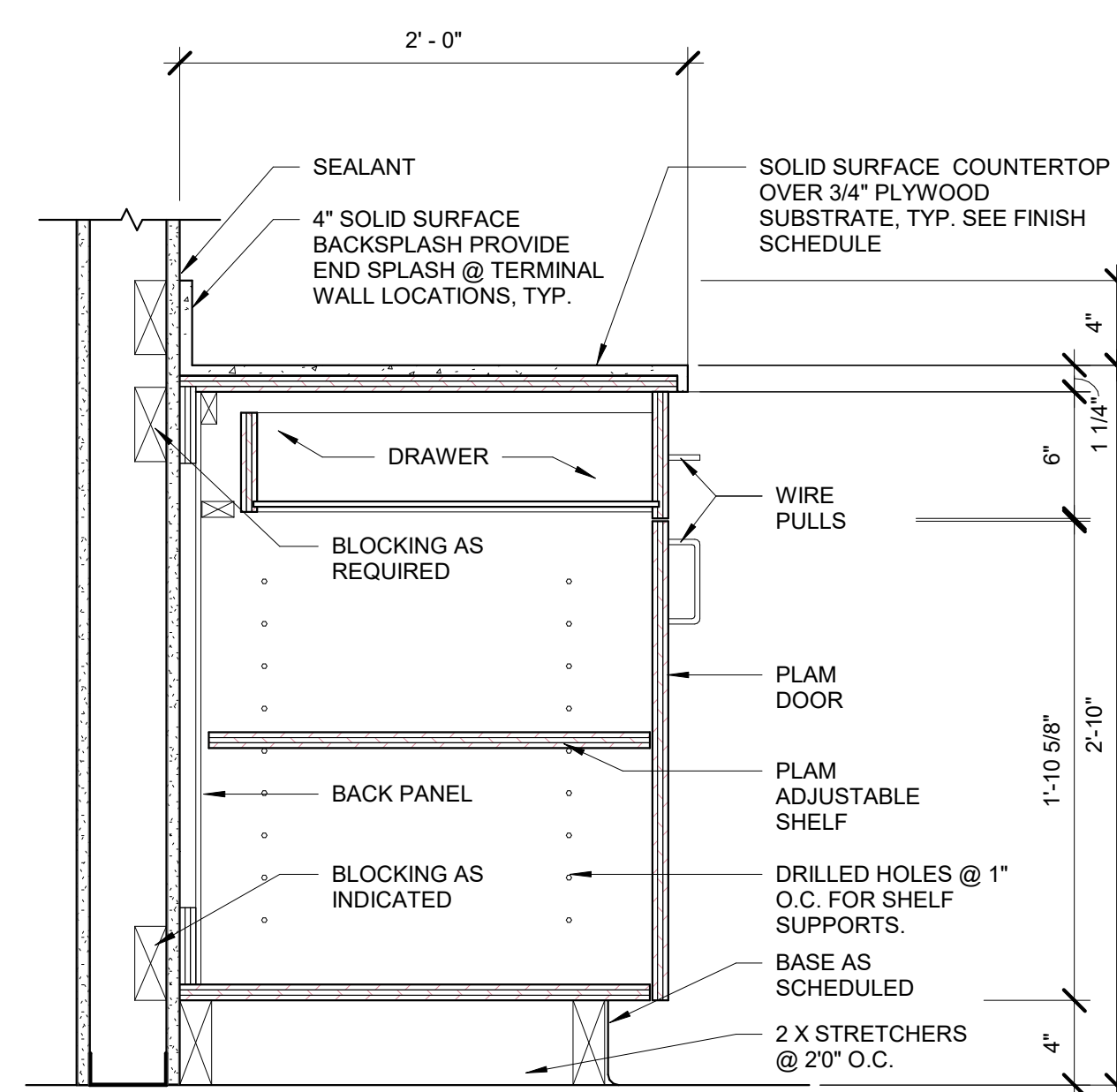
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122 OF 272 SHEETS
05/03/2024

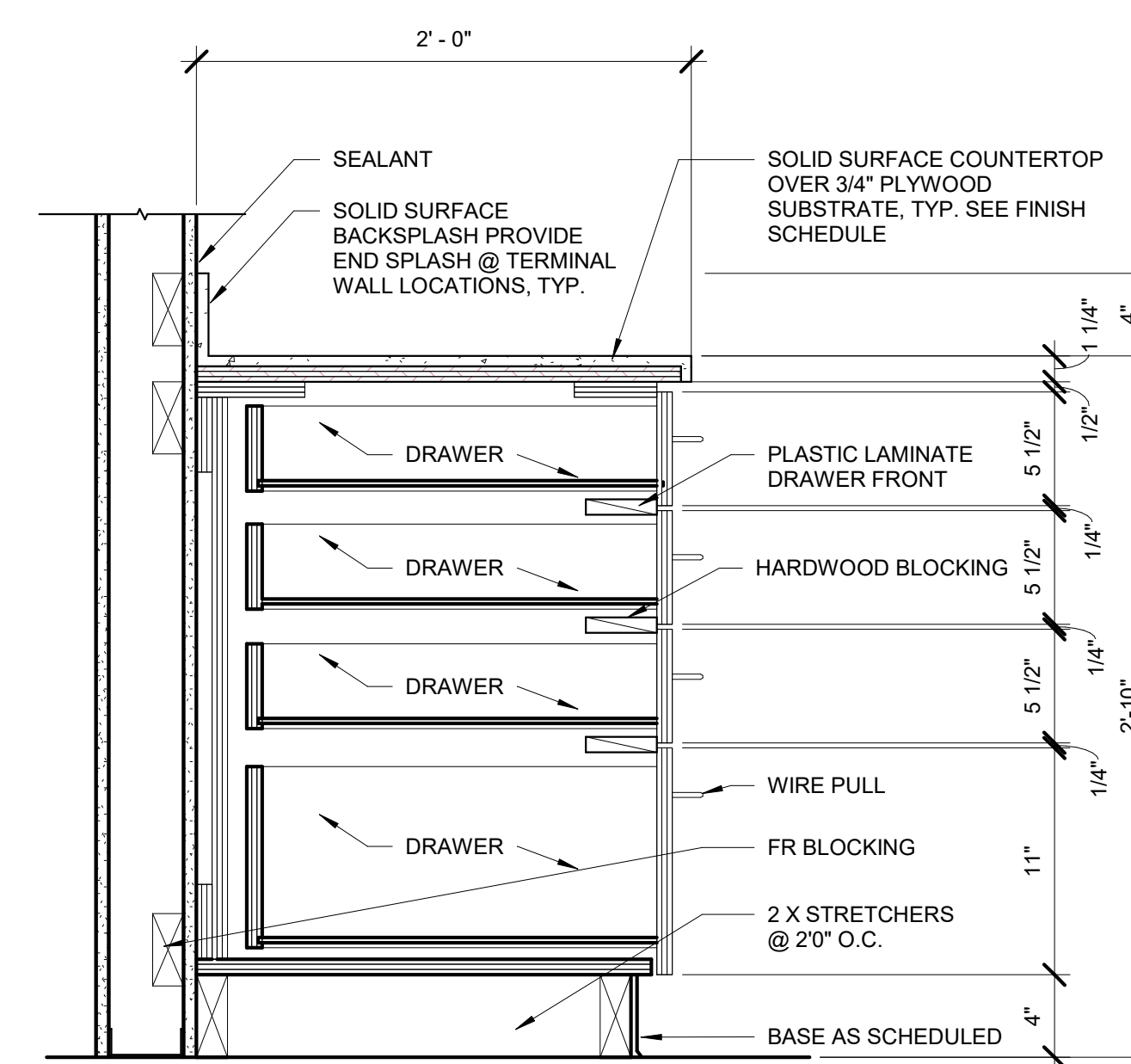
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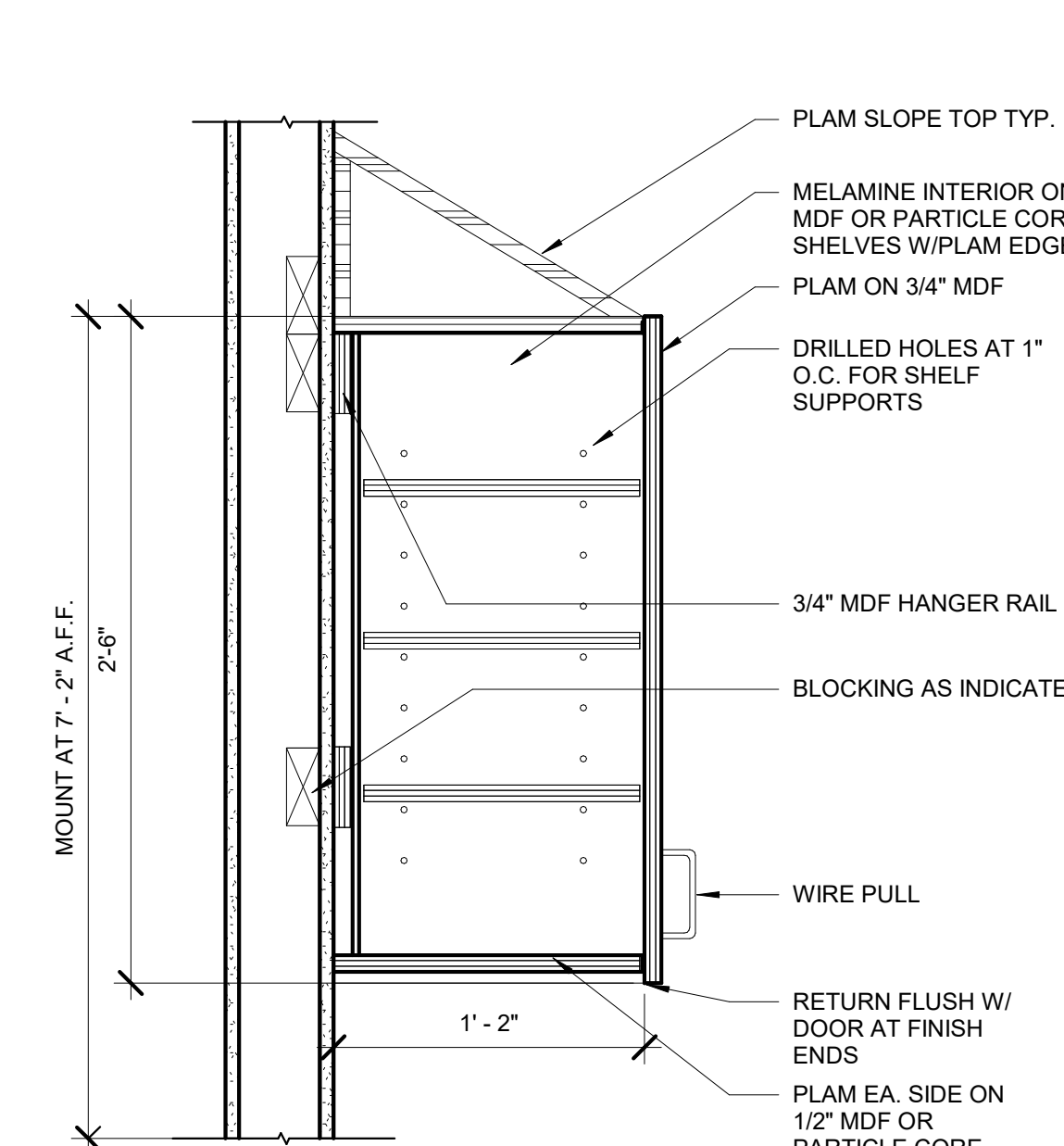
5 SINK BASE CABINET
1 1/2" = 1'-0"



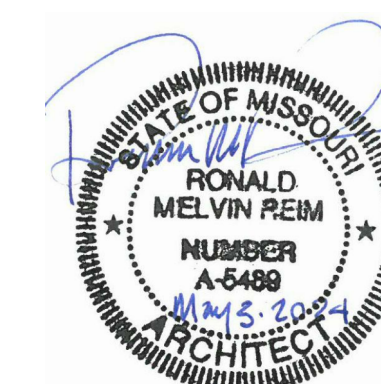
6 BASE CABINET w/ DOOR & DRAWER
1 1/2" = 1'-0"



7 BASE CABINET w/4 DRAWER
1 1/2" = 1'-0"



8 WALL CABINET SECTION
1 1/2" = 1'-0"



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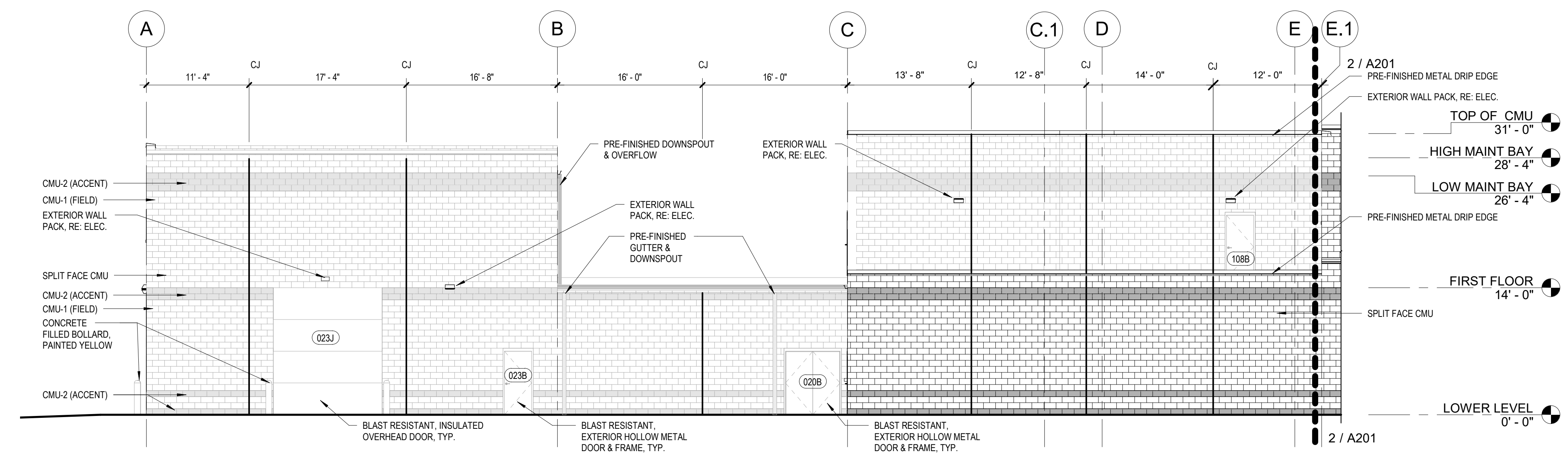
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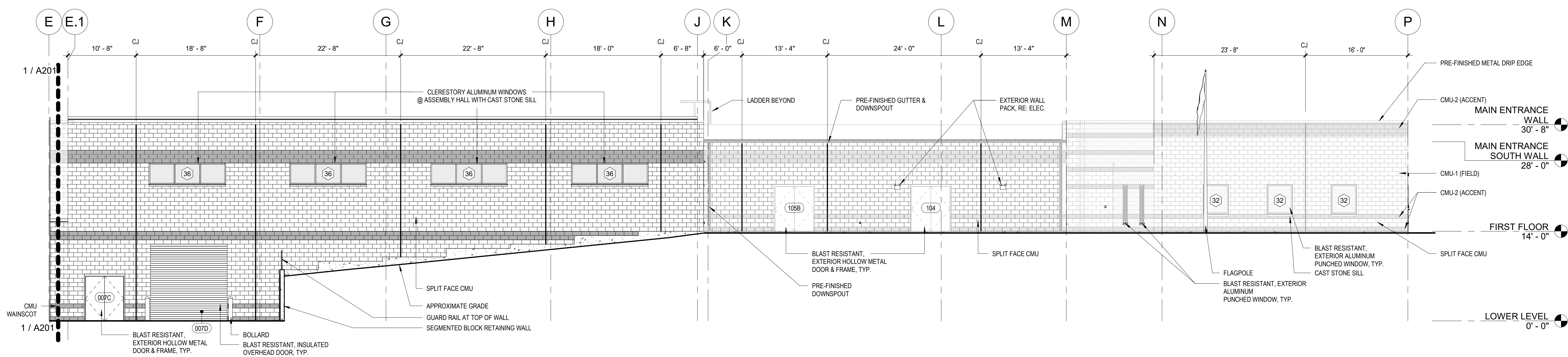
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DRAWN BY: JTK/CSH/JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
EXTERIOR
ELEVATIONS

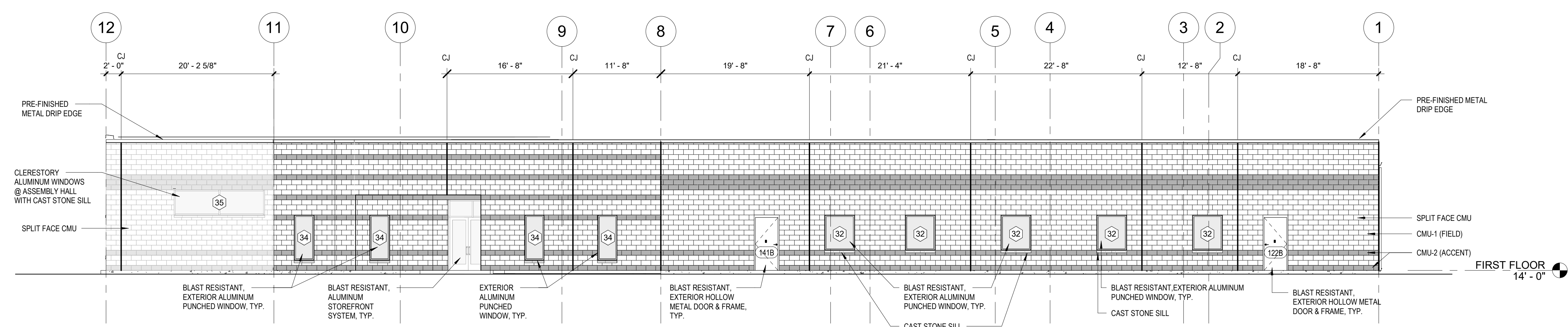
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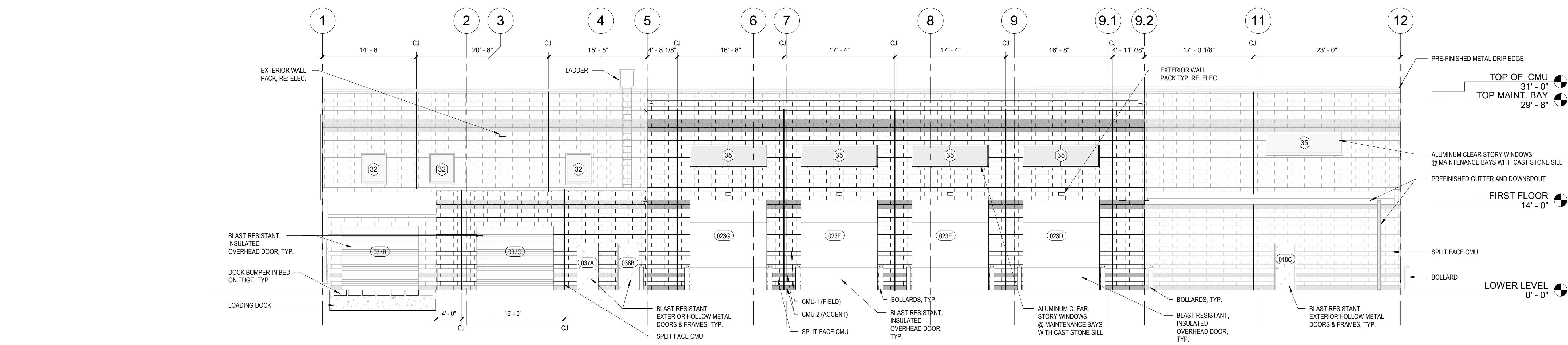
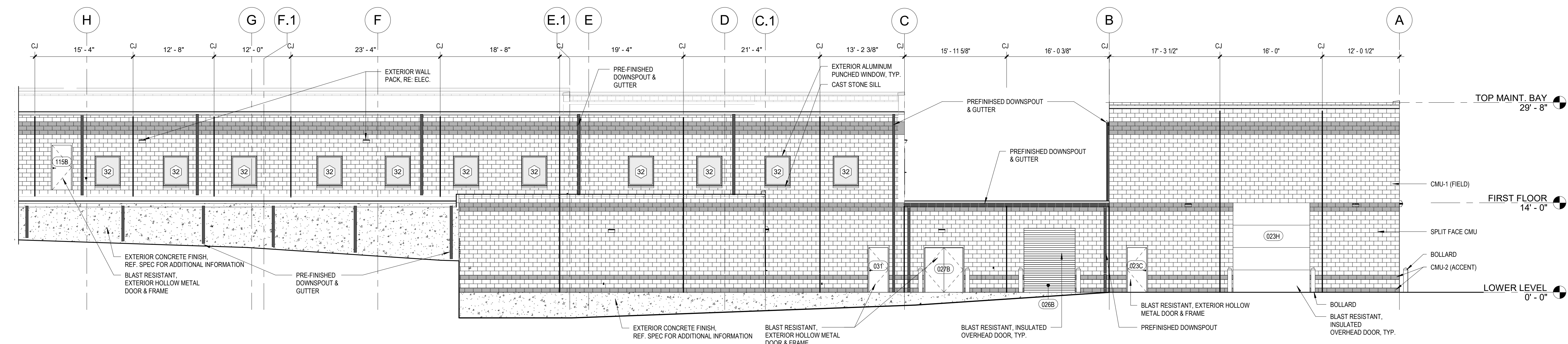
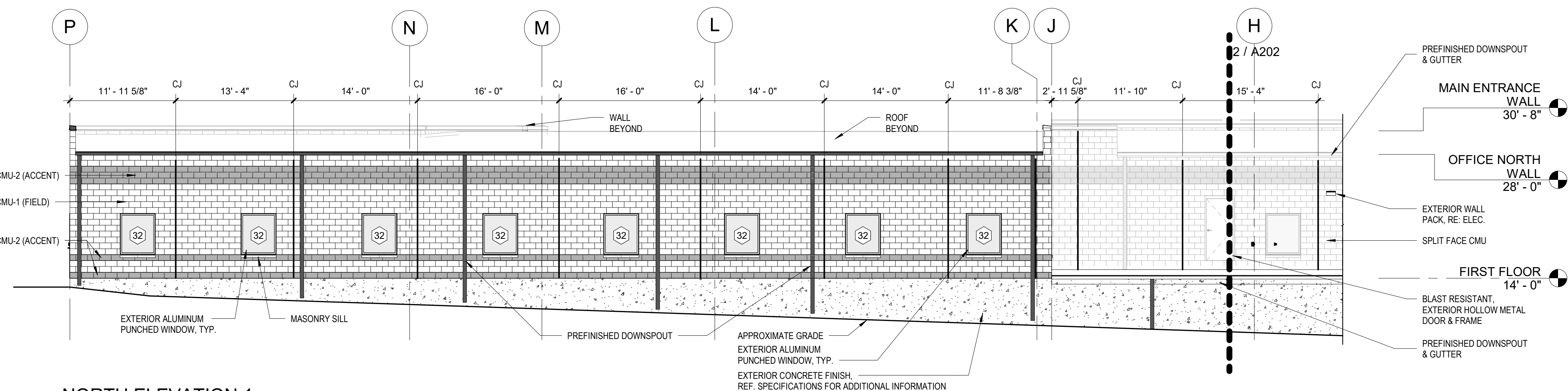
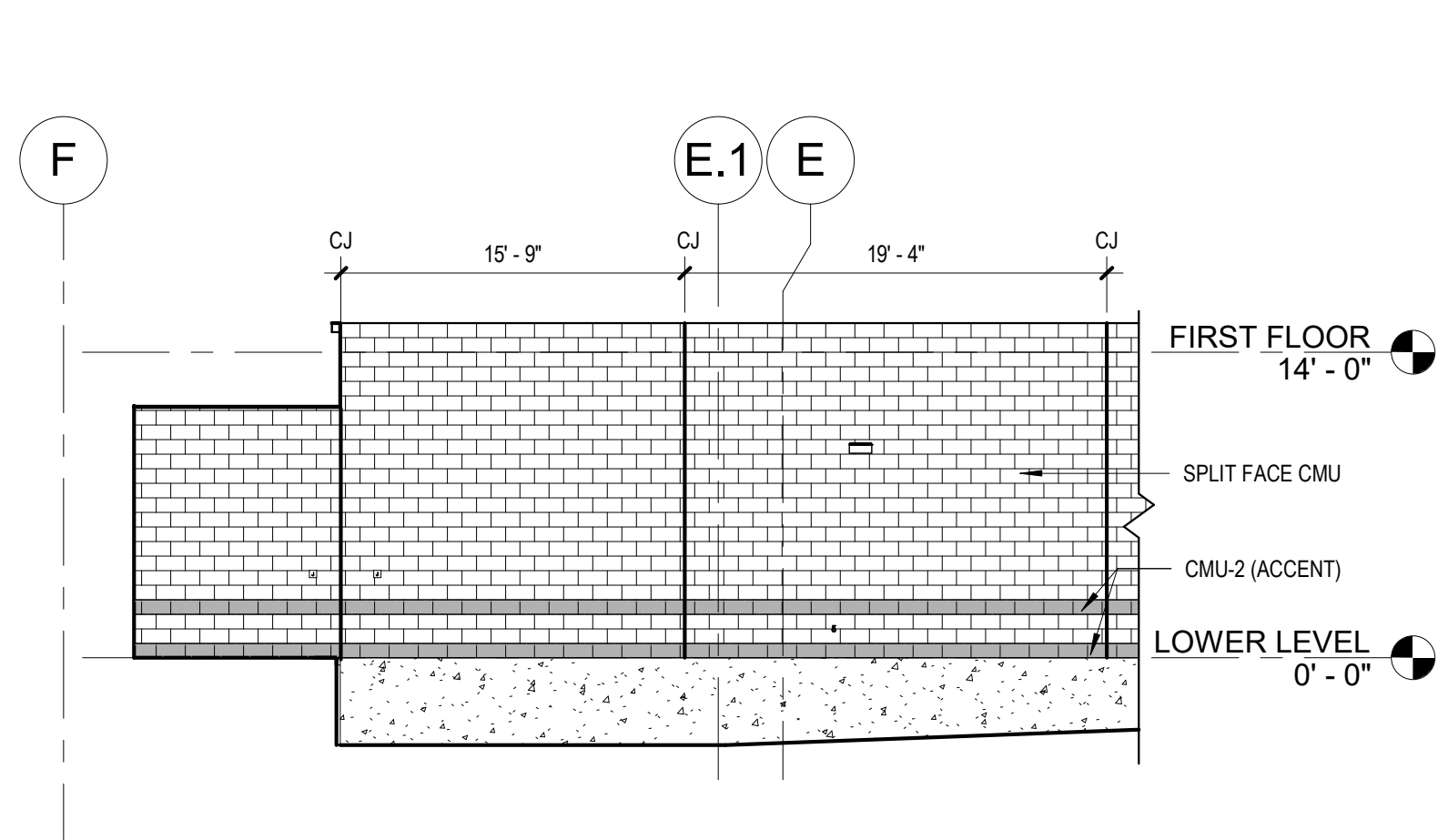
1 SOUTH ELEVATION 1
1/8" = 1'-0"



2 SOUTH ELEVATION 2
1/8" = 1'-0"



3 EAST ELEVATION
1/8" = 1'-0"



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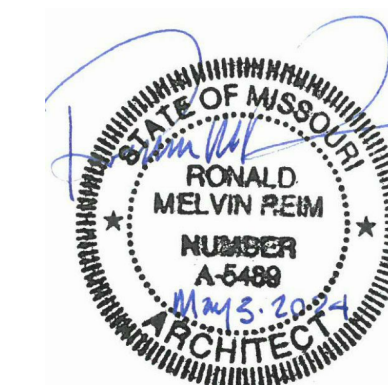
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SHEET TITLE:
**EXTERIOR
ELEVATIONS**

SHEET NUMBER:
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124 OF 272 SHEETS
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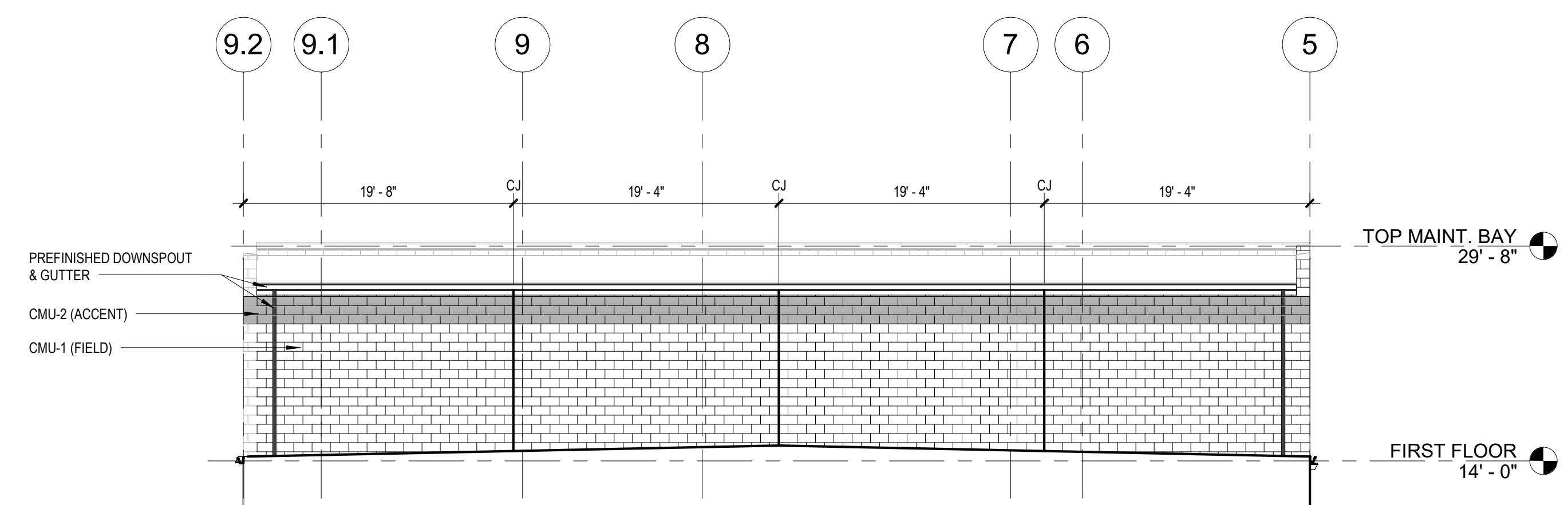
CAD DWG FILE:
DRAWN BY: JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
EXTERIOR
ELEVATIONS

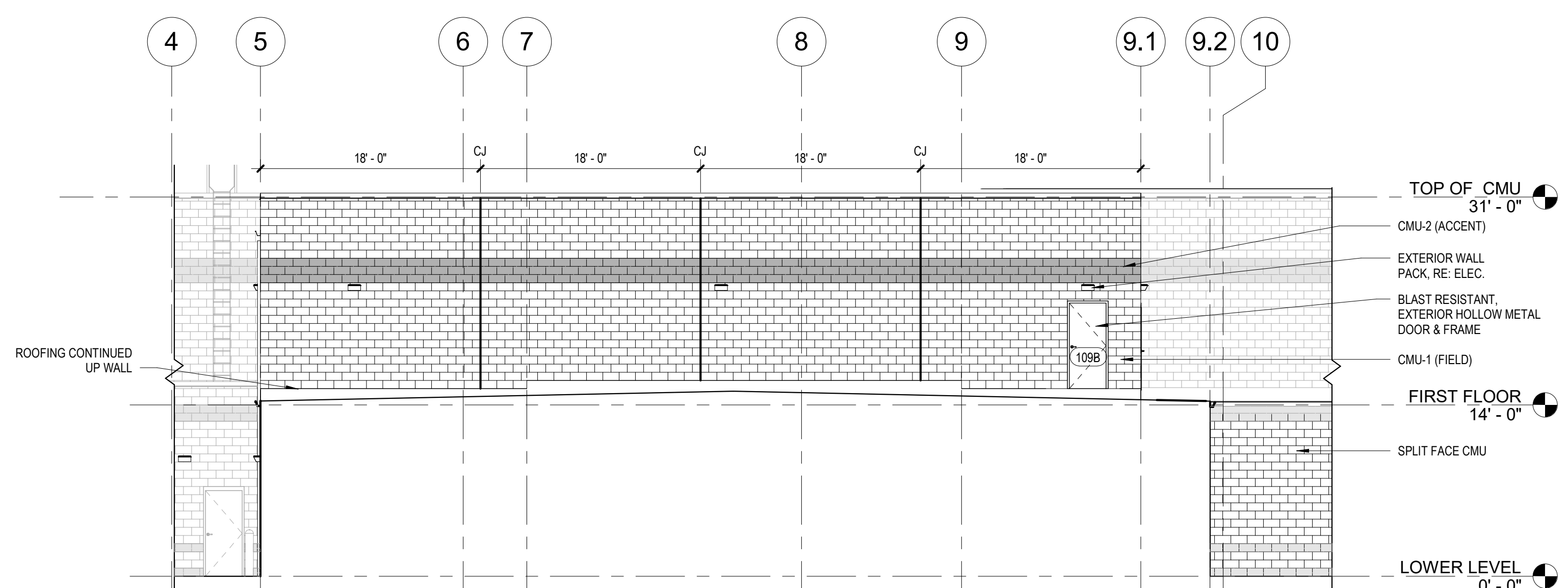
SHEET NUMBER:

A203

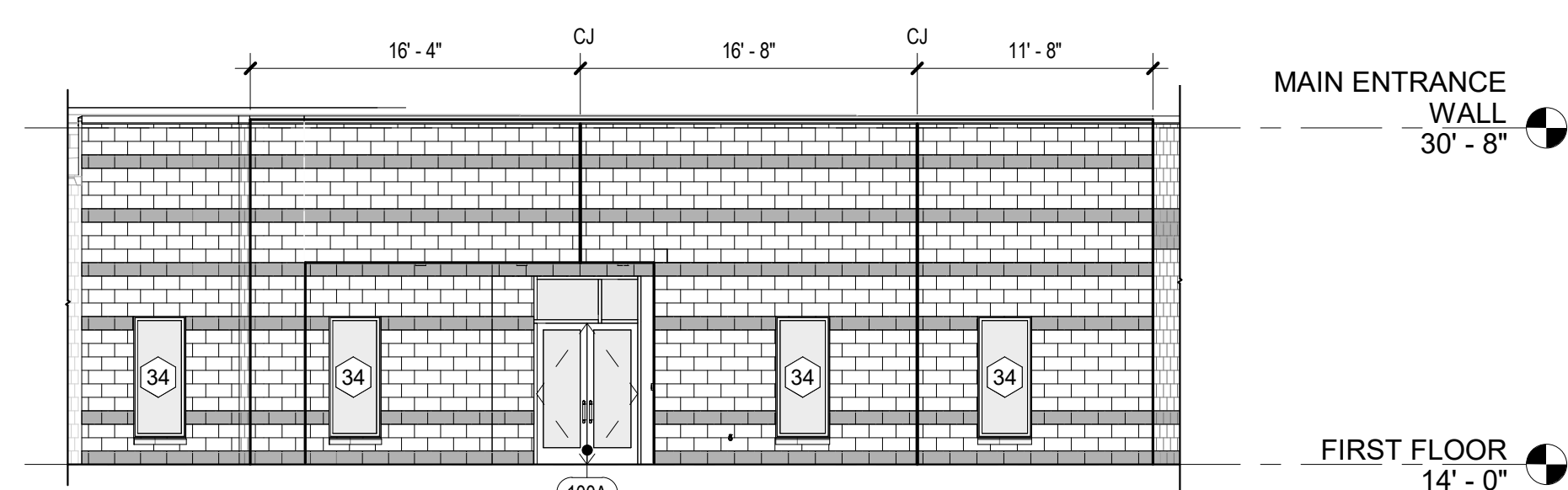
125 OF 272 SHEETS
05/03/2024



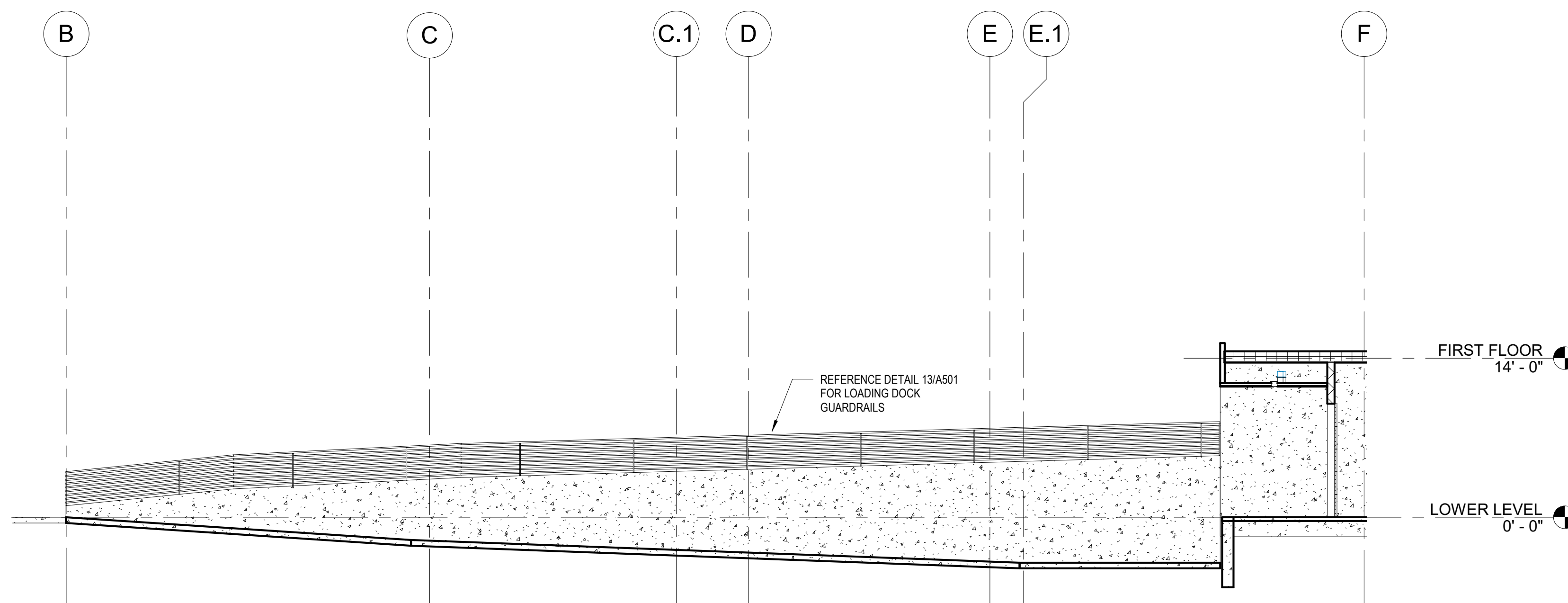
1 PARTIAL EAST ELEVATION
1/8" = 1'-0"



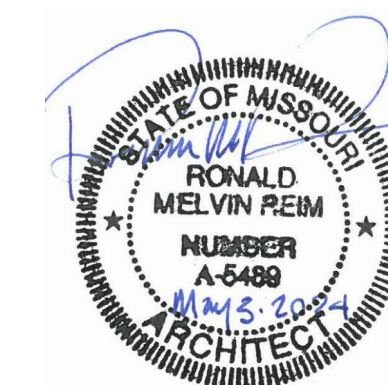
2 PARTIAL WEST ELEVATION
1/8" = 1'-0"



4 PARTIAL ELEVATION AT FRONT ENTRY
1/8" = 1'-0"



3 LOADING DOCK NORTH ELEVATION
1/8" = 1'-0"



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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE:
REVISION:
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REVISION:
DATE:
ISSUE DATE: 05/03/2024

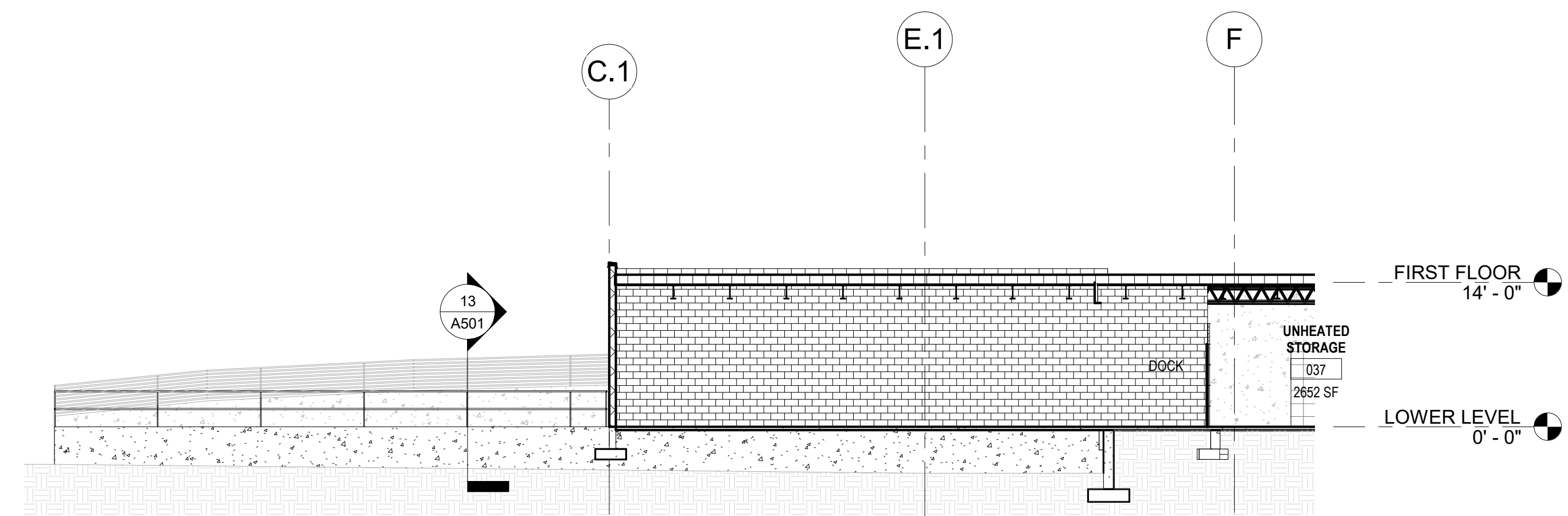
CAD DWG FILE:
DRAWN BY: JTK/CSH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
BUILDING SECTIONS

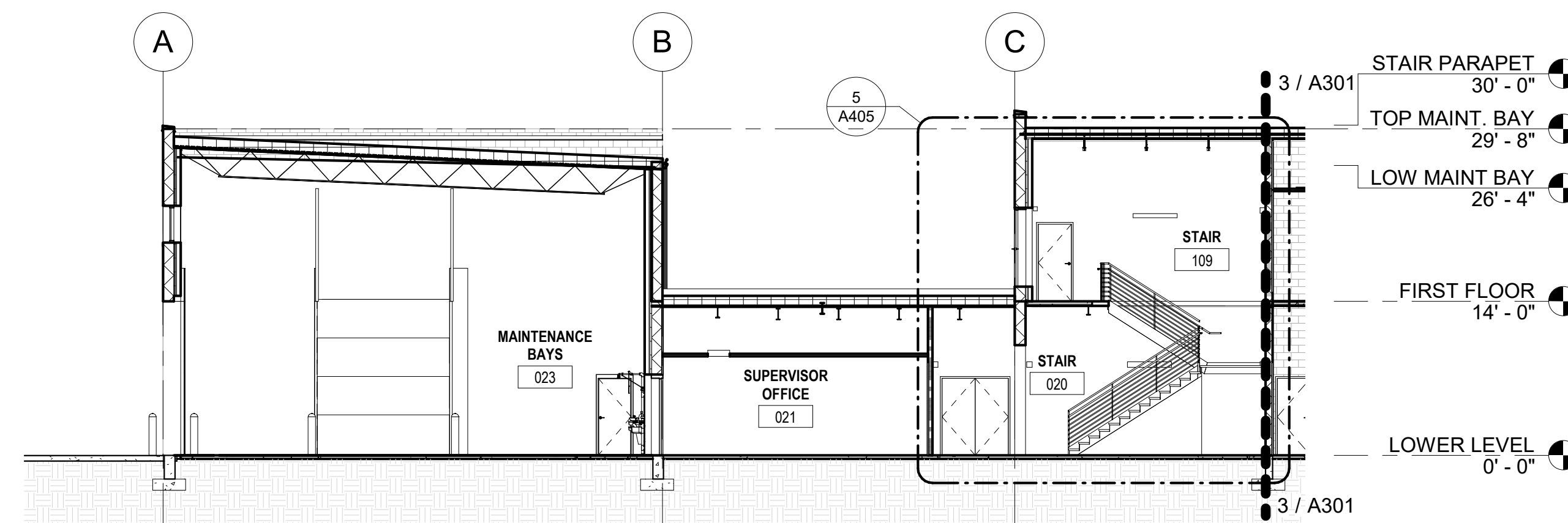
SHEET NUMBER:

A301

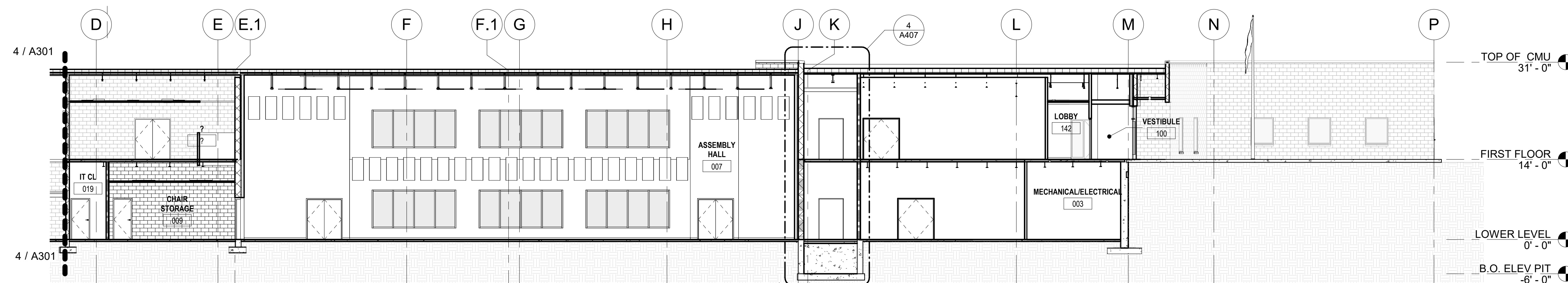
126 OF 272 SHEETS
05/03/2024



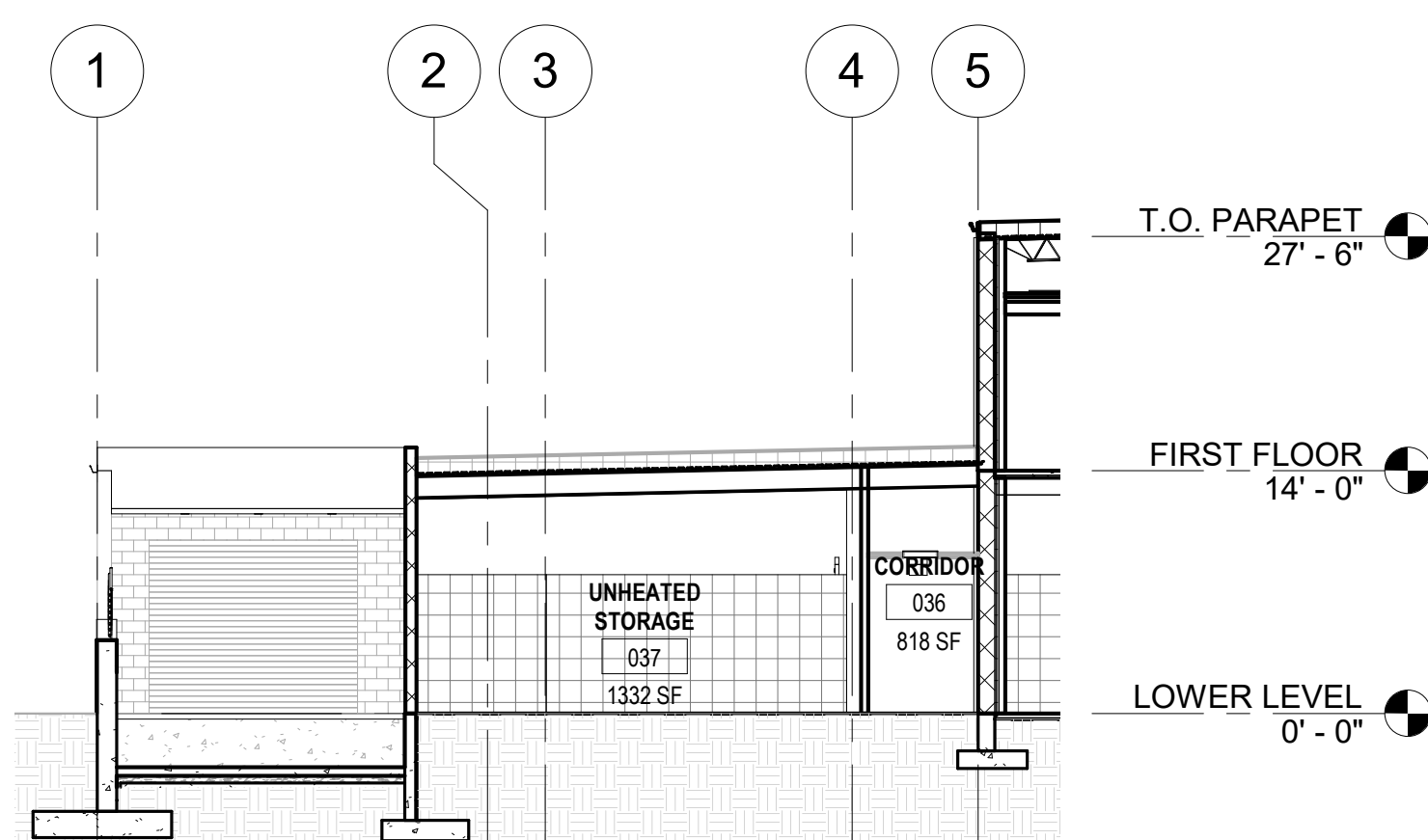
5 EAST-WEST SECTION - DOCK RAMP
3/32" = 1'-0"



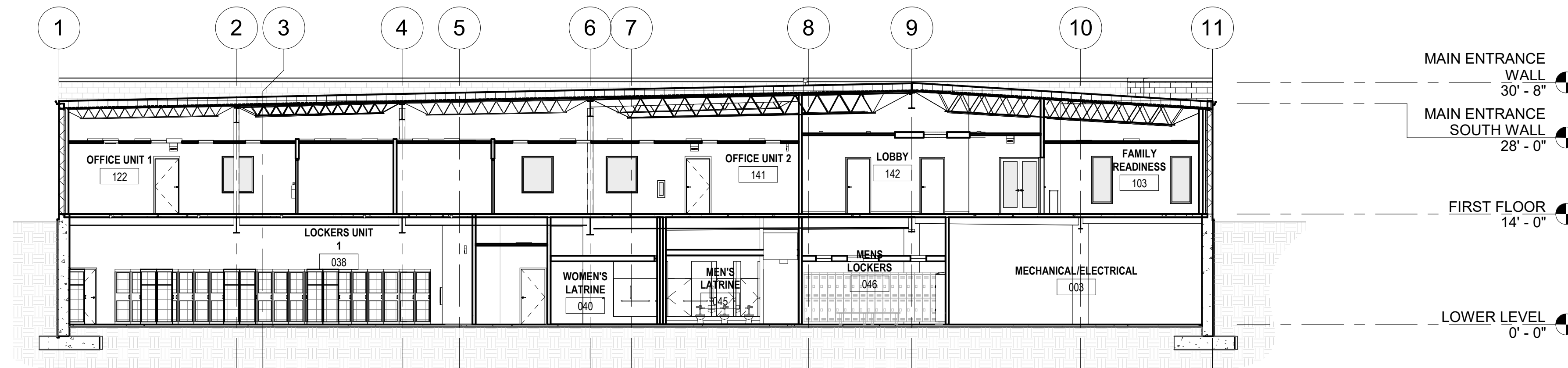
4 EAST-WEST BUILDING SECTION
3/32" = 1'-0"



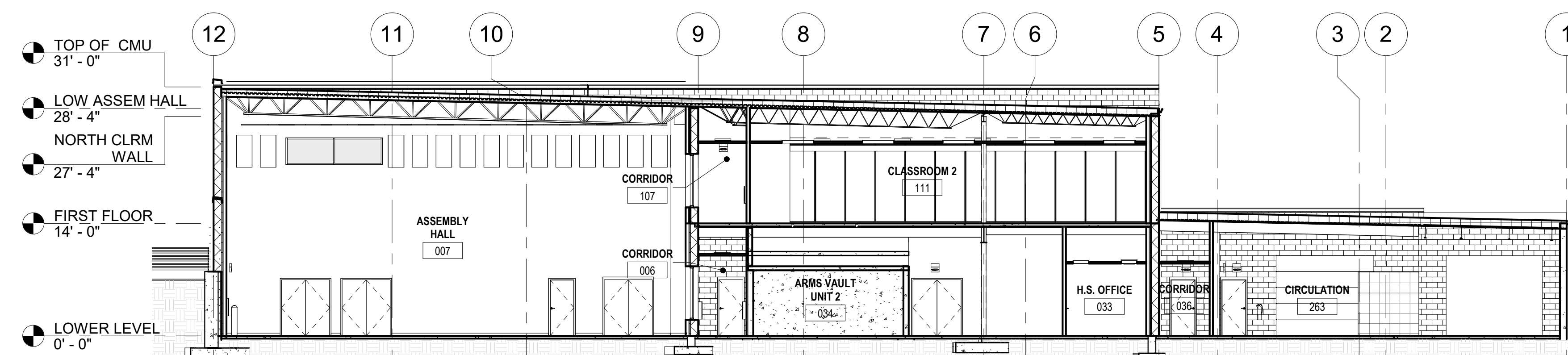
3 EAST-WEST BUILDING SECTION
3/32" = 1'-0"



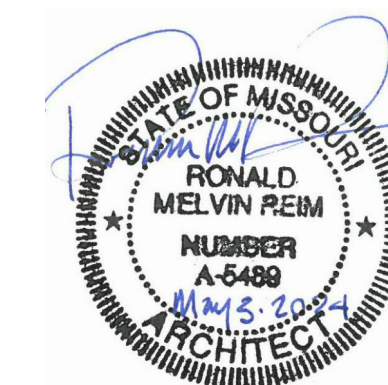
6 NORTH-SOUTH SECTION - DOCK RAMP
3/32" = 1'-0"



2 NORTH-SOUTH BUILDING SECTION
3/32" = 1'-0"



1 NORTH-SOUTH BUILDING SECTION
3/32" = 1'-0"



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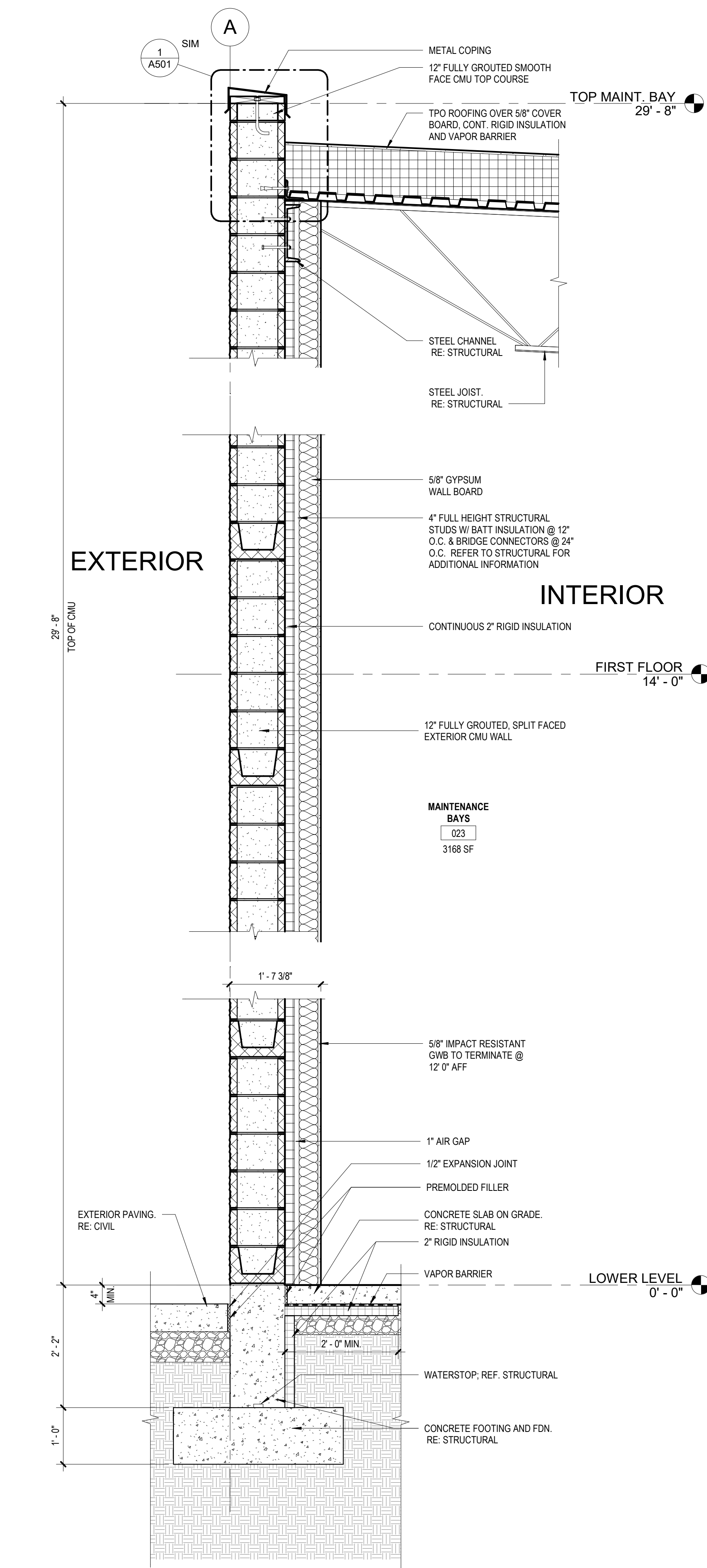
CAD DWG FILE:
DRAWN BY: CSH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
WALL SECTIONS

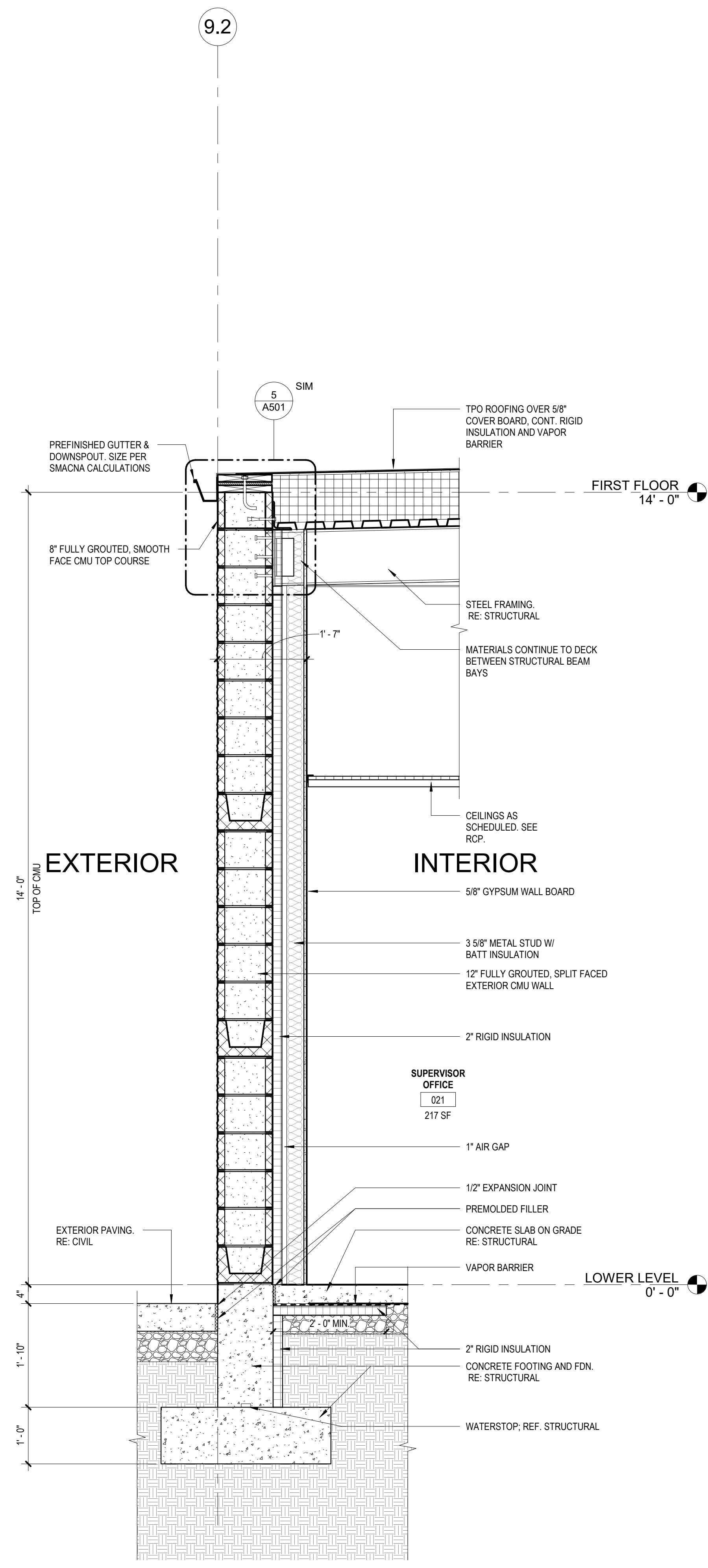
SHEET NUMBER:

A302

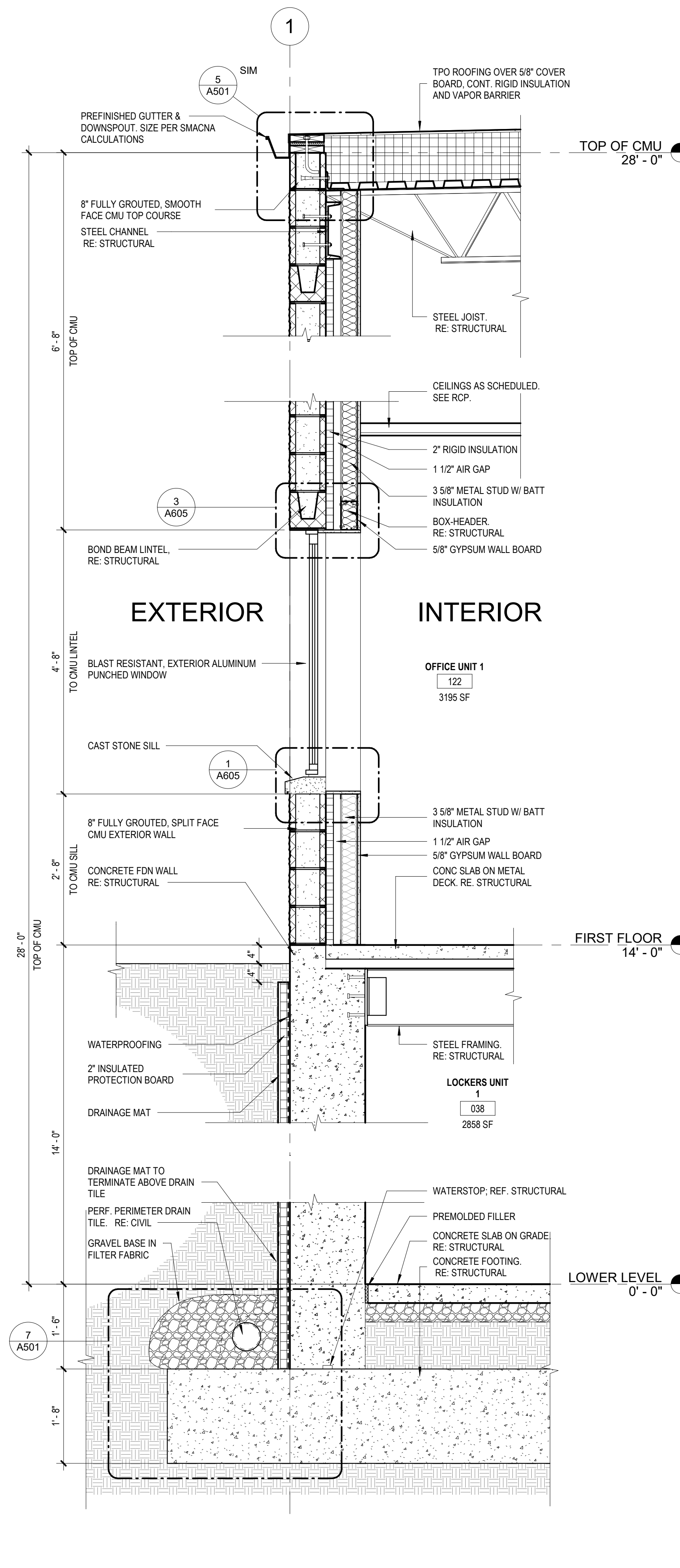
127 OF 272 SHEETS
05/03/2024



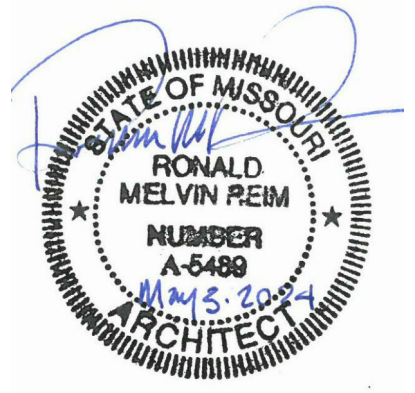
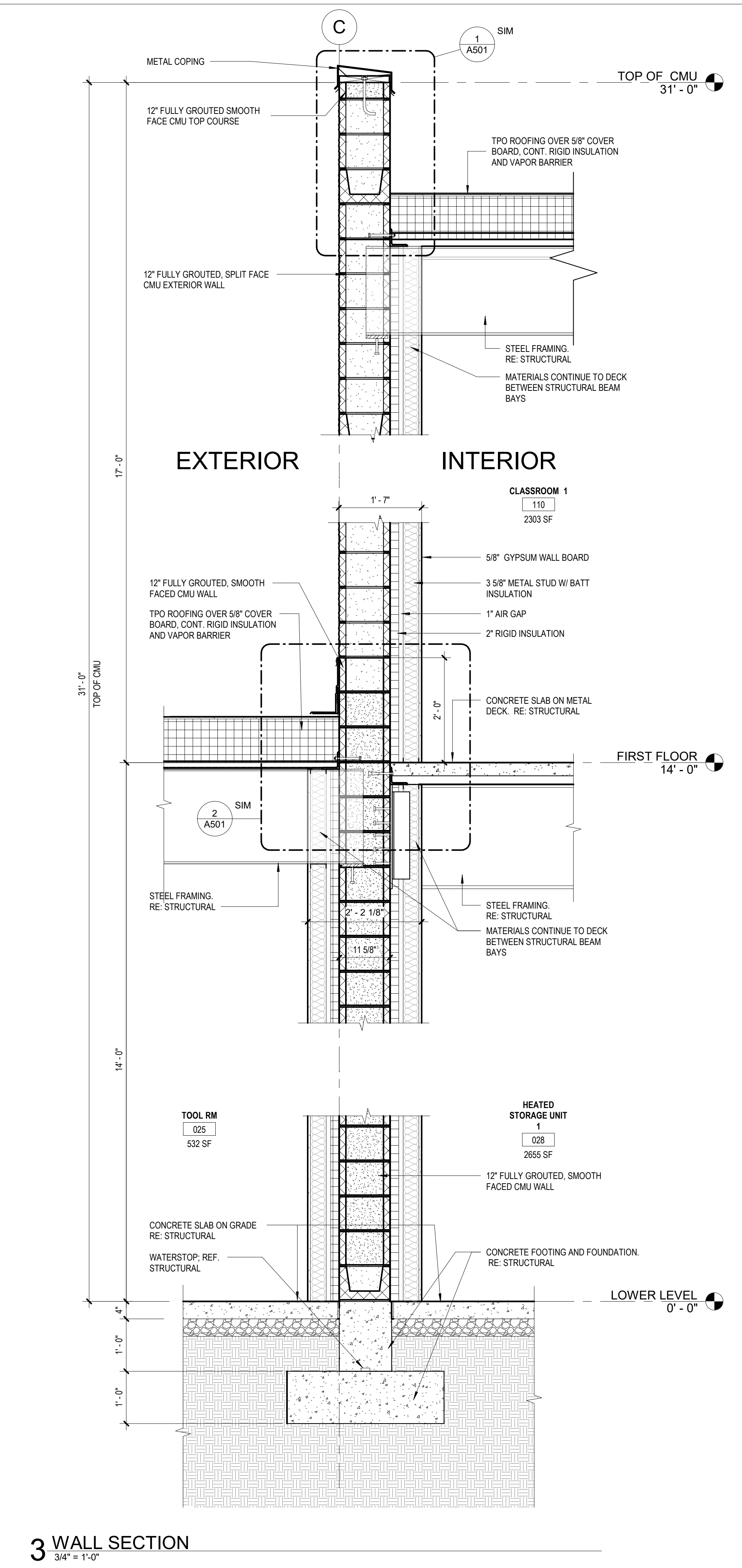
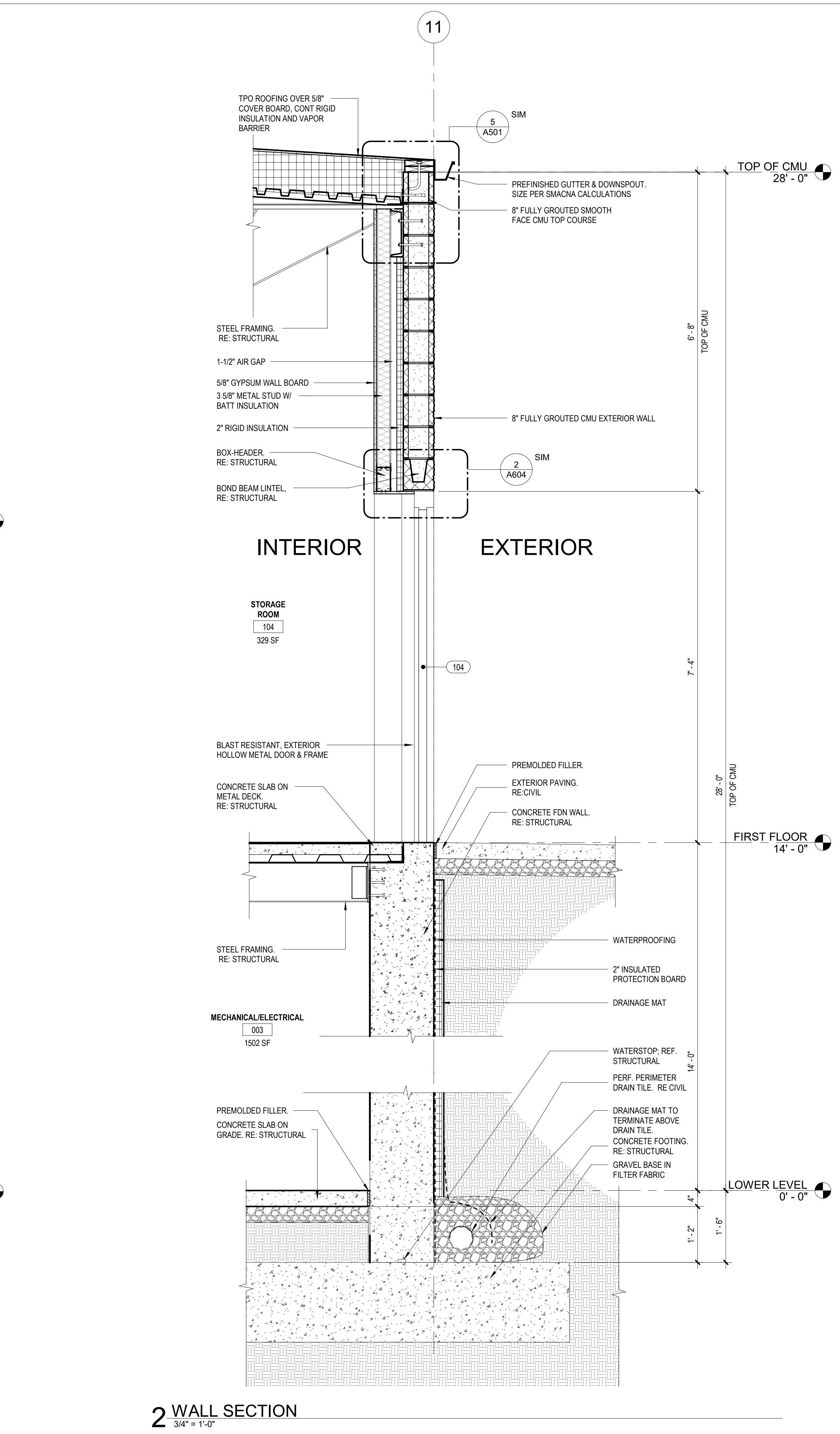
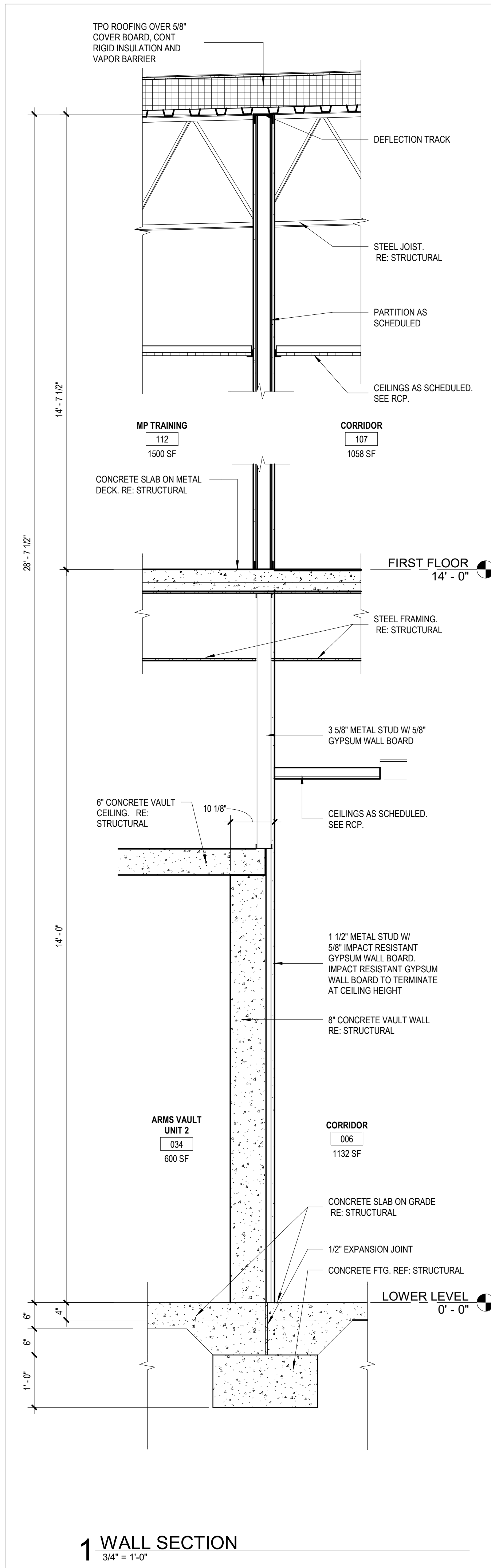
1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



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



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SITE # 6322
FACILITY # 8136322001

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ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: CSH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:

A303

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05/03/2024



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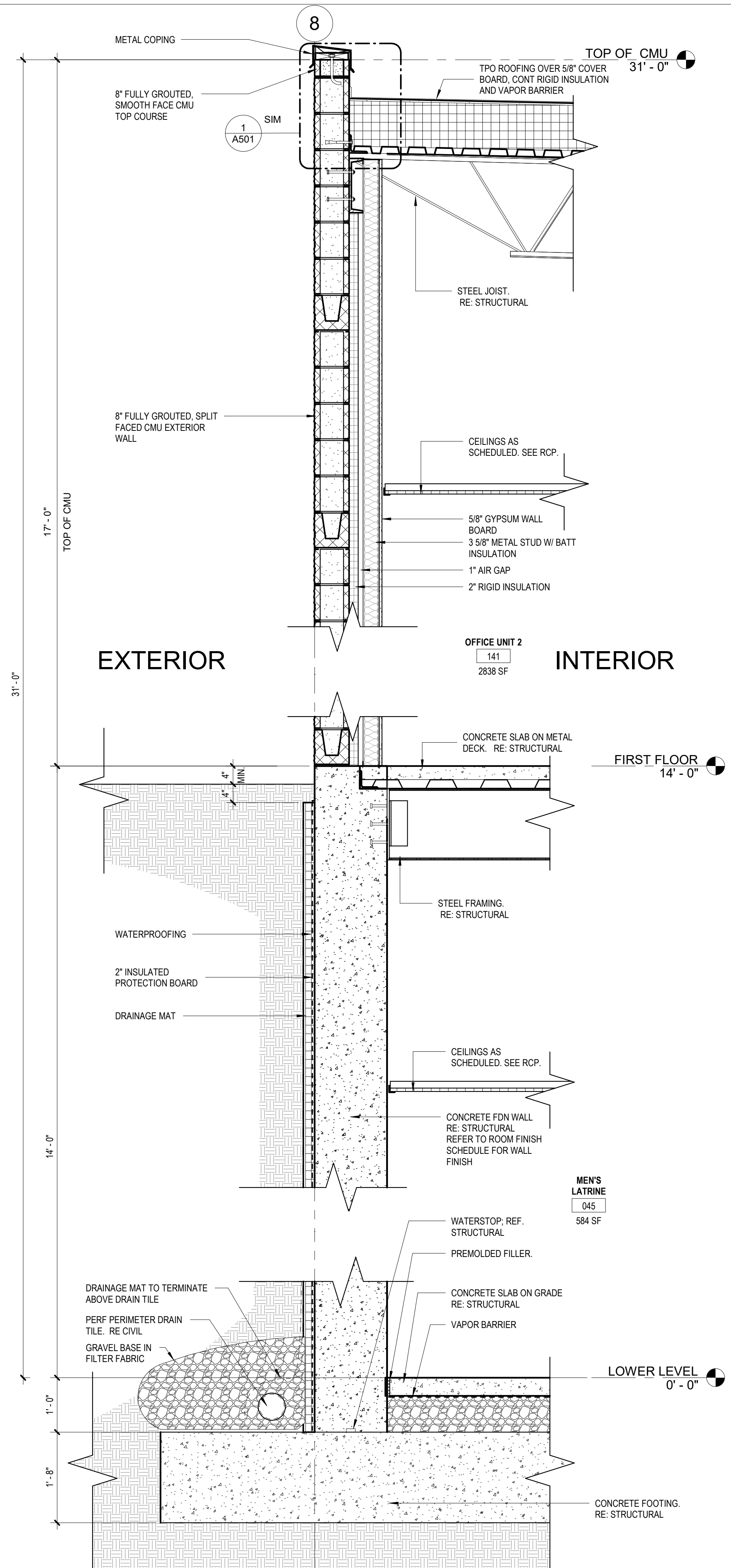
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CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
WALL SECTIONS

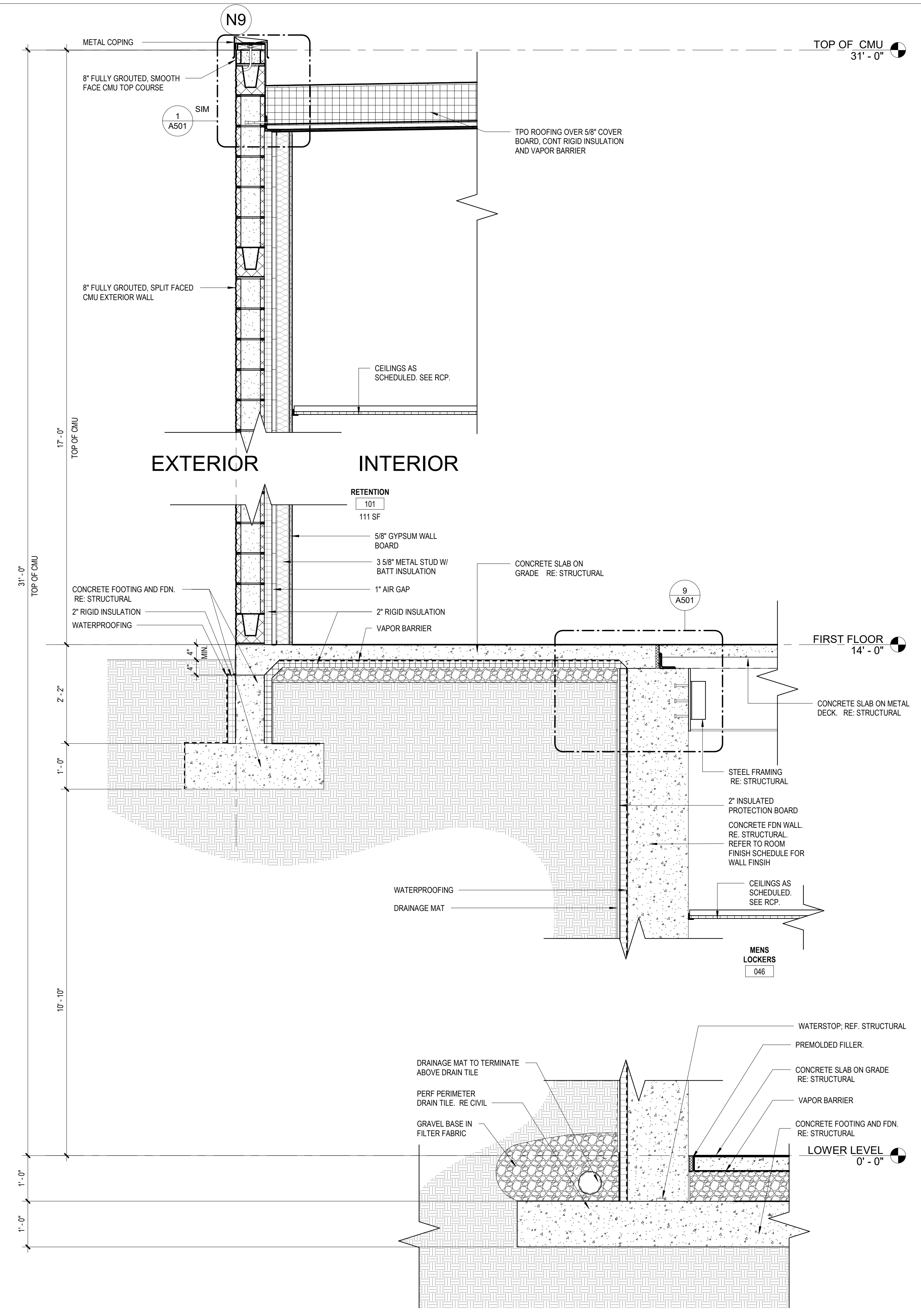
SHEET NUMBER:

A304

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05/03/2024



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



2 WALL SECTION
3/4" = 1'-0"



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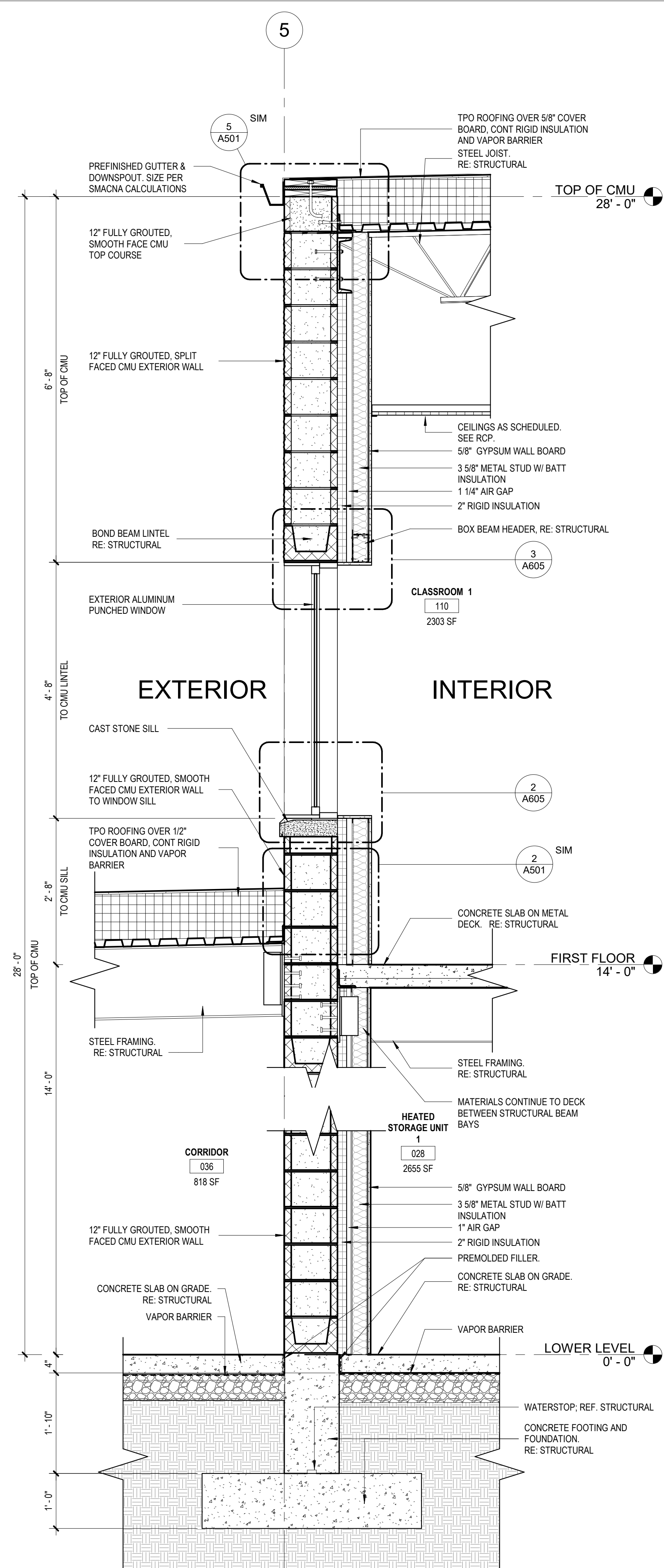
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ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: CSH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS
SHEET TITLE:
WALL SECTIONS

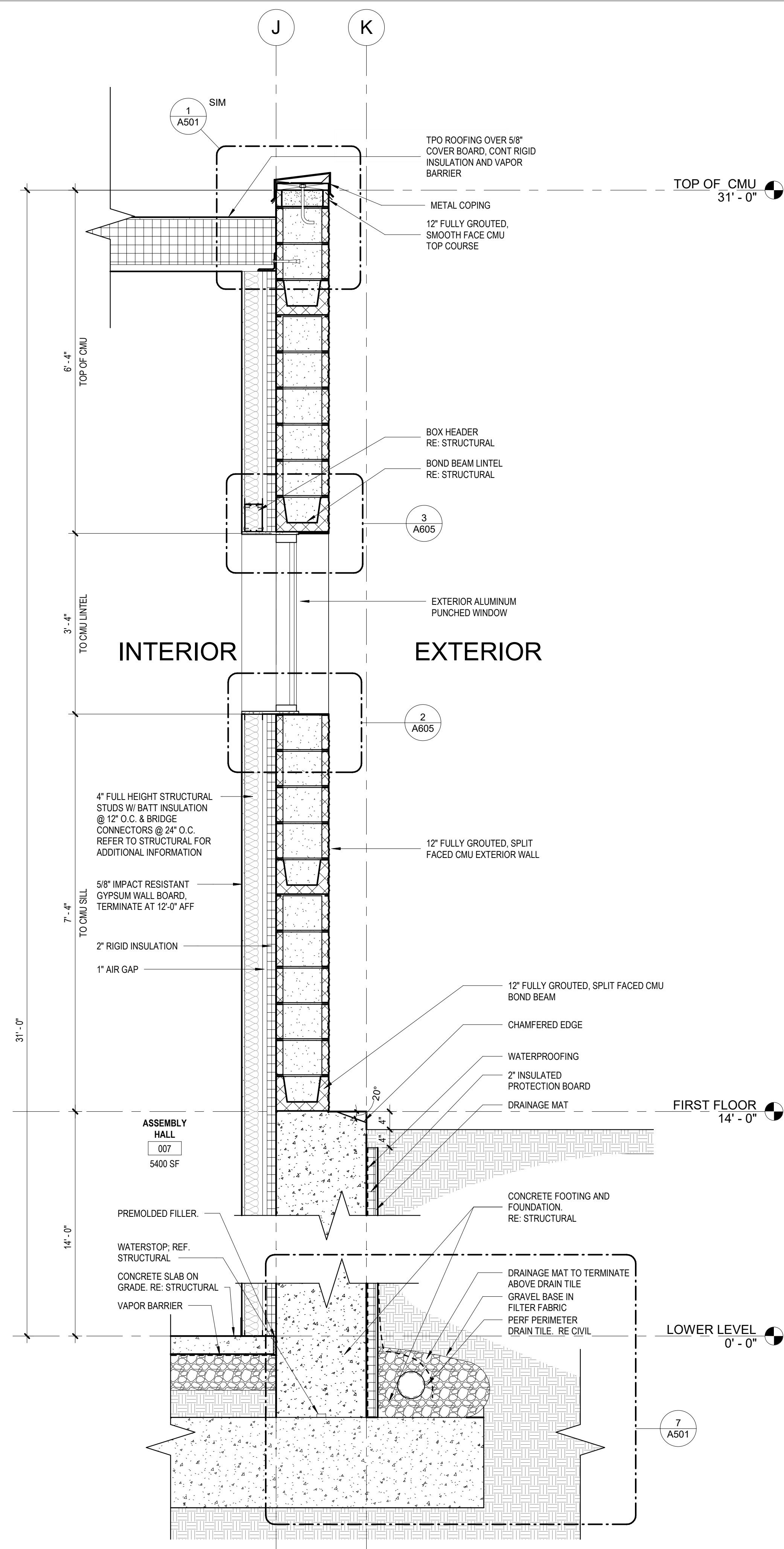
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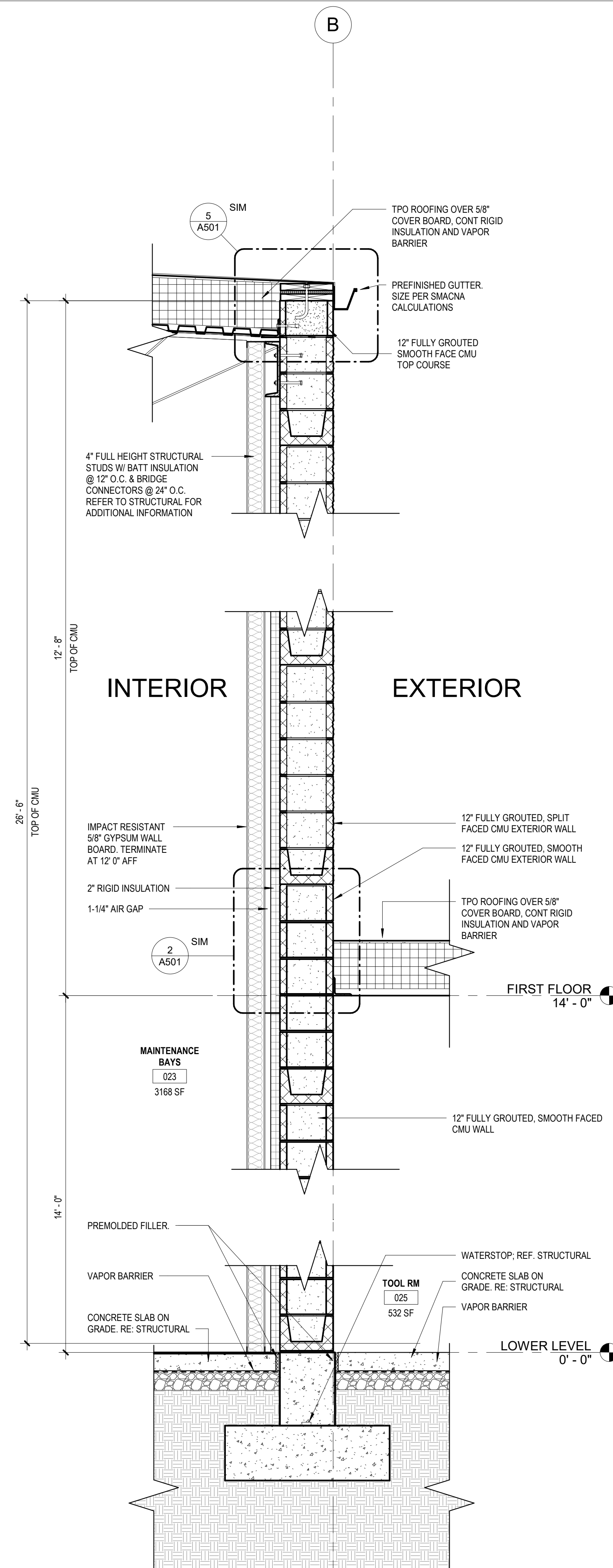
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1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



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



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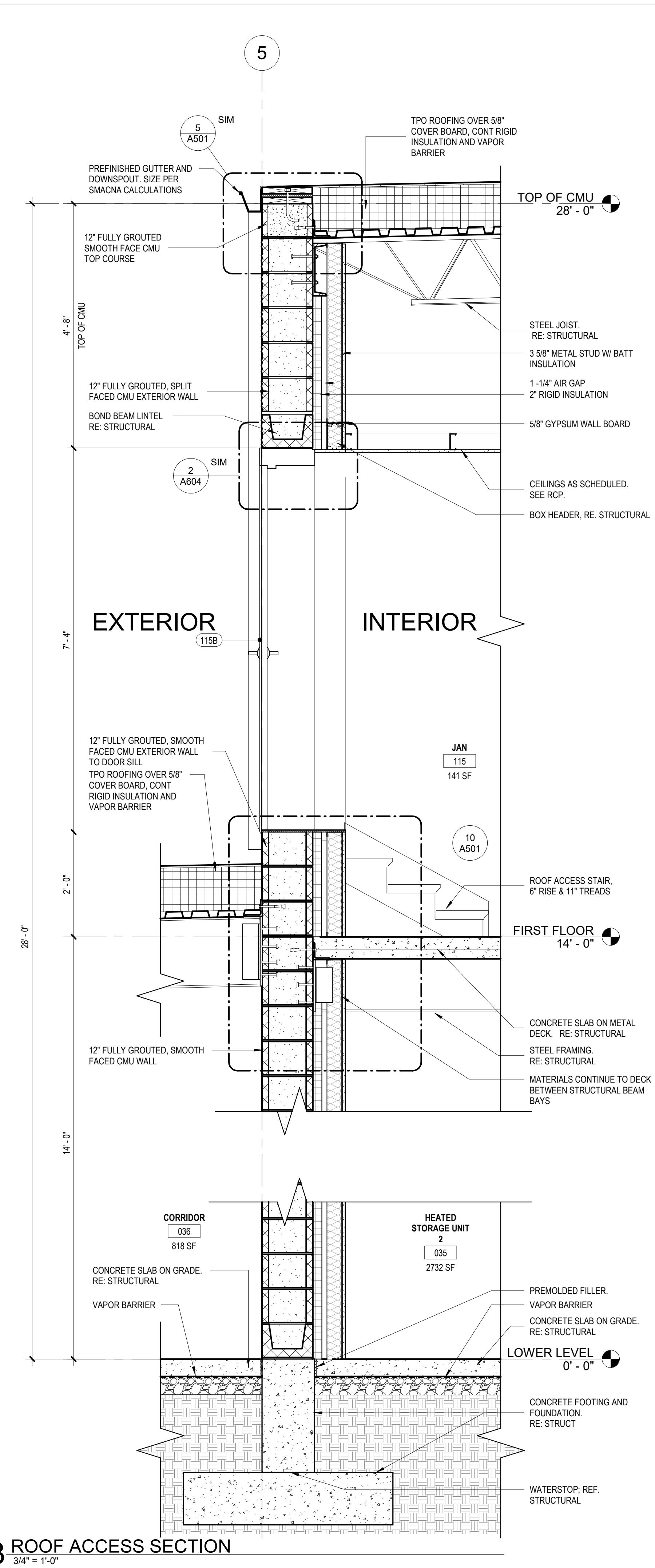
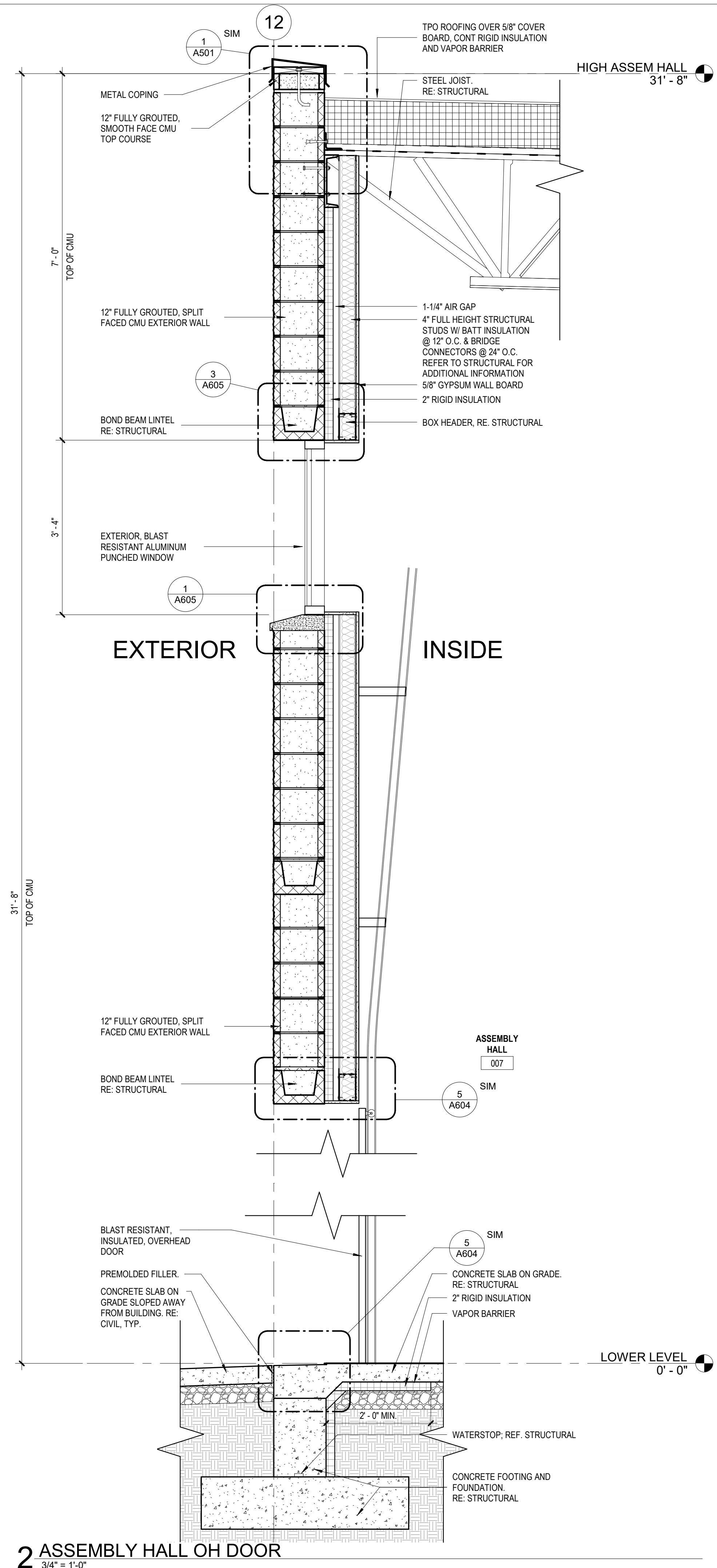
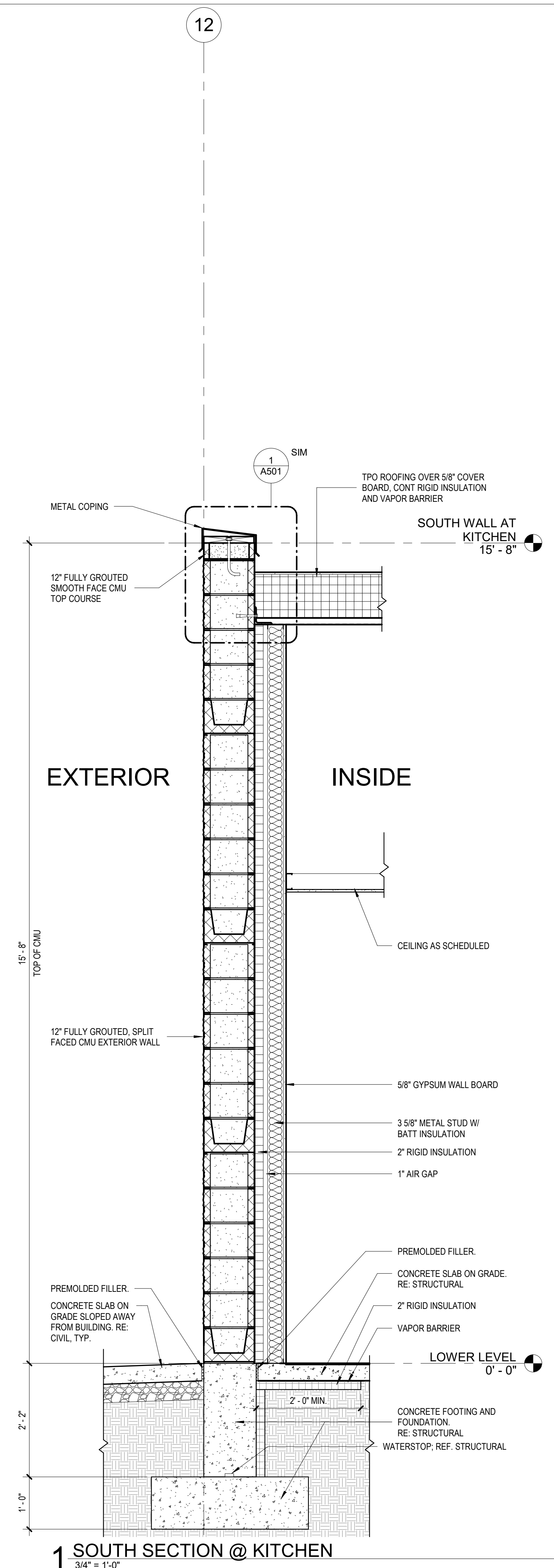
PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

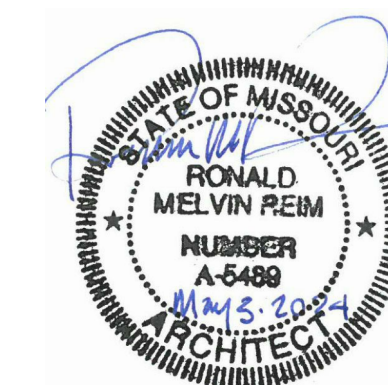
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CAD DWG FILE:
DRAWN BY: JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
A306
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05/03/2024





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NGB # PN290179
SITE # 6322
FACILITY # 8136322001

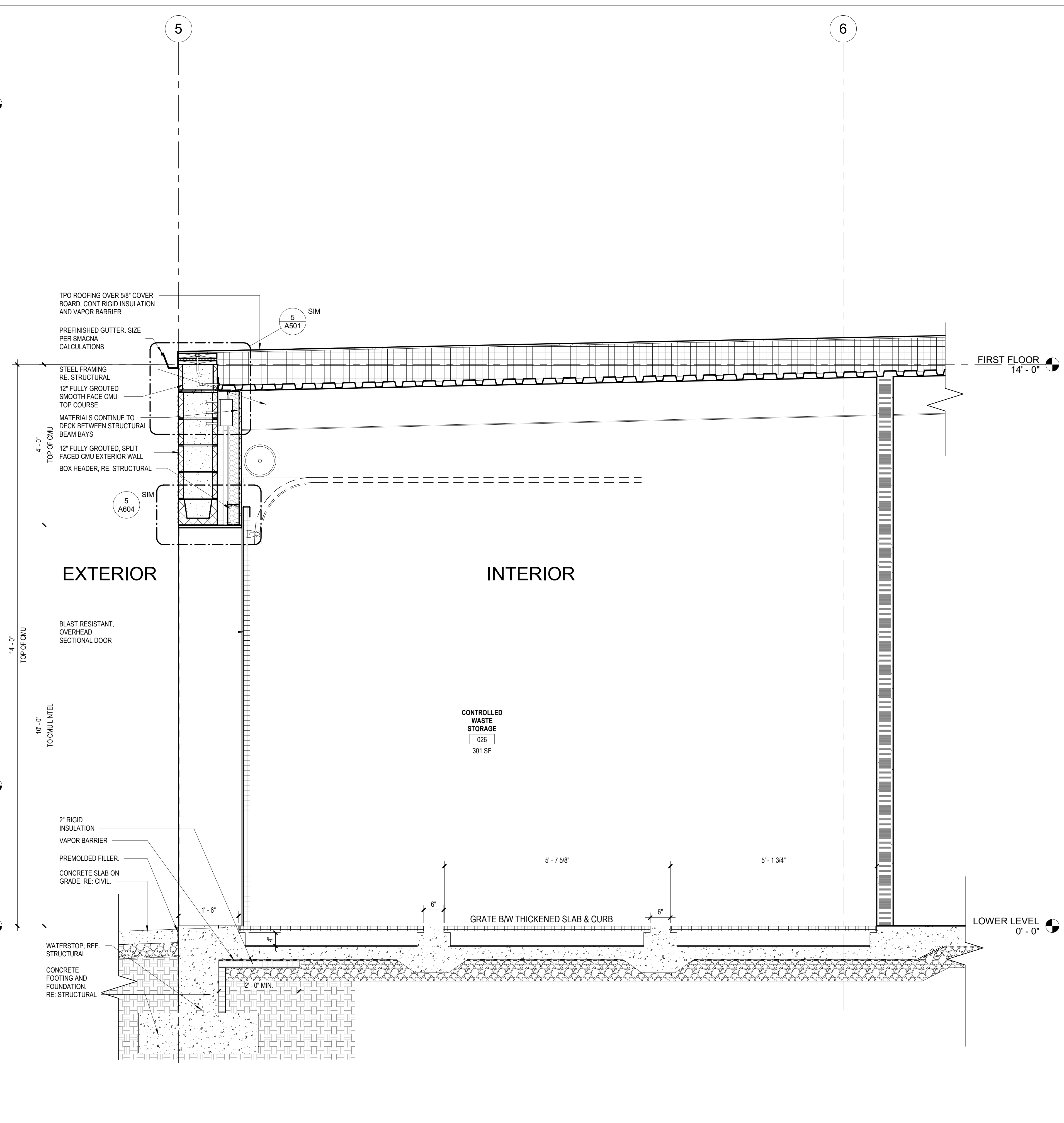
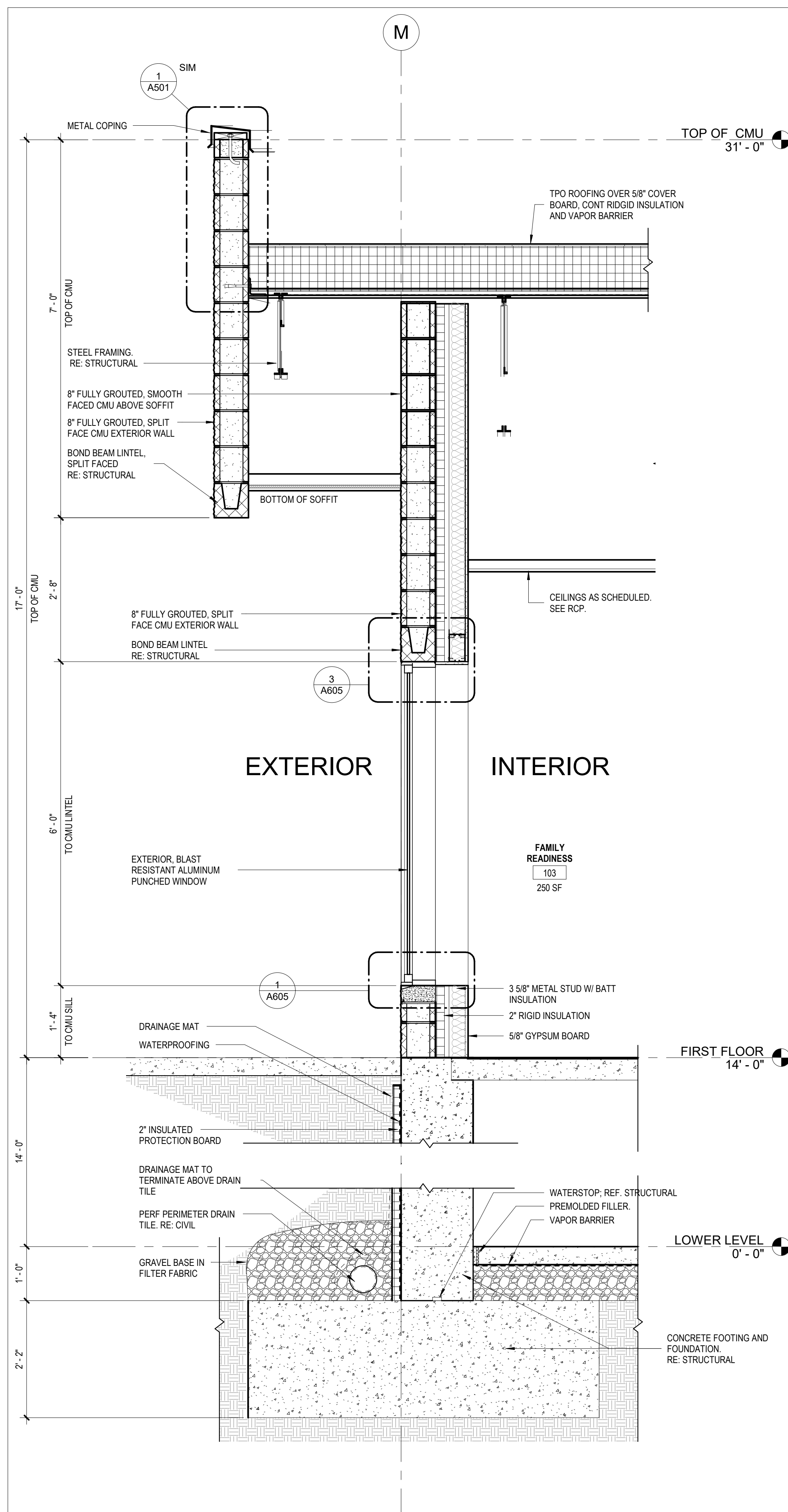
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REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE:
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CHECKED BY: JBS
DESIGNED BY: OCULUS
SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:

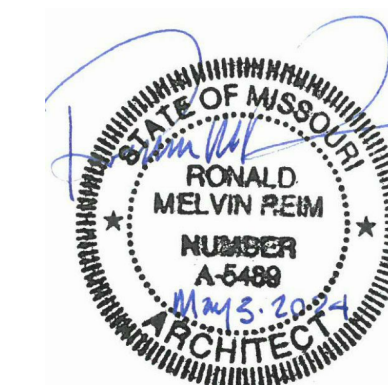
A307

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1 FAMILY READINESS WALL SECTION
3/4" = 1'-0"

2 CONTROLLED WASTE OH DOOR
3/4" = 1'-0"



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ISSUE DATE: 05/03/2024

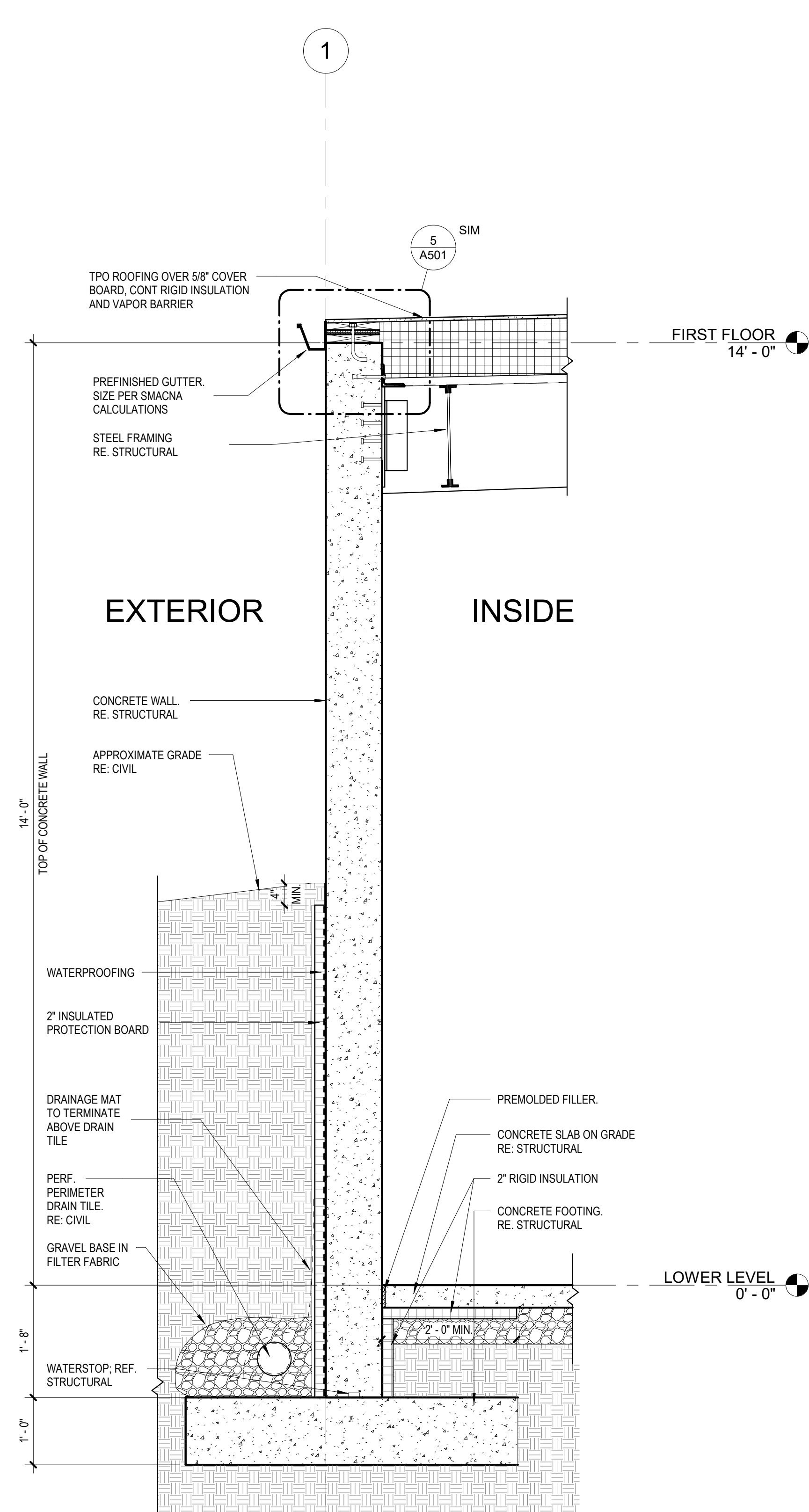
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CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
WALL SECTIONS

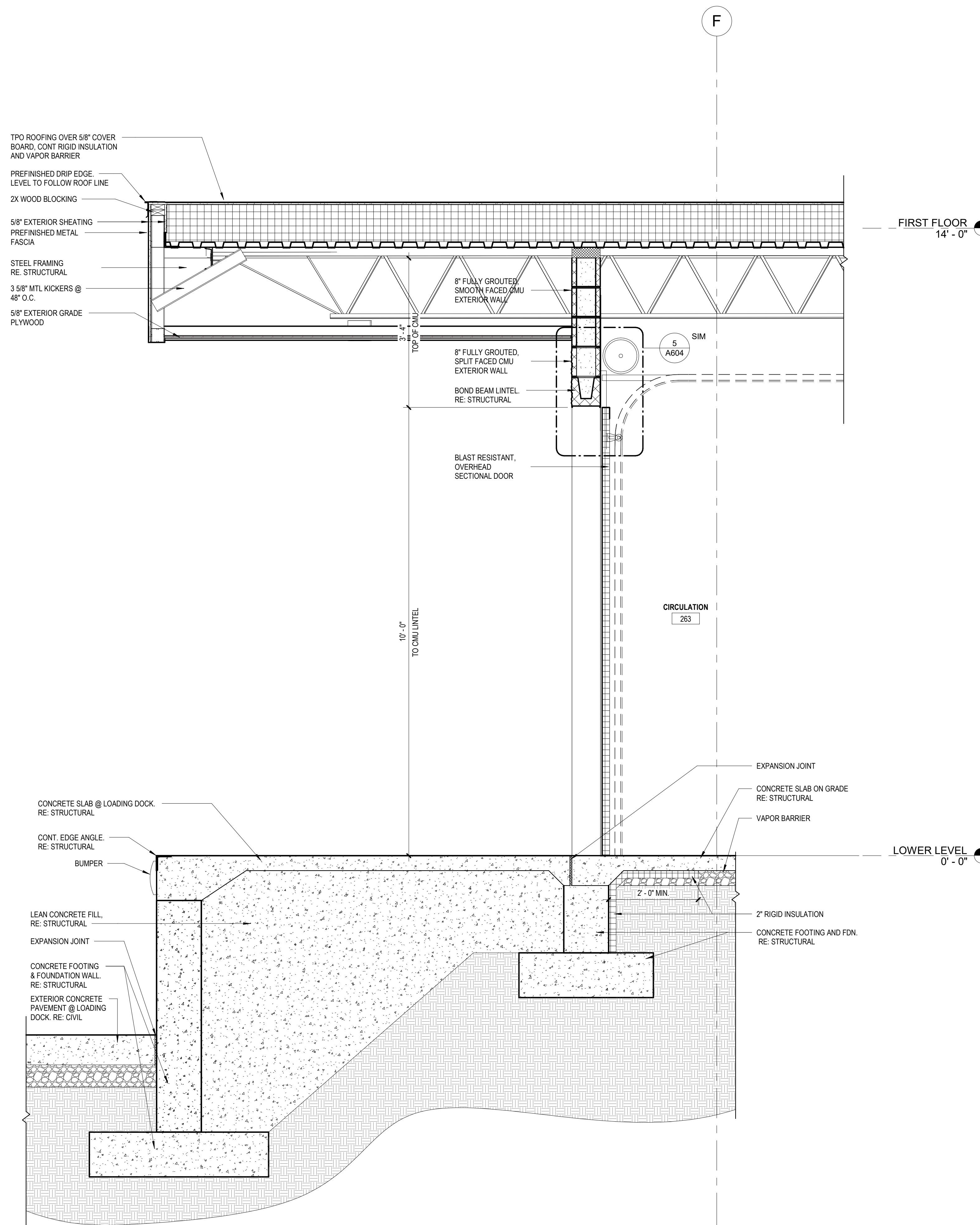
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A308

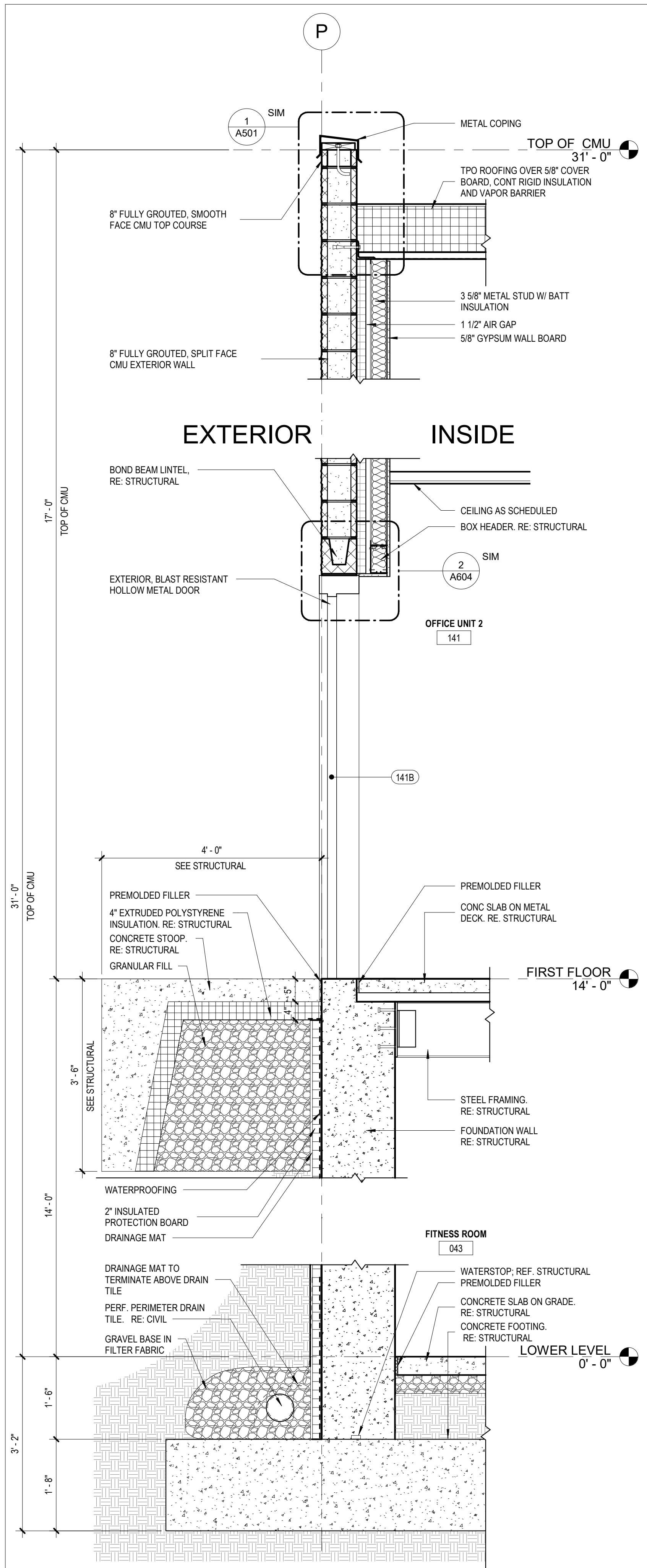
133 OF 272 SHEETS
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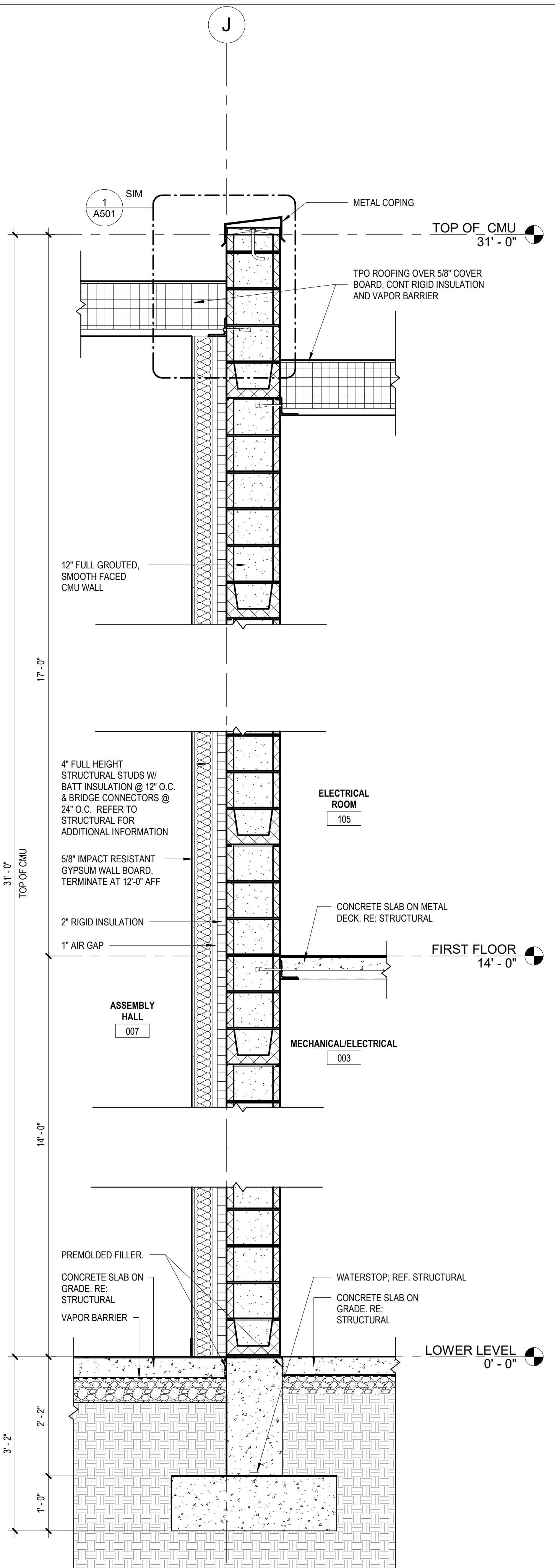
2 SECTION @ CONCRETE WALL
3/4" = 1'-0"



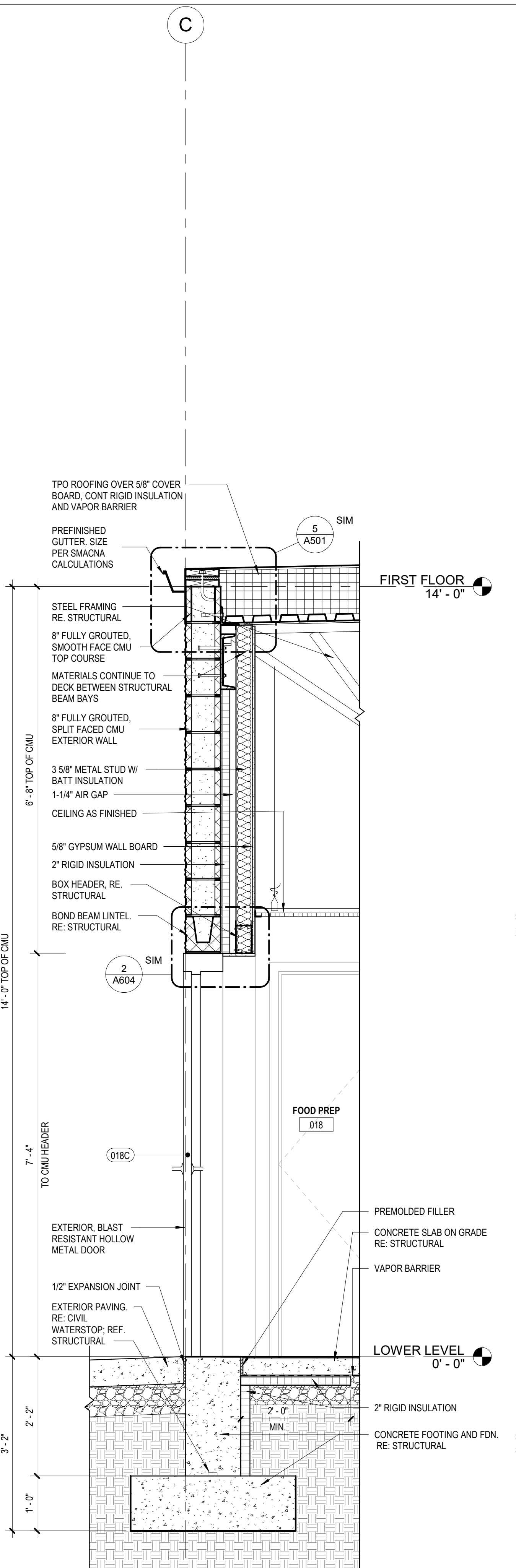
1 LOADING DOCK OVERHANG SECTION
3/4" = 1'-0"



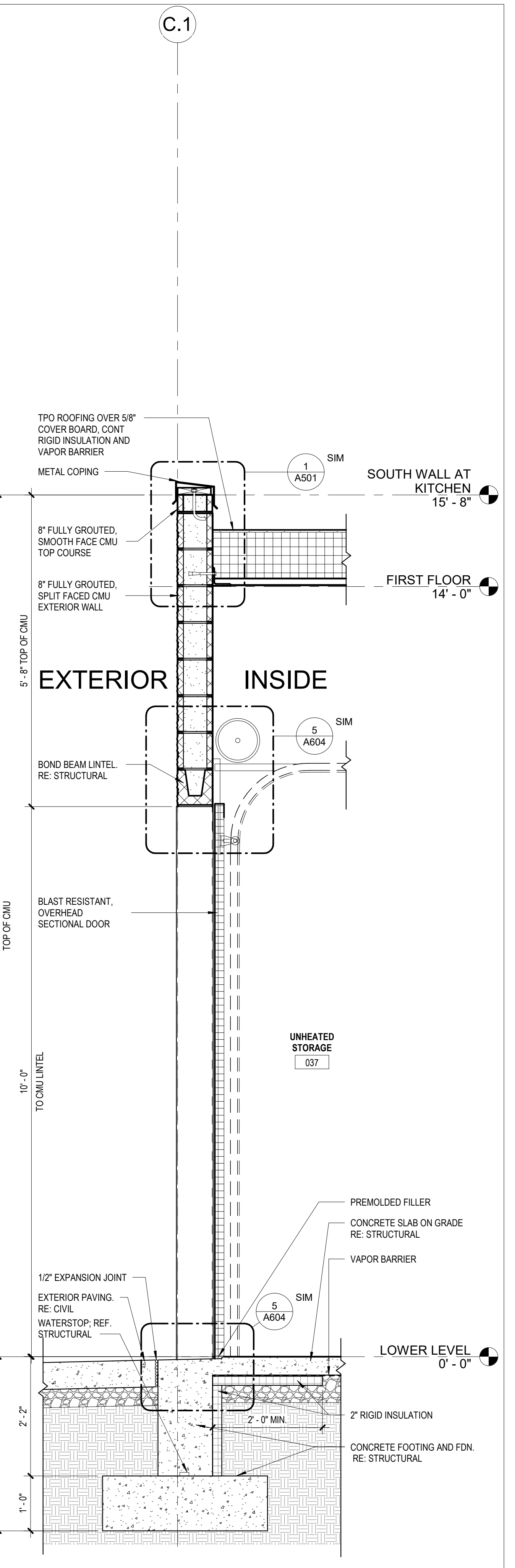
4 SECTION @ EAST OFFICE WALL
3/4" = 1'-0"



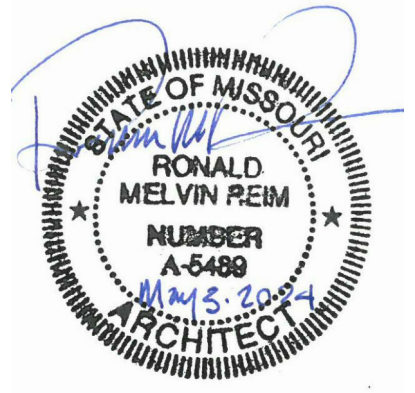
3 SECTION @ EAST ASSEMBLY WALL
3/4" = 1'-0"



2 LOW ROOF AT KITCHEN DOOR
3/4" = 1'-0"



1 OH DOOR @ UNHEADED STORAGE
3/4" = 1'-0"



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FACILITY # 8136322001

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DATE: _____
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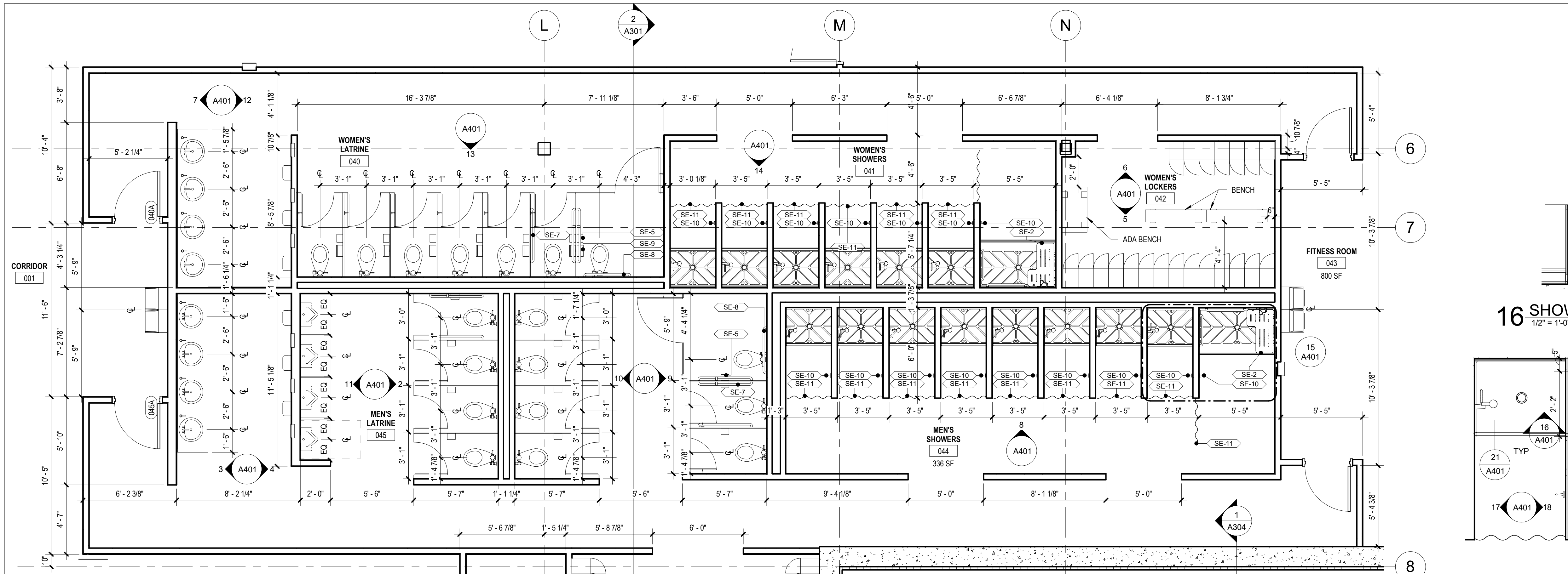
CAD DWG FILE:
DRAWN BY: JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
WALL SECTIONS

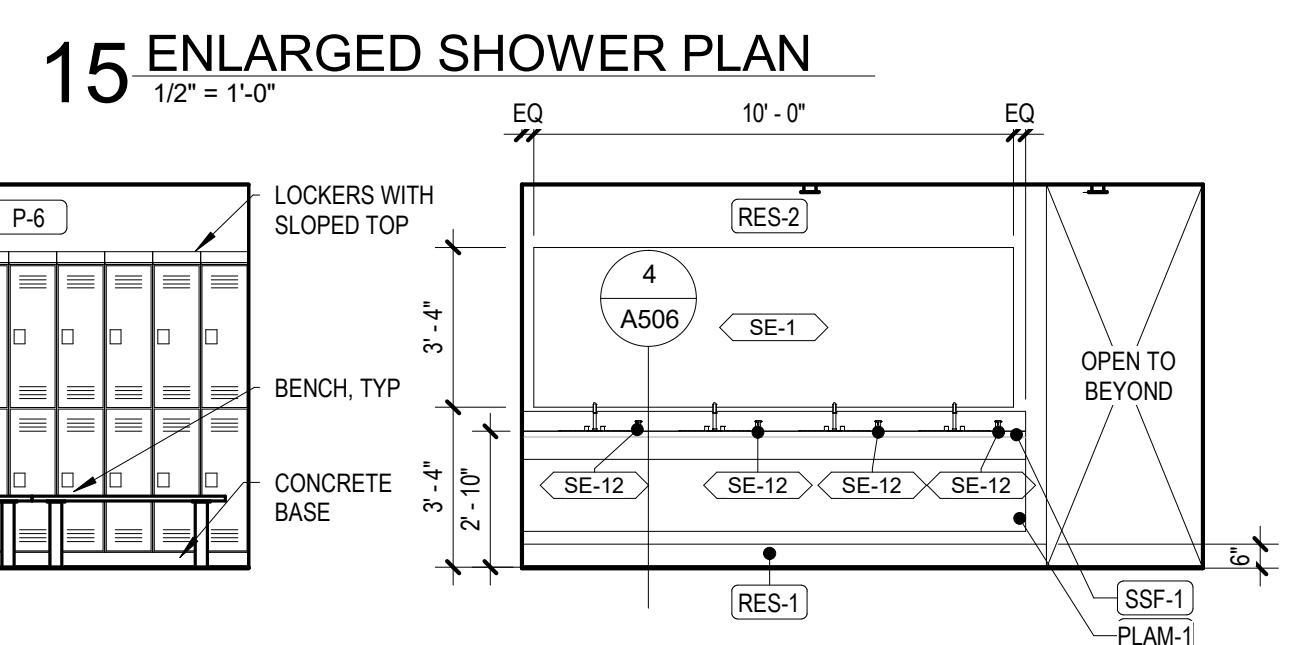
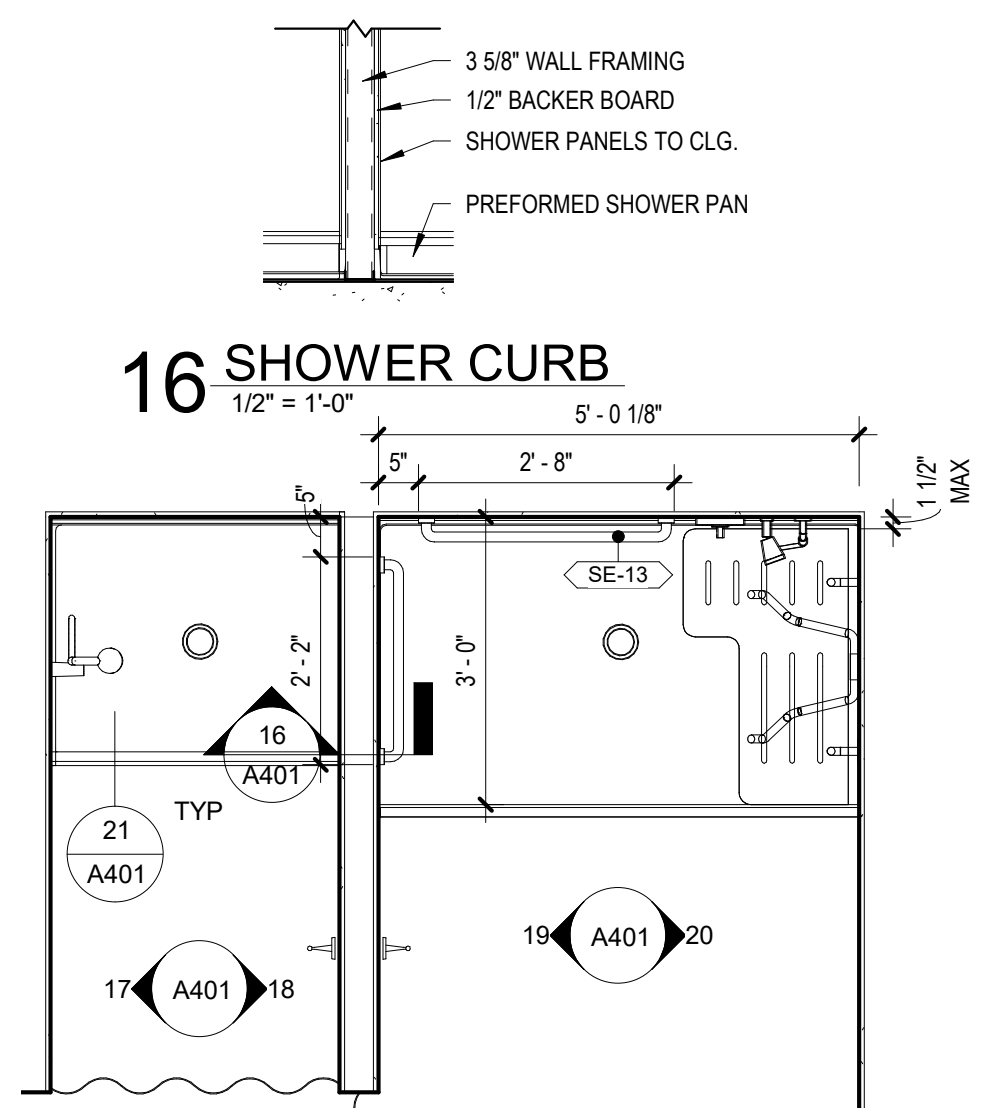
SHEET NUMBER:

A309

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05/03/2024

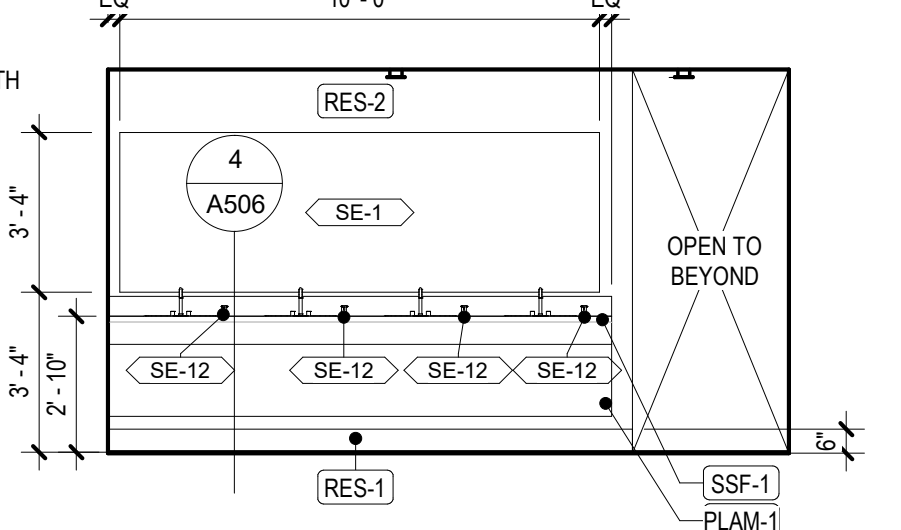
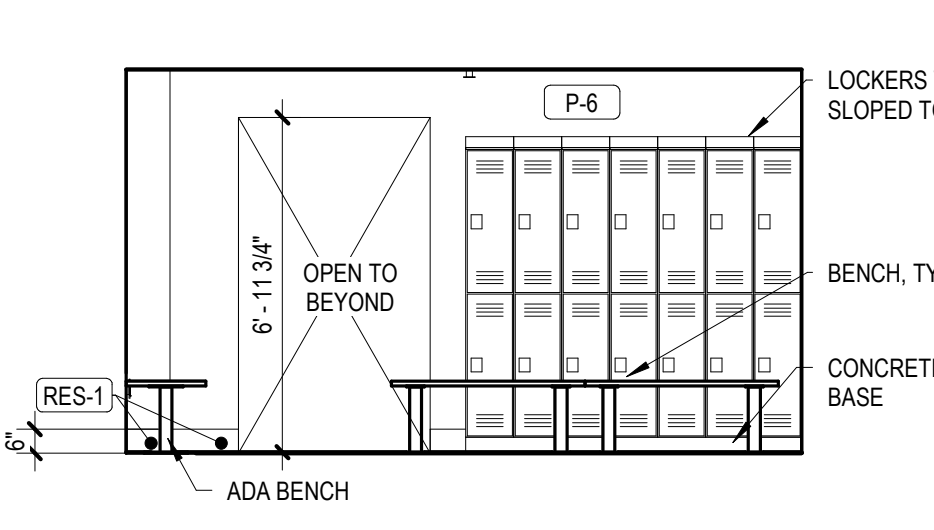
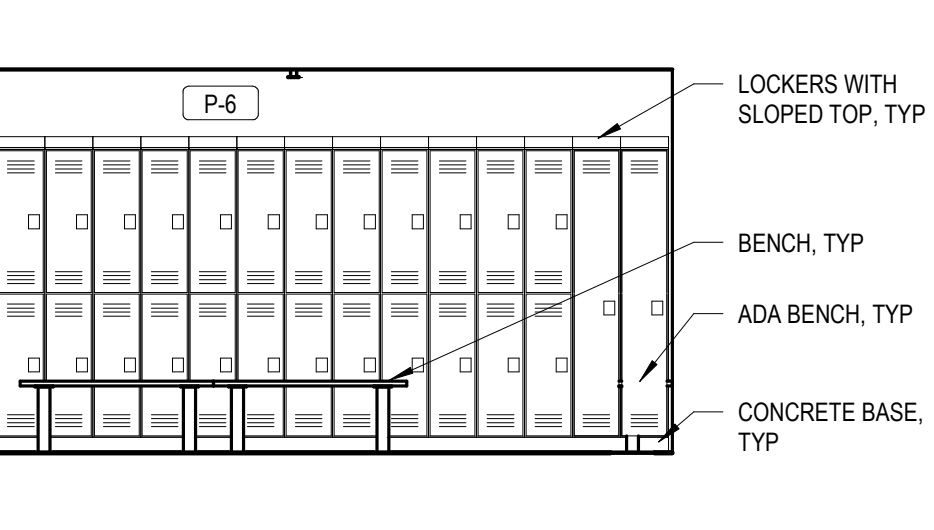
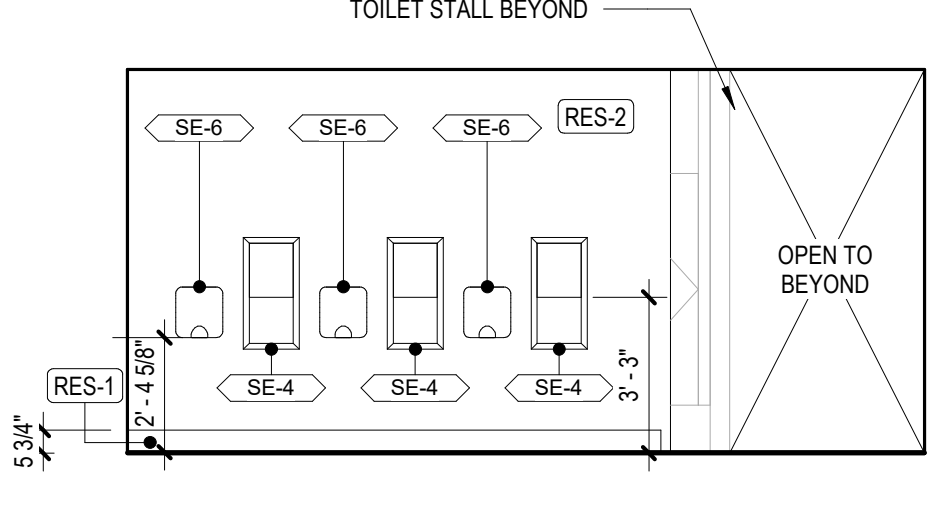
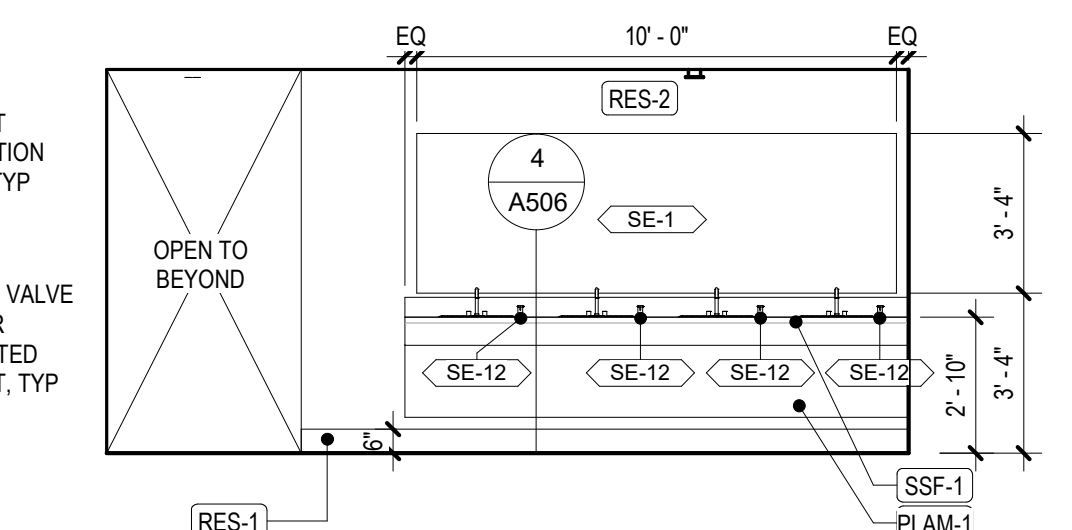
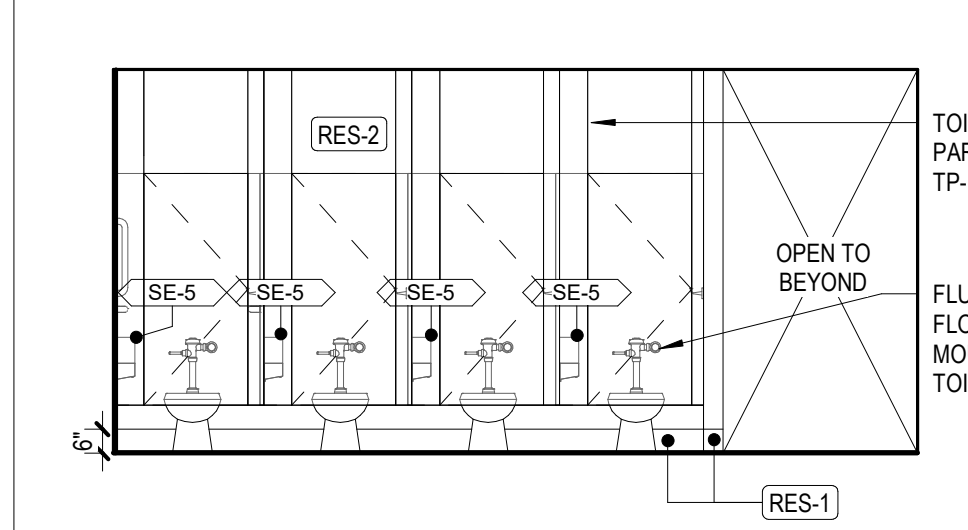


- ### SHEET NOTES
- INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF GYPSUM BOARD AND CMU UNLESS OTHERWISE NOTED. WALLS TO RECEIVE AN ADDITIONAL FINISH (SUCH AS CERAMIC TILE) ARE DIMENSIONED TO THE FACE OF SUBSTRATE.
 - EXTERIOR FINISHES ARE DIMENSIONED TO FACE OF MATERIAL FINISH UNLESS OTHERWISE NOTED.
 - MEP EQUIPMENT IS SHOWN FOR REFERENCE ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
 - REFER TO G006 FOR TYPICAL MOUNTING HEIGHTS.
 - MOLD RESISTANT GYPSUM BOARD TO BE USED IN SHOWER ROOMS.
 - SEE A402 FOR EQUIPMENT SCHEDULE.
 - LOCKING TO BE PROVIDED FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES.



1 ENLARGED LOWER LEVEL BATHROOMS PLAN
1/4" = 1'-0"

15 ENLARGED SHOWER PLAN
1/2" = 1'-0"



2 MEN'S LATRINE WATER CLOSETS
1/4" = 1'-0"

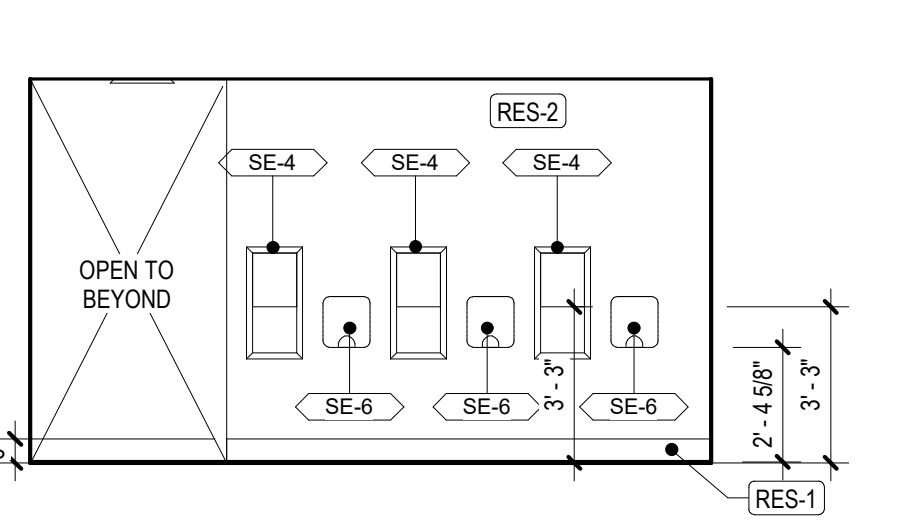
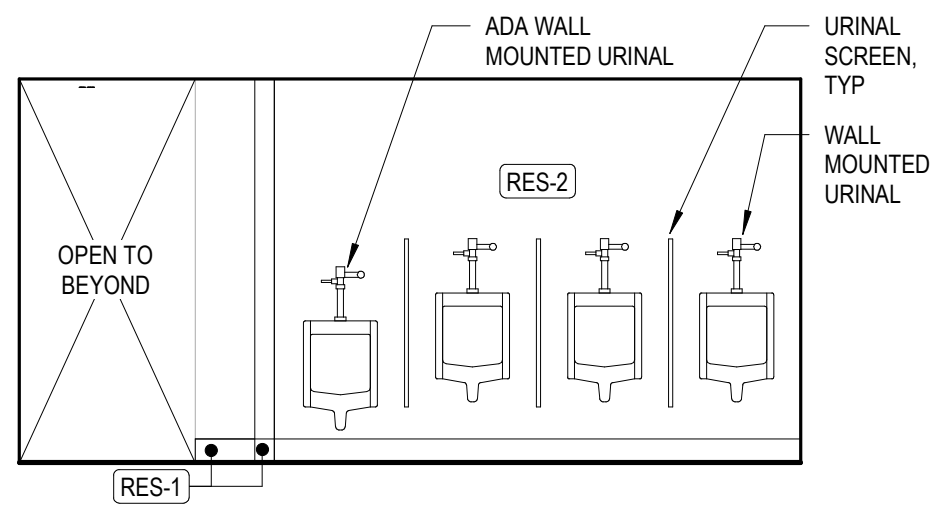
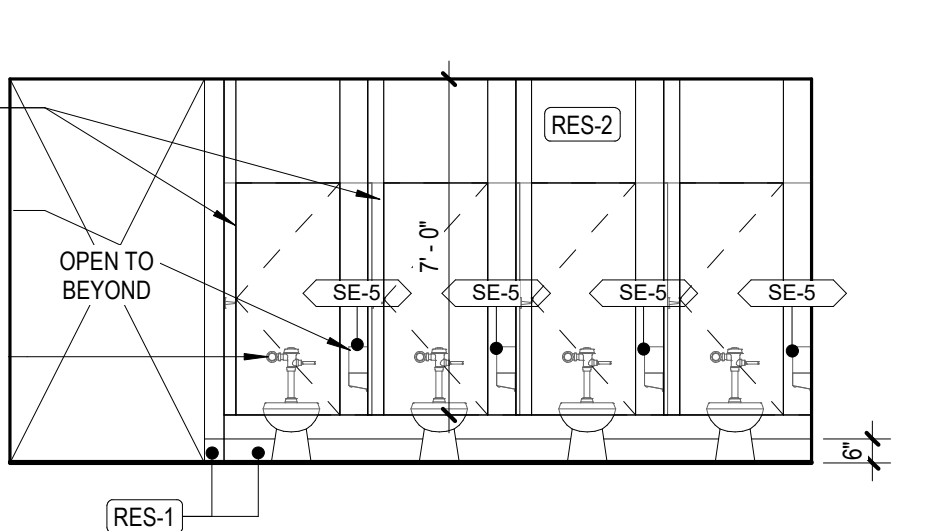
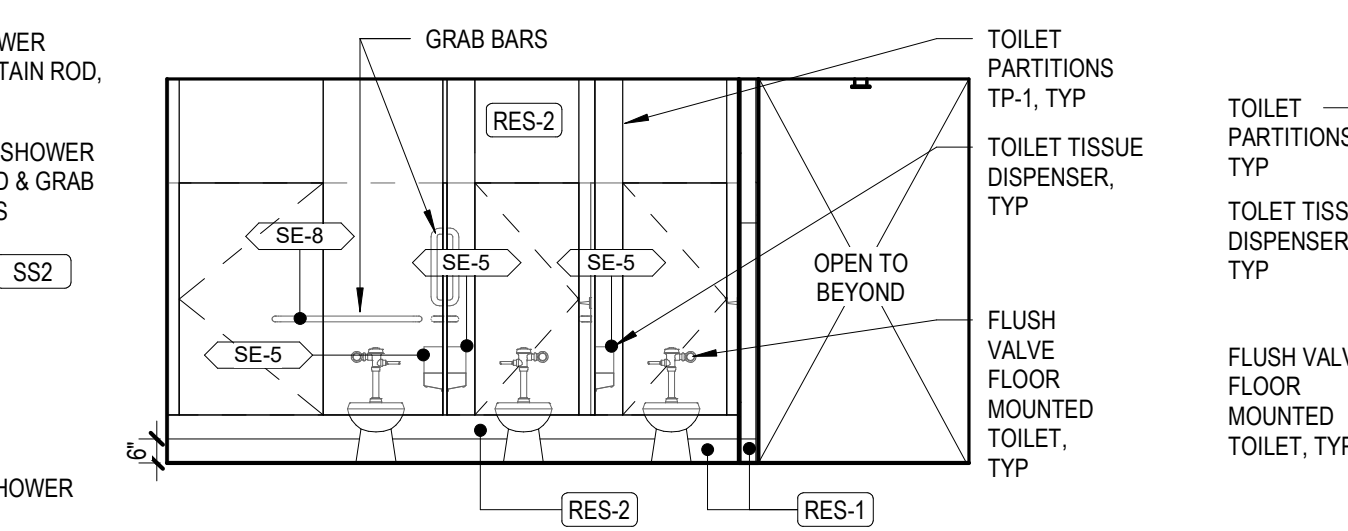
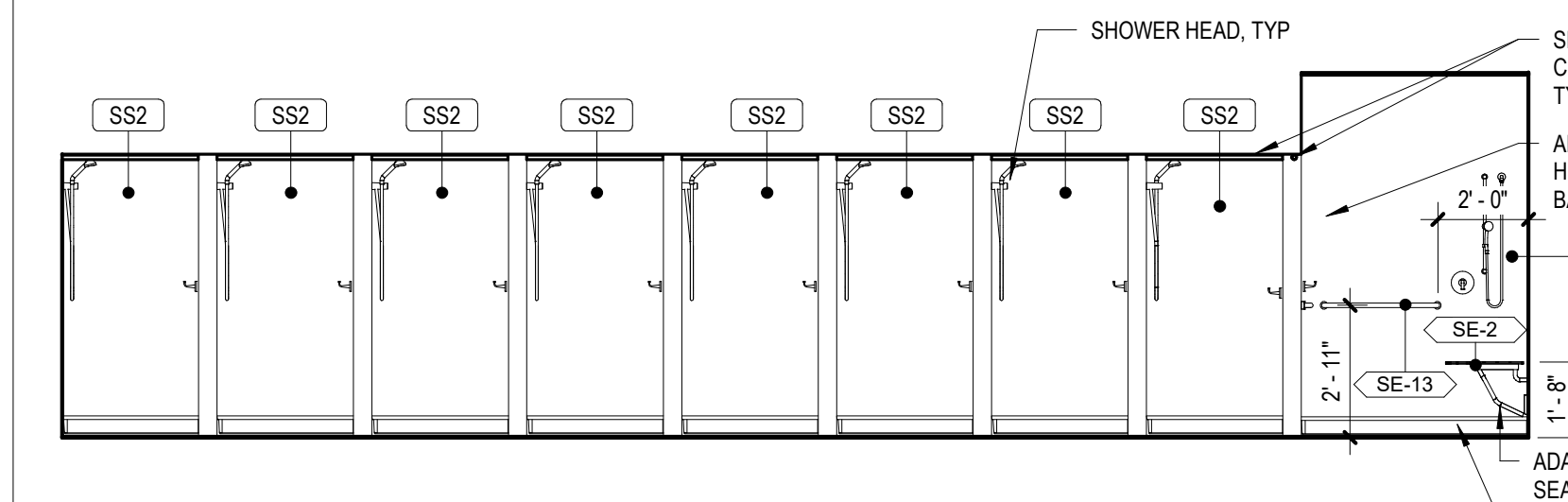
3 MEN'S LATRINE SINK AREA
1/4" = 1'-0"

4 MEN'S LATRINE SINK AREA
1/4" = 1'-0"

5 WOMEN'S LOCKERS SOUTH
1/4" = 1'-0"

6 WOMEN'S LOCKERS NORTH
1/4" = 1'-0"

7 WOMEN'S LATRINE SINK AREA
1/4" = 1'-0"



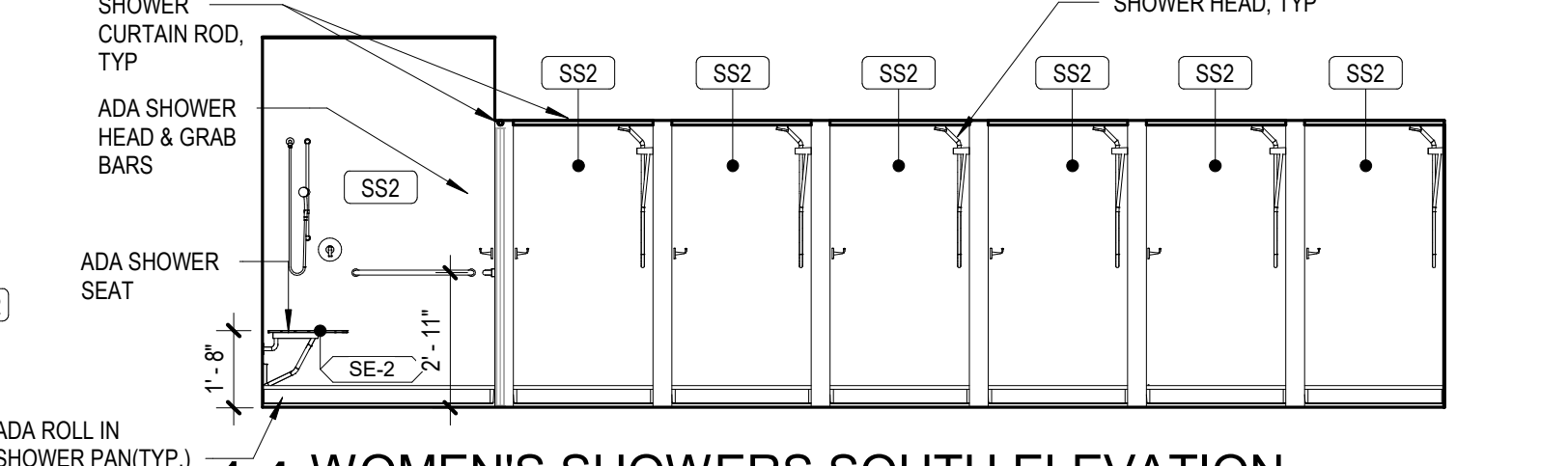
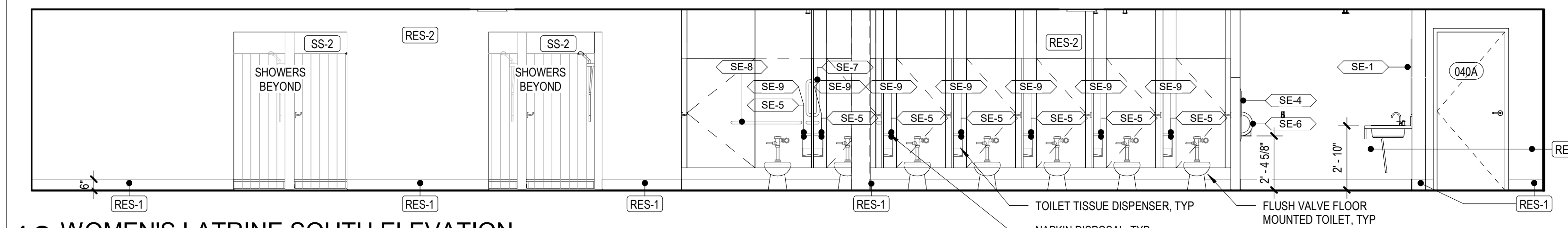
8 MEN'S SHOWERS NORTH ELEVATION
1/4" = 1'-0"

9 MEN'S LATRINE WATER CLOSETS
1/4" = 1'-0"

10 MEN'S LATRINE WATER CLOSETS
1/4" = 1'-0"

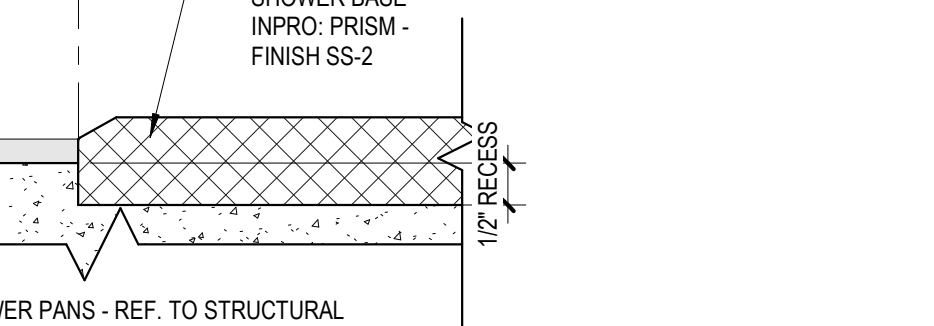
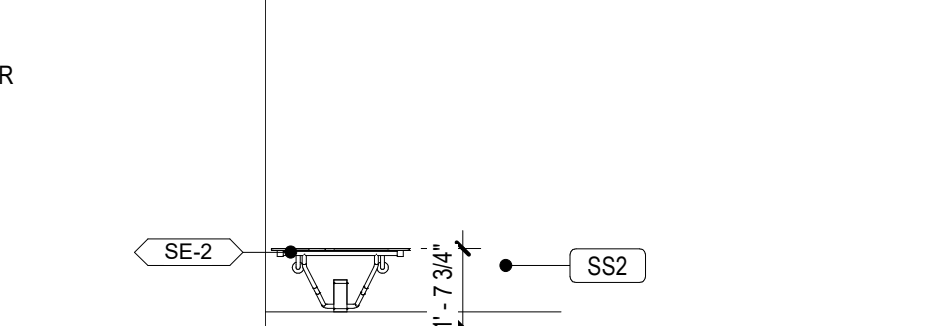
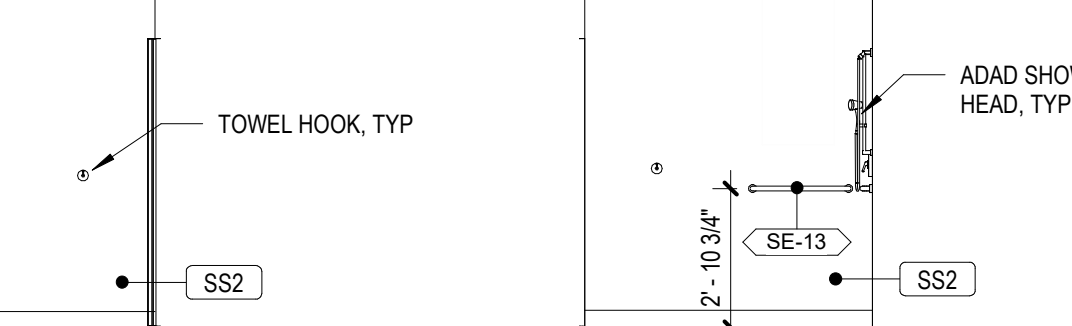
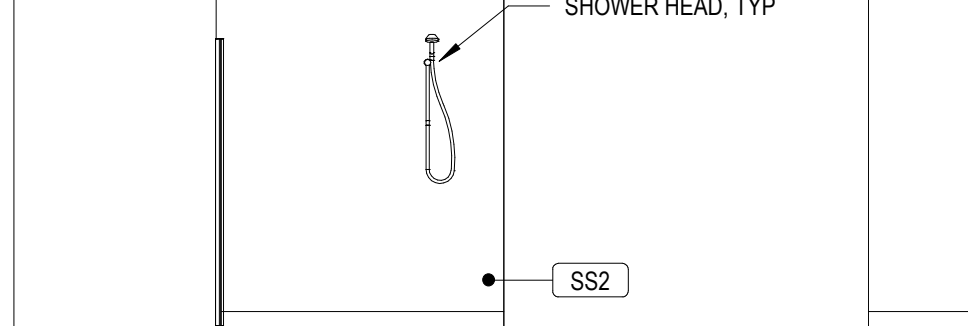
11 MEN'S LATRINE URINALS
1/4" = 1'-0"

12 WOMEN'S LATRINE SINK AREA
1/4" = 1'-0"



13 WOMEN'S LATRINE SOUTH ELEVATION
1/4" = 1'-0"

14 WOMEN'S SHOWERS SOUTH ELEVATION
1/4" = 1'-0"



17 TYP. SHOWER FRONT
1/4" = 1'-0"

18 TYP. SHOWER BACK
1/4" = 1'-0"

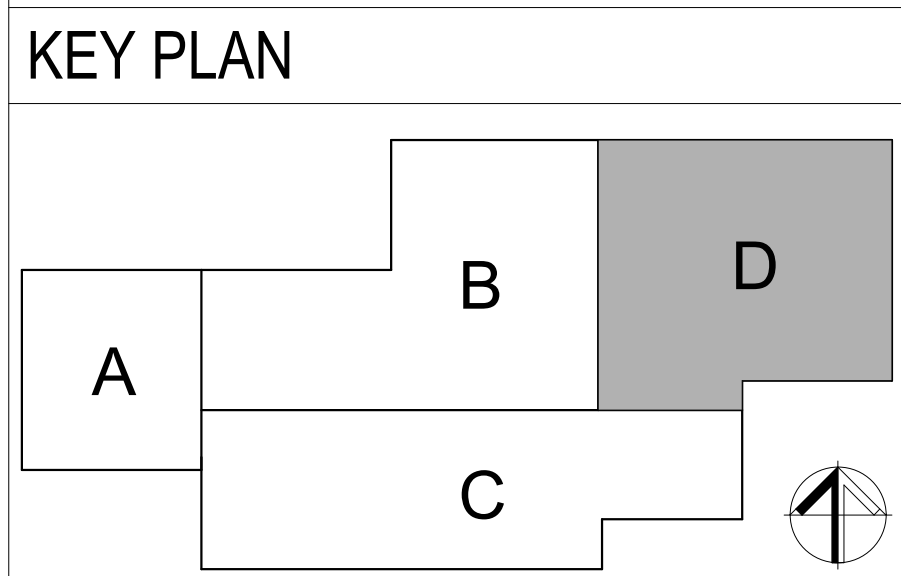
19 TYP. ADA SHOWER FRONT
1/4" = 1'-0"

20 TYP. ADA SHOWER BACK
1/4" = 1'-0"

21 SHOWER PAN TO RES
6" = 1'-0"

LEGEND

NAME	ROOM NAME
1A34	ROOM NUMBER
50 SF	AREA (SQ. FT.)
[Symbol]	ONE HOUR FIRE BARRIER CONSTRUCTION
[Symbol]	TWO HOUR FIRE BARRIER CONSTRUCTION



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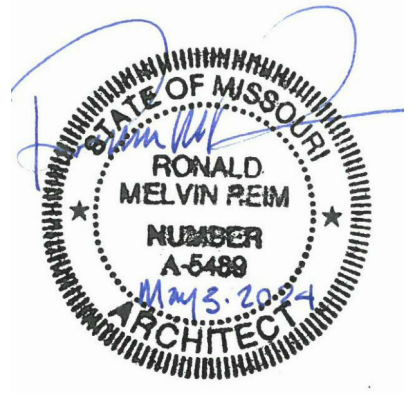
PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: HR/EH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
ENLARGED LOWER
LEVEL
LATRINES/SHOWER
& LOCKER ROOMS
SHEET NUMBER:

A401
135 OF 272 SHEETS
05/03/2024



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CAD DWG FILE: _____
DRAWN BY: HR/EH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
ENLARGED FIRST
FLOOR RESTROOM
AND BREAK ROOM

SHEET NUMBER:

A402

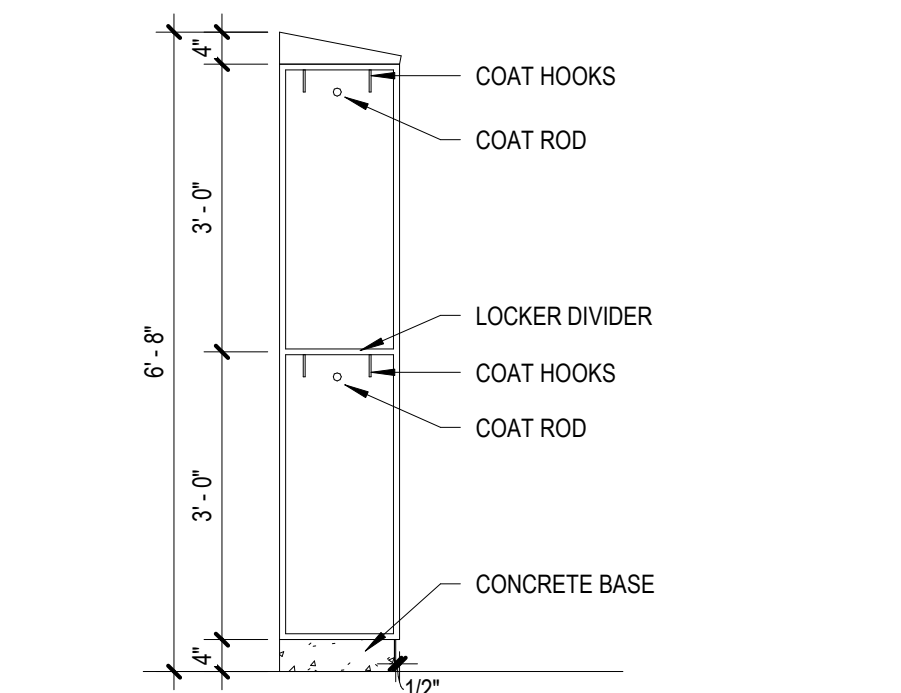
136 OF 272 SHEETS
05/03/2024

SHEET NOTES

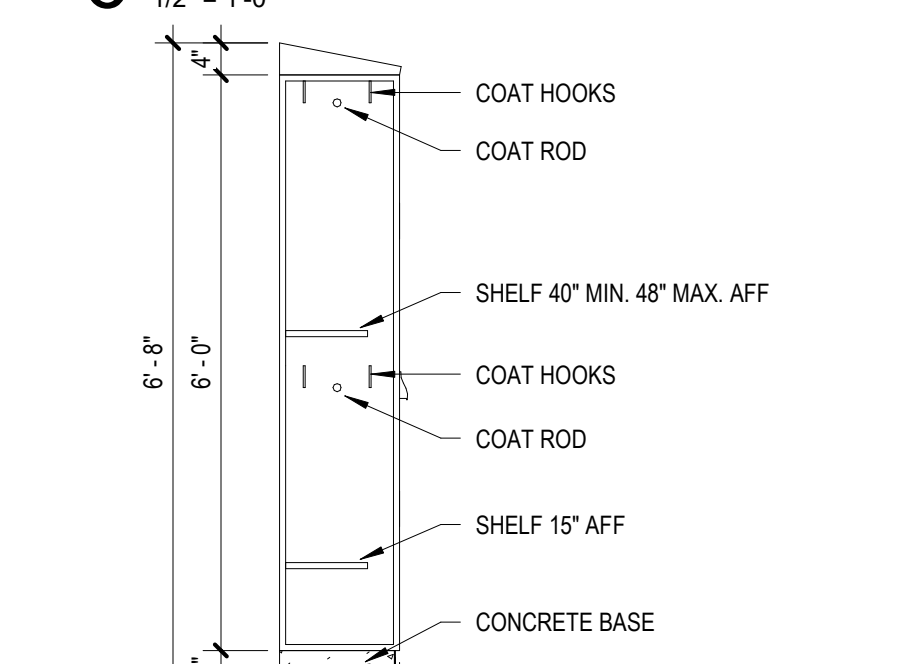
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KEYNOTES

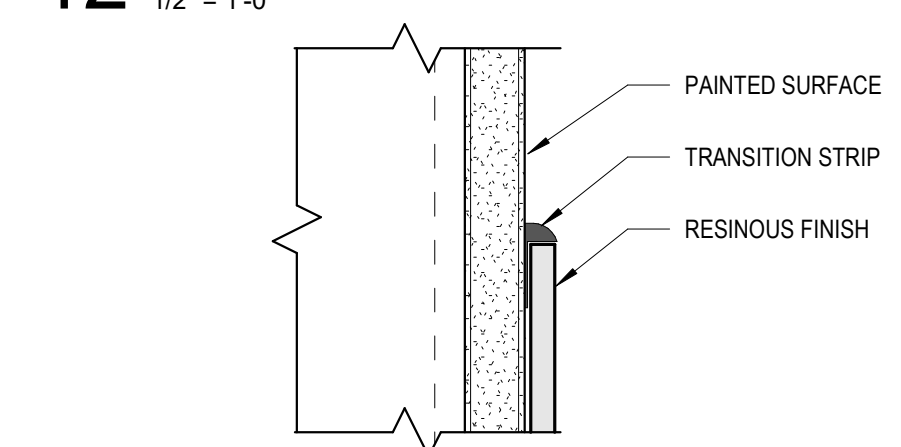
#	NOTE
43	HIGHLOW ADA WALL MOUNTED DRINKING FOUNTAIN, REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION



6 LOCKER DETAIL
1/2" = 1'-0"



12 ADA LOCKER DETAIL
1/2" = 1'-0"

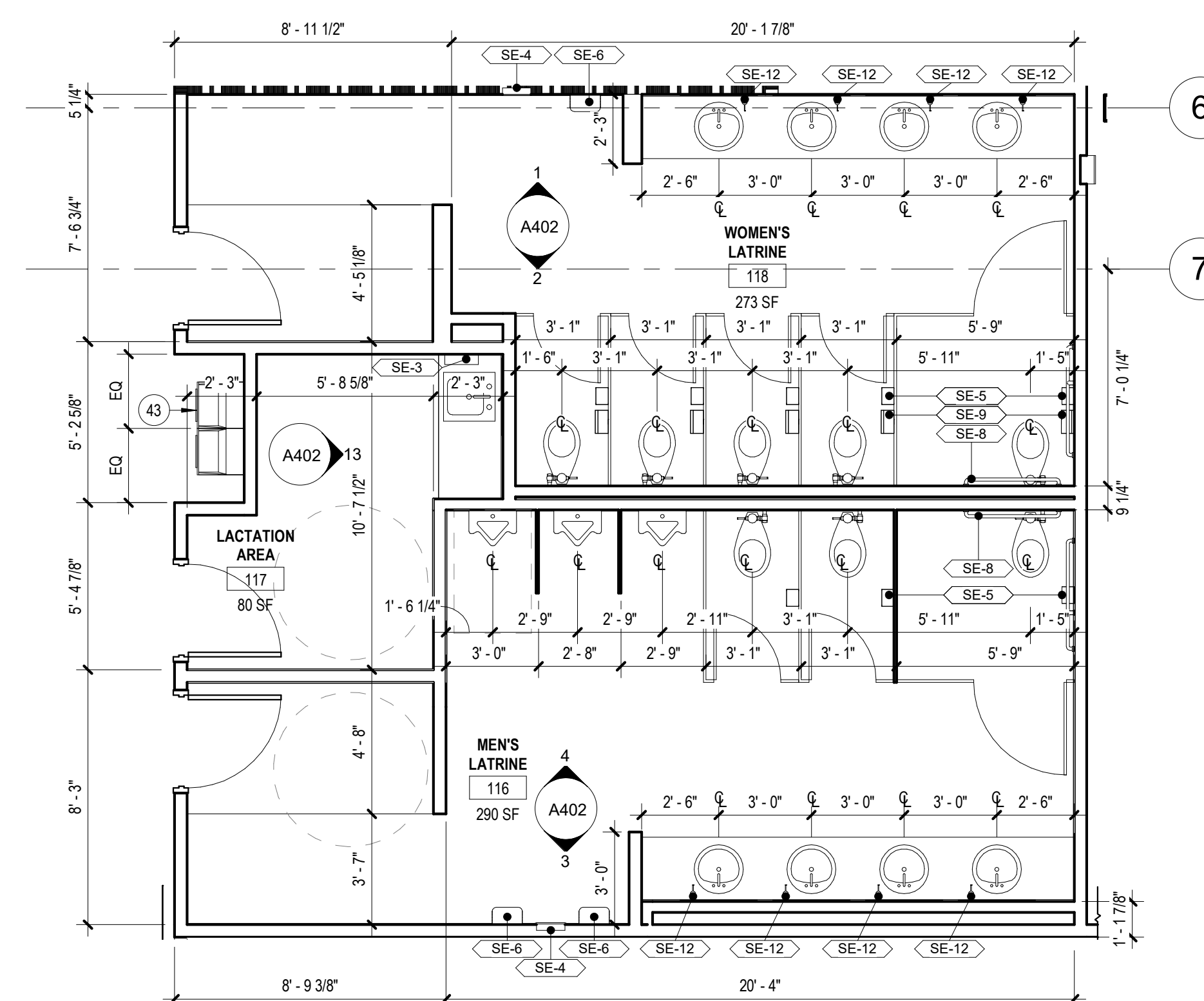
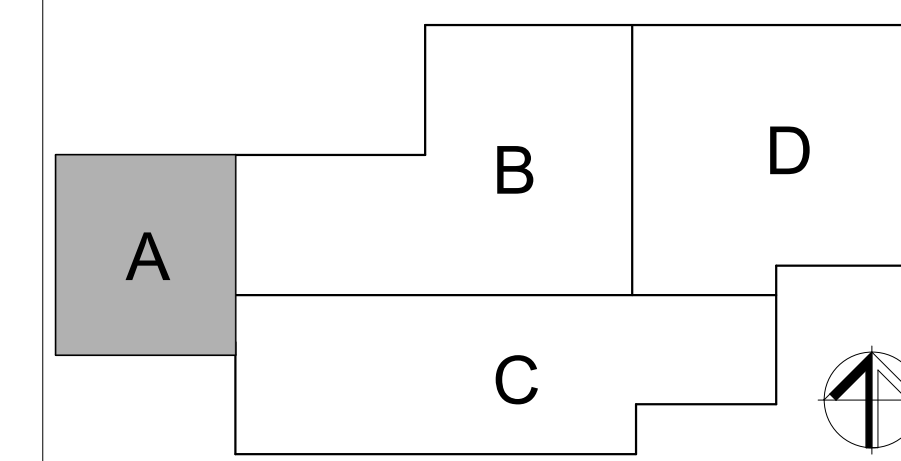


10 TRANSITION AT RES TO PAINT
6" = 1'-0"

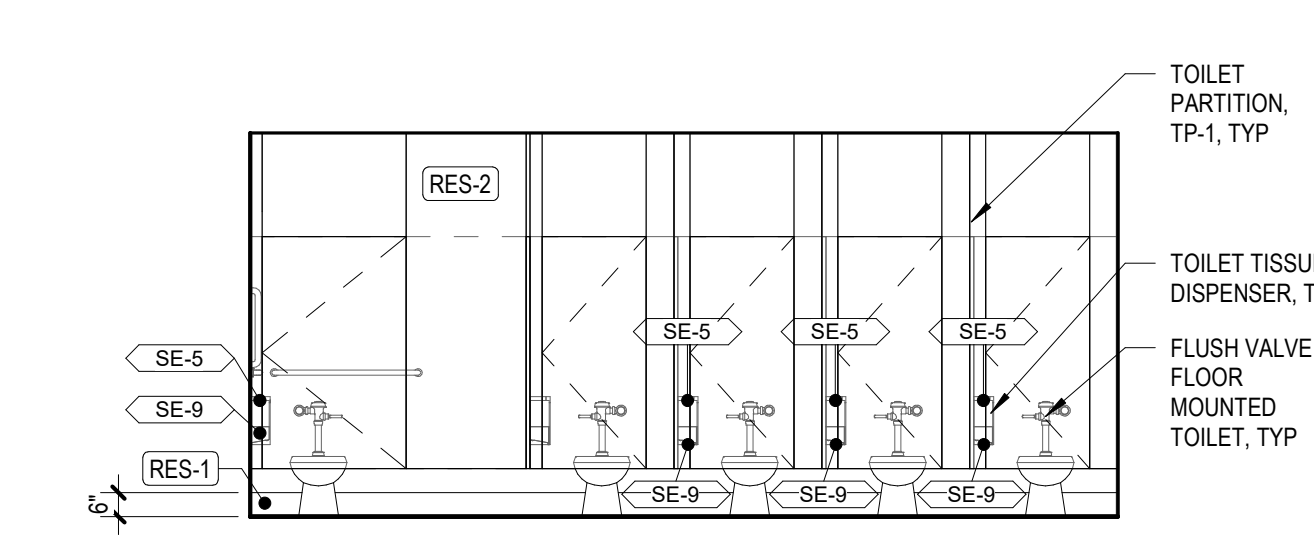
LEGEND

- NAME → ROOM NAME
- 1A34 → ROOM NUMBER
- 50 SF → AREA (SQ. FT.)
- [Pattern] → ONE HOUR FIRE BARRIER CONSTRUCTION
- [Pattern] → TWO HOUR FIRE BARRIER CONSTRUCTION

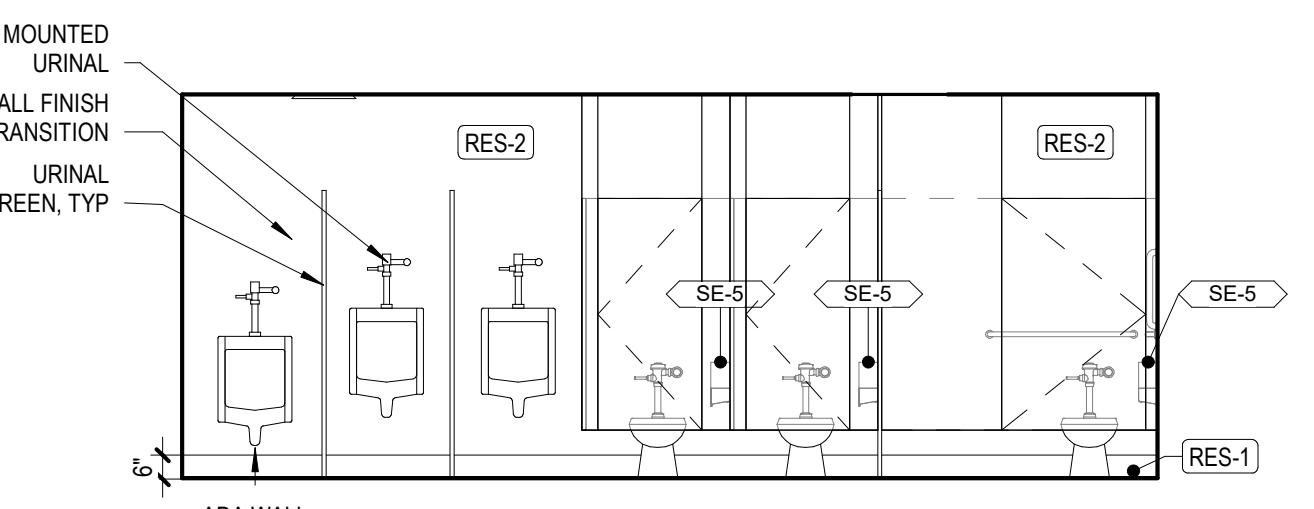
KEY PLAN



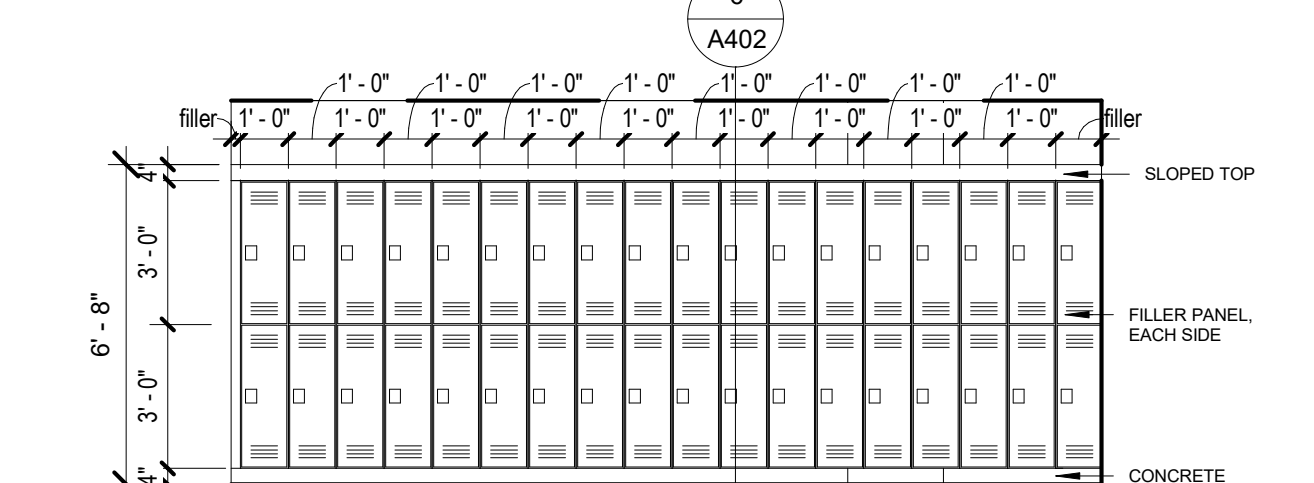
5 ENLARGED FIRST FLOOR RESTROOMS
1/4" = 1'-0"



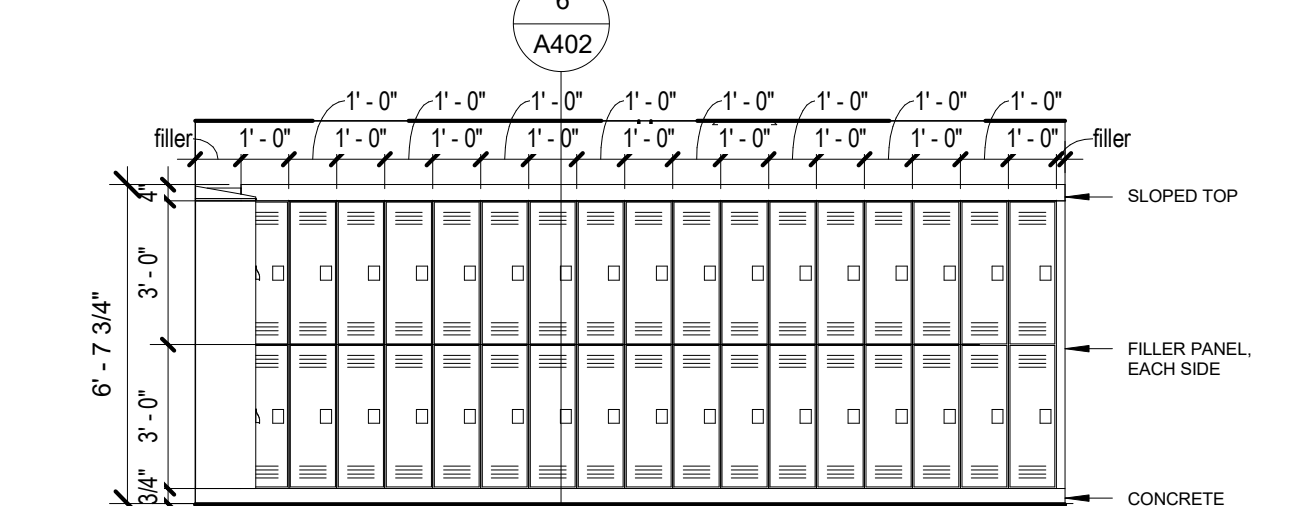
2 WOMEN'S LATRINE - SOUTH ELEVATION
1/4" = 1'-0"



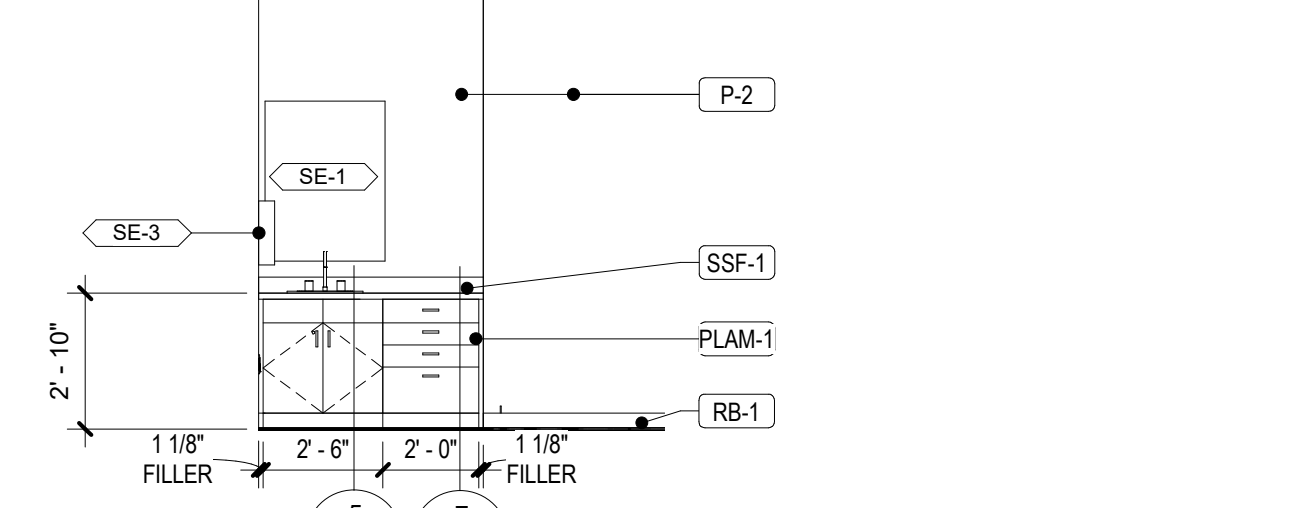
4 MEN'S LATRINE - NORTH ELEVATION
1/4" = 1'-0"



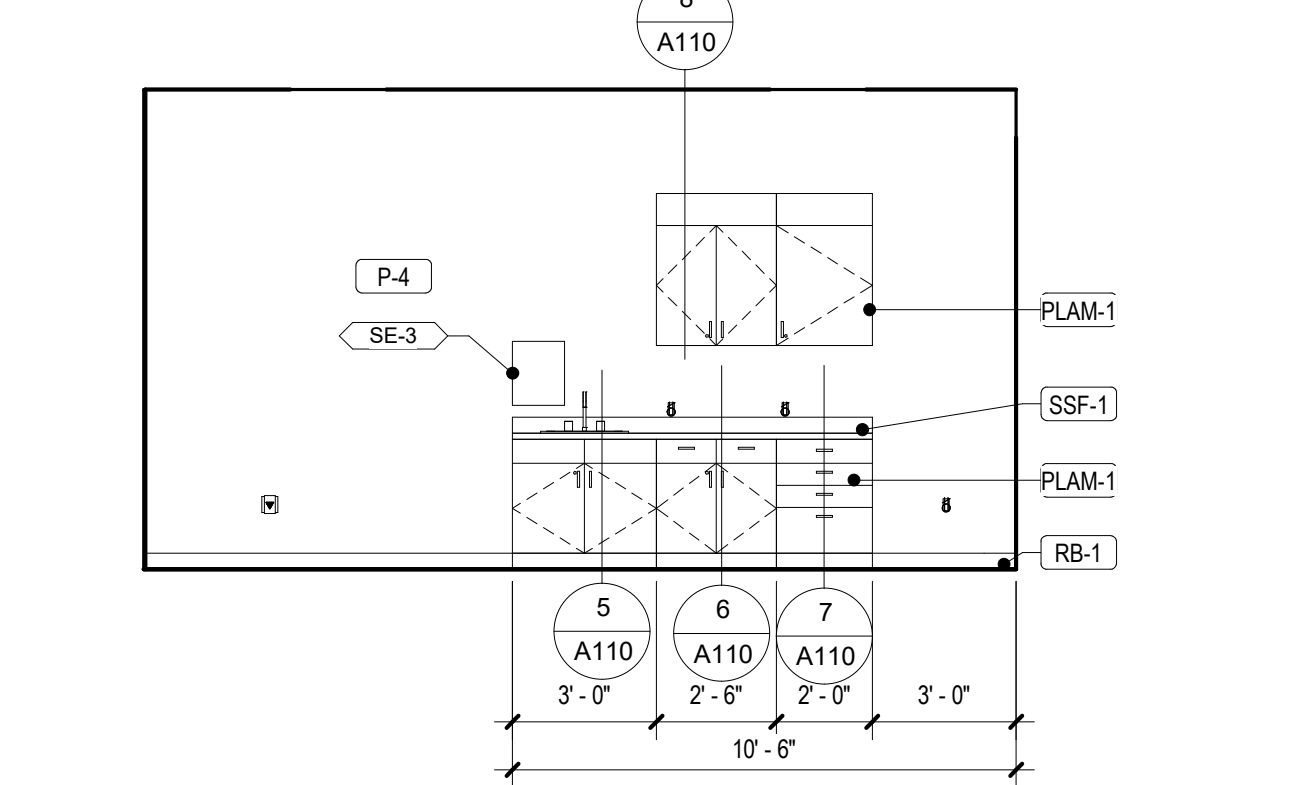
8 MEN'S LOCKERS - EAST ELEVATION
1/4" = 1'-0"



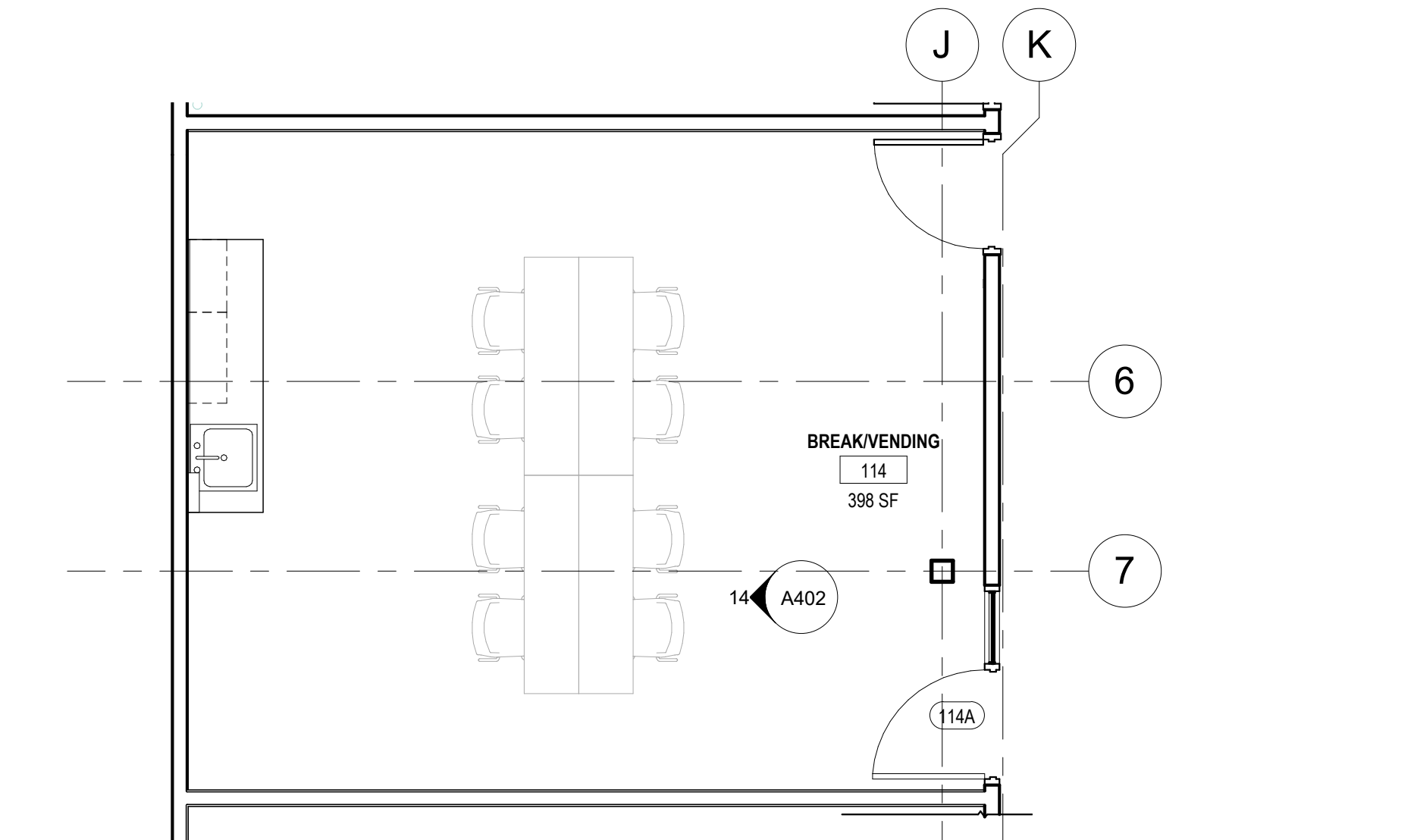
9 MEN'S LOCKERS - WEST ELEVATION
1/4" = 1'-0"



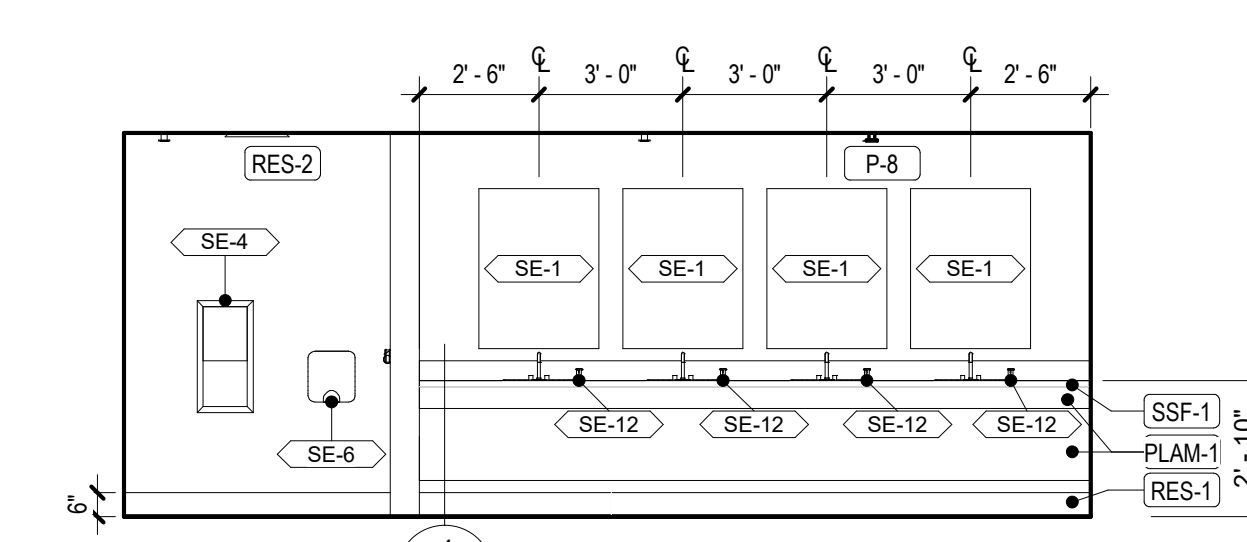
13 LACTATION AREA
1/4" = 1'-0"



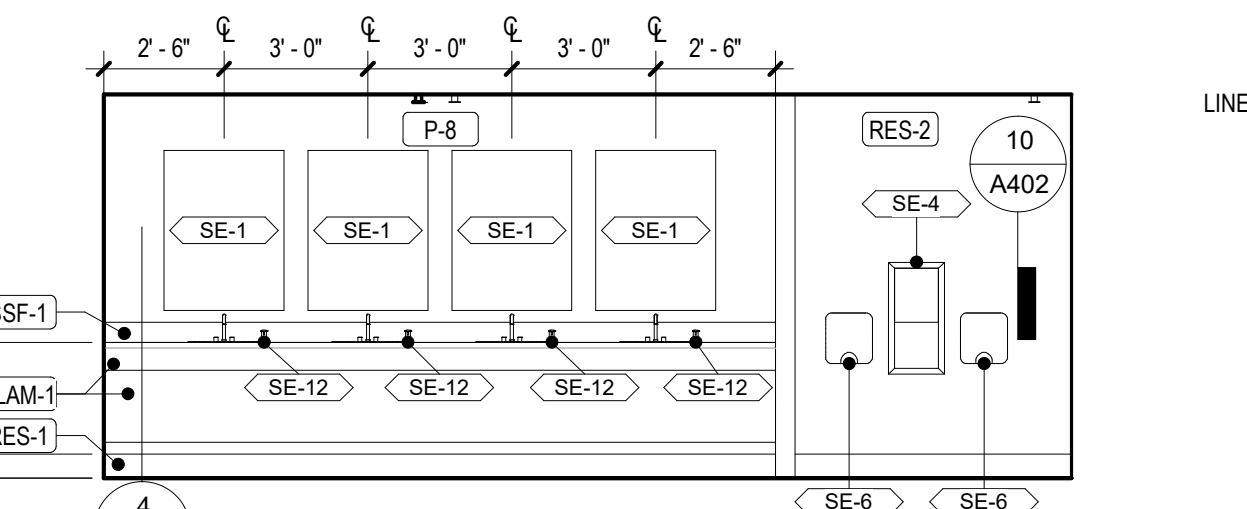
14 BREAK ROOM - WEST ELEVATION
1/4" = 1'-0"



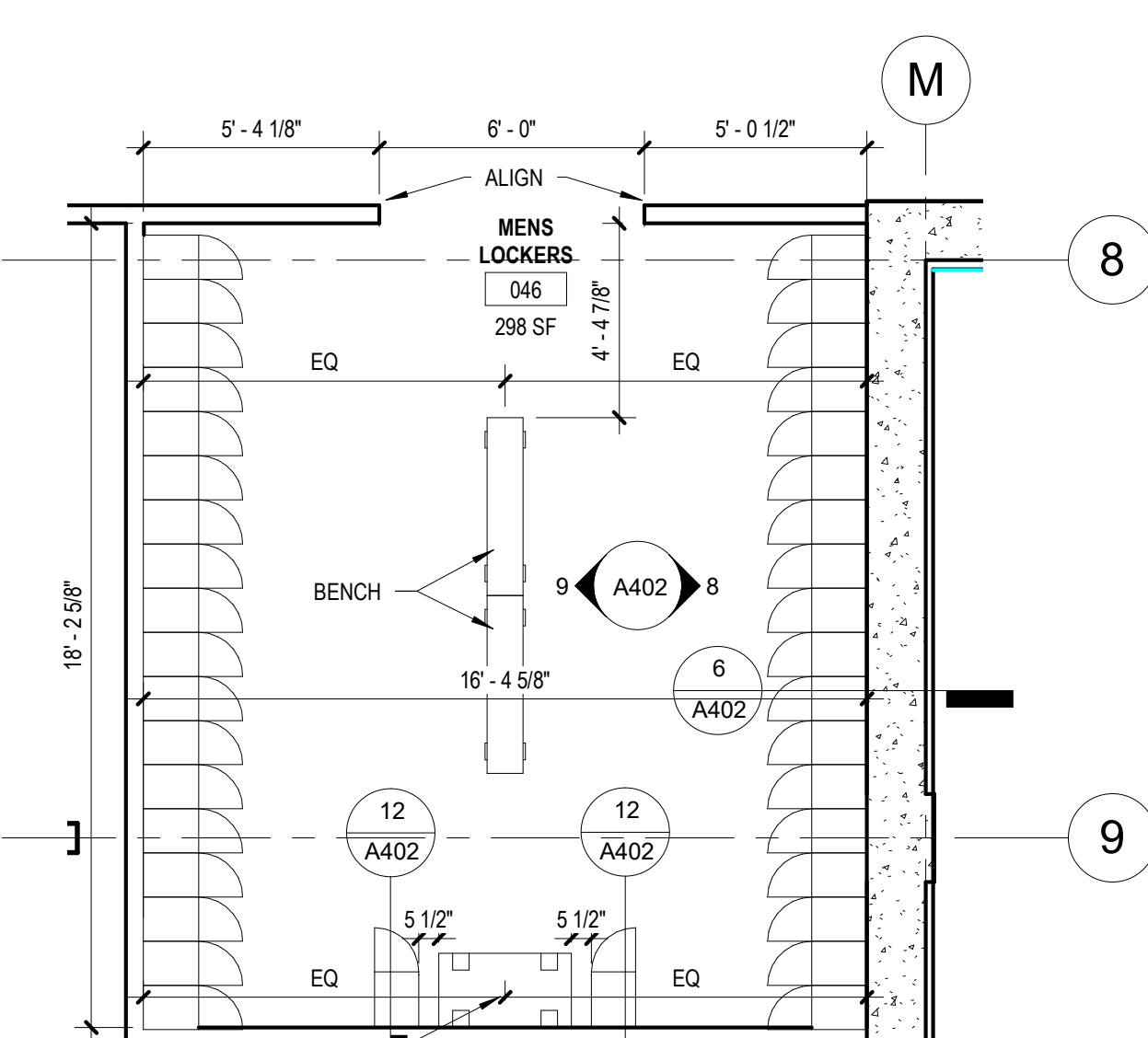
15 ENLARGED PLAN - BREAK ROOM
1/4" = 1'-0"



1 WOMEN'S LATRINE - NORTH ELEVATION
1/4" = 1'-0"

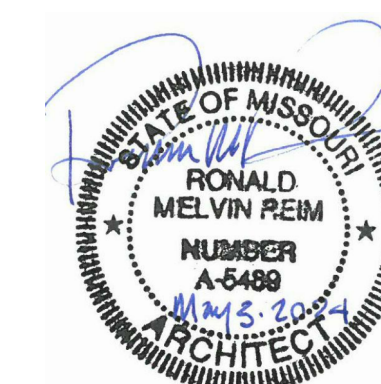


3 MEN'S LATRINE - SOUTH ELEVATION
1/4" = 1'-0"



7 ENLARGED PLAN - MEN'S LOCKER ROOM
1/4" = 1'-0"

ACCESSORY SCHEDULE			
NUMBER	EQUIPMENT DESCRIPTION	PROVIDED BY	INSTALLED BY
SE-1	WALL MIRROR, SEE ELEVATIONS FOR SIZE	GC	GC
SE-2	SHOWER SEAT, ADA	GC	GC
SE-3	DISPENSER, PAPER TOWEL, SS, SURFACE MOUNTED	OWNER	GC
SE-4	PAPER TOWEL DISPENSER, WALL RECESSED	OWNER	GC
SE-5	SURFACE MOUNTED TOILET TISSUE DISPENSER	OWNER	GC
SE-6	HAND DRYER	OWNER	GC
SE-7	AMBULATORY GRAB BARS, (2) 42" SIDES & (1) 18" VERTICAL	GC	GC
SE-8	GRAB BARS, (1) 42" SIDE, (1) 36" REAR, (1) 18" VERTICAL	GC	GC
SE-9	SURFACE MOUNTED SANITARY NAPKIN RECEPTACLE	OWNER	GC
SE-10	WALL MOUNTED TOWEL HOOK	OWNER	GC
SE-11	FIXED SHOWER CURTAIN ROD	GC	GC
SE-12	COUNTERTOP MOUNTED SOAP DISPENSER	OWNER	GC
SE-13	GRAB BARS, SHOWER	GC	GC



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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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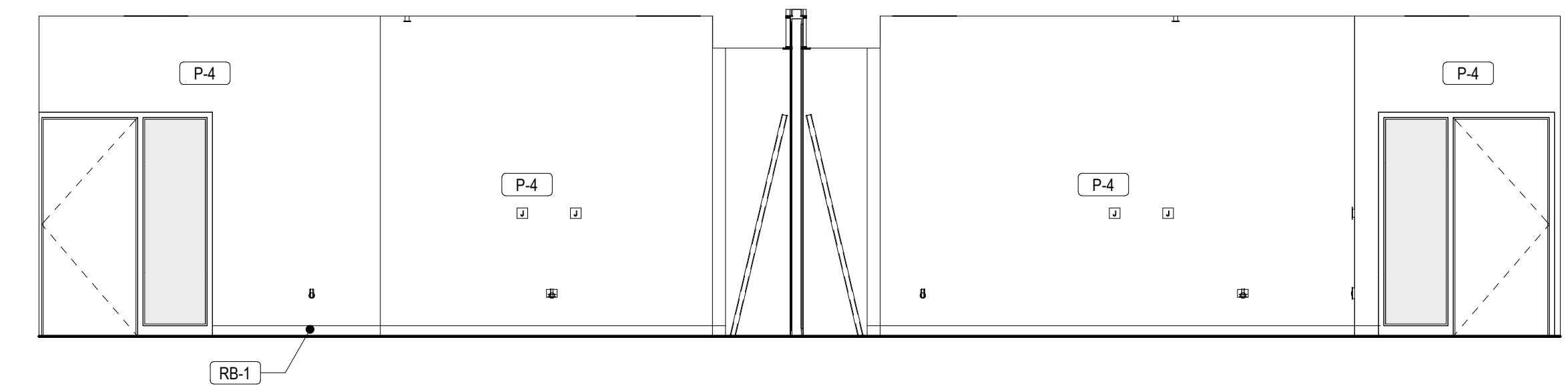
CAD DWG FILE: _____
DRAWN BY: HR/MS
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DESIGNED BY: OCULUS

SHEET TITLE:
**ENLARGED
CLASSROOM PLANS**

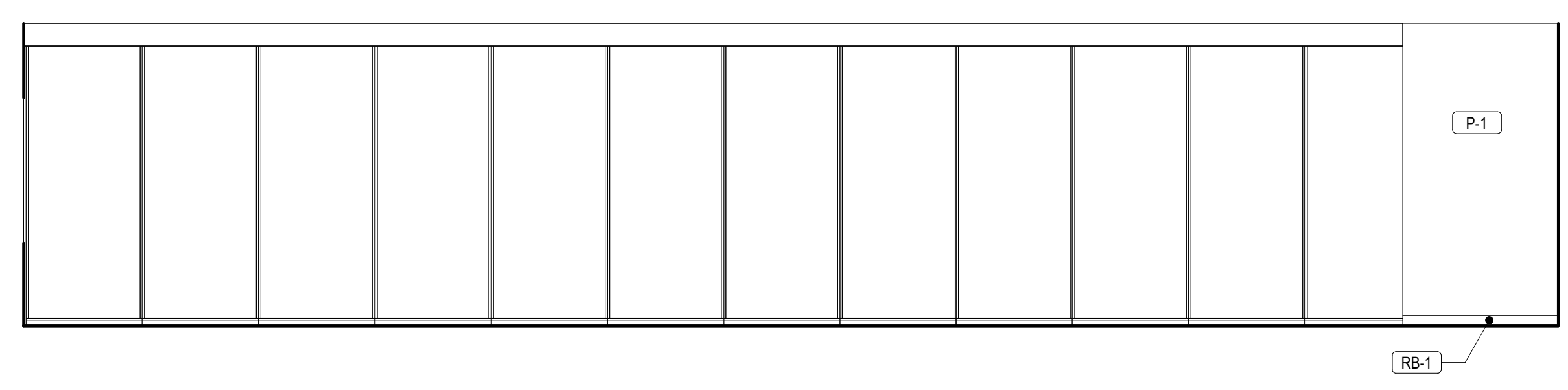
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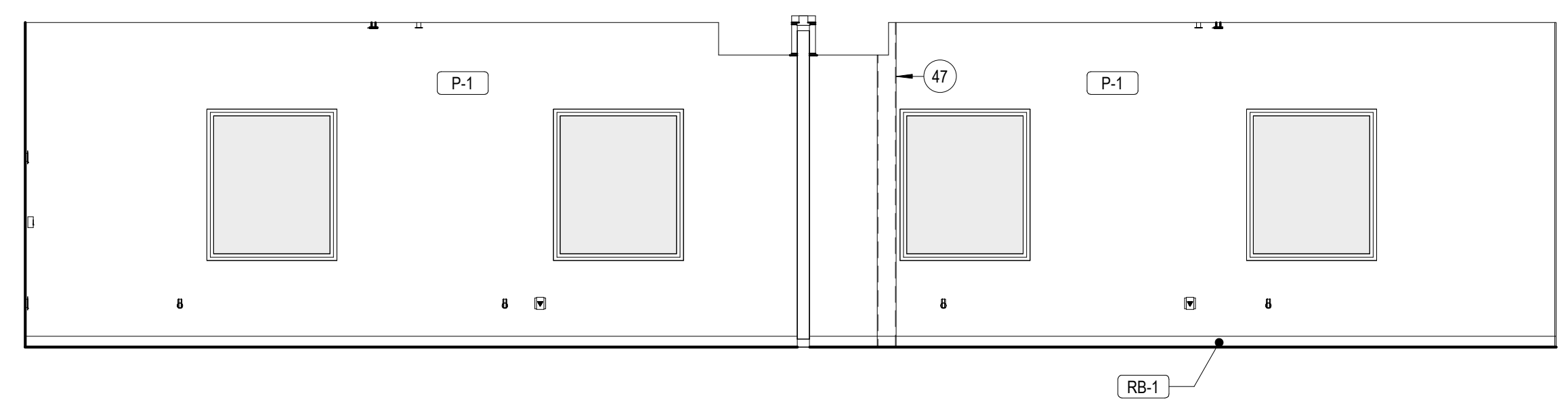
137 OF 272 SHEETS
05/03/2024



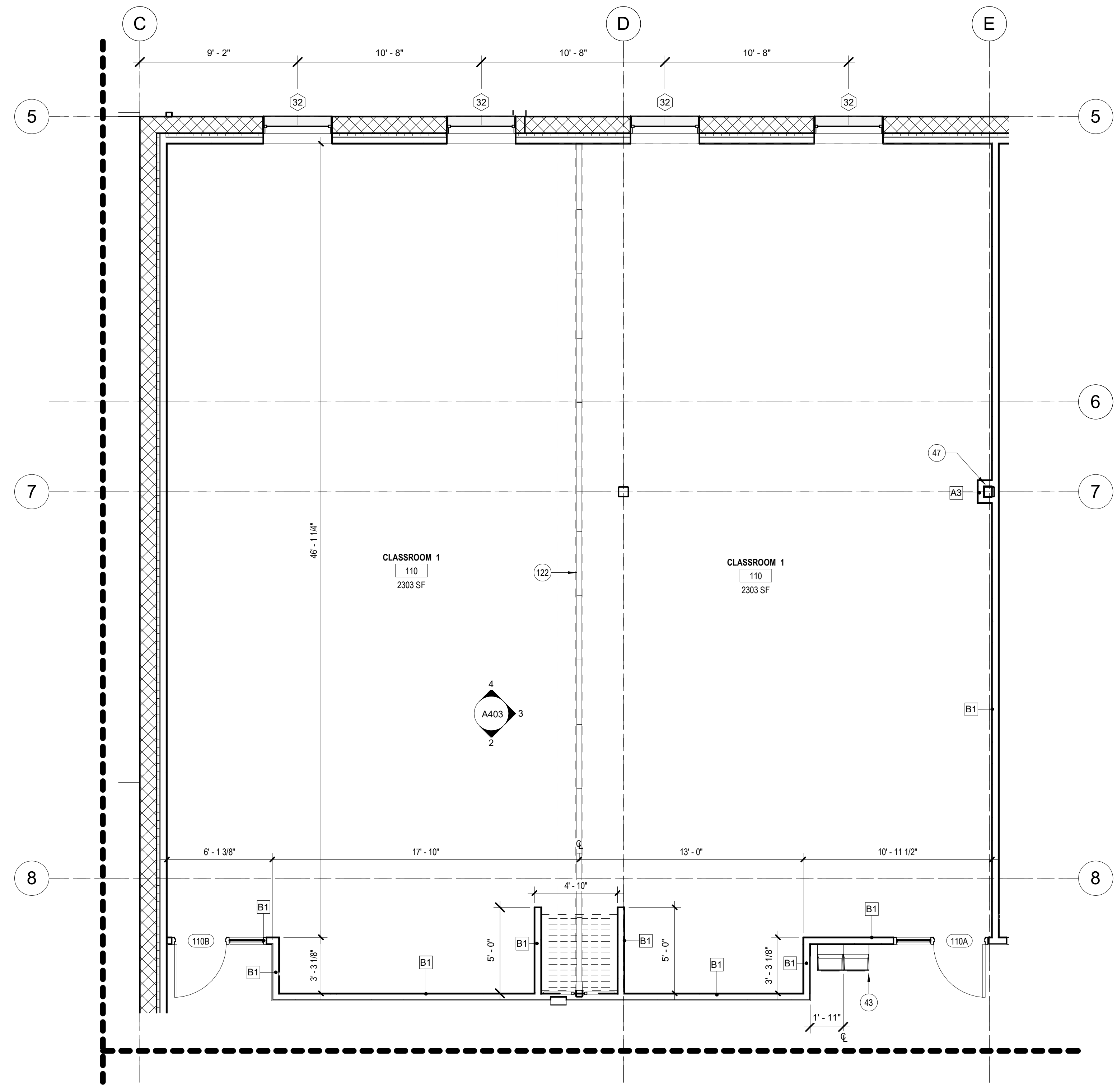
2 SOUTH ELEVATION - CLASSROOM
1/4" = 1'-0"



3 EAST ELEVATION - CLASSROOM
1/4" = 1'-0"



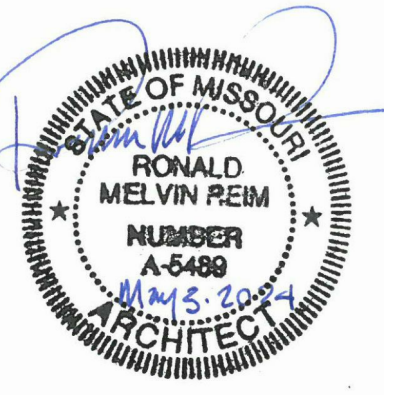
4 NORTH ELEVATION - CLASSROOM
1/4" = 1'-0"



1 FIRST FLOOR PLAN - AREA B
1/4" = 1'-0"

KEYNOTE LEGEND

- 43 HIGH/LOW ADA WALL MOUNTED DRINKING FOUNTAIN, REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
- 47 STRUCTURAL COLUMN, TYP. REFERENCE STRUCTURAL FOR ADDITIONAL INFORMATION
- 122 OPERABLE, MANUAL PARTITION.



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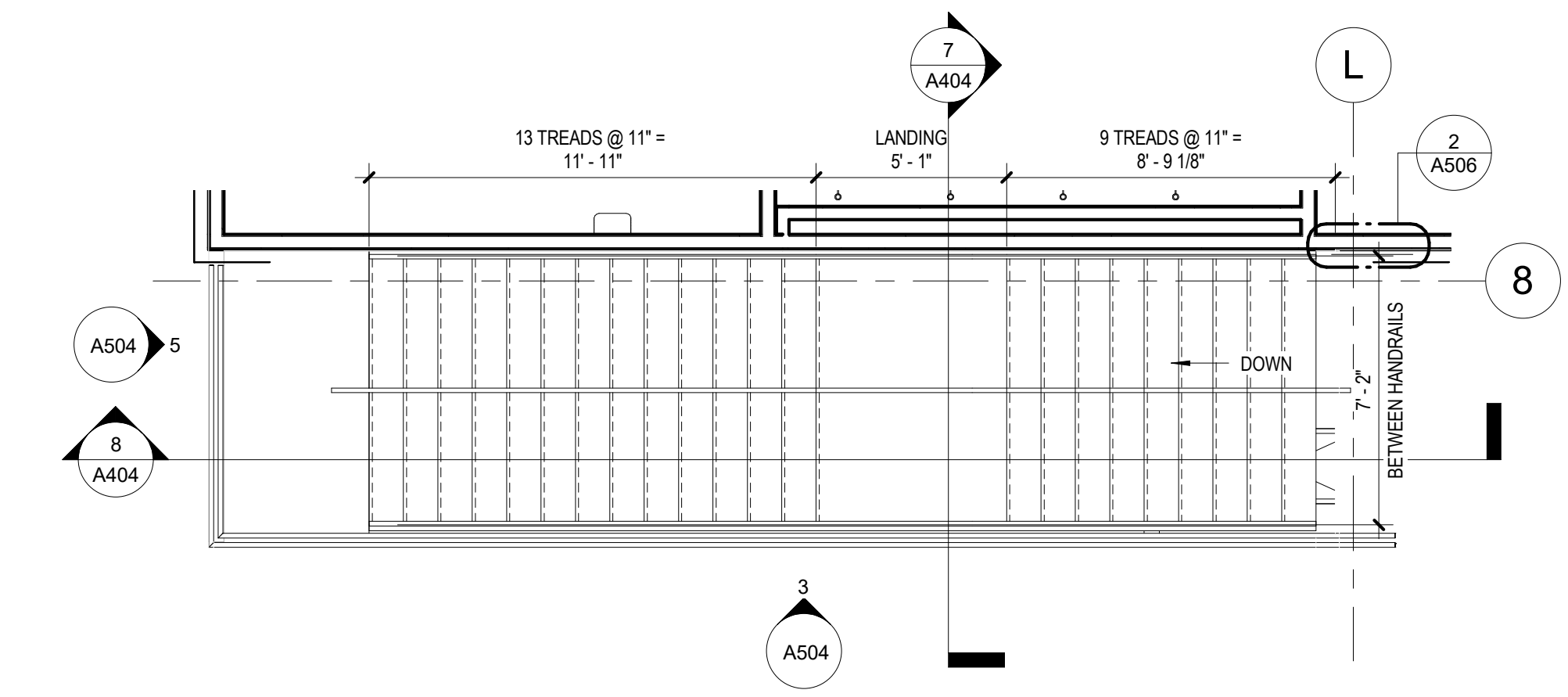
CAD DWG FILE: _____
DRAWN BY: EH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
**ENLARGED STAIR
PLANS & SECTIONS**

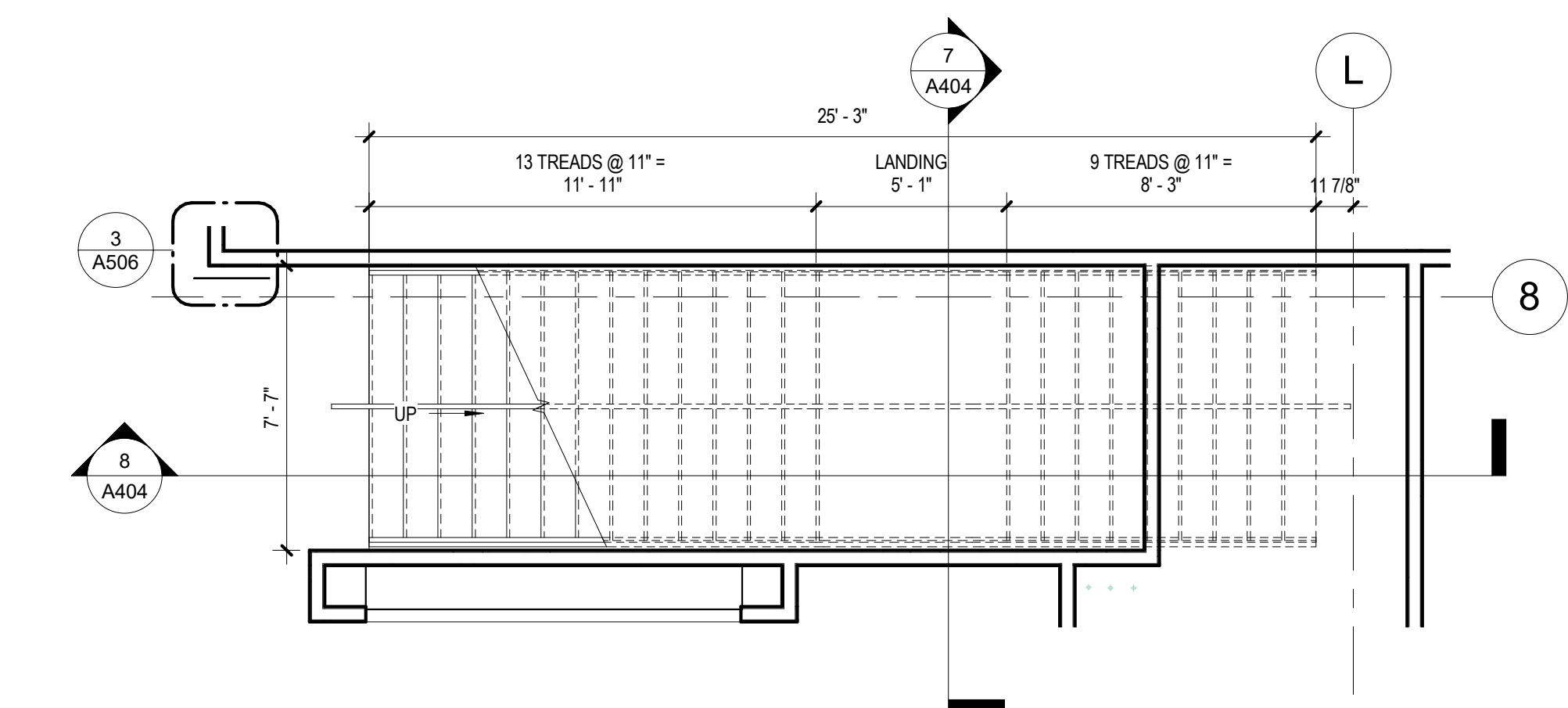
SHEET NUMBER:

A404

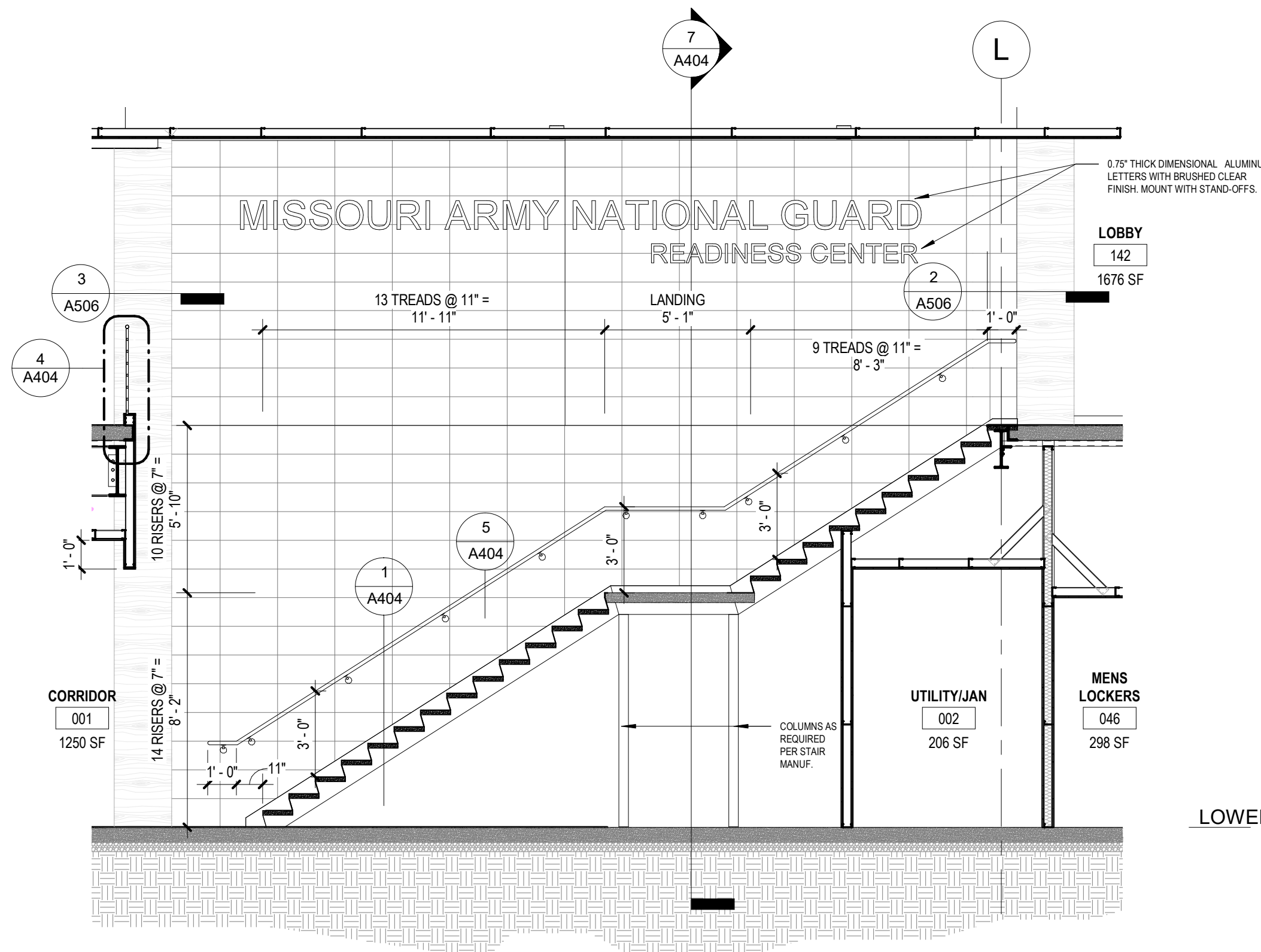
138 OF 272 SHEETS
05/03/2024



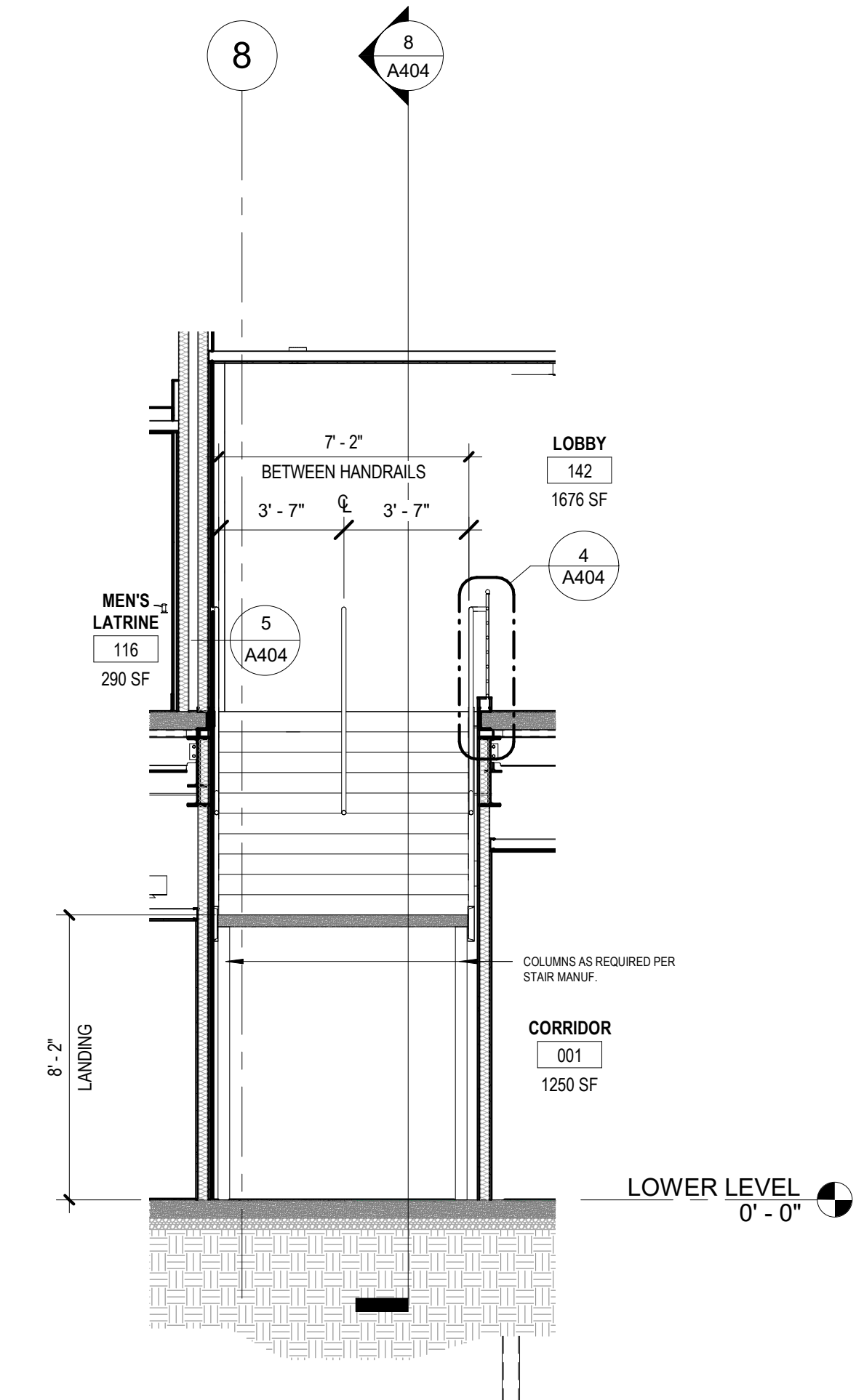
10 EAST STAIR - FIRST FLOOR ENLARGED PLAN
1/4" = 1'-0"



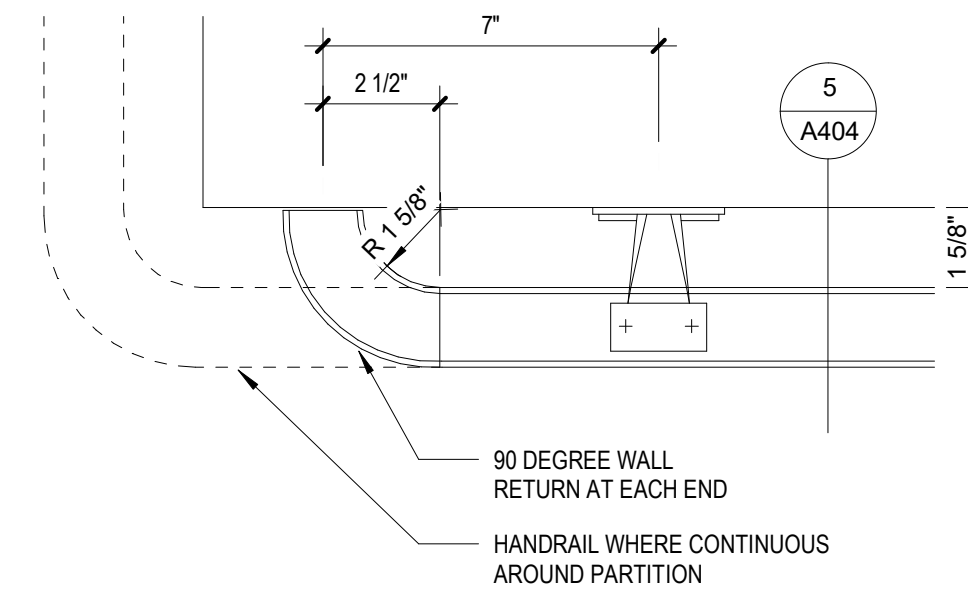
9 EAST STAIR - LOWER LEVEL ENLARGED PLAN
1/4" = 1'-0"



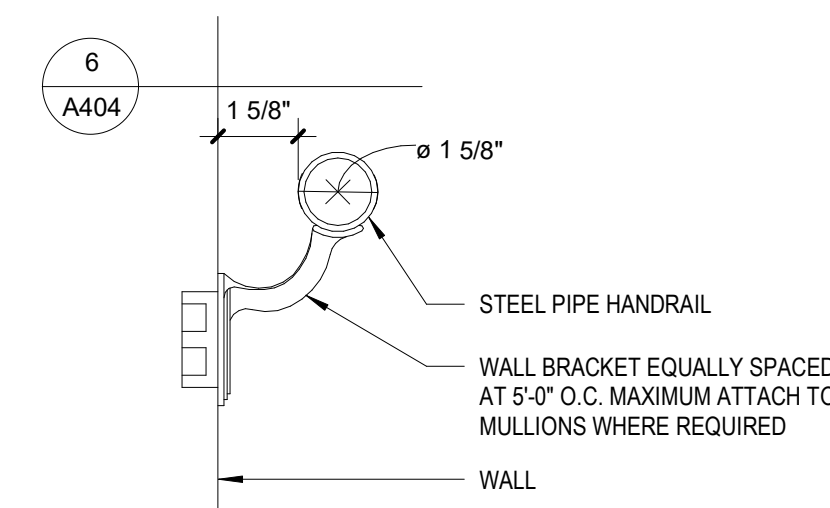
8 EAST STAIR SECTION
1/4" = 1'-0"



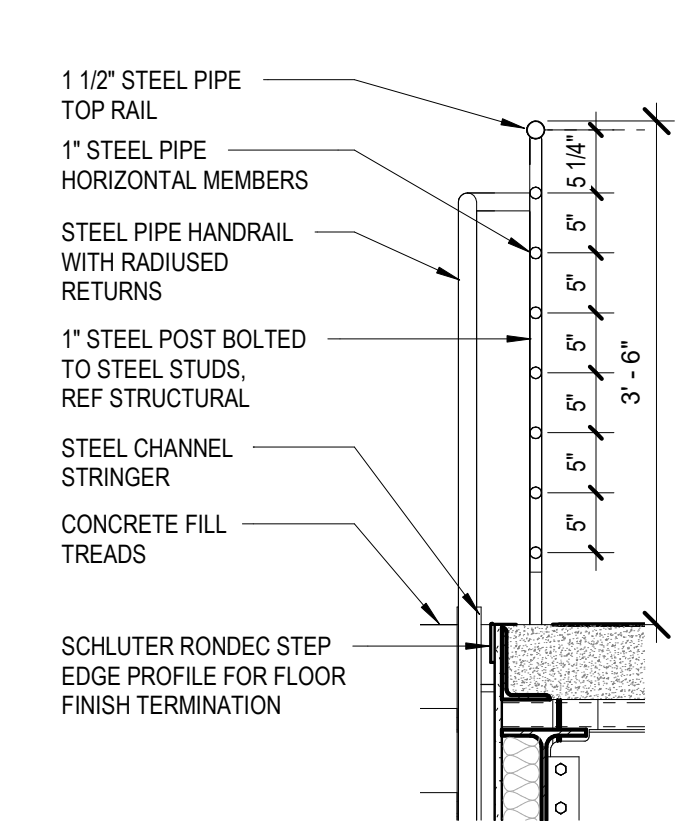
7 EAST STAIR SECTION
1/4" = 1'-0"



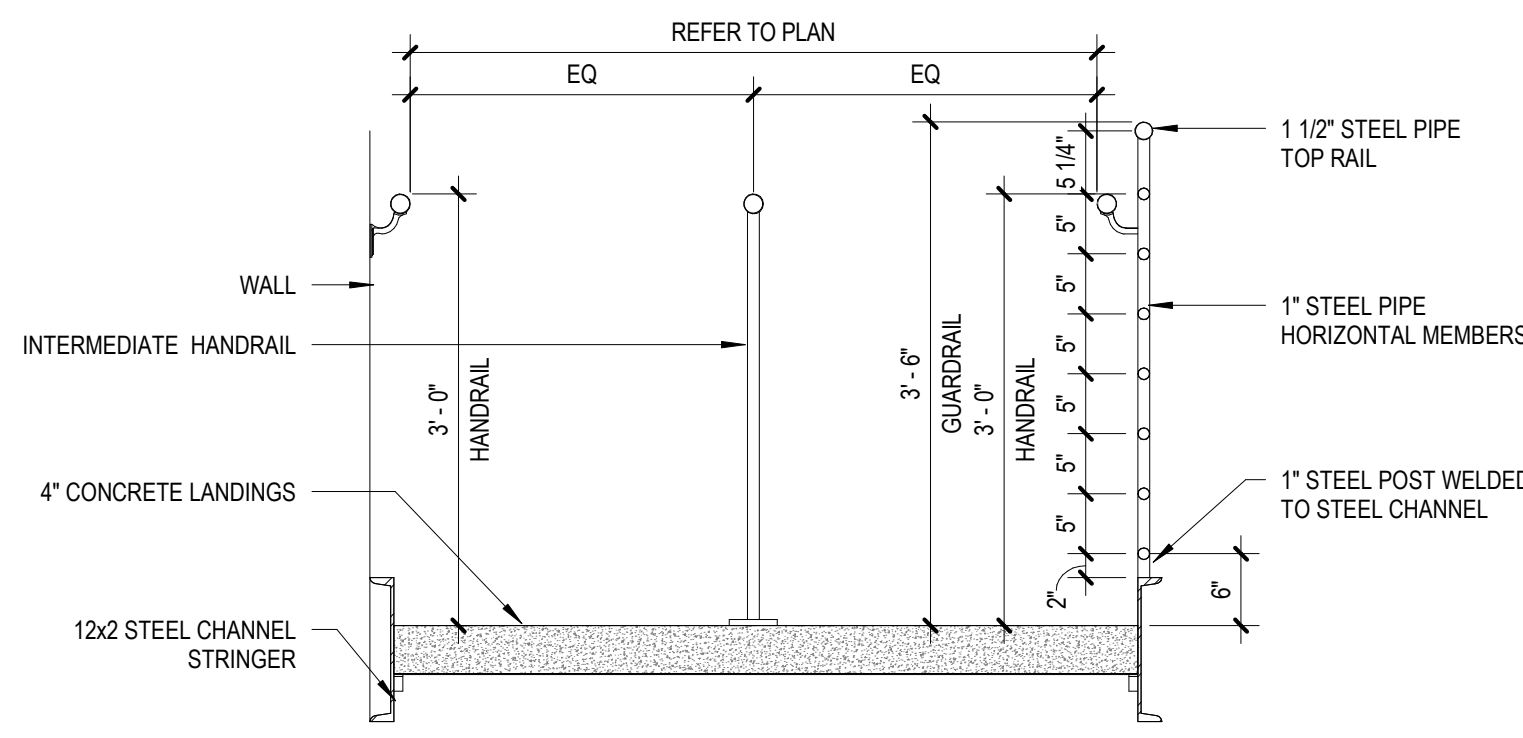
6 TYPICAL HANDRAIL DETAIL AT WALL
3/8" = 1'-0"



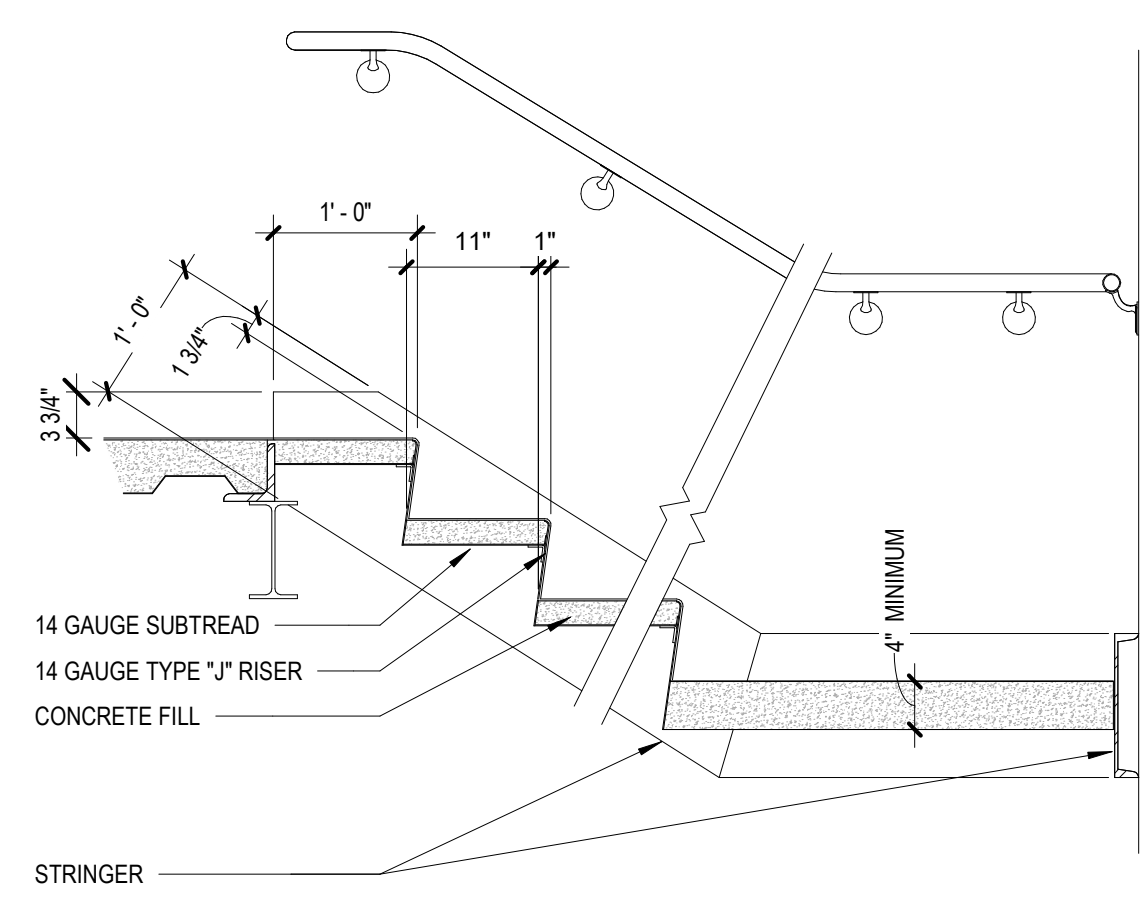
5 TYPICAL STAIR HANDRAIL SECTION
3/8" = 1'-0"



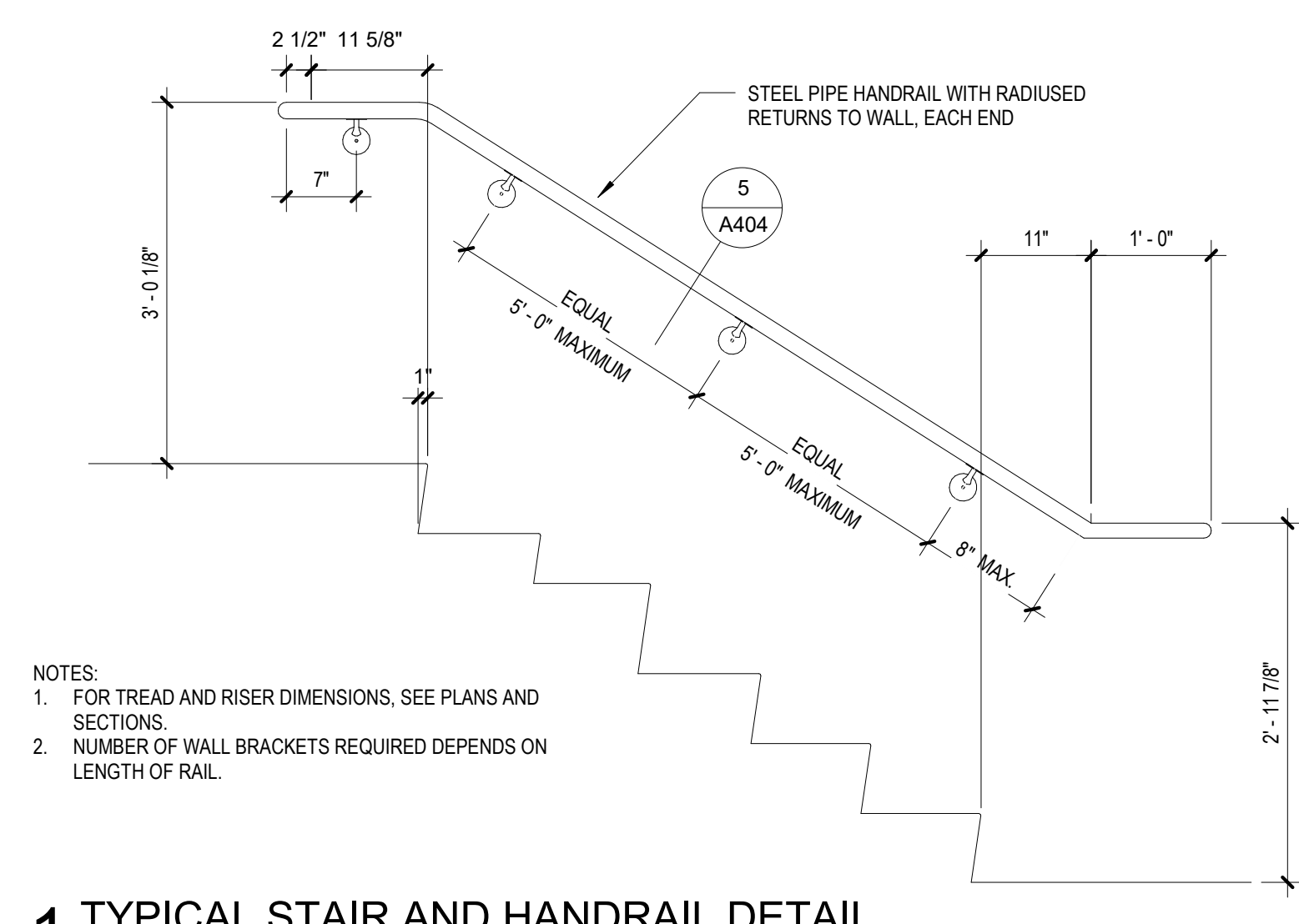
4 TYPICAL GUARDRAIL DETAIL
3/4" = 1'-0"



3 TYPICAL HANDRAIL / GUARDRAIL DETAIL
3/4" = 1'-0"



2 TYPICAL STAIR TREAD DETAIL
3/4" = 1'-0"



NOTES:
1. FOR TREAD AND RISER DIMENSIONS, SEE PLANS AND SECTIONS.
2. NUMBER OF WALL BRACKETS REQUIRED DEPENDS ON LENGTH OF RAIL.

1 TYPICAL STAIR AND HANDRAIL DETAIL
3/4" = 1'-0"



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63136

PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE: _____
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DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 05/03/2024

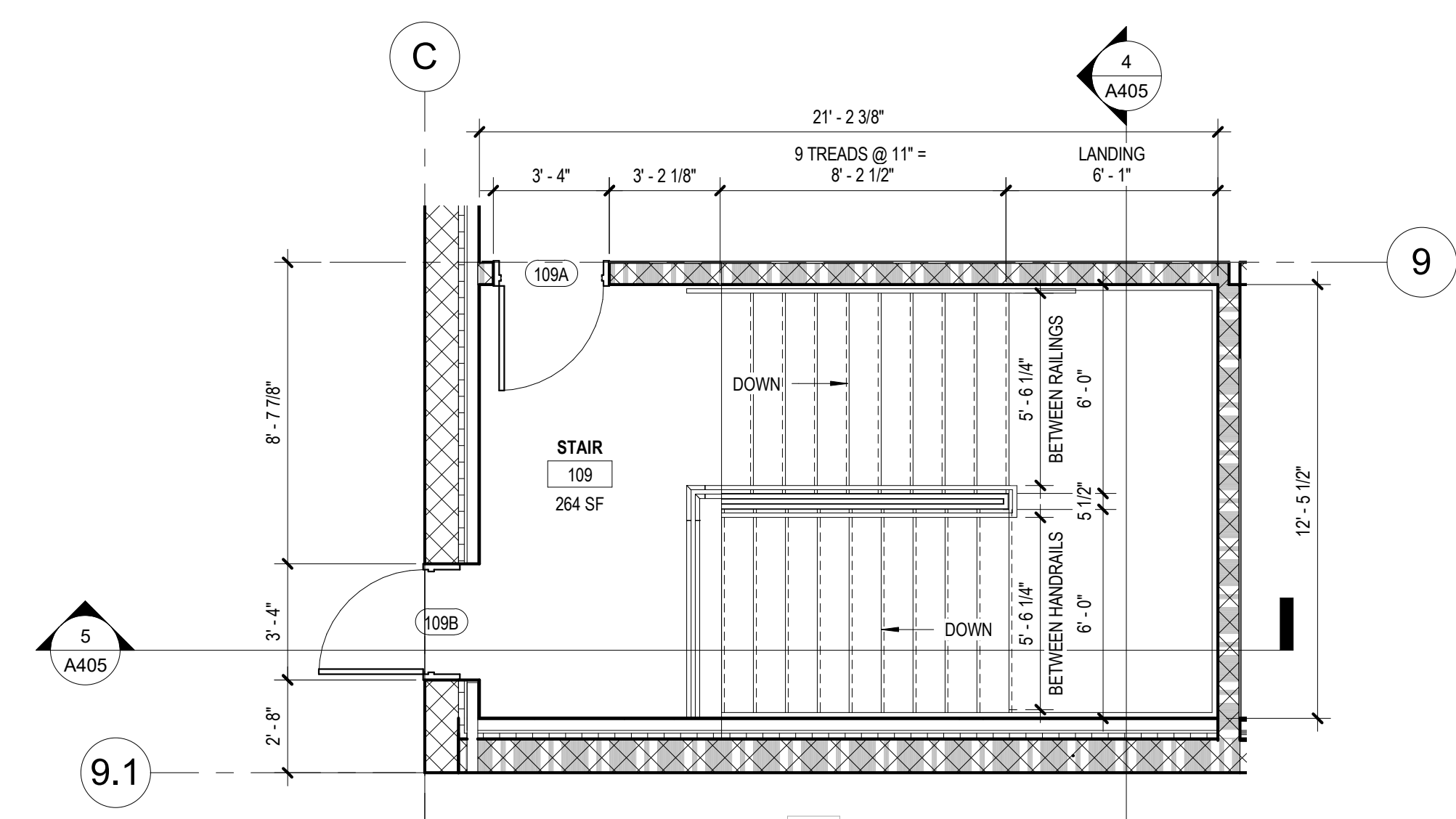
CAD DWG FILE:
DRAWN BY: EH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
**ENLARGED STAIR
PLANS & SECTIONS**

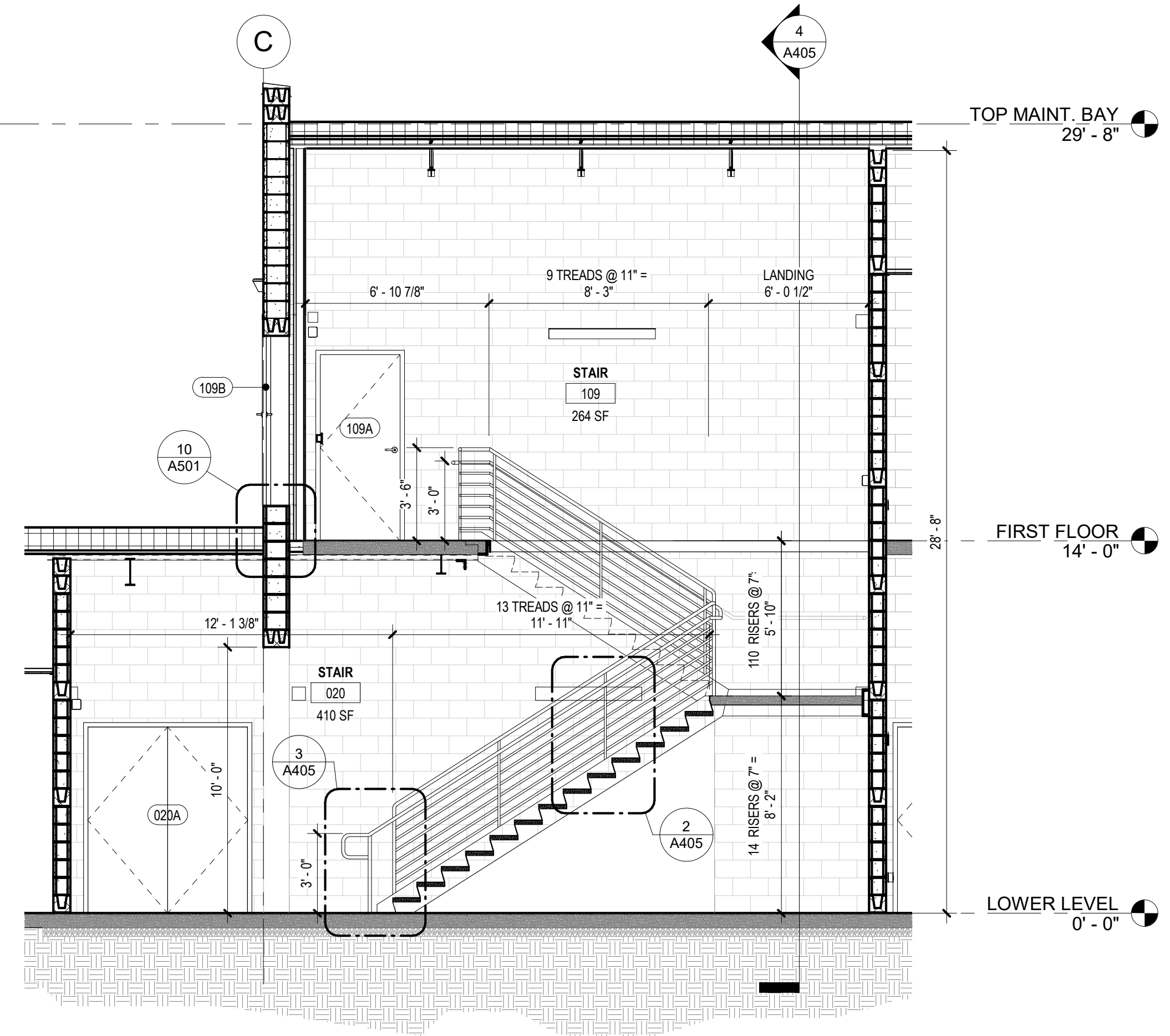
SHEET NUMBER:

A405

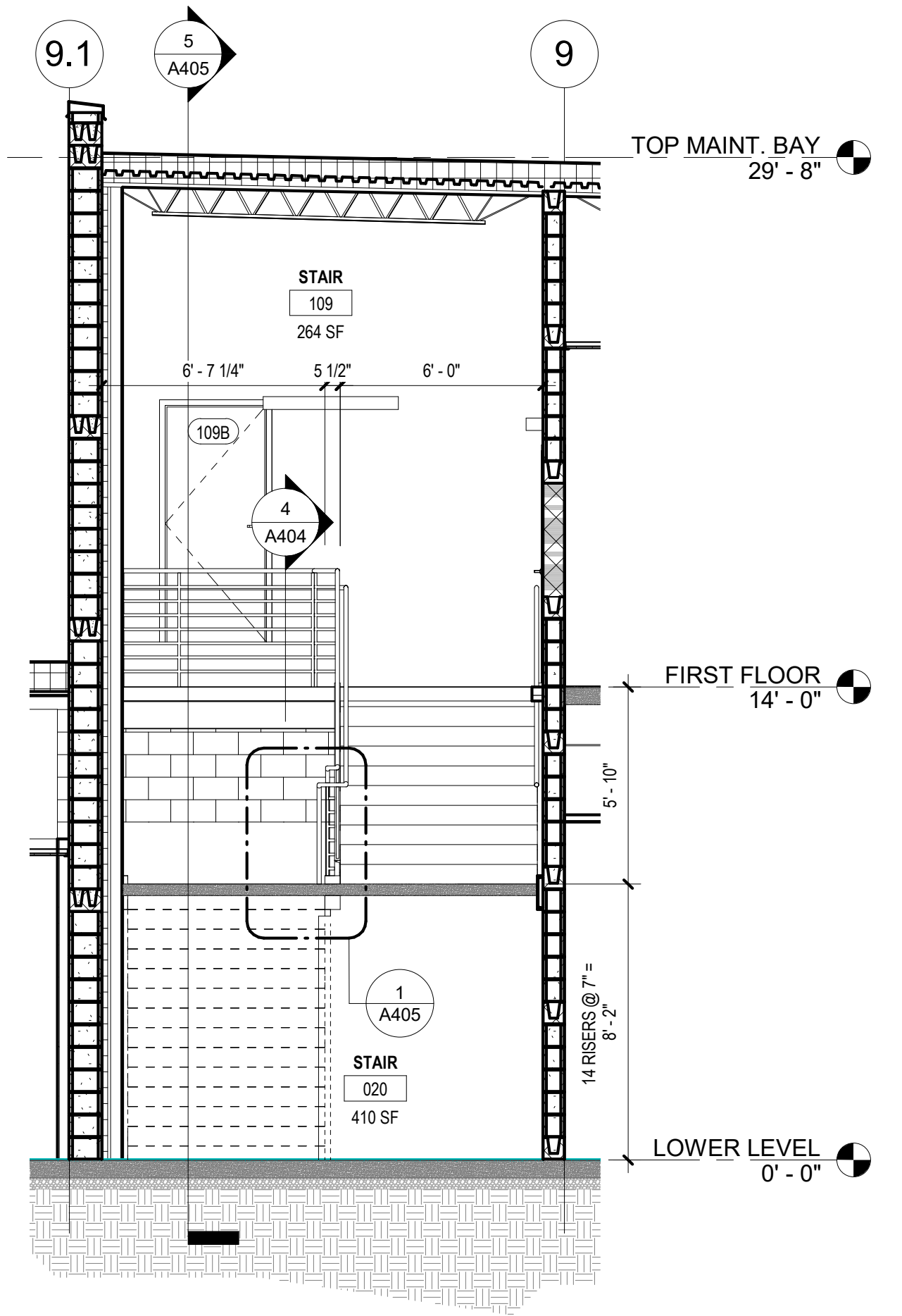
139 OF 272 SHEETS
05/03/2024



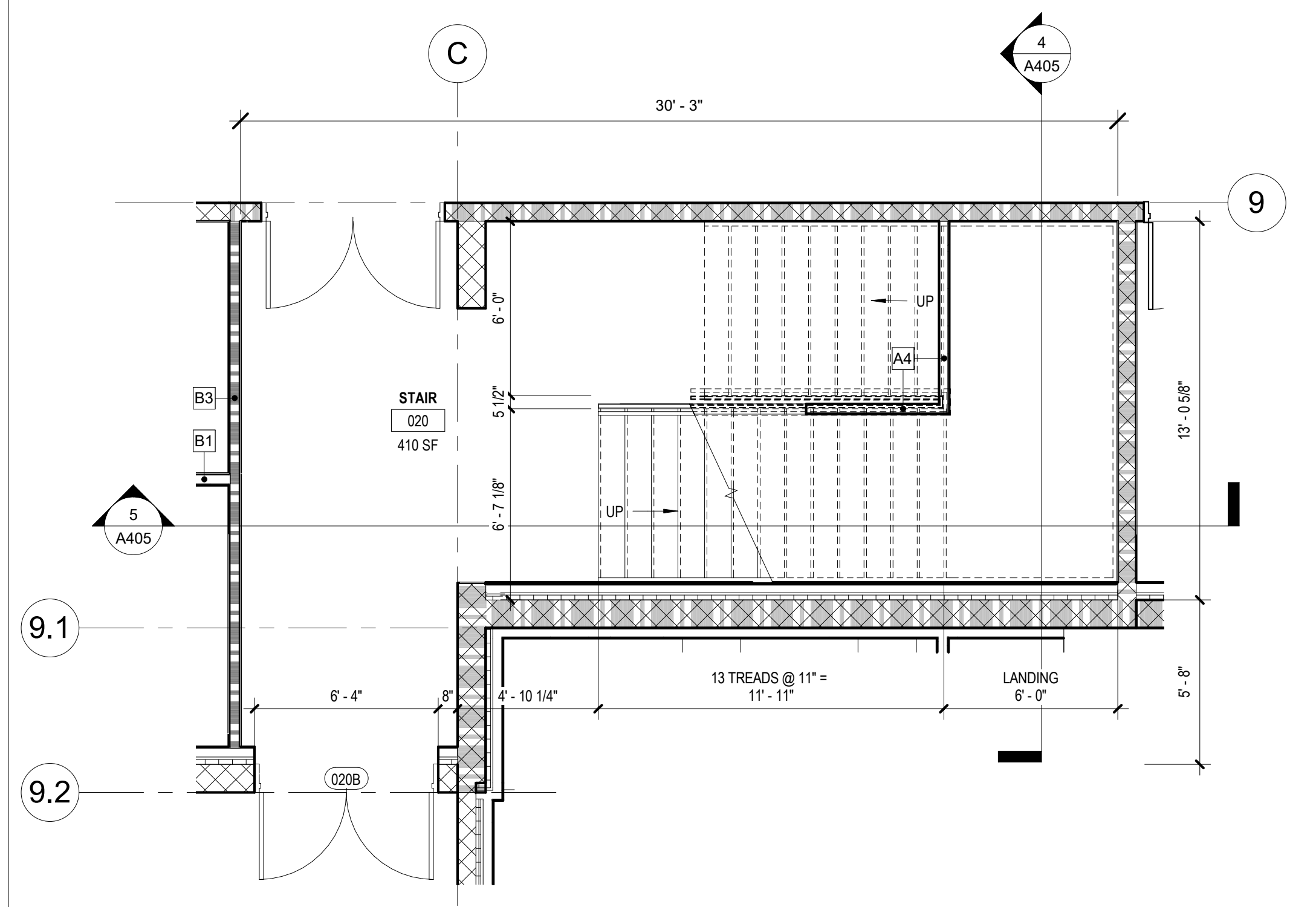
7 WEST STAIR - FIRST LEVEL
1/4" = 1'-0"



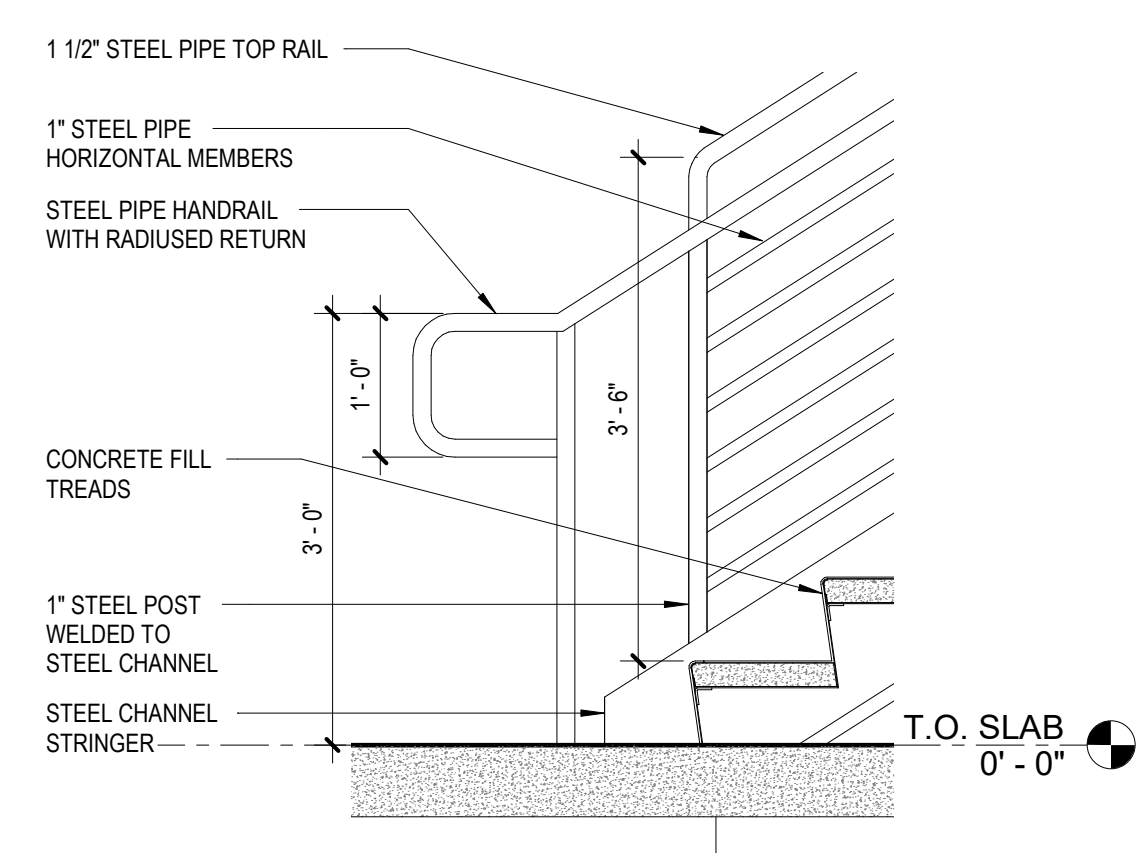
5 WEST STAIR SECTION
1/4" = 1'-0"



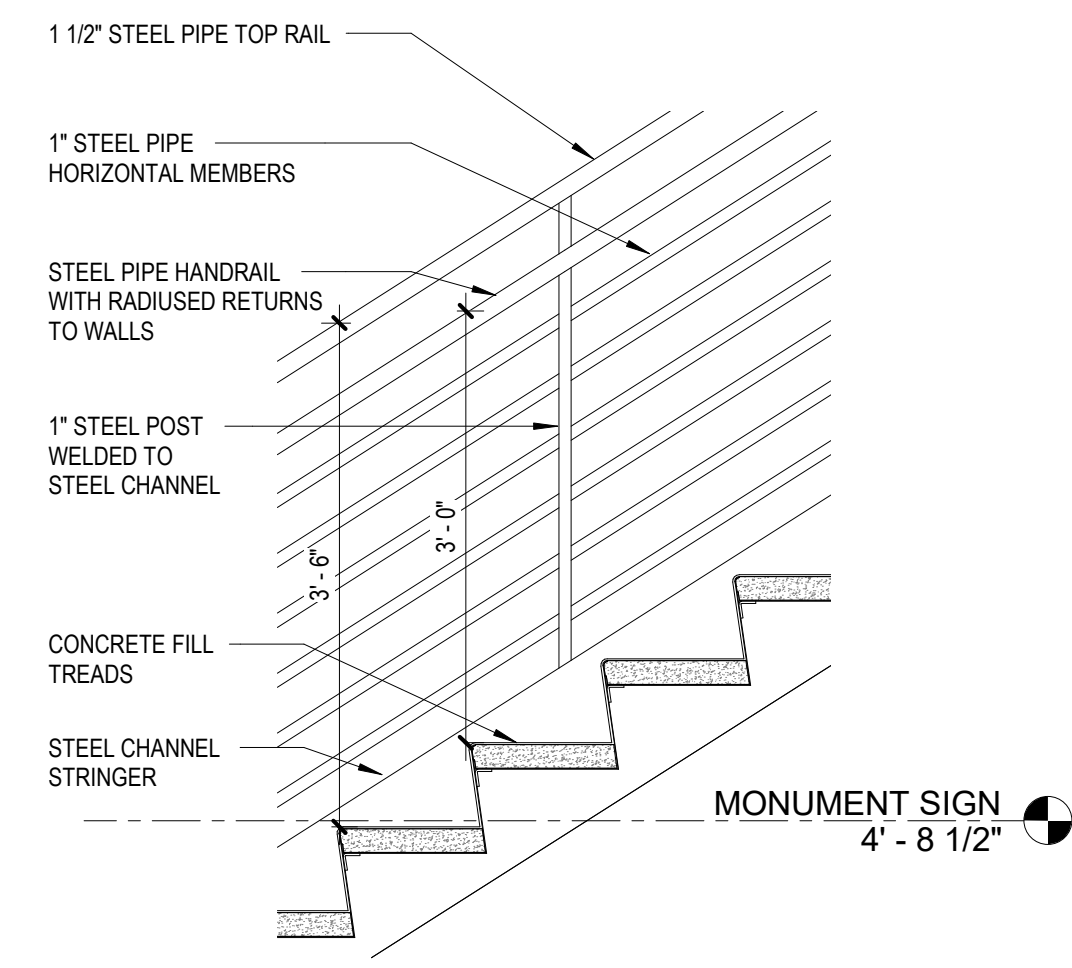
4 WEST STAIR SECTION
1/4" = 1'-0"



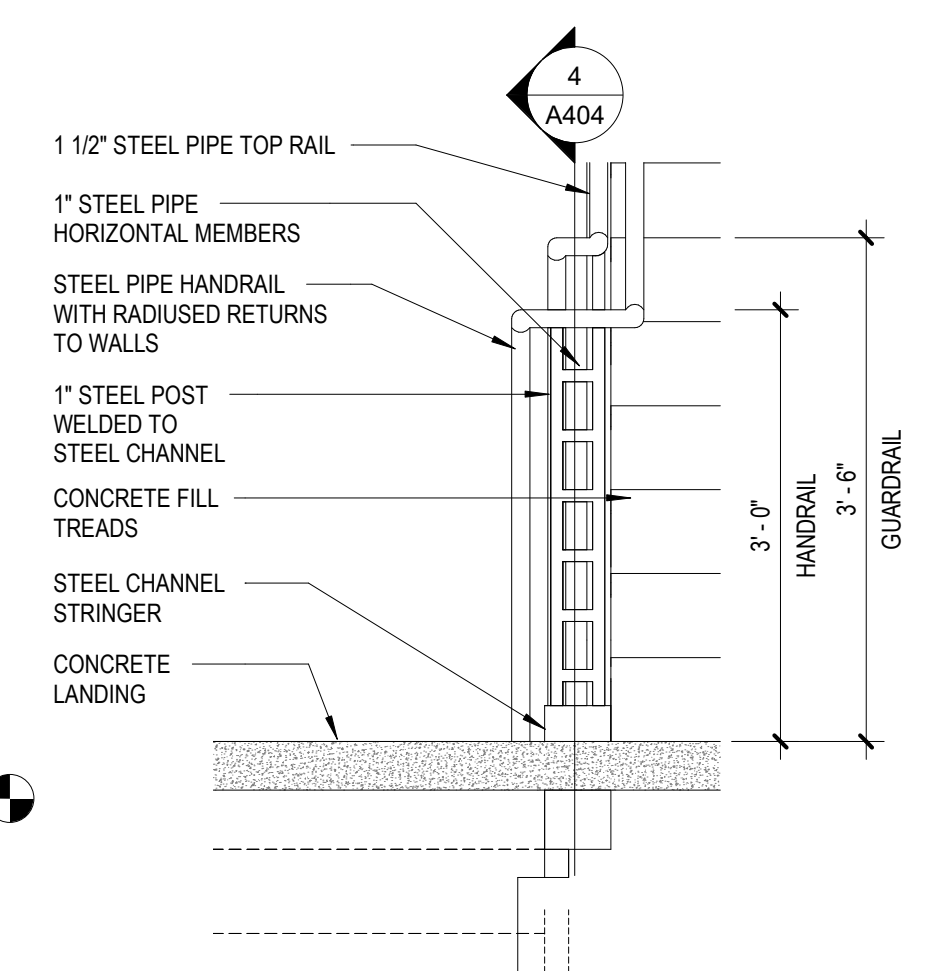
6 WEST STAIR - LOWER LEVEL
1/4" = 1'-0"



3 STAIR BASE
3/4" = 1'-0"



2 STAIR RAILING
3/4" = 1'-0"



1 STAIR LANDING
3/4" = 1'-0"



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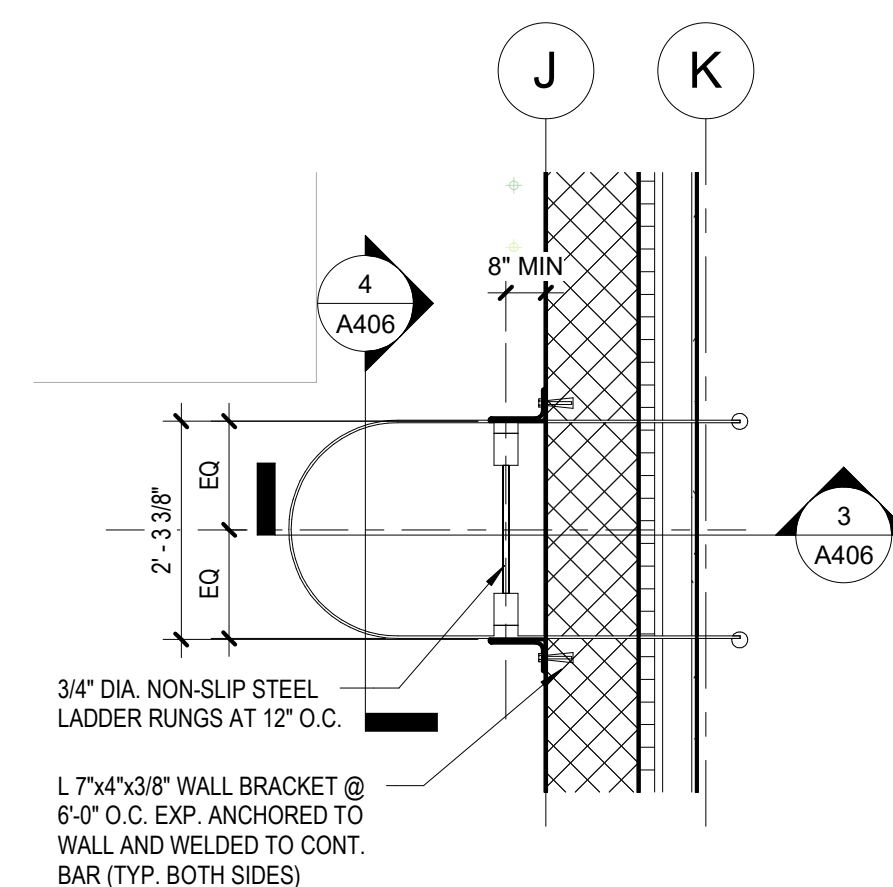
CAD DWG FILE:
DRAWN BY: CK
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
**CHANILINK GATE
DETAIL & ROOF
LADDER ENLARGED
PLAN AND SECTION**

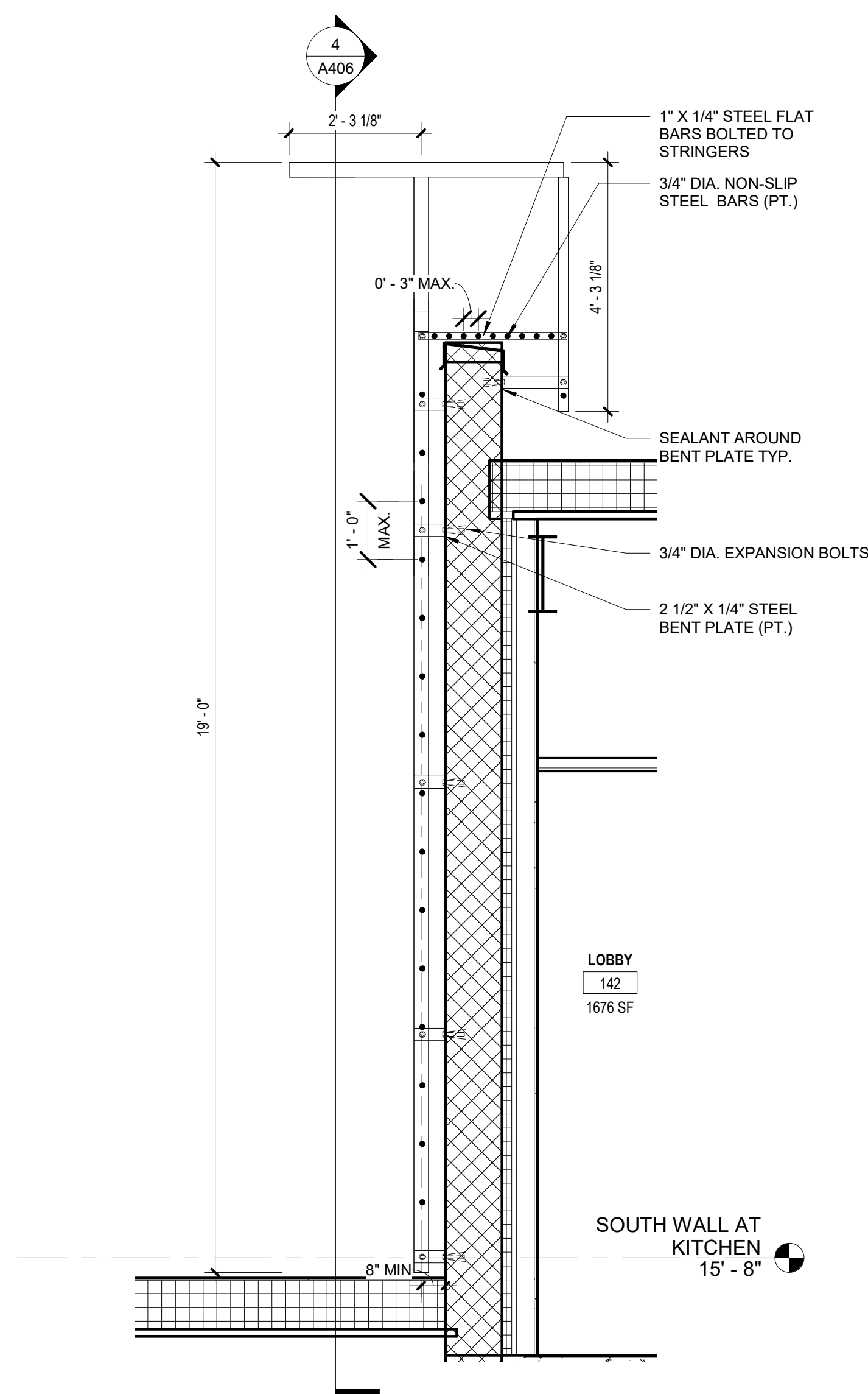
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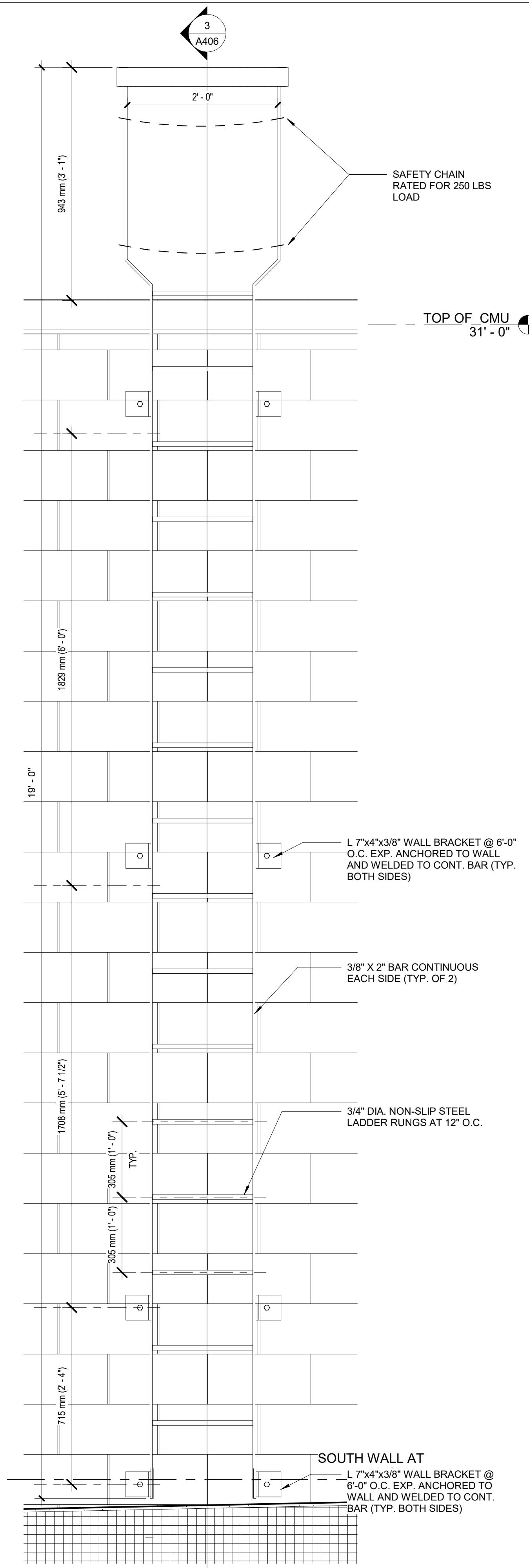
140 OF 272 SHEETS
05/03/2024



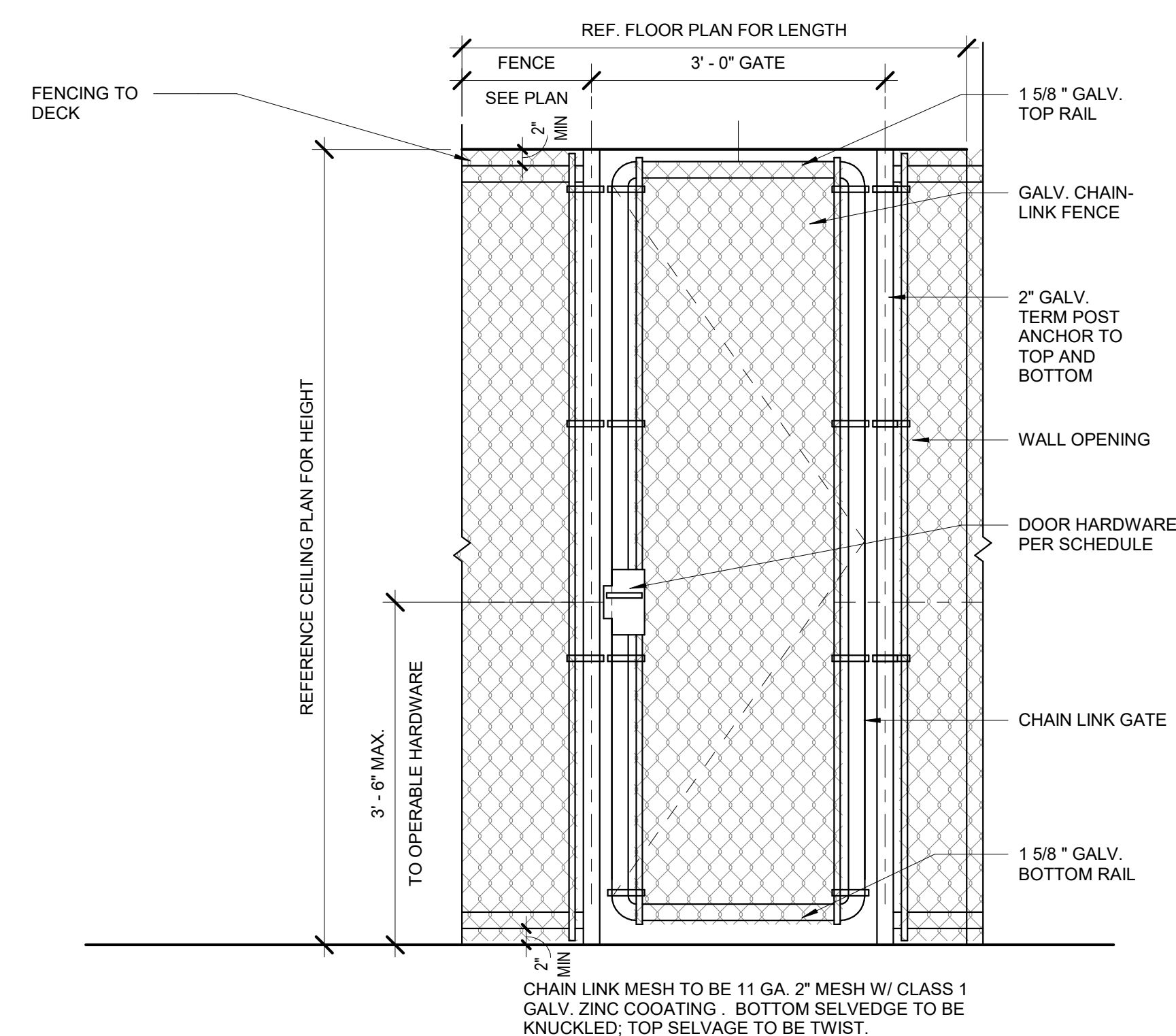
2 ROOF LADDER ENLARGED PLAN
1/2" = 1'-0"



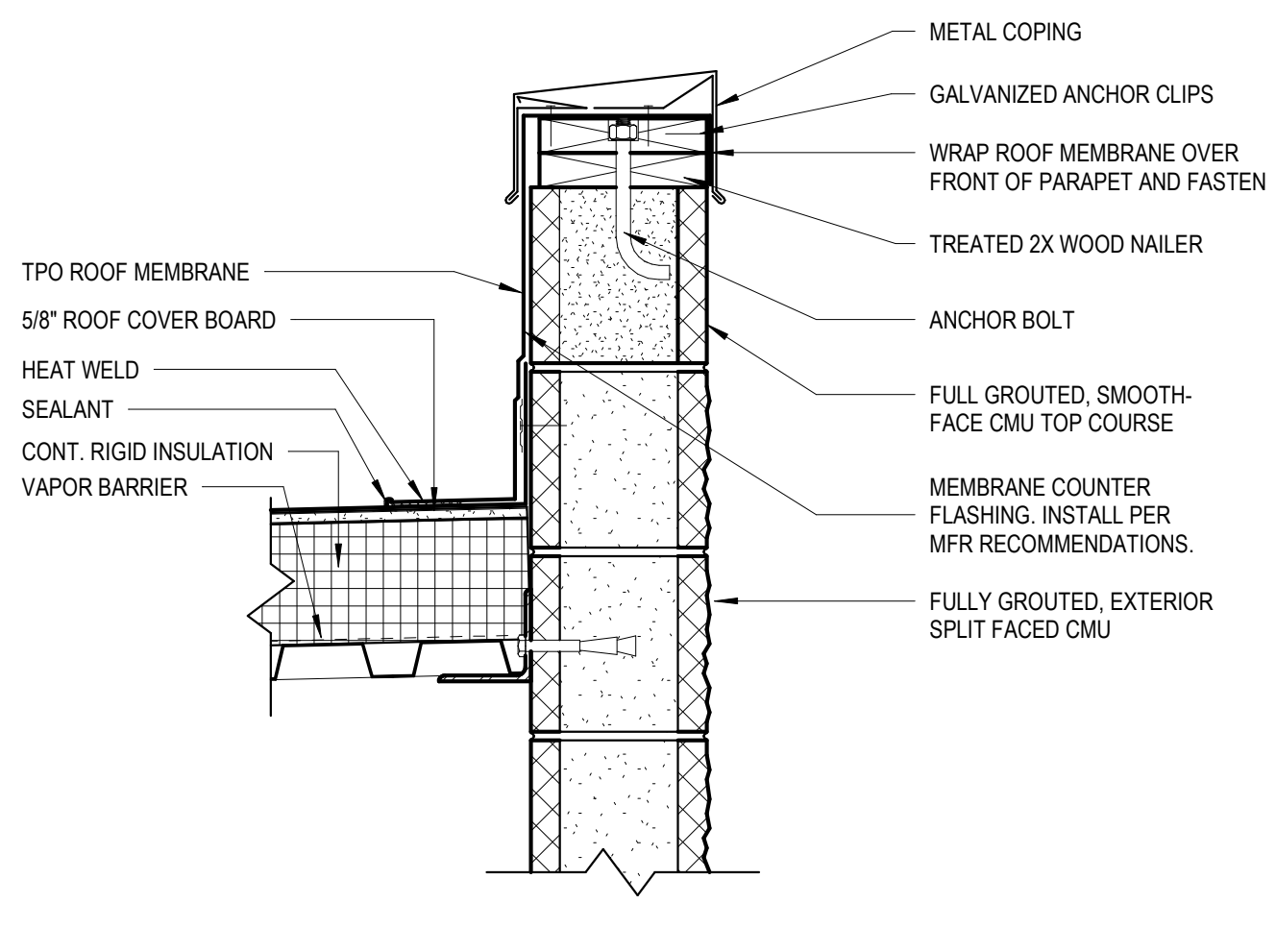
3 ROOF LADDER SECTION
1/2" = 1'-0"



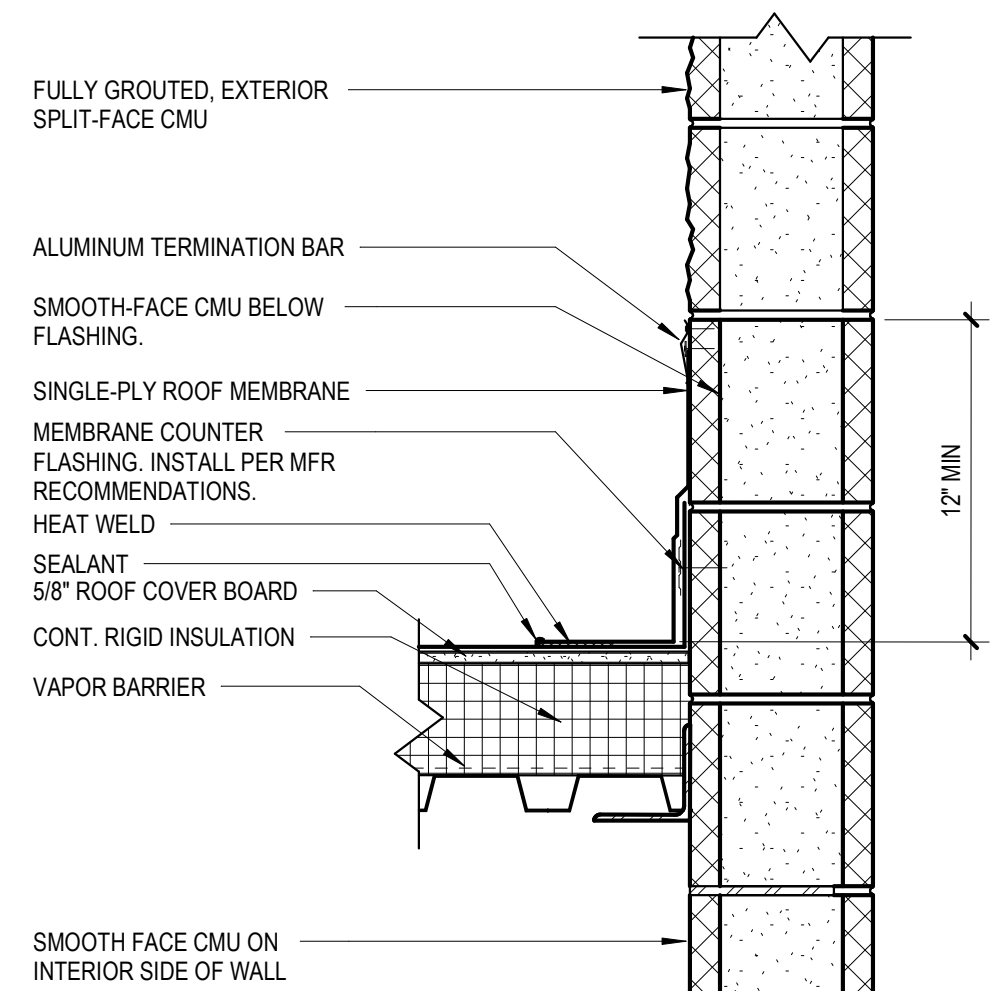
4 ROOF LADDER
1" = 1'-0"



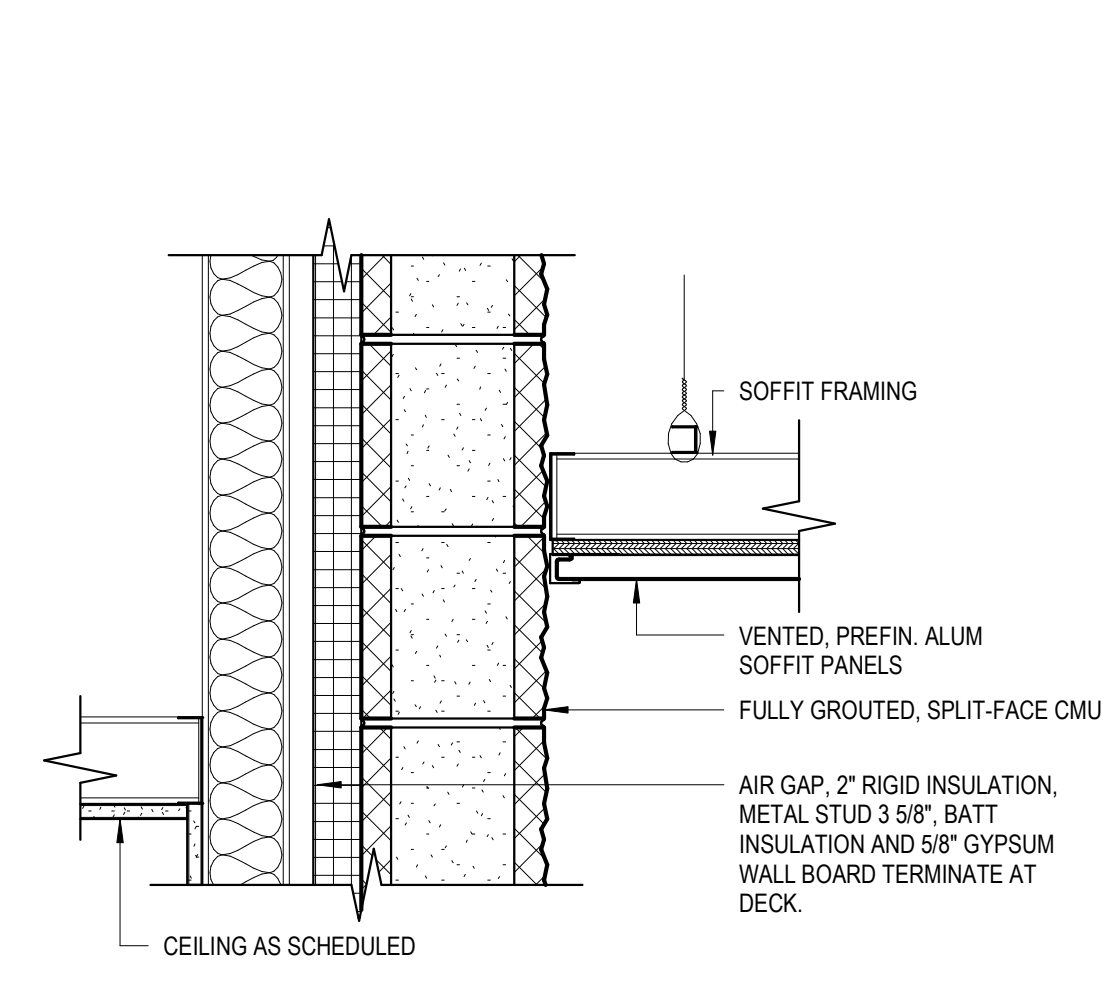
1 CHAINLINK GATE DETAIL
3/4" = 1'-0"



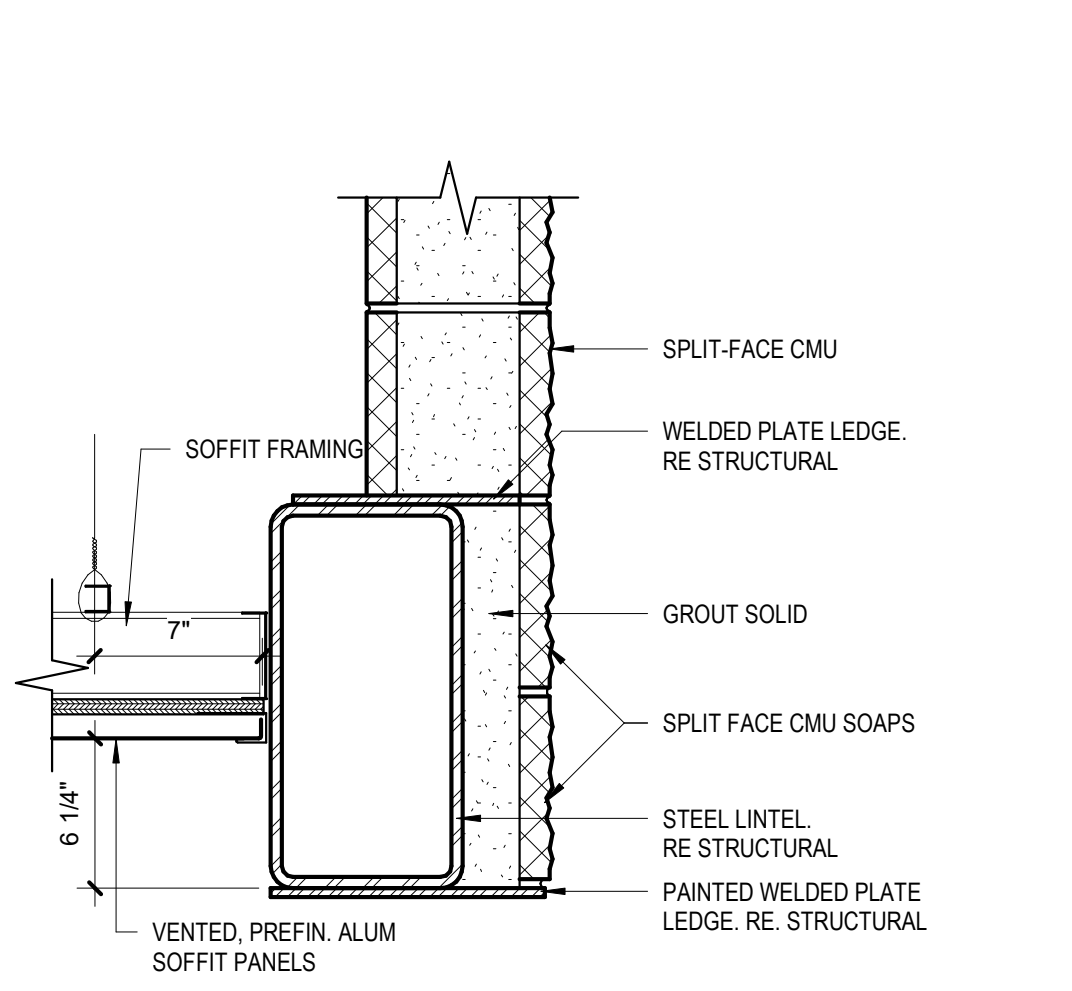
1 CMU PARAPET
1 1/2" = 1'-0"



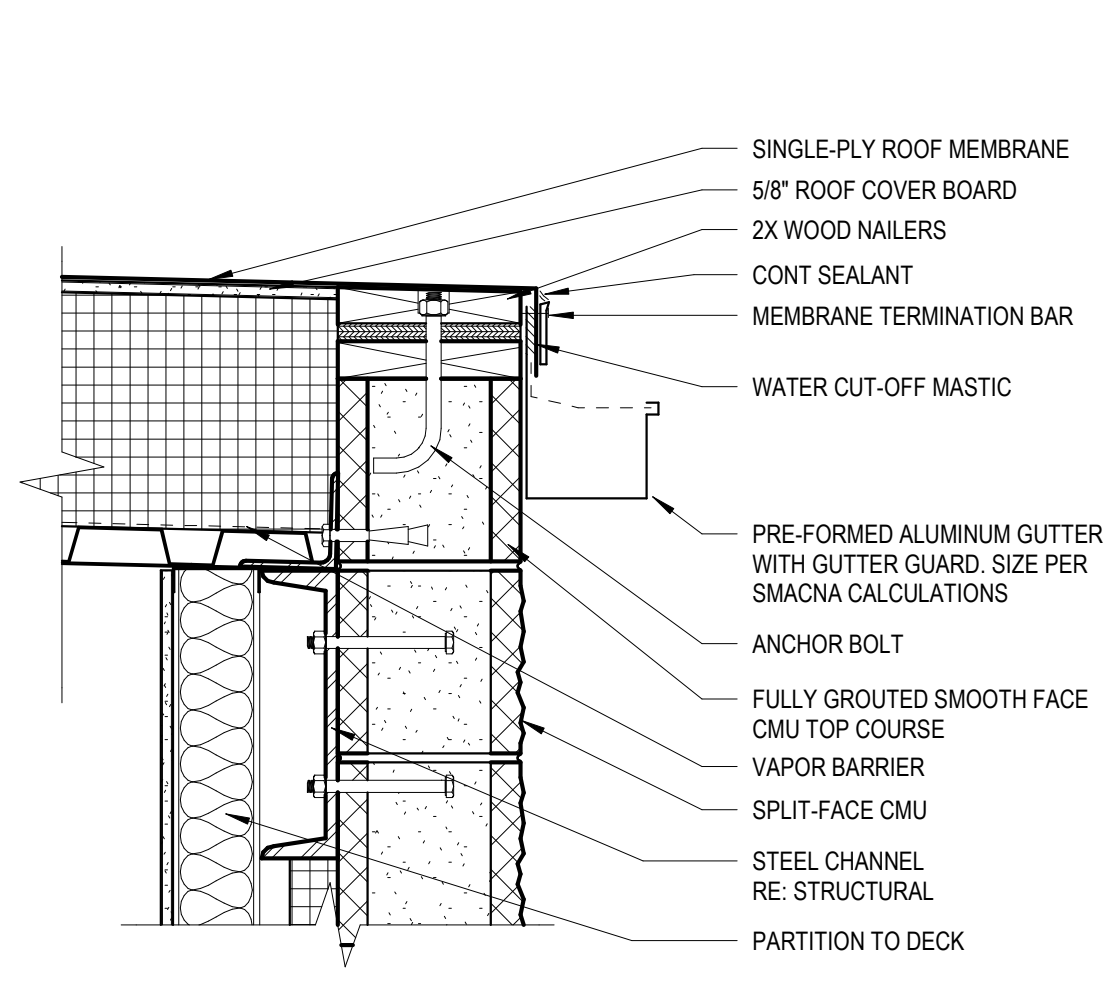
2 ROOF TO CMU WALL
1 1/2" = 1'-0"



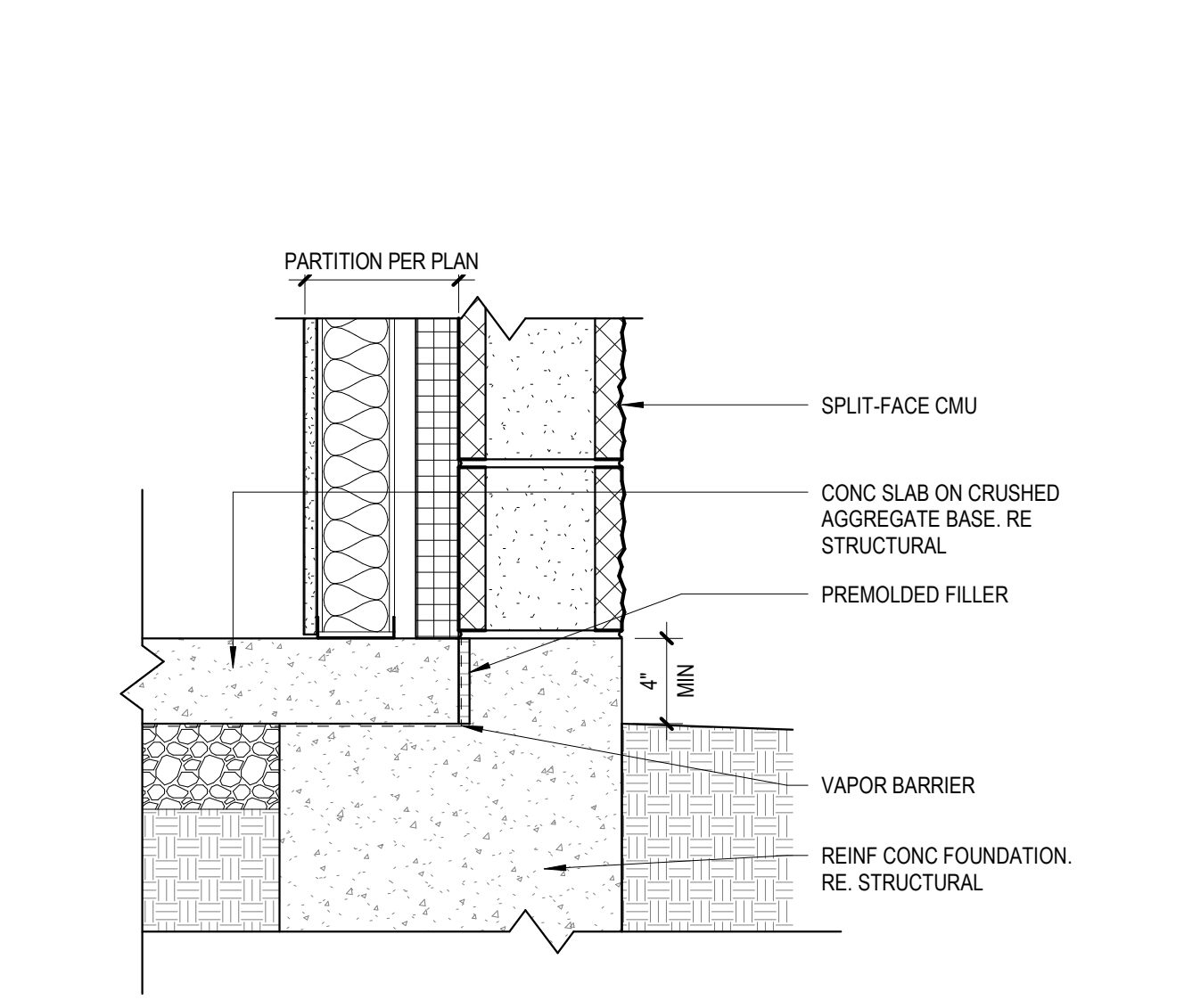
3 ENTRY NICHE SOFFIT AT WALL
1 1/2" = 1'-0"



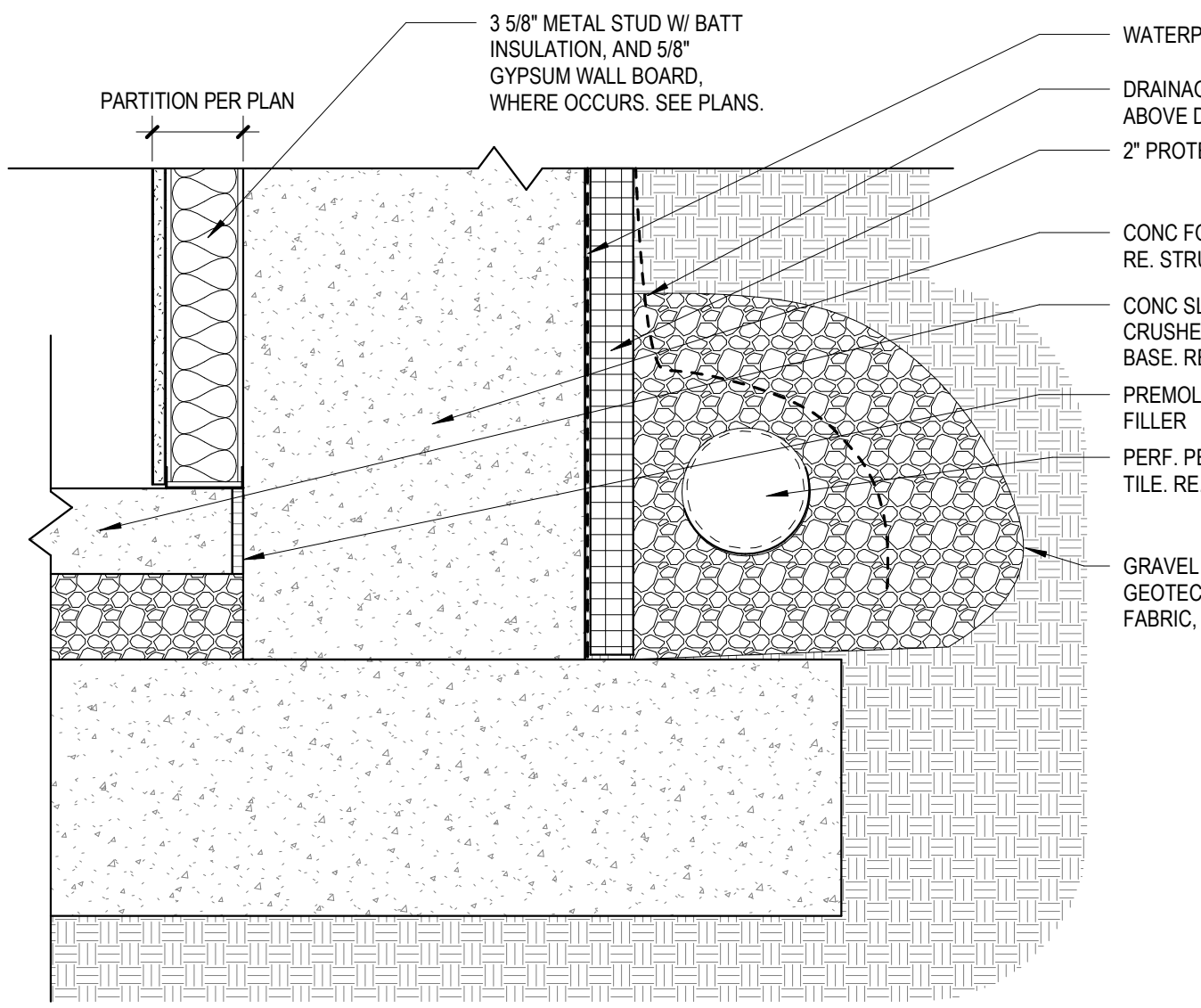
4 ENTRY NICHE SOFFIT
1 1/2" = 1'-0"



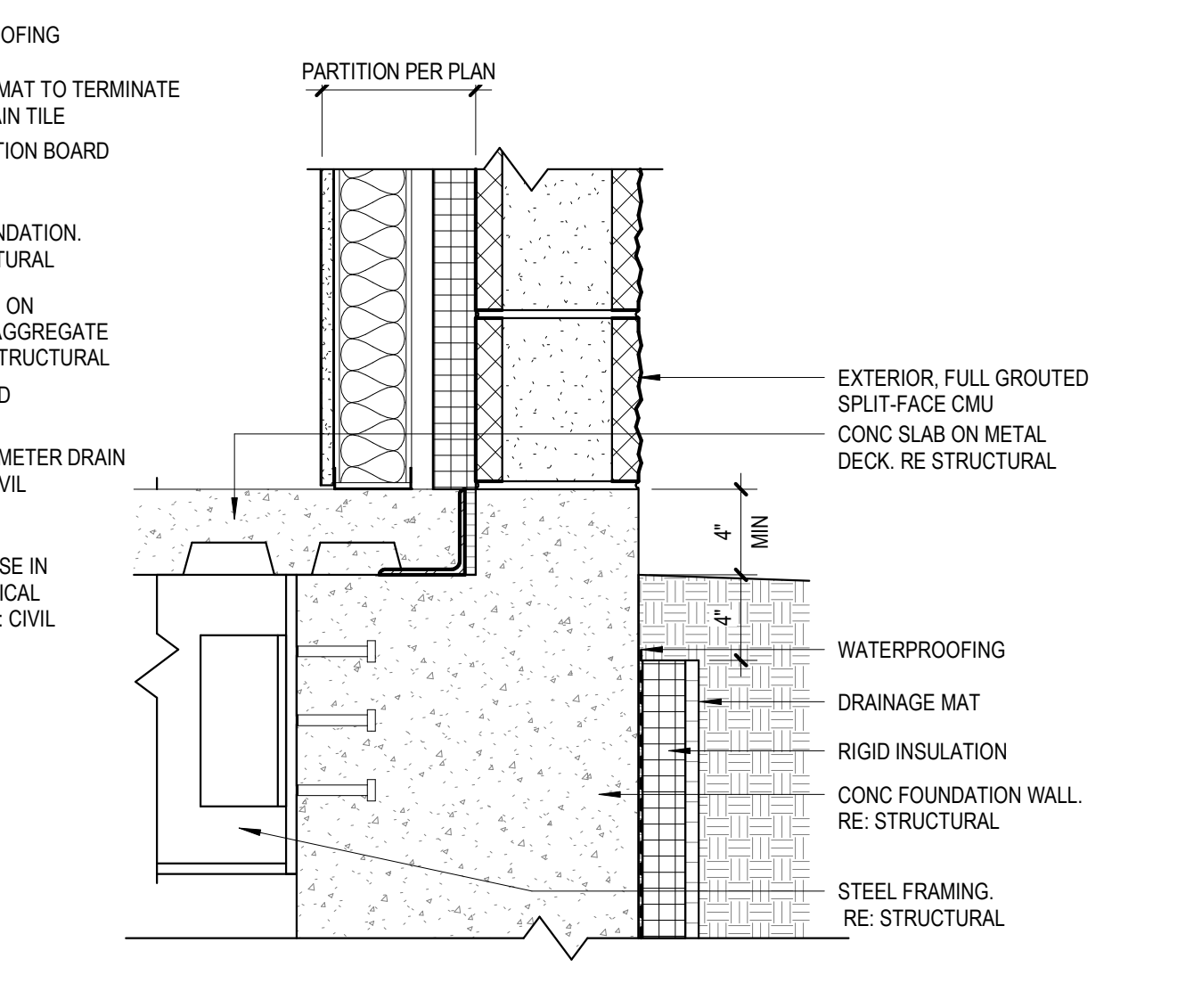
5 CMU ROOF EDGE WITH GUTTER
1 1/2" = 1'-0"



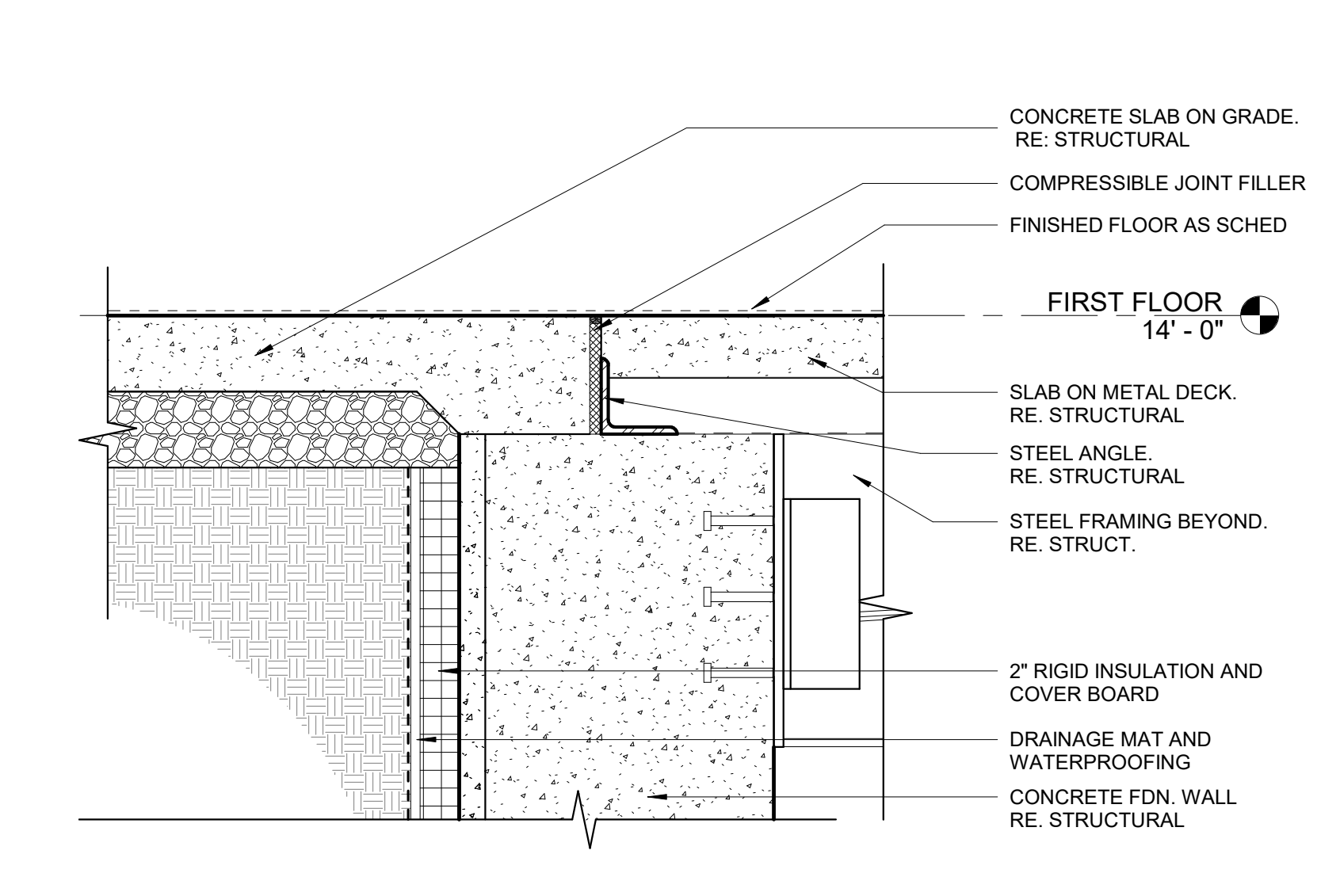
6 CMU WALL FOUNDATION AT GRADE
1 1/2" = 1'-0"



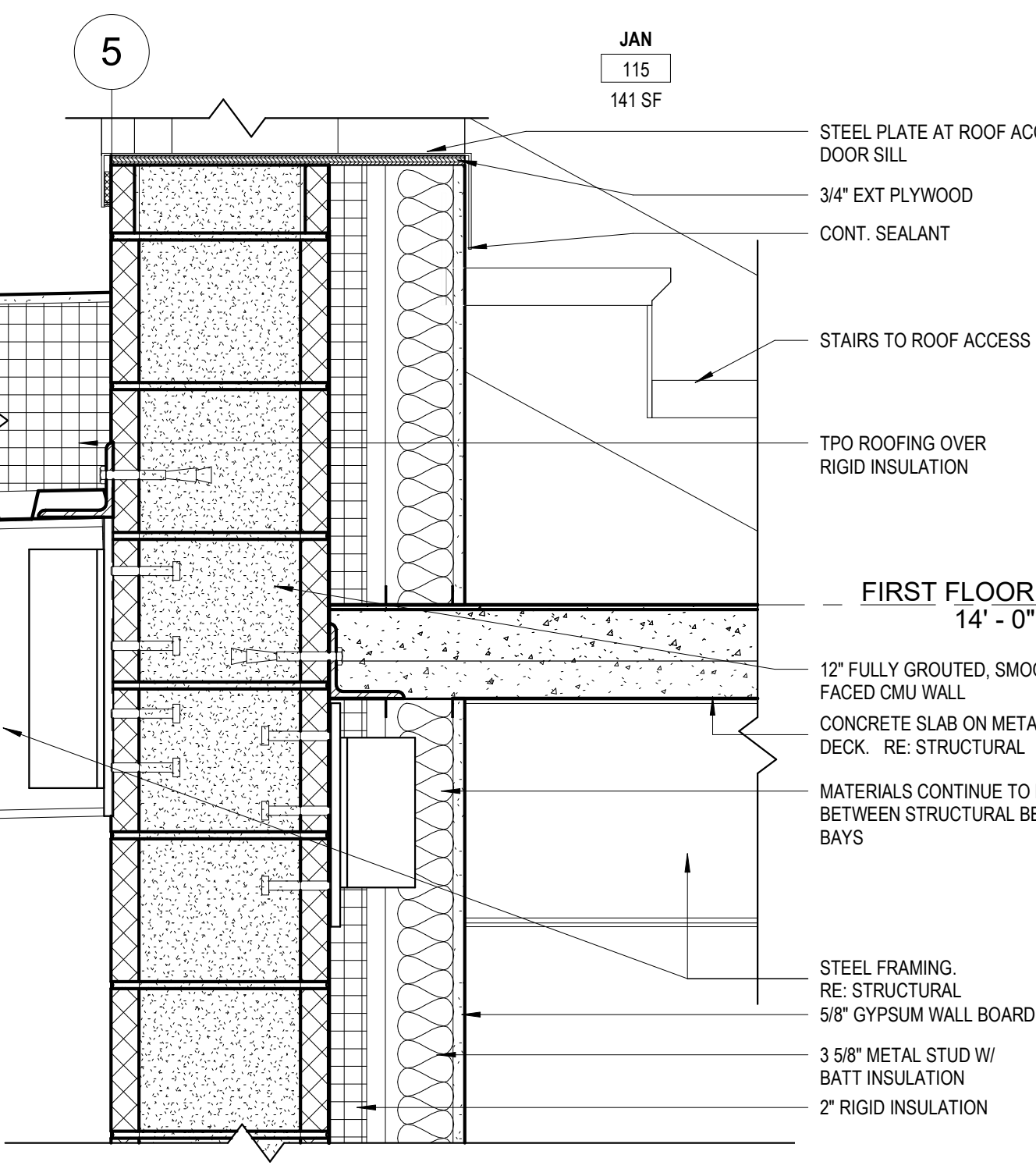
7 WALL FOUNDATION AT BASEMENT
1 1/2" = 1'-0"



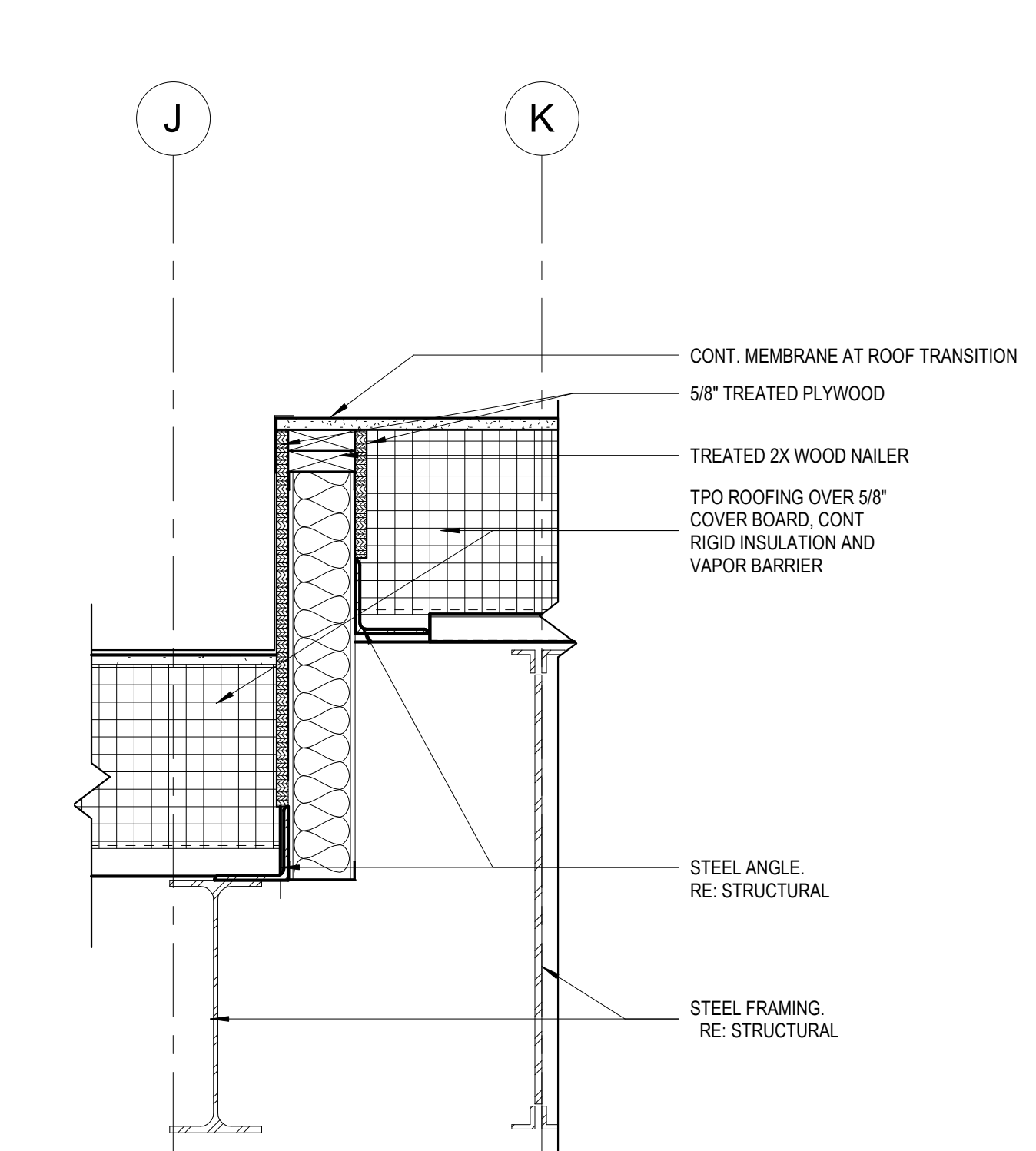
8 CMU WALL FOUNDATION AT BASEMENT
1 1/2" = 1'-0"



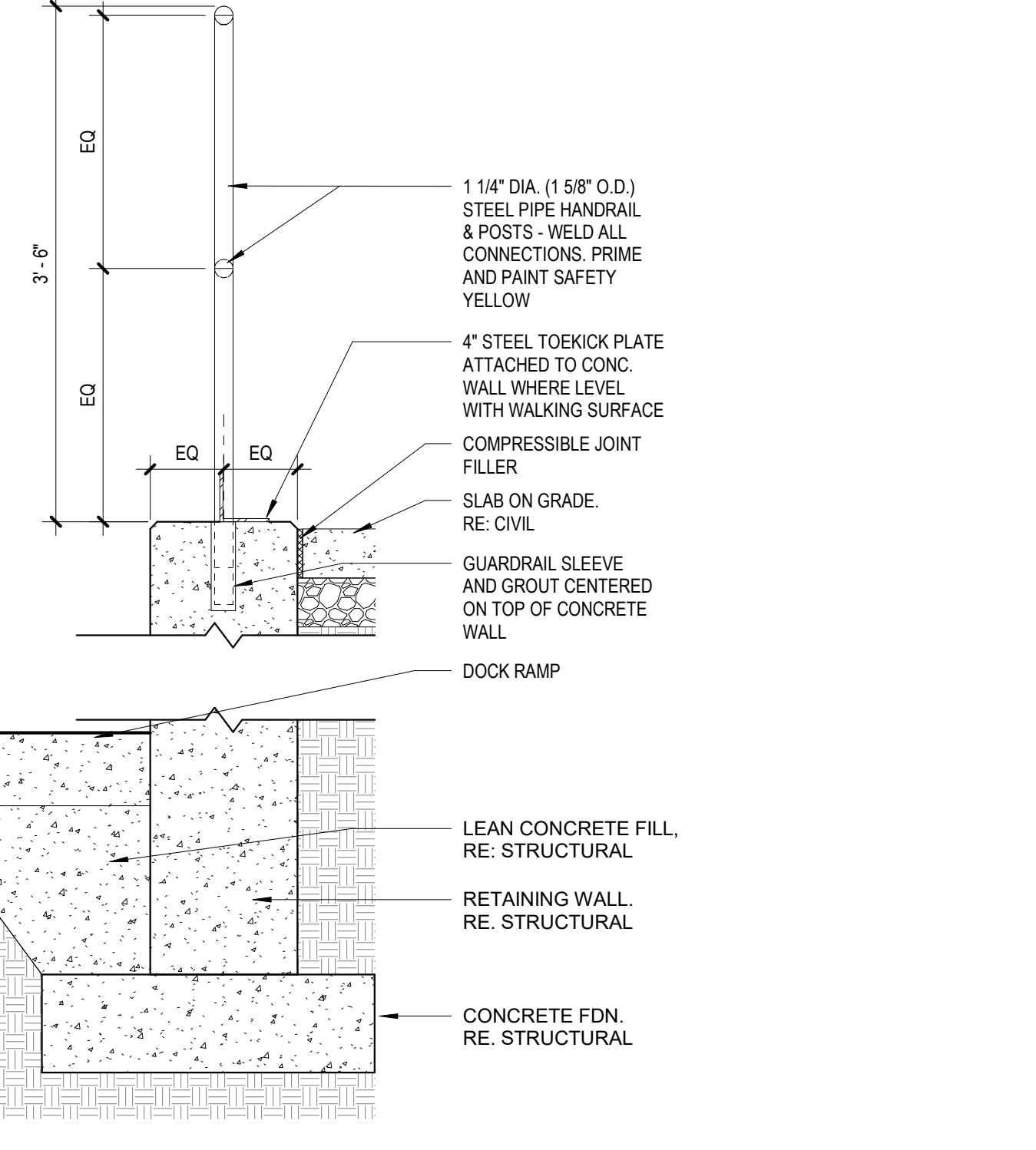
9 SLAB ON METAL DECK TO SLAB ON GRADE
1 1/2" = 1'-0"



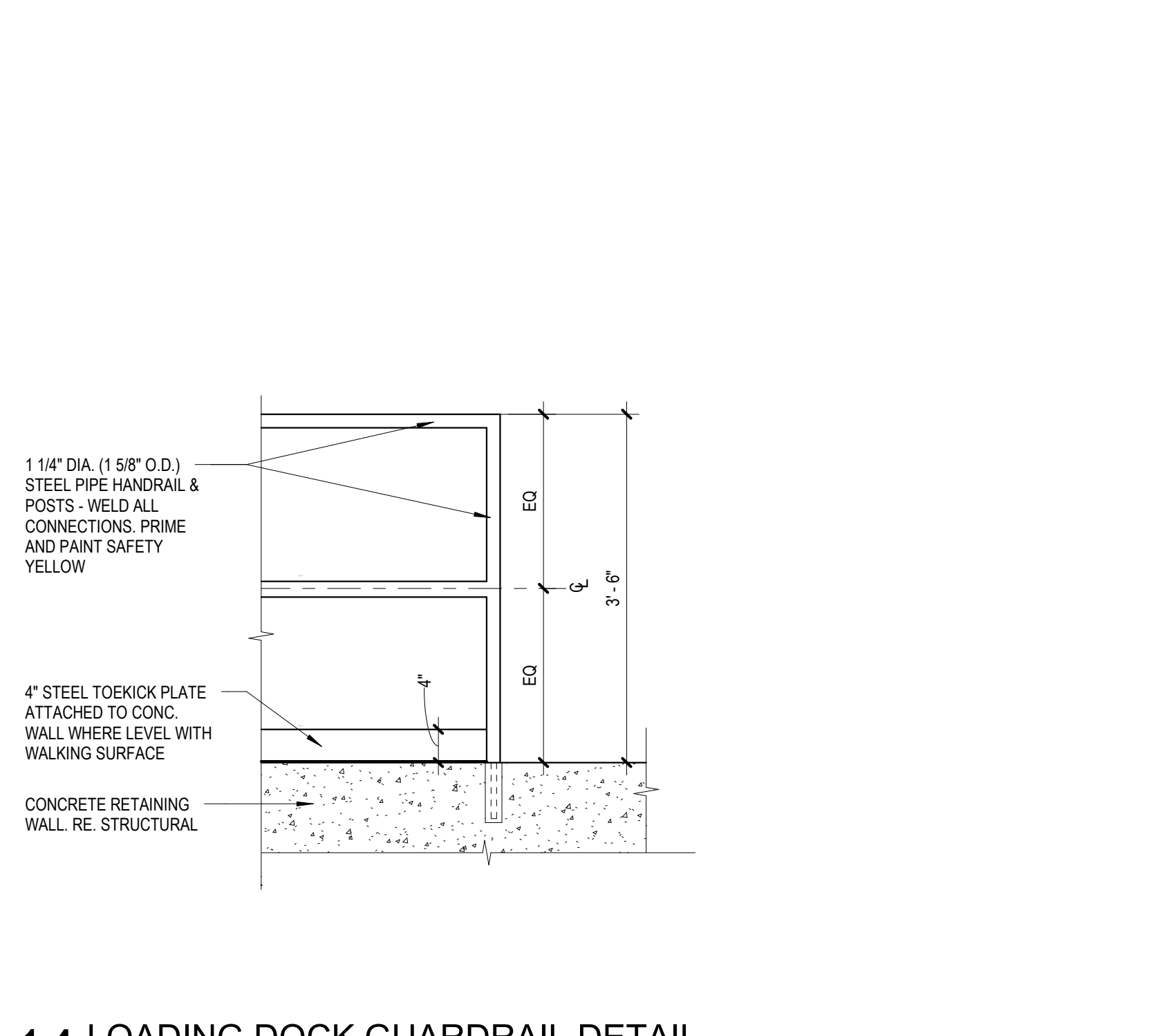
10 JANITOR ROOM
1 1/2" = 1'-0"



11 ROOF TRANSITION
1 1/2" = 1'-0"



13 GUARDRAIL AT LOADING DOCK
1" = 1'-0"



14 LOADING DOCK GUARDRAIL DETAIL
3/4" = 1'-0"



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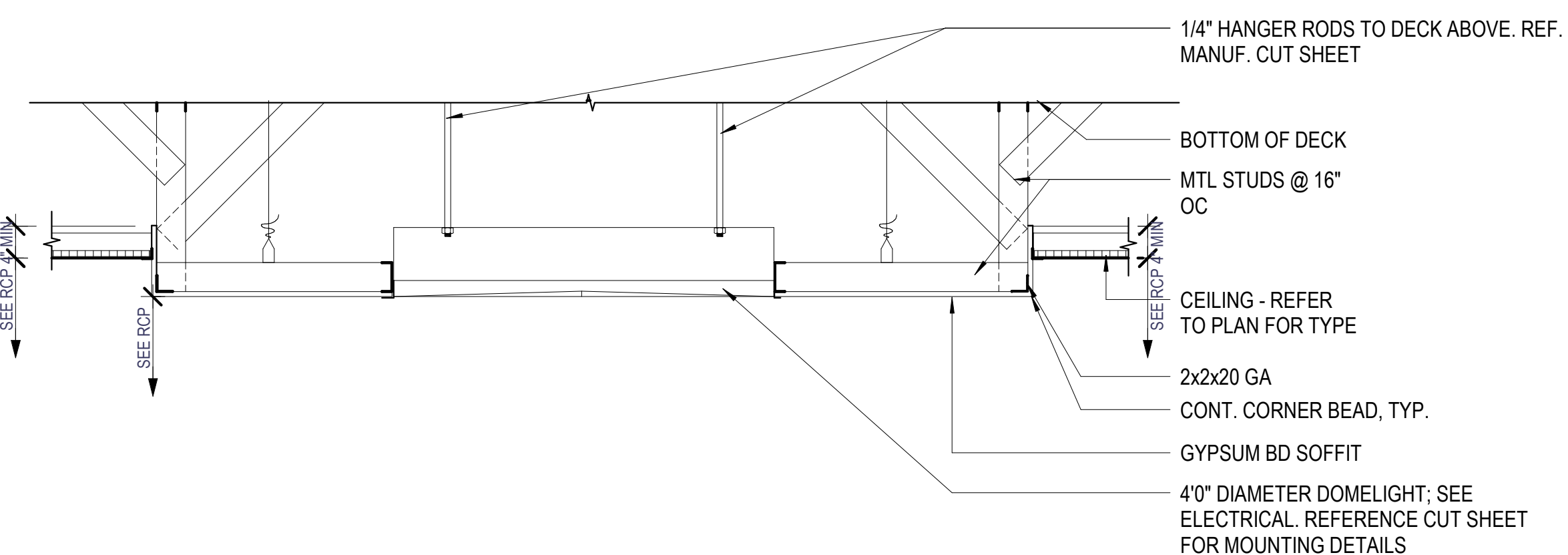
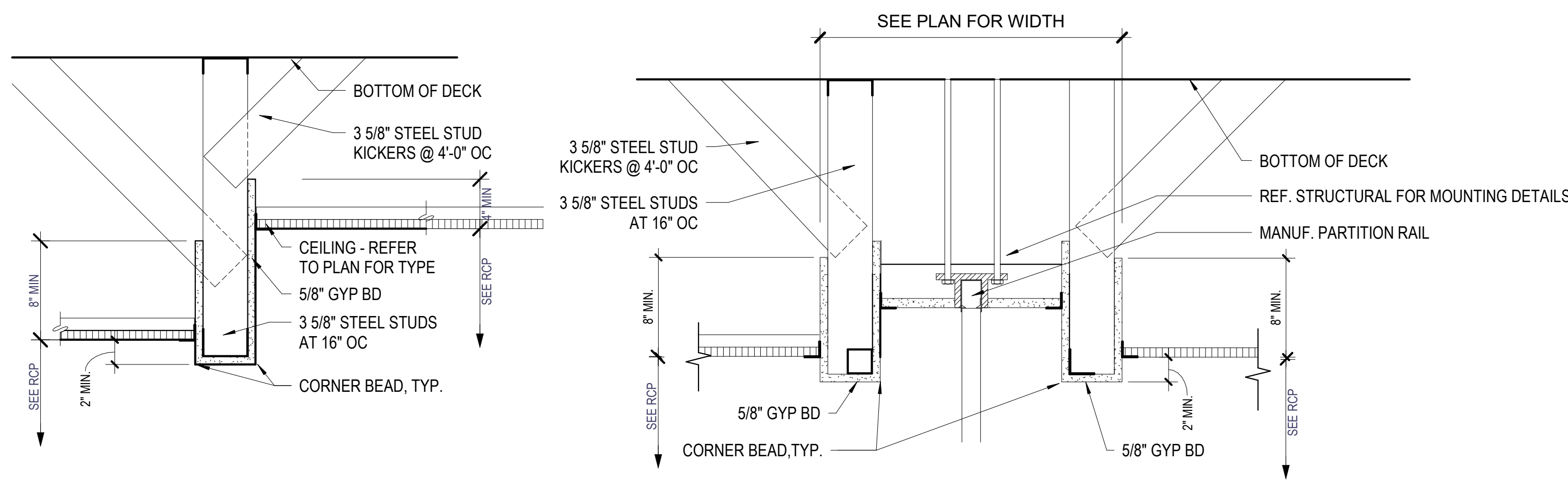
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SITE # 6322
FACILITY # 8136322001

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ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: CHS/EH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS
SHEET TITLE:
EXTERIOR DETAILS

SHEET NUMBER:
A501
142 OF 272 SHEETS
05/03/2024

CEILING DETAILS

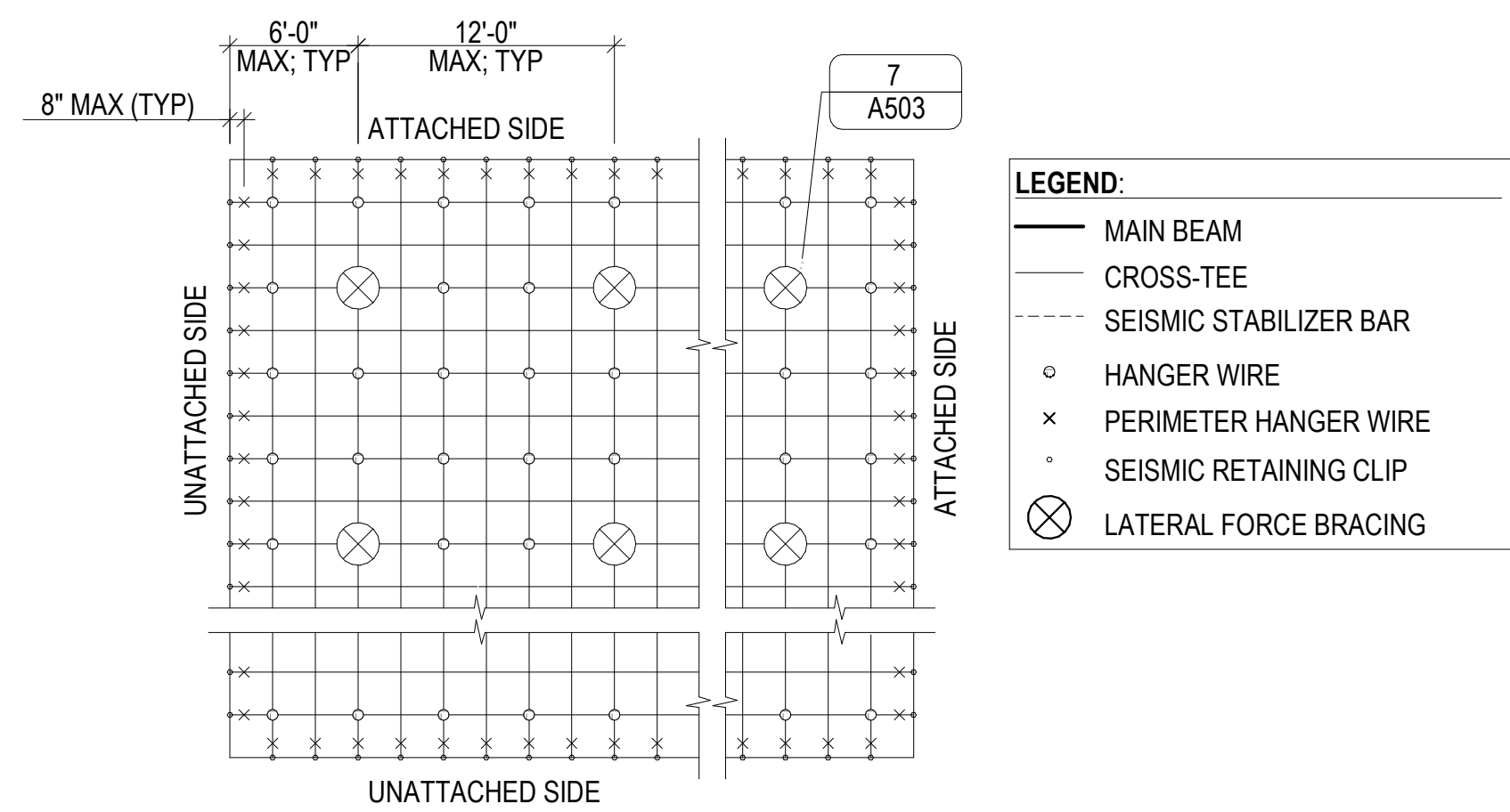


1 SECT - TYPICAL DROP BULKHEAD
1 1/2" = 1'-0"

2 SECT - TYPICAL WALL SOFFIT
1 1/2" = 1'-0"

3 LOBBY SOFFIT
3/4" = 1'-0"

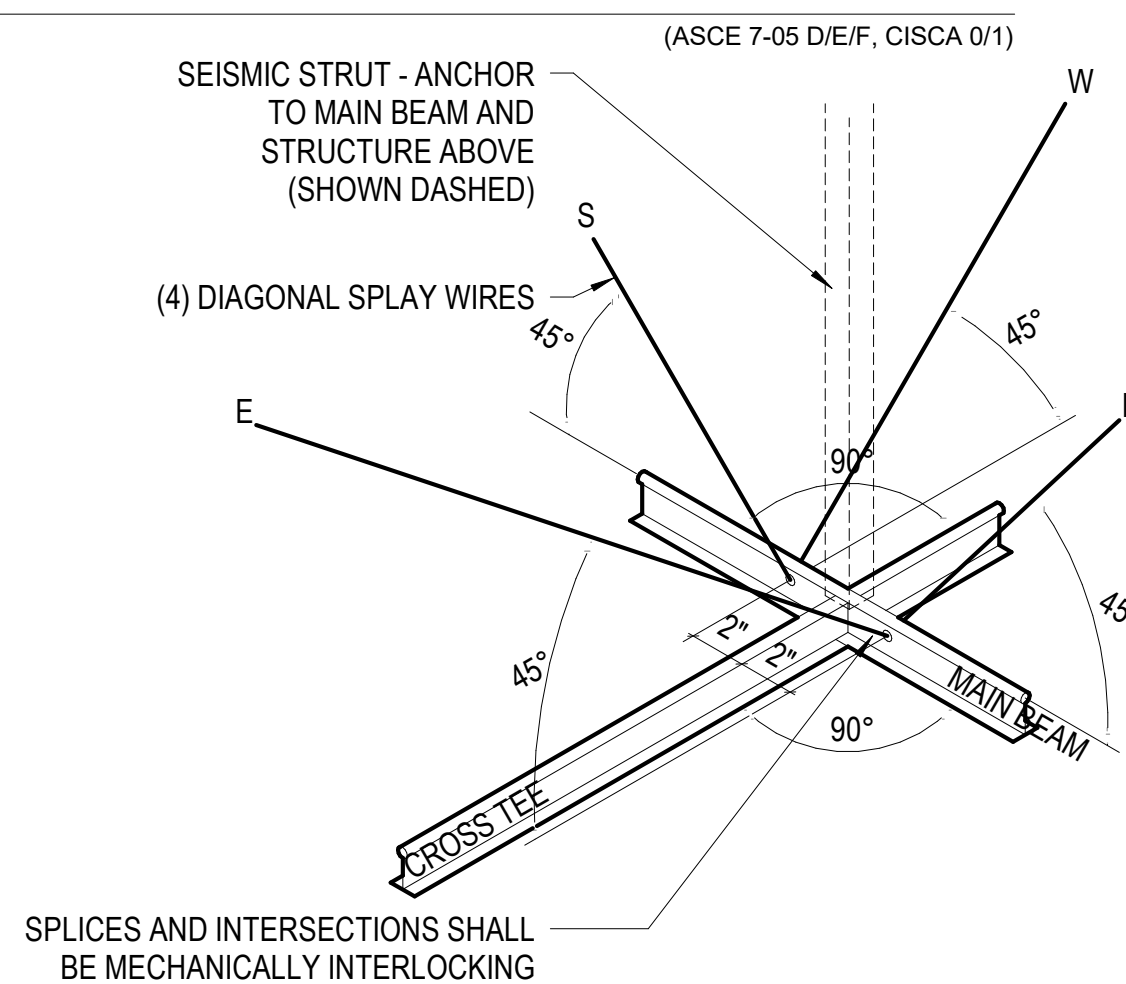
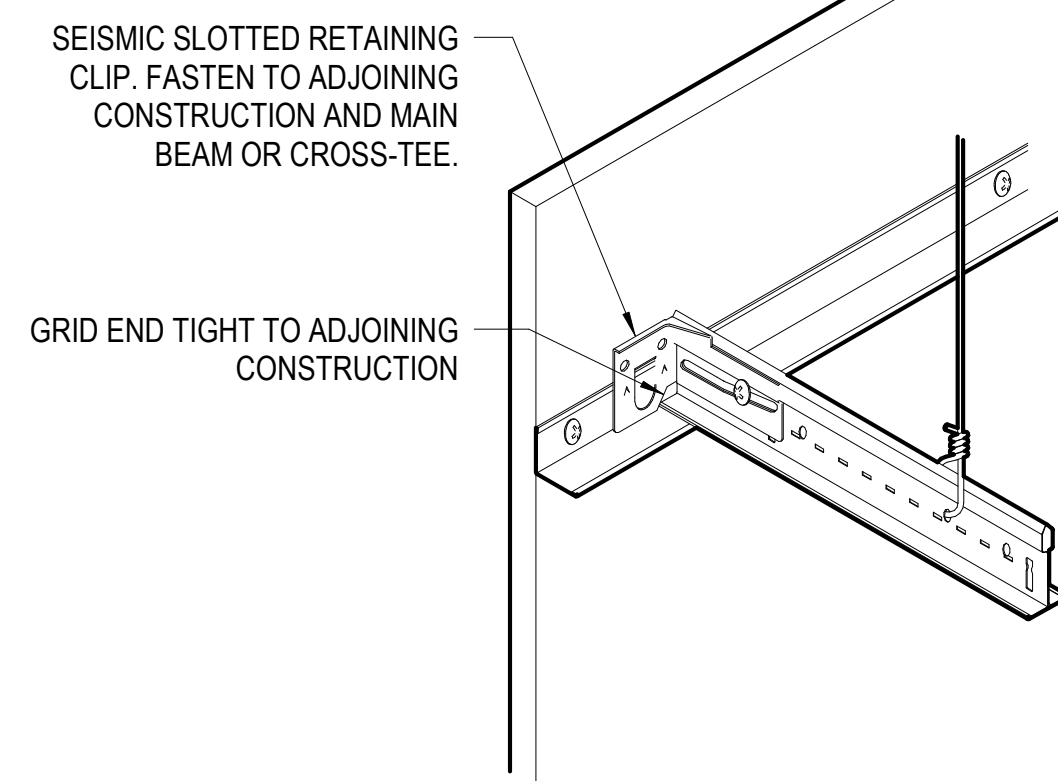
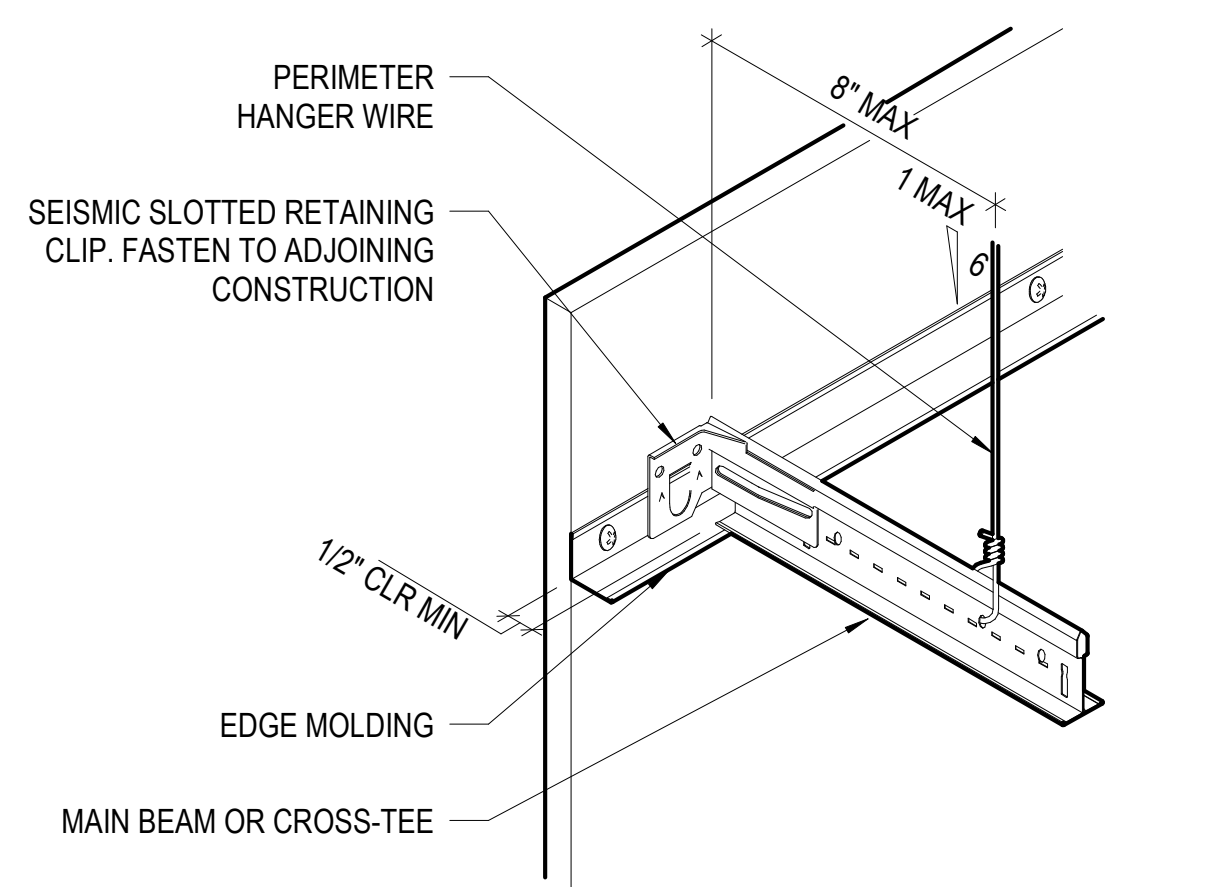
SEISMIC DETAILS



SUSPENDED CEILING GENERAL NOTES:

- HANGER WIRES: 4'-0" OC EACH WAY (MAX); NOT MORE THAN 6:1 OUT OF PLUMB UNLESS COUNTER SLOPING WIRES PROVIDED.
- PARTITION ATTACHMENT: CEILING SYSTEM MAY NOT BE USED TO SUPPORT WALLS OR PARTITIONS.
- PERIMETER CLOSURE: EDGE MOLDING, 7/8" WIDE (MIN), UNLESS OTHERWISE SCHEDULED.
- SEISMIC DESIGN CRITERIA: COMPLY WITH ASCE 7-05 SECTION 13.5.6 (SEISMIC DESIGN CATEGORY-D/E/F) AND CISCA - RECOMMENDATIONS FOR DIRECT-HUNG ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS (SEISMIC ZONES 3-4). NOTE THAT THE FOLLOWING DOES NOT APPLY TO CEILING AREAS OF 144 SF OR LESS SURROUNDED BY PARTITIONS THAT CONNECT DIRECTLY TO THE STRUCTURE ABOVE.
 - PERIMETER CLOSURE CLEARANCE: 1/2" CLEARANCE BETWEEN END OF GRID AND ADJOINING CONSTRUCTION ON 2-SIDES; END OF GRID TIGHT TO ADJOINING CONSTRUCTION ON THE OTHER 2-SIDES.
 - PERIMETER SUPPORT: PROVIDE PERIMETER HANGER WIRES AT ENDS OF MAIN BEAMS AND CROSS-TEES AT 8" (MAX) FROM EACH WALL OR CHANGE IN PLANE.
 - PERIMETER SPACERS: PROVIDE SLOTTED RETAINING CLIP AT ENDS OF MAIN BEAMS AND CROSS-TEES. ANCHOR CLIP TO ADJOINING CONSTRUCTION ON EACH SIDE; ANCHOR CLIP TO BEAMS AND TEES ON 2-SIDES (ATTACHED SIDE).
 - LATERAL FORCE BRACING: PROVIDE SPLAY WIRE BRACING CLUSTERS OF 4-WIRES ATTACHED TO MAIN BEAM WITHIN 2" OF CROSS-TEE INTERSECTION. WIRES ARRAYED AT 90-DEG FROM EACH OTHER AND AT ANGLE NOT GREATER THAN 45-DEG FROM PLANE OF CEILING. PROVIDE SEISMIC STRUT ATTACHED MAIN BEAMS AND STRUCTURE ABOVE AT EACH LATERAL FORCE BRACING LOCATION. RIGID BRACING AND SEISMIC STRUT MAY BE USED IN LIEU OF SPLAY WIRES AND SEISMIC STRUT. CONTINUOUS CEILING AREA NOT TO EXCEED 2,500SF. LATERAL FORCE BRACING IS NOT REQUIRED AT CEILING AREAS LESS THAN 1,000 SF.
 - PENETRATIONS: CEILING PENETRATIONS (COLUMNS, WALLS, SPRINKLERS, ETC.) AND INDEPENDENTLY SUPPORTED FIXTURES OR SERVICES ARE TO BE TREATED AS PERIMETER CLOSURES AND SHALL MAINTAIN CLEARANCE AT END OF GRID WITH SUITABLE ESCUTCHEONS OR CLOSURES. EXCEPT WHEN RIGID BRACING AND SEISMIC STRUTS ARE USED, PROVIDE SPRINKLER HEADS AND OTHER PENETRATIONS WITH 2" OVER-SIZE ESCUTCHEON, SLEEVE, OR ADAPTER THROUGH THE CEILING PANEL TO ALLOW 1" FREE MOVEMENT IN ALL HORIZONTAL DIRECTIONS.
 - FIXTURES AND SERVICES: REFER TO MEP/FP DOCUMENTS AND CISCA REQUIREMENTS FOR SUPPORT OF LIGHT FIXTURES AND OTHER SERVICES WITHIN THE CEILING.

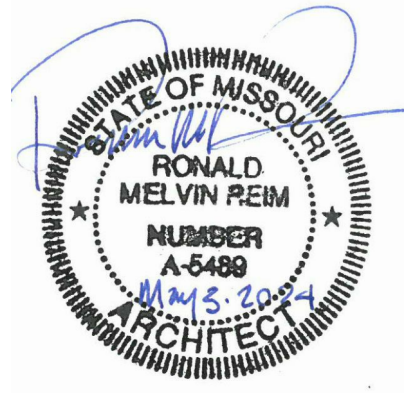
4 PLAN - CEILING SUSPENSION DIAGRAM AND SEISMIC CRITERIA
1/8" = 1'-0"



5 ISOMETRIC - UNATTACHED SIDE
3" = 1'-0" (ASCE 7-05 D/E/F, CISCA 3/4)

6 ISOMETRIC - ATTACHED SIDE
3" = 1'-0" (ASCE 7-05 D/E/F, CISCA 3/4)

7 ISOMETRIC-LATERAL FORCE BRACING
1 1/2" = 1'-0" (ASCE 7-05 D/E/F, CISCA 3/4)



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CAD DWG FILE: _____
DRAWN BY: JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
**CEILING AND SOFFIT
DETAILS**

SHEET NUMBER:

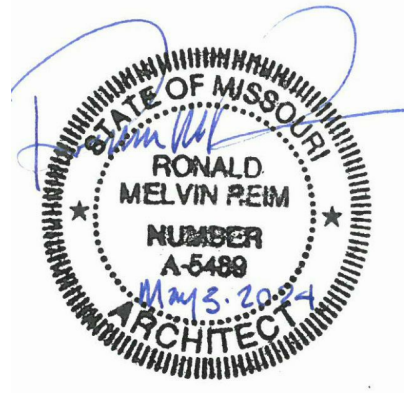
A502

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05/03/2024

SHEET NOTES

1. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION ON FLASHING OF ROOF EQUIPMENT.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



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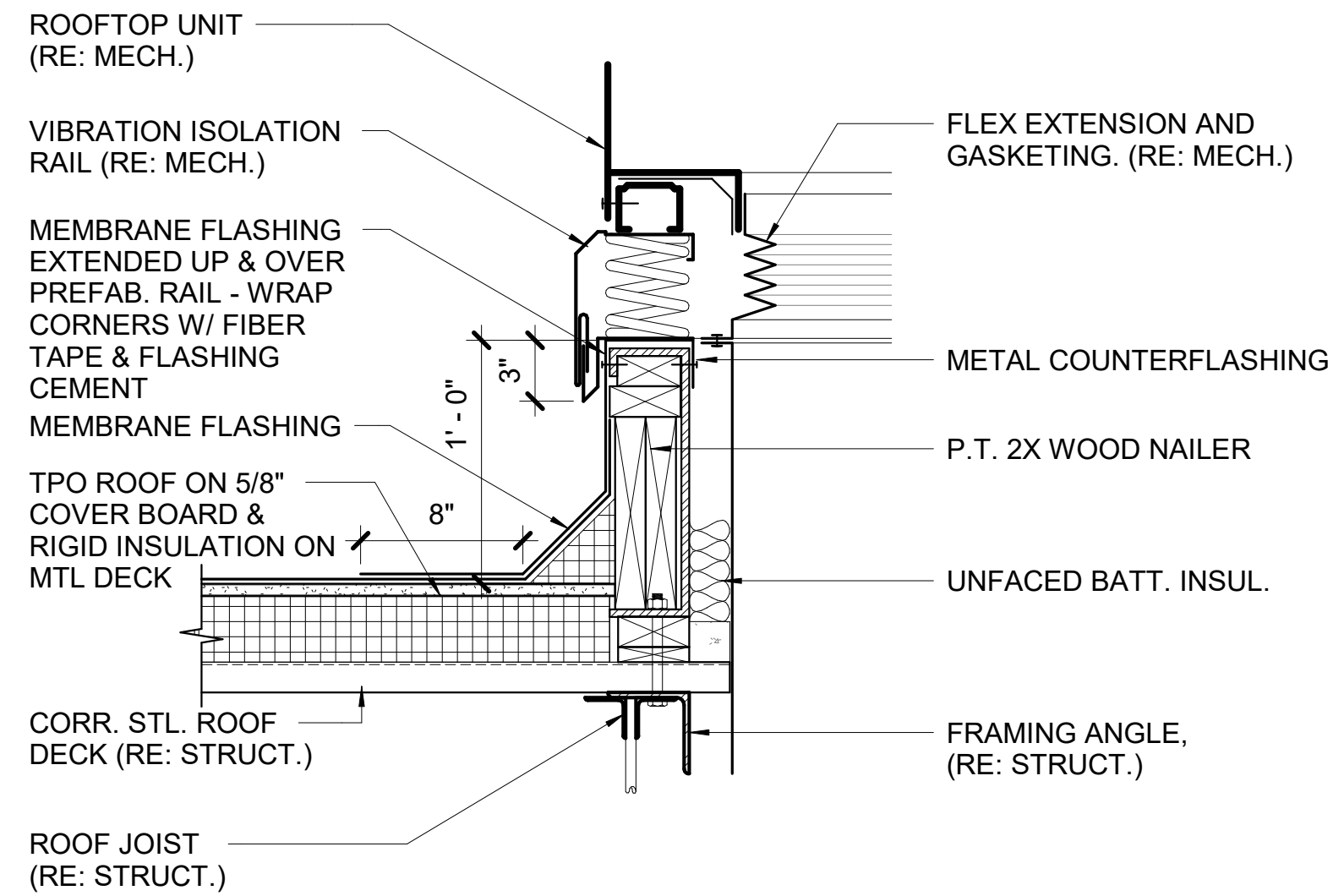
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DRAWN BY: JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
ROOFING DETAILS

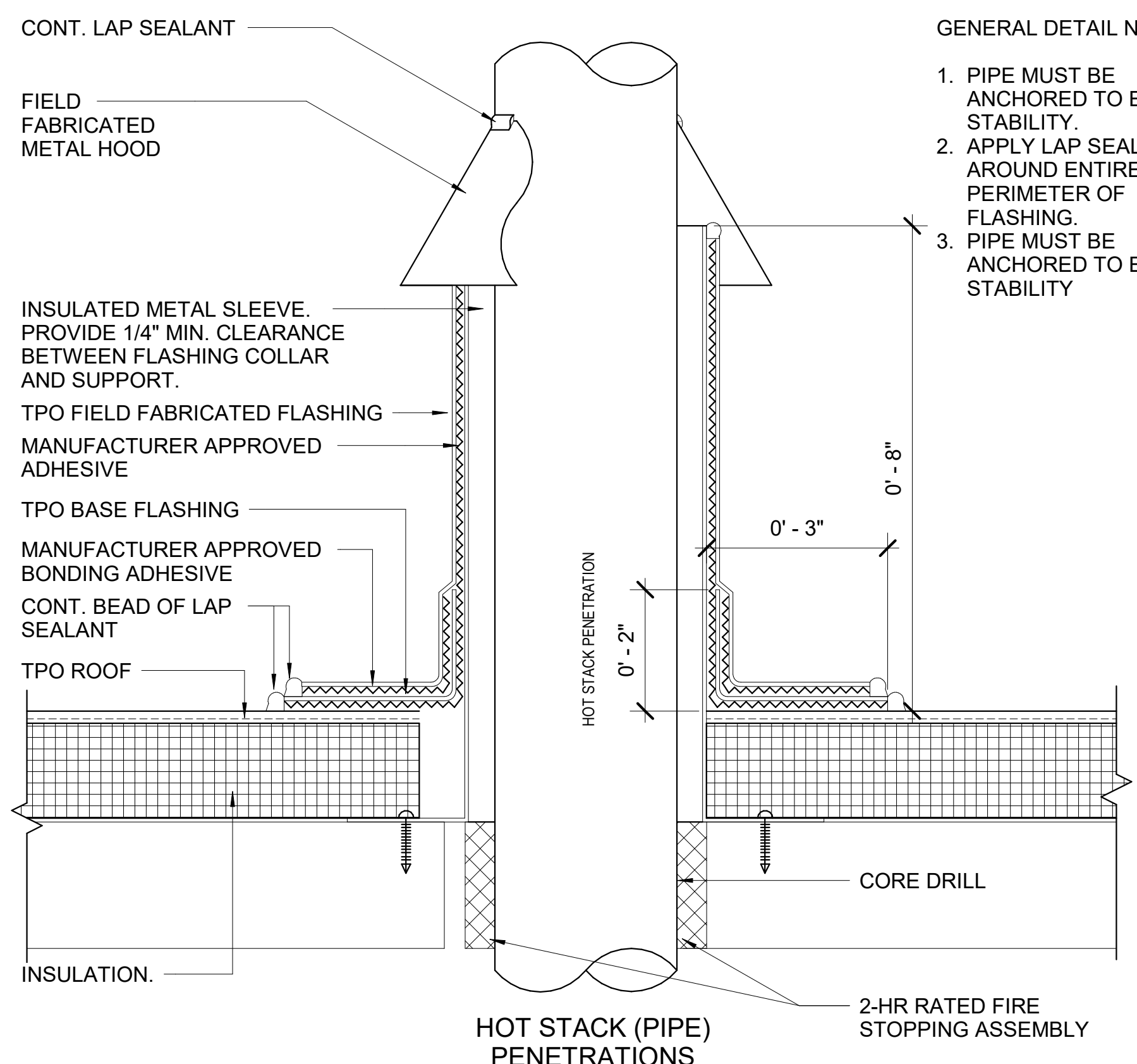
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144 OF 272 SHEETS
05/03/2024

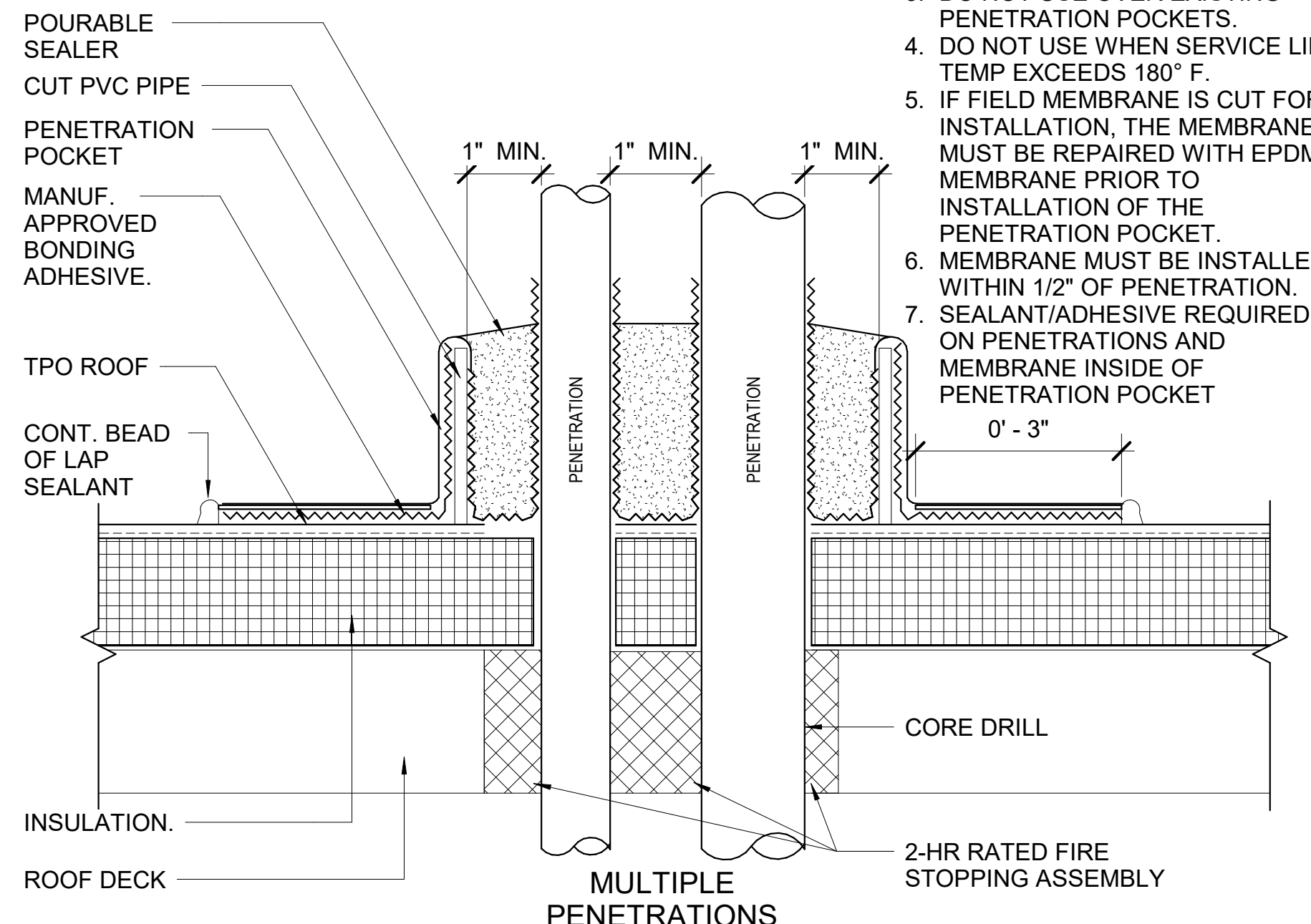


2 ROOF DETAIL AT PREFAB CURB
1 1/2" = 1'-0"

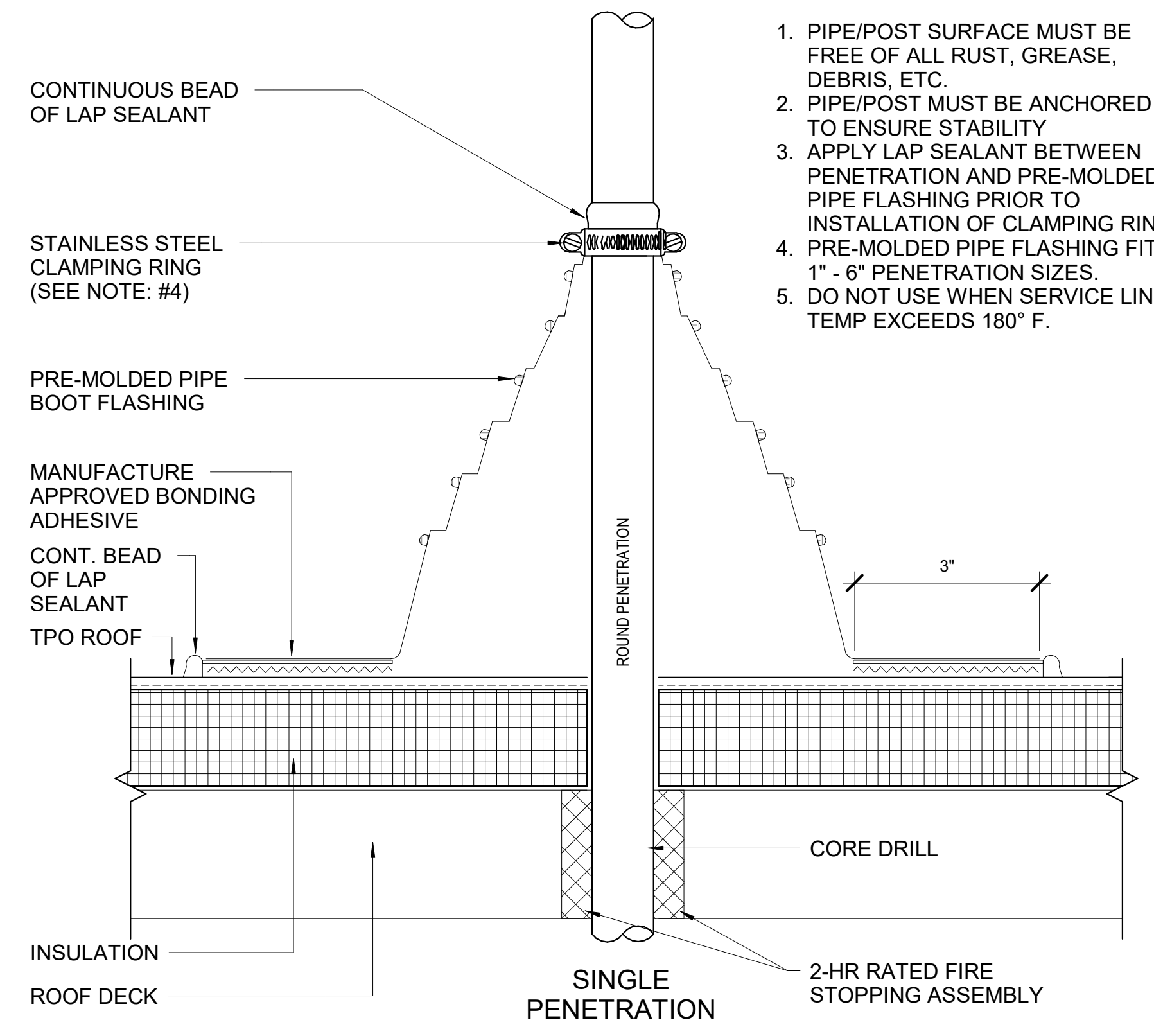


- GENERAL DETAIL NOTES:
1. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
 2. APPLY LAP SEALANT AROUND ENTIRE PERIMETER OF FLASHING.
 3. PIPE MUST BE ANCHORED TO ENSURE STABILITY

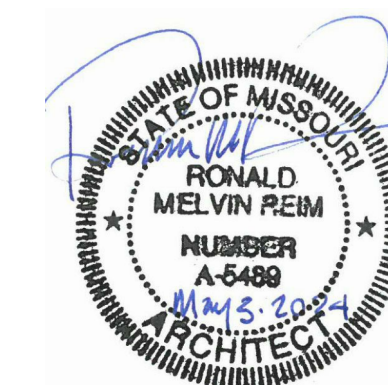
- GENERAL DETAIL NOTES:
1. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, DEBRIS, ETC.
 2. POURABLE SEALER MOUNDED TO SHED WATER, (MINIMUM DEPTH OF 2") REMAINDER OF POCKET MAY BE FILLED WITH NON-SHRINKING GROUT.
 3. DO NOT USE OVER EXISTING PENETRATION POCKETS.
 4. DO NOT USE WHEN SERVICE LINE TEMP EXCEEDS 180° F.
 5. IF FIELD MEMBRANE IS CUT FOR INSTALLATION, THE MEMBRANE MUST BE REPAIRED WITH EPDM MEMBRANE PRIOR TO INSTALLATION OF THE PENETRATION POCKET.
 6. MEMBRANE MUST BE INSTALLED WITHIN 1/2" OF PENETRATION.
 7. SEALANT/ADHESIVE REQUIRED ON PENETRATIONS AND MEMBRANE INSIDE OF PENETRATION POCKET



- GENERAL DETAIL NOTES:
1. PIPE/POST SURFACE MUST BE FREE OF ALL RUST, GREASE, DEBRIS, ETC.
 2. PIPE/POST MUST BE ANCHORED TO ENSURE STABILITY
 3. APPLY LAP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING
 4. PRE-MOLDED PIPE FLASHING FITS 1" - 6" PENETRATION SIZES.
 5. DO NOT USE WHEN SERVICE LINE TEMP EXCEEDS 180° F.



1 ROOFING DETAIL - PENETRATION DETAILS
6" = 1'-0"



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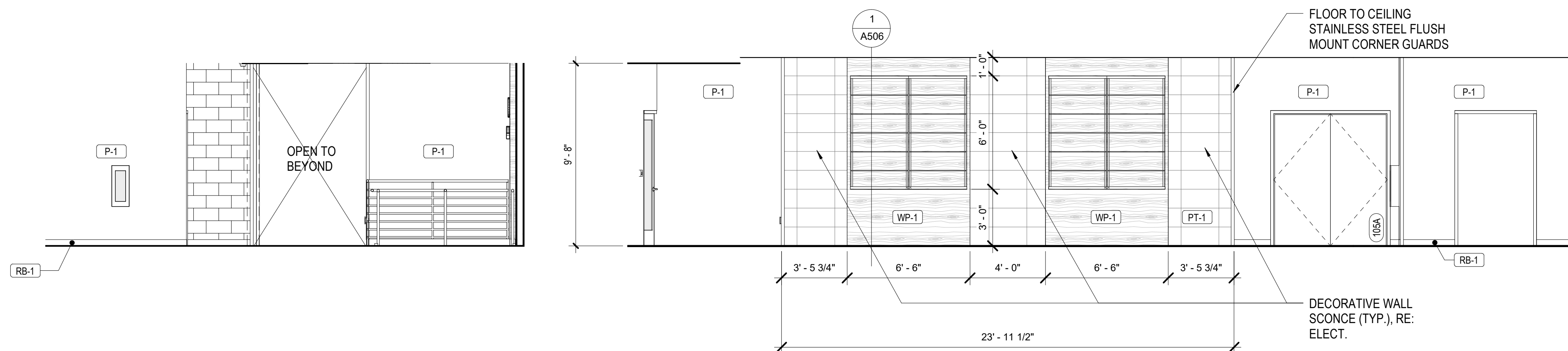
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DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:

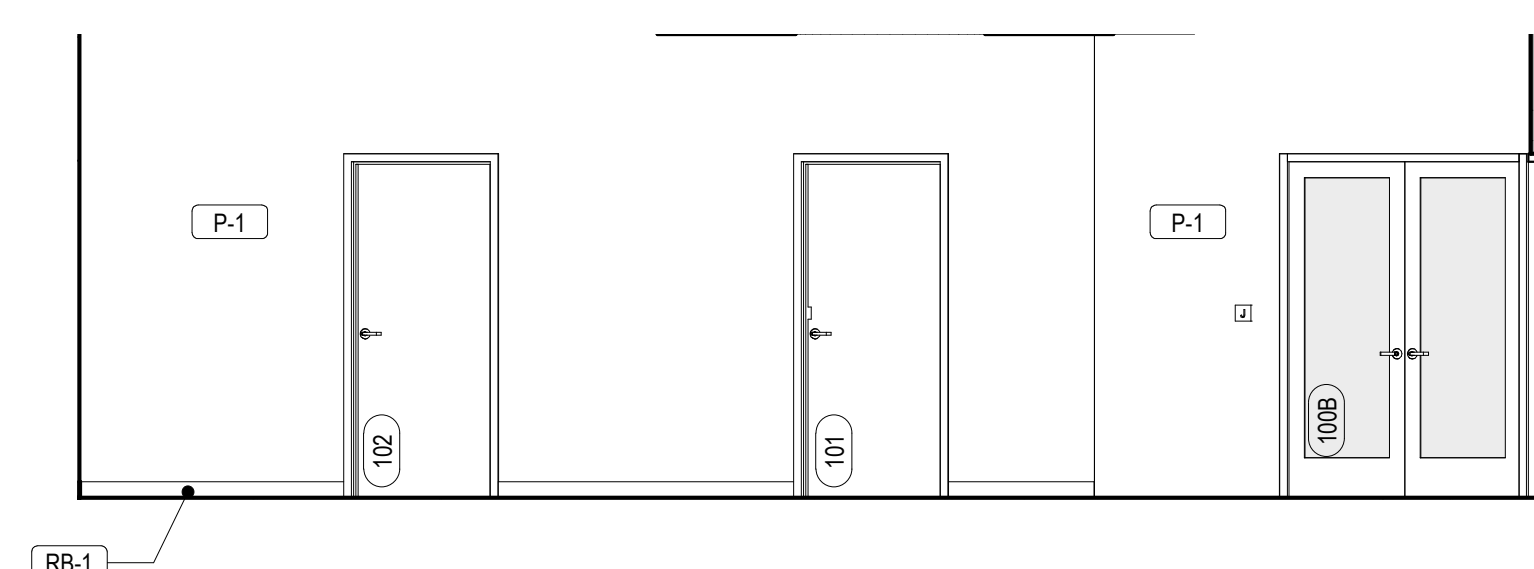
A504

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05/03/2024



4 LOBBY - WEST
1/4" = 1'-0"

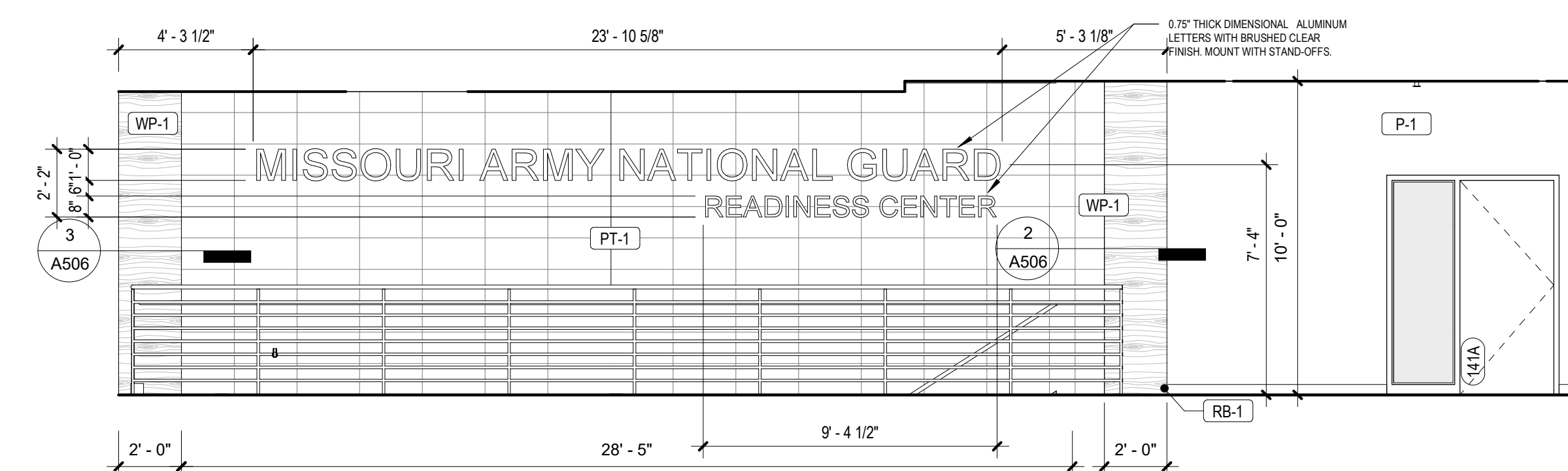
2 LOBBY - SOUTH
1/4" = 1'-0"



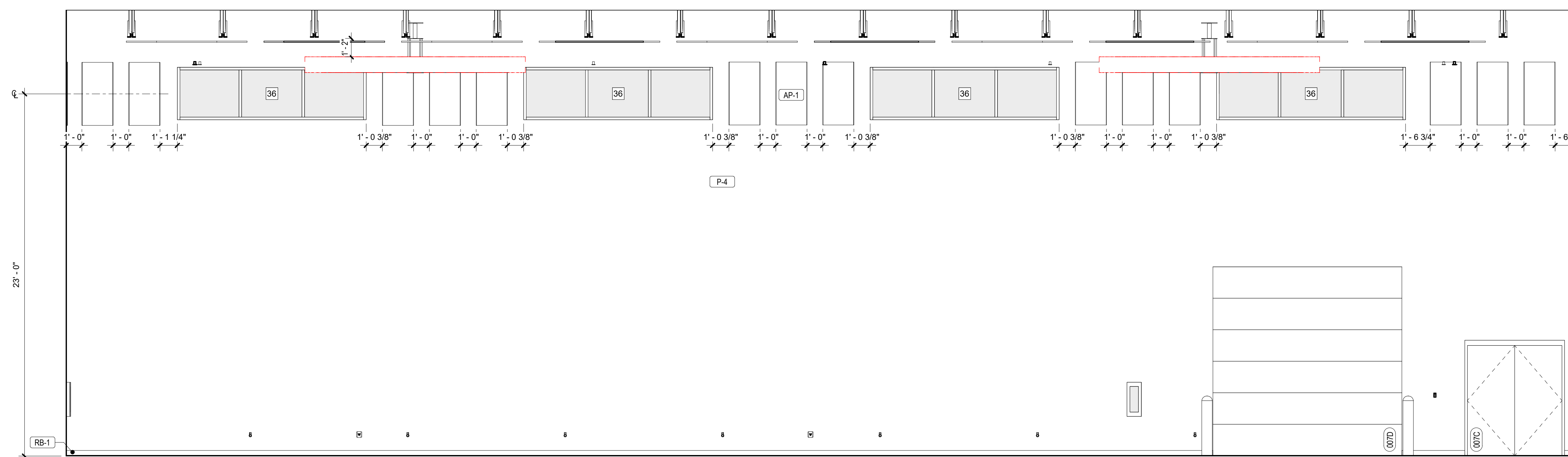
1 LOBBY - EAST
1/4" = 1'-0"



5 STAIR GUARDRAIL - EAST
1/4" = 1'-0"



3 LOBBY SIGNAGE - NORTH
1/4" = 1'-0"



7 ASSEMBLY HALL - SOUTH
1/4" = 1'-0"



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(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
www.oatesassociates.com



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ST. LOUIS, MO 63119
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F: 314.918.1766
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CONSTRUCT
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READINESS CENTER

10625 LEWIS & CLARK
BLVD, ST. LOUIS, MO
63136

PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

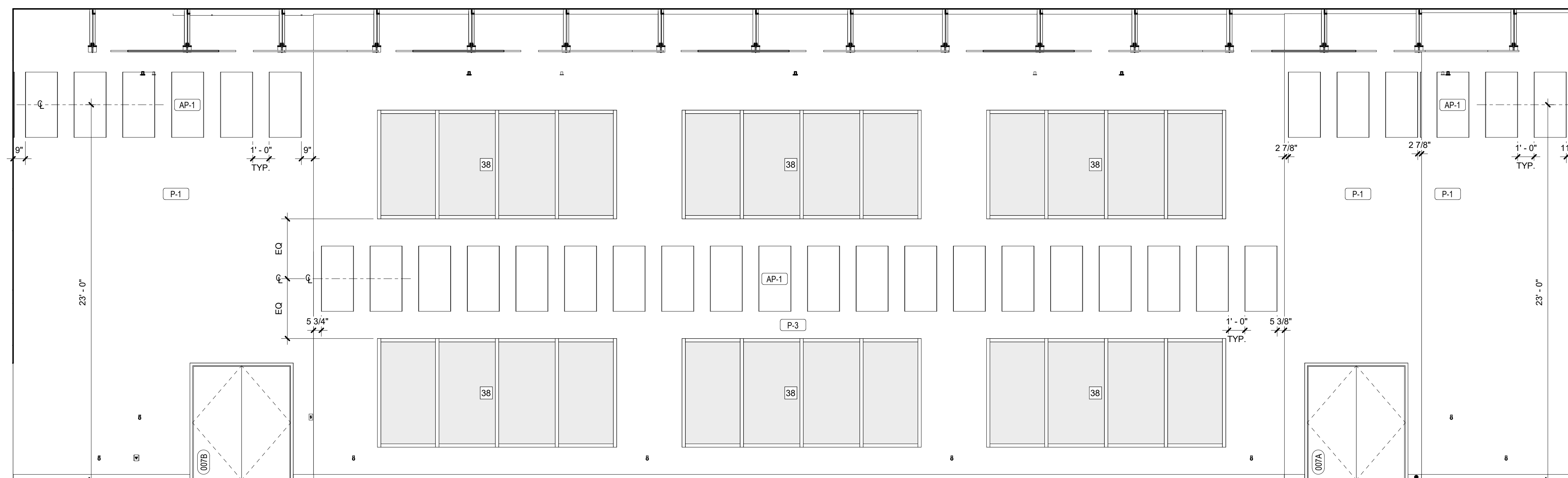
CAD DWG FILE: _____
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
INTERIOR
ELEVATIONS

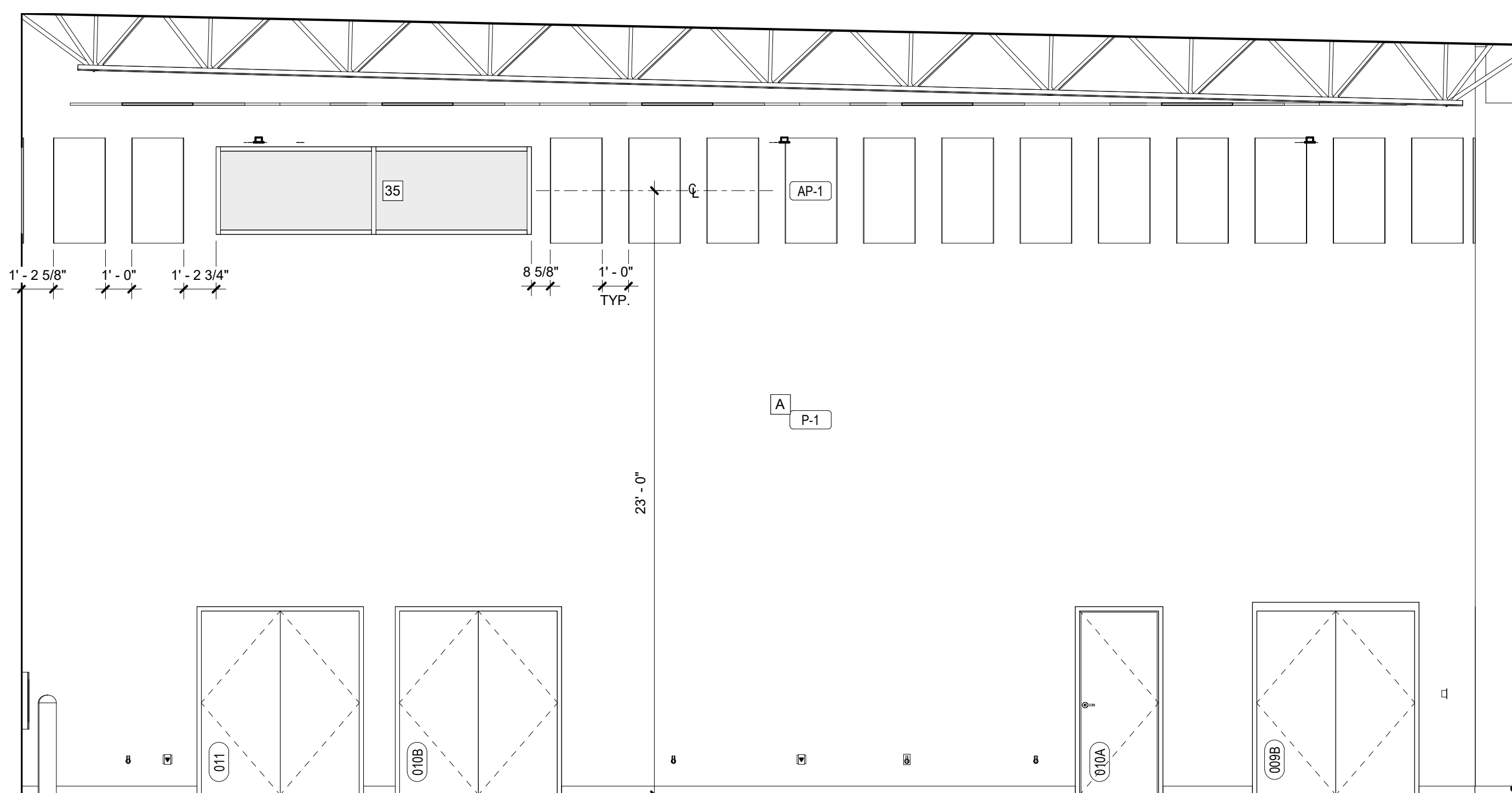
SHEET NUMBER:

A505

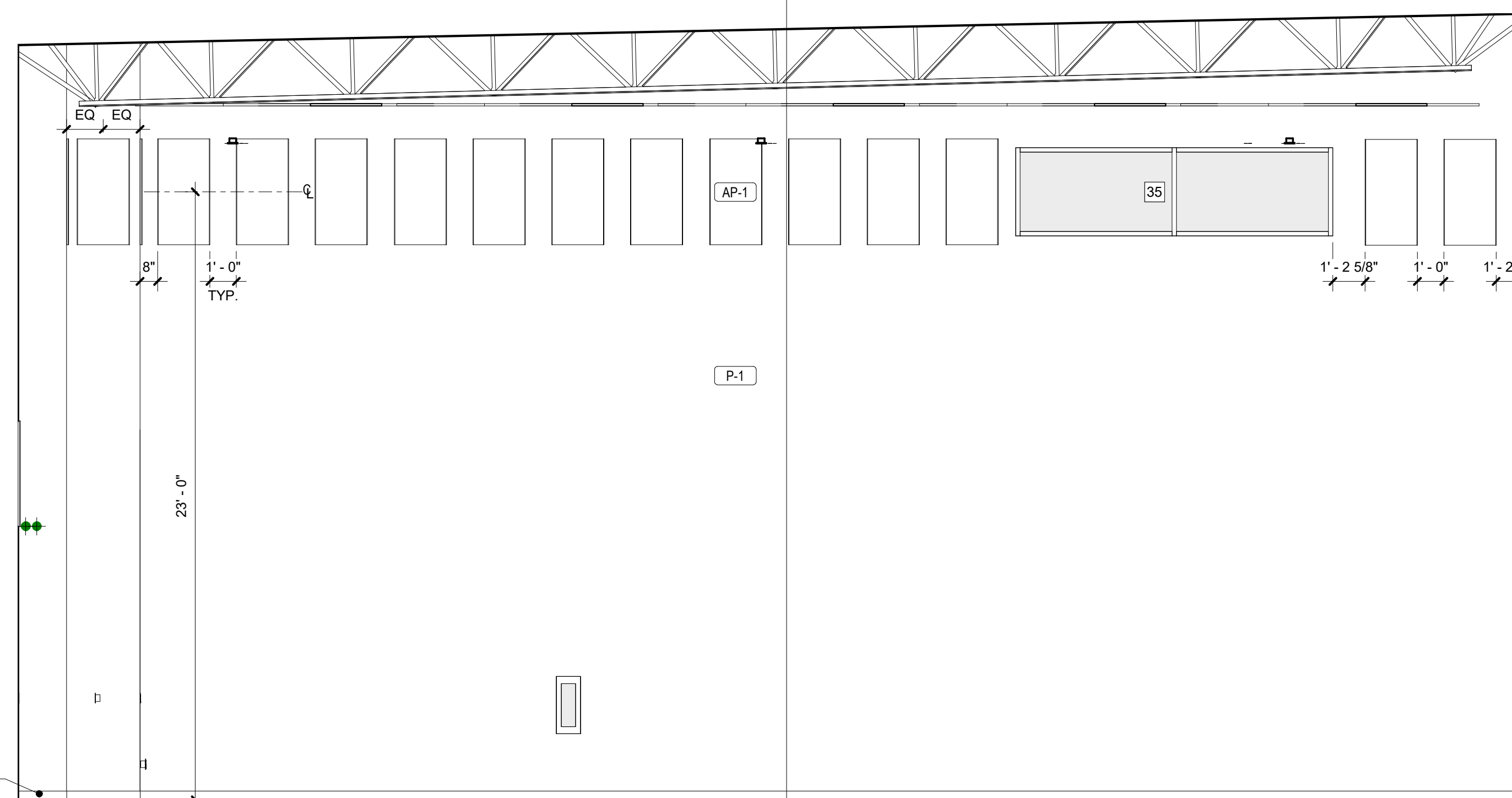
146 OF 272 SHEETS
05/03/2024



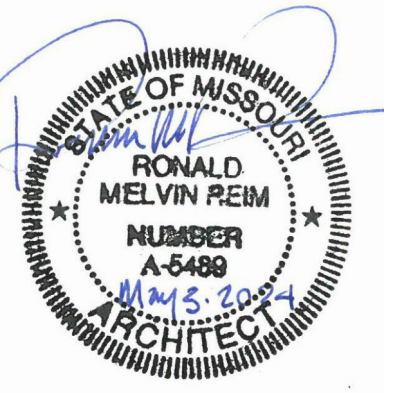
1 ASSEMBLY HALL - NORTH
1/4" = 1'-0"



2 ASSEMBLY HALL - WEST
1/4" = 1'-0"



3 ASSEMBLY HALL - EAST
1/4" = 1'-0"



PROFESSIONAL SEAL



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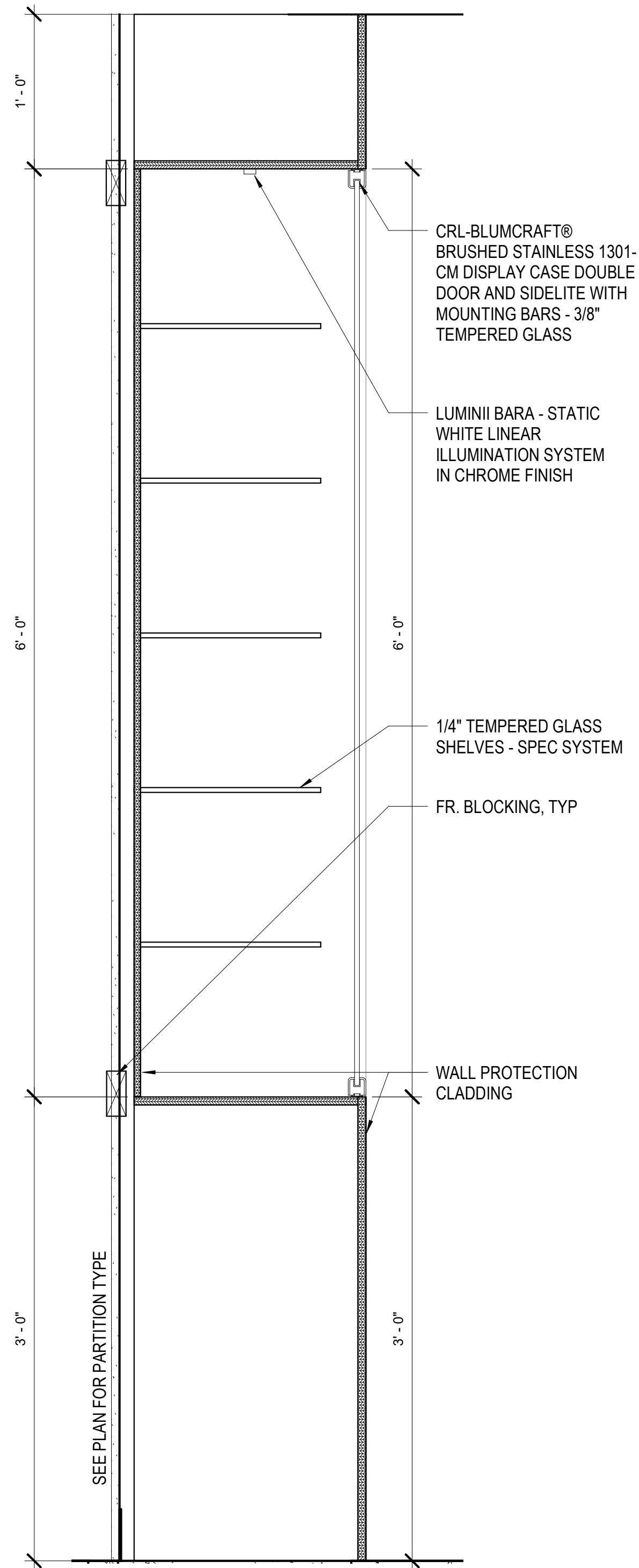
CAD DWG FILE: _____
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
INTERIOR DETAILS

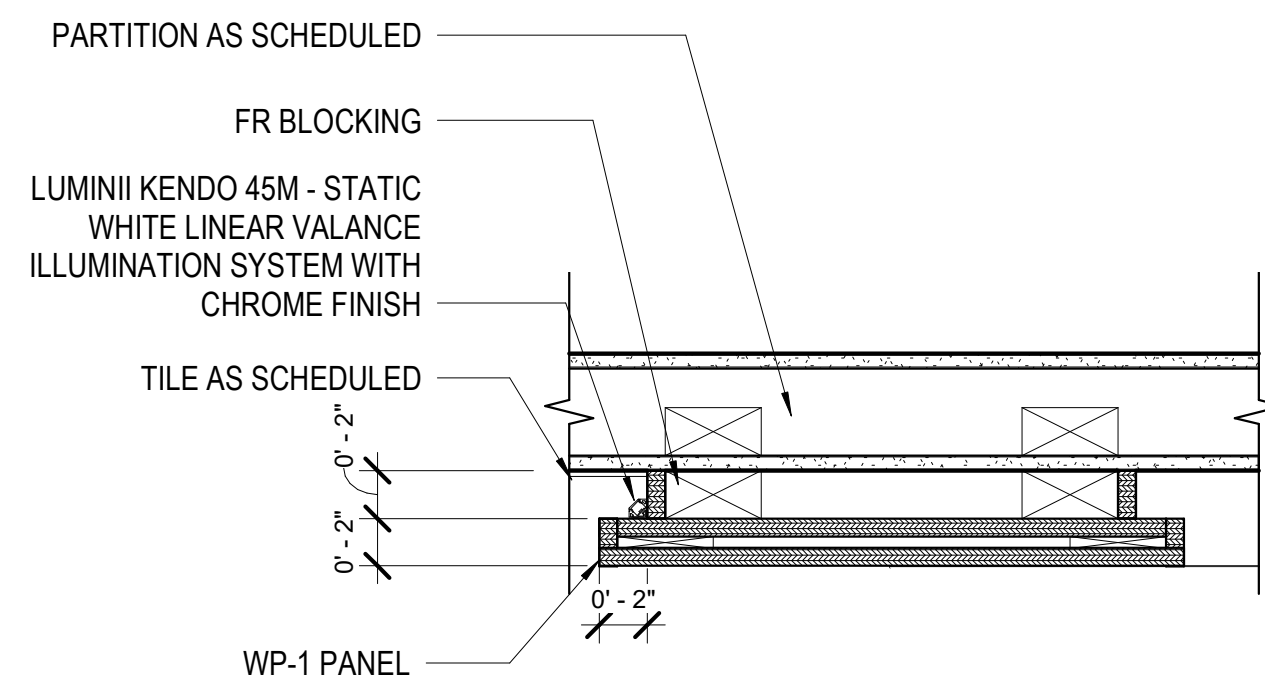
SHEET NUMBER:

A506

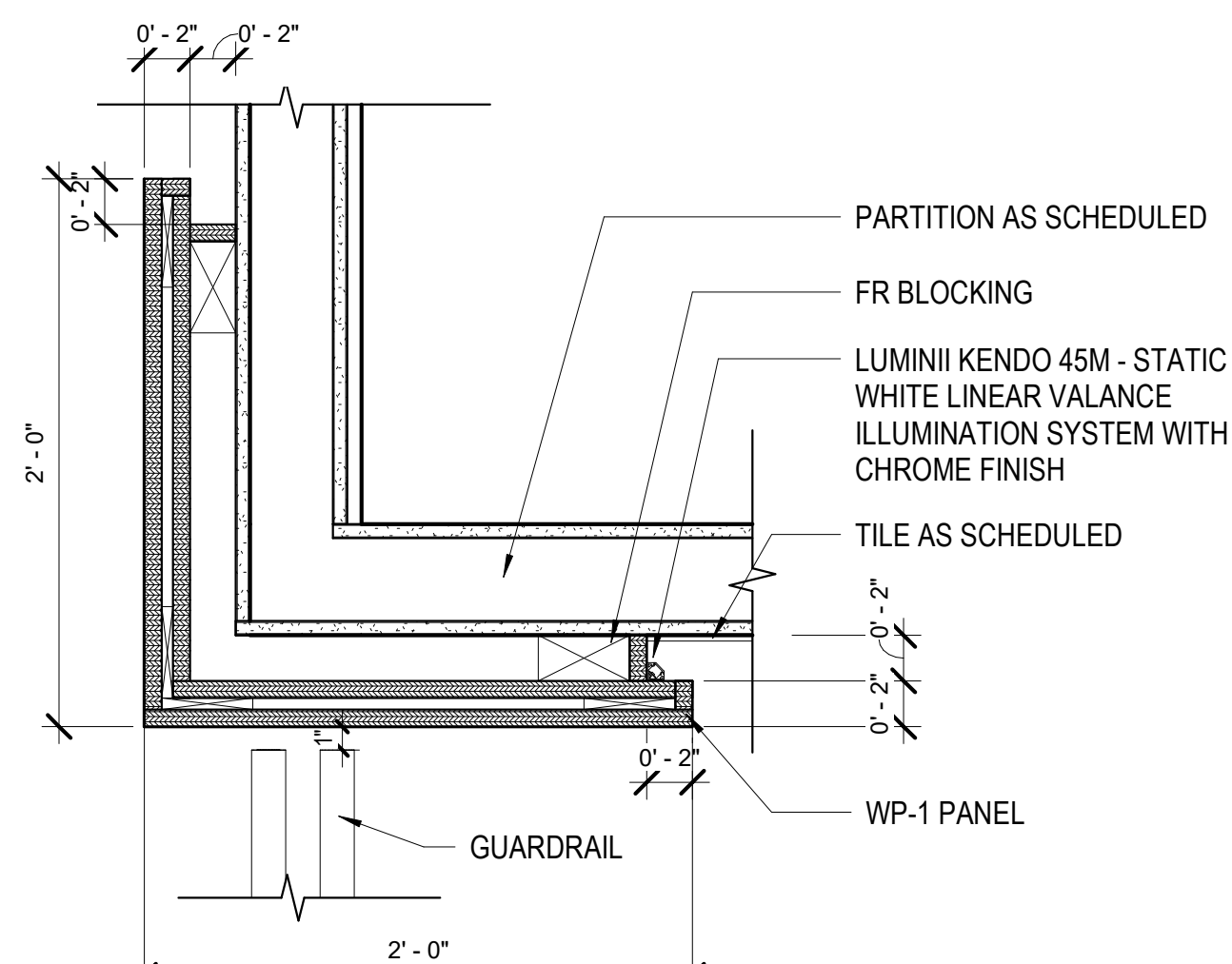
147 OF 272 SHEETS
05/03/2024



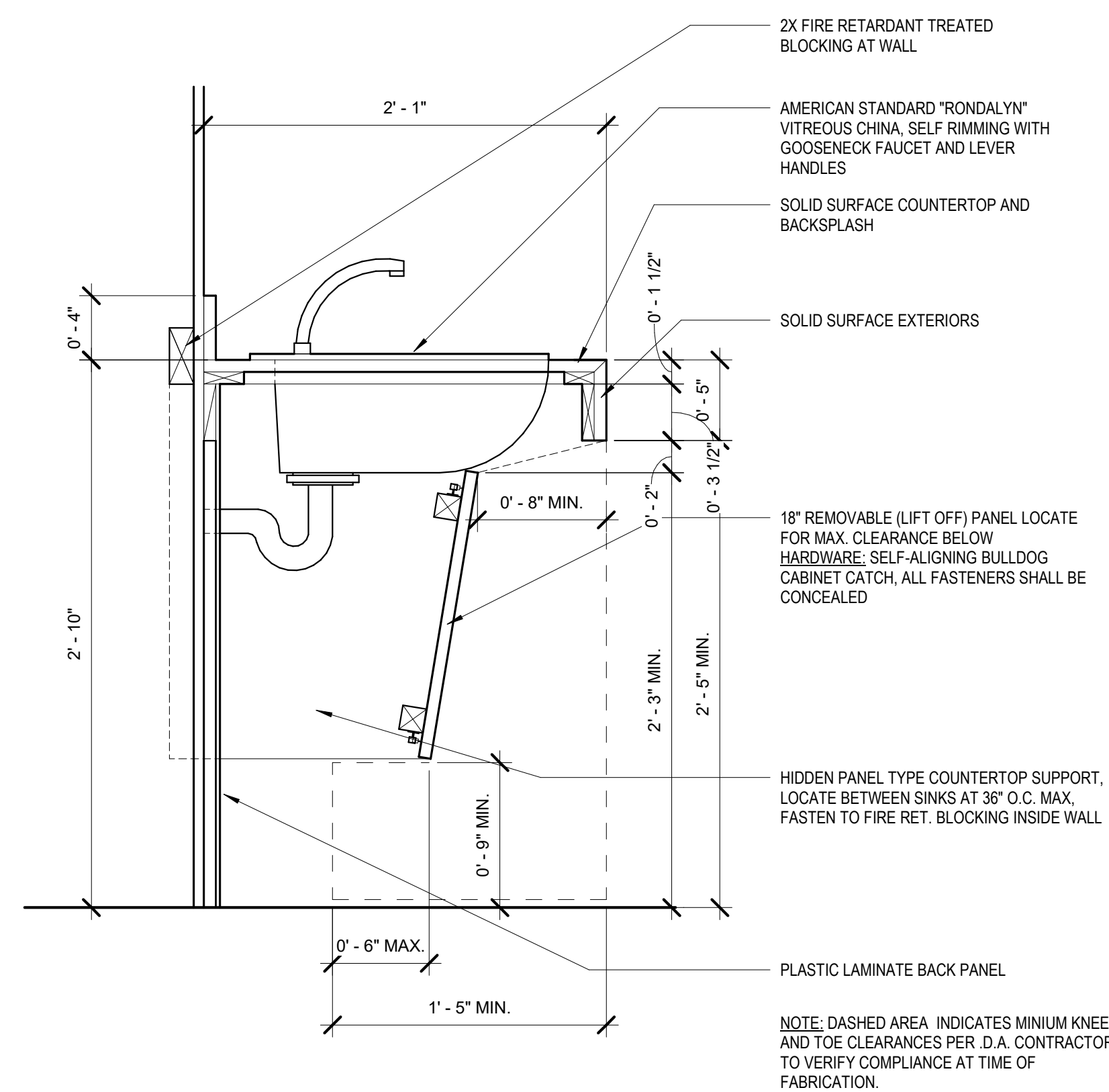
1 DISPLAY CASE DETAIL 1
1 1/2" = 1'-0"



2 LOBBY WOOD PANEL DETAIL 2
1 1/2" = 1'-0"

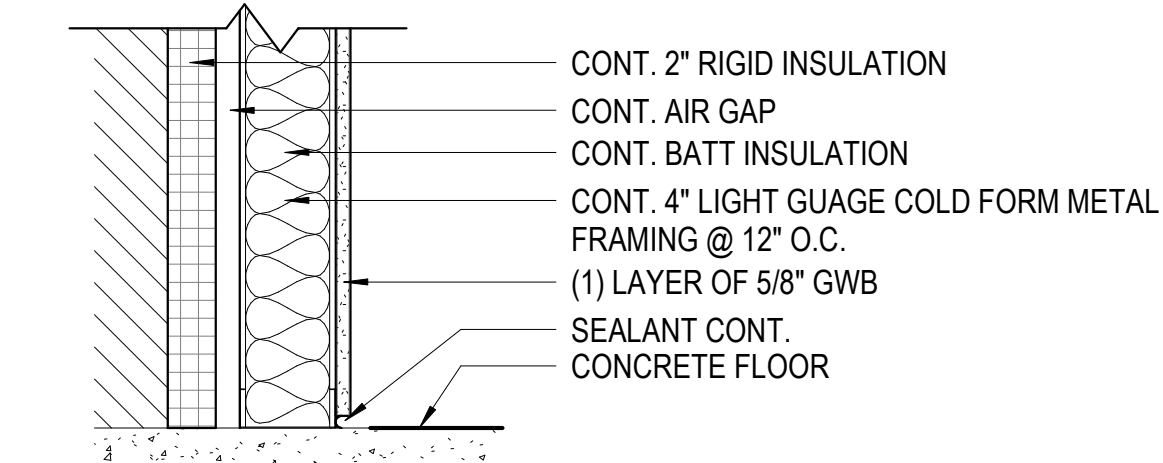
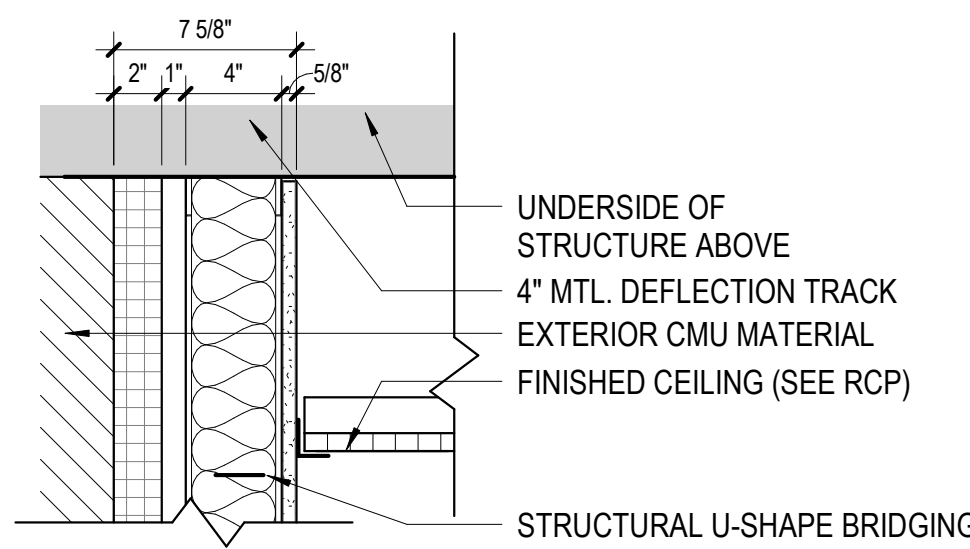


3 LOBBY WOOD PANEL DETAIL
1 1/2" = 1'-0"



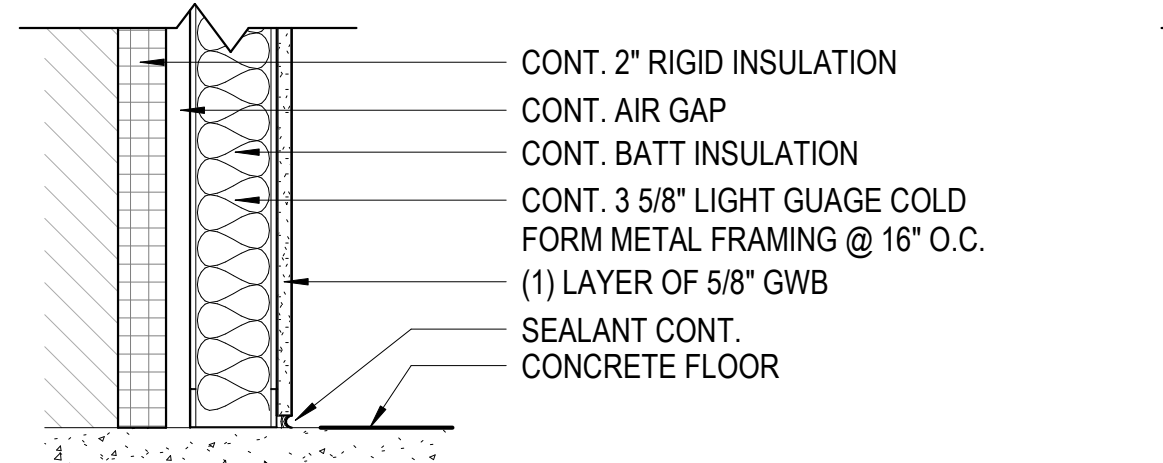
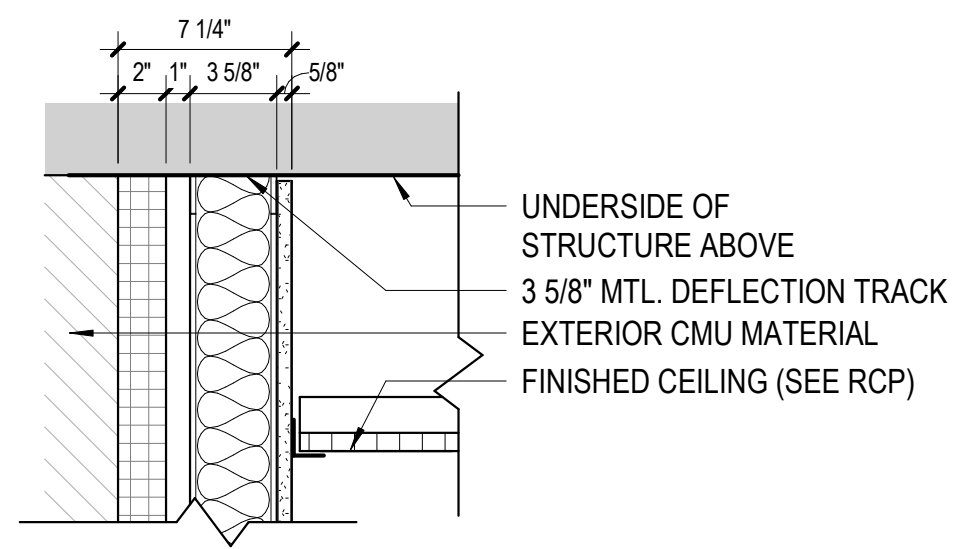
4 ADA SINK DETAIL
1 1/2" = 1'-0"

NOTE: DASHED AREA INDICATES MINIMUM KNEE AND TOE CLEARANCES PER I.A. CONTRACTOR TO VERIFY COMPLIANCE AT TIME OF FABRICATION.



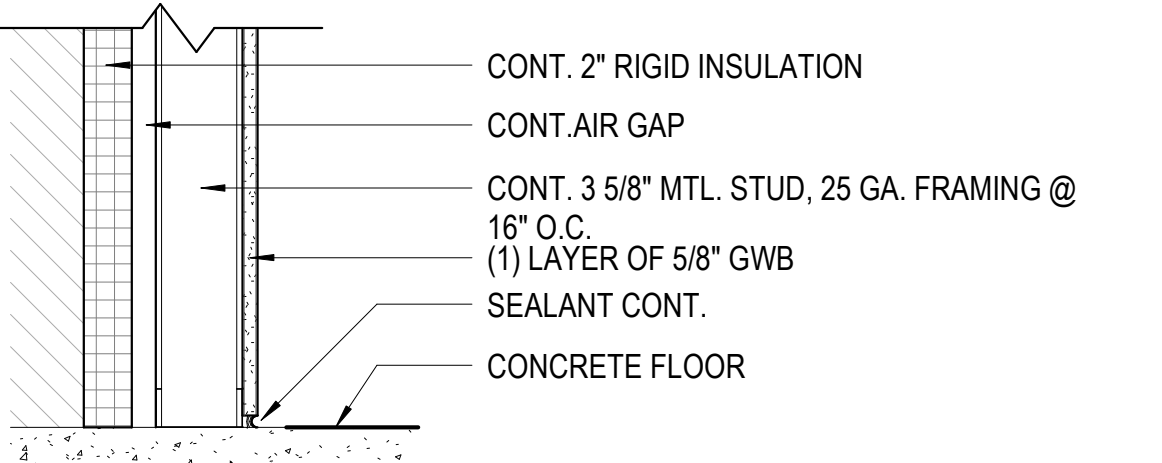
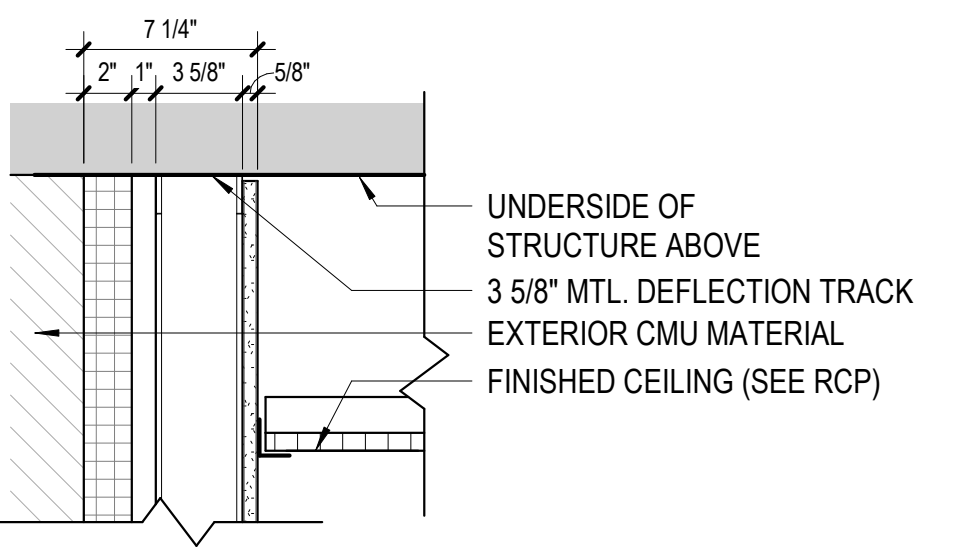
A EXTERIOR FURRING PARTITION: GYPSUM BOARD ONE SIDE, 4\"/>

1 PARTITION TYPE A
1 1/2\"/>



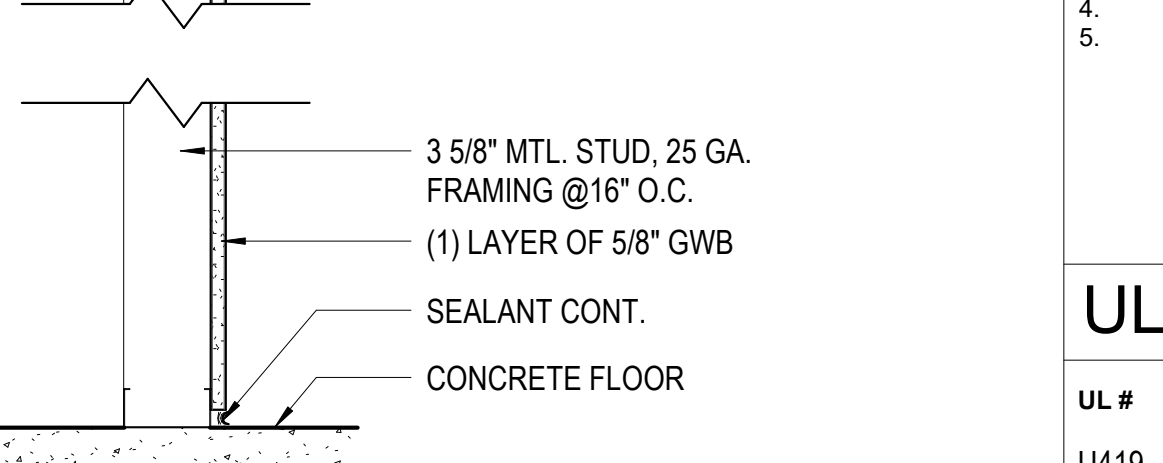
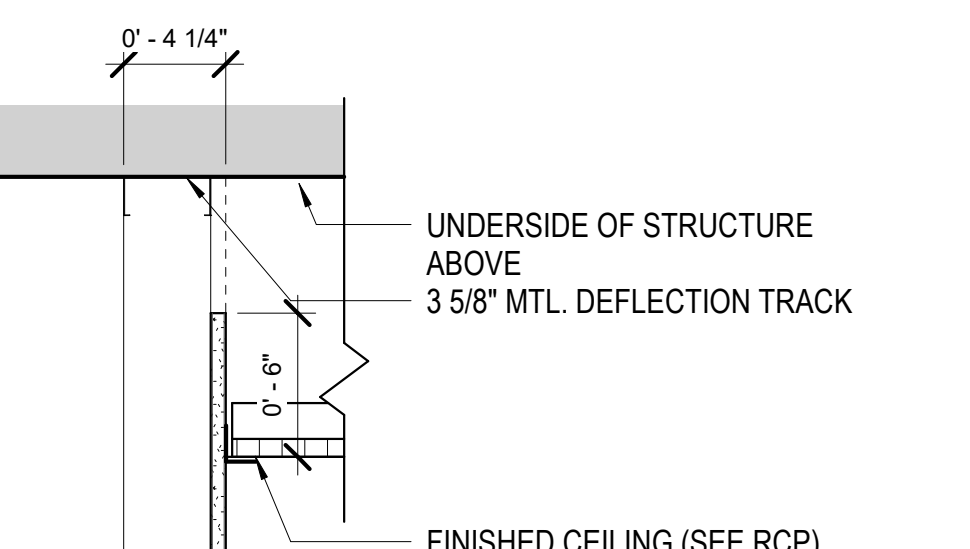
A1 EXTERIOR FURRING PARTITION: GYPSUM BOARD ONE SIDE, 3 5/8\"/>

2 PARTITION TYPE A1
1 1/2\"/>



A2 FURRING PARTITION: GYPSUM BOARD ONE SIDE, 3 5/8\"/>

3 PARTITION TYPE A2
1 1/2\"/>



A3 BASIC FURRING PARTITION: GYPSUM BOARD ONE SIDE & 3 5/8\"/>

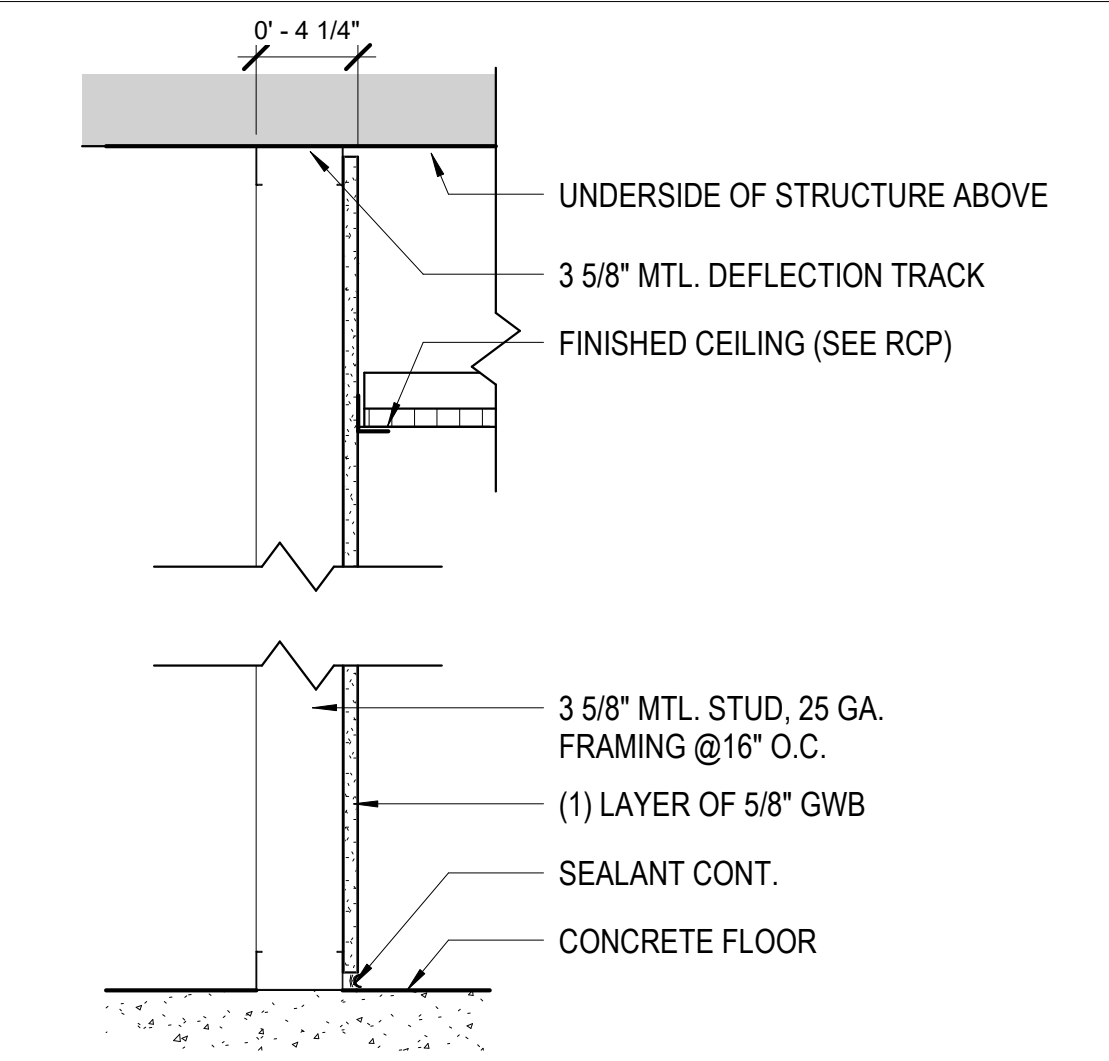
4 PARTITION TYPE A3
1 1/2\"/>

GENERAL NOTES

- SEAL ALL OPENINGS, GAPS, PENETRATIONS AND JOINTS IN ASSEMBLIES TYPES AS FOLLOWS:
 - FIRE BARRIERS: SEAL IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED FOR THROUGH PENETRATION FIRESTOP SYSTEMS AND FIRE RESISTIVE JOINTS SYSTEMS.
 - SMOKE BARRIERS: SEAL COMPLETELY WITH ELASTOMERIC SEALANT FOR THE LOCATION AND EXTENT OF PARTITIONS, DESIGNATED AS "SMOKE TIGHT", REFER TO THE LIFE SAFETY DRAWINGS.
 - OTHER LOCATIONS: SEAL AS INDICATED AND REQUIRED ELSEWHERE BY THE CONTRACT DOCUMENTS. SOUND SEAL ALL MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION PENETRATIONS OF SOUND PARTITIONS TO MEET THE REQUIREMENTS OF THE ROOM.
- SEE LIFE SAFETY PLAN FOR LOCATIONS AND RATINGS OF SMOKE AND FIRE-RATED BARRIERS.
- FIRE RATING TEST NUMBERS ARE FOR UNDERWRITERS' LABORATORIES (UL) ASSEMBLIES, UNLESS OTHERWISE NOTED.
- PROVIDE STENCILED IDENTIFICATION OF RATED BARRIERS.
- VAPOR BARRIER TO BE PROVIDED ON ALL INTERIOR WALL PARTITIONS SEPARATING CONDITIONED AND UNCONDITIONED (HEATED ONLY) SPACES.

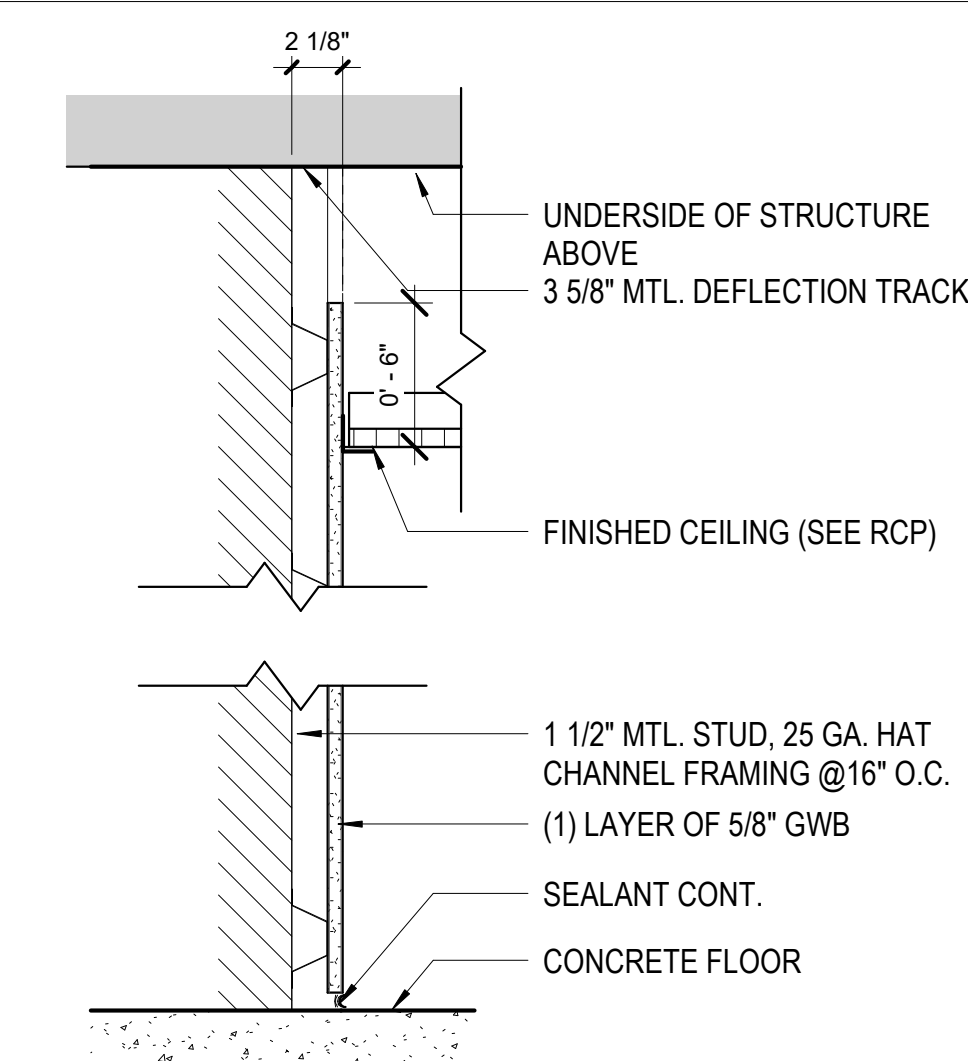
UL REFERENCE

UL #	FR	Typical Partition Type
U419	1 hr	B3 - 3 5/8\"/>
U419	2 hr	B4 - 3 5/8\"/>
U415	1 hr	S - 4\"/>
U415	1 hr	S1 - 6\"/>



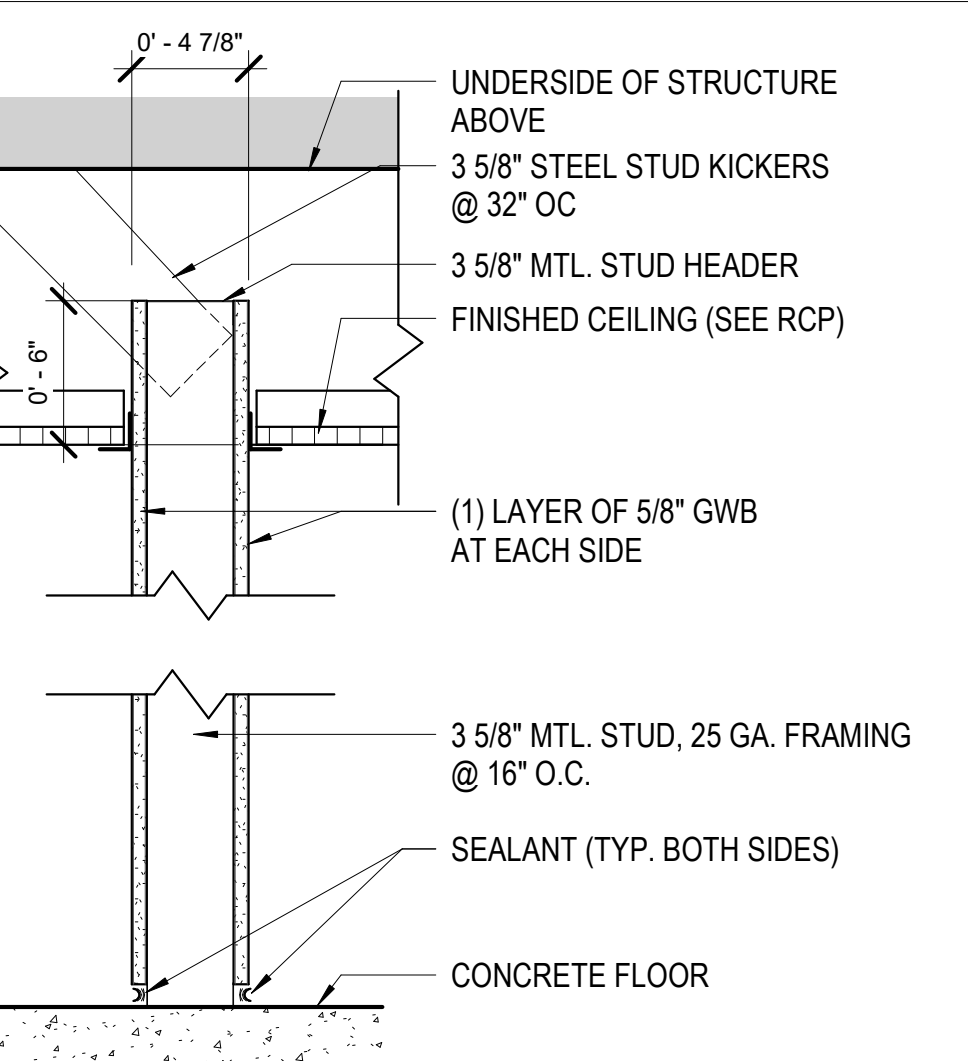
A4 BASIC FURRING PARTITION: GYPSUM BOARD ONE SIDE, FINISH MATERIAL TO DECK, NO INSULATION, NO FIRE RATING

5 PARTITION TYPE A4
1 1/2\"/>



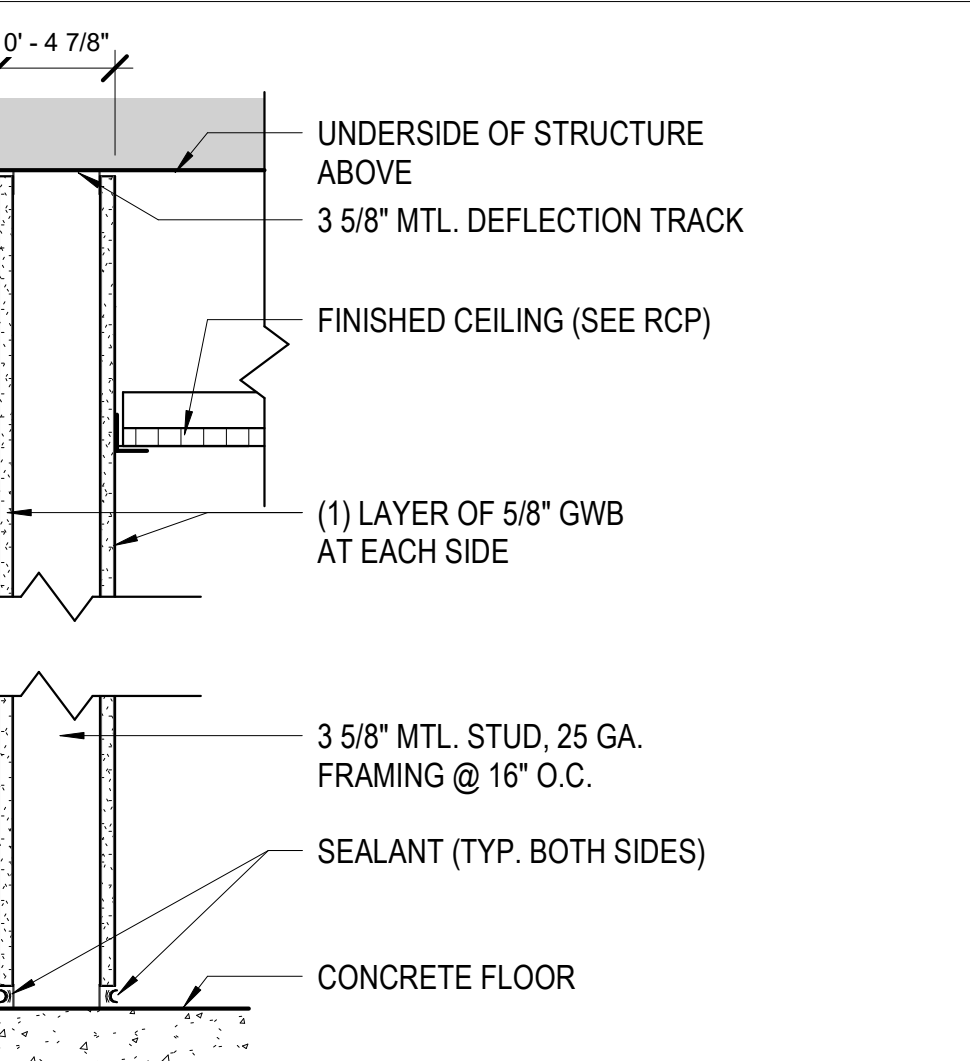
A5 BASIC FURRING PARTITION: GYPSUM BOARD ONE SIDE & 1 1/2\"/>

6 PARTITION TYPE A5
1 1/2\"/>



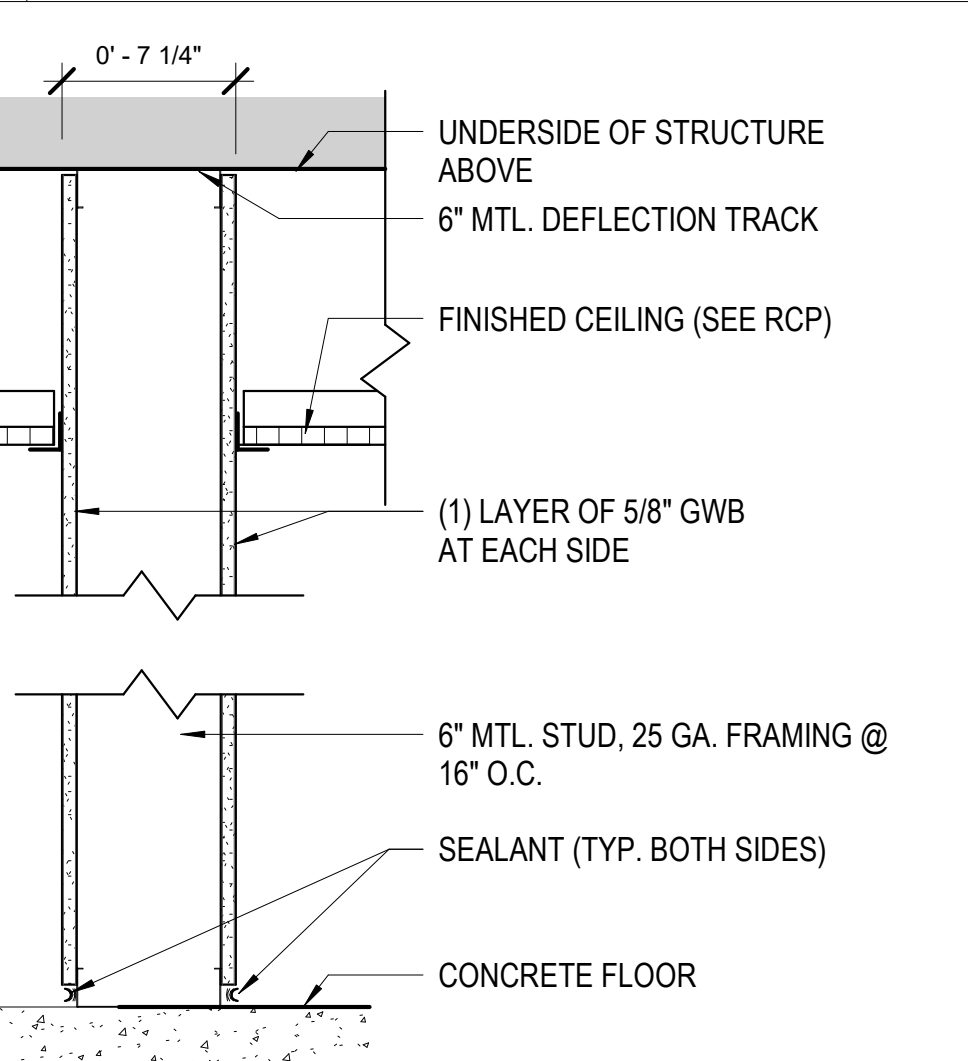
B BASIC PARTITION: GYPSUM BOARD BOTH SIDES, FINISH MATERIALS 6\"/>

7 PARTITION TYPE B
1 1/2\"/>



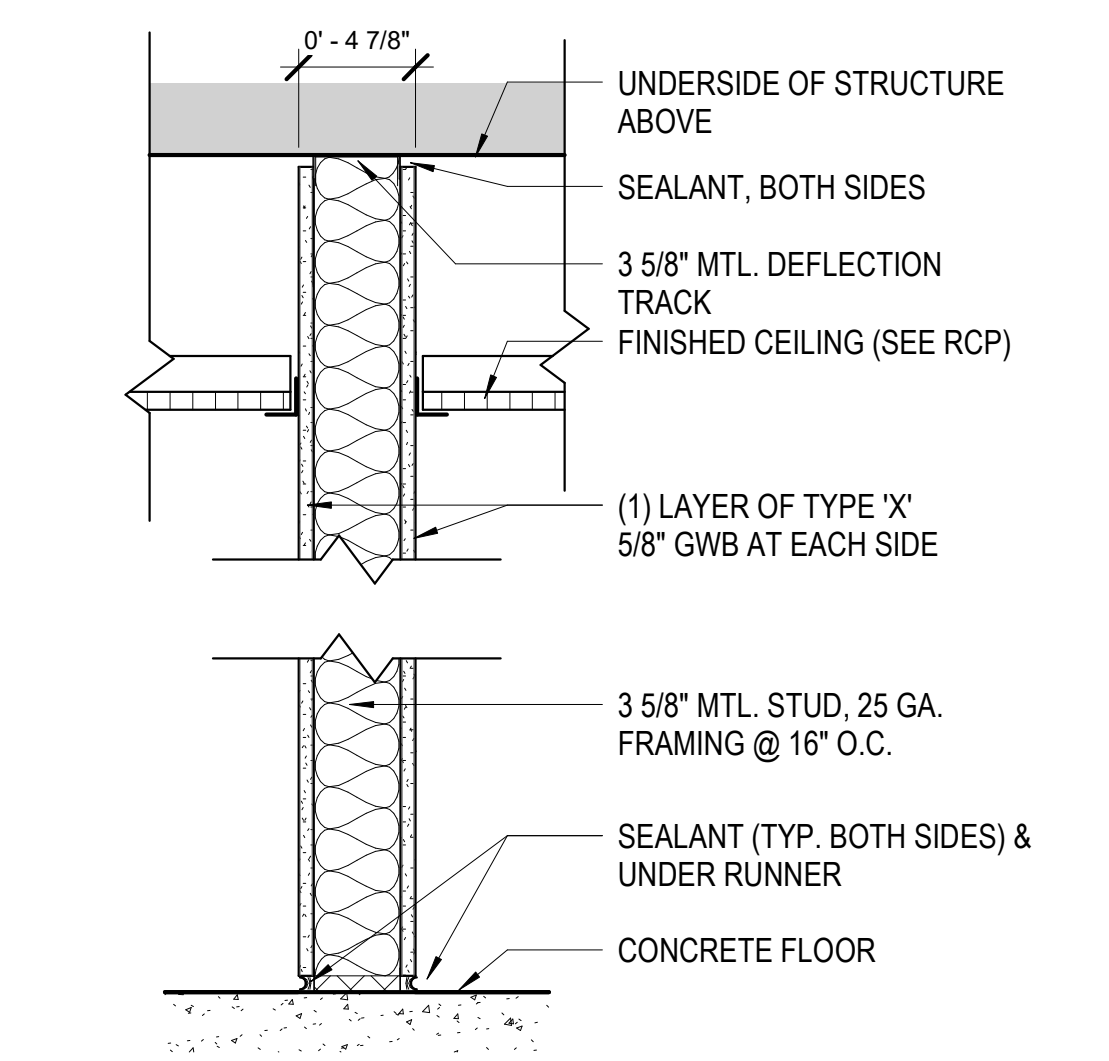
B1 BASIC PARTITION: GYPSUM BOARD BOTH SIDES, FINISH MATERIALS TO DECK, NO INSULATION, NO FIRE RATING

8 PARTITION TYPE B1
1 1/2\"/>



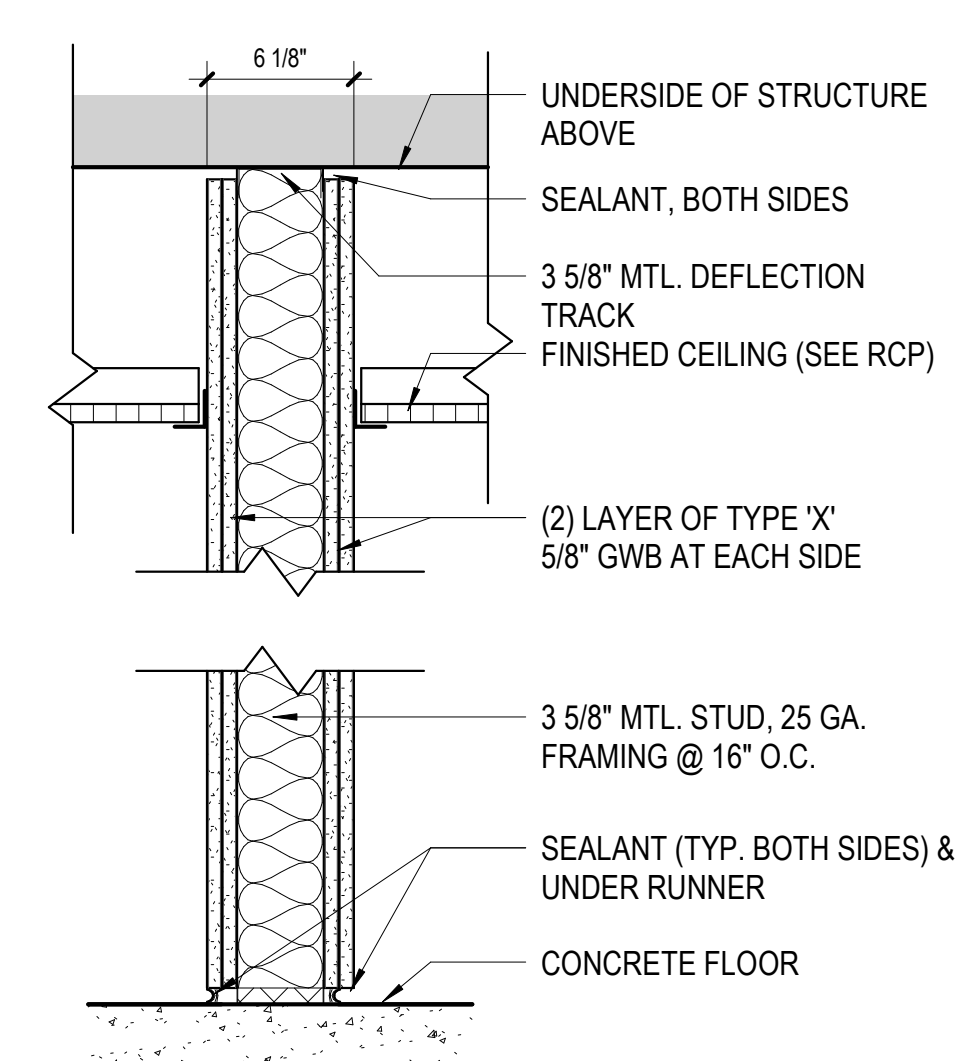
B2 BASIC PARTITION: GYPSUM BOARD BOTH SIDES & 6\"/>

9 PARTITION TYPE B2
1 1/2\"/>



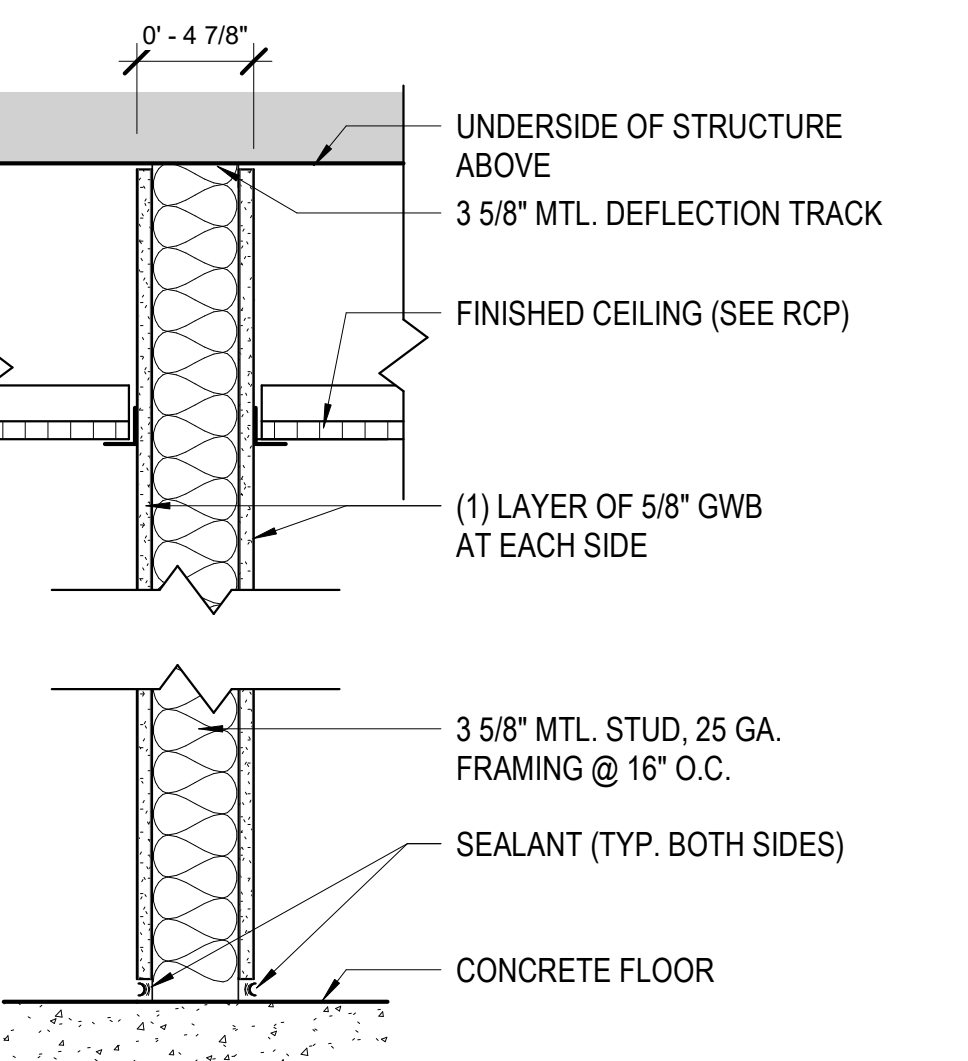
B3 1 HOUR FIRE RATED PARTITION, 3 5/8\"/>

10 PARTITION TYPE B3
1 1/2\"/>



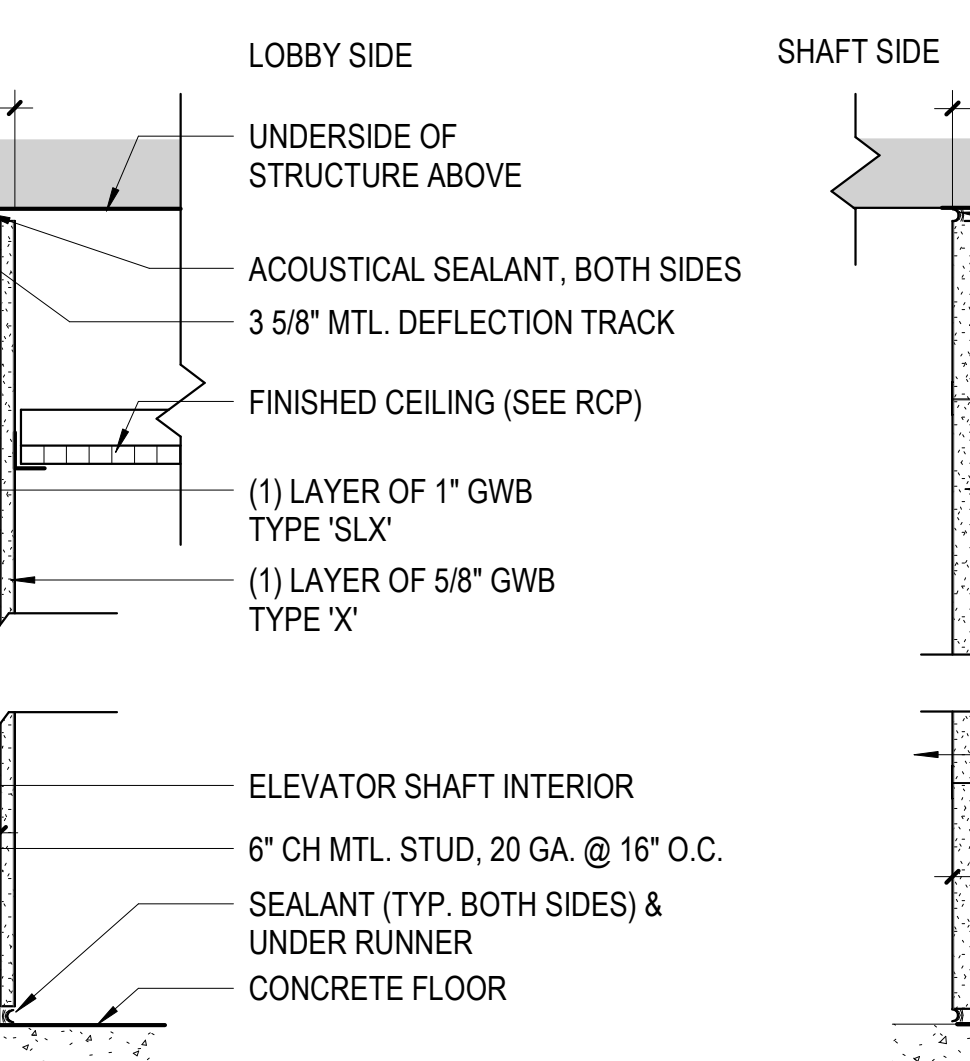
B4 2 HOUR FIRE RATED PARTITION, 3 5/8\"/>

11 PARTITION TYPE B4
1 1/2\"/>



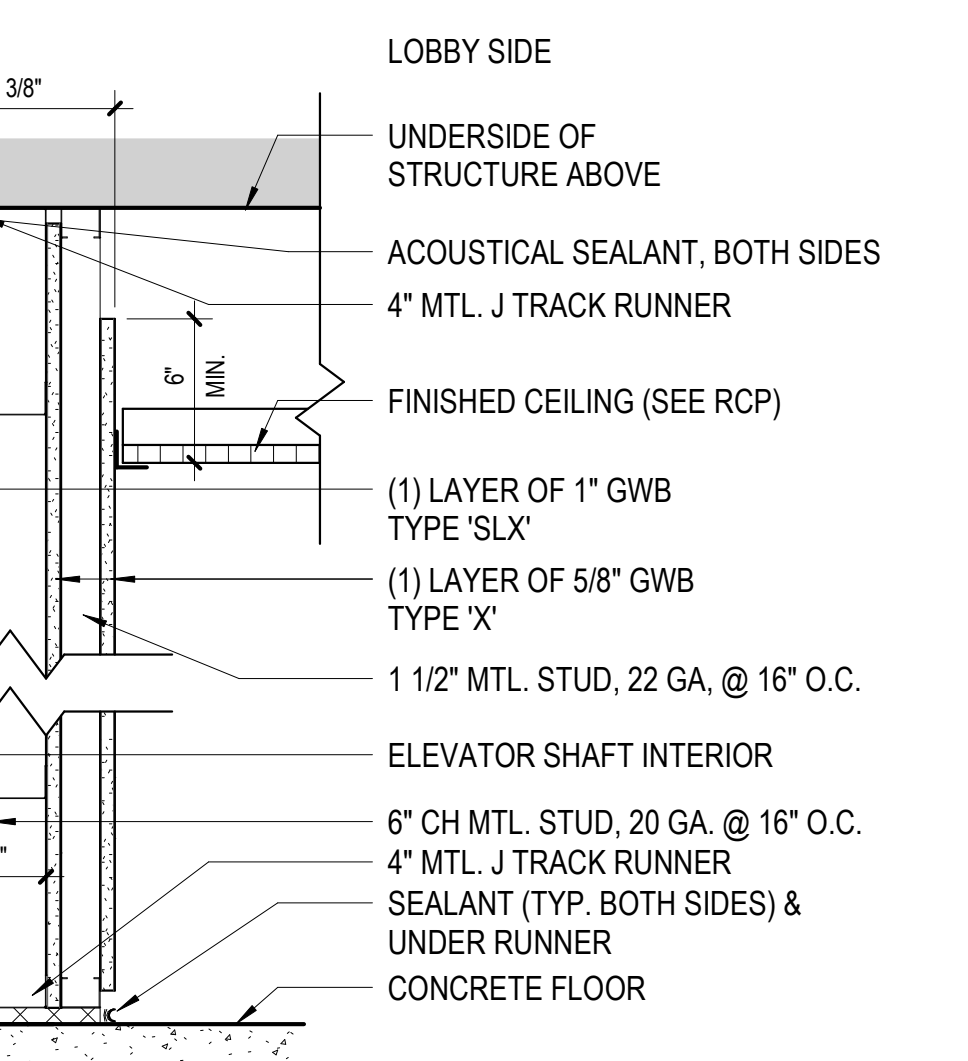
B5 BASIC PARTITION: GYPSUM BOARD BOTH SIDES, FINISH MATERIALS TO DECK, BATT INSULATION, NO FIRE RATING

12 PARTITION TYPE B5
1 1/2\"/>



S SHAFT WALL PARTITION: 6\"/>

13 PARTITION TYPE S
1 1/2\"/>



S1 SHAFT WALL PARTITION: 6\"/>

14 PARTITION TYPE S1
1 1/2\"/>

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



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REVISION: _____
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DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: JDW
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
**WALL & PARTITION
ASSEMBLIES**

SHEET NUMBER:

A601

148 OF 272 SHEETS
05/03/2024

DOOR SCHEDULE

DOOR NUMBER	WIDTH	HEIGHT	THICKNESS	DOOR				FRAME			Comments
				TYPE	MATERIAL	DOOR PAINT	HARDWARE	TYPE	MATERIAL L	FRAME PAINT	
002	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 12	F3	HM	P-7	
003	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 13	F4	HM	P-7	
005	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 12	F1	HM	P-7	1 HR RATED
006	5'-8"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 9	F4	HM	P-7	
007A	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 8	F4	HM	P-7	
007B	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 8	F4	HM	P-7	
007C	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 4	F2	HM	P-7	BLAST, UL752 LEVEL 5
008	5'-8"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 13	F2	HM	P-7	
009A	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 12	F1	HM	P-7	
009B	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 13	F2	HM	P-7	
010A	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 10	F1	HM	P-7	TRAFFIC DOOR, SEE SPEC
010B	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 13	F2	HM	P-7	TRAFFIC DOOR, SEE SPEC
011	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 13	F1	HM	P-7	TRAFFIC DOOR, SEE SPEC
012A	6'-0"	5'-0"	0'-3"		GALV.				GALV.		INTERIOR COILING DOOR
013	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 11	F3	HM	P-7	
014	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 12	F3	HM	P-7	
015	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 12	F3	HM	P-7	
016	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 14	F3	HM	P-7	
017	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 12	F3	HM	P-7	
018A	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 12	F3	HM	P-7	
018B	10'-0"	5'-0"	0'-3"		GALV.				GALV.		INTERIOR COILING DOOR
018C	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 3	F1	HM	P-7	BLAST, UL752 LEVEL 5
019	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 12	F1	HM	P-7	1 HR RATED
020A	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 8	F2	HM	P-7	
020B	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 4	F2	HM	P-7	BLAST, UL752 LEVEL 5
021	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 11	F1	HM	P-7	
022	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 11	F1	HM	P-7	
023A	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 7	F1	HM	P-7	BLAST, UL752 LEVEL 5
023B	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 3	F1	HM	P-7	BLAST, UL752 LEVEL 5
023C	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 3	F1	HM	P-7	BLAST, UL752 LEVEL 5
024	5'-8"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 13	F2	HM	P-7	
025	5'-8"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 13	F2	HM	P-7	
026A	5'-8"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 13	F2	HM	P-7	1 1/2 HR RATED
027A	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 15	F3	HM	P-7	1 1/2 HR RATED
027B	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 5	F2	HM	P-7	BLAST, UL752 LEVEL 5
028	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 13	F4	HM	P-7	
029	3'-0"	7'-0"	0'-1 3/4"								VAULT
030	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 11	F3	HM	P-7	
031	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 6	F1	HM	P-7	BLAST, UL752 LEVEL 5
032A	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 8	F4	HM	P-7	
032B	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 4	F2	HM	P-7	
033	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 11	F3	HM	P-7	
034	3'-0"	7'-0"	0'-1 3/4"								VAULT
035	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 13	F4	HM	P-7	
036A	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 7	F1	HM	P-7	
036B	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 3	F1	HM	P-7	BLAST, UL752 LEVEL 5
037A	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 6	F1	HM	P-7	BLAST, UL752 LEVEL 5
037D	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 8	F2	HM	P-7	
038A	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 8	F4	HM	P-7	
038B	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 10	F3	HM	P-7	
038C	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 10	F3	HM	P-7	
039	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 8	F4	HM	P-7	
040A	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 10	F3	HM	P-7	
040B	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 10	F3	HM	P-7	
043A	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 7	F3	HM	P-7	
045A	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 10	F3	HM	P-7	
045B	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 10	F3	HM	P-7	
100A	5'-0"	7'-0"	0'-1 3/4"	F	AL/GL		SET 1		ALUM		BLAST, UL752 LEVEL 5
100B	5'-0"	7'-0"	0'-1 3/4"	F	AL/GL	P-7	SET 2		ALUM		
101	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F3	HM	P-7	
102	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F3	HM	P-7	
103	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F3	HM	P-7	
104	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 5	F2	HM	P-7	BLAST, LABELED FIRE SPRINKLER ROOM
105A	6'-0"	7'-0"	0'-1 3/4"	B	WD		SET 13	F4	HM	P-7	
105B	6'-0"	7'-0"	0'-1 3/4"	D	HM	P-7	SET 5	F2	HM	P-7	BLAST, UL752 LEVEL 5
108A	6'-0"	7'-0"	0'-1 3/4"	B	WD		SET 13	F2	HM	P-7	
108B	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 6	F1	HM	P-7	BLAST, UL752 LEVEL 5
109A	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 7	F1	HM	P-7	1 HR RATED
109B	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 6	F1	HM	P-7	BLAST, UL752 LEVEL 5
110A	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 7	F5	HM	P-7	W/ SIDELITE
110B	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 7	F5	HM	P-7	W/ SIDELITE
111A	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 7	F5	HM	P-7	W/ SIDELITE
111B	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 7	F5	HM	P-7	W/ SIDELITE
112A	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 7	F5	HM	P-7	W/ SIDELITE
112B	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 7	F5	MTL	P-7	W/ SIDELITE
113A	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 16	F5	HM	P-7	
113B	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 16	F3	HM	P-7	
114A	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 16	F5	HM	P-7	
114B	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 16	F3	HM	P-7	
115A	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 12	F3	HM	P-7	
115B	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 6	F1	HM	P-7	BLAST, UL752 LEVEL 5
116	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 10	F3	HM	P-7	
117	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 14	F3	HM	P-7	
118	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 10	F3	HM	P-7	

GENERAL NOTES

- REFER TO DOOR HARDWARE SPECIFICATION FOR HARDWARE GROUPS FOR ALL DOORS.
- SEALANT SHALL BE INSTALLED AT PERIMETER OF ALL EXTERIOR DOOR FRAMES ON BOTH THE EXTERIOR AND INTERIOR SIDE. PROVIDING AN AIR, WEATHER AND WATERTIGHT SEAL. INSTALL BACKER RODS WHERE NEEDED.
- PAINT ALL EXTERIOR DOORS TO MATCH THE BASE STANDARD. THE INTERIOR SIDE SHALL BE PAINTED PER THE MATERIAL AND COLOR LEGEND.
- PAINT ALL DOOR FRAMES, REFERENCE THE MATERIAL AND COLOR LEGEND FOR FINISH.
- ELECTRONIC HARDWARE LISTED IN SPECIFICATION ARE FOR BASIS OF DESIGN.
- UL 752 LEVEL 5 BALLISTIC DOORS TO BE USED FOR THE PRIMARY ENTRANCE FROM POV PARKING.
- REFER TO THE DOD LOCK PROGRAM FEDERAL SPECIFICATIONS AA-D-6000 FOR THE ARMS VAULT DOOR AND FF-L-2937 FOR THE MECHANICAL COMBINATION LOCK.
- BLAST RESISTANT DOORS TO BE DESIGNED IN ACCORDANCE WITH UFC-4-010-01, B-3.2 AND ASTM F 2247 WITH ASTM F 2927. GLAZED DOORS TO BE DESIGNED TO MEET UFC 4-010-01, B-3.1.3 GLAZING REQUIREMENTS WITH ASTM F 2927.

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63136

PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 05/03/2024

CAD DWG FILE:
DRAWN BY: JDW/EH
CHECKED BY: JBS
DESIGNED BY: OCULUS

SHEET TITLE:
DOOR SCHEDULE,
DOOR & FRAME
TYPES &
ELEVATIONS

SHEET NUMBER:

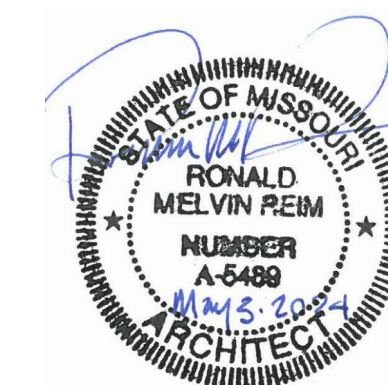
A602

149 OF 272 SHEETS
05/03/2024

DOOR NUMBER	WIDTH	HEIGHT	THICKNESS	DOOR				FRAME			Comments
				TYPE	MATERIAL	DOOR PAINT	HARDWARE	TYPE	MATERIAL L	FRAME PAINT	
119	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 12	F3	HM	P-7	1 HR RATED
120A	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 16	F3	HM	P-7	
120B	6'-0"	7'-0"	0'-1 3/4"	B	WD		SET 13	F4	HM	P-7	
121	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 12	F3	HM	P-7	
122A	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 7	F5	HM	P-7	W/ SIDELITE
122B	3'-0"	7'-0"	0'-1 3/4"	C	HM		SET 3	F1	HM	P-7	BLAST, UL752 LEVEL 5
123	3'-0"	7'-0"	0'-1 3/4"	A	WD	P-7	SET 11	F5	HM	P-7	W/ SIDELITE
124	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
125	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
126	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
127	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
128	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
129	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
130	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
131	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
132	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
133	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
134	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
135	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
136	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
137	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
138	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F3	HM	P-7	
139	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 12	F3	HM	P-7	
140	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 11	F5	HM	P-7	W/ SIDELITE
141A	3'-0"	7'-0"	0'-1 3/4"	A	WD		SET 7	F5	HM	P-7	W/ SIDELITE
141B	3'-0"	7'-0"	0'-1 3/4"	C	HM	P-7	SET 3	F1	HM	P-7	BLAST, UL752 LEVEL 5

OVERHEAD DOOR SCHEDULE

MARK	WIDTH	HEIGHT	THICKNESS	DOOR			FRAME		Comments
				TYPE	MATERIAL	HARDWARE	TYPE	MATERIAL	



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(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

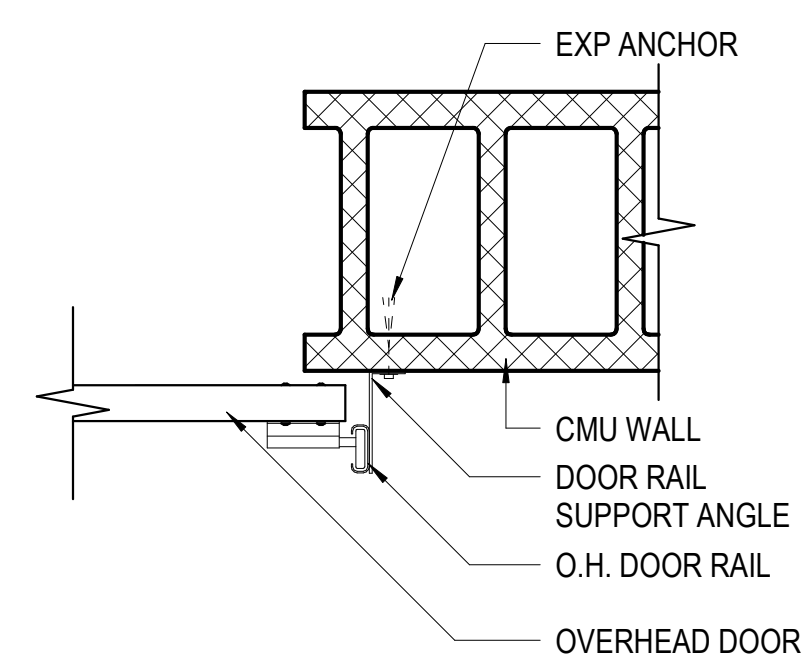
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DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 05/03/2024

CAD DWG FILE: _____
DRAWN BY: EH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS
SHEET TITLE:
**DOOR & FRAME
DETAILS**

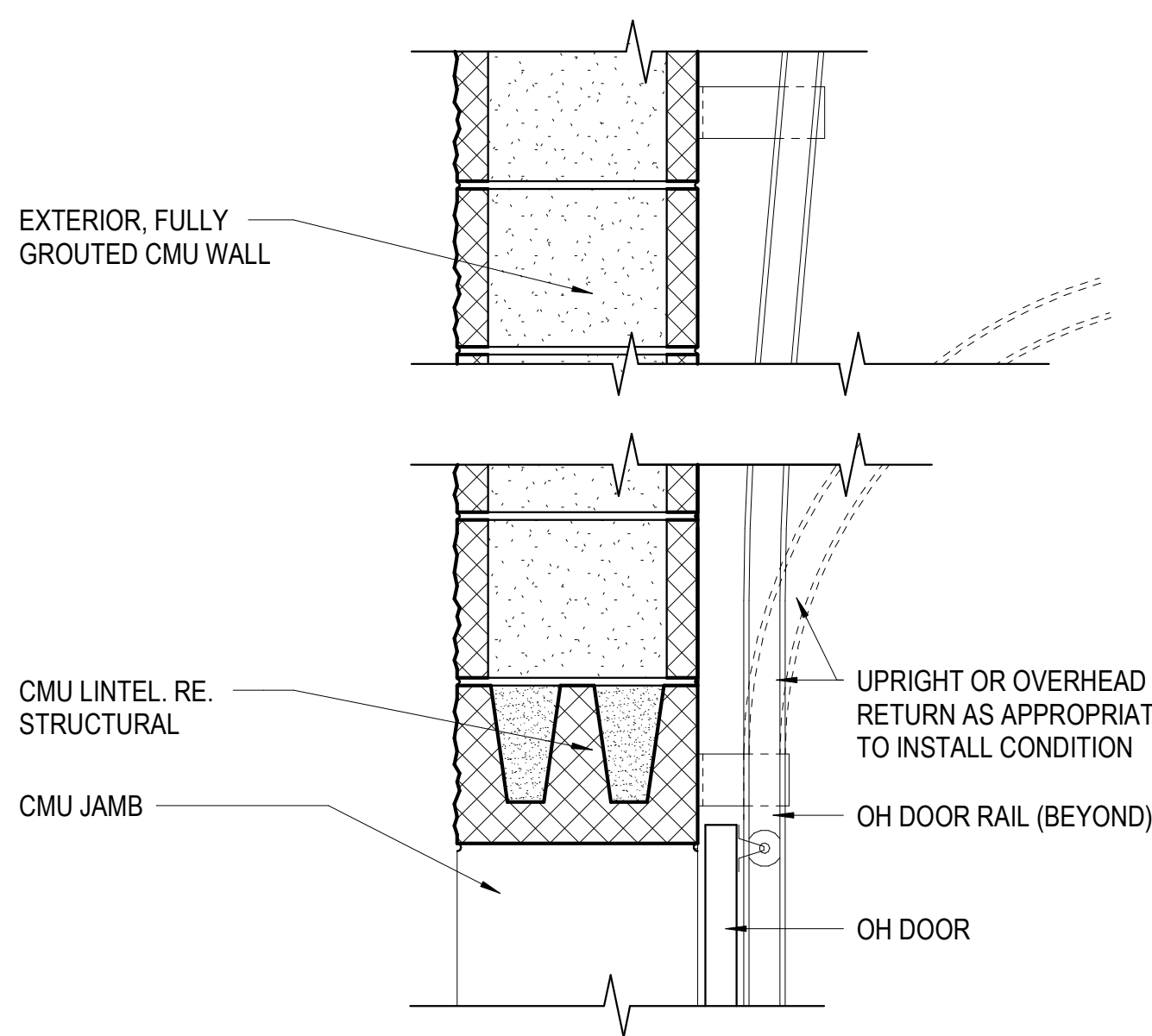
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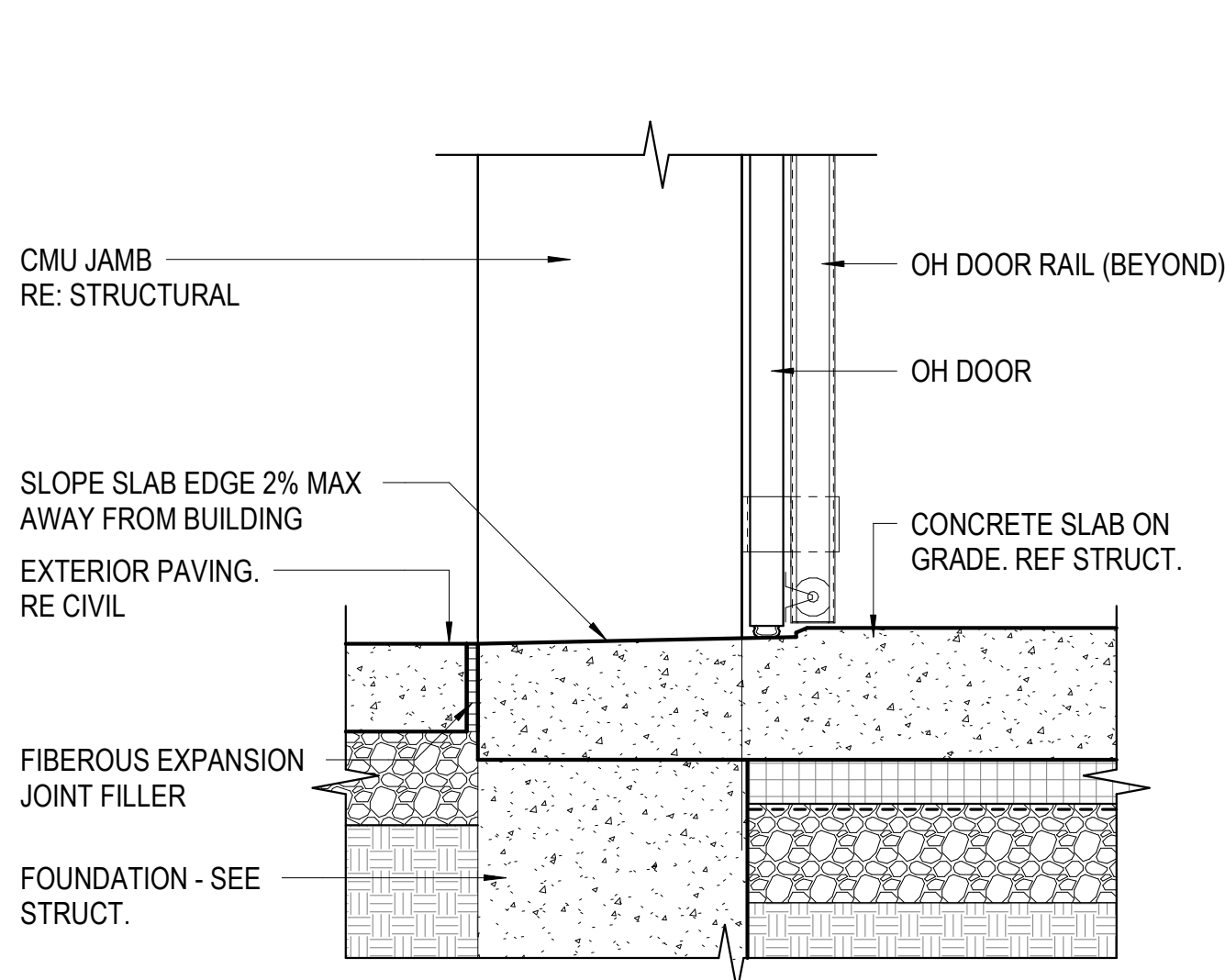
150 OF 272 SHEETS
05/03/2024



JAMB DETAIL

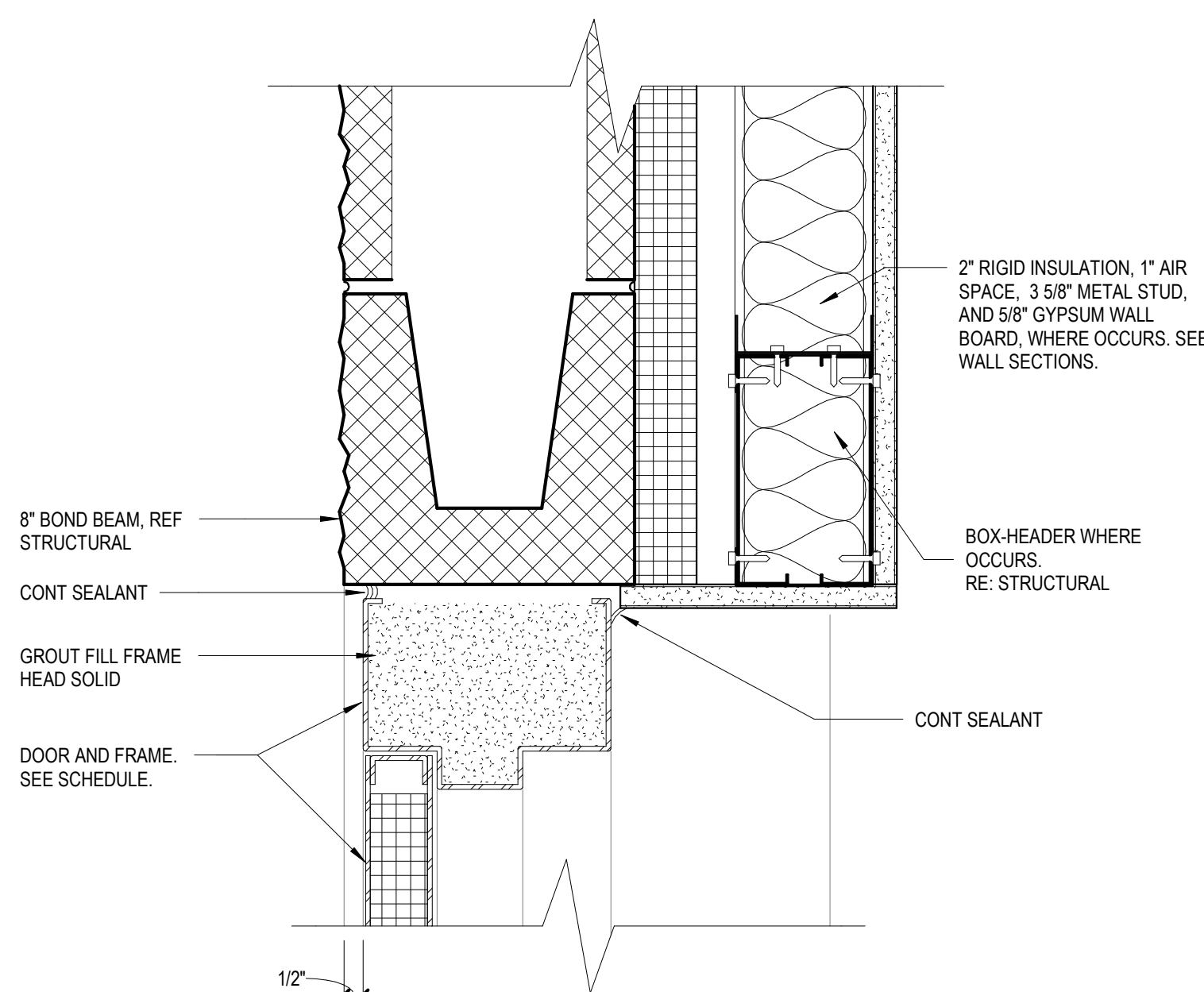


HEAD DETAIL

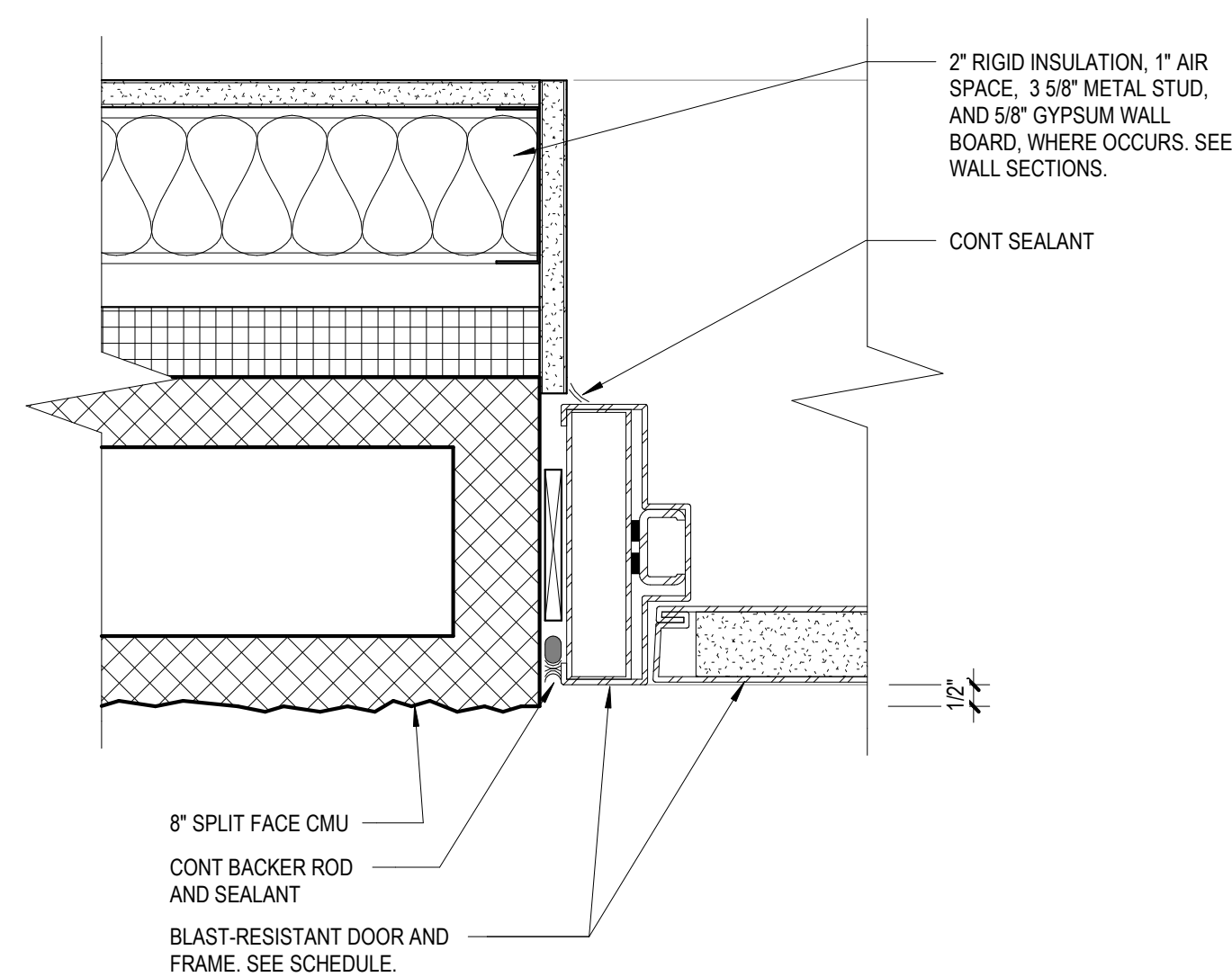


THRESHOLD DETAIL

5 BLAST RESISTANT OVERHEAD DOOR DETAILS
1 1/2" = 1'-0"

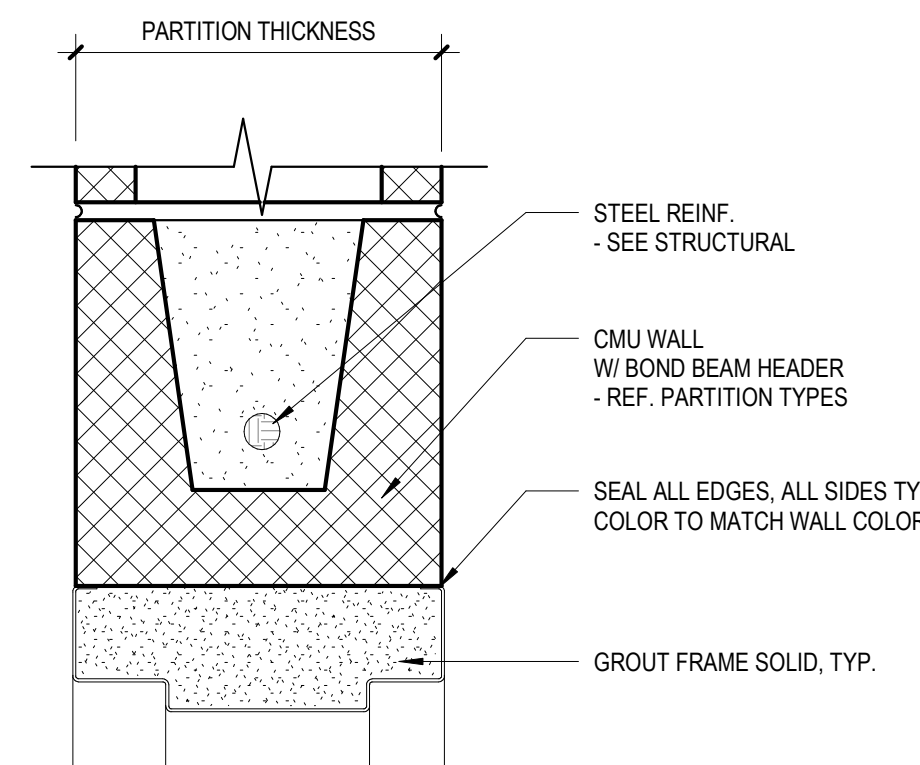


HEAD DETAIL

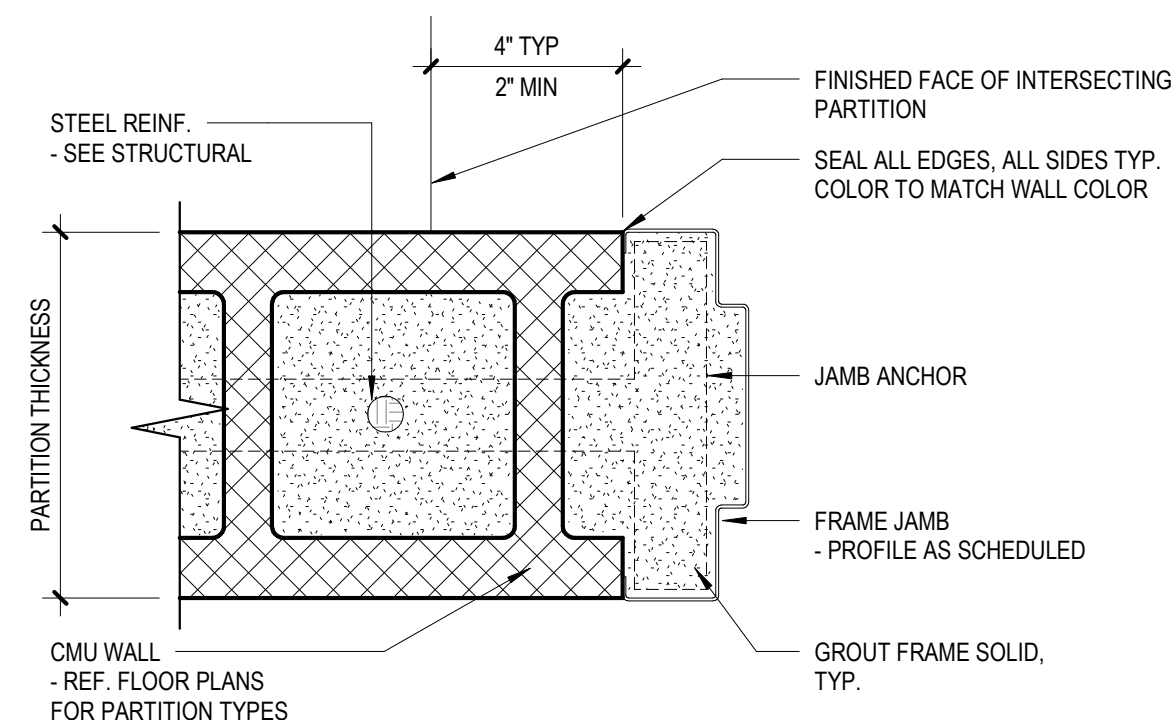


JAMB DETAIL

2 BLAST RESISTANT DOOR FRAME DETAILS
3" = 1'-0"

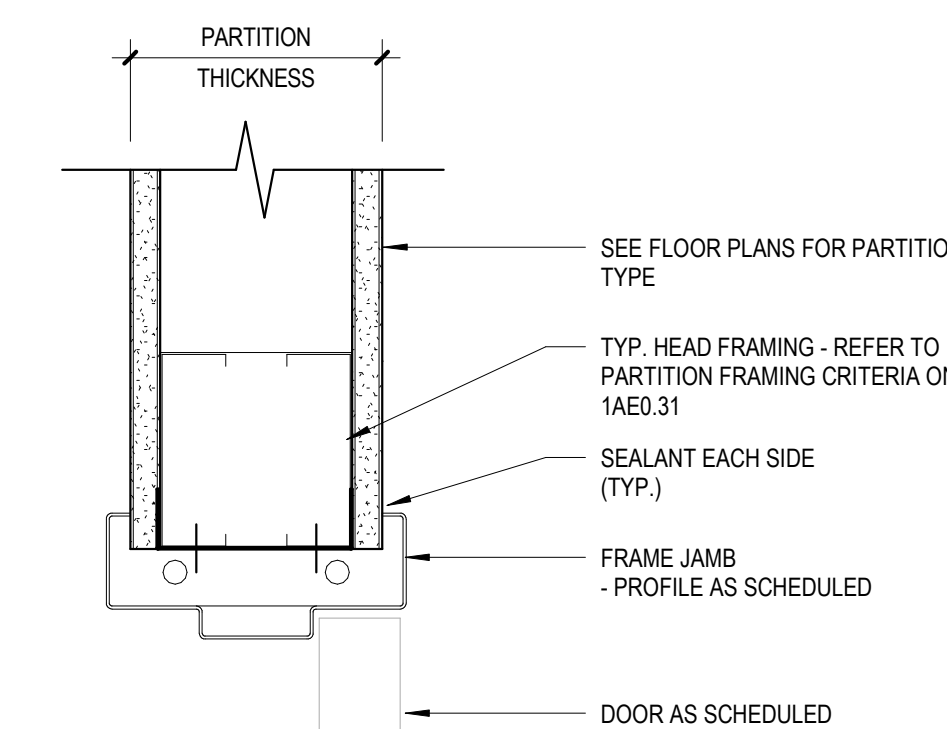


HEAD DETAIL

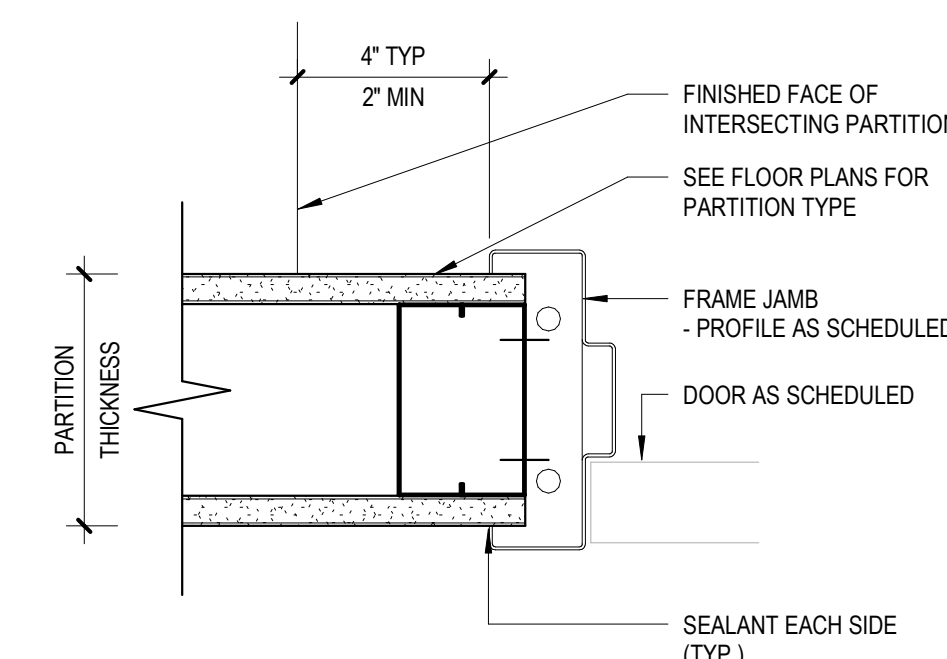


JAMB DETAIL

3 TYPICAL DOOR FRAME DETAILS (HM)
3" = 1'-0"

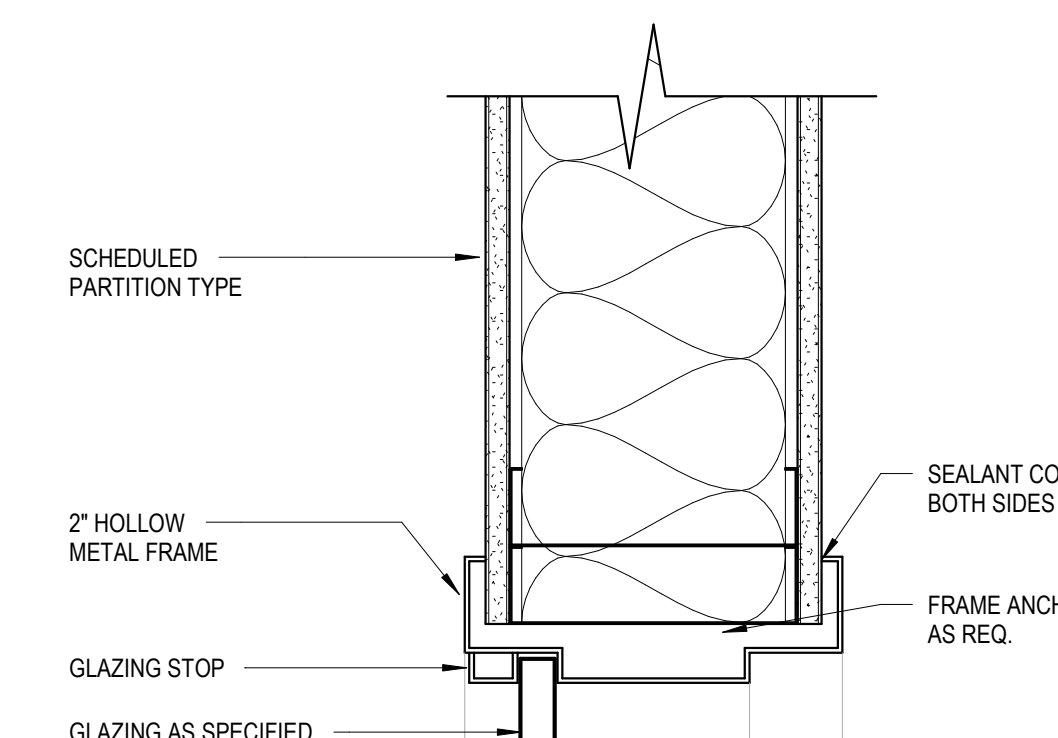


HEAD DETAIL

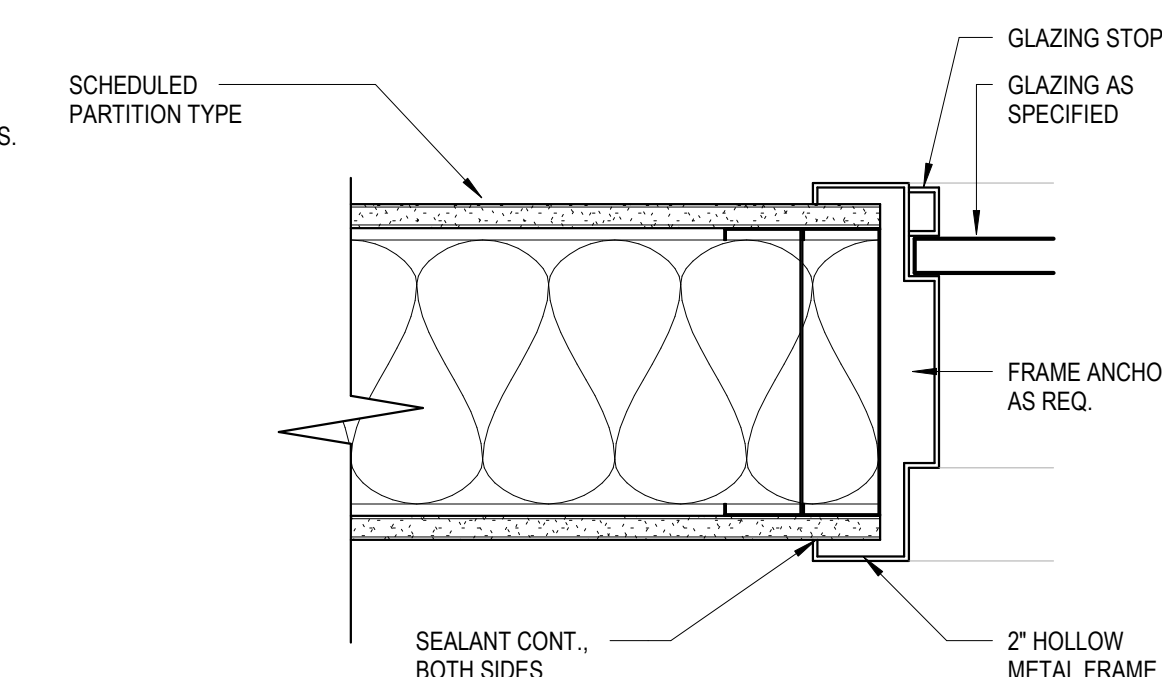


JAMB DETAIL

4 TYPICAL DOOR FRAME DETAILS (HM)
3" = 1'-0"

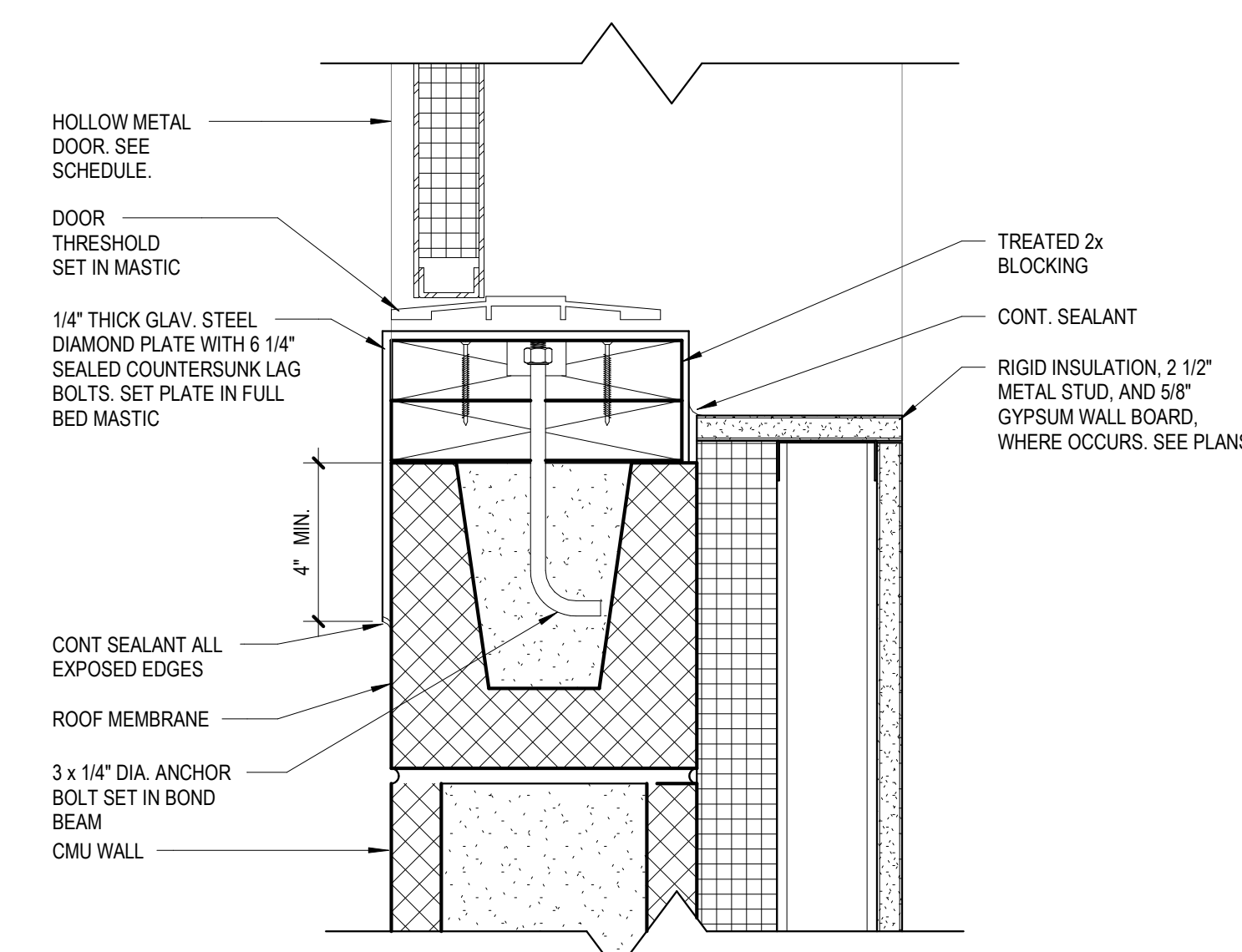


HEAD DETAIL



JAMB DETAIL

8 TYPICAL SIDELITE FRAME DETAILS (HM)
3" = 1'-0"

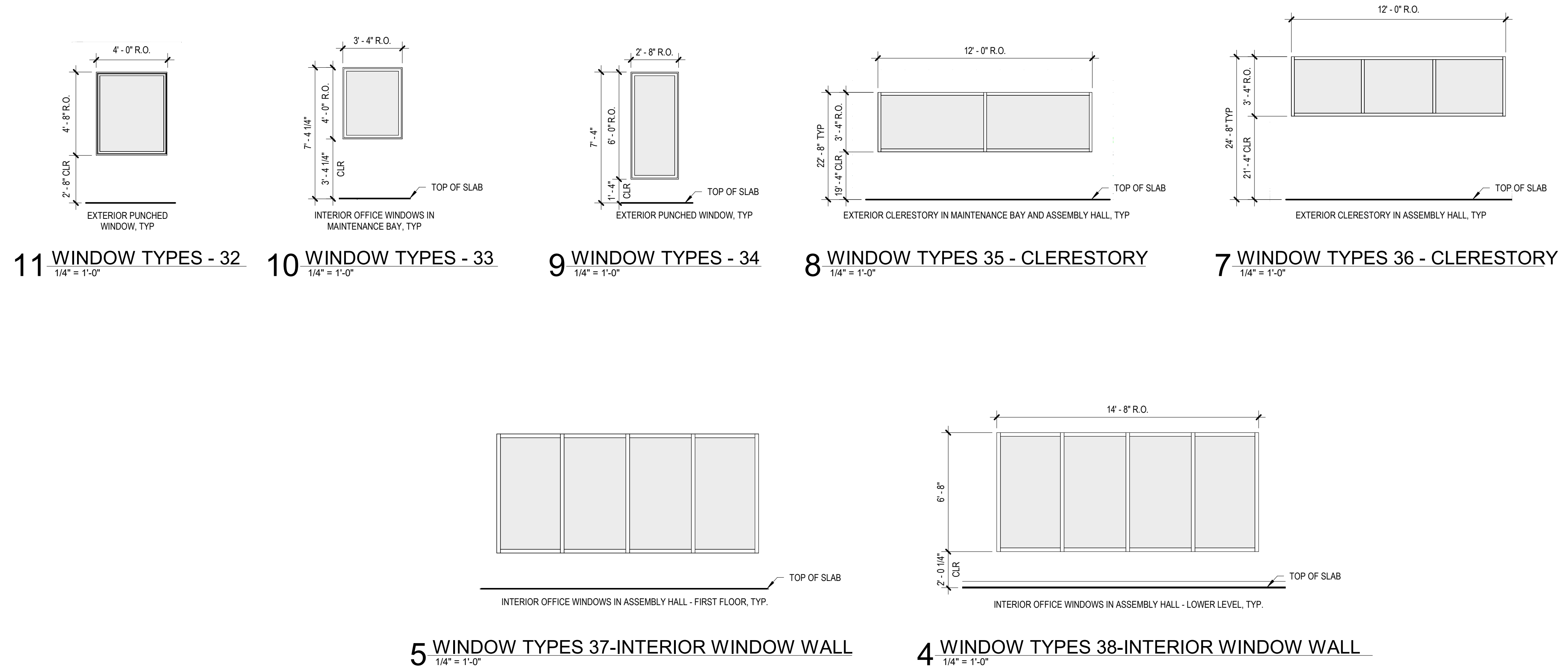


7 DOOR THRESHOLD AT ROOF ACCESS
3" = 1'-0"

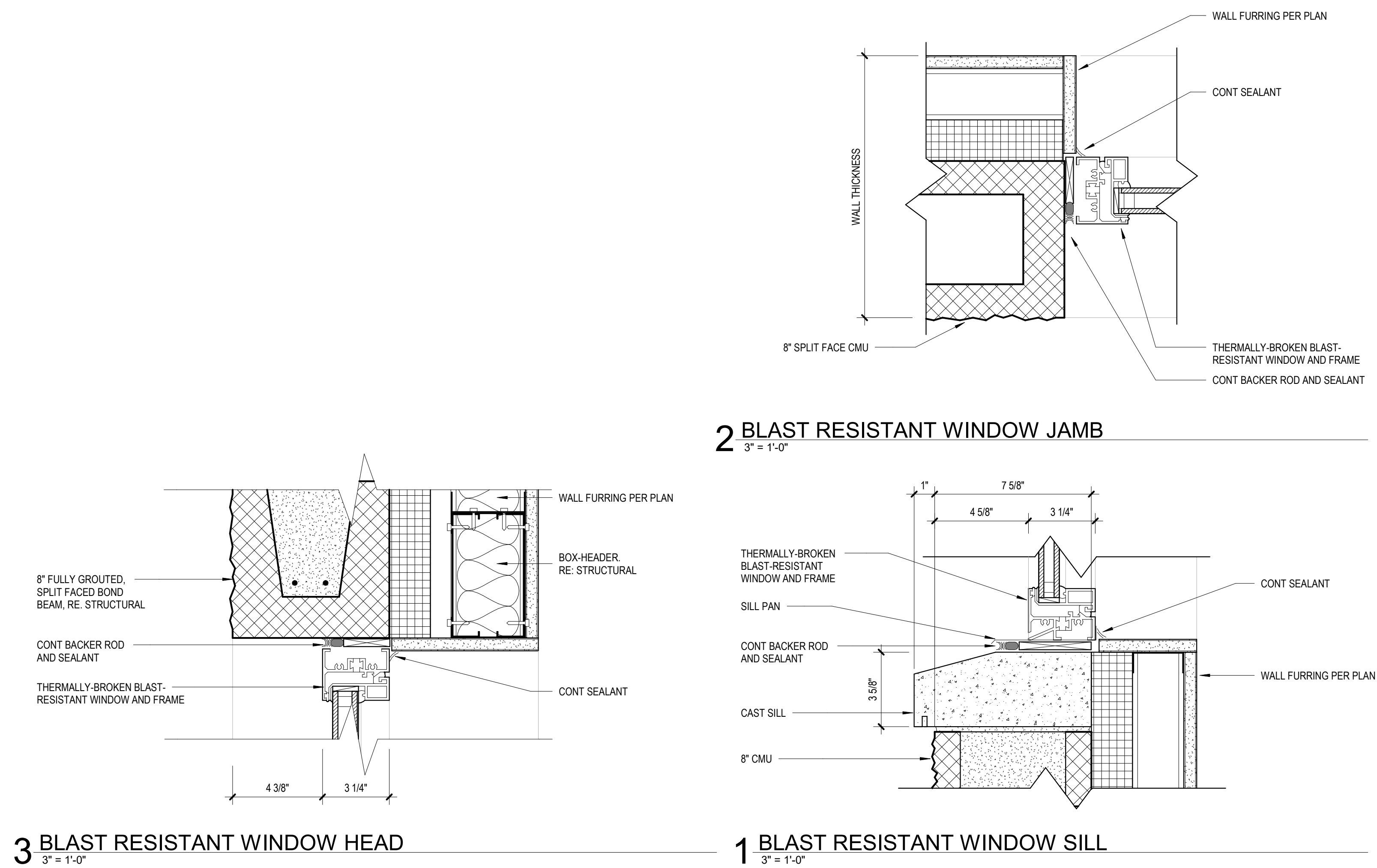
SHEET NOTES

1. BLAST RESISTANT GLAZING SYSTEM TO BE DESIGN ACCORDANCE WITH UFC 4-010-01, B-3.1.3 (ASTM F 2248 DESIGN APPROACH FOR LAMINATED GLASS GLAZING SYSTEMS) AS WELL AS ASTM F 2248 AND ASTM E 1300.

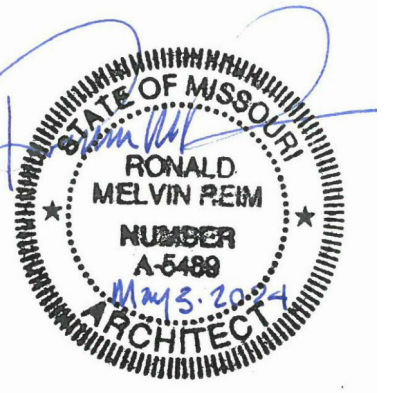
WINDOW TYPES



WINDOW DETAILS



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ONE SOUTH MEMORIAL DRIVE
SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100



720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
www.oatesassociates.com



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ST. LOUIS, MO 63119
T: 314.918.5363
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PROJECT # T2150-01
NGB # PN290179
SITE # 6322
FACILITY # 8136322001

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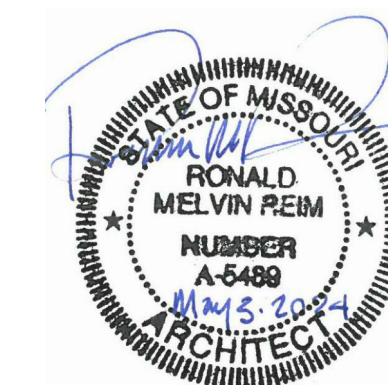
CAD DWG FILE:
DRAWN BY: CK/EH
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
**WINDOW
SCHEDULE, FRAME
TYPES, ELEVATIONS
& DETAILS**

SHEET NUMBER:

A605

151 OF 272 SHEETS
05/03/2024



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CAD DWG FILE:
DRAWN BY: CSH/CJK
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
ENLARGED KITCHEN
EQUIPMENT
REFERENCE PLANS

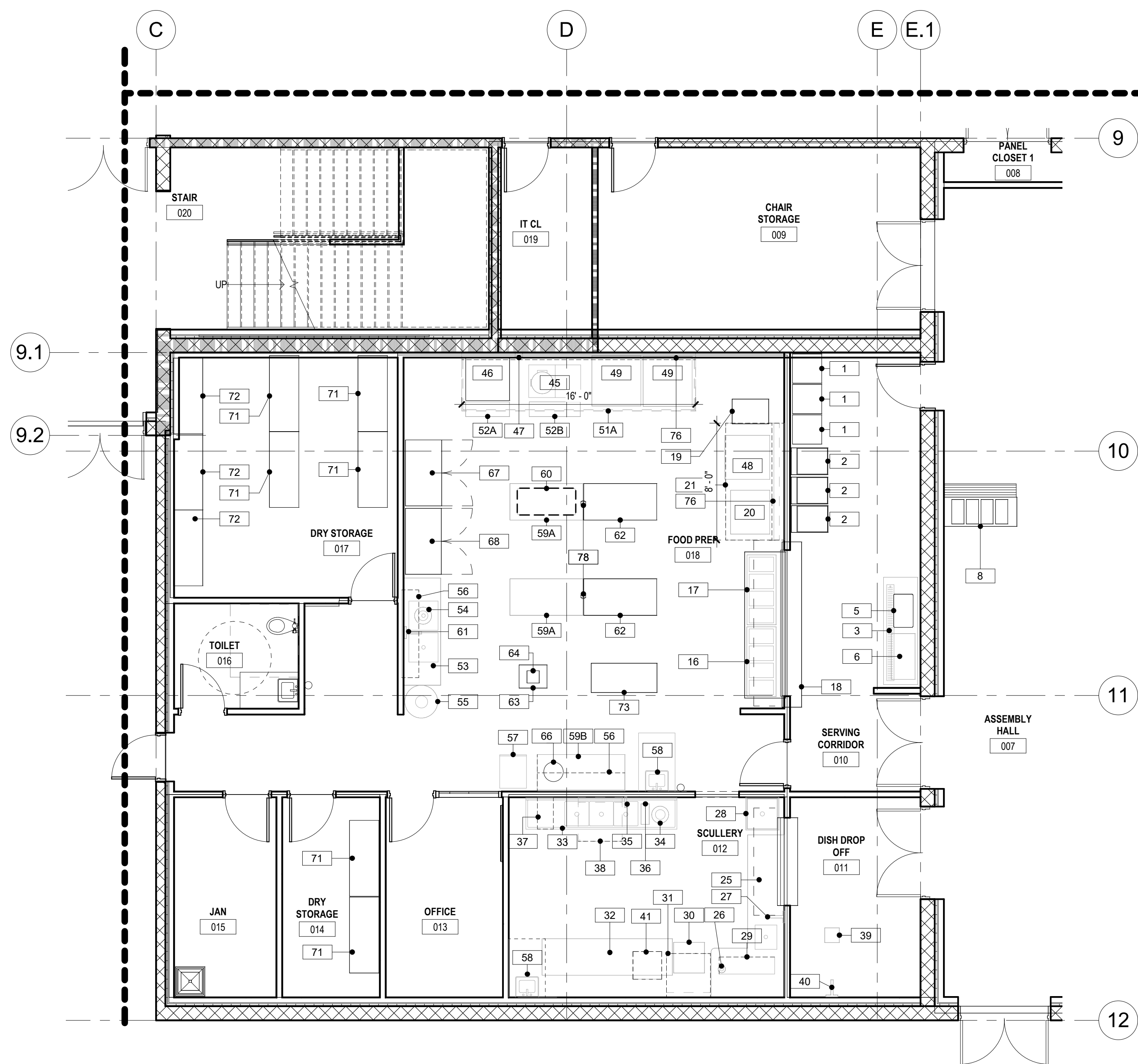
SHEET NUMBER:

QE101

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05/03/2024

EQUIPMENT SCHEDULE

WV	QTY	DESCRIPTION	Manufacturer	PRODUCT #	GF/CI	CF/CI	REMARK
1	3	DISPENSER REGULAR - SERVICE TRAY AND SILVERWARE			X		
2	3	DISPENSER - TABLEWARE			X		
3	1	BEVERAGE COUNTER	ELITE	6-CU		X	
5	1	JUICE DISPENSER			X		
6	1	COFFEE URN	CECILWARE CORPORATION	CL200		X	
8	1	COLD FOOD COUNTER	VOLLRATH	38713	X		
16	1	COLD PAN (DROP IN)	ATLAS METAL	WCM-BT-4		X	
17	1	HOT FOOD TABLE (DROP-IN)	ATLAS METAL	WIH-4		X	
18	1	TRAY SLIDE			X		
19	1	FOOD WARMING CABINET			X		
20	1	GRIDDLE	COOKING PERFORMANCE GROUP	36GTRBNL		X	
21	1	EXHAUST HOOD - GRIDDLE	GREENHECK	GHDW-144		X	
25	1	SOILED DISH TABLE	EAGLE GROUP	SDTLR-120-14/3		X	
26	1	GARBAGE DISPOSAL	SALVAJOR	705500G		X	
27	1	SPRAY ASSEMBLY	ASSURE PARTS	190FPRSFA12K		X	
28	1	SILVER SOAK SINK	JOHN BOOS	PB-SS		X	
29	1	WALL MOUNTED SHELF	REGENCY SPACE SOLUTIONS	600PS1248		X	
30	1	DISHWASHING MACHINE	NOBLE WAREWASHING	NOBLE HT-180		X	
31	1	EXHAUST HOOD SYSTEM & FIRE SYSTEM	GREENHECK	GDI-16		X	
32	1	CLEAN DISH TABLE	ADVANCE TABCO	DTC-S60-108R		X	
33	1	3 COMPARTMENT SINK	EAGLE GROUP	600S324242X		X	
34	1	GARBAGE DISPOSAL	INSINKERATOR	SS-500		X	
35	1	SPRAY ASSEMBLY	T&S BRASS AND BRONZE WORKS, INC.	B-0133-12-CR-B		X	
36	1	SINK HEATER	HATCO	3CS-3		X	
37	1	BOOSTER HEATER	HATCO	C-13		X	
38	1	CONDENSATE HOOD (AT FINAL RINSE FAUCET)	GREENHECK	GDI-16		X	
39	1	FLOOR TROUGH	REGENCY PLUMBING AND HARDWARE	600FS1212SS		X	
40	1	SPRAY ASSEMBLY	ASSURE PARTS	190FPRSFA12K		X	
41	1	BOOSTER HEATER	HATCO	S-13		X	
45	1	TILTING KETTLE	VULCAN	K20GLT		X	
46	1	TILTING SKILLET	VULCAN	VG30		X	
47	1	POT FILLER	T&S BRASS AND BRONZE WORKS, INC.	B-0610		X	
48	1	GAS RANGE	VULCAN	V4B36C		X	
49	2	CONVECTION OVEN	VULCAN	VC44GD		X	
51A	1	EXHAUST HOOD SYSTEM & FIRE SYSTEM	GREENHECK	GHDW-192		X	
52A	1	FLOOR TROUGH	REGENCY	600FT1236SS		X	
52B	1	FLOOR TROUGH	REGENCY	600FT1242SS		X	
53	1	VEGETABLE PREPARATION SINK	ADVANCE TABCO	FC-2-2424-18RorL		X	
54	1	GARBAGE DISPOSAL	INSINKERATOR	SS-200-36		X	
55	1	VEGETABLE PEELING MACHINE	HOBART	6430		X	
56	2	WALL MOUNTED SHELF	REGENCY SPACE SOLUTIONS	600WS1272		X	
57	1	ICE MAKER	HOSHIZAKI	KM-520MAJ		X	OPTIONAL BIN B-300
58	2	HAND SINK - WALL HUNG	ADVANCE TABCO	7-PS-85		X	
59A	2	FOOD PREPERATION TABLE	ADVANCE TABCO	ELAG-305		X	
59B	1	FOOD PREPERATION TABLE	ADVANCE TABCO	KLAG-306-X		X	
60	1	KITCHEN UTENSILS RACK	ADVANCE TABCO	SC-48		X	
61	1	SPRAY ASSEMBLY	T&S BRASS AND BRONZE WORKS, INC.	B-0133-12-CR-B		X	
62	2	FOOD PREPERATION TABLE	ADVANCE TABCO	ELAG-306		X	
63	1	FOOD MIXING MACHINE				X	
64	1	MIXER STAND				X	
66	1	MEAT SLICER				X	
67	1	REACH-IN FREEZER				X	
68	1	REACH-IN REFRIGERATOR				X	
71	6	MOBILE SHELVING (DRY STORAGE)				X	
72	3	WALL LOCKERS				X	
73	1	DOLLY TRUCK				X	
76	2	STAINLESS STEEL WALL COVERING				X	
78	2	CHORD DROP RECEPTACLES				X	
CG-01	5	STAINLESS STEEL CORNER GUARD					
MKB	6	Standard installations consist of sliding panels and a fixed back panel with the choice of chalkboard, markerboard, bulletin board, or a combination of these choices.					

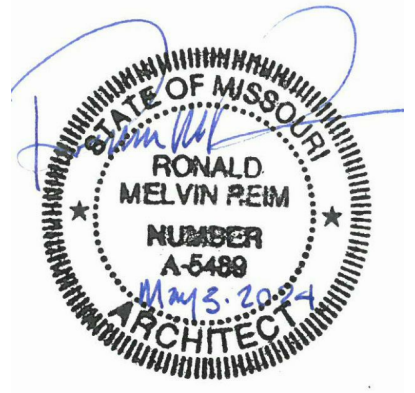


1 ENLARGED EQUIPMENT PLAN - KITCHEN EQUIPMENT
3/16" = 1'-0"



1 ENLARGED EQUIPMENT PLAN - OFFICE EQUIPMENT
3/16" = 1'-0"

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DRAWN BY: MS/HR
CHECKED BY: JBS/JDW
DESIGNED BY: OCULUS

SHEET TITLE:
ENLARGED
REFERENCE OFFICE
FURNITURE LAYOUT

SHEET NUMBER:

QE102

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05/03/2024