



CALIBER COLLISION

GREENFIELD 115- CALIBER COLLISION 710 SE BLUE PARKWAY, LEE'S SUMMIT, MO 64063

F9J -G-CB %! '\$%\$+'8\$&&



OXFORD ARCHITECTURE

2934 SIDCO DRIVE, SUITE 120
NASHVILLE, TENNESSEE 37204
615.256.3455
brad@oxfordarchitecture.com - glen@oxfordarchitecture.com

EQUIPMENT INSTALLER

J4 COMMERCIAL SERVICES
12119 EAST FM. 917
SUITE F
ALVARADO, TX 76009
CONTACT: LENNIE JOBGEN
PH: 817.473.9285

EQUIPMENT SUPPLIER

CAR-O-LINER
SOUTHWEST
2801 SINGLETON STREET
ROWLETT, TX 75088
CONTACT: TIM CURRAN
PH: 972.412.5147

PAINT BOOTH

GLOBAL FINISHING SOLUTIONS
12731 NORWAY ROAD
OSHAO, WI 54758
CONTACT: JIM BIELCH
PH: 715.797.9739
jbielech@globalfinishing.com

SIGN VENDOR

IMAGE NATIONAL
CONTACT: JENNY GOOSSENS
PH: (208) 287-1908
jenny.goossens@imagenational.com

NATIONAL ACCOUNTS

CEILING FANS
BIG ASS SOLUTIONS
2348 INNOVATIVE DRIVE
LEXINGTON, KY 40511
CONTACT: NICK DEETERS
PH: 859.629.7658
nicholas.deeters@bigassfans.com

NATIONAL ACCOUNTS

INTERIOR/EXTERIOR LIGHTING
CITY LIGHTING
216 OVERHILL DRIVE
SUITE 102
MOORESVILLE, NC 28117
CONTACT: TREY ADAMS
PH: 704.235.3133
tadam@citylighting.com

NATIONAL ACCOUNTS

OVERHEAD DOORS
CLOPAY BUILDING PRODUCTS
8385 DUKE BOULEVARD
MASON, OH 45040
PH: 1.800.526.4331 OPTION 5
cs@clopay.com

OWNER / DEVELOPER

CROSS DEVELOPMENT
4336 MARSH RIDGE RD.
CARROLLTON, TX 75010
CONTACT: NICK FORE
DEVELOPMENT MANAGER
Cell: 513.505.2714
Fax: 513.672.9390
nfore@crossdevelopment.net

RESPONSIBILITY MATRIX									
ITEM	FURNISHED			INSTALLED			REMARKS		
	GENERAL CONTR.	DEVELOPER	CALIBER EQUIPMENT SUPP.	GENERAL CONTR.	DEVELOPER	CALIBER EQUIPMENT SUPP.			
							THE G.C. SHALL BE RESPONSIBLE TO SUPPLY & INSTALL ANY ITEMS NOT LISTED AS BEING SUPPLIED BY OTHERS.		
GENERAL CONSTRUCTION									
EXTERIOR WALL FRAMING	X			X					REFER TO PLANS
INTERIOR WALL FRAMING	X			X					REFER TO PLANS
FINISHED FLOORING AND BASE	X			X					REFER TO PLANS
MILLWORK	X			X					RECEPTION AREA, BREAKROOM, AND BULLPEN - REFER NOTE #1
PAINTING	X			X					REFER TO PLANS
CEILING	X			X					INCLUDES CEILING TILE,GRID, AND/OR GYP. BOARD
DOORS, FRAMES HARDWARE	X			X					REFER NOTE #3
PRE-ENGINEERED MTL BLDG.		X		X					GC TO ERECT METAL BUILDING [REFER TO METAL BUILDING PLANS], REFER NOTE #8
INSULATION	X			X					ROOF DECK & WALLS
STONE VENEER	X			X					REFER NOTE #5
LANDSCAPE	X			X					WORK PER LANDSCAPE PLAN AND SPECIFICATIONS, REFER NOTE #7
WINDOW TREATMENTS	X			X					REFER TO INTERIOR ELEVATIONS, REFER NOTE #10
METAL ROOFING		X		X					REFER TO MTL. BLDG PLANS
GUTTERS & DOWNSPOUTS		X		X					REFER TO MTL. BLDG PLANS
METAL FASCIA EAVE TRIM		X		X					REFER TO MTL. BLDG PLANS
METAL PARAPET COPING		X		X					REFER TO MTL. BLDG PLANS
WASH BAY FRAMING		X		X					REFER TO MTL. BLDG PLANS
EXTERIOR STORAGE FRAMING		X		X					REFER TO MTL. BLDG PLANS
ENTRANCE & WINDOW CANOPIES	X			X					REFER TO CP-1 ON THE FINISH SCHEDULE
SIGNAGE			X						REFER NOTE #9
MONUMENT SIGN			X						REFER NOTE #9
MAILBOX (IF REQUIRED BY POST MASTER	X			X					INQUIRE WITH LOCAL POSTMASTER ON MAIL DELIVERY REQUIREMENTS
ELECTRICAL									
ELECTRICAL SWITCH GEAR & PANELS	X			X					PROVIDED BY GENERAL CONTRACTOR THROUGH LIGHTING VENDOR [REFER NOTE #2]
LIGHTING CONTROLLER	X			X					REFER TO PLANS
UTILITY CONNECTIONS	X			X					REFER TO PLANS
LOW VOLTAGE WIRING	X			X					REFER TO PLANS
SIGNAGE CIRCUITS	X			X					SIGNAGE PROVIDED, PERMITTED & INSTALLED BY CALIBER COLLISION SIGNAGE SUPPLIER
LIGHTING	X			X					RECEPTACLES AND SWITCH PLATES TO BE WHITE
CONDUIT, WIRING, AND J-BOXES	X			X					
PLUMBING									
SANITARY SEWER CONNECTIONS	X			X					REFER TO PLANS
PLUMBING FIXTURES	X			X					REFER TO PLANS
PLUMBING FIXTURE INSTALLATION	X			X					REFER TO PLANS
ELECTRIC WATER COOLER	X			X					REFER TO PLANS
PIPING	X			X					REFER TO PLANS
EMERGENCY EYE WASH			X			X			REFER TO PLANS
MECHANICAL									
EXHAUST DUCTS	X			X					REFER TO PLANS
CURBS - ROOF TOP EQUIP				X					REFER TO PLANS
UTILITY CONNECTIONS	X			X					REFER TO PLANS
ROOFTOP UNITS	X			X					REFER TO PLANS
EXHAUST FANS	X			X					REFER TO PLANS
DUCTWORK & DISTRIBUTION	X			X					REFER TO PLANS
TELEPHONE, DATA & SPEAKERS									
DATA EQUIPMENT & NETWORK CABLING			X				X		
DATA HARD CONDUIT PATHWAY RING & STRING SYSTEM	X			X					GC TO INSTALL HARD CONDUIT PATHWAY, RING AND STRING SYSTEM , FROM IT ROOM TO DATA DESTINATION POINT (REF: MEP DATA PLAN)
SPEAKERS, NETWORK CABLING & CONNECTIONS			X				X		PROVIDED AND INSTALLED BY CALIBER COLLISION TELECOM VENDOR
TELEPHONE BACKBOARD	X			X					PROVIDED AND INSTALLED BY GC PER DETAILS ON SHEET A4.2 & MEP SHEETS
SPECIALTY SYSTEMS PLUS EQUIPMENT									
FIRE EXTINGUISHERS	X			X					LOCATIONS PER FIRE MARSHALL
DECOR PACKAGE	X			X					GRAPHICS PROVIDED AND INSTALLED BY CALIBER COLLISION
FURNITURE		X				X			
CAMERA EQUIP., COMPUTERS, POS, SERVER RACK & AV SYSTEM		X				X			PROVIDED AND INSTALLED BY CALIBER COLLISION TELECOM VENDOR
PAINT AND PREP BOOTHS		X			X				BOOTHS PROVIDED BY CALIBER COLLISION & INSTALLED BY REGIONAL CERTIFIED BOOTH INSTALLER
PAINT, PREP BOOTH, AND FRAME RACK PITS	X				X				REFER TO PLANS
FRAME RACK		X				X			RACKS PROVIDED BY CALIBER COLLISION & INSTALLED BY FRAME RACK VENDOR
AIR HOSE REELS, AIR COMPRESSOR & WELDER CORD DROPS			X				X		
BIG ASS FANS	X			X					REFER NOTE #6 (NO SUBSTITUTIONS)
NOTES:									
1.GC IS FULLY RESPONSIBLE FOR OBTAINING BIDS & ORDERING COMPLETE MILLWORK PACKAGE, INCLUDING FULL COORDINATION OF THE DELIVERY OF MILLWORK CRATES FROM THE TRUCK INTO THE OFFICE SPACE; AS WELL AS, INSTALLATION OF ALL NEW MILLWORK FIXTURES, GC WILL CONTACT "MILLWORK VENDOR" FOR DELIVERY COORDINATION & ALL INSTALLATION QUESTIONS. ALL MILLWORK FIXTURES SHALL BE PROVIDED AND SHIPPED TO JOB SITE BY "MILLWORK VENDOR". THE PREFERRED MILLWORK VENDOR IS "CABINETS WEST", 8945 DIPLOMACY ROW DALLAS, TX 75247 (TANDY WEST 214-766-1158, LEAVE A MESSAGE), WWW.CABINETSWESTINC.COM (GC SHALL OBTAIN A BID FROM THE "PREFERRED MILLWORK VENDOR", BUT THE GC IS NOT REQUIRED TO USE THEM.)									
2. GC IS FULLY RESPONSIBLE FOR OBTAINING BIDS & ORDERING THE COMPLETE ELECTRICAL SWITCHGEAR / LIGHTING PACKAGE, INCLUDING FULL COORDINATION OF THE DELIVERY OF ORDERS; AS WELL AS, INSTALLATION OF ALL NEW EQUIPMENT & FIXTURES. CONTACT TREY ADAMS OR CHRIS SCHWALZIED WITH CITY LIGHTING PRODUCTS - 216 OVERHILL DRIVE, STE 102, MOORESVILLE, N.C. (704) 235-3130 WWW.CITYLIGHTING.COM (GC SHALL OBTAIN A BID FROM THE "PREFERRED LIGHTING VENDOR", BUT THE GC IS NOT REQUIRED TO USE THEM.									
3. REFER TO ARCHITECTURAL SPECIFICATIONS AND DOOR SCHEDULE & ASSOCIATED NOTES ON SHEET A4.0 FOR ALL DOOR HARDWARE AND KEYING SCHEDULE.									
4. TELEPHONE BACKBOARD TO BE SUPPLIED AND INSTALLED BY GC. REFER ELECTRICAL DRAWINGS, PHONE BOARD TO BE LOCATED PER THE PLANS [REFER SHEET A4.0 & A4.1], COORDINATE SERVER LOCATION WITH FLOOR PLAN AND ELECTRICAL PLAN.									
5. STONE VENEER (REFER FINISH PLAN AND SCHEDULES FOR CONTACT).									
6. GENERAL CONTRACTOR TO PURCHASE USING THE CALIBER COLLISION ACCOUNT. GENERAL CONTRACTOR TO PROVIDE CIRCUIT FOR EACH FAN AS REQUIRED. INSTALLED BY GENERAL CONTRACTORS ELECTRICIAN. FIRE ALARM CONTRACTOR TO MAKE PROVISION FOR CONNECTION TO FAN RELAY.									
7. LANDSCAPE SUB-CONTRACTOR TO INCLUDE A ONE (1) YEAR MAINTENANCE AGREEMENT WITHIN THE BID.									
8. G.C RESPONSIBLE TO RENT ROOF SEAMER EQUIPMENT FOR PROPER INSTALLATION OF MTL BUILDING ROOFING									
9. G.C RESPONSIBLE TO PROVIDE CONDUIT AND ALL ELECTRICAL CONNECTIONS FOR THE MONUMENT SIGN AND SIGNAGE THAT IS PROVIDED BY CALIBER COLLISION.									
10.G.C RESPONSIBLE FOR PROVIDING AND INSTALLING WINDOW SHADES AT ALL WINDOWS. REFER TO ARCHITECTURAL SPECS									

APPLICABLE CODES [SUBJECT TO LOCAL JURISDICTIONS]	
BUILDING	2018 IBC [INTERNATIONAL BUILDING CODE]
FIRE	2018 IFC [INTERNATIONAL FIRE CODE]
MECHANICAL	2018 IMC [INTERNATIONAL MECHANICAL CODE]
PLUMBING	2018 IPC [INTERNATIONAL PLUMBING CODE]
ELECTRICAL	2017 NEC [NATIONAL ELECTRICAL CODE]
ENERGY CODE	2018 IECC [INTERNATIONAL ENERGY CONSERVATION CODE]
FUEL GAS	2018 IFGC [INTERNATIONAL FUEL GAS CODE]
RESIDENTIAL	2018 IRC [INTERNATIONAL RESIDENTIAL CODE]
ACCESSIBILITY	2009 ICC / ANSI A117.1 [ACCESSIBILITY AND USABILITY CODE]

OCCUPANT LOAD CALCULATIONS						
AREA	SQUARE FOOTAGE	OCC. LOAD CALC.	WIDTH FACTOR	REQD.	PROVIDED WIDTH (NO. OF DRS.)	
LOBBY 100	567 S.F.	S.F./100 = 6	x 0.15	0.9"	6'-0" (2 DOORS)	
OFFICE 101	98 S.F.	S.F./100 = 1	x 0.15	0.15"	3'-0" (1 DOORS)	
OFFICE 102	98 S.F.	S.F./100 = 1	x 0.15	0.15"	3'-0" (1 DOORS)	
A BREAK ROOM 103	138 S.F.	S.F./100 = 2	x 0.15	0.3"	3'-0" (FRAMED OPENING)	
FIRE RISER ROOM 114	35 S.F.	UNOCCUPIED			3'-0" (1 DOORS)	
BULLPEN 104	144 S.F.	S.F./100 = 2	x 0.15	0.3"	4'-0" (FRAMED OPENING)	
CLOSET 105	25 S.F.	S.F./100=1	x 0.15	0.15"	3'-0" (1 DOORS)	
IT 106	16 S.F.	S.F./100=1	x0.15	0.15"	3'-0" (1 DOORS)	
WOMEN'S RESTROOM 107	67 S.F.	S.F./100 = 1	x 0.15	0.15"	3'-0" (1 DOORS)	
HALLWAY 108	X	UNOCCUPIED				
MEN'S RESTROOM 109	90 S.F.	S.F./100 = 1	x 0.15	0.15"	3'-0" (1 DOORS)	
ELECTRICAL ROOM 110	75 S.F.	S.F./100 = 1	x 0.15	0.15"	3'-0" (1 DOORS)	
WORKSHOP 111	9,550 S.F.	S.F./300 = 32	x 0.15	4.8	9'-0" (3 DOORS)	
EQUIPMENT SHED 112	126 S.F.	UNOCCUPIED				
DETAIL 113	450 S.F.	S.F./300 = 2	x 0.15	0.3"	3'-0" (1 DOORS)	

BUILDING OCCUPANCIES		
B	BUSINESS (OFFICE AREA)	-1,712 S.F.
S1	MODERATE HAZARD STORAGE (SERVICE BAY AREA)	-10,665 S.F.
BUILDING TOTAL S.F.		-12,389 S.F.
B OCCUPANCY	1,712 S.F. / 100	= 17 OCCUPANTS
S1 OCCUPANCY	10,665 S.F. / 300	= 36 OCCUPANTS
TOTAL OCC. LOAD		= 53 OCCUPANTS

TYPE OF CONSTRUCTION
TYPE IIB PER SECTION 602.2 AND TABLES 601 AND 602 (2018 IBC)

NOTE
PAINT BOOTH AND MIXING ROOM TO BE EQUIPPED WITH INDEPENDENT DRY CHEM FIRE SUPPRESSION SYSTEM BY BOOTH VENDOR.

ALLOWABLE AREA
THIS BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM AND IS SURROUNDED ON ALL SIDES BY 60 FEET MINIMUM OF PERMANENT OPEN SPACE AND COMPLIES WITH SECTION 506.2 [2018 IBC] (8 OCCUPANCY-92,000 S.F. PER TABLE 506.2) (S1 OCCUPANCY-70,000 S.F. PER TABLE 506.2)

PLUMBING FIXTURE CALCULATIONS (OFFICE)	
<u>PER TABLE 403.1 (2018 IPC)</u>	
TOTAL BUILDING OCCUPANT "B" LOAD	= 17
LOAD DISTRIBUTION:	50% MALE & 50% FEMALE
DISTRIBUTION LOAD:	8.5 MALE & 8.5 FEMALE
<u>LAVATORIES REQUIRED</u>	1/40 MALE & 1/40 FEMALE
MALE LAVATORIES	1/40 = 1 (1 PROVIDED)
FEMALE LAVATORIES	1/40 = 1 (1 PROVIDED)
<u>WATER CLOSETS REQUIRED</u>	1/25 MALE & 1/25 FEMALE
MALE WATER CLOSETS	1/25 = 1 (1 PROVIDED)
FEMALE WATER CLOSETS	1/25 = 1 (1 PROVIDED)
<u>DRINKING FOUNTAINS REQUIRED</u>	1/100 OCCUPANTS
17 OCCUPANTS / 100	= 1 DRINKING FOUNTAIN
NOTE: (1) HI/LO DRINKING FOUNTAIN IS PROVIDED AND (1) REFRIGERATOR WITH WATER BOTTLES AT THE LOBBY AREA.	

PLUMBING FIXTURE CALCULATIONS (SHOP)	
PER TABLE 403.1 (2018 IPC)	
TOTAL BUILDING OCCUPANT "SI" LOAD	= 36
LAVATORIES REQUIRED	
LAVATORIES	1/100 = 1 (1 PROVIDED)
WATER CLOSETS REQUIRED	
WATER CLOSETS	1/100 = 1 (1 PROVIDED)
DRINKING FOUNTAINS REQUIRED	1/100 OCCUPANTS
36 OCCUPANTS / 100	= 1 DRINKING FOUNTAIN
NOTE: (1) HI/LO DRINKING FOUNTAIN IS PROVIDED	

ENERGY NOTES	[BASED ON IECC 2018-ZONE-4a]
ROOF INSULATION: R-19 CAVITY VALUE & R-25 CONTINUOUS VALUE EXTERIOR WALL R VALUE MIN: R-30 WINDOW U-FACTOR = 0.30 OR BETTER WINDOW SHGC = 0.34 PER 2018 IECC OR BETTER NOTE: REFER TO PROJECT ENERGY MODEL OR COMCHECK FOR REQUIRED ENERGY VALUES FOR WALLS, ROOF AND OPENINGS.	

DEFERRED / SEPARATE PERMIT ISSUES AND COMPLIANCE	
<u>LIST OF DEFERRED PERMIT ISSUES:</u>	
- FIRE SAFETY	- SIGNAGE
- HAZARDOUS MATERIALS	- ACCESS CONTROL

1. WE UNDERSTAND THAT I/WE WILL NOT BE AUTHORIZED ANY INSPECTION OF THE DEFERRED ITEMS PROPOSED PRIOR TO THE SUBMITTAL AND APPROVAL OF PLANS AND/OR CALCULATIONS FOR THOSE DEFERRED ITEMS.
2. IT IS UNDERSTOOD THAT PLANS FOR THE PROJECT HAVE, AT THIS TIME, BEEN REVIEWED FOR COMPLIANCE WITH ALL APPLICABLE STATE AND CITY REGULATIONS, AND THAT THE PROJECT AS A WHOLE HAS BEEN APPROVED BY THE CITY, WITH THE EXCEPTION OF THE DEFERRED ITEMS LISTED."
3. SPRAY BOOTHS ARE SHOWN FOR REFERENCE ONLY AND ARE NOT PART OF THIS SCOPE OF WORK. SPRAY BOOTHS WILL BE PERMITTED SEPARATELY.

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2934 Sidco Drive
Suite 120
Nashville, TN 37204

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All measurements and items portrayed on this sheet are deemed to be accurate by architect, however all bidding General Contractors should field verify the actual conditions. Any changes to the scope of work, and thus potential change orders, should be identified and communicated in your price submittal to Cross Development / Caliber Collision.

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Revisions:	
Revisions:	

Code Data

Sheet Number:

CS.01





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Suite 120
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Job Number: 2071

Issue Date: 12.10.2021

Revisions:
Revisions:
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Revisions:
Revisions:

Site Plan

Sheet Number:

AS1.0

SPECIFICATIONS (TBD)

CONTRACTOR CONSTRUCTION NOTES

PARKING LOT PAINT SPECIFICATIONS - 15 MIL APPLICATION (0.015 INCH THICKNESS):

SEE PROJECT MANUAL FOR PARKING LOT PAINT SPECIFICATIONS

SEE PROJECT MANUAL FOR FENCE SPECIFICATIONS

KEYNOTES

CONTRACTOR CONSTRUCTION NOTES

(REFER ONLY TO NOTES THAT ARE INDICATED BY NUMERICAL KEY ON PLAN):

- 1 ACCESSIBLE PARKING (SEE CIVIL).
- 2 6" DIAMETER BOLLARD (SEE CIVIL)
- 3 TERMINATE CURB AND GUTTER.
- 4 CURB AND GUTTER (SEE CIVIL).
- 5 KNOX BOX.
- 6 6FT. DUMPSTER ENCLOSURE (REF. AS1.1 FOR DETAIL).
- 7 CONCRETE TRANSFORMER PAD (SEE CIVIL).
- 8 SITE LIGHTING (SEE STRUCTURAL AND ELECTRICAL).
- 9 SITE SIGNAGE
- 10 TRANSITION FROM ON-SITE ASPHALT TO CITY OF LEE'S SUMMIT STANDARD CONCRETE FOR COMMERCIAL DRIVEWAYS. ENSURE SMOOTH TRANSITION.
- 11 134" X 61" GAS CLEAR SPACE AREA.
- 12 140" X 54" ELECTRICAL CLEAR SPACE AREA.
- 13 STOP SIGN (SEE CIVIL).
- 14 24" WHITE THERMOPLASTIC PAINT STOP BAR (SEE CIVIL).
- 15 SAND OIL SEPARATOR.
- 16 6" DECORATIVE SECURITY FENCE (SEE CIVIL).

NOTES:

1. SITE PLAN IS FOR REFERENCE ONLY-SEE CIVIL SITE PERMIT

PROPERTY LINE

PROJECT LEGEND

PIN: 61-510-08-00-0-00-000

ADDRESS: 710 SE 7TH TERRACE
LEE'S SUMMIT, MO 64063

PARCEL ZONING: ZONED : CP-2, PLANNED
COMMUNITY COMMERCIAL

BUILDING AREA: = ±11,582 S.F.

PARCEL SIZE: = ±1.38 ACRES

IMPERVIOUS COVER = 0.90 AC (65%)

BUILDING SETBACKS:
FRONT YARD: = 15 FEET
SIDE YARD: = 10 FEET
BACK YARD: = 20 FEET

PARKING REQUIRED: 3 PER SERVICE BAY
= 12 BAYS X 3
=36

PARKING PROVIDED: 15 CUSTOMER SPACES PROVIDED
50 STORAGE SPACES PROVIDED
2 ADA SPACES PROVIDES

TOTAL = 65 SPACES TOTAL

SITE PLAN LEGEND

CURB AND GUTTER

HANDICAP PARKING & STRIPING

TRANSFORMER

CONCRETE

TRASH AREA

LIGHT STANDARD

EXISTING WATER VALVE

PIPE BOLLARD

EXISTING SANITARY SEWER MAIN
MANHOLE

WATER METER AND BACKFLOW

UE/UT UNDERGROUND ELECTRIC LINE/
UNDERGROUND TELEPHONE LINE

OE OVERHEAD ELECTRIC

OETC OVERHEAD ELECTRIC TELEPHONE CABLE

W WATER LINE

GAS GAS LINE

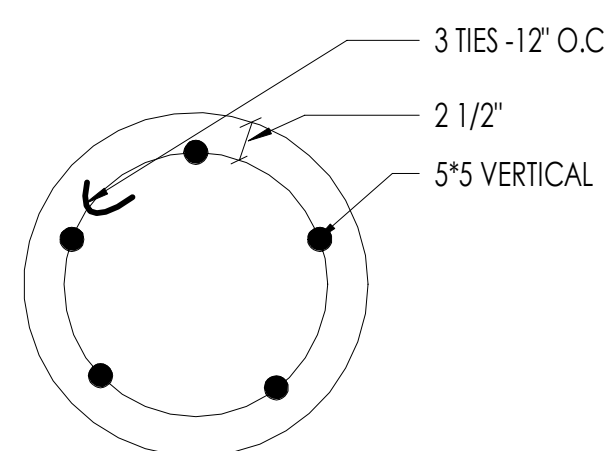
SS SANITARY SEWER LINE

PROPOSED STROM DRAIN

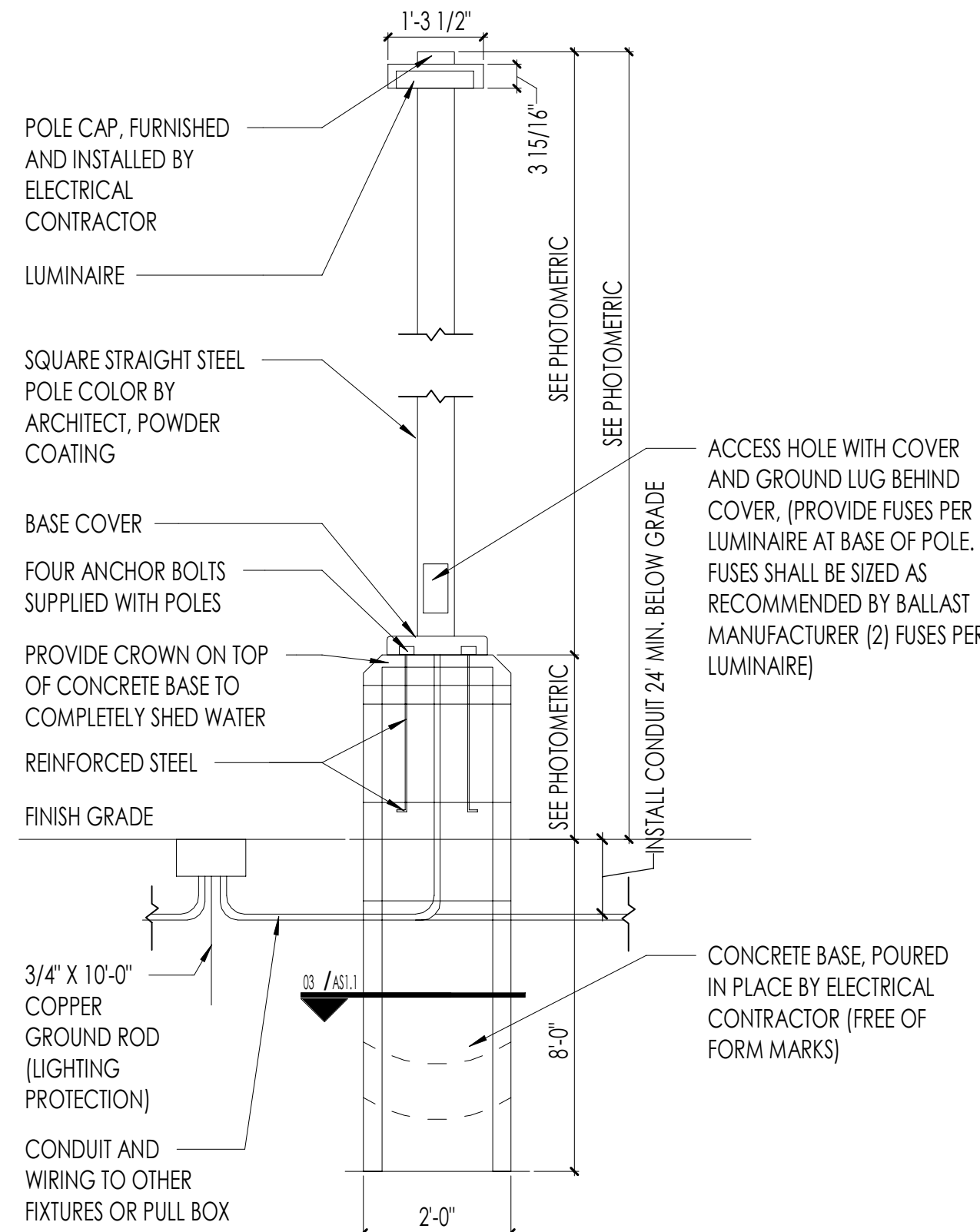
PROPOSED STROM CATCH BASIN

PROPOSED STROM MANHOLE

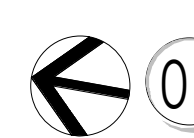
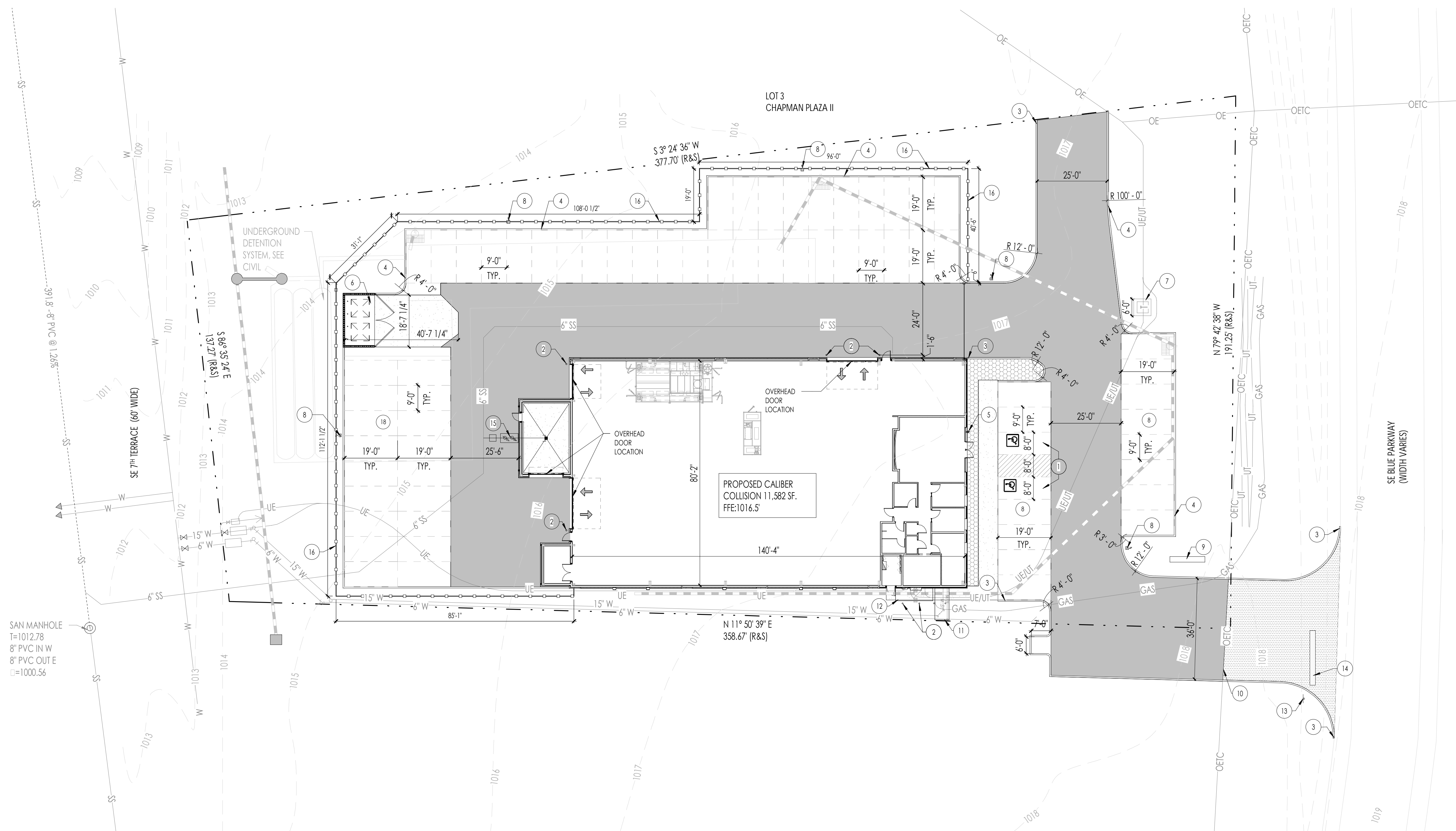
PROPOSED AREA INLET



03 LIGHT POLE BASE DETAIL
SCALE: 1/4" = 1'-0"



02 LIGHT POLE BASE DETAIL
SCALE: 1/2" = 1'-0"



01 SITE PLAN
SCALE: 1" = 20'-0"



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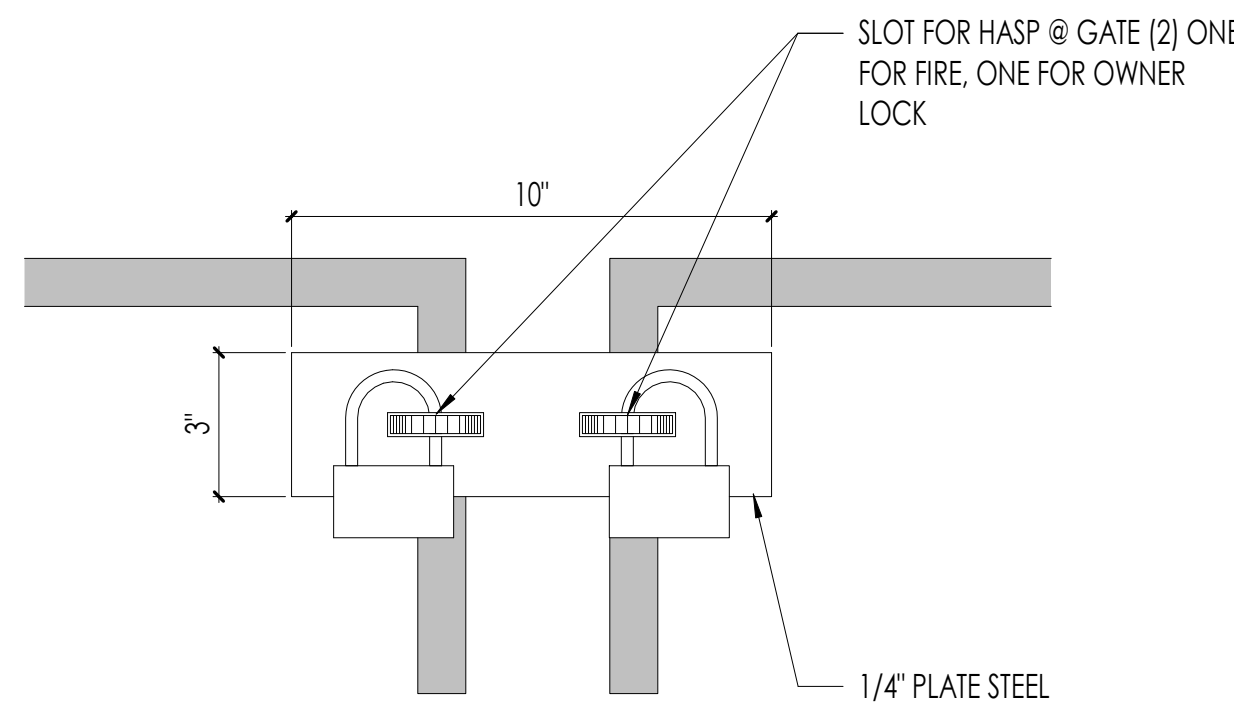
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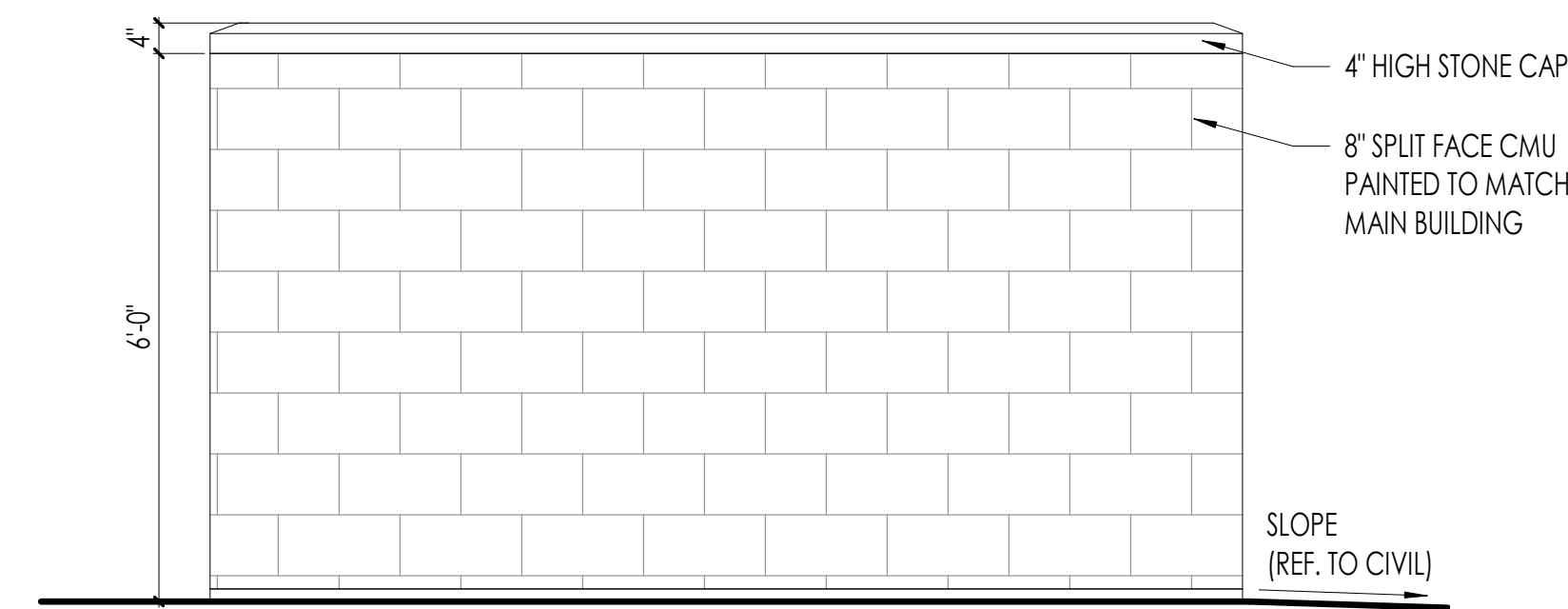


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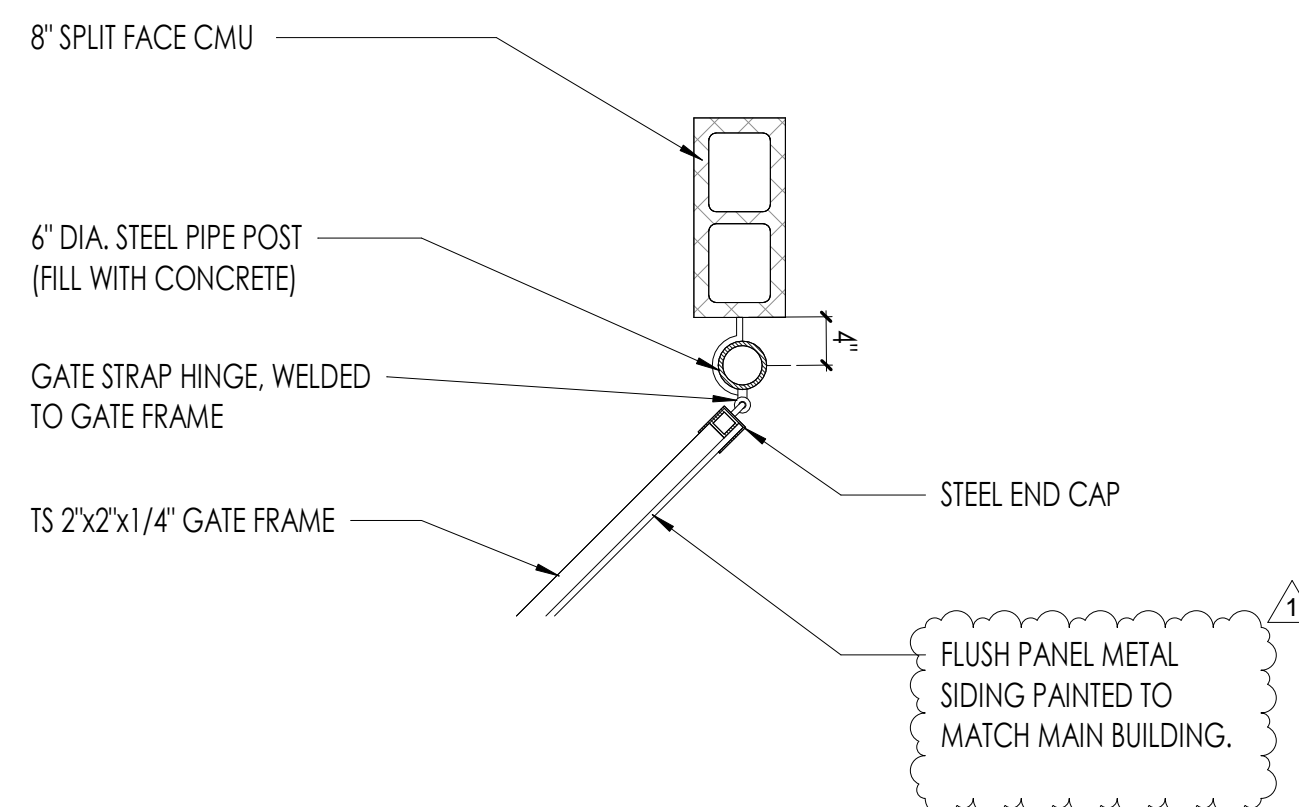
LEE'S SUMMIT,
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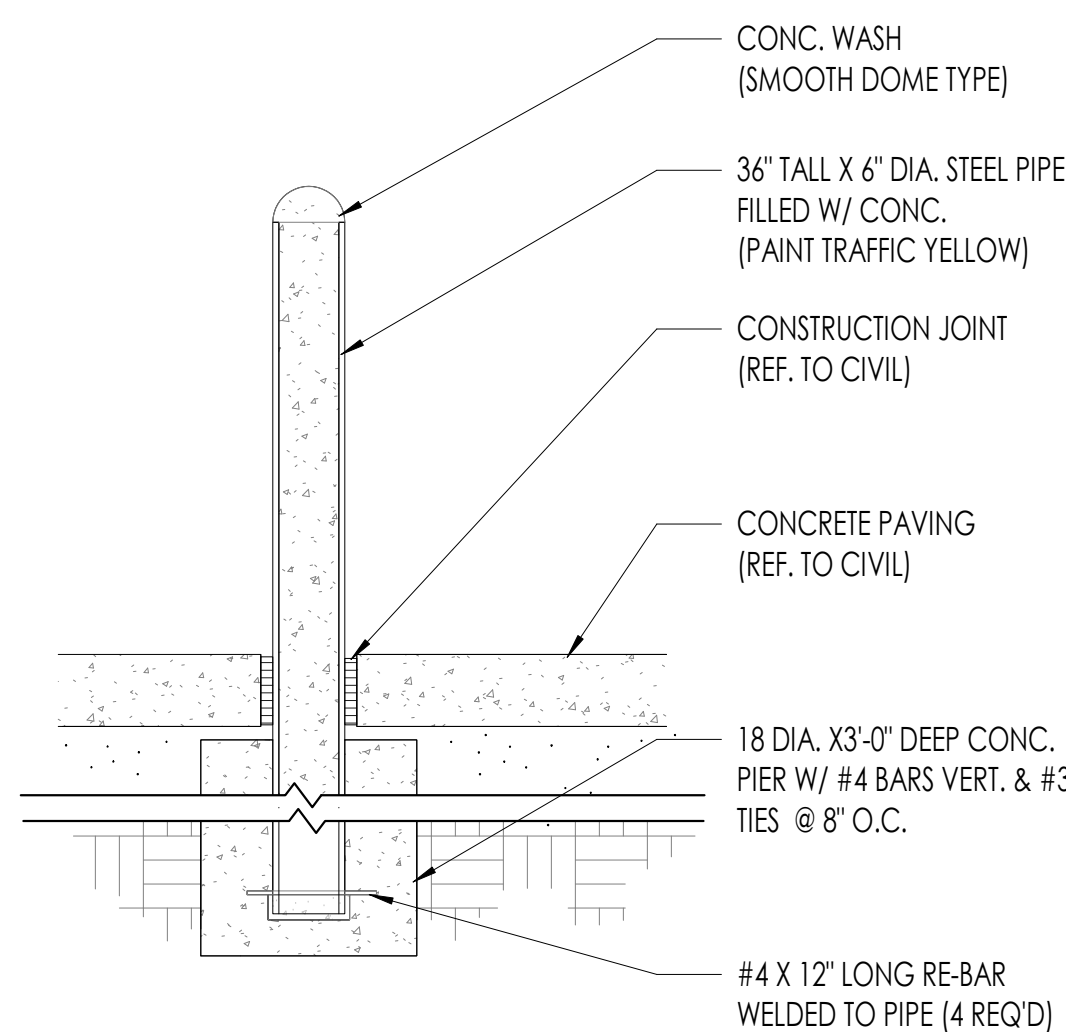
06 GATE CLASP
SCALE: 3" = 1'-0"



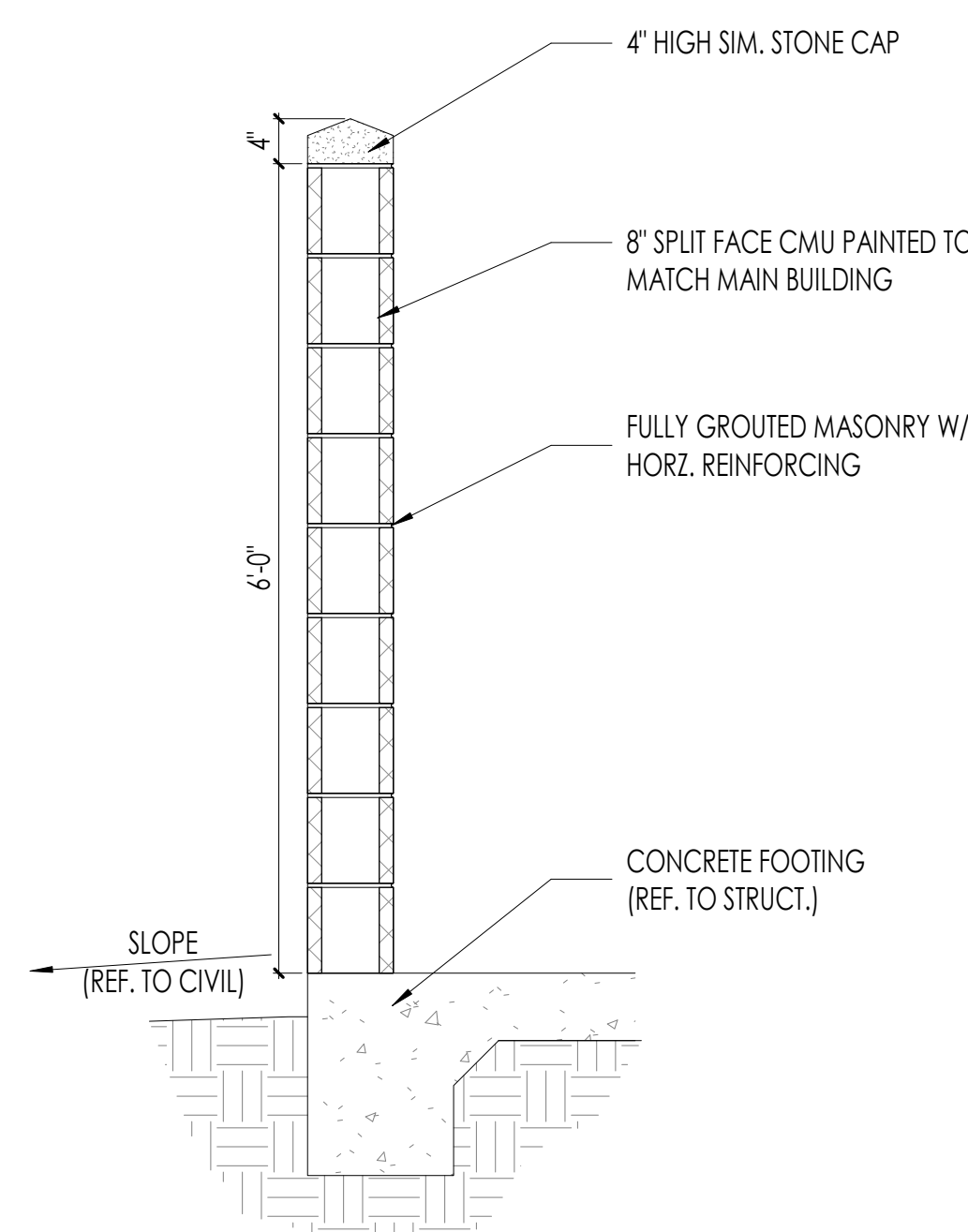
03 DUMPSTER ENCLOSURE SIDE ELEVATION
SCALE: 1/2" = 1'-0"



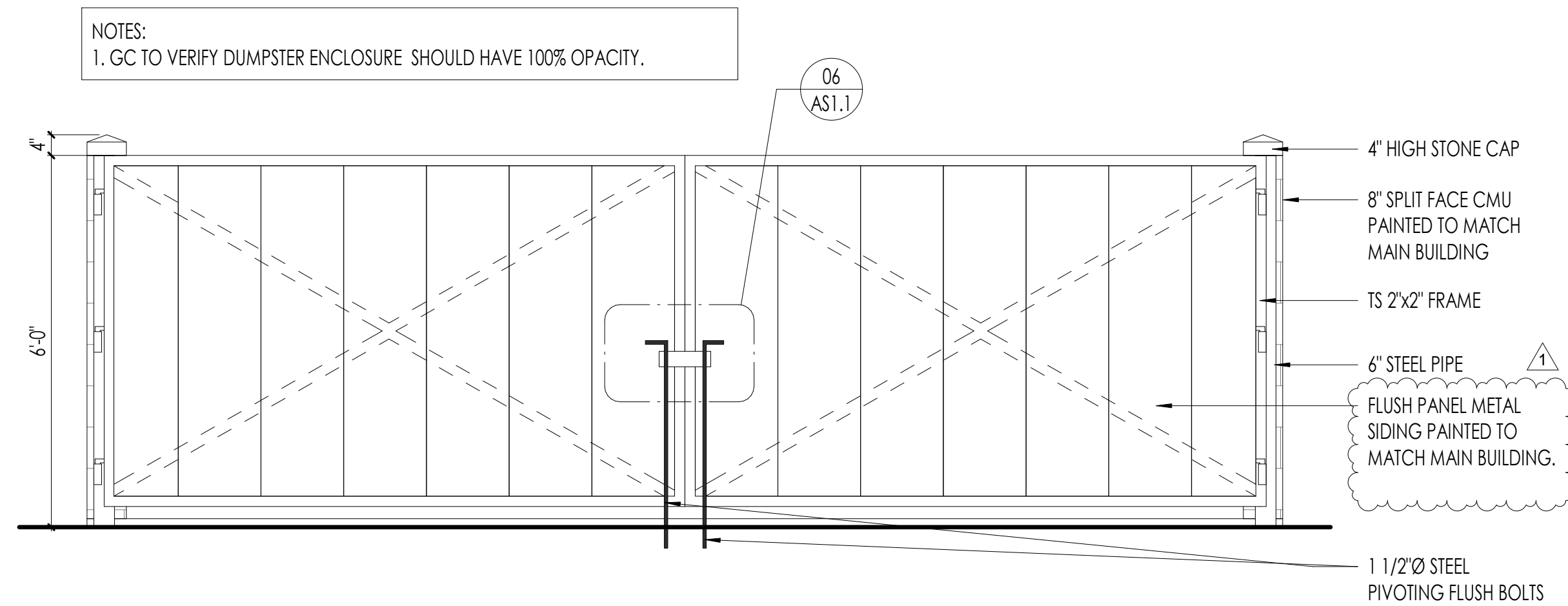
05 GATE DETAILS
SCALE: 3/4" = 1'-0"



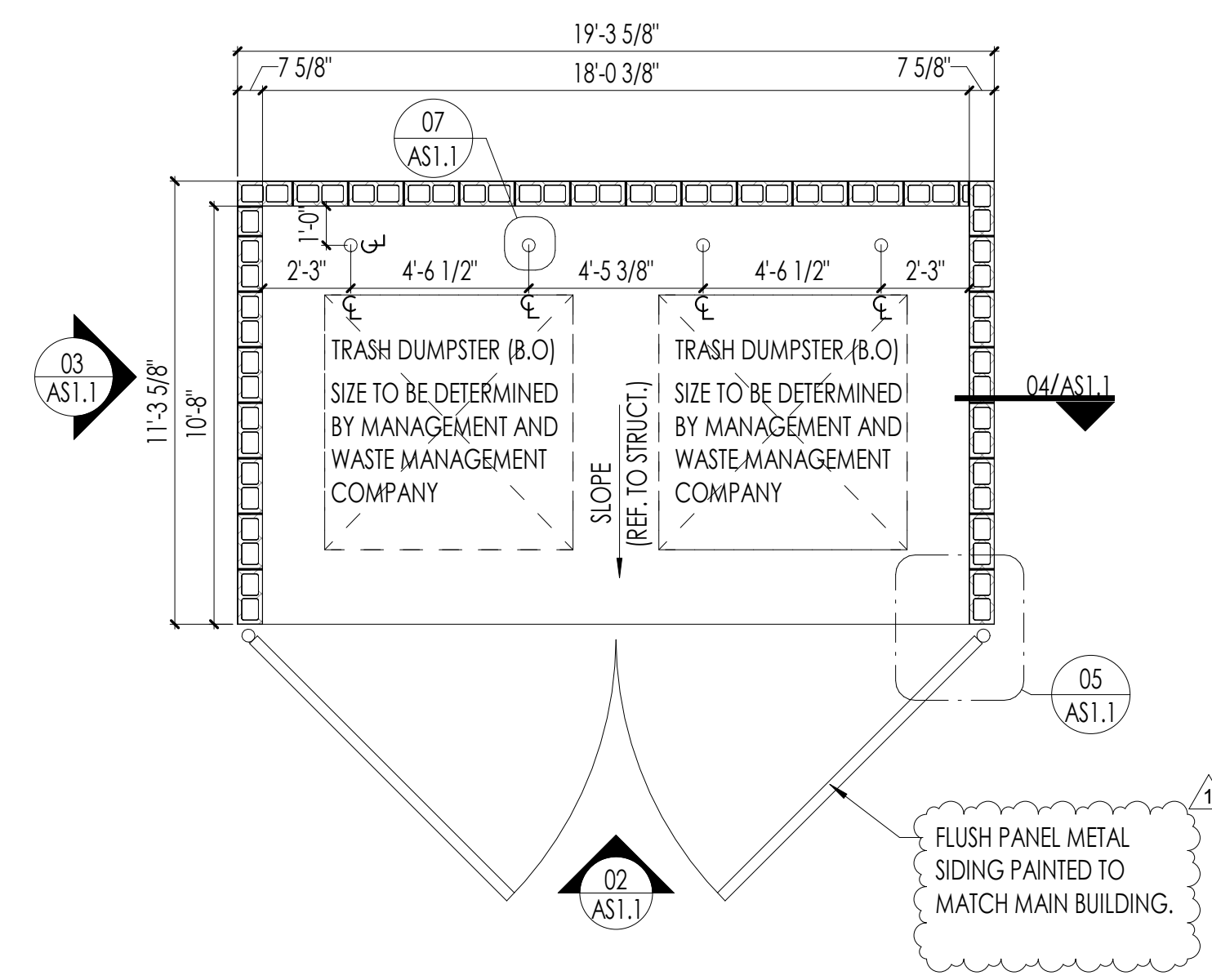
07 BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



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



02 DUMPSTER ENCLOSURE FRONT ELEVATION
SCALE: 1/2" = 1'-0"



01 DUMPSTER ENCLOSURE PLAN
SCALE: 1/4" = 1'-0"

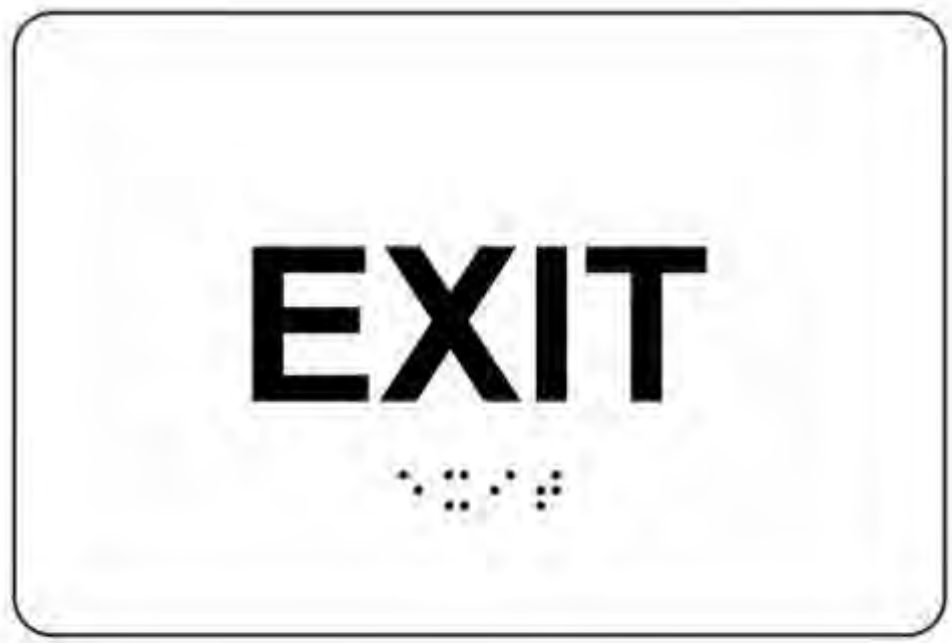
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Site and Trash Enclosure Details



Sheet Number: AS1.1



SMALL FORMAT ADA BRAILLE SIGN CONSTRUCTION



02 TACTILE EXIT SIGN NTS

NOTES:

- INSTALLATION OF INTERIOR FINISHES SHALL COMPLY WITH ALL ASTM E84 OR UL 723 REQUIREMENTS AND IN ACCORDANCE WITH FLAME SPREAD AND SMOKE DEVELOPED INDEXES AS FOLLOWS:

CLASS A: FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.

CLASS B: FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450.

CLASS C: FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.
- INSTALLATION OF INTERIOR FINISHES SHALL HAVE A MINIMUM FLAME SPREAD CLASSIFICATION AS REQUIRED BY IBC TABLE 803.11.

EGRESS REQUIREMENTS

TOTAL OCCUPANT LOAD = 53
53 OCCUPANTS X .20" PER OCCUPANT = 10.6" REQUIRED.
161'-11" PROVIDED. (5 BONUS @32")

EXITS:

EGRESS REQUIREMENTS
TABLE 1006.2.1
SINGLE EXIT ALLOWED
'B' OCCUPANCY = 17
'S1' OCCUPANCY = 36

MAX TRAVEL DISTANCE
'B' OCCUPANCY = 100' (NON-SPRINKLED)
'S1' OCCUPANCY = 100' (NON-SPRINKLED)

SECTION 1020.4 DEAD ENDS
EXCEPTIONS - 20' MAX WITH
NO SPRINKLER IN 'B' AND 'S1' OCCUPANCY

PROJECT DATA

THIS PROJECT IS BASED ON THE REQUIREMENTS OF THE FOLLOWING CODES:

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL RESIDENTIAL CODE
ICC A117.1-2009 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES
ASHRAE 90.1.2010

OCCUPANCY CLASSIFICATION BUSINESS/MODERATE HAZARD STORAGE
CONSTRUCTION TYPE TYPE IIB PER SECTION 602.2 AND TABLES 601 AND 602 OF THE 2018 IBC

BUILDING OCCUPANCIES		OCCUPANCY LOAD
B BUSINESS (OFFICE AREAS AND WALLS) LOBBY/BREAKROOM	885 SQ.FT./100	= 8.85 OR 9
	827 SQ.FT./100	= 8.27 OR 8
S1 MODERATE HAZARD STORAGE (SERVICE BAY AREA)	10665 SQ.FT./300	= 35.5 OR 36
TOTAL BUILDING AREA	12,389 SQ. FT.	= 53
TOTAL OCCUPANT LOAD		

LIFE SAFETY DATA

ITEMS	REQUIRED	PROVIDED
EXIT/EGRESS	53 X 0.20 = 10.6'	161'-11"
MAX. TRAVEL DISTANCE	200'-0"	132'-0"
NUMBER OF EXITS MIN.	3	3
EXIT SEPARATION DISTANCE	20'-0"	43' 1 1/2"

PARTITION LEGEND

CALIBER COLLISION CONTRACTOR CONSTRUCTION LEGEND
METAL STUD WALL
INDICATES FULL HEIGHT FRP U.N.O.
STONE VENEER
INDICATES 8'-0" HIGH FIRE RETARDANT PLYWOOD WAINSCOT
1 1/2" - R-PANEL
CMU WALL

SIGNAGE KEYNOTES

- PROVIDE A TACTILE SIGN "EXIT" WITH BRAILLE INCLUDED. TO BE INSTALLED ON THE LATCH SIDE OF THE DOOR. SEE PLAN FOR MOUNTING LOCATIONS. PROVIDE AN INTERNATIONAL SYMBOL OF ACCESSIBILITY THOSE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 15090 IN FEDERAL STANDARD 595C. SEE DETAIL 2/LS1.0
- PROVIDE AN INTERNATIONAL SYMBOL OF ACCESSIBILITY DECAL ON THE GLASS DOOR. SYMBOL OF ACCESSIBILITY THAT SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 15090 IN FEDERAL STANDARD 595C.
- SIGNAGE: PROVIDE 1" HIGH LETTERS IN CONTRASTING COLORS TO BACKGROUND. TEXT TO READ "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS". SIGNAGE FURNISHED BY AND INSTALLED BY GENERAL CONTRACTOR.

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

2018 IBC - TABLE 1004.1.2

FUNCTION OF SPACE	FLOOR AREA IN SQ. FT. PER OCCUPANT
BUSINESS AREAS (B)	100 GROSS
MODERATE HAZARD STORAGE AREA (S1)	300 GROSS

EXIT WIDTH PER OCCUPANT LOAD

2018 IBC - SECTION 1005.3.2

OCCUPANCY	WITHOUT SPRINKLER SYSTEM		WITH SPRINKLER SYSTEM	
	STAIRWAYS (INCHES PER OCCUPANT)	OTHER EGRESS COMPONENTS (INCHES PER OCCUPANT)	STAIRWAYS (INCHES PER OCCUPANT)	OTHER EGRESS COMPONENTS (INCHES PER OCCUPANT)
OCCUPANCIES OTHER THAN THOSE LISTED BELOW	0.3	0.2	0.2	0.15
HAZARDOUS: H-1, H-2, H-3 AND H-4	0.7	0.4	0.3	0.2
INSTITUTIONAL: 1-2	N/A	N/A	0.3	0.2

EGRESS ACCESS TRAVEL DISTANCE

2018 IBC - TABLE 1017.2

OCCUPANCY	WITHOUT SPRINKLER SYSTEM	WITH SPRINKLER SYSTEM
S1	200	250
B	200	250

ALLOWABLE AREA CALCULATIONS:

BUILDING INFORMATION:

OCCUPANCY CLASSIFICATION: S-1
CONSTRUCTION TYPE: II-B
SPRINKLERED?: NO
PROPOSED NUMBER OF STORIES: 1

	BUILDING PERIMETER LENGTHS (FT)	DISTANCE TO PROPERTY LINE OR TO FAR SIDE OF R.O.W. (FT)
FACING NORTH	81.0	60.0
FACING EAST	141.0	16.0
FACING SOUTH	81.0	60.0
FACING WEST	141.0	60.0

CODE VERSION: 2018 IBC IDENTICAL

ALLOWABLE AREAS AND HEIGHTS:

ALLOWABLE AREA PER FLOOR: 25068 SQ.FT.
TOTAL ALLOWABLE AREA: 25068 SQ.FT.

NOTES:

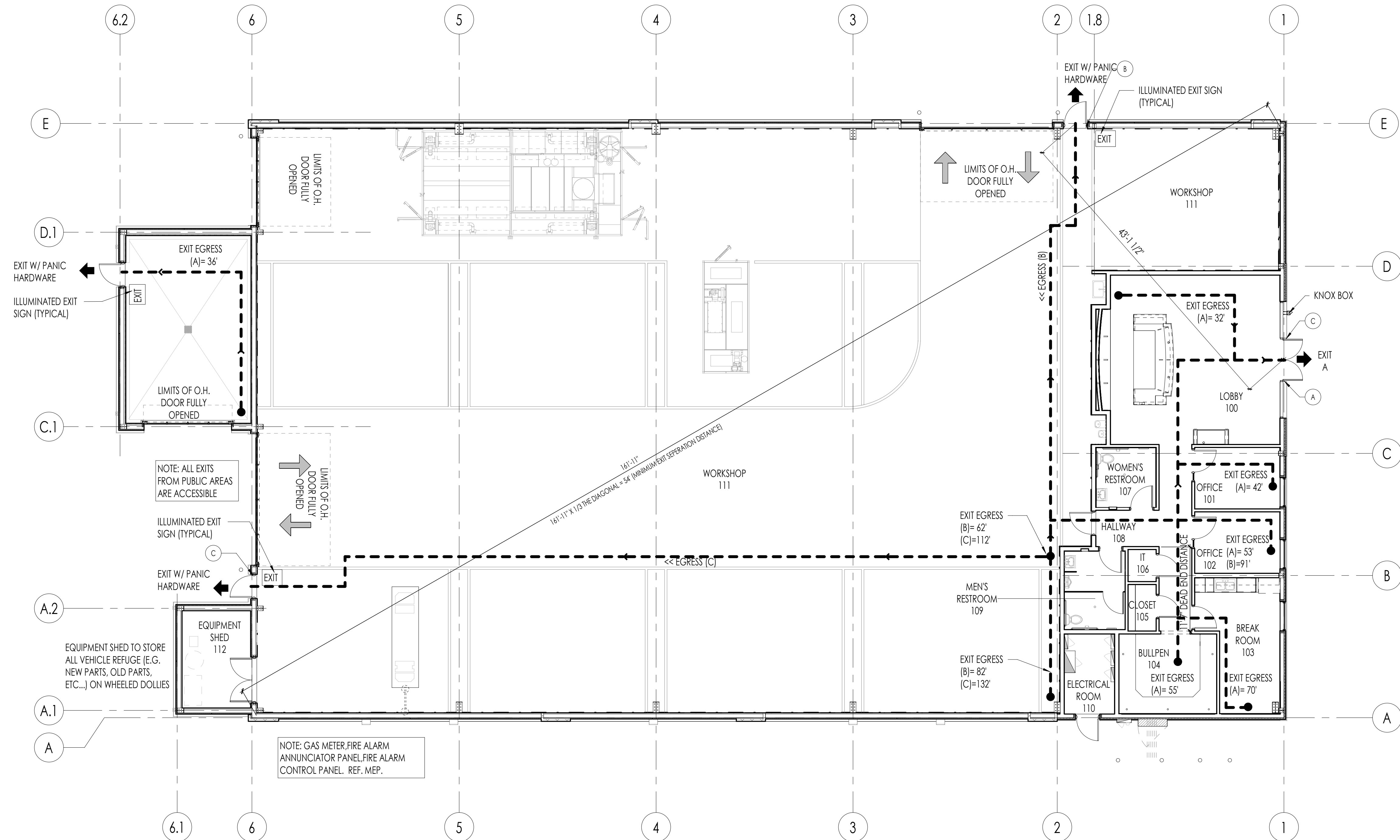
- TABULAR PER FLOOR AREA LIMIT PER CHAPTER 5 = 17500 SQ.FT.
- ALLOW HEIGHT = 55 FT; ALLOW STORIES = 2
GROUP R AND NFPA 13R? NO
NFPA 13 SPRINKLERS? NO
1-2 WITH TYPE IIB, III, IV, OR V? NO
H1, H2, H3, OR H5? NO
- COMPUTE AREA INCREASE DUE TO FRONTAGE: FRONTAGE COEFFICIENT, IF = 0.432
PERIMETER, P = 444 FT
'FRONTAGE' PERIMETER, F = 303 FT
WEIGHTED AVERAGE DISTANCE FROM 'F' = 30 FT
- COMPUTE ALLOWABLE PER STORY AREA, AA = AT + (NS X IF) = 25067.57 SQ.FT.
- MAXIMUM ALLOWABLE AREA = AA X 1 = 25067.57 SQ.FT.
- MAXIMUM NUMBER OF STORIES FOR GROUP R WITH NFPA 13R SPRINKLERS, PER SEC. 903.3.1.2. THIS CRITERIA IS NOT MET, SO STORY LIMIT = 2
- THE REVISED ALLOWABLE HEIGHT IS 55 FT.

CHECK REQUIREMENTS (0 = NO PROBLEM; 1 = NO GOOD); TOTAL NUMBER OF PROBLEMS = 0

- PROPOSED NUMBER OF STORIES <= ALLOWABLE NUMBER OF STORIES. = 0
- PROPOSED NUMBER OF STORIES IS POSITIVE INTEGER. = 0
- SPRINKLER TYPE NFPA 13R CAN ONLY BE USED WITH GROUP R OR I-1 OCCUPANCIES; CHECK AGAIN USING NFPA 13 SPRINKLERS, OR USING NO SPRINKLERS. = 0
- BUILDING PERIMETER LENGTHS AND DISTANCES CANNOT BE NEGATIVE. = 0
- VALUES FOR BOTH BUILDING PERIMETER AND DISTANCE MUST BE ENTERED = 0
- USING NFPA 13 SPRINKLERS TO SUBSTITUTE FOR 1-HR RATING PER NOTE? = 0
- USING NFPA 13 SPRINKLERS TO SUBSTITUTE FOR 1-HR RATING PER NOTE? = 0
- COMBINATION OF OCCUPANCY AND CONSTRUCTION TYPE NOT PERMITTED IN TABLE 503 = 0

WARNINGS:

- NFPA 13D SPRINKLERS MAY BE INSTALLED IN 1-2 FAMILY DWELLINGS PER SEC. 903.3.1.3
- UNLIMITED AREA POSSIBLE WITH YARDS OF 40+ FT AROUND 75% OF BUILDING. PER SEC 507.5 (NOT CALCULATED HERE)



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Job Number: 2071
Issue Date: 12.10.2021
Revisions:
Revisions:
Revisions:
Revisions:
Revisions:
Revisions:

Life Safety Plan

Sheet Number: LS1.0

LEE'S SUMMIT,
MISSOURI

CALIBER
COLLISION



OXFORD
ARCHITECTURE

2934 Sidco Drive
Suite 120
Nashville, TN 37204

Architecture
Planning
Interior Architecture

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
2021.12.10



OXFORD
ARCHITECTURE

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Suite 120
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Architecture
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Interior Architecture



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MISSOURI

PARTITION LEGEND

	METAL STUD WALL
	INDICATES FULL HEIGHT FRP U.N.O.
	STONE VENEER
	INDICATES 8'-0" HIGH FIRE RETARDANT PLYWOOD WAINSCOT
	1 1/2" - R-PANEL
	CMU WALL

CALIBER COLLISION CONTRACTOR CONSTRUCTION LEGEND

GENERAL NOTES

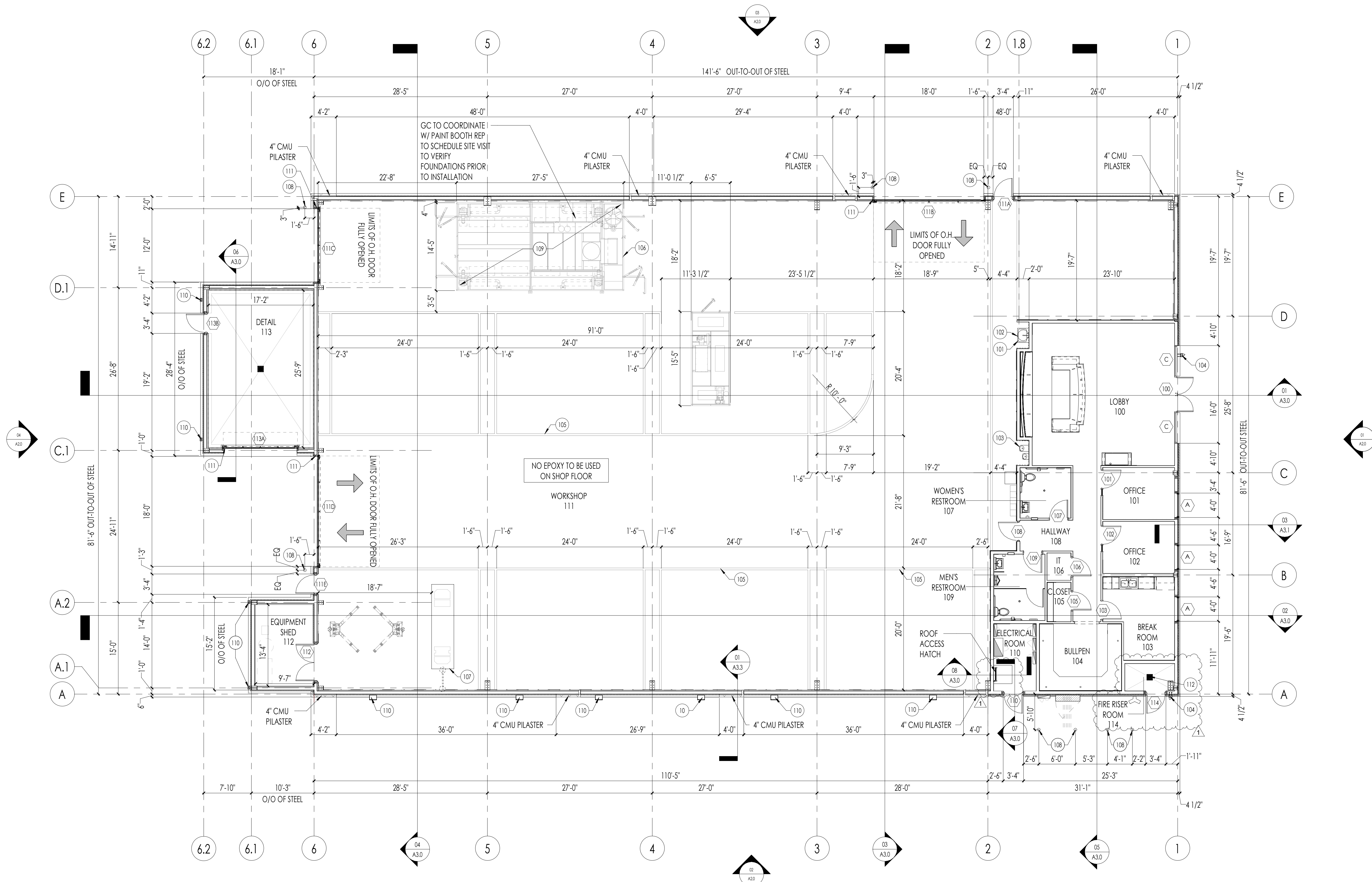
CALIBER COLLISION CONTRACTOR CONSTRUCTION NOTES

(REFERS TO ALL AREAS WITHIN CALIBER COLLISION DEMISED PREMISES):

- ALL DIMENSIONS NOTED OR SHOWN ARE TAKEN FROM FACE OF STUD UNLESS NOTED OTHERWISE.
- SOME EQUIPMENT IS NOT SHOWN FOR CLARITY (REFER SHEET A1.4 FOR ALL EQUIPMENT).
- GC TO INSTALL FIRE EXTINGUISHERS PER THE FIRE MARSHAL RECOMMENDATIONS AND LOCATIONS.
- REFER SHEET A3.4 FOR PARTITION TYPE, CONTROL JOINT, AND METAL STUD INFORMATION.
- SEE A2.0 FOR CONTROL JOINT LOCATIONS AT CMU.

FLOOR PLAN KEYNOTES

- WALL MOUNTED WASH/ MOP SINK.
- WATER HEATER (REFER MEP).
- HILLO WATER FOUNTAIN (REFER MEP).
- KNOX BOX - VERIFY WITH FIRE MARSHAL.
- 4" WIDE STRIPING PAINTED TRAFFIC YELLOW (16" O.C. DIAGONAL PATTERN @ EMERGENCY EGRESS PATHS ONLY IF REQUIRED).
- RECESSED CONCRETE SLAB (REFER STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION).
- VERIFY FRAME RACK LOCATION AND EXACT PLACEMENT OF EQUIPMENT WITH OWNER (REF. SHEET A1.4).
- CONCRETE FILLED STEEL BOLLARD, (REF: A31.0 SHEETS FOR BOLLARD INFORMATION).
- PAINT BOOTH.
- DOWNSPOUTS, REFERENCE MTL BLDG DRAWINGS.
- OH DOOR TO BE PROVIDED BY AND INSTALLED WITH HIGH LIFT KIT BY G.C.
- FLOOR SINK @ FIRE RISER ROOM (REFER MEP).



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Job Number: 2071

Issue Date: 12.10.2021

Revisions: 01.07.2022

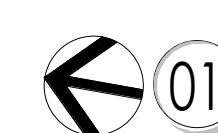
Revisions:

Revisions:

Revisions:

Revisions:

Architectural Floor Plan



ARCHITECTURAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



Sheet Number:

A1.0



OXFORD
ARCHITECTURE

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Suite 120
Nashville, TN 37204

Architecture
Planning
Interior Architecture



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Revisions: 01.07.2022

Revisions:

Revisions:

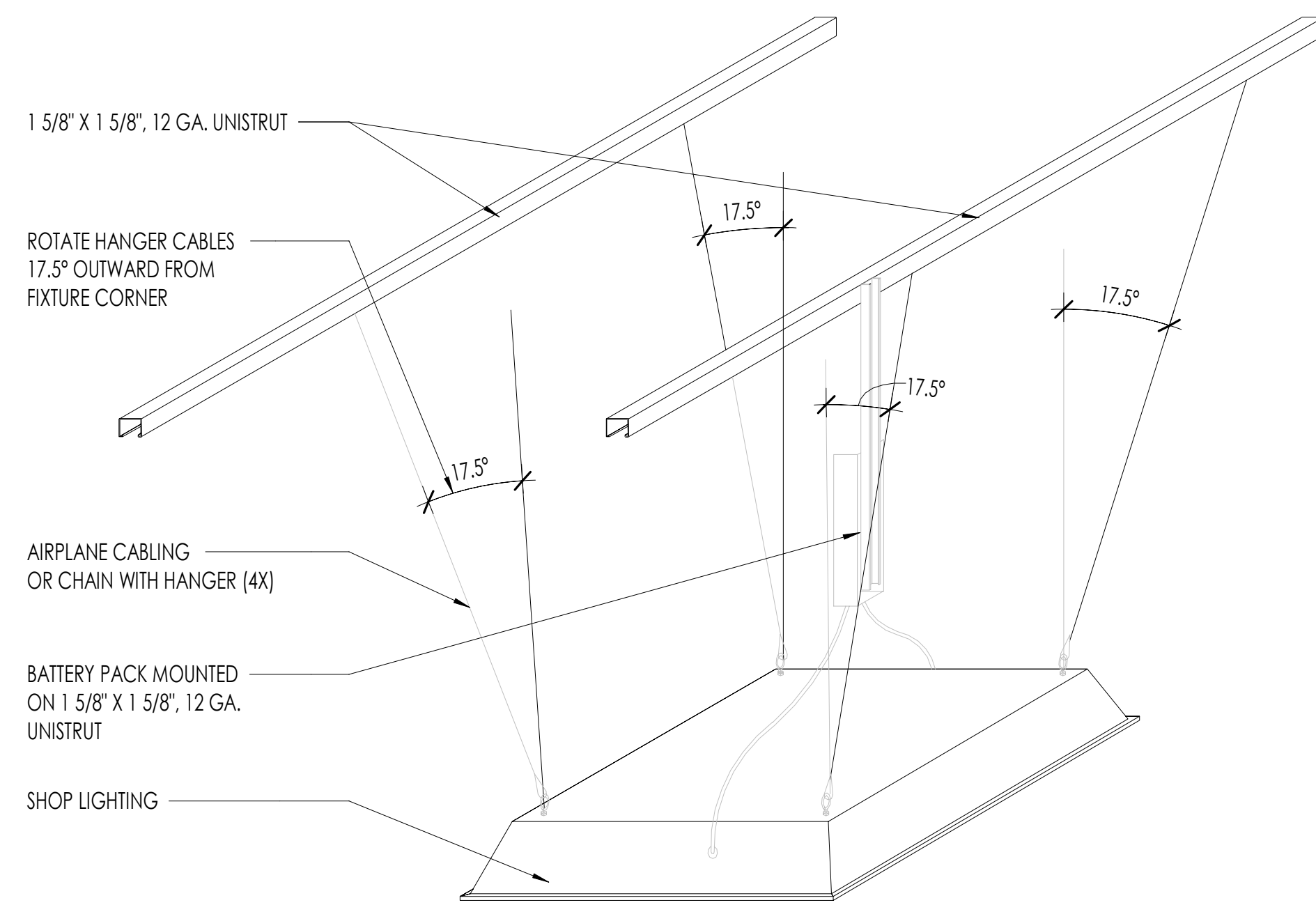
Revisions:

Revisions:

Revisions:

Reflected Ceiling Plan

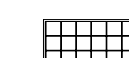
Sheet Number: A1.1



02 SHOP LIGHT & BATTERY PACK MOUNTING
N.T.S

LEGEND:

2'X4' TROFFER FIXTURE



2'X4' TROFFER FIXTURE
(EMERGENCY)



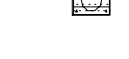
4 POINT AIRCRAFT CABLE
SUSPENDED LIGHT FIXTURE
(MOUNTED @ 12'-0" A.F.F.)



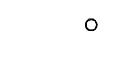
4 POINT AIRCRAFT CABLE
SUSPENDED LIGHT FIXTURE
(MOUNTED @ 12'-0" A.F.F.)
(EMERGENCY)



RECESSED LIGHT FIXTURE



RECESSED WALL WASHER



EXIT LIGHT/DIRECTIONAL EXIT
LIGHT



WALL PACK



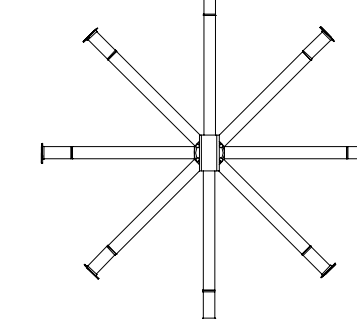
LIGHT FIXTURE AT
DETAIL BAY/EQUIPMENT SHED



SUSPENDED ACOUSTICAL TILE



FAN (REF. MEP)



MECHANICAL VENTS (REF. MEP)



GYPSUM BOARD CEILING



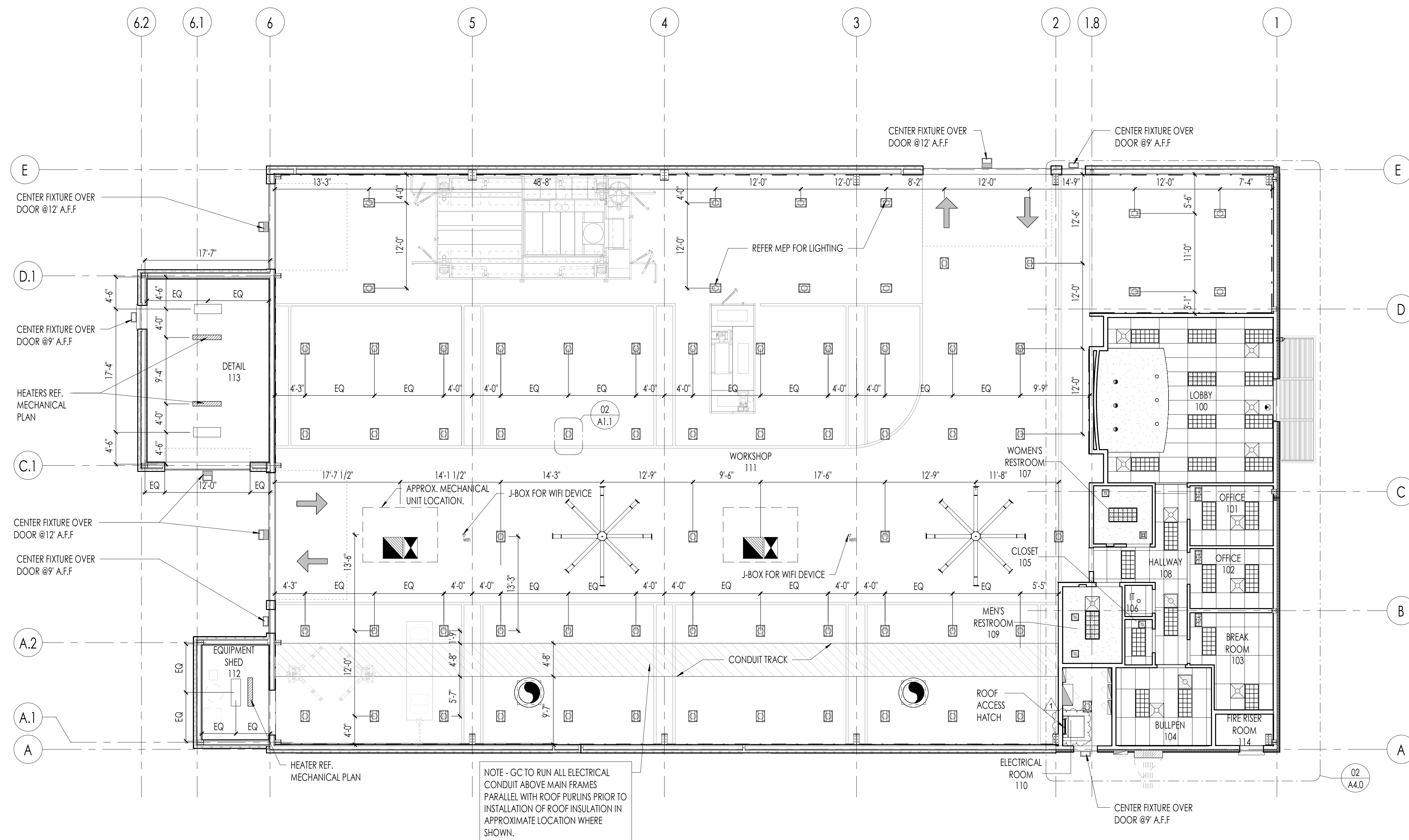
PAINT BOOTH INTAKE/EXHAUST



WALL SCONCE



SUSPENDED HEATER AT DETAIL
BAY



01 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"





OXFORD
ARCHITECTURE

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Architecture
Planning
Interior Architecture



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Job Number: 2071

Issue Date: 12.10.2021

Revisions: 01.07.2022

Revisions:

Revisions:

Revisions:

Revisions:

Revisions:

Roof Plan

Sheet Number:

A1.2

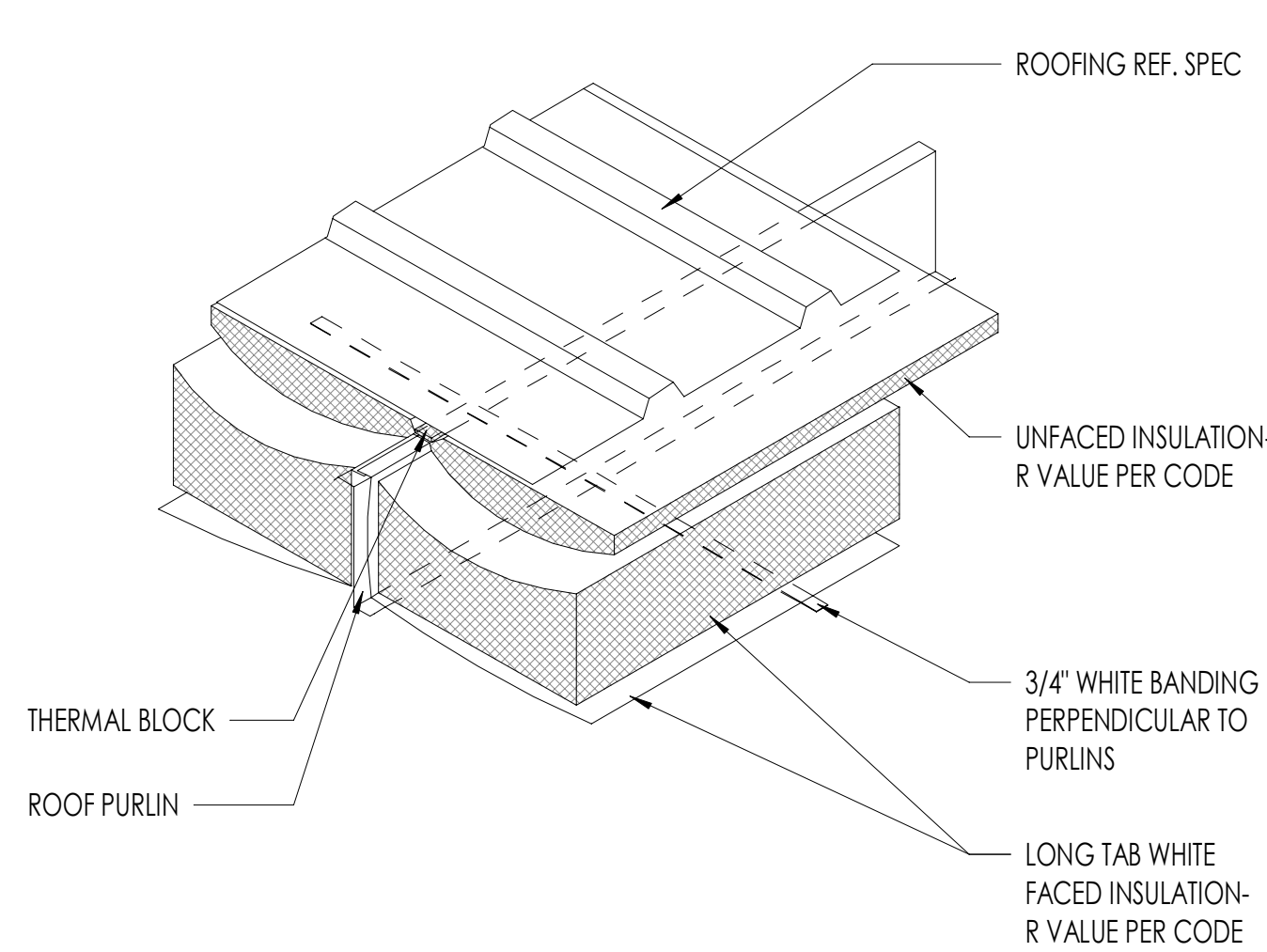
GENERAL NOTE

CALIBER COLLISION CONTRACTOR
CONSTRUCTION NOTES

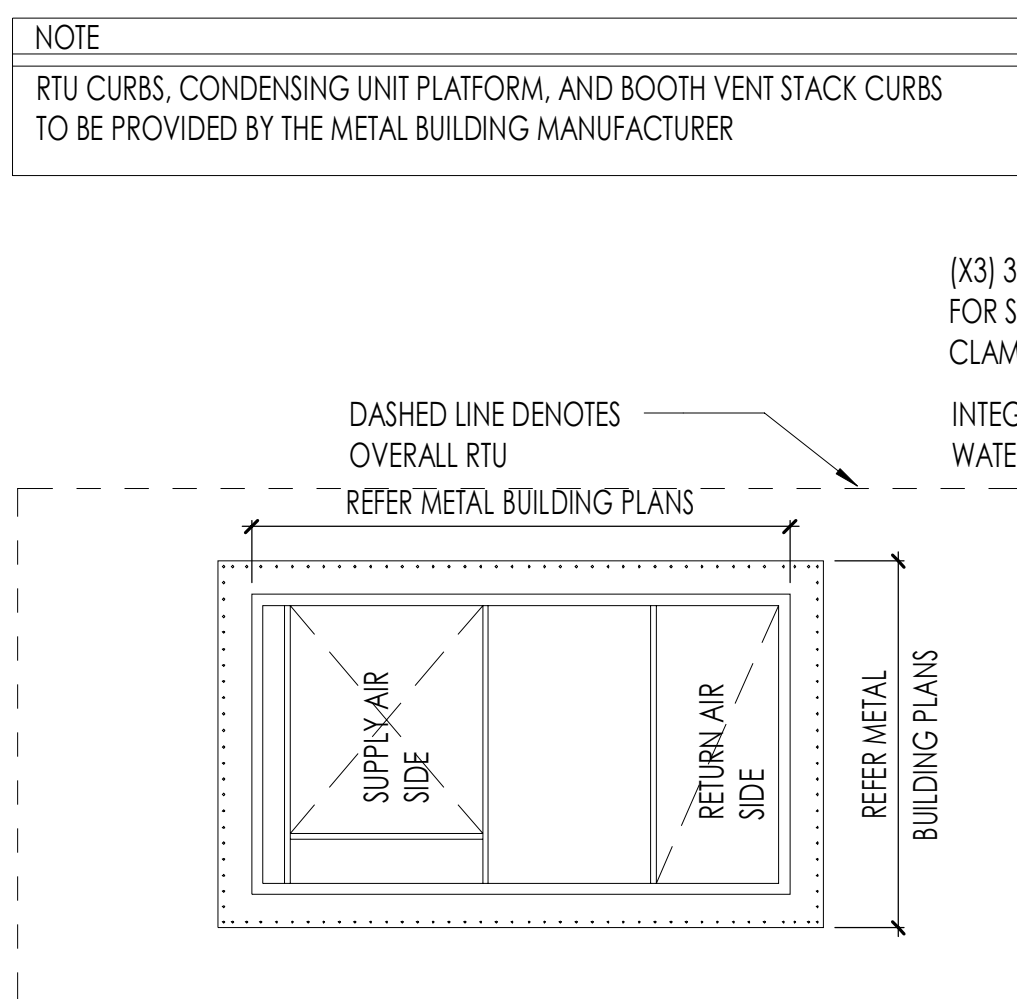
- ROOF PLAN:
- REFER TO MECHANICAL DRAWINGS FOR VENTS AND FLUE LOCATIONS.
 - ROOF INSULATION FOR EQUIPMENT SHED, 112 IS SAME AS WORKSHOP & OFFICE AREA ROOF - R-19 WHITE FABRIC LINED BANDED INSULATION WITH R-25 CONTINUOUS.
 - ALL DIMENSIONS NOTED ARE TO COL GRID, FACE OF OPENING OR CENTERLINE OF ELEMENT OR BEAM U.N.O.
 - REFER TO RESPONSIBILITY MATRIX FOR ADDITIONAL INFORMATION.
 - REFER TO PEMB DRAWINGS FOR PURLIN LAYOUT AND SPACING.

ROOF PLAN KEY NOTES

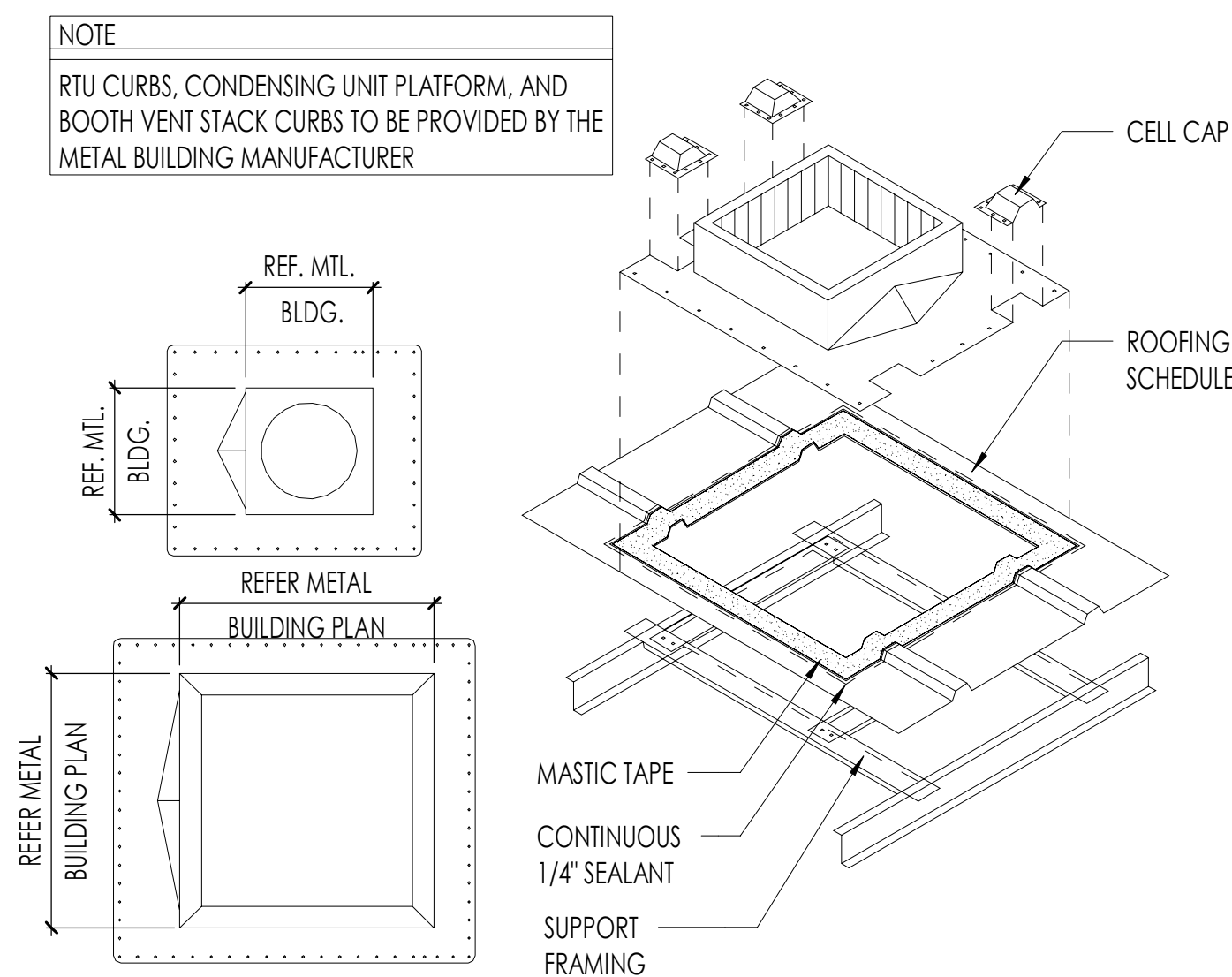
- GUTTER - BURNISHED SLATE MTL-2 (PROVIDED BY THE PEMB MANUFACTURER).
- STANDING SEAM ROOFING - MTL-1 (PROVIDED BY THE PEMB MANUFACTURER).
- METAL DOWNSPOUT (BURNISHED SLATE) - (PROVIDED BY PEMB), REF TO EXT ELEVATIONS.
- PRE-MANUFACTURED CANOPY BY G.C. (REF. TO FINISH SCHEDULE: CP-1).
- PRE-FINISHED TAPERED SHEET METAL COPING - MTL-2 (PROVIDED BY PEMB)
- PAINT BOOTH CURBS (PROVIDED BY THE METAL BUILDING AND COORDINATED WITH THE PAINT BOOTH VENDOR).
- MISCELLANEOUS VENT (BOOTS TO BE PROVIDED BY THE GC).
- RTU-CURB BY PEMB.
- EXHAUST VENT-CURB BY PEMB.
- PRE-FINISHED METAL BUILDING "R" PANEL ROOFING.



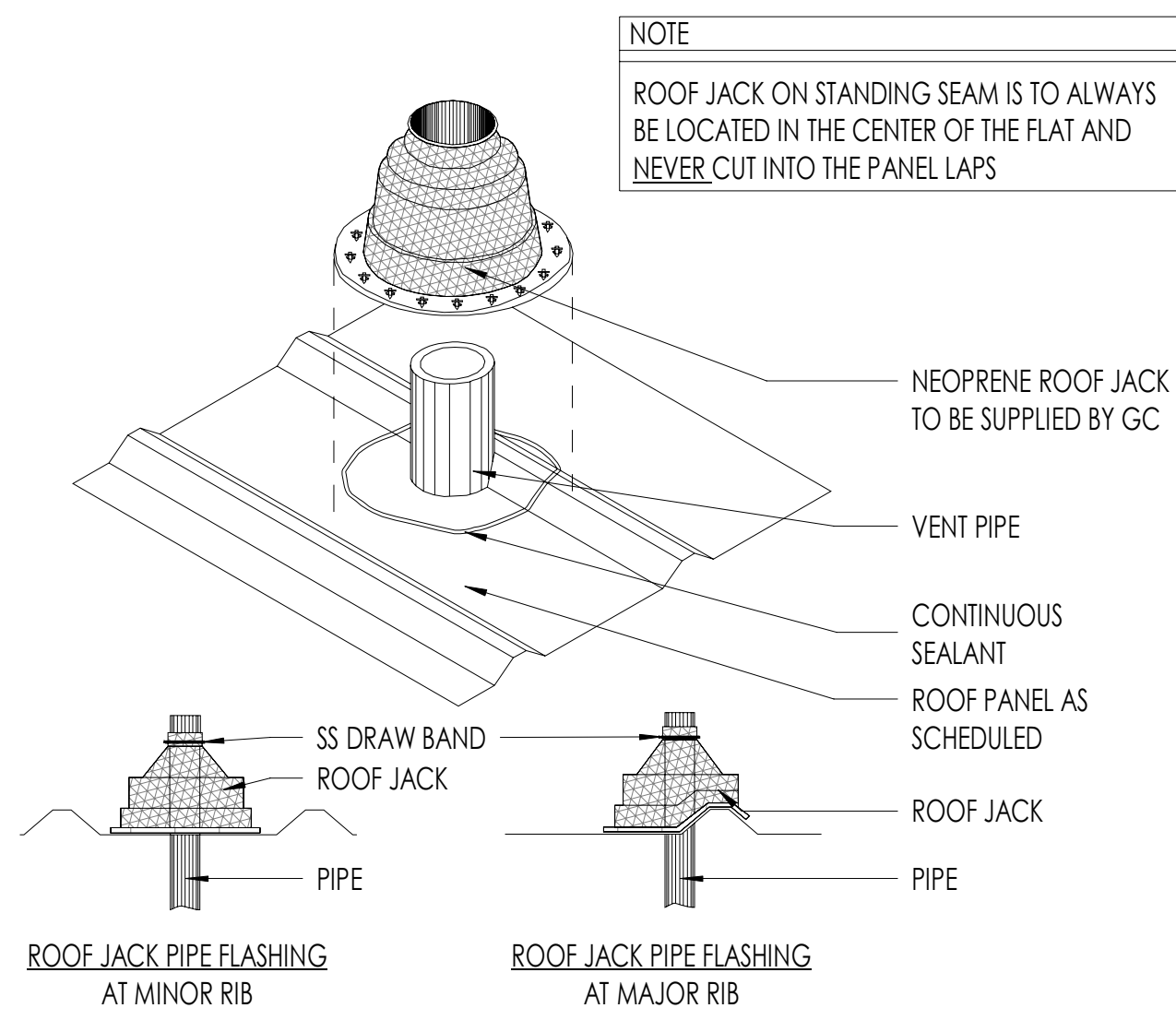
02 BANDED INSULATION
SCALE: 1/2" = 1'-0"



03 RTU CURB & CONDENSING PLATFORM
SCALE: 3/8" = 1'-0"



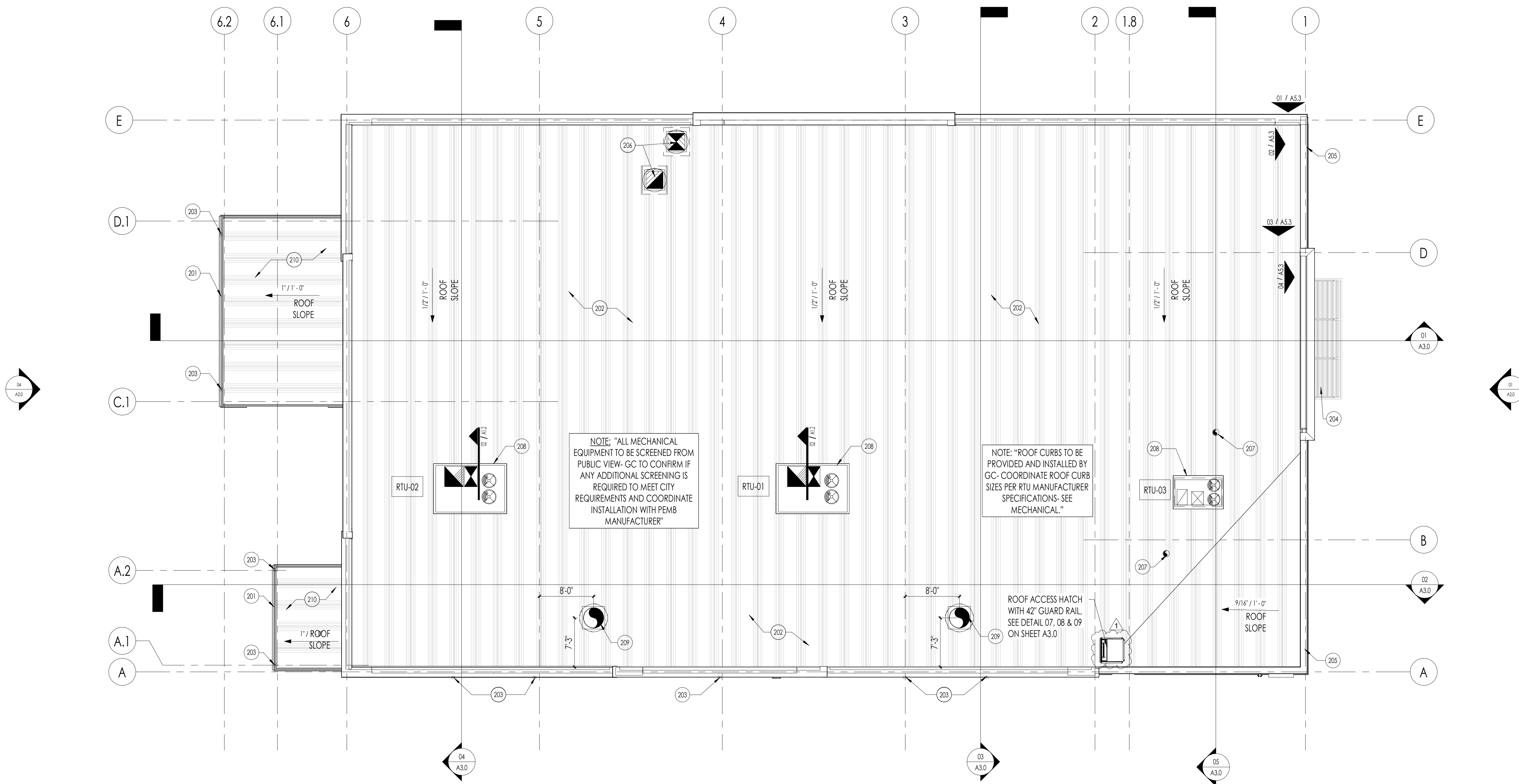
04 BOOTH VENT CURB (TYPICAL)
SCALE: 1/2" = 1'-0"



05 VENT BOOTH (TYPICAL)
SCALE: 1" = 1'-0"

FINISH LEGEND

FINISH KEY	DESCRIPTION/LOCATION	LOCATION	MANUFACTURER	PRODUCT COLOR	IDENTIFICATION/ FINISH/ STYLE	CONTACT
CP-1	CUSTOM CANOPY	LOBBY ENTRANCE	ARCHITECTURAL FABRICATORS	DARK BRONZE	HELIOS 399 X 446	ARCH. FABRICATORS 1-800-962-8027
MTL1	MTL ROOFING	SHOP ROOF	METL-SPAN	SOLAR WHITE	PREM. WEATHER XL E0.85 SRI:76	METL-SPAN 877-585-9969
MTL2	RAKE, GUTTER, TRIM	EXTERIOR	METL-SPAN	BURNISHED SLATE	PREM. WEATHER XL E0.86 SRI:25	METL-SPAN 877-585-9969



01 ROOF PLAN
SCALE: 1/8" = 1'-0"

ROOM SCHEDULE

RM#	ROOM NAME	FLOOR FINISH	WALL												CEILING			NOTES
			A			B			C			D			MATERIAL	FINISH	HEIGHT	
BASE	MATERIAL	FINISH	BASE	MATERIAL	FINISH	BASE	MATERIAL	FINISH	BASE	MATERIAL	FINISH	BASE	MATERIAL	FINISH				
100	LOBBY	CT1	BS1	G8	PT1,PT2	BS1	G8,AL2	PT1,PT2	BS1	G8,AL2	PT1,PT2	BS1	G8	PT8	GB,ACT1	-	VARIES	5,7
101	OFFICE	CPT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	ACT1	-	10'-4"	-
102	OFFICE	CPT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	ACT1	-	10'-4"	-
103	BREAK ROOM	VCT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	ACT1	-	10'-4"	-
104	BULLPEN	CT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	ACT1	-	10'-4"	7
105	CLOSET	VCT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	ACT1	-	10'-4"	-
106	IT	VCT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8,PLWD	PT1	ACT1	-	10'-4"	6
107	WOMEN'S RESTROOM	CT1	-	G8,CT2,CT3,CT4	PT1	-	G8,CT2,CT3,CT4	PT1	-	G8,CT2,CT3,CT4	PT1	-	G8,CT2,CT3,CT4	PT1	G8	PT1	9'-0"	1,7,8
108	HALLWAY	CT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	BS1	G8	PT1	ACT1	-	10'-4"	7
109	MEN'S RESTROOM	CT1	-	G8,CT2,CT3,CT4	PT1	-	G8,CT2,CT3,CT4	PT1	-	G8,CT2,CT3,CT4	PT1	-	G8,CT2,CT3,CT4	PT1	G8	PT1	9'-0"	1,7,8
110	ELECTRICAL ROOM	CONC	BS1	G8, TB	PT1	BS1	G8, TB	-	BS1	G8, TB	-	BS1	G8, TB	-	EXP	-	-	-
111	WORKSHOP	SEALED CONC	-	PLYWD. & GYP.	PT4	-	PLYWD. & GYP.	PT4	-	PLYWD. & GYP.	PT4	-	PLYWD. & GYP.	PT4	EXP	INSUL	VARIES	2,3,4,9
112	EQUIPMENT SHED	SEALED CONC	-	-	-	-	-	-	-	-	-	-	-	-	EXP	-	9	-
113	DETAIL	CONC	-	-	R-PANEL	-	-	R-PANEL	-	-	R-PANEL	-	-	R-PANEL	EXP	-	-	-

ROOM FINISH SCHEDULE NOTES

- REFER INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON MATERIAL LOCATIONS, EQUIPMENT AND HEIGHTS.
- PLYWOOD TO BE INSTALLED VERTICALLY STARTING AT 1/2" A.F.F. - REFER ELEVATIONS, BUILDING AND WALL SECTIONS FOR LOCATIONS.
- REFER FINISH PLAN LEGEND FOR INFORMATION.
- REFER BUILDING AND WALL SECTIONS FOR CLARIFICATION AND EXTENTS OF INSULATION.
- REFER REFLECTED CEILING PLAN.
- GC SHALL NOT PAINT THE TELEPHONE BACKBOARD.
- 12X24 TILE TO BE INSTALLED AT 1/3 OVERLAP WITH A GROUT LINE OF NO MORE AND NO LESS THAN 3/16".
- GC IS TO PROVIDE BOBBICK HIGH-PRESSURE LAMINATE CLASSIC LINE SERIES 1540, GRAY 1500-40.
- CONCRETE FLOOR SEALER SHOULD BE APPLIED (DAYTON SUPERIOR CORPORATION; ULTRA SEAL EF.

ABBREVIATION

G8	GYPSUM BOARD	FRP	FIBER REINFORCED PANELS
PT	PAINT	PLYWD	3/4" FIRE RETARDANT PLYWOOD
CPT	CARPET	CONC	CONCRETE
BS	BASE	INSUL	INSULATION
VCT	VINYL COMPOSITION TILE	EXP	EXPOSED TO STRUCTURE
ACT	ACOUSTICAL CEILING TILE	CL	CHAIN LINK
SS	STAINLESS STEEL	MTL	METAL BUILDING STRUCTURE
CT	CERAMIC TILE	TB	TAPE AND BED
AL	ALUMINUM	B.O.H.	BACK OF HOUSE
TB	TAPE AND BED		

FINISH PLAN LEGEND

	(CPT1)	CARPET		(VCT1)	VINYL COMPOSITION TILE
	(CONC)	CONCRETE (CONC) *REF. SPECIFICATIONS		(SC)	SEALED CONCRETE (CONC) *REF. SPECIFICATIONS
	(CT1)	CERAMIC TILE			

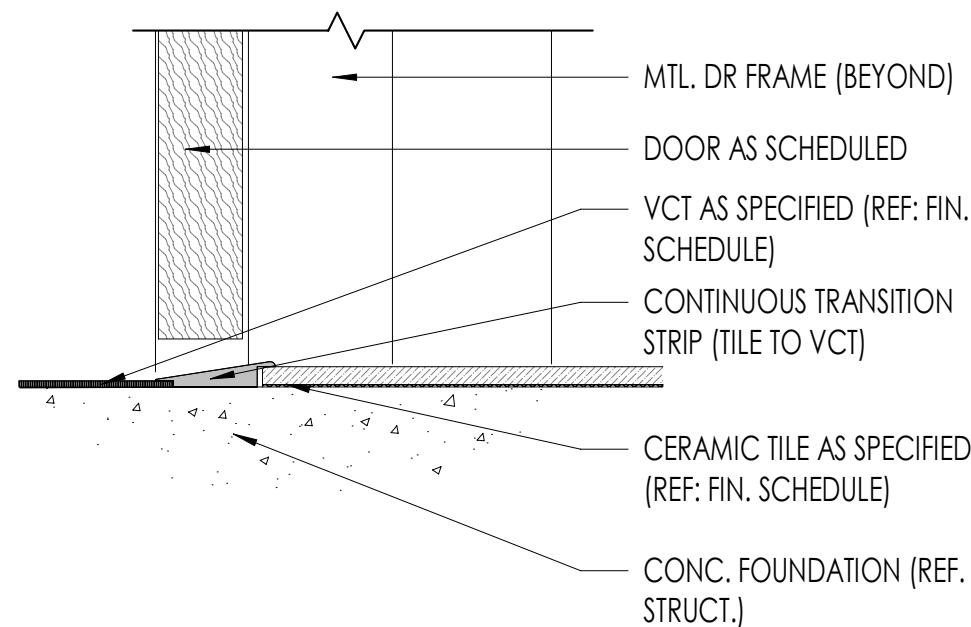
FLOORING & WALL MATERIAL TAKE-OFFS

GC TO VERIFY

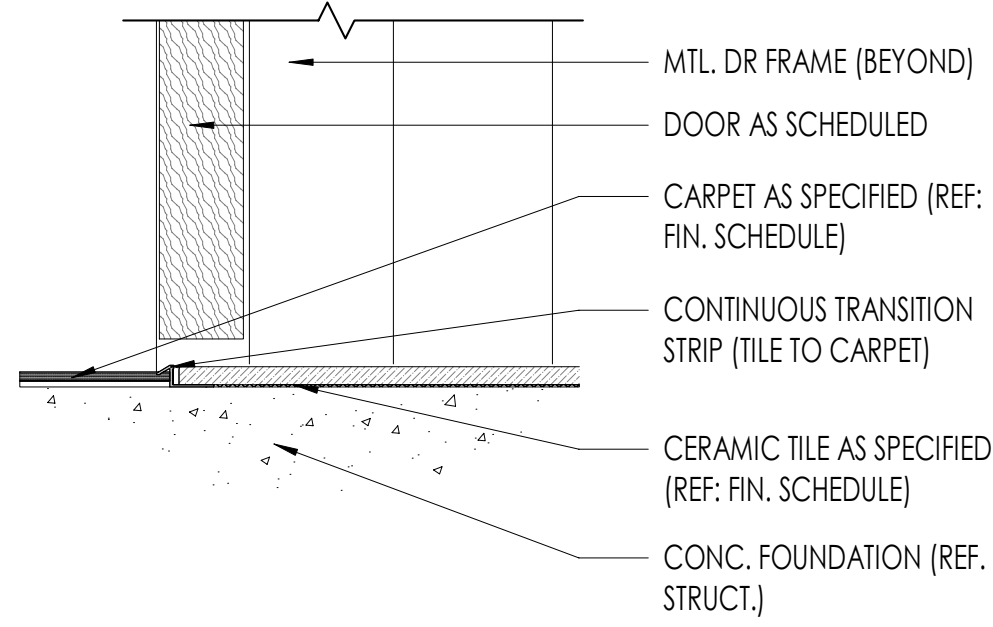
CARPET	200
FLOOR TILE	997
WALL TILE	441
ACCENT TILE	16
VCT	221

INTERIOR FINISH SCHEDULE

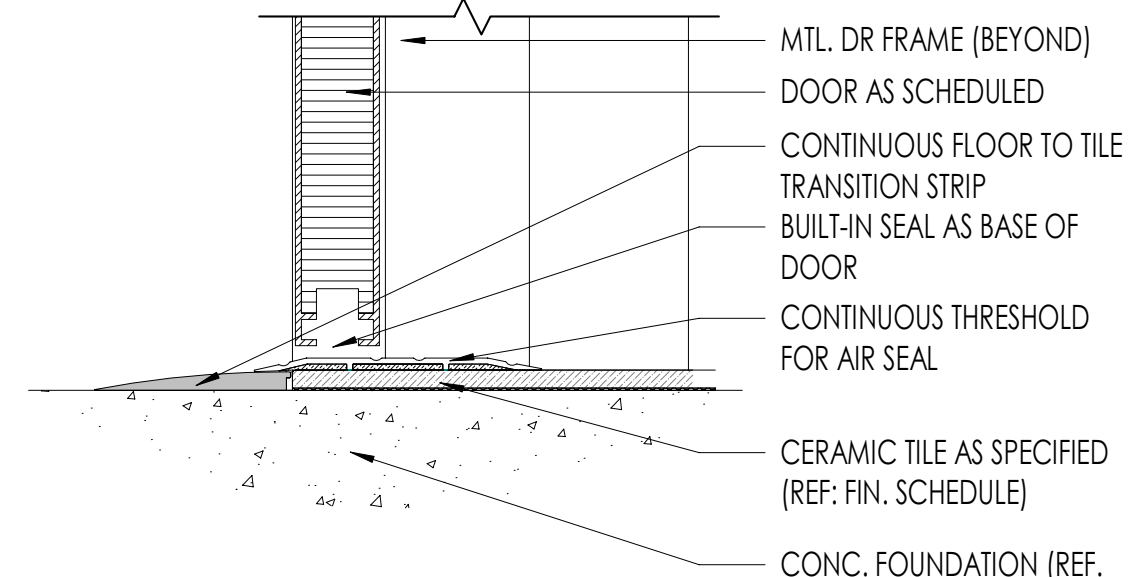
FINISH KEY	DESCRIPTION	LOCATION	MANUFACTURER	PRODUCT COLOR	IDENTIFICATION / FINISH	CONTACT
ACT1	LAY IN CEILING TILE	LOBBY AREA	ARMSTONG	WHITE	CORTEGA SECOND LOOK II, (2767-CLASS A, FS INDEX 25 OR LESS, SD INDEX 50 OR LESS)	N/A
AL1	INTERIOR FRAMES (WHERE NOTED)	OFFICE	RAYCO OR APPROVED EQUAL	DARK ANODIZED BRONZE	HOLLOW METAL FRAME	N/A
BS1	WALL BASE	OFFICE INTERIOR	ARMSTRONG	60 JET BLACK	4" HIGH	N/A
CPT1	CARPET	INTERIOR OFFICE	SHAW CONTRACTING GROUP	OUTLINE - SA187 - CLAY	87761 LOOP	STARLA CABELL 972-922-0739
CT1	CERAMIC TILE	INTERIOR LOBBY/CIRCULATION AREAS/PUBLIC RESTROOM FLOORS	DAL TILE	ACCENT BROWN - VOLUME 1.0	VL78-12x24" AT LOBBY AND CIR. AREAS	NATIONALACCOUNTS@DALTI LE.COM 877-556-5728
CT2	CERAMIC TILE	PUBLIC RESTROOMS WALLS	DAL TILE	ACCENT BROWN - VOLUME 1.0	VL78-12x12" AT PUBLIC RESTROOMS	NATIONALACCOUNTS@DALTI LE.COM 877-556-5728
CT3	CERAMIC TILE	PUBLIC RESTROOMS	DAL TILE	EVENING SKY	BP97 (5/8"x3" BRICK JOINT ACCENT BAND AT PUBLIC RESTROOMS)	NATIONALACCOUNTS@DALTI LE.COM 877-556-5728
CT4	CERAMIC TILE	PUBLIC RESTROOMS	DAL TILE	ACCENT BROWN - VOLUME 1.0	P-43C9 3"x12" BULLNOSE	NATIONALACCOUNTS@DALTI LE.COM 877-556-5728
CT5	CERAMIC TILE	PUBLIC RESTROOMS	DAL TILE	ACCENT BROWN - VOLUME 1.0	P-36C91 6"x12" COVE BASE	NATIONALACCOUNTS@DALTI LE.COM 877-556-5728
FRP1	WALL PANEL	INTERIOR SHOP/RESTROOMS	MARLITE	WHITE (P100)-SHOP & RESTROOMS	PEBBLE SURFACE w/PLASTIC TRIM 4x8x3/32"	NEALE SMITH (330) 260-7614
GR1	INTERIOR MORTAR	INT. LOBBY/CIRC. AR./PUBLIC RESTROOM	MAPEI	BAHAMA BEIGE #04	3/16" GROUT JOINT	N/A
GT1	GRANITE COUNTER TOP		TO BE PROVIDED AT TIME OF MILLWORK DELIVERY & INSTALL	ABSOLUTE BLACK	3 CM w/QUARTER ROUND EDGING	N/A
PL1	MILLWORK & INT. DOORS (MILLWORK & DOOR FACES)		WILSONART	STUDIO TEAK (RUN GRAIN VERTICAL)	7960K-18	N/A
PL2	MILLWORK (MILLWORK WORK SURFACE)		WILSONART	BLACK	1595-60	N/A
PT1	INTERIOR PAINT		SHERWIN WILLIAMS	BALANCED BEIGE (EGGSHELL FINISH)	SW 7037	BRETT C. HUCKLEBURY 214-728-6696
PT2	INT. ACCENT PAINT (1'4" BELOW CLG. TILE)		SHERWIN WILLIAMS	BACKDROP (EGGSHELL FINISH)	SW 7025	BRETT C. HUCKLEBURY 214-728-6696
PT4	INTERIOR SHOP PAINT	SHOP PLYWOOD AND SHOP SIDE OF HM DOORS	SHERWIN WILLIAMS	ICE CUBE (GREY) (EGGSHELL FINISH)	SW 6252	BRETT C. HUCKLEBURY 214-728-6696
PT8	INT. BRANDING WALL (NON-TEXTURE FINISH)	LOBBY BRANDING WALL	SHERWIN WILLIAMS	BALANCED BEIGE	SW 7037 SEMI GLOSS w/PRIMER BASE (NOT TWO AND ONE) LEVEL 5 FINISH	BRETT C. HUCKLEBURY 214-728-6696
PT10	INT. SHOP PAINT	ABOVE 8'-0"	SHERWIN WILLIAMS	EXTRA WHITE	SW 7006-EGGSHELL BASE	BRETT C. HUCKLEBURY 214-728-6696
SC	SEALED CONCRETE	SHOP	T.B.D			
TS1	TRANSITION STRIP	TILE TO VCT INTERIOR OFFICE	SCHLUTER	STAINLESS STEEL - RENO U	EBU100	N/A
TS2	TRANSITION STRIP	TILE TO CARPET INTERIOR OFFICE	SCHLUTER	STAINLESS STEEL - RENO TK	ETK100	N/A
TS3	TRANSITION STRIP	INT. OFFICE TO SHOP	ARMSTRONG	RUBBER FLOOR REDUCER (1/8" TO 0")	VT560	N/A
TS4	TRANSITION STRIP	INT. OFFICE TO SHOP	ARMSTRONG	RUBBER FLOOR REDUCER (1/4" TO 0")	VT260	N/A
VCT1	VINYL COMP. TILE	BREAK-ROOM/SHOP RESTROOMS/CLOSET	ARMSTRONG	PEWTER	#51908	N/A
CONC	CONCRETE SLAB	DETAIL BAY			LIGHT BROOM FINISH	N/A



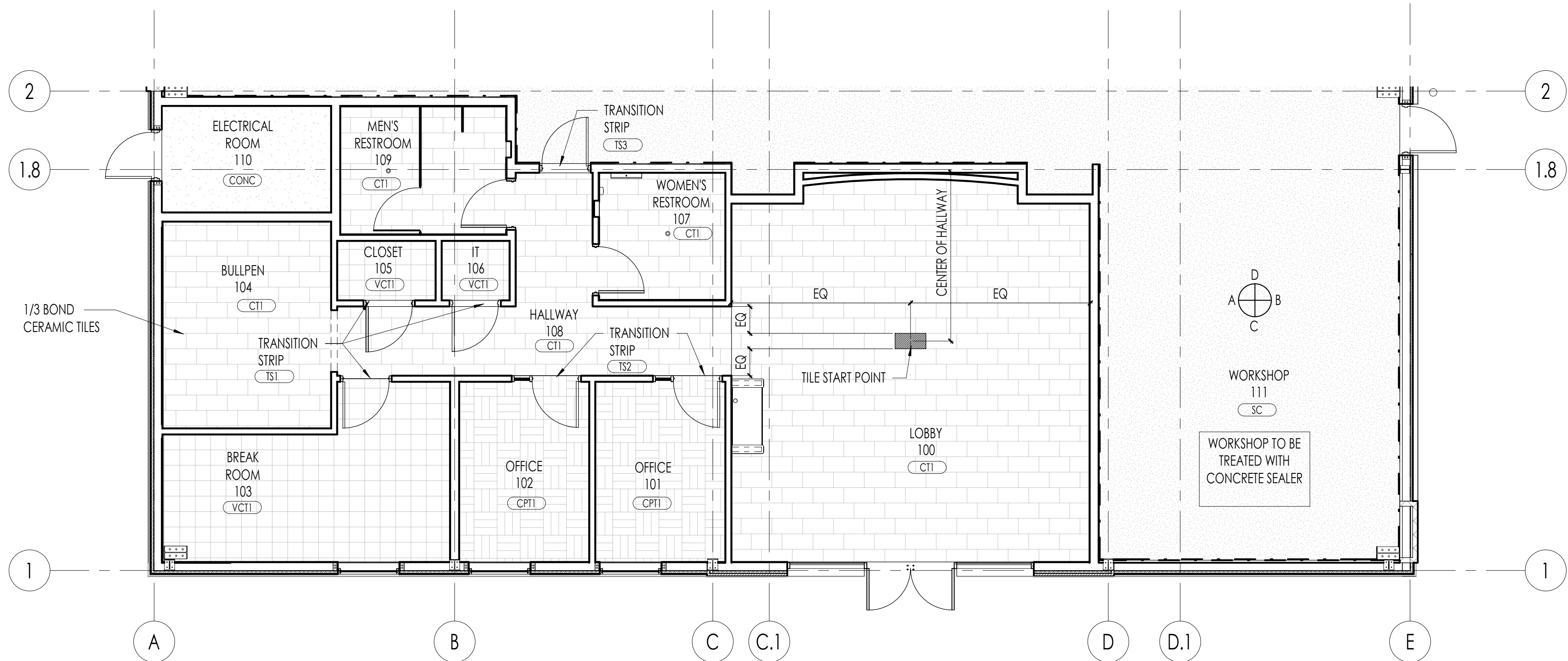
DETAIL @ TS1
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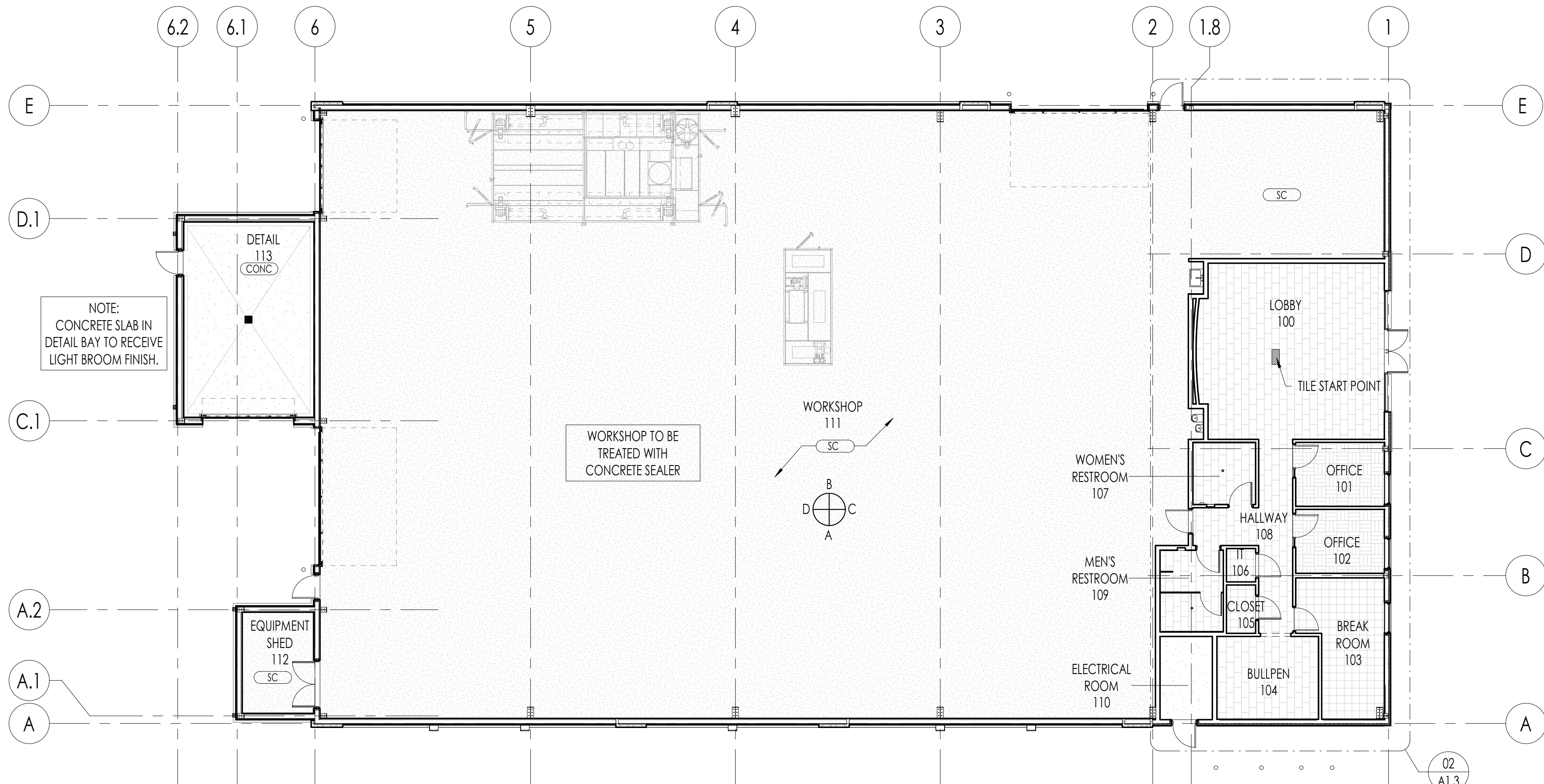
DETAIL @ TS2
NTS



DETAIL @ TS3
NTS



02 OFFICE FLOOR FINISH PLAN
SCALE: 3/16" = 1'-0"



01 FLOOR FINISH PLAN
SCALE: 3/32" = 1'-0"

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Floor Finish Plans And Schedules

Sheet Number:

A1.3



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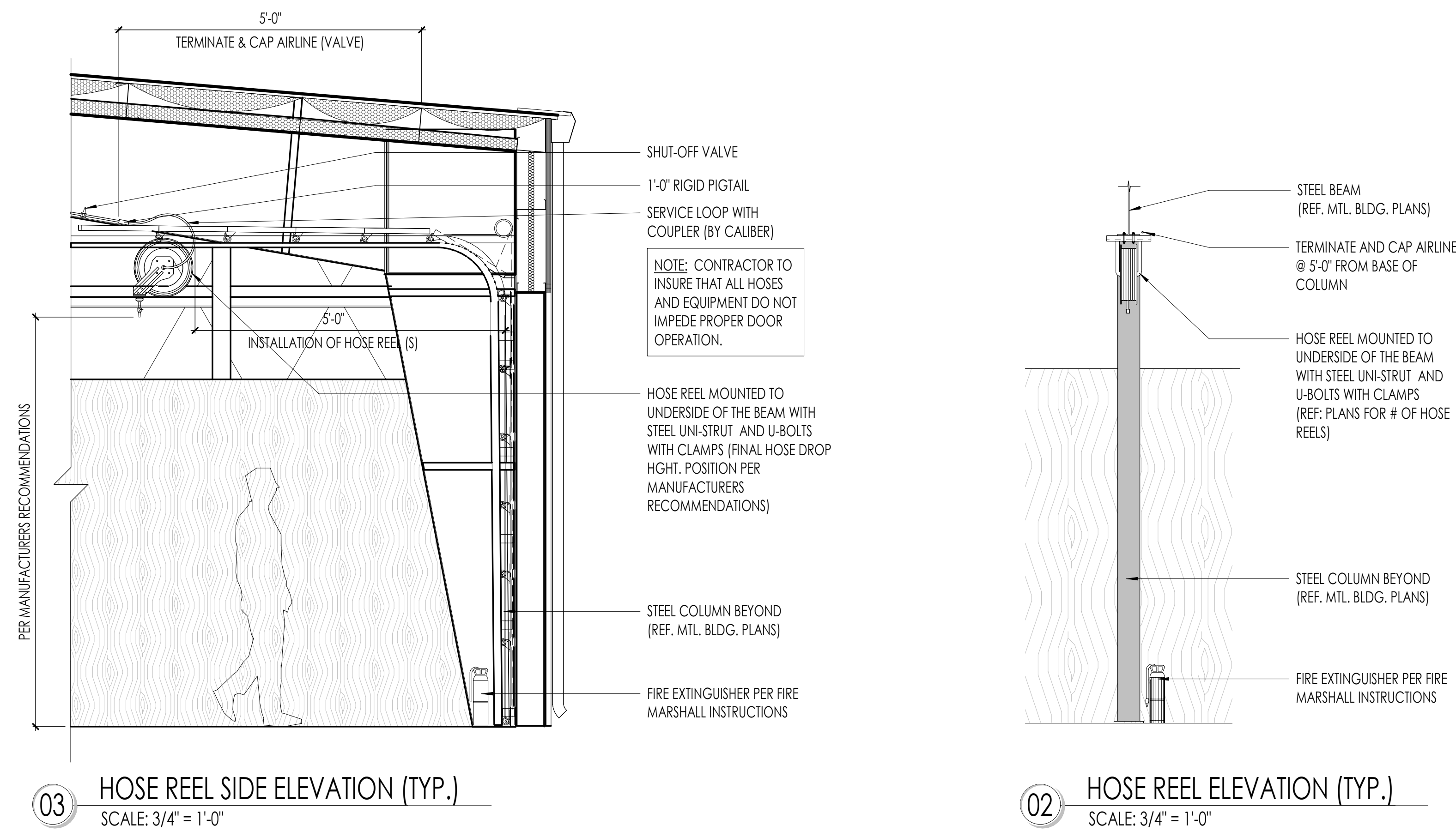
Issue Date: 12.10.2021

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Fixture Plan

Sheet Number:

A1.4

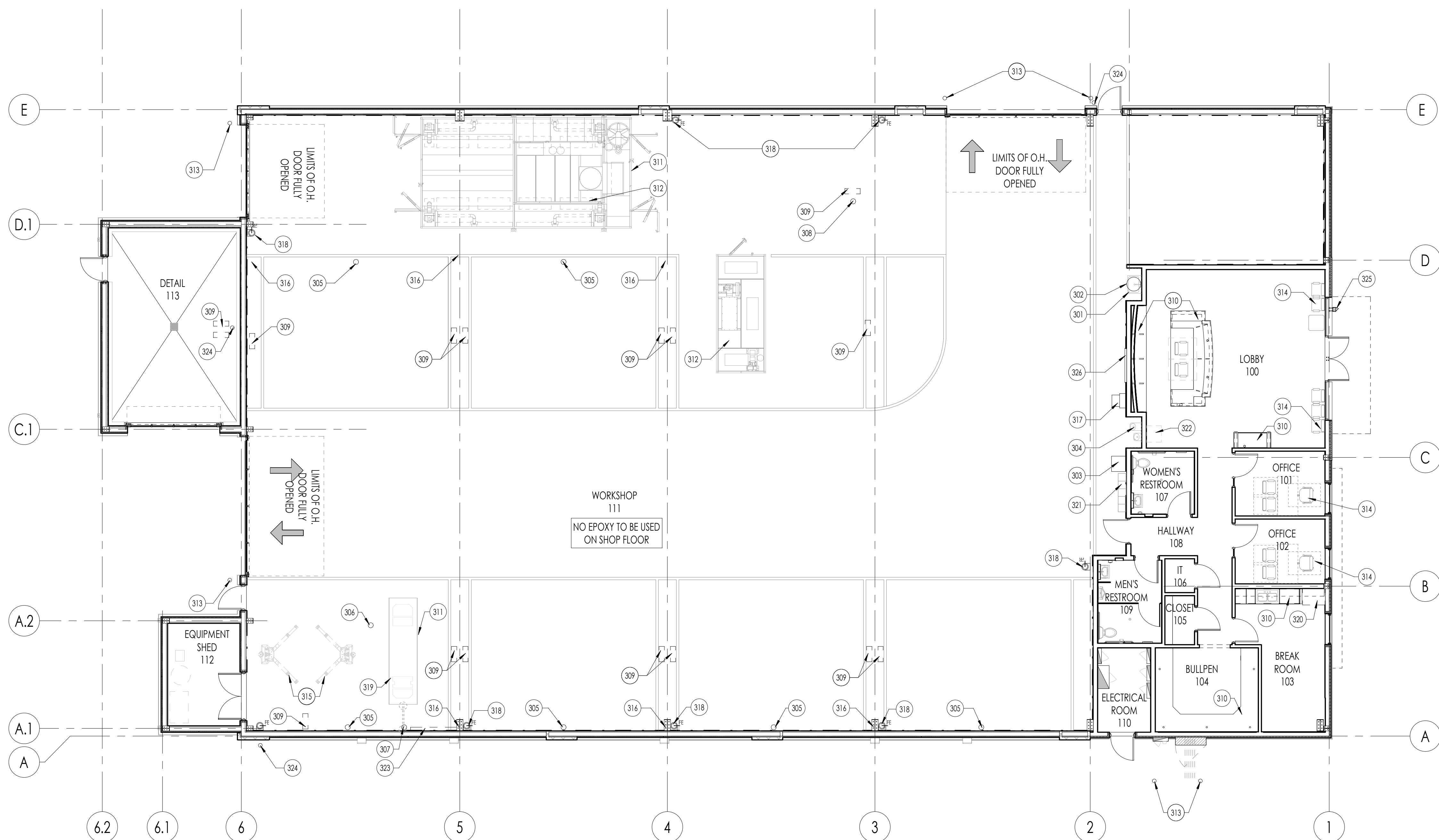


SHEET NOTES

1. ALL DIMENSIONS NOTED OR SHOWN ARE TAKEN FROM FACE OF STUD UNLESS NOTED OTHERWISE.
2. SOME EQUIPMENT IS NOT SHOWN FOR CLARITY
3. ALARM SYSTEM TO BE DESIGNED BY A LICENSED FIRE PROTECTION CONTRACTOR. INSTALL LATERAL LINES TO BE HELD TIGHT AGAINST THE BOTTOM OF STRUCTURE.
4. GC TO INSTALL FIRE EXTINGUISHERS PER THE FIRE MARSHAL RECOMMENDATIONS AND LOCATIONS. SEE FP1.0 FOR ALL LOCATIONS.
5. REFER SHEET A3.4 FOR PARTITION TYPE, CONTROL JOINT, AND METAL STUD INFORMATION.
6. UNLESS NOTED OTHERWISE PROVIDE CONDUIT FOR FUTURE GATE OPERATORS.
7. FOR LOCATION OF FIXTURES, REF. MEP DRAWINGS

KEYNOTES:

- 301 WALL MOUNTED WASH/ MOP SINK. SEE PLUMBING.
302 WATER HEATER. SEE PLUMBING.
303 PORTABLE EMERGENCY EYE WASH KIT (BY OWNER). SEE PLUMBING.
304 HILLO WATER FOUNTAIN. SEE PLUMBING.
305 LOCATION OF POWER FOR WELDER AT 48" A.F.F., SEE ELECTRICAL.
306 POWER @ STRUCTURE FOR WELDER EQUIP. SEE ELECTRICAL.
307 POWER AND DATA FOR FRAME RACK CONTROLLER AT 48" A.F.F., SEE ELECTRICAL.
308 POWER FOR HEAT LAMP @ STRUCTURE. SEE ELECTRICAL.
309 HOSE REELS OWNER PROVIDED AND INSTALLED BY CALIBER COLLISION EQUIPMENT INSTALLER.
310 MILLWORK PROVIDED AND INSTALLED BY G.C.
311 RECESSED AND SLOPED CONCRETE SLAB. SEE STRUCTURAL. SLOPE TO FLOOR DRAIN. SEE PLUMBING.
312 PAINT BOOTH TO BE PROVIDED AND INSTALLED BY CALIBER COLLISION PAINT BOTH MANUFACTURER.
313 CONCRETE FILLED STEEL BOLLARD. SEE AS1.0 FOR MORE INFORMATION.
314 OFFICE FURNITURE BY OWNER.
315 TWO POST LIFT STATION AND RACK LIFT TO BE PROVIDED AND INSTALLED BY CALIBER COLLISION EQUIPMENT INSTALLER.
316 LOCATION OF POWER FOR PERSONAL COMPUTER AT 48" A.F.F., SEE ELECTRICAL.
317 TIME CLOCK STATION PROVIDED AND INSTALLED BY OWNER; GC TO PROVIDE POWER AND DATA MOUNTED AT 42" A.F.F., SEE ELECTRICAL.
318 RECOMMENDED FIRE EXTINGUISHER LOCATION. GC TO INSTALL. VERIFY W/ FIRE MARSHALL. SEE FP1.0 FOR ALL LOCATIONS.
319 FRAME RACK SEE A4.1 FOR MORE INFORMATION.
320 REFRIGERATOR FURNISHED BY OWNER. PROVIDE POWER. SEE ELECTRICAL.
321 EMPLOYEE LOCKERS FURNISHED BY OWNER.
322 STANDUP PRINTER FURNISHED BY OWNER. PROVIDE POWER AND DATA. SEE ELECTRICAL.
323 CAR-O-LINER WALL BOARD BY OWNER.
324 HOSE BIB. SEE PLUMBING
325 PROPOSED KNOX BOX LOCATION. VERIFY TYPE AND LOCATION WITH FIRE DEPARTMENT PRIOR TO INSTALL.
326 DIGITAL DISPLAY MONITOR TO BE PROVIDED AND INSTALLED BY CALIBER COLLISION. GC TO PROVIDE POWER AND DATA 84" AFF



01 **FIXTURE PLAN**
SCALE: 1/8" = 1'-0"



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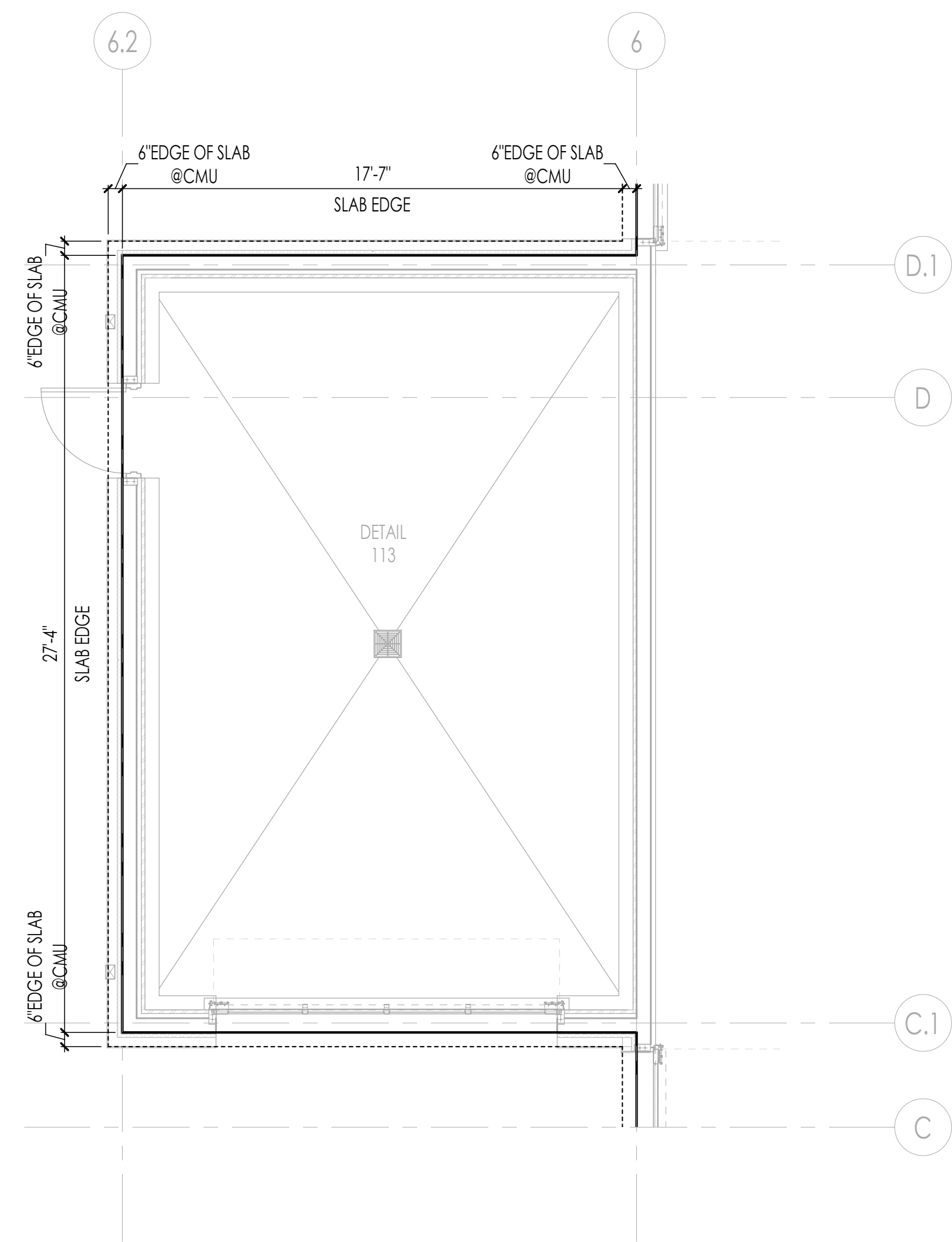
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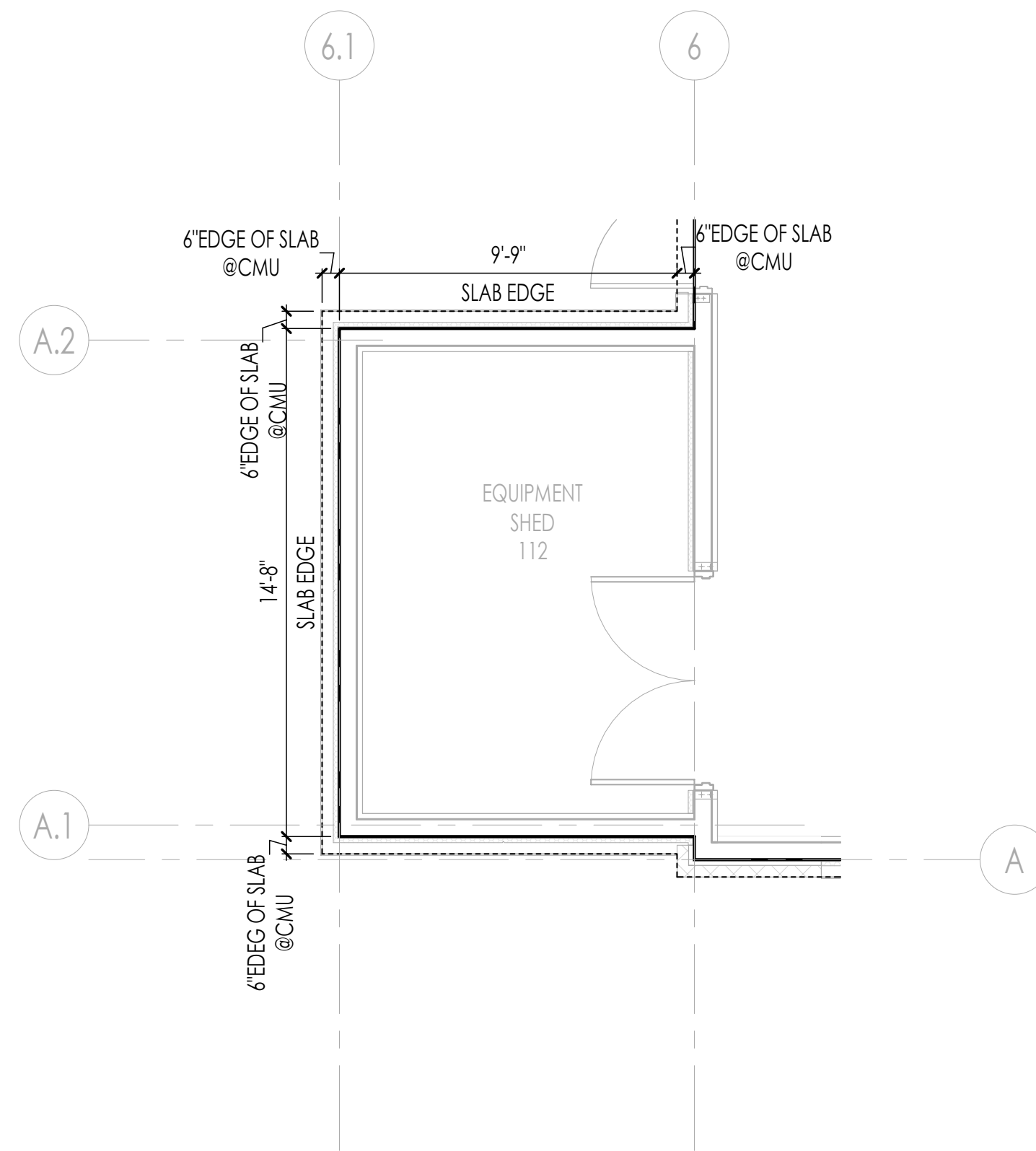


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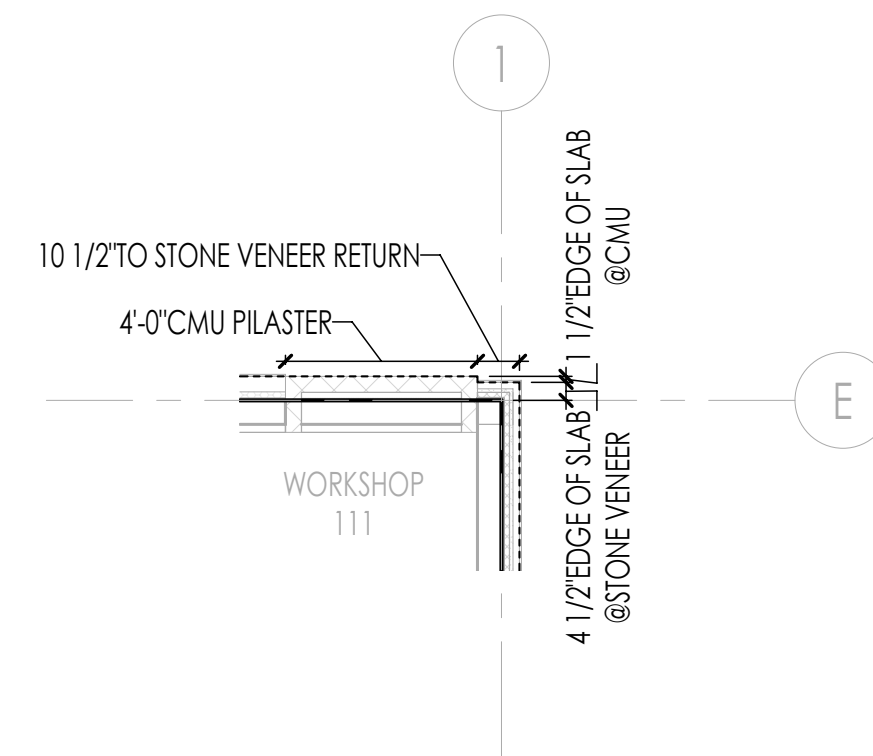
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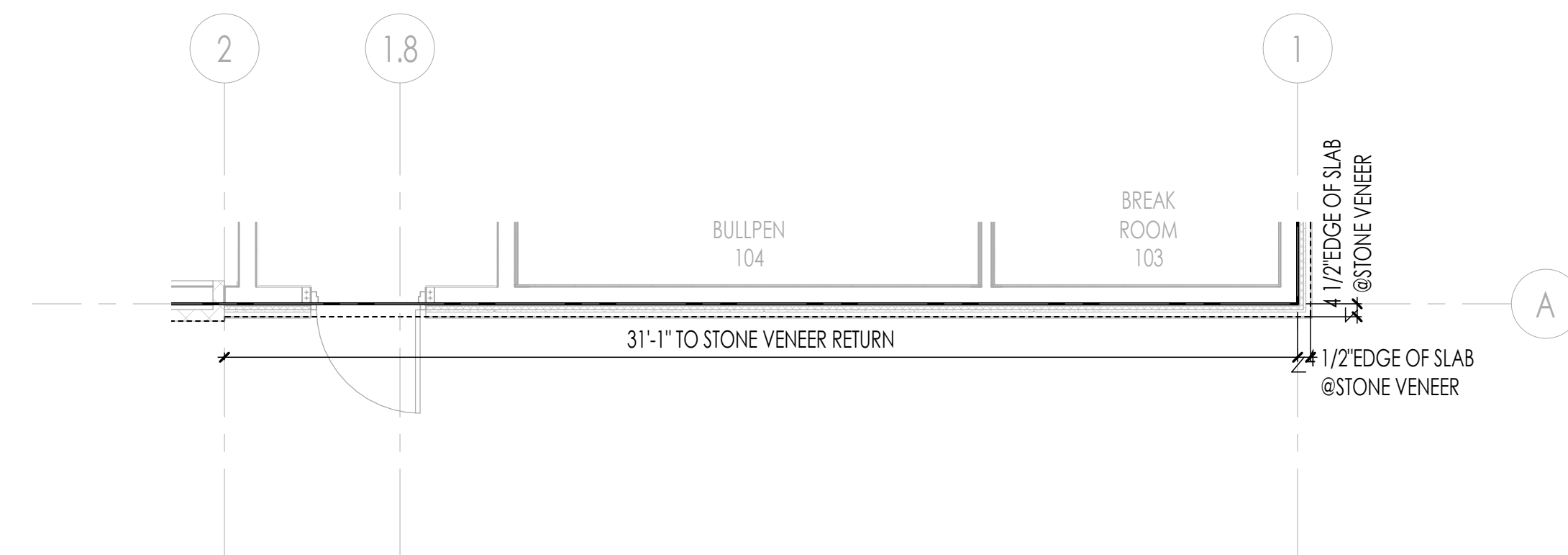
05 ENLARGED SLAB EDGE PLAN
SCALE: 1/4" = 1'-0"



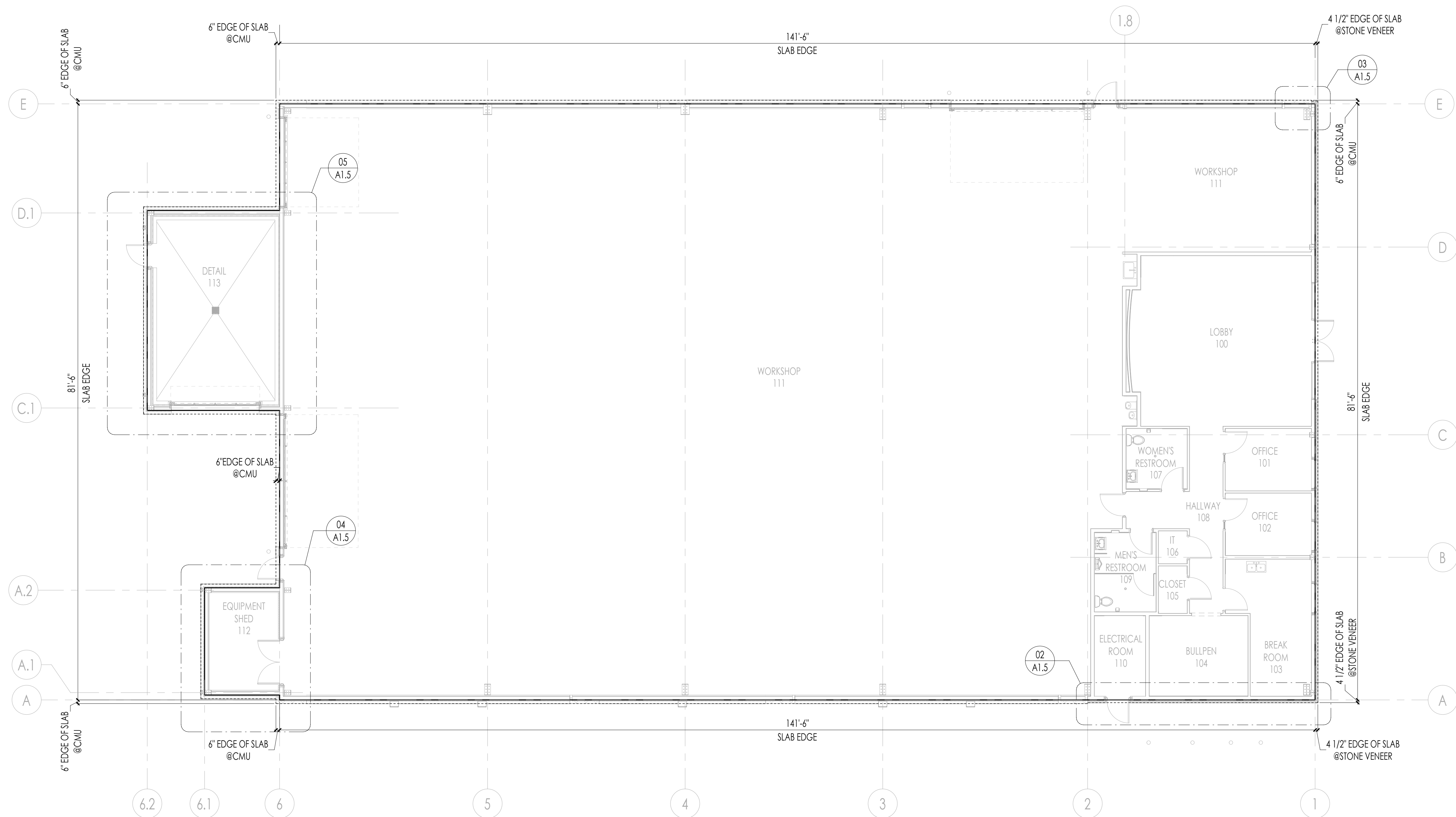
04 ENLARGED SLAB EDGE PLAN
SCALE: 1/4" = 1'-0"



03 ENLARGED SLAB EDGE PLAN
SCALE: 1/4" = 1'-0"



02 ENLARGED SLAB EDGE PLAN
SCALE: 1/4" = 1'-0"



01 SLAB EDGE PLAN
SCALE: 1/8" = 1'-0"

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Slab Edge Plan

Sheet Number:

A1.5



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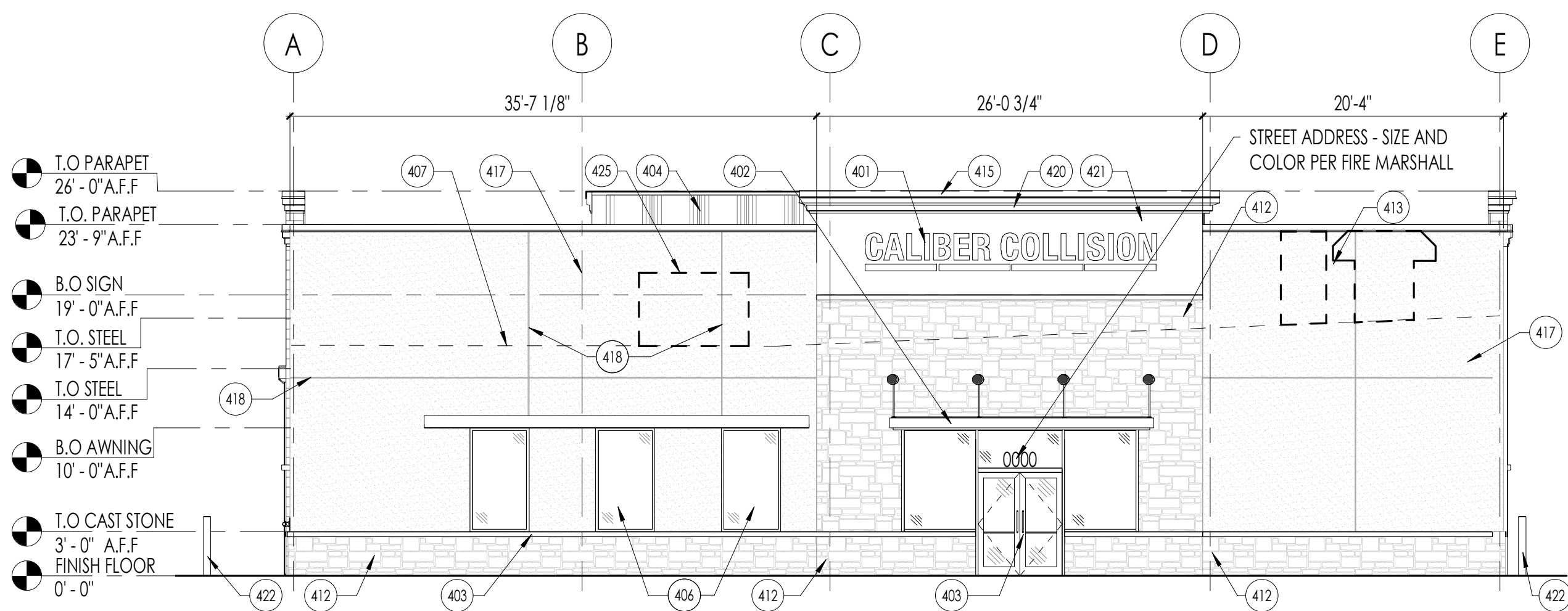
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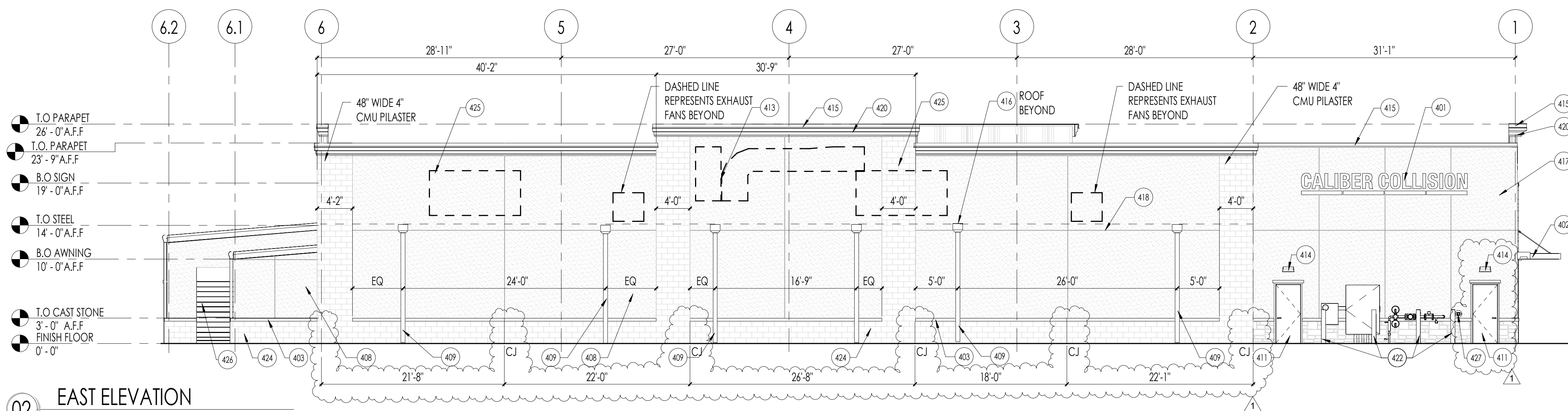


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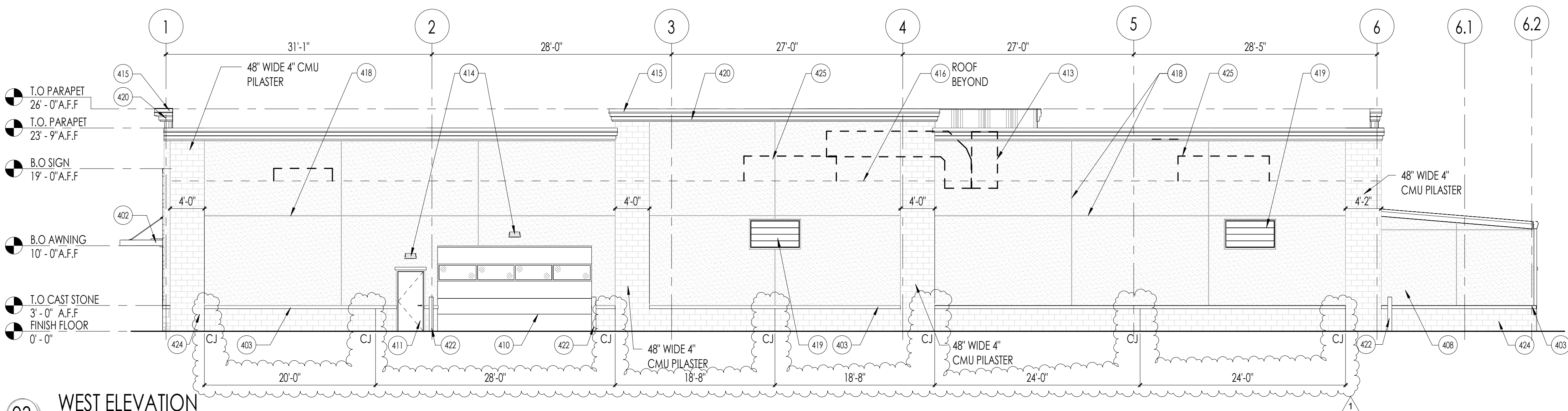
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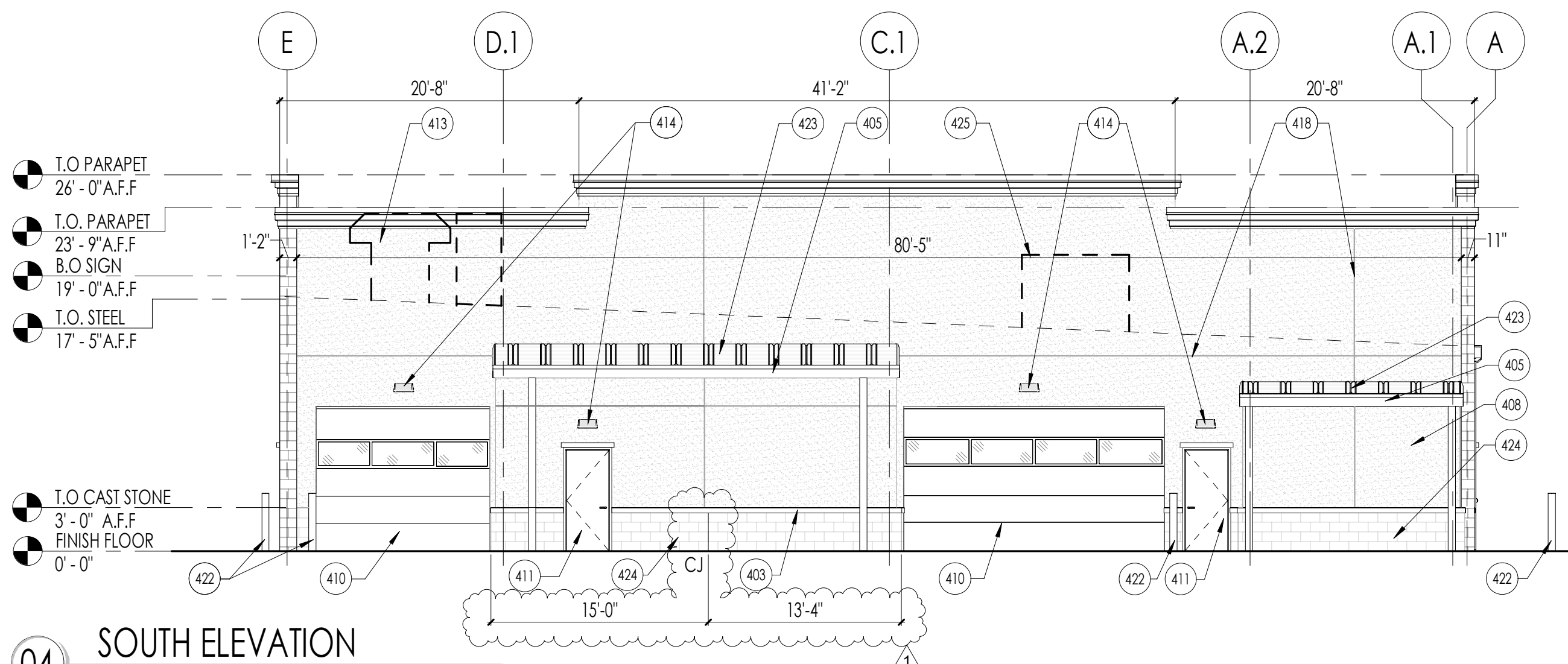
01 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



02 EAST ELEVATION
SCALE: 1/8" = 1'-0"



03 WEST ELEVATION
SCALE: 1/8" = 1'-0"



04 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

FACADE DIRECTION	EAST DIRECTION	WEST DIRECTION	NORTH DIRECTION	SOUTH DIRECTION
METAL (PANEL, COPING, FRAMES AND DOORS) SQ. FT.	36.39	248.69	93.27	497.7
PERCENTAGE (%)	2.80%	7.22%	4.64%	18.00%
STONE SQ. FT.	74.12	2.31	482.7	0
PERCENTAGE (%)	2.15%	0.07%	24.00%	0%
CAST STONE SQ. FT.	50.6	44.14	37.28	32.55
PERCENTAGE (%)	1.47%	1.28%	1.85%	1.18%
EIFS SQ. FT.	109.19	139.54	172.35	80.5
PERCENTAGE (%)	3.17%	4.03%	8.57%	2.91%
GLAZING SQ. FT.	0	28.61	177	65.82
PERCENTAGE (%)	0%	0.83%	8.80%	2.38%
3 STEP STUCCO SQ. FT.	618.92	13.05	1048.3	0
PERCENTAGE (%)	17.98%	0.38%	52.13%	0%
EIFS (OVER R-PANEL) SQ. FT.	1874.16	2298.15	0	1811.91
PERCENTAGE (%)	54.46%	66.43%	0%	65.54%
CMU SQ. FT.	618.22	642.13	0	276.21
PERCENTAGE (%)	17.96%	18.56%	0%	9.99%
LOUVERS SQ. FT.	0	42	0	0
PERCENTAGE (%)	0%	1.21%	0%	0%
TOTAL SQ. FT.	3441.61	3459.62	2010.9	2764.6
TOTAL PERCENTAGE	100%	100%	100%	100%

KEYNOTES:

- 401 SIGNAGE (BY OTHERS)-PROVIDE 3/4" PLYWD. BACKING (SEPARATE PERMIT).
- 402 PREMANUFACTURED MTL. AWNING W/ TIE RODS BY G.C. (CP-1)
- 403 SYNTHETIC STONE SILL/WATER TABLE. REFER TO SPECS.(CS-1)
- 404 PARAPET BACK PANEL (SOLAR WHITE COLOR).
- 405 MTL. CUTTER-PROVIDED BY MTL. BUILDING PROVIDER AND INSTALLED BY GC. (MTL-2)
- 406 STOREFRONT / GLAZING (AL-2).
- 407 ROOFLINE BEYOND.
- 408 1-1/2" EIFS OVER 5/8" DENS GLASS SHEATHING (EF-5).
- 409 PRE-FINISHED 6"x4" D (SQUARE) METAL DOWNSPOUT (BURNISHED SLATE)-PROVIDED BY MTL. BUILDING SUPPLIER AND INSTALLED BY GC.
- 410 FACTORY FINISHED SECTIONAL OH DOOR (PT-3).
- 411 HOLLOW MTL. DOOR (PT-3) AND FRAME (SADDLE TAN). PROVIDE DRIP CAP OVER DOORS WITH NO OVERHEAD COVER.
- 412 SYNTHETIC STONE VENEER (M-1).
- 413 EXHAUST AND AIR INTAKE, REF. PAINT BOOTH SHEETS.
- 414 WALL MOUNTED LIGHT FIXTURE, REF. MEP.
- 415 PRE-FINISHED MTL. COPING (MTL-2) - PROVIDED BY MTL. BUILDING SUPPLIER AND INSTALLED BY GC.
- 416 METAL BUILDING STANDING SEAM ROOFING (MTL-1).
- 417 3 STEP STUCCO INTEGRATED COLOR (ST-1).
- 418 CONTROL JOINT
- 419 WALL LOUVER, (CLEAR ANODIZED FINISH) REF. MEP
- 420 SYN STUCCO CORNICE. (ST-1).
- 421 EIFS ACCENT BANDING-PAINT TO MATCH SW6258 TRICORN BLACK (EF-4).
- 422 BOLLARDS.
- 423 PRE-FINISHED METAL BUILDING "R" PANEL ROOFING. (MTL-1)
- 424 SPLIT FACE C.M.U. - COLOR TO MATCH (PT-7) LIGHT STONE.
- 425 DASH LINE REPRESENTS ROOF TOP UNIT BEYOND.
- 426 COILING OVERHEAD DOOR @ DETAIL BAY.
- 427 F.D.C PER PLUMBING PLANS.

EXTERIOR FINISH LEGEND

FINISH KEY	DESCRIPTION	LOCATION	MANUFACTURER	PRODUCT COLOR	IDENTIFICATION/ FINISH/ STYLE	CONTACT
AL-2	STOREFRONT SYSTEM	OFFICE EXTERIOR	KAWNEER OR APPROVED EQUAL	DARK ANODIZED BRONZE	2" X 4-1/2" ALUMINUM FRAME	N/A
CS-1	CAST STONE (REF. ELEV)	OFFICE EXTERIOR	CORONADO STONE/ EL DORADO STONE	CORONADO- OFF WHITE EL DORADO- BUCKSKIN	REFER TO SPECS-047300	N/A-SAMPLE TO BE PROVIDED BY GC
CP-1	CUSTOM CANOPY	LOBBY ENTRANCE	ARCHITECTURAL FABRICATORS	DARK BRONZE	HELIOS 399 X 446	ARCH. FABRICATORS 1-800-962-8027
EF-4	EXTERIOR BANDING	-	SHERWIN WILLIAMS	TRICORN BLACK	-	BRETT C. HUCKLEBURY 214-728-6696
EF-5	E.I.F.S	SHOP EXTERIOR	-	COLOR TO MATCH SADDLE TAN	1-1/2" EIFS OVER 5/8" DENS GLASS SHEATHING (EF-5)	-
GR-2	EXTERIOR MASONRY MORTAR	-	SGS-SOLOMON COLORS INC.	10X BUFF	TYPE S MORTAR	BART SNOWDEN 214-794-9159
M-1	EXTERIOR MASONRY	-	GC TO PROVIDE LOCAL ALTERNATE OR APPROVAL	CORONADO- TEXAS CREAM EL DORADO- AUSTIN CREAM	CORONADO STONE/ EL DORADO STONE REFER TO SPECS-047300	N/A
PT-3	EXTERIOR DOOR PAINT	-	SHERWIN WILLIAMS	NOMADIC DESERT	SW 6107	BRETT C. HUCKLEBURY 214-728-6696
PT-7	EXTERIOR FINISH	-	SHERWIN WILLIAMS	NOMADIC DESERT	SW 6107	BRETT C. HUCKLEBURY 214-728-6696
PT-9	EXTERIOR CORNICE	-	DRYVIT	BAVARIAN WOOD #448	SAND PEBBLE	N/A
MTL-1	MTL. ROOFING	SHOP ROOF	MEITL-SPAN	SOLAR WHITE	PREM. WEATHER XL E0.85 SRI:76	MEITL-SPAN 877-585-9969
MTL-2	RAKE, GUTTER, TRIM	EXTERIOR	MEITL-SPAN	BURNISHED SLATE	PREM. WEATHER XL E0.86 SRI:25	MEITL-SPAN 877-585-9969
ST-1	3 STEP STUCCO	EXTERIOR FACADE	-	CUSTOM INTEGRAL COLOR-MATCH SW 6107 NOMADIC DESERT	-	-

GENERAL NOTE

- DOWNSPOUTS ARE INDICATED FOR SIZE, QUANTITY, AND APPROXIMATE LOCATION ONLY.
- HOLLOW METAL STEEL DOORS, FRAMES, EXPOSED METAL FLASHING AND EXPOSED MISCELLANEOUS STEEL SHALL MATCH ADJACENT BUILDING COLOR UNLESS NOTED OTHERWISE. IF THERE ARE TWO ADJACENT COLORS AT THE DOOR LOCATIONS CONTRACTOR TO USE THE BASE OF THE BOTTOM FINISH FOR THE ENTIRE DOOR.
- SIGNAGE SHALL BE PERMITTED SEPARATELY.
- REFER TO THIS SHEET FOR FINISHES AND MATERIALS.
- PAINT EXPOSED STEEL BEAMS IN STORAGE AREA.
- THE LIGHT SOURCE FOR EXTERIOR FIXTURES SHALL NOT PROJECT BELOW THE OPAQUE HOUSING SELECTED. NO FIXTURE SHALL DIRECTLY PROJECT UGHT HORIZONTALLY.

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Exterior Elevations



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INTERIOR FINISH LEGEND

FINISH KEY	DESCRIPTION	LOCATION	MANUFACTURER	PRODUCT COLOR	IDENTIFICATION/ FINISH/ STYLE	CONTACT
PT-1	INTERIOR PAINT	-	SHERWIN WILLIAMS	BALANCED BEIGE (EGGSHELL FINISH)	SW 7037	BRETT C. HUCKLEBURY 214-728-6696
PT-2	INT. ACCENT PAINT (14" BELOW CLG. TILE)	-	SHERWIN WILLIAMS	BACKDROP (EGGSHELL FINISH)	SW 7025	BRETT C. HUCKLEBURY 214-728-6696
BS-1	WALL BASE	OFFICE INTERIOR	ARMSTRONG	60 JET BLACK	4" HIGH	N/A
PL-1	MILLWORK & INT. DOORS (MILLWORK & DOOR FACES)	-	WILSONART	STUDIO TEAK (RUN GRAIN VERTICAL)	7960K-18	N/A
PL-2	MILLWORK (MILLWORK WORK SURFACE)	-	WILSONART	BLACK	1595-60	N/A
GT-1	GRANITE COUNTER TOP	-	TO BE PROVIDED AT THE TIME OF MILLWORK DELIVERY AND INSTALL	ABSOLUTE BLACK	3 CM w/QUARTER ROUND EDGING	N/A
FRP-1	WALL PANEL	INTERIOR SHOP/RESTROOMS	MARLITE	WHITE (P100)-SHOP & RESTROOMS	PEBBLE SURFACE w/PLASTIC TRIM 4x8x3/32	NEALE SMITH (330) 260-7614

KEYNOTES

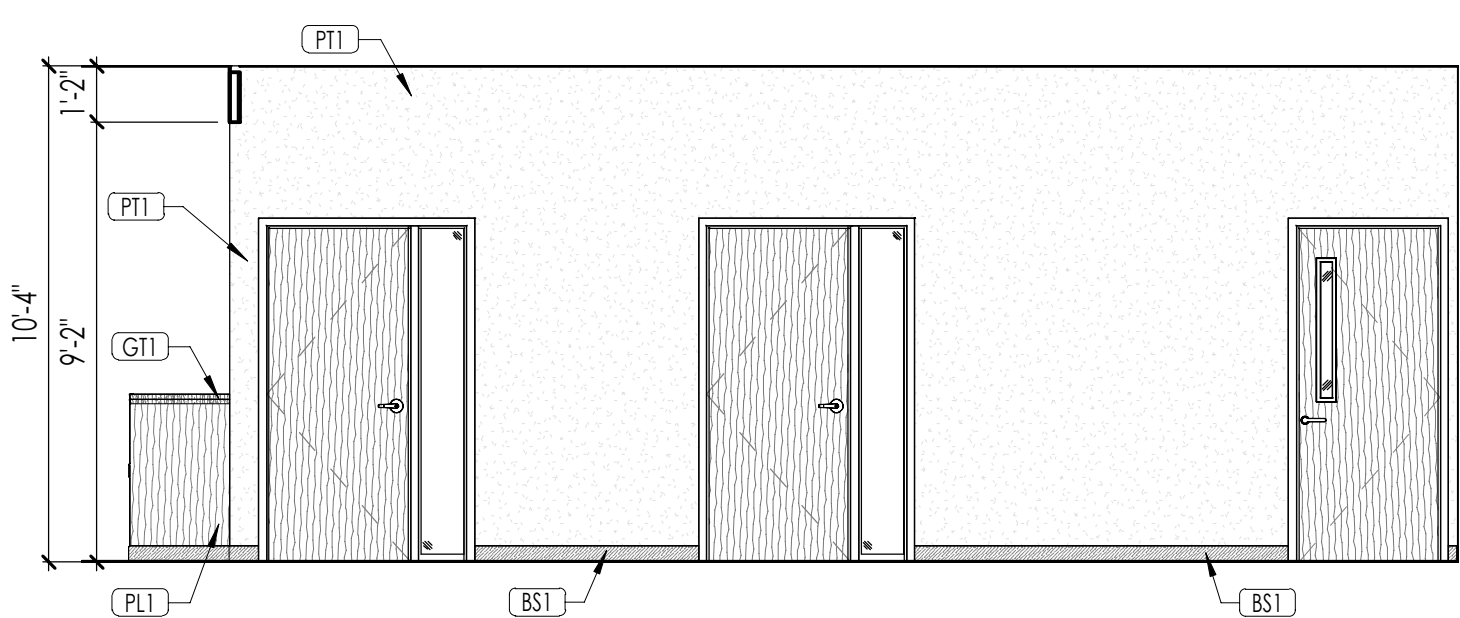
- (501) PLASTIC LAMINATE MILLWORK WITH GRANITE COUNTERTOP AND BACK SPLASH REFER TO MILLWORK SHEET.
- (502) WALL HUNG MOP SINK (REFER MEP).
- (503) 30 GAL. HOT WATER HEATER (REF. DTL. 05/A4.1 FOR FRAMING) (REFER MEP).
- (504) SURFACE MOUNTED PAPER TOWEL DISPENSER (BOBRICK B-2620).
- (505) ADA COMPLIANT HIGH/ LOW DRINKING FOUNTAIN (REFER PLUMBING DWG).
- (506) PLASTIC LAMINATE MILLWORK WITH COUNTERTOP AND 4" HIGH BACK SPLASH REFER TO MILLWORK SHEET.
- (507) OPEN DRAIN FOR CONDENSATE & WATER HEATER
- (508) WATER HEATER RESTRAINT STRAPS (SEISMIC STRAPS)
- (509) STORAGE SHELF BY GC
- (510) SCOREBOARD PROVIDED BY TENANT-GC TO CONFIRM SPECIFICATIONS FOR SCOREBOARD AND BLOCKING REQUIREMENT PRIOR TO INSTALLATION.

SHEET NOTES

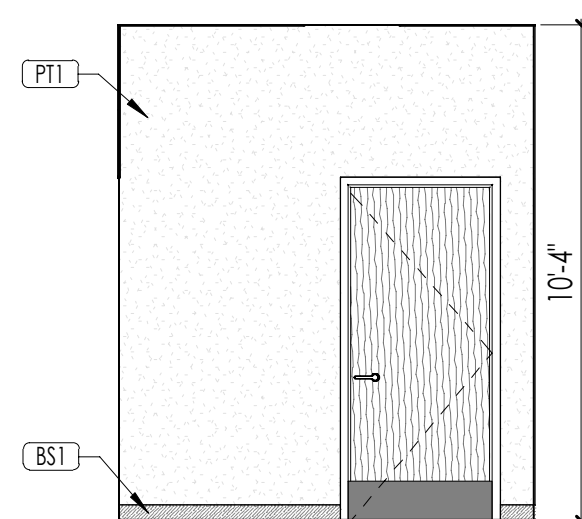
- ALL PLUMBING FIXTURES SHOWN ARE SHOWN FOR REPRESENTATION - REFER MEP SHEETS FOR FIXTURE SCHEDULE.

OWNER PROVIDED ITEMS

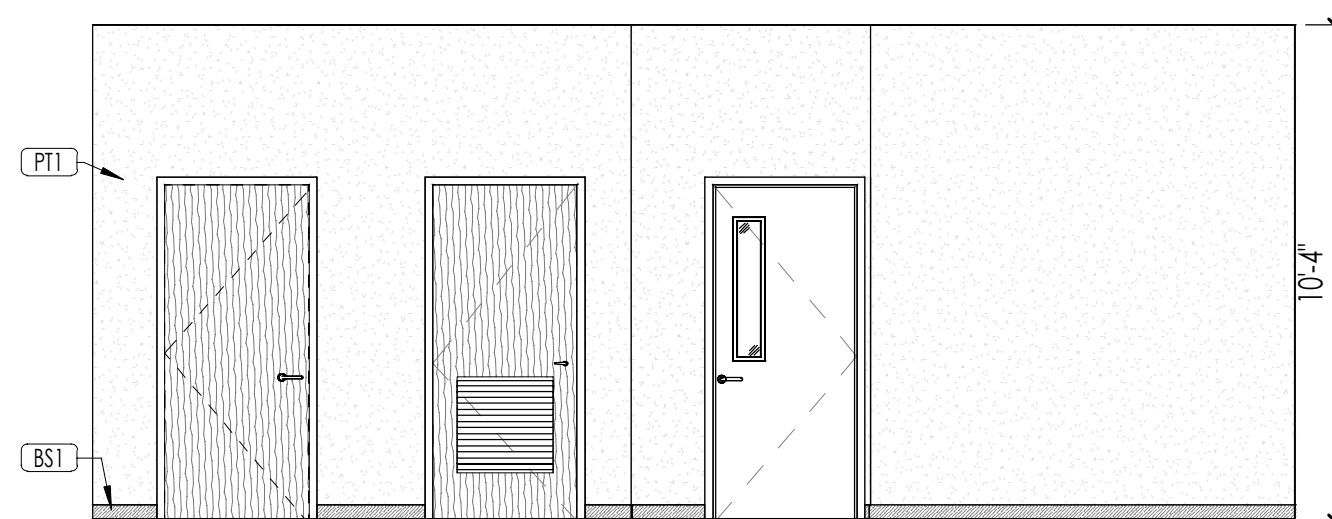
- (OPI.01) 36" X 28" X 18" LATERAL FILING CABINETS
- (OPI.02) LOBBY TELEVISION
- (OPI.03) EMPLOYEE LOCKERS
- (OPI.04) BREAKROOM REFRIGERATOR



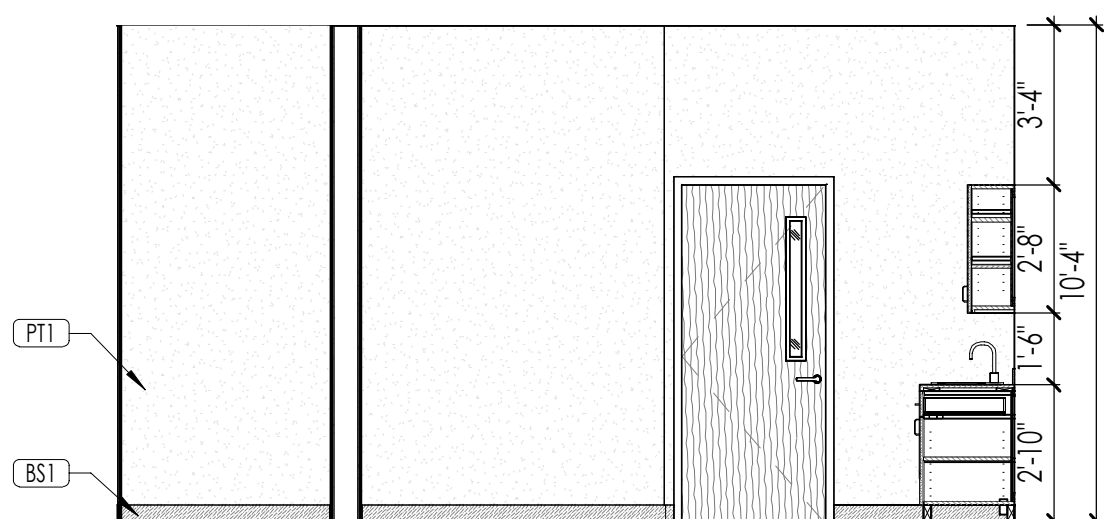
19 HALLWAY ELEVATION
SCALE: 1/4" = 1'-0" ROOM 108



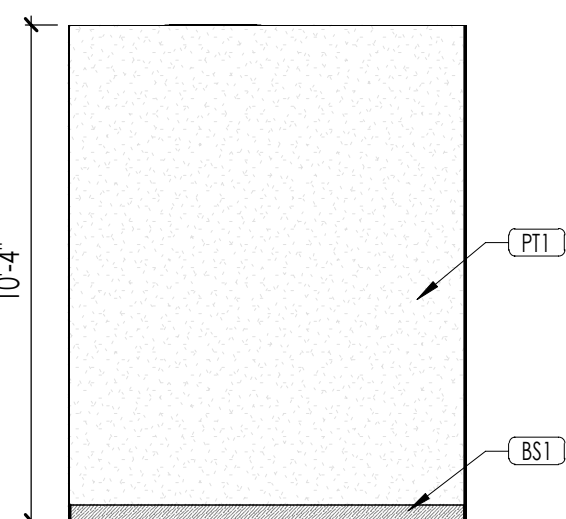
18 HALLWAY INTERIOR ELEVATION
SCALE: 1/4" = 1'-0" ROOM 108



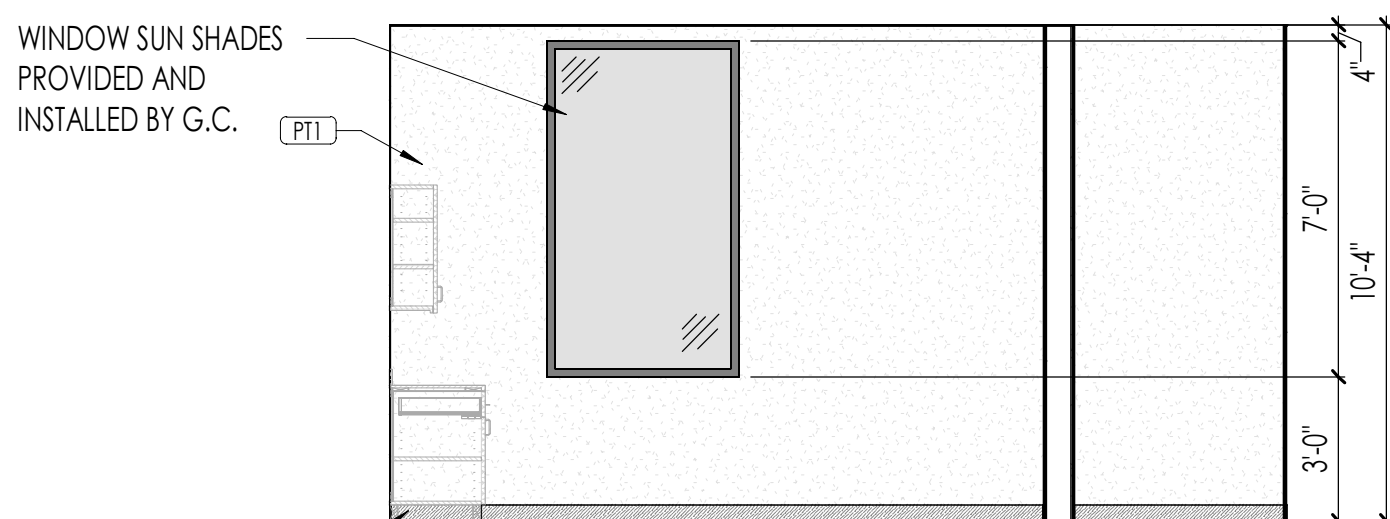
17 HALLWAY ELEVATION
SCALE: 1/4" = 1'-0" ROOM 108



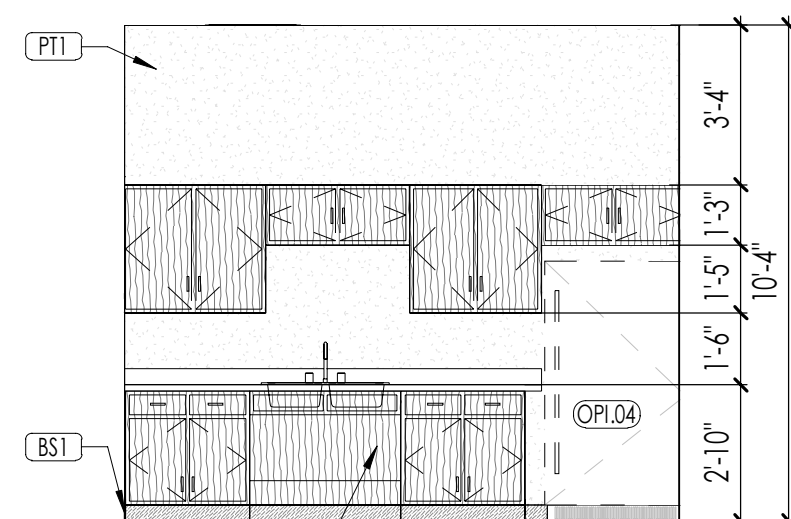
16 BREAKROOM ELEVATION-NORTH
SCALE: 1/4" = 1'-0" ROOM 103



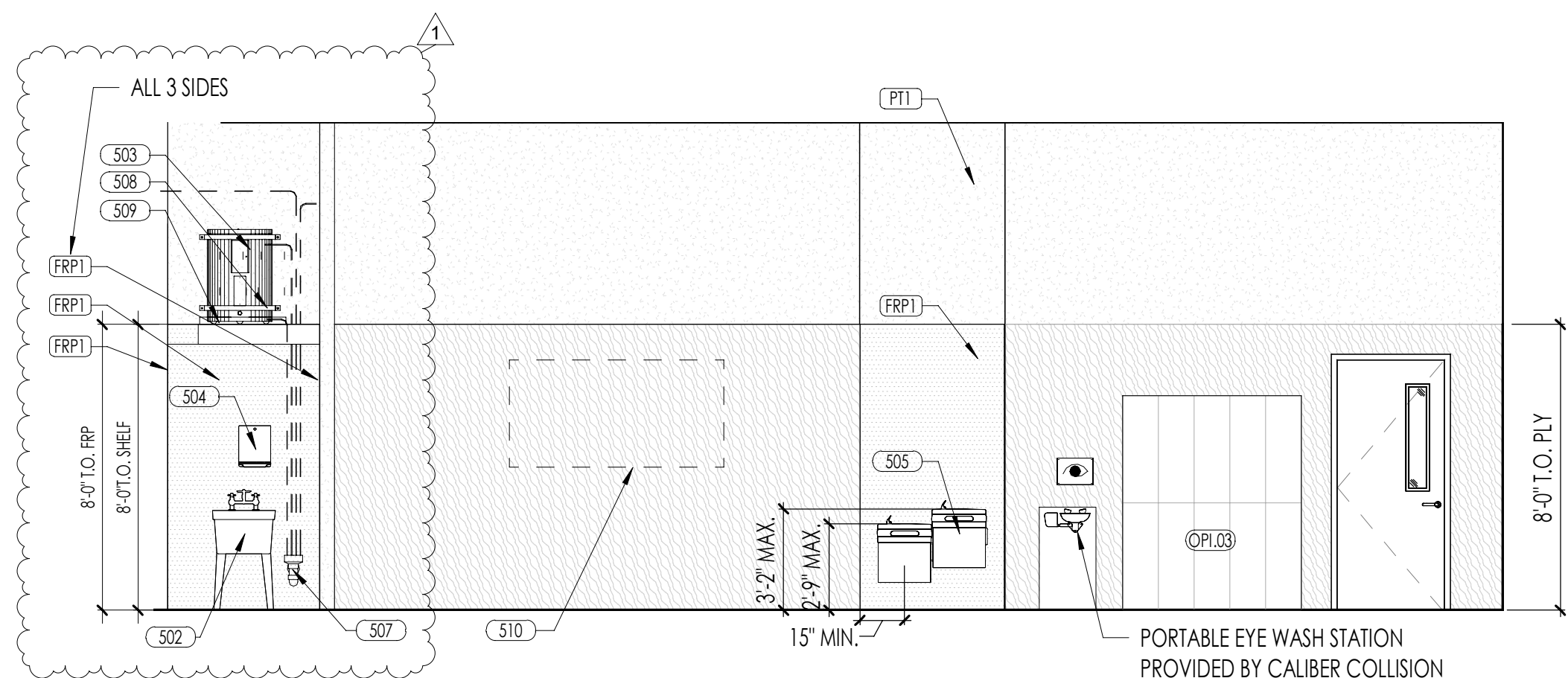
15 BREAKROOM ELEVATION-WEST
SCALE: 1/4" = 1'-0" ROOM 103



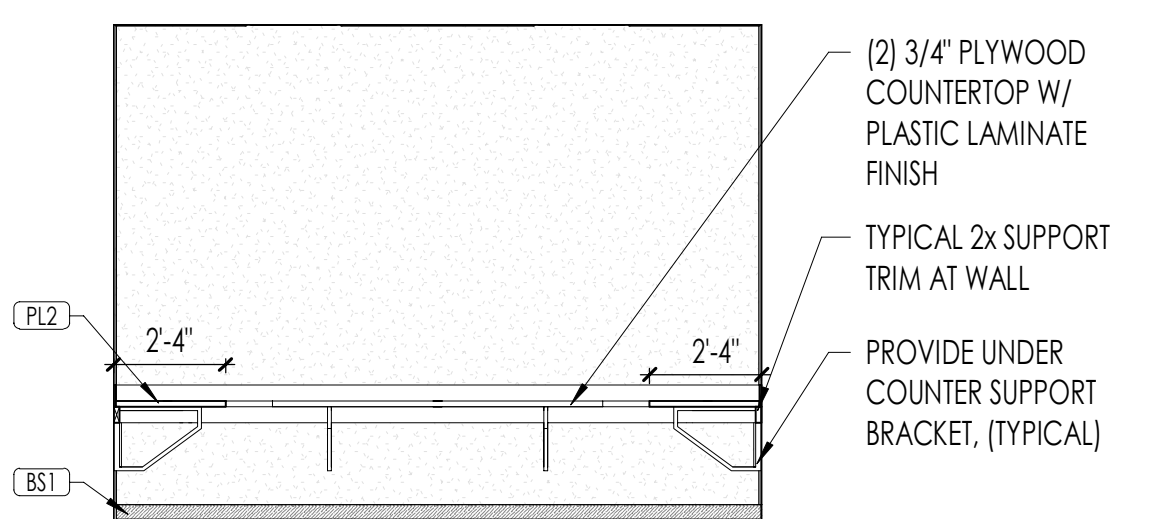
14 BREAKROOM ELEVATION-SOUTH
SCALE: 1/4" = 1'-0" ROOM 103



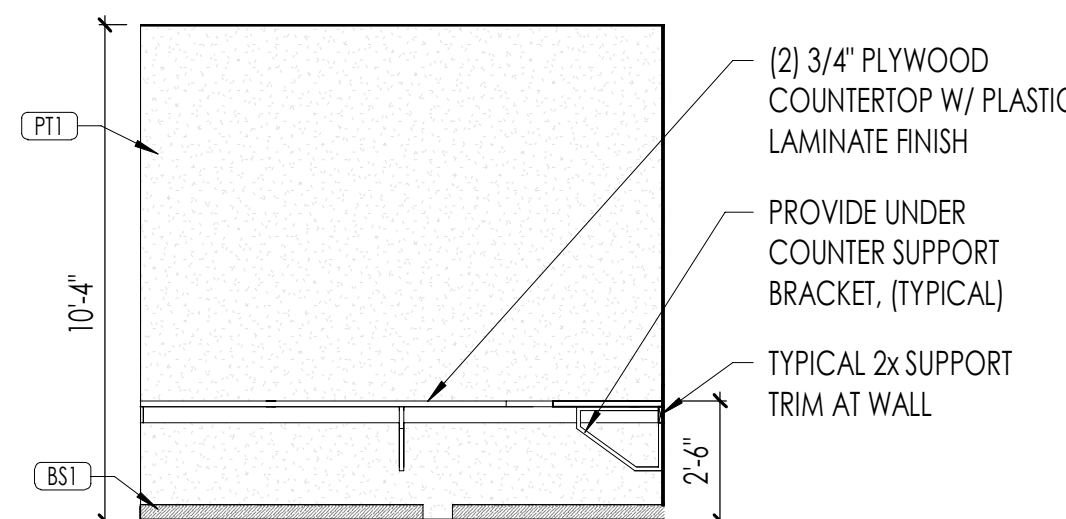
13 BREAKROOM ELEVATION-EAST
SCALE: 1/4" = 1'-0" ROOM 103



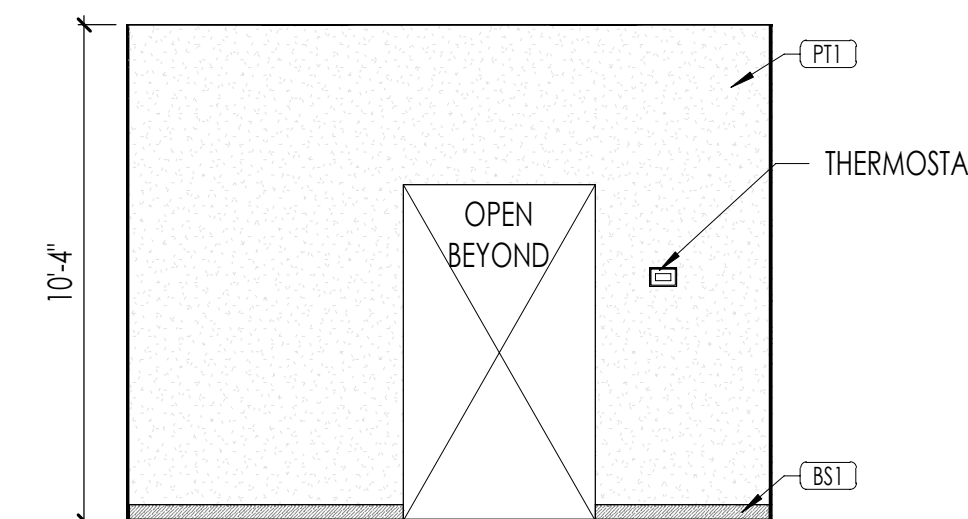
12 SHOP WALL
SCALE: 1/4" = 1'-0" ROOM 111



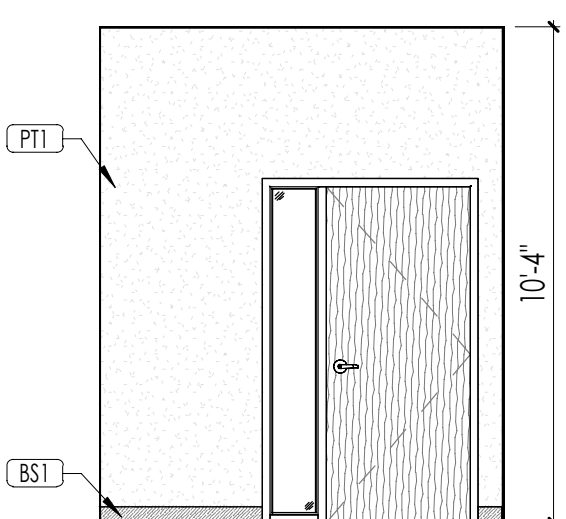
11 BULLPEN ELEVATION-WEST
SCALE: 1/4" = 1'-0" ROOM 104



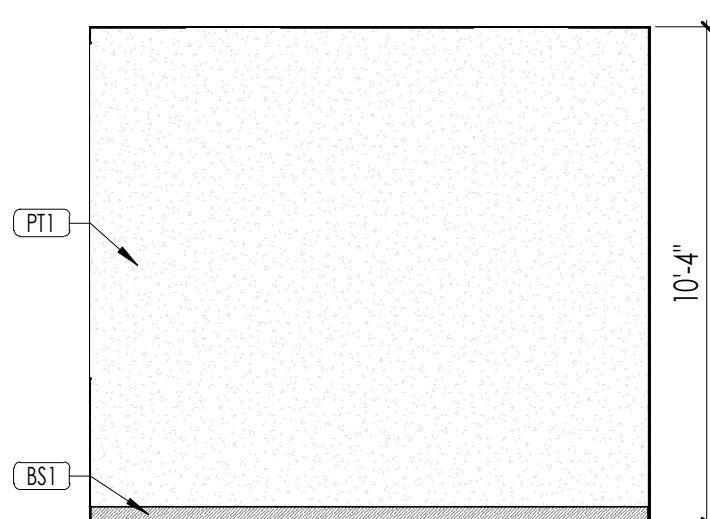
10 BULLPEN ELEVATION-SOUTH
SCALE: 1/4" = 1'-0" ROOM 104



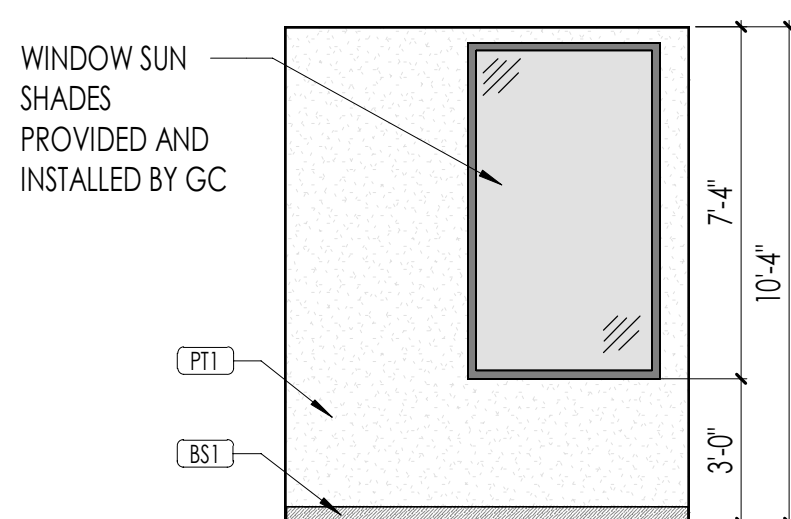
09 BULLPEN ELEVATION-EAST
SCALE: 1/4" = 1'-0" ROOM 104



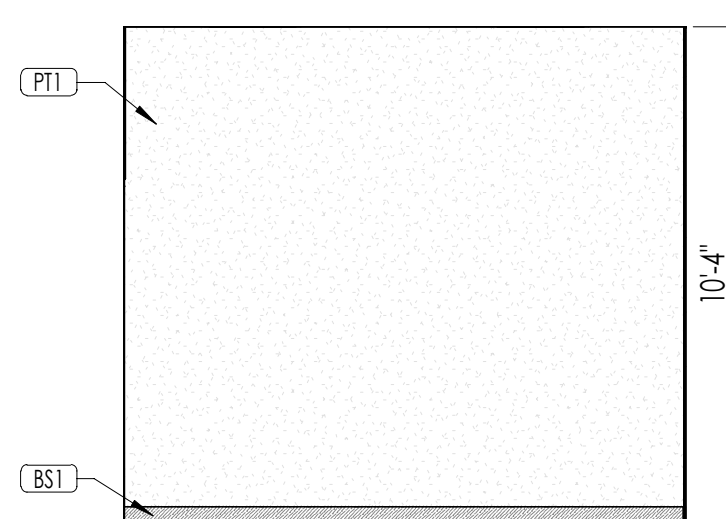
08 OFFICE ELEVATION-NORTH
SCALE: 1/4" = 1'-0" ROOM 101, 102



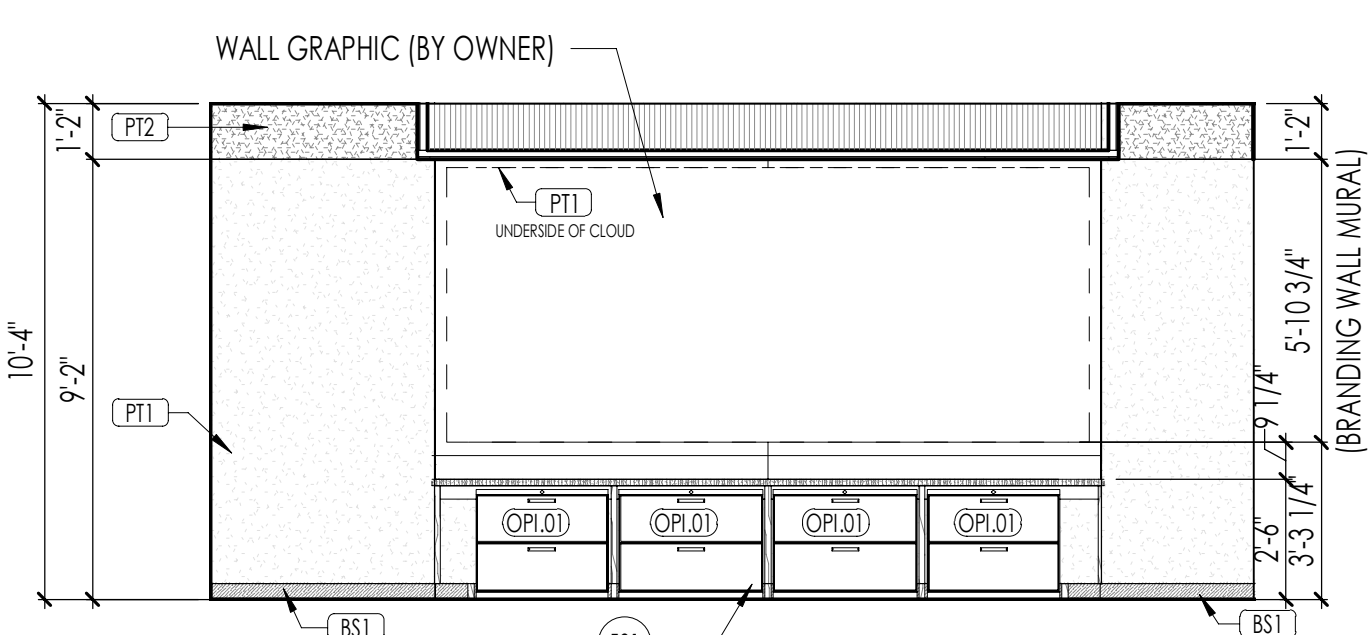
07 OFFICE ELEVATION-WEST
SCALE: 1/4" = 1'-0" ROOM 101, 102



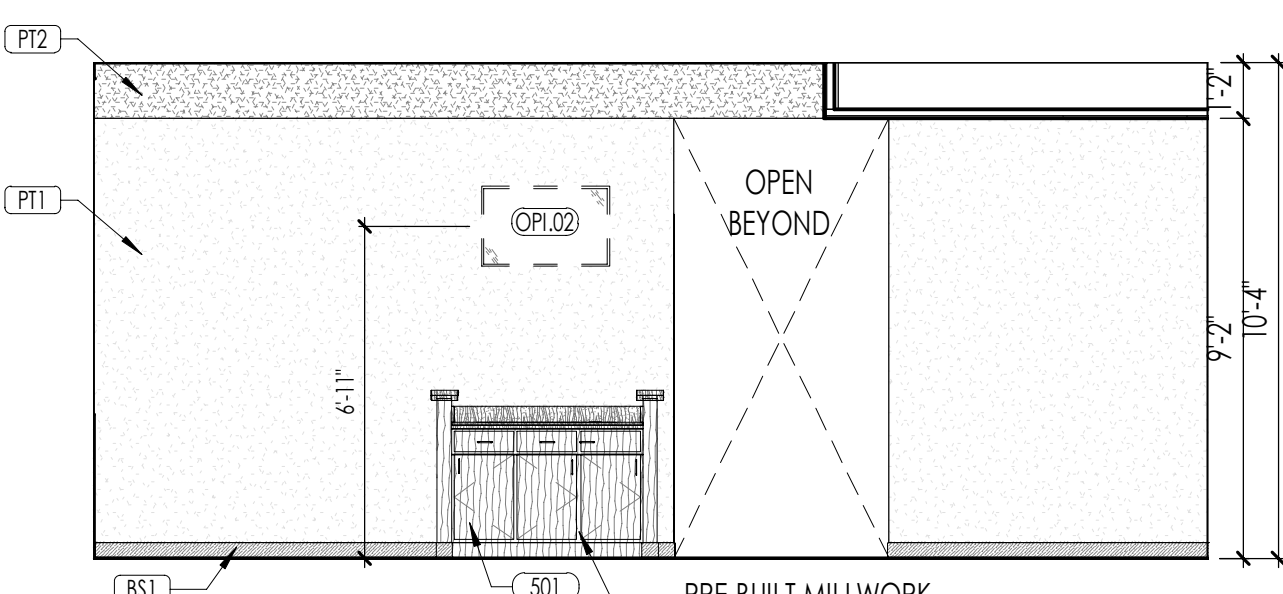
06 OFFICE ELEVATION-SOUTH
SCALE: 1/4" = 1'-0" ROOM 101, 102



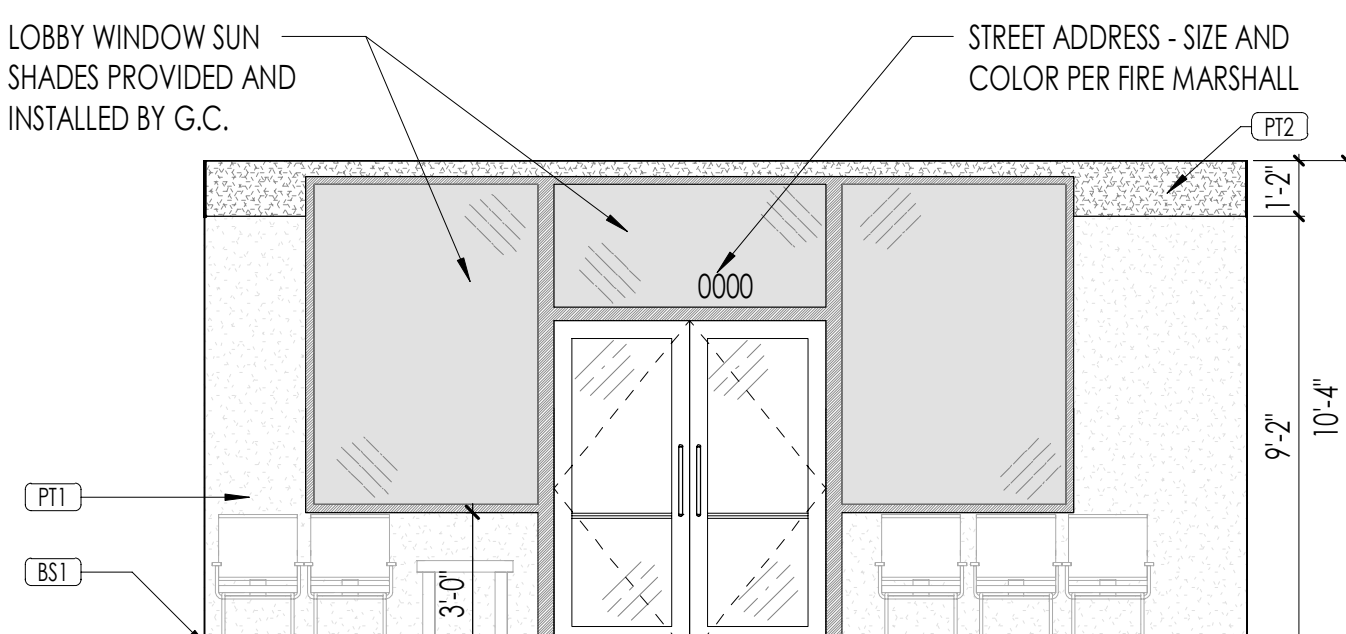
05 OFFICE ELEVATION-EAST
SCALE: 1/4" = 1'-0" ROOM 101, 102



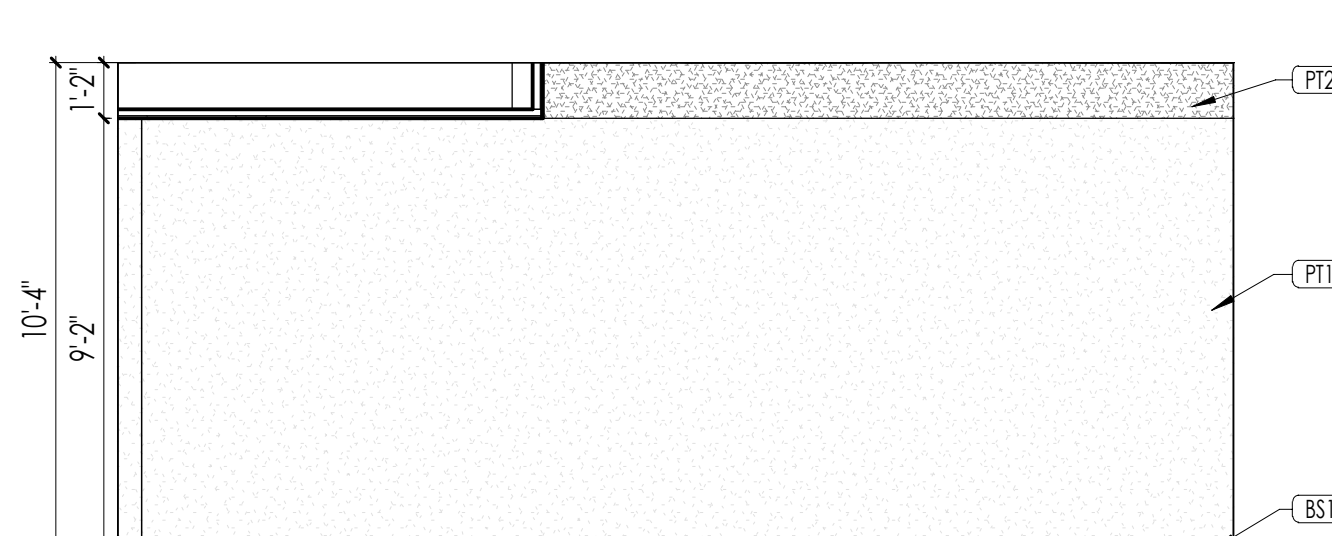
04 LOBBY INTERIOR ELEVATION-NORTH
SCALE: 1/4" = 1'-0" ROOM 100



03 LOBBY INTERIOR ELEVATION-WEST
SCALE: 1/4" = 1'-0" ROOM 100



02 LOBBY INTERIOR ELEVATION-SOUTH
SCALE: 1/4" = 1'-0" ROOM 100



01 LOBBY INTERIOR ELEVATION-EAST
SCALE: 1/4" = 1'-0" ROOM 100

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Job Number: 2071

Issue Date: 12.10.2021

Revisions: 01.07.2022

Revisions:

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Interior Elevations

Sheet Number: A2.1



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SHEET NOTES

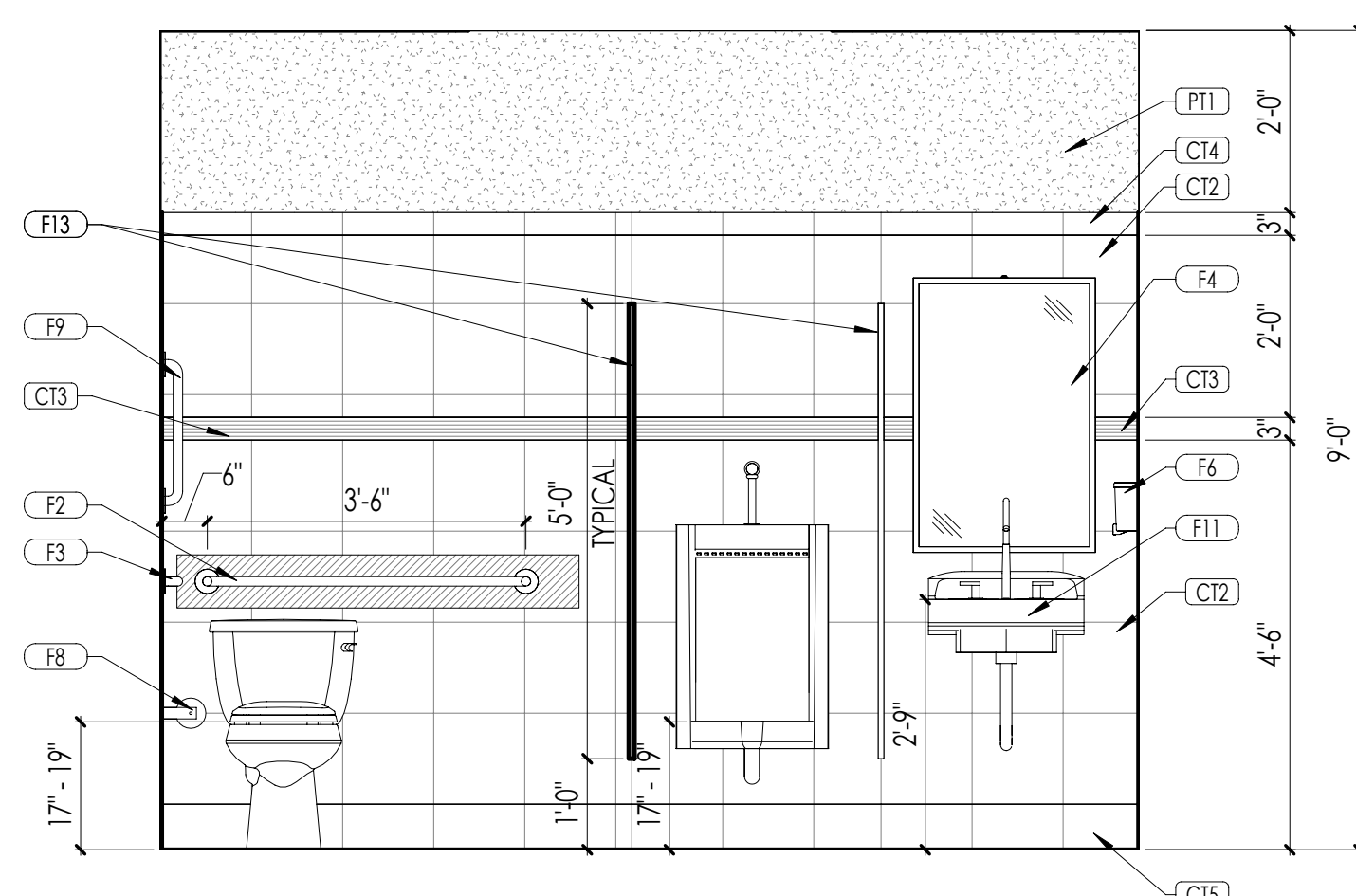
- ALL PLUMBING FIXTURES SHOWN ARE SHOWN FOR REPRESENTATION - REFER MEP SHEETS FOR FIXTURE SCHEDULE.
- PLANS DIMENSIONS ARE TO FACE OF FRAMING UNLESS NOTED OTHERWISE
- RESTROOM WALL TILES TO BE STACK BOND, ALIGN JOINTS OF TRIM & BASE TILE WITH FIELD TILE.

INTERIOR FINISH LEGEND

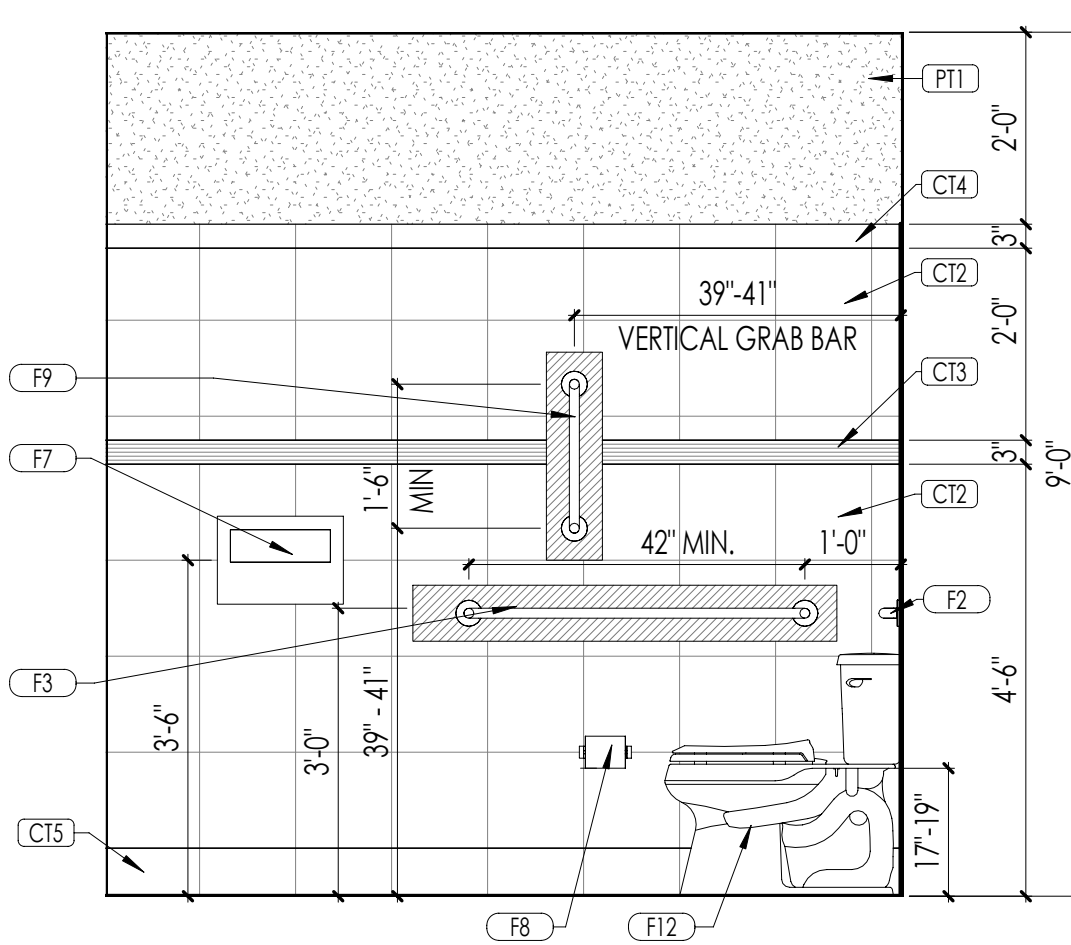
FINISH KEY	DESCRIPTION	LOCATION	MANUFACTURER	PRODUCT COLOR	IDENTIFICATION/ FINISH/ STYLE	CONTACT
PT-1	INTERIOR PAINT	-	SHERWIN WILLIAMS	BALANCED BEIGE (EGGSHELL FINISH)	SW 7037	BRETT C. HUCKLEBURY 214-728-6696
CT-2	CERAMIC TILE	PUBLIC RESTROOMS WALLS	DAL TILE	ACCENT BROWN - VOLUME 1.0	VL78-12x12" AT PUBLIC RESTROOMS	NATIONALACCOUNTS@DALTILE.COM 877-556-5728
CT-3	CERAMIC TILE	PUBLIC RESTROOMS	DAL TILE	EVENING SKY	BP97 15/8"x3" BRICK JOINT ACCENT BAND AT PUBLIC RESTROOMS	NATIONALACCOUNTS@DALTILE.COM 877-556-5728
CT-4	CERAMIC TILE	PUBLIC RESTROOMS	DAL TILE	ACCENT BROWN - VOLUME 1.0	P-43C9 3"x12" BULLNOSE	NATIONALACCOUNTS@DALTILE.COM 877-556-5728
CT-5	CERAMIC TILE	PUBLIC RESTROOMS	DAL TILE	ACCENT BROWN - VOLUME 1.0	P-36C9 6"x12" COVE BASE	NATIONALACCOUNTS@DALTILE.COM 877-556-5728

RESTROOM FIXTURE KEYNOTES

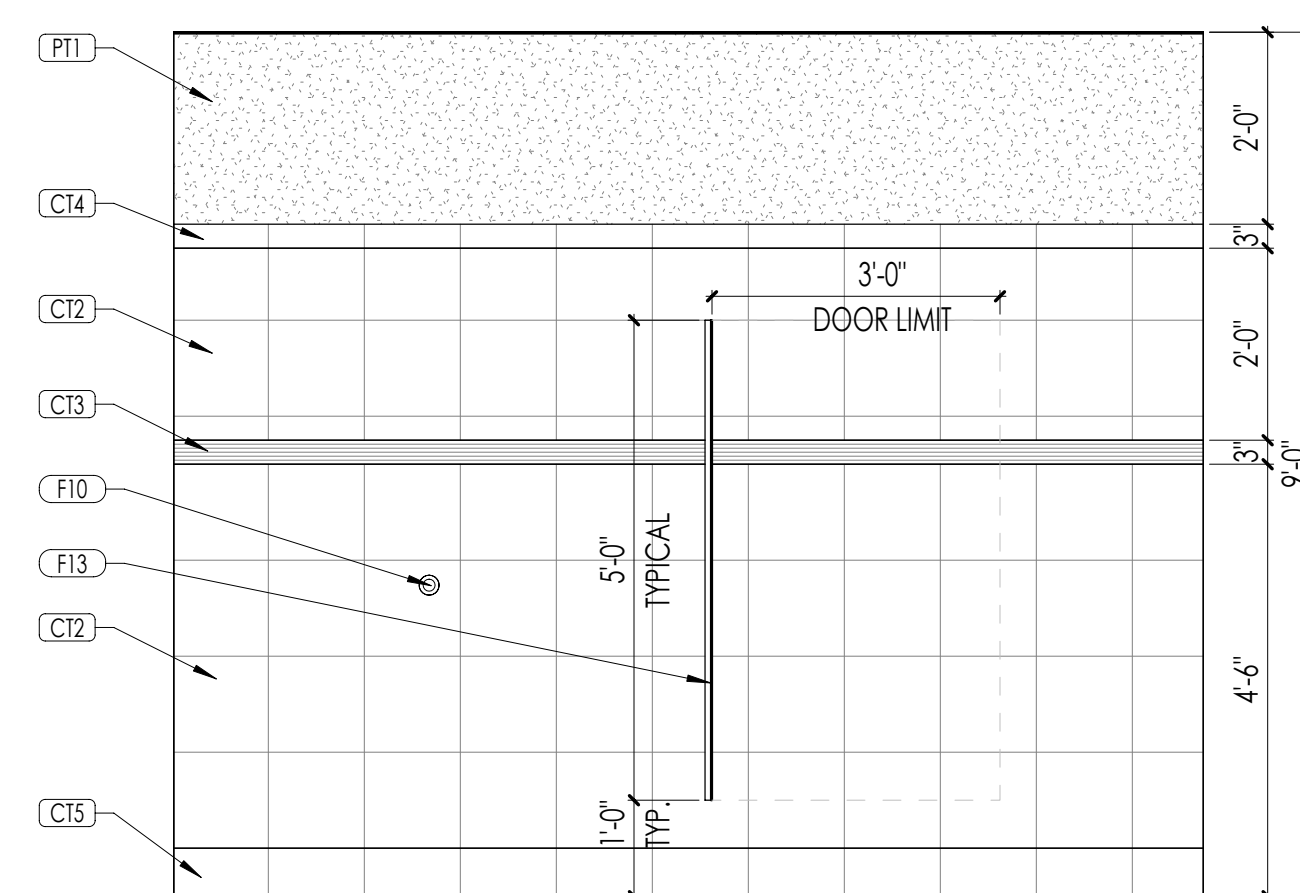
- F1 RECESSED PAPER TOWEL DISPENSER/ WASTE RECEPTACLES (BOBRICK B-369)
- F2 42" GRAB BAR - PROVIDE BLOCKING (BOBRICK B-5806 x 42)
- F3 36" GRAB BAR - PROVIDE BLOCKING (BOBRICK B-5806 x 36)
- F4 24" x 36" MIRROR (BOBRICK B-293 2436). [USE A PLYWOOD TEMPLATE PLACE HOLDER DURING WALL TILE INSTALLATION, 24" x 36"]
- F5 SANITARY NAPKIN DISPOSAL - ONLY AT WOMENS (BOBRICK B-270)
- F6 SOAP DISPENSER (BOBRICK B-40)
- F7 TOILET SEAT COVER DISPENSER (BOBRICK B-221)
- F8 TOILET TISSUE DISPENSER (BOBRICK B-2730)
- F9 18" VERTICAL GRAB BAR (WALL MOUNTED) (BOBRICK B-5806 x 18)
- F10 2 1/2" CONVEX DOOR BUMPER (DELTANA - WBC250U26)
- F11 29 1/2" X 18" W SINK WITH GOOSENECK FAUCET AND CHROME PLATED P-TRAP (ELKAY LUSTERTONE LRAD-2918)
- F12 WATER CLOSET (KOHLER HIGHLINE FLOOR MOUNTED K-3658)
- F13 TOILET PARTITION (BOBRICK 1545 OVERHEAD BRACED-COLOR- GREY)



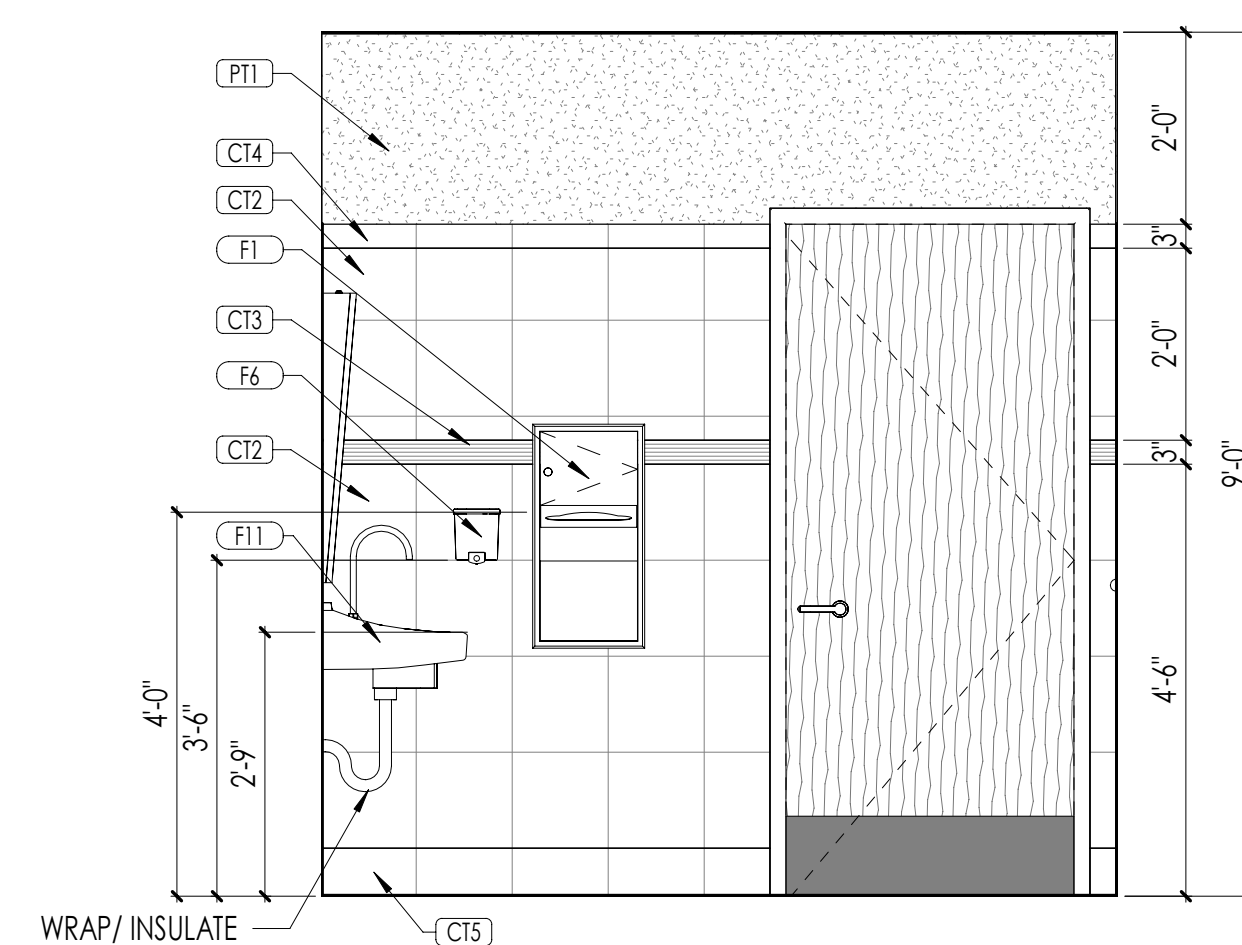
10 MEN'S RESTROOM
SCALE: 1/2" = 1'-0"



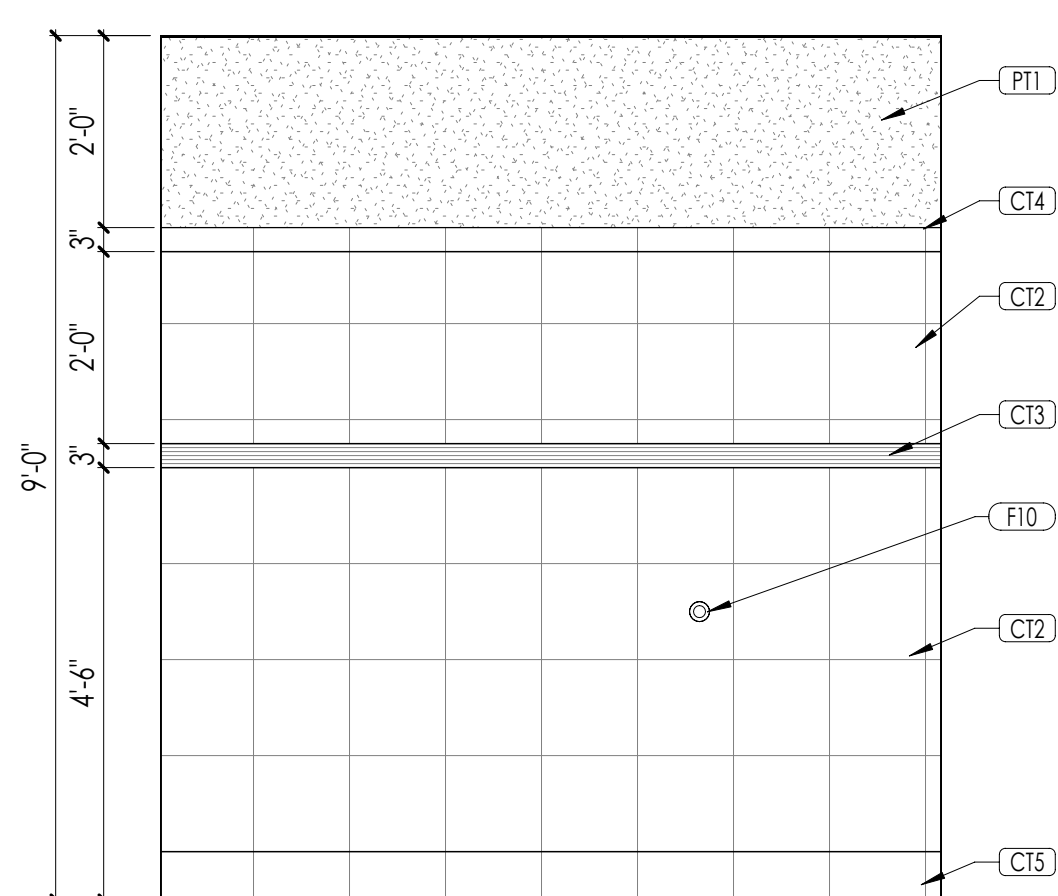
09 MEN'S RESTROOM
SCALE: 1/2" = 1'-0"



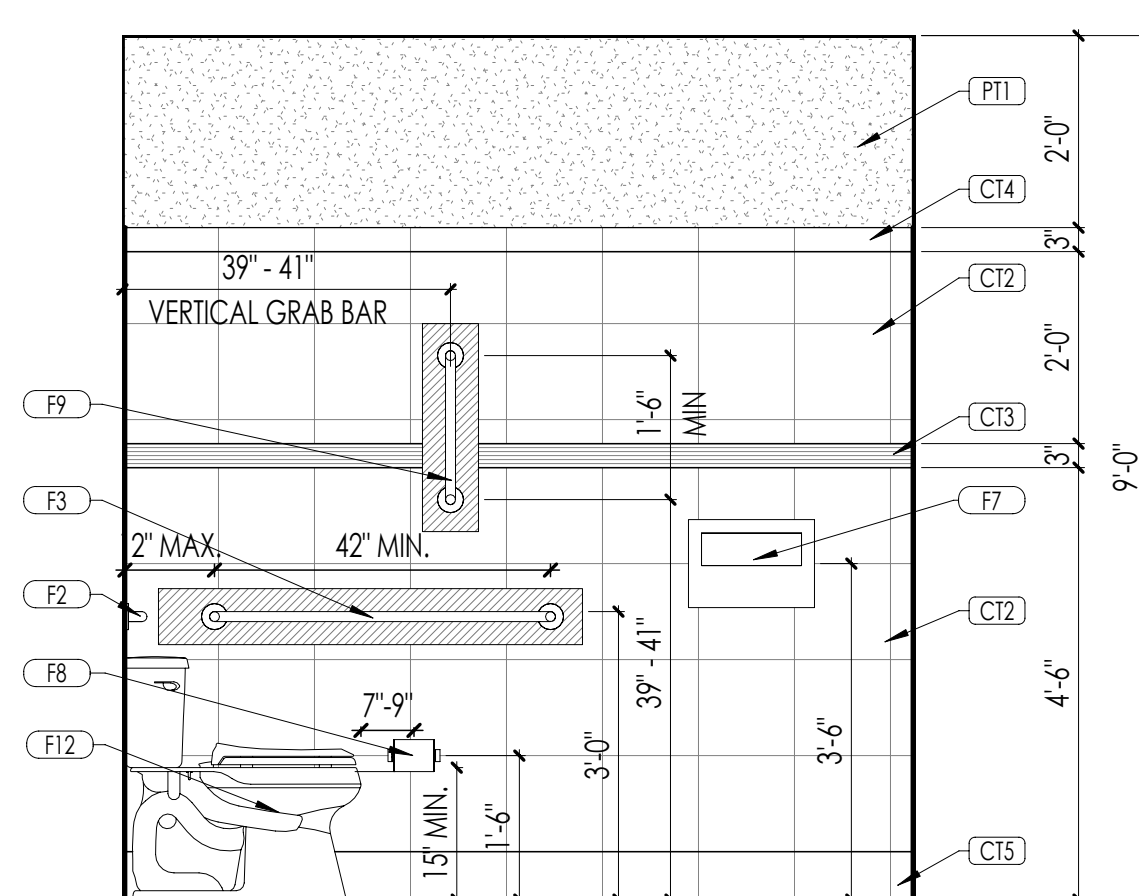
08 MEN'S RESTROOM
SCALE: 1/2" = 1'-0"



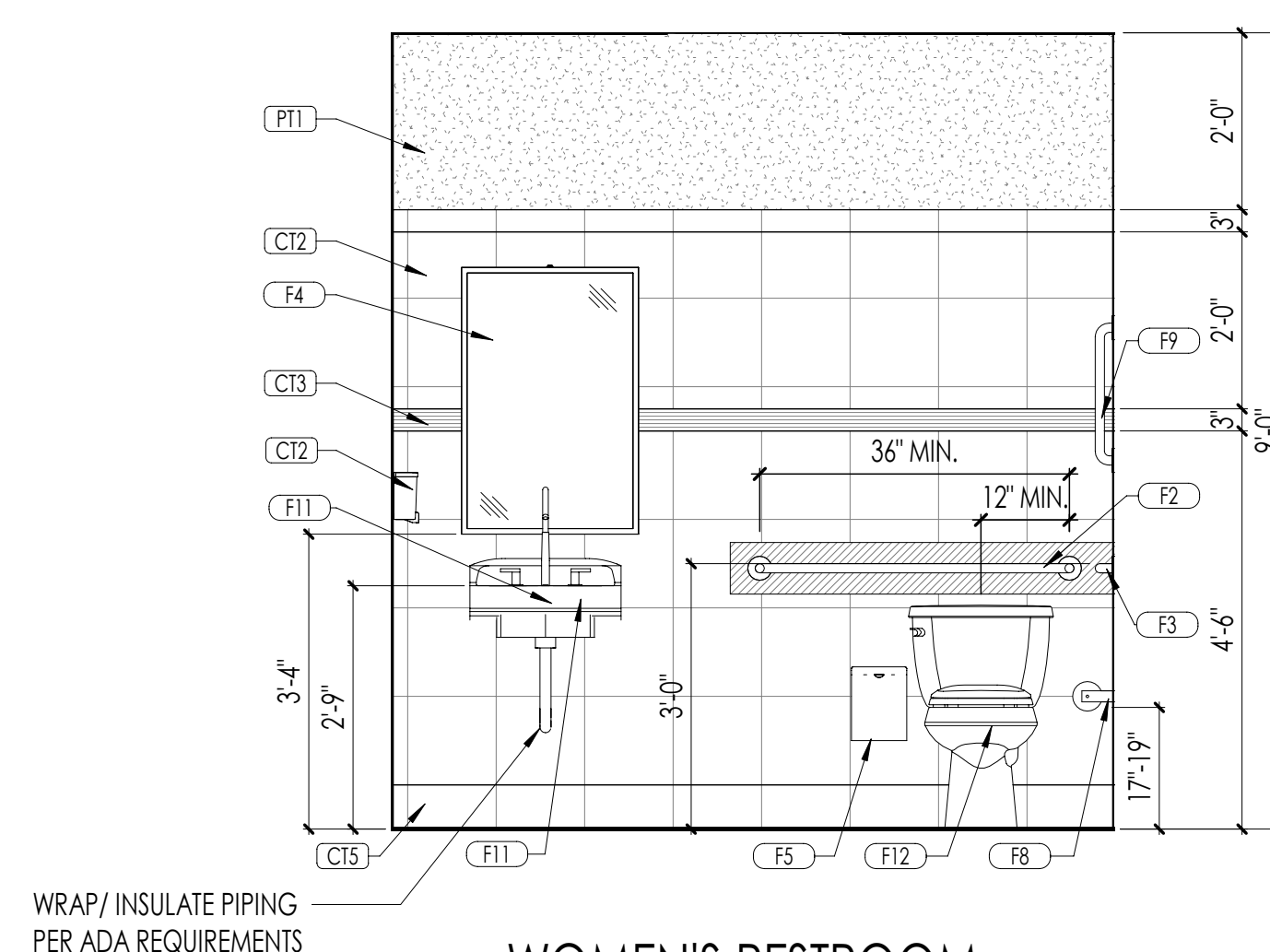
07 MEN'S RESTROOM
SCALE: 1/2" = 1'-0"



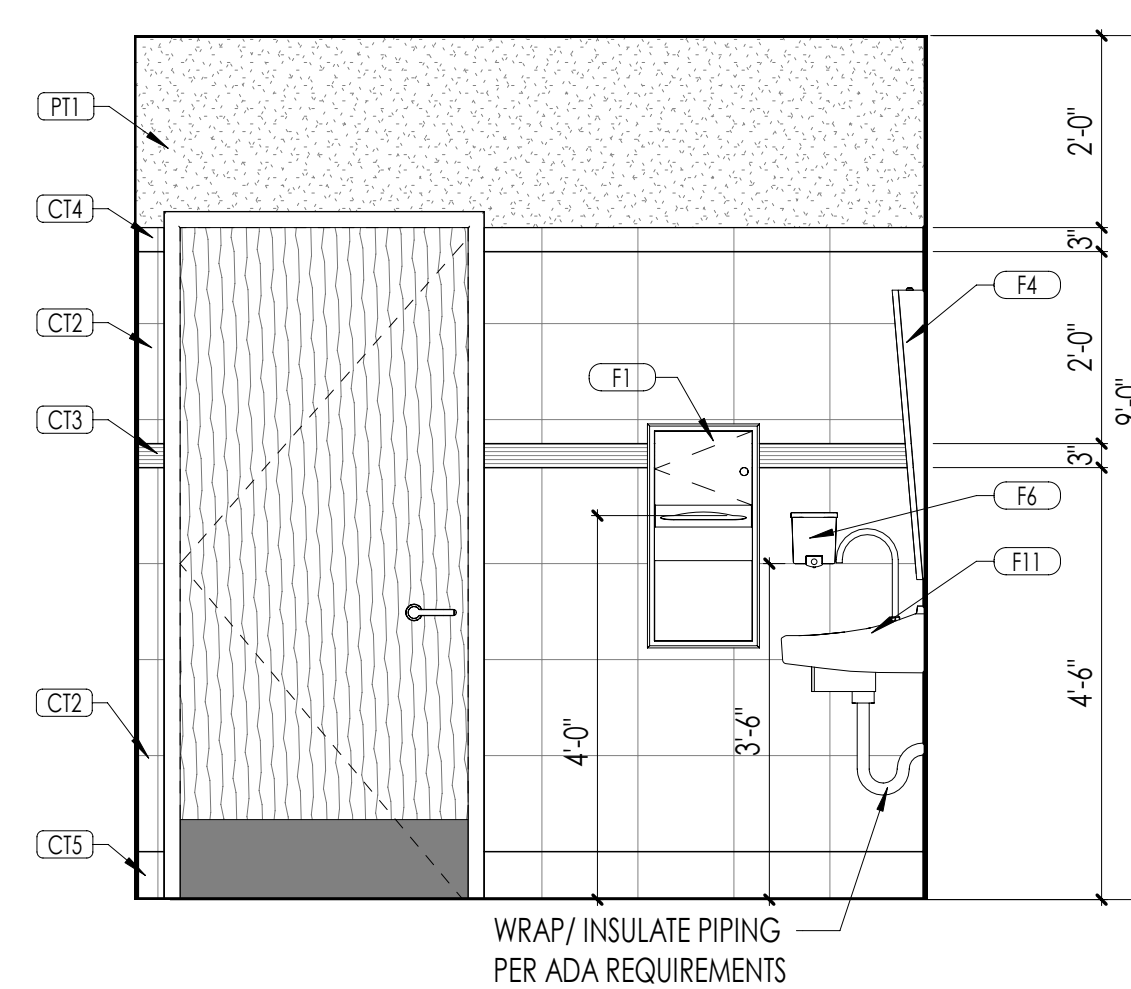
06 WOMEN'S RESTROOM
SCALE: 1/2" = 1'-0"



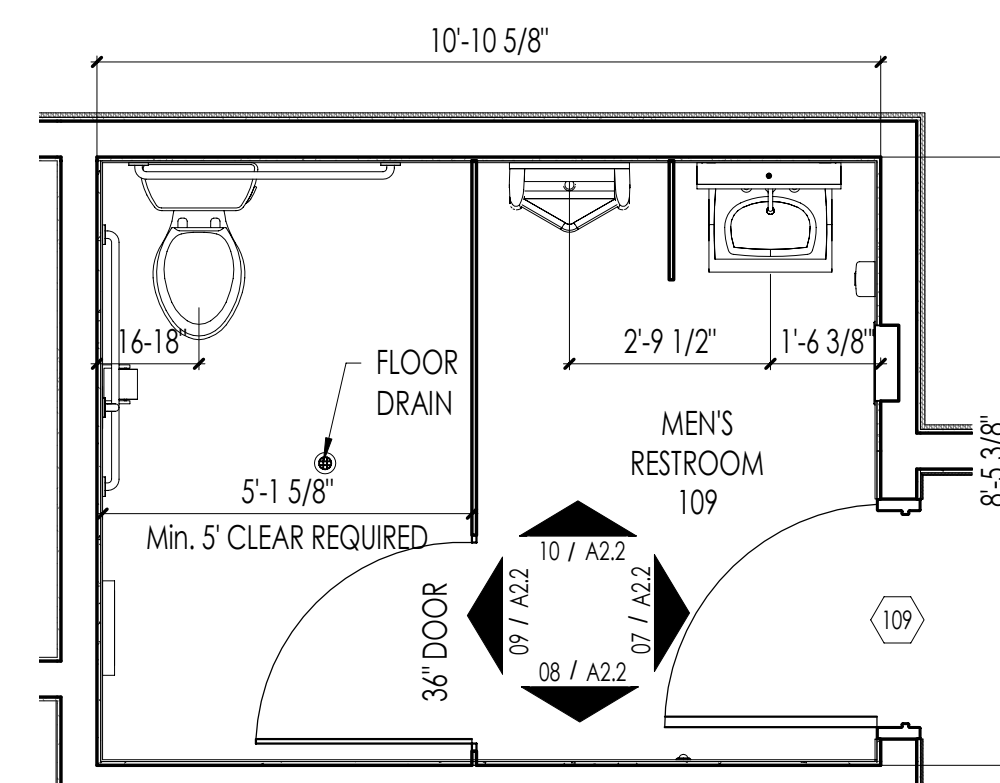
05 WOMEN'S RESTROOM
SCALE: 1/2" = 1'-0"



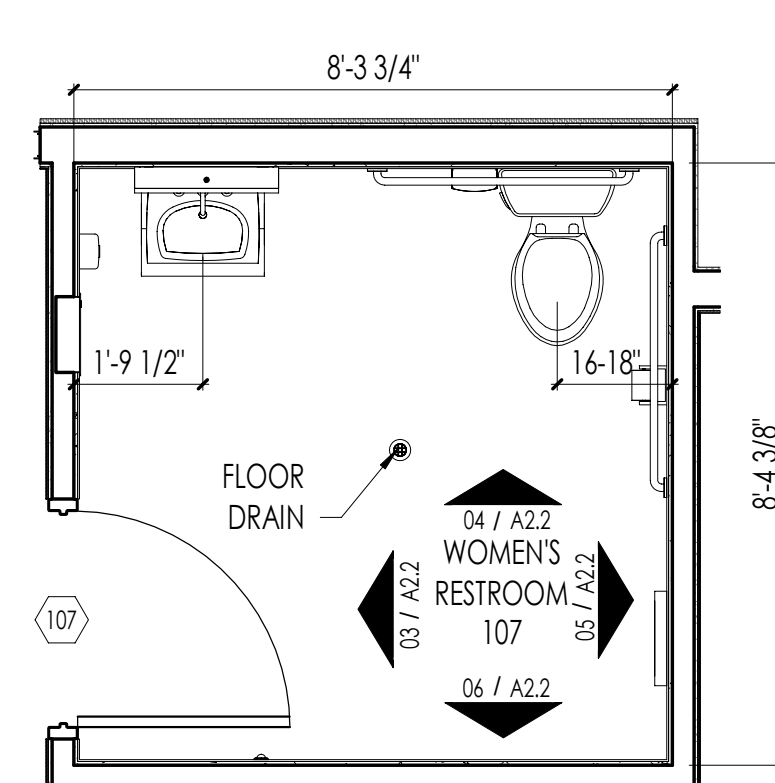
04 WOMEN'S RESTROOM
SCALE: 1/2" = 1'-0"



03 WOMEN'S RESTROOM
SCALE: 1/2" = 1'-0"



02 ENLARGED RESTROOM PLAN
SCALE: 3/8" = 1'-0"



01 ENLARGED RESTROOM PLAN
SCALE: 3/8" = 1'-0"

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Job Number: 2071
Issue Date: 12.10.2021
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Interior Elevations

Sheet Number:

A2.2



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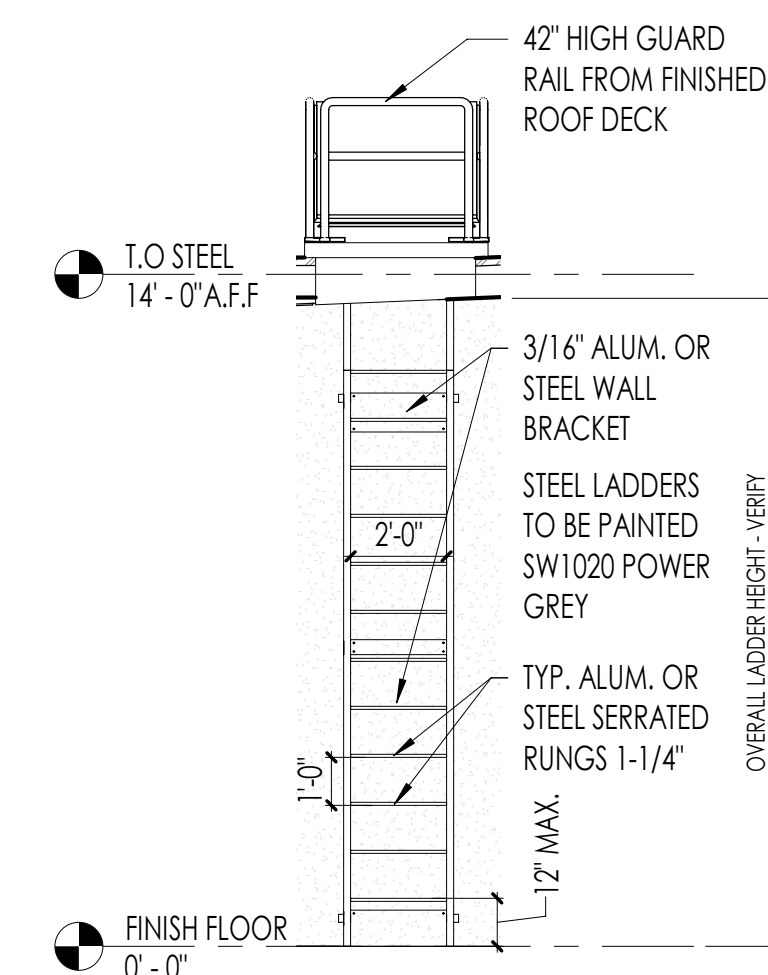
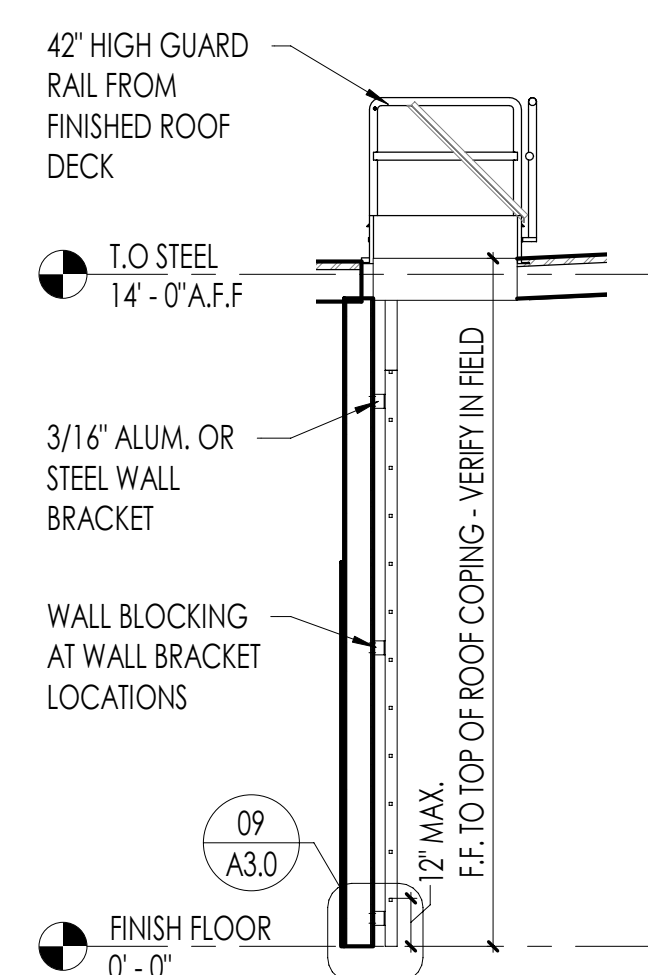
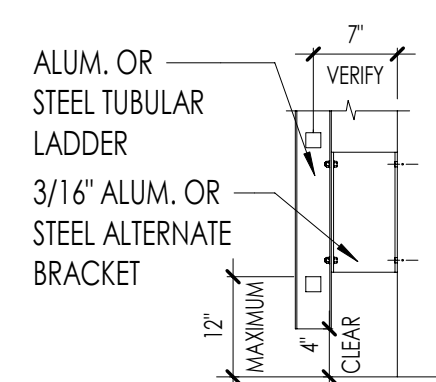


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- GENERAL OSHA STANDARDS**
1. RAILING SYSTEM SHALL BE DESIGNED TO WITHSTAND A 200 POUND TEST LOAD.
 2. RAILING SYSTEM SHALL CONSIST OF A TOP & MID RAIL AND CHAIN.
 3. RAILING SYSTEM SHALL EXTEND TO A HEIGHT OF AT LEAST 42" FROM FINISHED ROOF DECK.
 4. RAILING SYSTEM SHALL BE FREE OF SHARP EDGES AND SNAG POINTS.

FINISH: FACTORY FINISH SHALL BE ANODIZED ALUMINUM.

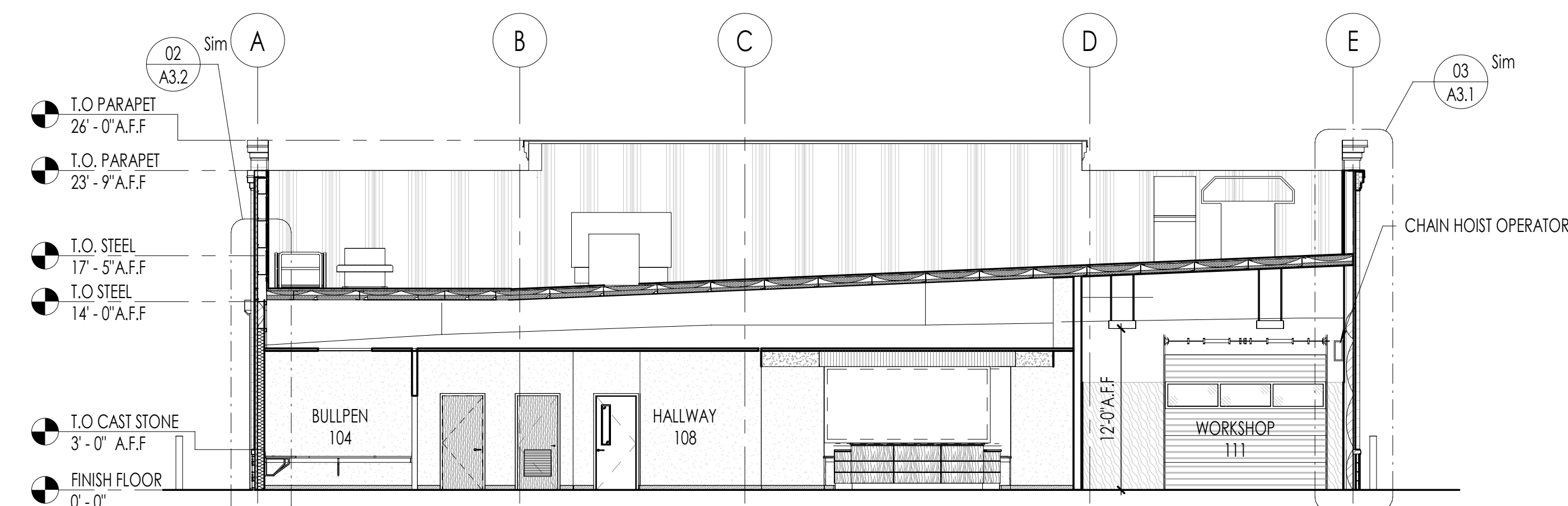


09 SECTION
SCALE: 3/4" = 1'-0"

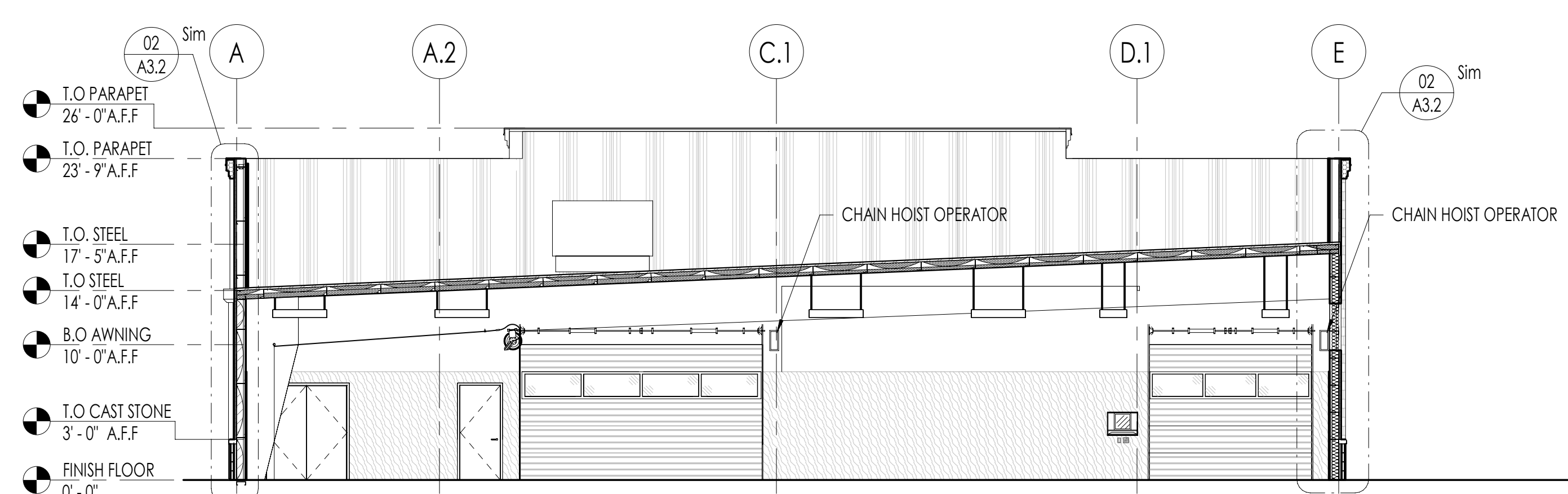
08 LADDER SECTION @ ELECT. ROOM
SCALE: 1/4" = 1'-0"

07 LADDER ELEVATION @ ELECT. ROOM
SCALE: 1/4" = 1'-0"

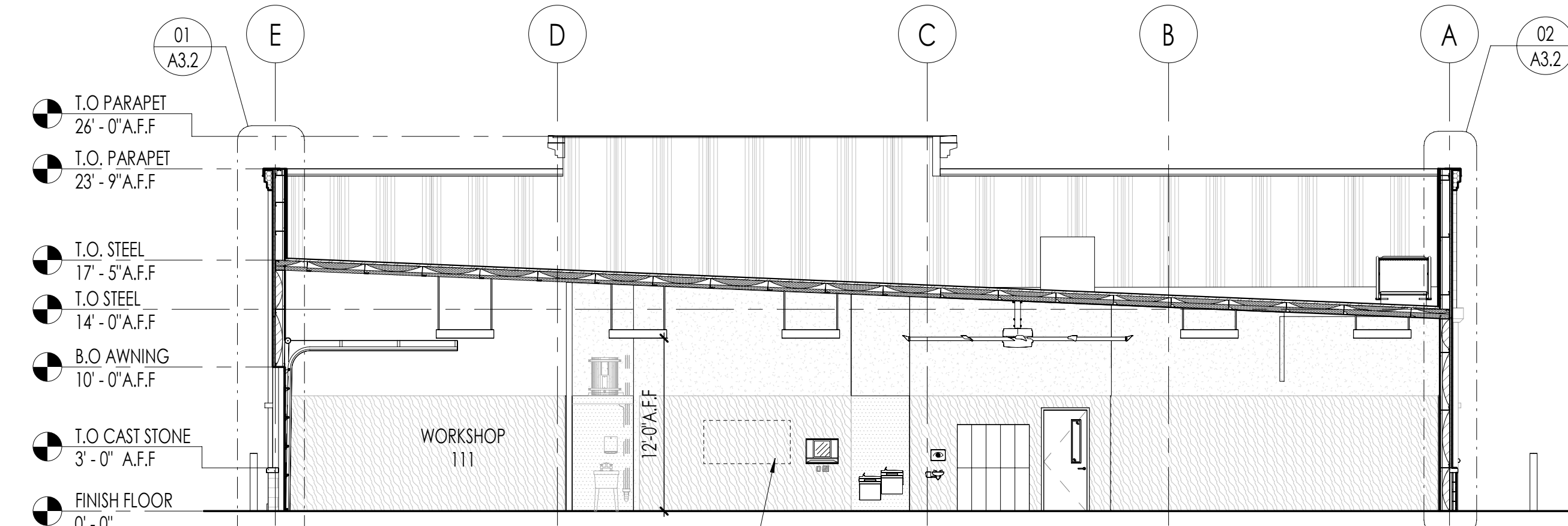
06 BUILDING SECTION- DETAIL BAY
SCALE: 1/8" = 1'-0"



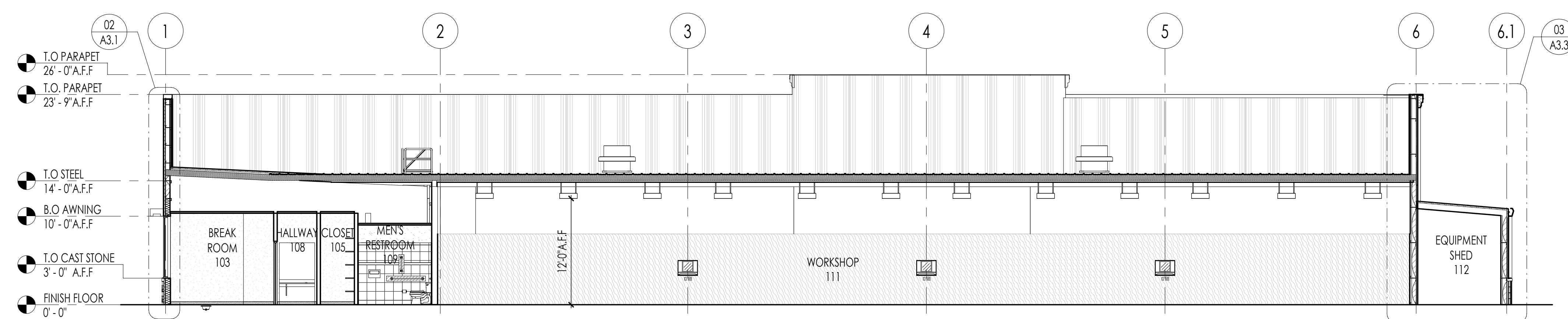
05 BUILDING SECTION-OFFICE
SCALE: 1/8" = 1'-0"



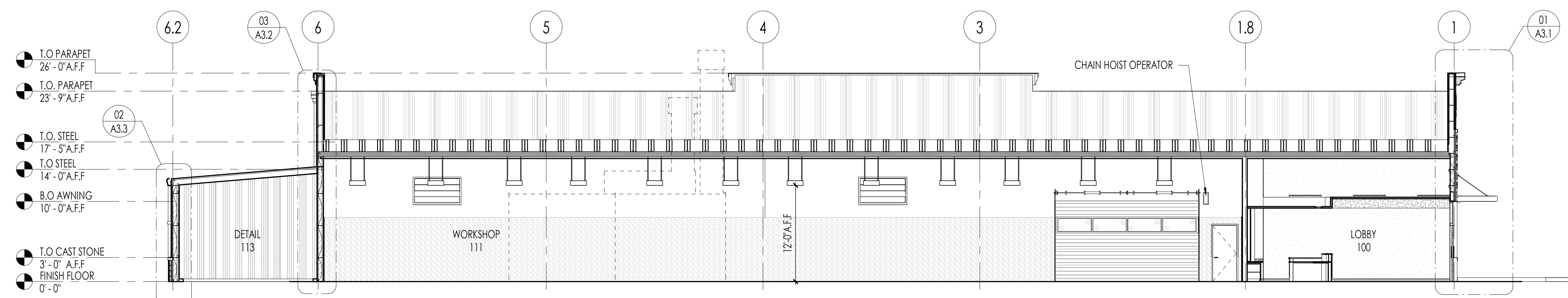
04 BUILDING SECTION-SHOP END WALL
SCALE: 1/8" = 1'-0"



03 BUILDING SECTION-OFFICE WALL
SCALE: 1/8" = 1'-0"



02 BUILDING SECTION
SCALE: 1/8" = 1'-0"



01 BUILDING SECTION
SCALE: 1/8" = 1'-0"

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Revisions: 01.07.2022

Revisions:

Revisions:

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Revisions:

Revisions:

Building Sections

Sheet Number:

A3.0





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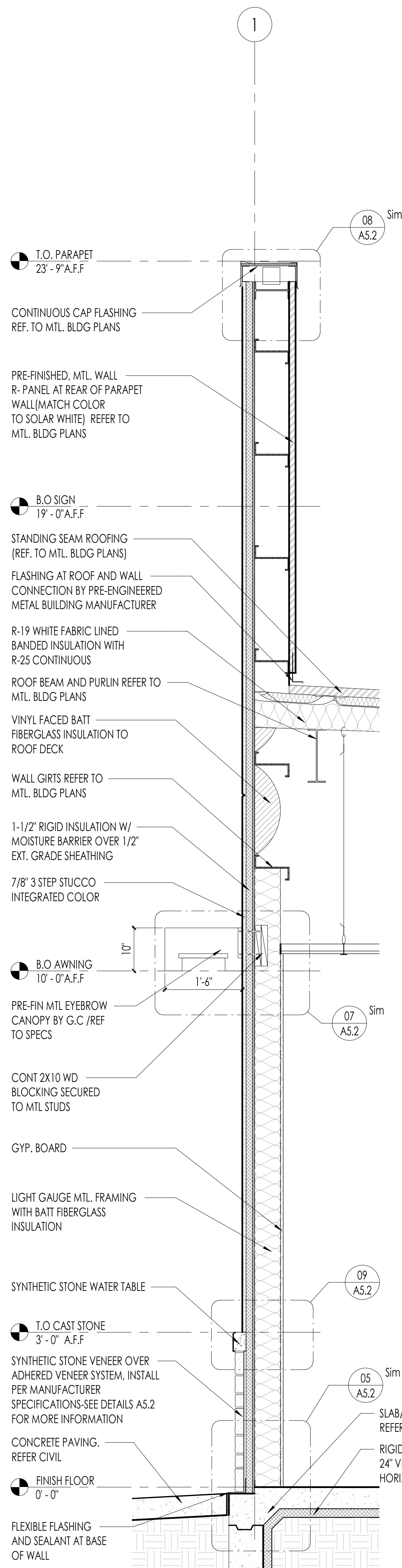
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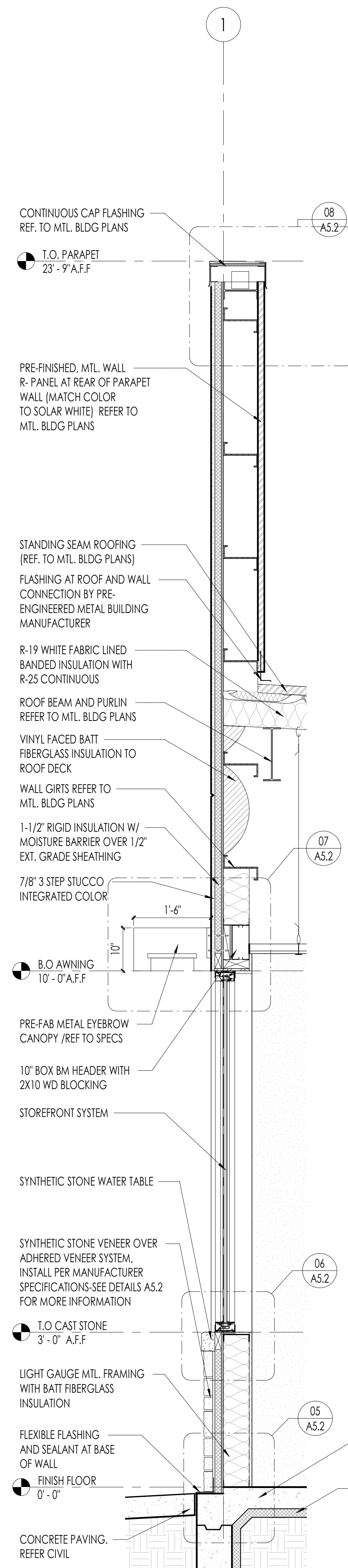


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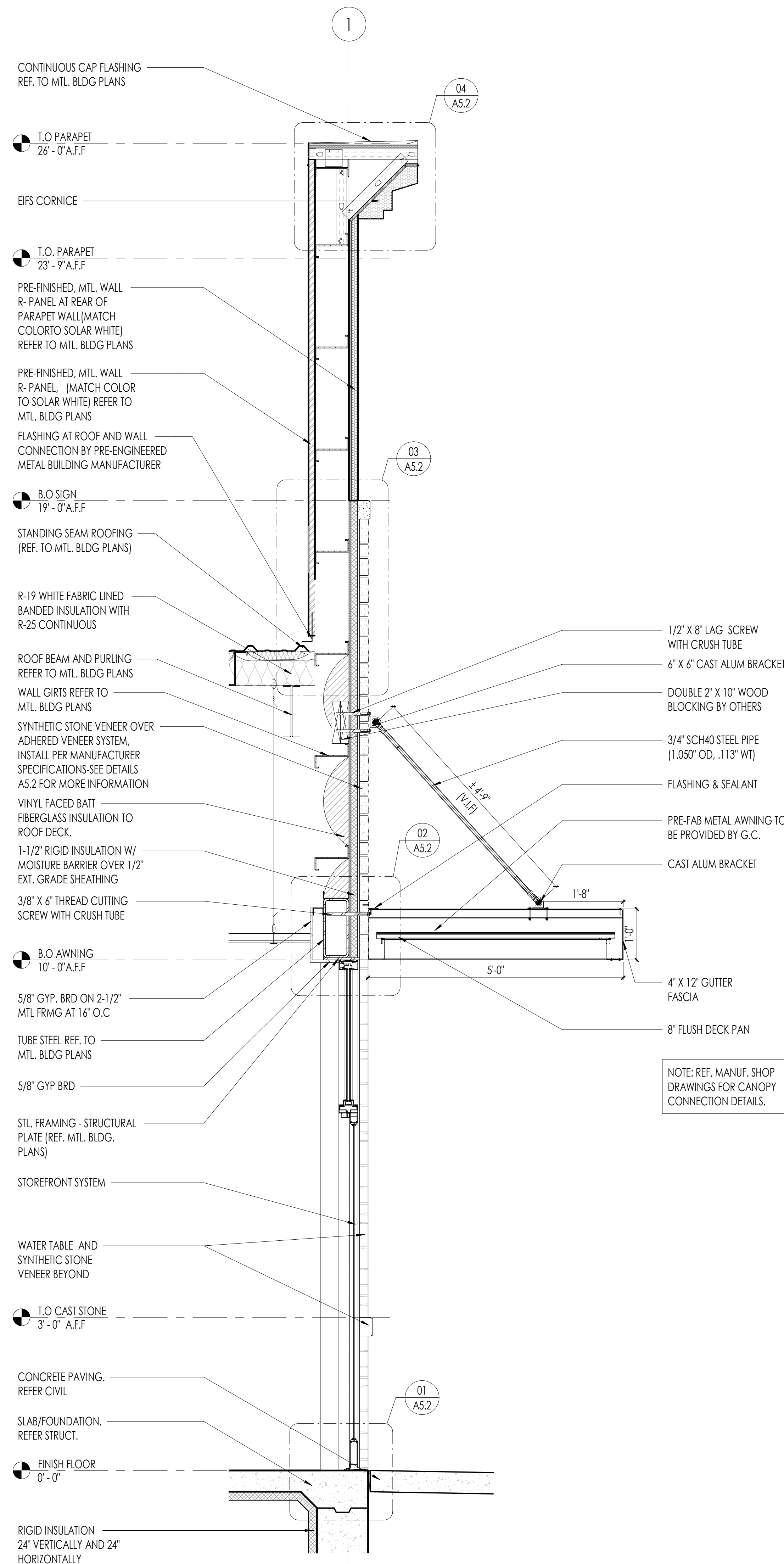
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03 OFFICE WALL SECTION
SCALE: 3/4" = 1'-0"



02 OFFICE WALL SECTION
SCALE: 3/4" = 1'-0"



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

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Exterior Wall Sections

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A3.1



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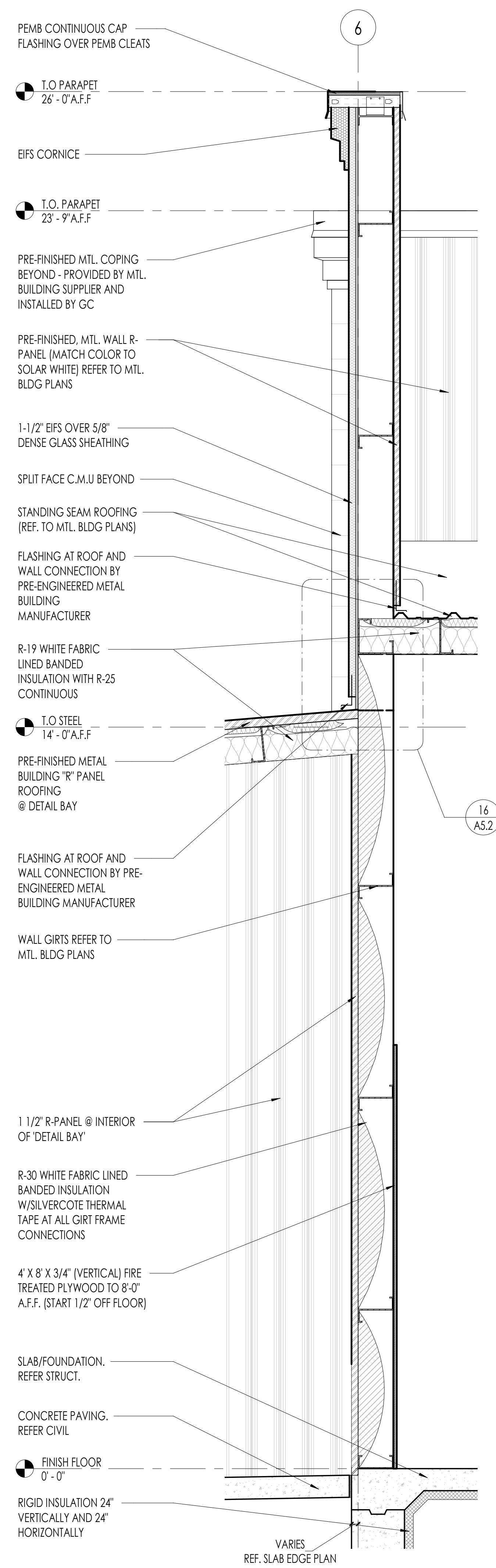
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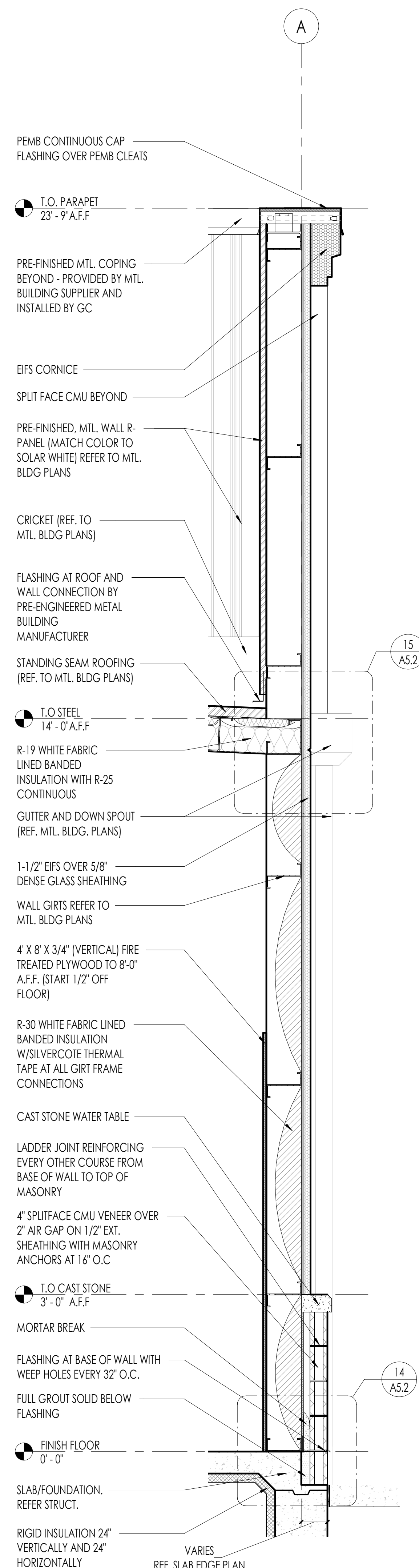
Exterior Wall Sections

Sheet Number:

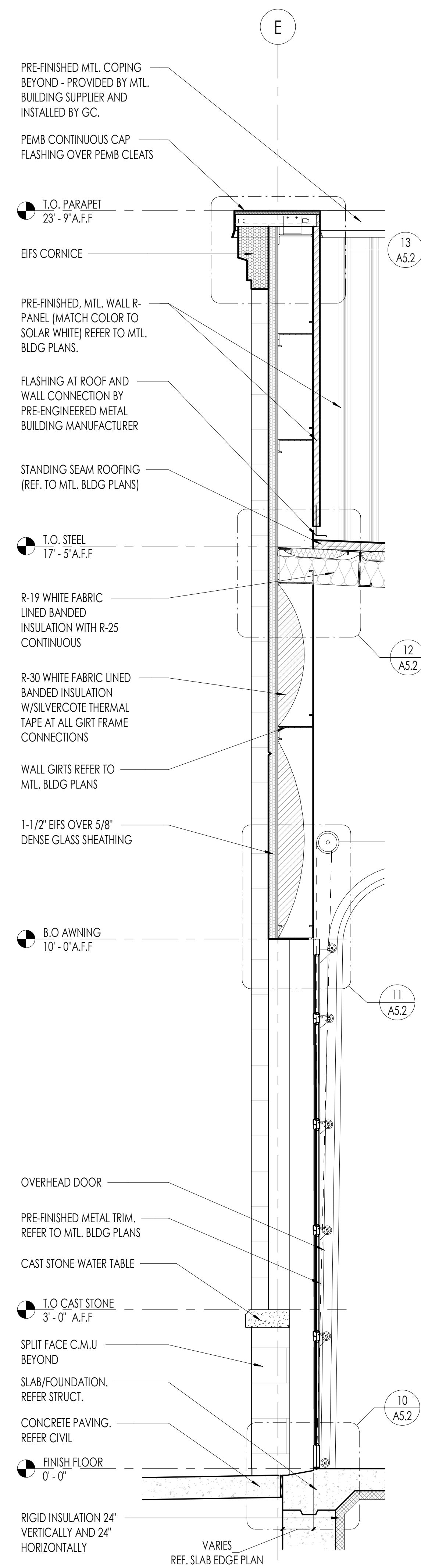
A3.2



03 WALL SECTION-END WALL
SCALE: 3/4" = 1'-0"



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



01 WALL SECTION @ OH DOOR
SCALE: 3/4" = 1'-0"



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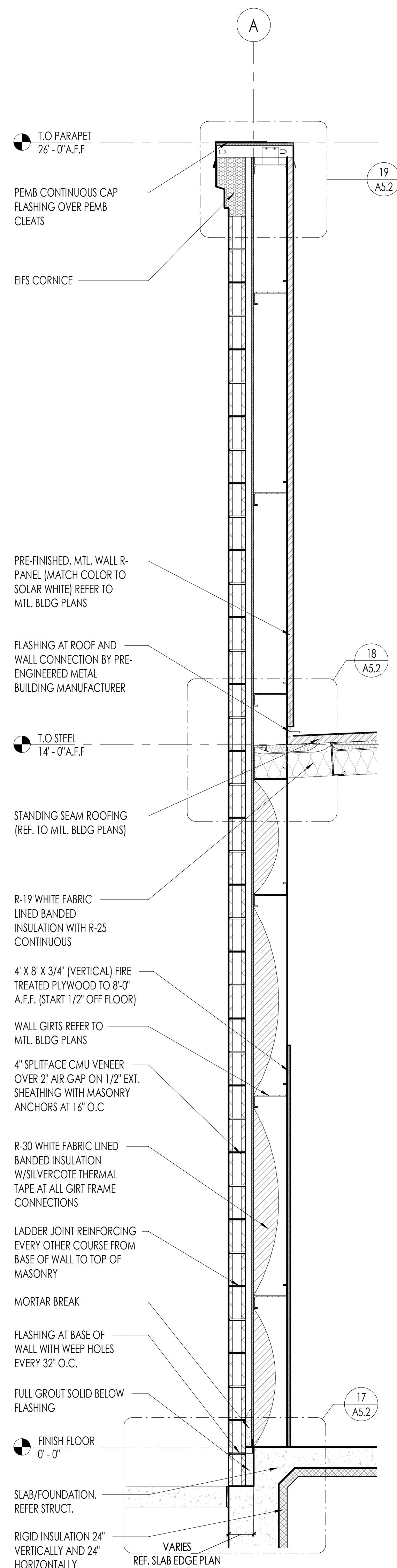
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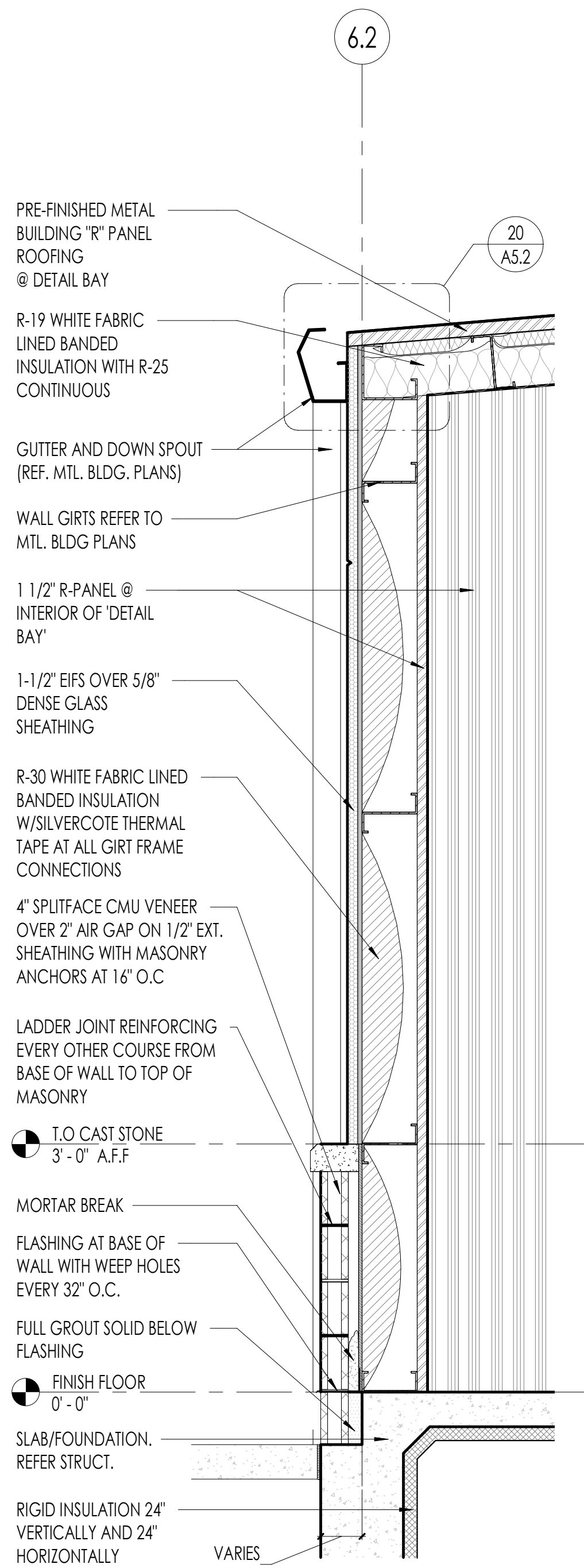
Exterior Wall Sections

Sheet Number:

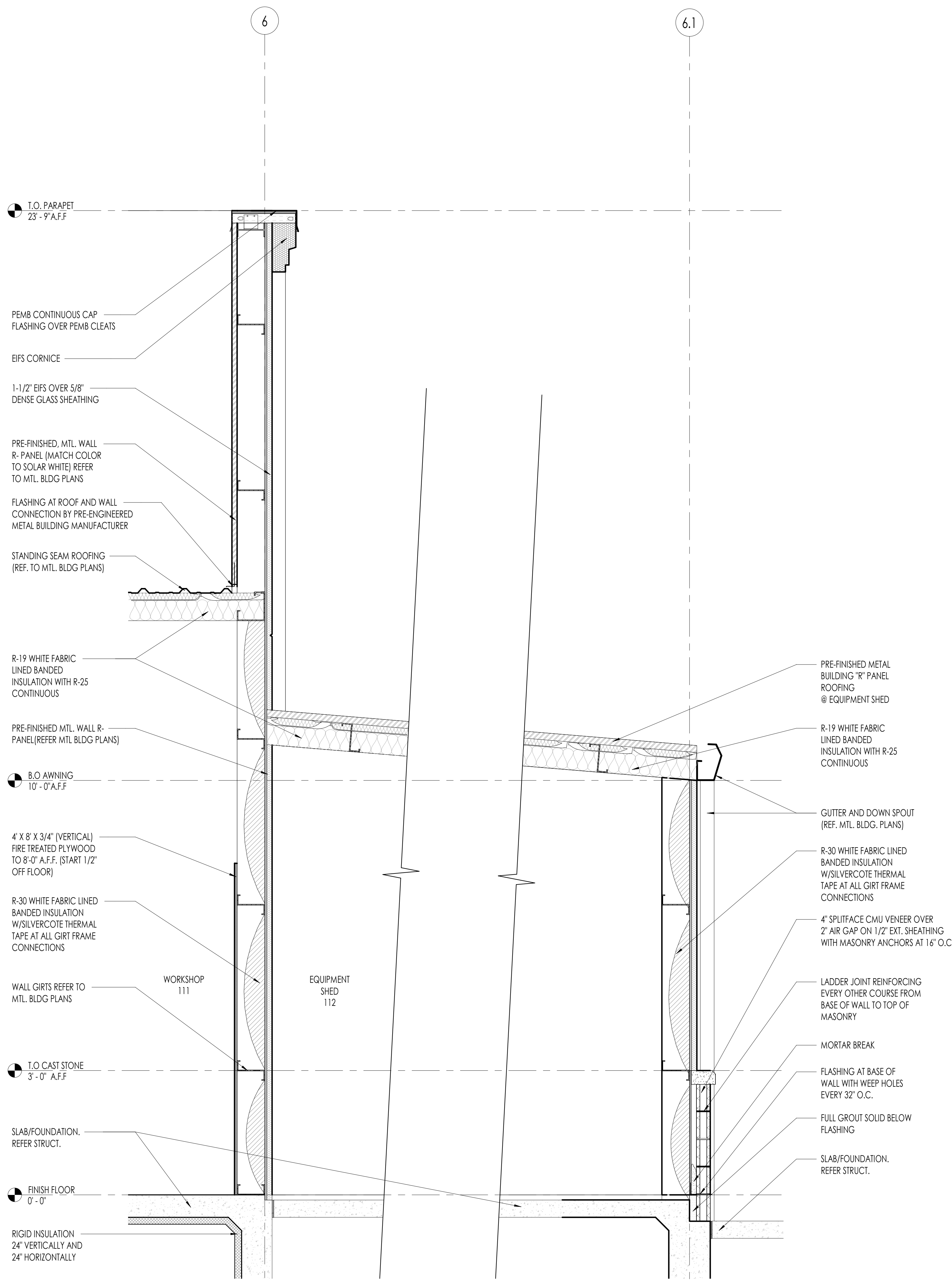
A3.3



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



02 WALL SECTION @ DETAIL BAY
SCALE: 3/4" = 1'-0"



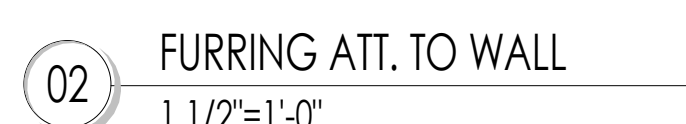
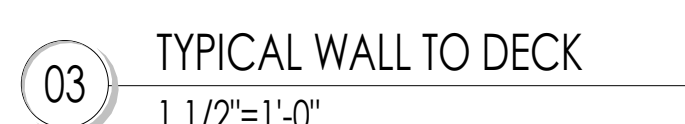
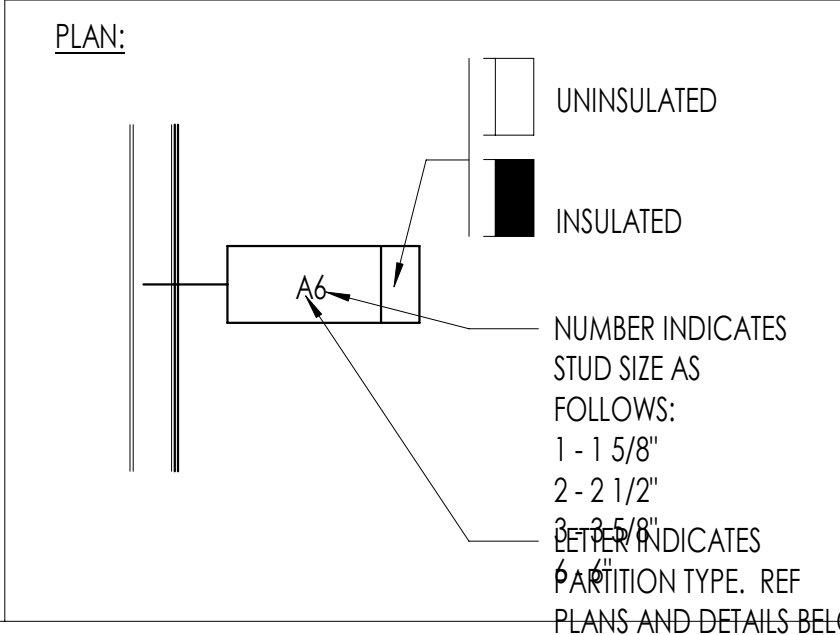
03 SECTION @ EQUIPMENT SHED
SCALE: 3/4" = 1'-0"

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1. STUDS CONTINUE T

-
- XX/AX.
X
- SHEET NUMBER
DETAIL NUMBER

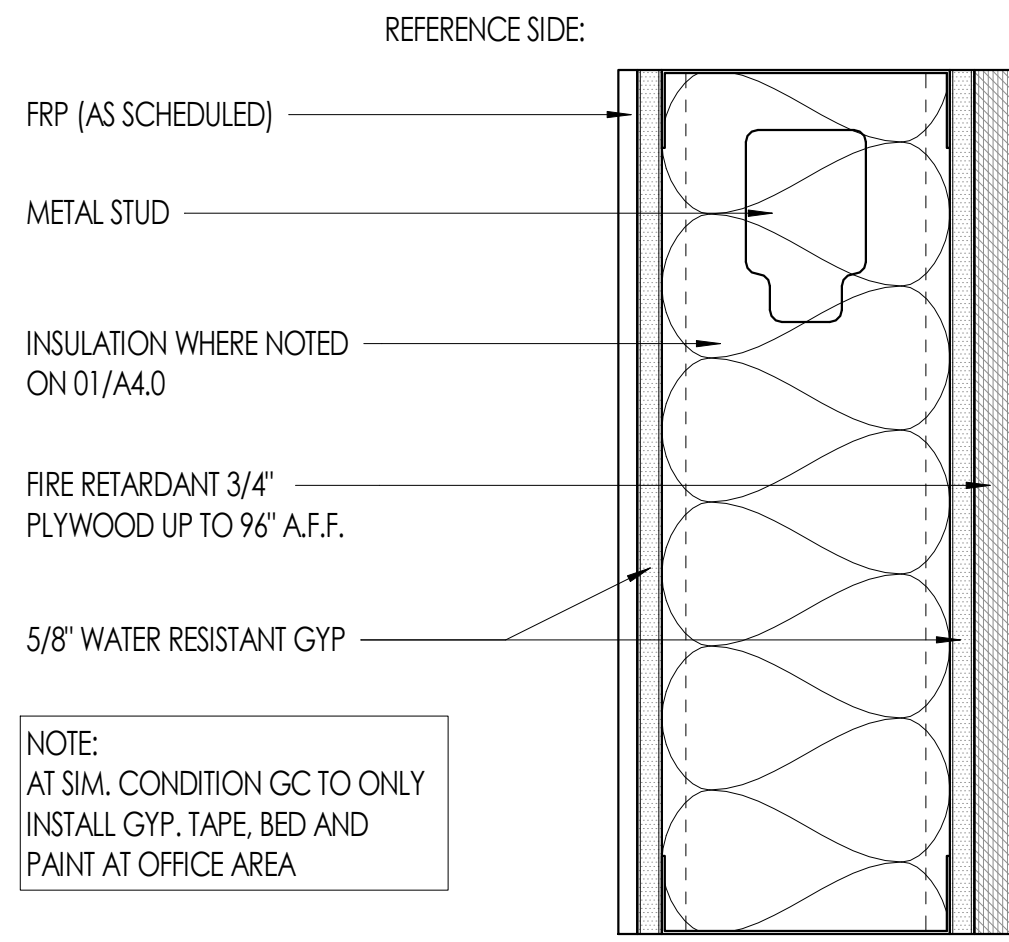


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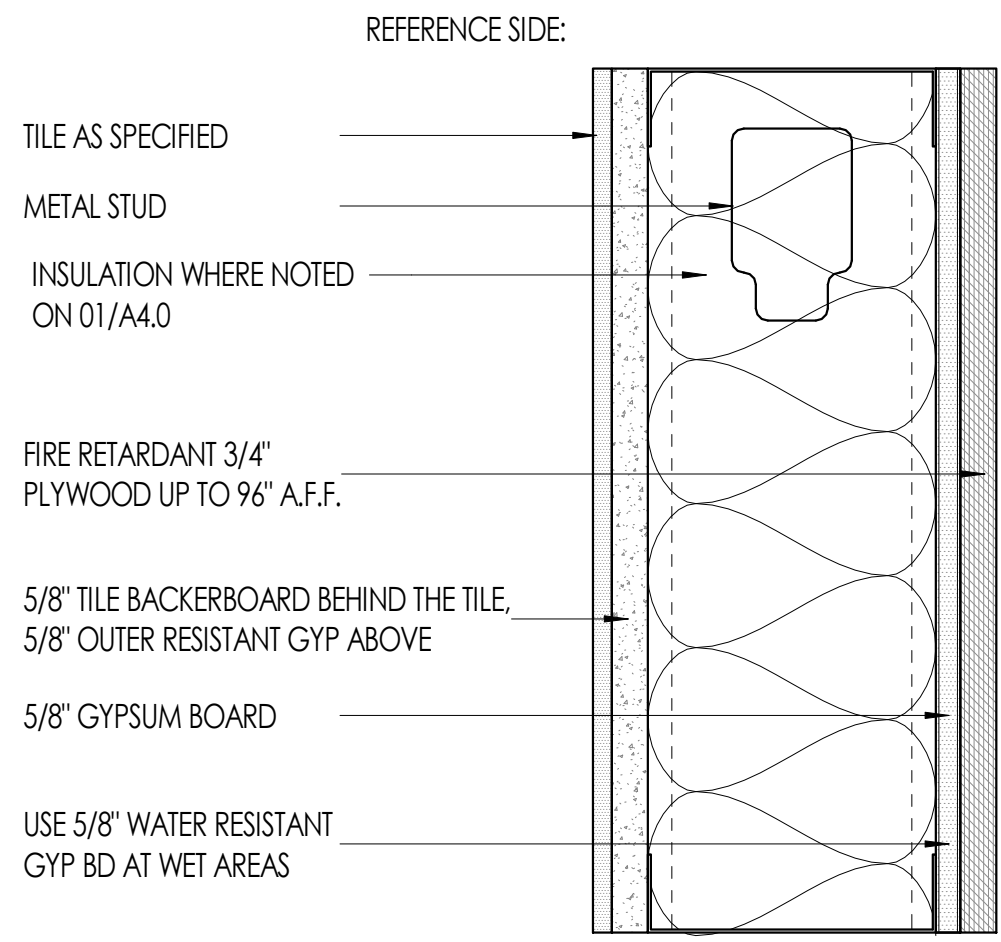
Interior Partition Details



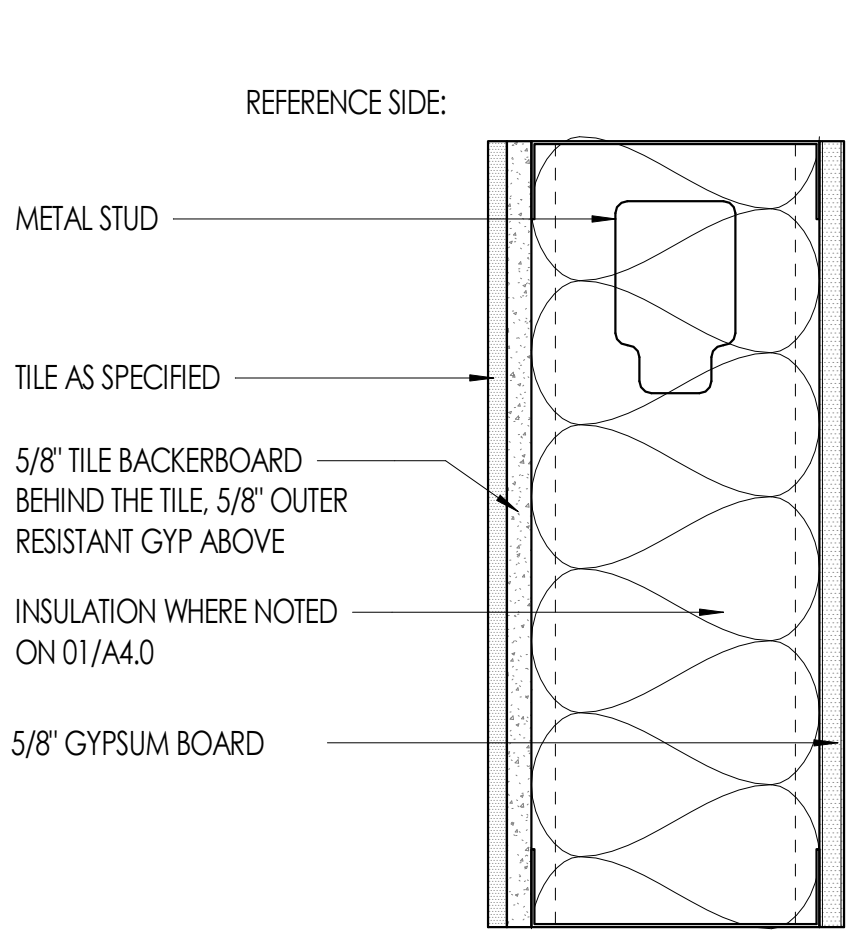
PARTITION TYPES



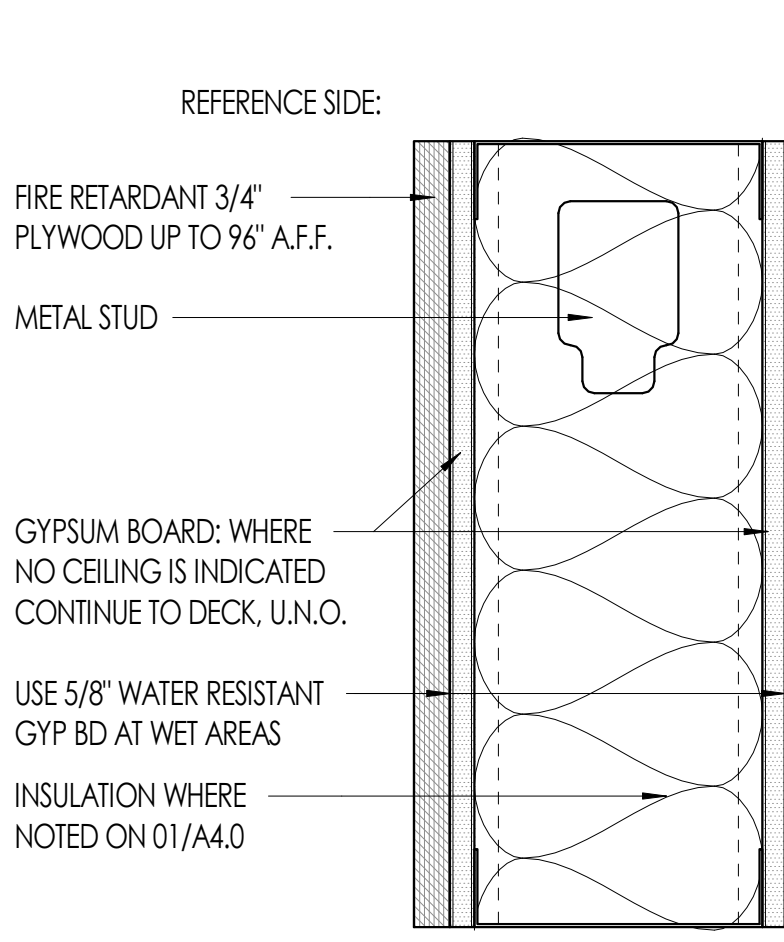
E PARTITION TYPE
3'=1'-0"



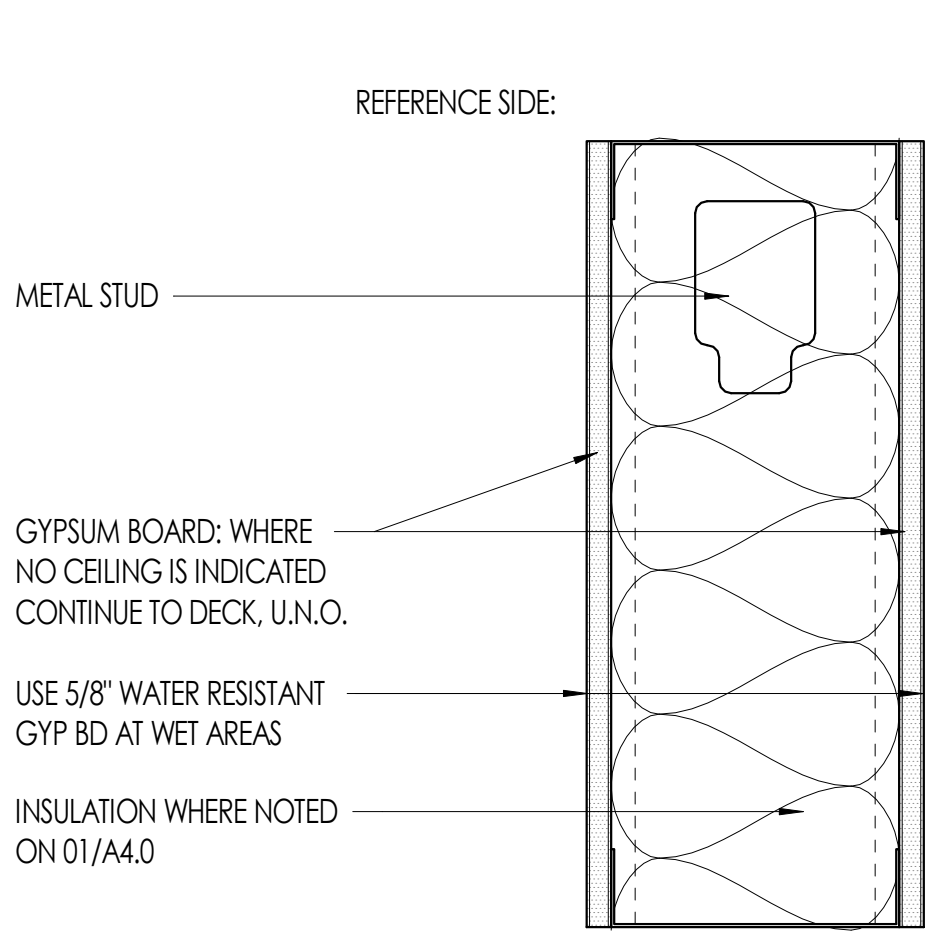
D PARTITION TYPE
3'=1'-0"



C PARTITION TYPE
3'=1'-0"



B PARTITION TYPE
3'=1'-0"



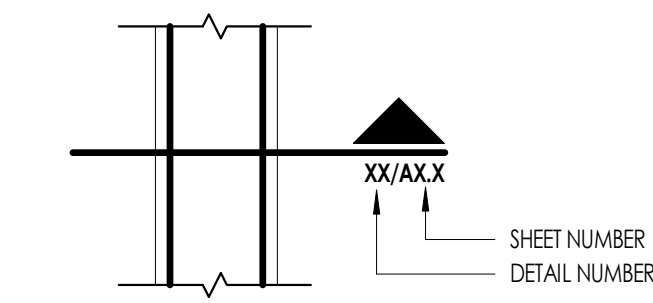
A PARTITION TYPE
3'=1'-0"

SHEET NOTES

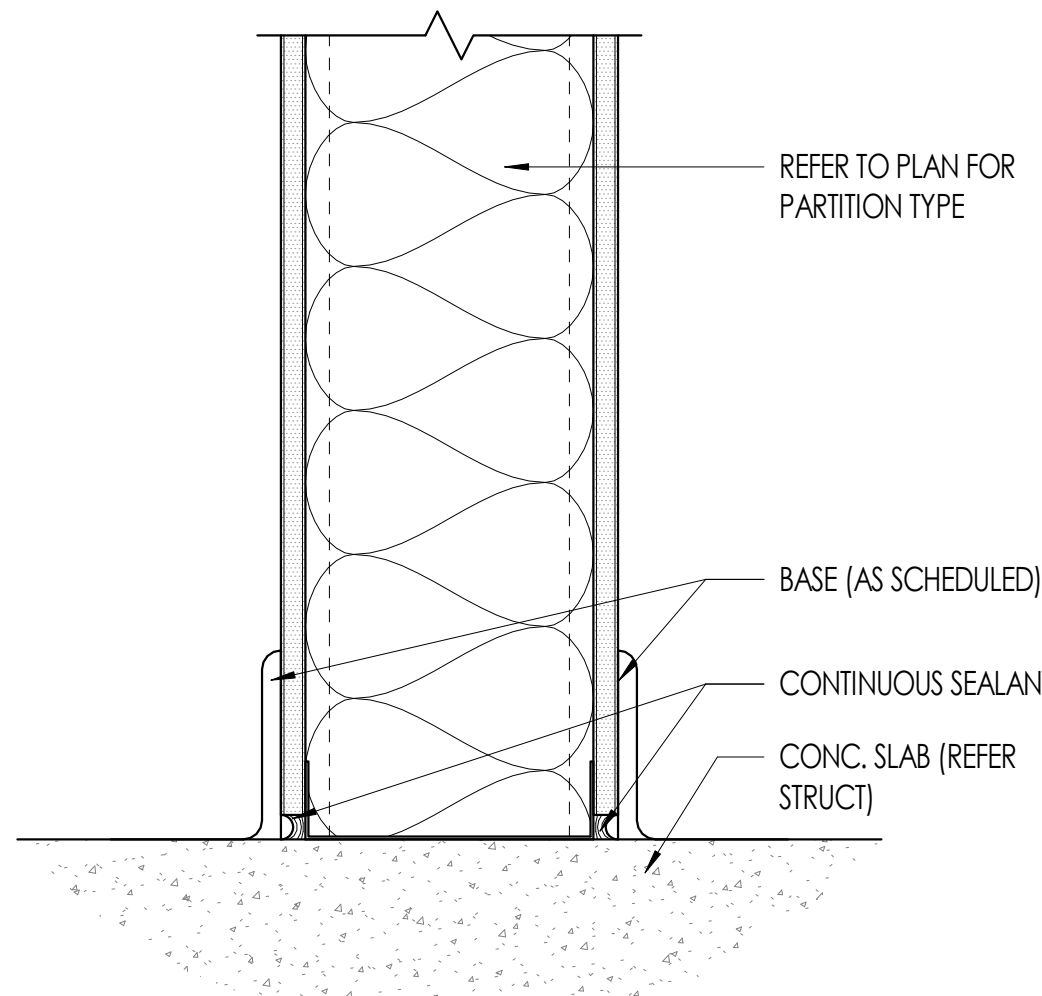
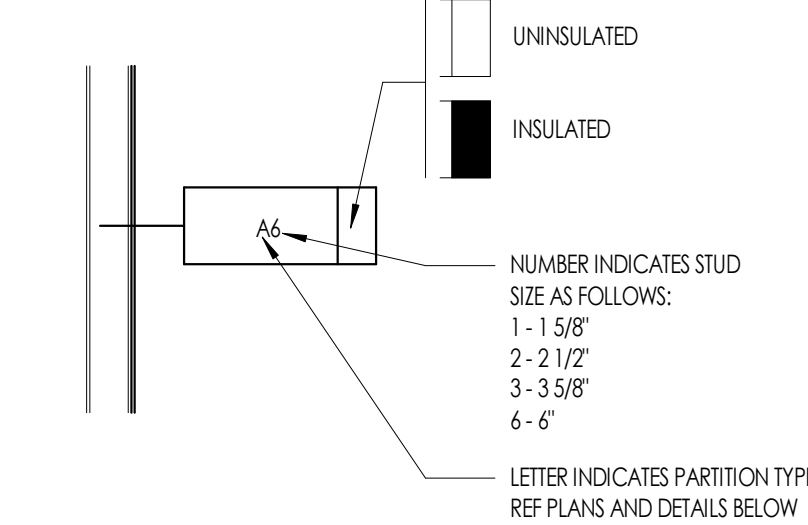
1. STUDS CONTINUE TO DECK U.N.O.
2. USE 5/8" GYPSUM BOARD ON NON-RATED PARTITIONS U.N.O.
3. USE 5/8" FIRE RATED GYPSUM BOARD ON FIRE RATED PARTITIONS.
4. REF ROOM FINISH SCHEDULE FOR LOCATION OF FRP.
5. EXTEND GYP. BD. A MINIMUM OF 6" ABOVE SUSPENDED CEILING SYSTEMS WHERE NOT INDICATED TO EXTEND TO DECK.
6. REF PARTITION KEY SYMBOL FOR STUD THICKNESS.
7. WHERE NO CEILING IS INDICATED CONTINUE GYP BD & FINISH TO DECK UNO.
8. STUD PARTITIONS REQUIRING A FIRE RATING OF ONE HOUR SHALL COMPLY WITH UL1445; TWO HOUR WITH UL1441.
9. STUD WALLS RECEIVING FIRE RETARDANT PLYWOOD SHALL BE 22 GAUGE OR HEAVIER.
10. PROVIDE ALTERNATING DIAGONAL METAL STUD BRACING FROM ROOF DECK TO WALL STUDS ABOVE CEILING AT 48" O.C. FOR PARTITION STUDS UNDER 6" WIDE.
11. USE MOISTURE RESISTANT TILE BACKER BOARD BEHIND ALL CERAMIC TILE AND FRP BOARD. RESTROOMS REQUIRE MOISTURE RESISTANT GYP. BOARD ABOVE TILE WANSICOT. REF TOILET TILE ELEVATION SHEET A2.1
12. PROVIDE BATT INSULATION AT ALL RESTROOM PARTITIONS AND OTHER LOCATIONS WHERE INDICATED ON PLANS.
13. PROVIDE CONTROL JOINTS (REF DETAIL THIS SHEET) FULL HEIGHT OF MTL STUD PARTITIONS @ 30'-0" O.C. MAX. PROVIDE JOINT AT LATCH SIDE OF JAMB AT SINGLE DOORS AND BOTH JAMBS AT DOUBLE DOORS AND WINDOWS. REF SPEC.
14. BRACE ALL STUD PARTITIONS WHICH DO NOT EXTEND TO ROOF STRUCTURE OR ROOF DECK. REF DETAIL THIS SHEET.

PARTITION ANNOTATION

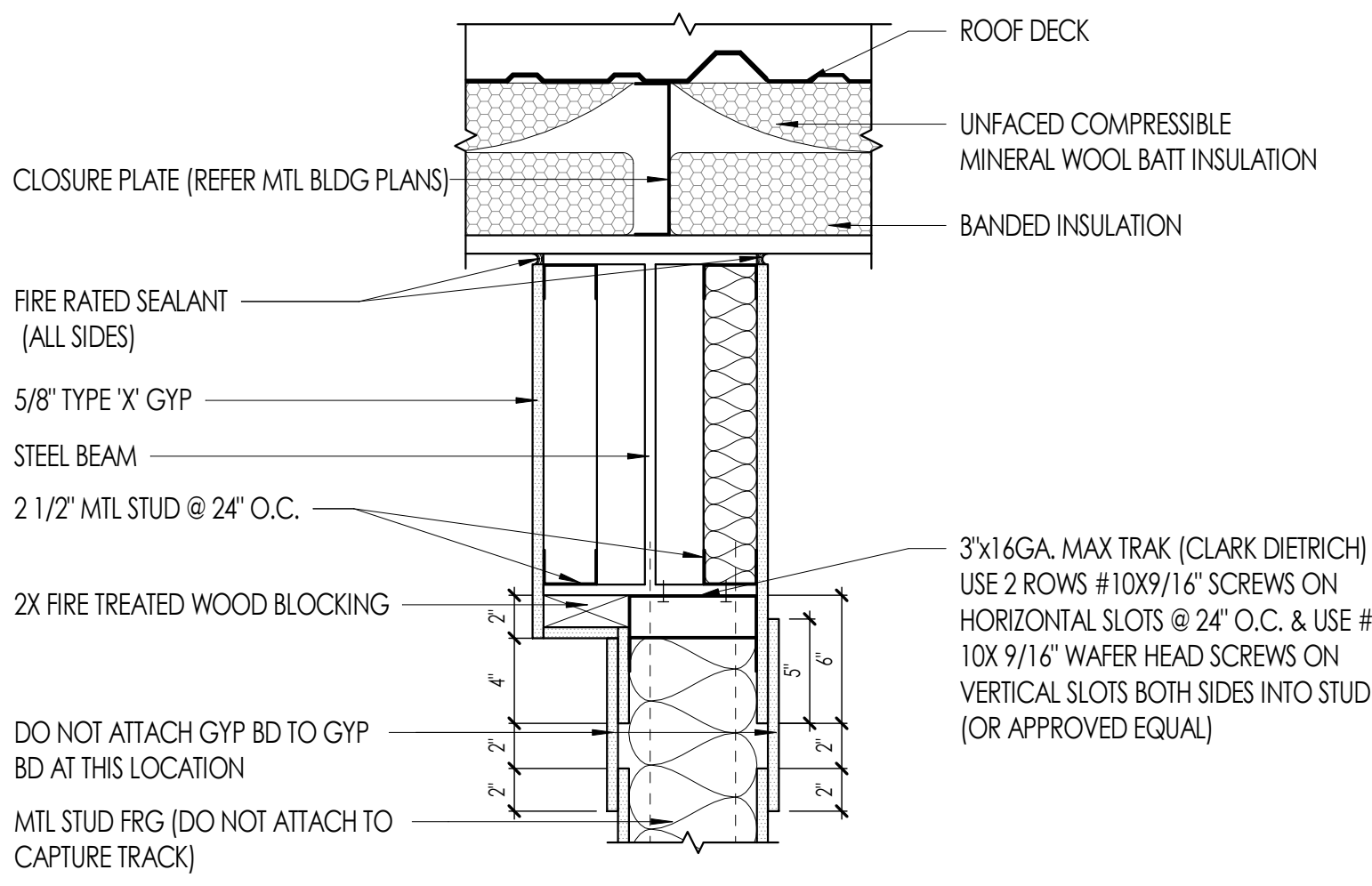
DETAIL:



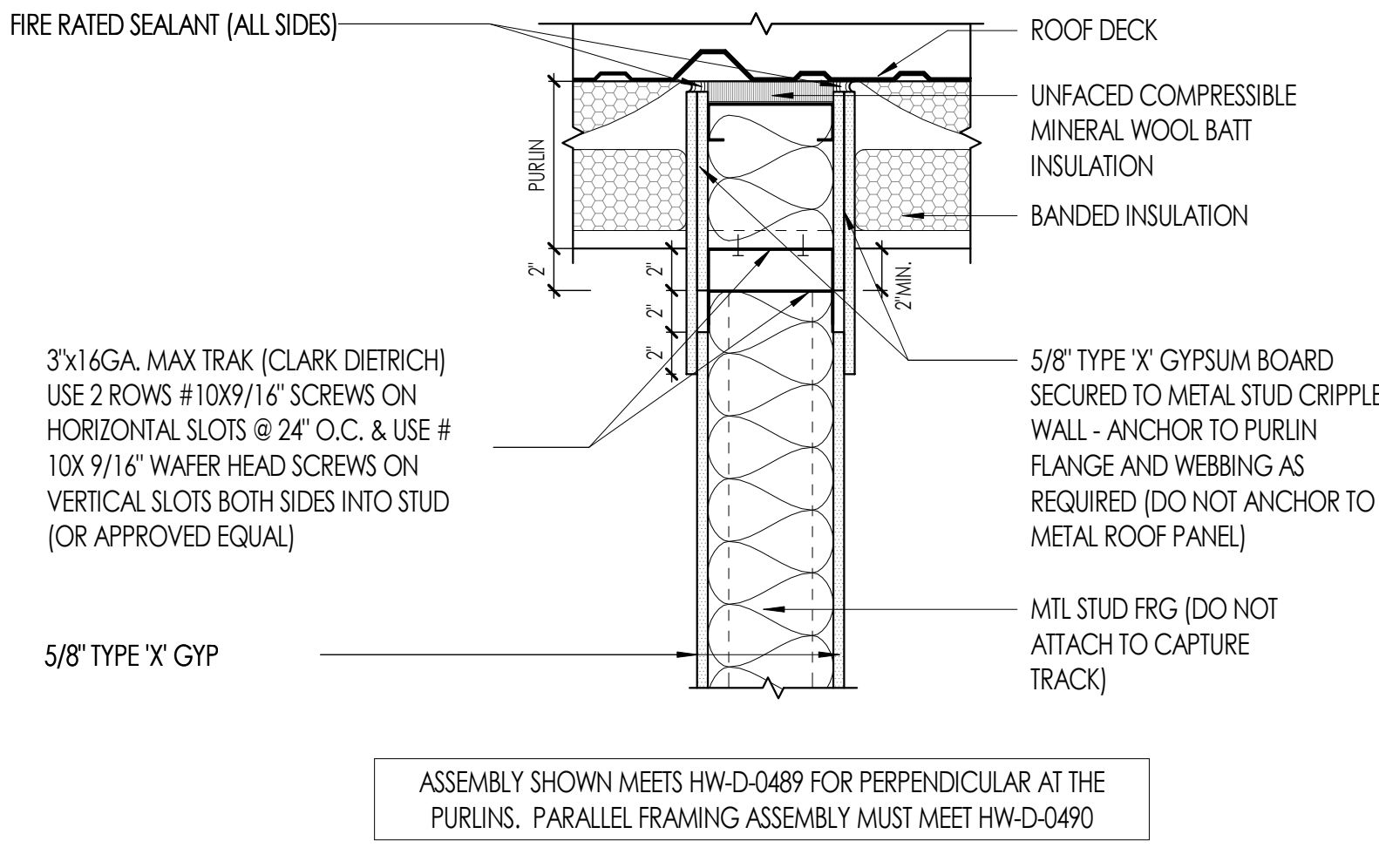
PLAN:



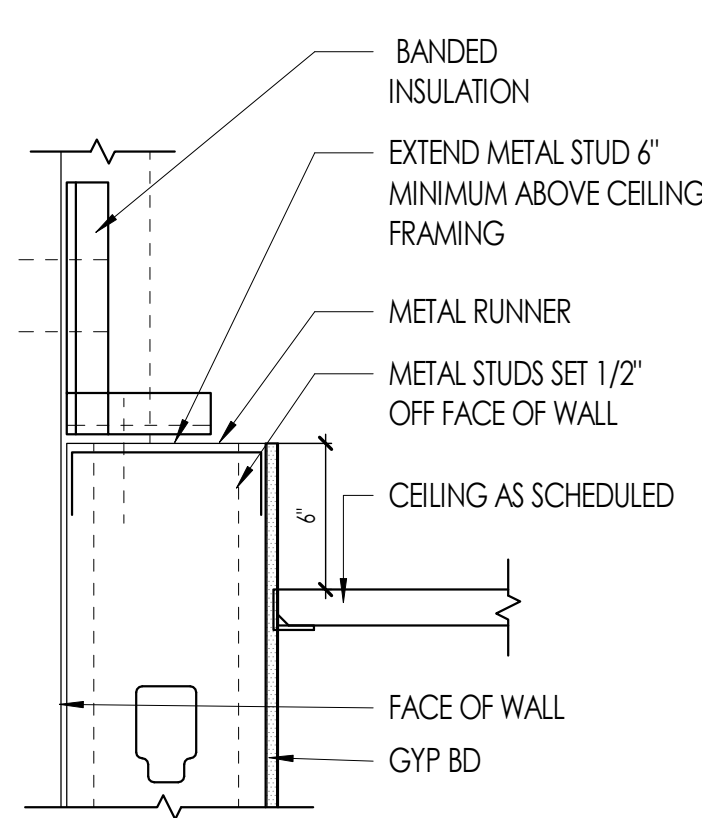
05 TYPICAL INTERIOR WALL BASE
3'=1'-0"



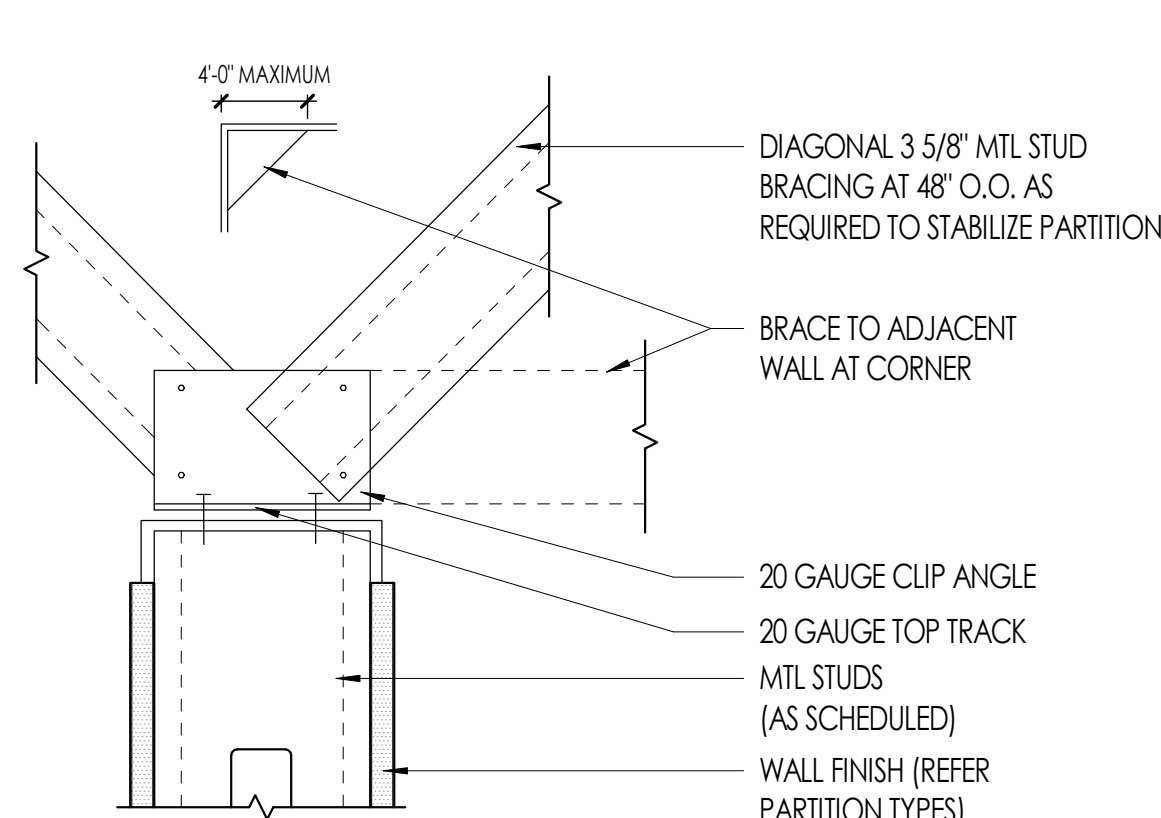
04 TYPICAL WALL TO BEAM
1 1/2'=1'-0"



03 TYPICAL WALL TO DECK
1 1/2'=1'-0"



02 FURRING ATT. TO WALL
1 1/2'=1'-0"



01 PARTITION BRACING
1 1/2'=1'-0"

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Issue Date: 12.10.2021

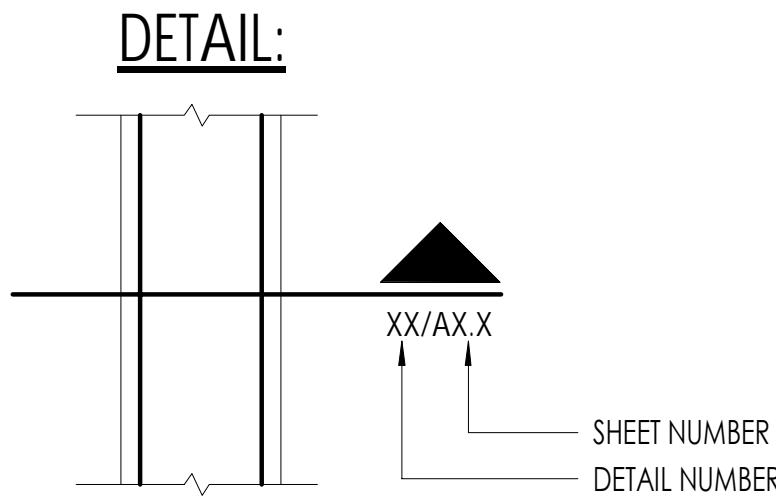
Revisions:
Revisions:
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Revisions:
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Revisions:

Interior Partition Details

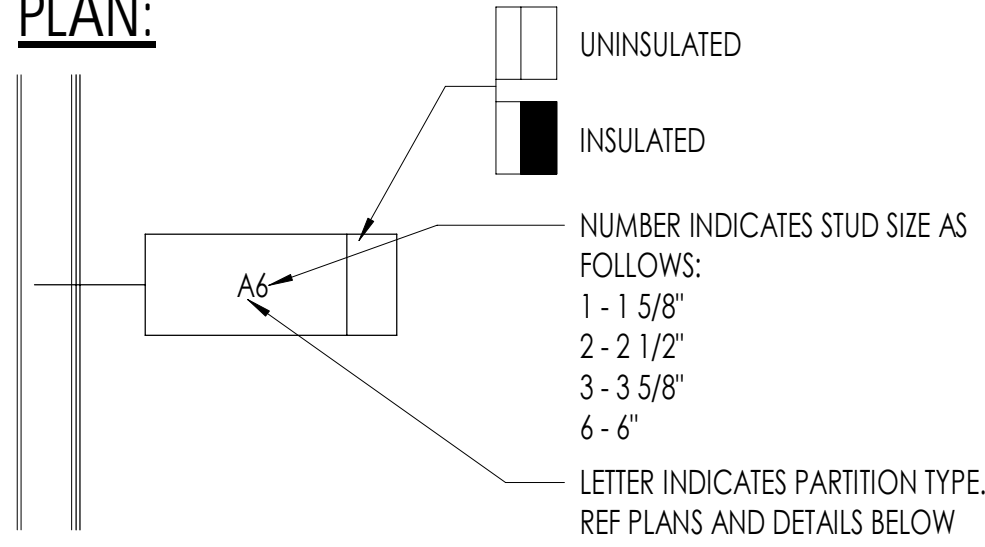
Sheet Number:

A3.4

PARTITION ANNOTATION:



PLAN:



KEYNOTES :

- 618 START FULL TILE CENTERED IN ROOM
619 EXHAUST FAN REF. MEP
620 OPEN TO ROOF STRUCTURE ABOVE, NO PAINT
621 LIGHT @8'-0" A.F.F.
622 FAN/HEATER REF. MEP
623 CONDUIT UP AND OVER WALL TO RISER ROOM

CEILING PLAN

KEYNOTES:

- 601 WALL MOUNTED WASH/ MOP SINK
602 WATER HEATER (REFER MEP)
603 EMERGENCY EYE WASH SINK
604 HIGH/ LOW DRINKING FOUNTAIN (REFER MEP)
605 FLOOR DRAIN (REFER MEP)
606 WALL SHELVING 06/A4.2
607 KNEE WALL WITH GRANITE CAP REF.
608 PROVIDE BLKG. @80" AND 92" FOR TV BRACKET ABV. COFFEE BAR.
609 RECEPTION MILLWORK, REFER TO SHEET A4.3
610 UPPER AND LOWER CABINETS W/ SINK, REFER TO SHEET A4.2
611 COFFEE BAR, REFER TO SHEET A4.3
612 REF. MILLWORK TO 03/A4.2
613 KNOX BOX VERIFY WITH FIRE MARSHAL
614 TELEPHONE BOARD LOCATION
615 FLOOR SINK (REFER MEP)
616 FIRE RISER PER PLUMBING PLANS
617 F.D.C. PER PLUMBING PLANS

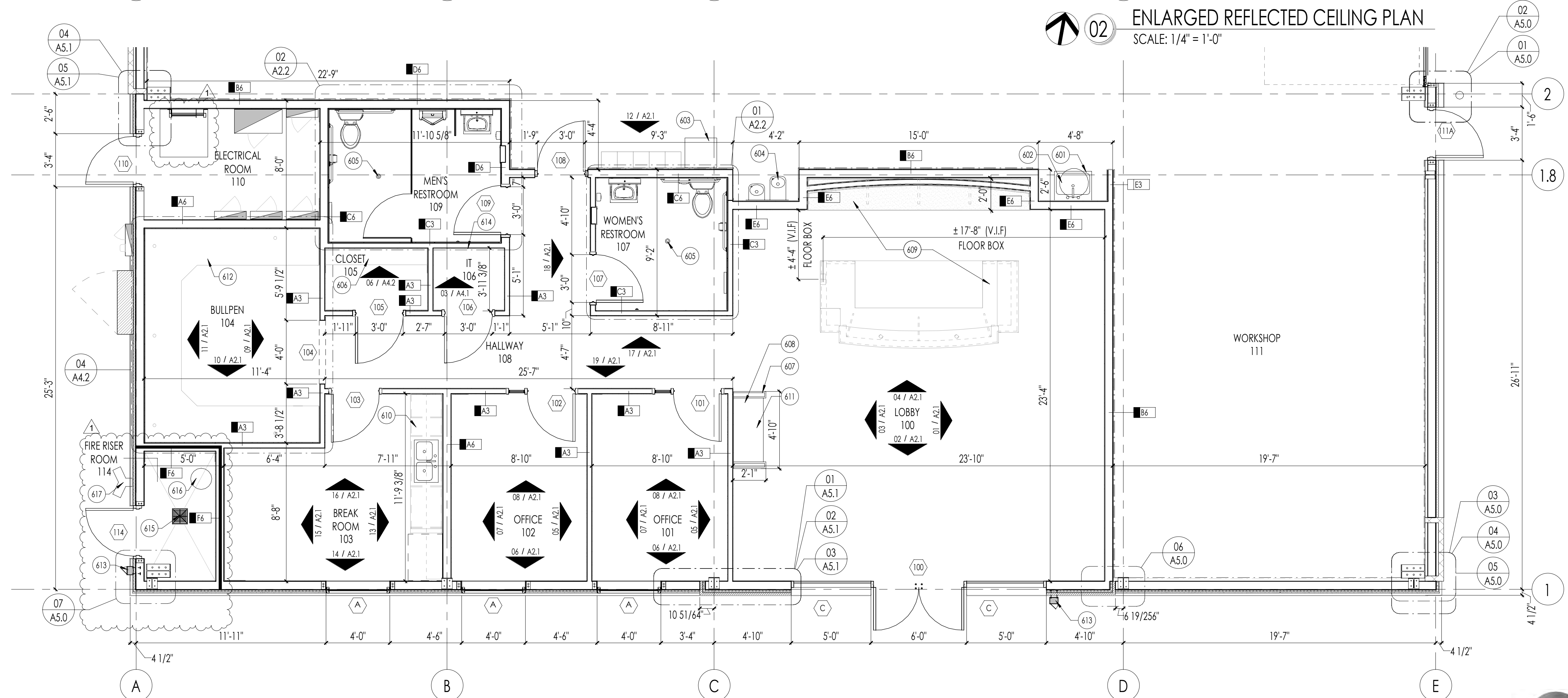
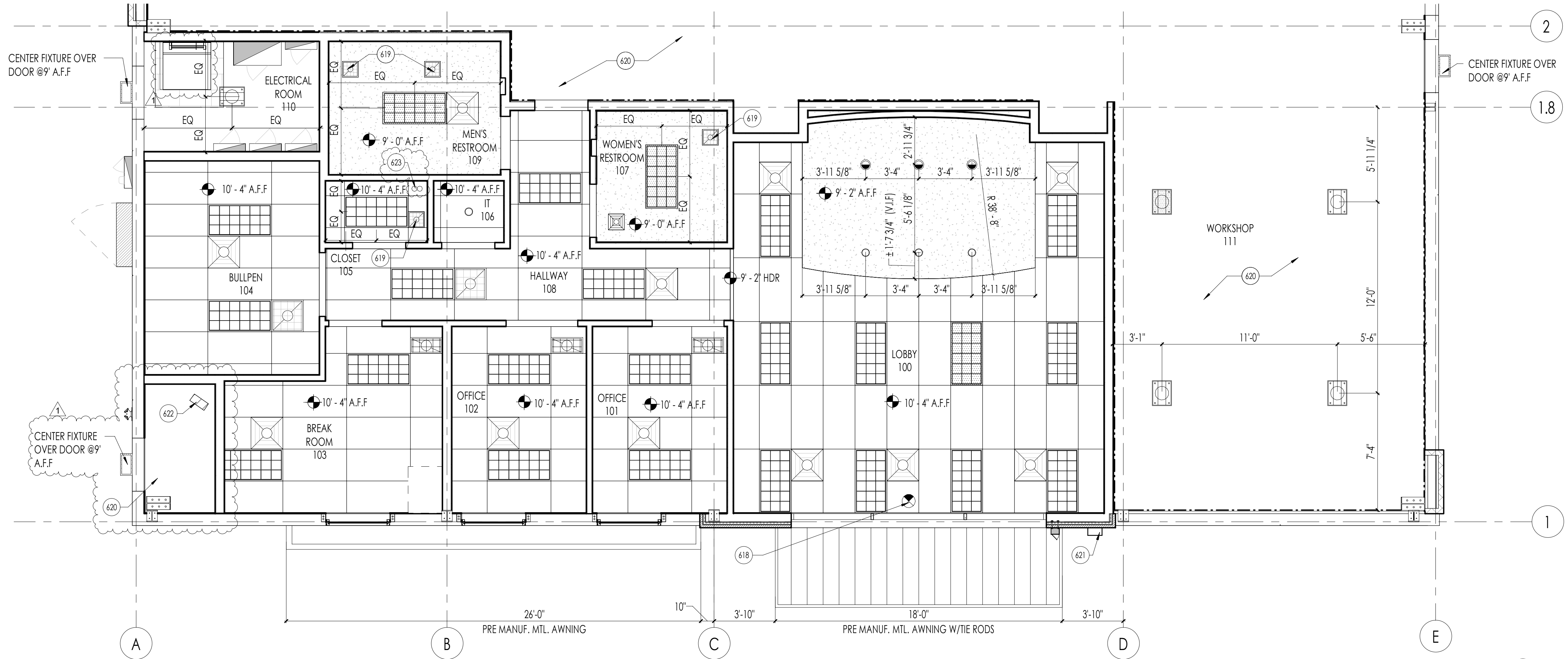
FLOOR PLAN

LEGEND

- 2X4' TROFFER FIXTURE
- 2X4' TROFFER FIXTURE (EMERGENCY)
- SHOP LIGHT (REF. ELECTRICAL)
- SHOP LIGHT (EMERGENCY) (REF. ELECTRICAL)
- RECESSED LIGHT FIXTURE
- RECESSED WALL WASHER
- EXIT LIGHT/DIRECTIONAL EXIT LIGHT
- SUSPENDED ACOUSTICAL TILE
- MECHANICAL VENTS (REF. MEP)
- GYPSUM BOARD CEILING
- WALL SCONCE

GENERAL NOTES

- FLOOR PLAN
- ALL DIMENSIONS ARE TAKEN FROM FACE OF STUD UNLESS NOTED OTHERWISE.
 - ALL DOORS UNLESS OTHERWISE NOTED TO BE LOCATED 4" OFF THE ADJACENT WALL AT HINGE SIDE.
 - ALARM SYSTEM TO BE DESIGNED BY LICENSED FIRE PROTECTION CONTRACTOR. INSTALL LATERAL LINES TIGHT AGAINST THE BOTTOM OF STRUCTURE.
 - GC TO INSTALL FIRE EXTINGUISHERS PER THE FIRE MARSHAL RECOMMENDATIONS AND LOCATIONS.
 - FLOOR DRAINS ARE TO BE FLUSH WITH THE FINISHED FLOOR.
 - REFER TO SHEET A6.1 FOR DOOR SCHEDULES
- CEILING PLAN
- ALL DIMENSIONS SHOWN FOR LIGHT FIXTURE LOCATION IS TAKE FROM FACE OF STUD UNLESS NOTED OTHER WISE.
 - LIGHT TO BE CENTERED IN ROOM UNLESS NOTED OTHERWISE.



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Issue Date: 12.10.2021
Revisions: 01.07.2022
Revisions:
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Revisions:
Revisions:

Enlarged Plan

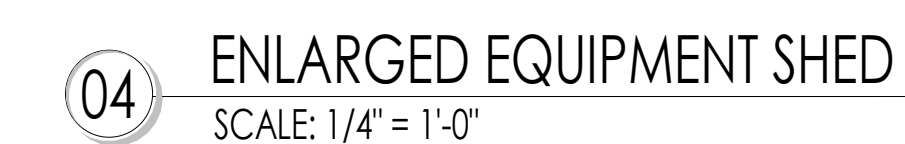
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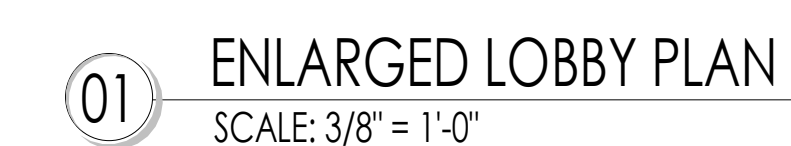
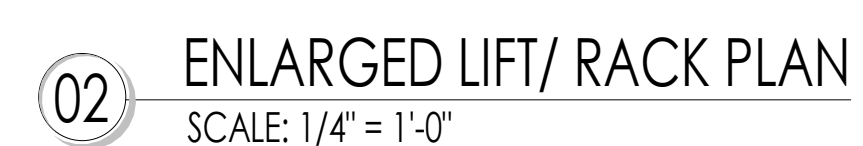
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03 TELEPHONE BACKBOARD DETAIL
SCALE: 1 1/2" = 1'-0"



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[illegible]

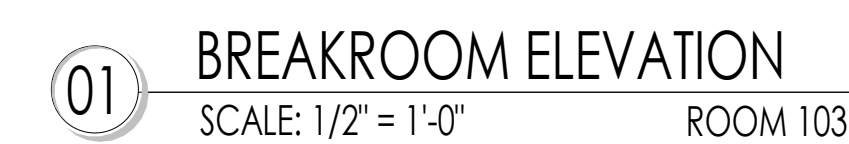
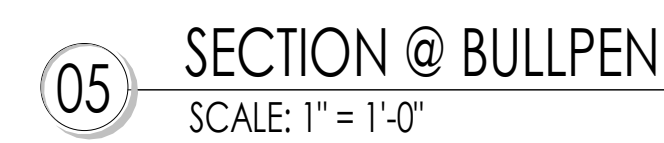
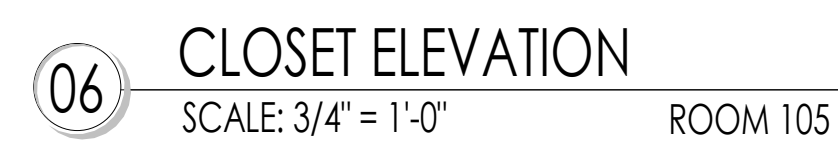
Sheet Number: A4.1



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FINISH KEY	DESCRIPTION	LOCATION	MANUFACTURER	PRODUCT COLOR	IDENTIFICATION / FINISH	CONTACT
PL1	MILLWORK & INT. DOORS (MILLWORK & DOOR FACES)		WILSONART	STUDIO TEAK (RUN GRAIN VERTICAL)	7960K-18	N/A
PL2	MILLWORK & INT. DOORS (MILLWORK WORK SURFACE)		WILSONART	BLACK	95-60	N/A

OPI.04 BREAKROOM REFRIGERATOR



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[illegible]

Sheet Number: A4.2





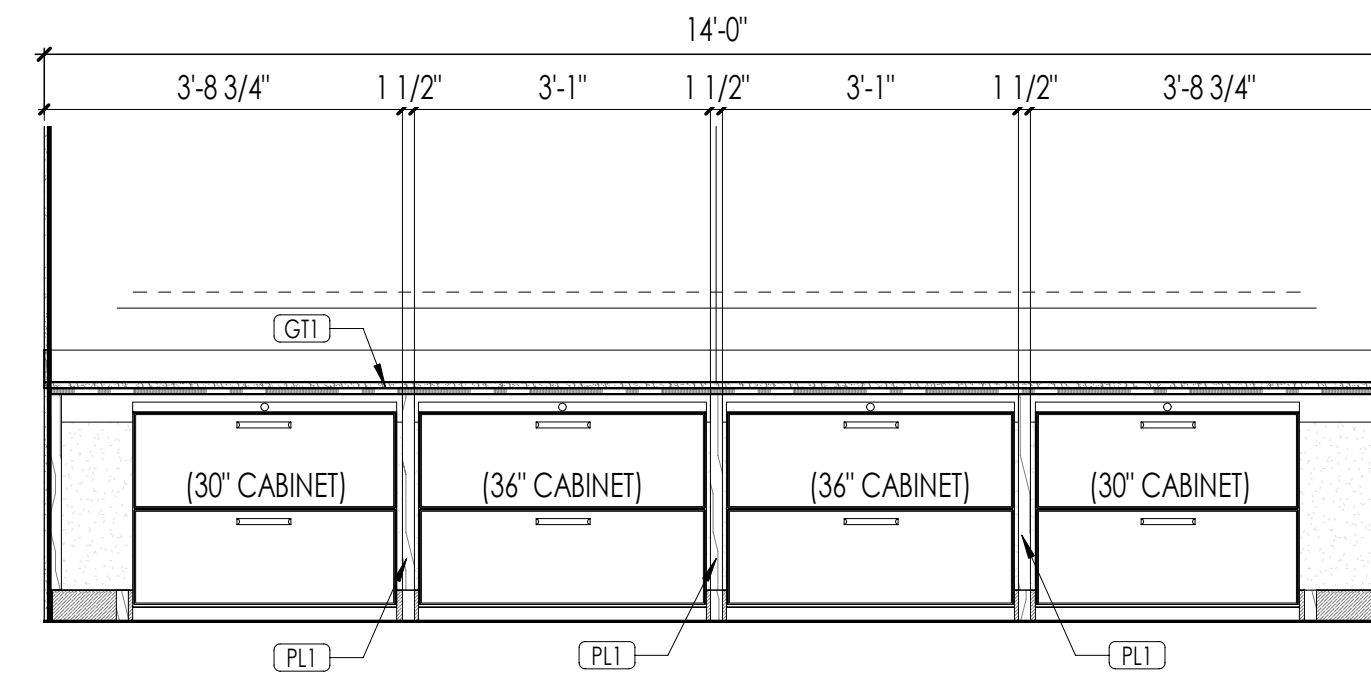
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ARCHITECTURE

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Architecture
Planning
Interior Architecture

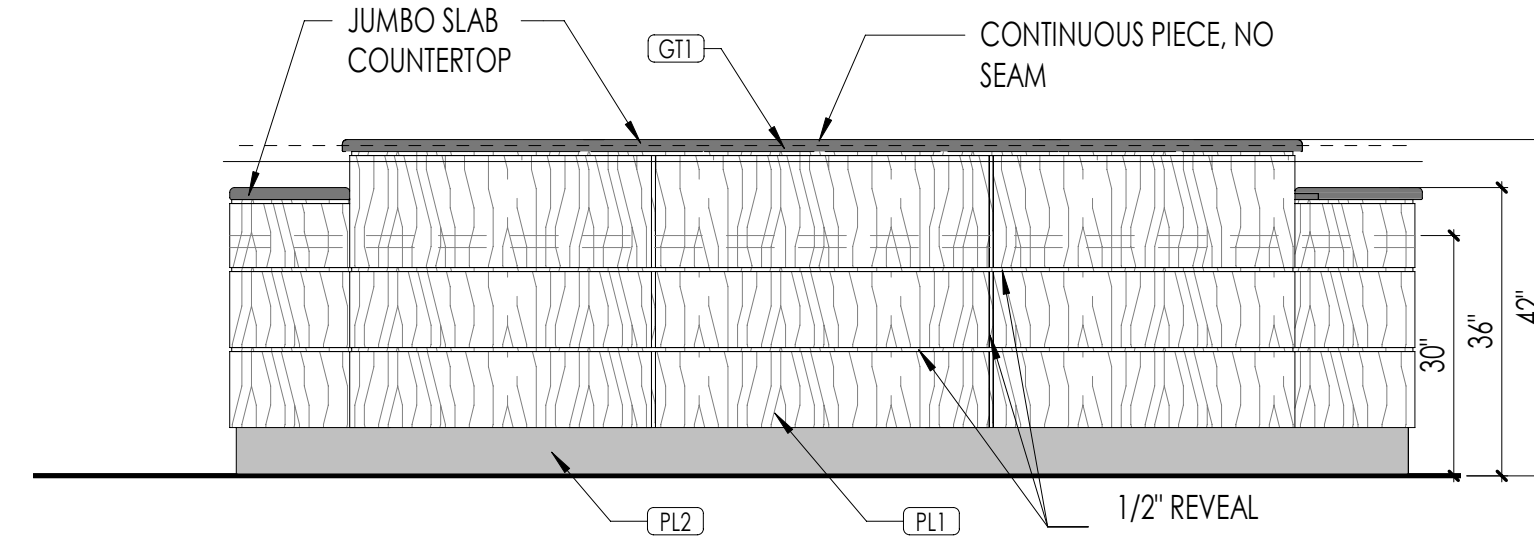


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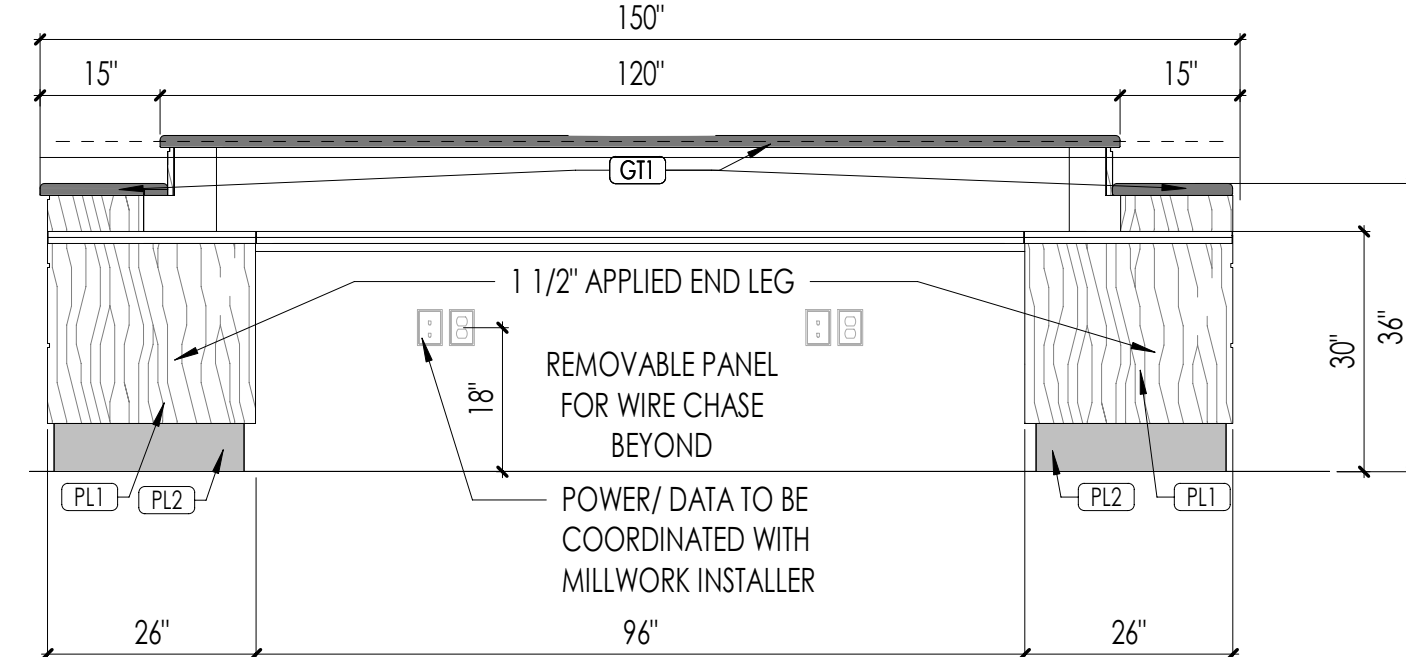
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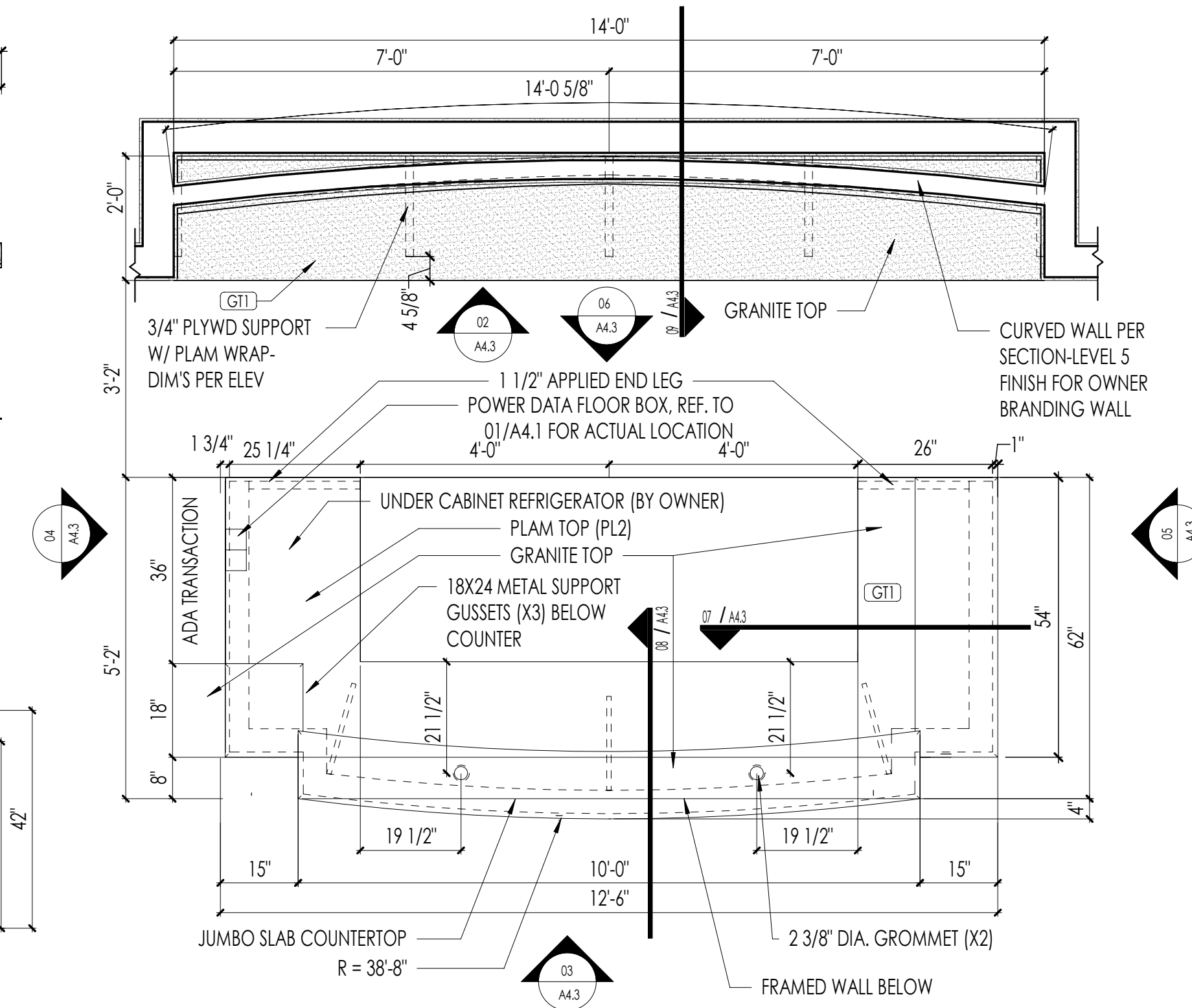
02 RECEPTION DESK BACK WALL
SCALE: 1/2" = 1'-0"



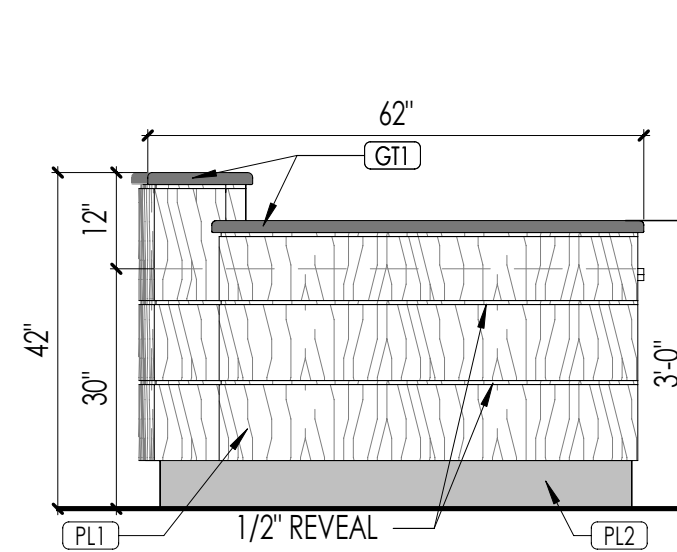
03 RECEPTION DESK FRONT ELEVATION
SCALE: 1/2" = 1'-0"



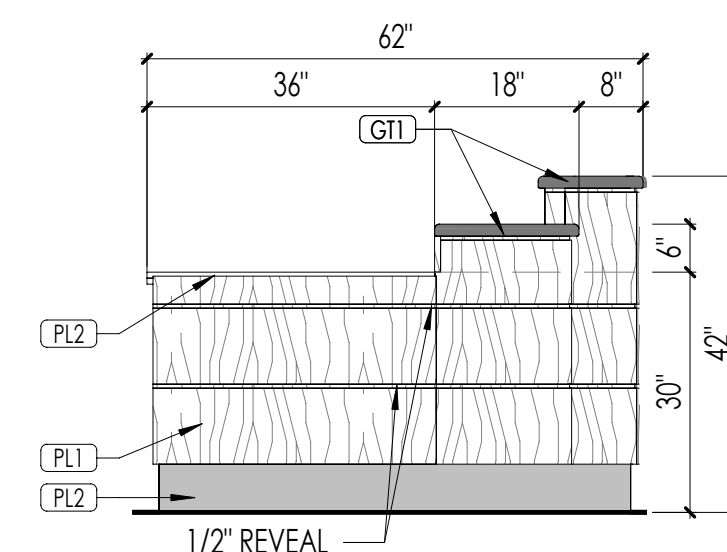
06 RECEPTION DESK BACK ELEVATION
SCALE: 1/2" = 1'-0"



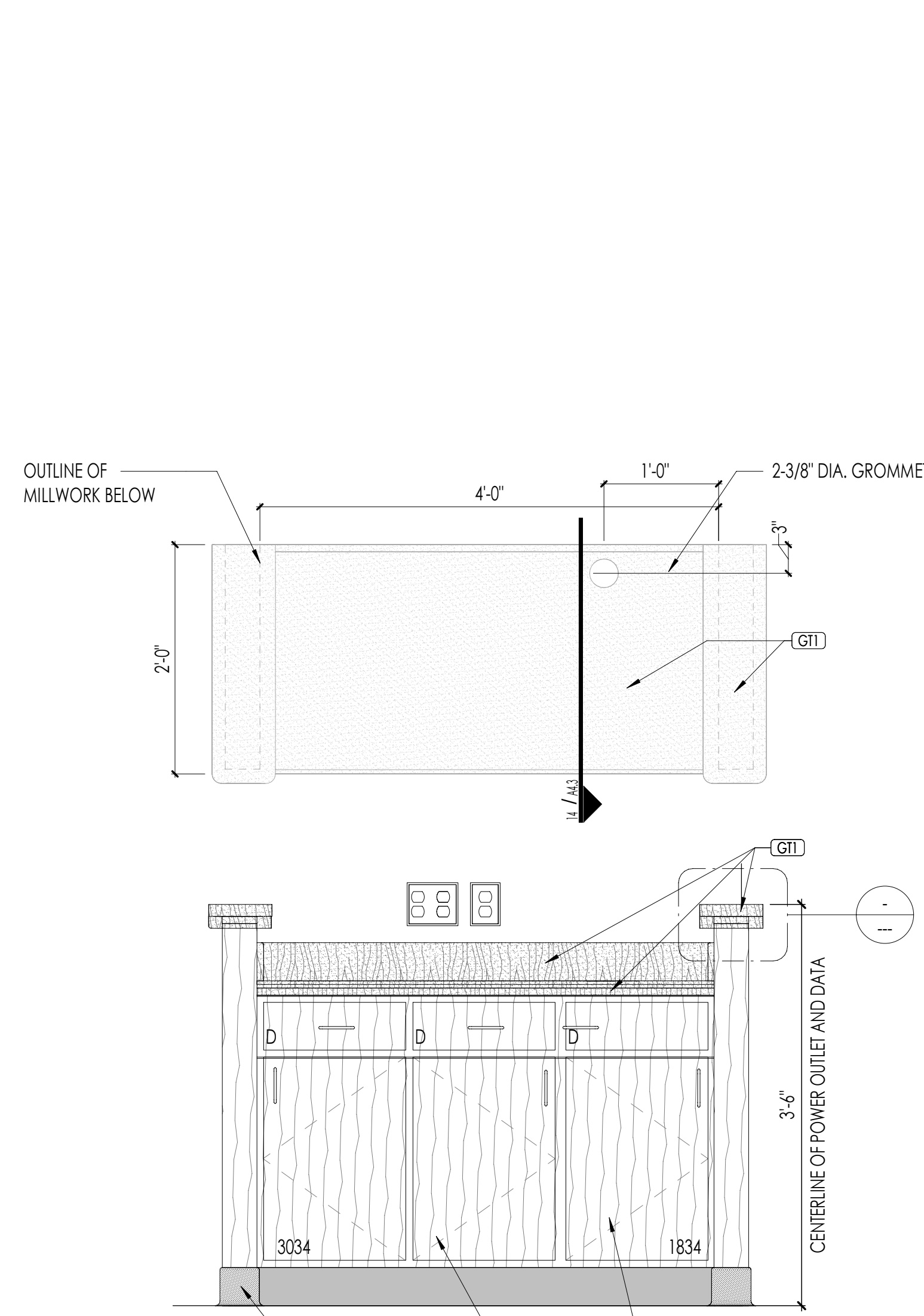
01 RECEPTION DESK PLAN
SCALE: 1/2" = 1'-0"



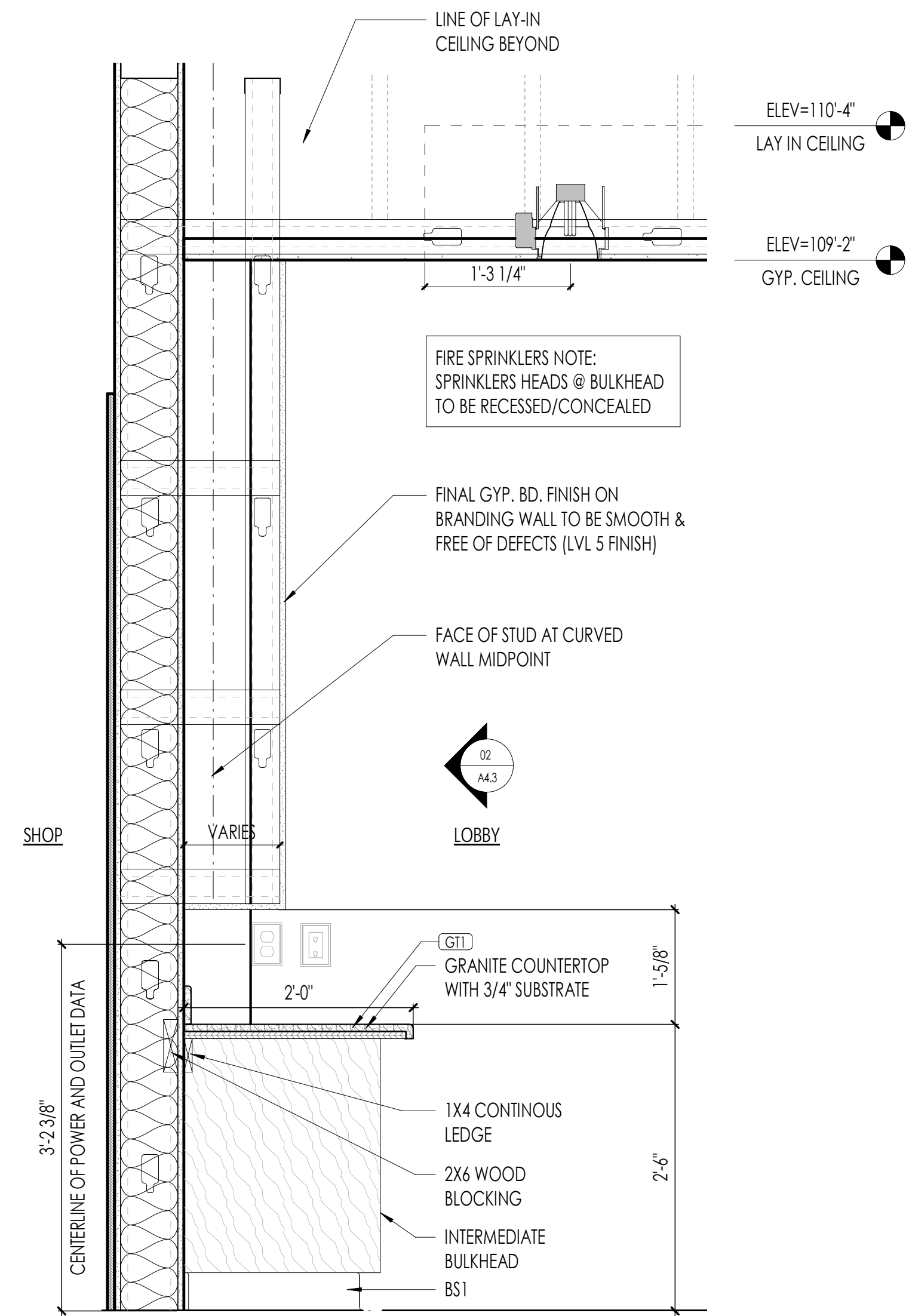
05 RECEPTION DESK LEFT
SCALE: 1/2" = 1'-0"



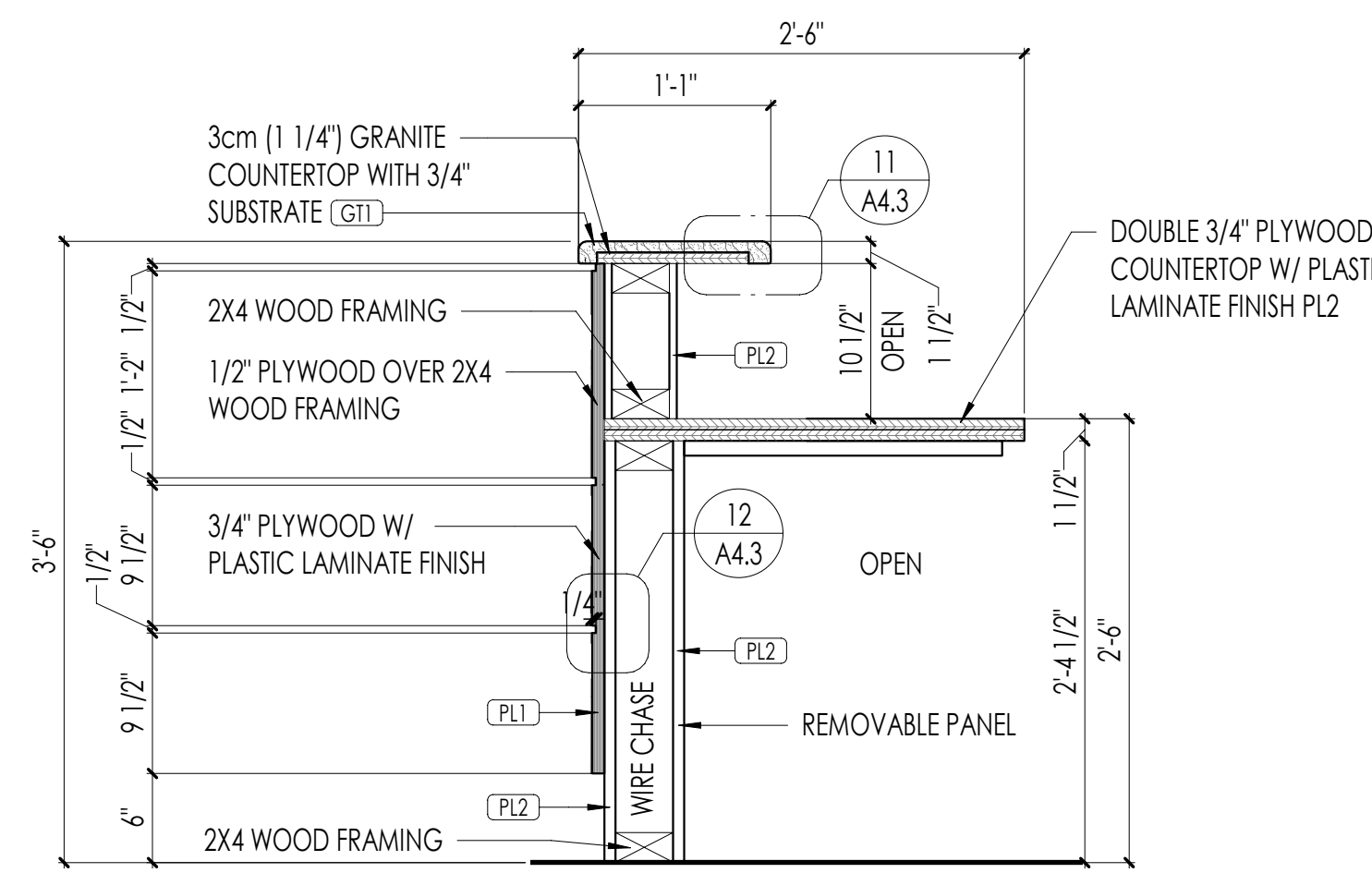
04 RECEPTION DESK RIGHT
SCALE: 1/2" = 1'-0"



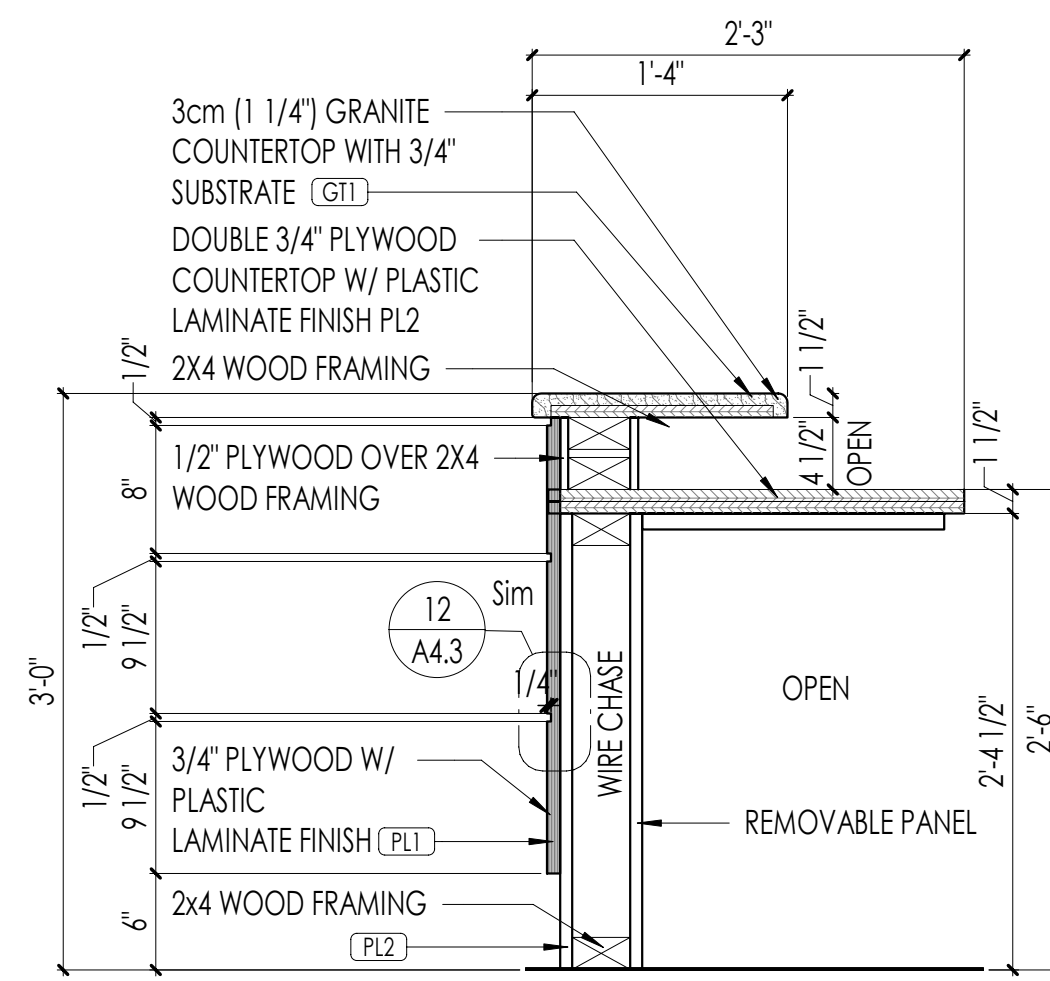
13 SECTION @ COFFEE BAR
SCALE: 1" = 1'-0"



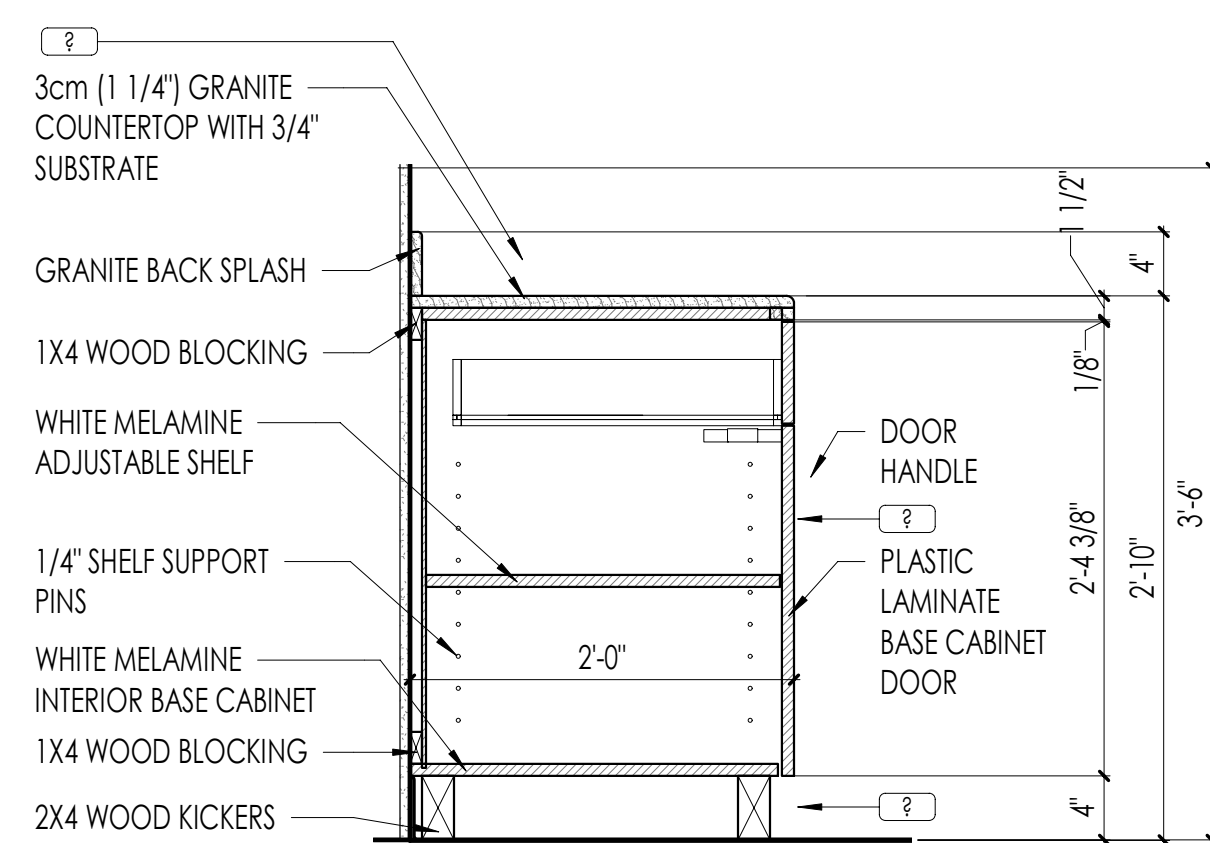
09 RECEPTION COUNTER TOP
SCALE: 1" = 1'-0"



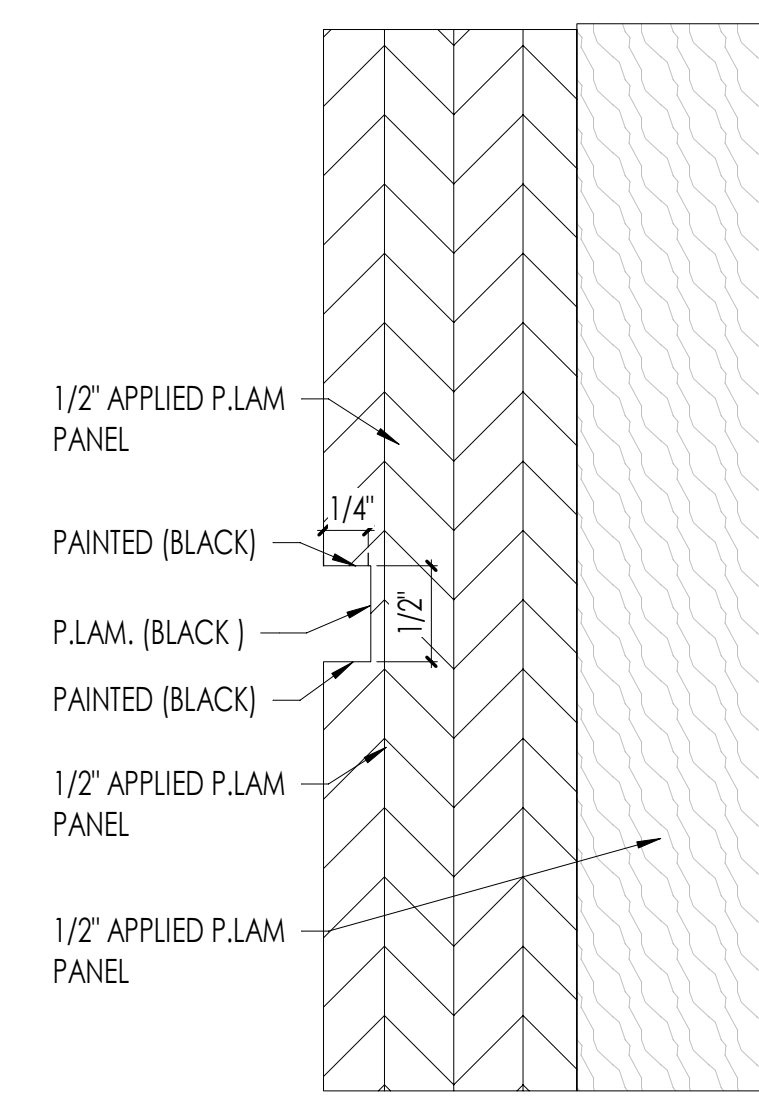
08 RECEPTION DESK SECTION
SCALE: 1" = 1'-0"



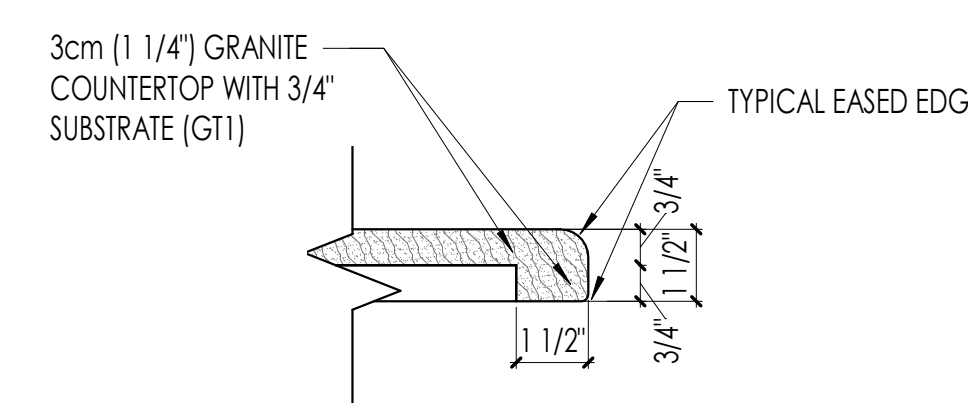
07 RECEPTION DESK SECTION
SCALE: 1" = 1'-0"



14 SECTION @ COFFEE BAR
SCALE: 1" = 1'-0"

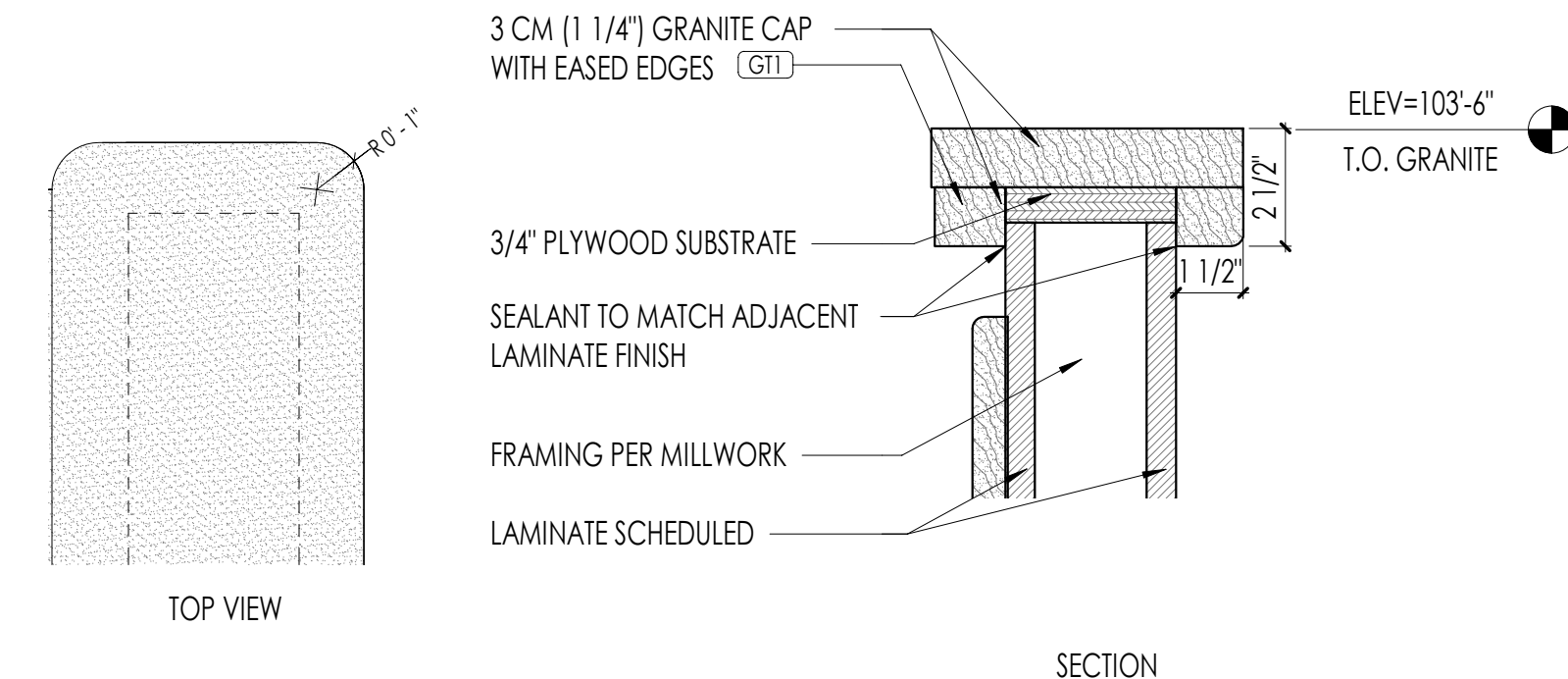


12 MILLWORK REVEAL
SCALE: 12" = 1'-0"



11 COUNTER END DETAIL
SCALE: 3" = 1'-0"

NOTE:
GRANITE CAP TO BE INSTALLED AT THE LOW WALLS IN THE LOBBY AT THE COFFEE BAR
COFFEE BAR LOW WALLS IS A STAND-ALONE MILLWORK PIECE PART OF THE MILLWORK PACKAGE.
LAMINATE PROVIDED TO MATCH OTHER MILLWORK



10 LOBBY LOW WALL CAP
SCALE: 3" = 1'-0"

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Millwork Details

Sheet Number: A4.3



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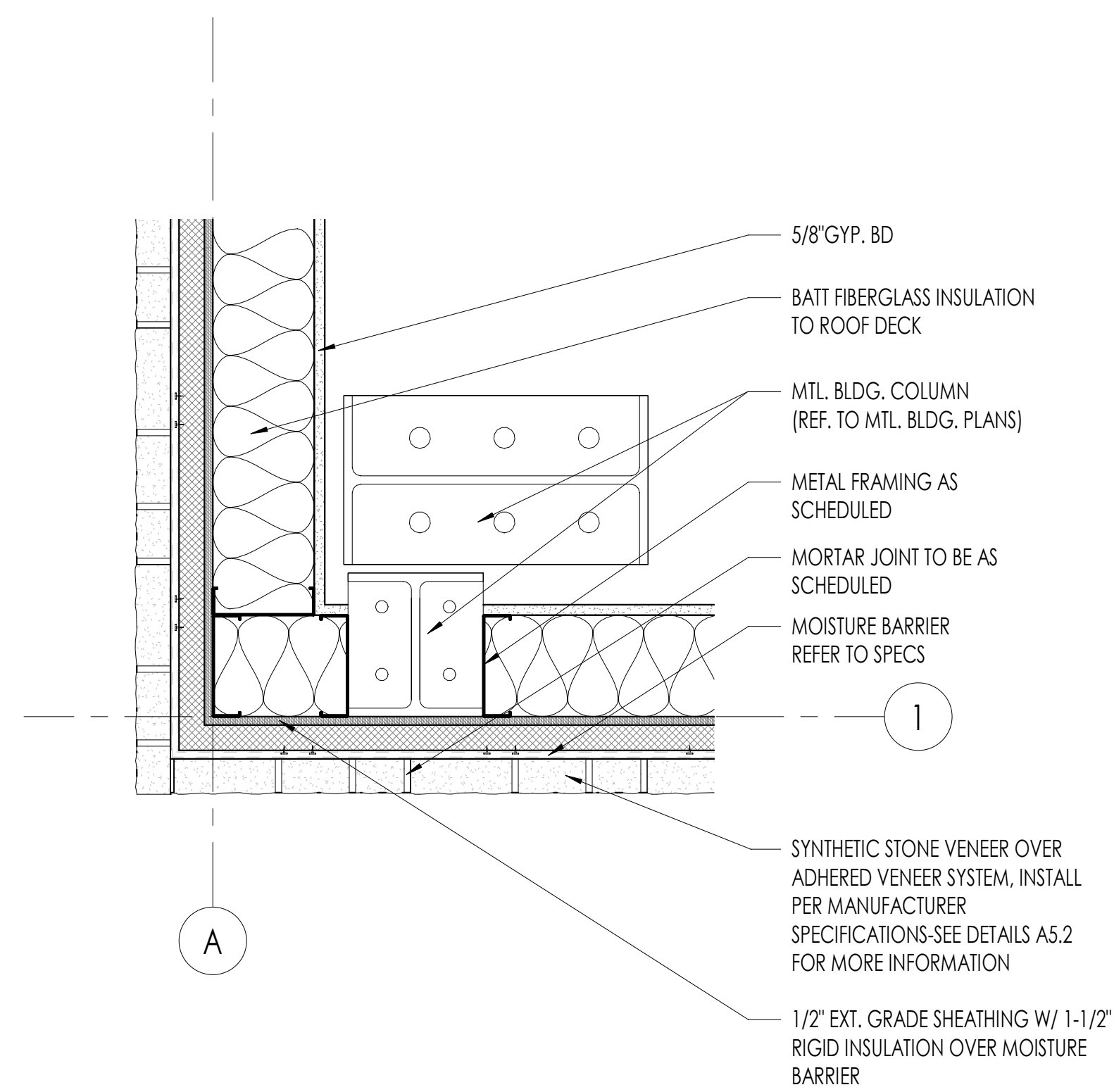
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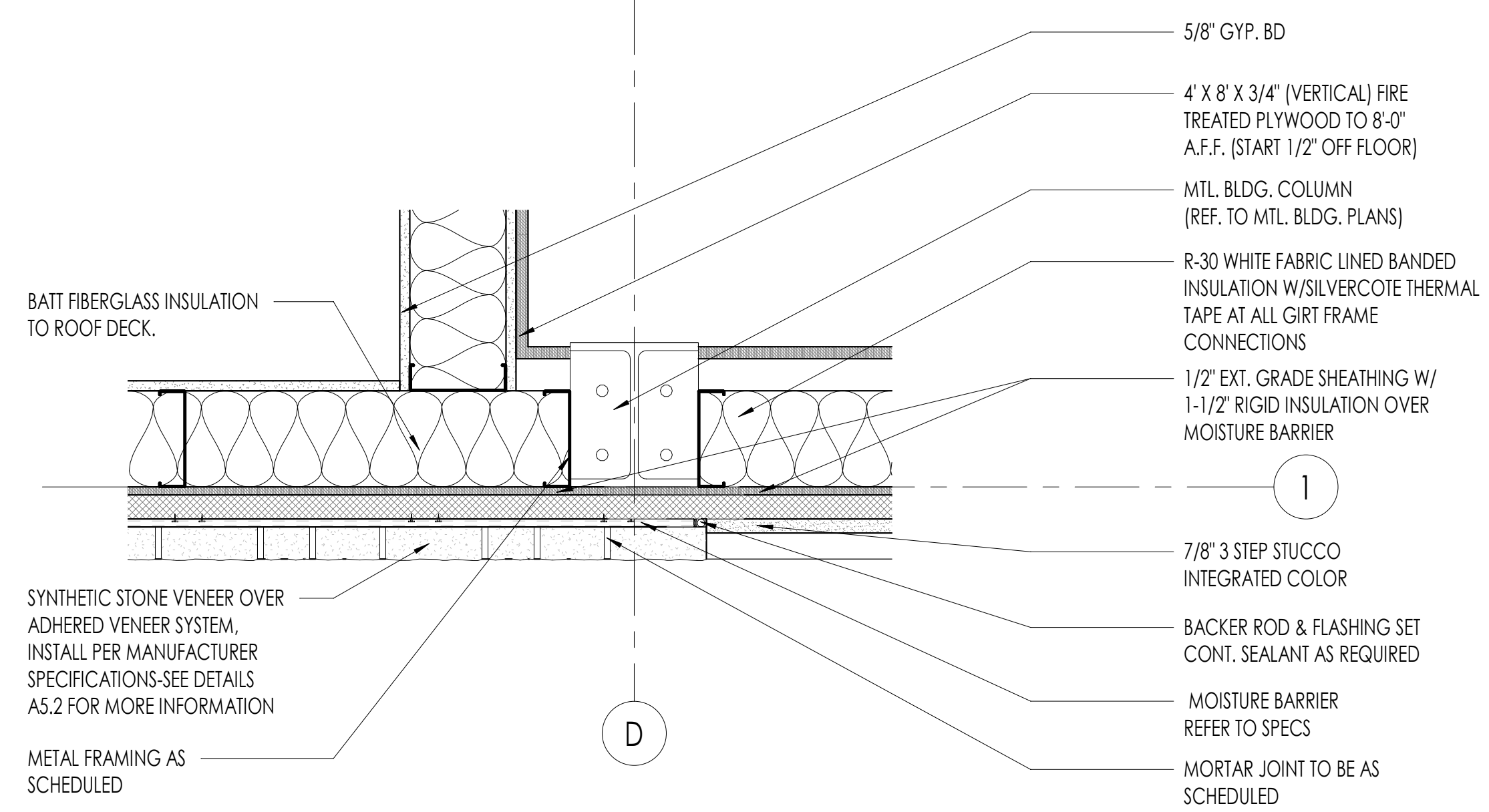


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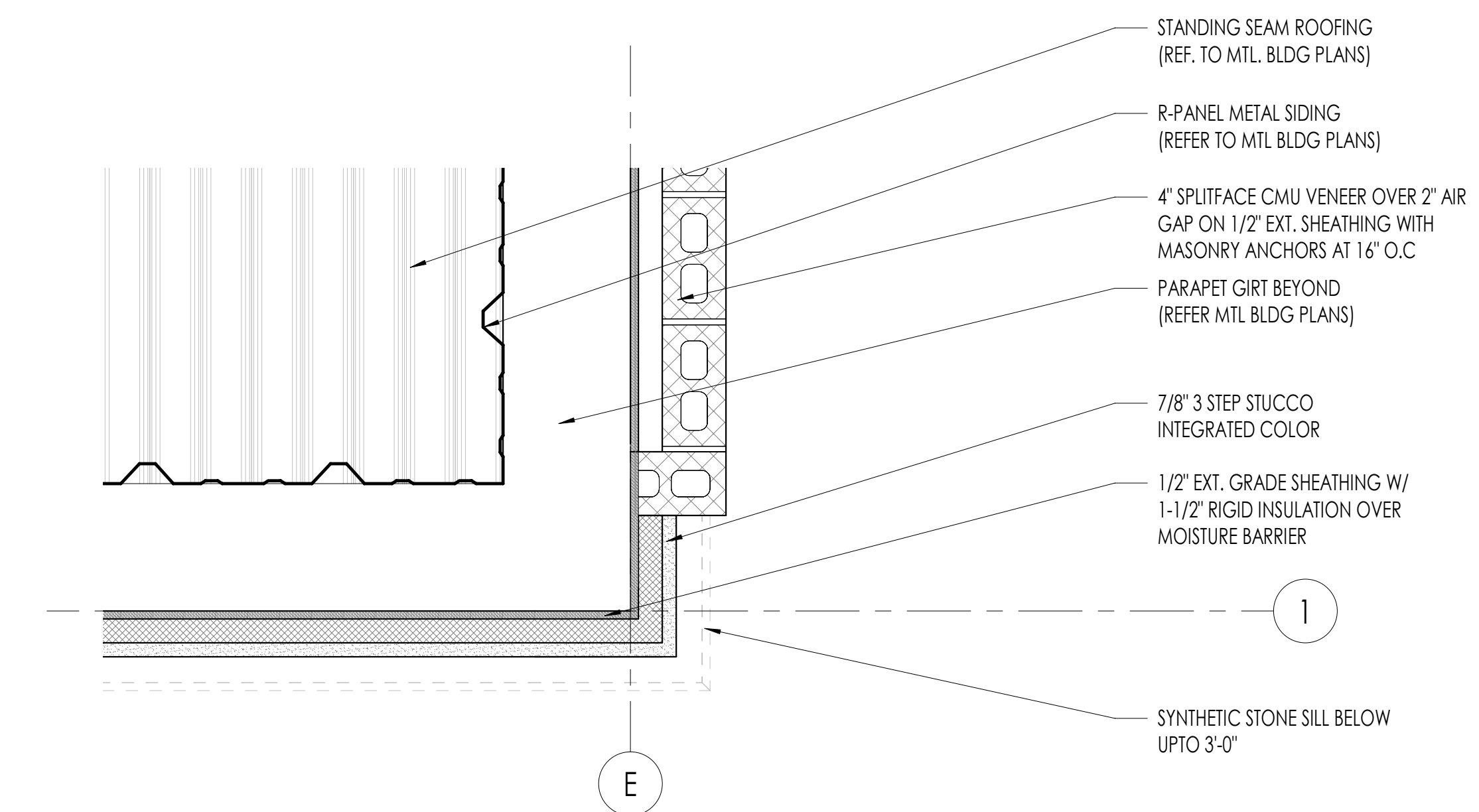
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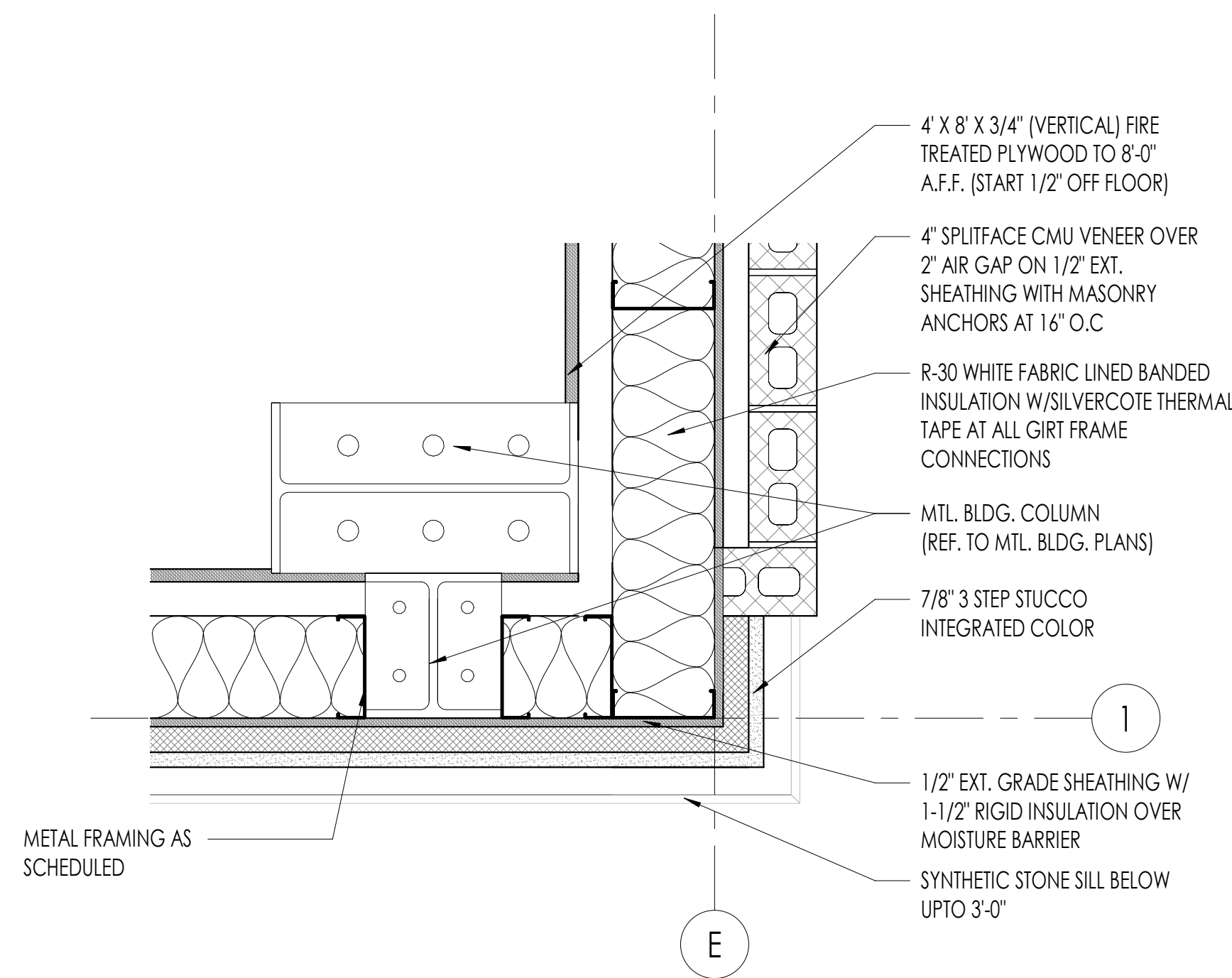
07 PLAN DETAIL
SCALE: 1 1/2" = 1'-0" @ 2'-0" A.F.F



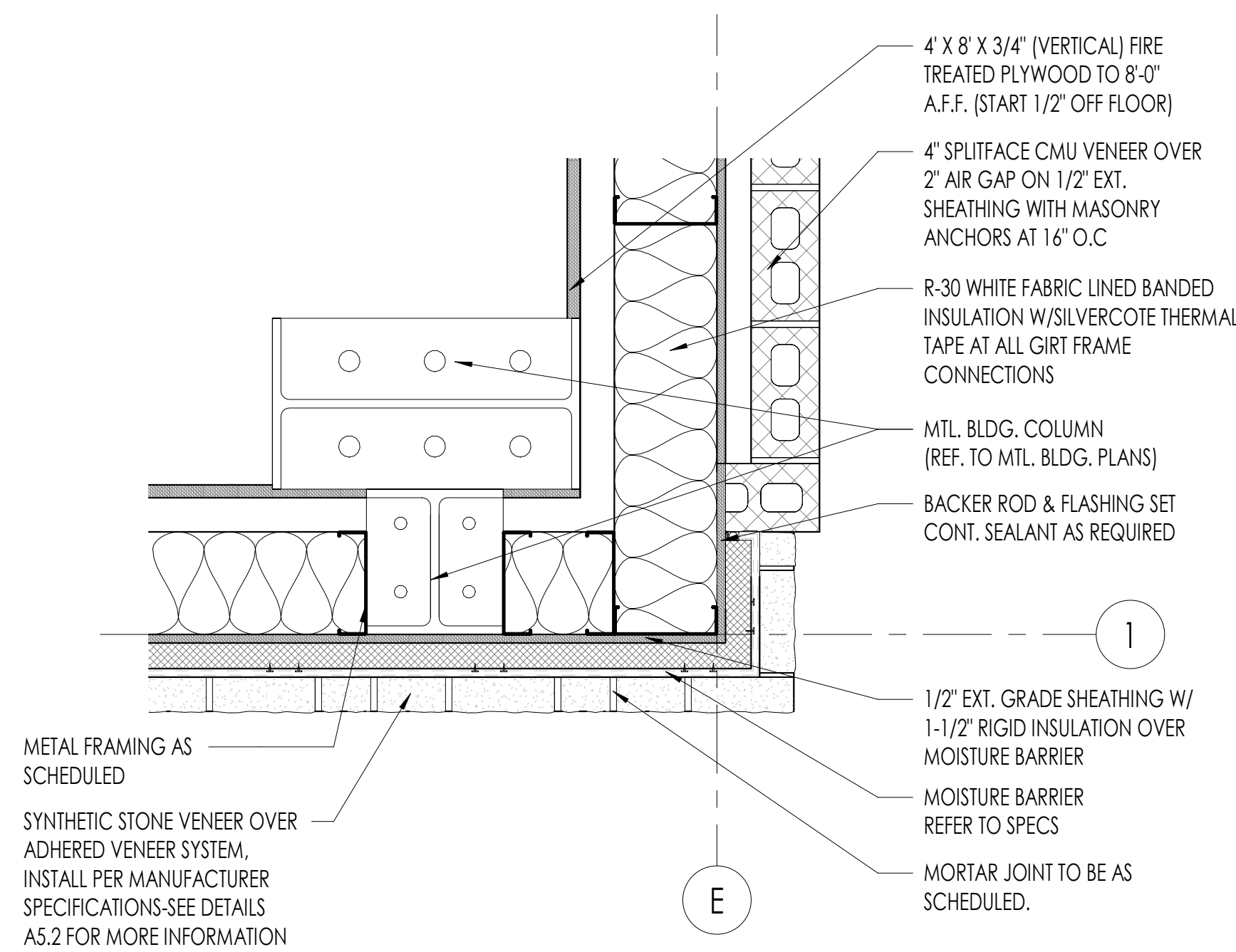
06 PLAN DETAIL
SCALE: 1 1/2" = 1'-0" @ 7'-0" A.F.F



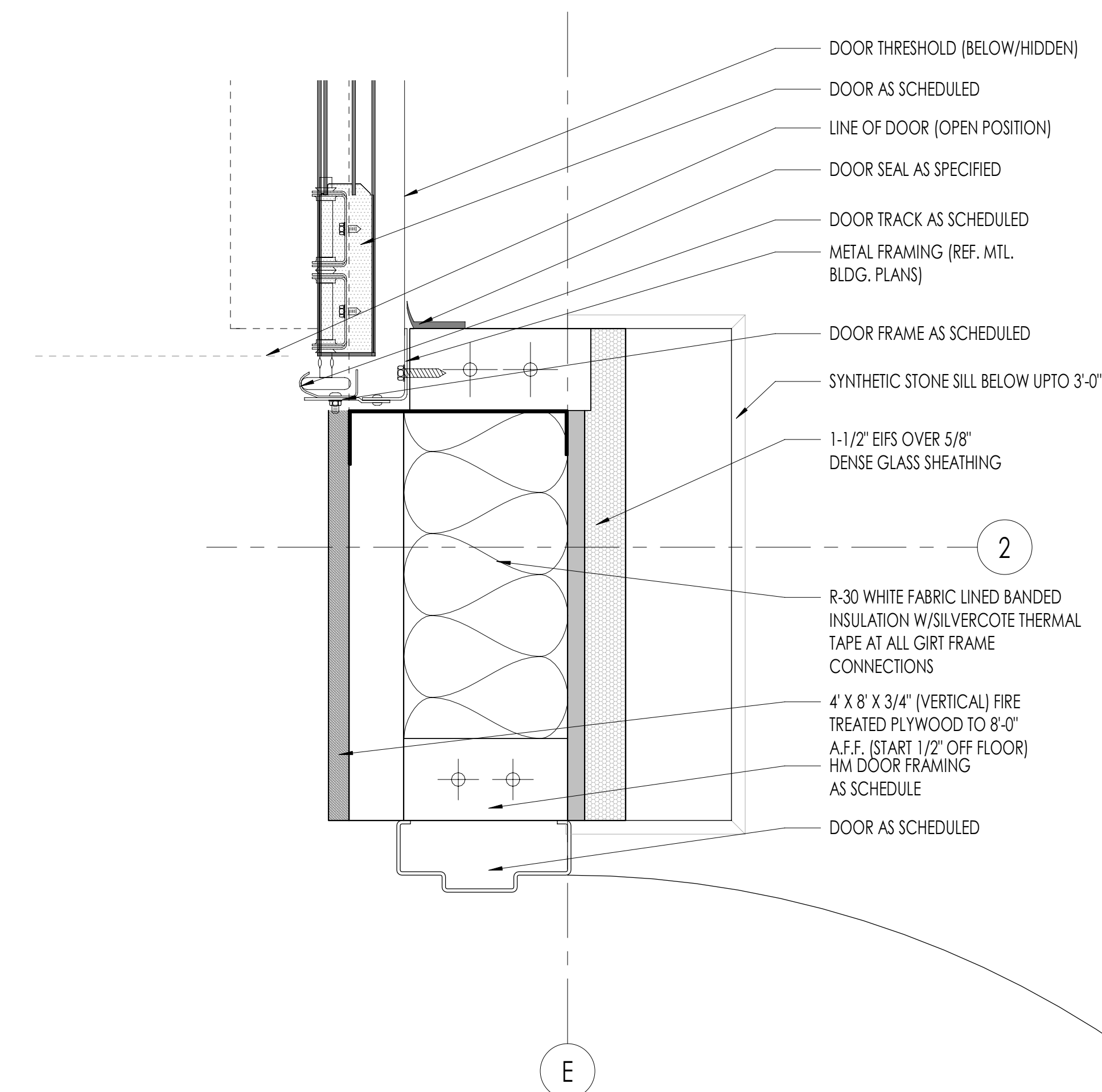
05 PLAN DETAIL
SCALE: 1 1/2" = 1'-0" @ 20'-0" A.F.F



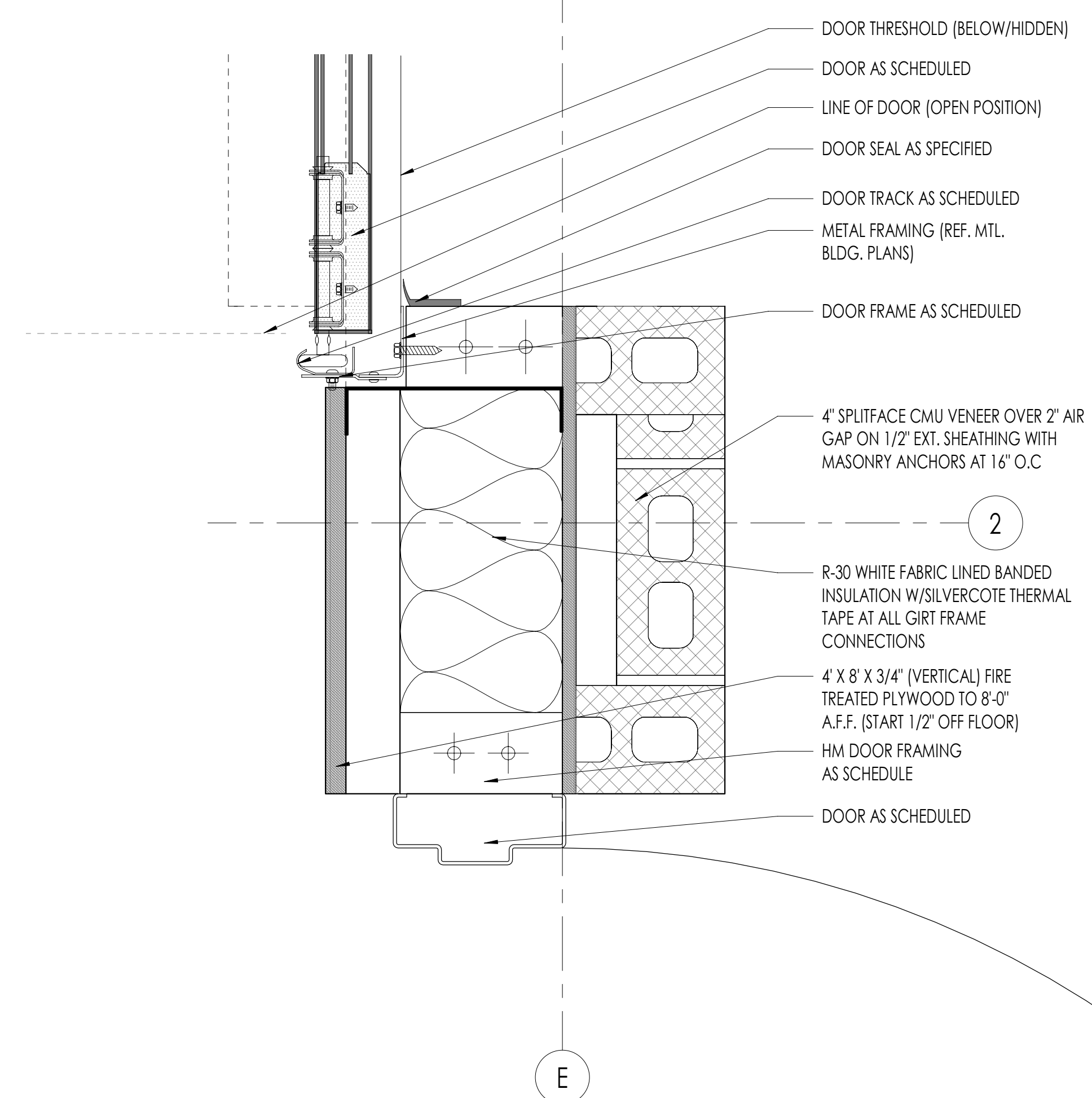
04 PLAN DETAIL
SCALE: 1 1/2" = 1'-0" @ 7'-0" A.F.F



03 PLAN DETAIL
SCALE: 1 1/2" = 1'-0" @ 2'-0" A.F.F



02 PLAN DETAIL
SCALE: 3" = 1'-0" @ 6'-0" A.F.F



01 PLAN DETAILS
SCALE: 3" = 1'-0" @ 2'-0" A.F.F

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Issue Date: 12.10.2021
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Plan Details

Sheet Number: A5.0





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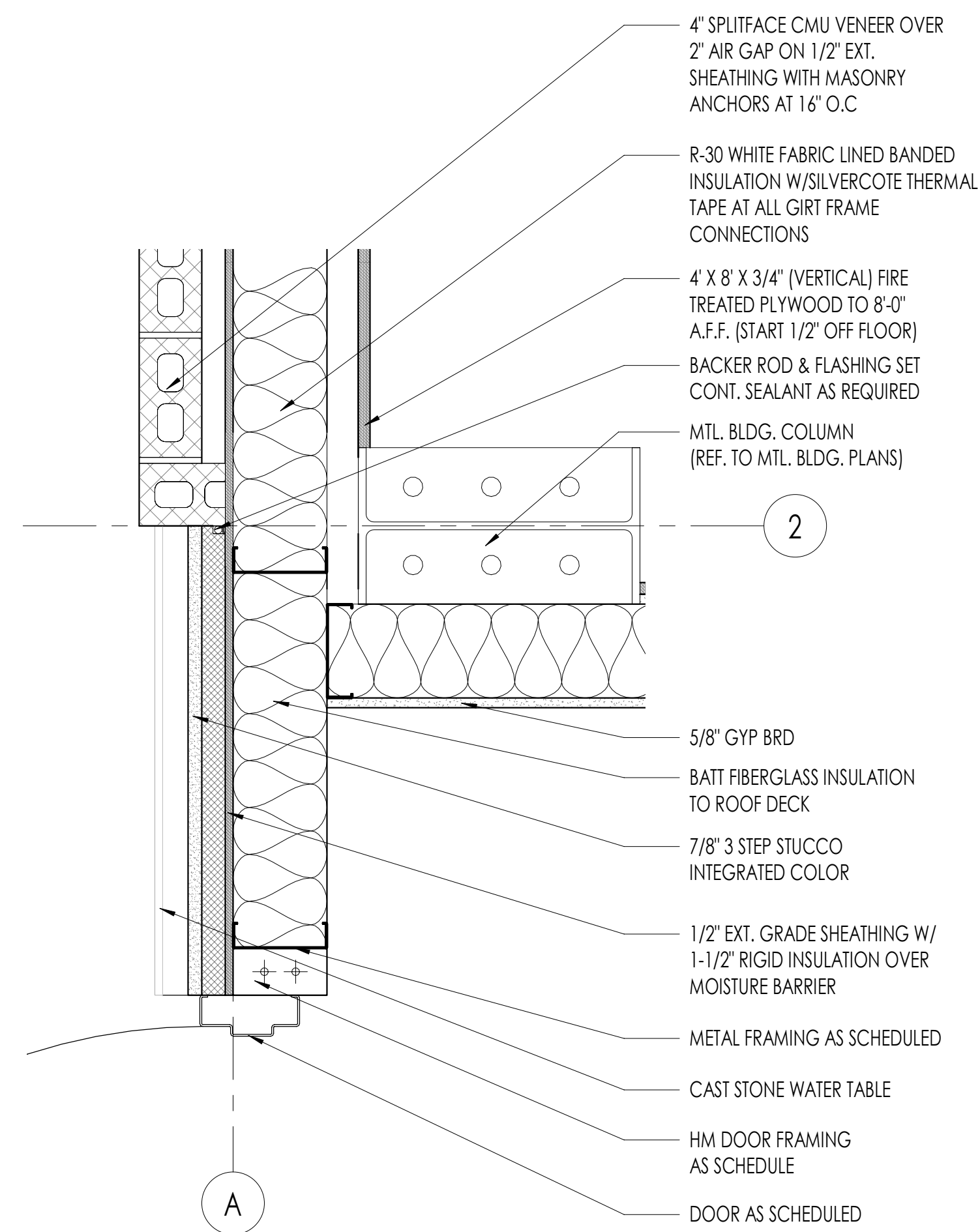
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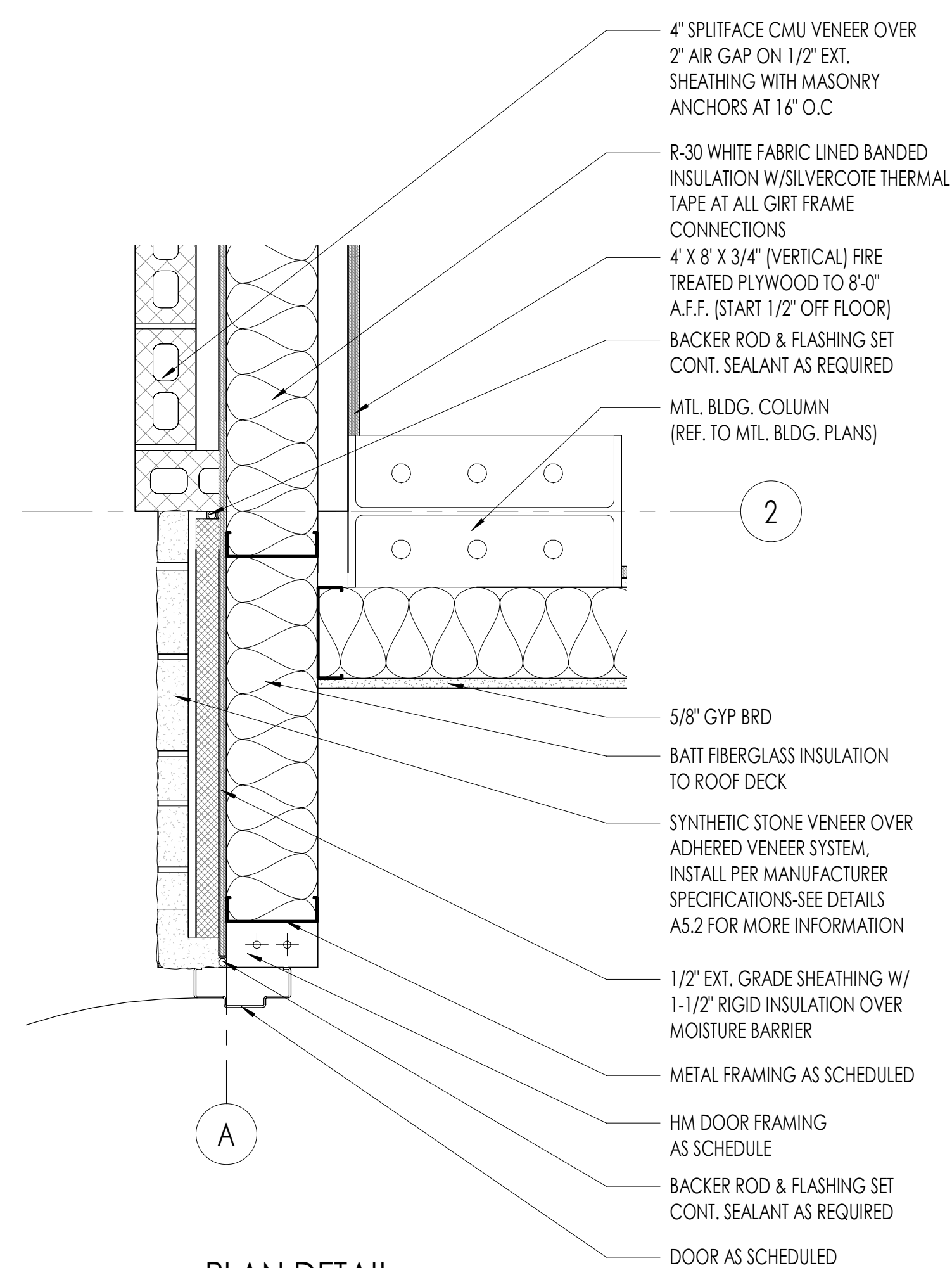


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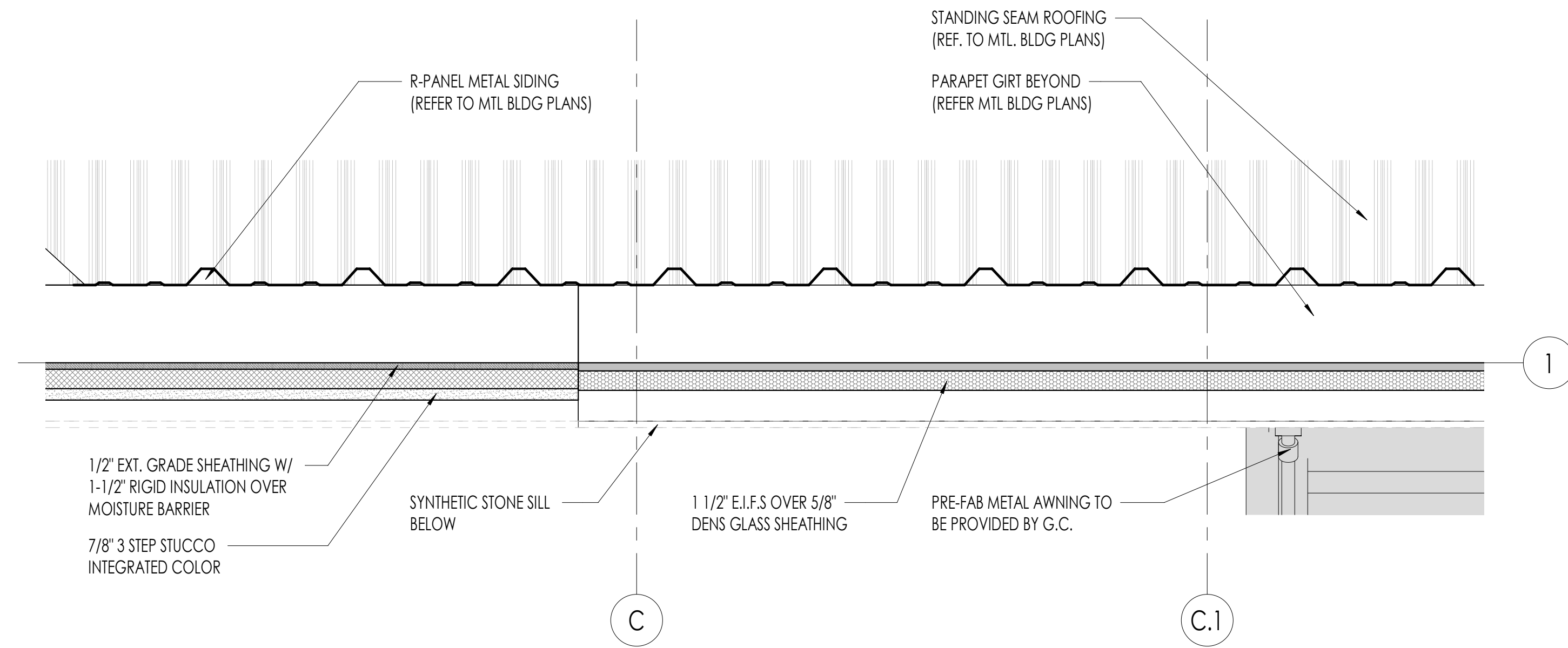
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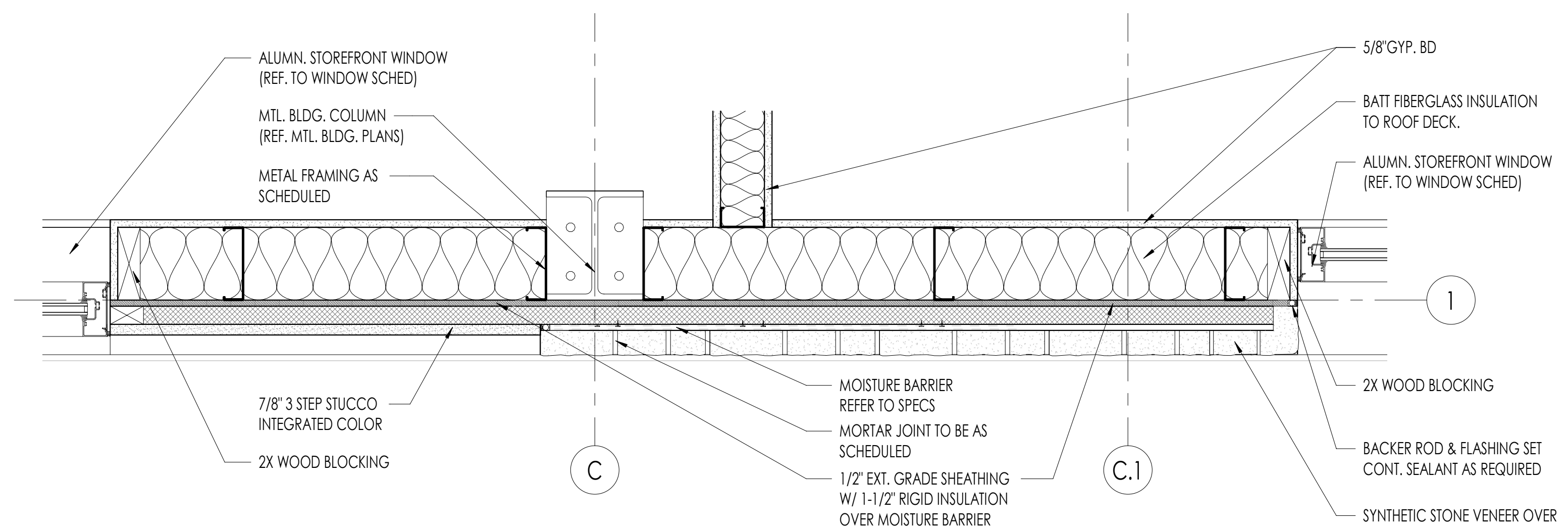
05 PLAN DETAIL
SCALE: 1 1/2" = 1'-0" @ 7'-0" A.F.F.



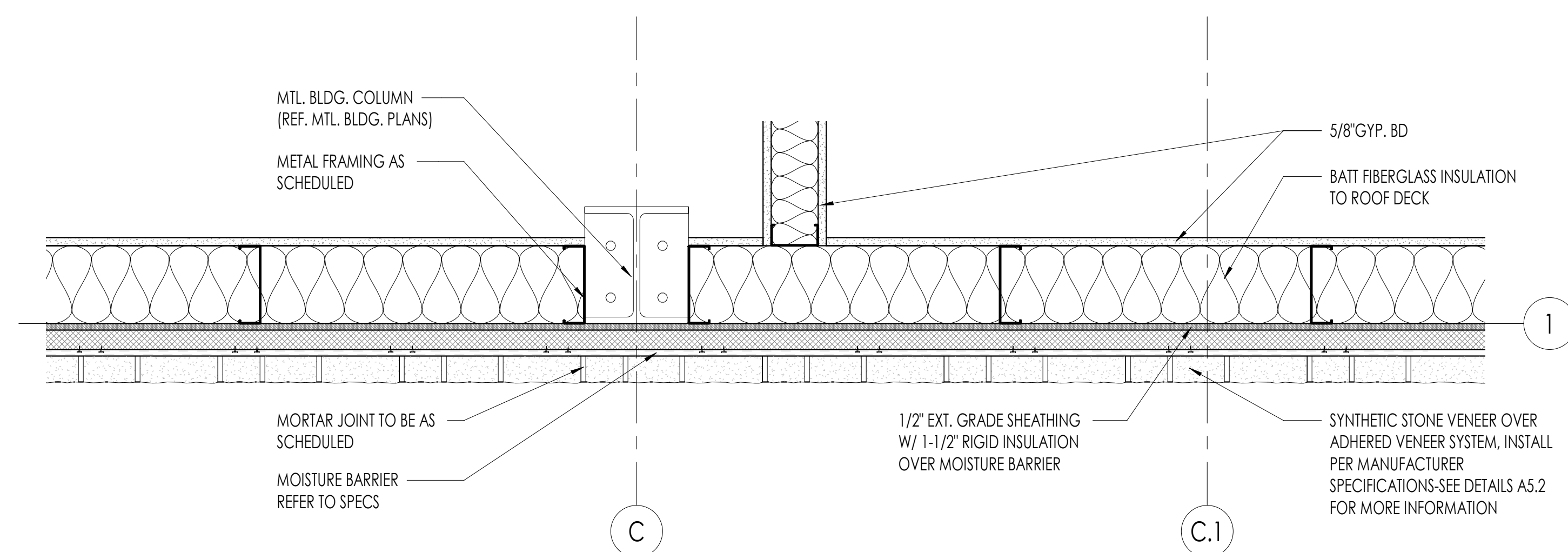
04 PLAN DETAIL
SCALE: 1 1/2" = 1'-0" @ 2'-0" A.F.F.



03 PLAN DETAIL
SCALE: 1 1/2" = 1'-0" @ 18'-0" A.F.F.



02 PLAN DETAIL
SCALE: 1 1/2" = 1'-0" @ 7'-0" A.F.F.



01 PLAN DETAIL
SCALE: 1 1/2" = 1'-0" @ 2'-0" A.F.F.

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Revisions:

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Plan Details

Sheet Number:

A5.1





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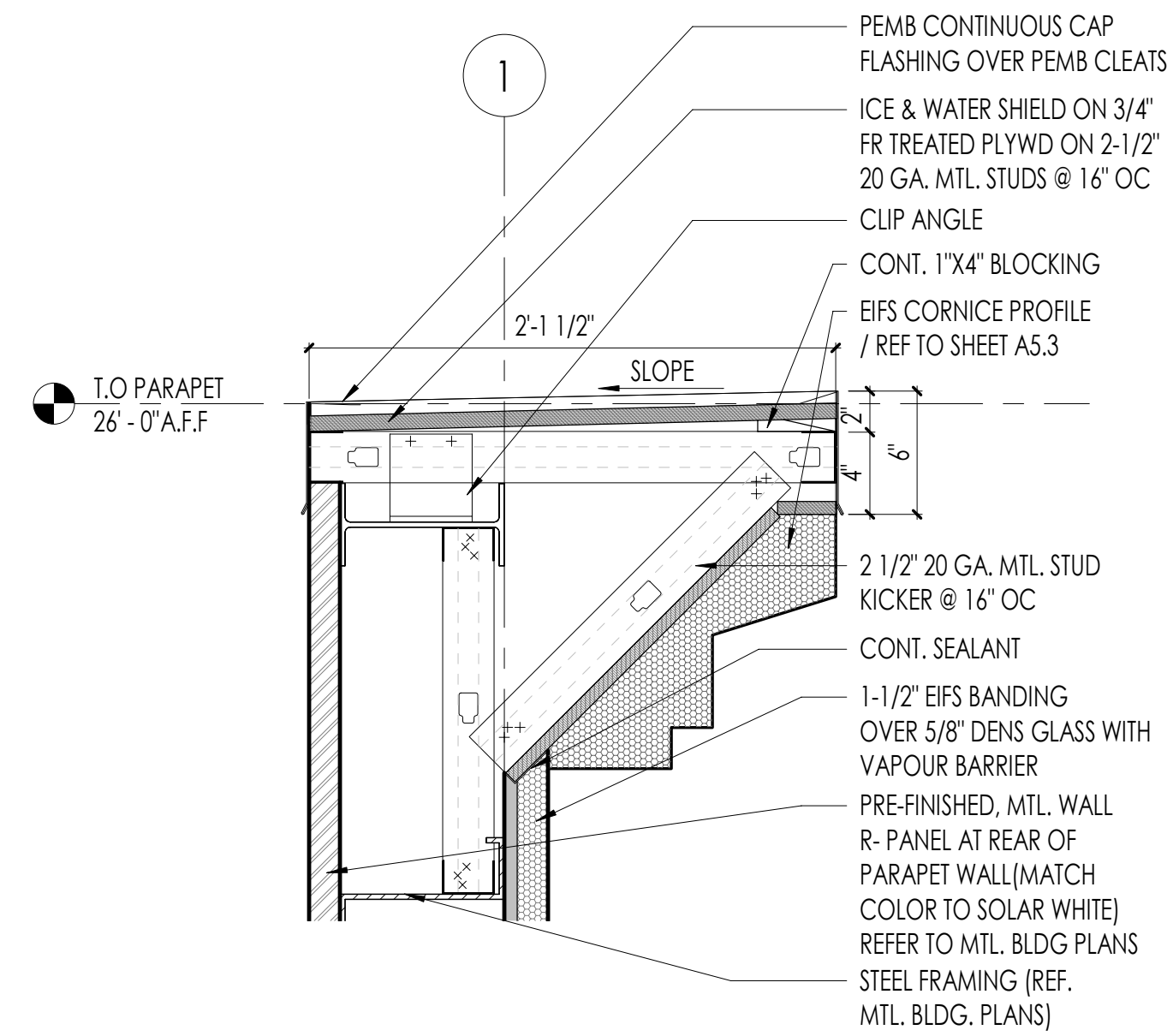
All measurements and items portrayed on this sheet are deemed to be accurate by architect, however all bidding General Contractors should field verify the actual conditions. Any changes to the scope of work, and thus potential change orders, should be identified and communicated in your price submittal to Cross Development / Caliber Collision.

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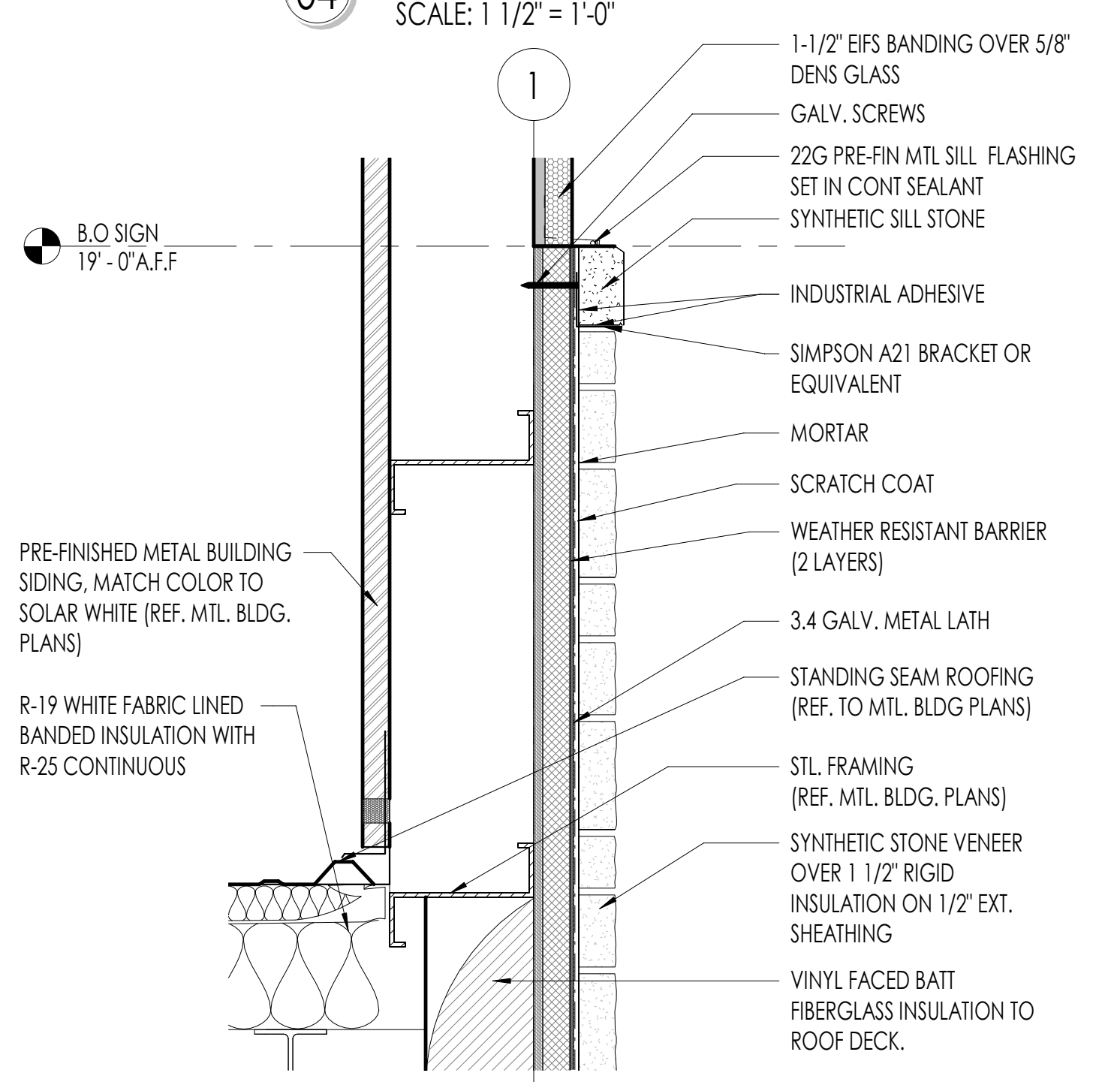
Job Number: 2071
Issue Date: 12.10.2021
Revisions:
Revisions:
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Revisions:
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Revisions:

Section Detail

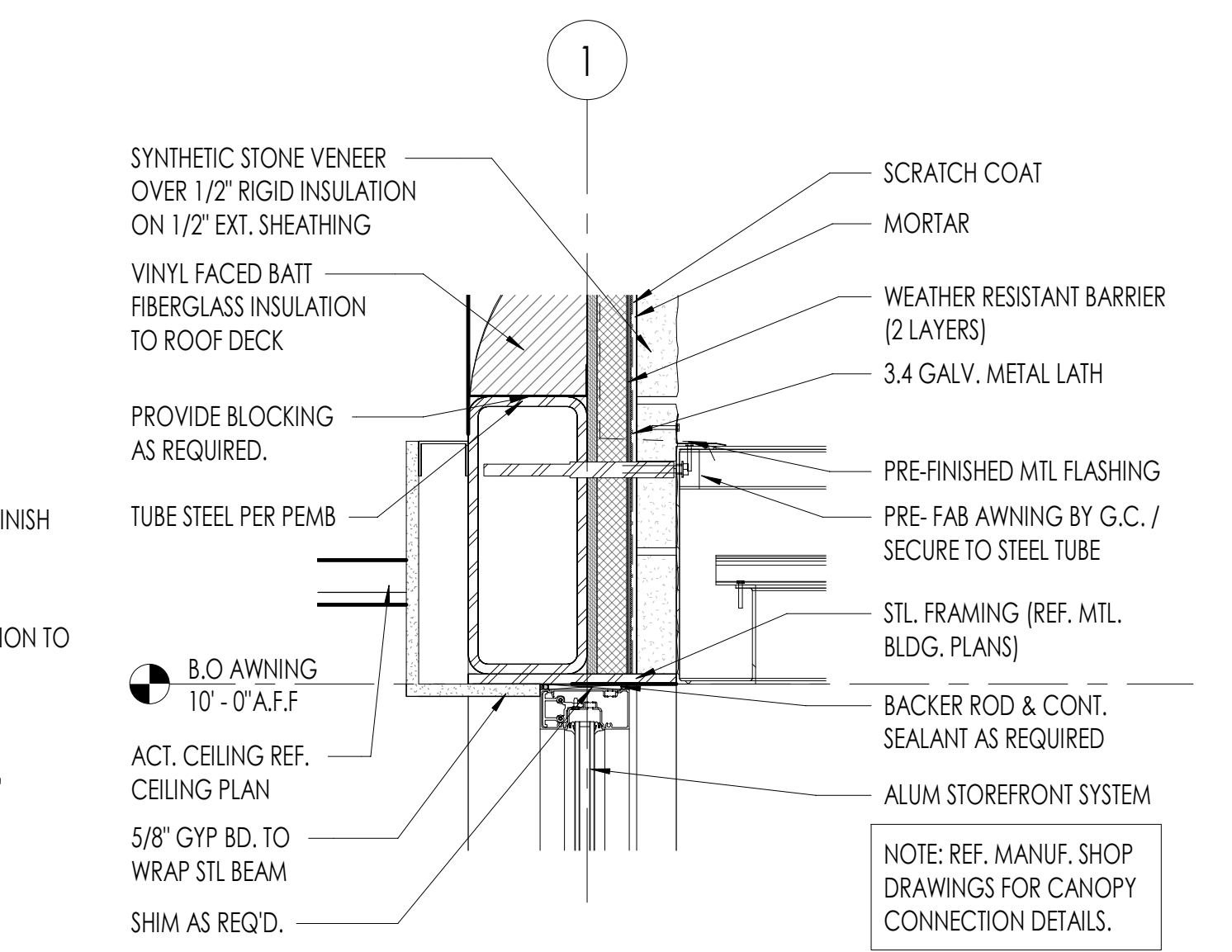
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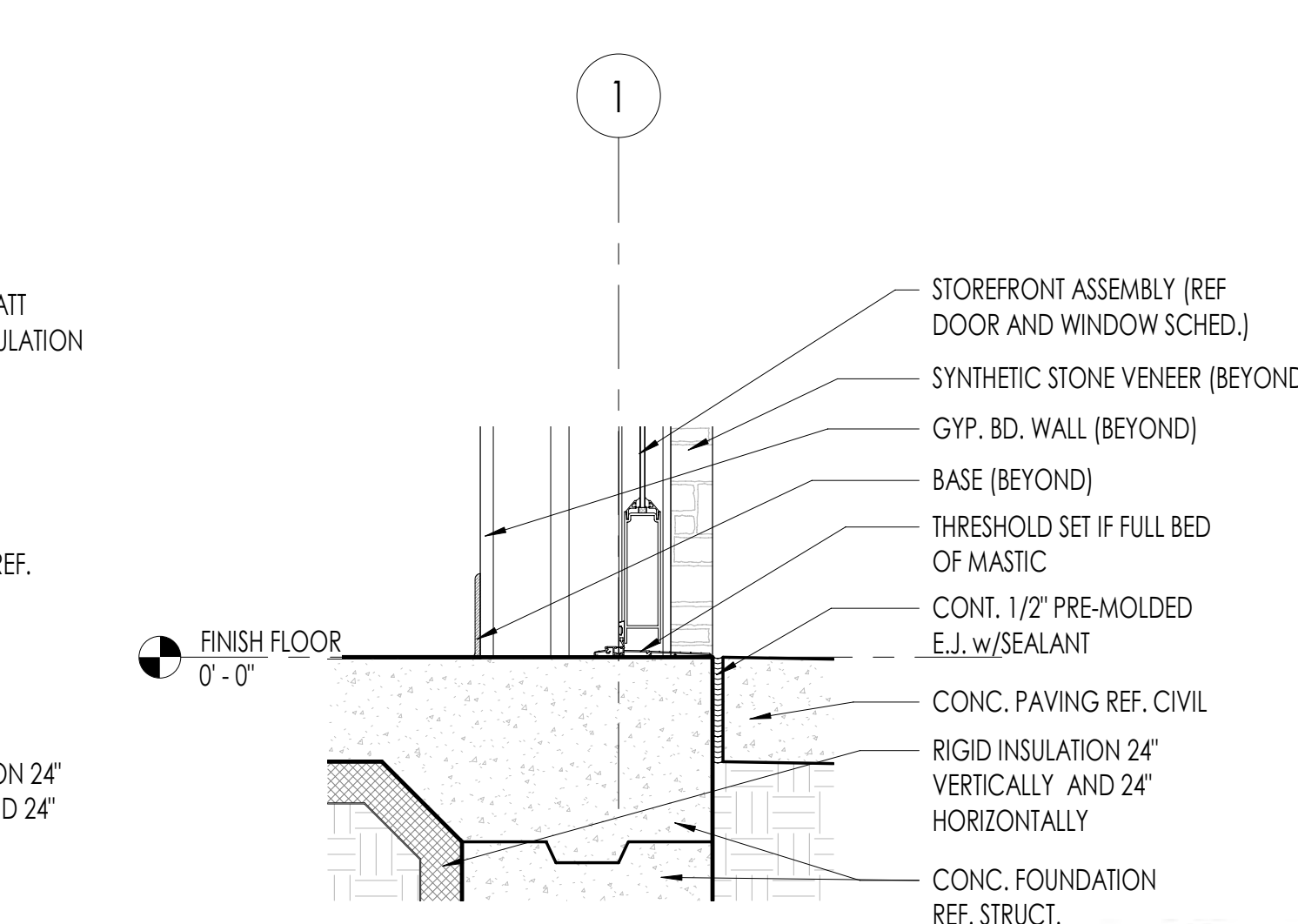
04 HIGH PARAPET AT OFFICE
SCALE: 1 1/2" = 1'-0"



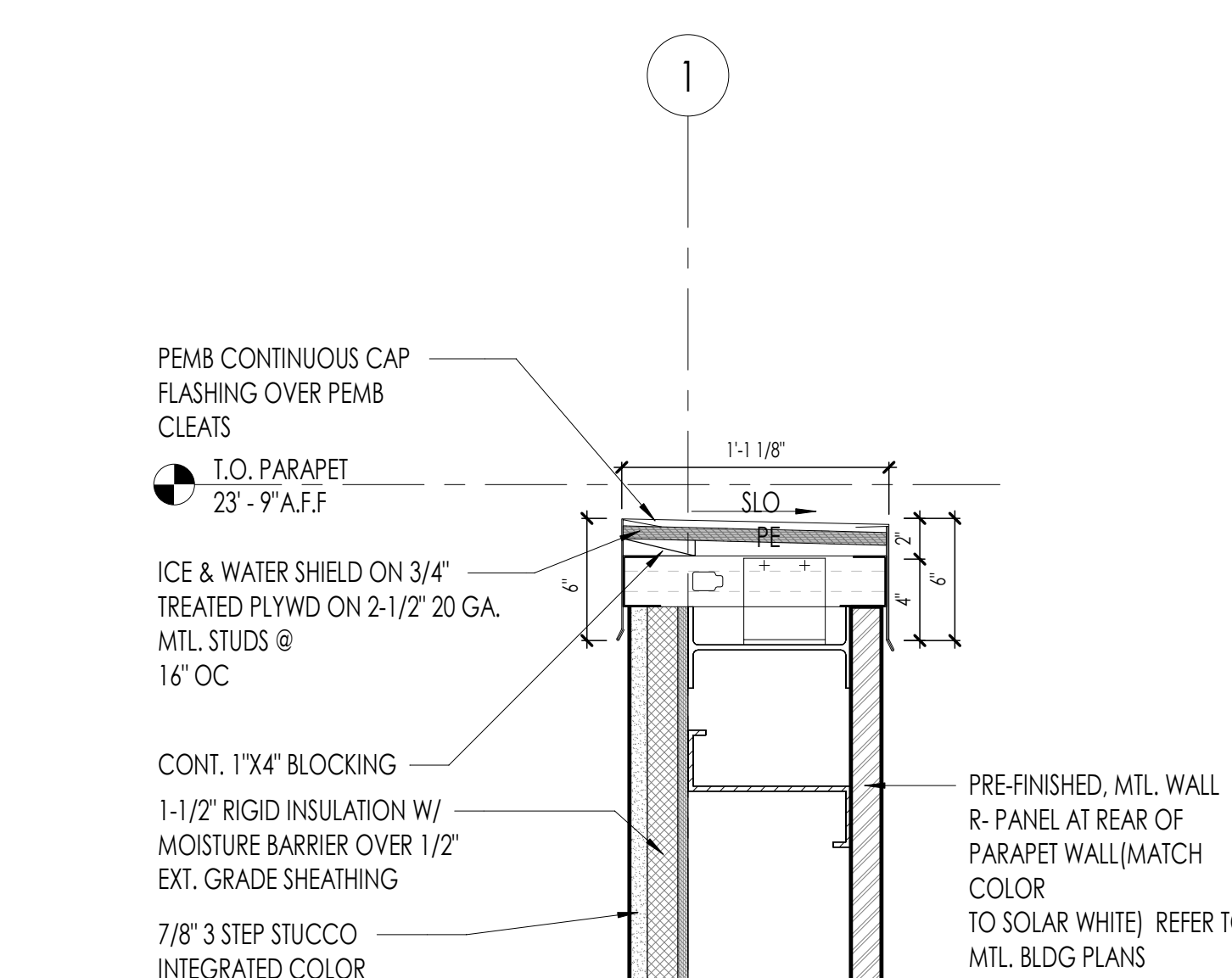
03 ROOF TO WALL DETAIL
SCALE: 1 1/2" = 1'-0"



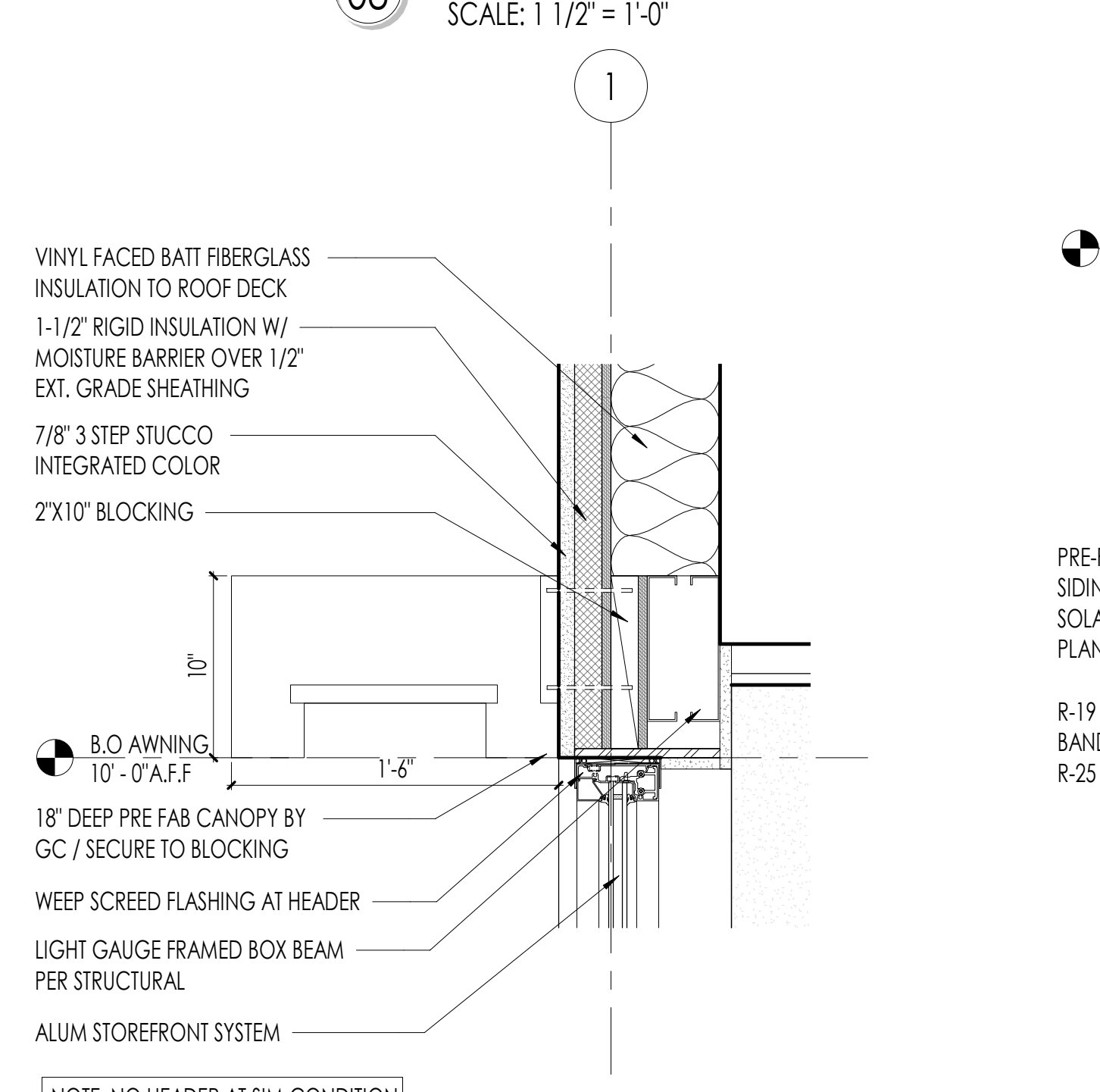
02 DOOR HDR AT OFFICE
SCALE: 1 1/2" = 1'-0"



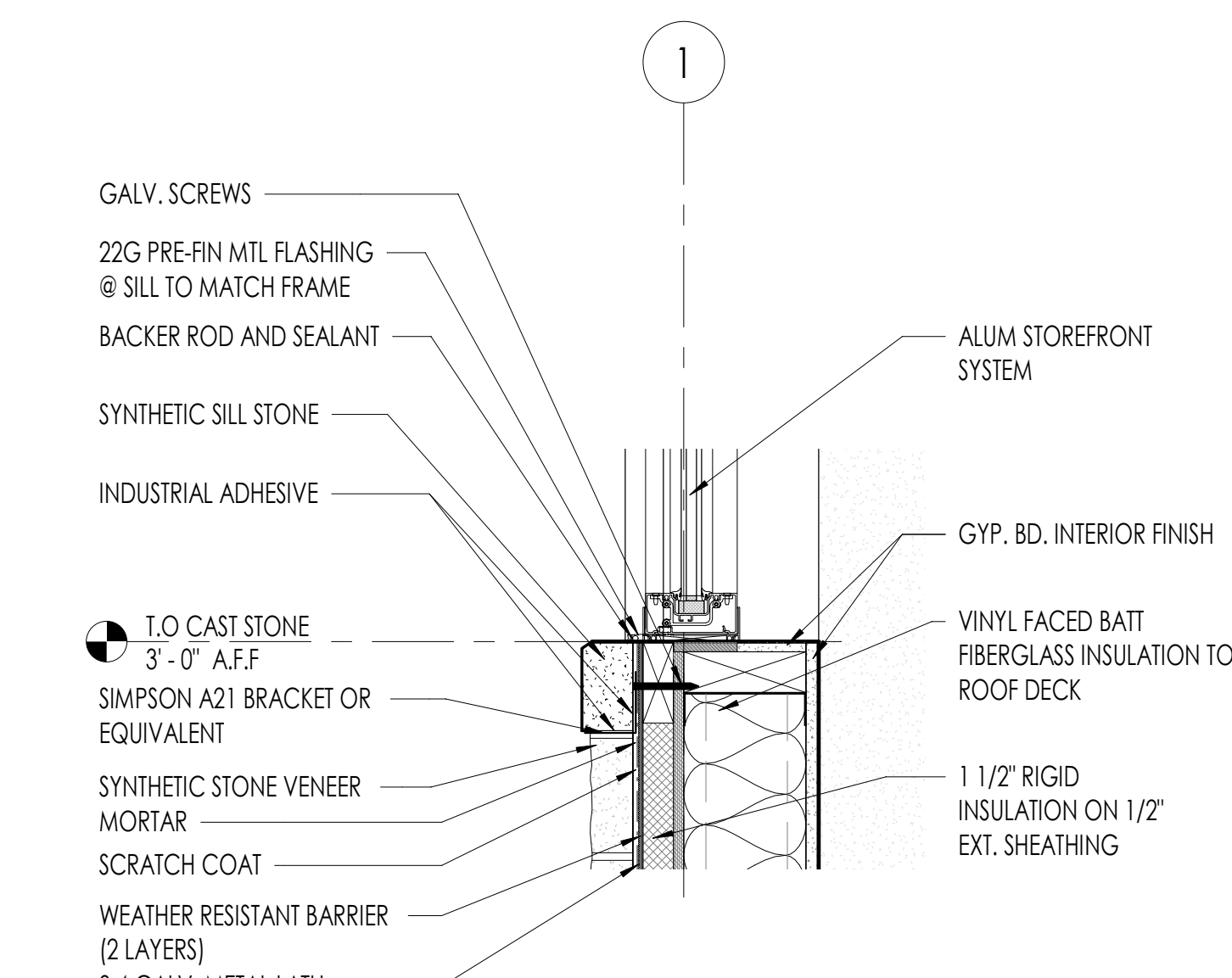
01 BASE DETAIL
SCALE: 1 1/2" = 1'-0"



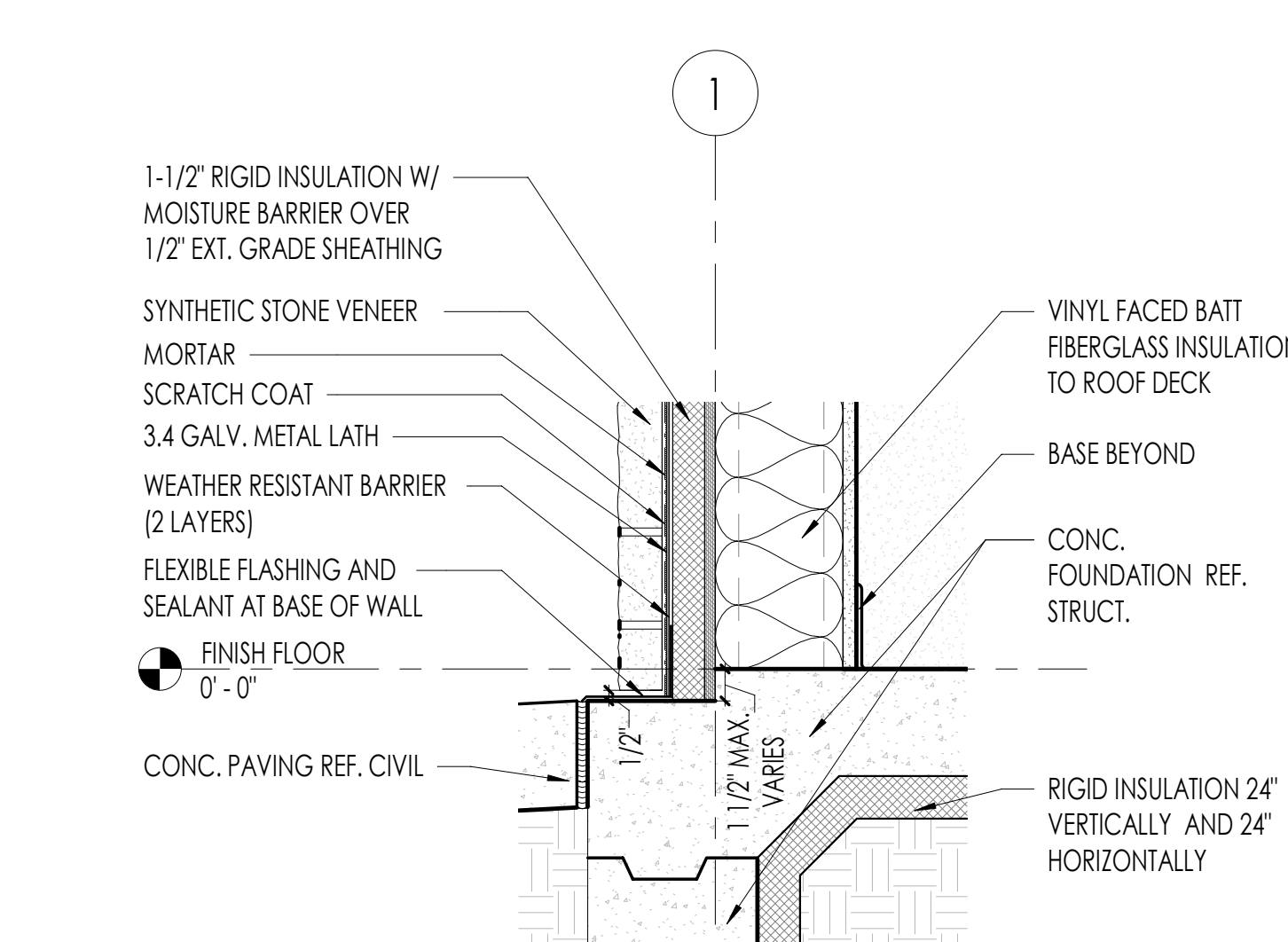
08 LOW PARAPET AT OFFICE
SCALE: 1 1/2" = 1'-0"



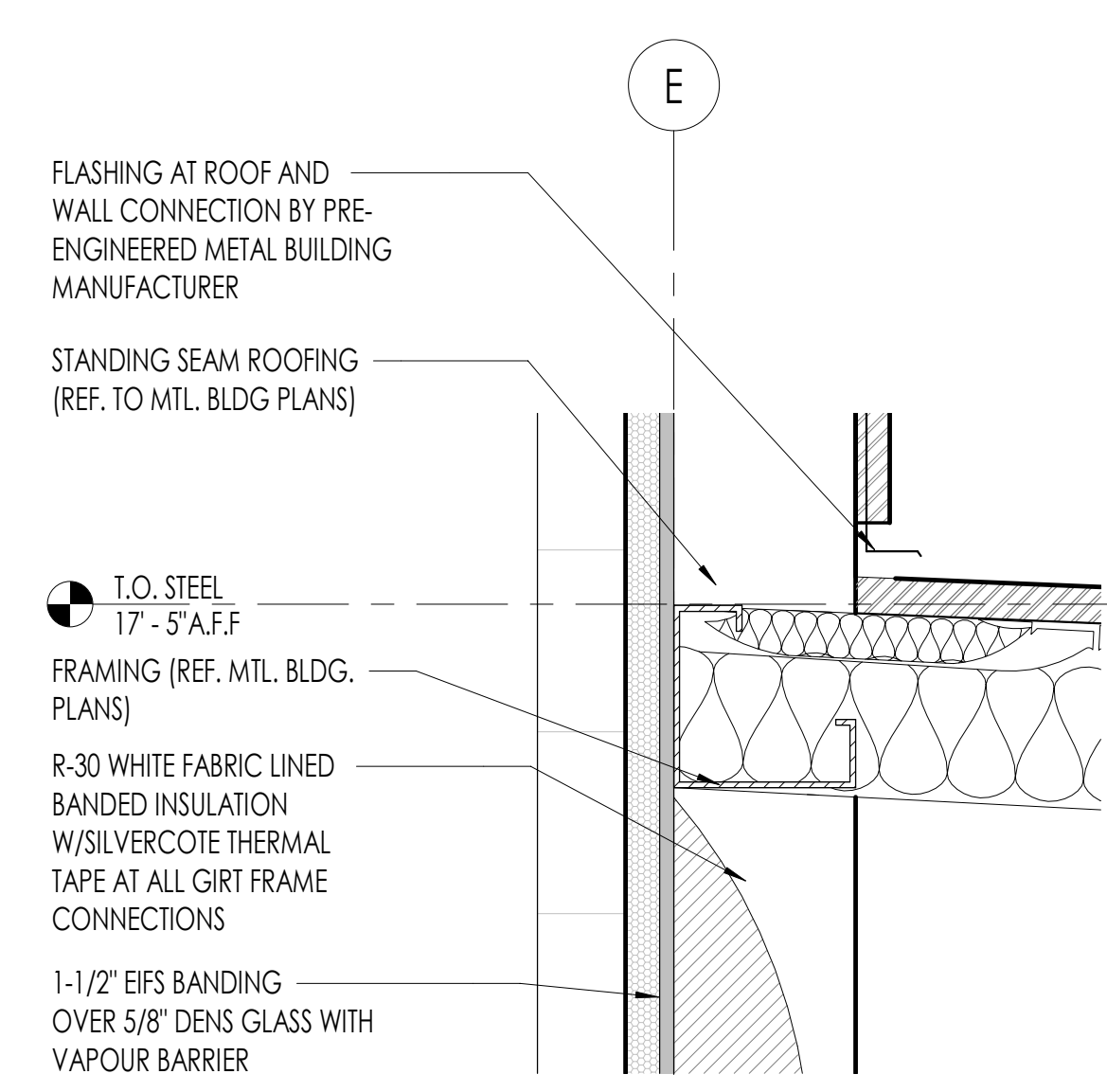
07 WINDOW HDR AT OFFICE
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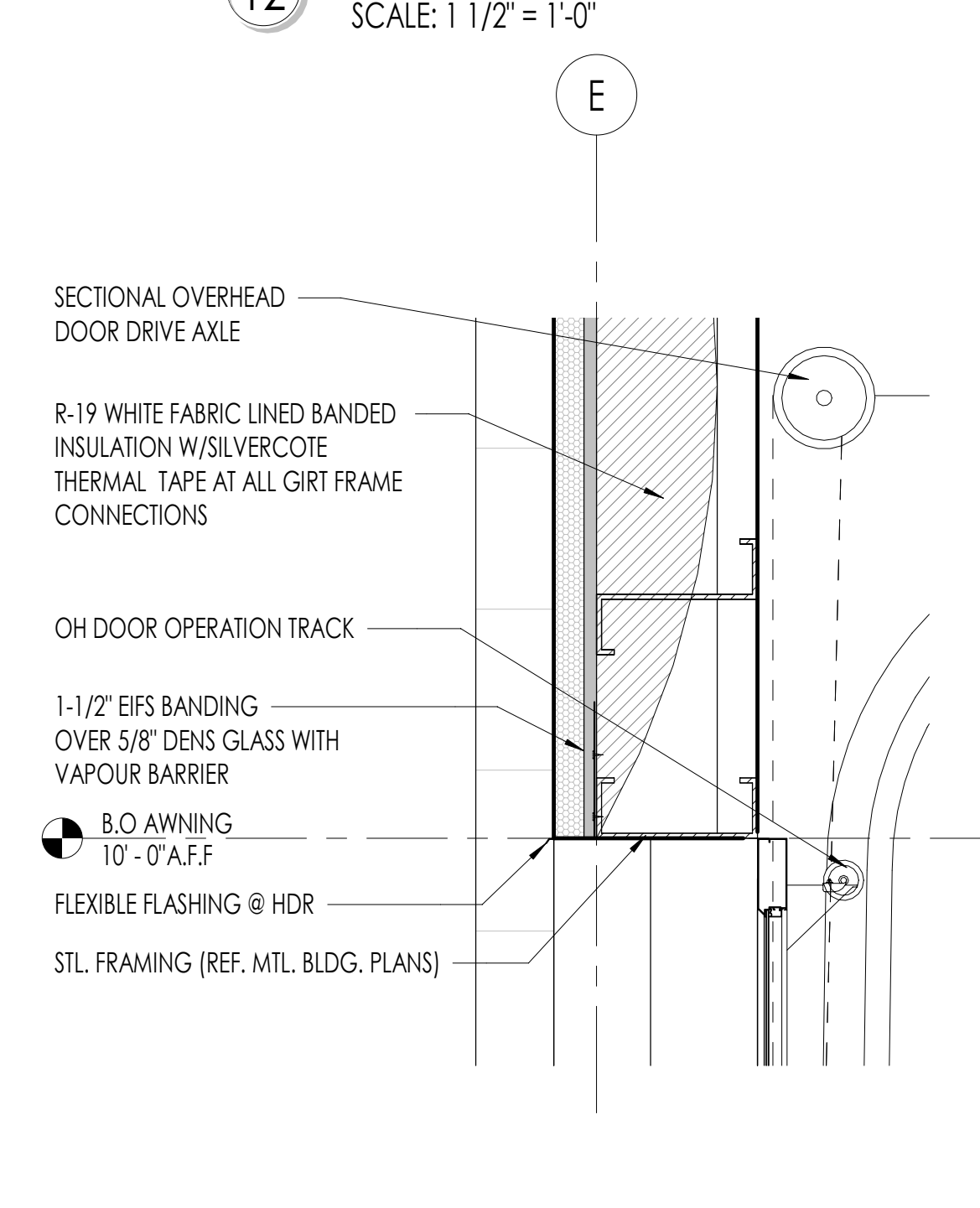
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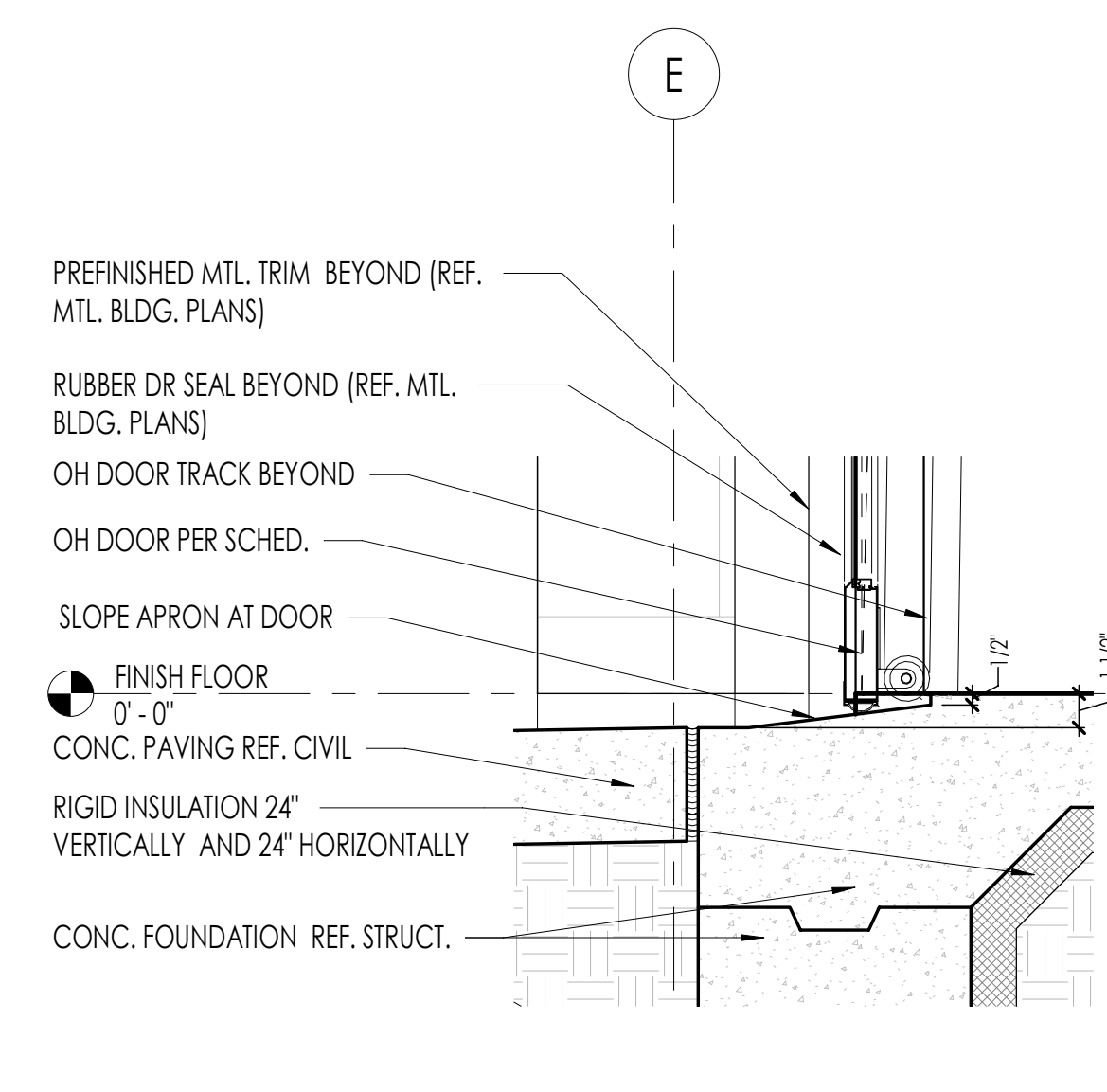
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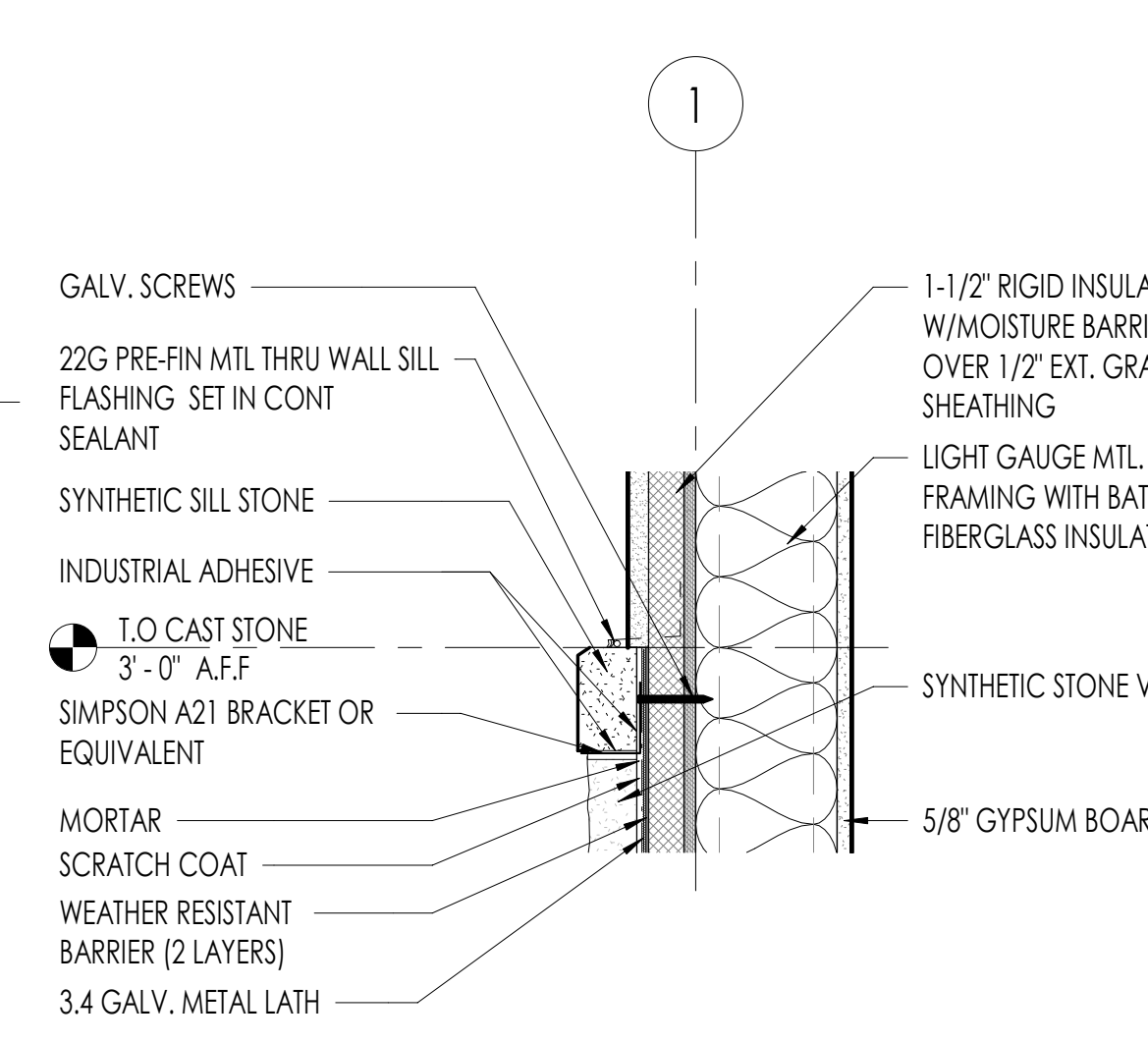
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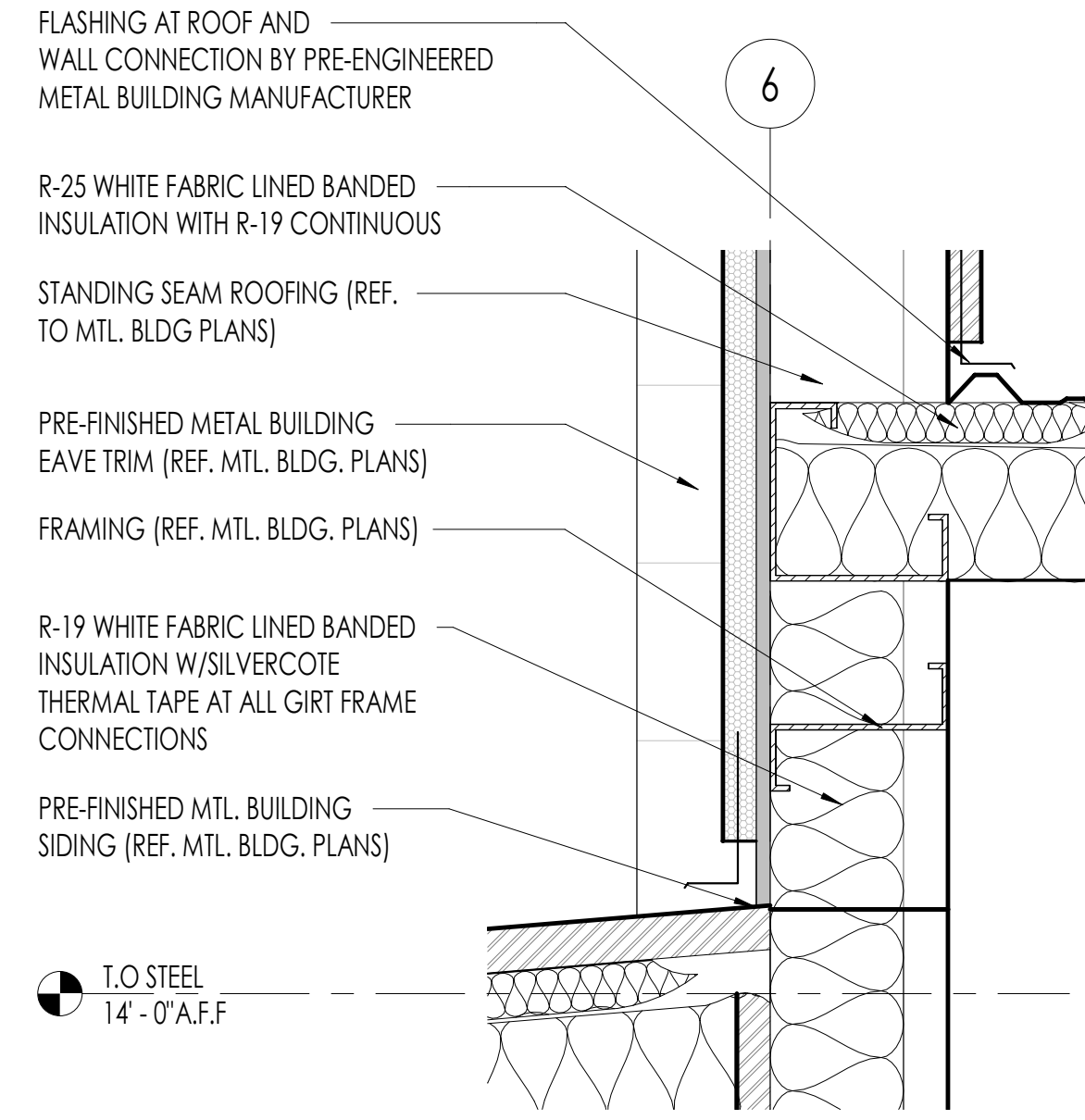
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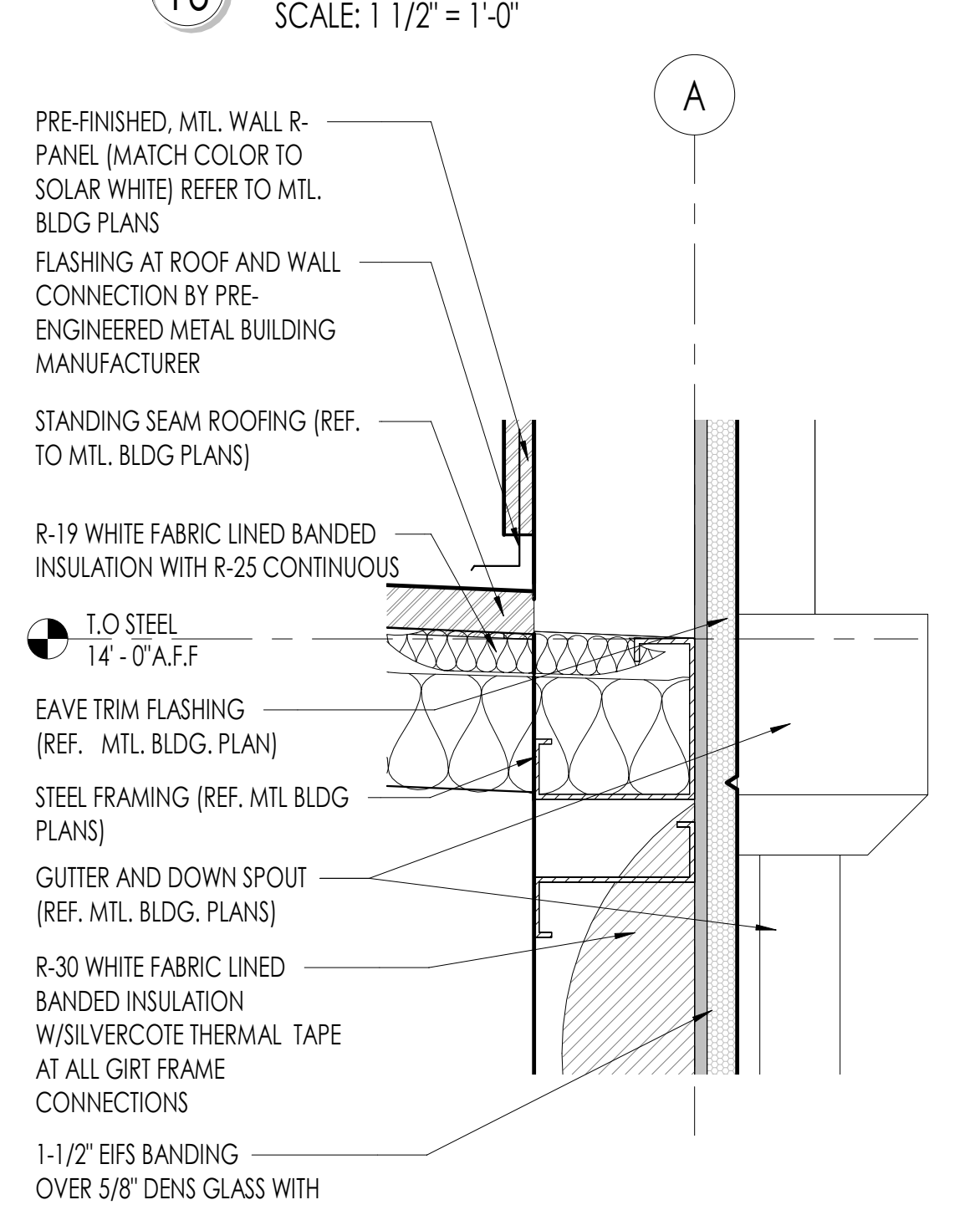
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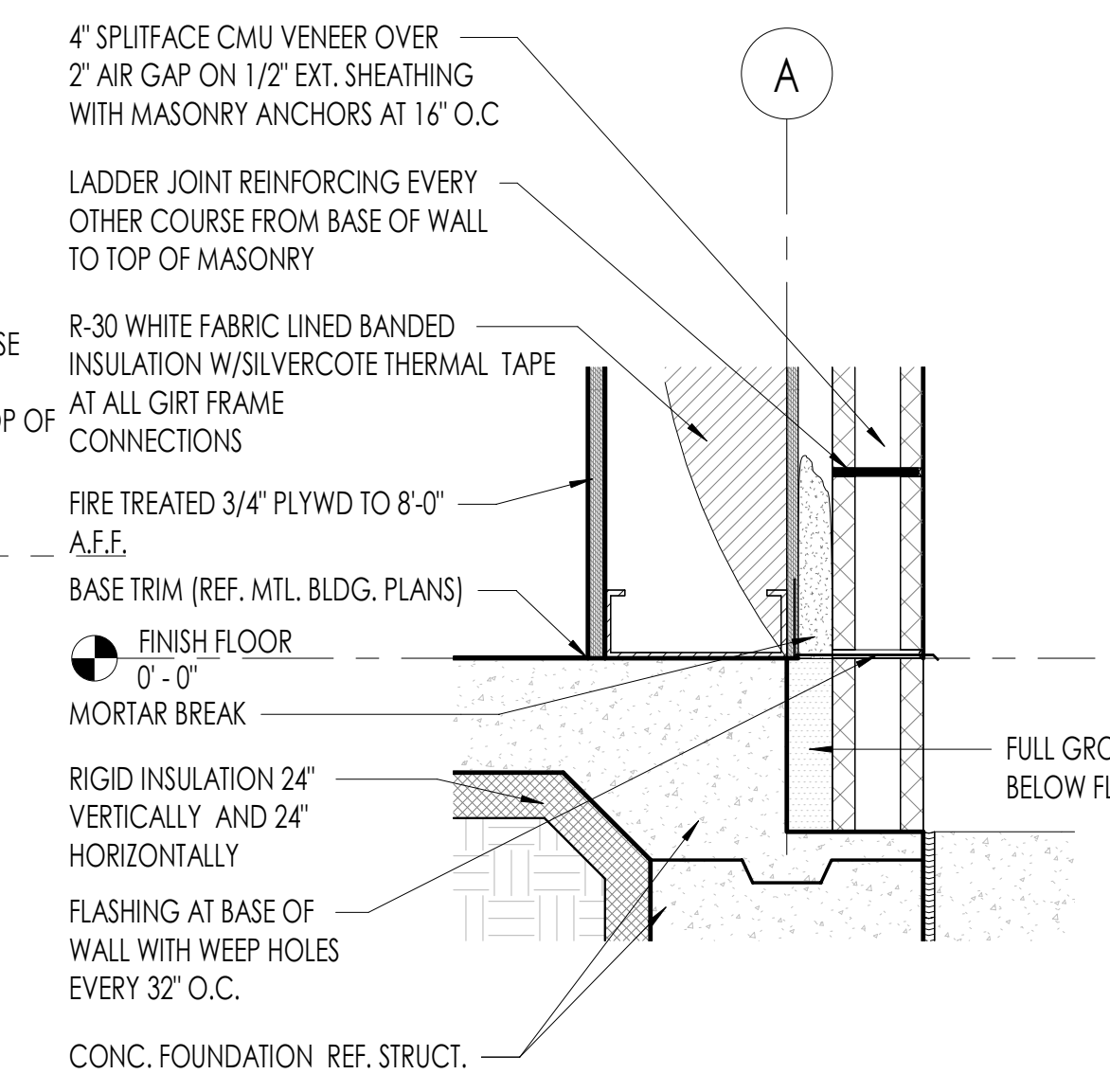
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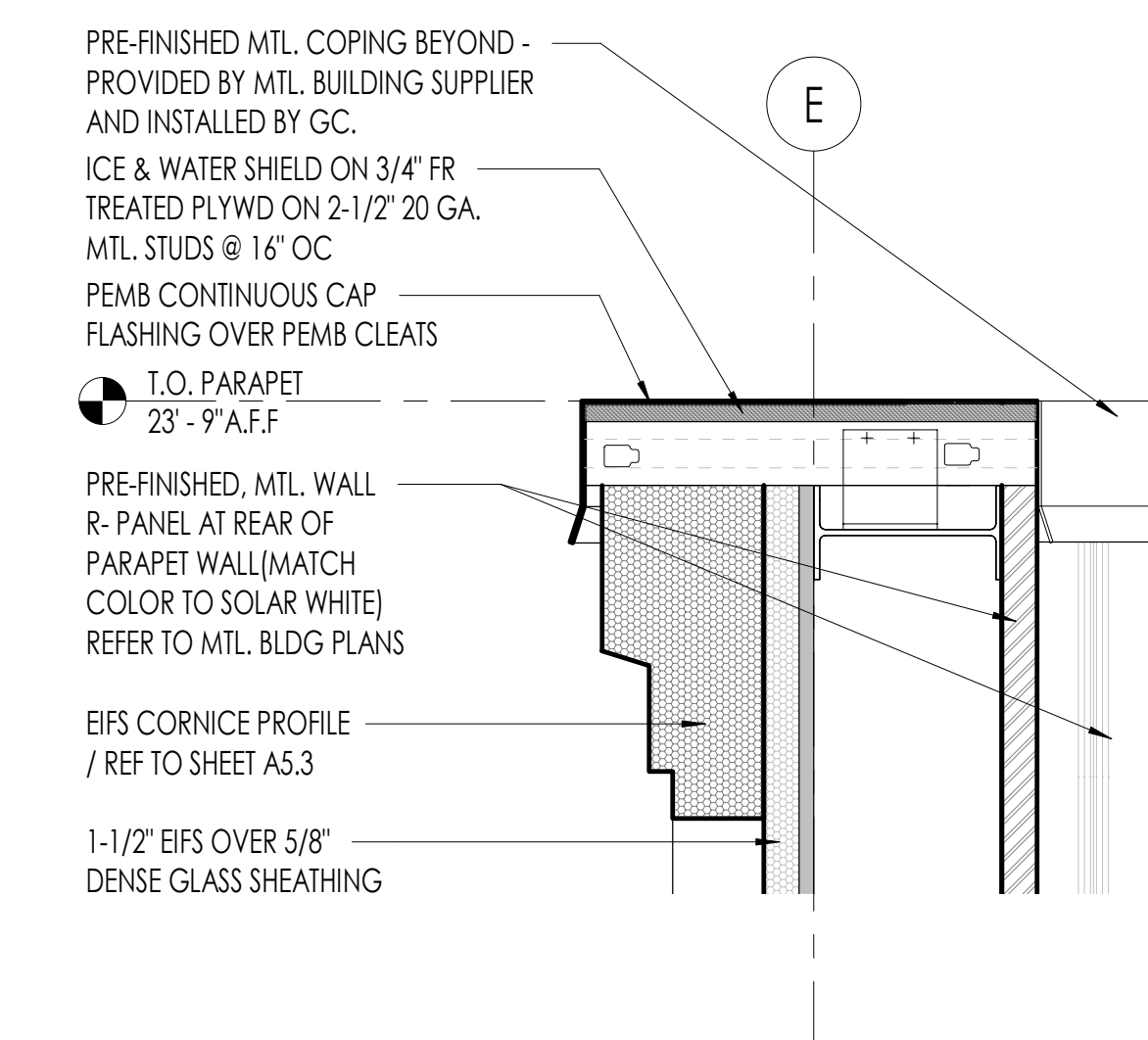
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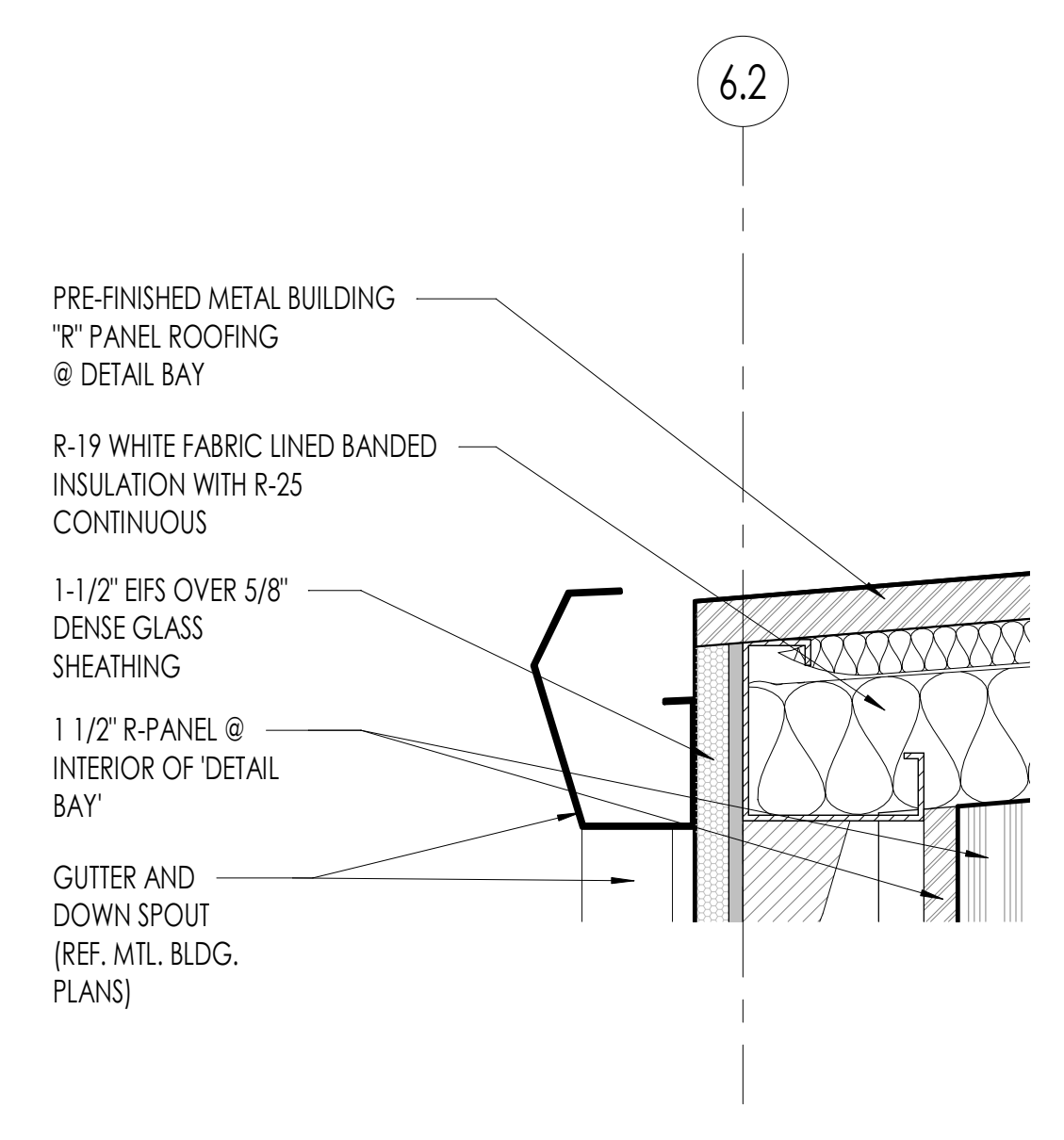
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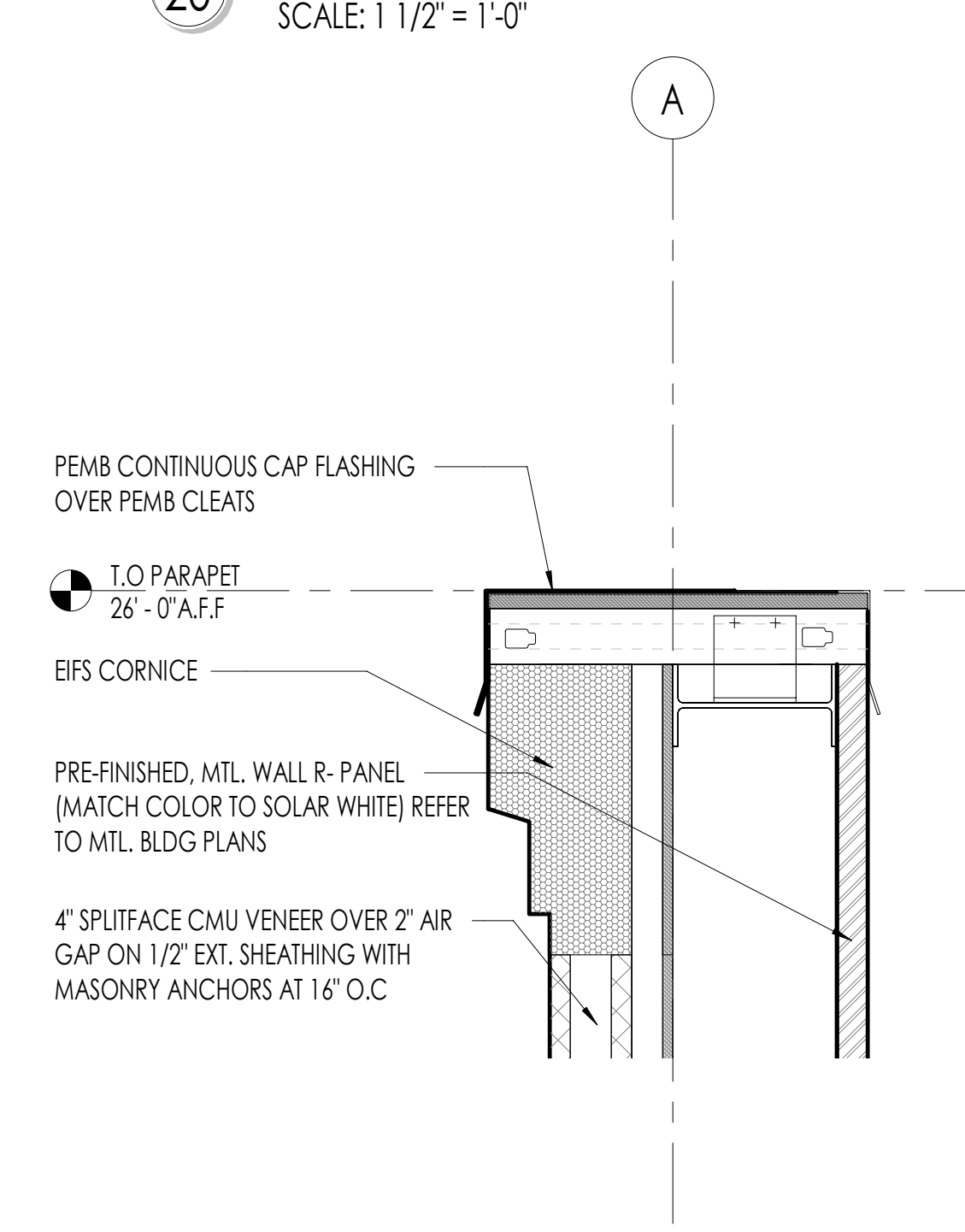
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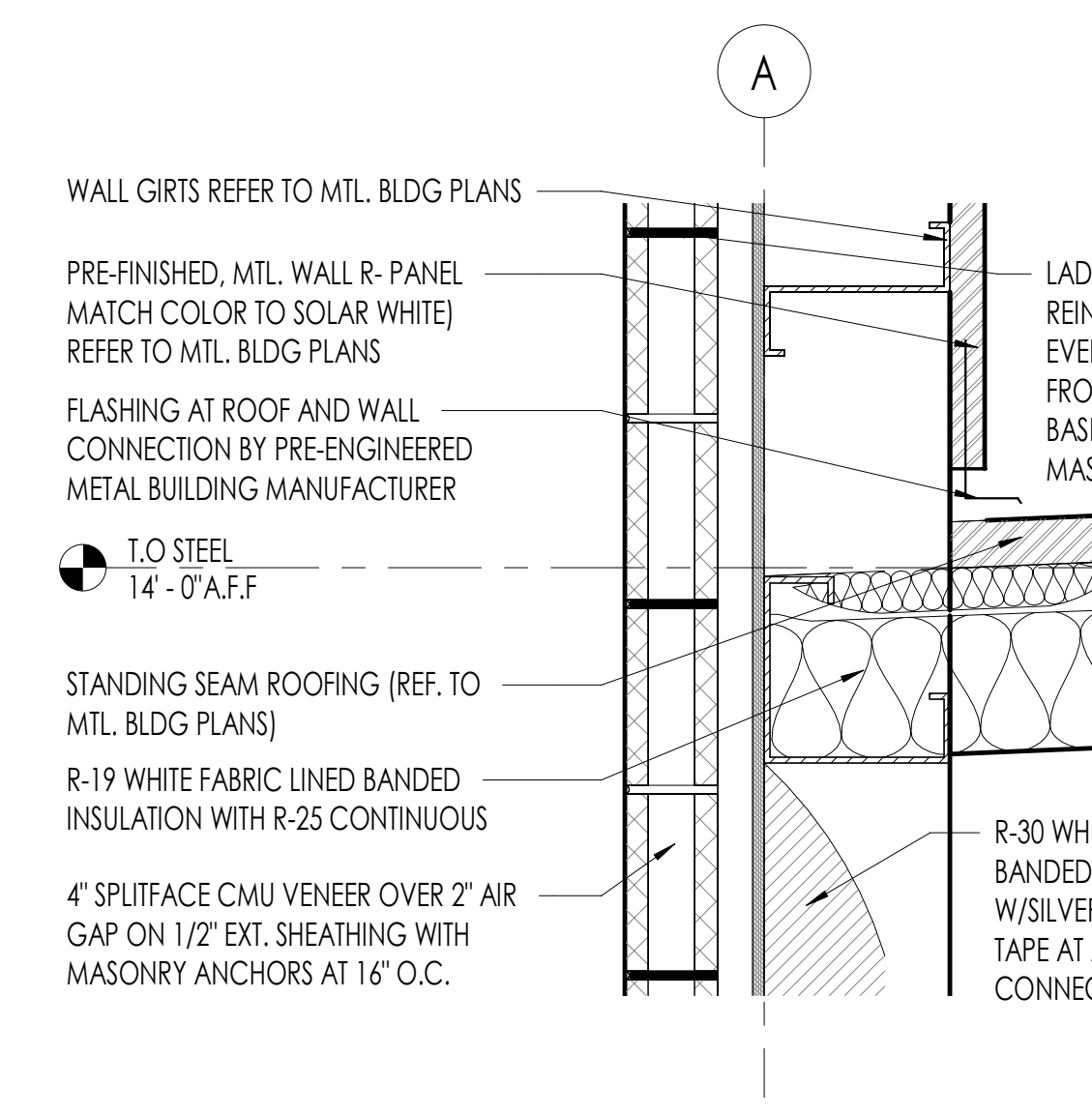
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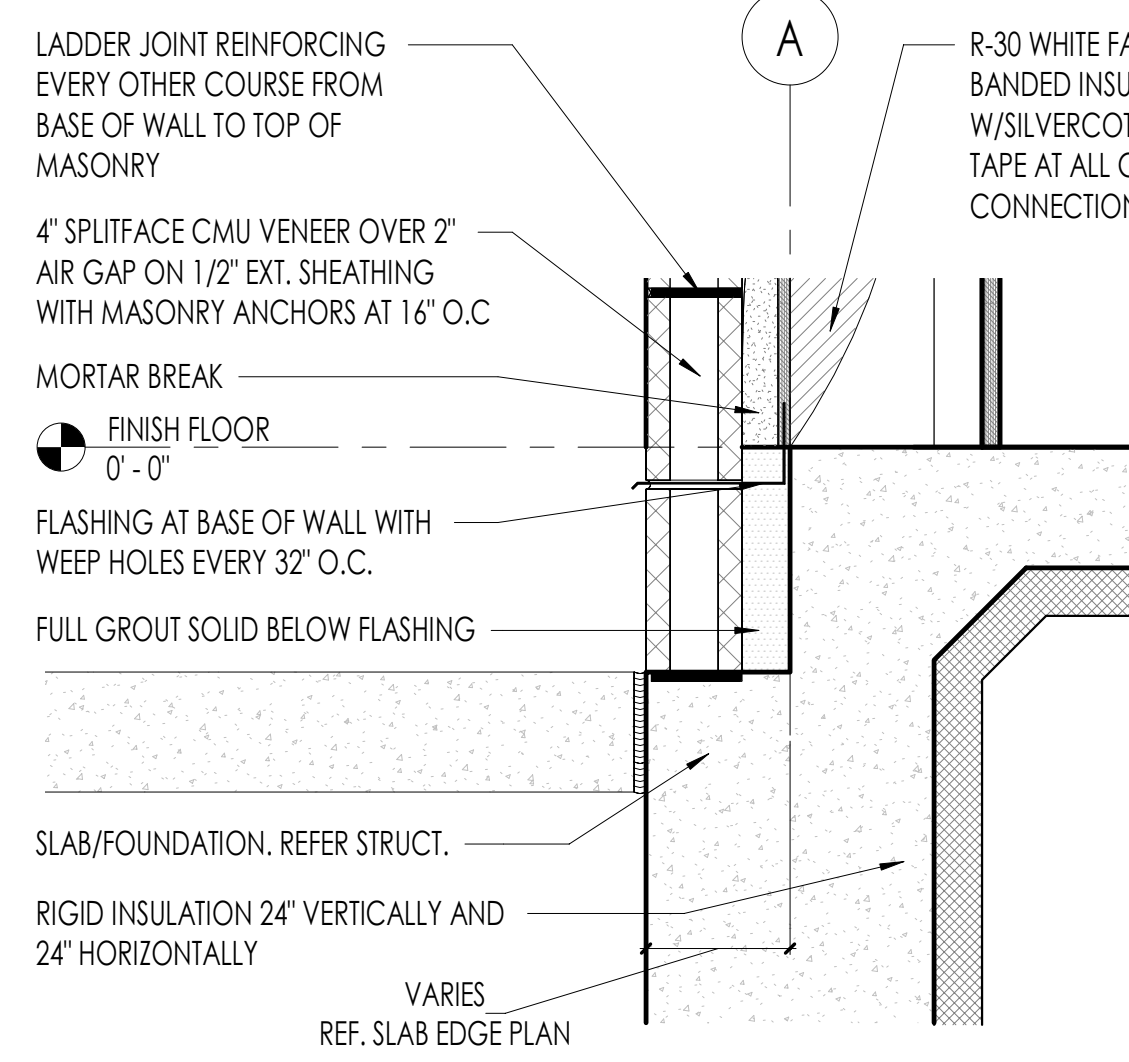
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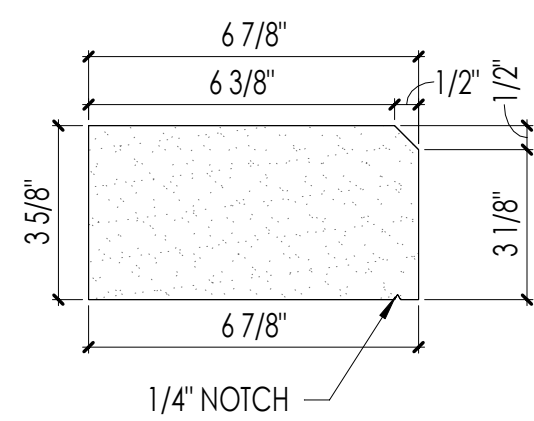
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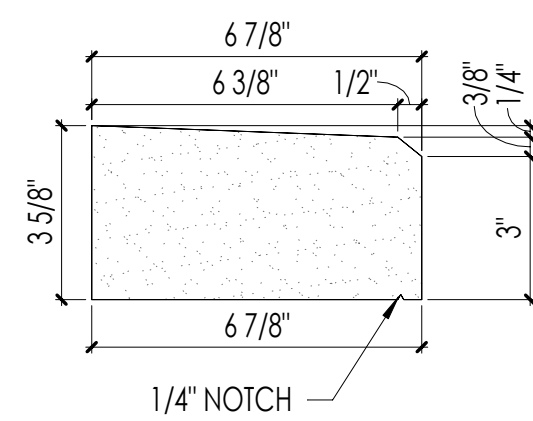
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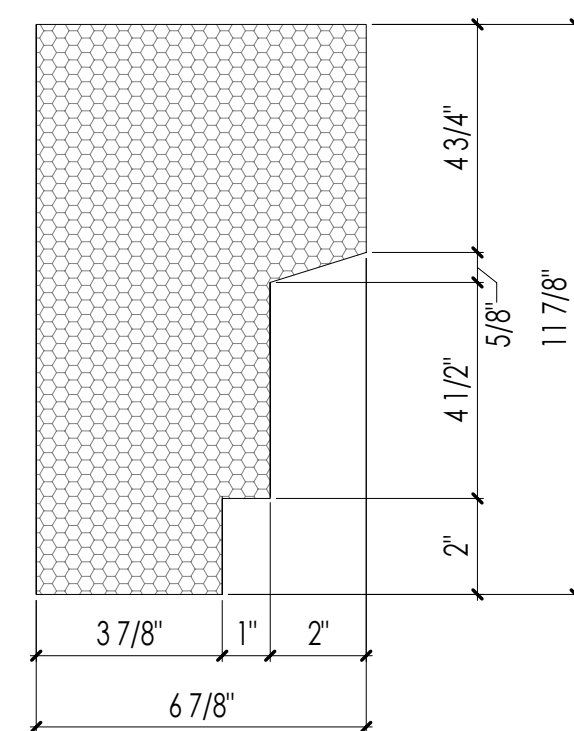
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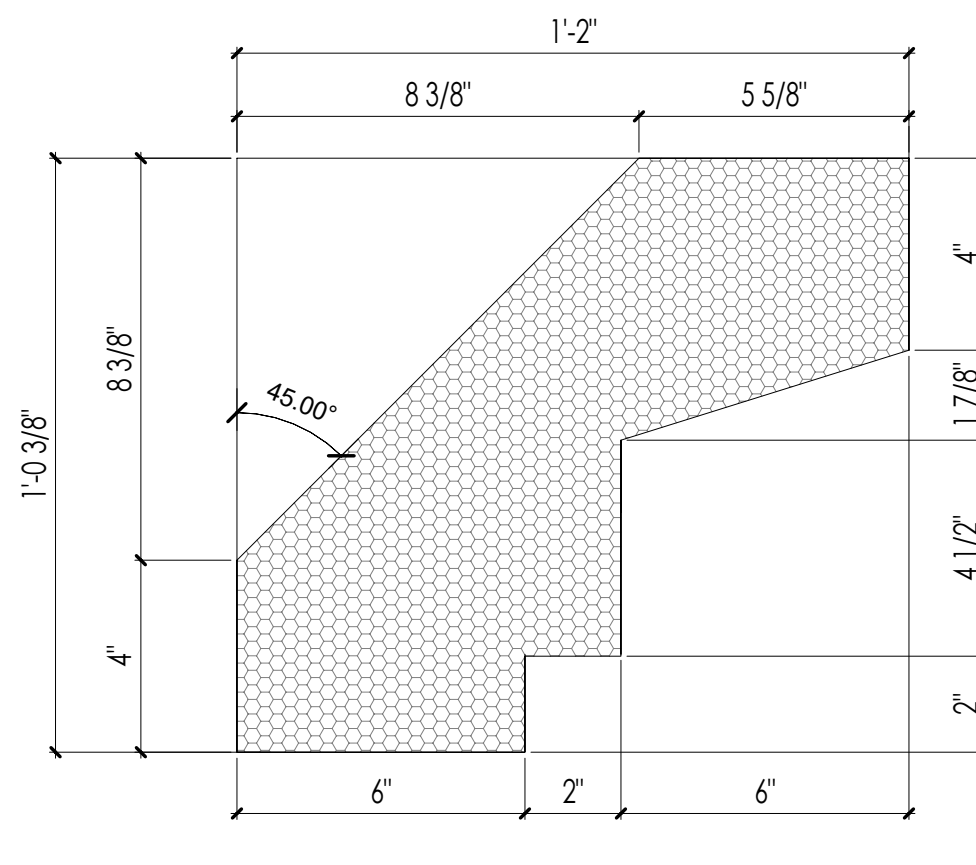
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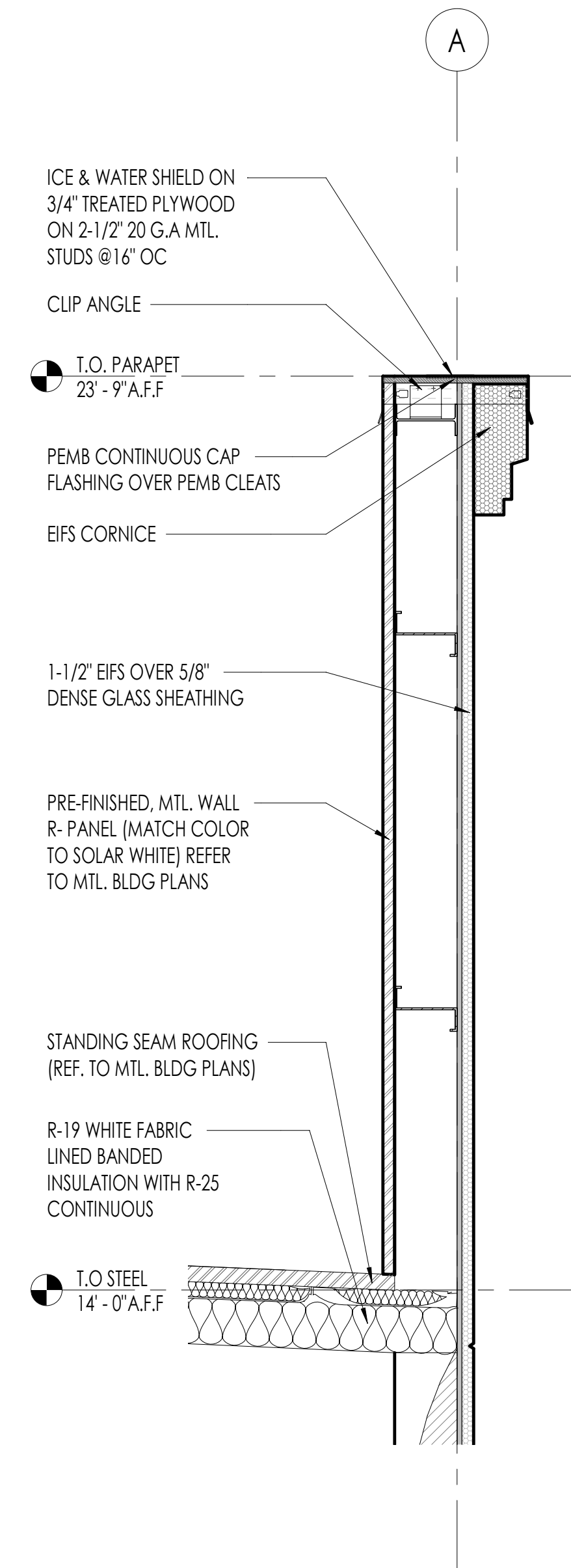
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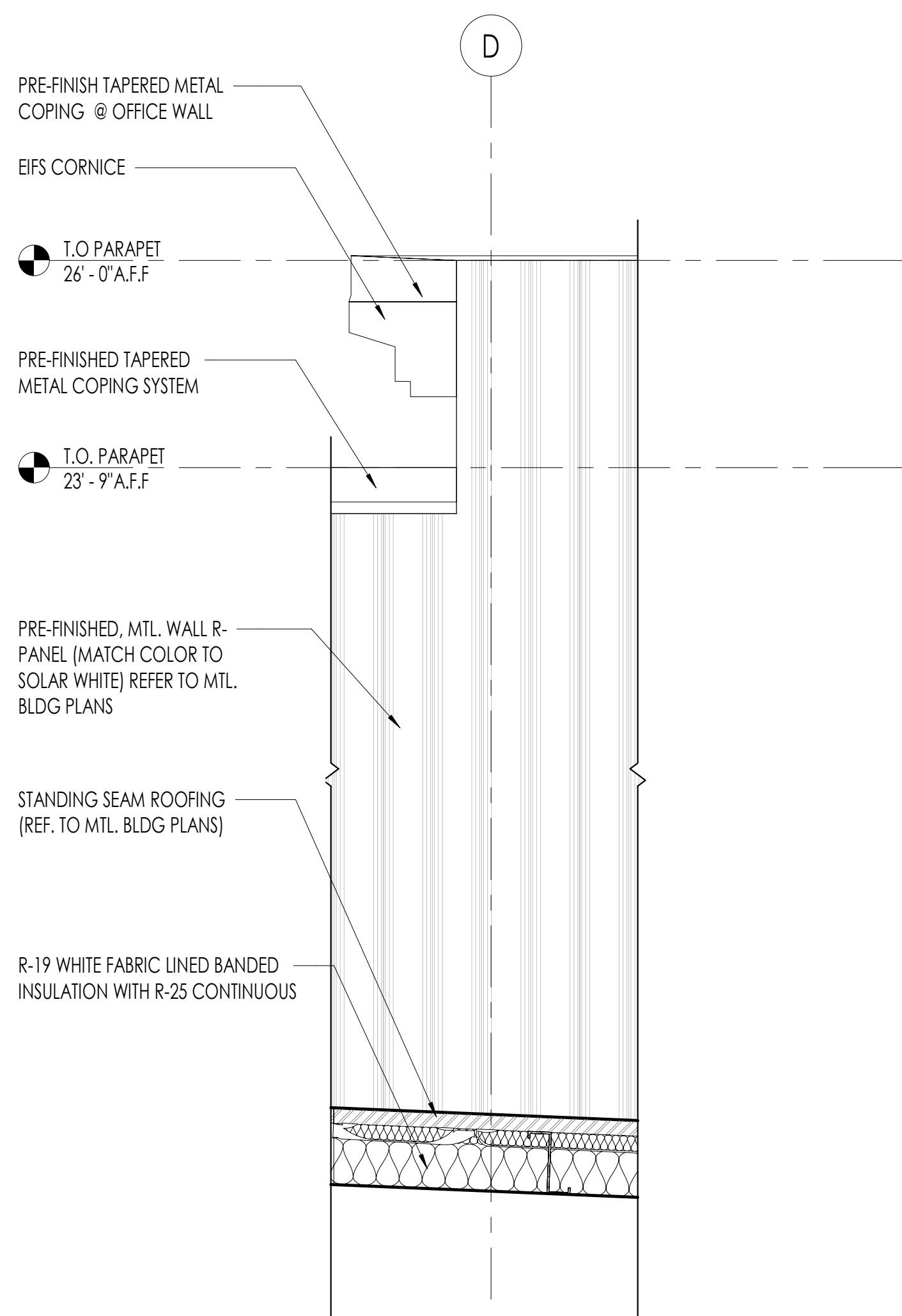
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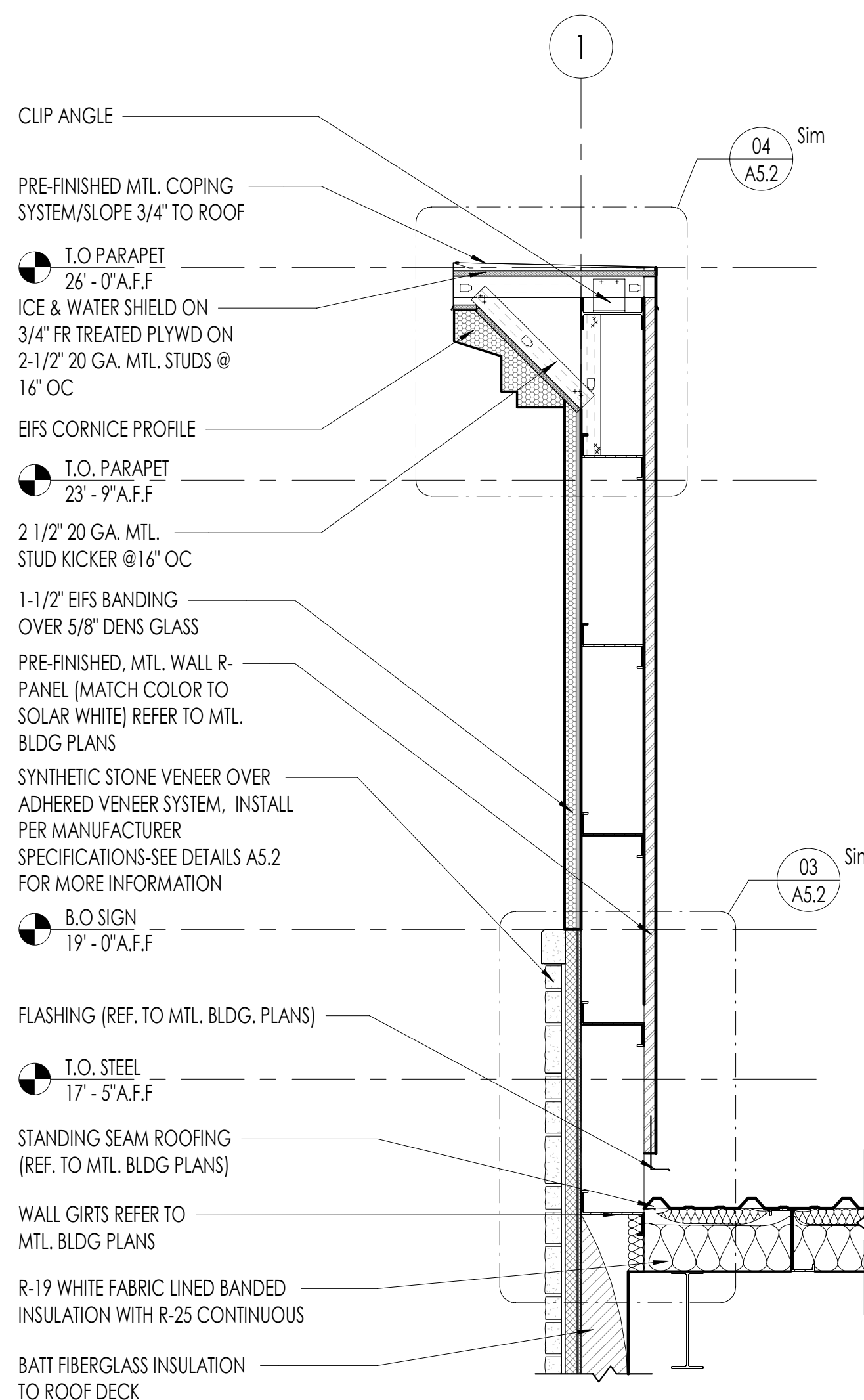
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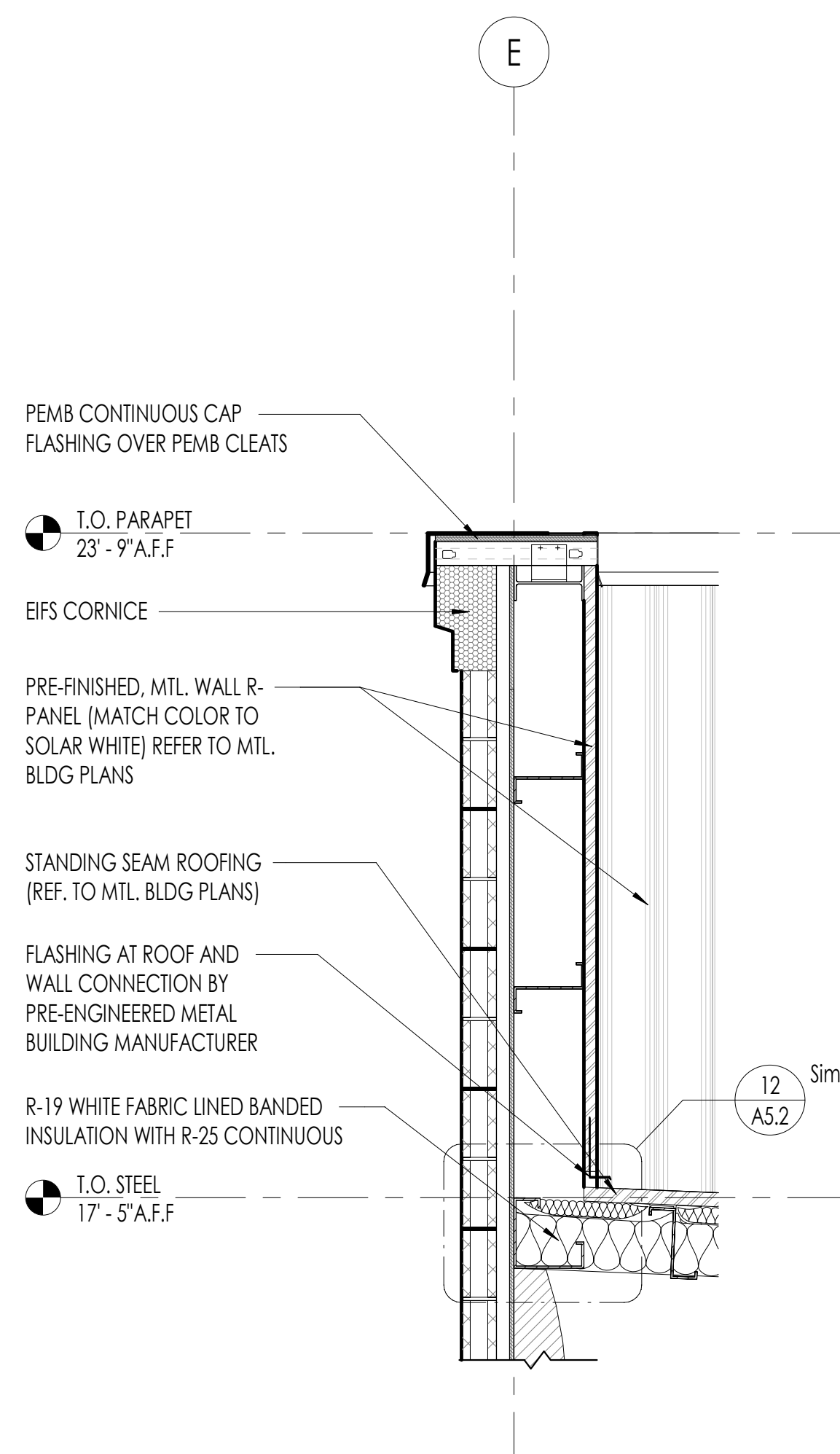
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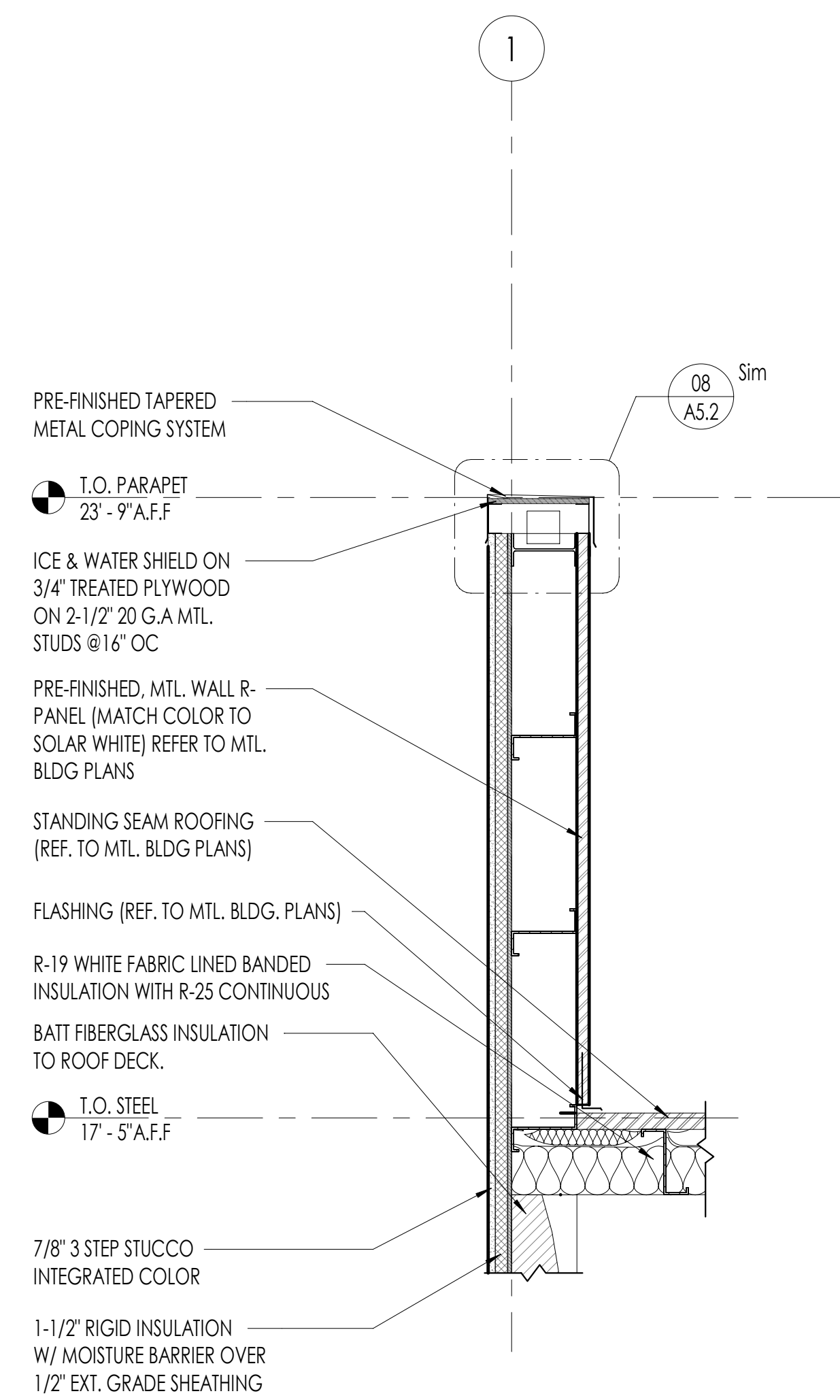
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SCALE: 3/4" = 1'-0"



03 PARAPET ENDCAP ELEVATION
SCALE: 3/4" = 1'-0"



02 PARAPET ENDCAP ELEVATION
SCALE: 3/4" = 1'-0"



01 PARAPET ENDCAP ELEVATION
SCALE: 3/4" = 1'-0"

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Parapet Details

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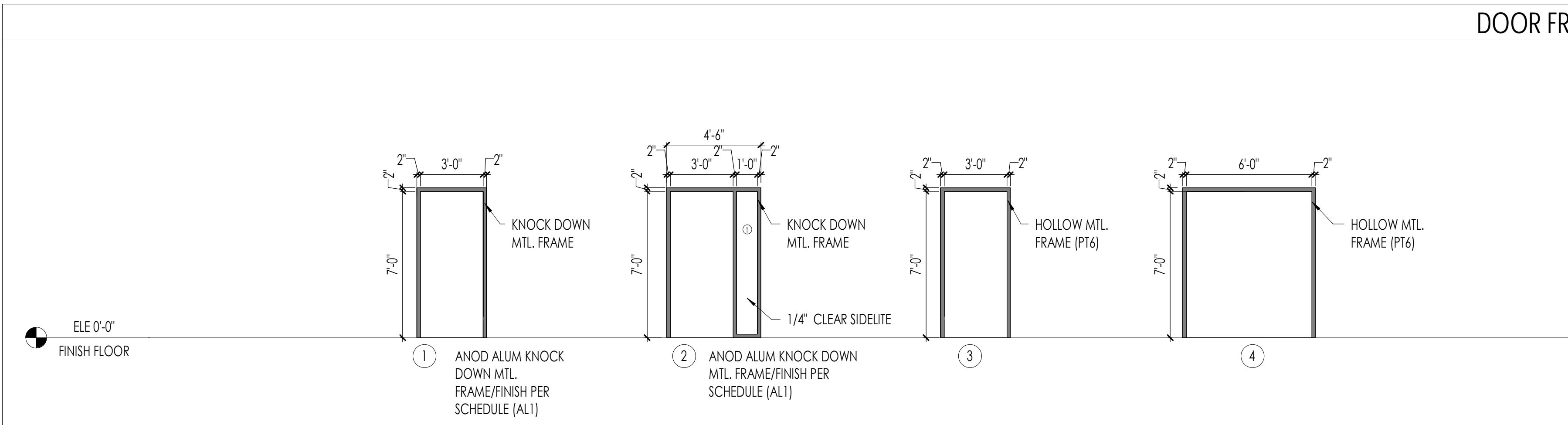
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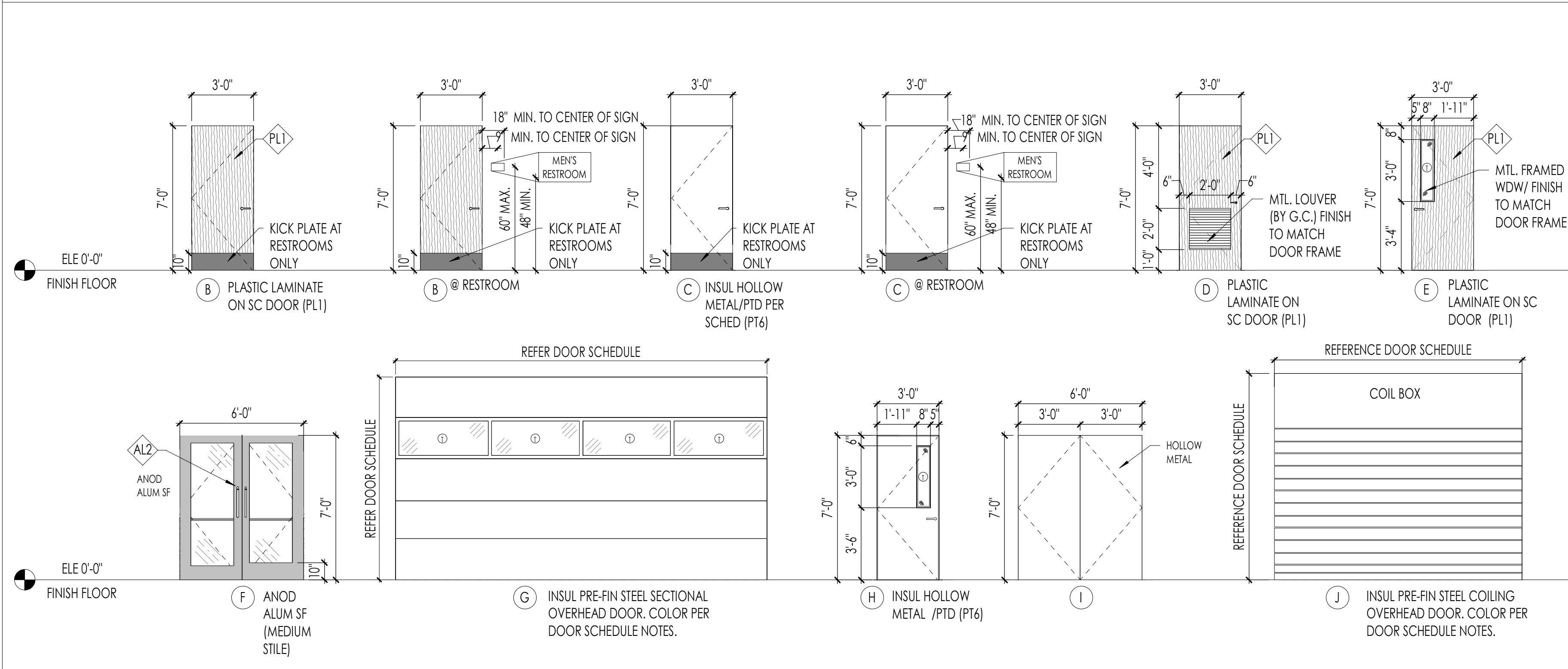
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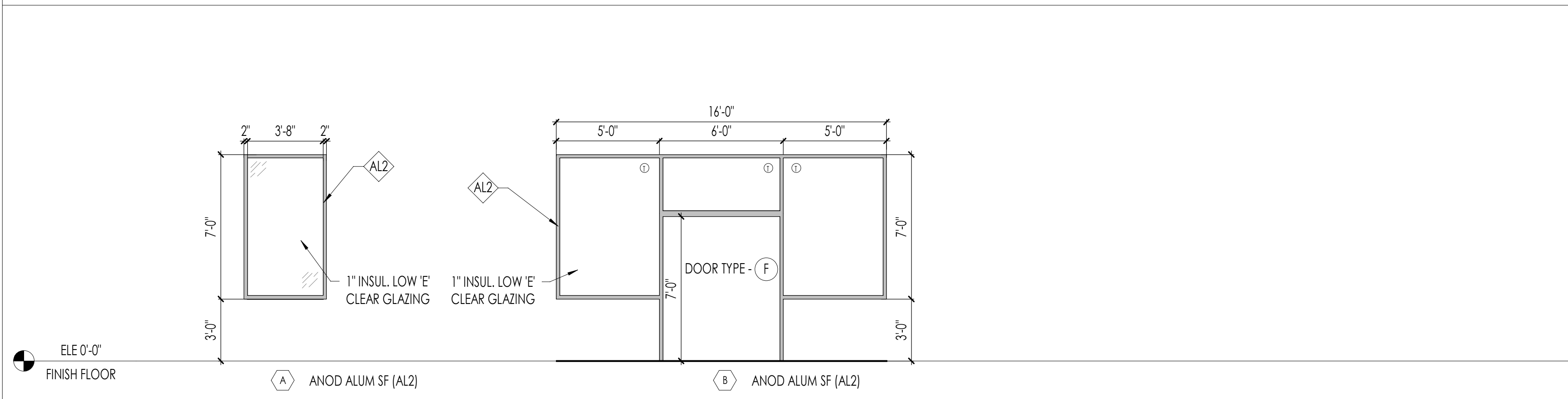
DOOR FRAME TYPES



DOOR TYPES



WINDOW FRAME TYPES



HARDWARE SCHEDULE

HA - HAGAR
AD - ADAMS RITE

HARDWARE SET #1 - STOREFRONT / ENTRY					HARDWARE SET #3 - FIRE RISER (ELEC RM) EXT. DOOR					HARDWARE SET #7 OFFICE TO SHOP				
6	HINGES (STEEL BASED)	BB1199 4 1/2X4 1/2 NRP	US10B	HA	3	HINGES (STEEL BASED)	BB1199 4 1/2 X 4 1/2 NRP	US32D	HA	3	HINGES	BB1279 4 1/2X4 1/2	US26D	HA
1	HEADER BOLT	40B5	-	AD	1	STOREROOM LOCK	3480 ARCH SFC	US26D	HA	1	PUSH PLATE	3056X16	US32D	HA
1	THREE POINT CONVERTER	4016	-	AD	1	CYLINDER CORE	3969	US26D	HA	1	DOOR PULL	H10L TYPE 5 MOUNTING	US32D	HA
1	TWO POINT CONVERTER	4015	-	AD	1	LATCH GUARD	341D	US32D	HA	1	CLOSER	5200	ALM	HA
1	DEADLOCK	MS1850S	313	AD	1	CLOSER	5200 HDCS	ALM	HA	1	WALL STOP	232W	US32D	HA
1	MORTISE CYLINDER HOUSING	3902 SFC X LAR	US10B	HA	1	THRESHOLD	520S N X LAR	MIL	HA	1	SEAL	726 X LAR	S	HA
1	CYLINDER GUARD	MS40X3	130	AD	1	RAIN DRIP	7175 + 4" DR. WIDTH	MIL	HA	1	DOOR SWEEP	750S N X LAR	CLR	HA
1	CYLINDER CORE	3969	US4	HA	1	WEATHERSTRIP	718S V X LAR	MIL	HA					
1	EXIT INDICATOR	4089	121	AD	2	EACH WEATHERSTRIP	881S N X LAR	MIL	HA					
2	DOOR PULL SETS	H22J	US10B	HA										
2	CLOSER	5200 HDCS SLC	DBZ	HA	HARDWARE SET #4 - INT. OFFICE DOORS					HARDWARE SET #8 - CLOSET				
1	THRESHOLD	4135XLAR	MIL	HA	3	HINGE	BB1279 4 1/2X4 1/2	US26D	HA	3	HINGE	BB1279 4 1/2X4 1/2	US26D	HA
1	DOOR SWEEP	750S N X LAR	DBA	HA	1	OFFICE LOCK	3450 ARC SFC	US26D	HA	1	PASSAGE SET	3410 ARC	US26D	HA
NOTE: WEATHER STRIPPING BY FRAME SUPPLIER. MEETING STILE ASTRAGALS BY DOOR SUPPLIER.					1	CYLINDER CORE	3969	US26D	HA	1	OVERHEAD STOP	7014 SRF	US32D	HA
					1	WALL STOP	236W	US32D	HA	3	DOOR SILENCER	307D	GRAY	HA
HARDWARE SET #2 - SHOP DOORS					3	DOOR SILENCER	307D	GRAY	HA					
3	HINGES (STEEL BASED)	BB1199 4 1/2X4 1/2 NRP	US32D	HA	HARDWARE SET #5 - IT-ROOM					HARDWARE SET #9 - OFFICE RESTROOMS				
1	EXIT DEVICE	4501 RIM	US32D	HA	3	HINGE	BB12794 1/2X4 1/2	US26D	HA	3	HINGE	BB1279 4 1/2X4 1/2	US26D	HA
1	EXIT DEVICE TRIM	45NL ARC	US26D	HA	1	STOREROOM LOCK	3480 ARC SFC	US26D	HA	1	PRIVACY SET (IND)	3896 SECT ARC	US26D	HA
1	RIM CYLINDER	3901	US26D	HA	1	CYLINDER CORE	3969	US26D	HA	1	CLOSER	5200	ALM	HA
1	CLOSER (OMIT AT PARTS DR.)	5200 HDCS SLC	ALM	HA	1	CLOSER	5200	ALM	HA	1	KICK PLATE	190S 8" X 2" LDW	US32D	HA
1	THRESHOLD	520S N X LAR	MIL	HA	1	WALL STOP	232W	US32D	HA	1	MOP PLATE	190S 4" X 1" LDW	US32D	HA
1	RAIN DRIP	717S + 4" DR WD	MIL	HA	3	DOOR SILENCER	307D	GRAY	HA	1	WALL STOP	232W	US32D	HA
1	WEATHERSTRIP	718S V X LAR	MIL	HA	HARDWARE SET #6 - BREAK ROOM DOOR					3	DOOR SILENCER	307D	GRAY	HA
2	EACH WEATHERSTRIP	881S N X LAR	MIL	HA										
SHOP DOOR LEADING TO PARTS WILL NOT HAVE PANIC HARDWARE. USE THE FOLLOWING INSTEAD OF EXIT DEVICE. EXIT DEVICE TRIM AND RIM CYLINDER:					3	HINGES	BB1279 4 1/2X4 1/2	US26D	HA					
					1	PASSAGE SET	3410 ARC	US26D	HA					
					1	CLOSER	5200	ALM	HA					
					1	WALL STOP	232W	US32D	HA					
					3	DOOR SILENCER	307D	GRAY	HA					

EXIT DEVICE TRIM		45NL ARC	US26D	HA	3	HINGE	BB1279 4 1/2X4 1/2	US26D	HA	3	HINGE	BB1279 4 1/2X4 1/2	US26D	HA
1	RIM CYLINDER	3901	US26D	HA	1	STOREROOM LOCK	3480 ARC SPIC	US26D	HA	1	PRIVACY SET (IND)	3896 SECT ARC	US26D	HA
1	CLOSER (OMIT AT PARTS DR.)	5200 HDCS SLC	ALM	HA	1	CYLINDER CORE	3969	US26D	HA	1	CLOSER	5200	ALM	HA
1	THRESHOLD	520S N X L AR	MIL	HA	1	CLOSER	5200	ALM	HA	1	KICK PLATE	190S 8" X 2" LDW	US32D	HA
1	RAIN DRIP	717S + 4" DR WD	MIL	HA	1	WALL STOP	232W	US32D	HA	1	MOP PLATE	190S 4" X 1" LDW	US32D	HA
1	WEATHERSTRIP	718S V X L AR	MIL	HA	3	DOOR SILENCER	307D	GRAY	HA	1	WALL STOP	232W	US32D	HA
2	EACH WEATHERSTRIP	881S N X L AR	MIL	HA	HARDWARE SET #6 - BREAK ROOM DOOR					3	DOOR SILENCER	307D	GRAY	HA
SHOP DOOR LEADING TO PARTS WILL NOT HAVE PANIC HARDWARE. USE THE FOLLOWING INSTEAD OF EXIT DEVICE, EXIT DEVICE TRIM AND RIM CYLINDER.														
3	HINGES					BB1279 4 1/2X4 1/2	US26D	HA						
3	PRIVACY SET					3480 ARC SPIC	US26D	HA						

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2071

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Revisions:

1

01.07.2022

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Door and Window Schedules

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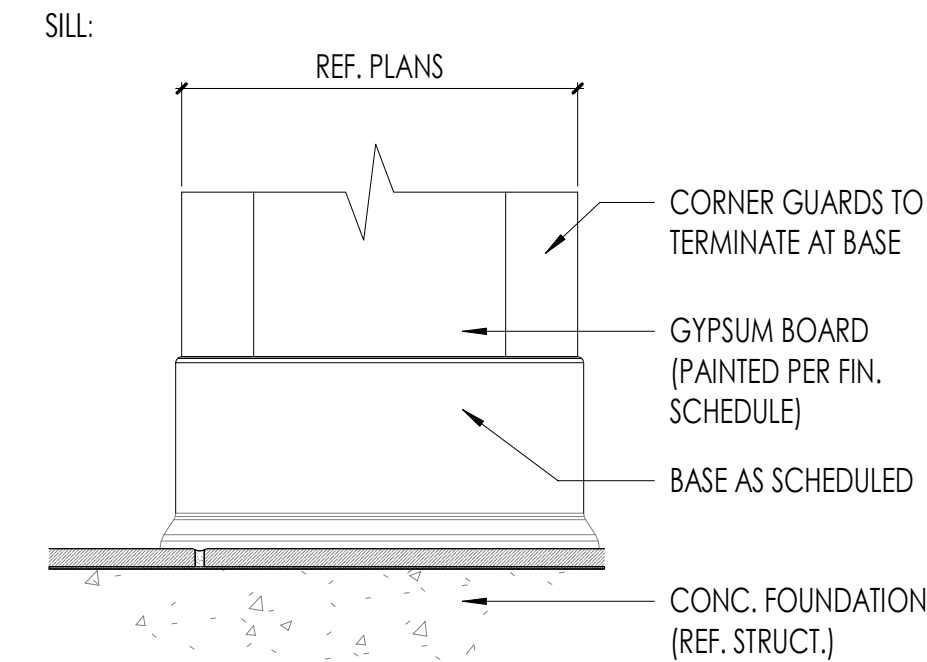
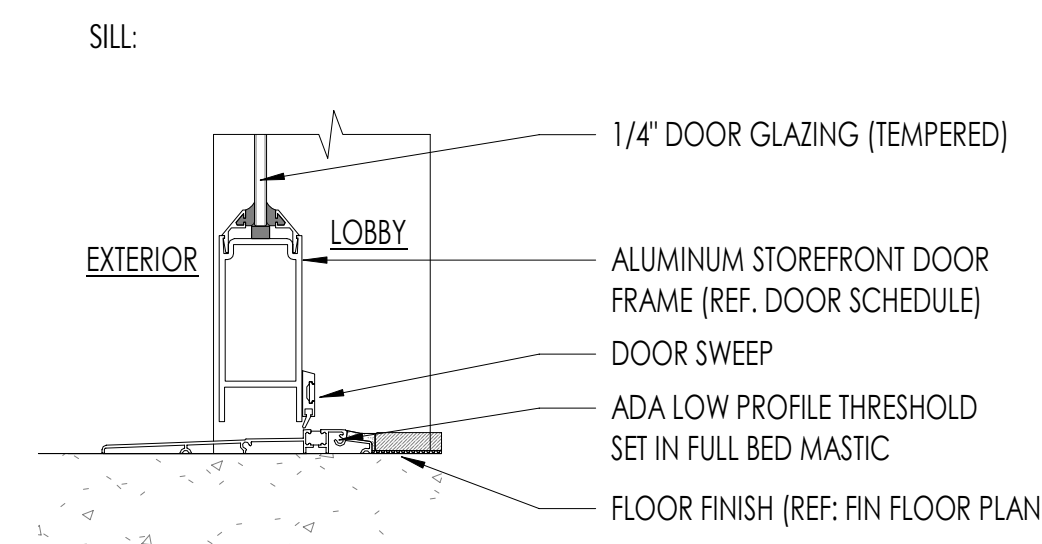
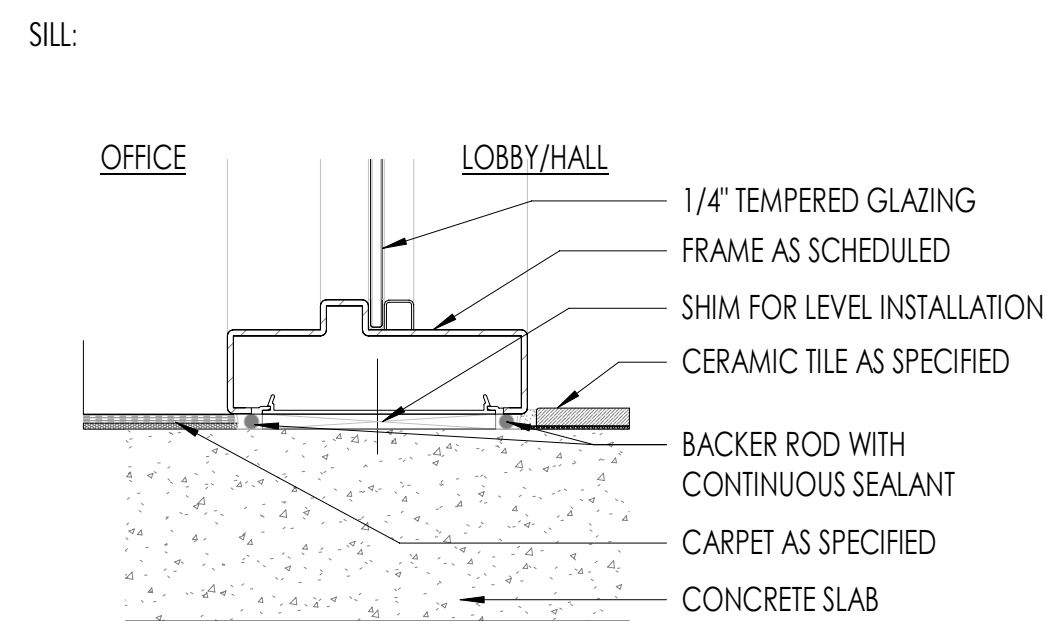
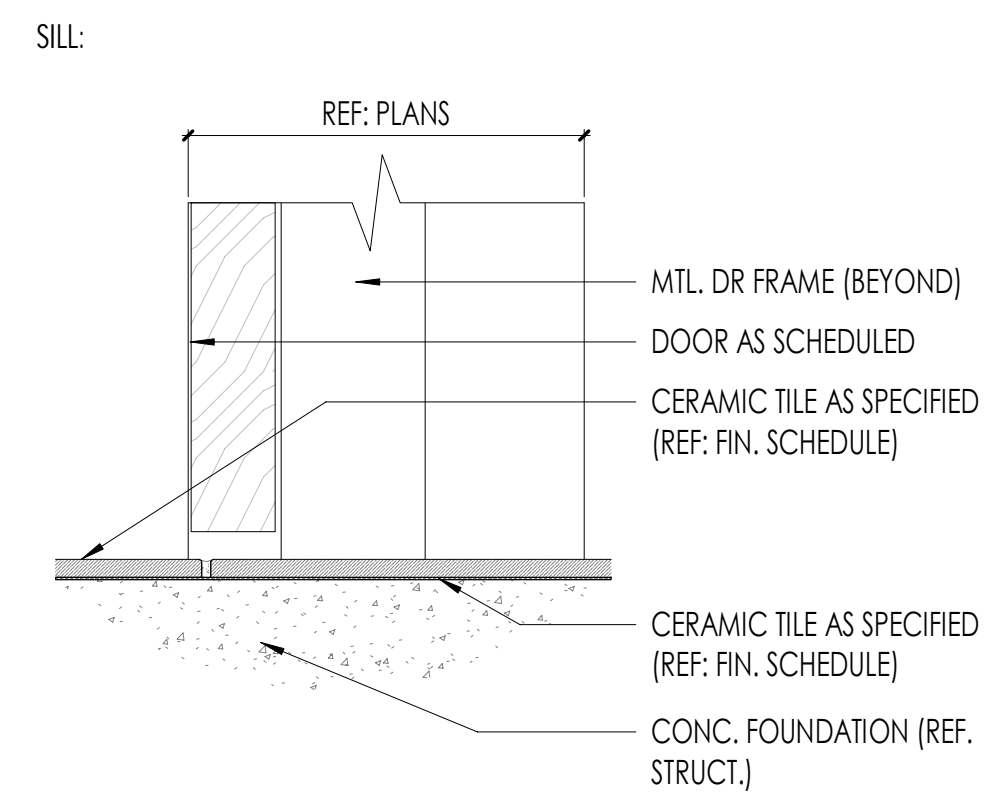
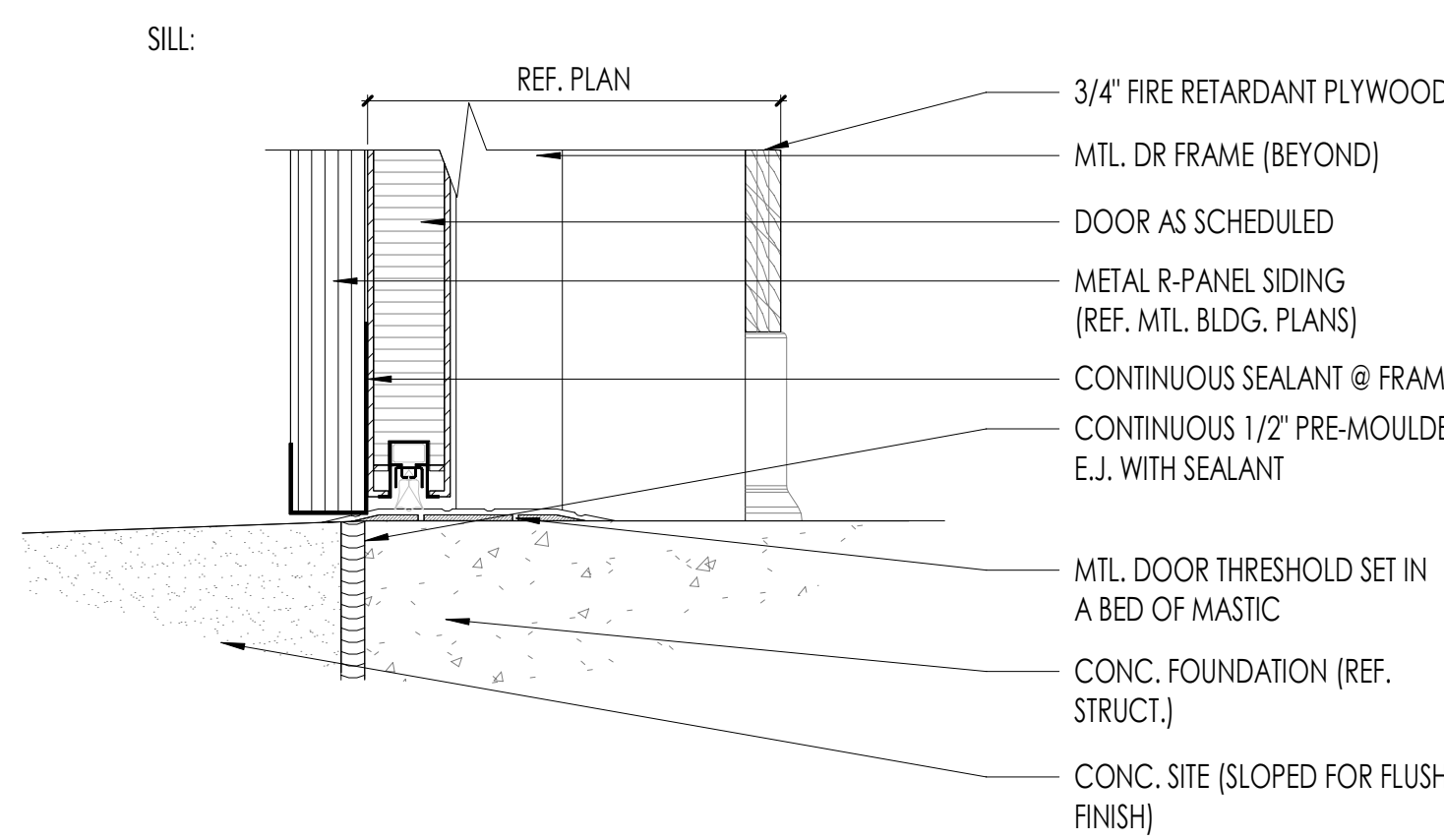
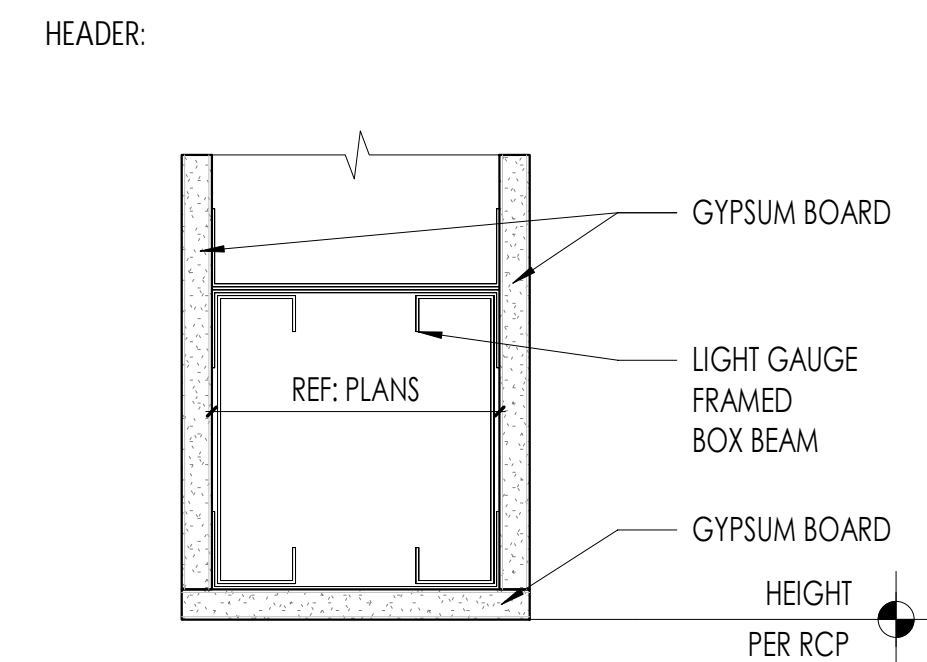
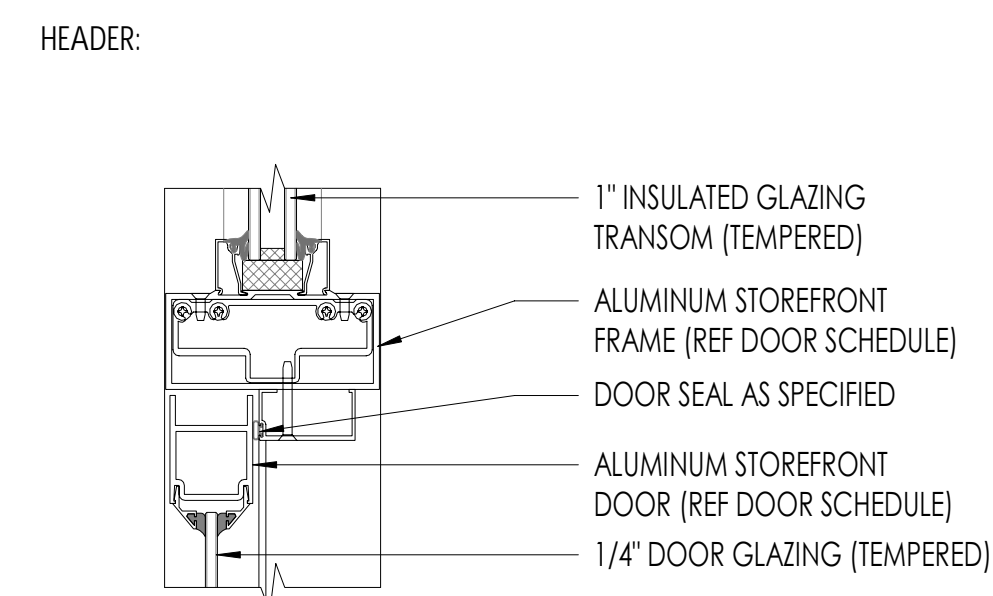
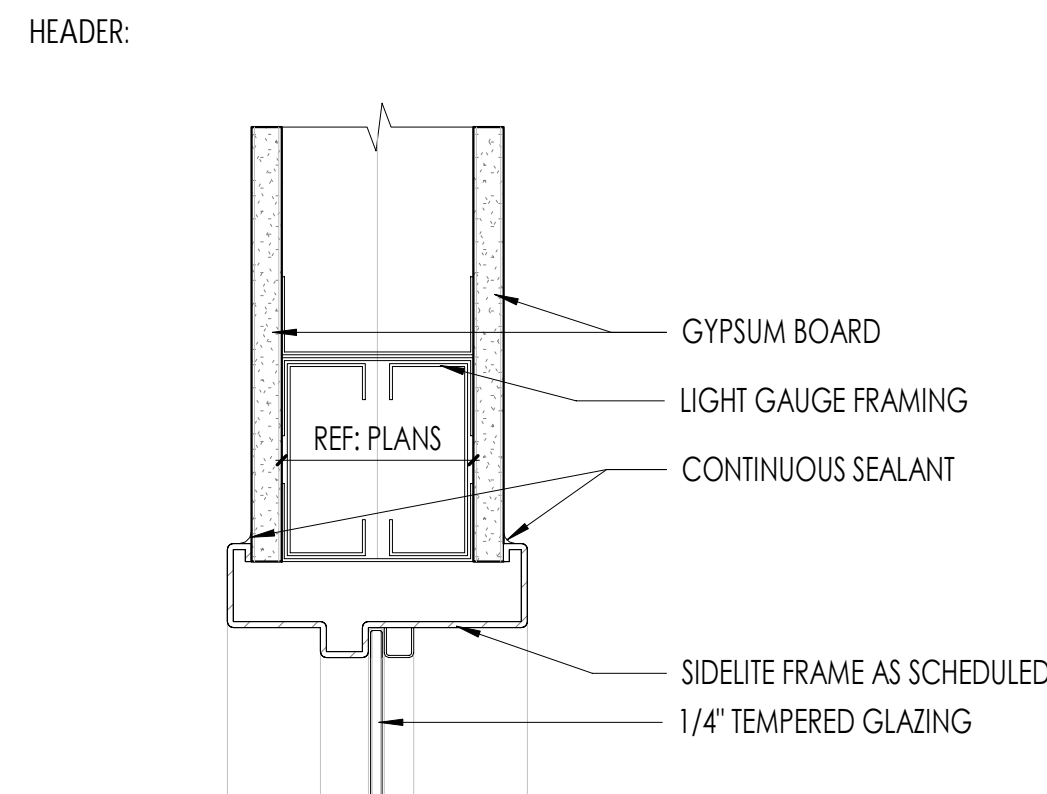
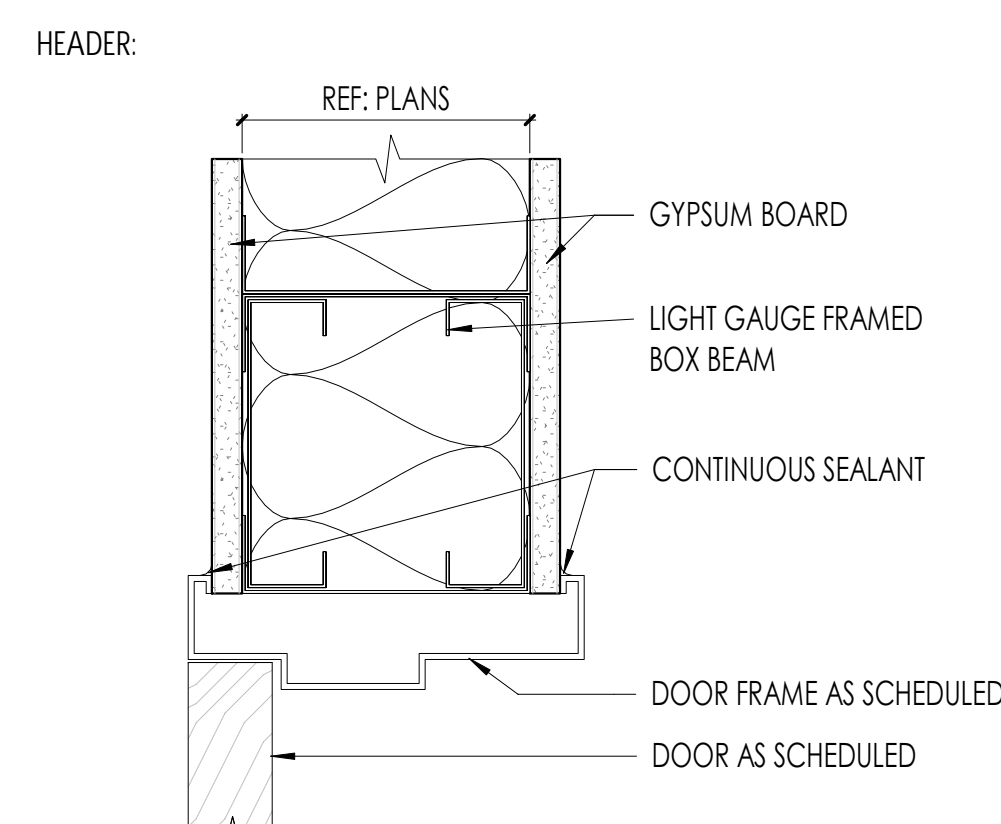
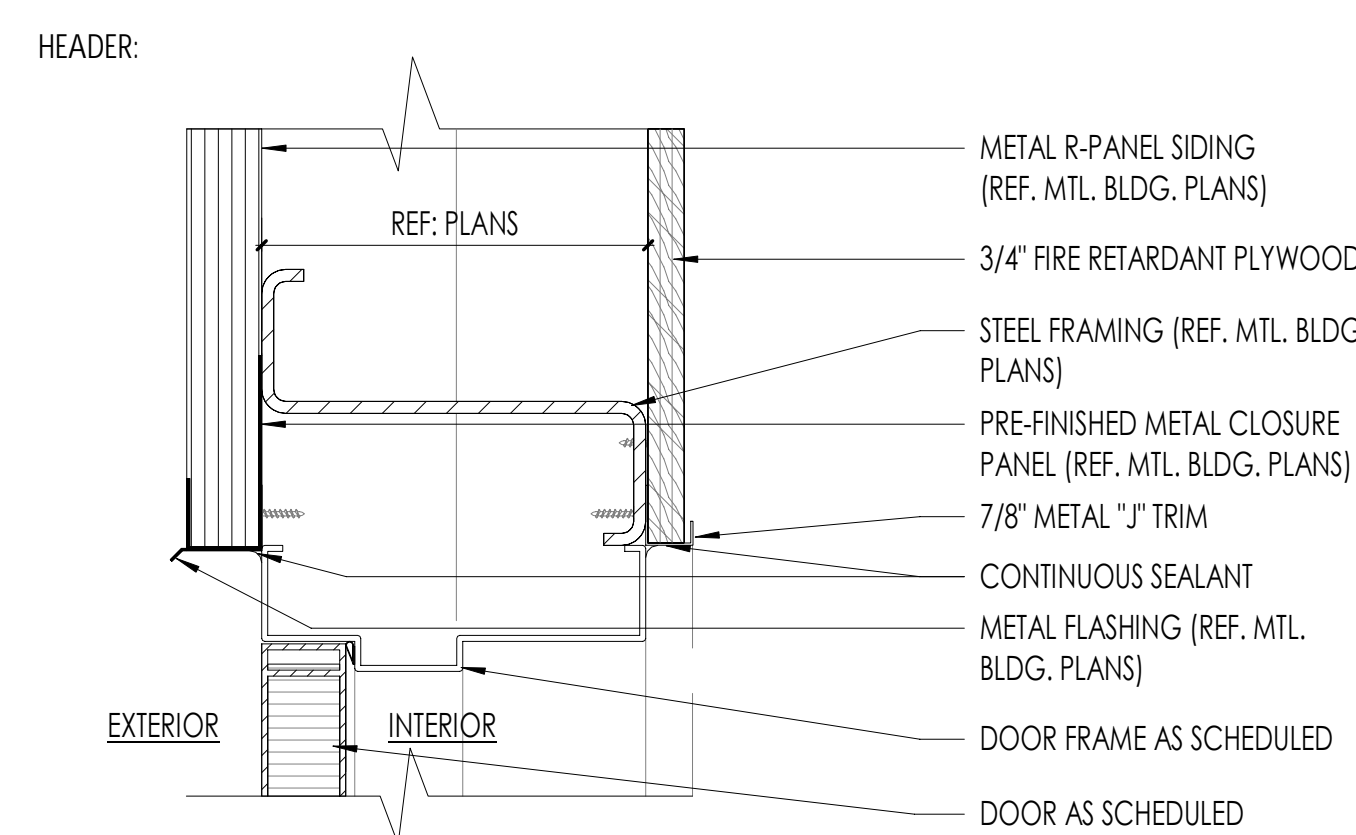
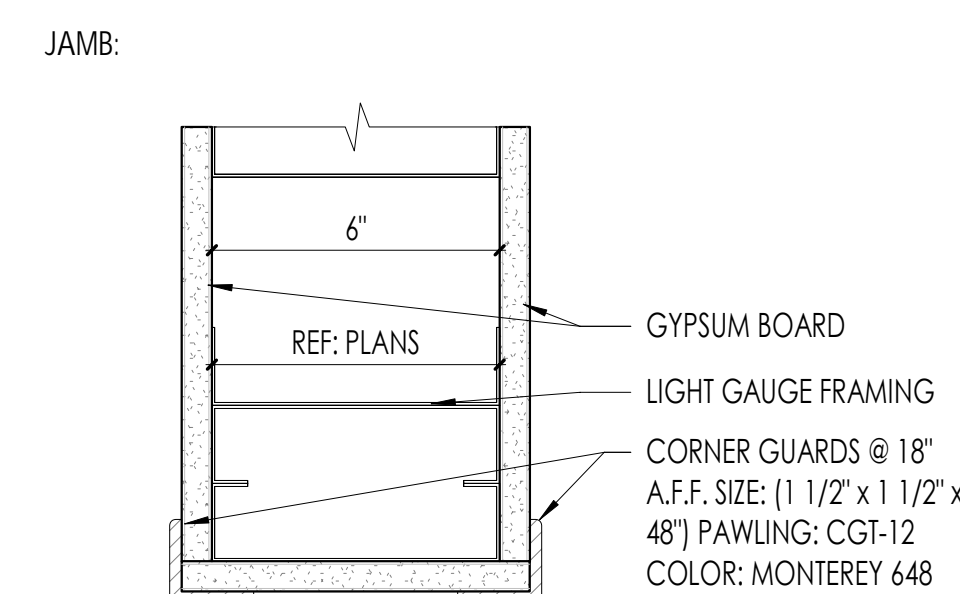
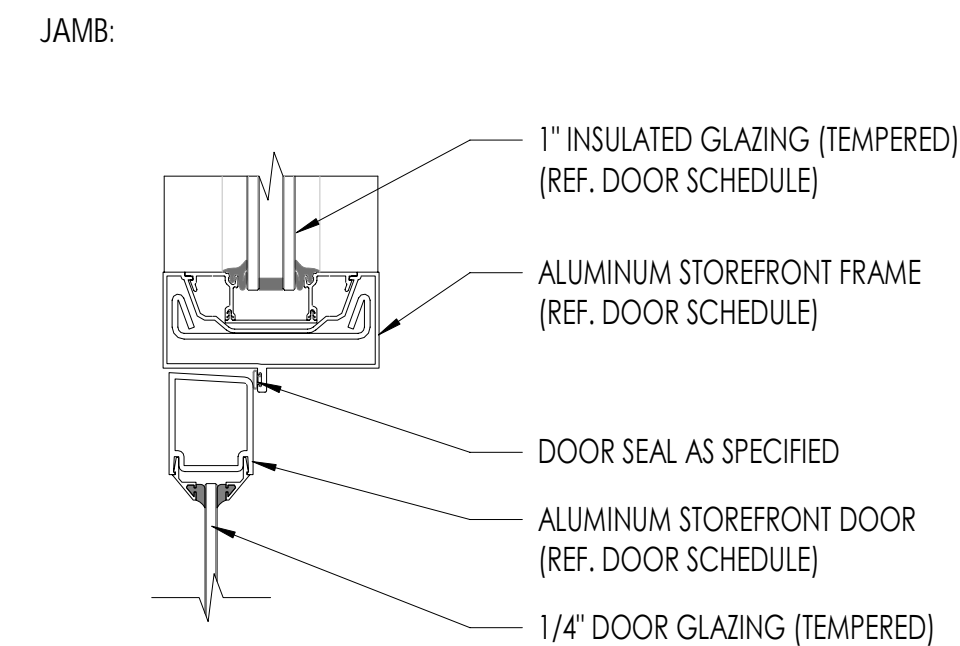
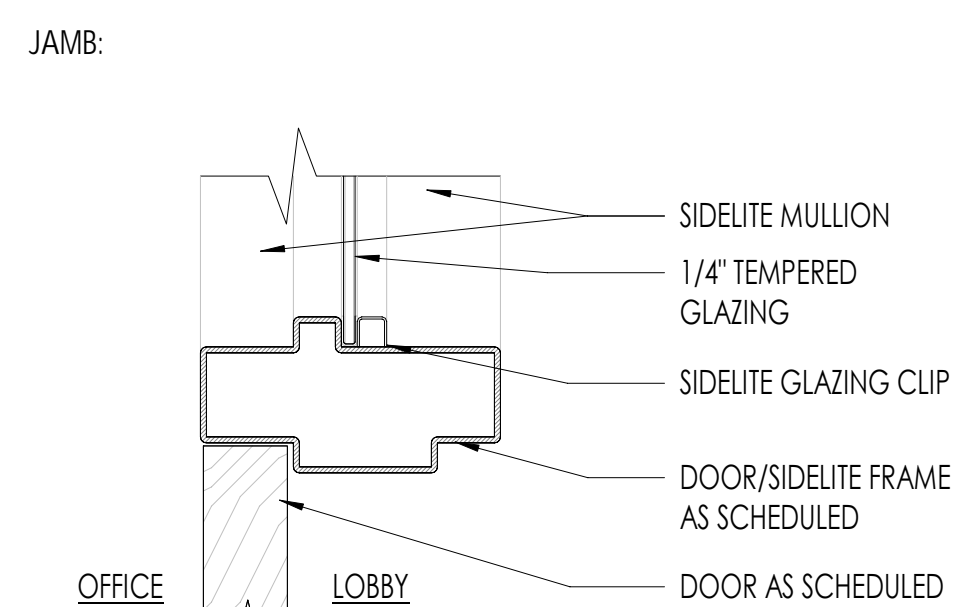
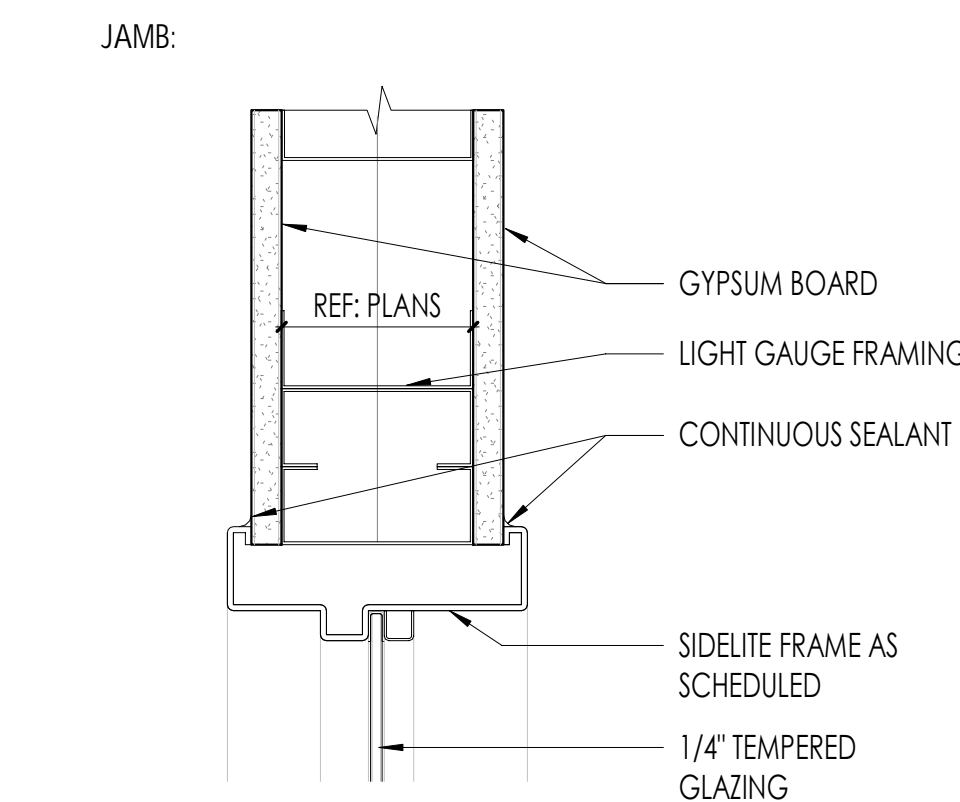
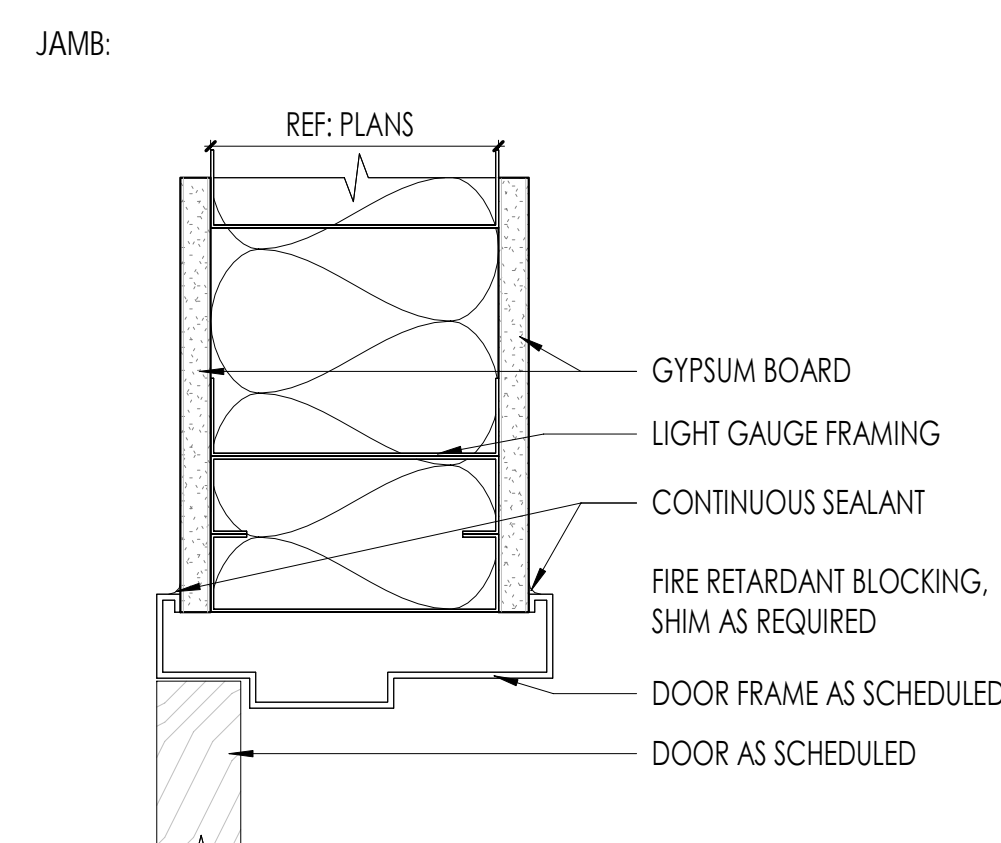
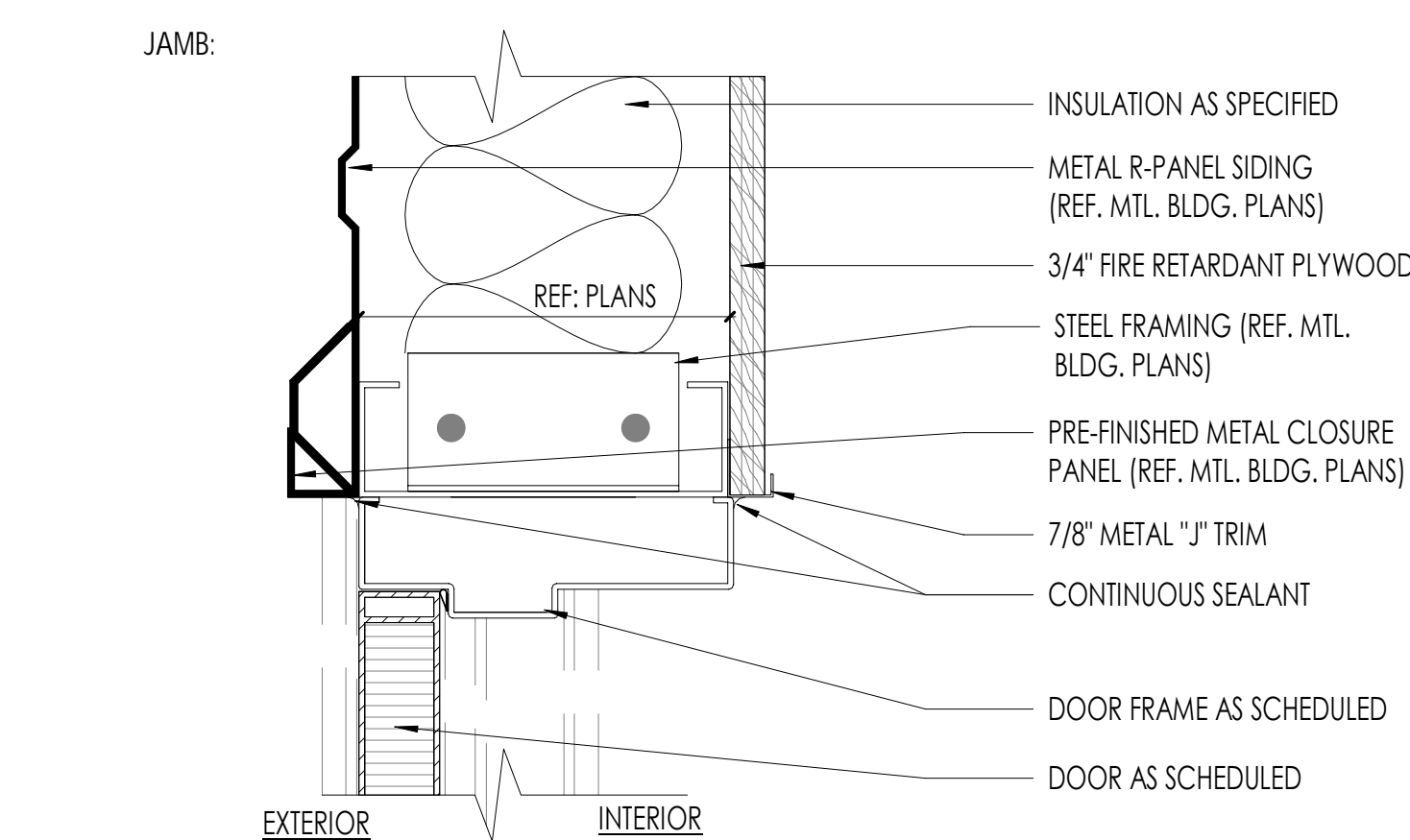
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05 EXTERIOR DOOR
3"=1'-0"

04 INTERIOR DOOR
3"=1'-0"

03 INTERIOR SIDELIGHT
3"=1'-0"

02 STOREFRONT
3"=1'-0"

01 CASSED OPENING
3"=1'-0"

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CHAPTER 3: BUILDING BLOCKS

302 Floor or Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed exposed edge. Carpet edge trim shall comply with 303.

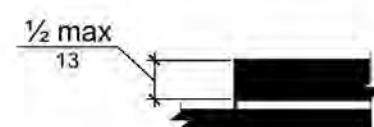


Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

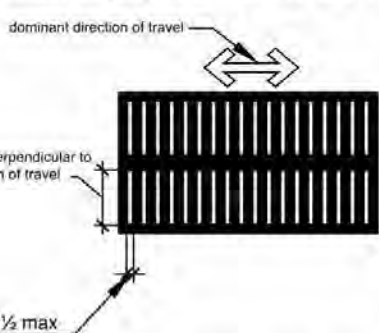


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.



Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

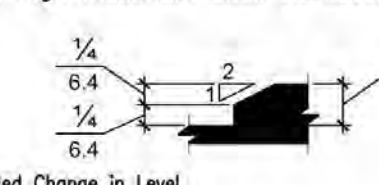


Figure 303.3 Beveled Change in Level

304 Turning Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

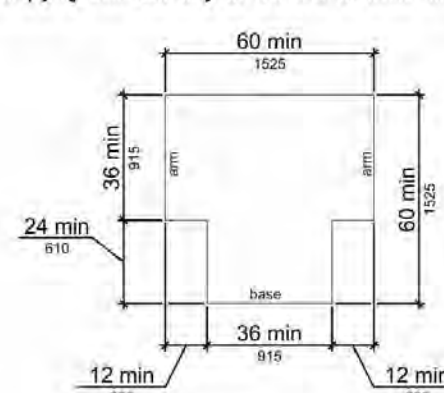


Figure 304.3.2 T-Shaped Turning Space

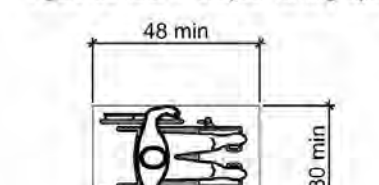


Figure 305.3 Clear Floor or Ground Space

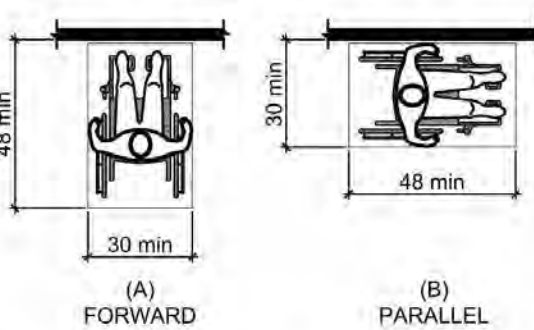


Figure 305.5 Position of Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm) wide minimum where the depth exceeds 24 inches (610 mm).

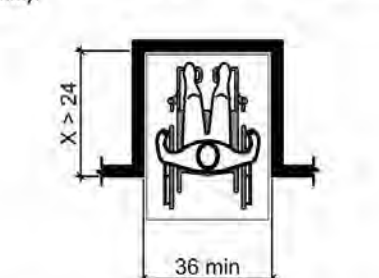


Figure 305.7.1 Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

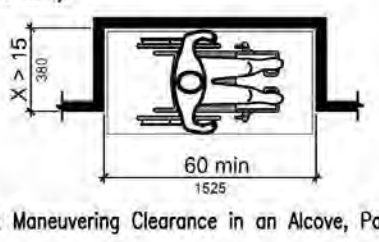


Figure 305.7.2 Parallel Approach

306 Knee and Toe Clearance

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

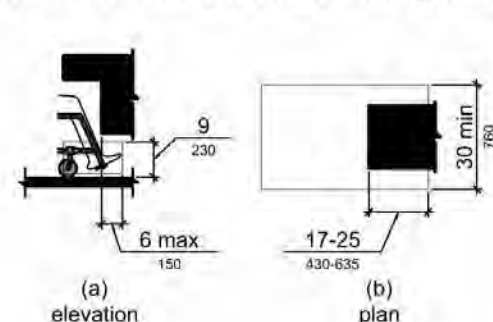


Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (203 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

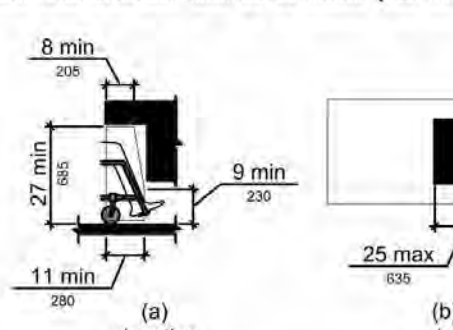


Figure 306.3 Knee Clearance

307 Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

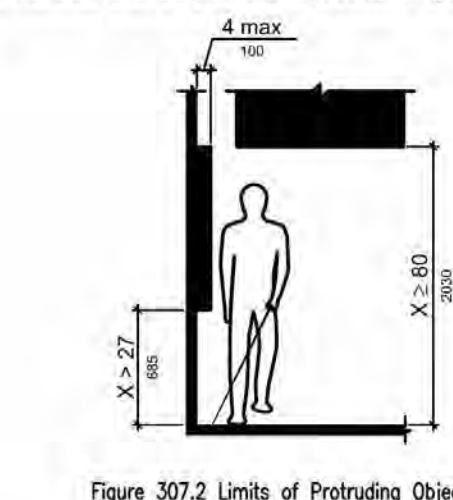


Figure 307.2 Limits of Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

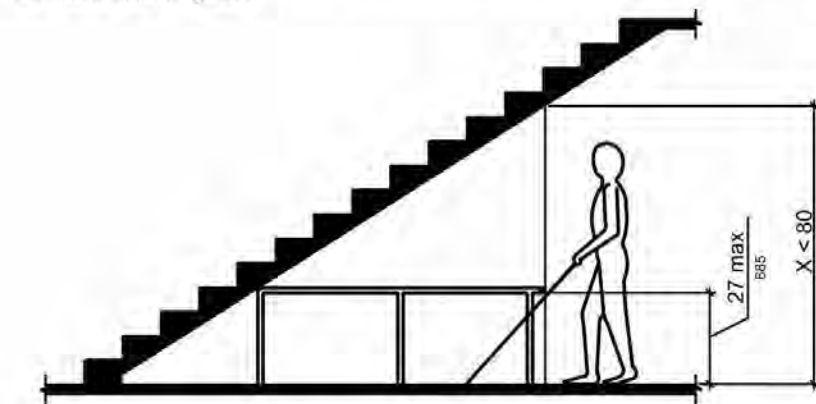


Figure 307.4 Vertical Clearance

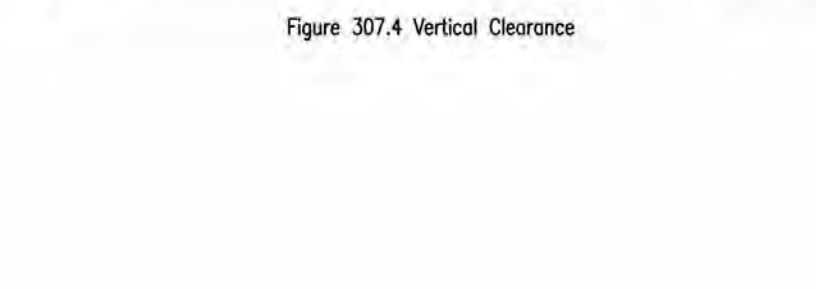


Figure 307.4 Vertical Clearance

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Figure 307.4 Vertical Clearance

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

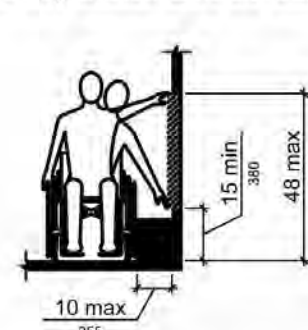


Figure 308.3.1 Unobstructed Side Reach

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

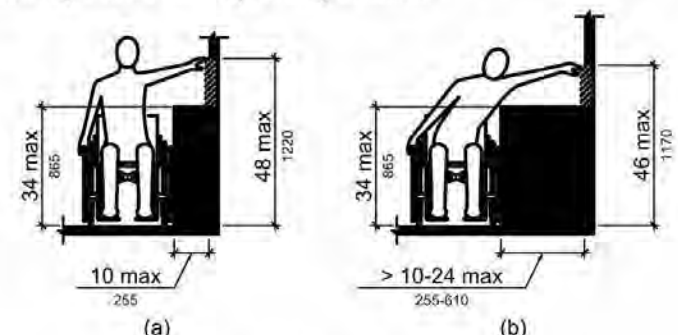


Figure 308.3.2 Obstructed High Side Reach

309 Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403 Walking Surfaces. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slopes. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

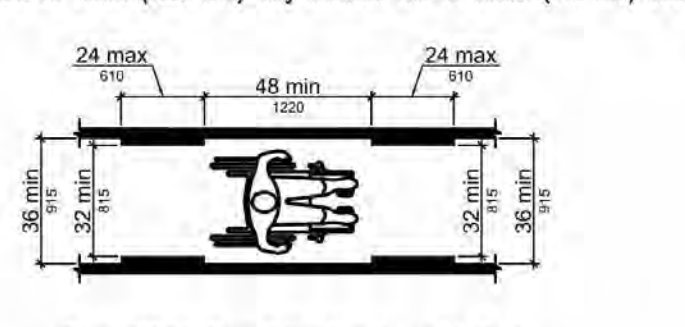


Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

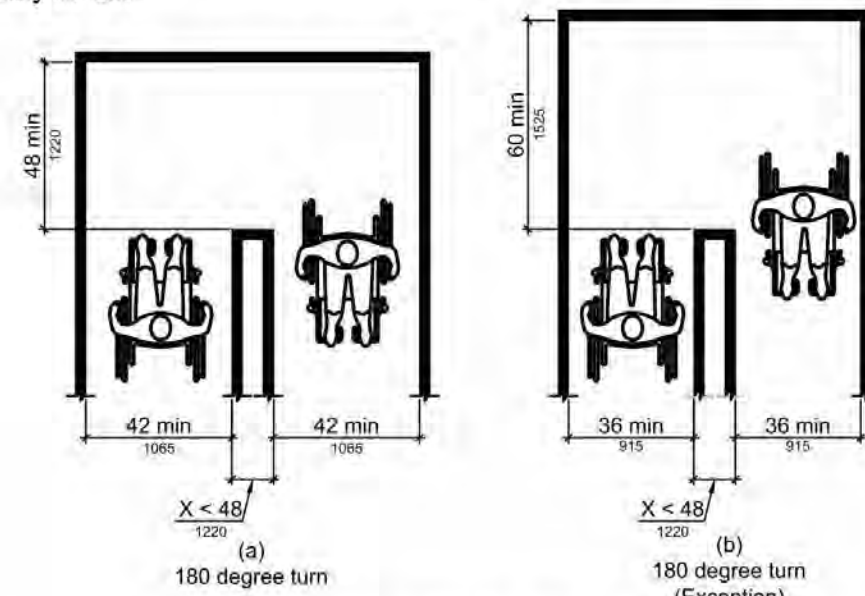


Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.

404 Doors, Doorways, and Gates

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

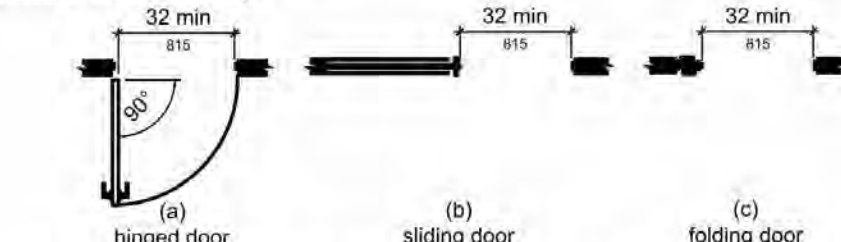


Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances of doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (203 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

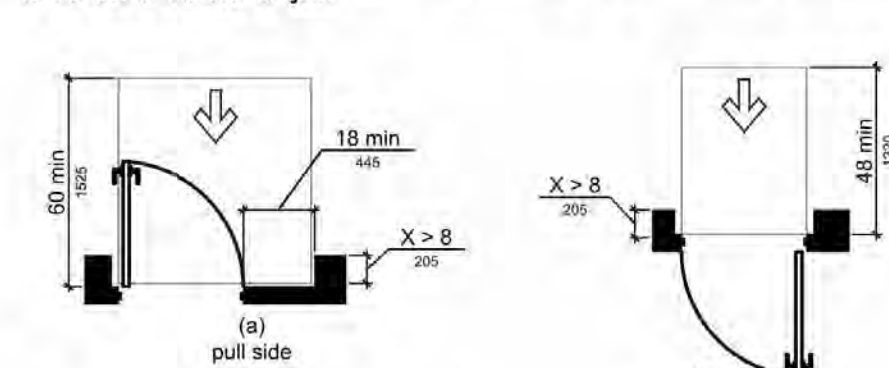


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

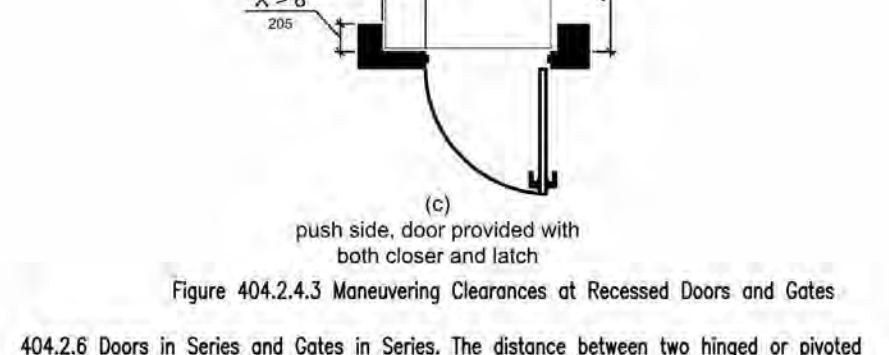


Figure 404.2.6 Doors in Series and Gates in Series

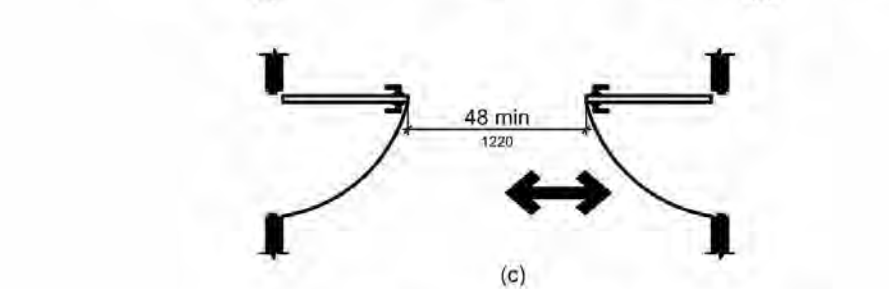
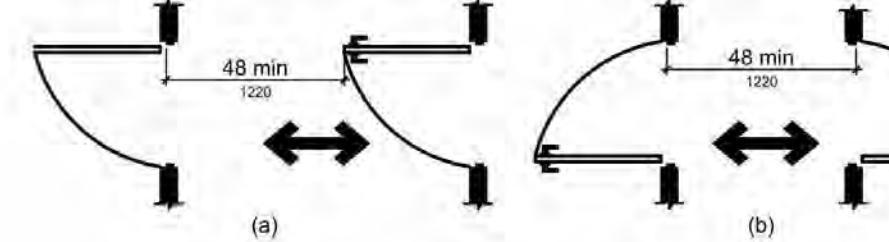


Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 308.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.
2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Covilies created by added kick plates shall be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving on accessible means of egress shall comply with 404.2.4.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

405 Ramps

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

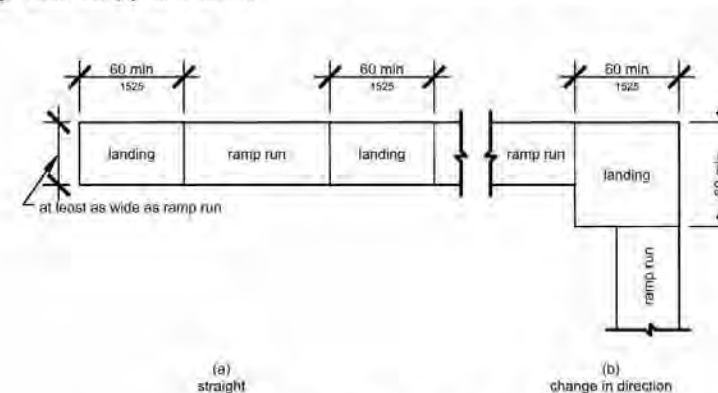


Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing.

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

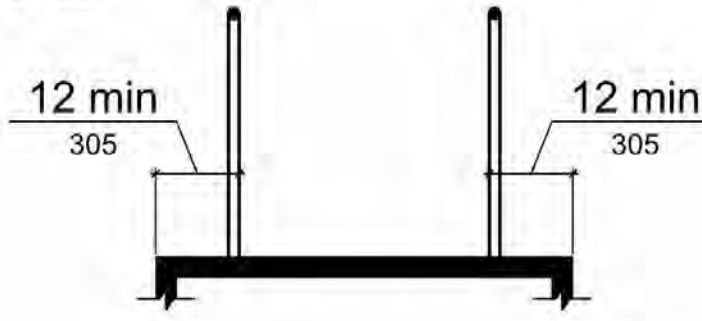


Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

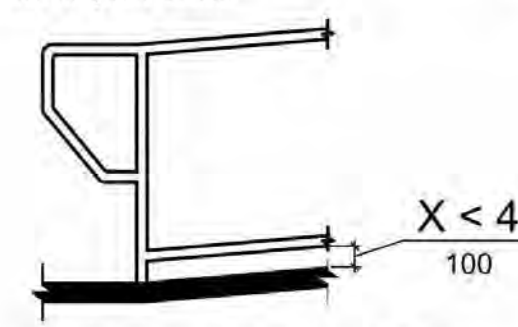


Figure 405.9.2 Curb or Barrier Edge Protection

406 Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces of transitions at curb ramps to walks, gutters, and streets shall be at the same level.



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Handicap Accessibility Details

Sheet Number: A7.1



604.8.1.4 Toe Clearance. The front portion and at least one side portion shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 8 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 85 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

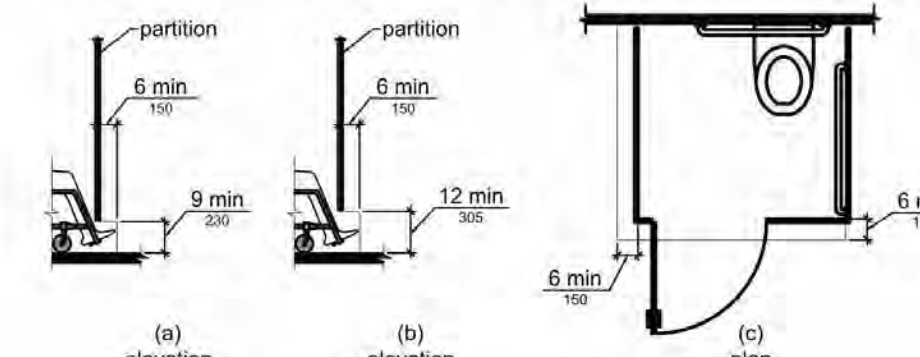


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.8.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.8.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) minimum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.8.1 shall be provided on both sides of the compartment.

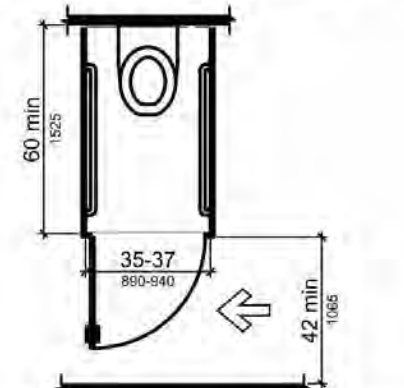


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a fixed position.

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet, measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 18 inches (455 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

604.9.7 Toilet Compartments. Toilet compartments shall comply with 604.8.

605 Urinals

605.1 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

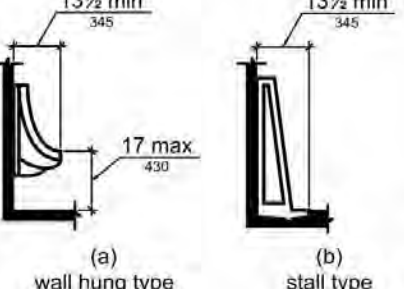


Figure 605.2 Height and Depth of Urinals

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606 Lavatories and Sinks

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

603 Toilet and Bathing Rooms

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance of fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixtures. Doors shall be permitted to swing into the required turning space.

603.3 Mirrors. Mirrors located above lavatories or countersinks shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countersinks shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604 Water Closets and Toilet Compartments

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

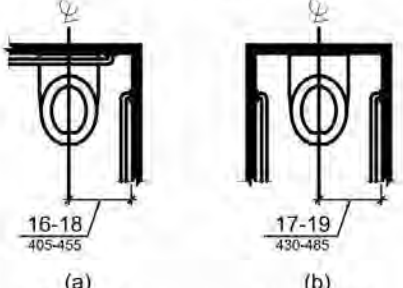


Figure 604.2 Water Closet Location

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.



Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required of other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a fixed position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum.

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.



Figure 604.5.1 Side Wall Grab Bar at Water Closets Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet, measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 18 inches (455 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

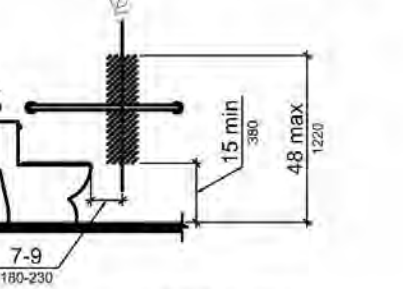


Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Where accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

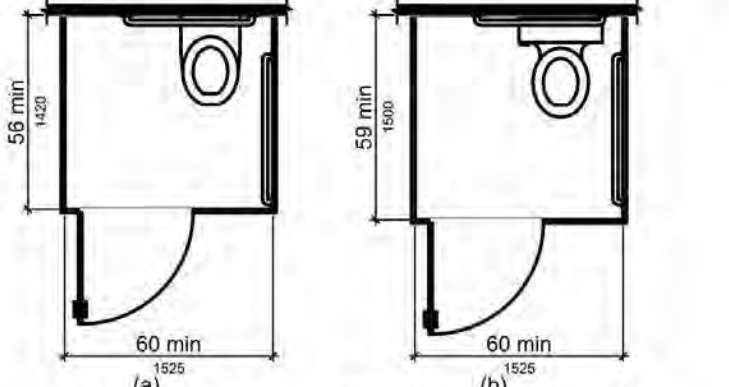


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front portion or in the side wall or partition farthest from the water closet. Where located in the front portion, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

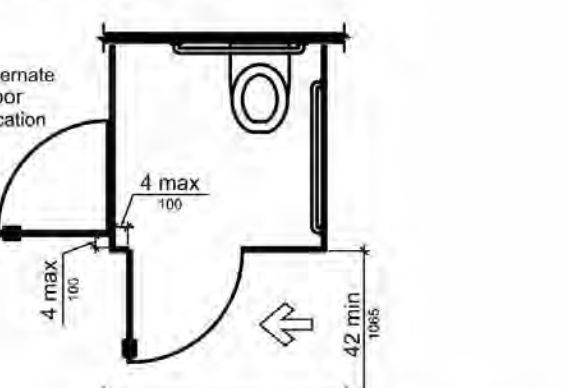


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

504 Stairways

504.1 General. Stairs that are part of the means of egress is required to comply with 504.

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

504.4 Tread Surface. Stair treads shall comply with 302. Changes in level are not permitted.

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the tread surface.

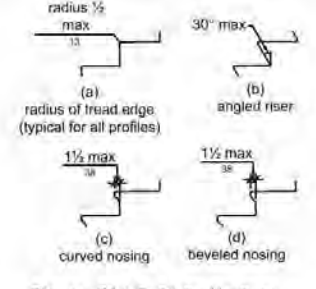


Figure 504.5 Stair Nosings

504.6 Handrails. Stairs shall have handrails complying with 505.

504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505 Handrails

505.1 General. Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

505.1.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.6) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 405.6).

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505.2 Height. Top of gripping surface of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

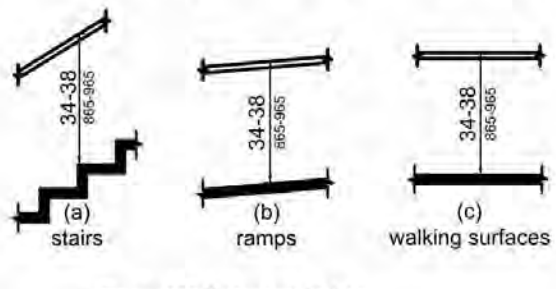


Figure 505.4 Handrail Height

505.5 Clearance. Clearance between handrail gripping surface and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum.



Figure 505.5 Handrail Clearance

505.6 Horizontal Projections Below Gripping Surface. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required of other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

505.6.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.6.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

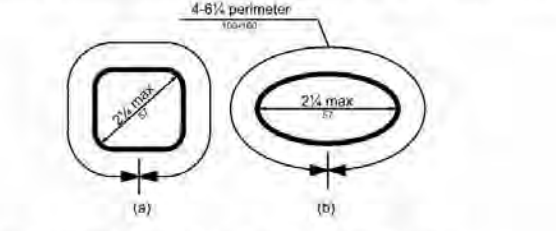


Figure 505.7 Handrail Non-Circular Cross Section

505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

505.10.1 Top and Bottom Extension of Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

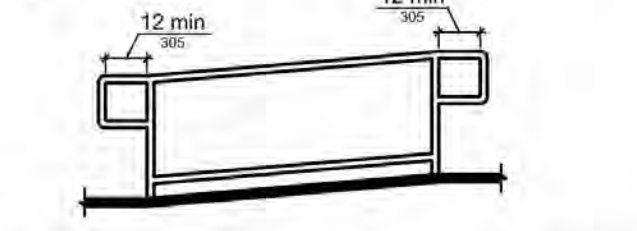


Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.



Figure 505.10.2 Top Handrail Extension at Stairs

505.10.3 Bottom Handrail Extension at Stairs. At the bottom of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the last riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

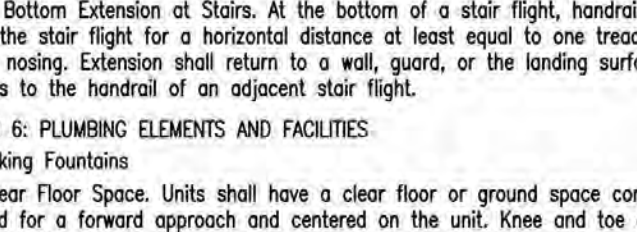


Figure 505.10.3 Bottom Handrail Extension at Stairs

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

602 Drinking Fountains

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.

EXCEPTION: A portable approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

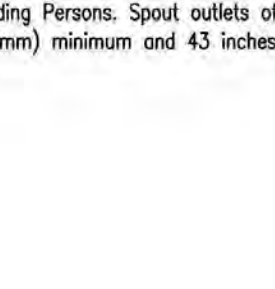


Figure 602.5 Drinking Fountain Spout Location

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

The ADA and other federal civil rights laws require that accessible features be maintained in working order so that they are accessible to and usable by those people they are intended to benefit. Building owners are reminded that the ASME A18 Safety Standards for Platform Lifts and Stairway Chairlifts requires routine maintenance and inspections, isolated or temporary interruptions in service due to maintenance or repairs may be unavoidable; however, failure to take prompt action to effect repairs could cause a violation of federal laws and these requirements.

410.2 Floor Surfaces. Floor surfaces in platform lifts shall comply with 302 and 303.

410.3 Clear Floor Space. Clear floor space in platform lifts shall comply with 305.

410.4 Platform to Runway Clearance. The clearance between the platform sill and the edge of any runway landing shall be 1 inch (25 mm) minimum.

410.5 Operable Parts. Controls for platform lifts shall comply with 309.

410.6 Doors and Gates. Platform lifts shall have low-energy power-operated doors or gates complying with 404.3. Doors shall remain open for 20 seconds minimum. Sid doors and gates shall provide a clear width 32 inches (815 mm) minimum. Side doors and gates shall provide a clear width 42 inches (1065 mm) minimum.

EXCEPTION: Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates.

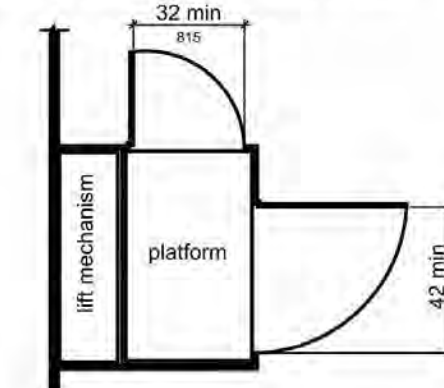


Figure 410.6 Platform Lift Doors and Gates

501 General

501.1 Scope. The provisions of Chapter 5 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

502 Parking Spaces

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, with measurements of parking spaces and access aisles shall be made from the centerline of the markings.

EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.

EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

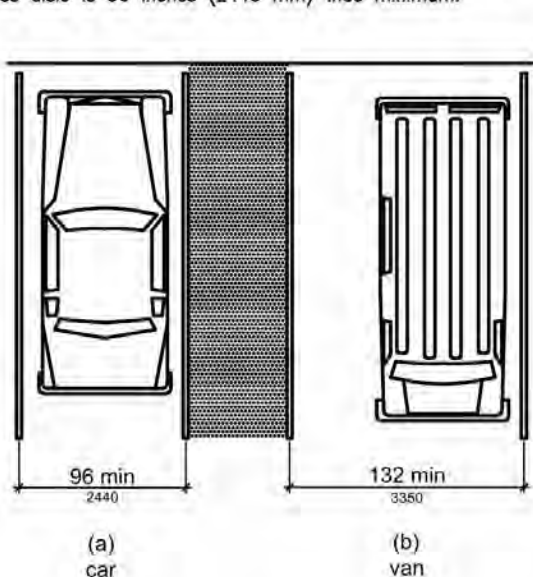


Figure 502.2 Vehicle Parking Spaces

502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall be 60 inches (1525 mm) wide minimum.

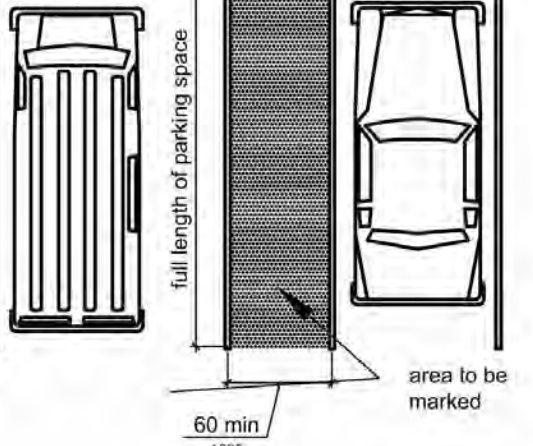


Figure 502.3 Parking Space Access Aisle

502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve.

502.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking spaces except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 96 inches (2440 mm) minimum.

502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

503 Passenger Loading Zones

503.2 Vehicle Pull-Up Space. Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) wide minimum and 20 feet (6100 mm) long minimum.

503.3 Access Aisle. Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull-up space. Access aisles shall option on accessible route and shall not overlap the vehicular way.

503.4 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) wide minimum.

503.3.2 Length. Access aisles shall extend the full length of the vehicle pull-up spaces they serve.

503.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

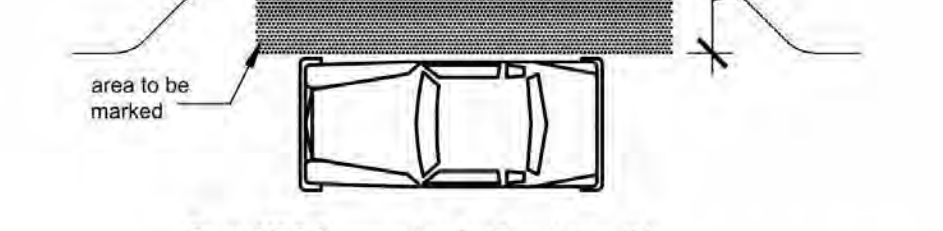


Figure 503.3 Passenger Loading Zone Access Aisle

503.4 Floor and Ground Surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

503.5 Vertical Clearance. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 114 inches (2895 mm) minimum.

408.3.2 Swinging Doors. Swinging doorway doors shall open and close automatically and shall comply with 404, 407.3.2 and 408.3.2.

GENERAL NOTES

DESIGN AND CODE INFORMATION

1.

ALL CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2018 EDITION.
2.

VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS THAT CONFLICT WITH OTHER PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DRAWINGS ARE NOT INTENDED FOR BUILDING LAYOUT.
3.

SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE GENERAL CONTRACTOR HAS THOROUGHLY REVIEWED THE SHOP DRAWINGS, VERIFIED EXISTING CONDITIONS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
4.

THE STRUCTURE IS UNSTABLE UNTIL ALL STRUCTURAL MEMBERS ARE ERECTED AND CONNECTED, ALL CONNECTIONS ARE COMPLETELY MADE AND INSPECTED, THE DECK IS ATTACHED TO THE FRAMING, THE ROOF SHEATHING IS ATTACHED, AND THE CONCRETE FLOORS ARE PLACED AND ATTAIN 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5.

DO NOT SCALE STRUCTURAL DRAWINGS. FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
6.

RISK CATEGORY: II
7.

LIVE LOADS
A. FLOORS: 100 PSF
B. ROOFS: 20 PSF
8.

SNOW LOADS
A. GROUND SNOW LOAD, Pg: 20 PSF
B. SNOW EXPOSURE, Ce: 0.9
C. THERMAL FACTOR, Ct: 1.0
D. SNOW IMPORTANCE FACTOR, Is: 1.0
E. FLAT ROOF SNOW LOAD, Pf: 20 PSF
F. SEE PEMB DRAWINGS FOR BUILDING INFORMATION.
9.

WIND LOADS
A. BASIC WIND SPEED, V: 109 MPH (3-SEC GUST)
B. WIND IMPORTANCE FACTOR, Iw: 1.0
C. WIND DIRECTIONALITY FACTOR, Kd: 0.85
D. EXPOSURE CATEGORY: C
E. TOPOGRAPHIC FACTOR, Kzt: 1.0
F. GUST EFFECT FACTOR, G: 0.85
G. INTERNAL PRESSURE COEFFICIENT, GCpi: 0.18
H. SEE PEMB DRAWINGS FOR BUILDING INFORMATION.
10.

SEISMIC LOADS
A. SEISMIC IMPORTANCE FACTOR, Ie: 1.0
B. 0.2 SEC RESPONSE PARAMETER, Ss: 0.1
C. 1.0 SEC RESPONSE PARAMETER, S1: 0.068
D. SITE CLASS: C
E. 0.2 SEC DESIGN RESP. PARAMETER, SDS: 0.087
F. 1.0 SEC DESIGN RESP. PARAMETER, SD1: 0.068
G. SEISMIC DESIGN CATEGORY: B
H. SEE PEMB DRAWINGS FOR BUILDING INFORMATION.

SPECIAL INSPECTIONS AND TESTING

1.

THE OWNER SHALL EMPLOY AN INDEPENDENT TESTING AGENCY TO PERFORM SPECIAL INSPECTIONS AND TESTS IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN, SHEET S0.01.
2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL WORK REQUIRING SPECIAL INSPECTIONS UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTIONS.

FOUNDATION NOTES

1.

FOUNDATION DESIGN IS BASED ON A REPORT PROVIDED BY INTERTEK PSI DATED MAY 21, 2021 (REPORT NO. 03382241).
2.

INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL OR FILL CAPABLE OF SUPPORTING 1,500 PSF AND CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL OR FILL CAPABLE OF SUPPORTING 1,200 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.
A. THE ABOVE PARAMETERS ARE PROVIDED BASED ON THE REPORT ON FILE. ADDITIONAL CONSIDERATIONS MAY BE REQUIRED BASED ON VERIFIED FIELD CONDITIONS, INCLUDING VERIFICATION OF BEARING CAPACITY.
B. FINAL DESIGN OF FOOTINGS BASED ON SOIL CAPACITY AND FINAL PRE-ENGINEERED METAL BUILDING DESIGN SHALL BE PROVIDED AFTER CONFIRMATION OF FIELD AND DESIGN CRITERIA.
3.

THE BUILDING PAD SHALL BE PREPARED AS RECOMMENDED IN THE GEOTECHNICAL REPORT. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, SURFACE UNDERCUTTING, PROOFROLLING, AND COMPACTION, FILL AND DRAINAGE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
4.

THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 3'-0" MINIMUM BELOW FINISHED GRADE.
5.

WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.
6.

WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

REINFORCED CONCRETE

1.

ALL CONCRETE WORK SHALL CONFORM TO ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
2.

REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A615, GRADE 60.
3.

THE COMPRESSIVE STRENGTH AT 28 DAYS OF ALL CAST IN PLACE CONCRETE SHALL BE:
A. 4000 PSI – SLAB-ON-GRADE
B. 4000 PSI - GRADE BEAMS, PIERS, WALLS
C. 3000 PSI - ALL OTHER CONCRETE
D. (SEE CIVIL DRAWINGS FOR SITE CONCRETE STRENGTH REQUIREMENTS).
4.

LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318-14, UNLESS NOTED OTHERWISE.
A. MINIMUM CLASS A LAP SPlice SHALL NOT BE LESS THAN 12 INCHES.
B. MINIMUM CLASS B LAP SPlice SHALL NOT BE LESS THAN 16 INCHES.
5.

CLEAR CONCRETE COVER FOR REINFORCING STEEL:
A. GRADE BEAMS AND PIERS 2" UNLESS NOTED OTHERWISE
B. WALLS 2" EXTERIOR FACES
3/4" INTERIOR FACES
C. SLAB-ON-GRADE 3/4" TOP STEEL
1 1/2" BOTTOM STEEL
D. FOOTINGS 2" FORMED EDGES
3" CAST AGAINST GROUND
6.

THE LONGITUDINAL REINFORCING STEEL IN WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
7.

CONCRETE WALLS AND SLABS SHALL BE REINFORCED AROUND ALL OPENINGS WITH 2-#6 BARS IN EACH FACE, ON ALL SIDES AND EXTENDED 2'-0" BEYOND THE OPENING, UNLESS SHOWN OTHERWISE.
8.

CONSTRUCTION JOINTS IN SLABS SHALL OCCUR AT MID-SPAN AND SHALL BE KEVED. IN ALL CASES THE LOCATION OF CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. KEYWAYS SHALL BE ONE THIRD THE DEPTH OF THE MEMBER.
9.

MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE.
10.

SLAB-ON-GRADE SHALL BE CONSTRUCTED OF CONCRETE WITH A DRY UNIT WEIGHT OF 145 PCF AT THE END OF 28 DAYS.
11.

UNLESS OTHERWISE DIRECTED, CONCRETE SLABS SHALL BE FINISHED TO THE FOLLOWING FLATNESS CRITERIA:
SPECIFIED OVERALL F NUMBERS
FLATNESS FF = 35
LEVEL FL = 25
MINIMUM LOCAL F NUMBERS
FLATNESS FF = 24
LEVEL FL = 17
12.

COORDINATE ALL VAPOR RETARDERS, VAPOR BARRIERS, AND WATERPROOFING OF CONCRETE SLAB-ON-GRADE AND CONCRETE WALLS WITH FINISH MATERIAL REQUIREMENTS AND ARCHITECTURAL SPECIFICATIONS.

PRE-ENGINEERED METAL BUILDING (DEFERRED SUBMITTAL)

1.

THE DESIGN OF PRE-ENGINEERED SYSTEMS THAT ARE DESIGNED AND ENGINEERED BY OTHERS IS THE SOLE RESPONSIBILITY OF THE SUPPLIER AND ITS DESIGN ENGINEER, WHO SHALL BE DULY LICENSED IN THE PROJECT STATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL ACCURACY AND CONFORMANCE TO THE STRUCTURAL DRAWINGS.
2.

DEFLECTION CRITERIA FOR METAL BUILDING AND COMPONENTS SHALL COMPLY WITH THE TO INTERNATIONAL BUILDING CODE, SECTION 1604.
3.

VERIFY SIZE, QUANTITY AND LOCATIONS OF ANCHOR BOLTS WITH PRE-ENGINEERED METAL BUILDING MANUFACTURER. ALL ANCHOR BOLTS SHALL BE A307 OR F1554 GR 55, HEADED TYPE BOLTS. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 18 BOLT DIAMETERS, MINIMUM 24", UNLESS NOTED OTHERWISE. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC., BEFORE INSTALLATION.
4.

IN ADDITION TO STRUCTURE DEAD LOADS AND SPECIFIED ROOF LIVE LOADS, PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED FOR AN ADDITIONAL COLLATERAL LOAD OF **6 PSF MINIMUM (VERIFY WITH OWNER AND FINISH REQUIREMENTS)**. COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL FOR LOCATION OF ANY ADDITIONAL CONCENTRATED LOADS DUE TO SUSPENDED EQUIPMENT, PIPES, ETC.
5.

FOOTING SIZES HAVE BEEN BASED ON ASSUMED COLUMN REACTIONS. THE PRE- ENGINEERED METAL BUILDING MANUFACTURER SHALL SUBMIT REACTIONS TO THE ENGINEER OF RECORD FOR VERIFICATION OF FOOTING SIZES.
6.

SIGNED AND SEALED PRE-ENGINEERED BUILDING SHOP DRAWINGS SHALL BE AVAILABLE AT THE JOB SITE FOR INSPECTION.

CONSTRUCTION	LL	SL OR WL	DL + LL
ROOF MEMBERS			
SUPPORTING PLASTER CEILINGS	L/360	L/360	L/360
SUPPORTING NON-PLASTER CEILINGS	L/240	L/240	L/240
NOT SUPPORTING CEILINGS	L/180	L/180	L/180
FLOOR MEMBER	L/360		L/240
EXT. WALLS & FRAMES			
SUPPORTING RIGID SIDING	N/A	L/360	N/A
SUPPORTING FLEXIBLE SIDING	N/A	L/240	N/A
SUPPORTING METAL SIDING	N/A	L/180	N/A
SL = SEISMIC LOAD WL = WIND LOAD LL = LIVE LOAD DL = DEAD LOAD L = LENGTH OF MEMBER IN SAME UNITS AS DEFLECTION			

- NOTE:**
1.

PEMB MANUFACTURER SHALL COORDINATE DEFLECTION REQUIRED FOR EXTERIOR STONE FINISH. PROVIDE ADEQUATE DEFLECTION CRITERIA FOR SERVICE LOADING RECOMMENED BY STONE PROVIDER.
2.

PEMB MANUFACTURER SHALL ACCOMMODATE HANGING LINTEL LOADS AS REQUIRED FOR OPENINGS GREATER THAN 10'-0".

POST INSTALLED ANCHORS IN CONCRETE & CONCRETE MASONRY

1.

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USING POST INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
2.

SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED, SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED DESIGN PROFESSIONAL IN THE STATE IN WHICH THE PROJECT IS LOCATED SHOWING THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE REFERENCED BUILDING CODE.
3.

MECHANICAL ANCHORS FOR CONCRETE AS SHOWN ON THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED AS SPECIFIED WITHIN THE CONTRACT DOCUMENTS.
4.

IN ADDITION TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, THE FOLLOWING GUIDELINES SHALL BE FOLLOWED FOR INSTALLATION OF ADHESIVE ANCHORS:
A. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION.
B. ADHESIVE ANCHORS SHALL BE INSTALLED IN DRY CONCRETE, AND DURING DRY CONDITIONS.
C. ADHESIVE ANCHORS SHALL BE INSTALLED IN HOLES PREDRILLED WITH A CARBIDE TIPPED DRILL BIT.
D. ADHESIVE ANCHORS SHALL BE INSTALLED WITHIN THE TEMPERATURE RANGE SPECIFIED IN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, BUT NOT OUTSIDE OF THE DESIGN TEMPERATURE RANGE. (ADHESIVE ANCHOR DESIGN TEMPERATURE RANGE IS 75 DEGREES FAHRENHEIT (LONG TERM) AND 104 DEGREES FAHRENHEIT (SHORT TERM) LOADS SHALL NOT BE APPLIED TO ADHESIVE ANCHORS UNTIL THE FILL CURING TIME ASSOCIATED WITH THE INSTALLATION TEMPERATURE HAS ELAPSED.
5.

INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHORS INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT.
6.

CONTINUOUS SPECIAL INSPECTIONS SHALL BE PROVIDED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE ANCHOR MPII AND/OR EVALUATION REPORT, UNLESS MORE SPECIFIC REQUIREMENTS ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS.

COLD FORMED STUDS (CFS)

1.

ALL WORK SHALL CONFORM WITH THE FOLLOWING STANDARDS:
A. AISI S100-16, "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS."
B. AISI S240-15, "NORTH AMERICAN STANDARD FOR COLD FORMED STEEL FRAMING."
2.

COMPONENTS SHALL BE MADE OF COLD FORMED STEEL COMPLYING WITH ASTM A1003/A1003M WITH A GALVANIZED COATING. COATING SHALL BE G60 COATING WEIGHT MINIMUM, COMPLYING WITH ASTM C955. MINIMUM YIELD STRENGTH SHALL BE AS FOLLOWS: 33 KSI FOR 43 MIL (19 GAUGE) AND LIGHTER; 50 KSI FOR 5 MIL (16 GAUGE) AND HEAVIER.
3.

COMPONENT SECTION PROPERTIES INCLUDING, BUT NOT LIMITED TO, AREA (A), MOMENT OF INERTIA (Ix AND Iy) AND RADIUS OF GYRATION (Rx, Ry) SHALL MEET OR EXCEED PUBLISHED VALUES BY CLARKDIETRICH BUILDING SYSTEMS FOR MEMBER SIZES INDICATED.
4.

PROVIDE FRAMING ACCESSORIES THAT MEET OR EXCEED BASIS OF DESIGN PRODUCTS BY CLARKDIETRICH BUILDING SYSTEMS. THESE PRODUCTS MAY INCLUDE BUT ARE NOT LIMITED TO:
A. SUPPLEMENTARY FRAMING.
B. BRACING, BRIDGING, AND SOLID BLOCKING.
C. ANCHOR CLIPS.
D. END CLIPS.
E. FOUNDATION CLIPS.
F. GUSSET PLATES.
G. STUD KICKERS AND KNEE BRACES.
H. JOIST HANGERS AND END CLOSURES.
I. HOLE REINFORCING PLATES.
J. BACKER PLATES.
5.

OTHER CONNECTORS FROM SIMPSON STRONG-TIE COMPANY MAY BE SPECIFIED ON THE DRAWINGS.
6.

SCREWS SHALL BE SELF-DRILLING, SELF-TAPPING STEEL SCREWS COMPLYING WITH ASTM C1513. GALVANIZED, PLATED OR OIL-PHOSPHATE COATING SHALL COMPLY WITH ASTM B633 AND BE PROVIDED AS NEEDED FOR REQUIRED CORROSION RESISTANCE.
7.

WELDING IS PERMITTED ON 18 GAUGE OR HEAVIER MATERIAL ONLY. QUALITY WELDING OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.3-2008, "STRUCTURAL WELDING CODE—SHEET METAL." TOUCH UP ALL WELDS WITH ZINC RICH PAINT IN COMPLIANCE WITH ASTM A780.
8.

THE JOIST ENDS SHALL BE REINFORCED TO ADEQUATELY STIFFEN THE JOIST WEB AND TRANSFER LOADS TO THE SUPPORTS. MINIMUM END BEARING SHALL BE 1 1/2 INCHES.
9.

STUDS SHALL SIT SQUARELY IN THE TOP AND BOTTOM RUNNER TRACK WITH FIRM ABUTMENT AGAINST TRACK WEBS. STUDS SHALL BE ALIGNED OR PLUMBED AND SECURELY FASTENED TO THE FLANGES OF BOTH TOP AND BOTTOM RUNNER TRACK. STUDS SHALL BE POSITIONED IN THE RUNNER TRACK SO AS TO BE ALIGNED DIRECTLY BELOW FLOOR ROOF OR CEILING FRAMING MEMBERS OVERHEAD. IF UNABLE TO CENTER AND DIRECTLY TRANSFER LOADS FROM FLOOR OR ROOF FRAMING (SUCH AS AT OPENINGS) TO THE STUDS, LINTELS SHALL BE PROVIDED.
10.

JOINING OF FRAMING MEMBERS SHALL BE MADE WITH SELF-DRILLING SCREWS OR WELDING. WIRE TYING OF FRAMING MEMBERS IN STRUCTURAL APPLICATIONS SHALL NOT BE PERMITTED.
11.

SPLICES IN STEEL JOISTS OR STUDS SHALL NOT BE PERMITTED.
12.

DURING ERECTION, THE CONTRACTOR SHALL PROVIDE MEANS OF ADEQUATE DISTRIBUTION OF CONCENTRATED LOADS SO THAT THE LOAD CARRYING CAPACITY OF ANY STEEL MEMBER IS NOT EXCEEDED.

STRUCTURAL SHEET INDEX	
SHEET NO.	SHEET NAME
S0.0	GENERAL NOTES
S0.1	QUALITY ASSURANCE/ STATEMENT OF SPECIAL INSPECTION
S1.0	FOUNDATION PLAN
S1.1	LARGE SCALE PLANS
S2.0	FOUNDATION DETAILS
S2.1	FOUNDATION DETAILS
S3.1	CONCRETE PIER DETAILS
S3.2	CONCRETE PIER DETAILS

ABBREVIATIONS

ARCH	ARCHITECT, ARCHITECTURAL	FV	FIELD VERIFY
BRG	BEARING	INFO	INFORMATION
CL	CENTERLINE	JST	JOIST
CFS	COLD FORMED STEEL	PEMB	PRE-ENGINEERED METAL BUILDING
CMU	CONCRETE MASONRY UNIT	PL	PLATE
CONC	CONCRETE	REINF	REINFORCING
CONT	CONTINUOUS	RTU	ROOF TOP UNIT
DIA	DIAMETER	SHT	SHEET
DWGS	DRAWINGS	SPC	SPACING
EL	ELEVATION	T.O.M.	TOP OF MASONRY
FND	FOUNDATION	U.N.O.	UNLESS NOTED OTHERWISE
FFE	FINISHED FLOOR ELEVATION	&	AND
FTG	FOOTING		

COLD FORMED STUDS (CFS), CONT.

13.

PERFORMANCE REQUIREMENTS
A. CALCULATE STRUCTURAL PROPERTIES PER AISI - SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2007.
B. DESIGN SYSTEM COMPONENTS PER AISI REFERENCE. PROVIDE FOR MOVEMENT OF COMPONENTS DUE TO THERMAL VARIATIONS WITHOUT DAMAGE, FAILURE, OR EXCESSIVE STRESS ON COMPONENTS.
C. DESIGN EXTERIOR WALL SYSTEM FOR ENVIRONMENTAL LOADS AS OUTLINED IN THE ASCE 7 LATEST EDITION TO PROVIDE FOR MOVEMENT OF COMPONENTS WITHOUT DAMAGE, FAILURE OF JOINT SEALS, UNDUE STRESS ON FASTENERS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO SEASONAL OR CYCLIC DAY/NIGHT TEMPERATURE RANGES.
D. DESIGN SYSTEM TO ACCOMMODATE CONSTRUCTION TOLERANCES, DEFLECTION OF BUILDING STRUCTURAL MEMBERS, AND CLEARANCES OF INTENDED OPENINGS.
E. MAXIMUM ALLOWABLE DEFLECTION:
a. GYPSUM BOARD: L/360 OF SPAN UNDER TOTAL DESIGN LOADS.
b. EXTERIOR INSULATION FINISH SYSTEM: L/360 OF SPAN UNDER TOTAL DESIGN LOADS.
c. PLASTER OR STUCCO: L/360 OF SPAN UNDER TOTAL DESIGN LOADS.
d. BRICK VENEER: L/600 OF SPAN UNDER TOTAL DESIGN LOADS.
F. HORIZONTAL ASSEMBLIES:
a. MAXIMUM ALLOWABLE DEFLECTION: L/360 OF SPAN UNDER TOTAL DESIGN LOADS.
G. STRUCTURAL PERFORMANCE: DESIGN, FABRICATE, AND ERECT COLD-FORMED STEEL WALL PANELS TO WITHSTAND SPECIFIED DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS REQUIRED.
a. DESIGN LOADS: AS SPECIFIED.
b. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE CHANGE (RANGE) OF 120 DEG F (67 DEG C).
14.

SUBMITTALS
A. SUBMIT DOCUMENTATION.
B. PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:
a. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.
b. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.
c. INSTALLATION METHODS.
C. STRUCTURAL CALCULATIONS:
a. ALL SHOP DRAWING SUBMITTALS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF THE PROJECT LOCATION. ENGINEER SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE WITH PROJECTS OF SIMILAR SCOPE.
b. DESCRIPTION OF DESIGN CRITERIA.
c. SELECTION OF FRAMING COMPONENTS, ACCESSORIES AND WELDED CONNECTION REQUIREMENTS.
d. VERIFICATION OF ATTACHMENTS TO STRUCTURE AND ADJACENT FRAMING COMPONENTS.
D. SHOP DRAWINGS:
a. SUBMIT SHOP DRAWINGS PREPARED BY THE MANUFACTURER SHOWING PLANS, SECTIONS, ELEVATIONS, LAYOUTS, PROFILES AND PRODUCT COMPONENT LOCATIONS, INCLUDING ANCHORAGE, BRACING, FASTENERS, ACCESSORIES AND FINISHES.
b. SHOW CONNECTION DETAILS WITH SCREW TYPES AND LOCATIONS, WELD LENGTHS AND LOCATIONS, AND OTHER FASTENER REQUIREMENTS.
c. WHERE PRE-FABRICATED OR PRE-FINISHED PANELS ARE TO BE PROVIDED, PROVIDED DRAWINGS DEPICTING PANEL CONFIGURATIONS, DIMENSIONS AND LOCATIONS.
E. WELDER'S CERTIFICATES: SUBMIT MANUFACTURER'S CERTIFICATES, CERTIFYING WELDERS EMPLOYED ON WORK, VERIFYING AWS QUALIFICATIONS WITHIN THE PREVIOUS 12 MONTHS.
F. VERIFICATION SAMPLES - FOR EACH FINISH PRODUCT SPECIFIED, TWO SAMPLES, MINIMUM SIZE 6 INCHES (150 MM) SQUARE, REPRESENTING ACTUAL PRODUCT, COLOR, AND PATTERNS.



CALIBER
COLLISION

LEES SUMMIT,
MISSOURI

Frederick A. Weis, Jr., P.E.

214 Overlook Circle, Suite 201
Brentwood, TN 37027
ph. 615.953.9474
fax: 615.658.8145

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Job Number: 2116

Date: 12.10.2021

Revisions:

Revisions:

Revisions: GENERAL NOTES

Sheet Number: S0.0

QUALITY ASSURANCE/ PROPOSED
STATEMENT OF SPECIAL
INSPECTION

STRUCTURAL SPECIAL INSPECTION STATEMENT

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT AS WELL AS THE NAME OF THE SPECIAL INSPECTOR TO BE RETAINED FOR CONDUCTING THESE INSPECTIONS AND TESTS. THIS STATEMENT OF SPECIAL INSPECTIONS ENCOMPASSES STRUCTURAL DISCIPLINE.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF SPECIAL INSPECTION. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE IN CHARGE OF SPECIAL INSPECTION. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF SPECIAL INSPECTION AND THE ENGINEER OF RECORD.

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTES IN THE INSPECTIONS SHALL BE SUBMITTED BY ALL SPECIAL INSPECTORS AND THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF SPECIAL INSPECTIONS PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

JOB SITE SAFETY MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

THIS STATEMENT OF SPECIAL INSPECTIONS INCLUDES THE FOLLOWING BUILDING SYSTEMS:

☒ FABRICATORS

☒ SOILS

☒ PILE FOUNDATIONS

☒ PIER FOUNDATIONS

☒ CAST-IN-PLACE CONCRETE

☐ PRECAST CONCRETE

☐ MASONRY LEVEL 1

☐ MASONRY LEVEL 2

☒ STRUCTURAL STEEL

☒ STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

☐ SEISMIC RESISTANCE

☐ WIND RESISTANCE

☐ WOOD CONSTRUCTION

☐ OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

REGISTERED DESIGN PROFESSIONAL
IN RESPONSIBLE CHARGE**

RESPONSIBILITY	FIRM	ADDRESS AND TELEPHONE NUMBER
1.	-	-
2.	-	-
3.	-	-

NOTE:

1. **REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: A REGISTERED DESIGN PROFESSIONAL ENGAGED BY THE OWNER TO REVIEW AND COORDINATION THE SPECIAL INSPECTION AS DETERMINED BY THE BUILDING OFFICIAL, FOR COMPATIBILITY WITH THE DESIGN OF THE BUILDING OF STRUCTURE INCLUDING SUBMITTAL DOCUMENTS PREPARED BY OTHERS, DEFERRED SUBMITTAL DOCUMENTERS AND PHASED SUBMITTAL DOCUMENTS.

2. ENGINEER OF RECORD HAS NOT BEEN ENGAGED AS THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF SPECIAL INSPECTIONS.

SPECIAL INSPECTION AGENCIES

1.	-	-
2.	-	-
3.	-	-

NOTES:

1. THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR.

2. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.

3. THE MINIMUM QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES SHALL BE THOSE LISTED IN THE MINIMUM SPECIAL INSPECTOR QUALIFICATIONS TABLE. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.

4. INSPECTION OF FABRICATORS IS NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH SECTION 1704.2.2 OF THE BUILDING CODE.

SPECIAL INSPECTION SCHEDULE: FABRICATORS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. VERIFY FABRICATION AND IMPLEMENTATION PROCEDURES:	YES		
A. STEEL CONSTRUCTION **	YES	-	X
B. CONCRETE CONSTRUCTION (INCLUDING REBAR FABRICATION)	YES	-	X
C. WOOD CONSTRUCTION **	NO	-	X
D. COLD FORMED METAL CONSTRUCTION	YES	-	X
E. OTHER CONSTRUCTION	NO	-	X

**IF FABRICATOR IS NOT EXEMPT PER IBC CHAPTER 17.

SPECIAL INSPECTION SCHEDULE: SOILS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	YES	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	YES	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	YES	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	YES	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	YES	-	X

SPECIAL INSPECTION SCHEDULE: CAST-IN-PLACE
FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE FOUNDATION CONSTRUCTION IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE: CONCRETE CONSTRUCTION FOR THE FOLLOWING FOUNDATION ELEMENTS: A. ISOLATED SPREAD CONCRETE FOOTINGS	YES	-	X
B. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS	YES	-	X
C. CONCRETE FOUNDATION WALLS	YES	-	X

SPECIAL INSPECTION SCHEDULE:
CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT.	YES	-	X
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE: STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL ITEM 3.	NO	-	-
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	YES	X	X
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	YES	-	X
5. VERIFYING USE OF REQUIRED DESIGN MIX.	YES	-	X
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	YES	X	-
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	YES	X	-
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	YES	-	X
9. INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES.	NO	X	-
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC- FORCE-RESISTING SYSTEM.	NO	X	-
10. ERECTION OF PRECAST CONCRETE MEMBERS.	NO	-	X
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	YES	-	X
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	YES	-	X

NOTE:
SPECIAL INSPECTIONS FOR ISOLATED SPREAD CONCRETE FOOTINGS, CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS, AND CONCRETE FOUNDATION WALLS SHALL BE IN ACCORDANCE WITH THIS TABLE.

SPECIAL INSPECTION SCHEDULE:
STRUCTURAL STEEL CONSTRUCTION

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	YES	-	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	YES	-	X
2. INSPECTION OF HIGH-STRENGTH BOLTING: A. SNUG-TIGHT JOINTS.	YES	-	X
A. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OFF NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	YES	-	X
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OFF NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION .	YES	X	-
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS AND AISC 360.	YES	-	X
B. MANUFACTURER'S CERTIFIED TEST REPORTS.	YES	-	X
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	YES	-	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	YES	-	X
5. INSPECTION OF WELDING, STRUCTURAL STEEL: A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	YES	X	-
B. MULTIPASS FILLET WELDS	YES	X	-
C. SINGLE-PASS FILLET WELDS > 5/16"	YES	X	-
D. SINGLE-PASS FILLET WELDS ≤ 5/16"	YES	-	X
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: A. DETAILS SUCH AS BRACING AND STIFFENING.	YES	-	X
B. MEMBER LOCATIONS.	YES	-	X
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	YES	-	X

REFER TO RDPIRC FOR ADDITIONAL PEMB SYSTEM REQUIREMENTS.

SPECIAL INSPECTION SCHEDULE:
STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	YES	-	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	YES	-	X
2. INSPECTION OF WELDING, COLD-FORMED STEEL DECK: A. FLOOR AND ROOF DECK WELDS.	YES	-	X
3. INSPECTION OF WELDING, REINFORCING STEEL: A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	NO	-	X
B. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	NO	X	-
C. SHEAR REINFORCEMENT.	NO	X	-
D. OTHER REINFORCING STEEL.	NO	-	X
4. INSPECTION OF COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER: A. VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE.	NO	-	X
B. VERIFY PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE.	NO	-	X

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

OXFORD
ARCHITECTURE

2934 Sicks Drive
Suite 120
Nashville, TN 37204

Architecture
Planning
Interior Architecture

STATE OF MISSOURI
FREDERICK A. WEIS, JR.
MEMBER
PE-22849
PROFESSIONAL ENGINEER
12-10-21

CALIBER
COLLISION

LEES SUMMIT,
MISSOURI

Frederick A. Weis, Jr., P.E.

214 Overlook Circle, Suite 201
Brentwood, TN 37027
ph. 615.953.9474
fax: 615.658.8145

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Date: 12.10.2021

Revisions:

Revisions:

Revisions:

QUALITY ASSURANCE/ STATEMENT OF SPECIAL INSPECTION

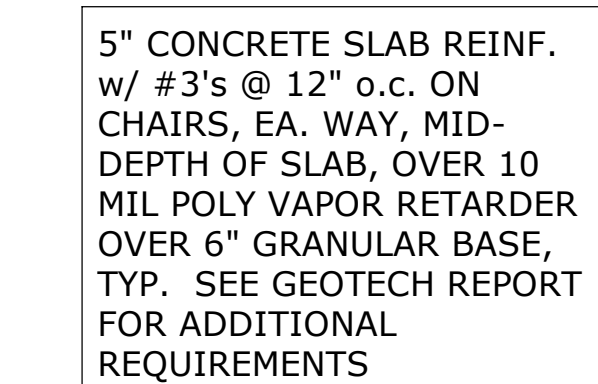
Sheet Number: SO.1

WE-21129



LEES SUMMIT,
MISSOURI

214 Overlook Circle, Suite 201
Brentwood, TN 37027
ph. 615.953.9474
fax: 615.658.8145



NOTE:

1. SEE S3._ SHEETS FOR CONCRETE PIER REINFORCING & CONFIGURATION.
2. * INDICATES COLUMNS UNDERSTOOD TO BE REQUIRED. ADDITIONAL COORDINATION SHALL BE REQUIRED w/ FINAL PEMB ANCHOR BOLT LAYOUT & FOUNDATION LAYOUT.


NOTE:
1. SEE GEOTECHNICAL REPORT FOR BEARING REQUIREMENTS.

FOUNDATION NOTES:

1. SEE GEOTECHNICAL REPORT FOR BEARING REQUIREMENTS.
2. FOUNDATION DESIGN IS BASED ON ASSUMPTIONS. FINAL FOUNDATION DESIGN SHALL BE BASED ON FINAL CONTRACT DOCUMENTS FROM PRE-ENGINEERED METAL BUILDING SUPPLIER.

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

- NOTES:


1. FOOTING ELEVATION:
 - A. BOTTOM OF FOOTING:
 - a. EXTERIOR ISOLATED FOOTINGS = -3'-0" BELOW FINISH FLOOR OR FINISHED GRADE, WHICHEVER IS LOWER, U.N.O.
 - b. CONTINUOUS WALL FOOTING = -3'-0" BELOW FINISH FLOOR OR FINISHED GRADE, WHICHEVER IS LOWER, U.N.O.
 - B. TOP OF FOOTING
 - a. EXTERIOR ISOLATED FOOTINGS = -1'-8" BELOW FINISH FLOOR OR FINISHED GRADE, WHICHEVER IS LOWER, U.N.O.
 - b. CONTINUOUS WALL FOOTING = -1'-8" BELOW FINISH FLOOR OR FINISHED GRADE, WHICHEVER IS LOWER, U.N.O.
2. THE CONTRACTOR SHALL COORDINATE ANY UNDER SLAB PIPING, CONDUITS, AND/OR UTILITIES PRIOR TO PLACING FOOTINGS. IMMEDIATELY REPORT ANY CONFLICTS TO THE ENGINEER.
3. SEE DETAIL 1 / S2.0 FOR SLAB CONTROL JOINTS.
4. THE REINFORCING IN THE CONTINUOUS STRIP FOOTINGS SHALL EXTEND THROUGH ISOLATED FOOTINGS. THIS SHALL BE IN ADDITION TO THE FOOTING REINFORCING NOTED IN THE FOOTING SCHEDULE.
5. UNDERCUT, TEST, & PREPARE SITE AS RECOMMENDED IN GEOTECHNICAL REPORT.
6. FOUNDATION DESIGN IS BASED ON REACTIONS PROVIDED BY RIGID GLOBAL BUILDING, DATED 12.27.2021 (PROJECT NUMBER 71872). GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIMENSIONS AND ANCHOR BOLT LOCATIONS WITH PEMB, ARCHITECTURAL, AND STRUCTURAL DRAWINGS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION OF DETAILS.
8. SEE SHEET S0.0 FOR PEMB DEFLECTION CRITERIA.
9. SEE 9 / S2.0 FOR DUMPSER PAD FOUNDATION. SEE ARCH. FOR LOCATION.
10. SEE 14 / S2.0 FOR LIGHT POLE BASE DETAIL. SEE CIVIL FOR LOCATIONS.
11.  INDICATES FOOTING STEP. G.C. SHALL COORDINATE LOCATION AND DEPTH OF STEPS WITH ADJACENT SYSTEMS. SEE 20 / S2.0 FOR STEP PROVISIONS.

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Job Number: 2116

Date: 12.10.2021

Revisions:  01.07.2022Revisions:

Revisions:

1 FOUNDATION PLAN

Sheet Number: { S1 05

WE-21129



CALIBER COLLISION

LEES SUMMIT,
MISSOURI

Frederick A. Weis, Jr., P.E.
214 Overlook Circle, Suite 101
Brentwood, TN 37027
ph. 615.953.9474
fax: 615.658.8145

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Job Number: 2116

Date: 12.10.2021

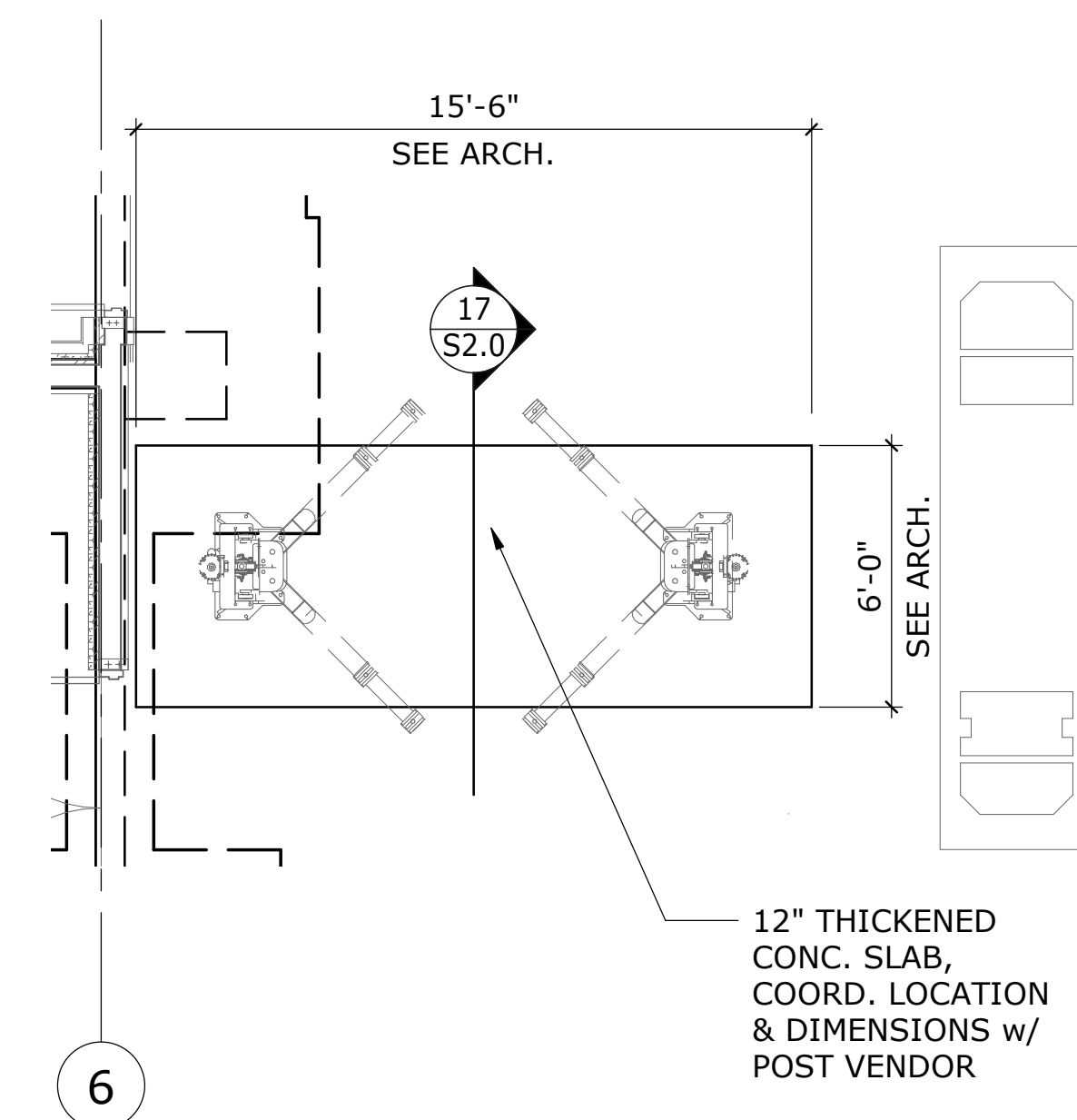
Revisions:

Revisions:

Revisions: LARGE SCALE PLANS

Sheet Number: S1.1
WE-21129

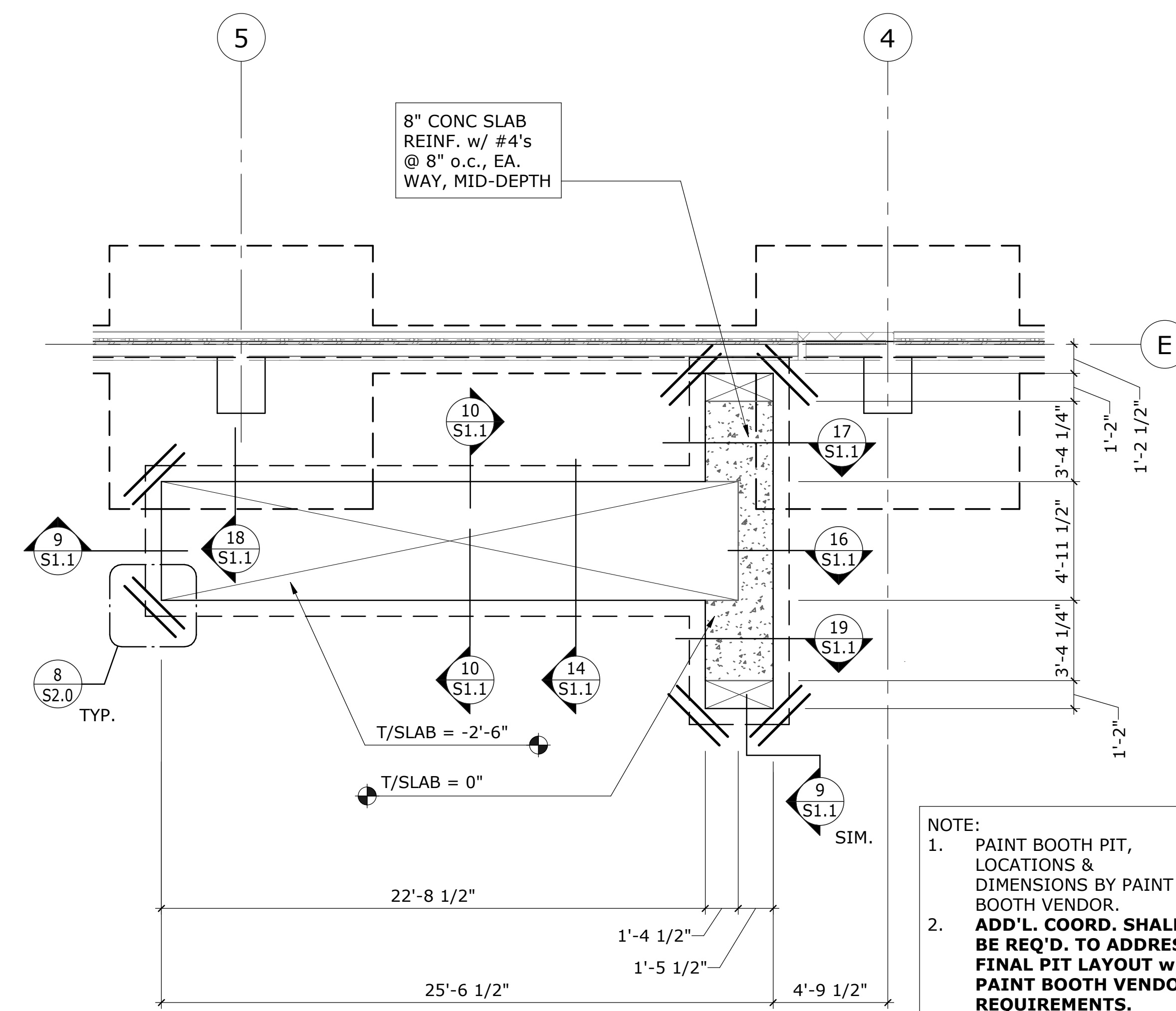
- NOTE:
- SEE RACK & POST LIFT VENDOR FOR LOADING AND ANCHORAGE REQUIREMENTS.
 - ANCHORS SHALL NOT OVER PENETRATE SLAB. SEE GENERAL NOTES FOR CONCRETE COVERAGE REQUIREMENTS.
 - SLAB THICKNESS MAY BE ADJUSTED TO ACCOMMODATE RACK OR POST LIFT ANCHORAGE BASED ON FINAL LOADING & ANCHORAGE CRITERIA PROVIDED BY THE RACK SUPPLIER.**



FOUNDATION PLAN - PARTIAL @ TWIN POST LIFT

SCALE: 1/4" = 1'-0"

- NOTES:
- MAXIMUM OPERATING DESIGN LOAD FOR POST LIFT AND RACK IS UNDERSTOOD TO BE 8,000 LBS (EACH).

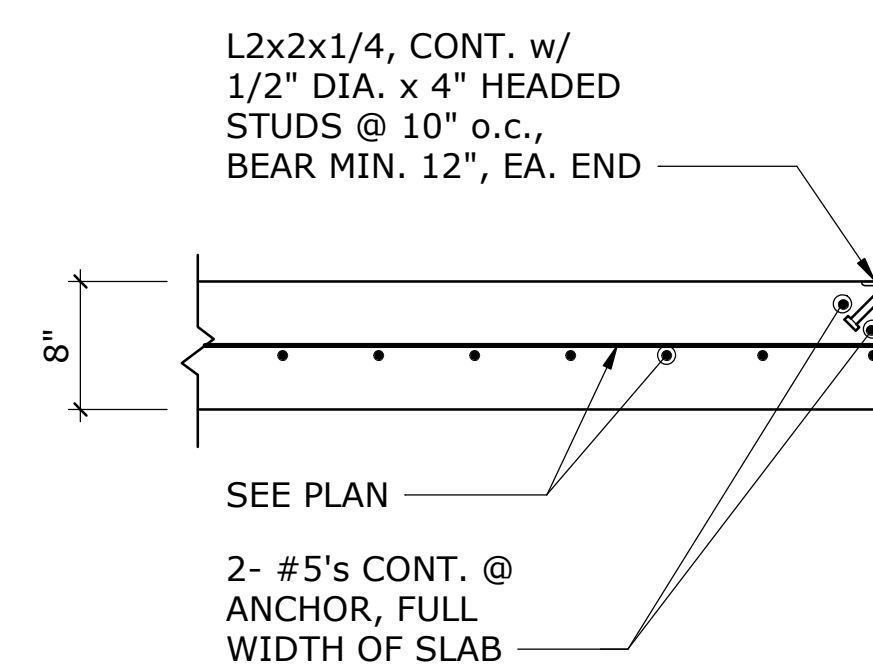


FOUNDATION PLAN - PAINT BOOTH PIT

SCALE: 1/4" = 1'-0"

- NOTES:
- FOUNDATION DESIGN IS BASED ON PRELIMINARY DRAWINGS PROVIDED BY GLOBAL FINISHING SOLUTIONS, DATED NOVEMBER 24, 2021. FINAL FOUNDATION DESIGN SHALL BE BASED ON FINAL PAINT BOOTH EQUIPMENT DRAWINGS AND PIT REQUIREMENTS FROM PAINT BOOTH VENDOR.

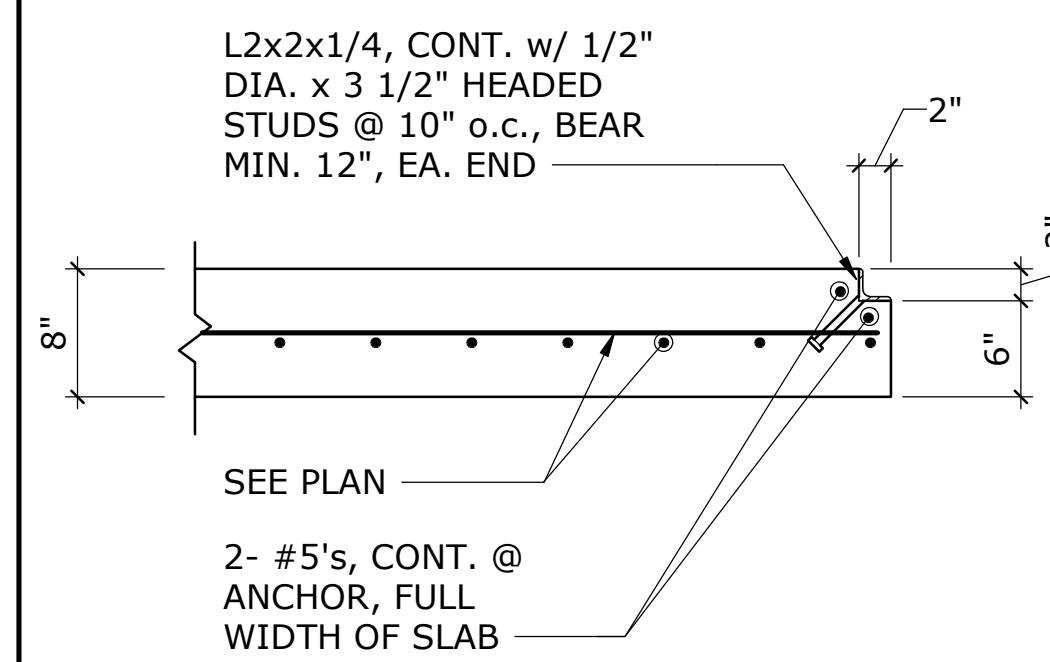
- NOTE:
- G.C. SHALL COORD. CLR. w/ PAINT BOOTH SUPPLIER.
 - 1/4" BENT PL. x 1 3/4 x 1 3/4 MAY BE USED IN LIEU OF L2x2 ANGLES.



SECTION @ PAINT BOOTH PIT - 8" SLAB

SCALE: 1" = 1'-0"

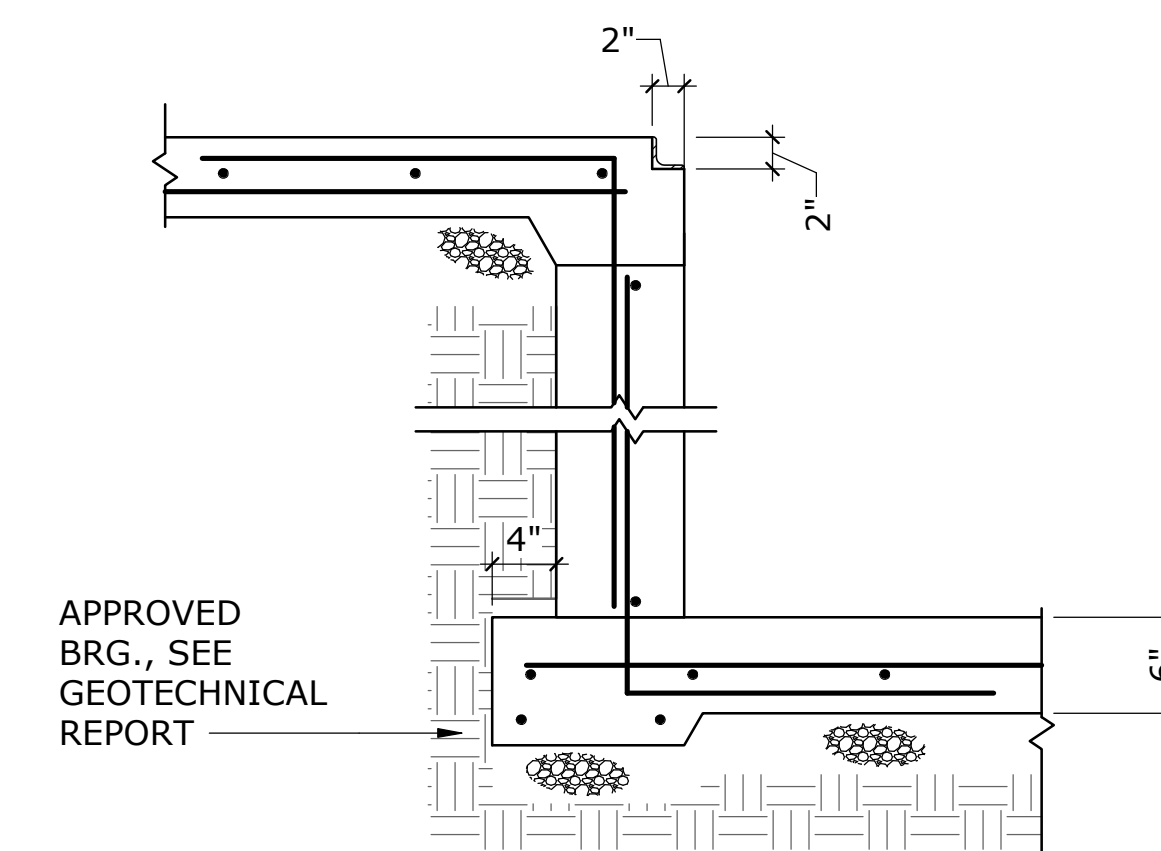
- NOTE:
- G.C. SHALL COORD. CLR. w/ PAINT BOOTH SUPPLIER.
 - 1/4" BENT PL. x 1 3/4 x 1 3/4 MAY BE USED IN LIEU OF L2x2 ANGLES.



SECTION @ PAINT BOOTH PIT - 8" SLAB

SCALE: 1" = 1'-0"

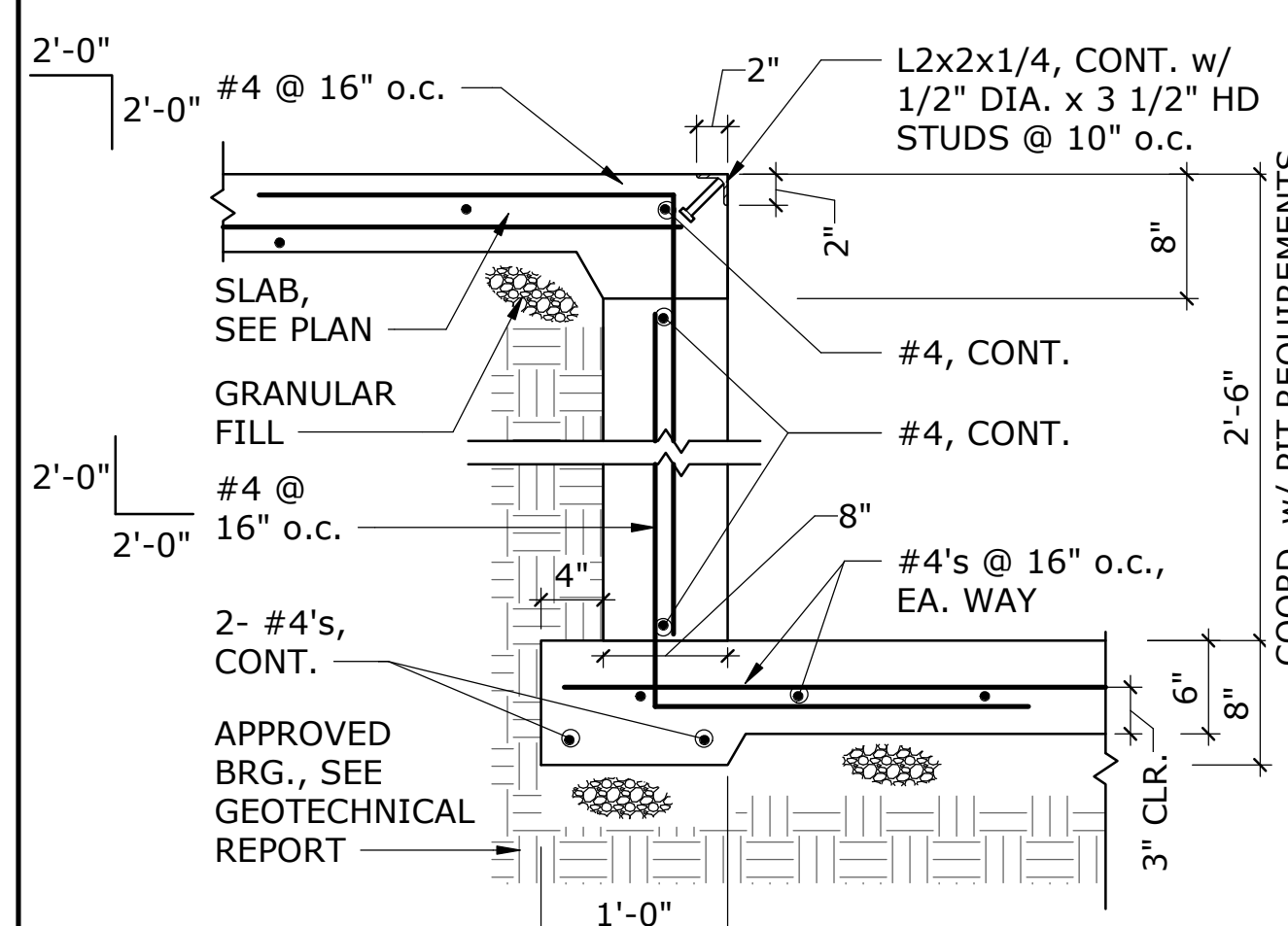
- NOTE:
- G.C. SHALL COORD. CLR. w/ PAINT BOOTH SUPPLIER.
 - 1/4" BENT PL. x 1 3/4 x 1 3/4 MAY BE USED IN LIEU OF L2x2 ANGLES.
 - SEE 11 / S1.1 & 9 / S1.1 FOR INFO NOT SHOWN.



SECTION @ PAINT BOOTH PIT

SCALE: 1" = 1'-0"

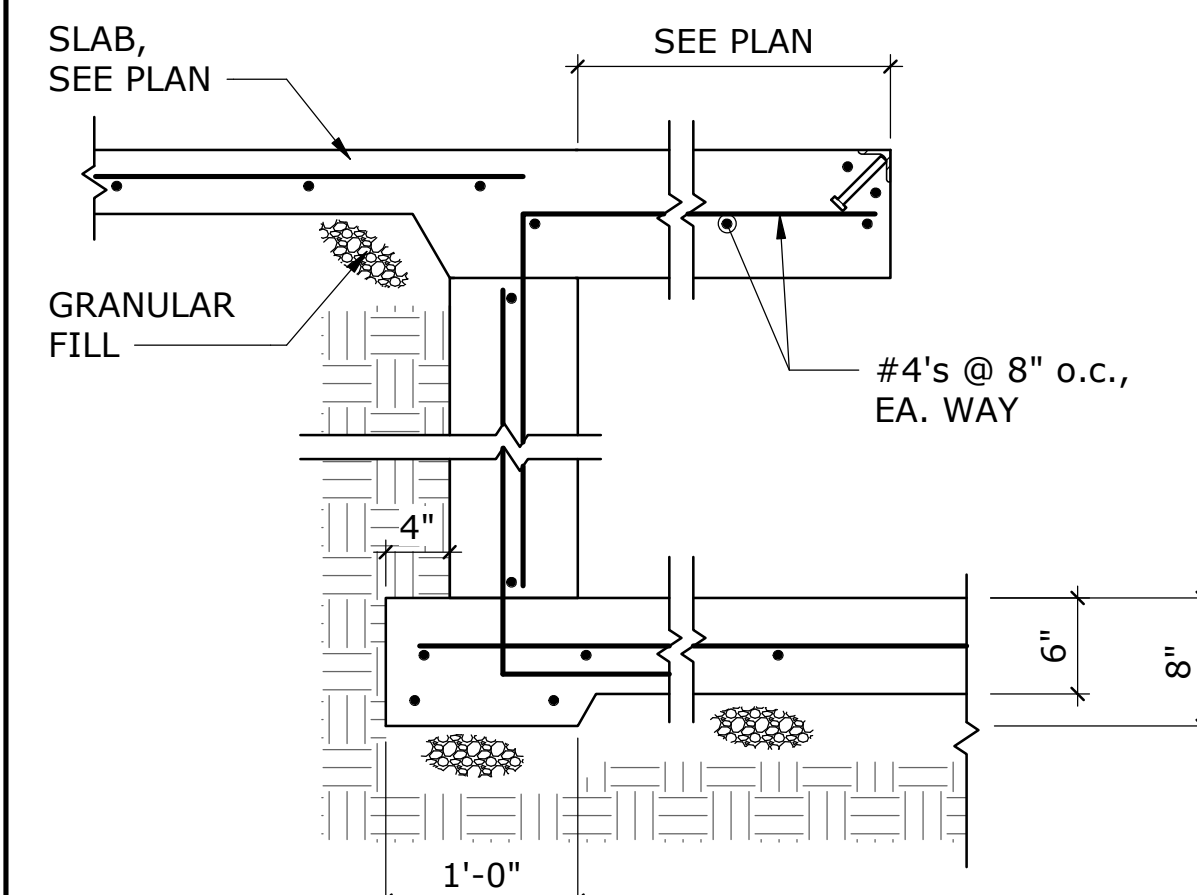
- NOTE:
- G.C. SHALL COORD. CLR. w/ PAINT BOOTH SUPPLIER.
 - 1/4" BENT PL. x 1 3/4 x 1 3/4 MAY BE USED IN LIEU OF L2x2 ANGLES.



SECTION @ PAINT BOOTH PIT

SCALE: 1" = 1'-0"

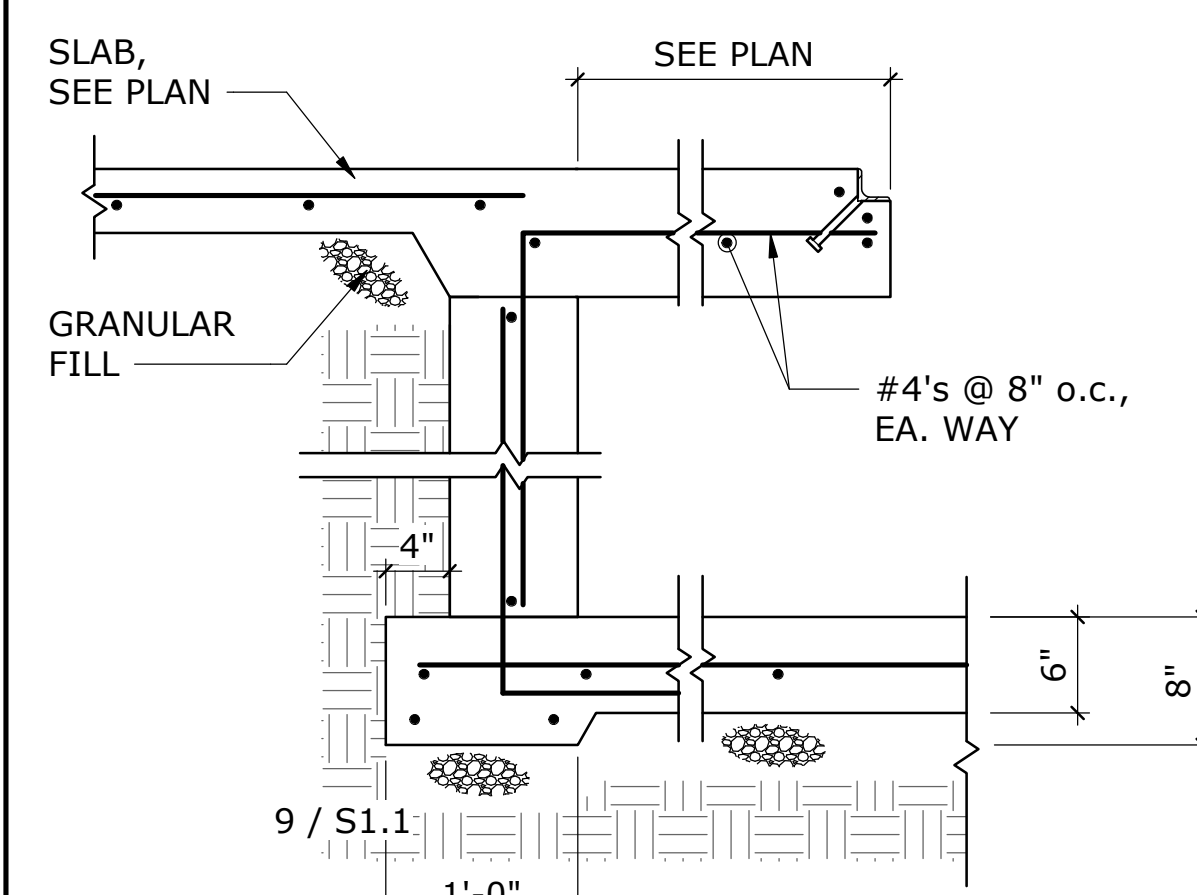
- NOTE:
- G.C. SHALL COORD. CLR. w/ PAINT BOOTH SUPPLIER.
 - 1/4" BENT PL. x 1 3/4 x 1 3/4 MAY BE USED IN LIEU OF L2x2 ANGLES.
 - SEE 12 / S1.1 & 9 / S1.1 FOR INFO NOT SHOWN.



SECTION @ PAINT BOOTH PIT

SCALE: 1" = 1'-0"

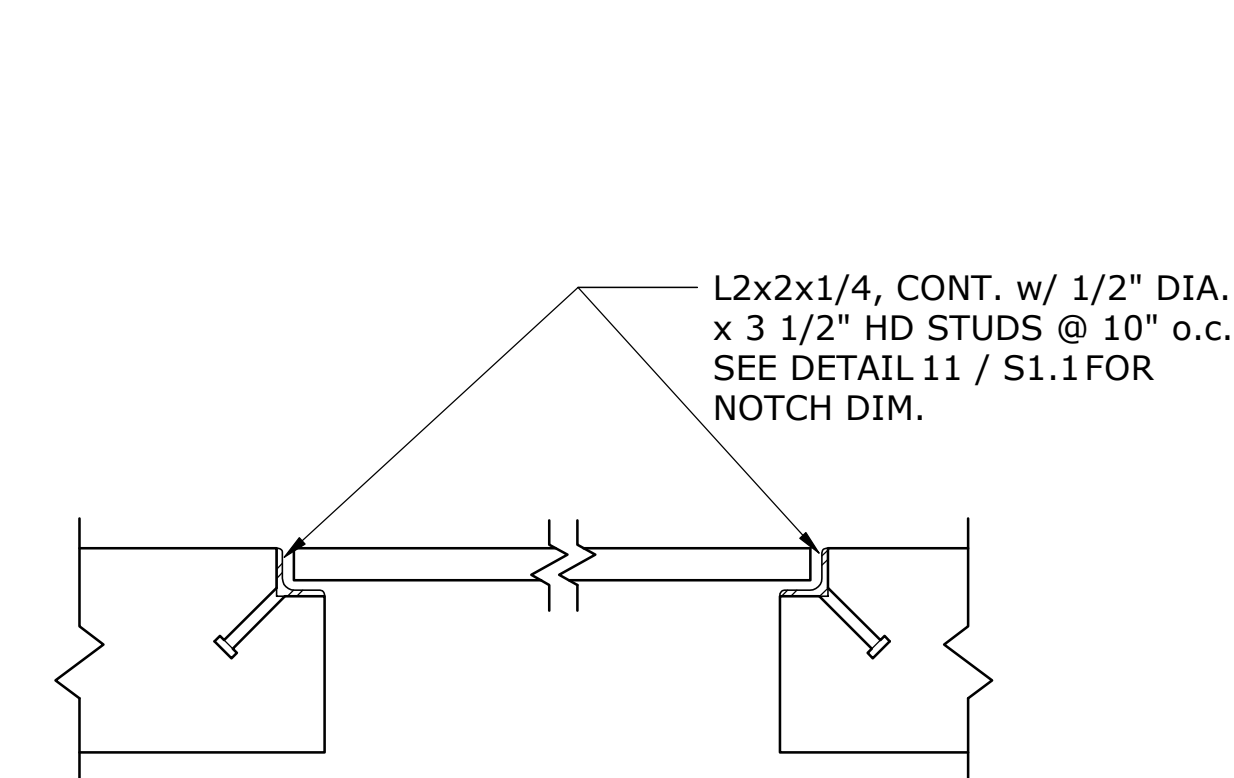
- NOTE:
- G.C. SHALL COORD. CLR. w/ PAINT BOOTH SUPPLIER.
 - 1/4" BENT PL. x 1 3/4 x 1 3/4 MAY BE USED IN LIEU OF L2x2 ANGLES.
 - SEE 11 / S1.1 & 9 / S1.1 FOR INFO NOT SHOWN.



SECTION @ PAINT BOOTH PIT

SCALE: 1" = 1'-0"

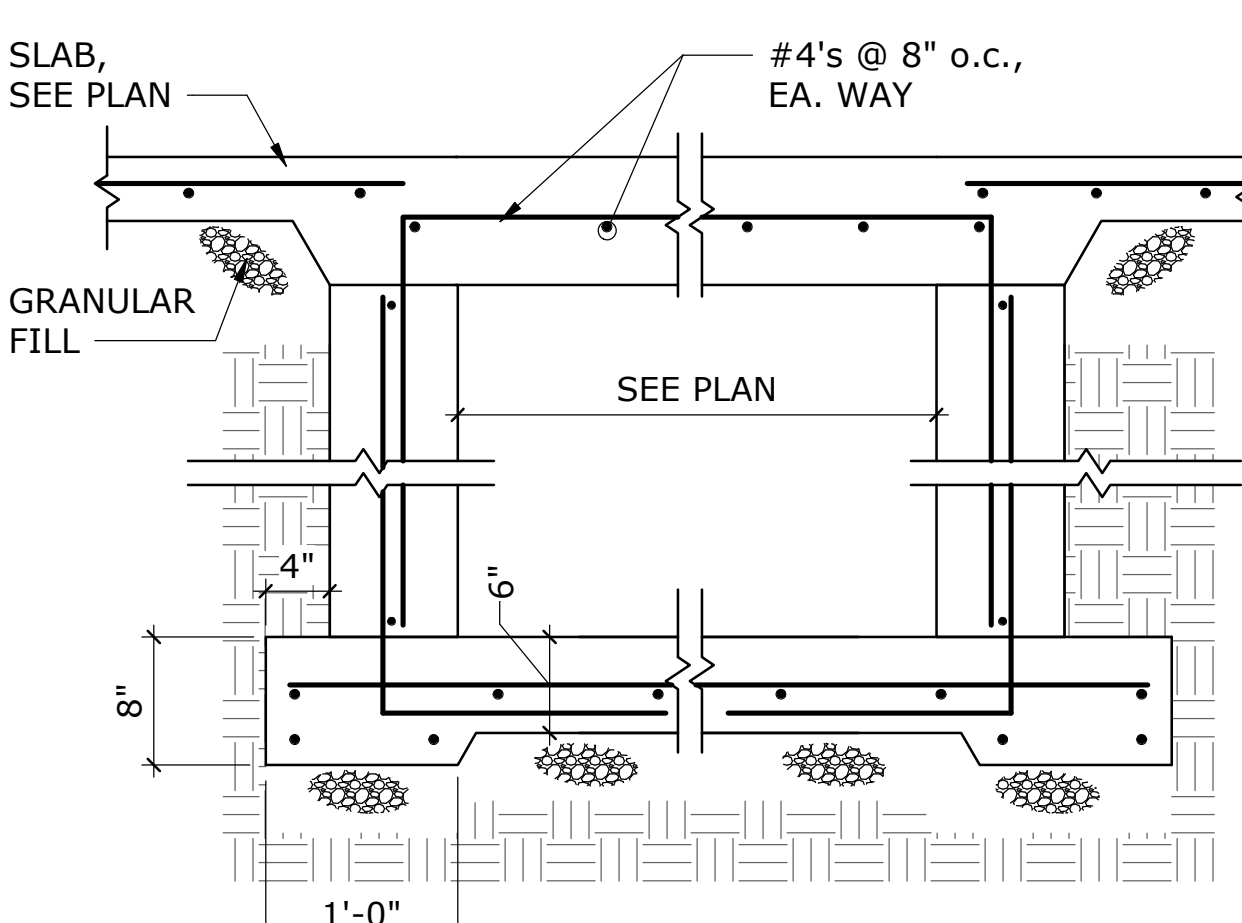
- NOTE:
- G.C. SHALL COORD. CLR. w/ PAINT BOOTH SUPPLIER.
 - 1/4" BENT PL. x 1 3/4 x 1 3/4 MAY BE USED IN LIEU OF L2x2 ANGLES.



SECTION @ PAINT BOOTH PIT

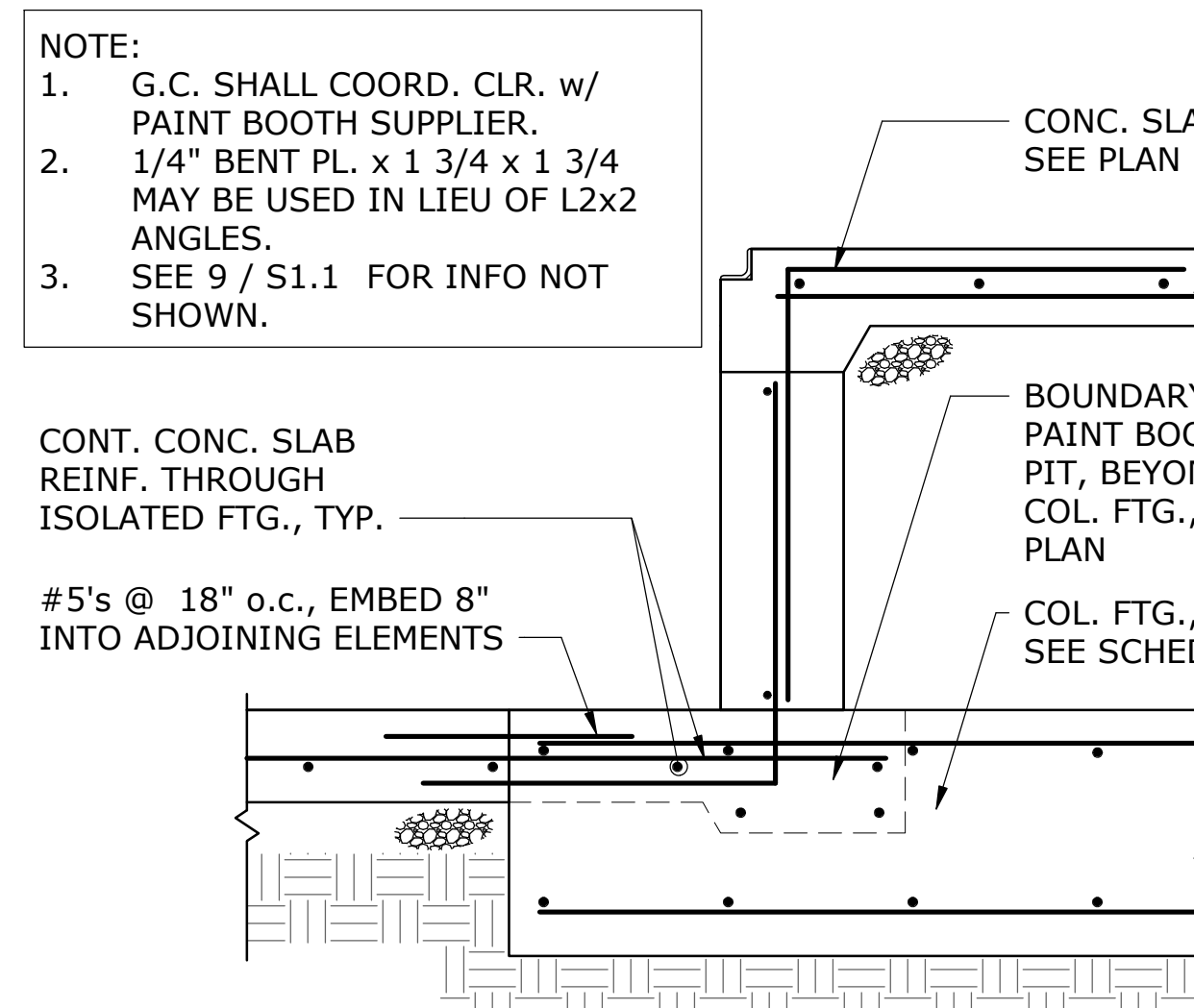
SCALE: 1 1/2" = 1'-0"

- NOTE:
- G.C. SHALL COORD. CLR. w/ PAINT BOOTH SUPPLIER.
 - SEE 12 / S1.1 & 9 / S1.1 FOR INFO NOT SHOWN.



SECTION @ PAINT BOOTH PIT

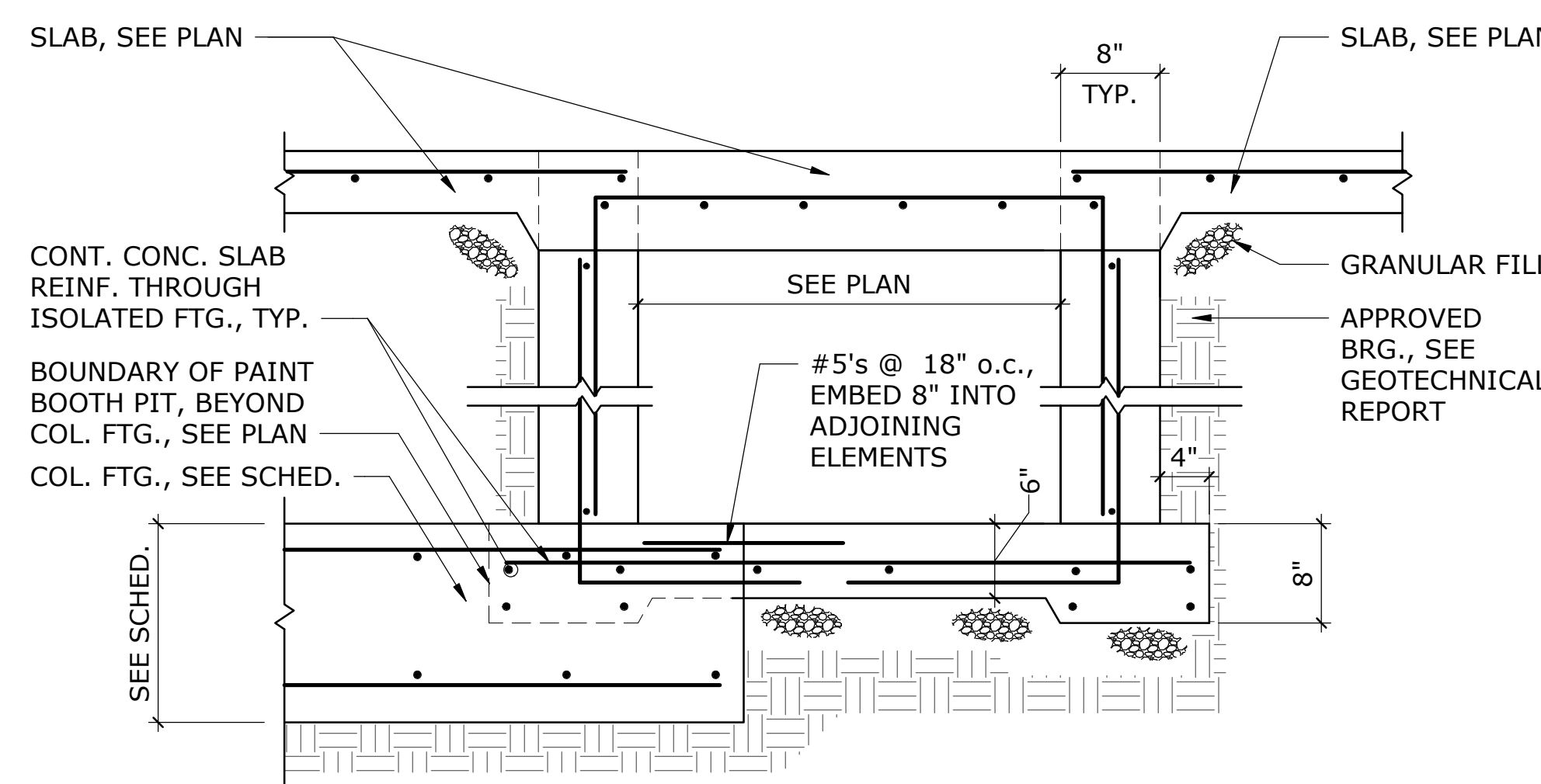
SCALE: 1" = 1'-0"



SECTION @ PAINT BOOTH PIT / EXT. COL. FTG.

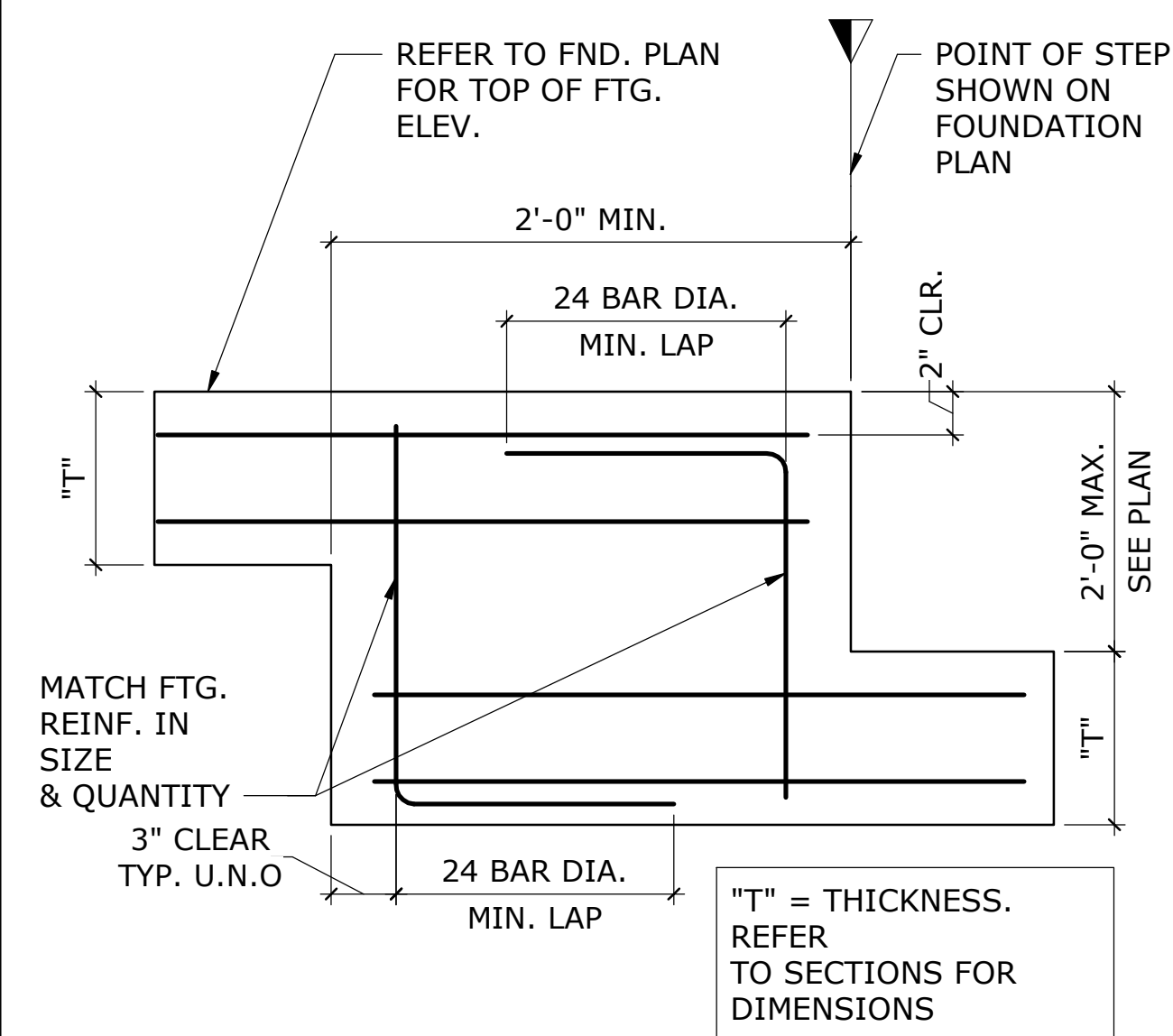
SCALE: 1" = 1'-0"

- NOTE:
- G.C. SHALL COORD. CLR. w/ PAINT BOOTH SUPPLIER.
 - SEE 9 / S1.1 & 19 / S1.1 FOR INFO NOT SHOWN. EXTEND PAINT BOOTH PIT REINF. THROUGH COL. FTG. REINF. IN ADDITION TO FTG. REINF. NOTED IN THE FTG. SCHED.
 -

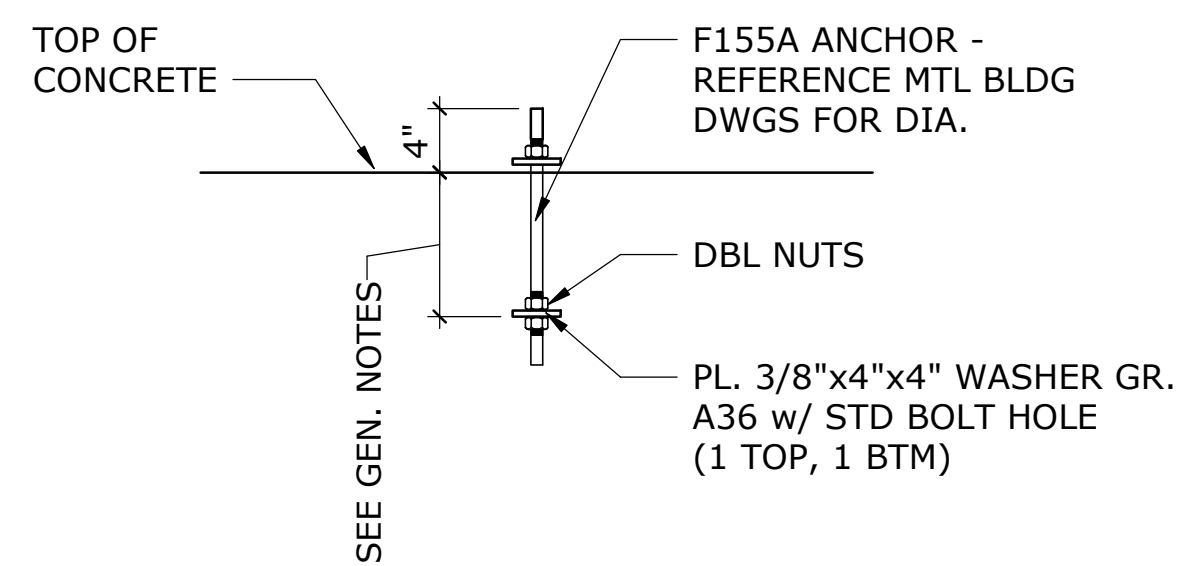


SECTION @ PAINT BOOTH PIT / COL. FTG.

SCALE: 1" = 1'-0"

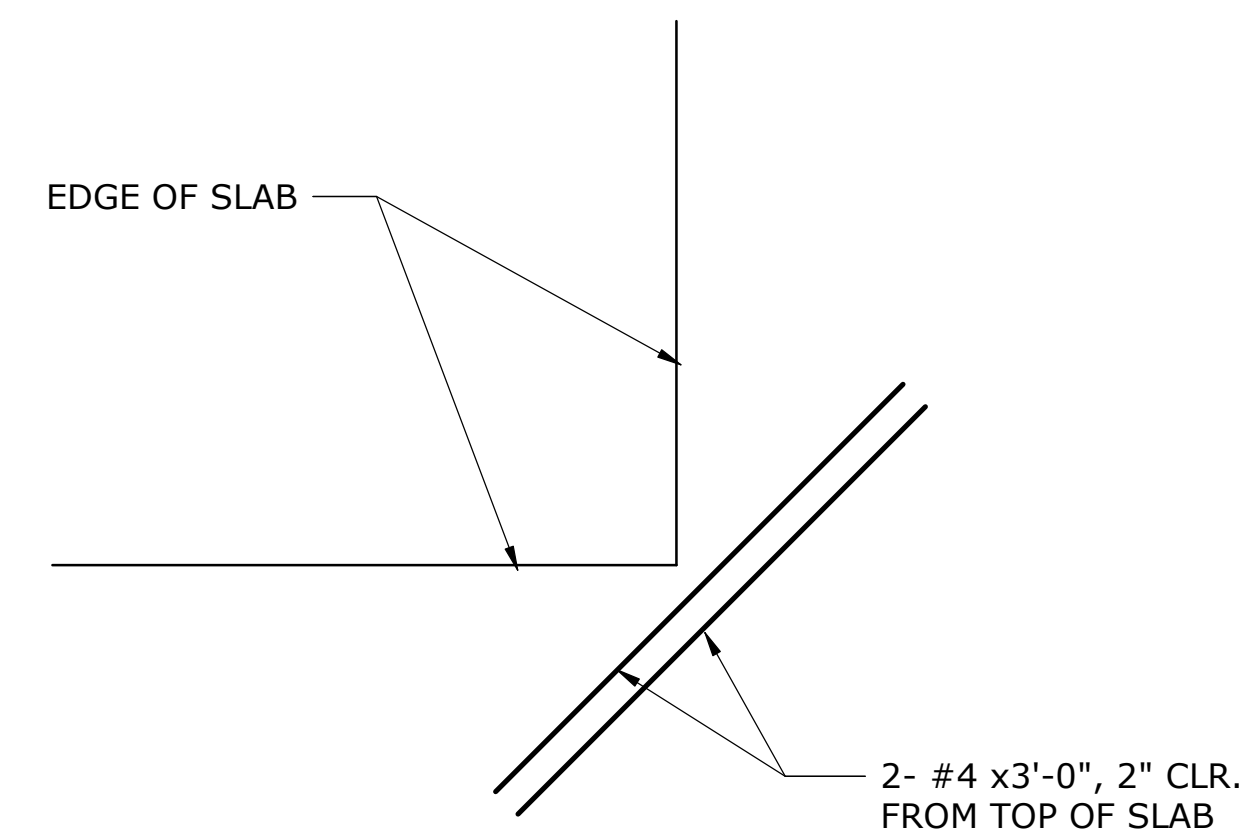


20 TYP. STEPPED FOOTING
SCALE: NONE

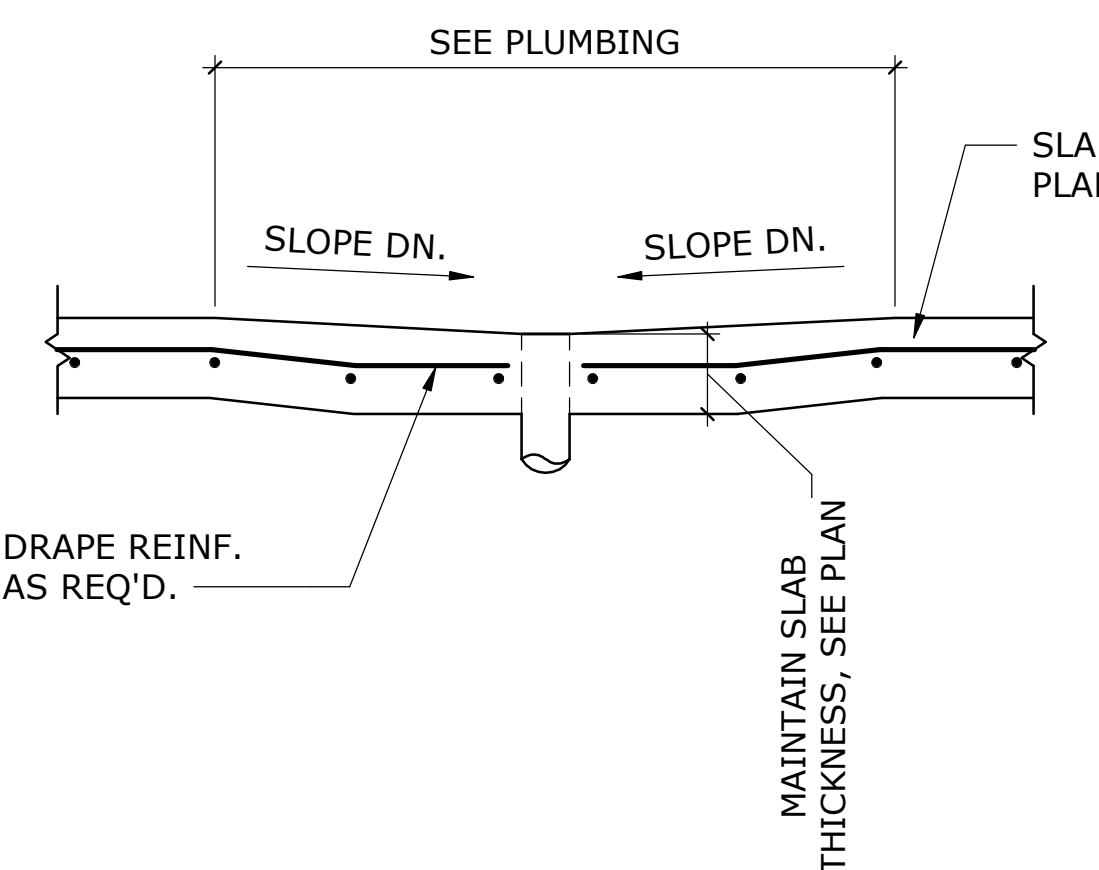


- NOTES:
1. COORDINATE/VERIFY COLUMN LOCATION & ANCHOR RODS w/ ARCH & BUILDING VENDOR.
 2. PROVIDE QUANTITY OF ANCHOR RODS TO MATCH BASE PLATE CONFIGURATION FURNISHED BY BUILDING VENDOR.
 3. SET ANCHOR RODS WITH TEMPLATE PROVIDED BY VENDOR.

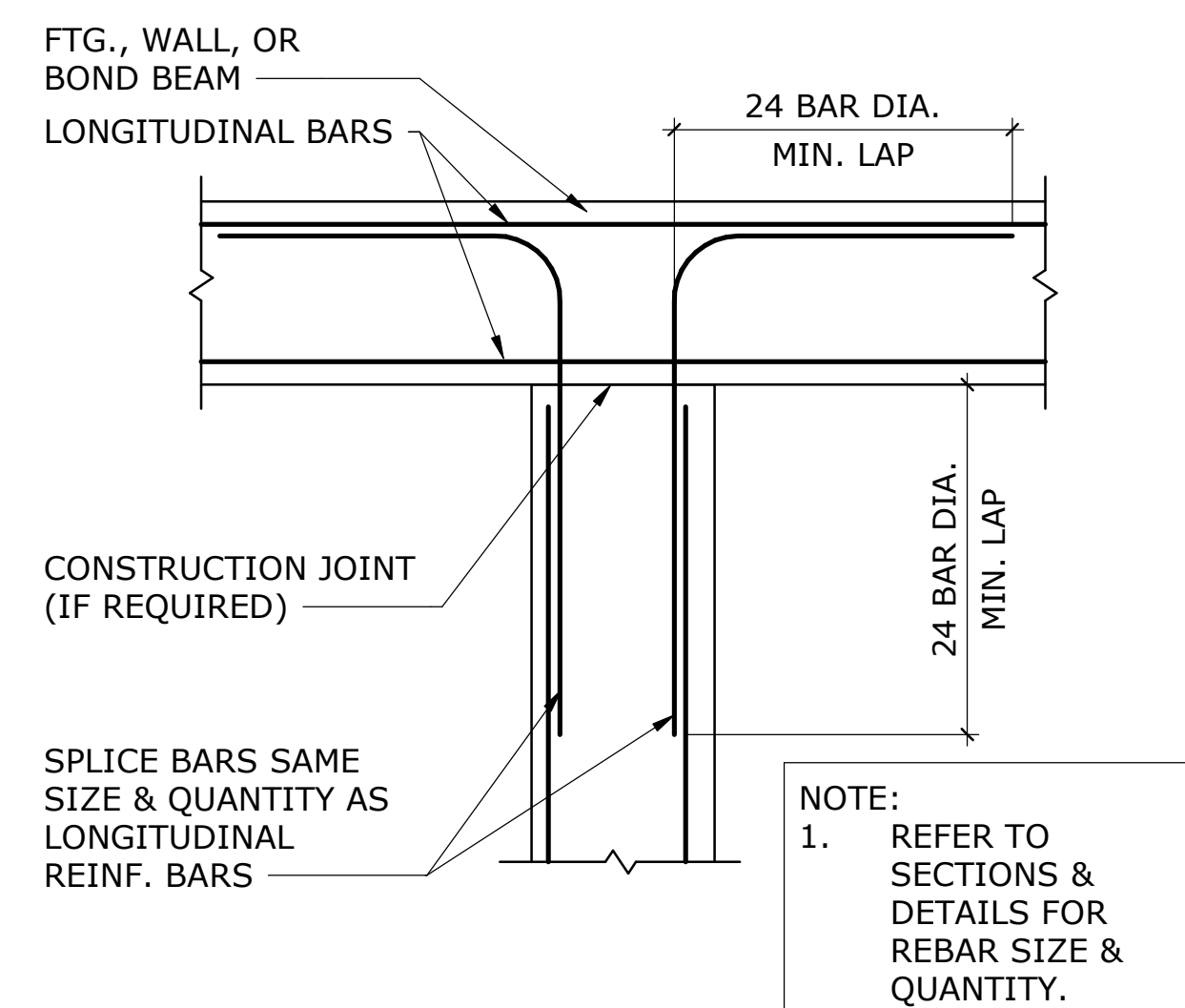
12 SECTION @ A.B.
SCALE: NONE



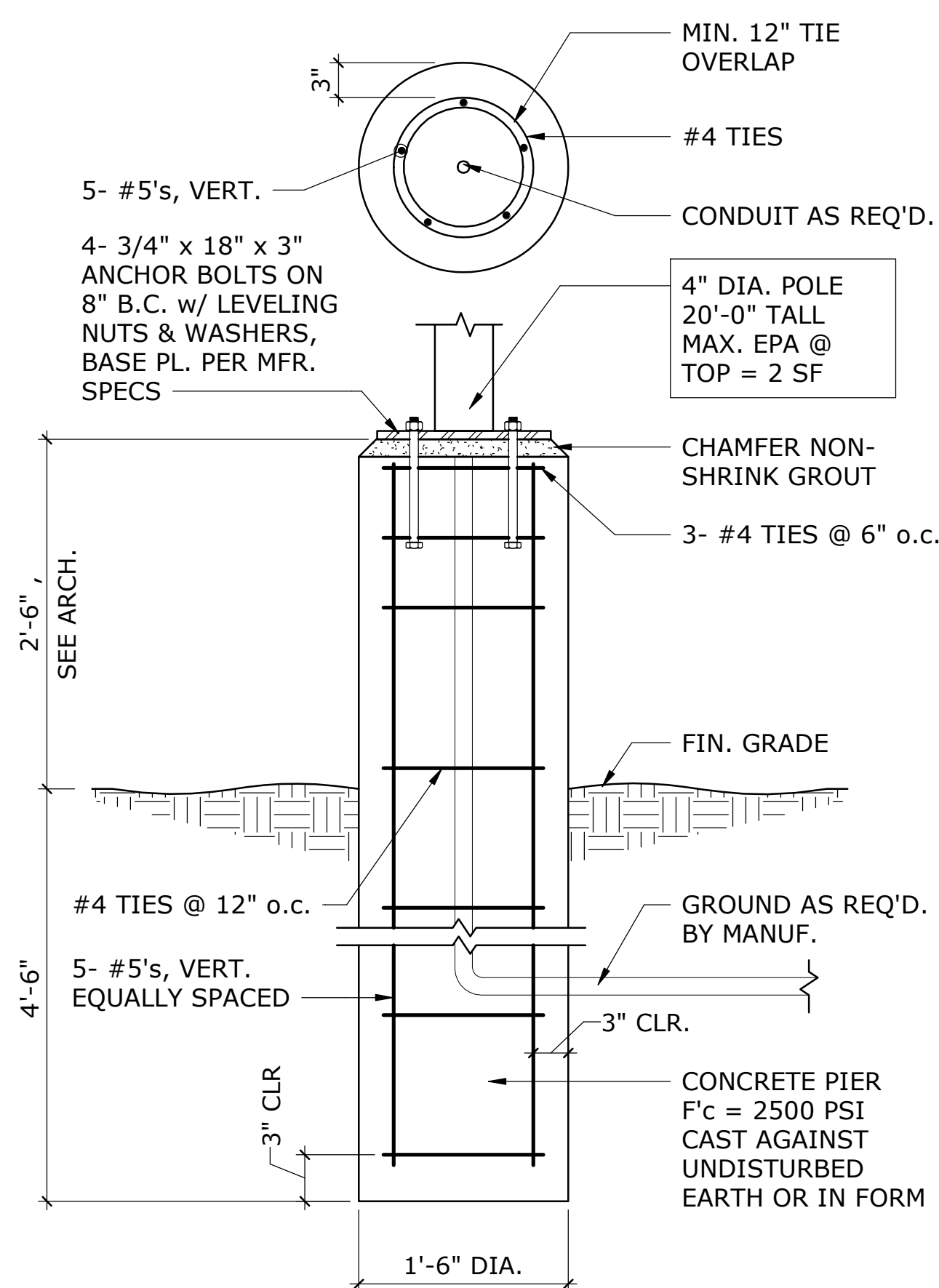
8 SLAB RE-ENTRANT REINF.
SCALE: 1" = 1'-0"



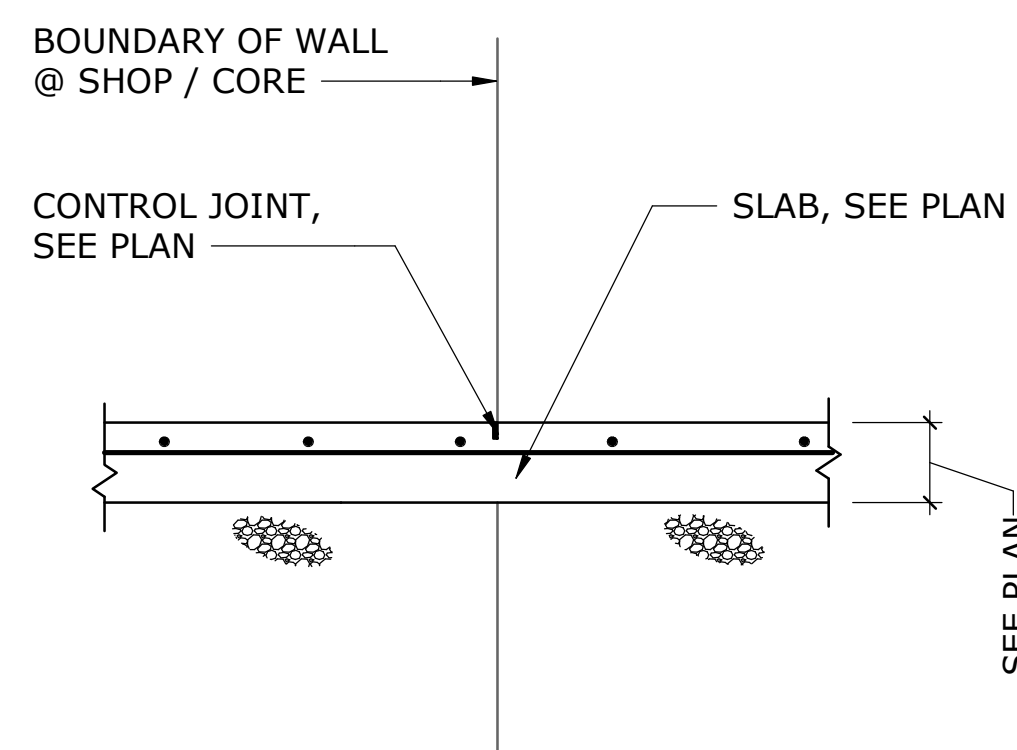
7 SECTION @ FLOOR DRAIN
SCALE: NONE



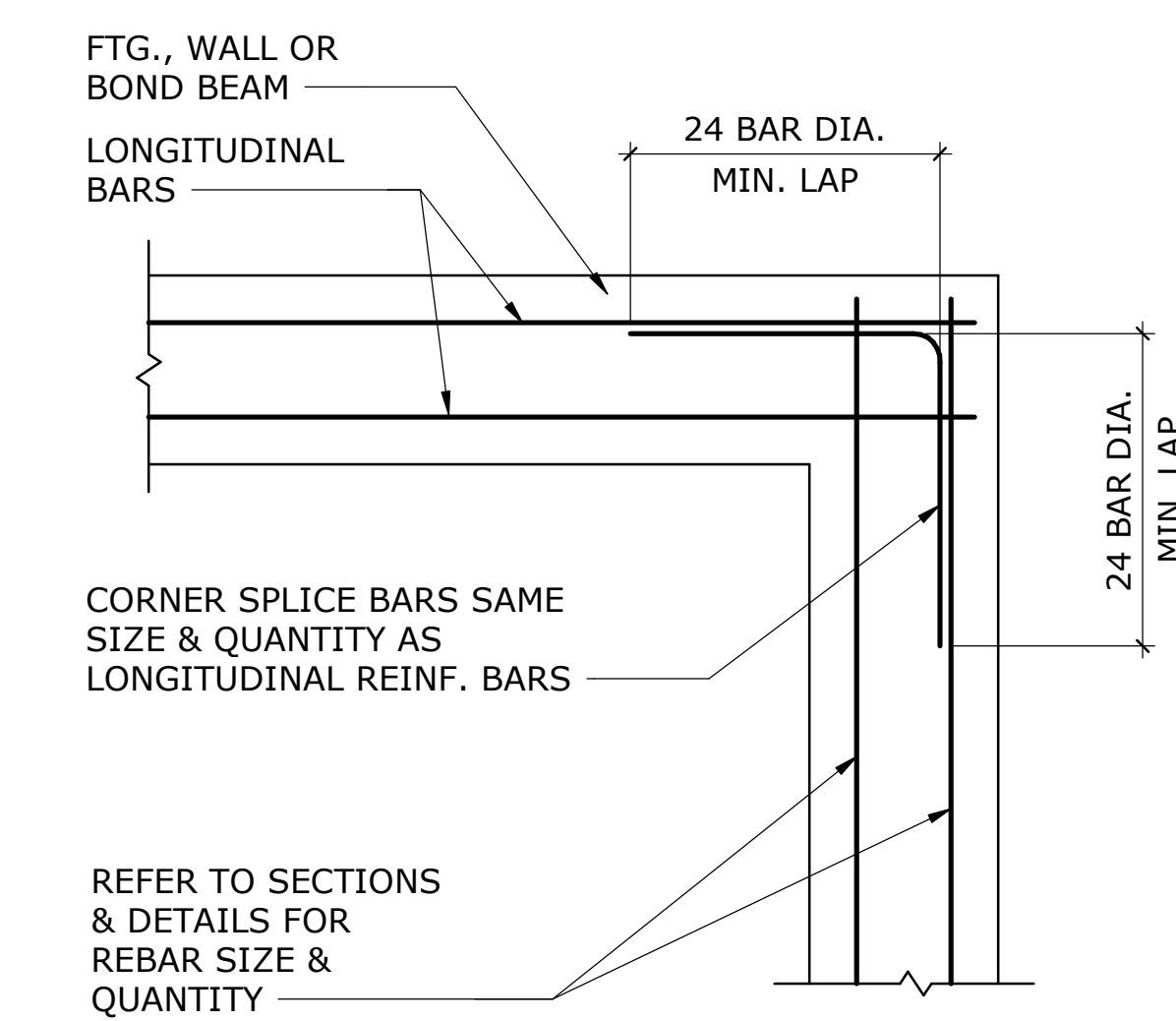
3 TYP. CONTINUITY INT.
SCALE: NONE



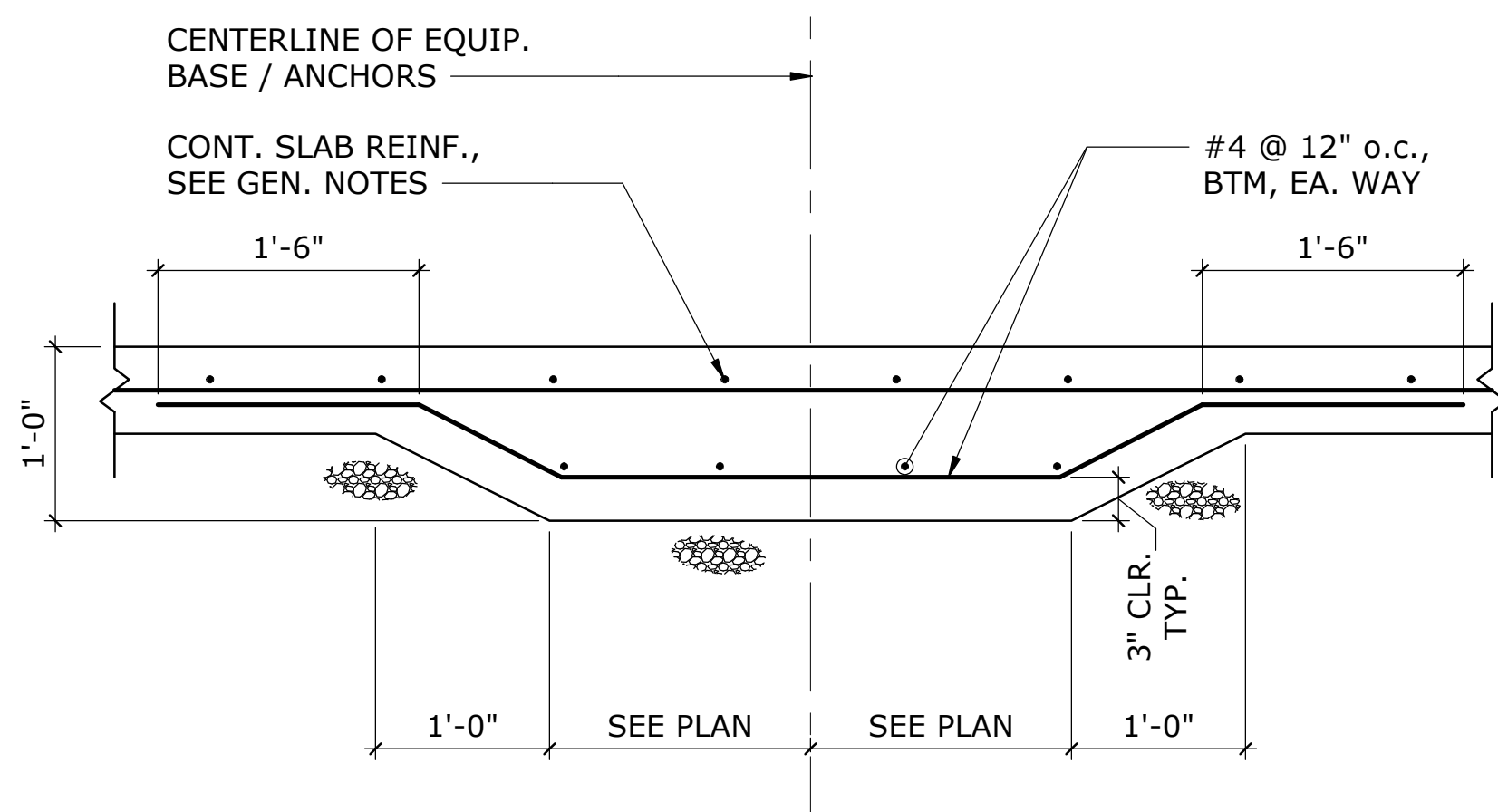
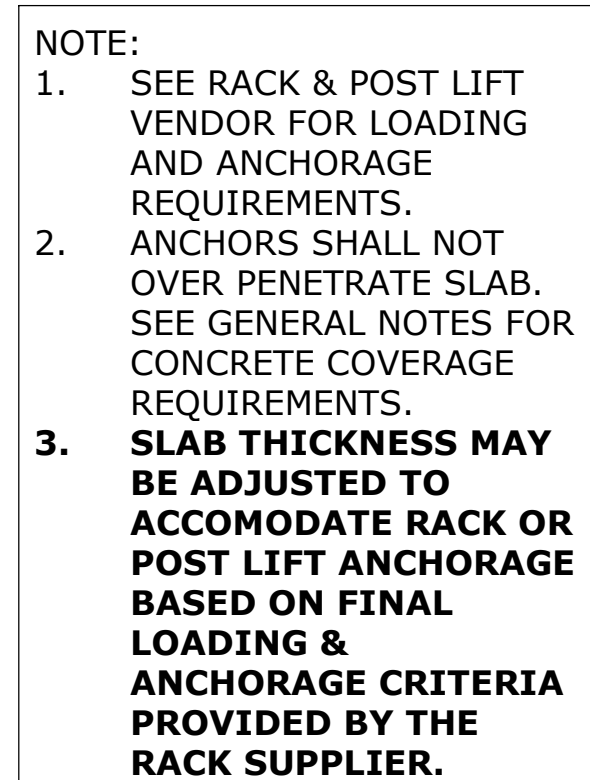
14 SECTION @ LIGHT POLE BASE
SCALE: 1" = 1'-0"



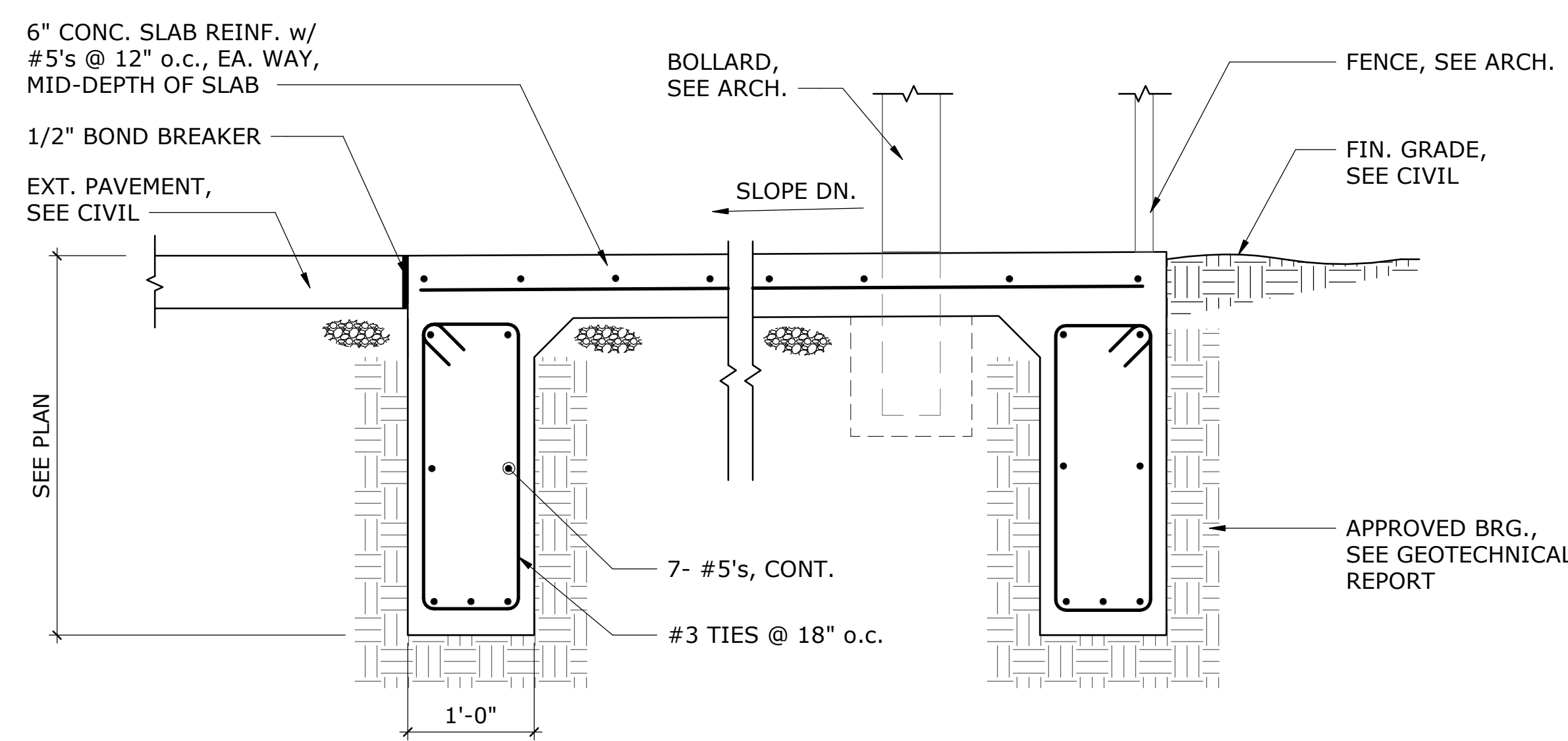
SECTION @ SLAB TRANSITION @
 ⑥ SHOP TO OFFICE
 SCALE: 1" = 1'-0"



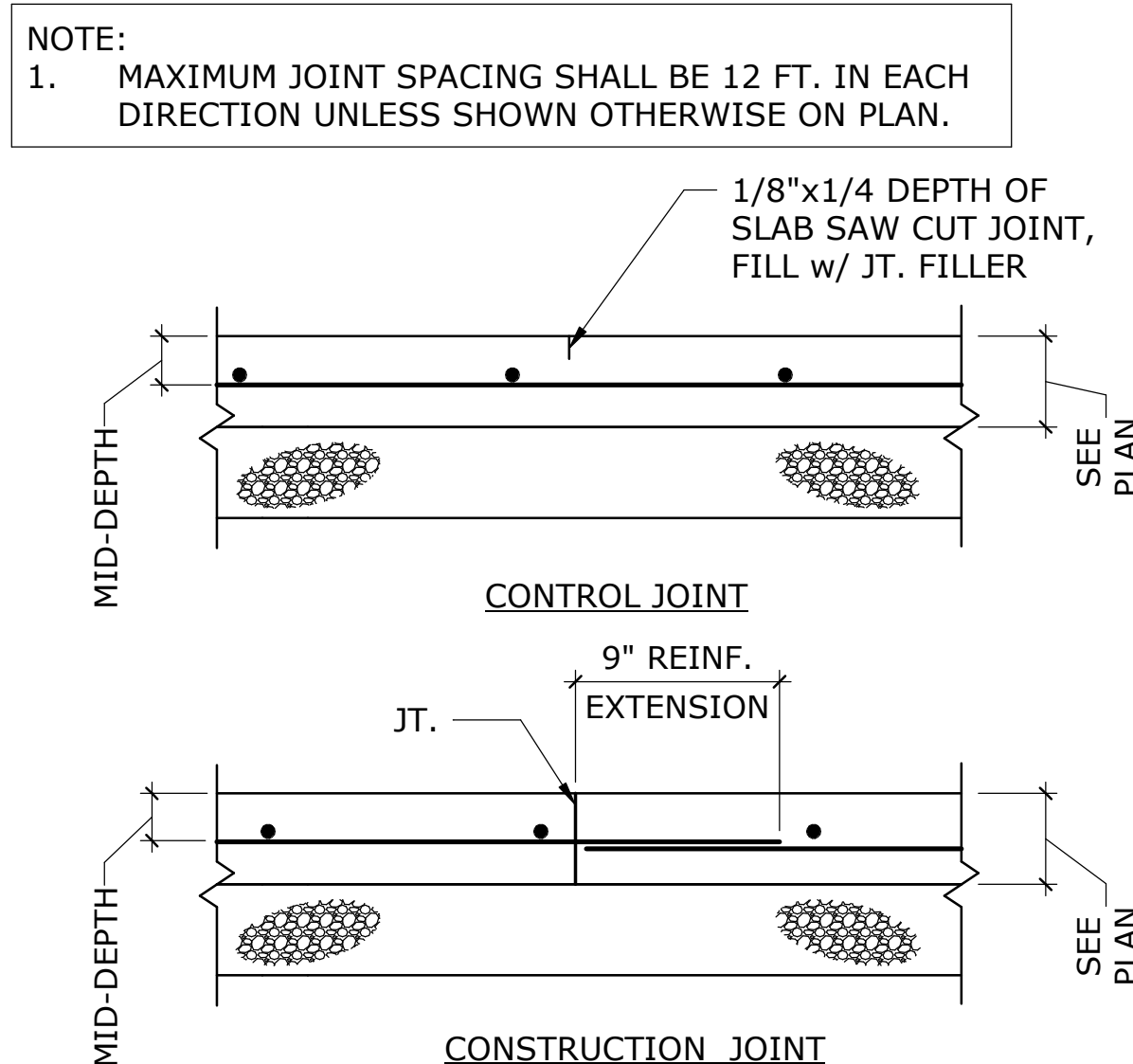
2 TYP. CONTINUITY CORNER
SCALE: NONE



SECTION @ THICKENED SLAB @
POST LIFT
SCALE: 1" = 1'-0"



9 SECTION @ DUMPSTER PAD
SCALE: 1" = 1'-0"



1 SLAB ON GRADE JOINTS



CALIBER COLLISION

LEES SUMMIT,
MISSOURI

Frederick A. Weis, Jr., P.E.
214 Overlook Circle, Suite 201
Brentwood, TN 37027
ph. 615.953.9474
fax: 615.658.8145

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Job Number: 2118

Date: 12.10.2021

Revisions:

Revisions: 

Revisions:

Revisions:

FOUNDATION DETAILS

Sheet Number: S2.0



OXFORD
ARCHITECTURE

2934 Sidco Drive
Suite 120
Nashville, TN 37204
Architecture
Planning
Interior Architecture



CALIBER
COLLISION

LEES SUMMIT,
MISSOURI

Frederick A. Weis, Jr., P.E.

214 Overlook Circle, Suite 201
Brentwood, TN 37027
ph. 615.953.9474
fax: 615.658.8145

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Date: 12.10.2021

Revisions:

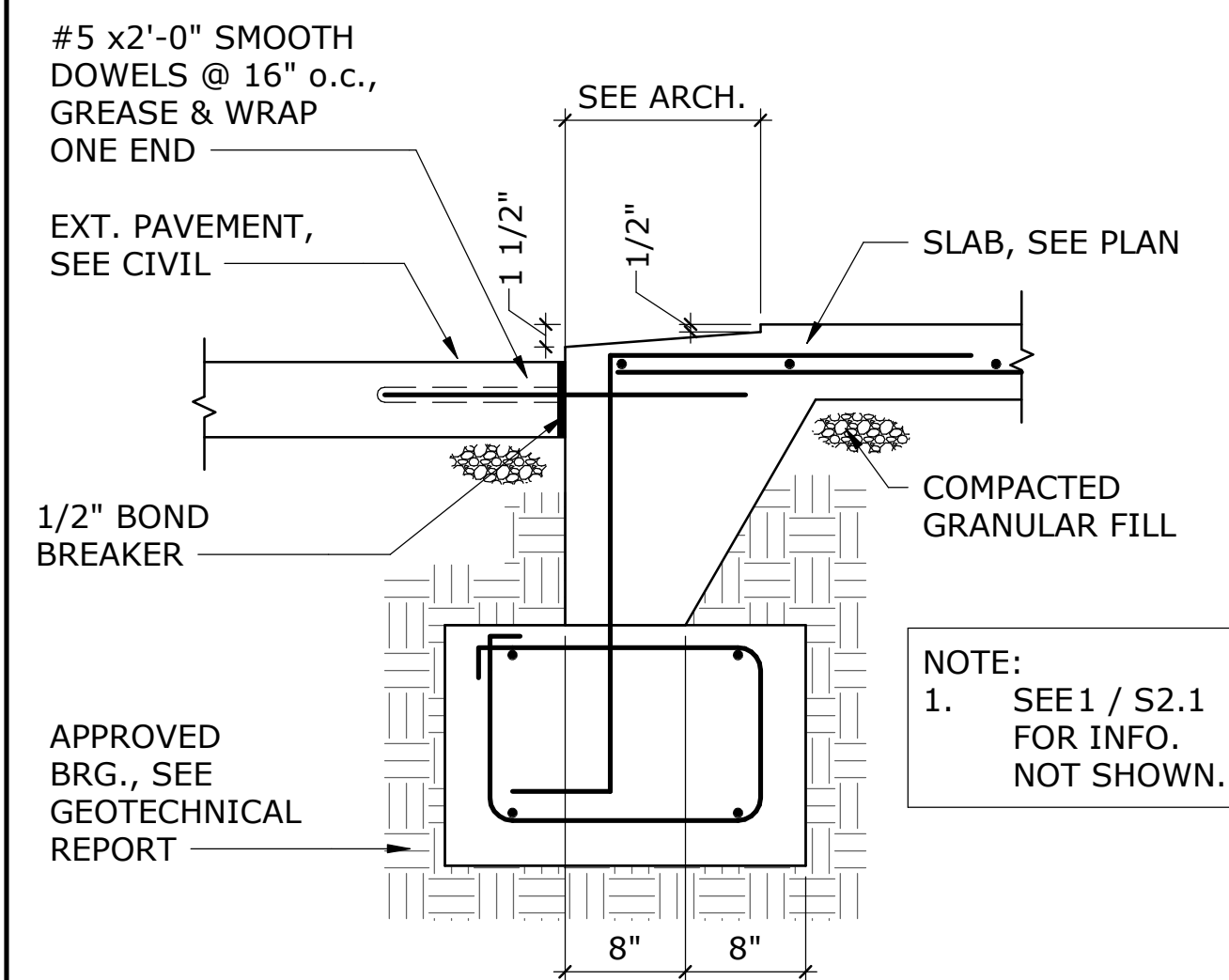
Revisions:

Revisions:

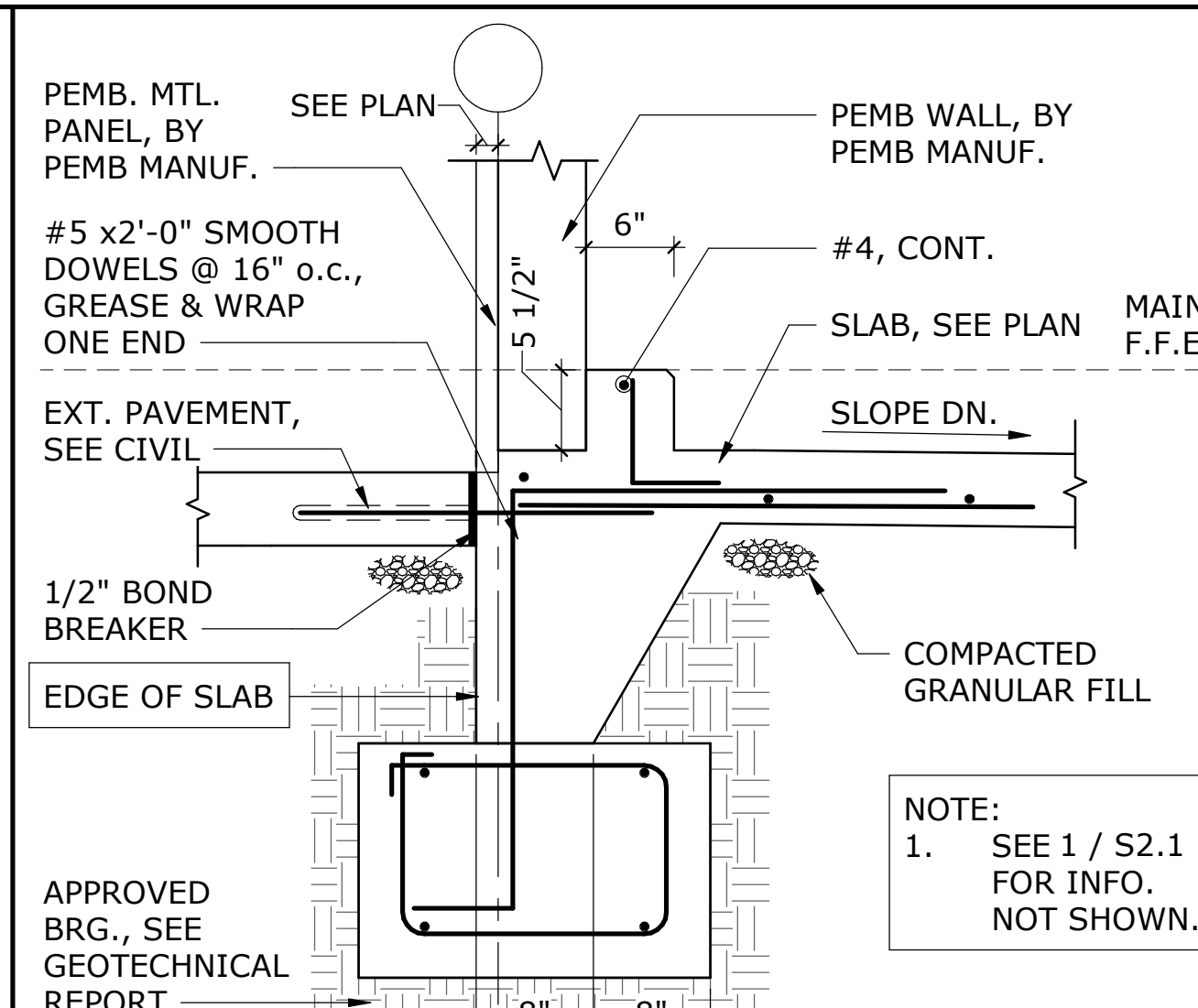
FOUNDATION DETAILS

Sheet Number: S2.1

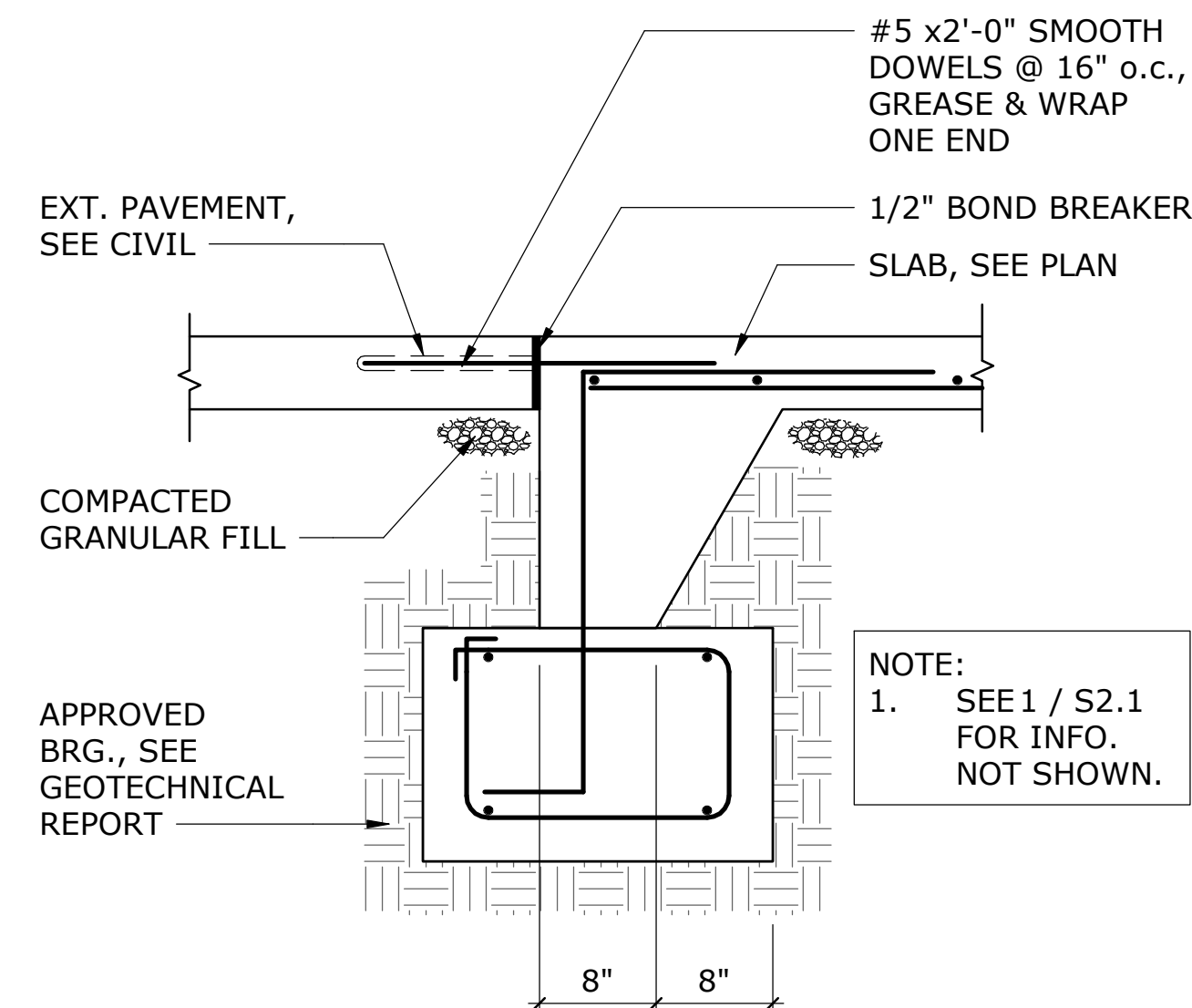
WE-21129



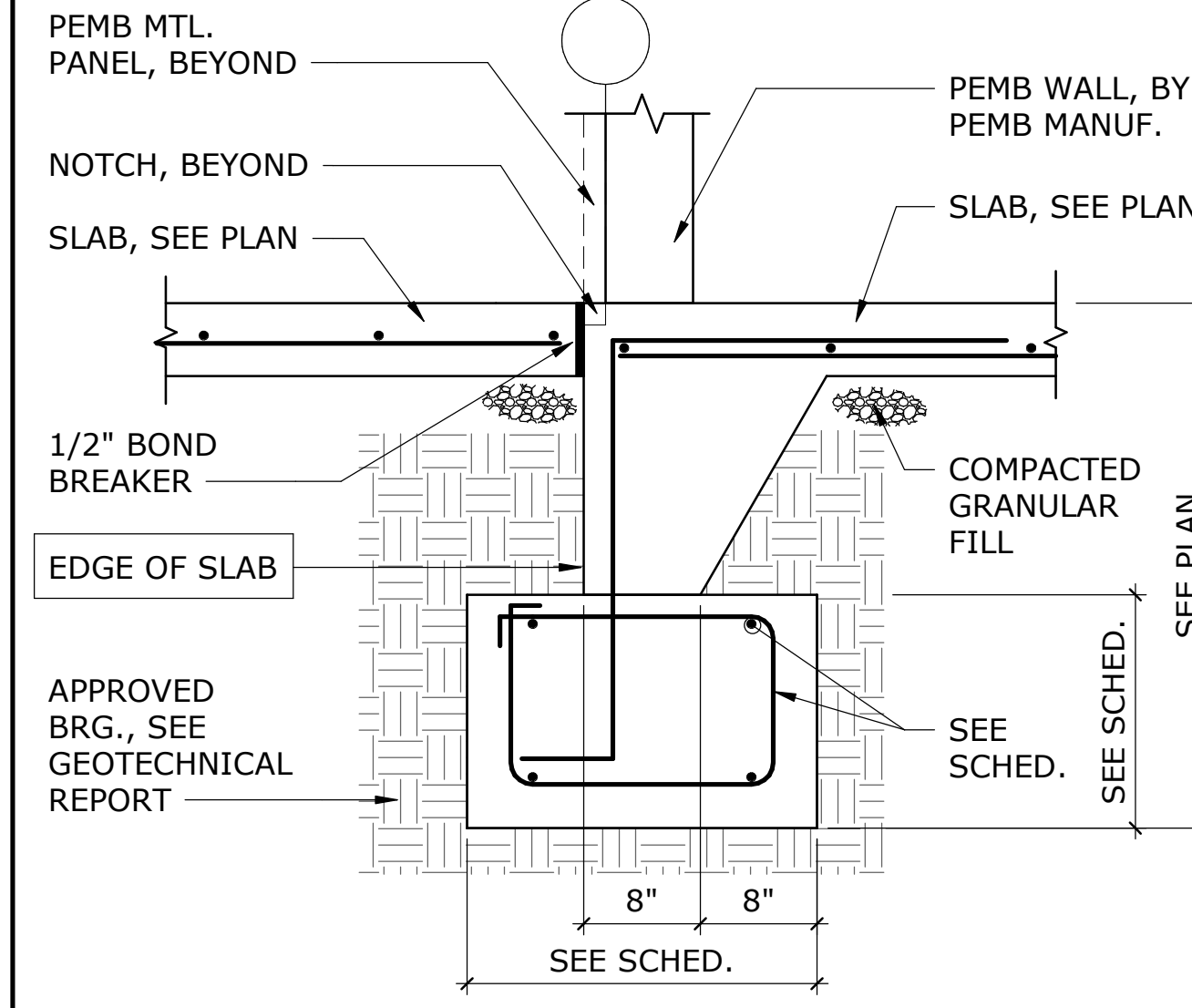
8 SECTION @ O.H. DOOR
SCALE: 1" = 1'-0"



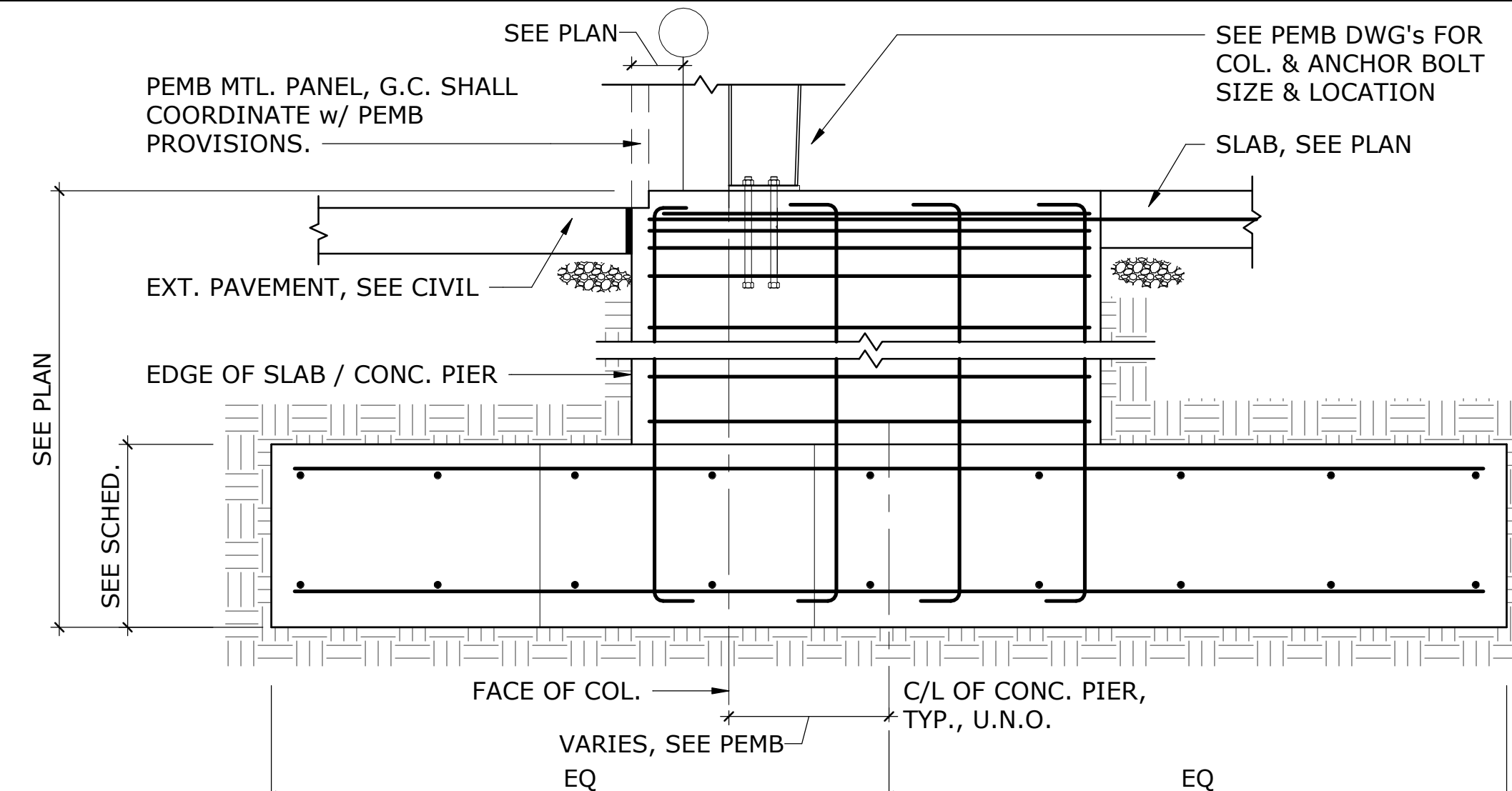
4 SECTION @ EXT. WALL @ DETAIL BAY
SCALE: 1" = 1'-0"



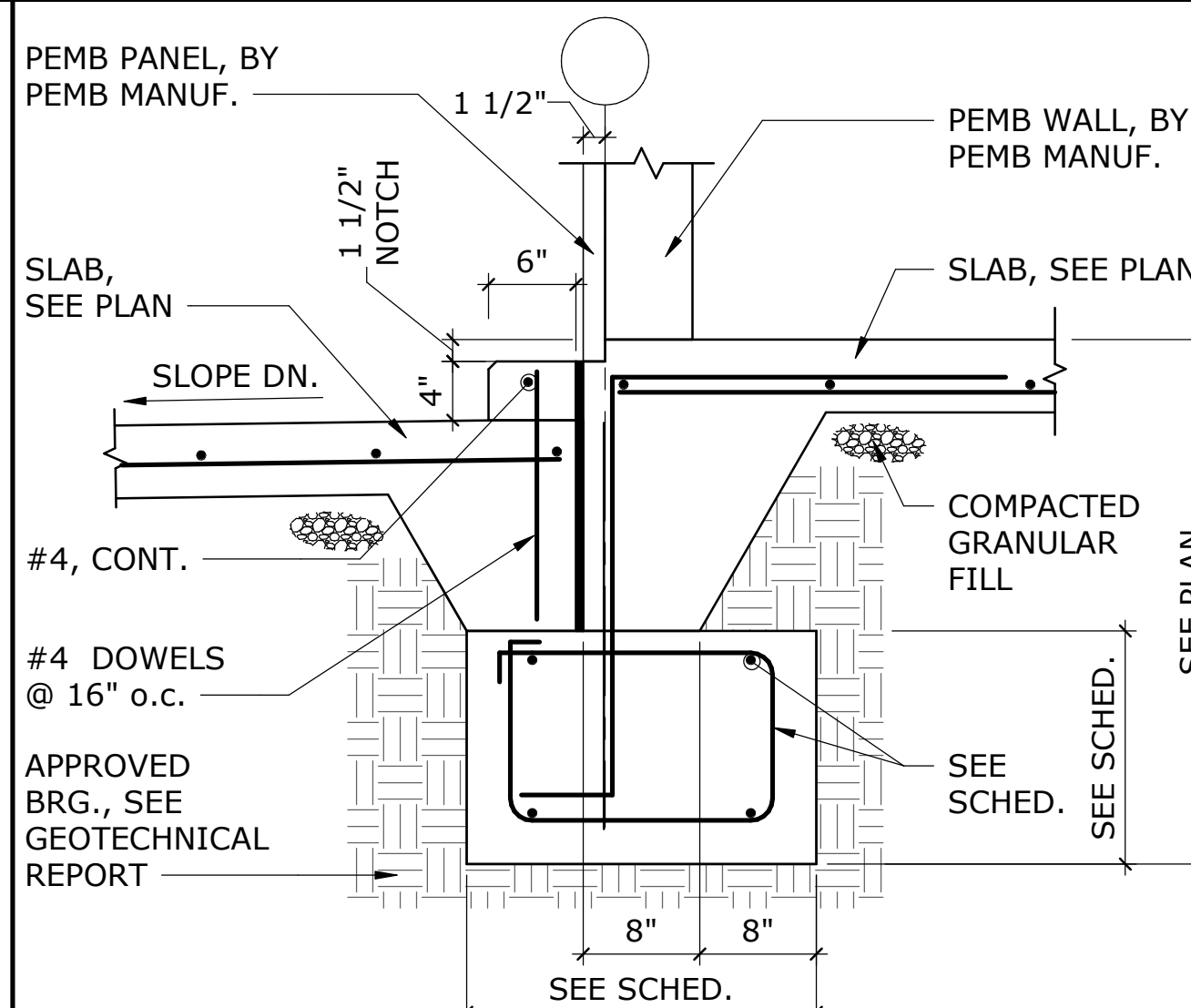
11 SECTION @ EXT. DOOR
SCALE: 1" = 1'-0"



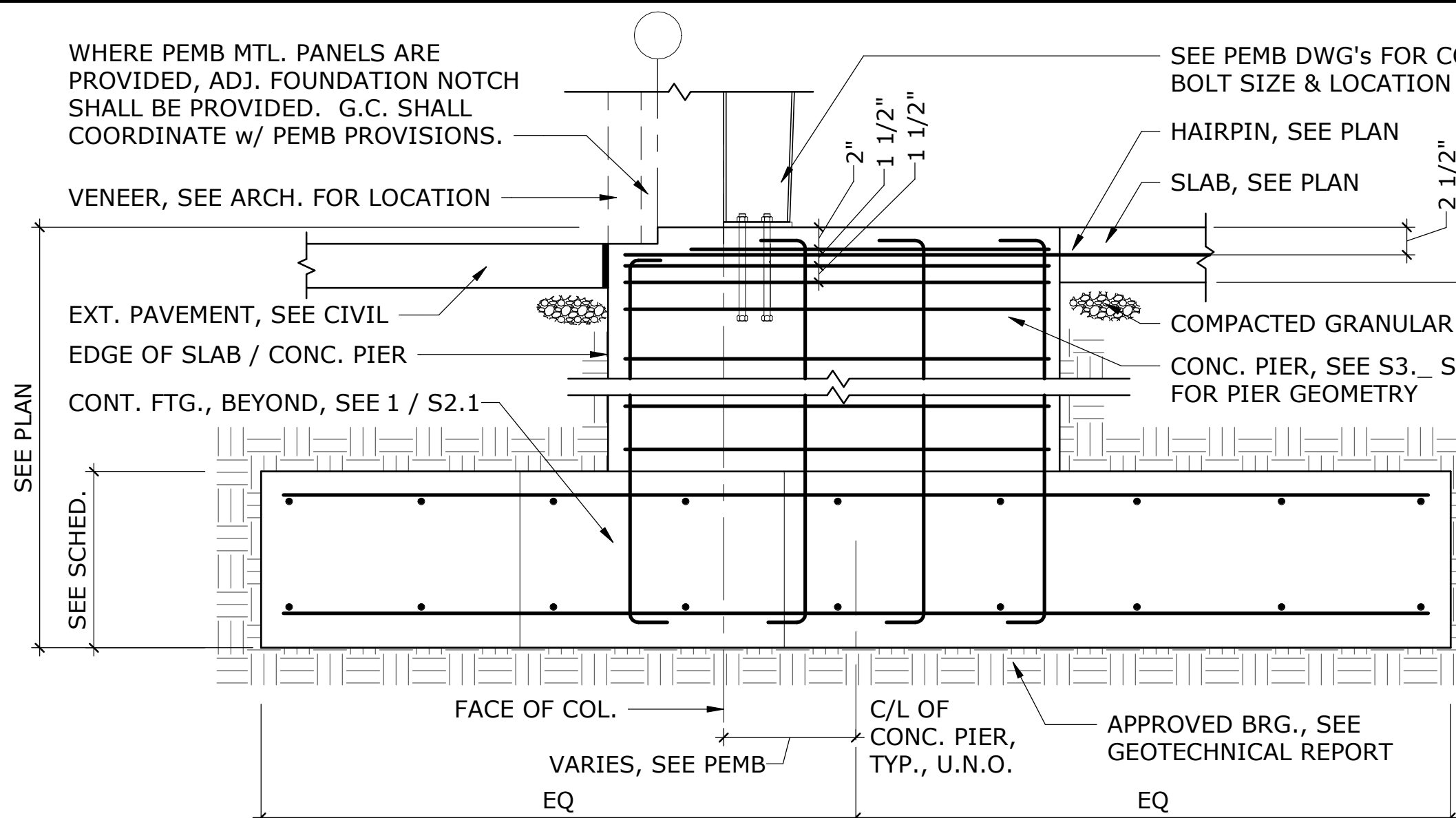
3 SECTION @ MAIN BLDG. / EQUIPMENT BAY
SCALE: 1" = 1'-0"



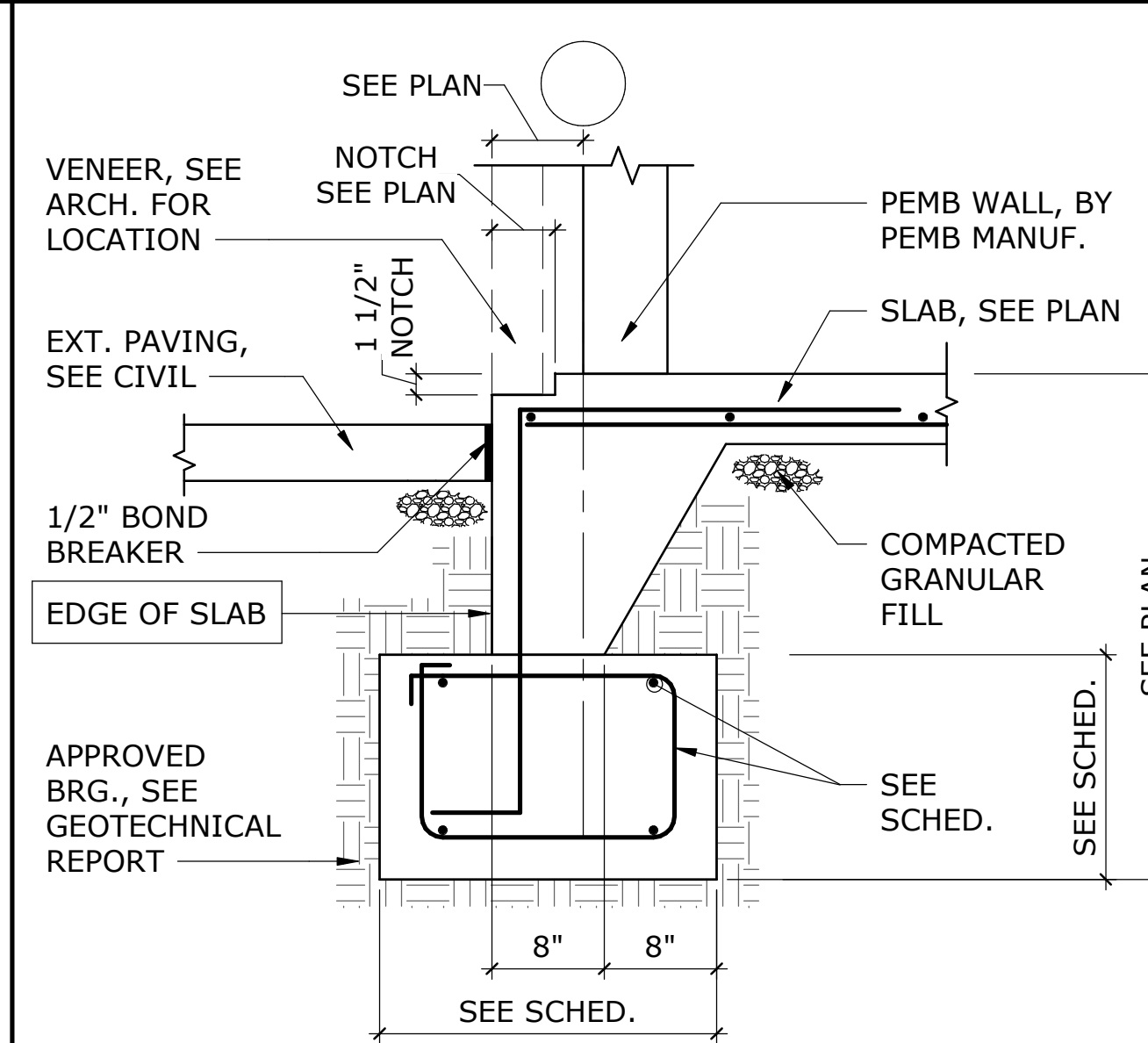
10 SECTION @ EXT. COL. @ MTL. PANEL
SCALE: 1" = 1'-0"



2 SECTION @ MAIN BLDG. / DETAIL BAY
SCALE: 1" = 1'-0"



9 SECTION @ EXT. COL. @ VENEER
SCALE: 1" = 1'-0"



1 SECTION @ EXT. WALL
SCALE: 1" = 1'-0"



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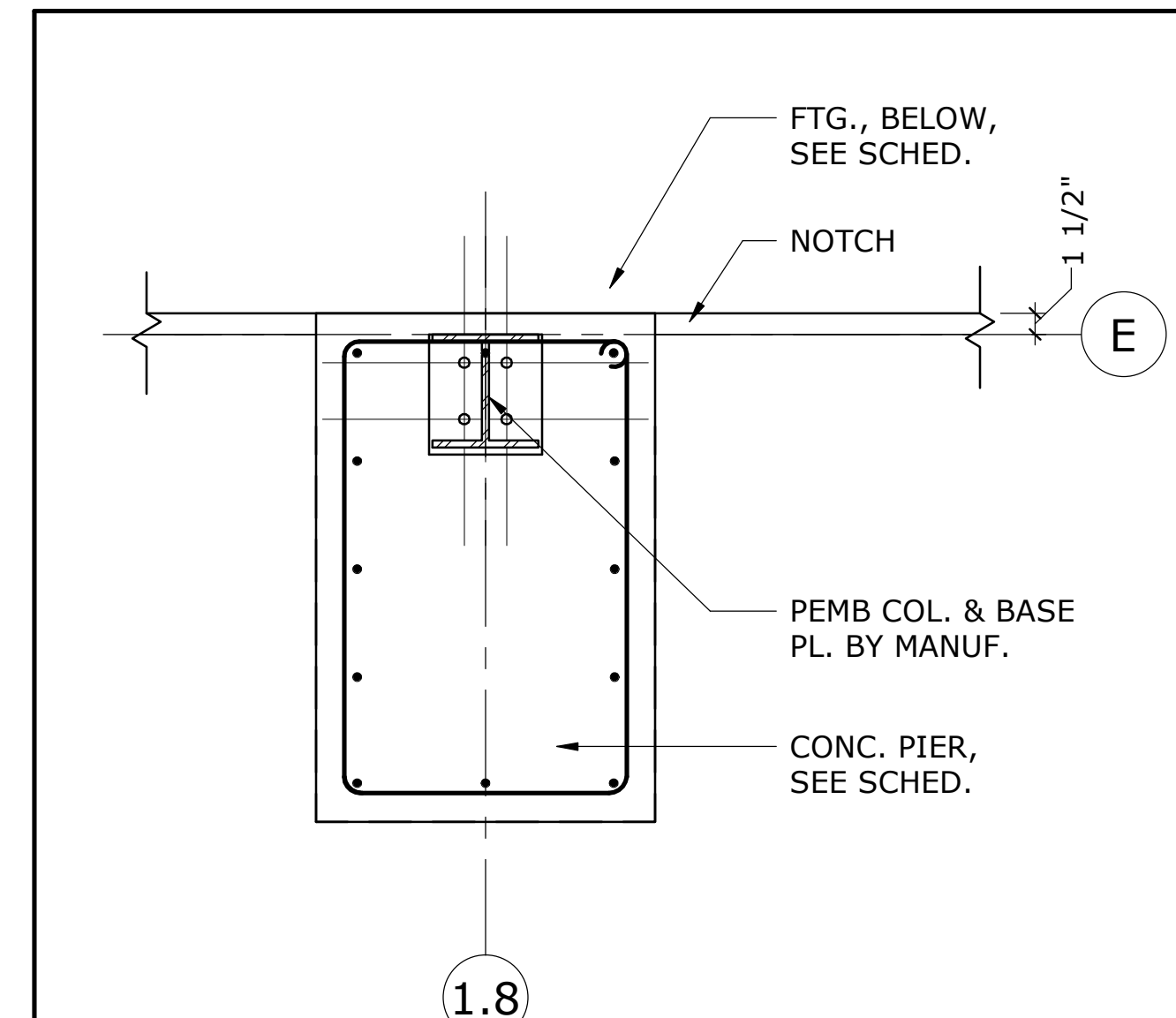
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MISSOURI

Frederick A. Weis, Jr., P.E.
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Brentwood, TN 37027
ph. 615.953.9474
fax: 615.658.8145

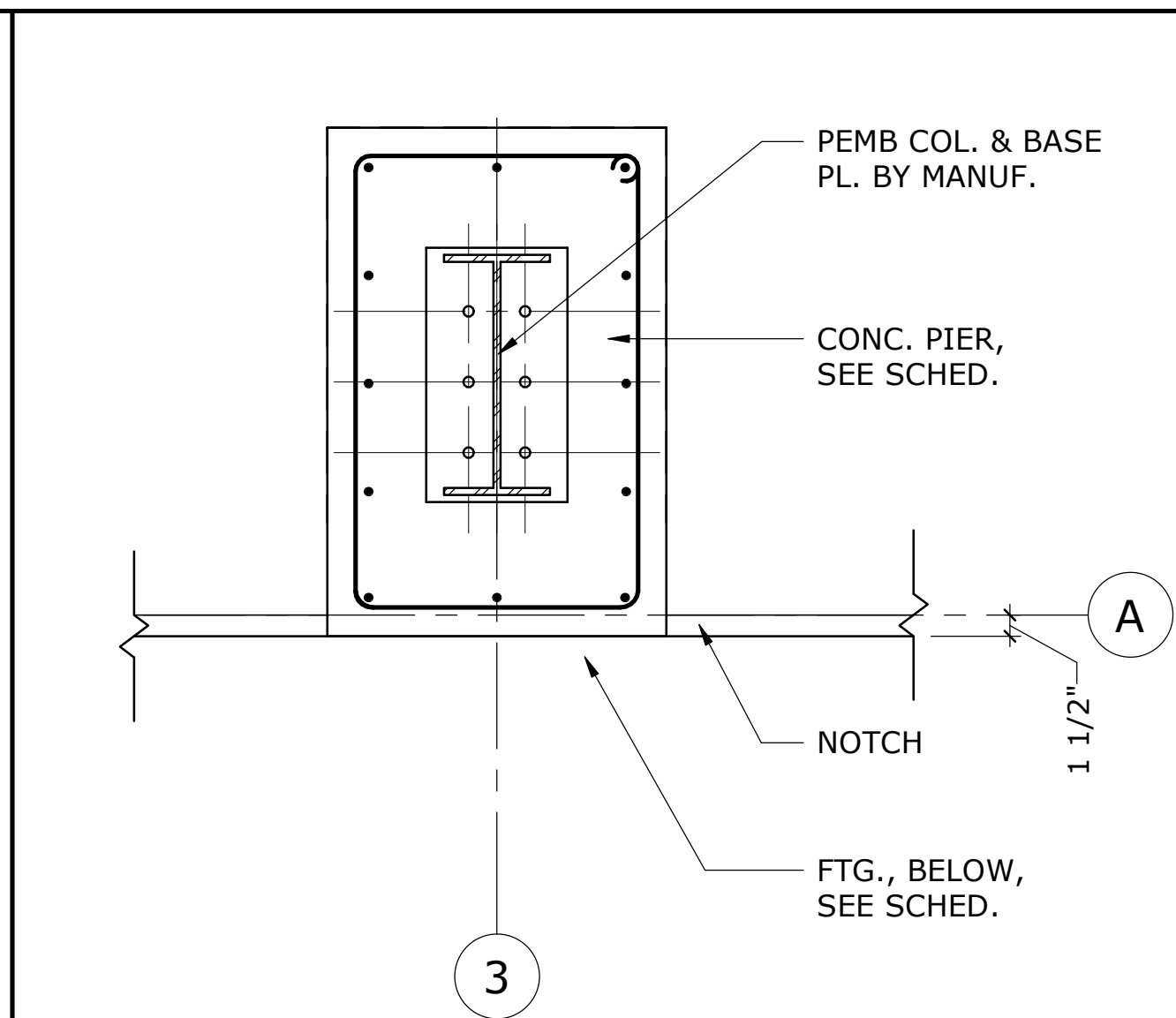
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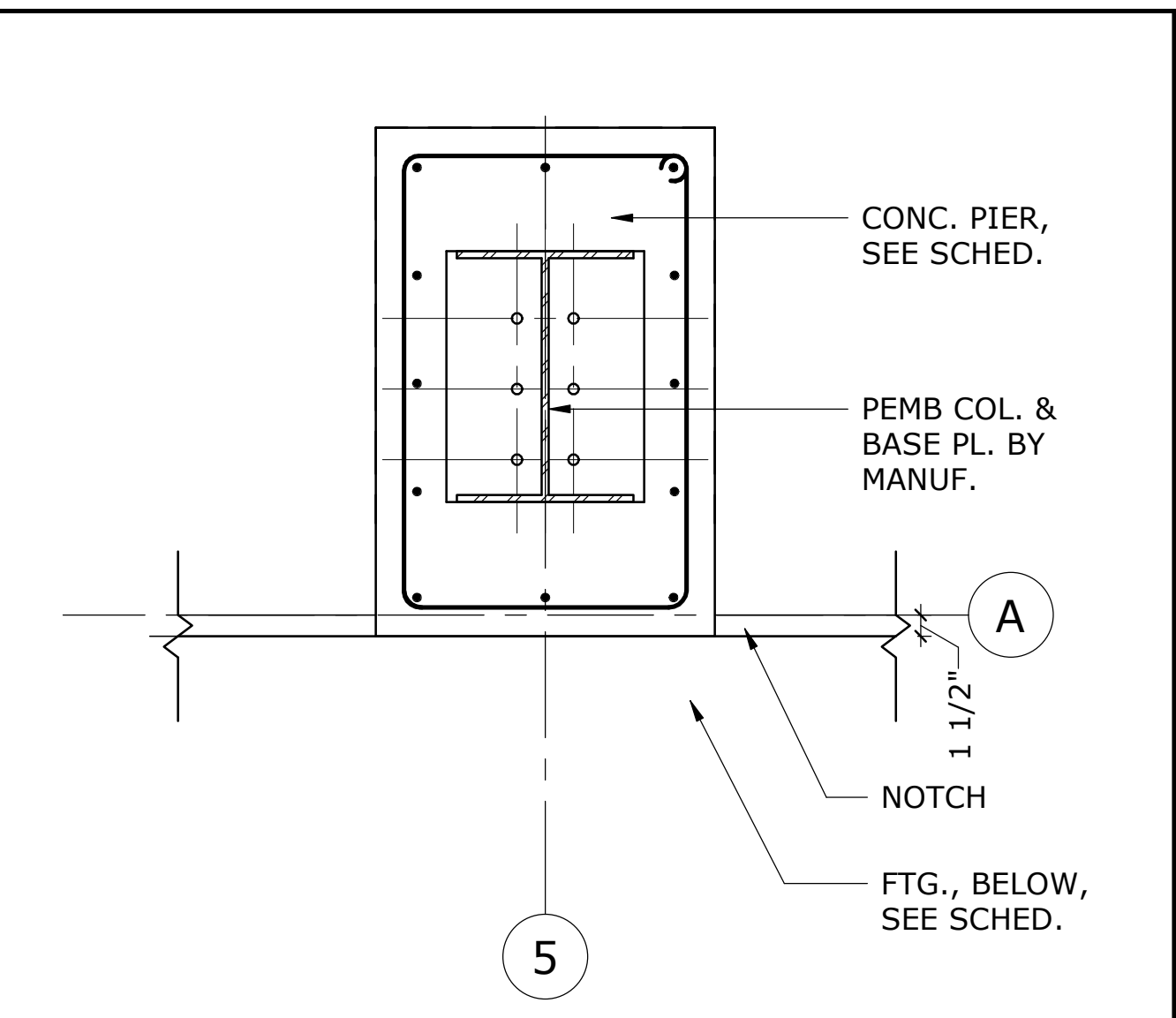
Job Number:	2116
Date:	12.10.2021
Revisions:	01.07.2022
Revisions:	
Revisions:	CONCRETE PIER DETAILS



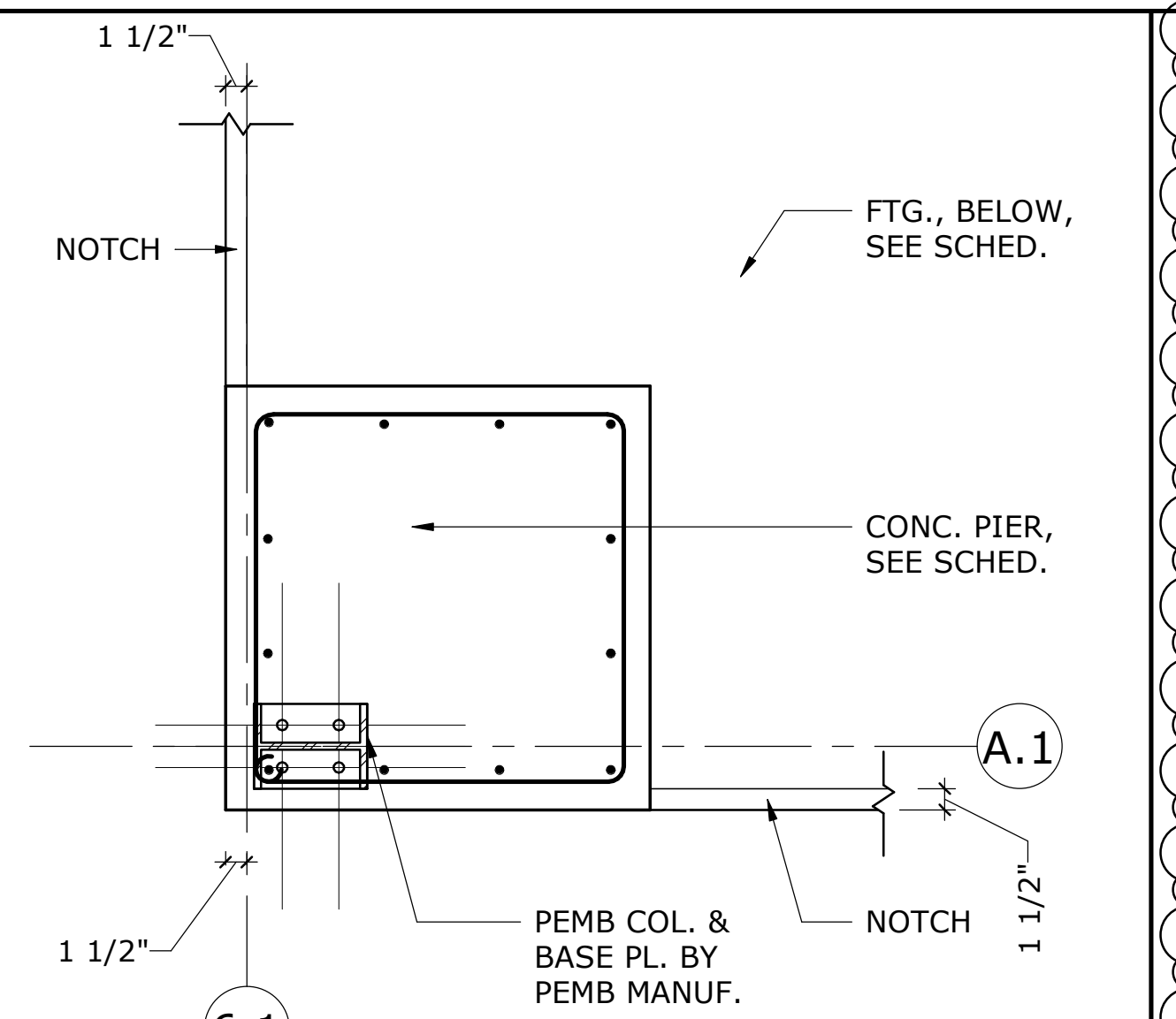
20 PLAN DETAIL @ GRIDS E/1.8
SCALE: 1" = 1'-0"



16 PLAN DETAIL @ GRIDS A/3
SCALE: 1" = 1'-0"



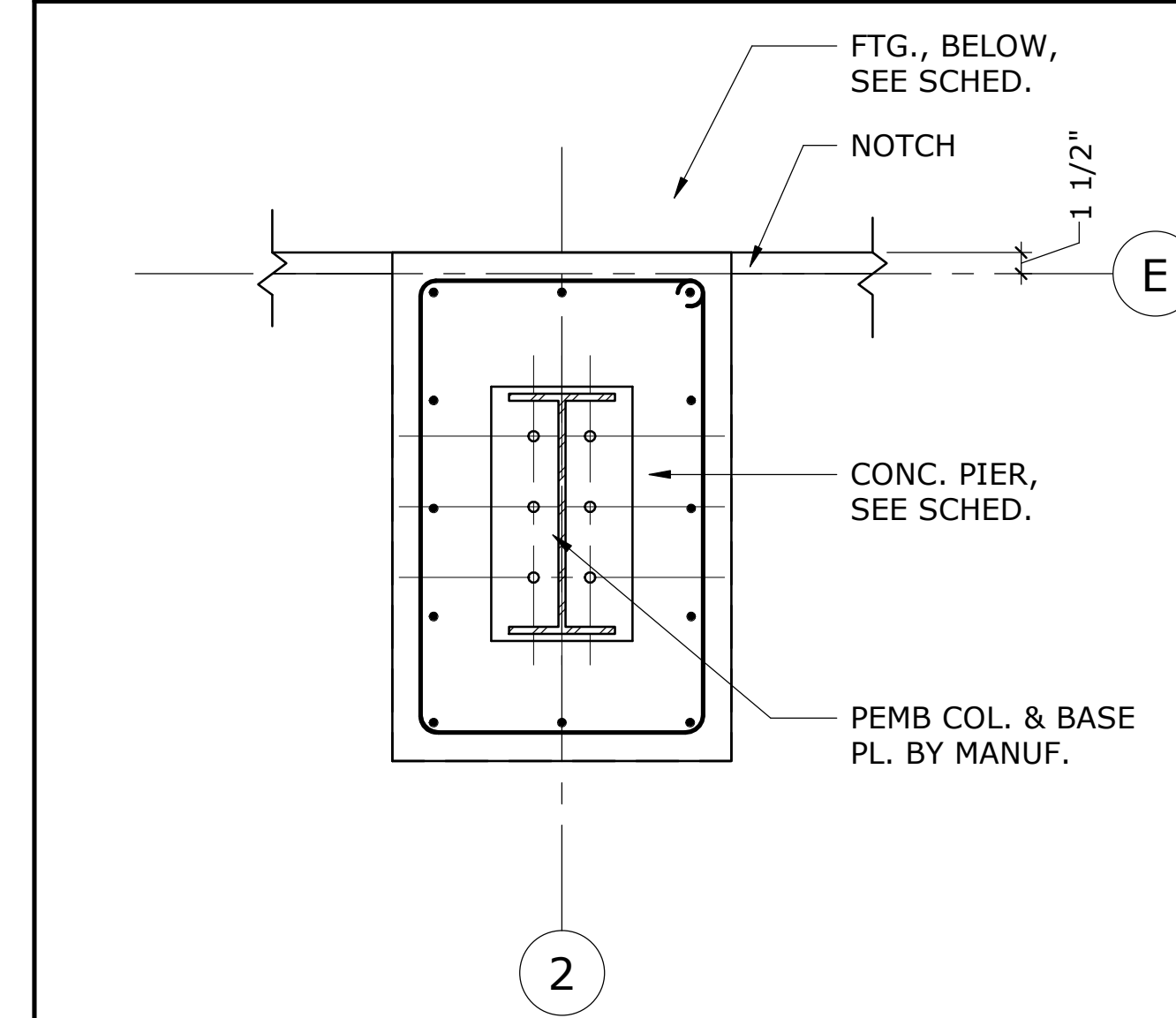
12 PLAN DETAIL @ GRIDS A/5
SCALE: 1" = 1'-0"



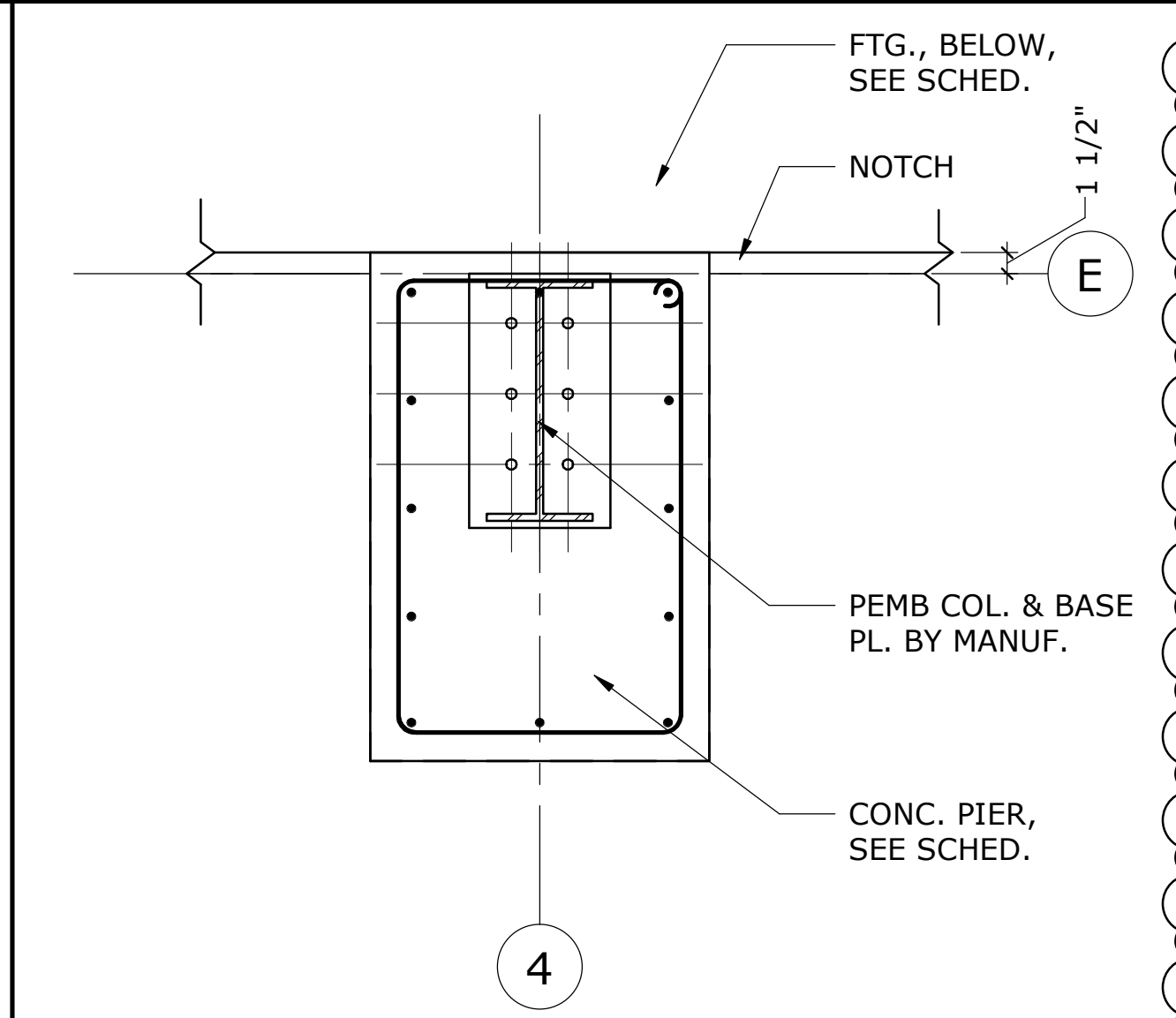
8 PLAN DETAIL @ GRIDS A.1/6.1
SCALE: 1" = 1'-0"

NOTE:
1. CONCRETE BOLT SPACING SHALL MEET ACI 318 SPACING REQUIREMENTS (4 x A.B. DIAMETER)
2. PEMB ANCHORS MUST BE CAST INTO PLACE WITHIN PIER REINFORCING.
3. ANCHOR BOLTS & FOOTINGS SHALL BE VERIFIED w/ PEMB PRIOR TO CONSTRUCTION.
A. DIMENSIONS OF A.B. INDICATED ARE PRELIMINARY AND WILL BE ADJUSTED PER THE PEMB MANUF. REQUIREMENTS.
4. CONCRETE FOOTINGS SHALL BE CENTERED ON THE CONCRETE PIER, U.N.O.

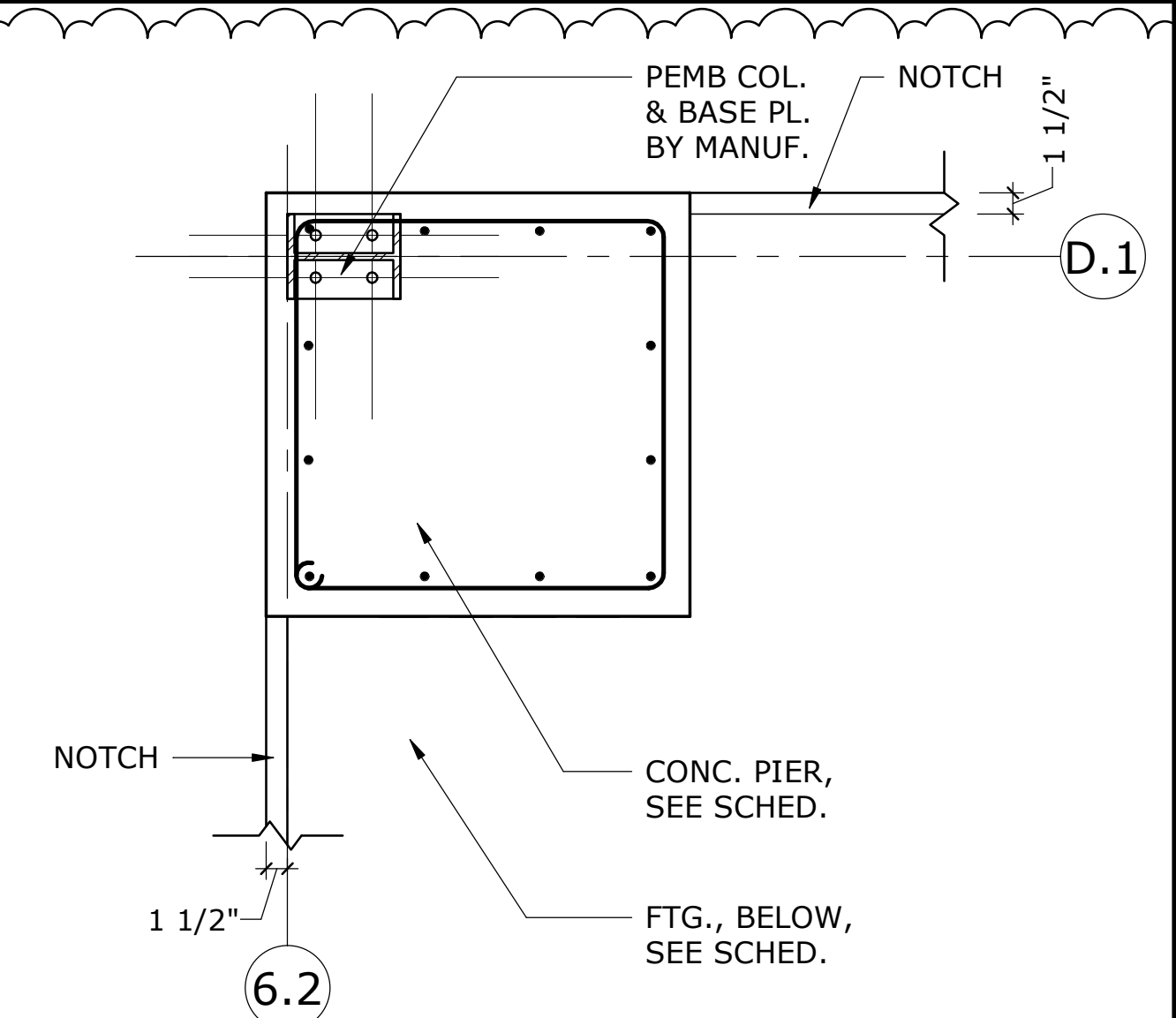
CONCRETE PIER NOTES



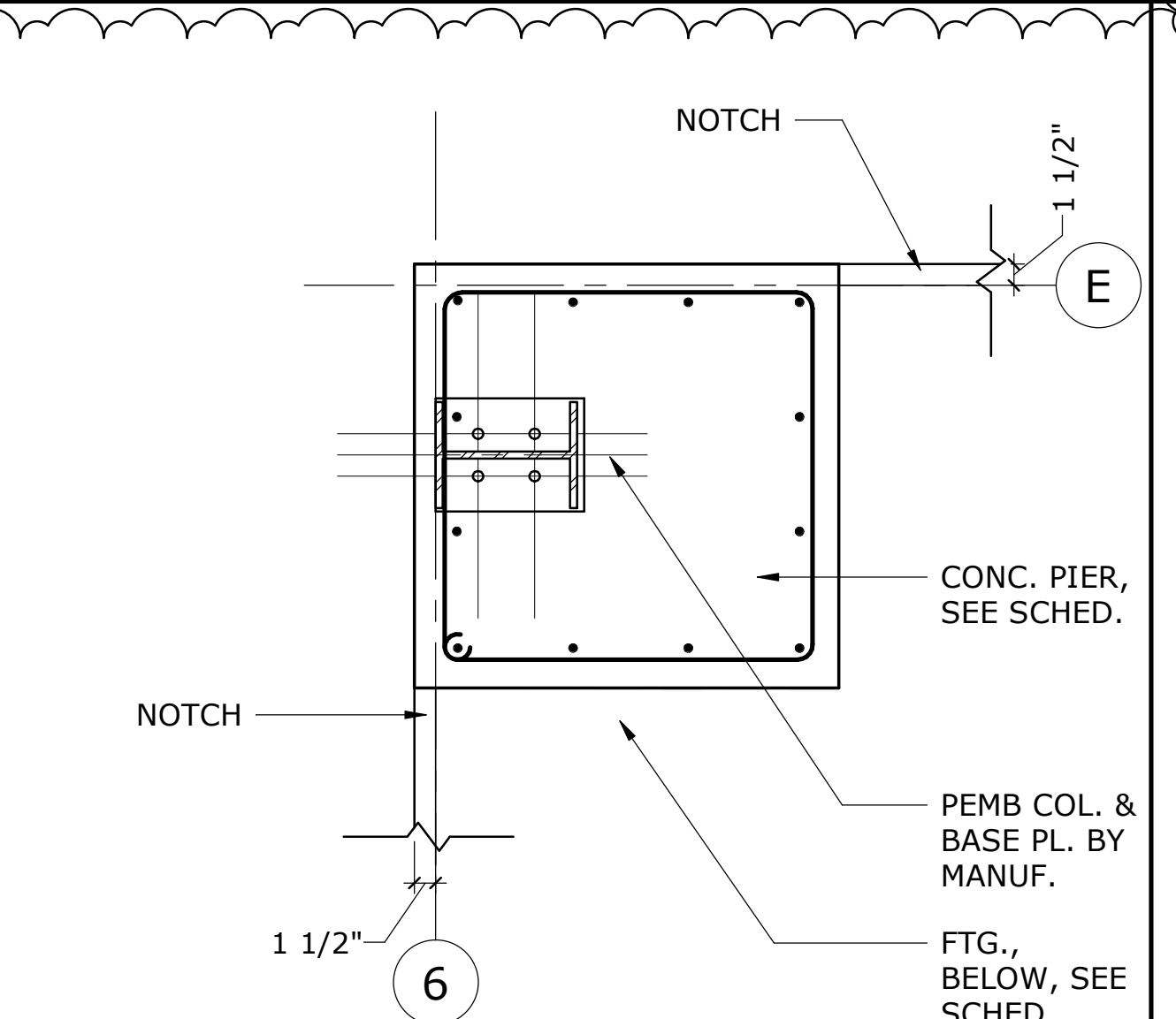
19 PLAN DETAIL @ GRIDS E/2
SCALE: 1" = 1'-0"



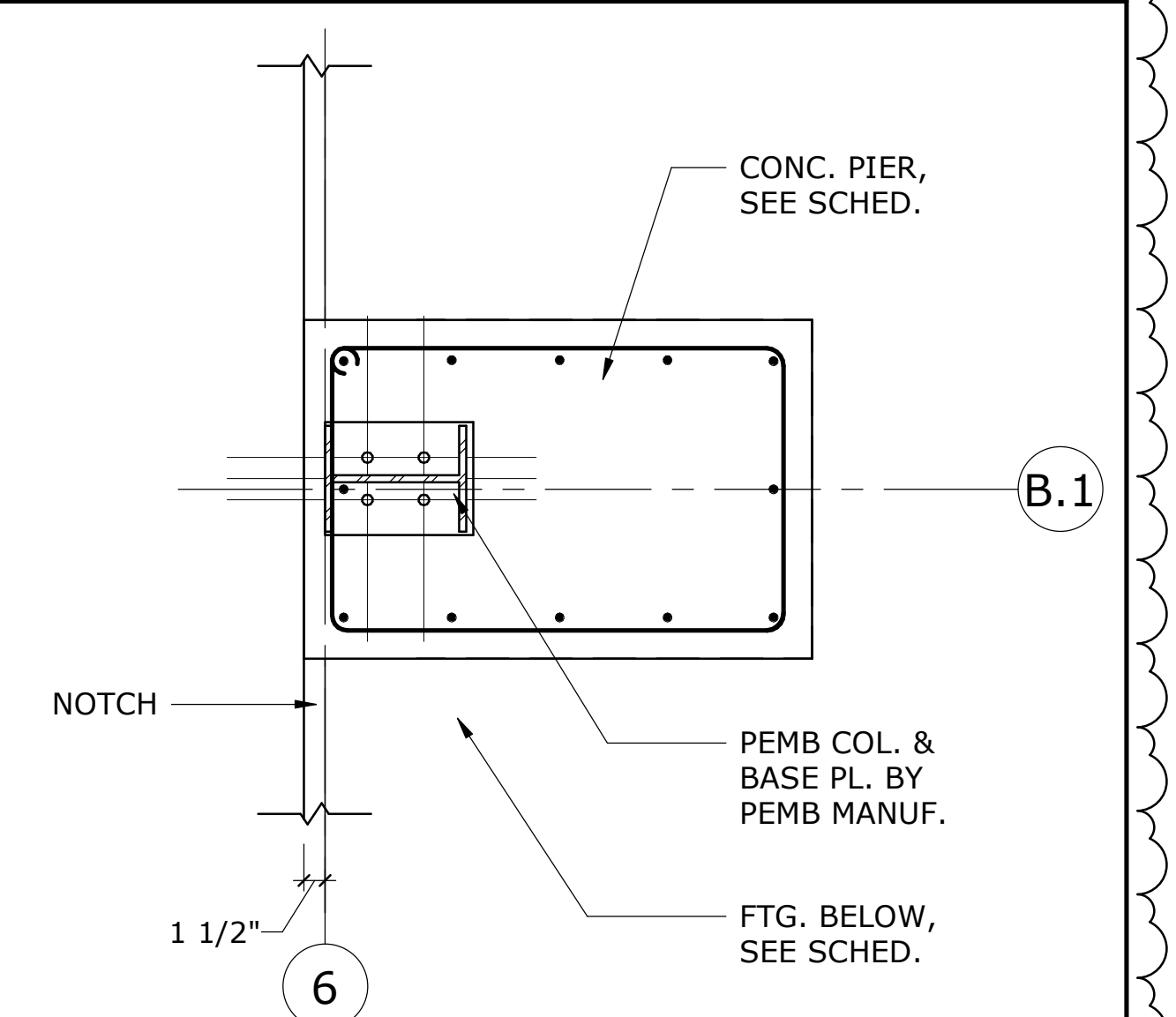
15 PLAN DETAIL @ GRIDS E/4
SCALE: 1" = 1'-0"



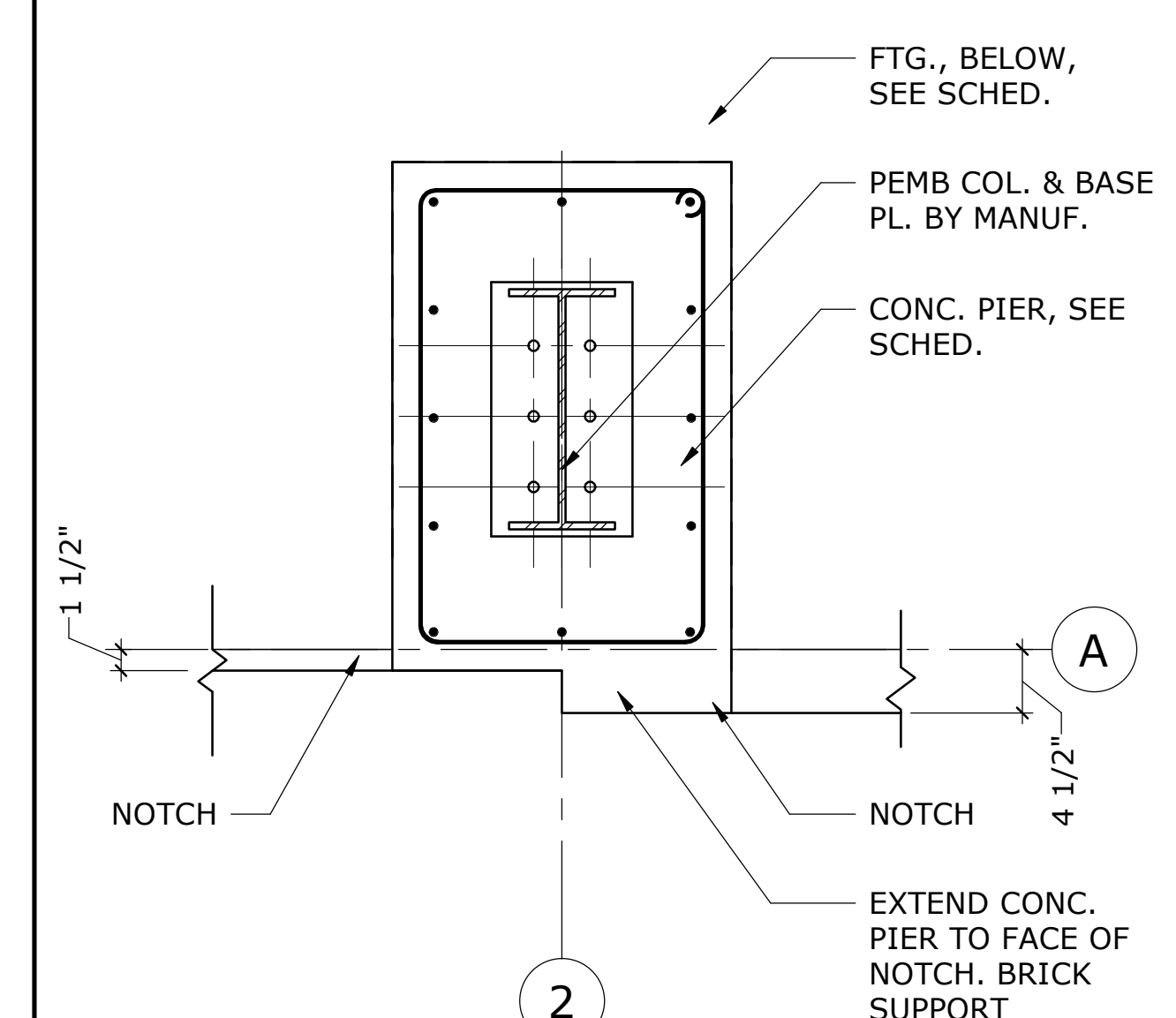
11 PLAN DETAIL @ GRIDS D.1/6.2
SCALE: 1" = 1'-0"



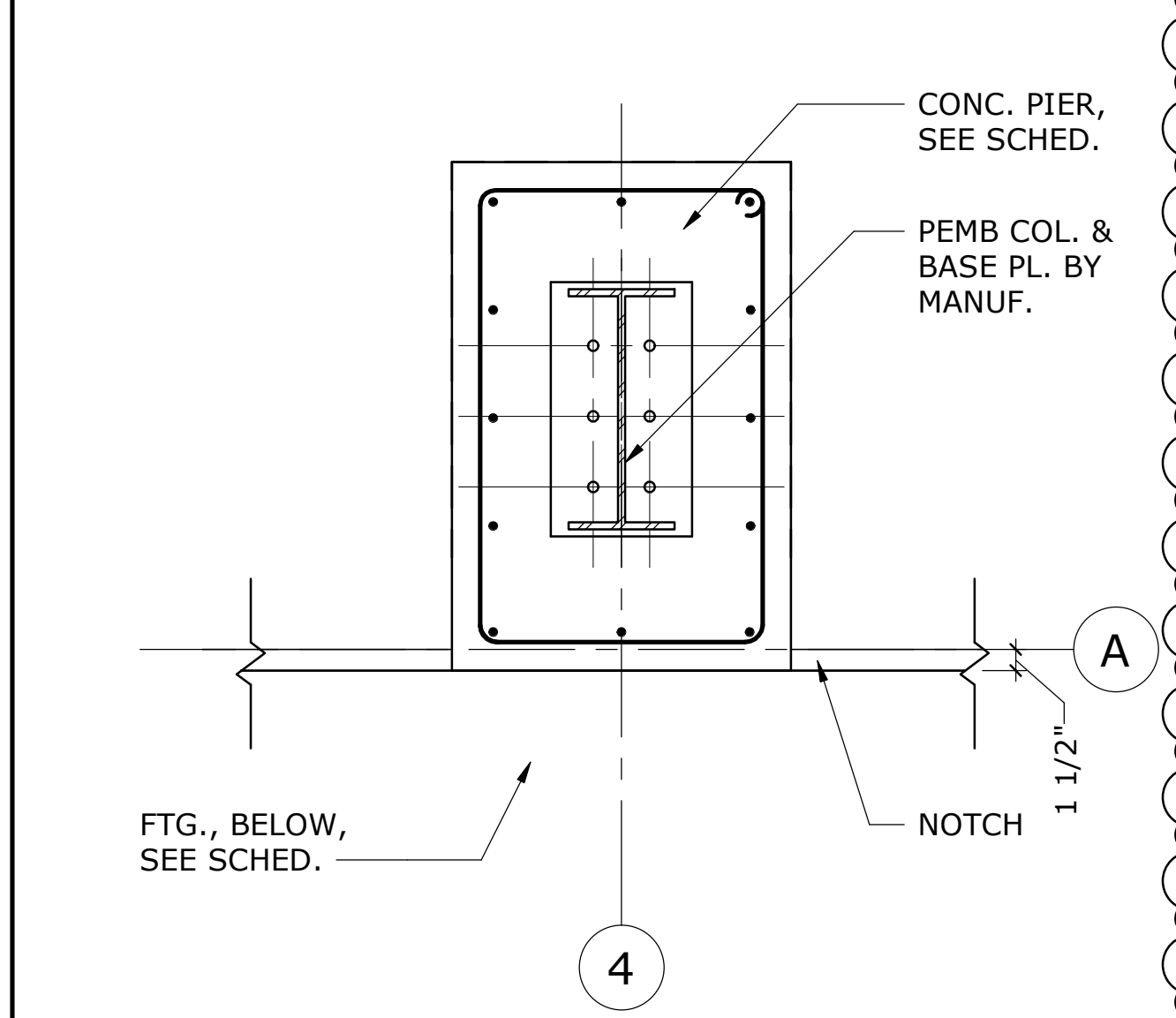
7 PLAN DETAIL @ GRIDS E/6
SCALE: 1" = 1'-0"



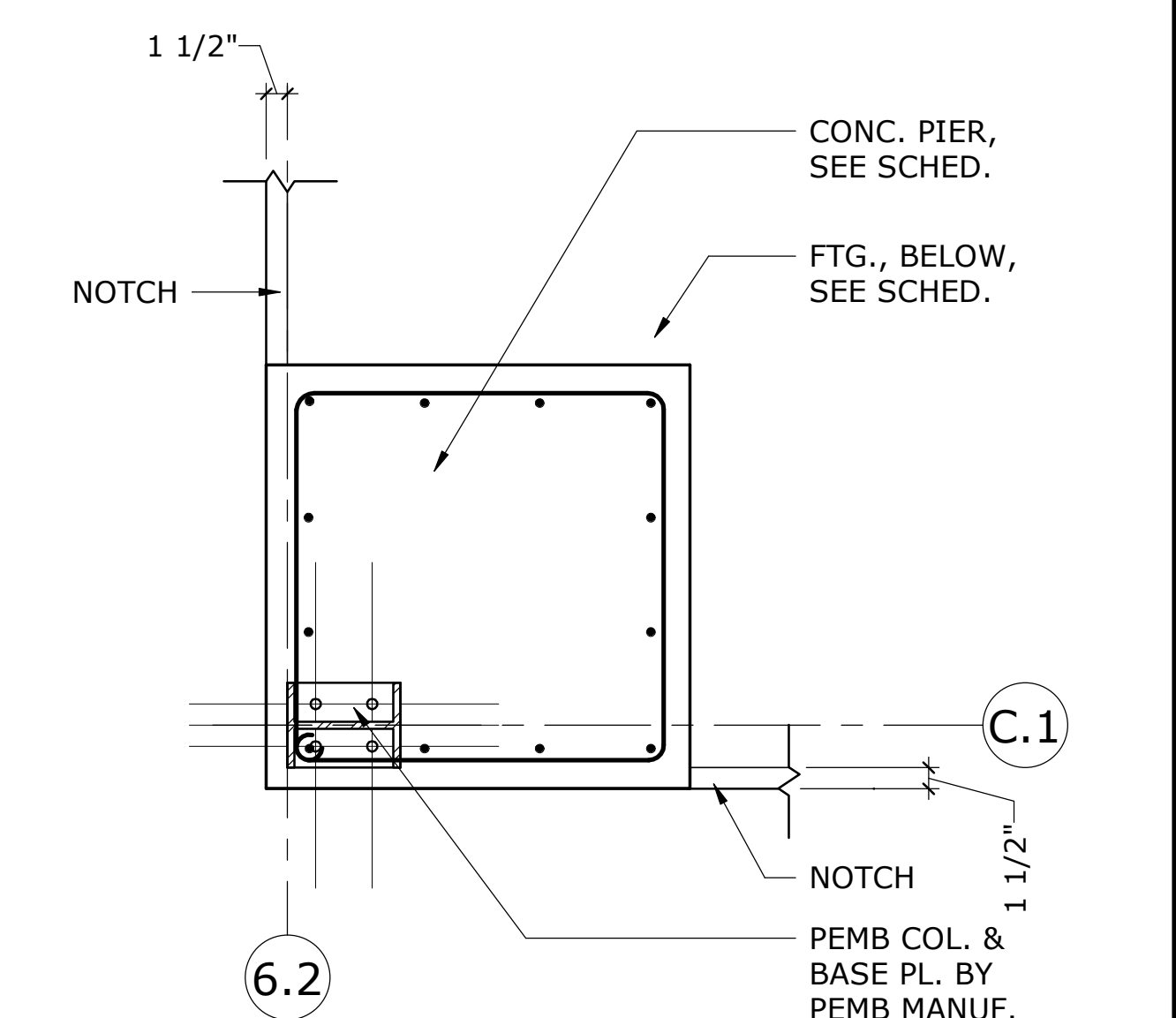
3 PLAN DETAIL @ GRIDS B.1/6
SCALE: 1" = 1'-0"



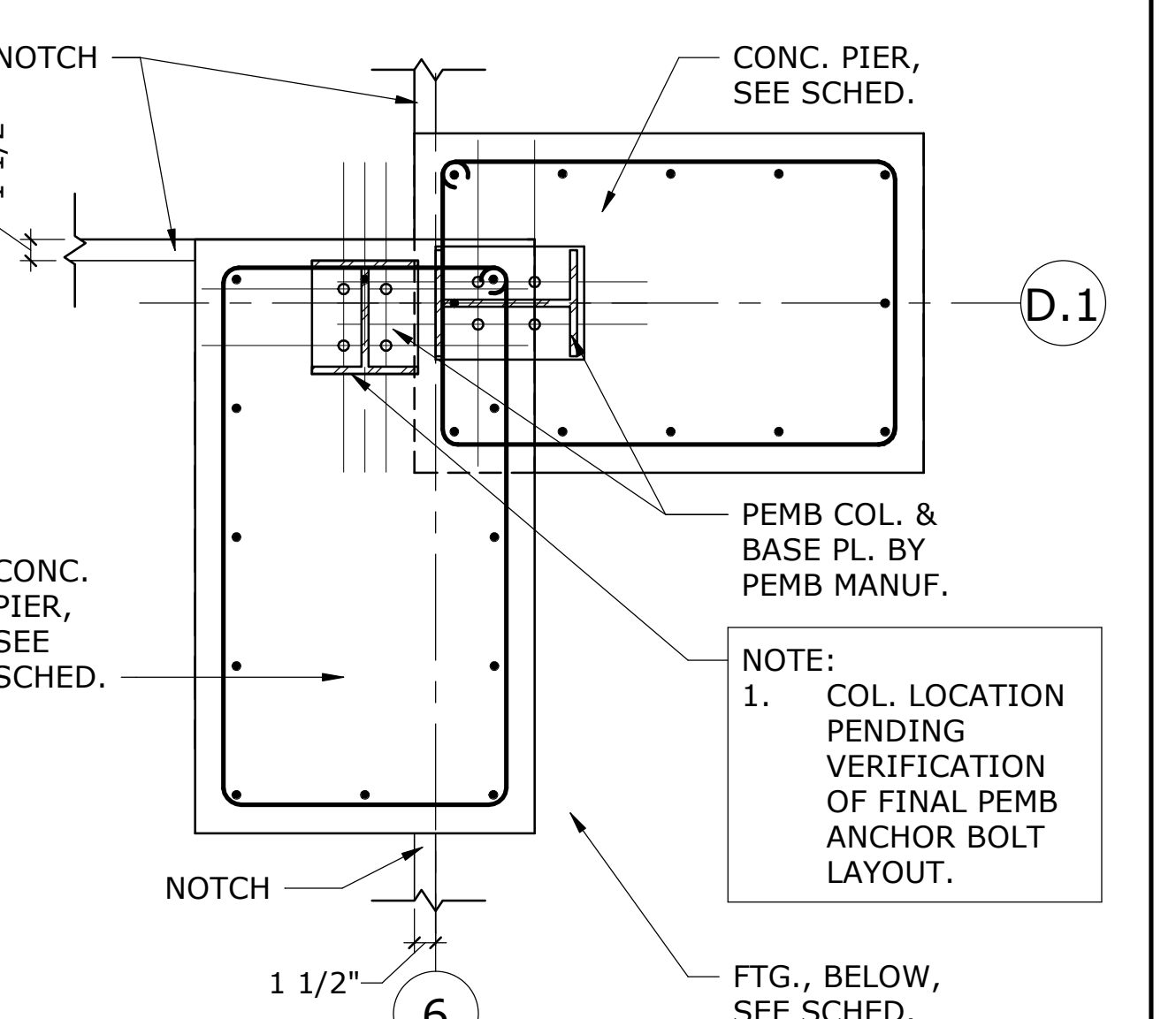
18 PLAN DETAIL @ GRIDS A/2
SCALE: 1" = 1'-0"



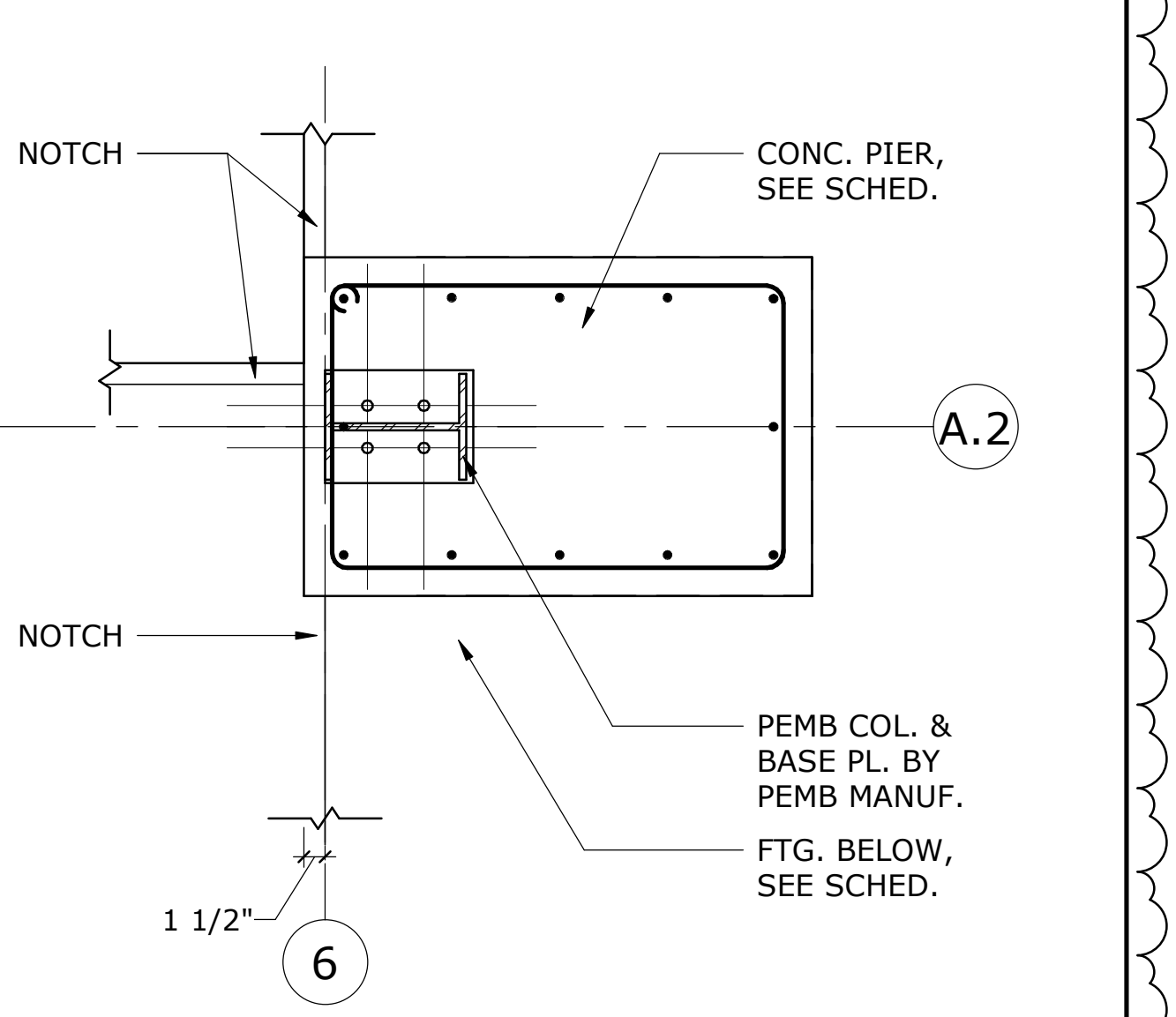
14 PLAN DETAIL @ GRIDS A/4
SCALE: 1" = 1'-0"



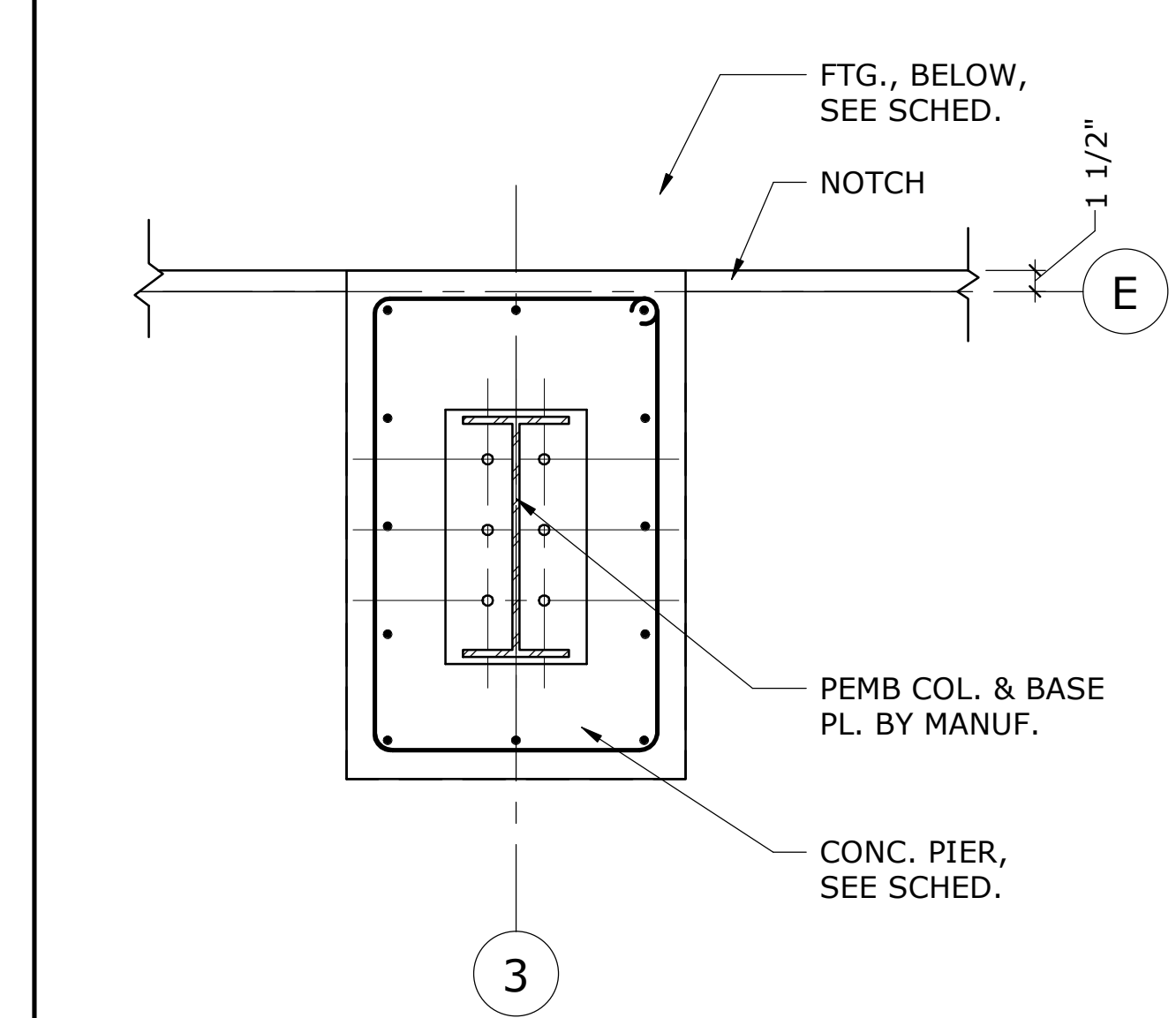
10 PLAN DETAIL @ GRIDS C.1/6.2
SCALE: 1" = 1'-0"



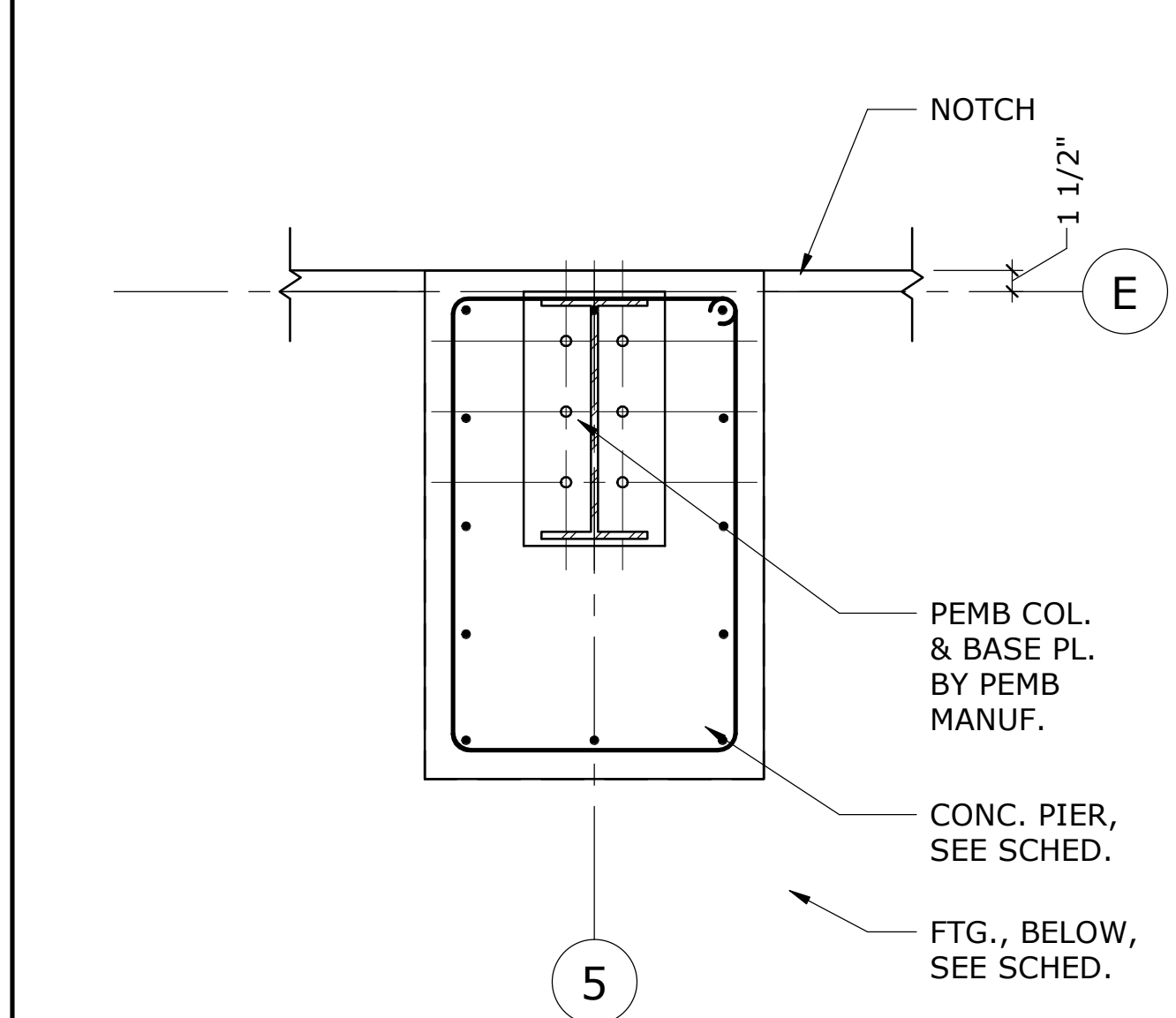
6 PLAN DETAIL @ GRIDS D.1/6
SCALE: 1" = 1'-0"



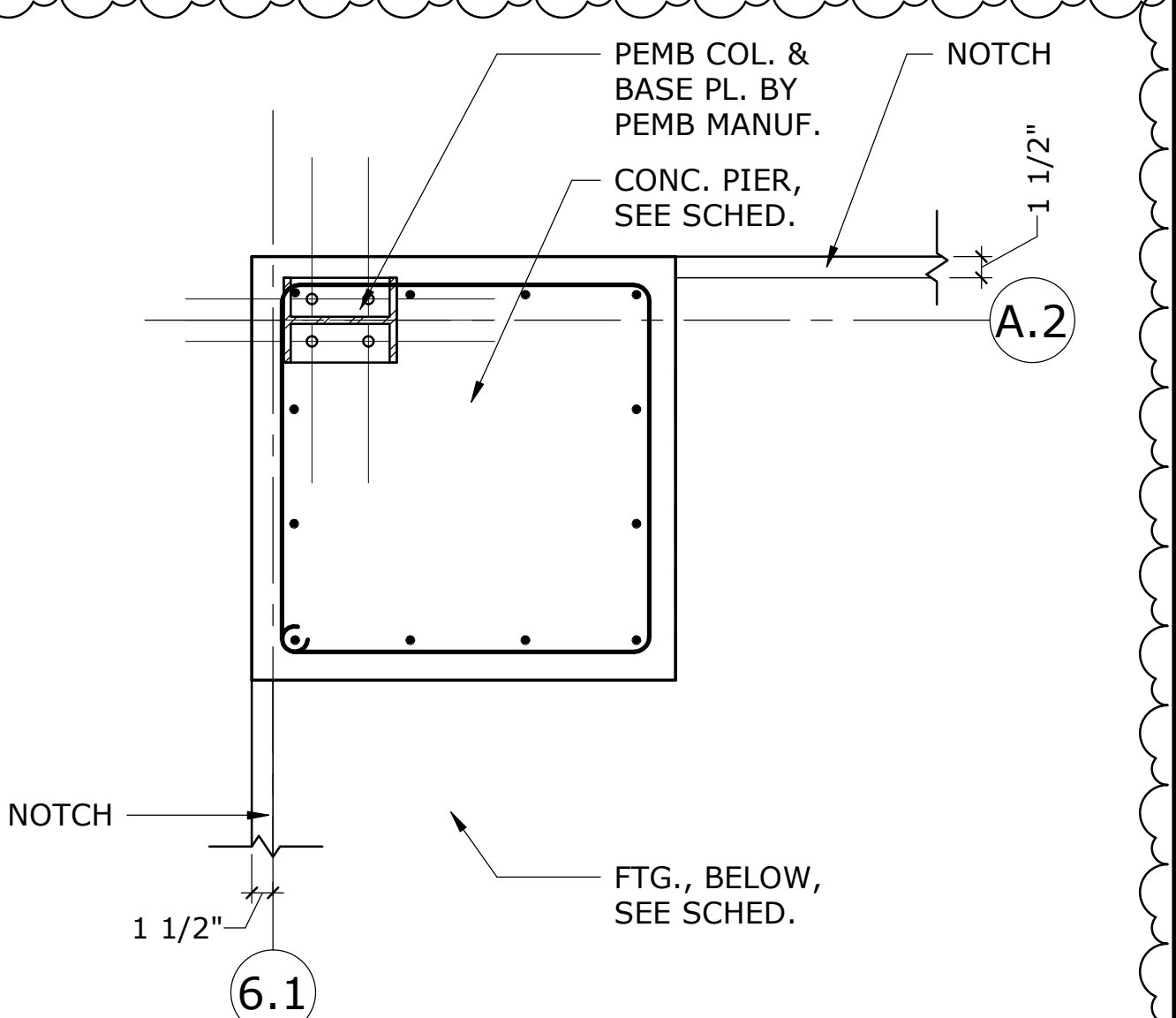
2 PLAN DETAIL @ GRIDS A.2/6
SCALE: 1" = 1'-0"



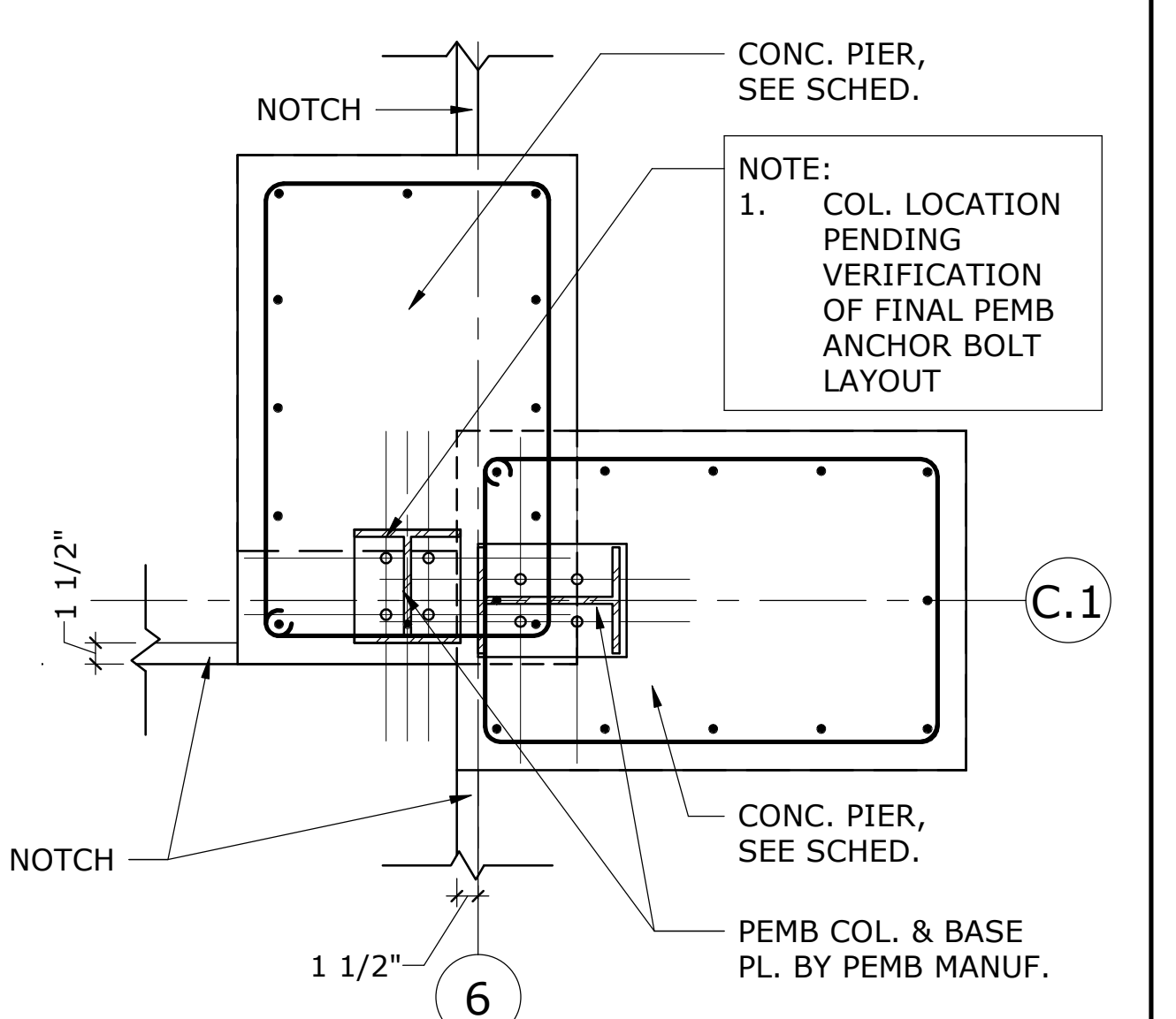
17 PLAN DETAIL @ GRIDS E/3
SCALE: 1" = 1'-0"



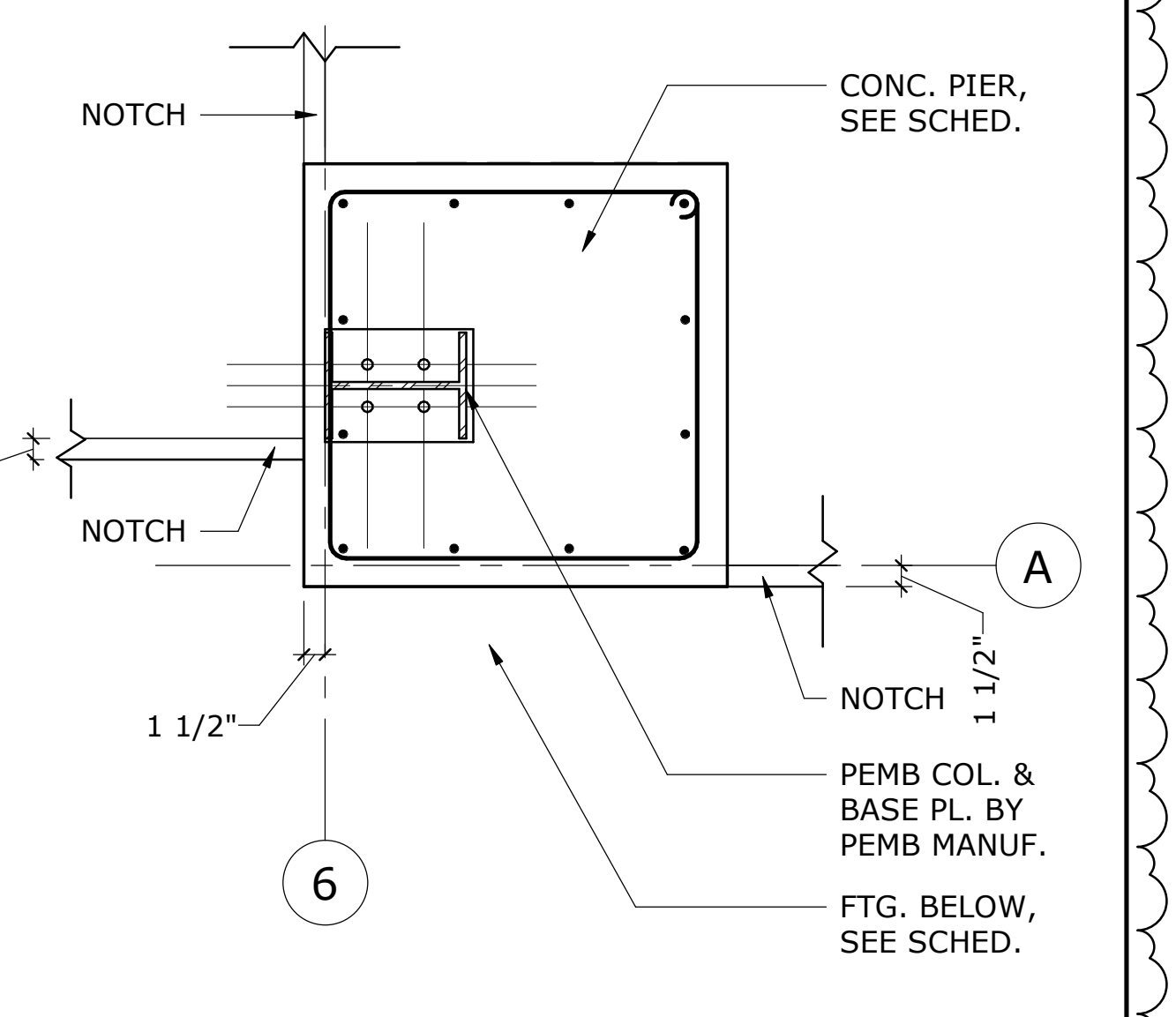
13 PLAN DETAIL @ GRIDS E/5
SCALE: 1" = 1'-0"



9 PLAN DETAIL @ GRIDS A.2/6.1
SCALE: 1" = 1'-0"



5 PLAN DETAIL @ GRIDS C.1/6
SCALE: 1" = 1'-0"



1 PLAN DETAIL @ GRIDS A/6
SCALE: 1" = 1'-0"



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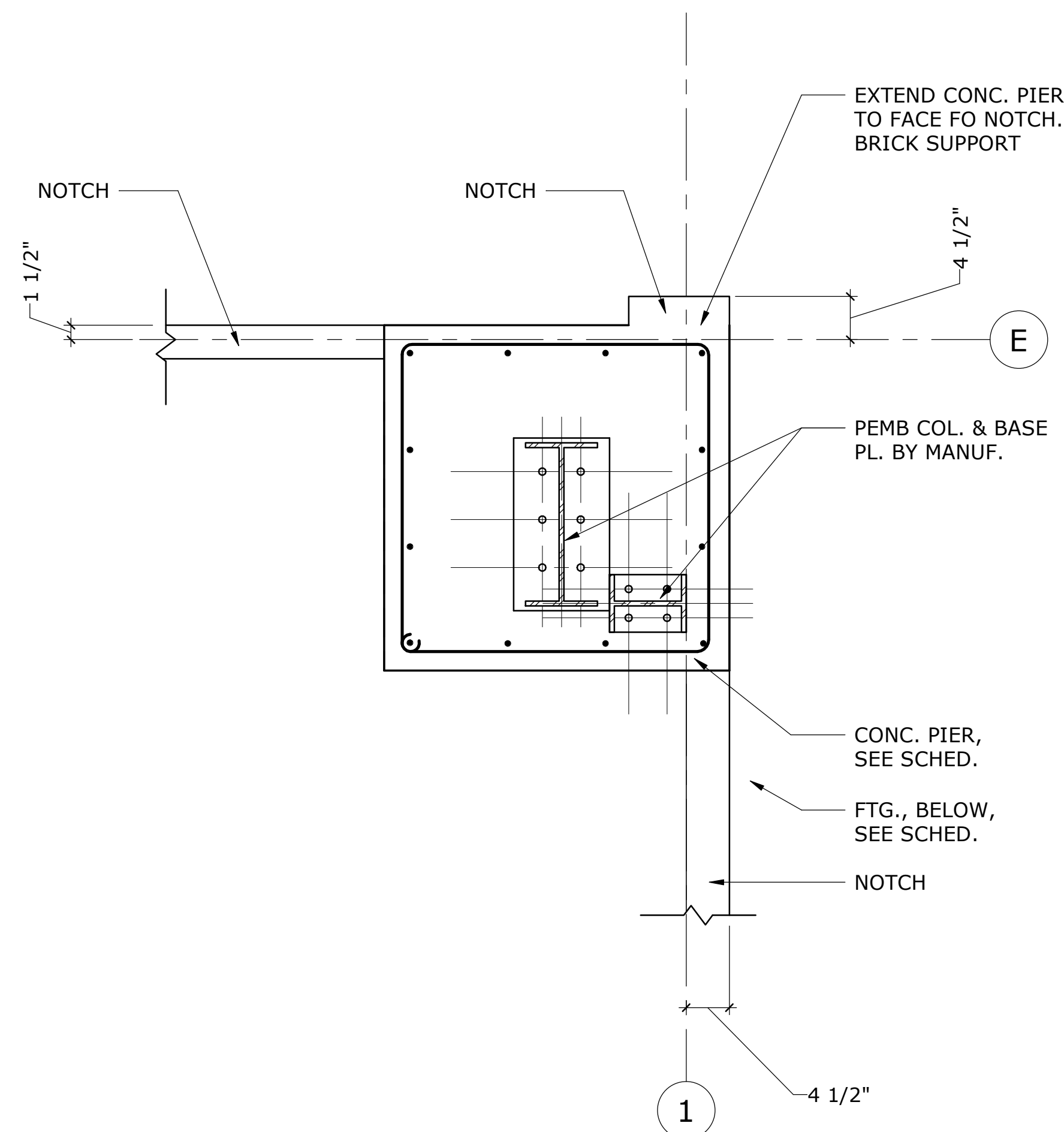
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Frederick A. Weis, Jr., P.E.

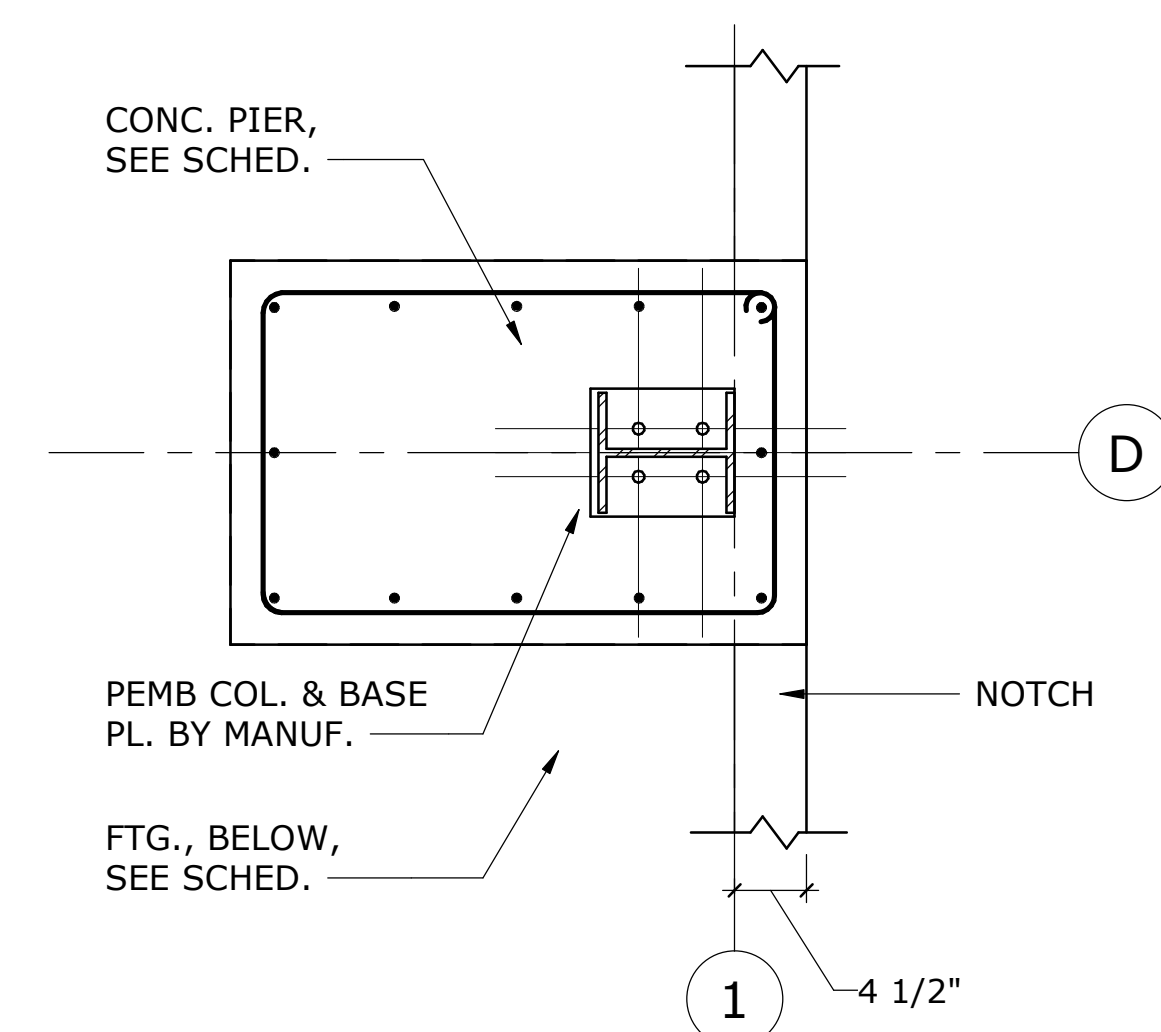
214 Overlook Circle, Suite 201
Brentwood, TN 37027
ph. 615.953.9474
fax: 615.658.8145

- NOTE:
1. CONCRETE BOLT SPACING SHALL MEET ACI 318 SPACING REQUIREMENTS (4 x A.B. DIAMETER)
 2. PEMB ANCHORS MUST BE CAST INTO PLACE WITHIN PIER REINFORCING.
 3. ANCHOR BOLTS & FOOTINGS SHALL BE VERIFIED w/ PEMB PRIOR TO CONSTRUCTION.
A. DIMENSIONS OF A.B. INDICATED ARE PRELIMINARY AND WILL BE ADJUSTED PER THE PEMB MANUF. REQUIREMENTS.
 4. CONCRETE FOOTINGS SHALL BE CENTERED ON THE CONCRETE PIER, U.N.O.

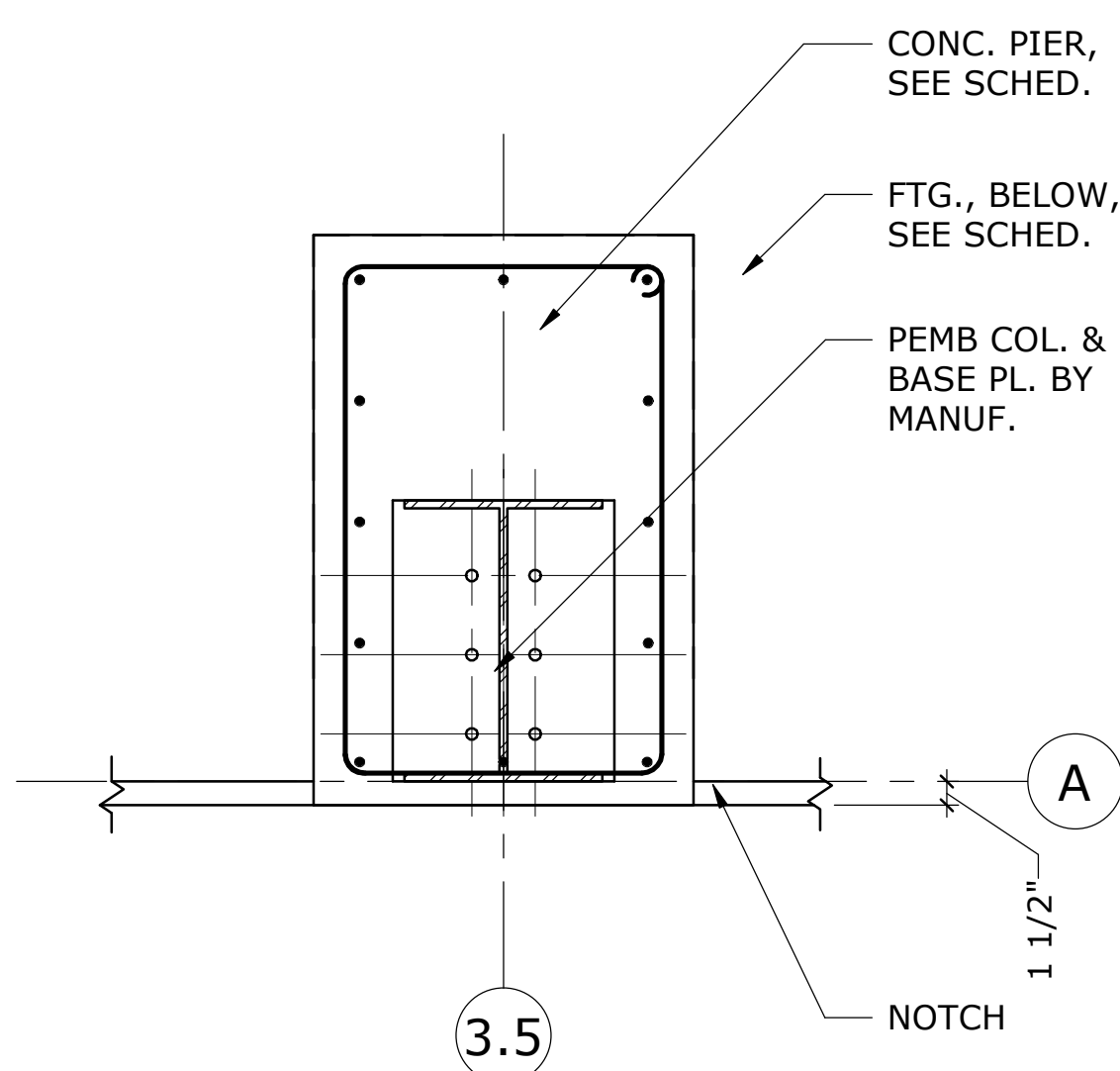
CONCRETE PIER NOTES



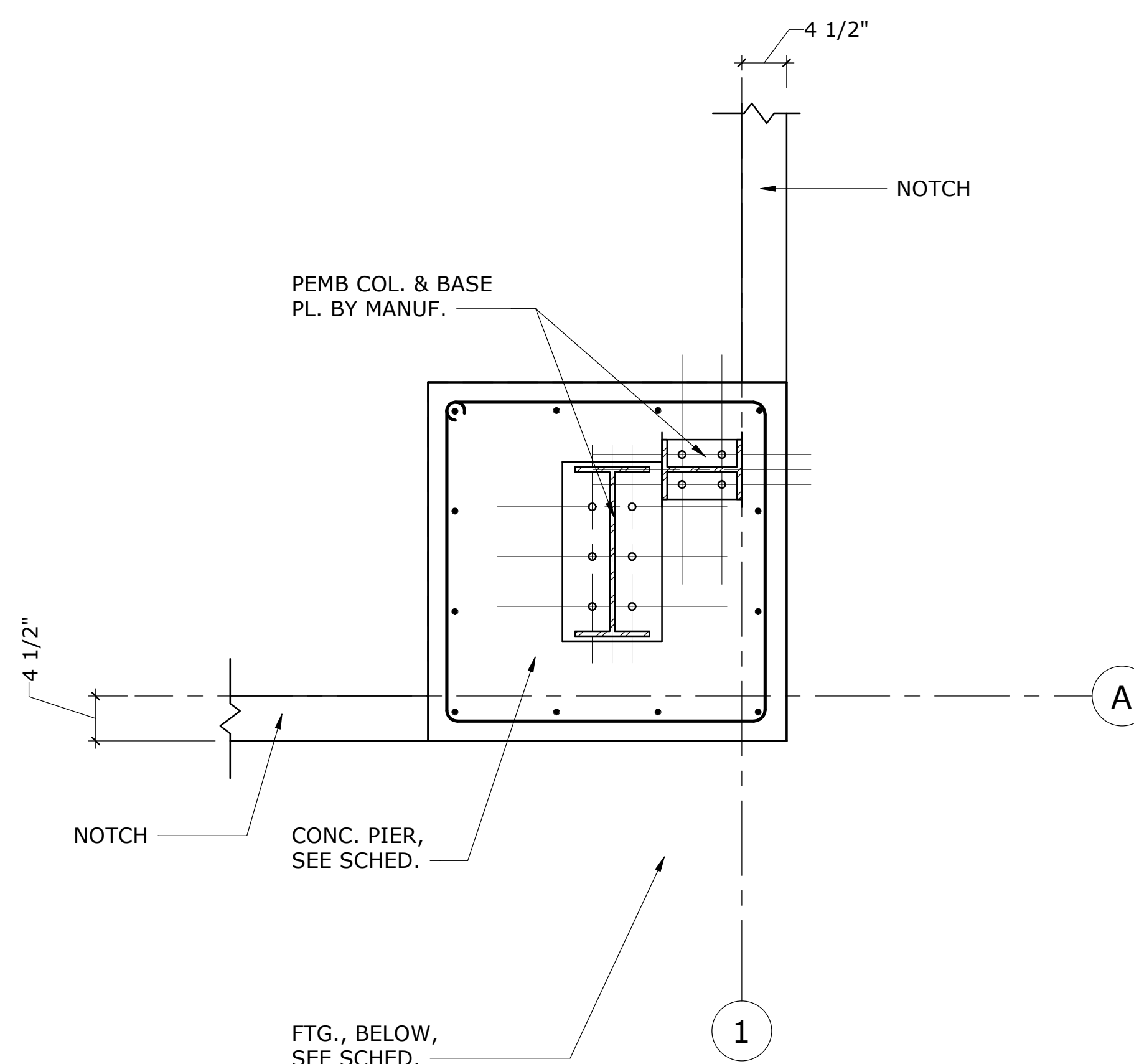
11 PLAN DETAIL @ GRIDS E/1
SCALE: 1" = 1'-0"



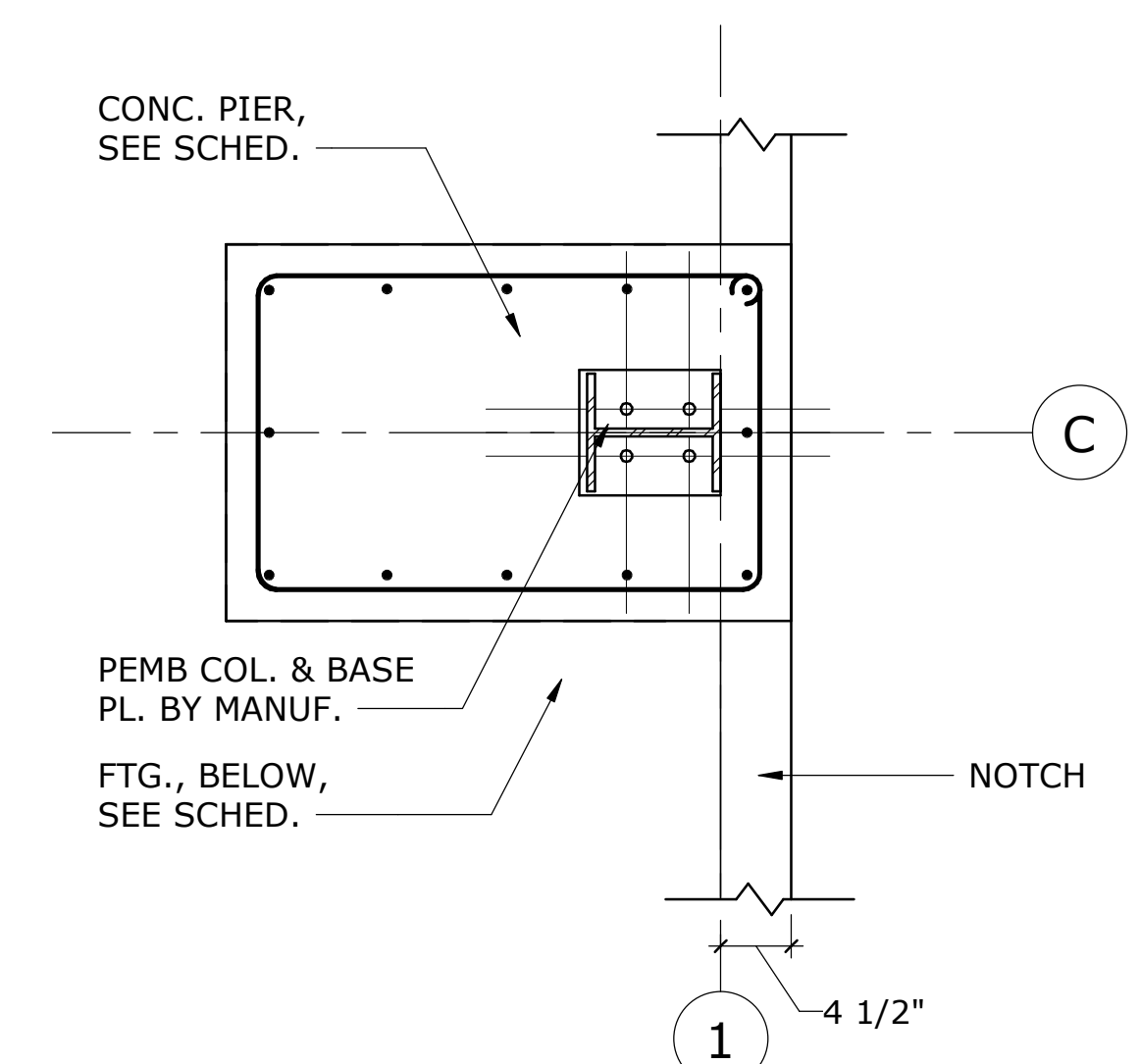
3 PLAN DETAIL @ GRIDS D/1
SCALE: 1" = 1'-0"



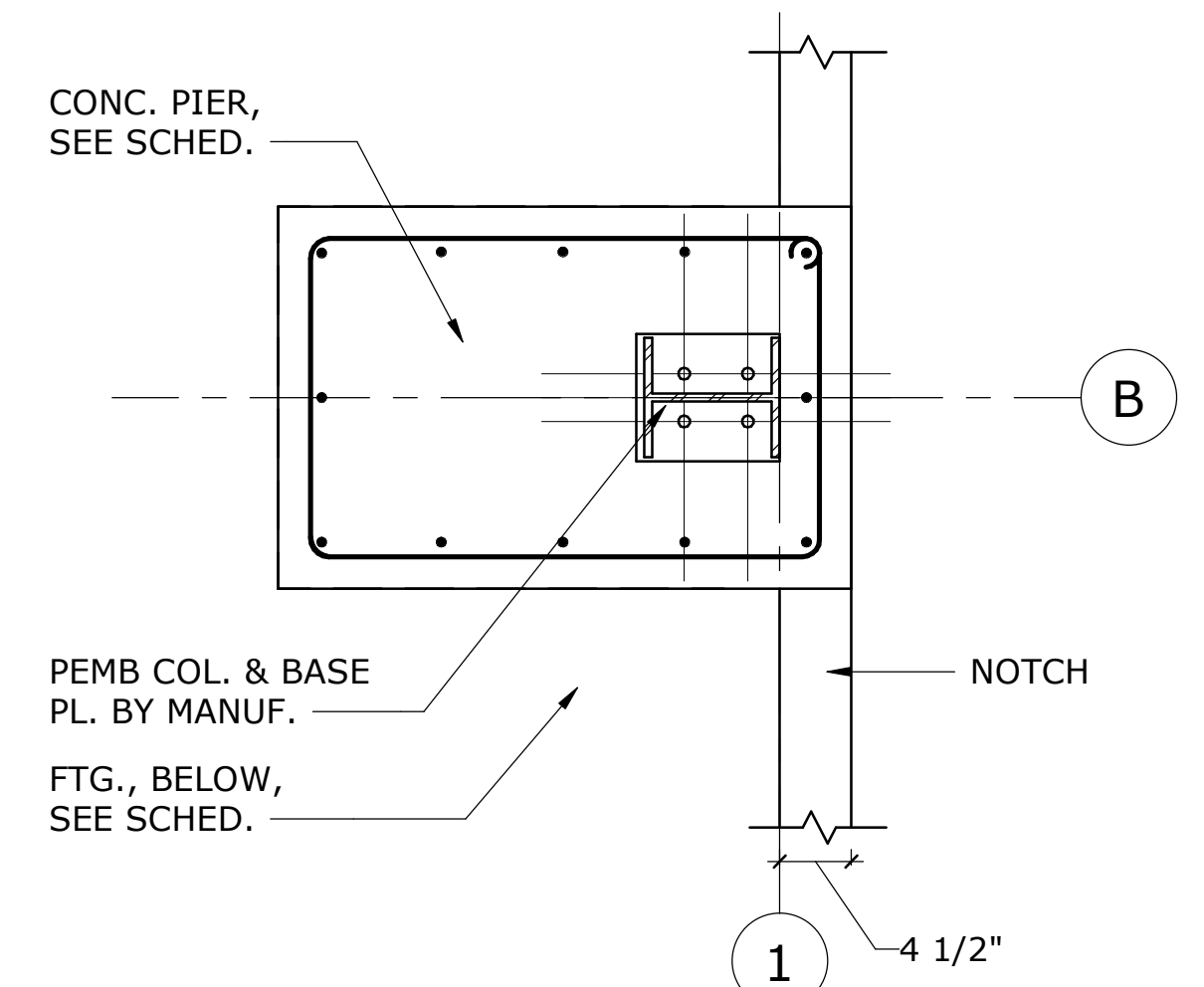
14 PLAN DETAIL @ GRIDS A/3.5
SCALE: 1" = 1'-0"



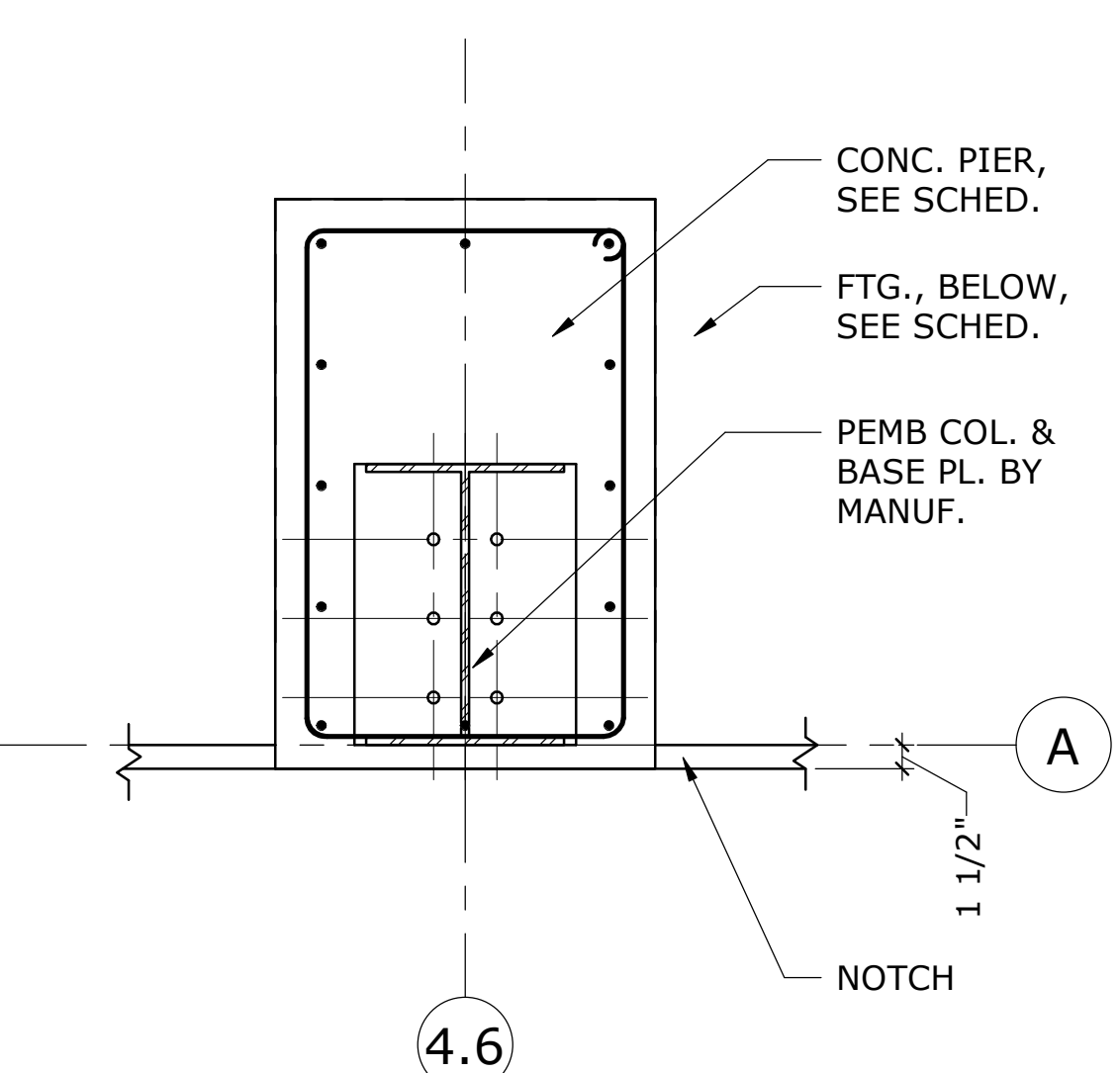
9 PLAN DETAIL @ GRIDS A/1
SCALE: 1" = 1'-0"



2 PLAN DETAIL @ GRIDS C/1
SCALE: 1" = 1'-0"



1 PLAN DETAIL @ GRIDS B/1
SCALE: 1" = 1'-0"



13 PLAN DETAIL @ GRIDS A/4.6
SCALE: 1" = 1'-0"

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Date: 12.10.2021

Revisions: 01.07.2022

Revisions:

Revisions:

Revisions: CONCRETE PIER DETAILS

Sheet Number: S3.2

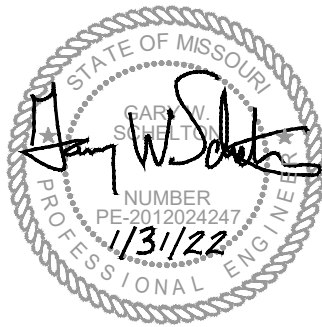
WE-21129



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Suite 120
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FIRE PROTECTION SPECIFICATIONS

- THE SPRINKLER SYSTEM SHALL CONFORM TO NATIONAL FIRE PROTECTION ASSOCIATION 13 AND ALL APPLICABLE REGULATORY REQUIREMENTS AND BUILDING CODES AS INTERPRETED BY THE AUTHORITY HAVING JURISDICTION IN THE LOCALE OF THE PROJECT. WHERE CONFLICTS EXIST BETWEEN SUCH REGULATORY OR CODE REQUIREMENTS, SUCH CONFLICT SHALL BE IDENTIFIED FOR THE REVIEW OF THE ARCHITECT AND ENGINEER.
- CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND HYDRAULICALLY CALCULATED SPRINKLER SYSTEM AS INDICATED ON FLOOR PLANS. MINIMUM SCOPE OF WORK SHALL INCLUDE PROVIDING NEW PENDANT SPRINKLER HEADS AS REQUIRED IN THE LOBBY, TOILETS, OFFICES, AND BREAKROOM. PROVIDE NEW UPRIGHT SPRINKLER HEADS AS REQUIRED IN THE WORKSHOP, PARTS STAGING, AND DETAILS AREAS. PROVIDE BRANCH PIPING FOR ALL NEW SPRINKLER HEADS AND ROUTE PIPING TO NEAREST BRANCH MAIN OR CROSS MAIN. PROVIDE SUPPORTS AS REQUIRED BY NFPA 13.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED.
- SUBMIT FOR APPROVAL THE NUMBER OF SHOP DRAWINGS AND MANUFACTURERS LITERATURE ON ALL MATERIALS AS REQUIRED TO THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- SUBMIT DRAWINGS AND CALCULATIONS TO THE DEPARTMENT OF FIRE PREVENTION OF THE STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS AND COORDINATE WITH OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. INSTALL ALL WORK WITHOUT CONFLICT WITH OTHER TRADES AND MAKE MINOR ALTERATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.
- THE SPRINKLER SYSTEM SHALL BE INSTALLED BY A FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR WITH A VALID CERTIFICATE OF REGISTRATION ISSUED BY THE AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC. OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO PURCHASING EQUIPMENT. ALL EQUIPMENT SHALL BE U.L. AND NEMA APPROVED.
- MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL PANELS AND 1'-0" ON EITHER SIDE OF ELECTRICAL PANEL TO STRUCTURE.
- ALL HORIZONTAL AND VERTICAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH NFPA 13 AND STATE AND LOCAL REQUIREMENTS. SUPPORTS SHALL SECURELY HOLD PIPING, PREVENT VIBRATION, COMPENSATE FOR STATIC AND OPERATIONAL CONDITIONS OF THE VARIOUS SYSTEMS, AND SHALL NOT BE SUBJECT TO ELECTROLYTIC ACTION.
- ALL SPRINKLER SYSTEM MATERIALS INSTALLED SHALL BE U.L. LISTED AND FACTORY MUTUAL APPROVED FOR FIRE PROTECTION USE.
- CONTROL VALVES SHALL BE SLOW CLOSING INDICATING VALVES LISTED FOR FIRE PROTECTION USE. EACH CONTROL SHALL HAVE A SUPERVISORY SWITCH.
- SPRINKLER PIPING PENETRATING ONE-HOUR OR GREATER RATED FIRE WALLS SHALL BE SLEEVED AND CAULKED TO MEET U.L. LISTED ASSEMBLY FOR RATING OF WALL.
- CONTRACTOR SHALL FLUSH WATER SYSTEM AFTER INSTALLATION PER REQUIREMENTS OF NFPA 24.
- SPRINKLER HEADS SHALL BE TYCO, RELIABLE, CENTRAL, VIKING OR EQUAL.
- OFFICE AREA AND SIMILAR OCCUPANCIES SHALL HAVE DENSITY OF ADJACENT AREAS IF NOT SEPARATED BY WALLS. IF SEPARATED BY WALLS, THE AREA SHALL BE HYDRAULICALLY BALANCED TO PRODUCE 0.1 G.P.M. PER SQUARE FOOT DENSITY OVER THE MOST REMOTE 1,500 SQ. FT., HEAD COVERAGE 225 SQ. FT./HEAD MAXIMUM, USING 155°F HEADS.
- SHOP AREA, REPAIR AREA, DETAILS AREA AND SIMILAR OCCUPANCIES SHALL BE HYDRAULICALLY BALANCED TO PRODUCE 0.2 GPM PER SQUARE FOOT DENSITY OVER THE MOST REMOTE 1,500 SQ. FT., HEAD COVERAGE 130 SQ. FT./HEAD MAXIMUM, USING 200°F HEADS.
- ALL SPRINKLER HEADS IN AREAS WITH FINISHED CEILING SHALL BE WHITE FINISH RECESSED PENDANT TYPE WITH TEMPERATURE RATING AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE ENTIRELY CONCEALED.
- ALL SPRINKLER HEADS IN AREAS WITHOUT FINISHED CEILINGS SHALL BE BRASS UPRIGHT HEADS WITH TEMPERATURE RATING AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN EXPOSED. DO NOT PAINT HEADS.
- THE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF PIPING AND HEADS WITH LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PLUMBING LINES, ETC. AND MAKE MINOR ADJUSTMENTS IN THE SPRINKLER LAYOUT WHERE REQUIRED OR DEEMED NECESSARY BY THE ARCHITECT.

GENERAL NOTES

- CONTRACTOR TO FURNISH AND INSTALL MINIMUM OF 3 PORTABLE 5 LB FIRE EXTINGUISHERS TO SERVE OFFICE AREAS. FIRE EXTINGUISHERS SHALL BE UL & ULC RATED AT 2A:10-B:C OR BETTER. LOCATIONS SHALL BE DETERMINED TO MAINTAIN A MAXIMUM TRAVEL DISTANCE OF 75'-0".
- CONTRACTOR TO FURNISH AND INSTALL MINIMUM OF 9 PORTABLE 20 LB FIRE EXTINGUISHERS TO SERVE SHOP AREAS. EXTINGUISHERS SHALL BE UL & ULC RATED AT 4A:80-B:C OR BETTER. LOCATIONS SHALL BE DETERMINED TO MAINTAIN A MAXIMUM TRAVEL DISTANCE OF 50'-0".
- SPRINKLER LINES, MAINS, AND BRANCHES SHALL BE AS HIGH AS POSSIBLE IN OPEN AREAS.
- CALIBER COLLISION IS TO APPROVE ALL SPRINKLER DRAWINGS PRIOR TO INSTALLATION.
- FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING FORMAL "DESIGN INTENT" DRAWINGS INCLUDING FULL HYDRAULIC CALCULATIONS, SEALED BY A PROFESSIONAL ENGINEER MEETING ALL STATE AND LOCAL CODE REQUIREMENTS.
- FIRE EXTINGUISHERS SHALL BE UL & ULC RATED AT 2A:10B:C OR BETTER.

FIRE SPRINKLER NOTES

- FIRE SPRINKLER LINES AND SPRINKLER HEADS SHALL BE RELOCATED/ADJUSTED/INSTALLED AS REQUIRED BY A LICENSED FIRE SPRINKLER CONTRACTOR.
- FIRE SUPPRESSION SYSTEM IN PAINT BOOTHS TO BE BY OTHER. COORDINATE WITH PAINT BOOTH SUPPLIER. ALL
- FIRE SPRINKLER HEADS LOCATED INSIDE PAINT BOOTH ARE TO BE HIGH TEMP RATED. FIRE SUPPRESSION CONTRACTOR/PROVIDER SHALL COORDINATE FINAL TEMPERATURE REQUIREMENTS OF PAINT BOOTHS IN FIELD WITH PAINT BOOTH SUPPLIER.
- FIRE SPRINKLER DRAIN SHALL NOT DRAIN TO THE FRONT BUILDING ELEVATION, NO EXCEPTIONS.

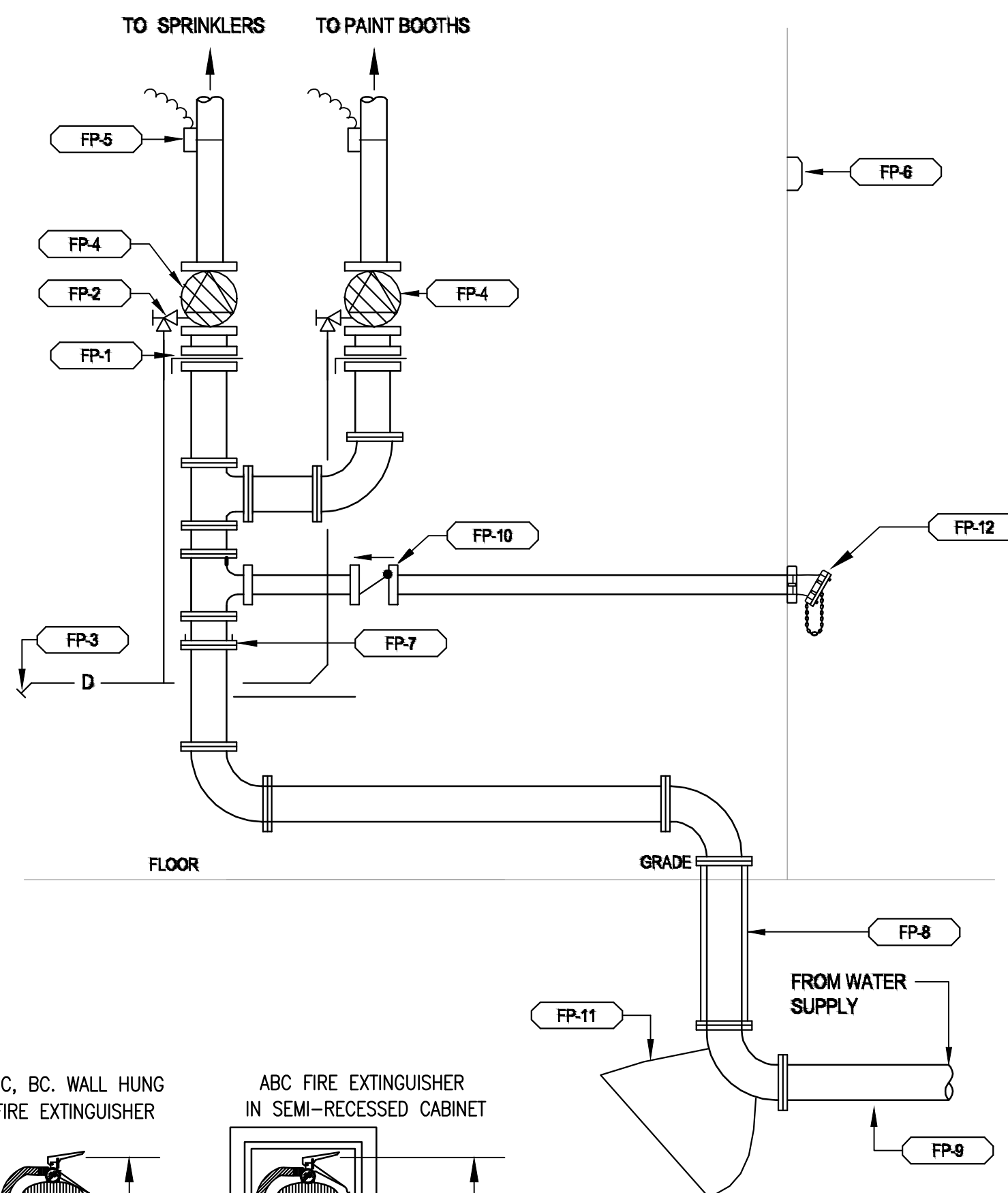
SPRINKLER INTENT INFORMATION

ZONE CLASSIFICATION **	REPAIR, DETAIL, AND SHOP AREAS	RESTROOMS AND OFFICE AREA
DENSITY	.20 GPM/ SQ. FT.	.10 GPM/ SQ. FT.
COVERAGE AREA	1500 SQ. FT.	1500 SQ. FT.
COVERAGE PER SPRINKLER	130 SQ. FT.	225 SQ. FT.
DISCHARGE TEMPERATURE	200°F	155°F
MAXIMUM HEAD SPACING	15 FT.	15 FT.
HOSE STREAM ALLOWANCE	250 GPM	100 GPM

COMMENTS:
** ZONE CLASSIFICATION SUBJECT TO AUTHORITY HAVING JURISDICTION.

SPRINKLER LEGEND

SYMBOL	DESCRIPTION
⊙	RECESSED PENDANT HEAD (155°F)
○	UPRIGHT HEAD (200°)
—○	HORIZONTAL SIDEWALL HEAD (200°)
▲	SPRINKLER RISER
● FE	FIRE EXTINGUISHER

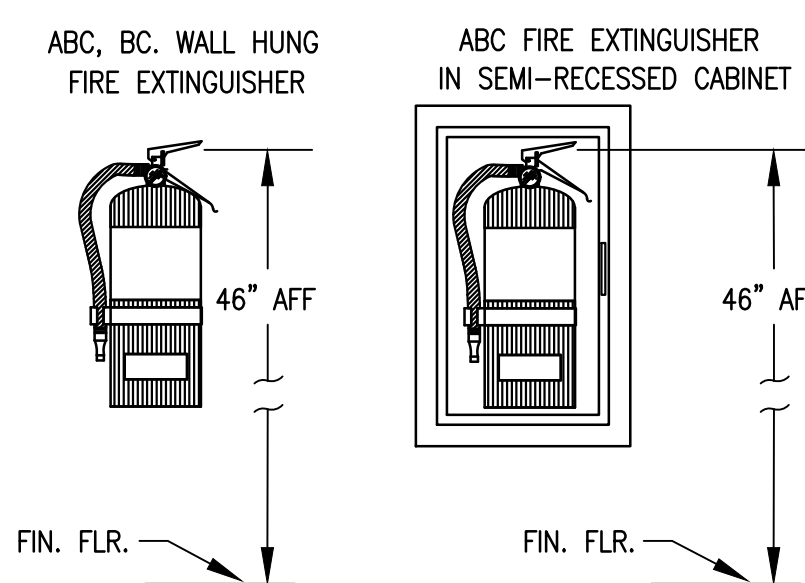


FIRE PROTECTION SYMBOL KEY (APPLIES TO DIAGRAMS THIS SHEET ONLY)	
SYMBOL	DESCRIPTION
FP-1	LISTED BUTTERFLY CONTROL VALVE WITH TAMPER SWITCH.
FP-2	MAIN DRAIN VALVE
FP-3	TO FLOOR SINK
FP-4	WET PIPE SYSTEM RISER
FP-5	FLOW SWITCH
FP-6	WEATHERPROOF HORN-STROBE (EXTERIOR)
FP-7	FLANGED CONNECTION
FP-8	COATED RODDING
FP-9	DUCTILE IRON SERVICE PIPING WITH POLY WRAP BELOW BUILDING, 200 PSI-RATED PIPING FROM VAULT TO BUILDING
FP-10	CHECK VALVE WITH BALL DRIP
FP-11	THRUST BLOCK PER NFPA-24
FP-12	5" "STORZ" FITTING WITH A CAP "KNOX 5-INCH LOCKING CAP" AND A 30 DEGREE TURN-DOWN

NOTE 1: FIRE PROTECTION DIAGRAM DOES NOT SHOW ALL REQUIRED TRIM AND/OR COMPONENTS, SUCH AS TAMPER SWITCHES, FLOW SWITCHES, PRESSURE GAUGES, VALVES, DRAIN CUPS ETC. ALL REQUIRED TRIM COMPONENTS SHALL BE PROVIDED AS REQUIRED BY NFPA-13. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

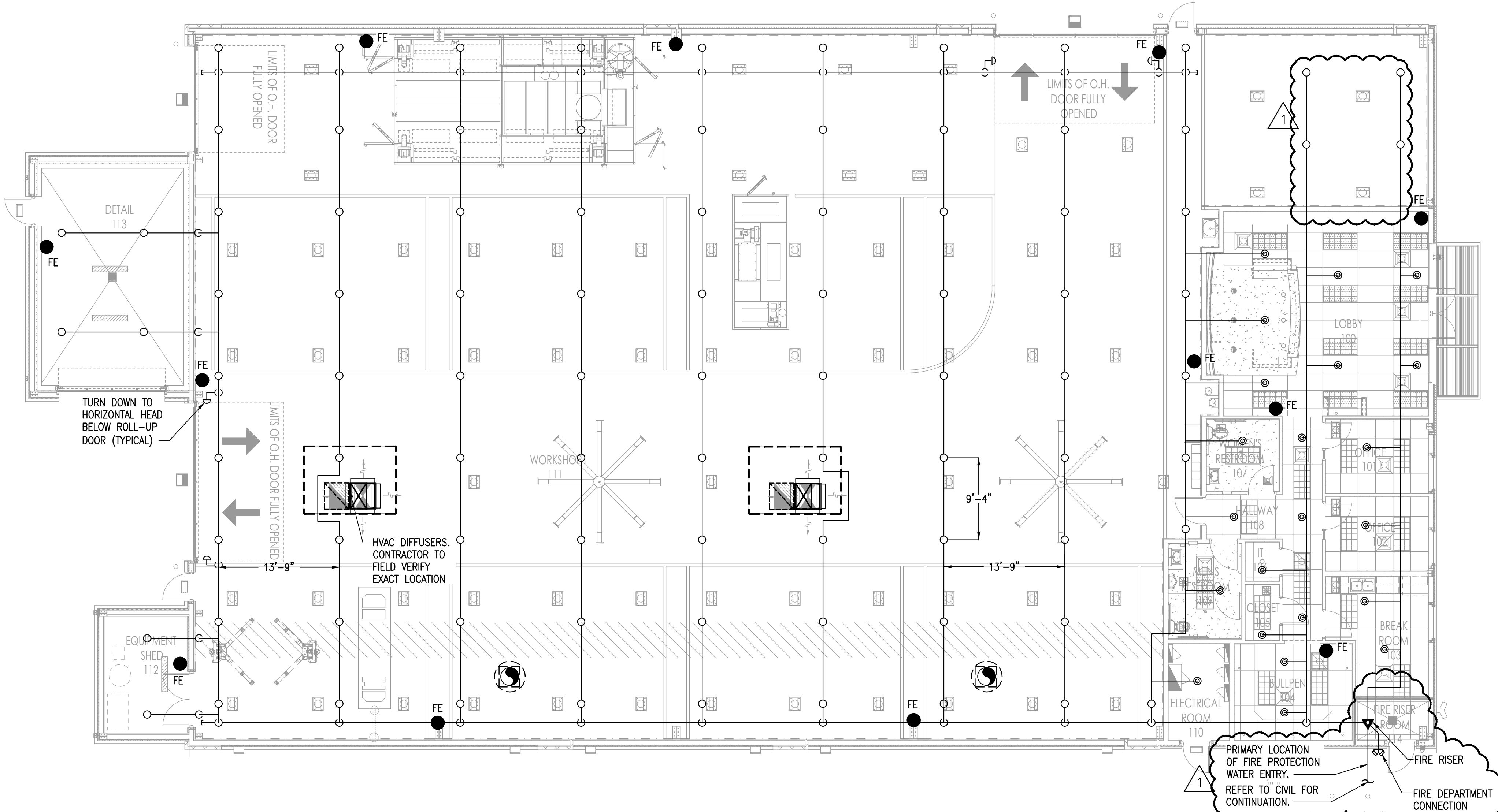
FIRE PROTECTION RISER DETAILS

SCALE: NONE



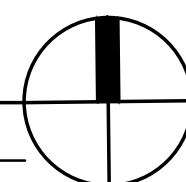
FIRE EXTINGUISHER MOUNTING HEIGHT

SCALE: NONE



PLUMBING FLOOR PLAN - WASTE / VENT

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



1163 West Main St.
Franklin, TN 37064
Tel: 615.730.9111 / Fax: 615.224.3599
gary@scheltonengineering.com
Project #21-008

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Job Number: 2116

Date: 12.10.2021

Revisions: 1 01.07.2022

Revisions:

Revisions:

FIRE PROTECTION FLOOR PLAN

Sheet Number: FP1.0



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Suite 120
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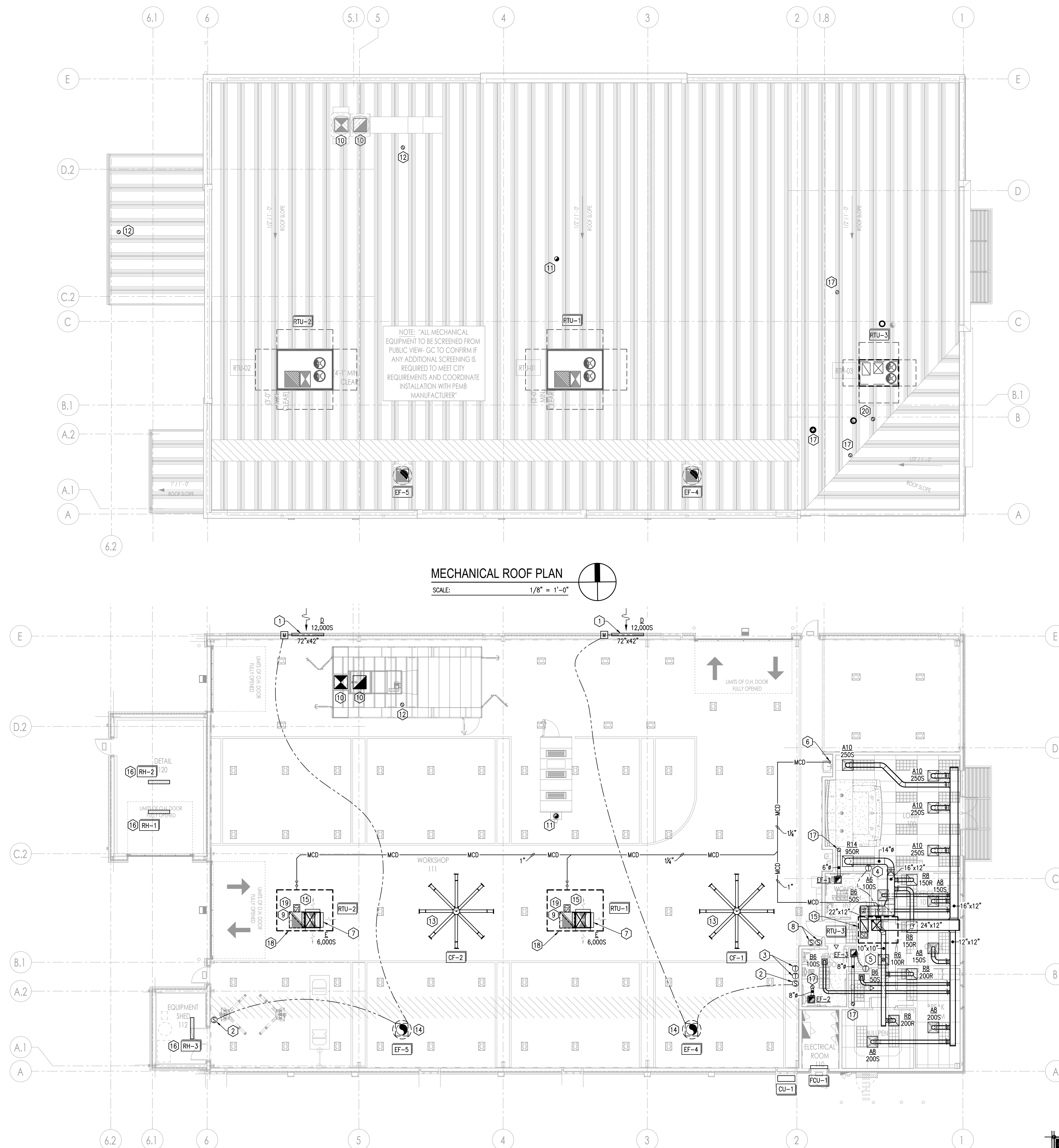
Revisions:

MECHANICAL FLOOR PLAN

Sheet Number: M1.0

Schelton
ENGINEERING

1163 West Main St.
Franklin, TN 37064
Tel: 615.730.9111 / Fax: 615.224.3899
gary@scheltonengineering.com
Project #21-008



MECHANICAL ROOF PLAN

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

MECHANICAL FLOOR PLAN

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

CONSTRUCTION NOTES

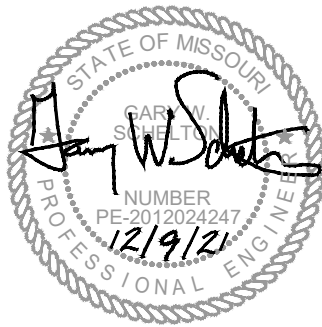
- 1 MOUNT LOUVERS AS HIGH AS POSSIBLE.
- 2 CARBON MONOXIDE SENSOR, MACURCO MODEL CM-12 WITH AUDIO AND VISUAL ALARM, OR APPROVED EQUAL. MOUNT AT 96" A.F.F. INTERLOCK WITH EXHAUST FANS.
- 3 WALL MOUNTED TEMPERATURE CONTROLLERS MOUNTED 48" A.F.F. INTERLOCK WITH DUCT MOUNTED TEMPERATURE SENSORS MOUNTED IN RETURN AIR STREAM OF RTU-1&2. THERMOSTATS TO BE PROVIDED WITH PASSWORD LOCK-OUT CAPABILITY OR LOCK BOXES.
- 4 FURNISH AND INSTALL NEW PROGRAMMABLE THERMOSTAT PER SPECIFICATIONS. MOUNT THERMOSTAT AT 48" A.F.F. PROVIDE WITH PASSWORD LOCK-OUT CAPABILITY OR LOCK BOX.
- 5 LOUVERED DOOR FOR IT ROOM EXHAUST BY OTHERS.
- 6 ROUTE 1-1/4" MCD DOWN THRU ROOF TO SERVICE SINK WITH AIR GAP.
- 7 REFER TO "CONCENTRIC DIFFUSER DETAIL" SHEET M3.0 FOR INSTALLATION INSTRUCTIONS. MOUNT BOTTOM OF DIFFUSER 18" BELOW STRUCTURAL BEAMS.
- 8 PROVIDE WALL MOUNTED FAN SPEED CONTROLLER FOR CF-1&2.
- 9 INSTALL RETURN AIR DROP BOX WITH FILTER RACK AND HARDWARE CLOTH. BOTTOM OF PLENUM TO BE AT 12'-0" A.F.F.
- 10 PROVIDE ROOF PENETRATIONS AND ROOF CURBS FOR BOOTH INTAKE DUCT AND EXHAUST DUCT. COORDINATE ROOF PENETRATION AND ROOF CURB LOCATION AND SIZE WITH BOOTH MANUFACTURER IN THE FIELD PRIOR TO INSTALLATION. PENETRATIONS TO BE 10'-0" APART WHEN POSSIBLE. MAINTAIN 10'-0" CLEARANCE BETWEEN BUILDING INTAKE AND EXHAUST OPENINGS. SPRAY BOOTH MANUFACTURER TO PROVIDE ALL NECESSARY DUCTWORK AND CAPS FOR A COMPLETE WORKABLE SYSTEM. EXHAUST OUTLETS TO BE INSTALLED IN ACCORDANCE WITH 2015 IMC SECTION 501.3.1.
- 11 PROVIDE ROOF PENETRATION FOR BOOTH EXHAUST DUCT. COORDINATE ROOF PENETRATION AND SIZE WITH BOOTH MANUFACTURER IN THE FIELD PRIOR TO INSTALLATION. MAINTAIN 10'-0" CLEARANCE FROM ANY BUILDING INTAKE. PAINT BOOTH MANUFACTURER TO PROVIDE ALL NECESSARY DUCTWORK AND CAPS FOR A COMPLETE WORKABLE SYSTEM. EXHAUST OUTLETS TO BE INSTALLED IN ACCORDANCE WITH 2015 IMC SECTION 501.3.1.
- 12 PROVIDE GAS VENT UP THROUGH ROOF, ROUTE THROUGH ROOF AND SEAL ROOF PENETRATION AIR AND WATER TIGHT. MAINTAIN 10'-0" CLEARANCE BETWEEN BUILDING INTAKE AND EXHAUST OPENINGS. ALL EQUIPMENT AND MATERIAL FOR A COMPLETE AND OPERABLE BOOTH TO BE FURNISHED BY OTHERS WHERE APPLICABLE. COORDINATE ROOF PENETRATION AND SIZES WITH BOOTH MANUFACTURER IN THE FIELD PRIOR TO INSTALLATION. EXHAUST OUTLETS TO BE INSTALLED IN ACCORDANCE WITH 2015 IMC SECTION 501.3.1.
- 13 MOUNT FAN 12" A.F.F. CONTRACTOR TO PROVIDE MOUNTING KIT AND EXTENSION TUBE AS REQUIRED.
- 14 ROUTE 30"x30" EXHAUST DUCT DOWN 18" FROM EXHAUST FAN AND TERMINATE LOUVER WITH WIRE MESH SCREEN.
- 15 AIR SIDE ECONOMIZER KIT TO BE INSTALLED ON UNIT.
- 16 INSTALL RADIANT HEATERS TIGHT TO BOTTOM OF STRUCTURE AND IN A MANNER AS NOT TO DAMAGE ANY VEHICLES PER MANUFACTURERS RECOMMENDATIONS.
- 17 EXHAUST DUCT UP THROUGH ROOF TO ROOF CAP. SEAL WEATHER TIGHT AND MAINTAIN 10'-0" CLEARANCE FROM FRESH AIR INTAKES.
- 18 FURNISH RTU ON SLOPED CURB, TO MATCH ROOF SLOPE. EXTEND SUPPLY AND RETURN DUCT THROUGH CURB AND INTO SHOP AREA 18" BELOW BOTTOM OF TRUSSES.
- 19 ROUTE CONDENSATE AS SHOWN. PROVIDE WITH AIR GAP.
- 20 VENT PIPE UP THRU ROOF, MAINTAIN MIN. 10'-0" CLEARANCE FROM FRESH AIR INTAKES.



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MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING SUPPLY AIR DUCT
	NEW RIGID SHEET METAL SUPPLY AIR DUCT
	EXISTING RETURN AIR DUCTWORK
	NEW RIGID SHEET METAL RETURN AIR DUCT
	NEW EXHAUST AIR DUCTWORK
	NEW OUTSIDE AIR DUCTWORK
	MOTORIZED AIR DAMPER
	DUCT MOUNTED SMOKE DETECTOR
	MANUAL VOLUME DAMPER
	CEILING DIFFUSER
	CEILING RETURN AIR GRILLE
	CEILING OR INLINE CABINET EXHAUST FAN
A.F.F.	ABOVE FINISHED FLOOR
O.A.	OUTSIDE AIR
AHU-1	EQUIPMENT LABEL (SEE MECH. SCHEDULE FOR INFO.)
Ⓟ	THERMOSTAT
	AIR FLOW
	UNDERCUT DOOR 3/4"
	MECHANICAL CONDENSATE DRAIN LINE

GAS FIRED RADIANT HEATER SCHEDULE	
UNIT IDENTIFICATION	RH-1, RH-2, & RH-3
MANUFACTURER	SUNPAK
MODEL NUMBER	S25-TSH
AREA SERVED	DETAIL BAY
GAS MBH INPUT	25
ELECTRIC	24 VOLT
FLA	.8
UNIT WEIGHT (APPROX.)	41 LBS.
ACCESSORIES:	A,B,C,D
A: PRESSURE REGULATOR B: SAFETY CONTROLS C: MOUNTING KIT (FINISH PER ARCH.) D: ELECTRIC IGNITION	
REMARKS: - UNIT SHALL BE A.G.A. CERTIFIED AND U.L. LISTED. - PROVIDE ALL REQUIRED MOUNTING HARDWARE FOR MOUNTING TO STRUCTURE. OBSERVE MANUFACTURERS REQUIRED MINIMUM CLEARANCES. - COORDINATE ELECTRICAL REQUIREMENTS PRIOR TO INSTALL. - PROVIDE ALL HEATERS WITH PUSH BUTTON OVERRIDE. ALL HEATERS ARE TO BE WIRED BACK TO SINGLE PUSH BUTTON. UNIT HEATERS SHALL BE ENERGIZED UPON ACTIVATION OF WALL SWITCH.	

FAN SCHEDULE					
FAN IDENTIFICATION	EF-1	EF-2	EF-3	EF-4,5	
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	
MODEL NUMBER	SP-B90	SP-B150	SP-A250	GB-300	
AREA SERVED	RESTROOMS	RESTROOMS	I.T.	SHOP	
FAN TYPE	CEILING MTD.	CEILING MTD.	CEILING MTD.	ROOF MTD.	
CFM	75	150	200	12,000	
ESP	0.25	0.25	0.25	0.5	
SONES	1.5	2.5	2.5	23	
MOTOR POWER	49.7 WATTS	128.0 WATTS	83.1 WATTS	5 HP	
VOLTAGE/PHASE	120/1Ø	120/1Ø	120/1Ø	480/3Ø	
WEIGHT	12 LBS.	12 LBS.	13 LBS.	200 LBS.	
ACCESSORIES REQUIRED	A,B,C	A,B,C	A,B,C,F	D,E,G,H	
ACCESSORIES: A: BACKDRAFT DAMPER B: VARIABLE SPEED CONTROLLER C: ROOF CAP D: DISCONNECT E: ROOF CURB AND BIRDSCREEN F: THERMOSTAT G: OCCUPANCY CENTER. H: CONTRACTOR					
REMARKS: - EF-1 & 2 TO BE INTERLOCKED WITH OCCUPANCY SENSOR MOUNTED IN SPACE. - EF-3 SHALL BE THERMOSTATICALLY CONTROLLED. SET POINT 85°F OR AS DIRECTED BY OWNER. - EF-4,5 SHALL BE CONTROLLED BY CARBON MONOXIDE SENSOR. INTERLOCK WITH RESPECTIVE WALL LOUVER CONTROL DAMPER. DAMPERS SHALL OPEN WHEN FAN IS ENERGIZED AND CLOSE WHEN FAN IS OFF. PROVIDE MANUAL PUSH-BUTTON OVERRIDE FOR EACH FAN. COORDINATE LOCATION OF OVERRIDE WITH OWNER.					

DUCTLESS SPLIT SYSTEM			
CONDENSING UNIT:	CU-1		
MANUFACTURER	MITSUBISHI		
TYPE	WALL MTD		
LOCATION	ELECT. ROOM		
MODEL NO.	MU-A12WA		
SEER	13		
VOLTAGE/PHASE	115/1		
COND. UNIT M.C.A./M.O.C.P.	-/20		
OPERATING WEIGHT (LBS.)	25		
AIR HANDLER:	FCU-1		
MODEL NO.	MS-A12WA		
FCU UNIT M.C.A.	0.95 FLA (1.2 MCA)		
TOTAL COOLING(BTUH)	12,000		
MAXIMUM CFM	446		
ENT. AIR TEMP DB/WB (DEG F)	80/67		
OPERATING WEIGHT (LBS)	25		
ACCESSORIES REQUIRED	A,B,C,D		
ACCESSORIES: A: REMOTE THERMOSTAT C: ANTI-SHORT CYCLE TIMER B: CONDENSATE PUMP D: HIGH & LOW PRESSURE CUTOUTS			
REMARKS: - FURNISH COMPLETE OPERATING CONTROLS - ROUTE PUMPED CONDENSATE LINE TO NEAREST APPROVED DRAIN.			

CIRCULATION FAN SCHEDULE			
IDENTIFICATION	CF-1,2		
MANUFACTURER	BIG ASS FANS		
MODEL NO.	PF8-12		
FAN DIAMETER (IN.)	3		
MOTOR SPEED	350		
HP	2.0		
VOLTAGE / PHASE	480V/3Ø		
FREQUENCY (HZ)	60		
MAX AMPS	10		
WEIGHT	209		
APPLICABLE NOTES	1,2		
NOTES: 1. FURNISH MANUFACTURER'S WALL MOUNTED KEYPAD. SEE DRAWINGS FOR MOUNTING LOCATION. 2. FACTORY MOUNTED DISCONNECT SWITCH.			

PACKAGED GAS FIRED AC UNIT SCHEDULE			
IDENTIFICATION	RTU-1,2	RTU-3	
MANUFACTURER	YORK	YORK	
MODEL NUMBER	AV15N1CV4L1CYP12C1	ZH060HID4C6QCA2A1	
NOMINAL TONS	15	5	
SEER	-	15.0	
EER	10.9	12.2	
VOLTAGE	460/3Ø	480/3Ø	
UNIT M.C.A.	35.6	14.7	
UNIT M.O.C.P.	45	20.0	
TOTAL COOLING CAP. (MBH)	173.2	62.0	
SENSIBLE COOLING CAP. (MBH)	135.7	46.0	
FAN SECTION:			
CFM SUPPLY	6000	2,000	
CFM O.A.	600	-	
EVAP. FAN H.P.	3.0	2	
ESP-IN WG.	.75	.8	
HEATING SECTION:			
FUEL	NAT. GAS	NAT. GAS	
HEATING INPUT (MBH)	220	120.0	
HEATING OUTPUT MBH	178	97.0	
FILTER	2"	2"	
OPERATING WT. (LBS.)	2,400	1,105	
NOTES	1 THRU 16	1 THRU 16	
NOTES: 1. COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL, 95°F DB ENTERING CONDENSER. 2. HEATING CAPACITY BASED ON NATURAL GAS AT 1000 BTU PER CUBIC FOOT AND 0.6 SPECIFIC GRAVITY. 3. PROVIDE VIBRATION ISOLATORS FOR PME BUILDING MANUFACTURER PROVIDED CURBS. 4. PROVIDE FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROVING SWITCH. 5. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY. 6. PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS. 7. PROVIDE 10 YEAR HEAT EXCHANGER WARRANTY. 8. PROVIDE FACTORY INSTALLED SMOKE DETECTORS ON THE RETURN DUCT DISCHARGES. 9. PROVIDE FACTORY INSTALLED DIFFERENTIAL ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF. O.A. DAMPER SHALL CLOSE DURING UNOCCUPIED HOURS. 10. MECHANICAL CONTRACTOR SHALL PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED PRIOR TO STORE OPENING. 11. UNIT SHALL USE R-410A REFRIGERANT (NO EXCEPTIONS). 12. MECHANICAL CONTRACTOR SHALL PROVIDE A START UP CHECKLIST CONFIRMING ALL UNITS HAVE BEEN PROPERLY STARTED AND CONFIRMED RUNNING PROPERLY. CHECKLIST MUST BE PROVIDED TO CALIBER COLLISION VIA CLOSE-OUT BINDER. 13. STENCIL TAG NUMBER ON SIDE OF UNITS (FACING ROOF HATCH) WITH 3" HIGH LETTERS AND BLACK EXTERIOR PAINT. 14. NON-POWERED CONVENIENCE OUTLET. 15. PROVIDE COIL (HALL) GUARDS. 16. PROVIDE WALL MOUNTED 7-DAY AUTO-CHANGE-OVER PROGRAMMABLE THERMOSTAT WITH 2 HR OCCUPANT OVERIDE, 10 HR BACK-UP, 5F DEAD BAND, SET-POINT OVERLAP RESTRICTIONS.			

AIR DISTRIBUTION SCHEDULE					
DEVICE CODE	X 10 300S	MANUFACTURER	MODEL NO.	DESCRIPTION	FACE DIMENSIONS
A		TITUS	TMSA	PERFORATED FLUSH FACE SUPPLY DIFFUSER	24" x 24"
B		TITUS	OMNI	CEILING PLAQUE DIFFUSER	12" x 12"
R		TITUS	8R	CEILING PERFORATED RETURN	24" x 24"
D		GREENHECK	EAC-601	WALL LOUVER	72" x 42"
E		RUSKIN	DLD 3012	PLENUM SUPPLY GRILLE	SEE PLAN
NOTES: 1. AIR DEVICE COLORS TO BE SPECIFIED BY ARCHITECT 2. PROVIDE ROUND NECK COLLARS FOR CEILING DIFFUSERS AND GRILLES UNLESS NOTED OTHERWISE. PROVIDE WITH COLLAR SIZE EQUAL TO CONNECTION SIZE INDICATED ON DRAWING. 3. PROVIDE LAY-IN TYPE BORDER FOR CEILING WITH ACOUSTICAL TILE AND SURFACE MTD. TYPE BORDER FOR GYPBOARD CEILINGS AND WALL-MOUNTED AIR DEVICES (REFER ARCHITECTURAL DWG'S) 4. 120V ACTUATOR					
				DEVICE TAG KEY - DEVICE CODE (SEE SCHEDULE ABOVE) - DUCT RUNOUT SIZE IN INCHES - AIRFLOW TYPE: S = SUPPLY R = RETURN E = EXHAUST - AIRFLOW IN CFM	

VENTILATION / AIR BALANCE SCHEDULE					
UNIT IDENTIFICATION	O.A.	R.A.	S.A.	E.A.	PRESSURE
RTU-3	250	1,750	2,000		+ 250
EF-1	N/A	N/A	N/A	75	-75
EF-2	N/A	N/A	N/A	150	-150
TOTAL					+25

INTERNATIONAL MC 403.3 COMPLIANCE SCHEDULE							
UNIT NUMBER	RTU-3					RTU-1,2	TOTAL
AREA SERVED	OFFICES	MAIN LOBBY	CORRIDOR	DATA ENTRY	BREAK ROOM	SERVICE BAY	
AREA (SQ. FT)	200	520	200	200	140	8,800	
NO. PEOPLE/1000 SQ. FT. (TABLE 403.3)	5	10	N/A	60	10	N/A	
PEOPLE QUANTITY	2	6	N/A	N/A	4	N/A	
AIRFLOW PER PERSON (TABLE 403.3)	5	5	N/A	N/A	5	N/A	
CFM / SQ. FT.	.06	.06	.06	.06	.06	.12	
TOTAL O.A. REQUIRED (CFM)	25	60	15	40	30	1,200	1,270
NOTES: ACTUAL O.A. MAY EXCEED TOTAL O.A. INDICATED IN CHART.							

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Date: 12.10.2021

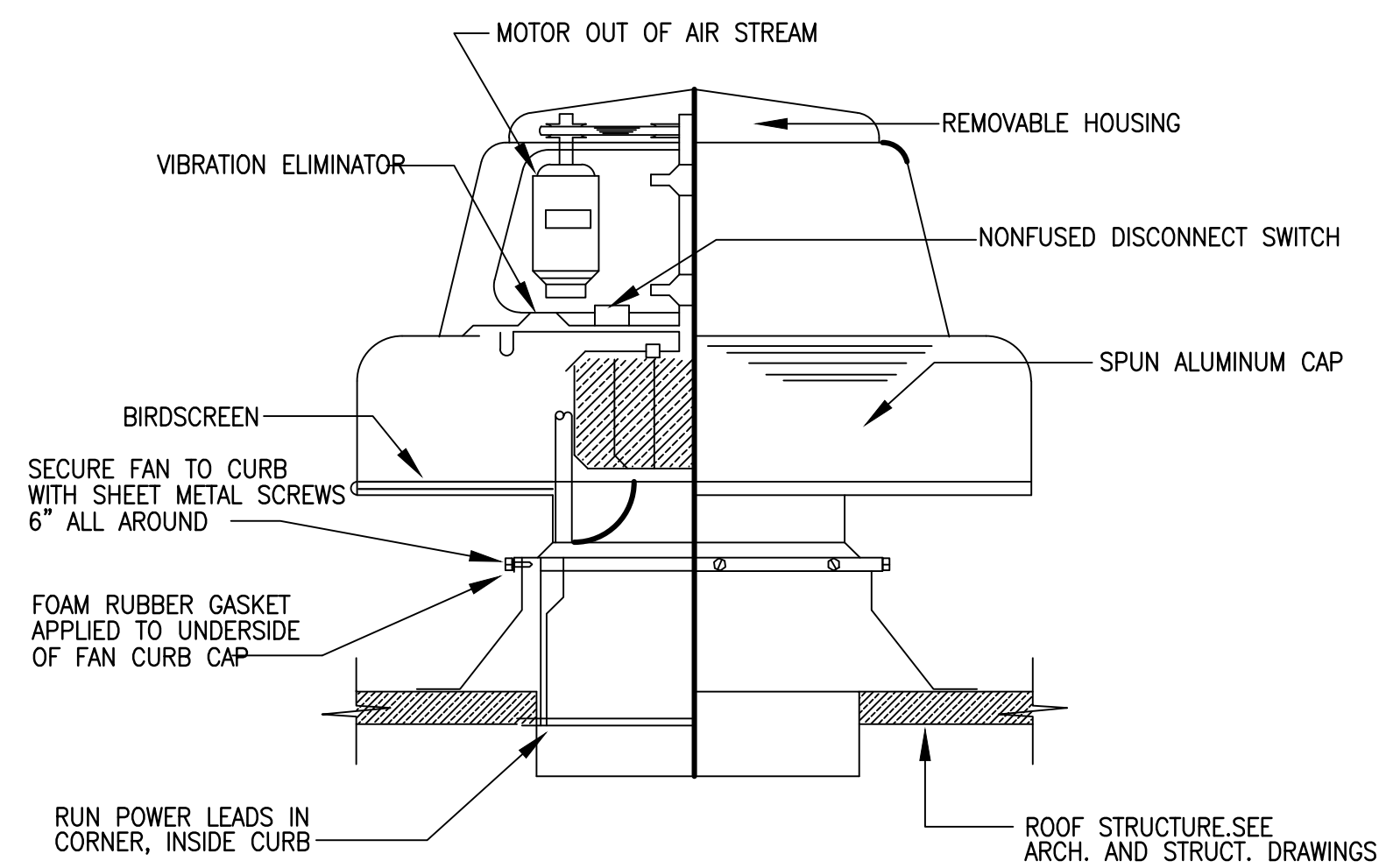
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Revisions:

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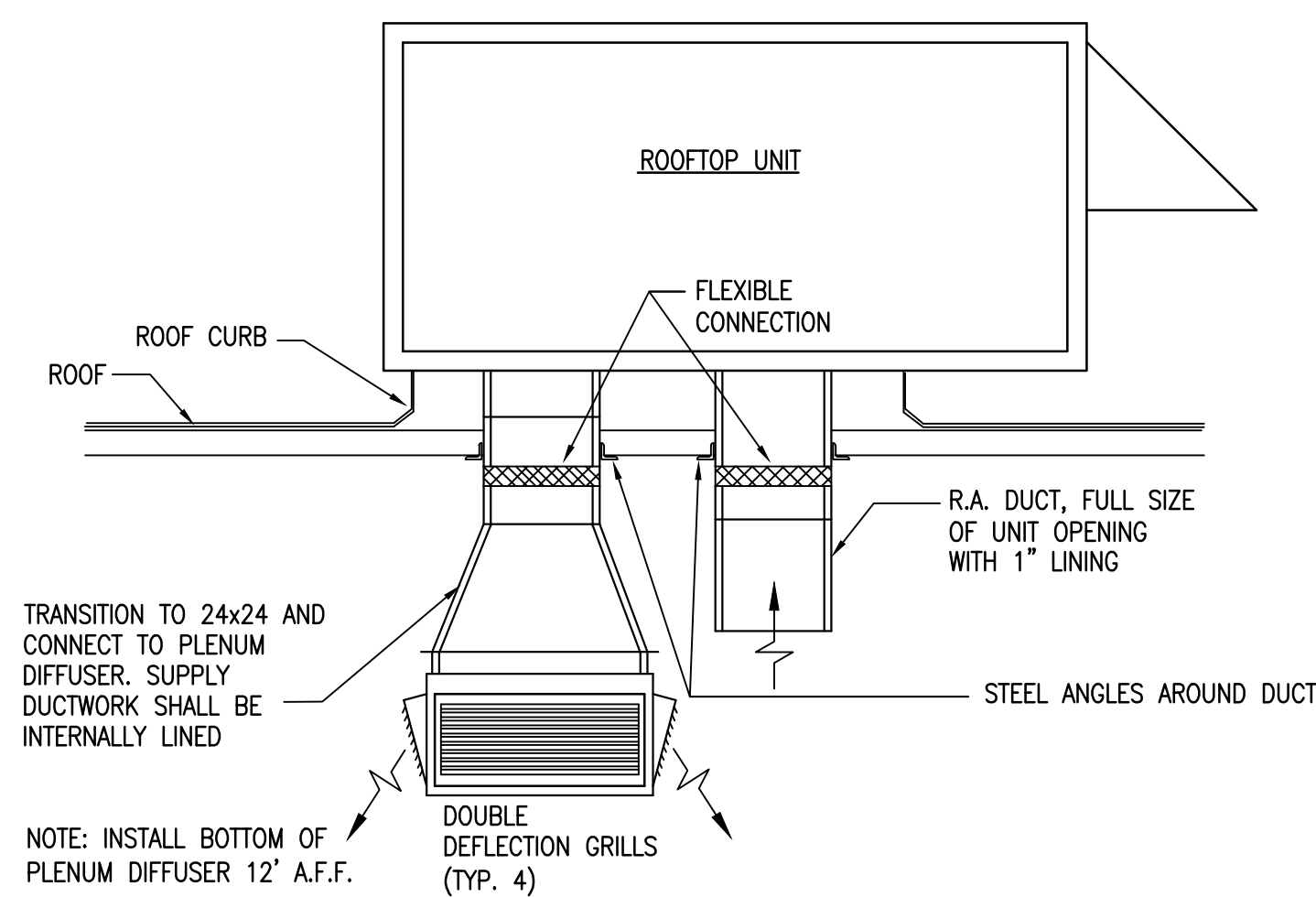
MECHANICAL SCHEDULES

Sheet Number: M2.0



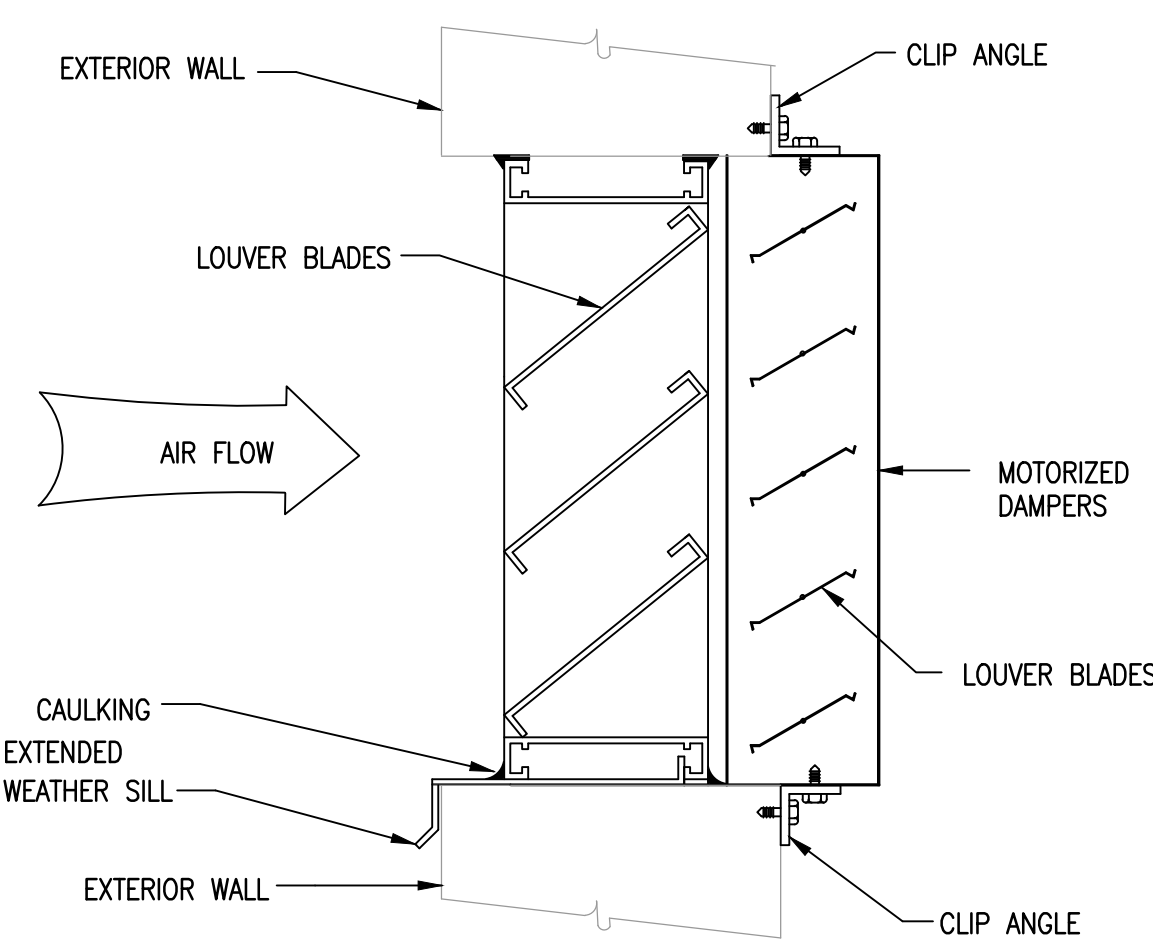
ROOF MOUNTED EXHAUST FAN DETAIL

SCALE: NONE



CONCENTRIC DIFFUSER DETAIL (EXPOSED CEILING)

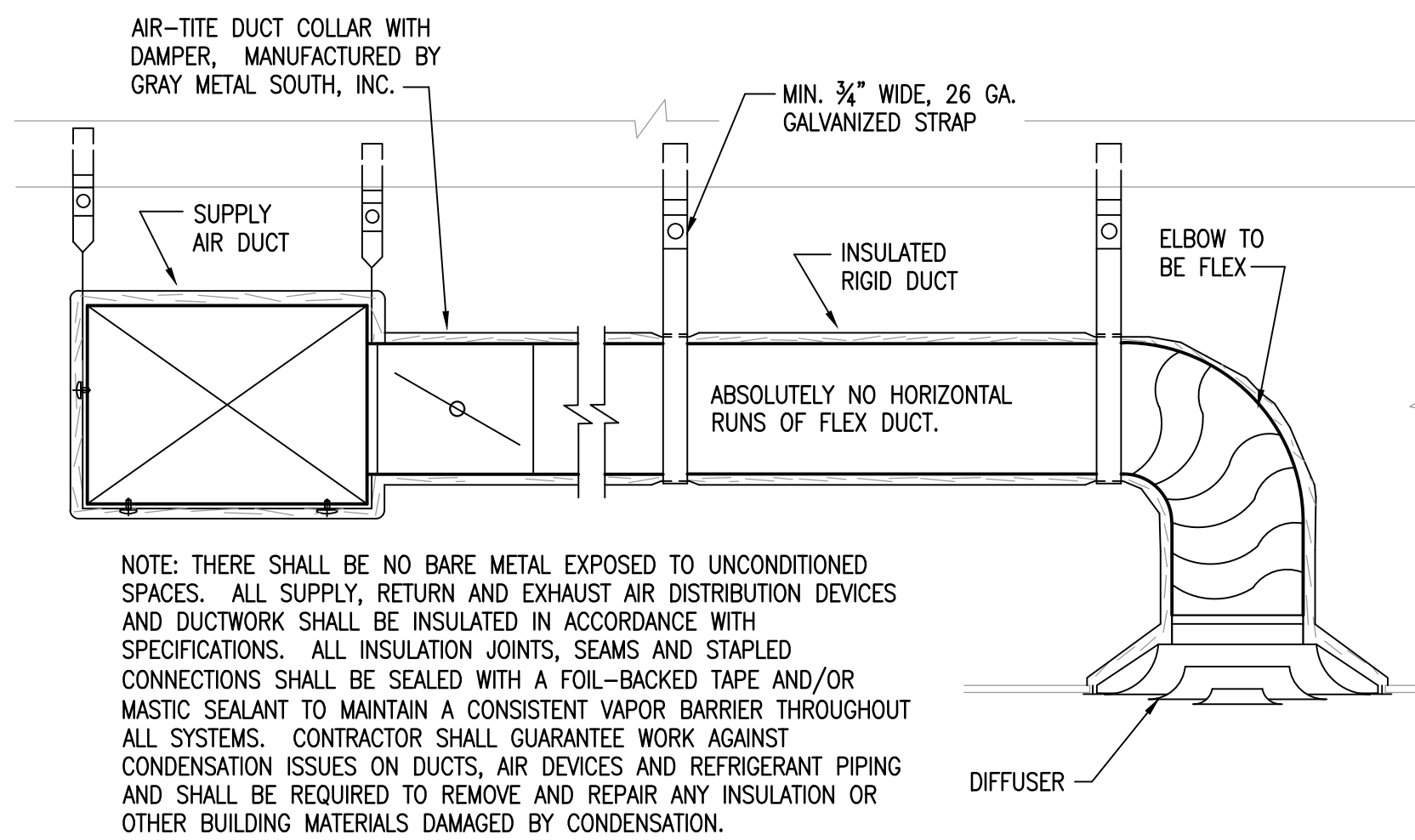
SCALE: NONE



WALL MOUNTED LOUVER W/

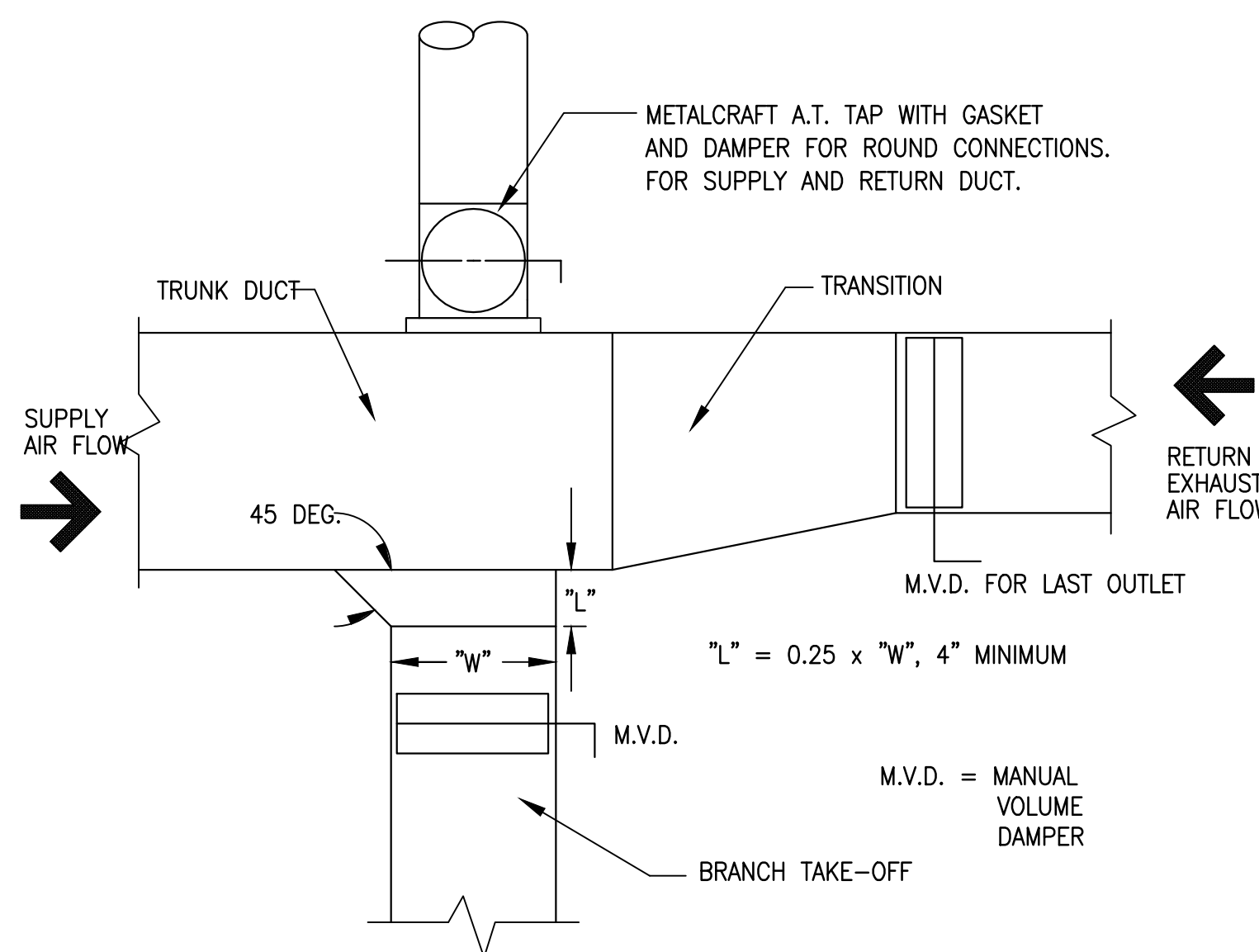
MOTORIZED DAMPERS DETAIL

SCALE: NONE



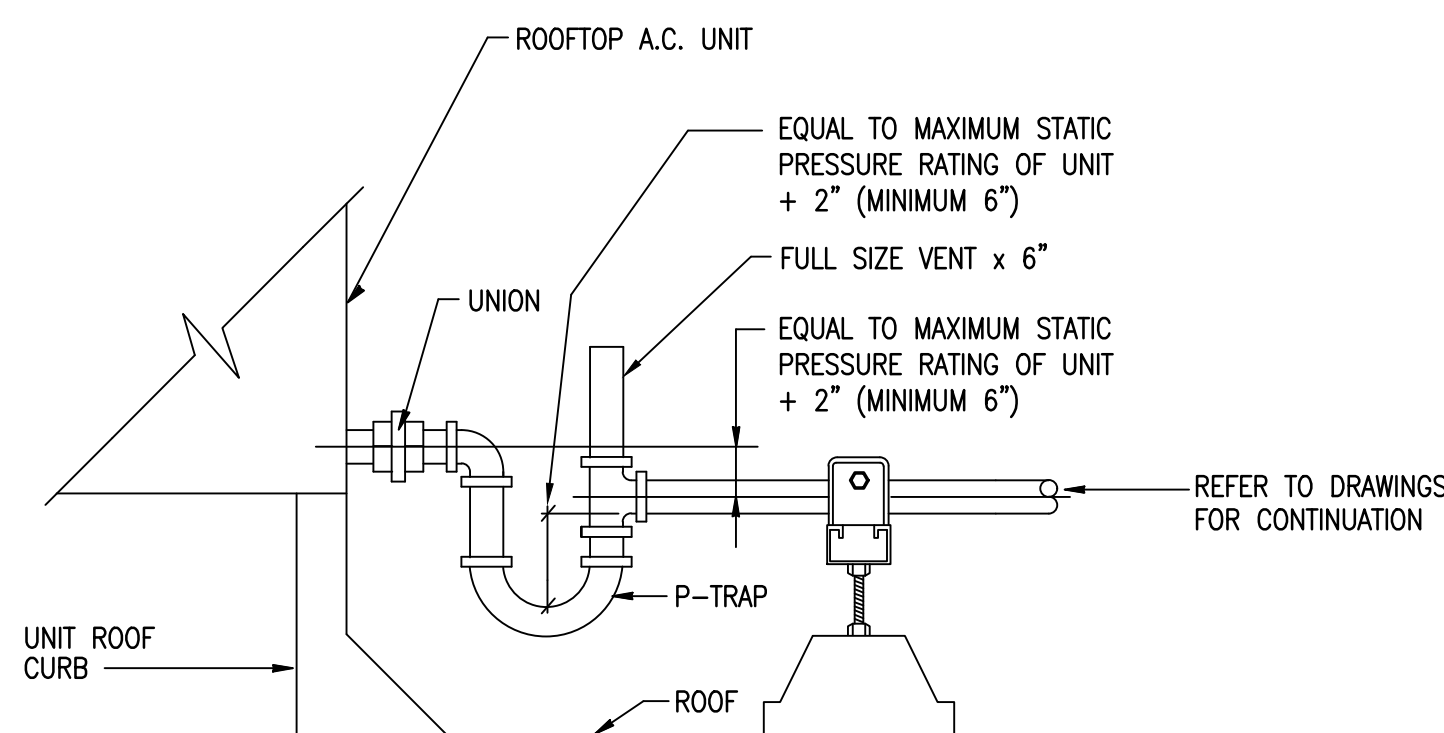
DUCT CONNECTION TO CEILING DIFFUSER DETAIL

SCALE: NONE



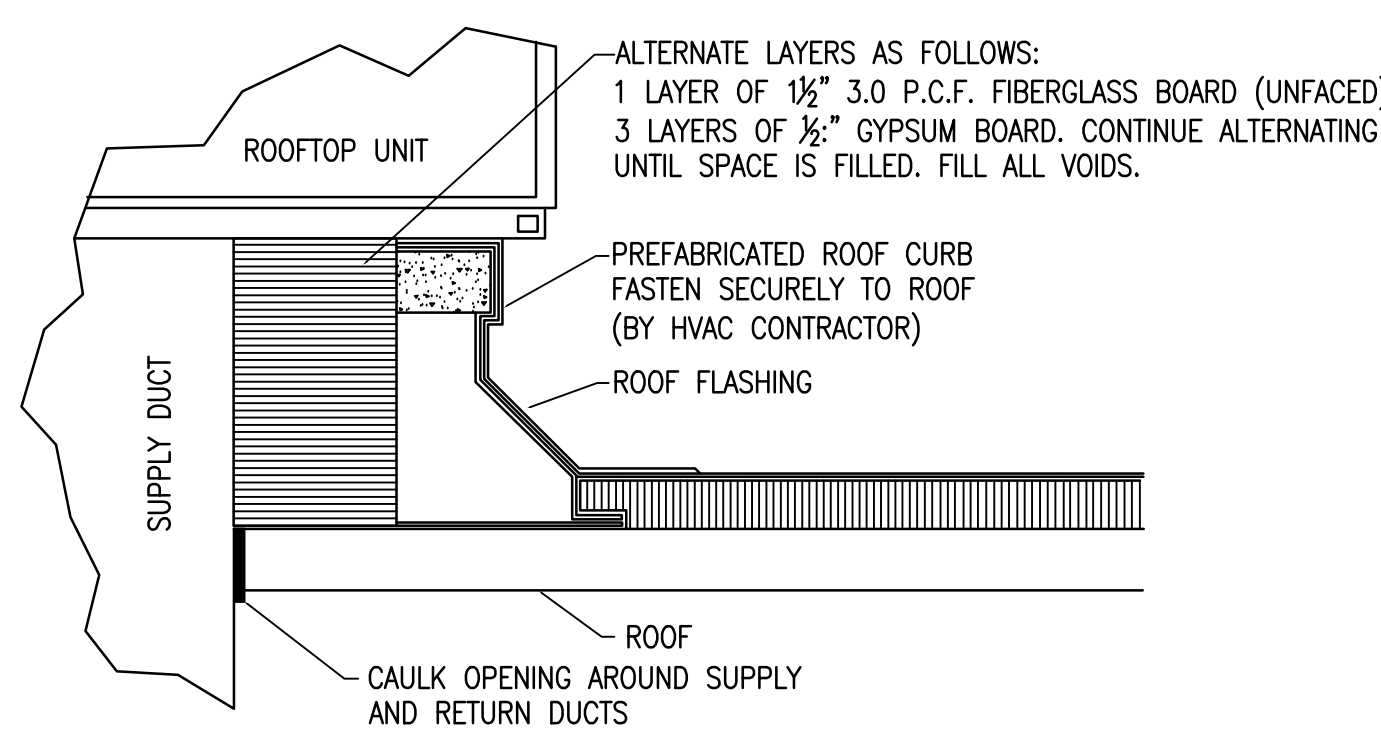
RECT. DUCT BRANCH TAKE-OFF DETAIL

SCALE: NONE



ROOFTOP A/C UNIT
CONDENSATE DRAIN PIPING

SCALE: NONE



ROOFTOP UNIT CURB DETAIL

SCALE: NONE

FLEX DUCT INSTALL INSTRUCTIONS

- ROLL FLEX INSULATION BACK FROM END THAT IS TO BE CONNECTED TO DUCT OR DIFFUSER NECK.
- SLIDE INNER LINER OVER DUCT OR DIFFUSER NECK.
- INSTALL PANDUIT STRAP AROUND INNER LINER AND SECURE TIGHTLY. INSTALL 2 SELF TAPPING SHEET METAL SCREWS (ONE ON EACH SIDE) THRU PANDUIT STRAP.
- FULL ENDS OF INSULATION TIGHT TO EACH OTHER AND SECURE WITH FOIL FACED TAPE.

**HVAC RETURN AND SUPPLY-
EXTERIOR INSULATION SPECIFICATION AND GUIDELINES**

A. RETURN AIR BOXES TO BE INSULATED WITH EXTERIOR WRAP INSULATION, TAPED AND WRAPPED TO LIMIT AIR AND MOISTURE PENETRATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

B. 1/2" FOIL FACED INSULATION SHALL BE APPLIED TO BACKS OF DIFFUSERS IN FIELD. INSULATION SHOULD THEN BE TAPED SECURELY AT DIFFUSER EDGES AND NECK, WITH FOIL FACED TAPE.

HEATING, VENTILATING AND AIR CONDITIONING SPECIFICATIONS

PART 1 GENERAL

- FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION AND INCIDENTALS TO COMPLETE IN EVERY DETAIL, AND LEAVE IN WORKING ORDER ALL ITEMS CALLED FOR HEREIN OR SHOWN ON THE ACCOMPANYING DRAWINGS.
- IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.
- LAYOUT SHOWN IN DRAWINGS IS BASED ON A PARTICULAR MAKE OF EQUIPMENT. CONTRACTOR SHALL PROVIDE SIX SUBMITTAL SETS OF SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO STARTING WORK. IF ANOTHER MAKE OF EQUIPMENT IS DESIRED, THESE SUBMITTALS SHALL ALSO SHOW ALL REQUIRED MODIFICATIONS AND CHANGES, INCLUDING THOSE INVOLVING OTHER TRADES, AND COST THEREOF SHALL BE INCLUDED IN HIS BID. REQUESTS FOR SUBSTITUTION OF PRODUCTS NOT SPECIFICALLY NAMED SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) CALENDAR DAYS PRIOR TO THE BID DATE. REQUESTS SHALL INCLUDE DESCRIPTION OF ITEM(S), NAME OF MANUFACTURER TO BE SUBSTITUTED AND CATALOG DATA. REQUESTS SHALL BE REVIEWED ONLY TO APPROVE OR REJECT SUBMISSION OF PRODUCT. DETAILED SUBMITTALS SHALL BE SUBMITTED AS NOTED IN OTHER PORTIONS OF THIS SPECIFICATION. DO NOT SUBSTITUTE MATERIALS, EQUIPMENT OR METHODS UNLESS SUCH SUBSTITUTION HAS BEEN APPROVED IN WRITING. DO NOT ASSUME THAT MATERIALS, EQUIPMENT OR METHODS WILL BE APPROVED UNTIL SPECIFIC WRITTEN APPROVAL HAS BEEN GIVEN. THE BURDEN OF PROOF FOR REQUESTED SUBSTITUTIONS RESTS WITH THE CONTRACTOR. CONTRACTOR MUST RECEIVE APPROVED SUBMITTAL COPY, SIGNED BY ENGINEER BEFORE PROCEEDING WITH ANY MODIFICATIONS. WORK INSTALLED USING UNAPPROVED SUBSTITUTIONS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL VISIT THE SITE AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING SCOPE OF WORK. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR OF ANY RESPONSIBILITY IN THE PERFORMANCE OF HIS WORK. ALL WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE BY CRAFTSMEN SKILLED IN THIS PARTICULAR WORK. CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN ALL PERMITS AND CERTIFICATES OF INSPECTION RELATIVE TO THIS WORK.
- COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF THE FOLLOWING:
STATE BUILDING CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CONSERVATION CODE NFPA-90A, NFPA-101, NFPA-54.
ALL EQUIPMENT SHALL BE ARI CERTIFIED AND U.L. LISTED.
- SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM OF FIVE (5) YEAR (PARTS ONLY) WARRANTY.
- UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO ACCEPTABLE CONDITION. ALL EQUIPMENT, COMPONENTS AND DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.
- IF HVAC EQUIPMENT IS USED FOR TEMPORARY HEATING, ETC., THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR CLEANING FILTERS, COILS, ETC. FINAL PERMANENT CONNECTIONS OF SERVICES TO UNITS SHALL BE COMPLETE PRIOR TO ANY START-UP OF EQUIPMENT.
- WHERE PIPES, DUCTS, ETC., ARE TO PASS THROUGH WALLS, FLOORS, ETC. SLEEVES SHALL BE PROVIDED PRIOR TO WALL CONSTRUCTION. SLEEVES SHALL BE OF EQUAL OR GREATER GAUGE METAL THAN PIPES OR DUCTS PASSING THROUGH. WHERE SLEEVES PENETRATE EXTERIOR SURFACES, VOIDS SHALL BE SEALED WATER TIGHT. WHERE SLEEVES PASS THROUGH RATED PARTITIONS, SLEEVE PACKING SHALL BE OF U.L. LISTED FIRE SAFE TYPE.
- CONTRACTOR SHALL SUBMIT THREE SETS (3) OF INSTRUCTION BOOKS, INCLUDING INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS, PAMPHLETS OR BROCHURES AND ALL EQUIPMENT WARRANTIES OBTAINED FROM EACH MANUFACTURER OF EQUIPMENT.

PART 2 PRODUCTS

1. HEATING AND COOLING EQUIPMENT

- A. NEW ROOFTOP UNITS SHALL BE YORK, TRANE, JCI, LENNOX, OR CARRIER ROOFTOP UNITS WITH ELECTRIC COOLING AND GAS HEATING.
- B. UNIT SHALL BE FACTORY ASSEMBLED, TESTED AND HAVE COMPLETE REFRIGERANT - 410A CHARGE, READY TO OPERATE. ALL TUBING JOINTS SHALL BE BRAZED. COIL SHALL BE MINIMUM OF 3-ROWS DEEP.

- C. FAN SHALL BE STATICALLY AND DYNAMICALLY BALANCED, DOUBLE INLET, FORWARD CURVED, OF DELIVERABLE OR DELIVERABLE DESIGN CFM. FAN SHALL BE QUIET IN OPERATION AND INTERNALLY VIBRATION ISOLATED.
- D. EQUIPMENT SHALL BE COMPLETELY FACTORY WIRED WITH ALL CONTROL AND PROTECTIVE DEVICES. ALL ROOFTOP EQUIPMENT 2000 CFM OR OVER SHALL HAVE SMOKE DETECTOR AND CONTROLS FOR SMOKE DETECTORS SHUTDOWN.
- E. FURNISH AND INSTALL CONDENSATE DRAIN PAN FLOAT SWITCH IN PRIMARY DRAIN PAN, DIVERSITECH MODEL CC-1 OR APPROVED EQUAL. INTERLOCK WITH DEDICATED UNIT FOR UNIT SHUTDOWN.

2. FANS

- A. FANS SHALL BE EQUAL TO THE MAKE AND MODEL(S) INDICATED AND SHALL BE LOCATED AS SHOWN ON DRAWINGS. FANS SHALL BE PENN, ACME, LOREN COOK OR GREENHECK.
- B. FANS SHALL BE FURNISHED COMPLETE WITH VIBRATION ISOLATION, PLUG TYPE DISCONNECT, NON-YELLOWING PLASTIC GRILLE, THERMAL OVER LOAD PROTECTION, AND INSULATED HOUSING.

3. ACTUATORS

- A. ACTUATOR SHALL BE 120 VOLTS, BY RUSKIN, GREENHECK, BELIMO, OR APPROVED EQUIVALENT. FOR OUTSIDE AIR DUCTS 24"x24" OR LESS ACTUATOR SHALL BE OUTSIDE THE AIRSTREAM. ACTUATOR SHALL BE SIZED TO PROVIDE ADEQUATE CLOSING TORQUE PER DAMPER MANUFACTURER'S RECOMMENDATIONS.

4. ROOF CURBS

- A. CONTRACTOR SHALL PROVIDE ALL ROOF CURBS FOR ROOF MOUNTED EQUIPMENT. PREFAB ROOF CURB ASSEMBLES SHALL BE GALVANIZED STEEL WITH WOOD NAILER STRIP. PITCHES SHALL MATCH SLOPE OF ROOF TO PROVIDE LEVEL EQUIPMENT MOUNTING.

5. DUCTWORK AND INSULATION

- A. ALL DUCTWORK SHALL BE SHEETMETAL EXCEPT AS NOTED. CONSTRUCTION STANDARDS AND RECOMMENDATIONS OF SMACNA SHALL BE FOLLOWED WITH RESPECT TO CONSTRUCTION, INSTALLATION AND SUPPORTING OF ALL DUCTWORK. ALL JOINTS LONGITUDINAL AND TRANSVERSE SEAMS SHALL BE SEALED WITH GASKETS, MASTICS (ADHESIVES), TAPES, ETC. ALL SEALANT MATERIAL SHALL BE LISTED IN ACCORDANCE WITH UL 181A OR 181B.
- B. DIMENSIONS FOR SHEETMETAL WORK ON DRAWINGS ARE INSIDE CLEAR UNLESS OTHERWISE NOTED.
- C. ALL CONCEALED SUPPLY AND RETURN DUCTS SHALL BE EXTERNALLY INSULATED WITH 2" THICK FIBERGLASS FLEXIBLE DUCT INSULATION WITH VAPOR BARRIER, MANVILLE CORPORATION, CERTAINTED OR KNAUF. INSULATION MATERIALS AND COMPONENTS SHALL HAVE MAXIMUM COMPOSITE FIRE AND SMOKE HAZARD RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED AND 50 FOR FLAME SPREAD. APPLY VAPOR BARRIER JACKET TO COMPLETELY SEAL BARRIER AND REPAIR PUNCTURES. STAPLE ALL SEAMS AND SEAL WITH REINFORCED FOIL TAPE.
- D. SUPPLY AND RETURN DUCTS LOCATED IN SPACES FREELY COMMUNICATING WITH THE OUTDOORS SHALL BE EXTERNALLY INSULATED WITH 3" THICK FIBERGLASS FLEXIBLE DUCT INSULATION.
- E. EXPOSED SUPPLY AND RETURN DUCTS WITHIN CONDITIONED SPACE SHALL HAVE 1" THICK INTERNAL INSULATION AT 1.5 LB DENSITY, GLUED AND PINNED. WHERE INTERNAL LINER AND EXTERNAL WRAP MEET, THEY SHALL OVERLAP BY MINIMUM OF 6". INSULATION SHALL BE BY MANVILLE CORPORATION, CERTAINTED OR KNAUF. PAINT PER ARCHITECT.
- F. TRUNK DUCTS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS IN BOTH SUPPLY AND RETURN.
- G. ALL ROUND DUCT SHALL BE SIZED AS SHOWN ON DRAWINGS. PROVIDE 2" THICK SLEEVE INSULATION TO PREVENT CONDENSATION. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR CONNECTION TO GRILLES AND REGISTERS IN MAXIMUM LENGTHS OF 6'-0" PER BRANCH RUN. FLEXIBLE DUCT SHALL BE CERTAINTED, WIREMOLD OR MANVILLE CORPORATION, FLEX METAL INSULATED WITH ACOUSTICAL VINYL VAPOR BARRIER, U.L. APPROVED WITH CONDUCTANCE .22 AT 75 DEGREES F. FLEXIBLE CONNECTIONS SHALL BE TESTED IN ACCORDANCE WITH UL181 AND LISTED AS CLASS 0 OR CLASS 1.
- H. ROUND PIPE TAKE-OFFS SHALL BE SPIN-IN OR AIR-TIGHT TYPE WITH DAMPERS, NO AIR SCOOPS. ALL ROUND PIPE TO BE CONNECTED WITH SHEET METAL SCREWS AND SUPPORTED WITH 1" METAL STRAP. RECTANGULAR TAKE-OFFS AND BRANCHES SHALL BE 45 DEGREE ANGLE BOOT OR TEE.
- I. RADIUSED DUCTWORK ELBOWS SHALL HAVE A CENTERLINE RADIUS OF 1.5 TIMES THE DUCT WIDTH (OR DIAMETER) UNLESS NOTED OTHERWISE.
- J. ALL MITERED ELBOWS (RECTANGULAR AND ROUND) SHALL HAVE DOUBLE THICKNESS TURNING VANES INSTALLED UNLESS NOTED OTHERWISE ON DRAWINGS.
- K. ALL DUCTWORK BRANCHES SHALL BE SUPPLIED WITH A VOLUME DAMPER FOR BALANCING. VOLUME DAMPER SHALL HAVE A 2" OFFSET TO ACCOMMODATE EXTERNAL INSULATION.

6. AIR DEVICES

- A. AIR DEVICES SHALL BE PRICE, TITUS OR METALAIR WITH FRAME TYPE SUITABLE FOR CEILING FINISH. ALL CEILING DIFFUSERS WITHIN A SPACE SHALL HAVE UNIFORM FACE DIMENSIONS UNLESS OTHERWISE NOTED.
- B. CEILING DIFFUSERS SHALL BE SQUARE LOUVER TYPE WITH OPPOSED BLADE DAMPERS, OFF WHITE FINISH, SIZES AS SHOWN ON DRAWINGS.

- C. SUPPLY AIR REGISTERS SHALL BE HORIZONTAL FACE TYPE WITH OPPOSED BLADE DAMPERS, ALUMINUM, OFF WHITE FINISH, SIZES AS SHOWN ON DRAWINGS.
- D. CEILING RETURN AIR AND EXHAUST GRILLES SHALL BE 1/2" x 1/2" EGGRATE TYPE WITH OFF-WHITE FINISH, ALUMINUM, SIZES AS SHOWN ON DRAWINGS.
- E. SIDEWALL RETURN AIR GRILLES SHALL BE HORIZONTAL FACE TYPE OF ALUMINUM CONSTRUCTION, OFF-WHITE FINISH OR AS SPECIFIED BY OWNER, SIZE AS SHOWN ON DRAWINGS.

7. GAS FIRED EQUIPMENT

- A. ALL GAS FIRED EQUIPMENT SHALL BE AGA CERTIFIED.
- B. BURNERS SHALL BE EQUIPPED WITH CONTROLS AND SAFETIES REQUIRED FOR COMPLETE AND FULLY OPERATIONAL SYSTEM. PILOT SHALL BE INTERMITTENT ELECTRIC IGNITION TYPE.
- C. HEAT EXCHANGER SHALL BE PROVIDED WITH A MINIMUM TEN (10) YEAR (PARTS ONLY) WARRANTY.

8. FLUES AND VENTS

- A. CONTRACTOR SHALL FURNISH AND INSTALL ALL FLUES AND VENTS. FLUES AND VENTS SHALL BE U.L. LISTED DOUBLE WALL TYPE WITH SIZES AS INDICATED ON DRAWINGS.
- B. CONSTRUCTION AND HEIGHT OF FLUE ABOVE ROOF SHALL CONFORM TO REQUIREMENTS OF NFPA 54 AND LOCAL CODES.

9. SLEEVES

- A. PROVIDE 18 GAGE SLEEVING AT MASONRY WALLS, ETC.
- B. SEAL ALL PENETRATIONS OF RATED PARTITIONS WITH U.L. LISTED FIRE BARRIER MATERIAL.

10. CONTROLS

- A. LOW VOLTAGE VENDOR SHALL FURNISH, ROUTE, AND INSTALL CONTROL WIRING & THERMOSTATS FOR HVAC SYSTEMS INCLUDING RADIANT HEATERS AND PACKAGED GAS UNITS. CONTROL WIRING CONNECTIONS TO BE MADE BY MECHANICAL CONTRACTOR. GC SHALL FURNISH AND INSTALL TEMPORARY THERMOSTATS.
- B. THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH FINAL LOCATIONS OF WALL-MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT. FINAL LOCATIONS MUST BE APPROVED BY THE ARCHITECT AND OWNER. THERMOSTATS SHALL NOT BE INSTALLED ON EXTERIOR WALLS IF INTERIOR WALLS ARE AVAILABLE WITHIN SPACE SERVED BY THERMOSTAT. SHOULD THE THERMOSTAT REQUIRE INSTALLATION ON AN EXTERIOR WALL AN INSULATED BACKING PLATE MUST BE PROVIDED TO PREVENT FALSE READINGS BY THE THERMOSTAT.

11. CONDENSATE PIPING

- A. CONDENSATE DRAINS SHALL BE CONSTRUCTED WITH SCHEDULE 40 PVC, CPVC PIPING, OR TYPE L HARD DRAWN COPPER. SIZE AND ROUTING INDICATED ON PLANS. COPPER DRAIN PIPE AND FITTINGS SHALL BE JOINED USING 95-5 SILVER SOLDER, PVC PIPE AND FITTINGS SHALL BE JOINED USING SOLVENT CEMENT. PROVIDE 1/2" THICK, CLOSED CELL ELASTOMERIC INSULATION, ARMAFLEX, RUBATEX OR APPROVED EQUAL, FROM UNIT CONNECTION TO DISCHARGE FOR ALL INTERIOR CONDENSATE DRAIN PIPING. PROVIDE P-TRAP WITH CLEANOUT AT EACH EQUIPMENT CONDENSATE DRAIN CONNECTION. PROVIDE POSITIVE SLOPE FOR CONDENSATE DRAIN PIPING FROM P-TRAP TO DISCHARGE, MINIMUM SLOPE 1/8" PER LINEAR HORIZONTAL FOOT. SUPPORT CONDENSATE PIPING AT 5'-0" MAXIMUM INTERVALS.

PART 3 EXECUTION

1. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURERS RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
2. CONTRACTOR SHALL TEST AND BALANCE MECHANICAL SYSTEM. CONTRACTOR SHALL PROVIDE ALTERNATE PRICE FOR 3RD PARTY AABC CERTIFIED TEST & BALANCE TO ASSURE CONFORMANCE WITH DESIGN. CONTRACTOR SHALL SUBMIT WRITTEN TEST AND BALANCE REPORT TO LOCAL CODE OFFICIALS AS REQUIRED.
3. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
4. CONTRACTOR SHALL PROGRAM ALL THERMOSTATS FOR OCCUPIED/UNOCCUPIED HOURS OF OPERATION. HOURS OF OPERATION AND TEMPERATURE SET POINTS PER OWNERS REQUEST. FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.

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Job Number: 2116

Date: 12.10.2021

Revisions:

Revisions:

Revisions:

MECHANICAL DETAILS
AND SPECIFICATIONS

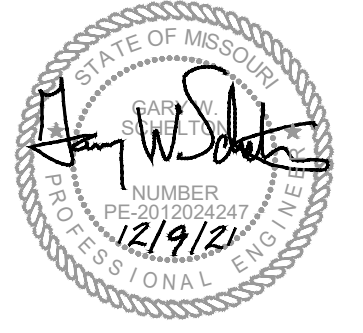
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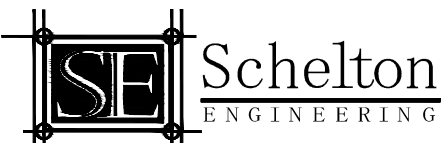
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Franklin, TN 37064
Tel: 615.730.9111 / Fax: 615.224.3599
gary@scheltonengineering.com
Project #21-008



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ARCHITECTURE

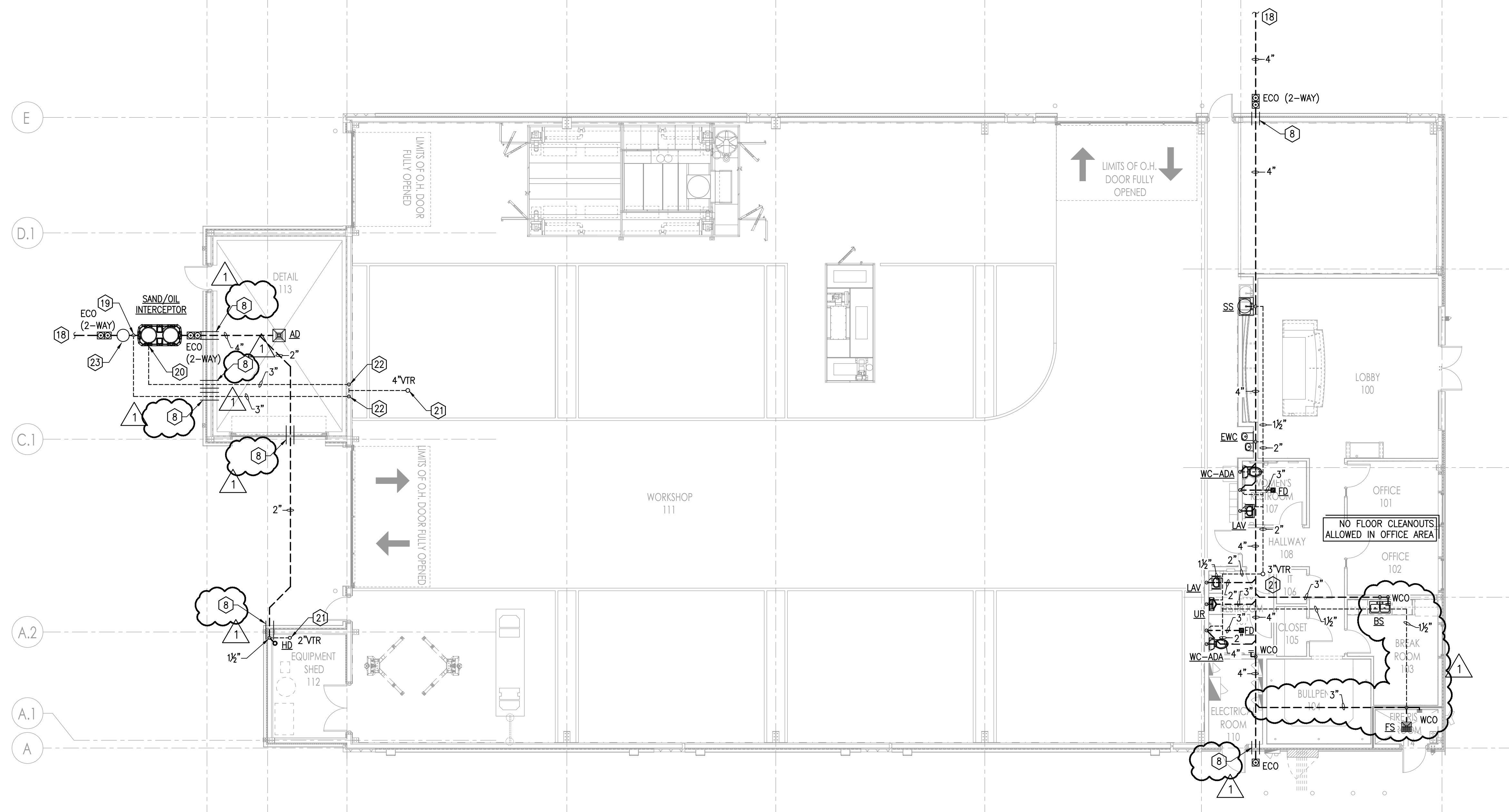
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Suite 120
Nashville, TN 37204

Architecture
Planning
Interior Architecture



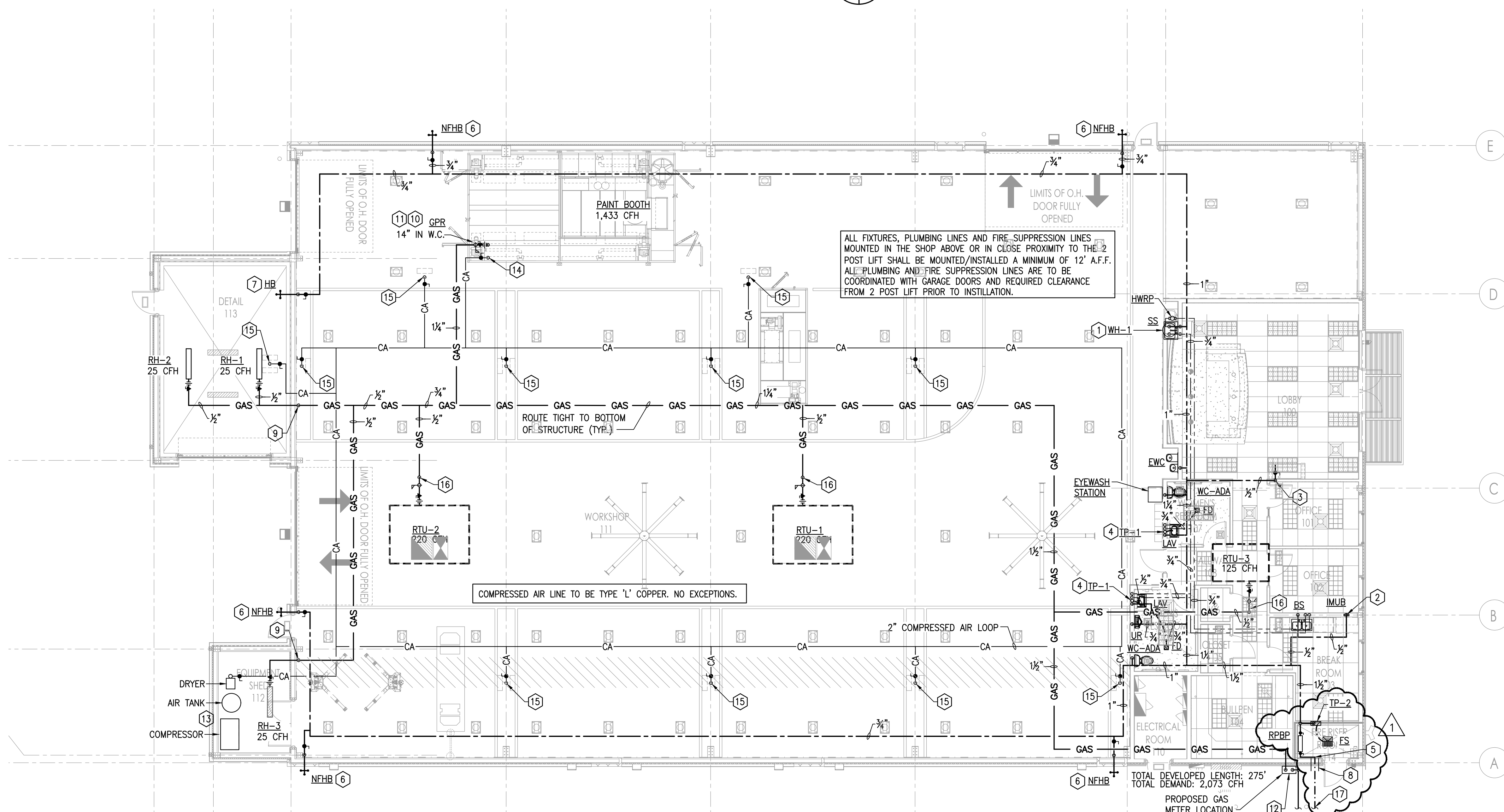
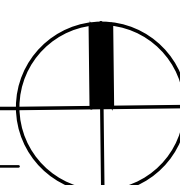
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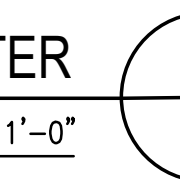
PLUMBING FLOOR PLAN - WASTE / VENT

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



PLUMBING FLOOR PLAN - WATER

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



CONSTRUCTION NOTES

- 1 WATER HEATER TO BE MOUNTED ON PLATFORM FROM ADJACENT WALL ABOVE SERVICE SINK IN LOCATION SHOWN. REFER TO DETAIL LOCATED ON SHEET P2.0.
- 2 PROVIDE NEW 1/2" CW LINE DOWN IN WALL TO GUY GRAY WATER VALVE BOX (MUR). PROVIDE BFP PRIOR TO MUR EQUAL TO ZURN 700XL-GH.
- 3 PROVIDE NEW 1/2" CW DOWN IN WALL TO SHUT OFF VALVE LOCATED UNDER COUNTER. PROVIDE BFP FROM SHUT-OFF VALVE EQUAL TO ZURN 700XL-GH. PROVIDE 1/2" TUBING FROM BFP UP THROUGH COUNTER TO CONNECTION TO APPLIANCE. FIELD LOCATE WITH EQUIPMENT.
- 4 CONTRACTOR IS TO PROVIDE GREY WATER TRAP PRIMER FROM TAIL PIECE OF LAVS TO FLOOR DRAIN. REFERENCE SHEET P2.1 FOR DETAILS.
- 5 1/2" DOMESTIC WATER LINE IN FROM CITY MAIN. TURN 1/2" DOMESTIC WATER UP FROM BELOW FLOOR WITHIN RISER ROOM TO RPPB.
- 6 3/4" DOMESTIC COLD WATER LINE DOWN TIGHT TO WALL TO NON-FREEZE HOSE BIB. CONFIRM FINAL HOSE BIB MOUNTING ELEVATION WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
- 7 3/4" DOMESTIC COLD WATER LINE DOWN TIGHT TO WALL TO HOSE BIBS. CONFIRM FINAL HOSE BIB MOUNTING ELEVATION WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
- 8 PIPING PASSING THROUGH EXTERIOR FOUNDATION WALL OR BELOW FOOTING SHALL BE PROTECTED BY A STEEL SLEEVE (2 SIZES LARGER), OR AN APPROVED RELIEVING ARCH. (TYPICAL).
- 9 GAS LINE DOWN FROM ROOF HEIGHT TO WASH BAY. CONTRACTOR TO COORDINATE ALL PIPING MOUNTING HEIGHTS WITH WASH BAY IN FIELD. CONTRACTOR SHALL CONFIRM PIPING IS ROUTED AT AN ELEVATION HIGH ENOUGH TO ENSURE VEHICLES DO NOT COLLIDE WITH PIPING.
- 10 CONTRACTOR TO ROUTE 1" GAS LINE DOWN TO PAINT BOOTH HEATER. CONTRACTOR TO PROVIDE GAS TRIM, INCLUDING BUT NOT LIMITED TO, GAS COCK, UNION & DIRT LEG. CONTRACTOR TO PROVIDE GAS REGULATOR PER MANUFACTURERS RECOMMENDATIONS. ALL REGULATORS LOCATED INDOORS ARE TO BE VENTED TO EXTERIOR OR RATED FOR INDOOR USE.
- 11 CONTRACTOR SHALL FIELD COORDINATE ALL GAS PIPING CONNECTIONS & SUPPLY PRESSURE REQUIREMENTS OF PAINT BOOTH WITH PAINT BOOTH SUPPLIER IN FIELD.
- 12 GAS LINE UP FROM BELOW GRADE TO NEW GAS METER ON BUILDING. CONTRACTOR TO SET NEW METER AND PAY ALL ASSOCIATED METER FEES. ROUTE 1/2" GAS LINE UP EXTERIOR WALL TO ROOF HEIGHT. PENETRATE WALL AND ROUTE GAS PIPING TIGHT TO BOTTOM OF STRUCTURE.
- 13 NEW AIR COMPRESSOR PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE FINAL SIZE AND REQUIRED CAPACITY WITH MANUFACTURER/DISTRIBUTOR. PLUMBING CONTRACTOR TO COORDINATE FINAL EQUIPMENT LOCATION IN EQUIPMENT YARD WITH EQUIPMENT SUPPLIER. CONTRACTOR TO PROVIDE ALL FINAL CONNECTIONS TO AIR COMPRESSORS IN FIELD.
- 14 1/2" COMPRESSED AIR LINE DOWN TO SERVE PAINT BOOTH/PREPARATION BOOTH. COORDINATE EXACT FINAL LOCATION WITH EQUIPMENT/EQUIPMENT PROVIDER IN FIELD.
- 15 3/4" COMPRESSED AIR LINE DOWN TO SERVE EACH CORD REEL. PROVIDE SHUT-OFF VALVE ON LINE TO EACH OUTLET. LOCATE SHUT-OFF VALVE ABOVE CORD REEL ON COLUMN. CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. COORDINATE FINAL LOCATION OF DROP IN FIELD WITH EQUIPMENT.
- 16 3/4" GAS PIPE UP THROUGH ROOF. REFER TO DETAIL ON SHEET P2.0 FOR INSTALLATION INSTRUCTIONS.
- 17 NEW 1/2" DOMESTIC WATER FROM CITY MAIN. REFERENCE/COORDINATE WITH CIVIL FOR CONTINUATION FROM 5' OUTSIDE OF BUILDING.
- 18 DOMESTIC SANITARY UTILITY CONNECTION LOCATION. REFERENCE CIVIL FOR CONTINUATION 5'-0" FROM BUILDING EXTERIOR.
- 19 3" VENT FROM SAMPLE WELL & SAND/OIL INTERCEPTOR FROM BELOW GRADE UP THROUGH WALL TO VTR.
- 20 OIL/SAND TRAP FINAL LOCATION IS TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO CONSTRUCTION.
- 21 CONTRACTOR TO ENSURE VENT THROUGH ROOF IS LOCATED A MINIMUM OF 10' FROM ALL FRESH AIR INTAKES.
- 22 3" VENTS UP IN WALL FROM SAND/OIL TRAP INTERCEPTOR AND SAMPLE WELL BELOW GRADE. CONTRACTOR TO TIE VENTS TOGETHER AND ROUTE VENT UP IN WALL AS A SINGLE 4" VENT. VENT TO BE ROUTED OUT FROM BUILDING EDGE TO VTR. CONTRACTOR TO PROVIDE CLEAN OUT AS REQUIRED.
- 23 PROVIDE SAMPLING WELL AND SECURING DEVICE ON SEWER LINE PER CITY SPECIFICATIONS. SECURING DEVICE SHALL BE INSTALLED WITHIN 2'-0" OF SAMPLING WELL. THE SAMPLING WELL MUST BE INSTALLED IN A LOCATION THAT WILL NOT ALLOW IT TO BE OBSTRUCTED BY TRAFFIC, VEHICLES, DUMPSTER EQUIPMENT, ETC... AT ANY TIME.

COMPRESSED AIR LINE NOTES

1. ALL COMPRESSED AIR PIPING TO BE TYPE 'L' COPPER.

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Job Number: 2116

Date: 12.10.2021

Revisions: 1 01.07.2022

Revisions:

Revisions:

PLUMBING FLOOR PLANS

Schelon
ENGINEERING
1163 West Main St.
Franklin, TN 37064
Tel: 615.730.9111 / Fax: 615.224.3899
gary@schelonengineering.com
Project #21-008

Sheet Number:

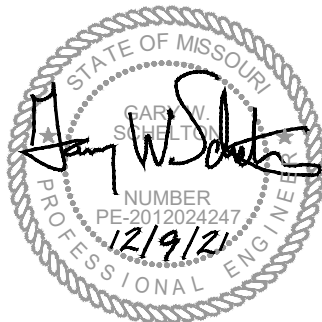
P1.0



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Suite 120
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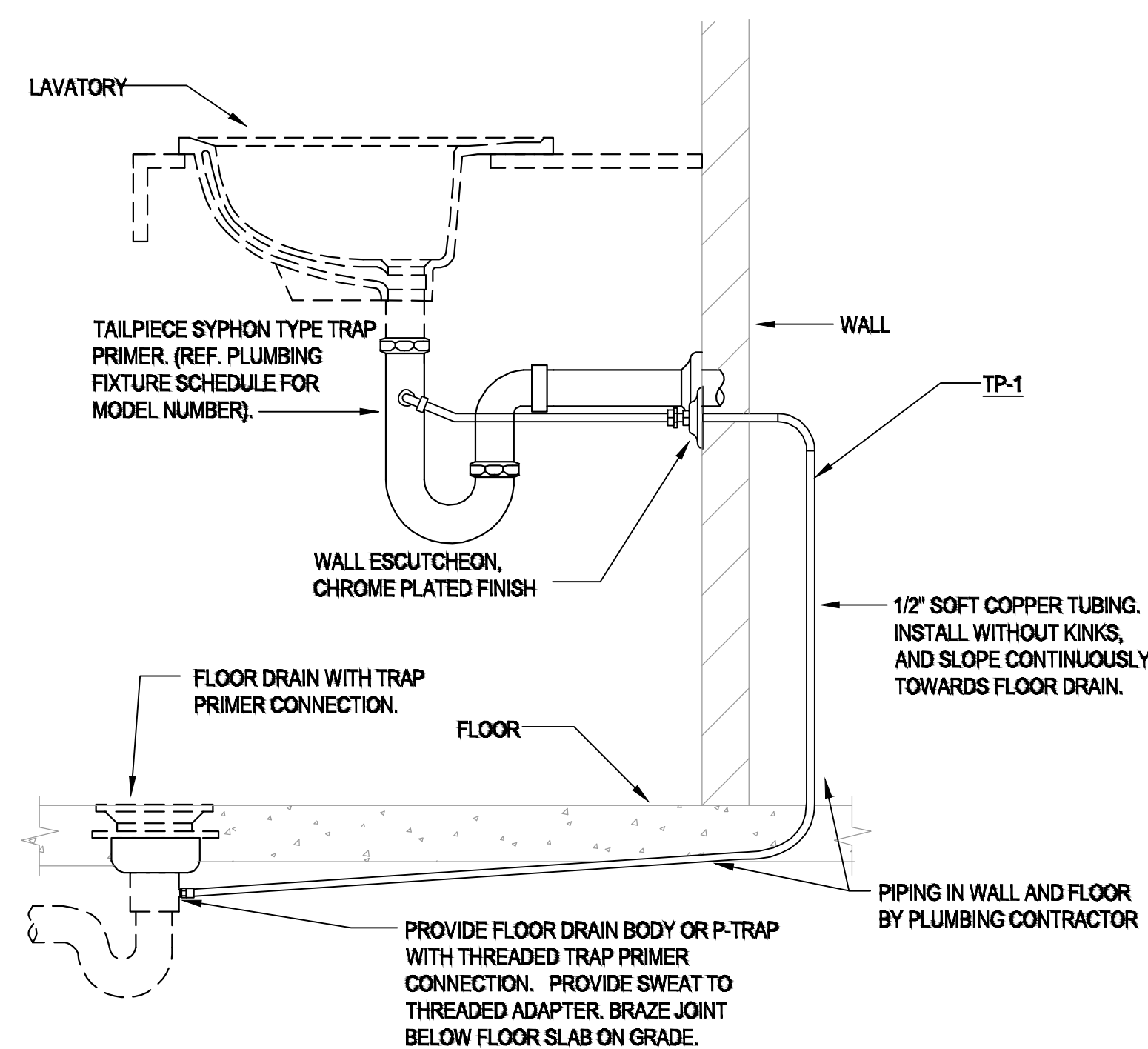
PLUMBING DETAILS

Sheet Number:

P2.1



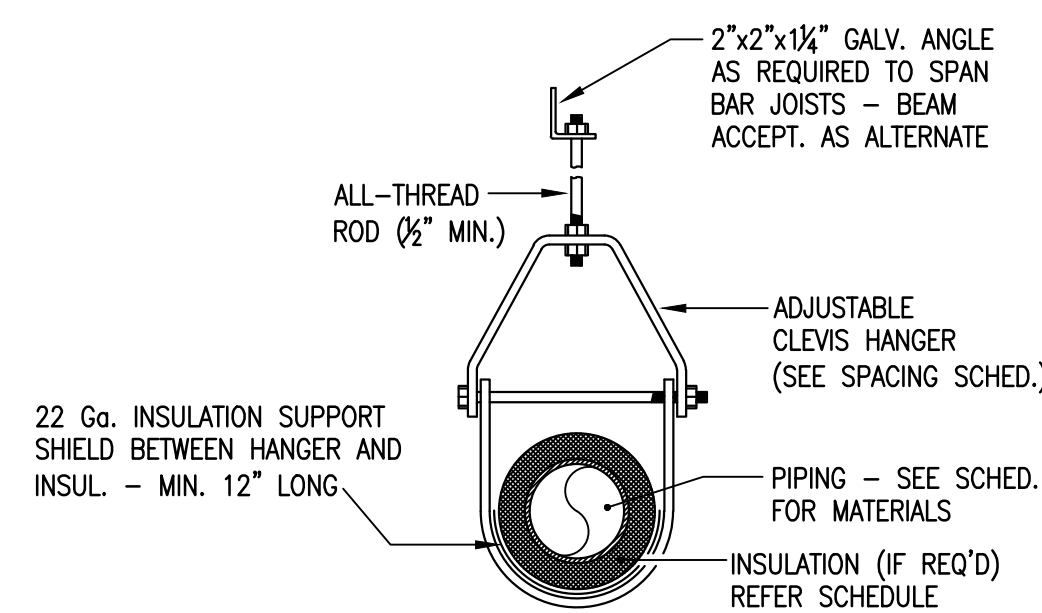
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PROVIDE TRAP PRIMERS WHERE SHOWN ON FLOOR PLANS, AND WHERE REQUIRED BY LOCAL AUTHORITIES. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO SPECIFICATIONS AND PLUMBING FIXTURE SCHEDULE FOR MORE INFORMATION. INSTALL TRAP PRIMER VALVE AND DISTRIBUTION UNIT PER MANUFACTURER'S RECOMMENDATIONS.

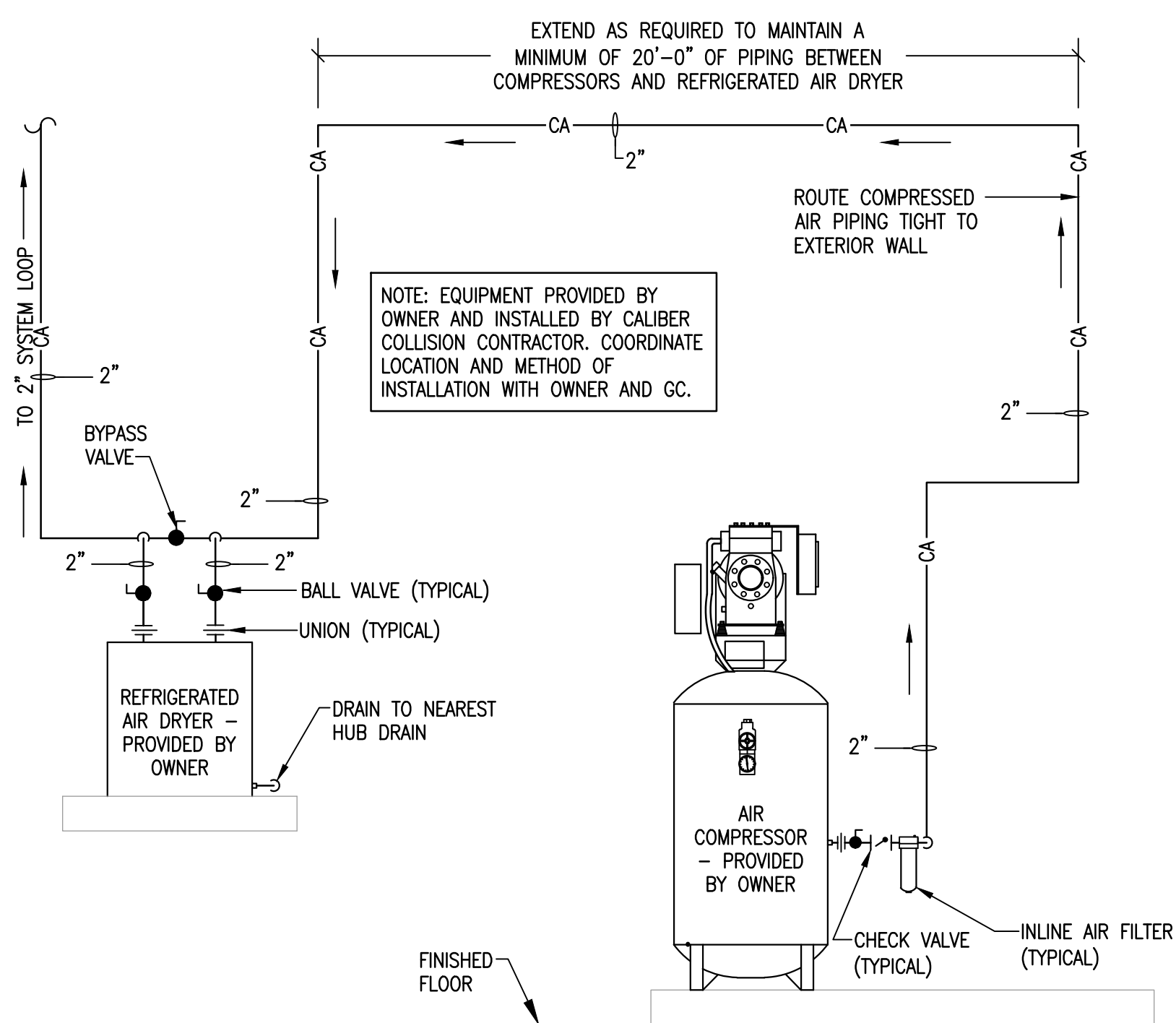
GREY-WATER TRAP PRIMER DETAIL

SCALE: NONE



INTERIOR PIPE HANGER DETAIL

SCALE: NONE



AIR COMPRESSOR INSTALLATION DETAIL

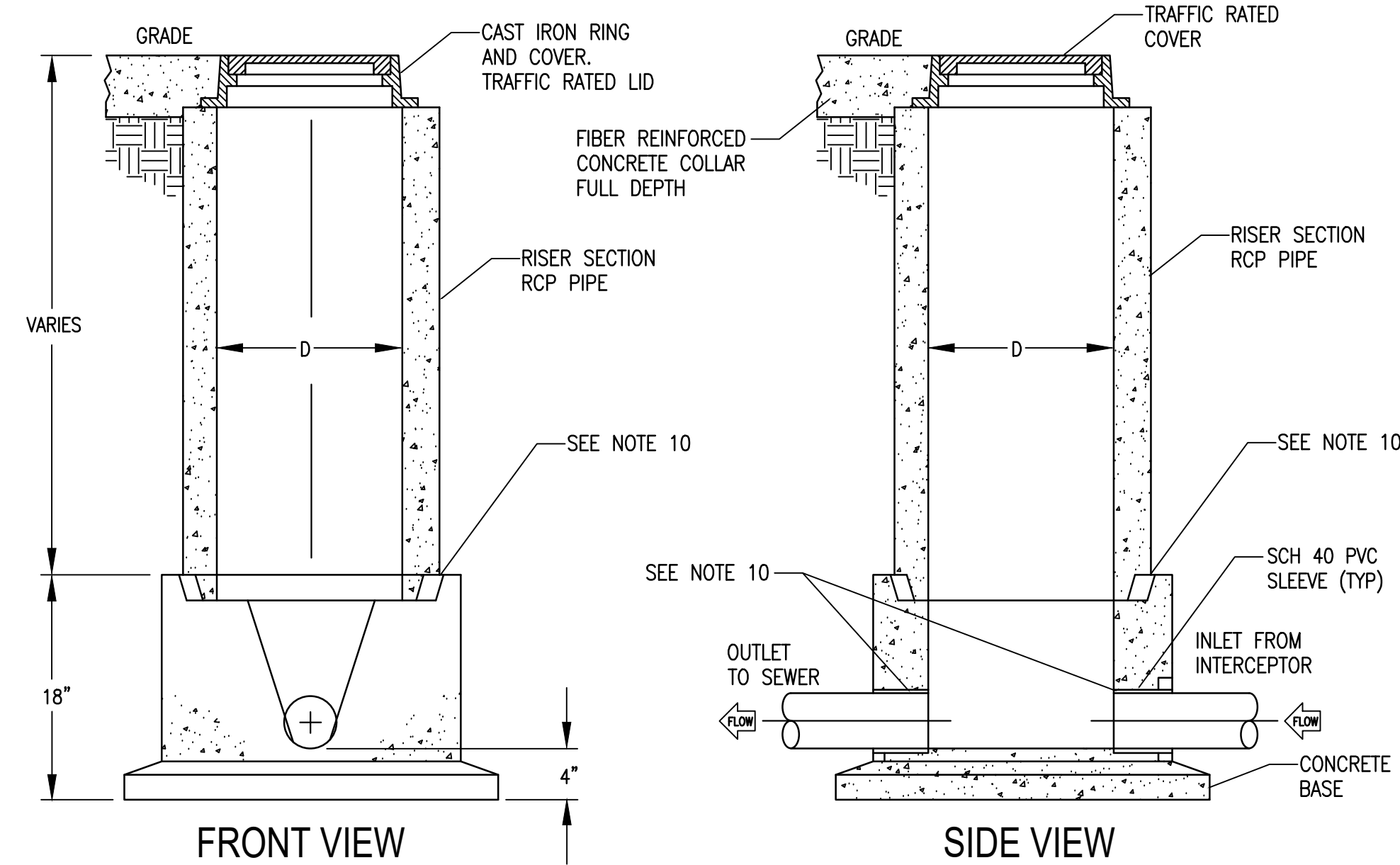
SCALE: NONE

HANGER SPACING SCHEDULE

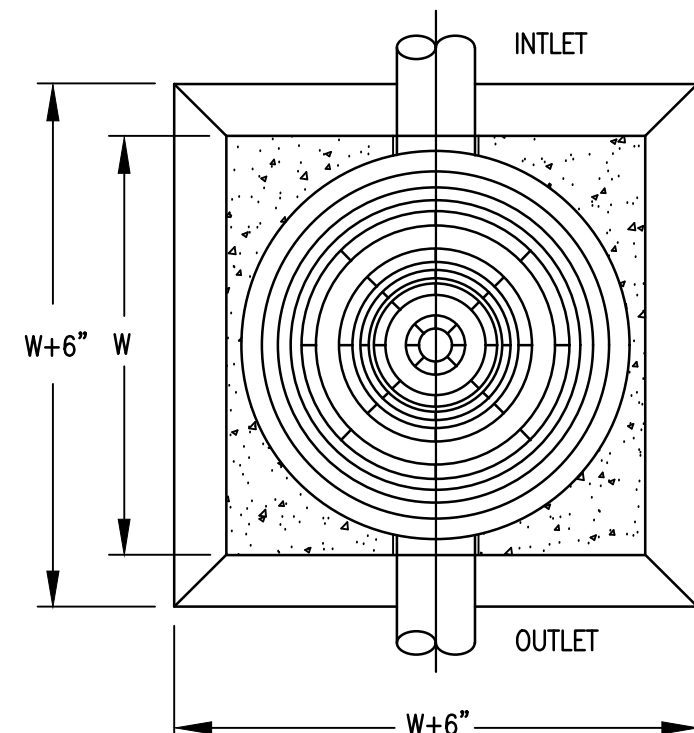
NOMINAL PIPE SIZE (IN.)	COPPER PIPE					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
MAXIMUM DISTANCE BETWEEN HANGERS	5'	6'	7'	8'	9'	10'
HANGER ROD SIZE	1/4"	1/4"	3/8"	3/8"	3/8"	1/2"

NOMINAL PIPE SIZE (IN.)	STEEL PIPE			
	1/2"	3/4"	1"	1 1/2"
MAXIMUM DISTANCE BETWEEN HANGERS	7'	9'	10'	12'
HANGER ROD SIZE	1/4"	3/8"	3/8"	1/2"

NOMINAL PIPE SIZE (IN.)	PEX PIPING			
	1/2"	3/4"	1"	1 1/2"
MAXIMUM DISTANCE BETWEEN HANGERS	32"	32"	32"	32"
HANGER ROD SIZE	1/4"	3/8"	3/8"	1/2"

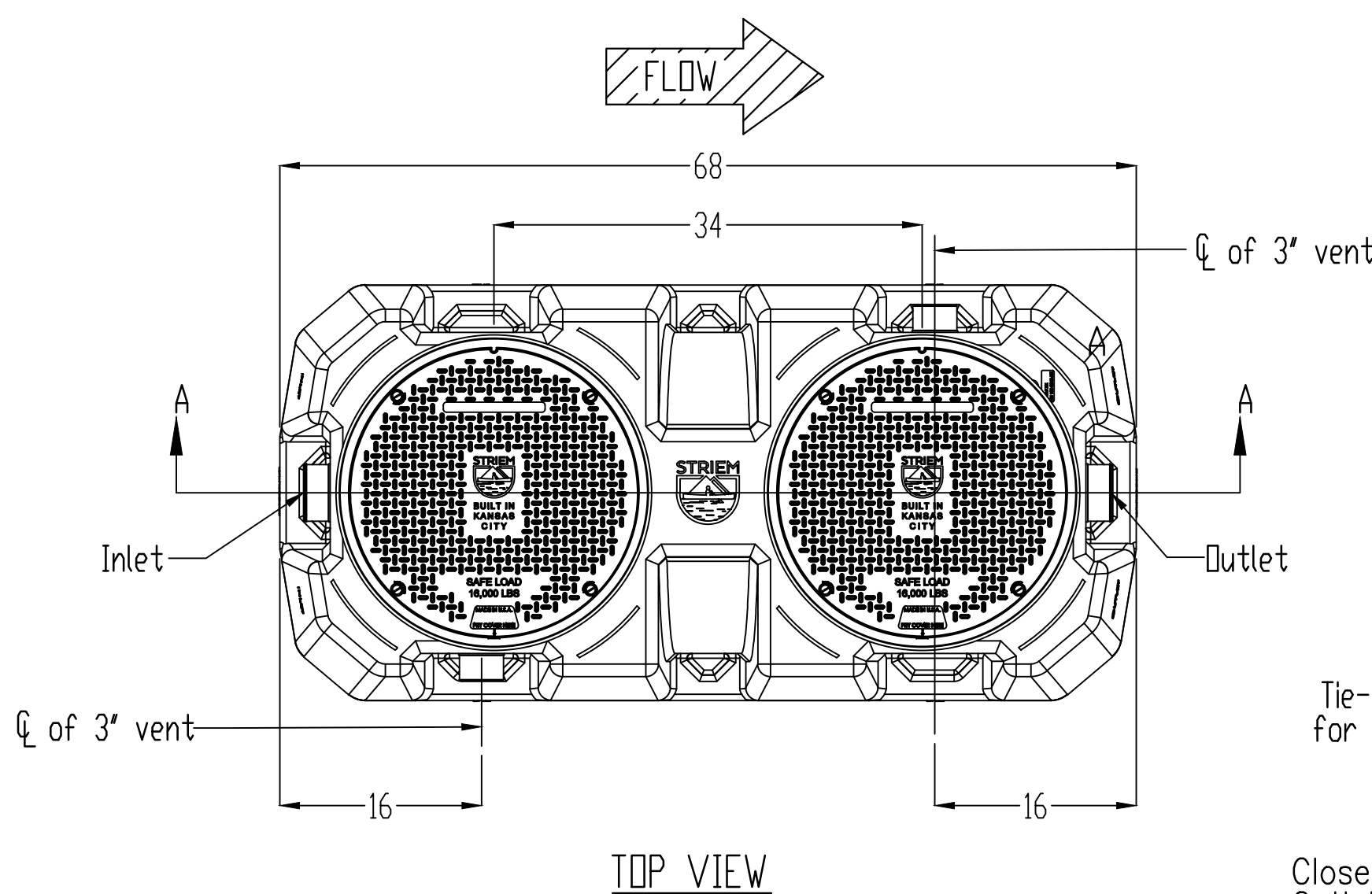


MODEL	DIAMETER IN & OUTWIDTH PIPE SIZE "D" "W"	PIPE SIZE "W"
SWB-184	18"	28"
SWB-186	18"	28"

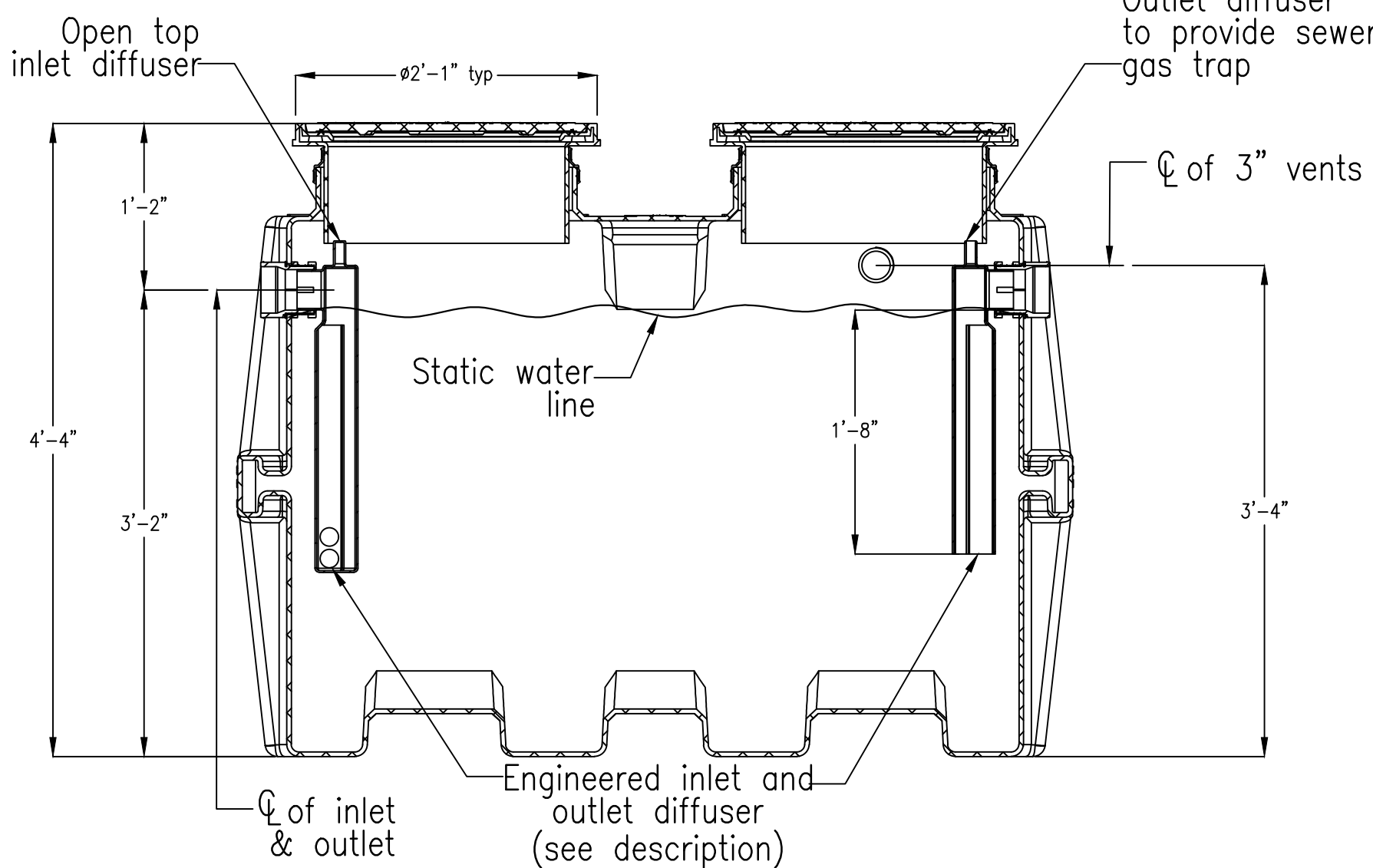


PRE-CAST SAMPLE WELL BASIN DETAIL

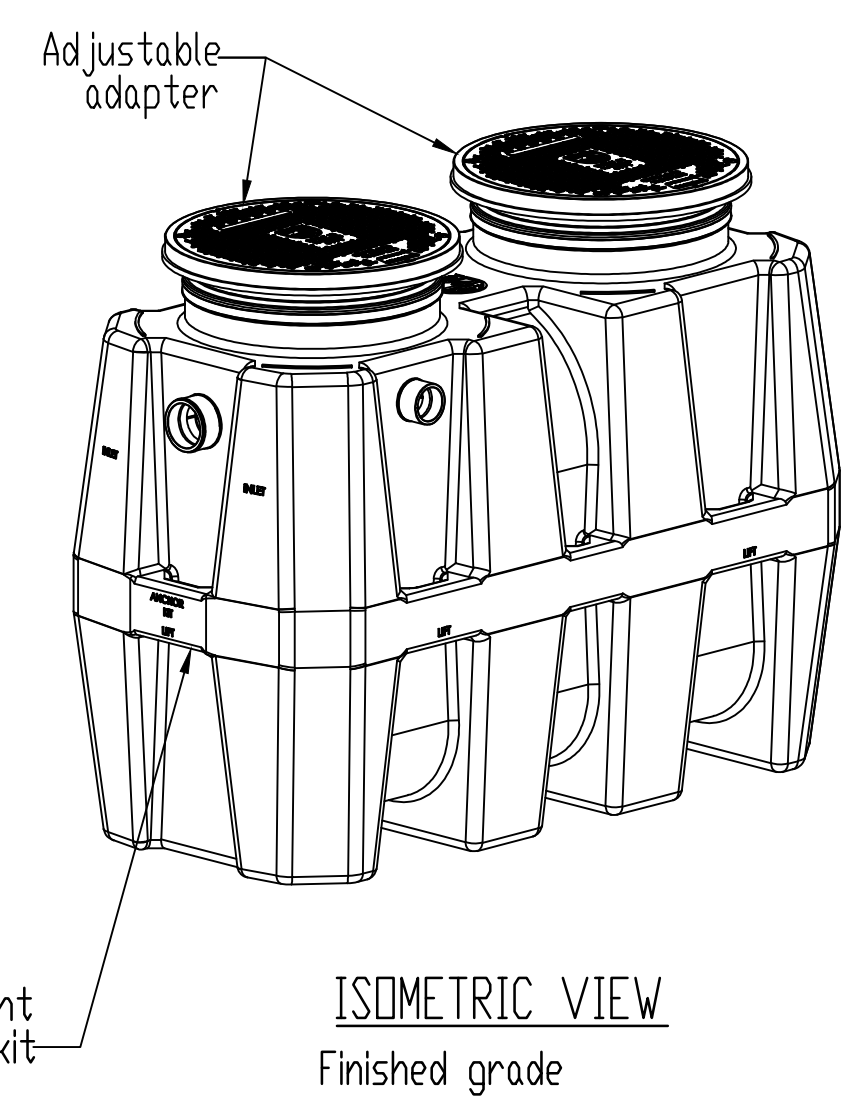
SCALE: NONE



TOP VIEW



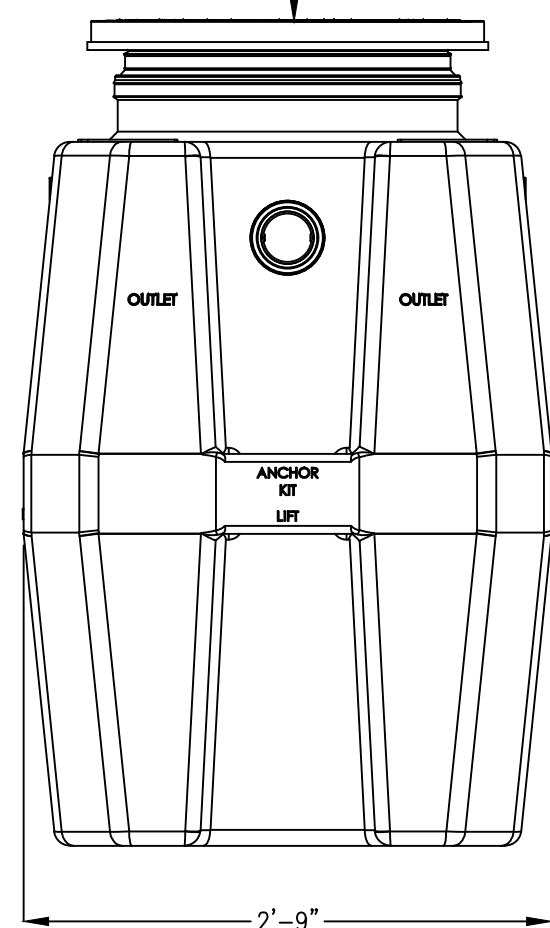
SECTION "A-A"



ISOMETRIC VIEW

Finished grade

See options to
determine available
dimension range



OUTLET END VIEW

SPECIFICATION SHEET

MODEL NUMBER:	DS-100
DESCRIPTION:	100 GPM POLYETHYLENE OIL/SAND SEPARATOR
DWG BY:	MJ
DATE:	10/02/18
REV:	0
ECD:	

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com
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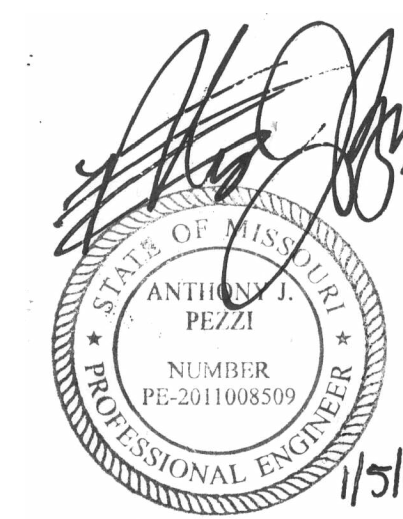




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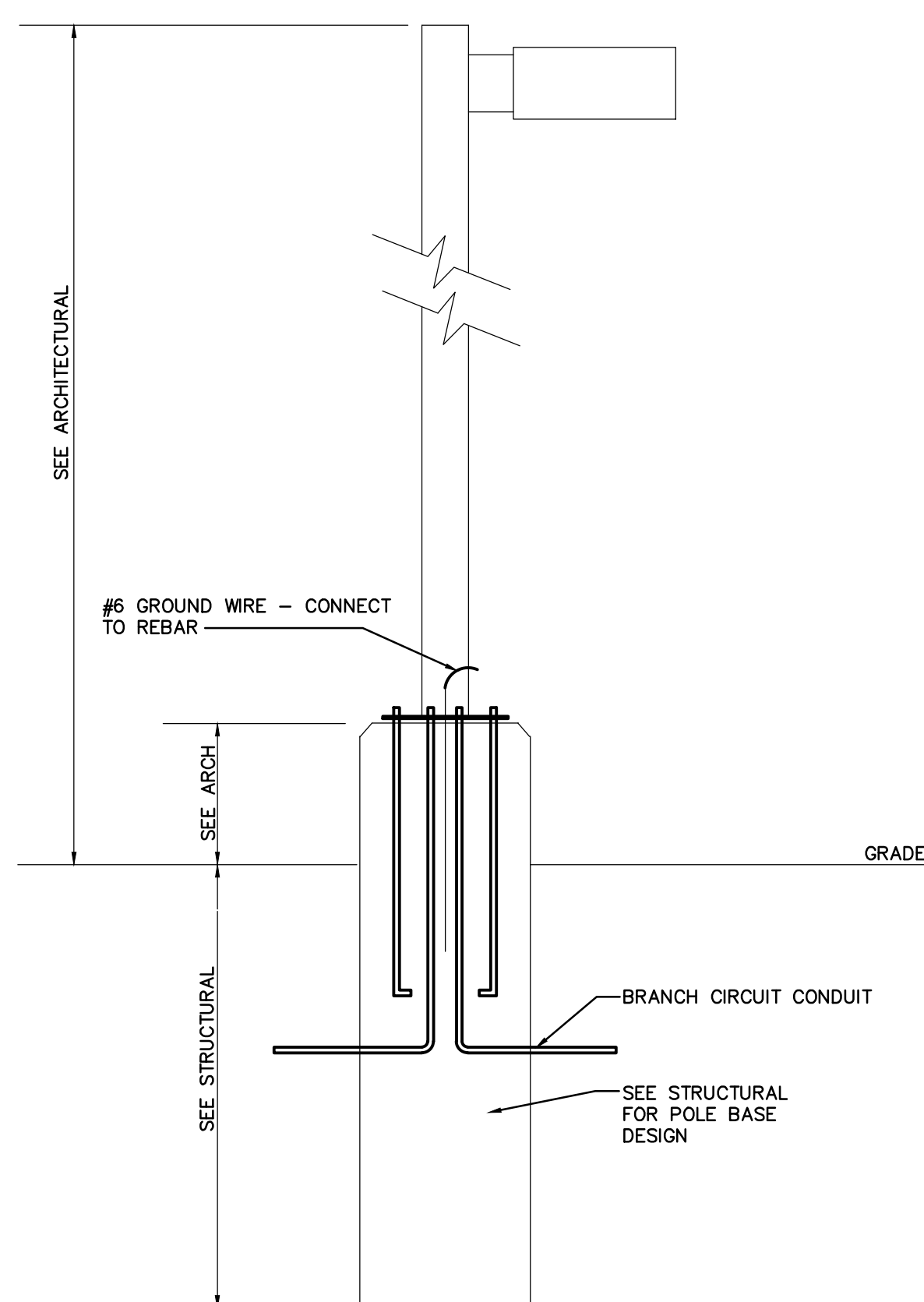
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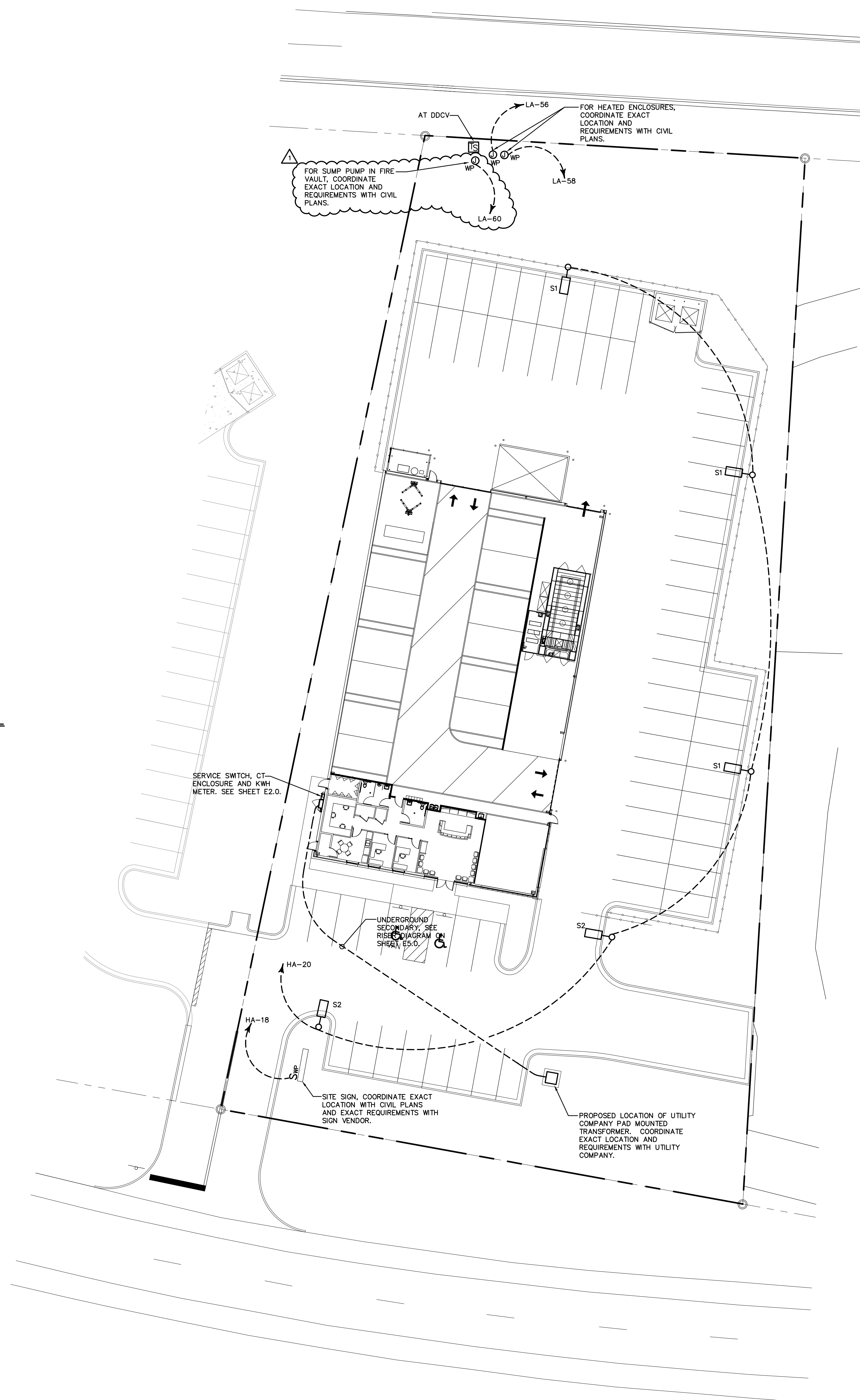


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POLE BASE/PARKING LOT LIGHT FIXTURE DETAIL
NO SCALE



SITE ELECTRICAL PLAN
SCALE: 1" = 20'-0"

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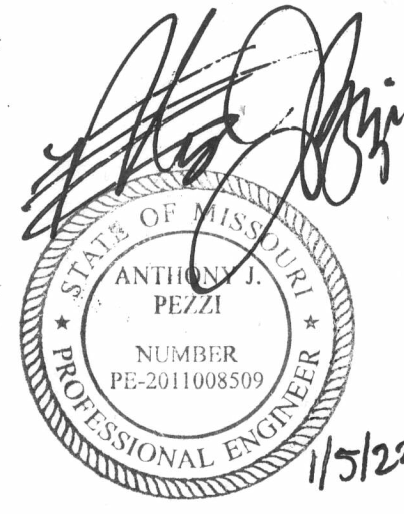
SITE ELECTRICAL PLAN
Sheet Name

ES1.00

PARSONS ENGINEERING, INC.
ELECTRICAL
COA NUMBER: F01125744
4751 TROUSDALE DRIVE, SUITE 202
NASHVILLE, TN 37220
615-386-9396
ANTHONY PEZZI, ELECTRICAL ENGINEER
LICENSE NUMBER: PE-2011008509



**PARSONS
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NASHVILLE, TENNESSEE
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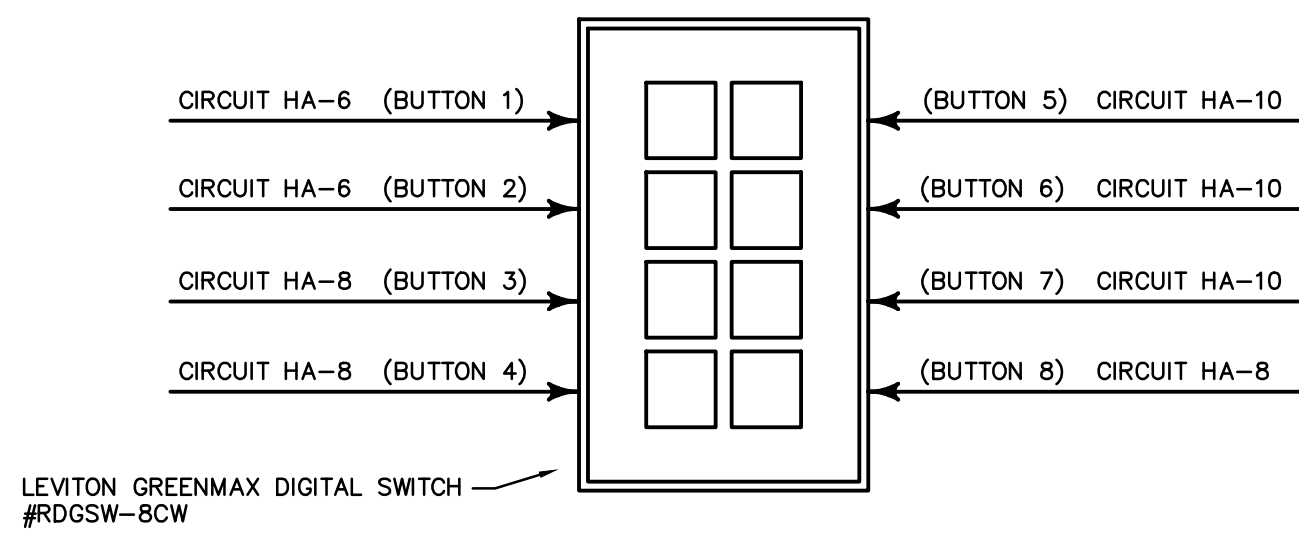
Job Number: 2116
Issue Date: 12.10.2021
Revisions: 01.07.2022
Revisions:
Revisions:
Revisions:

LIGHTING PLAN

Sheet Name

E1.00

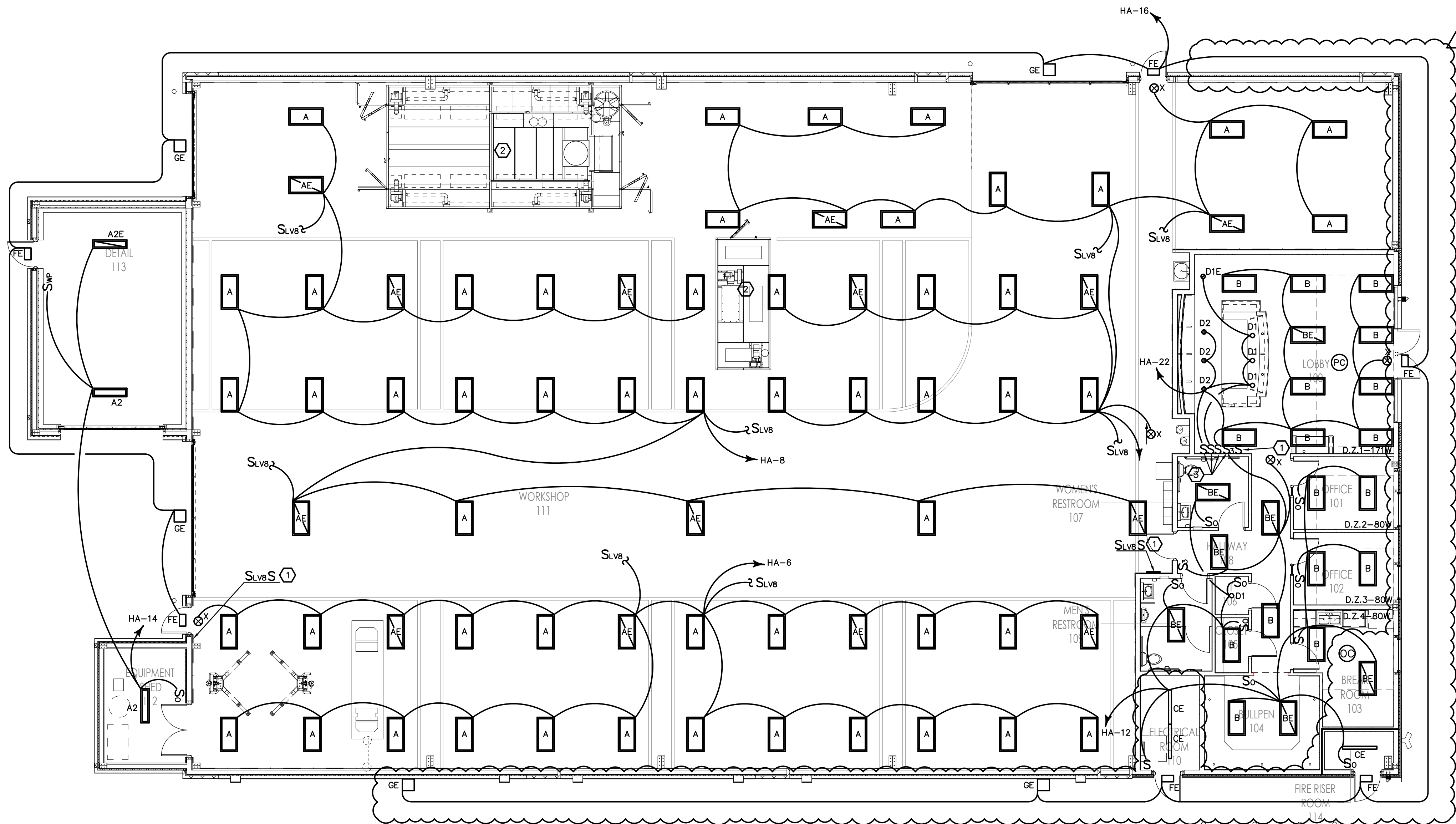
CONTRACTOR SHALL RUN ALL OVERHEAD ELECTRICAL CONDUITS ABOVE MAIN FRAMES PARALLEL WITH ROOF PURLINS PRIOR TO ROOF INSULATION. MAINTAIN A MINIMUM 1-1/2" SEPARATION FROM THE LOWEST SURFACE OF THE ROOF DECKING TO THE TOP OF THE RACEWAY, BOX, ETC. IN ACCORDANCE WITH NEC 300.4(E). SEE ARCHITECTURAL PLANS FOR RECOMMENDED CONDUIT RUN LOCATION.



8 BUTTON DIGITAL SWITCH DETAIL (SLV8)

NO SCALE

NOTE: SWITCH SHALL CONTROL CIRCUITS SHOWN VIA LIGHTING CONTROL PANEL BY LEVITON



LIGHTING PLAN

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

GENERAL LIGHTING NOTES

1. ALL CIRCUITS ARE FED FROM PANEL "H1" U.N.O. ROUTE ALL CIRCUITS THROUGH RELAY-BASED LIGHTING CONTROL PANEL FOR PHOTOCELL/TIME OF DAY CONTROL. PROVIDE LIGHTING CONTROL PANEL OVERRIDE SWITCHES PER PLAN.
2. PRIOR TO ROUGH-IN, VERIFY MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS WITH OWNER AND ARCHITECTURAL DETAILS. HEIGHT OF ALL SWITCHES, PULLS, AND CONTROLS SHALL BE ACCESSIBLE PER A.D.A., MAXIMUM 48" AFF TO TOP OF OPERATION.
3. FINISH COLOR ON ALL OUTLET AND SWITCH FACEPLATES SHALL BE WHITE. VERIFY AND COORDINATE FINAL COLOR WITH OWNER.
4. CIRCUIT ALL EXIT SIGNS "X" TO LOCAL LIGHTING CIRCUIT. CIRCUIT ALL EXIT SIGNS, EMERGENCY FIXTURES, AND UNSWITCHED NIGHT LIGHTS AHEAD OF ALL SWITCHES AND TIME CLOCKS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR ALL LIGHTING DIMENSIONS PERTAINING TO LOCATIONS, HEIGHT, MOUNTING HEIGHTS, ETC. CONTRACTOR SHALL VERIFY LIGHTING IN THE SHOP BAY AREA TO BE MOUNTED AT 12'.
6. ALL ELECTRICAL DEVICES TO BE A MINIMUM OF 36" AWAY FROM PAINT BOOTH DOORS. CONTRACTOR TO REFER TO "PAINT BOOTH SPECIFICATIONS" FOR EXACT LOCATIONS OF AREA THAT SHALL REMAIN FREE OF ANY SPARKING DEVICES. ANY ELECTRICAL DEVICES OR APPURTENANCES LOCATED WITHIN 36" OF BOOTH SHALL MEET NEC INSTALLATION REQUIREMENTS FOR CLASS 1, DIVISION 2 HAZARDOUS LOCATIONS.
7. CONTRACTOR TO INSTALL OCCUPANCY / VACANCY SENSOR SWITCH () AS SHOWN. PROVIDE ACQUITY #WSX-PDT-SA OR EQUIVALENT. COORDINATE FINISH WITH OWNER.
8. CONTRACTOR TO INSTALL OCCUPANCY / VACANCY SENSOR () AS SHOWN. PROVIDE ACQUITY #CM-PDT SERIES OR EQUIVALENT. COORDINATE FINISH WITH OWNER. PLACE OF SENSORS. PROVIDE LOW-VOLTAGE SWITCH FOR MANUAL-ON OPERATION. ACQUITY #SPDM-SA OR EQUIVALENT. BOTH ANALOG AND DIGITAL SYSTEMS ARE ACCEPTABLE. ANALOG SERIES: ACQUITY SENSOR SWITCH. DIGITAL SERIES: ACQUITY NIGHT OR EQUIVALENT.
9. CONTRACTOR TO INSTALL CEILING MOUNTED DAYLIGHT SENSOR () AS SHOWN. INSTALL ACQUITY #CM-ADC-VLP SERIES. COORDINATE FINISH WITH ARCHITECT. LOCATIONS SHOWN ARE APPROXIMATE. REFERENCE INSTALLATION MANUAL FOR OPTIMUM PLACEMENT OF SENSORS. ALL LIGHTS INDICATED IN THE DAY-LIGHT ZONE TO BE 0-10V DIMMABLE AND CONTROLLED BY PHOTOCELL IN ZONE. BOTH ANALOG AND DIGITAL SYSTEMS ARE ACCEPTABLE. ANALOG SERIES: ACQUITY SENSOR SWITCH. DIGITAL SERIES: ACQUITY NIGHT OR EQUIVALENT.
10. AT ALL LOCATIONS WHERE CEILING OCCUPANCY / VACANCY SENSORS ARE SHOWN TO BE USED IN CONJUNCTION WITH DIMMING, CONTRACTOR TO PROVIDE DIMMING POWER-PACKS AS REQUIRED WITH DIMMING ZONE OR PRESET STATIONS. MULTI-BUTTONS MAY BE USED AS INDICATED ON PLAN. BOTH ANALOG AND DIGITAL SYSTEMS ARE ACCEPTABLE. ANALOG SERIES: ACQUITY SENSOR SWITCH. DIGITAL SERIES: ACQUITY NIGHT OR EQUIVALENT.
11. D.Z.(#) = DAYLIGHT ZONE (#). ALL DAYLIGHT ZONES ARE EXEMPT DUE TO BEING LESS THAN 150 WATTS IN EACH EXCEPT FOR DAYLIGHT ZONE #1. PROVIDE DAYLIGHT HARVESTING PER IECC.
12. LOWER CASE LETTER "X" BY CIRCUIT DESIGNATION INDICATES CORRESPONDING LIGHT SWITCH.
13. ELECTRICAL CONTRACTOR TO REFERENCE ARCH PLANS FOR LIGHTING DIMENSION CONTROL PLAN FOR LIGHT LOCATIONS.
14. THE WIRING OF THE HVAC, FIRE ALARM, SECURITY, AND EMERGENCY COMMUNICATIONS AND SIGNALING SYSTEMS ARE REQUIRED THAT ALL CABLES USED FOR EMERGENCY COMMUNICATIONS HAVE A 2-HOUR FIRE-RESISTIVE RATING AND BE RATED FOR USE IN RISERS.
15. NO CONDUITS ROUTED THROUGH SHOP FLOOR UNLESS SPECIFICALLY NOTED OTHERWISE.
16. NO EXPOSED MC CABLE ALLOWED EXCEPT FOR APPROXIMATELY 6" MAXIMUM AT LIGHT FIXTURE CONNECTIONS. THERE SHALL BE NO LONG RUNS OF MC CABLE.
17. ALL CONDUITS SHALL BE INSTALLED AS TIGHT TO DECK AS POSSIBLE. MAINTAIN 1-1/2" SEPARATION FROM THE LOWEST SURFACE OF THE ROOF DECKING TO THE TOP OF THE RACEWAY, BOX, ETC. IN ACCORDANCE WITH NEC 300.4(E).
18. NOTHING IN THE SHOP AREAS SHALL BE MOUNTED BELOW 12'-0" AFF, UNLESS SPECIFICALLY NOTED AS SUCH. ALL PIPES, CONDUITS AND LINES SHALL BE RUN NEAT AND AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE. ROUTE CONDUIT WITHIN GIRTS WHEREVER POSSIBLE.
19. DO NOT DAISY CHAIN LIGHTING IN SHOP.

KEY LIGHTING NOTES

1. 2-HOUR MAXIMUM OVERRIDE SWITCH FOR LIGHTING CONTROL PANEL. CONFIRM LOCATION WITH OWNER PRIOR TO ROUGH-IN. SWITCH SHALL BE LEVITON GREENMAX #RDGSW-2CW.
2. LIGHTING UNITS IN PAINT BOOTH WILL BE PROVIDED BY MANUFACTURER.
3. SWITCH SHALL BE A 4-BUTTON DIGITAL SWITCH; LEVITON GREENMAX #RDGSW-4CW.

LIGHTING CONTROL NOTES

1. BUILDING SHALL HAVE A LIGHTING CONTROL SYSTEM CAPABLE OF TURNING OFF ALL BUILDING LIGHTS AUTOMATICALLY AFTERSHOURS.
2. AFTERSHOURS LIGHTING SYSTEM SHALL INITIATE AUTOMATIC SHUTDOWN EVERY THREE HOURS.
3. SPACES WITH INDIVIDUAL OCCUPANCY SENSORS AND AUTOMATIC SHUTOFF WILL NOT BE CONTROLLED BY LIGHTING CONTROL PANEL.
4. SPACES WITH OCCUPANCY SENSORS AND LOCAL LIGHTING CONTROL WILL BE WIRED WITH OCCUPANCY SENSOR AHEAD OF LOCAL LIGHTING CONTROL. PROVIDE ADDITIONAL RELAYS FOR SEPERATE CIRCUITS AND/OR DIFFERENT VOLTAGES.
5. LIGHTING CONTROL SYSTEM SHALL ALSO CONTROL EXTERIOR LIGHTING AND SIGN CIRCUITS.
6. PROVIDE COMMISSIONING AND FUNCTIONAL TESTING IN ACCORDANCE WITH THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE. COMMISSIONING AND TESTING TO BE PERFORMED BY MANUFACTURER REPRESENTATIVE. PROVIDE WRITTEN CERTIFICATION TO OWNER UPON COMPLETION OF COMMISSIONING. DURING TESTING THE FOLLOWING PROCEDURES SHALL BE PERFORMED.
 - A. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANCY SENSORS YIELD ACCEPTABLE PERFORMANCE.
 - B. CONFIRM THAT THE PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
 - C. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED ABOVE.

PARSONS ENGINEERING, INC.
ELECTRICAL
CDA NUMBER: F01125744
4751 TROUSDALE DRIVE, SUITE 202
NASHVILLE, TN 37220
615-386-9396
ANTHONY PEZZI, ELECTRICAL ENGINEER
LICENSE NUMBER: PE-2011098599

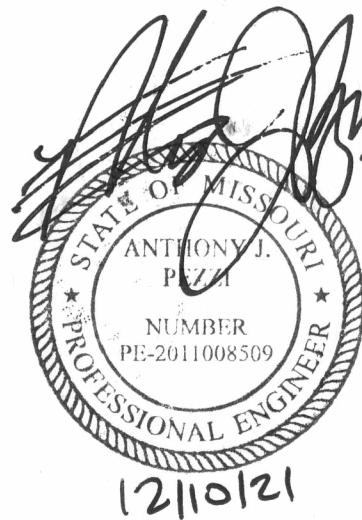
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COMcheck Software Version 4.1.5.2 Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Caliber Collision
Project Type: New Construction

Construction Site: Lees Summit, MO
Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Collision Repair (Automotive Facility)	12385	0.64	7914
Total Allowed Watts = 7914			

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Collision Repair (Automotive Facility)				
LED 1: A/AE: Hi Bay Panel: Other:	1	67	87	5829
LED 2: A2/A2E: 4' Vaporlight: Other:	1	3	56	168
LED 3: B/BE: Recessed 2x4: Other:	1	24	32	768
LED 4: CE: 4' Linear Surface Strip: Other:	1	3	21	63
LED 5: D1/D1E/D2: 6' Downlight: Other:	1	7	16	112
Total Proposed Watts =				6940

Interior Lighting PASSES: Design 12% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Caliber Collision
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COMcheck Software Version 4.1.5.2 Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Caliber Collision
Project Type: New Construction
Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site: Lees Summit, MO
Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	25987 ft2	0.04	Yes	1039
Total Tradable Watts (a) =				1039
Total Allowed Watts =				1039
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Parking area (25987 ft2): Tradable Wattage				
LED 1: S1: Pole Light: Other:	1	3	166	498
LED 2: S2: Pole Light: Other:	1	2	113	226
LED 3: FE: Wall Pack: Other:	1	4	21	84
LED 4: GE: Wall Pack: Other:	1	3	45	135
Total Tradable Proposed Watts =				943

Exterior Lighting PASSES: Design 34% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Caliber Collision
Data filename: Z:\2021\121259\121259.cck
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COMcheck Software Version 4.1.5.2 Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: Caliber Collision
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Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22] ¹	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1.1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sq ft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Automatic-on controls are allowed in corridors, stairways, restrooms, primary building entrance areas and lobbies, and areas where manual-on controls could impact safety or security.
C405.2.1.2 [EL19] ¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aiseway independently and do not control lighting beyond the aiseway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1.3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq ft, have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq ft, within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2.2, C405.2.2.2.1, C405.2.2.2 [EL21] ¹	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: Caliber Collision
Data filename: Z:\2021\121259\121259.cck
Report date: 12/03/21
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Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1, C405.2.3.2 [EL23] ¹	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3.1 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL26] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL27] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.5 [EL28] ¹	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.7 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2.1 [EL28] ²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

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Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C403.3, C408.2.5.2 [F17] ¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 [F18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [F19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.1.1 [F157] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.1 [F16] ¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F133] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

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PARSONS ENGINEERING, INC
ELECTRICAL
COA NUMBER: F01125744
4751 TROUSDALE DRIVE, SUITE 202
NASHVILLE, TN 37208
615-386-9396
ANTHONY PEZZI, ELECTRICAL ENGINEER
LICENSE NUMBER: PE-2011008509



**PARSONS
ENGINEERING, INC.**
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

Job Number: 2116
Issue Date: 12.10.2021

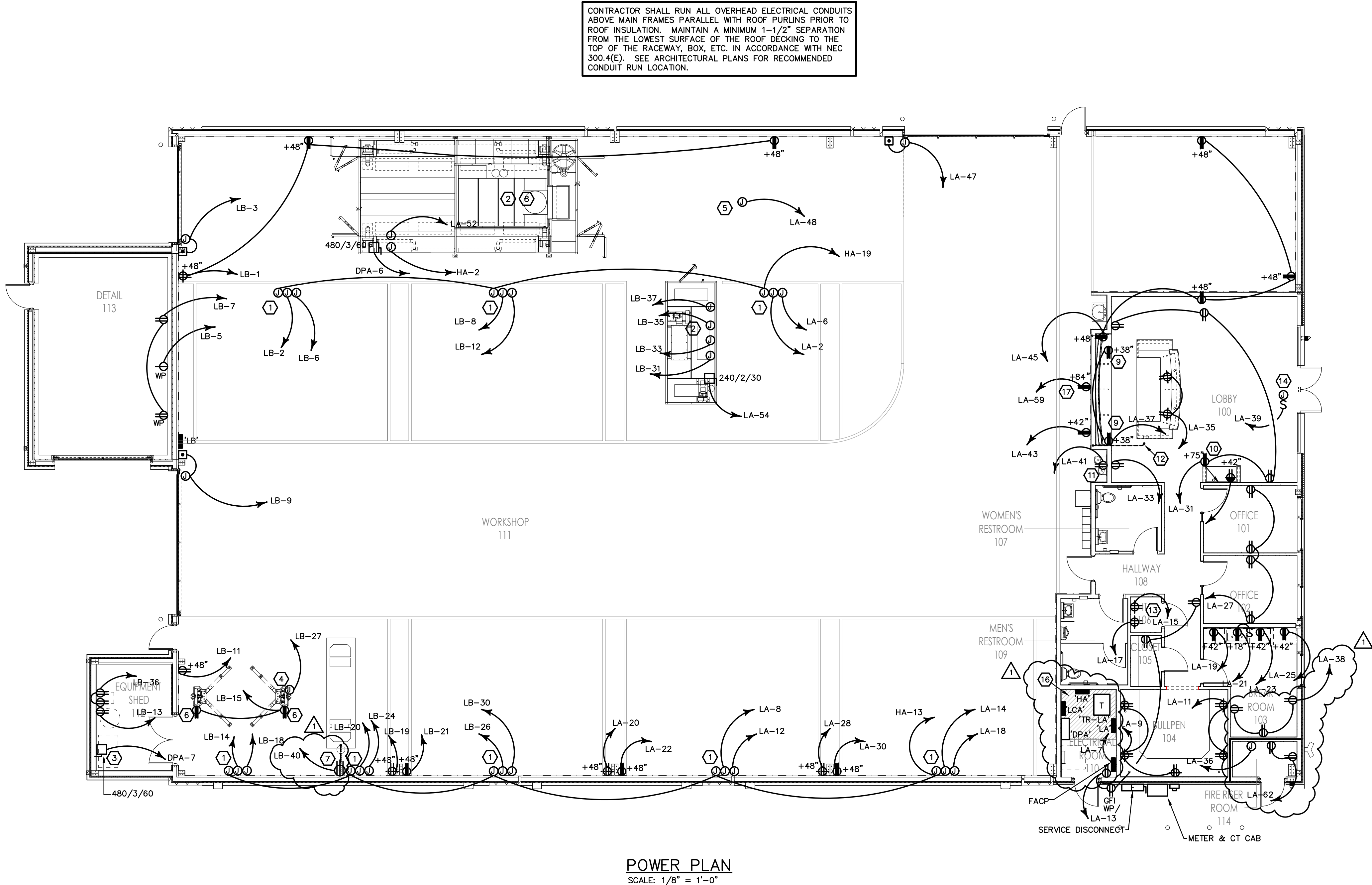
Revisions:
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Revisions:

LIGHTING ENERGY
CODE FORMS

Sheet Name

E1.10

Project: 21026 Drawing: 21026-E2-Power Plan(Rev #1).dwg



POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL POWER NOTES

1. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE FOLLOWING LOCATIONS: BATHROOMS, KITCHENS, ROOFTOPS, OUTDOORS, AND WITHIN 6 FEET OF SINKS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER NEC 210.8(B). GFI PROTECTION SHALL BE IN ACCESSIBLE LOCATION, NOT BEHIND EQUIPMENT, EITHER AT RECEPTACLE, AT CIRCUIT BREAKER OR WITH SELF-TEST BLANK FACE GFI OUTLET. ALL 120V RECEPTACLES LOCATED IN THE GARAGE AREA SHALL BE GFI RECEPTACLES. ALL EXTERIOR RECEPTACLES SHALL BE WEATHER-RESISTANT RECEPTACLES SHALL BE WEATHER-RESISTANT AND PROVIDED WITH A WEATHER PROOF "WHILE-IN-USE" COVER.
2. THE FIRE ALARM DESIGN, ENGINEERING, DESIGN APPROVAL, INSTALLATION AND FINAL ACCEPTANCE BY THE AUTHORITIES HAVING JURISDICTION IS THE SOLE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR. DEVICES AND EQUIPMENT INDICATED ON THE DRAWINGS ARE DESIGN INTENT ONLY. FINAL DEVICE TYPES, QUANTITIES AND LOCATIONS ARE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH THE FIRE ALARM CONTRACTOR AND PROVIDE ROUGH-IN AND POWER FOR ALL DEVICES PER THE APPROVED FIRE ALARM PLANS.
3. PRIOR TO ROUGH-IN, VERIFY MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS WITH OWNER AND ARCHITECTURAL DETAILS. ALL RECEPTACLES, EXCEPT FOR AUTOMOTIVE AREAS, TO BE MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED. COORDINATE EXACT HEIGHTS AND LOCATIONS WITH ARCHITECT AND REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEVICE ELEVATIONS, CASEWORK, SHOP DRAWINGS, AND EQUIPMENT INSTALLATION. REFER TO EQUIPMENT INSTALLATION DRAWINGS IF PROVIDED. COORDINATE ALL "ABOVE COUNTER" RECEPTACLE LOCATIONS. HEIGHT OF ALL SWITCHES, PULLS, AND CONTROLS SHALL BE ACCESSIBLE PER A.D.A., MAXIMUM 48" AFF TO TOP OF OPERATION.
4. CORD DROPS THROUGH SERVICE BAY AREA SHALL BE AT 7'-0" A.F.F., PROVIDE STRAIN RELIEF AND SUPPORT FOR ALL CORD DROPS.
5. CALIBER COLLISION SHALL COMPLY WITH WITH THE INTERNATIONAL FIRE CODE GROUNDING REQUIREMENTS. ANY AND ALL STATIC-PRODUCING EQUIPMENT LOCATED IN FLAMMABLE GAS STORAGE OR USED AREAS, SHALL BE GROUNDING.
6. DEVICES LOCATED IN THE AUTOMOTIVE AREAS SHALL BE MOUNTED AT 48" A.F.F. UNLESS NOTED OTHERWISE. IN ACCORDANCE WITH NEC REQUIREMENTS, ANY ELECTRICAL DEVICE OR APPURTENANCES LOCATED BETWEEN 0' TO 24" A.F.F. IN THE AUTOMOTIVE AREA SHALL MEET NEC INSTALLATION REQUIREMENTS FOR CLASS 1, DIVISION 2 HAZARDOUS LOCATIONS.
7. ALL CONNECTIONS/DEVICES SHOWN ARE FOR SPECIFIED EQUIPMENT. EQUIPMENT IS SUBMITTED AND APPROVED FROM DIFFERENT MANUFACTURER AND HAVE DIFFERENT REQUIREMENTS. COORDINATE ALL ELECTRICAL REQUIREMENTS FOR EACH PIECE OF EQUIPMENT PROVIDED AND REVISE TELEPHONE/DATA CONNECTIONS AS REQUIRED TO MATCH MANUFACTURERS RECOMMENDATION AND SPECIFICATION. ALL ADDITIONAL COST ITEMS FOR UPGRADING THE TELEPHONE/DATA COMPONENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PROVIDING SUBMITTED EQUIPMENT.
8. ALL ELECTRICAL DEVICES TO BE A MINIMUM OF 42" AWAY FROM PAINT BOOTH DOORS. REFER TO "PAINT BOOTH SPECIFICATIONS" FOR EXACT LOCATIONS OF AREAS TO REMAIN FREE OF SPARKING DEVICES.
9. ALL EXPOSED CONDUIT IN SERVICE BAY AREA SHALL BE ROUTED TO CREATE 90 DEGREE ANGLES. CONTRACTOR SHALL ROUTE ALL SERVICE BAY HOME RUNS AT STRUCTURE ABOVE THE STRIPED PAINTED WALKWAY.
10. FIRE PROTECTION VENDORS MUST USE A NON-PROPRIETARY FIRE ALARM PANEL ("HONEYWELL" OR "FIRELITE" OR "SILENT KNIGHT") TO ALLOW INTERFACE IN MONITORING BOTH THE FIRE ALARM PANEL AND SECURITY. IT IS THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO COORDINATE BETWEEN TRADES.
11. VERIFY EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN.
12. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED TO OWNER PROVIDED EQUIPMENT. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.
13. NO CONDUITS ROUTED THROUGH SHOP FLOOR UNLESS SPECIFICALLY NOTED OTHERWISE.
14. CONTRACTOR SHALL ROUTE CONDUITS OR WIRING TO THE LOCATION OF THE BOOTHS, BUT NOT INSTALL/LAND FEEDERS FOR THE BOOTHS UNTIL AFTER THE INSTALLATION OF ALL BOOTHS IS COMPLETE. CONTRACTOR SHALL COORDINATE SCHEDULE AND EXACT LOCATION OF POWER WITH BOOTH REPRESENTATIVE PRIOR TO INSTALLATION.
15. NO CUTTING PIPE OR STORAGE IN PAINT BOOTH.
16. UPSIZE INVERTER WELDER WIRE SIZE AS REQUIRED TO LIMIT VOLTAGE DROP TO 3%. FOR RUNS UP TO 150 FEET, PROVIDE #6 AWG. FOR RUNS LARGER THAN 150 FEET, PROVIDE #4 AWG.
17. MOUNT ELECTRICAL PANELS AT A MINIMUM ELEVATION OF 18" AFF IN ELECTRICAL ROOM. MOUNT PANELS AT A MINIMUM ELEVATION OF 30" AFF IN AUTOMOTIVE AREA.
18. RECEPTACLES LABELED WITH "WP" SHALL BE WEATHER-RESISTANT AND PROVIDED WITH A WEATHER PROOF "WHILE-IN-USE" COVER.
19. COORDINATION IS REQUIRED WITH TRADES FOR THE PROVISION AND INSTALLATION OF EQUIPMENT DISCONNECTS.
20. NOTHING IN THE SHOP AREAS SHALL BE MOUNTED BELOW 12'-0" AFF, UNLESS SPECIFICALLY NOTED AS SUCH. ALL PIPES, CONDUITS AND LINES SHALL BE RUN NEAT AND AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE. ROUTE CONDUIT WITHIN GIRTS WHEREVER POSSIBLE.

KEY POWER NOTES

1. (3) DUAL GANG JUNCTION BOXES MOUNTED A MINIMUM OF 18" BELOW STRUCTURE FOR 50 CORD. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION. PROVIDE (1) 120V/1P/20A GENERAL, GFI LS-20R LOCKING RECEPTACLE WITH #12 WIRE, (1) 208V/2P/50A LOCKING RECEPTACLE WITH #8, #10G, AND (1) 480/3P/40A (MINIMUM) LOCKING-WIRE STRAIGHT BLADE RECEPTACLE. COORDINATE LOCATION AND MOUNTING WITH OWNER PRIOR TO INSTALLATION. J-BOX TO BE SECURELY SUPPORTED TO STRUCTURE WITH OPENING FACING DOWN. WHEN THE TECH BAY HAS A WALL AT THE REAR END, JUNCTION BOXES SHALL BE WALL MOUNTED AT 48" AFF AND PROVIDED WITH RECEPTACLES NOTED ABOVE.
2. ALL CONDUITS AND WIRING FOR BOOTH NOT TO BE INSTALLED TO FINAL LOCATIONS UNTIL INSTALLATION OF BOOTH. COORDINATE SCHEDULE AND EXACT LOCATION OF POWER INSTALLATION WITH BOOTH REPRESENTATIVE. THE WIRING METHODS FOR THE SPRAY BOOTHS SHALL BE CLASS DIVISION 1 AND CLASS 1, DIVISION 2 PER 2017 NEC ARTICLE 516 AND 2018 IFC 2403.2.1.
3. PROVIDE 60A, 3P, NEMA 3R, DISCONNECT SWITCH FUSED AT 50A FOR COMPRESSOR.
4. CONNECTION FOR TWIN-POST RACK. PROVIDE 1A-11/16"x-18" JUNCTION BOX FOR POWER CONNECTION. CALIBER EQUIPMENT SUPPLIER TO MAKE FINAL CONNECTION. COORDINATE EXACT ROUGH-IN LOCATION WITH EQUIPMENT SUPPLIER, ARCHITECT AND OWNER.
5. PROVIDE JUNCTION BOX, MOUNTED AT BOTTOM OF STRUCTURE FOR HEAT LAMP AND ASSOCIATED SWITCH SHALL BE LOCATED IN OVERRIDE SWITCH BANK LOCATION. COORDINATE EXACT REQUIREMENTS AND ROUGH-IN LOCATION WITH OWNER.
6. PROVIDE RECEPTACLE FOR TWIN POST LIFT. ROUTE CIRCUITRY DOWN FROM STRUCTURE. COORDINATE BETWEEN TRADES.
7. PROVIDE RECEPTACLE THAT IS COMPATIBLE WITH NEMA 6-20P MALE PLUG FOR LIFT CONTROL UNIT. CIRCUIT WITH #10 WIRE. PROVIDE CONDUIT FOR POWER AND TELE/DATA CONNECTION TO FRAMER/COMPUTER. COORDINATE EXACT LOCATION WITH MANUFACTURER PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL PLANS FOR UNDER FLOOR CONDUIT FOR VENDORS HYDRAULIC LINES.
8. PRIOR TO BID COORDINATE WITH VENDOR TO CONFIRM DISCONNECTING MEANS ARE PROVIDED WITHIN CONTROL PANEL(S) FOR ELECTRICAL CONNECTIONS ASSOCIATED WITH PAINT BOOTHS/MIXING ROOM EQUIPMENT. IF DISCONNECTING MEANS ARE NOT PROVIDED, PROVIDE AS SUCH BASED ON VOLTAGE/PHASE AND AMP RATING INDICATED BY ASSOCIATED PANEL SCHEDULE CIRCUIT NUMBERS.
9. MOUNT DEVICES BELOW COUNTER. VERIFY FINAL MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
10. DEVICES TO BE MOUNTED 24" BELOW FINISH CEILING CENTERED OVER COFFEE BAR.
11. RECEPTACLE SHALL BE BELOW UNIT/EQUIPMENT CIRCUIT FROM GFI BREAKER WHERE NOT ACCESSIBLE.
12. ROUTE 3/4" POWER CONDUIT WITH ENOUGH CAPACITY TO FEED INDICATED OUTLETS AND PULL STRING UNDER SLAB FROM WALL CAVITY TO MILLWORK FOR CONNECTION OF DEVICES IN MILLWORK. VERIFY EXACT LOCATION OF DEVICES IN MILLWORK WITH OWNER, ARCHITECTURAL ELEVATIONS AND MILLWORK DRAWINGS.
13. PROVIDE QUADRAPLEX RECEPTACLE AT BOTTOM OF TELEPHONE TERMINAL BOARD. REFER TO SYSTEMS PLAN FOR TELEPHONE TERMINAL BOARD REQUIREMENTS AND ASSOCIATED CONDUIT INSTALLATION.
14. PROVIDE WP JUNCTION BOX, WP DISCONNECT SWITCH AND 120V CIRCUIT AT ACCESSIBLE LOCATION AS DIRECTED BY ARCHITECT FOR CONNECTION OF SIGNAGE. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH SIGN SUPPLIER AND LOCATION OF SIGNAGE WITH OWNER PRIOR TO ROUGH-IN.
15. RECEPTACLES TO BE SUSPENDED FROM CEILING BY 50 CORD AT 48" AFF. PROVIDE RECEPTACLES WITH STRAIN-RELIEF FITTINGS.
16. NEC REQUIRED CLEARANCE ZONE. PROVIDE SIGNAGE THIS SPACE INDICATING NO STORAGE THIS AREA.
17. PROVIDE CONNECTION AS REQUIRED FOR DIGITAL SCOREBOARD AND WIRE MANAGEMENT DOWN TO INTERFACE AS REQUIRED. COORDINATE REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

PARSONS ENGINEERING, INC.
ELECTRICAL
CDA NUMBER: F01125744
4751 TROUSDALE DRIVE, SUITE 202
NASHVILLE, TN 37220
615-386-9396
ANTHONY PEZZI, ELECTRICAL ENGINEER
LICENSE NUMBER: PE-2011008509

PE
PARSONS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

All measurements and items portrayed on this sheet are deemed to be accurate by architect, however all bidding General Contractors should field verify the actual conditions. Any changes to the scope of work, and thus potential change orders, should be identified and communicated in your price submitted to Cross Development / Caliber Collision.

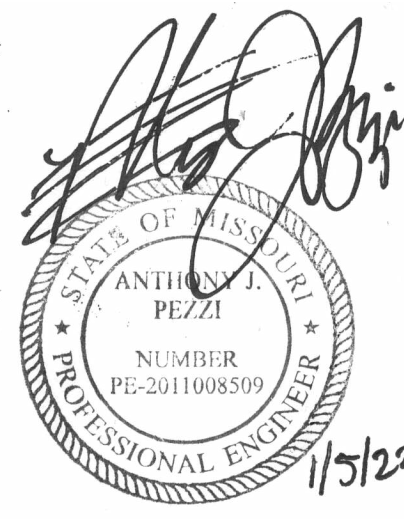
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Job Number: 2116
Issue Date: 12.10.2021
Revisions: 01.07.2022
Revisions:
Revisions:
Revisions:

POWER PLAN

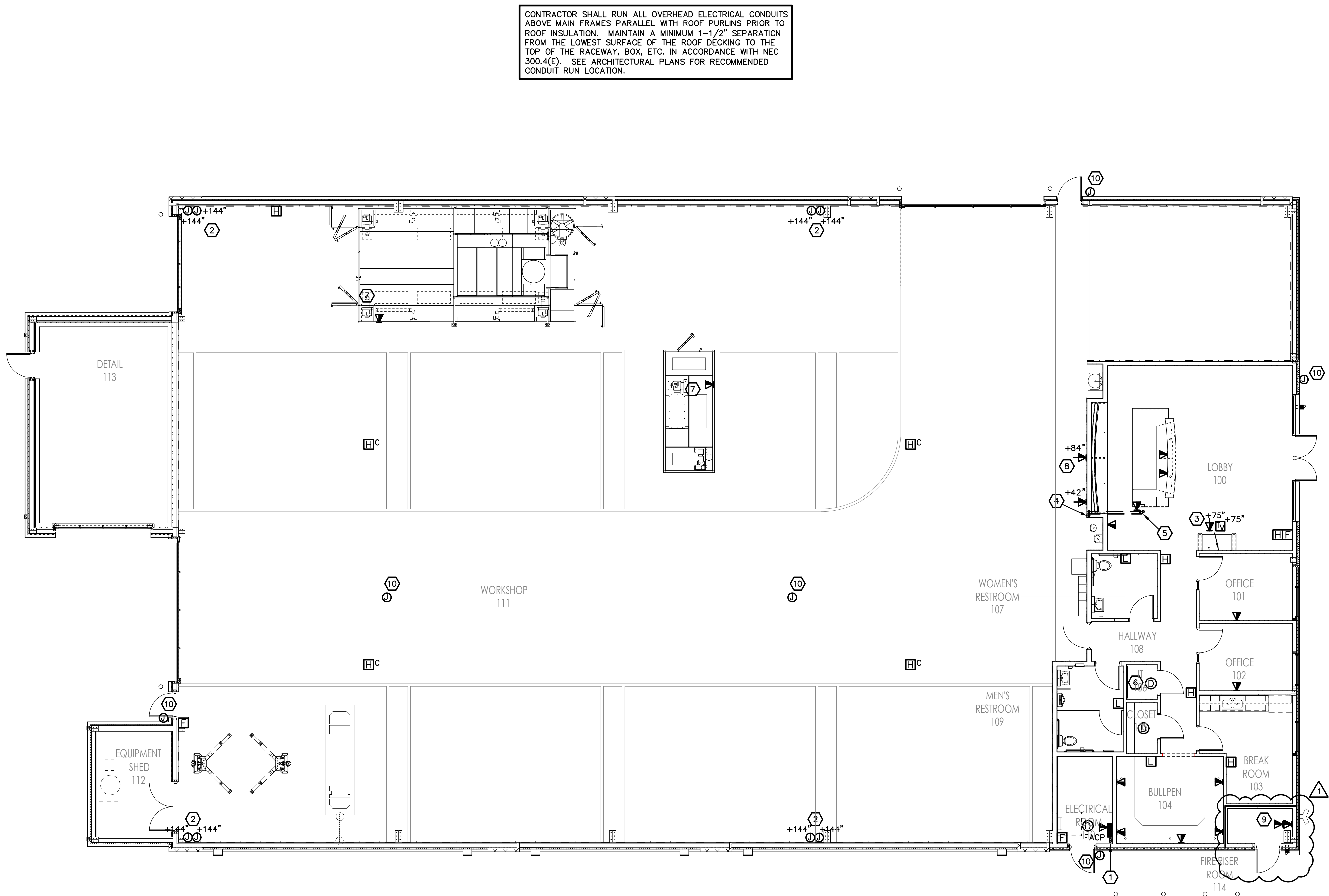
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CALIBER
COLLISION

LEES SUMMIT,
MISSOURI



SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

GENERAL SYSTEMS NOTES

1. CONTRACTOR SHALL PROVIDE ALL CONDUITS WITH PULL STRINGS AS REQUIRED TO ALL DATA DROPS. CONTRACTOR SHALL COORDINATE ALL CONDUIT RUNS WITH IT INSTALLER.
2. ALL TELEPHONE/DATA LOCATIONS, CONDUIT ROUTING, AND SIZES SHALL BE COORDINATED AND VERIFIED WITH IT MANAGER PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED, TO OWNER PROVIDED EQUIPMENT. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN AND/OR INSTALLATION.
4. ALL TELEPHONE/DATA CONNECTION LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. REFER TO ARCHITECTURAL ELEVATIONS, CASEWORK, SHOP DRAWINGS, AND EQUIPMENT INSTALLATION DRAWINGS FOR MORE INFORMATION.
5. ELECTRICAL DEVICES LOCATED IN AUTOMOTIVE AND SHOP REPAIR AREAS, SHALL NOT BE MOUNTED BELOW 30" A.F.F., IN ACCORDANCE WITH NEC REQUIREMENTS.
6. CALIBER COLLISION SHALL COMPLY WITH THE INTERNATIONAL FIRE CODE GROUNDING REQUIREMENTS. ANY AND ALL STATIC-PRODUCING EQUIPMENT LOCATED IN FLAMMABLE GAS STORAGE OR USED AREAS, SHALL BE GROUND.
7. ALL LOW VOLTAGE CABLING IN SHOP AREAS, SHALL BE COMPLETELY ENCLOSED IN CONDUIT AND ROUTED BACK TO THE IT ROOM. COORDINATE AND CONFIRM ROUTING WITH IT MANAGER PRIOR TO INSTALLATION.
8. CONTRACTOR SHALL PROVIDE LONG SWEEP RADIUS ELBOWS FOR ALL TELEPHONE/DATA CONDUIT ROUTING. 90 DEGREE ELBOWS ARE NOT TO BE USED/INSTALLED.
9. ALL CONNECTIONS/DEVICES SHOWN ARE FOR SPECIFIED EQUIPMENT. EQUIPMENT IS SUBMITTED AND APPROVED FROM DIFFERENT MANUFACTURERS AND HAVE DIFFERENT REQUIREMENTS. COORDINATE ALL ELECTRICAL REQUIREMENTS FOR EACH PIECE OF EQUIPMENT THAT'S PROVIDED AND REVISE TELEPHONE/DATA CONNECTIONS AS REQUIRED TO MATCH MANUFACTURER'S RECOMMENDATION AND SPECIFICATION. ALL ADDITIONAL COST ITEMS FOR UPGRADING THE TELEPHONE/DATA COMPONENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PROVIDING SUBMITTED EQUIPMENT.
10. ALL TELEPHONE/DATA RECEPTACLES SHALL BE MOUNTED AT 18" A.F.F., UNLESS NOTED OTHERWISE. COORDINATE EXACT HEIGHTS WITH ARCHITECT AND REFER TO ARCH DRAWINGS FOR ALL DEVICE ELEVATIONS.
11. ALL EXPOSED CONDUIT IN SERVICE BAY AREA, SHALL BE ROUTED TO CREATE 90 DEGREE ANGLES. CONTRACTOR SHALL ROUTE ALL SERVICE BAY AREA HOME RUNS ABOVE STRIPED PAINTED WALKWAY AREA, TO STRUCTURE.
12. VERIFY AND COORDINATE ALL TELEPHONE/DATA REQUIREMENTS, CONNECTIONS, EQUIPMENT, AND LOCATIONS FOR ALL BOOTHS WITH MANUFACTURER PRIOR TO ROUGH-IN. REFER TO MANUFACTURER'S OUTSHEETS AS NEEDED.
13. INTERIOR OF BUILDING SHALL HAVE APPROVED RADIO COVERAGE FOR EMERGENCY RESPONDERS BASED UPON THE COVERAGE LEVELS OF THE PUBLIC SAFETY COMMUNICATION SYSTEMS OF THE JURISDICTION AT THE EXTERIOR OF THE BUILDING. VERIFY AND COORDINATE REQUIREMENTS WITH LOCAL TOWNSHIP FIRE PREVENTION OFFICER. EMERGENCY RESPONDER RADIO COVERAGE MUST BE VERIFIED IN THE FIELD. THE RF TEST SHALL BE PERFORMED BY THE LOCAL FIRE DEPARTMENT OR AN APPROVED FCC ORL CERTIFIED TECHNICIAN AFTER INTERIOR AND EXTERIOR WALLS AND THE ROOF ARE CONSTRUCTED. IF THE BUILDING DOES NOT MEET THE REQUIRED SIGNAL STRENGTH, PROVIDE AND INSTALL AN EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM, HONEYWELL BI-DIRECTIONAL AMPLIFIER OR EQUIVALENT.
14. NOTHING IN THE SHOP AREAS SHALL BE MOUNTED BELOW 12'-0" AFF, UNLESS SPECIFICALLY NOTED AS SUCH. ALL PIPES, CONDUITS AND LINES SHALL BE RUN NEAT AND AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE. ROUTE CONDUIT WITHIN GIRTS WHEREVER POSSIBLE.

KEY SYSTEMS NOTES

1. TELECOM CONDUITS SHALL BE STUBBED UP 6" AFF AND CAPPED FOR WATER PROOFING. THE COMMUNICATIONS LINES WILL THEN BE ROUTED OVERHEAD INTO THE IT CLOSET. PROVIDE (2) 4" UNDERGROUND CONDUITS WITH PULL ROPE TO TELEPHONE ROW.
2. PROVIDE CONNECTION FOR WIRELESS SYSTEM AND SPEAKER SYSTEM. SYSTEMS BY OTHERS.
3. DEVICES TO BE MOUNTED 24" BELOW FINISH CEILING CENTERED OVER COFFEE BAR.
4. PROVIDE (1) 2" CONDUIT FOR DATA TO ACCESSIBLE CEILING. COORDINATE CONDUIT ROUTING WITH MILLWORK. COORDINATE COMMUNICATIONS WIRING, CONDUIT REQUIREMENTS AND ANY FURTHER CLARIFICATION WITH OWNER AND IT MANAGER PRIOR TO ROUGH-IN.
5. ROUTE 3/4" TELE/DATA CONDUIT WITH ENOUGH CAPACITY TO FEED INDICATED OUTLETS AND PULL STRING UNDER SLAB FROM WALL CAVITY TO MILLWORK FOR CONNECTION OF DEVICES IN MILLWORK. VERIFY EXACT LOCATION OF DEVICES IN MILLWORK WITH OWNER, ARCHITECTURAL ELEVATIONS AND MILLWORK DRAWINGS.
6. 48"x96"x3/4" UNPAINTED FIRE CODE PLYWOOD TELE/DATA BOARD. FURNISH AND INSTALL GROUNDING TERMINAL STRIP ON BACKBOARD (SQUARE D #PK18GTA OR EQUAL). PROVIDE #6 COPPER GROUNDING CONDUCTOR IN 1/2" CONDUIT FROM BACKBOARD TERMINAL TO ELECTRICAL SERVICE GROUNDING ELECTRODE AND 10" INDEPENDENT GROUND ROD. PROVIDE QUADRAPLEX RECEPTACLE AT BOTTOM OF BACKBOARD. PROVIDE (2) 4" VERTICAL CONDUITS AT CEILING FOR PATHWAY OF TELEPHONE/DATA WIRES. PROVIDE A COMPLETE & OPERATING PHONE/DATA SERVICE. CONFIRM AND COORDINATE WITH LOCAL TELEPHONE COMPANY. REFER TO ARCHITECT FOR TELEPHONE BOARD INFORMATION PRIOR TO ROUGH-IN.
7. ALL CONDUITS AND WIRING FOR BOOTH NOT TO BE INSTALLED TO FINAL LOCATIONS UNTIL INSTALLATION OF BOOTH. COORDINATE SCHEDULE AND EXACT LOCATION OF POWER WITH INSTALLATION WITH BOOTH REPRESENTATIVE. THE WIRING METHODS FOR THE SPRAY BOOTHS SHALL BE CLASS 1, DIVISION 1 AND CLASS 1, DIVISION 2 PER 2017 NEC ARTICLE 516 AND 2018 IFC 2403.2.1.
8. PROVIDE CONNECTION AS REQUIRED FOR DIGITAL SCOREBOARD AND WIRE MANAGEMENT DOWN TO INTERFACE AS REQUIRED. COORDINATE REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
9. PROVIDE 2" C THROUGH ROOF WITH GOOSENECK FOR SATELLITE AND CELL REPEATER. COORDINATE EXACT LOCATION WITH OWNER. SEE DETAIL ON SHEET E5.0.
10. PROVIDE CONNECTION AS REQUIRED FOR WIFI POINT THIS LOCATION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. EXTERIOR LOCATIONS INDICATED NOT TO BE INSTALLED IF THEY ARE CLOSER THAN 10' TO THE PROPERTY LINE.


PARSONS ENGINEERING, INC.
ELECTRICAL
CDA NUMBER: F81125744
4751 TROUSDALE DRIVE, SUITE 202
NASHVILLE, TN 37220
615-386-9396
ANTHONY PEZZI, ELECTRICAL ENGINEER
LICENSE NUMBER: PE-2011008509



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ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

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Job Number: 2116
Issue Date: 12.10.2021
Revisions: 01.07.2022
Revisions:  01.07.2022
Revisions:
Revisions:
Revisions:

SYSTEMS PLAN Sheet Name

E2.10



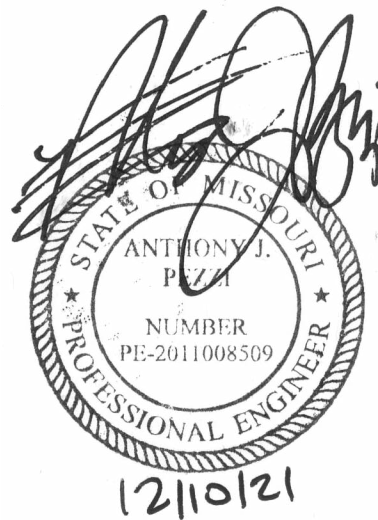
E3.00



OXFORD
ARCHITECTURE

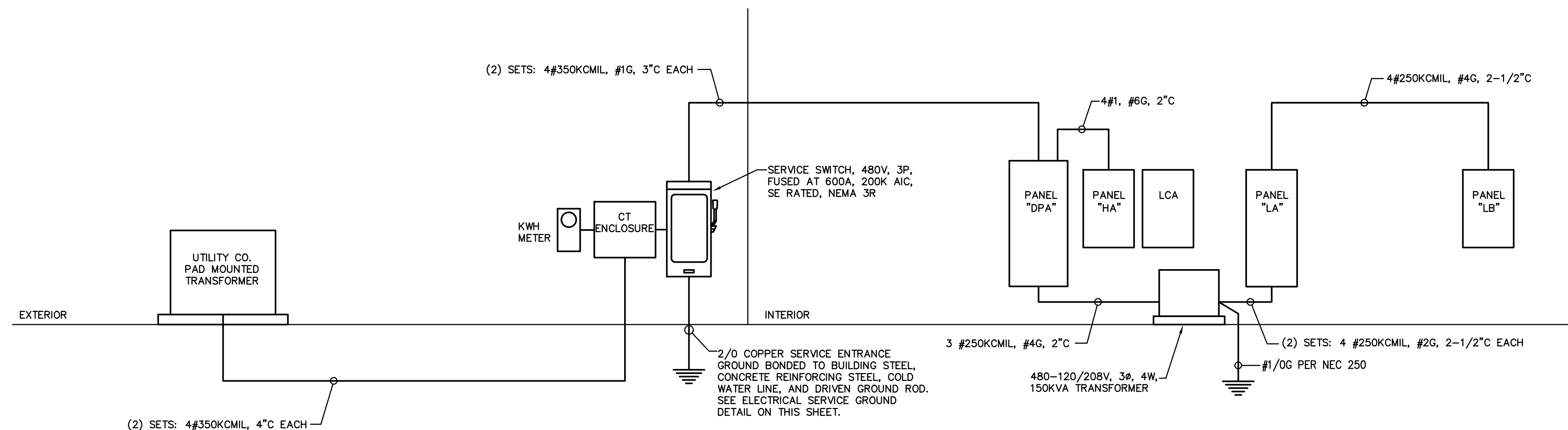
2934 Sisko Drive
Suite 120
Nashville, TN 37204

Architecture
Planning
Interior Architecture



**CALIBER
COLLISION**

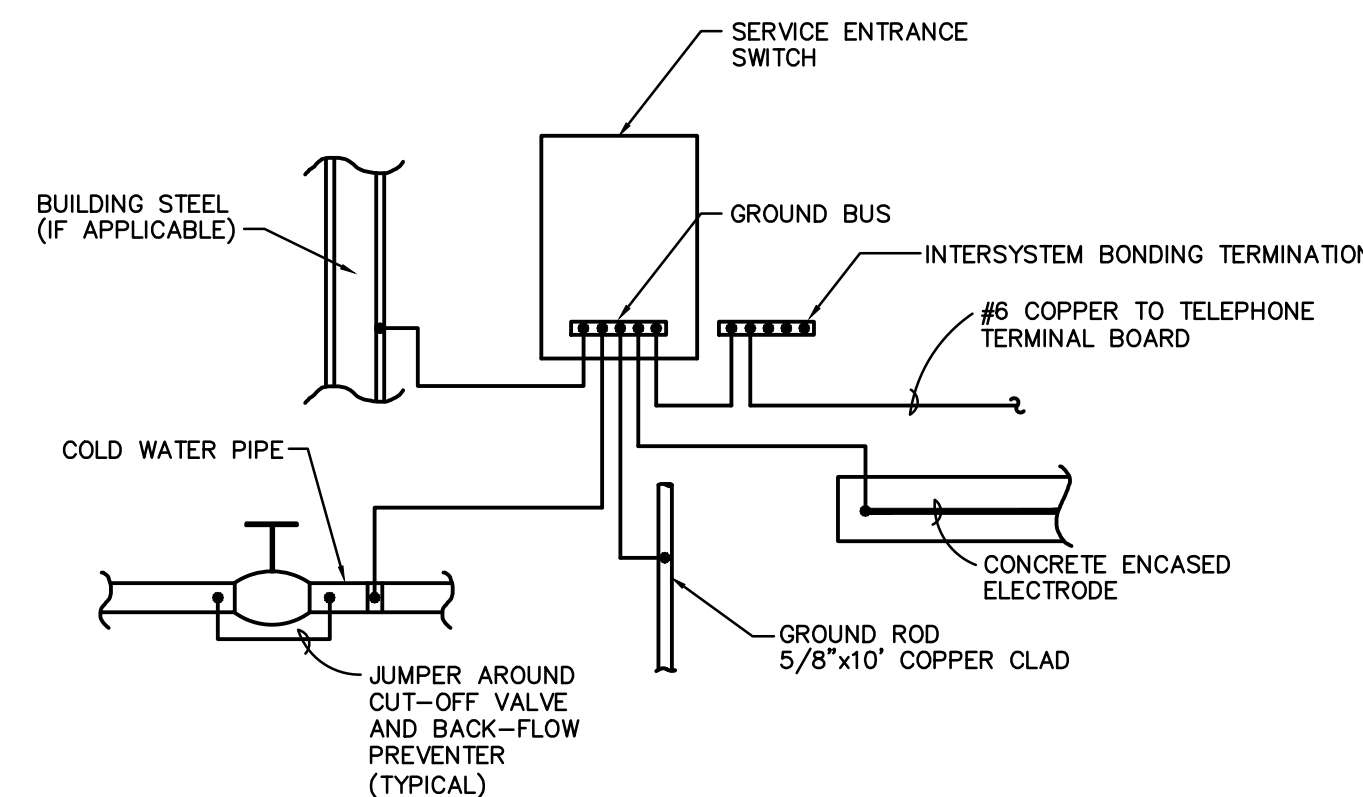
LEES SUMMIT,
MISSOURI



POWER RISER DIAGRAM
NO SCALE

CONTRACTOR SHALL PROVIDE A PERMANENTLY AFFIXED LABEL TO ALL PANELS INDICATING MAXIMUM AVAILABLE FAULT CURRENT AND DATE THAT FAULT CURRENT CALCULATION WAS PERFORMED PER NEC 110.24.
SIZE FEEDERS TO LIMIT MAXIMUM VOLTAGE DROP TO 3%.

PROVIDE COMPLETE ELECTRIC SERVICE. COORDINATE ELECTRICAL INSTALLATION WITH THE UTILITY COMPANY. COORDINATE EXACT TRANSFORMER LOCATION AND REQUIREMENTS WITH THE UTILITY COMPANY. PAY ALL FEES.



ELECTRICAL SERVICE GROUND
NO SCALE

NOTE: ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED PER NEC 250.66.

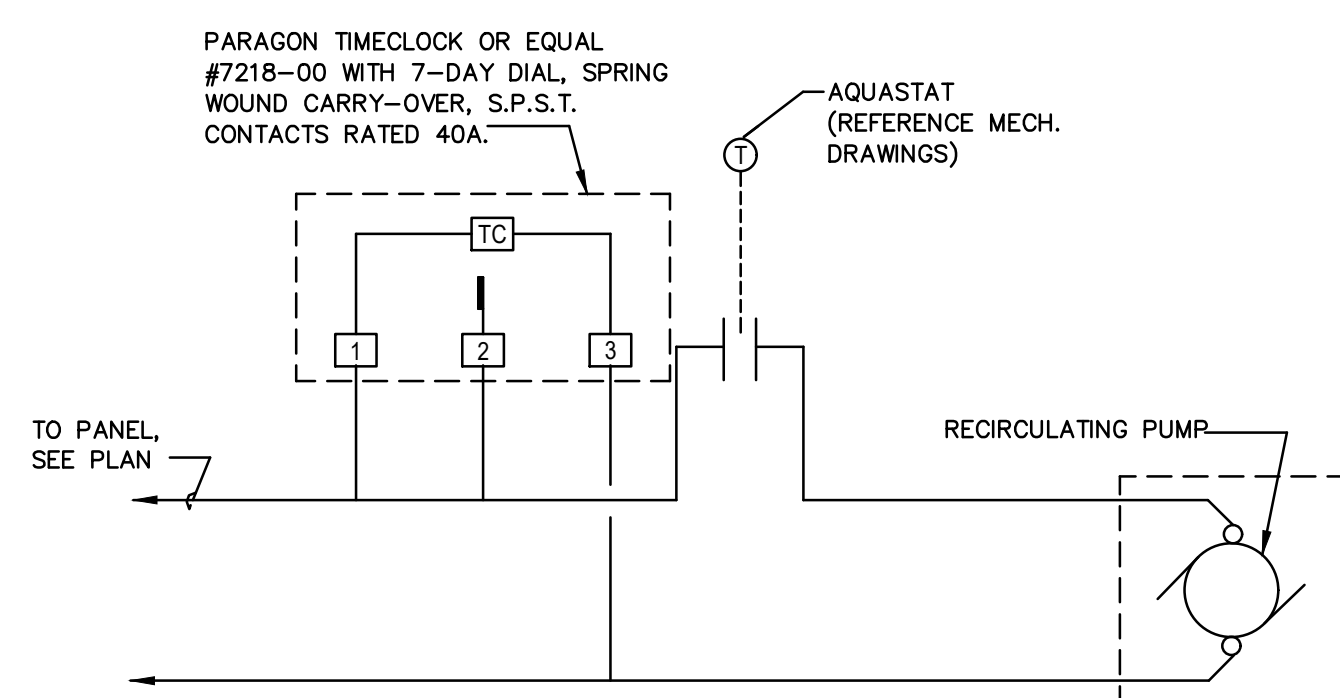
LIGHTING FIXTURE SCHEDULE					
TYPE MARK	VOLTAGE	WATTS	MODEL #	MANUFACTURER	COMMENTS
A	120/277	87	PDR-VHLED-LD1-12-W-UNV-L950-CD 1-90CRI	METALUX	LED HIGH BAY
AE	120/277	87	PDR-VHLED-LD1-12-W-UNV-L950-CD 1-90CRI-EL20W	METALUX	EMERGENCY LED HIGH BAY
A2	120/277	56	4VT2-LD5-8-DR-W-UNV-L840-CD1-W L-U	METALUX	EXTERIOR - INDUSTRIAL LED HI-BAY
A2E	120/277	56	4VT2-LD5-8-DR-W-UNV-L840-CD1-W L-U-EL10W	METALUX	EXTERIOR - INDUSTRIAL LED HI-BAY W/ 90MINUTE BATTERY
B	120/277	32	74248 SYL PANELF1A/032UNV0840/24G/WH	SYLVANIA	2X4 LED FLAT PANEL - 4000K - FROSTED LENS
BE	120/277	32	74240 SYL PANELF1A/032UNV0840/24G/WH/E	SYLVANIA	2X4 LED FLAT PANEL - 4000K - FROSTED LENS WITH 90 MINUTE BATTERY PACK
CE	120/277	21	4SNLED-LD5-44SL-LW-UNV-L840-CD1-U-EL7W	METALUX	4" UTILITY LED STRIP WITH 90 MIN BATTERY PACK.
D1	120/277	15.5	LD6 B15 D010 / EU6B10208040 / 6LBM2LI	PORTFOLIO	6" LED DOWNLIGHT
D1E	120/277	15.5	LD6 B15 D010 EM14 / EU6B10208040 / 6LBM2LI	PORTFOLIO	EMERGENCY 6" LED DOWNLIGHT WITH 90 MINUTE BATTERY PACK
D2	120/277	15.5	LD6 B15 D010 / EU6B10208040 / 6LBSW2LI	PORTFOLIO	6" LED WALL WASHER
FE	277	21	IST-SA1A-740-4-SL2-CBP	MCGRAW-EDISON	EXTERIOR WALL PACK FULL CUT OFF WITH 90 MINUTE BATTERY PACK
GE	277	46	IST-SA1D-740-4-SL4-CBP	MCGRAW-EDISON	EXTERIOR WALL PACK FULL CUT OFF WITH 90 MINUTE BATTERY PACK
S1	277	166	GLEON-AF-03-LED-E1-SL4-HSS	MCGRAW EDISON	SINGLE HEAD POLE LIGHT, 22'-0" MOUNTING HEIGHT
S2	277	113	GLEON-AF-02-LED-E1-SWQ	MCGRAW EDISON	SINGLE HEAD POLE LIGHT, 22'-0" MOUNTING HEIGHT
X	120/277	1	LPX-7	COOPER LIGHTING	EXIT SIGNS WITH STANDARD BATTERY PACK WITH SELF DIAGNOSTICS.
XW	120/277	1	LPXW-7	COOPER LIGHTING	WET LOCATION EXIT SIGN WITH STANDARD BATTERY PACK WITH SELF DIAGNOSTICS.

NOTES: ALL LIGHT TYPES ARE NOT NECESSARILY USED.

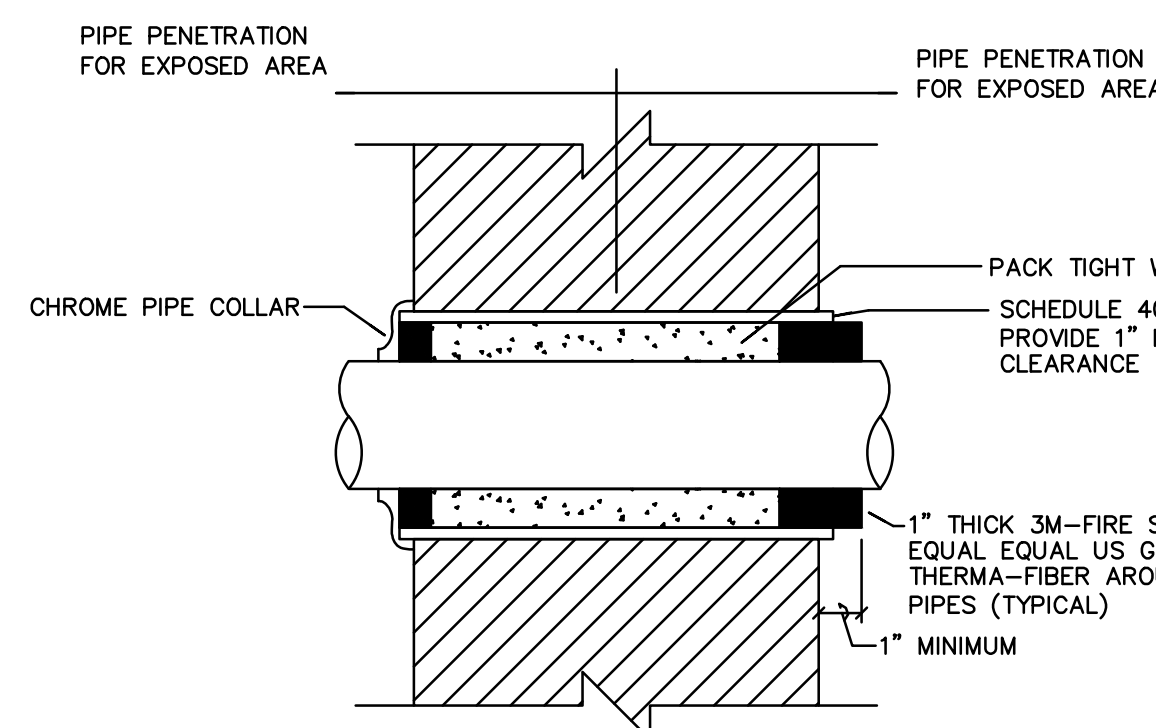
GENERAL NOTES

- ARCHITECT TO VERIFY ALL FINISHES AND FIXTURES PRIOR TO PURCHASE.
- FIXTURES A AND AE SHALL BE MOUNTED WITH CABLE AT ALL FOUR CORNERS.
- DIMMING BALLAST CAPABLE OF REDUCING POWER TO LESS THAN 35% OF RATED POWER.
- ALL FIXTURES IN SHOP AREA TO BE MOUNTED AT 12' AFF AND SUPPORTED AT ALL FOUR CORNERS.

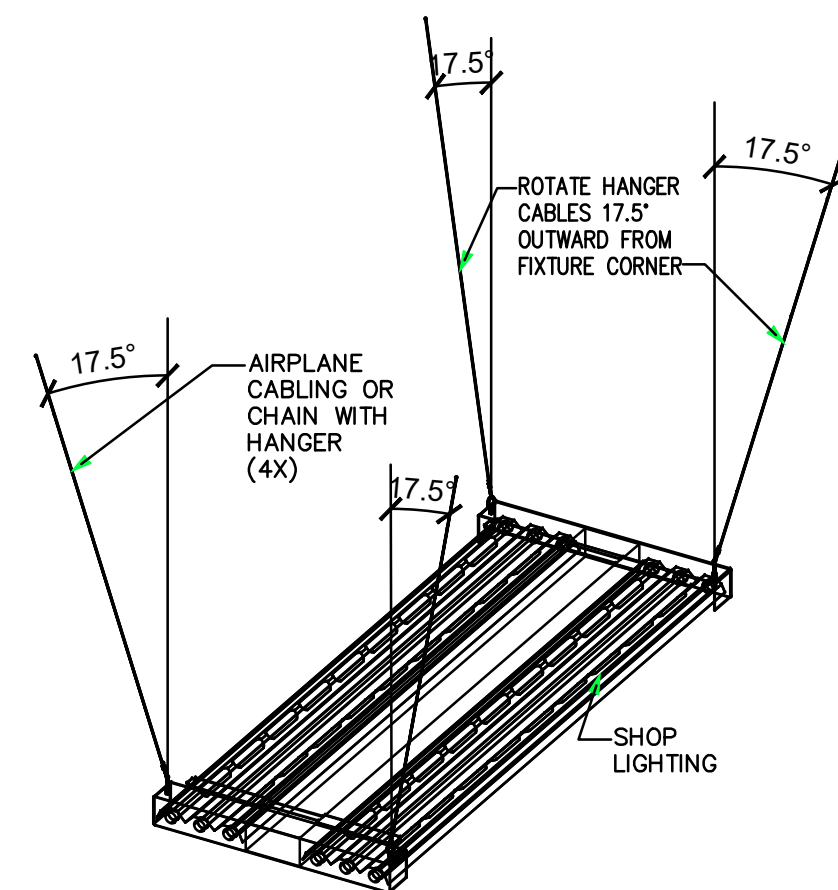
NATIONAL ACCOUNT LIGHTING VENDOR - CITY LIGHTING PRODUCTS, INC - TREY ADAMS @ 704-235-3133



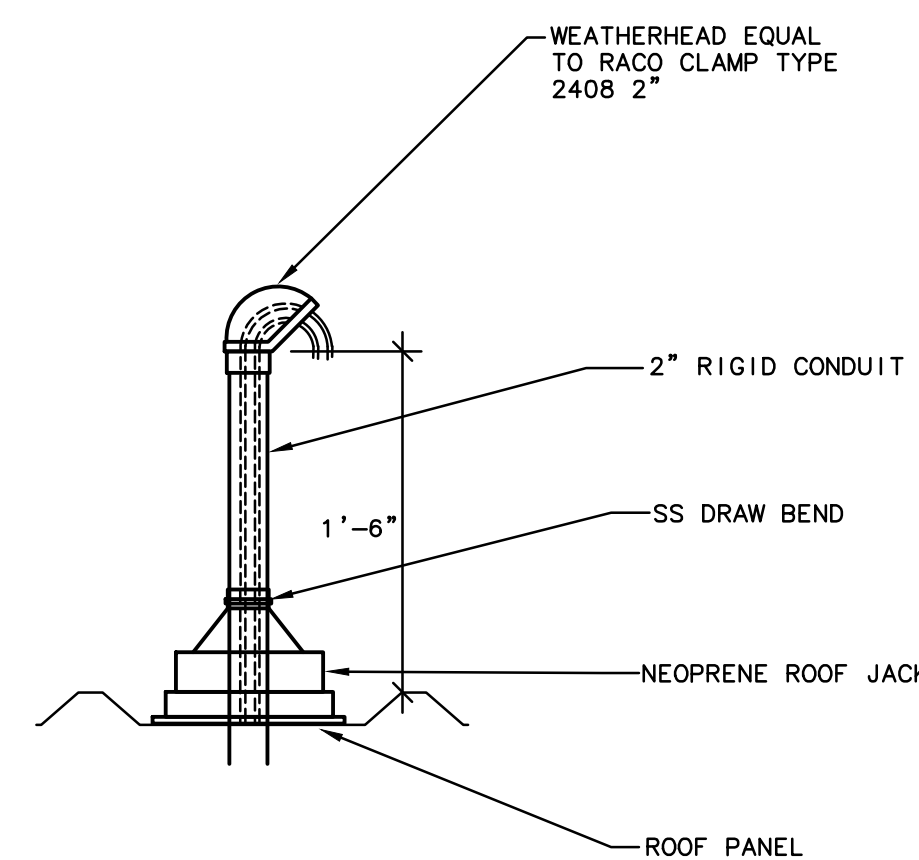
TIME CLOCK FOR RECIRC PUMP
NO SCALE - OWNER PROVIDED DETAIL



FIRE RATED PENETRATION
NO SCALE - OWNER PROVIDED DETAIL



LIGHTING FIXTURE SUPPORT
NO SCALE - OWNER PROVIDED DETAIL



CONDUIT PATHWAY TO ROOF
NO SCALE - OWNER PROVIDED DETAIL



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Job Number: 2116
Issue Date: 12.10.2021
Revisions:
Revisions:
Revisions:
Revisions:

ELECTRICAL DETAILS Sheet Name

E5.00

Project: 21029 Drawing: 21029-EE-0_Electrical Specifications.dwg

SECTION 16000 — ELECTRICAL SPECIFICATIONS (OWNER PROVIDED SPECIFICATIONS)

General

1. General Conditions:
- a. The General Conditions, Supplementary Conditions and Special conditions are a part of this contract and apply to this section as fully as if repeated herein.
2. Scope:
- a. This section of specifications includes but is not limited to:
 - b. All labor, tools, appliances, materials, and equipment required to furnish and install the complete installation shown on the drawings for this section of the work and/or in the following specifications, including that which is reasonably inferred.
3. Codes and Regulations:
- a. All WORK and materials shall be in accordance with applicable requirements of public authorities having jurisdiction and utilities furnishing services.
 - b. Codes governing this work include but are not limited to the latest approved edition of the following:
 - c. National Fire Protection Association's National Electrical Code (NEC).
 - d. NFPA 72 National Fire Alarm Code.
 - e. NFPA 101 Life Safety Code.
 - f. Local ordinances and regulations.
4. Standards:
- a. Electrical material and equipment shall have been tested and listed or labeled as conforming to approved published standards by Underwriters Laboratories where such listing or labeling service is available for the class of materials or equipment. Where applicable, listing or labeling shall apply to the complete assembled equipment and not to the components alone.
5. Submittals:
- a. Three copies of materials list, shop drawings, and data sheets shall be submitted to Owner's Construction manager for review. Submittals shall be made and favorable review secured before material and equipment is installed.
 - b. Materials list shall include fixtures, switchgear, panels, devices, wireways, disconnects, lamps, and all other specified or unspecified standard cataloged materials to be used. The list shall include manufacturer, type, and such other descriptive data as may be required to determine the acceptability of each item.
 - c. Shop drawings and data sheets for equipment and systems shall be submitted where required in the specification for those items. Include information on each component, wiring diagrams, layouts, dimensions and sufficient other data to establish compliance with the specifications and acceptability of the equipment or system.
6. Permits and Drawings:
- a. Permits and inspections shall be by the General Contractor.
7. As-Built Drawings:
- a. On a set of contract drawings, kept at the site during construction, mark all work that is installed differently from that shown, including any revised circuitry, material, or equipment. Upon completion of work, deliver to Owner's Construction Manager a set of signed and dated "as-built" drawings.
8. Guarantee:
- a. All work shall be guaranteed for a minimum period of one year from the date of acceptance by the Owner. The guarantee period for certain items shall be longer, as indicated in the specification for those items.
 - b. Should any malfunction develop during the guarantee time period due to defective material, faulty workmanship, or noncompliance with plans, specifications, codes, or directions of the Owner, Architect, Engineer, or Inspector, the Contractor shall furnish all necessary labor and materials to correct the malfunction without additional charges.

Products

1. Metering and Service Equipment:
- a. Metering and main service equipment shall be Square-D and shall include all required metering and main disconnect equipment such as power company meter socket and ring, current transformer space and connections, test block, galleys, main switches, and all other equipment required by the serving utility. Applicable codes shall apply to all service equipment and installation whether or not shown on the drawings or described.
 - b. The underground service pull section shall be furnished and installed by the Contractor as shown on drawings and shall comply with the requirements of the serving utility.
 - c. Construction and installation shall conform to the specification for "Distribution Switchboards". Location shall be as shown on the drawings.
 - d. Special construction or features shall be as shown on the plans. For switches and other items included refer to the paragraph where those items are specified.
 - e. Submit shop drawings as required under "submittals".
 - f. All conductor terminals and equipment enclosures shall be UL listed for use with minimum 75-degree C rated conductors.
2. Distribution Switchboards:
- a. Switchboards shall be factory assembled type by the same manufacturer that furnished the main service equipment. Voltage, phase, wire, rating, location, arrangement, and components shall be as shown on the drawings.
 - b. Switchboards shall be free standing units of angle iron or formed steel construction enclosed on the four sides and top. Top, front, and back panels shall be die formed of code gauge steel with no raw metal edges on the front.
 - c. Switchboards shall be shop finished in ANSI 61 gray enamel. All front plate shall be baked to obtain maximum finish hardness.
 - d. Bussing shall be tin plated electrical grade aluminum. Dimensions of busbars shall be based upon the ampacity shown on the plans. Bussing shall extend the full height of distribution sections. Busbars shall be rigidly supported, braced for 65,000 amps symmetrical and spaced according to the UL and NEC standards for bare busbar.
 - e. Provide a nameplate for each switchboard item on the face of the switchboard as specified in section "Nameplates".
 - f. Circuit breakers, switches, and other equipment to be included as an assembled part of a switchboard shall comply with the sub-section or paragraph where those items are specified.
 - g. All conductor terminals and equipment enclosures shall be UL listed for use with minimum 75-degree C rated conductors.
3. Panelboards:
- a. Panelboards shall be factory assembled circuit breaker type by Square-D. The number of poles, types, voltage, and ampere ratings shall be as indicated on the drawings. Bussing shall be aluminum.
 - b. Neutral wires shall be connected to a common neutral bus with blinding screws or lugs. The neutral bus shall be insulated from the cabinet. Ground wires shall be connected to a common equipment ground bus with blinding screws or lugs. The ground bus shall be bonded to the cabinet.
 - c. Cabinets shall be flush mounted. Cabinets shall be constructed of galvanized steel conforming to UL and NEC standards.
 - d. Fronts of cabinets shall be not less than 12 gauge steel fastened with screws in countersunk washers, or with approved concealed spring clamps. Cabinet fronts shall have hinged lockable doors with milled keys (all panels shall be keyed alike) and circuit schedule holders with clear plastic windows. Provide typewritten schedule in holders and submit copies for record purposes. Doors shall be fastened to frame with full length flush hinges. Panel fronts shall be shop painted with 2 coats of primer and a finish coat of gray enamel.
 - e. Special panelboard construction or features shall be as shown on drawings. For circuit breakers, contactors, and other equipment to be included as an assembled part of the panelboard, refer to the paragraph where those items are specified.
 - f. All conductor terminals and equipment enclosures shall be UL listed for use with minimum 75-degree C rated conductors.
 - g. Panelboard directory for each panel shall be neatly typed indicating actual load for each branch circuit.
 - h. Provide signage for all panelboards and switchboards warning qualified persons of potential flash hazard as required in NEC 110.16.
4. Circuit Breakers:
- a. Circuit breakers shall be by the same manufacturer that furnishes the main service equipment and panelboards.
 - b. Breakers shall be molded case bolt-on type. Clamp-on, push-on, or plug-in types are not acceptable. Removable handle ties and dud, quad, or tandem breakers are not acceptable. Mounting hardware, accessories, fuses, and enclosures shall be provided as necessary for the intended use.
 - c. Short circuit interrupting capacity shall be as indicated on the plans and shall in no case be less than 10,000rms symmetrical amps at the applied voltage.
5. Disconnect Switches:
- a. Switches shall be by Square-D.
 - b. Switches and enclosures shall be general duty. They shall be externally operated, quick-make, blade type, or numbers of poles and rating indicated or required.
 - c. Enclosures shall be NEMA 1 for dry, interior locations and NEMA 3B for damp, wet, or exterior locations. Finish shall be ANSI 61. Covers shall have a detachable interlock. Operating handles shall be pad-lockable.
 - d. Short circuit withstand ratings shall be 200,000 rms symmetrical amps.
 - e. Switches shall accept fuses of the rating and UL or NEMA class indicated.
 - f. Submit data sheets of the disconnect switches as required under "Submittals".
 - g. All conductor terminals and equipment enclosures shall be UL listed for use with minimum 75-degree C rated conductors.
6. Manual Motor Starters:
- a. Where shown on the plans, fractional horsepower motors shall have toggle type manual starters with thermal overload protection in each phase. Where the motor is out of sight of the switch provide a pilot light in the cover to indicate switch is closed.
 - b. Submit data on starters as required under "Submittals".
7. Snap Switches:
- a. AC general use snap switches shall be toggle handle, quiet operating, premium or heavy duty specification grade, UL listed and verified to meet Federal Specification W-586-d and NEMA heavy duty tests. Color shall be white.
 - b. All switches shall be rated 120/277 volts. For the 20 amp size, HP rating shall be 1 for 120V and 2 for 240V.
 - c. Switches shall be as listed below:
 - i. 20A SPST - Hubbell 1221, Leviton 1221, or PAS 521.
 - d. Switches required but not listed shall have equivalent quality as those listed above.
8. Receptacle Outlets:
- a. Receptacle outlets shall be standard NEMA configuration, grounding type.
 - b. General convenience outlets shall be 20 amp, 125 volt, 2 pole, 3 wire grounding. Outlets shall be UL listed and verified to meet Federal Specification W-C-595-c and NEMA heavy duty performance tests.

- c. Convenience outlet fronts shall be white. Color shall be brown on wood paneled walls.
 - d. Outlets shall be as listed below: (numbers do not include color designation or options).
 - i. 20A convenience - Hubbell 5362, Leviton 5362, or PAS 5362.
 - e. Special outlets, not listed above, shall be standard NEMA configuration for the application shown and shall be of equivalent grade and quality to those listed above. An approved cord cap and plug shall be furnished with each receptacle outlet except general convenience type. Plug shall be of the same grade, quality, and manufacturer as the outlet.
9. Device and Box Cover Plates:
- a. Provide a plate for each outlet, receptacle, switch, device, and box.
 - b. Plates for flush interior general use shall be white plastic. Color shall be brown on wood paneled walls. Plates for the kitchen, service, galley, and storage areas shall be stainless steel.
 - c. All plates for exterior use shall be listed and labeled "Suitable for Wet Location White in Use".
 - d. Ganged devices shall have gang plates exactly matching the arrangement and quantity of devices.
 - e. Special plates, engraving, or application shall be as indicated on the drawings or otherwise specified.
10. Outlet and Junction Boxes:
- a. The size of each outlet or junction box shall be determined by the number and sizes of wires and conduits entering the box, per NEC, but shall not be less than 4-inch square and 1-1/2 inches deep unless otherwise noted.
 - b. Outlets and junction boxes for interior use shall be galvanized, one-piece pressed or welded steel, knockout type, except where other types of boxes are indicated or specified. In masonry or concrete construction, waterproof boxes manufactured for that purpose shall be used. Plastic, fiber, or composition boxes will not be permitted.
 - c. Outlet and junction boxes for surface exterior use shall be cast boxes, Crouse-Hinds FS type, or approved equivalent.
11. Conduits and Fittings:
- a. Standard weight rigid metal conduit shall be hot dipped galvanized. All fittings shall be of the screw thread type. Couplings, locknuts, bushings, etc., shall be hot dipped galvanized.
 - b. Electrical metallic tubing (EMT) shall be galvanized. Couplings and connectors shall be galvanized. Fittings shall be compression type with gland sealing rings or set screw type.
 - c. Flexible conduit shall be galvanized steel or aluminum. Where used in damp or wet locations, flexible conduit shall be of the liquid-tight type with outer neoprene jacket and suitable liquid-tight fittings.
 - d. Rigid nonmetallic conduit shall be PVC schedule 40, UL approved.
12. Wire and Cable:
- a. Wire and cable for use on systems of 50 volts to 600 volts shall be 600 volt rated type THW or THHN for branch circuits. Feeders shall be THHN.
 - b. Wire and cable for use on systems of 50 volts shall be 300 volt PVC insulated and suitable for the class of wiring except as otherwise indicated or specified.
 - c. All conductors shall be copper.
13. Lighting fixtures and Lamps:
- a. Fixtures shall be complete with all required accessories and equipment, including lamps, necessary for a complete installation. Contractor shall receive, unpack, assemble, and install fixtures indicated as being furnished by others.
 - b. Fluorescent ballasts shall be CDM, ETL approved, high power factor "P" rated with a sound rating of "A". Ballasts for interior use shall be high frequency electronic type with a THD of less than 20%. Fixtures shall comply with local lighting codes.
 - c. 4' fluorescent lamps shall be F32T8 type by Philips, GE, or Sylvania, color as indicated on plans. All A-type lamps shall be 130 volt.
 - d. Verify the ceiling or wall construction, voltage, and the mounting requirements of each fixture and provide plaster frames, special flanges, concrete pour housings, boxes, brackets, adapters, hangers, stems, canopies, special ballasts or lenses, and other materials necessary to properly purchase and mount the fixture.
 - e. Submit shop drawings on all fixtures as required under "Submittals". Shop drawings may be catalog data sheets if complete information including mounting hardware is shown and identified. Shop drawings shall include mounting details and show compatibility with the ceiling or other equipment.
14. Nameplates and Labels:
- a. Nameplates shall be provided for circuit breakers in the main switchboard, switches, and to identify each panelboard and similar items which are furnished or installed under this section.
 - b. Nameplates shall be engraved laminated plastic with characters cut through the black top layer to white layer below.
15. Photo Electric Switches:
- a. Photo electric switches and photo controllers shall be Honeywell. Type of mounting, poles, voltage, wattage rating, and arrangement shall be as shown on plans.
 - b. Submit shop drawings as required under "Submittals". Catalog sheets will be adequate if information is shown.
16. Time Switches:
- a. Time switches shall be Tort. Type of mounting, poles, voltage, ampacity, and arrangement shall be as shown on drawings or required by conditions. Time switches controlling lighting shall have spring wound carry over and any other features shown on the plans or required for proper operation.
 - b. Enclosures shall be NEMA 1 for interior, dry locations.
17. Magnetic motor starters:
- a. Motor starters shall be horsepower rated non-reversing, full voltage of type required by motor with overload thermal protection.
 - b. Submit shop drawings as required under "Submittals".
18. Relays:
- a. Relays for motor control shall be heavy-duty industrial type, magnetically held, with both normally open and closed contacts.
 - b. Submit shop drawings as required under "Submittals".

Execution

1. Installation and connection of electrical equipment:
- a. Equipment furnished by others shall be completely connected to the electrical system except as noted on the drawings. All fuses, breakers, and disconnects shall be provided as necessary for proper protection. Provide all flexible conduit, boxes, fittings, receptacles, cords, plugs, and other material required for proper installation. Refer to manufacturer's directions where applicable.
2. Work on hvac and plumbing systems
- a. Complete power circuits, including breakers, switches, disconnects, wire and conduit, outlets, and connections to hvac and plumbing equipment shall be provided under this section.
 - b. Starters and controllers shall be provided under this section except where part of a package unit or panel specified in Division 15.
 - c. Hvac and plumbing control and interlock wiring regardless of voltage, and conduits for same, will be wired and connected under this section.
3. Installation of conduit:
- a. Standard weight rigid metal conduit shall be used where exposed to the weather, placed underground below concrete slab, in concrete or masonry construction in contact with earth, and where shown on the plans.
 - b. Galvanized steel electrical metallic tubing shall be used in above ground, interior, dry locations protected from weather and physical damage, and may be used in concrete or masonry construction not in contact with earth.
 - c. Flexible metallic conduit "flex" shall be used where shown on the plans and to connect conduit systems to motors, direct wind and vibrating equipment and as a final connection to lighting fixtures (6' max) in accessible ceilings. It may be used as a wiring system instead of EMT in interior walls only (dry frame or stud construction).
 - d. Liquidtight flexible metal conduit shall be used for final electrical connections to roof top or other equipment exposed to the environment.
 - e. Rigid nonmetallic conduit may be used for all underdrab or underground work in place of standard weight rigid metal and where specifically specified. All runs of rigid nonmetallic conduit shall contain a separate green ground wire adequately sized for service intended. Where required to continue above slab, stub nonmetallic conduit 6" above slab then make proper transition to metal conduit.
 - f. All rigid steel conduit installed in the ground shall be wrapped with Hunt's Process No. 3, PVC coated or encased in 3" concrete on all sides.
 - g. The minimum sizes of conduit shall be code size for the number and size of conductors, unless a larger size is shown, in which case such larger size shall be used.
 - h. All final connections to motors shall be flexible metal conduit and as shown on drawings.
 - i. Where portions of raceways or sleeves enter areas such as cold storage or where passing from the interior to the exterior of a building, the raceway or sleeve shall be filled with an approved material to prevent the circulation of warm air to a cooler section of the raceway or sleeve.
4. Installation and connection of wiring:
- a. No "box" type conductor/flex conduit or Romex cable will be permitted. All wiring shall be installed in conduit, wireways, or gutters, except where other raceway systems or methods are specifically shown.
 - b. Clean out and dry all conduit and wireways before pulling any wires. Use no lubricant except as recommended by the wire or cable manufacturer.
 - c. Make all connections and splices necessary to properly complete the electrical wiring. Connections and splices shall be made only in pull, junction, or outlet boxes, or in switchboards, wireways, or panels having sufficient code sized gutter space. Connections and splices in wires smaller than No. 6 AWG shall be made with spring type connectors, and in wires No. 6 AWG and larger shall be made with compression, sleeve type, or split bolt solderless connectors, insulated and lugged.
 - d. Connections for the power wiring of the POS system shall be soldered only, no solderless connections will be allowed. Wire nut connections after soldering.
5. Telephone system:
- a. Furnish and install complete conduit and terminal system for telephone services as indicated on drawings.
 - b. Install a 1/8-inch polyethylene pull-in wire in each conduit run.
 - c. Telephone wall outlets shall be 4-11/16 inch square by 2-1/8 inch deep metal boxes, with plaster ring and single bushed outlet flush telephone plates.
 - d. Furnish and install 3/4-inch conduit from the telephone equipment room main telephone backboard to nearest accessible cold water ground. *This conduit should be terminated in such a manner that access to grounding device may be had at any time in the future. - *per NEC 250 & NEC 800
6. Grounding:
- a. Make good mechanical and electrical contact of all poles, panelboards, switchboards, outlet boxes, junction boxes, and wherever the conduit run is connected. Permanently and effectively ground all conduit, fixtures, motors, and other equipment as required by all applicable codes, regulations, and standards.
7. Cleaning and protection of products and premises:
- a. At frequent intervals during the time of construction, the Contractor shall clean up after his work and remove his debris from the premises, leaving the building and grounds clean to the owner's satisfaction.

- b. The contractor shall take all necessary precautions to protect all materials, equipment, and property, whether electrical or not, from damage as a result of his work.

8. Checking and testing of equipment and systems:
- a. Panels, disconnects, starters, and other equipment installed under this section shall be inspected for defects and tested for proper operation.
 - b. Systems shall be tested for short circuits, open circuits, and wrong connections and shall be free from mechanical and electrical defects. Circuits shall be tested for proper neutral and ground connections.
9. Temporary construction power & telephone:
- a. Electrical contractor shall provide all labor, cost, and materials required for installation and maintenance of temporary construction power and telephone. Construction power shall be minimum of 100A, 120/208V1-phase, 4W, with provisions for one 50A, 208V, 2P, 4W grounding receptacle and four 120V, 20A, 1P receptacles.
10. Substitutions:
- a. Alternative manufacturer's will be considered for electrical devices, switches, outlets, etc. not provided by owner.
 - b. Catalogs, data sheets, or shop drawings shall be submitted to the construction manager for all alternative manufactured equipment as required in "Submittals".

SECTION 16721 FIRE ALARM SYSTEMS

PART 1 GENERAL

1.01 SUBMITTALS

- A. FIRE ALARM EQUIPMENT AND DEVICES, FIELD WIRING DIAGRAM, AND BATTERY CALCULATIONS.

PART 2 PRODUCTS

2.01 GENERAL

- A. PROVIDE FIRE ALARM SYSTEM AS DESCRIBED IN THE FIRE ALARM SYSTEM NOTES. PROVIDE A NON-PROPRIETARY FIRE ALARM EQUIPMENT BY HONEYWELL, FIRELITE, OR SILENT KNIGHT TO ALLOW REPRESENTATIVE'S "PROTECTION ONE" SECURITY VENDOR TO INTERFACE IN MONITORING BOTH THE FIRE ALARM SYSTEM AND THE SECURITY SYSTEM. IT IS THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO COORDINATE FIRE ALARM SYSTEM SELECTION WITH "PROTECTION ONE".
- B. FIRE ALARM SYSTEM SHALL UTILIZE CLASS B WIRING AND INCLUDE AN INTEGRAL BATTERY CAPABLE OF OPERATING SYSTEM FOR 24 HOURS IN STANDBY AND 10 MINUTES IN ALARM.
- C. FIRE ALARM SYSTEM SHALL BE ADDRESSABLE.
- D. FIRE ALARM EQUIPMENT SHALL MEET ALL REQUIREMENTS OF NFPA 72 AND ADA.
- E. CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT".
- F. FIRE ALARM SYSTEM SHALL PROVIDE A CONTACT CLOSURE TO THE SOUND SYSTEM FOR MUTING THE SOUND SYSTEM UPON A FIRE ALARM EVENT.

2.02 CONTROL PANEL

- A. PROVIDE A FIRE ALARM CONTROL PANEL WITH INTEGRAL TRANSIENT VOLTAGE SURGE PROTECTION AND CONNECTION TO REMOTE MONITORING STATION VIA TELEPHONE LINE.
- B. AMPLIFIER SYSTEM SHALL BE CAPABLE OF POWERING ALL AUDIBLE DEVICES AT 2 WATTS EACH.

2.03 ALARM INITIATION DEVICES

- A. PROVIDE COMBINATION RATE-OF-RISE AND FIXED TEMPERATURE HEAT DETECTORS.
- B. PROVIDE NON-CODED, NON-BREAK GLASS MANUAL FIRE ALARM STATIONS IN RED, SEMI-FLUSH MOUNTED ENCLOSURE.
- C. PROVIDE PHOTOELECTRIC SPOT TYPE SMOKE DETECTORS.

2.04 ALARM SIGNALING DEVICES

- A. PROVIDE SEMI-FLUSH MOUNTED AUDIBLE/VISUAL DEVICE WITH INTEGRAL XENON STROBE LIGHT.
- B. AUDIBLE DEVICES SHALL HAVE POWER TAPS FROM 1/4 THROUGH 2 WATTS FOR SPEAKERS AND 14 DBA/88 DBA FOR HORNS.
- C. PROVIDE XENON STROBE LIGHTS WITH SELECTABLE 15/75 CANDELA OUTPUT.

PART 3 EXECUTION

3.01 GENERAL

- A. INSTALL FIRE ALARM CONTROL PANEL AND/OR REMOTE ANNUNCIATOR AS SHOWN IF THAT LOCATION IS ACCEPTABLE WITH LOCAL FIRE MARSHAL.
- B. ADJUST POWER TAPS ON AUDIBLE DEVICES TO MEET SOUND LEVEL REQUIREMENTS AT ALL LOCATIONS.
- C. INSTALL CONDUIT AND CABLE AS REQUIRED FOR CONNECTION OF CONTROL PANEL TO TELEPHONE EQUIPMENT.
- D. PROVIDE CONDUIT AND CONTROL WIRING AS REQUIRED FOR CONTROL OF SMOKE DAMPERS AND ELEVATOR.
- E. PROGRAM PANEL TO USE COMMON ROOM NAMES AND NUMBERS TO IDENTIFY DEVICES ON ANNUNCIATOR PANEL DURING NOTIFICATIONS. PROVIDE RECORD DRAWING SHOWING ALL DEVICES, ADDRESSES, AND ASSOCIATED CIRCUIT.

3.01 SMOKE DETECTORS

- A. INSTALL CEILING MOUNTED SMOKE DETECTORS AT LOCATIONS INDICATED. SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THEIR RATED COVERAGE.
- B. INSTALL DUCT MOUNTED SMOKE DETECTORS AT THE CENTER OF THE VERTICAL DIMENSION OF THE DUCT AND AT LEAST SIX DUCT WIDTHS DOWNSTREAM OF THE NEAREST INLET DUCT.

3.02 HEAT DETECTORS

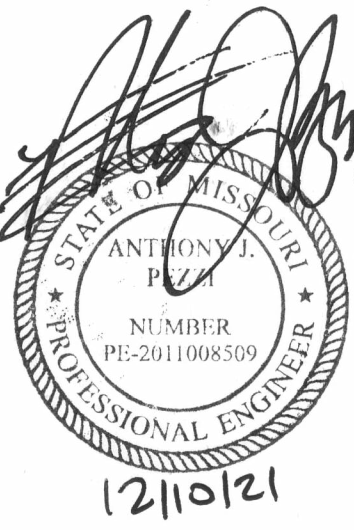
- A. INSTALL CEILING MOUNTED HEAT DETECTORS AT LOCATIONS INDICATED. HEAT DETECTORS SHALL BE FIXED TEMPERATURE TYPE IN MECHANICAL ROOMS AND RATE OF RISE TYPE IN ALL OTHER AREAS.

3.03 DEVICES

- A. FIRE ALARM SIGNALING DEVICES SHALL, WHEN WALL MOUNTED, BE LOCATED WITH TOP OF DEVICE AT A MAXIMUM OF 8'-0" OR 6" BELOW FINISHED CEILING, WHICH EVER IS LOWER AND A MINIMUM HEIGHT OF 6'-8" ABOVE FLOOR TO THE BOTTOM OF THE DEVICE.
- B. FIRE ALARM MANUAL PULL STATIONS SHALL BE MOUNTED WITH BOTTOM AT 4'-0" ABOVE FLOOR.

3.04 TESTING

- A. FINAL CONNECTIONS AT CONTROL PANEL AND TESTING OF COMPLETE SYSTEM SHALL BE BY A FACTORY-TRAINED TECHNICIAN. TEST ENTIRE SYSTEM INCLUDING ALL DEVICES AND FEATURES.
 - B. NOTIFY OWNER IN WRITING WHEN FINAL TESTING IS COMPLETE AND SYSTEM IS FULLY OPERATIONAL.
- END OF FIRE ALARM SPECIFICATIONS



CALIBER
COLLISION

LEES SUMMIT,
MISSOURI

All measurements and items portrayed on this sheet are deemed to be accurate by architect, however all bidding General Contractors should field verify the actual conditions. Any changes to the scope of work, and thus potential change orders, should be identified and communicated in your price submittal to Cross Development / Caliber Collision.

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Job Number:	2116
Issue Date:	12.10.2021
Revisions:	
Revisions:	
Revisions:	
Revisions:	

ELECTRICAL SPECIFICATIONS

Sheet Name

E6.00

PARSONS ENGINEERING, INC
ELECTRICAL
CDA NUMBER: F01125744
4751 TROUSDALE DRIVE, SUITE 202
NASHVILLE, TN 37220
615-386-9396
ANTHONY PEZZI, ELECTRICAL ENGINEER
LICENSE NUMBER: PE-2011008509



PARSONS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

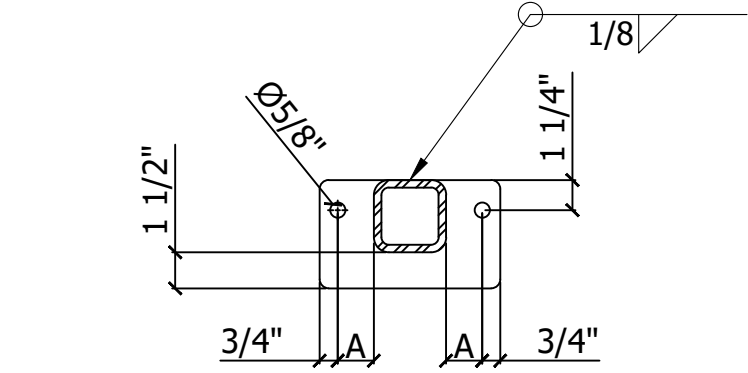
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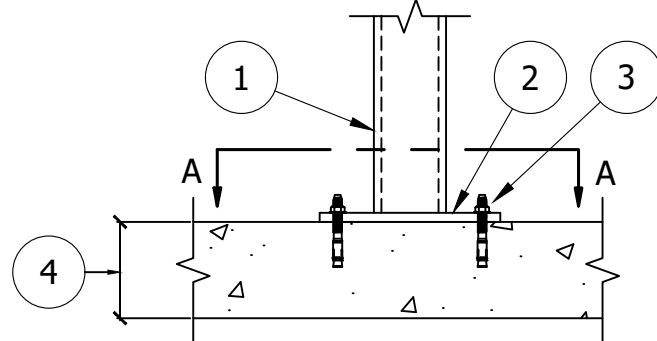
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3

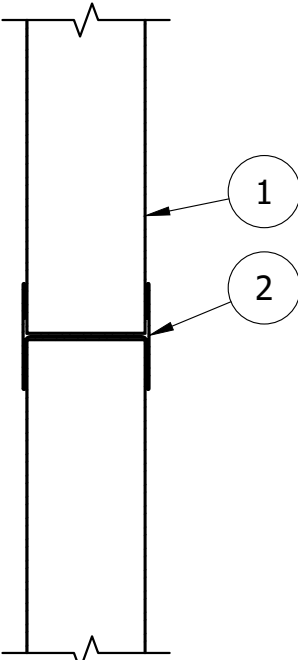
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SECTION A-A



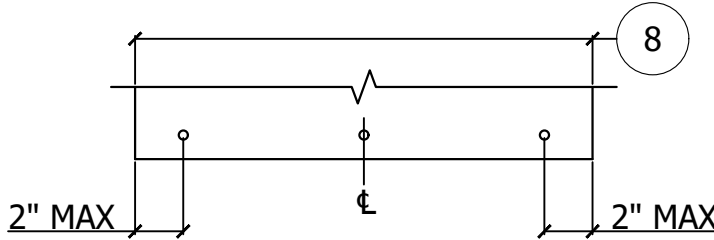
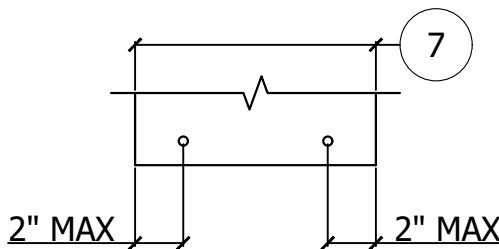
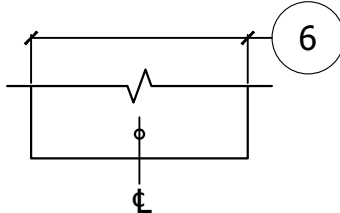
AR5C SPACE SAVER STRUCTURE
U136440-A



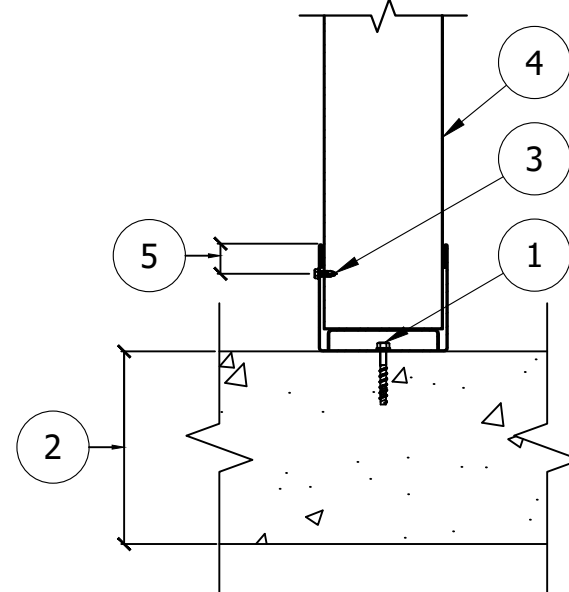
SCALE
3" = 1'-0"

1. DUAL SKIN INSULATED PANEL.
2. 20GA H-CHANNEL.

AR6A PANEL TO PANEL CONNECTION
U136440-A,B



PANEL BOTTOM
ELEVATIONS



SCALE
3" = 1'-0"

AR7 BASE CHANNEL
U136440-A,B

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MODEL INFO
GSN-DETAILS
STANDARD DETAILS

ORDER/SERIAL NUMBER
U136440

DRAWING SET
DS

REVISION
A

DRAWING
GSN-DETAILS

SHIP TO
CALIBER COLLISION CENTERS
710 SE 7TH TERRACE
LEES SUMMIT, MO 64063

SOLD TO
CALIBER COLLISION CENTERS
2941 LAKE VISTA DRIVE
LEWISVILLE, TX 75067

DRAWING
A-GA

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GENERAL LAYOUT
GFS EQUIPMENT

ORDER/SERIAL NUMBER
U136440

DRAWING SET DS	REVISION A
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DRAWING
GL

REV	DATE	REFERENCE	BY	DESCRIPTION
REVISION HISTORY				

REQUIREMENTS

EXHAUST FAN &
INTAKE FAN

B
ULTRA XD
MIX ROOM
15'L x 6'W x 9'H

G CIRCUIT

QUANTITY OF LIGHT FIXTURES (4-TUBE, 6-TUBE, STD OR LED)	14
--	----

QUANTITY OF LIGHT FIXTURES (4-TUBE, 6-TUBE, STD OR LED)	14
--	----

CIRCUIT CAPACITY

FULL LOAD AMP DRAW /MINIMUM CIRCUIT CAPACITY				
230V 1PH	208V 3PH	230V 3PH	480V 3PH	575V 3PH
	76.4 / 96.0			

FULL LOAD AMP DRAW /MINIMUM CIRCUIT CAPACITY				
230V 1PH	208V 3PH	230V 3PH	480V 3PH	575V 3PH
	76.4 / 96.0			

MOTOR

MOTOR S
10HP INTAKI

INTEGRATE
(4) 1HP ADVA

MOTOR S
10HP INTAKI

INTEGRATE
(4) 1HP ADVA

INLET PIPE
SIZE NPT
(IN)

TEMP. RISE (°F)
106

MAX INLET PRESS. (PSI)	
5.0	

ET MAX ATE ()	I P ()

11.5

WORKING HOURS (HR)	PRICE INDEX
1000	

AIR HEATER

FUEL

NATURAL
GAS

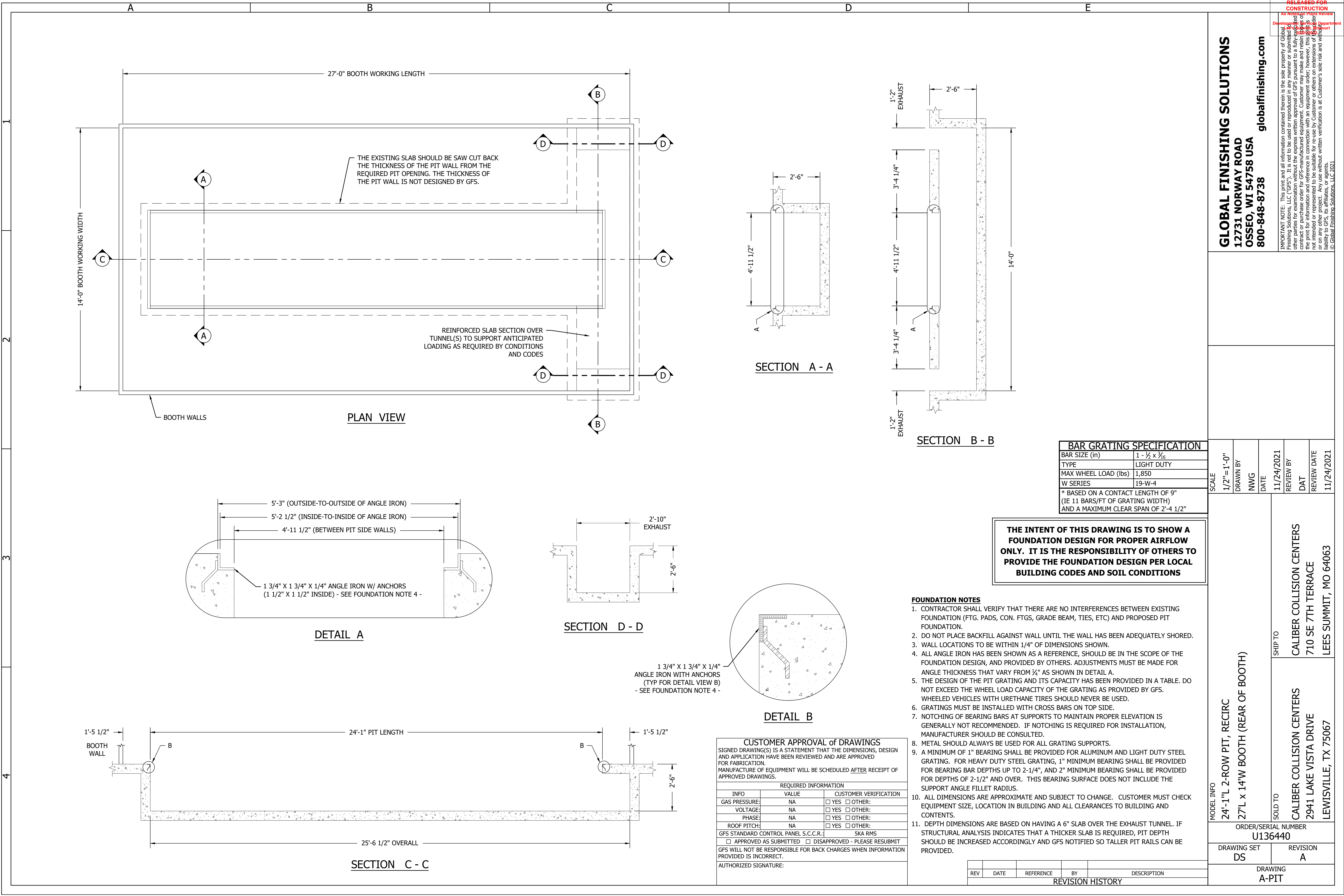
TIME / JUST OR)	
2.5	N

INTAKE EXHAUST MOTOR (HP)	10 / 1
------------------------------------	--------

MAX AIR
FLOW
RATE
(CFM)

A

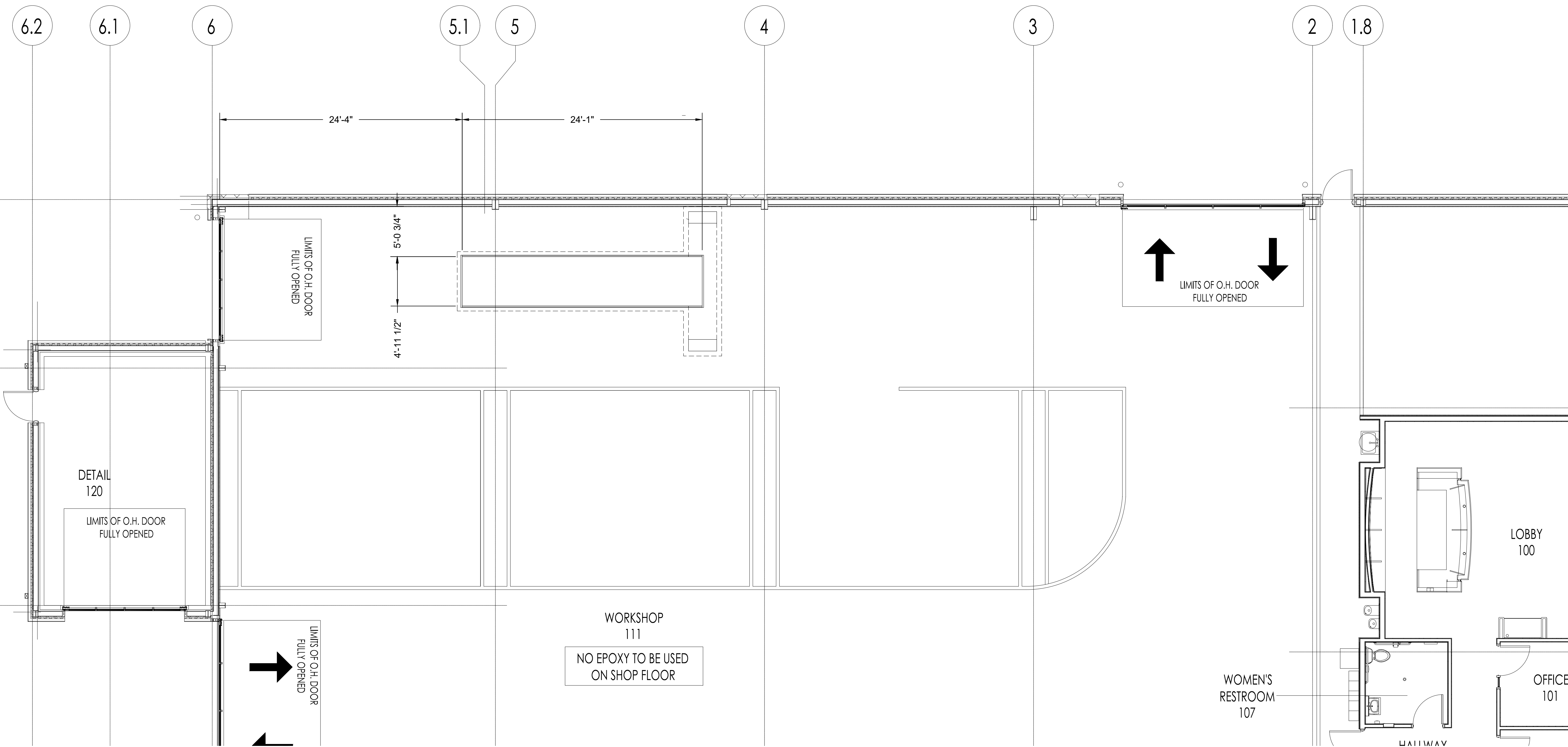
ULTRA XD BOOTH
7'L x 14'W x 9'H INSIDE



REQUIRED INFORMATION		
INFO	VALUE	CUSTOMER VERIFICATION
GAS PRESSURE:	NA	<input type="checkbox"/> YES <input type="checkbox"/> OTHER:
VOLTAGE:	NA	<input type="checkbox"/> YES <input type="checkbox"/> OTHER:
PHASE:	NA	<input type="checkbox"/> YES <input type="checkbox"/> OTHER:
ROOF PITCH:	NA	<input type="checkbox"/> YES <input type="checkbox"/> OTHER:
GFS STANDARD CONTROL PANEL S.C.C.R.:		SKA RMS
<input type="checkbox"/> APPROVED AS SUBMITTED <input type="checkbox"/> DISAPPROVED - PLEASE RESUBMIT		
GFS WILL NOT BE RESPONSIBLE FOR BACK CHARGES WHEN INFORMATION PROVIDED IS INCORRECT.		
AUTHORIZED SIGNATURE:		

GFS WILL NOT BE RESPONSIBLE FOR BACK CHARGES WHEN INFORMATION PROVIDED IS INCORRECT.

AUTHORIZED SIGNATURE:



WORKSHOP
111

NO EPOXY TO BE USED
ON SHOP FLOOR

WOMEN'S
RESTROOM
107

LOBBY
100

OFFICE
101

REV	DATE	REFERENCE	BY	DESCRIPTION
REVISION HISTORY				

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12731 NORWAY ROAD
OSSEO, WI 54758 USA
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MODEL INFO		SCALE	
PIT LAYOUT		3/16" = 1'-0"	
GFS EQUIPMENT		DRAWN BY	
		NWG	
		DATE	
SOLD TO		11/24/2021	
SHIP TO		REVIEW BY	
CALIBER COLLISION CENTERS 2941 LAKE VISTA DRIVE LEWISVILLE, TX 75067	CALIBER COLLISION CENTERS 710 SE 7TH TERRACE LEES SUMMIT, MO 64063	DAT	
		REVIEW DATE	
		11/24/2021	

THIS PAINT MIX ROOM IS ETL LISTED, REFERENCE ETL REPORT NUMBER 100690377CRT-001.
IT HAS BEEN REVIEWED AND FOUND TO CONFORM TO THE REQUIREMENTS OF THE FOLLOWING
STANDARDS BY INTERTEK TESTING LABORATORIES.

- NFPA 33 STANDARD FOR SPRAY APPLICATION USING FLAMMABLE OR COMBUSTIBLE MATERIALS
- NFPA 91 STANDARD FOR EXHAUST SYSTEMS FOR AIR CONVEYING OF VAPORS, GASES, MISTS AND NONCOMBUSTIBLE PARTICULATE SOLIDS, PAINT SPRAY BOOTHS AND DRYING OVENS

IN ADDITION TO THE ABOVE CONFORMANCES, THE MIX ROOM ALSO CONFORMS TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS.

- NFPA-70 NATIONAL ELECTRIC CODE
- OSHA SAFETY AND HEALTH STANDARDS (29CFR 110, 1910.107)
- CURRENT EDITION INTERNATIONAL BUILDING CODE
- CURRENT EDITION INTERNATIONAL FIRE CODE CHAPTER 24

PAINT MIX ROOM CONSTRUCTION NOTE:

1. MAXIMUM PAINT STORAGE IN THE PAINT MIX ROOM IS 60 GALLONS.
2. MINIMUM CIRCUIT CAPACITY IS REQUIRED (BY OTHERS) TO CONNECTION POINT (E).
3. MIX ROOM IS FABRICATED FROM 18/20 GAGE WHITE PRECOAT SHEET STEEL.
4. DUCTWORK IS FABRICATED FROM 18 GAGE G90 GALVANIZED STEEL.
5. GLASS USED IN THE PAINT MIX ROOM MEETS AND EXCEEDS ANSI Z-97.1 STANDARD.
6. FIRE SUPPRESSION SYSTEM IS NOT INCLUDED WITH THE STANDARD MIX ROOM BUT IS REQUIRED BY NFPA-33.
7. PAINT MIX ROOM EXHAUST FAN AIRFLOW RATE IS 949 CFM @ 1/2" OF STATIC PRESSURE (1,740 FPM) AND MUST BE OPERATIONAL AT ALL TIMES WHEN PAINT IS BEING STORED.
8. THE EQUIPMENT DEPICTED IN THIS DRAWING HAS NOT BEEN APPROVED FOR OUTDOOR APPLICATIONS OR FOR USE IN HIGH SEISMIC AREAS. IN THE EVENT THAT SUCH APPLICATIONS AND/OR USES ARE CONTEMPLATED, THE PURCHASER OF THE EQUIPMENT IS RESPONSIBLE FOR NOTIFYING GFS SO THAT ADDITIONAL STRUCTURAL ANALYSIS CAN BE PERFORMED AND THE NECESSARY MODIFICATIONS CAN BE DETERMINED.
9. DUCT SUPPORT NOT SUPPLIED OR DESIGNED BY GFS. EQUIPMENT IS NOT DESIGNED TO SUPPORT DUCT. DUCT SUPPORTS SHALL BE DESIGNED TO RELIEVE THE EQUIPMENT OF ALL DUCT LOAD.
10. EXHAUST TERMINATION POINT. PER THE INTERNATIONAL FIRE CODE, THE TERMINATION POINT FOR EXHAUST DUCTS DISCHARGING TO THE ATMOSPHERE SHALL NOT BE LESS THAN THE FOLLOWING DISTANCES:
 1. 30 FEET FROM THE LOT LINE;
 2. 10 FEET FROM OPENINGS INTO THE BUILDING;
 3. 6 FEET FROM EXTERIOR WALLS AND ROOFS;
 4. 30 FEET FROM COMBUSTIBLE WALLS OR OPENINGS INTO THE BUILDING THAT ARE IN THE DIRECTION OF THE EXHAUST DISCHARGE;
 5. 10 FEET ABOVE ADJOINING GRADE.
 6. 25 FEET FROM ANY UNPROTECTED OPENING IN AN NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE CONSTRUCTION THAT ARE IN THE DIRECTION OF THE EXHAUST DISCHARGE.
 7. 25 FEET FROM ANY EXIT DISCHARGE OR PUBLIC WAY THAT ARE IN THE DIRECTION OF THE EXHAUST DISCHARGE.
11. INCLUDED BUT NOT SHOWN:
 - (1) Ø10" ROOF FLANGE
 - (2) Ø10" 22.5° ELBOW
 - (1) AIR DEFLECTOR
 - (1) AUTO DOOR CLOSURE
 - (1) CALIBER DECAL PACKAGE

CUSTOMER APPROVAL of DRAWINGS

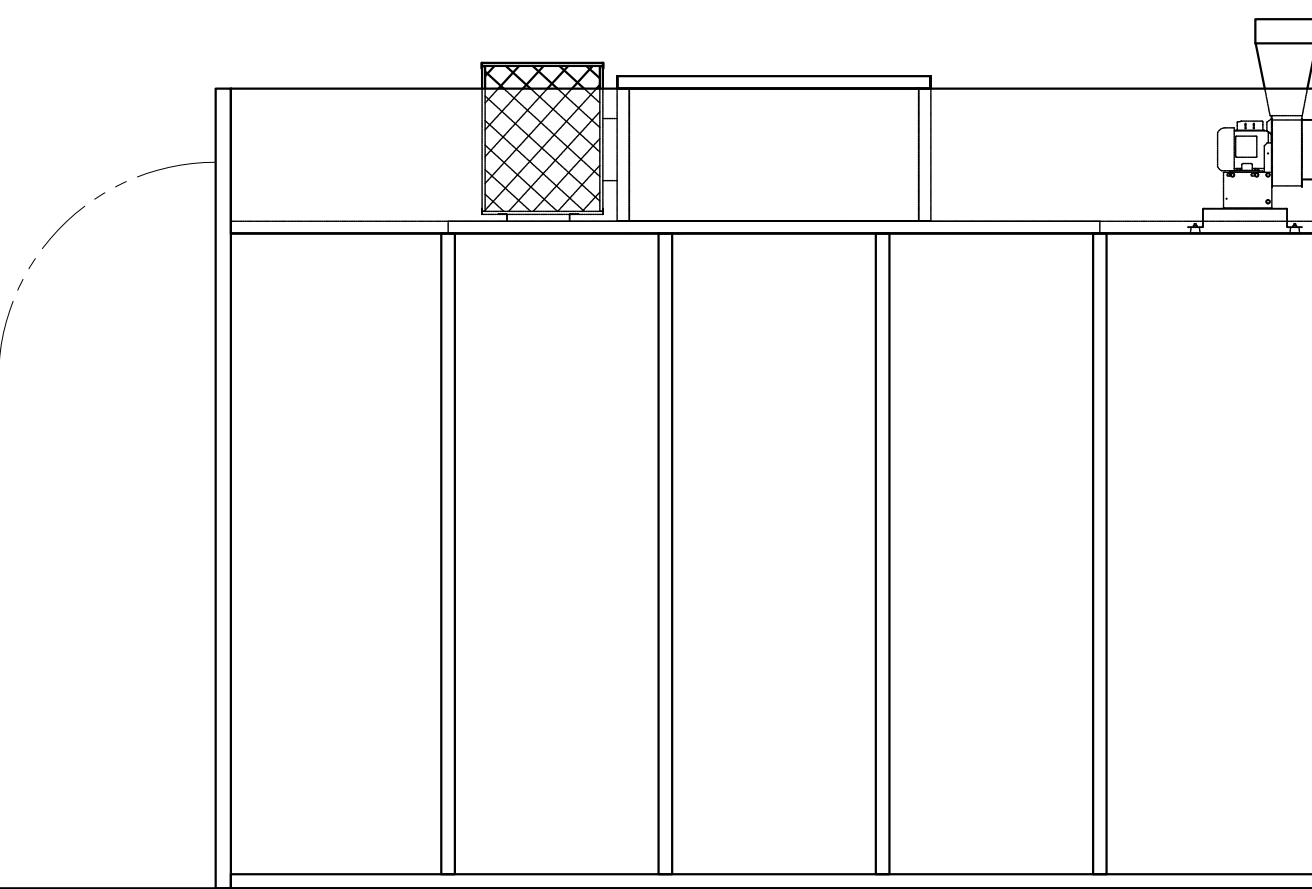
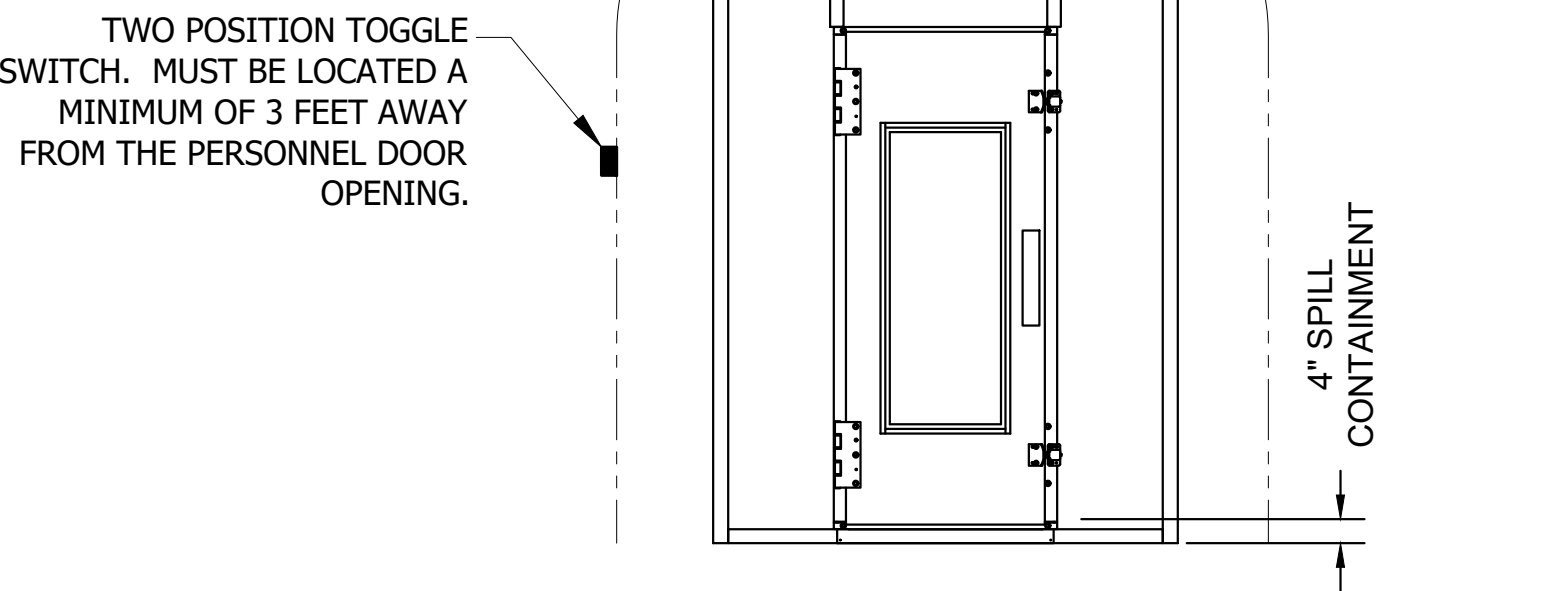
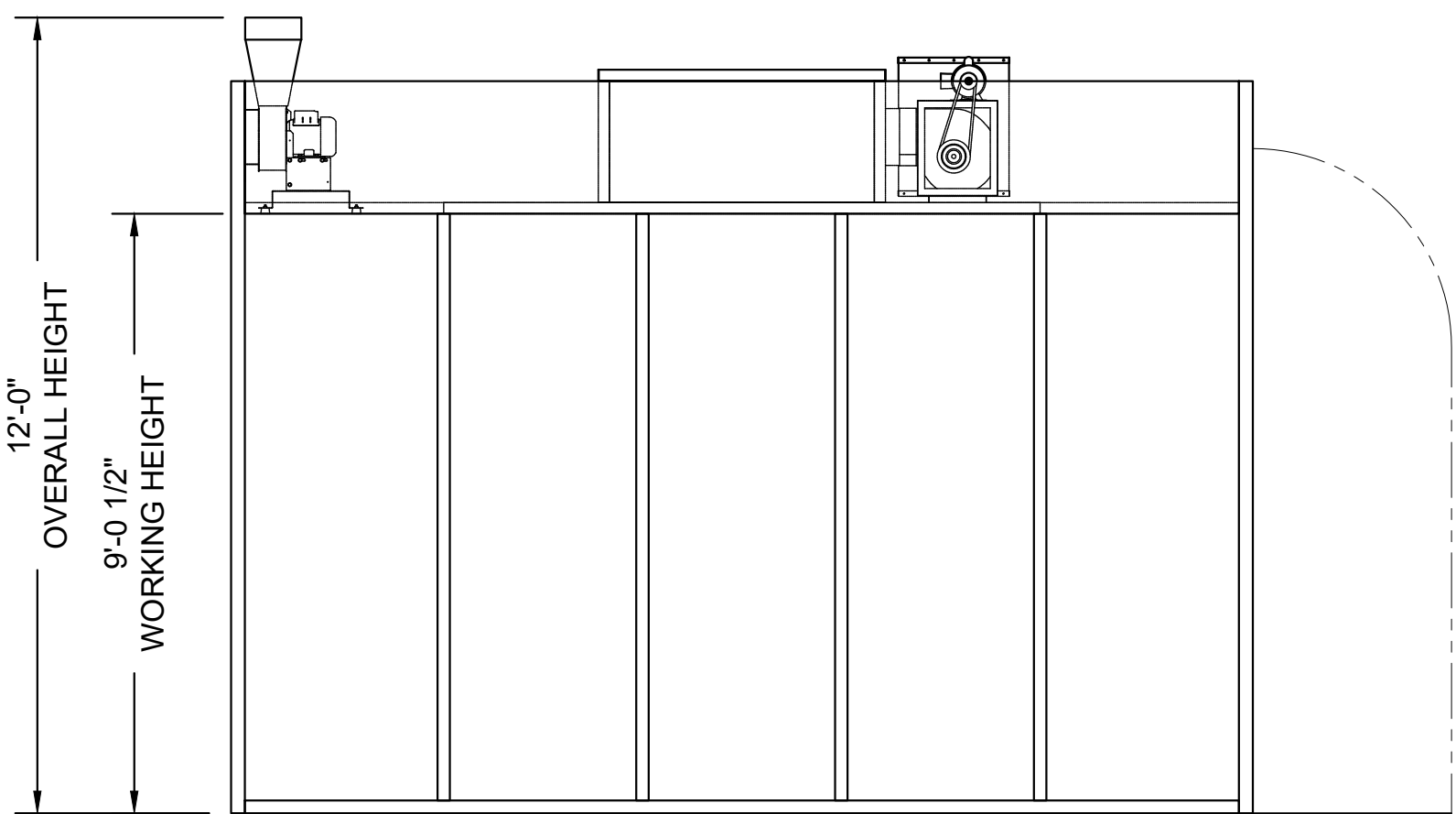
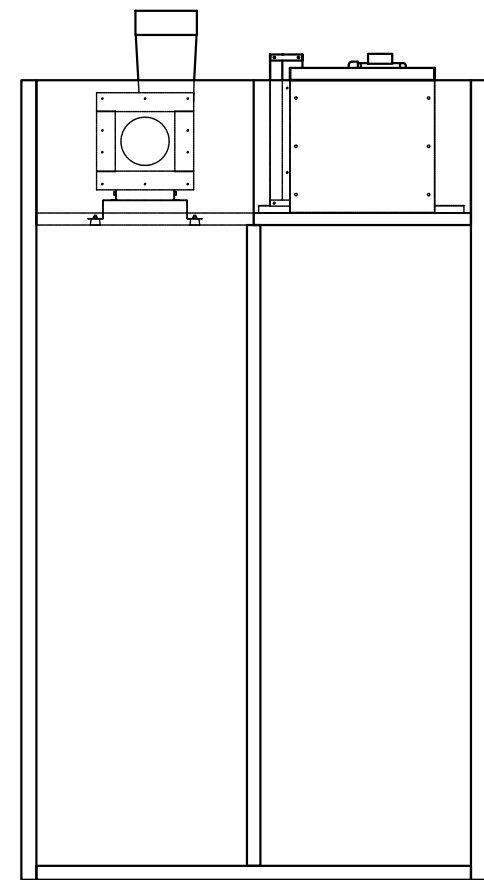
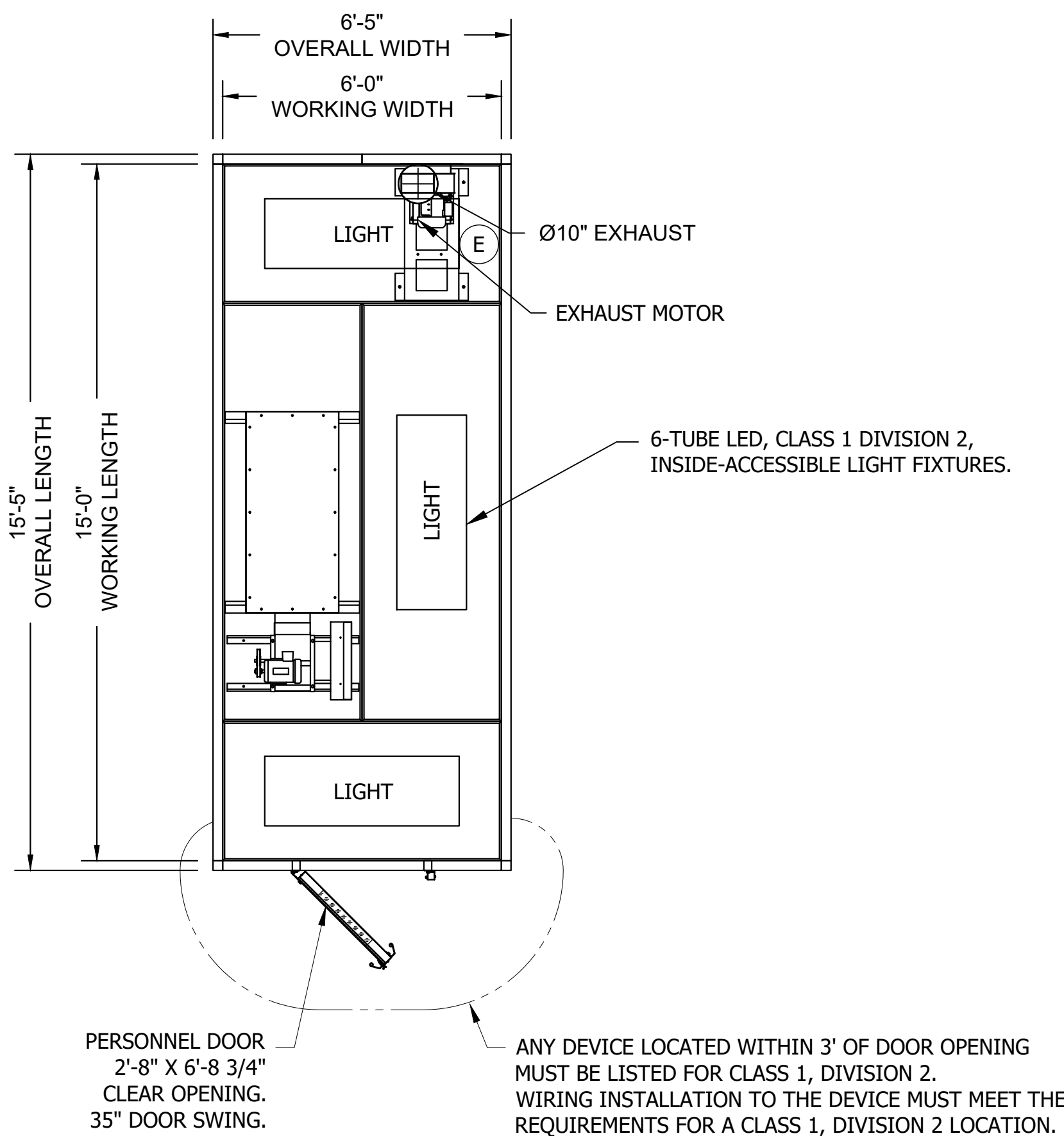
SIGNED DRAWING(S) IS A STATEMENT THAT THE DIMENSIONS, DESIGN AND APPLICATION HAVE BEEN REVIEWED AND ARE APPROVED FOR FABRICATION.
MANUFACTURE OF EQUIPMENT WILL BE SCHEDULED AFTER RECEIPT OF APPROVED DRAWINGS.

REQUIRED INFORMATION		
INFO	VALUE	CUSTOMER VERIFICATION
GAS PRESSURE:	NA	<input type="checkbox"/> YES <input type="checkbox"/> OTHER:
VOLTAGE:	120V	<input type="checkbox"/> YES <input type="checkbox"/> OTHER:
PHASE:	1PH	<input type="checkbox"/> YES <input type="checkbox"/> OTHER:
ROOF PITCH:	1/12	<input type="checkbox"/> YES <input type="checkbox"/> OTHER:

GFS STANDARD CONTROL PANEL S.C.C.R.:	5KA RMS
<input type="checkbox"/> APPROVED AS SUBMITTED <input type="checkbox"/> DISAPPROVED - PLEASE RESUBMIT	

GFS WILL NOT BE RESPONSIBLE FOR BACK CHARGES WHEN INFORMATION PROVIDED IS INCORRECT.

AUTHORIZED SIGNATURE:



ELECTRICAL REQUIREMENTS

	ELECTRICAL DEVICE	MOTOR	FULL LOAD AMP DRAW	MINIMUM CIRCUIT CAPACITY
EXHAUST FAN & INTAKE FAN	FAN MOTOR (EACH)	1/2HP, 120V, 1PH	9.8	30 AMP
	LIGHT FIXTURES	120V / 277V	1.0 / 0.5 (EACH)	

Ø10" STACK WEIGHTS

DUCT	6.47	LBS/LF
FAN	45	LBS
MOTOR	27	LBS
RINGS		LBS/PAIR OF RINGS
SILENCER		LBS
NO-LOSS		LBS
ARV	24	LBS
HOOD		LBS

REV	DATE	REFERENCE	BY	DESCRIPTION
REVISION HISTORY				

GLOBAL FINISHING SOLUTIONS
12731 NORWAY ROAD
OSSEO, WI 54758 USA
800-848-8738
globalfinishing.com



SCALE	3/8" = 1'-0"
DRAWN BY	NWG
DATE	11/24/2021
REVIEW BY	DAT
REVIEW DATE	11/24/2021

ULTRA XD PAINT MIX ROOM
15'1" x 6'1" W x 8'4" 1 SIDED

SOLD TO	SHIP TO
CALIBER COLLISION CENTERS 2941 LAKE VISTA DRIVE LEWISVILLE, TX 75067	CALIBER COLLISION CENTERS 710 SE 7TH TERRACE LEES SUMMIT, MO 64063

SOLD TO
CALIBER COLLISION CENTERS
2941 LAKE VISTA DRIVE
LEWISVILLE, TX 75067

ORDER/SERIAL NUMBER	11136440
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DRAWING SET	REVISION
50	1

DS	A
DRAWING B-GA	