



Fire Marshal Division

P.O. Box 370
Lillington, NC 27546
910-893-7580

Application for Plan Review

Permit Type: _____

Date Received: _____ Received By: _____

Name of Project: _____

Physical Address of Project: _____

Plans Submitted By: _____

Project Phone: (_____) - ____ - ____

Contact Person/Address: _____

Contact Phone: (_____) - ____ - ____ (_____) - ____ - ____

Contractor's Name/Info: _____

Contractor's Phone: (_____) - ____ - ____

Contact Email: _____

- **Plans that are submitted will be reviewed as quickly as possible with an average time of review between 7-10 working days.**
- **Status checks may be conducted on plan reviews by visiting the website <http://hteweb.harnett.org/Click2GovBP/Index.jsp> or by calling the Harnett County Central Permitting Office (910-893-7525 : Opt. 2), or the Harnett County Fire Marshal's Office (910-893-7580).**
- **Approved plans must be picked up from the Central Permitting Office and all fees paid before any required inspections can be conducted.**

★ COMING SOON ★



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Reviewed for Fire Code Compliance

Harnett COUNTY NORTH CAROLINA Leslie Jackson

05/15/2024 9:23:16 AM

Q3 2023 'G+'

NC HIGHWAY 210
LILLINGTON, NORTH CAROLINA
27546

OWNER / DEVELOPER
REESE REAL ESTATE LILLINGTON, LLC

1076 SUMMIT DRIVE
MIDDLETOWN, OH 45042

OWNERS REPRESENTATIVE
KEITH CARTER
513.849.8015
keith@reesereadev.com

TENANT
TRACTOR SUPPLY COMPANY

5401 VIRGINIA WAY
BRENTWOOD, TN 37027

PROJECT MANAGER
MIKE VANCLEAVE
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mvancleave@tractorsupply.com

ARCHITECT



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NASHVILLE, TN 37204

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PROJECT MANAGER
ELIZABETH MORRISSETTE
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CIVIL ENGINEER

QUIBLE & ASSOCIATES, P.C.

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POWELLS POINT, NC 27949

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STRUCTURAL ENGINEER

BENNETT & PLESS, INC.

565 MARRIOTT DRIVE, SUITE 300
NASHVILLE, TN 37214

ENGINEER OF RECORD
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fweis@bennett-pleess.com

PROJECT MANAGER
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jfinger@bpl-enclosure.com

MECHANICAL AND PLUMBING

SCHELTON ENGINEERING

1163 WEST MAIN STREET
FRANKLIN, TN 37064

ENGINEER OF RECORD
GARY W. SCHELTON, P.E., LEEP AP
615.730.9111
gary@scheltonengineering.com

ELECTRICAL ENGINEER

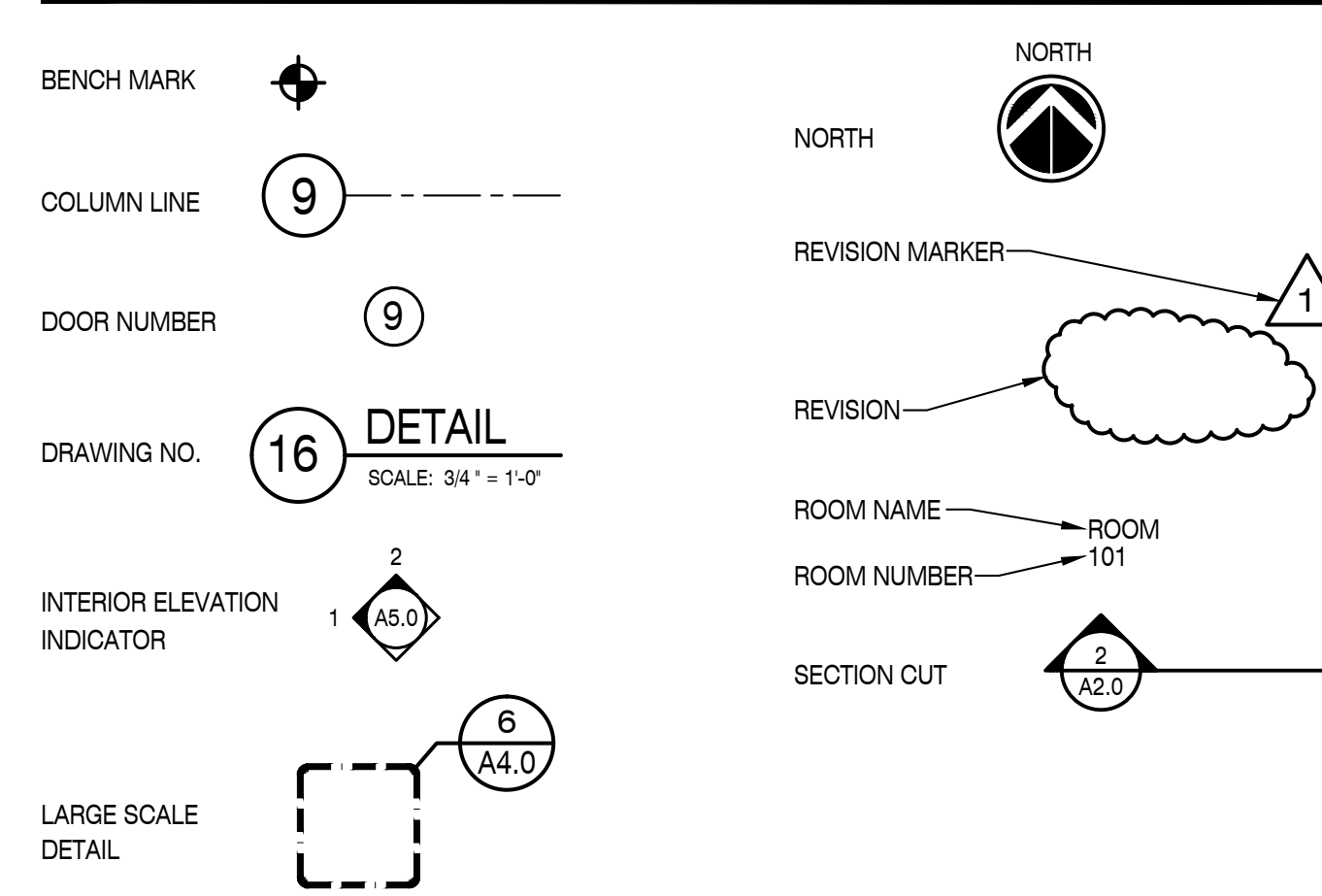
PARSONS ENGINEERING

4751 TROUSDALE DRIVE, SUITE 202
NASHVILLE, TN 37203

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615.386.9396
apezzi@parsonsengeering.com

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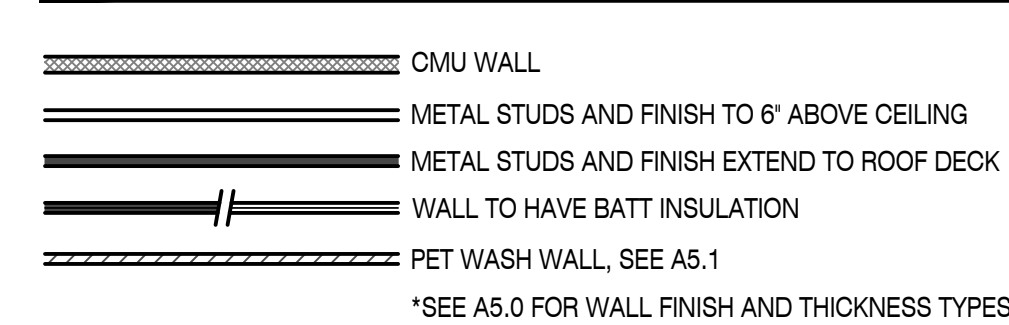
GRAPHIC SYMBOLS



ABBREVIATIONS

ABV: ABOVE	GALV: GALVANIZED
ACT: ACOUSTICAL CEILING TILE	GC: GENERAL CONTRACTOR
ADA: AMERICANS WITH DISABILITIES ACT	GD: GRADE
ADJ: ADJACENT	GYP: GYPSUM BOARD
AFF: ABOVE FINISH FLOOR	HC: ACCESSIBLE
ALUM: ALUMINUM	HGT: HEIGHT
APPROX: APPROXIMATE	HM: HOLLOW METAL
BLDG: BUILDING	HT: HEIGHT
BRG: BEARING	HVAC: HEATING, VENTILATING & AIR CONDITIONING
BRK: BRICK	
BTM: BOTTOM	HWY: HIGHWAY
CER: CERAMIC	MTD: MOUNTED
CL: CENTER LINE	OC: ON CENTER
CLG: CEILING	PL: PROPERTY LINE
CML: CONCRETE MASONRY UNIT	PLYWD: PLYWOOD
C.O.: CASSED OPENING	PP: POWER POLE
CO: CLEANOUT	PR: PAIR
CONC: CONCRETE	PSI: POUNDS PER SQUARE INCH
COOR: CORRIDOR	PT: PAINT
CT: CERAMIC TILE	PTD: PAINTED
D.F.: DRINKING FOUNTAIN	PVMT: PAVEMENT
DIA: DIAMETER	RAD: RADIUS
DIM: DIMENSION	RCP: REFLECTED CEILING PLAN
DWG: DRAWING	REQ: REQUIRED
EIPS: EXTERIOR INSULATION & FINISH SYSTEM	ROW: RIGHT OF WAY
INSUL: INSULATION	SAN: SANITARY
JAN: JANITOR	SCHED: SCHEDULE
MECA: MECHANICAL	SPECS: SPECIFICATIONS
MFG: MANUFACTURER	SQ: SQUARE
MH: MANHOLE	STD: STANDARD
MO: MASONRY OPENING	STRUCT: STRUCTURAL
EJ: EXPANSION JOINT	TRANS: TRANSFORMER
FD: FIRE DEPARTMENT	VCT: VINYL COMPOSITION TILE
FFE: FINISH FLOOR ELEVATION	VEST: VESTIBULE
FH: FIRE HYDRANT	W: WITH
FIN: FINISH	W/O: WITHOUT
FLR: FLOOR	WD: WOOD
FRP: FIBERGLASS REINFORCED PANEL	WH: WATER HEATER
FT: FEET	WWF: WELDED WIRE FABRIC
FTG: FOOTING	YD: YARD

WALL TYPES



PROJECT SUMMARY

TRACTOR SUPPLY COMPANY IS A RETAILER TARGETING THE HOBBY FARMER. ITEMS SOLD AT TSC INCLUDE CLOTHING, FENCING, HARDWARE, BIRD FEED AND EQUINE PRODUCTS.

DRAWING INDEX

ISSUED FOR CONSTRUCTION	
03.22.2024	
COVER SHEET	
CIVIL	
ARCHITECTURAL	
AS1.0	SITE PLAN
AS1.1	SITE DETAILS
A0.0	TENANT CRITERIA & VENDOR INFORMATION
A0.1	DOOR & FINISH SCHEDULES
A0.2	ACCESSIBILITY STANDARDS
A0.3	APPENDIX B
A1.0	ARCHITECTURAL FLOOR PLAN
A2.0	ARCHITECTURAL ELEVATIONS
A3.0	REFLECTED CEILING PLAN
A4.0	SECTIONS & DETAILS
A4.1	SECTIONS & DETAILS
A5.0	INTERIOR PLANS, ELEVATIONS, & DETAILS
A5.1	PET WASH PLAN, ELEVATIONS, & DETAILS
A5.2	INTERIOR ELEVATIONS
A6.0	RECEIVING / SERVICE COUNTER DETAILS
A7.0	ROOF PLAN
A7.1	ROOF SPECIFICATIONS
A8.0	LIFE SAFETY / FIXTURE PLAN
STRUCTURAL	
S1.0	FOUNDATION PLAN
S2.0	ROOF FRAMING PLAN
S2.1	ROOF FRAMING PLAN, CONT.
S3.0	DETAILS
S4.0	DETAILS
S4.1	DETAILS
S4.2	DETAILS
S4.3	DETAILS
S5.0	STRUCTURAL GENERAL NOTES
S5.1	STRUCTURAL GENERAL NOTES, CONT.
S5.2	QUALITY ASSURANCE AND SPECIAL INSPECTIONS
S5.3	QUALITY ASSURANCE AND SPECIAL INSPECTIONS CONT.
S5.4	CONCRETE SPECIFICATIONS
MECHANICAL	
M1.0	MECHANICAL FLOOR PLAN
M2.0	MECHANICAL SCHEDULES, DETAILS AND SPECIFICATIONS
PLUMBING	
P1.0	PLUMBING FLOOR PLAN
P2.0	PLUMBING SCHEDULES AND DETAILS
P3.0	PLUMBING RISERS AND SPECIFICATIONS
FIRE PROTECTION	
FP1.0	FIRE PROTECTION PLAN
ELECTRICAL	
ES1.0	ELECTRICAL SITE PLAN
E1.0	GENERAL LIGHTING PLAN
E2.0	GENERAL POWER PLAN
E3.1	ELECTRICAL SYSTEM / VENDOR DETAILS
E3.2	ELECTRICAL SYSTEM / VENDOR DETAILS
E4.0	ELECTRICAL LEGEND AND DETAILS
ES.0	SYSTEM FLOOR PLAN
E5.1	SYSTEM FLOOR NOTES

VICINITY MAP



PROJECT DATA

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

- 2018 NORTH CAROLINA BUILDING CODE
- 2018 NORTH CAROLINA PLUMBING CODE
- 2018 NORTH CAROLINA MECHANICAL CODE
- 2020 NATIONAL ELECTRIC CODE
- 2018 NORTH CAROLINA FIRE CODE
- 2018 NORTH CAROLINA ENERGY CODE
- 2018 NORTH CAROLINA GAS CODE

OCCUPANCY CLASSIFICATION M / S-1 - NON-SEPARATED MIXED USE

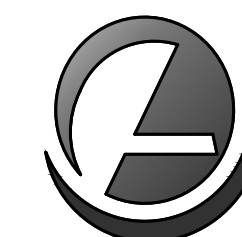
CONSTRUCTION TYPE IIB

FIRE SUPPRESSION SPRINKLERED

BUILDING AREA LIMITS	OCCUPANCY LOAD
VESTIBULE = 228 SQ. FT. / 60	= 3.80 OR 4
RETAIL SALES = 15,416 SQ. FT. / 60	= 256.9 OR 257
OFFICE CORE & WALLS = 1,341 SQ. FT. / 150	= 8.94 OR 9
STOCKROOM = 4,949 SQ. FT. / 300	= 16.48 OR 17
TOTAL BUILDING AREA = 21,930 SQ. FT.	
TOTAL OCCUPANT LOAD =	= 287

BUILDING HEIGHT: 1 STORY - 21'-4" A.F.F. @ FRONT MASONRY WALL, 30'-8" @ GABLE FACADE

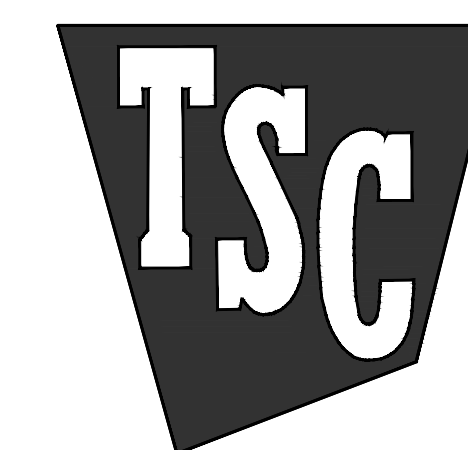
ALLOWABLE AREA CALCULATIONS: $A_b = A_1 + [A_2 \times (F)] + [A_3 \times (F)]$
 $A_b = 12,500 + [12,500 \times 0] + [12,500 \times 2]$
 $A_b = 12,500 + [0] + [37,500]$
 $A_b = 50,000$ SQ. FT.
 $A_b = 50,000$ SQ. FT. > 21,930 SQ. FT.



GLEN P. OXFORD ARCHITECT

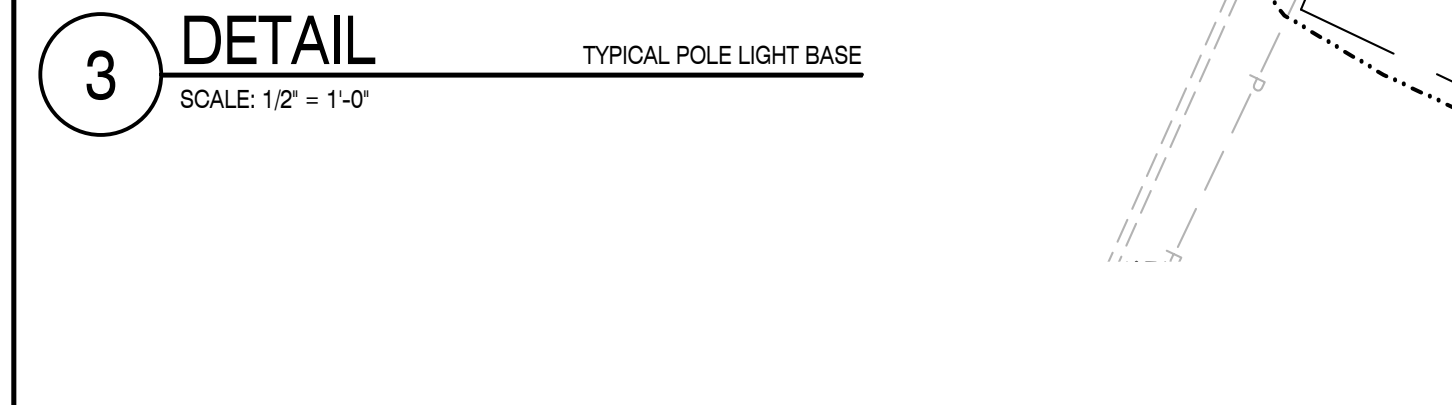
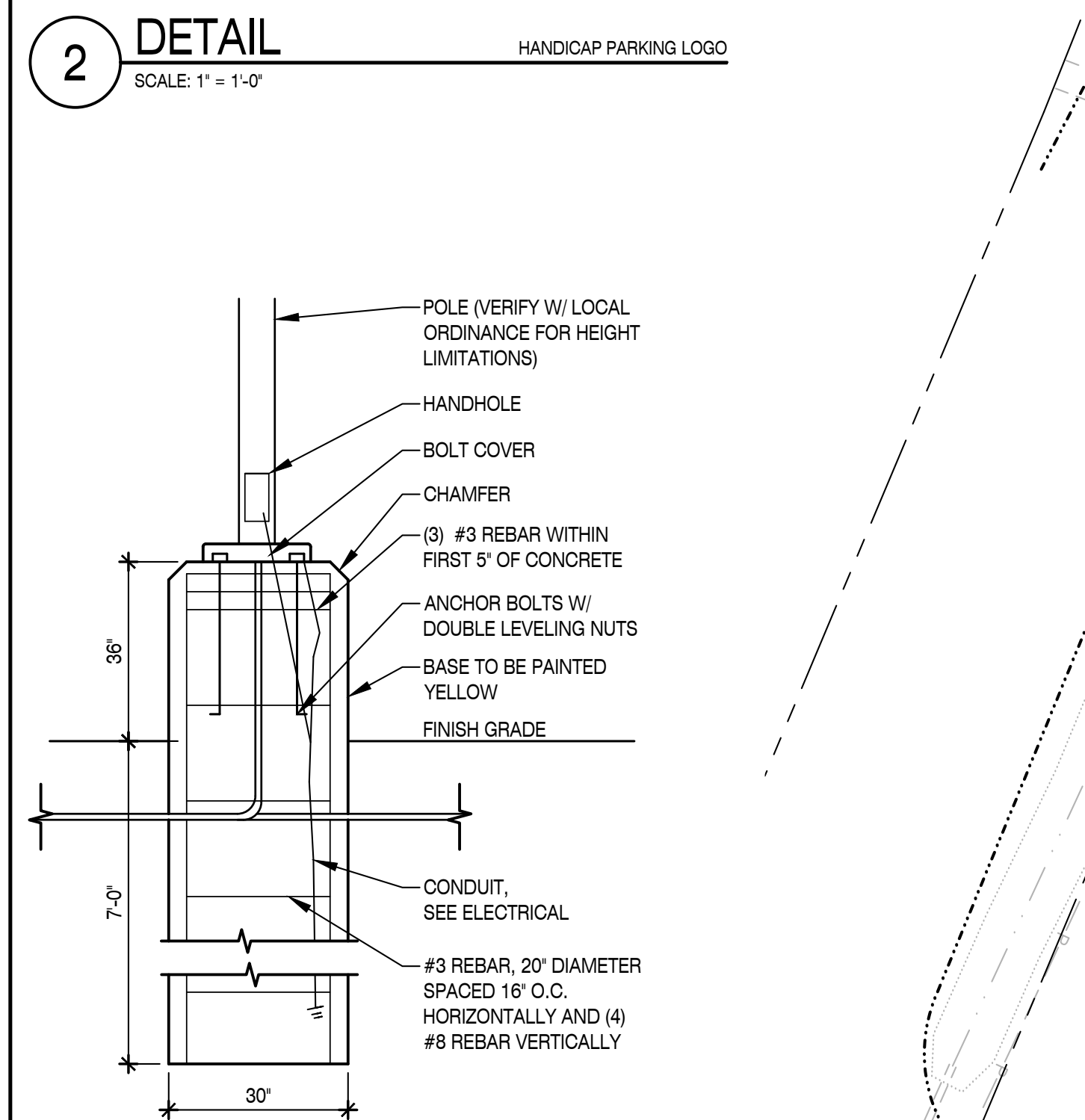
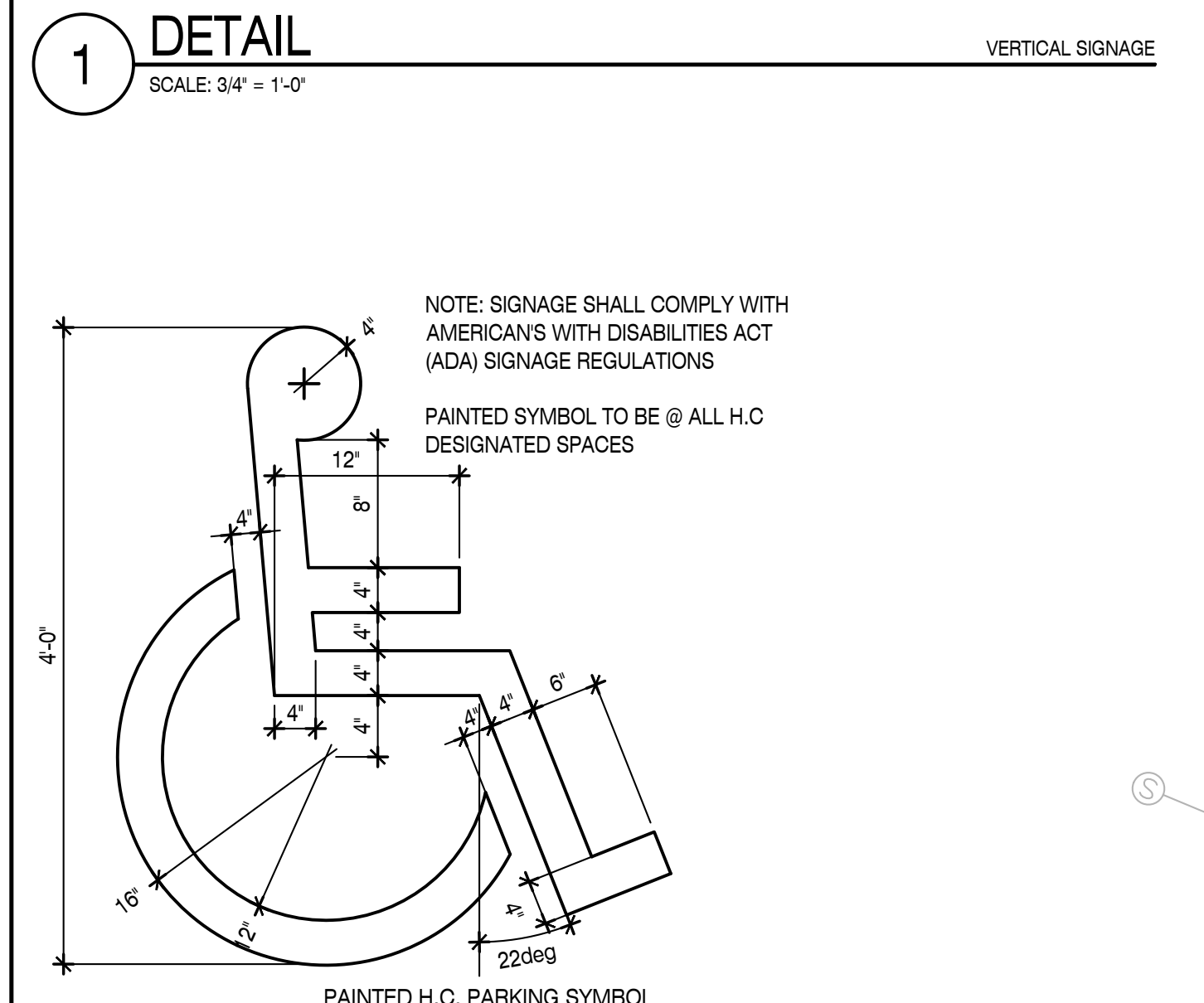
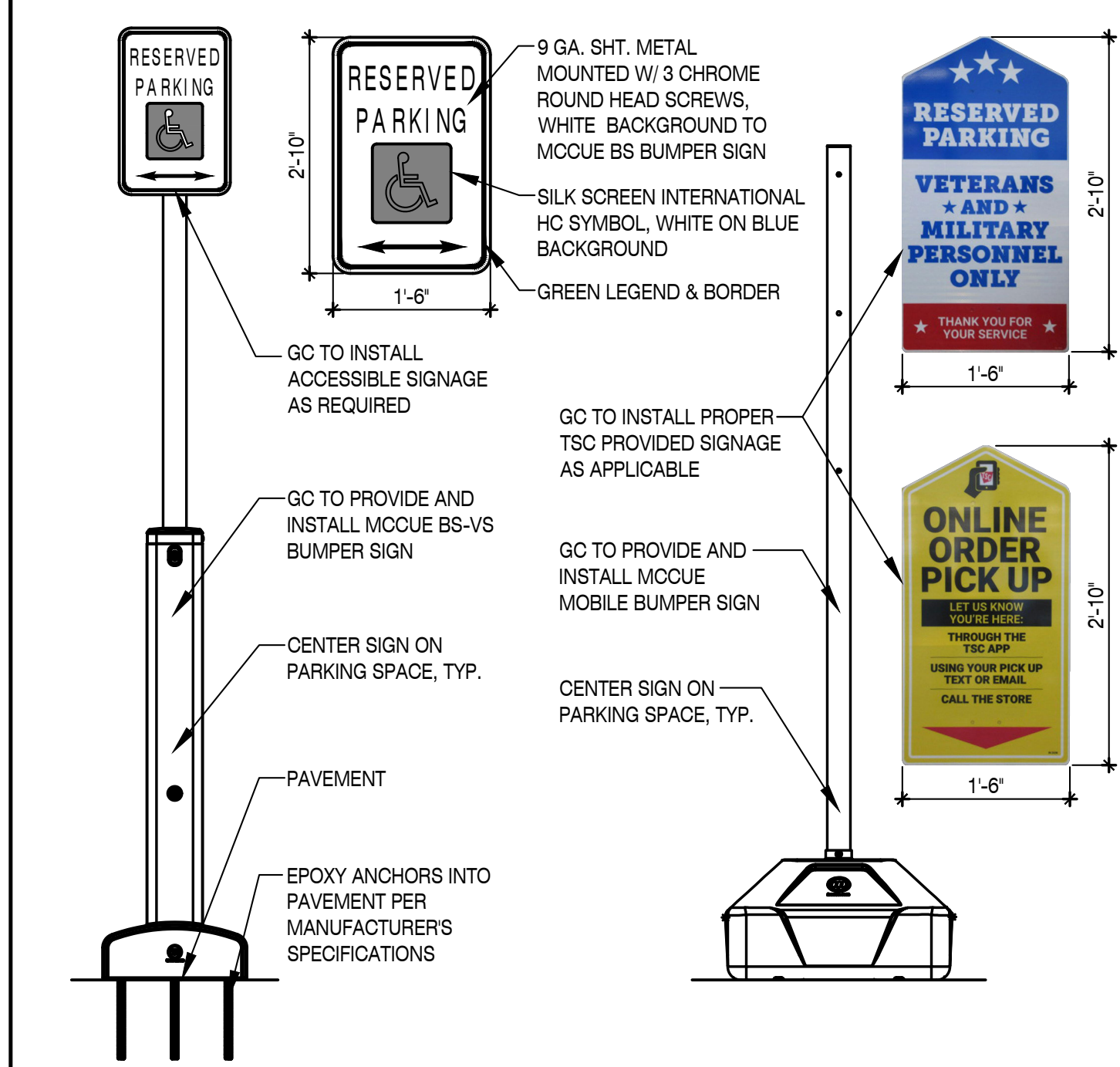
2934 Sidco Drive
Suite 120
Nashville, TN 37204

Architecture
Planning
Interior Architecture



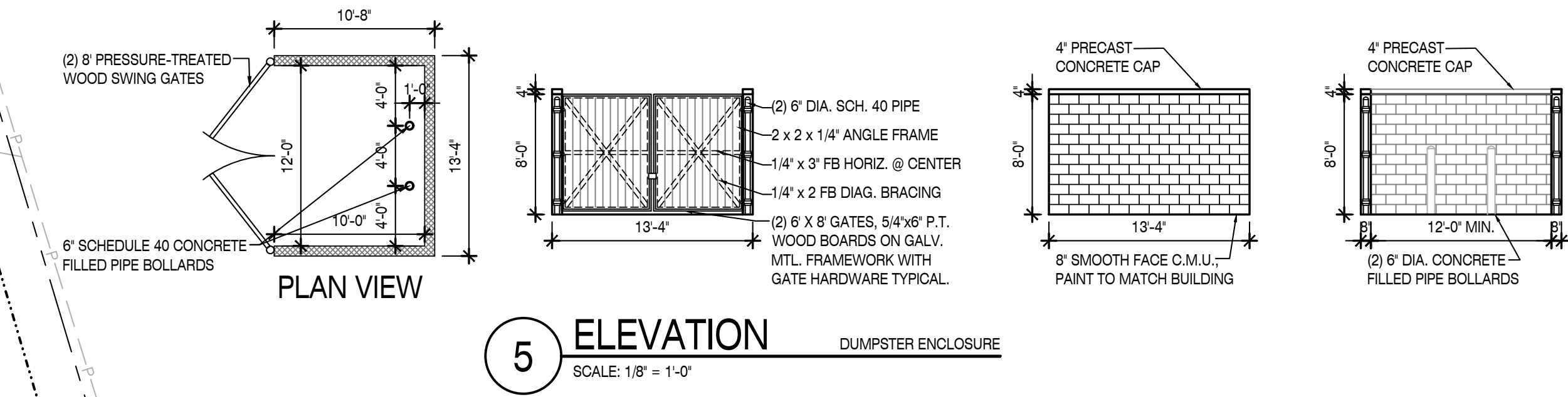
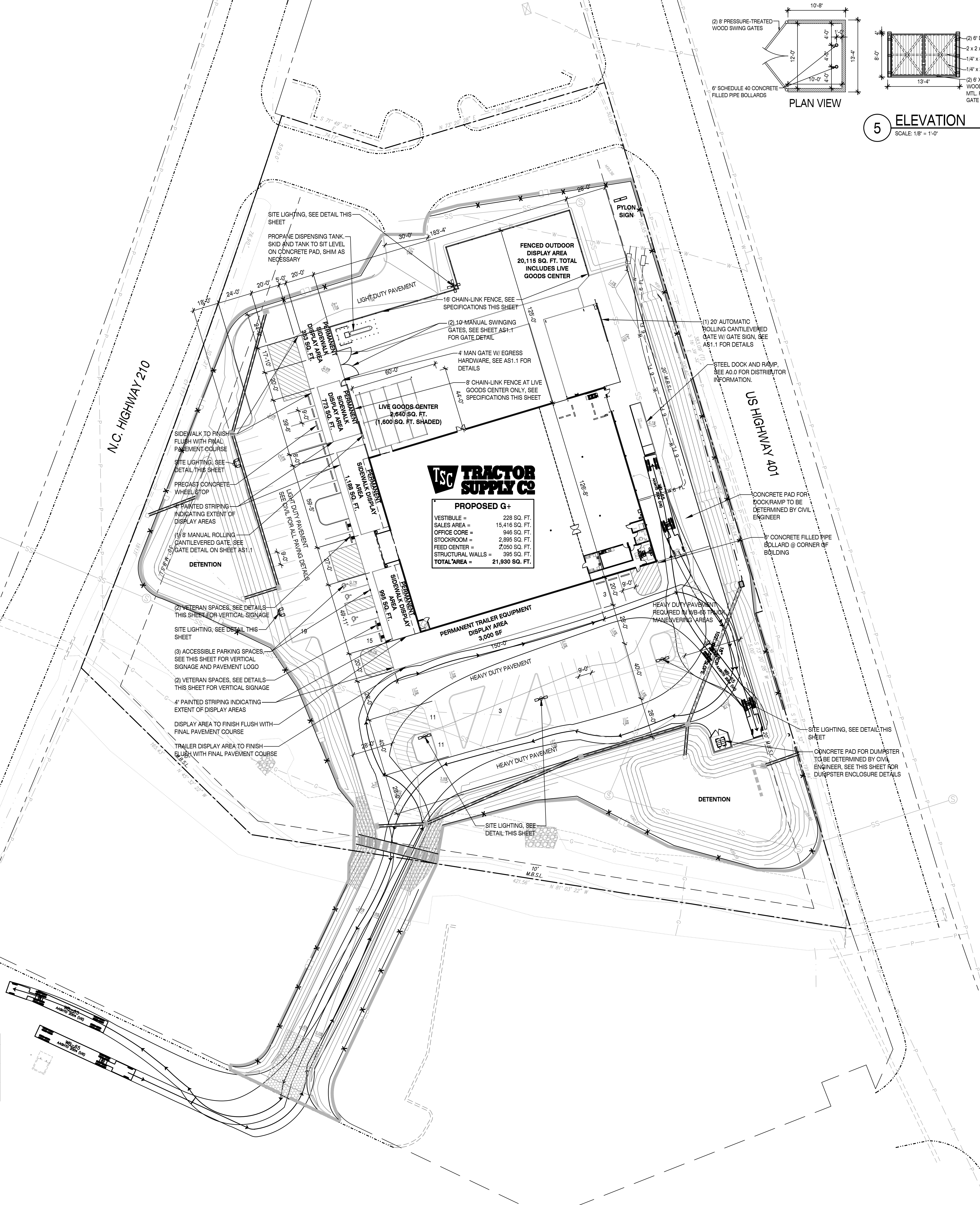
TRACTOR SUPPLY COMPANY

LILLINGTON
NORTH CAROLINA



TSC ID AND SIGN DESCRIPTION	MOUNTING LOCATION	SUGGESTED MOUNTING METHOD
G6 - POLE SIGN: FEED, FENCING & MORE (18" X 24")	RIGHT SIDE OF FEED ROOM OVERHEAD DOOR	ON 2.5" DIA. GALVANIZED METAL POLE USING U-BOLTS
G7 - POLE SIGN: EXIT SIGN (18" X 24")	LEFT SIDE OF REAR DRIVE THRU FENCE GATE	ON 2.5" DIA. GALVANIZED METAL POLE USING U-BOLTS
TFS - GATE SIGN: THANKS FOR SHOPPING (39" X 21")	ON FRONT SIDE OF REAR DRIVE THRU FENCE GATE	YUNKER WILL SEND A UHOOK FOR INSTALLATION

*CONFIRM EXACT LOCATION WITH FINAL FIXTURE PLAN

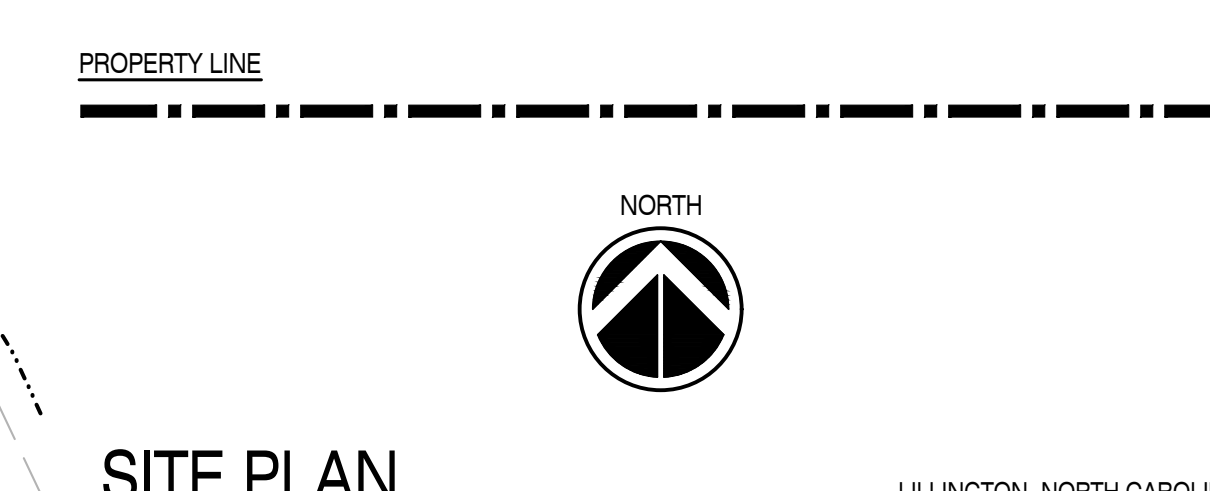


- SITE STRIPING GUIDELINES:**
- STRIPING ON CONCRETE TO BE YELLOW.
 - STRIPING ON ASPHALT TO BE WHITE.
- FENCED OUTDOOR DISPLAY AREA FIXTURE INSTALLATION GUIDELINES:**
- CONTRACTOR TO VERIFY WITH THE STORE MANAGER THAT ALL RACKS ARE PROPERLY BUILT AND POSITIONED.
 - DRILL HOLES FOR ANCHORING RACK. GENERALLY THE HOLE IN THE FOOT OF THE RACK IS 1/2" IN DIAMETER. HOWEVER, THIS MAY VARY. GENERAL CONTRACTOR IS TO DETERMINE IN THE FIELD THE MOST APPROPRIATE SIZE REQUIRED TO ANCHOR RACKS.
 - RACKS ARE TO BE SECURELY ANCHORED W/ ANCHOR BOLTS IN EVERY AVAILABLE HOLE.
 - FOLLOWING INSTALLATION, REMOVE ANY RESIDUAL DEBRIS AND CLEAN AREA.
- PARKING LOT PAINT SPECIFICATIONS - 15 MIL. APPLICATION (0.015 INCH THICKNESS):**
- NEW PAVEMENT SURFACE TO CURE FOR A PERIOD OF NOT LESS THAN 14 DAYS BEFORE APPLICATION OF MARKING MATERIALS.
 - REMOVE ALL DIRT, GRAVEL, DEBRIS, VEGETATION, OR OTHER MISCELLANEOUS OBJECTS FROM THE SURFACE WITH A BROOM TRUCK OR EQUIVALENT RIGOROUS METHOD. PROVIDE A CLEAN, DUST-FREE AND COMPLETELY DRY SURFACE FOR PAINT APPLICATION. DO NOT APPLY PAINT OVER EXISTING TAPE MARKINGS.
 - CONFIRM & RECORD PROPER AIR AND SURFACE TEMPERATURES OF 55° AND RISING AND LESS THAN 95°. IF THE SURFACE TEMPERATURE IS NOT WITH THE TEMPERATURE RANGE OR IF THE PAINT APPLICATION IS DONE UNDER ADVERSE CONDITIONS (AS DETERMINED BY THE CONSTRUCTION PROJECT MANAGER) SUCH AS ABOVE 75% HUMIDITY, NIGHT STRIPING, ETC. IN ORDER TO MEET TSC OPENING SCHEDULE, CONTRACTOR TO RE-SCHEDULE AND COMPLETE SURFACE STRIPING UNDER PROPER CONDITIONS A MINIMUM OF 30 DAYS PRIOR TO THE EXPIRATION OF THE (1) ONE YEAR CONSTRUCTION WARRANTY.
 - PROVIDE A 1" (1) ONE YEAR CONSTRUCTION WARRANTY.
 - PROVIDE A 1" THICK 4" WIDE CONTINUOUS STRIPE WHERE INDICATED. MINIMUM OF (2) TWO COATS.
 - PROVIDE PRIMER AND SEALER TO BE APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS ON ALL CONCRETE SURFACES AND ON ASPHALT SURFACES THAT ARE MORE THAN TWO YEARS OLD, OXIDIZED AND/OR HAVE AGGREGATE EXPOSED.

- 8' HIGH CHAIN LINK FENCE SPECIFICATIONS:**
- FABRIC: 36" 9 GA. GALVANIZED 12" MESH CHAIN LINK FABRIC.
 - TOP & BOTTOM RAIL: 1 5/8" O.D. FULL WEIGHT PIPE, 2.27 LBS. PER FOOT (MIN), TOP RAIL TO BE JOINED WITH 1 5/8" SLEEVE. BOTTOM RAIL @ 18" ABV. GRADE.
 - LINE POST: 2 1/2" O.D. FULL WEIGHT PIPE, 3.65 LBS. PER FOOT (MIN), LINE POST TO BE SET 10" ON CENTER MAX. SPACING. CONCRETE FOOTING TO BE 8" DIA. BY 30" DEEP CONC.
 - TERMINAL POST: 3" O.D. FULL WEIGHT PIPE, 5.79 LBS. PER FOOT (MIN), SET IN 8" DIA. BY 36" DEEP CONC. FOOTING.
 - GATE POST: 4" O.D. FULL WEIGHT PIPE, 9.10 LBS. PER FOOT (MIN), 8" DIA. 36" DEEP CONC. FOOTING.
 - (5) GATES: (1) 8 FOOT MANUAL ROLLING CANTILEVERED GATE, (2) 10 FOOT MANUAL SWINGING CHAIN LINK GATES, (1) 20 FOOT ROLLING CANTILEVERED CHAIN LINK GATE WITH AUTOMATIC GATE OPERATOR, AND (1) 4 FOOT SWING GATE, WITH FRAMEWORK OF 1 5/8" FULL WEIGHT PIPE, 2.27 LBS. PER FOOT (MIN). GATES BRACED AND TRUSSED AS NECESSARY. SAME FABRIC AS FENCE. SEE PLAN FOR WIDTH.
 - SWING GATES: DESIGN AS PER THE MANUFACTURERS DESIGN STANDARDS. GATES SHALL BE MANUALLY OPERATED.
 - TENSION WIRE: 7 GA. COIL SPRING GALVANIZED TENSION WIRE ATTACHED TO BOTTOM OF FENCE FABRIC WITH 9 GA. ALUM. HOG RING SPACED 24" ON CENTER.
 - FITTINGS: HEAVY BRACED BAND AND CARRIAGE BOLT, PRESSED STEEL RAIL-END, PRESSED STEEL LOOP CAP, PRESSED STEEL CAP, 1/4" X 3/4" TENSION BAR, HEAVY TENSION BAND AND CARRIAGE BOLT.
 - TIE WIRE: 8 1/4" 12 GA. STEEL TIE WIRE AND 6 1/2" 12 GA. STEEL WIRE SPACED 15" ON CENTER FOR LINE POST AND 24" ON CENTER FOR RAILS.
 - POST FOOTING: TRUCK POURED CONCRETE.
 - SWING GATE LATCH TO BE CHAIN LINK FENCE-LOC TM BY HOOVER FENCE CO. OR EQUAL.
- 16' HIGH CHAIN LINK FENCE SPECIFICATIONS:**
- FABRIC: 192" 9 GA. GALVANIZED 12" MESH CHAIN LINK FABRIC.
 - TOP & BOTTOM RAIL: 1 5/8" O.D. FULL WEIGHT PIPE, 2.27 LBS. PER FOOT (MIN), TOP RAIL TO BE JOINED WITH 1 5/8" SLEEVE. BOTTOM RAIL @ 18" ABV. GRADE. THE MAXIMUM SPACING OF INTERMEDIATE HORIZONTAL RAILS TO BE 48" MAX.
 - LINE, GATE, AND TERMINAL POSTS: 4" O.D. X 1/4" WALL THICKNESS (MIN), LINE POST TO BE SET 10'-0" O.C. MAX. SPACING. CONCRETE FOOTING TO BE 8" DIA. X 60" DEEP CONC.
 - TENSION WIRE: 7 GA. COIL SPRING GALVANIZED TENSION WIRE ATTACHED TO BOTTOM OF FENCE FABRIC WITH 9 GA. ALUM. HOG RING SPACED 24" ON CENTER.
 - FITTINGS: HEAVY BRACED BAND AND CARRIAGE BOLT, PRESSED STEEL RAIL-END, PRESSED STEEL LOOP CAP, PRESSED STEEL CAP, 1/4" X 3/4" TENSION BAR, HEAVY TENSION BAND AND CARRIAGE BOLT.
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 - POST FOOTING: TRUCK POURED CONCRETE.

- LANDSCAPING NOTES:**
- LANDSCAPE AND IRRIGATION DESIGN PLANS ARE REQUIRED ON ALL PROJECTS. IF LANDSCAPING IS NOT REQUIRED CONTRACTOR SHALL PROVIDE SITE FINE GRADED W/ HYDRO SEEDING OR SOD IN ALL DISTURBED AREAS OUTSIDE OF PARKING FIELD. IN PARKING FIELD ISLANDS, IF ALLOWED USE WEED BARRIER & MULCH ONLY. ALL MULCHED AREAS TO RECEIVE WEED BARRIER, WHERE SEEDING WARRANTY DOES NOT PERMIT HYDRO SEED ALONE. PROVIDE STRAW AND BIODEGRADABLE NETTING OVER HYDRO SEED. TSC TO APPROVE LANDSCAPE CONCEPT PRIOR TO SUBMISSION TO CITY / TOWNSHIP. IRRIGATION SYSTEM TO BE DESIGN BUILD. SEE SHEET A0.0 FOR IRRIGATION MAP. ANY LANDSCAPE IN EXCESS OF 50 PLANTINGS TO RECEIVE IRRIGATION AS NEEDED REGARDLESS OF GEOGRAPHIC LOCATION. IRRIGATION HEADS TO BE A MINIMUM OF 3' FROM EDGE OF CURB LINE. ALL LANDSCAPE BEDS TO HAVE CUT EDGE OR COMMERCIAL EDGING MATERIAL INSTALLED FULLY SEPARATING THE MULCH BED FROM ADJACENT LAWN AREA. ANY TREES OVER 2" CALIPER MUST BE STAKED AND TIED.

- GENERAL SITE NOTES:**
- VERIFY ALL UTILITY LOCATIONS ON SITE.
 - SEE CIVIL FOR ALL SITE WORK.



Job Number: 2360

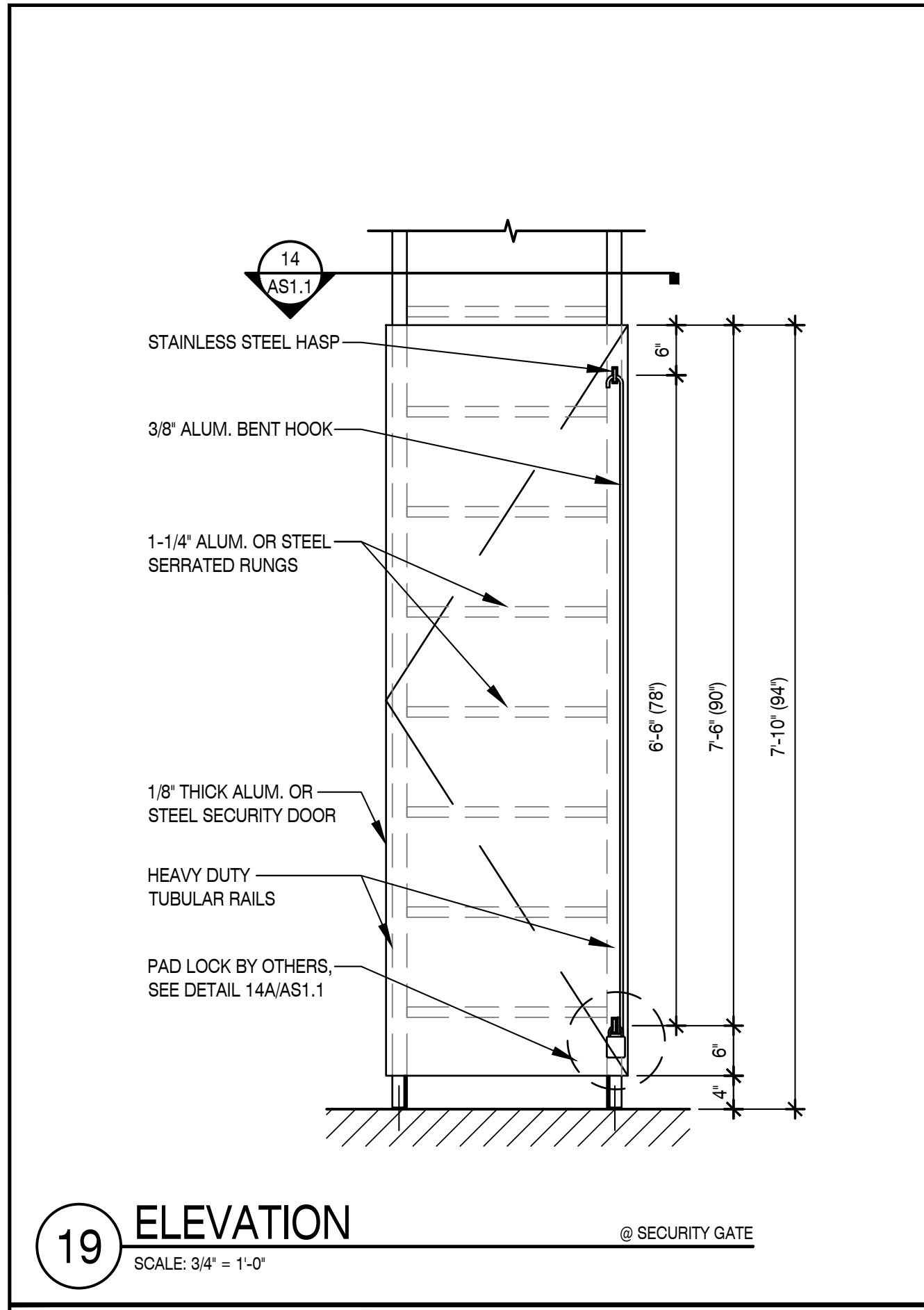
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Revisions:

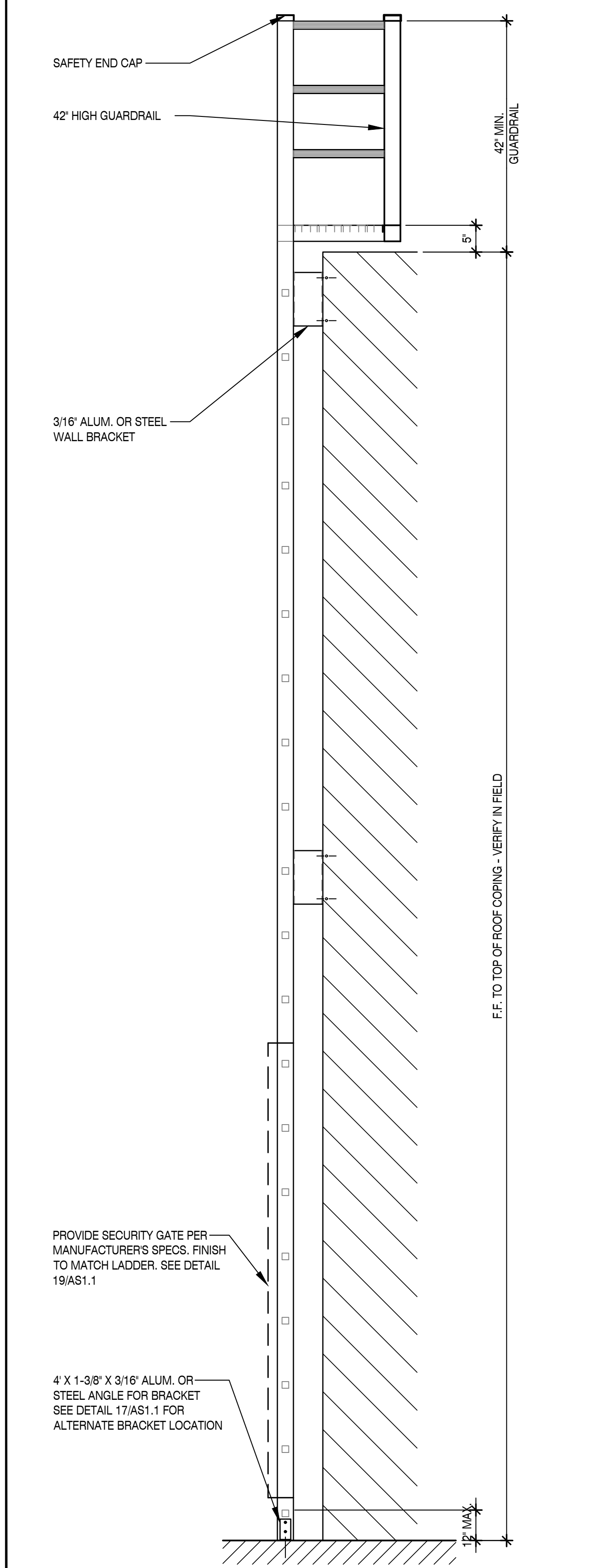
Revisions:

Revisions: SITE PLAN

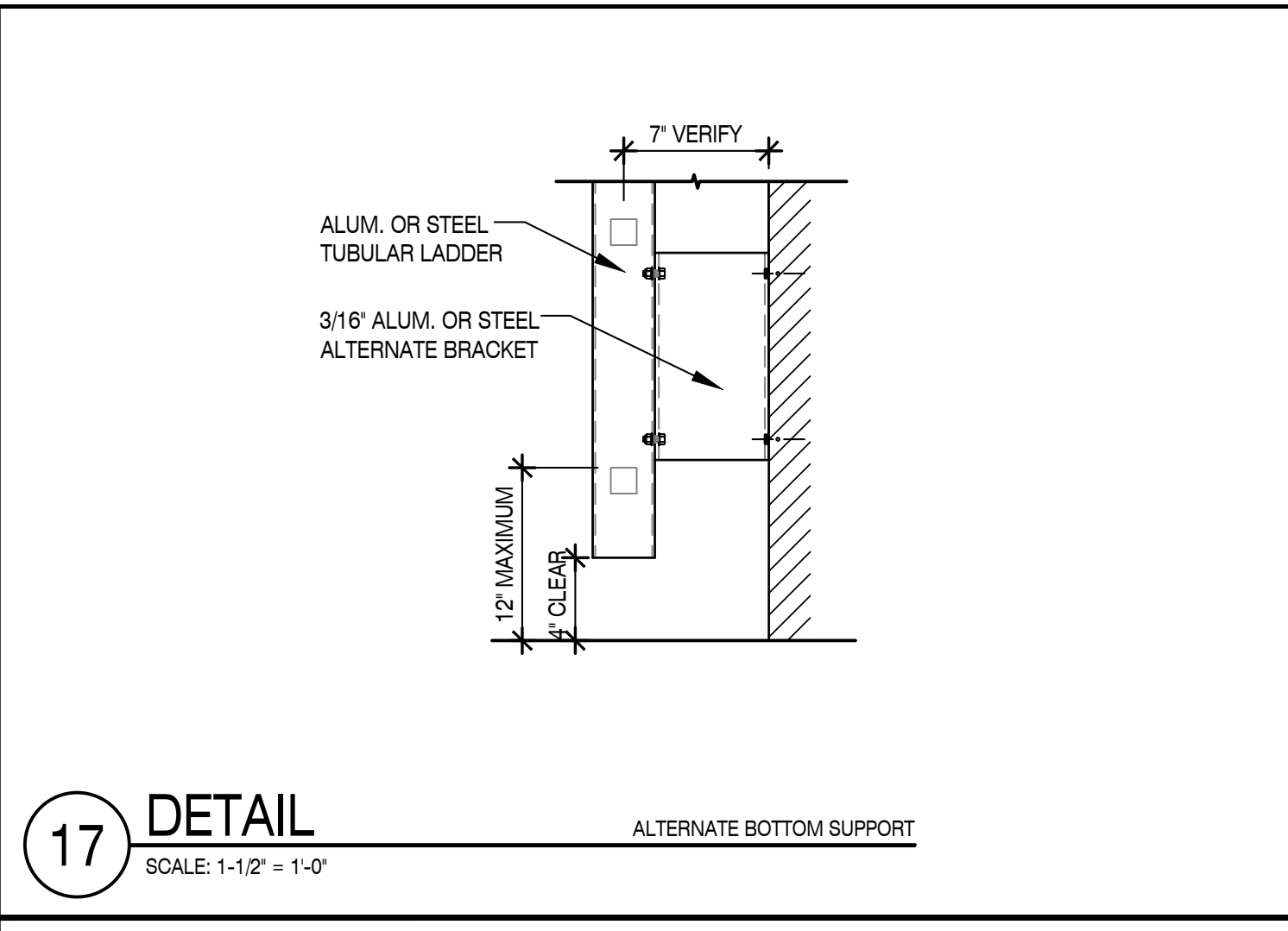
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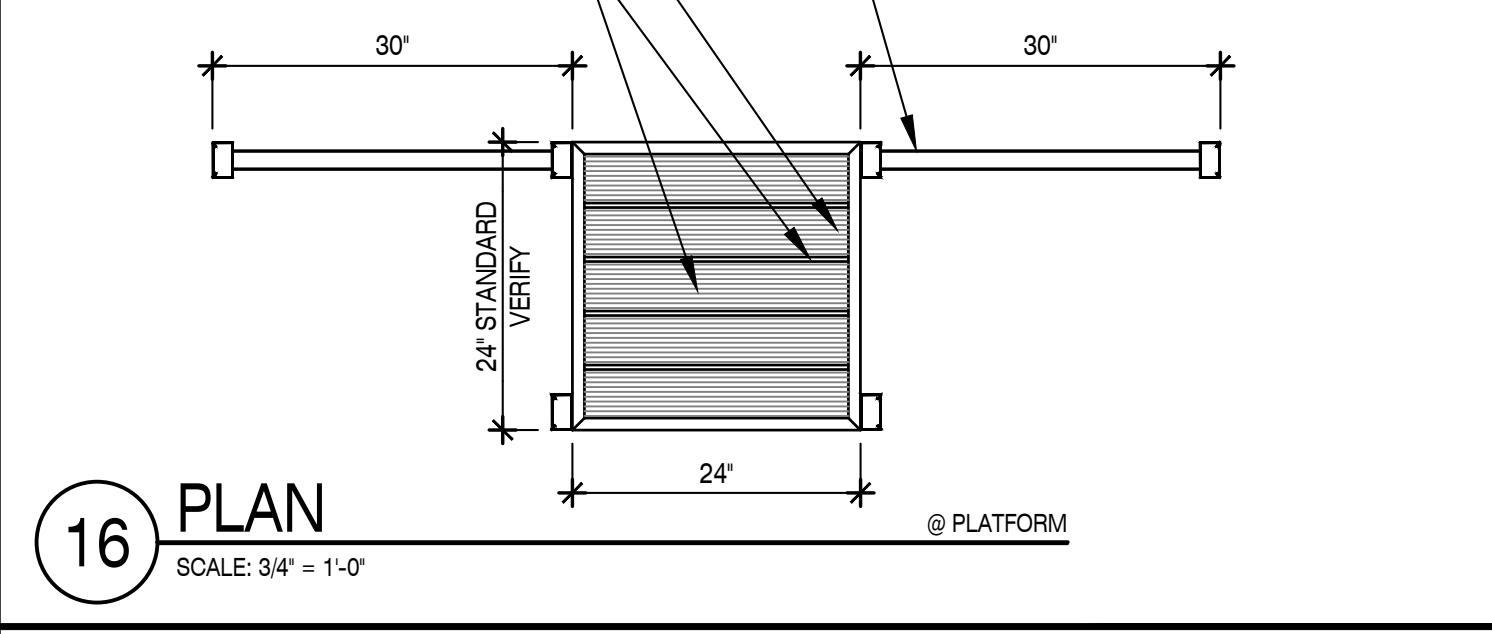
19 ELEVATION
SCALE: 3/4" = 1'-0"
@ SECURITY GATE



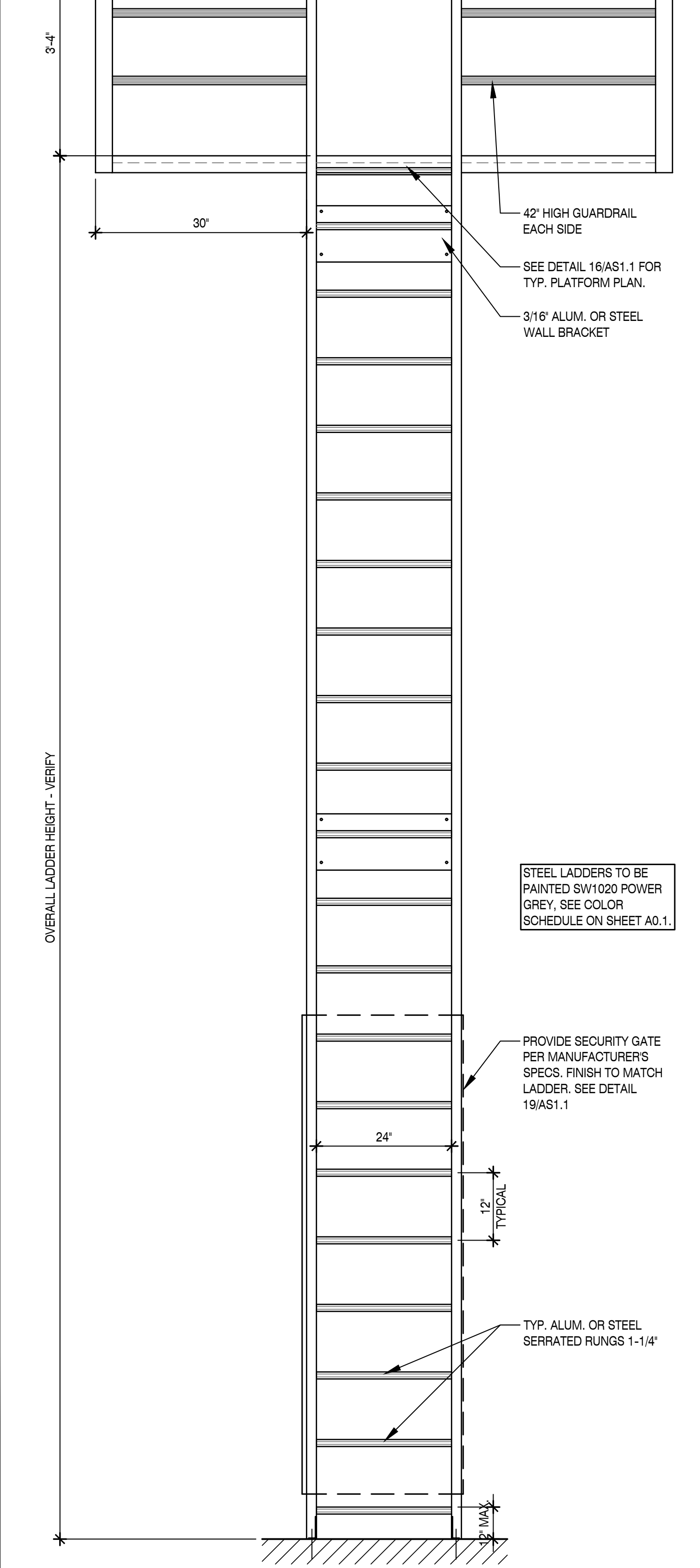
18 ELEVATION
SCALE: 3/4" = 1'-0"
@ ROOF ACCESS LADDER SIDE



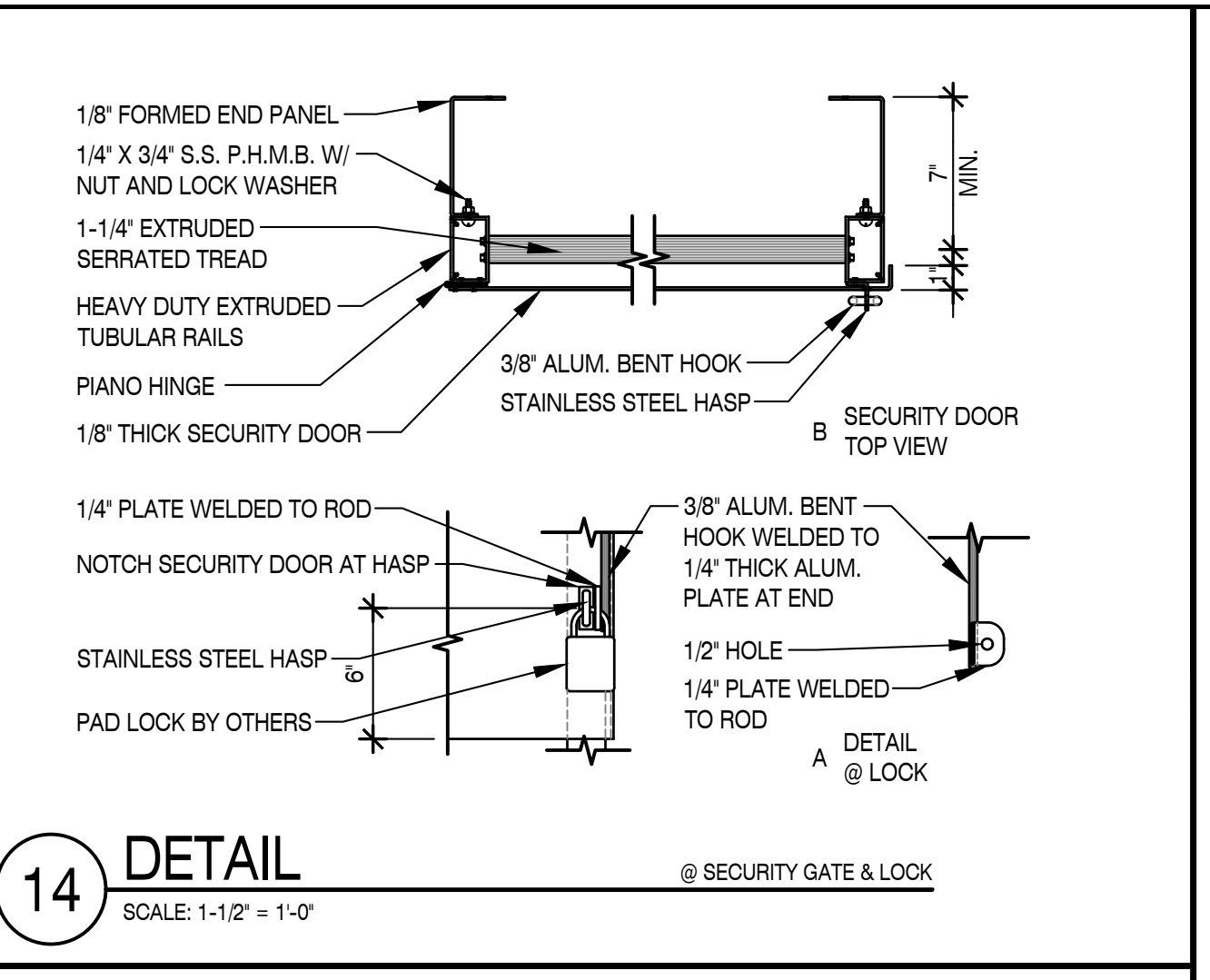
17 DETAIL
SCALE: 1-1/2" = 1'-0"
@ ALTERNATE BOTTOM SUPPORT



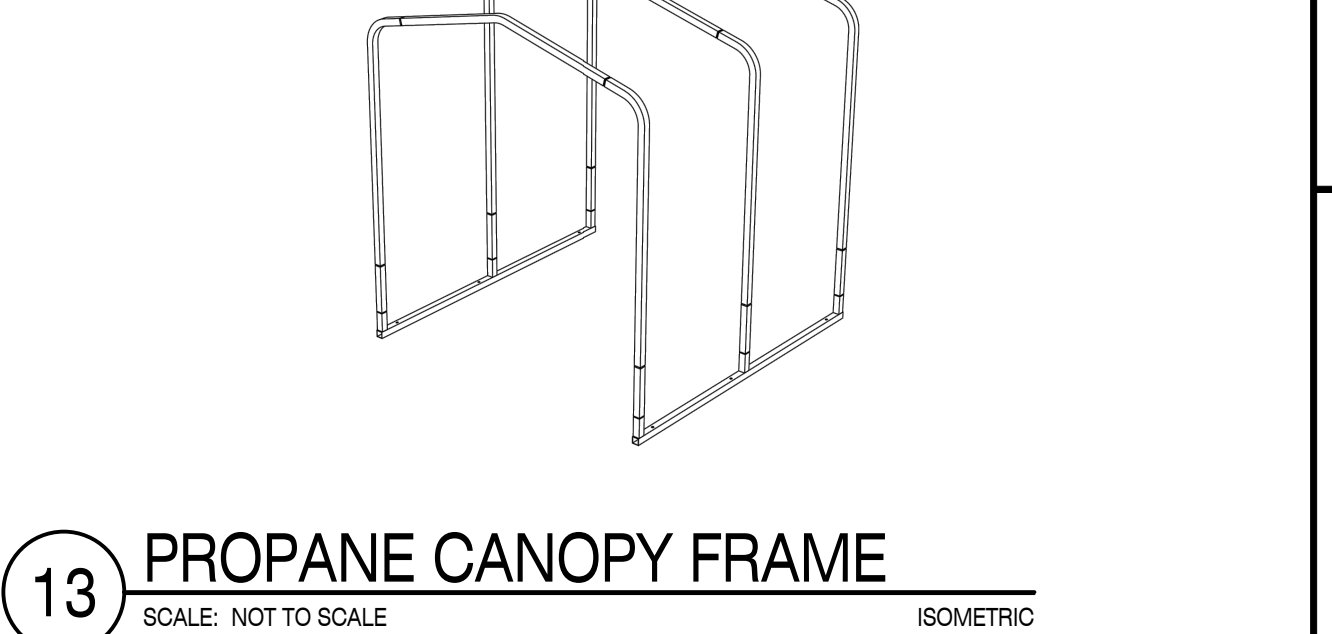
16 PLAN
SCALE: 3/4" = 1'-0"
@ PLATFORM



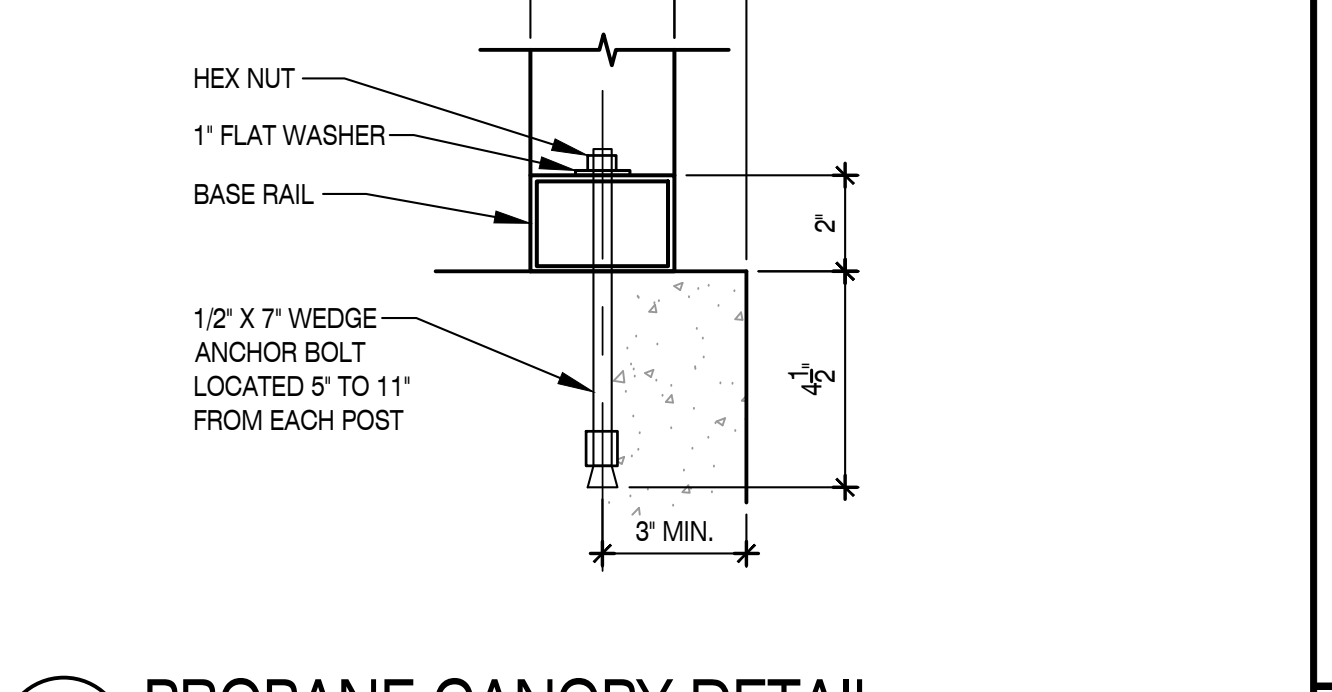
15 ELEVATION
SCALE: 3/4" = 1'-0"
@ ROOF ACCESS LADDER FRONT



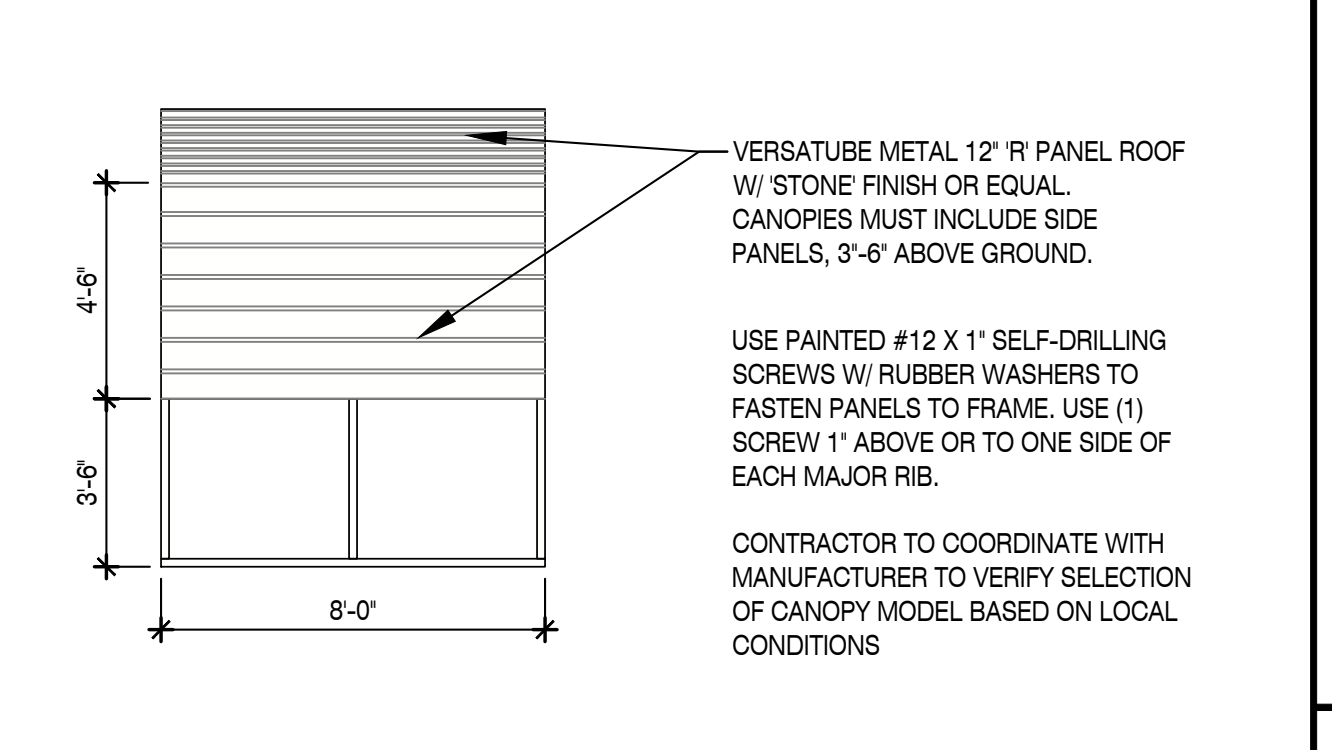
14 DETAIL
SCALE: 1-1/2" = 1'-0"
@ SECURITY GATE & LOCK



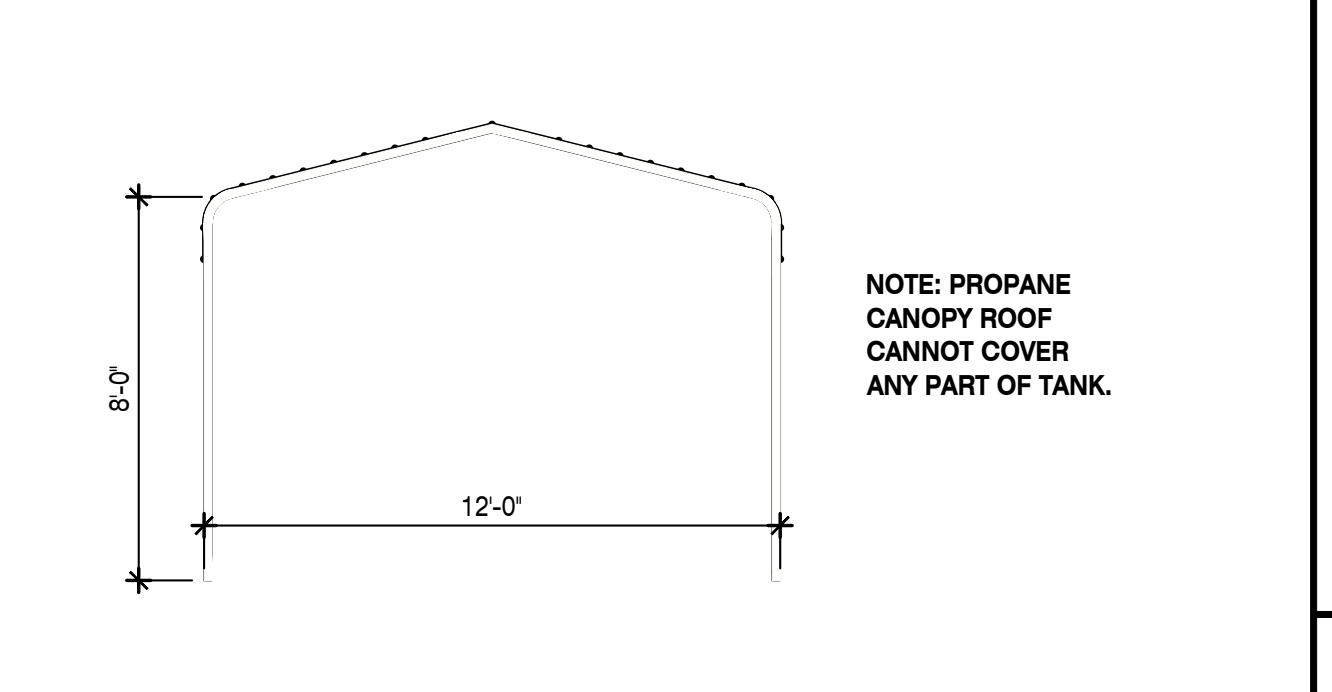
13 PROPANE CANOPY FRAME
SCALE: NOT TO SCALE
ISOMETRIC



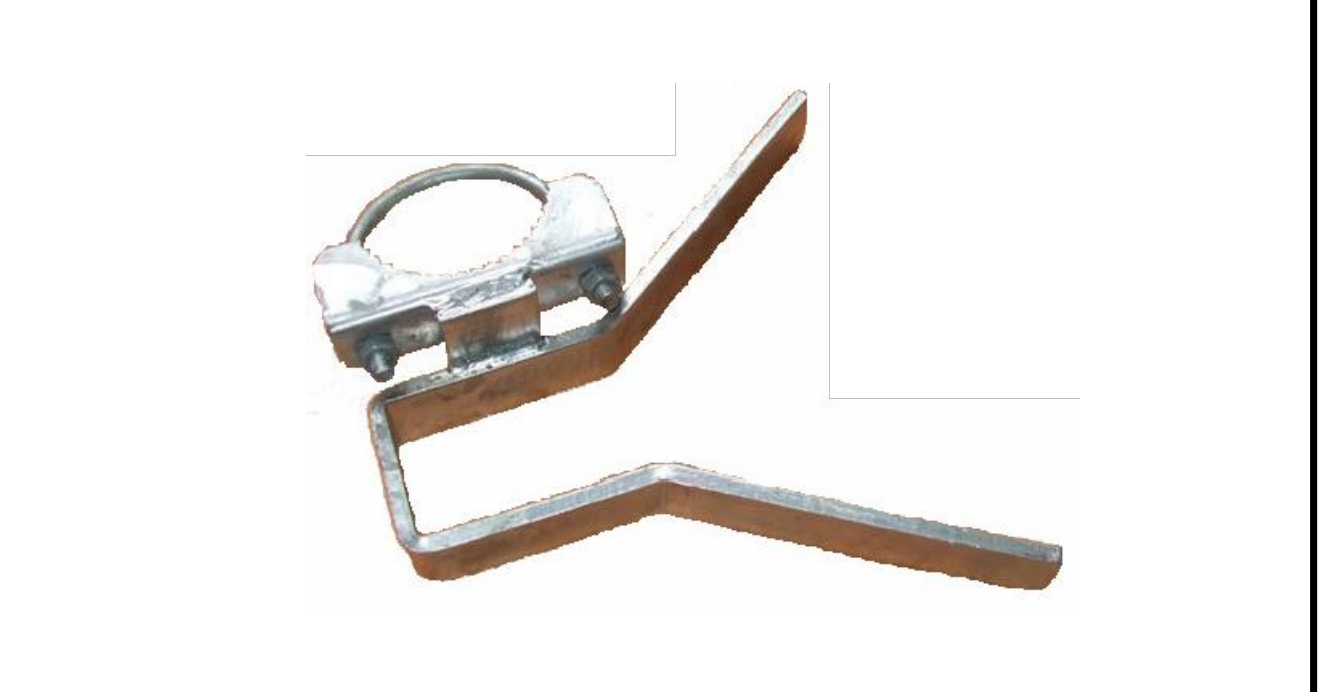
12 PROPANE CANOPY DETAIL
SCALE: 3/4" = 1'-0"
CONNECTION @ CONCRETE



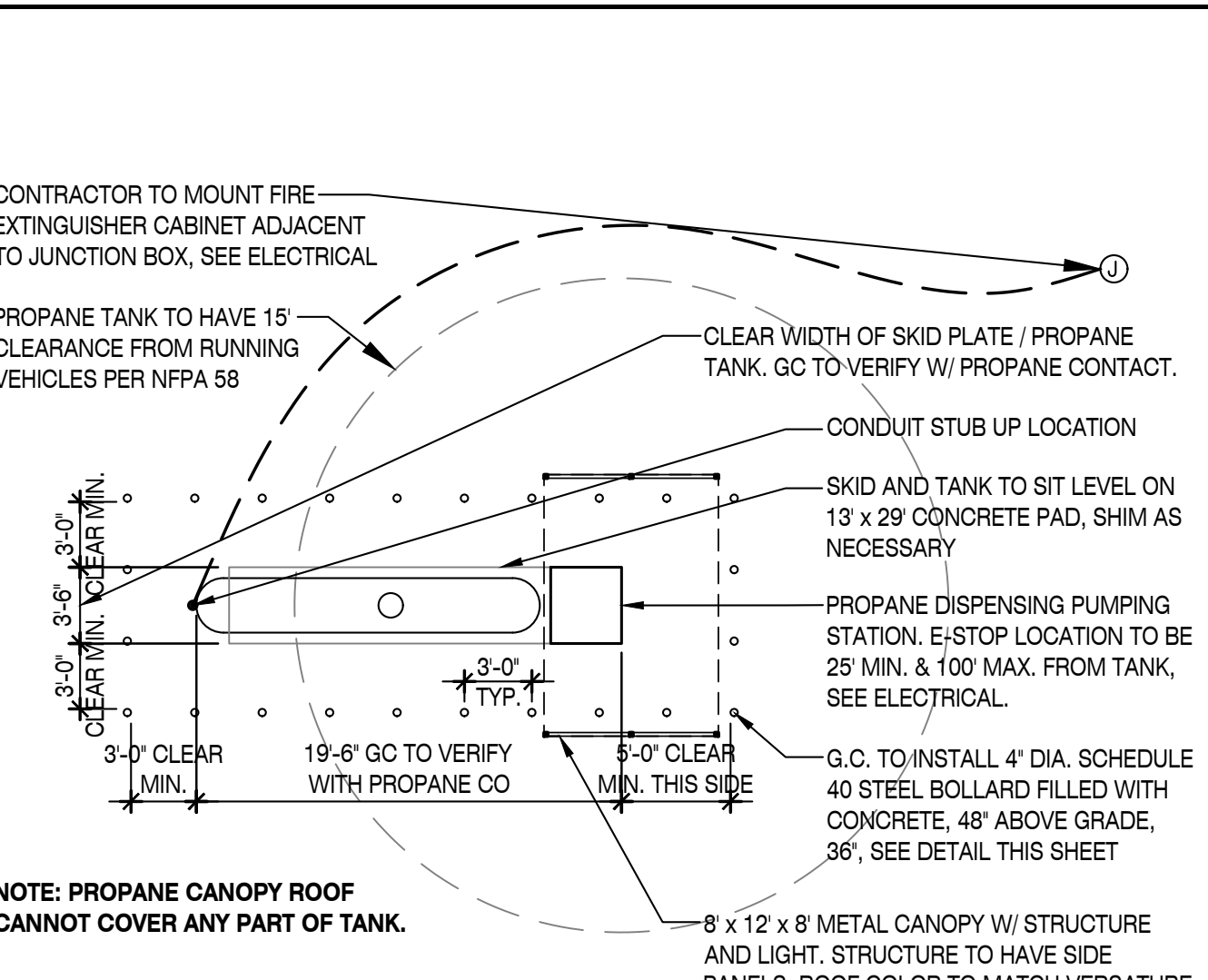
11 PROPANE CANOPY ELEVATION
SCALE: 1/4" = 1'-0"
SIDE



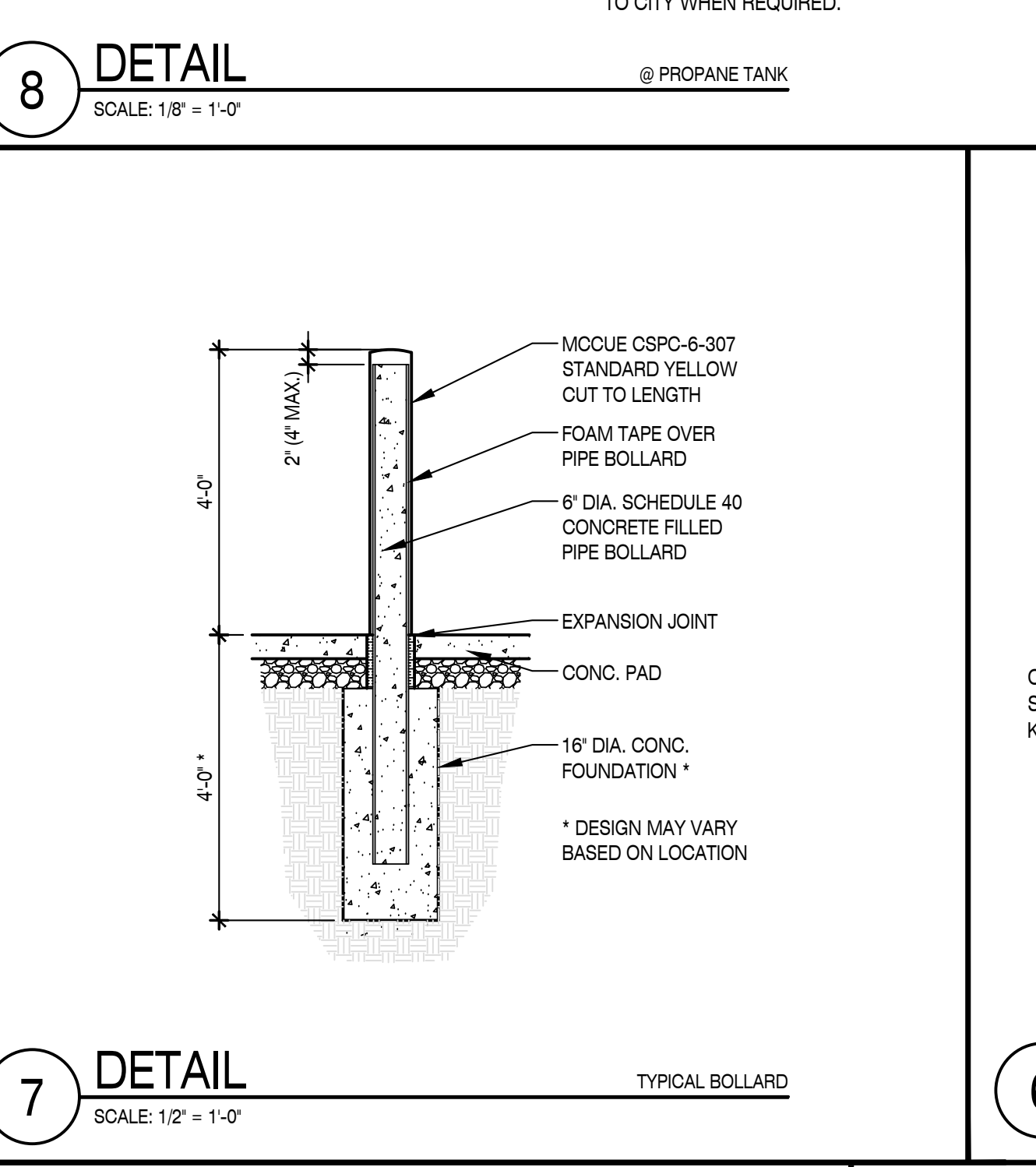
10 PROPANE CANOPY ELEVATION
SCALE: 1/4" = 1'-0"
FRONT



9 DETAIL
SCALE: 1/4" = 1'-0"
RECEIVER



8 DETAIL
SCALE: 1/8" = 1'-0"
@ PROPANE TANK



7 DETAIL
SCALE: 1/2" = 1'-0"
TYPICAL BOLLARD

GENERAL GUIDELINES FOR PROPANE LOCATION AND INSTALLATION:

- PROPANE TANK LOCATION TO COMPLY WITH NFPA STANDARDS AND GUIDELINES. CONTRACTOR TO VERIFY COMPLIANCE WITH PROPANE COMPANY PRIOR TO INSTALLATION.
- PROPANE TANK TO BE INSTALLED 25'-0" MIN. AWAY FROM ANY STRUCTURE PER NFPA 58.
- PROPANE TANK TO BE INSTALLED 25'-0" MIN. AWAY FROM LIGHT POLES UNLESS EXPLOSION PROOF BOX INSTALLED PER NFPA 58.
- PROPANE TANK TO BE INSTALLED 25'-0" AWAY FROM UTILITIES (I.E. STORMWATER, ELECTRICAL TRANSFORMERS, METERS) PER NFPA 58.
- PROPANE TANK TO BE INSTALLED 10'-0" MIN. AWAY FROM PROPERTY LINES PER NFPA 58.
- PROPANE TANK TO HAVE 15' CLEARANCE FROM RUNNING VEHICLES TO POINT OF TRANSFER PER NFPA 58.
- PROPANE TANK SIZE AND INSTALLATION REQUIREMENTS MAY VARY BASED ON STATE, SEE DETAILS THIS SHEET.
- FOR CONDUIT ONLY INSTALLATION PROPANE TANK INSTALLED AT A LATER DATE, PROVIDE BOLLARD COVER (GLOBAL INDUSTRIAL MODEL WG652895M) AND (4) FOUR BOLLARD COVER ANCHOR BOLTS (GLOBAL INDUSTRIAL WG652901) OVER CONDUIT STUB-UP. INSTALL EXPLOSION PROOF JUNCTION BOX VERTICALLY TO ENSURE BOLLARD COVER FIT. SEE ELECTRICAL.

NOTE: GENERAL CONTRACTOR TO CONTACT PLAN EXPRESS FOR PROPANE TANK POWER-OPERATED DISPENSING DEVICE FOR LPG-GAS CUT-SHEET PDF DOCUMENT.

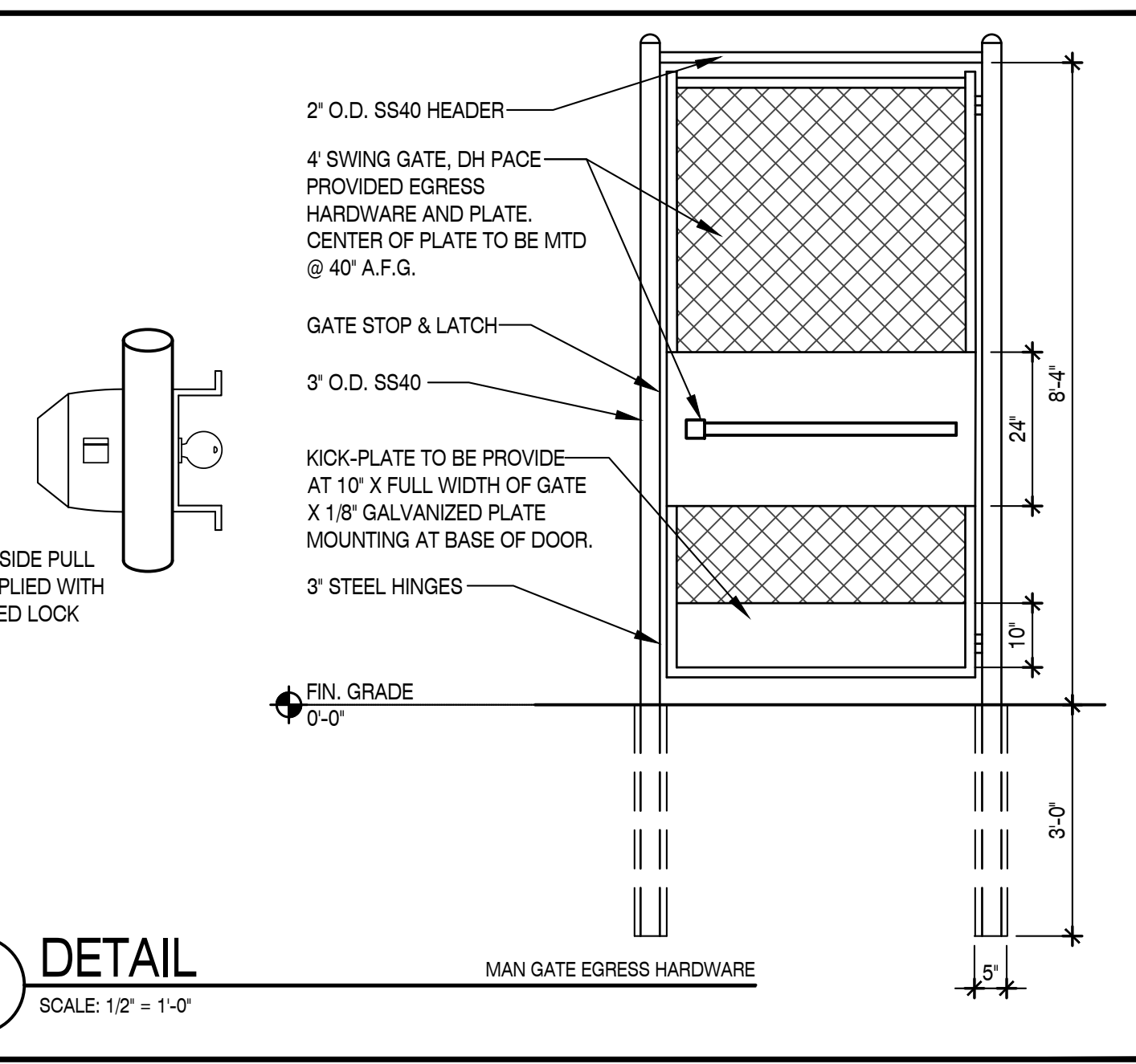
PROPANE RESPONSIBILITY NOTES:

IF PROPANE TANK IS DELIVERED PRIOR TO FIXTURE DATE:

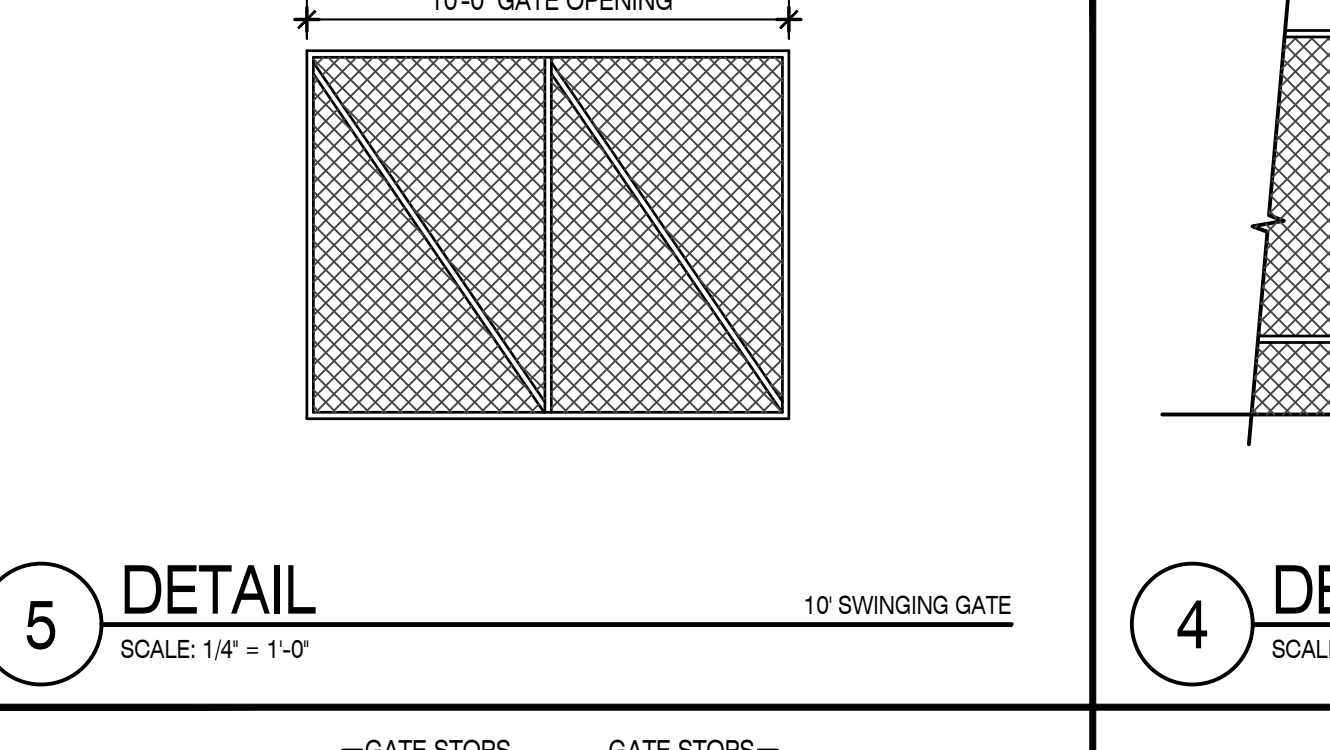
- GENERAL CONTRACTOR IS RESPONSIBLE FOR INFRASTRUCTURE RELATED TO PROPANE TANK INSTALLATION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL PERMITTING AND FINAL CONNECTION TO PUMP DISPENSING CONTROL PANEL.
- AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR GAS PERMITTING OF THE TANK.
- AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR INSTALLATION AND FINAL GAS CONNECTION OF THE TANK.
- SEE ELECTRICAL SHEET E3.2 FOR ADDITIONAL NOTES & DETAILS.

IF PROPANE TANK IS DELIVERED AFTER FIXTURE DATE:

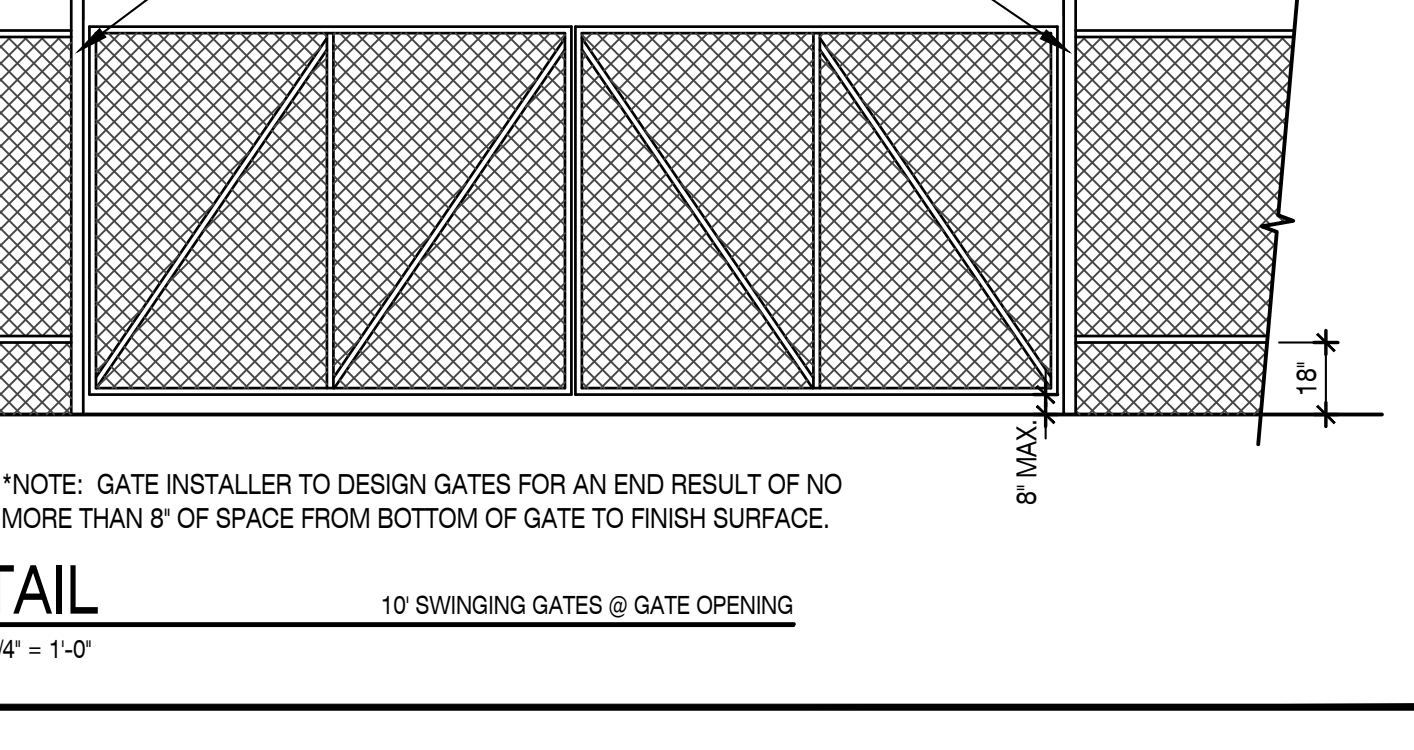
- GENERAL CONTRACTOR IS RESPONSIBLE FOR INFRASTRUCTURE RELATED TO PROPANE TANK INSTALLATION.
- AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR ELECTRICAL PERMITTING AND FINAL CONNECTION TO PUMP DISPENSING CONTROL PANEL.
- AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR GAS PERMITTING OF THE TANK.
- AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR INSTALLATION AND FINAL GAS CONNECTION OF THE TANK.
- SEE ELECTRICAL SHEET E3.2 FOR ADDITIONAL NOTES & DETAILS.



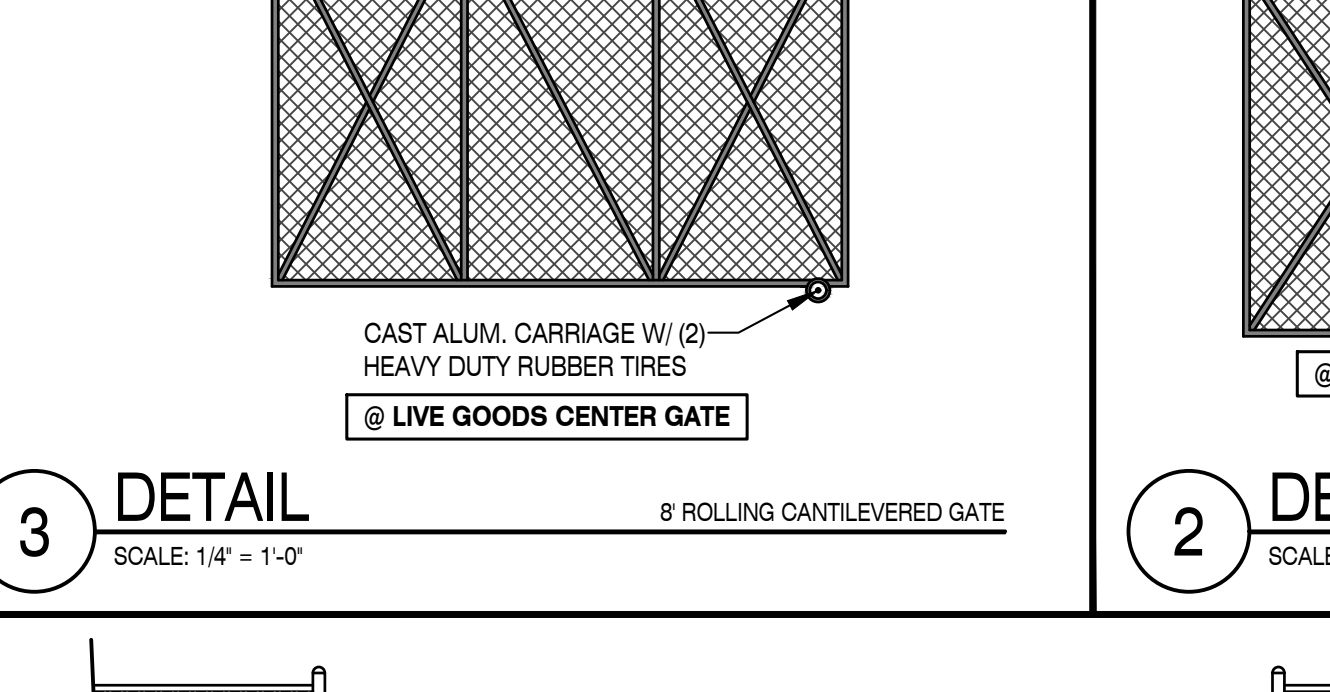
6 DETAIL
SCALE: 1/2" = 1'-0"
MAN GATE EGRESS HARDWARE



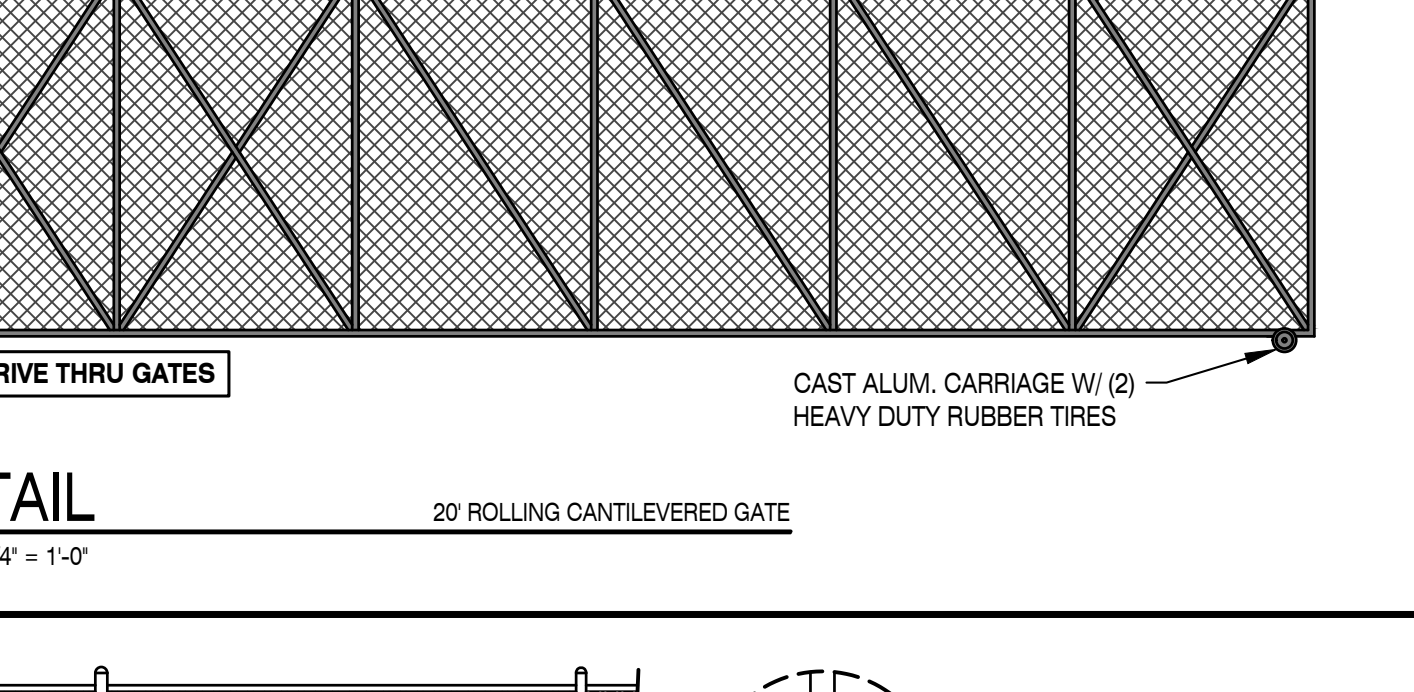
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10\"/>



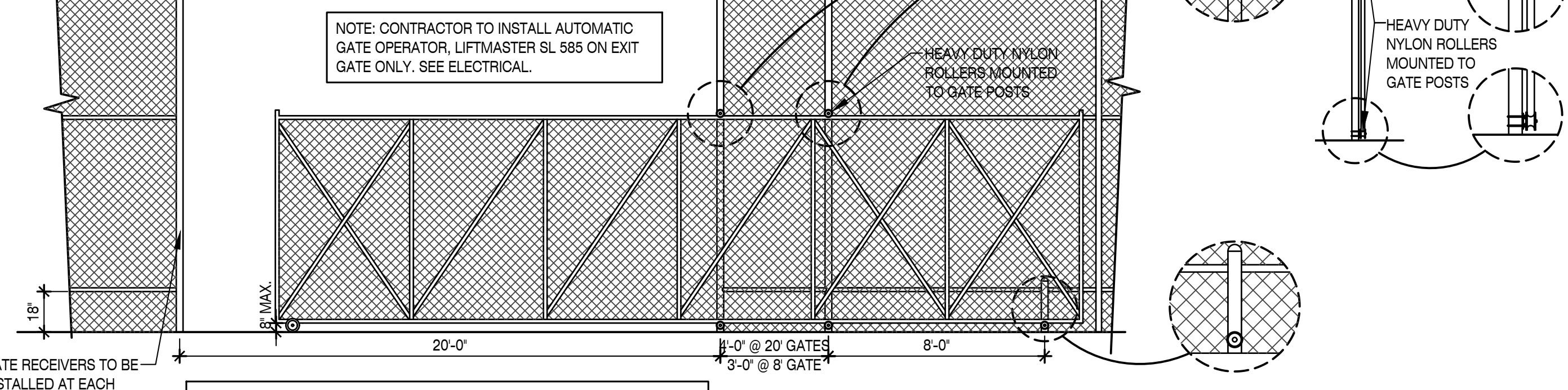
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SCALE: 1/4" = 1'-0"
10\"/>



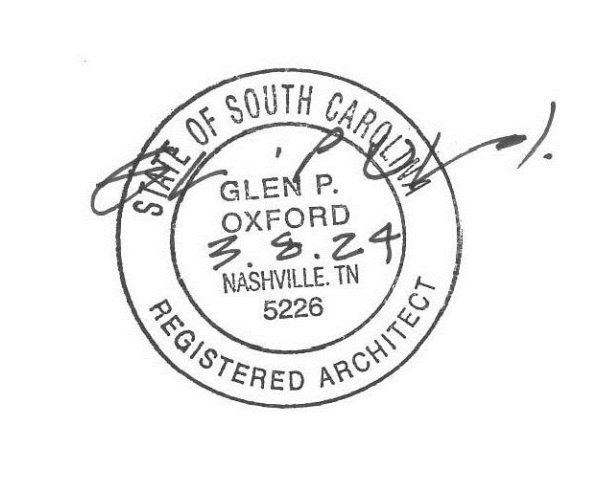
3 DETAIL
SCALE: 1/4" = 1'-0"
10\"/>



2 DETAIL
SCALE: 1/4" = 1'-0"
20\"/>



1 DETAIL
SCALE: 1/4" = 1'-0"
ROLLING CANTILEVERED GATE @ GATE OPENING



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Job Number: 2397
Date: 02.28.2024
Revisions:
Revisions:
Revisions:

NEW STORE - TIME AND ACTION CALENDAR

Q4 2023

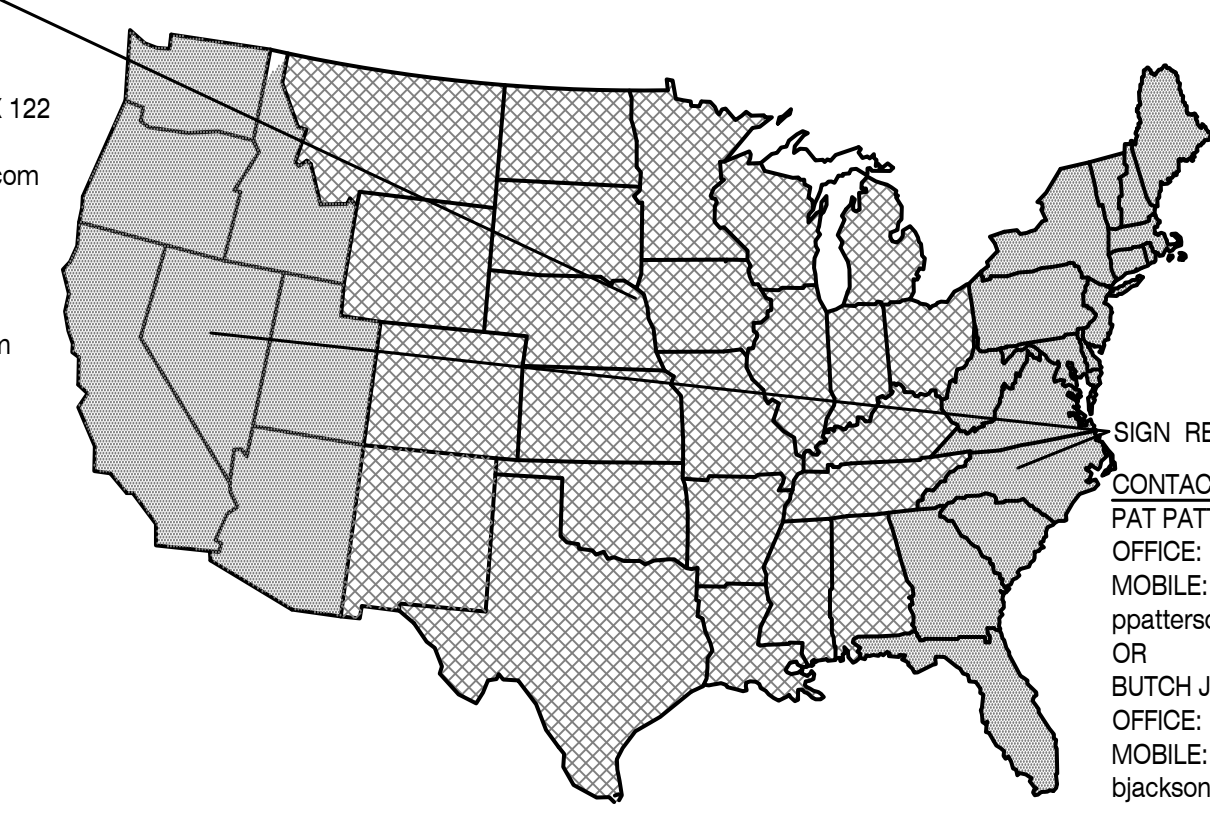
Table with columns: TASK, COMPLETION DATE (WEEKS TO CONSTRUCTION TURNOVER DATE), CONTACT, RESPONSIBILITY. Lists various construction tasks and their schedules.

LVW RESPONSIBILITY AND TIMING PLAN

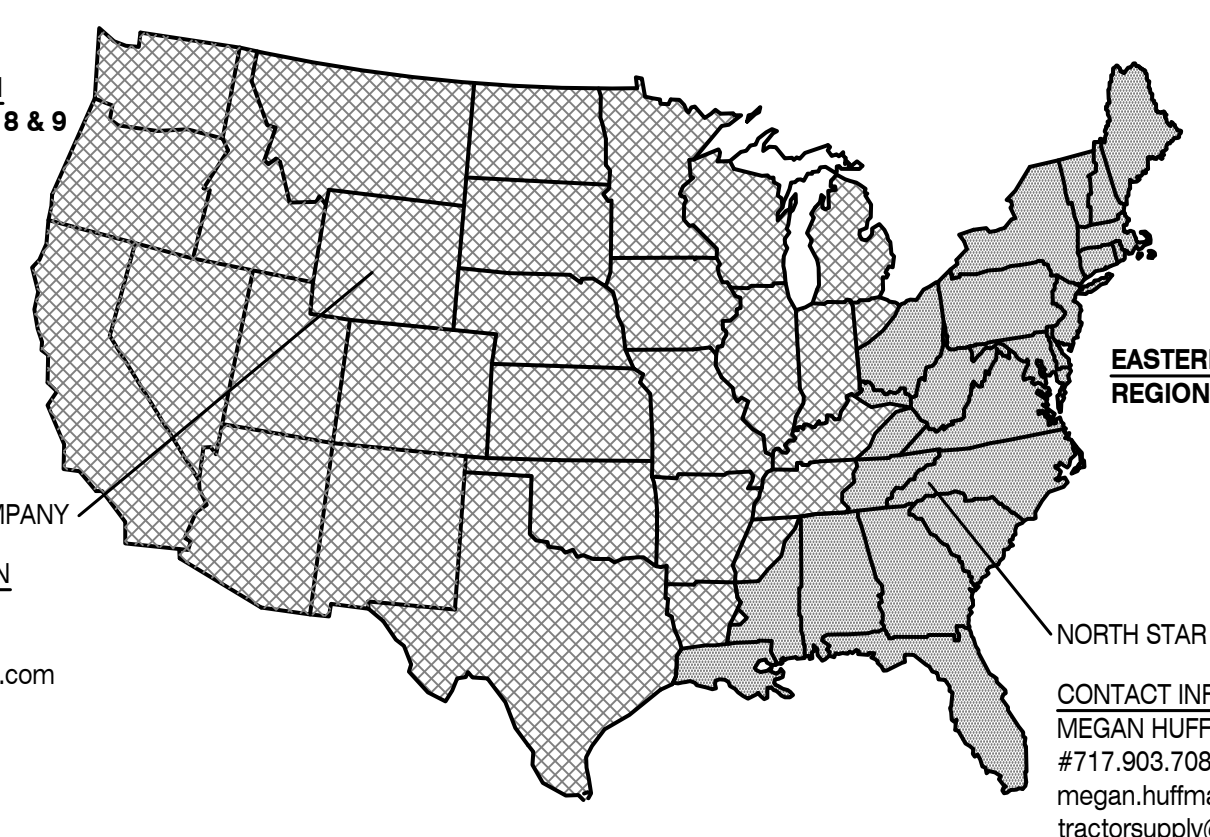
Q4 2023

Table with columns: ACTION, BY WHO, WHEN, SPECIAL NOTES. Details LVW responsibilities and timing for various tasks.

TRACTOR SUPPLY COMPANY MAINTAINS NATIONAL ACCOUNTS WITH THE SIGNAGE MANUFACTURERS LISTED BELOW. PLEASE REFER TO THE MAP FOR APPROPRIATE SIGNAGE PROVIDER PER LOCATION.



TRACTOR SUPPLY COMPANY MAINTAINS NATIONAL ACCOUNTS WITH THE VINYL PLANK MANUFACTURERS LISTED BELOW. PLEASE REFER TO THE MAP FOR APPROPRIATE FLOORING PROVIDER PER LOCATION.



GENERAL NOTES:

Q4 2023

- 1. ALL CONSTRUCTION AND DETAILS SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES AND ORDINANCES AS OF THE DATE OF THE DRAWINGS. ANY DEVIATIONS FROM BUILDING CODES REQUIRES NOTIFICATION AND APPROVAL FROM TSC PROJECT MANAGER.
2. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS OF THE SITE. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT & OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.

CLOSE-OUT BINDER REQUIREMENTS

Q4 2023

Table with columns: PM, STORE #, CITY/STATE, SO. Lists close-out binder requirements for various projects.

TSC PM - SIGNATURE DATE
NOTE: GENERAL CONTRACTOR / LANDLORD TO SEE LEASE / CONTRACT FOR SPECIFIC CHECKLIST

EXHIBIT H-1: TRAINING CERTIFICATION

COPY OF THIS EXECUTED DOCUMENT TO BE INCLUDED IN THE CLOSE OUT DOCUMENTS PROVIDED BY THE GENERAL CONTRACTOR (FOR RETRO FIT BY TENANT) OR LANDLORD (RETRO FIT BY LL AND GROUND UP PROJECTS) TO TRACTOR SUPPLY COMPANY!

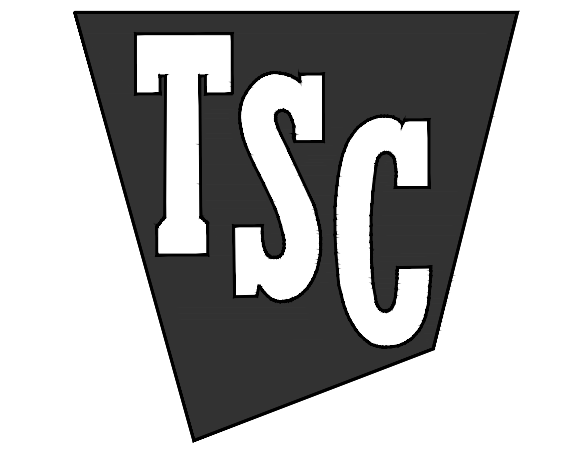
Table with columns: INITIAL TSC STORE MANAGER, INITIAL GC, TRAINING HAS BEEN COMPLETED WITH THE STORE MANAGER BY THE GENERAL CONTRACTOR (GC) ON HOW TO USE, OPERATE AND MAINTAIN.

TSC & VENDOR CONTACT INFORMATION

Multiple sections containing contact information for various vendors and services: (CLOSED SPECIFICATIONS), (RECOMMENDED ONLY), UTILITY TRANSFER INFORMATION, FIRE SPRINKLER SYSTEMS, RED STRIPING, SECTIONAL DOORS, STOREFRONT DOORS, LIGHTING PROVIDER, RESTROOM DRYERS, PROPANE COORDINATION, METAL RAMP DISTRIBUTOR, GARDEN CENTER, PAINT, FIXTURE ANCHORING, WASTE AND RECYCLING VENDOR, SKYLIGHTS, VINYL PLANK FLOORING, SIGNAGE MANUFACTURER, SIGN RESOURCES.



GLEN P. OXFORD ARCHITECT
2934 Sidco Drive Suite 120 Nashville, TN 37204
Architecture Planning Interior Architecture



TRACTOR SUPPLY COMPANY
LILLINGTON NORTH CAROLINA

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Job Number: 2360
Date: 03.22.2024
Revisions:
Revisions:
Revisions: TENANT CRITERIA & VENDOR INFORMATION
Sheet Number: A0.0



GLEN P. OXFORD ARCHITECT

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

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: TSC - Lillington, NC
Address: 26 Highway 211, Lillington, NC Zip Code: 27546
Owner/Authorized Agent: Glen P. Oxford Phone: 615.256.3438 E-Mail: glen@oxfordarchitect.com

CONTACT: Glen P. Oxford
DESIGNER: FIRM NAME LICENSE # TELEPHONE # E-MAIL
Architectural: Oxford Architecture Glen P. Oxford 6286 615.256.3438 glen@oxfordarchitect.com

2018 NC CODE FOR: New Construction Addition Renovation
Alteration Level 1 Level II Level III
2018 NC EXISTING BUILDING CODE: Prescriptive Repair Chapter 14
Alteration Level I Level II Level III

CONSTRUCTION (date) ORIGINAL OCCUPANCY (Ch. 3):
RENOVATED (date) CURRENT OCCUPANCY (Ch. 3):
RISK CATEGORY (Table 1604.5) Current Proposed

BASIC BUILDING DATA
Construction Type: I-A I-B I-A I-B I-A I-B I-A I-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes (Primary) Flood Hazard Area: No Yes

2018 NC Administrative Code and Policies Appendix B for Building

Table with columns: FLOOR, EXISTING (SQ FT), NEW (SQ FT), RECONSTRUCT (SQ FT), SUB-TOTAL. Rows include 0th Floor, 1st Floor, 2nd Floor, 3rd Floor, 4th Floor, 5th Floor, Mezzanine, 1st Floor, 2nd Floor, TOTAL.

ALLOWABLE AREA Primary Occupancy Classification: SELECT ONE

Assembly A-1 A-2 A-3 A-4 A-5
Business B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-13 B-14 B-15 B-16 B-17 B-18 B-19 B-20 B-21 B-22 B-23 B-24 B-25 B-26 B-27 B-28 B-29 B-30 B-31 B-32 B-33 B-34 B-35 B-36 B-37 B-38 B-39 B-40 B-41 B-42 B-43 B-44 B-45 B-46 B-47 B-48 B-49 B-50 B-51 B-52 B-53 B-54 B-55 B-56 B-57 B-58 B-59 B-60 B-61 B-62 B-63 B-64 B-65 B-66 B-67 B-68 B-69 B-70 B-71 B-72 B-73 B-74 B-75 B-76 B-77 B-78 B-79 B-80 B-81 B-82 B-83 B-84 B-85 B-86 B-87 B-88 B-89 B-90 B-91 B-92 B-93 B-94 B-95 B-96 B-97 B-98 B-99 B-100

Incidental Uses (Chapter 4 - List Code Sections)
Special Provisions (Chapter 5 - List Code Sections)
Mixed Occupancy: No Yes Separation: Hr Exception: 008.2.4
Special Provisions (Chapter 5 - List Code Sections)

Actual Area of Occupancy A + Actual Area of Occupancy B
Allowable Area of Occupancy A <= 1.00
113,416 + 279,550,000 + 4,447,000 = 1,211,920,000 <= 1.00

2018 NC Administrative Code and Policies Appendix B for Building

Table with columns: STORY NO., DESCRIPTION AND USE, GFA, GFA PER STORY (SQ FT/GA), GFA PER STORY INCREASE (%), GFA PER STORY DECREASE (%), ALLOWABLE AREA PER STORY (SQ FT/GA). Rows include 1st Floor, 2nd Floor, 3rd Floor, 4th Floor, 5th Floor, TOTAL.

1 Frontage area increase from Section 506.3 are computed thus:
a. Perimeter which from a public way or open space having 20 feet minimum width = (P)
b. Total Building Perimeter = (P)
c. Ratio (FR) = (FR)
d. W = Minimum width of public way = (W)
e. Percent of footage increase = 100 [(FR - 0.25) x W/30] (%)

Table with columns: ALLOWABLE HEIGHT, ALLOWABLE (CODE REFERENCE), SHOWN ON PLANS, CODE REFERENCE. Rows include Building Height in Feet (Table 504.3), Building Height in Stories (Table 504.4).

1 Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.
2 The maximum height of air traffic control towers must comply with Table 412.2.1.
3 The maximum height of open parking garages must comply with Table 406.5.4.

2018 NC Administrative Code and Policies Appendix B for Building

FIRE PROTECTION REQUIREMENTS

Table with columns: REQUIREMENT, FIRE SEPARATION (FEET), MIN. WALL HEIGHT (FEET), MIN. WALL THICKNESS (INCHES), MIN. WALL STRENGTH (PSI), MIN. WALL RATING, MIN. WALL TYPE, MIN. WALL CONSTRUCTION, MIN. WALL PENETRATION, MIN. WALL JOINTS.

PERCENTAGE OF WALL OPENING CALCULATIONS
FIRE SEPARATION DISTANCE FROM PROPERTY LINES
DEGREES OF OPENING PROTECTION (TABLE 705.4)
ALLOWABLE AREA (%)
ACTUAL SHOWN ON PLANS (%)

2018 NC Administrative Code and Policies Appendix B for Building

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes
Exit Signs: No Yes
Fire Alarm: No Yes
Smoke Detection System: No Yes Partial
Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: 000
Fire and/or smoke rated wall locations (Chapter 7)
Assumed and real property line locations (See AS 10)
Elevator wall opening area with respect to distance to assumed property lines (705.5)
Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
Occupant loads for each area
Exit access travel distances (101.7)
Common path of travel distances (1006.2.1 & 2006.3.2(1))
Dead end lengths (1020.4)
Clear exit widths for each exit door
Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
Actual occupant load for each exit door
A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.
Location of doors with panic hardware (1010.1.10)
Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
Location of doors with electromagnetic egress locks (1010.1.9.9)
Location of doors equipped with hold-open devices
Location of emergency escape windows (1030)
The square footage of each fire area (502)
The square footage of each smoke compartment for Occupancy Classification 2 (407.5)
Note any code exceptions or table notes that may have been utilized regarding the items above

Table with columns: Section/Title/Note, Title. Row includes Section/Title/Note, Title.

ACCESSIBLE DWELLING UNITS (SECTION 1107)
Total Units, Accessible Units, Accessible Units Provided, Type A Units, Type B Units, Total Accessible Units Provided
ACCESSIBLE PARKING
2018 NC Administrative Code and Policies Appendix B for Building

Table with columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES, # OF ACCESSIBLE SPACES PROVIDED, TOTAL # ACCESSIBLE SPACES PROVIDED. Rows include Total.

Table with columns: USE, WATER CLOSETS, URINALS, LAVATORIES, SHOWERS, DRINKING FOUNTAINS. Rows include NEW, REV'D.

SPECIAL APPROVALS
Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DBHS, ICC, etc., describe below)

2018 NC Administrative Code and Policies Appendix B for Building

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attributes required to meet the North Carolina Energy Conservation Code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide Code or Statutory reference)
Climate Zone: 3A 3B 4A 5A
Method of Compliance: Energy Code Performance Prescriptive
ASHRAE 90.1 Performance Prescriptive
(If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)
Roofing Assembly (each assembly)
Description of assembly: Insulation entirely above deck
U-Value of total assembly: 0.02
R-Value of insulation: 50.0
Skylights in each assembly: NA
U-Value of skylight: NA
Total square footage of skylights in each assembly: NA

Exterior Walls (each assembly)
Description of assembly: CMU partially grouted, foam filled w/ Core Fill 50
U-Value of total assembly: 0.078
R-Value of insulation: NA
Opening (windows or doors with glazing)
U-Value of assembly: 0.22
Solar heat gain coefficient: 0.22
Projection factor: 0.80
Dance R-Values: NA

Walls below grade (each assembly)
Description of assembly: NA
U-Value of total assembly: NA
R-Value of insulation: NA
Floors over unconditioned space (each assembly)
Description of assembly: NA
U-Value of total assembly: NA
R-Value of insulation: NA

Floors slab on grade
Description of assembly: Slab on grade
U-Value of total assembly: 0.32
R-Value of insulation: NA
Horizontal/Vertical requirement: NA
Slab Finish: NA

2018 NC Administrative Code and Policies Appendix B for Building

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN

DESIGN LOADS:
Importance Factors: Snow Setmic (I) 1-1.0 1-1.0
Live Loads: Roof 20 psf
Mezzanine NA
Floor 100 psf / 750 psf stackroom
Ground Snow Load: 15 psf
Wind Load: Ultimate Wind Speed 117 mph (ASCE 7) Exposure Category E

SEISMIC DESIGN CATEGORY: A B C D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.3) I II III IV
Spectral Response Acceleration Ss 0.18 S1 0.09
Site Classification (ASCE 7) A B C D E
Data Source: Field Test Prescriptive Historical Data

Basic structural system: Bearing Wall Dual w/Special Moment Frame
Building Frame Dual w/Intermediate R/C or Special Steel
Moment Frame Inverted Pendulum
Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical, Components ambercut? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) 2000 psf
Presumptive bearing capacity
Pile size, type, and capacity

2018 NC Administrative Code and Policies Appendix B for Building

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone: winter dry bulb 60F summer dry bulb 84F
Interior design conditions: winter dry bulb 70F summer dry bulb 75F relative humidity: 30%
Building heating load: 833 MBH
Building cooling load: 607 MBH

Mechanical Spacing Conditioning System
Unitary: description of unit: Natural Gas-Fired Package Unit
heating efficiency: 80%
cooling efficiency: 12.1 EER
size category of unit: (3)12.5, (4)11, (5)10, (6)11, (7)13
Boiler: size category, if oversized, state reason:
Chiller: size category, if oversized, state reason:

List equipment efficiencies: See AS 10

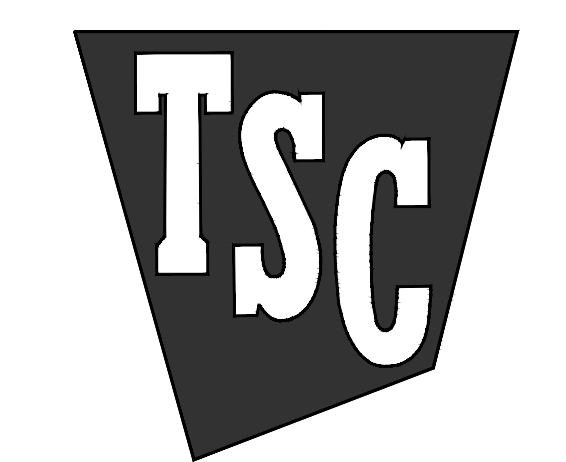
2018 NC Administrative Code and Policies Appendix B for Building

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN

ELECTRICAL SUMMARY
ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code: Prescriptive Performance
ASHRAE 90.1: Prescriptive Performance
Lighting schedule (each fixture type) See AS 10
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NEC/CEC not required for ASHRAE 90.1)
C406.2 More Efficient Mechanical Equipment
C406.3 Reduced Lighting Power Density
C406.4 Enhanced Digital Lighting Controls
C406.5 On-Site Renewable Energy
C406.6 Dedicated Outdoor Air System
C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies Appendix B for Building



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LILLINGTON NORTH CAROLINA

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Job Number: 2360

Date: 03.22.2024

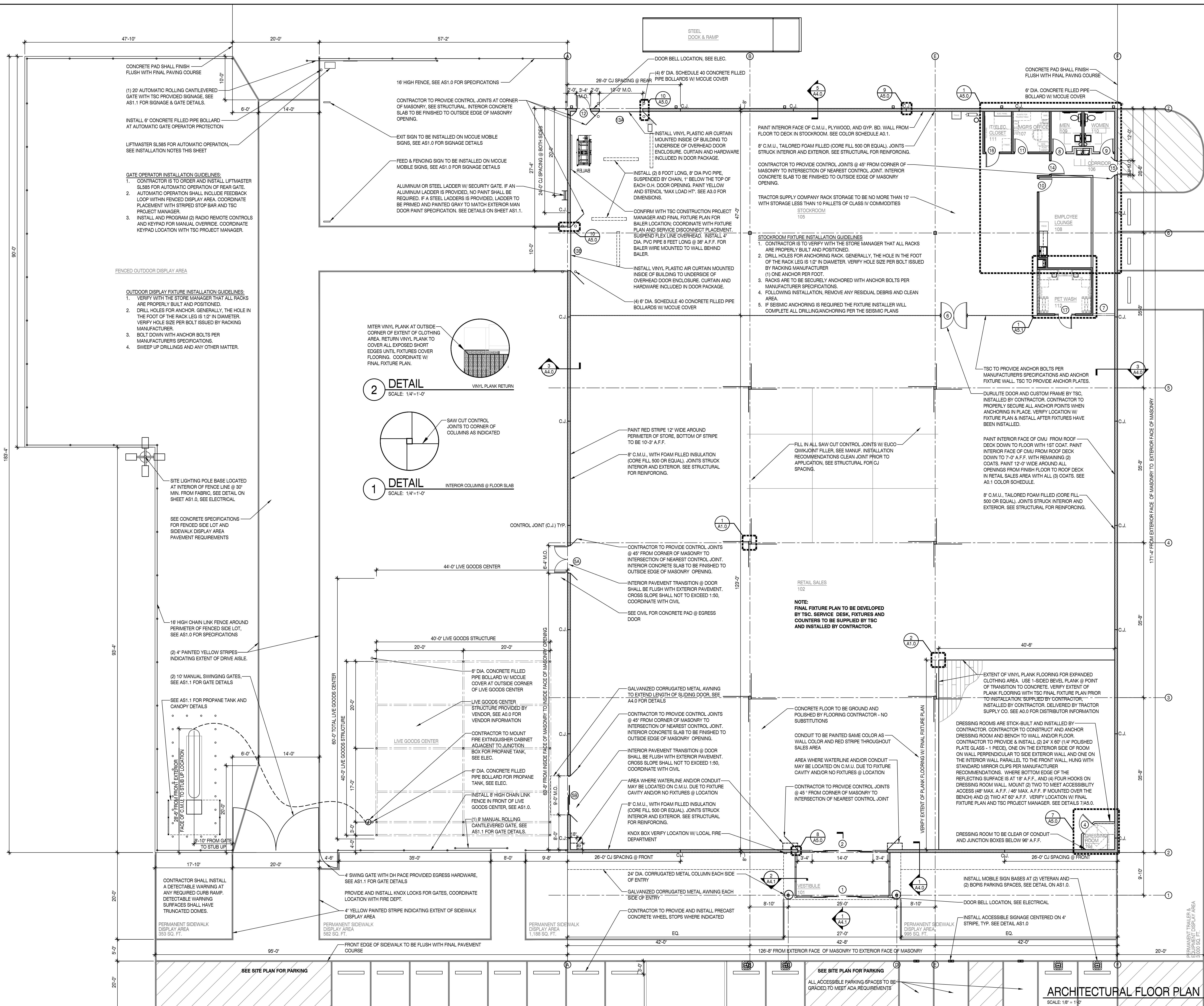
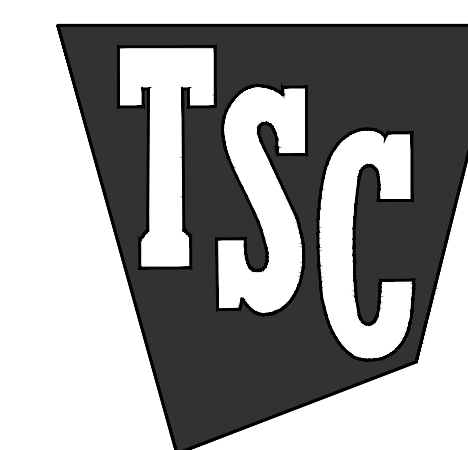
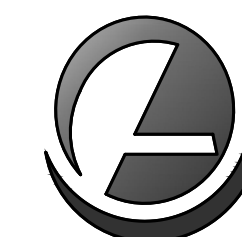
Revisions:

Revisions:

Revisions:

APPENDIX B

Sheet Number: A0.3



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

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

ARCHITECTURAL FLOOR PLAN

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

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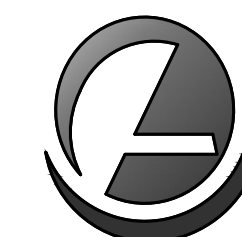
Date: 03.22.2024

Revisions:

Revisions:

Revisions: ARCHITECTURAL FLOOR PLAN

Sheet Number: A1.0

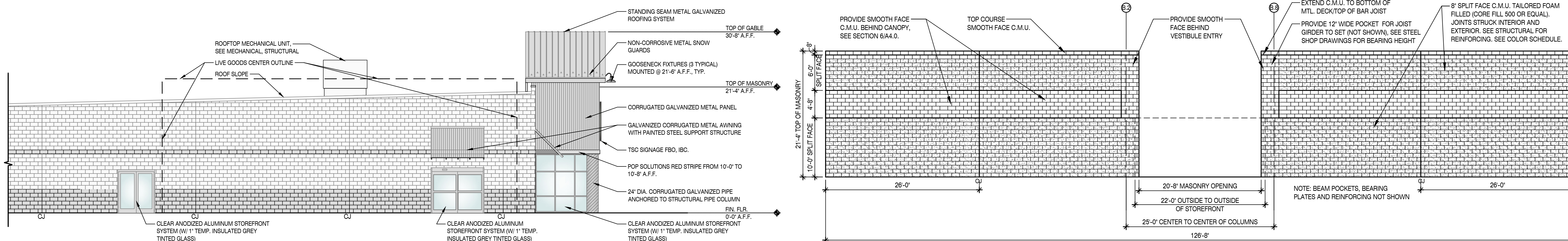


GLEN P. OXFORD
ARCHITECT

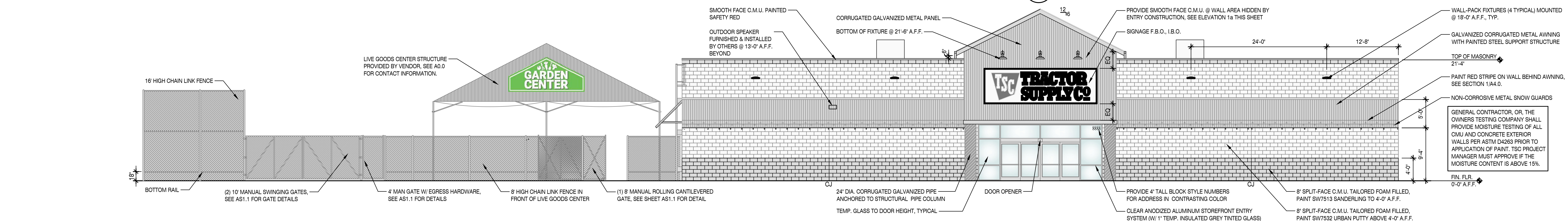
2934 Sidco Drive
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Nashville, TN 37204

Architecture
Planning
Interior Architecture

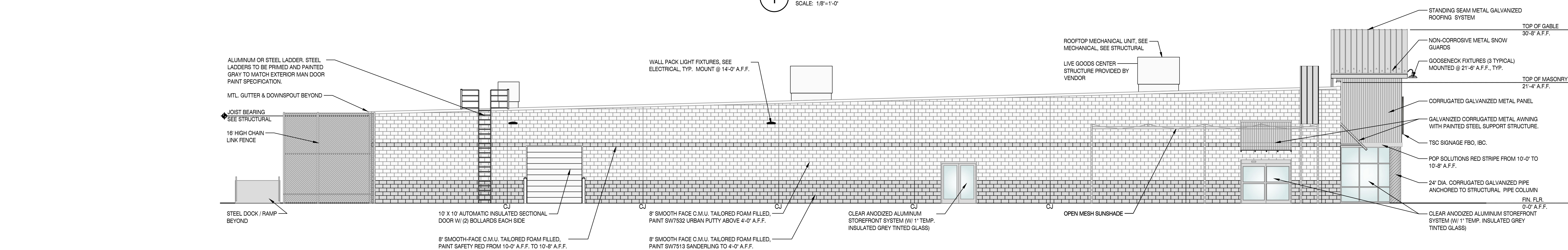
UNLESS PREVIOUSLY DIRECTED BY THE BUILDING OWNER IN WRITING, DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR COVERING ANY PARTIALLY COMPLETED MASONRY WALL(S) (CMU, BRICK, ETC.) WITH STRONG WEATHER RESISTIVE MATERIAL DURING ALL TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS AND ESPECIALLY AT THE END OF EACH WORK DAY TO PREVENT WATER/MOISTURE FROM ENTERING THE MASONRY WALL(S). THE COVER SHALL BE DRAPED OVER THE WALL AND EXTEND A MINIMUM OF (2) TWO FEET DOWN FROM BOTH SIDES AND SECURELY HELD IN PLACE. CONTINUE THIS PROCESS UNTIL MASONRY WALL IS WEATHER-TIGHT AND/OR THE ROOFING MEMBRANE IS INSTALLED AND SECURED.



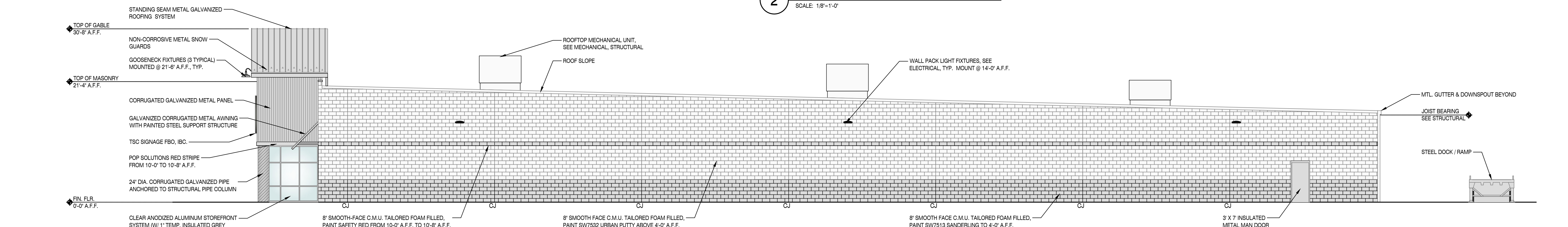
1a ELEVATION
FRONT MASONRY
SCALE: 1/8"=1'-0"



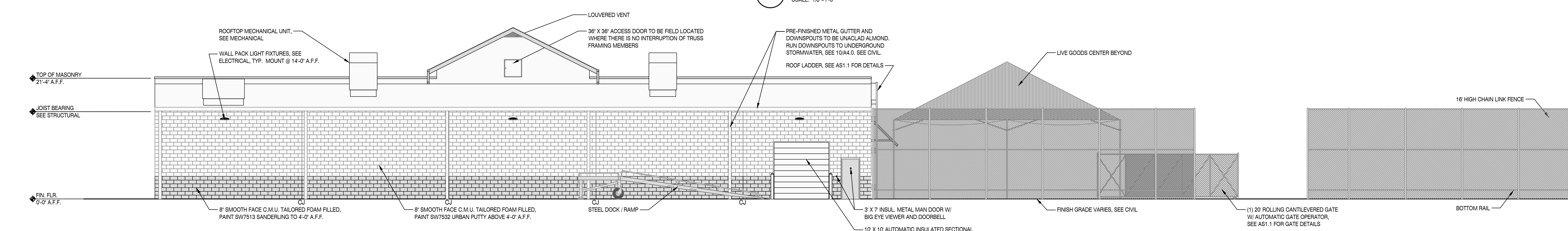
1 ELEVATION
FRONT
SCALE: 1/8"=1'-0"



2 ELEVATION
LEFT SIDE - LIVE GOODS CENTER
SCALE: 1/8"=1'-0"



3 ELEVATION
RIGHT SIDE
SCALE: 1/8"=1'-0"



4 ELEVATION
REAR
SCALE: 1/8"=1'-0"

TRACTOR SUPPLY COMPANY

LILLINGTON
NORTH CAROLINA

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Job Number: 2360

Date: 03.22.2024

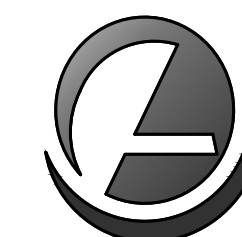
Revisions:

Revisions:

Revisions:

ARCHITECTURAL ELEVATIONS

Sheet Number: **A2.0**



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Job Number: 2360

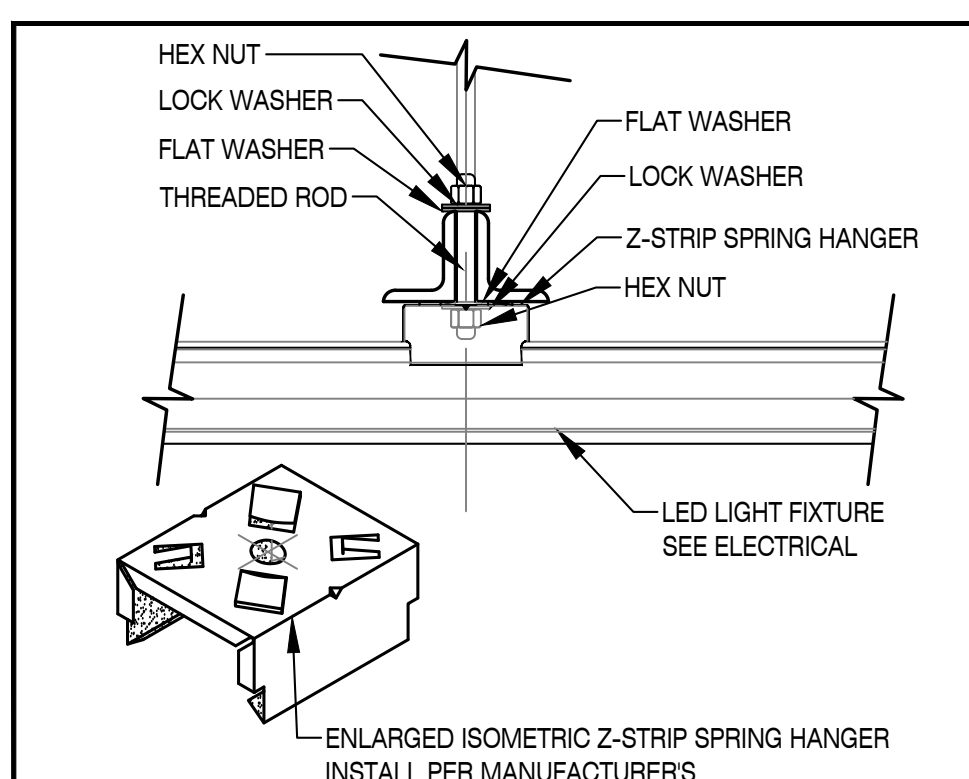
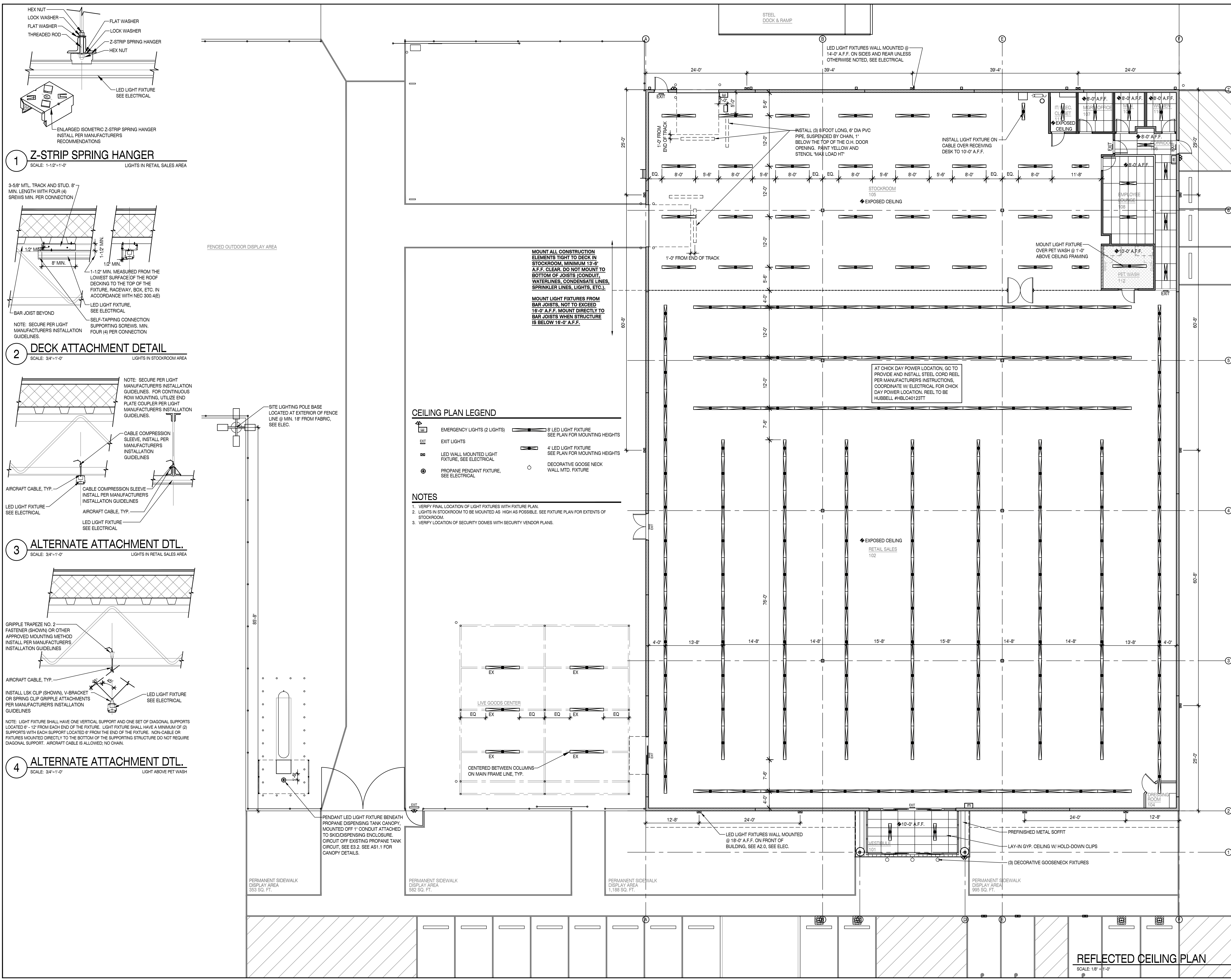
Date: 03.22.2024

Revisions:

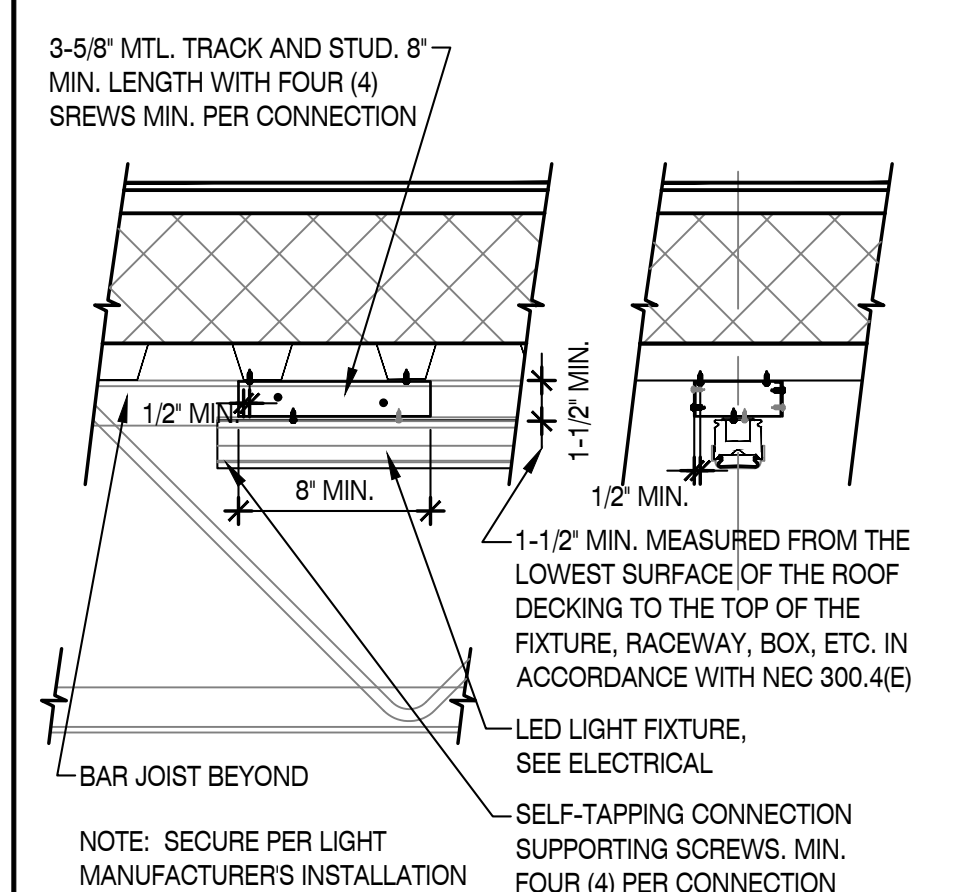
Revisions:

Revisions: REFLECTED CEILING PLAN

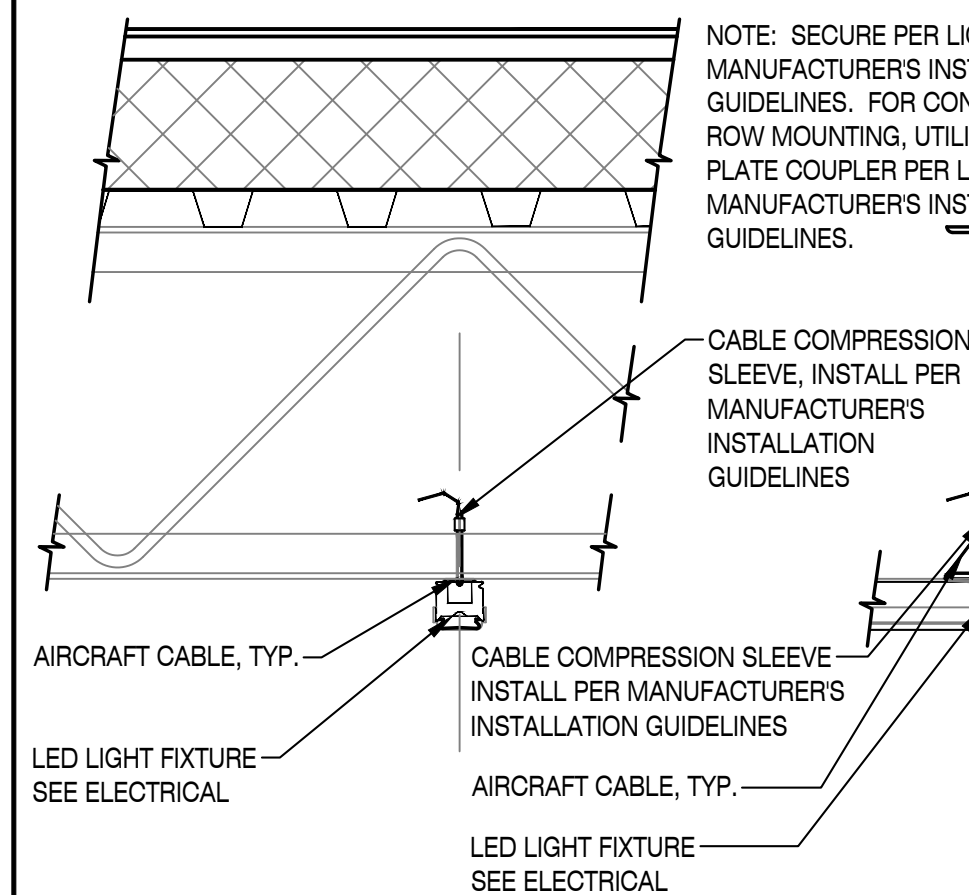
Sheet Number: A3.0



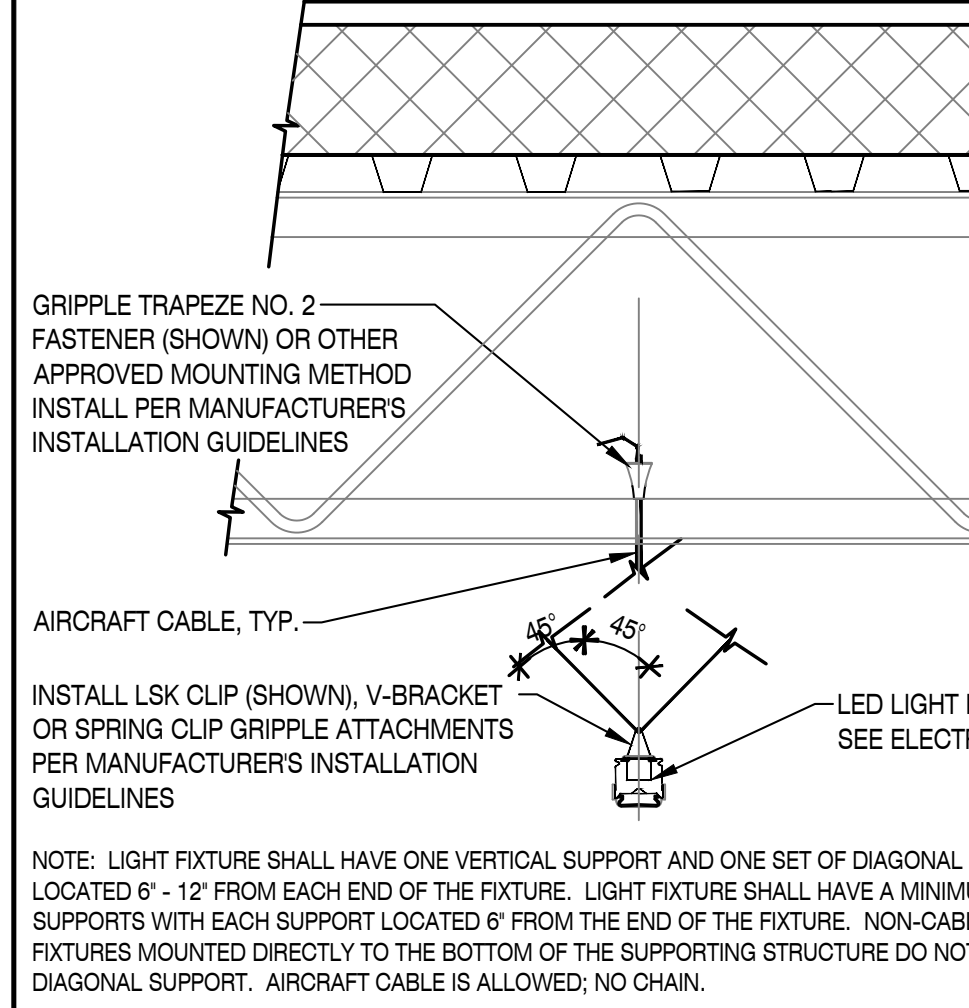
1 Z-STRIP SPRING HANGER SCALE: 1-1/2"=1'-0" LIGHTS IN RETAIL SALES AREA



2 DECK ATTACHMENT DETAIL SCALE: 3/4\"/>



3 ALTERNATE ATTACHMENT DTL. SCALE: 3/4\"/>

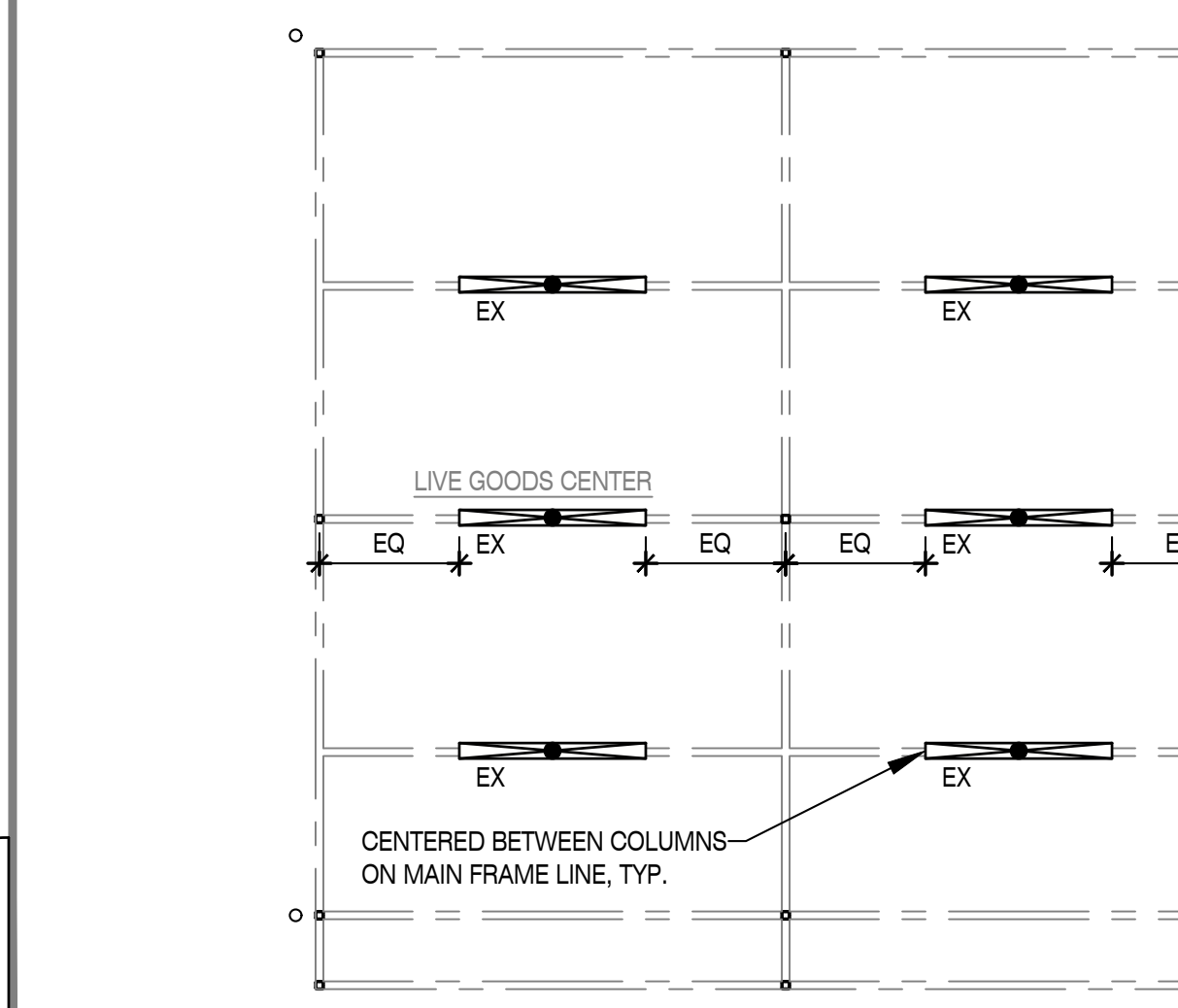


4 ALTERNATE ATTACHMENT DTL. SCALE: 3/4\"/>

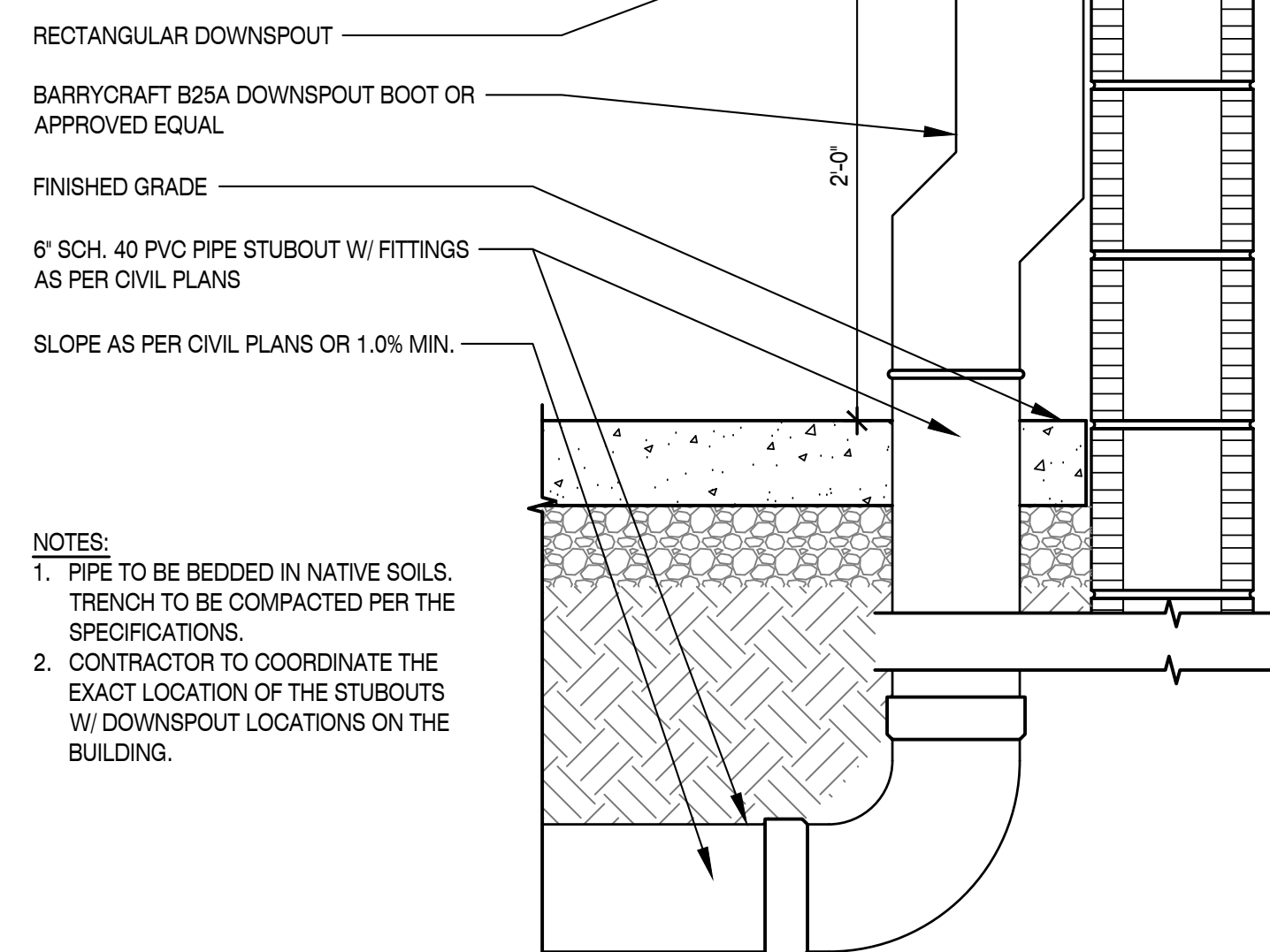
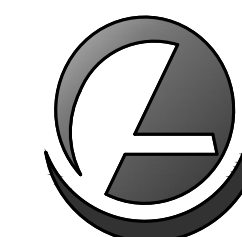
MOUNT ALL CONSTRUCTION ELEMENTS TIGHT TO DECK IN STOCKROOM, MINIMUM 13'-6\"/>

CEILING PLAN LEGEND table with symbols for Emergency Lights, Exit Lights, LED Wall Mounted Light Fixture, Propane Pendant Fixture, 0 LED Light Fixture, 4 LED Light Fixture, and Decorative Goose Neck Wall Mtd. Fixture.

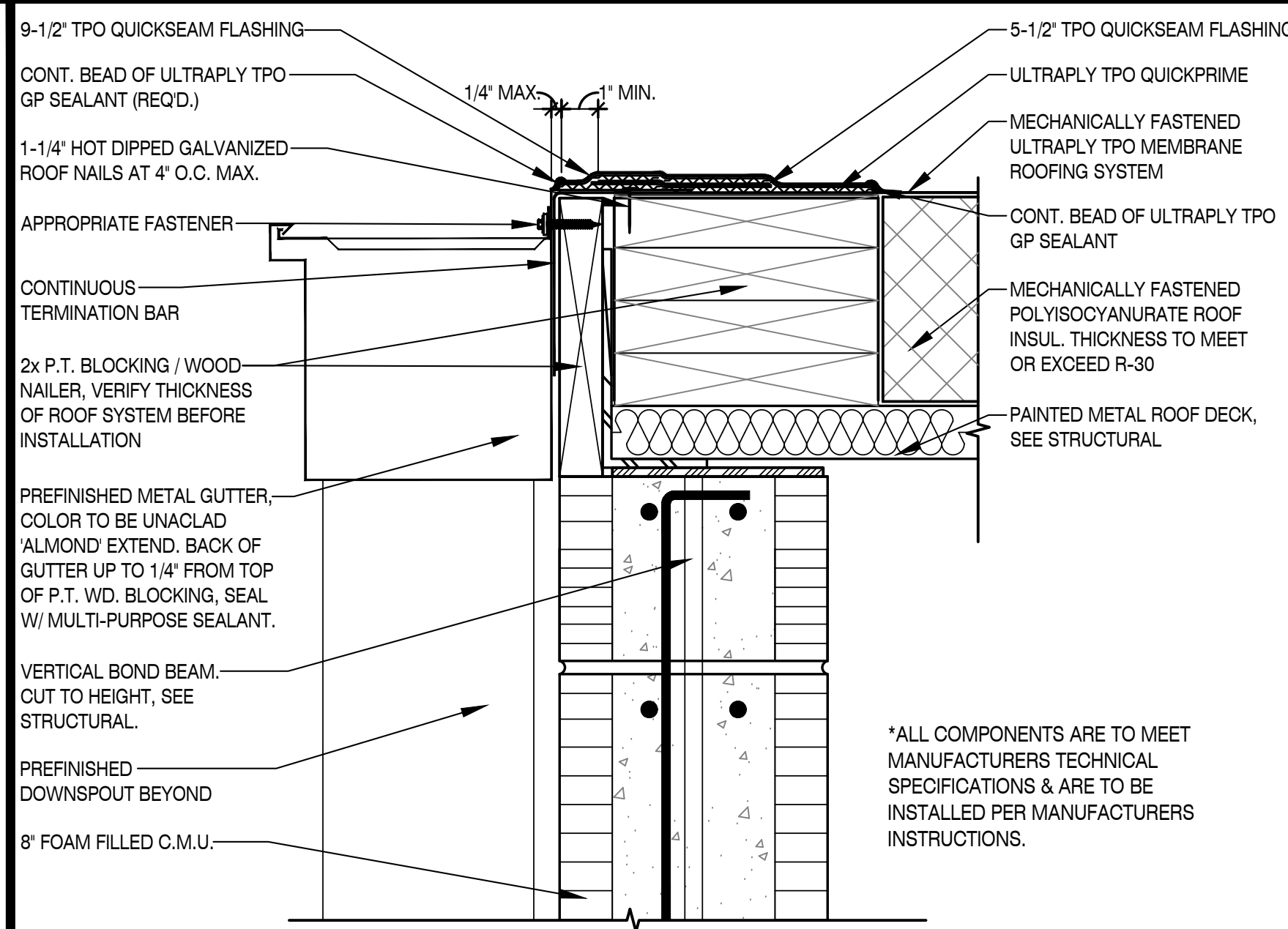
NOTES 1. VERIFY FINAL LOCATION OF LIGHT FIXTURES WITH FIXTURE PLAN. 2. LIGHTS IN STOCKROOM TO BE MOUNTED AS HIGH AS POSSIBLE. 3. VERIFY LOCATION OF SECURITY DOMES WITH SECURITY VENDOR PLANS.



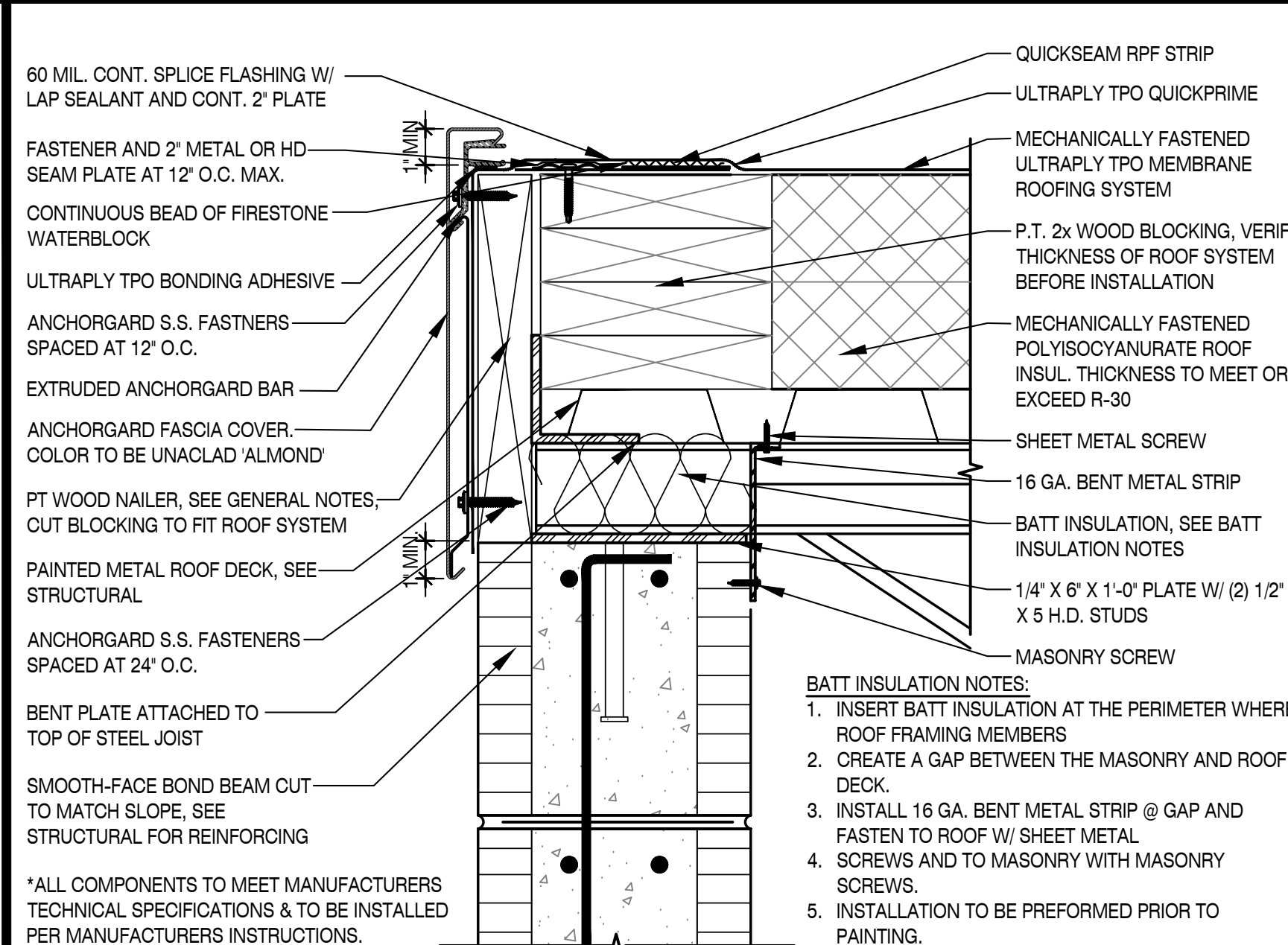
REFLECTED CEILING PLAN SCALE: 1/8\"/>



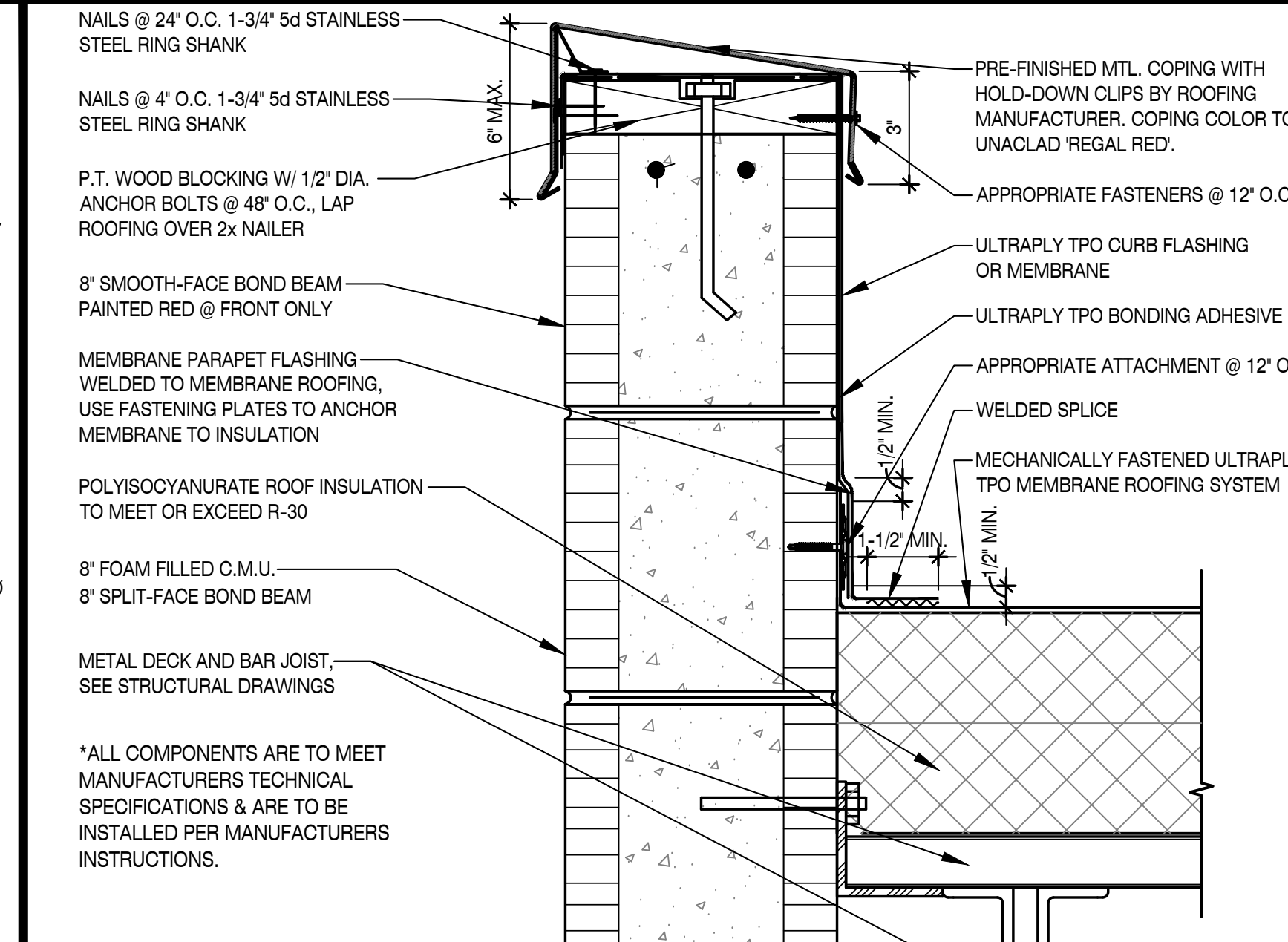
10 ENLARGED SECTION @ DOWNSPOUT SCALE: 3\"/>



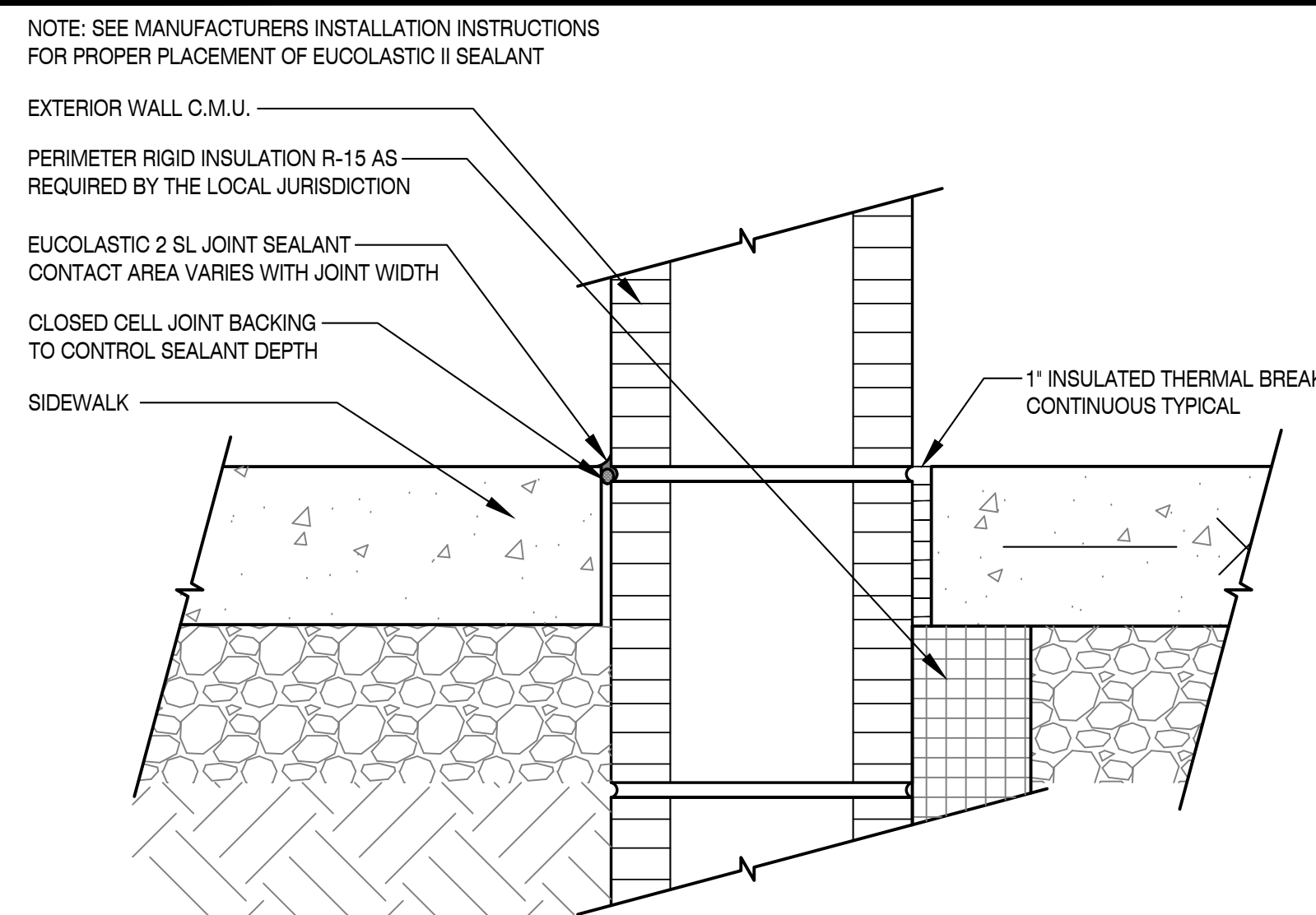
6 ENLARGED SECTION GUTTER SCALE: 3\"/>



4 ENLARGED SECTION SIDE WALL SCALE: 3\"/>

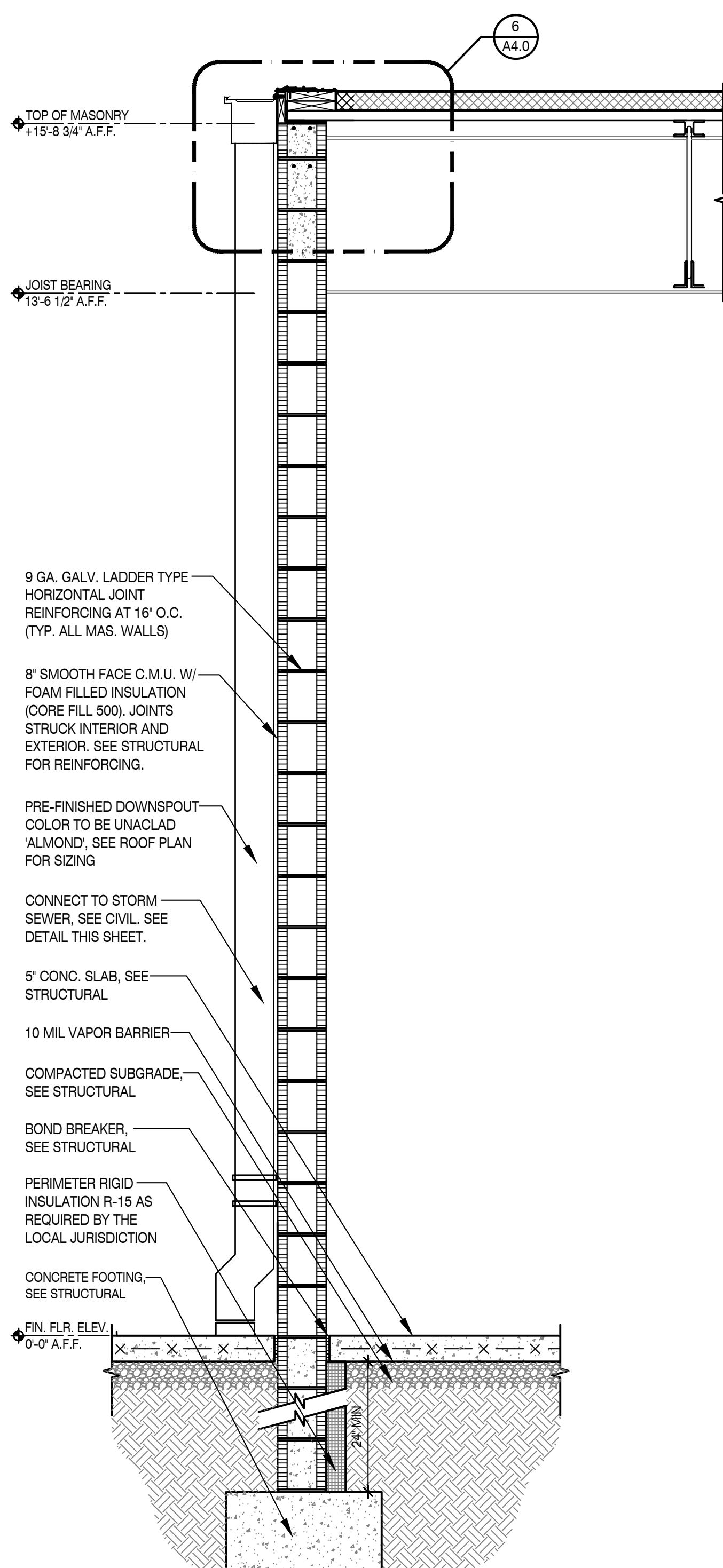


2 ENLARGED SECTION FRONT WALL SCALE: 3\"/>

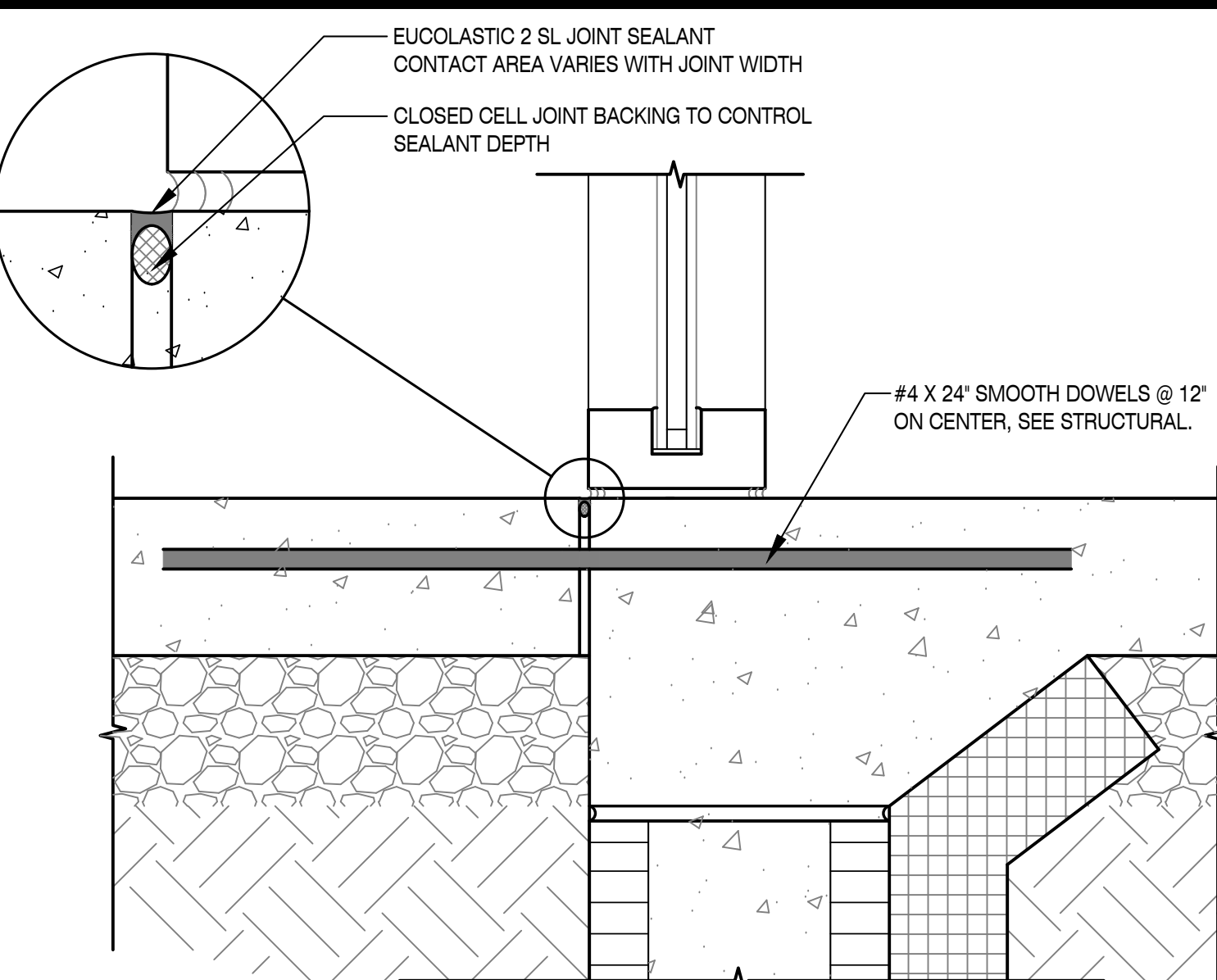


9 ENLARGED SECTION JOINT @ SLAB SCALE: 3\"/>

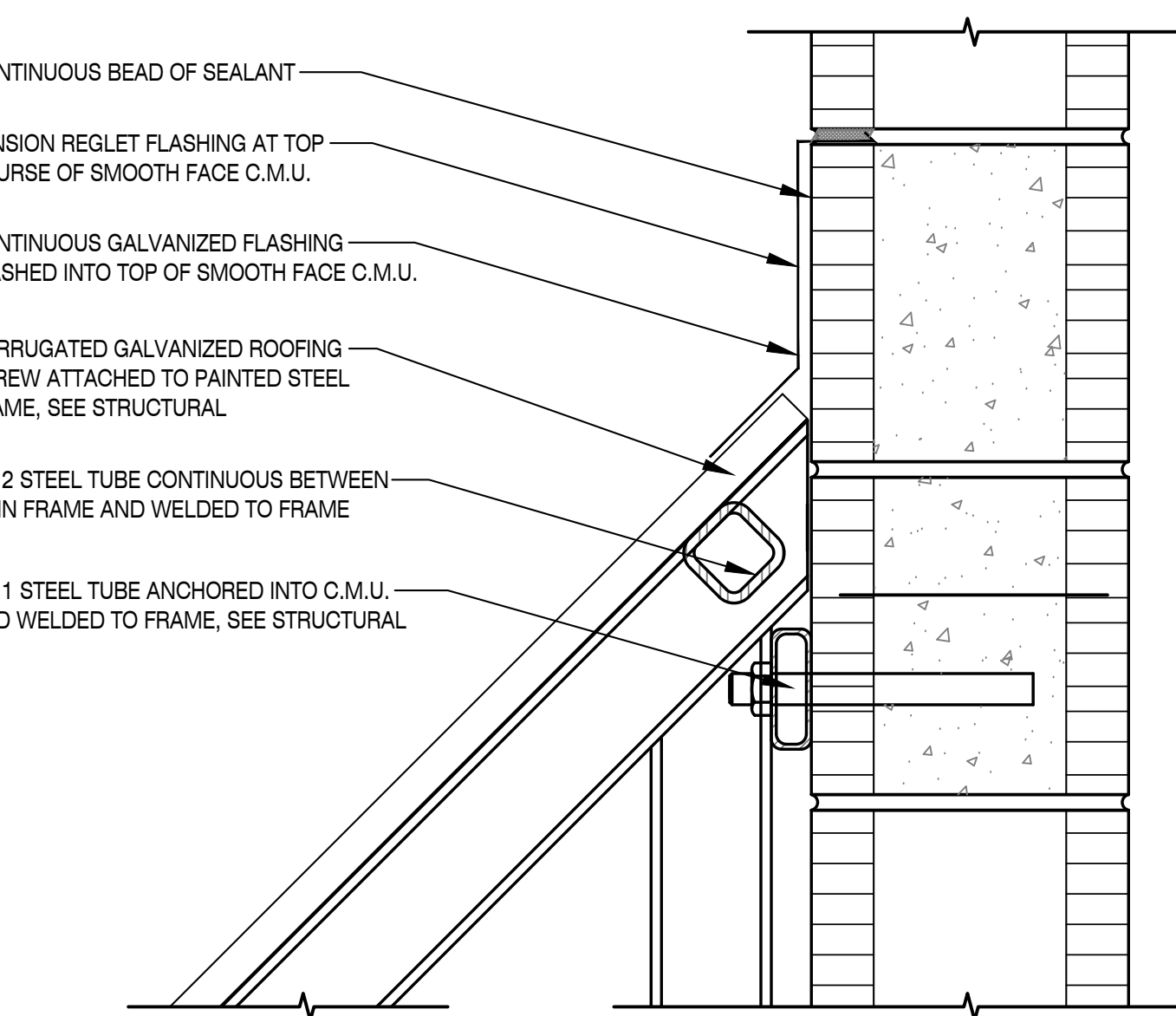
- GENERAL NOTES:
1. ROUND ALL METAL CORNERS & PLACE BACK OF GUTTER STRAP 1/4" BELOW TOP OF WOOD NAILER.
 2. DO NOT PRE-NAIL MEMBRANE TO THE FACE OF THE WD. NAILER.
 3. ANCHOR GUTTER IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.
 4. WOOD NAILERS MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MIN. IN ANY GIVEN DIRECTION.
 5. FLANGE OF METAL GUTTER MUST BE FULLY SUPPORTED BY WOOD & TERMINATE AT LEAST 1/2" FROM EDGE OF WOOD.
 6. IF THE FLANGE OF THE METAL GUTTER IS NOT COMPLETELY COVERED WITH QUICKSEAM FLASHING, THEN AN ADDITIONAL PEACE OF QUICKSEAM FLASHING SHALL BE INSTALLED AT ALL METAL SPLICES.



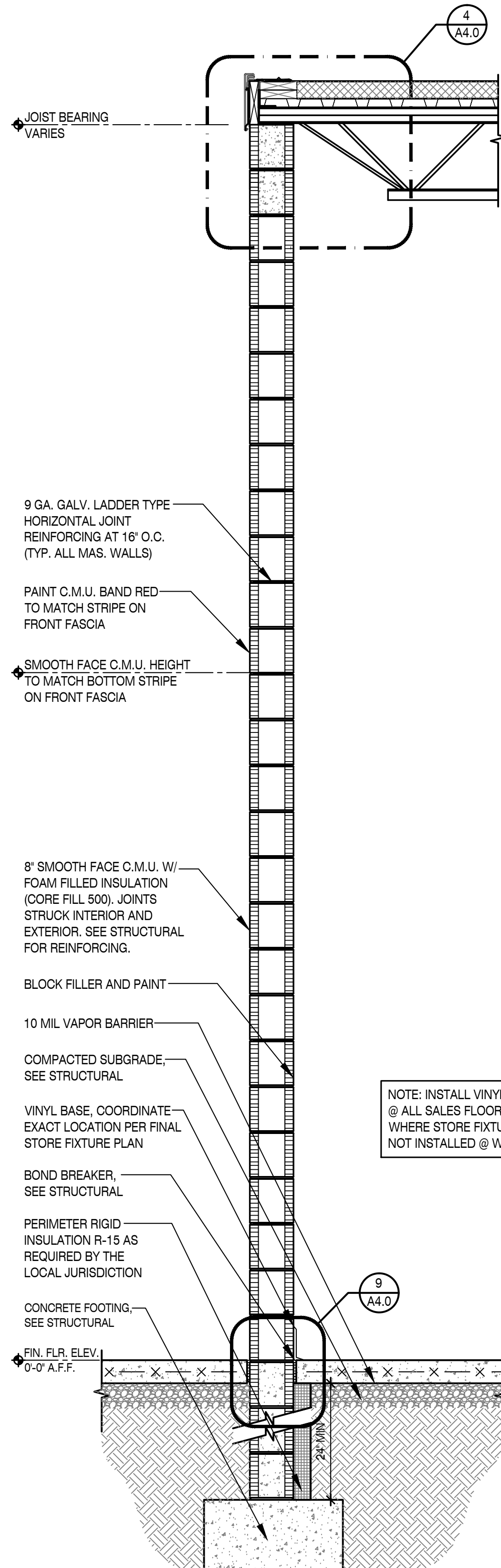
5 SECTION REAR WALL SCALE: 3/4\"/>



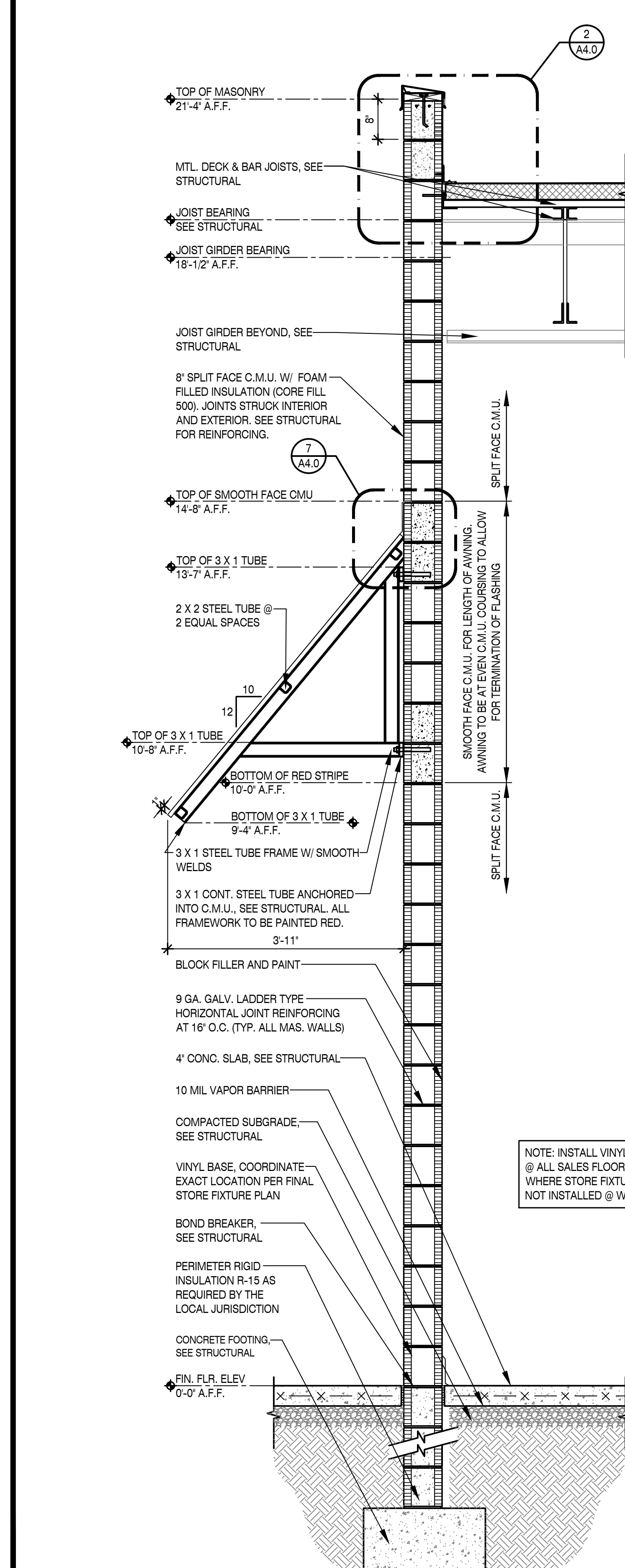
8 ENLARGED SECTION JOINT @ EXTERIOR ENTRY SCALE: 3\"/>



7 ENLARGED SECTION TOP CANOPY CONNECTION SCALE: 3\"/>



3 SECTION SIDE WALL SCALE: 3/4\"/>



1 SECTION FRONT WALL SCALE: 3/4\"/>



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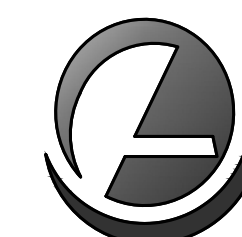
Job Number: 2360

Date: 03.22.2024

Revisions:

Revisions:

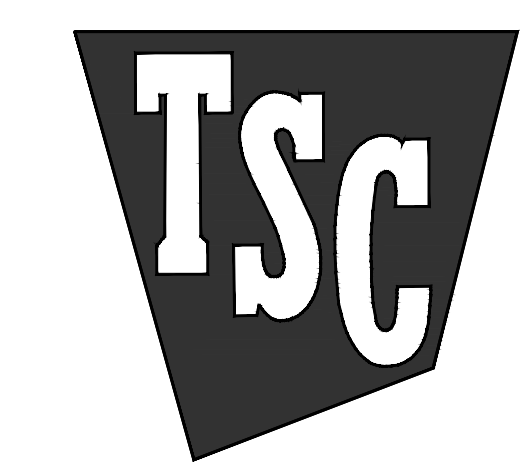
Revisions: SECTIONS & DETAILS



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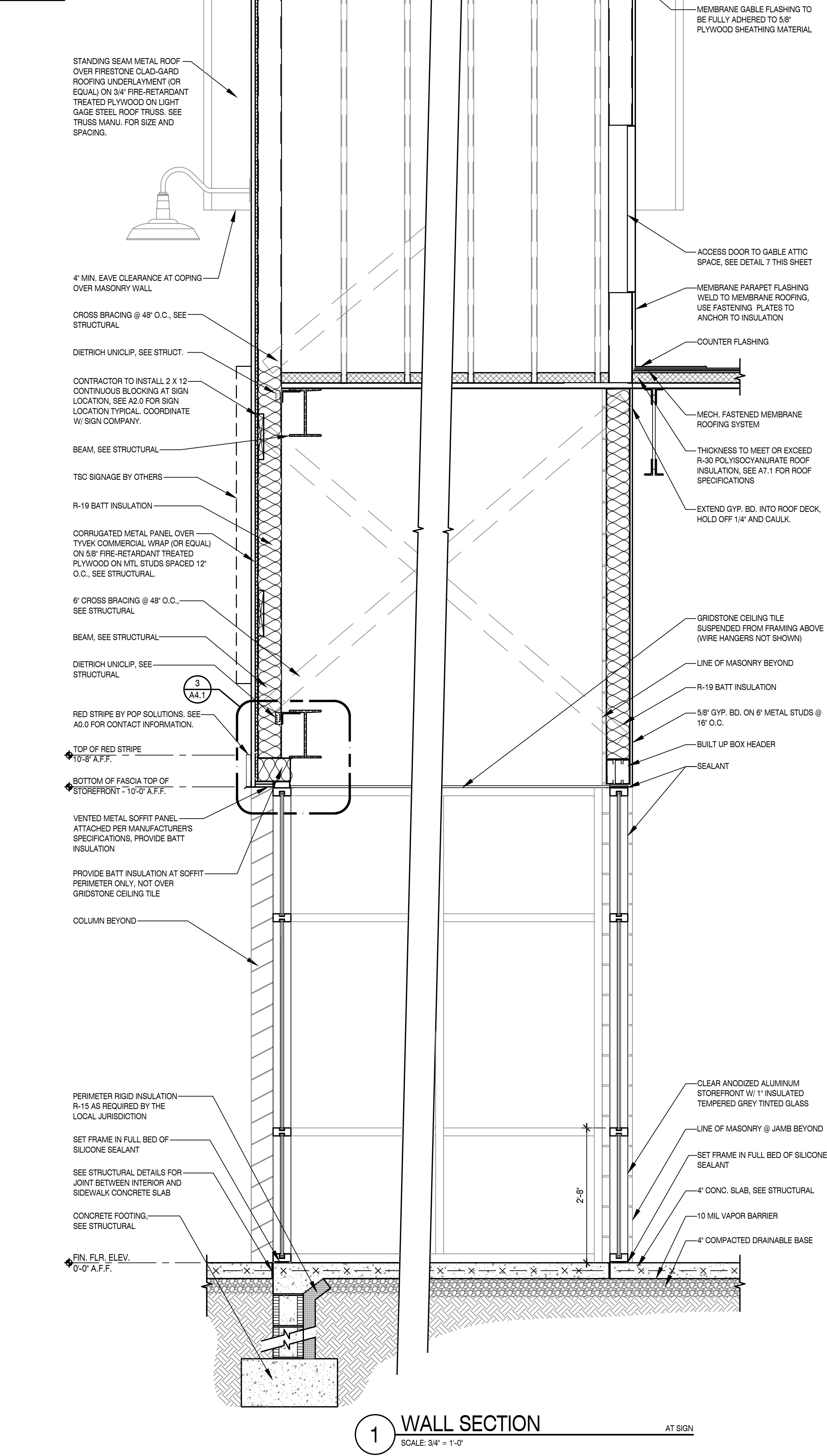
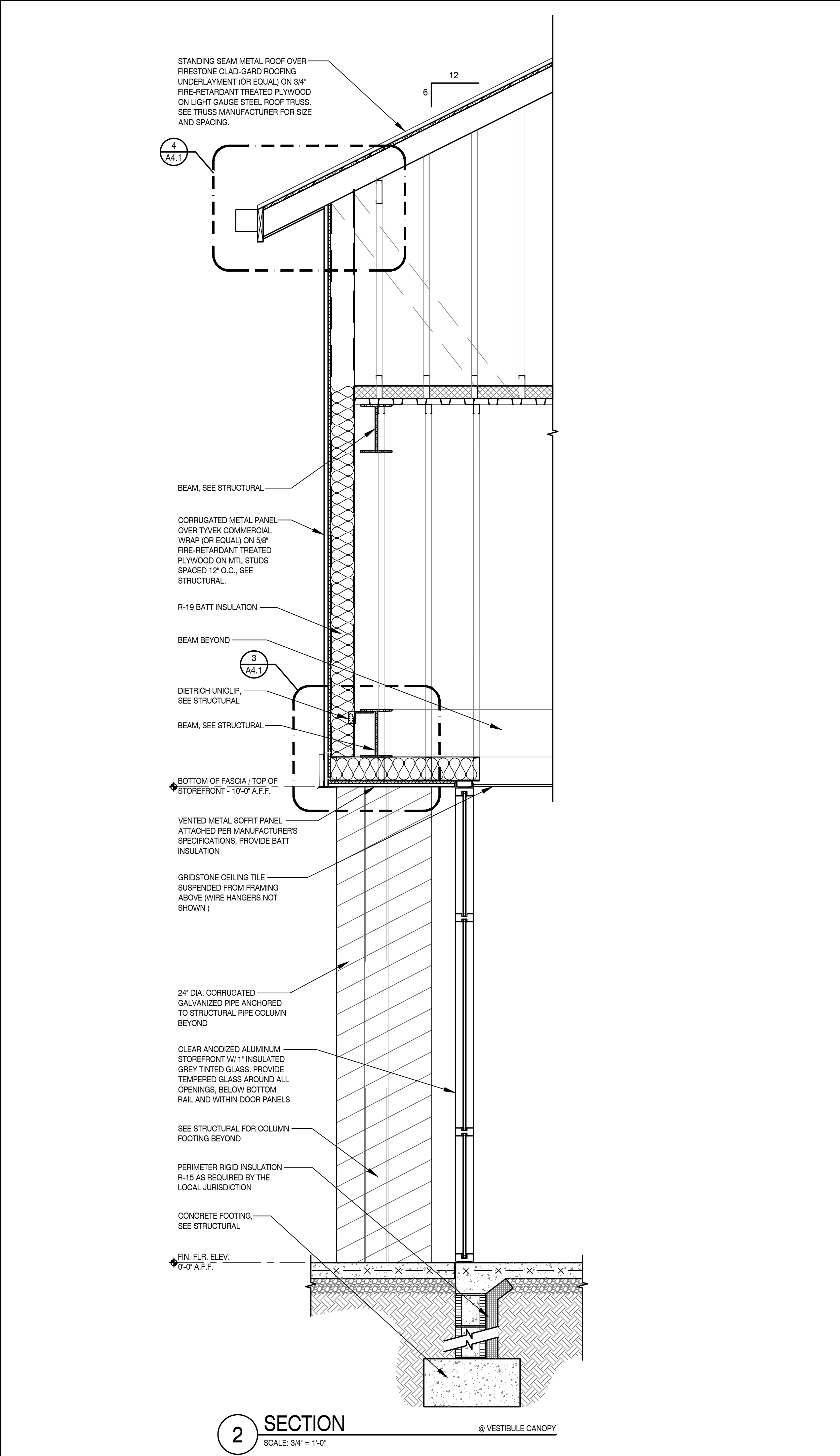
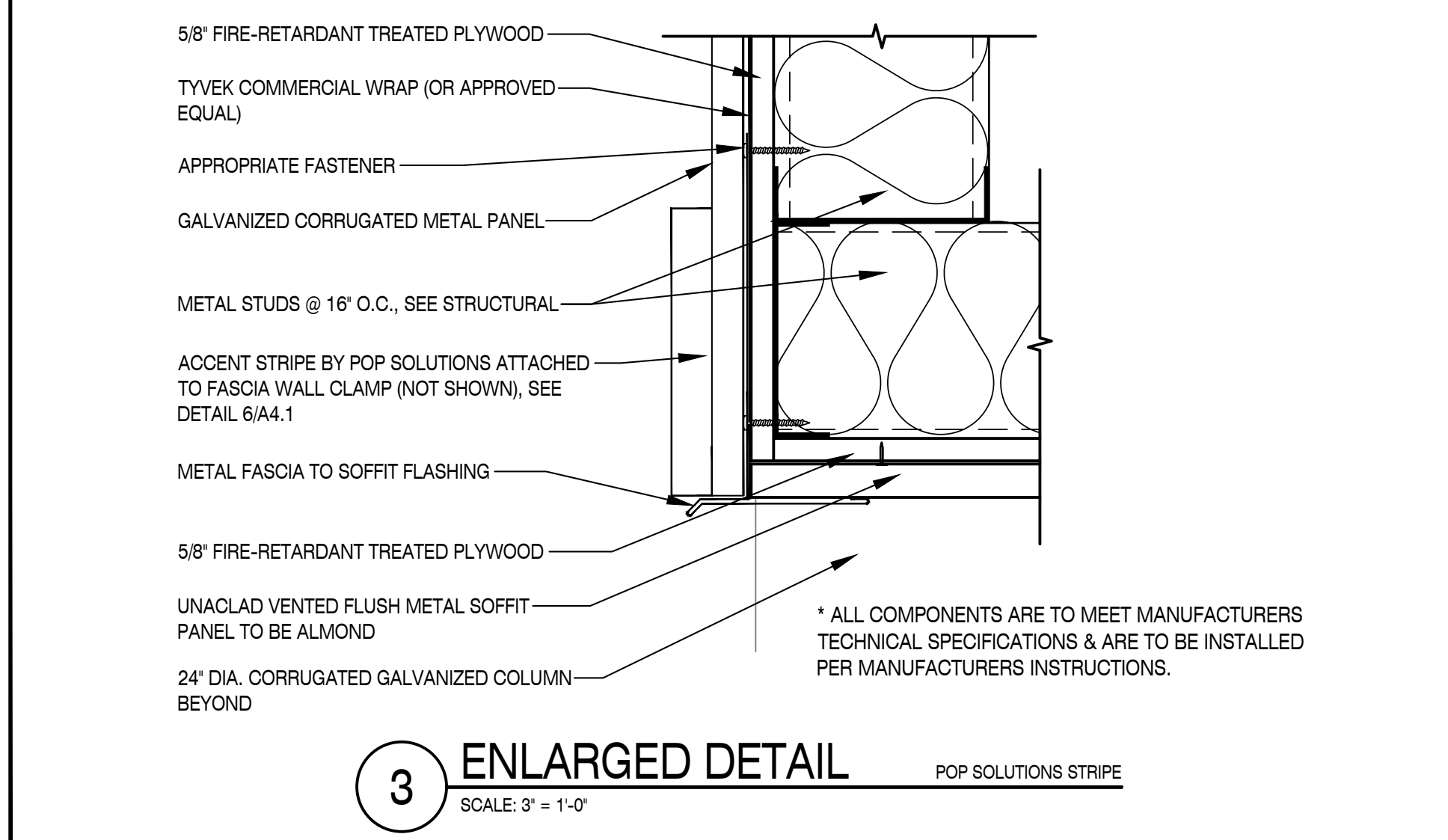
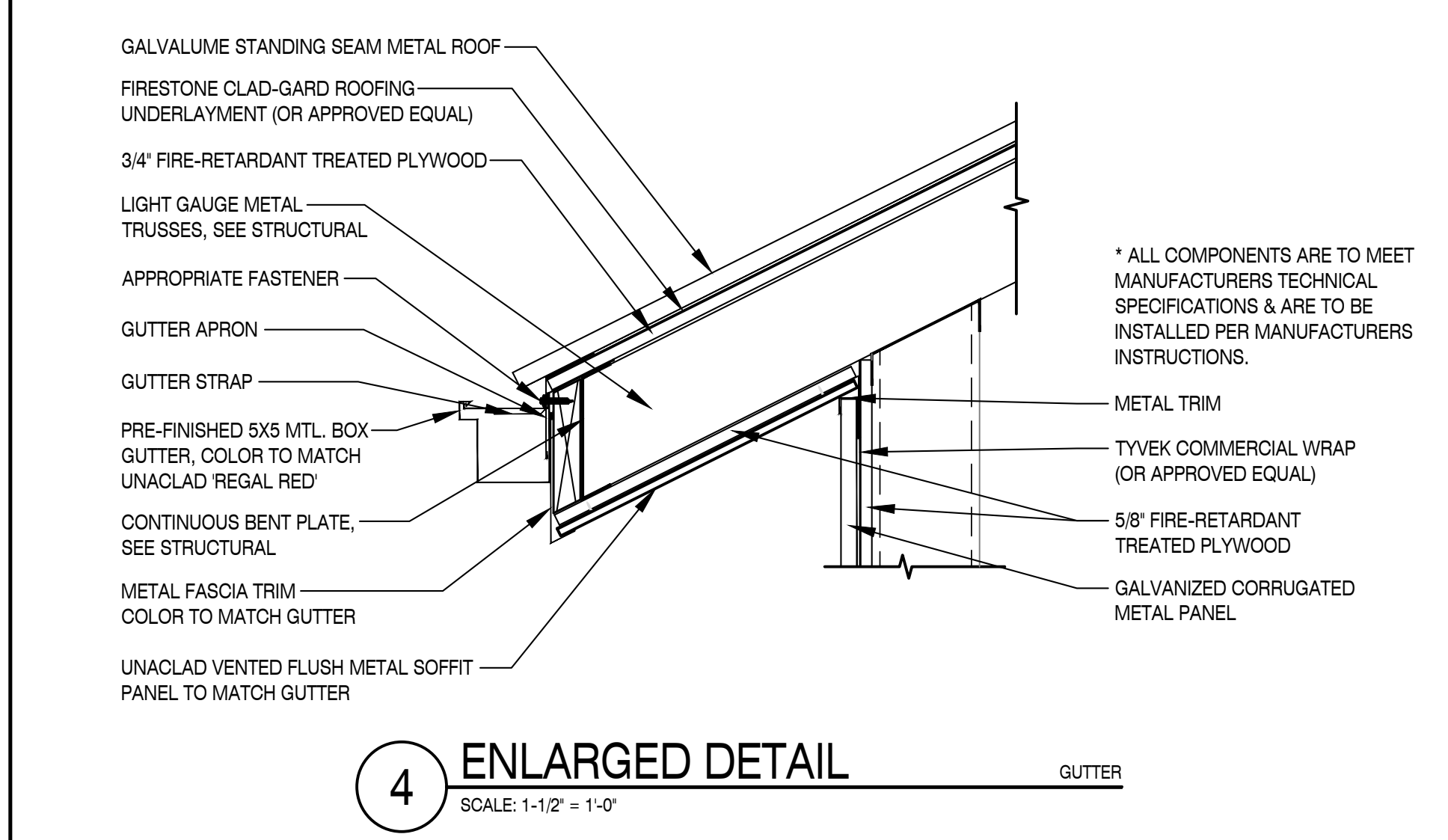
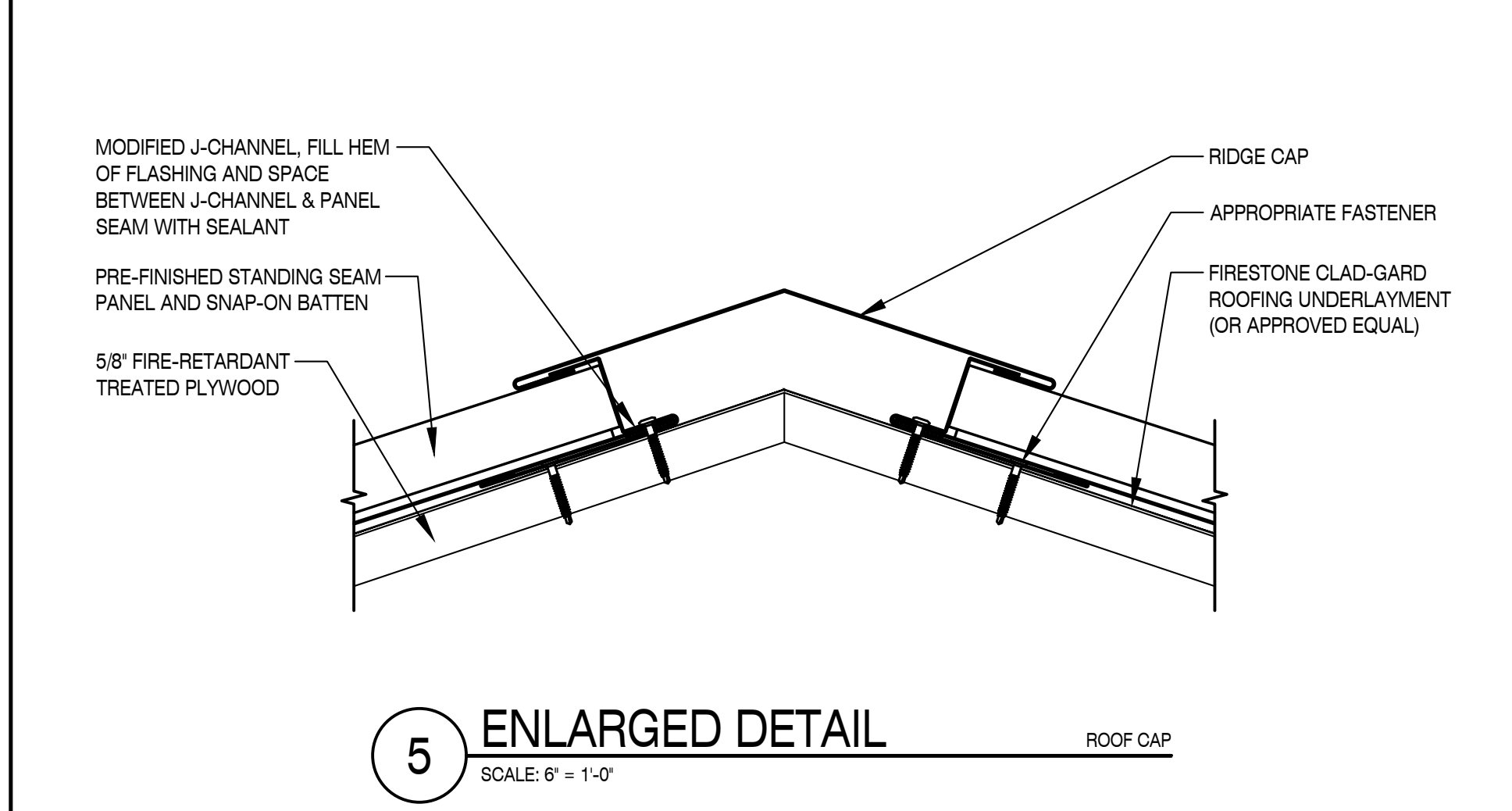
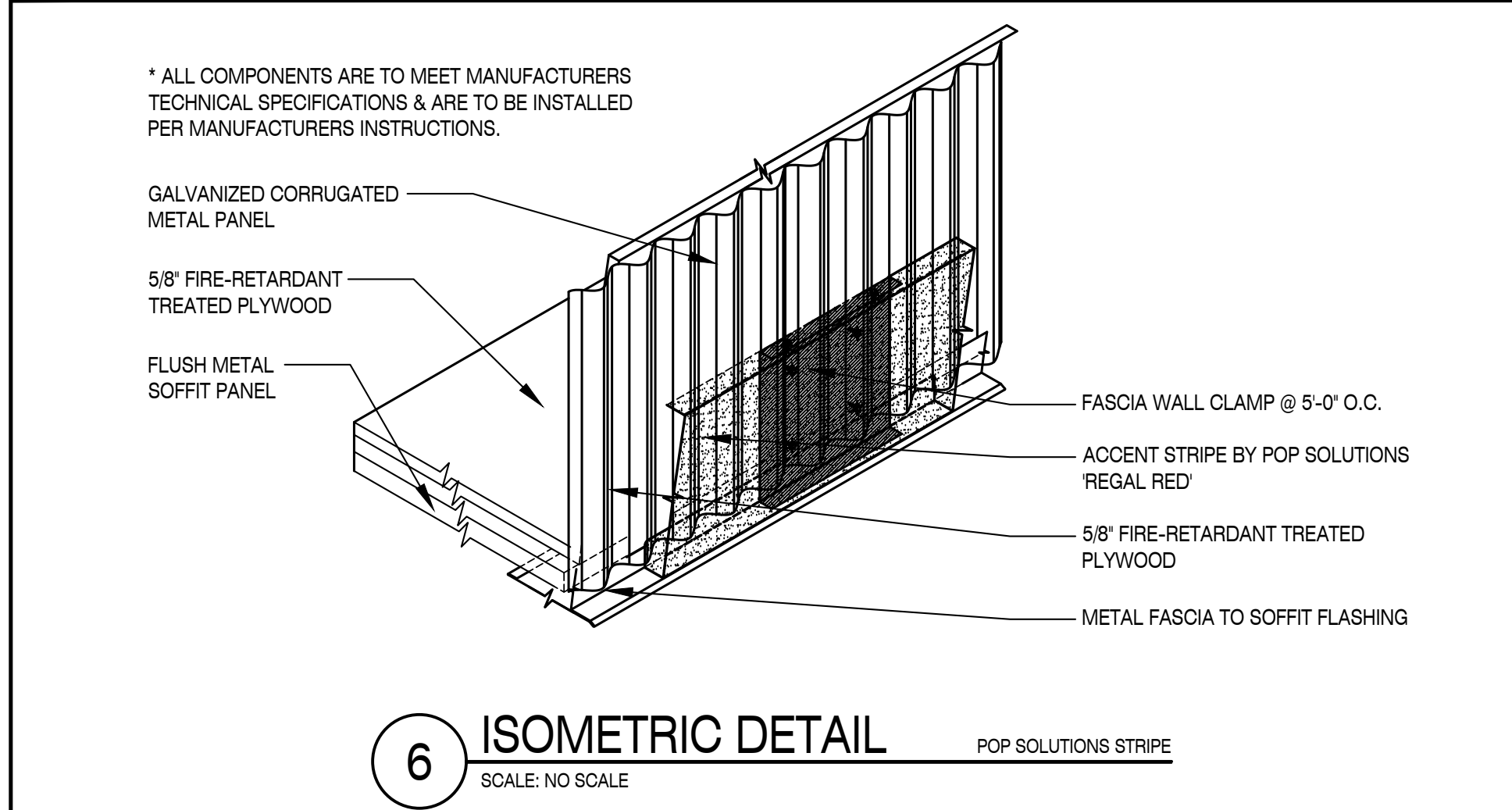
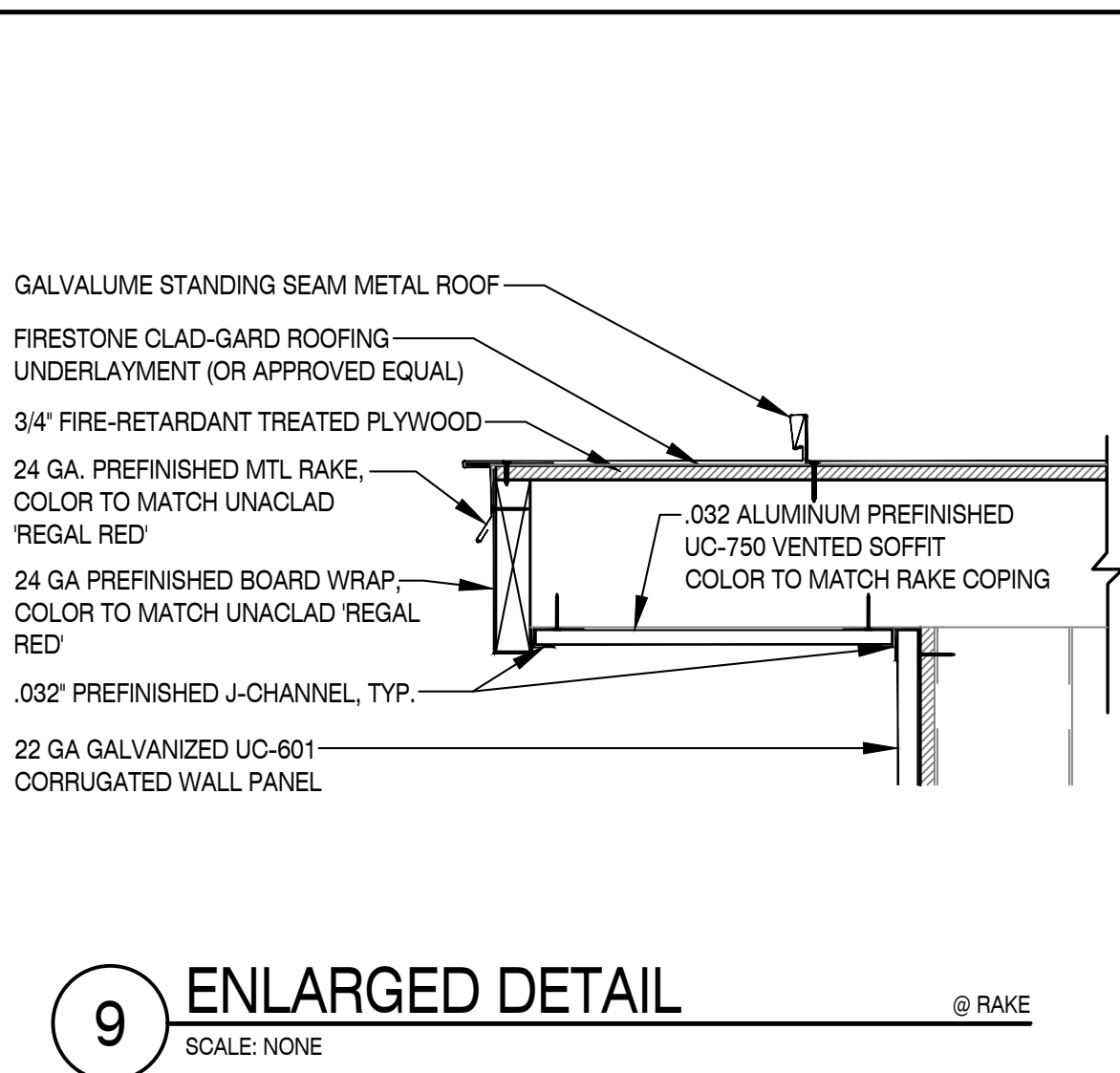
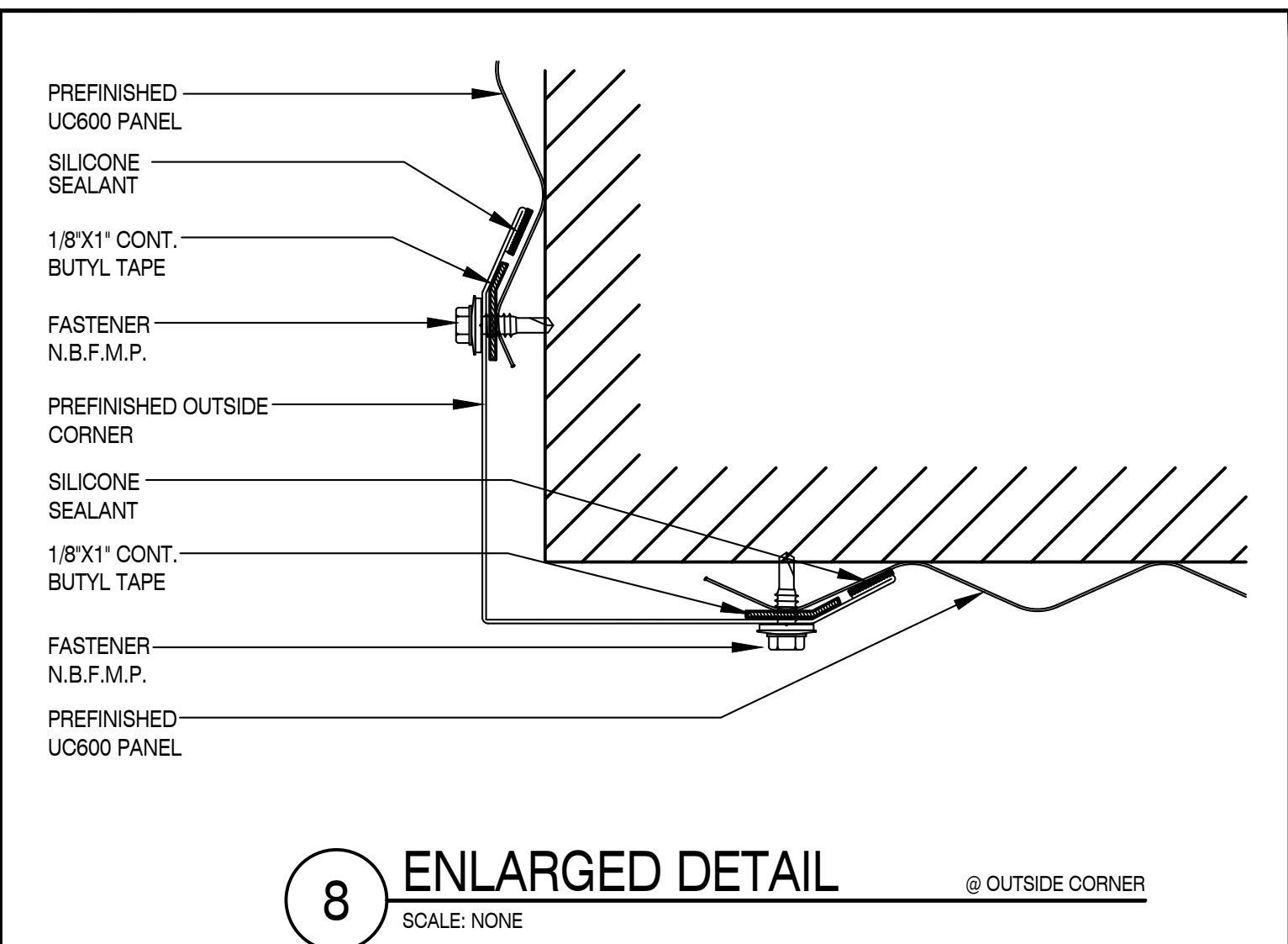
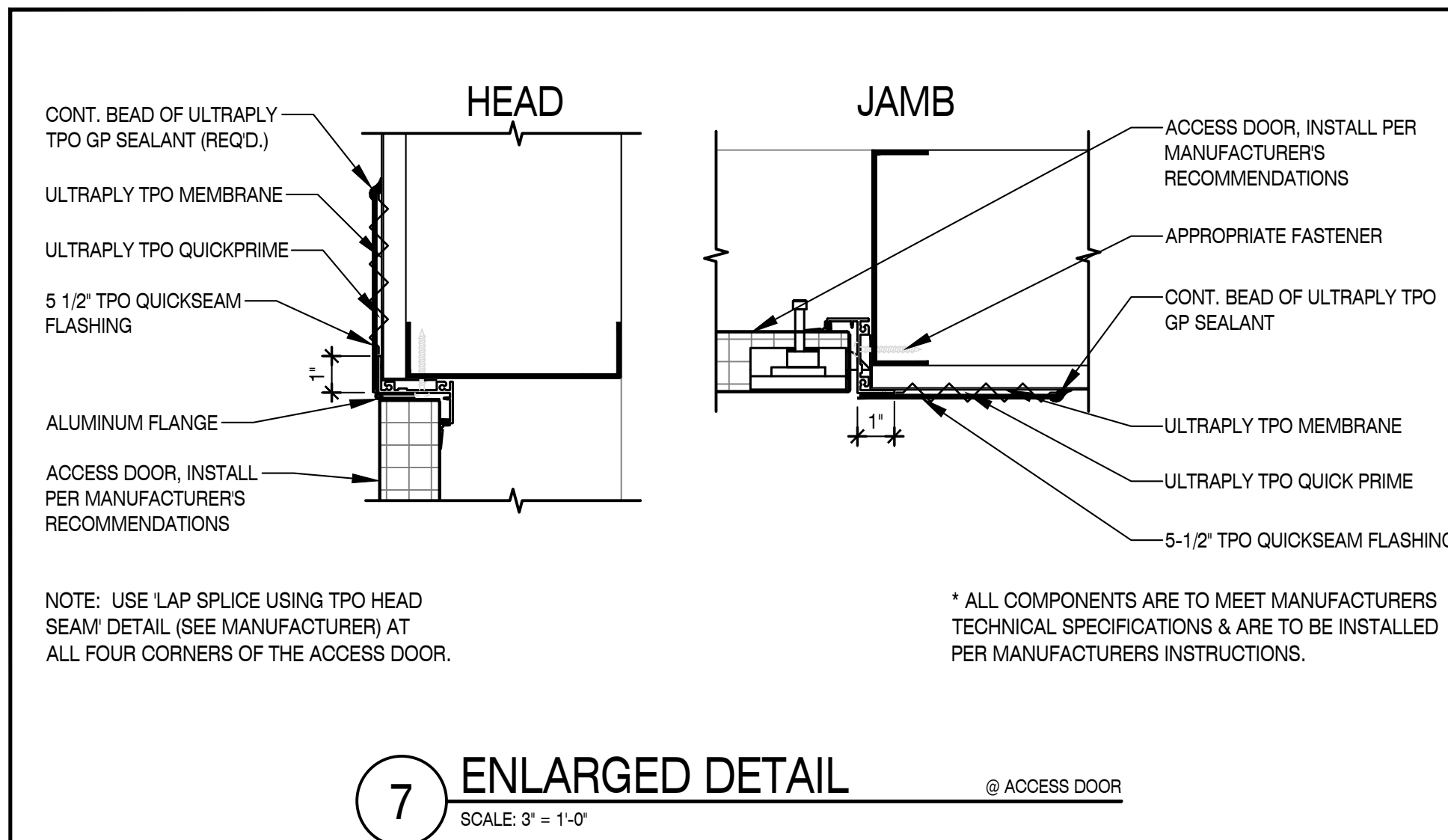
Date: 03.22.2024

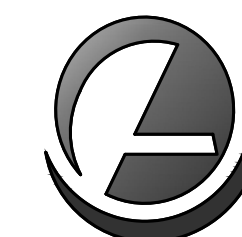
Revisions:

Revisions:

Revisions: SECTIONS & DETAILS

Sheet Number: A4.1

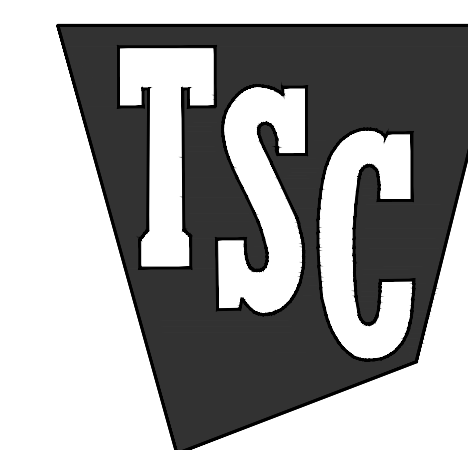




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Date: 03.22.2024

Revisions:

Revisions:

Revisions:

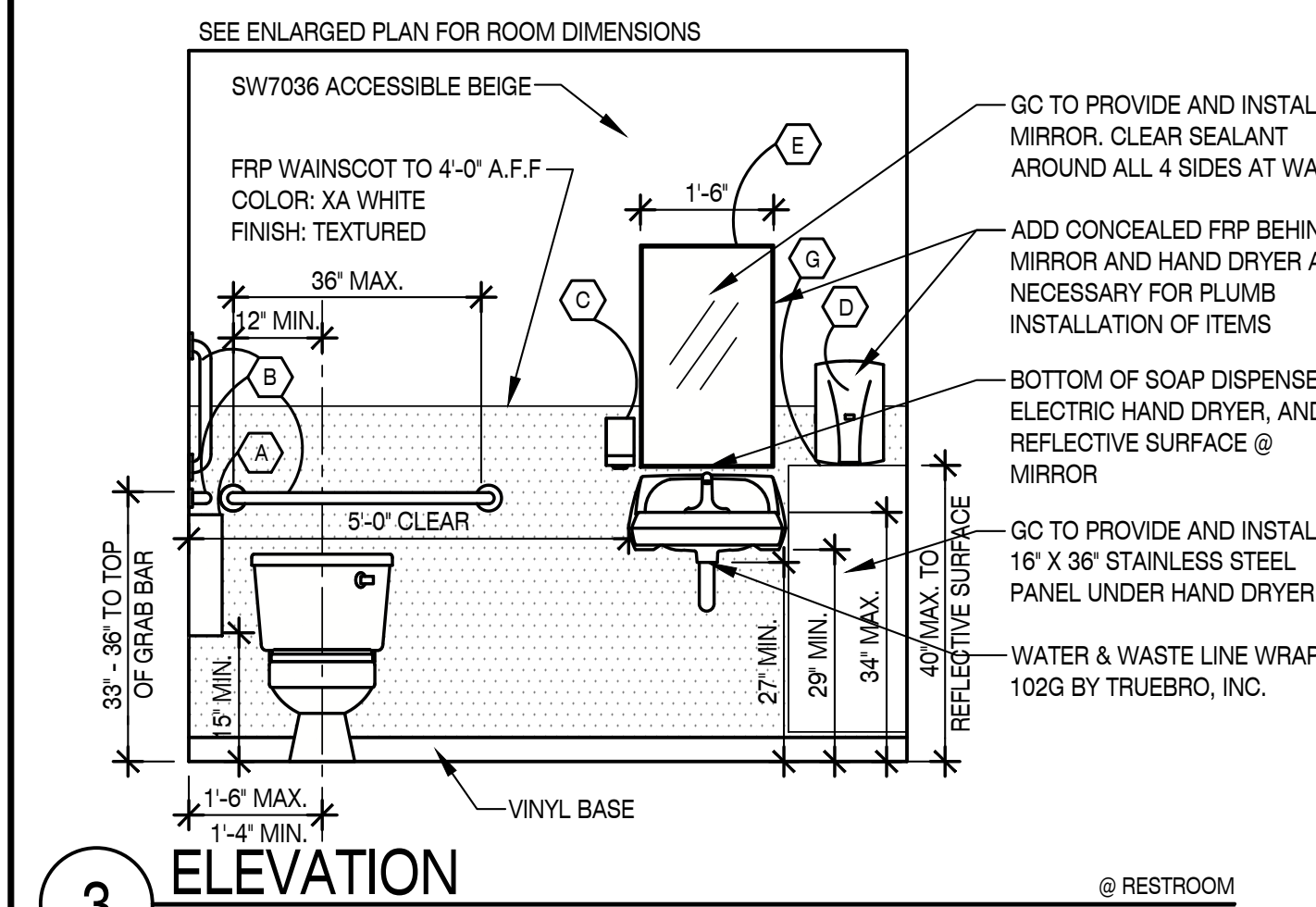
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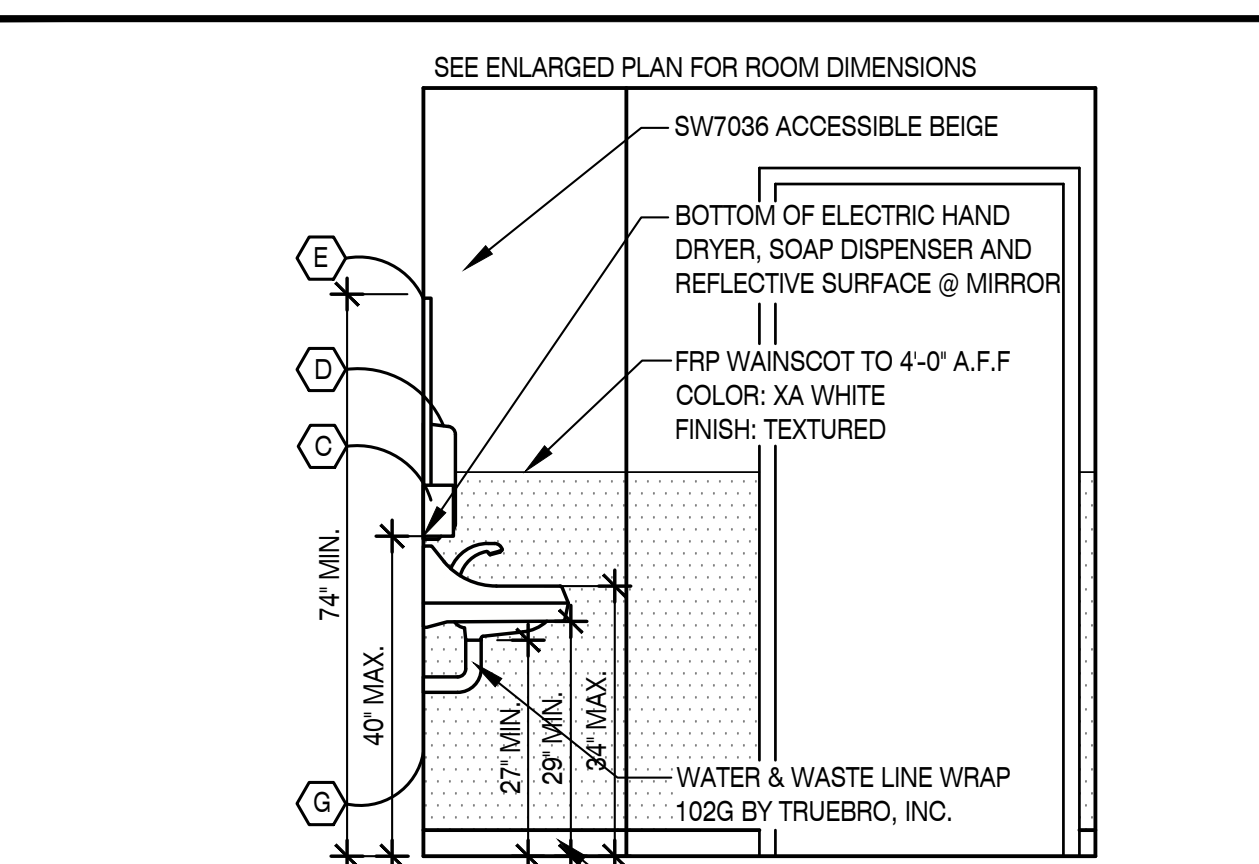
TOILET ACCESSORIES SCHEDULE

TYPE	MANUF.	MODEL #	MOUNTING HT.
A TOILET PAPER DISPENSER	F.B.O., I.B.C.	8320-001-18	39" - 41" TO BOTTOM
B GRAB BAR	BRADLEY	8320-001-36	33" - 36" TO TOP, MAX.
C SOAP DISPENSER	F.B.O., I.B.C.	8320-001-42	33" - 36" TO TOP, MAX.
D VERDEDRI	WORLD DRYER	Q-974A	40" MAX. TO CONTROL UNIT
E 1/4" POLISHED PLATE GLASS MIRROR, 18" X 36"			40" TO BOTTOM OF REFLECTIVE SURFACE
F PAPER TOWEL DISPENSER	F.B.O., I.B.C.		40" MAX. TO CONTROL
G STAINLESS STEEL WALL PANEL, 18" X 36"			40" MAX. TO TOP

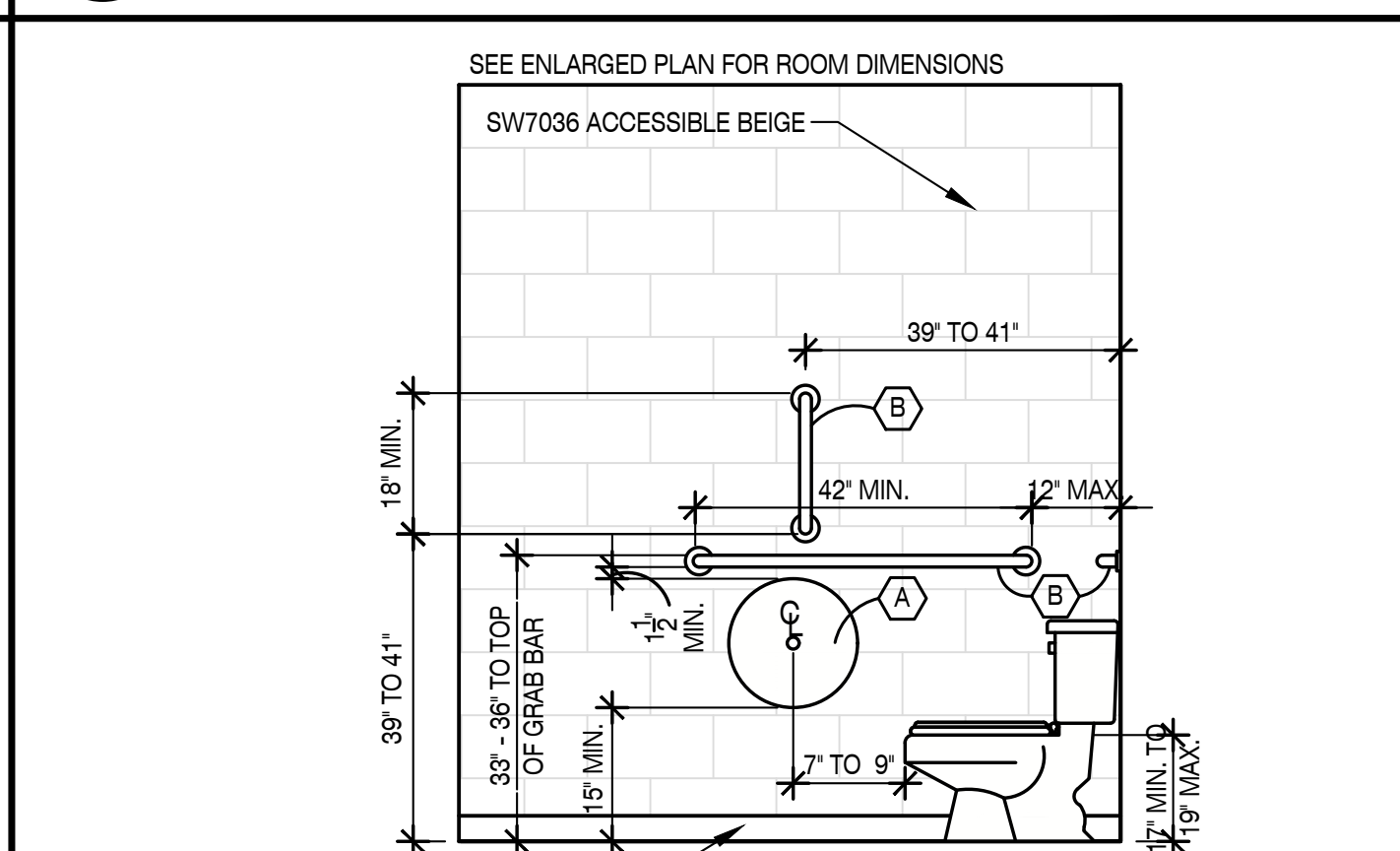
- NOTE:
- ALL HAND DRYERS, MIRRORS, STAINLESS STEEL WALL PANEL, AND GRAB BARS TO BE PROVIDED AND INSTALLED BY GC. TSC IS NOT RESPONSIBLE.
 - F.B.O., I.B.C. (FURNISHED BY OWNER, INSTALLED BY CONTRACTOR)
 - FLUSH CONTROL SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET PER ICCANSI 117.1 SECTION 504.6.
 - FRP TO 4'-0" A.F.F. ON ALL WALLS EXCEPT CMU UNLESS NOTED OTHERWISE.
 - ALL PLUMBING FIXTURES TO BE ANCHORED PER ALL ANCHOR POINTS.
 - PROVIDE CEILING BATT INSULATION FOR RESTROOMS.
 - NO ITEMS SHALL BE LOCATED FROM FLOOR TO CEILING WITHIN 18" OF THE EDGE OF THE FULL-SIDE OF THE BATHROOM DOORS.



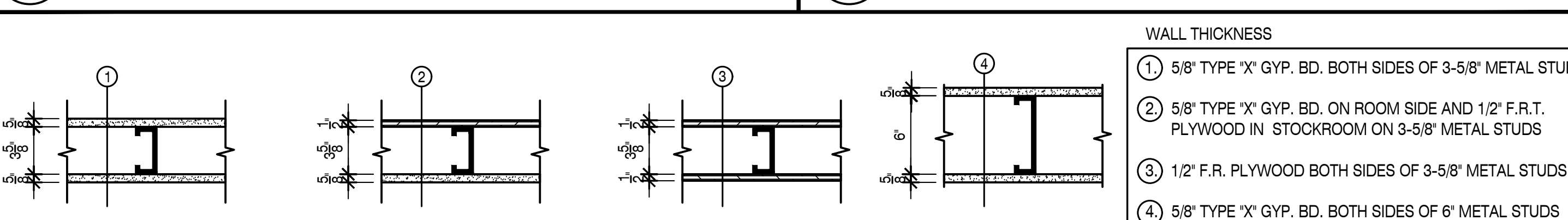
3 ELEVATION
SCALE: 1/2" = 1'-0"



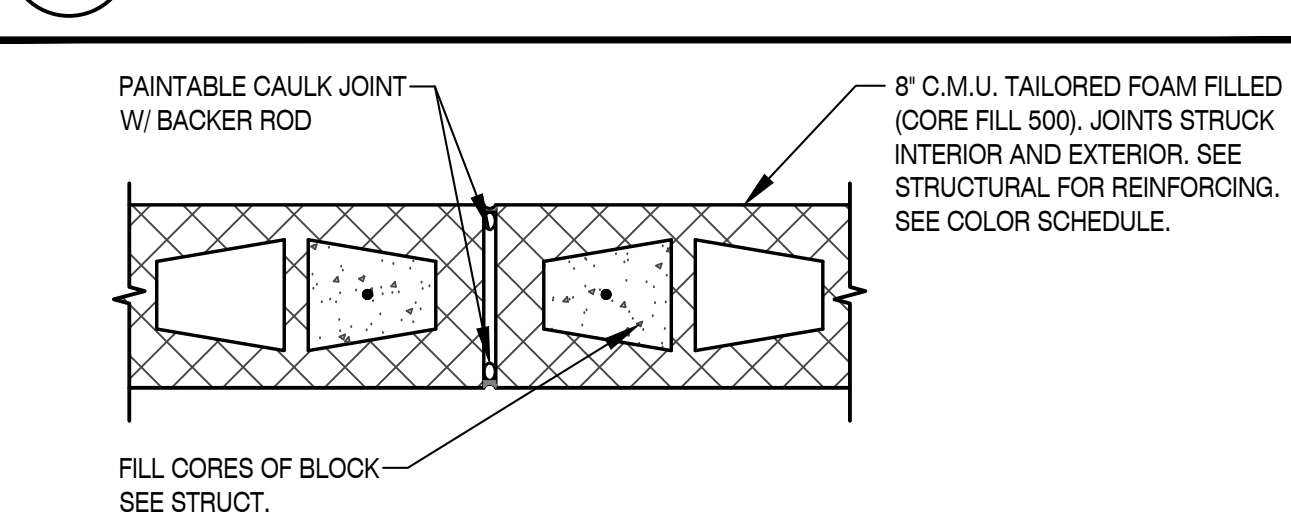
4 ELEVATION
SCALE: 1/2" = 1'-0"



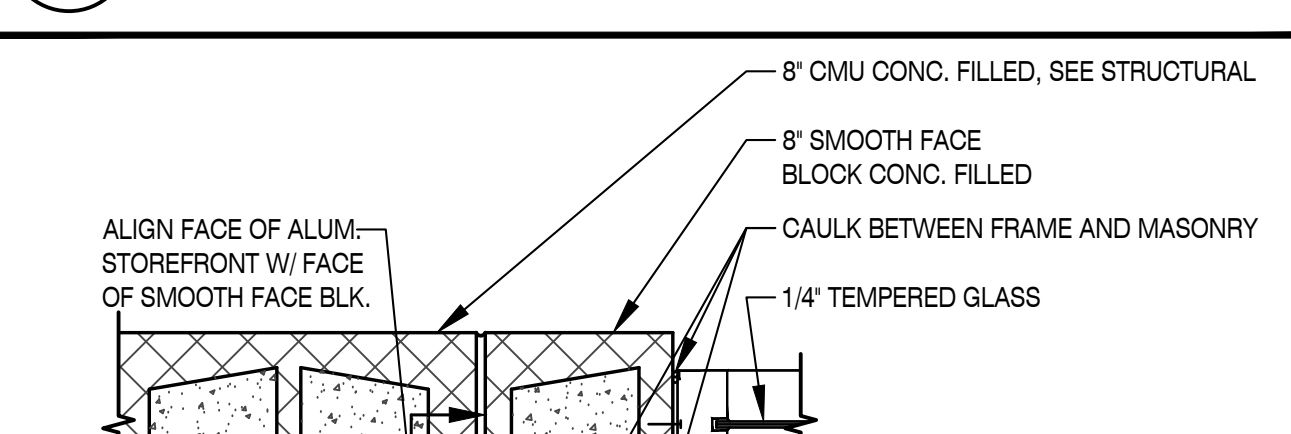
2 ELEVATION
SCALE: 1/2" = 1'-0"



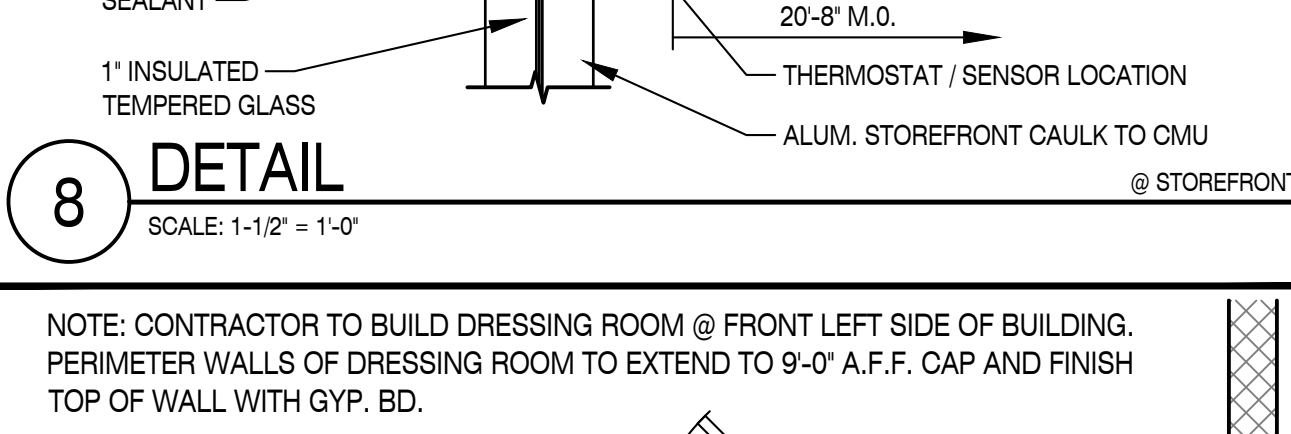
10 DETAIL
SCALE: 1-1/2" = 1'-0"



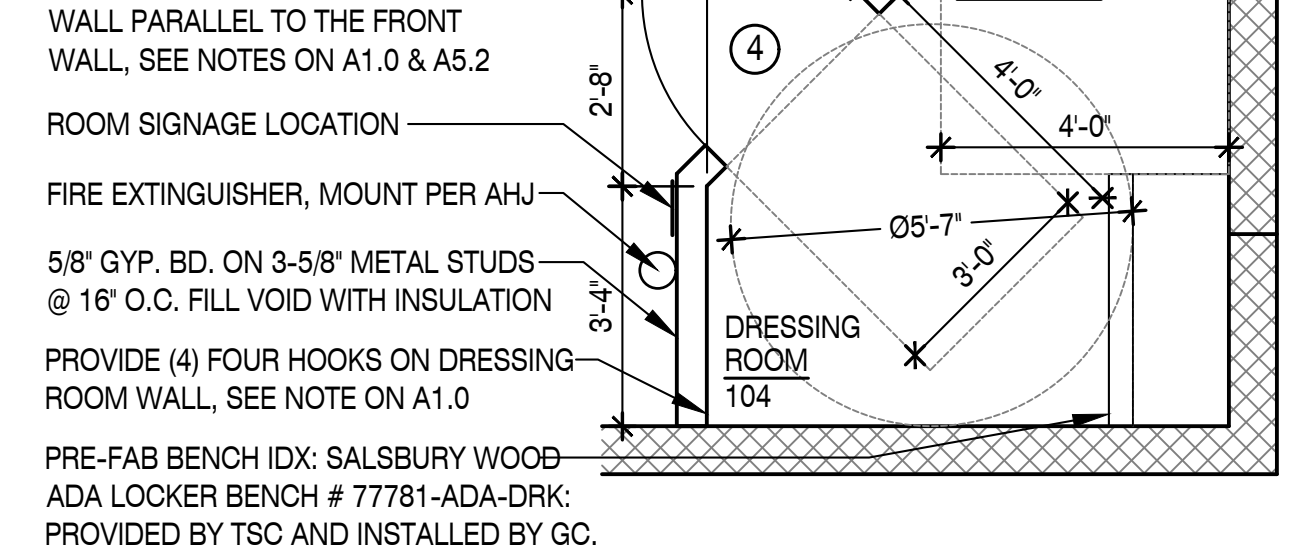
9 DETAIL
SCALE: 1-1/2" = 1'-0"



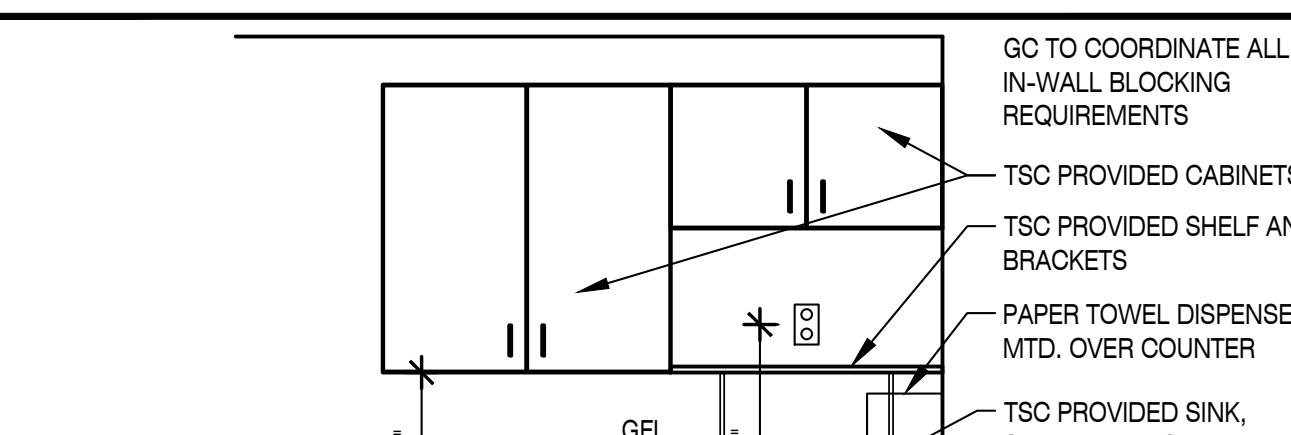
8 DETAIL
SCALE: 1-1/2" = 1'-0"



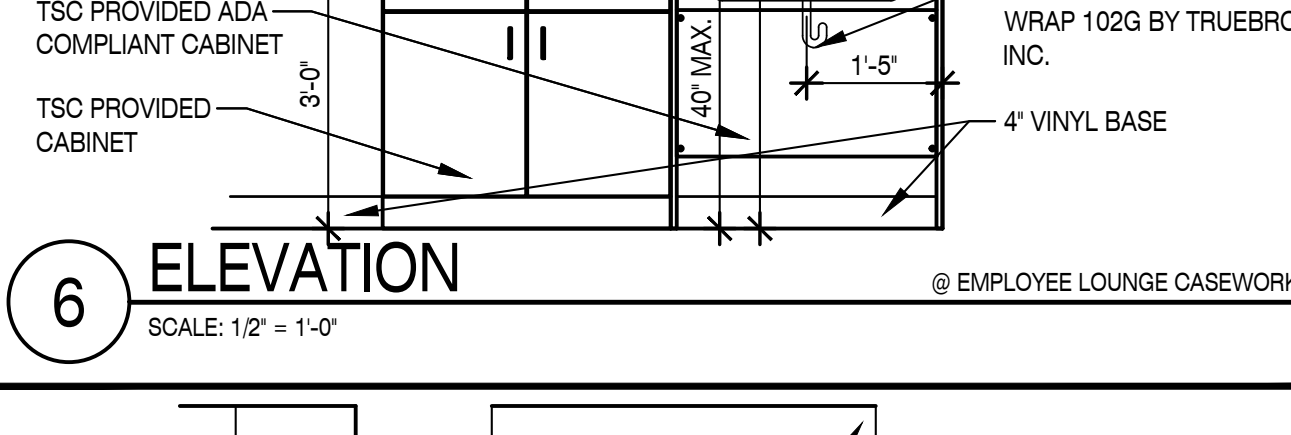
7 ENLARGED DRESSING ROOM PLAN
SCALE: 3/8" = 1'-0"



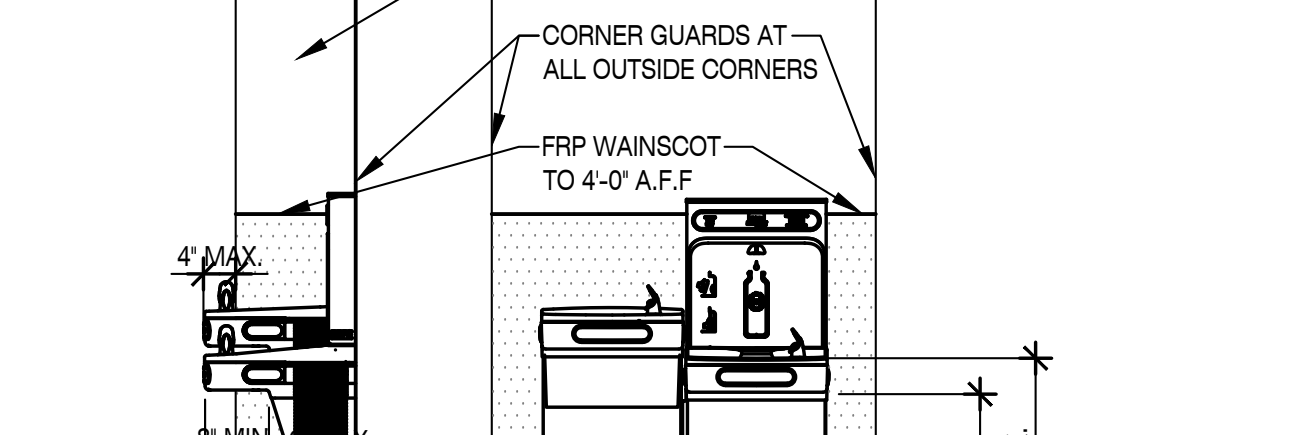
6 ELEVATION
SCALE: 1/2" = 1'-0"



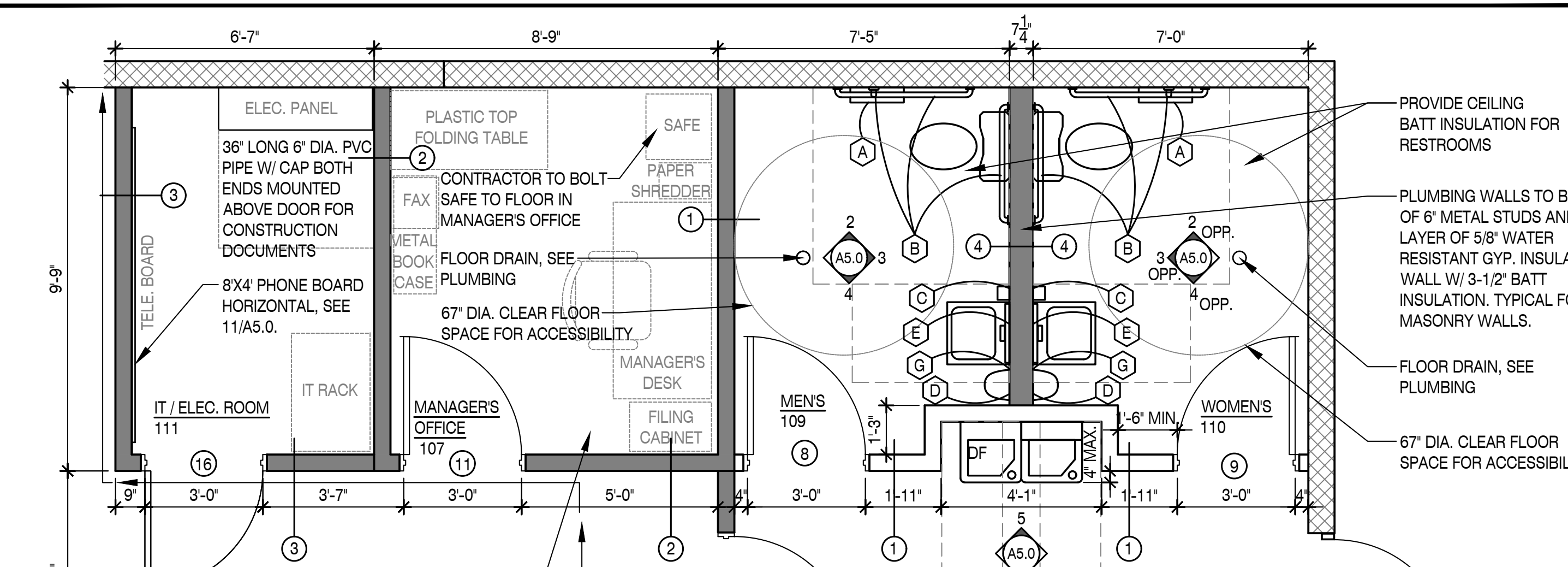
5 ELEVATION
SCALE: 1/2" = 1'-0"



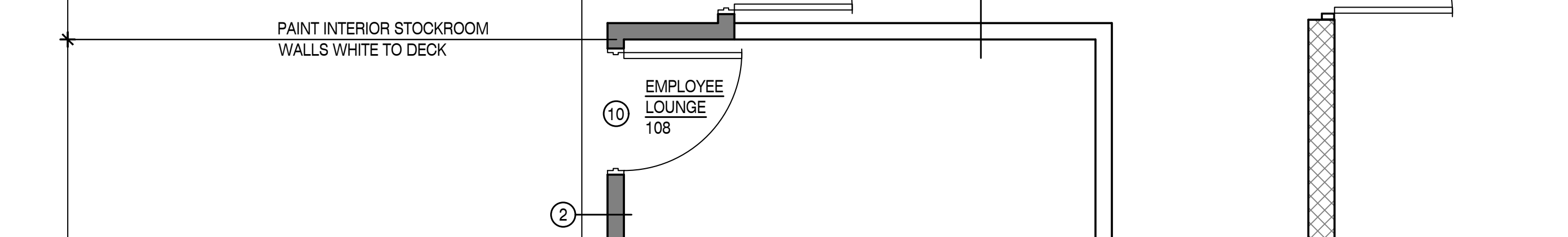
11 ELEVATION
SCALE: 1-1/2" = 1'-0"



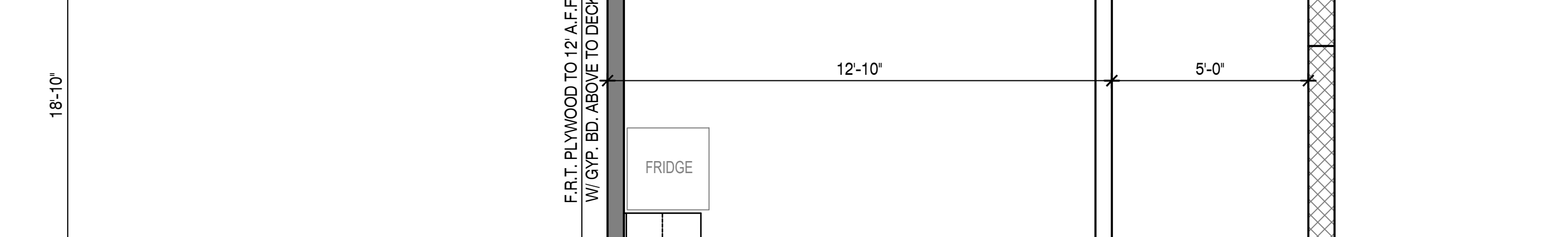
12 PLAN & ELEVATION
SCALE: 3/4" = 1'-0"



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



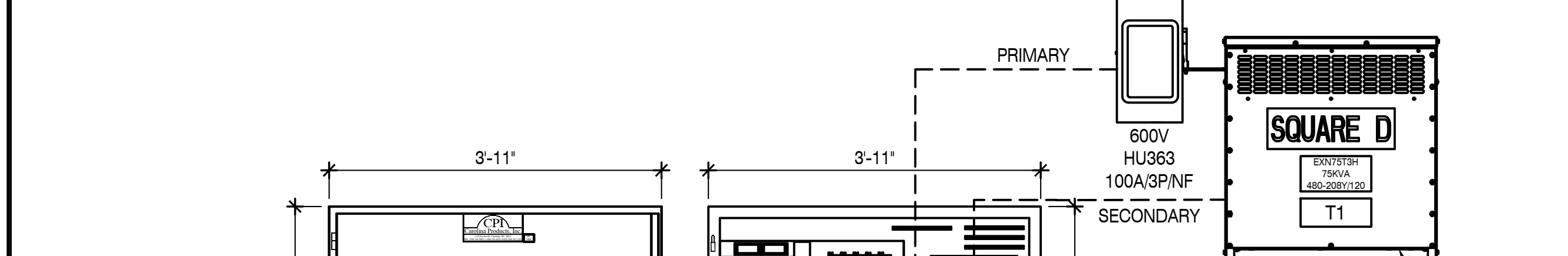
10 EMPLOYEE LOUNGE 108



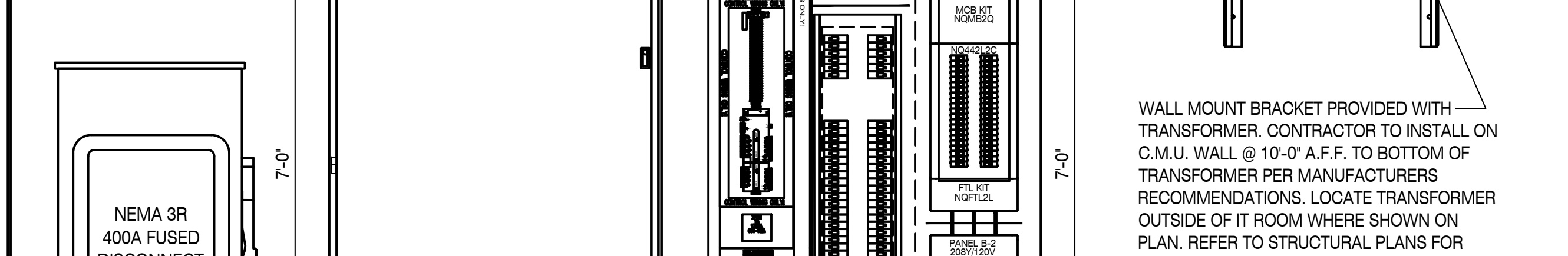
108 CORRIDOR



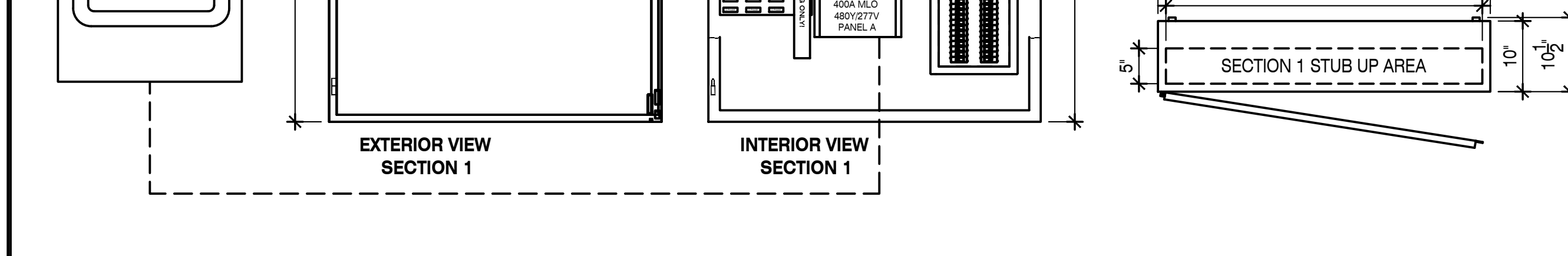
12 PLAN & ELEVATION
SCALE: 3/4" = 1'-0"



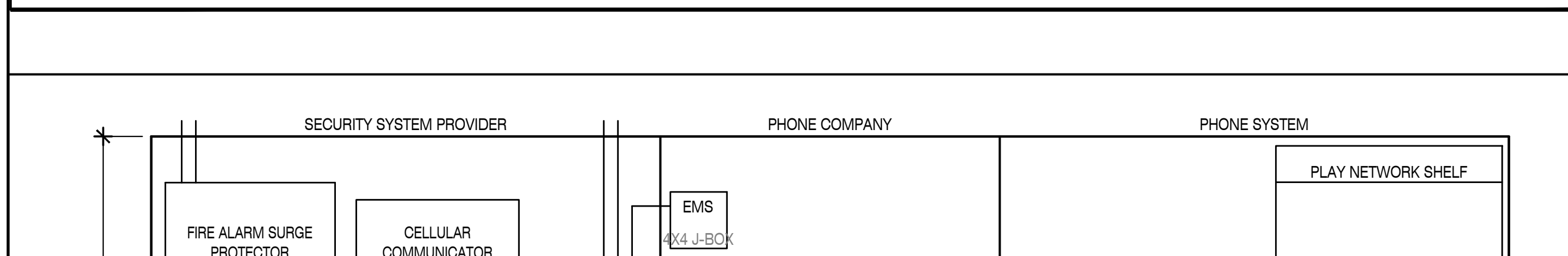
11 ELEVATION
SCALE: 1-1/2" = 1'-0"



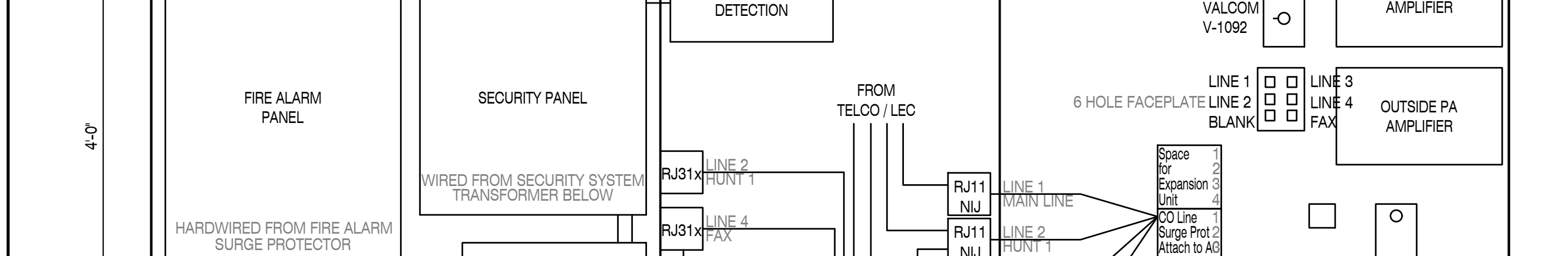
5 ELEVATION
SCALE: 1/2" = 1'-0"



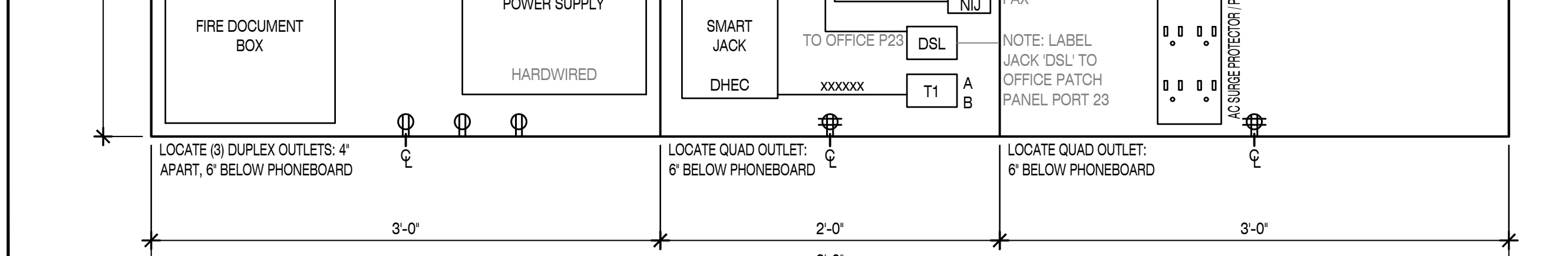
6 ELEVATION
SCALE: 1/2" = 1'-0"



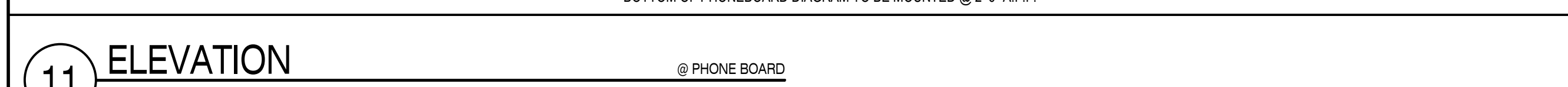
7 ENLARGED DRESSING ROOM PLAN
SCALE: 3/8" = 1'-0"



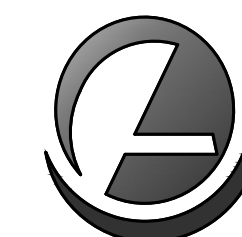
8 DETAIL
SCALE: 1-1/2" = 1'-0"



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



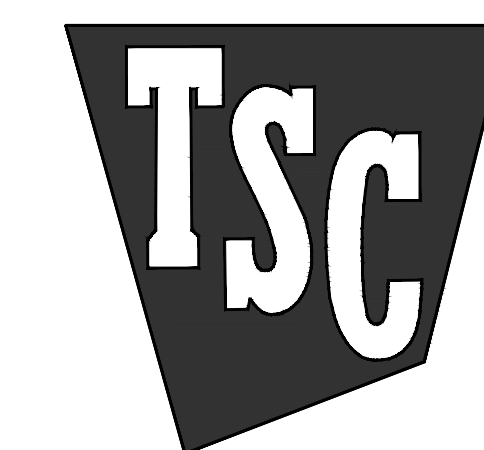
10 DETAIL
SCALE: 1-1/2" = 1'-0"



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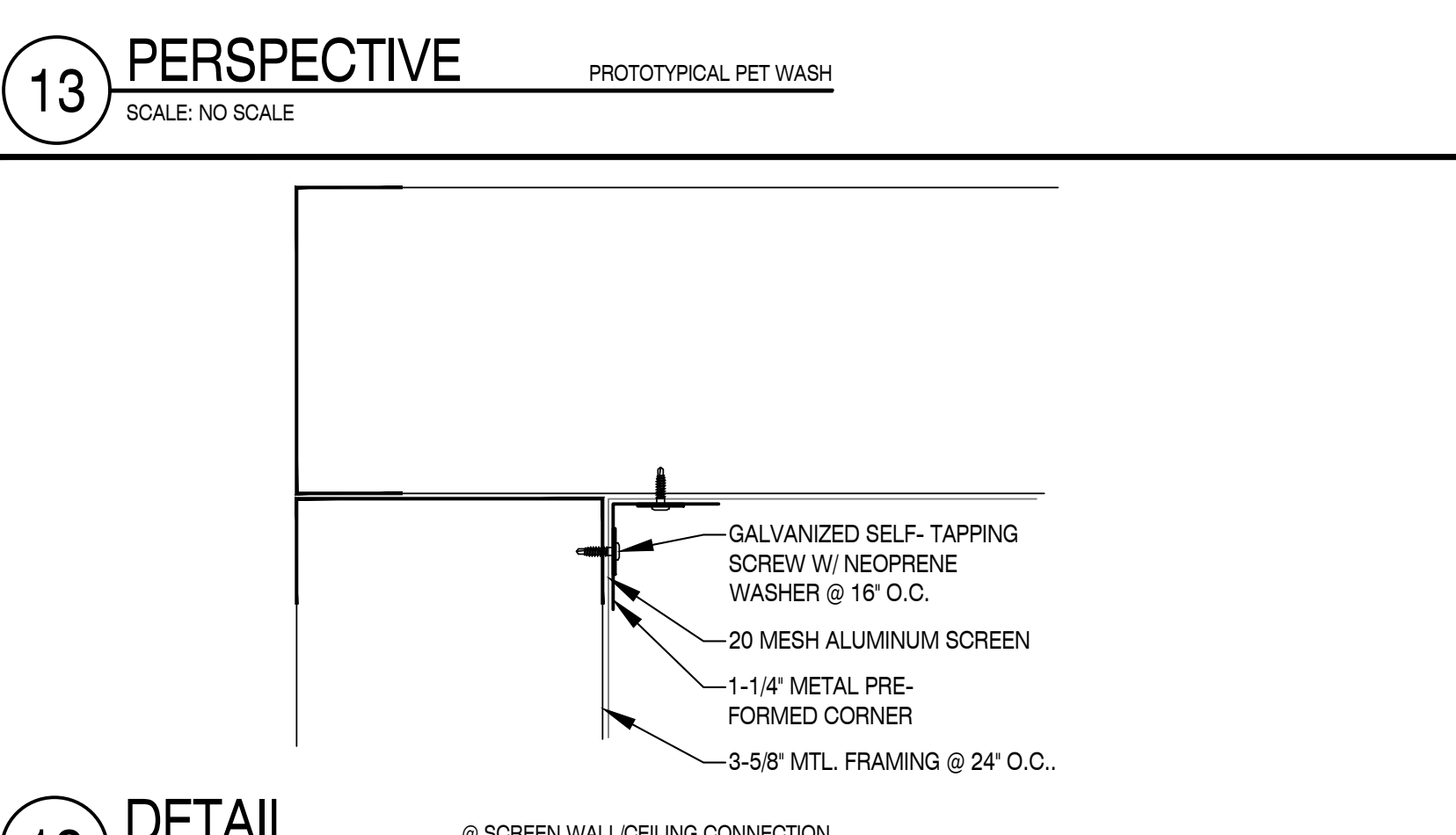
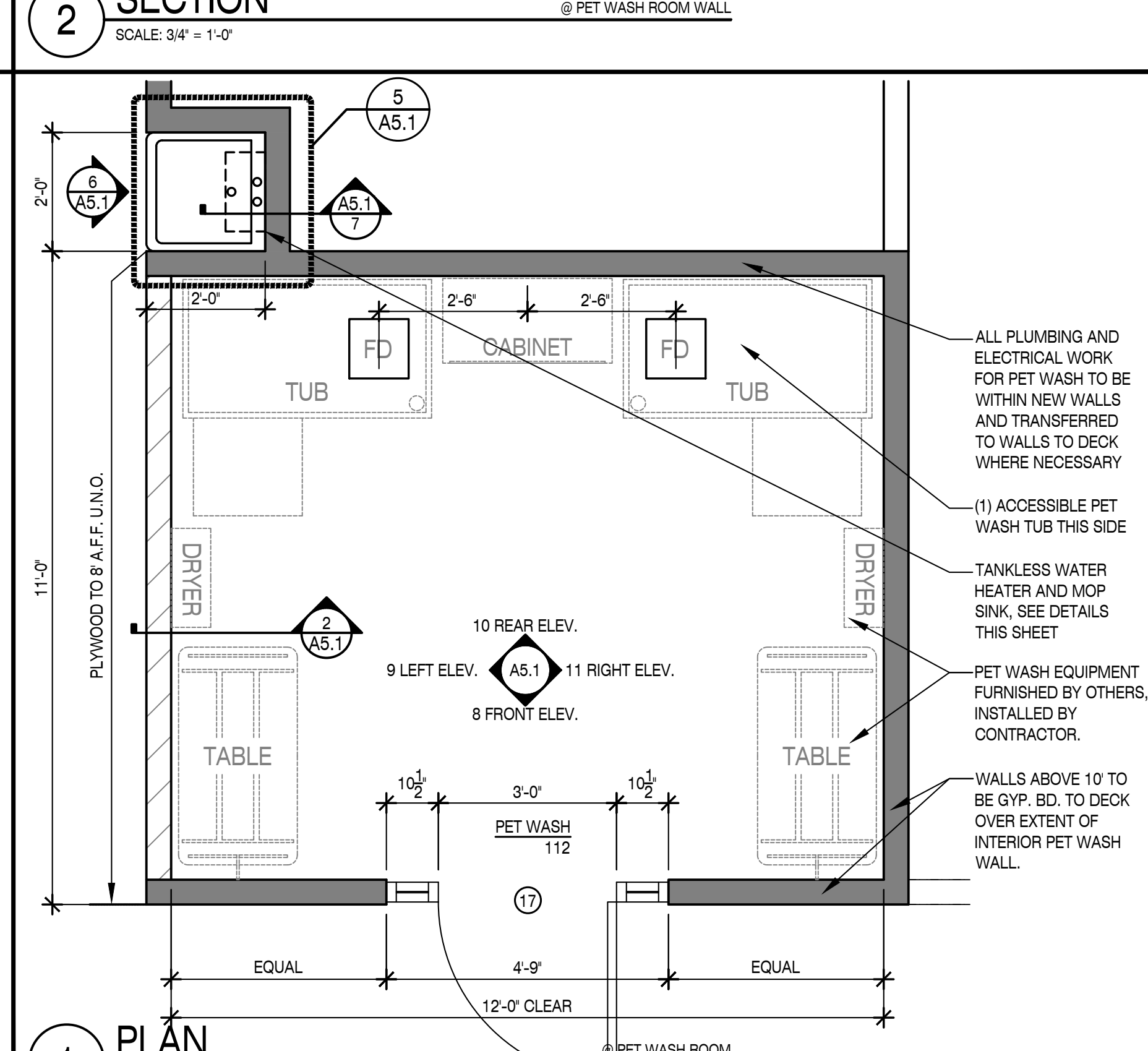
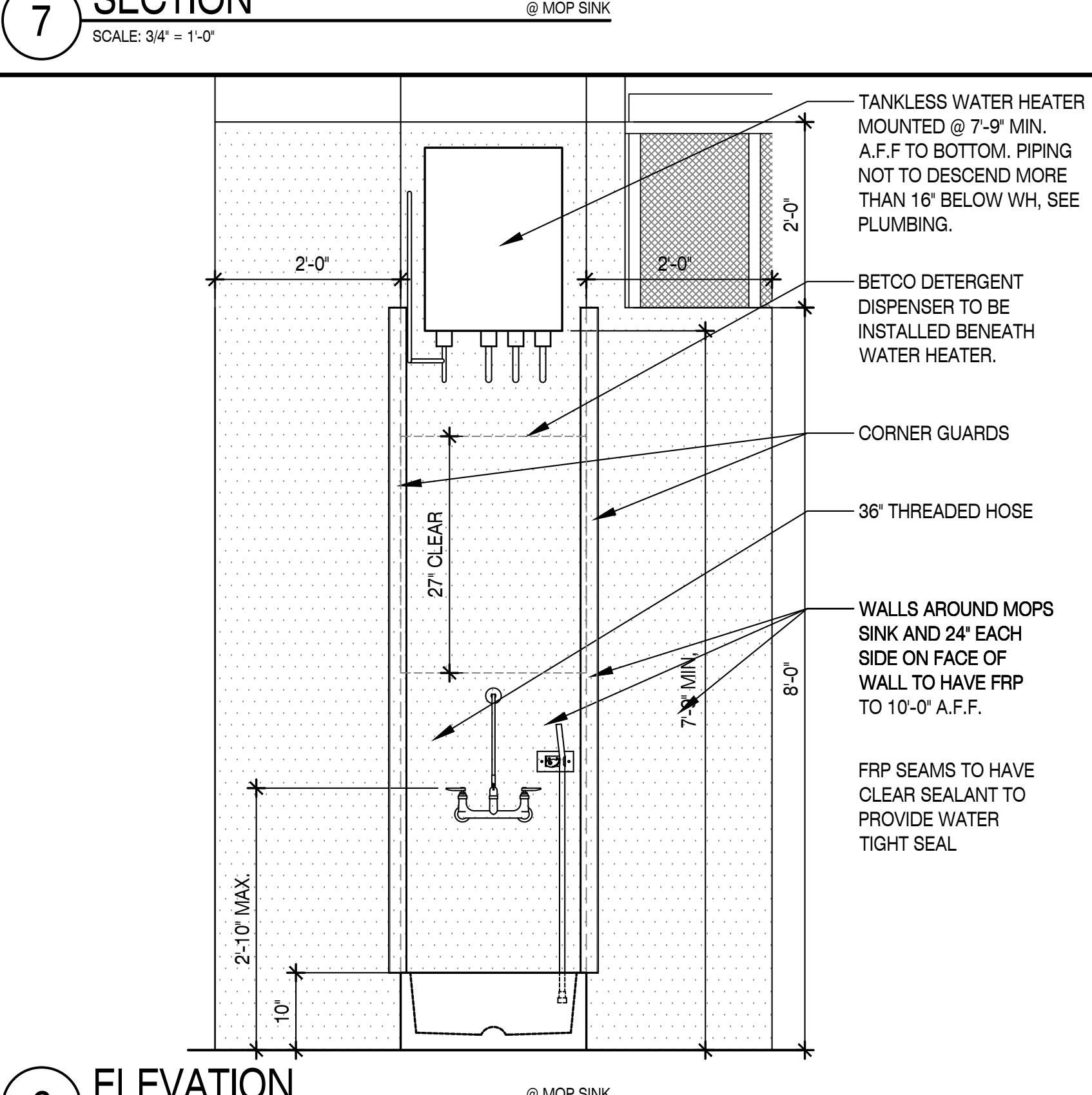
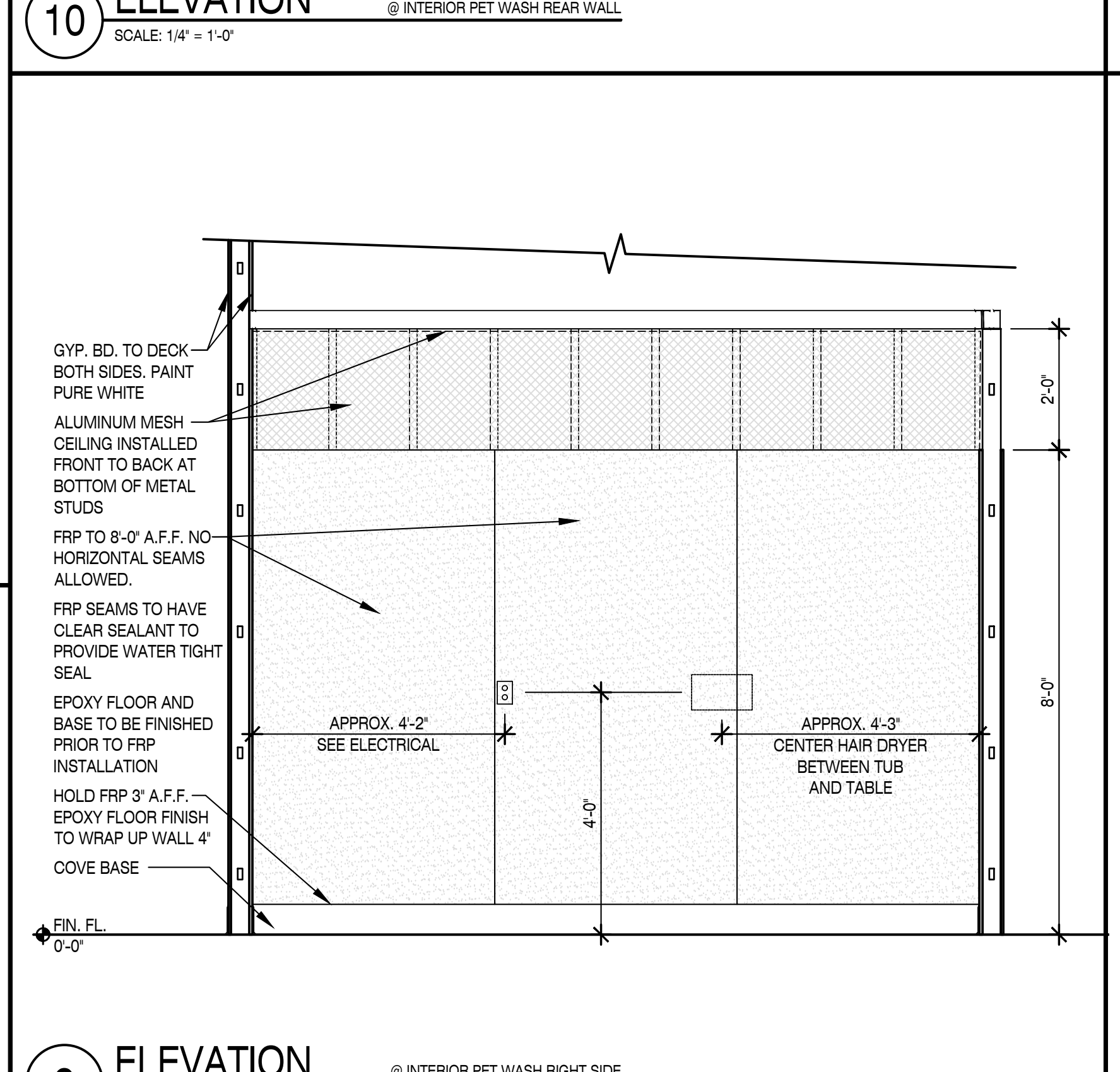
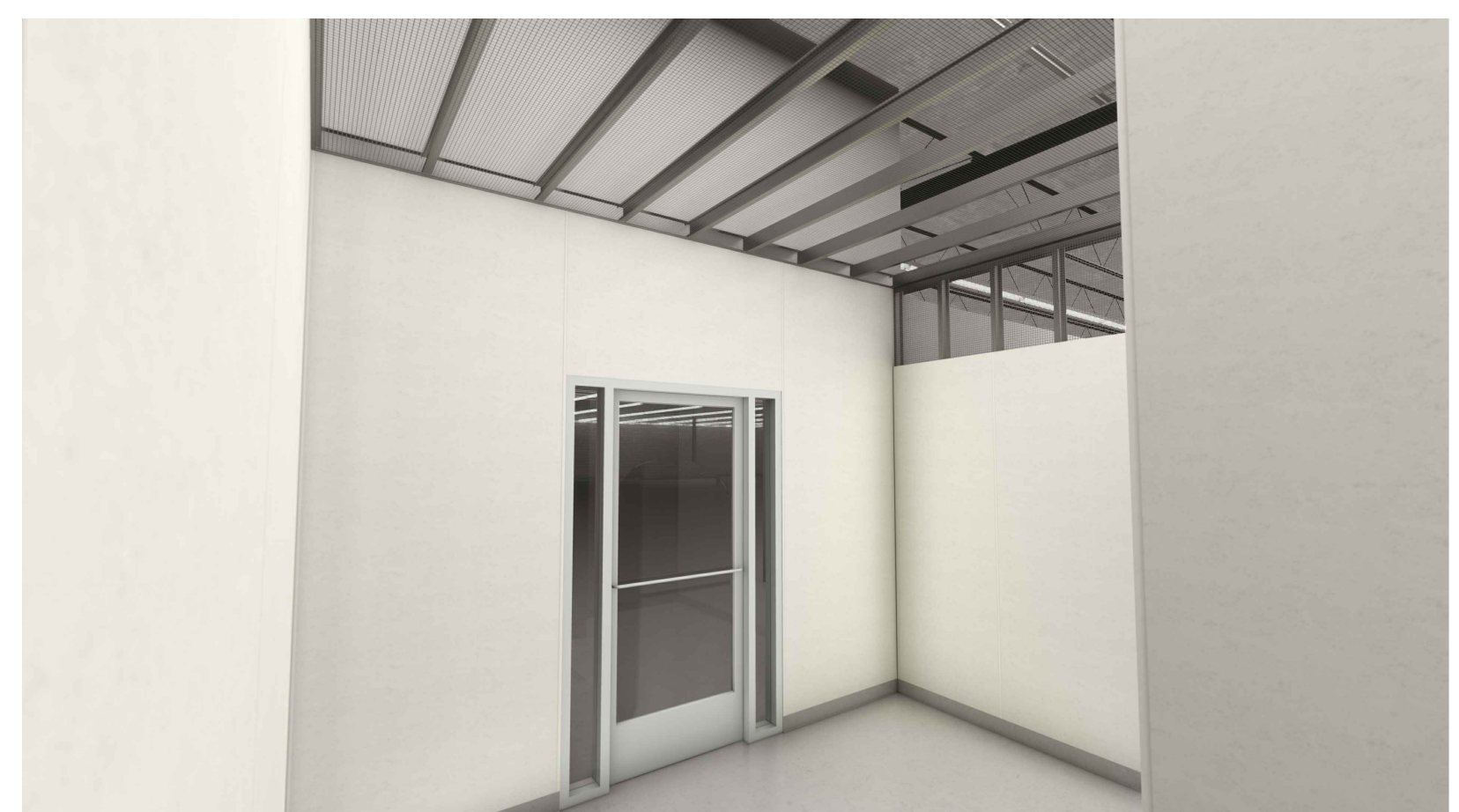
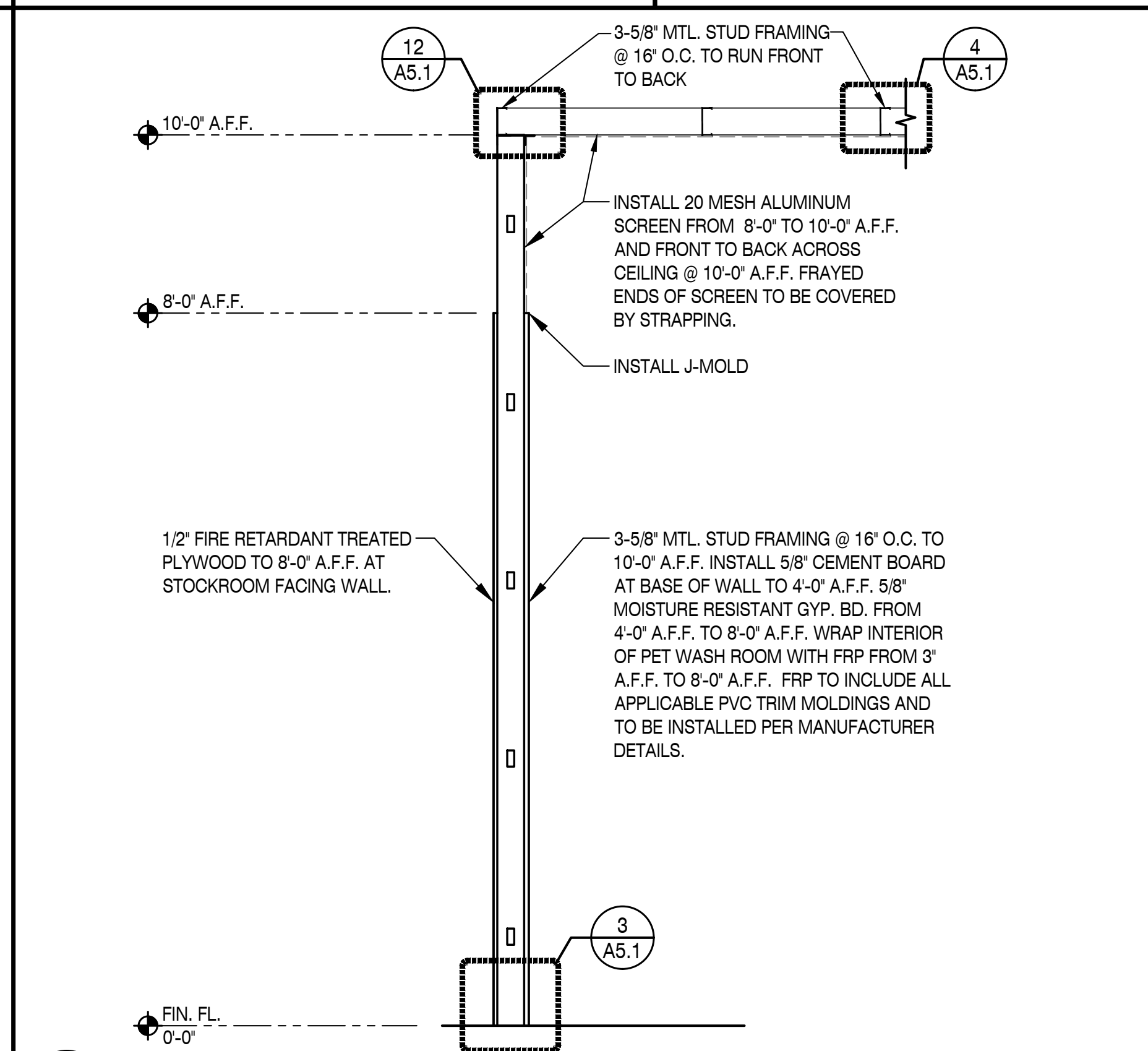
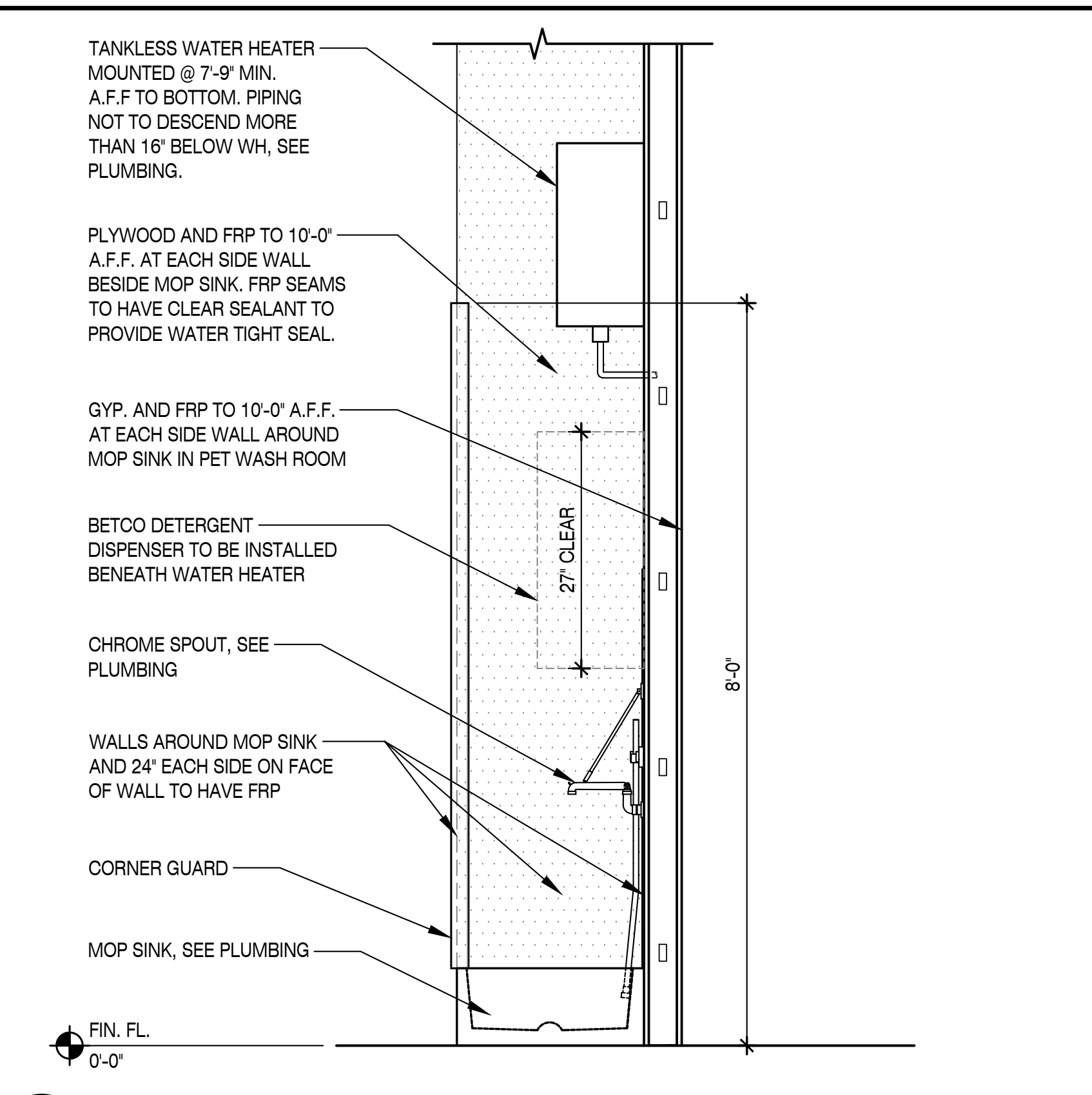
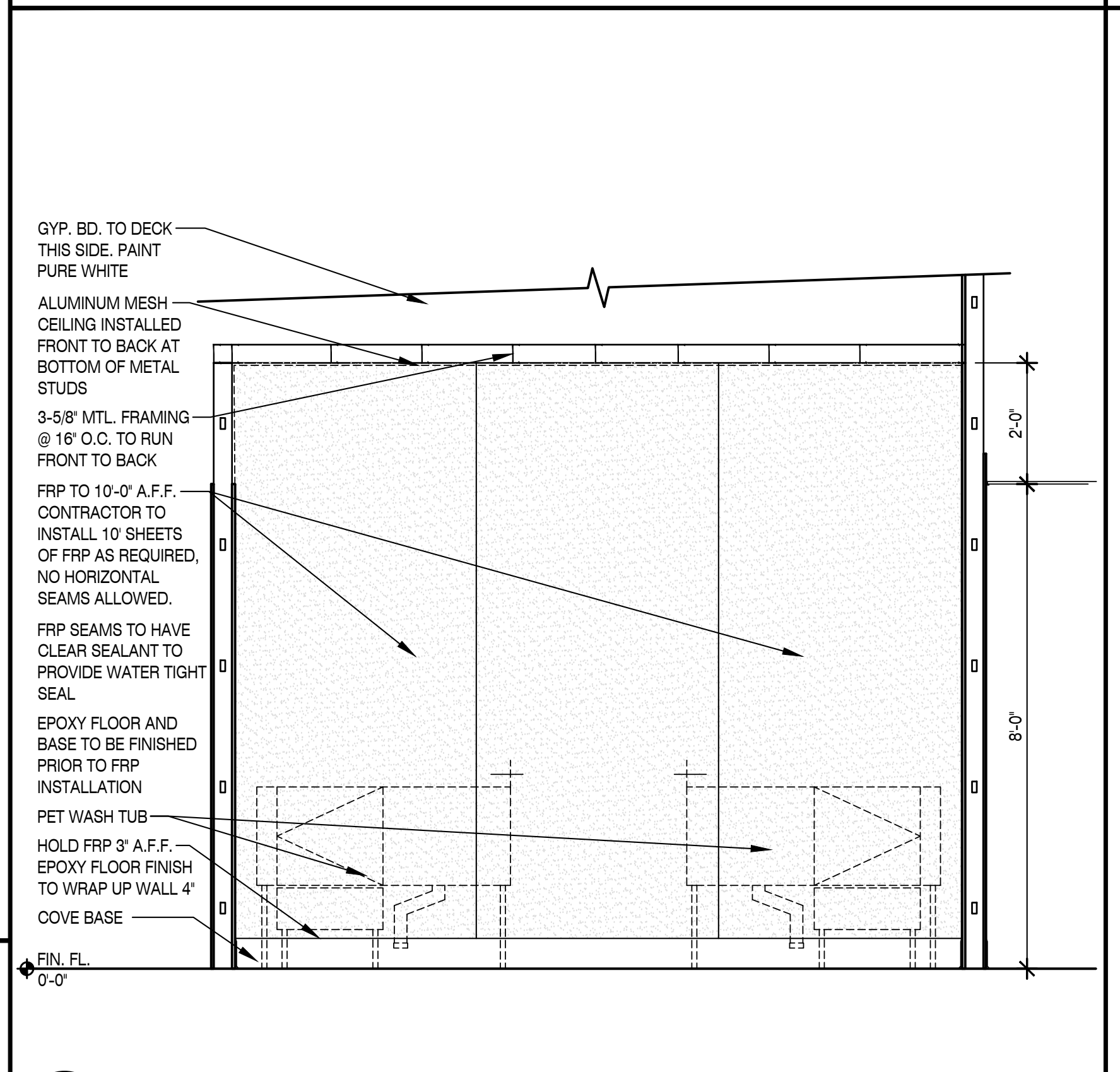
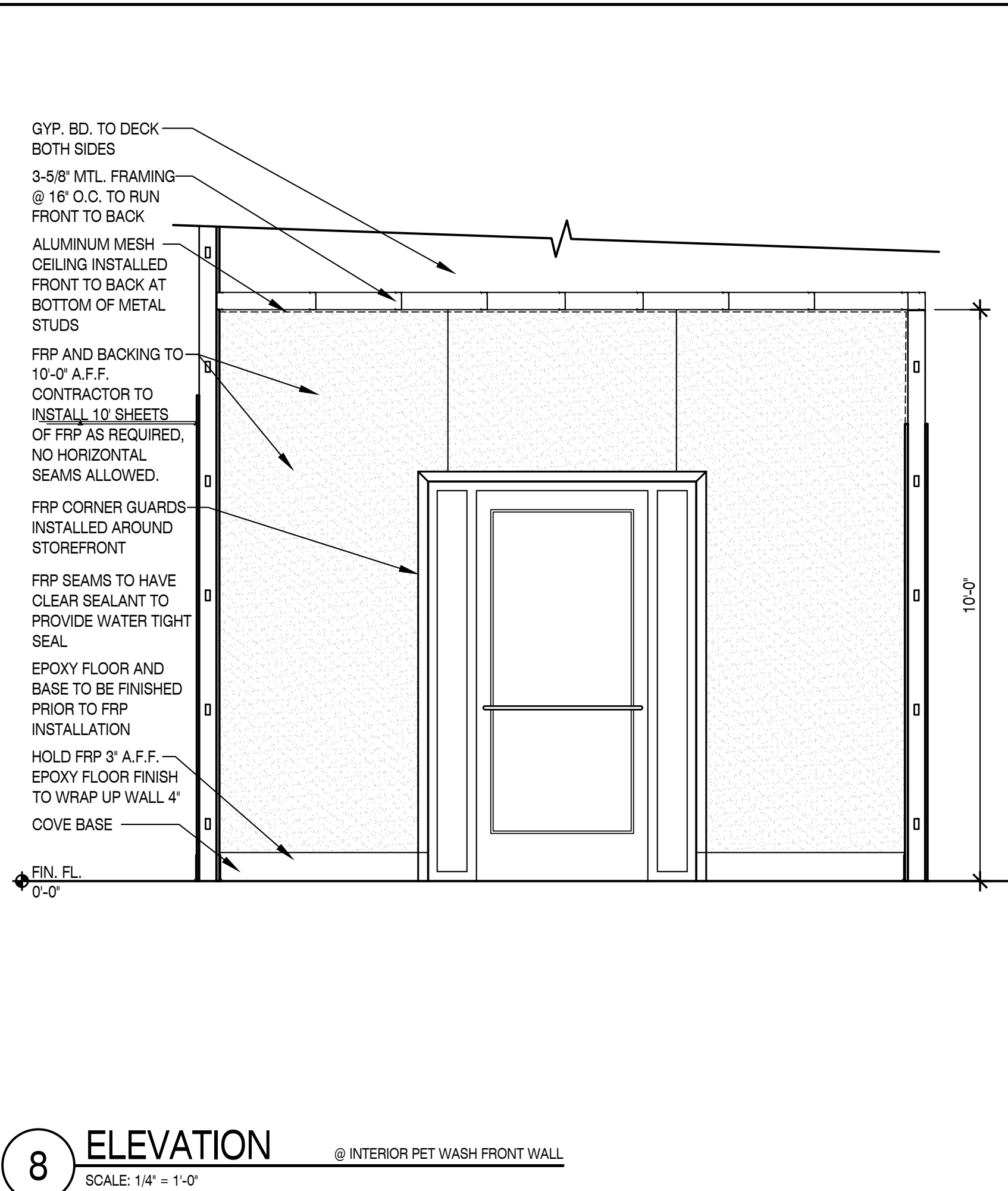
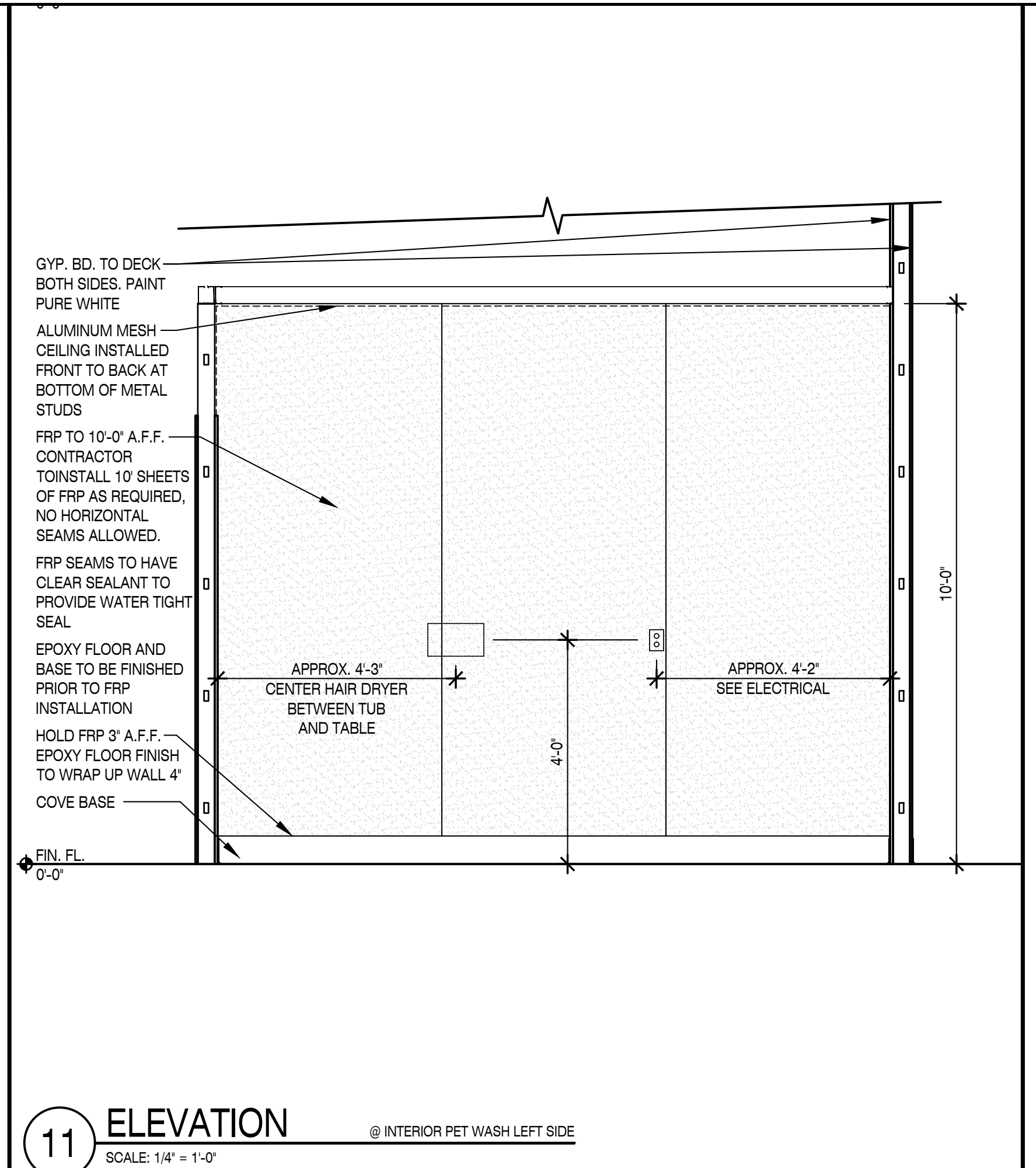
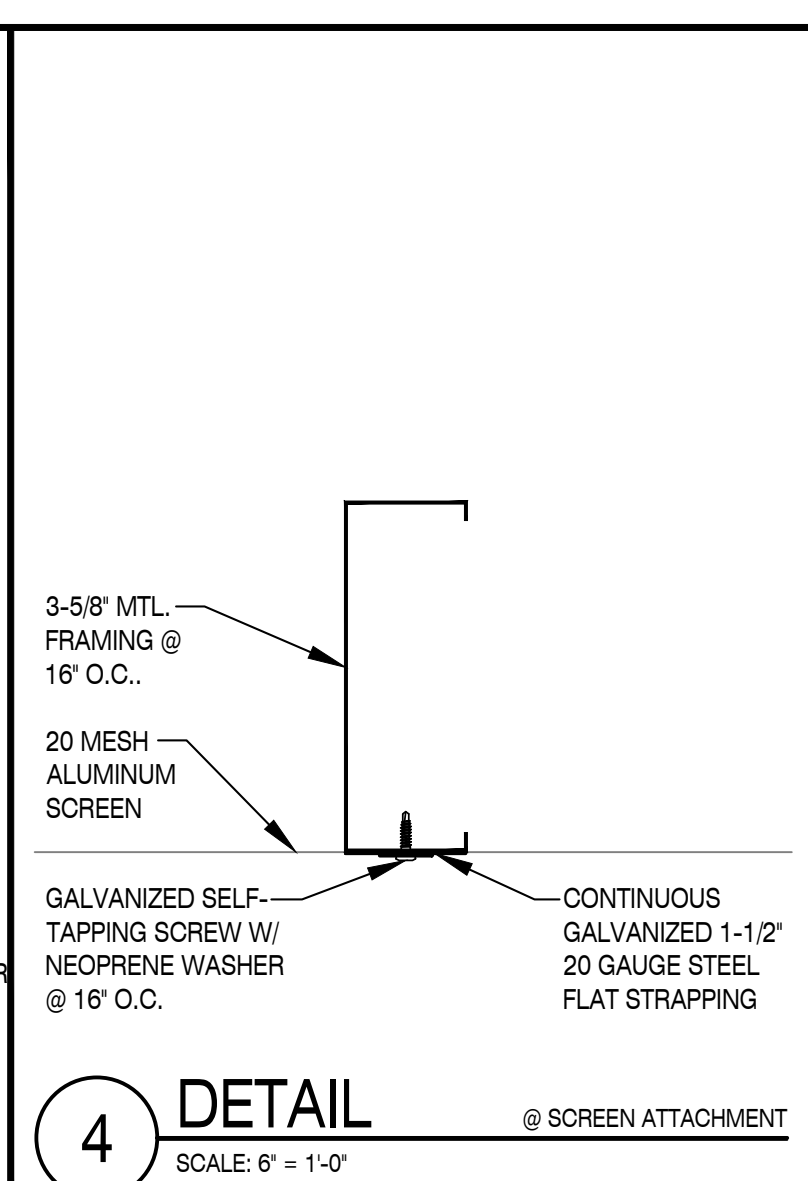
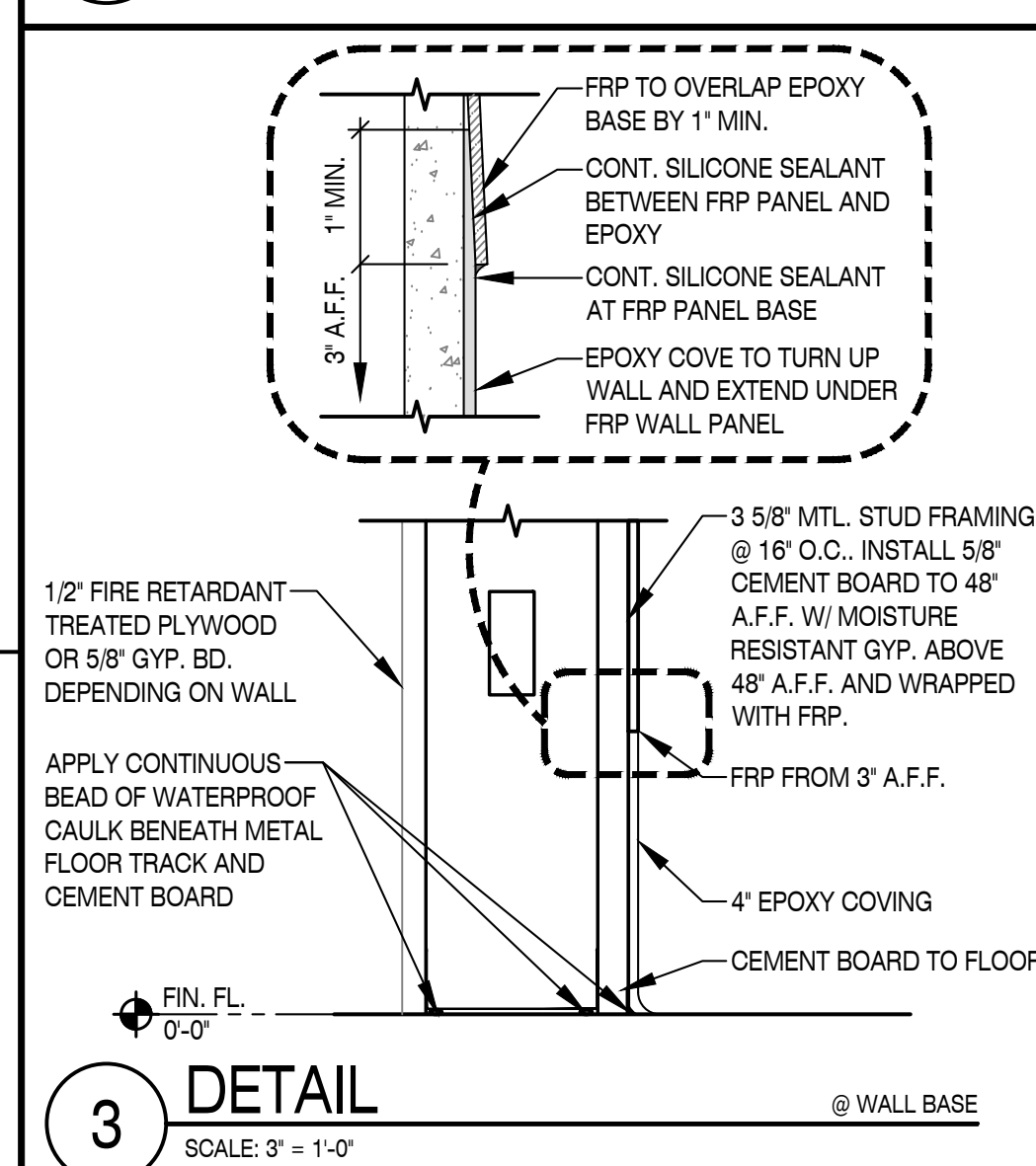
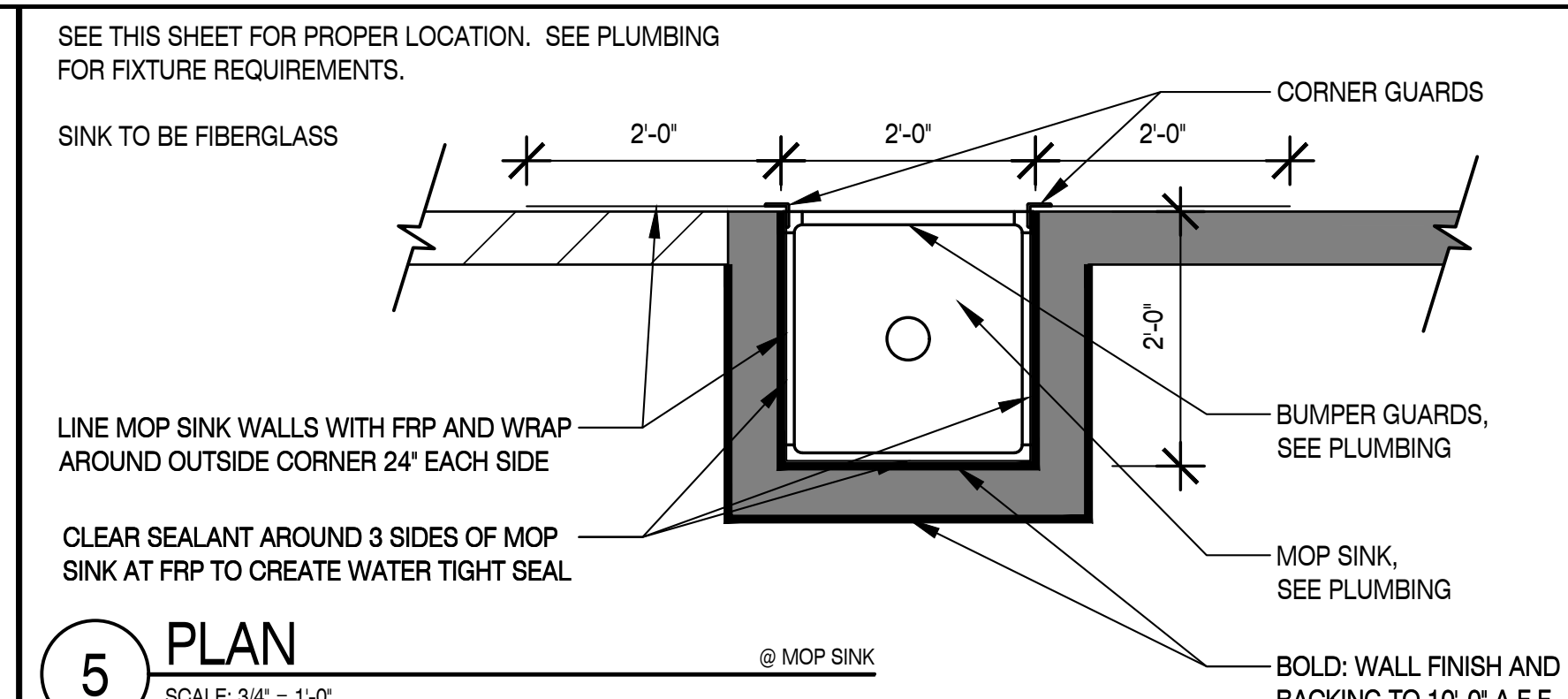
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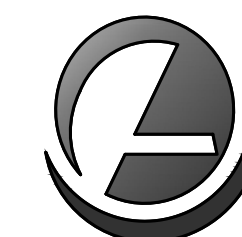
Revisions:

Revisions:

PET WASH PLAN, ELEVATIONS & DETAILS

Sheet Number: **A5.1**

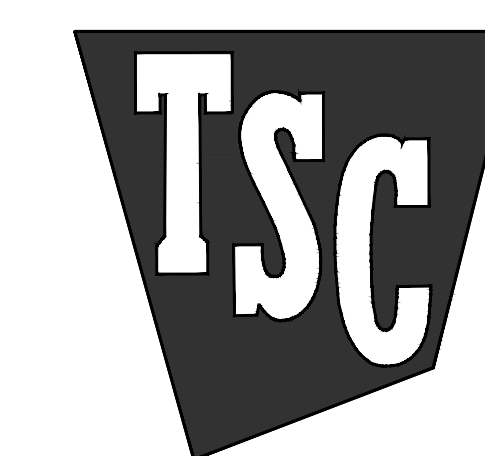




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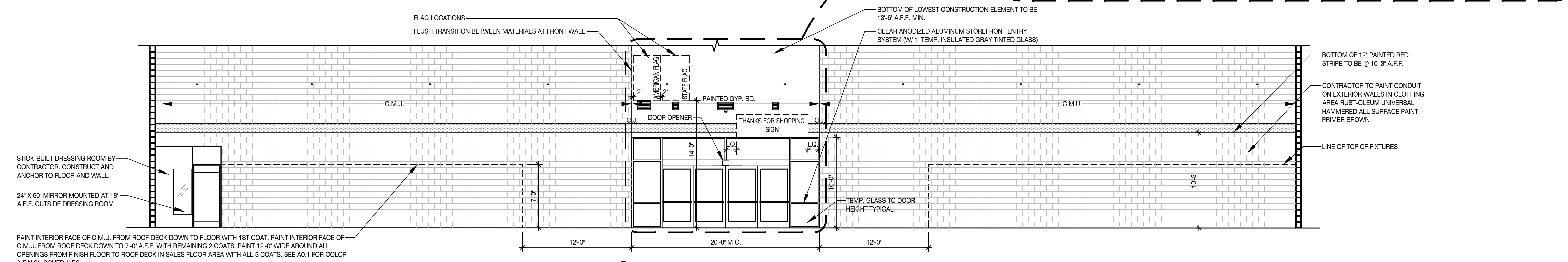
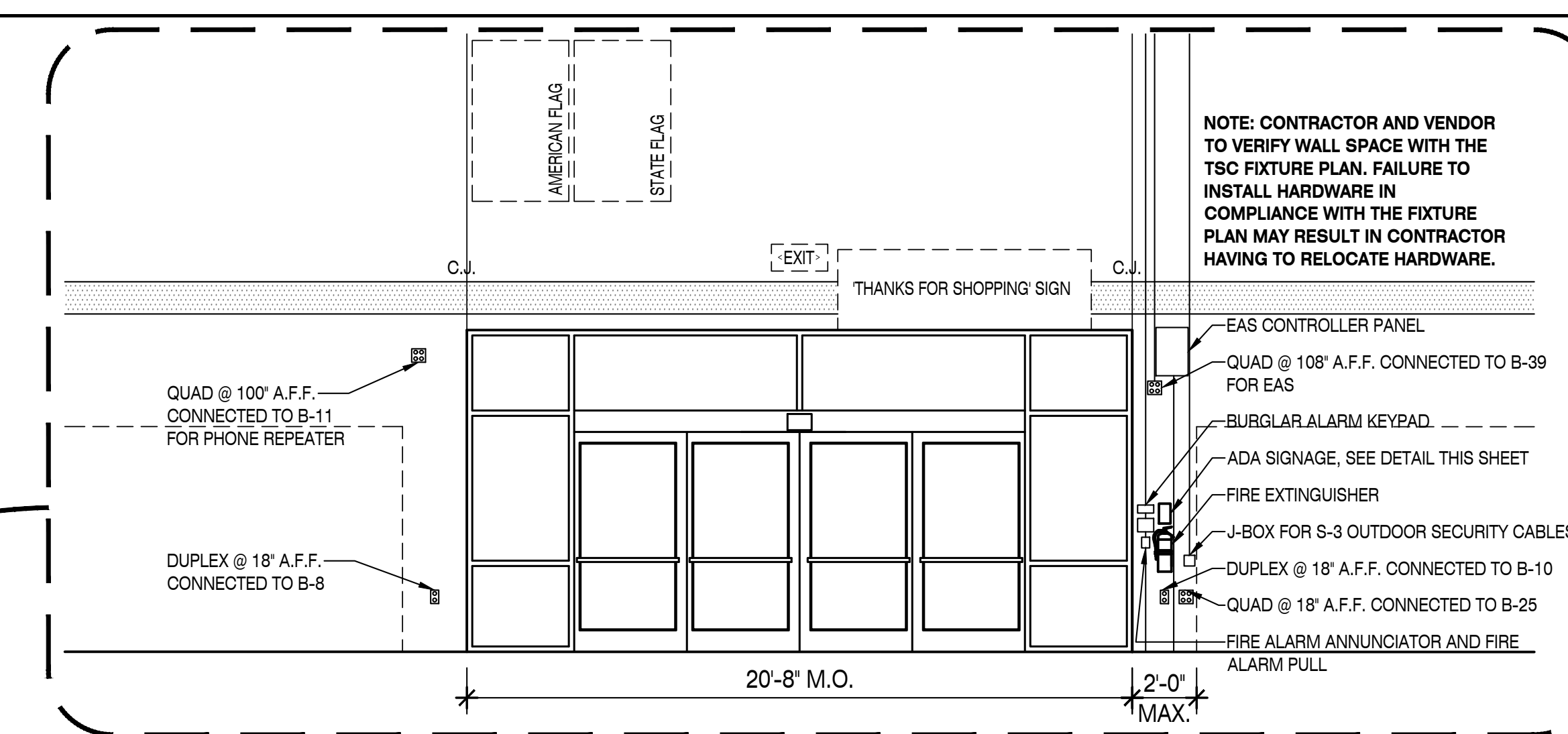
Date: 03.22.2024

Revisions:

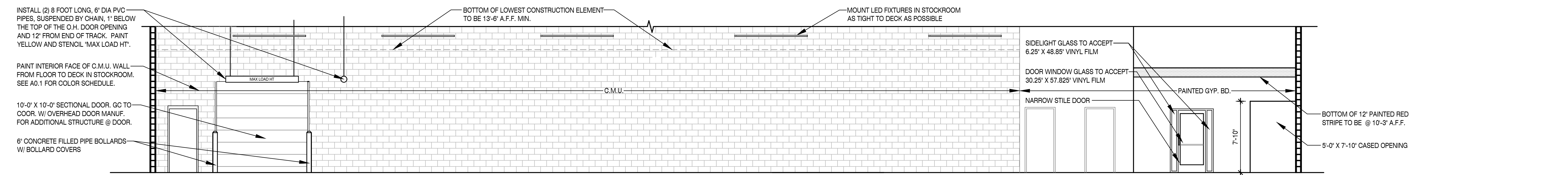
Revisions:

Revisions: INTERIOR ELEVATIONS

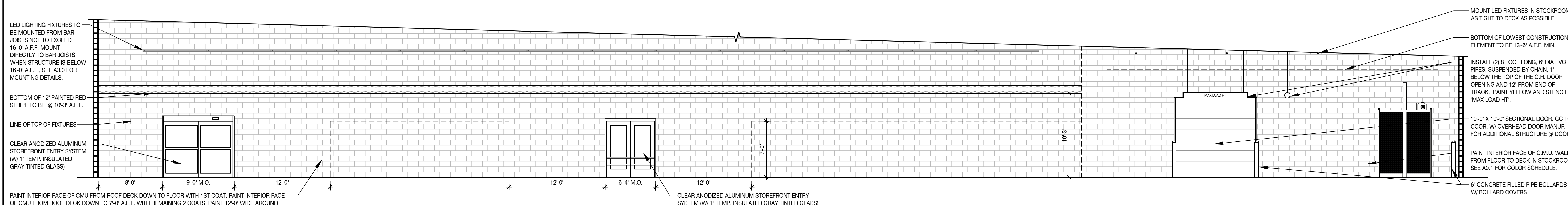
Sheet Number: **A5.2**



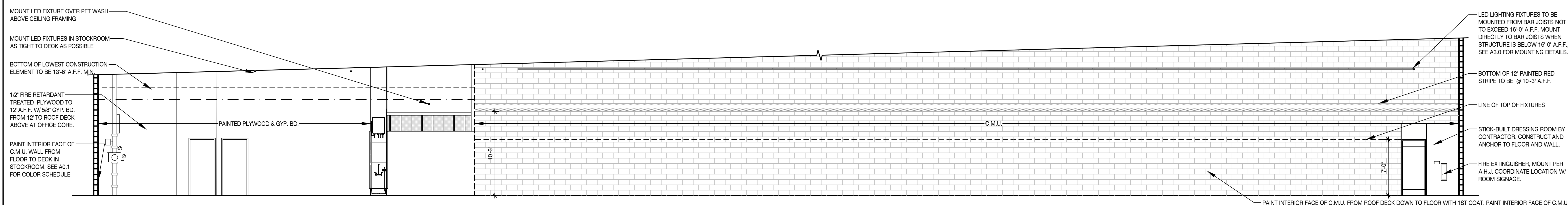
1 INTERIOR ELEV/SECTION FRONT WALL
SCALE: 3/16" = 1'-0"



2 INTERIOR ELEV/SECTION REAR WALL
SCALE: 3/16" = 1'-0"

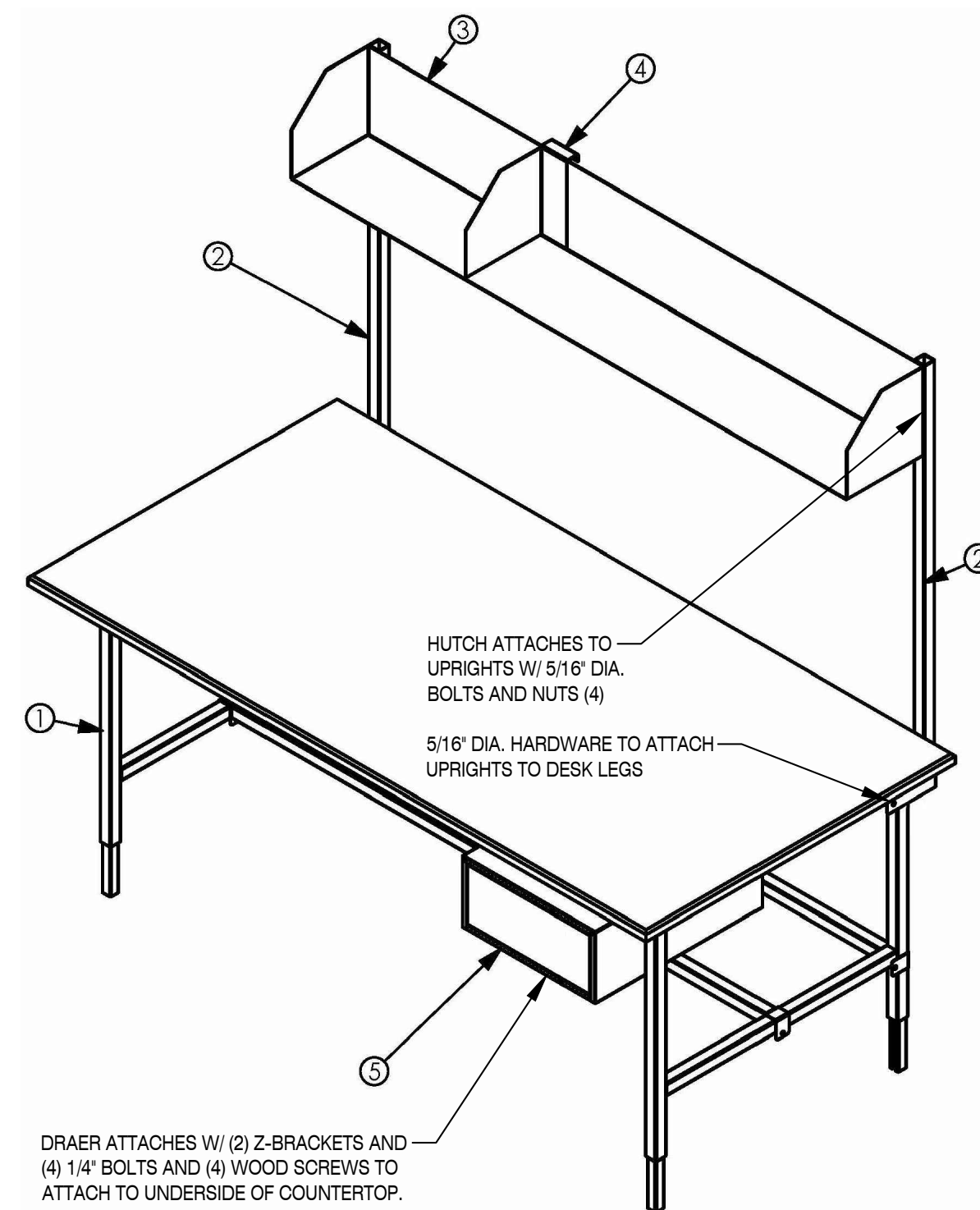


3 INTERIOR ELEV/SECTION LEFT WALL
SCALE: 3/16" = 1'-0"

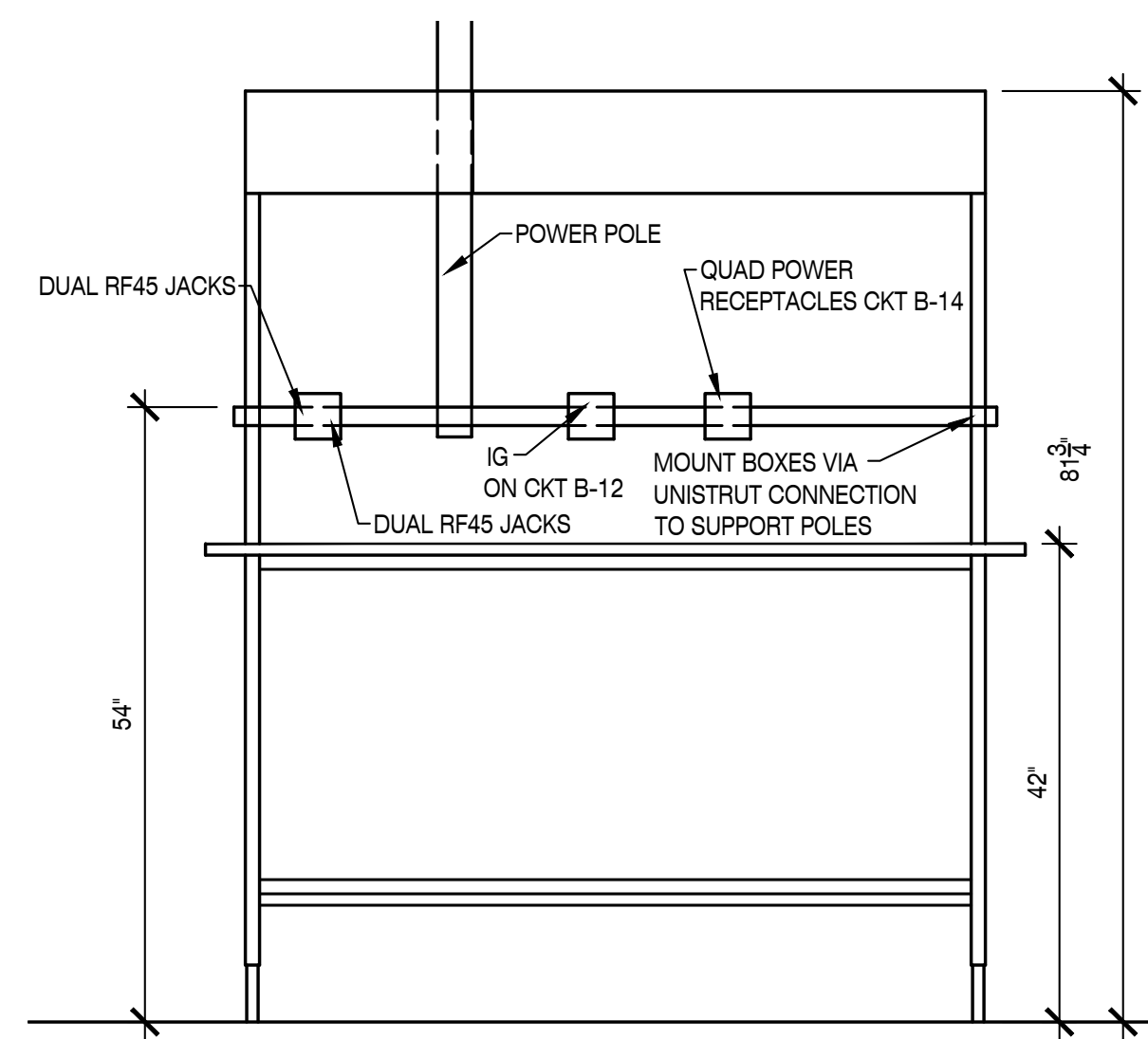


4 INTERIOR ELEV/SECTION RIGHT WALL
SCALE: 3/16" = 1'-0"

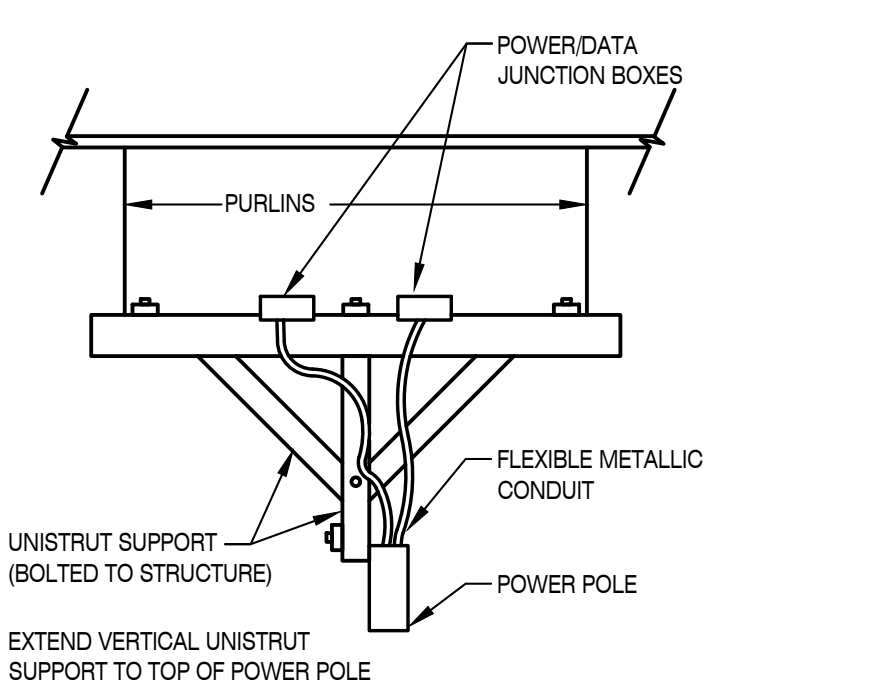
RECEIVING DESK



22 RECEIVING TABLE ISOMETRIC
SCALE: NONE



21 RECEIVING TABLE LAYOUT
SCALE: NONE



10 SERVICE AND DISPLAY COUNTER
SCALE: NONE

CASEWORK DAMAGE PROTOCOL
GC TO SEND E-MAIL TO TSC PM WITH DESCRIPTION, PICTURES, AND BILL OF XXXXXX

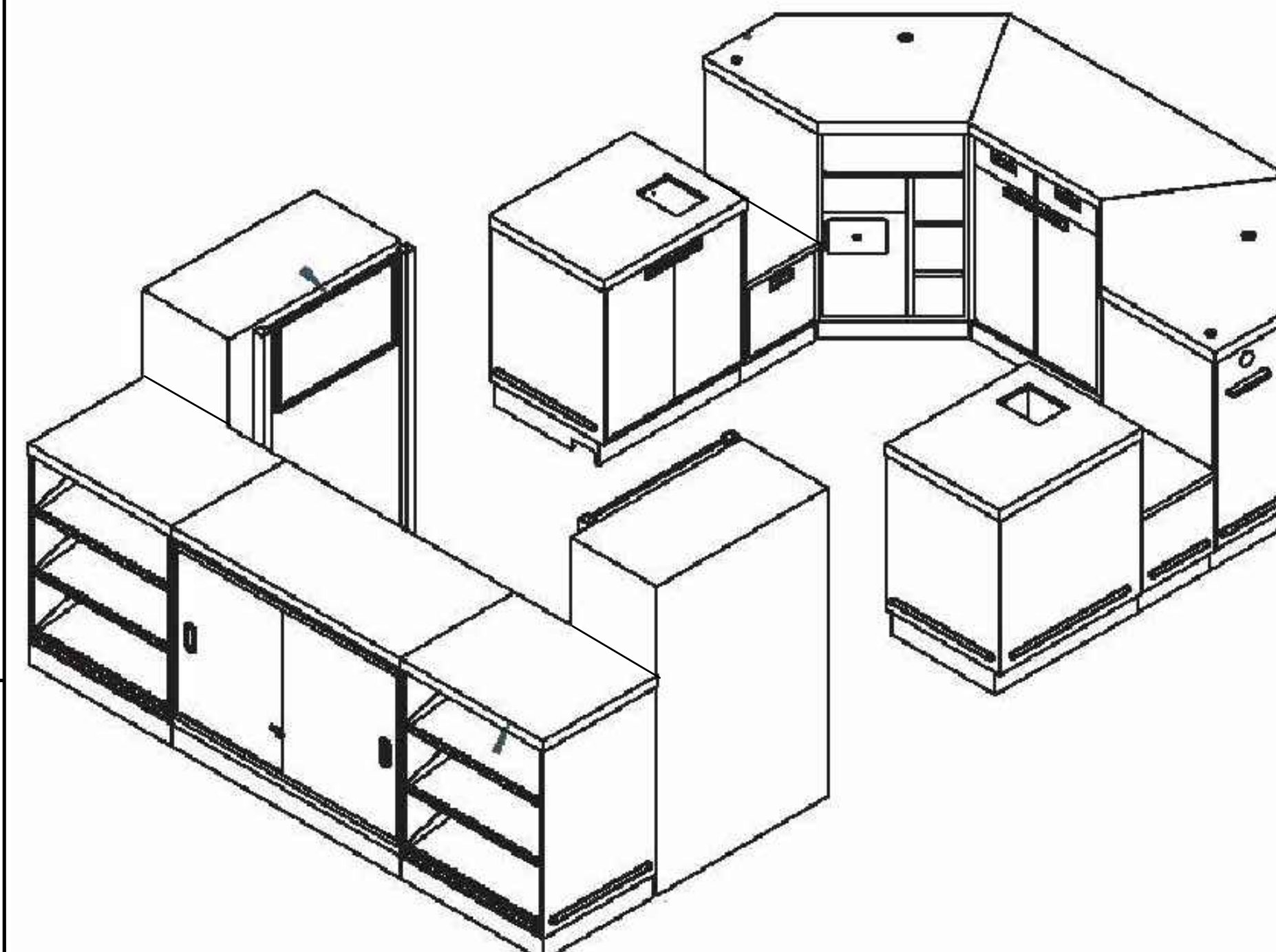
EXHIBIT H-1
TRAINING CERTIFICATION

INITIAL TSC STORE MANAGER	INITIAL GC	TRAINING HAS BEEN COMPLETED WITH THE STORE MANAGER BY THE GENERAL CONTRACTOR ON HOW TO USE, OPERATE AND MAINTAIN:
		THE IRRIGATION SYSTEM. ALSO, THE TSC STORE MANAGER HAS BEEN ADVISED THAT THE STORE IS RESPONSIBLE FOR MAINTAINING ALL LANDSCAPING STARTING AT EITHER FIXTURE DATE OR COMPLETION DATE, THE LATTER OF THE TWO DATES.
		THE LIGHT TIMER SYSTEM INCLUDING REVIEW OF THE SCHEDULE
		THE HVAC SYSTEM OPERATION INCLUDING HOW TO ADJUST THE PROGRAMMABLE THERMOSTATS.
		THE AUTOMATIC FRONT DOORS OPERATIONS INCLUDING SENSOR ADJUSTMENTS.
		THE OVERHEAD DOORS OPERATIONS INCLUDING TIMER, TIMER OVERRIDE, AND SAFETY EDGE.
		THE DELAY EGRESS DOOR (THE RESET BUTTON IS IN THE CONTROL BOX AND HAS TO BE RESET ANY TIME POWER IS LOST).

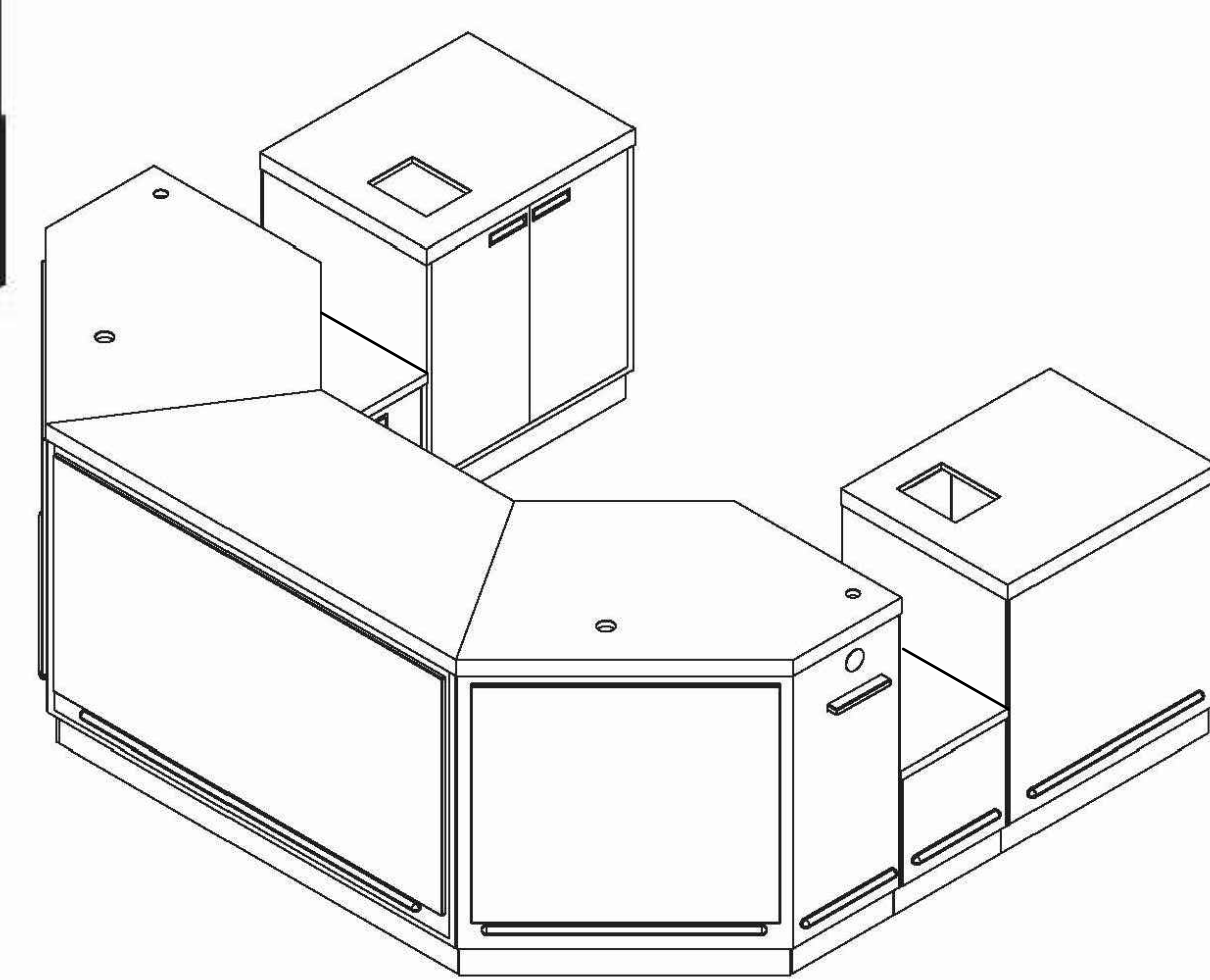
STORE # _____ CITY/STATE _____
STORE MANAGER _____ GENERAL CONTRACTOR _____

COPY OF THIS EXECUTED DOCUMENT TO BE INCLUDED IN THE CLOSE OUT DOCUMENTS PROVIDED BY THE GENERAL CONTRACTOR (FOR RETRO FIT BY TENANT) OR LANDLORD (RETRO FIT BY LL AND GROUND UP PROJECTS) TO TRACTOR SUPPLY COMPANY!

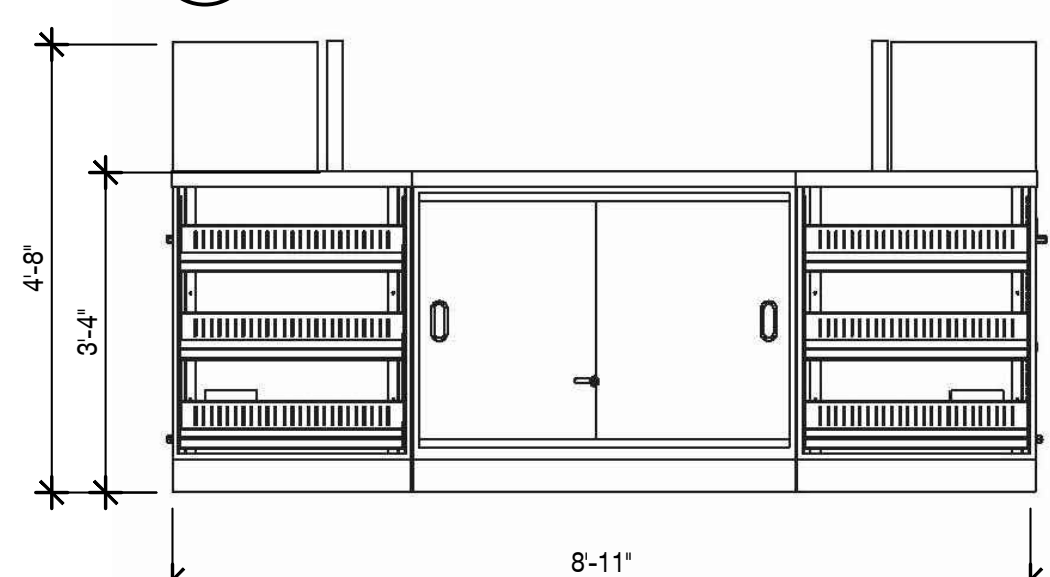
9 EXHIBIT H-1
TRAINING CERTIFICATION



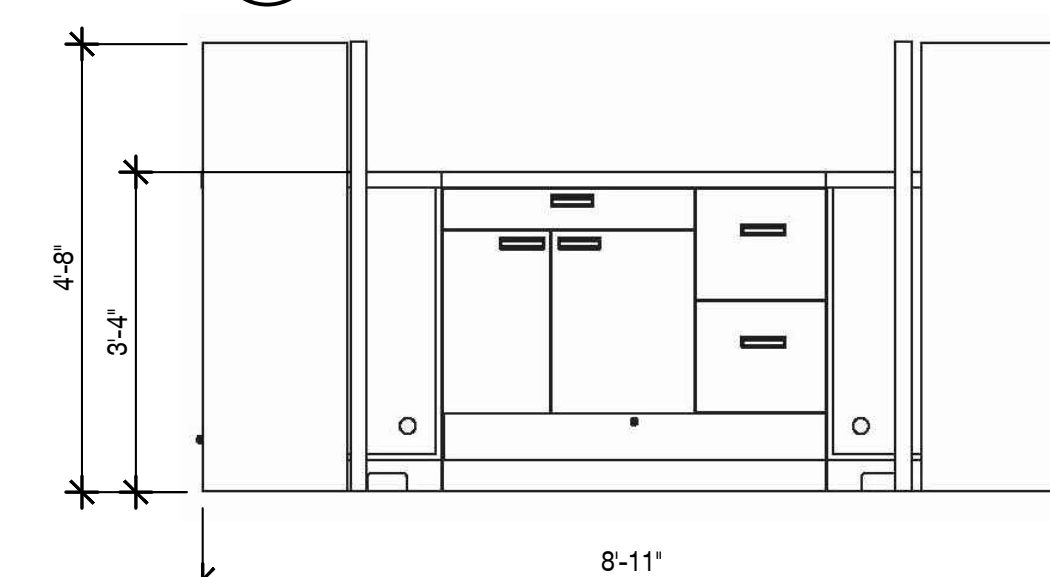
8 ISOMETRIC
SCALE: 1/2" = 1'-0"
CHECK OUT COUNTER



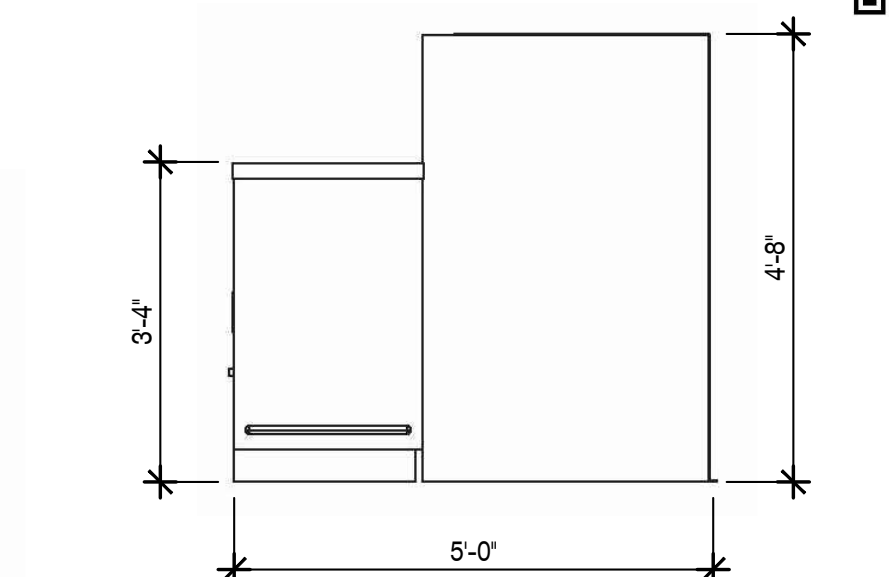
7 ISOMETRIC
SCALE: 1/2" = 1'-0"
CHECK OUT COUNTER



6 ELEVATION
SCALE: 1/2" = 1'-0"
CHECK OUT COUNTER



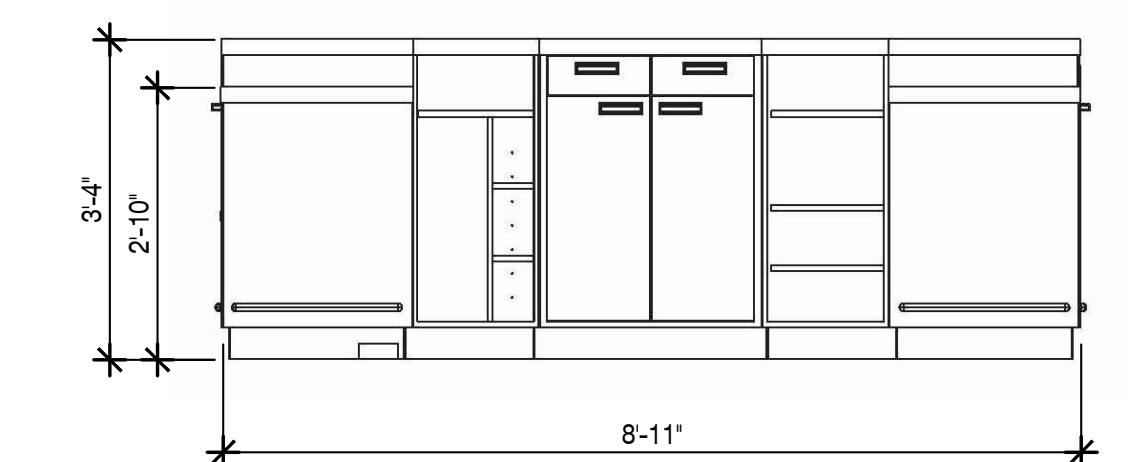
5 ELEVATION
SCALE: 1/2" = 1'-0"
CHECK OUT COUNTER



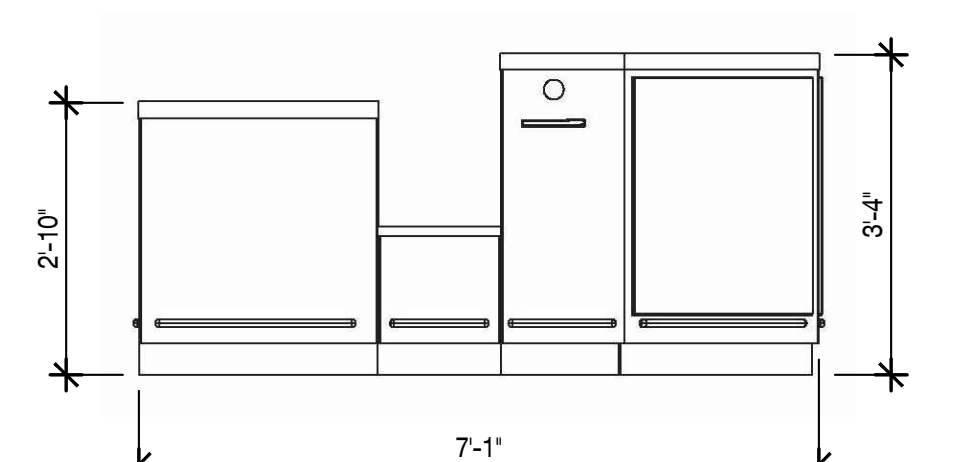
4 ELEVATION
SCALE: 1/2" = 1'-0"
CHECK OUT COUNTER

"U" REGISTER COUNTER

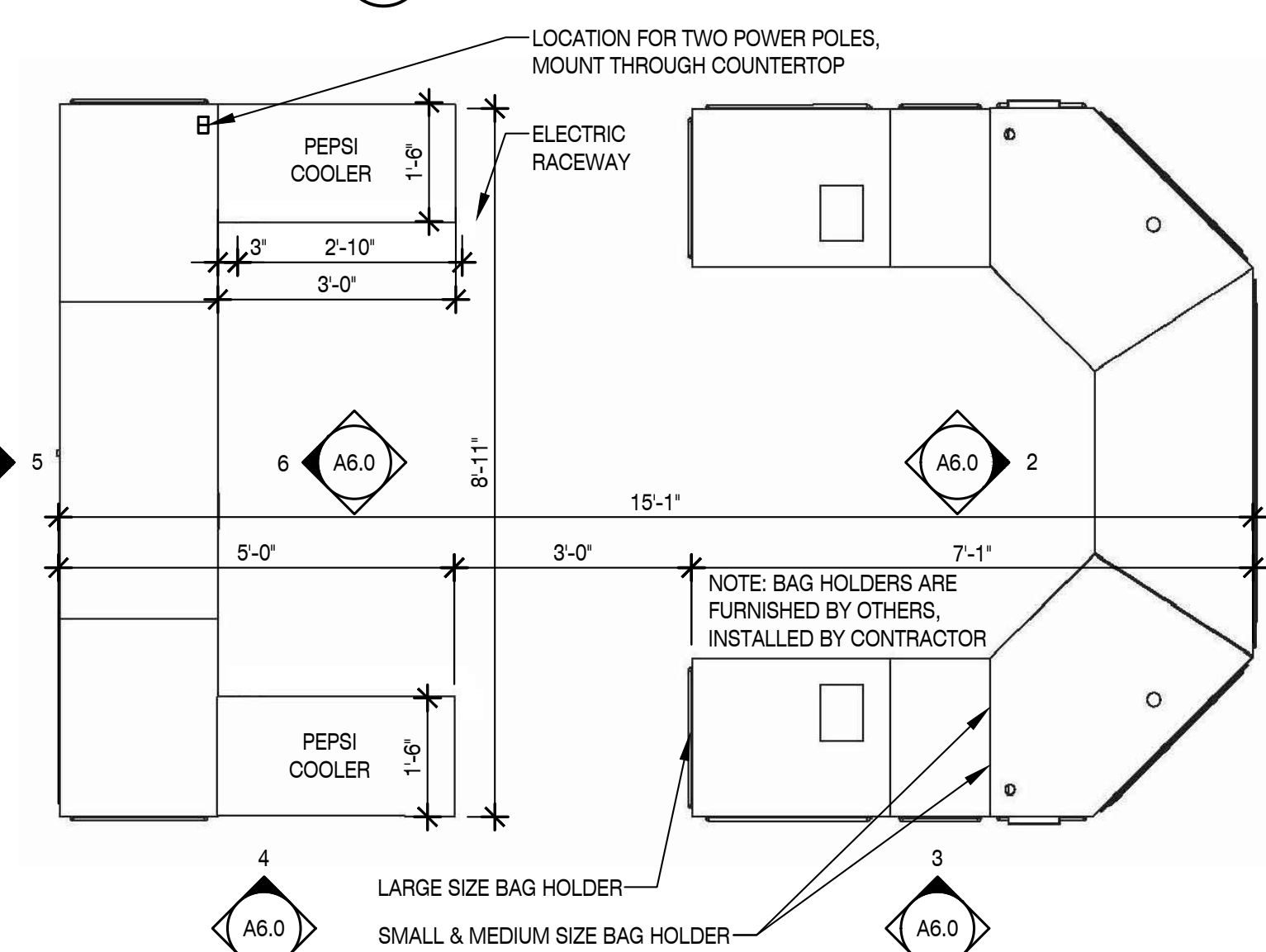
LANDLORD/ GENERAL CONTRACTOR RESPONSIBLE FOR RECEIVING, PLACING AND ASSEMBLY OF ALL TENANT SUPPLIED MILLWORK.



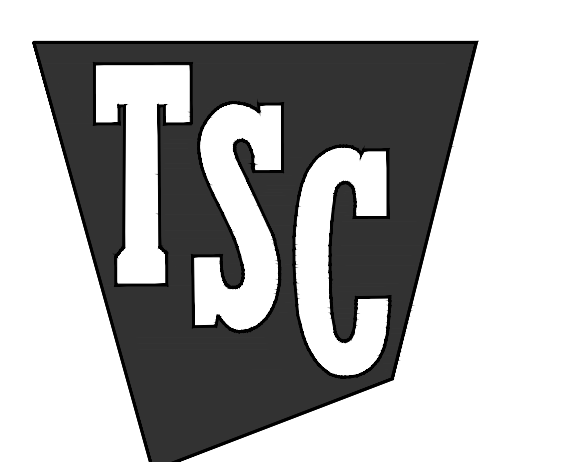
2 ELEVATION
SCALE: 1/2" = 1'-0"
CHECK OUT COUNTER



3 ELEVATION
SCALE: 1/2" = 1'-0"
CHECK OUT COUNTER



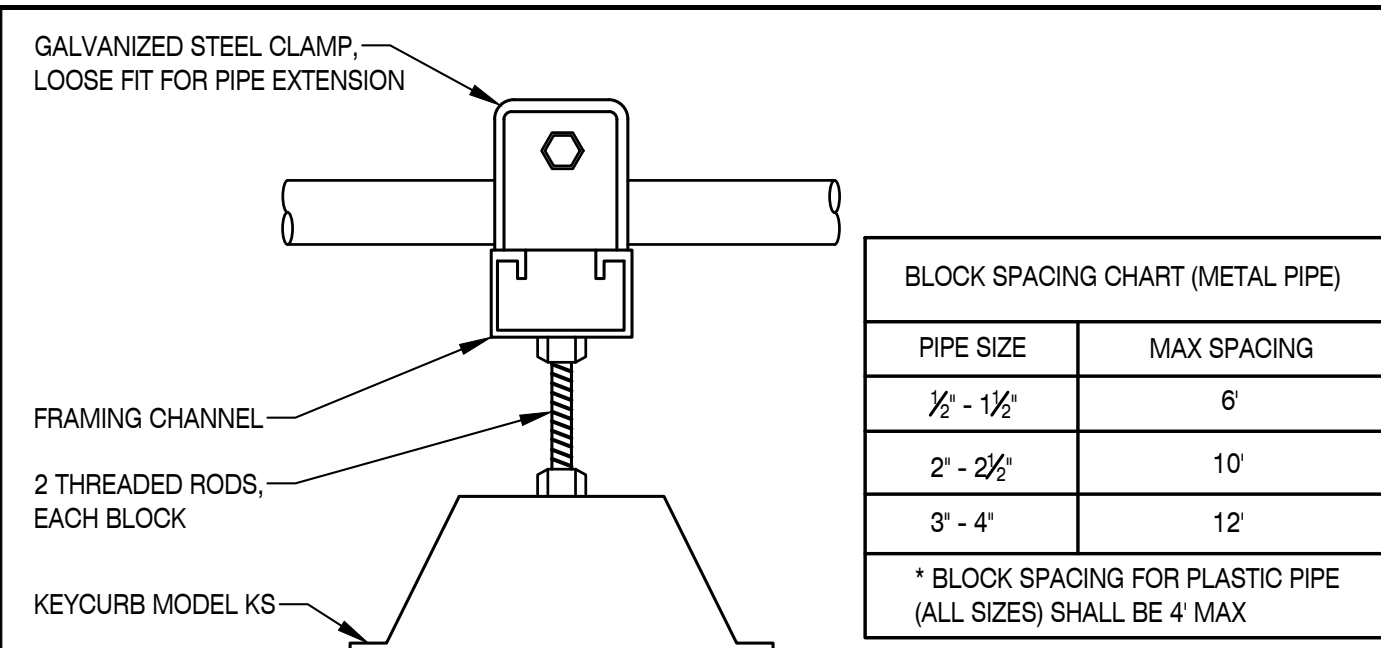
1 ENLARGED PLAN
SCALE: 1/2" = 1'-0"
CHECK OUT COUNTER



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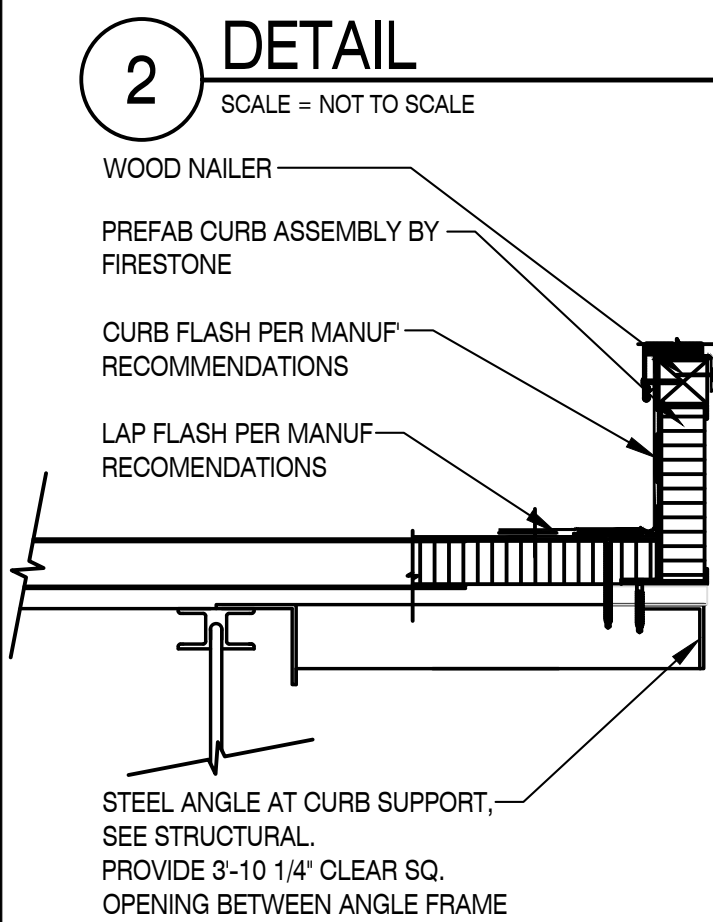
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Job Number: 2360
Date: 03.22.2024
Revisions:
Revisions:
Revisions: RECEIVING / SERVICE COUNTER DETAILS
Sheet Number: **A6.0**

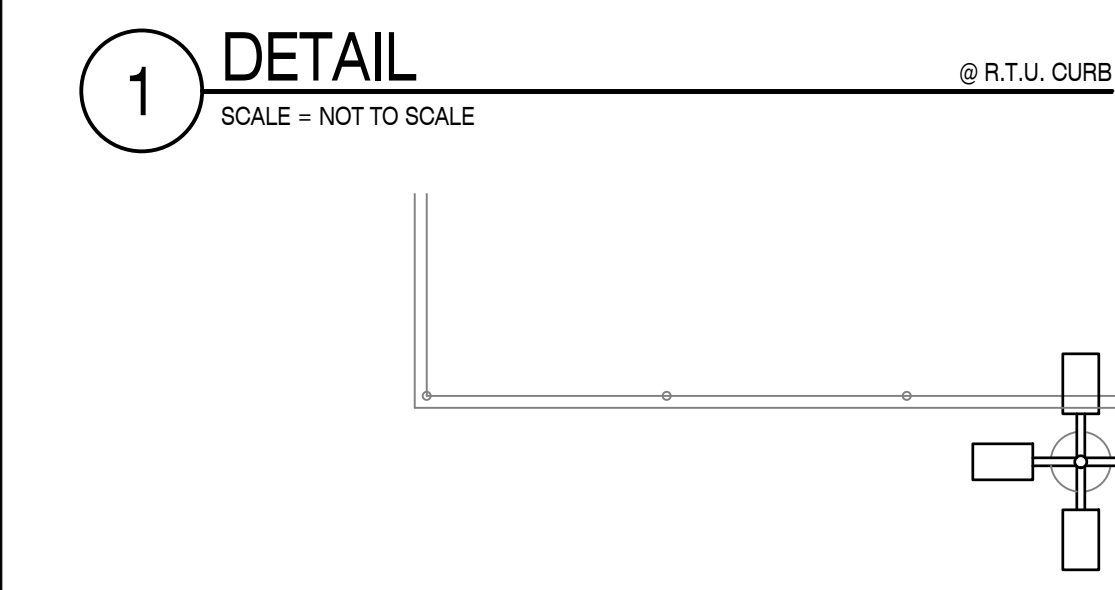


BLOCK SPACING CHART (METAL PIPE)	
PIPE SIZE	MAX SPACING
1/2" - 1 1/2"	6"
2" - 2 1/2"	10"
3" - 4"	12"

* BLOCK SPACING FOR PLASTIC PIPE (ALL SIZES) SHALL BE 4" MAX



- NOTES
- REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
 - NAILING AND METAL COUNTERFLASHING ARE NOT REQUIRED IF MEMBRANE IS RUN UP AND OVER CURB WALLS PRIOR TO INSTALLATION OF R.T.U.
 - BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
 - WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE EXPOSED.
 - INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.
 - WOOD BLOCKING CAN BE USED BELOW CURB FLANGE (TO MATCH INSULATION THICKNESS) CAN BE SUBSTITUTED FOR STRUCTURAL CURB ATTACHMENT
 - APPROVED WOODEN CURBS CAN BE USED IN PLACE OF METAL CURBS
 - REFER TO STANDARD FIRESTONE DETAILS FOR CORNER FLASHING



LIVE GOODS CENTER SHADE MATERIAL, SEE VENDOR DRAWINGS FOR DETAILS & SPECIFICATIONS

LIVE GOODS CENTER METAL CANOPY, SEE VENDOR DRAWINGS FOR DETAILS & SPECIFICATIONS

PROPANE TANK CANOPY, SEE AS1.1 FOR DETAILS

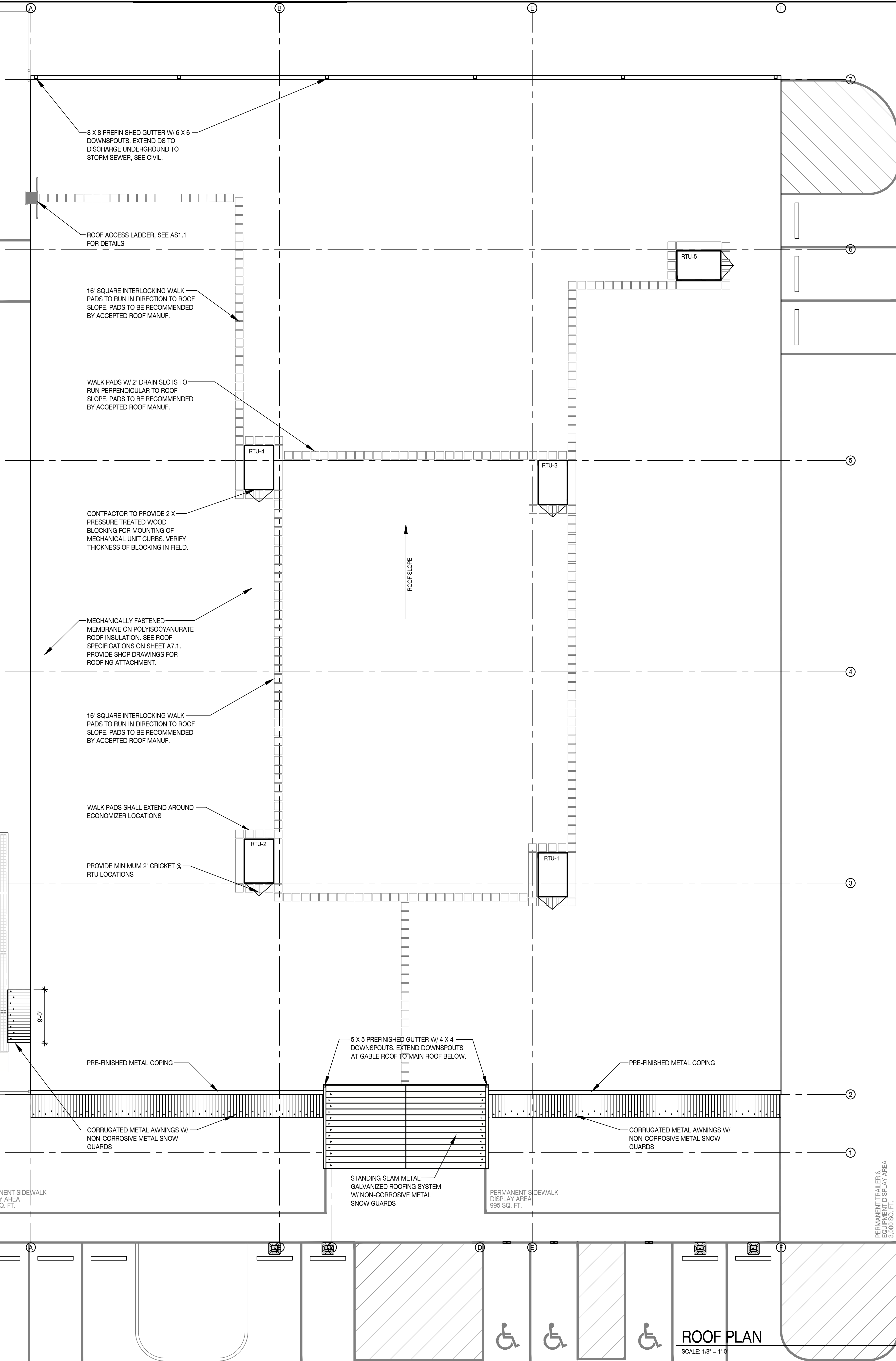
PERMANENT SIDEWALK DISPLAY AREA 353 SQ. FT.

PERMANENT SIDEWALK DISPLAY AREA 582 SQ. FT.

PERMANENT SIDEWALK DISPLAY AREA 1,188 SQ. FT.

PERMANENT SIDEWALK DISPLAY AREA 995 SQ. FT.

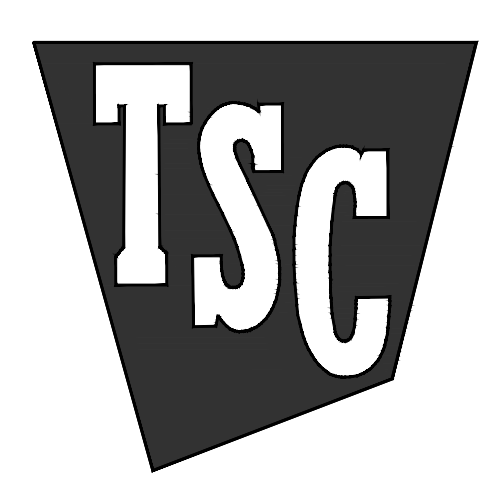
PERMANENT TRAILER & EQUIPMENT DISPLAY AREA 3,009 SQ. FT.



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Date: 03.22.2024

Revisions:

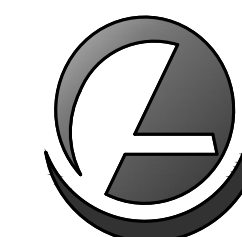
Revisions:

Revisions:

ROOF PLAN

Sheet Number: **A7.0**

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



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Job Number: 2360

Date: 03.22.2024

Revisions:

Revisions:

Revisions: LIFE SAFETY / FIXTURE PLAN

Sheet Number: A8.0

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

2015 IBC - TABLE 1004.1.2

FUNCTION OF SPACE	FLOOR AREA IN SQ. FT. PER OCCUPANT
BUSINESS AREAS	100 GROSS
MERCANTILE STORAGE, STOCK, SHIPPING AREAS	60 GROSS 300 GROSS

EGRESS WIDTH PER OCCUPANT LOAD

2015 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: I-2	N/A	N/A	0.3	0.2

EGRESS ACCESS TRAVEL DISTANCE

2015 IBC - TABLE 1017.2

OCCUPANCY	WITHOUT SPRINKLER SYSTEM (FEET)	WITH SPRINKLER SYSTEM (FEET)
M	200	250
B	200	300

PROJECT DATA

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

- 2018 NORTH CAROLINA BUILDING CODE
- 2018 NORTH CAROLINA PLUMBING CODE
- 2018 NORTH CAROLINA MECHANICAL CODE
- 2020 NATIONAL ELECTRIC CODE
- 2018 NORTH CAROLINA FIRE CODE
- 2018 NORTH CAROLINA ENERGY CODE
- 2018 NORTH CAROLINA GAS CODE

OCCUPANCY CLASSIFICATION M / S-1 - NON-SEPARATED MIXED USE

CONSTRUCTION TYPE IIB

FIRE SUPPRESSION SPRINKLERED

BUILDING AREA LIMITS		OCCUPANCY LOAD
VESTIBULE	= 228 SQ. FT. / 60	= 3.90 OR 4
RETAIL SALES	= 15,416 SQ. FT. / 60	= 256.9 OR 257
OFFICE CORE & WALLS	= 1,341 SQ. FT. / 150	= 8.94 OR 9
STOCKROOM	= 4,945 SQ. FT. / 300	= 16.48 OR 17

TOTAL BUILDING AREA = 21,930 SQ. FT.
TOTAL OCCUPANT LOAD = 287

LIFE SAFETY DATA

ITEM	REQUIRED	PROVIDED
EXIT / EGRESS	287 X 0.15 = 44'	216'
MAX. TRAVEL DISTANCE	250'-0"	223'-6"
NUMBER OF SALES EXITS	3	3
NUMBER OF TENANT EXITS	4	4
MIN. EXIT SEPARATION	74'-10"	99'-8"

STEEL DOCK & RAMP

KNOX BOX CAN BE PROVIDED FOR KEYPED ENTRY @ DOOR C WHERE FIRE DEPARTMENT REQUIRES

DOOR C SHALL BE USED BY EMPLOYEES ONLY. CUSTOMERS SHALL NOT EGRESS THROUGH THE STOCKROOM.

DOOR C UTILIZES ALARMED DETEX PANIC HARDWARE
EGRESS WIDTH = 34' / 0.15
OCCUPANT LOAD PER DOOR = 227

- STOCKROOM FIXTURE INSTALLATION GUIDELINES
CONTRACTOR IS TO VERIFY WITH THE STORE MANAGER THAT ALL RACKS ARE PROPERLY BUILT AND POSITIONED.
- DRILL HOLES FOR ANCHORING RACK. GENERALLY, THE HOLE IN THE FOOT OF THE RACK LEG IS 1/2" IN DIAMETER. VERIFY HOLE SIZE PER BOLT ISSUED BY RACKING MANUFACTURER (1) ONE ANCHOR PER FOOT.
 - RACKS ARE TO BE SECURELY ANCHORED WITH ANCHOR BOLTS PER MANUFACTURER SPECIFICATIONS.
 - FOLLOWING INSTALLATION, REMOVE ANY RESIDUAL DEBRIS AND CLEAN AREA.
 - IF SEISMIC ANCHORING IS REQUIRED THE FIXTURE INSTALLER WILL COMPLETE ALL DRILLING/ANCHORING PER THE SEISMIC PLANS

DOOR B UTILIZES DELAYED EGRESS HARDWARE (15 SEC.)
EGRESS WIDTH = 34' / 0.15
OCCUPANT LOAD PER DOOR = 227

MAXIMUM TRAVEL DISTANCE FROM POINT 'A' TO POINT 'B' = 234'-10"

224'-11" IS THE MAXIMUM MINIMUM REQUIRED EXIT SEPARATION DISTANCE

89'-5" ACTUAL EXIT SEPARATION DISTANCE

NOTE: FINAL FIXTURE PLAN TO BE DEVELOPED BY TSC. FIXTURES ARE SUPPLIED BY TSC, INSTALLED BY CONTRACTOR.

EGRESS WIDTH = 68' / 0.15
OCCUPANT LOAD PER DOOR = 453

EGRESS WIDTH = 99' / 0.15
OCCUPANT LOAD PER DOOR = 660

EGRESS WIDTH = 80' / 0.15
OCCUPANT LOAD PER DOOR = 533
KNOX BOX TO BE PROVIDED FOR KEYPED ENTRY @ DOOR A FOR FIRE DEPARTMENT

GATE F UTILIZES ALARMED DETEX PANIC HARDWARE

PERMANENT SIDEWALK DISPLAY AREA 353 SQ. FT.

PERMANENT SIDEWALK DISPLAY AREA 562 SQ. FT.

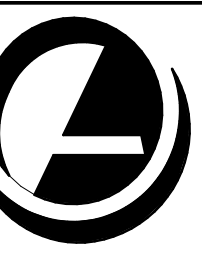
PERMANENT SIDEWALK DISPLAY AREA 1,166 SQ. FT.

PERMANENT SIDEWALK DISPLAY AREA 995 SQ. FT.

PERMANENT TRAILER & EQUIPMENT DISPLAY AREA 5,000 SQ. FT.

FIXTURE / LIFE SAFETY PLAN

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



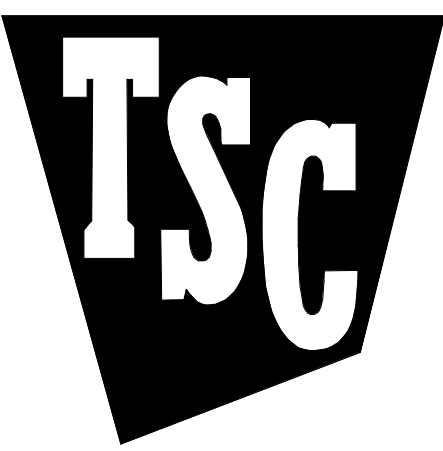
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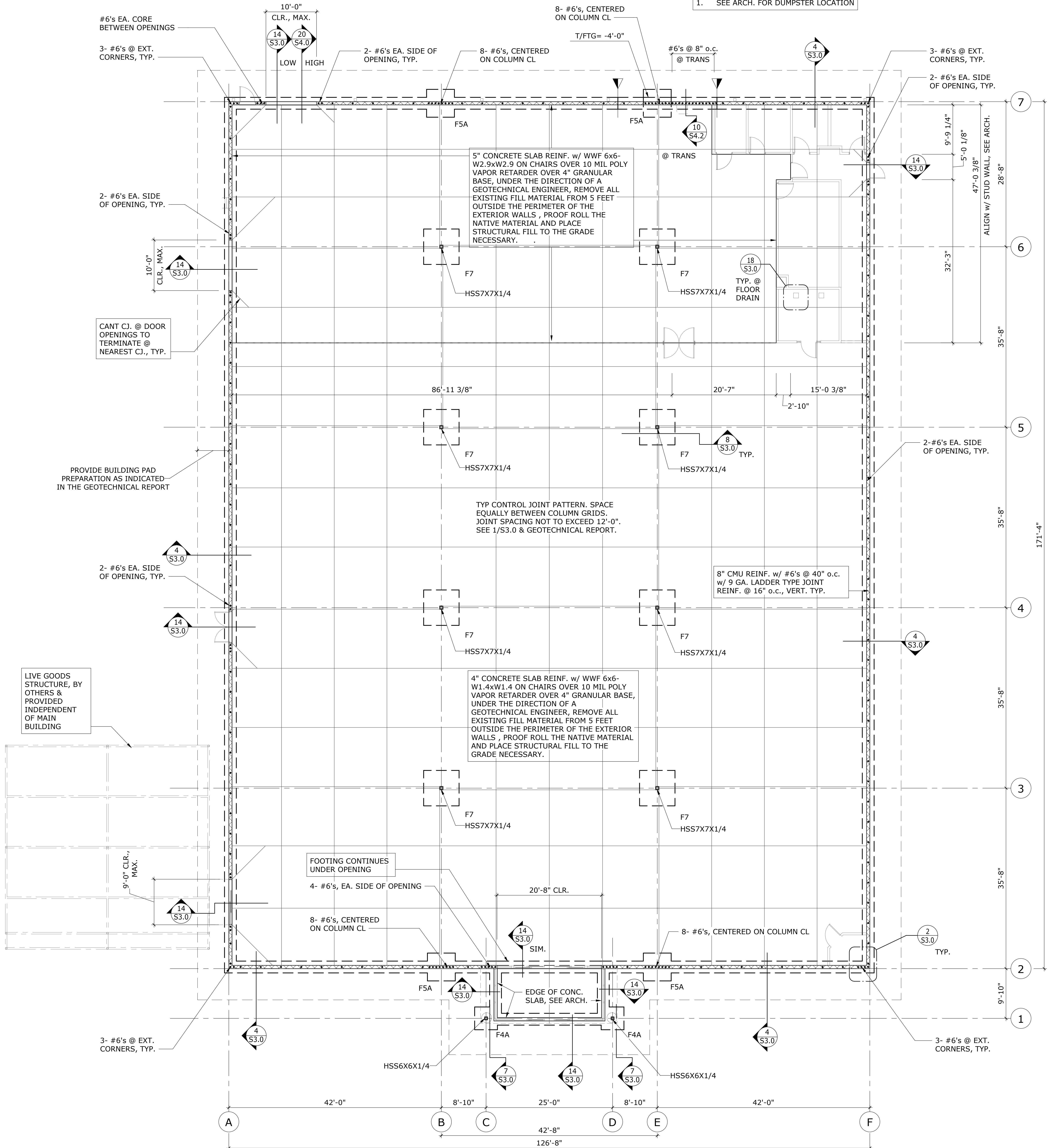


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STRUCTURAL SHEET INDEX - CO PROTOTYPE

SHEET NO.	SHEET NAME
S1.0	FOUNDATION PLAN
S2.0	ROOF FRAMING PLAN
S2.1	ROOF FRAMING PLAN, CONT.
S3.0	DETAILS
S4.0	DETAILS
S4.1	DETAILS
S4.2	DETAILS
S4.3	DETAILS
S5.0	STRUCTURAL GENERAL NOTES
S5.1	STRUCTURAL GENERAL NOTES, CONT.
S5.2	QUALITY ASSURANCE / PROPOSED STATEMENT OF SPECIAL INSPECTIONS
S5.3	QUALITY ASSURANCE / PROPOSED STATEMENT OF SPECIAL INSPECTIONS, CONT.
S5.4	CONCRETE SPECIFICATIONS

NOTE:
1. SEE ARCH. FOR DUMPSTER LOCATION



FOOTING SCHEDULE

MARK	SIZE			REBAR	REMARKS
	LENGTH	WIDTH	THICK.		
F4A	4'-6"	4'-6"	1'-4"	5- #5's, EA. WAY, TOP & BTM.	
F5A	5'-6"	5'-6"	1'-4"	6- #6's, EA. WAY, TOP & BTM.	
F7	7'-0"	7'-0"	1'-4"	7- #6's, EA. WAY, TOP & BTM.	

NOTE:
1. REMOVE ALL EXISTING IN PLACE FILL, PROOF ROLL THE NATIVE SOILS AND FILL TO GRADE WITH APPROVED STRUCTURAL FILL, TEST, AND REMEDIATE ALL SUBGRADE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
2. VERIFY SOIL BELOW FOOTINGS WITH GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.

FOUNDATION PLAN

SCALE: 1/8" = 1'-0"
NOTES:
1. TOP OF FOOTING:
A. EXTERIOR ISOLATED FOOTINGS = -16" MINIMUM BELOW FINISH FLOOR OR GRADE, WHICHEVER IS LOWER.
B. CONTINUOUS WALL FOOTING = -16" MINIMUM BELOW FINISH FLOOR OR FINISH GRADE, WHICHEVER IS LOWER.
C. INTERIOR ISOLATED FOOTINGS = -16" BELOW FINISH FLOOR.
D. NOTE: G.C. SHALL VERIFY REQUIRED FROST DEPTH AND EXISTING BEARING MEDIA WITH AHJ PRIOR TO COMMENCING WORK. SEE GEOTECHNICAL REPORT.

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 / S3.0 FOR SLAB CONTROL JOINTS.
4. DOWELS SHOWN ON PLAN INDICATE GROUT FILLED REINFORCED CORES. SEE DETAIL 13 / S3.0 & 11 / S3.0.
5. SEE 12 / S3.0 & 16 / S3.0 FOR ADDITIONAL REINFORCING AT WALL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
6. [Symbol] INDICATES FOOTING STEP. G.C. SHALL COORDINATE REQUIRED STEPS WITH GRADING AND SUBGRADE SYSTEM REQUIREMENTS SEE 3 / S3.0.
7. SEE DETAILS 7 / S4.2, 8 / S4.2, AND 9 / S4.2 FOR FOOTING CONDITIONS ADJACENT TO PLUMBING, ELECTRICAL, AND FIRE PROTECTION SYSTEMS.

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Job Number: 2360
Date: 03.22.2024
Revisions: [Symbol]
Revisions: [Symbol]
Revisions: [Symbol]
FOUNDATION PLAN

Sheet Number: S1.0
WE-??



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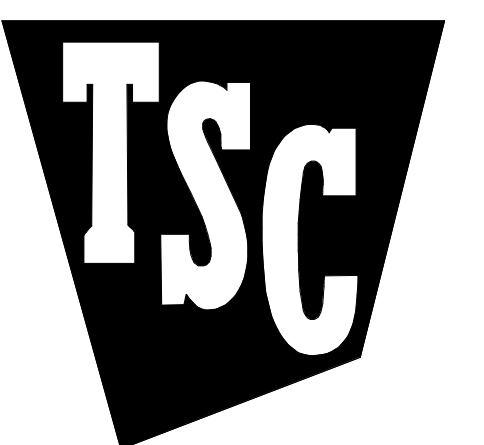
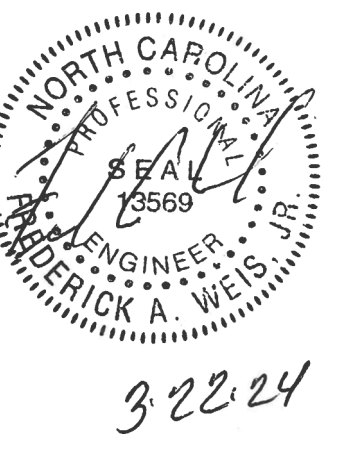
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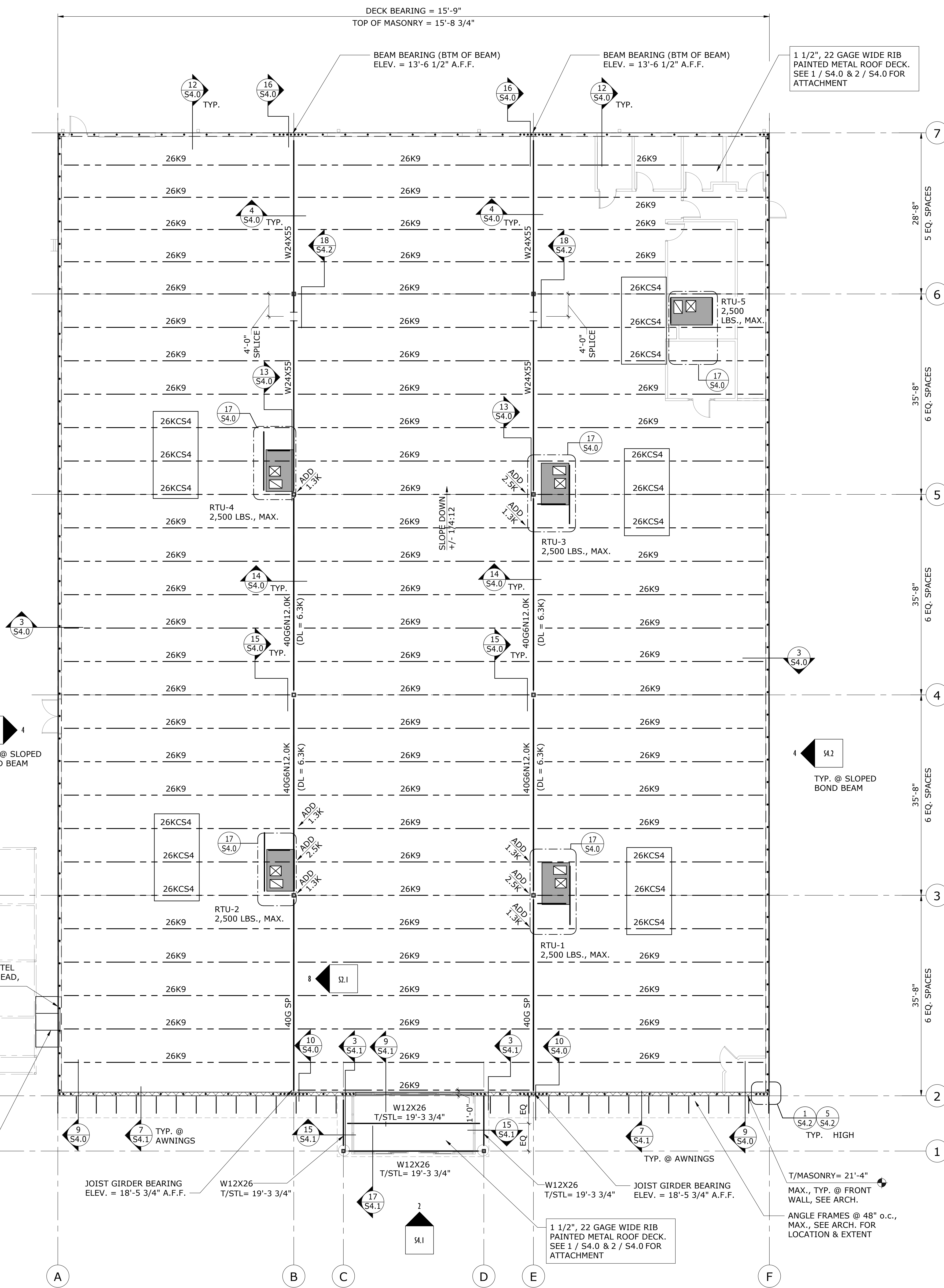
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1 ROOF FRAMING PLAN

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

NOTES:

1. JOIST BEARING ELEVATION VARIES.
2. ALL ROOF JOISTS TO HAVE 2 1/2" DEEP SEATS (U.N.O.)
3. HORIZONTAL BRIDGING REQUIRED FOR ALL BAR JOISTS PER SJI CODE OF STANDARD PRACTICE.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF BEARING WALLS AND DIMENSIONS NOT SHOWN.
5. BAR JOISTS SUPPORTING ROOF TOP UNITS HAVE BEEN DESIGNED TO CARRY THE ADDITIONAL LOAD INDICATED ON THE PLAN. PRIOR TO ORDERING JOISTS, VERIFY THE RTU EQUIPMENT COMPLIES WITH THE DESIGN ASSUMPTIONS SHOWN ON THE DRAWINGS.
6. SEE DETAIL 17 / S4.0 FOR RTU SUPPORT FRAMING.
7. SEE DETAIL 18 / S4.0 FOR ROOF OPENING FRAMING.
8. REFER TO SHEET S5 FOR WIND UPLIFT PRESSURES FOR JOIST AND JOIST GIRDER DESIGNS.
9. STRUCTURAL DESIGN IS BASED ON THE MAIN BUILDING INCLUDING A FRONT PARAPET ONLY. NO REAR OR SIDE PARAPETS ARE TO BE PROVIDED. IF PROVISIONS CHANGE, NOTIFY ARCHITECT IN WRITING PRIOR TO COMMENCING WORK.
10. SEE DETAIL 19 / S4.0 FOR ADDITIONAL REINFORCING @ NON-PANEL POINTS JOIST LOADING.
11. LOADS ON JOIST GIRDERS ARE PROVIDED AS ASD VALUES.
12. SEE 13 / S2.1 FOR STANDARD LINTEL SCHEDULE.

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Job Number: 2360

Date: 03.22.2024

Revisions:
 Revisions:
 Revisions:
 ROOF FRAMING PLAN

Sheet Number: **S2.0**

WE-??



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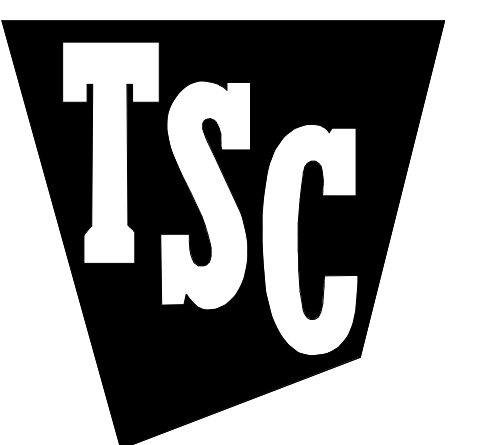
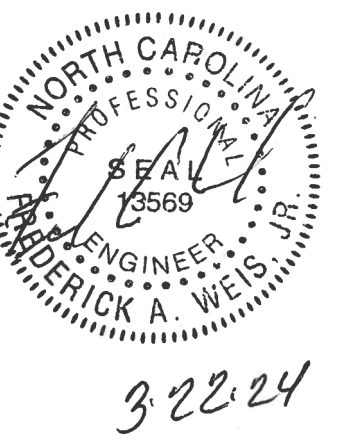
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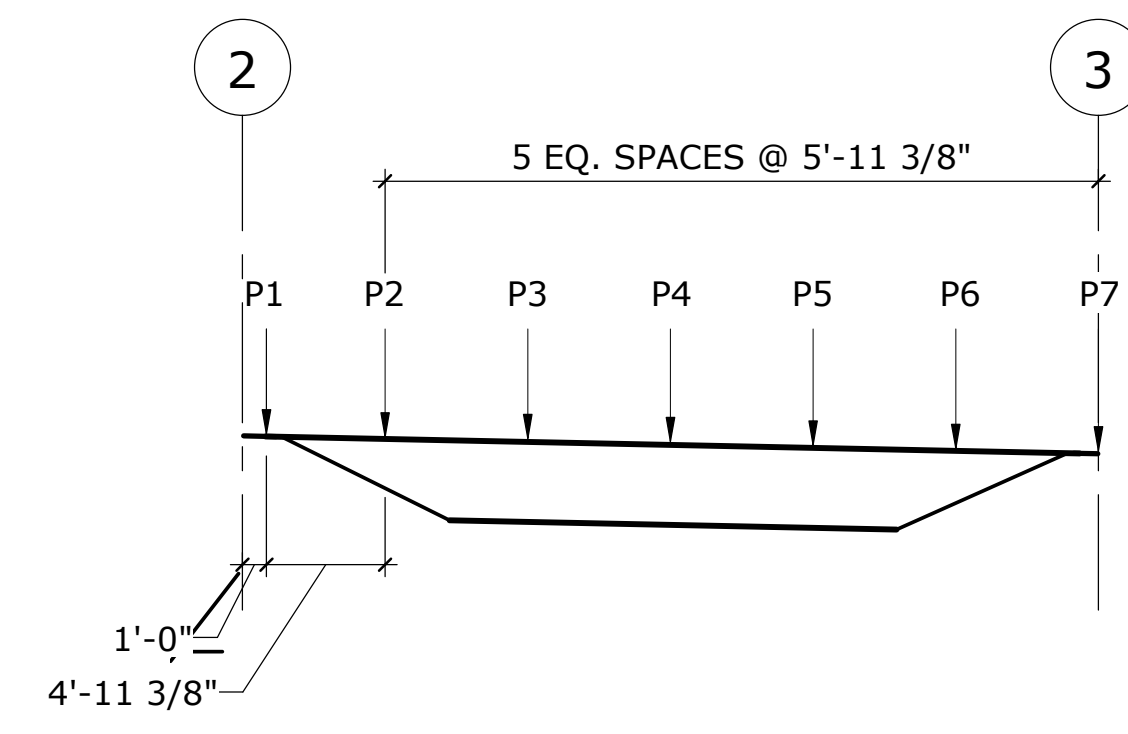
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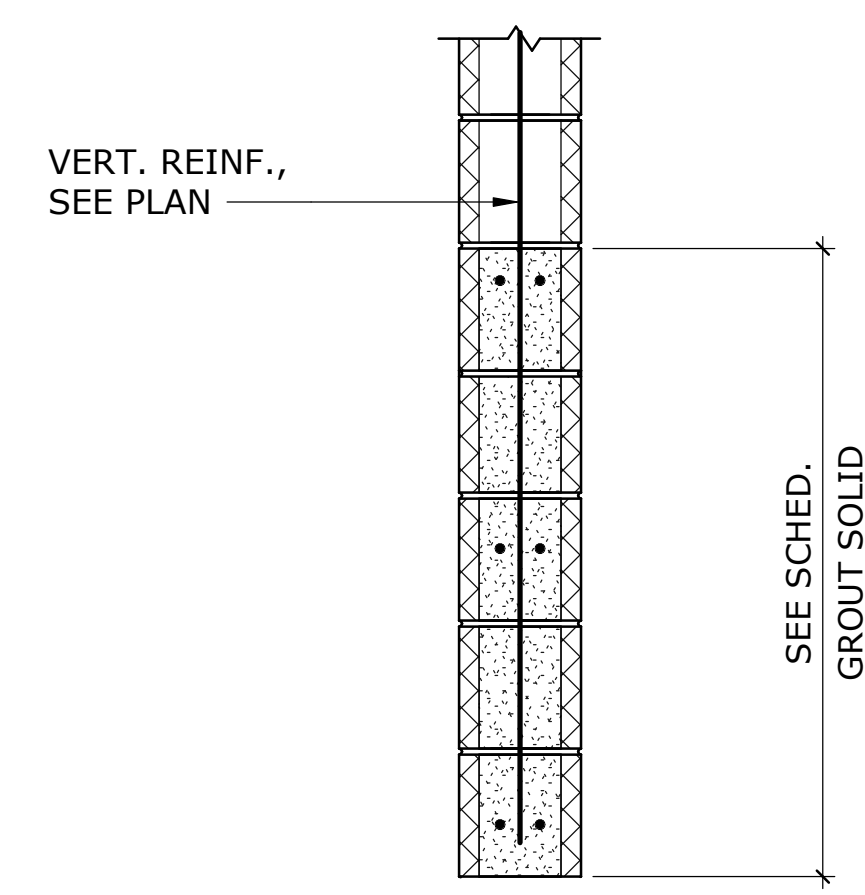
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DESIGNATION	TOTAL LOAD (KIPS)
P1	5.6 k
P2	12.4 k
P3	12.0 k
P4	12.0 k
P5	12.0 k
P6	12.0 k
P7	12.0 k

NOTE:
1. ABOVE LOADS DO NOT CONTAIN ADDITIONAL LOADS FROM RTU'S. RTU LOADING IS ADDITIONAL, SEE ROOF FRAMING PLAN
2. SEE JOIST GIRDER FOR LOADING & PANEL POINT REQUIREMENTS.

8 40G SP LOAD DIAGRAM
SCALE: 1/8" = 1'-0"



BOND BEAM LINTEL

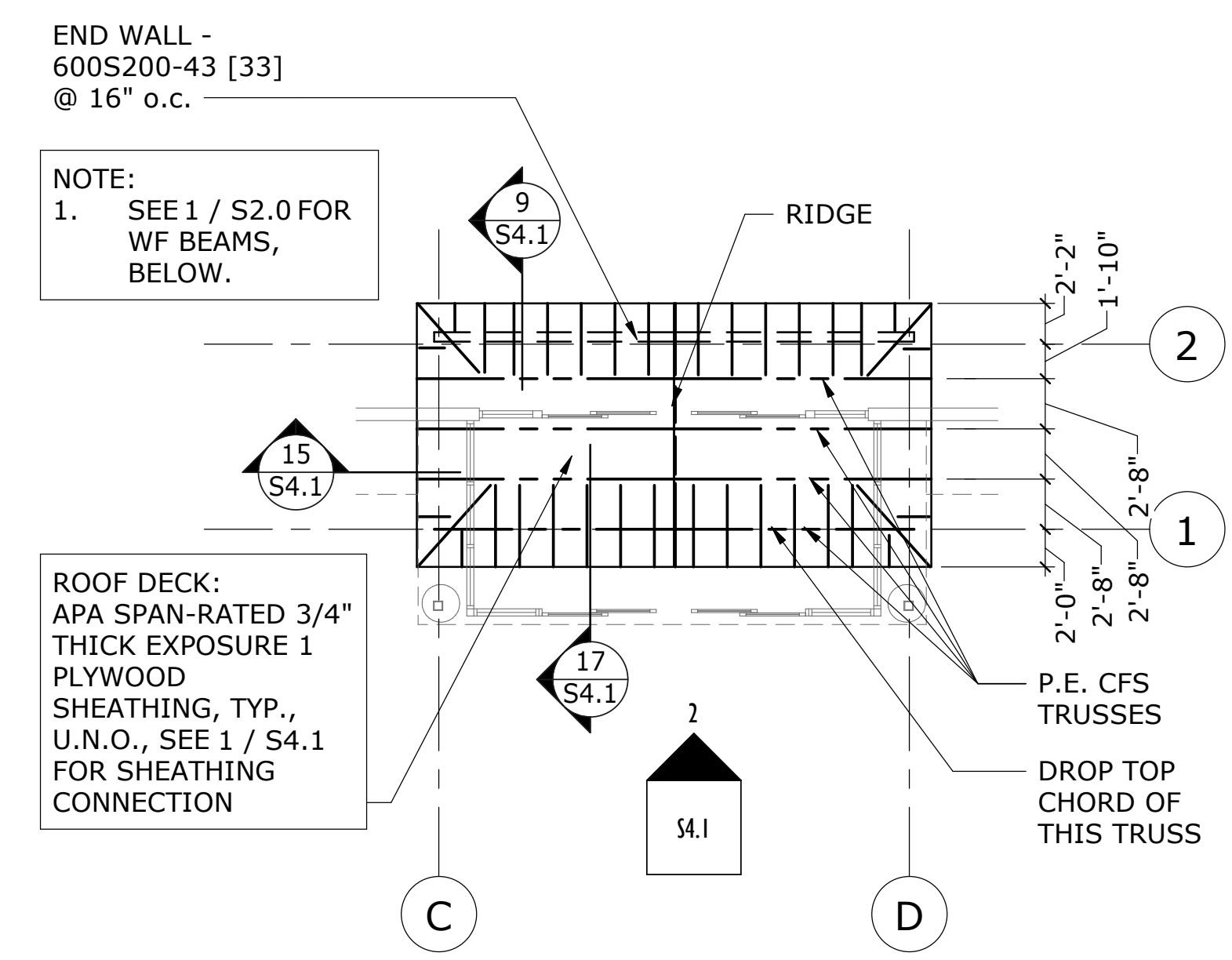
OPENINGS UP TO 6'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
8" BLOCK	8" x 8" BOND BM. w/ 1- #5, TOP & BTM.	

OPENINGS 6'-1" TO 8'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
8" BLOCK	8" x 16" BOND BM. w/ 1- #6, TOP & BTM.	

OPENINGS 8'-1" TO 10'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
8" BLOCK	8" x 24" BOND BM. w/ 2- #5's TOP, MIDDLE, & BTM.	MIN. BRG - 16", EA. SIDE FEED ROOM OPENING IS LIMITED TO 10'-0"

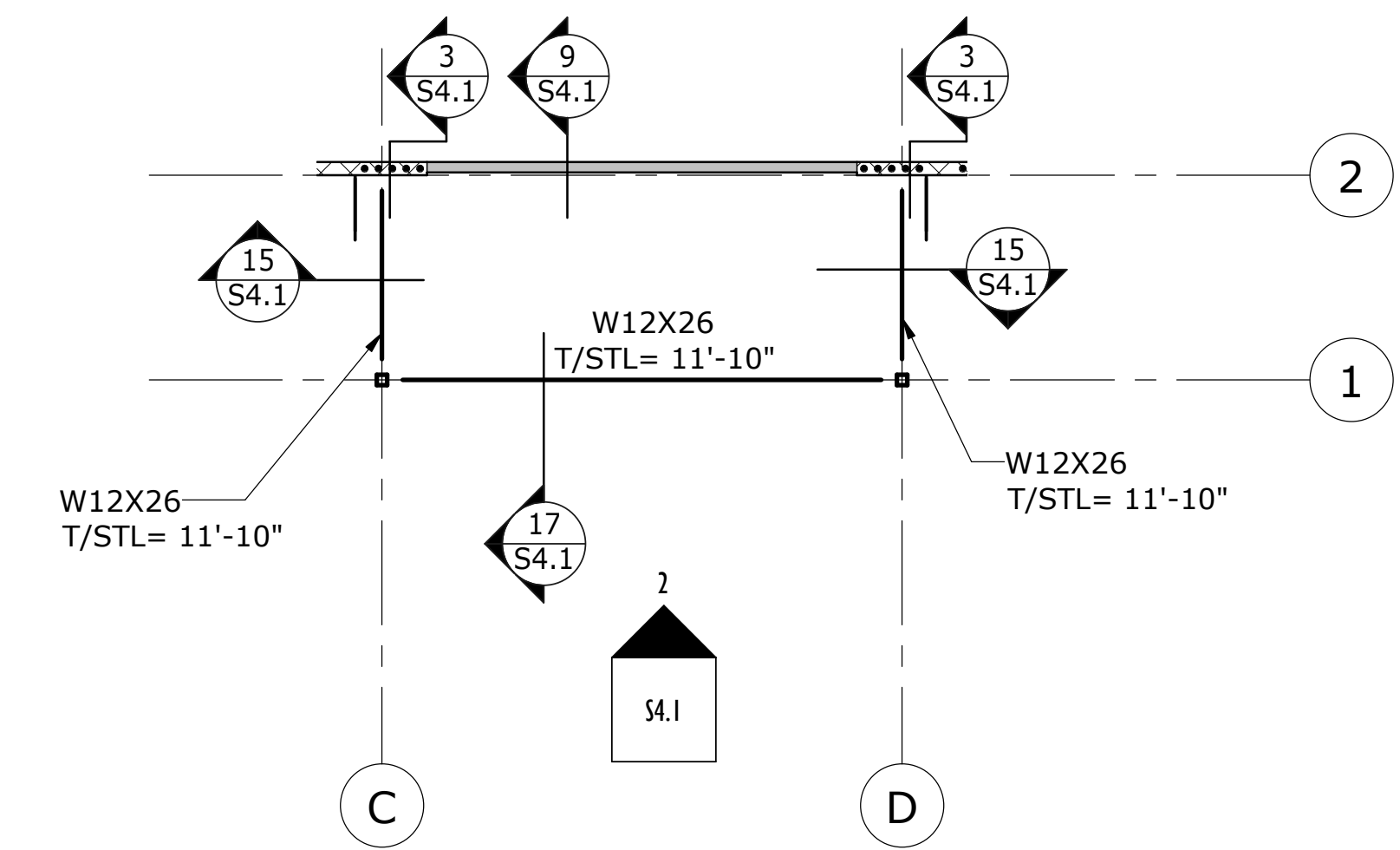
OPENINGS 10'-1" TO 12'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
8" BLOCK	8" x 40" BOND BM. w/ 2- #6's, TOP, MIDDLE & BTM.	MIN. BRG - 16", EA. SIDE EXTERIOR OPENINGS ONLY

13 LINTEL SCHEDULE
SCALE: 1" = 1'-0"



NOTE:
1. TOP OF STEEL ELEV. = SEE 1 / S2.0.
2. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF BEARING WALLS AND DIMENSIONS NOT SHOWN.
3. ROOF TRUSSES SHALL BEAR AT SIDE BEAMS.
4. **BLOCKING TRUSSES SHALL HAVE A UNIFORM LATERAL CAPACITY OF 0.30 K/FT (ASD).**

6 HIGH ENTRY FRAMING PLAN
SCALE: 1/8" = 1'-0"



NOTE:
1. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF BEARING WALLS AND DIMENSIONS NOT SHOWN.

5 LOW ENTRY FRAMING PLAN
SCALE: 1/8" = 1'-0"

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Date: 03.22.2024

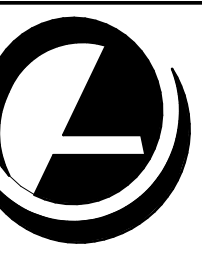
Revisions: Δ

Revisions: Δ

Revisions: Δ
ROOF FRAMING PLAN, CONT.

Sheet Number: **S2.1**

WE-??



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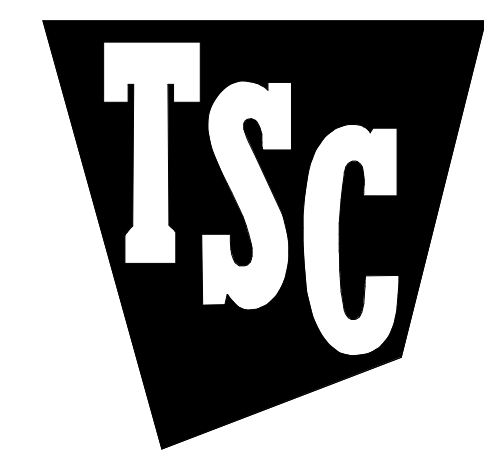
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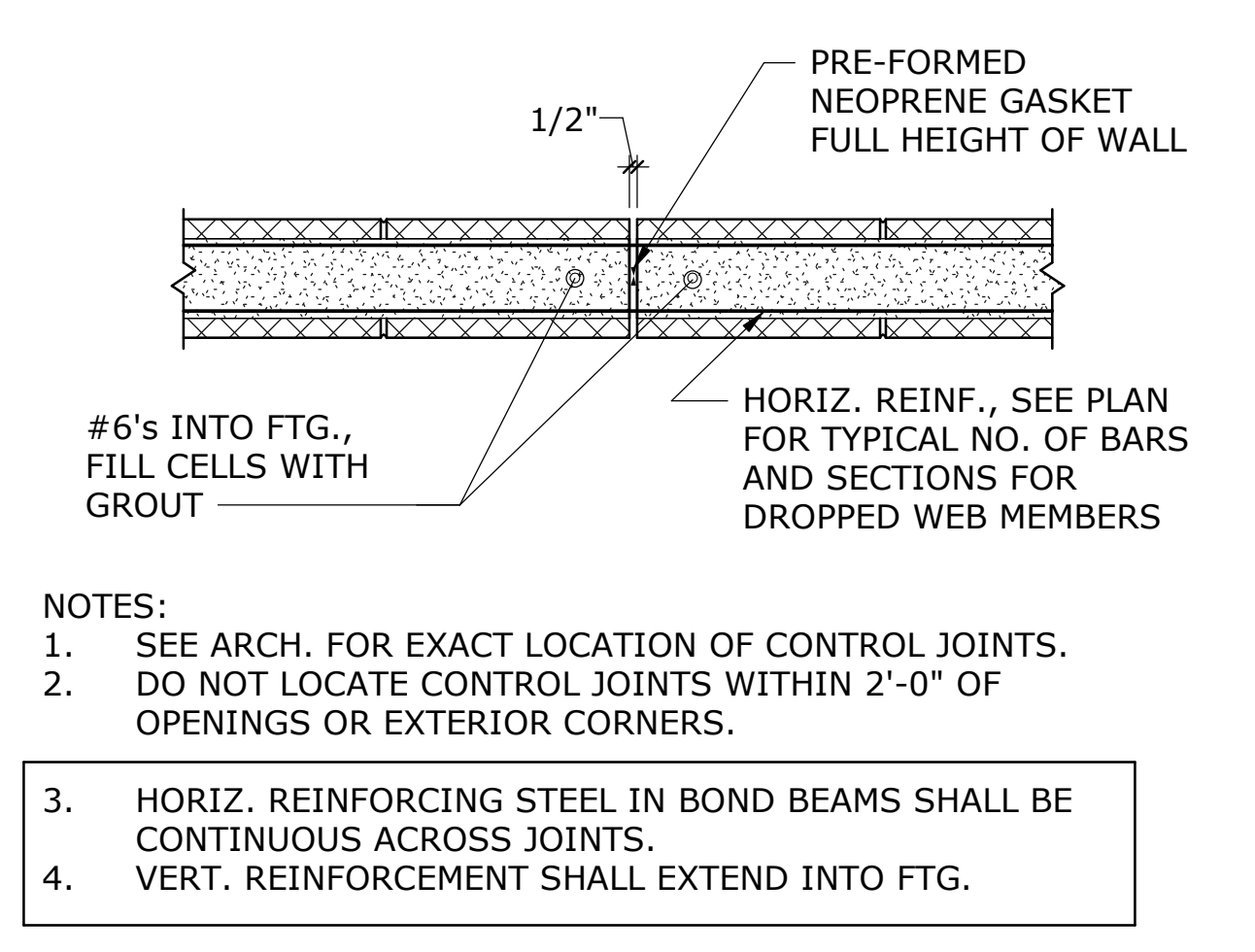
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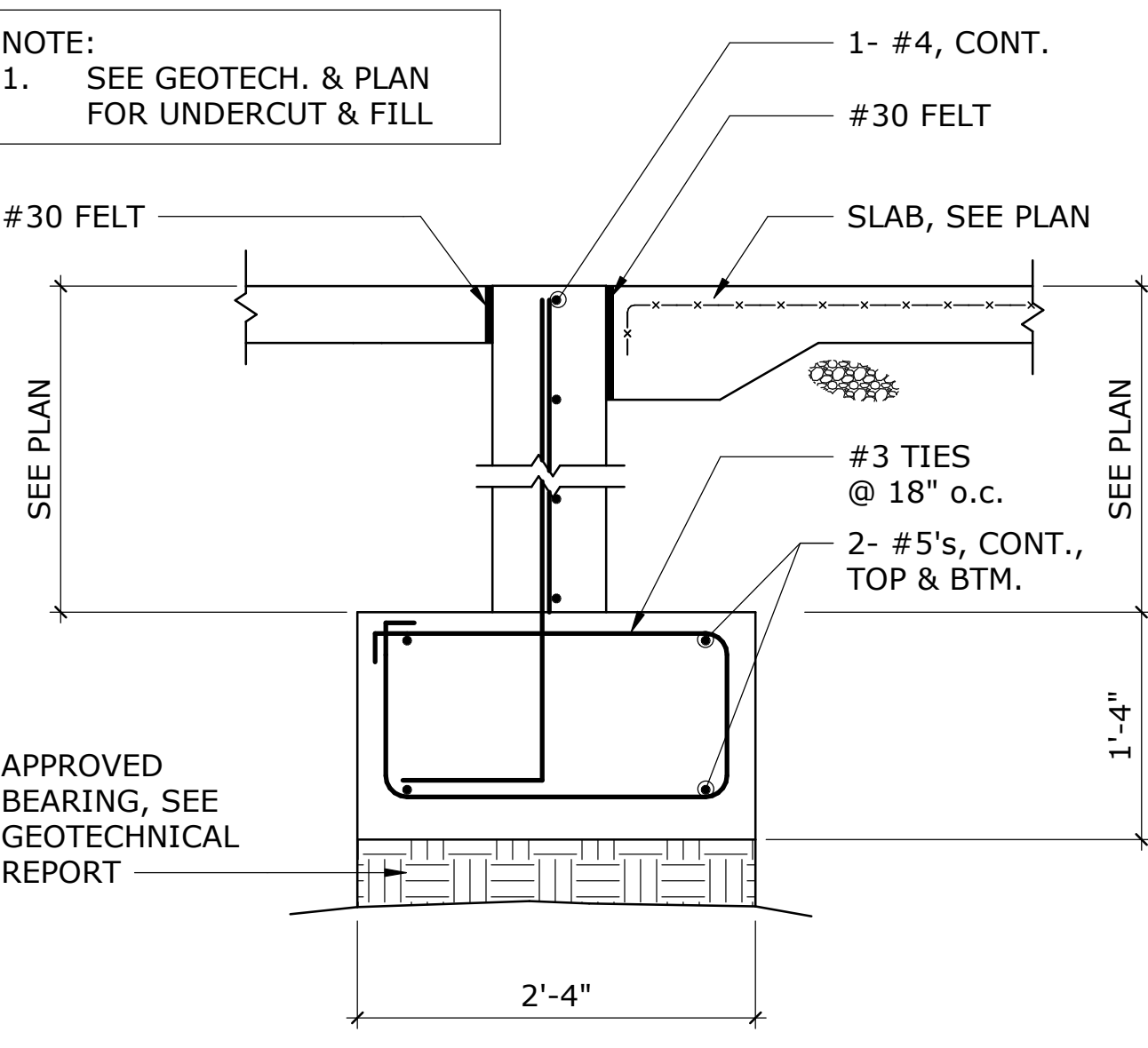


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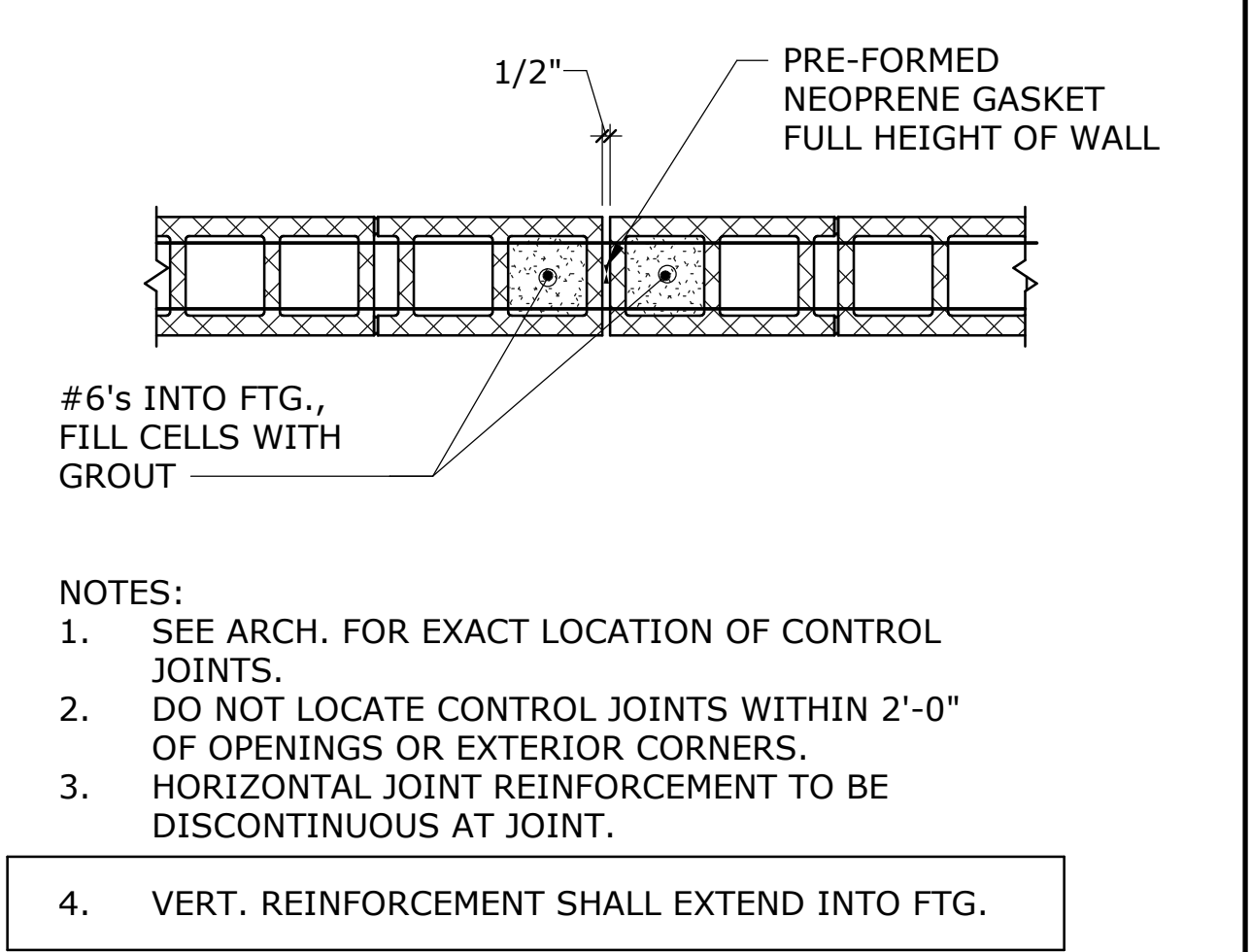
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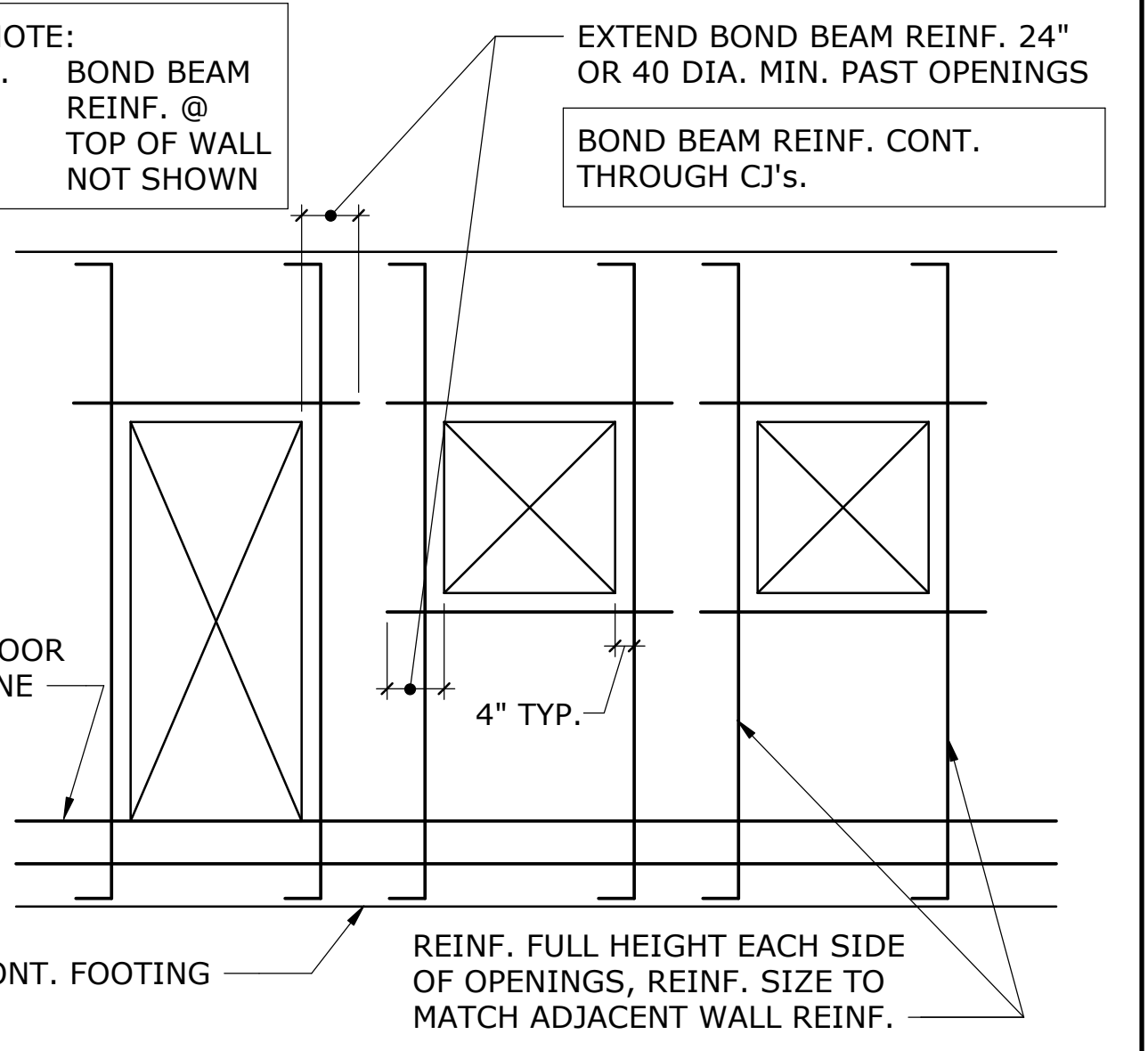
CONTROL JOINT DETAIL REINFORCED MASONRY - JOIST BEARING COURSES
SCALE: NONE



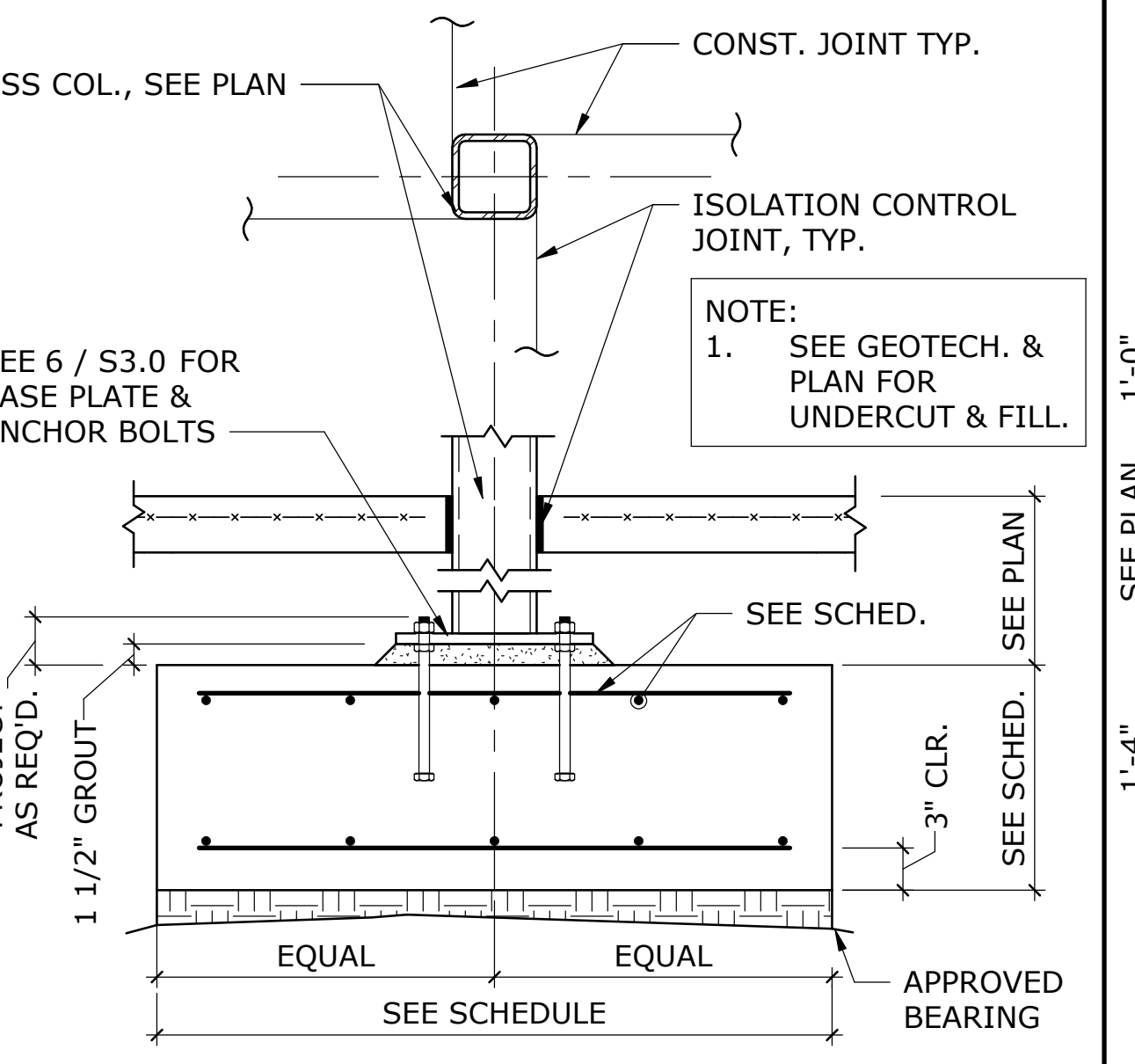
SECTION @ EXT. DOOR - ALT.
SCALE: 1" = 1'-0"



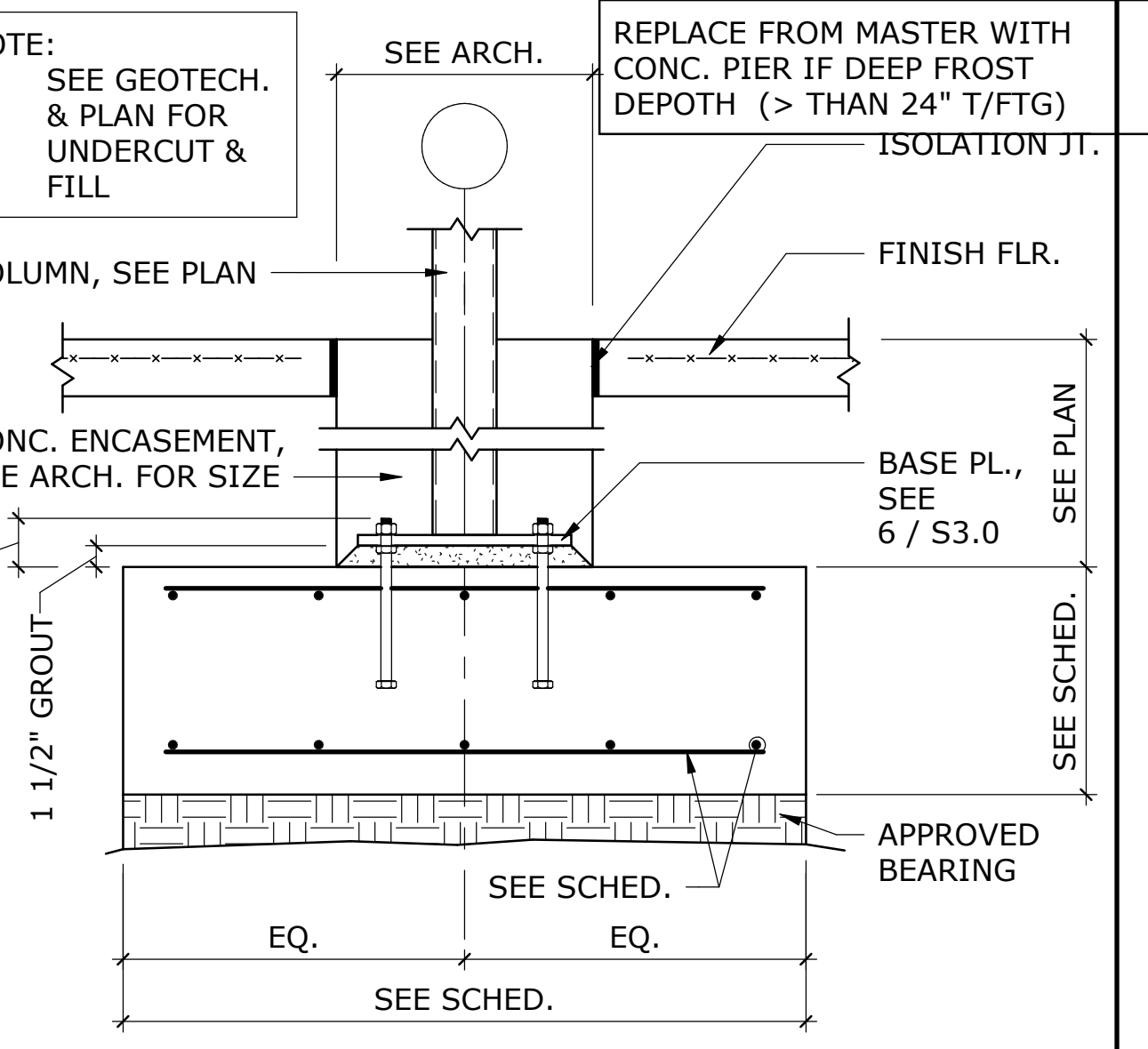
CONTROL JOINT DETAIL REINFORCED MASONRY - TYP. NON JOIST BRG/. COURSES
SCALE: NONE



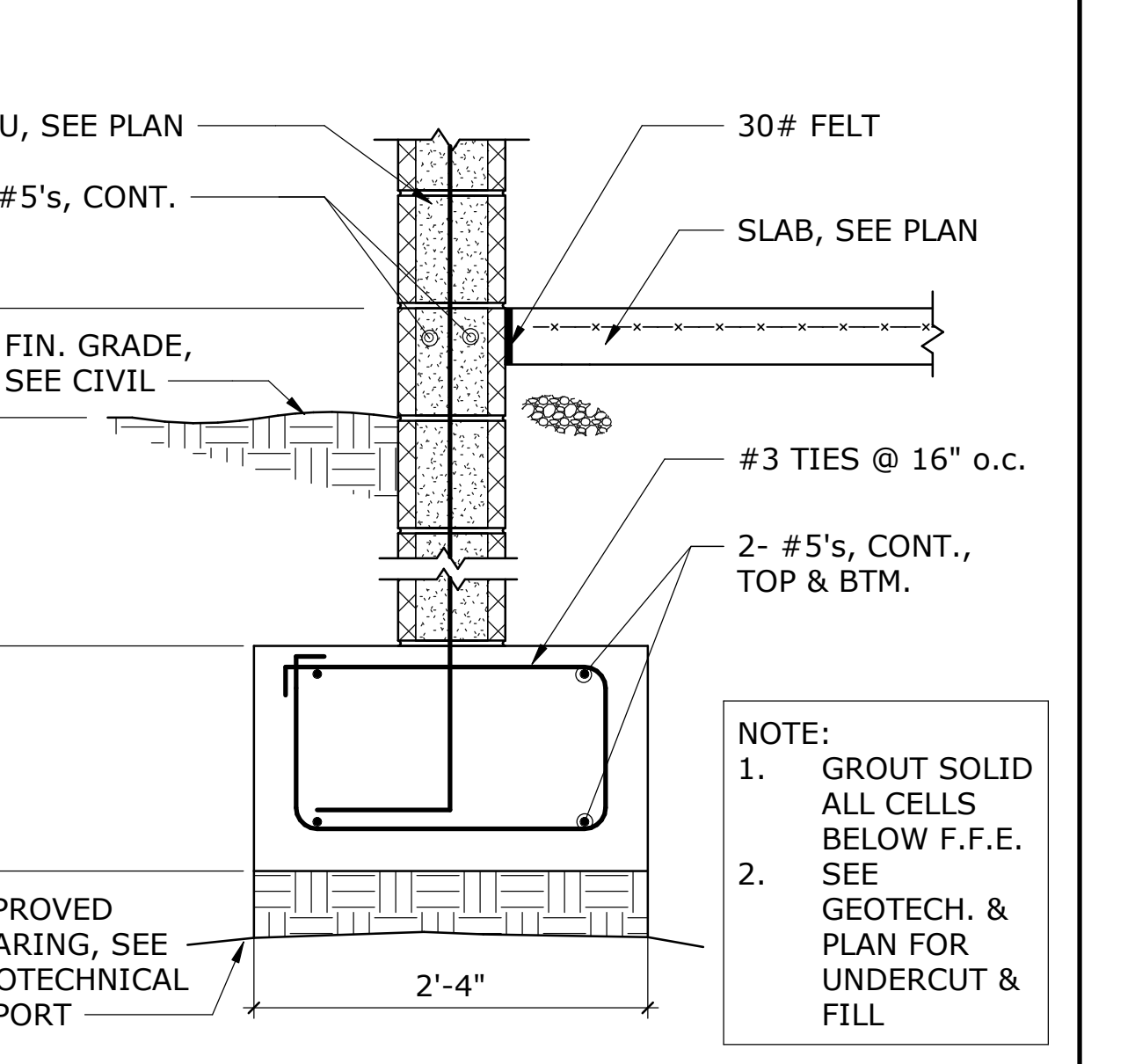
TYP. CMU WALL REINFORCING
SCALE: NONE



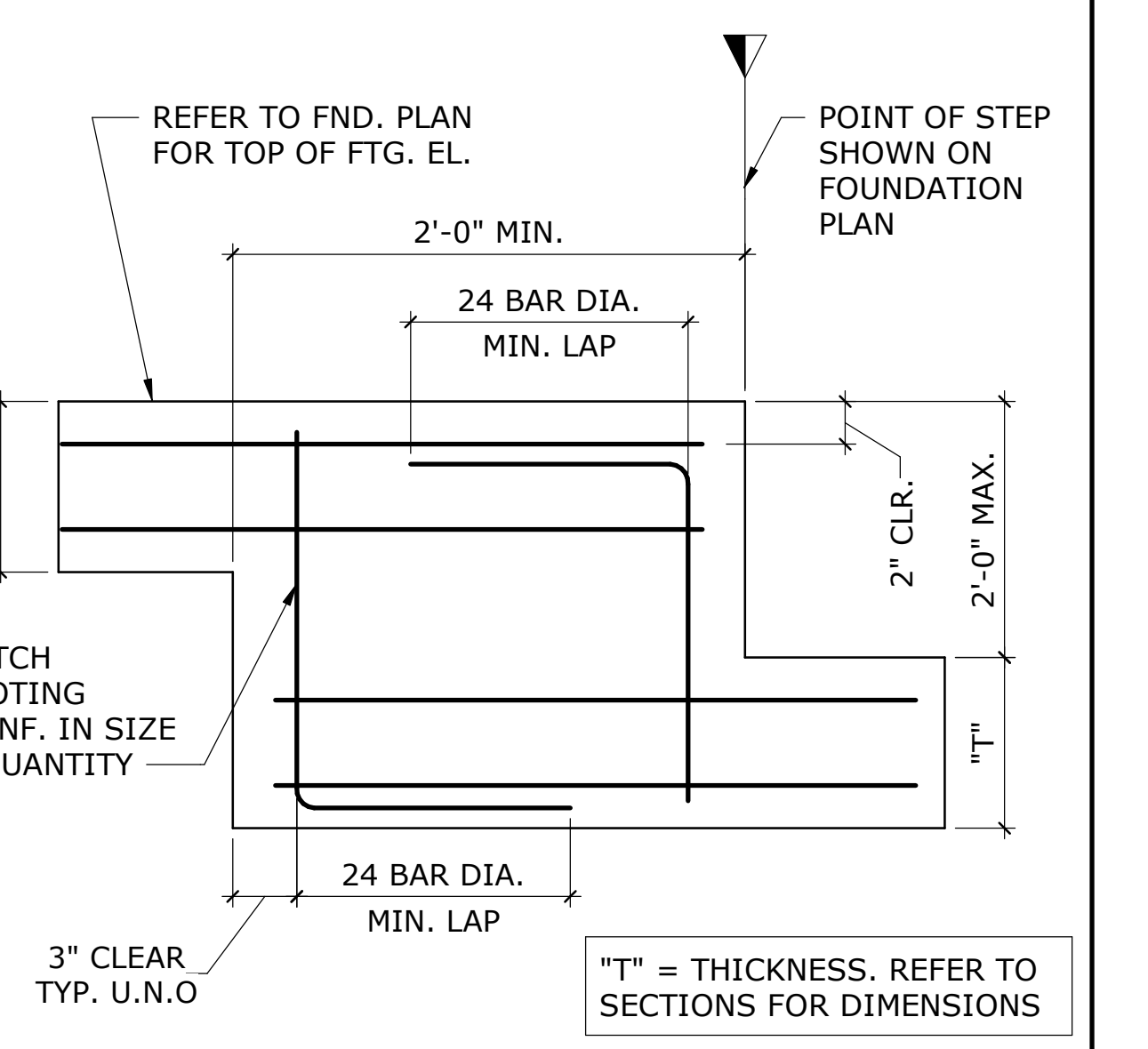
SECTION @ INTERIOR COLUMN
SCALE: 1" = 1'-0"



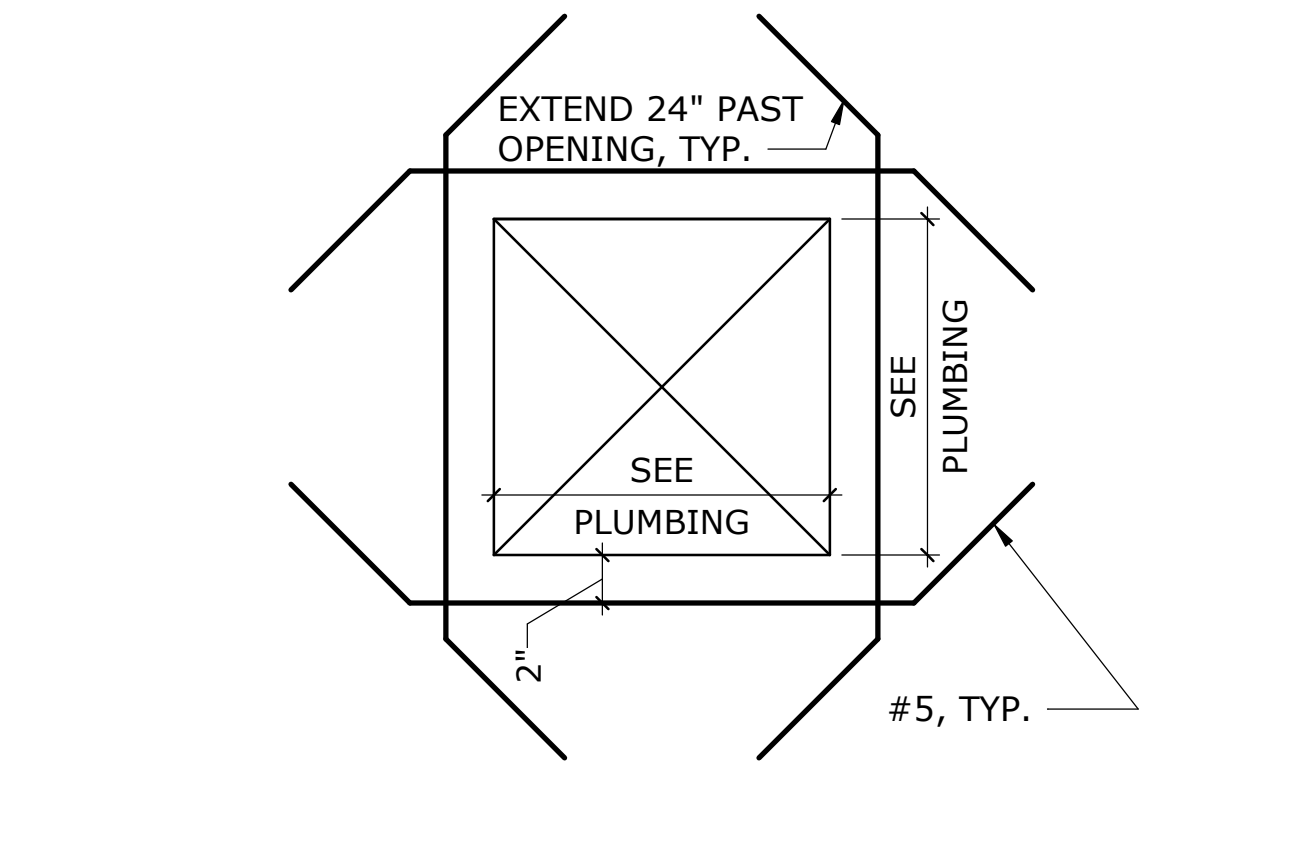
SECTION @ EXTERIOR COLUMN
SCALE: 1" = 1'-0"



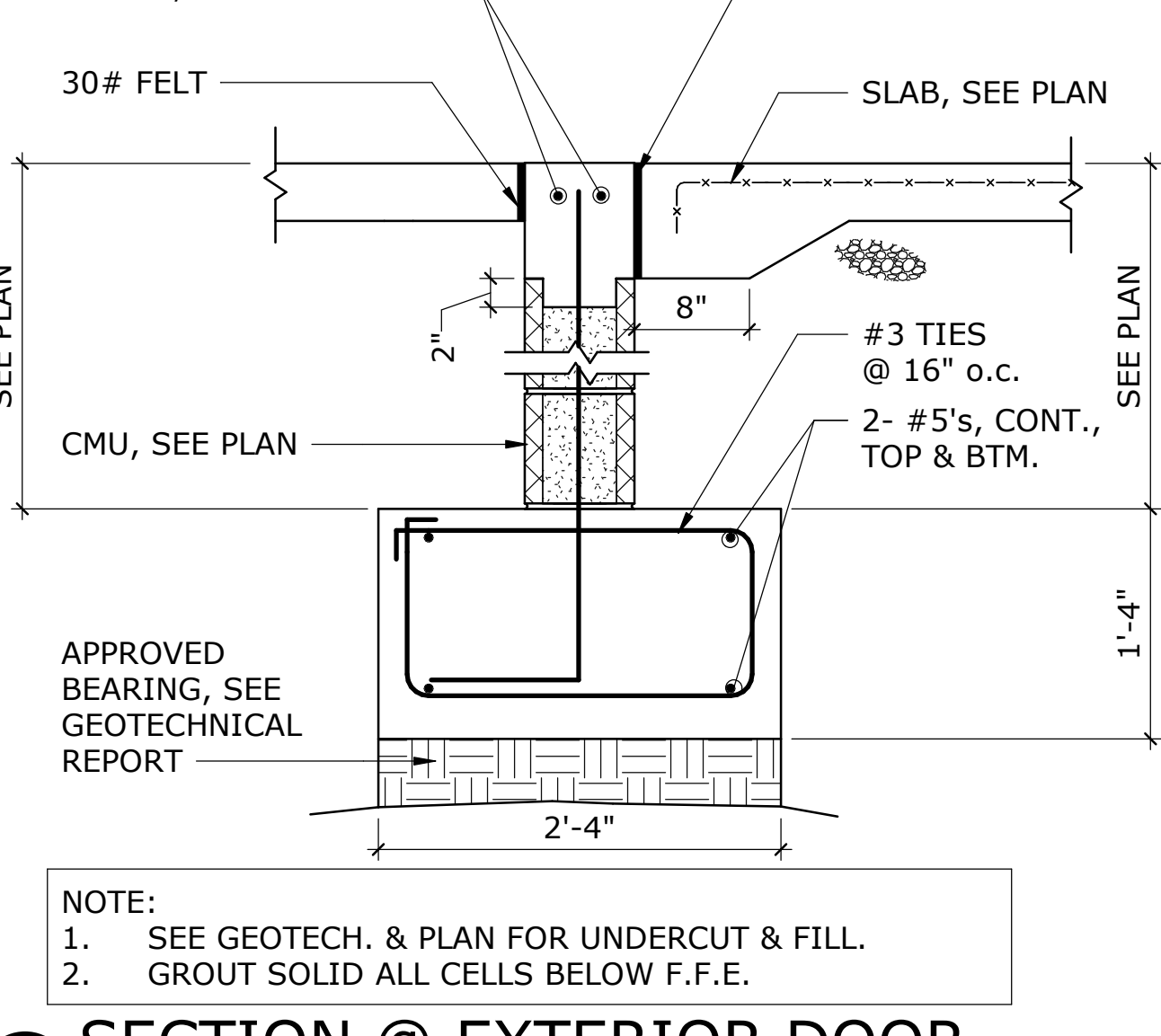
SECTION EXTERIOR WALL
SCALE: 1" = 1'-0"



TYP. STEPPED FOOTING
SCALE: NONE



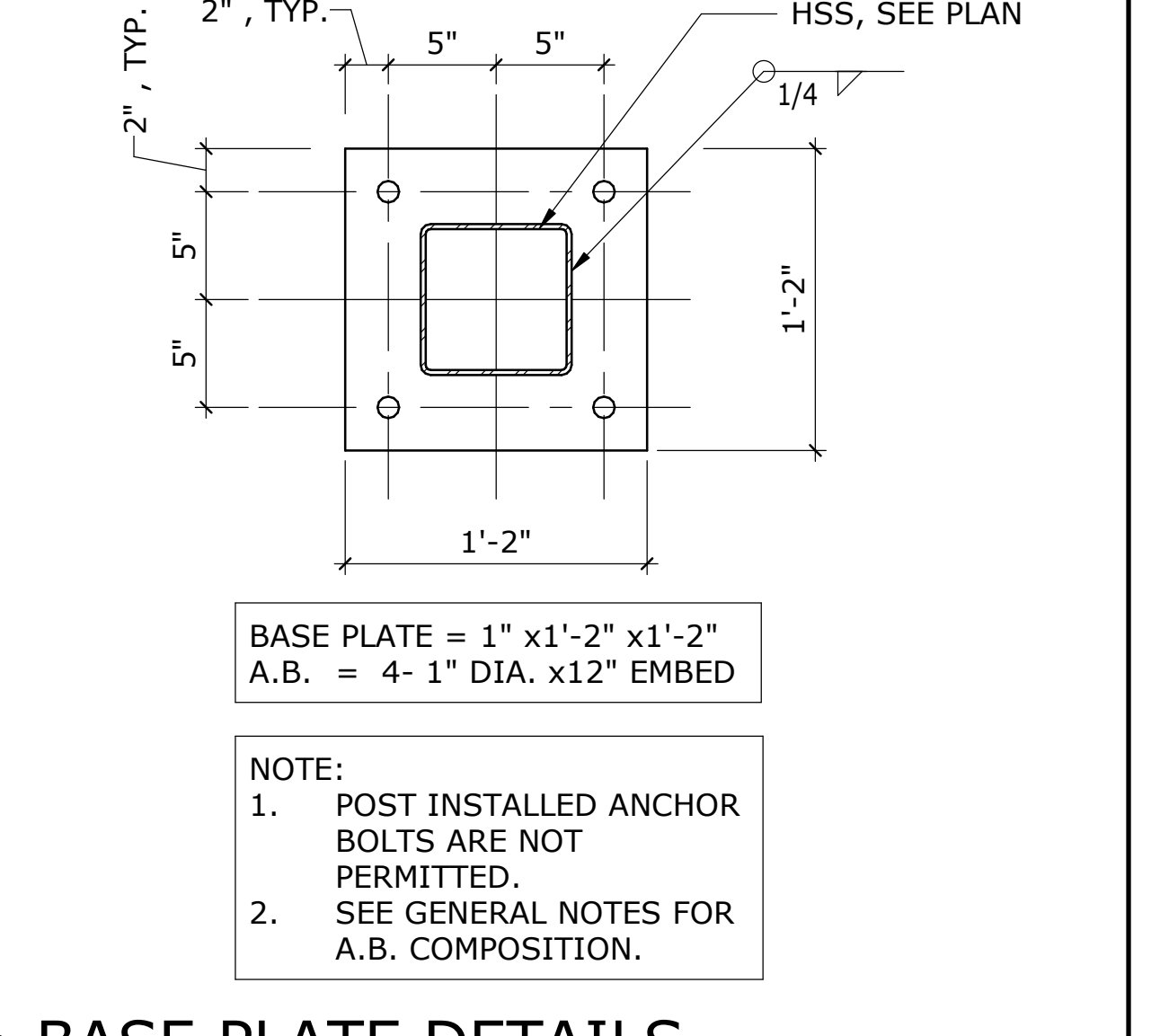
FLOOR OPENING REINF. @ FLOOR DRAIN
SCALE: 1 1/2" = 1'-0"



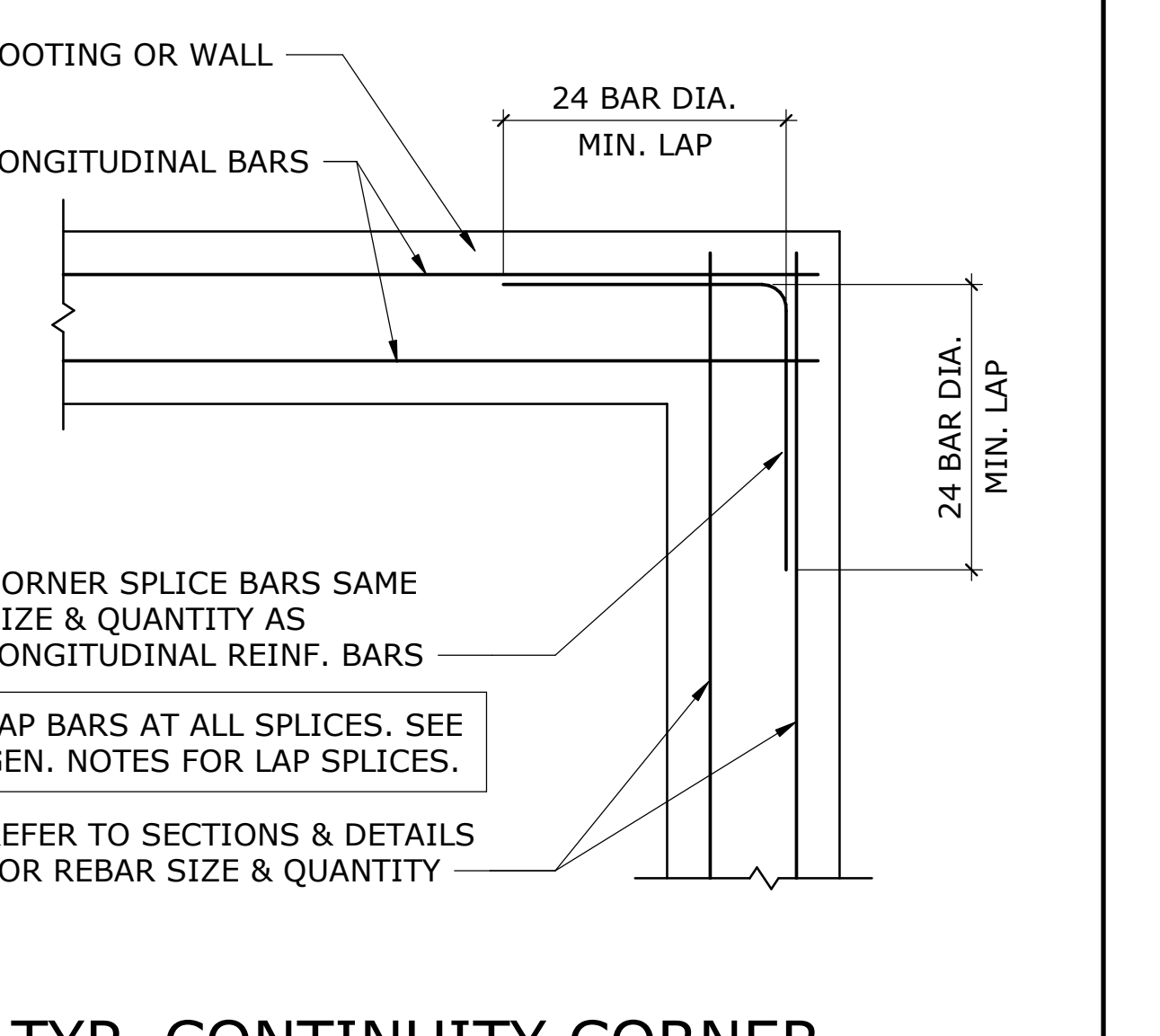
SECTION @ EXTERIOR DOOR
SCALE: 1" = 1'-0"



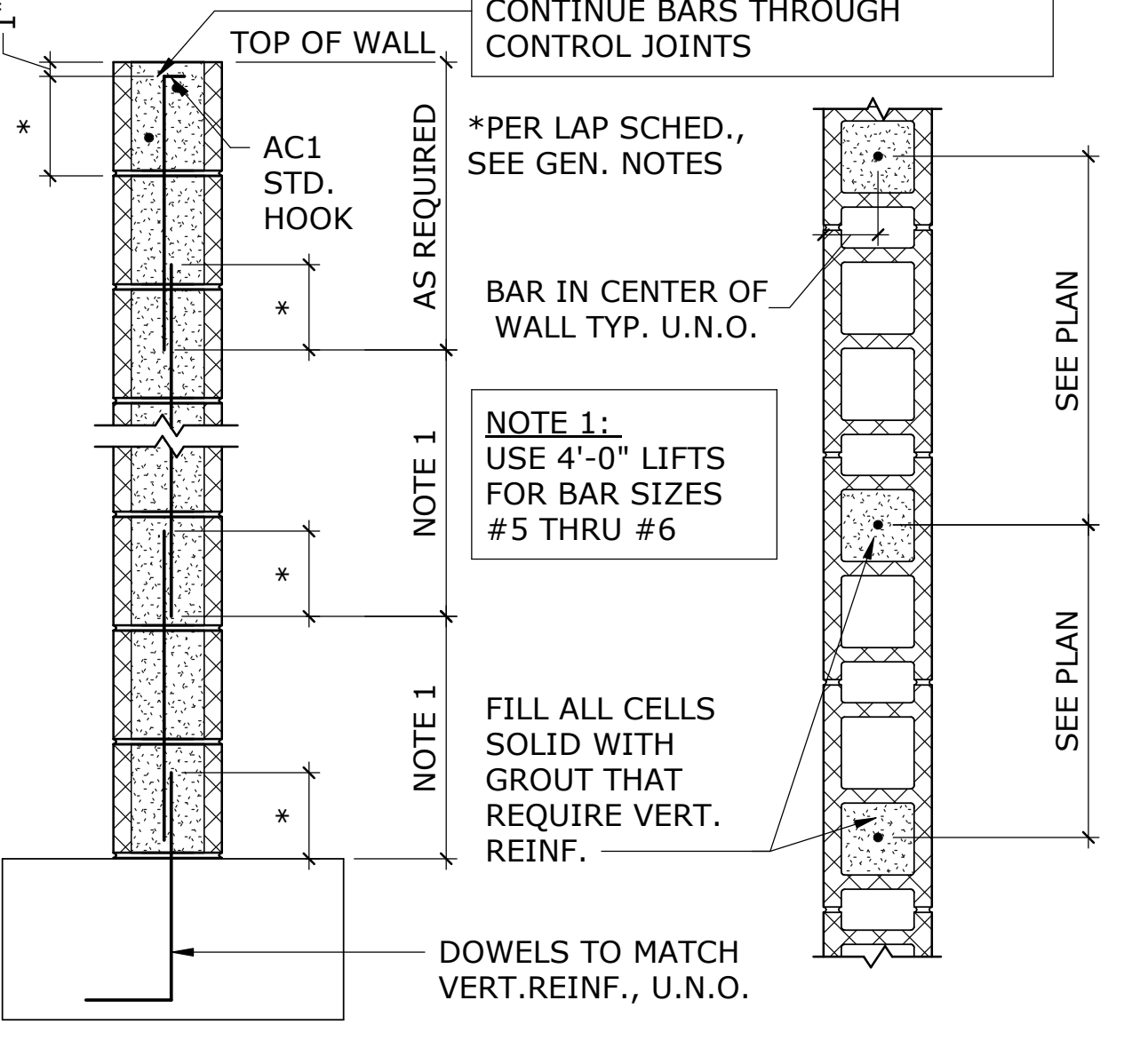
BASE PLATE DETAILS
SCALE: 1 1/2" = 1'-0"



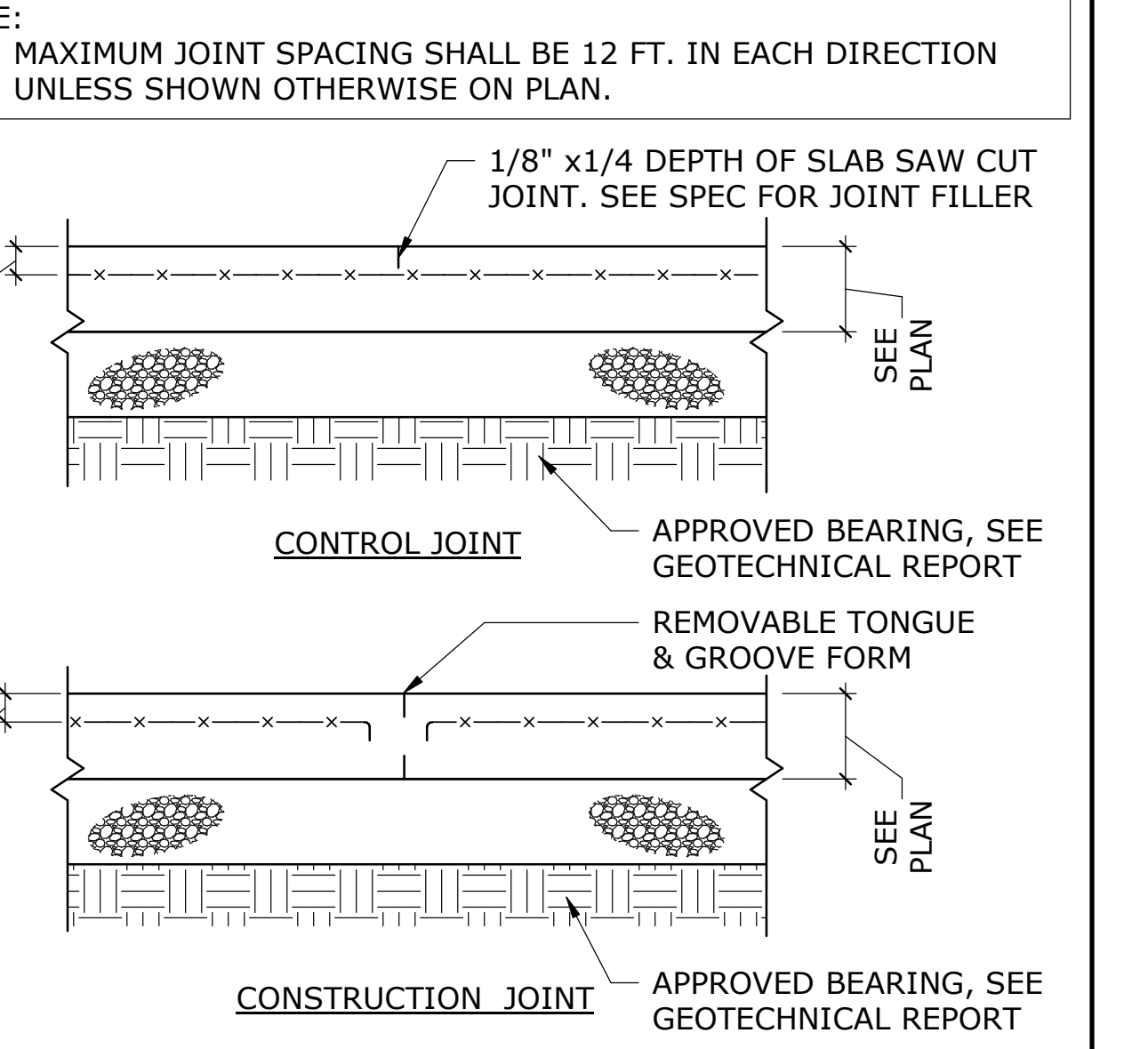
SECTION @ EXT WALL - ALT
SCALE: 1" = 1'-0"



TYP. CONTINUITY CORNER
SCALE: NONE



DETAIL VERTICAL BARS
SCALE: NONE



SLAB ON GRADE JOINTS
SCALE: NONE

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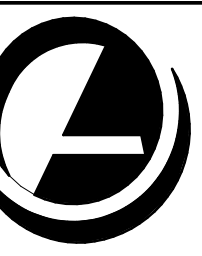
Revisions: Δ

Revisions: Δ

DETAILS

Sheet Number: S3.0

WE-??



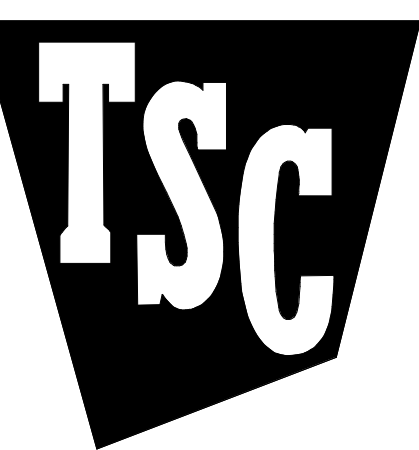
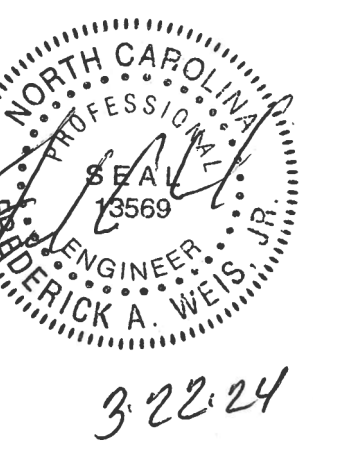
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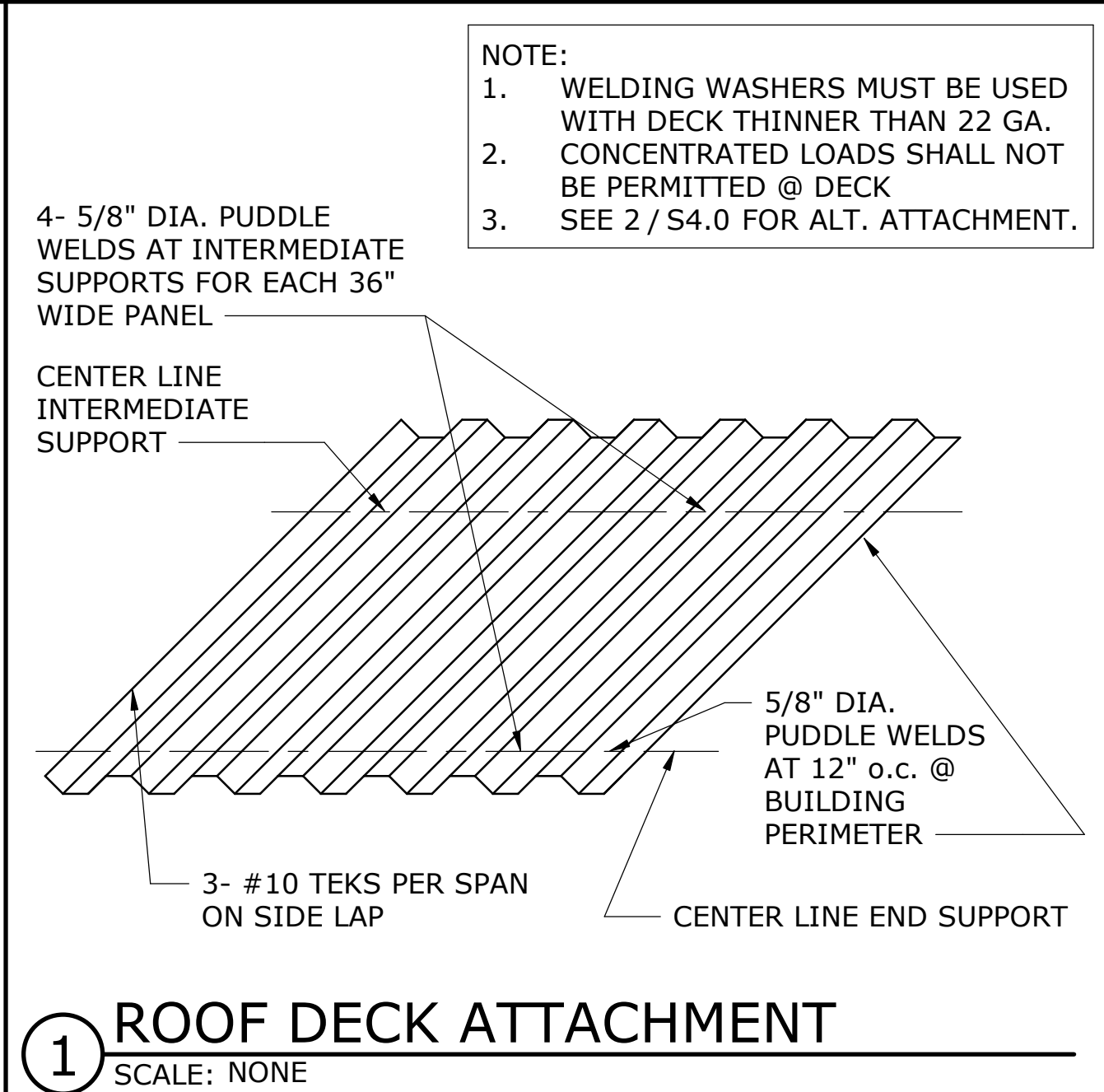
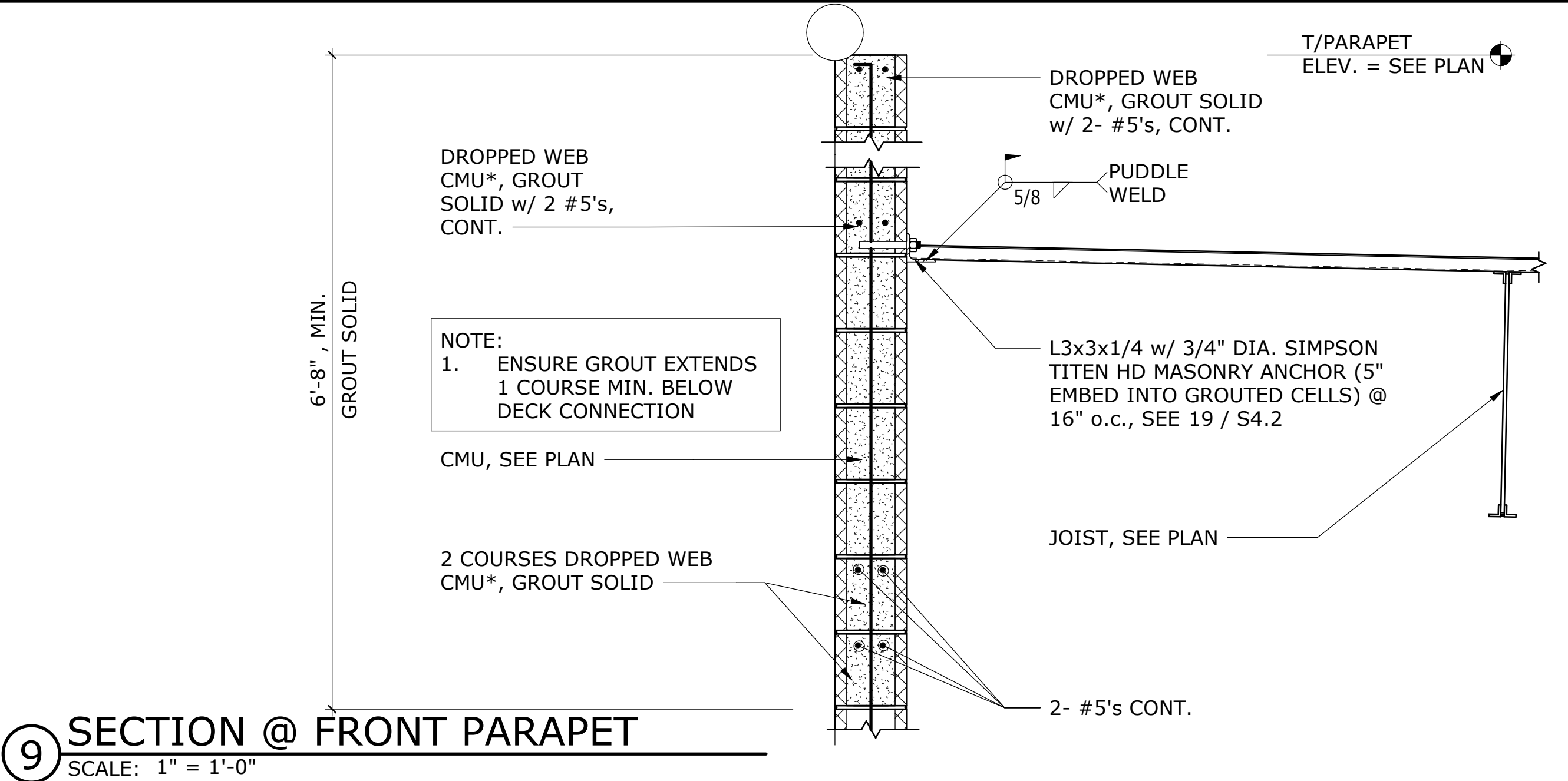
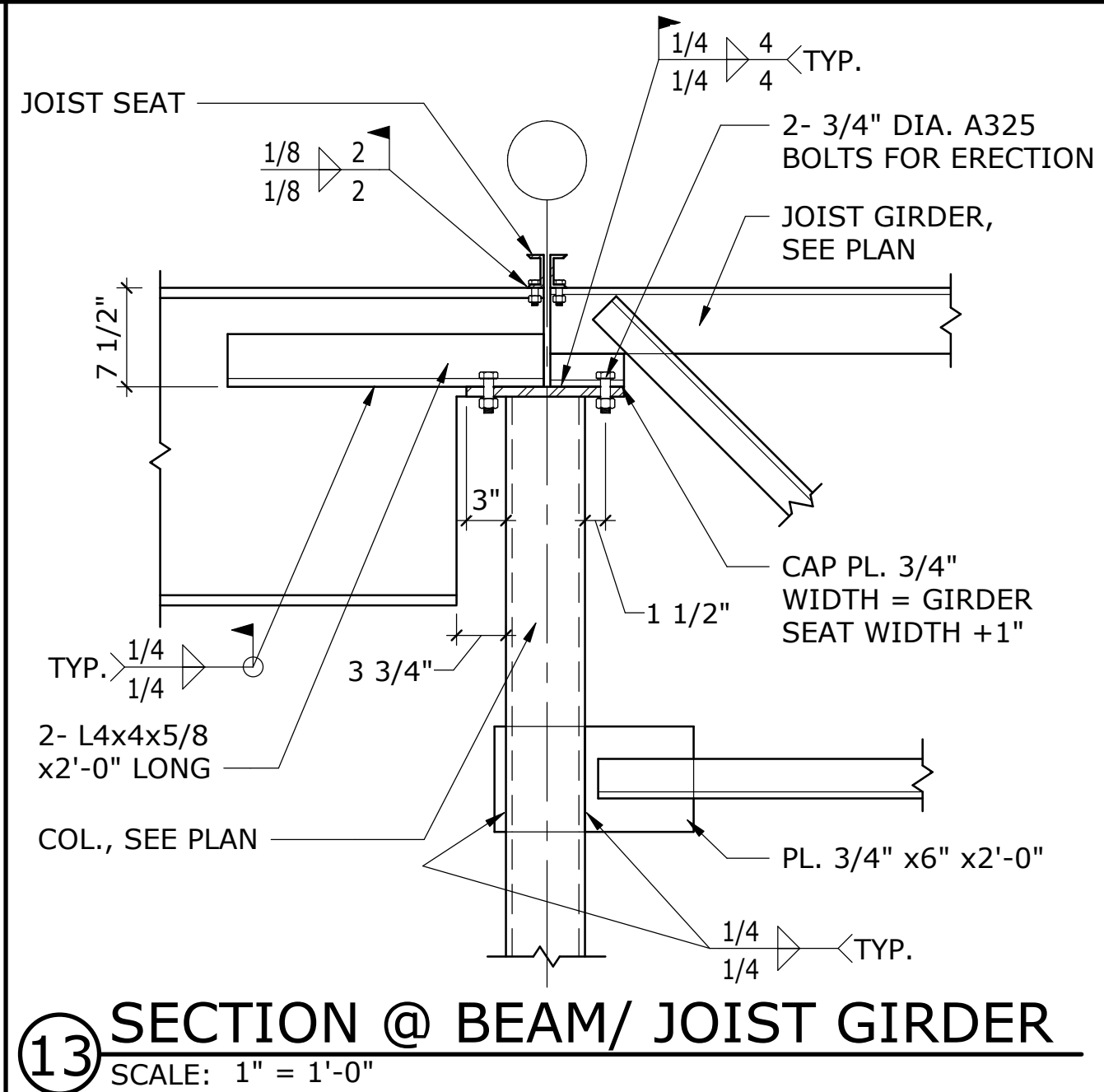
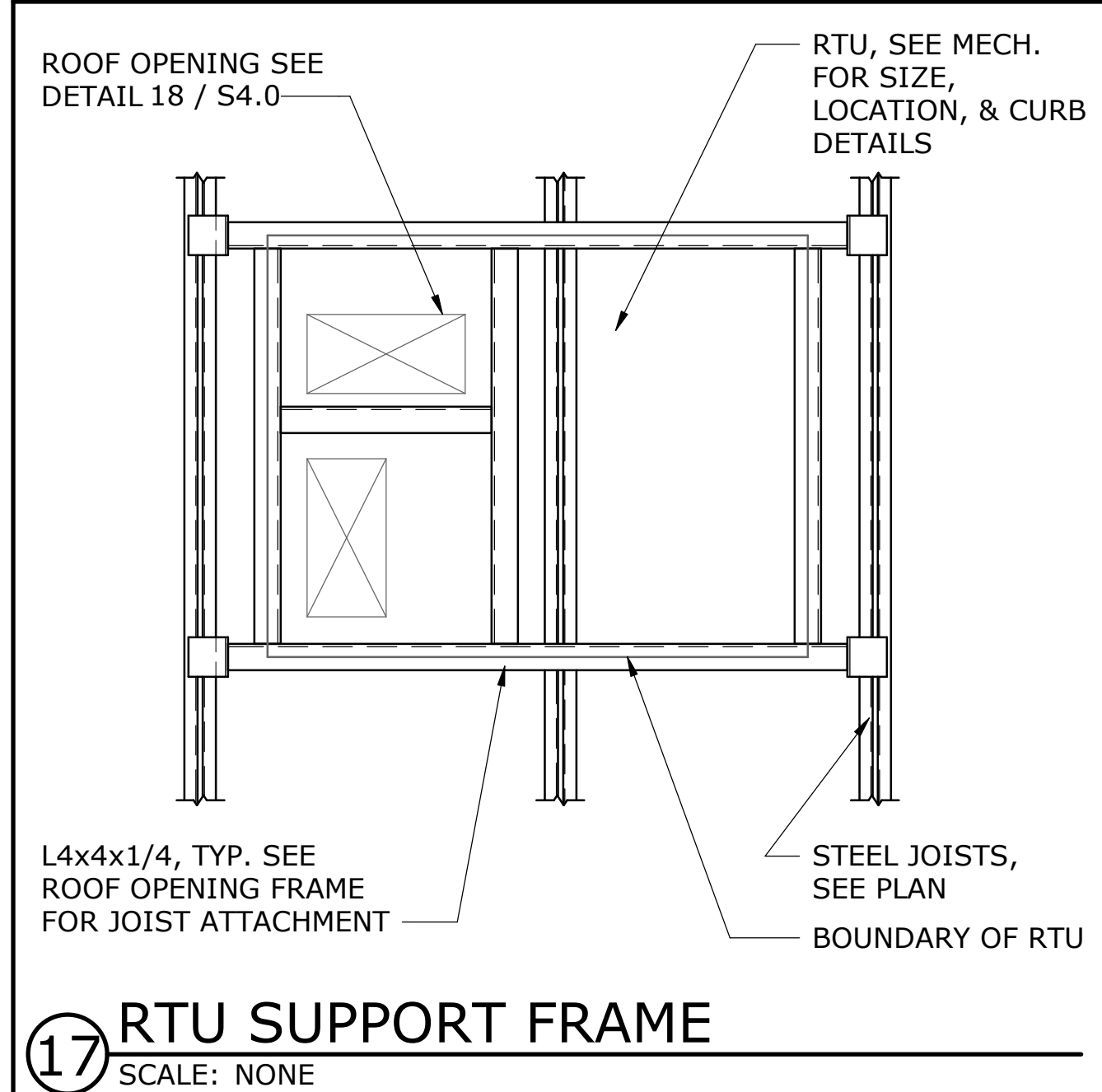
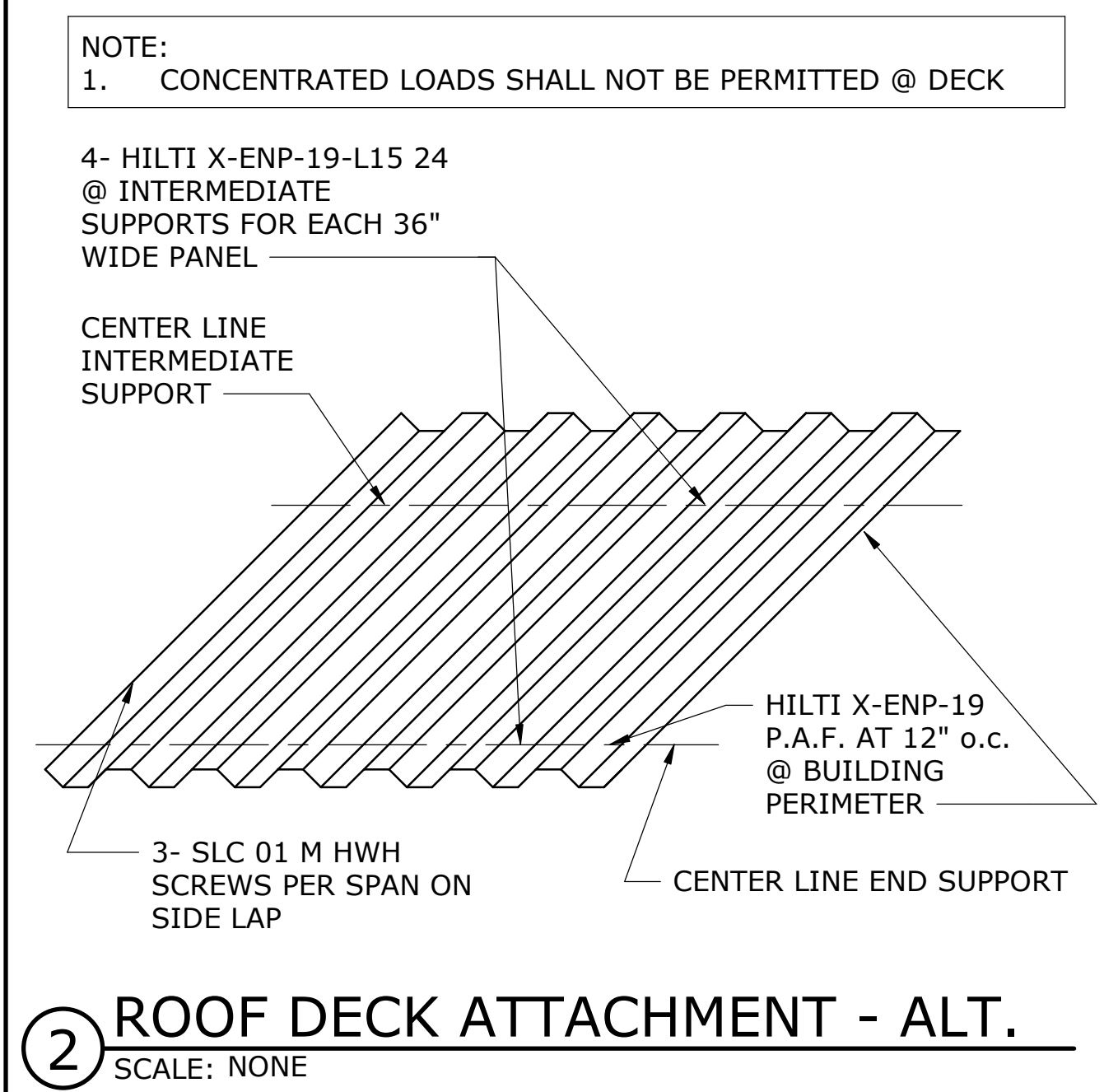
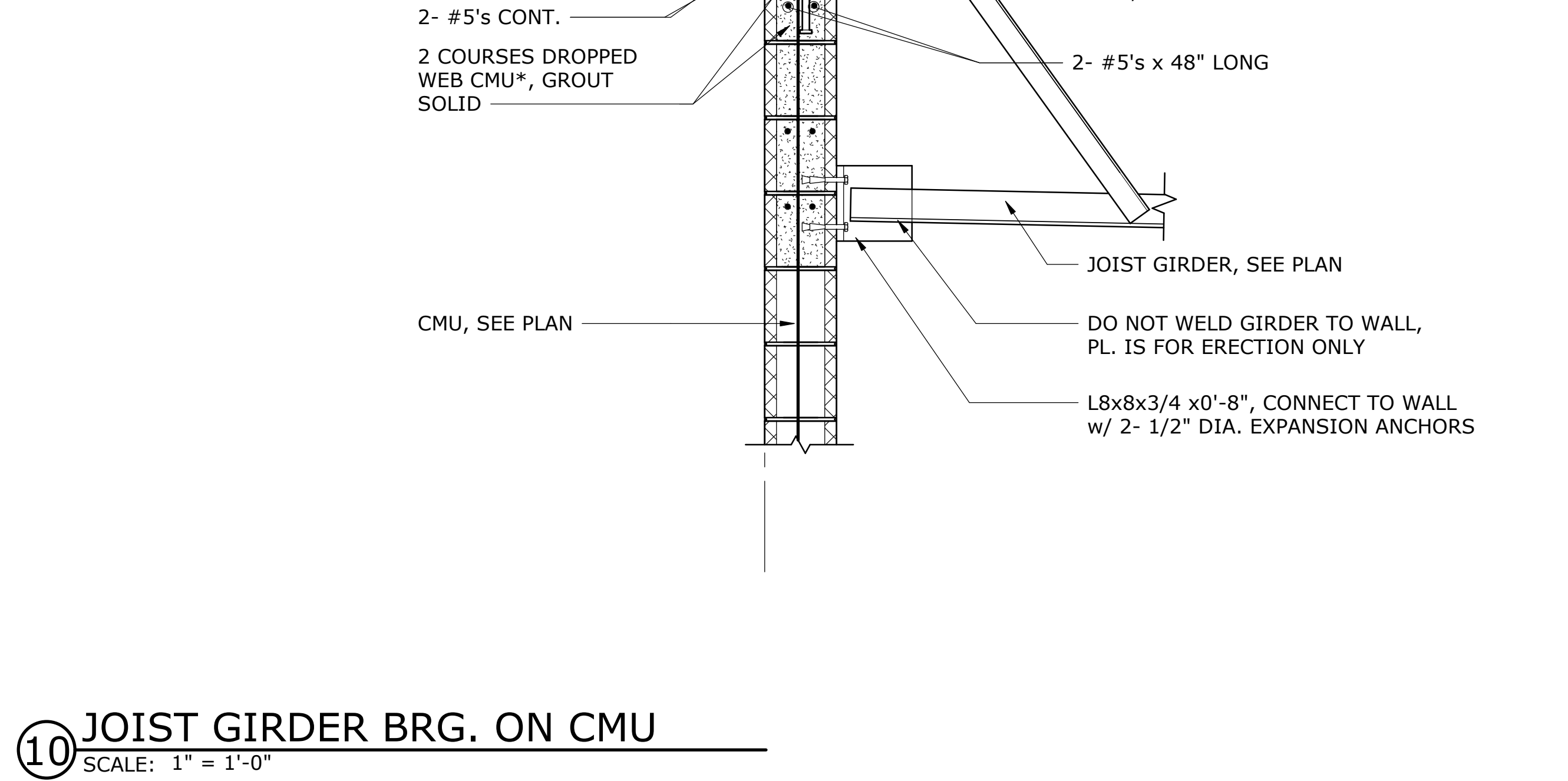
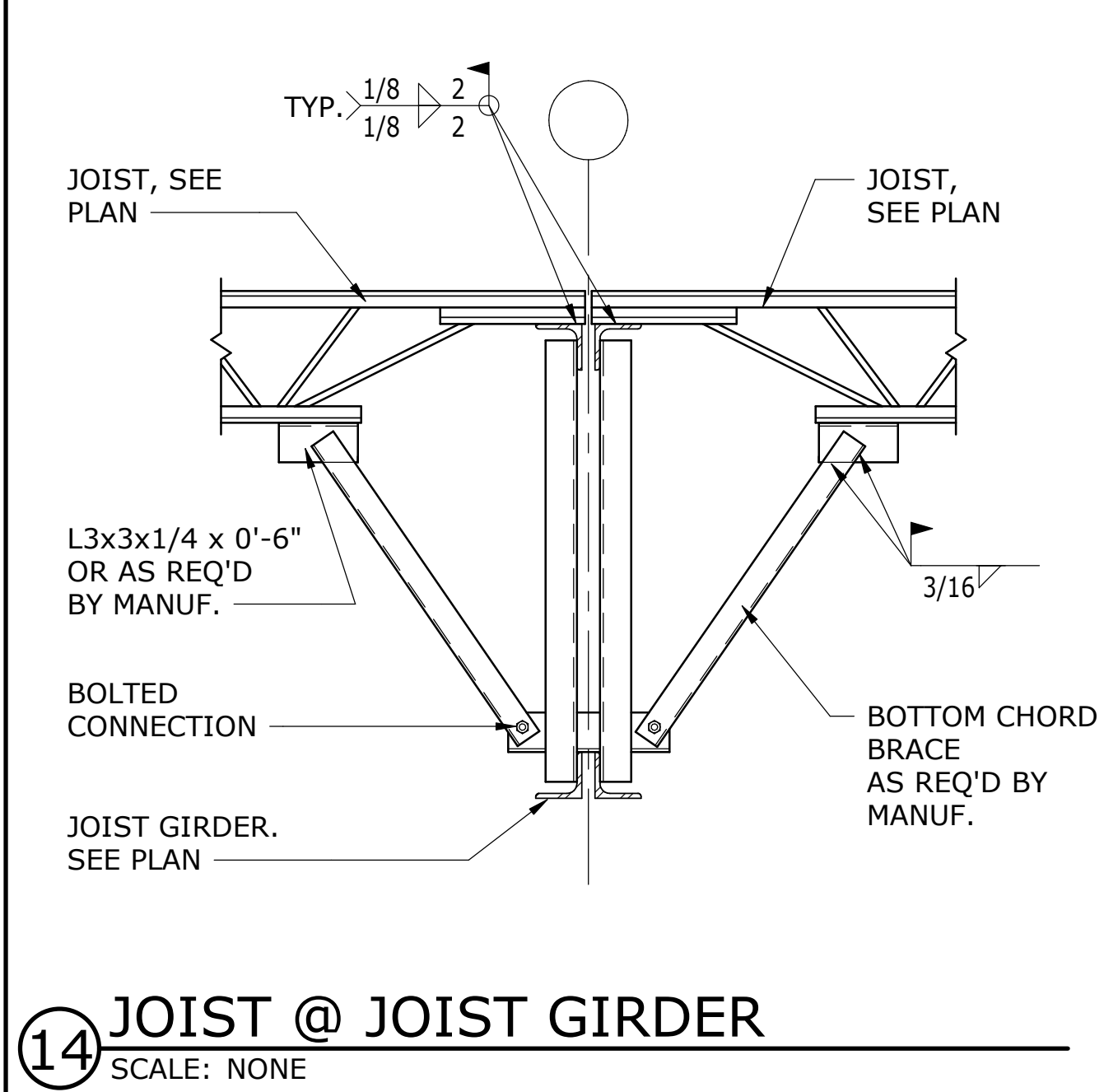
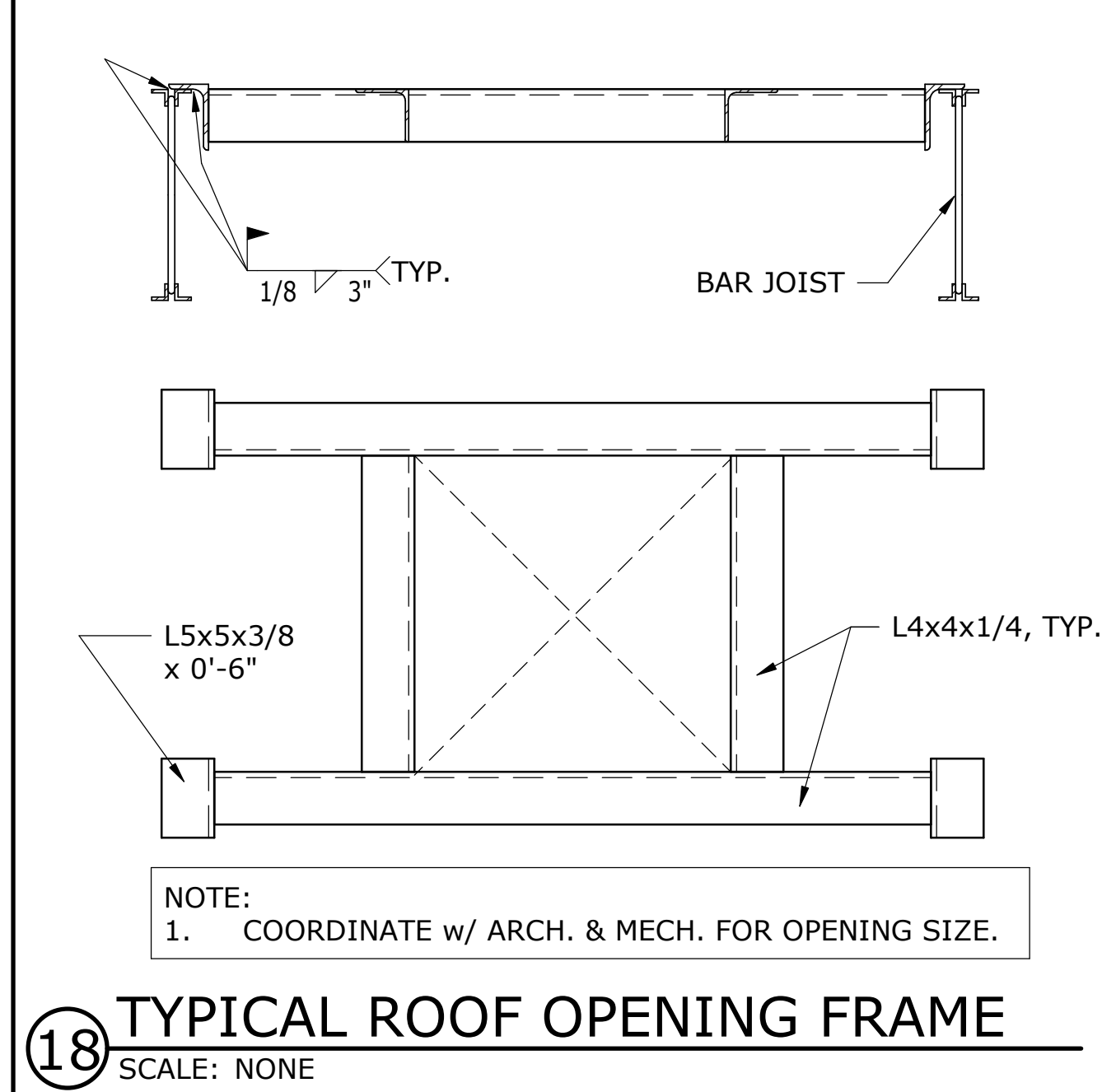
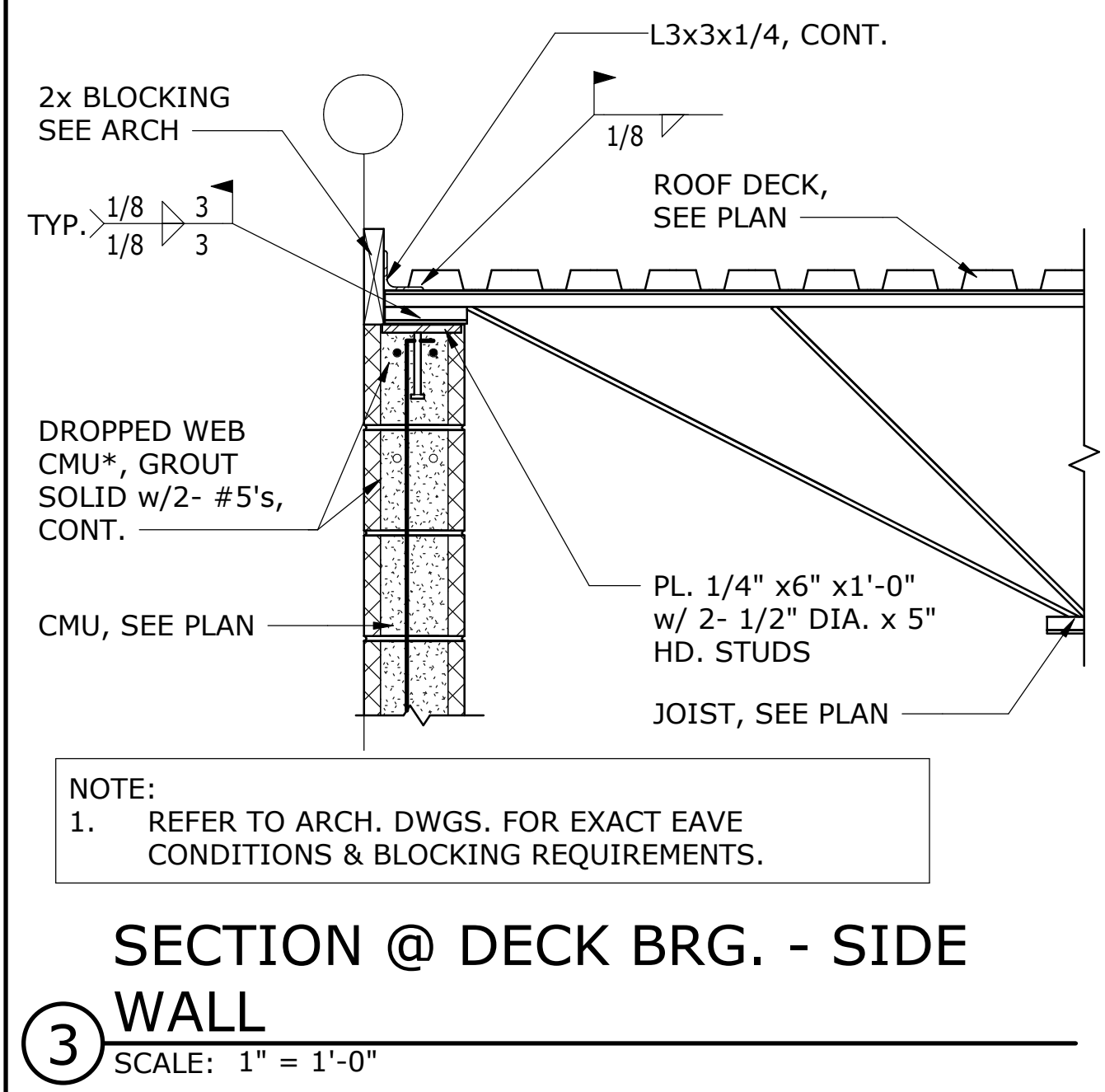
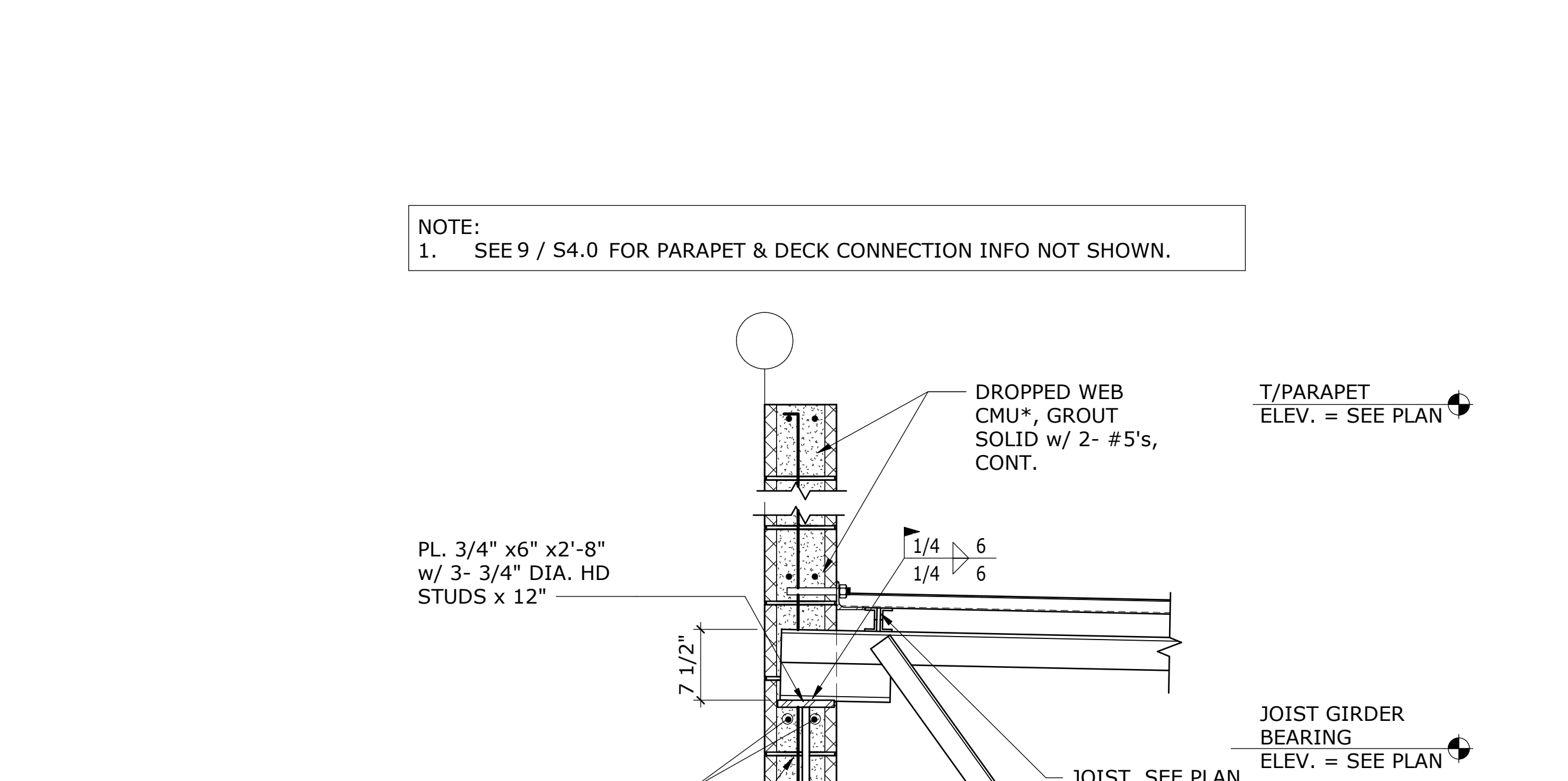
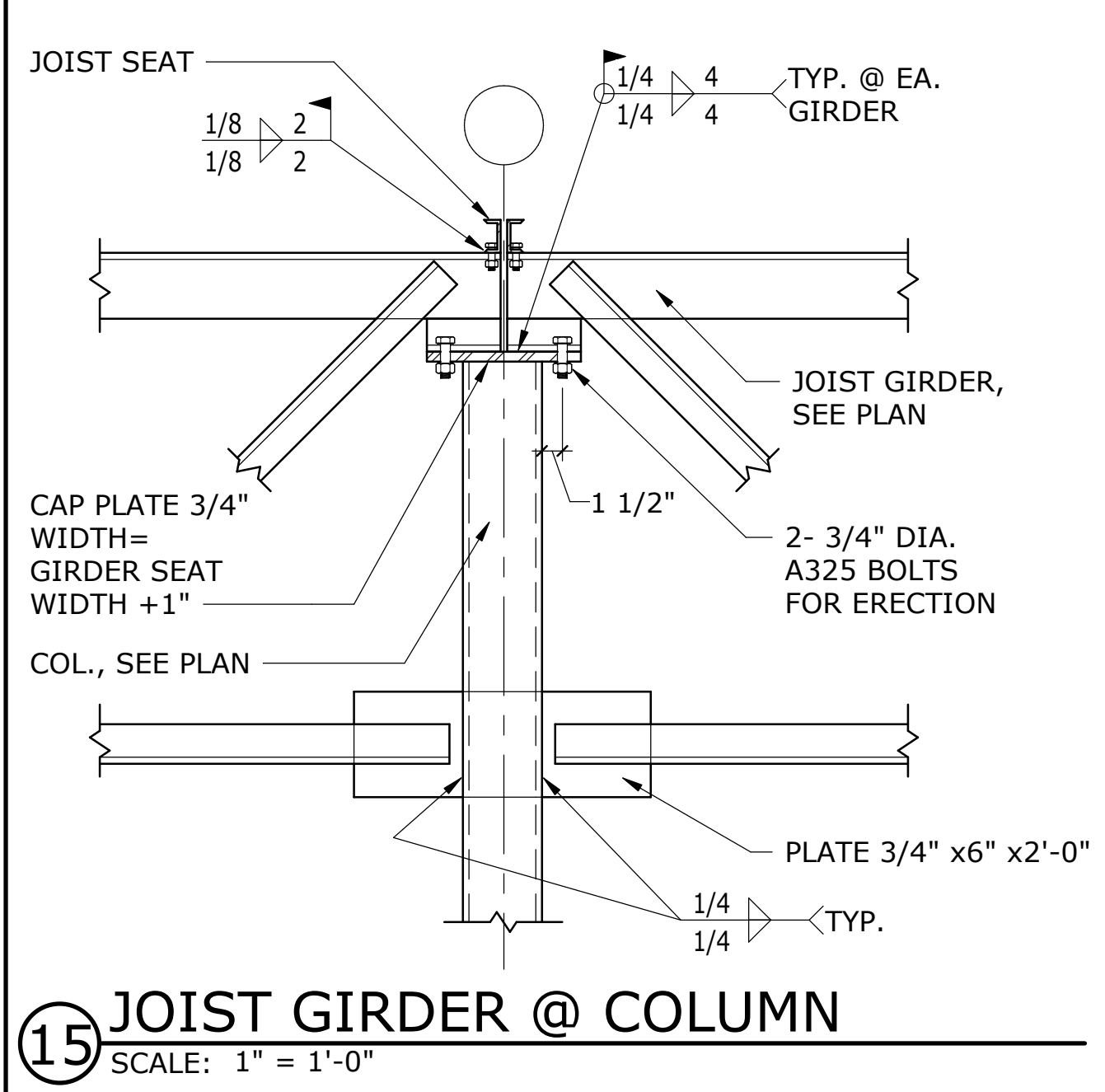
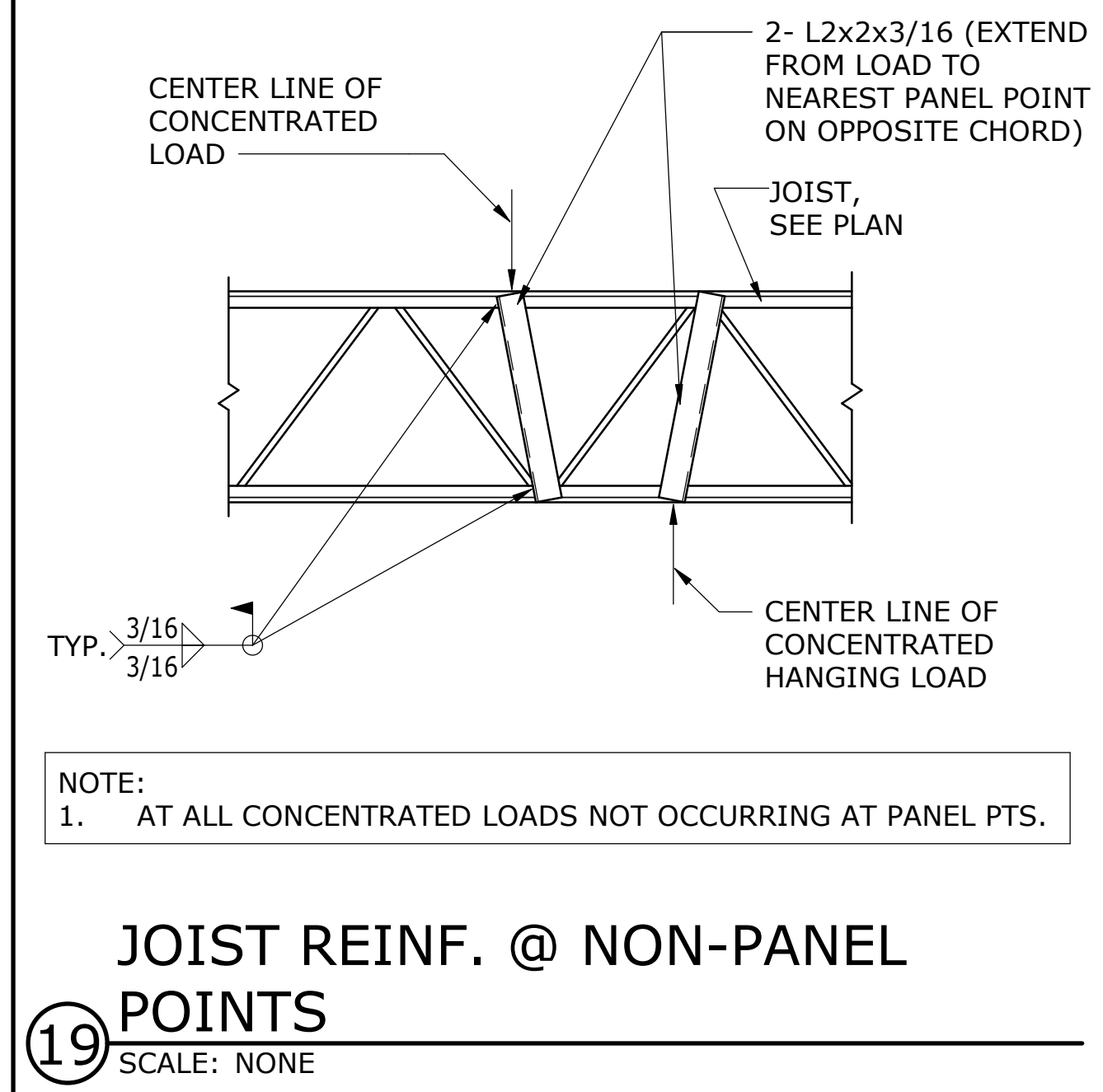
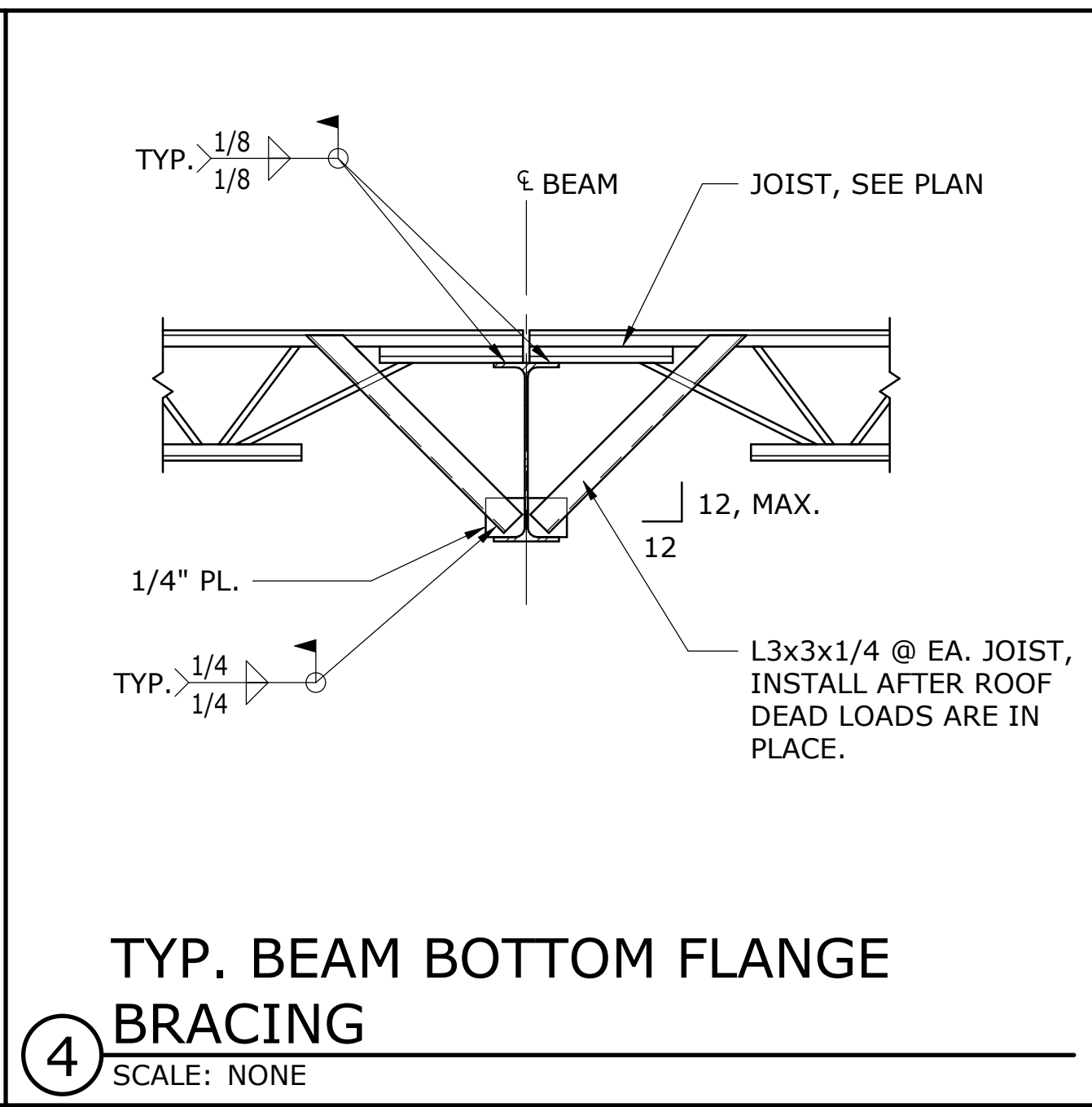
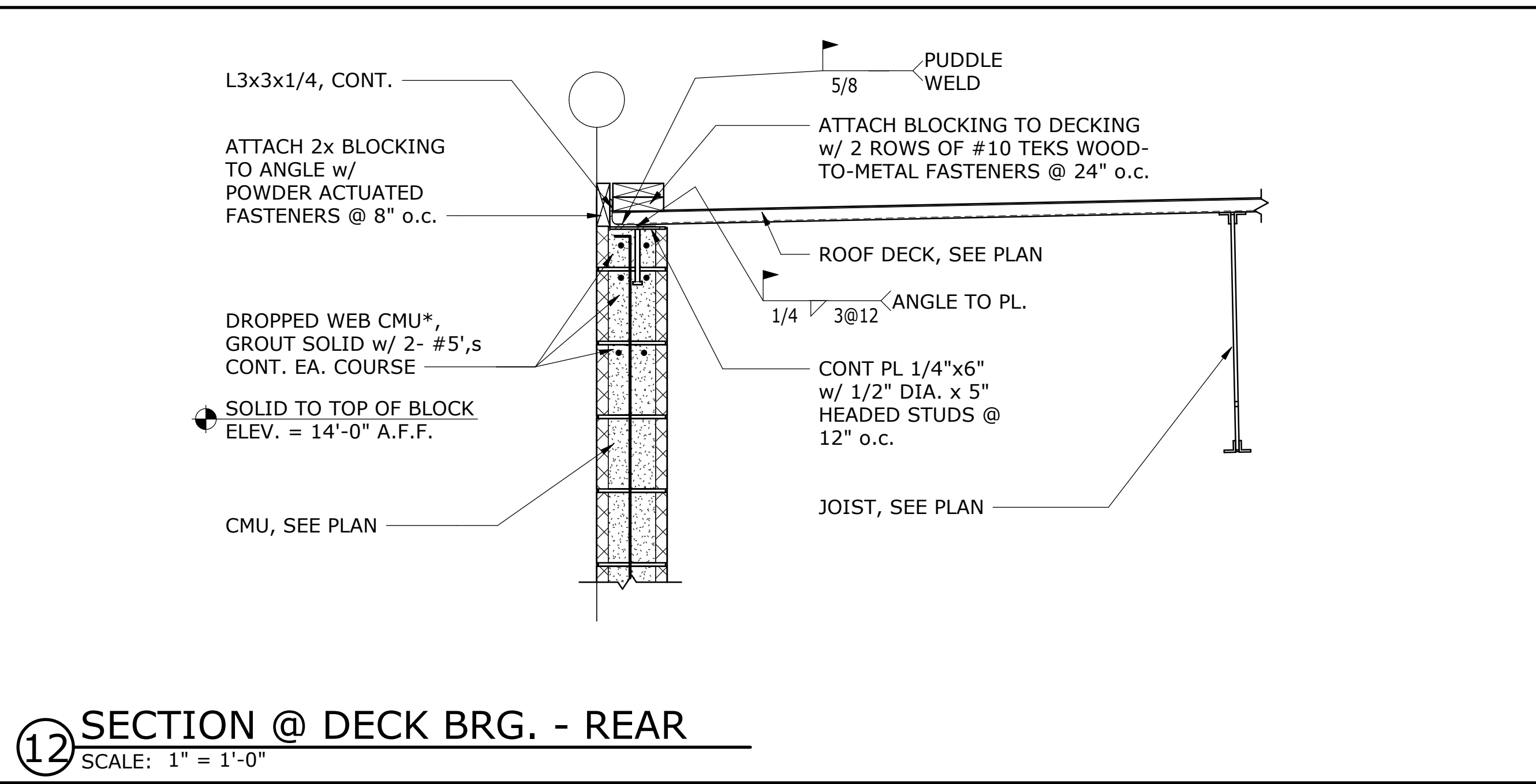
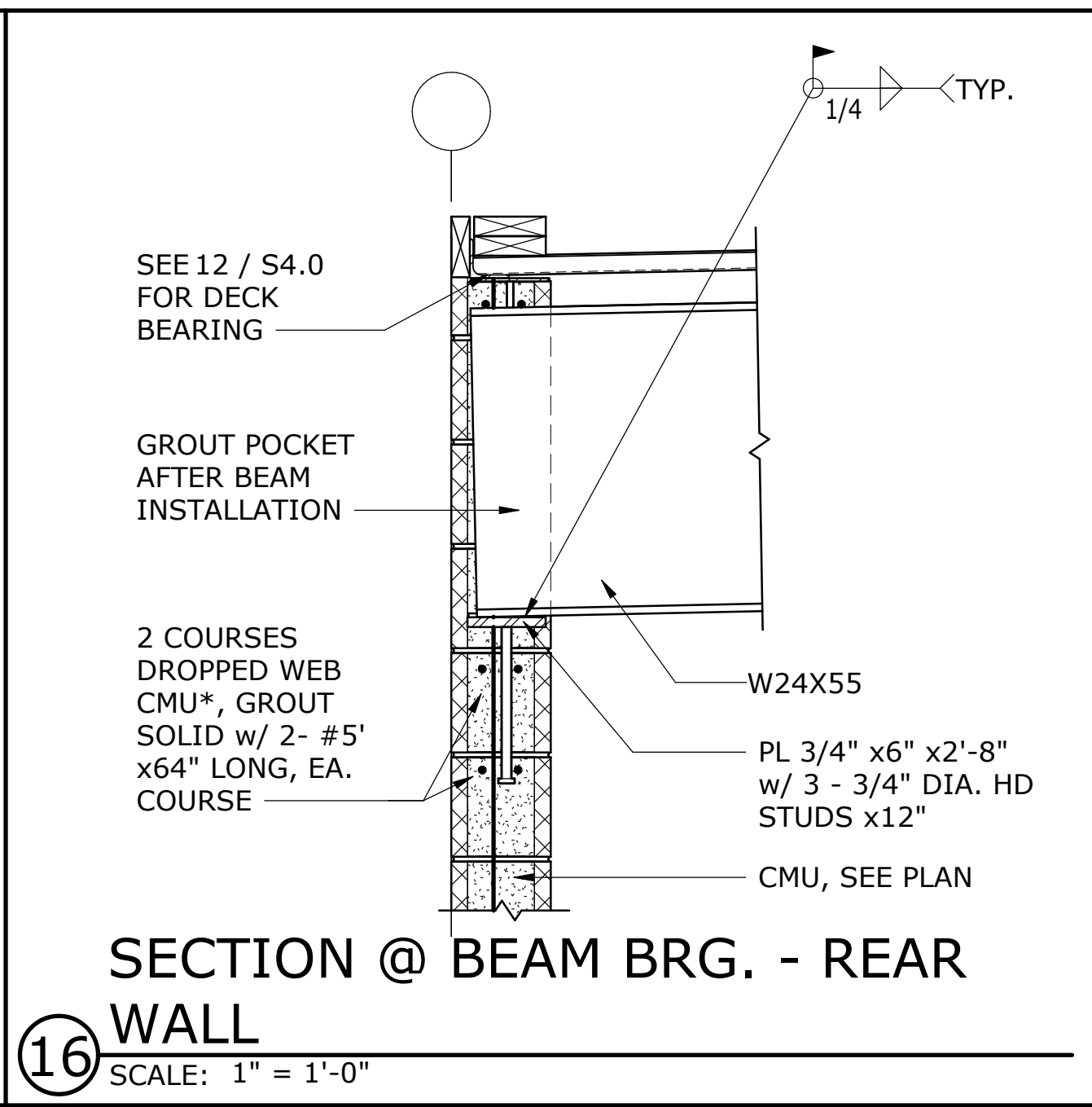
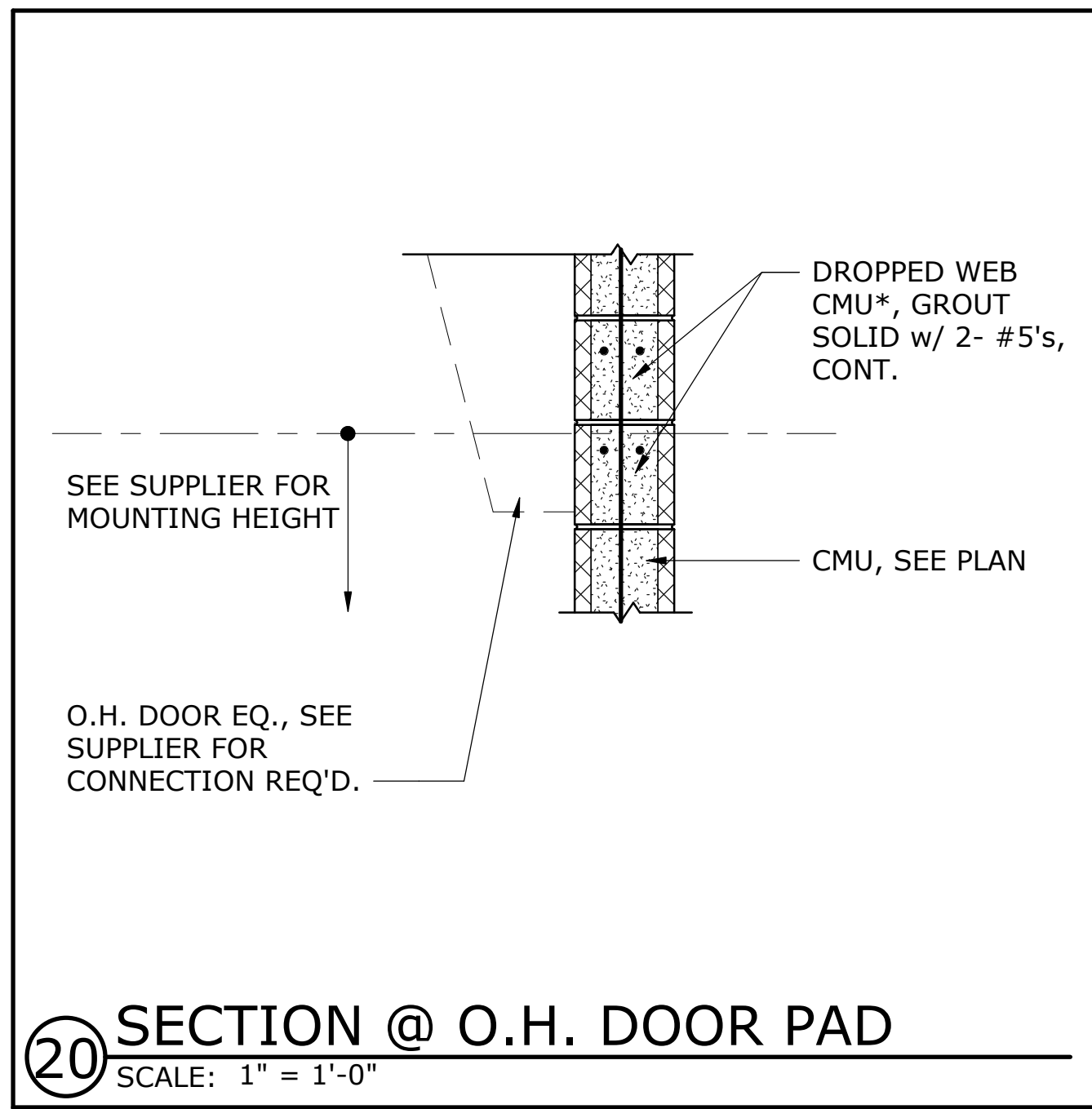
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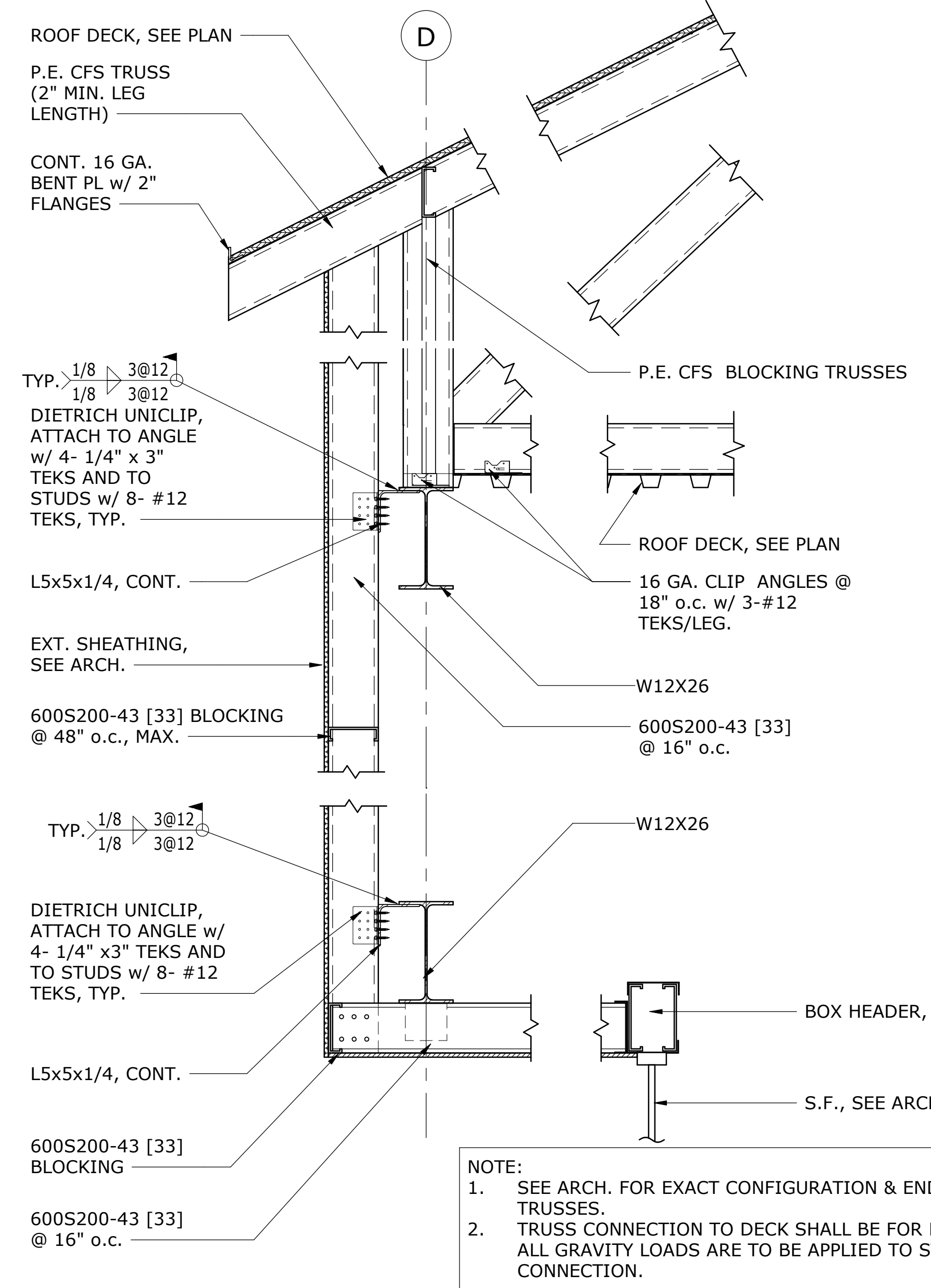
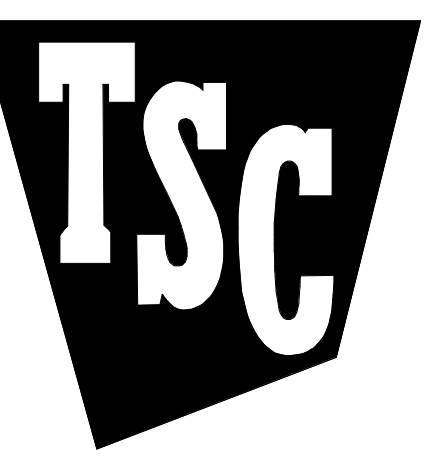
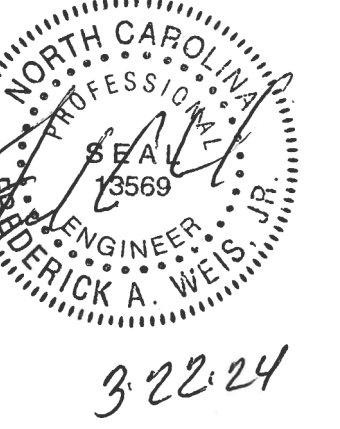
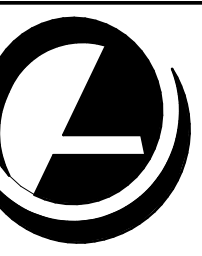
Revisions: Δ

Revisions: Δ

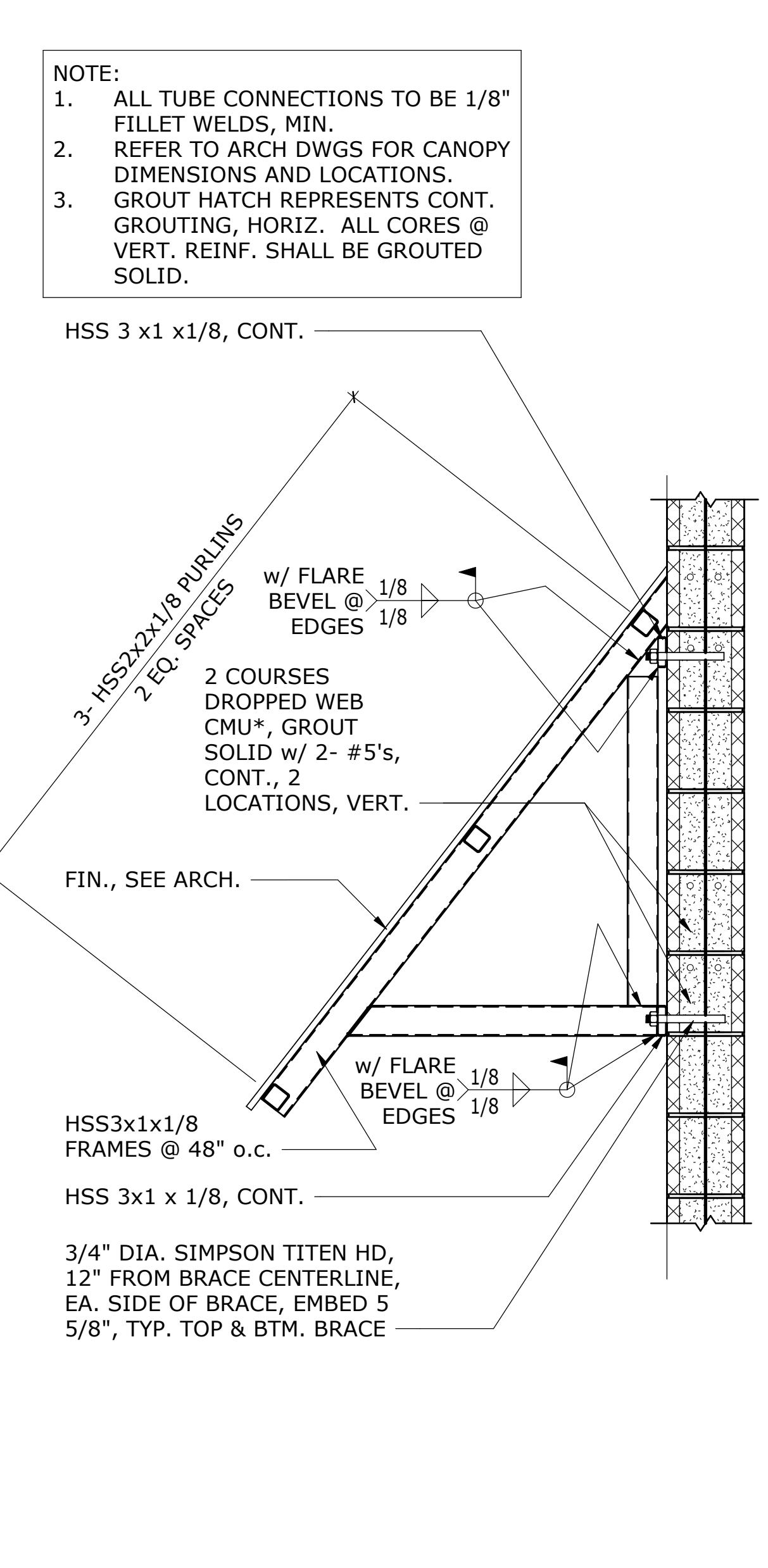
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Sheet Number: S4.0

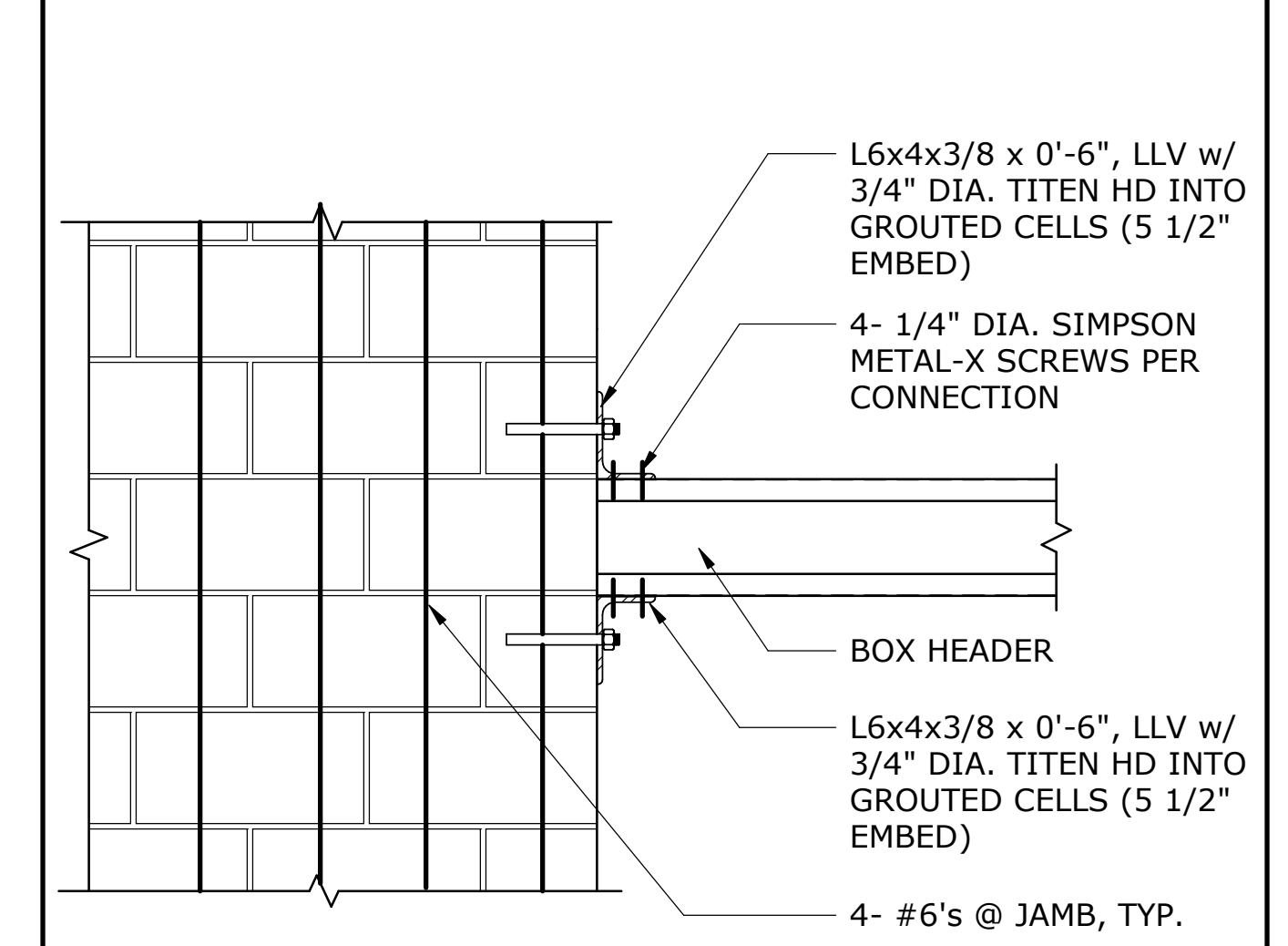
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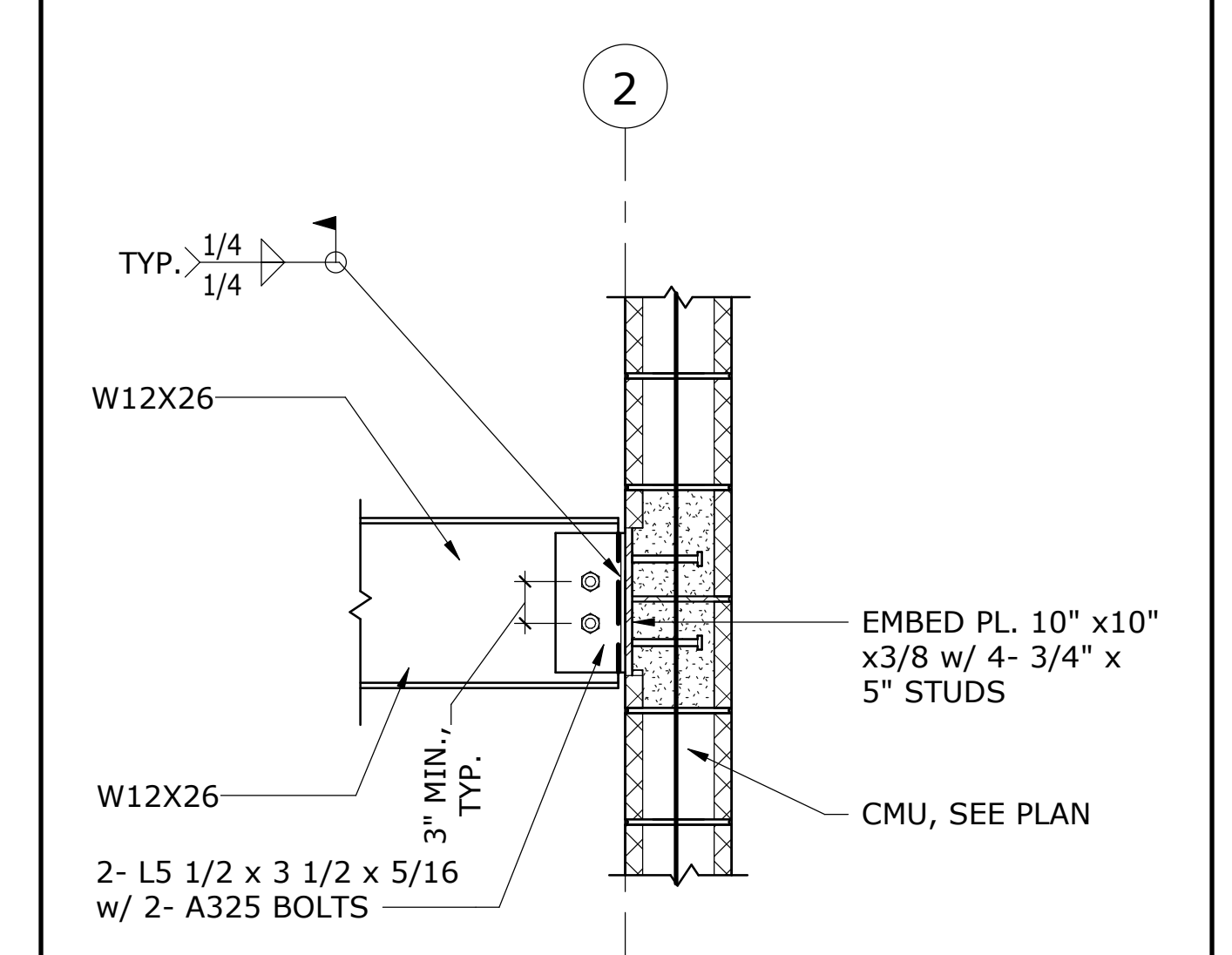
15 SECTION @ FRONT ENTRY SCALE: 1" = 1'-0"



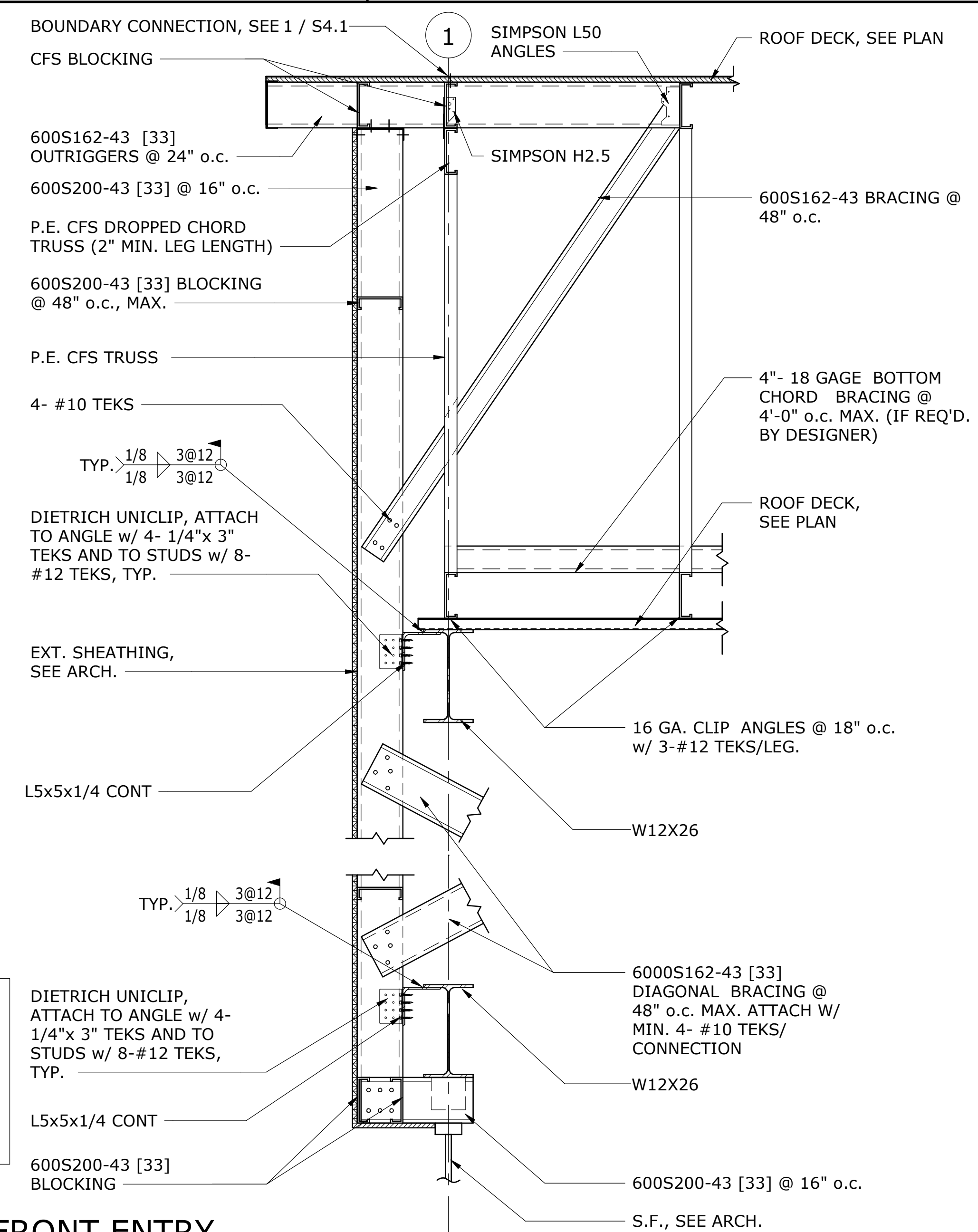
7 SECTION @ AWNING FRAME SCALE: 1" = 1'-0"



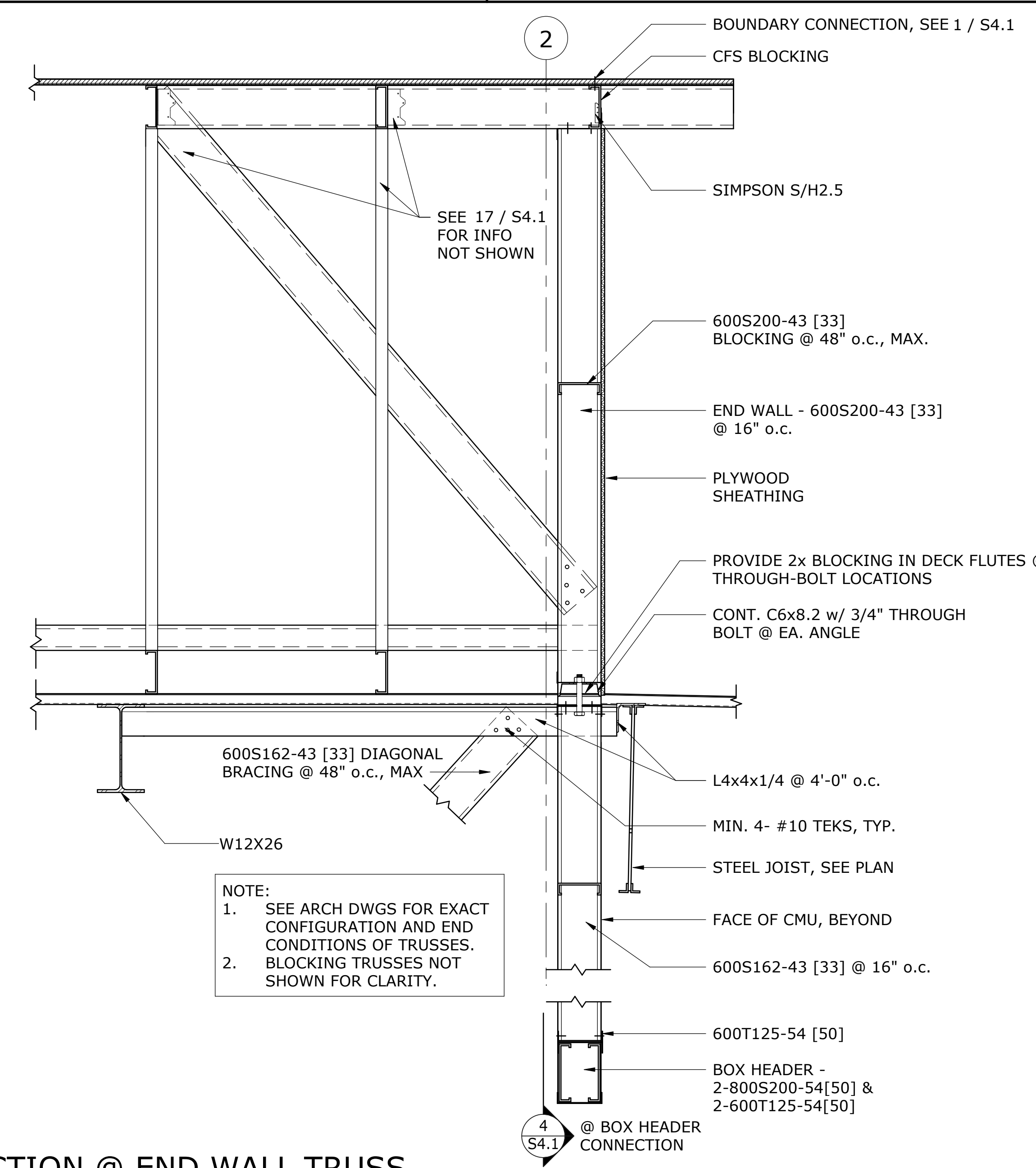
4 SECTION @ BOX HEADER - INTERIOR SCALE: 1" = 1'-0"



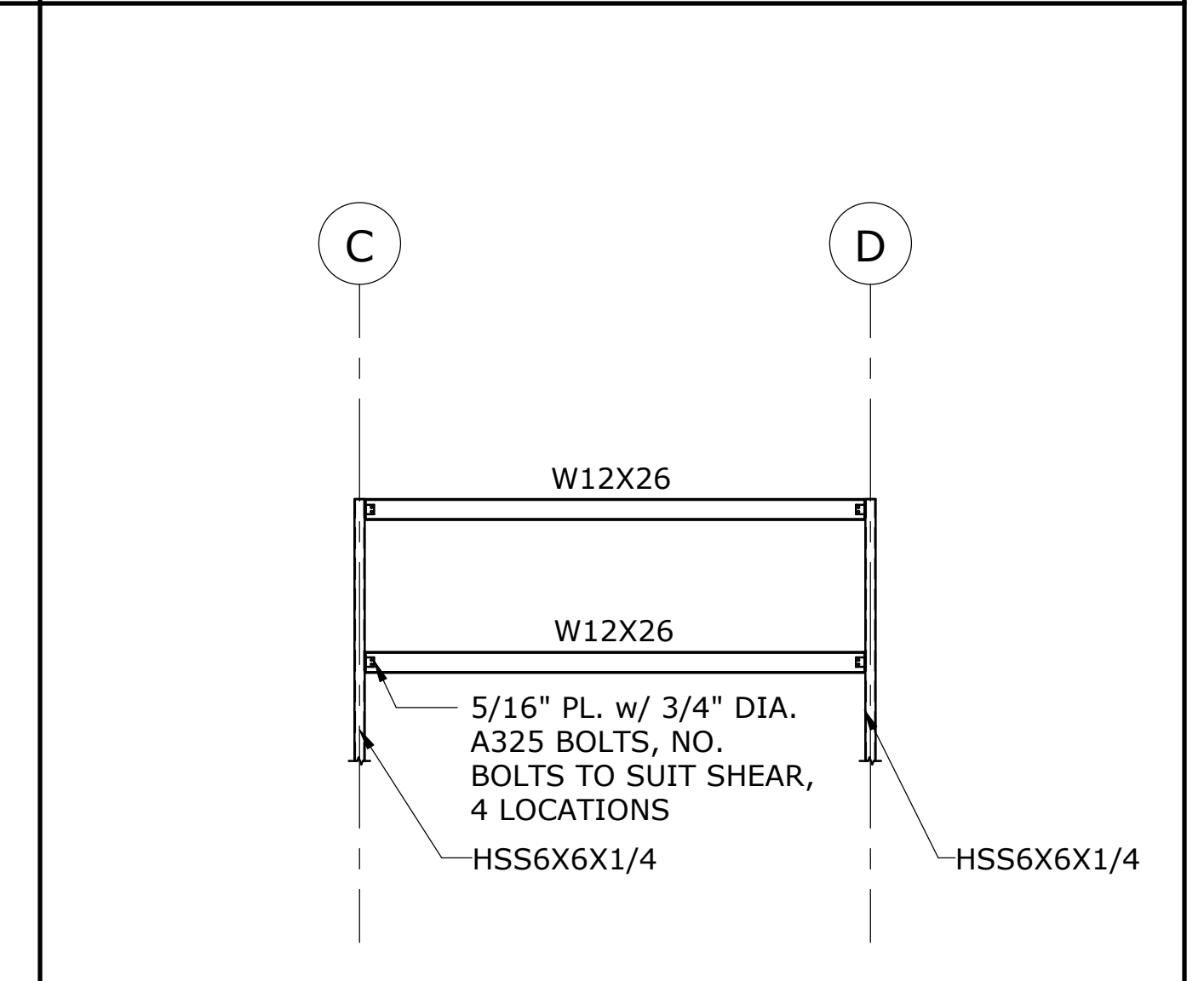
3 SECTION @ BEAM BRG. SCALE: 1" = 1'-0"



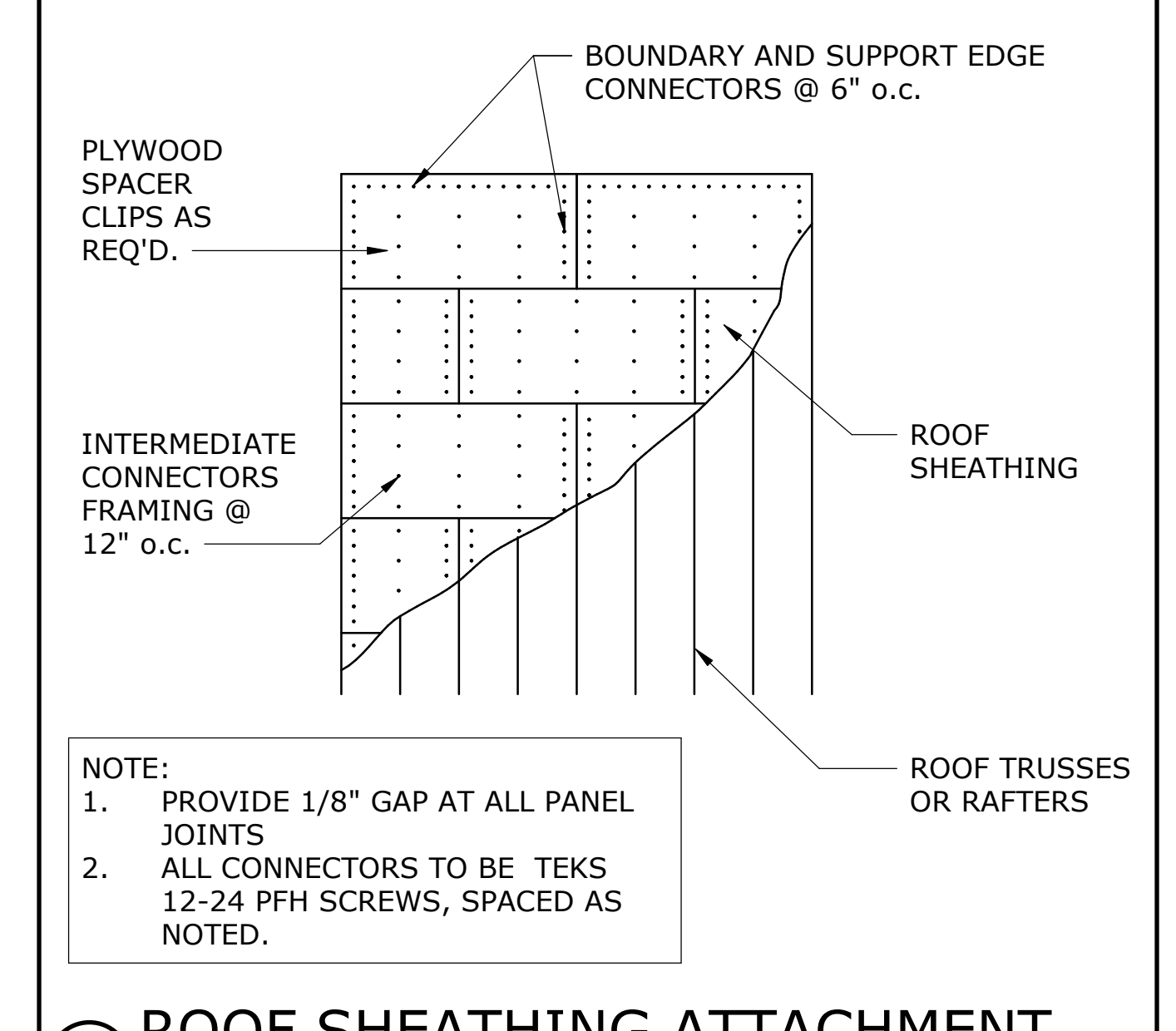
17 SECTION @ FRONT ENTRY SCALE: 1" = 1'-0"



9 SECTION @ END WALL TRUSS SCALE: 1" = 1'-0"



2 ELEVATION @ ENTRY BEAMS SCALE: 1/8" = 1'-0"



1 ROOF SHEATHING ATTACHMENT SCALE: NONE

NOTE: 1. ALL TUBE CONNECTIONS TO BE 1/8" FILLET WELDS, MIN. REFER TO ARCH DWGS FOR CANOPY DIMENSIONS AND LOCATIONS. GROUT HATCH REPRESENTS CONT. GROUTING, HORIZ. ALL CORES @ VERT. REINF. SHALL BE GROUTED SOLID.

NOTE: 1. SEE ARCH. FOR EXACT CONFIGURATION & END CONDITION OF TRUSSES. 2. TRUSS CONNECTION TO DECK SHALL BE FOR LATERAL FORCES ONLY. ALL GRAVITY LOADS ARE TO BE APPLIED TO STEEL BEAM CONNECTION.

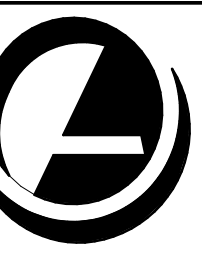
NOTE: 1. SEE ARCH DWGS FOR EXACT CONFIGURATION AND END CONDITIONS OF TRUSSES. BLOCKING TRUSSES NOT SHOWN FOR CLARITY.

NOTE: 1. SEE ARCH. FOR EXACT CONFIGURATION AND END CONDITION OF TRUSSES. BLOCKING TRUSSES NOT SHOWN FOR CLARITY.

NOTE: 1. PROVIDE 1/8" GAP AT ALL PANEL JOINTS 2. ALL CONNECTORS TO BE TEKS 12-24 PFH SCREWS, SPACED AS NOTED.

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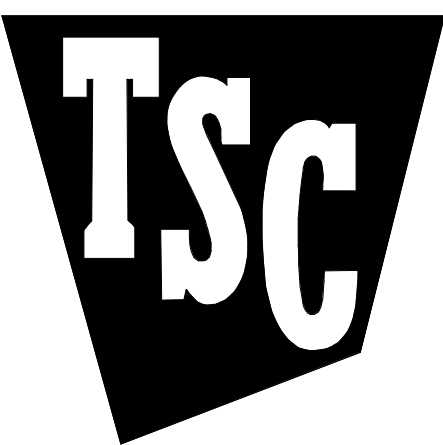
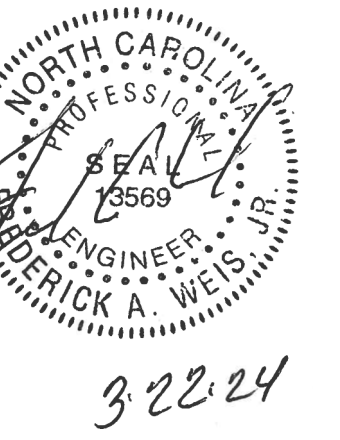
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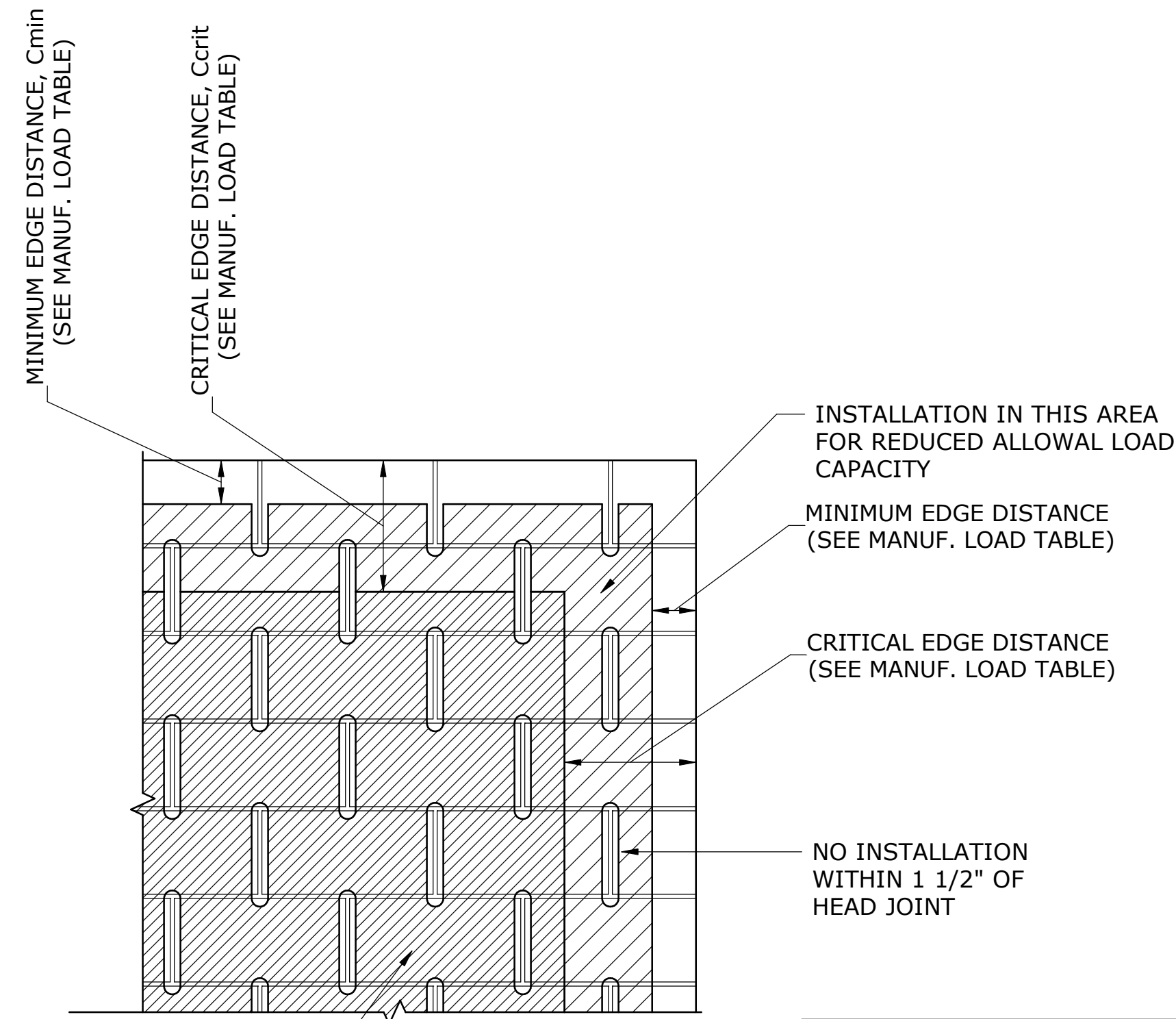
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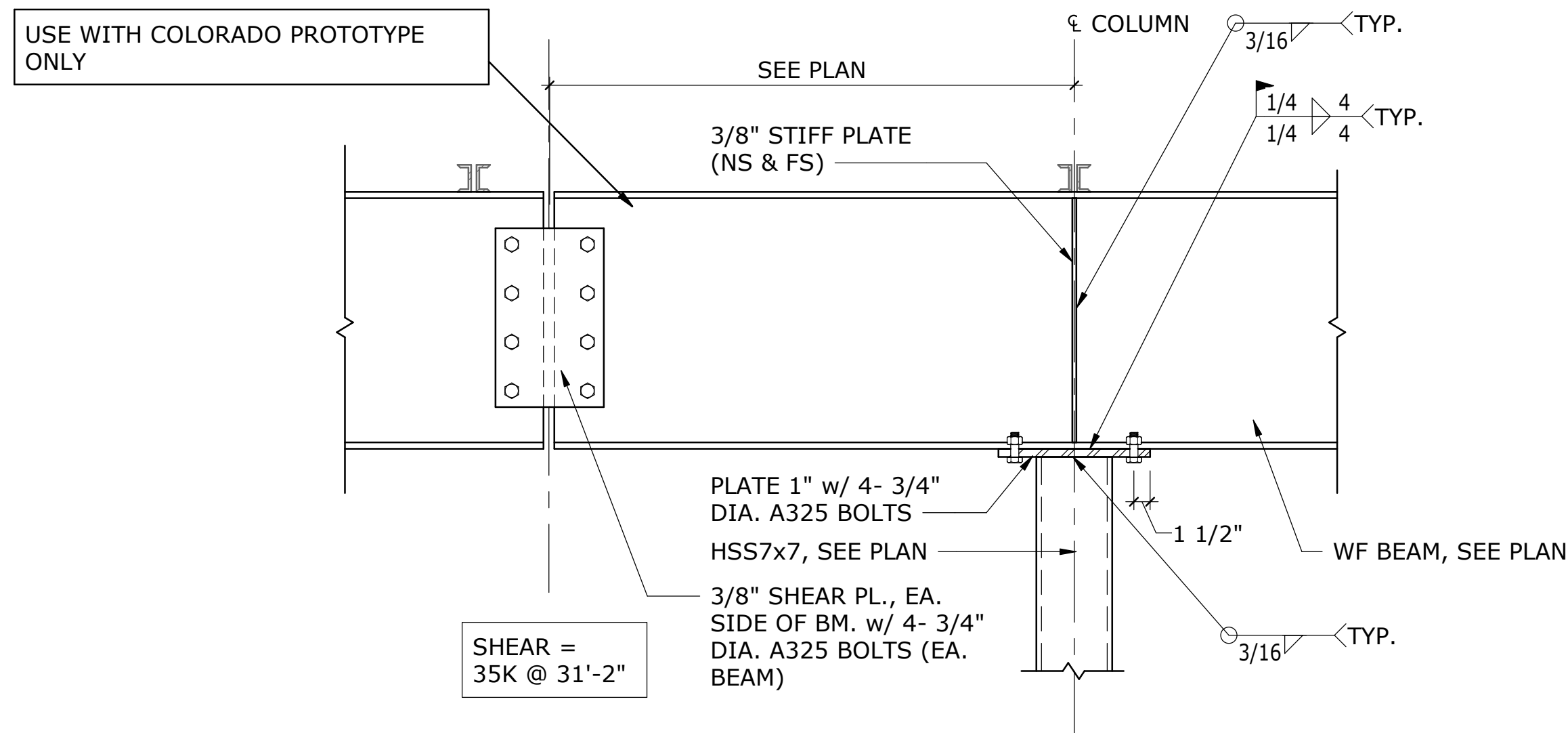
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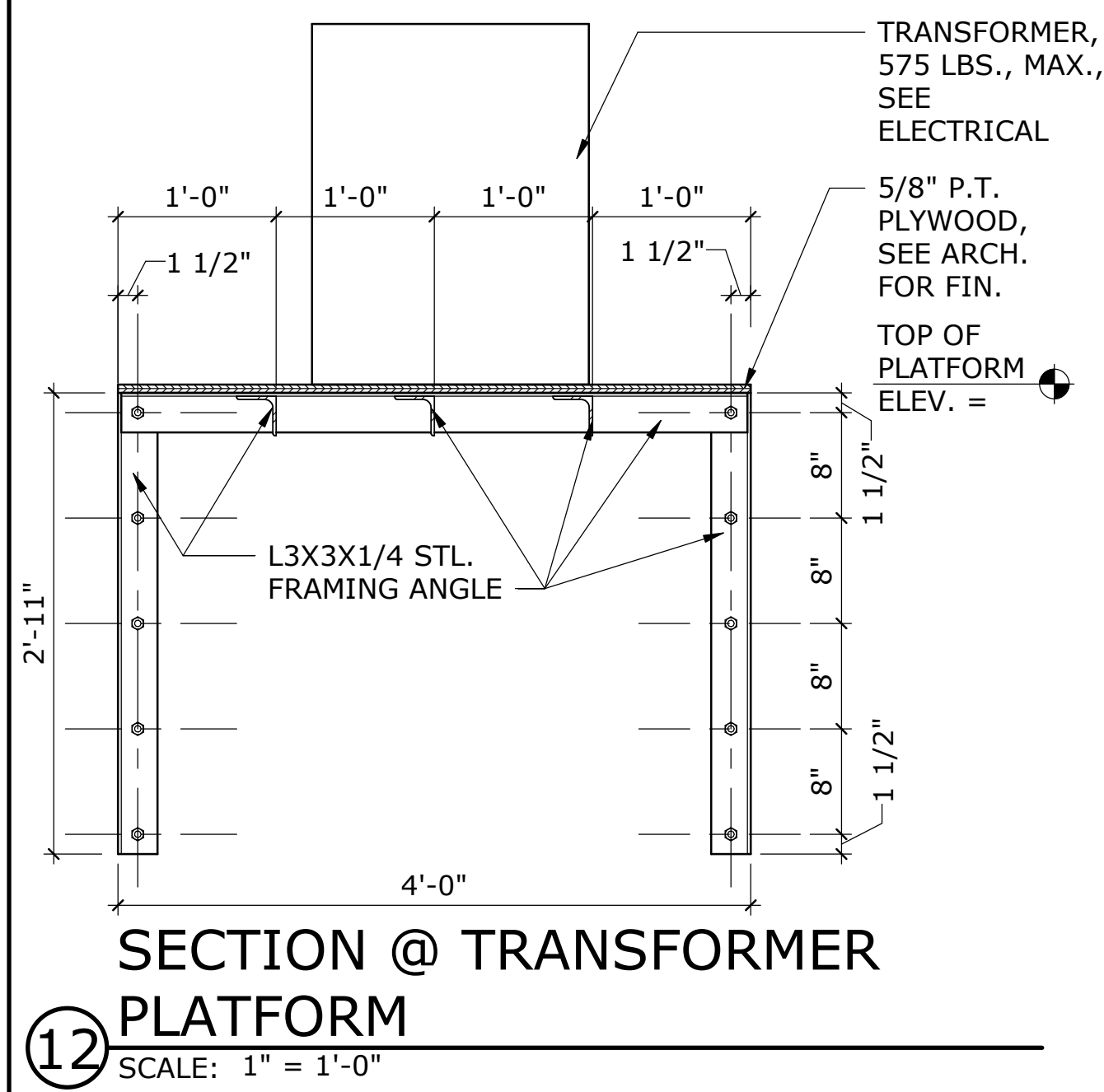


NOTE:
1. SHADED AREA = PLACEMENT FOR FULL AND REDUCED ALLOWABLE LOAD CAPACITY IN GROUT-FILLED CMU
2. REFER TO MANUF. CAPACITY TABLES FOR VALUES.

19 SIMPSON TITEN HD ANCHOR PARAMETERS
SCALE: NONE



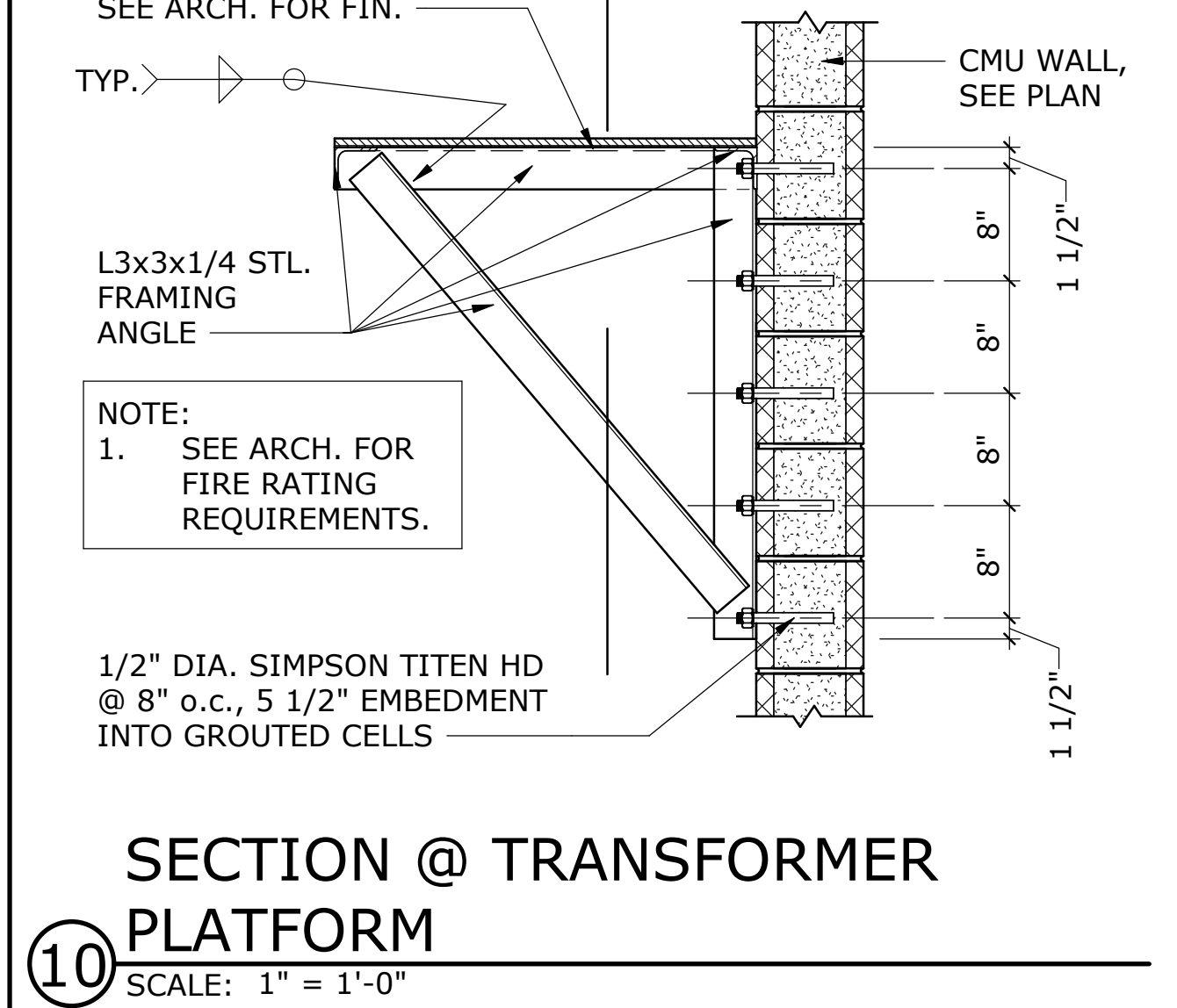
18 SECTION @ BEAM SPLICE
SCALE: 1" = 1'-0"



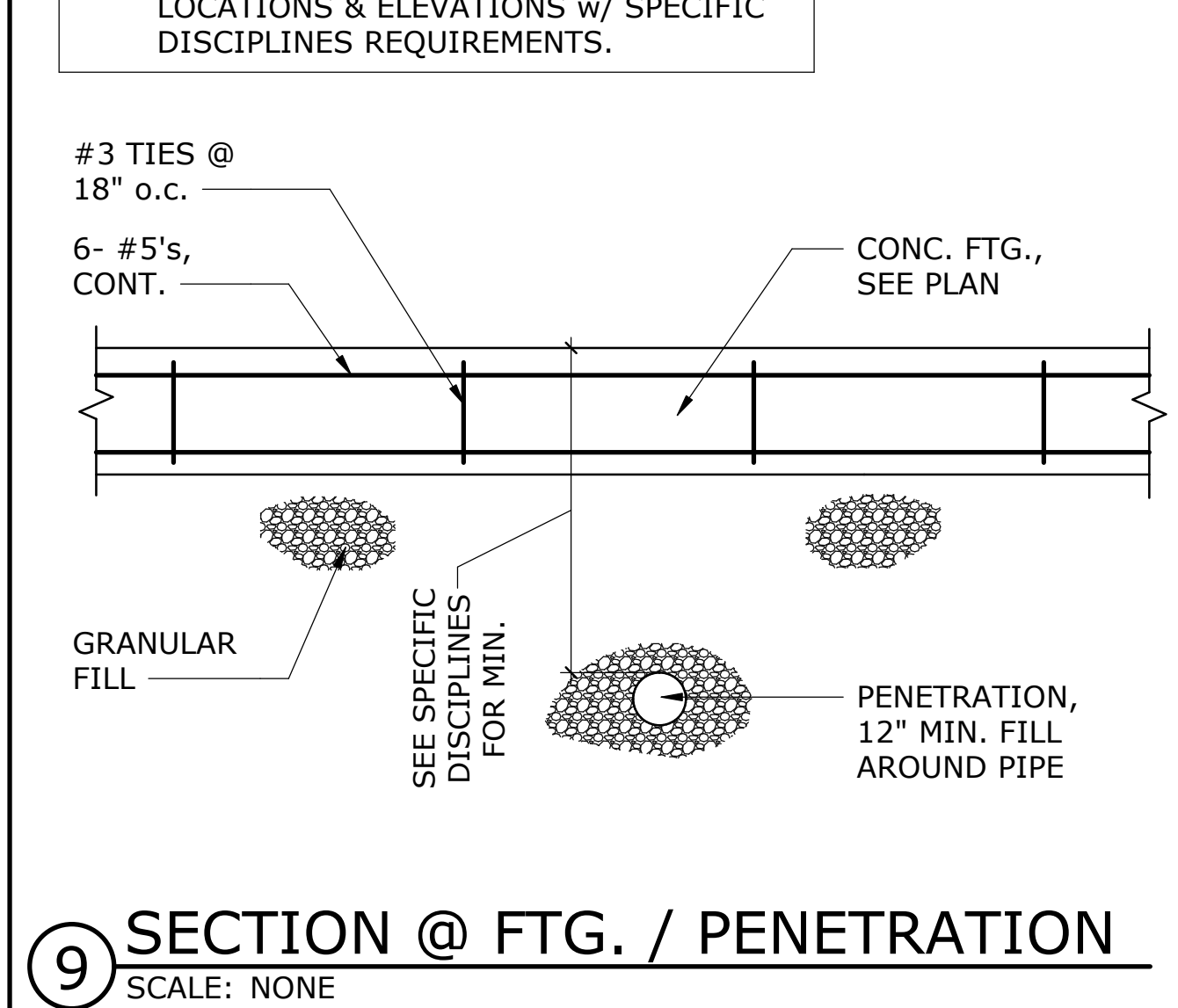
12 SECTION @ TRANSFORMER PLATFORM
SCALE: 1" = 1'-0"



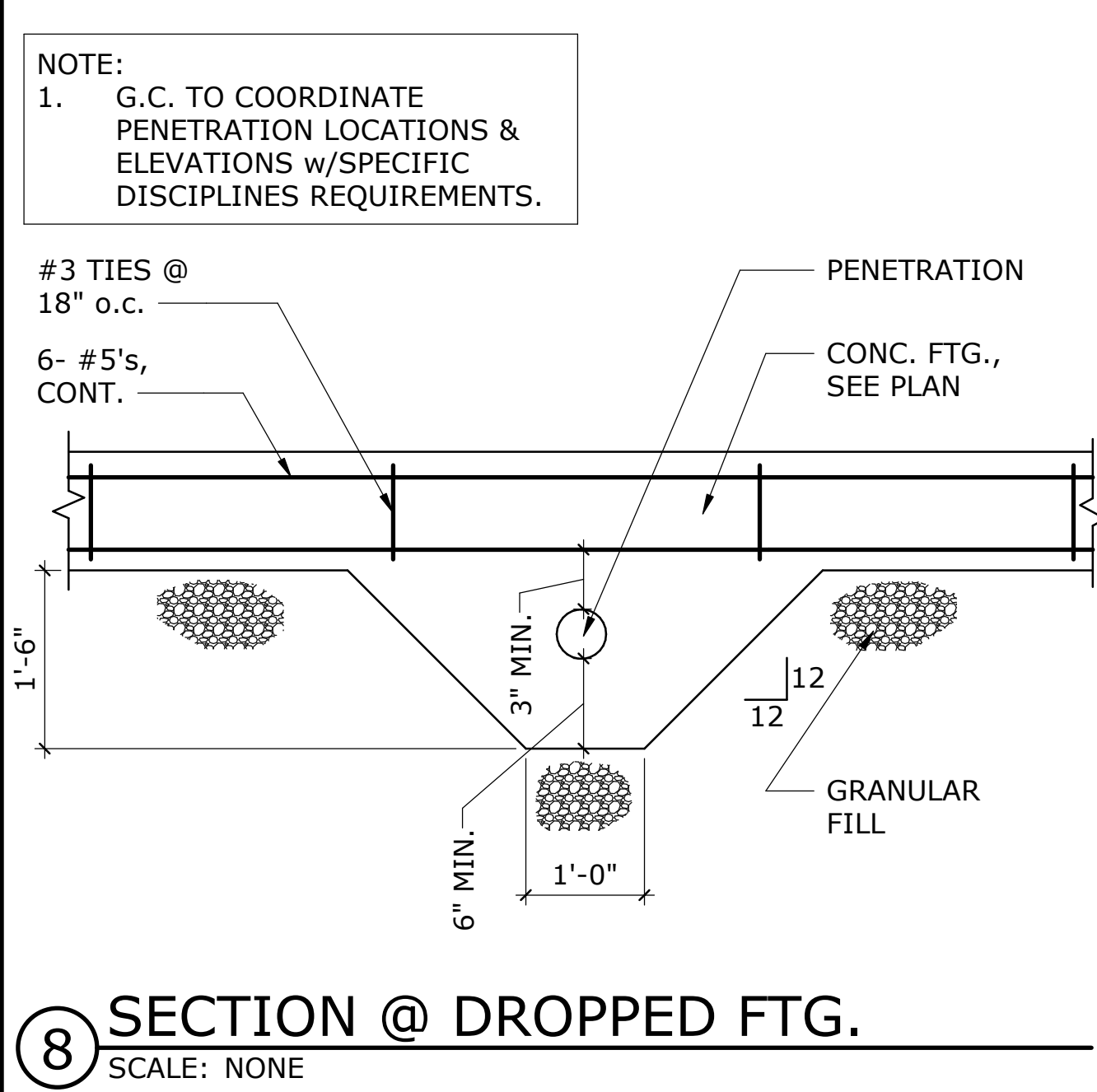
7 SECTION @ DROPPED FTG.
SCALE: NONE



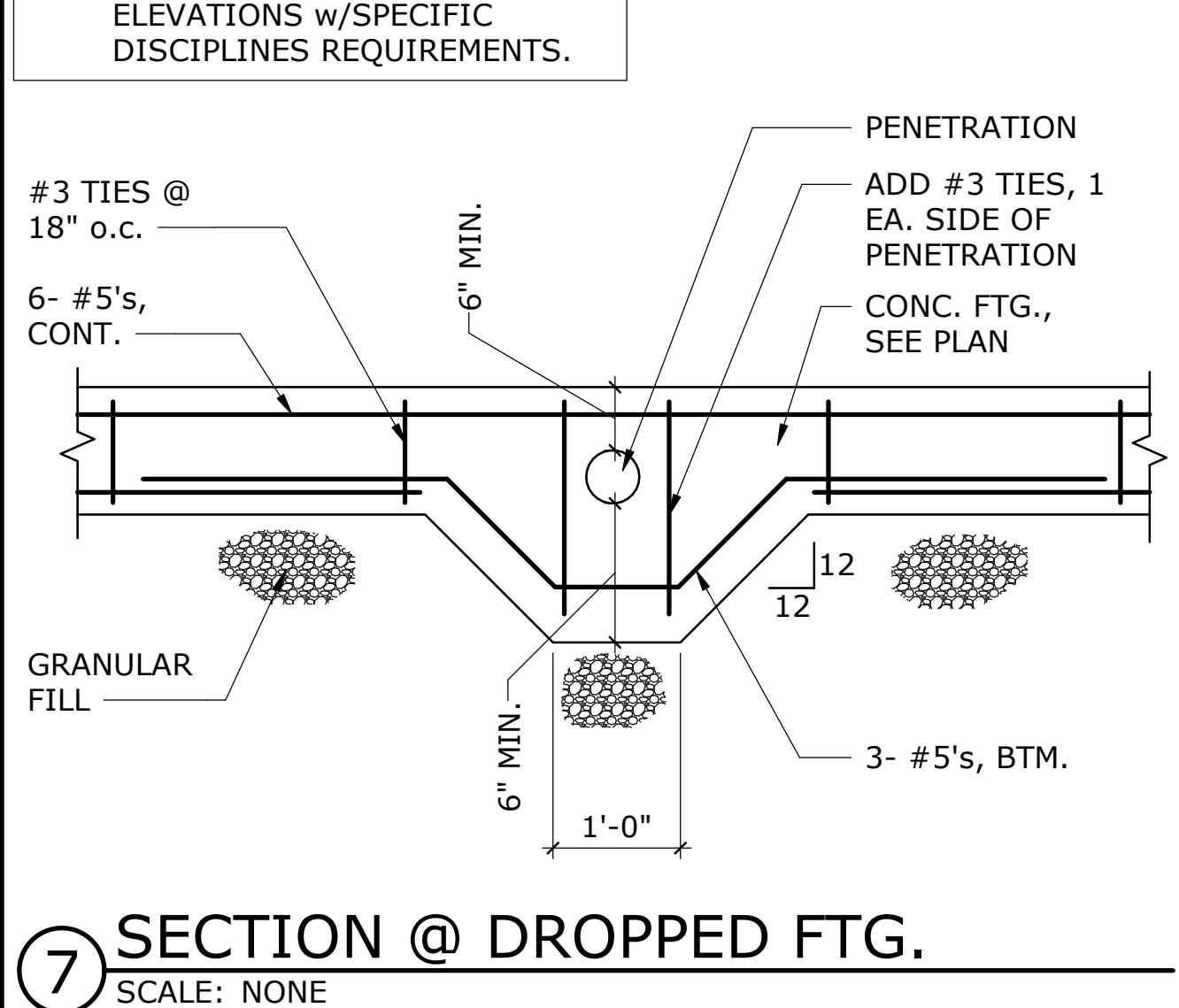
10 SECTION @ TRANSFORMER PLATFORM
SCALE: 1" = 1'-0"



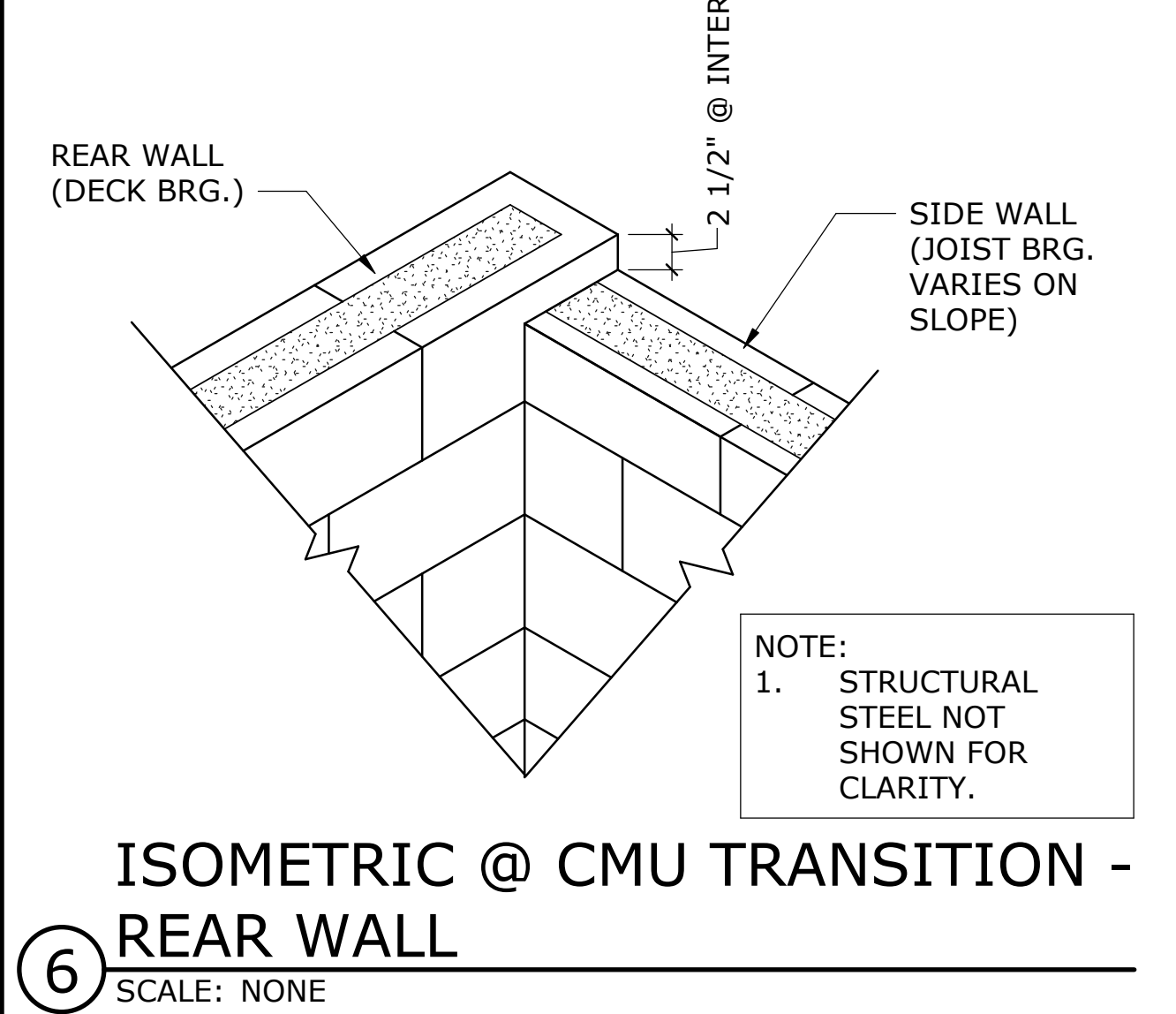
9 SECTION @ FTG. / PENETRATION
SCALE: NONE



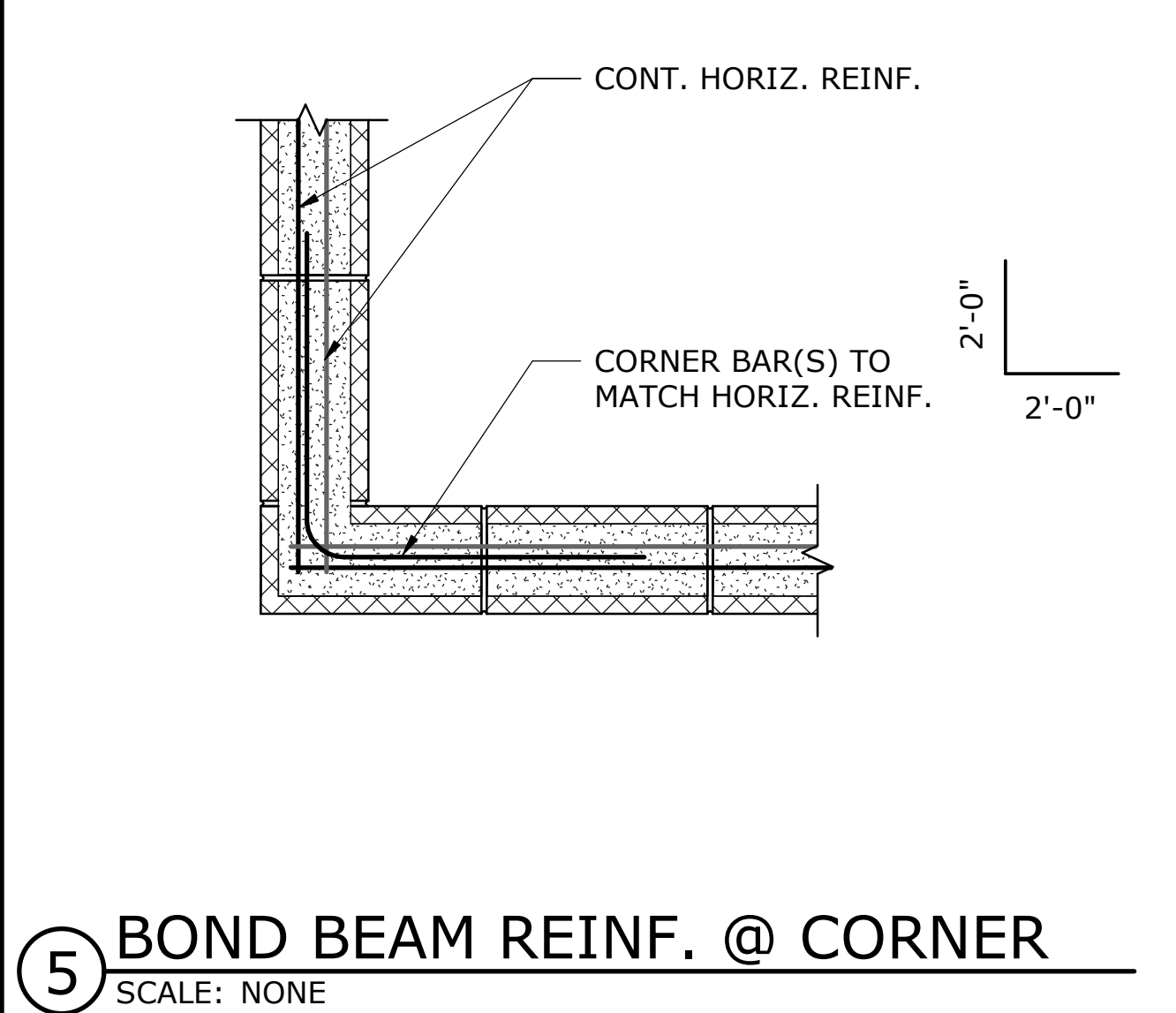
8 SECTION @ DROPPED FTG.
SCALE: NONE



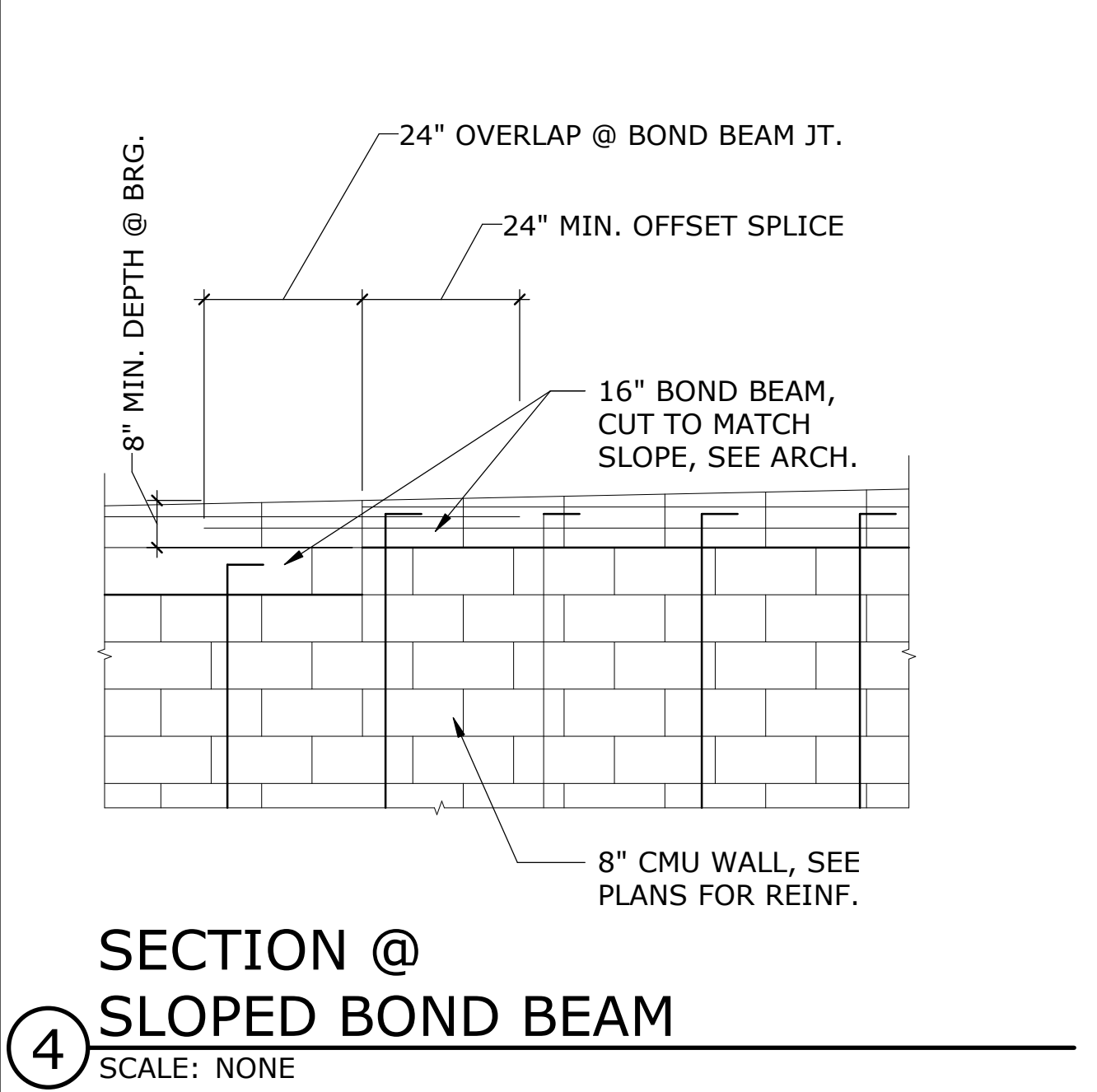
7 SECTION @ DROPPED FTG.
SCALE: NONE



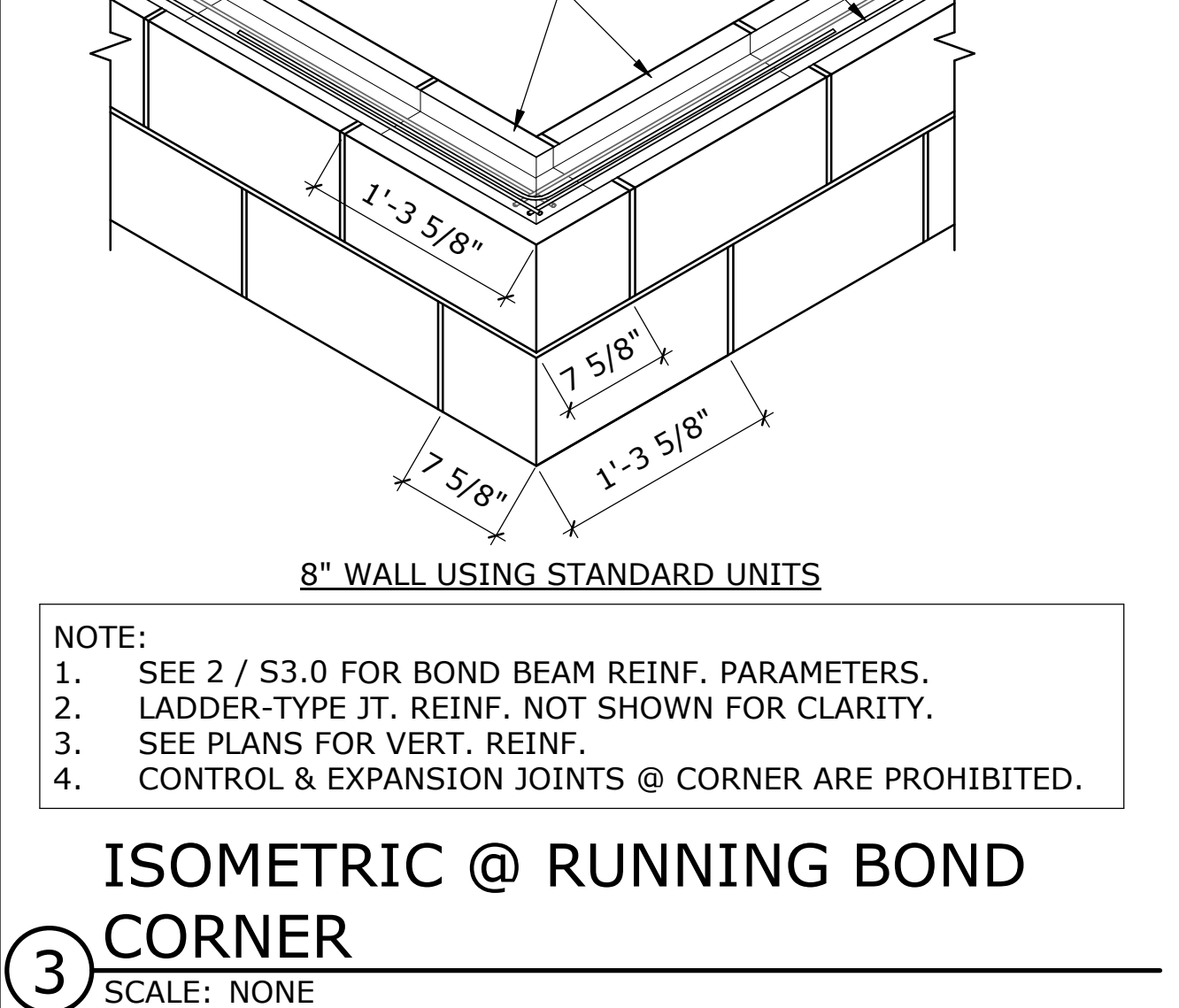
6 ISOMETRIC @ CMU TRANSITION - REAR WALL
SCALE: NONE



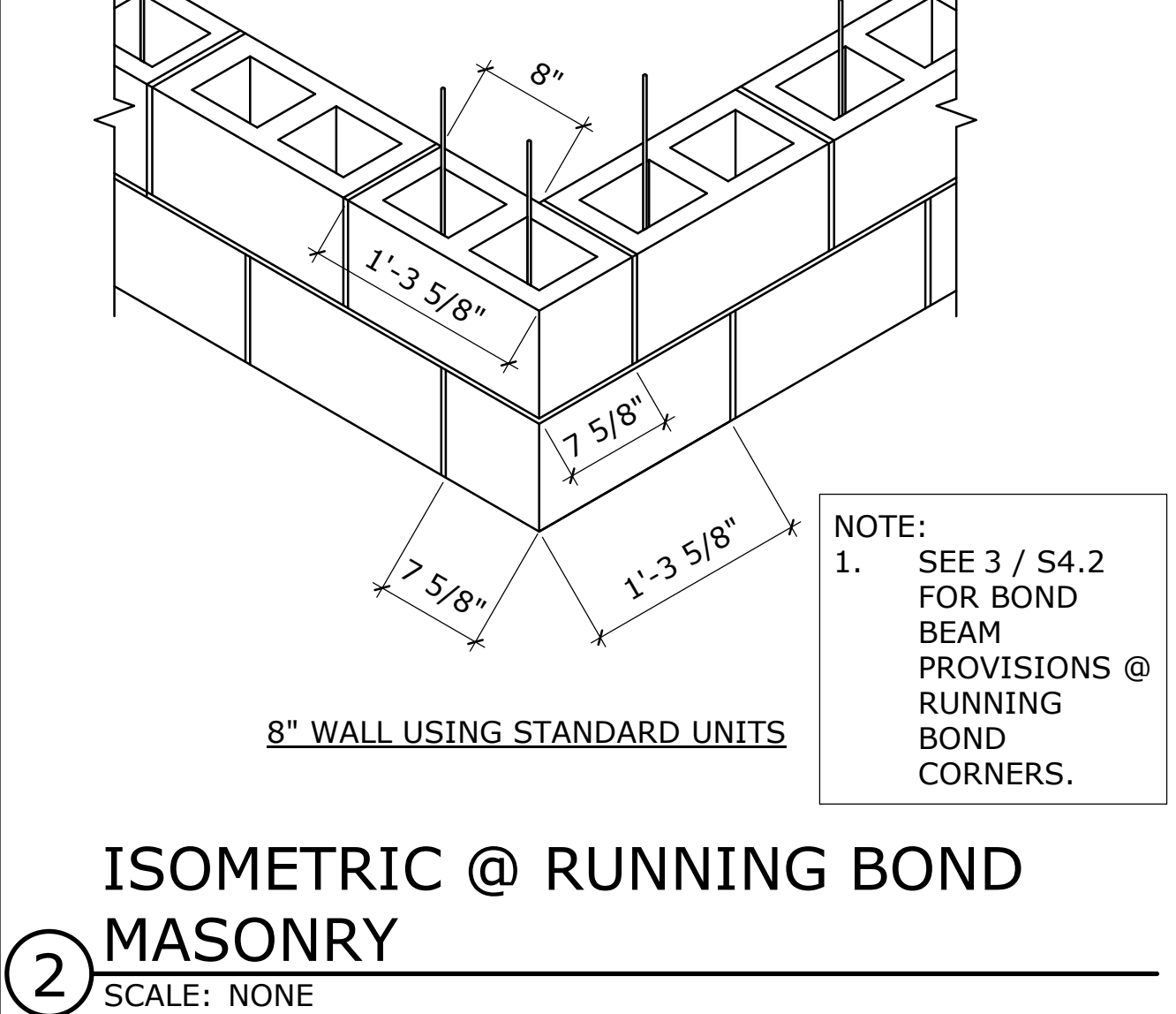
5 BOND BEAM REINF. @ CORNER
SCALE: NONE



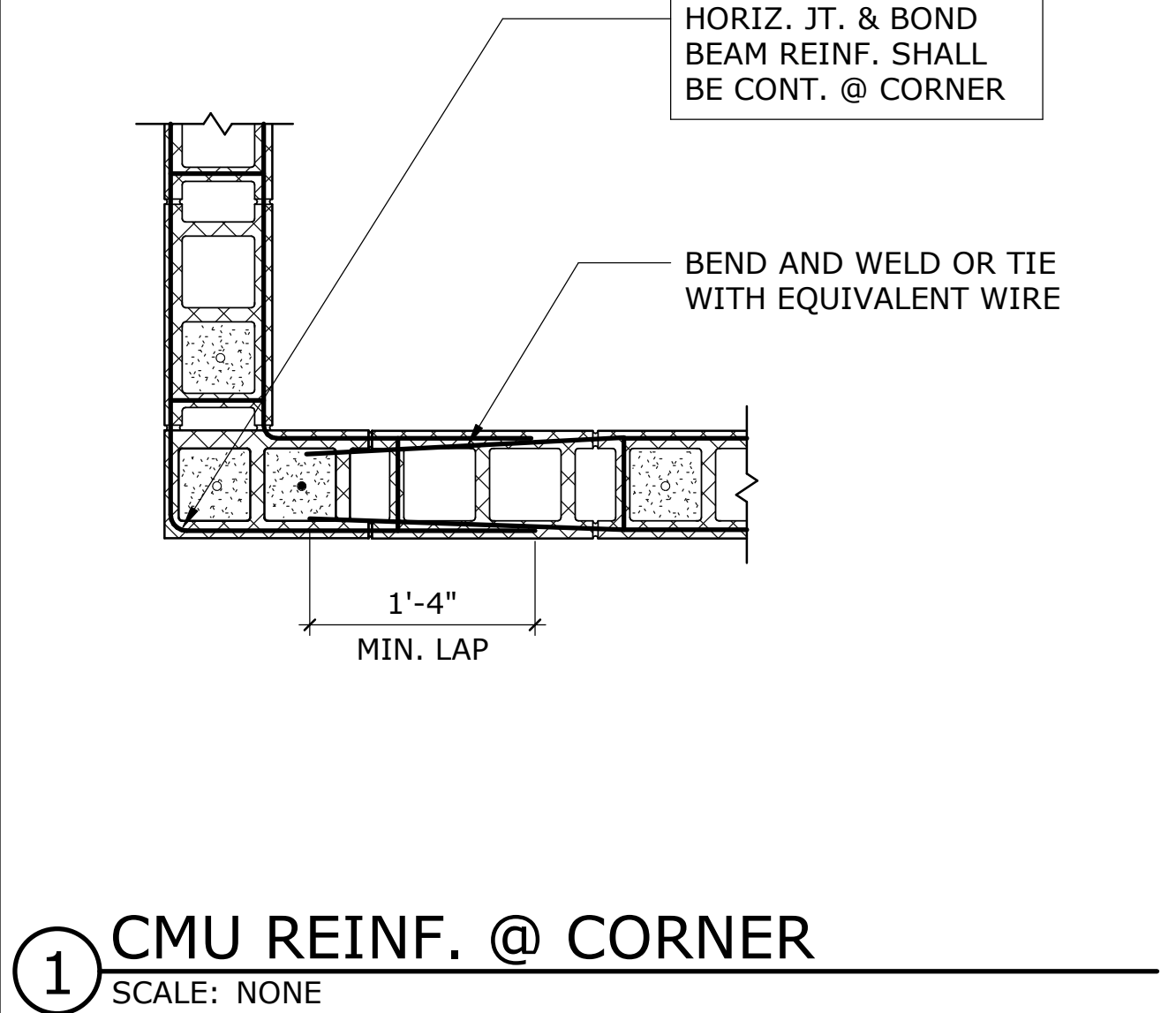
4 SECTION @ SLOPED BOND BEAM
SCALE: NONE



3 ISOMETRIC @ RUNNING BOND CORNER
SCALE: NONE



2 ISOMETRIC @ RUNNING BOND MASONRY
SCALE: NONE



1 CMU REINF. @ CORNER
SCALE: NONE

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Job Number: 2360

Date: 03.22.2024

Revisions: Δ

Revisions: Δ

Revisions: Δ

DETAILS

Sheet Number: **S4.2**

WE-??



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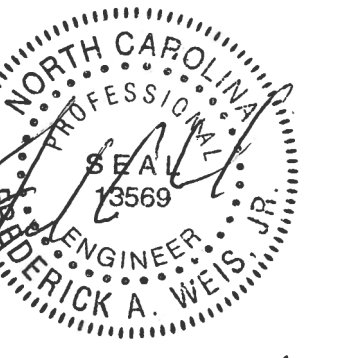
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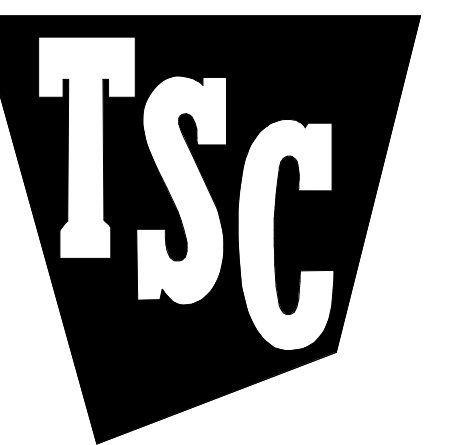
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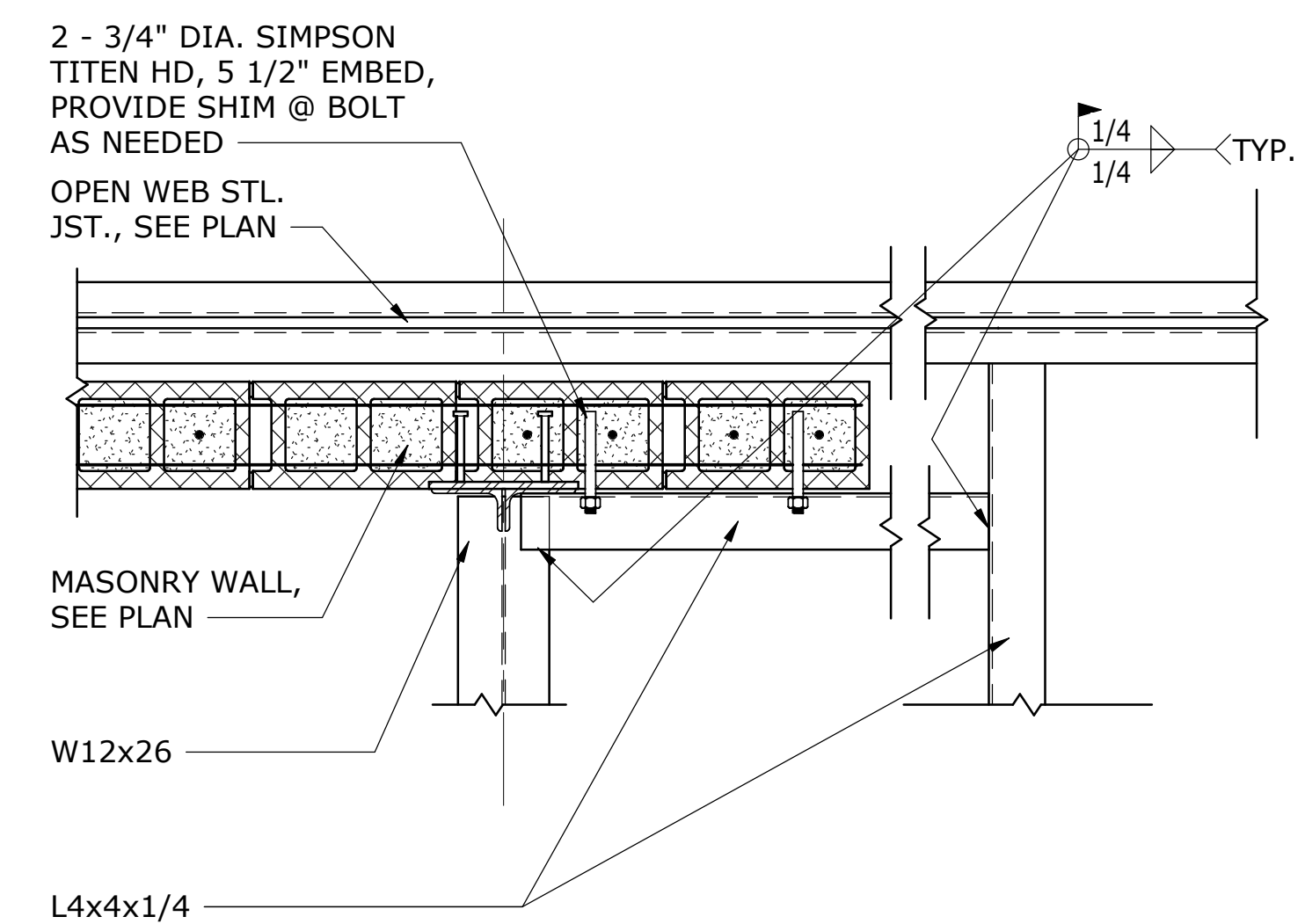


3.22.24



TRACTOR SUPPLY COMPANY

LILLINGTON
NORTH CAROLINA



PLAN VIEW - VEST DECK
CONNECTION

5 SCALE: 1" = 1'-0"

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Job Number: 2360

Date: 03.22.2024

Revisions:

Revisions:

Revisions:

DETAILS

Sheet Number: **S4.3**

WE-??

STRUCTURAL GENERAL NOTES

DESIGN AND CODE INFORMATION

- ALL CONSTRUCTION SHALL CONFORM TO THE NORTH CAROLINA BUILDING CODE, 2018 EDITION (BASED ON THE INTERNATIONAL BUILDING CODE, 2015 EDITION).
- VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH CONFLICT WITH OTHER PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DRAWINGS ARE NOT INTENDED FOR BUILDING LAYOUT.
- 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. SUBMIT FOUR COPIES OF REVIEWED DRAWINGS FOR ENGINEER'S REVIEW. ONLY THREE SETS OF MARKED UP SHOP DRAWINGS SHALL BE RETURNED BY THE DESIGNER. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
- THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED. CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, THE STEEL DECK ATTACHED TO THE STEEL FRAMING, AND THE CONCRETE FLOORS PLACED AND ATTAINS 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.
- DO NOT SCALE STRUCTURAL DRAWINGS, AND FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- RISK CATEGORY: II
- LIVE LOADS:

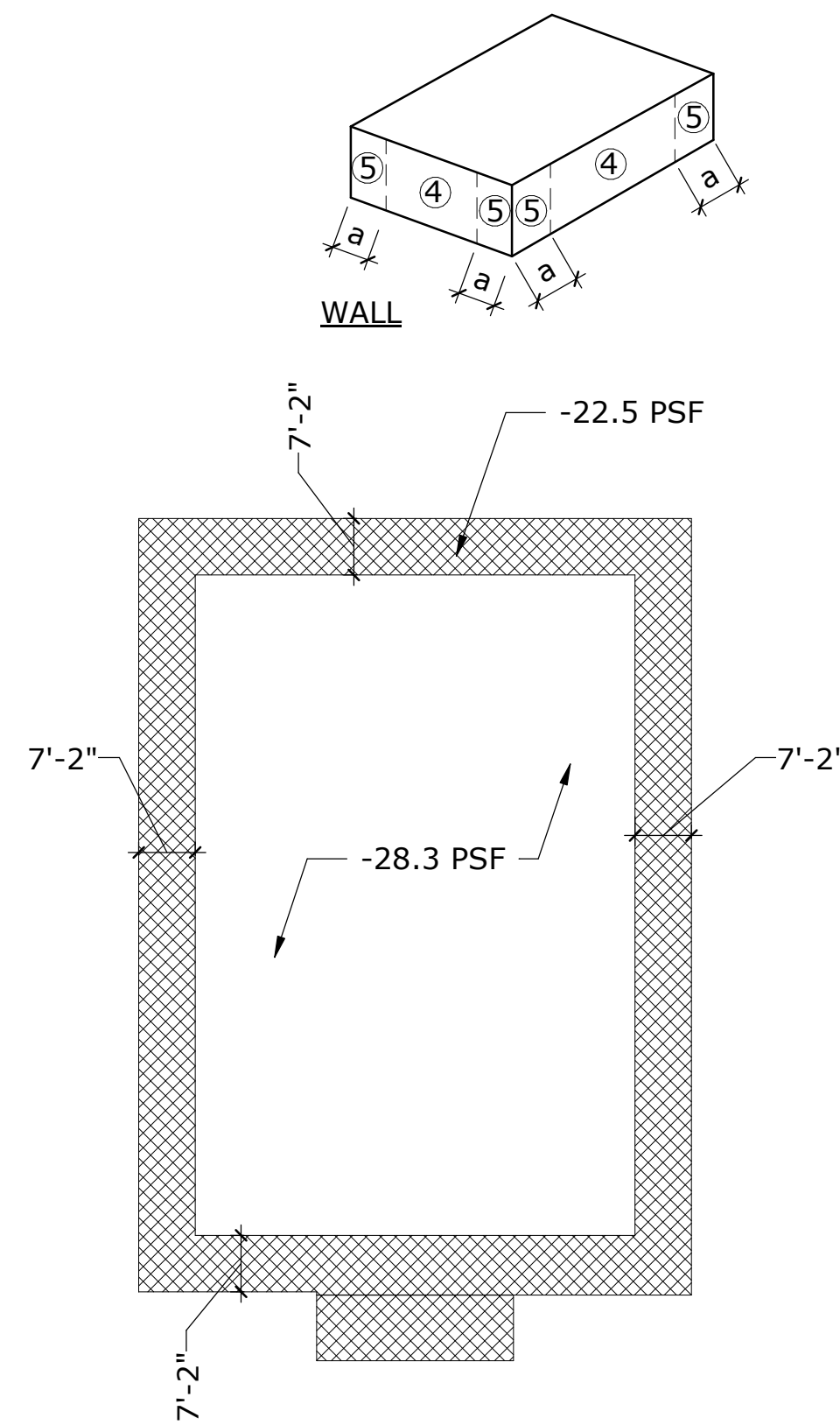
A. FLOORS:	100 PSF
B. STOCKROOM FLOOR:	250 PSF
C. ROOFS:	20 PSF
- ROOF LOADS:

A. GROUND SNOW LOAD:	15 PSF
B. SNOW EXPOSURE Ce:	1.0
C. SNOW IMPORTANCE I:	1.0
D. THERMAL FACTOR:	1.0
E. FLAT ROOF SNOW LOAD:	17 PSF
- WIND LOADS:

A. BASIC WIND SPEED:	117 MPH (3-SEC GUST)
B. IMPORTANCE FACTOR:	I=1.0
C. OCCUPANCY CATEGORY:	II
D. EXPOSURE CATEGORY:	C
E. BASE SHEAR:	
a. MAIN BUILDING:	Vx = 99.6 K Vy = 83.6 K

COMPONENTS & CLADDING (WALLS)				
AREA	GCp +/- GCpi			
	10 SF	100 SF	200 SF	500 SF
NEGATIVE ZONE 4	-1.17	-1.01	-0.96	-0.90
NEGATIVE ZONE 5	-1.44	-1.12	-1.03	-0.90
POSITIVE ZONE 4 & 5	1.08	0.92	0.87	0.81

AREA	SURFACE PRESSURE (PSF)			
	10 SF	100 SF	200 SF	500 SF
NEGATIVE ZONE 4	-30.7	-26.5	-25.2	-23.6
NEGATIVE ZONE 5	-37.7	-29.4	-26.9	-23.6
POSITIVE ZONE 4 & 5	28.3	24.1	22.9	21.2



ROOF - NET WIND UPLIFT PRESSURES

BASIC WIND SPEED: 117 MPH (3-SECOND GUST)
EXPOSURE CATEGORY: C, Aeff > 100 SF
FOR DL OF ROOF, USE 10 PSF
POSITIVE WIND PRESSURE : 16 PSF

DESIGN AND CODE INFORMATION, CONT.

- SEISMIC DESIGN LOADS:
 - IMPORTANCE FACTOR: I = 1.0
 - RISK CATEGORY: II
 - MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 - Ss = 0.183
 - S1 = 0.086
 - SITE CLASS: D
 - DESIGN SPECTRAL RESPONSE ACCELERATIONS:
 - SDs = 0.195
 - SD1 = 0.138
 - DESIGN CATEGORY: C
 - BASIC SEISMIC FORCE RESISTING SYSTEM: MAIN BUILDING:
 - INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
 - DESIGN BASE SHEAR: 60.3 K
 - RESPONSE MODIFICATION FACTOR: R = 3.5
 - REDUNDANCY FACTOR: P = 1.0
 - RESPONSE COEFFICIENT Cs: 0.056

SPECIAL INSPECTIONS AND TESTING

- THE OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM THE ON SITE INSPECTIONS AND TESTING AS INDICATED ON SHEETS S5.2 & S5.3.

STRUCTURAL OBSERVATIONS

- THE CONTRACTOR/OWNER SHALL EMPLOY A LICENSED STRUCTURAL ENGINEER OR ARCHITECT TO PERFORM PERIODIC VISUAL OBSERVATIONS OF THE STRUCTURE DURING CONSTRUCTION FOR GENERAL CONFORMANCE TO THE DESIGN DRAWINGS.

FOUNDATION NOTES

- FOUNDATION DESIGN IS BASED ON A REPORT BY ECS SOUTHEAST, LLP, DATED SEPTEMBER 1, 2023 (REPORT NO. 33:6534).
- THE CONTINUOUS AND ISOLATED FOOTINGS ARE DESIGNED TO BEAR ON NATURAL SOILS OR COMPACTED FILL CAPABLE OF SUPPORTING 2,000 PSF. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 32" MINIMUM BELOW FINISHED GRADE. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.
 - SUPPLEMENTAL GEOTECHNICAL RECOMMENDATIONS ARE NEEDED TO GET EXACT RECOMMENDATIONS FOR SYSTEM DESIRED
- 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.
- WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

DELEGATED DESIGN

- THE FOLLOWING ELEMENTS SHALL BE CONSIDERED DELEGATED DESIGN AND SHALL REQUIRE SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.
 - PRE-ENGINEERED METAL BUILDING
 - PRE-ENGINEERED TRUSSES
 - STOREFRONT OPENING SYSTEMS.
 - LIVE GOODS FRAMING AND FOUNDATION

STRUCTURAL SUBMITTALS

- CONCRETE MIX DESIGNS
- CONCRETE REINFORCING FOR ALL FOUNDATION COMPONENTS
- CONCRETE MASONRY UNIT (CMU) REINFORCING FOR ALL MASONRY PORTIONS OF THE WORK.
- CONCRETE MASONRY UNIT (CMU) AND ACCESSORY PRODUCT DATA INCLUDING:
 - COMPOSITION AND LEGACY TESTING DATA FOR CMU
 - COMPOSITION AND LEGACY TESTING DATA FOR MORTAR
 - COMPOSITION AND LEGACY TESTING DATA FOR GROUT
 - LADDER-TYPE JOINT REINFORCING
 - JOINT AND JOINT COVER MATERIAL
- STRUCTURAL STEEL COLUMNS, BASE PLATES, CAP PLATES, SHEAR PLATES, CONNECTIONS BETWEEN / AMONG ALL STRUCTURAL STEEL MEMBERS.
- STRUCTURAL STEEL JOIST AND DECK, INCLUDING LAYOUT, COMPOSITION, AND CONNECTIONS.
- COLD FORMED STEEL (CFS) PRE-ENGINEERED TRUSSES:
 - MATERIALS
 - DESIGN DRAWINGS, STAMPED BY THE TRUSS DESIGNER, LICENSED IN THE PROJECT STATE
- NON-LOAD BEARING COLD FORMED STEEL (CFS) PRE-ENGINEERED STUDS AND JOISTS.

REINFORCED CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318-14.
- REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60).
- THE COMPRESSIVE STRENGTH AT 28 DAYS OF ALL CAST IN PLACE CONCRETE SHALL BE 4000 PSI USING TYPE I, II, I/II, OR II PORTLAND CEMENT. SEE CIVIL DRAWINGS FOR SITE CONCRETE. FOUNDATION CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318-14, UNLESS NOTED OTHERWISE.
- CLEAR CONCRETE COVER FOR REINFORCING STEEL:
 - WALLS: 2" EXTERIOR FACES, 3/4" INTERIOR FACES
 - MASONRY WALLS: LOCATE IN CENTER OF WALL (U.N.O.)
 - SLAB ON GRADE: 3/4" TOP STEEL, 1 1/2" BOTTOM STEEL
 - FOOTINGS: 2" FORMED EDGES
- THE LONGITUDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
- MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE.
- UNLESS OTHERWISE DIRECTED BY THE OWNER, CONCRETE SLABS SHALL BE FINISHED TO THE FLATNESS CRITERIA NOTED IN THE CONCRETE SPECIFICATIONS ON SHEET S5.4, UNDER SECTION 3.04 - "CONCRETE FLOOR FINISHES AND TOLERANCES"
- CONCRETE TESTING REPORTS SHALL BE KEPT ON FILE AT THE JOB SITE.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE ANSI/AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- STRUCTURAL STEEL ROLLED SHAPES SHALL BE ASTM A-992 GRADE 50 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES AND ANGLES SHALL BE ASTM A-36.
- STRUCTURAL PIPE COLUMNS SHALL BE ASTM A500 ROUND, TYPE E OR S, GRADE C. STRUCTURAL TUBES SHALL BE ASTM A500, GRADE C.
- NON-SHRINK GROUT FOR PLACEMENT BELOW ALL STRUCTURAL STEEL BASE PLATES SHALL BE NON-SHRINK GROUT PROVIDED SPECIFICALLY FOR USE BELOW STRUCTURAL STEEL BASE PLATES AND ACHIEVE A COMPRESSIVE STRENGTH OF 10,000 PSI AT 28 DAYS. GROUT BELOW BASE PLATES SHALL CONFORM TO ASTM C-109.**
- FRAMED BEAM CONNECTIONS SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER EMPLOYED BY THE FABRICATOR TO DEVELOP THE BEAM REACTIONS SHOWN ON STRUCTURAL PLANS. IN NO CASE SHALL THE LENGTH OF THE FRAMED CONNECTION BE LESS THAN 1/2 THE "T" DIMENSION OF THE BEAM WEB. WHERE REACTIONS ARE NOT SHOWN, THE BEAM END CONNECTIONS SHALL DEVELOP ONE HALF THE MAXIMUM ALLOWABLE UNIFORM LOAD FOR THE BEAM ASSUMING THE BEAM IS CONTINUOUSLY SUPPORTED LATEROALLY.**
- STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4 INCH DIAMETER MINIMUM AND SHALL BE ASTM A-325-N, UNLESS NOTED OTHERWISE.
- USE CALIBRATED WRENCHES OR DIRECT TENSION INDICATORS AND HARDENED WASHERS WITH ALL HIGH STRENGTH BOLTS OR USE LOAD INDICATOR BOLTS.**
- STEEL JOISTS SHALL BE CAMBERED PER STEEL JOIST INSTITUTE SPECIFICATIONS. STEEL JOIST SHALL ALSO BE DESIGNED TO RESIST THE NEW WIND UPLIFT LOADS INDICATED ON UPLIFT PRESSURE DIAGRAM, THIS SHEET. FOR UPLIFT CALCULATIONS, DEAD LOAD OF ROOFING SYSTEM AND STEEL DECK IS ASSUMED TO BE 10 PSF.
- METAL DECK SHALL BE INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS, LATEST EDITION.
- WELD WASHERS SHALL BE USED WITH METAL DECK THINNER THAN 22 GAUGE.
- ANCHOR BOLTS SHALL BE F1554, GR 55 SUPPLEMENT 1 (WELDABLE) HEADED BOLTS. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 12 BOLT DIAMETERS UNLESS NOTED OTHERWISE. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC., BEFORE INSTALLATION.
- FRAMED BEAM CONNECTIONS SHALL DEVELOP ONE HALF OF THE ALLOWABLE UNIFORM LOAD FOR LATEROALLY SUPPORTED BEAMS AS SHOWN IN PART 2 OF THE AISC MANUAL. IN NO CASE SHALL THE LENGTH OF THE CONNECTION BE LESS THAN THE "T" DIMENSION.**
- WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQUIRED BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO AWS D1.1 STRUCTURAL WELDING CODE BY THE AMERICAN WELDING SOCIETY. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.
- HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.
- THE STEEL JOIST & JOIST GIRDER MANUFACTURER SHALL DESIGN THE JOISTS & JOIST GIRDERS FOR A NET UPLIFT FORCE AS SHOWN ON THE UPLIFT DIAGRAM ON THIS SHEET, AND SHALL FURNISH THE NECESSARY FRAMING TO ENSURE PROPER JOIST & JOIST GIRDER PERFORMANCE UNDER UPLIFT DUE TO WIND AS WELL AS GRAVITY LOADING CONDITIONS.
- PROVIDE SPECIAL JOIST SEATS WHERE REQUIRED BY NARROW BEARING CONDITIONS.
- PAINT ALL STRUCTURAL STEEL WITH ONE COAT OF RUST-INHIBITIVE PRIMER 2.5 MILS IN THICKNESS. THE COMPATIBILITY OF PRIMER AND ANY TOP COAT SHALL BE VERIFIED BEFORE ANY PAINTING IS PERFORMED. TOUCH-UP ALL EXPOSED METAL AFTER FIELD INSTALLATION. ALL STRUCTURAL STEEL WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE WITH THE PRIMED SURFACE.
- STRUCTURAL STEEL SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS, CONNECTIONS, AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. STRUCTURAL STEEL SHOP DRAWINGS SHALL NOT INCLUDE MISCELLANEOUS GENERAL SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE GENERAL CONTRACTOR HAS THOROUGHLY REVIEWED THE SHOP DRAWINGS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES. ONLY THREE SETS OF MARKED UP SHOP DRAWINGS SHALL BE RETURNED BY THE DESIGNER. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.**
- STEEL JOISTS AND JOIST GIRDER SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A REGISTERED ENGINEER IN THE PROJECT STATE CONFIRMING THE DESIGN OF JOISTS AND JOIST GIRDERS TO SJI SPECIFICATIONS AND FOR ALL LOADINGS SPECIFIED ON THE DRAWINGS. STEEL JOISTS SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL STEEL SUBCONTRACTOR PRIOR TO ENGINEER'S REVIEW.



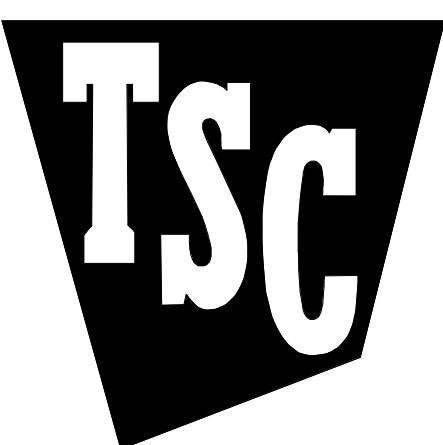
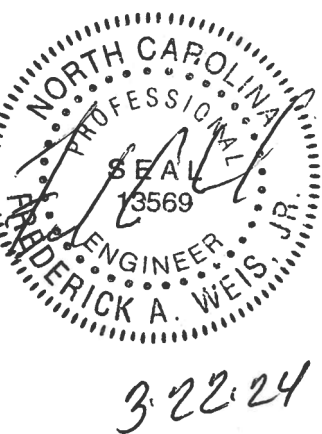
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LILLINGTON
NORTH CAROLINA

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Job Number: 2360

Date: 03.22.2024

Revisions:

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STRUCTURAL GENERAL NOTES

Sheet Number: **S5.0**

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STRUCTURAL GENERAL NOTES, CONT.

POST INSTALLED ANCHORS IN CONCRETE, CONCRETE MASONRY, AND ADHESIVE ANCHOR REINFORCING

- POST-INSTALLED ANCHORS AND ADHESIVE ANCHORED REINFORCING STEEL 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.
- ALL POST INSTALLED ANCHORS AND ADHESIVES SHALL HAVE VALID AND CURRENT ICC-ESR REPORTS.
- 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.
- MECHANICAL ANCHORS FOR CONCRETE AS SHOWN ON THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED AS SPECIFIED WITHIN THE CONTRACT DOCUMENTS.
- IN ADDITION TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, THE FOLLOWING GUIDELINES SHALL BE FOLLOWED FOR INSTALLATION OF ADHESIVE ANCHORS:
 - ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION.
 - ADHESIVE ANCHORS SHALL BE INSTALLED IN DRY CONCRETE, AND DURING DRY CONDITIONS.
 - ADHESIVE ANCHORS SHALL BE INSTALLED IN HOLES PREDRILLED WITH A CARBIDE TIPPED DRILL BIT.
 - 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 FULL CURING TIME ASSOCIATED WITH THE INSTALLATION TEMPERATURE HAS ELAPSED.
- 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.
- 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.

CONCRETE MASONRY

- CONCRETE MASONRY SHALL CONFORM TO TMS 402-16, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES," AND TMS 602-16, "SPECIFICATIONS FOR MASONRY STRUCTURES," AND SHALL HAVE A MINIMUM PRISM STRENGTH (F'M) OF 2,000 PSI.
- MASONRY WALL CONTROL JOINTS SHALL BE LOCATED AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- MASONRY UNITS SHALL CONFORM WITH ASTM C90 "STANDARD SPECIFICATIONS FOR LOADBearing CONCRETE MASONRY UNITS" AND HAVE MINIMUM AVERAGE NET-AREA COMPRESSIVE STRENGTH OF 2150 PSI. MASONRY UNITS SHALL HAVE AN AVERAGE DENSITY WITHIN THE RANGE OF 105 TO 125 POUNDS PER CUBIC FEET.
- GROUT FOR FILLING CONCRETE MASONRY CELLS SHALL CONFORM TO ASTM C476-09, "STANDARD SPECIFICATION FOR GROUT FOR MASONRY," AND SHALL HAVE A COMPRESSIVE PRISM STRENGTH (F'M) OF 3000 PSI AT 28 DAYS. THE SLUMP SHALL BE BETWEEN 9 INCHES AND 11 INCHES. WHERE THE MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3 INCHES OR LESS, USE FINE GROUT. OTHERWISE, USE COARSE (PEA GRAVEL) GROUT.
- MORTAR FOR CONCRETE MASONRY SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C270-08, "SPECIFICATION FOR MORTAR FOR UNIT MASONRY" AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI.
- MASONRY CONSTRUCTION SHALL BE BUILT IN LIFTS NOT TO EXCEED 4 FEET PRIOR TO GROUTING CORES. KEY NEXT GROUT LIFT INTO PRIOR LIFT BY STOPPING FIRST LIFT 2" BELOW TOP OF BLOCK.
- ALL REINFORCING BARS IN FILLED CELLS SHALL BE DOWELED INTO FOOTINGS WITH STANDARD 90-DEGREE HOOKS AND DOWELED 7 INCHES INTO BOND BEAMS AT TOP OF WALLS.
- REINFORCEMENT IN WALLS SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS NOTED OTHERWISE. SEE PLANS FOR REINFORCING.
- MASONRY LAP SPLICES: SEE TABLE BELOW.

CONCRETE MASONRY REINFORCING LAP LENGTH SCHEDULE			MINIMUM BEND DIAMETERS
BAR SIZE	8" WALL	12" WALL	MIN. DIA. 6d
#3	16"	16"	NOTE: 1. d= BAR DIAMETER. BARS REQUIRED TO BE FIELD BENT SHALL BE BENT COLD TO THE MINIMUM DIAMETER SPECIFIED. FIELD BENDING IN EXCESS OF A 90 DEGREE BEND IS PROHIBITED.
#4	21"	21"	
#5	26"	26"	
#6	43"	40"	
#7	60"	46"	

NOTE:

*WHERE DROPPED WEB MASONRY IS INDICATED, MASONRY BOND BEAMS WITH U-NOTCHES OR BOTTOMS REMOVED FOR PASSAGE OF GROUT & REINFORCING MAY BE SUBSTITUTED. WHERE DROPPED WEB MASONRY IS USED, PROVIDE ACI APPROVED SCREENING/GROUT RETENTION MATERIAL TO ENSURE STOPPAGE OF GROUT TO CELLS BELOW WHERE LIMIT OF GROUTED CELLS ARE INDICATED.

PRE-ENGINEERED COLD FORMED STEEL TRUSSES

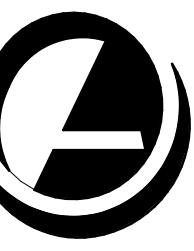
- ROOF TRUSSES SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS:
 - TOP CHORD: DEAD LOAD - 17 PSF LIVE LOAD - 20 PSF SNOW LOAD - 10 PSF
 - BOTTOM CHORD: DEAD LOAD - 8 PSF
- IN ADDITION TO UNIFORM LOADING SPECIFIED FOR TRUSS DESIGN, THE TRUSS SUPPLIER SHALL INCLUDE ANY CONCENTRATED LOADS CAUSED BY ARCHITECTURAL FEATURES OR MECHANICAL EQUIPMENT IN THE TRUSS DESIGN.
- SEE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES, DIMENSIONS AND BEARING CONDITIONS.
- A REGISTERED ENGINEER IN THE PROJECT STATE SHALL DESIGN THE TRUSSES AND THEIR CONNECTIONS TO THE SUPPORTING STRUCTURES. SHOP DRAWINGS, INCLUDING TRUSS DESIGN AND LAYOUT, BEARING THE ENGINEER'S SEAL AND SIGNATURE, SHALL BE SUBMITTED FOR REVIEW.
- TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" AND "DESIGN OF COLD-FORMED STEEL TRUSSES" AND THE LIGHT GAGE STEEL TRUSS ENGINEER'S ASSOCIATION "FIELD INSTALLATION GUIDE FOR COLD-FORMED STEEL TRUSSES".

COLD FORMED STUDS (CFS)

- ALL WORK SHALL CONFORM WITH THE FOLLOWING STANDARDS:
 - AISI S100-07/SI-10, "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, WITH SUPPLEMENT 1, DATED 2010."
 - AISI S200-07, "NORTH AMERICAN STANDARD FOR COLD FORMED STEEL FRAMING - GENERAL PROVISIONS."
 - AISI S210-07, "NORTH AMERICAN STANDARD FOR COLD FORMED STEEL FRAMING - FLOOR AND ROOF SYSTEM DESIGN."
 - AISI S211-07, "NORTH AMERICAN STANDARD FOR COLD FORMED STEEL FRAMING - WALL STUD DESIGN."
 - AISI S212-07, "NORTH AMERICAN STANDARD FOR COLD FORMED STEEL FRAMING - HEADER DESIGN."
 - AISI S213-07/SI-10 "NORTH AMERICAN STANDARD FOR COLD FORMED STEEL FRAMING - LATERAL DESIGN, WITH SUPPLEMENT 1, DATED 2010."
- COMPONENT SECTION PROPERTIES INCLUDING, BUT NOT LIMITED TO, AREA (A), MOMENT OF INERTIA (I_x AND I_y) AND RADIUS OF GYRATION (R_x, R_y) SHALL MEET OR EXCEED PUBLISHED VALUES BY CLARKDIETRICH BUILDING SYSTEMS FOR MEMBER SIZES INDICATED.
- PROVIDE FRAMING ACCESSORIES THAT MEET OR EXCEED BASIS OF DESIGN PRODUCTS BY CLARKDIETRICH BUILDING SYSTEMS. THESE PRODUCTS MAY INCLUDE BUT ARE NOT LIMITED TO:
 - SUPPLEMENTARY FRAMING.
 - BRACING, BRIDGING, AND SOLID BLOCKING.
 - ANCHOR CLIPS.
 - END CLIPS.
 - FOUNDATION CLIPS.
 - GUSSET PLATES.
 - STUD KICKERS AND KNEE BRACES.
 - JOIST HANGERS AND END CLOSURES.
 - HOLE REINFORCING PLATES.
 - BACKER PLATES.
- OTHER CONNECTORS FROM SIMPSON STRONG-TIE COMPANY MAY BE SPECIFIED ON THE DRAWINGS.
- 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.
- 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.
- 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.
- 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.
- 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.
- SPLICES IN STEEL JOISTS OR STUDS SHALL NOT BE PERMITTED.
- 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.
- PERFORMANCE REQUIREMENTS
 - CALCULATE STRUCTURAL PROPERTIES PER AISI - SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2007.
- SUBMITTALS
 - SUBMIT DOCUMENTATION.
 - PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:
 - PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.
 - STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.
 - INSTALLATION METHODS.
 - STRUCTURAL CALCULATIONS:
 - 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.
 - DESCRIPTION OF DESIGN CRITERIA.
 - SELECTION OF FRAMING COMPONENTS, ACCESSORIES AND WELDED CONNECTION REQUIREMENTS.
 - VERIFICATION OF ATTACHMENTS TO STRUCTURE AND ADJACENT FRAMING COMPONENTS.

ABBREVIATIONS

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



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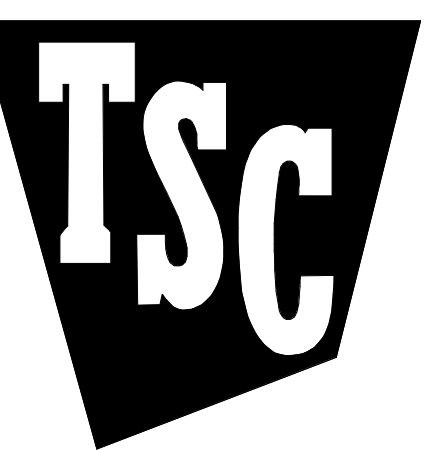
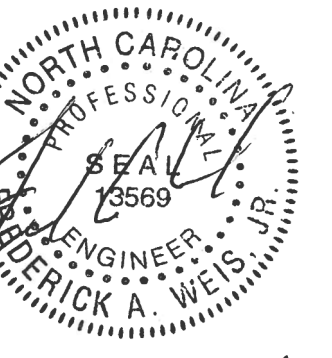
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STRUCTURAL GENERAL NOTES,
CONT.

Sheet Number: **S5.1**

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**QUALITY ASSURANCE PLAN /
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:

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> FABRICATORS | <input type="checkbox"/> PRECAST CONCRETE | <input type="checkbox"/> SEISMIC RESISTANCE |
| <input checked="" type="checkbox"/> SOILS | <input checked="" type="checkbox"/> MASONRY LEVEL 1 | <input type="checkbox"/> WIND RESISTANCE |
| <input type="checkbox"/> PILE FOUNDATIONS | <input type="checkbox"/> MASONRY LEVEL 2 | <input type="checkbox"/> WOOD CONSTRUCTION |
| <input type="checkbox"/> PIER FOUNDATIONS | <input checked="" type="checkbox"/> STRUCTURAL STEEL | <input type="checkbox"/> SPECIAL CASES |
| <input checked="" type="checkbox"/> CONCRETE CONSTRUCTION | <input type="checkbox"/> COLD-FORMED STEEL FRAMING | <input checked="" type="checkbox"/> OPEN-WEB STEEL JOISTS |
| | <input checked="" type="checkbox"/> STEEL CONSTRUCTION: OTHER | <input type="checkbox"/> AND JOIST GIRDERS |

**REGISTERED DESIGN PROFESSIONAL
IN RESPONSIBLE CHARGE****

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

NOTE:

- **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.
- 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:

- THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR.
- ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
- 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.
- 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	CONTINUOUS	PERIODIC
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	YES	-	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:
CONCRETE CONSTRUCTION**

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT.	YES	-	X
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE: STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL ITEM 3.	YES	-	X
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	YES	-	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 STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND 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:
MASONRY CONSTRUCTION - LEVEL 1**

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	YES	-	X
2. VERIFICATION OF F _m AND FAAC PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE BUILDING CODE.	YES	-	X
3. VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.	YES	X	-
4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. PROPORTIONS OF SITE-PREPARED MORTAR.	YES	-	X
B. CONSTRUCTION OF MORTAR JOINTS.	YES	-	X
C. LOCATION OF REINFORCEMENT, CONNECTORS, ANCHORAGES.	YES	-	X
D. PRESTRESSING TECHNIQUE.	NO	-	X
E. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	NO	-	X
5. DURING CONSTRUCTION, THE INSPECTION PROGRAM SHALL VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	YES	-	X
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS FRAMES OR OTHER CONSTRUCTION.	YES	-	X
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.	YES	-	X
D. WELDING OF REINFORCING BARS.	YES	X	-
E. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	YES	-	X
F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	NO	-	X
6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN.	YES	-	X
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.	YES	-	X
C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	NO	-	X
D. CONSTRUCTION OF MORTAR JOINTS.	YES	-	X
7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS. A. GROUTING OF PRESTRESSING BONDED TENDONS.	YES	X	-
B. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	YES	-	X



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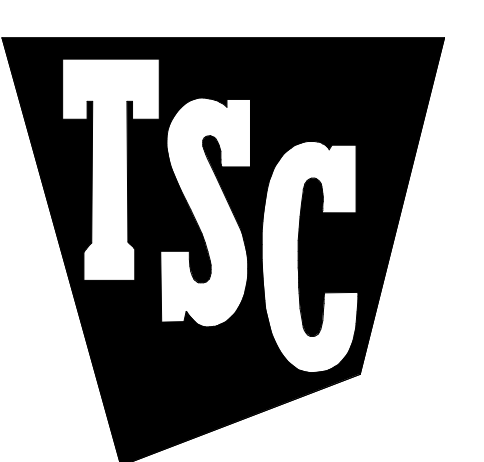
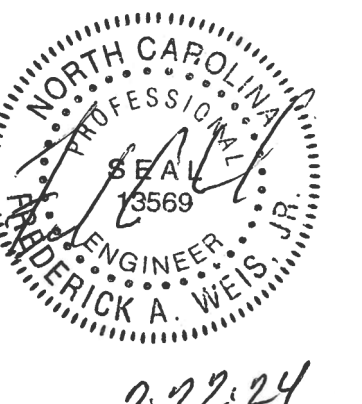


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QUALITY ASSURANCE / PROPOSED STATEMENT OF SPECIAL INSPECTIONS

Sheet Number: **S5.2**

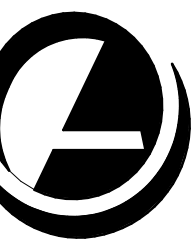
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**QUALITY ASSURANCE PLAN /
PROPOSED STATEMENT OF SPECIAL
INSPECTION, CONT.**

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. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT, CALIBRATED WRENCH, OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	YES	-	X
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	NO	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

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. ROOF DECK WELDS.	YES	-	X
3. INSPECTION OF WELDING, REINFORCING STEEL: A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	YES	-	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.	YES	X	-
D. OTHER REINFORCING STEEL.	YES	-	X
4. INSPECTION OF COLD-FORMED STEEL TRUSSES: A. VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE.	YES	-	X
B. VERIFY PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE.	YES	-	X

SPECIAL INSPECTION SCHEDULE: OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS A. END CONNECTIONS - WELDING OR BOLTED.	YES	-	X
B. BRIDGING - HORIZONTAL OR DIAGONAL	YES	-	X
2. STANDARD BRIDGING	YES	-	X
3. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	YES	-	X



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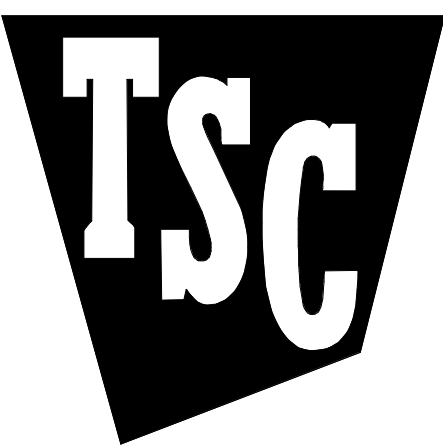
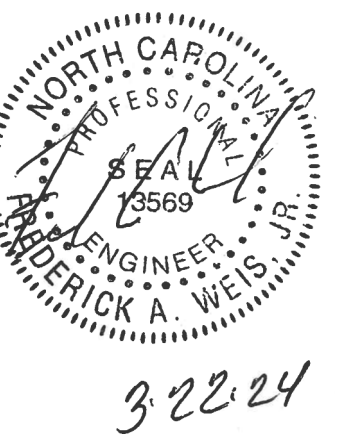
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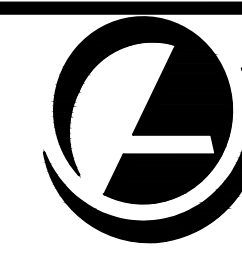
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QUALITY ASSURANCE / PROPOSED
STATEMENT OF SPECIAL
INSPECTIONS, CONT.

Sheet Number: **S5.3**

WE-??



INTERNATIONAL MC 403.3 COMPLIANCE SCHEDULE

Table with 7 columns: UNIT NUMBER, AREA SERVED, AREA (SQ. FT.), NO. PEOPLE/1000 SQ. FT., PEOPLE QUANTITY, AIRFLOW PER PERSON, CFM / SQ. FT., TOTAL. Rows include RETAIL SALES, STOCKROOM, EMPLOYEE LOUNGE, OFFICE, CORRIDOR, and I.T. CLOSET.

NOTES: * MAX. OCCUPANCY IN EMPLOYEE LOUNGE FURNISHED BY OWNER. ** OPERABLE OPENING AREAS IN STOCKROOM EXCEEDS 4% OF FLOOR SPACE PER IMC SECTION 402.2. *** MAXIMUM OCCUPANCY BASED ON OWNER FURNISHED DATA

TRACTOR SUPPLY LIGHTING & HEATING SCHEDULE

Table with 7 columns: ON/OFF, PYLON/BUILDING SIGN, BUILDING LIGHTS, BUSINESS LIGHTS, EMPLOYEE LIGHTS, HEATING, COOLING, SUNDAY. Includes control zones LZ-3, LZ-2, LZ-1B, LZ-1A and notes on system override and contractor responsibilities.

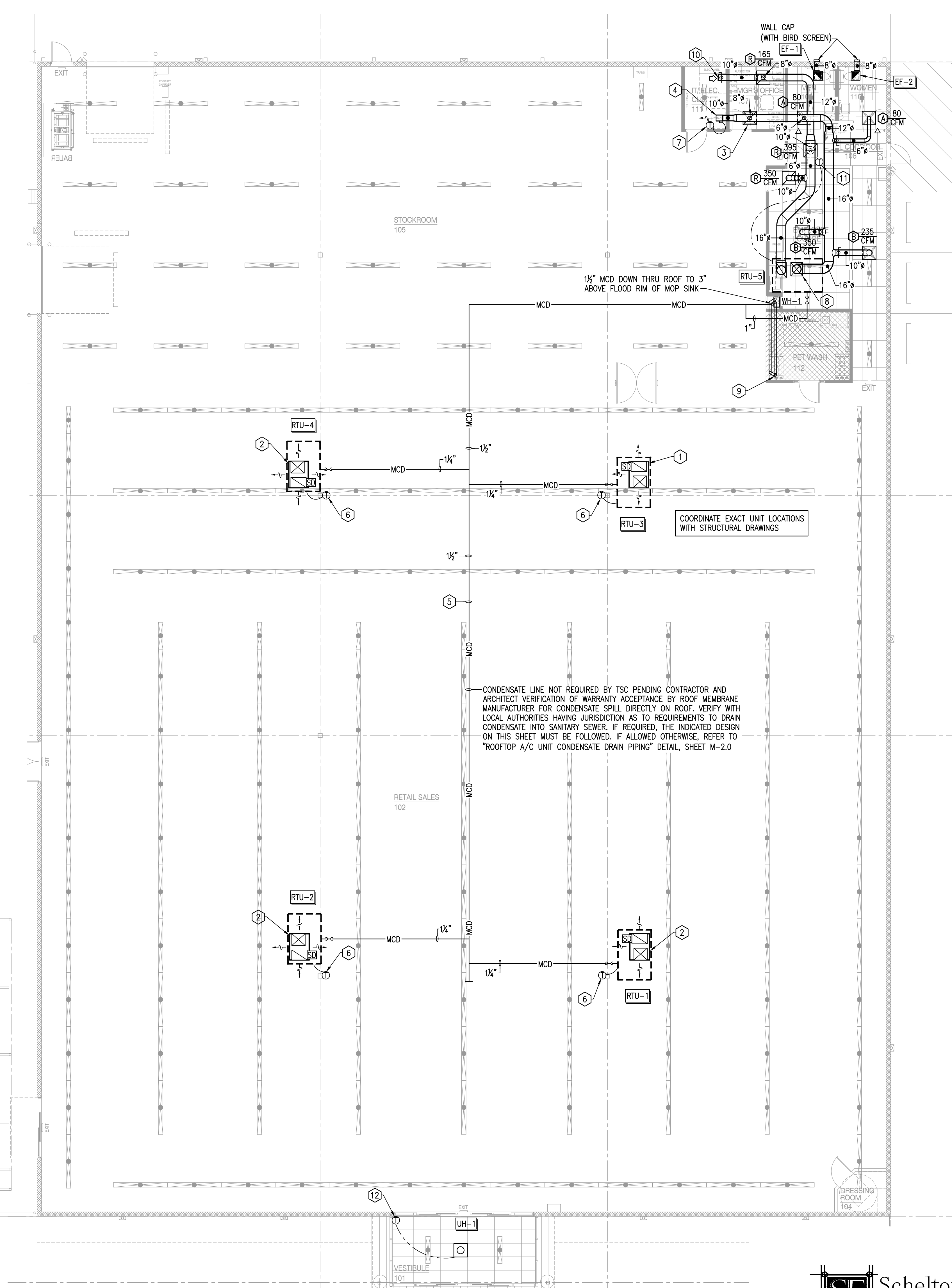
GENERAL NOTES: - THERMOSTATS SERVING RTU-1, 2, 3, & 4 SHALL BE INTERLOCKED IN ORDER TO PREVENT SIMULTANEOUS HEATING/COOLING. - REFER TO SHEET E3.1 FOR THERMOSTAT MOUNTING DETAILS. - RETURN AIR GRILLE FLOW QUANTITIES SHOWN INDICATE 100% AIR FLOW RETURN DURING UNOCCUPIED HOURS OF OPERATION - CONTRACTORS ARE TO SCHEDULE AND PAY FOR ANY INSPECTIONS REQUIRED DUE TO APPENDIX 5 OF THE NC STATE BUILDING CODE.

MECHANICAL LEGEND

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for ductwork, dampers, diffusers, grilles, fans, CFM, floor levels, condensate drains, smoke detectors, equipment labels, thermostats, air flow, and undercut doors.

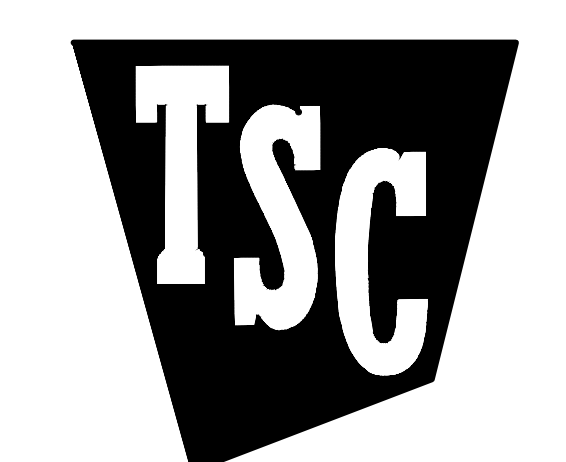
CONSTRUCTION NOTES

- 1 FURNISH AND INSTALL CONCENTRIC DIFFUSER AND PLENUM WITH 18"x28" SUPPLY AND RETURN CONNECTIONS BY RUSKIN ROOFTOP SYSTEMS MODEL 01-530-22 OR APPROVED EQUAL. REFER TO SHEET M2.0 "CONCENTRIC DIFFUSER DETAIL".
2 FURNISH AND INSTALL CONCENTRIC DIFFUSER AND PLENUM WITH 18"x32" SUPPLY AND RETURN CONNECTIONS BY RUSKIN ROOFTOP SYSTEMS MODEL 01-530-50 OR APPROVED EQUAL. REFER TO SHEET M2.0 "CONCENTRIC DIFFUSER DETAIL".
3 FURNISH AND INSTALL 2'x2' ADJUSTABLE MODULATING SUPPLY AIR DEVICE, THERMA-FUSER BY ACUTHERM, MODEL TF-HC-8 WITH 8" COLLAR, SET AT 72°F HEATING AND COOLING AND 165 CFM MAX FLOW. FURNISH COMPLETE WITH INSULATED BACKING AND 10% ADJUSTABLE SCREW FLOW STOP.
4 FURNISH AND INSTALL VAV DAMPER BY ZONEK, MODEL STMPD10, WITH SAMOD THERMOSTAT, TR-1 24V TRANSFORMER, AND TS-1 DUCT TEMPERATURE SENSOR. BALANCE SUPPLY AIRFLOW TO 290 CFM.
5 ROUTE MCD LINE ON ROOF AT 1/8" PER FOOT TOWARD DRAIN. REFER TO DETAIL FOR PIPE SUPPORT INSTALLATION.
6 MOUNT THERMOSTAT 90° A.F.F. ON POLE FACING AWAY FROM NEAREST DIFFUSER.
7 MOUNT THERMOSTAT 60° A.F.F.
8 CONTRACTOR SHALL VERIFY SUPPLY AND RETURN DUCT FROM UNIT FALLS WITHIN CORE AREA WALLS TO DECK.
9 EXTEND 4" PVC GAS FLUE AND COMBUSTION AIR INTAKE UP TO CONCENTRIC VENT KIT THRU ROOF. SIZE COMBUSTION AIR AND FLUE PIPING AND INSTALL CONCENTRIC VENT KIT THRU ROOF PER MANUFACTURER'S RECOMMENDATIONS.
10 10" RETURN DUCT OPEN TO SPACE. CAP WITH WIRE MESH - PROVIDE MANUAL VOLUME DAMPER IN RETURN AIR DUCT AND BALANCE FOR 290 CFM.
11 MOUNT THERMOSTAT 48° A.F.F.
12 SET THERMOSTAT 60°F HEATING WINTER. MOUNT THERMOSTAT 72° A.F.F.



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

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TRACTOR SUPPLY COMPANY LILLINGTON NORTH CAROLINA

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Job Number: 2360 Date: 03.22.2024 Revisions: Revisions: MECHANICAL FLOOR PLAN Sheet Number: M1.0

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 ARCHITECT, PRIOR TO 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

- NEW ROOFTOP UNITS SHALL BE THE YORK PREDATOR/SUNLINE SERIES OR LENNOX "L" SERIES* ROOFTOP UNITS WITH ELECTRIC COOLING AND GAS HEATING. THE MECHANICAL CONTRACTOR SHALL CONTACT YORK AT 405-419-6531 OR LENNOX AT 404-403-7083 TO REQUEST PRICING AND TECHNICAL SUPPORT ON THE TRACTOR SUPPLY COMPANY NATIONAL ACCOUNT.
- 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.

- FAN SHALL BE STATICALLY AND DYNAMICALLY BALANCED, DOUBLE INLET, FORWARD CURVED BLOWER CAPABLE OF DELIVERING DESIGN CFM. FAN SHALL BE QUIET IN OPERATION AND INTERNALLY VIBRATION ISOLATED.
 - 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.
 - 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.
- FANS
 - FANS SHALL BE EQUAL TO THE MAKE AND MODEL(S) INDICATED AND SHALL BE LOCATED AS SHOWN ON DRAWINGS. FANS SHALL BE PENN. A.C.M.E. LOREN COOK OR GREENHECK.
 - FANS SHALL BE FURNISHED COMPLETE WITH VIBRATION ISOLATION, PLUG TYPE DISCONNECT, NON-YELLOWING PLASTIC GRILLE, THERMAL OVER LOAD PROTECTION, AND INSULATED HOUSING.
 - UNIT HEATERS (ELECTRIC)
 - UNIT HEATERS SHALL BE EQUAL TO THE MAKE AND MODEL(S) INDICATED AND SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. UNIT HEATERS SHALL BE BY MARKEL, BERKO, OR EMERSON. FINISH SHALL BE AS SELECTED BY ARCHITECT.
 - ROOF CURBS
 - CONTRACTOR SHALL PROVIDE ALL ROOF CURBS FOR ROOF MOUNTED EQUIPMENT. PRE-CAST ROOF CURB ASSEMBLIES SHALL BE GALVANIZED STEEL WITH WOOD NAILER STRIP. PITCHES SHALL MATCH SLOPE OF ROOF TO PROVIDE LEVEL EQUIPMENT MOUNTING.
 - DUCTWORK AND INSULATION
 - 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.
 - DIMENSIONS FOR SHEETMETAL WORK ON DRAWINGS ARE INSIDE CLEAR UNLESS OTHERWISE NOTED.
 - 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 DEVELOPMENT 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.
 - 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.
 - TRUNK DUCTS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS IN BOTH SUPPLY AND RETURN.
 - 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 O OR CLASS 1.
 - 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.
 - RADIUSED DUCTWORK ELBOWS SHALL HAVE A CENTERLINE RADIUS OF 1.5 TIMES THE DUCT WIDTH (OR DIAMETER) UNLESS NOTED OTHERWISE.
 - ALL MITERED ELBOWS (RECTANGULAR AND ROUND) SHALL HAVE DOUBLE THICKNESS TURNING VANES INSTALLED UNLESS NOTED OTHERWISE ON DRAWINGS.
 - ALL DUCTWORK BRANCHES SHALL BE SUPPLIED WITH A VOLUME DAMPER FOR BALANCING. VOLUME DAMPER SHALL HAVE A 2" OFFSET TO ACCOMMODATE EXTERNAL INSULATION.

- SUPPLY AIR REGISTERS SHALL BE HORIZONTAL FACE TYPE WITH OPPOSED BLADE DAMPERS, ALUMINUM, OFF WHITE FINISH, SIZES AS SHOWN ON DRAWINGS.
- CEILING RETURN AIR AND EXHAUST GRILLES SHALL BE 1/2" x 1/2" EGGCRATE TYPE WITH OFF-WHITE FINISH, ALUMINUM, SIZES AS SHOWN ON DRAWINGS.
- 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.
- GAS FIRED EQUIPMENT
 - ALL GAS FIRED EQUIPMENT SHALL BE A.G.A. CERTIFIED.
 - BURNERS SHALL BE EQUIPPED WITH CONTROLS AND SAFETIES REQUIRED FOR COMPLETE AND FULLY OPERATIONAL SYSTEM. PILOT SHALL BE INTERMITTENT ELECTRIC IGNITION TYPE.
 - HEAT EXCHANGER SHALL BE PROVIDED WITH A MINIMUM TEN (10) YEAR (PARTS ONLY) WARRANTY.
- FLUES AND VENTS
 - CONTRACTOR SHALL FURNISH AND INSTALL ALL FLUES AND VENTS SERVING SEALED COMBUSTION FURNACES SHALL BE POLYPROPYLENE VENT SYSTEM MEETING U.L. 1738 STANDARDS, CENTROTHERM OR APPROVED EQUAL. FLUES AND VENTS SERVING 80% EFFICIENT ATMOSPHERIC BURNERS SHALL BE U.L. LISTED DOUBLE WALL TYPE B WITH SIZES AS INDICATED ON DRAWINGS. PROVIDE WINDPROOF VENT CAPS AT ALL FLUE OUTLETS.
 - CONSTRUCTION AND HEIGHT OF FLUE ABOVE ROOF SHALL CONFORM TO REQUIREMENTS OF NFPA 54 AND LOCAL CODES.
- CONDENSATE PIPING
 - 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

- FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURERS RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
- CONTRACTOR SHALL TEST AND BALANCE MECHANICAL SYSTEM. CONTRACTOR SHALL PROVIDE ALTERNATE PRICE FOR 3RD PARTY ABC CERTIFIED TEST & BALANCE TO ASSURE CONFORMANCE WITH DESIGN. CONTRACTOR SHALL SUBMIT WRITTEN TEST AND BALANCE REPORT TO LOCAL CODE OFFICIALS AS REQUIRED.
- CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- 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.

FAN SCHEDULE

FAN IDENTIFICATION	EF-1	EF-2	
MANUFACTURER	GREENHECK	GREENHECK	
MODEL NUMBER	SP-A190	SP-A190	
SERVICE AREA	MEN'S RR	WOMEN'S RR	
FAN TYPE	CABINET CENT.	CABINET CENT.	
CFM	150	150	
ESP	0.35	0.35	
SONES	1.5	1.5	
MOTOR POWER	46 WATTS	46 WATTS	
VOLTAGE/PHASE	115/60/1#	115/60/1#	
WEIGHT	17 LBS	17 LBS	
ACCESSORIES REQUIRED	A,B,C	A,B,C	

REMARKS:
- EF-1 & 2 SHALL BE INTERLOCKED WITH LIGHTSWITCH SERVING THEIR RESPECTIVE SPACES.

ELECTRIC UNIT HEATER SCHEDULE

IDENTIFICATION	UH-1
MANUFACTURER	MARKEL
MODEL NO.	Y3485A1
KW	5
FAN CFM	425
AMPS	6.1
VOLTAGE / PHASE	480/3#
APPLICABLE NOTES	1,2,3,4,5,6,7

NOTES:
1. UNITS SHALL BE U.L. LISTED
2. PROVIDE THERMAL OVERLOAD PROTECTION.
3. PROVIDE REMOTE THERMOSTAT. SET TEMPERATURE AT 60°F
4. PROVIDE UNIT WITH INTEGRAL DISCONNECT SWITCH.
5. PROVIDE 24 VOLT TRANSFORMER START/STOP RELAY.
6. ACCEPTABLE EQUAL SHALL BE OWARK.
7. LOW VOLTAGE VENDOR TO PROVIDE, INSTALL AND PRE-WIRE FOR FUTURE EMS. SEE DRAWING E-3A FOR DETAILS.

PACKAGED GAS FIRED AC UNIT SCHEDULE 424.6 SQ. FT. PER TON

IDENTIFICATION	RTU-1, 2 & 4	RTU-3	RTU-5
MANUFACTURER	YORK	YORK	YORK
MODEL NUMBER	ZJ150N18	ZJ120N18	ZJ037N08
NOMINAL TONS	12-1/2	10	3
SEER	-	-	15.0
EER	12.0	12.0	12.2
VOLTAGE	480/3#	480/3#	480/3#
UNIT M.C.A.	39.1	24.2	9.6
UNIT M.O.C.P.	50.0	30.0	15.0
TOTAL COOLING CAP. (MBH)	170.8	130.0	37.0
SENSIBLE COOLING CAP. (MBH)	121.3	96.0	26.8
HEATING SECTION:			
CFM SUPPLY	5,000	4,000	1,200
CFM O.A. MIN	735	580	140
EWAP, FAN H.P.	5	3	1-1/2
ESP-IN WG.	.8	.8	.35
HEATING SECTION:			
FUEL	NAT. GAS	NAT. GAS	NATURAL GAS
HEATING INPUT (MBH)	180.0	180.0	80.0
HEATING OUTPUT MBH	144.0	144.0	65.0
FILTER	2"	2"	2"
OPERATING WT. (LBS.)	1,615	1,405	1,075
NOTES	1 THRU 22	1 THRU 22	1 THRU 8, 10 THRU 22

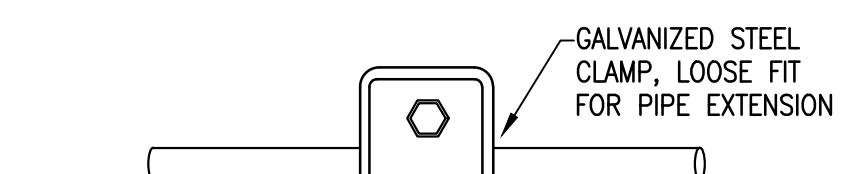
- NOTES:
1. TRACTOR SUPPLY COMPANY HAS NATIONAL ACCOUNTS WITH YORK/JOHNSON CONTROLS & LENNOX. FOR YORK PLEASE EMAIL JOE.RAY@TSC.COM OR CALL 1-405-419-6613 FOR YORK/JOHNSON CONTROLS QUOTATIONS AND TECHNICAL SUPPORT. FOR LENNOX PLEASE EMAIL STEVEN.PETERSEN@LENNOX.COM OR CALL 1-800-367-6285 FOR LENNOX QUOTATIONS AND TECHNICAL SUPPORT. ACCEPTABLE ALTERNATE MANUFACTURER: LENNOX 'L' SERIES. MUST BE COMPATIBLE WITH TSC FURNISHED EMS. MUST BE EQUAL TO OR BETTER THAN YORK PREDATOR/SUNLINE SERIES INCLUDING HINGED DOORS, HIGH EFFICIENCY, WARRANTY, AND MAINTENANCE REQUIREMENTS.
2. COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL, 95°F DB ENTERING CONDENSER.
3. HEATING CAPACITY BASED ON NATURAL GAS AT 1000 BTU PER CUBIC FOOT AND 0.5 SPECIFIC GRAVITY.
4. PROVIDE FACTORY FURNISHED 14" HIGH INSULATED ROOF CURB.
5. PROVIDE FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROVING SWITCH.
6. PROVIDE 1 YEAR LABOR AND 3 YEAR PARTS WARRANTY.
7. PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS.
8. PROVIDE TO YEAR HEAT EXCHANGER WARRANTY.
9. PROVIDE FACTORY INSTALLED SMOKE DETECTORS ON THE RETURN DUCT DISCHARGES.
10. PROVIDE FACTORY INSTALLED DIFFERENTIAL ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF. O.A. DAMPER SHALL CLOSE DURING UNOCCUPIED HOURS.
11. MECHANICAL CONTRACTOR SHALL PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED PRIOR TO STORE OPENING.
12. UNIT SHALL USE R-410A REFRIGERANT (NO EXCEPTIONS).
13. MECHANICAL CONTRACTOR SHALL PROVIDE A START UP CHECKLIST CONFIRMING ALL UNITS HAVE BEEN PROPERLY STARTED AND CONFIRMED RUNNING PROPERLY. CHECKLIST MUST BE PROVIDED TO TSC VIA CLOSE-OUT BINDER.
14. STENCIL TAG NUMBER ON SIDE OF UNITS (FACING ROOF HATCH) WITH 3" HIGH LETTERS AND BLACK EXTERIOR PAINT.
15. NON-POWERED CONVENIENCE OUTLET.
16. PROVIDE COIL (HAIL) GUARDS.
17. ALL WORK TO INSTALL ALL CONTROL DEVICES AND WIRING SHALL BE COORDINATED BETWEEN THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, LOW VOLTAGE VENDOR, AND EMS VENDOR.
18. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND GANG BOXES FOR THERMOSTATS. SEE DRAWINGS ES.1 FOR DETAILS.
19. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND GANG BOXES AS SHOWN ON ES.0. AS NECESSARY FOR LOCAL CONNECTIONS TO FUTURE EMS. COORDINATE FINAL LOCATION OF EXM PANEL WITH EMS VENDOR. SEE DRAWING ES.1 FOR DETAILS.
20. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY THERMOSTATS AND WIRING FOR CONNECTION TO HVAC UNITS. VERIFY FINAL HEIGHT AND PROVIDE 5' OF ADDITIONAL COILED CABLE.
21. LOW VOLTAGE VENDOR SHALL FURNISH AND INSTALL FINAL THERMOSTATS, CARBON DIOXIDE SENSORS, HUMIDITY SENSORS, AND PRE-WIRE FOR EMS. SEE DRAWINGS ES.1 FOR DETAILS.
22. FINAL CONTROL CONNECTIONS TO EMS PANEL TO BE MADE BY EMS VENDOR.

- REMARKS:
- PROVIDE POWER TO UNITS THROUGH KNOCK-OUTS, OR IN CURB. DO NOT PENETRATE ROOF.
- REFER TO ES.1 FOR THERMOSTAT MOUNTING INSTRUCTIONS.
- O.A. DAMPER SHALL CLOSE DURING UNOCCUPIED HOURS.

AIR DISTRIBUTION SCHEDULE

SYMBOL	MFR. & MODEL #	DEVICE	FACE	DEVICE SIZE	VOLUME CONTROL	COLLAR SIZE	REMARKS
(A)	TITUS MOD. TMSA-AA	SUPP. DIFF.	LOUVERED	24" x 24"	M.V.D.	6"	SEE NOTE 1-4
(B)	TITUS MOD. TMSA-AA	SUPP. DIFF.	LOUVERED	24" x 24"	M.V.D.	10"	SEE NOTE 1-4
(R)	TITUS MOD. 50 F	RET. GRILLE	EGGCRATE	24" x 24"			SEE NOTE 5

- NOTES:
1. ALL AIR DEVICES TO HAVE COLOR PER ARCHITECT
2. PROVIDE ROUND NECK COLLARS FOR CEILING DIFFUSERS UNLESS NOTED OTHERWISE.
3. PROVIDE LAY-IN TYPE BORDER FOR CEILING WITH ACOUSTICAL TILE AND SURFACE MTD. TYPE BORDER FOR GYPSUM BOARD CEILINGS (REFER ARCHITECTURAL DWGS)
4. ALL SQUARE CEILING DIFFUSERS ARE TO BE FULL LOUVERED FACE (NO BLANK PANEL)
5. PROVIDE RETURN AIR GRILLES WITH NECK SIZE EQUIVALENT TO RUNOUT SHOWN ON DRAWING.

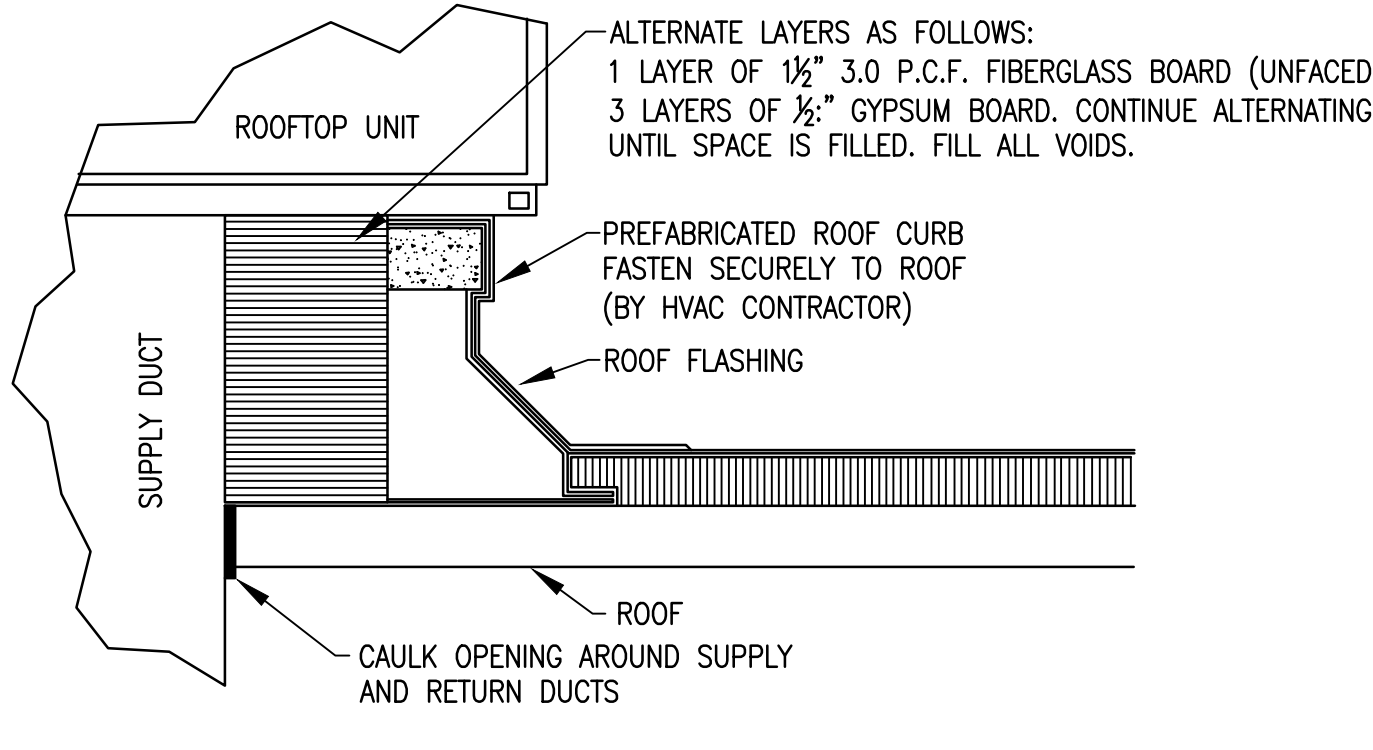


SCALE: NONE

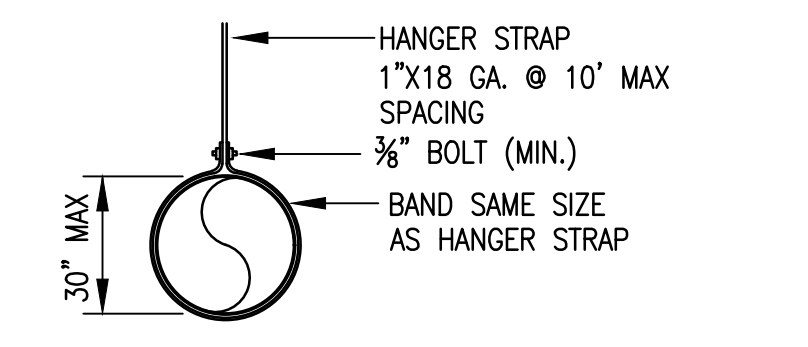
BLOCK SPACING CHART (METAL PIPE)

PIPE SIZE	MAX SPACING
1/2" - 1 1/2"	6'
2" - 2 1/2"	10'
3" - 4"	12'

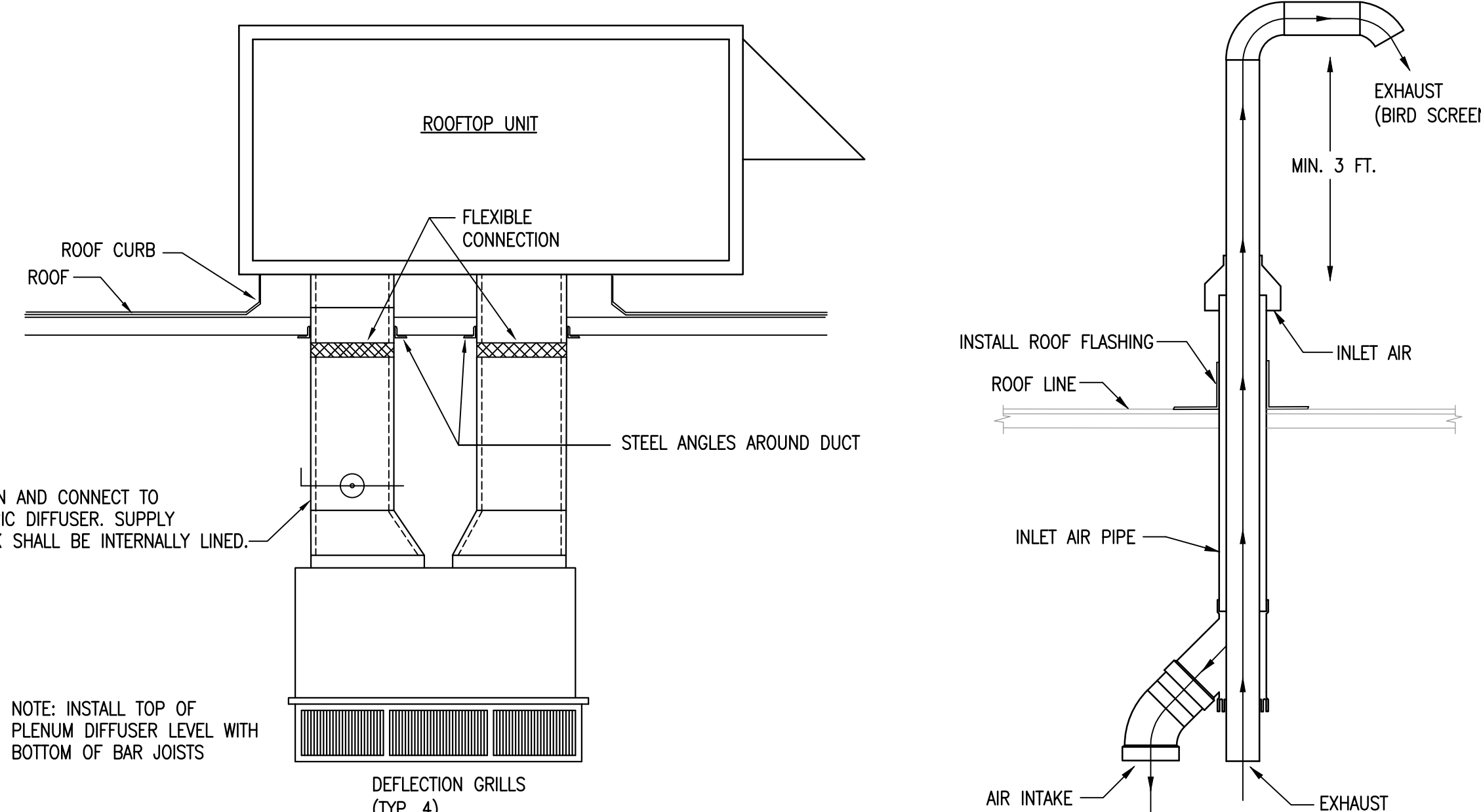
* BLOCK SPACING FOR PLASTIC PIPE (ALL SIZES) SHALL BE 4' MAX



SCALE: NONE

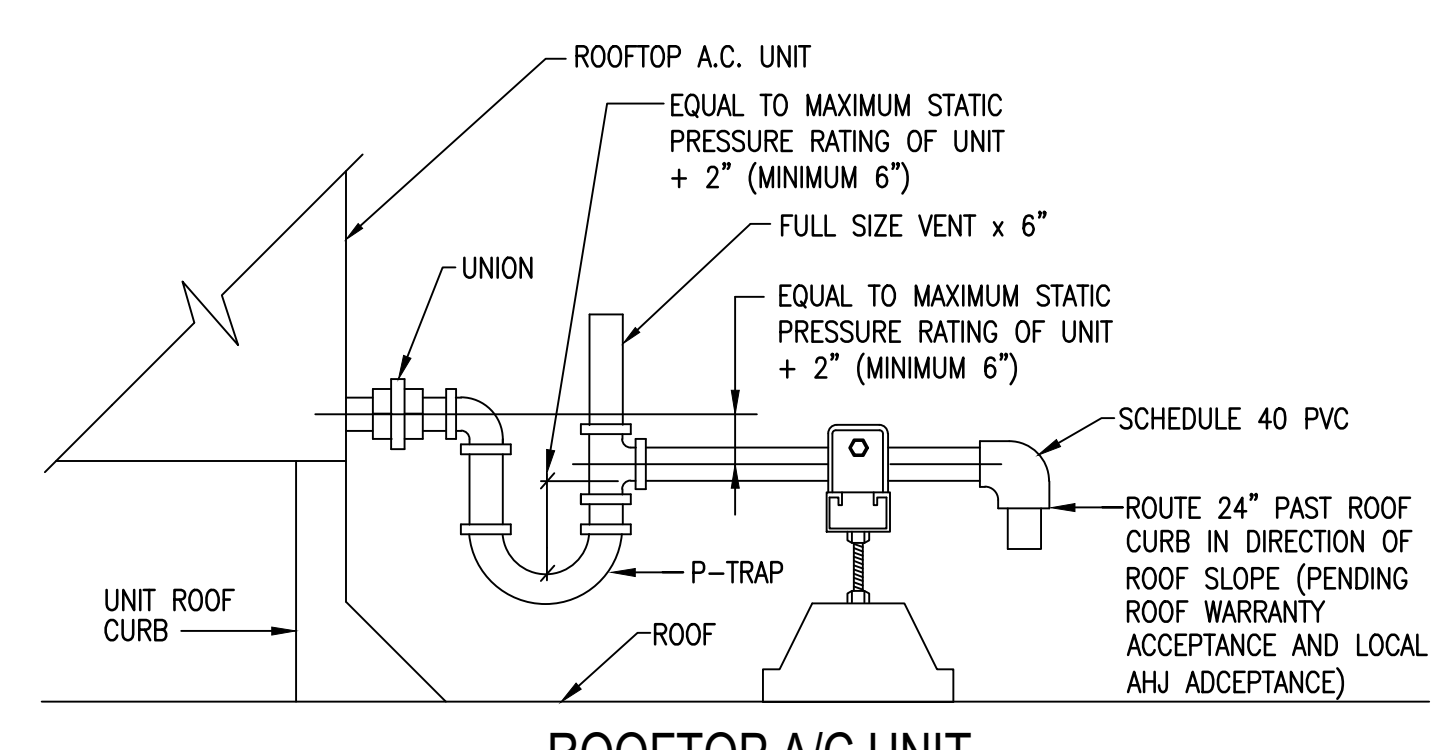


SCALE: NONE

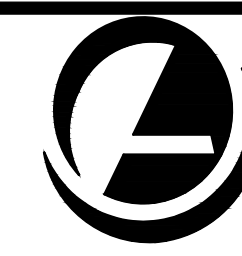


SCALE: NONE

SCALE: NONE

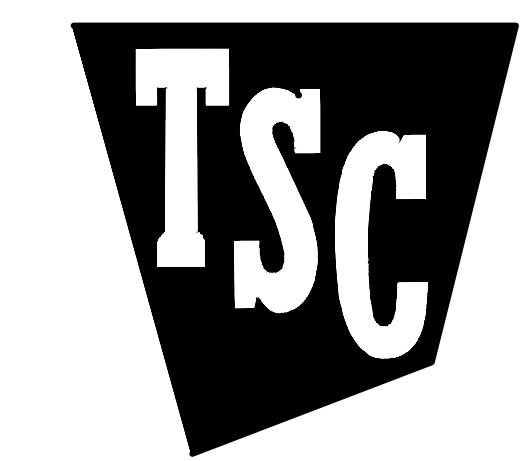


SCALE: NONE



OXFORD ARCHITECTURE

2934 Sidco Drive Suite 130 Nashville, TN 37204 Architecture Planning Interior Architecture



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Job Number: 2360

Date: 03.22.2024

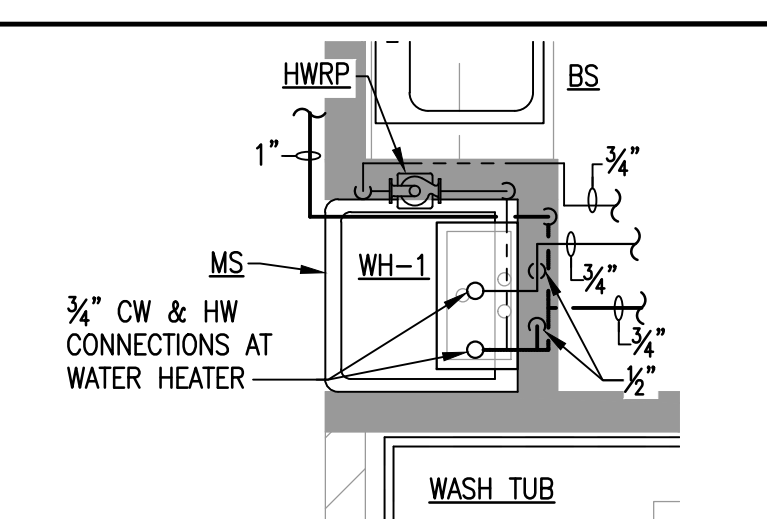
Revisions:

Revisions:

Revisions:

PLUMBING FLOOR PLAN

Sheet Number: P1.0



INSTANTANEOUS WATER HEATER ABOVE MOP SINK ENLARGED PLAN SCALE: 1/2" = 1'-0"

GENERAL NOTE: CONTRACTORS ARE TO SCHEDULE AND PAY FOR ANY INSPECTIONS REQUIRED DUE TO APPENDIX 5 OF THE NC STATE BUILDING CODE.

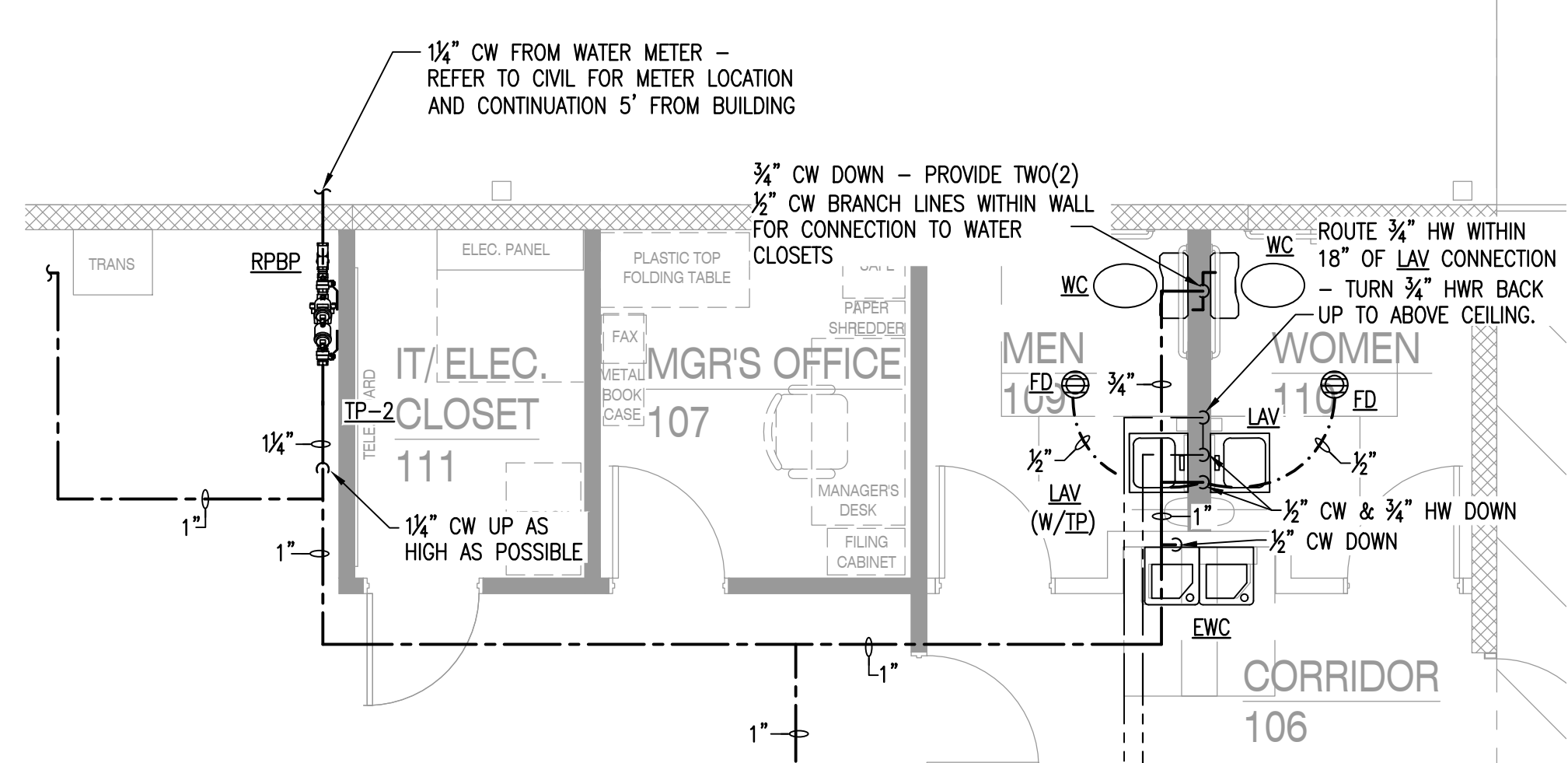
CONSTRUCTION NOTES

- 1 TURN 3/4" CW DOWN TIGHT TO EXTERIOR WALL - PROVIDE ISOLATION SHUT-OFF VALVE MOUNTED AT 9'-6" A.F.F. - EXTEND DOWN WITHIN STICK BUILD WALL. NO PIPES ALLOWED TO BE SURFACED MOUNTED AND EXPOSED INSIDE OF DRESSING ROOM WALLS.
2 TURN 3/4" CW DOWN WITHIN 18" OF BUILDING CORNER.
3 CONNECT HOSE BIBB TO HOSE REEL USING 3/4" RUBBER TUBING WITH ADEQUATE SLACK FOR HOSE REEL TO PIVOT AND ROTATE FREELY. THE 3/4" PIPING FOR HOSE REEL SHOULD BE INSULATED AND MOUNTED/SUSPENDED TO GARDEN CENTER TRUSS FRAMING SYSTEM.

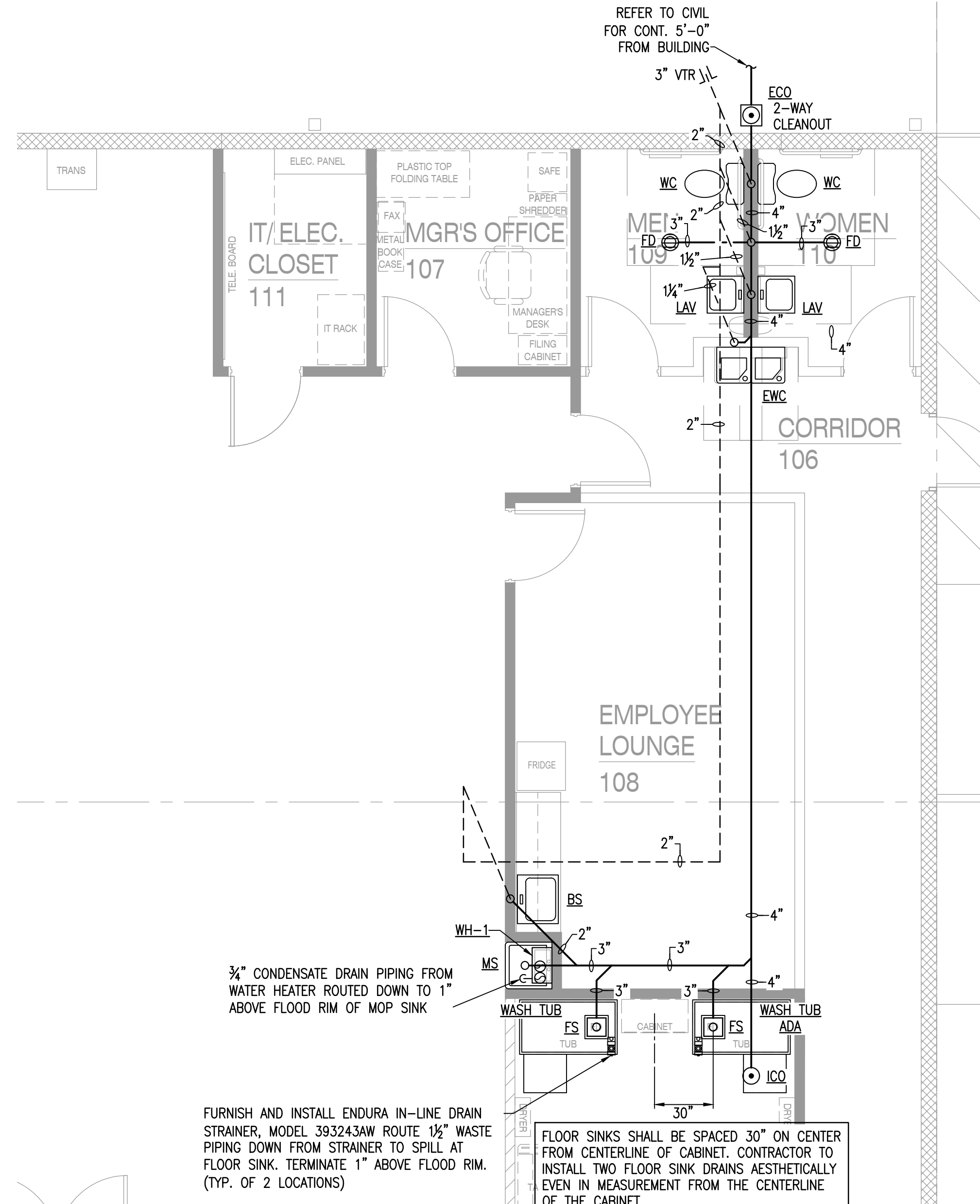
UTILITY INFORMATION

Table with utility information including water and natural gas providers and addresses.

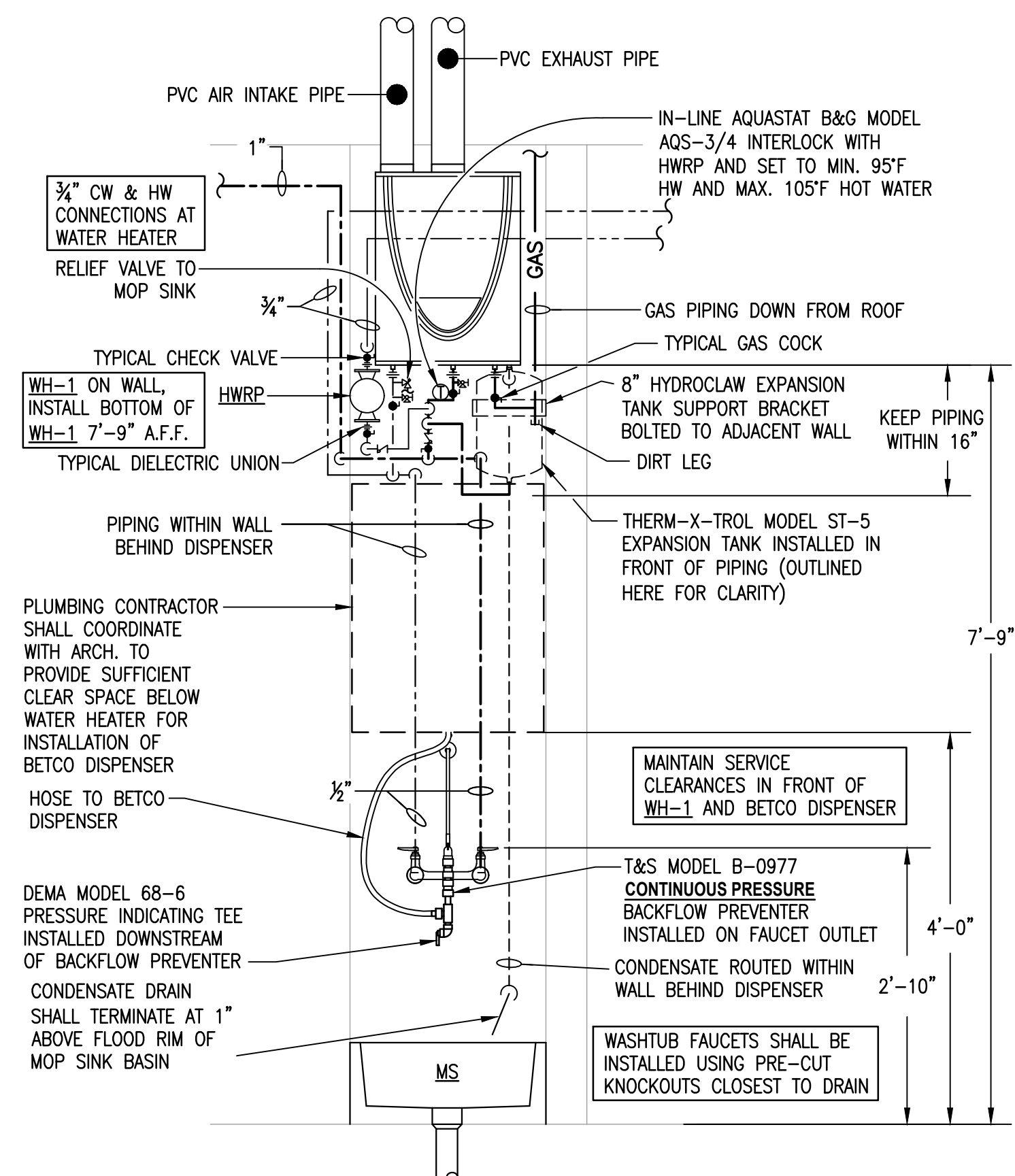
PLUMBING FIXTURE LEGEND table with symbols and descriptions for various plumbing fixtures like cold water, hot water, gas, and cleanouts.



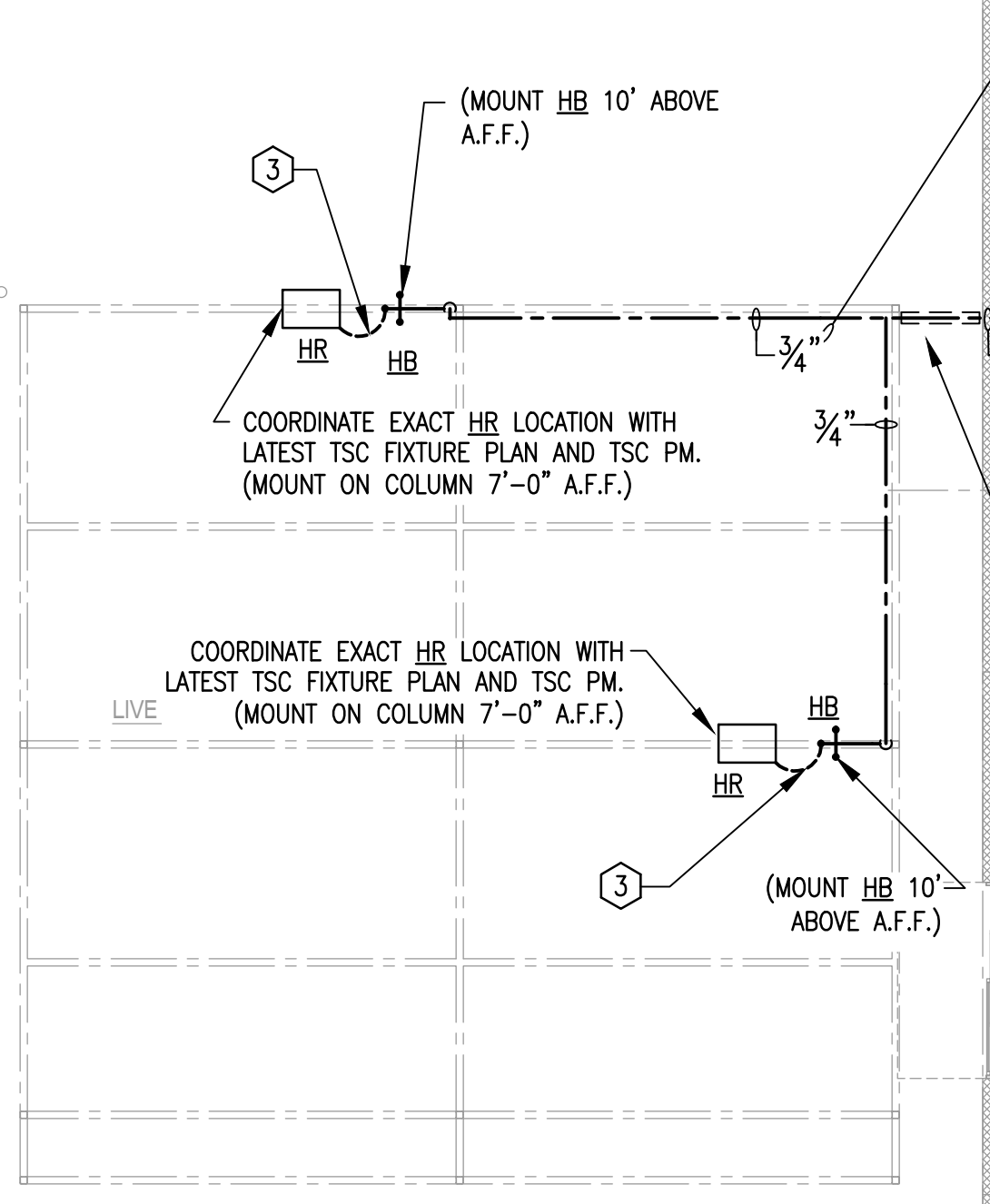
ENLARGED PLUMBING PLAN: WATER SCALE: 1/4" = 1'-0"



ENLARGED PLUMBING PLAN: WASTE/VENT SCALE: 1/4" = 1'-0"

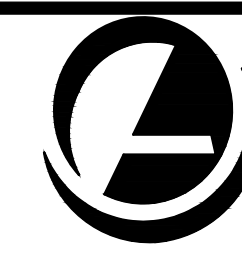


INSTANTANEOUS WATER HEATER ABOVE MOP SINK DETAIL - ELEVATION VIEW SCALE: 3/4" = 1'-0"



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

Schelton Engineering logo and contact information including address and phone number.



OXFORD ARCHITECTURE

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PLUMBING FIXTURE SCHEDULE

Table with columns: MARK, DESCRIPTION, UTILITIES (CW, HW, DR, VENT). Lists fixtures like Water Closet, Lavatory, Breakroom Sink, Electric Water Cooler, Mop Sink, Water Heater, Floor Drain, Trap Primer, Water Hammer Arresters, Hose Bibbs, Floor Sinks, Wash Tubs, Reduced Pressure Backflow Preventer, Hot Water Recirculation Pump, and Hose Reel.

WASTE & WATER FIXTURE LOAD CALCULATIONS

Table with columns: FIXTURE TAG, FIXTURE/EQUIPMENT, QUANTITY, WATER (CW F.U., HW F.U., TOTAL F.U.), WASTE (TOTAL F.U.). Includes a summary row for MAXIMUM WATER DEMAND and MAXIMUM WASTE DEMAND.

GAS CONNECTION SCHEDULE

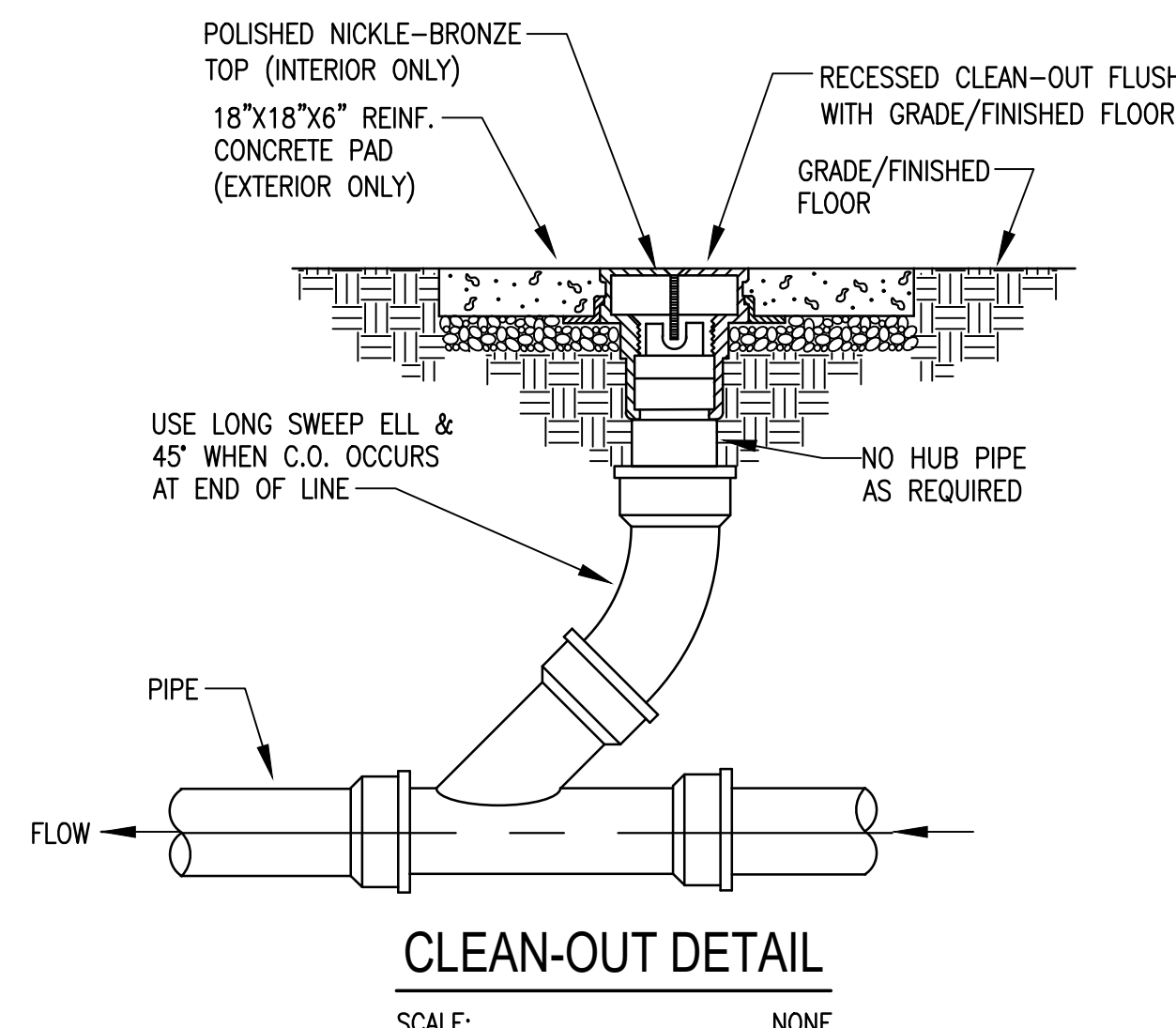
Table with columns: EQUIPMENT, LOAD. Lists equipment like RTU-1 through RTU-5, WH-1, and Total New Connected Load. Includes notes on gas line sizing and inlet pressure.

Block Spacing Chart (Metal Pipe) table with columns: PIPE SIZE, MAX SPACING. Lists spacing for 1/2", 2", 3" pipe sizes.

NOTE: NO WOOD ALLOWED FOR PIPE SUPPORTS.

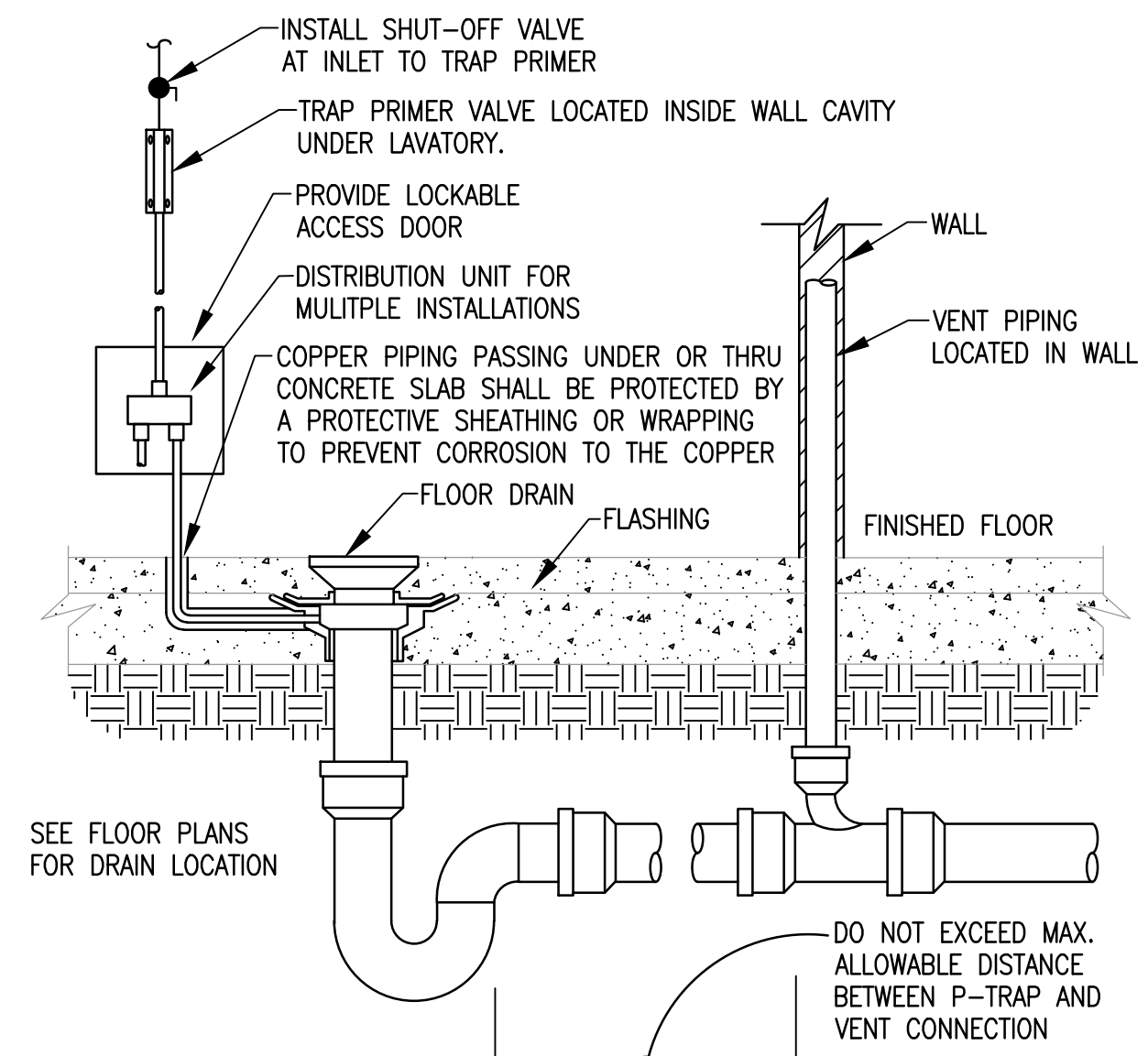
GAS PIPE SUPPORT DETAIL

SCALE: NONE



CLEAN-OUT DETAIL

SCALE: NONE

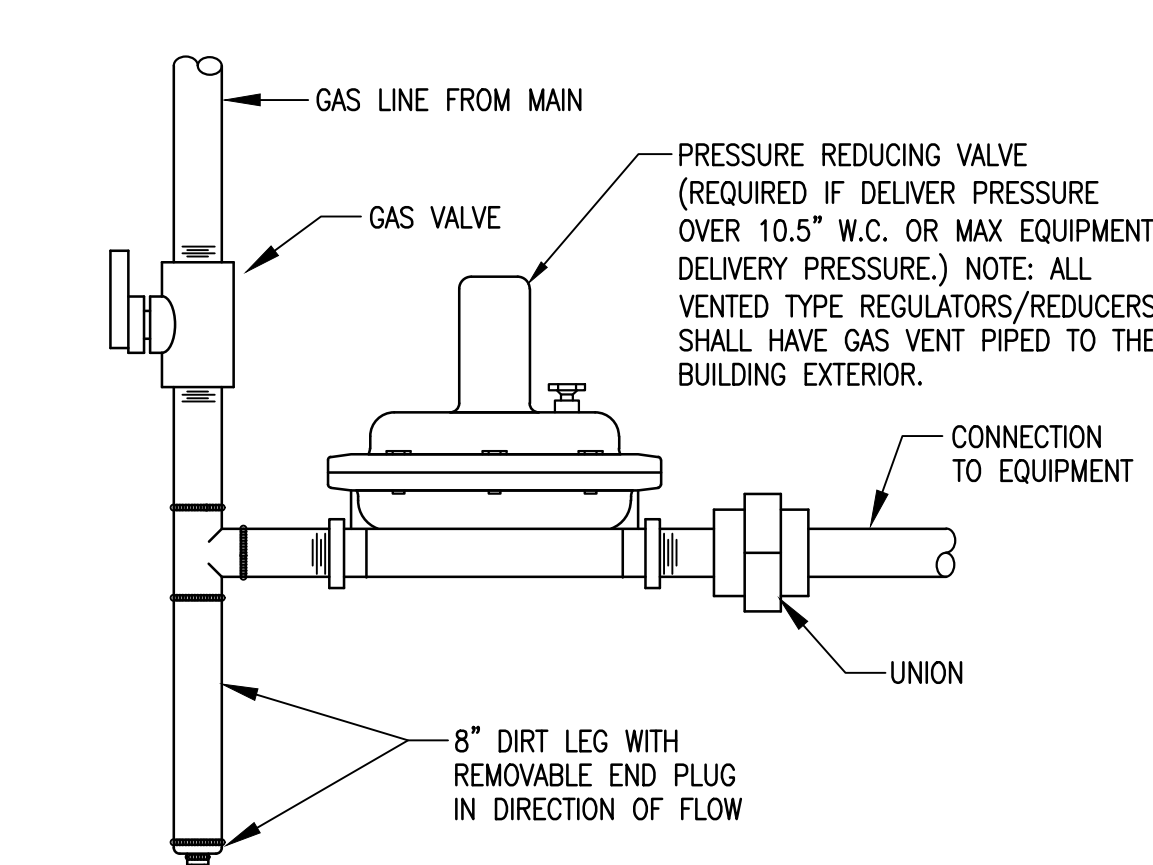


FLOOR DRAIN DETAIL

SCALE: NONE

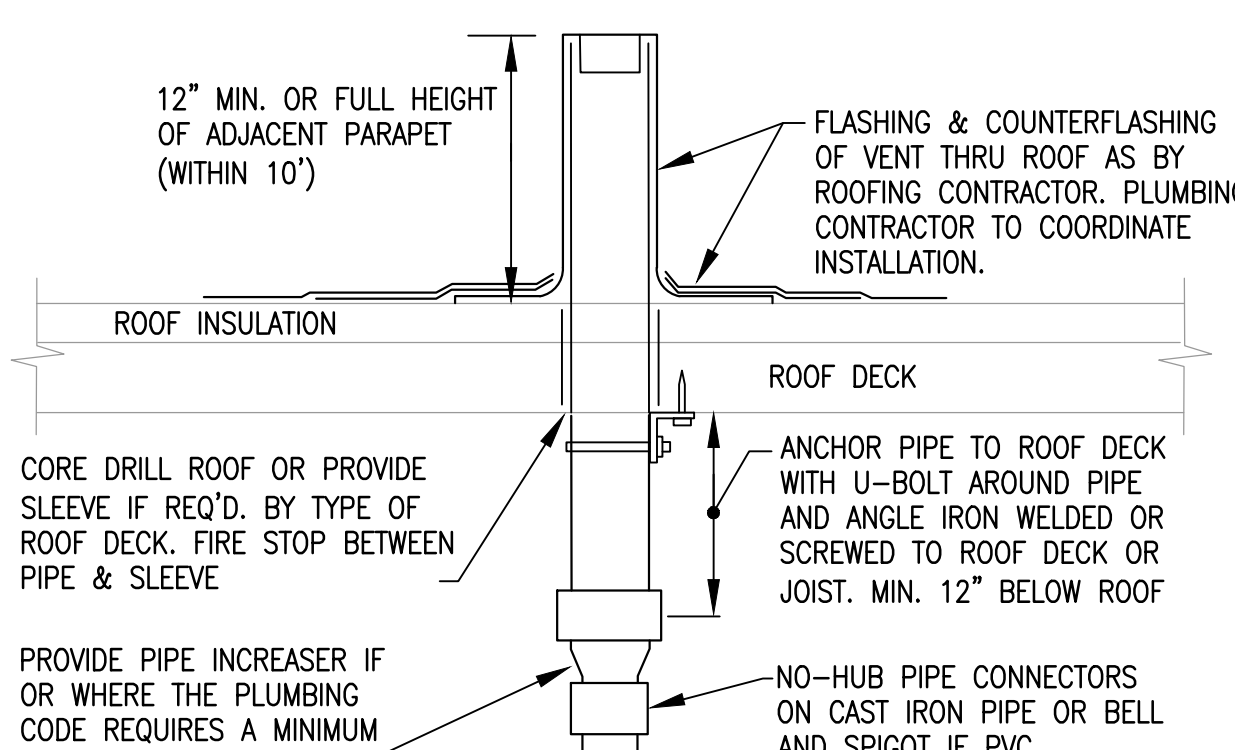
TYPICAL GAS CONNECTION DETAIL

SCALE: NONE



VENT THRU ROOF - VTR

SCALE: NONE



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MIN. THREE FEET FROM PROPERTY LINE...

PIPE HANGER - BAR JOIST

SCALE: NONE

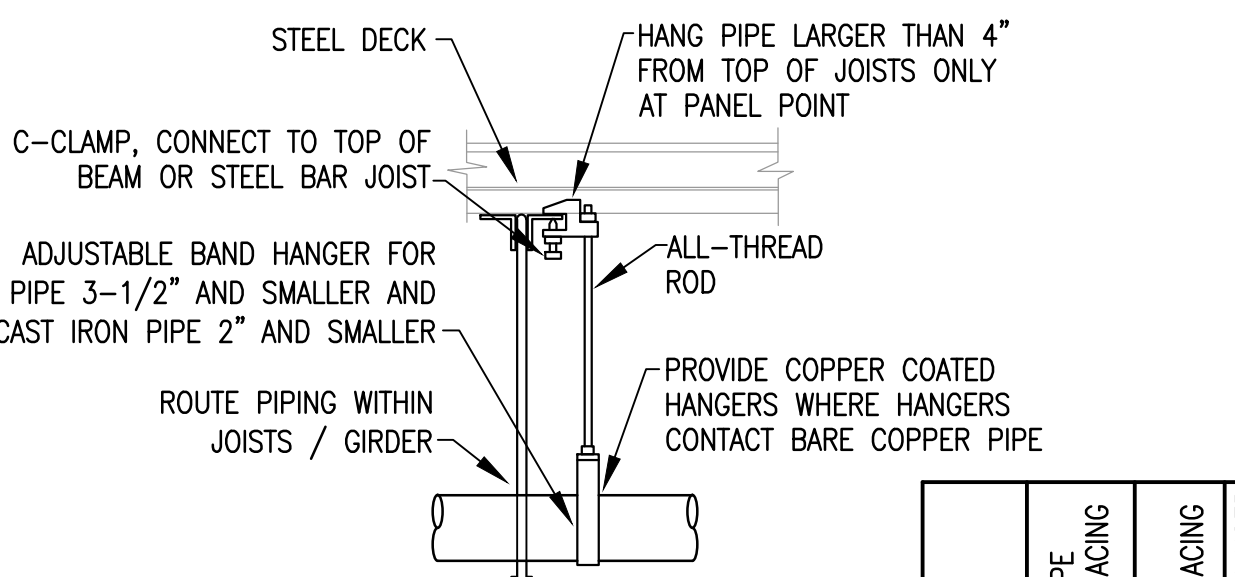
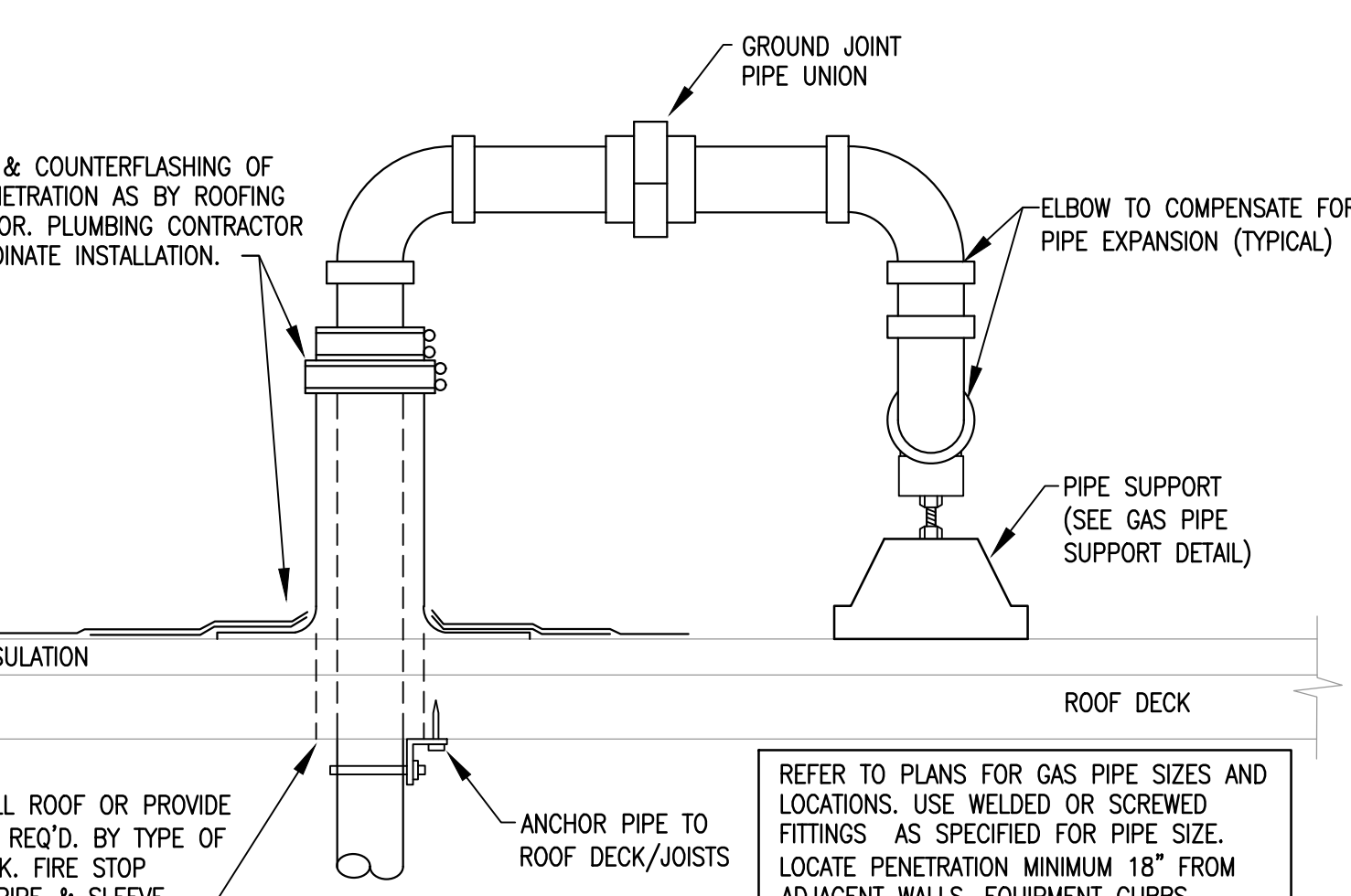


Table with columns: PIPE SIZE, COPPER PIPE HANGER SPACING, STEEL PIPE HANGER SPACING, PVC PIPE HANGER SPACING. Lists spacing for various pipe sizes.

PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION...

GAS PIPING ROOF PENETRATION

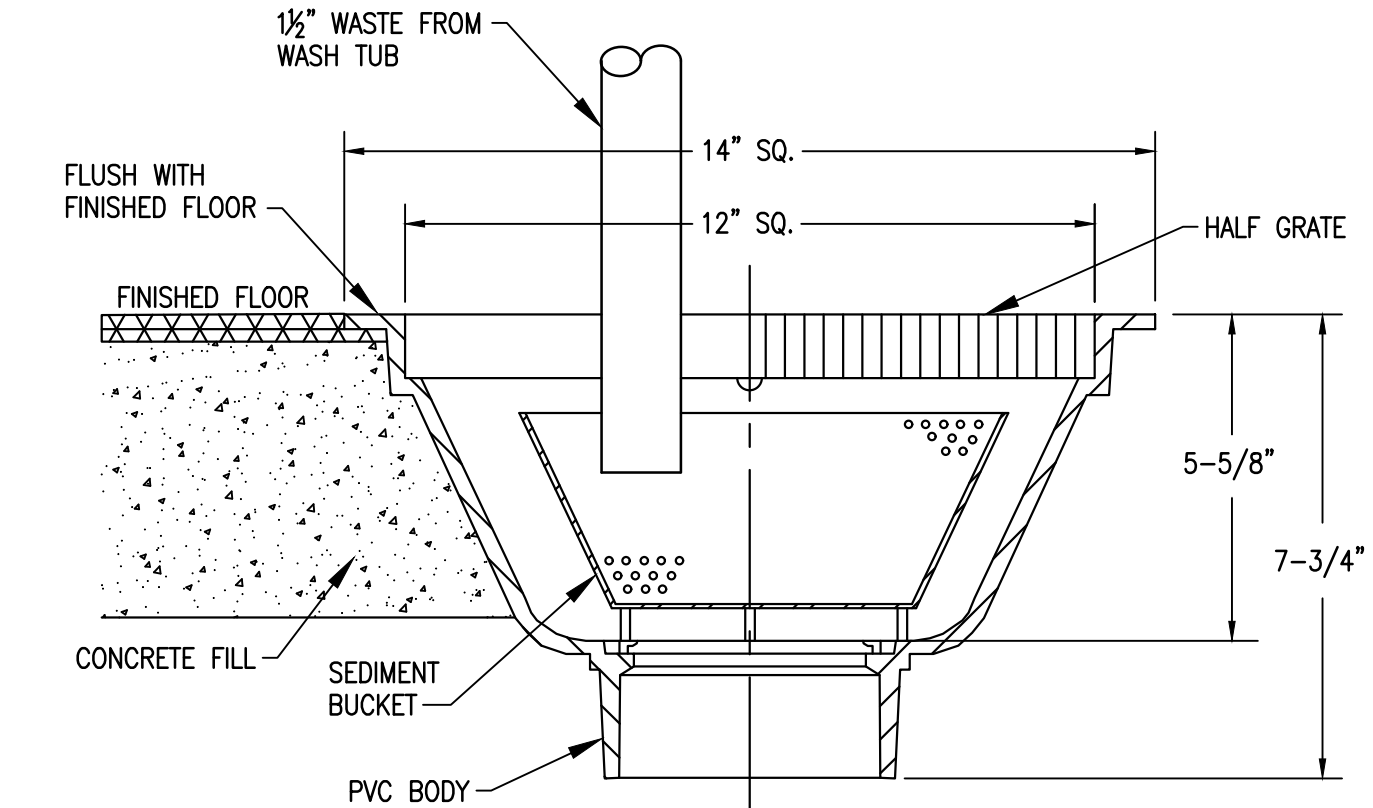
SCALE: NONE



REFER TO PLANS FOR GAS PIPE SIZES AND LOCATIONS. USE WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE.

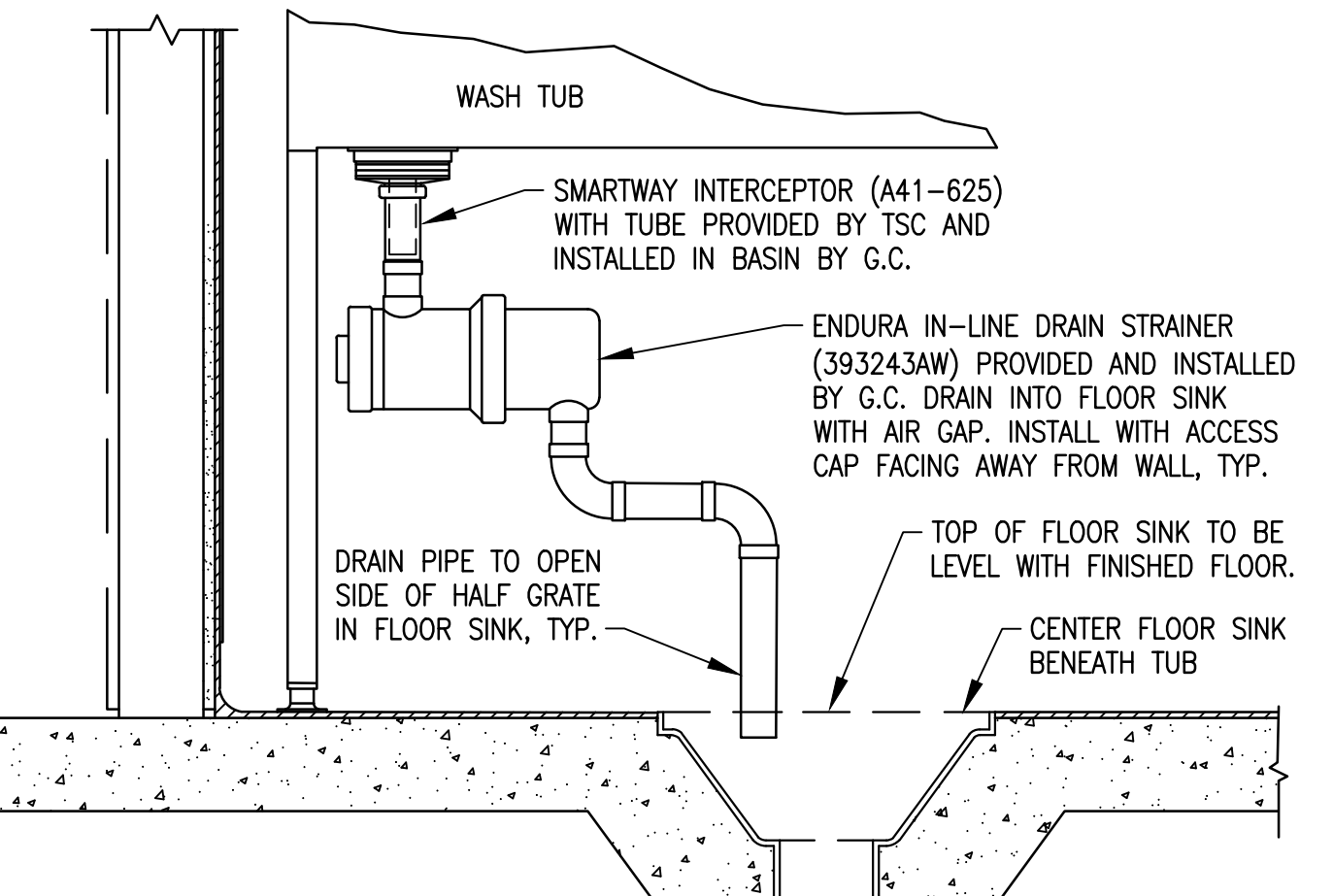
FLOOR SINK DETAIL

SCALE: NONE



WASH TUB AT FLOOR SINK

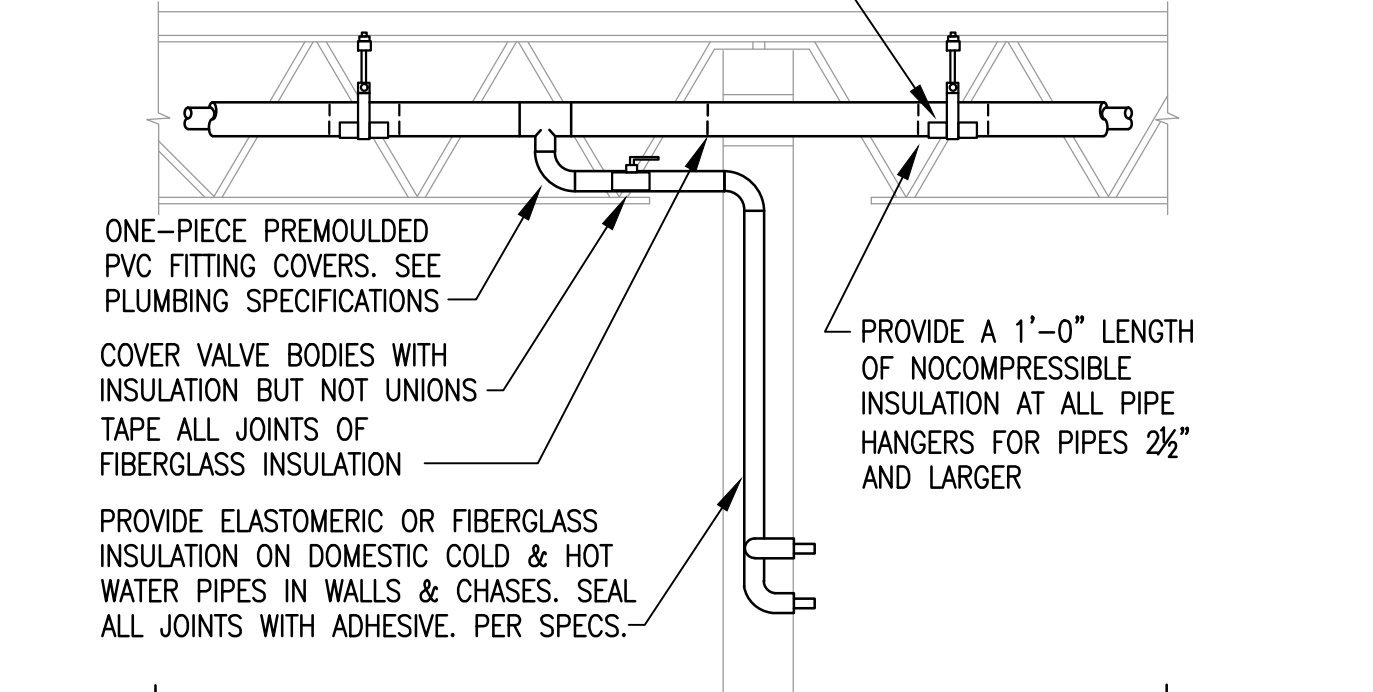
SCALE: NONE



PROVIDE GALVANIZED STEEL SHIELD FOR ALL INSULATED PIPE. VERIFY INSULATION THICKNESS WHEN SIZING HANGERS AND SHIELDS.

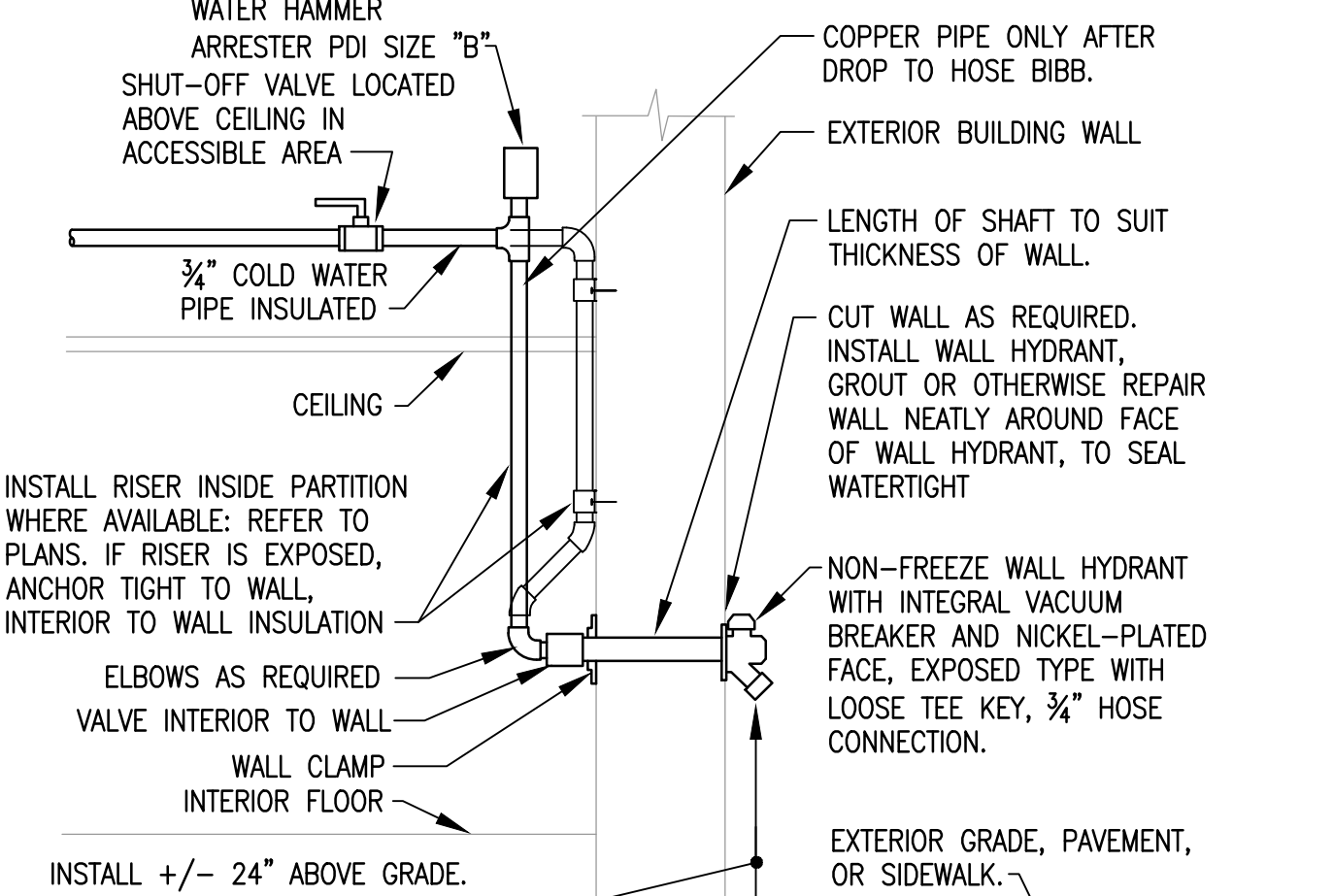
PIPE INSULATION - BAR JOIST

SCALE: NONE



NON-FREEZE WALL HYDRANT

SCALE: NONE



WATER HAMMER ARRESTERS

SCALE: NONE

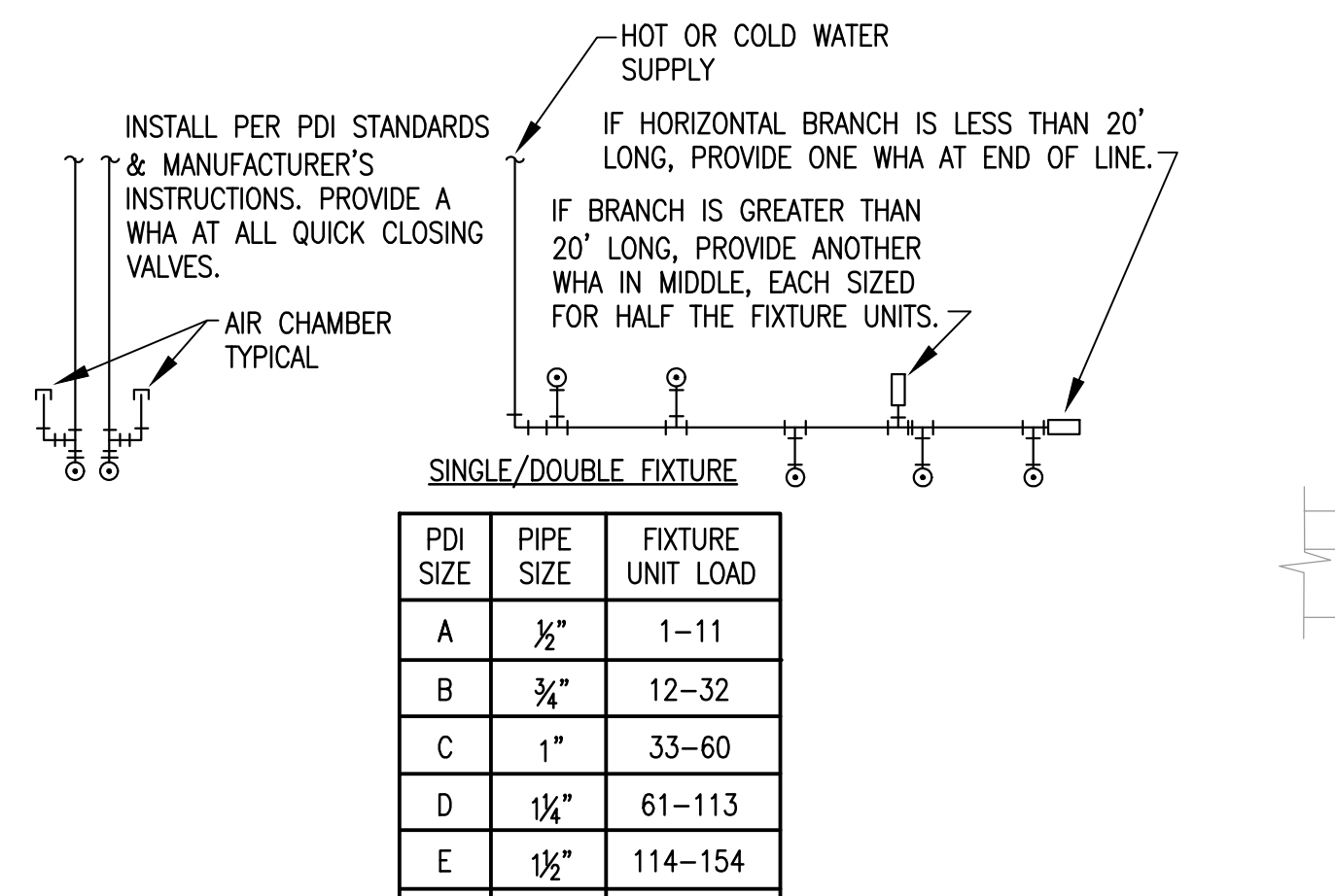


Table with columns: PDI SIZE, PIPE SIZE, FIXTURE UNIT LOAD. Lists PDI sizes A through F and their corresponding pipe sizes and fixture unit loads.

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Job Number: 2360

Date: 03.22.2024

Revisions:

Revisions:

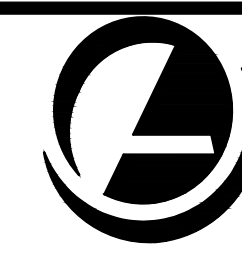
Revisions:

PLUMBING SCHEDULES AND DETAILS

Sheet Number: P2.0



1163 West Main St. Franklin, TN 37064. Tel: 615.736.9111. Fax: 615.234.3599. gary@scheltonengineering.com. Project #24-027



PLUMBING SPECIFICATIONS

PART 1 GENERAL

- 1. 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 PLUMBING CODE, INTERNATIONAL ENERGY CONSERVATION CODE, NFPA-90A, NFPA-101, NFPA-54. 2. OBTAIN AND PAY FOR ALL REQUIRED PERMITS, INSPECTION FEES, TAPPING FEES, CONNECTION CHARGES, AND UTILITY COMPANY SERVICE CHARGES. 3. INSTALLATION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. 4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL LABOR AND INSTALL ALL MATERIAL CALLED FOR IN THE CONTRACT DOCUMENTS PER LOCAL CODE REQUIREMENT AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. 5. THE CONTRACTOR'S INSTALLATION SHALL INCLUDE ALL REQUIRED ROUGH-INS, DUCTWORK, PIPING OR ELECTRICAL WIRING INCLUDING DEVICES (GAGES, VALVES, DISCONNECTS, STARTERS, ETC.) NEEDED FOR ALL SYSTEMS TO BE COMPLETE AND FULLY OPERATIONAL WHETHER OR NOT SHOWN OR NOTED ON THE CONTRACT DOCUMENTS. 6. THE CONTRACTOR'S BID SHALL INCLUDE ALL SUCH ITEMS REASONABLY INFERRED OR REQUIRED FOR COMPLETE SYSTEMS, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER PROMPTLY OF ANY CONFLICT BETWEEN BUILDING CODES AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE CONTRACT DOCUMENTS. 7. NO DEVIATIONS OR ADJUSTMENTS SHALL BE MADE TO THE CONTRACT DOCUMENTS WITHOUT COORDINATION AND THE APPROVAL OF THE DESIGN ENGINEER. ANY SUCH APPROVED DEVIATIONS OR ADJUSTMENTS TO THE CONTRACT DOCUMENTS SHALL BE MARKED ON A SET OF RECORD DRAWINGS BY THE CONTRACTOR. THE RECORD AS-BUILT DRAWINGS SHALL BE TURNED OVER TO THE DESIGN ENGINEER AT THE COMPLETION OF CONSTRUCTION.

PART 2 PRODUCTS

- 1. ALL PIPING AND FITTINGS FOR THE DOMESTIC WATER SYSTEM SHALL BE CERTIFIED BY THE UNDERWRITERS LABORATORY TO MEET THE ANSI NSF, 61 SECTION 9 STANDARD. 2. ALL PIPING INSIDE THE BUILDING AND BELOW SLAB TO 5'-0" OUTSIDE THE BUILDING SHALL BE ASTM F796 APPROVED CROSSLINKED POLYETHYLENE (PEX) TUBING WITH A MINIMUM CLASS 1006 CHLORINE RESISTANCE RATING, WATTS, ZURNER, OR NIBCO. FITTINGS SHALL BE BARBED CRIMP PIPING OR QUICK CONNECT FITTINGS, WATTS, ZURNER, OR NIBCO. EXPOSED PIPING INSIDE SHALL BE 10' OR 20' STOCKS. ROLLS MAY BE USED IN WALLS NOT EXPOSED AND UNDERSLAB. ALL PIPING (PEX) UNDER INTERIOR SLAB SHALL BE SLEEVED. NO FITTINGS SHALL BE PERMITTED UNDER GROUND. OR ALL DOMESTIC WATER PIPING INSIDE THE BUILDING ABOVE SLAB SHALL BE TYPE "L" HARD COPPER. DOMESTIC WATER PIPING BELOW SLAB AND TO 5'-0" OUTSIDE SHALL BE TYPE "K" SOFT SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. COPPER PIPE FITTINGS SHALL BE SWEATED JOINT WROUGHT COPPER SWEEP PATTERN FITTINGS, SOLDERED USING 95-5 LEAD-FREE SOLDER.

- 3. ALL SANITARY WASTE AND VENT PIPING INSIDE AND UNDERSLAB TO 5'-0" OUTSIDE THE BUILDING SHALL BE SCHEDULE 40 PVC, DWV OR SERVICE WEIGHT CAST IRON WITH DRAINAGE FITTINGS. 4. JOINT FOR PVC SANITARY WASTE AND VENT PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB TO 5'-0" OUTSIDE THE BUILDING. JOINTS FOR CAST IRON PIPE SHALL BE NO-HUB TYPE ABOVE, SLAB ON GRADE AS MANUFACTURED BY CLAMP-ALL OR ANACO HUSKY. CAST IRON SOIL PIPING INSTITUTE NO-HUB, DOUBLE BAND CONNECTORS SHALL NOT BE ALLOWED. JOINTS FOR CAST IRON PIPE BELOW SLAB OR GRADE SHALL BE NEOPRENE PUSH-ON TYPE. 5. HANGERS: PIPE SIZES 1/2" TO 1-1/2": ADJUSTABLE WROUGHT STEEL LOOP (COPPER, ELECTROPLATE IF APPLICABLE). 6. HANGERS: PIPE SIZES 2" AND UP: ADJUSTABLE WROUGHT STEEL CLEWS (COPPER, ELECTROPLATE IF APPLICABLE). 7. MULTIPLE OR TRAPEZE HANGERS: STEEL CHANNELS WITH WELDED SPACERS AND HANGER RODS. 8. PROVIDE STEEL HANGER RODS, THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUS THREADED AS REQUIRED. 9. INSULATE DOMESTIC HOT AND COLD WATER PIPING WITH FIBERGLASS INSULATION WITH MOLDED FIBERGLASS PIPE COVERING AND CONTINUOUS VAPOR AS MANUFACTURED BY MANVILLE CORPORATION, OWENS-CORNING, KNAUF, OR CERTAINTED. OR INSULATE (PEX) PIPING WITH SELF SEALING ELASTOMERIC RUBBER INSULATION. SEAL ENDS WITH CONTACT ADHESIVE AND TAPE PER MANUFACTURER'S RECOMMENDATIONS.

- 10. INSULATE ALL DOMESTIC HOT WATER PIPING WITH 1" THICK INSULATION. INSULATE ALL DOMESTIC COLD WATER PIPING WITH 1/2" THICK INSULATION. 11. INSULATE ALL DOMESTIC WATER PIPING BELOW SLAB AND TO 5'-0" OUTSIDE THE BUILDING WITH 1/2" ARMAFLEX. 12. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NO GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. 13. ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. ALL GAS PIPING INSTALLED OUTDOORS SHALL BE COATED WITH A CORROSION RESISTANT PAINT. PAINT COLOR SHALL BE ORANGE OR YELLOW. 14. CONCRETE ANCHORS (WEDGE ANCHORS) SHALL BE ZINC-PLATED CARBON STEEL WEDGE ANCHORS AVAILABLE IN ANCHOR/DRILL SIZES 1/4" TO 3/4" AND LENGTHS OF 1-3/4" THROUGH 12", MEETING U.S. GOVERNMENT G.S.A. SPECIFICATIONS FF-5-325 GROUP II, TYPE 4, CLASS 1, FOR FASTENING PLUMBING SYSTEMS TO CONCRETE AND PIPE HANGING. ITW RAMSET/RED HEAD BRAND OR APPROVED EQUAL. 15. NATURAL GAS REGULATORS SHALL BE MAXITROL 325 SERIES OR EQUAL. 16. ACCEPTABLE FIXTURE MANUFACTURERS

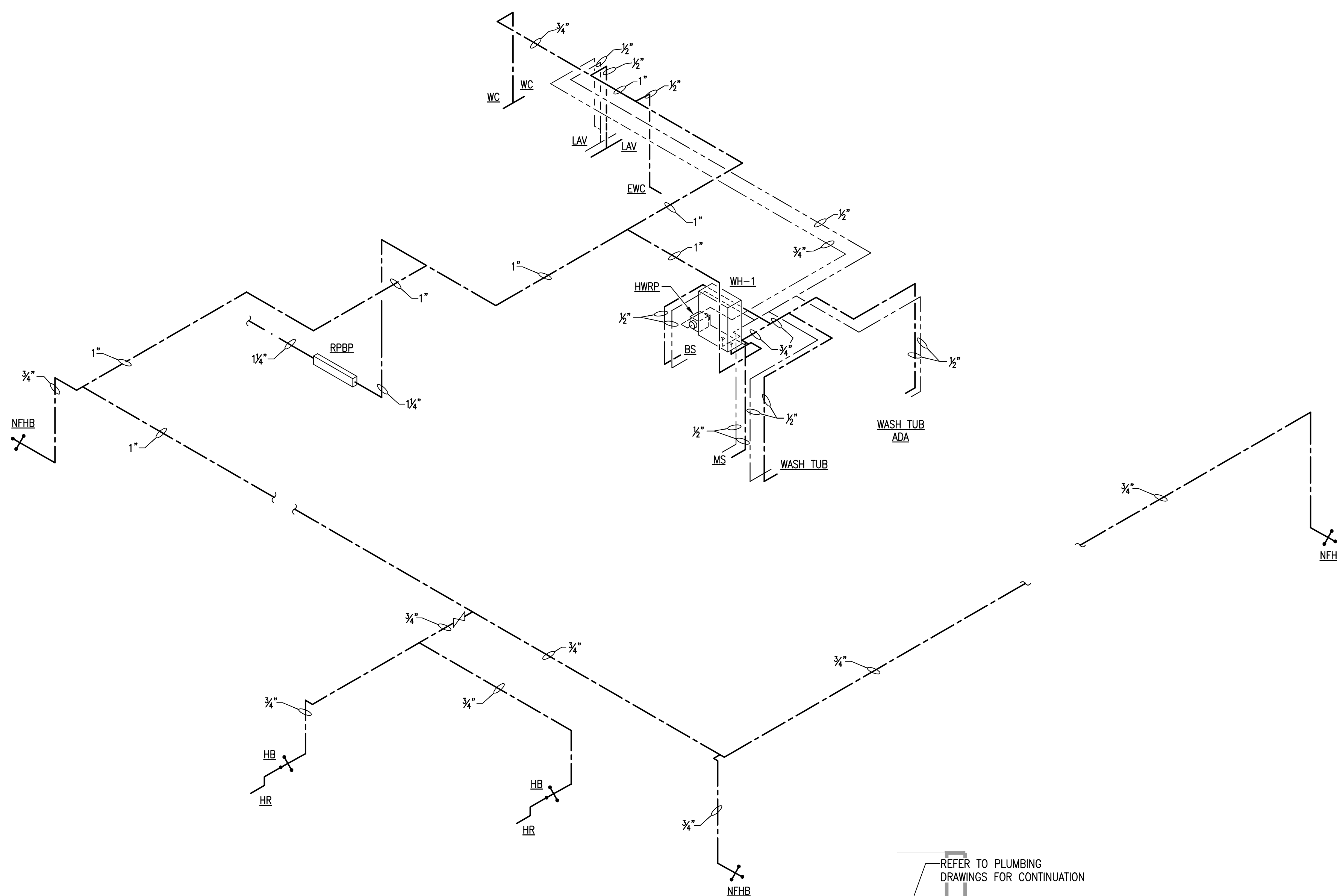
- 6. SUPPORT HORIZONTAL PIPING AS FOLLOWS: REFER TO IPC 2009 TABLE 308.5 FOR HANGER SPACING REQUIREMENTS.

Table with 3 columns: NOMINAL PIPE SIZE (IN.), HANGER ROD DIAMETER (IN.), and HANGER ROD DIAMETER (IN.). Rows include 1/2, 3/4 TO 1-1/4, 1-1/2 TO 2, 2-1/2 TO 3, 4, 6, 8 AND UP.

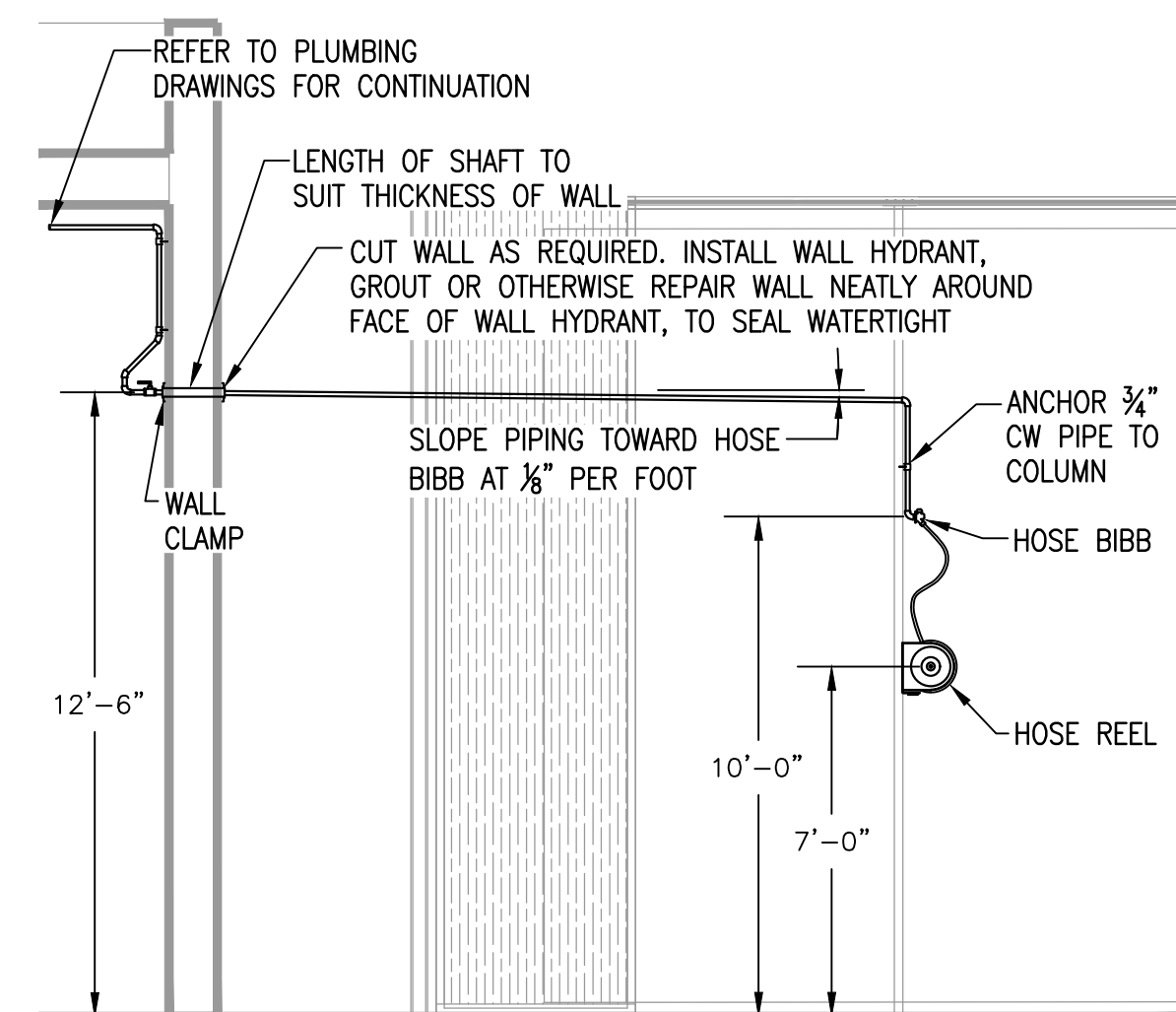
- 7. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING. 8. HANGERS SHALL BE ATTACHED TO STRUCTURAL STEEL WORK BY CLAMPING OR OTHER APPROVED METHODS, EXCEPT THAT STRUCTURAL WORK SHALL NOT BE DRILLED AND PUNCHED. 9. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT AND LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. 10. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE INSULATION AS THE PIPING OR WITH HYDRAULIC SETTING CEMENT, BUILT UP TO THE SAME THICKNESS AS LINES. COVER SHALL BE SAME AS ADJACENT PIPING OR PVC PREFORMED JACKET. 11. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. 12. SEAL ALL PENETRATIONS OF RATED PARTITIONS WITH U.L. RATED FIRE BARRIER MATERIAL. 13. AIR ADMITTANCE VALVES SHALL NOT BE ALLOWED ON SANITARY WASTE AND VENT SYSTEMS.

PART 3 EXECUTION

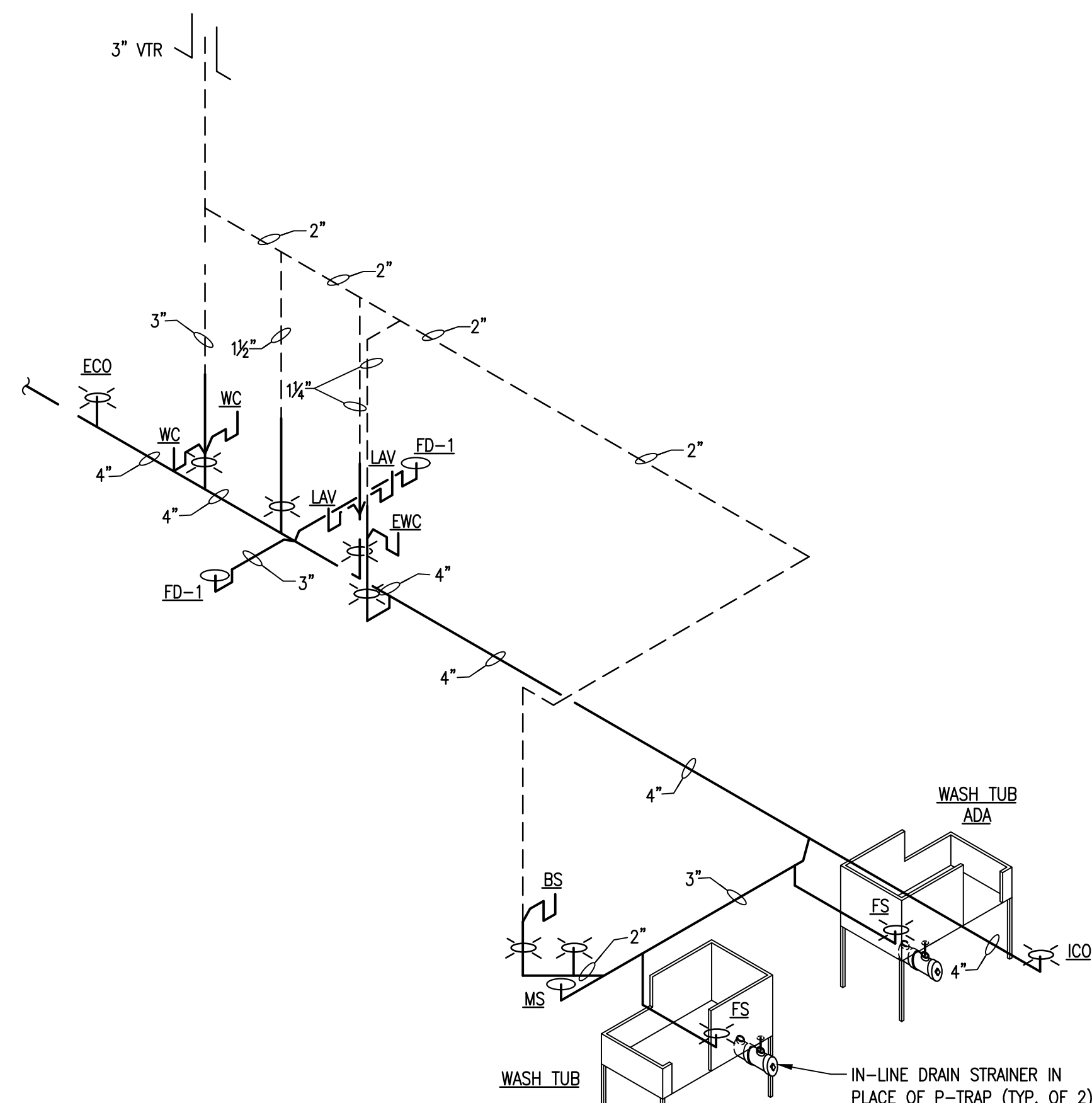
- 1. EXCAVATION, BACKFILLING AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH O.S.H.A. AND EXISTING SAFETY STANDARDS. A. PROVIDE SHORING AND CLEANING NECESSARY TO KEEP TRENCHES IN WORKING CONDITIONS, INCLUDING PUMPING OUT WATER. B. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO AT LEAST 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE. GRAVEL SHALL BE SCOOPED OUT UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM. C. IN MOSTLY EARTH OR SAND MATERIAL, THE LAST 6" OF EXCAVATION SHALL BE DONE BY HAND. TRENCH BOTTOM SHALL BE SCOOPED OUT AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM. D. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". THE REST OF THE FILL UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS: WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE DONE IN LAYERS OF NOT MORE THAN 8" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL. E. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION. 2. EXPOSED HOT AND COLD WATER TRIM IN FINISHED AREAS SHALL BE CHROME FINISHED. 3. ALL HORIZONTAL AND VERTICAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODE RECOMMENDATIONS. SUPPORTS SHALL SECURELY HOLD PIPING, PREVENT VIBRATION, COMPENSATE FOR ALL STATIC AND OPERATIONAL CONDITIONS OF THE VARIOUS SYSTEMS AND SHALL NOT BE SUBJECT TO ELECTROLYTIC ACTION. THIS SHALL BE ACCOMPLISHED BY USING THE SUMMER SYSTEM, THE POSIFIX, STAFIX, PIPEFIX OR CHANNEL. 4. WATER HAMMER ARRESTERS SHALL BE INSTALLED ON ALL HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR QUICK CLOSING VALVES SUCH AS DISHWASHERS, CLOTHES WASHERS, AND OTHER EQUIPMENT, BETWEEN THE LAST TWO FIXTURES. SHOCK ABSORBERS SHALL BE MOUNTED IN THEIR VERTICAL POSITION. 5. SANITARY WASTE AND VENT PIPING SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR PIPE LARGER THAN 3" IN DIAMETER.



DOMESTIC WATER RISER SCALE: NONE

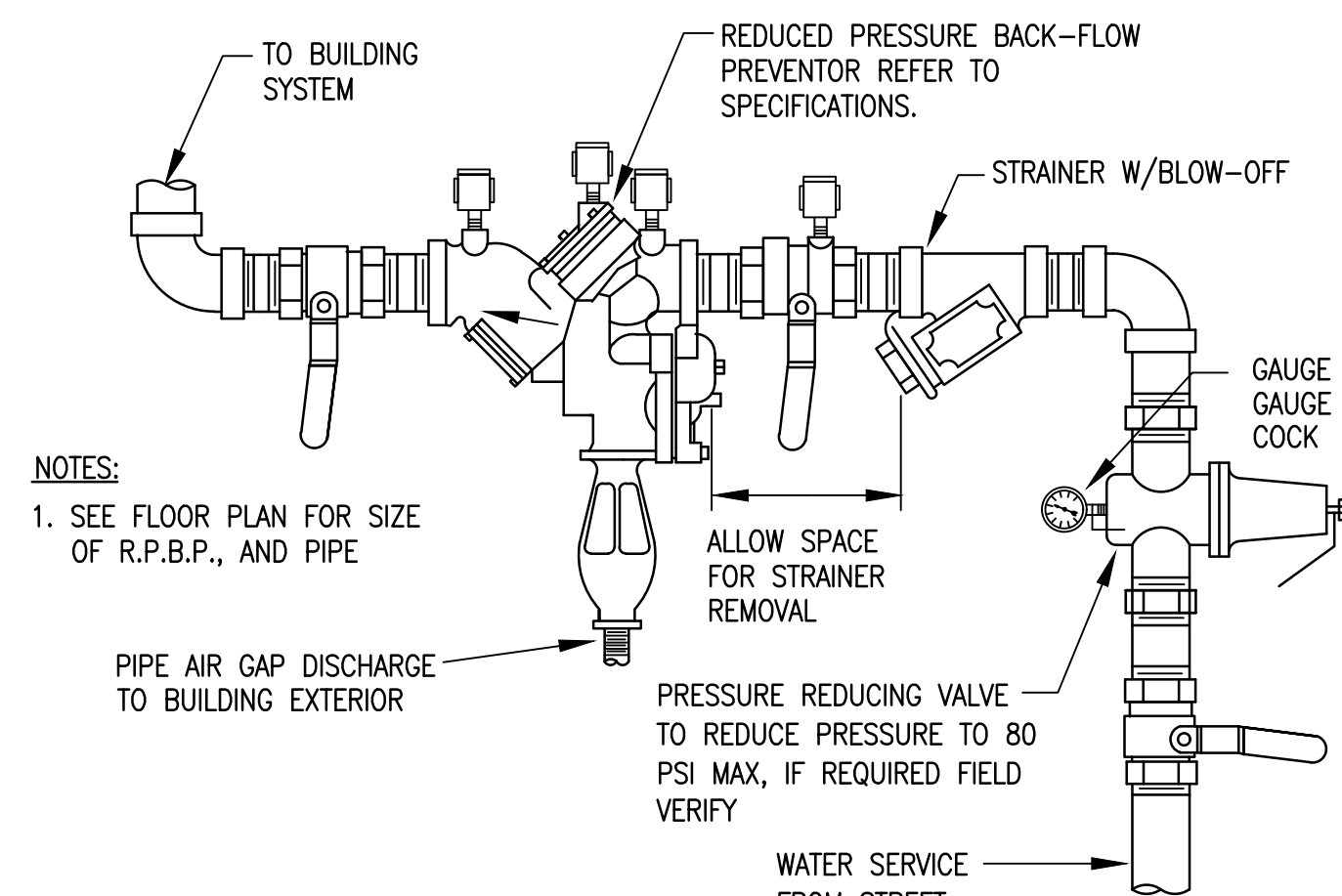


LIVE GOODS CENTER HOSE REEL AND HOSE BIBB SERVICE PIPING DETAIL SCALE: NONE

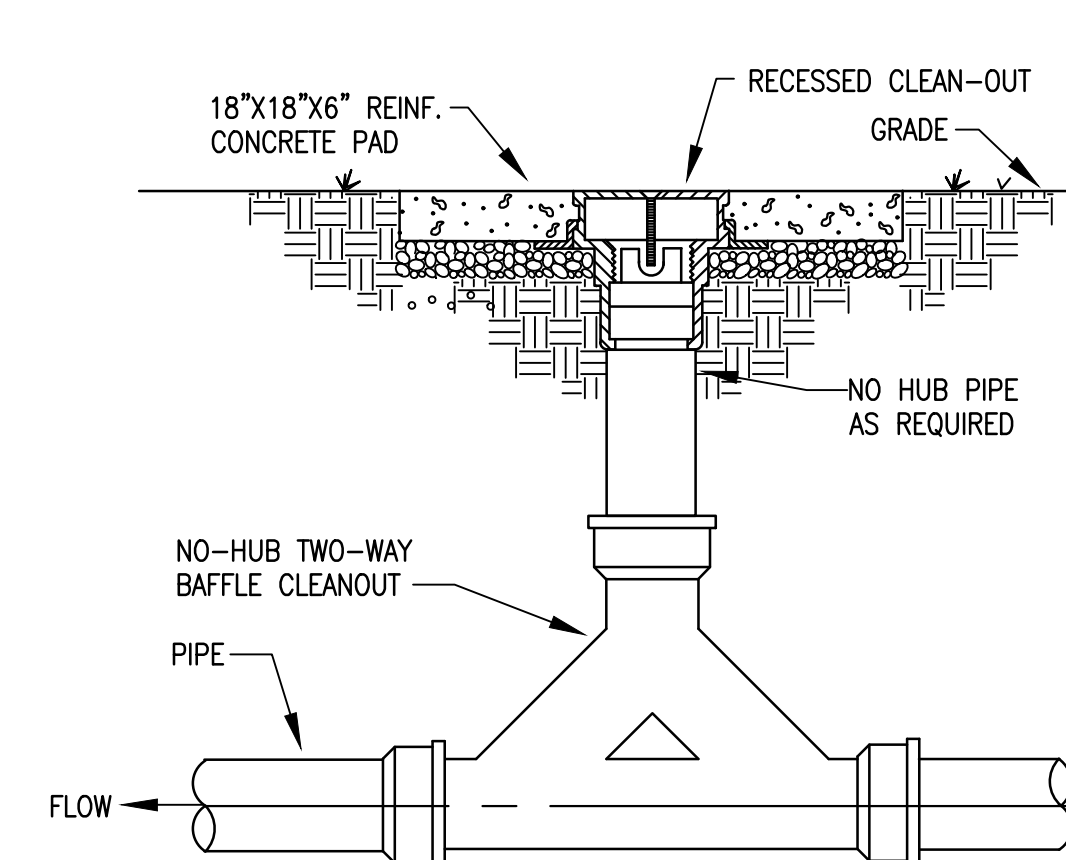


WASTE & VENT RISER SCALE: NONE

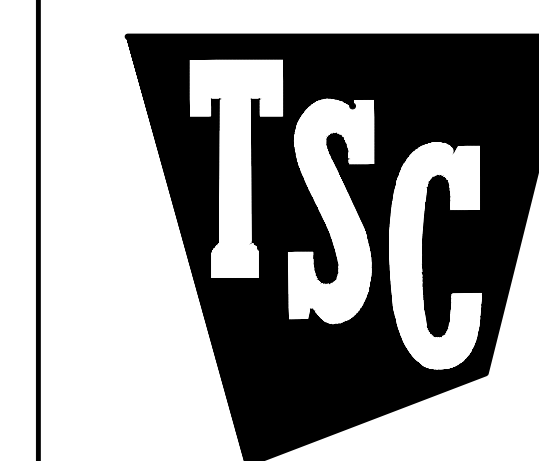
NOTE: REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL PIPE SIZES



REDUCED PRESSURE BACKFLOW PREVENTER DETAIL SCALE: NONE



EXTERIOR TWO-WAY CLEAN-OUT SCHEMATIC SCALE: NONE



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Job Number: 2360

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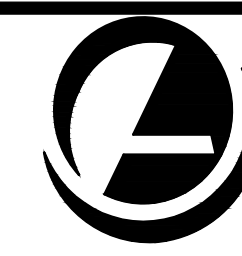
Revisions:

Revisions:

Revisions:

PLUMBING RISERS AND SPECIFICATIONS

Sheet Number: P3.0



SPRINKLER INTENT INFORMATION			
	SALES AREA	OFFICE AREA AND PET WASH	STOCKROOM AREA
ZONE CLASSIFICATION **	ORDINARY HAZARD GROUP 2	LIGHT HAZARD	MISCELLANEOUS STORAGE <12' CLASS III COMMODITIES * ORDINARY HAZARD GROUP 2
DENSITY	.20 GPM/ SQ. FT.	.10 GPM/ SQ. FT.	.20 GPM/ SQ. FT.
COVERAGE AREA	1500 SQ. FT.	1500 SQ. FT.	1500 SQ. FT.
COVERAGE PER SPRINKLER	130 SQ. FT.	225 SQ. FT.	130 SQ. FT.
DISCHARGE TEMPERATURE	165°F	165°F	165°F
MAXIMUM HEAD SPACING	15 FT.	15 FT.	15 FT.
HOSE STREAM ALLOWANCE	250 GPM	100 GPM	250 GPM

COMMENTS:
 * COMMODITY CLASS REDUCED TO CLASS III BASED ON STORAGE OF LESS THAN 10 PALLET OF CLASS IV COMMODITIES.
 ** ZONE CLASSIFICATION SUBJECT TO AUTHORITY HAVING JURISDICTION.

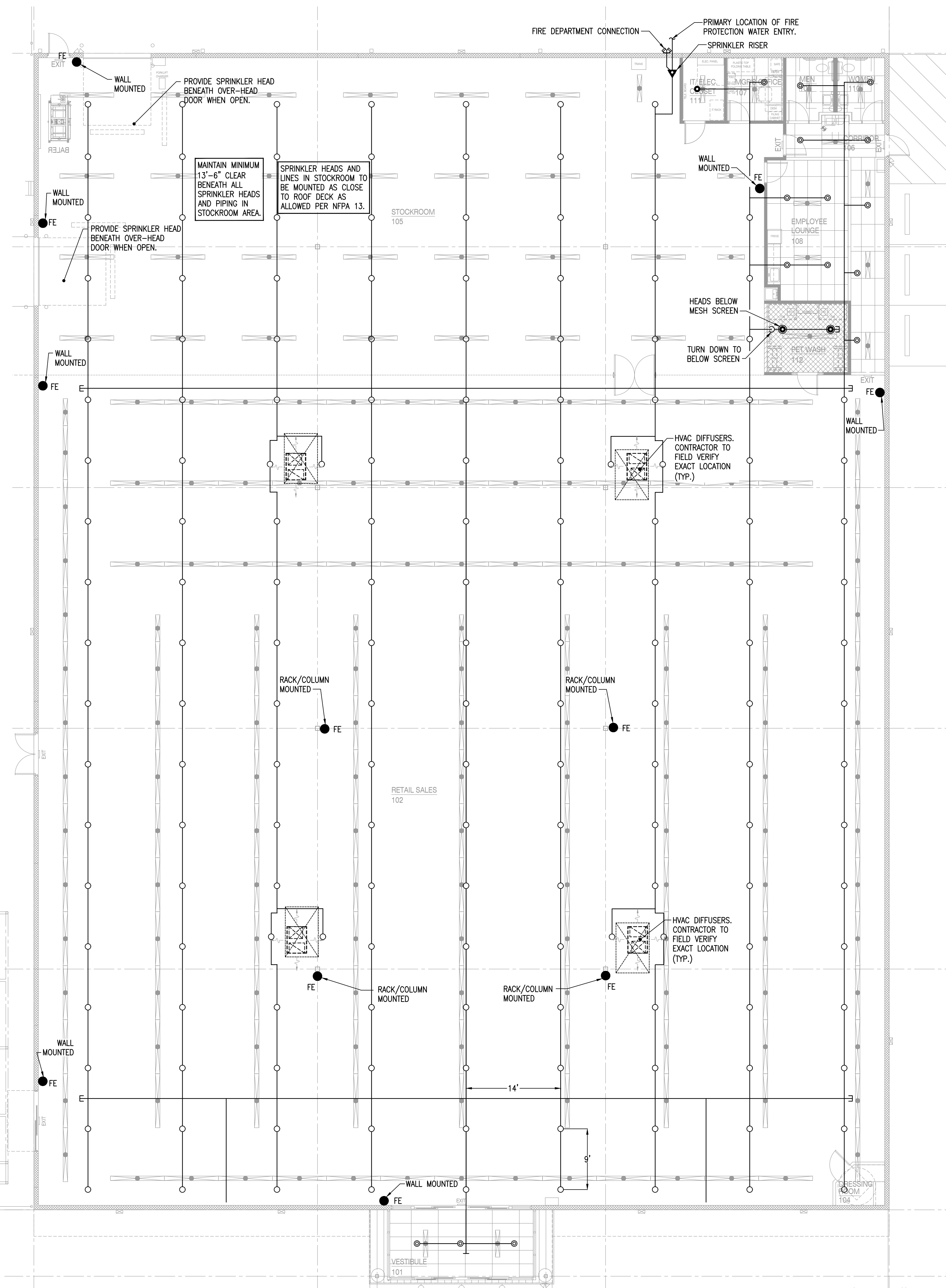
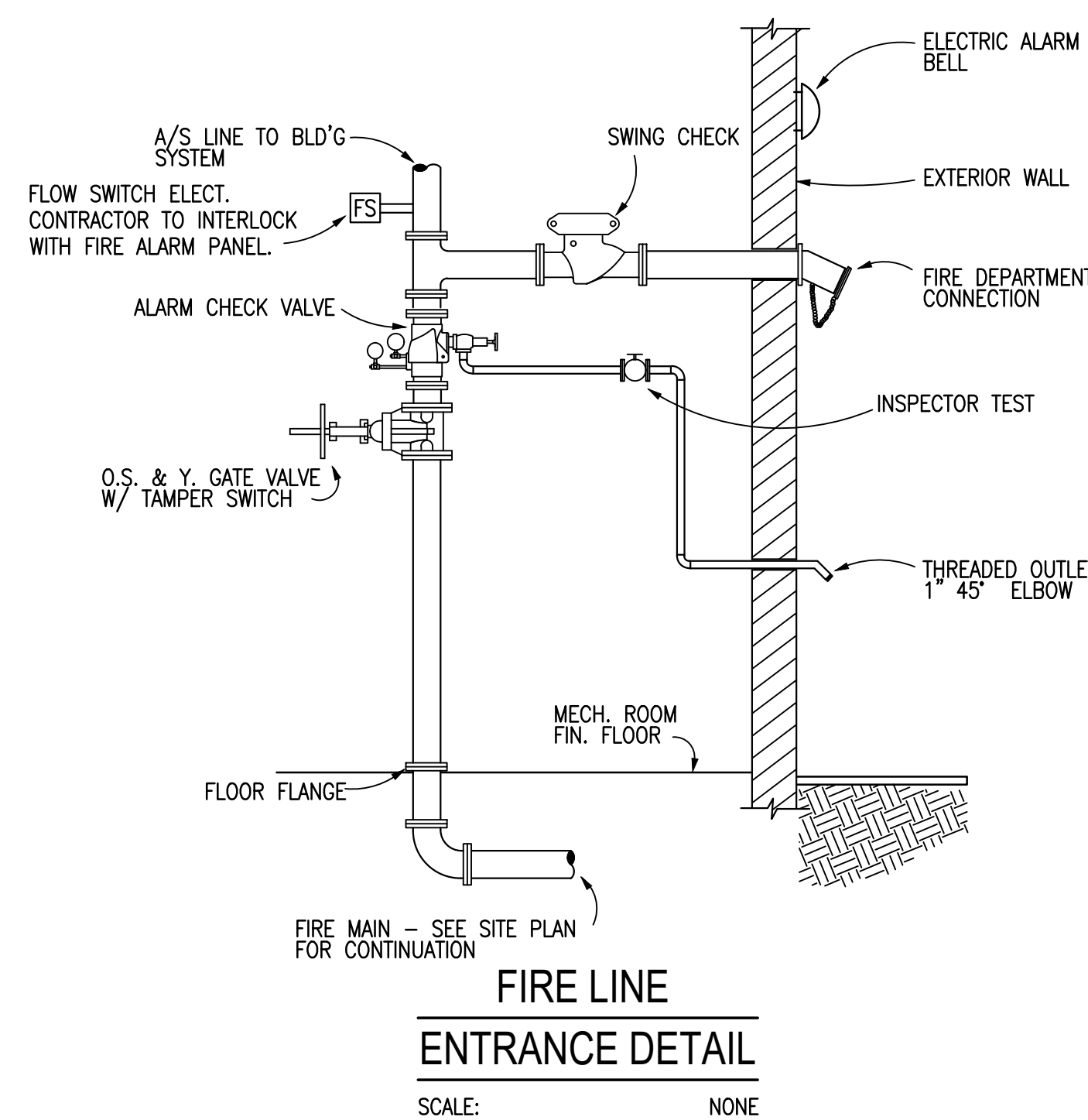
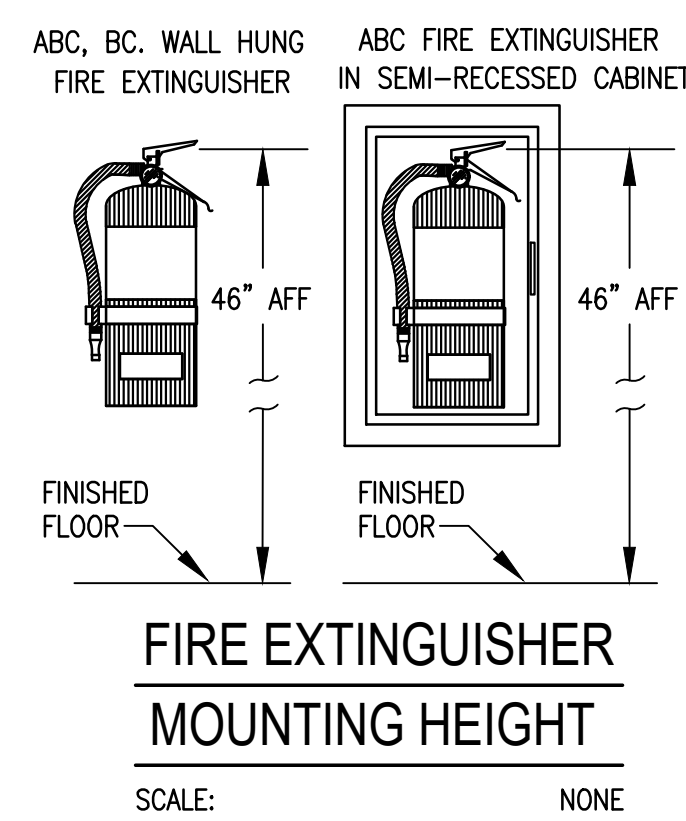
SPRINKLER LEGEND	
SYMBOL	DESCRIPTION
⊙	RECESSED CHROME PENDANT HEAD (165°F)
○	UPRIGHT HEAD (165°F)
●	CHROME PENDANT HEAD (165°F)
▲	SPRINKLER RISER
●	FIRE EXTINGUISHER

GENERAL NOTES

- TSC TO FURNISH AND CONTRACTOR TO INSTALL MINIMUM OF 11 PORTABLE FIRE EXTINGUISHERS. LOCATIONS SHALL BE DETERMINED BY STORE FIXTURES AND SHELVING TO MAINTAIN A MAXIMUM TRAVEL DISTANCE OF 75'-0".
- SPRINKLER LINES, MAINS, AND BRANCHES SHALL BE AS HIGH AS POSSIBLE IN STOCKROOM.
- TSC 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.
- ACTUAL SPRINKLER HEAD LAYOUT MAY VARY BASED ON ROOF SLOPE AND ORIENTATION. COORDINATE WITH GARDEN CENTER AND FEED STORAGE BUILDING MANUFACTURER PRIOR TO FINAL SPRINKLER DRAWING LAYOUT.
- CONTRACTOR TO RAISE SPRINKLER LINES, MAINS, AND BRANCHES AS HIGH AS POSSIBLE IN ALL EXPOSED TO DECK LOCATIONS.

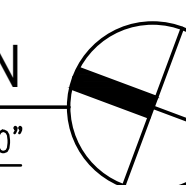
FIRE PROTECTION SPECIFICATIONS

- 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 LOCALITY 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 AND/OR RELOCATING EXISTING SPRINKLER HEADS AS REQUIRED IN THE VESTIBULE, SALES AREA, TOILETS, OFFICES, AND BREAKROOM. RELOCATE EXISTING UPRIGHT SPRINKLER HEADS OR PROVIDE NEW SPRINKLER HEADS AS REQUIRED IN THE STOCK ROOM. 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. FIELD VERIFY EXISTING CONDITIONS.
- 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.
- CONTRACTOR SHALL VISIT THE SITE AS WELL AS ADJACENT SPACES AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING SCOPE OF WORK. VERIFY PIPE SIZES, LOCATION OF EXISTING COMPONENTS, AND SUITABILITY OF THE EXISTING SYSTEMS TO MEET THE HYDRAULIC CALCULATIONS PRIOR TO BID.
- 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 165°F HEADS.
- SALES AREA, VESTIBULE, 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 165°F HEADS.
- RECEIVING AREA AND STOCKROOM SHALL BE HYDRAULICALLY BALANCED TO PRODUCE .20 GPM PER SQUARE FOOT DENSITY OVER THE MOST REMOTE 1,500 SQ. FT., HEAD COVERAGE 130 FT./HEAD MAXIMUM, USING 165°F HEADS.
- BUILDING AWNING AND CANOPY AREAS SHALL BE HYDRAULICALLY BALANCED TO PRODUCE 0.2 G.P.M. PER SQUARE FOOT DENSITY OVER THE MOST REMOTE 1,500 SQ. FT., HEAD COVERAGE 80 SQ. FT./HEAD MAXIMUM, USING 200°F HEADS.
- ALL SPRINKLER HEADS IN AREAS WITH FINISHED CEILING SHALL BE CHROME-PLATED 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.
- MODIFICATIONS TO THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13.

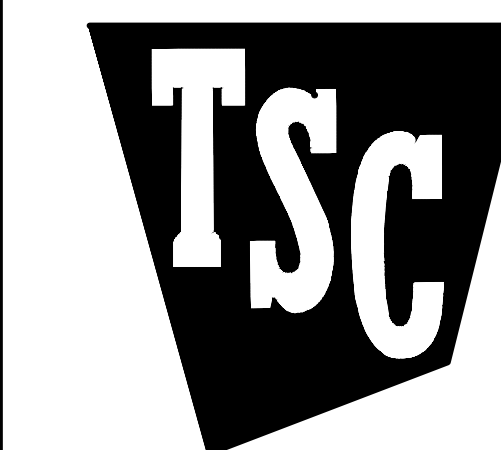


FIRE PROTECTION PLAN

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



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Project #24-027



TRACTOR SUPPLY COMPANY

LILLINGTON NORTH CAROLINA

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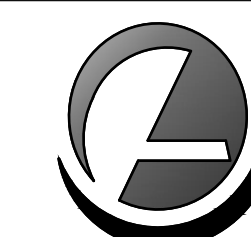
Revisions:

Revisions:

Revisions:

FIRE PROTECTION PLAN

Sheet Number: FP1.0



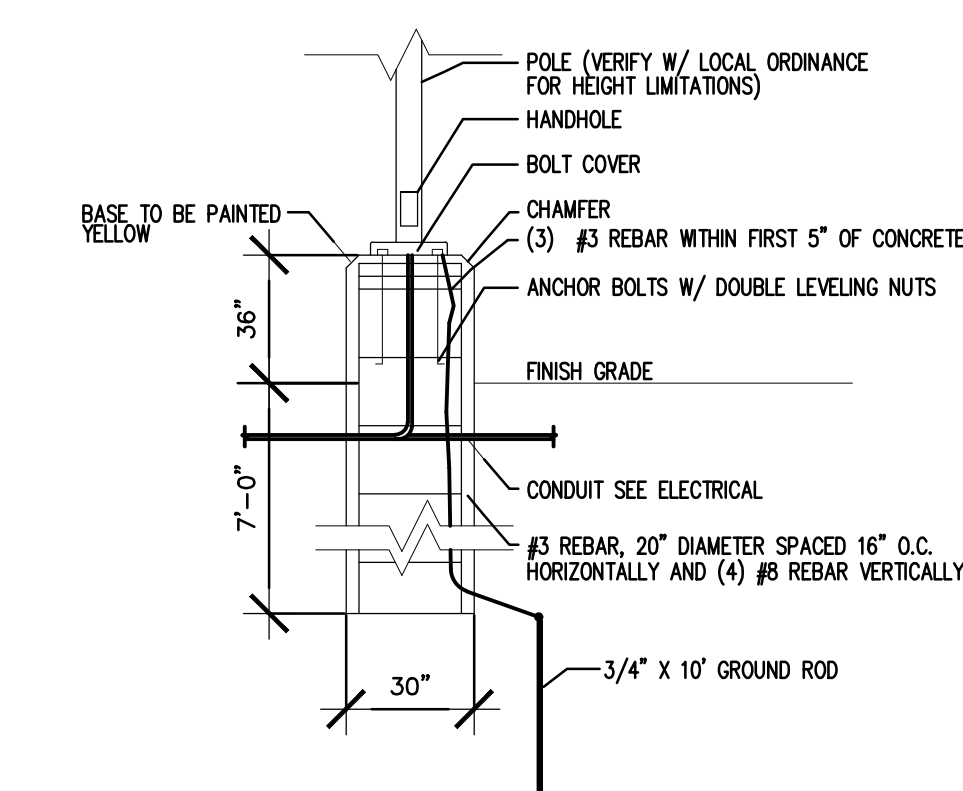
GLEN P. OXFORD
ARCHITECT

2934 Sidco Drive
Suite 120
Nashville, TN 37204

Architecture
Planning
Interior Architecture

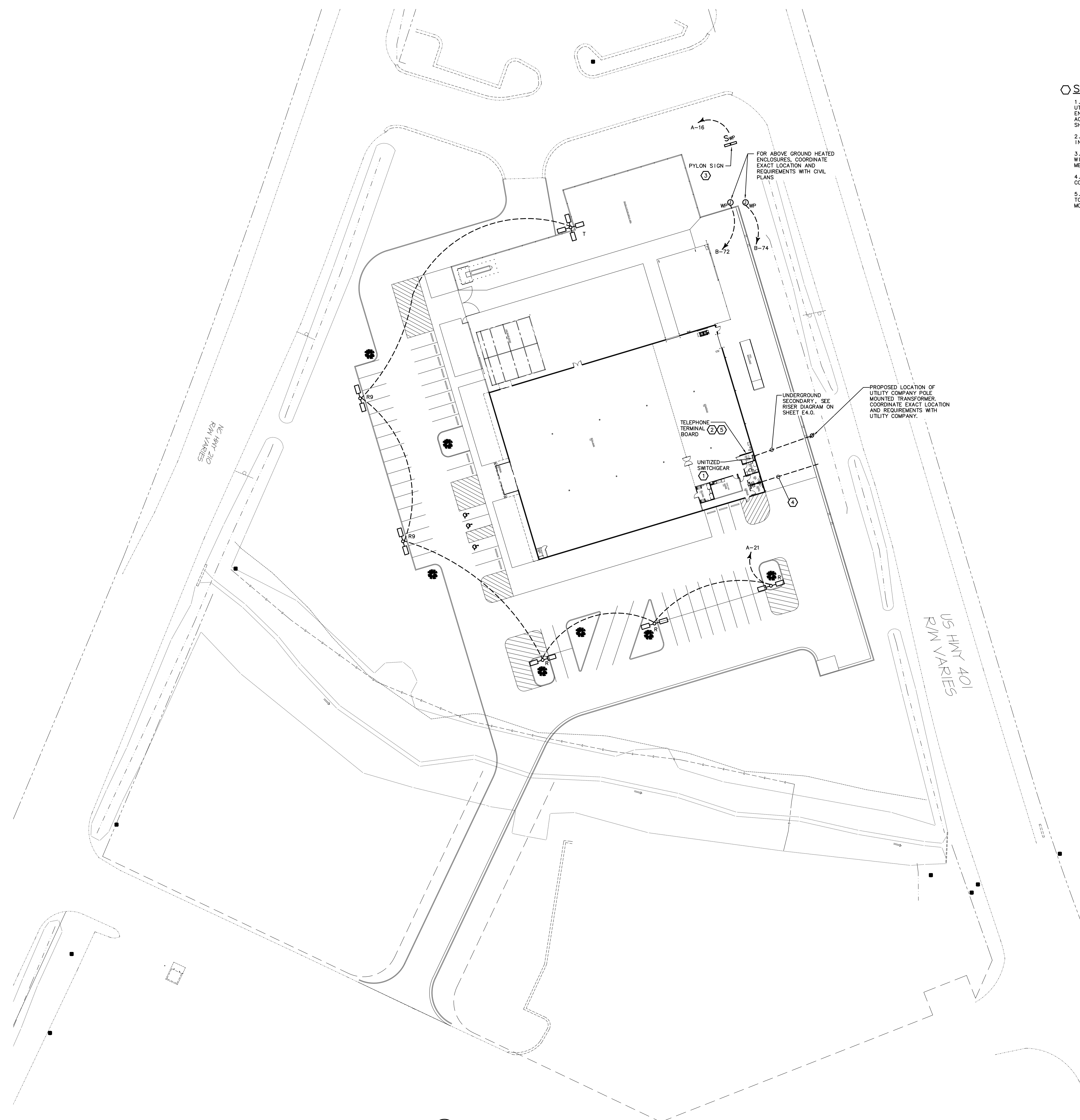
SITE PLAN NOTES

- COORDINATE INSTALLATION OF NEW UNDERGROUND SERVICE WITH LOCAL ELECTRIC UTILITY COMPANY. PROVIDE TRENCHING, CONDUIT, CONDUCTORS, METER BASE, CT ENCLOSURE, CONCRETE PAD, AND OTHER ITEMS AS REQUIRED. INSTALL SERVICE IN ACCORDANCE WITH CURRENT UTILITY COMPANY REQUIREMENTS. SEE RISER DIAGRAM ON SHEET E4.0.
- COORDINATE INSTALLATION OF TELEPHONE SERVICE CONDUITS WITH LOCAL TELEPHONE COMPANY. INSTALL (2) 2" CONDUITS FROM TELEPHONE SERVICE POINT TO TELEPHONE TERMINAL BOARD.
- VERIFY LOCATION OF PYLON SIGN WITH OWNER. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH VENDOR. PROVIDE CIRCUIT PER VENDOR'S RECOMMENDATIONS. PROVIDE DISCONNECTING MEANS IF NOT PROVIDED WITH SIGN AND LOGGATE PER VENDOR'S RECOMMENDATIONS.
- PROVIDE A 1-1/2" CONDUIT FROM IRRIGATION CONTROLLER TO OUTSIDE OF CURBLINE. COORDINATE EXACT LOCATION WITH GC.
- CONTRACTOR SHALL INSTALL 1" C WITH PULLSTRING FROM THE TELEPHONE TERMINAL BOARD TO REMOTE PIV, BACKFLOW, OR WATER VALVES THAT THE LOCAL AHJ REQUIRES TO BE MONITORED BY THE FIRE ALARM SYSTEM.

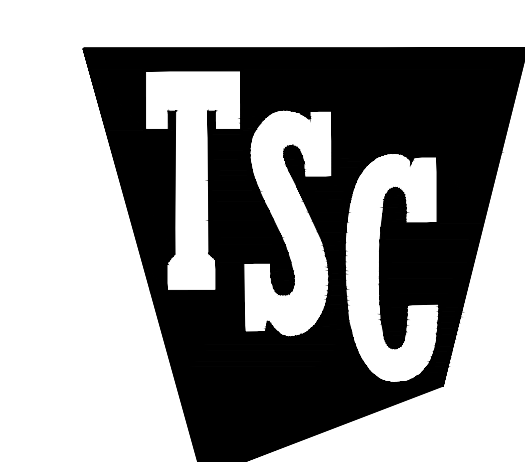


POLE BASE DETAIL

NO SCALE
POLE BASE DETAIL PROVIDED FOR SCOPE AND BID PURPOSES.
CONTRACTOR SHALL SUBMIT A POLE BASE DESIGN SUITABLE FOR LOCAL CONDITIONS AND APPROVED BY A STRUCTURAL ENGINEER.



1 ELECTRICAL SITE PLAN
ES1.0 SCALE: 1" = 30'-0"



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Date: 03.22.2024

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Revisions:

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ELECTRICAL SITE PLAN

Sheet Number: **ES1.0**



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LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE SCHEDULE - ELECTRICAL CONTRACTOR SHALL PURCHASE LIGHTING FIXTURES THROUGH TRACTOR SUPPLY COMPANY'S NATIONAL AGREEMENT WITH VILLA LIGHTING SUPPLY, INC. CONTACT ANNE VOELKER (tractorsupply@villalighting.com) AT 314-633-0554 FOR PRICING.

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS		WATTAGE	MOUNTING	REMARKS
			VOLT	QTY			
A	LITHONIA LIGHTING	CLX-196-1000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PLR2ANG-WH	277		10000 LUMEN LED 4000K	SURFACE MOUNTED	8' LED STRIP
AE	LITHONIA LIGHTING	CLX-196-1000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PS1050-SPD-PLR2BELONG-WH	277		10000 LUMEN LED 4000K	SURFACE MOUNTED	SAME AS 'A' BUT WITH INTEGRAL EMERGENCY BATTERY
A1	LITHONIA LIGHTING	CLX-148-5000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PLR2ANG-WH	277		5000 LUMEN LED 4000K	SURFACE MOUNTED	4' LED STRIP
A1E	LITHONIA LIGHTING	CLX-148-5000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PS1050-SPD-PLR2BELONG-WH	277		5000 LUMEN LED 4000K	SURFACE MOUNTED	SAME AS 'A1' BUT WITH INTEGRAL EMERGENCY BATTERY
B	LITHONIA LIGHTING	CLX-196-1000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PLR2ANG-WH	277		10000 LUMEN LED 4000K	SUSPENDED MOUNTED	8' LED STRIP
BE	LITHONIA LIGHTING	CLX-196-1000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PS1050-SPD-PLR2BELONG-WH	277		10000 LUMEN LED 4000K	SUSPENDED MOUNTED	SAME AS 'B' BUT WITH INTEGRAL EMERGENCY BATTERY
B1	LITHONIA LIGHTING	CLX-148-5000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PLR2ANG-WH	277		5000 LUMEN LED 4000K	SUSPENDED MOUNTED	4' STRIP
B1E	LITHONIA LIGHTING	CLX-148-5000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PS1050-SPD-PLR2BELONG-WH	277		5000 LUMEN LED 4000K	SUSPENDED MOUNTED	SAME AS 'B1' BUT WITH INTEGRAL EMERGENCY BATTERY
G	MAXLITE	HLRS-45-U-L-P	UNV	1	5,760 LUMEN LED 5000K	45.0 WATTS	PENDANT EXTERIOR HAZARDOUS AREA LED PENDANT LIGHT
K	LITHONIA LIGHTING	DSKW-LED-10C-1000-50K-13M-MVOLT-DOBXD	UNV	1	3,970 LUMEN LED 5000K	39.0 WATTS	SURFACE EXTERIOR LED WALL LIGHT
K1	HI-LITE	H-15118-97/HL-AHD-27"-97/21/LED2/40/D/BOCM-B	277	1	18W LED 4000K	18.0 WATTS	WALL MOUNT EXTERIOR GOOSENECK WALL LIGHT
R	LITHONIA LIGHTING	RSX1-LED-P3-50K-R3-MVOLT-SPA	UNV	2	14,000 LUMEN LED 5000K	218 WATTS	TWO HEADS AT 180 DEGREES POLE MOUNTED ON 22" BRONZE POLE PARKING LOT LIGHTS
R9	LITHONIA LIGHTING	RSX1-LED-P3-50K-R3-MVOLT-SPA	UNV	2	14,000 LUMEN LED 5000K	218 WATTS	TWO HEADS AT 180 DEGREES WITH ROTATED OPTICS, POLE MOUNTED ON 22" BRONZE POLE PARKING LOT LIGHTS
T	LITHONIA LIGHTING	RSX1-LED-P3-50K-R3-MVOLT-SPA	UNV	4	14,000 LUMEN LED 5000K	436 WATTS	FOUR HEADS AT 90 DEGREES POLE MOUNTED ON 22" BRONZE POLE PARKING LOT LIGHTS
X	EXITRONIX LIGHTING	VE-X-U-BP-WB-WH-R6	UNV	-	INCL.	0.8 WATTS	SURFACE LED EXIT SIGN
XR	EXITRONIX LIGHTING	VE-X-U-BP-WB-WH-R6 / MLED2-G-WP	UNV	-	INCL.	3.8 WATTS	SURFACE LED EXIT SIGN WITH EXTERIOR REMOTE HEADS
XW	EXITRONIX LIGHTING	VE-X-WPC-1-R-W-H-R-2RL1-WP	UNV	-	INCL.	3.6 WATTS	SURFACE WET LOCATION RATED LED COMBINATION EXIT/EMERGENCY LIGHT WITH INTEGRAL BATTERY AND TWO REMOTE HEADS
Y	METALUX	8V72-LD5-9-DR-UNV-L850-CD1-WL-U	UNV		9000 LUMEN LED 5000K	66.0 WATTS	SUSPENDED MOUNTED 8' LED STRIP W/ LENS AND GASRET
YE	METALUX	8V72-LD5-9-DR-UNV-ELIOW-L850-CD1-WL-U	UNV		9000 LUMEN LED 5000K	66.0 WATTS	SUSPENDED MOUNTED SAME AS 'Y' BUT WITH INTEGRAL EMERGENCY BATTERY.

GENERAL NOTES

- A. SUBSTANTIAL COMPLETION MUST BE ACHIEVED ONE WEEK PRIOR TO THE FIXTURE DATE ESTABLISHED BY TSC AND THE G.C. SUBSTANTIAL COMPLETION INCLUDES PERMANENT POWER, SECURE BUILDING READY FOR FIXTURES, COMPLETED OFFICE/RESTROOMS, SALES FLOOR, DOCK WITH ALL WEATHER ACCESS, AND SIDEYARD WITH FENCING.
- B. ALL LIGHTING SHALL BE CONTROLLED BY LIGHTING CONTROL SYSTEM EXCEPT THE NIGHT LIGHTS(NL) AND EMERGENCY LIGHTING. ALL NIGHT LIGHTS(NL) AND EMERGENCY LIGHTING SHALL BE UNSWITCHED.
- C. UNLESS NOTED OTHERWISE, FIXTURES WITH EMERGENCY BATTERY PACKS SHALL HAVE CONNECTION TO LOCAL SWITCHING (WHERE INDICATED) AND CONNECTION TO CIRCUIT HOMERUN. LOCAL SWITCHING SHALL PROVIDE NORMAL ON/OFF CONTROL. UPON LOSS OF CIRCUIT POWER, EMERGENCY BATTERY PACKS SHALL PROVIDE IMMEDIATE ILLUMINATION ON BATTERY POWER, REGARDLESS OF LOCAL SWITCHING. REFER TO "TYPICAL EMERGENCY BATTERY PACK DETAIL" ON THIS SHEET.
- D. ALL EXIT SIGNS AND STANDALONE EMERGENCY LIGHTING FIXTURES SHALL BE CONNECTED TO CONTINUOUSLY HOT UNSWITCHED CIRCUIT CONDUCTOR OF CIRCUIT INDICATED.
- E. ALL NIGHT LIGHT FIXTURES SHALL BE FED FROM CIRCUIT A-2.
- F. COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- G. REFER TO LIGHT FIXTURE MOUNTING DETAILS "6, 7, 8, AND 9" ON SHEET E3.2.

PLAN NOTES

1. INTERLOCK EXHAUST FANS WITH LIGHTING CIRCUIT. PROVIDE OCCUPANCY SENSOR EQUAL TO SENSOR SWITCH "CM-9-R/MP-20" TO CONTROL LIGHTS AND FAN. FAN SHALL BE CONTROLLED VIA 120V CONTACT AND LIGHTS SHALL BE CONTROLLED VIA RELAY. PROVIDE 120V CIRCUIT FOR FANS (B-33).
2. NOTE NOT USED.
3. COORDINATE HEIGHT OF BUILDING MOUNTED LIGHTING FIXTURES WITH ARCHITECT AND G.C.
4. COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
5. NOTE NOT USED.
6. PROVIDE RELAYS AS REQUIRED TO OPERATE LIGHTING VIA OCCUPANCY SENSOR.
7. CIRCUIT EMERGENCY BALLAST/BATTERY BACKUP TO UNSWITCHED CONTINUOUSLY HOT CONDUCTOR OF CIRCUIT INDICATED.
8. MOUNT AT 12" BELOW CEILING.
9. OCCUPANCY SENSOR EQUAL TO SENSOR SWITCH "CM-9-R/MP-20" SENSOR TO CONTROL LIGHTS.
10. TSC CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT AND LOCATIONS OF GOOSENECK FIXTURES WITH ARCHITECT.
11. CONNECT BOTH EMERGENCY AND NORMAL OPERATION BALLASTS OF NIGHT LIGHTING FIXTURE TO UNSWITCHED CONTINUOUSLY HOT CIRCUIT CONDUCTOR OF CIRCUIT INDICATED. (A-2)
12. CIRCUIT EMERGENCY BALLAST/BATTERY BACKUP TO UNSWITCHED CONTINUOUSLY HOT CONDUCTOR OF CIRCUIT INDICATED. WIRE FIXTURE FOR SWITCHED OPERATION.

MOUNT ALL CONDUIT AND LIGHTING FIXTURES AS TIGHT TO DECK AS POSSIBLE IN STOCK ROOM. NOT TO BOTTOM OF JOISTS. MAINTAIN 1-1/2" SEPARATION FROM THE LOWEST SURFACE OF THE ROOF DECKING TO THE TOP OF THE FIXTURE, RACEWAY, BOX, ETC. IN ACCORDANCE WITH NEC 300.4(E).

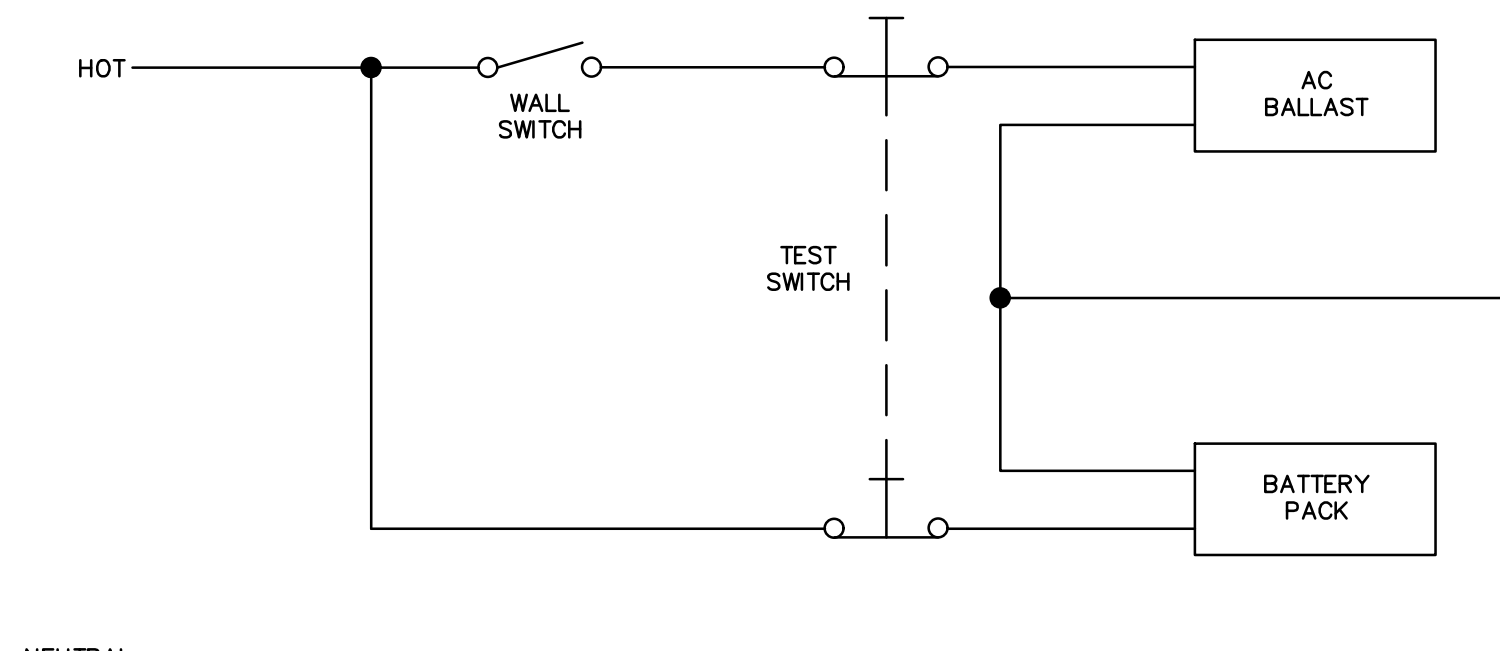
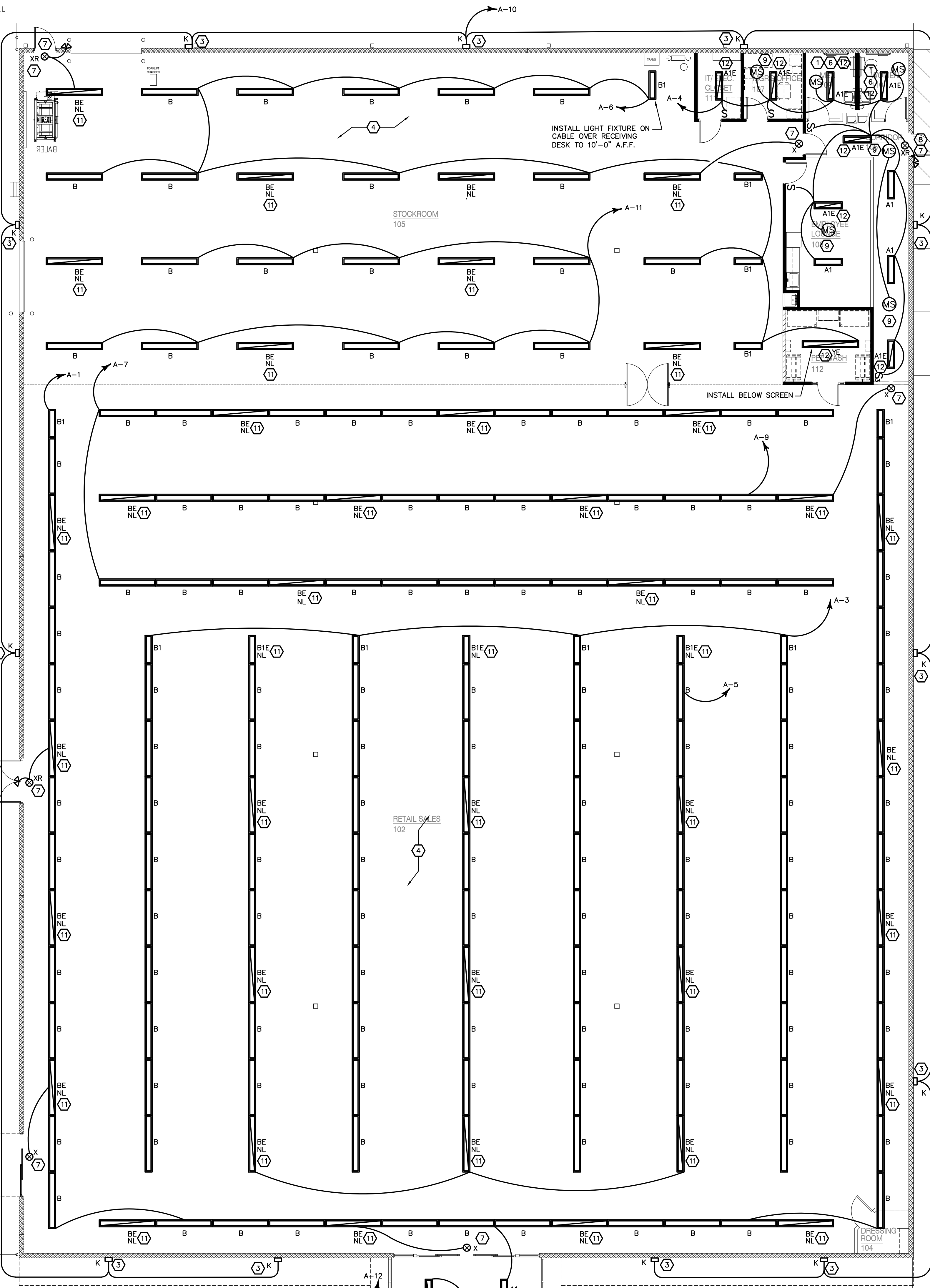
COORDINATE MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN - SHEET A3.0.

ROUTE CONDUITS FOR POWER FROM BUILDING TO BOTTOM OF LIVE GOODS CENTER ROOF STRUCTURE W/LIQUID-TIGHT NON-METALLIC CONDUIT, LESS THAN 6' LENGTH. TRANSITION TO HARD CONDUIT AT STRUCTURE.

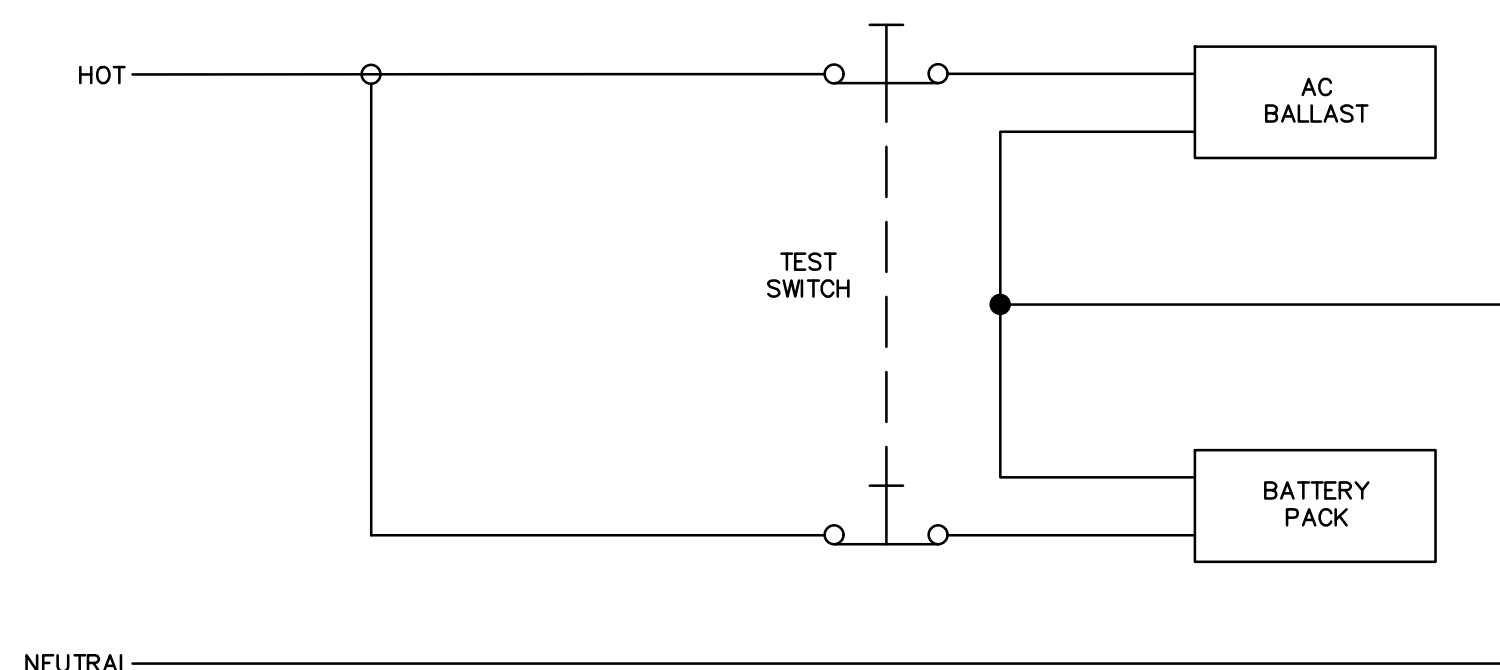
JUNCTION BOX FOR SIGN. FIELD VERIFY EXACT LOCATION WITH GENERAL CONTRACTOR & SIGN SUPPLIER. PROVIDE DISCONNECTING MEANS FOR SIGN PER NEC.

JUNCTION BOX FOR SIGN. FIELD VERIFY EXACT LOCATION WITH GENERAL CONTRACTOR & SIGN SUPPLIER. PROVIDE DISCONNECTING MEANS FOR SIGN PER NEC.

1 GENERAL LIGHTING PLAN
E1.0 SCALE: 1/8" = 1'-0"



SWITCHED



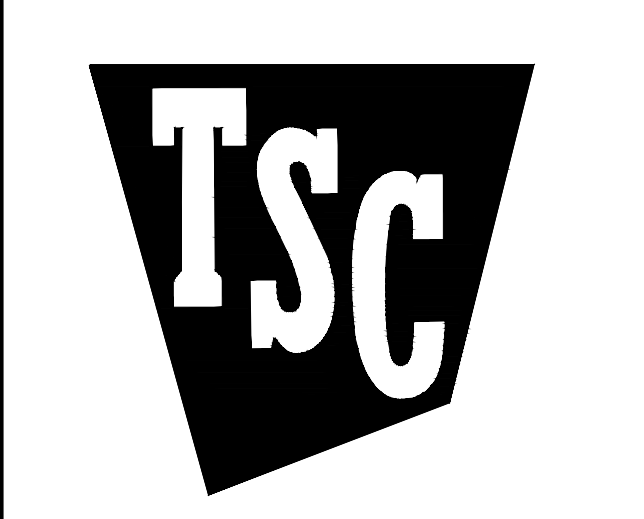
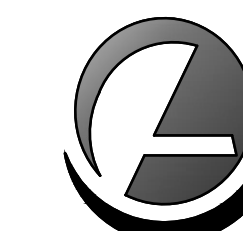
UNSWITCHED

2 TYPICAL BATTERY PACK WIRING DIAGRAM
E1.0 NO SCALE

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Date: 03.22.2024
Revisions:
Revisions:
Revisions:
GENERAL LIGHTING PLAN
Sheet Number: **E1.0**

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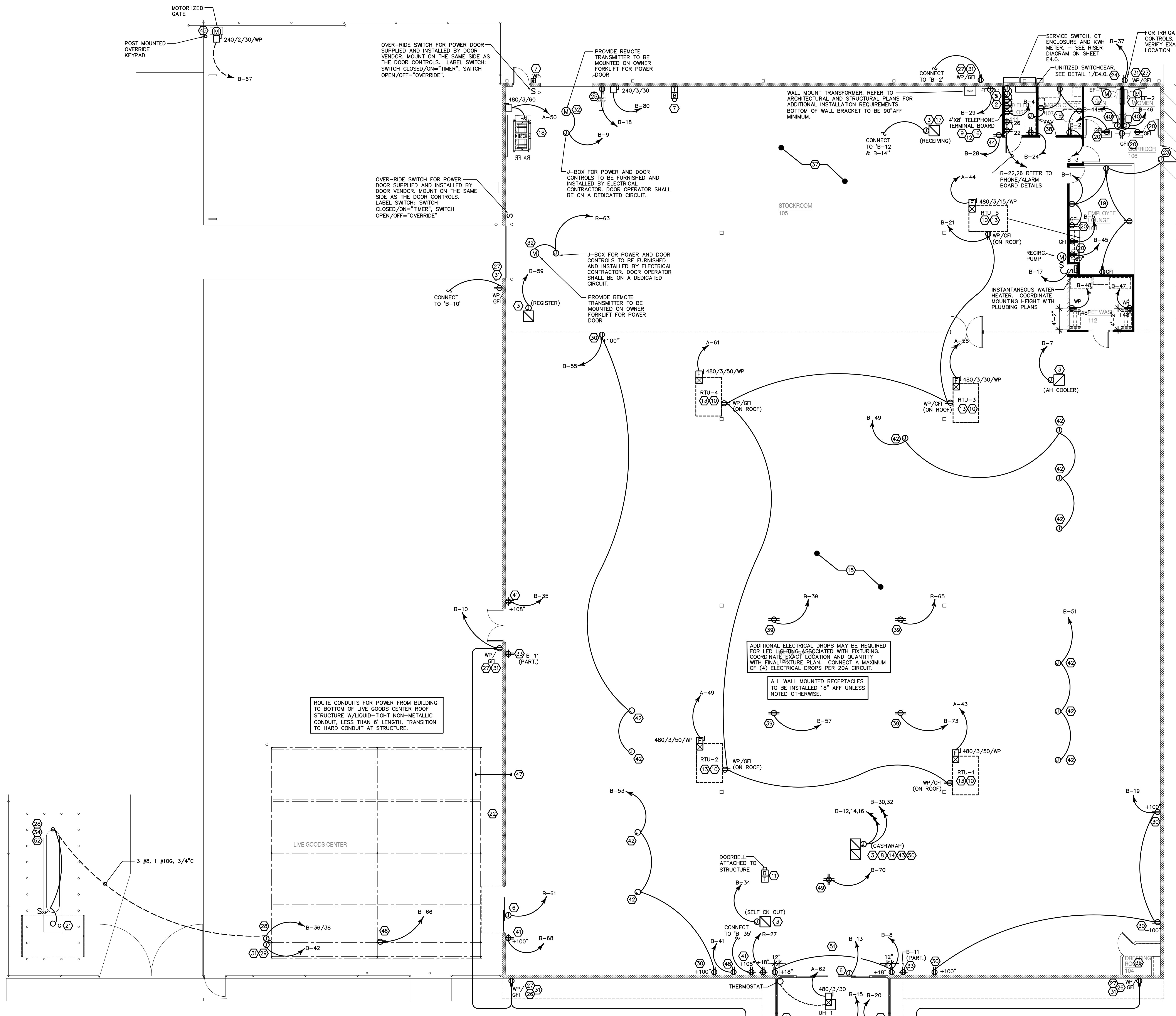
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Job Number:	2360
Date:	03.22.2024
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Revisions:	
Revisions:	GENERAL POWER PLAN
Sheet Number:	E2.0

PLAN NOTES:

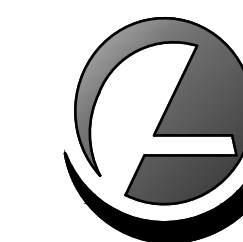
- INTERLOCK EXHAUST FANS WITH LIGHTING CIRCUIT. PROVIDE OCCUPANCY SENSOR EQUAL TO SENSOR SWITCH "CM-9-R/MP-20" TO CONTROL LIGHTS AND FAN. FAN SHALL BE CONTROLLED VIA 120V CONTACT AND LIGHTS SHALL BE CONTROLLED VIA RELAY. PROVIDE 120V CIRCUIT FOR FANS (B-33).
- COORDINATE CONDUIT ROUGH-IN FOR TAMPER AND FLOW CONNECTIONS AS WELL AS ALL OTHER FIRE ALARM DEVICES WITH FIRE ALARM CONTRACTOR.
- FURNISH AND INSTALL POWER POLES FROM SALES COUNTERTOPS TO CEILING STRUCTURE. SPECIFY RELOC #P2-188-WH-B-BLACK OR EQUIVALENT. REFER TO OFFICIAL TSC FIXTURE PLAN LAYOUT SENT FROM TSC TO GC FOR EXACT LOCATIONS. ATTACH POWER POLE TOP TO UNI-STRUT AT BAR JOIST WITH A "U" CLAMP TO THE TOP OF THE POWER POLE AT THE BAR JOIST. LOOSEN THE "U" BOLT USED TO TIGHTEN THE CONNECTION TO THE POWER POLE SO THAT THE POWER POLE IS ABLE TO REMAIN IN POSITION AND THE ROOF CAN FLEX DURING EXPANSION AND CONTRACTION WITHOUT DAMAGING THE POWER POLE. REFER TO DETAILS ON SHEET E3.1.
- RECEPTACLE FOR "STORE OPEN" AND "CUB CADET" SIGN MOUNTED IN CEILING WITHIN 6" OF VERTICAL STOREFRONT GLASS.
- JUNCTION BOX FURNISHED AND INSTALLED FOR THE FIRE PROTECTION SYSTEM ELECTRICAL GONG. ELECTRICAL CONTRACTOR TO INSTALL AND WIRE FIRE GONG. COORDINATE WITH FIRE SUPPRESSION CONTRACTOR FOR VOLTAGE. PROVIDE LOW VOLTAGE TRANSFORMER AS REQUIRED.
- JUNCTION BOX FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR FOR POWER DOORS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EDWARDS 55-40B DOOR BELL AND AN EDWARDS 592 TRANSFORMER AT TWO LOCATIONS SHOWN. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EDWARDS 250 PUSHBUTTON TO CONTROL BOTH DOOR BELLS. PUSHBUTTON SHALL BE INSTALLED IN A WEATHERPROOF ENCLOSURE. TEST TO ASSURE WORKING SYSTEM. MOUNT TRANSFORMER & BELL AT 14"-0" AFF.
- REFER TO SHEET E4.0 MATRIX AND E3.1 COUNTER DETAILS FOR RECEPTACLE AND DATA OUTLET LOCATIONS AT REGISTER COUNTERS (2) RED RECEPTACLES PER CIRCUIT MAXIMUM (COORDINATE COUNTER LOCATIONS WITH FIXTURE DRAWINGS AND G.C.) THE OUTLET BOXES WILL BE PRE-INSTALLED IN CASEWORK.
- (3) DUPLEX RECEPTACLES FURNISHED AND INSTALLED FOR SECURITY.
- ALL ROOFTOP EQUIPMENT CONNECTIONS SHALL BE MADE THROUGH THE UNIT ROOF CURB. ROOF PENETRATIONS ARE NOT ACCEPTABLE. ALL RTU'S AND AC UNITS SHALL HAVE A 3/4" CONDUIT OR SEAL TIGHT INSTALLED FOR LOW VOLTAGE CABLE.
- EDWARDS 55-40B DOOR BELL @ CASH REGISTER & CONNECT TO SYSTEM AS NECESSARY. COORDINATE WITH G.C. FOR EXACT LOCATION OF BELL.
- ALARM CO. SHALL PROVIDE & INSTALL NECESSARY HOOK-UPS TO FACP. ALARM CO. SHALL ALSO PROVIDE COMPLETE FIRE ALARM SYSTEM AS REQUIRED BY AHJ, ADA, NATIONAL AND LOCAL CODES.
- VERIFY A/C UNIT MANUFACTURER AND LOAD REQUIREMENTS. FURNISH AND INSTALL BRANCH CIRCUIT RATED FOR UNIT LOAD.
- REFER TO CASEWORK ELEVATIONS AND DETAILS ON PLAN E3.1 FOR ADDITIONAL INFORMATION ON REGISTER AND DISPLAY COUNTERS.
- ALL CONDUIT TO RUN PARALLEL OR PERPENDICULAR TO STRUCTURE. HORIZONTAL CONDUIT SHALL BE NO LOWER THAN 15'-6". NO HORIZONTAL CONDUITS ALLOWED TO BE MOUNTED ON THE SALES WALLS.
- COORDINATE WITH SECURITY VENDOR FOR THEIR INSTALLATION OF FIRE ALARM AND SECURITY SYSTEMS PANELS. PROVIDE TWO JUNCTION BOXES FOR HARDWIRED POWER CONNECTION.
- PROVIDE RED RECEPTACLE IN POWER POLE.
- COORDINATE ALL REQUIREMENTS OF DEALER WITH SUPPLIER. COORDINATE EXACT LOCATION WITH TSC FINAL FIXTURE PLAN. E.C. SHALL MAKE FINAL CONNECTION TO BALER. LOCATE DISCONNECT WITHIN TEN FEET OF BALER AND SUCH THAT IT DOES NOT INTERFERE WITH THE FINAL FIXTURE PLAN.
- PROVIDE OCCUPANCY SENSOR EQUAL TO SENSOR SWITCH "CM-9-R/MP-20" TO CONTROL LIGHTS. SENSOR SHALL BE CENTERED IN ROOM AS MUCH AS POSSIBLE.
- IF GF OUTLETS ARE NOT INSTALLED, OUTLETS SHALL BE CIRCUITED TO A GF BREAKER. LABEL OUTLETS THAT ARE ON THE GF BREAKER.
- PROVIDE TYPE "G" LIGHTING FIXTURE AT CANOPY CONTROLLED BY AN EXPLOSION PROOF SWITCH. CONNECT LIGHT TO PROPANE DISPENSING CIRCUIT. SEE DETAIL 2 ON SHEET E3.2. ALL CONDUIT SHALL BE RGS.
- ELECTRICAL CONDUITS AND BOXES IN THE VICINITY OF THE BANNERS ON THE OUTSIDE FACE OF THE EXTERIOR WALL SHALL BE INSTALLED ABOVE THE LOWER MEMBER OF THE "A" FRAME TO AVOID INTERFERENCE WITH THE BANNERS. COORDINATE EXACT LOCATION WITH FINAL FIXTURE PLAN AND TSC PROJECT MANAGER.
- J-BOX FOR POWER TO THE SERIES 800 POWER SUPPLY MOUNTED ABOVE THE CEILING IN LINE WITH THE HINGE SIDE OF THE DOOR. PROVIDE A 1/2" CONDUIT FROM THE POWER SUPPLY TO THE ELECTRIC POWER TRANSFER DEVICE (PT-5) OF THE DOOR FRAME. CONCEAL MOUNT. PROVIDE AND PULL TWO #18 AWG WIRE FROM THE POWER SUPPLY TO THE POWER TRANSFER DEVICE AND INTO THE DOOR. ELECTRICAL CONTRACTOR TO COMPLETE WIRING AND CONNECTION OF THE DELAYED RIM EXIT DEVICE AFTER NEW DOOR AND RIM EXIT HARDWARE IS INSTALLED. COORDINATE ALL REQUIREMENTS WITH SUPPLIER/INSTALLER. SEE DETAIL 12/E3.2.
- PROVIDE A 1-1/2" CONDUIT FROM IRRIGATION CONTROLLER TO OUTSIDE OF CURBLEIN. COORDINATE EXACT LOCATION WITH GC.
- 120 VOLT COMPRESSOR OUTLET LOCATED IN THE ASSEMBLY AREA. VERIFY FINAL LOCATION WITH THE TSC FINAL FIXTURE PLAN.
- LOCATE WP/GFI OUTLET 14" AS MEASURED FROM INSIDE CORNER OF WALL. EXPOSED CONDUIT FOR ELECTRICAL OUTLET SHALL BE ROUTED WITHIN 18" OF INTERIOR BUILDING CORNER.
- EXTERIOR OUTLET TO BE FLUSH MOUNTED IN WALL AT 36" AFF.
- BULK PROPANE NOTE:** LOCATION FOR CONDUIT PENETRATION THROUGH GRADE FROM BUILDING TO PROPANE GAS DISPENSING SYSTEM. ALL CONDUIT FOR BULK PROPANE SHALL BE RGS. VERIFY WITH TSC PROJECT MANAGER IF SDCP CAN NOT BE FOLLOWED. REFERENCE DETAILS 2,3,4,5/E3.2.
- BULK PROPANE NOTE:** BOLLARD MOUNTED PROPANE DISPENSING SYSTEM EMERGENCY STOP PUSHBUTTON IN WEATHER PROOF JUNCTION BOX MOUNT EMERGENCY STOP BUTTON AT 4'-6" AFF. CONTRACTOR SHALL PROVIDE SIGN AT PUSHBUTTON TO IDENTIFY AS "PROPANE - CONTAINER LIQUID VALVE EMERGENCY SHUTOFF". COORDINATE EXACT MOUNTING LOCATION OF PUSHBUTTON WITH ARCHITECT. REFERENCE DETAIL 1/E3.2 FOR CONTROL DIAGRAM. PUSHBUTTON SHALL BE INSTALLED AND LABELED PER NFPA 58 6.13.4 AND 6.13.5.
- VERIFY EXACT LOCATION OF RECEPTACLE WITH FINAL FIXTURE PLAN. RECEPTACLES SHOWN AT +100" SHALL BE INSTALLED AT 100" ABOVE FINISHED FLOOR TO BOTTOM OF BOX.
- CONTRACTOR SHALL ROUTE CONDUIT FOR ELECTRICAL DEVICES LOCATED BELOW 96" AFF RECESSED IN THE WALL. CONDUIT MAY BE ROUTED EXPOSED ABOVE 96" AFF. PAINT TO MATCH WALL.
- SPRING AND JAMB MOUNTING PADS TO BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. FACTORY WIRED OPERATORS AND CONTROLS FOR OVERHEAD DOOR TO BE FURNISHED AND INSTALLED BY DH PACE (LOW-VOLTAGE ONLY). ALL CONDUIT RACEWAYS, DISCONNECTS, ELECTRICAL BOXES, WIRING, AND CONNECTIONS ARE BY ELECTRICAL CONTRACTOR. DH PACE WILL LANS AND TERMINATE WIRING FOR LOW-VOLTAGE EQUIPMENT.
- QUADRAPLEX RECEPTACLE WALL MOUNTED AT 100" ABOVE FINISHED FLOOR FOR WIRELESS PHONE REPEATER. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TSC CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
- PROVIDE AND INSTALL (1) EXPLOSION PROOF JUNCTION BOX AT THE DISPENSING SYSTEM. JUNCTION BOX TO BE COOPER CROUSE HINDS MODEL # 904WZ. INSTALL SUCH THAT BOX IS IN A VERTICAL POSITION 50 THE MAXIMUM WIDTH 4-1/4". COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PROPANE DISPENSING CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE LOCATION OF CONDUIT ENTRIES WITH PROPANE DISPENSING VENDOR PRIOR TO ORDERING. JUNCTION BOX MUST BE CLASS 1, DIVISION 1 RATED. MEET ALL DIVISION REQUIREMENTS PER NFPA 58 6.13.4 AND 6.13.5.
- CONDUITS SHALL NOT BE RUN EXPOSED OR SURFACE MOUNTED INSIDE THE DRESSING ROOM. ANY CONDUIT FOR EXTERIOR DEVICES SHALL BE RUN CONCEALED IN THE WALL. INTERIOR DRESSING ROOM WALLS TO BE CLEAR OF CONDUIT AND JUNCTION BOXES BELOW 96" ABOVE FINISHED FLOOR.
- NOTE NOT USED.
- ALL CONDUITS INSTALLED IN THE STOCKROOM AREA SHALL BE INSTALLED AS TIGHT TO ROOF DECK AS ALLOWED BY CODE.
- PROVIDE 120V-24V TRANSFORMER AS NEEDED FOR VAV DAMPER. COORDINATE EXACT REQUIREMENTS FOR VAV DAMPER WITH MECHANICAL PLANS/MECHANICAL CONTRACTOR.
- "CHECK DAYS" OUTLET. INSTALL OUTLET TO BOTTOM OF JOIST AT DIMENSIONED LOCATION. VERIFY EXACT LOCATION WITH TSC FINAL FIXTURE PLAN. INSTALL CONTRACTOR PROVIDED POWER REEL CONNECTED TO OUTLET. POWER REEL SHALL BE HUBBELL #HBL40123T1.
- J-BOX FOR CONNECTION TO HAND DRYER. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.
- QUADRAPLEX RECEPTACLE WALL MOUNTED AT 108" ABOVE FINISHED FLOOR FOR EAS. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TSC CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
- PROVIDE ELECTRICAL DROP FOR LED LIGHTING ASSOCIATED WITH FIXITURING. PROVIDE DUPLEX RECEPTACLE INSTALLED ON END OF CONDUIT DROP. RECEPTACLE SHALL BE INSTALLED AT TOP OF FIXTURE. HEIGHTS MAY VARY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH TSC PROJECT MANAGER AND FINAL FIXTURE PLAN.
- POWER AND DATA TO FRONT COUNTER TO BE ROUTED IN SURFACE RACEWAY FROM REAR COUNTER. ALL POWER AND DATA TO SERVICE COUNTER AREA TO BE ROUTED IN TWO CHANNEL POWER POLE DESCRIBED IN NOTE #5.
- RECEPTACLE FOR FLOOR SCRUBBER. PROVIDE LABEL ABOVE RECEPTACLE STATING "OUTLET FOR FLOOR SCRUBBER ONLY". IN RETROFIT STORES LOCATE 18" AFF AND 36" FROM SIDE OF MOP SINK ON SIDE MOST CLEAR OF OTHER ITEMS. COORDINATE LOCATION WITH FINAL FIXTURE PLAN PRIOR TO ROUGH-IN. RECEPTACLE TO BE SURFACE MOUNTED ON THE PLYWOOD.
- PROVIDE POWER FOR SLIDING GATE AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH GATE VENDOR. THE REAR GATE IS TO BE CONTROLLED BY AN INDUCTIVE LOOP DETECTOR AND HAVE A POST MOUNTED KEYPAD FOR MANUAL OVERRIDE. PROVIDE CONTROL WIRING AS REQUIRED PER VENDOR RECOMMENDATIONS.
- PROVIDE WP DUPLEX RECEPTACLE W/ WEATHER PROOF WHILE-IN-USE COVER IN CAST BOX MOUNTED TO SHADE STRUCTURE POST FOR MOBILE POS SYSTEM.
- PROVIDE 3/4" STUB FROM BUILDING INTO LIVE GOODS CENTER STRUCTURE BELOW EAVE FOR LOW VOLTAGE SECURITY WIRING. ROUT CONDUITS OVERHEAD TO BOTTOM OF LIVE GOODS CENTER ROOF STRUCTURE W/ LIQUID-TIGHT NON-METALLIC CONDUIT, LESS THAN 6' LENGTH. TERMINATE W/ CLAMP AT UNDERSIDE OF STRUCTURE.
- RECEPTACLE FOR CHAINSAW POG. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH TSC CONSTRUCTION MANAGER AND FINAL FIXTURE PLAN.
- QUADRAPLEX RECEPTACLE MOUNTED AT 9'-6" AFF ON TV MOUNTING BRACKET. RECEPTACLE TO BE INSTALLED ON THE INSIDE OF ONE OF THE STEEL BRACKETS. CONTRACTOR SHALL RUN MC CABLE ON THE OUTSIDE OF THE STEEL SUSPENSION POLE AND SECURE TO THE POLE. LEAVE 18" OF SLACK MC CABLE COILED AT THE BAR JOIST FOR POSSIBLE FUTURE RELOCATION. COORDINATE EXACT LOCATION WITH FINAL FIXTURE PLAN AND TSC CONSTRUCTION MANAGER.
- TWO POWER BOXES MOUNTED BACK TO BACK. ONE FOR POWER WIRING AND ONE FOR LOW VOLTAGE WIRING. SECURE POWER POLES TO TOP OF COUNTER ON RIGHT CORNER BEHIND TSC COMPUTER. VERIFY EXACT LOCATION WITH TSC PROJECT MANAGER AND FINAL FIXTURE PLAN.
- REFER TO ARCHITECTURAL ELEVATIONS OF STOREFRONT FOR EXACT PLACEMENT OF DEVICES ON FRONT WALL.
- PROVIDE BUCK-BOOST TRANSFORMER TO PROVIDE 240V AT PROPANE DISPENSER. BUCK-BOOST TRANSFORMER SHALL BE FEDERAL PACIFIC MODEL 2-0.5 OR APPROVED EQUAL. MOUNT BUCK BOOST TRANSFORMER ADJACENT TO ELECTRICAL PANEL. 240V MUST BE PROVIDED AT THE PROPANE DISPENSER.



1 GENERAL POWER PLAN
 E2.0 SCALE: 1/8" = 1'-0"

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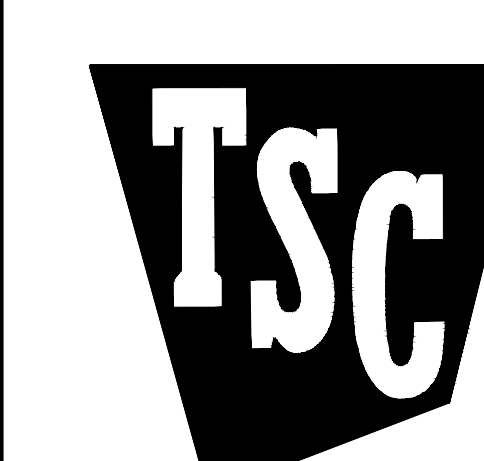




**GLEN P. OXFORD
ARCHITECT**

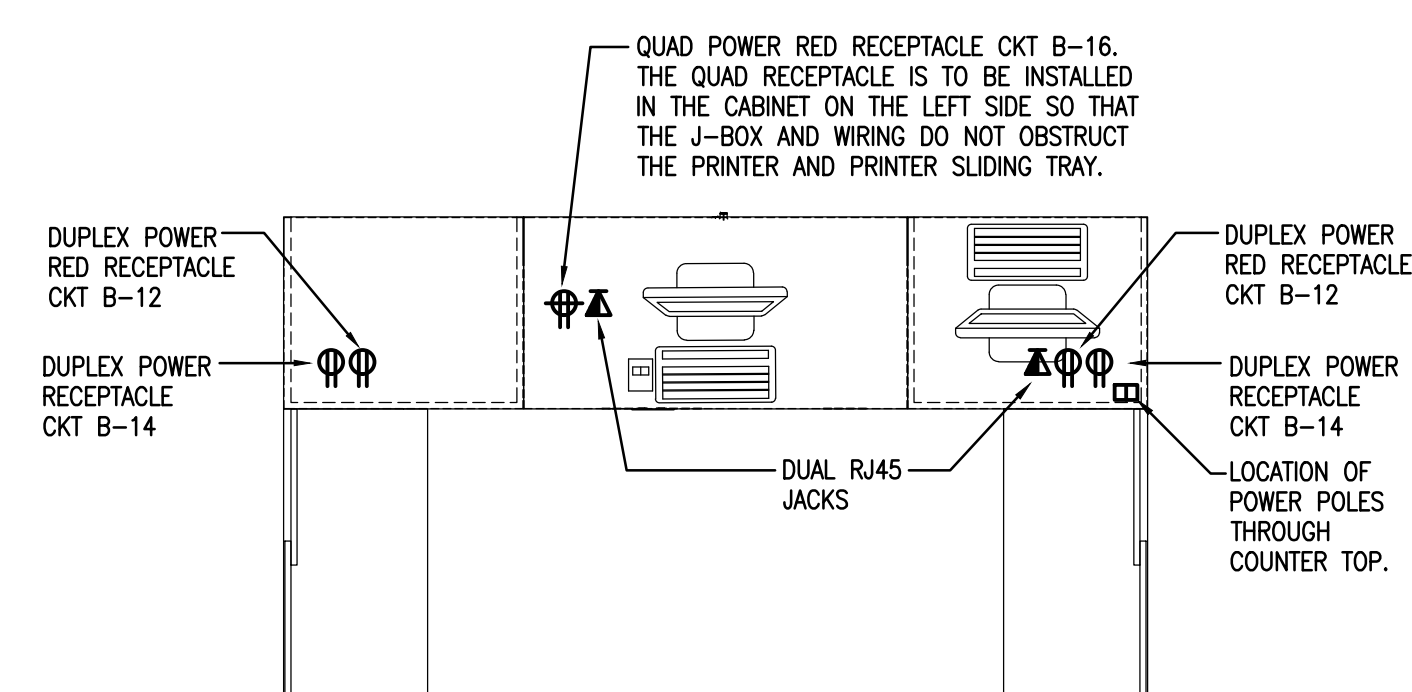
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Planning
Interior Architecture

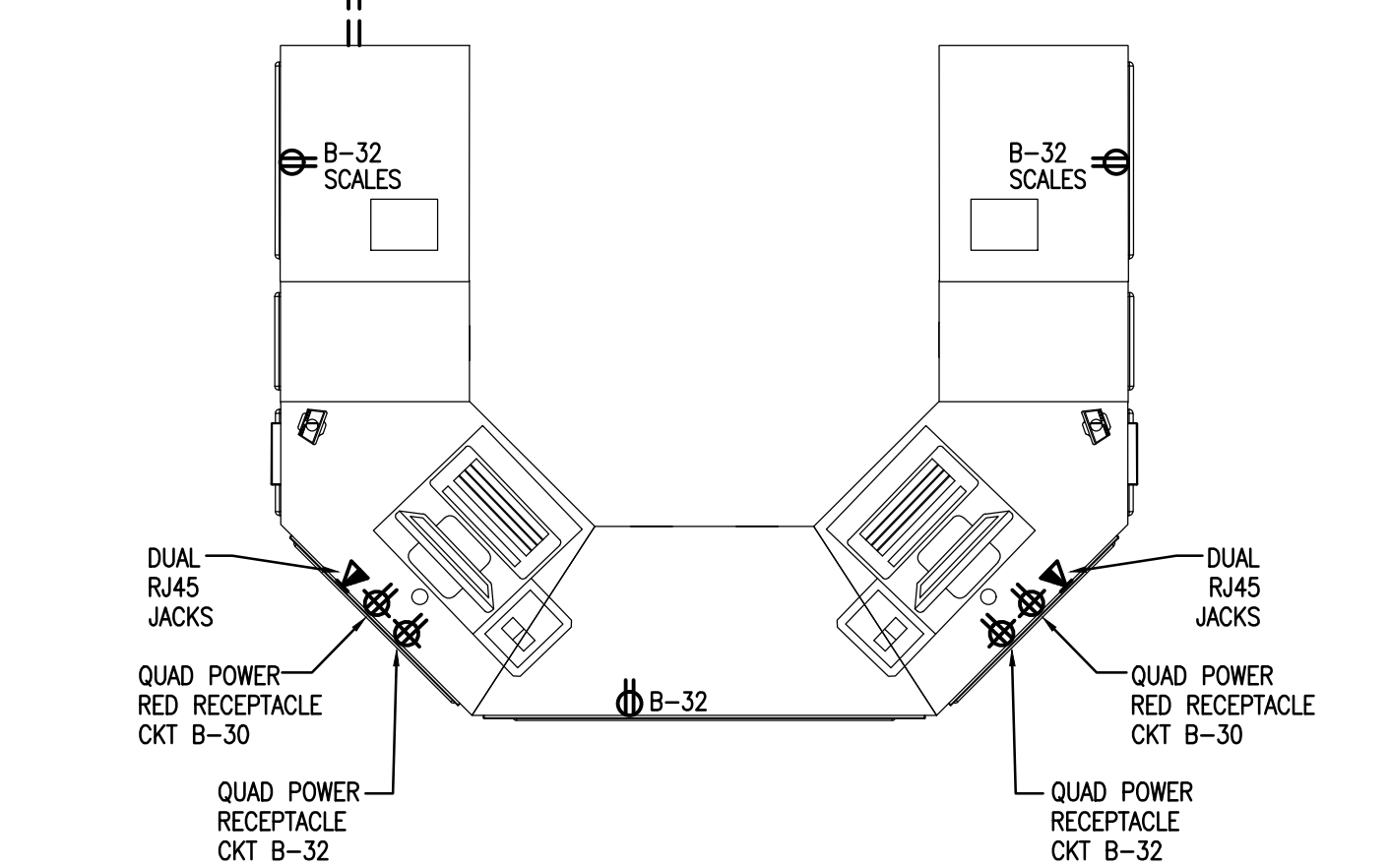


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6 NOT USED
E3.1 N.T.S.

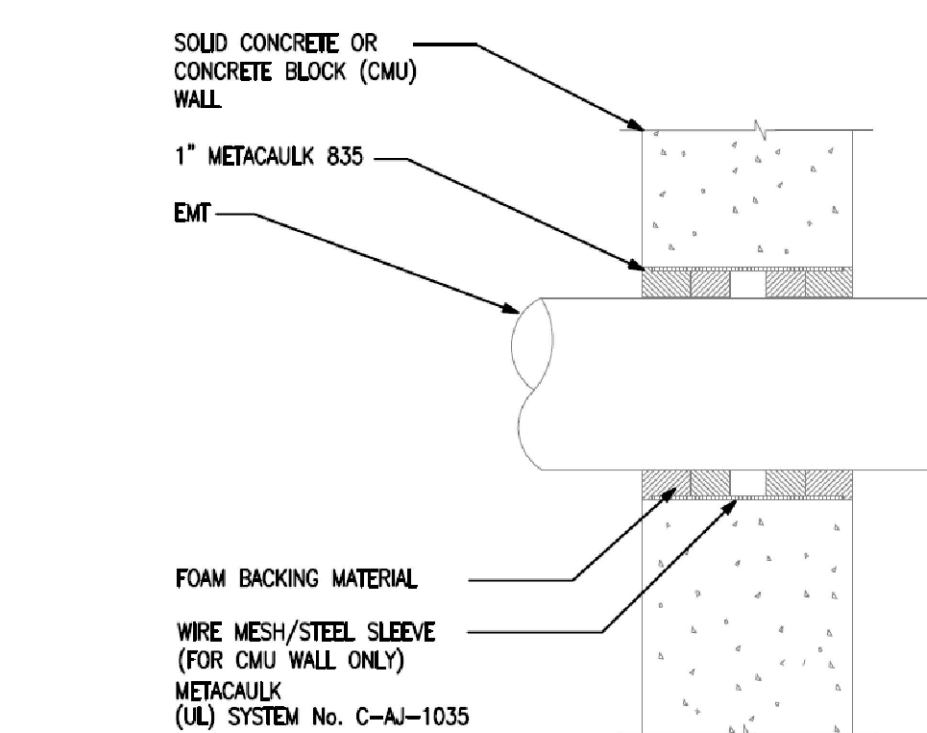


7 FUSION CASHWRAP DETAIL
E3.1 N.T.S.

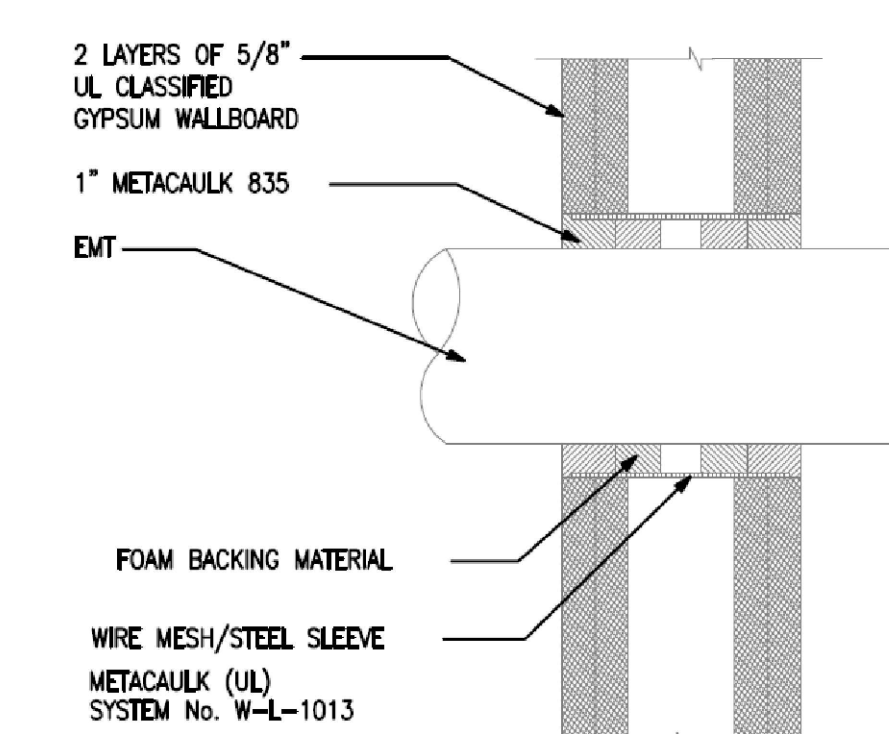
6 NOT USED
E3.1 N.T.S.

8 NOT USED
E3.1 N.T.S.

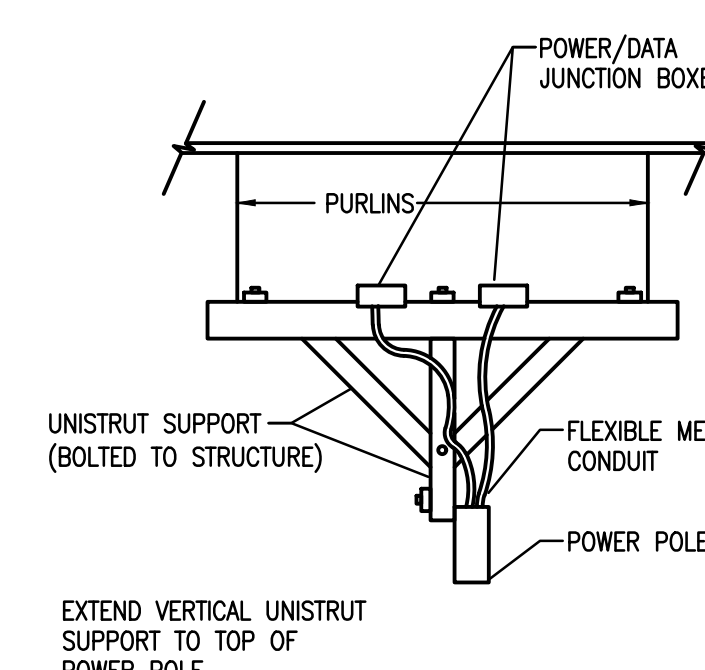
9 NOT USED
E3.1 N.T.S.



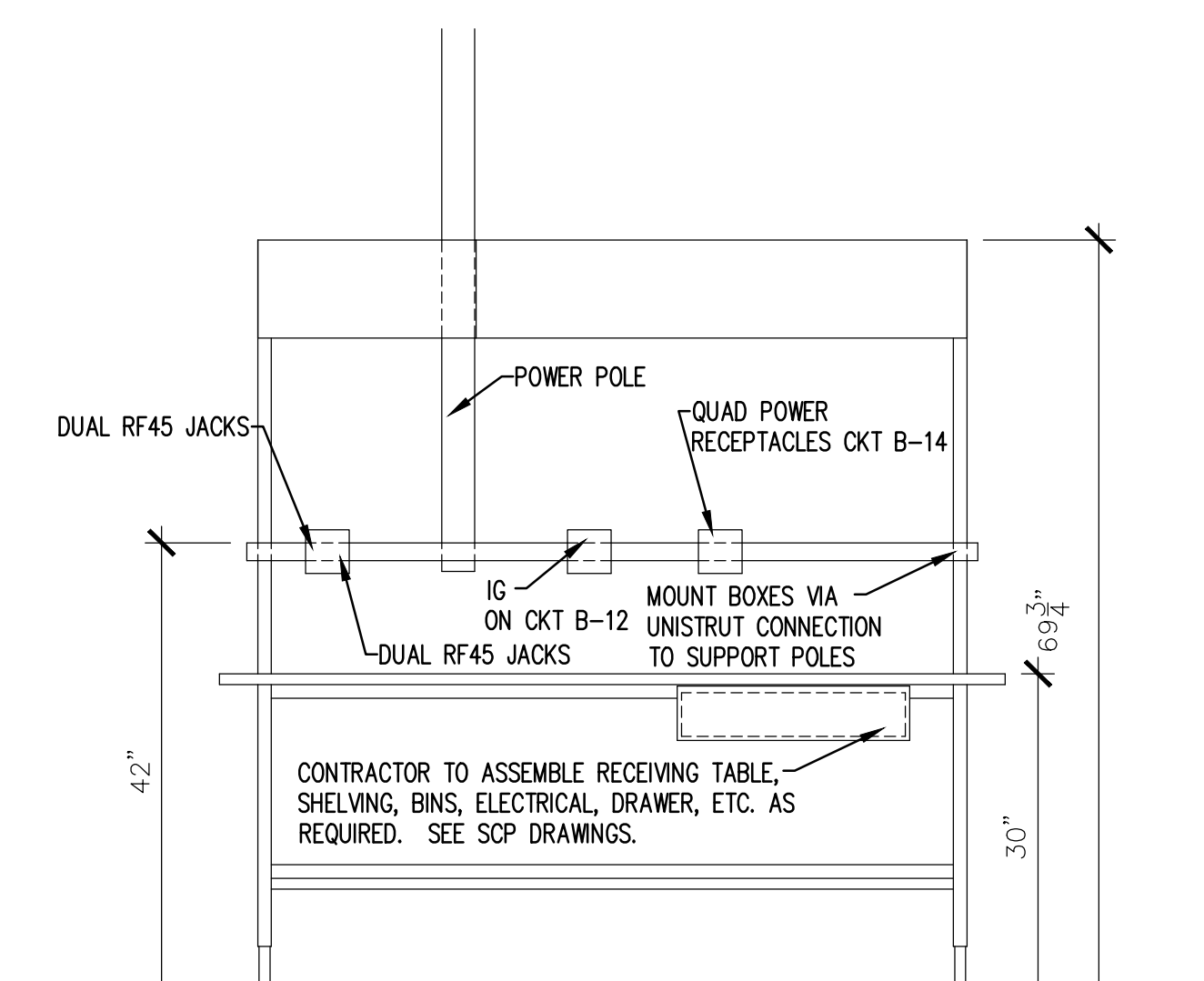
1 CONCRETE WALL PENETRATION (2HR.)
E3.1 N.T.S.



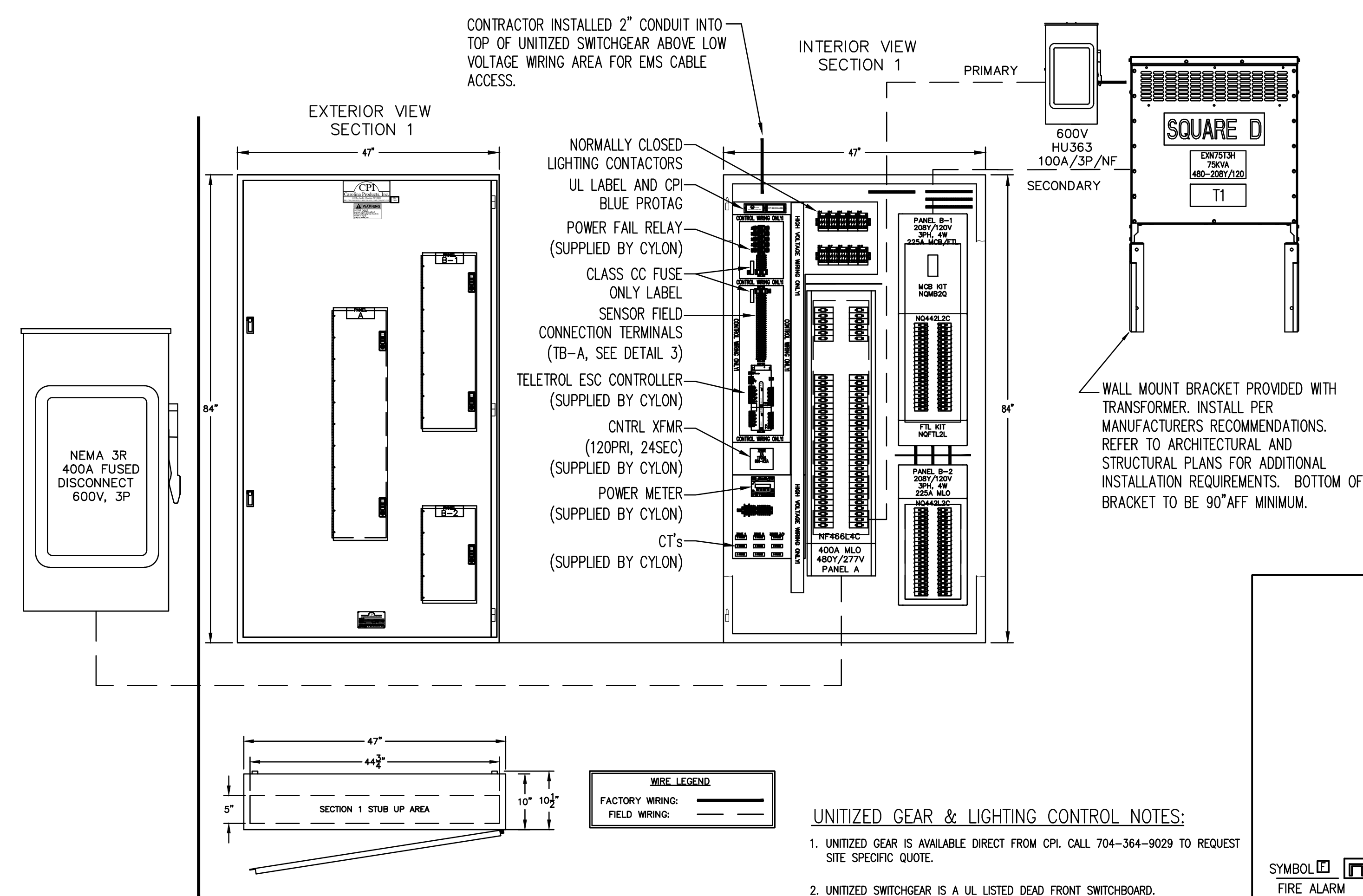
2 GYPSUM WALL PENETRATION (2HR.)
E3.1 N.T.S.



3 POWER POLE CONNECTION DETAIL
E3.1 N.T.S.



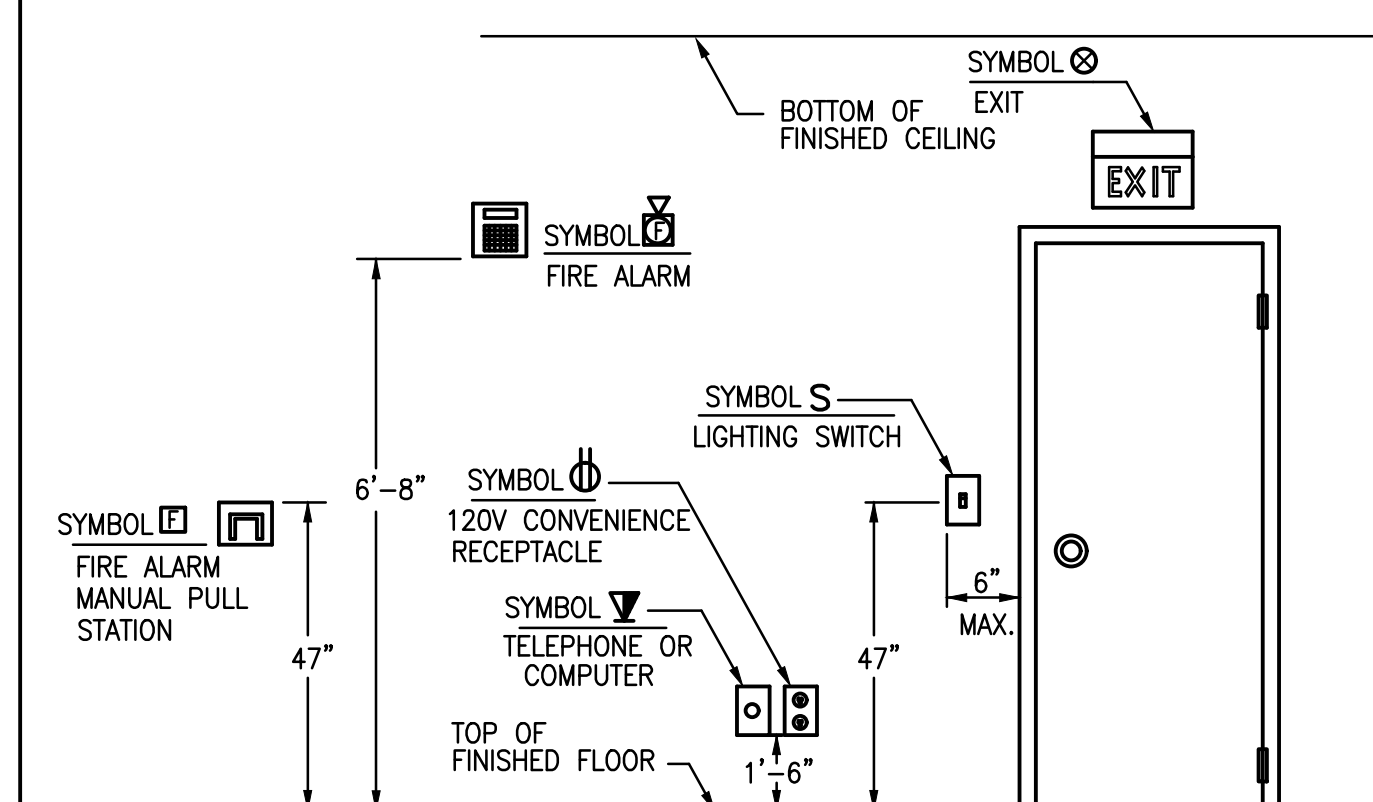
5 RECEIVING TABLE LAYOUT
E3.1 N.T.S.



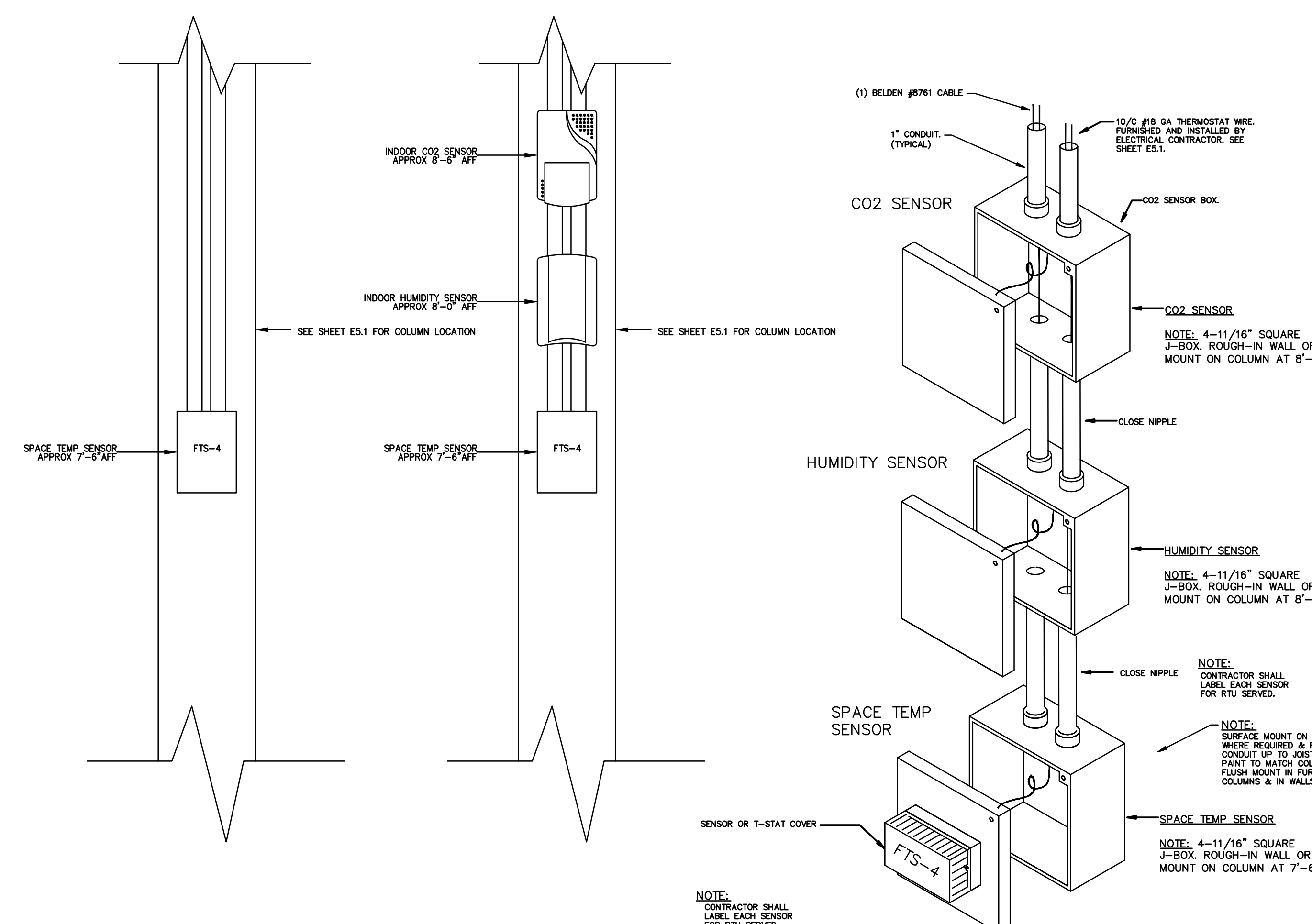
4 UNITIZED SWITCHGEAR ELEVATION
E3.1 N.T.S.

UNITIZED GEAR & LIGHTING CONTROL NOTES:

- UNITIZED GEAR IS AVAILABLE DIRECT FROM CPI. CALL 704-364-9029 TO REQUEST SITE SPECIFIC QUOTE.
- UNITIZED SWITCHGEAR IS A UL LISTED DEAD FRONT SWITCHBOARD.
- UNITIZED SWITCHBOARD REQUIRES A 4 TO 6 WEEK LEAD TIME.
- EC AND GC PLANS ARE IN THE BINDER NOTEBOOK INSIDE CPI DOOR.



10 TYPICAL DEVICE MOUNTING HEIGHT
E3.1 N.T.S.



SPACE TEMP SENSOR, HUMIDITY SENSOR, AND CO2 SENSOR DETAIL

11 T-STAT MOUNTING DETAIL
E3.1 N.T.S.

NOTE:
ALL SENSORS ARE MOUNTED TO COLUMNS ON THE SALES FLOOR AND MUST BE AFFIXED TO THE SURFACE OF THE COLUMN THAT FACES THE CENTER OF THE SALES AREA. ALL SENSORS ARE INSTALLED BY EMS VENDOR. CONTRACTOR SHALL INSTALL CONDUIT, BOXES, AND CONTROL CABLING AS SHOWN FOR FUTURE INSTALLATION OF SENSORS. MECHANICAL CONTRACTOR SHALL PROVIDE TEMPORARY T-STATS TO RUN THE UNITS PRIOR TO EMS INSTALLATION.

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Job Number: 2360

Date: 03.22.2024

Revisions:

Revisions:

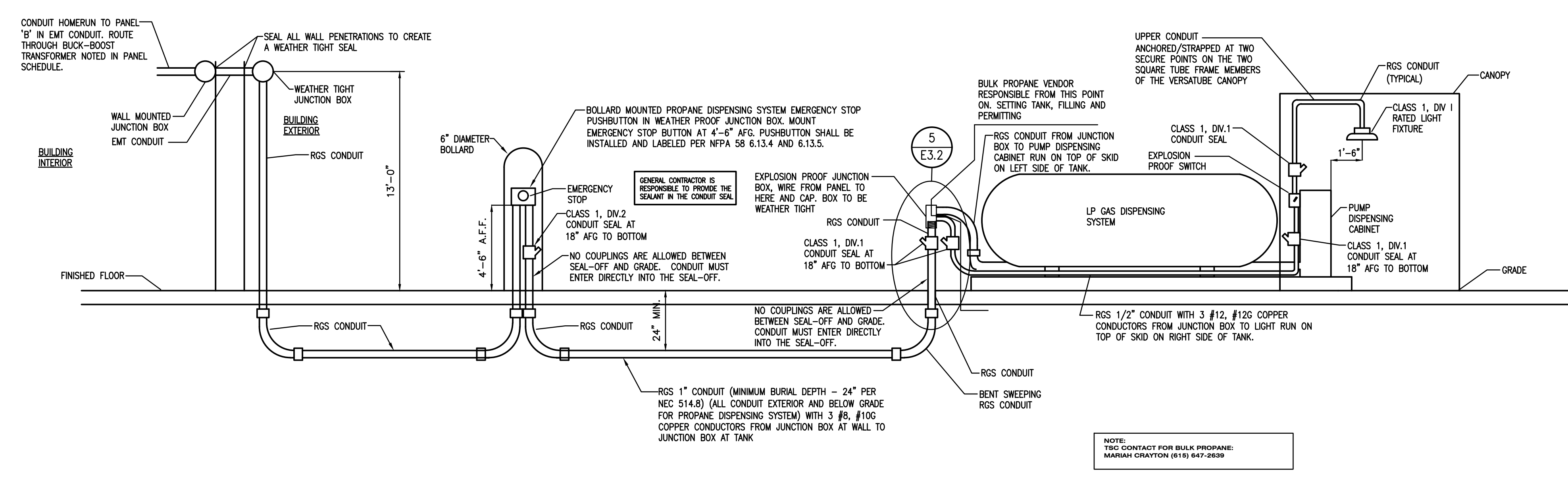
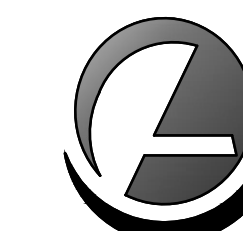
Revisions:

ELEC SYSTEM/VENDOR DETAILS

Sheet Number: **E3.1**



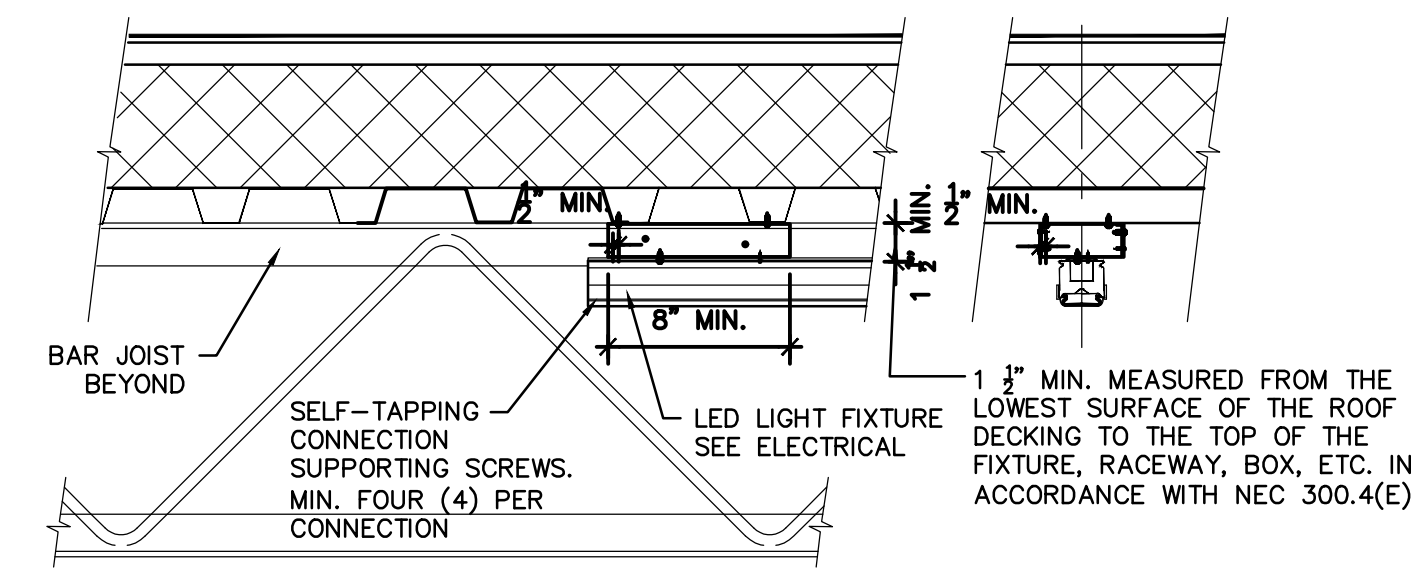
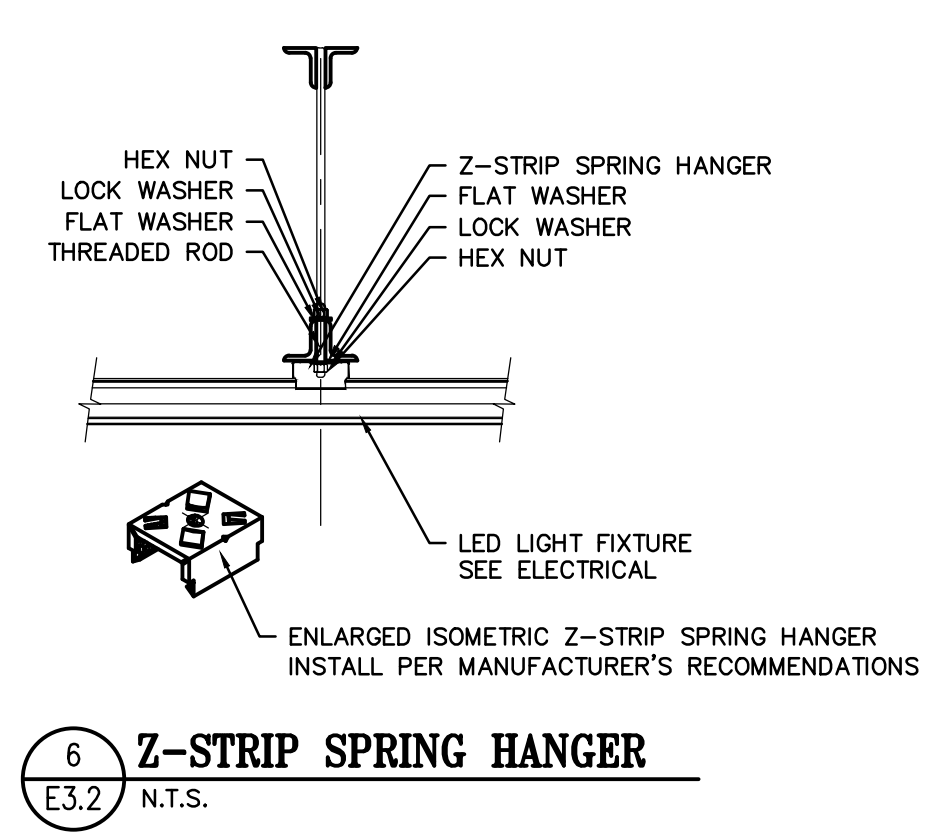
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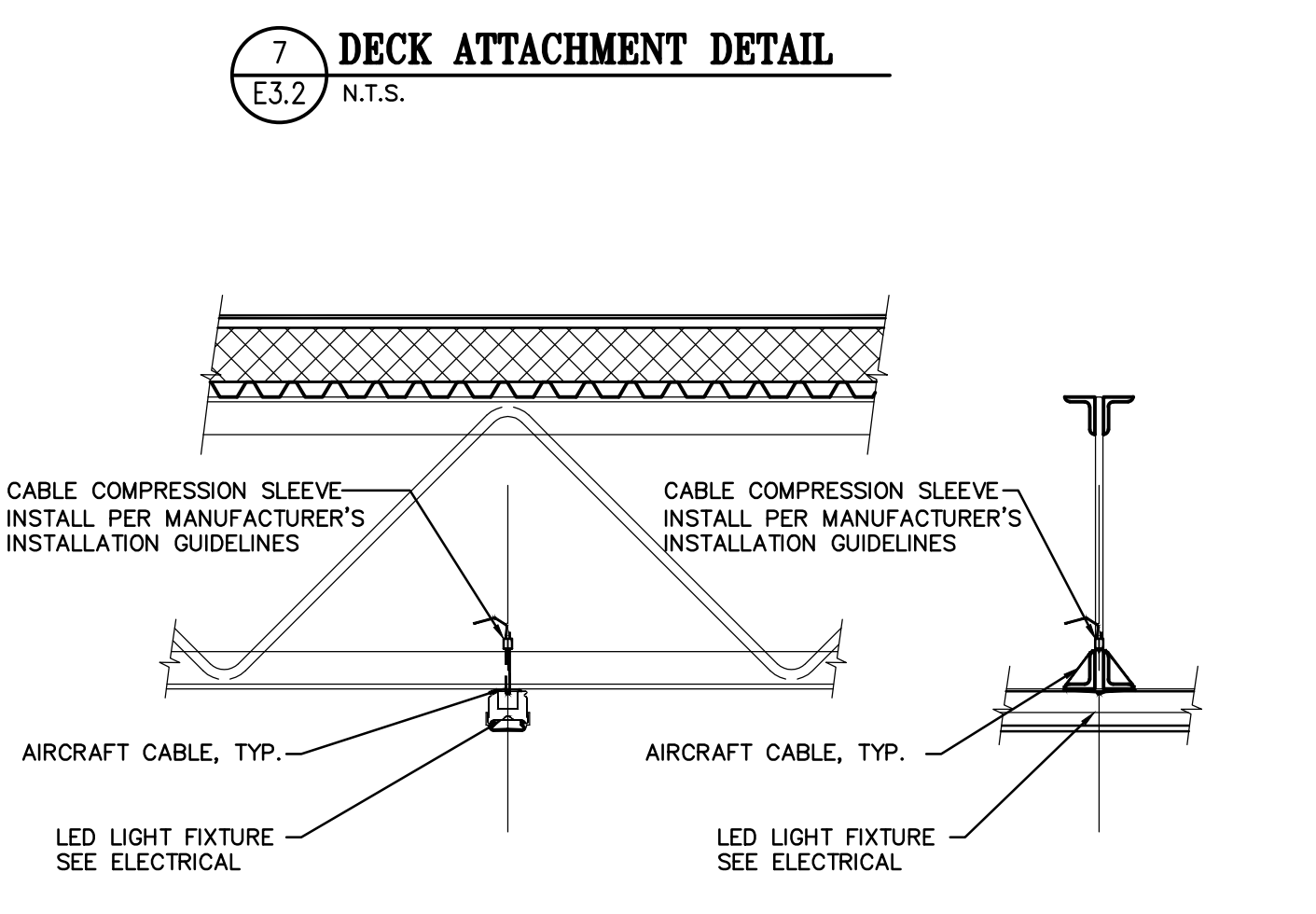
2 PROPANE DISPENSING SYSTEM DETAIL
 E3.2 N.T.S.

- DETAIL NOTES: (11/18.0 ONLY)**
- CONDUIT FROM BUILDING TO DISPENSING SYSTEM SHALL BE ROUTED MINIMUM 24" BELOW GRADE PER NEC ARTICLE 514.8.
 - ALL EQUIPMENT LOCATED WITHIN FIVE FEET OF TANK SHALL BE RATED FOR USE IN CLASS 1, DIVISION 1 HAZARDOUS LOCATIONS.
 - ALL EQUIPMENT LOCATED BETWEEN FIVE FEET OF TANK AND 30 FEET OF TANK SHALL BE RATED FOR USE IN CLASS 1, DIVISION 2 HAZARDOUS LOCATIONS.
 - ALL CONDUIT SHALL BE RGS. NO USE OF BLACK IRON PERMITTED. ALL FITTINGS ON RGS CONDUITS SHALL BE THERMO.
 - CONDUIT SEALS SHALL BE INSTALLED ON ALL CONDUITS THAT PASS INTO OR THROUGH THE CLASS 1, DIVISION 1 OR 2 HAZARDOUS BOUNDARIES WITHIN TEN FEET AFTER PENETRATION ABOVE GRADE ON EACH END OF CONDUIT PER NEC 514.9.
 - PROVIDE AND INSTALL (1) EXPLOSION PROOF JUNCTION BOX AT THE DISPENSING LINE. JUNCTION BOX TO BE COVER GRADE HINGE MODEL # 44462. INSTALL SUCH THAT BOX IS IN A VERTICAL POSITION SO THE MAXIMUM WIDTH IS 4-1/4". COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PROPANE DISPENSING VENDOR PRIOR TO ROUGH-IN. COORDINATE LOCATION OF CONDUIT ENTRIES WITH PROPANE DISPENSING VENDOR PRIOR TO ORDERING.
 - REFERENCE SHEET A-1 FOR EXACT LOCATION OF CONDUIT STUB-UP AT PROPANE TANK.

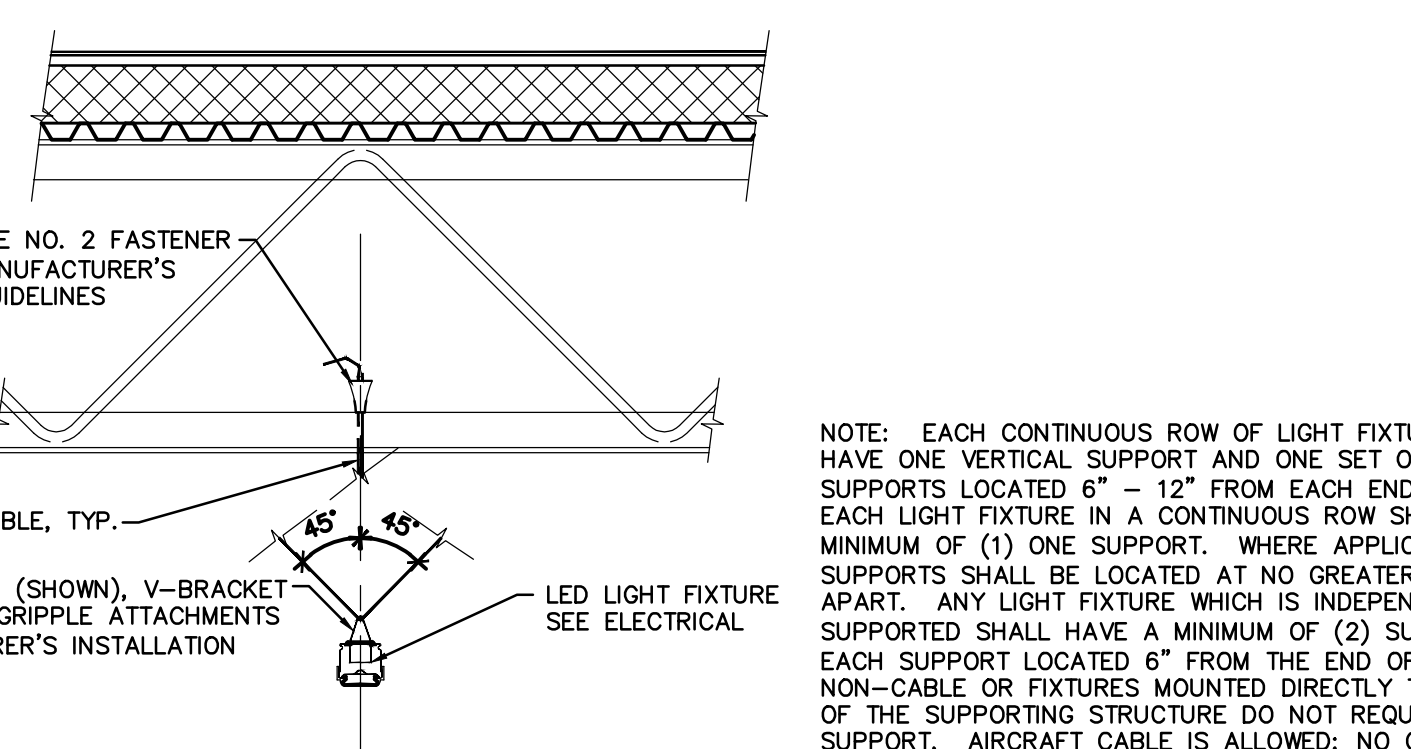
- PROPANE RESPONSIBILITY NOTES:**
- IF PROPANE IS DELIVERED PRIOR TO FIXTURE DATE:**
- GC IS RESPONSIBLE FOR INFRASTRUCTURE RELATED TO PROPANE TANK INSTALLATION.
 - GC IS RESPONSIBLE FOR ELECTRICAL PERMITTING AND FINAL CONNECTION TO PUMP DISPENSING CABINET.
 - BULK PROPANE VENDOR IS RESPONSIBLE FOR GAS PERMITTING OF THE TANK.
 - BULK PROPANE VENDOR IS RESPONSIBLE FOR INSTALLATION AND FINAL GAS CONNECTION AND INSPECTION OF THE TANK.
- IF PROPANE TANK IS DELIVERED AFTER FIXTURE DATE:**
- GC IS RESPONSIBLE FOR INFRASTRUCTURE RELATED TO PROPANE TANK INSTALLATION.
 - BULK PROPANE VENDOR IS RESPONSIBLE FOR ELECTRICAL PERMITTING AND FINAL CONNECTION TO PUMP DISPENSING CONTROL PANEL.
 - BULK PROPANE VENDOR IS RESPONSIBLE FOR GAS PERMITTING OF THE TANK.
 - BULK PROPANE VENDOR IS RESPONSIBLE FOR INSTALLATION AND FINAL GAS CONNECTION AND INSPECTION OF THE TANK.



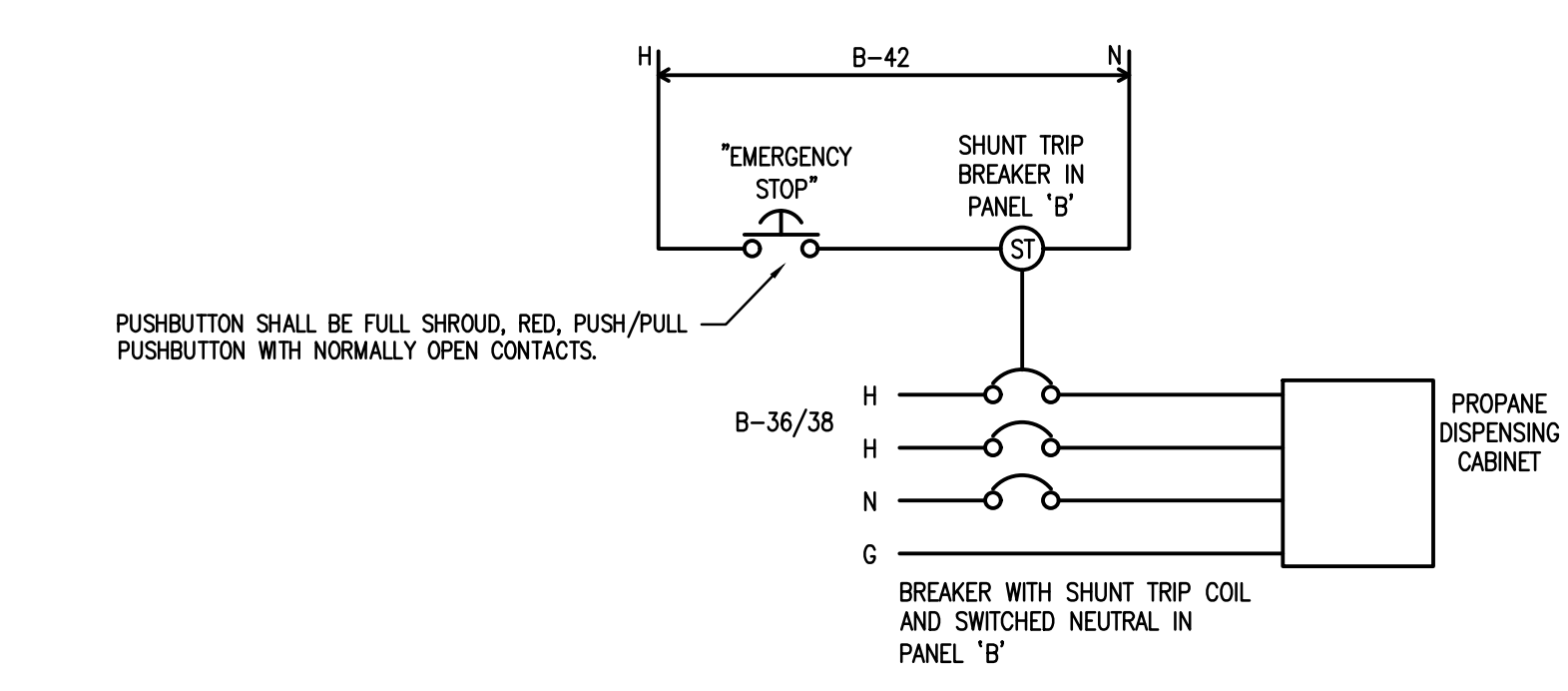
NOTE: SECURE PER LIGHT MANUFACTURER'S INSTALLATION GUIDELINES.



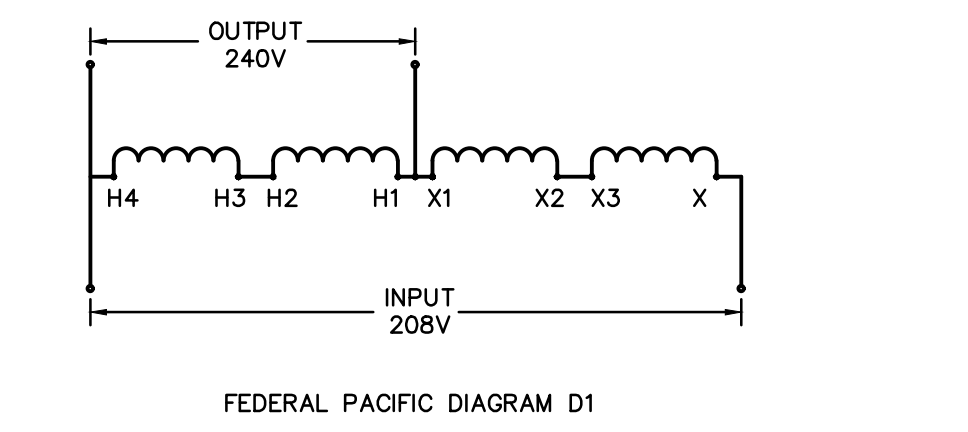
NOTE: SECURE PER LIGHT MANUFACTURER'S INSTALLATION GUIDELINES. FOR CONTINUOUS ROW MOUNTING, UTILIZE END PLATE COUPLER PER LIGHT MANUFACTURER'S INSTALLATION GUIDELINES.



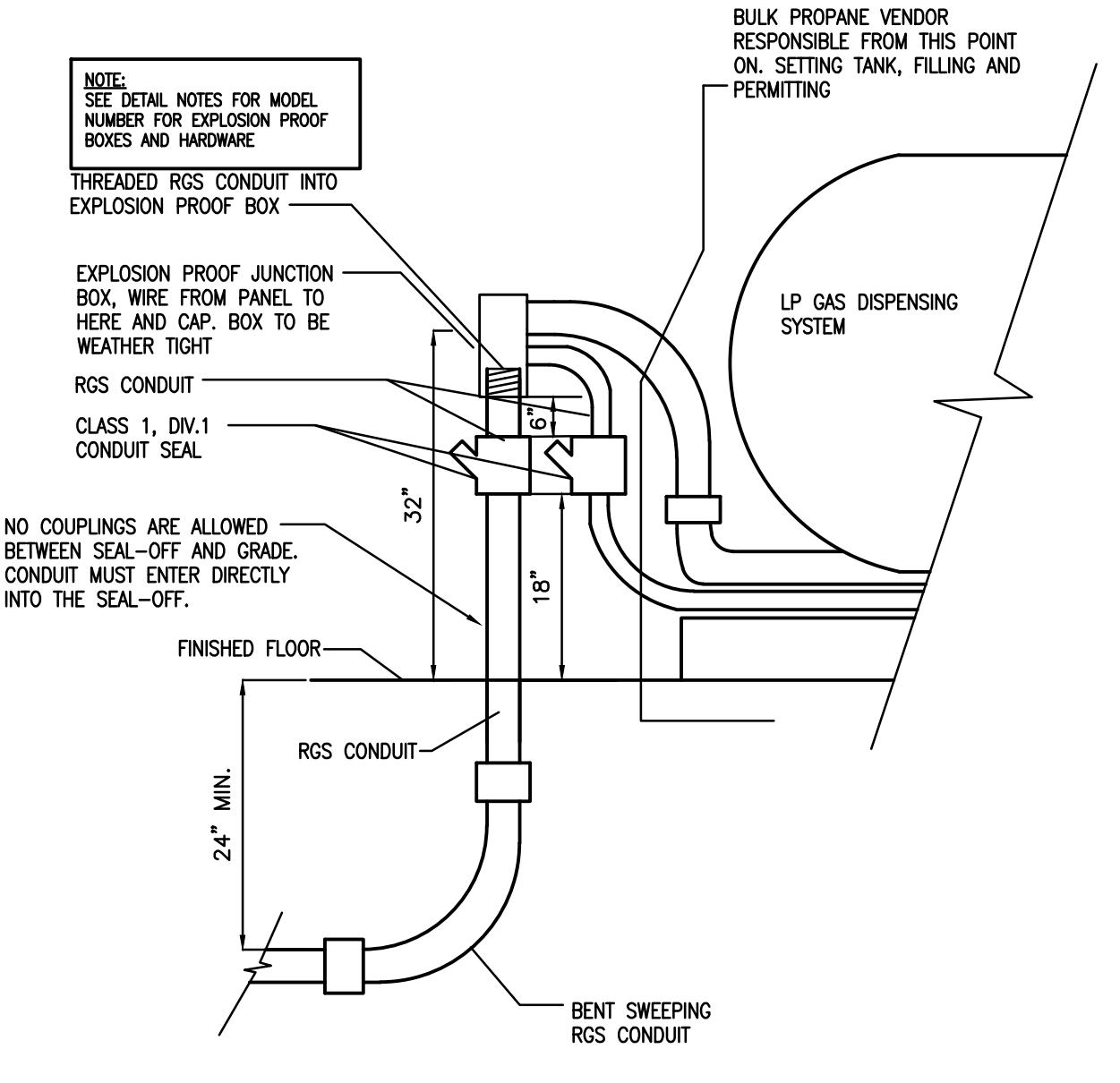
NOTE: EACH CONTINUOUS ROW OF LIGHT FIXTURES SHALL HAVE ONE VERTICAL SUPPORT AND ONE SET OF DIAGONAL SUPPORTS LOCATED 6\"/>



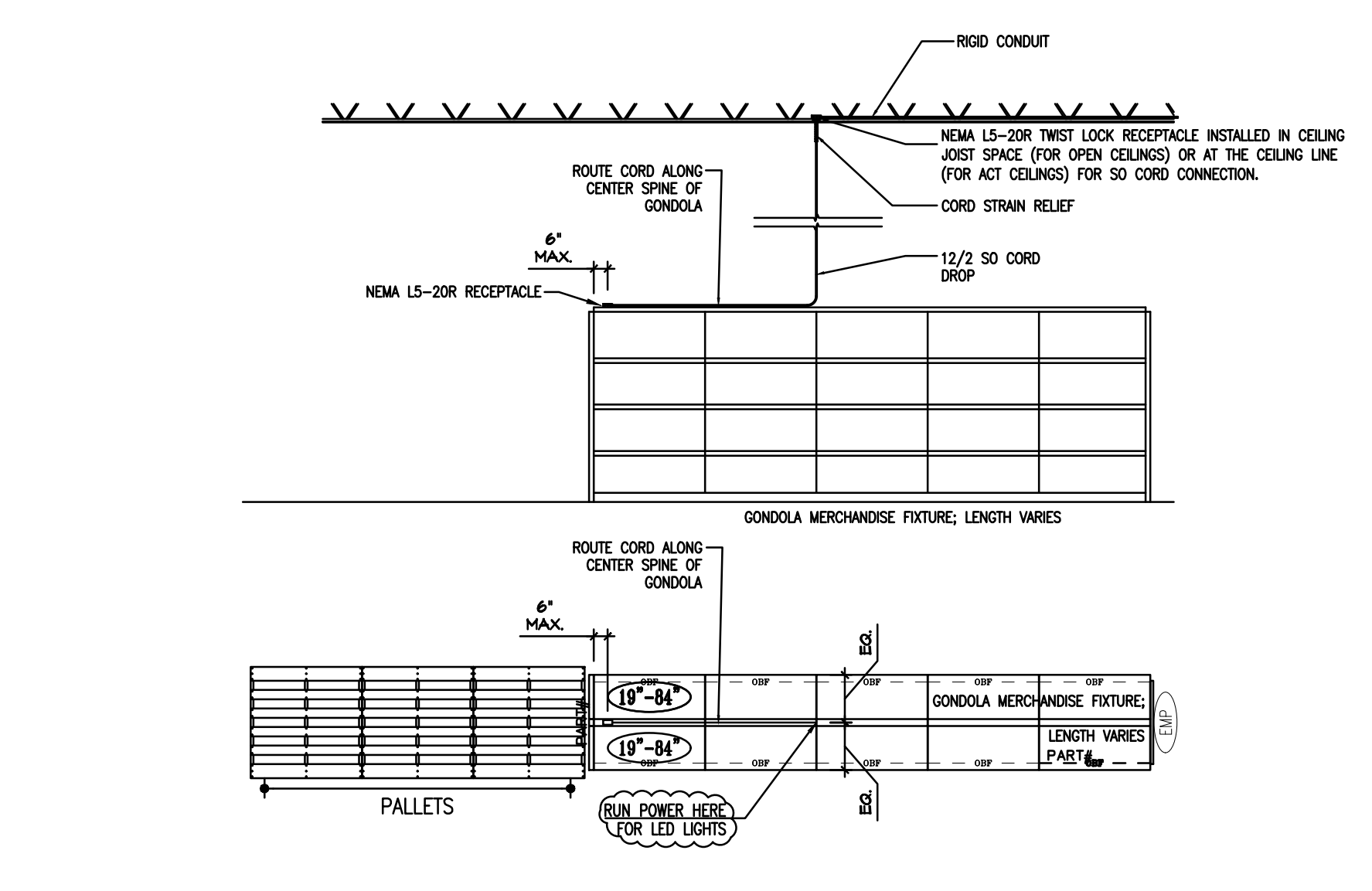
1 PROPANE DISPENSING SYSTEM CONTROL DIAGRAM
 E3.2 N.T.S.



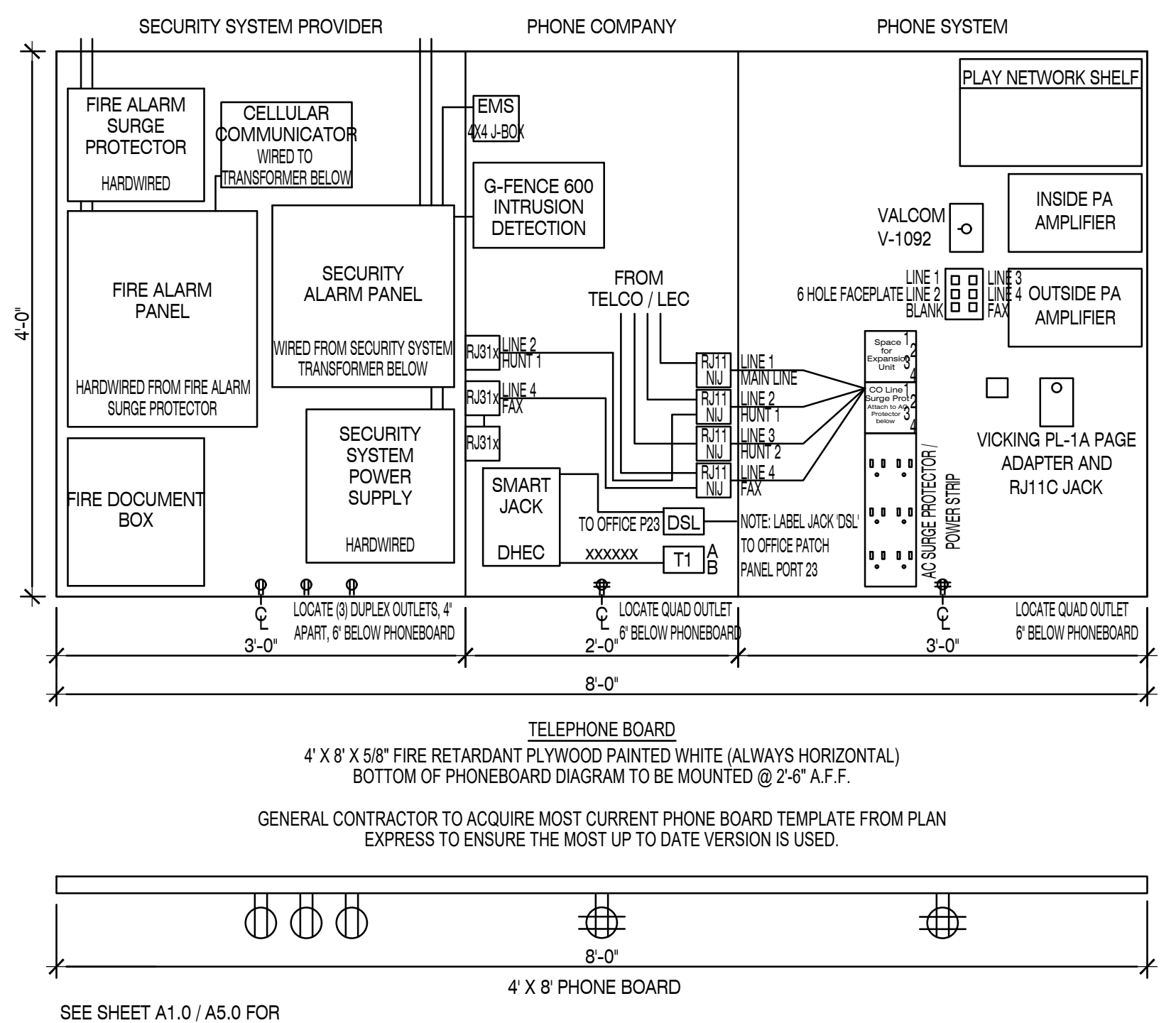
3 PROPANE DISPENSING SYSTEM BUCK-BOOST TRANSFORMER WIRING DIAGRAM
 E3.2 N.T.S.



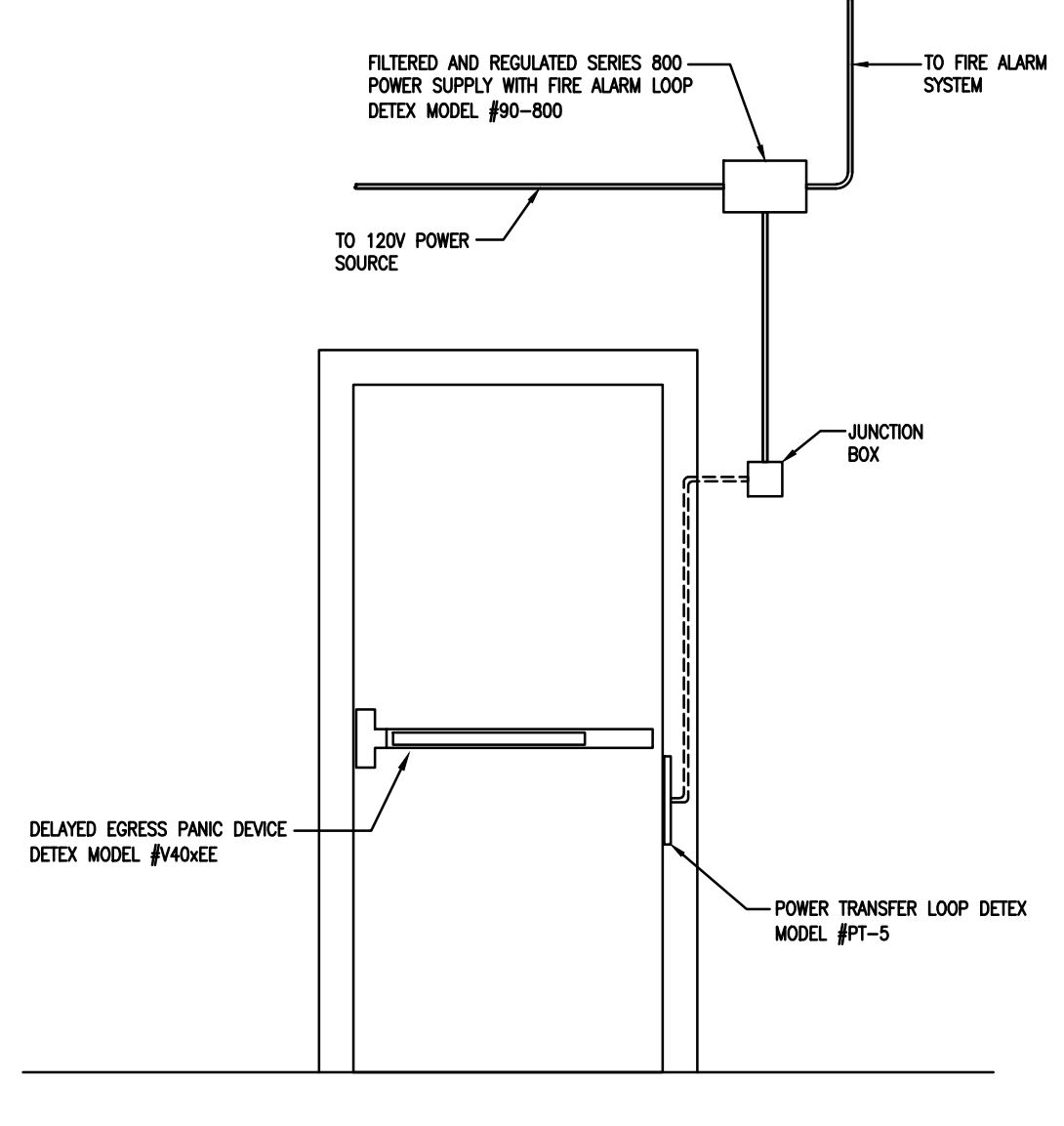
5 ENLARGED DETAIL
 E3.2 N.T.S.



10 ELECTRICAL DROP DETAIL
 E3.2 NO SCALE



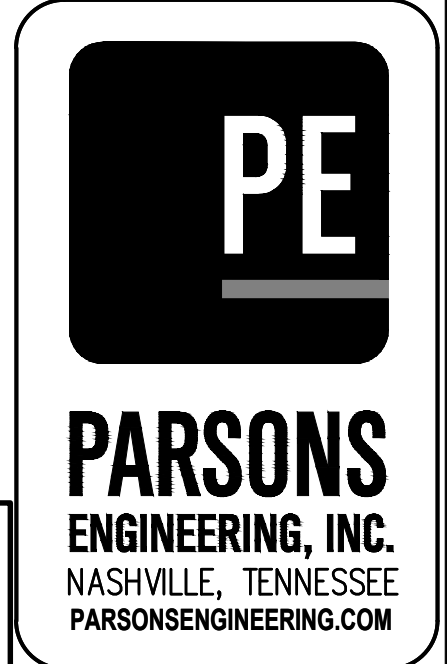
11 TELEPHONE BOARD DETAIL
 E3.2 NO SCALE



12 DETEX EXIT DEVICE DETAIL
 E3.2 NO SCALE

- DETAIL NOTES: (7/18.0 ONLY)**
- CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE DETEX HARDWARE MATERIALS TO BE ORDERED FROM SH PACE.
 - CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE VADAE DELAYED EGRESS DEVICE.
 - CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE 80-800 SERIES FILTERED POWER SUPPLY (DW TRANSFORMER MOUNTED IN THE CEILING LINE).
 - CONTRACTOR WIRES THE DELAYED EGRESS PANIC DEVICE THROUGH THE P1-5 POWER TRANSFER DEVICE MOUNTED ON THE ANGLE LED OF THE DOOR AND UP TO THE POWER SUPPLY TRANSFORMER.
 - FIRE ALARM VENDOR MAKES CONNECTION FROM THE FIRE LOOP CONDUCTORS ON THE 80-800 POWER SUPPLY TO THE FIRE ALARM PANEL.

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Job Number: 2360
 Date: 03.22.2024
 Revisions:
 Revisions:
 Revisions:
 ELEC SYSTEM/VENDOR DETAILS
 Sheet Number: **E3.2**

ELECTRICAL SPECIFICATIONS

SECTION 16000 GENERAL PROVISIONS

PART 1 GENERAL
1.01 REFERENCE STANDARDS
A. NFPA 70 NATIONAL ELECTRICAL CODE
B. NFPA 101 LIFE SAFETY CODE
C. ALL OTHER APPLICABLE STATE AND LOCAL CODES.
1.02 SUBMITTALS
A. SHOP DRAWINGS:
1. SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, SIX COPIES OF COMPLETE DESCRIPTIVE DATA ON ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY THESE SECTIONS OF THIS SPECIFICATION...

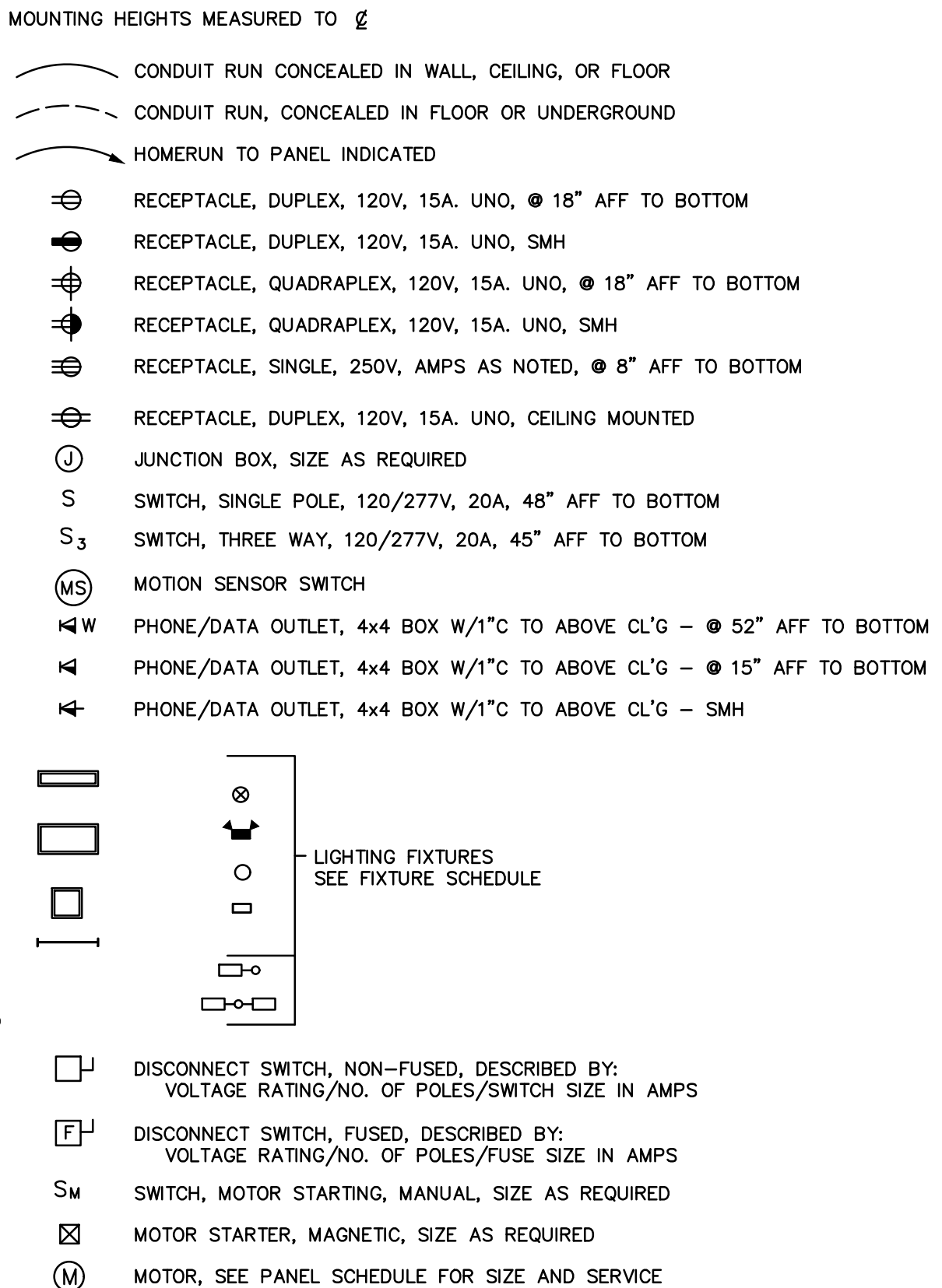
SECTION 16400 SERVICE AND DISTRIBUTION
PART 1 GENERAL
1.01 SUBMITTALS
A. UNINITIALIZED SWITCHGEAR
B. DISCONNECT SWITCHES
C. TRANSFORMERS
D. FUSES
PART 2 PRODUCTS
2.01 UNINITIALIZED SWITCHGEAR
A. UNINITIALIZED SWITCHGEAR SHALL CONTAIN BREAKERS AS DESCRIBED ON THE PANEL SCHEDULES. UNINITIALIZED SWITCHGEAR SHALL BE RATED FOR THE SHORT CIRCUIT INTERRUPTING CAPACITY INDICATED AND SERIES COMBINATION RATINGS MUST BE UL RECOGNIZED...

PART 3 EXECUTION
3.01 GENERAL
A. VISIT PROJECT SITE BEFORE SUBMISSION OF BID AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND LOCATIONS OF EXISTING UTILITIES.
B. THE ENTIRE INSTALLATION SHALL BE MADE IN A NEAT MANNER BY PERSONS SKILLED IN THE ELECTRICAL TRADE AND SHALL BE IN ACCORDANCE WITH THE REFERENCE STANDARDS LISTED ABOVE.
C. MAKE POWER CONNECTIONS TO AIR CONDITIONING EQUIPMENT AND OWNER FURNISHED EQUIPMENT...

SECTION 16050 BASIC ELECTRICAL MATERIALS AND METHODS
PART 1 GENERAL
1.01 SUBMITTALS
A. LIGHTING FIXTURES
PART 2 PRODUCTS
2.01 GENERAL
A. PROVIDE LIGHTING FIXTURES AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE OF SIZES, TYPES, RATINGS, AND WITH FEATURES INDICATED. FIXTURES SHALL BE PURCHASED FROM NATIONAL ACCOUNT VENDOR LISTED ON LIGHTING FIXTURES SCHEDULE...

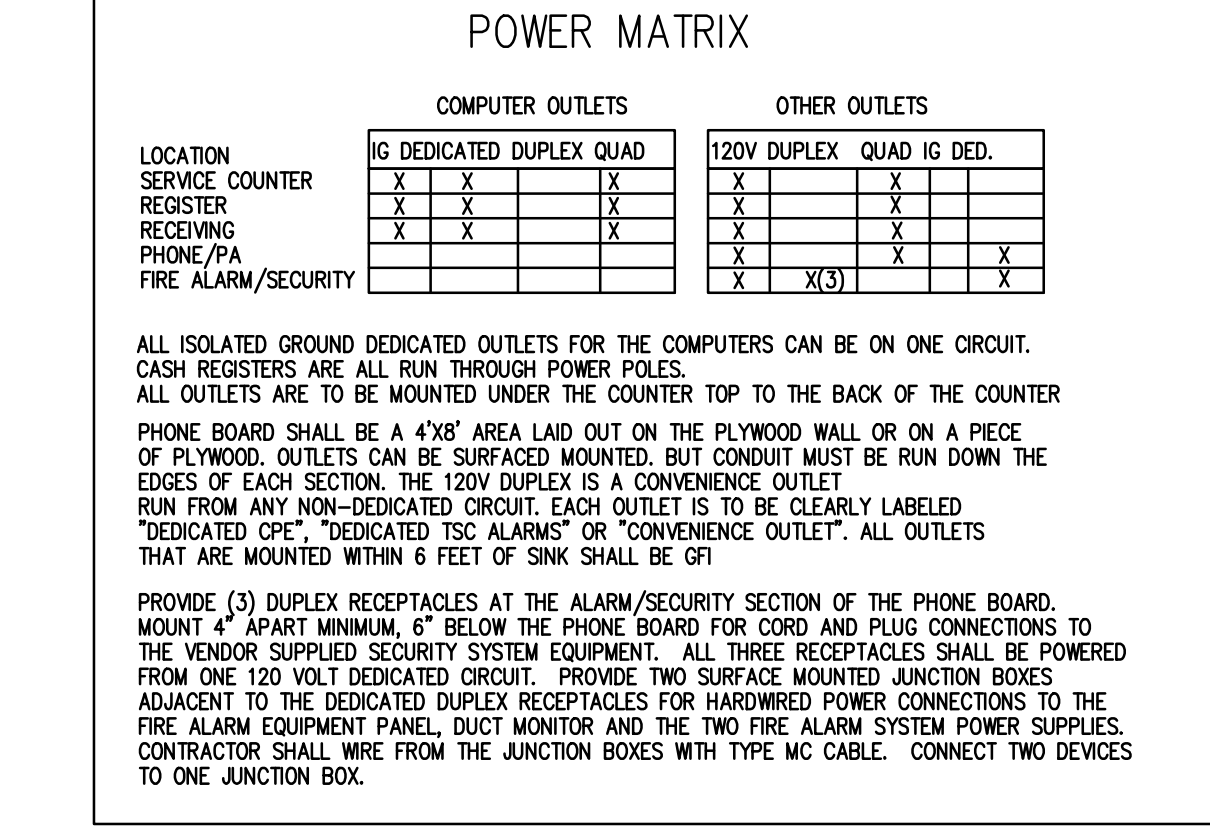
SECTION 16060 ELECTRICAL MATERIALS AND METHODS
PART 1 GENERAL
1.01 SUBMITTALS
A. LIGHTING FIXTURES
PART 2 PRODUCTS
2.01 GENERAL
A. PROVIDE LIGHTING FIXTURES AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE OF SIZES, TYPES, RATINGS, AND WITH FEATURES INDICATED. FIXTURES SHALL BE PURCHASED FROM NATIONAL ACCOUNT VENDOR LISTED ON LIGHTING FIXTURES SCHEDULE...

ELECTRICAL LEGEND



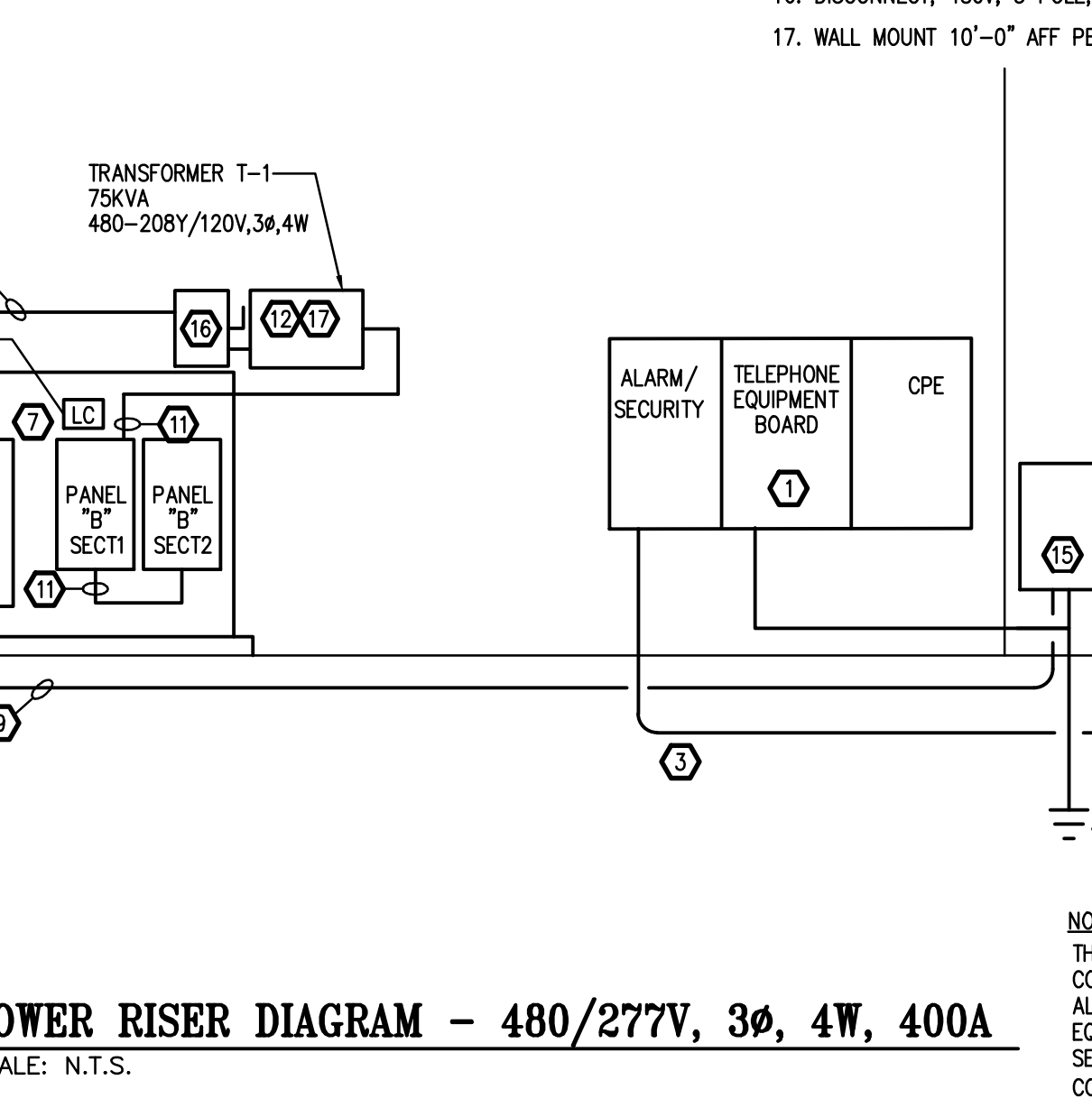
ABBREVIATIONS:

Table of abbreviations for electrical symbols including AF (above finished floor), BRKR (breaker), CLG (ceiling), and others.



RISER NOTES:

- 1. FURNISH AND INSTALL 4" x 8" x 3/4" PLYWOOD TELEPHONE EQUIPMENT BACKBOARD, PAINTED WHITE. FURNISH AND INSTALL GROUNDING TERMINAL STRIP ON BACKBOARD...
2. FURNISH AND INSTALL GROUNDING ELECTRODE AND GROUNDING CONDUCTOR FOR SERVICE ENTRANCE PANELS...
3. FURNISH AND INSTALL TWO 2" SCHEDULE 40 PVC CONDUITS FOR TELECOMMUNICATIONS SERVICE ENTRY RACKS...

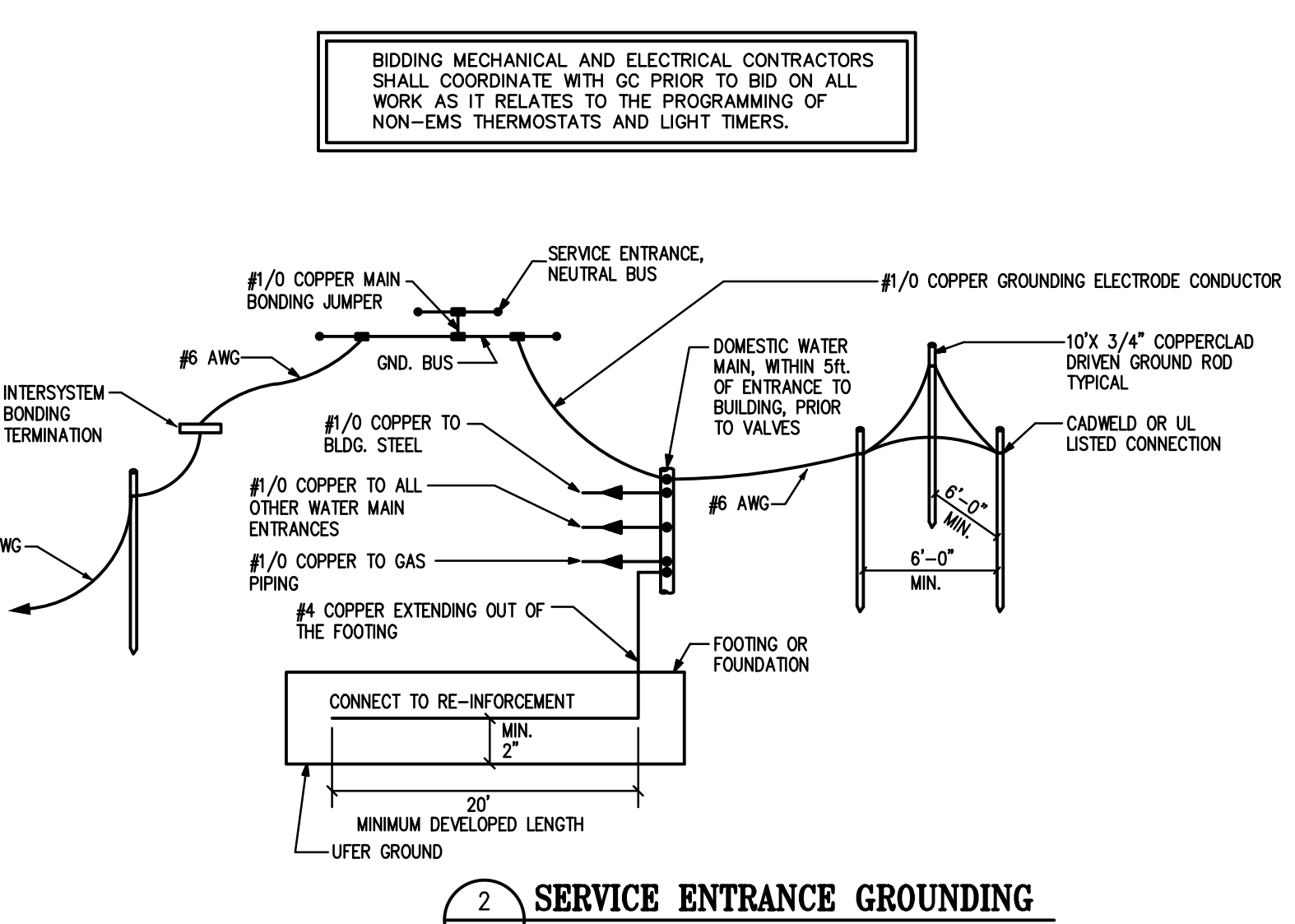


GENERAL ELECTRICAL NOTES

- 1. VISIT PROJECT SITE BEFORE SUBMISSION OF BID AND BECOME FAMILIAR WITH EXISTING CONDITION AND LOCATIONS OF UTILITIES.
2. COORDINATE INSTALLATION OF NEW SERVICE WITH LOCAL ELECTRIC UTILITY COMPANY. PROVIDE TRENCHING, CONDUIT, CONDUIT, METER BASE, CONCRETE PAD, AND OTHER ITEMS AS REQUIRED...
3. COORDINATE INSTALLATION OF TELEPHONE SERVICE CONDUIT WITH LOCAL TELEPHONE COMPANY...

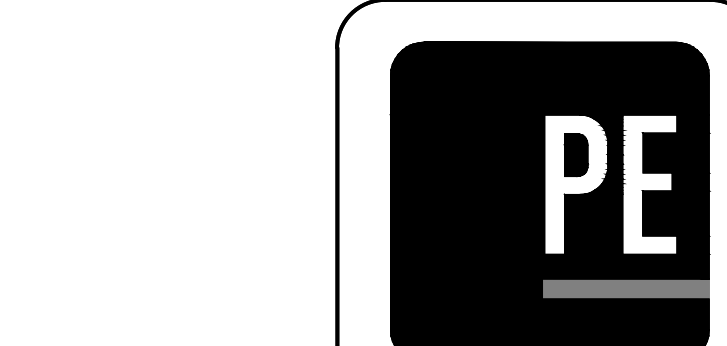
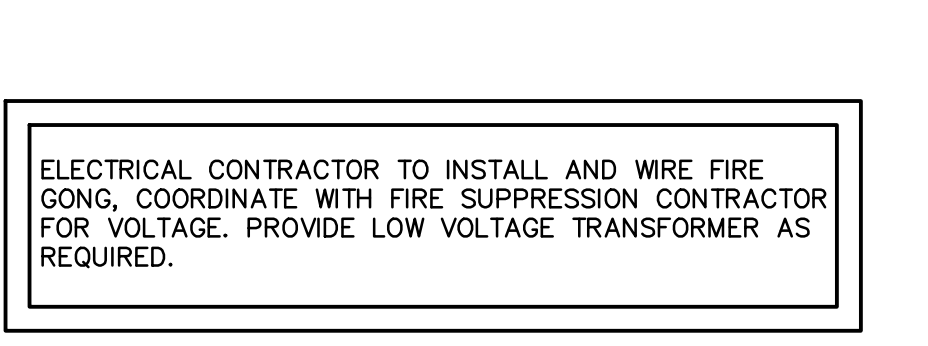
TRACTOR SUPPLY LIGHTING & HEATING SCHEDULE

Table showing lighting and heating schedules for Tractor Supply, including ON/OFF times and temperatures for various zones.



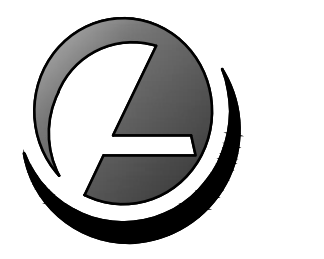
PANEL "A" table listing electrical loads, wire sizes, and breaker ratings for various equipment like L-SALES, L-TOILETS, and L-SECURITY.

PANEL "B" table listing electrical loads, wire sizes, and breaker ratings for equipment like R-TOILETS, R-MANAGER OFFICE, and R-TOILET POS.

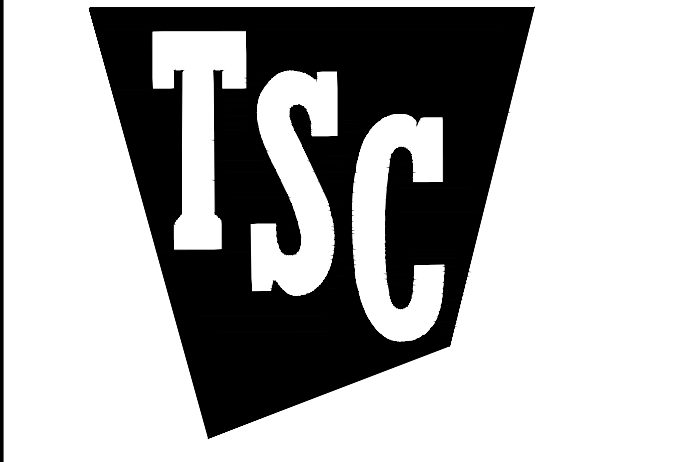


NOTE: THE CONTRACTOR SHALL COORDINATE THE SYSTEM VOLTAGE AND ALL ASSOCIATED COSTS TO BRING SERVICE AS INDICATED TO BUILDING. CONTRACTOR SHALL INCLUDE ALL COSTS IN BID AND SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND EQUIPMENT PROVIDED BY OTHER TRADES...

PRELIMINARY NOT FOR CONSTRUCTION. PARSONS ENGINEERING, INC. NASHVILLE, TENNESSEE. PE logo.

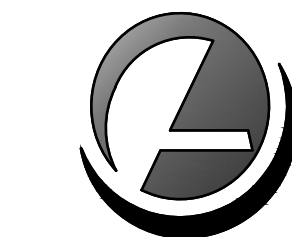


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TRACTOR SUPPLY COMPANY
LILLINGTON NORTH CAROLINA

Job Number: 2360
Date: 03.22.2024
Revisions:
Revisions: ELEC LEGEND & DETAILS
Sheet Number: E4.0



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Architecture
Planning
Interior Architecture

TSC LWL CONTROL WIRING AND EMS PREMISE:

ALL LOW VOLTAGE WIRING (LWV) EXCEPT FOR TEMPORARY AND PERMANENT THERMOSTATS FOR HVAC) TO BE INSTALLED BY THE LWV VENDOR. THIS INCLUDES THE DOOR BELLS. GC'S ARE RESPONSIBLE TO COMMUNICATE, TO MANAGE, AND TO INCLUDE THIS IN THEIR COSTS.

Cable Specifications:
All cable must be jacketed in a fire-retardant material, shielded (unless otherwise noted) and wire in color. If a specific cable is not available, Contractor may substitute for a cable with more conductors (i.e. 2 conductor can be substituted with 3 conductor of the same ratings).

Maximum cable length shall not exceed 330 feet.

Do not route cables over or touching a fluorescent light. Cross over fluorescent lights perpendicular to the length of the fixture.

All cables shall be supported from the ceiling just above. Do not lay cables on the grid of a drop ceiling.

Type
one twisted pair - 18ga - shielded - plenum rated - white jacket
one CAT5 cable

Preface: This store will be wired for a future EMS system This contractor shall price in the base bid wiring.

LV1 G.C. shall install a 2" EMT conduit into the top of the future EMS section of the unitized switchboard (hereafter referred to as the EMS cabinet) so as to provide EMS cable access to the panel without having to route the cables past substantial line voltage wire.

LV2 G.C. shall provide a 3/4" (inch) trade size rigid conduit or seal tight from the RTU control panel stubbed into the TSC space for low voltage wiring access.

LV3 Tractor Supply shall provide EMS jack in one of 6+ up boxes in the IT CLOSET and an orange patch, with white boot, cable connected to port 23 on the 2960 switch and run to port #46 on the patch panel.

LV4 G.C. shall install a recessed single gang switch box in corridor next to manager's office - see mechanical drawings for exact placement. This box should be mounted 60" AFF. This box is for installation of the RTU5 thermostat / future EMS control thermostat.

LV5 G.C. shall install a double gang switch box (4 #4 with the appropriate adapter plates) on the column closest to each sales floor RTU 1 and 2 for the purpose of installing the Thermostat / future EMS thermostat (see LV6 for specifics about RTU 3 and 4). If HVAC is needed to condition the building prior to the installation of the LWV by the TSC LWV vendor, the G.C. is to make HVAC units operate using temporary bi-metal thermostats to be hung in return air duct. This allows for conditioning of the building temporarily until the TSC LWV vendor installs permanent LWV per the timing and action calendar contained within the set of plans. Once the LWV vendor installs the LWV, the G.C. is responsible to remove the temporary bi-metal thermostats and make final connections of the thermostats to the newly installed LWV as mentioned above.

LV6 G.C. shall install 3 double gang switch boxes (4 #4 with the appropriate adapter plates) on the column closest to RTU 3 and 4. These 3 boxes shall be mounted vertically, one above the other, separated by no less than 6" with the bottom box mounted at a height of approximately 7' 6" AFF and MUST be mounted to the surface of the column that faces the center of the building so as to shield the sensor from direct supply air. A quantity of (2) 1" (inch) conduits shall be installed above & between the boxes so as to provide a path for continuous wire pull from the overhead into the bottom most box. These boxes are for (from top to bottom) the installation of the CO2 sensor, the humidity sensor, and the RTU thermostat / future EMS thermostat in the bottom box each of which requires a dedicated double gang box. "Doubling up" the sensors in a 2 gang box is not acceptable.

LV7 G.C. shall install a single gang box and a 3/4" EMT conduit for the vestibule Unit Heater and the greenhouse's Unit Heater. The conduits shall be installed from the ceiling deck to each unit heater's thermostat designated mounting location in the vestibule and stockroom. G.C. is to make each unit heater operate using the thermostats provided with the unit heaters and installed wiring.

LV8 G.C. shall install a 3/4" EMT conduit from the ceiling deck to 12" (inches) AFF so as to provide future EMS cable access for routing the LV cable from above the dock door to the finished floor. The conduit is to be installed directly adjacent to the dock door, within 2" (inches) of the rollup door track.

LV9 J-box for power to the series 800 power supply mounted above the ceiling in line with the hinge side of the door. Provide a 1/2" conduit from the power supply to the electric power transfer device (PT-5) of the door frame, concealed mortise mount. Provide and pull two #18 AWG wire from the power supply to the power transfer device and into the door. Contractor to complete wiring and connection of the delayed rim exit device after new door and rim exit hardware is installed. Coordinate all requirements with supplier/installer. See detail 12/E3.2.

LV10 LWV vendor shall install a total of (1) 18/2 SHIELDED plenum cable. The cable shall be pulled continuous from the future "EMS Cabinet" in the electrical switchgear to each Unit Heater's & RTU's thermostat gang boxes location (see LV5 and LV6 for specifics) in turn (Daisy Chain) starting with the Unit Heater / RTU thermostat mounting location closest to the electrical room. The wire shall be pulled into the RTU's designated gang box, leaving a 5' coil. Label both un-spliced ends of this cable pull as "TStat COMM".

LV11 LWV vendor shall install a total of (1) 18/10 NON-SHELEDDED plenum cable. The cable shall be pulled from each RTU's control cabinet to the RTU specific thermostat gang box, leaving a 5' coil at both ends. Label both ends of this cable "RTUx CONTROL", where x is the RTU #.

LV12 LWV vendor shall install a total of (1) 18/10 NON-SHELEDDED plenum cable. The cable shall be pulled from each RTU's supply hard air duct, just below ceiling, to the corresponding RTU's thermostat gang box, leaving a 10' coil at both ends. Label both ends of this cable "RTUx SUPPLY", where x is the RTU #.

LV13 LWV vendor shall install a total of (1) 18/10 NON-SHELEDDED plenum cable. The cable shall be pulled from the EMS cabinet to the future "WeatherStation", leaving a 5' coil at both ends. Label both ends of this cable "OX TEMP".

LV14 LWV vendor shall install a total of (1) 18/10 NON-SHELEDDED plenum cable. The cable shall be pulled from the EMS cabinet to the future "WeatherStation", leaving a 5' coil at both ends. Label both ends of this cable "OH HUMID".

LV15 LWV vendor shall install a total of (1) 18/10 NON-SHELEDDED plenum cable. The cable shall be pulled from the EMS cabinet to the future "WeatherStation", leaving a 5' coil at both ends. Label both ends of this cable "OUTDOOR LIGHT LEVEL".

LV16 For each indoor humidity sensor specified, the LWV vendor shall install a total of (1) 18/4 NON-SHELEDDED plenum cables. The cables shall be pulled from the EMS cabinet to the top single gang box installed as per note LV6, leaving a 5' coil at both ends. Label both ends of this cable "INSIDE HUMID #1" and, if installed, "INSIDE HUMID #2".

LV17 LWV vendor shall install a total of (1) 18/2 NON-SHELEDDED plenum cable. The cables shall be pulled from the EMS cabinet to the next to the top single gang box installed as per note LV6, leaving a 5' coil at both ends. Label both ends of this cable "CO2".

LV18 LWV vendor shall install a total of (1) 18/2 NON-SHELEDDED plenum cable. The cable shall be pulled from the EMS cabinet to the vaccine case, leaving a 5' coil at both ends. Label both ends of this cable "VACCINE TEMP". Coordinate with the GC to determine the exact location. NOTE: IN THE EVENT THAT THE FINAL LOCATION OF THE ANIMAL HEALTH CASE IS UNKNOWN, LEAVE A 50' COIL OF CABLE IN THE APPROXIMATE LOCATION.

LV19 LWV vendor shall install a total of (1) 18/4 NON-SHELEDDED plenum cable. The cables shall be pulled from the EMS cabinet to the alarm installer's junction box labeled "EMS/SI ALARM INTERFACE" (located on the telephone board, beside the security alarm panel), leaving a 5' coil of each at both ends. Label both ends of each these cables "OCCUPANCY" and "ALL LIGHTS ON" respectively. If the security system installer has not installed this junction box, install and label these cables leaving a 15' loop of each at the ceiling joist on the vicinity of the building security system equipment.

LV20 ALARM VENDOR shall install a total of two twisted pair, 18ga plenum cables (Windy City # 002320-S or equivalent). The cables shall be pulled from the Security Panel to the junction box labeled "EMS/SI ALARM INTERFACE" (located on the telephone board, at the designated location beside the security alarm panel). ALARM VENDOR to terminate this wiring to the appropriate security system "ARM/DISARM" and "ALARM" outputs to the corresponding terminals within the "EMS/SI Alarm Interface" junction box (installed by the LWV vendor). If the LWV Vendor has not installed this junction box, ALARM VENDOR to install and label their cables leaving a 5' loop at the designated location of the EMS/SI ALARM interface on the telephone backboard.

LV21 LWV vendor shall install a total of (1) 18/2 NON-SHELEDDED plenum cable. The cable shall be pulled from the EMS cabinet through the EMT conduit installed for dock door monitoring, leaving a 5' coil at both ends. Label both ends of this cable "DOCK DOOR". This is used for future EMS monitoring and is in addition to the cabling required for the security system door monitoring. This EMS cable should be pulled down through the conduit that is installed to monitor the dock door via the EMS (see LV8). Coordinate with the GC to determine the exact location. NOTE: IN THE EVENT THAT THE FINAL LOCATION OF THE DOCK DOOR EMS CONDUIT IS UNKNOWN, LEAVE A 50' COIL OF CABLE ABOVE THE DOCK DOOR.

LV22 LWV Vendor to install a total of (1) 18/4 NON-SHELEDDED plenum cable for each unit heater. The cable shall be pulled from each Unit Heater's control cabinet to the Unit Heater's specific thermostat gang box, leaving a 5' coil at both ends. Label both ends of this cable "UH Control". Note: In the event that the location of the unit heater is unknown, leave a 50' coil of cable at this location.

LV23 LWV VENDOR to provide a CAT5 cable run from the patch panel in the IT CLOSET to the future EMS cabinet location.

PUBLIC ADDRESS SYSTEM:

GENERAL NOTES:

- A. TSC SHALL FURNISH & INSTALL THE PUBLIC ADDRESS SYSTEM
- B. LWV VENDOR SHALL PROVIDE ALL SPEAKER WIRING. SPEAKER WIRING SHALL BE 18AWG / 2 CONDUCTOR WITH WHITE JACKETS.
- C. ALL CABLES ROUTED EXPOSED IN CEILING JOIST SHALL BE RUN PERPENDICULAR AND PARALLEL TO THE CEILING JOIST ORIGINATING FROM TELEPHONE BOARD.
- D. PUBLIC ADDRESS SYSTEM DEVICES SHOWN FOR REFERENCE ONLY. GENERAL CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOXES AND RACEWAYS PER THE PUBLIC ADDRESS SYSTEM VENDOR RECOMMENDATIONS. PUBLIC ADDRESS SYSTEM DEVICES FURNISHED AND INSTALLED BY THE SYSTEM VENDOR.
- E. LWV VENDOR SHALL BE RESPONSIBLE FOR DETERMINING IF CABLES SHALL BE PLENUM RATED TO MEET CODES.

PUBLIC ADDRESS SPEAKER CABLE: (1) (2)

1. PROVIDE A BLACK 4" X 4" WEATHERPROOF JUNCTION BOX AT THE EXTERIOR SPEAKER LOCATION MOUNTED 13"-0" AFF OR ABOVE THE AWNING. PROVIDE A SLEEVE THRU WALL TO THE INTERIOR 4" X 4" JUNCTION BOX LOCATED ON THE INTERIOR WALL. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
2. PROVIDE JUNCTION BOX AND CONDUIT (1" EMT) FROM EXTERIOR SPEAKER TO THE RETAIL SALES INTERIOR WALL.

KEYED NOTES:

- 1 JUNCTION BOX ON WALL WITH 1" CONDUIT STUBBED OUTSIDE FOR SPEAKER MOUNTING. COORDINATE EXACT REQUIREMENTS WITH PUBLIC ADDRESS SYSTEM PRIOR TO ROUGH-IN. ROUTE ONE TWO CONDUCTOR #18 AWG SPEAKER WIRE FROM JUNCTION BOX TO TELEPHONE BOARD. COIL 6 FEET OF SPEAKER WIRE OUTSIDE OF BUILDING AT PROPOSED SPEAKER LOCATION. PROVIDE 20 FEET OF CABLE AT THE CEILING ABOVE THE TELEPHONE BOARD. COIL 15 FEET OF CABLE AND SUSPEND 10 FEET AFF. TYPICAL OF 2 LOCATIONS.
- 2 LOCATION IN BAR JOIST FOR PUBLIC ADDRESS SPEAKER. ROUTE ONE TWO CONDUCTOR #18 AWG SPEAKER WIRE BETWEEN LOCATIONS LEAVING SIX FEET OF COILED WIRING AT EACH LOCATION FOR CONNECTION OF SPEAKERS. COORDINATE EXACT REQUIREMENTS WITH PUBLIC ADDRESS SYSTEM PRIOR TO ROUGH-IN. HOME RUN SPEAKER CABLE FROM LAST DEVICE LOCATION AS SHOWN AND PROVIDE 20 FEET OF CABLE AT THE CEILING ABOVE THE TELEPHONE BOARD. COIL 15 FEET OF CABLE AND SUSPEND AT 10 FEET AFF.
- 3 LOCATION IN SUSPENDED CEILING FOR PUBLIC ADDRESS SPEAKER. ROUTE ONE TWO CONDUCTOR #18 AWG SPEAKER WIRE BETWEEN LOCATIONS LEAVING SIX FEET OF COILED WIRING AT EACH LOCATION FOR CONNECTION OF SPEAKERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECTURAL REFLECTED CEILING PLAN AND THE PUBLIC ADDRESS SYSTEM INSTALLER PRIOR TO ROUGH-IN. HOME RUN SPEAKER CABLE FROM LAST DEVICE AS SHOWN AND PROVIDE 20 FEET OF CABLE AT THE CEILING ABOVE THE TELEPHONE BOARD. COIL 15 FEET OF CABLE AND SUSPEND AT 10 FEET AFF.

LOW VOLTAGE DOOR BELL SYSTEM:

GENERAL NOTES:

- A. ALL LOW VOLTAGE WIRING BY LWV VENDOR (DOOR BELL, ETC.) SHALL BE 18AWG / 2 CONDUCTOR WITH WHITE TEFLON JACKET IN CONDUIT TO CEILING AND EXPOSED ALONG CEILING STRUCTURE.
- B. ALL CABLES ROUTED EXPOSED IN CEILING JOIST SHALL BE RUN PERPENDICULAR AND PARALLEL TO THE CEILING JOIST.
- C. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF CABLES SHALL BE PLENUM RATED TO MEET CODES.

KEYED NOTES:

- 1 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EDWARDS 55-405 DOOR BELL AND AN EDWARDS 892 TRANSFORMER AT TWO LOCATIONS SHOWN. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EDWARDS 250 PUSHBUTTON TO CONTROL BOTH DOOR BELLS. PUSHBUTTON SHALL BE INSTALLED IN A WEATHERPROOF ENCLOSURE. TEST TO ASSURE WORKING SYSTEM. MOUNT TRANSFORMER & BELL AT 14'-0" AFF.
- 2 EDWARDS 55-405 DOOR BELL @ CASH REGISTER & CONNECT TO SYSTEM AS NECESSARY. COORDINATE WITH GC FOR EXACT LOCATION OF BELL.

PUBLIC ADDRESS SYSTEM LEGEND

- (S) OPEN BARJOIST MOUNTED SPEAKER
- (S) CEILING BARJOIST MOUNTED SPEAKER
- (J) PUBLIC ADDRESS SYSTEM JUNCTION BOX
- (W) EXTERIOR WEATHERPROOF PUBLIC ADDRESS SYSTEM JUNCTION BOX.

LOW VOLTAGE WIRING SYSTEM LEGEND

- PUBLIC ADDRESS (PA) SYSTEM WIRING
- DATA/TELEPHONE SYSTEM WIRING
- EMS SYSTEM WIRING
- EMS SYSTEM WIRING
- DOOR BELL SYSTEM WIRING

GENERAL NOTES:

- 1 ALL CONDUITS INSTALLED IN THE STOCKROOM AREA SHALL BE INSTALLED AS TIGHT TO ROOF DECK AS ALLOWED BY CODE.

DATA SYSTEM:

GENERAL NOTES:

- A. TSC SHALL FURNISH & INSTALL ALL POS, PA & PHONE SYSTEMS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL BACKBOXES AND CONDUITS. LWV VENDOR RESPONSIBLE FOR WIRING.
- B. LWV VENDOR SHALL PROVIDE ALL DATA AND TELEPHONE WIRING WITH WHITE JACKETS. ALL PHONE AND DATA CABLE MUST BE CAT5 CERTIFIED, NO EXCEPTIONS.
- C. ALL CABLES ROUTED EXPOSED IN CEILING JOIST SHALL BE RUN PERPENDICULAR AND PARALLEL TO THE CEILING JOIST.
- D. LWV VENDOR SHALL BE RESPONSIBLE FOR DETERMINING IF CABLES SHALL BE PLENUM RATED TO MEET CODES.
- E. ROUTE CAT5 CABLES TO IT ROOM TO CEILING SPACE ABOVE THE RED POWER RECEPTACLE (CIRCUIT B-24). REFERENCE DRAWING E2.0 FOR RECEPTACLE LOCATION. REFER TO KEYED NOTE "S" BELOW.

TELEPHONE CABLE: (1) (2)

1. PROVIDE STANDARD OUTLET BOXES AT ALL TELEPHONE LOCATIONS WITH 3/4" CONDUIT (WITH PULL WIRE) TO ACCESSIBLE CEILING AREA OR TO BAR JOIST.

DATA CABLE: (1) (2) (3)

1. PROVIDE STANDARD OUTLET BOXES AT ALL DATA LOCATIONS WITH 3/4" INCH CONDUIT (WITH PULL WIRE) TO ACCESSIBLE CEILING AREA OR TO BAR JOIST.

KEYED NOTES:

- 1 LWV VENDOR SHALL ROUTE TWO CAT5 CABLES FROM REGISTER TO THE IT ROOM. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE AS REQUIRED FOR EACH ADDITIONAL REGISTER. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES 'REG1A' AND 'REG1B' FOR REGISTER ONE AND 'REG2A' AND 'REG2B' FOR REGISTER 2. LABEL ADDITIONAL REGISTER CABLES 'REG3A' AND 'REG3B', ETC. AS REQUIRED FOR ADDITIONAL REGISTERS.
- 2 NOTE NOT USED.
- 3 LWV VENDOR SHALL ROUTE FOUR CAT5 CABLES FROM SERVICE DESK TO THE IT ROOM. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES 'SDA', 'SDC', 'SDD'.
- 4 NOTE NOT USED.
- 5 LWV VENDOR SHALL ROUTE CAT5 CABLES TO IT ROOM TO CEILING SPACE ABOVE THE RED POWER RECEPTACLE (CIRCUIT B-24). REFERENCE DRAWING E2.0 FOR RECEPTACLE LOCATION. REFER TO GENERAL NOTE "E" ABOVE.
- 6 LWV VENDOR SHALL ROUTE THREE CAT5 CABLES FROM RECEIVING DESK TO THE IT ROOM. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES 'R0A', 'R0B', 'R0C'.
- 7 NOTE NOT USED.
- 8 LWV VENDOR SHALL ROUTE THREE CAT5 CABLES FROM IT ROOM ABOVE THE RED POWER RECEPTACLE (CIRCUIT B-24) TO THE TELEPHONE BOARD. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE AS REQUIRED FOR EACH ADDITIONAL REGISTER. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES 'DSL', 'T1A' AND 'T1B'.
- 9 LWV VENDOR SHALL ROUTE THREE CAT5 CABLES FROM THE IT ROOM AT THE DATA WALL OUTLET TO THE TELEPHONE BOARD. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES 'DIAL TONE', 'FAX', AND 'MUSIC ON HOLD'.
- 10 LWV VENDOR SHALL ROUTE TWO CAT5 CABLES FROM THE BREAKROOM TO THE CEILING ABOVE THE POWER OUTLET TO THE IT ROOM ABOVE THE RED POWER RECEPTACLE. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABELS FOR EACH CABLE ON BOTH ENDS. LABEL CABLES 'LRA' AND 'LRB'.
- 11 LWV SHALL ROUTE SIX CAT5 DATA CABLES (TWO PER ACCESS POINT) BACK TO IT ROOM. SEE ACCESS POINT SITE SPECIFIC MAP PROVIDED BY TSC FOR EXACT LOCATION OF EACH ACCESS POINT.
- 12 NOTE NOT USED.
- 13 LWV VENDOR SHALL ROUTE CAT5 CABLE FROM MAIN ENTRANCE TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM1.
- 14 LWV VENDOR SHALL ROUTE CAT5 CABLE FROM REAR OF REGISTER BAYS TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM2.
- 15 LWV VENDOR SHALL ROUTE CAT5 CABLE FROM POD AREA CENTERED ON TOOLS TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM3.
- 16 LWV VENDOR SHALL ROUTE CAT5 CABLE FROM MANAGERS OFFICE TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM4.
- 17 LWV VENDOR SHALL ROUTE CAT5 CABLE FROM IT CLOSET TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM5.
- 18 LWV VENDOR SHALL ROUTE CAT5 CABLE FROM RECEIVING AREA TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM6.
- 19 LWV VENDOR SHALL ROUTE CAT5 CABLE FROM THE 90 DEGREE CORNER OF BOOTHS TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM7.
- 20 LWV VENDOR SHALL ROUTE 16/2 CABLE FOR PUBLIC VIEW MONITOR FROM THE 90 DEGREE CORNER OF BOOTHS TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM8.
- 21 LWV VENDOR SHALL ROUTE CAT5 CABLE FROM AREA BETWEEN SIDE LOT ENTRANCE AND FRONT OF BUILDING TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM9.
- 22 LWV VENDOR SHALL ROUTE CAT5 CABLE FROM SIDE OF VESTIBULE THAT WILL DISPLAY POWER EQUIPMENT TO THE IT CLOSET. VERIFY LOCATION ON SITE. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL CAM10.
- 23 LWV VENDOR SHALL ROUTE CAT5 CABLE FOR EAS FROM ENTRANCE TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL EAS1.
- 24 LWV VENDOR SHALL ROUTE CAT5 CABLE FOR EAS FROM SIDE LOT ENTRANCE TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL EAS2.
- 25 LWV VENDOR SHALL ROUTE CAT5 CABLE FOR EAS FROM LIVE GOODS CENTER ENTRANCE TO THE IT CLOSET. PROVIDE 20 FEET OF CABLE AT BOTH ENDS AT THE CEILING. COIL 15 FEET OF CABLE AT EACH END AND SUSPEND AT 10 FEET AFF. PROVIDE LABEL AT BOTH ENDS. LABEL EAS3.

KEYED NOTES:

- 1 ALL ROOFTOP EQUIPMENT CONNECTIONS SHALL BE MADE THROUGH THE UNIT ROOF CURB. ROOF PENETRATIONS ARE NOT ACCEPTABLE.
- 2 FIRE ALARM CONTROL PANEL TO BE MOUNTED ON TELEPHONE BOARD. REFERENCE DETAIL 1/E4.0. CONNECT TO DEDICATED 120 VOLT POWER CIRCUIT.
- 3 TO HVAC/FAN CONTROLLER FOR SHUTDOWN OF UNIT UPON ACTIVATION OF GENERAL ALARM. CONTROLLER TO BE FURNISHED BY CONTRACTOR. RELAY MODULE TO BE LOCATED WITHIN THREE FEET OF CONTROLLER.

LWV RESPONSIBILITY AND TIMING PLAN

LATEST - Q4 2023

ACTION	BY WHO	WHEN	SPECIAL NOTES
STORER ADDED TO SOB	TSC/REAL ESTATE	1ST MONDAY OF EACH MONTH	
CODES AND BUILDING TYPE CONTACT TSC/PM AS NECESSARY/RESEARCHED, BA AND FA PLANS COMPLETED	JOI/ADT	WITHIN 30 DAYS AFTER ADDED TO THE SOB	PLEASE BE SURE TO VERIFY HVAC SYSTEMS (GROUND MOUNT VS. ROOF MOUNT, ETC.)... SECURITY SYSTEMS CONTRACTOR TO IDENTIFY EXIST. HVAC UNITS BY LL PER THE CHECKLIST
SECURITY SYSTEMS CONTRACTOR COMPLETES PLANS SENDS TO RICH WOOD	JOI/ADT	ON 30TH DAY AFTER ADDED TO SOB	
PLANS FORWARDED TO LL AND/OR HIS ARCHITECT IF KNOWN	TSC/PM	31 DAYS	
TSC TO REVIEW LL PLANS FOR ACCURACY	TSC/PM	WHEN SENT BY LL PRIOR TO CONSTRUCTION START	
LL TO COMPLETE ALL LWV SOB PER PLANS USING TSC VENDOR	MERCURY TECH	NO LESS THAN 2 WEEKS PRIOR TO PD FROM 2 WEEKS	
SECURITY SYSTEMS CONTRACTOR TO INSTALL THEIR EQUIPMENT AND MAKE TERMINATIONS	JOI/ADT	STARTING APPROXIMATELY 3 WEEKS FROM PD TO BE DONE LAST 48 LWV VENDOR COMPLETED LATER THAN 2 WEEKS PRIOR TO PD.	
INSTALLATION OF PA SYSTEM, PHONE SYSTEM, SPEAKERS, OUTSIDE HORNS, PHONES, PATCH PANEL, UPS & W/ARENAS	STAN KOLIC / MERCURY TECH	MONDAY AND TUESDAY BEFORE PD	
INSTALLATION OF POS SYSTEMS AT ALL LOCATIONS AND TESTING OF AP SYSTEM	STAN KOLIC / AGLYSIS	TUESDAY BEFORE PD	

ON DEVELOPER OWNED PROJECTS, DEVELOPER IS RESPONSIBLE FOR 100 % OF COST OF LWV VENDOR AND WIRING.

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Job Number: 2360

Date: 03.22.2024

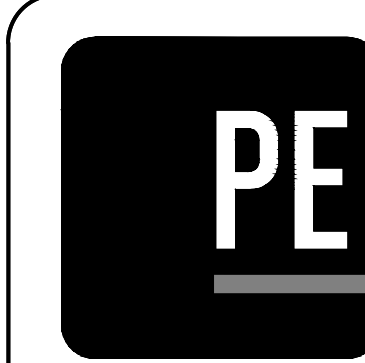
Revisions:

Revisions:

Revisions:

SYSTEMS FLOOR NOTES

Sheet Number: E5.1



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