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70363

OWNER / DEVELOPER  
THE MAINLAND COMPANIES, LLC

1905 ACKLEN AVENUE  
NASHVILLE, TN 37212

OWNERS REPRESENTATIVE  
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thart@mainlandcompanies.com

TENANT  
TRACTOR SUPPLY COMPANY

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BRENTWOOD, TN 37027

PROJECT MANAGER  
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ARCHITECT



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NASHVILLE, TN 37204

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METAIRE, LOUISIANA 70002

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STRUCTURAL ENGINEER

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NASHVILLE, TN 37214

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PROJECT MANAGER  
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MECHANICAL AND PLUMBING

SCHELTON ENGINEERING

1163 WEST MAIN STREET  
FRANKLIN, TN 37064

ENGINEER OF RECORD  
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gary@scheltonengineering.com

ELECTRICAL CONSULTANT

PARSONS ENGINEERING

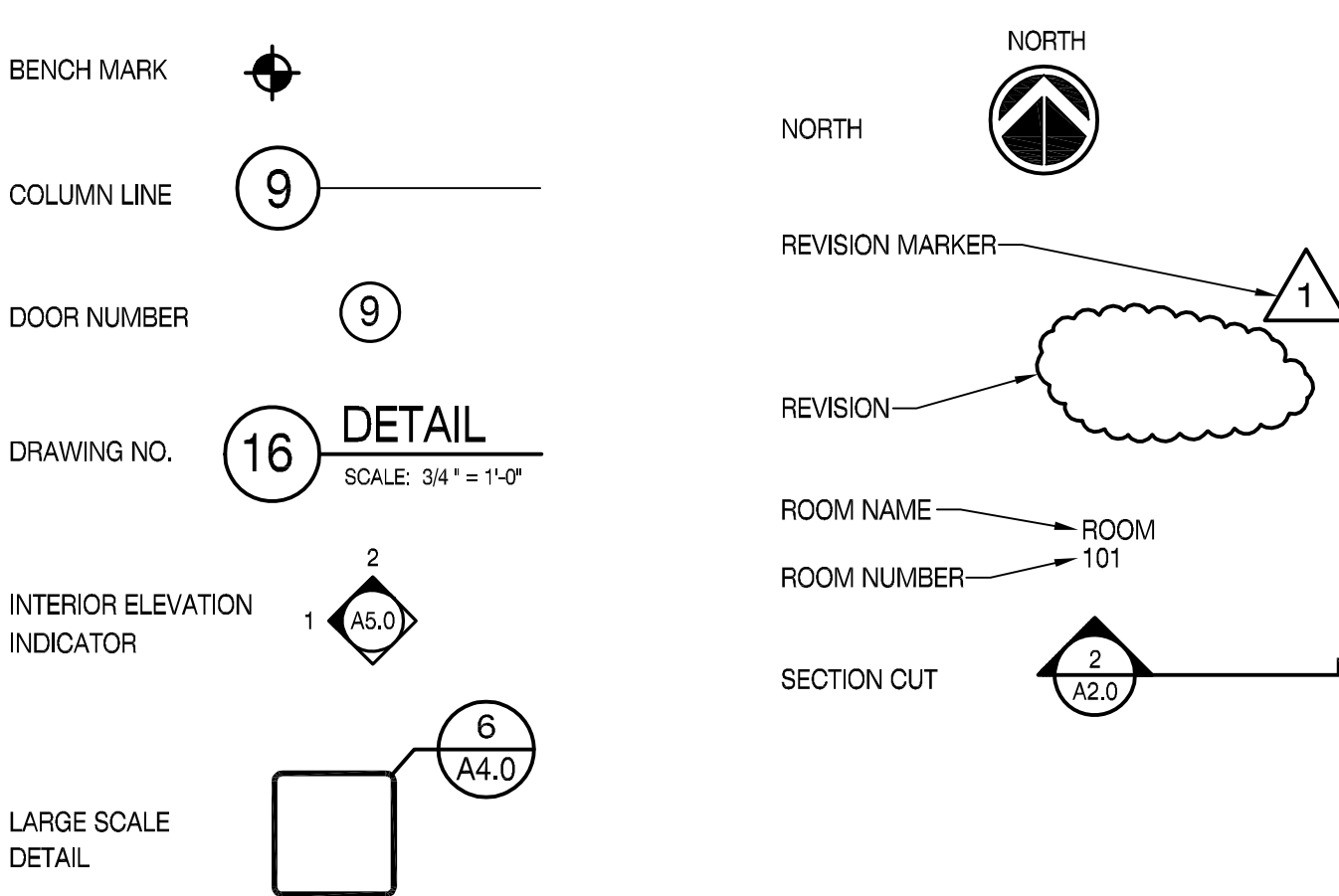
4751 TROUSDALE DRIVE, SUITE 202  
NASHVILLE, TN 37203

ENGINEER OF RECORD  
RODNEY RUNIONS  
615.386.9396  
runions@parsonsenengineering.com

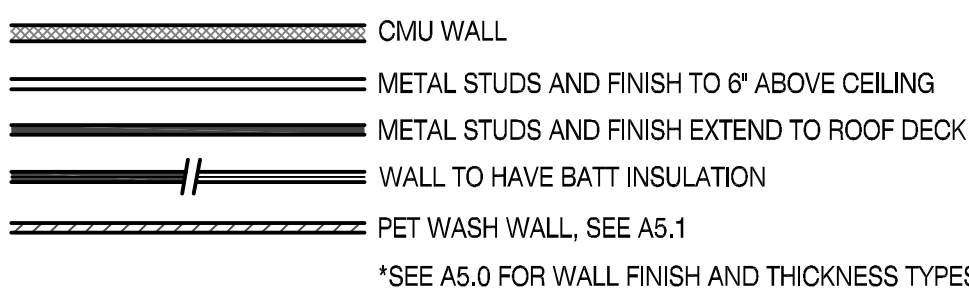
PROJECT SUMMARY

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

GRAPHIC SYMBOLS



WALL TYPES



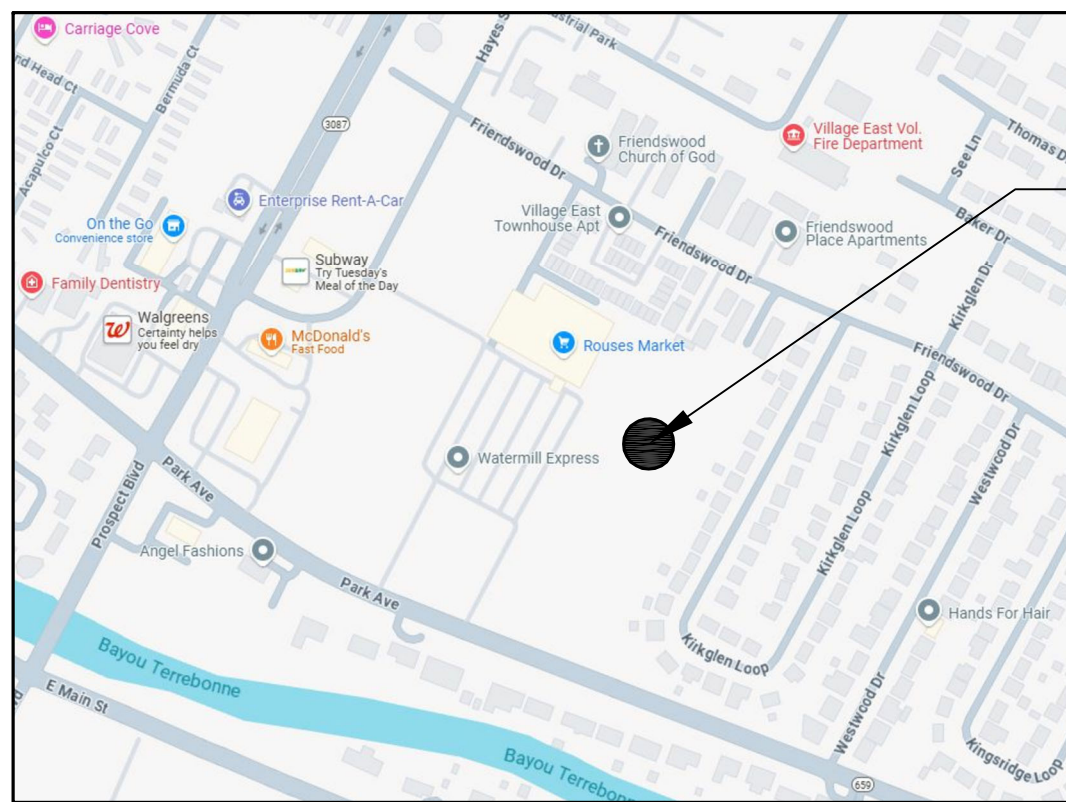
ABBREVIATIONS

ABV:	ABOVE	GALV:	GALVANIZED
ACT:	ACOUSTICAL CEILING TILE	GC:	GENERAL CONTRACTOR
ADA:	AMERICANS WITH DISABILITIES ACT	GD:	GRADE
ADJ:	ADJACENT	GYP:	BO: 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	HWY:	HIGHWAY
BTM:	BOTTOM	MTD:	MOUNTED
CER:	CERAMIC	OC:	ON CENTER
CJ:	CONTROL JOINT	PL:	PROPERTY LINE
CL:	CENTER LINE	PLYWD:	PLYWOOD
CLG:	CEILING	PP:	POWER POLE
CMU:	CONCRETE MASONRY UNIT	PR:	PAIR
C.O.:	CASED OPENINGS	PSI:	POUNDS PER SQUARE INCH
CO:	CLEANOUT	PT:	PAINT
CONC:	CONCRETE	PTD:	PAINTED
COOR:	CORRIDOR	PVMT:	PAVEMENT
CT:	CERAMIC TILE	RAD:	RADIUS
D.F.:	DRINKING FOUNTAIN	RCP:	REFLECTED CEILING PLAN
DIA:	DIAMETER	REQ:	REQUIRED
DIM:	DIMENSION	ROW:	RIGHT OF WAY
DWG:	DRAWING	SAN:	SANITARY
EIFS:	EXTERIOR INSULATION & FINISH SYSTEM	SCHED:	SCHEDULE
INSUL:	INSULATION	SPECS:	SPECIFICATIONS
JAN:	JANITOR	SQ:	SQUARE
MECH:	MECHANICAL	STD:	STANDARD
MFG:	MANUFACTURER	STRUCT:	STRUCTURAL
MH:	MANHOLE	TRANS:	TRANSFORMER
MO:	MASONRY OPENING	VCT:	VINYL COMPOSITION TILE
EJ:	EXPANSION JOINT	VEST:	VESTIBULE
FD:	FIRE DEPARTMENT	WC:	WITH
FFE:	FINISH FLOOR ELEVATION	W/O:	WITHOUT
FH:	FIRE HYDRANT	WD:	WOOD
FIN:	FINISH	WH:	WATER HEATER
FLR:	FLOOR	WWF:	WELDED WIRE FABRIC
FRP:	FIBERGLASS REINFORCED PANEL	YD:	YARD
FT:	FEET		
FTG:	FOOTING		

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VICINITY MAP



PROJECT LOCATION

PROJECT DATA

THIS PROJECT IS BASED ON THE REQUIREMENTS OF THE LOUISIANA UNIFORM CONSTRUCTION CODE WHICH INCLUDE THE FOLLOWING W/ AMENDMENTS:

2021 INTERNATIONAL BUILDING CODE  
2021 INTERNATIONAL ENERGY CONSERVATION CODE  
2021 INTERNATIONAL PLUMBING CODE  
2021 INTERNATIONAL MECHANICAL CODE  
2021 INTERNATIONAL FUEL AND GAS CODE  
2025 NFPA 101 LIFE SAFETY CODE  
2020 NATIONAL ELECTRIC CODE

OCCUPANCY CLASSIFICATION M / S-1 - NON-SEPARATED MIXED USE  
CONSTRUCTION TYPE IIB  
FIRE SUPPRESSION SPRINKLERED

BUILDING AREA LIMITS		OCCUPANCY LOAD
RETAIL SALES	=	15,416 SQ. FT. / 60 = 256.9 OR 257
OFFICE CORE & WALLS	=	1,422 SQ. FT. / 150 = 9.48 OR 10
STOCKROOM	=	4,864 SQ. FT. / 300 = 16.21 OR 17
TOTAL BUILDING AREA	=	21,702 SQ. FT.

TOTAL OCCUPANT LOAD = 284

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

ALLOWABLE AREA CALCULATIONS: Aa = At + [At x If] + [At x Is]  
Aa = 12,500 + [12,500 x 0] + [12,500 x 3]  
Aa = 12,500 + [0] + [37,500]  
Aa = 50,000 SQ. FT.  
Aa = 50,000 SQ. FT. > 21,702 SQ. FT.

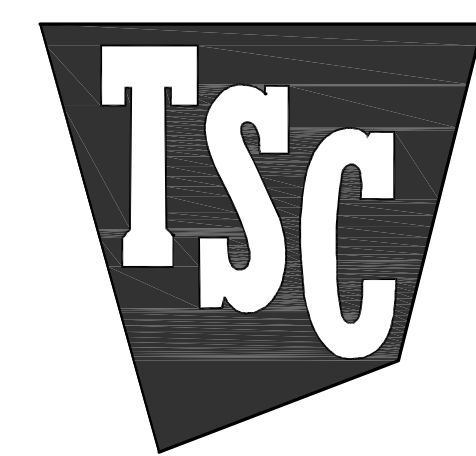




OXFORD  
ARCHITECTURE

2934 Sidco Drive  
Suite 120  
Nashville, TN 37204

Architecture  
Planning  
Interior Architecture



TRACTOR SUPPLY COMPANY

HOUMA  
LOUISIANA

#### SITE STRIPING GUIDELINES:

1. STRIPING ON CONCRETE TO BE YELLOW.
2. STRIPING ON ASPHALT TO BE WHITE.

#### FENCED OUTDOOR DISPLAY AREA FIXTURE INSTALLATION GUIDELINES:

1. CONTRACTOR TO VERIFY WITH THE STORE MANAGER THAT ALL RACKS ARE PROPERLY BUILT AND POSITIONED.
2. 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.
3. RACKS ARE TO BE SECURELY ANCHORED W/ ANCHOR BOLTS IN EVERY AVAILABLE HOLE.
4. FOLLOWING INSTALLATION, REMOVE ANY RESIDUAL DEBRIS AND CLEAN AREA.

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

1. NEW PAVEMENT SURFACE TO CURE FOR A PERIOD OF NOT LESS THAN 14 DAYS BEFORE APPLICATION OF MARKING MATERIALS.
2. 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.
3. 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.
4. PROVIDE A 15 MIL THICK 4" WIDE CONTINUOUS STRIPE WHERE INDICATED. MINIMUM OF (2) TWO COATS.
5. 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:

1. FABRIC: 36" 9 GA. GALVANIZED (2" MESH) CHAIN LINK FABRIC.
2. 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.
3. 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.
4. TERMINAL POST: 3" O.D. FULL WEIGHT PIPE, 5.79 LBS. PER FOOT (MIN). SET IN 8" DIA. BY 36" DEEP CONC. FOOTING.
5. GATE POST: 4" O.D. FULL WEIGHT PIPE, 9.10 LBS. PER FOOT (MIN). 8" DIA. 36" DEEP CONC. FOOTING.
6. (4) GATES: (1) 8 FOOT MANUAL ROLLING CANTILEVERED CHAIN LINK GATE, (1) 20 FOOT MANUAL ROLLING CANTILEVERED CHAIN LINK GATE, (1) 20 FOOT AUTOMATIC 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.
- 6A. SWING GATES: DESIGN AS PER THE MANUFACTURER'S DESIGN STANDARDS. GATES SHALL BE MANUALLY OPERATED.
7. 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.
8. 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.
9. 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.
10. POST FOOTING: TRUCK POURED CONCRETE.
11. SWING GATE LATCH: TO BE CHAIN LINK FENCE-LOC TM BY HOOVER FENCE CO. OR EQUAL.

#### 16' HIGH CHAIN LINK FENCE SPECIFICATIONS:

1. FABRIC: 192" 9 GA. GALVANIZED (2" MESH) CHAIN LINK FABRIC.
2. 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.
3. 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 12" DIA. X 60" DEEP CONC.
4. 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.
5. 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.
6. 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.
7. 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 SOG 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 BUILT. SEE SHEET A-0 FOR IRRIGATION MAP. ANY LANDSCAPE IN EXCESS OF 60 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:

1. VERIFY ALL UTILITY LOCATIONS ON SITE.
2. SEE CIVIL FOR ALL SITE WORK.

#### PROPERTY LINE



#### SITE PLAN

SCALE: 1" = 30'

HOUMA, LOUISIANA

0 10 20 30 60'

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Job Number: 2485

Date: 01.20.2025

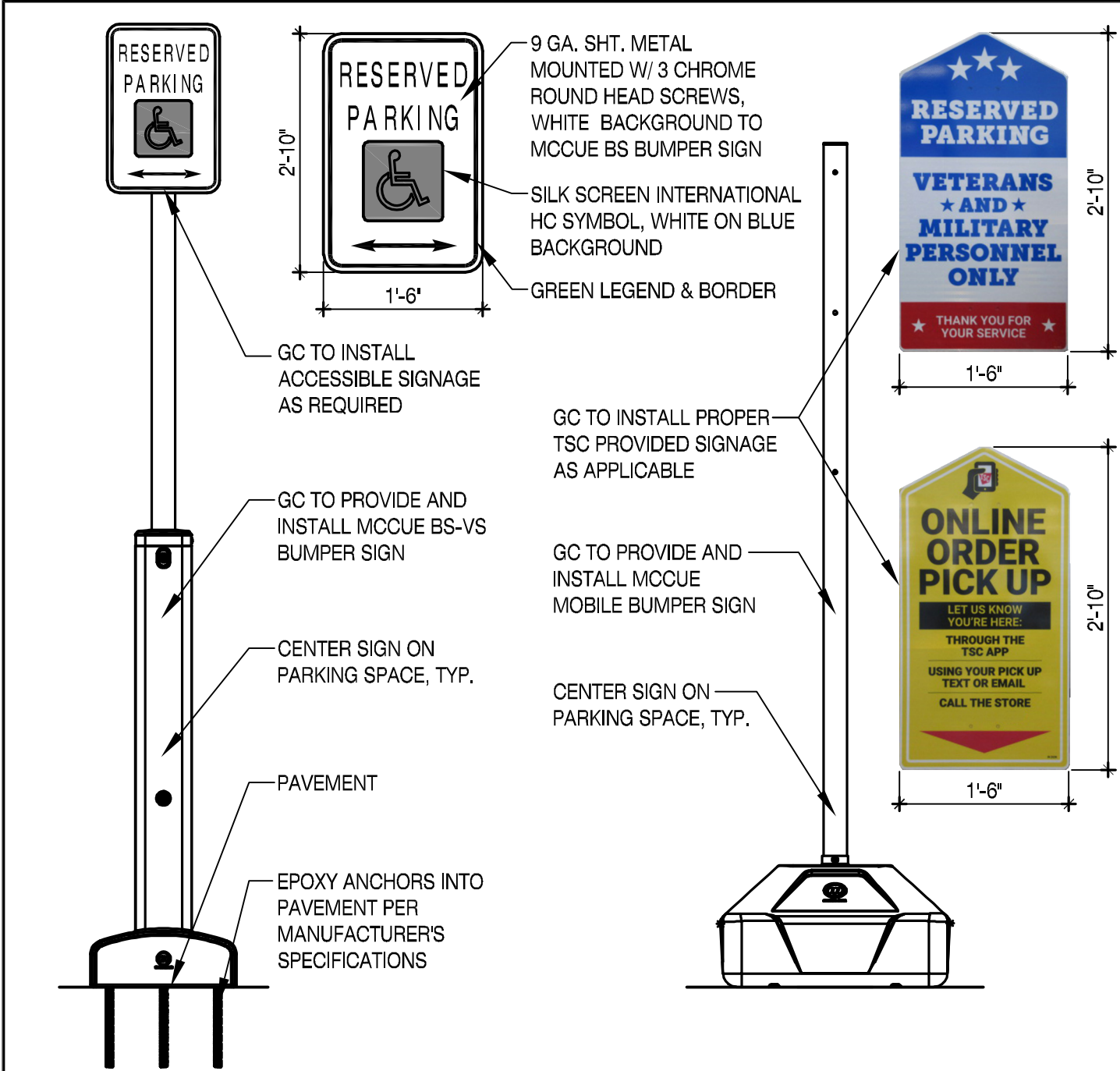
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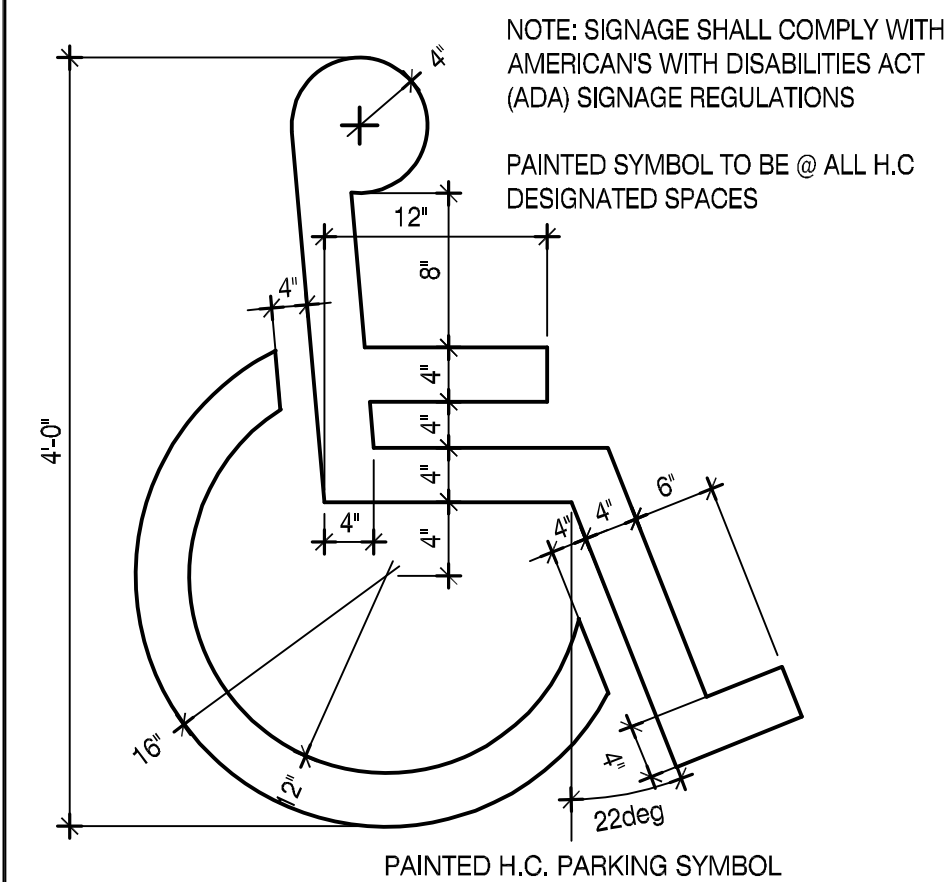
SITE PLAN

Sheet Number: AS1.0



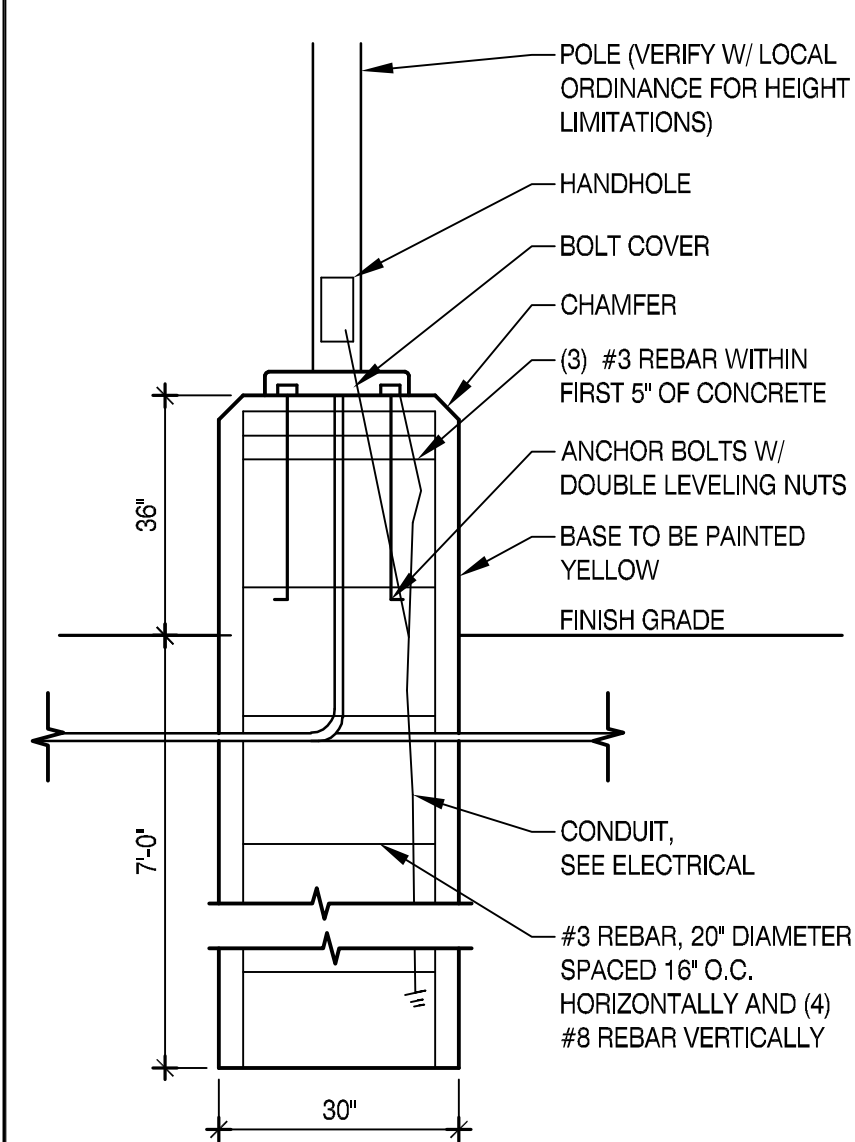
#### 1 DETAIL

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



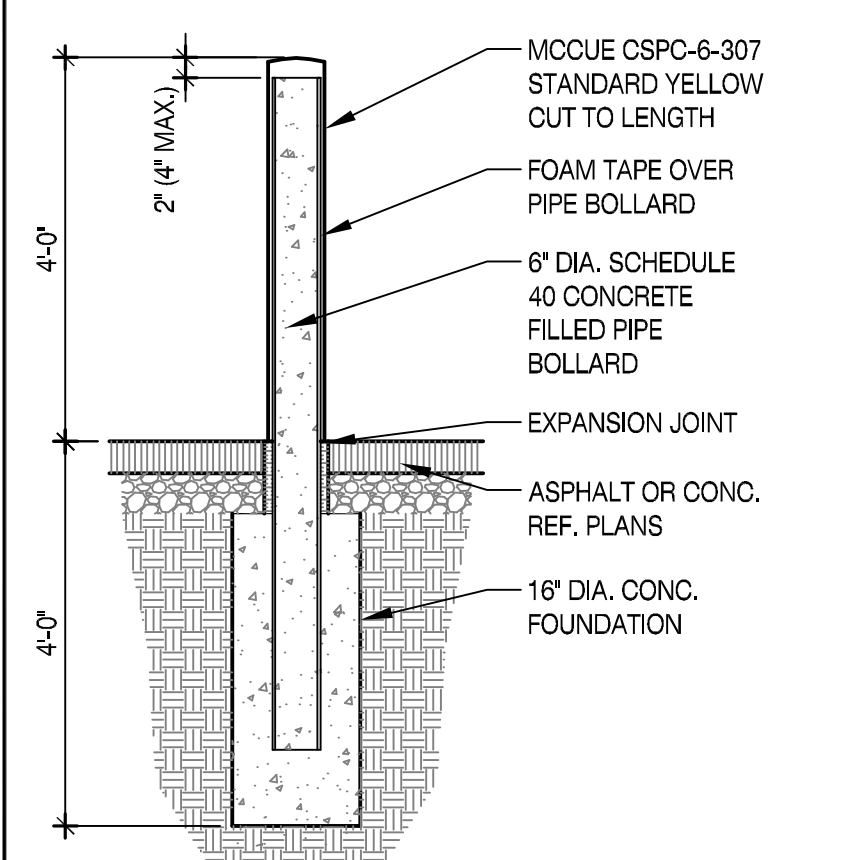
#### 2 DETAIL

SCALE: 1" = 1'-0"



#### 3 DETAIL

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

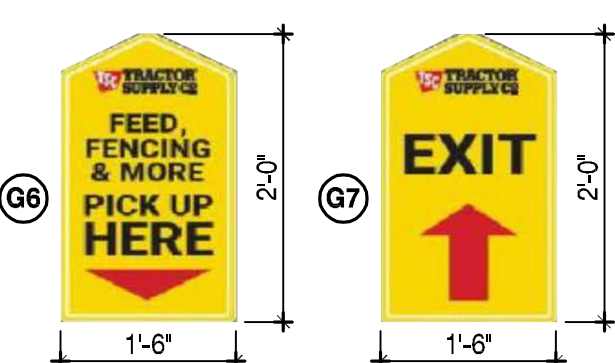


#### 4 DETAIL

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

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

\*CONTRACTOR TO INSTALL SIDE LOT POLE SIGNAGE ON MCCUE MOBILE PARKING SIGNS. CONFIRM EXACT LOCATION WITH FINAL FIXTURE PLAN.



#### 5 DETAIL

NOT TO SCALE

FOD SIGNAGE





OXFORD  
ARCHITECTURE

2934 Sidco Drive  
Suite 120  
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Architecture  
Planning  
Interior Architecture

Job Number: 2485

Date: 01.20.2025

Revisions:

Revisions:

Revisions:

TENANT CRITERIA & VENDOR INFORMATION

Sheet Number: A0.0

## TSC & VENDOR CONTACT INFORMATION

### (CLOSED SPECIFICATIONS)

#### TRACTOR SUPPLY FIXTURE PLANS

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#615.647.2847  
tppayne@tractorsupply.com

PEYTON TONEY, RETAIL STORE PLANNER  
#615.647.2847  
ptoney@tractorsupply.com

#### DOORS, FRAMES, & DOOR HARDWARE

NATIONAL ACCOUNTS CONSTRUCTION TEAM (NAC)  
DH PACE  
#888.722.3667 X 10031  
tsdoors@dhpace.com

LEAD TIME:  
2 WEEKS - HOLLOW METAL FRAMES  
3 WEEKS - PRE-PAINTED & HP DOORS  
6-8 WEEKS - WIND RATED ASSEMBLIES & COASTAL  
\*DH PACE UNCRATING DOOR PACKAGE QR CODE:  
SCAN WITH SMARTPHONE OR TABLET TO WATCH VIDEO

#### SECTIONAL DOORS

NATIONAL ACCOUNTS CONSTRUCTION TEAM (NAC)  
DH PACE  
#888.722.3667 X 10031  
tsdoors@dhpace.com

LEAD TIME:  
6-8 WEEKS - SECTIONAL & COLLING DOORS  
\*USE COLLING DOORS IN HIGH IMPACT REGIONS

#### STOREFRONT DOORS

BILL GERARDIN, NATIONAL ACCOUNT MANAGER  
ALLEGION ACCESS TECHNOLOGIES  
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william.gerardin@allegion.com

SAMANTHA FAULSTICK, NATIONAL ACCOUNTS PM  
ALLEGION ACCESS TECHNOLOGIES  
#843.962.0996  
samantha.faulstick@allegion.com

LEAD TIME: 6 WEEKS

#### LIGHTING PROVIDER

BRYAN BIRDWELL  
VILLA LIGHTING SUPPLY, INC.  
#314.833.0546  
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ADAM CARRIER, NATIONAL ACCOUNTS MANAGER  
VILLA LIGHTING SUPPLY, INC.  
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adam.carrier@villalighting.com

ANNE VOELKER, PRICING CONTACT  
VILLA LIGHTING SUPPLY, INC.  
#314.833.0534  
tractorsupply@villalighting.com

LEAD TIME:  
3-5 DAYS - INTXCT LIGHTING  
3-4 WEEKS - SITE POLE LIGHTING

#### HVAC PROVIDER

STEVEN PETER, NATIONAL ACCOUNTS  
LENNOX  
#404.403.7083  
lennox@lennoxind.com

GARRY BAKER  
LENNOX  
#800.367.6285  
lennoxnationalaccounts@lennoxind.com

LEAD TIME: 20 WEEKS

#### PARKING SIGNS / BOLLARD COVERS

DAVID ARPS, ACCOUNT MANAGER  
YORK / JOHNSON CONTROLS  
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#800.481.9738 TECH SUPPORT  
david.w.arps@jci.com

#### PROPANE CANOPY

SPENCER BRATTON  
VERSATUBE BUILDING SYSTEMS  
#901.614.2192

#### ELECTRIC FORKLIFT

CHUCK TOLLEY  
LIFTONE  
#615.220.5330  
ctolley@liftonet.net

#### METAL RAMP DISTRIBUTOR

TONY HAMILTON  
OSI ENVIRONMENTAL & INDUSTRIAL STEEL FABRICATORS  
#334.793.6878  
thamilton@osisteel.com

LEAD TIME: 3 WEEKS

ANDREW STREUTKER  
DURA-RAMP, INC.  
#604.795.8799  
andrew@duraramp.com

LEAD TIME: 3-5 WEEKS

#### LIVE GOODS CENTER

CRYSTAL GENOVESE  
HENDEE ENTERPRISES  
#713.796.2322  
crystal@hendee.com

#### PAINT

DANIEL CHAISSON, REGIONAL ACCOUNT EXECUTIVE  
THE SHERWIN-WILLIAMS COMPANY  
#901.484.3409  
daniel.chaiisson@sherwin.com

TOM KERR, CORPORATE ACCOUNT MANAGER  
PPG PAINTS  
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#### FIXTURE ANCHORING

BRENDON COLLINS, PROJECT MANAGER  
TAMARACK GROVE  
#208.908.7874  
brendon.collins@tamarackgrove.com

#### (RECOMMENDED ONLY)

##### FIRE SPRINKLER SYSTEMS

KAREN PATRICK, ACCOUNT MANAGER  
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#317.710.5137  
karen.patrick@jci.com

##### WASTE AND RECYCLING VENDOR

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SUSAN FLANAGAN  
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##### UTILITY TRANSFER INFORMATION

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ronaldking@adt.com

DUKE DAUGHTREY, PROJECT MANAGER  
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ddaughtrey@adt.com

##### ELECTRIC PANEL

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CAROLINA PRODUCTS, INC. (CPI)  
#704.384.9229 OFFICE  
#919.621.9038 CELL  
cameronk@cpipanels.com

##### EMS

GAGE PERRY  
PHILIPS TELETRON  
#603.716.0636  
g.perry@brainboxai.com

##### LOW VOLTAGE PROVIDER

TERRY L. CORPENING  
MERCURY TECH PARTNERS, INC.  
#828.465.7348 x 4221  
terry@gomtp.com

DUANE MULLINS  
MERCURY TECH PARTNERS, INC.  
#828.465.7348 x 4344  
duane@gomtp.com

##### RESTROOM DRYERS

ASHLEY MAY  
WORLD DRYERS DISTRIBUTOR  
#800.450.7099  
ashley.may@jncinc.com

##### BALER

CORY GARDNER, NATIONAL ACCOUNTS MANAGER  
JWR, INC.  
888.695.2948  
cory@jwrinc.net

##### PROPANE COORDINATION

MOLLIE TRELOAR  
BUYER - HEATING AND COOLING  
TRACTOR SUPPLY COMPANY  
#615.647.2839  
mrtreloar@tractorsupply.com

MARIAH CRAYTON  
ASSOCIATE BUYER - HEATING AND COOLING  
TRACTOR SUPPLY COMPANY  
#615.647.2839  
mcrayton@tractorsupply.com

##### PARKING SIGNS / BOLLARD COVERS

STEPHEN COATS  
MCCUE  
#404.405.8101  
scoats@mccue.com

##### PROPANE CANOPY

SPENCER BRATTON  
VERSATUBE BUILDING SYSTEMS  
#901.614.2192

##### ELECTRIC FORKLIFT

CHUCK TOLLEY  
LIFTONE  
#615.220.5330  
ctolley@liftonet.net

##### METAL RAMP DISTRIBUTOR

TONY HAMILTON  
OSI ENVIRONMENTAL & INDUSTRIAL STEEL FABRICATORS  
#334.793.6878  
thamilton@osisteel.com

LEAD TIME: 3 WEEKS

##### PAINT

DANIEL CHAISSON, REGIONAL ACCOUNT EXECUTIVE  
THE SHERWIN-WILLIAMS COMPANY  
#901.484.3409  
daniel.chaiisson@sherwin.com

##### LIVE GOODS CENTER

CRYSTAL GENOVESE  
HENDEE ENTERPRISES  
#713.796.2322  
crystal@hendee.com

##### SIGNAGE MANUFACTURER

DEANNA PAYNE  
ID ASSOCIATES  
#334.836.1400 X 122  
dpayne@idassociatesinc.com

BILL HOLLAND  
ID ASSOCIATES  
#334.836.1400  
jholland@idassociates.com

##### VINYL PLANK FLOORING

PAM CORINEAU  
SWIFF-TRAIN COMPANY  
#800.283.7500 X3782  
pcorineau@belknagwhite.com

##### RED STRIPING

RICK TOWNE  
POP SOLUTIONS GROUP  
#901.795.5838 x 19 OFFICE  
#901.483.5929 CELL  
rtowne@popolutionsgroup.com

##### PRINTING

SHERI RYDER  
PLAN EXPRESS  
#865.404.2614  
customerservice@planexpress.net

## GENERAL NOTES:

- 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.
  - THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS OF THE SITE. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT & OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
  - REMOVE ALL CONSTRUCTION AND DEMOLITION DEBRIS FROM JOB SITE DAILY. MAKE JOB PREMISES CLEAN AT COMPLETION OF PROJECT.
  - FIRE EXTINGUISHERS SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL FIRE DEPARTMENT PRIOR TO COMPLETION OF CONSTRUCTION.
  - ALL DIMENSIONS ARE FACE OF DRYWALL AT NEW WALLS AND TO FINISHED FACE AT MASONRY WALLS UNLESS NOTED OTHERWISE.
  - NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS.
  - CONTRACTOR SHALL VERIFY ALL DIMENSIONS. IF DISCREPANCIES ARE FOUND, THE ARCHITECT AND OWNER SHALL BE NOTIFIED IMMEDIATELY.
  - ALL OFFICE WALLS TO BE INSULATED.
  - DRYWALL TO BE HELD UP 1/2" ABOVE CONCRETE FLOOR.
  - THE FOLLOWING ITEMS ARE FURNISHED BY T.S.C. AND INSTALLED BY THE CONTRACTOR.  
QUANTITY ITEM  
1 SET RESTROOM ACCESSORIES (NOT INCLUDING MIRRORS)  
FIRE EXTINGUISHERS  
BRAILLE SIGNAGE  
11. THE FOLLOWING ITEMS ARE FURNISHED AND INSTALLED BY T.S.C.  
QUANTITY ITEM  
1 'OPEN' SIGN  
1 'CUB CADET' SIGN  
1 T.S.C. ROAD SIGN, GENERAL CONTRACTOR TO PROVIDE POWER TO SIGN BASE.  
COORDINATE WITH SIGN COMPANY ASSIGNED TO THIS LOCATION  
1 SECURITY VENDOR WORK (NOT INCLUDING LVW) PAID BY TSC  
12. SPECIFIC MANUFACTURERS AND PRODUCTS ARE NAMED ON THE DRAWINGS TO INDICATE THE MINIMUM ACCEPTABLE LEVEL OF QUALITY. EQUAL OR BETTER PRODUCTS WILL BE CONSIDERED. SUBSTITUTES MUST BE APPROVED BY TSC PM.  
13. ALL OFFICE WALLS TO BE INSULATED.  
14. CONCEAL ALL PIPING IN WALLS. WHERE PIPING IS TOO LARGE WALLS ARE TO BE FURRED OUT A MINIMUM TO CONCEAL PIPING.  
15. PROVIDE WATER RESISTANT GYPSUM BOARD BEHIND ALL PLUMBING FIXTURES.  
16. ALL COUNTERTOPS TO BE 2" IN DEPTH UNLESS OTHERWISE NOTED.  
17. PROVIDE SOOT BLOCKING FOR WALL HUNG CABINETS, PLUMBING FIXTURES, ACCESSORIES AND MILLWORK.  
18. ALL MATERIALS USED BY ALL TRADES SHALL BE LISTED AND LABELED BY AN APPROVED AGENCY AND INSTALLED PER THE MANUFACTURERS INSTRUCTIONS.  
19. TSC RESERVES THE RIGHT TO REVEAL THE BUILDING OR ON BEFORE THE EXPIRATION OF THE LLS ONE YEAR WARRANTY. IF ANY WARRANTY OR PUNCH LIST ITEMS ARE FOUND THE LL SHALL IMMEDIATELY CORRECT THE CONDITION AT ITS EXPENSE.  
20. WHEN SOS TRUCK COMES AS SCHEDULED, GENERAL CONTRACTOR TO ASSIST TSC STORE MANAGER WITH THE UNLOADING AND STORAGE OF ALL SOS TRUCK CONTENTS. IF GENERAL CONTRACTOR REQUESTS SOS TRUCK EARLY, GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL LABOR AND EQUIPMENT REQUIRED TO UNLOAD AND PROPER PLACEMENT AND STORAGE OF CONTENTS ONCE OFF SOS TRUCK.  
21. GENERAL CONTRACTOR TO PROVIDE 2 COPIES OF SITE PLAN AND ELEVATIONS TO SIGN COMPANY ASSIGNED TO THIS PROJECT. VERIFY SIGN COMPANY W/ TSC. 1 COPY OF ELEVATIONS TO POP SOLUTIONS, RICK TOWNE @ 901.795.5938 - ARCHITECT TO E-MAIL CAD BASE OF FLOOR PLAN TO THOMAS PAYNE, TTPAYNE@TRACTORSUPPLY.COM, NO LATER THAN TWO WEEKS OF STARTING CONSTRUCTION.  
22. GENERAL CONTRACTOR SHALL COORDINATE ENTIRE PROJECT AND SCHEDULE THE ALARM COMPANY FOR ALL ROUGH-IN AND FINAL CONNECTIONS AND INSPECTIONS. CONTACT TSC, RICH WOOD @ 615.440.4721 FOR THE ALARM COMPANY ASSIGNED TO THIS LOCATION NO LATER THAN TWO WEEKS AFTER CONSTRUCTION START. REFER TO THE SECURITY VENDOR PRE-CONSTRUCTION AND PRE-INSTALLATION CHECKLIST.  
23. CLOSE-OUT REQUIREMENTS, REFER TO LEASE / CONTRACT. FOR QUESTIONS, CONTACT JULIE BANE @ 615.440.4795.  
24. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY DUCT SMOKE DETECTOR FOR NEW WORK ONLY. COORDINATE WITH THE ASSIGNED ALARM COMPANY.  
25. THE GENERAL CONTRACTOR SHALL PAY FOR ALL UTILITY COST DURING CONSTRUCTION AND CONTACT DEEANA GHOLSON AT ECOVA, INC. #509.329.7516 TWO WEEKS PRIOR TO FIXTURE DATE FOR TRANSFER TO TSC.  
26. DOCK ACCESS FROM ROAD MUST BE ACHIEVED 3 WEEKS PRIOR TO FIXTURE DATE.  
27. THE GENERAL CONTRACTOR OR LANDLORD SHALL SUBMIT A REPORT, ON A WEEKLY BASIS INDICATING THE PERCENT COMPLETE FOR EACH LINE ITEM ON THE SCHEDULE USING THE TSC WEEKLY PROGRESS REPORT ALONG WITH PHOTOS PER PHOTO LOG ON THE BLANK REPORTS PROVIDED BY TSC.  
28. THE GENERAL CONTRACTOR SHALL PROVIDE FOR INDEPENDENT INSPECTION AND CERTIFICATION FOR FOOTING COMPACTION, AND CONCRETE QUALITY AND STRENGTH. THE RESULTS ARE TO BE SUBMITTED TO THE OWNER THE G.C. SHALL LIKEWISE PROVIDE AN INDEPENDENT INSPECTOR TO CERTIFY PROPER INSTALLATION OF THE STRUCTURAL STEEL OR PRE-ENGINEERED METAL BUILDING SYSTEM.  
29. FOR RED STRIPING, CONTACT POP SOLUTIONS AT 901-795-5938, ACCOUNT REP.: RICK TOWNE.  
30. LANDLORD/LANDLORD GENERAL CONTRACTOR TO VERIFY WITH LOCAL POSTMASTER IF A MAILBOX IS REQUIRED. IF SO, GENERAL CONTRACTOR TO INSTALL MAILBOX TYPE AND LOCATION PER THE POSTMASTER RECOMMENDATION AND PER USPS STANDARDS.  
31. U/MOLD TO BE USED AT ALL INTERSECTIONS OF GYPSUM BOARD AND ANY OTHER NON-GYPSUM MATERIAL.  
32. CORNER GUARDS TO BE USED AT ALL INTERIOR OUTSIDE CORNER CONDITIONS.  
33. DURING CONSTRUCTION, ANY PARTIALLY COMPLETED MASONRY WALLS (CMU, BRICK, ETC.) SHALL BE COVERED WITH STRONG WEATHER RESISTIVE MATERIAL DURING ALL TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS AND ESPECIALLY AT THE END OF EACH WORK DAY. THE COVER SHALL BE DRAPPED OVER THE WALL AND EXTEND A MINIMUM OF (2) TWO FEET DOWN FROM BOTH SIDES AND SECURELY HELD IN PLACE.  
34. FOR SOS TRUCK DELIVERIES ON RED STORES, COORDINATE WITH TSC STORE SERVICES SPECIALIST (CAROLINE RICE CRICE@TRACTORSUPPLY.COM) FOR RENTAL TOW-MOTOR DROP. RENTAL TOW-MOTOR SHOULD ARRIVE NO LATER THAN THE WEDNESDAY PRIOR TO FIXTURE DATE. THE RENTAL TOW-MOTOR WILL BE PICKED-UP THE MONDAY FOLLOWING THE STORES SOFT OPENING DATE.  
35. FINISHED SPACE SHALL BE PROVIDED IN A MANNER THAT PREVENTS RODENT INTRUSION. SEAL PENETRATIONS THROUGH EXTERIOR WALL SURFACES WITH AN AEROSOL, MOISTURE-CURING POLYURETHANE FOAM SIMILAR TO "PUF BLACK" BY TODOL PRODUCTS, INC. @ 506.851.3818 OR APPROVED EQUAL.  
36. CONCRETE MASONRY UNITS AND EXTERIOR CONCRETE MOISTURE CONTENT CRITERIA. GENERAL CONTRACTOR, OR THE OWNERS TESTING COMPANY SHALL PROVIDE MOISTURE TESTING OF ALL CMU AND CONCRETE EXTERIOR WALL PER ASTM D4263 PRIOR TO APPLICATION OF PAINT.  
37. TSC PROJECT MANAGER MUST APPROVE THE APPLICATION OF PAINT IN WRITING, IF THE MOISTURE CONTENT IS ABOVE 15%.  
38. GENERAL CONTRACTOR TO HAVE A LOCAL CONTACT WITHIN 2-HOURS FOR ALL (NON)WARRANTY ELECTRICAL AND/OR PLUMBING CALL BACK REPAIRS.  
39. ADD STEEL WOOL AT ALL CONDUIT/PIPE PENETRATIONS AT EXTERIOR WALLS AND ADD ESCUTCHEON PLATE AND PROVIDE SEALANT AT ALL ESCUTCHEON EDGES TO PREVENT RODENT INTRUSION.  
40. AT EXISTING HVAC CURBS, CONTRACTOR TO INSTALL STEEL WOOL AND CLOSED-CELL SPRAY FOAM AT ALL CURB PENETRATIONS TO PREVENT RODENT INTRUSION. CONTRACTOR TO VERIFY ALL WARRANTIES REMAIN INTACT AND APPROVED BY LANDLORD.
- FINAL FIXTURE PLAN TO BE RECEIVED BY CONTRACTOR AND/OR LL APPROXIMATELY 8 WEEKS PRIOR TO FIXTURE DATE TO ESTABLISH PROPER PLACEMENT OF ALL COUNTERS, POWER POLES, AND WOOD GRAIN FLOORING.

## CLOSE-OUT BINDER REQUIREMENTS

PM	STORE # CITY/STATE	SO
X = REQUIRED C = CHECKED N/A = NOT APPLICABLE		
X	1. NAME, ADDRESS AND TELEPHONE NUMBER OF THE CONTRACTOR AND ALL SUBCONTRACTORS.	
X	2. THE FINAL CERTIFICATE OF OCCUPANCY OR THE EQUIVALENT THEREOF DESCRIBED IN ARTICLE 15.5.2(b)	
X	3. AN ASSIGNMENT BY THE CONTRACTOR OF ALL GUARANTEES AND WARRANTIES FROM ALL SUBCONTRACTORS, VENDORS, SUPPLIERS, AND MANUFACTURERS, TOGETHER WITH ORIGINALS OF ALL SUCH GUARANTEES, WARRANTIES, AND OPERATING MANUALS (E.G. HVAC, ROOF, DOORS, WATER HEATER, ETC., AS APPLICABLE).	
X	4. COMPLETE LIST OF EQUIPMENT - COMPLETE TEMPLATE.	
X	5. CONFIRMATION IN WRITING FROM THE INSTALLER OF THE HVAC SYSTEM OR COMPONENTS THEREOF CONFIRMING THAT THE PROPER START-UP PROCEDURES WERE FOLLOWED.	
N/A	6. COMPLETE RETROFIT HVAC BREAKDOWN OF COSTS - COMPLETE TEMPLATE.	
X	7. COMPLETE PROTOTYPE HVAC INFORMATION - COMPLETE TEMPLATE.	
N/A	8. CERTIFICATE OF SEWER CLEAN-OUT BY THE PERSON WHO PERFORMED THE SAME.	
X	9. DISABILITY ACCESSIBILITY INSPECTION REPORTS SENT TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (FOR TEXAS STORES ONLY).	
X	10. A COPY OF THE PUNCH LIST ITEMS SIGNED BY THE OWNER (OR STORE MANAGER, IF SO AUTHORIZED BY OWNER) CONFIRMING ALL PUNCH LIST ITEMS ARE COMPLETED.	
X	11. (1) PDF CONTAINING WORKING DRAWINGS AND PLANS AND SPECIFICATIONS REFLECTING "AS-BUILT" CONDITIONS, WITH A SUMMARY LIST OF CHANGES, INCLUDING IN PDF FORMAT.	
X	12. A COMPLETE SET OF FIRE SPRINKLER SHOP DRAWINGS, IF APPLICABLE.	
N/A	13. A CERTIFICATE EVIDENCING THAT INSURANCE REQUIRED UNDER THE CONTRACT DOCUMENTS SHALL REMAIN IN FORCE AFTER FINAL PAYMENT AND SHALL NOT BE CANCELED, REDUCED, OR ALLOWED TO EXPIRE UNTIL AT LEAST 30 DAYS PRIOR WRITTEN NOTICE HAS BEEN GIVEN TO THE OWNERS.	
X	14. CERTIFICATION OF WATER WELLS AND/OR SEPTIC SYSTEMS THAT DEMONSTRATE INSPECTION AND ACCEPTANCE BY THE MUNICIPALITY. THIS SHOULD INCLUDE ANY CONDOING TESTING AND/OR INSPECTIONS THAT ARE REQUIRED AS WELL AS THE INTERVAL AT WHICH TESTING AND/OR INSPECTION MUST BE COMPLETED.	
N/A	15. DIGITAL PHOTOGRAPHS OF THE BEFORE AND AFTER OF THE FRONT VIEW OF THE STORE.	
X	16. ROOFING INSPECTION REPORT FROM THE ROOFING MANUFACTURER (SHOULD REFLECT ROOF PROPERLY INSTALLED AND AS SUCH WARRANTY 100% IN TACT).	
X	17. CERTIFICATION FROM THE PROJECT CIVIL ENGINEER THAT THE STORM WATER DRAINAGE SYSTEM HAS BEEN CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND ALL APPLICABLE LAWS (SEE LEASE EXHIBIT).	

TSC PM - SIGNATURE

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!

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:
		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 \_\_\_\_\_

## NEW STORE - TIME AND ACTION CALENDAR

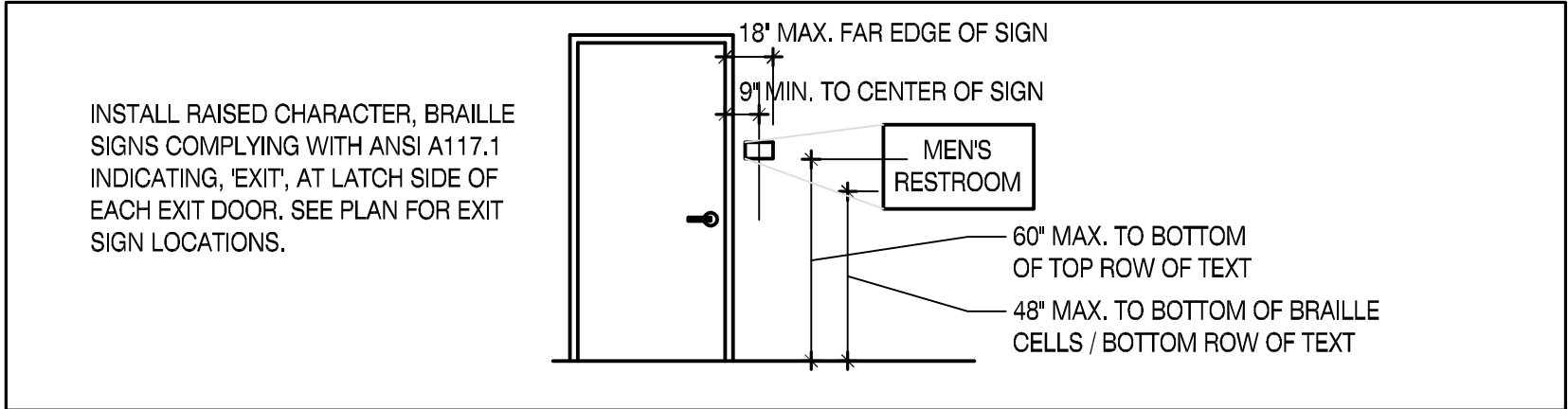
TASK	COMPLETION DATE (WEEKS TO CONSTRUCTION TURNOVER DATE)	CONTACT	RESPONSIBILITY
ARCHITECT TO EMAIL FLOOR PLAN BASE SHEET AND BASE PLAN REVIEW CHECKLIST TO TSC STORE PLANNING AND SECURITY SYSTEMS VENDOR	UPON COMMENCEMENT OF CONSTRUCTION DOCUMENTS	TSC - THOMAS PAYNE - ttpayne@tractorsupply.com TSC - PEYTON TONEY - ptoney@tractorsupply.com JCI - GAIL DRAKE - gail.drake@jci.com OR ADT - DUKE DAUGHTREY - ddaughtrey@adt.com	ARCHITECT
ARCHITECT TO OBTAIN PROPANE LOCATION APPROVAL STAMP AND DATE FROM TSC	PRIOR TO SCHEDULE I SUBMISSION	TSC - CLINT WEAVER - cweaver@tractorsupply.com	ARCHITECT
DEVELOPER TO OBTAIN STATE AND LOCAL PERMITS, INCLUDING SEISMIC ANCHOR PERMITS FOR FIXTURES WHEN REQUIRED	PRIOR TO SCHEDULE II SUBMISSION	TSC - CARL ADLER - caadler@tractorsupply.com TSC - THOMAS PAYNE - ttpayne@tractorsupply.com	DEVELOPER
ARCHITECT TO UPLOAD PLANS TO PLAN EXPRESS	LATEST REVISED DOCUMENTS AT BID AT PERMIT APPROVAL	PLAN EXPRESS - #866.404.2614 customerservice@planexpress.net	ARCHITECT
CONTRACTOR TO CONTACT SECURITY SYSTEMS CONTRACTOR AND SCHEDULE ALARM INSTALLATION	7 WEEKS	JCI - GAVIN ELLIS - gavin.1.ellis@jci.com ADT - DUKE DAUGHTREY - ddaughtrey@adt.com	CONTRACTOR
FINAL FIXTURE PLAN PROVIDED BY TSC	6 WEEKS	TSC - CARL ADLER - caadler@tractorsupply.com TSC - THOMAS PAYNE - ttpayne@tractorsupply.com	TSC FIXTURE PLANNING
BACKBOARD (4X8 HORIZONTAL) PAINTED WHITE	4 WEEKS	TSC - STAN KOLIC - #615.440.4824	CONTRACTOR
SECURITY SYSTEMS CONTRACTOR - HAS TO BEGIN INSTALLATION (PHONE BOARD UP)	3 WEEKS	JCI - GAVIN ELLIS - gavin.1.ellis@jci.com ADT - DUKE DAUGHTREY - ddaughtrey@adt.com	TSC LOSS PREVENTION
CONTRACTOR - CONDUITS FOR IT AND PHONE WITH PULL STRINGS	4 WEEKS	TSC - STAN KOLIC - #615.440.4824	CONTRACTOR
QSI / DURA-RAMP OR LOADING DOCK ACCESS, FORKLIFT, PROPANE GAS AND PROPANE DIS. TANK (PROPANE FOR FORKLIFT AND HEAT IF NECESSARY)	4 WEEKS	AMERIGAS - SCOTT PIERCE (617.709.3339) scott.pierce@amerigas.com CHRIS SAUER (617.768.7515) chris.sauer@amerigas.com MOLLIE TRELOAR (615.440.4230) mltreloar@tractorsupply.com MARIAH CRAYTON (615.647.2639) mcrayton@tractorsupply.com	TSC STORE ADMINISTRATION & CONTRACTOR
CONSTRUCTION TRUCK ARRIVES	3 WEEKS BY TUESDAY	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	
IMPRESSIONS TRUCK ARRIVES	3 WEEKS BY TUESDAY	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	
INSTALL DATE FOR PHONE LINES NEED #55 GROUND AT BOARD	3 WEEKS	TSC - STAN KOLIC - #615.440.4824	IT
IT/ELECT. CLOS. AND MANAGERS OFFICE FINISHED - DUPLEX BOXES AND DEDICATED POWER	3 WEEKS	TSC - STAN KOLIC - #615.440.4824	CONTRACTOR
CONTRACTOR - ALL DOORS TO BE INSTALLED WITH LOCKS	3 WEEKS	DH PACE - NATIONAL ACCOUNTS CONSTRUCTION TEAM (NAC) - #888.722.3667 X 10031 tsdoors@dhpace.com	CONTRACTOR
PERMANENT POWER TO BUILDING	3 WEEKS	SITE SUPERVISOR	CONTRACTOR
METER INFORMATION	15 DAYS PRIOR TO FIXTURE DATE	ECOVA - TractorSupplyOPCL.insight@engle.com	CONTRACTOR
UNIFIRST - MOPS AND MATS	1 WEEK	UNIFIRST - #868.851.2474 X 5 BRAD COOPER (615.440.4965) bcooper@tractorsupply.com	TSC STORE ADMINISTRATION
TERMINIX - (PEST CONTROL)	1 WEEK	TERMINIX - #866.818.4573 BRAD COOPER (615.440.4965) bcooper@tractorsupply.com	TSC STORE ADMINISTRATION
ROCK-TENN WASTE MANAGEMENT (40 YARD DUMPSTER)	1 WEEK	ROCK-TENN WASTE MANAGEMENT - #800.333.8879 BRAD COOPER (615.440.4965) bcooper@tractorsupply.com	TSC STORE ADMINISTRATION
SERVICE DESK, RECEIVING DESK, REGISTER COUNTERS WITH POWER POLES SET IN PLACE	1 WEEK	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	CONTRACTOR
CABELING INSTALLED TO REGISTER COUNTERS, SERVICE DESK AND RECEIVING DESK. CONNECT TO PERMANENT POWER	1 WEEK	TSC - STAN KOLIC - #615.440.4824	IT
PLAY NETWORK INSTALLED BY TSC	1 WEEK	PLAY NETWORK - #800.342.0105 BRAD COOPER (615.440.4965) bcooper@tractorsupply.com	TSC STORE ADMINISTRATION
PROPANE PROVIDER TO FILL PROPANE DISTRIBUTION TANK	1 WEEK	MOLLIE TRELOAR (615.440.4230) mltreloar@tractorsupply.com MARIAH CRAYTON (615.647.2639) mcrayton@tractorsupply.com	TSC STORE ADMINISTRATION
CONTRACTOR TO COORDINATE INSTALLATION OF FIXTURES PRIOR TO THIS WEEK, INCLUDING SEISMIC ANCHORING FOR FIXTURES WHEN REQUIRED	FIXTURE WEEK		CONTRACTOR
TRANSITION WEEK - ALL CONSTRUCTION ACTIVITIES ARE TO BE COMPLETED PRIOR TO THIS WEEK.	FIXTURE WEEK		CONTRACTOR
SOS (FULL TRUCK)	5 DAYS (WEDNESDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION
LIS - BACKROOM AND SIDELOT FIXTURES (1/2 TRUCK)	4 DAYS (THURSDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION
NATIONAL CART - CART CORRAL (1/2 TRUCK)	4 DAYS (THURSDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION
MEG - FIXTURES (3/4 OF A TRUCK)	3 DAYS (FRIDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION
LOZIER - FIXTURES - FULL TRUCK	3 DAYS (FRIDAY)	CAROLINE RICE (615.440.4705) crice@tractorsupply.com	TSC STORE ADMINISTRATION
ROCK-TENN WASTE MANAGEMENT - RETURN 40 YARD DUMPSTER AND GET REGULAR SERVICE	SOFT OPENING	ROCK-TENN WASTE MANAGEMENT (800.333.8879) BRAD COOPER (615.440.4965) bcooper@tractorsupply.com	TSC STORE ADMINISTRATION
TELECHECK MACHINES	2 WEEKS TO SOFT OPENING	TELECHECK - MAX PUENTE - #713.331.7018 max.puente@tristatetea.com	TSC STORE ADMINISTRATION

## LVW RESPONSIBILITY AND TIMING PLAN

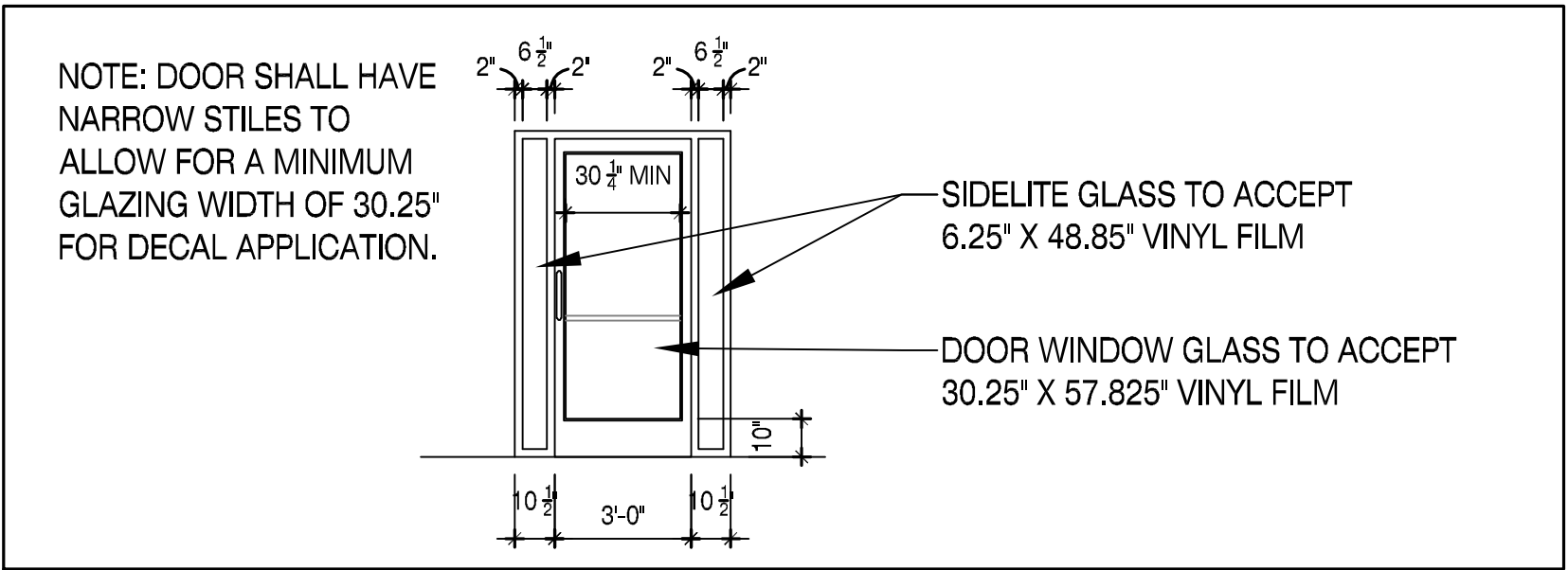
PROTOTYPES		BY WHO	WHEN	SPECIAL NOTES
ACTION				
TSC REAL ESTATE		TSC REAL ESTATE	TEST MONDAY OF EACH MONTH	
COSES AND BUILDING TYPE (CONTACT TSC PM AS NECESSARY) RESEARCHED, BA AND FA PLANS COMPLETED	JCI/ADT		WITHIN 30 DAYS AFTER ADDED TO THE SOS	PLEASE BE SURE TO VERIFY HVAC SYSTEMS (GROUND MOUNT VS. 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 AND TSC PM	JCI/ADT		ON 30TH DAY AFTER ADDED TO SOS	
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 LJV ROW PER PLANS USING TSC EQUIPMENT	MERCURY TECH		NO LESS THAN 2 WEEKS PRIOR TO FD FROM 2 WEEKS	
SECURITY SYSTEMS CONTRACTOR TO INSTALL, THEIR EQUIPMENT AND MAKE TERMINATIONS	JCI/ADT		STARTING APPROXIMATELY 1 WEEK FROM FD TO BE DONE LAST AS LJV VENDOR COMPLETES NO LATER THAN 2 WEEKS PRIOR TO FD	
INSTALLATION OF FA SYSTEM, PHONE SYSTEM, SPEAKERS, OUTSIDE PHONES, PHONES, PATCH PANEL, APS W ANTENNAS	STAN KOLC / MERCURY TECH		MONDAY AND TUESDAY BEFORE FD	
INSTALLATION OF POS SYSTEMS AT ALL LOCATIONS AND TESTING OF AP SYSTEM	STAN KOLC / AGL/ISS		TUESDAY BEFORE FD	
ON DEVELOPER OWNED PROJECTS, DEVELOPER IS RESPONSIBLE FOR 100 % OF COST OF LJV VENDOR AND WIRING.				



ADA SIGNAGE



PET WASH STOREFRONT



DRAIN MANAGEMENT PROGRAM

PROJ	RETO	NOTE:
X	X	1. ALL DRAINS, VENTS, ETC. MUST BE TAPED OVER DURING CONSTRUCTION TO PREVENT DEBRIS FROM INFILTRATING THE LINES
X	X	2. GC/DEVELOPER IS REQUIRED TO SUBMIT PHOTOS OF TAPED DRAINS
X	X	3. GC WILL BE FINED \$150 PER DAY IF PHOTOS ARE NOT SUBMITTED BY THE BEGINNING OF WEEK TWO OF THE PROJECT OR IF ANY DRAIN IS DISCOVERED UNCOVERED DURING A PM SITE VISIT. FINES WILL TERMINATE ON THE DAY THAT PHOTOGRAPHIC EVIDENCE OF COMPLETION IS SUBMITTED TO AND VERIFIED BY THE TRACTOR SUPPLY PM.
X	X	4. GC/DEVELOPER WILL BE REQUIRED TO JET AND CAMERA ANY LINE IN WHICH THE DRAIN IS DISCOVERED UNCOVERED. RECEIPTS AND VIDEO MUST BE SUBMITTED TO TRACTOR SUPPLY FOR VERIFICATION.
X	X	5. DRAIN MANAGEMENT SIGNAGE WILL BE PROVIDED BY TRACTOR SUPPLY AND INSTALLED BY THE GC/DEVELOPER.
X	X	6. IF SIGNAGE IS NOT INSTALLED @ PUNCH, CLEANING/CAMERA POLICY WILL APPLY.
X	X	7. GC WILL BE FINED \$150 PER DAY IF SIGNAGE IS NOT INSTALLED AT PUNCH. FINES WILL TERMINATE ON THE DAY THAT PHOTOGRAPHIC EVIDENCE OF COMPLETION IS SUBMITTED TO AND VERIFIED BY THE TRACTOR SUPPLY PM.

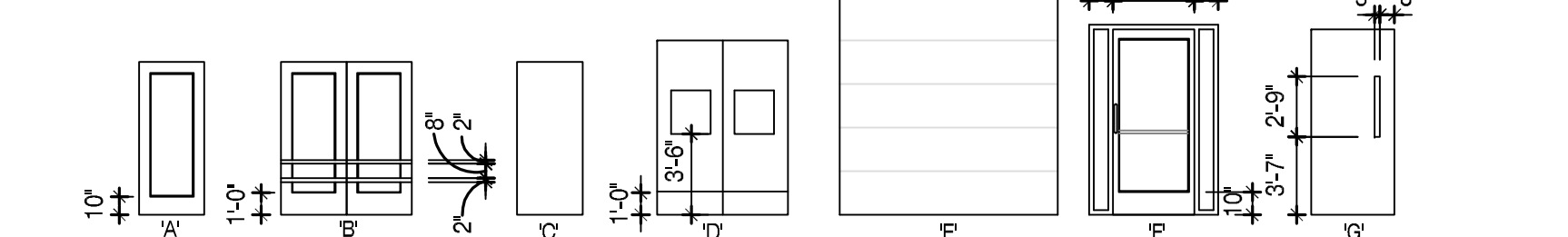
COLOR SCHEDULE

<b>EXTERIOR BUILDING FINISHES:</b> CORRUGATED SIDING - 22 GAUGE GALVANIZED CORRUGATED STEEL PANEL - MATTE / WEATHERED FINISH ROOF AT VESTIBULE GABLE - GALVANIZED STANDING SEAM METAL ROOFING CONCRETE MASONRY UNITS AND EXTERIOR CONCRETE MOISTURE CONTENT CRITERIA, GENERAL CONTRACTOR, OR, THE OWNERS TESTING COMPANY SHALL PROVIDE MOISTURE TESTING OF ALL CMU AND CONCRETE EXTERIOR WALL PER ASTM D4263 PRIOR TO APPLICATION OF PAINT. TSC PROJECT MANAGER MUST APPROVE THE APPLICATION OF PAINT IN WRITING, IF THE MOISTURE CONTENT IS ABOVE 15%. CONCRETE MASONRY UNITS FOR CONVENTIONAL BUILDINGS. ELASTOMERIC SYSTEM FLAT FINISH - COLOR TO MATCH SW7513 SANDERLING TO 4'-0" A.F.F., SW7532 URBAN PUTTY FROM 4'-0" A.F.F. TO TOP OF C.M.U. ON ALL SIDES. 1ST COAT: S-W LOXON ACRYLIC BLOCK SURFACER, LX01W0200 (50-100 SQ FT) GAL @ 16 MILS WET; (8 MILS DRY) 2ND COAT: S-W CONFLX XL SMOOTH HIGH BUILD ACRYLIC COATING, CF11 SERIES 3RD COAT: S-W CONFLX XL SMOOTH HIGH BUILD ACRYLIC COATING, CF11 SERIES (16 MILS WET; 7.5 MILS DRY) PER DRY COAT (ACCEPTABLE TOLERANCE IS 9-10 PINHOLE PER SQ. FT.)  RED ACCENT STRIPE (CONCRETE MASONRY UNITS) HIGH GLOSS FINISH - COLOR TO MATCH SW4081 SAFETY RED FROM 10'-0" A.F.F. TO 10'-8" A.F.F., FRONT, LEFT, AND RIGHT SIDES 2 COATS: S-W ACROLOON 100, B65R720 PART A SAFETY RED B65V720 PART B HARDENER - APPLY AS NEEDED FOR COMPLETE COVERAGE APPLY TO EXTERIOR RED STRIPE ONLY - CLEAR COAT GLOSS FINISH - DIAMOND-CLAD VIB 3 COMPONENT; LOW VOC WATERBASED ACRYLIC POLYURETHANE CLEAR COAT DIAMOND-CLAD CLEAR COAT URETHANE GLOSS CLEAR PART A (B65V175) DIAMOND-CLAD CLEAR COAT URETHANE HARDNER PART B (B65V175) DIAMOND-CLAD CLEAR COAT URETHANE CATALYST PART C (B65V175) MIX COMPONENTS PER MANUFACTURERS SPECIFICATIONS COAT ACROLOON WITHIN 48 HOURS RECOMMENDED SPREAD RATE (WET MILS: 2.4-4.8 AND DRY MILS: 1.0-2.0)  RED STRIPE (AROUND VESTIBULE BUMP OUT) - BY POP SOLUTIONS TO MATCH RED STRIPE SW 4081 SAFETY RED LIGHTING POLE BASES GLOSS FINISH - COLOR TO BE SW4084 SAFETY YELLOW 1ST COAT: S-W LOXON ACRYLIC BLOCK SURFACER, LX01W0200 (50-100 SQ FT) GAL @ 16 MILS WET; (8 MILS DRY) 2ND COAT: S-W CONFLX XL SMOOTH HIGH BUILD ACRYLIC COATING, CF11 SERIES 3RD COAT: S-W CONFLX XL SMOOTH HIGH BUILD ACRYLIC COATING, CF11 SERIES (APPLY AS NEEDED FOR COMPLETE COVERAGE) PRODUCT IS PACKAGE SAFETY YELLOW; COLOR ACCEPTANCE SHOULD BE APPROVED BY TSC.  LOADING DOCK GUARDRAILS, HOLLOW METAL DOOR FRAMES, STEEL ROOF LADDER GLOSS FINISH - COLOR TO MATCH SW1012 POWER GREY 1ST COAT: S-W KEM KROMIK UNIVERSAL METAL PRIMER, B50Z SERIES - OMT FOR H.M. DOOR FRAMES (6.0 - 8.0 MILS WET / 3.0 - 4.0 MILS DRY PER COAT) 2ND COAT: S-W INDUSTRIAL ENAMEL HS, B54Z400 SERIES 3RD COAT: S-W INDUSTRIAL ENAMEL HS, B54Z400 SERIES (2.0 - 4.0 MILS DRY PER COAT) (APPLY AS NEEDED FOR COMPLETE COVERAGE)  EXTERIOR METAL DOORS FACTORY FINISHED SHER-CRYL HPA SW1012 POWER GREY TOUCH-UP PAINT PROVIDED BY DH PACE	
PIPE BOLLARDS AND COVERS	6" SCHEDULE 40 CONCRETE FILLED PIPE BOLLARD WITH MCCUE POST COVER CSPC-6-307 (SEE MANUFACTURER FOR BOLLARD SIZES OTHER THAN 6" DIA.) COLOR TO BE STANDARD YELLOW
EXTERIOR STOREFRONT	YKK AP SERIES YHS 50 IMPACT RESISTANT CLEAR ANOZIZED ALUMINUM STOREFRONT SYSTEM WITH INTEGRATED STRUCTURAL STEEL FRAMING AS REQUIRED FOR WIND LOADS EXTERIOR: 1" TEMP. INSULATED GREY TINTED GLASS IMPACT RESISTANT INTERIOR: 1/4" TEMP. CLEAR GLASS - TEMPERED
STOREFRONT GLAZING	
<b>INTERIOR FINISHES:</b> MASONRY (CONCRETE, SCORED, SMOOTH, HIGH-LOW DENSITY) SEMI-GLOSS FINISH - COLOR TO MATCH SW7005 PURE WHITE 1ST COAT: S-W PREPRITE BLOCK FILLER B28V25 (75-125 SQ. FT. GAL @ 16 MILS WET; 8 MILS DRY) 2ND COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES 3RD COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES (4 MILS WET, 1.3 MILS DRY PER COAT)  RED ACCENT STRIPE (IN RETAIL SALES AREA - 10'-0" TO BOTTOM OF STRIPE, 12" STRIPE) SEMI-GLOSS FINISH - SW 4081 SAFETY RED 1ST COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER, B28W02600 (4 MILS WET, 1.2 MILS DRY) 2ND COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31R02658 3RD COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31R02658  INTERIOR COLUMNS (METAL) GLOSS FINISH - COLOR TO MATCH SW1012 POWER GREY 1ST COAT: S-W KEM KROMIK UNIVERSAL METAL PRIMER, B50Z SERIES (6.0 - 8.0 MILS WET / 3.0 - 4.0 MILS DRY PER COAT) 2ND COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES 3RD COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES (4 MILS WET, 1.3 MILS DRY PER COAT)  EXPOSED DECK & JOISTS PRE-PRIMED GREY PREFERRED OR AS APPROVED BY TRACTOR SUPPLY COMPANY  EXPOSED CONDUIT IN RETAIL SALES PAINT CONDUIT TO MATCH WALL FINISH  EXPOSED CONDUIT IN CLOTHING AREA PAINT CONDUIT TO MATCH WALL FINISH  EXPOSED CONDUIT IN CLOTHING AREA PAINT CONDUIT TO MATCH WALL FINISH  HAMMERED ALL SURFACE PAINT - PRIMER BROWN OUTER CORE AREAS - DRYWALL (WALLS, GYPSUM BOARD, PLASTER BOARD, ETC.) SEMI-GLOSS FINISH - COLOR TO MATCH SW7005 PURE WHITE 1ST COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER, B28W02600 (4 MILS WET, 1.3 MILS DRY PER COAT) 2ND COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES 3RD COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES (4 MILS WET, 1.3 MILS DRY PER COAT)  INNER CORE AREAS SEMI-GLOSS FINISH - COLOR TO MATCH SW7036 ACCESSIBLE BEIGE 1ST COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER, B28W02600 (4 MILS WET, 1.3 MILS DRY PER COAT) 2ND COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES 3RD COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES (4 MILS WET, 1.3 MILS DRY PER COAT)  METAL DOOR FRAMES GLOSS FINISH - COLOR TO MATCH SW1012 POWER GREY 1ST COAT: FACTORY PRIMED 2ND COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES 3RD COAT: S-W PROMAR 400 ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31W04651 SERIES (4 MILS WET, 1.3 MILS DRY PER COAT)  METAL DOOR FRAMES - OPTION (HARDER FINISH AND BETTER COLOR/GLOSS RETENTION) GLOSS FINISH - COLOR TO MATCH SW1012 POWER GREY 1ST COAT: FACTORY PRIMED 2ND COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL B53W101 SERIES 3RD COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL B53W101 SERIES (4 MILS WET, 1.5 MILS DRY PER COAT)  INTERIOR WOOD DOORS FACTORY FINISHED SHER-CRYL HPA SW1012 POWER GREY TOUCH-UP PAINT PROVIDED BY DH PACE  VINYL PLANK FLOORING SWIFF-TRAIN COMPANY EARTHWERKS WOOD CLASSIC IN SENORA GWC 9812 ON NORTH STAR FLOORING SOMA IN RUSSET. SEE TERRITORY MAP A0.0 FOR VENDOR SELECTION  VINYL BASE JOHNSONITE VINYL #40 BLACK IN ALL SPACES W/ PREFORMED INSIDE AND OUTSIDE CORNERS  PLASTIC LAMINATE WILSONART 4857-60 SHADOW ZEPHYR AT EMPLOYEE LOUNGE COUNTERTOP PROVIDED BY TSC  TOILET PARTITIONS GLOBAL INDUSTRIES PLASTIC LAMINATE FLOOR MOUNTED TOILET PARTITIONS TO BE FINISHED WITH WILSONART LAMINATE 4857-60 SHADOW ZEPHYR OR EQUAL AS REQUIRED BY LOCAL CODE  FIBERGLASS REINFORCED PANEL (FRP) WAINSCOT TO 4" A.F. ON NON-MASONRY WALLS IN RESTROOMS AND WALLS ADJACENT TO THE WATER FOUNTAIN. SEE DETAILS A5.0 FOR MOP SINK CONDITION & DETAILS A5.1 FOR PET WASH WALL CONDITION. FRP BY GLASTEEL, GLASLINER FRP, COLOR: XA WHITE, FINISH: TEXTURED.  LAY-IN CEILING & GRID (VESTIBULE) GRID STONE GYPSUM CEILING PANELS 12" X 2' X 4'  LAY-IN CEILING & GRID (OFFICE CORE) ARMSTRONG DUNE 1776 2X4, WHITE, SQUARE LAYIN, OR EQUAL  FLOOR IN VESTIBULE, SALES, RESTROOMS, CORRIDOR, MANAGERS OFFICE, EMPLOYEE LOUNGE CONCRETE FLOORING SPECIFICATIONS, PROVIDE THE FOLLOWING: • ANY FLOOR AREAS OVER 3" ROUND WILL BE PREPPED BY THE 'GC'. • MECHANICALLY GROUND AND POLISHED FLOOR SURFACE TO A 400 GRIT RESIN DIAMOND FOLLOWED BY 800 GRIT DIAMOND PAD BURNISH FOR A MID LEVEL GLOSS. INCLUDED IN THIS PROCESS IS CONCRETE DENSIFICATION, JOINT/CRACK FILLING UP TO 1/160 LF AND PATCHING OF HOLES SMALLER THAN 3" THAT POSE A TRIP HAZARD. PROCESS TO BE INSTALLED BY FLOORING SUBCONTRACTOR.  FLOOR IN STOCKROOM, IT ROOM CONCRETE FLOORING SPECIFICATIONS, PROVIDE THE FOLLOWING: • 1 OUT GRIND THEN SEALED WITH GUARD SEALER INSTALLED BY FLOORING SUBCONTRACTOR.  FLOOR IN PET WASH CONCRETE AND EPOXY FLOORING SPECIFICATIONS, PROVIDE THE FOLLOWING: • DO NOT BROOM FINISH THIS AREA, PLACE AND FINISH CONCRETE AS SPECIFIED IN SECTION 3.04 "CONCRETE FINISHES AND TOLERANCES", PARAGRAPH A "GENERAL FINISHES". CURE USING 'KUREZ DR VOX' OR 'KUREZ DR 100' AT AN APPLICATION RATE OF 400 SF/GALLON • JOINT FILLING: FILL ALL CONTROL JOINTS AS SPECIFIED IN SECTION 3.07 "INTERIOR CONCRETE JOINT FILLER", PARAGRAPH B, SURFACE PREPARATION: EPOXY FLOOR COATING SYSTEM IS DESIGNED FOR APPLICATION ON CONCRETE SUBSTRATES. NEWLY PLACED CONCRETE SURFACES SHOULD BE CURED FOR A MINIMUM OF 28 DAYS PRIOR TO COATING. CONCRETE SURFACES MUST BE STRUCTURALLY SOUND, FREE OF LOOSE OR DETEIORATED CONCRETE AND FREE OF DUST, DIRT, PAINT, EFFLORESCENCE, OIL AND OTHER CONTAMINANTS. MECHANICALLY ABRASE THE SURFACE TO ACHIEVE A SURFACE PROFILE EQUAL TO CSP 2-3 IN ACCORDANCE WITH ICRI GUIDELINE 310.2. PROPERLY CLEAN PROFILED AREA. THE pH OF THE SURFACE SHOULD BE CHECKED ACCORDING TO ASTM D 4262. FOLLOWING SURFACE PREPARATION, THE CLEANED SURFACE SHOULD HAVE A MINIMUM SURFACE-TENSILE STRENGTH OF 200 PSI WHEN TESTED WITH AN ELOMETER OR SIMILAR PULL TESTER (ASTM D 4541). • INITIAL COAT MIXING: PRE-MIX "INCRETE HIGH PERFORMANCE EPOXY" (GRAY) PART A AND PART B, THEN COMBINE 2 PARTS BY VOLUME OR PART A WITH ONE PART BY VOLUME OF PART B, AND THEN MIX THOROUGHLY USING A LOW-SPEED DRILL MOTOR AND A JIFFY-TYPE MIXER. MIX ONLY THE AMOUNT OF MATERIAL THAT CAN BE APPLIED DURING THE POT LIFE. DO NOT AERATE THE MIX. • INITIAL COAT APPLICATION: APPLY "INCRETE HIGH PERFORMANCE EPOXY" (GRAY) AT 120 SF/GALLON. SPREAD THE MIXED EPOXY WITH A NOTCHED SQUEEGEE WHILE WEARING SPIKED SHOES. START FROM ONE END OF THE FLOOR AND WORK BACKWARDS AND SIDEWAYS TRYING TO KEEP A WET-TO-WET EDGE. THE COATING SHOULD THEN BE ROLLED IN ONE DIRECTION USING A 3/8" NAP, SHED-RESISTANT ROLLER, MAKE SURE THE MATERIAL IS APPLIED AS QUICKLY AS POSSIBLE WITHOUT LEAVING PUDDLES. • PIGMENTED CHIP APPLICATION: BROADCAST UNTIL REFUSAL, "INCRETE GRANITE COAT CHIPS" (MICA) IN A HIGH ARCING MOTION INTO THE WET EPOXY. ALLOW TO CURE. ONCE DRY, VACUUM/SCRAPE OFF EXCESS FLAKES. ALLOW TO DRY. • GROUT COAT: APPLY "INCRETE HIGH PERFORMANCE EPOXY" (CLEAN) AT 120 SF/GALLON. ALLOW TO DRY. • WEAR COAT: APPLY A FINAL COAT OF "INCRETE POLYSEAL POLYSPARTIC" (CLEAN) AT 120 SF/GALLON. ALLOW TO DRY. • COVE BASE: IN ADDITION TO THE SEAMLESS INTEGRAL FLOOR, PROVIDE A 4" COVE BASE FROM THE FLOOR TO THE FRP WALL TRANSITION. COVE BASE SHALL CONSIST OF A MIXTURE OF "INCRETE HIGH PERFORMANCE EPOXY" AND FINELY GRADED, CLEAN DRY, "TROUBLEABLE AGGREGATES, TROWELED TO THE PREVIOUSLY INSTALLED VERTICAL CEMENT BOARD SURFACE, TO A HEIGHT OF 4 INCHES. CREATE A COVED, SEAMLESS, INTEGRAL TRANSITION AT JOINT BETWEEN WALL AND FLOOR. BROADCAST UNTIL REFUSAL, "INCRETE GRANITE COAT CHIPS" (MICA) INTO THE WET EPOXY. FINISH COVE BASE DETAIL WITH THE GROUT COAT AND WEAR COAT AS SPECIFIED HEREIN. ONCE COMPLETED, THE FLOOR AND COVE BASE SHALL BE SEAMLESS IN FUNCTION AND APPEARANCE. • b. INSTALL CEMENT WALL BOARD SO THAT THE BOTTOM EDGE IS FLUSH WITH THE FLOOR AS SPECIFIED. • b. INSTALL CEMENT WALL BOARD TAPE, SIMILAR TO GOLDBLATT PROFESSIONAL CEMENT BOARD TAPE, TO ALL JOINT OF CEMENT BOARD. • c. INSTALL FIBER REINFORCED PANELS (FRP) AS REQUIRED. DO NOT APPLY ADHESIVE TO ANY AREAS CONTACTING THE 4" COVE BASE INSTALLATION. DO NOT APPLY WATER TO ANY OF THESE SURFACES PRIOR TO INSTALLATION OF THE EPOXY FLOOR OR COVE SYSTEM. • d. INSTALL 4" COVE BASE DIRECTLY TO CEMENT BOARD. COVE BASE SHALL COME IN DIRECT CONTACT WITH THE BOTTOM EDGE OF THE FIBER REINFORCED PANELS SO THAT THE FLOOR AND COVE BASE SHALL BE SEAMLESS IN FUNCTION AND APPEARANCE.	

DOOR SCHEDULE

MARK	SIZE	TYPE	MATERIAL	FRAME	HARDWARE SET	REMARKS
1	PKG. 14'-0" X 7'-8"	A	STORE FRONT GLASS	ALUM.	1A	SEE NOTES 10, 13 & 14
2	NOT USED					
3	NOT USED					
4	NOT USED					
5A	PR 3'-0"x7'-0"	B	STORE FRONT GLASS	ALUM.	1C	SEE NOTES 4, 10, 17 & 21
5B	PKG 9'-0" X 7'-8"	A	STORE FRONT GLASS	ALUM.	1A	SEE NOTES 10, 13, 14 & 21
6"	FR 3'-0" X 7'-0"	D	ALUM. / GLASS	MTL.	2	SEE NOTE 18
7	CASED OPENING					FURRR DOWN TO 7'-10" A.F.F.
8	3'-0" X 7'-0"	C	S.C. WOOD	H. MTL.	8	SEE NOTE 6
9	3'-0" X 7'-0"	C	S.C. WOOD	H. MTL.	8	SEE NOTE 6
10	3'-0" X 7'-0"	C	S.C. WOOD	H. MTL.	6	SEE NOTE 16
11	3'-0" X 7'-0"	C	S.C. WOOD	H. MTL.	7	SEE NOTE 16
12	3'-0" X 7'-0"	C	INSUL MTL.	INSUL. MTL.	5	SEE NOTES 2, 3 & 10
13A	10'-0" X 10'-0"	E	INSUL MTL.	MTL.	2	SEE NOTES 1, 12 & 15
13B	10'-0" X 10'-0"	E	INSUL MTL.	MTL.	2	SEE NOTES 1, 12 & 15
14	3'-0" X 7'-0"	G	S.C. WOOD	H. MTL.	6	SEE NOTE 20
15	3'-0" X 7'-0"	C	INSUL MTL.	INSUL. MTL.	5B	SEE NOTES 2, 10 & 11
16	3'-0" X 7'-0"	C	S.C. WOOD	H. MTL.	7	SEE NOTE 16
17	3'-0" X 7'-0"	F	STORE FRONT GLASS	ALUM.	1D	SEE NOTES 4, 10, 19 & 21
18	3'-0" X 3'-0"	C	INSUL MTL.	MTL.		SEE NOTE 22
19	2'-6" X 3'-4"	C	INSUL MTL.	MTL.		SEE NOTE 22

\* FRAME SUPPLIED BY TSC, INSTALLED BY CONTRACTOR



DOOR NOTES

1. 10' WIDE X 10' HIGH INSULATED SECTIONAL DOOR W/ ELECTRIC OPERATOR, (2) RADIO REMOTES, TIMER, CHAIN KEEPER AND REVERSING SAFETY EDGE. OVERVIEW BUTTON TO BE SUPPLIED BY OVER-HEAD DOOR VENDOR AND INSTALLED BY GENERAL CONTRACTOR'S ELECTRICIAN. COLOR TO BE FACTORY FINISHED WHITE; IMPACT RESISTANT COLLING DOOR IN HIGH IMPACT ZONES.
2. KEY OUTSIDE.
3. DOOR #12 TO HAVE DOOR BELL, RINGERS TO BE LOCATED @ RECEIVING DESK AND CASH REGISTER, "BIG EYE" VIEWER IN DOOR.
4. DOOR #6A & #17 TO HAVE 4" ALUM. HEAD AND THRESHOLD.
5. SIGNAGE TO BE PROVIDED BY TSC.
6. NOTE THAT DOORS REQUIRE A MINIMUM 10" BOTTOM RAIL TO RECEIVE KICK PLATES.
7. ALL DOORS TO HAVE ADA APPROVED HARDWARE.
8. GENERAL CONTRACTOR TO CHANGE OUT CONSTRUCTION CORES OF ALL HARDWARE PRIOR TO TURNOVER OF STORE. KEY AND TURNOVER DOCUMENT TO BE SIGNED BY GC AND STORE MANAGER.
9. ALL LOCKSETS KEYS TO ESTABLISH TSC GRANDMASTER KEY. ESTABLISH A NEW MASTER KEY AND KEY INDIVIDUALLY AS DIRECTED TO OPERATE ALL CYLINDERS & LOCK SETS. FURNISH (4) COPIES OF THE MASTER KEY, FURNISH 2 KEYS PER LOCK.
10. DOOR #1, #2, #5A, #5B, #15 & #17 KEYS ALIKE, DOOR #12 KEYS SEPARATELY.
11. ELECTRICIAN RESPONSIBLE FOR MAKING FINAL CONNECTION BETWEEN SECURITY VENDOR WORK AND DOOR WIRING.
12. CONTRACTOR TO INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERLAP @ NEW MASONRY OPENING INSIDE NEW DOOR, AIR CURTAIN INCLUSIVE WITH OVER-HEAD DOOR VENDOR PACKAGE. INCLUDES ALL OVER-HEAD DOORS WITH RETROFIT STORES.
13. CONTRACTOR TO PROVIDE AND INSTALL DOOR SWEEPS.
14. DOORS TO HAVE FLAT THRESHOLD PROVIDED BY DOOR MANUFACTURER.
15. THE CHANNELS THAT MAKE UP THE JAMBS AND HEAD FOR THE POLLING SERVICE DOOR AND ITS ATTACHMENT POINTS SHOULD BE FLUSH AND SMOOTH WITH THE SURROUNDING INTERIOR WALLS AS WELL AS ABOVE THE INTERIOR OPENING. PROVIDE A STRUCTURAL SURFACE IN LINE WITH THE JAMBS THAT EXTENDS ABOVE THE OPENING FOR A MINIMUM OF 30" FOR ATTACHMENT POINTS. STRUCTURAL SURFACE TO BE CAPABLE OF WITHSTANDING 1850 LB. POINT FORCE IN EITHER TENSION, COMPRESSION OR SHEAR.
16. PROVIDE AND INSTALL EMPLOYEES ONLY SIGN WHERE INDICATED.
17. W/ 2 EACH CRASH RAILS ON INSIDE OF EACH DOOR.
18. 72" X 96", 72" X 84" OR 36" X 96" OPENINGS TO BE PROVIDED AS: P11PLUS, WITH 10" X 30" ADA COMPLIANT WINDOWS, 18" TALL BUMPERS, COLOR: RED, (OR) OPENINGS 96" X 120" TO BE: DURULITE STANDARD DOORS WITH 20" X 30" ADA COMPLIANT WINDOWS, 36" TALL BUMPERS, COLOR: RED.
19. INSTALL CLEAR ANOZIZED STOREFRONT FRAMING WITH 1/4" TEMP. CLEAR GLASS SIDELIGHTS. DOOR TO SWING OPEN TO SALES AREA. SIDELIGHT GLASS TO ACCEPT 6.25" X 48.85" VINYL FILM, NARROW STILE DOOR WINDOW GLASS TO ACCEPT 30.25" X 57.825" VINYL FILM.
20. ANEMOSTAT WINDOW KIT WITH CLEAR TEMPERED 1/4" GLASS WITH GLAZING TAPE APPLIED (BOTH SHIPPED LOOSE), BY DH PACE.
21. SPIC COMPATIBLE HARDWARE.
22. ACCESS PANEL TO BE SUPPLIED AND INSTALLED BY GC. SEE HARDWARE SPECIFICATIONS.

FINISH SCHEDULE

ROOM NO.	ROOM	WALLS	CEILING	BASE	FLOOR	REMARKS
101	VESTIBULE	PTD. C.M.U. / STOREFRONT	GYP. BD. CEILING PANELS @ 10'-0" A.F.F.	-	POLISHED CONC.	6, 9
102	RETAIL SALES	PTD. GYP. / C.M.U. / SEMI-GLOSS, WHITE	EXP. STRUCTURE FACTORY PRIMED (GRAY)	VINYL	POLISHED CONC. / VINYL PLANK	2, 3, 9
103	NOT USED					
104	DRESSING ROOM	PRE-FABRICATED WALLS	OPEN TO DECK ABOVE	VINYL	VINYL PLANK	2, 9
105	STOCKROOM	PTD. GYP. / C.M.U. / PLYWOOD (SEMI-GLOSS, WHITE) TO DECK	EXP. STRUCTURE FACTORY PRIMED (GRAY)	-	POLISHED CONC.	9
106	CORRIDOR	PTD. GYP. / F.R.P.	A.C.T. @ 8'-0" A.F.F.	VINYL	POLISHED CONC.	1, 4, 7, 9
107	MANAGERS OFFICE	PTD. GYP.	A.C.T. @ 8'-0" A.F.F.	VINYL	POLISHED CONC.	1, 4, 9
108	EMPLOYEE LOUNGE	PTD. GYP.	A.C.T. @ 8'-0" A.F.F.	VINYL	POLISHED CONC.	1, 4, 9
109	MEN	PTD. GYP. / C.M.U. / F.R.P.	A.C.T. @ 8'-0" A.F.F.	VINYL	POLISHED CONC.	1, 4, 5, 9
110	WOMEN	PTD. GYP. / C.M.U. / F.R.P.	A.C.T. @ 8'-0" A.F.F.	VINYL	POLISHED CONC.	1, 4, 5, 9
111	IT / ELECTRICAL	PTD. C.M.U. / PLYWOOD (SEMI-GLOSS, WHITE) TO DECK	EXP. STRUCTURE FACTORY PRIMED (GRAY)	-	POLISHED CONC.	9
112	PET WASH	F.R.P. / ALUMINUM MESH	ALUMINUM MESH SCREEN @ 10'-0" A.F.F.	EPOXY	EPOXY	

1. CEILING TILE: 2' x 4' X 3/4" MINERAL BOARD, NON-DIRECTIONAL, ASSURED, MEDIUM TEXTURE, FLAME RESISTANCE CLASS A, FLAME SPREAD CLASS I
2. VINYL PLANK: TO BE DELIVERED BY TSC; SUPPLIED, PURCHASED AND INSTALLED BY CONTRACTOR. BEVELED EDGE VINYL PLANK TO BE USED AT EXPOSED TRANSITION OF VINYL PLANK TO CONCRETE.
3. RED ACCENT STRIPE @ 10'-3" FROM FINISH FLOOR TO BOTTOM OF STRIPE - 1'-0" STRIPE
4. WALL COLOR TO BE (SW7036 ACCESSIBLE BEIGE). TRIM AND DOORS TO BE (SW1012 POWER GRAY).
5. FRP WAINSCOT TO BE INSTALLED ON ALL NON-MASONRY WALLS 4'-0" A.F.F. COLOR: XA WHITE, FINISH: TEXTURED.
6. GRID STONE GYPSUM CEILING PANELS 12" X 2' X 4'
7. FRP WAINSCOT TO BE INSTALLED BEHIND AND ON ALL SIDES OF THE WATER COOLER alcove TO 4'-0" A.F.F. COLOR: XA WHITE, FINISH: TEXTURED.
8. DRESSING ROOM IS PURCHASED AND INSTALLED BY TSC.
9. GENERAL CONTRACTOR RESPONSIBLE FOR ALL CONCRETE REPLACEMENT, TRENCH POUND BACKS AND FILLING/PATCHING BACK OF HOLES 3" OR LARGER AND IN-GROUND ELECTRICAL BOXES NOT IN USE.

HARDWARE SCHEDULE

SET #	DOORS	QUANTITY	ITEM	MANUFACTURER
1A	1, 5B	1 EA. 1 EA. 1 EA.	MORTISE CYLINDER 28107-1-26D 10C7A2 (GREEN CONSTRUCTION CORE)-GREEN MORTISE THUMB TURN CYLINDER-26D BALANCE OF HARDWARE BY DOOR SUPPLIER	ILC BEST ILC
1B	NOT USED	2 EA.	DUMMY CYLINDER 71600C-26D BALANCE OF HARDWARE BY DOOR SUPPLIER	ILC
1C	5A	1 EA. 1 EA. 1 EA.	THUMB TURN -CYLINDER -26D MORTISE CYLINDER 28107-1-26D DRIP CAP 16A X 76 - A BALANCE OF HARDWARE BY DOOR SUPPLIER	ILC ILC NAT
1D	17	1 EA. 1 EA. 1 EA.	MORTISE CYLINDER 28107-1-26D DUMMY CYLINDER 71600C-26D CYLINDER CORE 10C7A2 (GREEN CONSTRUCTION CORE) BALANCE OF HARDWARE BY DOOR SUPPLIER	ILC ILC BEST
2	6, 13A, 13B		ALL HARDWARE BY DOOR SUPPLIER	
3	NOT USED	3 EA. 1 EA. 1 EA. 3 EA.	MCKS MPB79 4 1/2 X 4 1/2 NRP- 26D SURFACE CLOSER SC81A RW/PA AS SPECIFIED- 689 STOREROOM LOOKSET T3819D X D X 23961137 X 5164 X 1 3/4 WALL STOP WS407- CCV-US32D SILENCER SR64-GRY	MCK FAL FAL IVE
4	NOT USED	1 EA. 1 EA. 3 EA.	CONTINUOUS HINGE 22HD PRIVACY LOCK T3015 X D X 23961137 X 5164 X 1 3/4- 626 SILENCER SR64-GRY	MCK FAL FAL
5	12	3 EA. 1 EA. 2 EA. 1 EA. 1 EA. 1 EA. 1 EA.	HINGES MPB79 4 1/2 X 4 1/2 NRP- 26D ALARMED EXIT DEVICE ECL-230D-GRAY RIM CYLINDER R28207-9 SURFACE FULL RN US28 CLOSER, PARALLEL ARM SC81A X DS X SLIM-689 1 EA. THRESHOLD 896V- MILL DOOR BOTTOM 795WH- MILL 1 EA. WEATHERSTRIP 160V - MILL 1 EA. DRIP CAP 16A X 76 - A 1 EA. VIEWER U698 B28D (MOUNT 60' CLAF-F.) (DOOR 12 ONLY)	MCK MCK DET ILC FAL NAT NAT NAT
5B	15	3 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA.	HINGES MPB79 4 1/2 X 4 1/2 NRP- 26D RIM EXIT DEVICE V40 X DC X EE X TSC- 711 POWER TRANSFER PTS MORTISE CYLINDER 28107-1-26D 1 EA. CLOSER, PARALLEL ARM SC81A X DS X SLIM-689 1 EA. THRESHOLD 896 V- MIL 1 EA. WEATHER STRIPING 160V - MILL 1 EA. DRIP CAP 16A-A	MCK DET DET ILC FAL NAT NAT
6	10, 14	3 EA. 1 EA. 1 EA. 1 EA. 3 EA.	HINGES MPB79 4 1/2 X 4 1/2 NRP- 26D PUSH PLATE 8200 X 4 X 16 - US32D FULL PLATE 8202-0 X 4 X 16 - US 32D CLOSER SC81A X RW/PA X SLIM-689 WALL STOP WS407-CCV-US32D SILENCERS SR64-GRY	MCK IVE IVE FAL IVE IVE
7	11, 16	3 EA. 1 EA. 1 EA. 1 EA. 3 EA.	HINGES MPB79 4 1/2 X 4 1/2 NRP- 26D RIM EXIT DEVICE T51 X D X 23961137 X 5164 X 1 3/4-626 CLOSER SC81A X RW/PA X SLIM-689 (DOOR 11 ONLY) WALL STOP WS407-CCV-US32D SILENCERS SR64-GRY	MCK FAL FAL IVE IVE
8	8, 9	3 EA. 1 EA. 1 EA. 1 EA. 3 EA.	HINGES MPB79 4 1/2 X 4 1/2 NRP- 26D PRIVACY LOCKSET T3015 X D X 23961137 X 5164 X 1 3/4 -626 CLOSER SC81A X RW/PA X SLIM-689 WALL STOP WS407-CCV-US32D SILENCERS SR64-GRY	MCK FAL FAL IVE IVE
GABLE FACADE ACCESS PANEL		1 EA. 1 EA. 1 EA.	ACCESS PANEL BXTM-30X42 DUMMY CYLINDER 71600C-26D CYLINDER CORE 10C7A2 (GREEN CONSTRUCTION CORE) BALANCE OF HARDWARE BY DOOR SUPPLIER	BAB ILC ILC BEST
SOFT ACCESS PANEL		1 EA. 1 EA. 1 EA.	ACCESS PANEL BXTM-30X42 DUMMY CYLINDER 71600C-26D CYLINDER CORE 10C7A2 (GREEN CONSTRUCTION CORE) BALANCE OF HARDWARE BY DOOR SUPPLIER	BAB ILC ILC BEST

"IF SECONDARY EXIT IS REQUIRED IN STOCKROOM ALARMED EXIT DEVICE ECL-230D-GRAY IS TO BE INSTALLED.  
ALL LOCKSETS WILL BE FURNISHED CONSTRUCTION KEYS. AT THE END OF THE CONSTRUCTION PERIOD NEW PERMANENT CORES BY INSTAKEY WILL BE FURNISHED TO THE CONTRACTOR WHO WILL THEN CHANGE THEM OUT AND RETURN THE CONSTRUCTION CORES TO THE SUPPLIER.  
THERE WILL BE A SEALED CARTON WITH THE SHIPMENT. THE CONTRACTOR IS TO TURN THAT SEALED CARTON OVER TO THE TSC STORE MANAGER AND GET THEIR SIGNATURE ON THE ENCLOSED RECEIPT. FORWARD THAT RECEIPT ALONG WITH THE CONSTRUCTION CORES AND CONTROL KEYS TO THE SUPPLIER, DH PACE.  
THE ITEMS IN THE SEALED CARTON ARE FOR FUTURE STORE OPERATIONS AND ARE NOT CONSTRUCTION RELATED.  
NOTE: TRACTOR SUPPLY COMPANY HAS A NATIONAL ACCOUNT WITH DH PACE FOR DOOR HARDWARE. CONTACT: CHARLES GIRTMAN @ TSCDOORS@DHPACE.COM OR #816.221.0543

**DOOR-OPENING FORCE** - FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS:  
1. INTERIOR HINGED DOOR: 5.0 POUNDS MAXIMUM  
2. SLIDING OR FOLDING DOOR: 5.0 POUNDS MAXIMUM  
THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION.  
ALL LOCKSETS WILL BE FURNISHED CONSTRUCTION KEYS. AT THE END OF THE CONSTRUCTION PERIOD, NEW PERMANENT CORES BY INSTAKEY WILL BE FURNISHED TO THE CONTRACTOR WHO WILL THEN CHANGE THEM OUT AND RETURN THE CONSTRUCTION CORES TO THE SUPPLIER. THERE WILL BE A SEALED CARTON WITH THE SHIPMENT. THE CONTRACTOR IS TO TURN THAT SEALED CARTON OVER TO THE TSC STORE MANAGER AND GET THEIR SIGNATURE ON THE ENCLOSED RECEIPT. FORWARD THAT RECEIPT ALONG WITH THE CONSTRUCTION CORES AND CONTROL KEYS TO THE SUPPLIER, "MWM". THE ITEMS IN THE SEALED CARTON ARE FOR FUTURE STORE OPERATIONS AND ARE NOT CONSTRUCTION RELATED.



# ACCESSIBILITY STANDARDS

## CHAPTER 3: BUILDING BLOCKS

### 302 - FLOOR OR GROUND SURFACES

302.2 CARPET, CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/NO CUT PILE TEXTURE.

PILE HEIGHT SHALL BE 1/2" INCH (13 MM) MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 303.

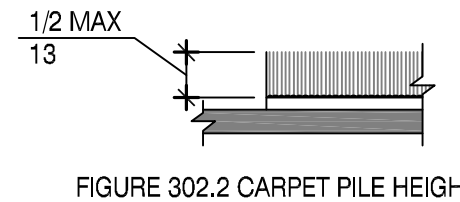


FIGURE 302.2 CARPET PILE HEIGHT

302.3 OPENINGS. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2" INCH (13 MM) DIAMETER EXCEPT AS ALLOWED IN 407.4.3, 409.4.3, 410.4, 810.5.3 AND 810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

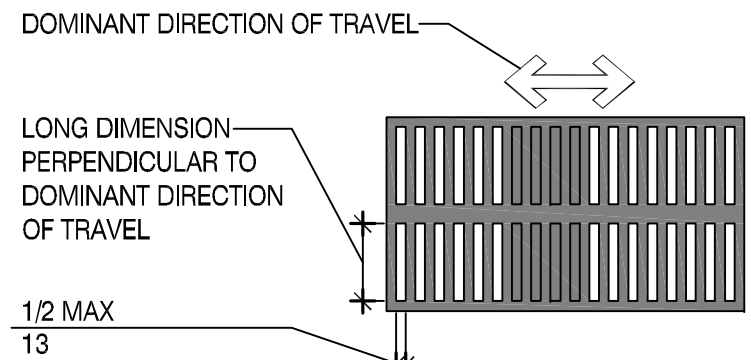


FIGURE 302.3 ELONGATED OPENINGS IN FLOOR OR GROUND SURFACES

303.2 VERTICAL. CHANGES IN LEVEL OF 1/4" INCH (6.4 MM) HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL.

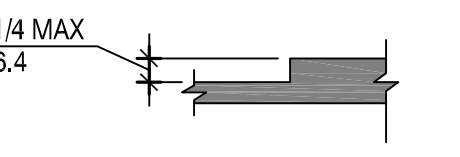


FIGURE 303.2 VERTICAL CHANGE IN LEVEL

303.3 BEVELED. CHANGES IN LEVEL BETWEEN 1/4" INCH (6.4 MM) HIGH AND 1/2" INCH (13 MM) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:12.

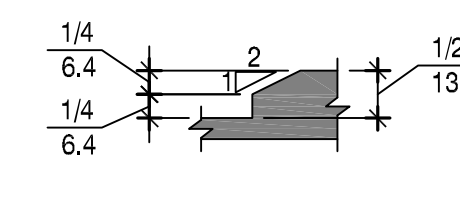


FIGURE 303.3 BEVELED CHANGE IN LEVEL

### 304 TURNING SPACE

304.3.1 CIRCULAR SPACE. THE TURNING SPACE SHALL BE A SPACE OF 60 INCHES (1525 MM) DIAMETER MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

304.3.2 T-SHAPED SPACE. THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH (1525 MM) SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES (915 MM) WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES (305 MM) MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES (610 MM) MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.

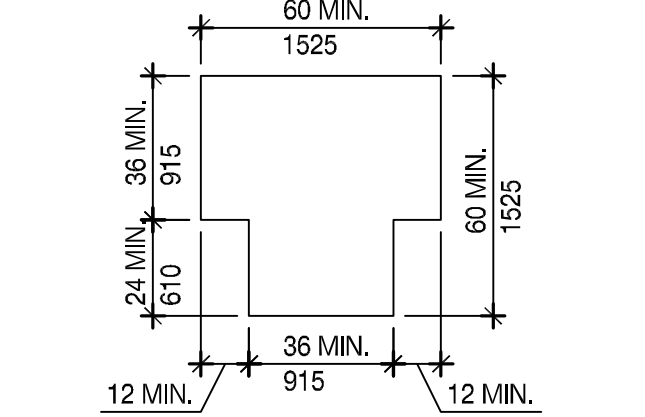


FIGURE 304.3.2 T-SHAPED TURNING SPACE

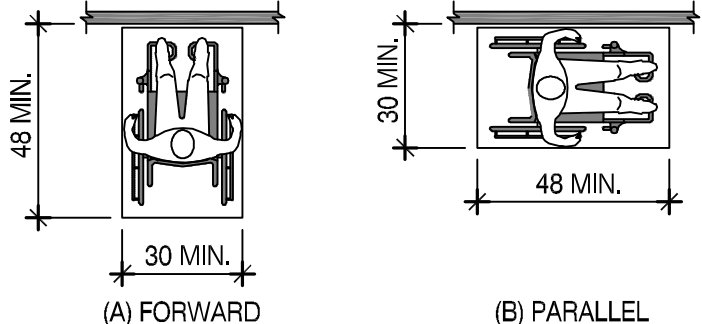


FIGURE 305.5 POSITION OF CLEAR FLOOR OR GROUND SPACE

305.7.1 FORWARD APPROACH. ALLOWS SHALL BE 36 INCHES (915 MM) WIDE MINIMUM WHERE THE DEPTH EXCEEDS 24 INCHES (610 MM).

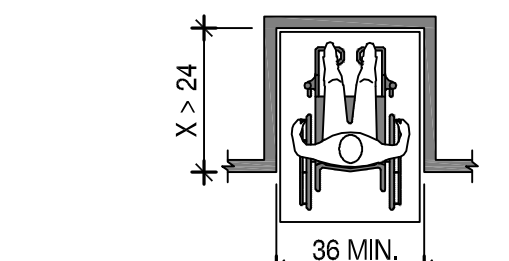


FIGURE 305.7.1 MANEUVERING CLEARANCE IN AN ALLOVE, FORWARD APPROACH

305.7.2 PARALLEL APPROACH. ALLOWS SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES (380 MM).

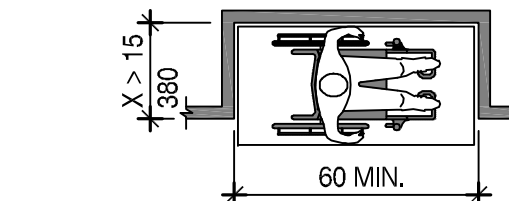


FIGURE 305.7.2 MANEUVERING CLEARANCE IN AN ALLOVE PARALLEL APPROACH

### 306 KNEE AND TOE CLEARANCE

#### 306.2 TOE CLEARANCE

306.2.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH 306.2.

306.2.2 MAXIMUM DEPTH. TOE CLEARANCE SHALL EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT.

306.2.3 MINIMUM REQUIRED DEPTH. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES (430 MM) MINIMUM UNDER THE ELEMENT.

306.2.4 ADDITIONAL CLEARANCE. SPACE EXTENDING GREATER THAN 6 INCHES (150 MM) BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.

306.2.5 WIDTH. TOE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.

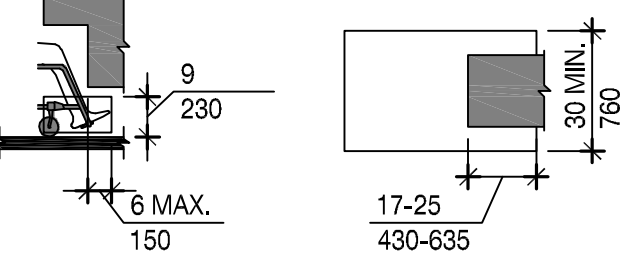


FIGURE 306.2 TOE CLEARANCE

#### 306.3 KNEE CLEARANCE

306.3.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES (230 MM) AND 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3.

306.3.2 MAXIMUM DEPTH. KNEE CLEARANCE SHALL EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND.

306.3.3 MINIMUM REQUIRED DEPTH. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES (280 MM) DEEP MINIMUM AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND AND 8 INCHES (205 MM) DEEP MINIMUM AT 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND.

306.3.4 CLEARANCE REDUCTION. BETWEEN 9 INCHES (230 MM) AND 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1 INCH (25 MM) IN DEPTH FOR EACH 6 INCHES (150 MM) IN HEIGHT.

306.3.5 WIDTH. KNEE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.

### 307 PROTRUDING OBJECTS

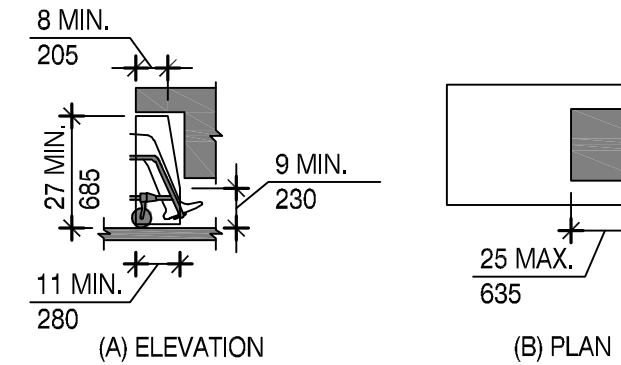


FIGURE 306.3 KNEE CLEARANCE

307.2 PROTRUSION LIMITS. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (685 MM) AND NOT MORE THAN 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES (100 MM) MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.

EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4 1/2 INCHES (115 MM) MAXIMUM.

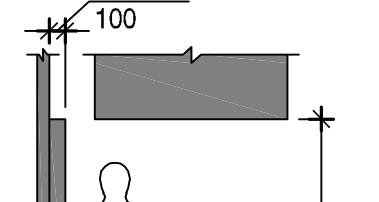


FIGURE 307.2 LIMITS OF PROTRUDING OBJECTS

307.4 VERTICAL CLEARANCE. VERTICAL CLEARANCE SHALL BE 80 INCHES (2030 MM) HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES (2030 MM) HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.

EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

307.4 VERTICAL CLEARANCE. VERTICAL CLEARANCE SHALL BE 80 INCHES (2030 MM) HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES (2030 MM) HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

403.5.2 CLEAR WIDTH AT TURN. WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48 INCHES (1220 MM) WIDE, CLEAR WIDTH SHALL BE 42 INCHES (1065 MM) MINIMUM APPROACHING THE TURN, 48 INCHES (1220 MM) MINIMUM AT THE TURN AND 42 INCHES (1065 MM) MINIMUM LEAVING THE TURN.

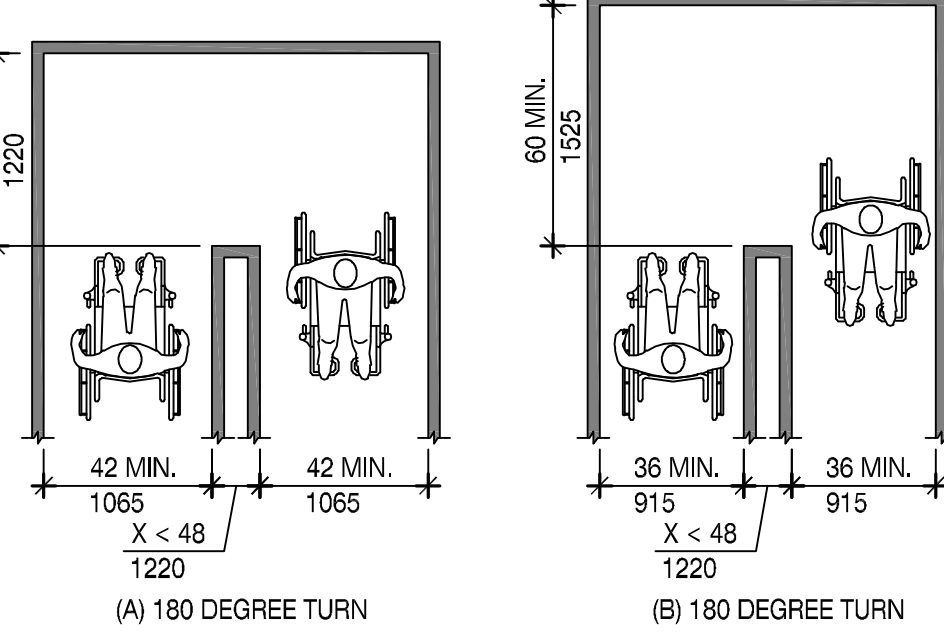


FIGURE 403.5.2 CLEAR WIDTH AT TURN

403.5.3 PASSING SPACES. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES (1525 MM) SHALL PROVIDE PASSING SPACES AT INTERVALS AT 200 FEET (61 M) MAXIMUM.

404.2.3 CLEAR WIDTH. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (815 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (915 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (865 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (865 MM) AND 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (100 MM).

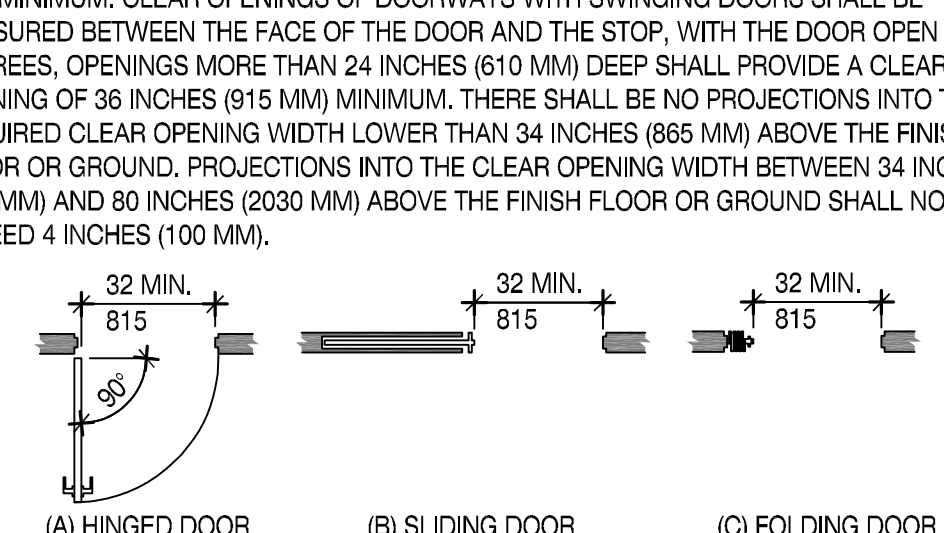


FIGURE 404.2.3 CLEAR WIDTH OF DOORWAYS

404.2.4 MANEUVERING CLEARANCES. MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH 404.2.4. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH OR HINGE SIDE CLEARANCE.

404.2.4.3 RECESSED DOORS AND GATES. MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES (455 MM) OF THE LATCH SIDE OF A DOORWAY PROJECTS MORE THAN 8 INCHES (205 MM) BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR GATE.

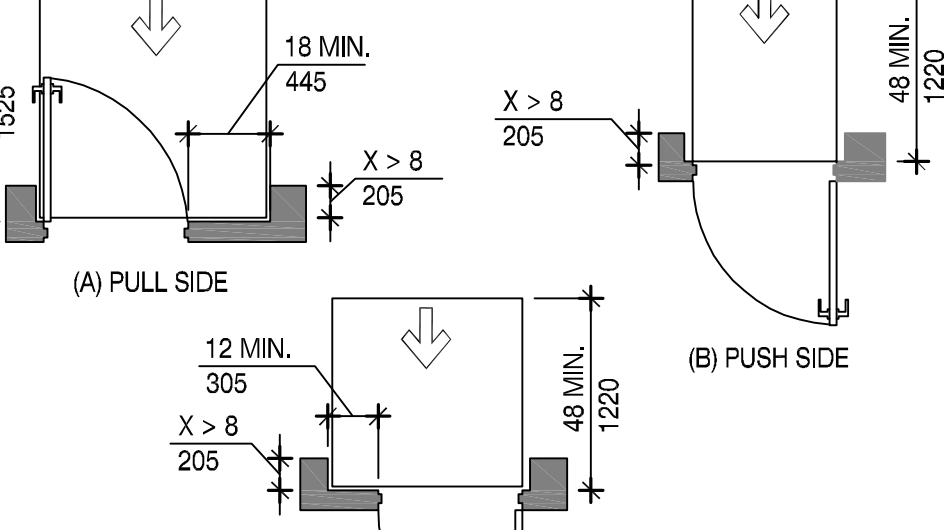


FIGURE 404.2.4.3 CLEAR WIDTH OF DOORWAYS

404.2.4.3 RECESSED DOORS AND GATES. MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES (455 MM) OF THE LATCH SIDE OF A DOORWAY PROJECTS MORE THAN 8 INCHES (205 MM) BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR GATE.

EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

307.4 VERTICAL CLEARANCE. VERTICAL CLEARANCE SHALL BE 80 INCHES (2030 MM) HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES (2030 MM) HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.

EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

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602.3 OPERABLE PARTS. OPERABLE PARTS SHALL COMPLY WITH 309.

602.4 SPOUT HEIGHTS. SPOUT OUTLETS SHALL BE 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

602.5 SPOUT LOCATION. THE SPOUT SHALL BE LOCATED 15 INCHES (380 MM) MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES (125 MM) MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS.

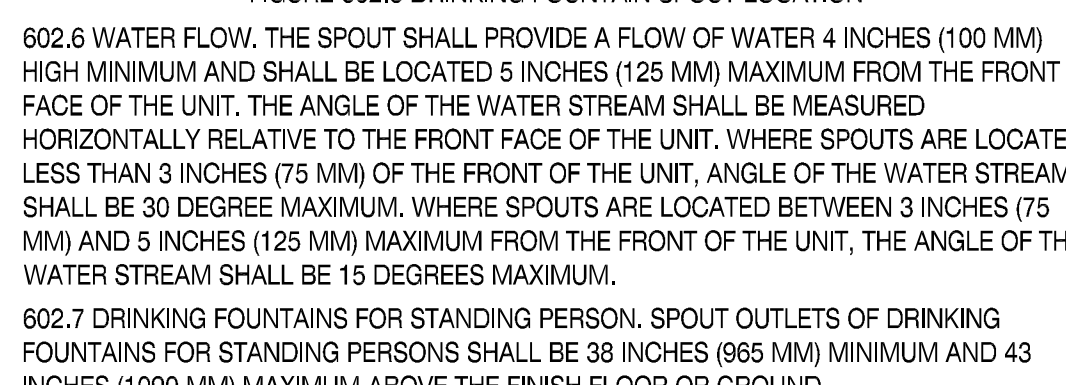


FIGURE 602.5 DRINKING FOUNTAIN SPOUT LOCATION

602.6 WATER FLOW. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES (100 MM) HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES (125 MM) MAXIMUM FROM THE FRONT FACE OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WATER SPOUTS ARE LOCATED LESS THAN 33 DEGREE MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 33 DEGREES (75 MM) AND 5 INCHES (125 MM) MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.

602.7 DRINKING FOUNTAINS FOR STANDING PERSONS. SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING PERSONS SHALL BE 36 INCHES (915 MM) MINIMUM AND 43 INCHES (1090 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

603 TOILET AND BATHING ROOMS

603.2 CLEARANCE. CLEARANCES SHALL COMPLY WITH 603.2.

603.2.1 TURNING SPACE. TURNING SPACE COMPLYING WITH 304 SHALL BE PROVIDED WITHIN THE ROOM.

603.2.2 OVERLAP. REQUIRED CLEAR FLOOR SPACES, CLEARANCE AT FIXTURES, AND TURNING SPACE SHALL BE PERMITTED TO OVERLAP.

603.2.3 DOOR SWING. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS SHALL BE PERMITTED TO SWING INTO THE REQUIRED TURNING SPACE.

603.3 MIRRORS. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES (1015 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES (890 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

603.4 COAT HOOKS AND SHELVES. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308. SHELVES SHALL BE LOCATED 40 INCHES (1015 MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FINISH FLOOR.

604 WATER CLOSETS AND TOILET COMPARTMENTS

604.2 LOCATION. THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES (405 MM) MINIMUM TO 18 INCHES (455 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.8.2. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH.

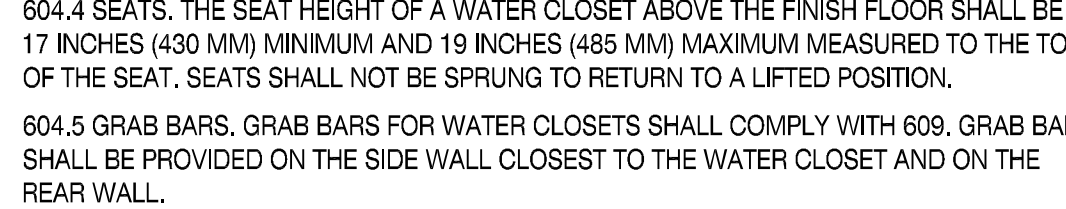


FIGURE 604.2 LOCATION AT WATER CLOSETS

604.3.1 SIZE. CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES (1525 MM) MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 60 INCHES (1525 MM) MINIMUM MEASURED PERPENDICULAR TO THE REAR WALL.

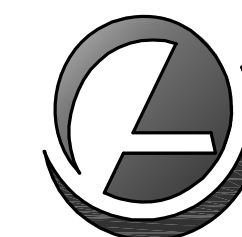
604.3.2 OVERLAP. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET. ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE, NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

604.4 SEATS. THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.

604.5 GRAB BARS. GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH 609. GRAB BARS SHALL BE PROVIDED ON THE SIDE WALL, CLOSET TO THE WATER CLOSET AND ON THE REAR WALL.

604.5.1 SIDE WALL. THE SIDE WALL GRAB BAR SHALL BE 42 INCHES (1065 MM) LONG MINIMUM, LOCATED 12 INCHES (305 MM) MAXIMUM FROM THE





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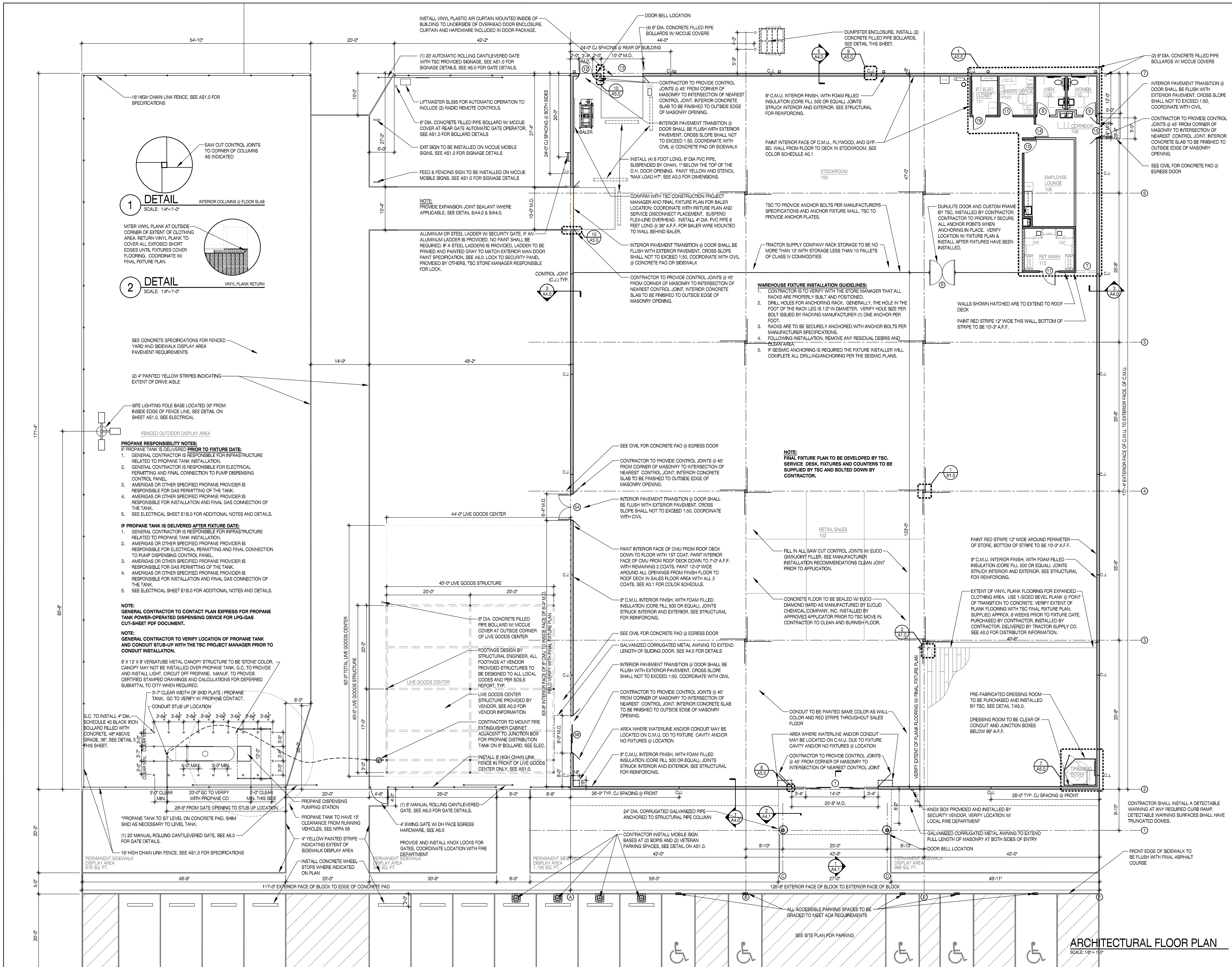
Date: 01.20.2025

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Revisions: ARCHITECTURAL FLOOR PLAN

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Technical drawing of a 4' swing gate. The drawing shows a side view of the gate with dimensions and callouts for various components. The gate is 4 feet wide and 8 feet high. It features a 2" O.D. SS40 header, a 4" swing gate with a diamond mesh pattern, a 3" O.D. SS40 gate stop and latch, a kick-plate to be provided at 10" x full width of gate, 1x18" galvanized plate mounting at base of door, and 3" steel hinges. A detail view of the outside pull switch with a keyed lock is shown on the right. The drawing also indicates a 10' dimension for the gate's width and a 1'-0" dimension for the gate's height. A note at the bottom left indicates a FIN. GRADE 0'-0" dimension.

2" O.D. SS40 HEADER

4" SWING GATE, DIH FACE  
PROVIDED EGRESS  
HARDWARE AND PLATE,  
CENTER OF PLATE TO BE MTD  
@ 40" A.F.G.

GATE STOP & LATCH

3" O.D. SS40

KICK-PLATE TO BE PROVIDE  
AT 10" X FULL WIDTH OF GATE  
X 18" GALVANIZED PLATE  
MOUNTING AT BASE OF DOOR.

3" STEEL HINGES

OUTSIDE PULL SWITCH  
WITH KEYED LOCK

8'-4"

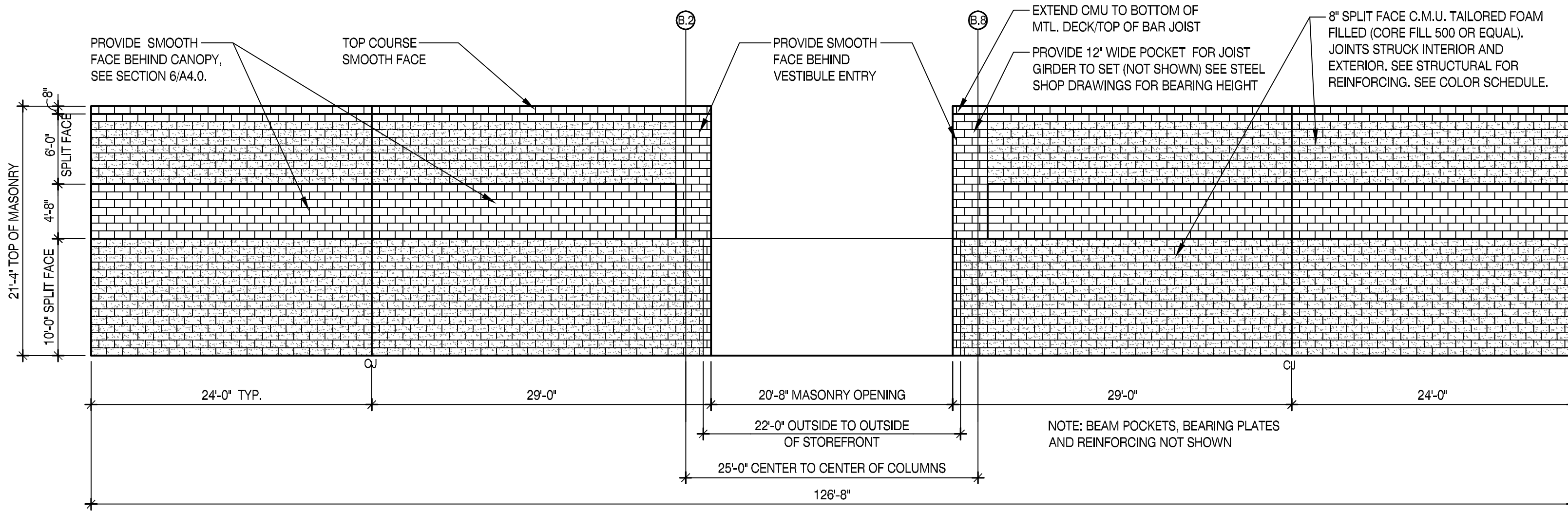
24"

10'

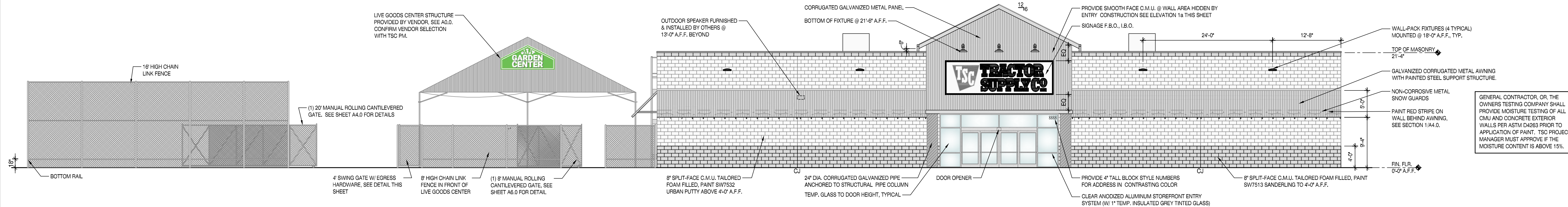
1'-0"

FIN. GRADE  
0'-0"

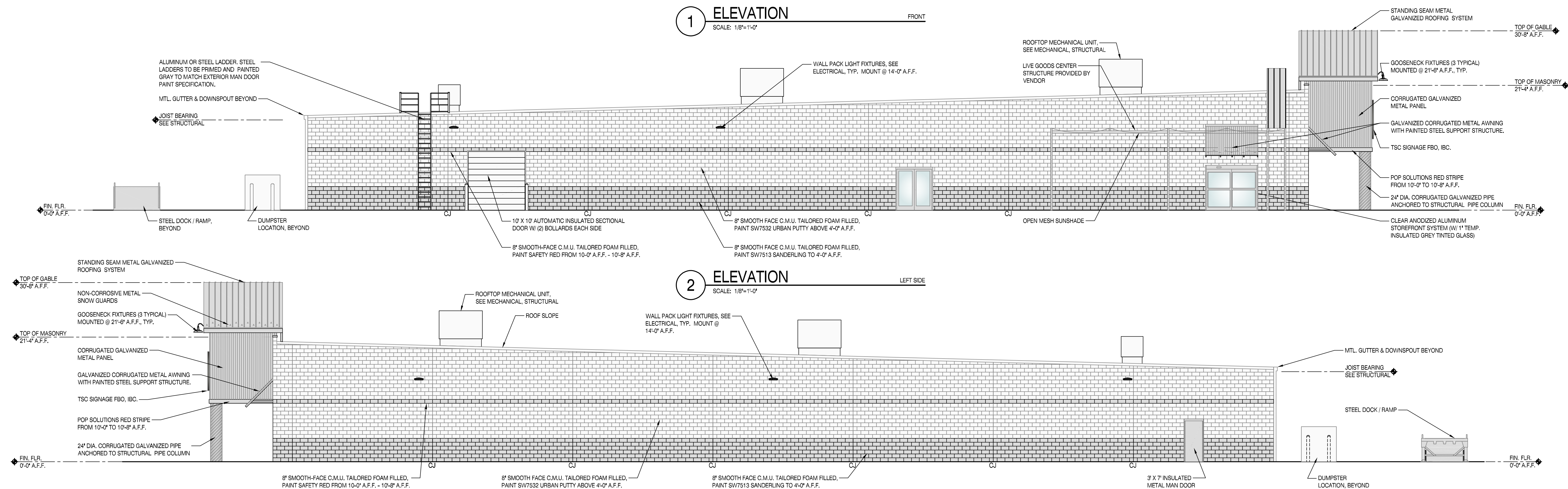
**5** **DETAIL**  
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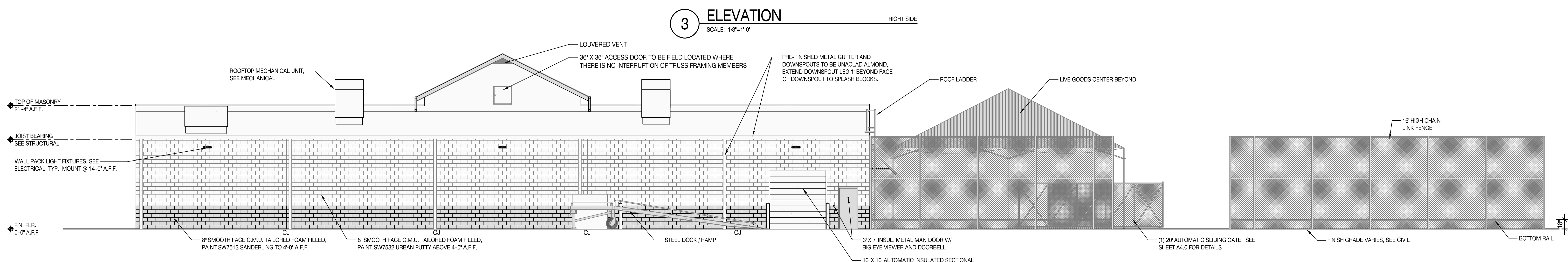
1a ELEVATION  
SCALE: 1/8"=1'-0"



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



**2 ELEVATION**  
SCALE: 1/8"=1'-0"



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

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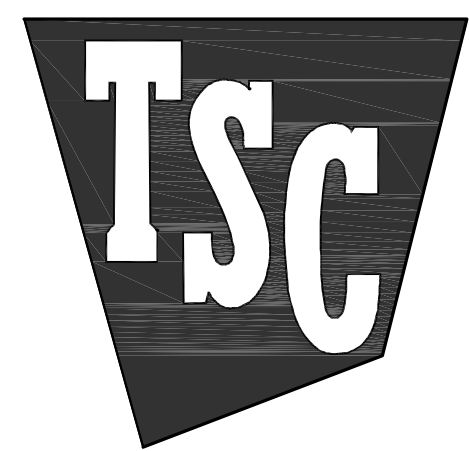




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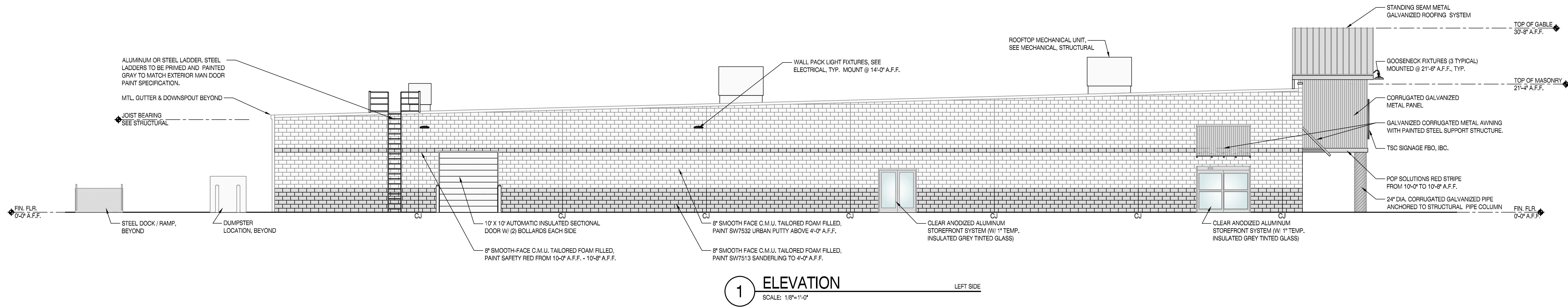
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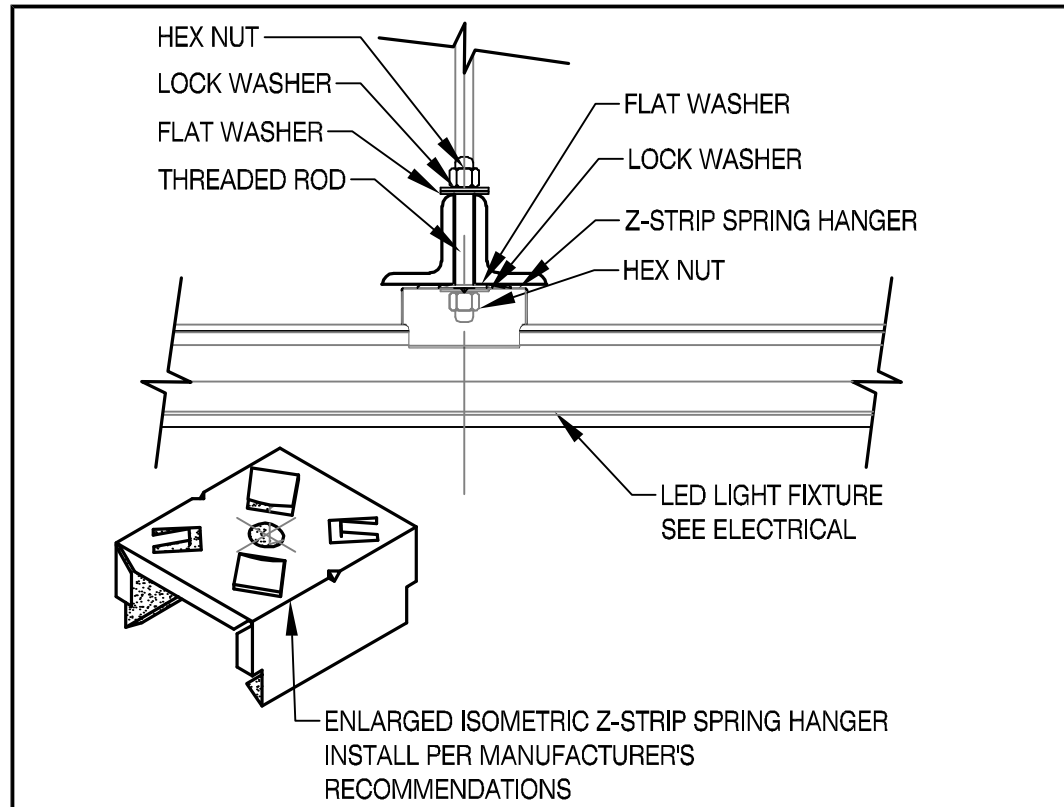
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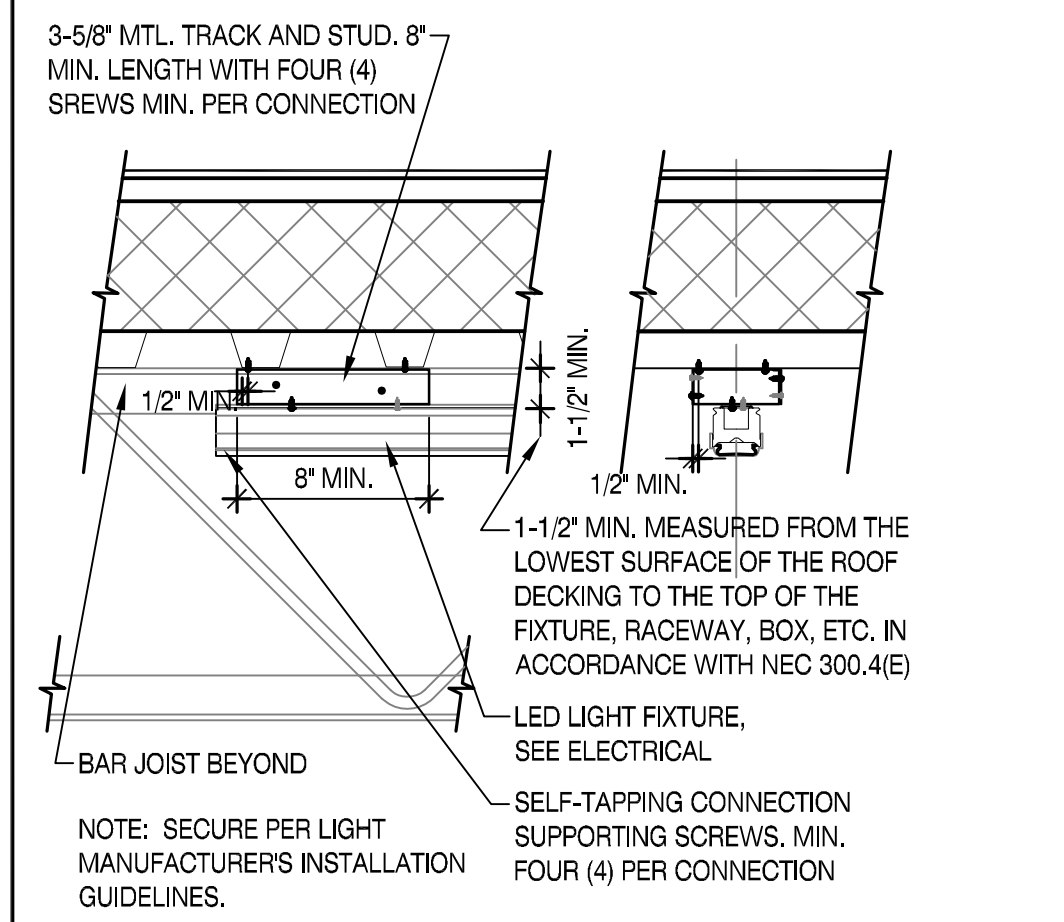
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Sheet Number: A2.1

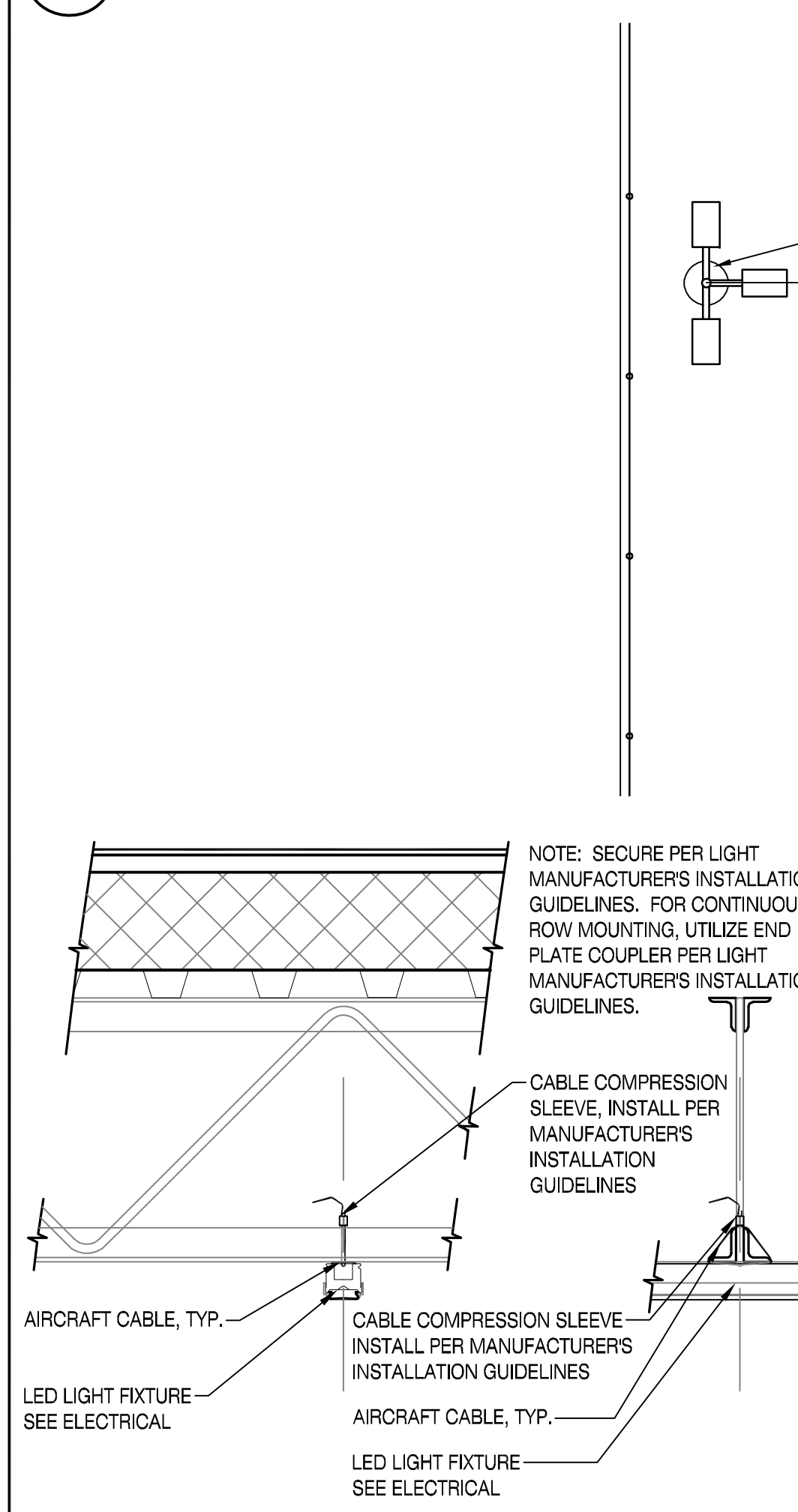




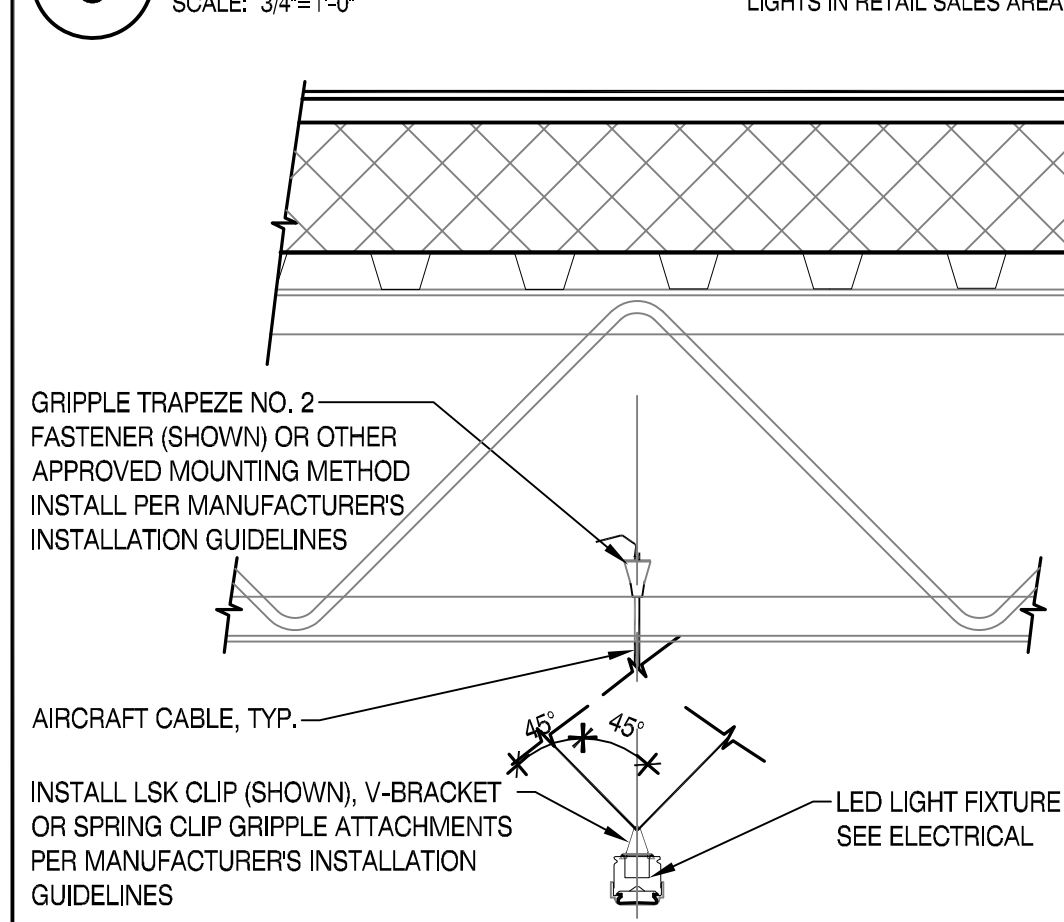
**1 Z-STRIP SPRING HANGER**  
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LIGHTS IN RETAIL SALES AREA



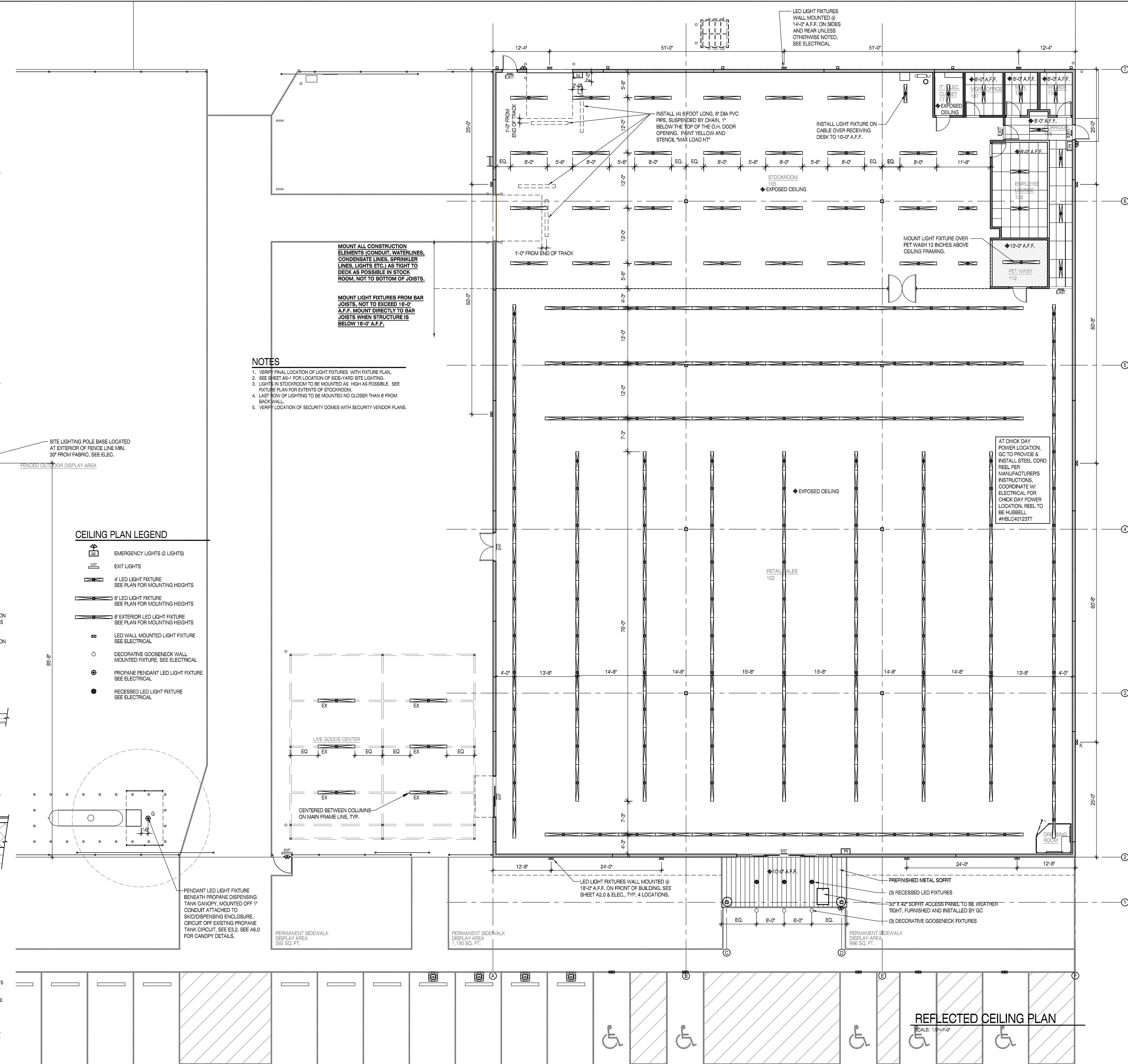
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LIGHTS IN STOCKROOM AREA



**3 ALTERNATE ATTACHMENT DTL.**  
SCALE: 3/4"=1'-0"  
LIGHTS IN RETAIL SALES AREA



**4 ALTERNATE ATTACHMENT DTL.**  
SCALE: 3/4"=1'-0"  
LIGHT ABOVE PET WASH







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## A4.0





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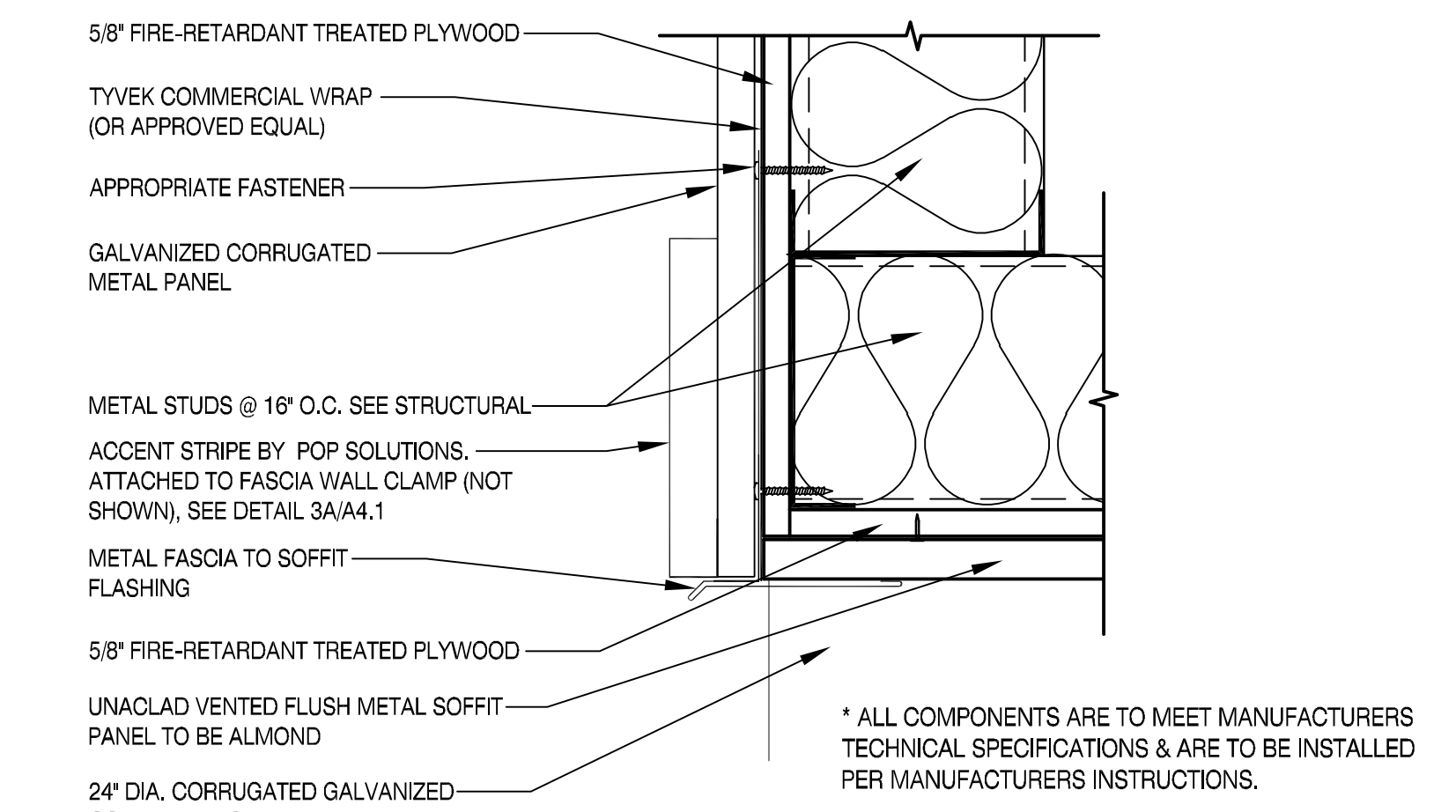
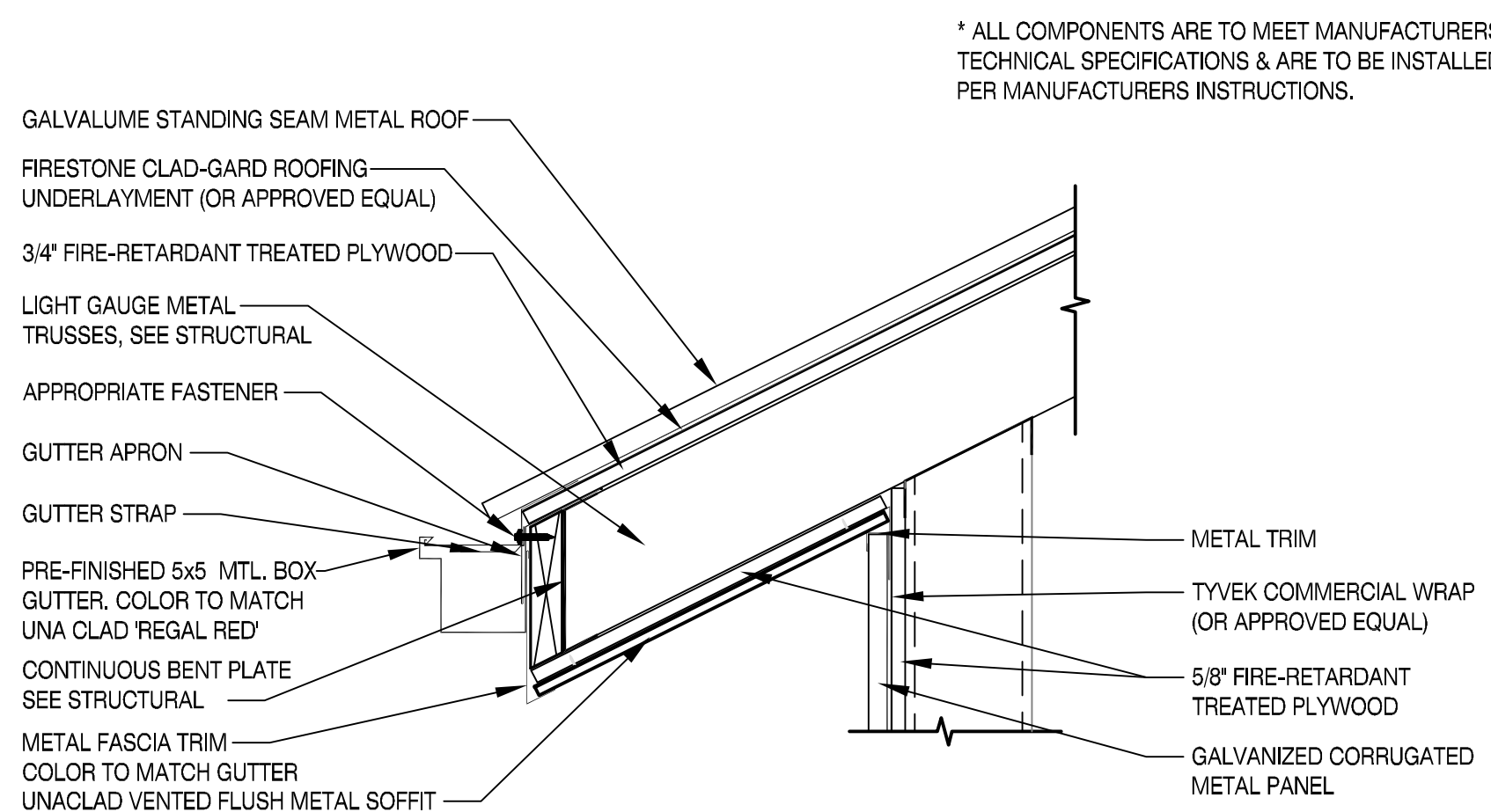
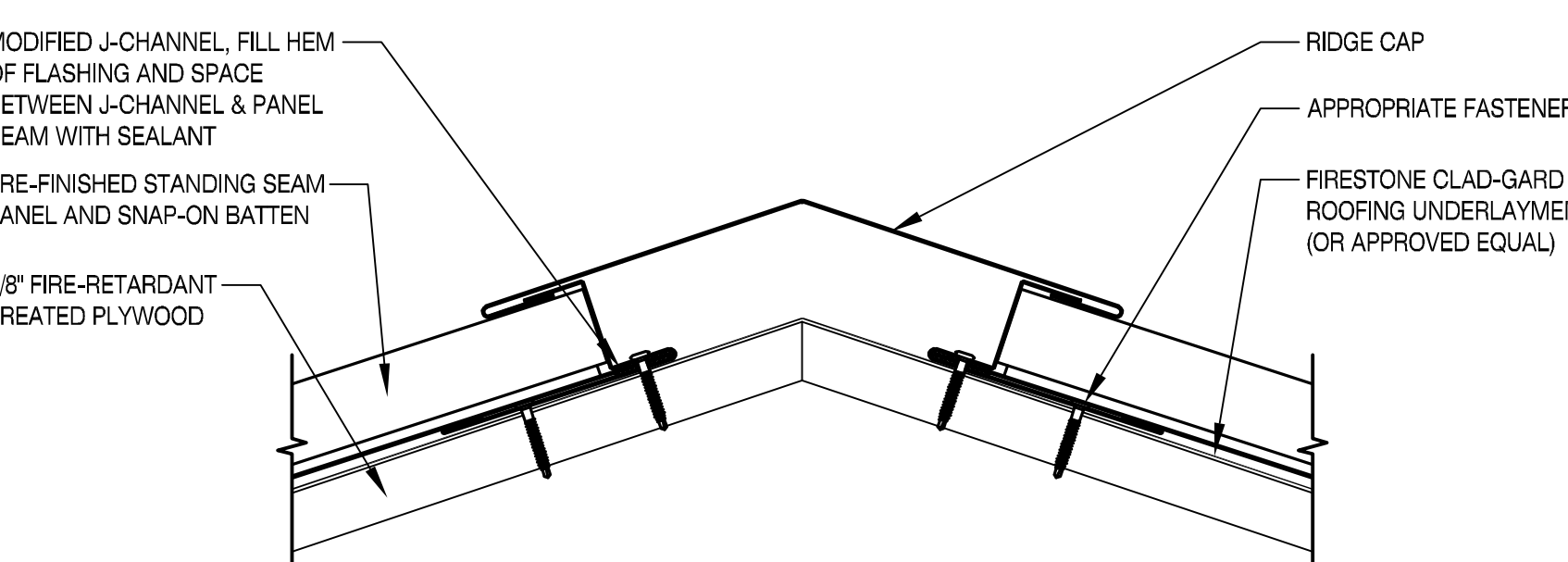
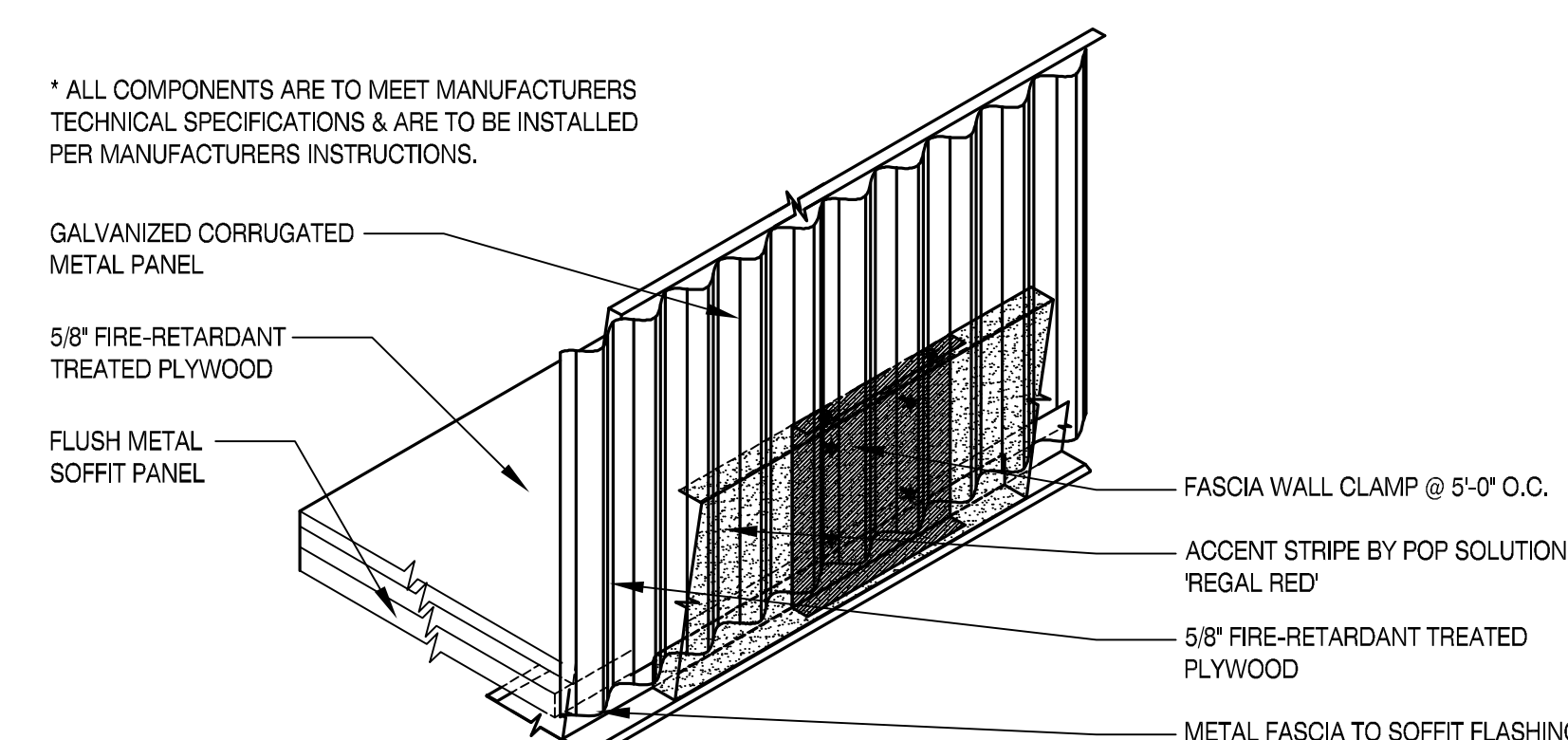
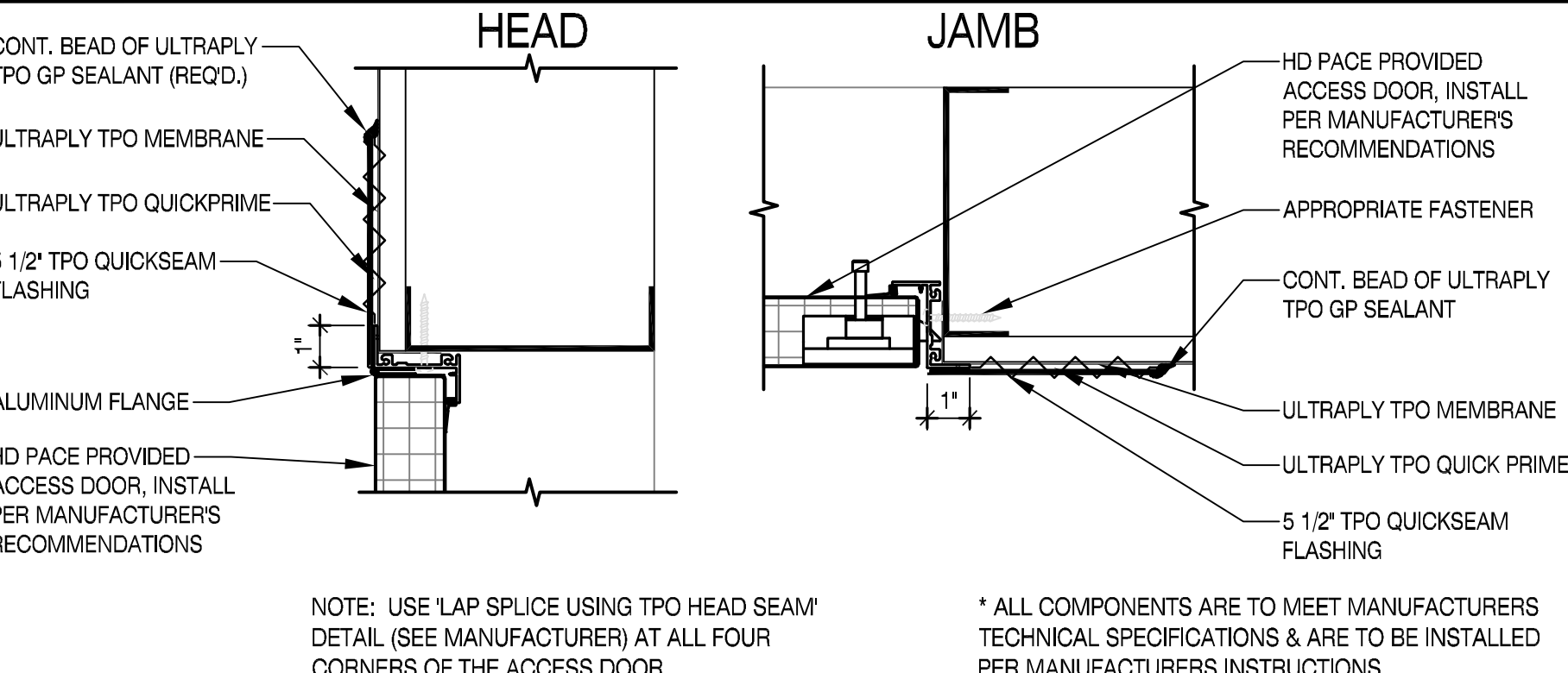
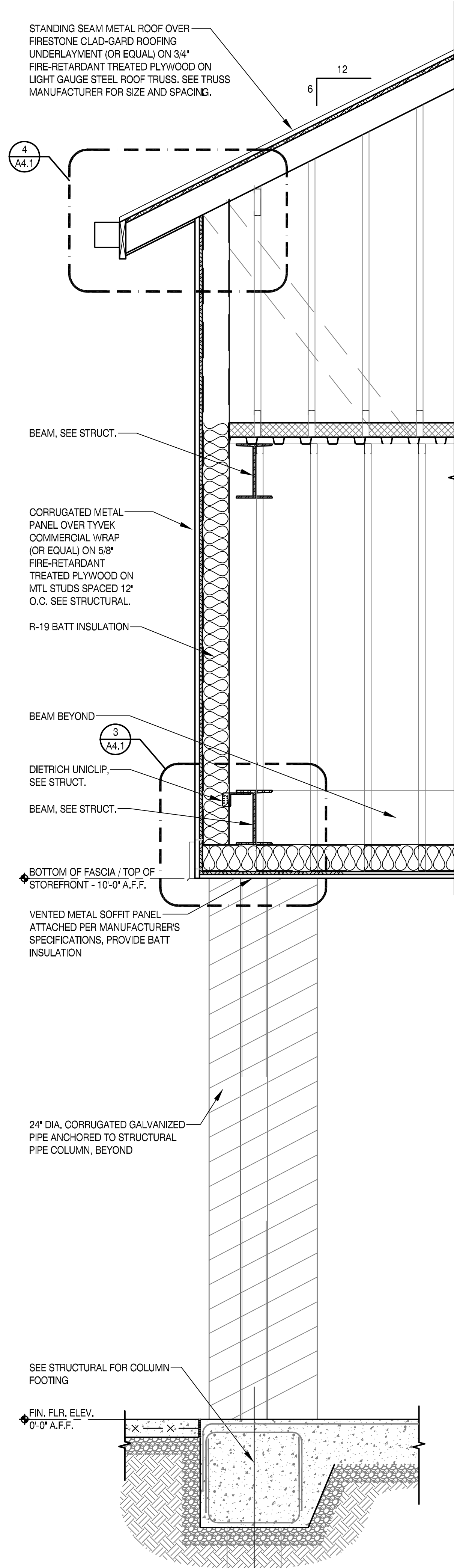
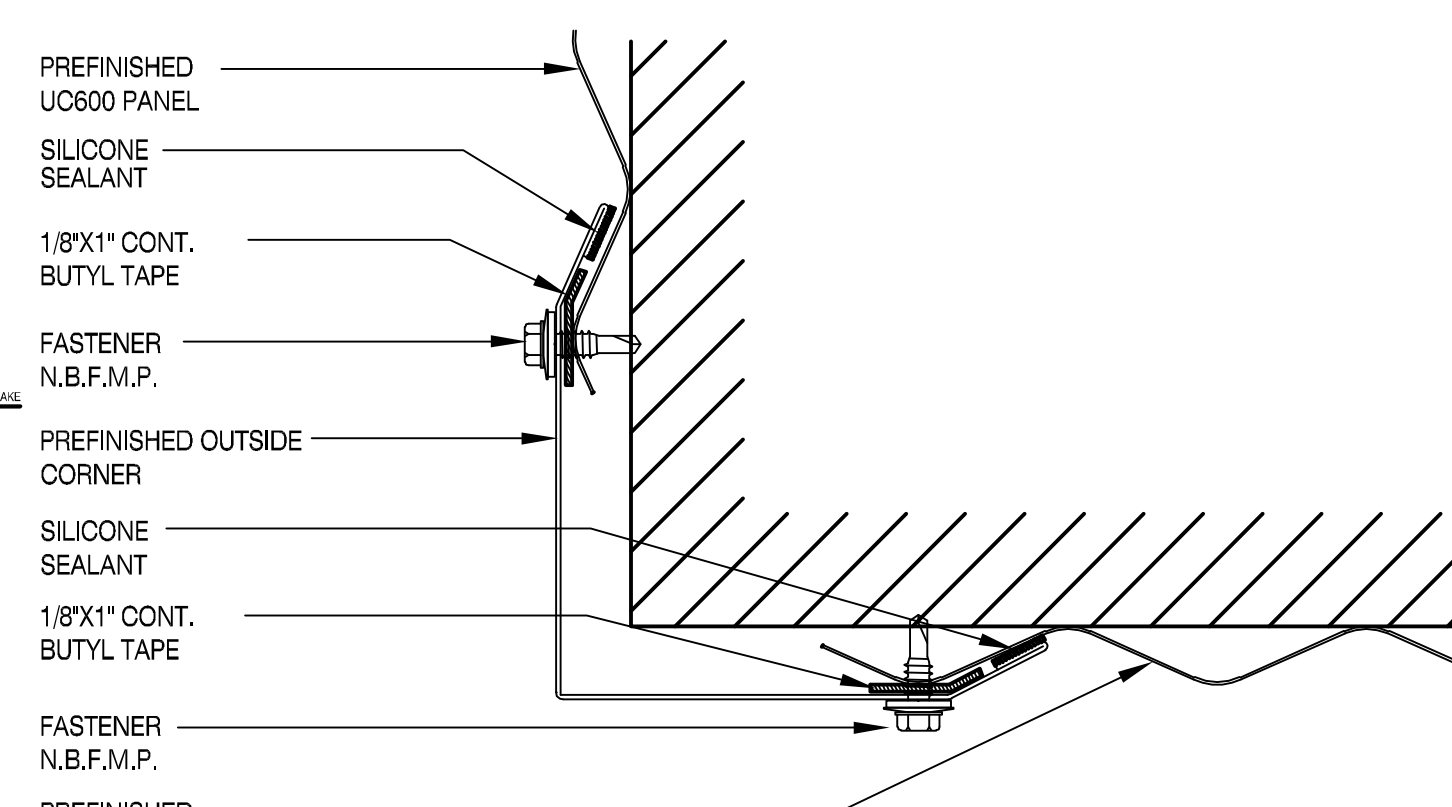
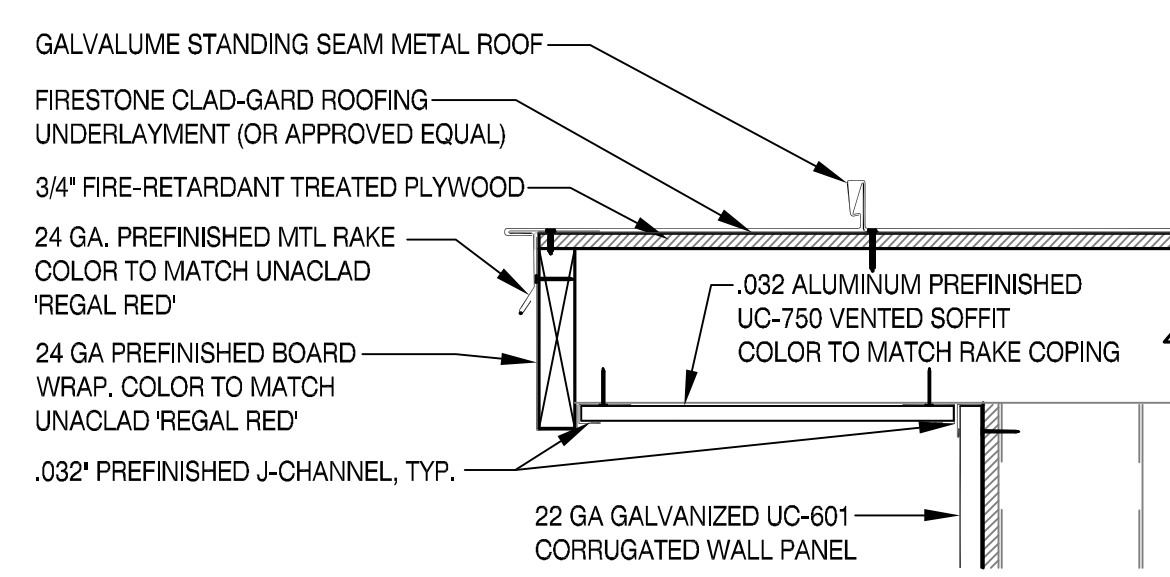
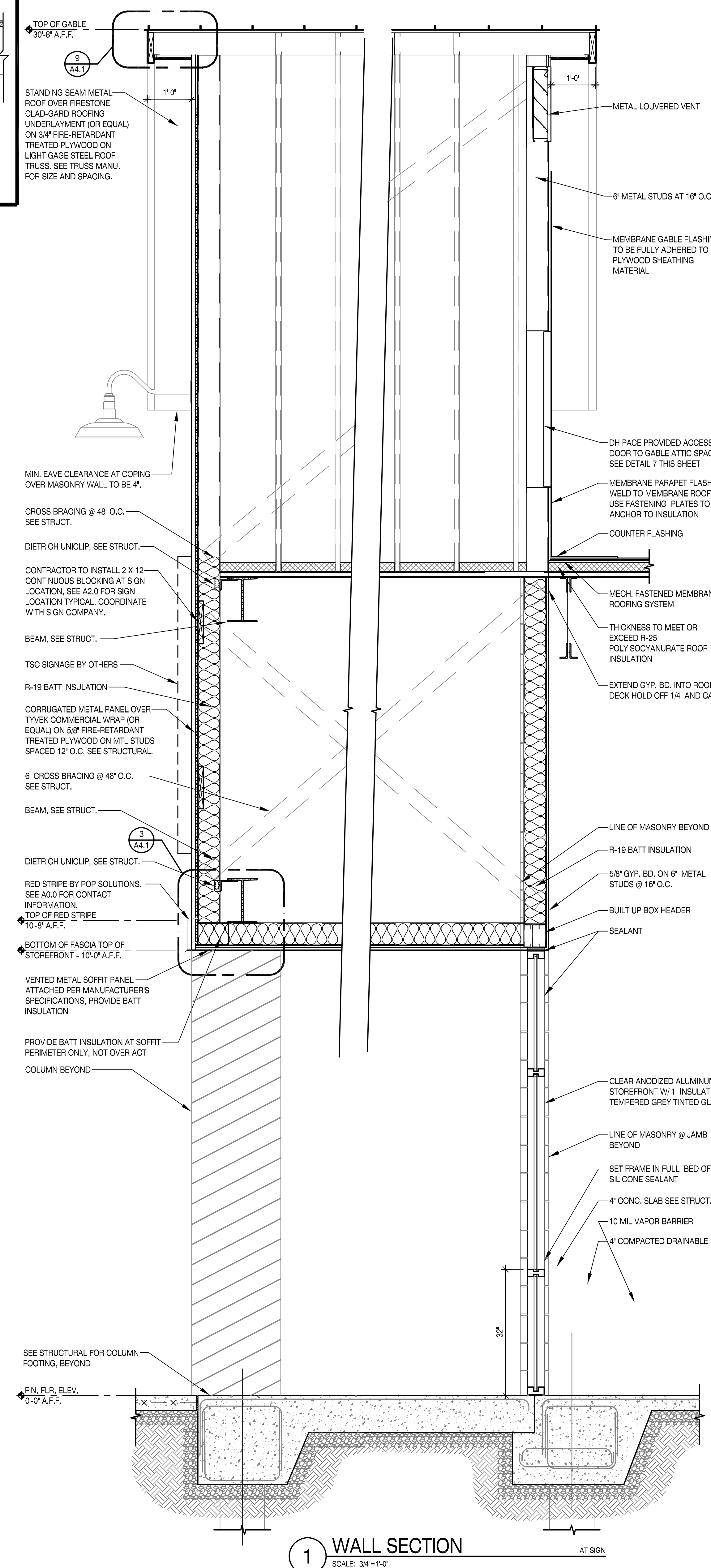
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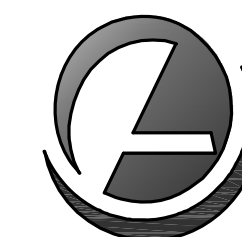
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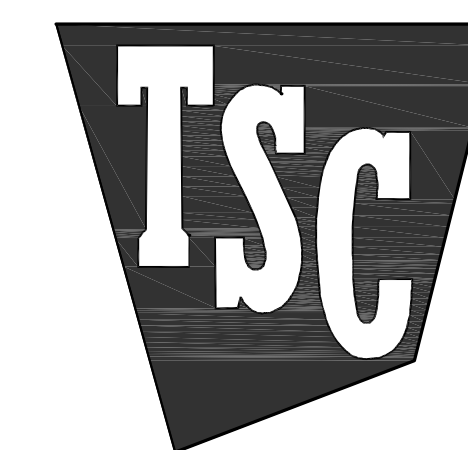




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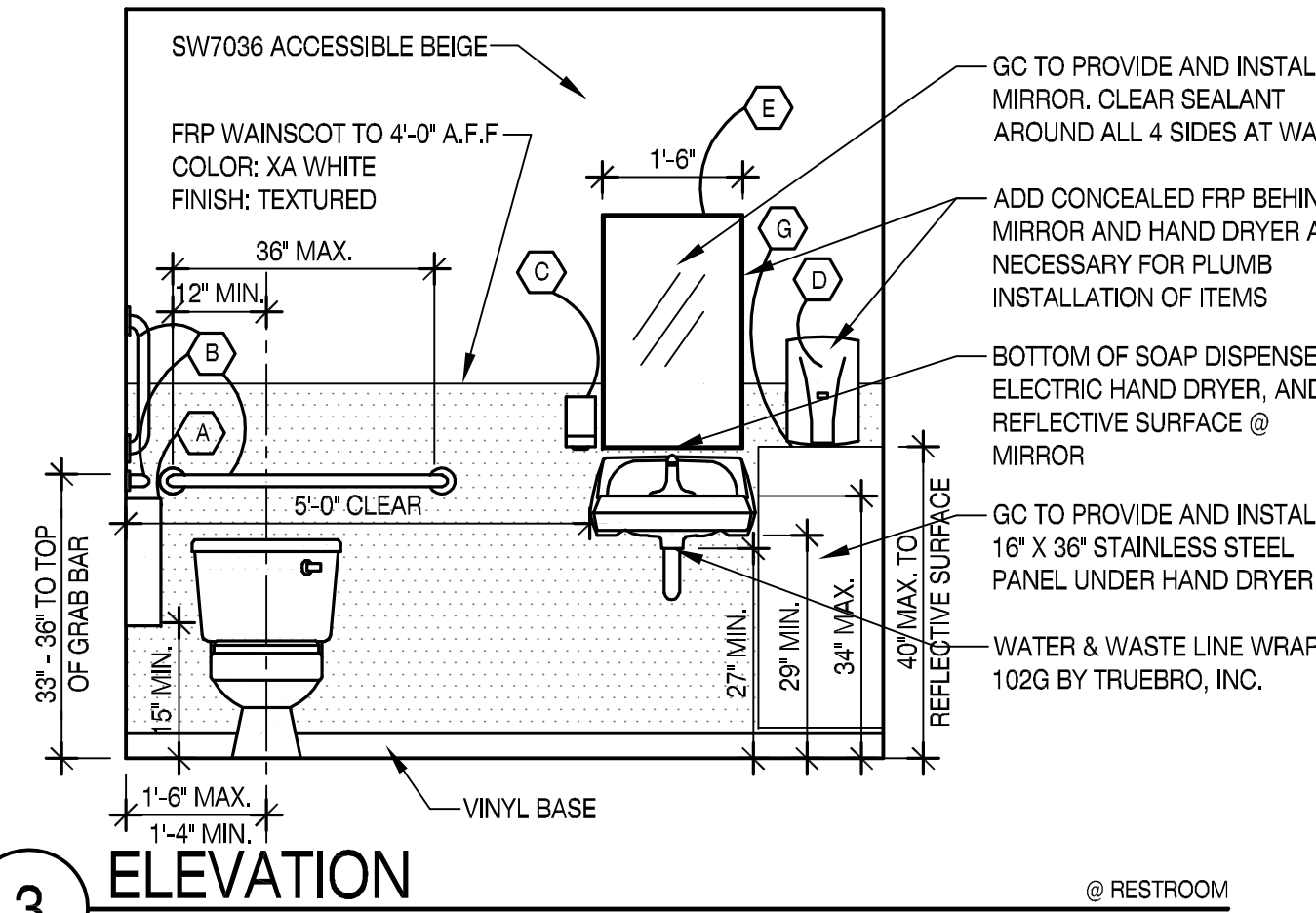
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## TOILET ACCESSORIES SCHEDULE

	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
E	1/4" POLISHED PLATE GLASS MIRROR, 18" X 36"			40" TO BOTTOM OF UNIT
F	PAPER TOWEL DISPENSER	F.B.O., I.B.C.		40" MAX. TO CONTROL
G	STAINLESS STEEL WALL PANEL, 16" X 36"			40" MAX. TO TOP

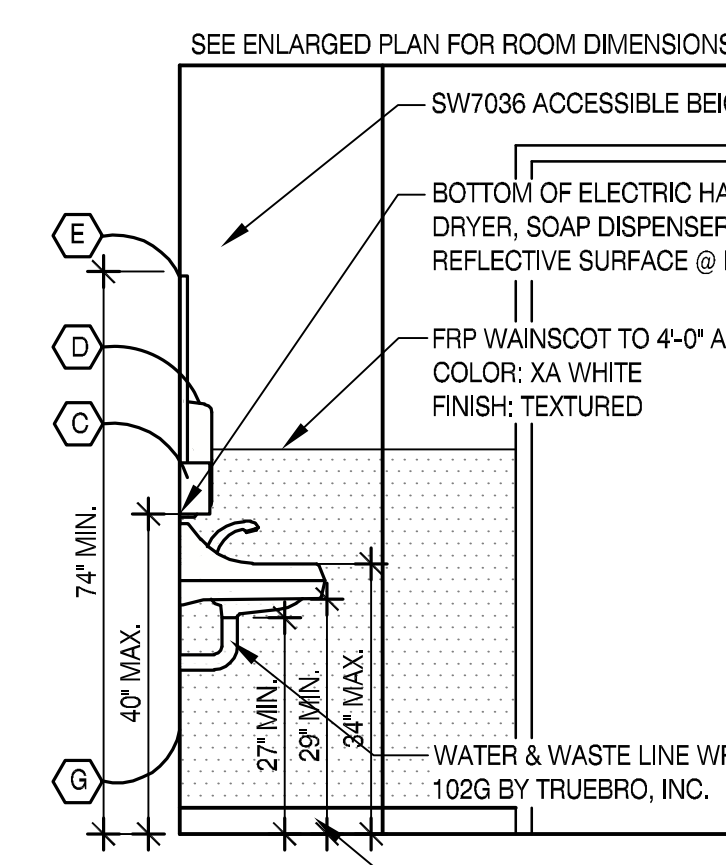
- NOTE:
- ALL HAND DRYERS, MIRRORS, STAINLESS STEEL WALL PANEL, AND GRAB BARS TO BE PROVIDED AND INSTALLED BY GC. TSC IS NOT RESPONSIBLE.
  - F.B.O., I.B.C. (FURNISHED BY OWNER; INSTALLED BY CONTRACTOR)
  - FLUSH CONTROL SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET PER COANSI 117.1 SECTION 604.6.
  - 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.

SEE ENLARGED PLAN FOR ROOM DIMENSIONS



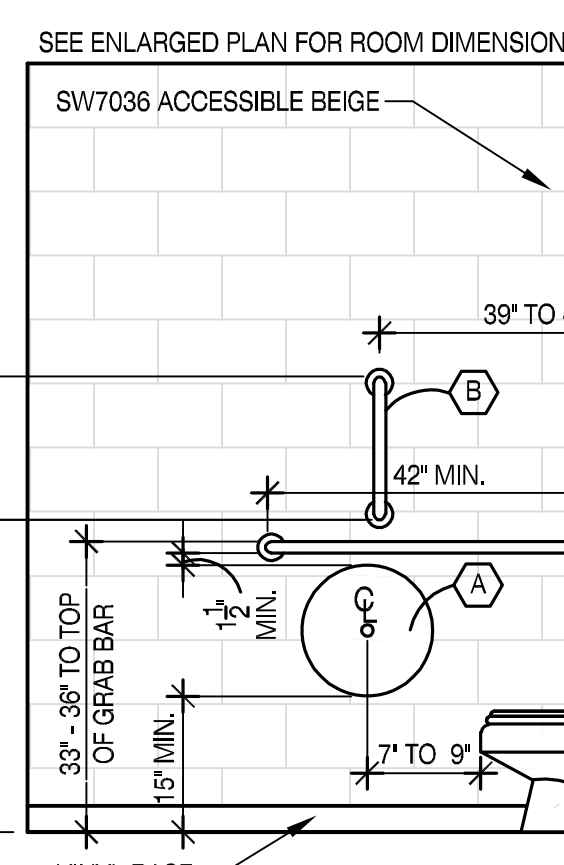
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4 ELEVATION

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2 ELEVATION

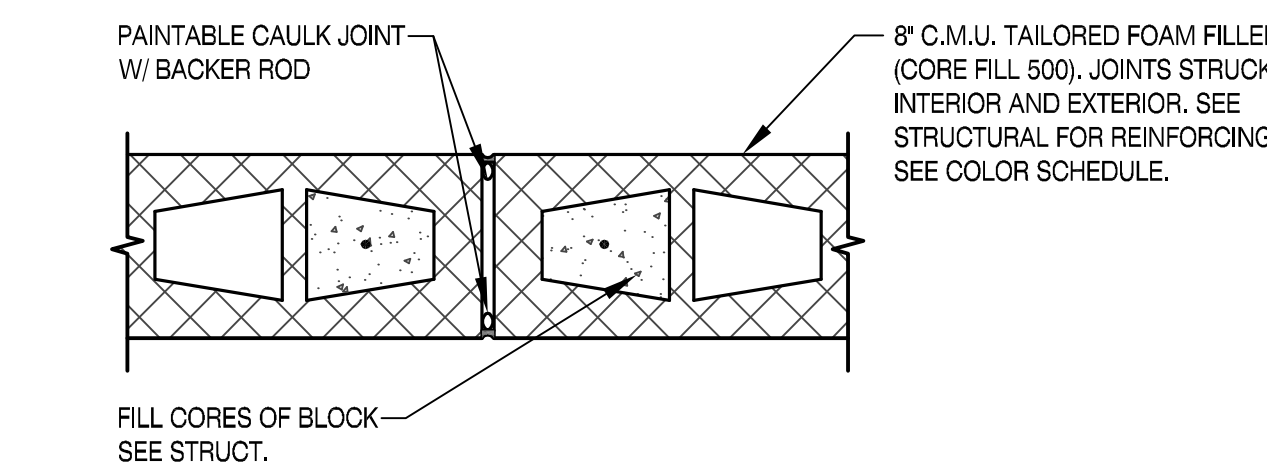
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### WALL THICKNESS

- 5/8" TYPE 'X' GYP. BD. BOTH SIDES OF 3-5/8" METAL STUDS
- 5/8" TYPE 'X' GYP. BD. ON ROOM SIDE AND 1/2" F.R.T. PLYWOOD IN STOCKROOM ON 3-5/8" METAL STUDS
- 1/2" F.R. PLYWOOD BOTH SIDES OF 3-5/8" METAL STUDS
- 5/8" TYPE 'X' GYP. BD. BOTH SIDES OF 6" METAL STUDS

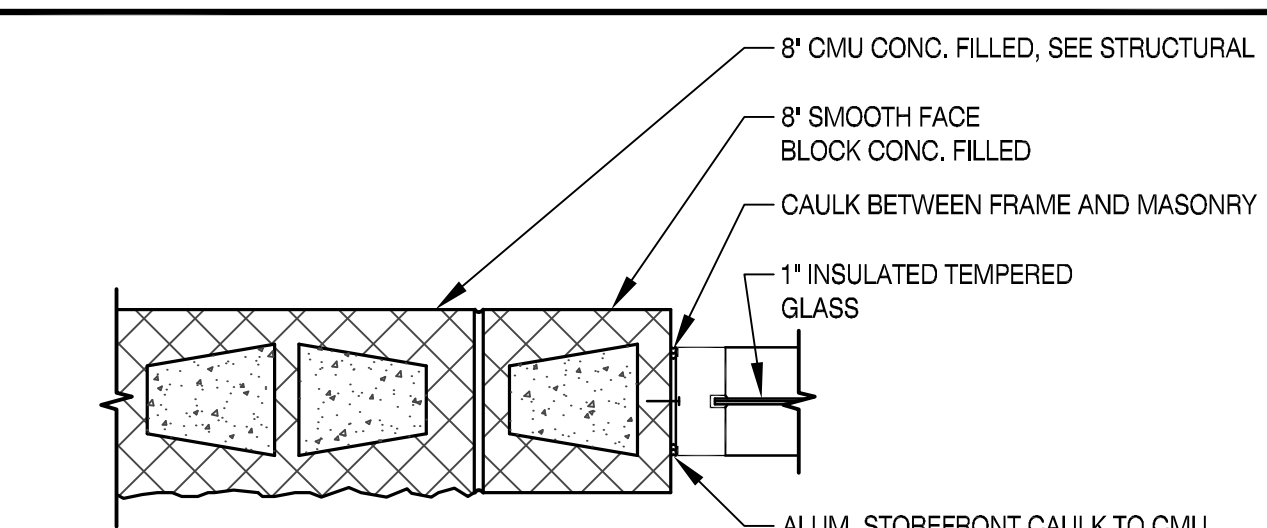
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9 DETAIL

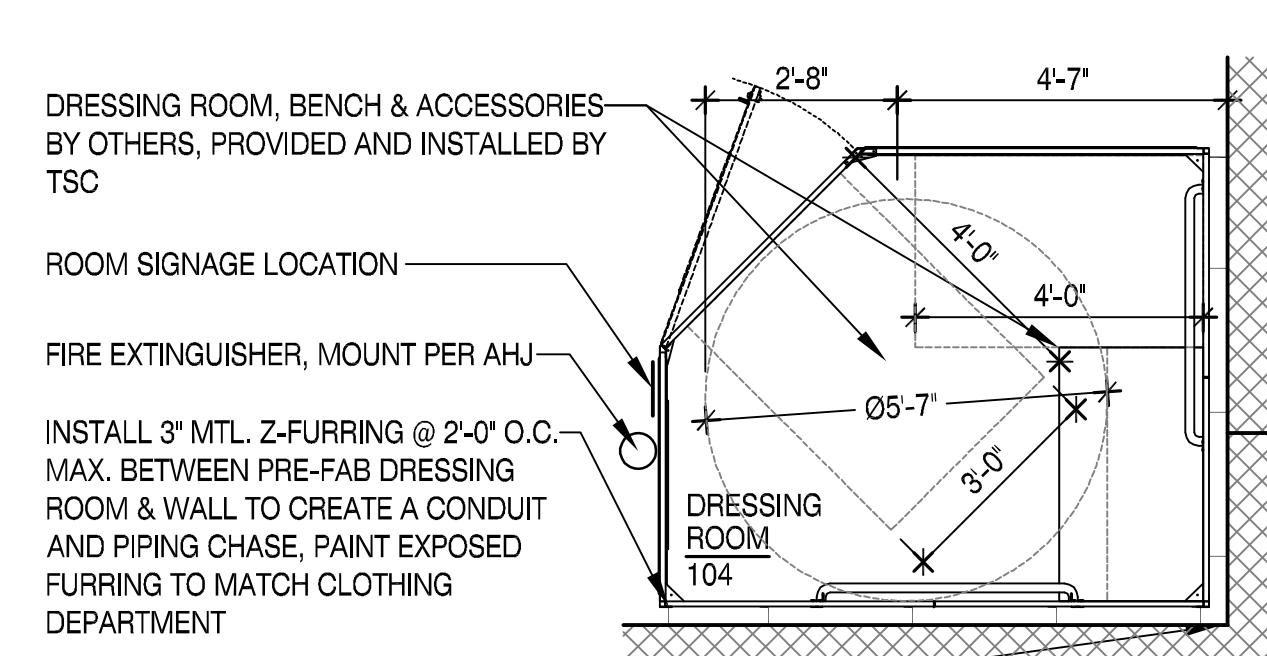
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8 DETAIL

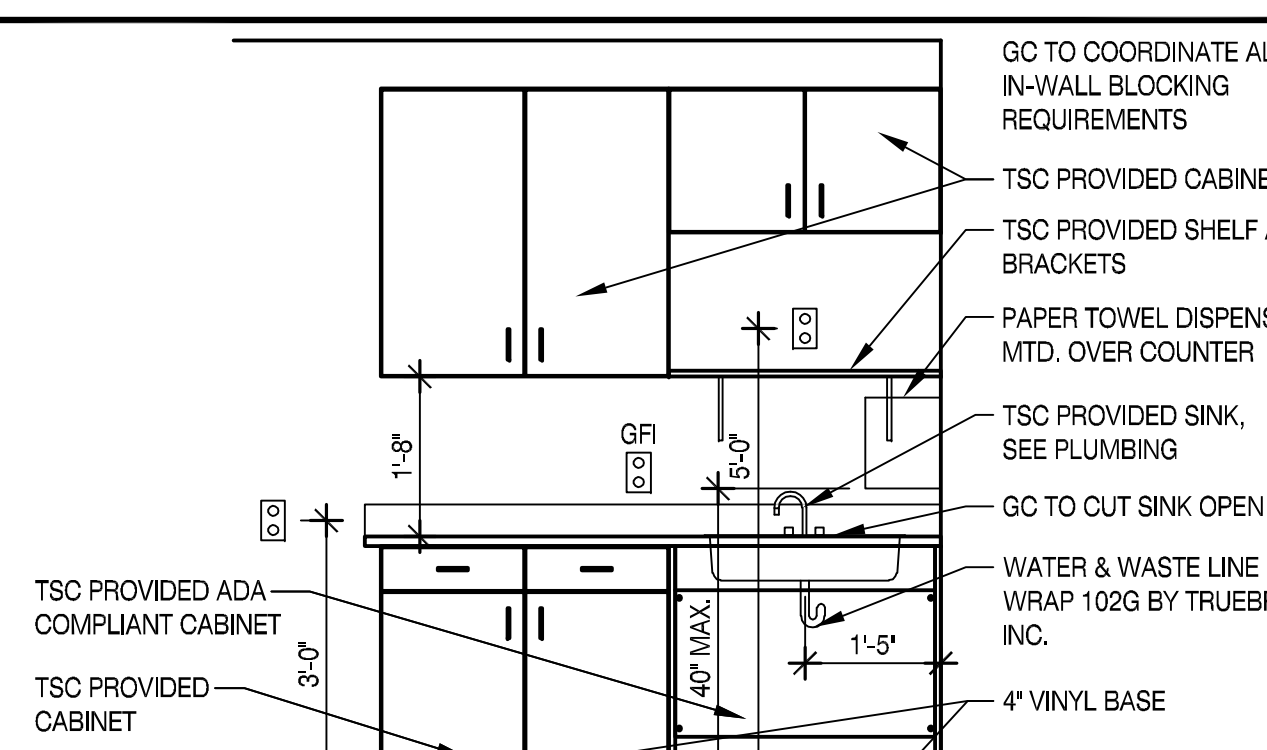
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NOTE: PRE-FABRICATED DRESSING ROOM AND BENCH TO BE INSTALLED @ FRONT OF BUILDING ON SIDE OPPOSITE OF FOD.



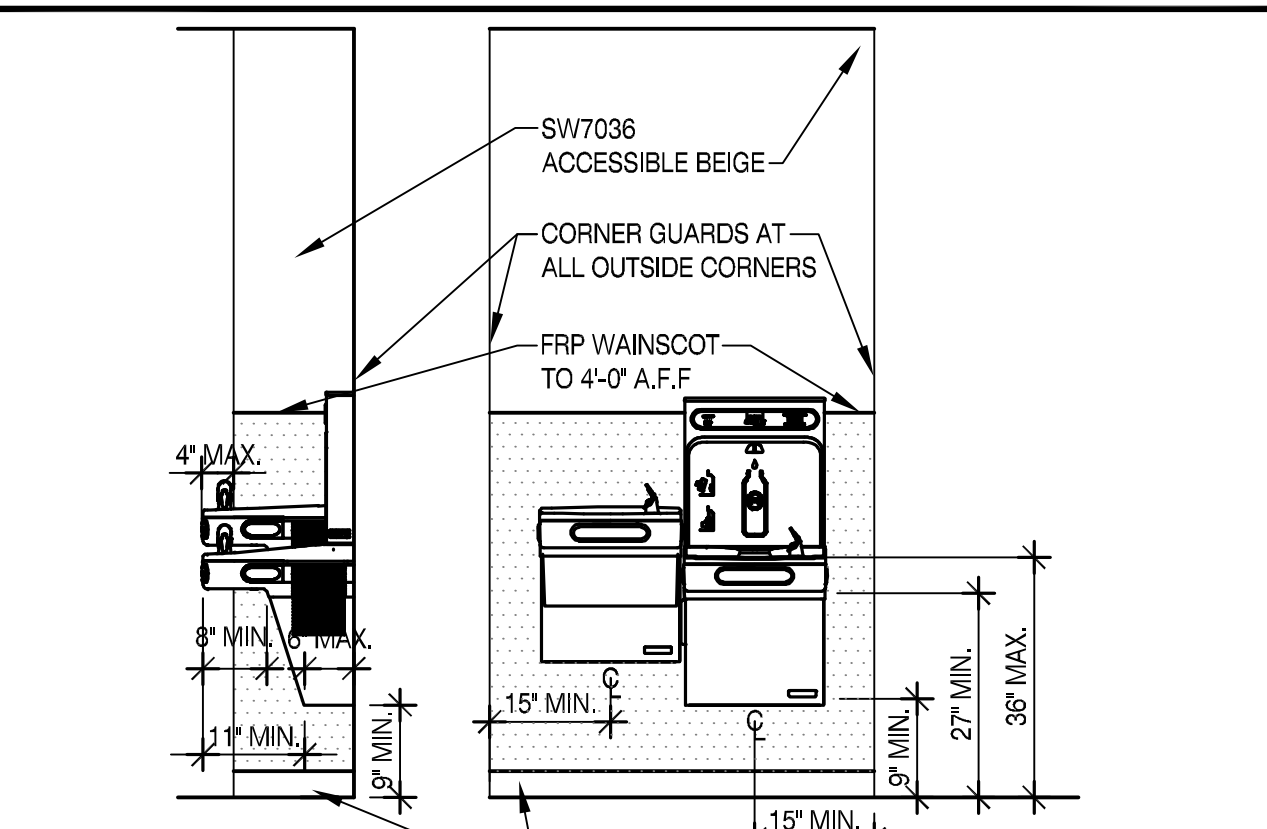
7 ENLARGED DRESSING ROOM PLAN

SCALE: 3/8" = 1'-0"



6 ELEVATION

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

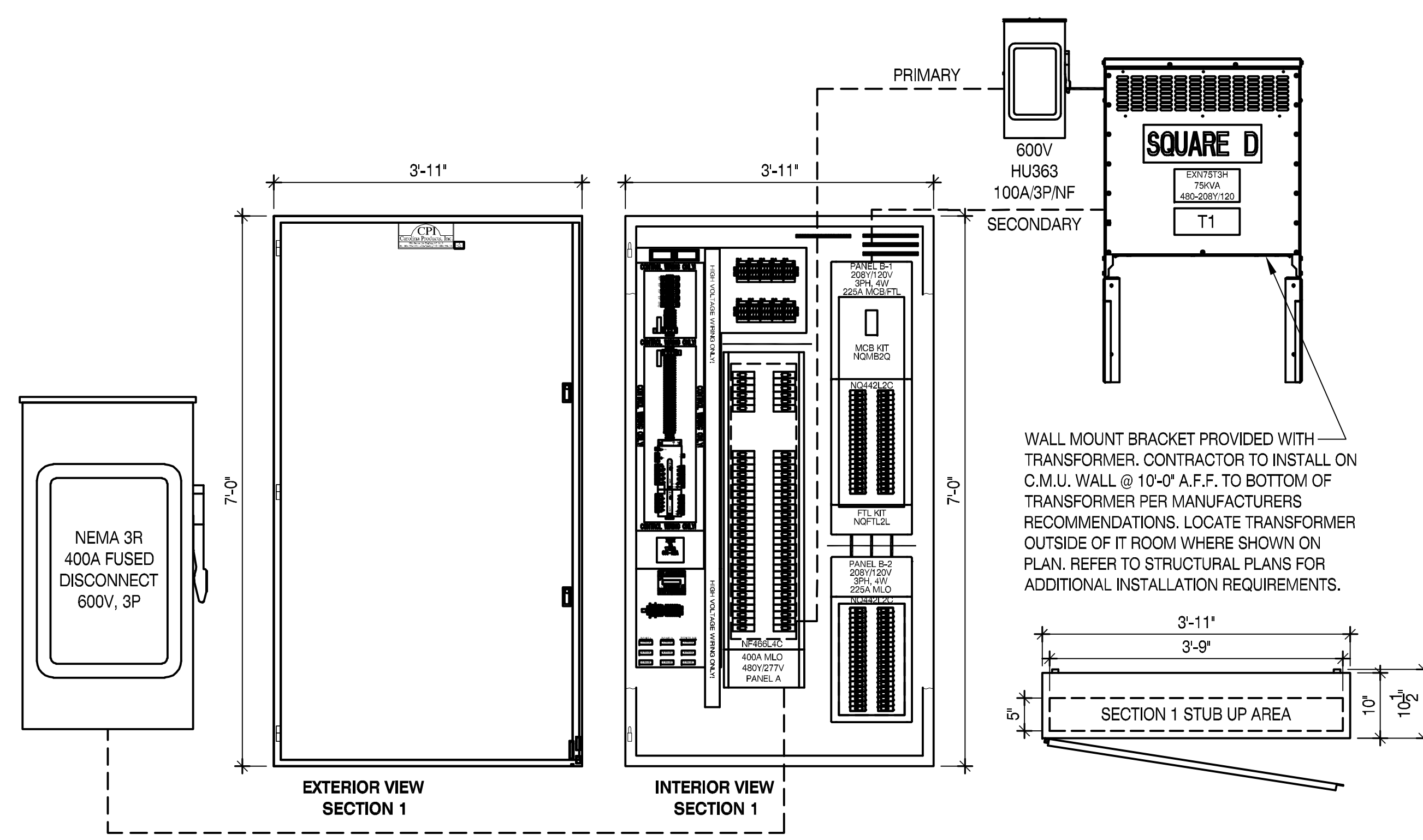
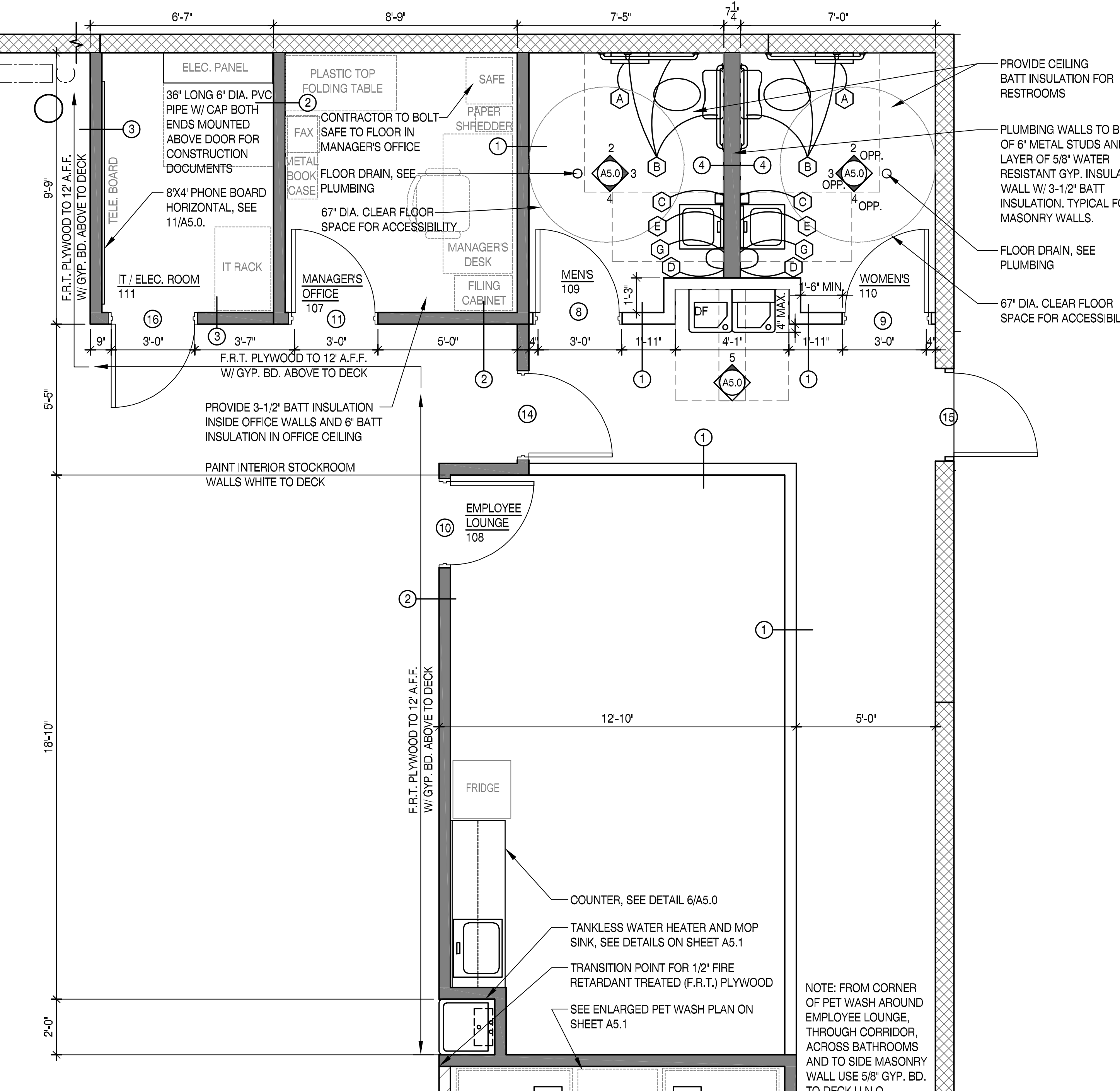


5 ELEVATION

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

1 ENLARGED CORE PLAN

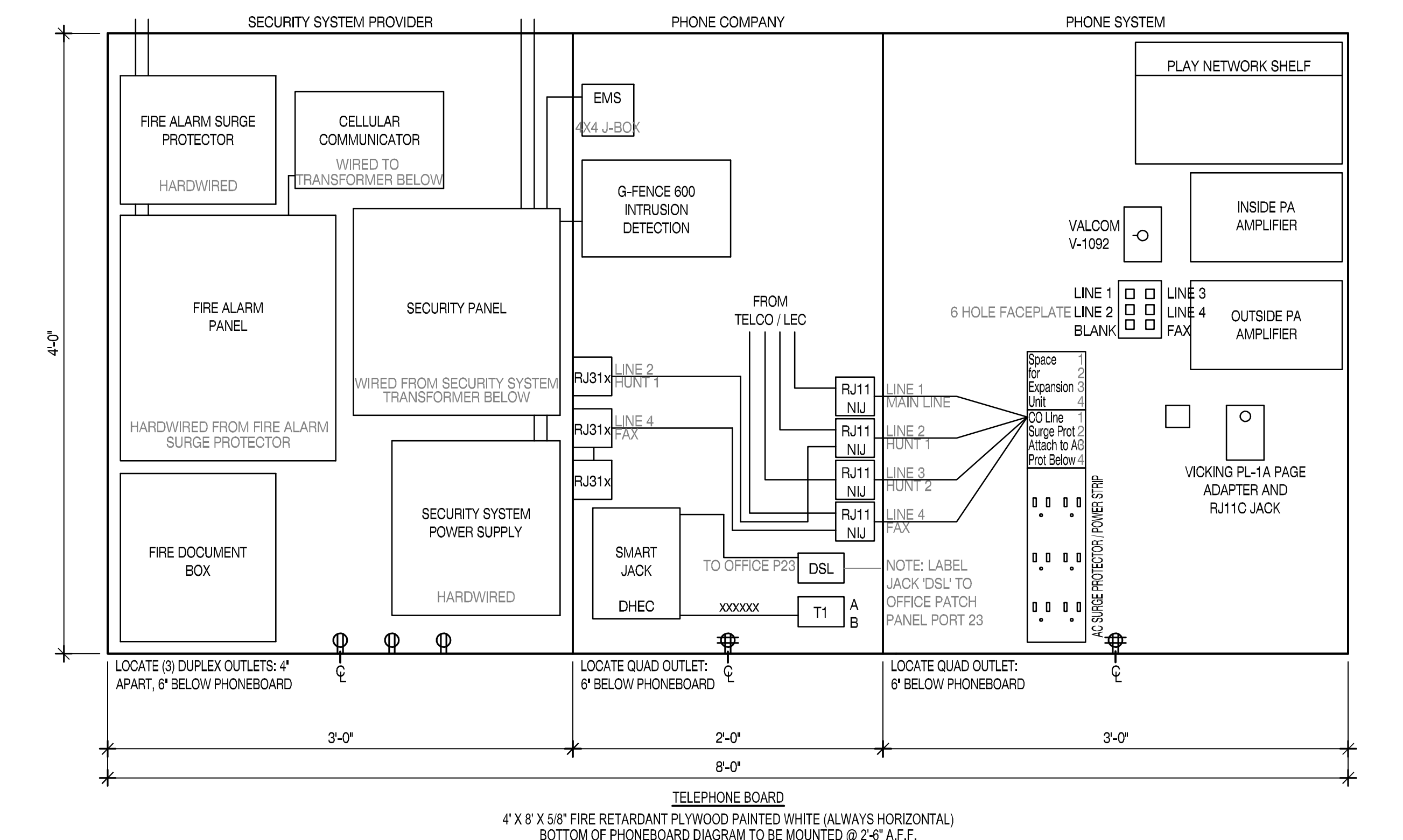
SCALE: 3/8" = 1'-0"



12 PLAN & ELEVATION

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

@ ELECTRICAL PANEL



11 ELEVATION

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

@ PHONE BOARD





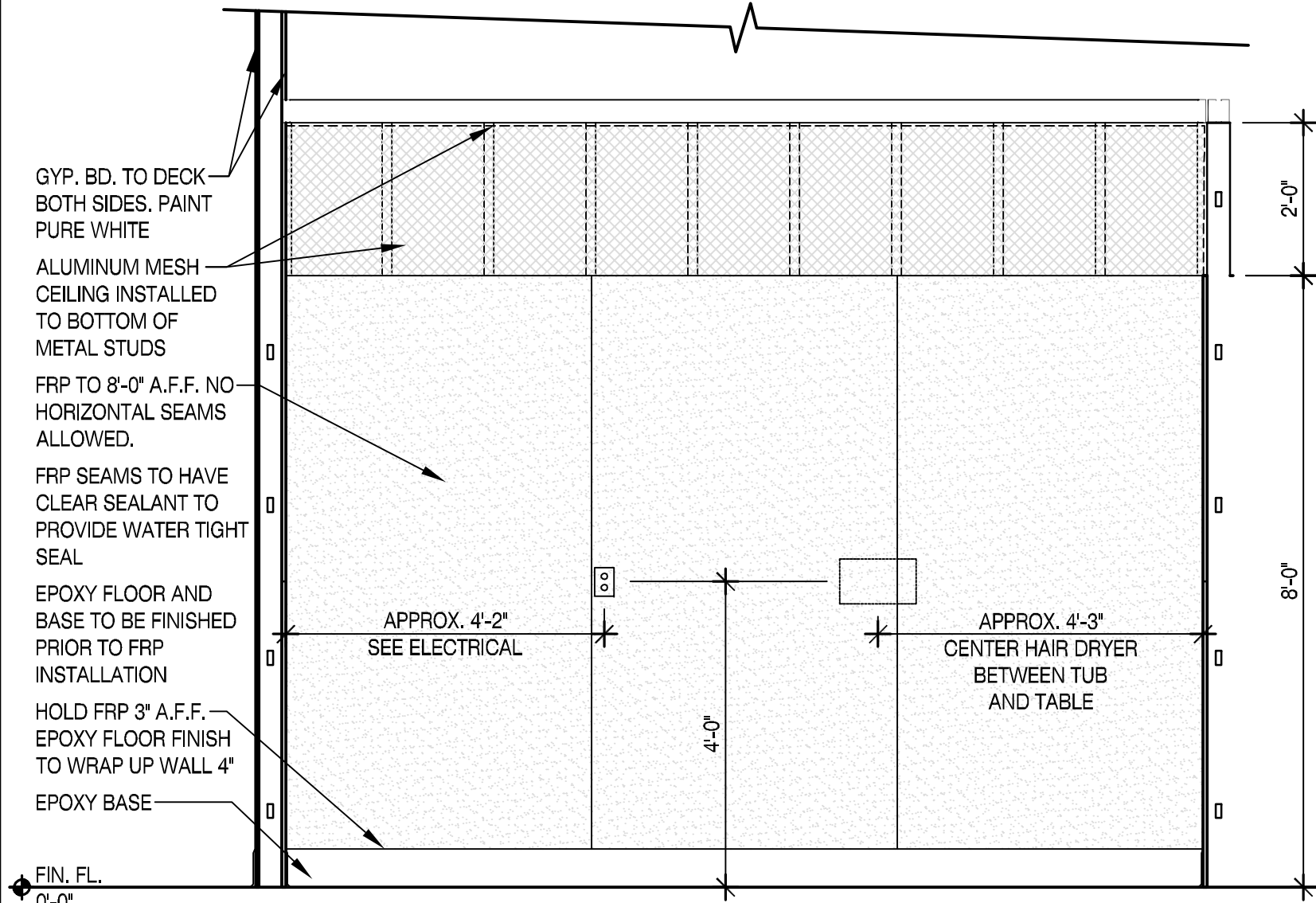
16 PERSPECTIVE  
SCALE: NO SCALE  
PROTOTYPICAL PET WASH

15 NOT USED

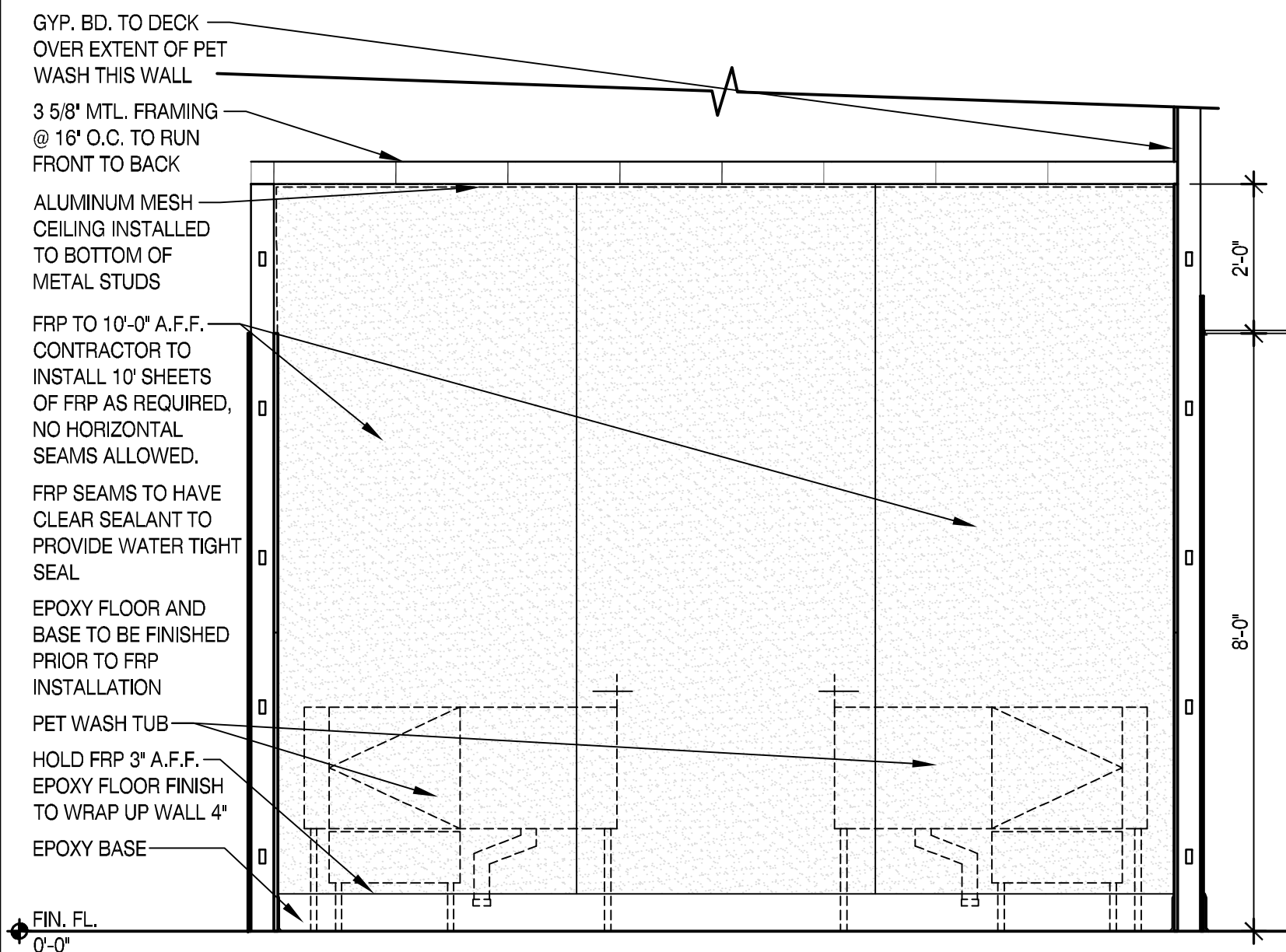
14 NOT USED  
SCALE: NO SCALE

13 NOT USED  
SCALE: NO SCALE

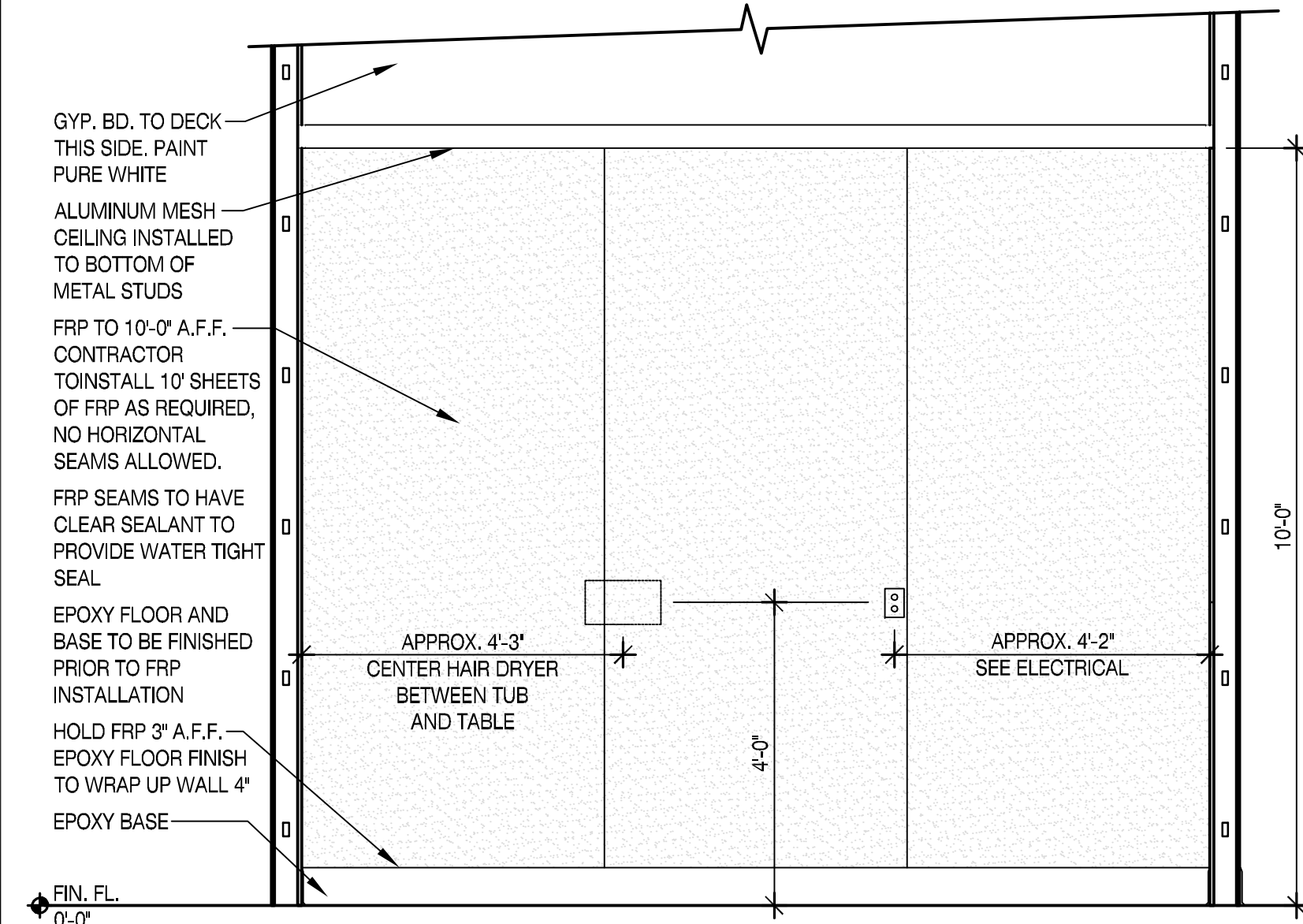
12 DETAIL  
SCALE: 6" = 1'-0"  
@ SCREEN WALL/CEILING CONNECTION



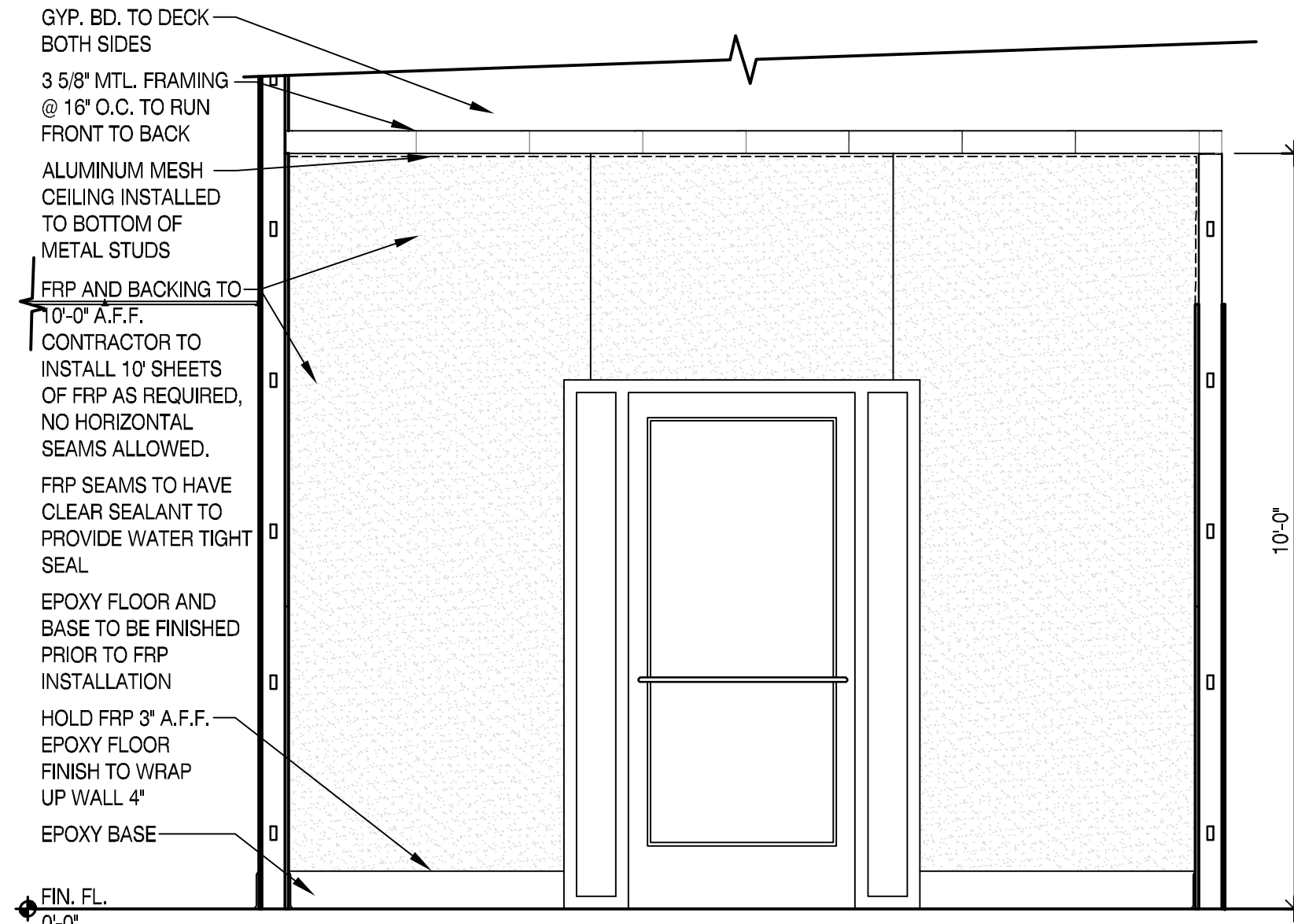
11 ELEVATION  
SCALE: 1/2" = 1'-0"  
@ INTERIOR PET WASH LEFT SIDE



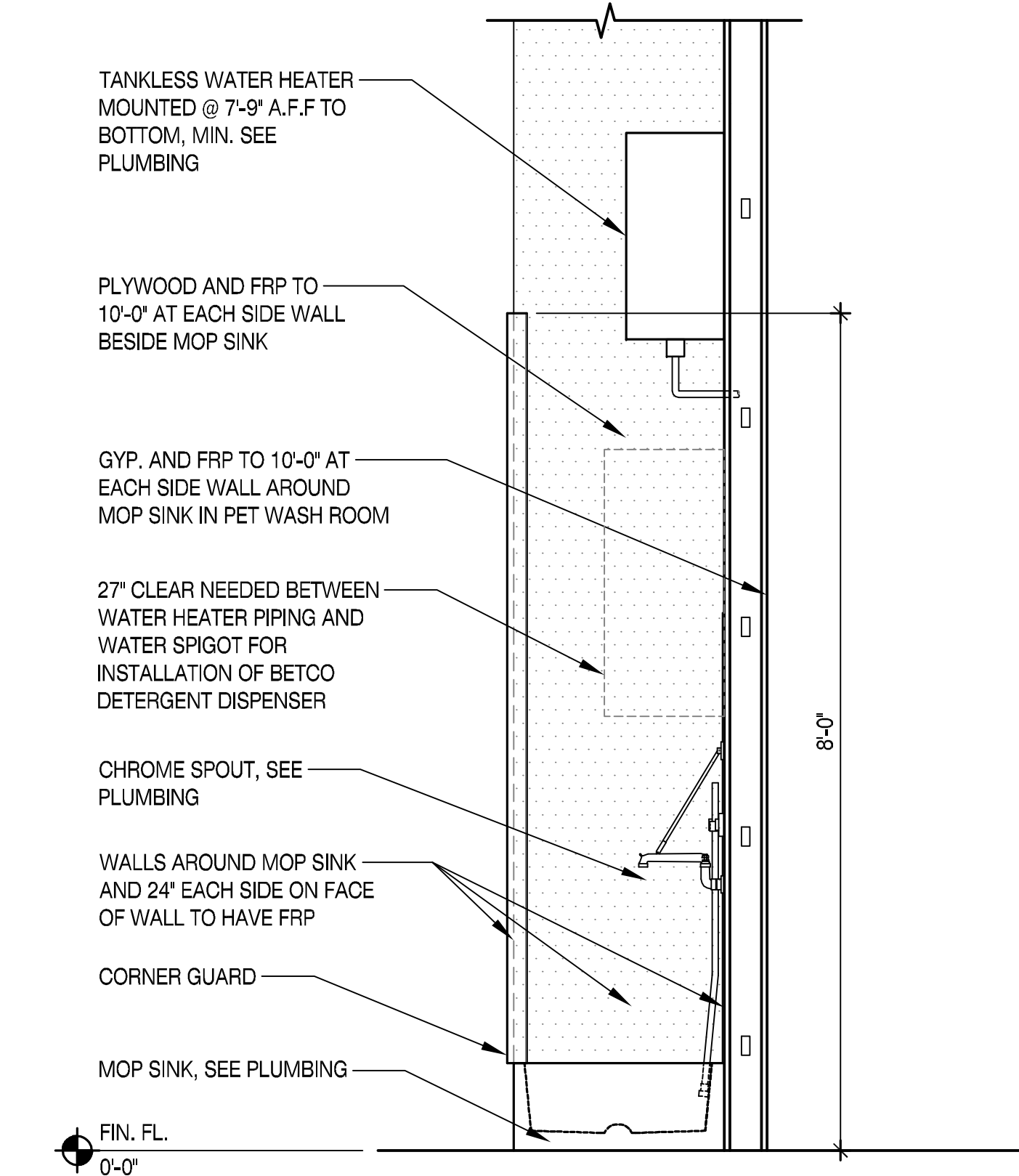
10 ELEVATION  
SCALE: 1/2" = 1'-0"  
@ INTERIOR PET WASH REAR WALL



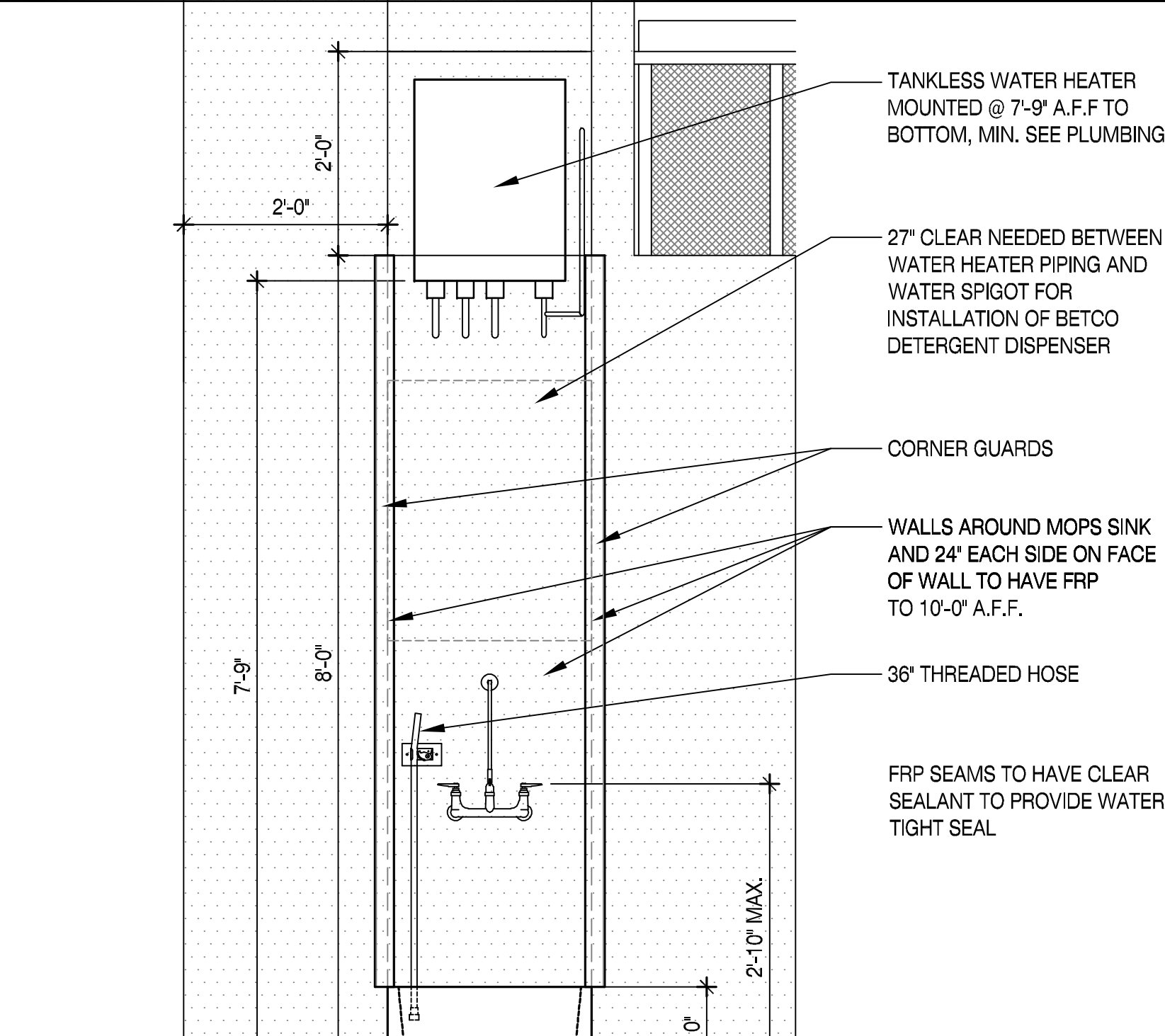
9 ELEVATION  
SCALE: 1/2" = 1'-0"  
@ INTERIOR PET WASH RIGHT SIDE



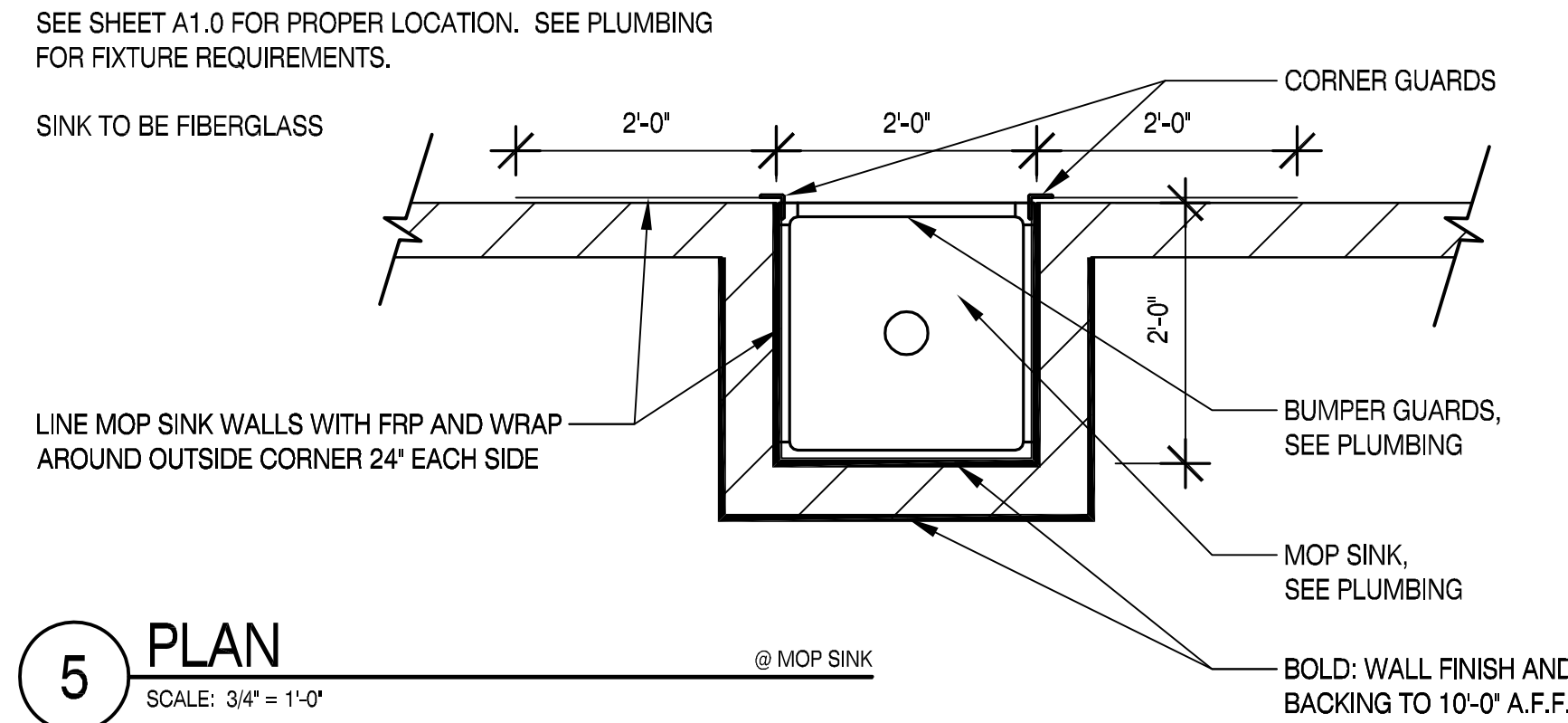
8 ELEVATION  
SCALE: 1/2" = 1'-0"  
@ INTERIOR PET WASH FRONT WALL



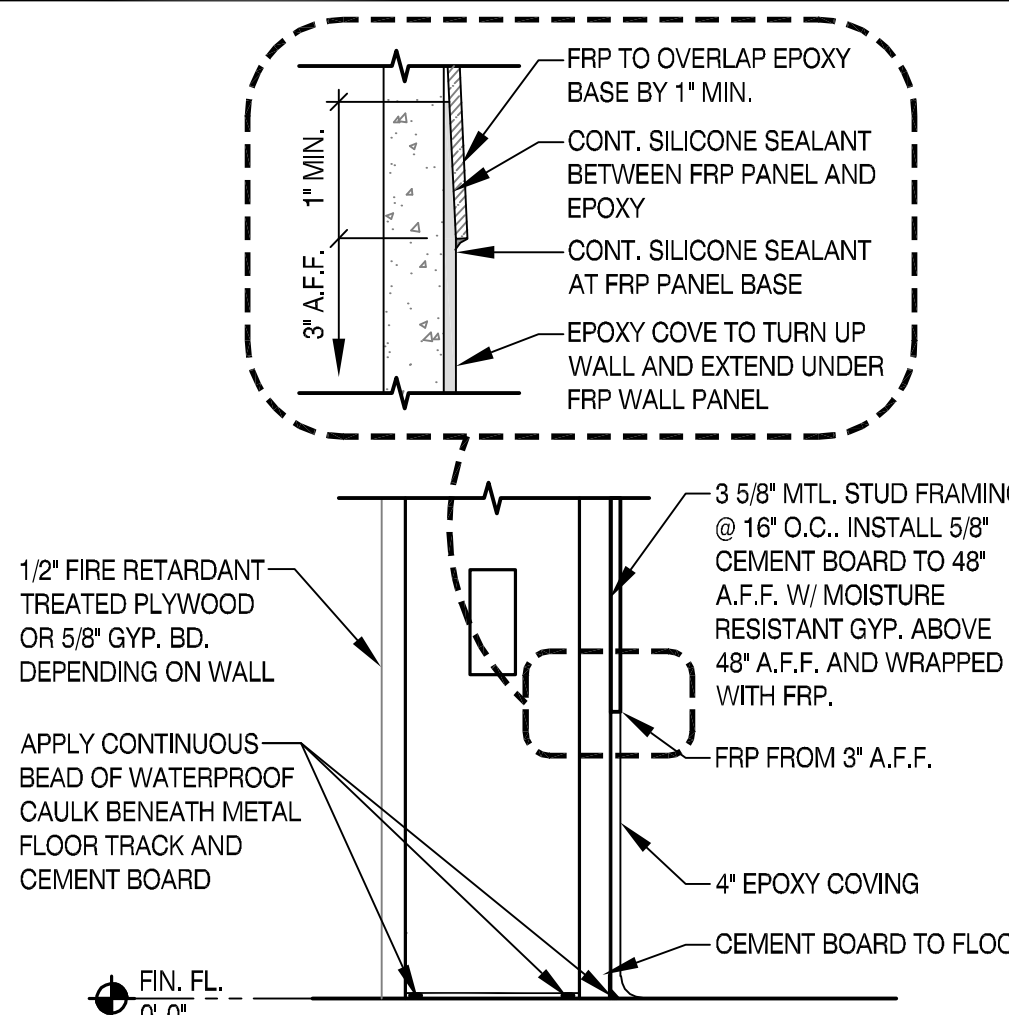
7 SECTION  
SCALE: 3/4" = 1'-0"  
@ MOP SINK



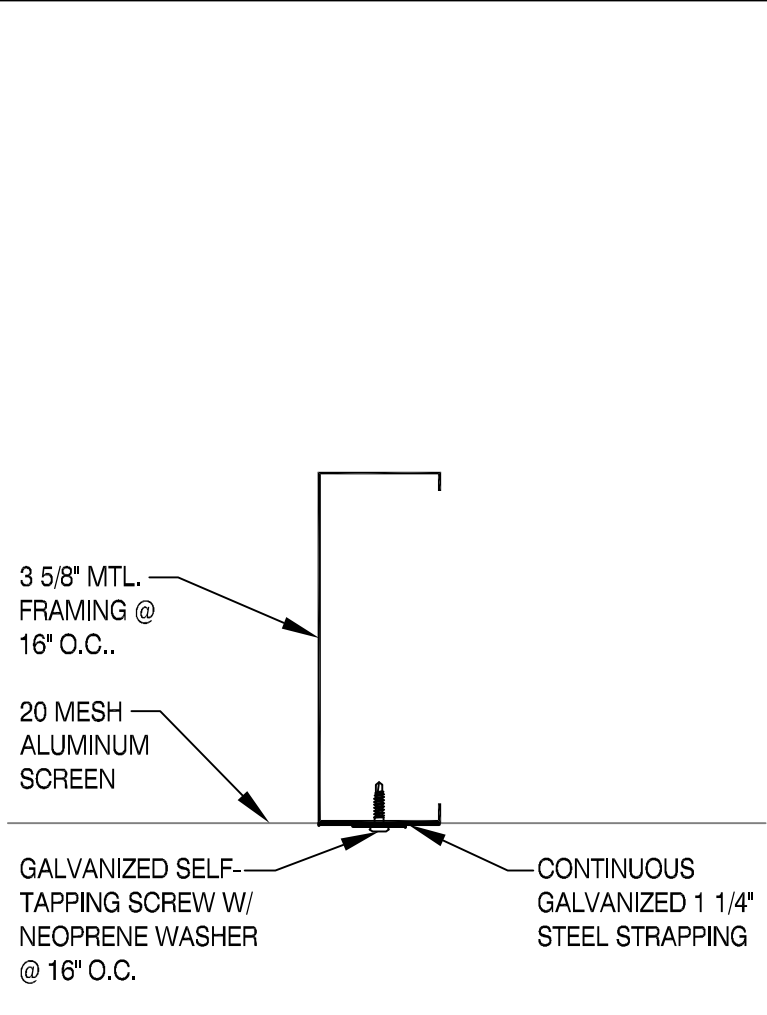
6 ELEVATION  
SCALE: 3/4" = 1'-0"  
@ MOP SINK



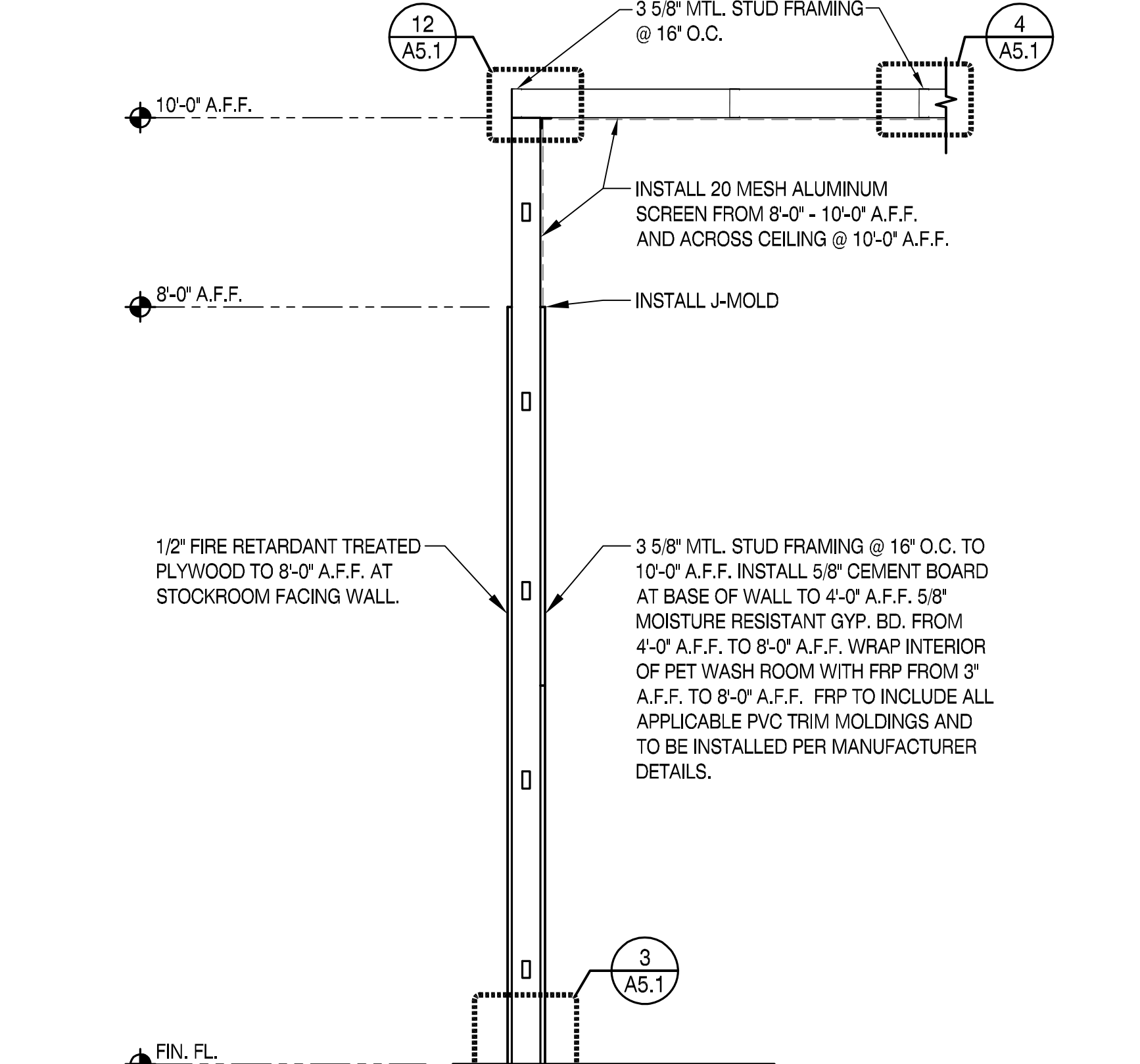
5 PLAN  
SCALE: 3/4" = 1'-0"  
@ MOP SINK



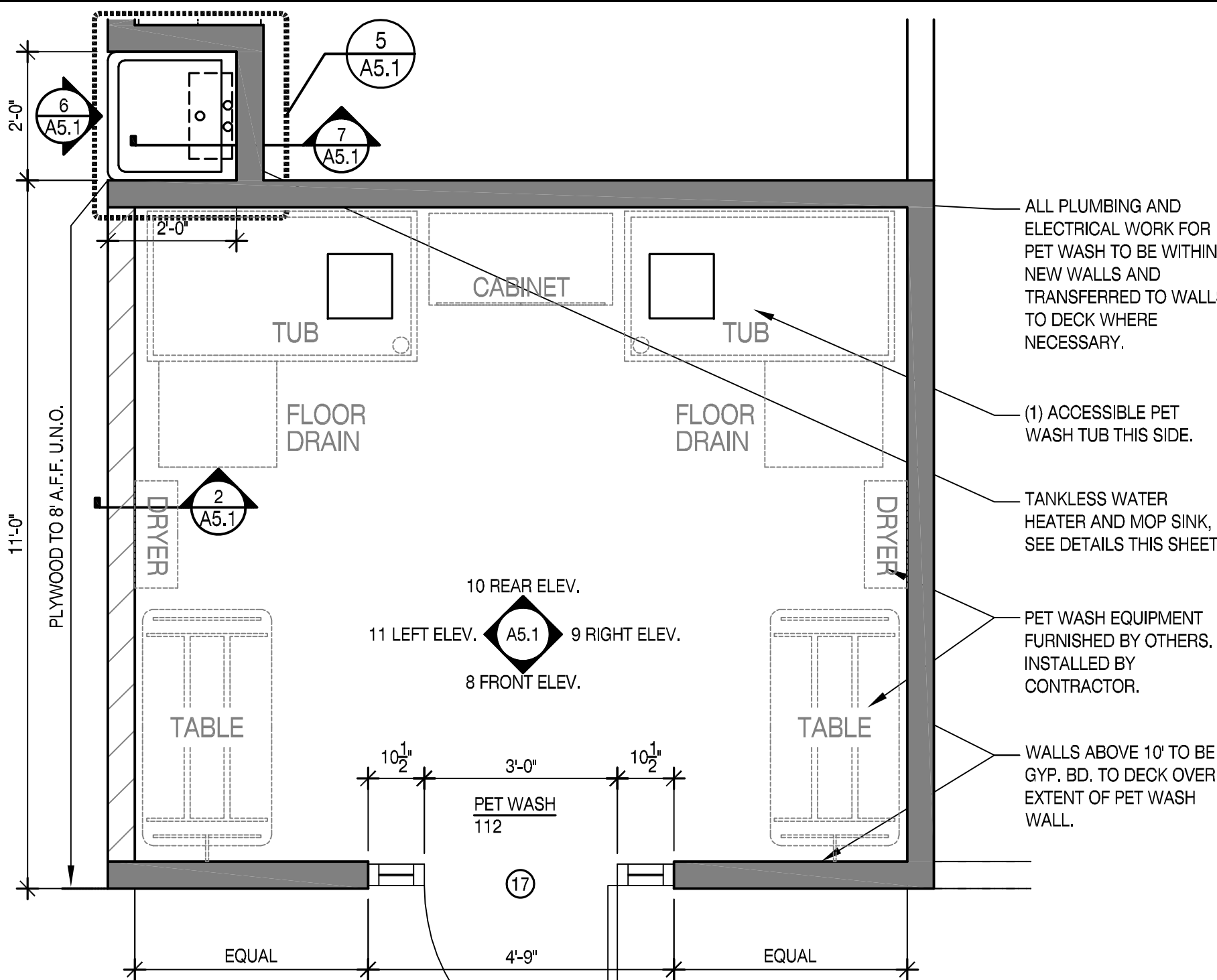
3 DETAIL  
SCALE: 3" = 1'-0"  
@ WALL BASE



4 DETAIL  
SCALE: 6" = 1'-0"  
@ SCREEN ATTACHMENT



2 SECTION  
SCALE: 3/4" = 1'-0"  
@ PET WASH ROOM WALL



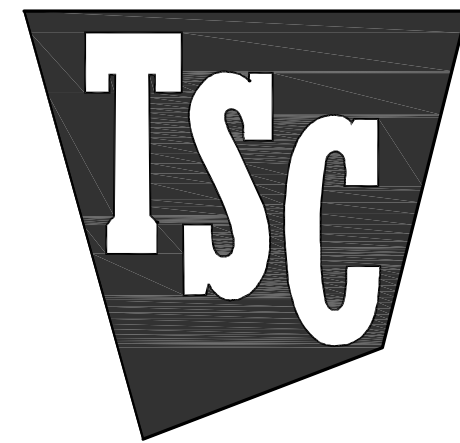
1 PLAN  
SCALE: 1/2" = 1'-0"  
@ PET WASH ROOM



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Architecture  
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TRACTOR SUPPLY COMPANY

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LOUISIANA

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Job Number: 2485

Date: 01.20.2025

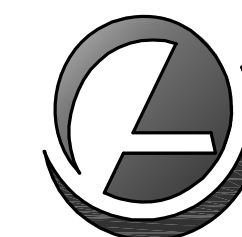
Revisions:

Revisions:

Revisions:  
PET WASH PLAN, ELEVATIONS, & DETAILS

Sheet Number: A5.1

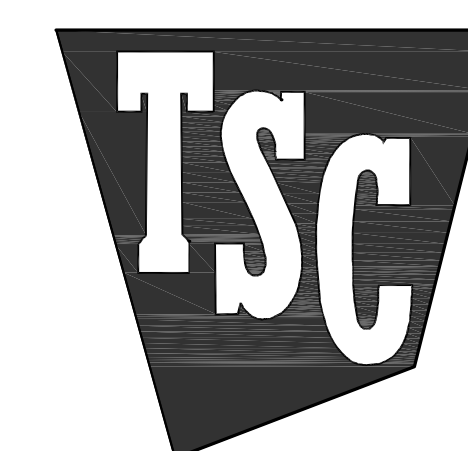




OXFORD  
ARCHITECTURE

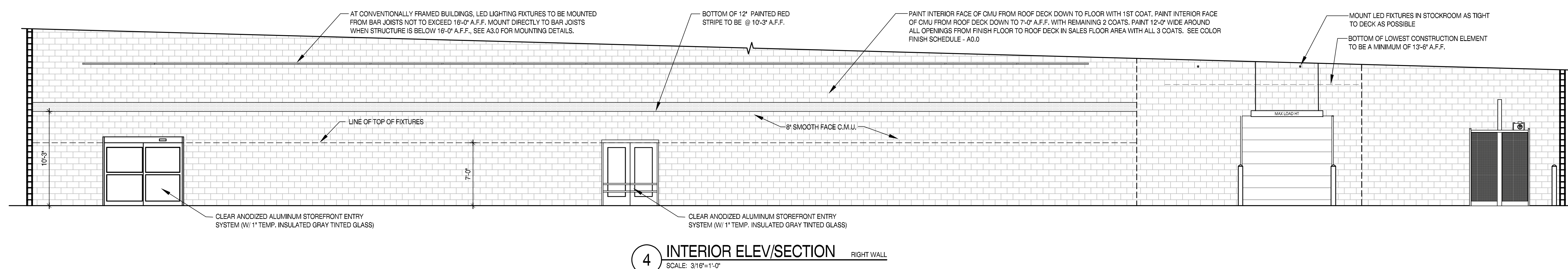
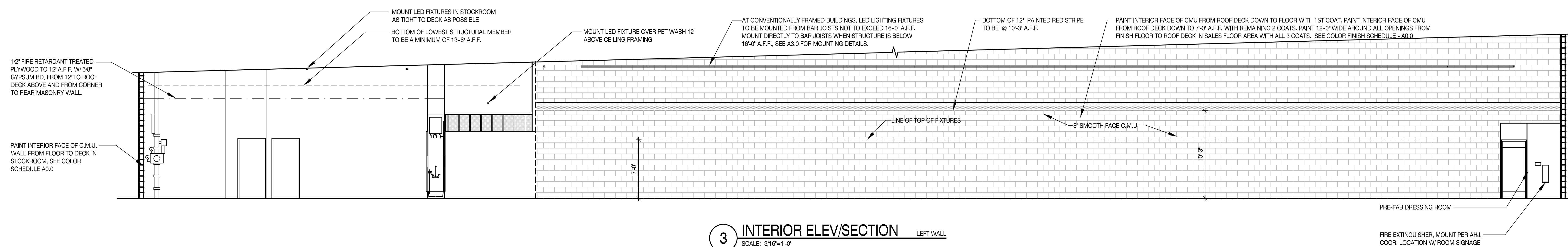
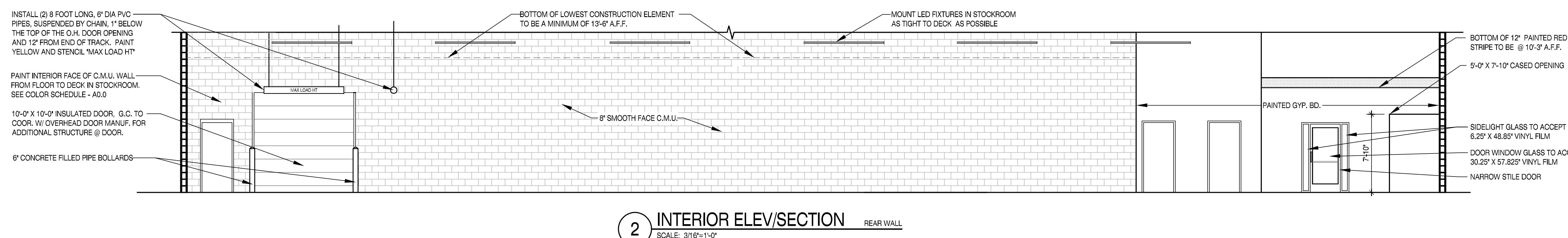
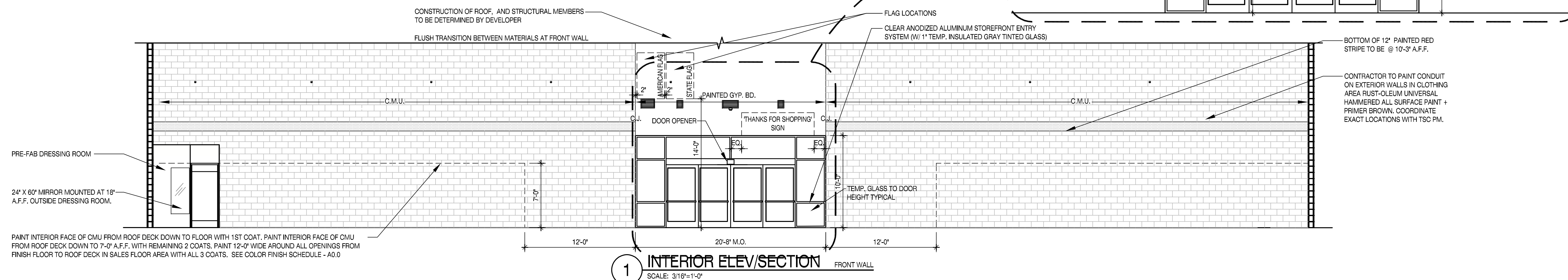
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Job Number: 2485

Date: 01.20.2025

Revisions:

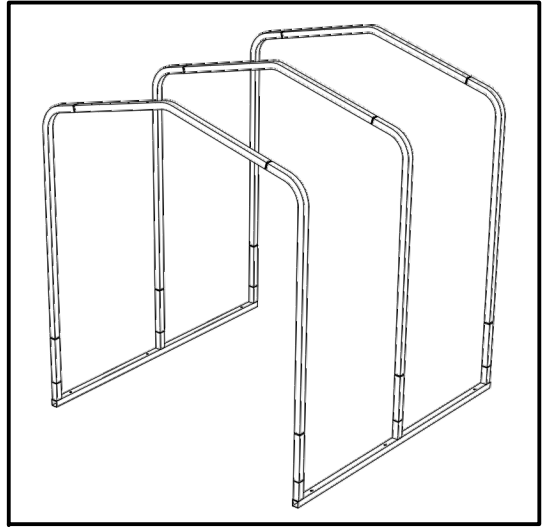
Revisions:

Revisions:

INTERIOR ELEVATIONS

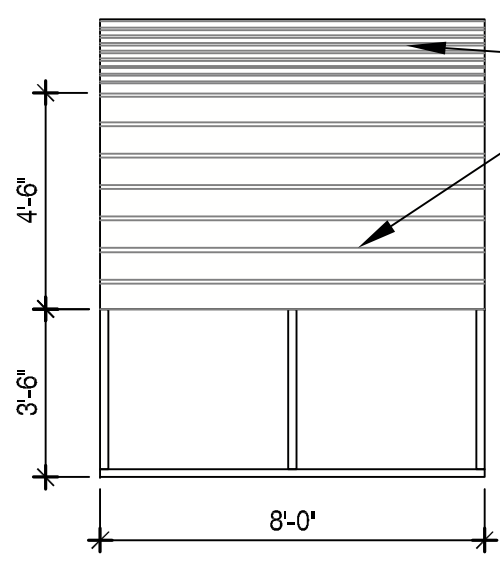
Sheet Number: A5.2





12 PROPANE CANOPY FRAME  
SCALE: NOT TO SCALE

ISOMETRIC



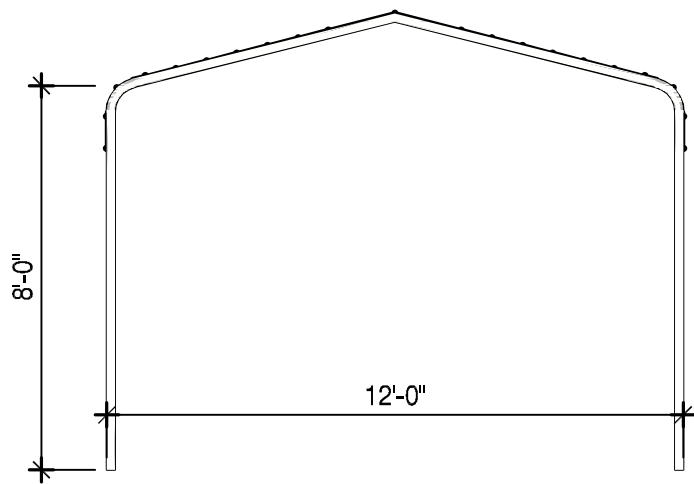
VERSATUBE METAL 12" R PANEL ROOF  
W/ STONE FINISH OR EQUAL.  
CANOPIES MUST INCLUDE SIDE  
PANELS, 3'-6" ABOVE GROUND.

USE PAINTED #12 X 1" SELF-DRILLING  
SCREWS W/ RUBBER WASHERS TO  
FASTEN PANELS TO FRAME. USE (1)  
SCREW 1" ABOVE OR TO ONE SIDE OF  
EACH MAJOR RIB.

CONTRACTOR TO COORDINATE WITH  
MANUFACTURER TO VERIFY SELECTION  
OF CANOPY MODEL BASED ON LOCAL  
CONDITIONS

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

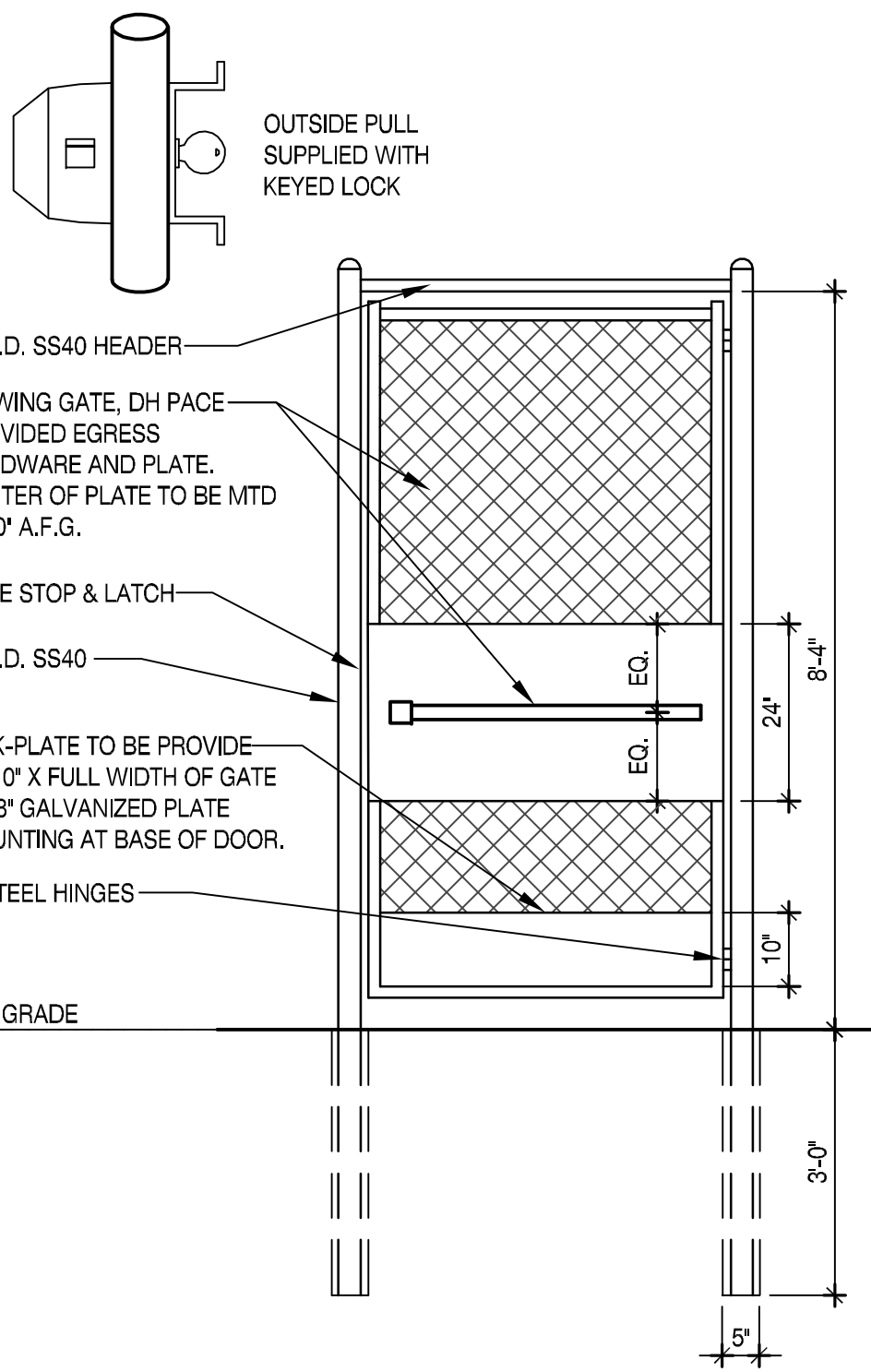
SIDE



NOTE: PROPANE  
CANOPY ROOF  
CANNOT COVER  
ANY PART OF TANK.

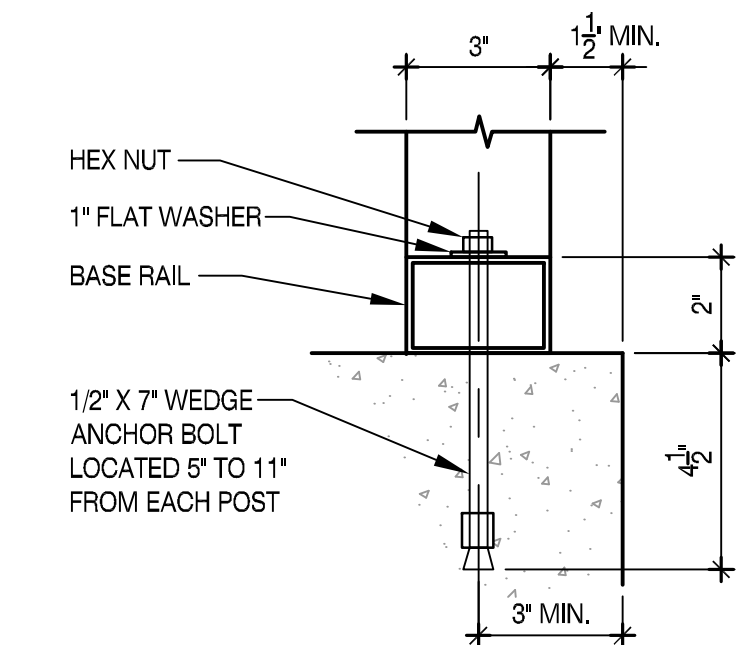
10 PROPANE CANOPY ELEVATION  
SCALE: 1/4" = 1'-0"

FRONT



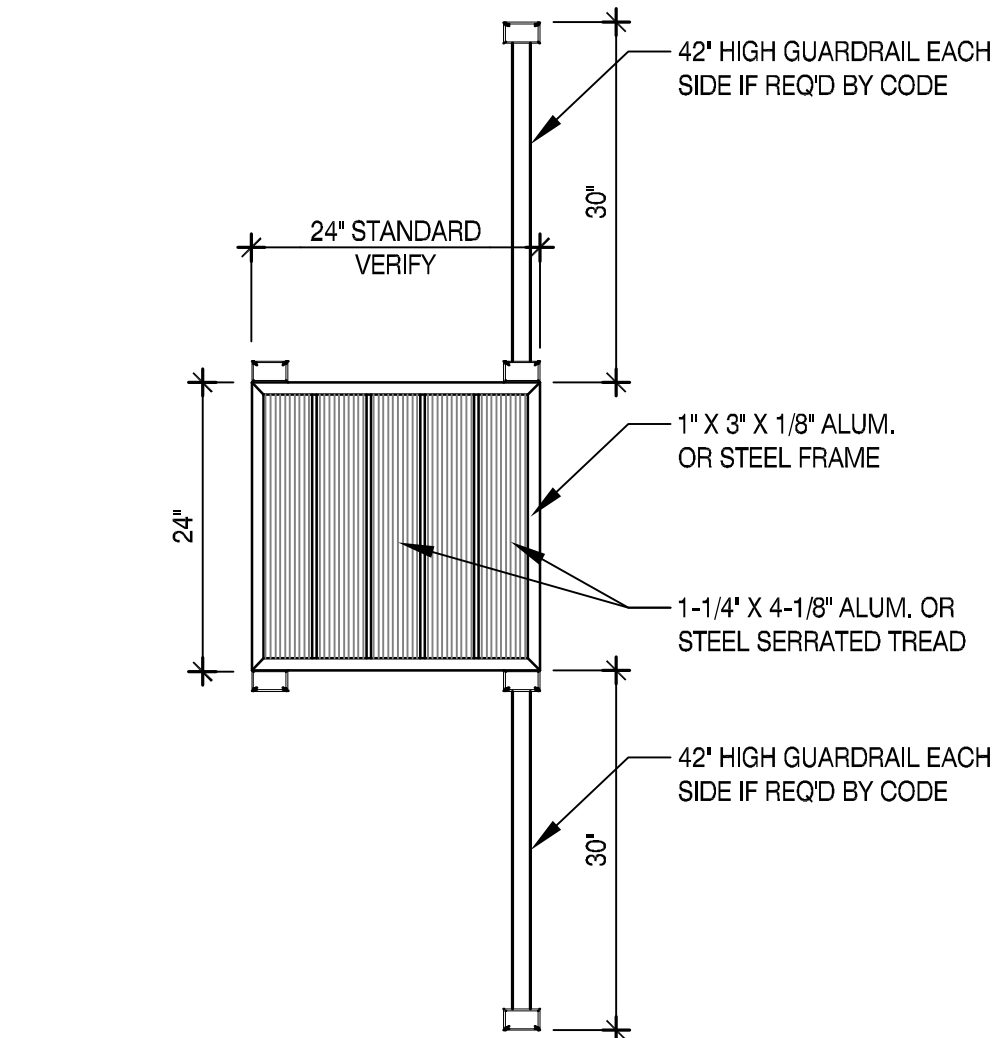
14 DETAIL  
SCALE: 1/2" = 1'-0"

MAIN GATE EGRESS HARDWARE



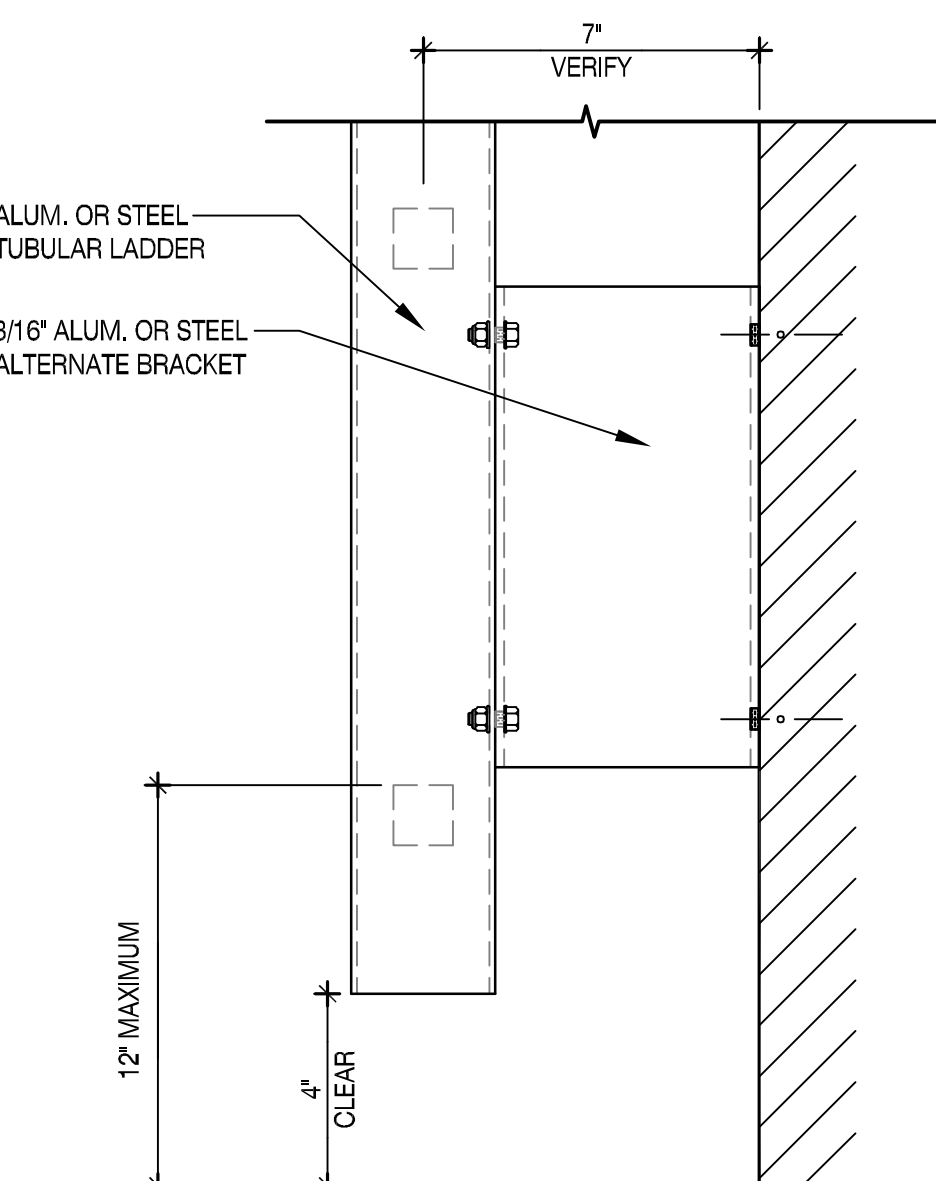
13 PROPANE CANOPY DETAIL  
SCALE: 3/4" = 1'-0"

CONNECTION @ CONCRETE



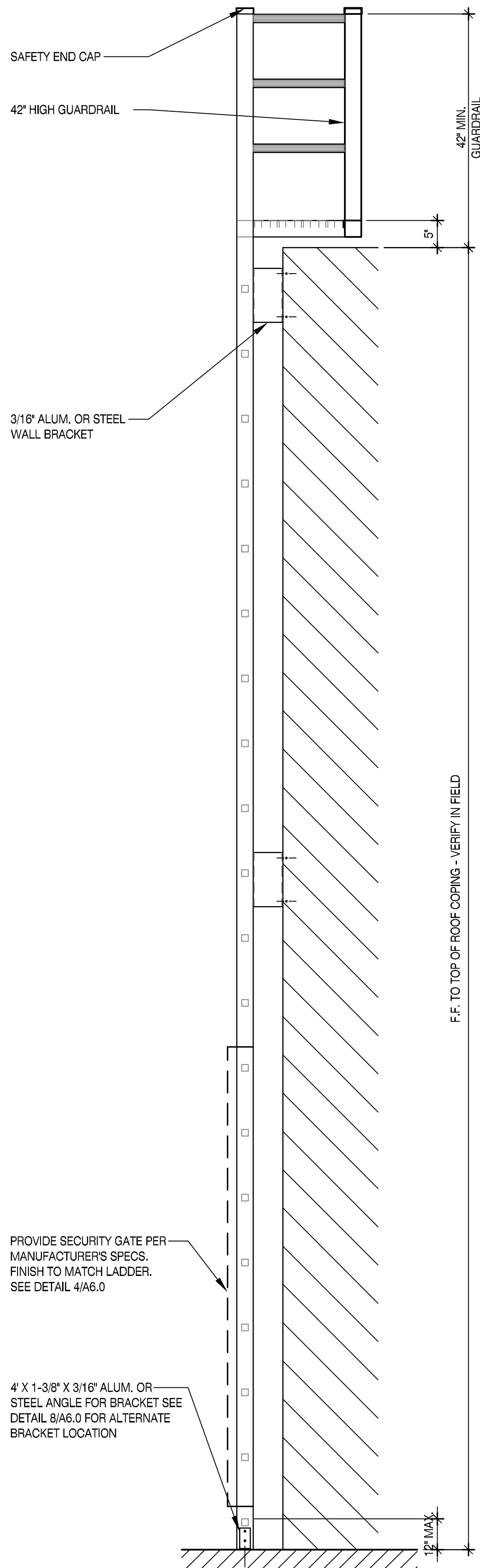
9 DETAIL  
SCALE: 3/4" = 1'-0"

PLATFORM PLAN



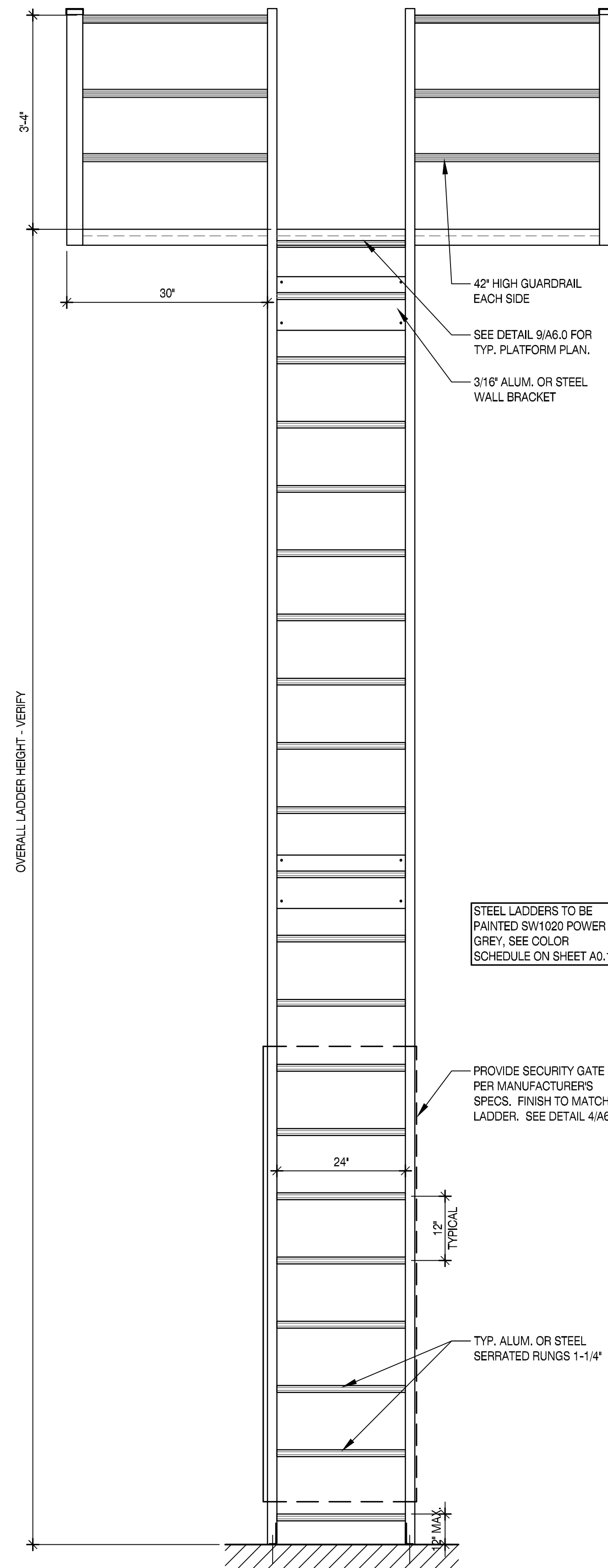
8 DETAIL  
SCALE: 3/4" = 1'-0"

ALTERNATE BOTTOM SUPPORT



7 ELEVATION  
SCALE: 3/4" = 1'-0"

@ ROOF ACCESS LADDER SIDE



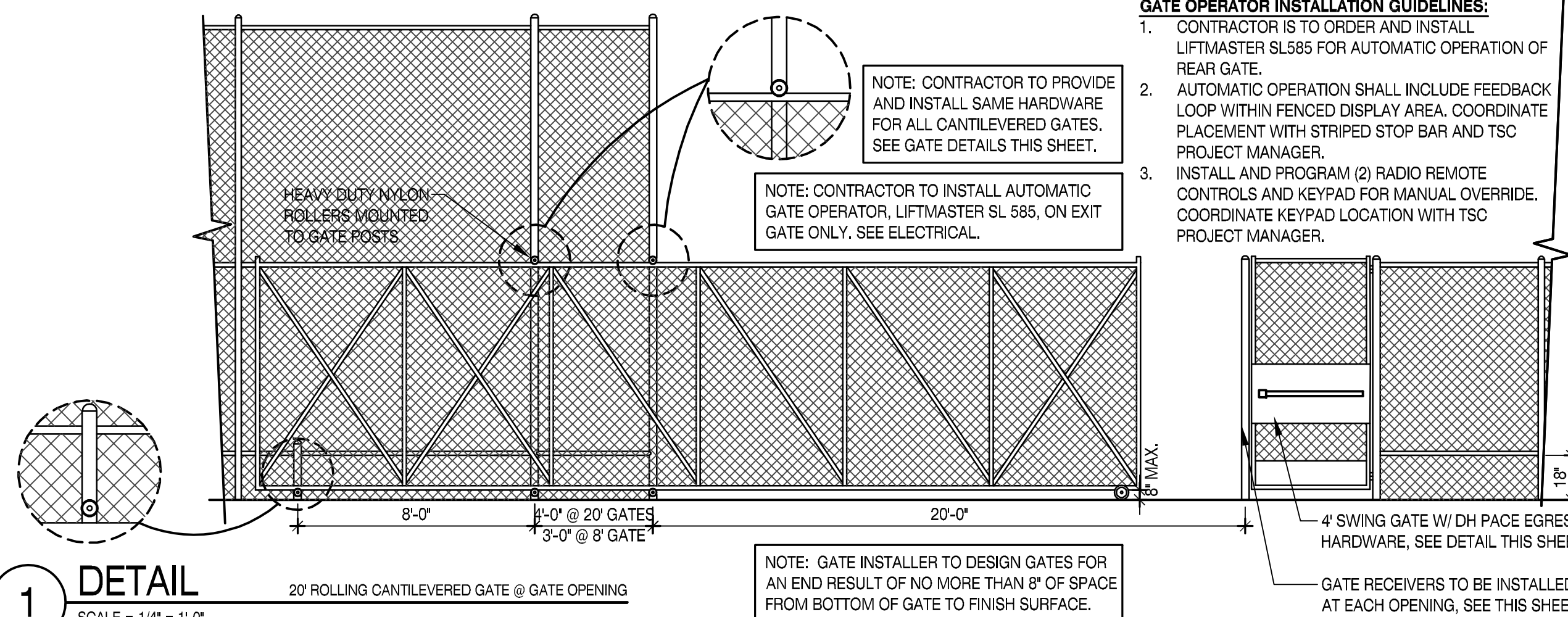
6 ELEVATION  
SCALE: 3/4" = 1'-0"

@ ROOF ACCESS LADDER FRONT

STEEL LADDERS TO BE  
PAINTED SW1020 POWER  
GREY, SEE COLOR  
SCHEDULE ON SHEET A0.1.

PROVIDE SECURITY GATE  
PER MANUFACTURER'S  
SPECS. FINISH TO MATCH  
LADDER. SEE DETAIL 4/A6.0

TYP. ALUM. OR STEEL  
SERRATED RUNGS 1-1/4"



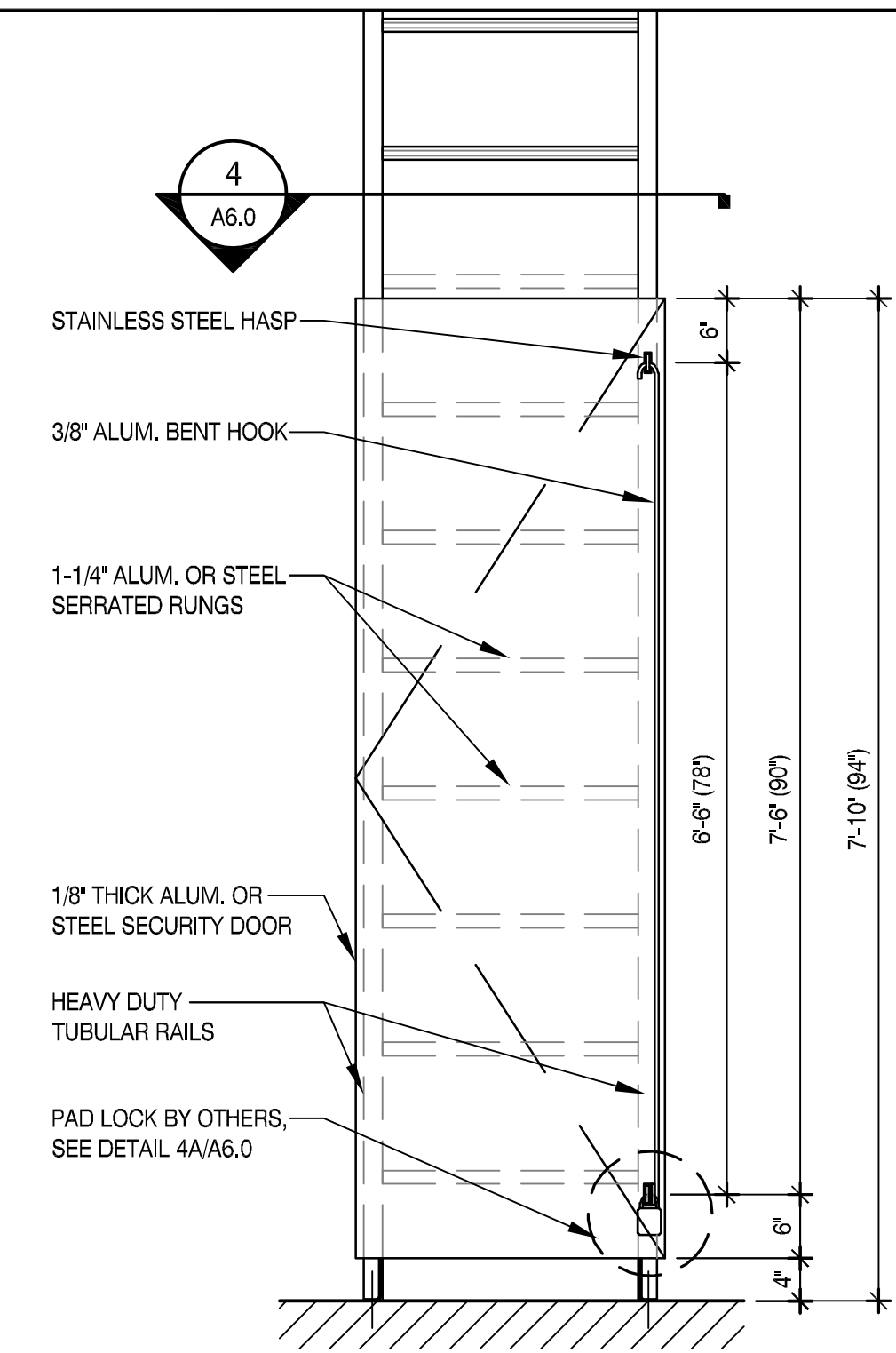
1 DETAIL  
SCALE: 1/4" = 1'-0"

20' ROLLING CANTILEVERED GATE @ GATE OPENING

NOTE: GATE INSTALLER TO DESIGN GATES FOR  
AN END RESULT OF NO MORE THAN 8" OF SPACE  
FROM BOTTOM OF GATE TO FINISH SURFACE.

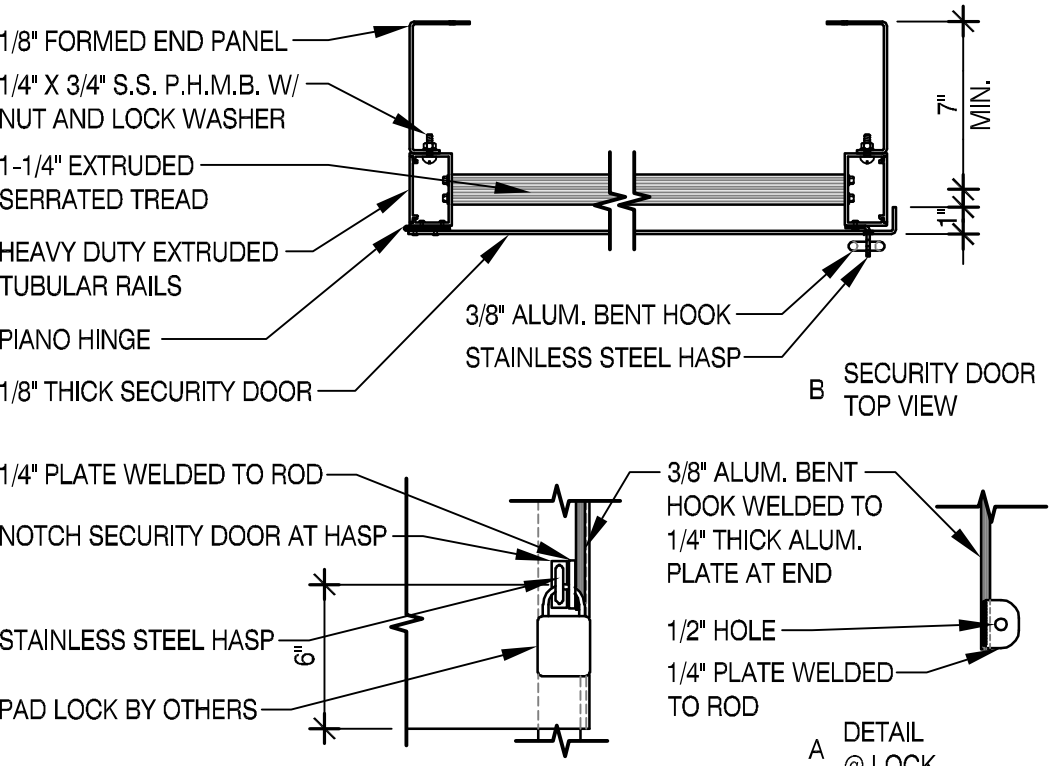
- GATE OPERATOR INSTALLATION GUIDELINES:**
- CONTRACTOR IS TO ORDER AND INSTALL LIFTMASTER SL585 FOR AUTOMATIC OPERATION OF REAR GATE.
  - AUTOMATIC OPERATION SHALL INCLUDE FEEDBACK LOOP WITHIN FENCED DISPLAY AREA. COORDINATE PLACEMENT WITH STRIPED STOP BAR AND TSC PROJECT MANAGER.
  - INSTALL AND PROGRAM (2) RADIO REMOTE CONTROLS AND KEYPAD FOR MANUAL OVERRIDE. COORDINATE KEYPAD LOCATION WITH TSC PROJECT MANAGER.

GATE RECEIVERS TO BE INSTALLED  
AT EACH OPENING. SEE THIS SHEET



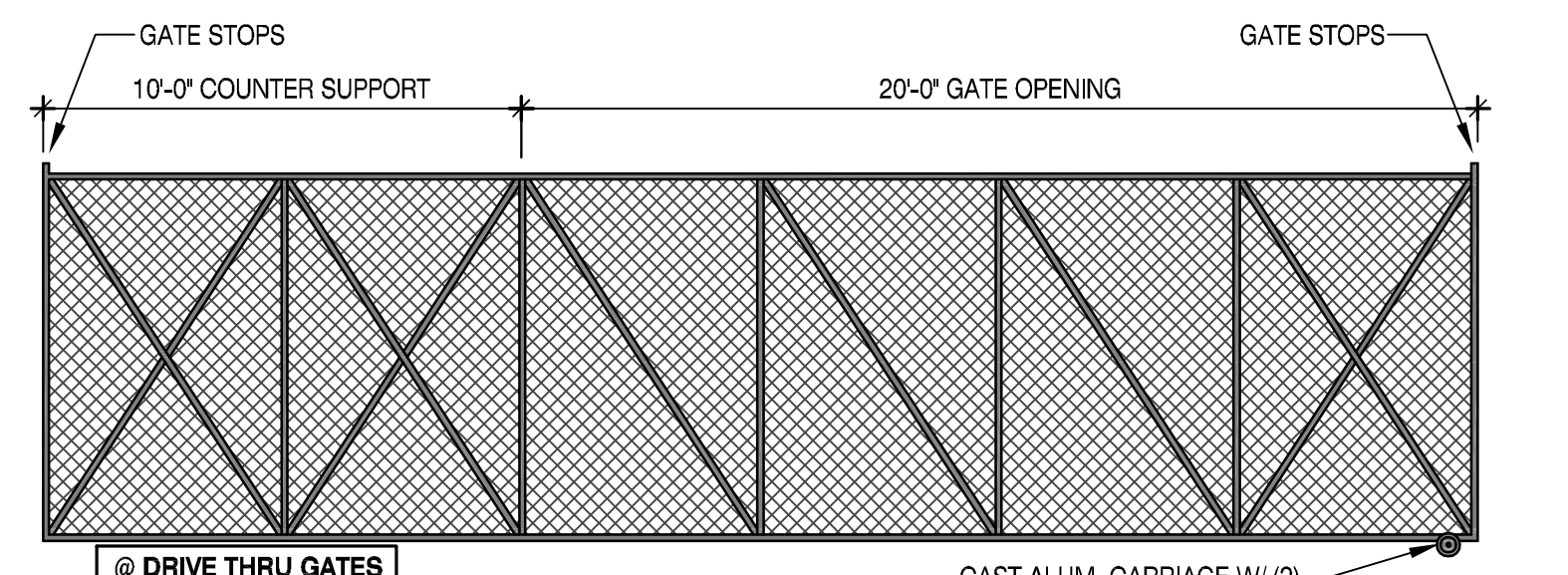
5 ELEVATION  
SCALE: 3/4" = 1'-0"

@ SECURITY GATE



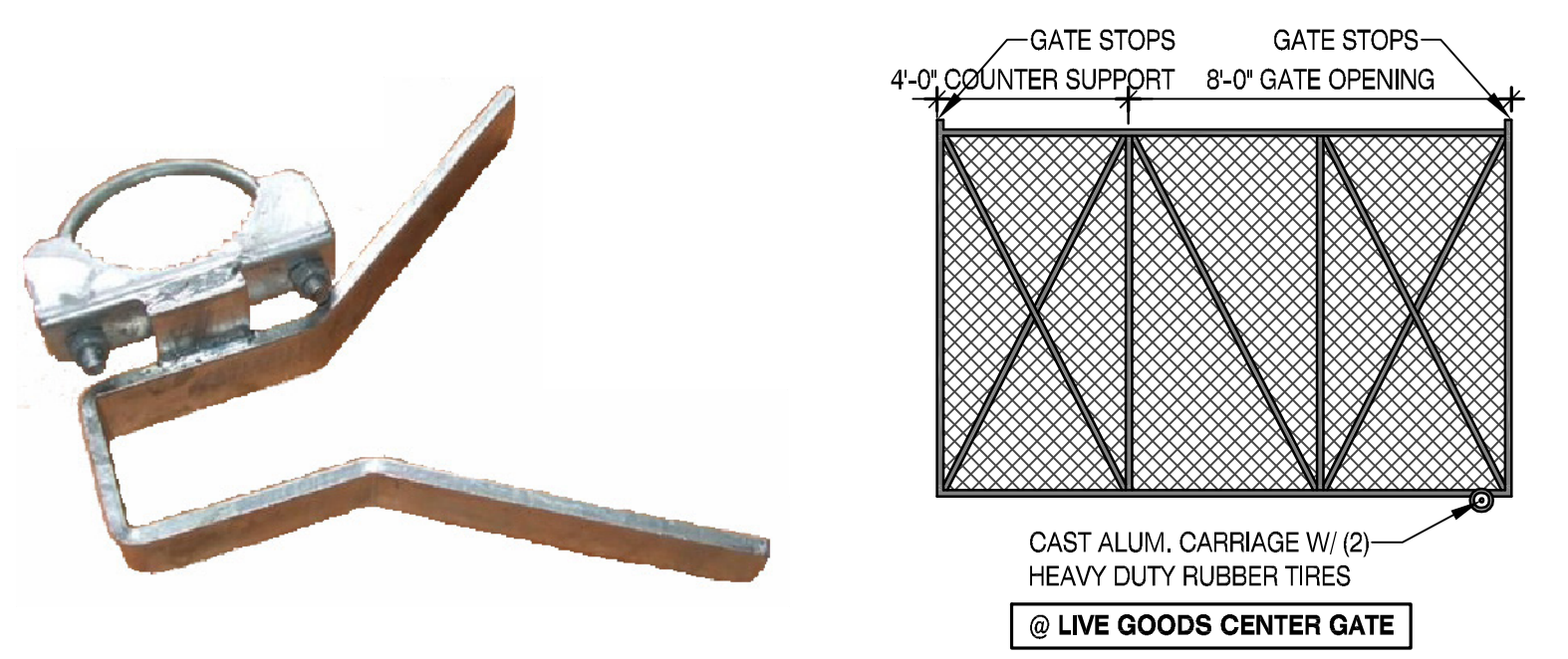
4 DETAIL  
SCALE: 3/4" = 1'-0"

@ SECURITY GATE & LOCK



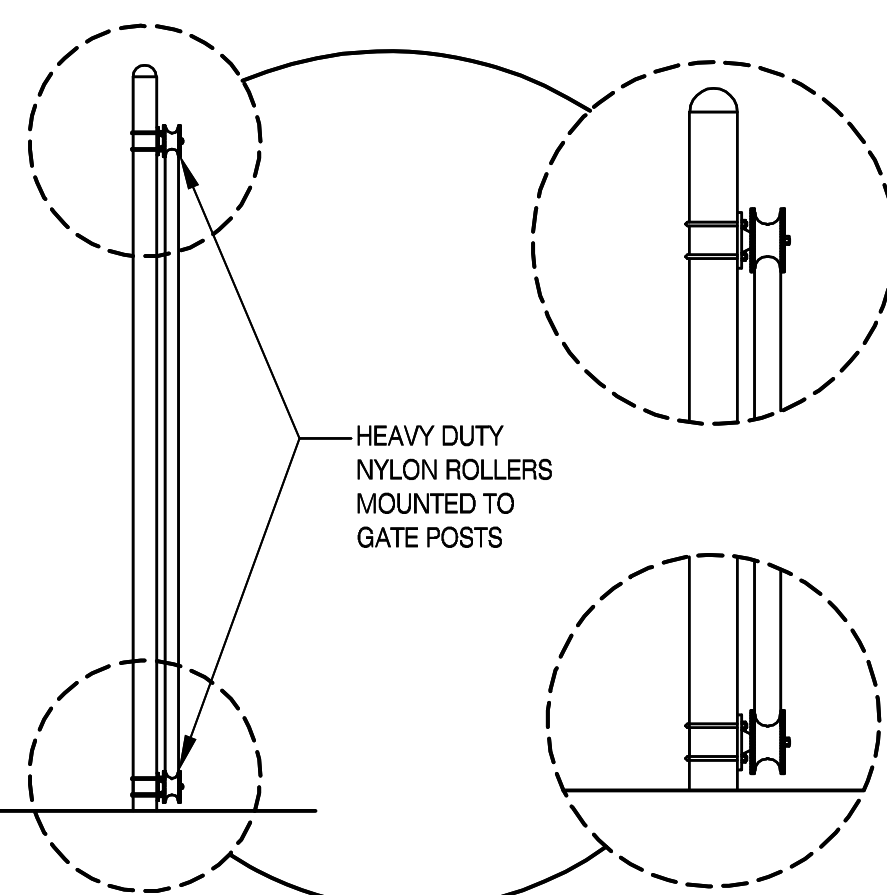
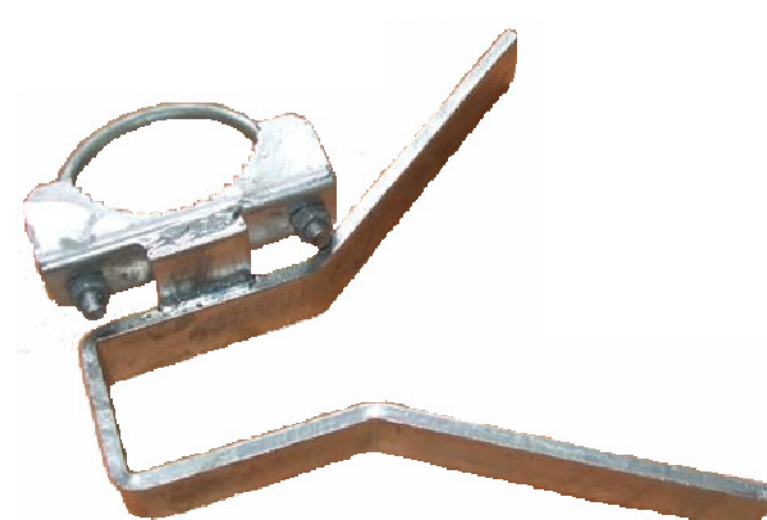
3 DETAIL  
SCALE: 1/4" = 1'-0"

20' ROLLING CANTILEVERED GATE



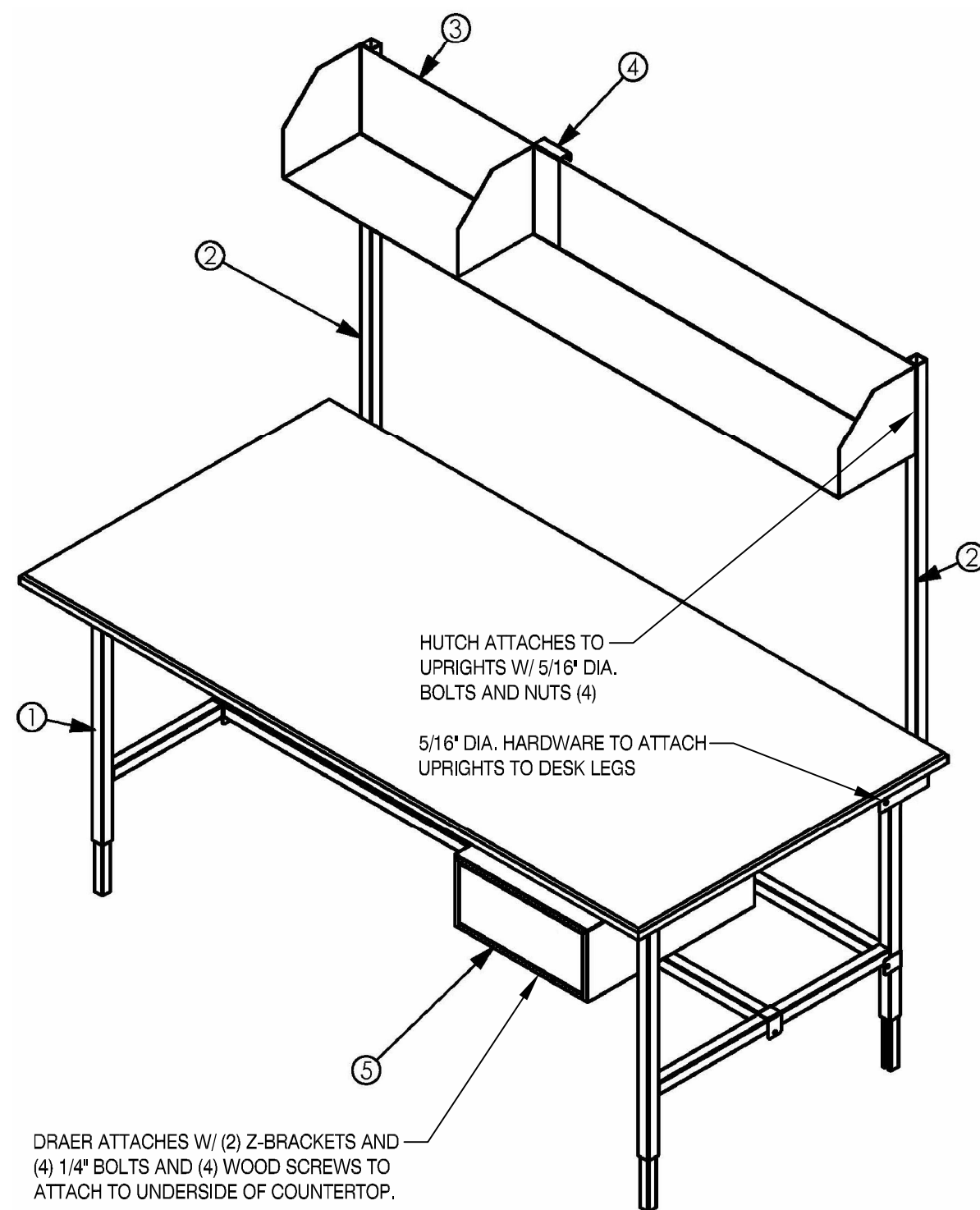
2 DETAIL  
SCALE: 1/4" = 1'-0"

8' ROLLING CANTILEVERED GATE

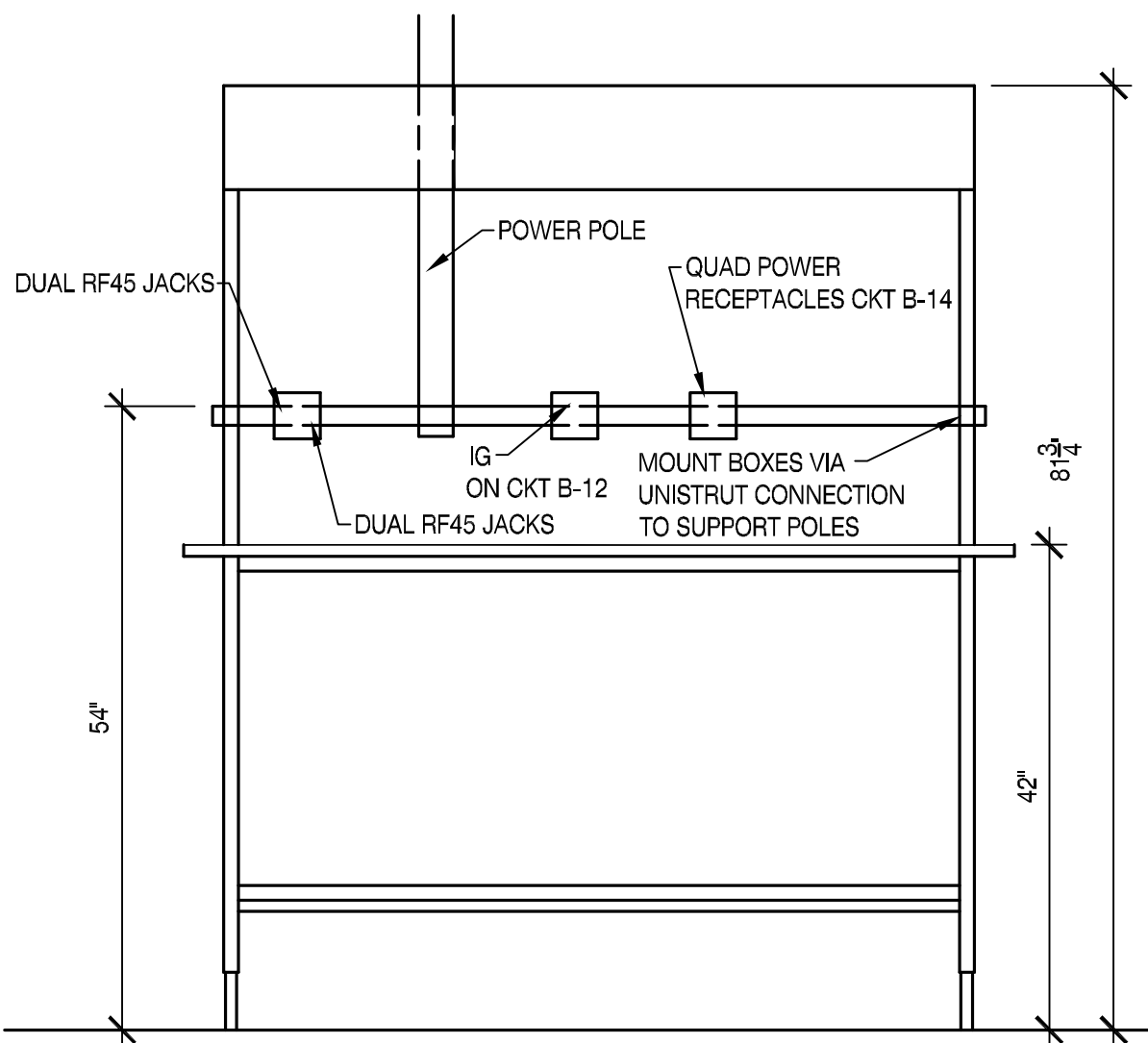




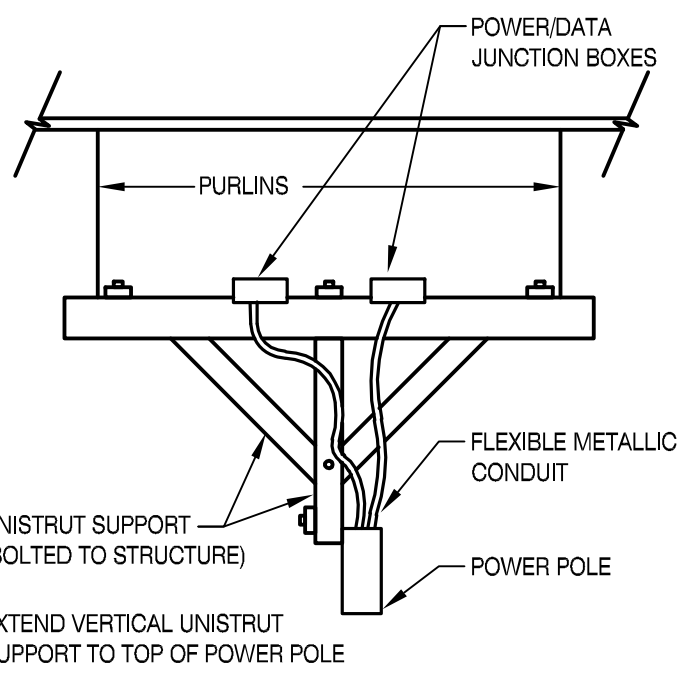
RECEIVING DESK



12 RECEIVING TABLE ISOMETRIC  
SCALE: NONE



11 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

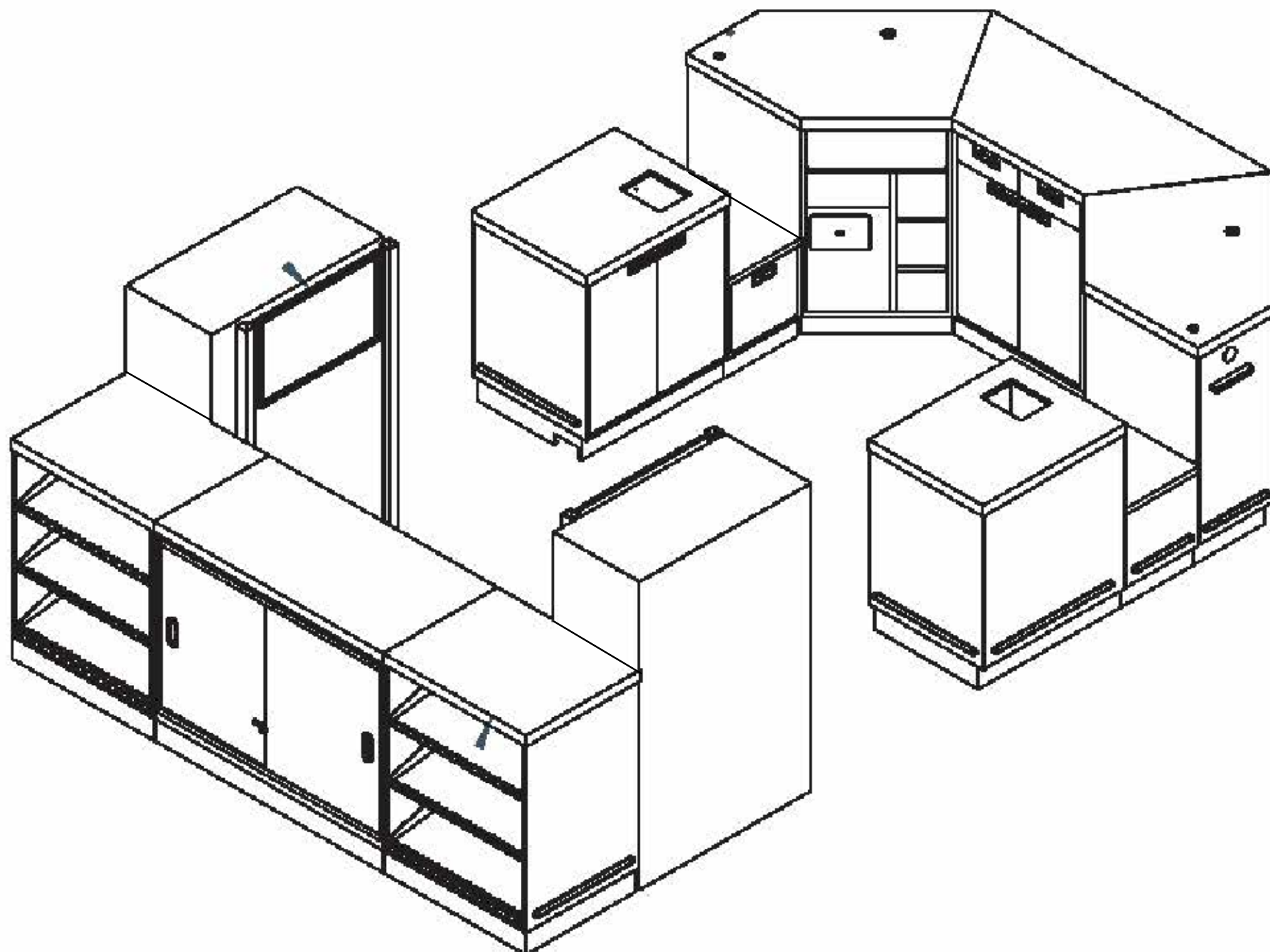
EXHIBIT H-1  
TRAINING CERTIFICATION

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).

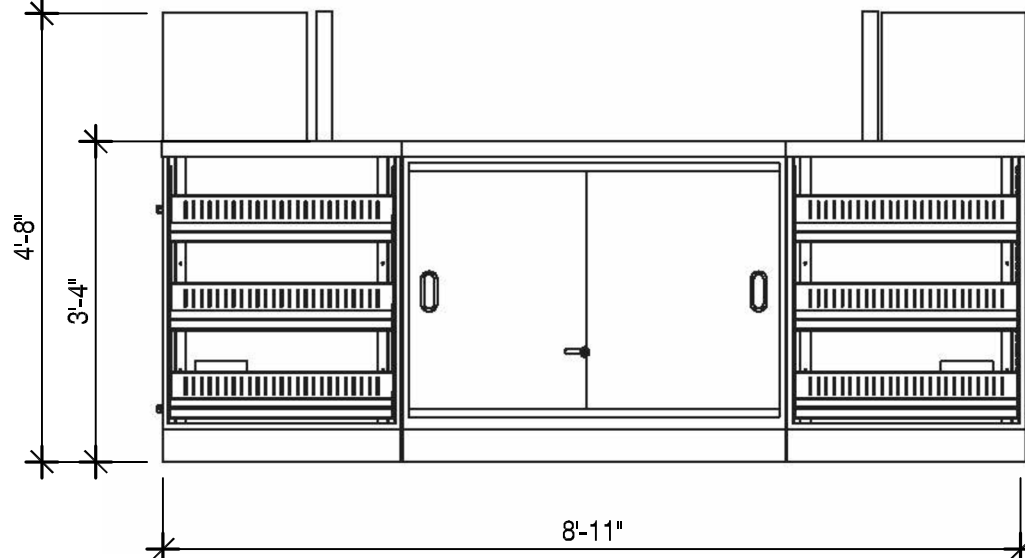
STORE # \_\_\_\_\_ CITY/STATE \_\_\_\_\_  
STORE MANAGER \_\_\_\_\_ GENERAL CONTRACTOR \_\_\_\_\_

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!

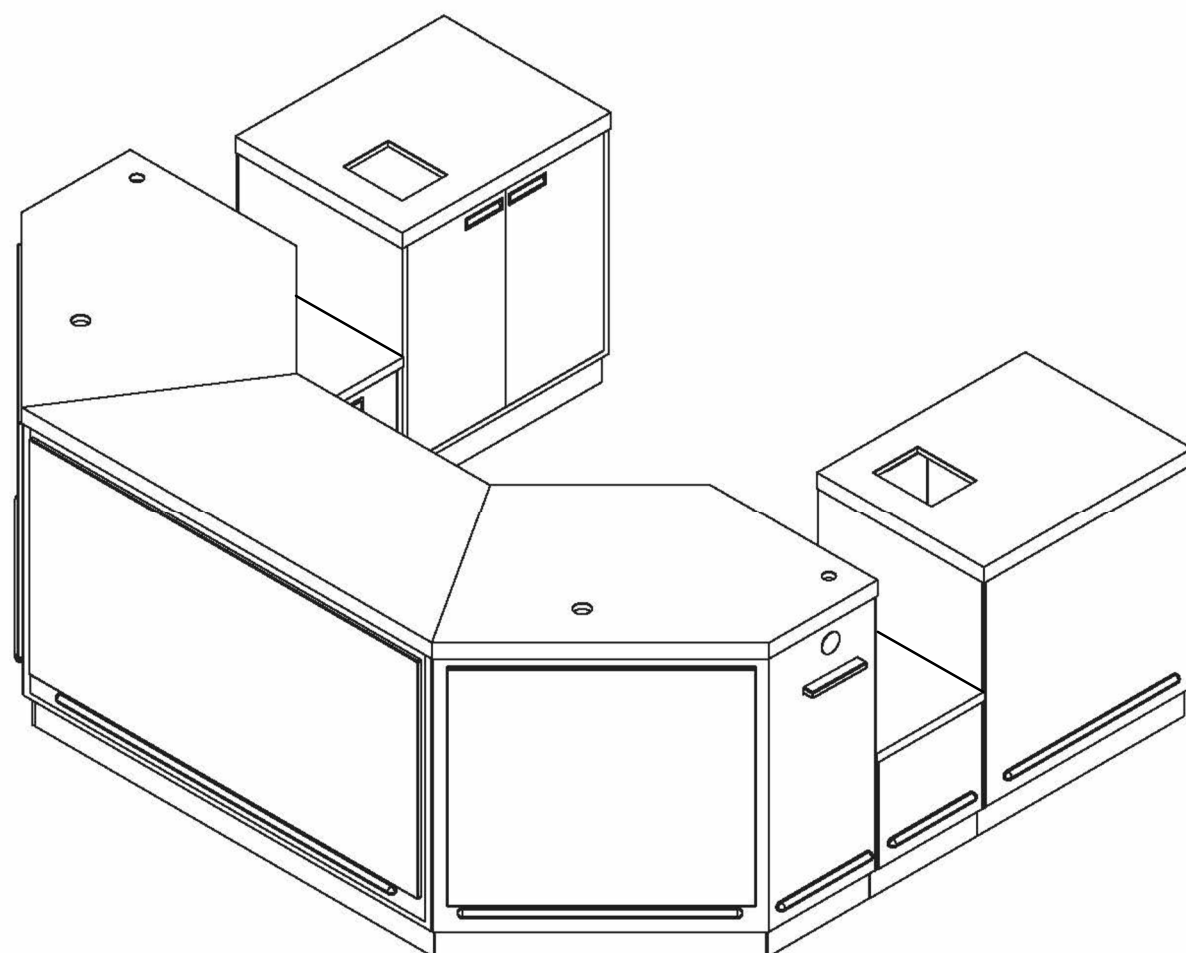
9 EXHIBIT H-1  
TRAINING CERTIFICATION



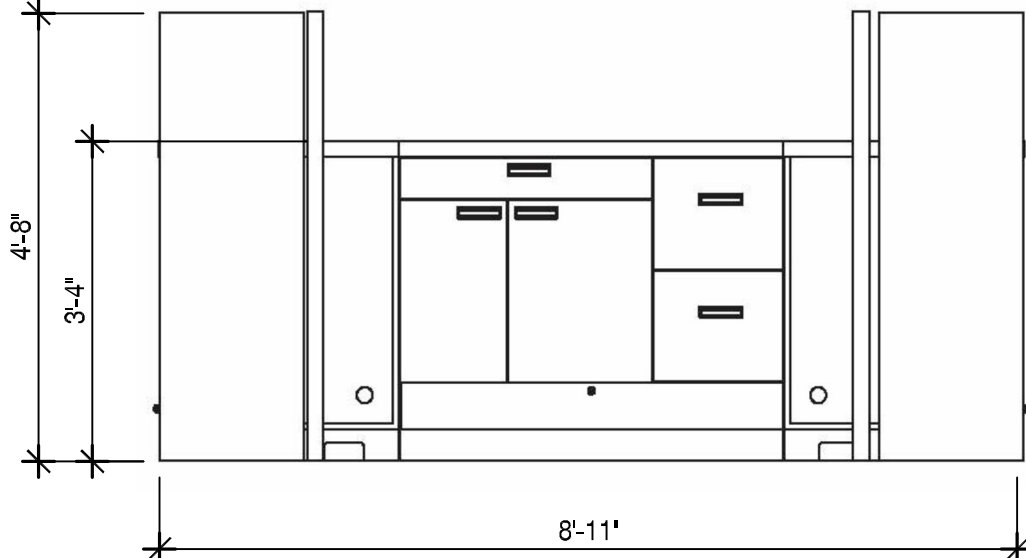
8 ISOMETRIC  
SCALE: 1/2\"/>



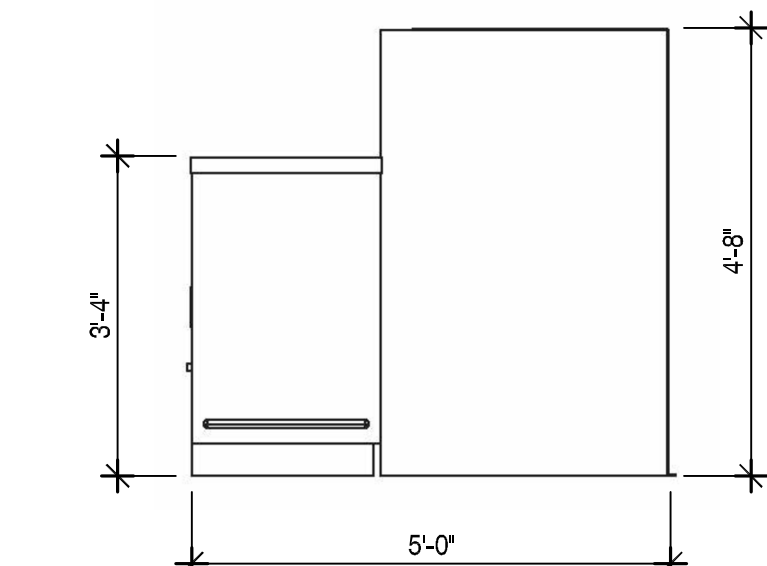
6 ELEVATION  
SCALE: 1/2\"/>



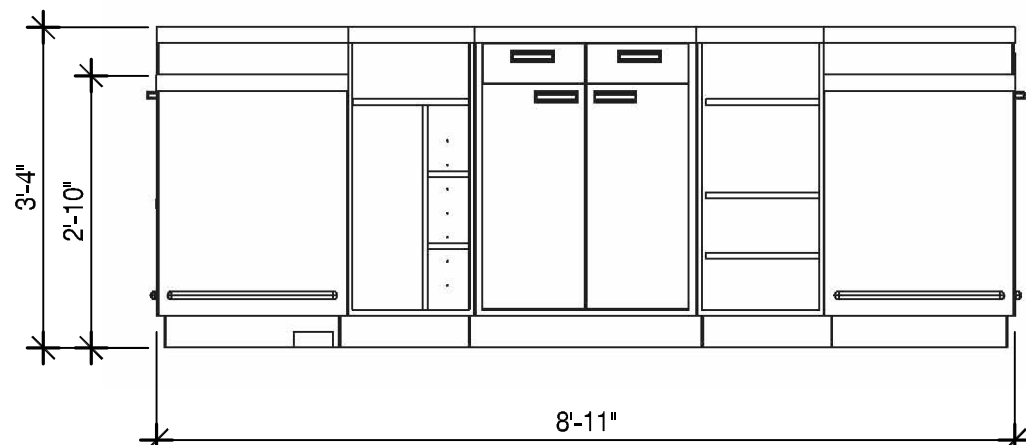
7 ISOMETRIC  
SCALE: 1/2\"/>



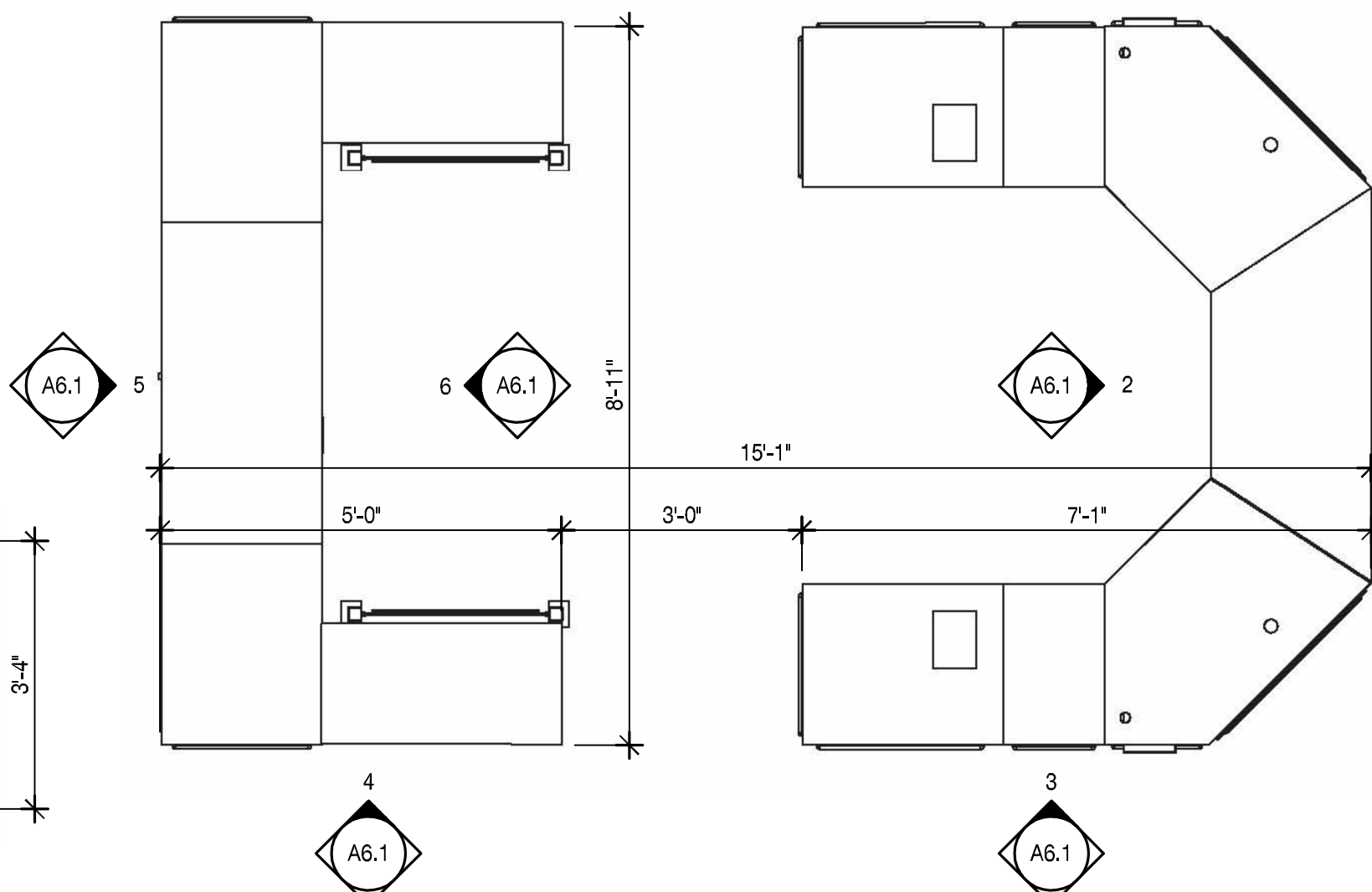
5 ELEVATION  
SCALE: 1/2\"/>



4 ELEVATION  
SCALE: 1/2\"/>

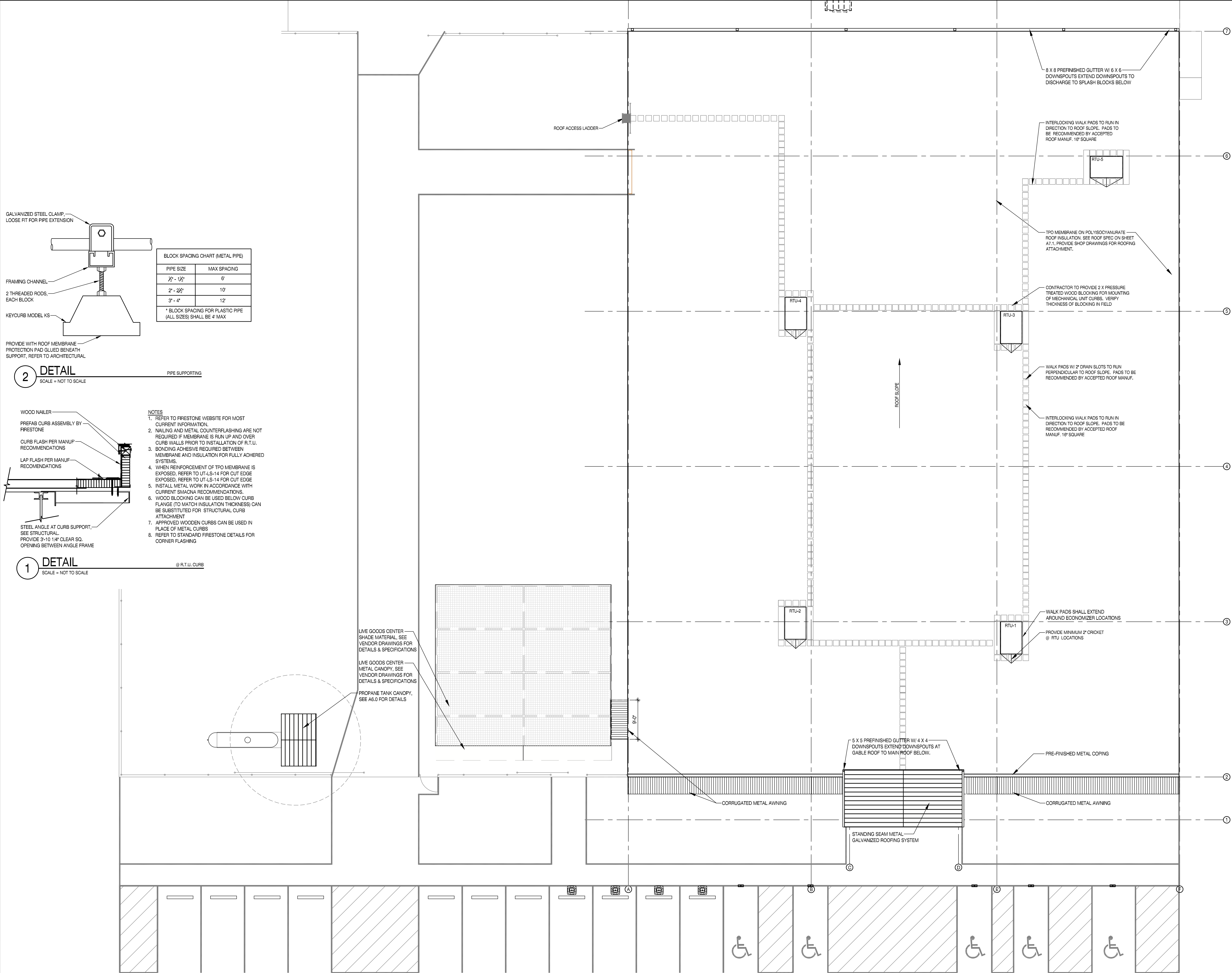


2 ELEVATION  
SCALE: 1/2\"/>



1 ENLARGED PLAN  
SCALE: 1/2\"/>





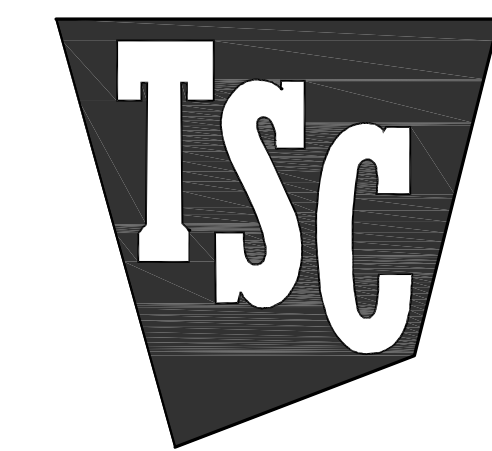




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Job Number: 2485

Date: 01.20.2025

Revisions:

Revisions:

Revisions:

ROOF SPECIFICATIONS

Sheet Number: A7.1

## SECTION 07500

### MEMBRANE ROOFING

#### PART 1 GENERAL

##### 1.01 SUMMARY

- PROJECT NAME, TRACTOR SUPPLY.
- FURNISH AND INSTALL ELASTOMERIC SHEET ROOFING SYSTEM, INCLUDING:
  - ROOFING MANUFACTURER'S REQUIREMENTS FOR THE SPECIFIED WARRANTY.
  - PREPARATION OF ROOFING SUBSTRATES.
  - WOOD NAILERS FOR ROOFING ATTACHMENT.
  - INSULATION.
  - ELASTOMERIC MEMBRANE ROOFING.
  - METAL ROOF EDGING AND COPINGS.
  - FLASHINGS.
  - WALKWAY PADS.
  - OTHER ROOFING-RELATED ITEMS SPECIFIED OR INDICATED ON THE DRAWINGS OR OTHERWISE NECESSARY TO PROVIDE A COMPLETE WEATHERPROOF ROOFING SYSTEM.
- DISPOSAL OF DEMOLITION DEBRIS AND CONSTRUCTION WASTE IS THE RESPONSIBILITY OF CONTRACTOR. PERFORM DISPOSAL IN MANNER COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- COMPLY WITH THE PUBLISHED RECOMMENDATIONS AND INSTRUCTIONS OF THE ROOFING MEMBRANE MANUFACTURER, AT [HTTP://MANUAL.FSBP.COM](http://manual.fsbp.com).
- COMMENCEMENT OF WORK BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGEMENT BY THE CONTRACTOR THAT THIS SPECIFICATION CAN BE SATISFACTORILY EXECUTED UNDER THE PROJECT CONDITIONS AND WITH ALL NECESSARY PREREQUISITES FOR WARRANTY ACCEPTANCE BY ROOFING MEMBRANE MANUFACTURER. NO MODIFICATION OF THE CONTRACT SUM WILL BE MADE FOR FAILURE TO ADEQUATELY EXAMINE THE CONTRACT DOCUMENTS OR THE PROJECT CONDITIONS.

##### 1.02 REFERENCES

- REFERENCED STANDARDS: THESE STANDARDS FORM PART OF THIS SPECIFICATION ONLY TO THE EXTENT THEY ARE REFERENCED AS SPECIFICATION REQUIREMENTS.
- ASTM C 1289 - STANDARD SPECIFICATION FOR FACED RIGID CELLULAR POLYISOCYANURATE THERMAL INSULATION BOARD; 2004.
- ASTM C 1549 - STANDARD TEST METHOD FOR DETERMINATION OF SOLAR REFLECTANCE NEAR AMBIENT TEMPERATURE USING A PORTABLE SOLAR REFLECTOMETER; 2004.
- ASTM D 751 - STANDARD TEST METHODS FOR COATED FABRICS
- ASTM D 1079 - STANDARD TERMINOLOGY RELATING TO ROOFING, WATERPROOFING, AND BITUMINOUS MATERIALS; 2005A.
- ASTM D 6878 - STANDARD SPECIFICATION FOR THERMOPLASTIC POLYOLEFIN BASED SHEET ROOFING; 2003.
- CAN-ULC-S770 - STANDARD TEST METHOD DETERMINATION OF L-TERM THERMAL RESISTANCE OF CLOSED-CELL THERMAL INSULATING FOAMS; 2003.
- FM 1-28 - DESIGN WIND LOADS; FACTORY MUTUAL SYSTEM; 2002.
- FM 1-29 - ROOF DECK SEQUEMMENT AND ABOVE DECK ROOF COMPONENTS; FACTORY MUTUAL SYSTEM; 2005.
- SPR ES-1 - WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS; 2003. (ANSISPR ES-1).

##### 1.03 DEFINITIONS

- ROOFING TERMINOLOGY: REFER TO ASTM D 1079 FOR DEFINITION OF TERMS RELATED TO ROOFING WORK NOT OTHERWISE DEFINED IN THE SECTION.
- LTR: LONG TERM THERMAL RESISTANCE, AS DEFINED BY CAN-ULC S770.

##### 1.04 SUBMITTALS

- PRODUCT DATA:
  - PROVIDE MEMBRANE MANUFACTURER'S PRINTED DATA SUFFICIENT TO SHOW THAT ALL COMPONENTS OF ROOFING SYSTEM, INCLUDING INSULATION AND FASTENERS, COMPLY WITH THE SPECIFIED REQUIREMENTS AND WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR THE SYSTEM TYPE SPECIFIED; INCLUDE DATA FOR EACH PRODUCT USED IN CONJUNCTION WITH ROOFING MEMBRANE.
  - WHERE UL OR FM REQUIREMENTS ARE SPECIFIED, PROVIDE DOCUMENTATION THAT SHOWS THAT THE ROOFING SYSTEM TO BE INSTALLED IS UL-CCLASSIFIED OR FM-APPROVED, AS APPLICABLE; INCLUDE DATA ITEMIZING THE COMPONENTS OF THE CLASSIFIED OR APPROVED SYSTEM.
  - INSTALLATION INSTRUCTIONS: PROVIDE MANUFACTURER'S INSTRUCTIONS TO INSTALLER, MARKED UP TO SHOW EXACTLY HOW ALL COMPONENTS WILL BE INSTALLED; WHERE INSTRUCTIONS ALLOW INSTALLATION OPTIONS, CLEARLY INDICATE WHICH OPTION WILL BE USED.
- SAMPLES: SUBMIT SAMPLES OF EACH PRODUCT TO BE USED.
- SHOP DRAWINGS: PROVIDE
  - THE ROOF MEMBRANE MANUFACTURER'S STANDARD DETAILS CUSTOMIZED FOR THIS PROJECT FOR ALL RELEVANT CONDITIONS, INCLUDING FLASHINGS, BASE TIE-INS, ROOF EDGES, TERMINATIONS, EXPANSION JOINTS, PENETRATIONS, AND DRAINS.
- SECTIONS/WARRANTY: SUBMIT PRIOR TO STARTING WORK.
- PRE-INSTALLATION NOTICE: COPY TO SHOW THAT MANUFACTURERS REQUIRED PRE INSTALLATION NOTICE (PIN) HAS BEEN ACCEPTED AND APPROVED BY THE MANUFACTURER.
- EXECUTED WARRANTY.

##### 1.05 QUALITY ASSURANCE

- APPLICATOR QUALIFICATIONS: ROOFING INSTALLER SHALL HAVE THE FOLLOWING:
  - CURRENT FIRESTONE MASTER CONTRACTOR STATUS.
  - AT LEAST FIVE YEARS EXPERIENCE IN INSTALLING SPECIFIED SYSTEM.

##### 1.06 DELIVERY, STORAGE AND HANDLING

- DELIVER PRODUCTS IN MANUFACTURER'S ORIGINAL CONTAINERS, DRY AND UNDAMAGED, WITH SEALS AND LABELS INTACT AND LEGIBLE.
- STORE MATERIALS CLEAR OF GROUND AND MOISTURE WITH WEATHER PROTECTIVE COVERING.
- KEEP COMBUSTIBLE MATERIALS AWAY FROM IGNITION SOURCES.

##### 1.07 WARRANTY

- COMPLY WITH ALL WARRANTY PROCEDURES REQUIRED BY MANUFACTURER, INCLUDING NOTIFICATIONS, SCHEDULING, AND INSPECTION.
- WARRANTY: FIRESTONE 15 YEAR RED SHIELD LIMITED WARRANTY COVERING MEMBRANE, ROOF INSULATION, AND MEMBRANE ACCESSORIES.
  - LIMIT OF LIABILITY: NO DOLLAR LIMITATION.
  - SCOPE OF COVERAGE: REPAIR LEAKS IN THE ROOFING SYSTEM CAUSED BY:
    - ORDINARY WEAR AND TEAR OF THE ELEMENTS.
    - MANUFACTURING DEFECT IN FIRESTONE BRAND MATERIALS.
    - DEFECTIVE WORKMANSHIP USED TO INSTALL THESE MATERIALS.
  - DAMAGE DUE TO WINDS UP TO 55 MPH (88 KM/H).
- NOT COVERED:
  - DAMAGE DUE TO WINDS IN EXCESS OF 55 MPH (88 KM/H).
  - DAMAGE DUE HURRICANES OR TORNADOES.
  - HAIL.
  - INTENTIONAL DAMAGE.
  - UNINTENTIONAL DAMAGE DUE TO NORMAL ROOFTOP INSPECTIONS, MAINTENANCE, OR SERVICE.

#### PART 2 PRODUCTS

##### 2.01 MANUFACTURERS

- ACCEPTABLE MANUFACTURER - ROOFING SYSTEM: FIRESTONE BUILDING PRODUCTS CO., INDIANAPOLIS, IN. [WWW.FIRESTONEBP.CO.COM](http://WWW.FIRESTONEBP.CO.COM).
  - ROOFING SYSTEMS MANUFACTURED BY OTHERS ARE ACCEPTABLE PROVIDED THE ROOFING SYSTEM IS COMPLETELY EQUIVALENT IN MATERIALS AND WARRANTY CONDITIONS AND THE MANUFACTURER MEETS THE FOLLOWING QUALIFICATIONS:
    - SPECIALIZING IN MANUFACTURING THE ROOFING SYSTEM TO BE PROVIDED.
    - MINIMUM TEN YEARS OF EXPERIENCE MANUFACTURING THE ROOFING SYSTEM TO BE PROVIDED.
    - ABLE TO PROVIDE A NO DOLLAR LIMIT, SINGLE SOURCE ROOF SYSTEM WARRANTY THAT IS BACKED BY CORPORATE ASSETS IN EXCESS OF ONE BILLION DOLLARS.
    - ISO 9002 CERTIFIED.
    - ABLE TO PROVIDE ISO/CANURATE INSULATION THAT IS PRODUCED IN OWN FACILITIES.
    - ROOFING SYSTEMS MANUFACTURED BY THE COMPANIES LISTED BELOW ARE ACCEPTABLE PROVIDED THEY ARE COMPLETELY EQUIVALENT IN MATERIALS AND WARRANTY CONDITIONS:
      - VERSICO
      - CHARLISSE SYNTEC SYSTEMS.
      - GAF
  - MANUFACTURER OF INSULATION AND COVER BOARDS: SAME MANUFACTURER AS ROOF MEMBRANE.
  - MANUFACTURER OF METAL ROOF EDGING: SAME MANUFACTURER AS ROOF MEMBRANE.
- METAL ROOF EDGING PRODUCTS BY OTHER MANUFACTURERS ARE NOT ACCEPTABLE.
- SUBSTITUTION PROCEDURES: SEE INSTRUCTIONS TO BIDDERS.
  - SUBMIT EVIDENCE THAT THE PROPOSED SUBSTITUTION COMPLIES WITH THE SPECIFIED REQUIREMENTS.

##### 2.02 ROOFING SYSTEM DESCRIPTION

- ROOFING SYSTEM:
    - MEMBRANE: THERMOPLASTIC CLEFIN (TPO).
    - THICKNESS: AS SPECIFIED ELSEWHERE.
    - MEMBRANE ATTACHMENT: FULLY ADHERED.
  - COMPLY WITH APPLICABLE LOCAL BUILDING CODE REQUIREMENTS.
  - PROVIDE ASSEMBLY HAVING UNDERWRITERS LABORATORIES, INC. (UL) CLASS A FIRE HAZARD CLASSIFICATION.
  - PROVIDE ASSEMBLY COMPLYING WITH FACTORY MUTUAL CORPORATION (FM) ROOF ASSEMBLY CLASSIFICATION, FM D8 1-28 AND 1-29, AND MEETING MINIMUM REQUIREMENTS OF FM 1-75 WIND UPLIFT RATINGS.
  - PROVIDE ASSEMBLY TO MEET THE FOLLOWING MINIMUM DESIGN UPLIFT-RESISTANCE CAPACITIES:  
-SEE STRUCTURAL SHEET S5.0.
- INSULATION:
  - TOTAL R VALUE: 25, MINIMUM.
  - MAXIMUM BOARD THICKNESS: 3.25 INCHES (83 MM); USE AS MANY LAYERS AS NECESSARY; STAGGER JOINTS IN ADJACENT LAYERS.
  - BASE LAYER: POLYISOCYANURATE FOAM BOARD, NON-COMPOSITE.
    - ATTACHMENT: LOOSE LAID, NO ATTACHMENT.
  - TOP LAYER: POLYISOCYANURATE FOAM BOARD, NON-COMPOSITE.
    - ATTACHMENT: MECHANICAL FASTENING.

##### 2.03 TPO MEMBRANE MATERIALS (THIS PROJECT REQUIRES 45 MIL. MEMBRANE)

- MEMBRANE: FLEXIBLE, HEAT WELDABLE SHEET COMPOSED OF THERMOPLASTIC POLYOLEFIN POLYMER AND ETHYLENE PROPYLENE RUBBER; COMPLYING WITH ASTM D 6878, WITH POLYESTER WFT INSERTED REINFORCEMENT AND THE FOLLOWING ADDITIONAL CHARACTERISTICS:
  - THICKNESS: 0.045 INCH (1.14 MM) PLUS/MINUS 10 PERCENT, WITH COATING THICKNESS OVER REINFORCEMENT OF 0.015 INCH (0.38 MM) PLUS/MINUS 10 PERCENT. REFER TO ASTM D7935 STANDARD TEST METHOD FOR MEASUREMENT OF THICKNESS OF COATINGS OVER FABRIC REINFORCEMENT.
  - SHEET WIDTH: PROVIDE SHEETS OF WIDTH NECESSARY TO ACCOMMODATE BATTEN SPACING REQUIRED BY MANUFACTURER FOR PROJECT CONDITIONS.
  - PUNCTURE RESISTANCE: 265 LBF (1174 N), MINIMUM, WHEN TESTED IN ACCORDANCE FTM 101C METHOD 2031.
  - SOLAR REFLECTANCE: 0.79, MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM C 1549.
  - COLOR: WHITE.
  - ACCEPTABLE PRODUCT: ULTRAPLY TPO BY FIRESTONE.
- MEMBRANE FASTENERS: TYPE AND SIZE AS REQUIRED BY ROOF MEMBRANE MANUFACTURER FOR ROOFING SYSTEM AND WARRANTY TO BE PROVIDED; USE ONLY FASTENERS FURNISHED BY ROOF MEMBRANE MANUFACTURER.
- CURB AND PARAPET FLASHING: SAME MATERIAL AS MEMBRANE, WITH ENCAPSULATED EDGE WHICH ELIMINATES NEED FOR SEAM SEALING THE FLASHING-TO-ROOF SPLICE; PRECUT TO 18 INCHES (457 MM) WIDE.
- FORMABLE FLASHING: NON-REINFORCED, FLEXIBLE, HEAT WELDABLE SHEET, COMPOSED OF THERMOPLASTIC POLYOLEFIN POLYMER AND ETHYLENE PROPYLENE RUBBER.
  - THICKNESS: 0.045 INCH (1.14 MM) PLUS/MINUS 10 PERCENT.
  - TENSILE STRENGTH: 1550 PSI (10.7 MPa), MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM D 638 AFTER HEAT AGING.
  - ELONGATION AT BREAK: 650 PERCENT, MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM D 638 AFTER HEAT AGING.
  - TEARING STRENGTH: 12 LBF (53 N), MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM D 1004 AFTER HEAT AGING.
  - COLOR: WHITE.
  - ACCEPTABLE PRODUCT: ULTRAPLY TPO FLASHING BY FIRESTONE.
- TAPE FLASHING: 5-12 INCH (140 MM) NOMINAL WIDE TPO MEMBRANE LAMINATED TO CURED RUBBER POLYMER SEALING TAPE, OVERALL THICKNESS 0.085 INCH (1.6 MM) NOMINAL. TPO QUICKSEAL FLASHING BY FIRESTONE.
- POURABLE SEALER: TWO-PART POLYURETHANE, TWO-COLOR FOR RELIABLE MIXING; POURABLE SEALER BY FIRESTONE.
- SEAM PLATES: STEEL WITH BARBS AND GALVALUME COATING; CORROSION-RESISTANCE COMPLYING WITH FM 4470.
- TERMINATION BARS: ALUMINUM BARS WITH INTEGRAL CAULK LEDGE; 1.3 INCHES (33 MM) WIDE BY 0.10 INCH (2.5 MM) THICK. FIRESTONE BATT FLASHING BY FIRESTONE.
- CUT EDGE SEALANT: SYNTHETIC RUBBER-BASED, FOR USE WHERE MEMBRANE REINFORCEMENT IS EXPOSED; ULTRAPLY TPO CUT EDGE SEALANT BY FIRESTONE.
- GENERAL PURPOSE SEALANT: EPDM-BASED, ONE PART, WHITE GENERAL PURPOSE SEALANT; ULTRAPLY TPO GENERAL PURPOSE SEALANT BY FIRESTONE.
- MOLDED FLASHING ACCESSORIES: UNREINFORCED TPO MEMBRANE PRE-MOLDED TO SUIT A VARIETY OF FLASHING DETAILS, INCLUDING PIPE BOOTS, INSIDE CORNERS, OUTSIDE CORNERS, ETC.; ULTRAPLY TPO SMALL AND LARGE PIPE FLASHING BY FIRESTONE.
- ROOF WALKWAY PADS: NON-REINFORCED TPO WALKWAY PADS, 0.130 INCH (3 MM) BY 30 INCHES (760 MM) BY 50 FEET (15.24 M) LONG WITH PATTERNED TRAFFIC BEARING SURFACE; ULTRAPLY TPO WALKWAY PADS BY FIRESTONE.

##### 2.04 ROOF INSULATION AND COVER BOARDS

- POLYISOCYANURATE BOARD INSULATION: CLOSED CELL POLYISOCYANURATE FOAM WITH BLACK GLASS REINFORCED MAT LAMINATED TO FACES, COMPLYING WITH ASTM C 1289 TYPE I CLASS 1, WITH THE FOLLOWING ADDITIONAL CHARACTERISTICS:
  - THICKNESS: AS INDICATED ELSEWHERE.
  - SIZE: 48 INCHES (1220 MM) BY 96 INCHES (2440 MM), NOMINAL.
    - EXCEPTION: INSULATION TO BE ATTACHED USING ADHESIVE OR ASPHALT MAY BE NO LARGER THAN 48 INCHES (1220 MM) BY 48 INCHES (1220 MM), NOMINAL.
  - R-VALUE (LTR):
    - 1.0 INCH (25 MM) THICKNESS: 5.6, MINIMUM.
    - 1.5 INCH (38 MM) THICKNESS: 8.5, MINIMUM.
    - 2.0 INCH (51 MM) THICKNESS: 11.4, MINIMUM.
    - 2.5 INCH (64 MM) THICKNESS: 14.4, MINIMUM.
  - COMPRESSIVE STRENGTH: 20 PSI (138 KPa) WHEN TESTED IN ACCORDANCE WITH ASTM C 1289.
  - OZONE DEPLETION POTENTIAL: ZERO; MADE WITHOUT CFC OR HCFC BLOWING AGENTS.
  - RECYCLED CONTENT: 19 PERCENT POST-CONSUMER AND 15 PERCENT POST-INDUSTRIAL, AVERAGE.
- INSULATION FASTENERS: TYPE AND SIZE AS REQUIRED BY ROOF MEMBRANE MANUFACTURER FOR ROOFING SYSTEM AND WARRANTY TO BE PROVIDED; USE ONLY FASTENERS FURNISHED BY ROOF MEMBRANE MANUFACTURER.

##### 2.05 METAL ACCESSORIES

- METAL ROOF EDGING AND FASCIA: CONTINUOUS METAL EDGE MEMBER SERVING AS TERMINATION OF ROOF MEMBRANE AND RETAINER FOR METAL FASCIA; WATERTIGHT WITH NO EXPOSED FASTENERS; MOUNTED TO ROOF EDGE NAILER.
  - WIND PERFORMANCE:
    - MEMBRANE PULL-OFF RESISTANCE: 100 LBS/FT (1480 N/M), MINIMUM, WHEN TESTED IN ACCORDANCE WITH ANSISPR ES-1 TEST METHOD RE-1, CURRENT EDITION.
    - FASCIA PULL-OFF RESISTANCE: AT LEAST THE MINIMUM REQUIRED WHEN TESTED IN ACCORDANCE WITH ANSISPR ES-1 TEST METHOD RE-2, CURRENT EDITION.
    - PROVIDE PRODUCT LISTED IN CURRENT FACTORY MUTUAL RESEARCH CORPORATION APPROVAL GUIDE WITH AT LEAST FM 1-270 RATING.
  - DESCRIPTION: TWO-PIECE: EXTRUDED ALUMINUM T-SHAPED EDGE MEMBER SECURING TOP AND BOTTOM EDGES OF FLAT-FACED FORMED METAL FASCIA; FIRESTONE ANCHORGARD.
  - FASCIA FACE HEIGHT: 5 INCHES (127 MM).
  - EDGE MEMBER HEIGHT ABOVE NAILER: 1-1/4 INCHES (31 MM).
  - FASCIA MATERIAL AND FINISH: 0.040 INCH (1.0 MM) THICK FORMED ALUMINUM, NATURAL MILL FINISH; MATCHING CONCEALED JOINT SPlice PLATES; FACTORY-INSTALLED PROTECTIVE PLASTIC FILM.
  - LENGTH: 120 INCHES (3048 MM).
  - FUNCTIONAL CHARACTERISTICS: FASCIA RETAINER SUPPORTS WHILE ALLOWING FOR FREE THERMAL CYCLING OF FASCIA.
  - ALUMINUM BAR: CONTINUOUS 6063-T6 ALLOY ALUMINUM EXTRUSION WITH PRE-PUNCHED SLOTTED HOLES; MITERS WELDED; INJECTION MOLDED EPDM SPLICES TO ALLOW THERMAL EXPANSION.
  - ANCHOR BAR CLEAT: 20 GAUGE, 0.036 INCH (0.9 MM) G90 COATED COMMERCIAL TYPE GALVANIZED STEEL WITH PRE-PUNCHED HOLES.
  - CURVED APPLICATIONS: FACTORY MODIFIED.
  - FASTENERS: FACTORY-PROVIDED CORROSION RESISTANT FASTENERS, WITH DRIVERS; NO EXPOSED FASTENERS PERMITTED.
  - SPECIAL SHAPED COMPONENTS: PROVIDE FACTORY-FABRICATED PIECES NECESSARY FOR COMPLETE INSTALLATION, INCLUDING MITERS, SCUPPERS, AND END CAPS; MINIMUM 14 INCH (355 MM) LONG LEGS ON CORNER PIECES.
  - SCUPPERS: WELDED WATERTIGHT.
  - ACCESSORIES: PROVIDE MATCHING BRICK WALL CAP, DOWNSPOUT, EXTENDERS, AND OTHER SPECIAL FABRICATIONS AS SHOWN ON THE DRAWINGS.
- PARAPET COPINGS: FORMED METAL COPING WITH GALVANIZED STEEL ANCHOR-SUPPORT CLEATS FOR CAPPING ANY PARAPET WALL; WATERTIGHT, MAINTENANCE FREE, WITHOUT EXPOSED FASTENERS; BUTT TYPE JOINTS WITH CONCEALED SPLICE PLATES; MECHANICALLY FASTENED AS INDICATED; FIRESTONE PTOF.
  - WIND PERFORMANCE:
    - AT LEAST THE MINIMUM REQUIRED WHEN TESTED IN ACCORDANCE WITH ANSISPR ES-1 TEST METHOD RE-3, CURRENT EDITION.
  - PROVIDE PRODUCT LISTED IN CURRENT FACTORY MUTUAL RESEARCH CORPORATION APPROVAL GUIDE WITH AT LEAST FM 1-180 RATING.
  - DESCRIPTION: COPING SECTIONS ALLOWED TO EXPAND AND CONTRACT FREELY WHILE LOCKED IN PLACE ON ANCHOR CLEATS BY MECHANICAL PRESSURE FROM HARDENED STAINLESS STEEL SPRINGS FACTORY ATTACHED TO ANCHOR CLEATS; 8 INCH (203 MM) WIDE SPLICE PLATES WITH FACTORY APPLIED DUAL NON-CURING SEALANT STRIPS CAPABLE OF PROVIDING WATERTIGHT SEAL.
  - MATERIAL AND FINISH: 24 GA. THICK FORMED ALUMINUM, CLEAR ANODIZED FINISH; MATCHING CONCEALED JOINT SPLICE PLATES; FACTORY-INSTALLED PROTECTIVE PLASTIC FILM.
  - DIMENSIONS:
    - WALL WIDTH: AS INDICATED ON THE DRAWINGS.
    - PIECE LENGTH: MINIMUM 120 INCHES (3048 MM).
    - CURVED APPLICATION: FACTORY FABRICATED IN TRUE RADIUS.
  - ANCHOR/SUPPORT CLEATS: 20 GAUGE, 0.036 INCH (0.9 MM) THICK PREPUNCHED GALVANIZED CLEAT WITH 12 INCH (305 MM) WIDE STAINLESS STEEL SPRING MECHANICALLY LOCKED TO CLEAT AT 72 INCHES (1829 MM) ON CENTER.
  - SPECIAL SHAPED COMPONENTS: PROVIDE FACTORY-FABRICATED PIECES NECESSARY FOR COMPLETE INSTALLATION, INCLUDING MITERS, CORNERS, INTERSECTIONS, CURVES, PIER CAPS, AND END CAPS; MINIMUM 14 INCH (355 MM) LONG LEGS ON CORNER, INTERSECTION, AND END PIECES.
  - FASTENERS: FACTORY-FURNISHED; ELECTROLYTICALLY COMPATIBLE; MINIMUM PULL OUT RESISTANCE OF 240 POUNDS (109 KG) FOR ACTUAL SUBSTRATE USED; NO EXPOSED FASTENERS.

#### PART 3 INSTALLATION

##### 3.01 GENERAL

- INSTALL ROOFING, INSULATION, FLASHINGS, AND ACCESSORIES IN ACCORDANCE WITH ROOFING MANUFACTURER'S PUBLISHED INSTRUCTIONS AND RECOMMENDATIONS FOR THE SPECIFIED ROOFING SYSTEM. WHERE MANUFACTURER PROVIDES NO INSTRUCTIONS OR RECOMMENDATIONS, FOLLOW GOOD ROOFING PRACTICES AND INDUSTRY STANDARDS, COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- OBTAIN ALL RELEVANT INSTRUCTIONS AND MAINTAIN COPIES AT PROJECT SITE FOR DURATION OF INSTALLATION PERIOD.

##### 3.02 EXAMINATION

- EXAMINE ROOF DECK TO DETERMINE THAT IT IS SUFFICIENTLY RIGID TO SUPPORT INSTALLERS AND THEIR MECHANICAL EQUIPMENT AND THAT DEFLECTION WILL NO STRAIN OR RUPTURE ROOF COMPONENTS OR DEFORM DECK.
- VERIFY THAT SURFACES AND SITE CONDITIONS ARE READY TO RECEIVE WORK. CORRECT DEFECTS IN THE SUBSTRATE BEFORE COMMENCING WITH ROOFING WORK.
- EXAMINE ROOF SUBSTRATE TO VERIFY THAT IT IS PROPERLY SLOPED TO DRAINS.
- VERIFY THAT THE SPECIFICATIONS AND DRAWING DETAILS ARE WORKABLE AND NOT IN CONFLICT WITH THE ROOFING MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS; START OF WORK CONSTITUTES ACCEPTABLE OF PROJECT CONDITIONS AND REQUIREMENTS.
- VERIFY THAT WOOD NAILERS HAVE BEEN PROPERLY INSTALLED.

##### 3.03 PREPARATION

- TAKE APPROPRIATE MEASURES TO ENSURE THAT FUMES FROM ADHESIVE SOLVENTS ARE NOT DRAWN INTO THE BUILDING THROUGH AIR INTAKES.
- FURNISH TO THE ROOFING MANUFACTURER ROOF SURFACE SO THAT IT IS CLEAN, DRY, AND SMOOTH, AND FREE OF SHARP EDGES, FINIS, ROUGHENED SURFACES, LOOSE OR FOREIGN MATERIALS, OIL, GREASE AND OTHER MATERIALS THAT MAY DAMAGE THE MEMBRANE.
- FILL ALL SURFACE VOIDS IN THE IMMEDIATE SUBSTRATE THAT ARE GREATER THAN 1/4 INCH (6 MM) WIDE WITH FILL MATERIAL. ACCEPTABLE INSULATION TO MEMBRANE MANUFACTURER.
- SEAL, GROUT, OR TAPE DECK JOINTS, WHERE NEEDED, TO PREVENT BITUMEN SEEPAGE INTO BUILDING.

##### 3.04 INSULATION AND COVER BOARD INSTALLATION

- INSTALL INSULATION IN CONFIGURATION AND WITH ATTACHMENT METHOD(S) SPECIFIED IN PART 2, UNDER ROOFING SYSTEM.
- INSTALL ONLY AS MUCH INSULATION AS CAN BE COVERED WITH THE COMPLETED ROOFING SYSTEM BEFORE THE END OF THE DAYS WORK OR BEFORE THE ONSET OF INCLEMENT WEATHER.
- LAY ROOF INSULATION IN COURSES PARALLEL TO ROOF EDGES.
- NEATLY AND TIGHTLY FIT INSULATION TO ALL PENETRATIONS, PROJECTIONS, AND NAILERS, WITH GAPS NOT GREATER THAN 1/4 INCH (6 MM). FILL GAPS GREATER THAN 1/4 INCH (6 MM) WITH ACCEPTABLE INSULATION. DO NOT LEAVE THE ROOFING MEMBRANE UNSUPPORTED OVER A SPACE GREATER THAN 1/4 INCH (6 MM).
- LOOSE LAID INSTALLATION: INSTALL INSULATION BY LAYING LOOSE OVER SUBSTRATE WITHOUT MECHANICAL SECUREMENT OF ANY KIND.
- MECHANICAL FASTENING: USING SPECIFIED FASTENERS AND INSULATION PLATES ENGAGE FASTENERS THROUGH INSULATION INTO DECK TO DEPTH AND IN PATTERN REQUIRED BY FACTORY MUTUAL FOR FM GLASS SPECIFIED IN PART 2 AND MEMBRANE MANUFACTURER, WHICHEVER IS MORE STRINGENT.

##### 3.05 ELASTOMERIC MEMBRANE INSTALLATION

- BEGINNING AT LOW POINT OF ROOF, PLACE MEMBRANE WITHOUT STRETCHING OVER SUBSTRATE AND ALLOW TO RELAX AT LEAST 30 MINUTES BEFORE ATTACHMENT OR SPlicing; IN COLDER WEATHER ALLOW FOR LONGER RELAX TIME.
- LAY OUT THE MEMBRANE PIECES SO THAT FIELD AND FLASHING SPLICES ARE INSTALLED TO SHED WATER.
- INSTALL MEMBRANE WITHOUT WRINKLES AND WITHOUT GAPS OR FISH-MOUTHS IN SEAMS; BOND AND TEST SEAMS AND LAPS IN ACCORDANCE WITH MEMBRANE MANUFACTURER'S INSTRUCTIONS AND DETAILS.
- EDGE SECUREMENT: SECURE MEMBRANE AT ALL LOCATIONS WHERE MEMBRANE TERMINATES OR GOES THROUGH AN ANGLE CHANGE GREATER THAN 2 IN 12 INCHES (1:6) USING MECHANICALLY FASTENED REINFORCED PERIMETER FASTENING STRIPS, PLATES, OR METAL EDGING AS INDICATED OR AS RECOMMENDED BY ROOFING MANUFACTURER.
  - EXCEPTIONS: ROUND PIPE PENETRATIONS LESS THAN 18 INCHES (460 MM) IN DIAMETER AND SQUARE PENETRATIONS LESS THAN 4 INCHES (200 MM) SQUARE.
- METAL EDGING IS NOT MERELY DECORATIVE; ENSURE ANCHORAGE OF MEMBRANE AS INTENDED BY ROOFING MANUFACTURER.

##### 3.06 FLASHING AND ACCESSORIES INSTALLATION

- INSTALL FLASHINGS, INCLUDING LAPS, SPLICES, JOINTS, BONDING, ADHESION, AND ATTACHMENT, AS REQUIRED BY MEMBRANE MANUFACTURER'S RECOMMENDATIONS AND DETAILS.
- METAL ACCESSORIES: INSTALL METAL EDGING, GRAVEL STOPS, AND COPINGS IN LOCATIONS INDICATED ON THE DRAWINGS, WITH HORIZONTAL LEG OF EDGE MEMBER OVER MEMBRANE AND FLASHING OVER METAL ONTO MEMBRANE.
  - FOLLOW ROOFING MANUFACTURER'S INSTRUCTIONS.
  - REMOVE PROTECTIVE PLASTIC SURFACE FILM IMMEDIATELY BEFORE INSTALLATION.
  - INSTALL WATER BLOCK SEALANT UNDER THE MEMBRANE FOR ANCHORAGE LEG.
  - FLASH WITH MANUFACTURER'S RECOMMENDED FLASHING SHEET UNLESS OTHERWISE INDICATED.
  - WHERE SINGLE APPLICATION OF FLASHING WILL NOT COMPLETELY COVER THE METAL FLANGE, INSTALL ADDITIONAL PIECE OF FLASHING TO COVER THE METAL EDGE.
  - IF THE ROOF EDGE OVER THE GRAVEL STOP AND SEALANT IS NOT APPLIED BETWEEN THE LAPS IN THE METAL EDGING, INSTALL AN ADDITIONAL PIECE OF SELF-ADHESIVE FLASHING MEMBRANE OVER THE METAL LAP TO THE TOP OF THE GRAVEL STOP; APPLY SEAM EDGE TREATMENT AT THE INTERSECTIONS OF THE TWO FLASHING SECTIONS.
  - WHEN THE ROOF SLOPE IS GREATER THAN 1:12, APPLY SEAM EDGE TREATMENT ALONG THE BACK EDGE OF THE FLASHING.
- SCUPPERS: SET IN SEALANT AND SECURE TO STRUCTURE; FLASH AS RECOMMENDED BY MANUFACTURER.
- ROOFING EXPANSION JOINTS: INSTALL AS SHOWN ON DRAWINGS AND AS RECOMMENDED BY ROOFING MANUFACTURER.
- FLASHING AT WALLS, CURBS, AND OTHER VERTICAL AND SLOPED SURFACES: INSTALL WEATERTIGHT FLASHING AT ALL WALLS, CURBS, PARAPETS, CURBS, SKYLIGHTS, AND OTHER VERTICAL AND SLOPED SURFACES THAT THE ROOFING MEMBRANE ABUTS TO; EXTEND FLASHING AT LEAST 8 INCHES (200 MM) HIGH ABOVE MEMBRANE SURFACE.
  - USE THE LONGEST PRACTICAL FLASHING PIECES.
  - EVALUATE THE SUBSTRATE AND OVERLAY AND ADJUST INSTALLATION PROCEDURE IN ACCORDANCE WITH MEMBRANE MANUFACTURER'S RECOMMENDATIONS.
  - COMPLETE THE SPLICE BETWEEN FLASHING AND THE MAIN ROOF SHEET WITH SPECIFIED SPLICE ADHESIVE BEFORE ADHERING FLASHING TO THE VERTICAL SURFACE.
  - PROVIDE TERMINATION DIRECTLY TO THE VERTICAL SUBSTRATE AS SHOWN ON ROOF DRAWINGS.
- ROOF DRAINS:
  - TAPER INSULATION AROUND DRAIN TO PROVIDE SMOOTH TRANSITION FROM ROOF SURFACE TO DRAIN. USE SPECIFIED PRE-MANUFACTURED TAPERED INSULATION WITH FACER OR SUITABLE BONDING SURFACE TO ACHIEVE SLOPE; SLOPE NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS.
  - POSITION MEMBRANE, THEN CUT A HOLE FOR ROOF DRAIN TO ALLOW 1/2 TO 3/4 INCH (12 TO 19 MM) OF MEMBRANE TO EXTEND INSIDE CLAMPING RING PAST DRAIN BOLT.
  - MAKE ROUND HOLES IN MEMBRANE TO ALIGN WITH CLAMPING BOLTS; DO NOT CUT MEMBRANE BACK TO BOLT HOLES.
  - APPLY SEALANT ON TOP OF DRAIN BOWL WHERE CLAMPING RING SEATS BELOW THE MEMBRANE
  - INSTALL ROOF DRAIN CLAMPING RING AND CLAMPING BOLTS; TIGHTEN CLAMPING BOLTS TO ACHIEVE CONSTANT COMPRESSION.
  - FLASHING AT PENETRATIONS: FLASH ALL PENETRATIONS PASSING THROUGH THE MEMBRANE; MAKE FLASHING SEALS DIRECTLY TO THE PENETRATION.
- PIPES, ROUND SUPPORTS, AND SIMILAR ITEMS: FLASH WITH SPECIFIED PRE-MOLDED PIPE FLASHINGS WHENEVER PRACTICAL; OTHERWISE USE SPECIFIED SELF-CURING ELASTOMERIC FLASHING.
  - PIPE CLUSTERS AND UNUSUAL SHAPED PENETRATIONS: PROVIDE PENETRATION POCKET AT LEAST 2 INCHES (50 MM) DEEP, WITH AT LEAST 1 INCH (25 MM) CLEARANCE FROM PENETRATION, SLOPED TO SHED WATER.
  - STRUCTURAL STEEL TUBING: IF CORNER RADI ARE GREATER THAN 1/4 INCH (6 MM) AND LONGEST SIDE OF TUBE DOES NOT EXCEED 12 INCHES (305 MM), FLASH AS FOR PIPES; OTHERWISE, PROVIDE A STANDARD CURB WITH FLASHING.
  - FLEXIBLE AND MOVING PENETRATIONS: PROVIDE WEATERTIGHT GOOSENECK SET IN SEALANT AND SECURED TO DECK, FLASHED AS RECOMMENDED BY MANUFACTURER.
  - HIGH TEMPERATURE SURFACES, WHERE THE IN-SERVICE TEMPERATURE IS, OR IS EXPECTED TO BE, IN EXCESS OF 180 DEGREES F (82 DEGREES C): PROTECT THE ELASTOMERIC COMPONENTS FROM DIRECT CONTACT WITH THE HOT SURFACES USING AN INTERMEDIATE INSULATED SLEEVE AS FLASHING SUBSTRATE AS RECOMMENDED BY MEMBRANE MANUFACTURER.

##### 3.07 FINISHING AND WALKWAY INSTALLATION

- INSTALL WALKWAYS AT ACCESS POINTS TO THE ROOF, AROUND ROOFTOP EQUIPMENT THAT MAY REQUIRE MAINTENANCE, AND WHERE INDICATED ON THE DRAWINGS.
- WALKWAY PADS: ADHERE TO THE ROOFING MEMBRANE, SPACING EACH PAD AT MINIMUM OF 1.0 INCH (25 MM) AND MAXIMUM OF 3.0 INCHES (76 MM) FROM EACH OTHER TO ALLOW FOR DRAINAGE.
- DO NOT START WORK UNTIL PRE-INSTALLATION NOTICE HAS BEEN SUBMITTED TO MANUFACTURER AS NOTIFICATION THAT THIS PROJECT REQUIRES A MANUFACTURER'S WARRANTY.
- PERFORM WORK USING COMPETENT AND PROPERLY EQUIPPED PERSONNEL.
- TEMPORARY CLOSURES, WHICH ENSURE THAT MOISTURE DOES NOT DAMAGE ANY COMPLETED SECTION OF THE NEW ROOFING SYSTEM, ARE THE RESPONSIBILITY OF THE APPLICATOR. COMPLETION OF FLASHINGS, TERMINATIONS, AND TEMPORARY CLOSURES SHALL BE COMPLETED AS REQUIRED TO PROVIDE A WATERTIGHT CONDITION.
- INSTALL ROOFING MEMBRANE ONLY WHEN SURFACES ARE CLEAN, DRY, SMOOTH AND FREE OF SNOW OR ICE; DO NOT APPLY ROOFING MEMBRANE DURING INCLEMENT WEATHER OR WHEN AMBIENT CONDITIONS WILL NOT ALLOW PROPER APPLICATION; CONSULT MANUFACTURER FOR RECOMMENDED PROCEDURES DURING COLD WEATHER. DO NOT WORK WITH SEALANTS AND ADHESIVES WHEN MATERIAL TEMPERATURE IS OUTSIDE THE RANGE OF 60 TO 80 DEGREES F (15 TO 25 DEGREES C).
- PROTECT ADJACENT CONSTRUCTION, PROPERTY, VEHICLES, AND PERSONS FROM DAMAGE RELATED TO ROOFING WORK; REPAIR OR RESTORE DAMAGE CAUSED BY ROOFING WORK.
  - PROTECT FROM SPLILLS AND OVERSPRAY FROM BITUMEN, ADHESIVES, SEALANTS AND COATINGS.
  - PARTICULARLY PROTECT METAL, GLASS, PLASTIC, AND PAINTED SURFACES FROM BITUMEN, ADHESIVES, AND SEALANTS WITHIN THE RANGE OF WIND-BORNE OVERSPRAY.
  - PROTECT FINISHED AREAS OF THE ROOFING SYSTEM FROM ROOFING RELATED WORK TRAFFIC AND TRAFFIC BY OTHER TRADES.
- UNTIL READY FOR USE, KEEP MATERIALS IN THEIR ORIGINAL CONTAINERS AS LABELED BY THE MANUFACTURER.
- CONSULT MEMBRANE MANUFACTURER'S INSTRUCTIONS, CONTAINER LABELS, AND MATERIAL SAFETY DATA SHEETS (MSDS) FOR SPECIFIC SAFETY INSTRUCTIONS. KEEP ALL ADHESIVES, SEALANTS, PRIMERS AND CLEANING MATERIALS AWAY FROM ALL SOURCES OF IGNITION.
  - IF INSTALLATION OF WALKWAY PADS OVER FIELD FABRICATED SPLICES OR WITHIN 6 INCHES (150 MM) OF A SPLICE EDGE CANNOT BE AVOIDED, ADHERE ANOTHER LAYER OF FLASHING OVER THE SPLICE AND EXTENDING BEYOND THE WALKWAY PAD A MINIMUM OF 6 INCHES (150 MM) ON EITHER SIDE.
  - PRIME THE MEMBRANE; REMOVE THE RELEASE PAPER ON THE PAD, PRESS IN PLACE, AND WALK ON PAD TO ENSURE PROPER ADHESION.

##### 3.08 FIELD QUALITY CONTROL

- INSPECTION BY MANUFACTURER: PROVIDE FINAL INSPECTION OF THE ROOFING SYSTEM BY A TECHNICAL REPRESENTATIVE EMPLOYED BY ROOFING SYSTEM MANUFACTURER SPECIFICALLY TO INSPECT INSTALLATION FOR WARRANTY PURPOSES (I.E. NOT A SALES PERSON).
- PERFORM ALL CORRECTIONS NECESSARY FOR ISSUANCE OF WARRANTY.

##### 3.09 CLEANING

- CLEAN ALL CONTAMINANTS GENERATED BY ROOFING WORK FROM BUILDING AND SURROUNDING AREAS, INCLUDING BITUMEN, ADHESIVES, SEALANTS, AND COATINGS.
- REPAIR OR REPLACE BUILDING COMPONENTS AND FINISHED SURFACES DAMAGED OR DEFACED DUE TO THE WORK OF THIS SECTION; COMPLY WITH RECOMMENDATIONS OF MANUFACTURERS OF COMPONENTS AND SURFACES.
- REMOVE LEFTOVER MATERIALS, TRASH, DEBRIS, EQUIPMENT FROM PROJECT SITE AND SURROUNDING AREAS.

##### 3.10 PROTECTION

- WHERE CONSTRUCTION TRAFFIC MUST CONTINUE OVER FINISHED ROOF MEMBRANE, PROVIDE DURABLE PROTECTION AND REPLACE OR REPAIR DAMAGED ROOFING TO ORIGINAL CONDITION.

##### END OF SECTION

NOTE: TRACTOR SUPPLY COMPANY REQUIRES  
THE ROOFING MEMBRANE TO BE WHITE

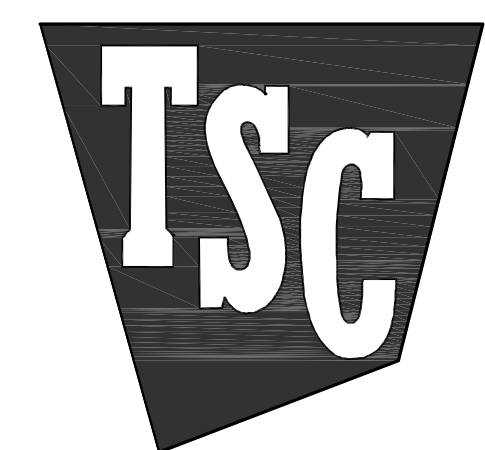




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Job Number: 2485

Date: 01.20.2025

Revisions:

Revisions:

Revisions: LIFE SAFETY / FIXTURE PLAN

Sheet Number: A8.0

## MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

2021 IBC - TABLE 1004.5

FUNCTION OF SPACE	FLOOR AREA IN SQ. FT. PER OCCUPANT
BUSINESS AREAS	150 GROSS
MERCANTILE STORAGE, STOCK, SHIPPING AREAS	60 GROSS 300 GROSS

## EGRESS WIDTH PER OCCUPANT LOAD

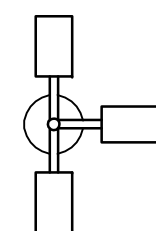
2021 IBC - SECTION 1005.3.2

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

2021 IBC - TABLE 1017.2

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



FENCED OUTDOOR DISPLAY AREA

## PROJECT DATA

THIS PROJECT IS BASED ON THE REQUIREMENTS OF THE LOUISIANA UNIFORM CONSTRUCTION CODE WHICH INCLUDE THE FOLLOWING W/ AMENDMENTS:

2021 INTERNATIONAL BUILDING CODE  
2021 INTERNATIONAL ENERGY CONSERVATION CODE  
2021 INTERNATIONAL PLUMBING CODE  
2021 INTERNATIONAL MECHANICAL CODE  
2021 INTERNATIONAL FUEL AND GAS CODE  
2020 NFPA 101 LIFE SAFETY CODE  
2020 NATIONAL ELECTRIC CODE

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

CONSTRUCTION TYPE: IIB

FIRE SUPPRESSION: SPRINKLERED

### BUILDING AREA LIMITS

		OCCUPANCY LOAD
RETAIL SALES	= 15,416 SQ. FT. / 60	= 256.9 OR 257
OFFICE CORE & WALLS	= 1,422 SQ. FT. / 150	= 9.48 OR 10
STOCKROOM	= 4,884 SQ. FT. / 300	= 16.21 OR 17
TOTAL BUILDING AREA	= 21,702 SQ. FT.	

TOTAL OCCUPANT LOAD = 284

BUILDING HEIGHT: 1 STORY - 21'-4" A.F.F. @ FRONT MASONRY WALL, 30'-0" @ GABLE FACADE

ALLOWABLE AREA CALCULATIONS:

A<sub>s</sub> = A<sub>1</sub> + (A<sub>2</sub> x 1/5) + (A<sub>3</sub> x 1/3)

A<sub>s</sub> = 12,500 + (12,500 x 0) + (12,500 x 3)

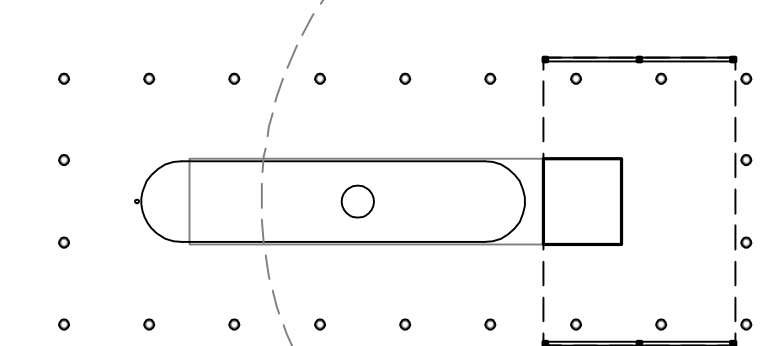
A<sub>s</sub> = 12,500 + 0 + 37,500

A<sub>s</sub> = 50,000 SQ. FT.

A<sub>s</sub> = 50,000 SQ. FT. > 21,702 SQ. FT.

## LIFE SAFETY DATA

ITEM	REQUIRED	PROVIDED
EXIT / EGRESS	284 X 0.15 = 43"	216"
MAX. TRAVEL DISTANCE	250'-0"	219'-0"
NUMBER OF SALES EXITS	2	3
NUMBER OF TENANT EXITS	3	4
MIN. EXIT SEPARATION	70'-5"	89'-11"



PERMANENT SIDEWALK  
DISPLAY AREA  
976 SQ. FT.

PERMANENT SIDEWALK  
DISPLAY AREA  
592 SQ. FT.

PERMANENT SIDEWALK  
DISPLAY AREA  
1,190 SQ. FT.

PERMANENT SIDEWALK  
DISPLAY AREA  
996 SQ. FT.

## FIXTURE/LIFE SAFETY PLAN

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

KNOX BOX CAN BE PROVIDED FOR KEYED 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

### WAREHOUSE 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.

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

21'-11" X 1'-3" SEE DETAIL - 26'-5"  
MINIMUM REQUIRED EXIT SEPARATION DISTANCE

MAXIMUM TRAVEL DISTANCE FROM POINT 'A' TO POINT 'B' = 219'-0"

89'-11" SEE DETAIL - 26'-5"  
MINIMUM REQUIRED EXIT SEPARATION DISTANCE

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

EGRESS WIDTH = 89' / 0.15  
OCCUPANT LOAD PER DOOR = 660

EGRESS WIDTH = 80' / 0.15  
OCCUPANT LOAD PER DOOR = 533

KNOX BOX TO BE PROVIDED FOR KEYED ENTRY @ DOOR A FOR FIRE DEPARTMENT

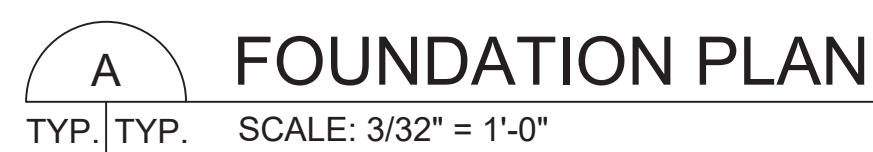




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	STRUCTURAL SHEET INDEX
SHEET NO.	SHEET NAME
S1.0	FOUNDATION PLAN
S2.0	ROOF FRAMING PLAN
S2.1	ROOF FRAMING PLAN, CONT.
S3.0	STRUCTURAL DETAILS
S3.1	STRUCTURAL DETAILS
S3.2	STRUCTURAL DETAILS
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S4.1	STRUCTURAL DETAILS
S4.2	STRUCTURAL DETAILS
S5.0	GENERAL NOTES
S5.1	GENERAL NOTES
S5.2	GENERAL NOTES
S5.3	ABBREVIATIONS & WIND LOADS
S5.4	CONCRETE SPECIFICATIONS

**LEGEND:**

 CLASS B TIMBER PILE

 PILE C/L

 COLUMN C/L

NOTE:  
1. SEE S3.1 FOR PILE CAP PC-4 PLAN AND DETAILS  
2. ALL PILES ARE 55' LONG TREATED TIMBER (0.8CCA)  
MEETING ASTM D25 SPECIFICATIONS.

NOTE:

1. UNDERCUT, FILL, PREPARE, TEST, AND REMEDIATE ALL SUBGRADE AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
2. VERIFY SOIL BELOW SLAB AND FOOTINGS WITH GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. SEE GEOTECHNICAL REPORT.
3. PILES LOCATED MORE THAN 3" OUTSIDE OF DESIGNATED LOCATION ON PLAN AFTER DRIVING SHALL BE REPORTED TO E.O.R. IMMEDIATELY. ADDITIONAL ANALYSIS MAY BE REQUIRED.

 FOUNDATION PLAN

SCALE: 3/32" = 1'-0"

NOTES:

1. TOP OF FOOTING:
  - A. EXTERIOR GRADE BEAM = -24" MINIMUM BELOW FINISH FLOOR OR GRADE, WHICHEVER IS LOWER.
  - B. ALL BUILDING FOUNDATIONS ARE DESIGNED TO BEAR ON TIE PILES. 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. DOWELS SHOWN ON PLAN INDICATE GROUT FILLED REINFORCED CORES, SEE DETAIL 8 / S3.0 & 10 / S3.0
4. SEE 6 / S3.0 & 7 / S3.0 FOR ADDITIONAL REINFORCING AT WALL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
5. SEE DETAILS 4 / S4.2 , 5 / S4.2 , AND 6 S4.2 FOR FOOTING CONDITIONS ADJACENT TO PLUMBING, ELECTRICAL, AND FIRE PROTECTION SYSTEMS.

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FOUNDATION PL

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S1.







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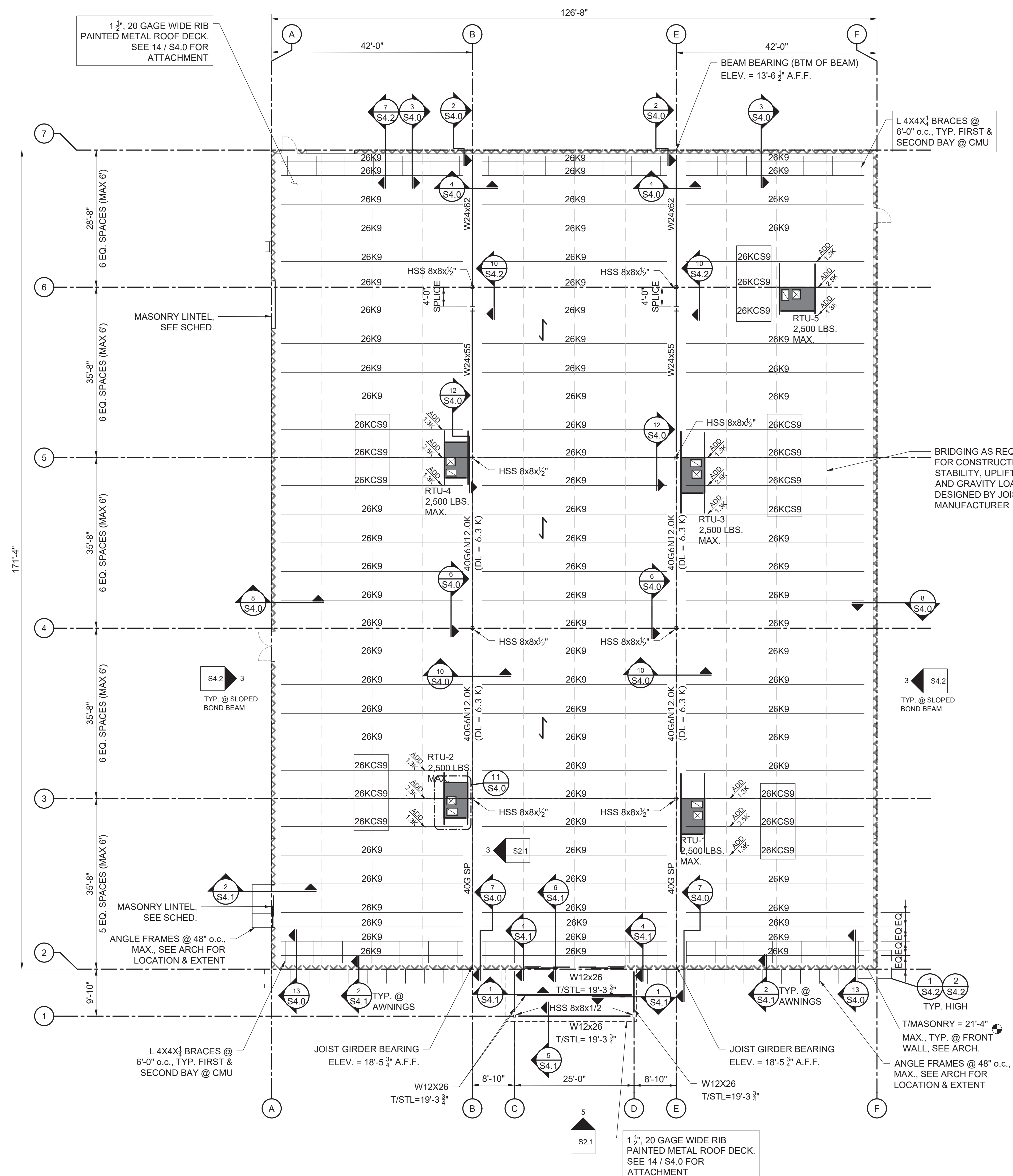
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Sheet Number: **\$2.0**

 **FRAMING PLAN**  
TYP. TYP. SCALE: 3/32" = 1'-0"



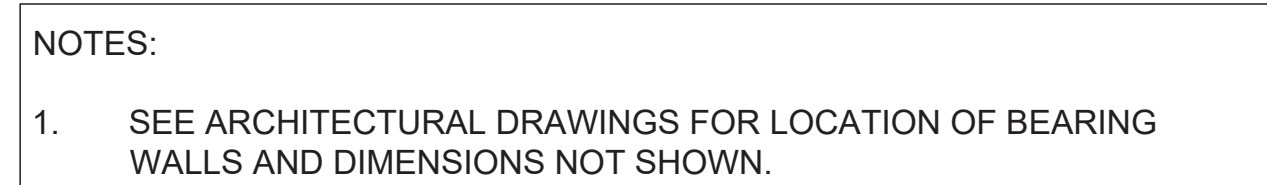




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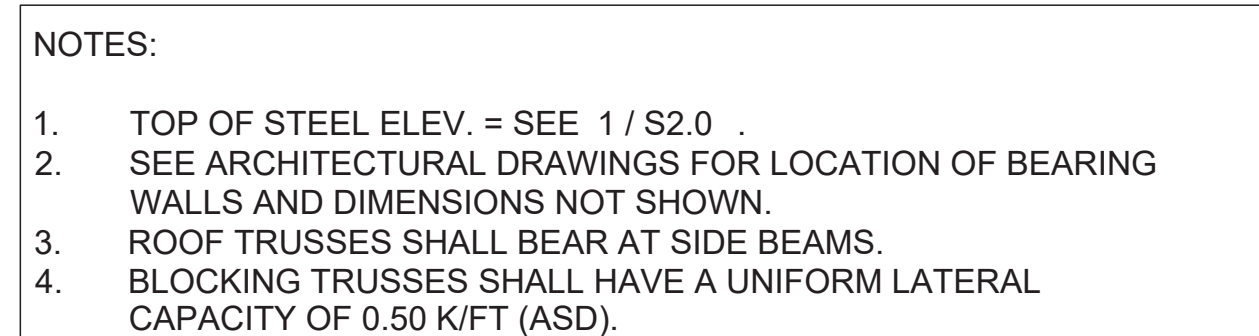


1 LOW ENTRY FRAMING PLAN  
TYP. TYP. SCALE: 1/8" = 1'-0"

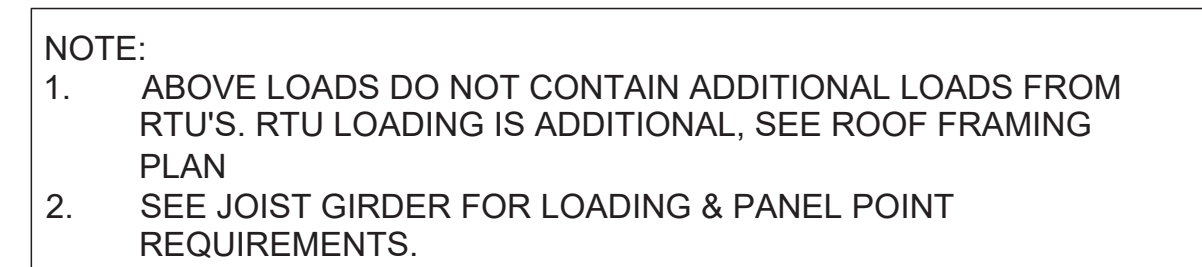


OPENINGS UP TO 6'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
8" BLOCK	8" x 8" BOND BM. w/ 1-#6, TOP & BTM.	
OPENINGS 6'-1" TO 8'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
8" BLOCK	8" x 16" BOND BM. w/ 1-#6, TOP & BTM.	
OPENINGS 8'-1" TO 10'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
8" BLOCK	8" x 24" BOND BM. w/ 2-#6's TOP, 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

# TYP. | TYP. INTEL SCHEDULE --- NOT TO SCALE



2 HIGH ENTRY FRAMING PLAN  
TYP. TYP. SCALE: 1/8" = 1'-0"



3 40G SP LOAD DIAGRAM  
TYP. | TYP. SCALE: 1/8" = 1'-0"



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ROOF FRAMING PLAN, CONT.

Sheet Number: \$2.





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STRUCTURAL DATA

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S3

\* PROVIDE STANDARD AC1 180 DEG HOOK WHERE MIN. BAR EXTENSION PAST EDGE OF OPENINGS IS NOT POSSIBLE.

NOTE:  
NOTIFY ENGINEER OF RECORD IN WRITING OF OPENINGS NOT SHOWN  
ON PLANS OR OF CONDITIONS NOT COVERED BY THESE DETAILS

THESE BOND BEAMS APPLY TO WALLS WHERE BOND BEAMS ARE NOT SPECIFICALLY REFERENCED. REFER TO THE SECTIONS & DETAILS FOR SPECIAL BOND BEAMS THAT ARE REQUIRED.

FILL FOR BOND BEAMS SHALL BE COARSE GROUT-REFER TO GENERAL NOTES FOR INFORMATION.

NOTES:

1. SEE ARCH. FOR EXACT LOCATION OF CONTROL JOINTS
2. DO NOT LOCATE CONTROL JOINTS WITHIN 2'-0" OF OPENINGS OR EXTERIOR CORNERS.
3. HORIZ. REINFORCING STEEL IN BOND BEAMS SHALL BE CONTINUOUS ACROSS JOINTS.
4. VERT. REINFORCEMENT SHALL EXTEND INTO FTG

NOTES:

1. SEE ARCH. FOR EXACT LOCATION OF CONTROL JOINTS
2. DO NOT LOCATE CONTROL JOINTS WITHIN 2'-0" OF OPENINGS OR EXTERIOR CORNERS.
3. HORIZ. REINFORCING STEEL IN BOND BEAMS SHALL BE CONTINUOUS ACROSS JOINTS.
4. VERT. REINFORCEMENT SHALL EXTEND INTO FTG.

\*PER LAP SCHED.  
SEE GEN. NOTES  
BAR IN CENTER OF  
WALL TYP. U.N.O.

**NOTE 1:**  
USE 4'-0" LIF  
FOR BAR SIZE  
#5 THRU #6

FILL ALL CELLS  
SOLID WITH  
GROUT THAT  
REQUIRE VER

OWELS TO MATCH  
ERT. REINF.. U.N.

NOTE: ALL HORIZ. REINF. SHALL BE  
DISCONTINUED THRU ALL  
CONTROL JOINTS.

Diagram showing vertical reinforcement bars with labels: VERT. REINF, EQ, CLEAR, and VERT. BAR POSITIONERS AT BAR DIA. VERTICAL.

---





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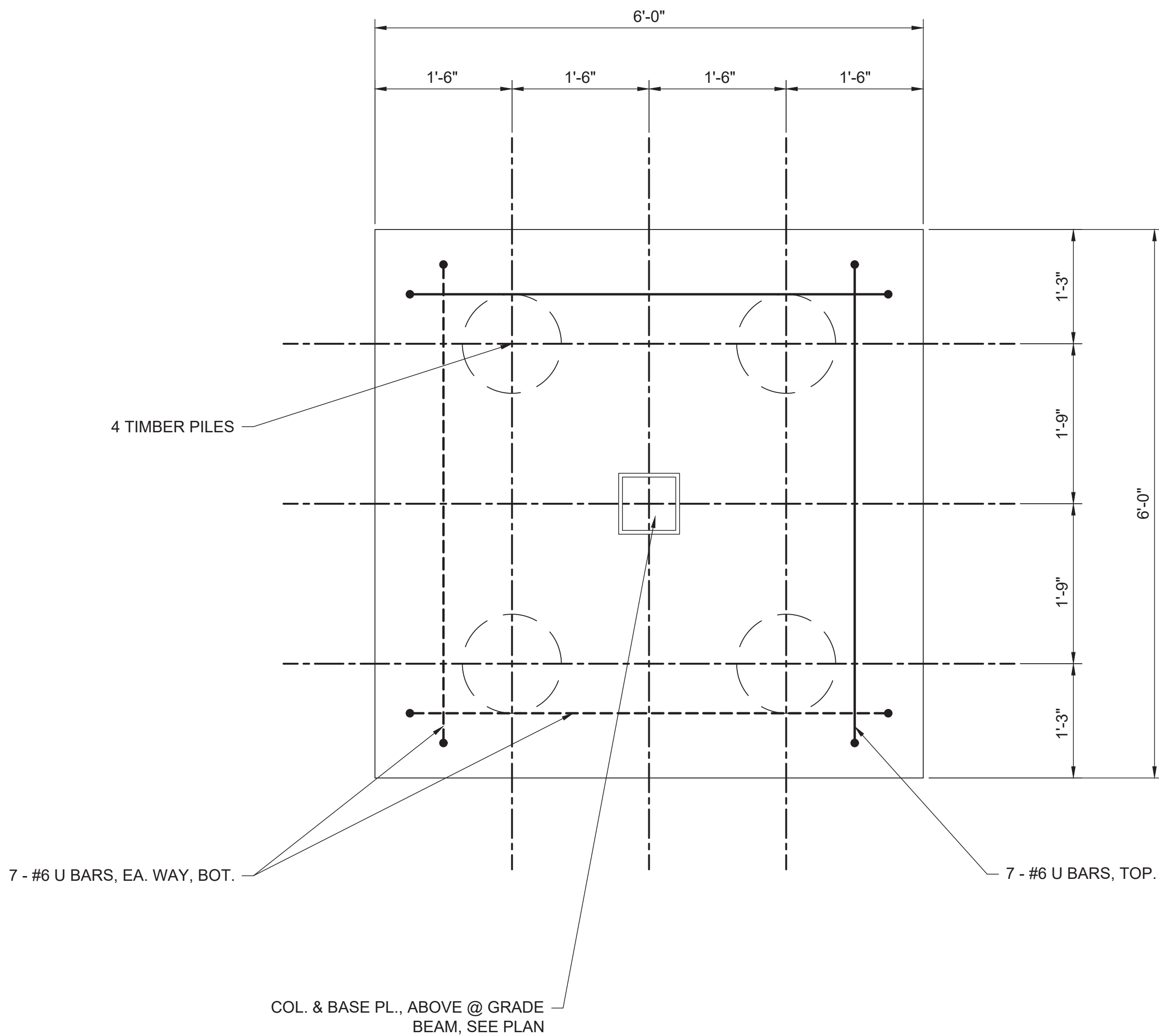
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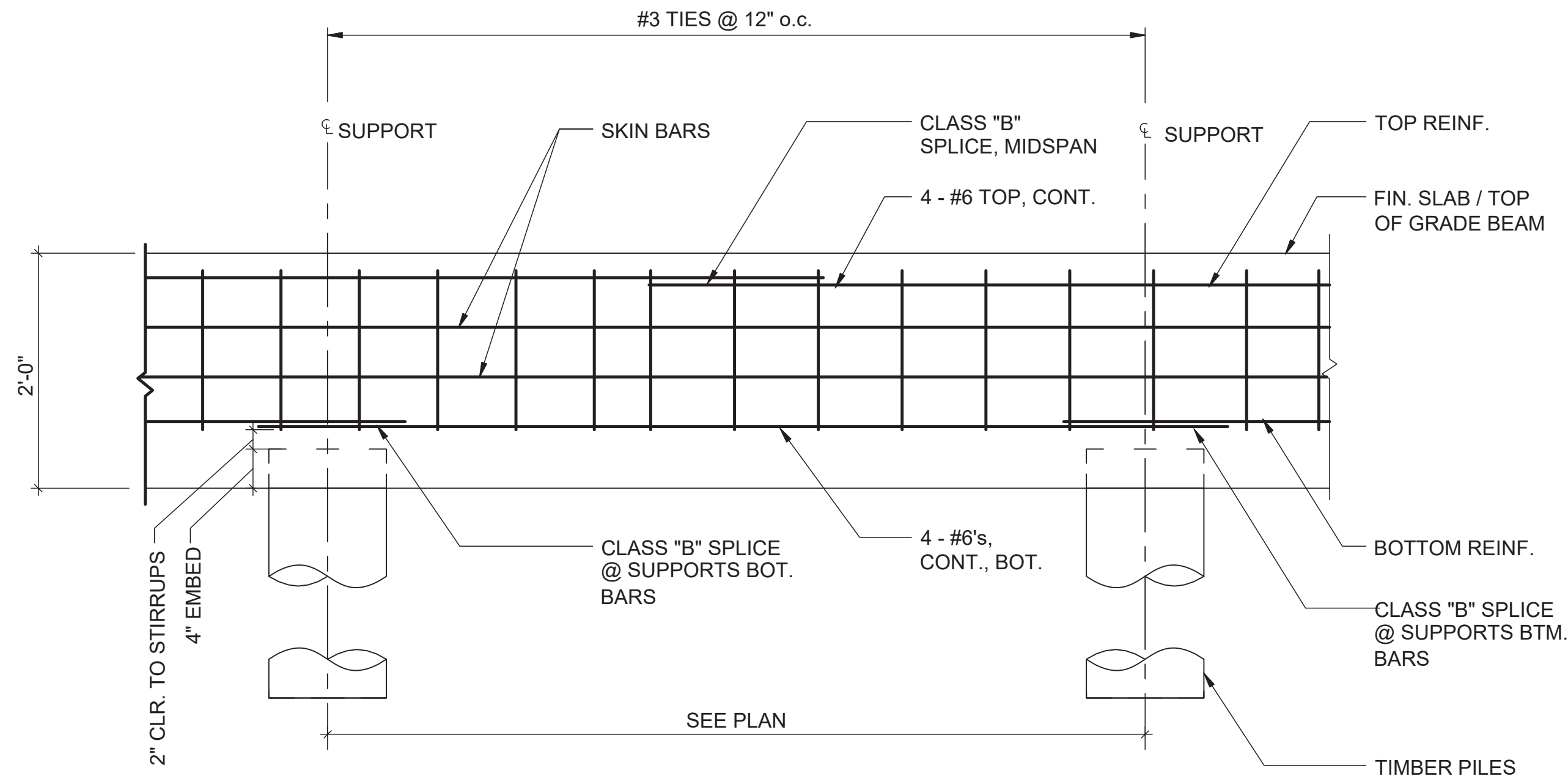
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STRUCTURAL DETAILS

Sheet Number: S3.1

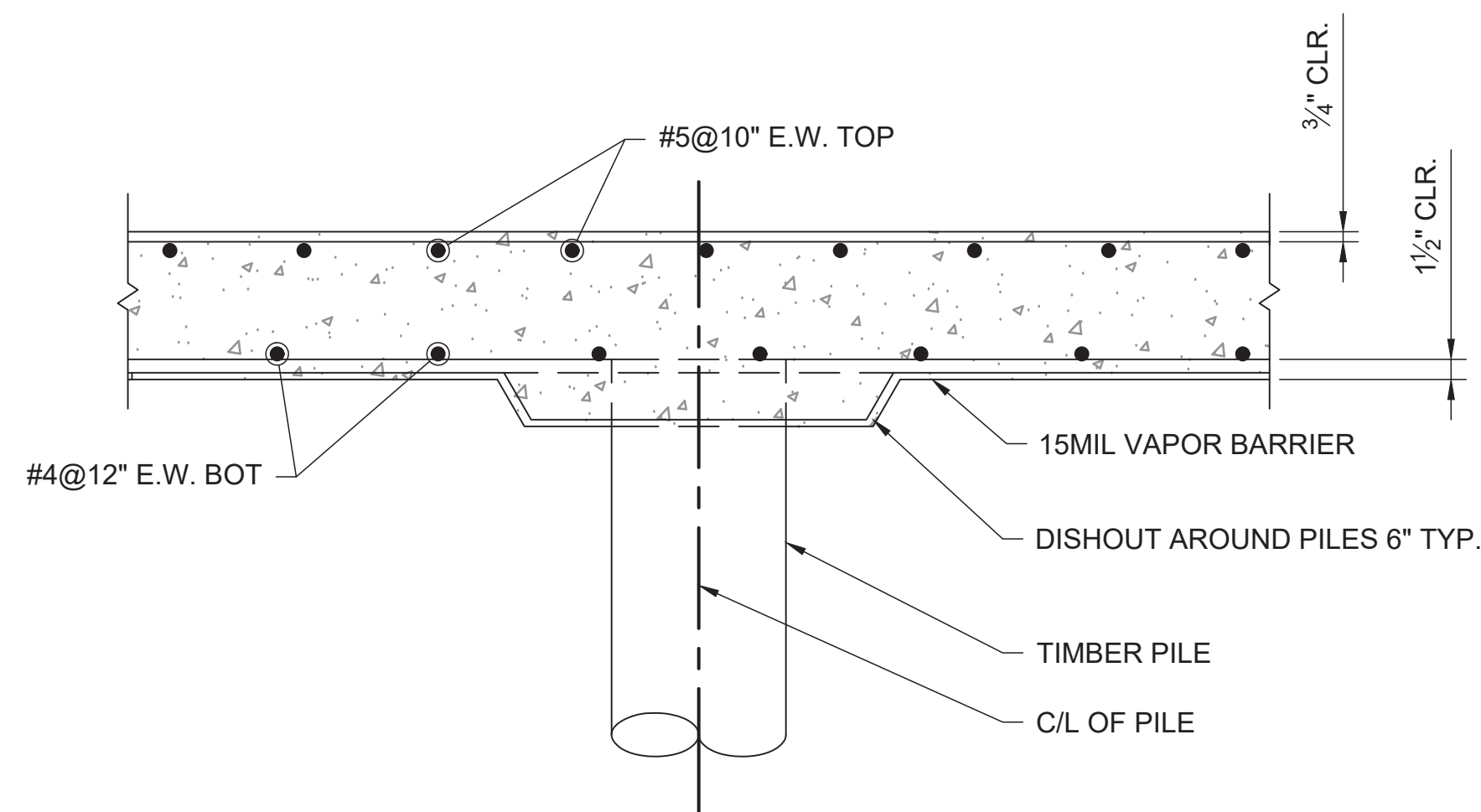


1 PILE CAP PC-4 - 30" THICK  
TYP. TYP. SCALE: 1" = 1'-0"

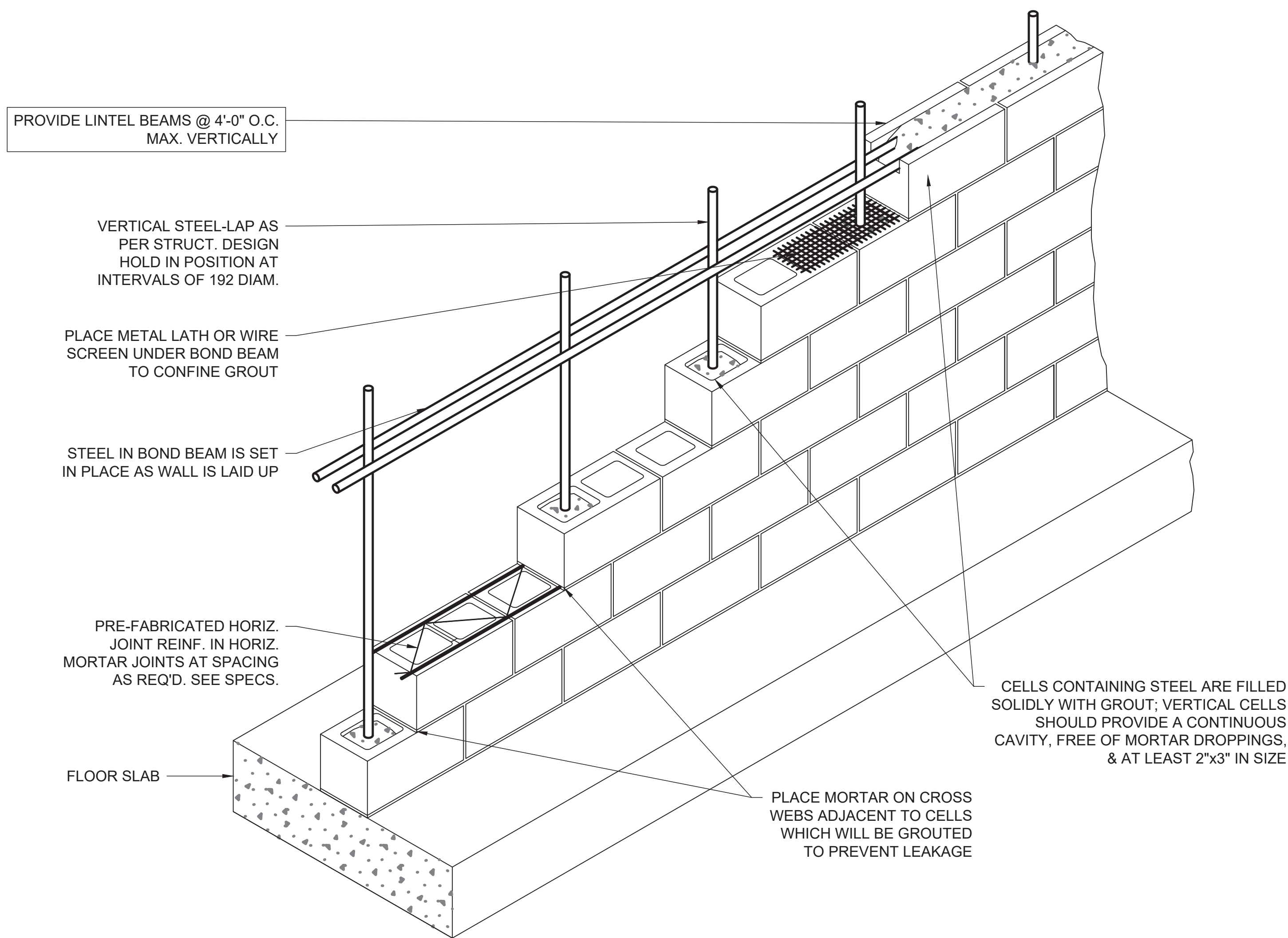


NOTE:  
1. SEE DETAIL 2 / S3.0  
2. ALL CORNERS, SIDES, EDGES, SHALL BE SMOOTH FORMED. NO EXCESS CONCRETE SPILLAGE, MUSHROOM, ETC., ALLOWED. SEE GEOTECHNICAL REPORT.

2 TYPICAL EXTERIOR GRADE BEAM REINFORCEMENT DIAGRAM  
TYP. TYP. SCALE: 1" = 1'-0"



3 SECTION  
S1.0 S3.1 SCALE: 1" = 1'-0"



4 TYP. REINF. CONC. MASONRY CONSTRUCTION  
TYP. TYP. SCALE: 1" = 1'-0"





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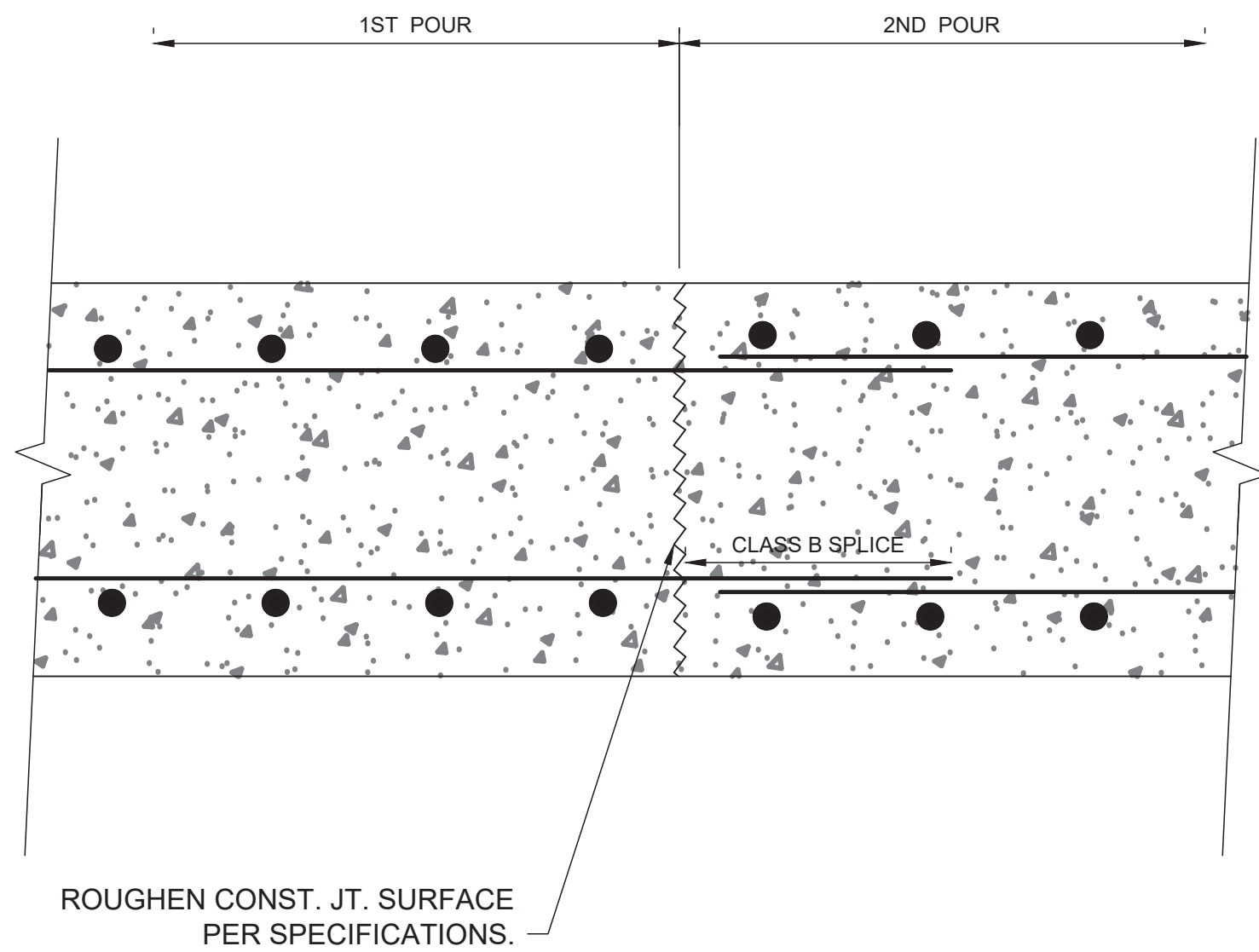
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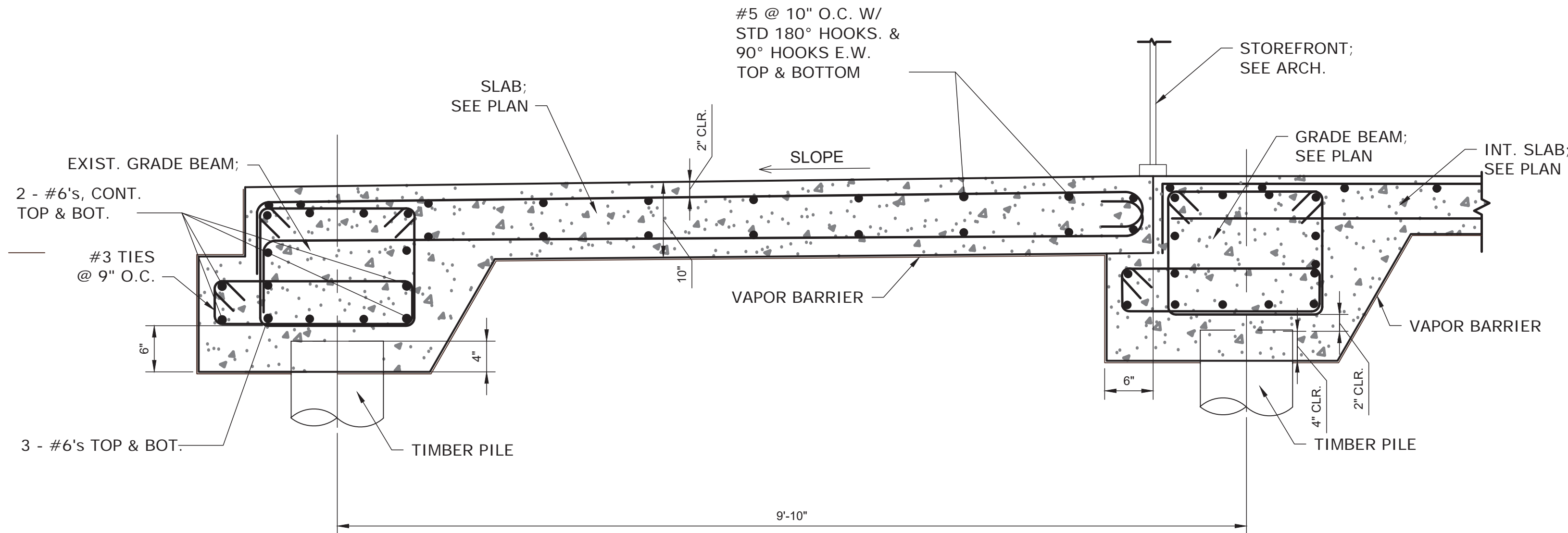
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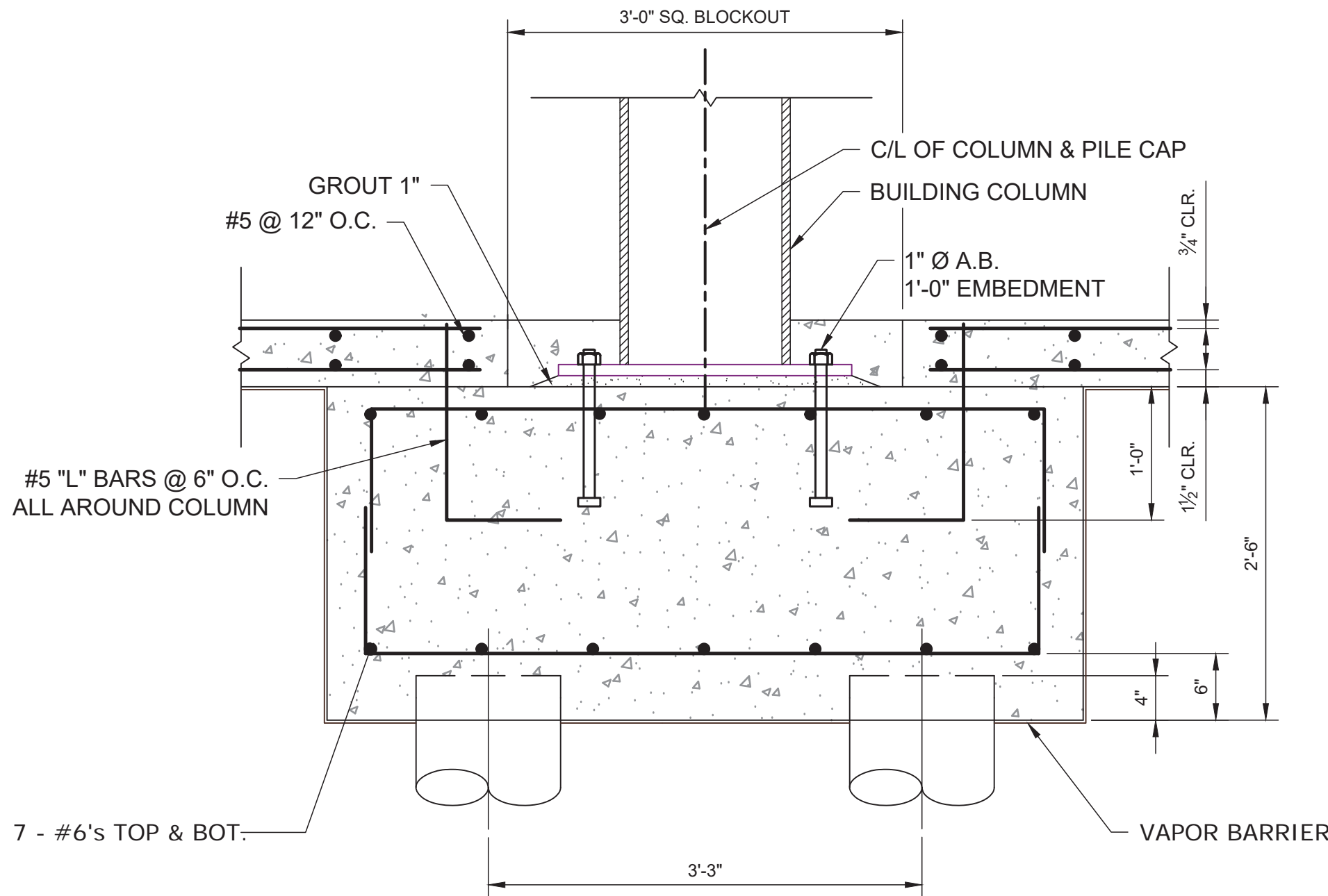
Sheet Number: S3.2



1 CONSTRUCTION JOINT (CJ) (VERTICAL PLANE)  
TYP. TYP. 1/2" = 1'-0"

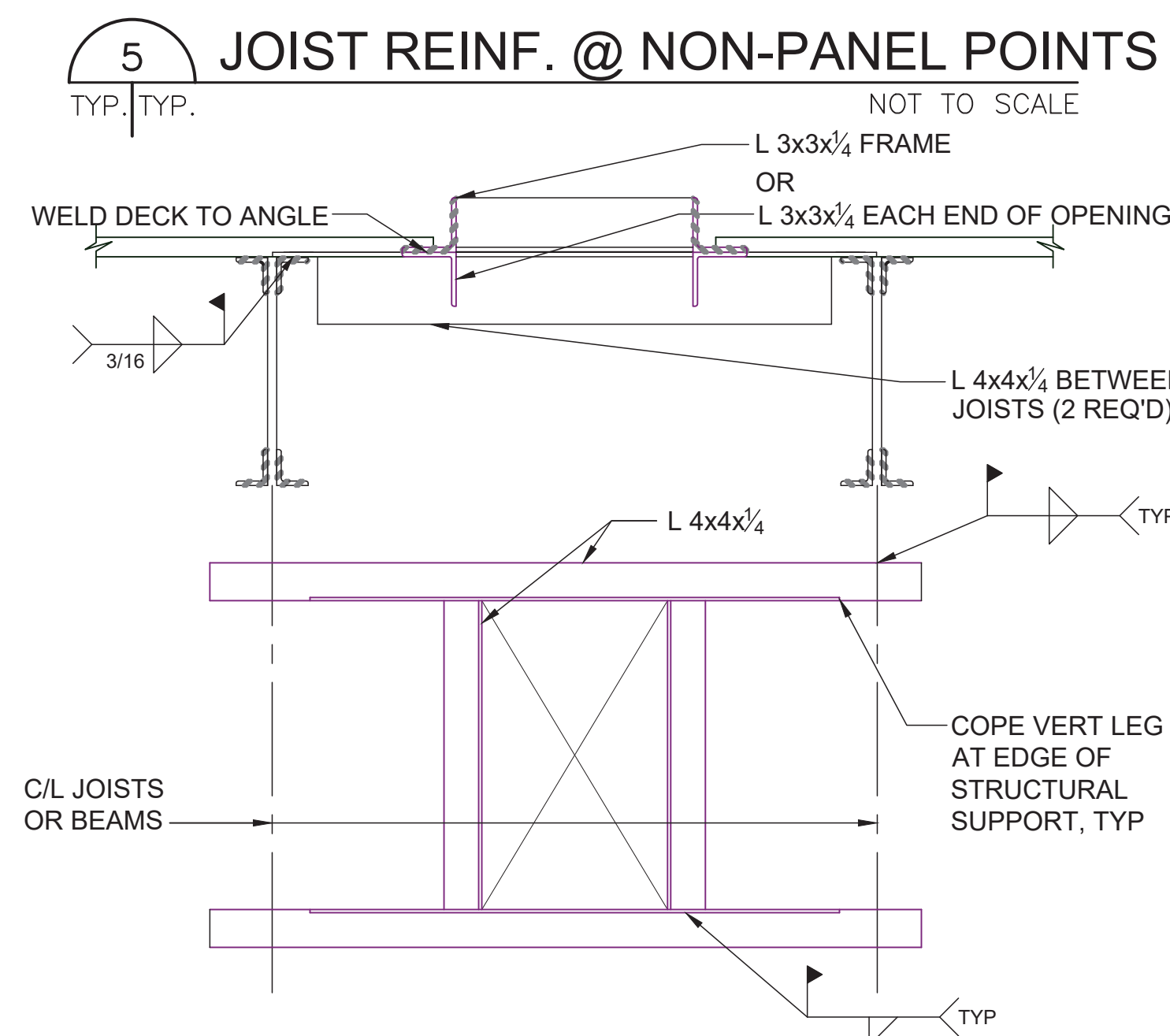


2 SECTION @ STOREFRONT  
S1.0 S3.2 SCALE: 1" = 1'-0"



3 SECTION @ INTERIOR COLUMN  
S1.0 S3.2 SCALE: 1" = 1'-0"





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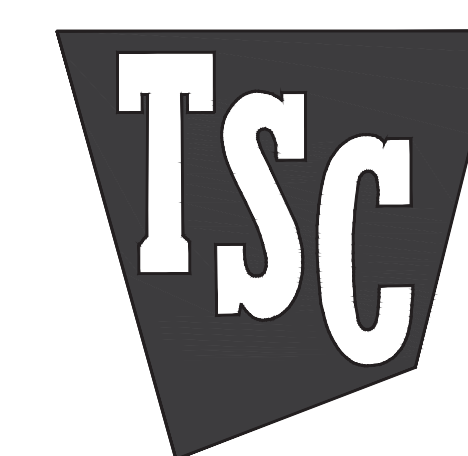
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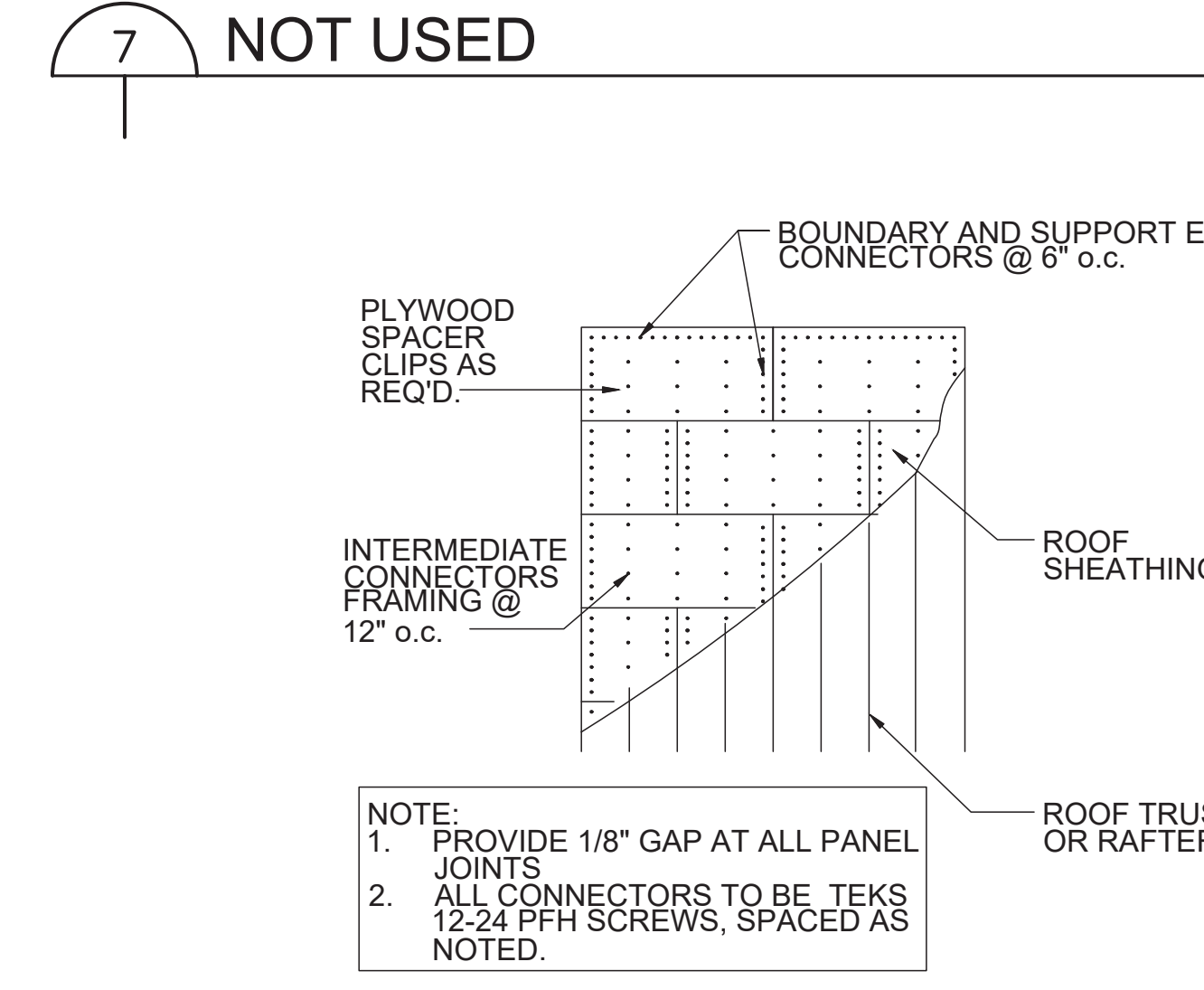
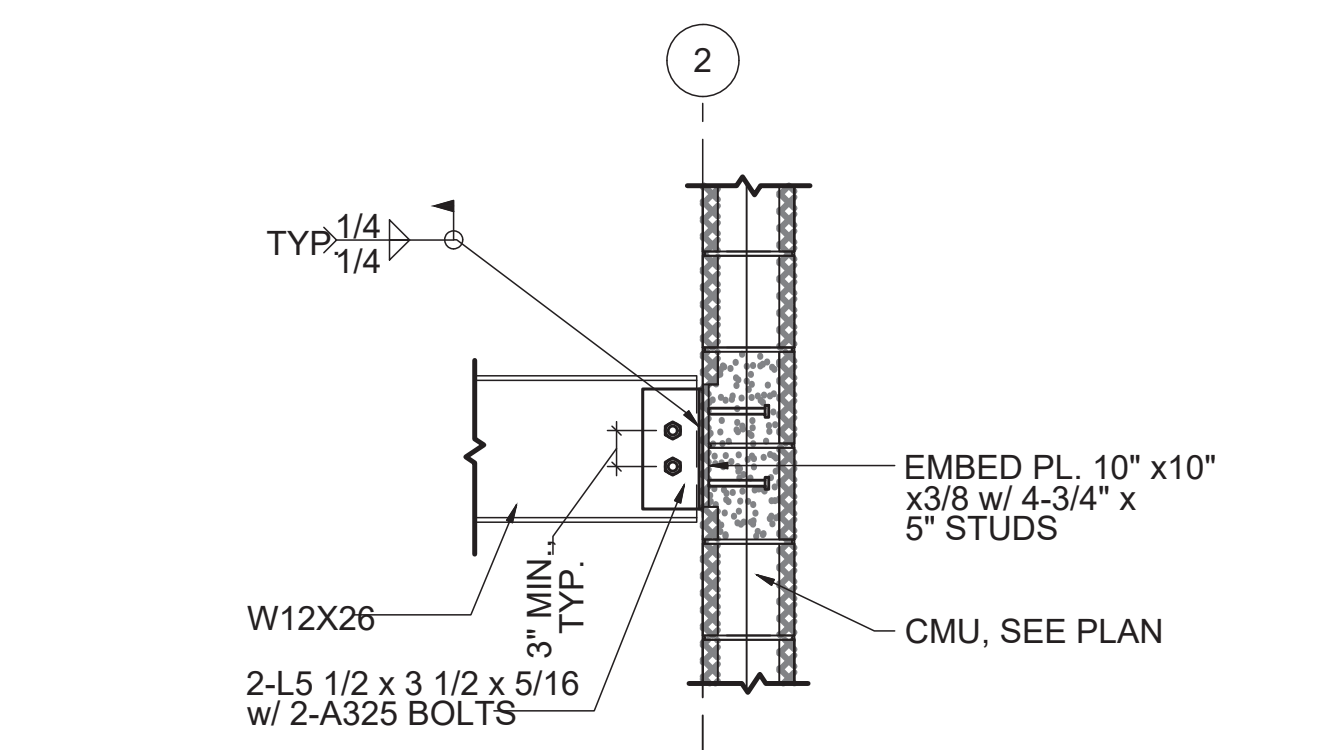
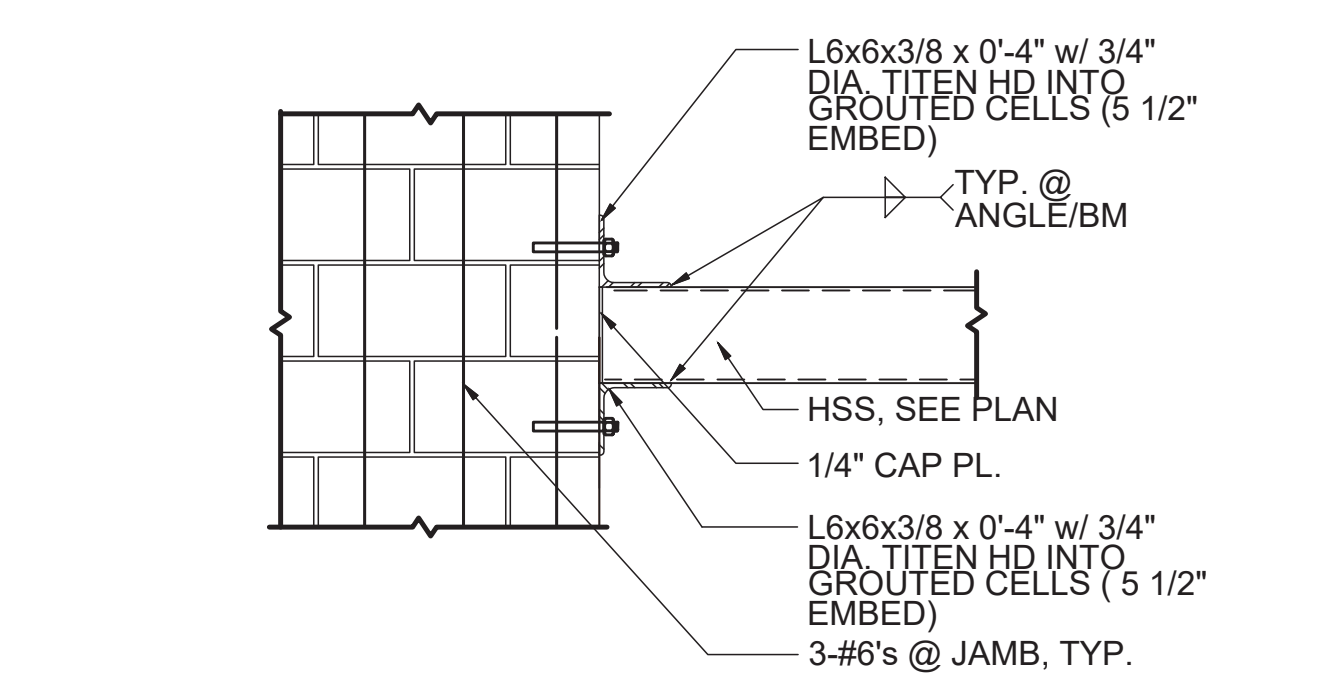
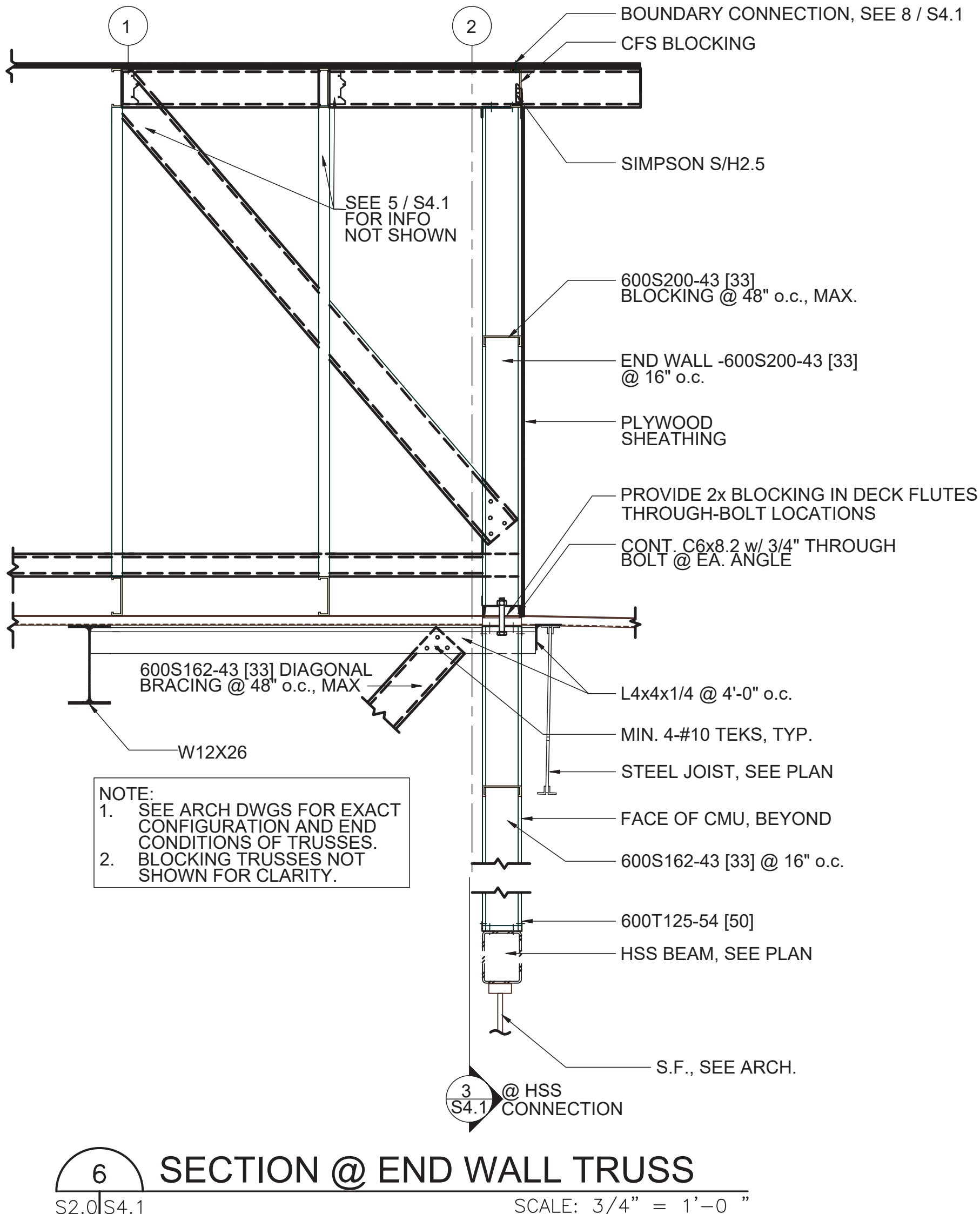
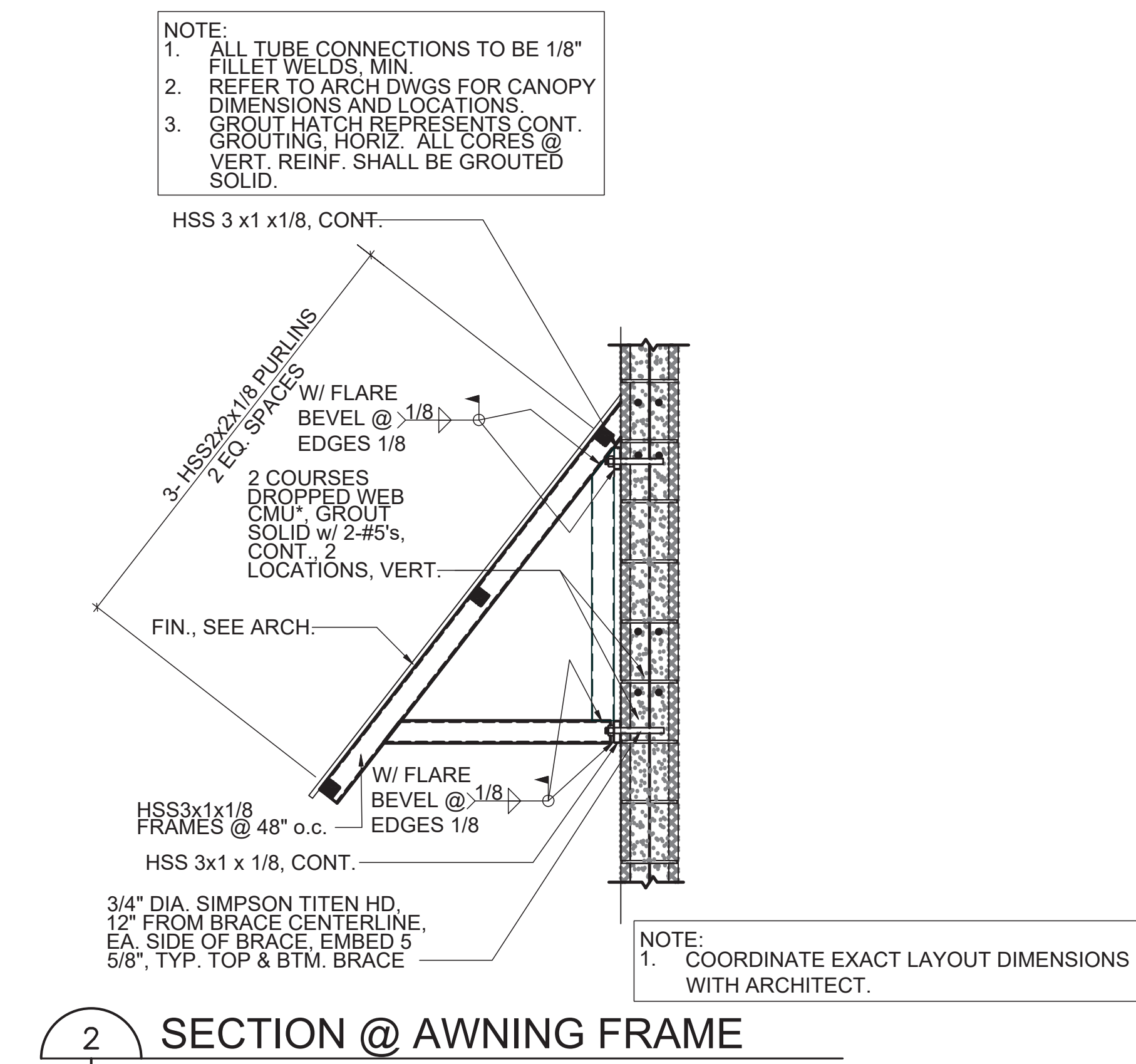
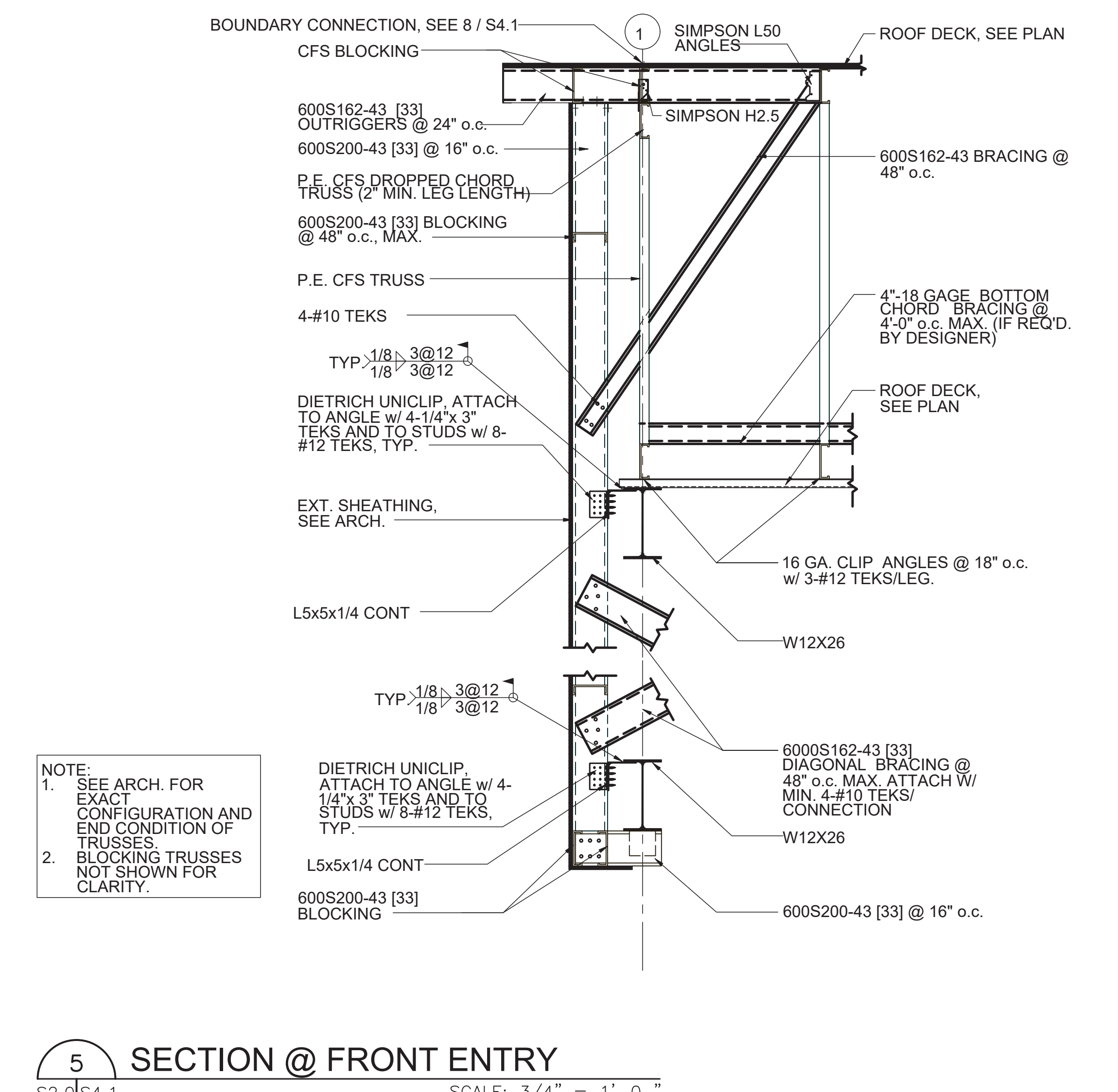
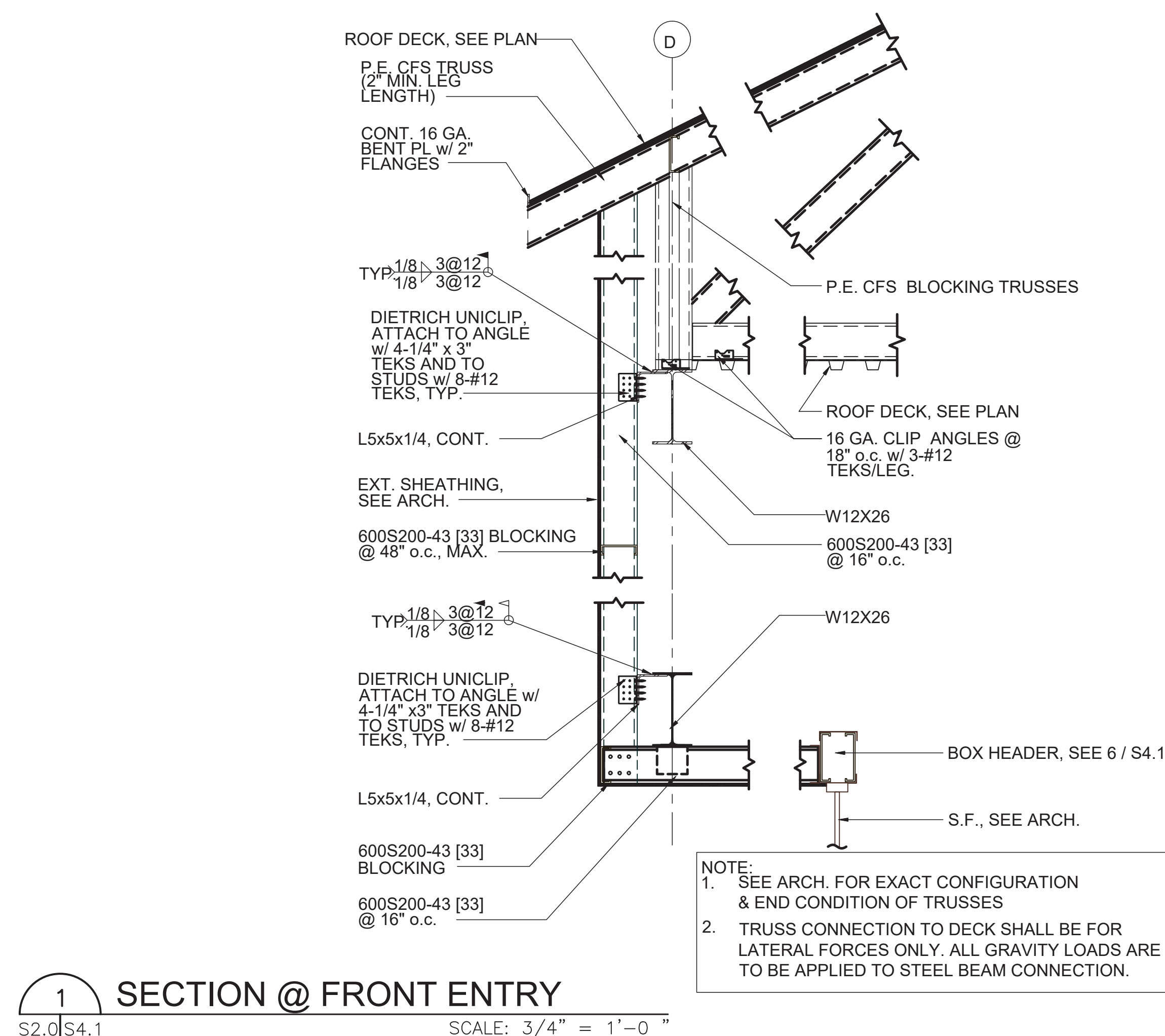
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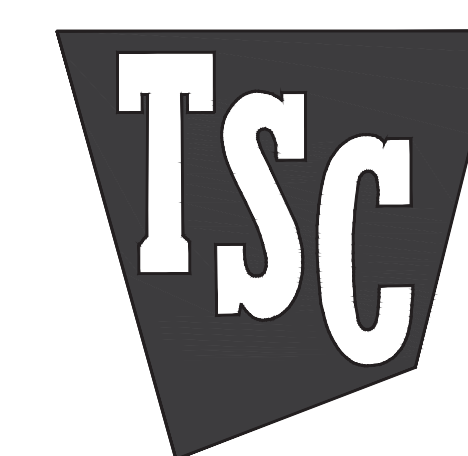
Sheet Number: S4.1





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TRACTOR SUPPLY COMPANY

HOUMA  
LOUISIANA

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Job Number: 2485

Date: 01.20.2025

Revisions:

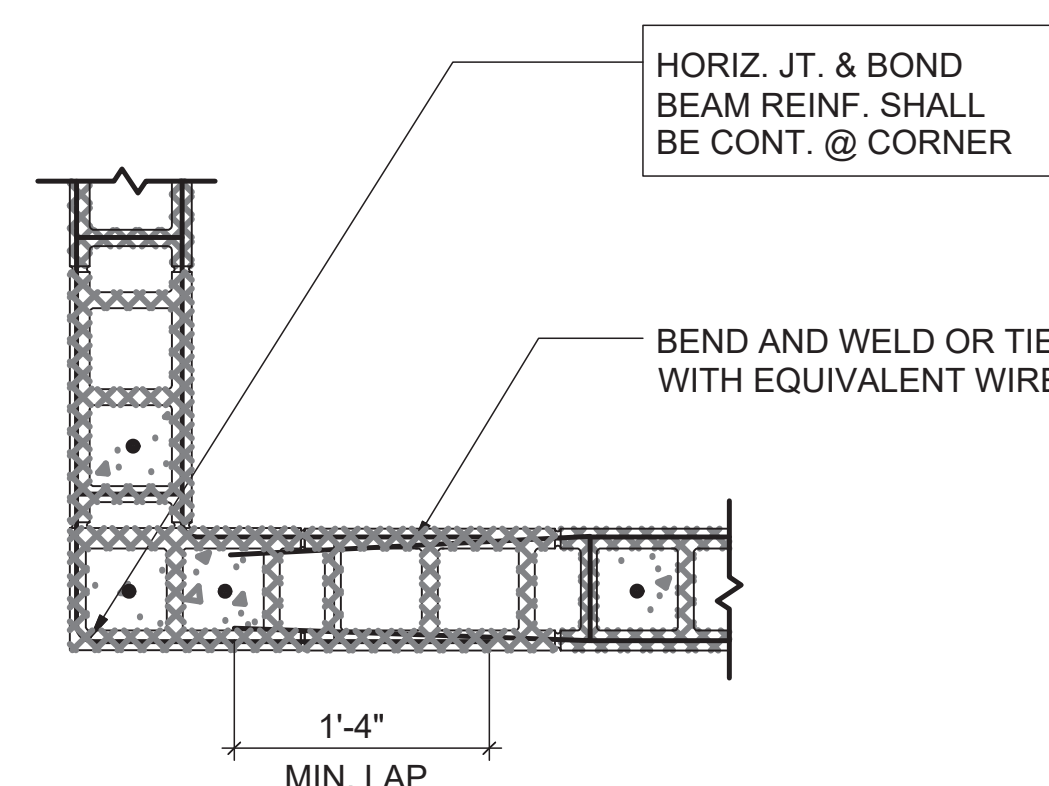
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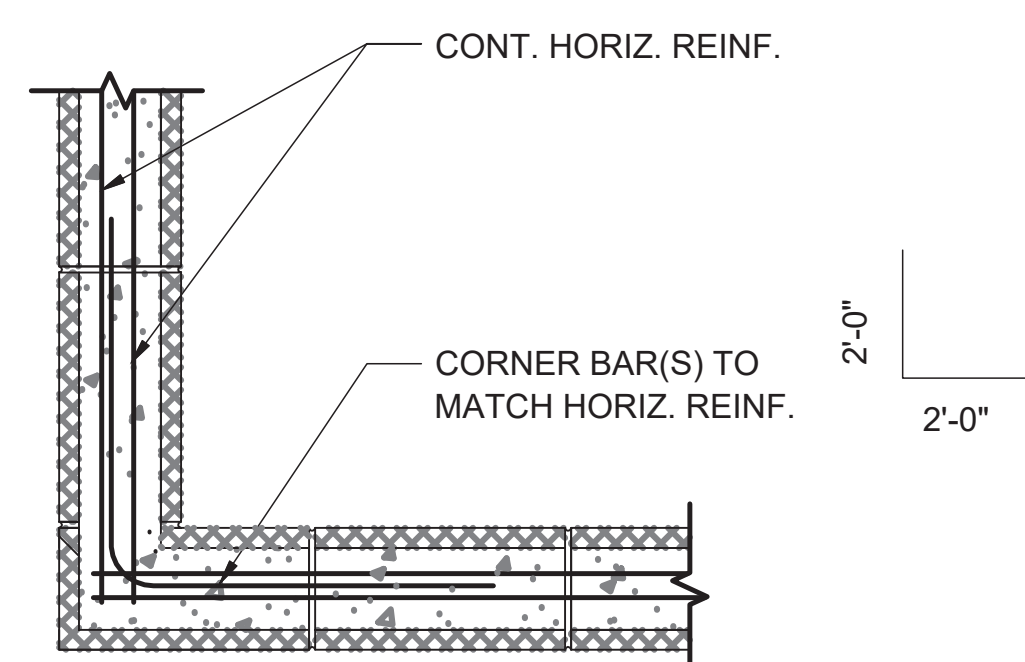
STRUCTURAL DETAILS

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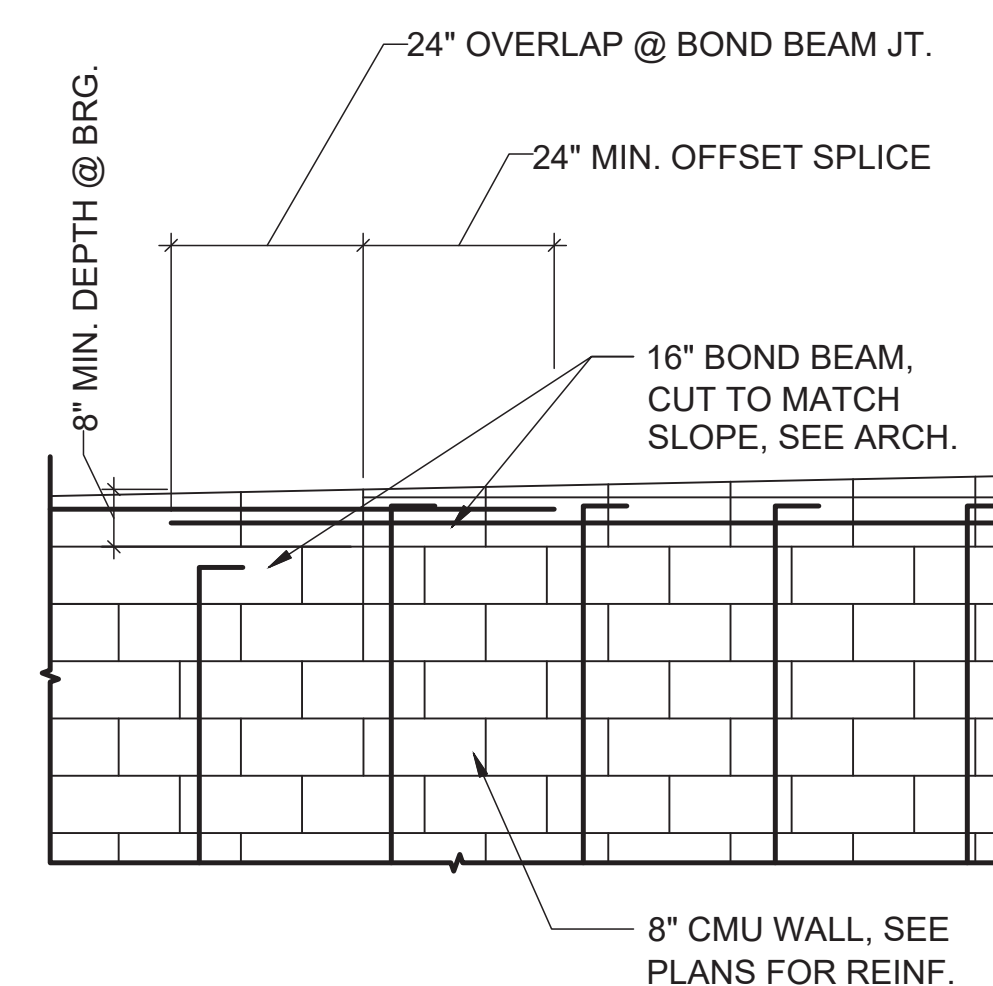
S4.2



1 CMU REINF. @ CORNER  
S2.0|S4.2 NOT TO SCALE

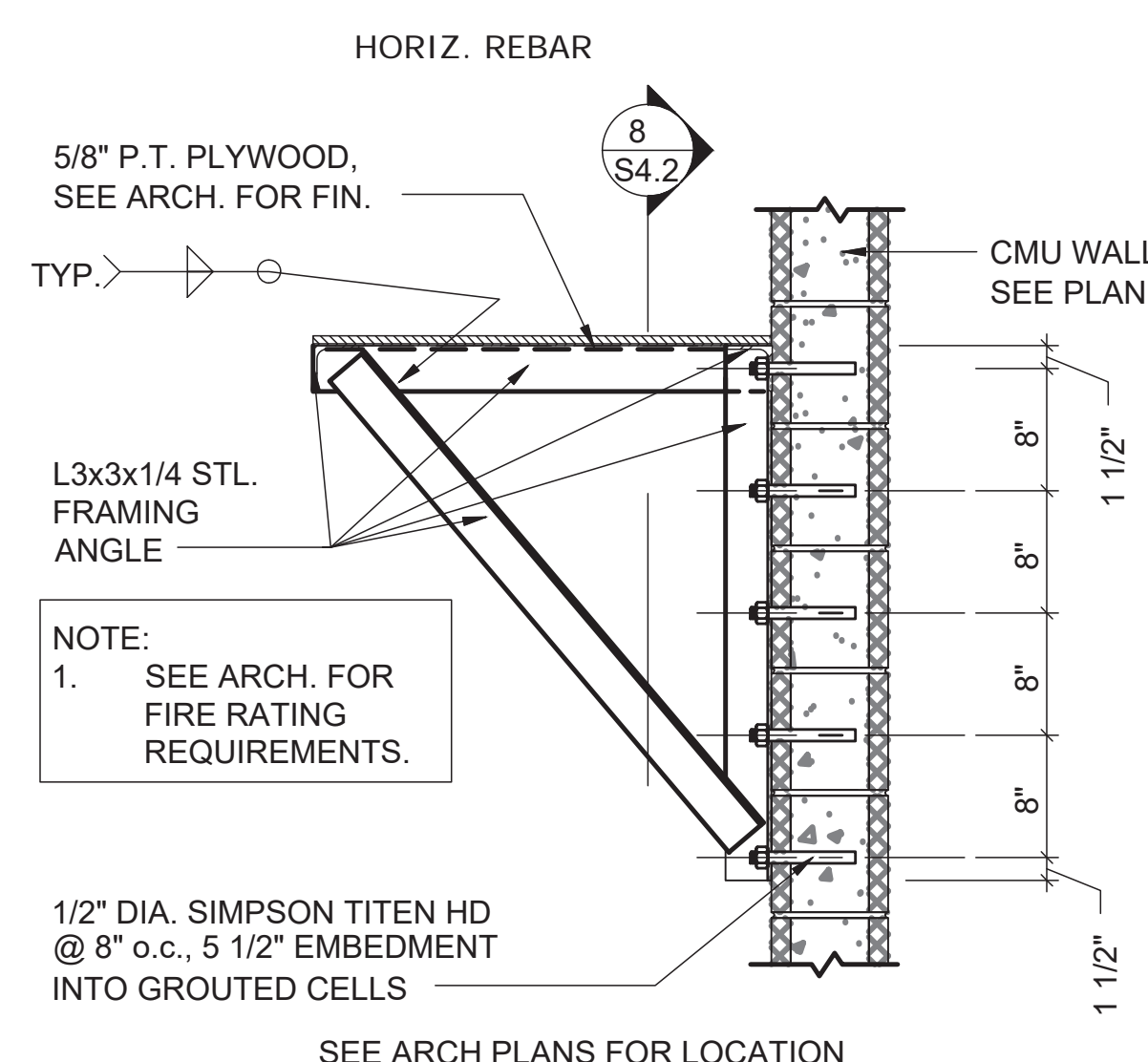


2 BOND BEAM REINF. @ CORNER  
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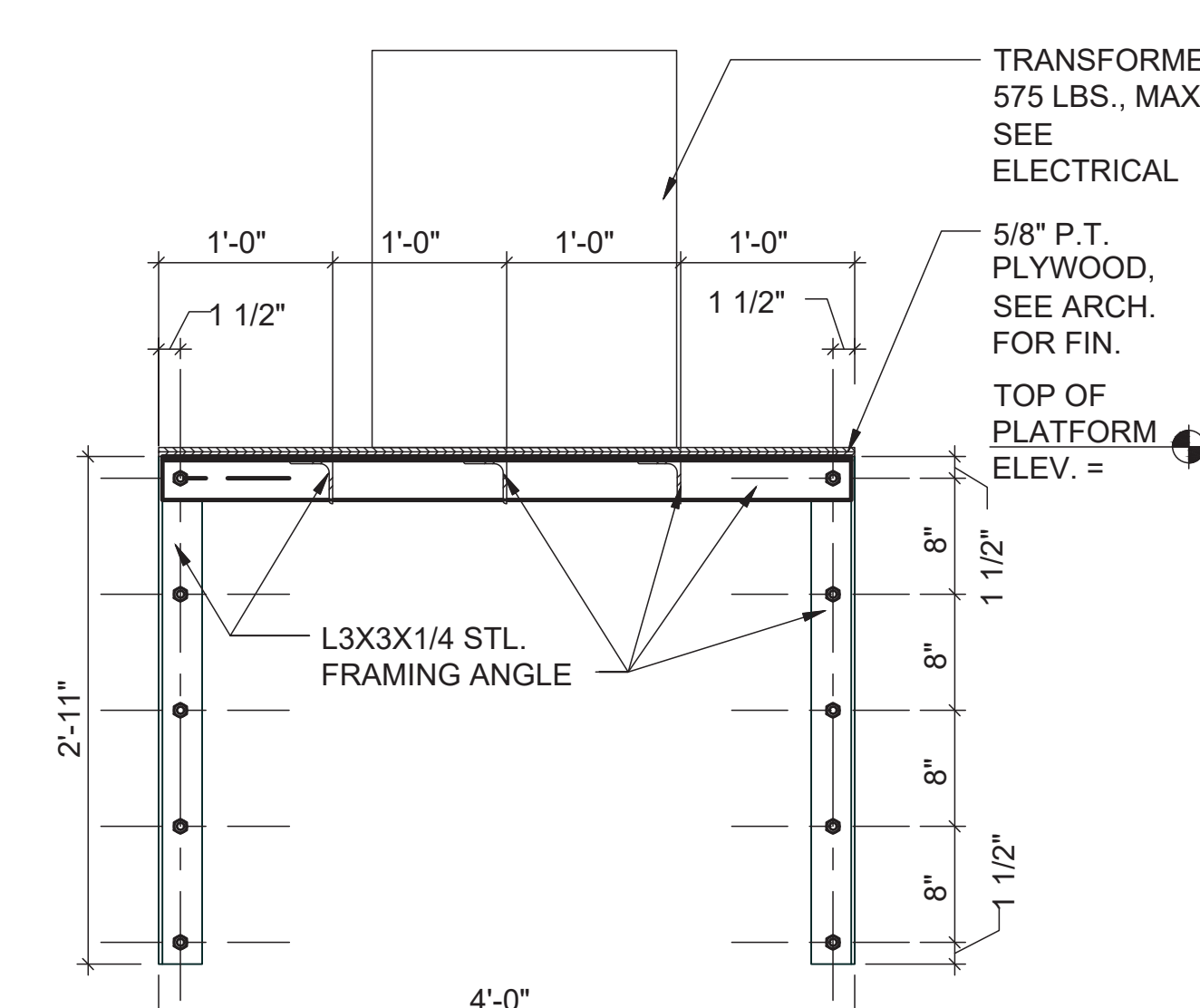


3 SECTION @ SLOPED BOND BEAM  
TYP.|TYP. NOT TO SCALE

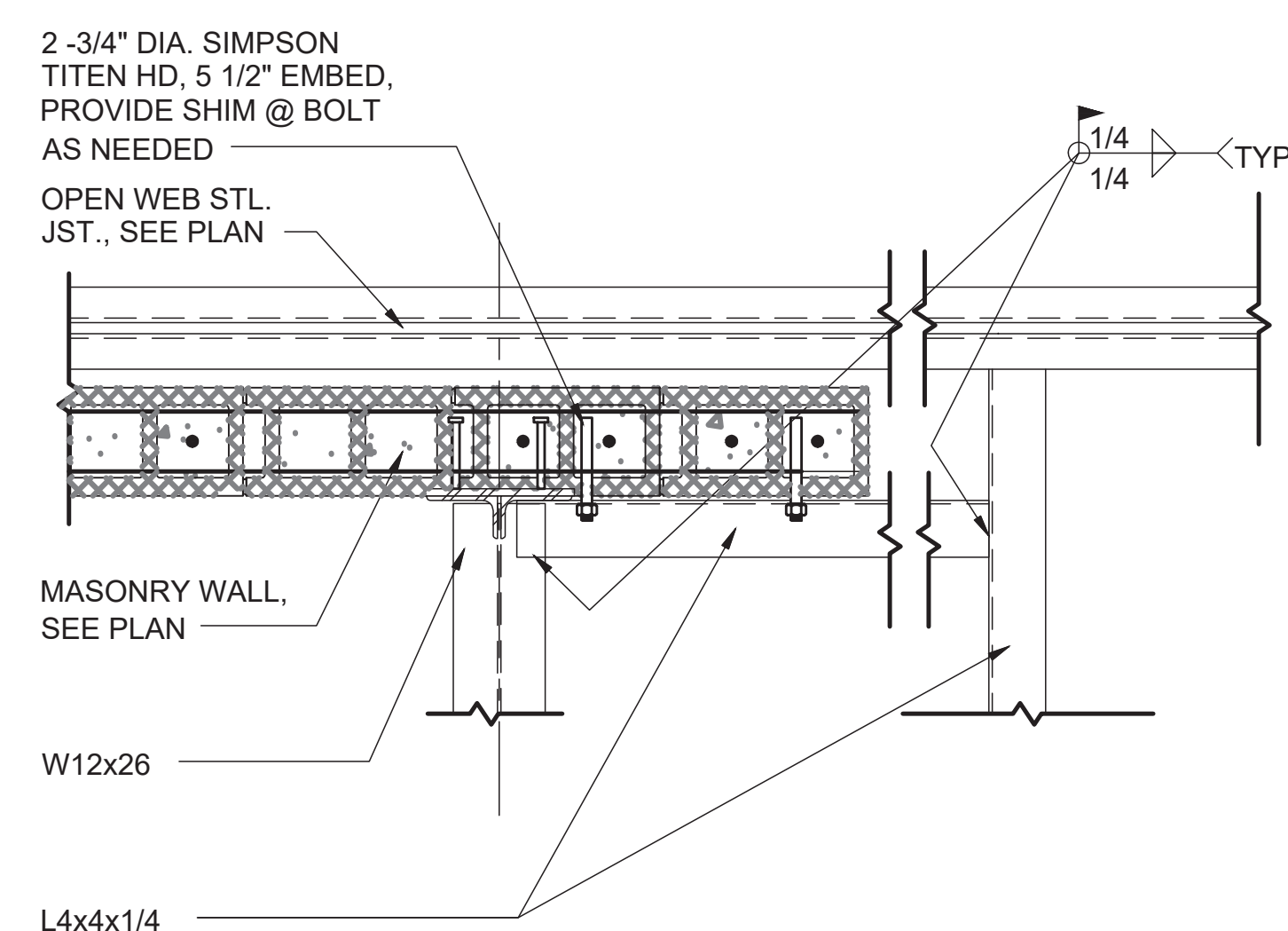
4 NOT USED



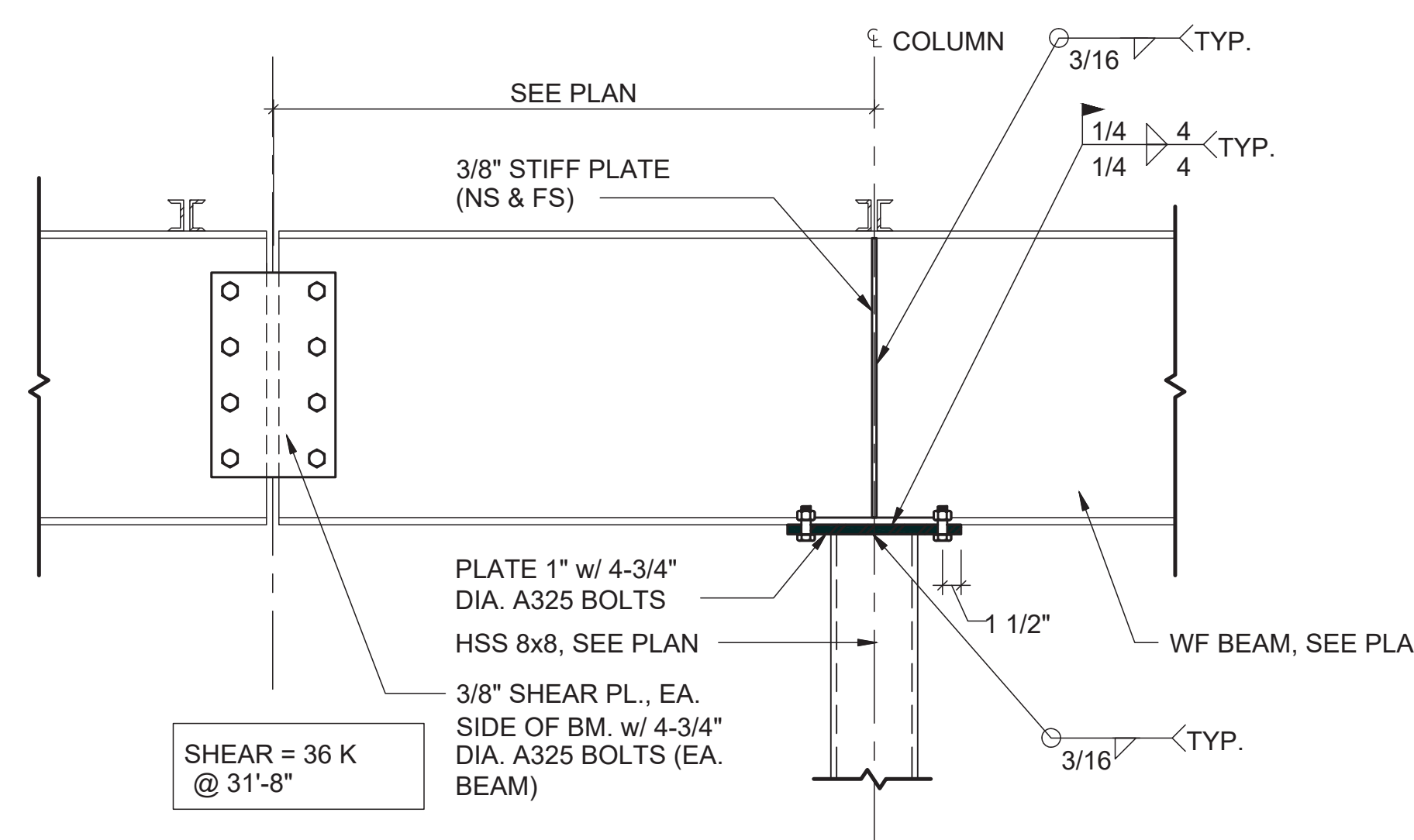
5 SECTION @ TRANSFORMER PLATFORM  
S1.0|S4.2 SCALE: 1" = 1'-0"



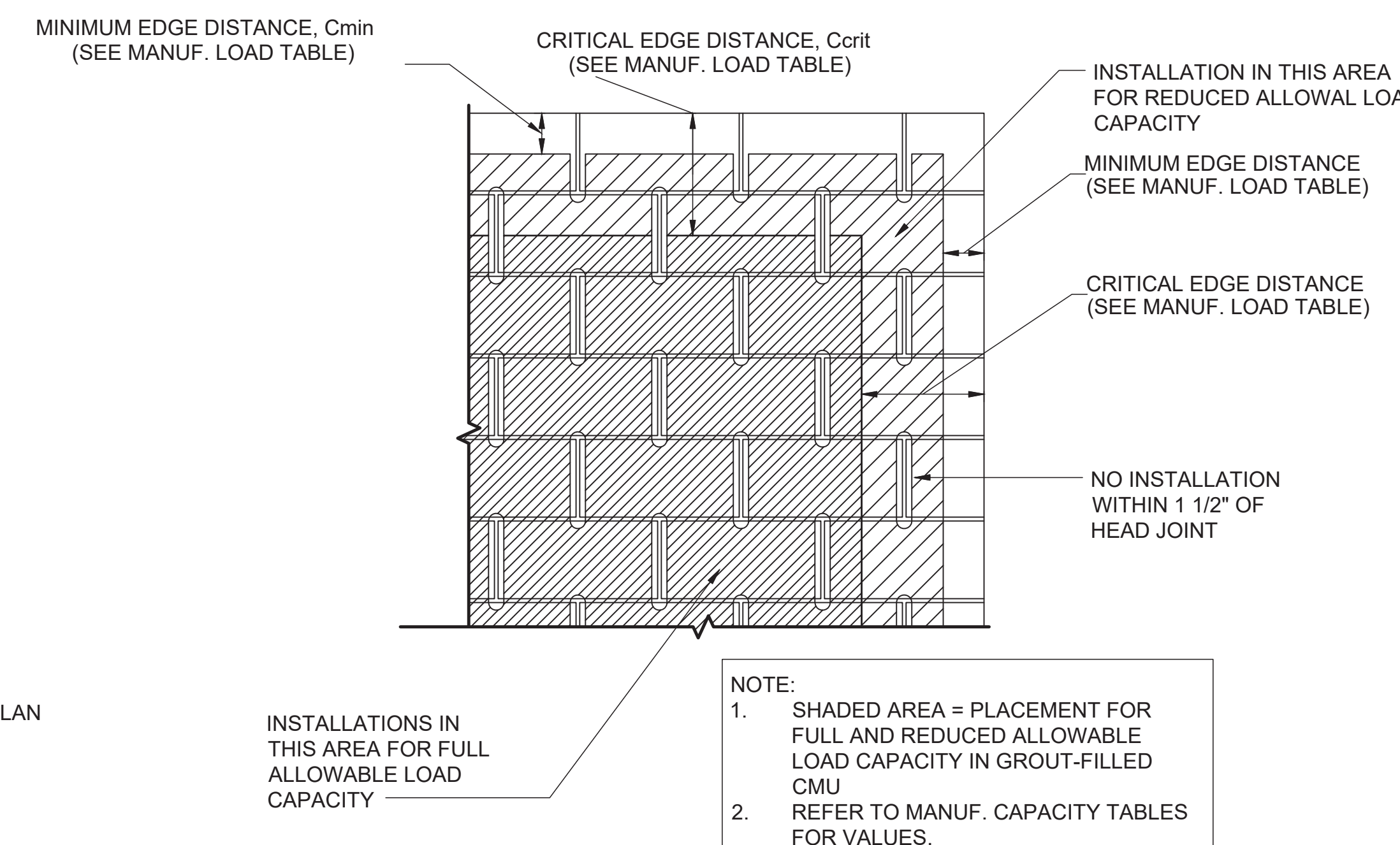
6 SECTION @ TRANSFORMER PLATFORM  
S4.2|S4.2 SCALE: 1" = 1'-0"



7 PLAN VIEW - VEST DECK CONNECTION  
TYP.|TYP. SCALE: 1" = 1'-0"



8 SECTION @ BEAM SPLICE  
S2.0|S4.2 SCALE: 1" = 1'-0"



9 SIMPSON TITEN HD ANCHOR PARAMETERS  
TYP.|TYP. NOT TO SCALE





STRUCTURAL GENERAL NOTES

A. GENERAL

- DO NOT SCALE CONTRACT DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
- VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIALS
- ARCHITECT'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS.
- SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING AND DAMP PROOFING DETAILS.
- CHECK ALL DIMENSIONS ON STRUCTURAL DRAWINGS AGAINST ARCHITECTURAL DRAWINGS.
- COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS AND VERIFY THE LOCATION OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, WALL OPENINGS, AND OTHER PROJECT REQUIREMENTS.
- REFERENCE ARCHITECTURAL AND MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BLOCKING, ANCHORS, ETC., AND THE ANCHORAGE OF THEIR RESPECTIVE ITEMS.
- CONCRETE TRUCKS, CRANES, FORKLIFTS, OR ANY VEHICLE WITH A WHEEL LOAD GREATER THAN 2,000 POUNDS SHALL NOT BE PERMITTED ON THE STRUCTURAL SLAB WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT AND PLACED ON FRAME FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGNED LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT OBTAINED DESIGN STRENGTH.

B. GOVERNING BUILDING CODES:

- GENERAL BUILDING CODE...2021 IBC WITH LAFOUCHE PARISH AMMENDMENTS
- CONCRETE CODES...318-19
- STRUCTURAL STEEL CODES...AISC 360
- LIGHT GAUGE STEEL CODES...AIS1 S100-16
- WOOD CODES-NA
- MASONRY CODES-TMS 402
- WIND CODES-ASCE 7-16  
WHERE CONFLICT EXISTS BETWEEN THE VARIOUS PUBLICATIONS AS SPECIFIED HEREIN, THE STRICTEST REQUIREMENTS OF THE VARIOUS PUBLICATIONS SHALL GOVERN UNLESS NOTED OTHERWISE. WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, SPECIFICATIONS, THE STRICTEST REQUIREMENTS SHALL GOVERN.

C. DESIGN CRITERIA AND LIVE LOADS

- SEISMIC LOADS
  - SEISMIC IMPORTANCE FACTOR, Ie..... 1.0
  - RISK CATEGORY..... II
  - MAPPED SPECTRAL RESPONSE ACCELERATIONS:
    - SHORT PERIOD, Ss.....0.085
    - ONE SECOND PERIOD, S1..... 0.049
  - SITE CLASS..... E
  - SPECTRAL RESPONSE COEFFICIENTS:
    - SHORT PERIOD, Sds..... 0.135
    - ONE SECOND PERIOD, Sd1..... 0.138
  - SEISMIC DESIGN CATEGORY..... C
  - BASIC SEISMIC FORCE RESISTING SYSTEM(S)
    - REINFORCED MASONRY SHEAR WALLS
  - DESIGN BASE SHEAR.....9.8 KIPS
  - SEISMIC RESPONSE COEFFICIENT(S), Cs..... 0.042
  - RESPONSE MODIFICATION FACTOR(S), R..... 3.5
  - ANALYSIS PROCEDURE USED..... EQUIVALENT LATERAL FORCE
- WIND PRESSURE
  - ULTIMATE DESIGN WIND SPEED (3 SEC. GUST) V<sub>ULT</sub>..... 151 MPH
  - NOMINAL DESIGN WIND SPEED (3 SEC. GUST) V<sub>ASD</sub>..... 117 MPH
  - RISK CATEGORY..... II
  - WIND EXPOSURE CATEGORY..... C
  - INTERNAL PRESSURE COEFFICIENT..... +/- 0.18
  - COMPONENTS AND CLADDING..... SEE S5.3
- SNOW
  - FLAT-ROOF SNOW LOAD, Pf..... 0 PSF
  - SNOW EXPOSURE FACTOR, Ce..... 0.9
  - THERMAL FACTOR, Ct..... 1.1
  - SNOW IMPORTANCE FACTOR, Is..... 1.2
- FLOOD DATA
  - FLOOD ZONE..... X
  - ADVISORY BASE FLOOD ELEVATION..... FT NAVD88
  - DRY FLOOD-PROOF ELEVATION..... N/A
- ROOF DEAD LOADS (PSF)
  - SINGLE PLY.....1.0
  - INSULATION.....1.0
  - METAL DECK.....2.5
  - FRAMING.....3.0
- COLLATERAL LOADS
  - DUCTING/ PIPING.....1.5
  - ELECTRICAL.....1.5
  - SPRINKLER.....2.0
- FLOOR DEAD LOAD
  - SLAB.....75
  - FINISHES.....5
- FLOOR LIVE LOADS
  - RETAIL.....100
  - STORAGE.....150
- ROOF LIVE LOADS.....20 REDUCIBLE
- PARTITION LOADS.....N/A

D. DISCOVERY AND FIELD VERIFICATION

- DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT NOW KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION (DISCOVERY). SUCH CONDITIONS MAY INTERFERE WITH NEW CONSTRUCTION OR REQUIRE PROTECTION AND/OR SUPPORT OF EXISTING WORK DURING CONSTRUCTION. OR MAY CONSIST OF DAMAGE OR DETERIORATION TO STRUCTURAL MATERIALS OR COMPONENTS WHICH COULD JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING(S).
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ALL DISCOVERIES HE BELIEVES MAY INTERFERE WITH PROPER EXECUTION OF THE WORK OR JEOPARDIZE THE STRUCTURAL INTERFERY OF THE BUILDING(S) PRIOR TO PROCEEDING WITH WORK RELATED TO SUCH DISCOVERIES.
- THE STRUCTURAL DOCUMENTS MAY SPECIFY DIMENSIONS, ELEVATIONS AND CONSTRUCTION CONDITIONS TO BE FIELD VERIFIED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL SPECIFIED CONDITIONS PRIOR TO PROCEEDING WITH THE CONSTRUCTION OR FABRICATION OF ANY STRUCTURAL COMPONENTS RELATED TO SUCH CONDITIONS. THIS FIELD VERIFICATION SHALL BE MADE IN A TIMELY MANNER SO AS TO CAUSE NO DELAYS IN EXECUTION OF THE WORK.

E. STRUCTURAL STABILITY DURING CONSTRUCTION

- THE STRUCTURAL DRAWINGS ILLUSTRATE THE COMPLETED STRUCTURE WITH ALL ELEMENTS IN THEIR FINAL POSITIONS, PROPERLY SUPPORTED AND BRACED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS.
- THE STRUCTURAL STEEL SUPERSTRUCTURE IS NOT Laterally SELF-SUPPORTING UNTIL ALL ROOF DIAPHRAGMS AND THE CONNECTIONS TO ALL LATERAL LOAD RESISTING ELEMENTS ARE IN PLACE.
- ERECTION CONNECTORS SHALL BE PROVIDED IN ORDER TO PROPERLY ALIGN AND HOLD THE STRUCTURE. MEMBERS SHALL BE IN THEIR PROPER PLANE AND BE TRUE TO PLUMB WHEN WELDS ARE MADE.
- THE CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PROVIDE PROPER SHORING AND BRACING AS MAY BE REQUIRED DURING CONSTRUCTION TO ACHIEVE THE FINAL COMPLETED STRUCTURE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY ISSUES AS MANDATED BY FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL EMPLOY A "COMPETENT PERSON" AS DEFINED IN OSHA REGULATIONS TO IDENTIFY SAFETY ISSUES. THE CONTRACTOR SHALL EMPLOY A "QUALIFIED PERSON" AS DEFINED IN OSHA REGULATIONS TO SPECIFY THE RESOLUTION OF SAFETY ISSUES.
- THE CONTRACTOR SHALL EMPLOY A QUALIFIED PROFESSIONAL SHORING / BRACING SUBCONTRACTOR TO DESIGN AND SUPPLY SHORING / BRACING SYSTEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND SPECIFYING ANY MODIFICATIONS TO THE STRUCTURE REQUIRED FOR COMPLIANCE WITH OSHA REGULATIONS AND GENERALLY ACCEPTED PRINCIPLES OF CONSTRUCTION. THE CONTRACTOR SHALL PROPOSE ALL SUCH MODIFICATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.

F. SUBMITTALS

- ALL SUBMITTALS SHALL BE IN PDF FORMAT PLUS HARD COPIES AS REQUIRED BELOW.
- DEFERRED SUBMITTALS: THE FOLLOWING ITEMS ARE ENGINEERED BY OTHERS. ENGINEERING AND DOCUMENTATION OF THESE ITEMS ARE TO BE PROVIDED BY OTHERS FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD. AFTER REVIEW, THESE DEFERRED SUBMITTAL ITEMS WILL BE SUBMITTED TO THE BUILDING OFFICIAL.
  - COLD FORMED METAL FRAMING SYSTEMS
  - STEEL JOISTS AND JOIST GIRDERS
- FURNISH SHOP AND ERECTION DRAWINGS TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION. SUBMIT IN A TIMELY MANNER TO PERMIT 15 WORKING DAYS FOR REVIEW BY STRUCTURAL ENGINEER OF RECORD.
- FURNISH FOUR SETS OF CONCRETE, GROUT AND MORTAR MIX DESIGNS INCLUDING STRENGTH TEST DATA AND MANUFACTURER'S LITERATURE ON ADMIXTURES FOR REVIEW BY STRUCTURAL ENGINEER OF RECORD NO LATER THAN 2 WEEKS PRIOR TO ON-SITE USE OF THESE MATERIALS.
- THE FOLLOWING IS A LIST OF SHOP DRAWING SUBMITTAL:
  - CONCRETE MIX DESIGNS
  - CONCRETE REINFORCEMENT FOR ALL FOUNDATION COMPONENTS
  - CONCRETE MASONRY UNIT(CMU) REINFORCING FOR ALL MASONRY PORTIONS OF THE WORK
  - 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 REINFORCEMENT
  - JOINT AND JOINT COVER MATERIAL
- STRUCTURAL STEEL JOIST AND DECK, INCLUDING LAYOUT, COMPOSITION, AND CONNECTIONS.
  - MATERIALS
  - DESIGN DRAWING, STAMPED BY TRUSS DESIGNER, LICENSED IN THE PROJECT STATE
- NON-BEARING COLD FORMED STEEL(CFS) PRE-ENGINEERED STUDS AND JOISTS.
- GENERAL AND SUB-CONTRACTOR NOTES:
  - THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMITTALS PRIOR TO SUBMITTAL FOR REVIEW BY THE STRUCTURAL ENGINEER IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
  - THE STRUCTURAL DRAWINGS SHALL NOT BE USED AS BACKGROUNDS FOR SHOP OR ERECTION DRAWINGS. DRAWINGS PREPARED IN THIS MANNER AND SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER WILL BE RETURNED REJECTED AND CONSIDERED AS NOT BEING IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS.

G. SPECIAL INSPECTIONS PER 2021 IBC

- THE OWNER SHALL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE REQUIRED SPECIAL INSPECTION ITEMS AS NOTED HEREIN.
- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON FROM AN APPROVED AGENCY WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:  
THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH:
  - THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAIVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
  - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE DESIGN PROFESSIONAL-OF-RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE DESIGN PROFESSIONAL-OF-RECORD, UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
  - THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.
- SPECIAL INSPECTIONS SHALL BE MADE OF THE FOLLOWING STRUCTURAL WORK:
  - 1705.2 STEEL CONSTRUCTION
  - 1705.3 CONCRETE CONSTRUCTION
  - 1705.4 MASONRY
  - 1705.6 SOILS
  - 1705.7 DRIVEN DEEP FOUNDATIONS
- SEE SHEET S5.2 FOR SPECIFIC ITEM REQUIRING SPECIAL INSPECTION
- SPECIAL INSPECTIONS FOR STRUCTURAL STEEL PER SECTION 1705.2.1 SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360 CHAPTER N.

H. FOUNDATIONS - DRIVEN TIMBER PILES

- THE SUBGRADE INFORMATION AND FOUNDATION DESIGN ARE BASED UPON A GEOTECHNICAL REPORT, NO. 65-1673 REVISION 1 PREPARED BY ECS SOUTH-EAST, LLC, ENTITLED "REVISED GEOTECHNICAL ENGINEERING REPORT, TRACTOR SUPPLY, HOUMA, LOUISIANA DATED DECEMBER 20, 2024. CONTRACTOR SHALL REFERENCE THIS REPORT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- ALL PILE DRIVING OPERATIONS SHALL BE PERFORMED UNDER EXPERIENCED SUPERVISIONS AND WITH EFFICIENTLY OPERATING MECHANICAL EQUIPMENT. THE HAMMER SELECTION IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ADEQUATELY LARGE ENOUGH TO REACH PROPOSED TIP ELEVATIONS AND DEVELOP THE REQUIRED CAPACITIES BUT CONSIDERING THE POTENTIAL VIBRATIONS RESULTING FROM THE PILE DRIVING OPERATIONS. CONTRACTOR SHALL PRE DRILL OR PRE PUNCH THROUGH ANY OBSTRUCTIONS AT NO ADDITIONAL COSTS TO THE OWNER. CONTRACTOR SHALL INSTALL 4 TEST PILES IN ORDER TO OPTIMIZE INSTALLATION TECHNIQUES PRIOR TO PRODUCTION PILE INSTALLATION. IF REFUSAL, OR MULTIPLE SUCCESSIVE BLOWS WITH LITTLE TO NO PILE PENETRATION OCCURS, THE CONTRACTOR SHALL EVALUATE IF PREDRILLING IS NECESSARY TO BYPASS THE SAND LAYER. PILE CAPACITIES SHALL BE VERIFIED USING DYNAMIC TESTING DURING PILE INSTALLATION. PDA DATA SHALL BE USED USING SIGNAL MATCHING THROUGH THE CASE METHOD WAVE ANALYSIS PROGRAM(CAPWAP) TO ESTIMATE THE INSTALLED CAPACITY OF THE TEST PILE. HIGH STRAIN DYNAMIC TESTING(HSDT) WOULD BE ACCEPTABLE IN LIEU OF STATIC LOAD TESTING IF ACCEPTABLE TO THE ENGINEER.
- PREPARE SITE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. STRIP EXISTING GRADE OF EXISTING PAVEMENTS, OLD FOUNDATIONS, ALL TOPSOIL, VEGETATION, AND OTHER UNDESIRABLE MATERIALS.
- PROVIDE TEMPORARY EARTH RETENTION SYSTEMS AS REQUIRED.
- MAINTAIN THE SUBGRADE AND FILL MOISTURE CONTENTS UNTIL FOUNDATIONS ARE PLACED.
- ALL TIMBRE PILES SHALL CONFORM TO ASTM D25 AND AS FOLLOWS:
  - BUTT DIA.....13"
  - TIP DIA.....7"
  - LENGTH.....55'
- ALLOWABLE PILE CAPACITIES ARE AS FOLLOWS:

	COMPRESSION	ESTIMATED LENGTH	FACTOR OF SAFETY
a) TREATED TIMBER	15.5 TONS	55 FT	F.S.=2
- BROKEN, SHATTERED OR BROOMED PILES, OR PILES MORE THAN 2% OUT OF PLUMB, OR ANY PILE MORE THAN 3 INCHES OUT OF PLUMB SHALL BE REMOVED OR LEFT IN PLACE AND A REPLACEMENT PILE DRIVEN AS DETERMINED BY THE ENGINEER.
- CONTRACTOR SHALL MONITOR PILE DRIVING VIBRATIONS TO DETERMINE IF THE EFFECTS ON LOCAL STRUCTURES AND UTILITIES REQUIRE PILE DRIVING PROCEDURE MODIFICATIONS.
- DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS OR GRADE BEAMS UNTIL BRACING FLOORS ARE IN PLACE, OR OTHER ADEQUATE BRACING IS INSTALLED.
- DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.
- DO NOT BACKFILL FOUNDATION AND RETAINING WALLS UNTIL CONCRETE HAS CURED FOR A MINIMUM OF 7 DAYS OR UNTIL CONCRETE HAS REACHED A MINIMUM OF 75% OF DESIGN STRENGTH.
- TIMBER PILES SHALL BE TREATED PER AWP, USE CATEGORY C4 WITH 0.8 CCA RETENTION.
- PROVIDE AS-BUILT DRAWINGS OF ROUND TIMBER PILE LOCATIONS DIMENSIONED FROM COLUMN GRIDS FOR REVIEW. PILE CAP DESIGN IS BASED ON ROUND TIMBER PILES PILE TOLERANCE OF 3" IN ANY DIRECTION. OUT OF TOLERANCE ROUND TIMBER PILES MAY REQUIRE PILE CAP MODIFICATIONS AND/OR ADDITIONAL ROUND TIMBER PILES AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR'S PROPOSAL FOR WORK SHALL EXPLAIN IN DETAIL THE MATERIALS, METHOD AND DESIGN ASSUMPTIONS TO BE EMPLOYED. THE CONTRACTOR PERFORMING THE WORK DESCRIBED SHALL HAVE INSTALLED ROUND TIMBER PILES FOR A MINIMUM OF FIVE YEARS. AT THE TIME OF BID, THE CONTRACTOR SHALL SUBMIT A LIST CONTAINING AT LEAST FIVE PROJECTS ON WHICH THE CONTRACTOR HAS INSTALLED ROUND TIMBER PILES. A BRIEF DESCRIPTION OF EACH PROJECT AND A REFERENCE SHALL BE INCLUDED FOR EACH PROJECT LISTED. AS A MINIMUM, THE REFERENCE SHALL INCLUDE AN INDIVIDUAL'S NAME AND CURRENT PHONE NUMBER.
- THE CONTRACTOR SHALL ASSIGN AN ENGINEER TO SUPERVISE THE WORK, WITH AT LEAST THREE YEARS OF EXPERIENCE IN THE DESIGN AND CONSTRUCTION OF ROUND TIMBER PILES. THE USE OF CONSULTANTS OR MANUFACTURER'S REPRESENTATIVES DOES NOT SATISFY THE REQUIREMENTS OF THIS SECTION. DRILL OPERATIONS AND ON-SITE SUPERVISORS SHALL HAVE A MINIMUM OF ONE YEAR EXPERIENCE INSTALLING ROUND TIMBER PILES WITH THE CONTRACTOR'S ORGANIZATION.

J. CAST IN PLACE CONCRETE/ NON-PRESTRESSED

- STRUCTURAL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-11.
- WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-10, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, FARMINGTON HILLS, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
- TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF ACI 117-10, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS" PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, FARMINGTON HILLS, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE. UNIT WEIGHT APPROXIMATELY 145 PCF, UNLESS NOTED. CLEARLY IDENTIFY INTENDED USE FOR EACH MIX DESIGN SUBMITTED FOR APPROVAL.
- CONCRETE SHALL CONFORM TO THE FOLLOWING:

USE	f'c AT 28-DAYS	AIR CONTENT	W/C RATIO
a) PILE CAPS, GRADE BEAMS	4,000 PSI	0% TO 2%	0.50
b) SLABS, BEAMS	4,000 PSI	1% TO 3%	0.45
- ALL CONCRETE SHALL USE TYPE III-II CEMENT.
- CLASS C FLY ASH CONFORMING TO THE REQUIREMENTS OF ASTM C618 CAN BE USED UP TO 15% BY MASS OF CEMENTITIOUS MATERIAL.
- GROUND GRANULATED BLAST-FURNACE SLAG CONFORMING TO THE REQUIREMENTS OF ASTM C989 CAN BE USED UP TO 25% BY MASS OF CEMENTITIOUS MATERIAL.
- COARSE AND FINE AGGREGATES SHALL CONFORM TO ASTM C33. USE #67 STONE FOR COARSE AGGREGATE IN CONCRETE.
- MAXIMUM SLUMP FOR CONCRETE WITHOUT WATER-REDUCING ADMIXTURES OR PRIOR TO THEIR ADDITION IS 4 INCHES. MAXIMUM SLUMP FOR CONCRETE WITH LOW TO MODERATE RANGE WATER-REDUCING ADMIXTURES IS 6 INCHES. MAXIMUM SLUMP FOR CONCRETE WITH HIGH RANGE WATER REDUCING ADMIXTURES IS 8 INCHES.
- MIXING WATER SHALL BE POTABLE. THE USE OF WASH WATER AS A PORTION OF THE MIXING WATER SHALL NOT BE PERMITTED.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS NOTED OTHERWISE.
- CLEAN ALL CONSTRUCTION JOINTS THOROUGHLY AND PURPOSELY ROUGHEN THE SURFACE TO 1/4" AMPLITUDE USING A ROTARY HAMMER PRIOR TO PLACING ADJACENT CONCRETE.
- SLABS AND BEAMS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT CENTER OF SPAN OR AT CENTER OF SUPPORT WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
- CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE WITH APPROVAL OF THE ENGINEER, PROVIDED THAT REGULATIONS ARE FOLLOWED AS OUTLINED IN THE APPLICABLE ACI CODES.
- CONDUITS, PIPES AND SLEEVES PASSING THROUGH A SLAB OR BEAM SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF CONSTRUCTION AS DETERMINED BY THE ENGINEER.
- SINGLE CONDUITS AND PIPES OR INTERSECTING CONDUITS AND PIPES SHALL NOT OCCUPY MORE THAN 1/2" OF SLAB THICKNESS AND 1/6 THE OVERALL THICKNESS OF BEAMS IN WHICH THEY ARE EMBEDDED, AND THEY SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER. ANY CONDUIT OR PIPE LARGER SHALL BE LOCATED BELOW THE RESPECTIVE SLAB OR BEAM. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, A DIAGRAM DEPICTING THE HOME RUNS OF CONDUIT TO ALL PANELS, TYPICAL.
- IT WILL NOT BE PERMITTED TO CUT, BEND, OR DISPLACE THE REINFORCING STEEL FROM ITS PROPER LOCATION.
- COORDINATION SHALL BE MADE BY THE CONTRACTOR AT HIS EXPENSE TO FOLLOW THE ABOVE GUIDELINES.
- OPENINGS 12" SQUARE OR SMALLER MAY BE PLACED IN WALLS WITHOUT WRITTEN APPROVAL.
- CAREFULLY COORDINATE THE PLACEMENT OF ALL CAST-IN-PLACE EMBEDS AND ANCHOR RODS. ANCHOR RODS SHALL BE SET WITH A TEMPLATE. ALL EMBED ITEMS SHALL BE SECURELY ATTACHED TO FORMWORK OR REINFORCING.
- MATERIAL DESIGNATED IN THESE GENERAL NOTES, DRAWINGS, OF SPECIFICATIONS AS SELECT BACKFILL SHALL CONSIST OF APPROVED MATERIALS FREE OF ORGANIC MATTER AND DEBRIS. A SAMPLE OF EACH MATERIAL TYPE SHOULD BE SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR EVALUATION PRIOR TO USE. FILL SHALL HAVE LESS THAN 10% PASSING NO. 200 SIEVE

K. REINFORCING STEEL

- PROVIDE NEW BILLET STEEL REINFORCING CONFORMING TO ASTM A615, GRADE 60.
  - PROVIDE WELDED WIRE FABRIC CONFORMING TO ASTM A185. LAP LENGTH FOR WELDED WIRE FABRIC IS 12" MINIMUM.
  - CONCRETE CLEAR COVER OVER REINFORCING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-11 AS FOLLOWS:
    - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH... 3"
    - CONCRETE EXPOSED TO WEATHER OR EARTH:
      - BARS #5 AND SMALLER..... 1-1/2"
      - BARS #6 AND LARGER..... 2"
    - CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
      - COLUMNS, BEAMS: PRIMARY STIRRUPS OR TIES..... 1-1/2"
      - SLABS, JOISTS, OR WALLS NO. 11 AND SMALLER..... 3/4"
      - SLABS, JOISTS, OR WALLS NO. 14 AND NO. 18..... 1-1/2"
  - REINFORCING PLACING TOLERANCES
    - CLEAR DISTANCE FROM BARS TO:
      - SOFFIT ON EARTH..... +/- 1/2"
      - FORMED SOFFIT..... +/- 1/4"
      - FORMED SIDE OR VERTICAL SURFACE..... +/- 3/8"
      - TOP SURFACE
        - DEPTH 8" OR LESS..... +/- 1/4"
        - DEPTH MORE THAN 8", NOT MORE THAN 24".... +/- 1/2"
        - DEPTH MORE THAN 24"..... +/- 1"
    - SPACING OF BARS:
      - LONGITUDINAL BARS IN COLUMNS, GIRDERS, BEAMS... +/- 1/4"
      - TIES AND STIRRUPS..... +/- 1"
      - IN SLABS AND WALLS..... +/- 2"
    - LONGITUDINAL LOCATION OF BENDS AND BAR ENDS:
      - AT DISCONTINUOUS END OF MEMBER..... +/- 1/2"
      - ALL OTHER LOCATIONS..... +/- 2"
  - ALL REINFORCING SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE. ALL CONTINUOUS BARS SHALL HAVE CLASS "B" SPLICES UNLESS NOTED OTHERWISE.
  - PROVIDE CLASS "B" REINFORCING SPLICES. PROVIDE STANDARD 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318-11, UNLESS NOTED OTHERWISE. STAGGER SPLICES UNLESS SPECIFICALLY NOTED.
  - CONTINUOUS AS FOLLOWS:
    - TOP BARS AT MIDSPAN
    - BOTTOM BARS - OVER SUPPORT
  - DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66, AND "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," ACI 318, LATEST EDITIONS. PROVIDE DETAILS INDICATING REINFORCING CONTINUITY AT CONSTRUCTION JOINTS.
  - REINFORCING BARS SHALL BE FREE OF ALL DELETERIOUS COATINGS WHEN CONCRETE IS PLACED AND THE LENGTH, SIZE, AND LOCATION SHALL BE AS SHOWN ON THE PROJECT PLANS.
  - WHERE REQUIRED, PROVIDE DOWELS MATCHING SIZE AND SPACING OF MAIN REINFORCEMENT.
  - HOOK UNSCHEDULED TOP AND SIDE REINFORCING BARS AT DISCONTINUOUS END.
  - PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN ON PLANS AND DETAILS. ACCESSORIES SHALL BE STAINLESS STEEL IF EXPOSED TO WEATHER.
  - PLACE 2-#5 (1 EACH FACE) WITH 2'-0" PROJECTION AROUND OPENINGS IN CONCRETE; PLACE 1-#4 (IN TOPPING) WITH 2'-0" PROJECTION AROUND OPENINGS THROUGH FLOOR TOPPING SLABS, UNLESS NOTED.
  - ENSURE HORIZONTAL CONTINUITY IN WALLS, FOOTINGS AND GRADE BEAMS BY PROVIDING 3'-0"/3'-0" CORNER BARS MATCHING SIZE AND SPACING OF MAIN REINFORCEMENT AT ALL WALL CORNERS AND INTERSECTIONS.
  - PROVIDE STIRRUPS WITH 2-#4 TOP SUPPORT BARS FOR LENGTH OF STIRRUP SPACING WHERE TOP BARS NOT OTHERWISE PROVIDED.
  - WELDING OF REINFORCING WILL NOT BE ALLOWED.
  - DO NOT RE-BEND ANY BARS.
- L. STRUCTURAL STEEL
- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", DATED APRIL 14, 2010.
  - ALL STRUCTURAL STEEL MEMBERS AND CONNECTIONS DESIGNED USING CODES, STANDARDS, AND SPECIFICATIONS IN AISC STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION.
  - STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:

TYPE	Fy, KSI	ASTM
a) STEEL SHAPES, W AND WT	50	A992
b) STEEL SHAPES OTHER THAN W AND WT	36	A36
c) STEEL PLATES	36	A36
d) HSS, RECTANGULAR	46	A500, GR C
e) STRUCTURAL BOLTS	92	A325
f) THREADED ANCHOR ROD	55	F1554
  - PROVIDE ALL WELDING DONE BY QUALIFIED, CURRENTLY CERTIFIED WELDERS IN ACCORDANCE WITH AWS STRUCTURAL WELDING CODE-STEEL.D1.1:2010. PROVIDE E70XX ELECTRODES UNLESS NOTED OTHERWISE.
  - STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC.
  - CONNECTIONS NOT OTHERWISE DEFINED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR. STRUCTURAL CALCULATIONS FOR THE CONNECTIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF LOUISIANA SHALL BE SUBMITTED BY THE FABRICATOR FOR THE STRUCTURAL ENGINEER'S REVIEW. STRUCTURAL STEEL CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE AND WITH AISC 360-10 USING CONNECTION DESIGN PROCEDURES DOCUMENTED IN PUBLICATIONS SUCH AS THE AISC ENGINEERING JOURNAL, THE AISC STEEL CONSTRUCTION MANUAL, 14<sup>TH</sup> EDITION AND THE AISC STEEL CONSTRUCTION MANUAL DESIGN EXAMPLES.
  - PROVIDE BEARING TYPE BOLTS AND INSTALL "SNUG-TIGHT".
  - MINIMUM WELDS: AS SPECIFICATION, NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.
  - PAIN 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 STEEL. 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 WILL BE RETURNED BY THE DESIGNER. REPRODUCTION OF THE STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.



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Revisions:

Revisions:

Revisions:

GENERAL NOTES

Sheet Number: S5.0



STRUCTURAL GENERAL NOTES (CONT'D)

M. STRUCTURAL STEEL (CONT)

8. ALL GROOVE WELDS TO BE FULL PENETRATION UNLESS NOTED. THE FABRICATOR SHALL SUPPLY BACK-UP PLATES AND EXTENSION TABS FOR ALL COMPLETE PENETRATION WELDS.
9. HOT-DIP GALVANIZE STRUCTURAL STEEL MEMBERS/ASSEMBLIES WHERE INDICATED ON THE DRAWINGS IN ACCORDANCE WITH ASTM A123. MINIMUM COATING THICKNESS GRADE 100. REPAIR ALL DAMAGED GALVANIZED SURFACES AS PER ASTM A780.
10. CLEAN RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS FROM STEEL WHERE REQUIRED FOR FABRICATION, FITTING UP, OR WELDING.
11. NO CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES IS ALLOWED WITHOUT PRIOR REVIEW AND WRITTEN APPROVAL OF THE ENGINEER.
12. ALL RIGGING FOR SAFETY CABLES, LIFTING DEVICES AND TEMPORARY BRACING SHALL BE CONNECTED TO ANGLES, PLATES OR OTHER MEMBERS DESIGNED AND DETAILED BY THE STRUCTURAL STEEL SUPPLIER AND SHALL BE SHOP WELDED TO STRUCTURAL MEMBERS. DO NOT PROVIDE HOLES IN STRUCTURAL MEMBERS FOR THE CONNECTION OF RIGGING CABLES. LIFTING DEVICES AND TEMPORARY BRACING UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL ADDED MEMBERS WHERE THEY INTERFERE WITH OTHER WORK OR ARE EXPOSED TO VIEW.
13. THE CONTRACTOR AND STRUCTURAL STEEL SUPPLIER SHALL ADD ALL NECESSARY BOLTS, ANCHOR BOLTS, STIFFENER PLATES, STABILIZER PLATES, BRIDGING, BRACING, BEARING SEATS, COLUMN SPLICES, CLOSURES FOR OPENINGS, ETC. AS REQUIRED FOR COMPLIANCE WITH OSHA REGULATIONS.

N. GROUTS

1. GROUTS SHALL CONSIST OF PORTLAND CEMENT, WATER, AND SAND. GROUT SHALL BE PREPACKAGED, NON-METALLIC, AND NON-GASEOUS. GROUT SHALL BE NON-SHRINK WHEN TESTED IN ACCORDANCE WITH ASTM-C1107 GRADE B OR C AT A FLUID CONSISTENCY (FLOW CONE) OF 20 TO 30 SECONDS.
2. ADMIXTURES KNOWN TO HAVE NO INJURIOUS EFFECTS ON GROUT, STEEL, OR CONCRETE SHALL BE PERMITTED.
3. PROPORTIONS OF MATERIALS FOR GROUT SHALL BE BASED UPON RESULTS OF TESTS ON FRESH AND HARDENED GROUT OR PRIOR DOCUMENTED EXPERIENCE WITH SIMILAR MATERIALS AND EQUIPMENT AND UNDER COMPARABLE FIELD CONDITIONS.
4. WATER CONTENT SHALL BE THE MINIMUM NECESSARY FOR PROPER PUMPING OF GROUT. WATER TO CEMENTITIOUS MATERIAL RATIO SHALL NOT EXCEED 0.45 BY WEIGHT.
5. WATER SHALL NOT BE ADDED TO INCREASE GROUT FLOWABILITY THAT HAS BEEN DECREASED BY DELAYED USE OF THE GROUT.
6. GROUT SHALL ACHIEVE A COMPRESSIVE STRENGTH OF 8,000 PSI AT 28 DAYS.
7. EPOXY GROUT SHALL BE OF A NON-SHRINK, NON-METALLIC, NON-STAINING DESIGN.
8. EPOXY GROUT SHALL ACHIEVE A COMPRESSIVE STRENGTH OF 8,000 PSI AT 28-DAYS.

O. LIGHT GAGE METAL FRAMING

1. SECTION PROPERTIES FOR COLD-FORMED STRUCTURAL SECTIONS ARE TAKEN FROM AMERICAN IRON AND STEEL INSTITUTE "COLD-FORMED STEEL DESIGN MANUAL" AND CURRENT MANUFACTURER'S LITERATURE.
2. ALL STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, GAGE, AND SPACING SHOWN ON THE DRAWINGS.
3. PRIOR TO FABRICATION OF FRAMING, SUBMIT FABRICATION AND ERECTION DRAWINGS TO THE ENGINEER FOR REVIEW.
4. AXIALLY LOADED STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT THEIR ENDS ARE POSITIONED AGAINST THE INSIDE OF TRACK WEB PRIOR TO FASTENING.
5. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS SHALL BE A MINIMUM OF #10 AND OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.
6. TRACKS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE. COMPLETE, UNIFORM, AND LEVEL BEARING SUPPORT SHALL BE PROVIDED FOR THE BOTTOM TRACK.
7. ABUTTING LENGTHS OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, BUTT-WELDED, OR SPLICED.
8. STUDS SHALL BE PLUMBED, ALIGNED, AND SECURELY FASTENED WITH SCREWS TO THE FLANGES OF BOTH UPPER AND LOWER TRACKS. SPLICES IN STUDS SHALL NOT BE PERMITTED.
9. FRAMING OF WALL OPENINGS SHALL INCLUDE HEADERS AND SUPPORTING STUDS.
10. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS FOR FULL HEIGHT OF WALL EACH SIDE OF ALL OPENINGS. WELD STUDS TO EACH OTHER WITH 1-1/2" LONG 1/8" FILLET WELDS AT 12" O.C. EACH SIDE. PROVIDE STUD TRACK AT EACH HEAD AND SILL.
11. ALL POSTS, JOISTS, AND ACCESSORIES SHALL BE PRIMED WITH RUST INHIBITIVE PAINT MEETING THE PERFORMANCE REQUIREMENTS OF TT-P-638C, OR SHALL BE FORMED STEEL HAVING A G-60 GALVANIZED COATING CONFORMING TO ASTM A924.
12. ALL MEMBERS SHALL MEET THE REQUIREMENTS OF ASTM A607 CLASS 2 GRADE 55 WITH A MINIMUM YIELD OF 55,000 PSI.
13. WELDING, WHERE PERMITTED, IS TO BE DONE PER MANUFACTURER'S RECOMMENDATIONS ON ROD TYPE AND AMPERAGE. MINIMUM GAUGE FOR WELDING SHALL BE 54 MIL. WELDS WITHIN EXTERIOR FRAMING WALLS SHALL BE TOUCHED UP WITH ZINC RICH PRIMER.
14. ALL LIGHT GAUGE METAL FRAMING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS REGARDING MINIMUM INSTALLATION STANDARDS FOR BEARING, BRIDGING, AND BRACING.
15. LIGHT GAUGE MEMBER DESIGNATIONS ARE PER THE 2012 AISI NORTH AMERICAN SPECIFICATIONS.
16. ALL CONNECTIONS SHALL BE WELDED, SCREWED OR POWDER FASTENED AS INDICATED ON THESE DRAWINGS.

WELDS- ALL WELDED CONNECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE LAST EDITION OF THE AWS D1.3 SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS. ALL WELDS SHALL BE CLEANED AND COATED WITH RUST INHIBITIVE ZINC PAINT.

SCREWS- #10 SELF DRILLING SCREWS MANUFACTURED BY GRABBER OR HILTI AND INSTALLED PER THE FASTENER MANUFACTURER'S SPECIFICATIONS. MINIMUM 1 2" LENGTH FOR LIGHT GAGE TO LIGHT GAUGE CONNECTIONS. (MINIMUM 11 2" LENGTH FOR LIGHT GAGE TO TIMBER CONNECTIONS.) SCREWS SHALL BE SPACED AT A MINIMUM OF 1 2" BETWEEN ADJACENT SCREWS AND FROM METAL EDGES.

O. LIGHT GAGE METAL FRAMING CONT....

POWDER ACTIVATED FASTENERS (P.A.F.)- 0.138" MINIMUM SHANK DIAMETER P.A.F. MANUFACTURED BY RAMSET OR HILTI AND INSTALLED PER THE FASTENER MANUFACTURER'S SPECIFICATIONS.

PROVIDE MINIMUM 1¼" LONG P.A.F. FOR LIGHT GAGE CONNECTIONS TO CONCRETE. P.A.F. IN CONCRETE SHALL BE SPACED A MINIMUM OF 4" BETWEEN ADJACENT P.A.F. AND A MINIMUM OF 3" FROM CONCRETE EDGES. MINIMUM P.A.F. EMBEDMENT IN CONCRETE SHALL BE 1½".

PROVIDE MINIMUM 1/2" LONG P.A.F. WITH KNURLED SHANKS FOR LIGHT GAGE CONNECTIONS TO STRUCTURAL STEEL. P.A.F. SHALL BE SPACED A MINIMUM 1½" BETWEEN ADJACENT P.A.F. IN STRUCTURAL STEEL AND A MINIMUM OF ½" FROM STEEL EDGES. THE P.A.F. POINT SHALL BE DRIVEN COMPLETELY THROUGH THE BACK SIDE OF THE STRUCTURAL STEEL MEMBER.

MASONRY ANCHORS- 1/4" DIAMETER X 2" LONG SELF-DRILLING SCREW ANCHORS MANUFACTURED BY RAMSET (TAPCON) OR HILTI (KWIK CON II) AND INSTALLED PER THE FASTENER MANUFACTURER'S SPECIFICATIONS FOR LIGHT GAGE CONNECTIONS TO CONCRETE MASONRY.

DRIVE-IN EXPANSION ANCHORS (MUSHROOM HEAD)- 1/4" DIAMETER X 1¼ LONG ZAMAC NAILIN BY RAWL. METAL BY HILTI OR HAMMER SET BY RAMSET AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS. ANCHORS IN CONCRETE SHALL BE SPACED A MINIMUM OF 4" BETWEEN ADJACENT ANCHORS AND A MINIMUM OF 3" FROM CONCRETE EDGES. MINIMUM ANCHOR EMBEDMENT IN CONCRETE SHALL BE 1½".

EXPANSION ANCHORS- PROVIDE MINIMUM 3/8" DIAMETER KWIK BOLT II EXPANSION ANCHORS BY HILTI OR EQUAL, WITH A MINIMUM 2½ " EMBEDMENT INTO CONCRETE. MINIMUM SPACING BETWEEN ADJACENT EXPANSION ANCHORS TO BE 5". EXPANSION ANCHORS SHALL BE LOCATED A MINIMUM OF 3" FROM CONCRETE EDGES. USE OVERSIZE WASHERS FOR ATTACHING LIGHT GAGE WITH EXPANSION ANCHORS. INSTALL PER THE MANUFACTURER'S SPECIFICATIONS FOR LIGHT GAGE CONNECTIONS TO CONCRETE.

17. ALL MEMBERS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR SLOPE CUT AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.
18. FIELD CUTTING OF LIGHT GAGE MEMBERS SHALL BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF LIGHT GAGE MEMBERS IS NOT PERMITTED.
19. DO NOT CUT OR SPLICE LIGHT GAGE FRAMING MEMBERS UNLESS INDICATED BY THESE DRAWINGS.
20. DO NOT BEAR OR CONNECT LIGHT GAGE MEMBERS WITHIN TWELVE INCHES OF THE PUNCHED OPENINGS IN THE MEMBER WEBS UNLESS THE MEMBERS ARE REINFORCED WITH A MINIMUM 18" LONG UNPUNCHED TRACK OR STUD AT THE PUNCH OPENING. THE TRACK OR STUD REINFORCING PIECE SHALL BE THE SAME SIZE AND GAGE AS THE PUNCHED MEMBER. FASTEN THE REINFORCING PIECE TO THE MEMBER WITH A MINIMUM OF FOUR SCREWS.
21. THE LIGHT GAGE FRAMING HAS BEEN DESIGNED TO SUPPORT THE LOADS INDICATED IN THE CALCULATIONS. ADDITIONAL TEMPORARY BRACING AND SHORING SHALL BE PROVIDED AS REQUIRED TO STABILIZE THE FRAMING AND TO SUPPORT CONSTRUCTION LOADS. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT BRACING IS INSTALLED AND/OR ADDITIONAL CONSTRUCTION LOADS ARE REMOVED.

P. ROOF AND FLOOR FRAMING NOTES

1. ALL POINT LOADS ON ROOF JOISTS SHALL BEAR WITHIN 24" OF SUPPORT. ALL POINT LOADS NOT ADDRESSED ON THE DRAWINGS (I.E. PIPING) SHALL NOT EXCEED 100 POUNDS PER JOIST.
2. ALL LINES OF BRIDGING AND BLOCKING INTERRUPTED BY ROOF PENETRATIONS SHALL BE TERMINATED AT THE PENETRATION POINT(S). SUBSTITUTE DIAGONAL BRIDGING IN THE 2 ADJACENT PANELS ON EITHER SIDE OF THE PENETRATION.
3. ALL ROOF TOP UNITS (RE: MECHANICAL) SHALL BE LOCATED WITHIN THE AREAS SHOWN.

Q. STEEL JOISTS AND GIRDERS

1. STEEL JOIST SHALL BE CAMBERED PER STEEL JOIST INSTITUTE SPECIFICATIONS, STEEL JOISTS SHALL ALSO BE DESIGNED TO RESIST THE NEW WIND UPLIFT LOADS INDICATED ON UPLIFT PRESSURES DIAGRAMS ON SHEET S5.3. FOR UPLIFT CALCULATIONS, DEAD LOAD OF ROOFING SYSTEM AND STEEL DECK IS ASSUMED TO BE 10 PSF.
2. THE STEEL JOIST AND JOIST GIRDERS MANUFACTURER SHALL DESIGN THE JOIST AND JOIST GIRDERS FOR A NET UPLIFT DIAGRAM SHOWN ON SHEET S5.3, AND SHALL FURNISH THE NECESSARY FRAMING TO ENSURE PROPER JOIST AND JOIST GIRDER PERFORMANCE UNDER UPLIFT DUE TO WIND AS WELL AS GRAVITY LOADING CONDITIONS.
3. PROVIDE SPECIAL JOIST SEATS WHERE REQUIRED BY NARROW BEARING CONDITIONS.
4. STEEL JOISTS AND JOIST GIRDER SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A REGISTERED ENGINEER IN THE STATE OF LOUISIANA CONFIRMING THE DESIGN OF THE JOISTS AND JOIST GIRDERS TO SJJ SPECIFICATIONS AND FOR ALL LOADING SPECIFIED ON THE DRAWINGS. STEEL JOIST SHOP DRAWINGS SHALL BE REVIEWED BY STRUCTURAL STEEL SUBCONTRACTOR PRIOR TO ENGINEER'S REVIEW.

R. PRE-ENGINEERED COLD FORMED STEEL TRUSSES

1. ROOF TRUSSES SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS:
- a. TOP CHORD: DEAD LOAD - 17 PSF LIVE LOAD - 20 PSF SNOW LOAD-0 PSF
- b. BOTTOM CHORD: DEAD LOAD - 8PSF
- c. WIND LOADS - SEE S5.3
2. IN ADDITION TO THE 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.
3. SEE ARCHITECTURAL DRAWING FOR TRUSS PROFILES, DIMENSIONS AND BEARING CONDITIONS.
4. A REGISTERED ENGINEER IN THE STATE OF LOUISIANA 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.
5. TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTION 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".

S. FIELD DRILLED EXPANSION ANCHORS

1. FIELD DRILLED EXPANSION ANCHORS SHALL BE KWIK BOLT TZ, AS SUPPLIED BY HILTI, INC. ICC ESR-1917, OR APPROVED EQUAL.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ESR REPORT FOR THE ANCHOR AND THE RECOMMENDATIONS OF THE MANUFACTURER. A MANUFACTURER'S REPRESENTATIVE (NOT DISTRIBUTOR OR AGENT) SHALL TRAIN ALL INSTALLERS PER THE INSTALLATION INSTRUCTIONS AS LISTED IN THE ESR REPORT FOR THE ANCHOR BEING INSTALLED. IF SHOWN ON THE DRAWINGS, A MANUFACTURER'S REPRESENTATIVE (NOT DISTRIBUTOR OR AGENT) SHALL BE ON SITE TO OBSERVE INITIAL INSTALLATION OF THE ANCHORS.
3. ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE FACE OF CONCRETE. DEVIATION FROM PERPENDICULAR GREATER THAN 10 DEGREES IS UNACCEPTABLE.
4. CREATE A TEMPLATE AT EACH EXPANSION ANCHOR CONNECTION LOCATION PRIOR TO FABRICATING HOLES IN CONNECTION PLATES. TEMPLATE SHALL BE MADE BY LOCATING EXISTING REBAR WITH A HILTI PS-20 MULTI-DETECTOR OR OTHER APPROVED REINFORCEMENT DETECTION SYSTEM. ANCHORS MAY BE REPOSITIONED A MAXIMUM OF 1/2" AS REQUIRED TO AVOID CONFLICTS WITH EXISTING REINFORCING.
5. HOLES SHALL BE DRILLED IN A CONTINUOUS OPERATION. DUST SHALL BE BLOWN FROM THE HOLE USING COMPRESSED AIR.
6. DRILL HOLES WITH ROTARY IMPACT HAMMER DRILLS USING MATCHED TOLERANCE CARBIDE TIPPED BITS AND/OR CORE DRILLS USING MATCHED TOLERANCE DIAMOND CORE BITS AS SPECIFIED BY MANUFACTURER.
7. AIM WEDGES AWAY FROM ANY CONCRETE EDGES LESS THAN 9" FROM THE CENTER LINE OF THE HOLE. TIGHTEN NUTS AGAINST SMOOTH WASHERS TO THE MANUFACTURER'S RECOMMENDED TORQUE, USING A CALIBRATED TORQUE WRENCH. FOLLOWING ATTAINMENT OF 10% OF THE SPECIFIED TORQUE 100% OF THE SPECIFIED TORQUE SHALL BE REACHED WITHIN 7 OR LESS COMPLETE TURNS OF THE NUT. IF THE SPECIFIED TORQUE IS NOT ACHIEVED WITHIN THE REQUIRED NUMBER OF TURNS, THE ANCHOR SHALL BE REMOVED AND REPLACED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. ALL ABANDONED HOLES SHALL BE FILLED WITH EPOXY GROUT.
9. HOLES IN CONNECTION PLATES SHALL BE NO MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. IF LARGER HOLES ARE NEEDED FOR ERECTION PURPOSES THE CONTRACTOR SHALL PROVIDE PLATE WASHERS WELDED TO THE CONNECTION PLATE TO TRANSFER THE BOLT LOAD.
10. MEDIUM DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
- a. HILTI KWIK HUS EZ AND KWIK HUS EZ-I SCREW ANCHORS PER ICC ESR-3027
- b. HILTI KWIK BOLT-TZ EXPANSION ANCHORS PER ICC ESR-1917
- c. HILTI KWIK BOLT 3 EXPANSION ANCHORS (UNCRAKED CONCRETE ONLY) PER ICC ESR-2302
11. HEAVY DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
- a. HILTI HDA UNDERCUT ANCHORS PER ICC ESR 1546
- b. HILTI HSL-3 EXPANSION ANCHORS PER ICC ESR 1545
12. ANCHORAGE TO SOLID GROUTED MASONRY
- a. HILTI KWIK BOLT-3 EXPANSION ANCHORS PER ICC ESR 1385

T. FIELD DRILLED ADHESIVE ANCHORS

1. UNLESS OTHERWISE NOTED ON THE DRAWINGS, FIELD DRILLED ADHESIVE ANCHORS SHALL BE HIT-HY 200 INJECTION ADHESIVE ANCHORING SYSTEM AS SUPPLIED BY HILTI, INC. ICC ESR-3187, OR APPROVED EQUAL.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ESR REPORT FOR THE ANCHOR AND THE RECOMMENDATIONS OF THE MANUFACTURER. A MANUFACTURER'S REPRESENTATIVE (NOT DISTRIBUTOR OR AGENT) SHALL TRAIN ALL INSTALLERS PER THE INSTALLATION INSTRUCTIONS AS LISTED IN THE ESR REPORT FOR THE ANCHOR BEING INSTALLED. IF SHOWN ON THE DRAWINGS, A MANUFACTURER'S REPRESENTATIVE (NOT DISTRIBUTOR OR AGENT) SHALL BE ON SITE TO OBSERVE INITIAL INSTALLATION OF THE ANCHORS.
3. ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE FACE OF CONCRETE. DEVIATION FROM PERPENDICULAR GREATER THAN 10 DEGREES IS UNACCEPTABLE.
4. CREATE A TEMPLATE AT EACH ADHESIVE ANCHOR CONNECTION LOCATION PRIOR TO FABRICATING HOLES IN CONNECTION PLATES. TEMPLATE SHALL BE MADE BY LOCATING EXISTING REBAR WITH A HILTI PS-20 MULTI-DETECTOR OR OTHER APPROVED REINFORCEMENT DETECTION SYSTEM. ANCHORS MAY BE REPOSITIONED A MAXIMUM OF 1/2" AS REQUIRED TO AVOID CONFLICTS WITH EXISTING REINFORCING.
5. HOLES SHALL BE DRILLED IN A CONTINUOUS OPERATION. HOLES SHALL BE CLEANED WITH A WIRE BRUSH. DUST SHALL BE BLOWN FROM THE HOLE USING COMPRESSED AIR.
6. DRILL HOLES WITH ROTARY IMPACT HAMMER DRILLS USING MATCHED TOLERANCE CARBIDE TIPPED BITS AS SPECIFIED BY THE MANUFACTURER. DO NOT USE DIAMOND CORE BITS UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER.
7. TIGHTEN NUTS AGAINST SMOOTH WASHERS TO THE MANUFACTURER'S RECOMMENDED TORQUE, USING A CALIBRATED TORQUE WRENCH.
8. ALL ABANDONED HOLES SHALL BE FILLED WITH EPOXY GROUT.
9. HOLES IN CONNECTION PLATES SHALL BE NO MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. IF LARGER HOLES ARE NEEDED FOR ERECTION PURPOSES THE CONTRACTOR SHALL PROVIDE PLATE WASHERS WELDED TO THE CONNECTION PLATE TO TRANSFER THE BOLT LOAD.
10. NOTE MANUFACTURER'S REQUIRED CURING TIMES FOR BOTH ANCHOR SIZE AND BASE MATERIAL TEMPERATURE. THE SET ANCHOR MAY NOT BE DISTURBED OR LOADED BEFORE THE SPECIFIED CURING TIME.
11. ANCHOR WITH ADHESIVE FOR CRACKED AND UNCRACKED CONCRETE USE:
- a. HILTI HIT-HY 200 SAFE SET SYSTEM WITH THE HILTI HIT-Z ROD PER ICC ESR-3187
- b. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM (VC 20-U OR VC 40-U) SYSTEM WITH HAS-E THREADED ROD PER ICC ESR-3187
- c. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM (VC 20-U OR VC 40-U) WITH HAS-E THREADED ROD PER ICC ESR-3814
- d. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (TE-YRT) WITH HAS-E THREADED ROD PER ICC ESR-3814 FOR DIAMOND CORED HOLES.
12. REBAR DOWELING INTO CONCRETE WITH ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
- a. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM (VC 20-U OR VC 40-U) SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187
- b. HILTI HIT-HY 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM (VC 20-U OR VC 40-U) SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3814
- c. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (TE-YRT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3814 IN DIAMOND CORED HOLES

U. FIELD DRILLED ADHESIVE ANCHORS(CONT....)

12. ANCHORAGE TO SOLID GROUTED MASONRY:
- a. HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM (ICC PENDING).
- b. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR.
13. ANCHORAGE TO HOLLOW/MULTI-WYTHE MASONRY:
- a. HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM PER ICC ESR-3342
- b. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR.
- c. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.

V. METAL DECK

1. GENERAL

- a.) DESIGN, FABRICATION, AND ERECTION OF METAL DECK SHALL CONFORM TO THE STEEL DECK INSTITUTE'S CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS, LATEST EDITION.
- b.) METAL DECK SHALL COMPLY WITH THE AMERICAN IRON AND STEEL INSTITUTE STANDARD AISI S-100 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 2012 EDITION.
- c.) ALL WELDING TO METAL DECK SHALL CONFORM TO THE AWS STRUCTURAL WELDING CODE-SHEET STEEL, AWS D1.3-08
- d.) INSTALL DECK IN THREE SPAN LENGTHS WHEREVER POSSIBLE.
- e.) SUSPENDED CEILING, LIGHT FIXTURES, DUCTS, OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECK.
- f.) 2 INCH COMPOSITE DECK SHALL BEAR A MINIMUM OF 4 INCHES AT INTERIOR SUPPORTS AND 2 INCHES AT EXTERIOR SUPPORTS.
- g.) 1½ INCH ROOF DECK SHALL BEAR A MINIMUM OF 3 INCHES AT INTERIOR SUPPORTS AND 1½ INCHES AT EXTERIOR SUPPORTS.

STEEL ROOF DECK SHALL BE 1½" DEEP, 20 GAGE, GALVANIZED METAL DECK, 1.5B BY VULCRAFT OR APPROVED EQUAL WITH MINIMUM SECTION PROPERTIES AS FOLLOWS:

$I_p = 0.205 \text{ in}^4/\text{ft}$   
 $I_N = 0.213 \text{ in}^4/\text{ft}$   
 $S_p = 0.224 \text{ in}^3/\text{ft}$   
 $S_N = 0.238 \text{ in}^3/\text{ft}$   
 $F_y = 55 \text{ ksi}$

2. DECK FASTENING

- a.) LIGHT GAGE STEEL SUPPORTS: FASTEN DECK WITH HILTI #12 HWH OR APPROVED EQUAL @ 36/4 PATTERN.
- b.) STRUCTURAL STEEL SUPPORTS: FASTEN DECK WITH HILTI X-ENP-19 L15 POWDER ACTUATED FASTENERS OR APPROVED EQUAL AT 36/4 PATTERN.
- c.) PROVIDE HILTI #10 HWH OR APPROVED EQUALS/DELAP FASTENERS, 5 PER SPAN.
- d.) ENDLAPS SHALL BE A MINIMUM OF 2 INCHES.

W. STRUCTURAL MASONRY

1. SPECIFICATION

MASONRY UNITS-ASTM C-90, GRADE N. FM=2500  
MORTAR-ASTM C-270, TYPE S  
GROUT STRENGTH-3000 PSI  
REBAR USED-ASTM A615, GRADE 60

2. INSPECTION

VISUAL INSPECTION REQUIRED OF ALL REINFORCEMENT IS REQUIRED. MASONRY PRISM RESULTS TO BE SUBMITTED.

3. REINFORCEMENT

- a. SEE PLANS FOR TYPICAL REINFORCEMENT
- b. HORIZONTAL JOINT REINFORCING .....9GA LADDER TYPE AT 16" O.C. (TYPICAL)
- c. BOND BEAMS (2)-#5 HORIZONTAL BARS @ 8'-0" O.C. MAX.
- d. THERE SHALL BE A MIN. OF (1)-#5 BAR ON ALL OPENINGS IN CONCRETE WHICH IS LESS THAN 48".
- e. REINFORCING BAR LAP .....#5 & SMALLER BARS CENTERED, 50 BAR DIA. #6 & LARGER BARS CENTERED, 70 BAR DIA. #5 BARS, FACE MOUNTED, 80 BAR DIA. #6 BARS, FACE MOUNTED, 130 BAR DIA.

4. CONSTRUCTION

- a. LAP ALL BOND BEAMS WHERE STEPPED 4'-0".
- b. AT CORNERS AND WALL INTERSECTIONS, GROUT THE ADJACENT CORES WITH A VERTICAL BAR AND LAP THE BOND BEAM STEEL OR PROVIDE CORNER BARS OF EQUAL SIZE, RE: C/S25
- c. ALL DOWELS FROM THE FOUNDATION SHALL MATCH THE SIZE AND LOCATION OF VERTICAL REINFORCING IN MASONRY, UNLESS NOTED DIFFERENTLY. EXTEND DOWEL A MIN. OF 50 BAR DIAMETERS.
- d. REFERENCE THE ARCHITECTURAL DRAWINGS FOR THE TYPE OF BLOCK USED.
- e. REINFORCEMENT IN WALLS SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS OTHERWISE NOTED. SEE PLANS FOR REINFORCEMENT.

X. NON-SHRINK GROUT FOR BASE PLATES AND BEARING PLATES

1. TYPE GROUT FOR BASE PLATES AND BEARING PLATES SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT, PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS, AND FLUIDITY IMPROVING COMPOUNDS.
2. SPECIFICATIONS  
NON-SHRINK GROUT SHALL CONFORM TO CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT, CE-CRD-C621.
3. COMPRESSIVE STRENGTH  
TWENTY-EIGHT DAY COMPRESSIVE STRENGTH AS DETERMINED BY GROUT CUBE TESTS, SHALL BE: 7,500 PSI.
4. PLACEMENT  
GROUT SHALL BE PLACED IN A FLUID FLOWABLE STATE UNDER BASE PLATES THAT HAVE A FORM BUILT AROUND THEM FOR GROUT CONFINEMENT. GROUT SHALL BE CURED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
5. MINIMUM THICKNESS  
MINIMUM THICKNESS OF GROUT UNDER ALL BASE PLATES AND BEARING PLATES SHALL BE 1½", UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.

Y. DELEGATED DESIGN

1. THE FOLLOWING ELEMENTS SHALL BE CONSIDERED DELEGATED DESIGN AND SHALL REQUIRE SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS PREPARED BY PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.
- a. STOREFRONT OPENING SYSTEM.
- b. LIVE GOODS FOUNDATION AND FRAMING.



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Date: 01.20.2025

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Revisions: GENERAL NOTES

Sheet Number: S5.1



CONCRETE - SECTION 1705.3			
SPECIAL INSPECTION	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	ACI 318, CH 20, 25.2, 25.3, 26.6.1-26.6.3 IBC 1908.4	X	P
2. REINFORCING BAR WELDING:			
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	AWS D1.4; ACI 318: 26.6.4		P
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $\frac{1}{8}$ " ; AND	AWS D1.4; ACI 318: 26.6.4		P
c. INSPECT ALL OTHER WELDS.	AWS D1.4; ACI 318: 26.6.4		C
3. INSPECT ANCHORS CAST IN CONCRETE	ACI 318: 17.8.2	X	P
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.			
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	ACI 318: 17.8.4	X	C
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 11.a	ACI 318: 17.8.2	X	P
5. VERIFY USE OF REQUIRED DESIGN MIX	ACI 318: CH. 19, 26.4.3, 26.4.4 IBC 1904.1, 1904.2, 1908.2, 1908.3	X	P
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	ASTM C172; ASTM C31; ACI 318: 26.4, 26.12	X	C
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	ACI 318: 26.5 IBC 1908.6, 1908.7, 1908.8	X	C
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	ACI 318: 26.5.3 - 26.5.5 IBC 1908.9	X	P
9. INSPECT PRESTRESSED CONCRETE FOR:			
a. APPLICATION OF PRESTRESSING FORCES; AND	ACI 318: 26.10		C
b. GROUTING OF BONDED PRESTRESSING TENDONS	ACI 318: 26.10		C
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	ACI 318: 26.8		P
11. VERIFY 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.	ACI 318: 11.2		P
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER	ACI 318: 11.1.2 (B)	X	P
13. NOTE EXCEPTIONS 1.2,3,4 & 5 IN SECTION 1705.3 DISCUSSING FOOTINGS FOR BUILDING THREE STORIES OR LESS, NONSTRUCTURAL SLABS, FOUNDATIONS AND CERTAIN EXTERIOR CONCRETE FATURES WHEN PLACED ON GRADE			

MASONRY - SECTION 1705.4			
SPECIAL INSPECTION	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	TMS 602/ ACI 530.1/ ASCE 6, ART. 1.5	X	P
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING AREA IN COMPLIANCE:			
a. PROPORTIONS OF SITE-PREPARED MORTAR	TMS 602/ ACI 530.1/ ASCE 6, ART. 2.1, 2.6 A	X	P
b. CONSTRUCTION OF MORTAR JOINTS	TMS 602/ ACI 530.1/ ASCE 6, ART. 3.3 B	X	P
c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	TMS 602/ ACI 530.1/ ASCE 6, ART. 2.4 B, 2.4 H	X	P
d. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	TMS 602/ ACI 530.1/ ASCE 6, ART. 3.4, 3.6 A	X	P
e. PRESTRESSING TECHNIQUE	TMS 602/ ACI 530.1/ ASCE 6, ART. 3.6 B		P
f. PROPERTIES FOR THIN-BED MORTAR FOR AAC MASONRY	TMS 602/ ACI 530.1/ ASCE 6, ART. 2.1 C		C(B), P(C)
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
a. GROUT SPACE	TMS 602/ ACI 530.1/ ASCE 6, ART. 3.2 D, 3.2 F	X	P
b. GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	TMS 402/ ACI 530/ ASCES, SEC. 1.16 TMS 602/ ACI 530.1/ ASCE 6, ART. 2.4, 3.4	X	P
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	TMS 402/ ACI 530/ ASCES, SEC. 1.16 TMS 602/ ACI 530.1/ ASCE 6, ART. 3.2 E, 3.4, 3.6 A	X	P
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	TMS 602/ ACI 530.1/ ASCE 6, ART. 2.6 B, 2.4 G.1.b	X	P
e. CONSTRUCTION OF MORTAR JOINTS	TMS 602/ ACI 530.1/ ASCE 6, ART. 3.3 B	X	P
4. VERIFY DURING CONSTRUCTION:			
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	TMS 602/ ACI 530.1/ ASCE 6, ART. 3.3 F	X	P
b. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	TMS 402/ ACI 530/ ASCE 5, SEC. 1.16.4.3, 1.17.1	X	P
c. WELDING OF REINFORCEMENT	TMS 402/ ACI 530/ ASCE 5, SEC. 2.1.7.7.2, 3.3.3.4(c), 8.3.3.4(b)		C
d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F (4.4° C)) OR HT WEATHER (TEMPERATURE ABOVE 90° F (32.2° C))	TMS 602/ ACI 530.1/ ASCE 6, ART. 1.8 C, 1.8 D	X	P
e. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	TMS 602/ ACI 530.1/ ASCE 6, ART. 3.6 B		C
f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	TMS 602/ACI 530.1/ ASCE6, ART. 3.5, 3.6 C	X	C
g. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	TMS 602/ ACI 530.1/ ASCE 6, ART. 3.3 B.8		C(B), P(C)
5. OBSERVE PREPARATIONS OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	TMS 602/ ACI 530.1/ ASCE 6, ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4	X	P

SOILS - SECTION 1705.6			
SPECIAL INSPECTION	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY			P
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACH PROPER MATERIAL		X	P
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X	P
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL		X	C
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X	P

DRIVEN DEEP FOUNDATIONS - SECTION 1705.7			
SPECIAL INSPECTION	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1. VERIFY ELEMENT MATERIALS, SIZES, AND LENGTHS COMPLY WITH REQUIREMENTS		X	C
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TEST, AS REQUIRED			C
3. INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT		X	C
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT		X	C
5. FOR STEEL ELEMENTS, PERFORM ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2			
6. FOR CONCRETE ELEMENTS AND CONCRETE-FILLED ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3			
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE			

STEEL-SECTION 1705.2M			
SPECIAL INSPECTION	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1. STRUCTURAL STEEL: SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360	AISC 360 CHAPTER N	X	PER REF. STANDARD
a. MATERIAL VERIFICATION OF STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 6.1 OF THE CODE OF STANDARD PRACTICE	SECTION 6.1 OF THE CODE OF STANDARD PRACTICE	X	
b. WELDING, HIGH STRENGTH BOLTING, AND DETAILS IN ACCORDANCE WITH SECTION N5	AISC 360 SECTION N5	X	PER REF. STANDARD
c. STEEL DECK AND HEADED STEEL STUD ANCHOR PLACEMENT AND ATTACHMENT IN ACCORDANCE WITH SECTION N6	AISC 360 SECTION N6	X	PER REF. STANDARD
d. CUT SURFACES IN ACCORDANCE WITH SECTION M2.2	AISC 360 SECTION M2.2	X	PER REF. STANDARD
e. HEATING FOR STRAIGHTENING IN ACCORDANCE WITH SECTION M2.1	AISC 360 SECTION M2.1		
f. TOLERANCE FOR FIELD ERECTION IN ACCORDANCE WITH SECTION 7.13 OF THE CODE OF STANDARD PRACTICE	SECTION 7.13 OF THE CODE OF STANDARD PRACTICE	X	
2. COLD-FORMED STEEL DECK	SDIQA/QA		
3. COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER			

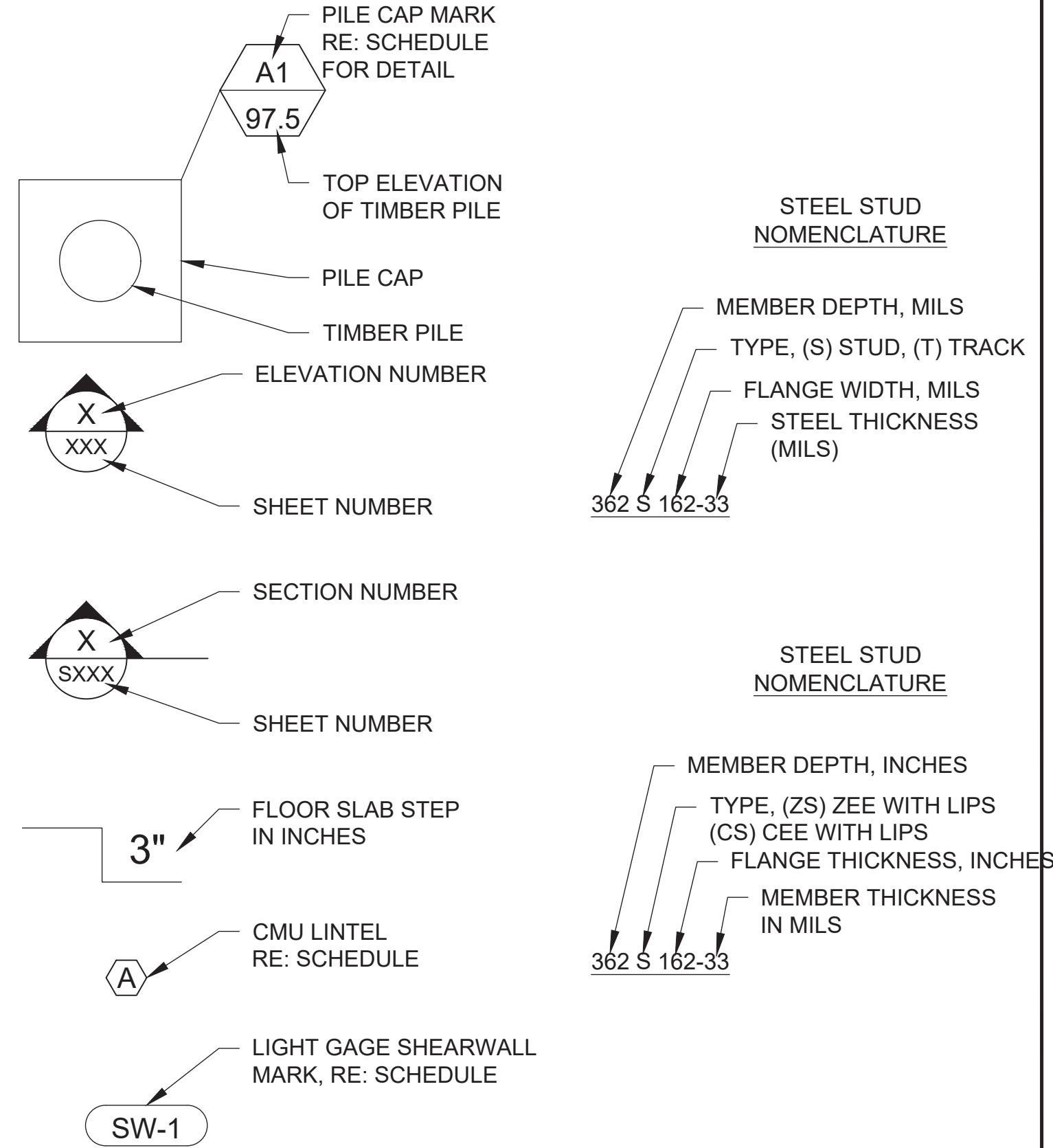
EXTERIOR INSULATION AND FINISH SYSTEMS - SECTION 1705.16			
SPECIAL INSPECTION	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1. VERIFY APPLICATION OF ALL EIFS SYSTEMS FOR CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS INCLUDING WATER-RESISTANT BARRIER, LATH, AND APPLICATION OF COATINGS		X	P
2. VERIFY APPLICATION OF STUCCO SYSTEMS FOR CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS INCLUDING WATER-RESISTANT BARRIER, LATH, AND APPLICATION OF COATINGS	(IBC 2510)	X	

FIRE-RESISTANT PENETRATIONS AND JOINTS - SECTION 1705.17			
SPECIAL INSPECTION	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1. PENETRATION FIRESTOPS: INSPECTIONS OF PENETRATION FIRESTOP SYSTEMS THAT ARE TESTED AND LISTED IN ACCORDANCE WITH SECTIONS 714.3.1.2 AND 471.4.4.2 SHALL BE CONDUCTED BY AN APPROVED INSPECTION AGENCY IN ACCORDANCE WITH ASTM E2174		X	
2. FIRE-RESISTANT JOINT SYSTEMS: INSPECTION OF FIRE-RESISTANT JOINT SYSTEMS THAT ARE TESTED AND LISTED IN ACCORDANCE WITH SECTIONS 715.3 AND 715.4 SHALL BE CONDUCTED BY AN APPROVED INSPECTION AGENCY IN ACCORDANCE WITH ASTM E2393		X	

## 2 LAP SCHEDULES

TENSION SPLICES (IN.)				
4,000 psi CONCRETE				
NORMAL REBAR				
BAR SIZE	TOP BARS		OTHERS BARS	
	A	B	A	B
#3	18	25	15	19
#4	25	33	19	25
#5	31	41	24	31
#6	37	49	29	37
#7	54	71	42	54
#8	62	81	48	62
#9	70	91	54	70
#10	79	102	61	79
#11	87	114	67	87

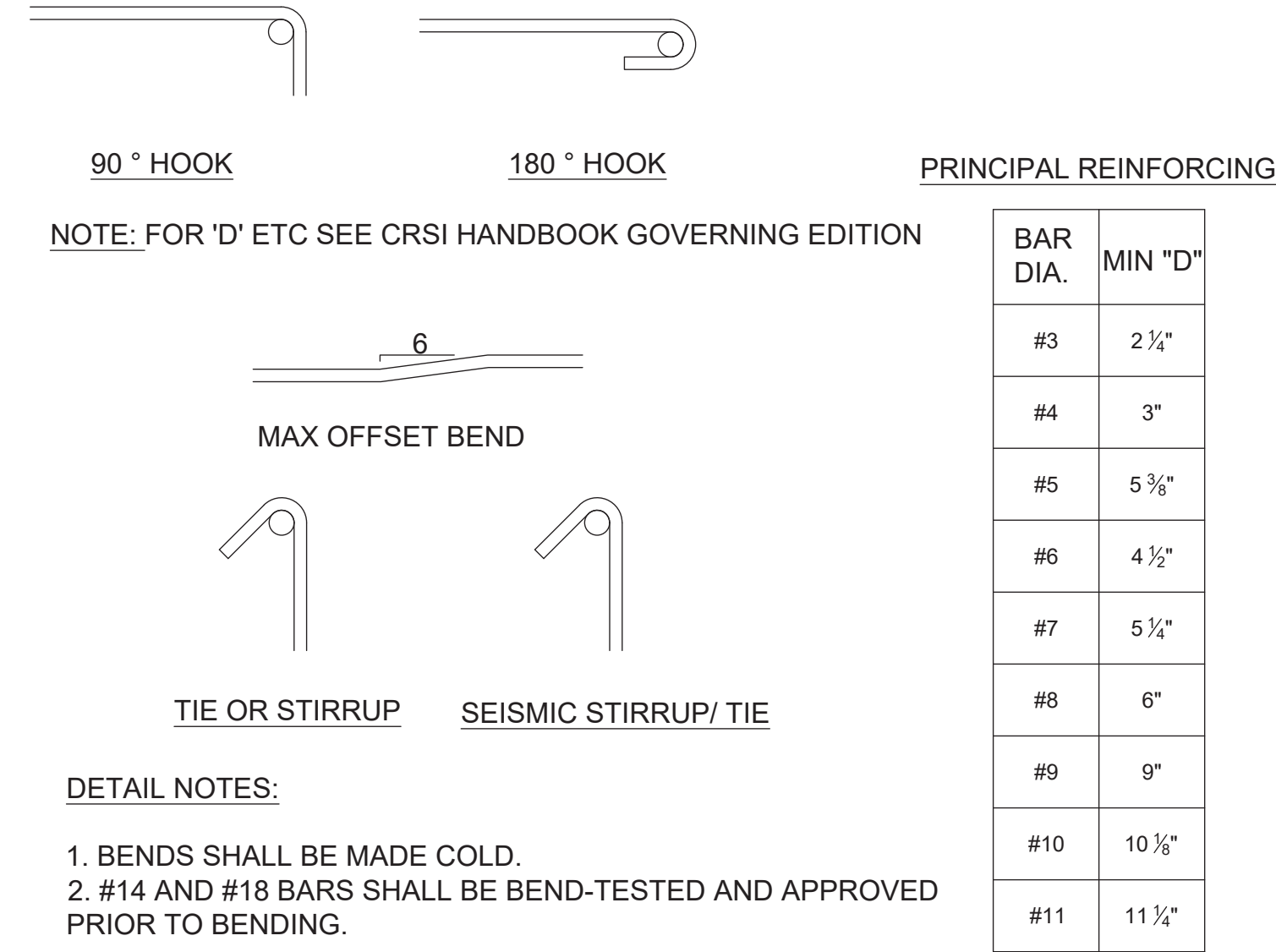
## 3 STRUCTURAL LEGEND



## 4 STRUCTURAL ABBREVIATIONS

NS - NEAR SIDE OF DETAIL AS PICTURED  
FS - FAR SIDE OF DETAIL AS PICTURED  
T/D - TOP OF DECK  
T.O.P. - TOP OF PARAPET  
T.O.F. - TO OF FOOTING  
T.O.B. - TOP OF BEAM  
T.O.S. - TOP OF STEEL  
PAF - POWDER ACTUATED FASTENERS

5 TENSION DEVELOPMENT (EMBEDMENT) LENGTH FOR STANDARD END HOOKS (GRADE 60 BARS-NORMAL WEIGHT CONCRETE GENERAL USE)				
BAR SIZE	f <sub>c</sub> =3000 psi	f <sub>c</sub> =4000 psi	f <sub>c</sub> =5000 psi	f <sub>c</sub> =6000 psi
	L <sub>dh</sub>	L <sub>dh</sub>	L <sub>dh</sub>	L <sub>dh</sub>
#3	9"	7"	7"	6"
#4	11"	10"	9"	8"
#5	1'- 2"	1'- 0"	11"	10"
#6	1'- 5"	1'- 3"	1'- 1"	1'- 0"
#7	1'- 7"	1'- 5"	1'- 3"	1'- 2"
#8	1'- 10"	1'- 7"	1'- 5"	1'- 4"
#9	2'- 1"	1'- 10"	1'- 7"	1'- 6"
#10	2'- 4"	2'- 0"	1'- 10"	1'- 8"
#11	2'- 6"	2'- 2"	2'- 0"	1'- 10"



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GENERAL NOTES  
Sheet Number: S5.2





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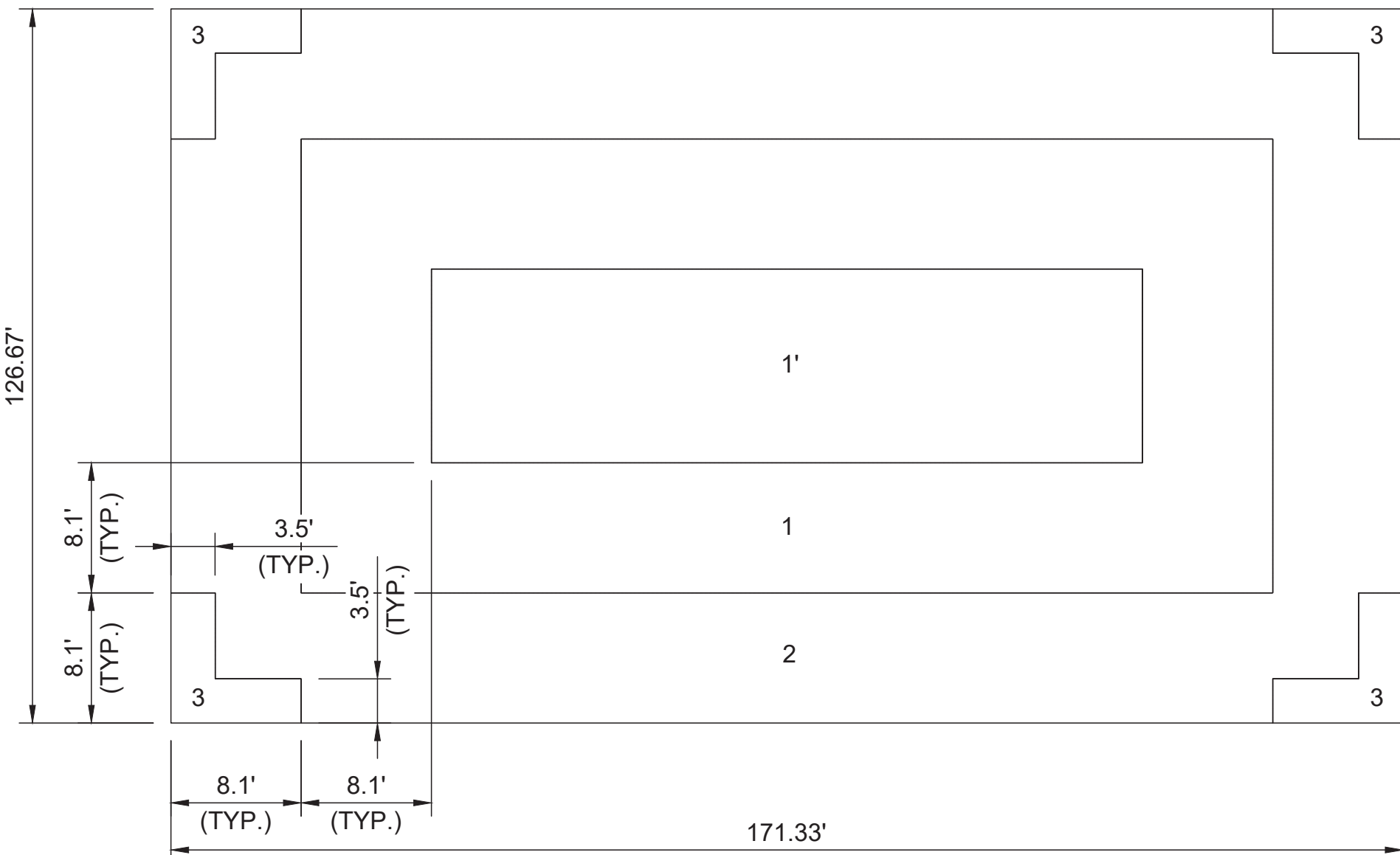
Revisions:

ABBREVIATIONS  
& WIND LOADS

S5.3

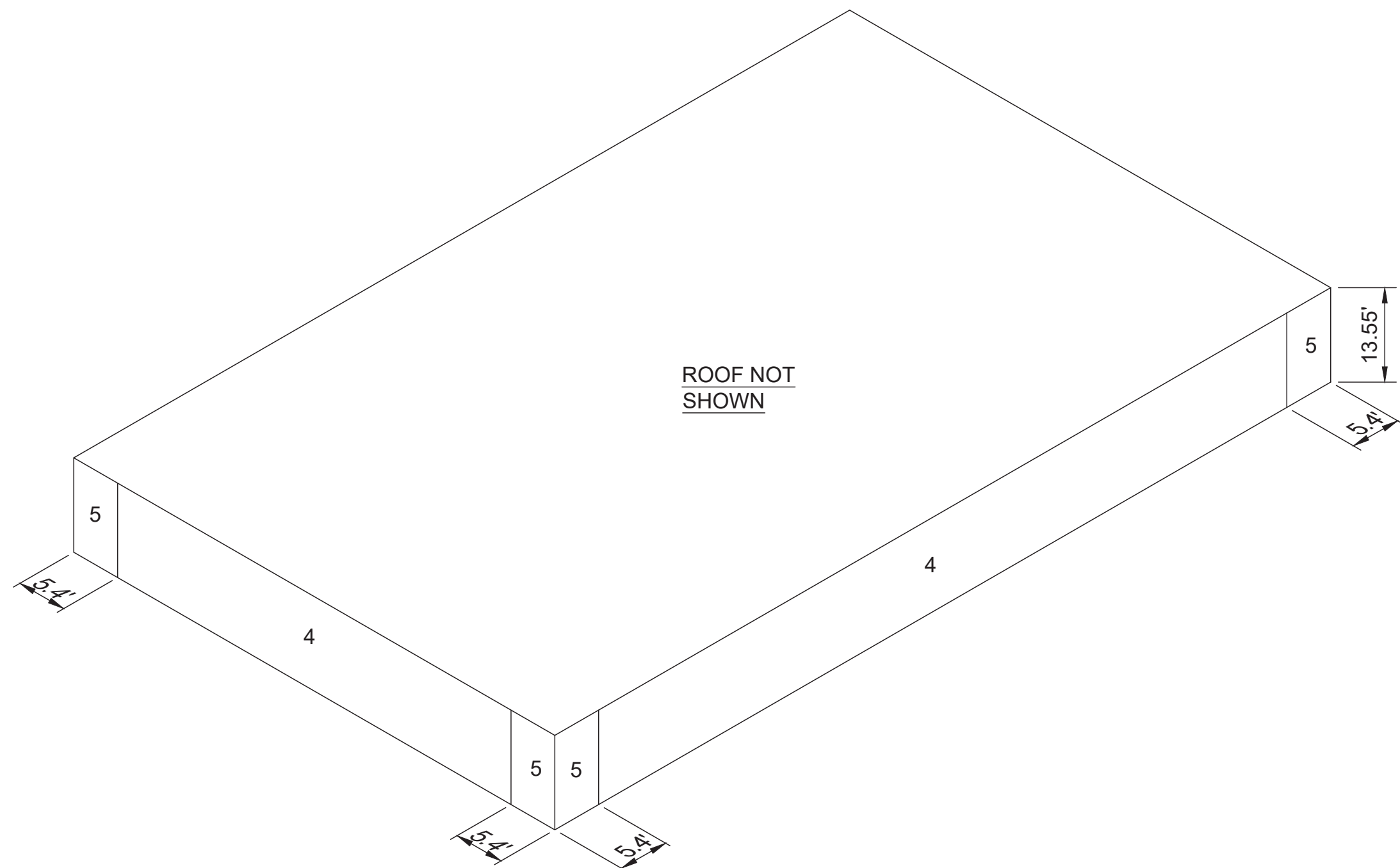
Sheet Number:

STRUCTURAL ABBREVIATIONS				(ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)	
A		H		R	
AB	ANCHOR BOLTS	HC	HOLLOW CORE	RAD.	RADIUS
A/C	AIR CONDITIONING	HEX	HEXAGONAL	RD	ROOF DRAIN
ADD'L	ADDITIONAL	HGT	HEIGHT	REF	REFERENCE, REFER TO
ADJ.	ADJACENT	HORIZ.	HORIZONTAL	REINF	REINFORCE (D) (ING) (MENT)
AL	ALUMINUM	HP	HIGH POINT	REQ'D	REQUIRED
ANOD	ANODIZED	HS	HIGH STRENGTH	REV	REVISION, REVISE
ARCH	ARCHITECT(URAL)	HSA	HEADED STUD ANCHOR	RTU	ROOFTOP UNIT
		HSB	HIGH STRENGTH BOLT	RW	RETAINING WALL
		HVAC	HEATING, VENTILATING AND AIR CONDITIONING		
B		I		S	
BC	BOTTOM CHORD	ID	INSIDE DIAMETER	S	SOUTH
BF	BOTH FACES, BRICK FLOORING	IN	INCH(ES)	SCHED	SCHEDULE
BL	BRICK LEDGE	INSUL	INSULATION	SECT	SECTION
BLDG.	BUILDING	INT.	INTERIOR	SJ	SAW JOINT
BM.	BEAM	INFO.	INFORMATION	SIM	SIMILAR
BOT.	BOTTOM			SM	SHEET METAL
BP	BASE PLATE	J		SP	SPACE(S)
BRDG	BRIDGING	K		SPEC(S)	SPECIFICATION(S)
BRG.	BEARING	JST	JOIST	SPT	SUPPORT
BRG. PL	BEARING PLATE	JT	JOINT	SQ	SQUARE
BS	BOTH SIDES	L		SQ FT	SQUARE FOOT
BVL	BEVELED	K	KIP (1000 POUNDS)	SQ IN	SQUARE INCH
BW	BOTH WAYS	KB	KNEE BRACE	SS	SANITARY SEWER
		KSF	KIPS PER SQUARE FOOT	SST	STAINLESS STEEL
		KSI	KIPS PER SQUARE INCH	STD	STANDARD
		KLF	KIPS PER LINEAR FOOT	STIFF.	STIFFENER
C		M		STL	STEEL
C/C	CENTER TO CENTER	LATL	LATERAL	STL JST	STEEL JOIST
CF	CUBIC FEET	LB, #	POUND	STL PL	STEEL PLATE
CHFR	CHAMFER	N		STR	STRAIGHT
CJ	CONSTRUCTION JOINT	NA	NORTH	STRUCT	STRUCTURAL
CL	CENTERLINE	NTS	NOT IN CONTRACT	STRUCTL	STRUCTURAL STEEL
CLR.	CLEAR			SYM	SYMMETRICAL
COMP	COMPOSITE	O			
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER		
COL.	COLUMN	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN		
CONC.	CONCRETE	O/O	OUT TO OUT		
CONN.	CONNECTION	OH	OPPOSITE HAND		
CONST.	CONSTRUCTION	OPNG.	OPENING		
CONT.	CONTINUOUS (ATION)	OPP.	OPPOSITE		
CRS	COLD ROLLED STEEL	OPT.	OPTIONAL		
CTR.	CENTER	P			
		PIC	PRECAST CONCRETE		
		PCF	POUNDS PER CUBIC FOOT		
		PERIM	PERIMETER		
		PERP.	PERPENDICULAR		
		PL	PLATE		
		PLF	POUNDS PER LINEAR FOOT		
		PLYWD	PLYWOOD		
		PREFAB	PREFABRICATED		
		PSF	POUNDS PER SQUARE FOOT		
		PSI	POUNDS PER SQUARE INCH		
		PVC	POLYVINYL CHLORIDE		
D		Q			
DBA	DEFORMED BAR ANCHOR	QTY.	QUANTITY		
DBL	DOUBLE				
DEG	DEGREES				
DET.	DETAIL				
DIA.	DIAMETER				
DIAG.	DIAGONAL				
DIM.	DIMENSION				
DL	DEAD LOAD				
DN	DOWN				
DWG.	DRAWING(S)				
DWL	DOWEL				
E					
E	EAST				
EF	EACH FACE				
EJ	EXPANSION JOINT				
EL	ELEVATION				
ELEC.	ELECTRICAL				
ELEV.	ELEVATOR				
ENGR	ENGINEER				
EQL. SP.	EQUALLY SPACED				
EQUIP.	EQUIPMENT				
EQUIV.	EQUIVALENT				
EW	EACH WAY				
EXP.	EXPANSION				
EXIST.	EXISTING				
EXT.	EXTERIOR				
F					
FB	FLAT BAR				
FD	FLOOR DRAIN				
FDN.	FOUNDATION				
FIN. FLR.	FINISH FLOOR				
FIN. GR.	FINISH GRADE				
FLG.	FLANGE				
FLR.	FLOOR				
FOS	FACE OF STUDS				
FS	FAR SIDE				
FT.	FOOT, FEET				
FTG.	FOOTING				
G					
G.A.	GAGE				
GAL.	GALLON				
GALV.	GALVANIZED				
GLU LAM	GLUE LAMINATED				
GR. BM.	GRADE BEAM				
GRTG.	GRATING				
T					
T	TENSION				
T & B	TOP & BOTTOM				
TB	TOP OF BEAM				
TC	TOP OF CONCRETE				
TEMP	TEMPORARY				
THD	THREAD(ED)				
THK	THICKNESS				
THRU	THROUGH				
TM	TOP OF MASONRY				
TOP	TOP OF PARAPET				
TS	TENSILE STRENGTH				
TSL	TOP OF SLAB				
TOS	TOP OF STEEL				
TYP	TYPICAL				
U					
UNIF	UNIFORM				
UNO	UNLESS NOTED OTHERWISE				
V					
VERT	VERTICAL				
W					
W	WEST				
W/	WITH				
W/O	WITHOUT				
WF	WIDE FLANGE				
WH	WATER HEATER				
WL	WIND LOAD				
WP	WORK POINT				
WT	WEIGHT, STRUCTURAL TEE CUT FROM WIDE FLANGE BEAM				
WPRF	WATERPROOFING				
WWR	WELDED WIRE REINFORCEMENT				
X					
XFMR	TRANSFORMER				



BUILDING PLAN - MONOSLOPE ROOF

SCALE: N.T.S.



WALL ZONES

SCALE: N.T.S.

WIND DESIGN CRITERIA	
ASCE 7-16 ULT. WIND SPEED	151 mph
RISK CATEGORY	II
EXPOSURE CATEGORY	C
ENCLOSURE CLASSIFICATION	PARTIALLY ENCLOSED

ROOF 1				
EFFECTIVE AREA	ZONE 1	ZONE 1'	ZONE 2	ZONE 3
<10 ft²	36/-95 psf	36/-95 psf	36/-121 psf	36/-159 psf
25 ft²	35/-88 psf	35/-88 psf	35/-112 psf	35/-141 psf
50 ft²	33/-83 psf	33/-83 psf	33/-105 psf	33/-127 psf
>100 ft²	32/-78 psf	32/-78 psf	32/-98 psf	32/-114 psf

WALL ZONES		
EFFECTIVE AREA	ZONE 4	ZONE 5
<10 ft²	62/-65 psf	62/-77 psf
50 ft²	57/-61 psf	57/-67 psf
200 ft²	53/-57 psf	53/-59 psf
>500 ft²	50/-54 psf	50/-54 psf



CONCRETE SPECIFICATIONS

PART 1 - GENERAL

1.01 QUALITY ASSURANCE

- A. Ready-Mix Concrete Supplier: A firm experienced in producing ready-mixed concrete that complies with ASTM C94 requirements for production facilities and equipment. Comply with ACI 301, "Specification for Structural Concrete."
1. Manufacturer certified according to NRMCA's "Certification of Ready-Mixed Concrete Production Facilities." Certification shall not be more than twelve months old.
- B. Concrete Contractor shall select and submit for approval by the Owner, a list of qualified concrete contractors, a minimum of three similar and successful projects that clearly indicates the ability to successfully perform the work and to achieve the interior slab on ground tolerances required in this specification. The Concrete Contractor's team shall have participated in the majority of the referenced projects, and that team shall remain the same throughout the duration of this project. Concrete Contractor's qualification shall be submitted as part of the bid package. The Owner has rights to reject the Concrete Contractor.
- C. Testing Agency Qualifications: An Independent agency, qualified according to ASTM C1077 and ASTM E829 for testing indicated, as determined according to ASTM E584.
1. Personnel conducting field tests shall be qualified as ACI Concrete Field-Testing Technician, Grade 1, according to ACI CP-01 or an equivalent certification program.
2. Personnel performing laboratory tests shall be ACI-certified Concrete Strength Testing Technician and Concrete Laboratory Testing Technician - Grade I. Testing Agency laboratory supervisor shall be an ACI-certified Concrete Laboratory Testing Technician - Grade II.
- D. Trained Applicator: General contractors bidding or negotiating a Tractor Supply project shall contact Euclid Chemical to obtain a list of Trained Applicators located within the geographic region of the project. General Contractors shall solicit and accept pricing only from those applicators as provided by Euclid Chemical. **The Trained Applicator selected for the initial application of joint filler and liquid densifier/sealer shall be the same as for the polishing process and additional application of liquid densifier/sealer.**
1. Philip Brandt: Euclid Chemical - 877-438-3826 / pbrandt@euclidchemical.com
- E. Concrete Slab on Ground Pre-Installation Conference (Tractor Supply Requirement): At least 30 days prior to the start of concrete slab construction, the general contractor shall conduct a meeting to review the proposed concrete mix design and to discuss the required methods and procedures to achieve the requirements of this specification. The general contractor shall send a pre-concrete conference agenda to all attendees 10 days prior to the scheduled date of the conference.
1. The general contractor shall require responsible representatives of every party concerned with the concrete work to attend the conference, including, but not limited to the following:
- a. General Contractor: Project Manager and Superintendent
- b. Ready-mix Concrete Producer: Quality Control Manager
- c. Concrete Contractor: Foreman
- d. Testing Agency: Project Manager and Field Rep for concrete mixes, quality control, floor tolerance testing, etc.
- e. Owner Representative: If Required
- f. Trained Applicator: Liquid densifier sealer and joint filling applicator
- Phil Brandt: Euclid Chemical (877-438-3826) / pbrandt@euclidchemical.com
- Minutes of the meeting shall be recorded, typed, and printed by the general contractor and distributed to all concerned parties, including the architect, structural engineer, and Tractor Supply Project Manager, within three days of the meeting.
3. The minutes shall include a statement by the ready-mix concrete supplier stating that the proposed concrete mix designs will produce the concrete quality required by these specifications.
4. The minutes shall include a statement by the concrete contractor that the proposed concrete mix designs will provide appropriate workability and setting times, to ensure that the concrete contractor can achieve the requirements of this specification.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Concrete materials:
1. Portland Cement: ASTM C150/C150M, Type VII, or ASTM C-595, Type I. (Portland Limestone Cement). Use one brand of cement throughout the project.
- Coarse and Fine Aggregates: ASTM C 33. Combined aggregate gradation for slabs on grade and other designated concrete shall be 5% - 10% for large top size aggregates (1 1/2") or 8% - 22% for smaller top size aggregates (3/4" or less) retained on each sieve below the top size and above the No. 100 sieve.
- a. Footings and Piers: Unless indicated otherwise on drawings, footings and piers shall have a maximum aggregate size of 1" (#57 stone), and beams 3/4" (#67 stone).
- b. Interior Slab on Ground: Unless indicated otherwise on drawings, interior slab on ground shall have a maximum coarse aggregate size of 1" (#57 stone).
- c. Exterior Slab on Ground: Unless indicated otherwise on drawings, exterior slab on ground shall have a maximum coarse aggregate size of 1" (#57 stone).
2. Water: complying with ASTM C94.
3. Air-Entraining Admixture (Interior Slab on Ground): Air-entraining admixture shall not be used for interior slab on ground concrete work.
4. Air-Entraining Admixture (Exterior Slab on Ground Concrete): ASTM C-260. Admixture manufacturer shall provide written certification that the air-entraining admixture is compatible with other required admixtures. All exterior slab on ground shall be air-entrained (4% - 6%). Acceptable products: Euclid Chemical AEA-92 or Air 40; Master Builders Micro Air; W.R. Grace Darvaire or Darex.
5. Water-Reducing Admixture: ASTM C494, Type A containing not more than 0.05% chloride ions. Acceptable products: Euclid Chemical Econ series; Master Builders Pozzolith series; W.R. Grace WRDA or Darcem series.
6. Water-Reducing, Retarding Admixture: ASTM C494, Type D containing not more than 0.05% chloride ions. Acceptable products: Euclid Chemical Retarder 75; Master Builders Pozzolith series or Delvo; W.R. Grace Darvaire.
7. High Range Water-Reducing Admixture (Superplasticizer): ASTM C494, Type F or G containing not more than 0.05% chloride ions. Acceptable products: Euclid Chemical Econ 37; Master Builders Rheobuild 1000; W.R. Grace Darcem-100.
8. Water-Reducing, Non-Corrosive Accelerating Admixture: ASTM C494, Type C or E containing not more than 0.05% chloride ions than are present in municipal drinking water. The admixture manufacturer must have long-term, non-corrosive test data from an independent testing laboratory (or at least a year's duration) using an acceptable accelerated corrosion test method such as that using electrical potential measures. Acceptable products: Euclid Chemical Accelguard 80/90 or NCA; Master Builders NC534 or Pozzotite 20; W.R. Grace Polarseal.
9. Prohibited admixtures:
- a. Calcium chloride or admixtures containing more than 0.05% chloride ions are not permitted.
- b. Fly ash is only permitted in exterior slab on ground subject to Alkali Silica Reactivity (ASR); up to 20% exchange by weight.
10. Macro-Synthetic fibers (Exterior Slab on Ground Concrete): Comply with ASTM C1116. "Structural" fibers shall be a patented coarse monofilament, self-fibrillating, polypropylene/polyethylene fiber with a minimum tensile strength of 72ksi and minimum length of 2 inches.
- a. Acceptable macro-synthetic fiber (No Substitutions): "Tuf-Strand SF" by Euclid Chemical, Phil Brandt 877-438-3826 / pbrandt@euclidchemical.com
- B. Related Materials:
1. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.
- a. Acceptable manufacturer: "Eucobar" by Euclid Chemical.
2. Interior Slab on Ground Curing: ASTM C309 with a maximum VOC content of 350g/l. The interior slab on ground shall be cured using a reduced odor, dissipating or removable liquid membrane forming curing compound.
- a. Acceptable manufacturer: "Kurex DR VOX" or "Kurex DR 100" by Euclid Chemical.
- b. Interior Slab on Ground: Unless indicated otherwise on drawings, interior slab on ground shall have a maximum coarse aggregate size of 1" (#57 stone).
- c. Exterior Slab on Ground: Unless indicated otherwise on drawings, exterior slab on ground shall have a maximum coarse aggregate size of 1" (#57 stone).
3. Interior Slab on Ground Semi-Rigid Polyurea Joint Filler: Comply with ACI 302, shall be a two (2) component, 100% solids, UV resistant compound, with minimum shore "A" hardness of 80. Color to match adjacent concrete surfaces.
- a. Acceptable manufacturer: "QUIKJOINT UVRF" by Euclid Chemical.
4. Interior Slab on Ground Liquid Densifier/Sealer: Sodium silicate containing at least 24% solids by weight.
- a. Acceptable manufacturer: "Eucos Diamond Hard" by Euclid Chemical.
- b. Project service: General Contractor shall contact the Manufacturer prior to bidding for pricing and application requirements, and at least 10 days prior to application of liquid densifier and sealer, for jobsite service. If necessary, the representative will be on site during the first application of liquid densifier/sealer.
5. Exterior Slab on Ground Curing: ASTM C1315 with a maximum VOC content of 700 g/L. All exterior slab on ground shall be cured using a liquid membrane-forming curing compound.
- a. Acceptable manufacturer: "Super Rez Seal" or "Super Diamond Clear VOX" by Euclid Chemical.
6. Exterior Slab on Ground Urethane Joint Sealant: ASTM C920-06, Type S, Grade NS, and Class 25 Industrial gun grade polyurethane sealant shall exhibit a shore "A" hardness of 40 and an elongation of 250%.
- a. Acceptable manufacturer: "Eucolastic 1 NS/SL" by Euclid Chemical.

2.02 CONCRETE MIXES

- A. Comply with ACI 301 requirements for workability. Concrete mixes shall be proportioned according to ACI 301, for normal-weight concrete determined by either laboratory trial mix or field test data.
- B. Compressive strength:
1. Interior Slab on Ground: 4000 psi @ 28 days, with a maximum water/cement ratio of 0.53, unless otherwise indicated on the drawings.
2. Exterior Slab on Ground: 4000 psi @ 28 days, with a maximum water/cement ratio of 0.45, unless otherwise indicated on the drawings.
3. Concrete materials included in the mix design shall be the same materials provided to the project and shall be prepared by an independent testing laboratory approved by the Owner. Per ACI requirements, if sufficient concrete backup data is not available, the laboratory mix shall exceed the desired job strength of concrete by 1,200 psi.
- C. Slump: Concrete shall have a maximum slump of 5½" for the interior and exterior slabs on ground. Unless indicated on drawings, all other concrete shall not exceed a 4" slump.
- D. Macro-synthetic fiber addition: All exterior slab on ground concrete shall contain the specified macro-synthetic fiber used at a rate of no less than 3.0 lbs./cyd. Actual fiber dosage may vary based on job-site conditions and shall be calculated by strength equivalency to conventional reinforcement requirements. Required information may include, but not be limited to site prep, subbase, and concrete properties, curing, and loading conditions. The "Engineer of Record" shall contact Euclid Chemical to discuss actual project conditions and the resultant required fiber dosage rate. Fibers may be added at plant location or jobsite and shall be mixed in concrete for a minimum of 4 minutes. Euclid Contact: Mike Mahoney: 216-692-8301.
- E. Adjustment to Concrete Mixes: Mix adjustments may be requested by the general contractor when characteristics of materials, job conditions, weather, test results or other circumstances warrant; at no additional cost to the Owner and as accepted by the Owner. Laboratory test data for revised mix and strength results must be submitted to and accepted by the Owner prior to work. Testing Agency and Concrete Contractor shall verify that the concrete mix design will produce concrete that will meet the specifications for this project. In addition, the General Contractor and Concrete Contractor shall verify that the workability, finishability and setting times are appropriate for concrete installations. Placement shall be made by concrete truck chute. If concrete pumping is required, the proportions established above shall not be altered to suit the capabilities of the pumping equipment. For concrete containing macro-synthetic fibers, additional water reducer may be necessary. The addition of water is not permitted into concrete mixes after the addition of macro-synthetic fibers.
- F. Interior Slab on Ground Concrete: Concrete shall be designed to meet 4000 psi compressive strength @ 28 days and exhibit ≤0.04% shrinkage @ 28 days. The mix shall contain approximately 12 cubic feet of 1" top size aggregate (#57 stone), the specified water reducing admixture, and achieve a w/cm ratio of 0.53 (max.). Air-entrainment is prohibited. Proposed mix design shall be similar to the following:

Interior Slab on Ground Prototype mix:

- a. Materials Cement 517-564 lbs.
- b. Fly ash/slag 12 cubic feet +/- .50 (#57 stone)
- c. Coarse aggregate 7 cubic feet +/- (adjust as necessary)
- d. Fine aggregate 274 - 298 lbs. (or less)
- e. Air content (Entrained Air Only) 3.0% (max.)
- f. Water Reducer (Type A/F) 3oz.-1.0oz./100wt +/- (Mid-Range)
- g. W/CM Ratio 0.53 (max.)
- h. Initial slump (water) 2"
- i. Final slump (with water reducer) 5.5" (max.)
- j. Maximum Shrinkage ≤0.04% @ 28 days

- G. Exterior Slab on Ground Concrete: Concrete shall be designed to meet 4000 psi compressive strength @ 28 days and exhibit ≤0.04% shrinkage @ 28 days. The mix shall contain approximately 12 cubic feet of 1" top size aggregate (#57 stone), the specified water reducing admixture and achieve a w/cm ratio of 0.45 (max.). Air-entrainment shall be as specified. Proposed mix design shall be similar to the following:

Exterior Slab on Ground Prototype mix:

- a. Materials Cement 517-564 lbs.
- b. Fly ash/slag 12 cubic feet +/- .50 (#57 stone)
- c. Coarse aggregate 7 cubic feet +/- (adjust as necessary)
- d. Fine aggregate 274 - 298 lbs. (or less)
- e. Air content (Entrained Air) 3.0% (max.)
- f. Water Reducer (Type A/F) 3oz.-1.0oz./100wt +/- (Mid-Range)
- g. W/CM Ratio 0.45 (max.)
- h. Initial slump (water) 2"
- i. Final slump (with water reducer) 5.5" (max.)
- j. Macro Synthetic Fiber (Tuf-Strand SF) 3 lbs / cubic yard (min.)
- k. Maximum Shrinkage ≤0.04% @ 28 days

PART 3 - EXECUTION

3.01 INSTALLATION (GENERAL)

- A. Base Material: Local state department of transportation approved road base material with 100 percent passing the 1.5" (38 mm) sieve, 15 percent to 55 percent passing the No. 4 (4.75 mm) sieve, and less than 12 percent passing the No. 200 sieve. In-place "crusher run" base type material to the minimum compacted thickness as indicated on the construction documents. Crushed stone shall be compacted to 98% Modified Proctor density in accordance with ASTM D1557. The in-place density shall be tested for compliance no more than 48 hours prior to concrete placement using ASTM D1556, ASTM D2167, or ASTM D2922. One copy of test results shall be forwarded to the Owner.
- B. Formwork: Design, construct, erect, shore, brace, and maintain formwork according to ACI 301.
1. Form Work: Form all slabs, stairs and other formed concrete with metal forms or ¾" plywood. For exposed surfaces use forms with an undamaged face. Form ties used shall be snap ties. Concrete release agent shall be a VOC compliant, light viscosity, non-staining oil.
- C. Vapor Retarder: ASTM E1643 (If indicated on drawings): Install, protect, and repair vapor-retarder sheets; place sheets in position with longest dimension parallel with direction of pour.
1. Plastic vapor retarder for concrete floor slab shall be 10-mil (minimum) polyethylene. Seal vapor retarder completely around all pipes and conduits. Inspect vapor retarder thoroughly and repair all punctures and tears immediately prior to placing concrete. All laps shall be 18" minimum and sealed with a completely continuous tape.
- D. Steel Reinforcement (If indicated on drawings): Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
- a. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.
- b. Install all anchors, ties, chairs, and other supports as per ACI 301/302 requirements, to ensure reinforcing is supported at proper locations. All reinforcing shall be wired in place using #16 annealed wire. Wood or brick chair bars are not acceptable.
- c. Welded wire fabric mesh (If indicated on drawings) shall be lapped a minimum of 6" at side laps and secured with the wires no more than 4 feet on center.

3.02 CONCRETE PLACEMENT

- A. Carbon Monoxide / Carbon Dioxide Exposure: If the building is enclosed and the interior slab on ground is placed last, general contractor shall be responsible for monitoring interior slab on ground exposure to excessive exhaust gases containing carbon dioxide (CO2) or carbon monoxide (CO). To minimize potential damage to the interior slab on ground during placement and curing periods, maximum CO2 levels shall be 4,500 parts per million and maximum CO levels shall be 15 parts per million at concrete surface within 5 feet of any source of exhaust gases. Unvented combustion heaters shall not be in operation during concrete placement, and equipment inside the building during concrete placement shall be limited to the equipment necessary to place and finish concrete. Only one concrete truck shall be in the building at any given time, and under no circumstance shall there be any earth moving equipment, dump trucks, grading equipment, or any other motorized equipment in operation until after the interior slab on ground is placed and protected by specified curing method. Carbon Monoxide and Carbon Dioxide shall be checked using an appropriate meter from a company similar to the following: CEA Instruments, Inc. Phone (201-967-5660); website: HYPERLINK "http://www.ceainstr.com" www.ceainstr.com.
- B. Comply with requirements in ACI 301 for measuring, mixing, transporting, and placing concrete.
1. Cooperate with all other trades, Confer with electrical, mechanical, plumbing, carpenters, steel workers, etc. Make sure that all sleeves, anchor, insert, conduit, floor boxes, pipes, fittings, and other items are installed before placing concrete. Make necessary adjustments to the concrete mix design.
2. General Contractor shall ensure the accuracy, placement, and alignment of all under-slab work. The placement of all boxes shall be square, level, and true in all respects.
- C. Concrete shall be mixed and delivered in accordance with the requirements of ASTM C94.
- D. Comply with ACI 305, "Hot Weather Concrete," and ACI 306, "Cold Weather Concrete" for protection during placing, finishing, and curing.
- E. Form-Release Agent: Coat all removable wood and metal forming with a VOC compliant, non-staining, concrete form-release agent and allow excess liquid to drain off before forms are placed.
- F. Transport: Place at point of use and consolidate with care without vibrator. Do not allow concrete to segregate. Maximum free fall for concrete is 3 feet. A vibrator is required for concrete in concrete in walls, piers, footings, and turn downs.
- G. Concrete Placement: Place on firm, undisturbed earth, or properly compacted fill. Consolidate by vibrating without segregation. Do not place concrete when temperature is 40°F and falling or when freezing weather is predicted within 24 hours.
1. Place concrete within the minimum temperature range as specified in ACI 301.
2. Protect concrete as required in ACI 301.
3. Concrete shall not contain Type III, high early strength cement, calcium chloride, corrosive accelerators, or airfreeze.
4. Concrete shall be placed before initial set occurs, and in no event after it has contained its water content for more than 1½ hours.
5. Unless otherwise specified, all concrete shall be placed upon clean, damp, smooth surfaces that are free from running water. Subgrade and base shall be properly consolidated and ruff-free.
6. Concrete shall not be placed upon soft mud or dry porous earth. The concrete shall be consolidated and worked, in an approved manner, into all corners and angles of the forms and around reinforcement and embedded fixtures in such a manner as to prevent segregation of the coarse aggregate as required in ACI 301.
- H. During concrete placement, carefully protect all masonry and metal building walls by covering with waterproof paper. Water may be added in accordance with ASTM C94. Water shall only be added at the job site under the direct supervision of a representative from the Testing Agency. Do not add more water than is indicated as allowable on the batch ticket. Water added at the job site shall be documented on the batch ticket.

3.03 FORMED SURFACE FINISHES

- A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defective areas repaired and patched, and fins and other projections exceeding ¼" in height shall be rubbed down or chipped off.
1. Apply to concrete surfaces not exposed to public view.
- B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner and with tie holes and defective areas repaired and patched.
1. Completely remove fins and other projections. All exposed concrete walls are to be grouted and hand rubbed.
2. Apply to concrete surfaces exposed to public view or to be covered with a coating or covering material applied directly to concrete, such as waterproofing, damp-proofing, veneer plaster, or painting.
3. Do not apply rubber-formed finish to rough-formed finish.
- C. Apply smooth-rubbed finish, defined in ACI 301, to smooth-formed finished concrete.
- D. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

3.04 CONCRETE FINISHES AND TOLERANCES

- A. General: Unless otherwise noted by Owner, interior slab on ground shall be cast in one continuous placement. Concrete shall be placed, screeded, re-straightened, and finished to meet the specified F<sub>r</sub> and F<sub>t</sub> tolerance requirements. Interior slab on ground machine trowel finish shall be achieved within a 2" tolerance of all walls, columns, and partitions. Do not wet concrete surfaces while finishing concrete.
1. Laser screeds (required), vibrating screeds, highway straightedges and wood or resinous bull floats shall be used to initiate screeding and floating process to form a uniform and open-textured surface plane before excess moisture or bleed water appears on the surface. A back-up laser screed is required during concrete placement of the interior slab on ground. Remove excess water before starting floating operations. Do not further disturb surfaces before starting finishing operations. Highway straightedge operations shall continue before, during, and after traveling operation, until the minimum specified floor tolerances are achieved.
2. Highway straightedge operations shall continue before, during, and after traveling operation, until the minimum specified floor tolerances are achieved.
3. Trowel finish (Interior Slab on Ground): Trowel surfaces with trowel machines equipped with adjustable blades. Trowel the surface sufficiently to produce a smooth, tight, abrasion resistant surface. Care shall be taken not to overwork or burn the surface. Use a wide finish style steel reinforced blades on final passes. Finishing blades shall be in new condition and completely clean of any deleterious materials.
4. Trowel finish (Other Floor Areas): Apply a hard trowel finish to surfaces indicated and to floor and slab surfaces exposed to view or to be covered with resilient flooring, carpet, ceramic, or quarry tile set over a cleavage membrane, paint, or another thin film-finish coating system.
5. Heavy broom finish: Side yard, main entry and exit vestibules, cart storage, ramps, aprons, and walks shall receive a heavy broom finish.
6. Protection: Care shall be taken to protect newly placed concrete. Entrances shall include clean floor mats to prevent mud stains and all equipment on the floor shall be diapered to prevent spills. Cutting oils are not allowed on the interior slab on ground at any time during the construction process.
- B. Pet Wash Area:
1. Concrete Finish and Curing: Do not broom finish this area. Place and finish concrete as specified in paragraph A, "General Finishes," Section 3.04, "Concrete Finishes and Tolerances." After final troweling, cure using "Kurex DR VOX" or "Kurex DR 100" at an application rate of 400sf/gallon. Joint Filling: Fill all control joints as specified in paragraph B, Section 3.07, "Interior Slab on Ground Joint Filler."
2. Surface Preparation: Epoxy floor coating system is designed for application on concrete substrates. Newly placed concrete surfaces should be cured for a minimum of 28 days prior to coating. Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil, and other contaminants. Mechanically abrade the surface to achieve a surface profile equal to CSP 2-3 in accordance with ICRI Guideline 310.2. Properly clean profiled area. The pH of the surface should be checked according to ASTM D 4262. Following surface preparation, the cleaned surface should have a minimum surface-tensile strength of 200 psi when tested with an Elcometer or similar pull tester (ASTM D 4541).
- C. Products:
- a. Initial Coat: "Increte High Performance Epoxy" 1-gallon kit (Gray Color) by Euclid Chemical.
- b. Pigmented Coats: "Increte Granite Coat Chips" (Mica Color) by Euclid Chemical.
- c. Pigment Coat: "Increte High Performance Epoxy" 1-gallon kit (Clear Color) by Euclid Chemical.
- d. Final Wear Coat: "Increte Polysael Polysapartic" 2-gallon kit (Clear Color) by Euclid Chemical.
5. Initial Coat Mixing: Pre-mix Increte High Performance Epoxy (Gray) Part A and Part B, then combine 2 parts by volume of Part A with one part by volume of Part B, and then mix thoroughly using a low-speed drill motor and a "W" type mixer. Mix only the amount of material that can be applied during the pot life. Do not aerate the mix.
6. Initial Coat Application: Apply Increte High Performance Epoxy (Gray) at 120sf/gallon. Spread the mixed epoxy with a notched squeegee while wearing spiked shoes. Start from one end of the floor and work backwards and sideways trying to keep a wet-to-wet edge. Roll coating in one direction using a 3/8" nap, shed-resistant roller. Make sure the material is applied as quickly as possible without leaving puddles.
7. Pigmented Chip Application: Broadcast until refusal, Increte Granite Coat Chips (Mica) in a high arcing motion into the wet epoxy. Allow to cure. Once dry, vacuum or scrape off excess chips.
8. Groat Coat: "Increte High Performance Epoxy" (Clear) at 120sf/gallon. Allow to dry.
9. Wear Coat: Apply a final coat of Increte Polysael Polysapartic (Clear) at 120sf/gallon. Allow to dry.
10. Cove Base: In addition to the seamless integral floor, provide a 4" cove base from the floor to the "FRP" wall transition. Consist of a mixture of Increte High Performance Epoxy and finely graded, clean dry, trowelable aggregates, troweled to the previously installed vertical cement board surface, to a height of 4". Create a coved, seamless, integral transition at joint between wall and floor. Broadcast until refusal, Increte Granite Coat Chips (Mica) into the wet epoxy. Finish Cove Base detail with the Groat Coat and Wear Coat as specified herein. Once completed, the floor and cove base shall be seamless in function and appearance.
- a. Install cement wall board so that the bottom edge is flush with the floor as specified.
- b. Install cement wall board tape, similar to Goldblatt Professional Cement Board Tape, to all joints of cement board.
- c. Install Fiber Reinforced Panels (FRP) as required. Do not apply adhesive to any areas contacting the 4" cove base installation. Do not apply water to any of these surfaces prior to installation of the epoxy floor or cove system.
- d. Install 4" cove base directly to cement board. Cove base shall come in direct contact with the bottom edge of the Fiber Reinforced Panels so that the floor and cove base shall be seamless in function and appearance.
- C. Tolerances: ACI 117 "Specifications for Tolerances for Concrete Construction & Materials." General contractor is responsible for all costs associated with floor tolerance testing. A copy of the final floor tolerance report shall be provided by the general contractor to Owner within 24 hours of receiving the report from the testing laboratory.
1. All perimeter areas and edges of the interior floor shall exhibit the same final finish.
- a. Location Interior Slab on Ground Exterior Slab on Ground
- b. F<sub>r</sub> Tolerance 35 25
- c. F<sub>t</sub> Tolerance 20 17

3.05 CAST-IN-PLACE CONCRETE JOINTS

- A. General: Joints shall be cut as indicated on drawings, and as soon as the slab will support the weight of the saw and operator and when cutting action will not tear, abrade, or otherwise damage the concrete surface. Cuts must be made before concrete develops random contraction cracks. Employ sufficient number of saws and workers to complete cutting of saw joints within 2 hours after final finish of interior slab on ground. After saw cutting, immediately vacuum up and remove all residues completely.
1. Construction Joints:
- a. Construction joints shall be true to line with faces perpendicular to surface plane of concrete (refer to drawings), so as not to impair strength or appearance of concrete.
- b. Construction joints in slab on grade shall be butt joints with square plate dowels. Do not use metal keyways.
2. Control Joints: Form weakened-plane control joints, sectioning concrete into areas as indicated:
- a. All saw cutting shall be accomplished with a "Soft-Cut" saw, by Husqvarna Construction Products (600-288-5040), equipped with a patented color-coded, diamond blade and skid plate in saw condition. Concrete Subcontractor must have documented successful experience in the use of this method prior to this project. Using a 1/8" thick blade, cut the interior slab on ground a minimum of 1.25" deep for 4" thick slabs and 1.67" for 5" thick slabs. White chalk lines and concrete dust shall be removed completely and immediately after cutting operation. Random depth checks shall be performed by an independent testing company to confirm that the specified depth of cut is made. Any cuts found to be less than proper depth shall be re-cut to the proper depth and filled with specified joint filler at the general contractor's expense.
3. Isolation Joints: Install joint-filler strips at junctions with slabs-on-grade and vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.
- a. Extend joint fillers full width and depth of joint, terminating flush with finished concrete surface, unless otherwise indicated.

3.06 INTERIOR SLAB ON GROUND PROTECTION AND CURING

- A. Protection: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 305 for hot-weather protection and ACI 306 for cold-weather protection during placing and curing. For concrete placement during hot, dry, and windy conditions, General Contractor shall use the specified evaporation retarder as per manufacturer instructions to maintain a moist condition and to minimize plastic drying shrinkage cracking.
- B. Interior Slab on Ground Concrete Curing: The interior slab on ground shall be cured using the specified dissipating liquid membrane-forming curing compound. All applications shall be made by a trained applicator immediately following final finish. The concrete and air temperature shall be above 50°F. Surface shall be damp, but not wet and can no longer be marred by walking workers. Apply "Kurex DR VOX" or "Kurex DR 100" at an application rate of 400sf/gallon.
- C. Interior Slab on Ground Protection: Take the following measures to protect the interior slab on ground:
1. Wrap or drape all motorized and hydraulic equipment to prevent fluid leaks
2. Provide non-marking tires on rubber-tired vehicles or equip rubber tires with tire boots made of nylon fabric
3. Provide mats at all entrances to prevent mud stains
- D. Exterior Slab on Ground Concrete Curing: All exterior slab on ground shall be cured using the specified liquid membrane-forming curing compound. Application shall be made by a trained applicator immediately following final finish. Concrete and air temperature shall be above 50°F. Surface shall be clean, damp, but not wet and can no longer be marred by walking workers. Apply "Super Rez Seal" or "Super Diamond Clear VOX" at an application rate of 400sf/gallon.

3.07 INTERIOR SLAB ON GROUND JOINT FILLER

- A. General: Do not commence installation of semi-rigid polyurea joint filler, liquid densifier / sealer and polishing processes until the building is completely enclosed, permanent power and lighting is operating, and the building is thermally controlled. Installation of these materials shall commence approximately two weeks prior to "fixtured date."
- B. Joint Filler Installation: Comply with ACI 302 as applicable to materials, applications, and conditions.
1. Surface cleaning of joints: Clean joint immediately before installing joint filler. Remove foreign material that could interfere with adhesion of joint filler by brushing, grinding, blast cleaning, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint filler. Remove loose particles remaining from above cleaning operations by vacuuming or blowing out joints with oil-free compressed air. Also remove all balance and form-release agents from concrete surface. Clean nonporous surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues could interfere with adhesion of joint sealants. All surfaces to be filled shall be clean and dry.
2. Mixing: Joint filler is a two-part product requiring machine mixing and placing. Premix Part "B" separately before using. Follow pump manufacturer's equipment instructions.
3. Placement: For proper load transfer, joints must be filled full depth, but in no case should the joint filler be any less than 1" deep in the joint. No backer rod is allowed. Joints should be overfilled and shaved level with the surface, giving the floor joints a flat, smooth appearance.
4. Joint filler separation: The trained joint filling applicator shall include in their bid a cost per linear foot to make one return trip to refill joints if joint filler sidewall separation or spilling exceeds 1/16", or if surface profile is concave, chattered, or if voids occur. This shall take place one week prior to grand opening, or at Owner's request.
- C. Initial cleaning for liquid densifier and sealer application: thoroughly clean the interior slab on ground prior to the initial application of liquid densifier/sealer and polishing process. Completely remove the remnants of the specified dissipating or removable curing compound from the floor surface. The following floor stripper or removal solution shall be applied to the floor at the proper ratio to thoroughly strip, clean and remove all curing compound residue.
- a. "Eucos Clean & Strip" by Euclid chemical
- D. Polishing process and application of liquid densifier / sealer: prior to application, inspect interior slab on ground to ensure that slab is clean and free of dust, grease, oils, or other contaminants that might prohibit the proper application and penetration of the liquid densifier and sealer.
1. The following process is provided as a guide. Many factors, including, but not limited to interior slab on ground finish, hardness and flatness will determine the initial diamond tooling, including additional grinding and/or polishing operations required to meet the requirements specified herein. The trained applicator shall provide a test polish, including application of liquid densifier/sealer to a designated area of the interior slab on ground, using the same equipment, tools and methods as will be used to polish the interior slab on ground. Floor polishing and application of liquid densifier/sealer shall not commence until general contractor has accepted the polished interior slab on ground test slab.
2. Step one: using equipment with sufficient head pressure (≥ 150 psi), thoroughly clean, and then grind concrete floor with a combo set of 60 grit resin bond diamonds and 100 grit resin bond diamonds (not pads). Each pass must overlap 50% of the previous pass. Grind the concrete floor to allow for an even scratch pattern. Clean floor thoroughly after this pass.
3. Step two: apply Euclid diamond hard liquid densifier/sealer at 225 square feet per gallon.
4. Step three: using equipment with sufficient head pressure (≥ 150 psi) polish concrete floor with a combo set of 100 grit resin bond diamonds and 200 grit resin bond diamonds (not pads). Each pass must overlap 50% of the previous pass. Polish the concrete floor to allow for an even scratch pattern. Clean floor thoroughly after this pass.
5. Step four: using equipment with sufficient head pressure (≥ 150 psi) polish concrete floor with 400 grit resin bond diamonds (not pads). Each pass must overlap 50% of the previous pass. Polish the concrete floor to allow for an even scratch pattern. Clean floor thoroughly after this pass.
6. Step five: apply Euclid diamond hard liquid densifier/sealer at 700 square feet per gallon.
7. Step six: burnish/polish concrete floor with 800 grit diamond impregnated pads.
8. Step seven: burnish/polish concrete floor with 1500 grit diamond impregnated pads.
9. Polish results: perform polishing process to reach a specified overall gloss value (SGOV) of ≥35 as measured with a HORIBA Ip-320, and a specified minimum gloss reading (SMGV) of ≥30. The trained applicator shall take four gloss measurement readings at each location, and then averaged four readings at each location. A minimum of 25 readings shall be taken throughout the interior slab on ground. The overall measurement shall be reported to general contractor within 24 hours of the polishing process. Gloss shall be considered a quantitative value that expresses the degree of reflection when light hits the concrete floor surface. Gloss measurements will be taken independent of ambient lighting and will be taken within a sealed measurement window located beneath the test unit.

3.08 URETHANE EXPANSION JOINT SEALANT APPLICATION

- A. Urethane Joint Sealant Application:
1. Apply joint sealants in accordance with manufacturer's written instructions.
2. Back-up material:
- a. Install appropriate size backer rod, larger than the joint where necessary per manufacturer's recommendations and in a manner to provide concave sealant profile.
- b. Where joint depth does not permit installation of backer rod, install adhesive-backed polyethylene bond-breaker tape along the entire back of joint to prevent 3-sided adhesion of joint sealant.
3. Sealant: Verify that the temperature and moisture conditions are within manufacturer's acceptable limits. Using fresh sealant and equipment that is in proper working order, completely fill joint with sealant, filling from bottom up to avoid entrapping air.
4. Using clean, dry tool with rounded edge and of appropriate width for each joint, tool freshly installed sealant to provide preferred concave profile, to ensure intimate contact between sealant and substrate and to provide neat appearance. Where surface aggregate does not permit proper tooling, install sealant and backer rod so that face of joint is recessed behind exposed aggregate and sealant is bonded to firm, even surface. Use dry tooling method. Do not use tooling agents such as soapy water or tooling agents that have not been approved by sealant manufacturer.

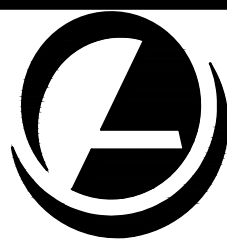
UNLESS OTHERWISE NOTED BY TSC, CONCRETE FLOOR SLAB SHALL BE CAST AS ONE CONTINUOUS POUR. CONTRACTOR SHALL PROVIDE TERMITITE PROTECTION. APPLY TERMITITIDE TO SUB-BASE BEFORE CONCRETE IS POURED. PROVIDE ONE GALLON OF DILUTED TERMITITIDE PER 10 SQUARE FEET OF SLAB AREA. APPLY AN ADDITIONAL 2-4 GALLONS PER 10 LINEAR FEET AT THE FOUNDATION PERIMETER.

NOTE: THIS SPEC IS WRITTEN AROUND ASTM STANDARDS. GENERAL CONTRACTOR AND DEVELOPER SHALL BE RESPONSIBLE FOR OVERALL QUALITY OF PRODUCTS SELECTED AND WORKMANSHIP OF SLAB.

ARCHITECT AND CONTRACTOR TO PAY SPECIAL ATTENTION TO ACHIEVE DESIGN THAT PREVENTS THE CONCRETE FROM HEAVING AT ALL DOORWAYS ESPECIALLY IN COLD WEATHER LOCATIONS.



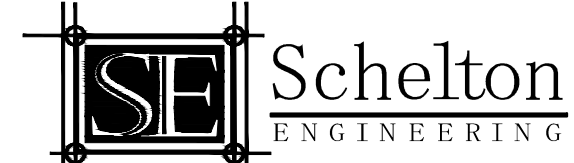




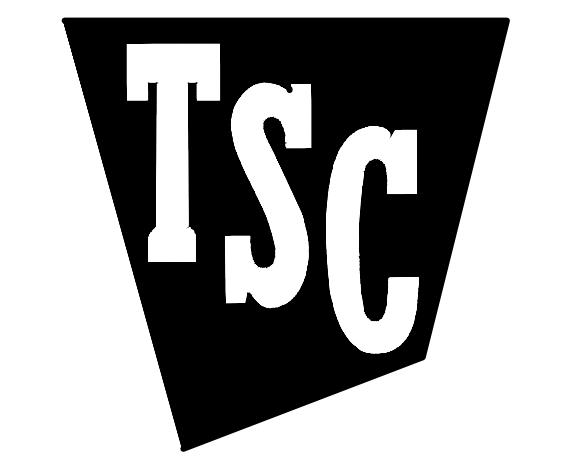
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TRACTOR SUPPLY COMPANY

HOUMA,  
LOUISIANA

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Job Number: 2485

Date: 01.20.2025

Revisions:

Revisions:

Revisions:

MECHANICAL FLOOR PLAN

Sheet Number: M1.0

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	NEW SUPPLY AIR DUCTWORK
	NEW RETURN AIR DUCTWORK
	NEW EXHAUST AIR DUCTWORK
	MANUAL VOLUME DAMPER
	CEILING DIFFUSER
	CEILING RETURN AIR GRILLE
	CEILING MOUNTED EXHAUST FAN
	SUPPLY CFM
A.F.F.	ABOVE FINISHED FLOOR
O.A.	OUTSIDE AIR
MCD	MECHANICAL CONDENSATE DRAIN
SD	DUCT MOUNTED SMOKE DETECTOR
EF-1	EQUIPMENT LABEL (SEE MECH. SCHEDULE FOR INFO.)
T	THERMOSTAT
→	AIR FLOW
△	UNDERCUT DOOR 3/4"

### CONSTRUCTION NOTES

- 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".
- FURNISH AND INSTALL 2'x2' ADJUSTABLE MODULATING SUPPLY AIR DEVICE, THERMA-FUSER BY ADUTHERM, 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.
- FURNISH AND INSTALL VAV DAMPER BY ZONEK, MODEL STMPD10, WITH SAM00 THERMOSTAT, TR-1 24V TRANSFORMER, AND TS-1 DUCT TEMPERATURE SENSOR. BALANCE SUPPLY AIRFLOW TO 290 CFM.
- ROUTE MCD LINE ON ROOF AT 1/8" PER FOOT TOWARD DRAIN. REFER TO DETAIL FOR PIPE SUPPORT INSTALLATION.
- MOUNT THERMOSTAT 48" A.F.F.
- MOUNT THERMOSTAT 90" A.F.F. ON POLE FACING AWAY FROM NEAREST DIFFUSER.
- CONTRACTOR SHALL VERIFY SUPPLY AND RETURN DUCT FROM UNIT FALLS WITHIN CORE AREA WALLS TO DECK.
- EXTEND 4" SINGLE WALL POLYPROPYLENE VENT SYSTEM MEETING U.L. 1738 STANDARDS, FOR 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" RETURN DUCT OPEN TO SPACE. CAP WITH WIRE MESH - PROVIDE MANUAL VOLUME DAMPER IN RETURN AIR DUCT AND BALANCE FOR 290 CFM.
- 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".
- MOUNT THERMOSTAT 60" A.F.F.

### INTERNATIONAL MC 403.3 COMPLIANCE SCHEDULE

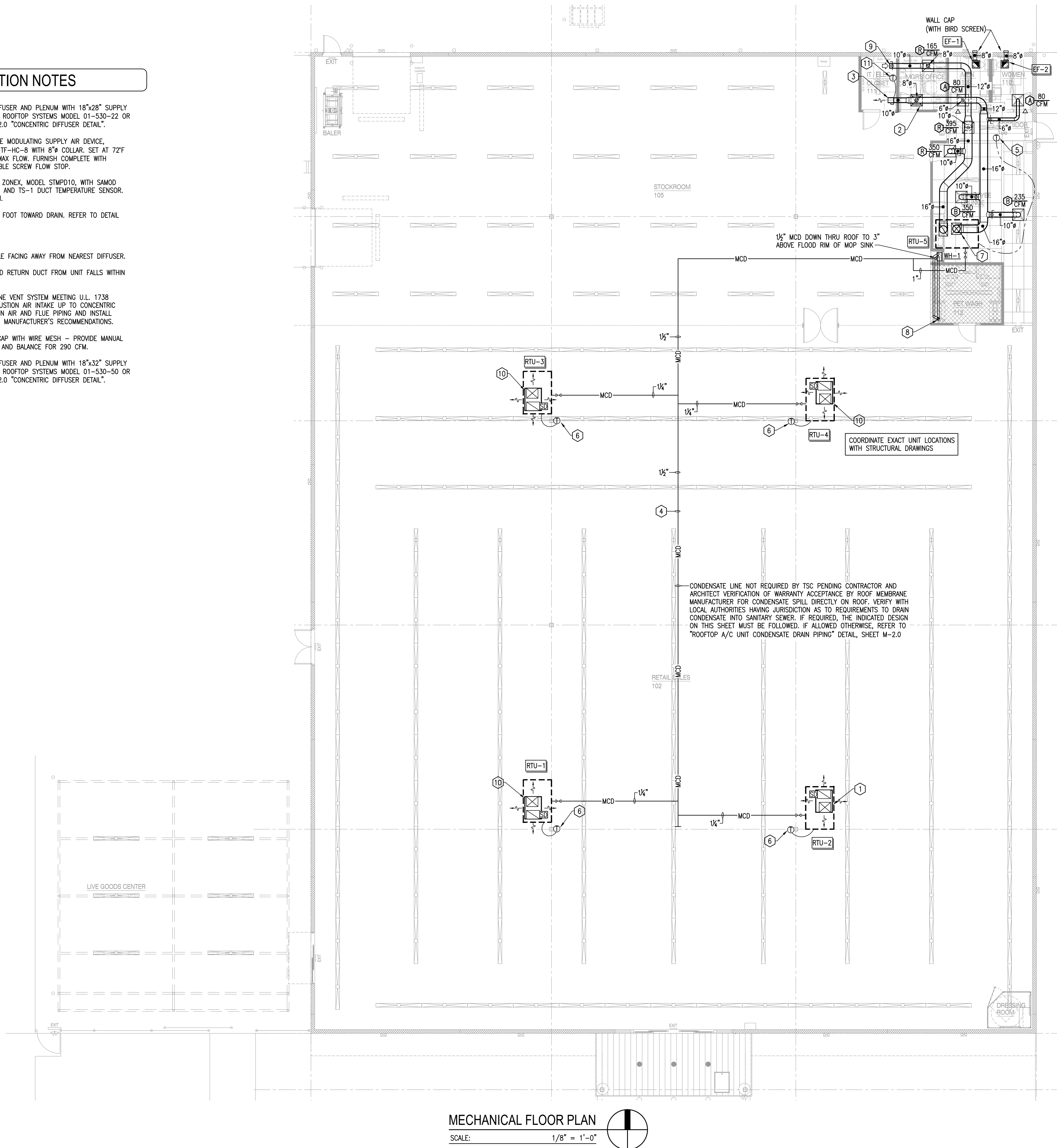
UNIT NUMBER	RTU-1, 2, 3, & 4		RTU-5				TOTAL
AREA SERVED	RETAIL SALES	STOCKROOM	EMPLOYEE LOUNGE	OFFICE	CORRIDOR	I.T. CLOSET	
AREA (SQ. FT.)	15,417	4,949	245	78	238	58	
NO. PEOPLE/1000 SQ. FT. (TABLE 403.3)	15	N/A	50	5	-	-	
PEOPLE QUANTITY	50***	N/A	10 *	1	-	-	
AIRFLOW PER PERSON (TABLE 403.3)	7.5	N/A	5	5	-	-	
CFM / SQ. FT.	.12	.12	.06	.06	.06	.06	
TOTAL O.A. REQUIRED (CFM)	2,225	NAT. VENTILATION**	65	10	15	5	2,320
WITH VENTILATION EFFICIENCY = .8	2,785	NAT. VENTILATION**	85	15	20	10	2,915
TOTAL O.A. PROVIDED (CFM)	2,785	NAT. VENTILATION**	85	15	20	10	2,915

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

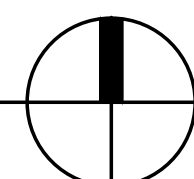
	PYLON/BUILDING SIGN PARKING LOT LIGHTS DUSK (BY PHOTOCELL)	BUILDING LIGHTS WALL PACKS DUSK TO DAWN PHOTOCELL (ALWAYS ON DURING DARK)	BUSINESS LIGHTS 7:30 AM	EMPLOYEE LIGHTS 7:30 AM	HEATING 68 DEGREES AT 8:00 AM	COOLING 74 DEGREES AT 8:00 AM	SUNDAY SAME TEMPS AT 10:00 AM
ON							
OFF	9:15 PM	DURING THE DAY	8:30 PM	8:30 PM	62 DEGREES AT 9:00 PM	80 DEGREES AT 9:00 PM	SAME TEMPS AT 6:00 PM
LIGHTING CONTROL ZONE	LZ-3	LZ-2	LZ-1B	LZ-1A			
NOTES: CONTROL ZONE	THE SYSTEM CAN BE OVERRIDDEN BY THE OVERRIDE SWITCH IN CASE THE STORE IS OPEN EARLIER OR LATER THAN NORMAL STORE HOURS.						
NOTES: CONTRACTOR RESPONSIBILITIES	1. LZ-X DENOTES ROUTING THRU A LIGHTING CONTRACTOR IN THE UNITIZED BOARD. 2. GC RESPONSIBLE FOR PROGRAMMING ALL NON EMS CONTROLLED THERMOSTATS AND LIGHTING CONTROLS. 3. TEMPERATURE SET POINTS SHALL BE COORDINATED WITH OWNER/EMS SYSTEM PROVIDER AT TIME OF INSTALLATION. MAINTAIN MIN. 5 DEGREE DEADBAND BETWEEN HEATING AND COOLING SET POINTS.						

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



### MECHANICAL FLOOR PLAN

SCALE: 1/8" = 1'-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 ENGINEER BEFORE PROCEEDING WITH ANY MODIFICATIONS. WORK INSTALLED USING UNAPPROVED SUBSTITUTIONS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL VISIT THE SITE AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING SCOPE OF WORK. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR OF ANY RESPONSIBILITY IN THE PERFORMANCE OF HIS WORK. ALL WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE BY CRAFTSMEN SKILLED IN THIS PARTICULAR WORK. CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN ALL PERMITS AND CERTIFICATES OF INSPECTION RELATIVE TO THIS WORK.

COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF THE FOLLOWING:

STATE BUILDING CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CONSERVATION CODE NFPA-90A, NFPA-101, NFPA-54.

ALL EQUIPMENT SHALL BE ARI CERTIFIED AND U.L. LISTED.

- SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM OF FIVE (5) YEAR (PARTS ONLY) WARRANTY.
- UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO ACCEPTABLE CONDITION. ALL EQUIPMENT, COMPONENTS AND DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR USE, AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.
- IF HVAC EQUIPMENT IS USED FOR TEMPORARY HEATING, ETC., THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR CLEANING FILTERS, COILS, ETC. FINAL PERMANENT CONNECTIONS OF SERVICES TO UNITS SHALL BE COMPLETE PRIOR TO ANY START-UP OF EQUIPMENT.
- WHERE PIPES, DUCTS, ETC., ARE TO PASS THROUGH WALLS, FLOORS, ETC. SLEEVES SHALL BE PROVIDED PRIOR TO WALL CONSTRUCTION. SLEEVES SHALL BE OF EQUAL OR GREATER GAUGE METAL THAN PIPES OR DUCTS PASSING THROUGH. WHERE SLEEVES PENETRATE EXTERIOR SURFACES, VOIDS SHALL BE SEALED WATER TIGHT. WHERE SLEEVES PASS THROUGH RATED PARTITIONS, SLEEVE PACKING SHALL BE OF U.L. LISTED FIRE SAFE TYPE.
- CONTRACTOR SHALL SUBMIT THREE SETS (3) OF INSTRUCTION BOOKS, INCLUDING INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS, PAMPHLETS OR BROCHURES AND ALL EQUIPMENT WARRANTIES OBTAINED FROM EACH MANUFACTURER OF EQUIPMENT.

### PART 2 PRODUCTS

#### 1. HEATING AND COOLING EQUIPMENT

- 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 405-419-8531 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, DIVERSTECH MODEL CC-1 OR APPROVED EQUAL. INTERLOCK WITH DEDICATED UNIT FOR UNIT SHUTDOWN.

#### 2. FANS

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

#### 3. ROOF CURBS

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

#### 4. 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.
- SLEEVES
- PROVIDE 18 GAGE SLEEVING AT MASONRY WALLS, ETC.
- SEAL ALL PENETRATIONS OF RATED PARTITIONS WITH U.L. LISTED FIRE BARRIER MATERIAL.
- CONTROLS
- LOW VOLTAGE VENDOR SHALL FURNISH, ROUTE, AND INSTALL CONTROL WIRING & THERMOSTATS FOR HVAC SYSTEMS INCLUDING PACKAGED GAS UNITS. CONTROL WIRING CONNECTIONS TO BE MADE BY MECHANICAL CONTRACTOR. GC SHALL FURNISH AND INSTALL TEMPORARY THERMOSTATS.
- INSTALL THERMOSTATS AT 90° A.F.F. UNLESS NOTED OTHERWISE. THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH FINAL LOCATIONS OF WALL-MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT. FINAL LOCATIONS MUST BE APPROVED BY THE ARCHITECT AND OWNER. THERMOSTATS SHALL NOT BE INSTALLED ON EXTERIOR WALLS IF INTERIOR WALLS ARE AVAILABLE WITHIN SPACE SERVED BY THERMOSTAT. SHOULD THE THERMOSTAT REQUIRE INSTALLATION ON AN EXTERIOR WALL AN INSULATED BACKING PLATE MUST BE PROVIDED TO PREVENT FALSE READINGS BY THE THERMOSTAT.
- CONDENSATE PIPING
- CONDENSATE DRAINS SHALL BE CONSTRUCTED WITH SCHEDULE 40 PVC, CPVC PIPING, OR TYPE L HARD DRAIN 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.
- CONDENSATE DRAINS SHALL BE SIZED AS SHOWN ON DRAWINGS. PROVIDE 2" THICK SLEEVE INSULATION TO PREVENT CONDENSATION. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR CONNECTION TO GRILLES AND REGISTERS IN MAXIMUM LENGTHS OF 6'-0" PER BRANCH RUN. FLEXIBLE DUCT SHALL BE CERTAINTED, WIREMOLD OR MANVILLE CORPORATION, FLEX METAL INSULATED WITH ACOUSTICAL VINYL VAPOR BARRIER, U.L. APPROVED WITH CONDUCTANCE .22 AT 75 DEGREES F. FLEXIBLE CONNECTIONS SHALL BE TESTED IN ACCORDANCE WITH UL181 AND LISTED AS CLASS 0 OR CLASS 1.
- 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.
- RADIUS 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.

#### 5. AIR DEVICES

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

- 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" EGGRATE TYPE WITH OFF-WHITE FINISH, ALUMINUM, SIZES AS SHOWN ON DRAWINGS.
- SEWAL RETURN AIR GRILLES SHALL BE HORIZONTAL FACE TYPE OF ALUMINUM CONSTRUCTION, OFF-WHITE FINISH OR AS SPECIFIED BY OWNER, SIZE AS SHOWN ON DRAWINGS.

#### 6. GAS FIRED EQUIPMENT

- ALL GAS FIRED EQUIPMENT SHALL BE AGA 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.

#### 7. 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, CENTROTERM 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.

#### 8. SLEEVES

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

#### 9. CONTROLS

- LOW VOLTAGE VENDOR SHALL FURNISH, ROUTE, AND INSTALL CONTROL WIRING & THERMOSTATS FOR HVAC SYSTEMS INCLUDING PACKAGED GAS UNITS. CONTROL WIRING CONNECTIONS TO BE MADE BY MECHANICAL CONTRACTOR. GC SHALL FURNISH AND INSTALL TEMPORARY THERMOSTATS.
- INSTALL THERMOSTATS AT 90° A.F.F. UNLESS NOTED OTHERWISE. THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH FINAL LOCATIONS OF WALL-MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT. FINAL LOCATIONS MUST BE APPROVED BY THE ARCHITECT AND OWNER. THERMOSTATS SHALL NOT BE INSTALLED ON EXTERIOR WALLS IF INTERIOR WALLS ARE AVAILABLE WITHIN SPACE SERVED BY THERMOSTAT. SHOULD THE THERMOSTAT REQUIRE INSTALLATION ON AN EXTERIOR WALL AN INSULATED BACKING PLATE MUST BE PROVIDED TO PREVENT FALSE READINGS BY THE THERMOSTAT.

#### 10. CONDENSATE PIPING

- CONDENSATE DRAINS SHALL BE CONSTRUCTED WITH SCHEDULE 40 PVC, CPVC PIPING, OR TYPE L HARD DRAIN 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

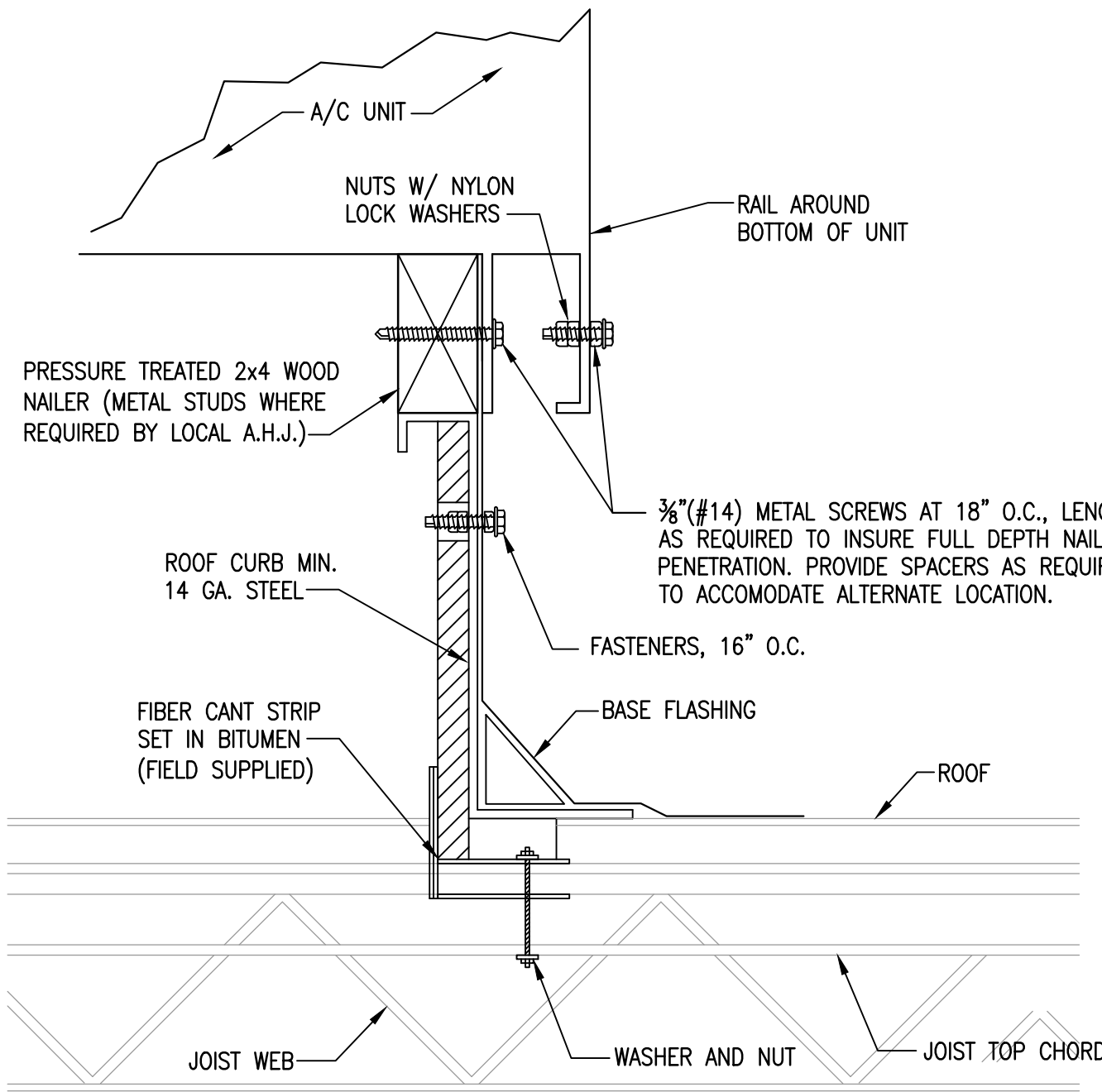
- FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURERS RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
- CONTRACTOR SHALL TEST AND BALANCE MECHANICAL SYSTEM. CONTRACTOR SHALL PROVIDE ALTERNATE PRICE FOR 3RD PARTY AABC CERTIFIED TEST & BALANCE TO ASSURE CONFORMANCE 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

ACCESSORIES:  
A: BACKDRAFT DAMPER  
B: WALL CAP  
C: VARIABLE SPEED CONTROLLER

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



NOTE: PROVIDE ADDITIONAL BRACING AND SUPPORT AS REQUIRED FOR ROOF CURB INSTALLATION TO WITHSTAND WIND LOAD PER LOCAL CODES.

### ROOFTOP EQUIPMENT ANCHOR DETAIL

SCALE: NONE

## PACKAGED GAS FIRED AC UNIT SCHEDULE

420.4 SQ FT. PER TON

IDENTIFICATION	RTU-1, 3, & 4	RTU-2	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
FAN SECTION:			
CFM SUPPLY	5,000	4,000	1,200
CFM O.A. MIN	735	580	130
EVAP. FAN H.P.	5	3	1-1/2
ESP-IN WG.	.8	.8	.35
HEATING SECTION:			
FUEL	NATURAL GAS	NATURAL 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

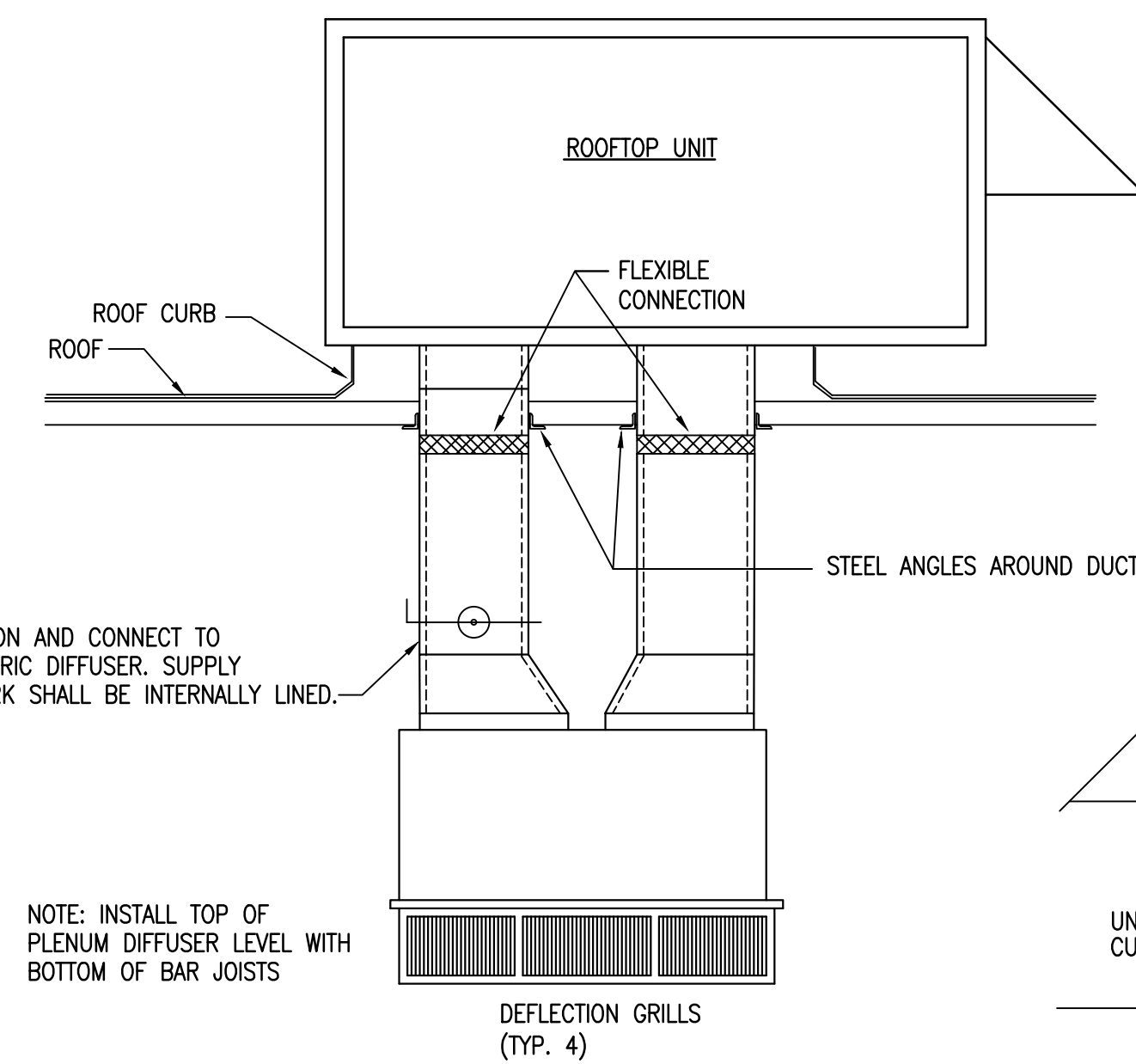
- TRACTOR SUPPLY COMPANY HAS NATIONAL ACCOUNTS WITH YORK/JOHNSON CONTROLS & LENNOX. FOR YORK PLEASE EMAIL JOE.RAHUB@YORK.COM OR CALL 1-405-419-8531 FOR YORK/JOHNSON CONTROLS QUOTATIONS AND TECHNICAL SUPPORT. FOR LENNOX PLEASE EMAIL STEVEN.PETER@LENNOX.COM OR CALL 1-800-367-6285 FOR LENNOX QUOTATIONS 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.**
- COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL, 95°F DB ENTERING CONDENSER.
- HEATING CAPACITY BASED ON NATURAL GAS AT 1000 BTU PER CUBIC FOOT AND 0.5 SPECIFIC GRAVITY.
- PROVIDE FACTORY FURNISHED 14" HIGH INSULATED ROOF CURB.
- PROVIDE FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROWING SWITCH.
- PROVIDE 1 YEAR LABOR AND 3 YEAR PARTS WARRANTY.
- PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS.
- PROVIDE 10 YEAR HEAT EXCHANGER WARRANTY.
- PROVIDE FACTORY INSTALLED SMOKE DETECTORS ON THE RETURN DUCT DISCHARGES.
- PROVIDE FACTORY INSTALLED DIFFERENTIAL ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF. O.A. DAMPER SHALL CLOSE DURING UNOCCUPIED HOURS.
- MECHANICAL CONTRACTOR SHALL PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED PRIOR TO STORE OPENING.
- UNIT SHALL USE R-32 OR R-434B REFRIGERANT (NO EXCEPTIONS).
- 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.**
- STENCIL TAG NUMBER ON SIDE OF UNITS (FACING ROOF HATCH) WITH 3" HIGH LETTERS AND BLACK EXTERIOR PAINT.
- NON-POWERED CONVENIENCE OUTLET.
- PROVIDE COIL (HALL) GUARDS.
- 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.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND GANG BOXES FOR THERMOSTATS. SEE DRAWINGS ES.1 FOR DETAILS.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND GANG BOXES AS SHOWN ON ES.0. AS NECESSARY FOR FINAL CONNECTIONS TO FUTURE EMS. COORDINATE FINAL LOCATION OF EMX PANEL WITH EMS VENDOR. SEE DRAWING ES.1 FOR DETAILS.
- 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.
- 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.
- 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 E3.1 FOR THERMOSTAT MOUNTING INSTRUCTIONS.  
- O.A. DAMPER SHALL CLOSE DURING UNOCCUPIED HOURS.

## AIR DISTRIBUTION SCHEDULE

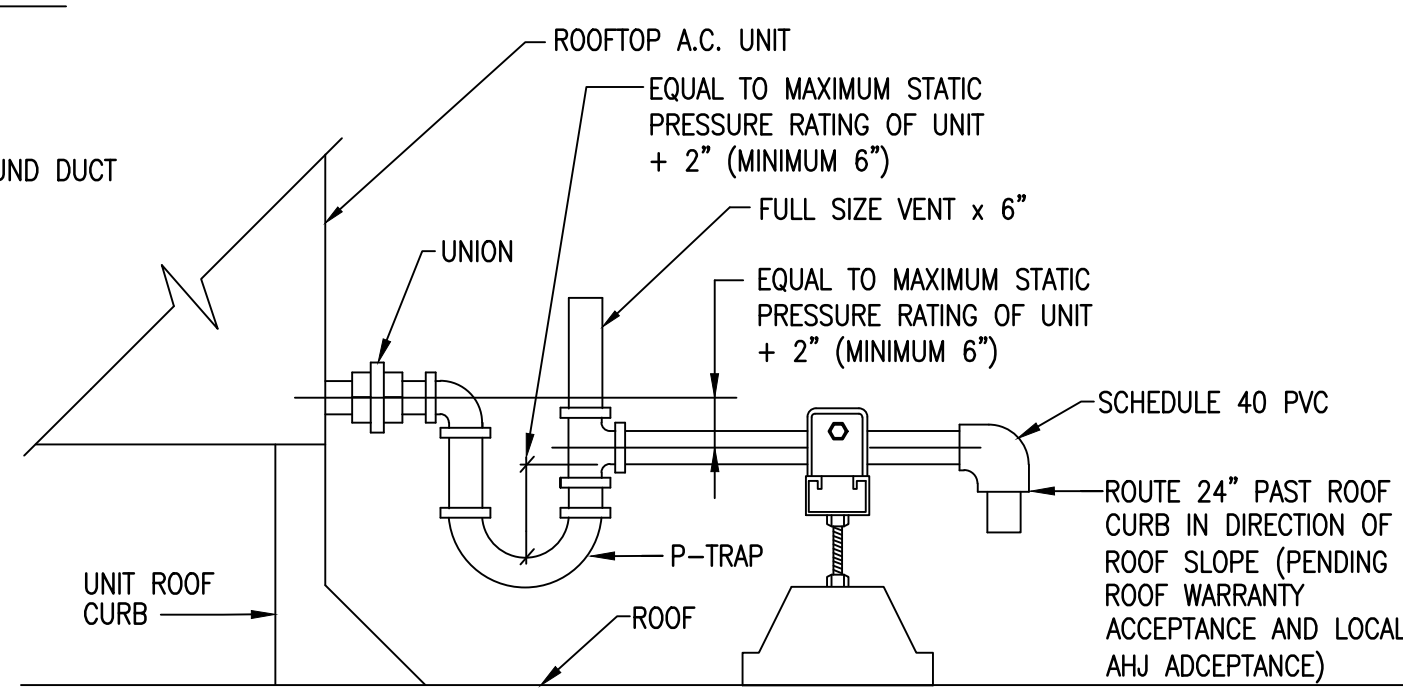
SYMBOL	MFGR. & MODEL #	DEVICE	FACE	DEVICE SIZE	VOLUME CONTROL	COLLAR SIZE	REMARKS
(A)	TITUS MOD. TMSA-AA	SUPP. DIFF.	LOUVERED	24" x 24"	M.V.D.	6"φ	SEE NOTE 1-4
(B)	TITUS MOD. TMSA-AA	SUPP. DIFF.	LOUVERED	24" x 24"	M.V.D.	10"φ	SEE NOTE 1-4
(C)	TITUS MOD. 50 F	RET. GRILLE	EGGRATE	24" x 24"			SEE NOTE 5

- NOTES:
- ALL AIR DEVICES TO HAVE COLOR PER ARCHITECT
  - PROVIDE ROUND NECK COLLARS FOR CEILING DIFFUSERS UNLESS NOTED OTHERWISE.
  - PROVIDE LAY-IN TYPE BORDER FOR CEILING WITH ACOUSTICAL TILE AND SURFACE MID. TYPE BORDER FOR GYPBOARD CEILINGS (REFER ARCHITECTURAL DWG'S)
  - ALL SQUARE CEILING DIFFUSERS ARE TO BE FULL LOUVERED FACE (NO BLANK PANEL)
  - PROVIDE RETURN AIR GRILLES WITH NECK SIZE EQUIVALENT TO RUNOUT SHOWN ON DRAWING.



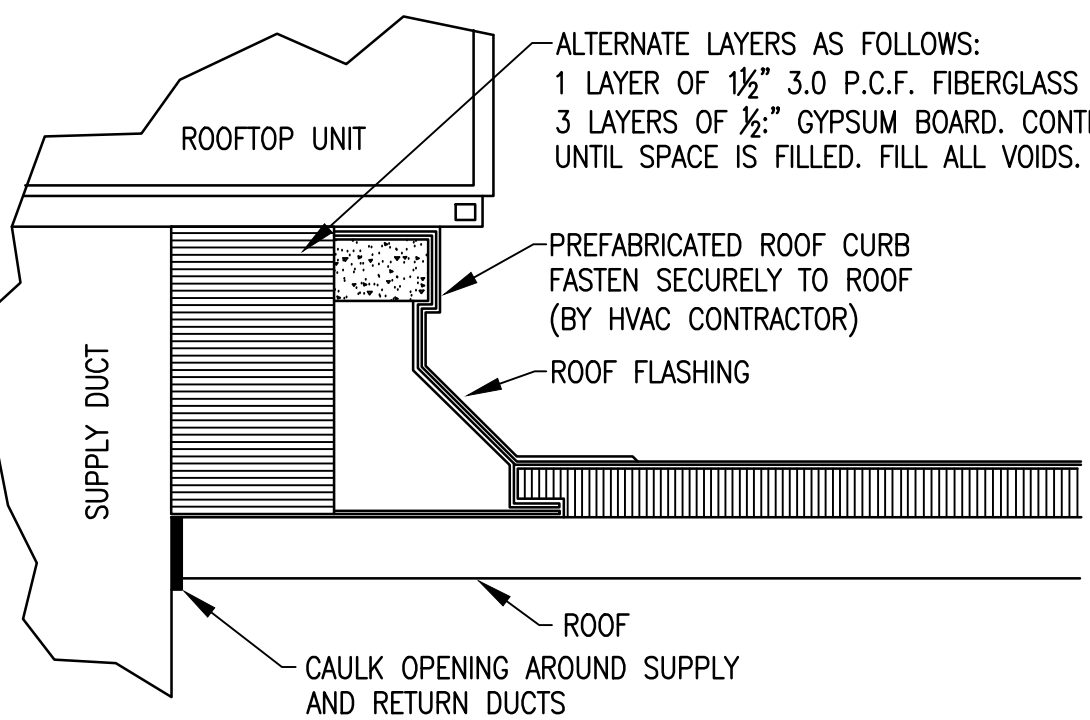
### CONCENTRIC DIFFUSER DETAIL

SCALE: NONE



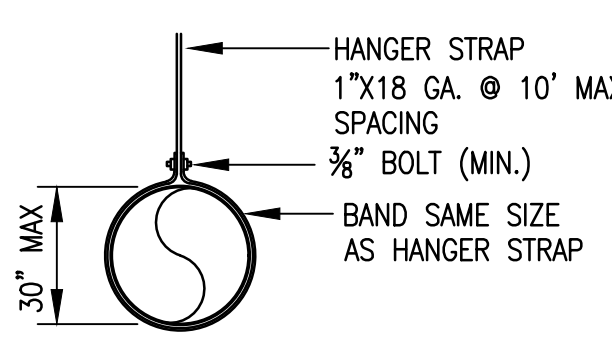
### ROOFTOP A/C UNIT CONDENSATE DRAIN PIPING

SCALE: NONE



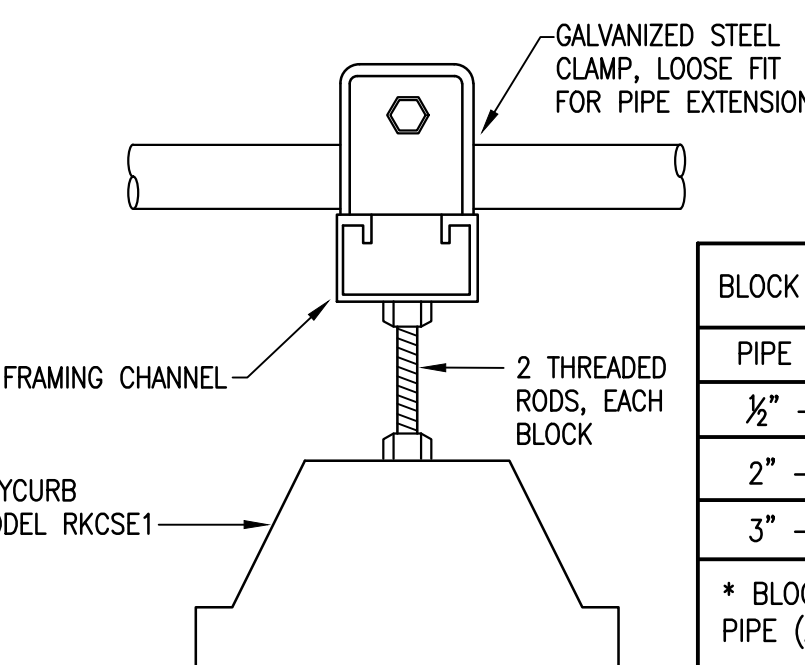
### ROOFTOP UNIT CURB DETAIL

SCALE: NONE



### ROUND DUCT SUPPORT DETAIL

SCALE: NONE



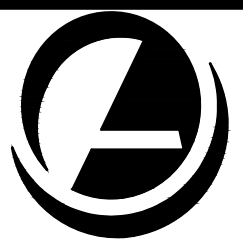
### PIPE SUPPORT DETAIL

SCALE: NONE

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

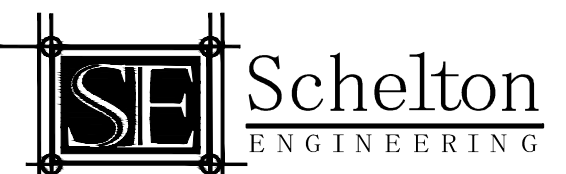
NOTE:  
NO WOOD ALLOWED FOR PIPE SUPPORTS.



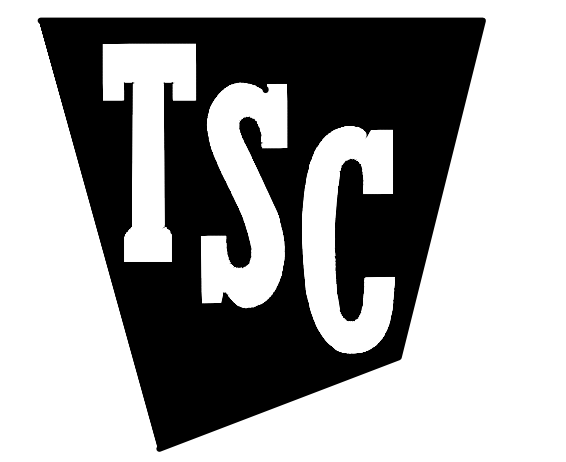
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Date: 01.20.2025

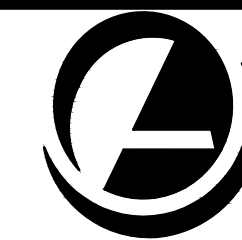
Revisions:

Revisions:

Revisions:  
MECHANICAL SCHEDULES, DETAILS, AND SPECIFICATIONS

Sheet Number: M2.0

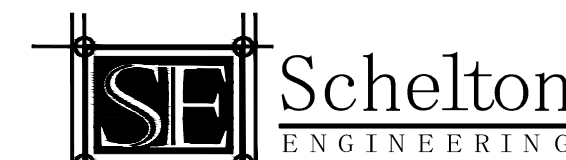




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Revisions:

Revisions:

Revisions:

PLUMBING FLOOR PLAN

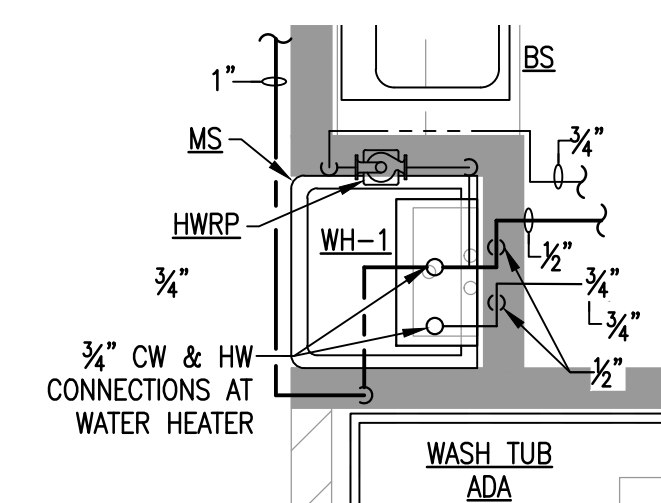
Sheet Number: P1.0

## PLUMBING FIXTURE LEGEND

SYMBOL	DESCRIPTION
—	COLD WATER ABOVE SLAB
—	HOT WATER ABOVE SLAB
—	COLD WATER BELOW SLAB OR GRADE
—	WASTE LINE BELOW SLAB OR GRADE
—	VENT LINE ABOVE OR BELOW SLAB
—	GAS LINE ABOVE SLAB OR GRADE
—	EXTERIOR CLEANOUT UP FROM BELOW SLAB OR GRADE
—	CLEANOUT UP FROM BELOW FLOOR OR SLAB
—	PIPE TURNED DOWN
—	PIPE TURNED UP
—	BALL VALVE
—	HOSE BIBB
—	NEW FIXTURES
WC-1, ETC.	FIXTURE IDENTIFICATIONS
CW	COLD WATER
HW	HOT WATER
VTR	VENT THRU ROOF
ECO	EXTERIOR CLEANOUT
ICO	INTERIOR CLEANOUT
WCO	WALL CLEANOUT
A.F.F.	ABOVE FINISHED FLOOR
—	PRESSURE REGULATING VALVE

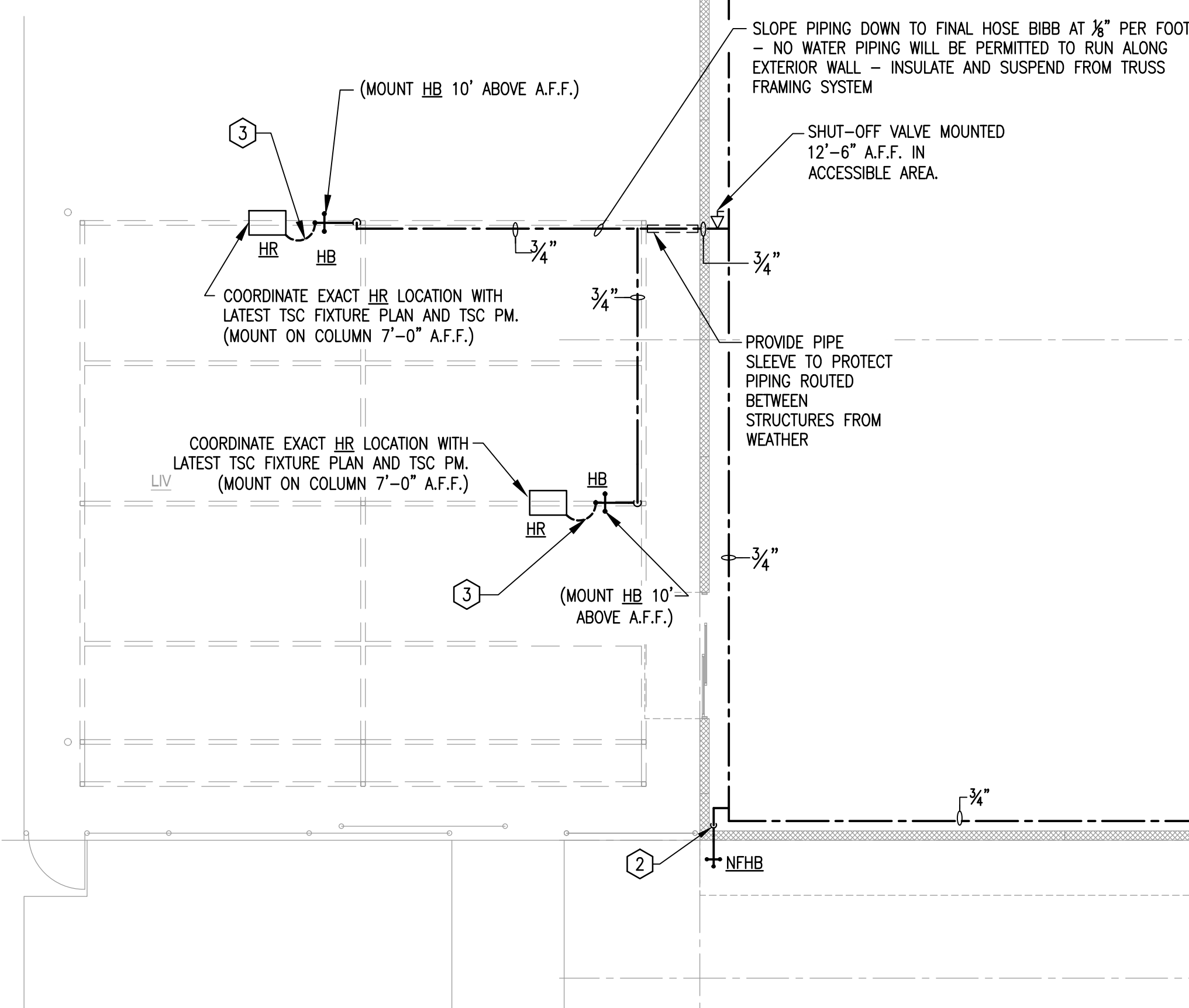
## CONSTRUCTION NOTES

- EXPOSED PIPING SHALL BE ROUTED TIGHT TO CORNER. TURN DOWN WITHIN 3" FURR OUT BETWEEN DRESSING ROOM AND EXTERIOR WALL. REFER TO DETAILS. PIPING SHALL NOT BE ROUTED DOWN WITHIN DRESSING ROOM.
- TURN 3/4" CW DOWN WITHIN 18" OF BUILDING CORNER.
- 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.



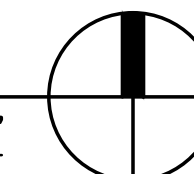
## INSTANTANEOUS WATER HEATER ABOVE MOP SINK ENLARGED PLAN

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



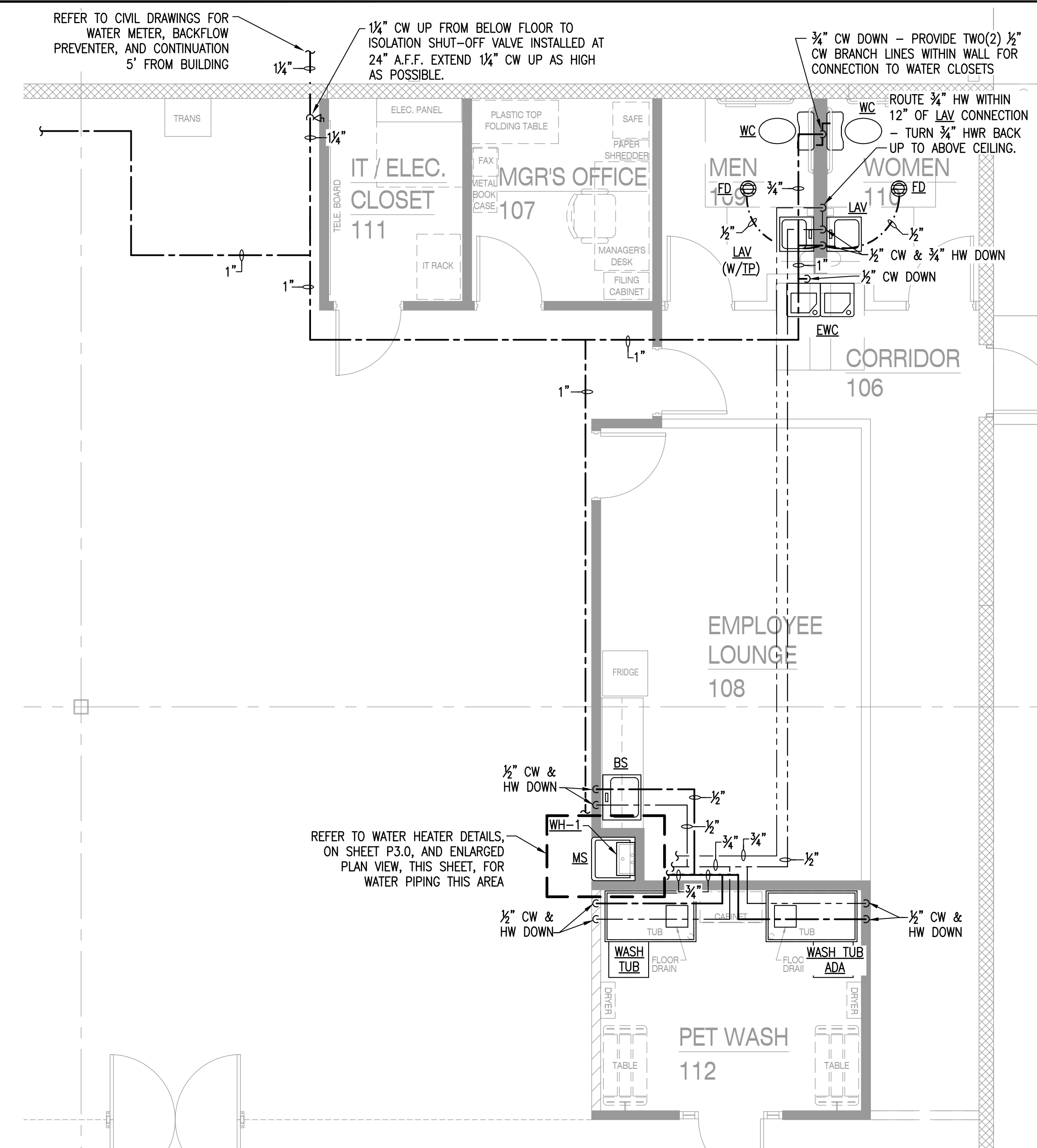
## PLUMBING FLOOR PLAN

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



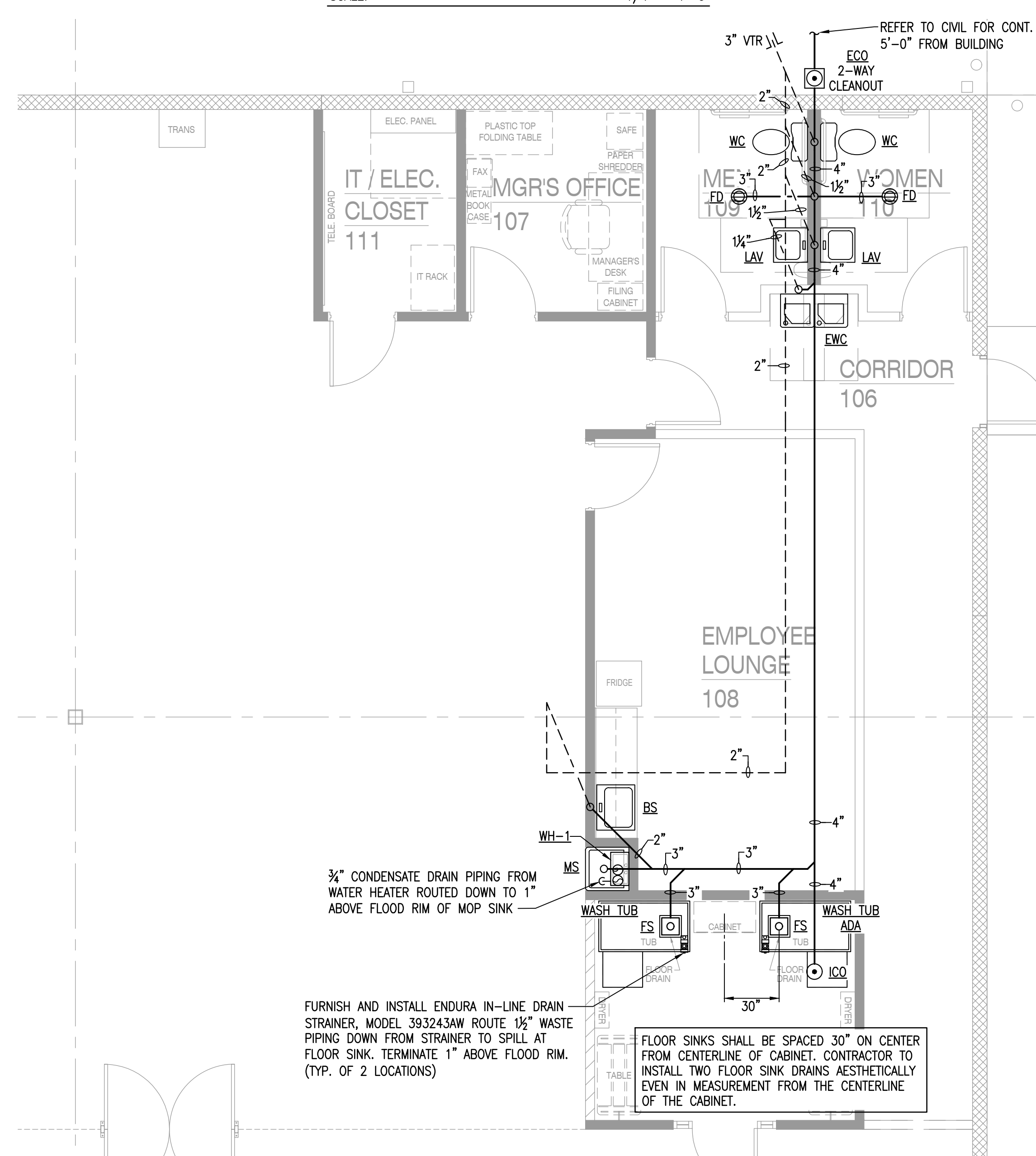
## ENLARGED PLUMBING PLAN: WATER

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

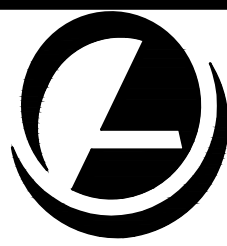


## ENLARGED PLUMBING PLAN: WASTE/VENT

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



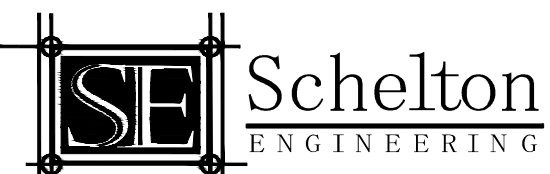




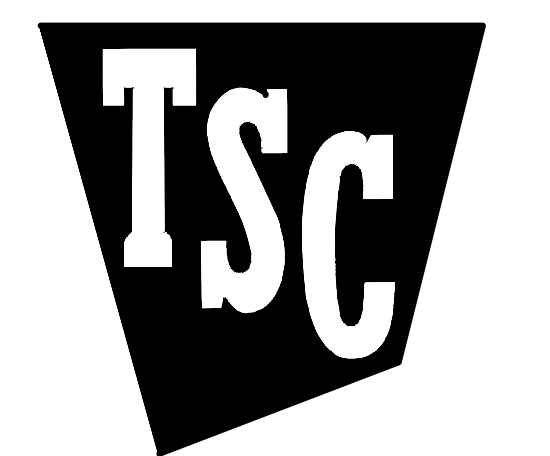
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## PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	UTILITIES			
		CW	HW	DR	VENT
WC	WATER CLOSET (FLOOR MOUNTED ADA, PRESSURE ASSISTED FLUSH TANK, MOTION ACTIVATED): KOHLER HIGHLINE K-3519, 12" ROUGH-IN, 1.0 GPF, WITH SLOAN FLUSHMATE PRESSURE ASSIST, LOW CONSUMPTION, VITREOUS CHINA, 17-1/8" HIGH, ELONGATED BOWL FLUSH TANK WATER CLOSET WITH LEFT HAND TRIP LEVER. PROVIDE BEMIS 1055 SSC ELONGATED OPEN FRONT TOILET SEAT, K-5420 BOLT CAPS. FOR RIGHT HAND TRIP LEVER CONFIGURATION. PROVIDE WITH ALTERNATE TANK CONFIGURATION MODEL K-3519-RH. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CORRECT TANK SELECTION WITH LATEST ARCHITECTURAL DRAWINGS TO ACCOMMODATE ADA ACCESSIBILITY PRIOR TO ORDERING. RETROFIT WITH INTELLI-FLUSH K-100101 WALL SENSOR. POWERED BY FOUR(4) AA BATTERIES. CHROME FINISH. INTELLI-FLUSH SYSTEM MUST BE ORDERED SEPARATELY FROM FLUSHMATE. CONTACT LORI FELTMATE AT FLUSHMATE FOR ORDERING INFORMATION. PH:(248)446-8159 EMAIL: Lori.Feltmate@Flushmate.com	½"	X	4"	2"
LAV	LAVATORY (ACCESSIBLE, WALL HUNG, MOTION ACTIVATED): KOHLER KINGSTON WALL-MOUNT K-2005, VITREOUS CHINA LAVATORY WITH A ZURN AQUASENSE BATTERY POWERED Z6915-XL FAUCET, POLISHED CHROME FINISH, KOHLER K-23726 DRAIN, KOHLER K-8998 P-TRAP AND KOHLER K-23725 CAST IRON CLEANER. MOUNT FIXTURE WITH FLOOD RIM ¾" AFF. FURNISH AND INSTALL WITH ZURN MODEL ZW3870XL THERMAL MIXING VALVE FOR MAX. 110°F HOT WATER.	½"	½"	¼"	¼"
BS	BREAKROOM SINK: (SINGLE BOWL, S.S., GOOSENECK): PROVIDED BY TRACTOR SUPPLY COMPANY & INSTALLED BY CONTRACTOR.	½"	½"	½"	¼"
EW	ELECTRIC WATER COOLER (ACCESSIBLE, MOTION SENSOR, DUAL-HEIGHT): MURDOCK MODEL A172108F-UG-B512-BCD WITH INFRARED SENSOR CONTROL AND WALL MOUNTING BRACKET. 8 GPH, 115/1/60. MOUNT HIGH UNIT AT 42" MAX. FROM FLOOR TO SPOUT OUTLET AND LOW UNIT AT 36" MAXIMUM FROM FLOOR TO SPOUT OUTLET. PROVIDE MCQUIRE 8912 P-TRAP AND MCQUIRE 165 SUPPLY WITH STOP COORDINATE WITH ELECTRICAL CONTRACTOR TO LOCATE RECEPTACLE BEHIND WATER COOLER CABINET. PROVIDE WITH BOTTLE FILLER. CONTACT BERRY JONES FOR ORDERING INFORMATION. PH: 800-459-7099 EMAIL: berry.jones@bjcinc.com.	½"	X	¼"	¼"
MS	MOP SINK : MUSTEE MODEL 63W 24"X24" FIBERGLASS MOP SERVICE BASIN. COMPLETE WITH MODEL 63.401 EXTRUDED BUMPER GUARD, CHROME MODEL 897-ROF CHROME PLATED SPOUT WITH VACUUM BREAKER, ¾" HOSE THREAD OUTLET, PAIL HOOK, WALL SUPPORT, INTEGRAL STOPS, MODEL 369 2½" METAL LEVER HANDLES AND 36" LENGTH OF THREADED HOSE. FURNISH AND INSTALL T&S MODEL 8-0977 THREADED CONTINUOUS PRESSURE VACUUM BREAKER AND DEMO MODEL 68-6 PRESSURE INDICATING TEE ON FAUCET OUTLET FOR HOSE CONNECTION TO BETCO DISPENSER. VACUUM BREAKER TO BE INSTALLED UPSTREAM OF PRESSURE INDICATING TEE.	½"	½"	3"	½"
WH-1	WATER HEATER (GAS INSTANTANEOUS, 96% EFFICIENCY, 120V/1Ø, 4 AMPS): A.O. SMITH MODEL 540H OR EQUAL, INTERIOR WALL MOUNTED, GAS, INSTANTANEOUS WATER HEATER, RATED AT 13,000 TO 199,000 BTUH, WITH CAPACITY OF 0.26-9.8 GAL./MIN. WATER HEATER SHALL CONFORM TO IECC 701, 504, AND ASHRAE 90.1. SET TO 120°F OUTLET TEMP. PROVIDE W/ ISOLATION VALVE. CONDENSATE NEUTRALIZER PART #100112163, AND INNOVULVE CONCENTRIC ROOF TERMINATION BY CENTROTERM OR APPROVED EQUAL. SHALL MEET UL-1738 STANDARDS.	¾"	¾"	X	X
FD	FLOOR DRAIN (3" DIA. OUTLET): ROUND TOP, J.R. SMITH MODEL 2005Y-A-P050-PB WITH CAST IRON BODY AND FLASHING COLLAR. TRAP PRIMER CONNECTION AND POLISHED BRONZE STRAINER. INSTALL WITH TOP FLUSH WITH FINISHED FLOOR.	X	X	3"	½"
TP	TRAP PRIMER: JOSAM FIG. NO. 88250, AUTOMATIC TRAP PRIMER, MOUNTED INSIDE WALL CAVITY UNDER LAVATORY. PROVIDE 8" X 8" ACCESS PANEL TO CLEAR LAVATORY ROUGH-IN AND PAINTED TO MATCH WALL. RUN 1/2" COPPER LINE FROM TRAP PRIMER TO ADJACENT FLOOR DRAIN AS SHOWN ON THE CONTRACT DRAWINGS. IN-LINE FLOOR DRAIN TRAP SEAL MAY BE USED IN LIEU OF TRAP PRIMERS PENDING LOCAL CODE APPROVAL. TRAP SEALS SHALL MEET REQUIREMENTS OF ASSE 1072 AND SHALL BE MADE OF CHEMICALLY RESISTANT ELASTOMER.	½"	X	X	X
WHA	WATER HAMMER ARRESTER: JOSAM FIG. NO. 75001 THROUGH 75006, SIZE AS RECOMMENDED BY MANUFACTURER.	X	X	X	X
HB	HOSE BIBB (METAL WHEEL HANDLE): WOODFORD MODEL 24, ANTI SIPHON, NIDEL MODEL 34HF VACUUM BREAKER. PROVIDE WITH METAL WHEEL HANDLE.	¾"	X	X	X
NFHB	HOSE BIBB (NON-FREEZE, KEYED HANDLE): WOODFORD MODEL 67, ¾", AUTOMATIC DRAINING BRASS FINISH, NIDEL MODEL 34HA VACUUM BREAKER. PROVIDE LOOSE TEE KEY FOR EACH HYDRANT.	¾"	X	X	X
FS	FLOOR SINK (14"X14"): ZURN MODEL FS12-6-PV3 14"X14" PVC FLOOR SINK WITH 3" PVC HUB CONNECTION. FURNISH WITH SEDIMENT BUCKET JP2370-Y3, HALF-GRATE JP2370-H, AND P-TRAP. FLOOR SINKS SHALL BE INSTALLED 30" ON CENTER FROM CENTERLINE OF MOP SINK.	X	X	3"	½"
WASH TUB & WASH TUB ADA	PET WASH TUB: TUB AND ANTI-SIPHON TYPE FAUCET TO BE PROVIDED BY TSC AND INSTALLED BY CONTRACTOR. CONTRACTOR TO FURNISH AND INSTALL WITH ENDURA IN-LINE DRAIN STRAINER, MODEL 393243AW, BELOW TUB IN PLACE OF P-TRAP. STRAINER CLEANOUT SHALL BE INSTALLED IN EASILY ACCESSIBLE LOCATION. TSC TO FURNISH AND CONTRACTOR TO INSTALL SMARTWAY HAIR INTERCEPTOR IN PLACE OF A STRAINER BASKET IN BASIN OF EACH WASH TUB. COORDINATE LEFT HAND / RIGHT HAND CONFIGURATION AS SHOWN ON DRAWINGS WITH TSC. FURNISH COMPLETE WITH TEMPERATURE LIMITING MIXING VALVE.	½"	½"	½"	½"
HWRP	HOT WATER RECIRCULATION PUMP (FOR USE AT WATER HEATER): BELL & GOSSETT MODEL PL-308 WITH ¾" CONNECTIONS, RATED @ 1/12 HP, 120-1-60, .5 GPM AT .75 TDH. PROVIDE MAIN CUTOFF SWITCH (MANUAL) FOR PUMP TO CUT OFF POWER AS REQUIRED UNDER ASHRAE STANDARD 9075, PARAGRAPH 7.6. INSTALL & SUPPORT PUMP PER SCHEMATIC ON CONTRACT DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS.	¾"	X	X	X
HR	HOSE REEL: REEL CRAFT MODEL GCD83050 OLP. MOUNT FROM STRUCTURE. COORDINATE EXACT LOCATION WITH LATEST TSC FIXTURE PLAN AND TSC PM.	¾"	X	X	X

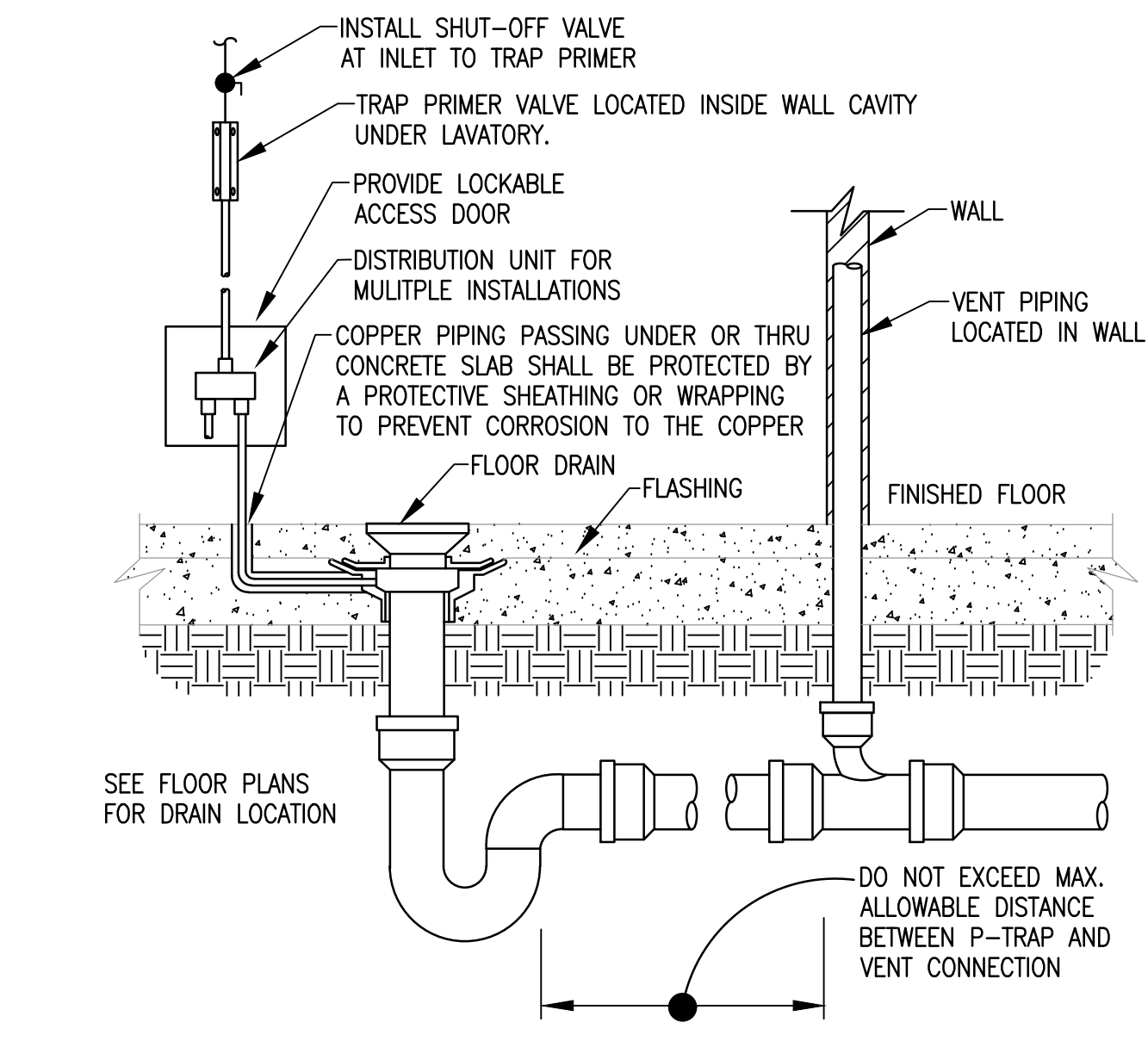
## WASTE & WATER FIXTURE LOAD CALCULATIONS

FIXTURE TAG	FIXTURE/EQUIPMENT	QUANTITY	WATER			WASTE	
			CW F.U. PER FIXTURE	HW F.U. PER FIXTURE	TOTAL F.U. PER FIXTURE	WASTE F.U. PER FIXTURE	TOTAL F.U.
WC	WATER CLOSET	2	5.0	-	5.0	4.0	8.0
LAV	LAVATORY	2	1.5	1.5	2.0	4.0	2.0
BS	BREAK ROOM SINK	1	1.0	1.0	1.4	2.0	2.0
EW	ELECT. WATER COOLER	1	0.25	-	0.25	-	-
MS	MOP SINK	1	2.25	2.25	3.0	2.0	2.0
FD	FLOOR DRAIN	2	-	-	-	2.0	4.0
WASH TUB	PET WASHING TUB	2	2.25	2.25	3.0	6.0	2.0
FS	FLOOR SINK	2	-	-	-	-	4.0
1st HB/NFHB	HOSE BIBB/ NON-FREEZE HOSE BIBB	1	5.0	-	5.0	-	-
HB/NFHB	HOSE BIBB/ NON-FREEZE HOSE BIBB	4	1.0	-	1.0	4.0	-
TOTALS					33.65		26.0
MAXIMUM WATER DEMAND AT 33.65 F.U. = 24.5 GPM = 1 1/4" MIN. WATER MAIN SUPPLY							
MAXIMUM WASTE DEMAND AT 26.0 F.U. = 4" SANITARY SEWER WASTE							
FIXTURE UNITS BASED ON 2021 INTERNATIONAL PLUMBING CODE							

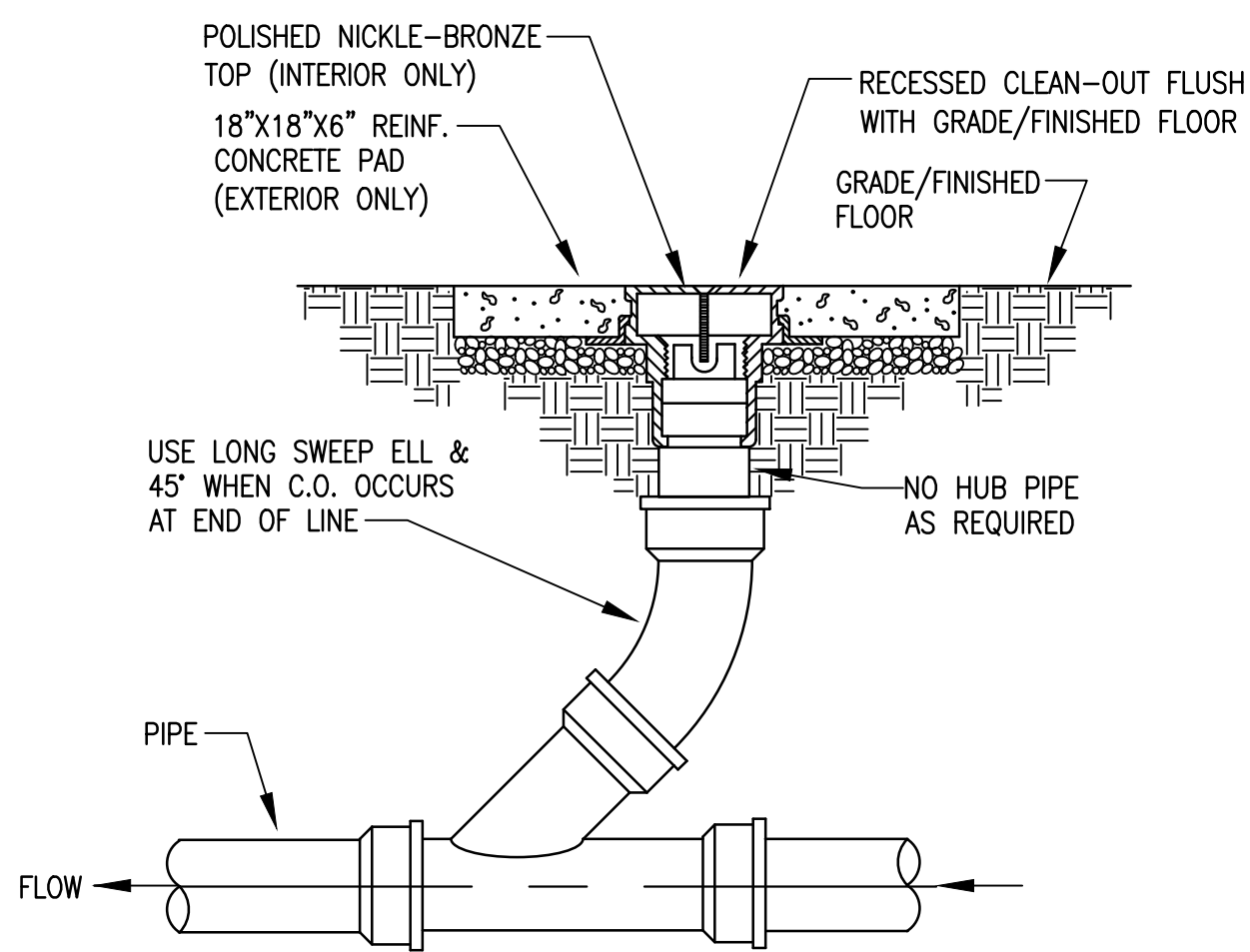
## GAS CONNECTION SCHEDULE

EQUIPMENT	LOAD
RTU-1	180,000 BTUH
RTU-2	180,000 BTUH
RTU-3	180,000 BTUH
RTU-4	180,000 BTUH
RTU-5	80,000 BTUH
WH-1	199,000 BTUH
TOTAL NEW CONNECTED LOAD:	999,000 BTUH
ALL NATURAL GAS PIPING IS SIZED FOR SCHEDULE 40 METALLIC PIPE.	
GAS LINE SIZED AT 2.0 PSI INLET PRESSURE WITH 1.0 PSI PRESSURE LOSS FOR 250'-0" FURNISH AND INSTALL FRN AT EQUIPMENT CONNECTION AS REQUIRED. CONTRACTOR SHALL VERIFY GAS AVAILABILITY @ 2 PSI WITH LOCAL PROVIDER PRIOR TO CONSTRUCTION.	
IF 2 PSI INLET PRESSURE IS UNAVAILABLE REFER TO PIPE SIZES INDICATED IN PARENTHESIS ON DRAWING SHEET P1.0.	

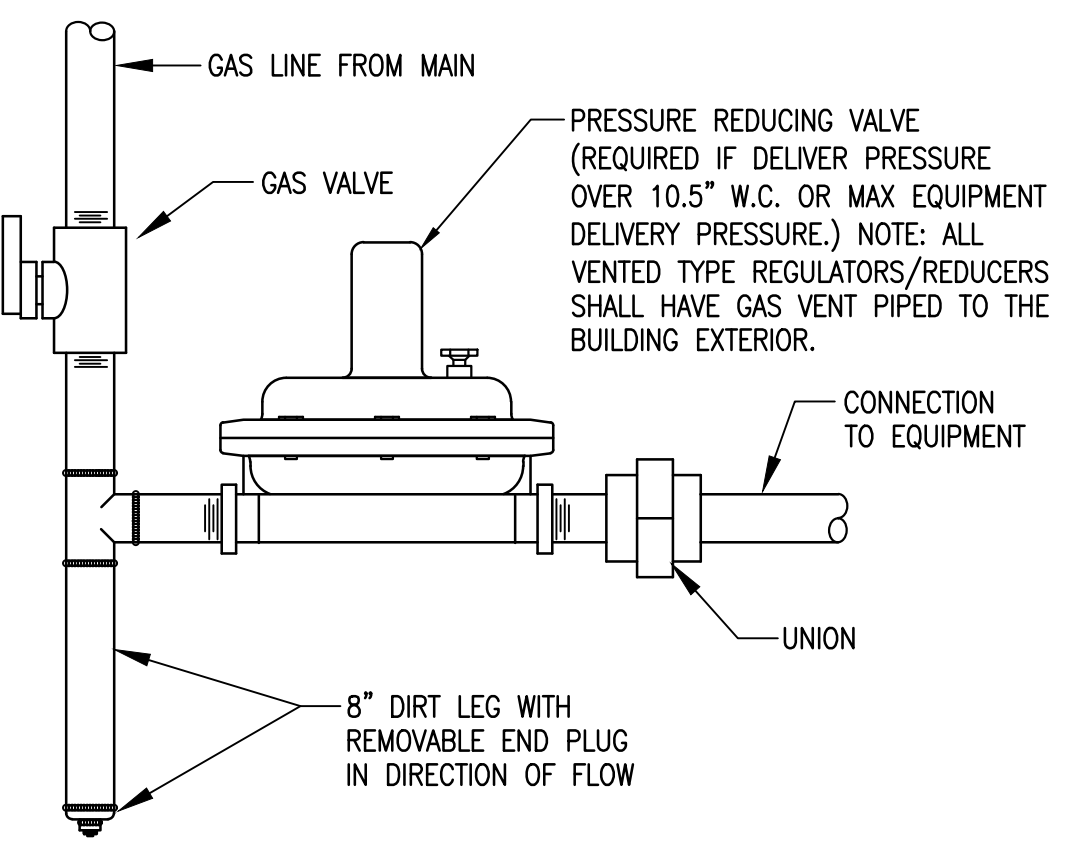
## FLOOR DRAIN DETAIL



## CLEAN-OUT DETAIL



## TYPICAL GAS CONNECTION DETAIL

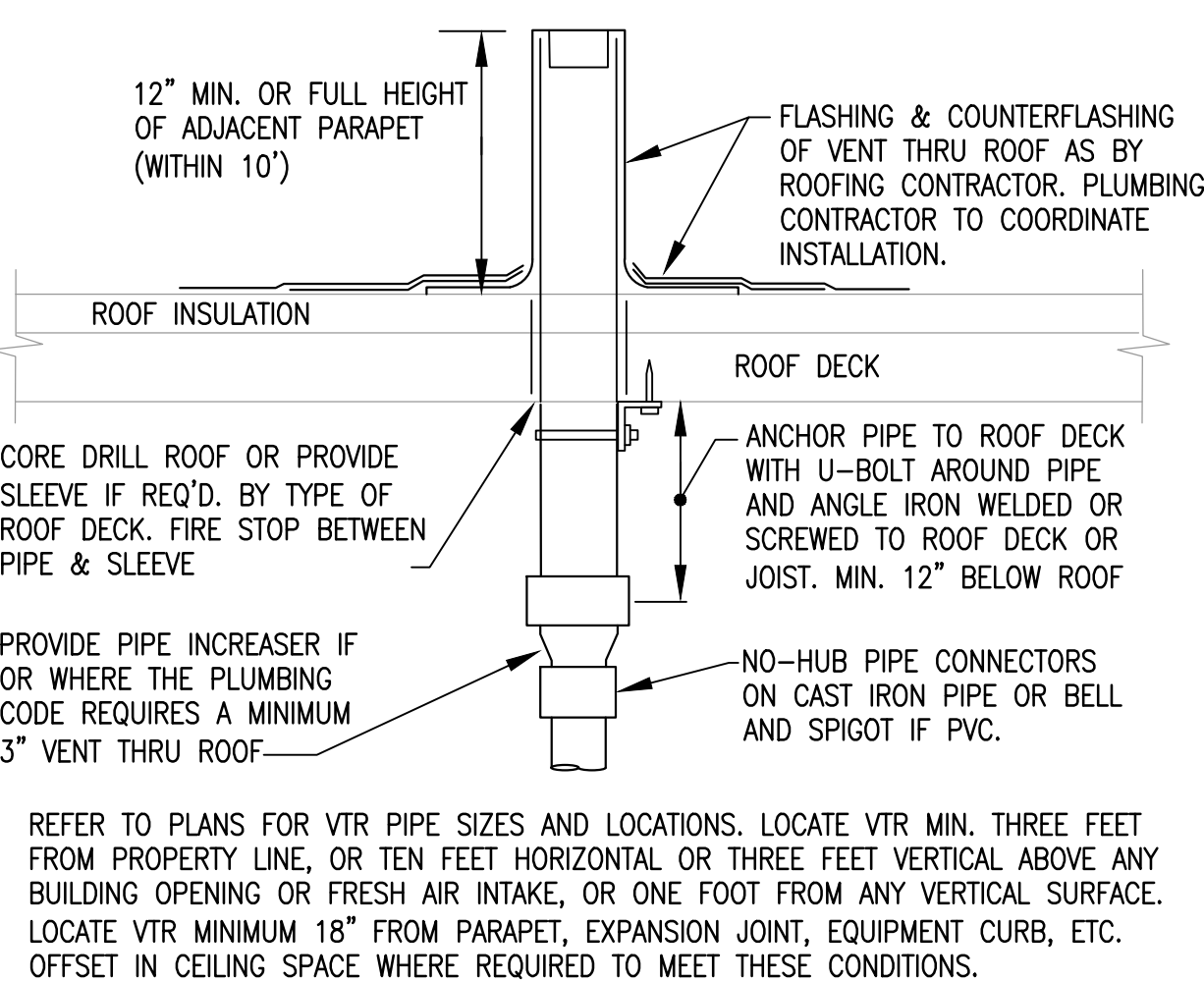


## PIPE HANGER - BAR JOIST

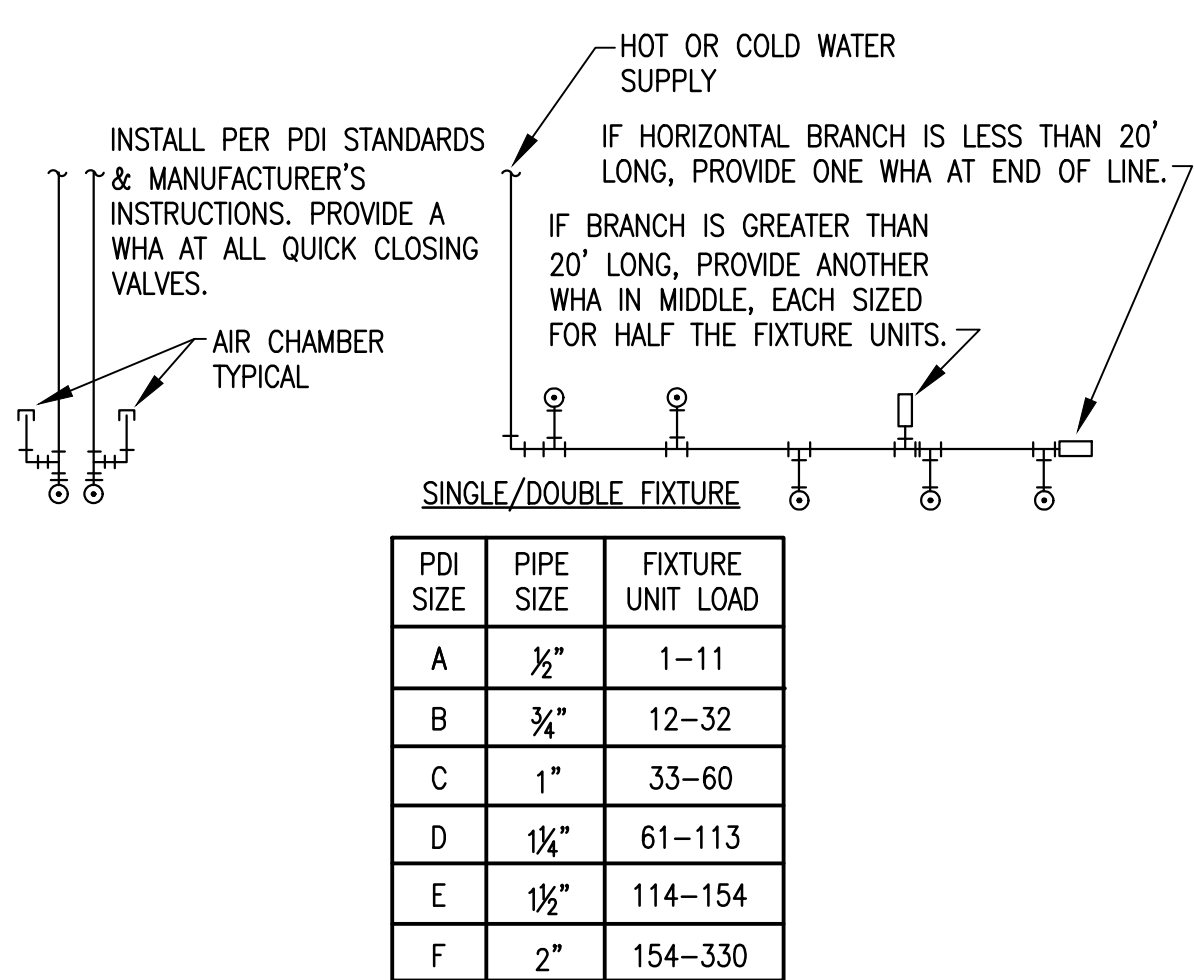
PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. SLOPE ALL WATER PIPING SLIGHTLY TOWARD DRAINABLE LOCATIONS. HANGER SPACING FOR PIPE SIZE: AS INDICATED ON TABLE. CAST IRON: 10" AND WITHIN 1'-0" OF ALL JOISTS. ROD SIZES FOR PIPE SIZE: 2" AND SMALLER = ¾", 2½" TO 3" = ½", 4-¾", 6"-¾", 8" AND LARGER = ¾". LOCATE HANGERS WITHIN 1'-0" OF VALVES AND FITTINGS. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS WITHIN 1'-0" OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. CHAINS AND PERFORATED STRAP IRON AND STEEL ARE NOT ACCEPTABLE. DO NOT SUSPEND PIPE FROM JOIST BRACING MEMBERS. REFER TO CODE AND SPECIFICATIONS FOR FURTHER INFORMATION. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES, SEE "TRAPEZE PIPE HANGER DETAIL".

PIPE SIZE	COPPER PIPE HANGER SPACING	STEEL PIPE HANGER SPACING	RED PIPE HANGER SPACING
½"	5'	7'	32"
¾"	5'	7'	32"
1"	6'	7'	32"
1½"	7'	8'	32"
1½"	8'	9'	32"
2"	8'	10'	32"
2½"	10'	11'	32"
3"	11'	12'	32"
4"	12'	12'	32"

## VENT THRU ROOF - VTR



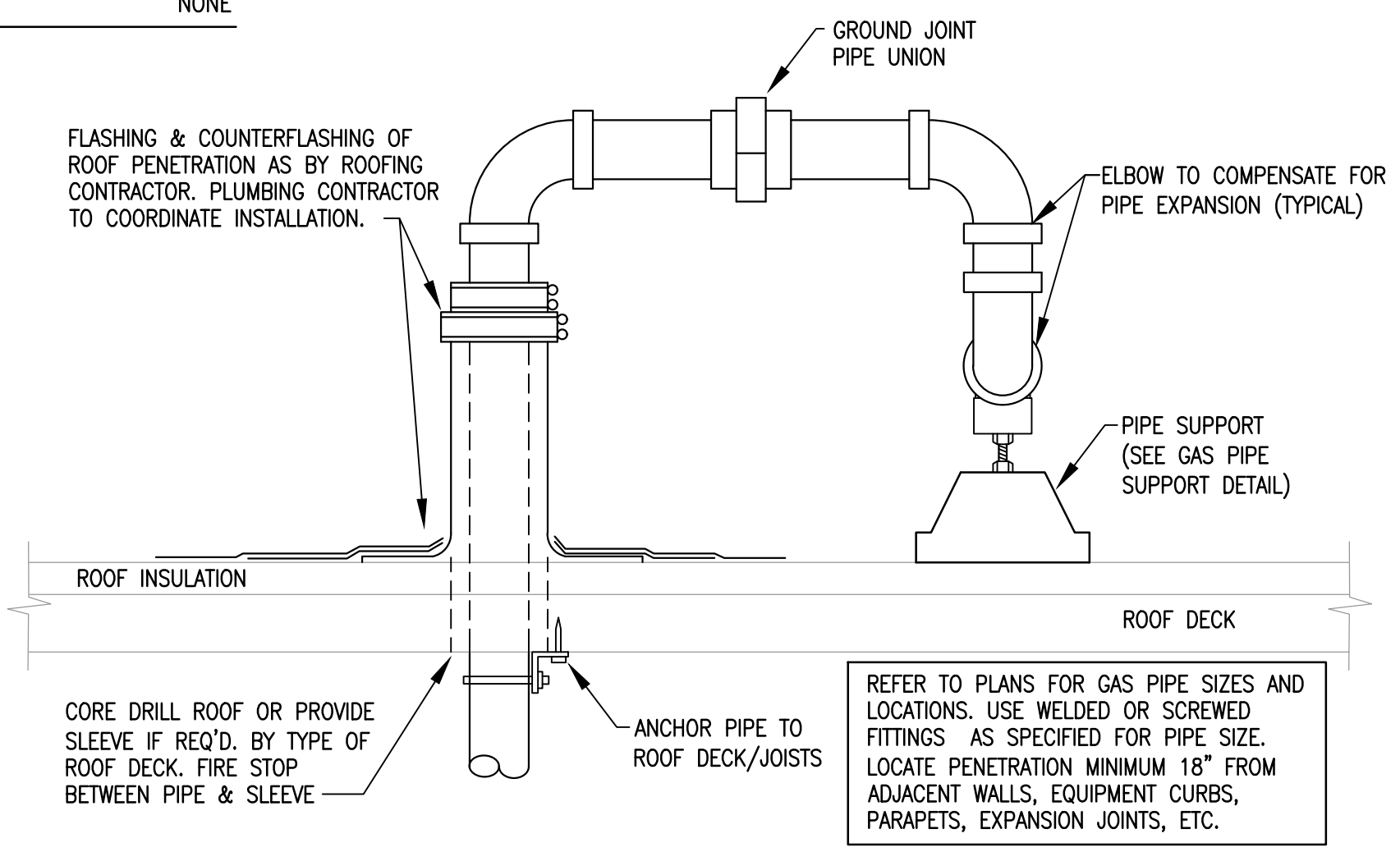
## EXTERIOR TWO-WAY CLEAN-OUT SCHEMATIC



## WATER HAMMER ARRESTERS

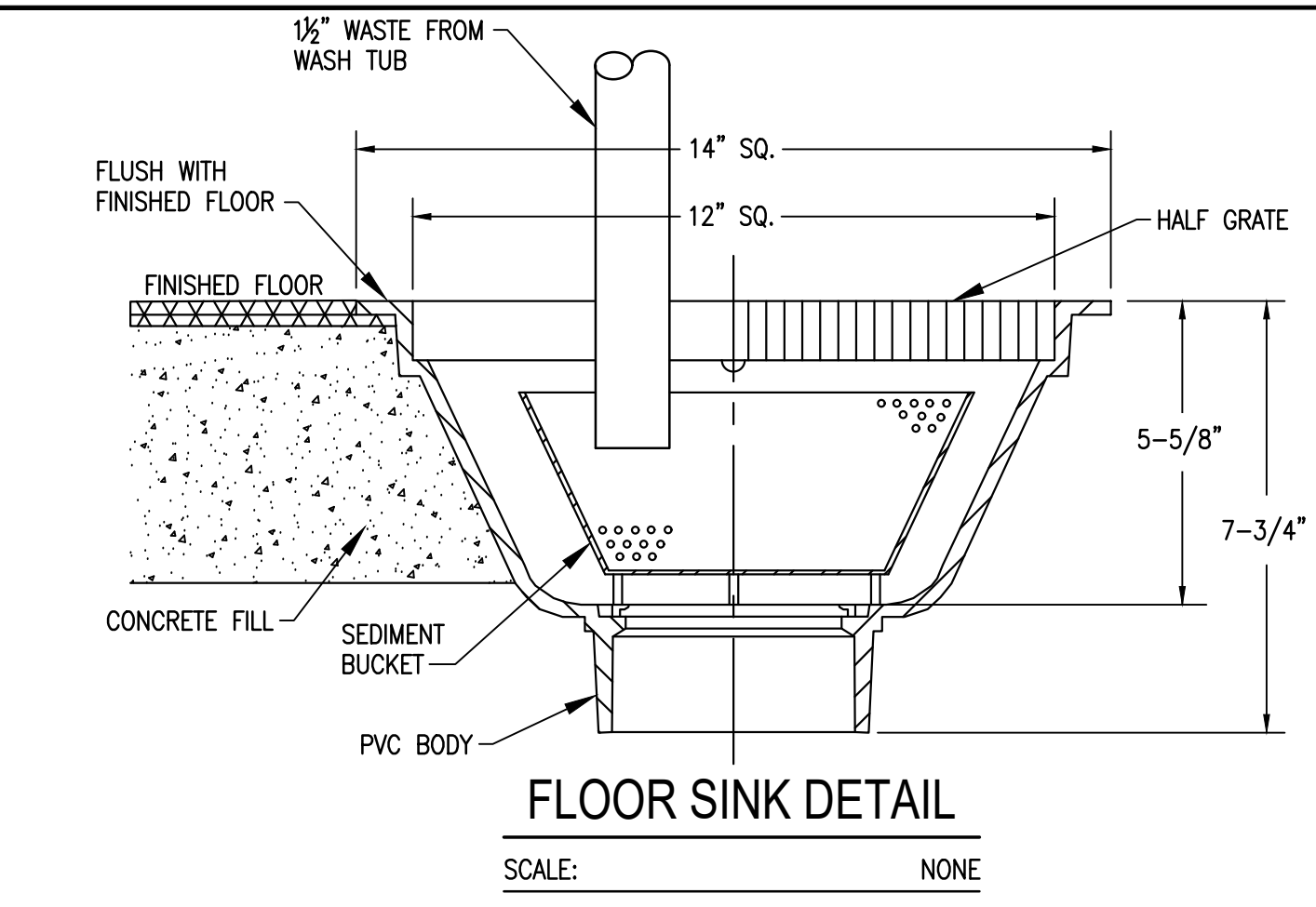
SCALE: NONE

## GAS PIPING ROOF PENETRATION

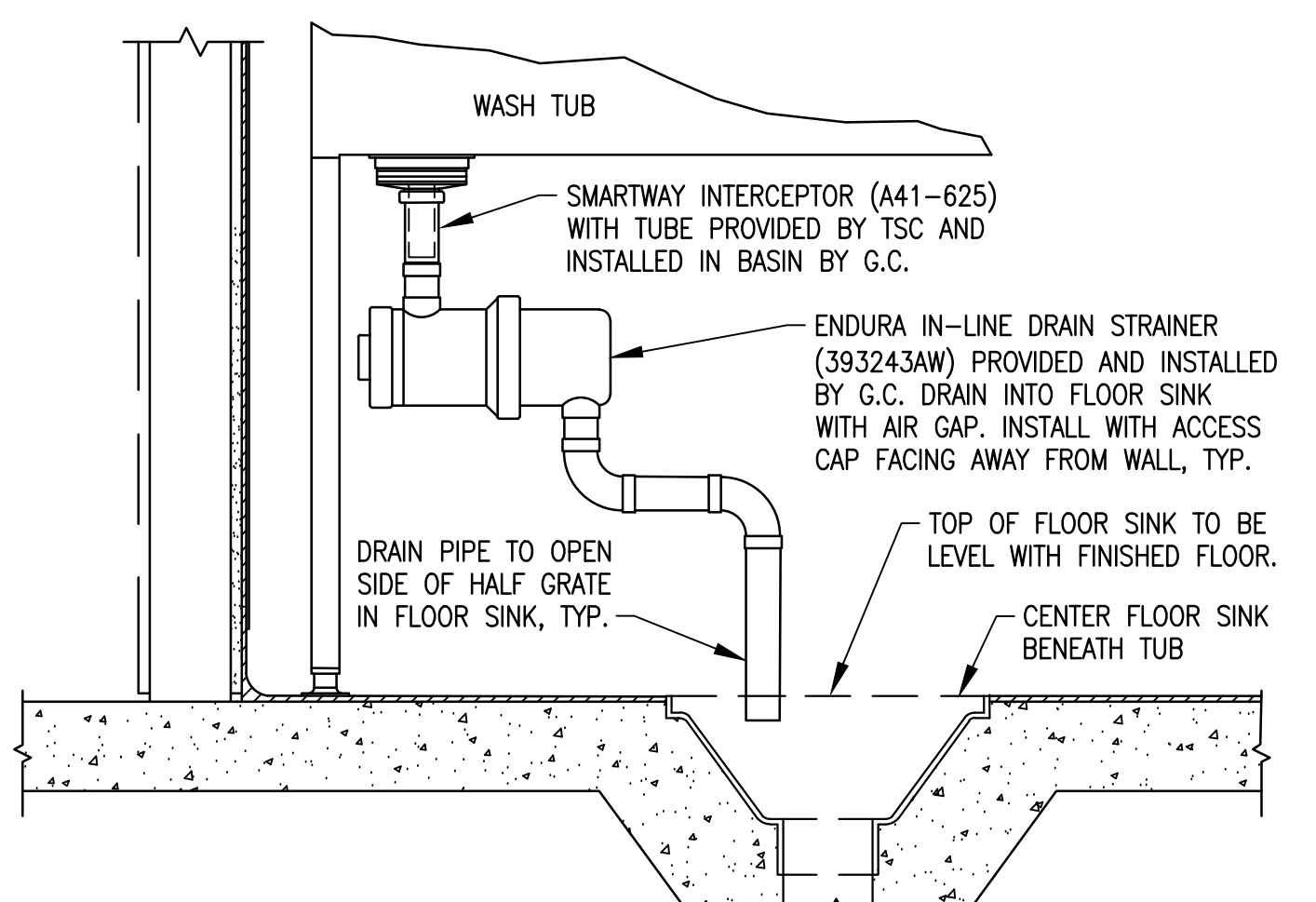


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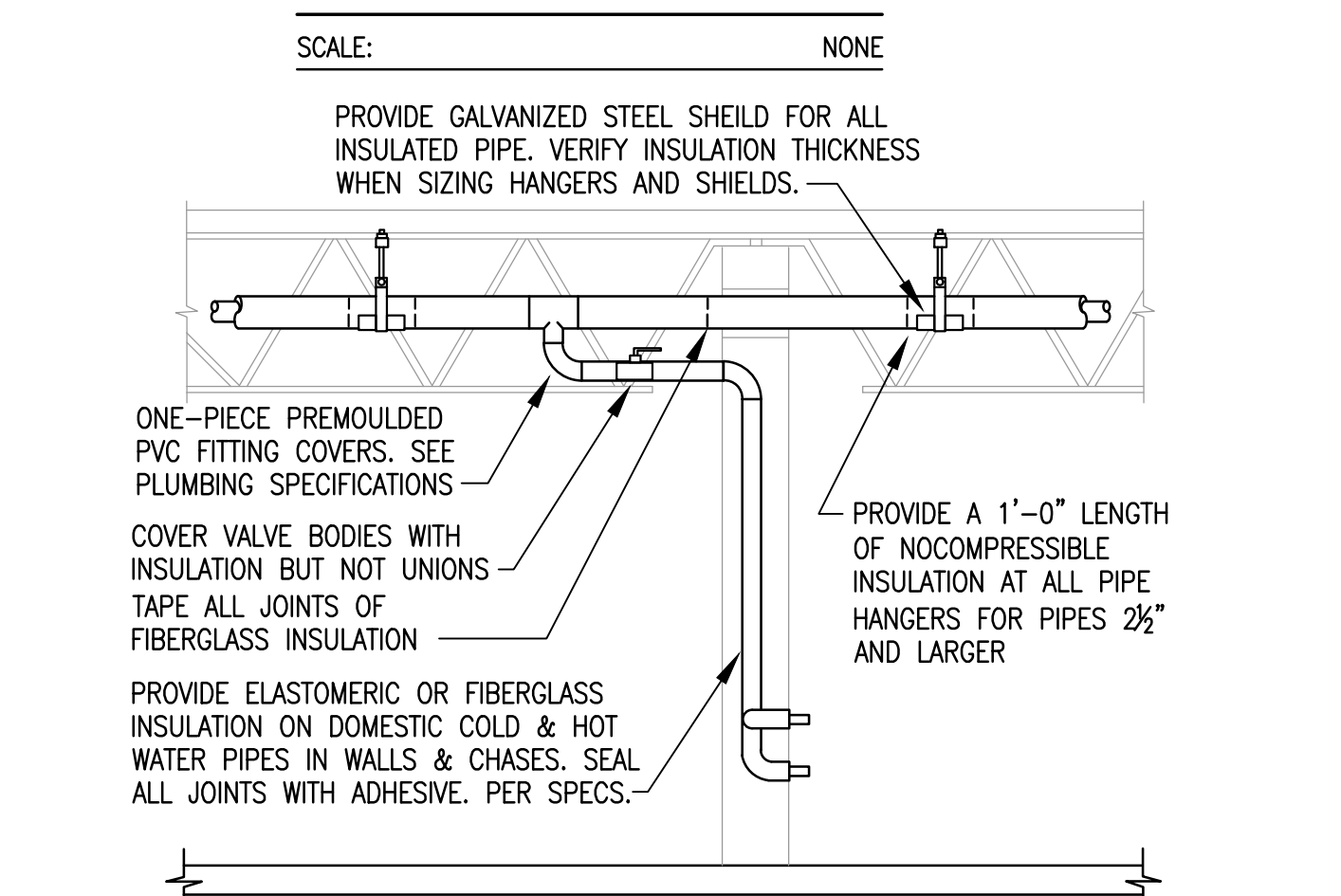
## FLOOR SINK DETAIL




## WASH TUB AT FLOOR SINK




## PIPE INSULATION - BAR JOIST







Schelton  
ENGINEERING



HOUMA,  
LOUISIANA

## 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.			

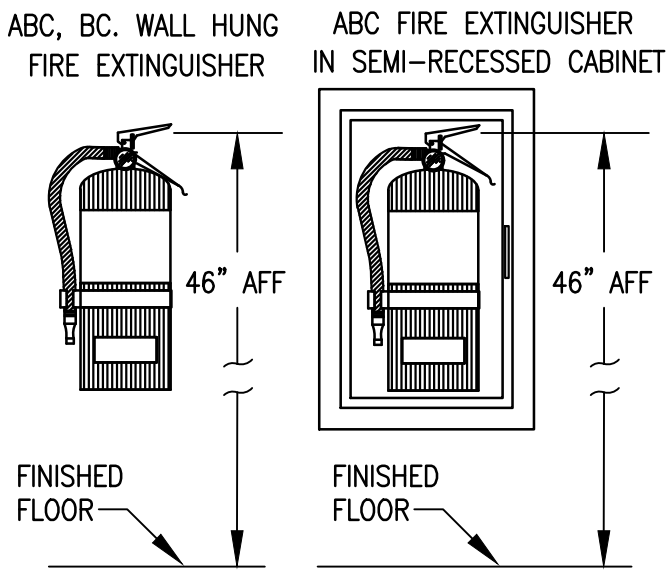
### GENERAL NOTES

- 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.
- CONTRACTOR TO RAISE SPRINKLER LINES, MAINS, AND BRANCHES AS HIGH AS POSSIBLE IN ALL EXPOSED TO DECK LOCATIONS.

### FIRE PROTECTION SPECIFICATIONS

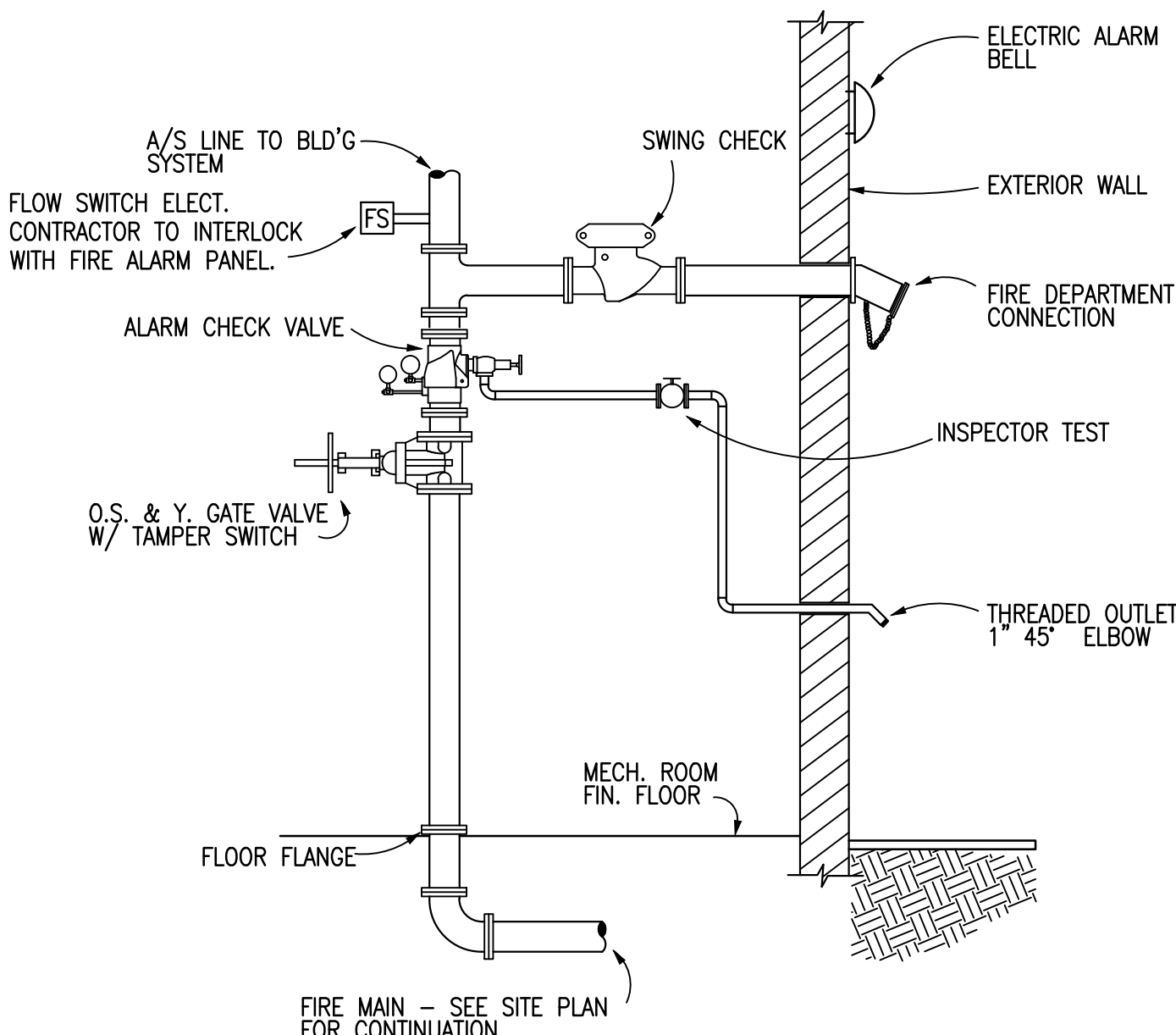
- THE SPRINKLER SYSTEM SHALL CONFORM TO NATIONAL FIRE PROTECTION ASSOCIATION 13 AND ALL APPLICABLE REGULATORY REQUIREMENTS AND BUILDING CODES AS INTERPRETED BY THE AUTHORITY HAVING JURISDICTION IN THE LOCALE OF THE PROJECT. WHERE CONFLICTS EXIST BETWEEN SUCH REGULATORY OR CODE REQUIREMENTS, SUCH CONFLICT SHALL BE IDENTIFIED FOR THE REVIEW OF THE ARCHITECT AND ENGINEER.
- CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND HYDRAULICALLY CALCULATED SPRINKLER SYSTEM AS INDICATED ON FLOOR PLANS. MINIMUM SCOPE OF WORK SHALL INCLUDE PROVIDING NEW PENDANT SPRINKLER HEADS 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 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.
- 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.

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



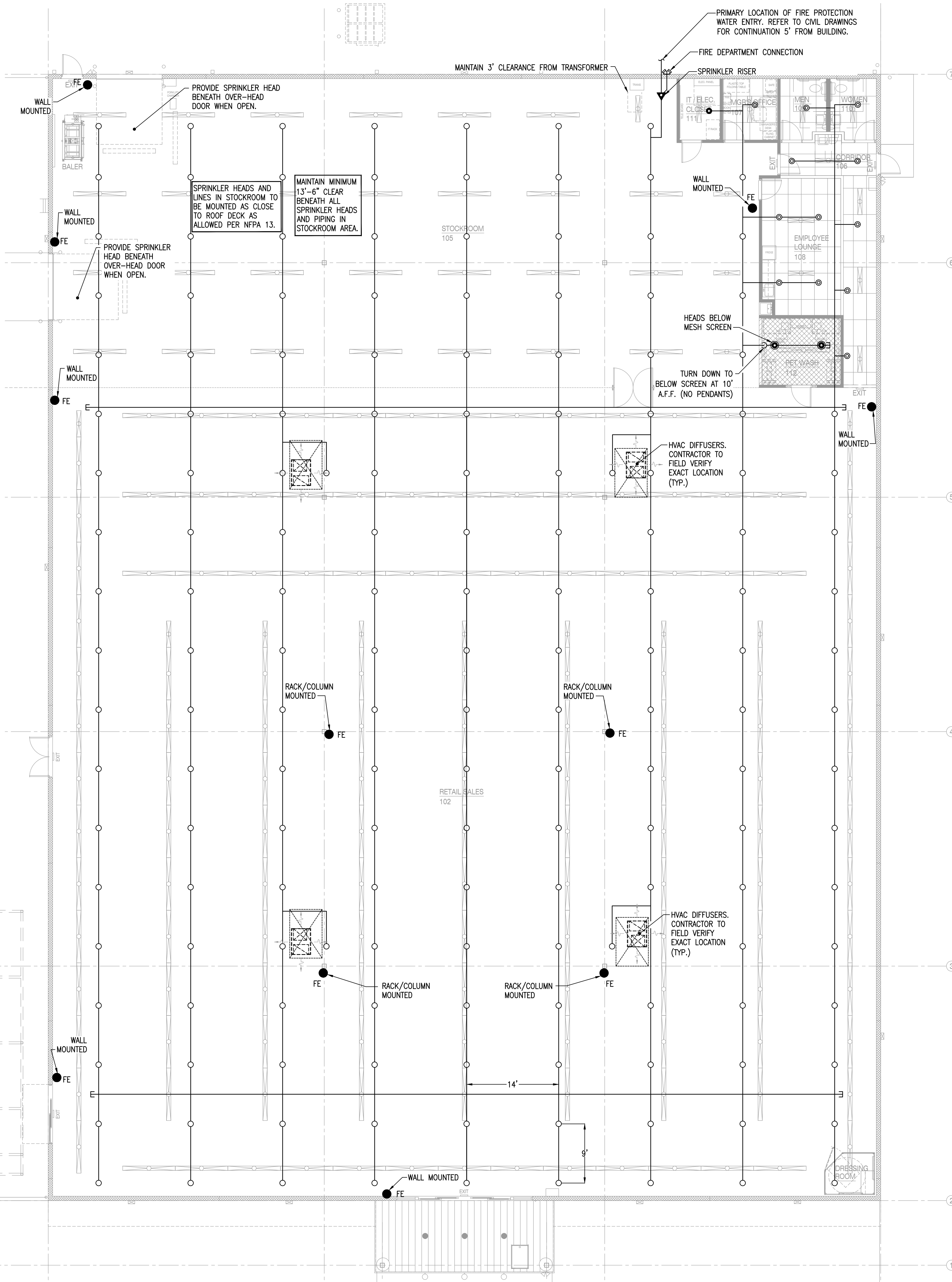
### FIRE EXTINGUISHER MOUNTING HEIGHT

SCALE: NONE



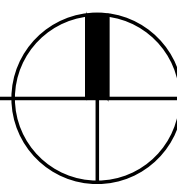
### FIRE LINE ENTRANCE DETAIL

SCALE: NONE



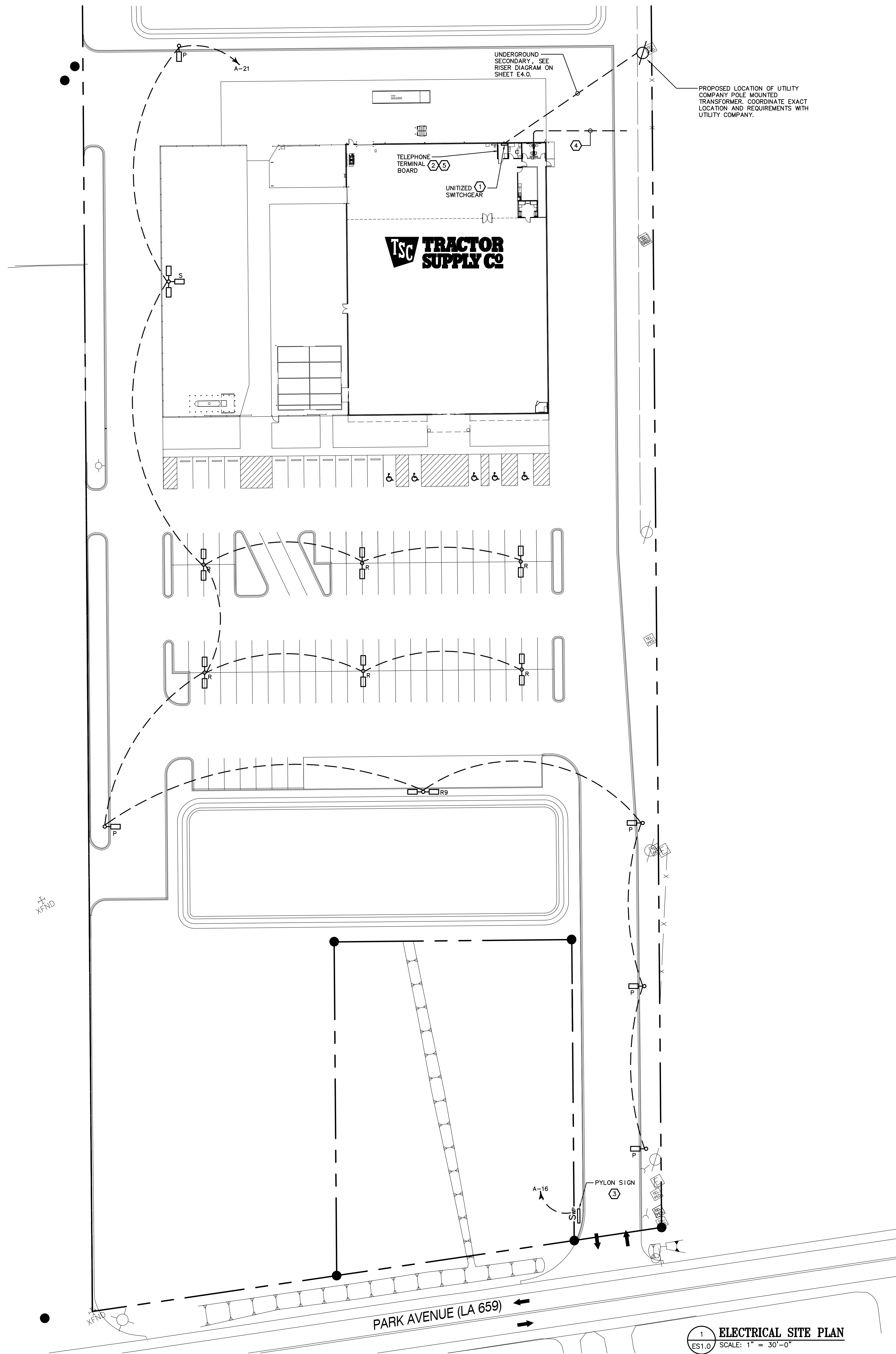
### FIRE PROTECTION PLAN

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





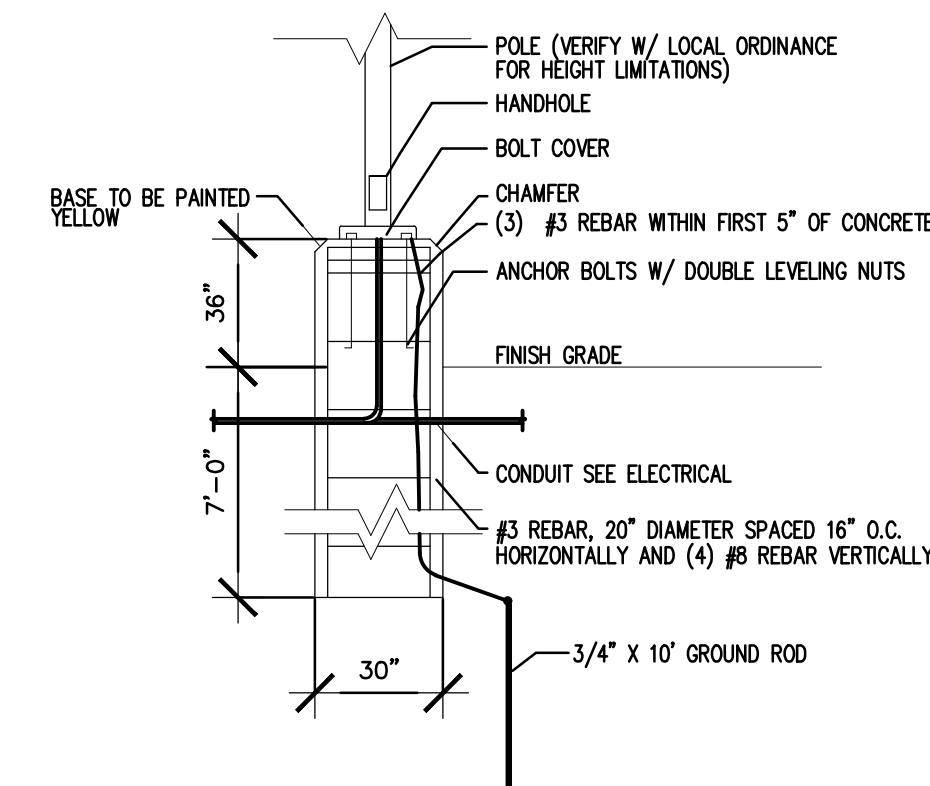
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PROPOSED LOCATION OF UTILITY COMPANY POLE MOUNTED TRANSFORMER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH UTILITY COMPANY.

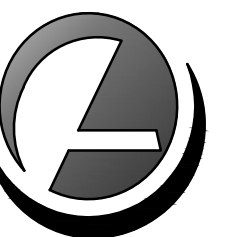
#### ○ SITE PLAN NOTES

1. 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.
2. COORDINATE INSTALLATION OF TELEPHONE SERVICE CONDUITS WITH LOCAL TELEPHONE COMPANY. INSTALL (2) 2" CONDUITS FROM TELEPHONE SERVICE POINT TO TELEPHONE TERMINAL BOARD.
3. 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 LOCATE PER VENDOR'S RECOMMENDATIONS.
4. PROVIDE A 1-1/2" CONDUIT FROM IRRIGATION CONTROLLER TO OUTSIDE OF CURBLINE. COORDINATE EXACT LOCATION WITH GC.
5. 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.



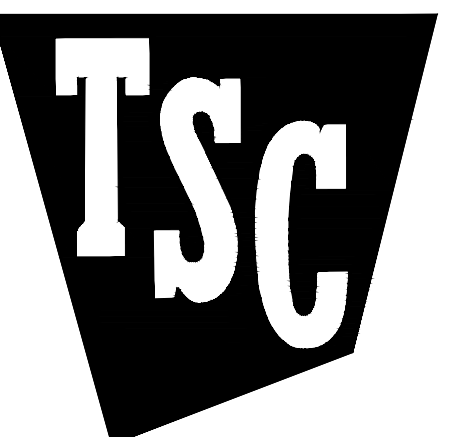
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TRACTOR SUPPLY COMPANY

**HOUMA  
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Job Number: 2485

Date: 01.20.2025

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Revisions:

ELECTRICAL SITE PLAN



**PRELIMINARY**  
NOT FOR CONSTRUCTION

Sheet Number: **ES1.0**

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



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	VOLT	LAMPS QTY	TYPE	WATTAGE	MOUNTING	REMARKS	
A	LITHONIA LIGHTING	CLX-L96-1000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PLR2ANG-WH	277	10000	LUMEN LED 4000K	70.8 WATTS	SURFACE MOUNTED	8' LED STRIP	
AE	LITHONIA LIGHTING	CLX-L96-1000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PS1050-SPD-PLR2BELNG-WH	277	10000	LUMEN LED 4000K	70.8 WATTS	SURFACE MOUNTED	SAME AS 'A' BUT WITH INTEGRAL EMERGENCY BATTERY	
A1	LITHONIA LIGHTING	CLX-L48-5000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PLR2ANG-WH	277	5000	LUMEN LED 4000K	35.4 WATTS	SURFACE MOUNTED	4' LED STRIP	
A1E	LITHONIA LIGHTING	CLX-L48-5000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PS1050-SPD-PLR2BELNG-WH	277	5000	LUMEN LED 4000K	35.4 WATTS	SURFACE MOUNTED	SAME AS 'A1' BUT WITH INTEGRAL EMERGENCY BATTERY	
B	LITHONIA LIGHTING	CLX-L96-1000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PLR2ANG-WH	277	10000	LUMEN LED 4000K	70.8 WATTS	SUSPENDED MOUNTED	8' LED STRIP	
BE	LITHONIA LIGHTING	CLX-L96-1000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PS1050-SPD-PLR2BELNG-WH	277	10000	LUMEN LED 4000K	70.8 WATTS	SUSPENDED MOUNTED	SAME AS 'B' BUT WITH INTEGRAL EMERGENCY BATTERY	
B1	LITHONIA LIGHTING	CLX-L48-5000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PLR2ANG-WH	277	5000	LUMEN LED 4000K	35.4 WATTS	SUSPENDED MOUNTED	4' STRIP	
B1E	LITHONIA LIGHTING	CLX-L48-5000LM-SEF-FDL-MVOLT-G210-40K-80CRI-PS1050-SPD-PLR2BELNG-WH	277	5000	LUMEN LED 4000K	35.4 WATTS	SUSPENDED MOUNTED	SAME AS 'B1' BUT WITH INTEGRAL EMERGENCY BATTERY	
G	MAXLITE	HURS-45-U-L-P	UNV	1	5,760 LUMEN LED 5000K	45.0 WATTS	PENDANT	EXTERIOR HAZARDOUS AREA LED PENDANT LIGHT	
K	LITHONIA LIGHTING	DSXW1-LED-10C-1000-50K-T3M-MVOLT-D08XD	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/BCM-M	277	1	18W LED 4000K	18.0 WATTS	WALL MOUNT	EXTERIOR GOOSENECK WALL LIGHT	
L	INDY LIGHTING	L6-45-35-U-G3-L80QHW-C-L-WH	UNV	1	4500 LUMEN LED 3500K	42.3 WATTS	RECESSED	DOWNLIGHT, DAMP LOCATION RATED	
P	LITHONIA LIGHTING	RSX1-LED-P3-50K-R3-MVOLT-SPA	UNV	1	14,000 LUMEN LED 5000K	109 WATTS	POLE MOUNTED ON 22' BRONZE POLE	PARKING LOT LIGHTS	
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	
S	LITHONIA LIGHTING	RSX1-LED-P3-50K-R3-MVOLT-SPA	UNV	3	14,000 LUMEN LED 5000K	327 WATTS	THREE HEADS AT 90 DEGREES 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	VEX-U-BP-WB-WH-R6	UNV	-	INCL.	0.8 WATTS	SURFACE	LED EXIT SIGN	
XR	EXITRONIX LIGHTING	VEX-U-BP-WB-WH-R6 / MLED2-G-WP	UNV	-	INCL.	3.8 WATTS	SURFACE	LED EXIT SIGN WITH EXTERIOR REMOTE HEADS	
XW	EXITRONIX LIGHTING	VEX-WPC-1-R-W-BH-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	BVT2-LD5-9-DR-UNV-L850-CD1-WL-U	UNV		9000 LUMEN LED 5000K	66.0 WATTS	SUSPENDED MOUNTED	8' LED STRIP W/ LENS AND GASKET	
YE	METALUX	BVT2-LD5-9-DR-UNV-EL10W-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.

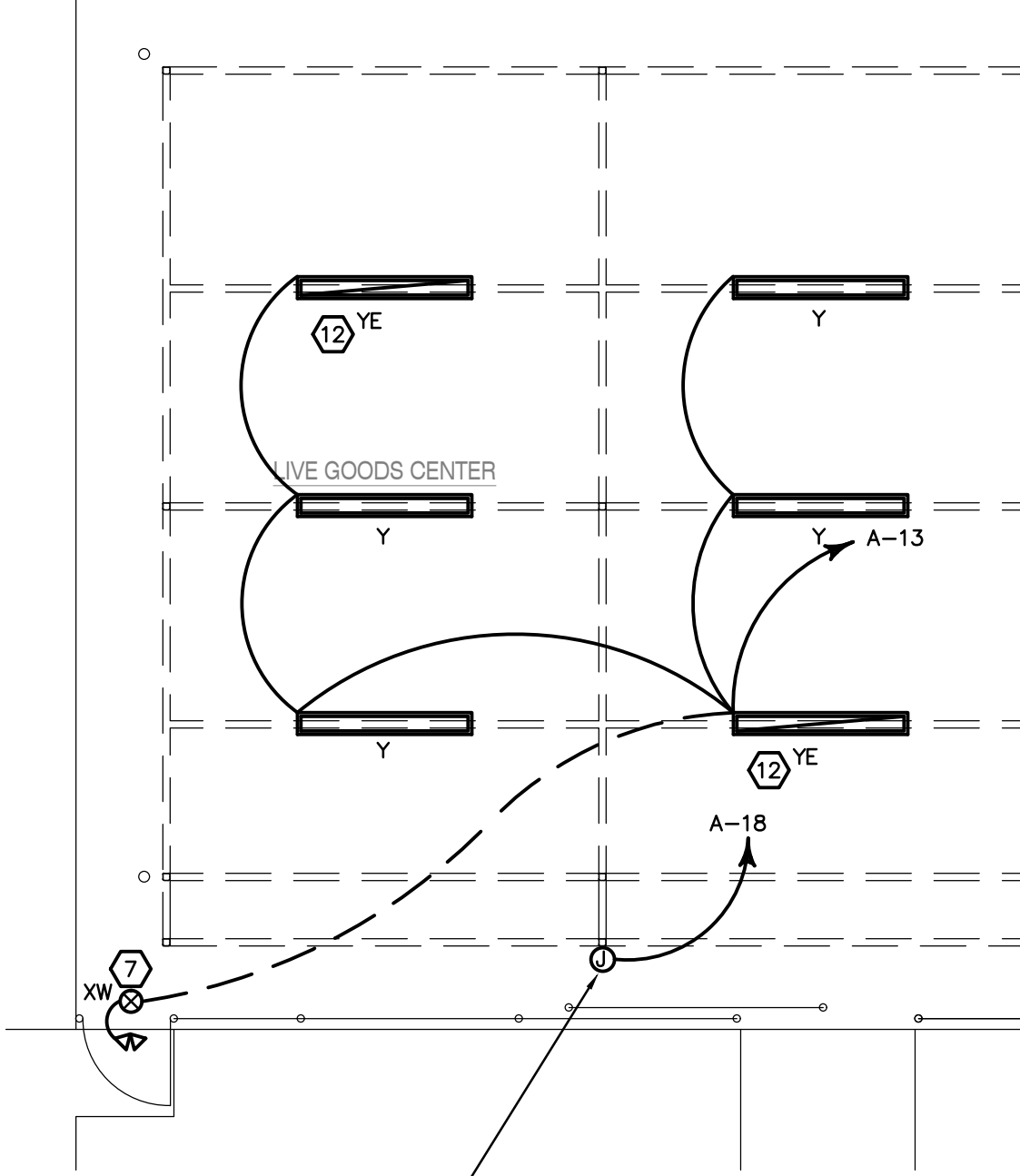
### PLAN NOTES

- 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).
- NOTE NOT USED.
- COORDINATE HEIGHT OF BUILDING MOUNTED LIGHTING FIXTURES WITH ARCHITECT AND G.C.
- COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- NOTE NOT USED.
- PROVIDE RELAYS AS REQUIRED TO OPERATE LIGHTING VIA OCCUPANCY SENSOR.
- CIRCUIT EMERGENCY BALLAST/BATTERY BACKUP TO UNSWITCHED CONTINUOUSLY HOT CONDUCTOR OF CIRCUIT INDICATED.
- MOUNT AT 12" BELOW CEILING.
- OCCUPANCY SENSOR EQUAL TO SENSOR SWITCH "CM-9-R/MP-20" SENSOR TO CONTROL LIGHTS.
- TSC CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT AND LOCATIONS OF GOOSENECK FIXTURES WITH ARCHITECT.
- CONNECT BOTH EMERGENCY AND NORMAL OPERATION BALLASTS OF NIGHT LIGHTING FIXTURE TO UNSWITCHED CONTINUOUSLY HOT CIRCUIT CONDUCTOR OF CIRCUIT INDICATED. (A-2)
- 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.

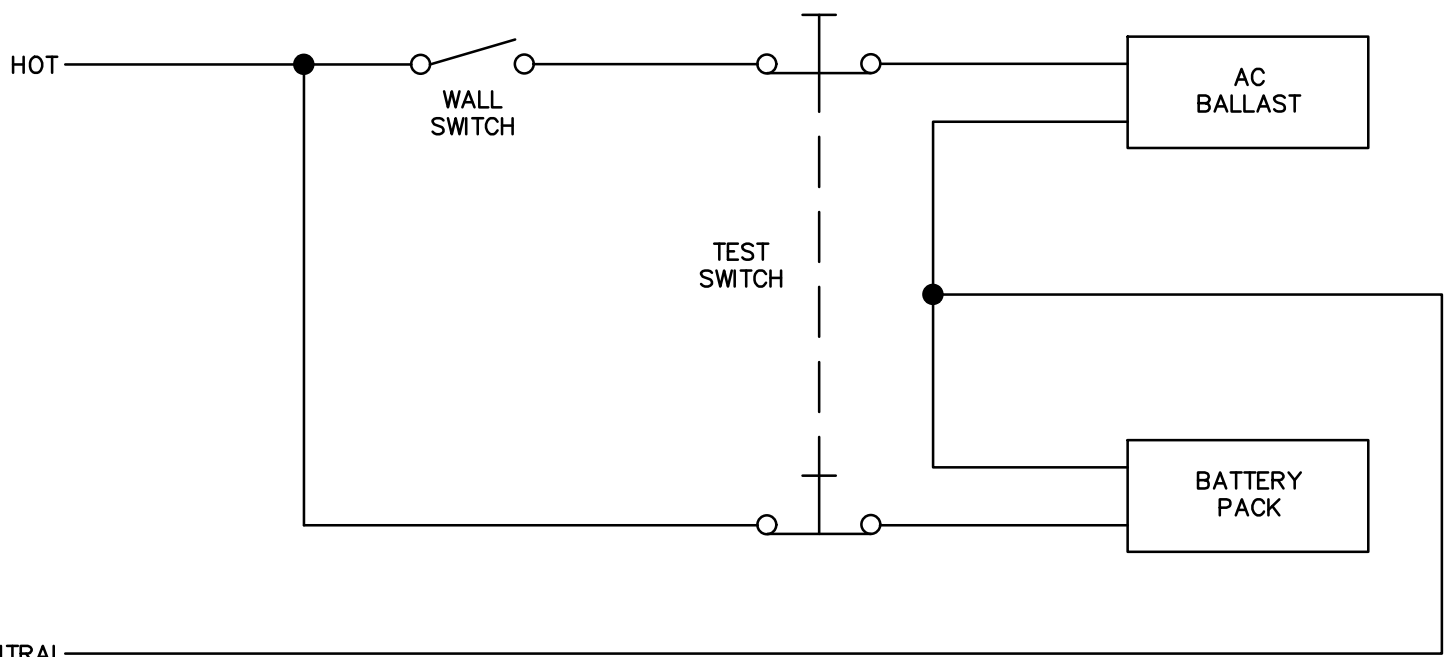
ROUTE CONDUITS FOR POWER FROM BUILDING TO BOTTOM OF LIVE GOODS CENTER ROOF STRUCTURE W/LIQUID-TIGHT NON-METALLIC CONDUIT, LESS THAN 6' LENGTH. TRANSITION TO HARD CONDUIT AT STRUCTURE.



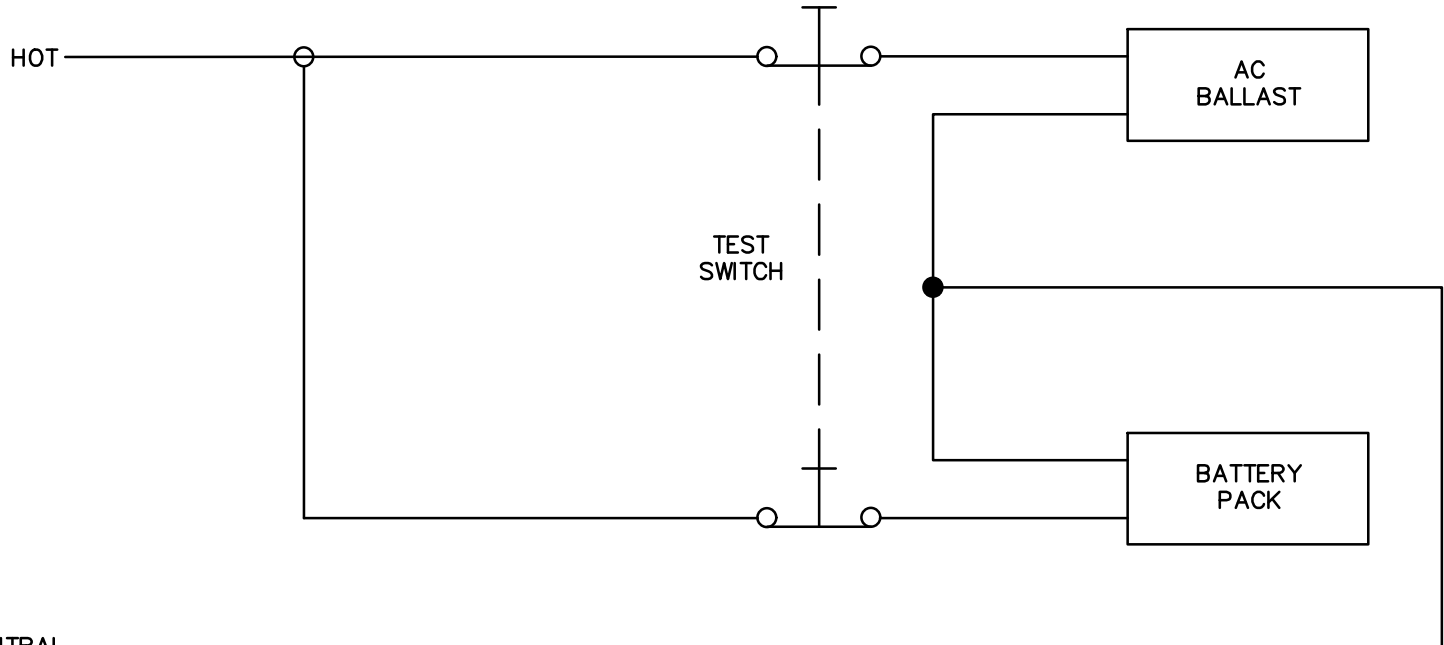
JUNCTION BOX FOR SIGN FIELD. VERIFY EXACT LOCATION WITH GENERAL CONTRACTOR & SIGN SUPPLIER. PROVIDE DISCONNECTING MEANS FOR SIGN PER NEC.

### 1 GENERAL LIGHTING PLAN

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



### SWITCHED

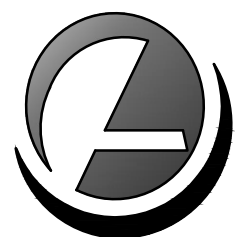


### UNSWITCHED

### 2 TYPICAL BATTERY PACK WIRING DIAGRAM

E1.0 NO SCALE

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NOT FOR CONSTRUCTION



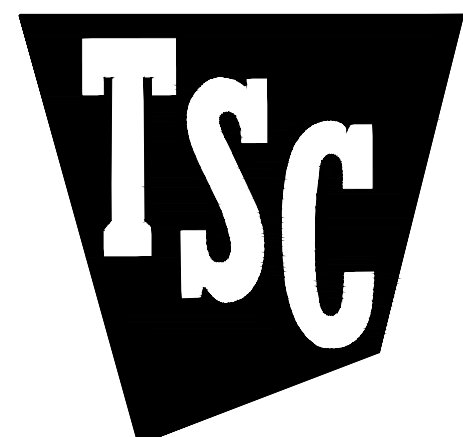
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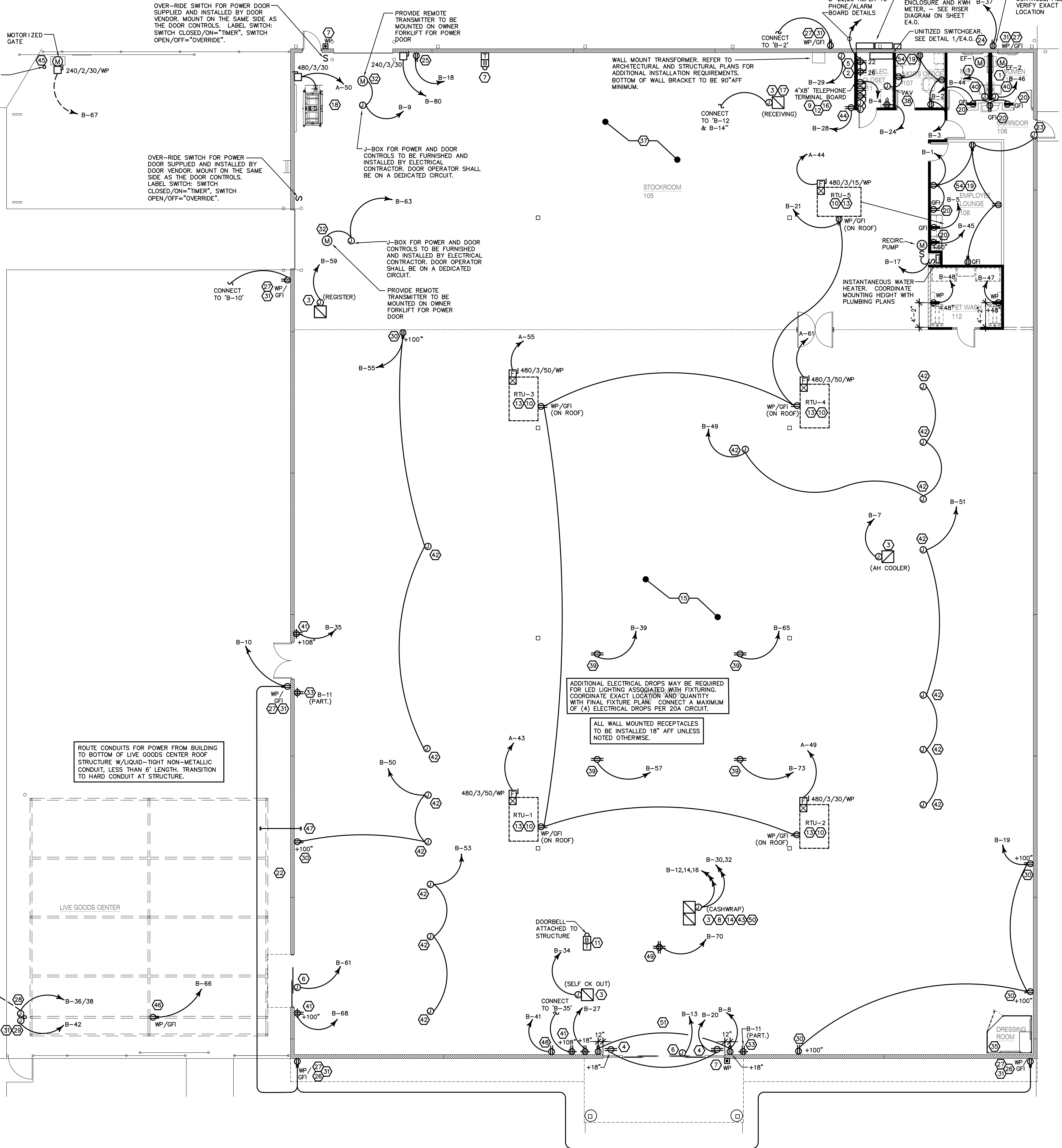
GENERAL LIGHTING PLAN

Sheet Number: **E1.0**



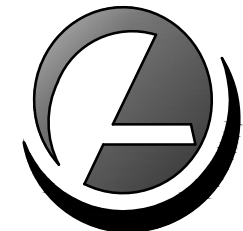
PLAN NOTES:

- 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 #PP2-L186-HW-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 1/2" CLAMP TO THE TOP OF THE POWER POLE AT THE BAR JOIST. LOOSEN THE 1/4" 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 ELECTRIC 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 55-425 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 RECEPTABLES PER CIRCUIT MAXIMUM. (COORDINATE COUNTER LOCATIONS WITH FIXTURE DRAWINGS AND G.C.) THE OUTLET BOXES WILL BE PRE-INSTALLED IN CASEWORK.
- (3) DUPLEX RECEPTABLES 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 55-425 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 BALER 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 GFI OUTLETS ARE NOT INSTALLED, OUTLETS SHALL BE CIRCUITED TO A GFI BREAKER. LABEL OUTLETS THAT ARE ON THE GFI 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. CONCEALED MORTISE MOUNT. PROVIDE AND PULL TWO #16 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.
- PROVIDE A 1-1/2" CONDUIT FROM IRRIGATION CONTROLLER TO OUTSIDE OF CURBLINE. 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 SCP 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" AFG. CONTRACTOR SHALL PROVIDE SIGN AT PUSHBUTTON TO IDENTIFY AS "PROPANE - CONTAINER LIQUID VALVE EMERGENCY SHUTOFF". COORDINATE EXACT MOUNTING LOCATION OF PUSHBUTTON WITH ARCHITECT. PUSHBUTTON SHALL BE INSTALLED A MINIMUM OF 25'-0" FROM DISPENSER BUT NO MORE THAN 100'-0" FROM DISPENSER AND MUST BE WITHIN SITE OF THE DISPENSER. 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. RECEPTABLES 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 CORDLESS 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 UNIT. JUNCTION BOX TO BE COOPER CROUSE HINDS MODEL # QUAW26. 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. JUNCTION BOX MUST BE CLASS 1, DIVISION 1 RATED, MEET ALL DIVISION REQUIREMENTS PER NFPA, AND MUST PASS ELECTRICAL INSPECTION.
- 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.
- "CHICK 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 #HBLC40123T.
- 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 FIXTURING. 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 #3.
- 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 16" 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 POLES 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 #K1XG12-0.5 OR APPROVED EQUAL MOUNT BUCK BOOST TRANSFORMER ADJACENT TO ELECTRICAL PANEL. 240V MUST BE PROVIDED AT THE PROPANE DISPENSER.
- BULK PROPANE VENDOR NOTE:** INSTALL CONDUIT SEALS FOR CLASS 1, DIVISION 2 HAZARDOUS ENVIRONMENT ON BOTH ENDS OF ANY CONDUIT THAT ROUTES BENEATH THE CLASS 1, DIVISION 2 BOUNDARY OF THE PROPANE DISPENSING SYSTEM WITHIN TEN FEET OF EMERGENCE OF CONDUIT FROM BELOW GRADE. CLASS 1, DIVISION 2 HAZARDOUS BOUNDARY EXTENDS FROM FIVE FEET FROM DISPENSING SYSTEM TO 20 FEET OF DISPENSING SYSTEM. FOR CONDUITS ROUTING WITHIN FIVE FEET OF DISPENSING SYSTEM, SEALS SHALL BE RATED FOR CLASS 1, DIVISION 1 HAZARDOUS ENVIRONMENT.
- PROVIDE AUTOMATIC CONTROL OF AT LEAST 50% OF THE 120V, 15 AND 20A RECEPTABLES LOCATED IN THE MANGER'S OFFICE AND BREAK ROOM PER THE 2021 IECC. RECEPTABLES SHALL BE CONTROLLED BY AN OCCUPANT SENSOR THAT SHALL TURN RECEPTABLES OFF WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING SPACE. RECEPTABLES SPECIFICALLY DESIGNED FOR EQUIPMENT REQUIRING CONTINUOUS OPERATION SHALL NOT BE INCLUDED IN CONTROLS. VERIFY WHICH RECEPTABLES ARE TO BE CONTROLLED WITH TSC PROJECT MANAGER.



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

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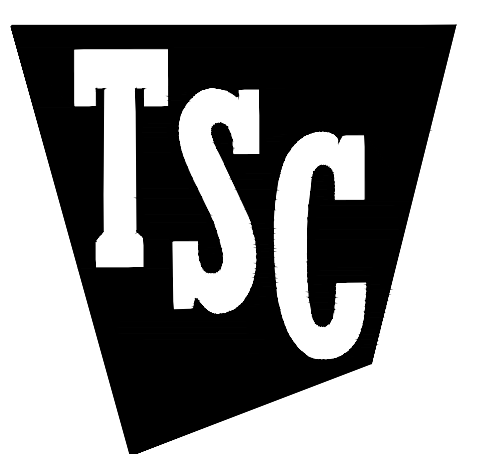
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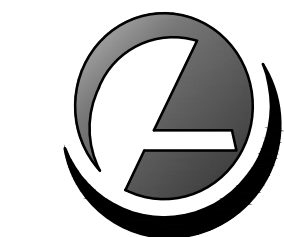
Revisions:

Revisions:

GENERAL POWER PLAN

Sheet Number: E2.0





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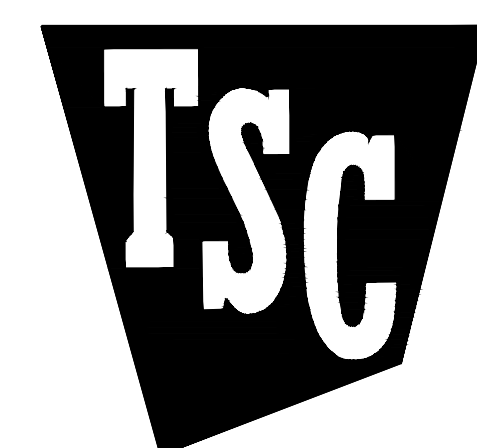
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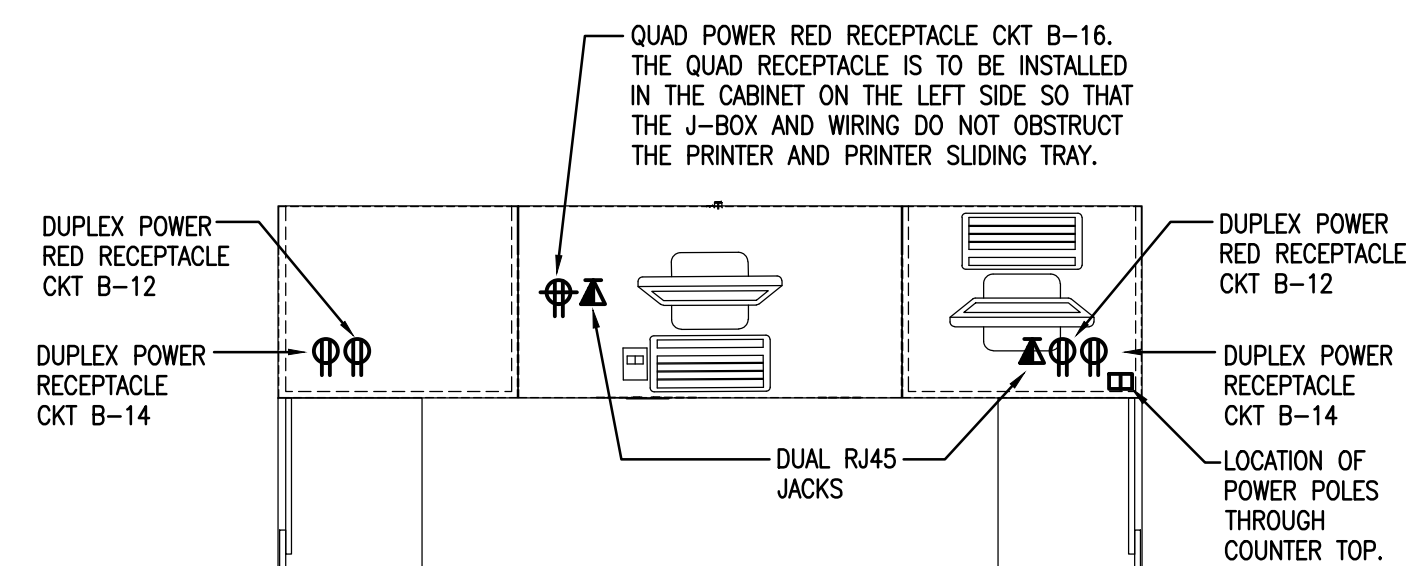


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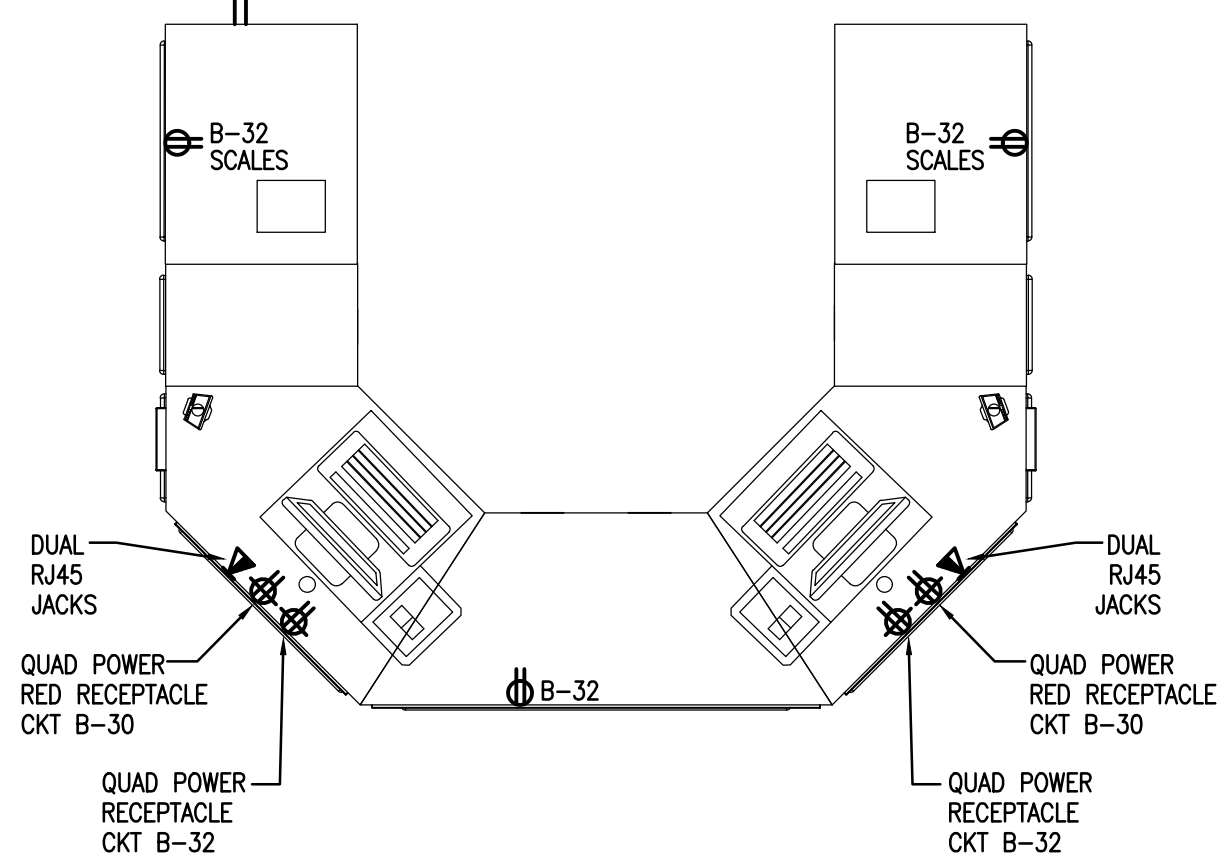


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NOTE:  
JUNCTION BOXES FOR RECEPTACLES SHOWN ARE PRE-MOUNTED INTEGRAL TO THE CASEWORK. VERIFY EXACT LOCATION. CONTRACTOR SHALL PROVIDE AND INSTALL JUNCTION BOXES FOR DATA OUTLETS. VERIFY LOCATION WITH TSC PROJECT MANAGER.

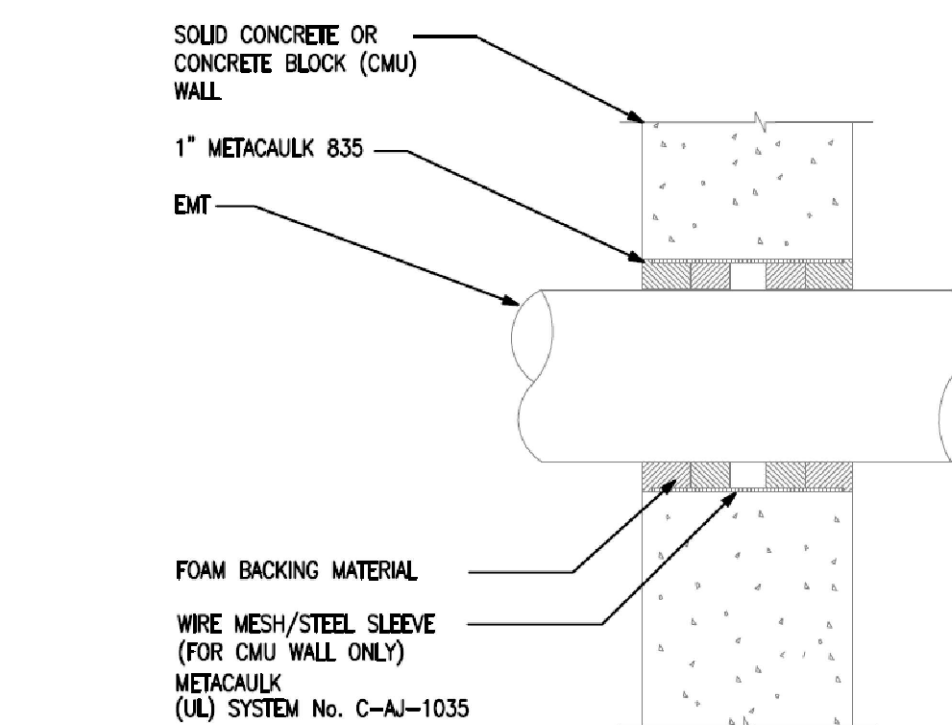


7 FUSION CASHWRAP DETAIL  
E3.1 N.T.S.

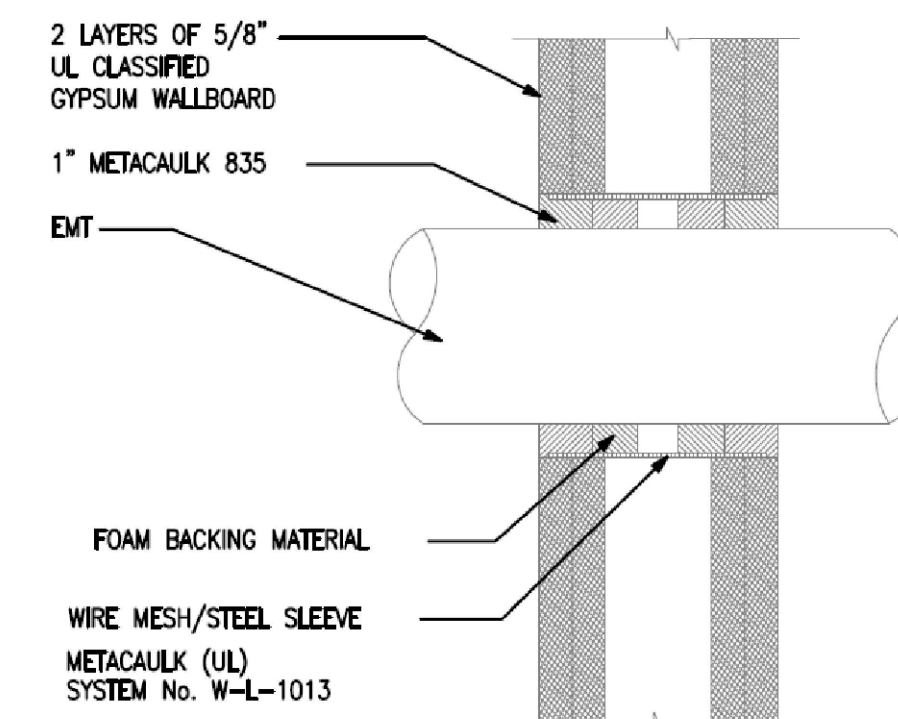
6 NOT USED  
E3.1 N.T.S.

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

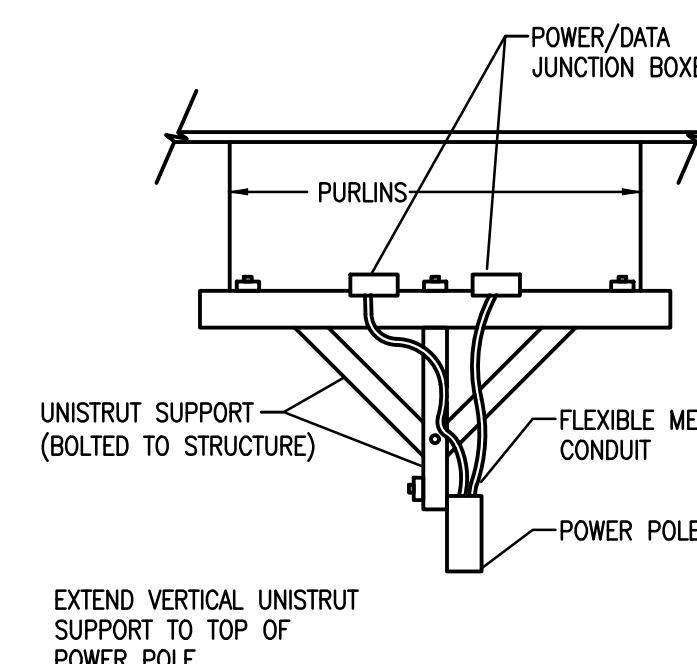
9 NOT USED  
E3.1 N.T.S.



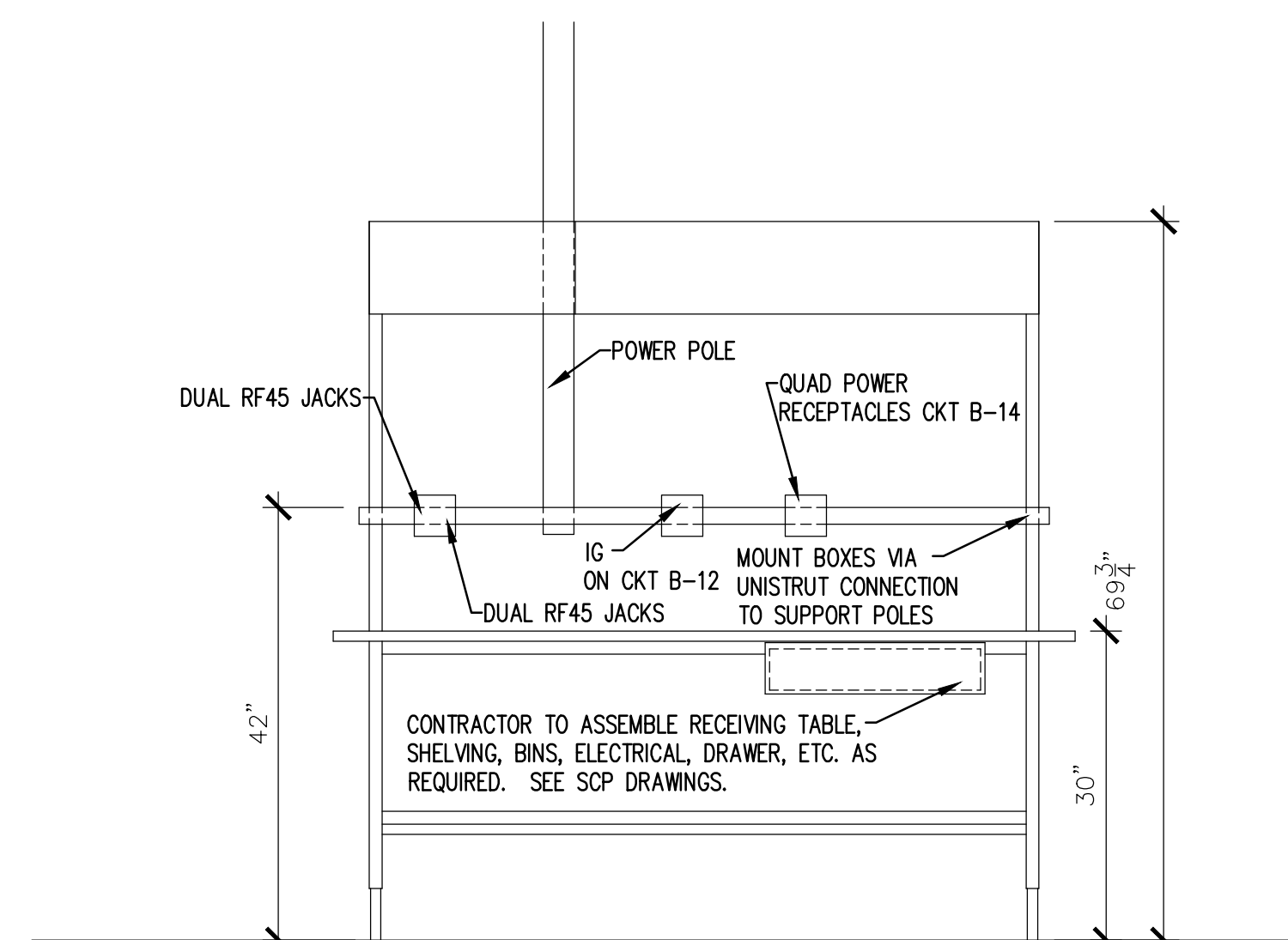
1 CONCRETE WALL PENETRATION (2HR.)  
E3.1 N.T.S.



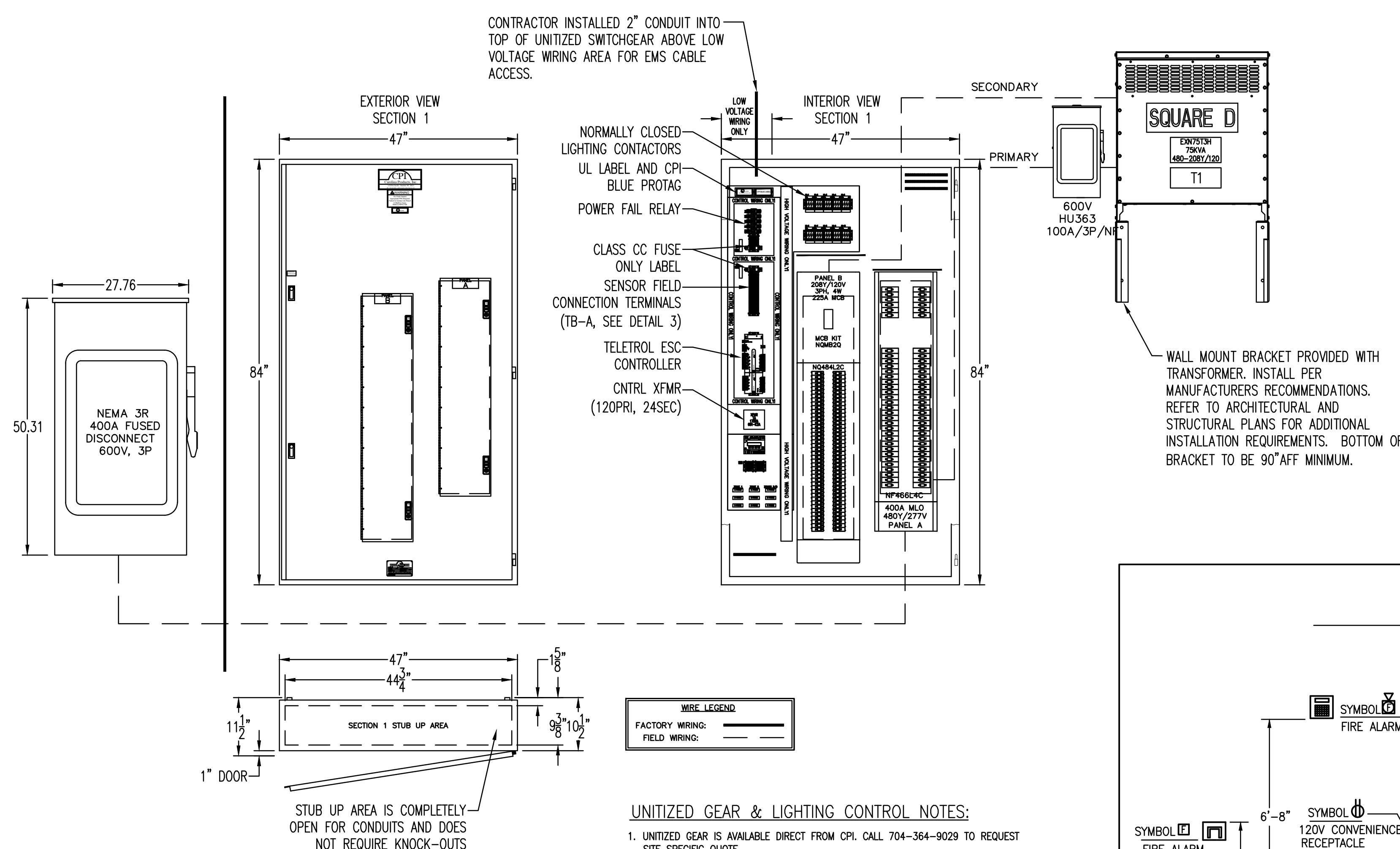
2 GYPSUM WALL PENETRATION (2HR.)  
E3.1 N.T.S.



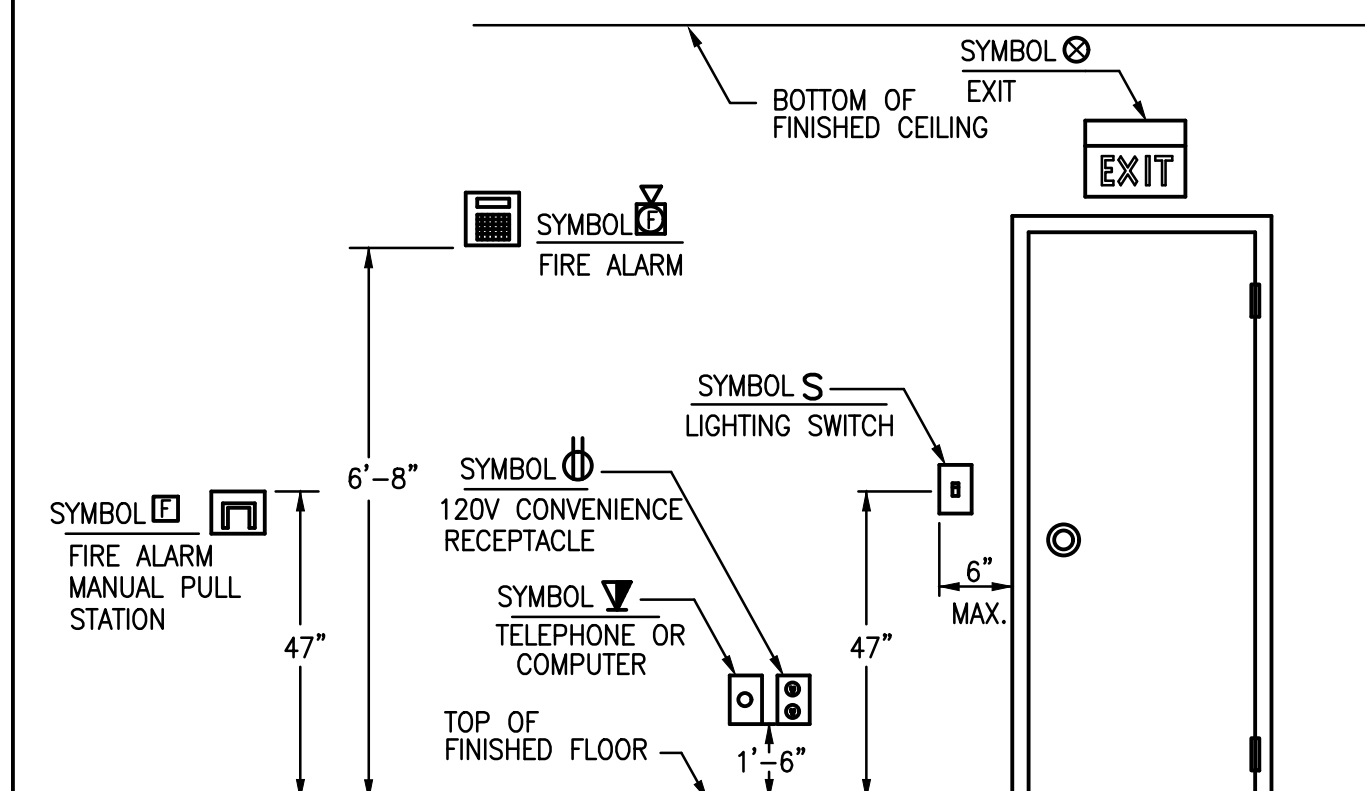
3 POWER POLE CONNECTION DETAIL  
E3.1 N.T.S.



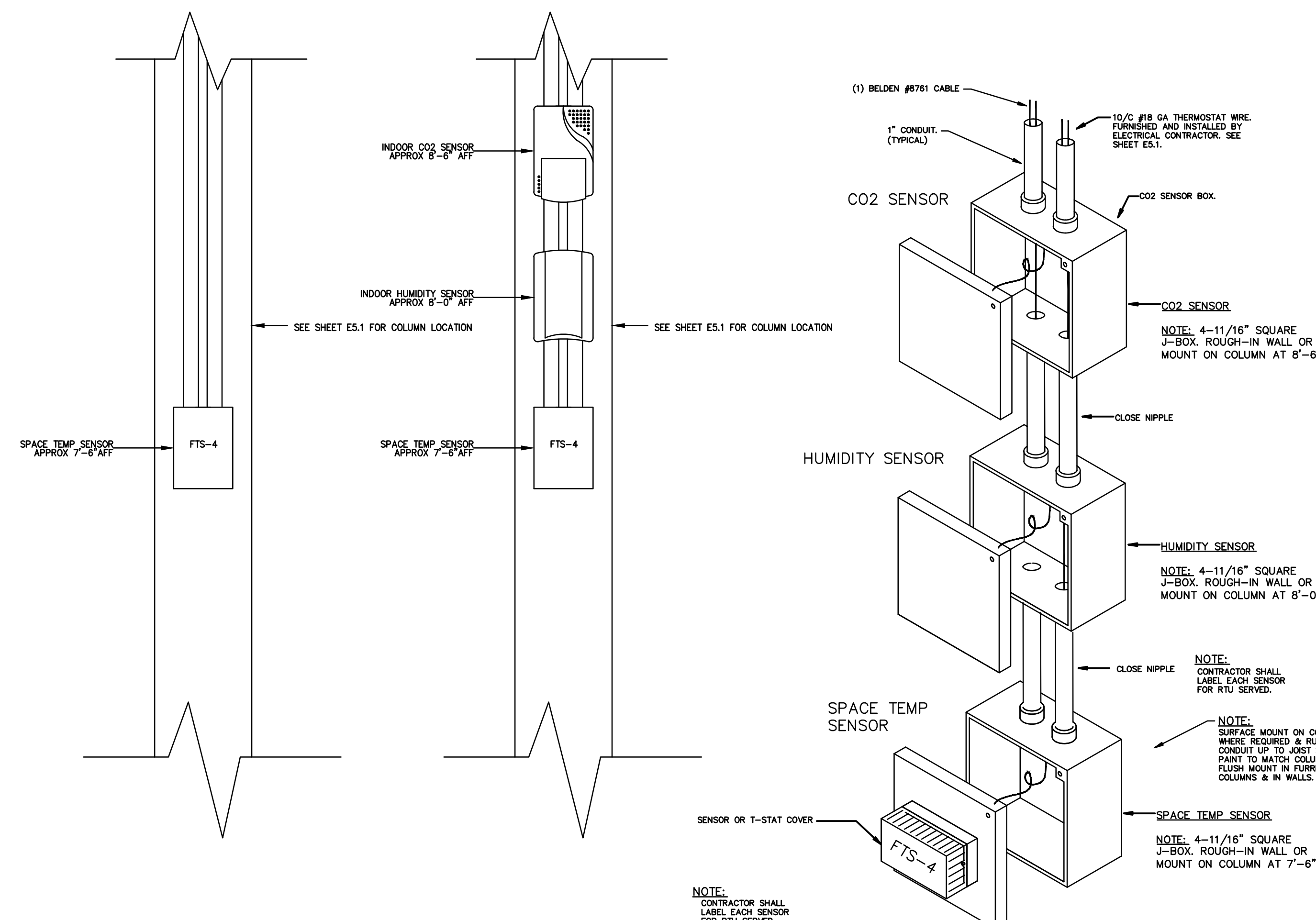
5 RECEIVING TABLE LAYOUT  
E3.1 N.T.S.



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



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



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.

SPACE TEMP SENSOR,  
HUMIDITY SENSOR, AND  
CO2 SENSOR DETAIL

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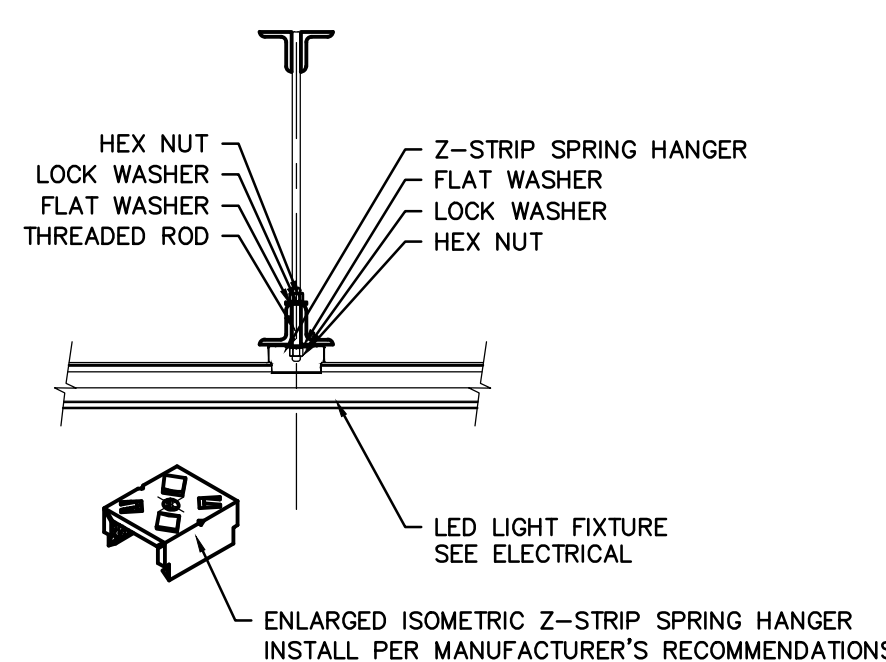
ELEC SYSTEM/VENDOR DETAILS

Sheet Number: E3.1

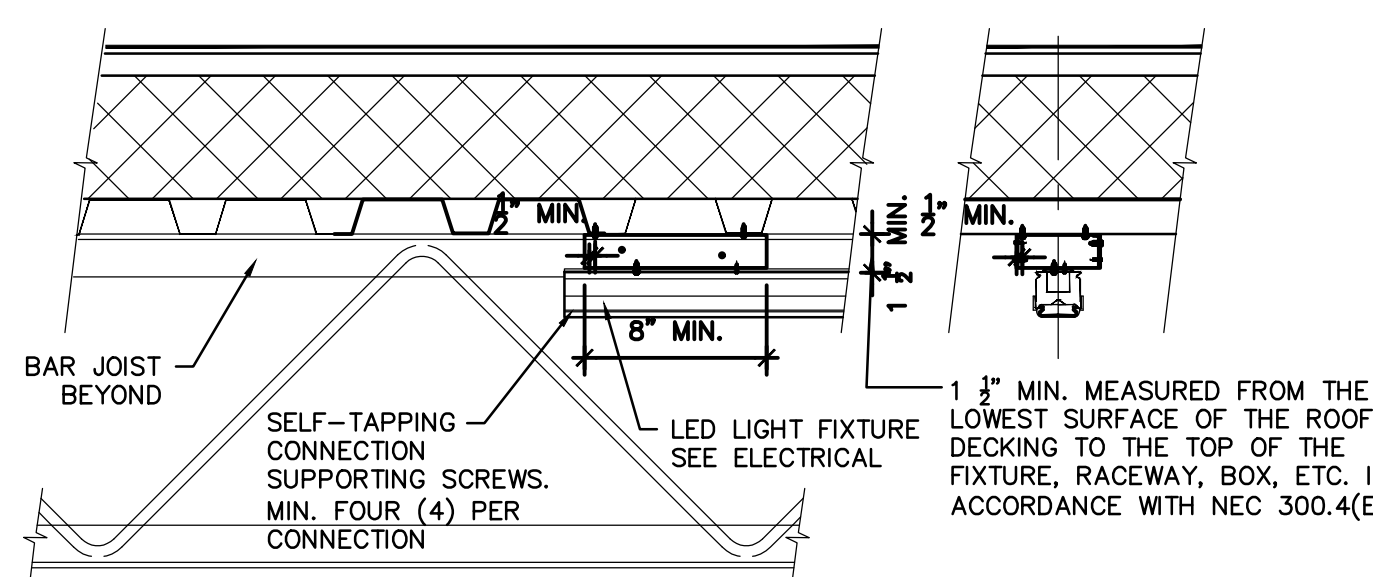


- DETAIL NOTES: (11/18/00 ONLY)**
1. CONDUIT FROM BUILDING TO DISPENSING SYSTEM SHALL BE ROUTED MINIMUM 24" BELOW GRADE PER NEC ARTICLE 514.8.
2. ALL EQUIPMENT LOCATED WITHIN FIVE FEET OF TANK SHALL BE RATED FOR USE IN CLASS 1, DIVISION 2 HAZARDOUS LOCATIONS.
3. ALL EQUIPMENT LOCATED BETWEEN FIVE FEET OF TANK AND 20 FEET OF TANK SHALL BE RATED FOR USE IN CLASS 1, DIVISION 2 HAZARDOUS LOCATIONS.
4. ALL CONDUIT SHALL BE RGS. NO WC OR BLACK RIG PERMITTED. ALL FITTINGS ON RGS CONDUITS SHALL BE THREADED.
5. CONDUIT SEALS SHALL BE INSTALLED ON ALL CONDUITS THAT PASS INTO OR OUT OF CLASS 1, DIVISION 2 HAZARDOUS BOUNDARIES WITHIN TEN FEET AFTER PENETRATION ABOVE GRADE ON EACH END OF CONDUIT.
6. DISPOSE AND INSTALL (1) DISPOSONF FORM JUNCTION BOX AS THE FOLLOWING: JUNCTION BOX TO BE COOPER COOPER MINIS MODEL # QUANZ. INSTALL SUCH THAT BOX IS IN A VERTICAL POSITION SO THAT THE TOP OF THE BOX IS 4'-0" TO 4'-6" ABOVE THE GRADE. AND REQUIREMENTS WITH PROPRAGE DISPENSING VENDOR PRIOR TO ROUTING-IN CONDUIT TO CONDUIT ENTRIES WITH PROPRAGE DISPENSING VENDOR PRIOR TO ORDERING.
7. REFERENCE SHEET A-1 FOR EXACT LOCATION OF CONDUIT STEP-UP AT DISPOSONF FORM.

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

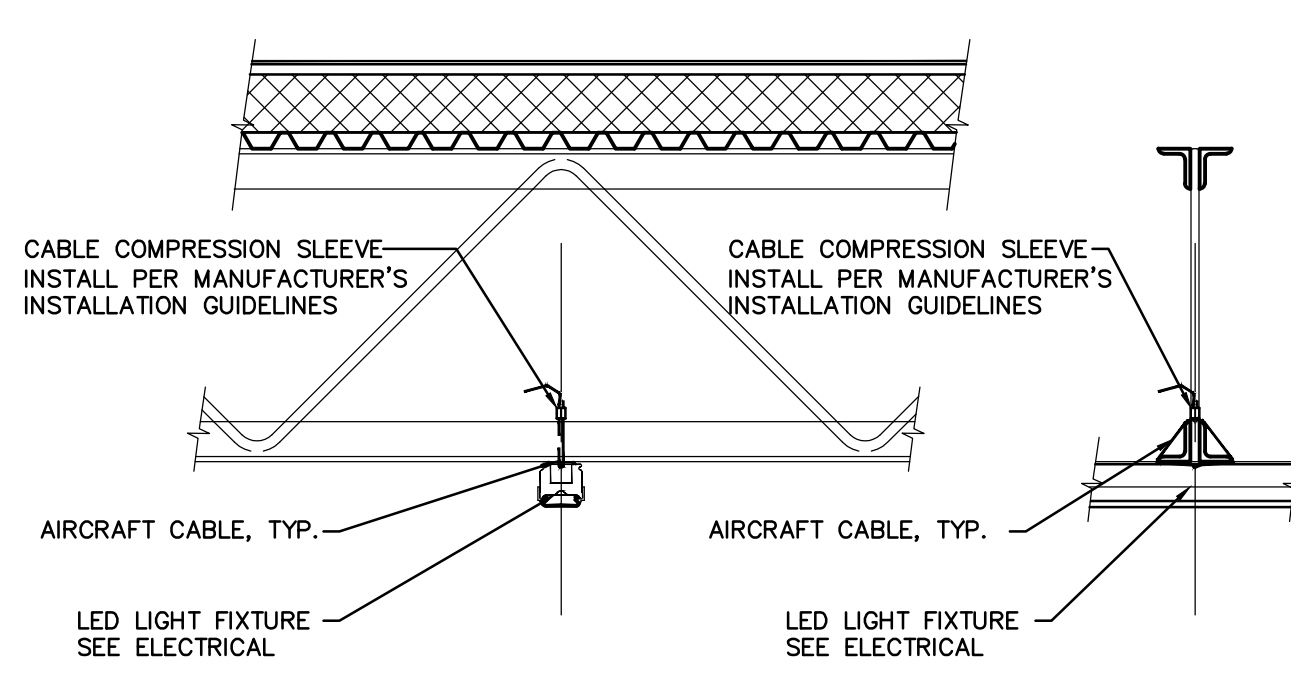


6 Z-STRIP SPRING HANGER  
E3.2 N.T.S.



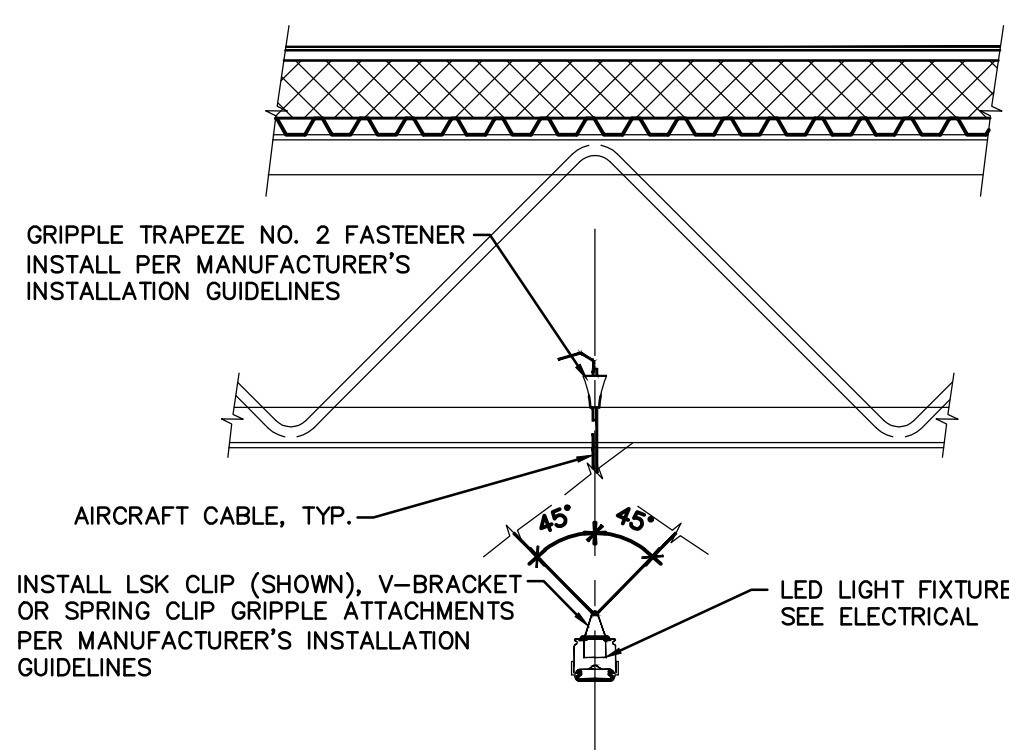
NOTE: SECURE PER LIGHT MANUFACTURER'S INSTALLATION GUIDELINES

7 DECK ATTACHMENT DETAIL  
E3.2 N.T.S.



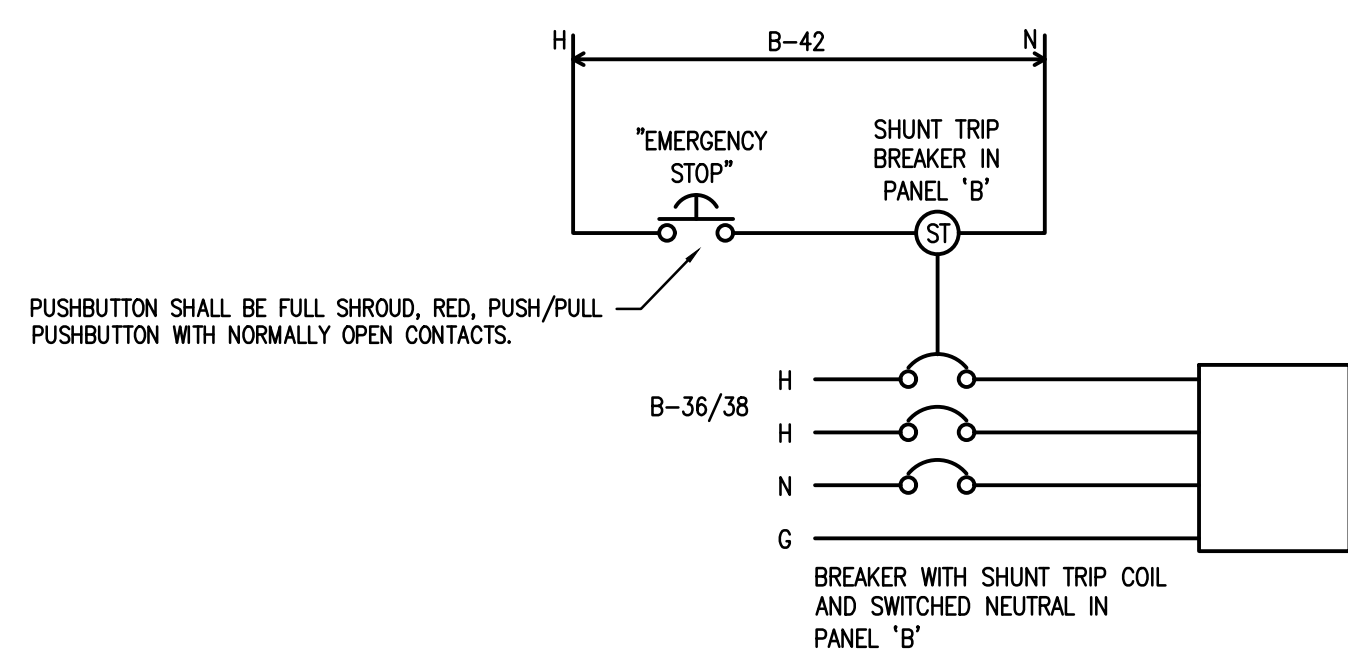
NOTE: SECURE PER LIGHT MANUFACTURER'S INSTALLATION GUIDELINES. FOR CONTINUOUS ROW MOUNTING, UTILIZE END PLATE COUPLER PER LIGHT MANUFACTURER'S INSTALLATION GUIDELINES.

8 ALTERNATE ATTACHMENT DTL  
E3.2 N.T.S.

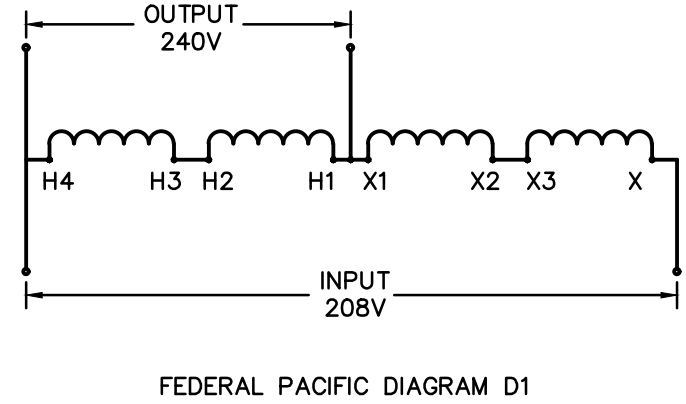


NOTE: EACH CONTINUOUS ROW OF LIGHT FIXTURES SHALL HAVE ONE VERTICAL SUPPORT AND ONE SET OF DIAGONAL SUPPORTS LOCATED 6" - 12" FROM EACH END OF THE ROW. EACH ROW OF CONTINUOUS ROWS SHALL HAVE A MINIMUM OF (1) ONE SUPPORT WHERE APPLICABLE DIAGONAL SUPPORTS SHALL BE LOCATED AT NO GREATER THAN 12"-0" APART. ANY LIGHT FIXTURE WHICH IS INDEPENDENTLY SUPPORTED SHALL HAVE A MINIMUM OF (2) SUPPORTS WITH EACH SUPPORT LOCATED 6" FROM THE END OF THE FIXTURE. NON-CABLE OR FIXTURES MOUNTED DIRECTLY TO THE BOTTOM OF THE SUPPORTING STRUCTURE DO NOT REQUIRE DIAGONAL SUPPORT. AIRCRAFT CABLE IS ALLOWED; NO CHAIN.

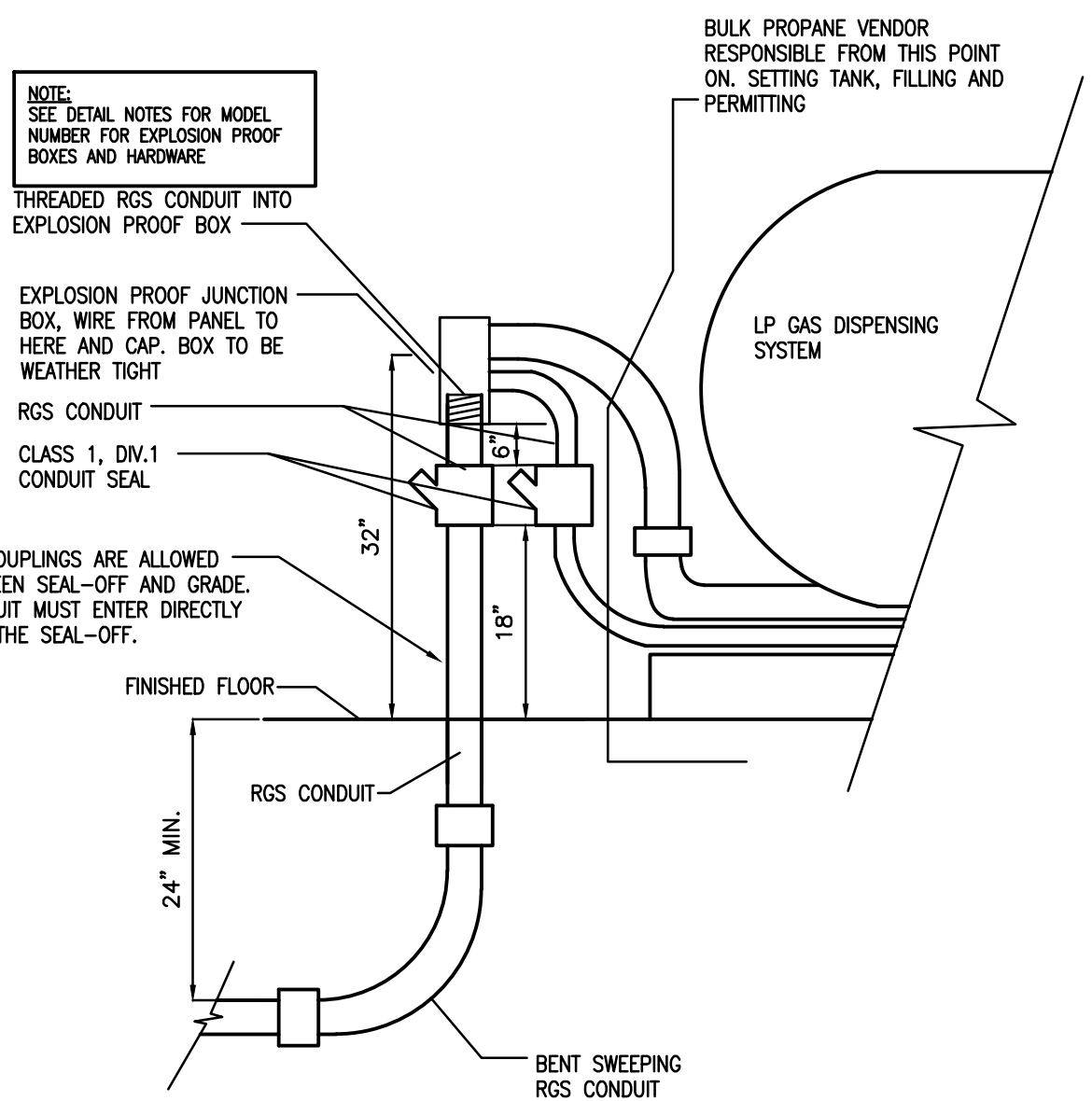
9 ALTERNATE ATTACHMENT DTL  
F32 NTS



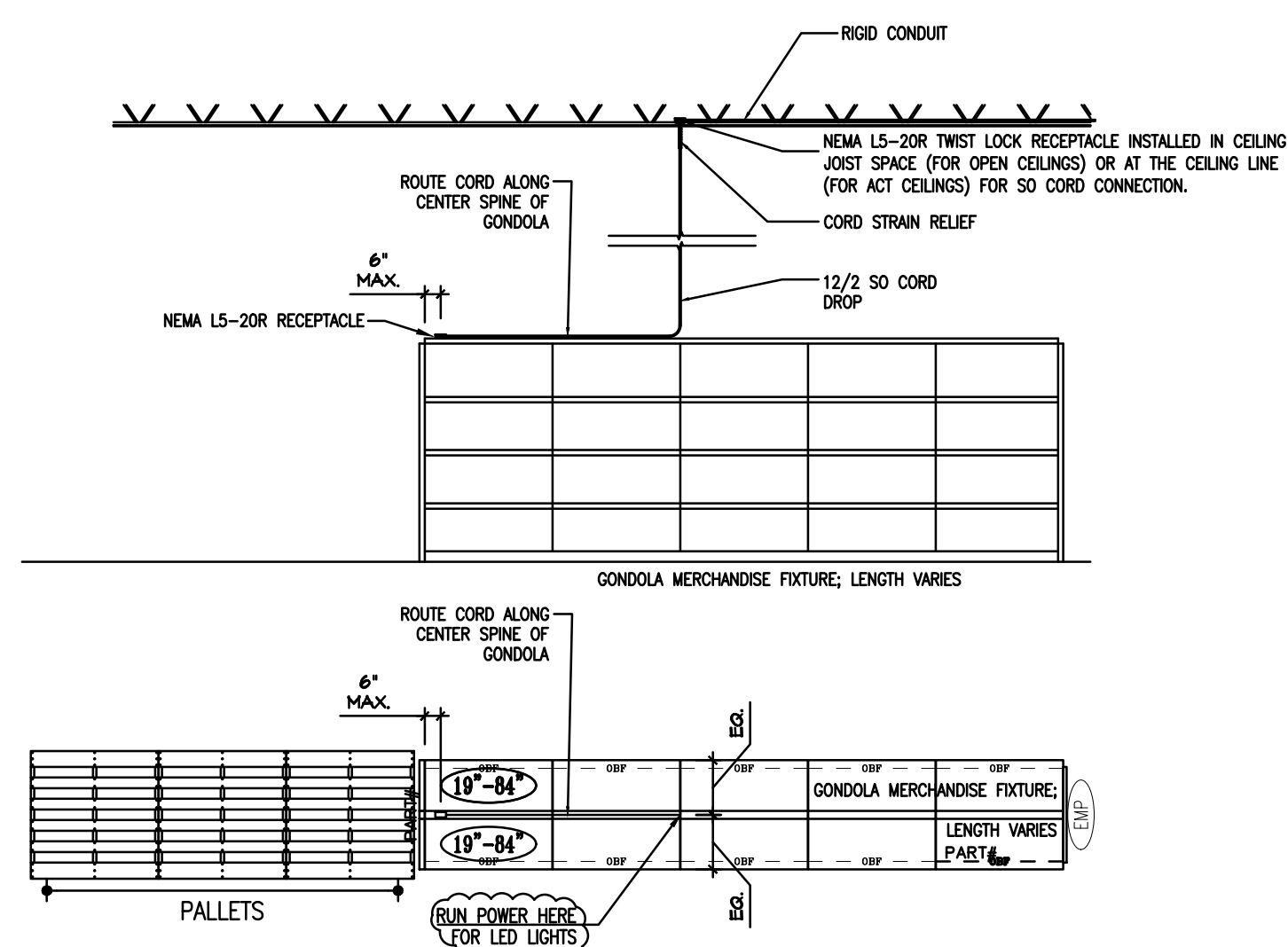
1 PROPANE DISPENSING SYSTEM CONTROL DIAGRAM  
E3.2 N.T.S.



## PROPANE DISPENSING SYSTEM BUCK-BOOST TRANSFORMER WIRING DIAGRAM

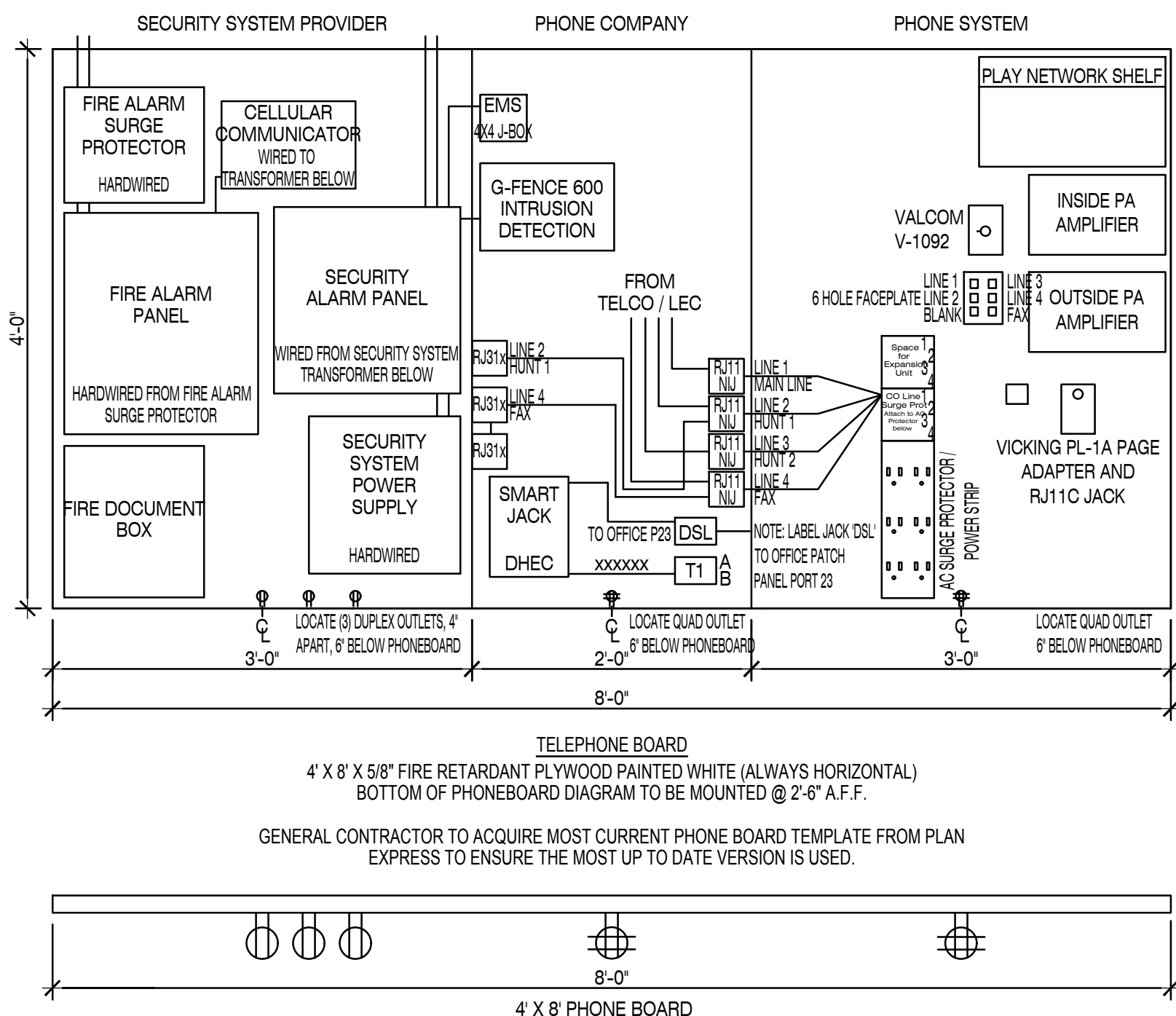


5 ENLARGED DETAIL  
F3.2 N.T.S.



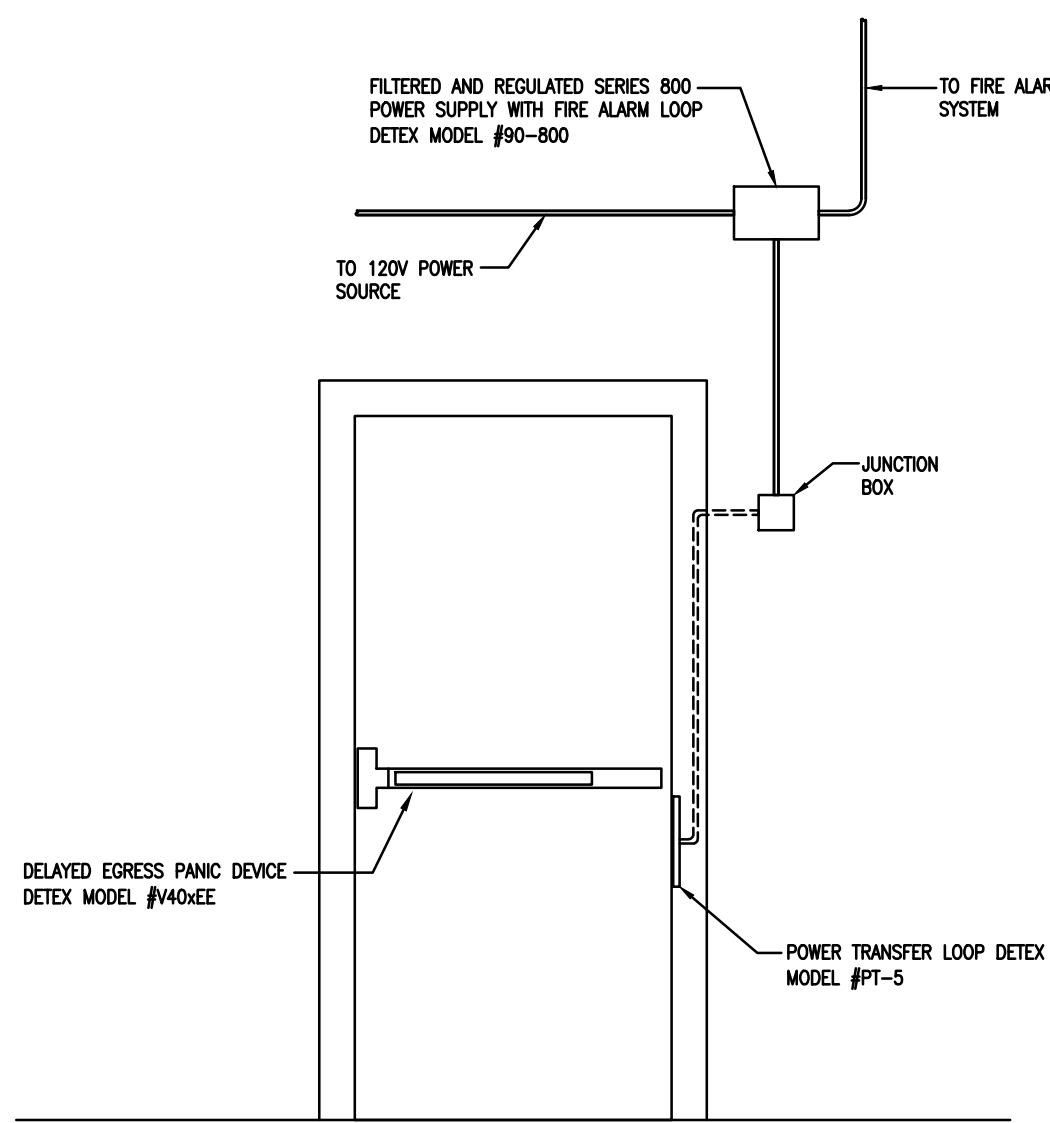
ALL CABLE DROPS TO BE IN LINE AND PLUMB.  
GC MAY ROUGH-IN BUT DO NOT HARD DROP  
UNTIL ALL FIXTURES ARE IN PLACE.

**10 ELECTRICAL DROP DETAIL**  
E3.2 NO SCALE



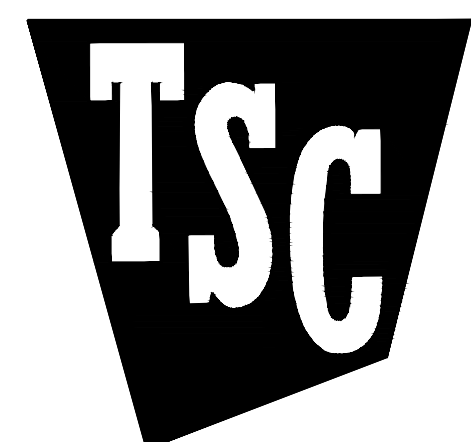
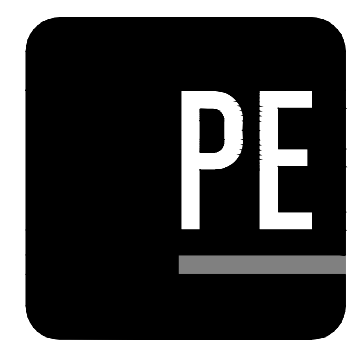
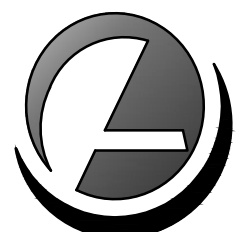
SEE SHEET A1.0 / A5.0 FOR  
PROPER LOCATIONS

11 TELEPHONE BOARD DETAIL  
E3.2 NO SCALE



- DETAIL NOTES: (7/E1B.0 ONLY)

12 DETEX EXIT DEVICE DETAIL  
E3.2 NO SCALE











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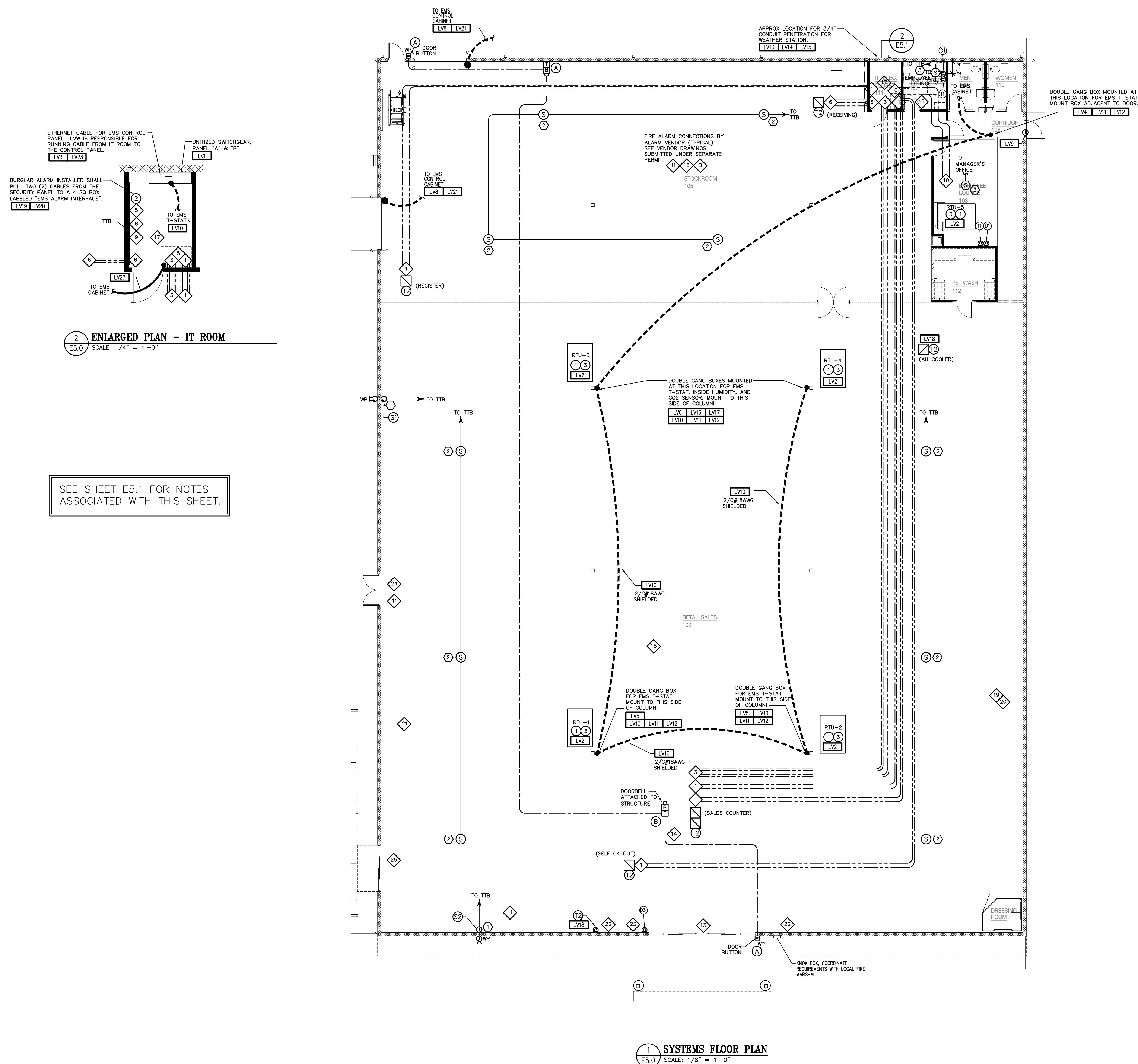
Revisions:

## SYSTEMS FLOOR PLAN

Sheet Number: **E5.0**

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## E5.0



Project: 25012 Drawing: 25012-E5.0.dwg





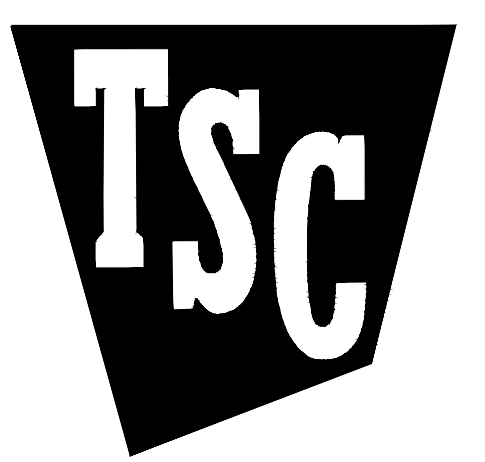
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SYSTEMS PLAN NOTES

Sheet Number:

E5.1

TSC LWV CONTROL WIRING AND EMS PREMIRE:

ALL LOW VOLTAGE WIRING (LWV) (EXCEPT FOR TEMPORARY AND PERMANENT THERMOSTATS FOR HVAC) IS 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 WHITE (unless noted). The vendor that 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 joist 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 1/2" 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 operable 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 1/2" 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 forces 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-S) 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-SHIELDED 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-SHIELDED 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-SHIELDED 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 "OA TEMP".

LV14 LWV vendor shall install a total of (1) 18/10 NON-SHIELDED 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 "OA HUMID".

LV15 LWV vendor shall install a total of (1) 18/10 NON-SHIELDED 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-SHIELDED 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-SHIELDED 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-SHIELDED plenum cable in 1/2" conduit. 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-SHIELDED 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-SHIELDED 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 cabinet requirement 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-SHIELDED 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:

- TSC SHALL FURNISH & INSTALL THE PUBLIC ADDRESS SYSTEM
- LWV VENDOR SHALL PROVIDE ALL SPEAKER WIRING. SPEAKER WIRING SHALL BE 18AWG / 2 CONDUCTOR WITH WHITE JACKETS.
- ALL CABLES ROUTED EXPOSED IN CEILING JOIST SHALL BE RUN PERPENDICULAR AND PARALLEL TO THE CEILING JOIST ORIGINATING FROM TELEPHONE BOARD.
- 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.
- LWV VENDOR SHALL BE RESPONSIBLE FOR DETERMINING IF CABLES SHALL BE PLENUM RATED TO MEET CODES.

PUBLIC ADDRESS SPEAKER CABLE: (S1) (S2)

- 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.
- PROVIDE JUNCTION BOX AND CONDUIT (1" EMT) FROM EXTERIOR SPEAKER TO THE RETAIL SALES INTERIOR WALL.

KEYED NOTES:

- 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.
- 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.
- 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:

- 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.
  - ALL CABLES ROUTED EXPOSED IN CEILING JOIST SHALL BE RUN PERPENDICULAR AND PARALLEL TO THE CEILING JOIST.
  - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF CABLES SHALL BE PLENUM RATED TO MEET CODES.
- KEYED NOTES:
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EDWARDS 55-405 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.
  - EDWARDS 55-405 DOOR BELL @ CASH REGISTER & CONNECT TO SYSTEM AS NECESSARY. COORDINATE WITH G.C. 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
- (WP) 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:

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

DATA SYSTEM:

GENERAL NOTES:

- 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.
- LWV VENDOR SHALL PROVIDE ALL DATA AND TELEPHONE WIRING WITH WHITE JACKETS. ALL PHONE AND DATA CABLE MUST BE CAT5 CERTIFIED, NO EXCEPTIONS.
- ALL CABLES ROUTED EXPOSED IN CEILING JOIST SHALL BE RUN PERPENDICULAR AND PARALLEL TO THE CEILING JOIST.
- LWV VENDOR SHALL BE RESPONSIBLE FOR DETERMINING IF CABLES SHALL BE PLENUM RATED TO MEET CODES.
- ROUTE CAT5E 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: (T1) (T2)
- 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: (D1) (D2) (D3)
- 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:

- LWV VENDOR SHALL ROUTE TWO CAT5E 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 'REG3A' AND 'REG3B' FOR REGISTER ONE AND 'REG2A' AND 'REG2B' FOR REGISTER 2. LABEL ADDITIONAL REGISTER CABLES 'REG3A' AND 'REG3B', ETC. AS REQUIRED FOR ADDITIONAL REGISTERS.
- NOTE NOT USED.
- LWV VENDOR SHALL ROUTE FOUR CAT5E 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', 'SDB', 'SDC', 'SDD'. NOTE NOT USED.
- LWV VENDOR SHALL ROUTE CAT5E 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.
- LWV VENDOR SHALL ROUTE THREE CAT5E 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 'RDA', 'RDB', 'RDC'. NOTE NOT USED.
- LWV VENDOR SHALL ROUTE THREE CAT5E 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'.
- LWV VENDOR SHALL ROUTE THREE CAT5E 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'.
- LWV VENDOR SHALL ROUTE TWO CAT5E CABLES FROM THE BREAKROOM AT 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'.
- LWV SHALL ROUTE SIX CAT5E 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.
- NOTE NOT USED.
- LWV VENDOR SHALL ROUTE CAT5E 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.
- LWV VENDOR SHALL ROUTE CAT5E 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.
- LWV VENDOR SHALL ROUTE CAT5E 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.
- LWV VENDOR SHALL ROUTE CAT5E 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.
- LWV VENDOR SHALL ROUTE CAT5E 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.
- LWV VENDOR SHALL ROUTE CAT5E 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.
- LWV VENDOR SHALL ROUTE CAT5E 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 CAM8.
- 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 PWM1.
- LWV VENDOR SHALL ROUTE CAT5E 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.
- LWV VENDOR SHALL ROUTE CAT5E 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.
- LWV VENDOR SHALL ROUTE CAT5E 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.
- LWV VENDOR SHALL ROUTE CAT5E 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.
- LWV VENDOR SHALL ROUTE CAT5E 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:

- ALL ROOFTOP EQUIPMENT CONNECTIONS SHALL BE MADE THROUGH THE UNIT ROOF CURB. ROOF PENETRATIONS ARE NOT ACCEPTABLE.
- FIRE ALARM CONTROL PANEL TO BE MOUNTED ON TELEPHONE BOARD. REFERENCE DETAIL 1/E4.0. CONNECT TO DEDICATED 120 VOLT POWER CIRCUIT.
- 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

PROTOTYPES	BY WHO	WHEN	SPECIAL NOTES
ACTION	TSC/REAL ESTATE	1ST MONDAY OF EACH MONTH	
STONE ADDED TO SOS	JCI/ADT	WITHIN 30 DAYS AFTER ADDED TO THE SOS	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
CODES AND BUILDING TYPE CONTACT TSC PM AS NECESSARY RESEARCHED, BA AND FA PLANS COMPLETED	JCI/ADT	ON 30TH DAY AFTER ADDED TO SOS	
SECURITY SYSTEMS CONTRACTOR COMPLETES PLANS SENDS TO RICH WOOD	JCI/ADT		
AND TSC PM	TSC PM	31 DAYS	
PLANS FORWARDED TO LL AND/OR HIS ARCHITECT IF KNOWN	TSC PM		
TSC TO REVIEW LL PLANS FOR ACCURACY	TSC PM	WHEN SENT BY LL PRIOR TO CONSTRUCTION START	
LL TO COMPLETE ALL LWV SOW 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 TERNATIONS	JCI/ADT	STARTING APPROXIMATELY 3 WEEKS FROM PD TO BE DONE LAST AS LWV VENDOR COMPLETES NO LATER THAN 2 WEEKS PRIOR TO PD.	
INSTALLATION OF PA SYSTEM, PHONE SYSTEM, SPEAKERS, OUTSIDE HORNS, PHONES, PATCH PANEL, 4PS W/ ANTENNAS	STAN KOLIC / MERCURY TECH	MONDAY AND TUESDAY BEFORE PD	
INSTALLATION OF POS SYSTEMS AT ALL LOCATIONS AND TESTING OF AP SYSTEM	STAN KOLIC / AGILYSIS	TUESDAY BEFORE PD	

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