

FRUITLAND PARK PUBLIC WORKS

PROPERTY OWNER:

CITY OF FRUITLAND PARK
506 W BERCKMAN ST.
FRUITLAND PARK, FLORIDA 34731
PH: (352) 360-6727

ARCHITECT:

GATORSKETCH ARCHITECTS, INC
1000 E. HIGHWAY 50, SUITE 201A
CLERMONT, FLORIDA 34711
PH: (407) 608-5677

STRUCTURAL ENGINEER:

TLC ENGINEERING SOLUTIONS
7370 CABOT CT. STE. 103
MELBOURNE, FL. 32940
PH: (321) 636 - 0274

MEP ENGINEER:

SGM ENGINEERING GROUP, LLC
935 LAKE BALDWIN LANE
ORLANDO, FLORIDA 32814
PH: (407) 767-5188

ABBREVIATIONS:	SHEET	ARCHITECTURAL DRAWING	SHEET	STRUCTURAL DRAWING	SHEET	FIRE PROTECTION DRAWING
A.B. ANCHOR BOLT	CS1	COVER SHEET	S000	ABBREVIATIONS & SYMBOLS	F001	FIRE PROTECTION SYMBOLS LEGEND
ABV. ABOVE	CS2	CODE DATA & WALL TYPES	S001	STRUCTURAL GENERAL NOTES	F201	FIRE PROTECTION FLOOR PLAN
A/C AIR CONDITIONER	LS101	LIFE SAFETY PLAN	S002	STRUCTURAL GENERAL NOTES	F801	FIRE PROTECTION DETAILS
ACT ACOUSTIC CEILING TILE	A001	ARCHITECTURAL SITE PLAN	S003	COMPONENTS & CLADDING WIND LOAD DIAGRAMS		
ADJ. ADJUSTABLE	A101	FLOOR PLAN	S100	SITE PLAN	SHEET	MECHANICAL DRAWING
A.F.F. ABOVE FINISH FLOOR	A201	EXTERIOR ELEVATIONS	S101	FOUNDATION & SLAB ON GRADE PLAN	M001	MECHANICAL SYMBOLS LEGEND
A.H.U. AIR HANDLER UNIT	A301	FLOOR FINISH PLAN	S102	ROOF FRAMING PLAN	M002	MECHANICAL GENERAL NOTES
BM. BEAM	A302	ROOM FINISH & EQUIPMENT SCHEDULES	S300	SECTIONS	M201	MECHANICAL FLOOR PLAN
BOT. BOTTOM	A311	EQUIPMENT PLAN	S301	SECTIONS	M401	MECHANICAL ENLARGED PLANS
CLG. CEILING	A312	INTERIOR PAINT PLAN	S500	TYPICAL STRUCTURAL CONCRETE DETAILS	M601	MECHANICAL CONTROL DRAWINGS
CJ CONTROL JOINT	A401	REFLECTED CEILING PLAN	S501	TYPICAL STRUCTURAL CONCRETE DETAILS	M701	MECHANICAL SCHEDULES
CMU CONCRETE MASONRY UNIT	A501	ROOF PLAN & DETAILS	S502	TYPICAL STRUCTURAL MASONRY DETAILS	M801	MECHANICAL DETAILS
COL. COLUMN	A601	ENLARGED TOILET ROOM PLANS / DETAILS	S500	TYPICAL STRUCTURAL STEEL DETAILS		
COMP. A/C COMPRESSOR	A602	INTERIOR ELEVATIONS			SHEET	ELECTRICAL DRAWING
CPT. CARPET	A701	BUILDING SECTIONS			E001	ELECTRICAL SYMBOLS LEGEND
C.T. CERAMIC TILE	A710	WALL SECTIONS			E101	ELECTRICAL SITE PLAN
DIA. DIAMETER	A801	DOOR / WINDOW SCHEDULES	P001	PLUMBING SYMBOLS LEGEND	E201	LIGHTING PLAN
DISP. DISPOSAL	A802	DOOR / WINDOW / MISC. DETAILS	P201	PLUMBING GRAVITY FLOOR PLAN	E301	POWER PLAN
E.J. EXPANSION JOINT			P301	PLUMBING PRESSURE FLOOR PLAN	E401	SYSTEMS PLAN
ELEC. ELECTRICAL			P501	PLUMBING RISER DIAGRAMS	E501	ELECTRICAL ONE LINE DIAGRAM
ELEV. ELEVATION			P502	PLUMBING RISER DIAGRAMS	E601	FIRE ALARM DETAILS
E.W. EACH WAY			P801	PLUMBING DETAILS	E701	ELECTRICAL PANEL SCHEDULES
EXT. EXTERIOR					E801	ELECTRICAL DETAILS
FBC FLORIDA BUILDING CODE						
F.F. FINISHED FLOOR						
F.G. FIXED GLASS						
FLR. FLOOR						
FT. FOOT / FEET						
FX FIXED						
GALV. GALVANIZED						
G.C. GENERAL CONTRACTOR						
GFI GROUND FAULT INTERRUPTER						
GYP. GYPSUM BOARD						
HGT HEIGHT						
LWIC LIGHT WEIGHT INSUL. CONC.						
LVT LUXURY VINYL TILE						
MFRG MANUFACTURER						
MIN. MINIMUM						
MIR. MIRROR						
N.I.C. NOT IN CONTRACT						
N.T.S. NOT TO SCALE						
OPNG OPENING						
PED. PEDESTAL						
PSF POUNDS PER SQUARE FOOT						
PTD PAINTED						
RAD RADIUS						
REQ'D REQUIRED						
R.O. ROUGH OPENING						
R.T.U. ROOF TOP UNIT						
RND ROUND						
S.F. SQUARE FOOT (FEET)						
SPM SINGLE PLY MEMBRANE						
S.S. STAINLESS STEEL						
TEMP. TEMPERED						
T.O.B. TOP OF BLOCK						
T.O.M. TOP OF MASONRY						
TYP. TYPICAL						
U.N.O. UNLESS NOTIFIED OTHERWISE						
VCT. VINYL COMPOSITION TILE						
VERT. VERTICAL						
VTR VENT THROUGH ROOF						
W/ WITH						
W/C WATER CLOSET						
WP WATER PROOF						

AERIAL LOCATION MAP:



ARCHITECTURAL NOTES

- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CITY, STATE AND FEDERAL CODES AND STANDARDS.
- PRIOR TO BIDDING THE PROJECT, THE CONTRACTOR SHALL REVIEW THE DOCUMENTS, VISIT THE SITE, INVESTIGATE EXISTING CONDITIONS AND NOTIFY THE ARCHITECT IN WRITING OF DRAWING DISCREPANCIES OR SITE CONDITIONS IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS, OR OTHERWISE AFFECTING THE WORK.
- THE CONTRACTOR SHALL MAINTAIN SAFE MEANS OF EGRESS AND FIRE ACCESS AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS AND SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKERS, OCCUPANTS AND ALL OTHER PERSONS DURING CONSTRUCTION. MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO CONSTRUCTION FENCING, STRUCTURAL BRACING, SHORING OF EARTHWORKS AND SCAFFOLDS, SAFETY NETS, BRACING AND SUPPORTS FOR CRANES AND GIN POLES.
- ALL AREAS OUTSIDE THE PROJECT BOUNDARIES SHALL BE PROTECTED TO INSURE THEY REMAIN INTACT DURING CONSTRUCTION. ITEMS OUTSIDE THE BOUNDARIES WHICH ARE DISTURBED, DAMAGED OR SOILED DUE TO THE ACTS OF THE CONTRACTOR OR SUBCONTRACTORS SHALL BE CLEANED, REPAIRED OR REPLACED TO THEIR PREVIOUS CONDITION, AS DETERMINED BY THE OWNER.
- ALL COMPLETED WORK SHALL BE PROTECTED UNTIL FINAL COMPLETION. DAMAGED WORK SHALL BE CORRECTED AT NO COST TO THE OWNER.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE WITH ONE ANOTHER TO RESOLVE ALL CONFLICTS IN THE PLACEMENT OF THE COMPONENTS OF THEIR RESPECTIVE TRADES.
- THE CONTRACTOR SHALL THOROUGHLY READ THE CONSTRUCTION DOCUMENTS AND UNDERSTAND ALL DRAWINGS, SPECIFICATIONS, NOTES AND DETAILS BEFORE COMMENCING WORK. IF AT ANY TIME QUESTIONS ARISE ABOUT THE INTENT OF THE DOCUMENTS, DO NOT PROCEED IN THE AREA OF CONCERN UNTIL THE ARCHITECT OF RECORD HAS BEEN NOTIFIED AND HAS ISSUED CLARIFICATION.
- SPlicing, CUTTING, NOTCHING OR OTHER ALTERATIONS TO STRUCTURAL MEMBERS ARE NOT PERMITTED WITHOUT THE WRITTEN AUTHORIZATION OF THE STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL PROVIDE WRITTEN REQUEST TO THE ARCHITECT / ENGINEER OF RECORD FOR PRIOR APPROVAL OF DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS. ALL UNAUTHORIZED DEVIATIONS FROM THE DOCUMENTS AND THE CORRECTION THEREOF SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE INTENT OF THE CONSTRUCTION DOCUMENTS IS FOR THE CONTRACTOR TO PROVIDE ALL ITEMS REQUIRED FOR COMPLETE SYSTEMS WHETHER DETAILED OR NOT. PROVIDE ALL ESCUTCHEON PLATES, FINISH PLATES, TRIM PIECES, ETC... REQUIRED TO PROVIDE COMPLETE AND FINISHED WORK, AS DETERMINED BY THE ARCHITECT.
- WHERE DETAILED DRAWINGS ARE NOT PROVIDED, UTILIZE THE MANUFACTURER'S RECOMMENDED INSTALLATION DETAILS & SHOP DRAWINGS.

- IN THE CASE OF CONFLICT BETWEEN SPECIFICATIONS, STANDARDS, CODES AND DRAWINGS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ARCHITECT OF RECORD.
- DRAWING PLANS, ELEVATIONS, SECTIONS AND DETAILS ARE NOT TO BE SCALED.
- DIMENSIONS AND DETAILS ON LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
- DIMENSIONS ARE TO FACE OF MASONRY WALLS AND TO FACE OF FINISH ON STUD WALLS, UNLESS NOTED OTHERWISE.
- ANGLED CONDITIONS ARE 45 DEGREES UNLESS NOTED OTHERWISE.
- THE HINGE SIDE OF DOOR OPENINGS SHALL BE LOCATED 4" FROM THE FACE OF ADJACENT STUD WALLS AND 8" FROM THE FACE OF ADJACENT MASONRY WALLS, UNLESS NOTED OTHERWISE.
- ALL WOOD USED IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED. FASTENERS FOR TREATED WOOD (NAILS, BOLTS, HARDWARE, ETC...) SHALL BE GALVANIZED.
- CORROSION RESISTANT FLASHING SHALL BE INSTALLED TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR ONTO STRUCTURAL COMPONENTS. FLASHING SHALL EXTEND TO THE EXTERIOR SURFACE OF THE WALL FINISH TO PREVENT WATER FROM ENTERING THE BUILDING ENVELOPE. FLASHING IS REQUIRED AT THE TOPS OF WALL OPENINGS, AT MATERIAL TRANSITIONS, UNDER SILLS AND COPINGS, OVER WOOD TRIM AND LEDGERS AND AT WALL TO ROOF INTERSECTIONS.
- IN ORDER TO BE CONSIDERED WEATHER RESISTANT, EXTERIOR FINISHES MUST ACHIEVE THE MINIMUM APPROVED THICKNESS AS SET FORTH IN THE FLORIDA BUILDING CODE, LATEST EDITION.
- ALL EXPOSED, UNFINISHED BOXES, PIPES AND CONDUITS SHALL BE FINISHED TO MATCH THE ADJACENT SURFACES.
- EXTERIOR WINDOWS, DOORS, CLADDING, ROOF SYSTEM AND FLASHING SYSTEMS SHALL BE INSTALLED IN COMPLIANCE WITH THE STRUCTURAL WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE, LATEST EDITION.
- EXTERIOR ASSEMBLIES SHALL BE ANCHORED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS TO WITHSTAND THE CODE REQUIRED WIND LOADS.
- FOR EXTERIOR ASSEMBLIES, THE CONTRACTOR SHALL PROVIDE FLORIDA STATE WIDE PRODUCT APPROVAL CERTIFICATION TO THE LOCAL AUTHORITY HAVING JURISDICTION.

REVISIONS

FRUITLAND PARK PUBLIC WORKS
2601 SPRING LAKE ROAD
FRUITLAND PARK, FLORIDA, 34731

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CONSTRUCTION DOCUMENTS
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COVER SHEET
CS1
ISSUE DATE 7-12-22

GENERAL PROJECT DATA

Table with 2 columns: Item #, Description. Includes site construction, driveway, parking lots, sidewalk & fencing, and fruitland parks public works - new 8,400 SF, one story, pre-engineered metal building.

GOVERNING CODES:

Table listing governing codes: Florida Building Code 7th Edition, Florida Existing Building Code 7th Edition, Florida Energy Conservation 7th Edition, Florida Plumbing Code 7th Edition, Florida Mechanical Code 7th Edition, Florida Accessibility Code 7th Edition, Florida Fire Prevention Code, National Electric Code.

TABLE CS-3 BASIC BUILDING CODE INFORMATION

Table with 2 columns: Description, Value. Includes construction classification (IIB), occupancy group (B, S-1), and fire protection devices (fully automatic fire sprinkler system).

TABLE CS-4 BUILDING AREA

Table with 2 columns: Description, Value. Includes building area (8400 S.F.), total allowed stories (3), and total designed area of building (8400 S.F.).

TABLE CS-5 BUILDING HEIGHTS

Table with 2 columns: AS DESIGNED, ALLOWED BY FBC. Includes occupancy (F1 - Occupancy) and height increase details.

TABLE CS-6 BUILDING OCCUPANT LOAD

Table with 2 columns: A, B, C, D. Includes occupant load for various spaces like S1 - Repair Bays, S1 - Accessory Storage, and B - Business Office Areas.

TABLE CS-9 PLUMBING FBC T403.1 - 68 OCCUPANTS

Table with 2 columns: Fixture Type, Quantity. Lists fixtures like Water Closet, Lavatory, Drinking Fountain, and Service Sink with their respective requirements.

TABLE CS-7 GENERAL FIRE PROTECTION REQUIREMENTS

Table with 2 columns: Requirement, Status. Lists requirements for separations, alarm & detection, and suppression systems.

INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANTS (TABLE 803.11)

Table with 2 columns: Group, Finish. Lists finish requirements for Business B and Storage S.

INTERIOR FLOOR FINISH REQUIREMENTS BY OCCUPANTS (FBC 804.4.2)

The minimum Critical Flux shall be Class II, 0.22 watts/cm2 or greater and/or material complying with DOC FF-1 "pill test" (CPSC 16 CFR Part 1630 or ASTM D 2859)

TABLE CS-8 FIRE RESISTANCE RATING OF BUILDING ELEMENTS

Table with 2 columns: Building Element, Rating. Lists fire resistance ratings for structural frame, bearing walls, non-bearing walls, floor construction, roof construction, fire walls, shaft enclosures, fire partitions, and fire barriers.

Main table with 5 columns: Wall Type, Detail, Description, Fire Rating, Notes. Includes details for exterior and interior walls (M0-M4), interior studs (S0-S1), wet walls (S2-S3), and wall type notes.

WALL TYPE NOTES:

- A. REFER TO FLOOR PLAN FOR WALL/TYPED LOCATIONS & FIRE RATING
B. WALL TYPES TAGGED TO NAMED ROOMS SHALL REFER TO THE ENTIRE SPACE (U.N.O.)
C. REFER TO ROOM FINISH SCHEDULE FOR WALL/PARTITION FINISHES
D. ALL CMU WALL (U.N.O.)
E. ALL STUD/FURRED WALLS (U.N.O.)

Table with 2 columns: Revision #, Description. Includes revision 1: Update to drawings.

FRUITLAND PARK PUBLIC WORKS
2601 SPRING LAKE ROAD
FRUITLAND PARK, FLORIDA, 34731

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GatorSketch ARCHITECTS & PLANNERS logo and contact information.

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CODE DATA
CS2
ISSUE DATE 7-12-22




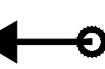
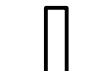

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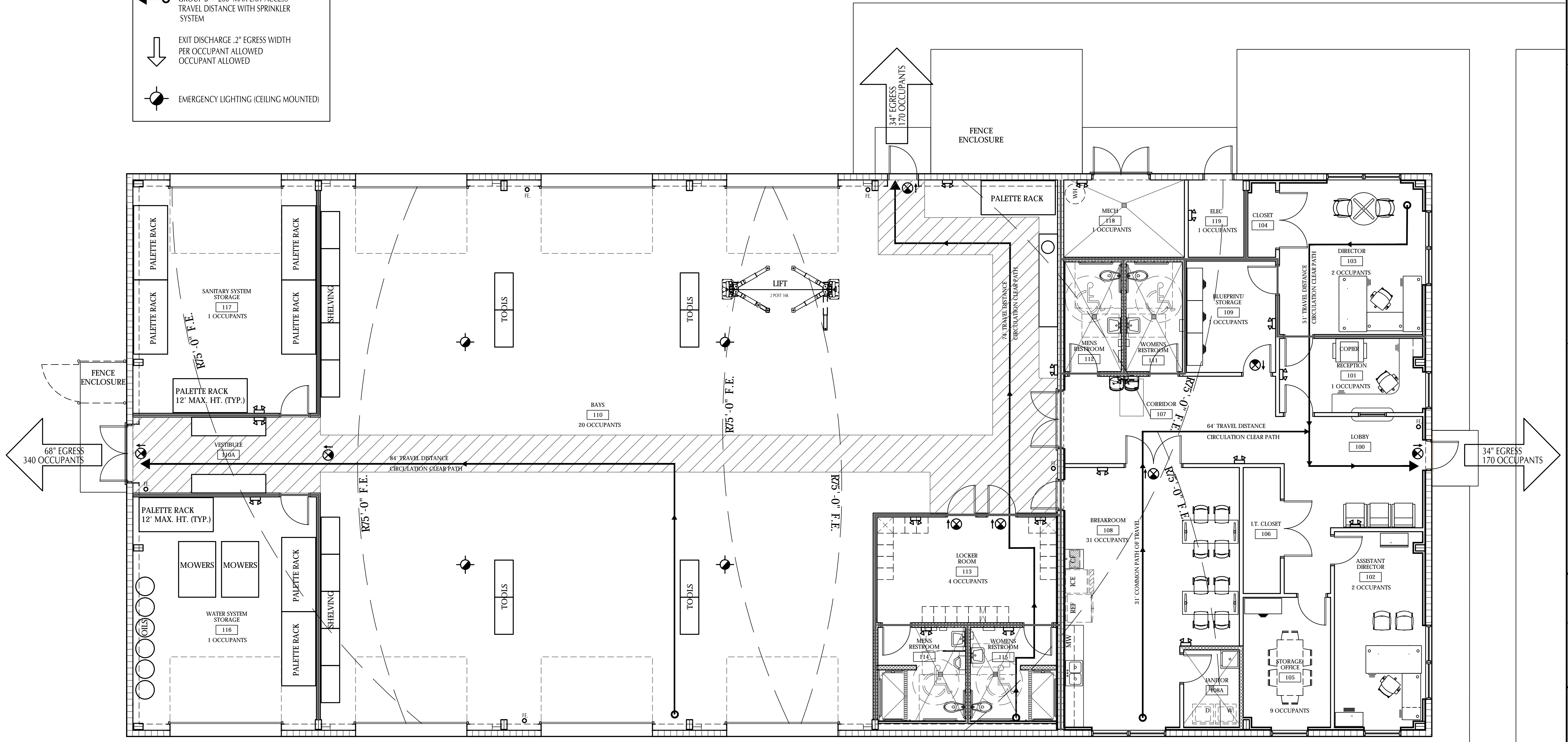
2

3

4

SYMBOL LEGEND

-  ILLUMINATED EXIT SIGN
-  3A-40BC PORTABLE FIRE EXTINGUISHER
(COORDINATE FINAL LOCATIONS WITH
FIRE MARSHAL/ FIRE SAFETY INSPECTOR)
-  EMERGENCY LIGHTING (WALL MOUNTED)
-  PATH OF EGRESS
GROUP B = 200' MAX EXIT ACCESS
TRAVEL DISTANCE WITH SPRINKLER
SYSTEM
-  EXIT DISCHARGE 2" EGRESS WIDTH
PER OCCUPANT ALLOWED
OCCUPANT ALLOWED
-  EMERGENCY LIGHTING (CEILING MOUNTED)



D

C

B

A

REVISIONS

**FRUITLAND PARK
PUBLIC WORKS**
2601 SPRING LAKE ROAD
FRUITLAND PARK, FLORIDA, 34731

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SIGN DATE

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**LIFE SAFETY
PLAN**
LS101
JOB #: GC-20-033
ISSUE DATE: 7-12-22

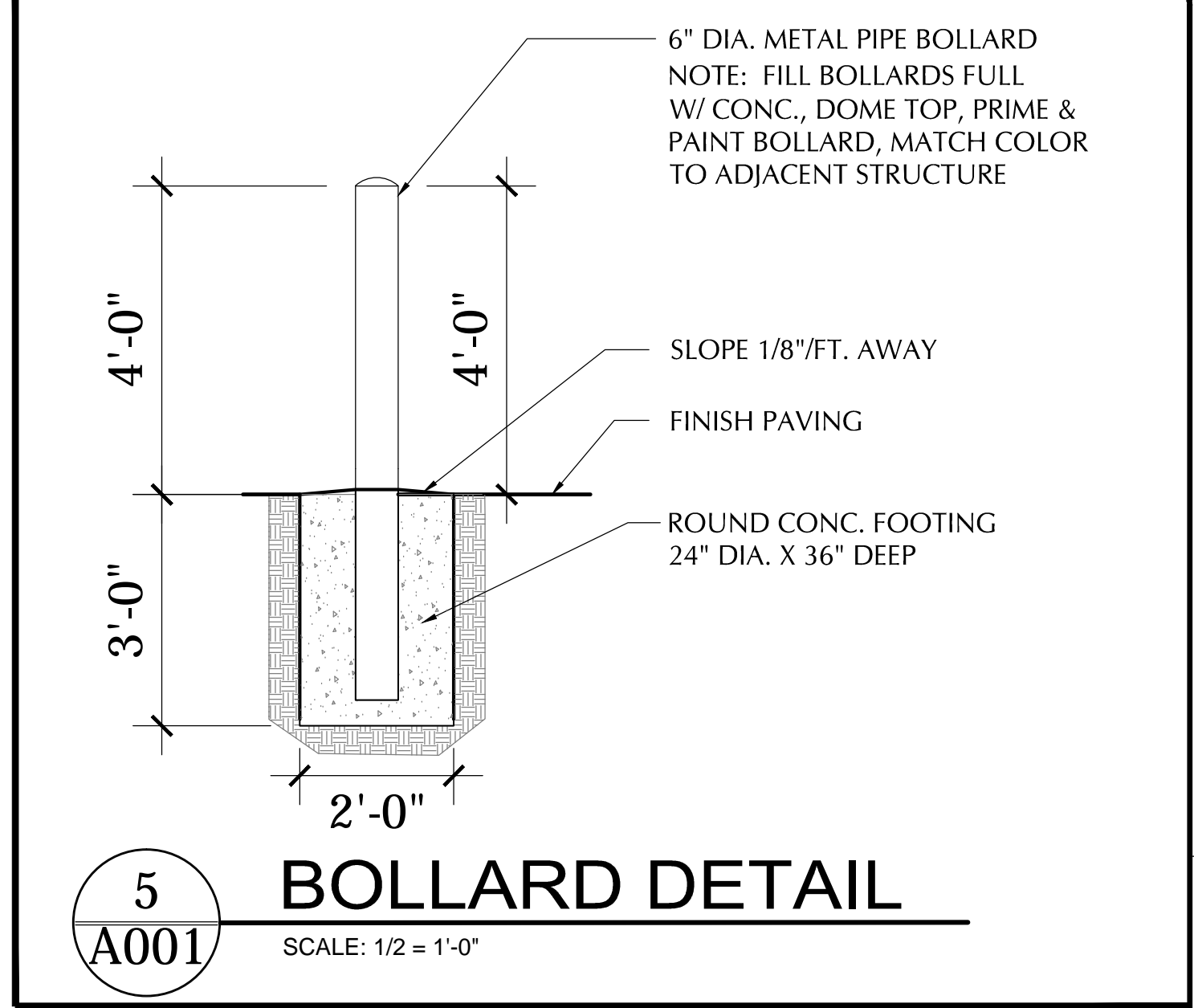
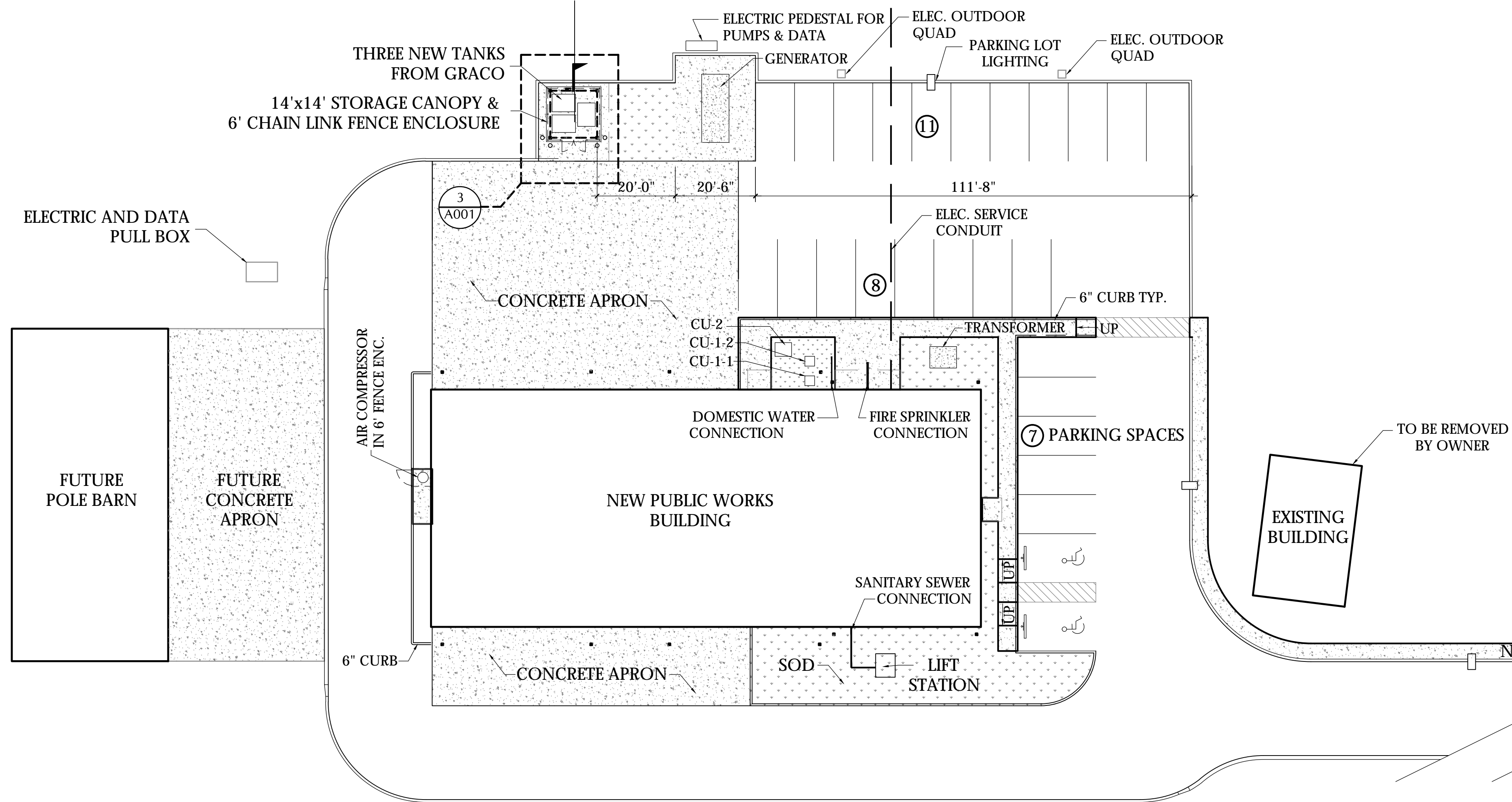
1 LIFE SAFETY PLAN
SCALE: 3/16" = 1'-0"
NORTH

1

2

3

4

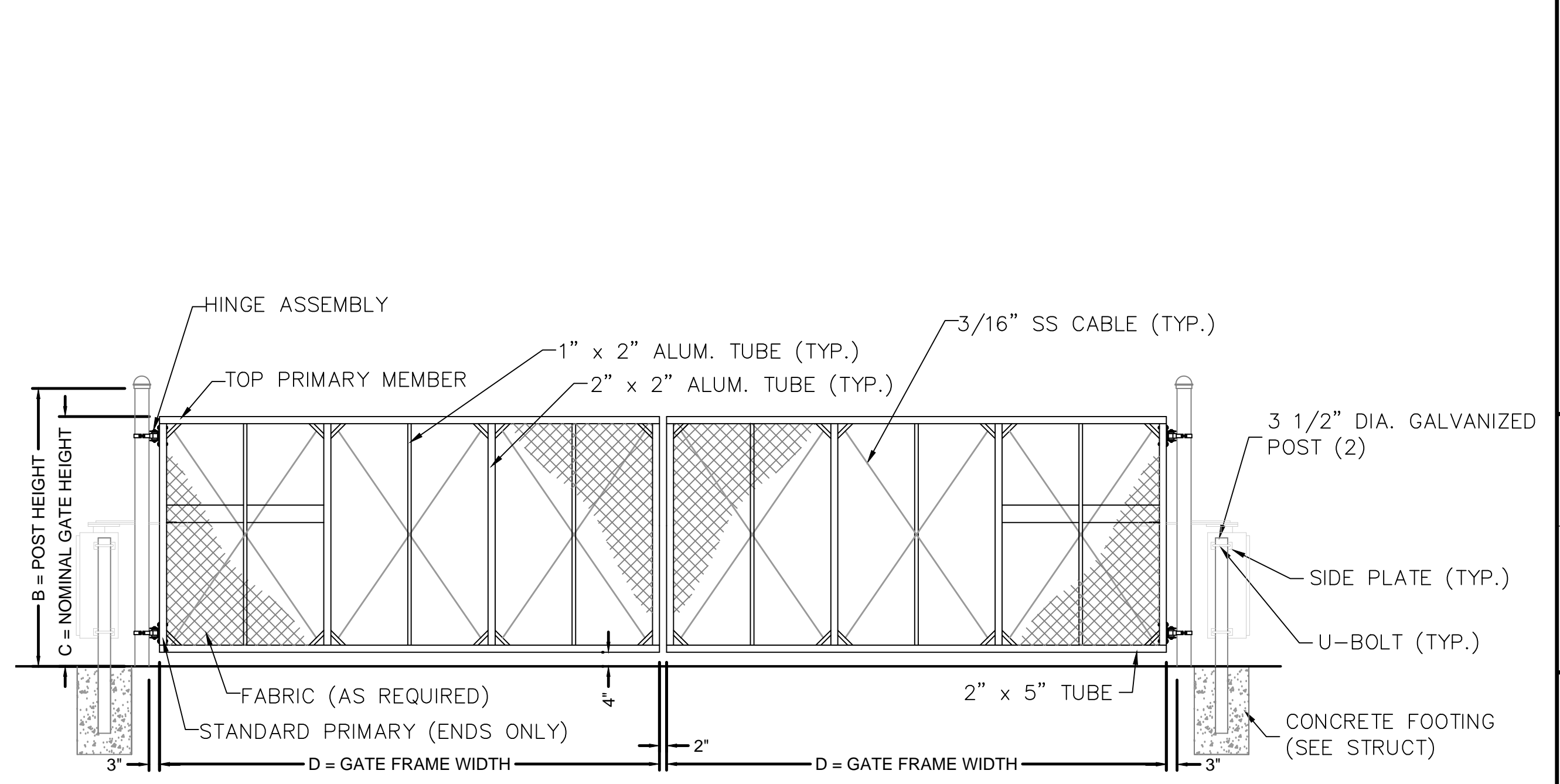
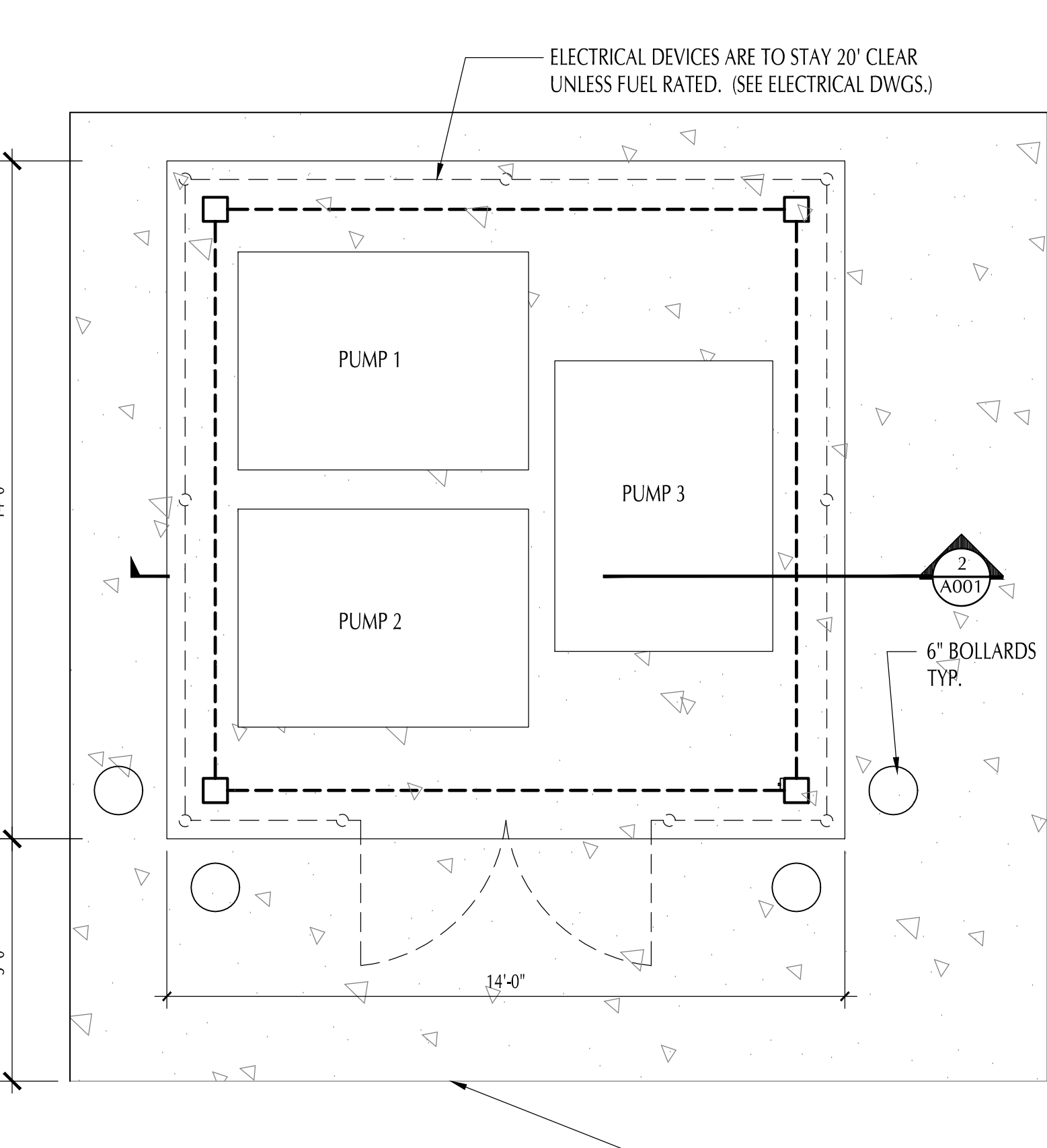
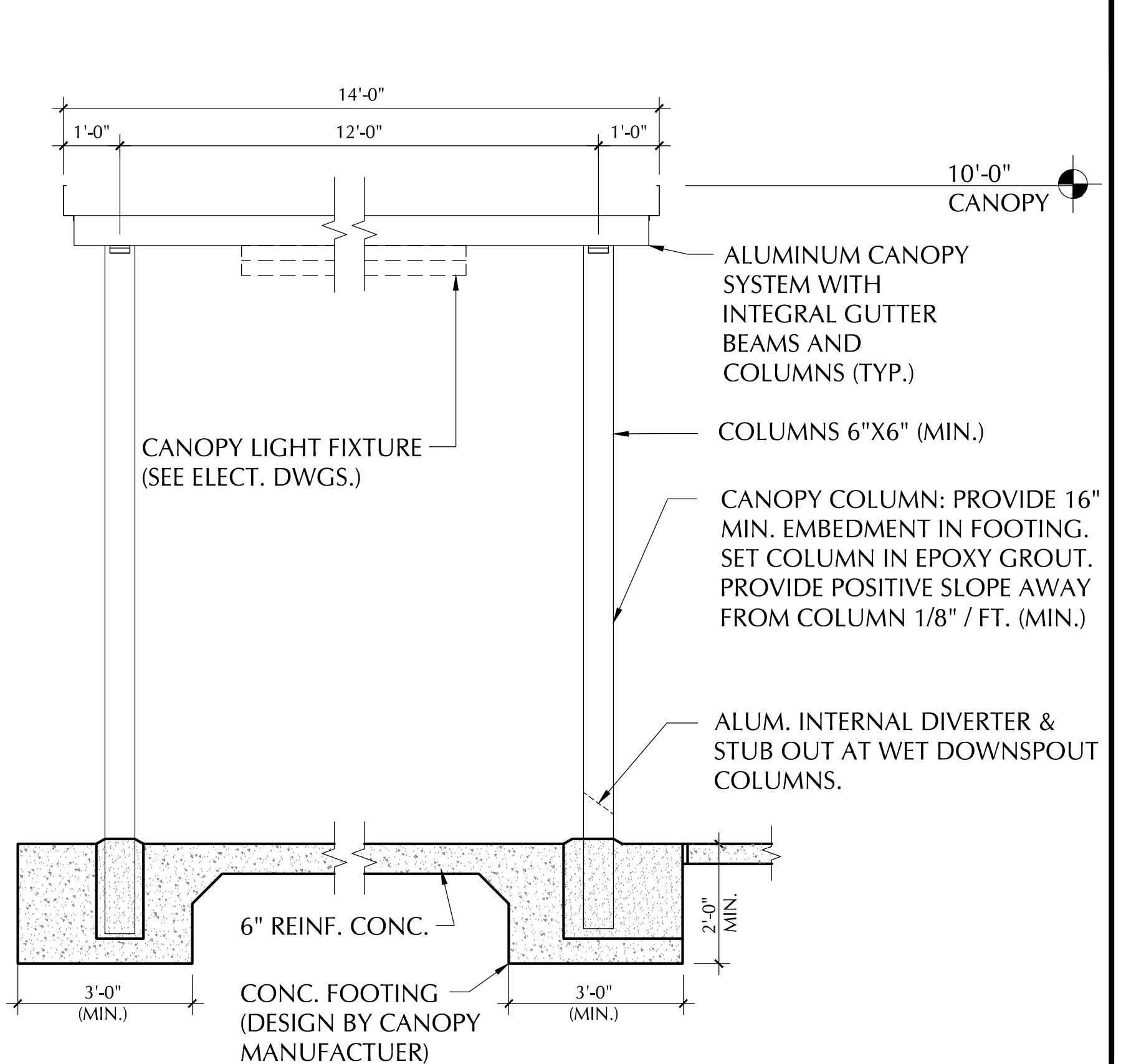


1
A001

ARCHITECTURAL SITE PLAN

SCALE: 1" = 20'-0"

NORTH



2
A001

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

STORAGE CANOPY DETAIL

3
A001

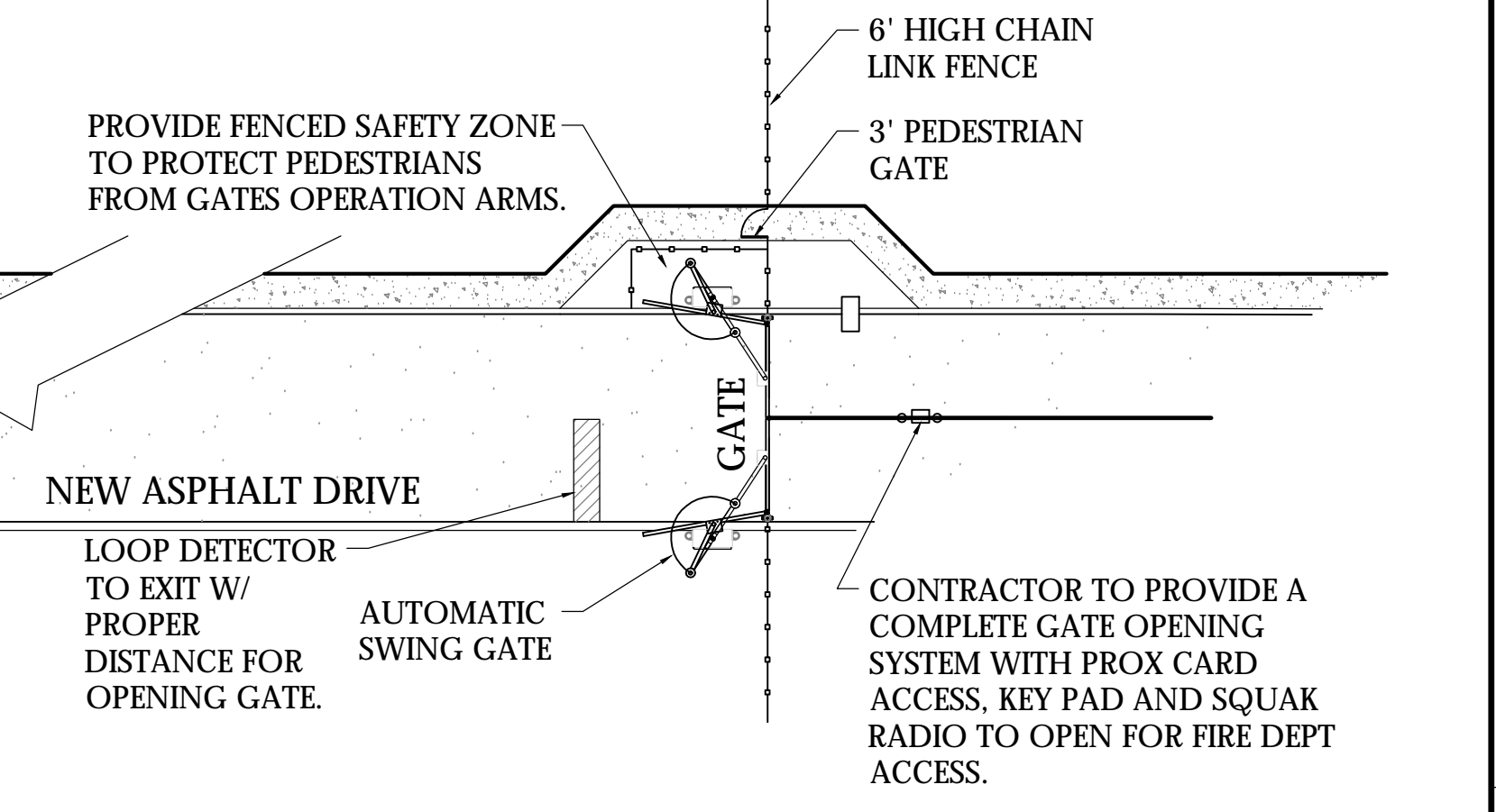
SCALE: 3/8" = 1'-0"

STORAGE CANOPY

4
A001

SCALE: N.T.S.

VEHICLE SWING GATE



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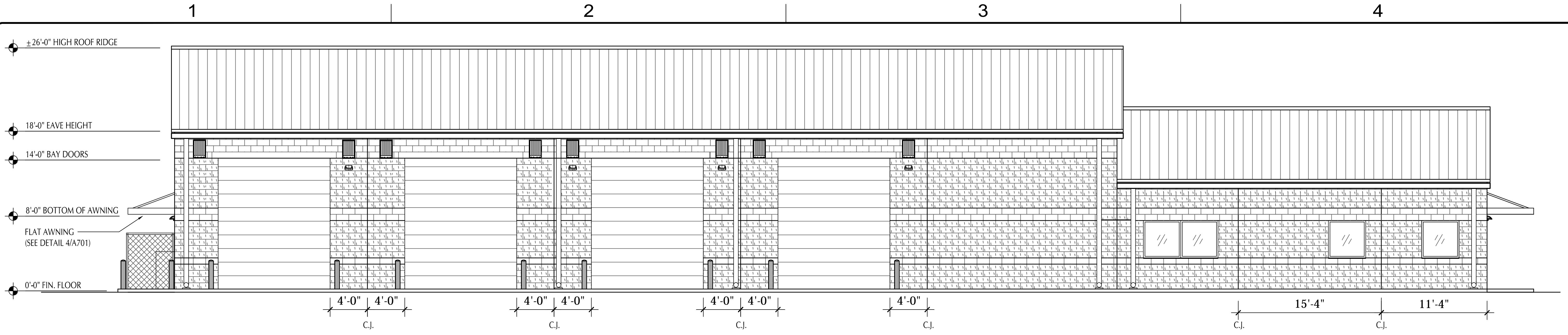
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ARCHITECTURAL SITE PLAN

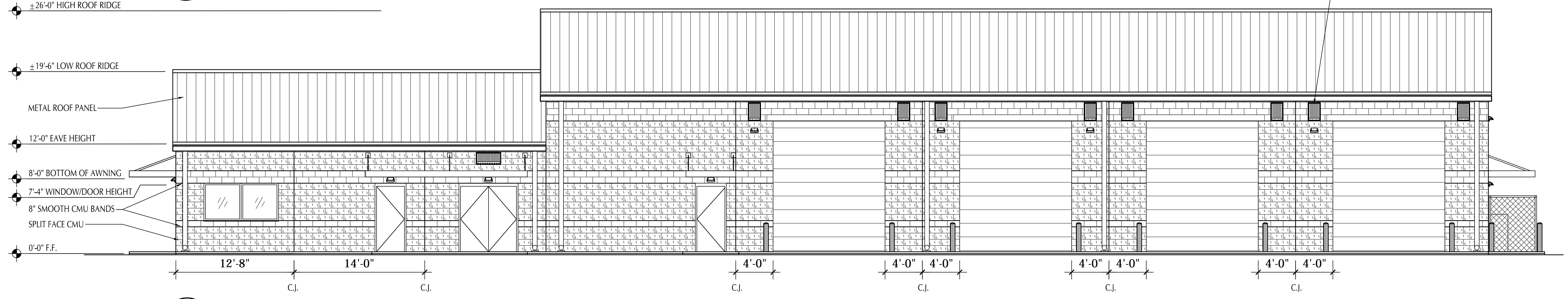
A001

ISSUE DATE 7-12-22

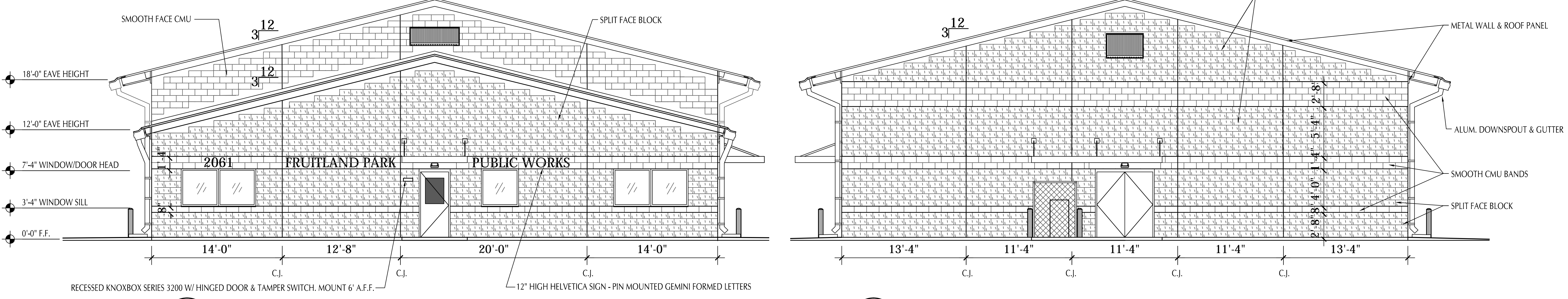
JOB #: GC-20-033



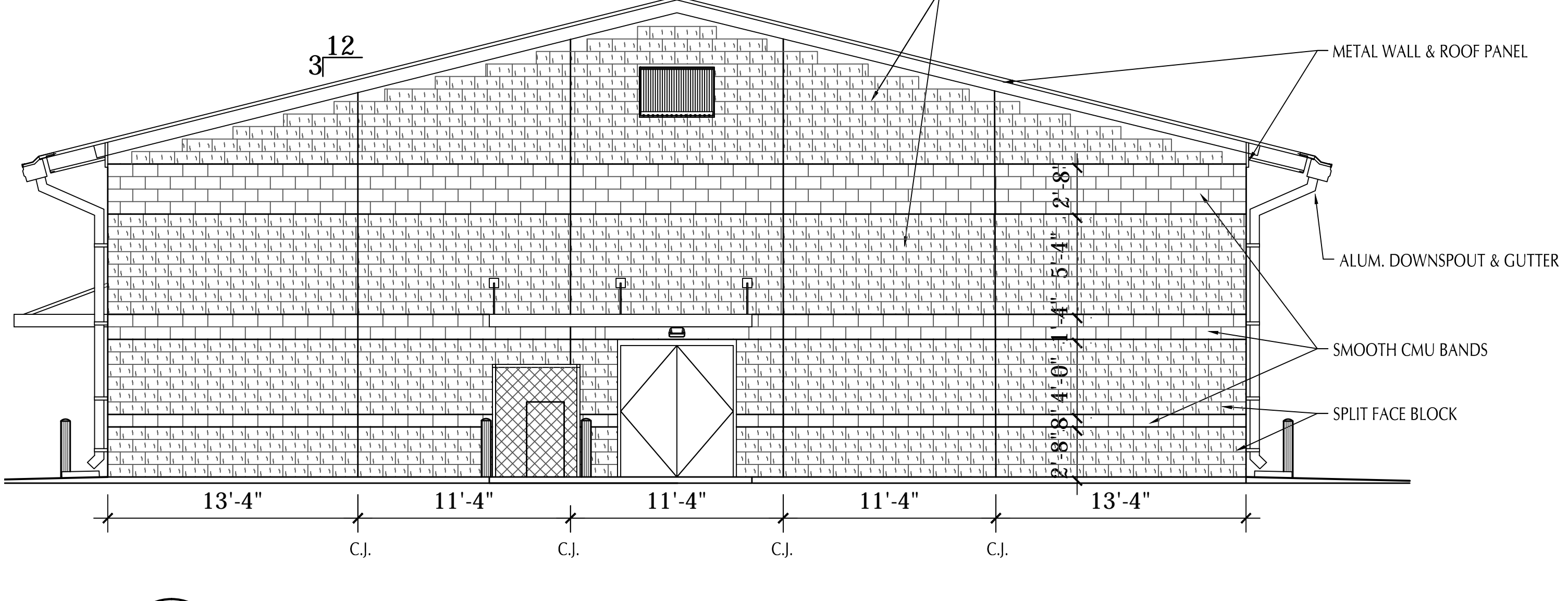
1 WEST BLDG ELEVATION
 SCALE: 3/16" = 1'-0"



2 EAST BLDG ELEVATION
 SCALE: 3/16" = 1'-0"



3 SOUTH BLDG ELEVATION
 SCALE: 3/16" = 1'-0"



4 NORTH BLDG ELEVATION
 SCALE: 3/16" = 1'-0"

BASIS OF DESIGN: EXTERIOR FINISH SCHEDULE

- ROOF, GUTTERS & DOWNSPOUTS: A & S BUILDING SYSTEMS - TUNDRA COLOR MATCH: PEWTER CAST SW7673
- WINDOW FRAMES, AWNINGS, & EXT. FIXTURES: YKK - CLEAR ANODIZED
- HM DOOR FRAMES: TAVERN TAUPE SW7508 HIGH GLOSS - BOTH SIDES BAY DOORS: COLOR RAL 1019
- SPLIT FACE BLOCK: GRIFFIN SW7026 SEMI-GLOSS
- SMOOTH FACE BLOCK: SEAWORTHY SW7620 SEMI-GLOSS

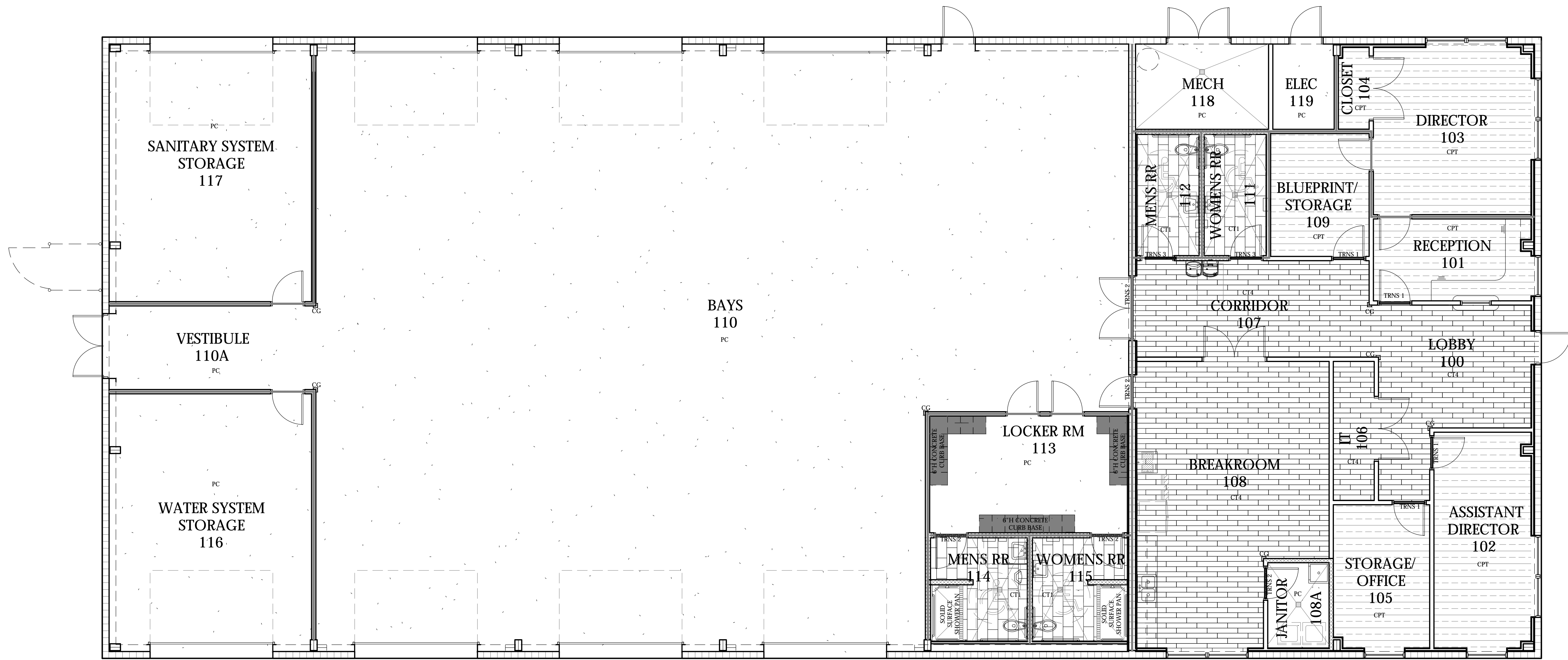
REVISIONS	
BID SET	FRUITLAND PARK PUBLIC WORKS 2601 SPRING LAKE ROAD FRUITLAND PARK, FLORIDA, 34731
SIGN DATE	GatorSketch ARCHITECTS & PLANNERS <small>A-060002010 1000 EAST HWY 50 SUITE 607A, CLEMONT, FL 34711 PH: (407) 868-5677 FAX: (888) 959-4814 Web Site: www.gatorsketch.com</small>
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EXTERIOR ELEVATIONS	A201 <small>ISSUE DATE 7-12-22</small>
JOB #	GC-20-033

1

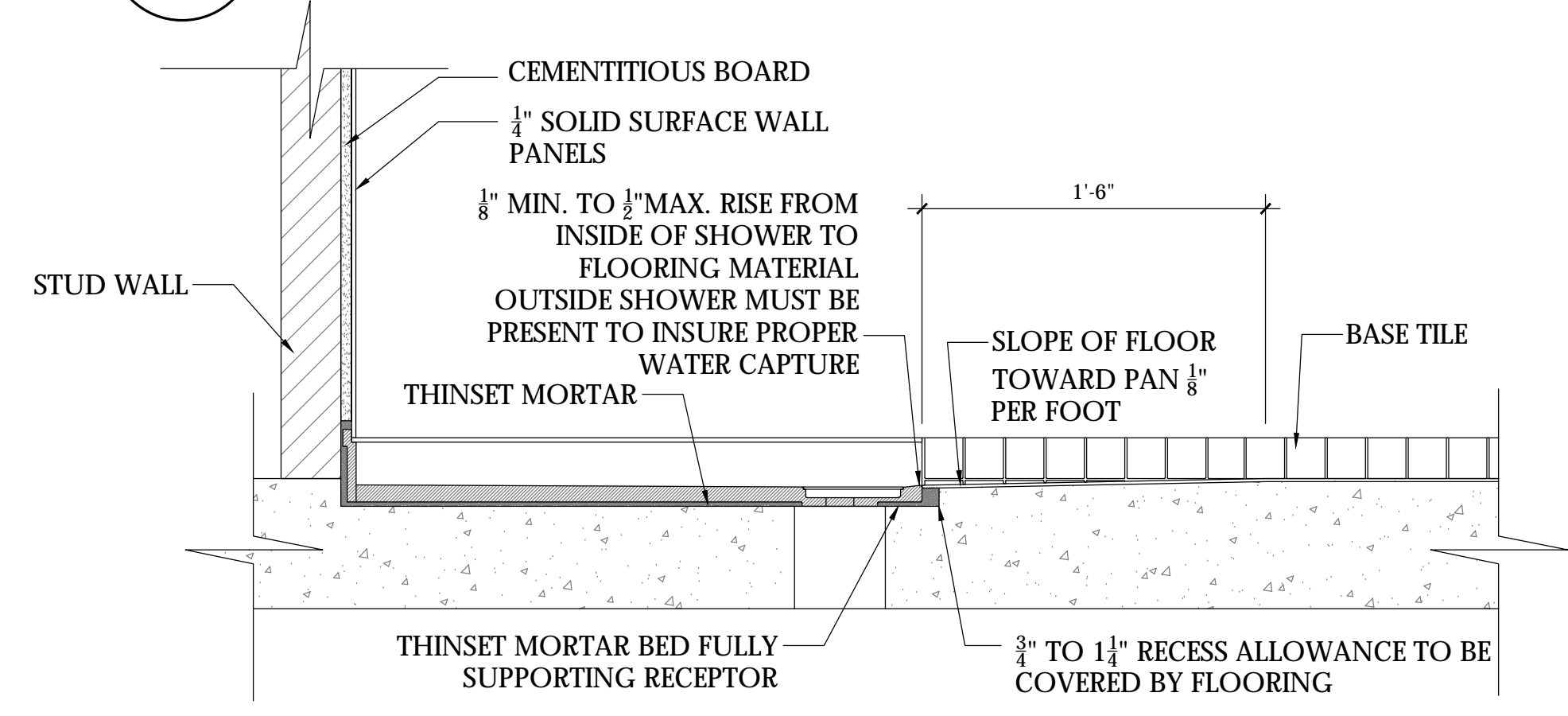
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3

4



1 FLOOR FINISH PLAN
 A301 SCALE: 3/16" = 1'-0"



2 RECESSED SHOWER DRAIN
 A301 SCALE: 1-1/2" = 1'-0"

BASIS OF DESIGN: FLOORING MATERIALS SCHEDULE			
	CPT-CARPET MANNINGTON COMMERCIAL: TILES STYLE: SPAN - COLOR: DISTRICT #13219 SIZE: 18" x 36" PLANK		TRANSITION STRIP #1 - CARPET TO TILE
	PC - POLISHED CONCRETE		TRANSITION STRIP #2 - TILE TO POLISHED CONCRETE
	CT1-PORCELAIN TILE 12" x 24" SPECIALTY TILE: STREAMS COLOR: LIGHT GRAY, NATURAL FINISH		THRESHOLD STRIP #3 - MARBLE THRESHOLD, TILE TO TILE
	CT4-PORCELAIN TILE 36" x 6" SPECIALTY TILE: MODERN RIDGE COLOR: NATURAL, MATTE PRESSED		CONCRETE CURB - LOCKER BASE

REVISIONS

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FLOOR FINISH PLAN
 A301
 ISSUE DATE 7-12-22
 JOB #: GC-20-023

FINISH LEGEND - BASIS OF DESIGN		
ABBR.	PRODUCT DESCRIPTION	ROOM FINISH NOTES
INT. FINISHES		
PC	POLISHED CONCRETE - CLEAR (GRIND & SEAL)	
CPT	MANNINGTON COMMERCIAL - CARPET TILE 18" x 36" - URBAN PATINA - SPAN - REGION #84218	INSTALL PATTERN: VERTICAL ASHLAR
VIN1	MANNINGTON COMMERCIAL - VINYL BASE - 4" - PREMIUM EDGE - TAUPSTONE #909	
TRNS 1	SCHLUTER - THRESHOLD REDUCER - TILE TO CARPET - COLOR: TBD	SIZE DETERMINED BY INSTALLER
TRNS 2	SCHLUTER - THRESHOLD TRANSITION - TILE TO POLISHED CONCRETE - COLOR: TBD	SIZE DETERMINED BY INSTALLER
TRNS 3	THRESHOLD CAP - MARBLE - CONCRETE TO TILE	
SCHL 1	SCHLUTER - WALL TILE TRIM - RONDEC - BRUSHED NICKEL	SIZE DETERMINED BY INSTALLER
SCHL 2	SCHLUTER - COVE BASE TILE TRIM - DILEX - BRUSHED NICKEL	SIZE DETERMINED BY INSTALLER
CT 1	SPECIALTY TILE - PORCELAIN TILE - 12" X 24" FLOOR & WALL - STREAMS, LIGHT GRAY, MATTE FINISH	GROUT: LATICRETE #78 STERLING SILVER
CT 2	SPECIALTY TILE - PORCELAIN TILE - 3" X 24" BULLNOSE - STREAMS, LIGHT GRAY, MATTE FINISH	GROUT: LATICRETE #78 STERLING SILVER
CT 3	SPECIALTY TILE - PORCELAIN TILE - 1.5" HEXAGON MOSAIC - STREAMS, GRAY BLEND, MATTE FINISH	GROUT: LATICRETE #78 STERLING SILVER
CT 4	SPECIALTY TILE - PORCELAIN TILE - 36" X 6" FLOOR - MODERN RIDGE, NATURAL, MATTE PRESSED	GROUT: LATICRETE #56 DESERT KHAKI
CT5	SPECIALTY TILE - PORCELAIN TILE - 1.5" HEXAGON WOOD MOSAIC - CROSSWOOD HERON CR98	GROUT: LATICRETE #56 DESERT KHAKI
QTZ	CORIAN QUARTZ - COUNTERTOP - STORM GREY LEATHERED - 2CM - EASED EDGE	CAULK TO MATCH
SLDS 1	CORIAN SOLID SURFACE - SHOWER FLOORPANS - GLACIER WHITE	CAULK TO MATCH
SLDS 2	CORIAN SOLID SURFACE - SHOWER WALLS - SILVER BIRCH	CAULK TO MATCH
PT 1	SHERWIN WILLIAMS - SW9170 - ACIER - EGGSHELL - WALL PAINT, PRIMARY	EPOXY PAINT ON ALL CMU WALLS
PT 2	SHERWIN WILLIAMS - SW7030 - ANEW GRAY - EGGSHELL - WALL PAINT, SECONDARY	EPOXY PAINT ON ALL CMU WALLS
PT 3	SHERWIN WILLIAMS - SW7620 - SEAWORTHY - EGGSHELL - ACCENT WALL	EPOXY PAINT ON ALL CMU WALLS
PT 4	SHERWIN WILLIAMS - SW7508 - TAVERN TAUPE - HIGH GLOSS - TRIM & DOOR	BOTH SIDES OF DOOR
PT 5	SHERWIN WILLIAMS - SW7757 - HIGH REFLECTIVE WHITE - FLAT - GYP. CEILING / SOFFITS	
PART	SCRANTON - PARTITIONS - HDPE - ORANGE PEEL - BLACK PAISLEY	
CG	INPRO - CORNER GUARD - STAINLESS STEEL	
WCLD	INPRO - WALL COVERING - SANI SURFACE - ION#0386 - WITH TRIM PROFILES	
WC	INPRO - WINDOW COVERINGS - SOLAR SHADES - DAWN - 5% OPENNESS - WHITE/GREY W/ VALANCE COVER	
ACT	ACOUSTICAL CEILING TILE	
ACT2	ACOUSTICAL VINYL CEILING TILE, MOISTURE RESISTANT	
GYP	GYP SUM BOARD	
GYP 2	GYP SUM BOARD, MOISTURE RESISTANT	
CASE WORK / MILLWORK		
LAM 1	FORMICA - CABINET & DOORS - FOX TEAKWOOD - 8907-NG	
LAM 2	FORMICA - COUNTERTOPS & WORKSURFACES - CITADEL - 1097-58 - MATTE FINISH	
HNDL	ALLISON VALUE (4") CTC PULL - BP97926D - AMEROCK - BRUSHED NICKEL	
DOORS		
WD	MARSHFIELD DOOR SYSTEMS, INC. - MASONITE ARCHITECTURAL - RED OAK - FINISH: COCOA BEAN	
HM	PAINTED - PT 4 - BOTH SIDES	

ROOM FINISH SCHEDULE - BASIS OF DESIGN											
RM #	ROOM NAME	FLOOR	BASE	CEILING	TRIM	WALLS				CORNER GUARD	REMARKS
						NORTH	SOUTH	EAST	WEST		
100	LOBBY	CT4	VIN1	ACT	PT4	GYP-PT1	GYP-PT1	GYP-PT1	GYP-PT1/PT3*	CG	*CORRIDOR TO ROOMS 102 & 105 - PT3
101	RECEPTION	CPT	VIN1	ACT	PT4	GYP-PT2	GYP-PT3	GYP-PT2	GYP-PT2		
102	ASSISTANT DIRECTOR	CPT	VIN1	ACT	PT4	GYP-PT2	GYP-PT2	GYP-PT3	GYP-PT2		
103	DIRECTOR	CPT	VIN1	ACT	PT4	GYP-PT2	GYP-PT2	GYP-PT3	GYP-PT2		
104	CLOSET	CPT	VIN1	ACT	PT4	GYP-PT2	GYP-PT2	GYP-PT2	GYP-PT2		
105	STORAGE/OFFICE	CPT	VIN1	ACT	PT4	GYP-PT2	GYP-PT2	GYP-PT2	GYP-PT2		
106	IT CLOSET	CT4	VIN1	---	PT4	GYP-PT1	GYP-PT1	GYP-PT1	GYP-PT1		
107	CORRIDOR	CT4	VIN1	ACT	PT4	GYP-PT1	GYP-PT1	GYP-PT1/CT1	GYP-PT1	CG	
108	BREAKROOM	CT4	VIN1	ACT	PT4	GYP-PT1/CT3	GYP-PT1/PT3	GYP-PT1	GYP-PT1	CG	
108A	JANITORIAL	PC	VIN1	ACT	PT4	GYP-PT1	GYP-PT1/WCLD	GYP-PT1/WCLD	GYP-PT1		
109	BLUEPRINT STORAGE	CPT	VIN1	ACT	PT4	GYP-PT2	GYP-PT2	GYP-PT2	GYP-PT2		
110	BAYS	PC	---	---	PT4	GYP-PT1	CMU-PT1/GYP-PT1	CMU-PT1	CMU-PT1	CG	
110A	VESTIBULE	PC	---	---	PT4	CMU-PT1	---	GYP-PT1	GYP-PT1	CG	
111	WOMENS RESTROOM	CT1	SCHL2/CT2	GYP2	PT4	CT1/CT2/CT5/GYP-PT3	GYP-PT2	CT1/CT2/CT5/GYP-PT3	GYP-PT2		
112	MENS RESTROOM	CT1	SCHL2/CT2	GYP2	PT4	GYP-PT2	CT1/CT2/CT5/GYP-PT3	CT1/CT2/CT5/GYP-PT3	GYP-PT2		
113	LOCKER ROOM	PC	SCHL2/CT2	GYP2	PT4	GYP-PT1	GYP-PT1	GYP-PT1	GYP-PT1		
114	MENS RESTROOM	CT1	SCHL2/CT2	GYP2	PT4	SDL2/CT1/CT2/CT5/PT2	CT1/CT2/CT5/GYP-PT3	CT1/CT2/CT5/GYP-PT2	SDL2/CT1/CT2/CT3/PT2	SCHL1	
115	WOMENS RESTROOM	CT1	SCHL2/CT2	GYP2	PT4	CT1/CT2/CT5/GYP-PT3	SDL2/CT1/CT2/CT5/PT2	GYP-PT2	SDL2/CT1/CT2/CT5/PT3	SCHL1	
116	WATER SYSTEM STORAGE	PC	---	---	PT4	CMU-PT1	GYP-PT1	GYP-PT1	CMU-PT1		
117	SANITARY SYS. STORAGE	PC	---	---	PT4	CMU-PT1	GYP-PT1	CMU-PT1	GYP-PT1		
118	MECHANICAL	PC	---	---	PT4	CMU-PT1	GYP-PT1	CMU-PT1	GYP-PT1		
119	ELECTRICAL	PC	---	---	PT4	GYP-PT1	GYP-PT1	CMU-PT1	GYP-PT1		

FURNITURE, FIXTURE AND EQUIPMENT SCHEDULE - BASIS OF DESIGN									
TAG	DESCRIPTION	FINISH	PURCHASED BY	INSTALL BY	NOTES:	QUANTITY:	B.O.D. MANF:	MODEL NUMBER:	
APPLIANCES									
A1	REFRIGERATOR - FRENCH DOOR/ BOTTOM FREEZER	MONOCHROMATIC STAINLESS	OWNER	OWNER COORDINATE WITH VENDOR	WATER IN DOOR/ NO ICE/ GC TO COORDINATE HOOK-UPS	1	GE PROFILE		
A2	ICE MACHINE	STAINLESS STEEL/ BLACK	OWNER	OWNER COORDINATE WITH VENDOR	GC TO COORDINATE HOOK-UPS, ADJ. LEGS	1	MANITOWOC	NEO	
A3	COPIER		OWNER	OWNER COORDINATE WITH VENDOR		1	TBD		
A4	DRYER		OWNER	OWNER COORDINATE WITH VENDOR		1	WHIRLPOOL		
A5	WASHER - TOP LOADER		OWNER	OWNER COORDINATE WITH VENDOR		1	WHIRLPOOL		
A6	MICROWAVE	MONOCHROMATIC STAINLESS	OWNER	OWNER COORDINATE WITH VENDOR		1	GE PROFILE		
A7	70" TV WITH STATIC WALL MOUNT	BLACK	OWNER	OWNER COORDINATE WITH VENDOR	GC TO COORDINATE WALL MOUNTING HARDWARE	4	TBD	TBD	
A8	55" TV WITH STATIC WALL MOUNT	BLACK	OWNER	OWNER COORDINATE WITH VENDOR	GC TO COORDINATE WALL MOUNTING HARDWARE	1	TBD	TBD	
A9	STATIC WALL MOUNT FOR TV	BLACK	OWNER	OWNER COORDINATE WITH VENDOR	GC TO COORDINATE WALL MOUNTING HARDWARE	5	KANTO	PT300	
DESKS									
D1	U-SHAPED DESK - LEFT RETURN/ BRIDGE	LAMINATE: TBD	OWNER	OWNER COORDINATE WITH VENDOR	BBF, FF, KEYED, BRUSHED CHROME PULLS	1	HON	10700 SERIES	
D2	L-SHAPED DESK - RIGHT RETURN	LAMINATE: TBD	OWNER	OWNER COORDINATE WITH VENDOR	BBF, FF, KEYED, BRUSHED CHROME PULLS	1	HON	10700 SERIES	
EQUIPMENT									
E1	LIFT		OWNER	OWNER COORDINATE WITH VENDOR		1	TBD		
E2	OIL BARRELS		OWNER	OWNER COORDINATE WITH VENDOR		6	TBD		
E3	NEUMATIC TOOL		OWNER	OWNER COORDINATE WITH VENDOR		1	TBD		
FILE / STORAGE									
F1	LATERAL FILE - 5 DRAWER	PAINT: TBD	OWNER	OWNER COORDINATE WITH VENDOR		3	HON	BRIGADE	
F2	OPEN STORAGE / BOOKCASE	PAINT: TBD	OWNER	OWNER COORDINATE WITH VENDOR		1	HON	FLAGSHIP	
F3	LATERAL FILE - 3 DRAWER	PAINT: TBD	OWNER	OWNER COORDINATE WITH VENDOR		1	HON	FLAGSHIP	
F4	CREDENZA STORAGE	LAMINATE: TBD	OWNER	OWNER COORDINATE WITH VENDOR		1	HON		
F5	MOBILE TOOL BOX	PAINT: TBD	OWNER	OWNER COORDINATE WITH VENDOR		8	ULINE		
F6	24"x48" OPEN SHELVING RACK (12' MAX. HT.)	FRAME: BLACK	OWNER	OWNER COORDINATE WITH VENDOR		10	ULINE		
F7	PALETTE RACK (12' MAX. HT.)	FRAME: BLACK	OWNER	OWNER COORDINATE WITH VENDOR		9	ULINE		
LOCKERS									
L1	3-GANG SINGLE TIER LOCKER	PAINT: BLACK	GC	OWNER COORDINATE WITH VENDOR	BOLTED TO 6" CONCRETE BASE, GC TO SUPPLY BLOCKING IN WALL, SLOPED TOP, FINISHED END PANELS	4	TENNSCO		
L2	SINGLE TIER LOCKER	PAINT: BLACK	GC	OWNER COORDINATE WITH VENDOR	BOLTED TO 6" CONCRETE BASE, GC TO SUPPLY BLOCKING IN WALL, SLOPED TOP, FINISHED END PANELS	7	TENNSCO		
SEATING									
S1	TASK OFFICE CHAIR	FRAME:TBD UPHOL: TBD BACK: TBD	OWNER	OWNER COORDINATE WITH VENDOR	ALL ADJ. ARMS, HARD CASTERS, ADJ. LUMBAR	3	HON	IGNITION	
S2	LOBBY CHAIR	FRAME:TBD UPHOL: TBD LAMINATE: TBD	OWNER	OWNER COORDINATE WITH VENDOR	TAPERED SQUARE LEG	3	HON	GROVE	
S3	GUEST OFFICE CHAIR	FRAME:TBD UPHOL: TBD BACK: TBD	OWNER	OWNER COORDINATE WITH VENDOR	HARD CASTERS	2	HON		
S4	SMALL CONFERENCE CHAIR	FRAME:TBD UPHOL: TBD BACK: TBD	OWNER	OWNER COORDINATE WITH VENDOR	HARD CASTERS	2	HON		
S5	CONFERENCE ROOM CHAIR	FRAME:TBD UPHOL: TBD BACK: TBD	OWNER	OWNER COORDINATE WITH VENDOR	HARD CASTERS	6	HON	MOTIVATE	
S6	BREAKROOM CHAIR	FRAME: TBD SHELL: TBD	OWNER	OWNER COORDINATE WITH VENDOR	FELT GLIDES	8	HON	MOTIVATE	
S7	NOT USED								
TABLES									
T1	42" ROUND CONFERENCE TABLE	LAMINATE: TBD FRAME: TBD	OWNER	OWNER COORDINATE WITH VENDOR	X-LEG, NO GROMMET, MATCHING EDGE BAND	1	HON	PRESIDE	
T2	30"x72" BREAKROOM TABLE	LAMINATE: TBD PAINT: TBD	OWNER	OWNER COORDINATE WITH VENDOR	T-LEG W/ GLIDE, MATCHING EDGE BAND	2	HON	HUDDLE	
T3	36"x72" CONFERENCE TABLE	LAMINATE: TBD FRAME: TBD	OWNER	OWNER COORDINATE WITH VENDOR	HARD CASTERS, DATA PORT, MATCHING EDGE BAND	1	HON		
T4	24"x120" WORK TABLE	STAINLESS STEEL	OWNER	OWNER COORDINATE WITH VENDOR	ADJUSTABLE LEGS, DRAWER	1	ULINE		
WINDOW COVERINGS									
W1	ROLLER SHADE - DAWN	WHITE/ GRAY, 5%	GC	OWNER COORDINATE WITH VENDOR	WHITE VALANCE, CHROME CHAIN	11	INPRO		
W2	ROLLER SHADE - SERVICE WINDOW	WHITE, BLACK-OUT	GC	OWNER COORDINATE WITH VENDOR	WHITE VALANCE, CHROME CHAIN	1	INPRO		

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ROOM FINISH & EQUIPMENT SCHEDULES

A302

ISSUE DATE 7-12-22

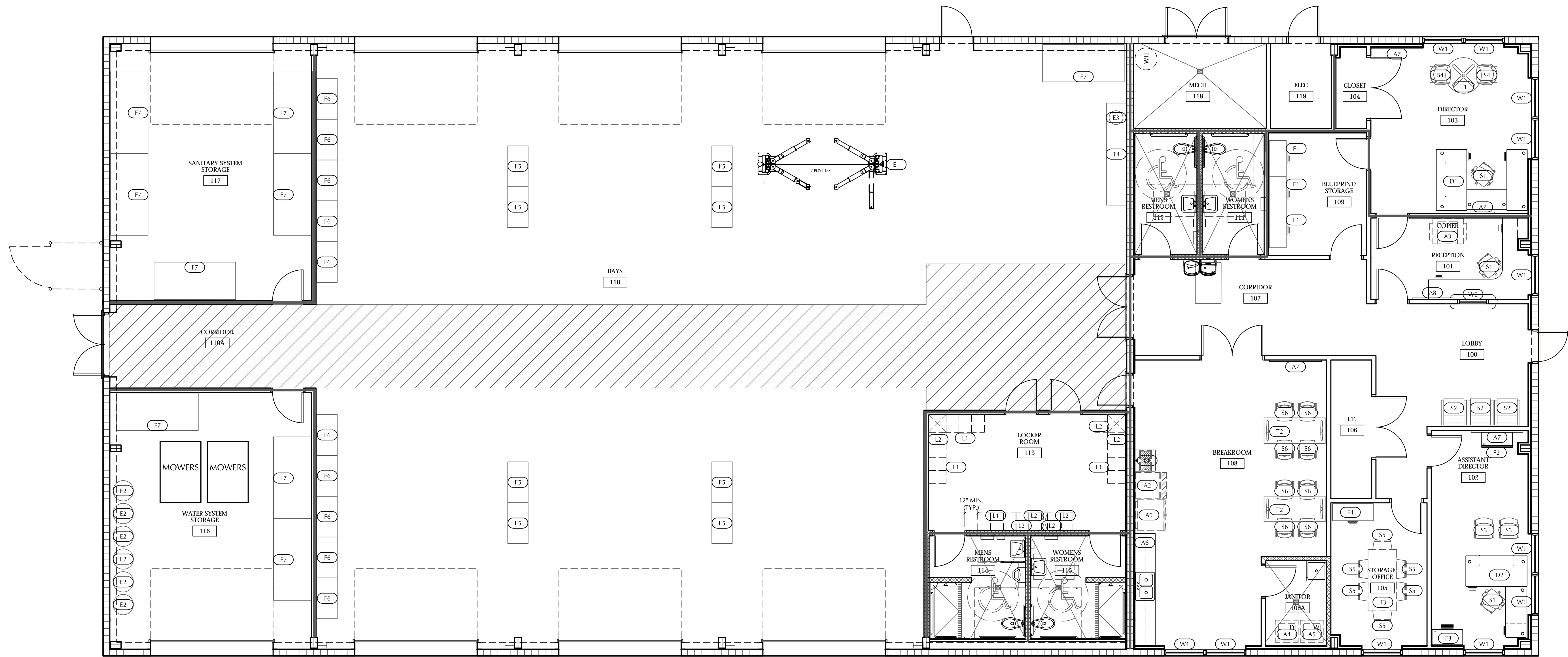
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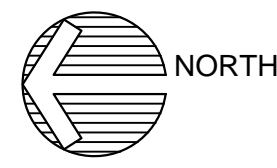
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A311 **EQUIPMENT PLAN**
 SCALE: 3/16" = 1'-0"



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EQUIPMENT PLAN
A311
 ISSUE DATE 7-12-22

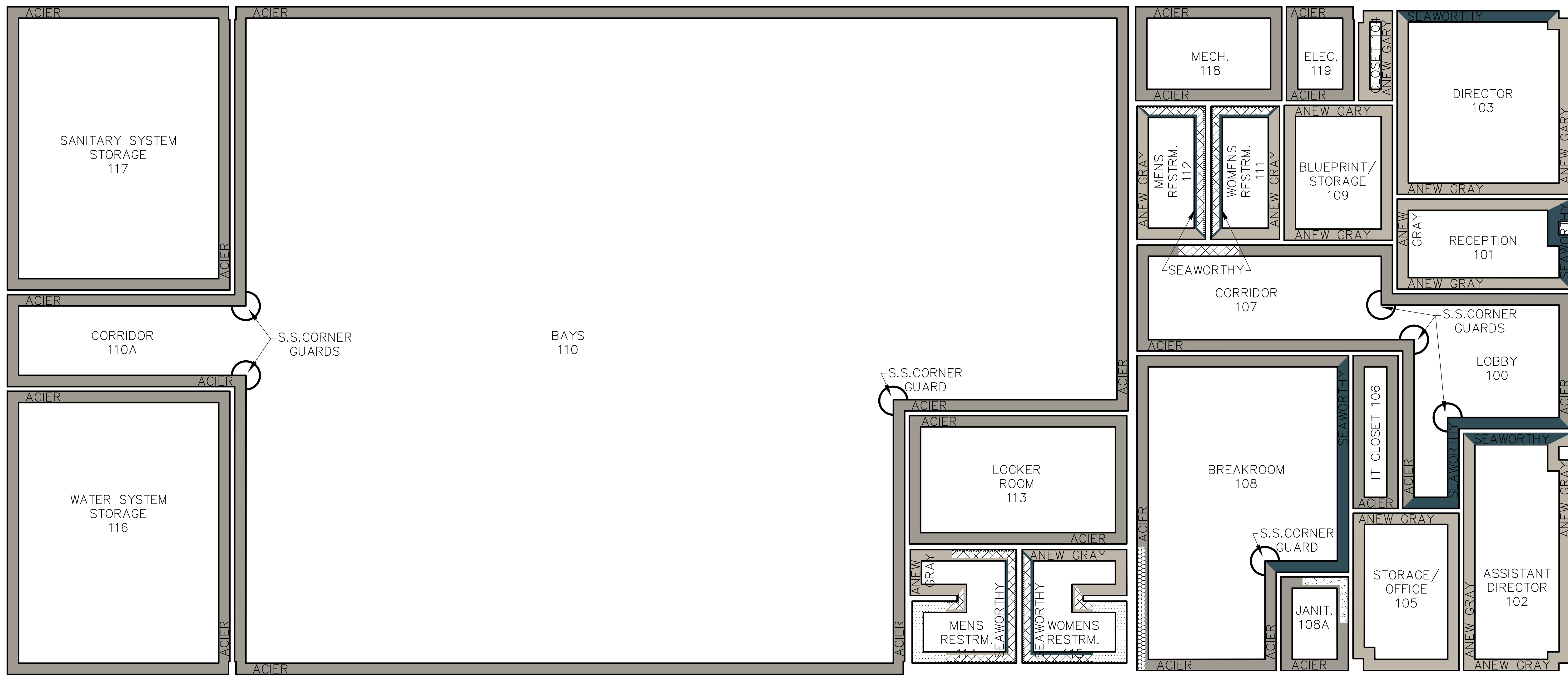
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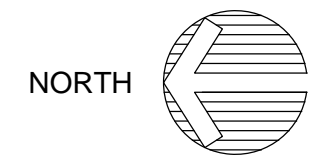
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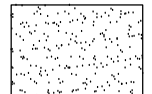



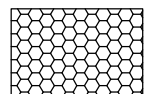

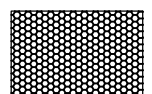

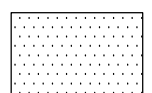
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A312
INTERIOR PAINT PLAN
SCALE: 3/16" = 1'-0"



BASIS OF DESIGN: PAINT SCHEDULE

	TRIM: TAVERN TAUPE SW7508 RGB: 156-138-121		INPRO SANTI-WALL CLAD
	PRIMARY: ACIER SW9170 RGB: 158-153-145		PORCELAIN TILE 12"X24"
	SECONDARY: ANEW GRAY SW7030 RGB: 191-182-170		PORCELAIN TILE MOSAIC - GRAY
	ACCENT: SEAWORTHY SW7620 RGB: 49-77-88		PORCELAIN TILE MOSAIC - WOOD TONE
	CEILING: HIGH REFLECTIVE WHITE RGB: 247-247-241		SOLID SURFACE
NOTE: IN OPEN CEILING AREAS, PAINT TO TERMINATE AT BOTTOM OF ROOF PURLINS UNLESS NOTED.		CG = FULL HEIGHT STAINLESS STEEL CORNER GUARDS	

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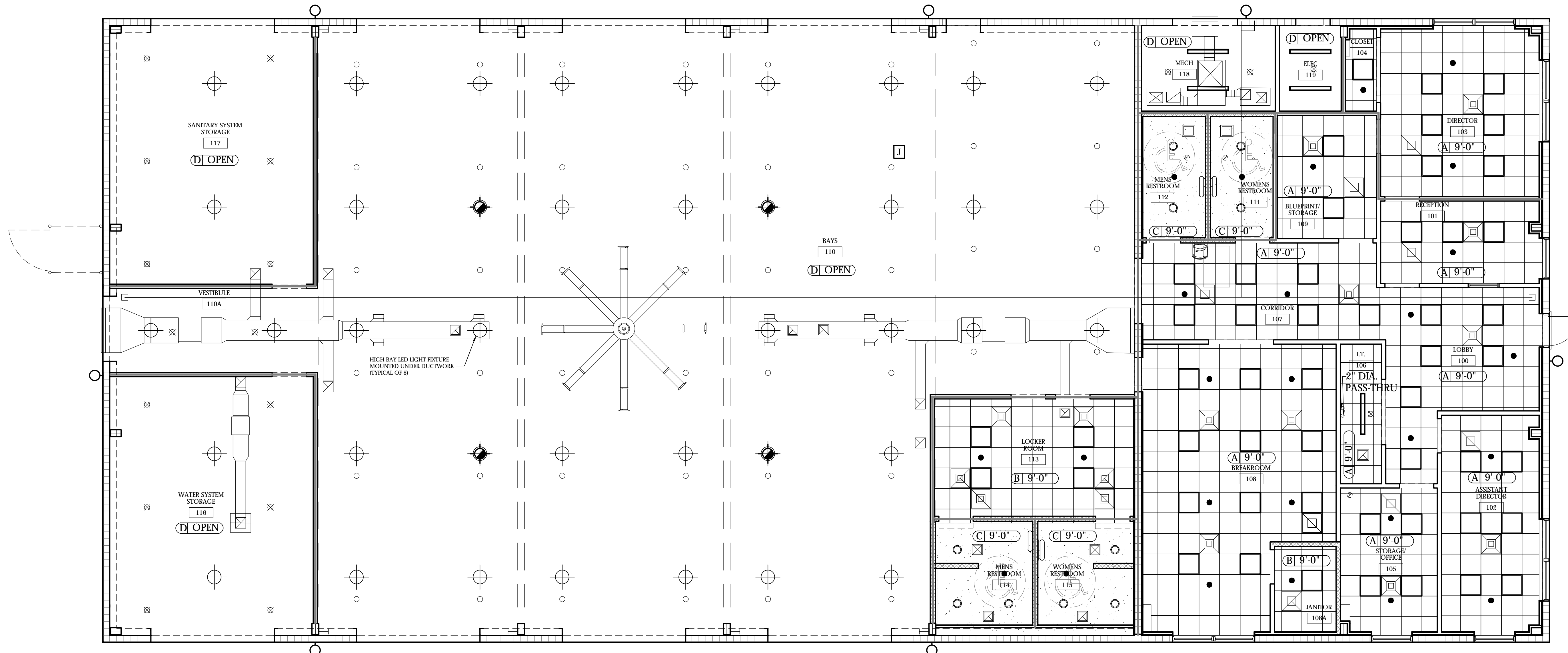
INTERIOR PAINT PLAN
A312
JOB #: GC-20-033
ISSUE DATE 7-12-22

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1 REFLECTED CEILING PLAN
 SCALE: 3/16" = 1'-0"



REFLECTED CEILING KEY

- (A) 2 X 2 ACOUSTICAL TILES @ REFERENCED HEIGHT PROVIDE TILES WITH MINIMUM .55 NRC
- (B) 2 X 2 ACOUSTICAL VINYL TILES @ REFERENCED HEIGHT PROVIDE TILES WITH MINIMUM .70 NRC AT LOCKER ROOM
- (C) PAINTED GYP. BD. CEILING @ REFERENCED HEIGHT PROVIDE MOISTURE RESISTANT GYP. BD. AT EXTERIOR, TOILET ROOMS & SHOWERS
- (D) OPEN CEILING, EXPOSED HVAC & PLUMBING PIPES
- (C 10'-0") DESIGNATES HEIGHT OF CEILING
- (A 9'-0") DESIGNATES MATERIAL OF CEILING
- WALL HEIGHT TO TERMINATE AT DECK

ELECTRICAL PLAN SYMBOL LEGEND

- RECESSED LIGHT
- ⊗ LIGHT AND EXHAUST FAN
- LED LINEAR SUSPENDED LIGHT
- LED LIGHT FIXTURE (LAY-IN)
- ▬ SURFACE MOUNTED WALL LIGHT
- ⊕ 16" HIGHBAY LED LIGHT
- ⊖ EXTERIOR LIGHT FIXTURE
- ⊗ INDUSTRIAL FAN
- ⊠ HVAC SUPPLY
- ⊡ HVAC RETURN
- ⊞ HVAC EXHAUST
- CHROME-PLATED SEMI-RECESSED SPRINKLER
- BRASS UPRIGHT SPRINKLER
- ⊗ BRASS UPRIGHT W/ WIRE GUARD SPRINKLER

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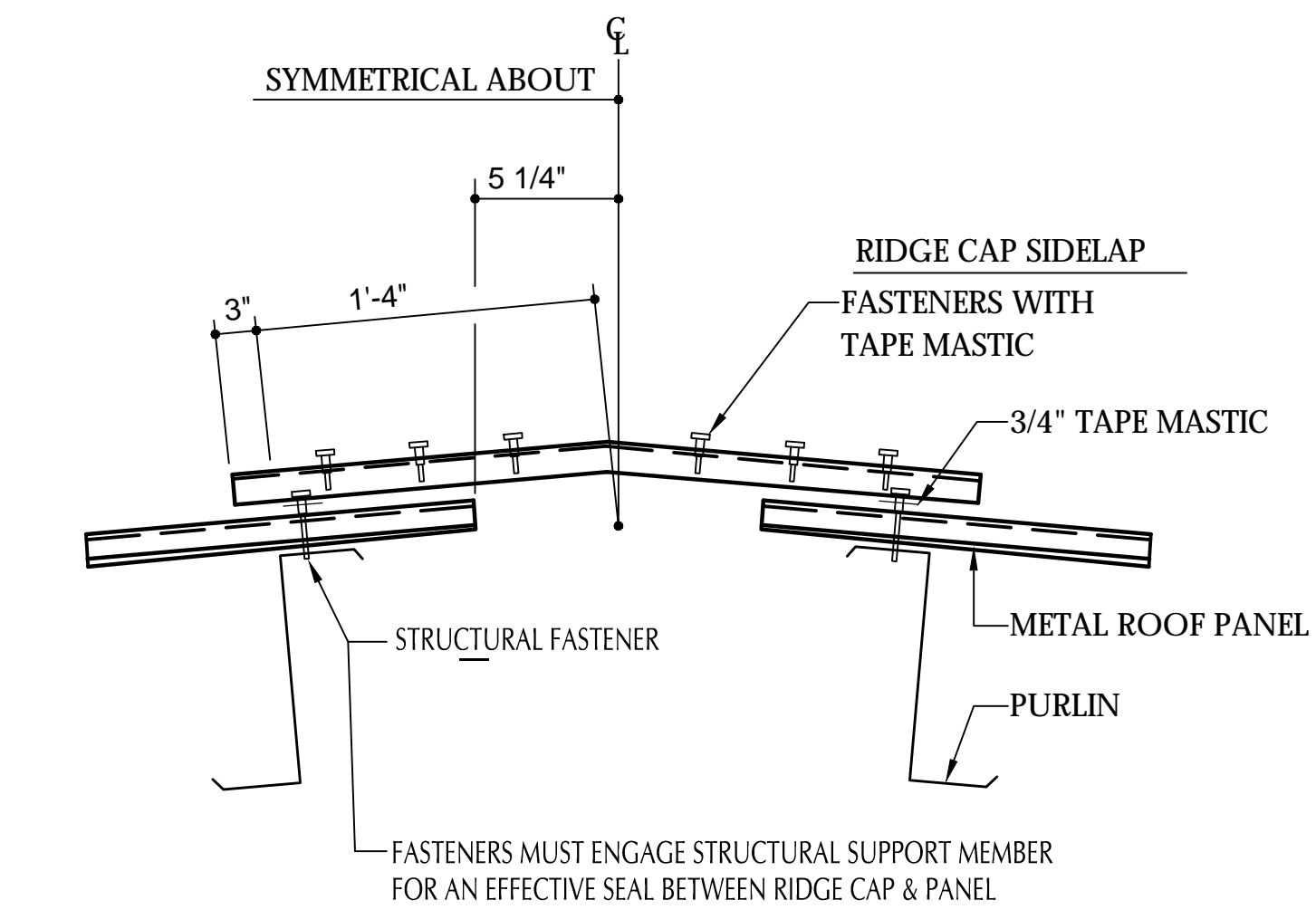
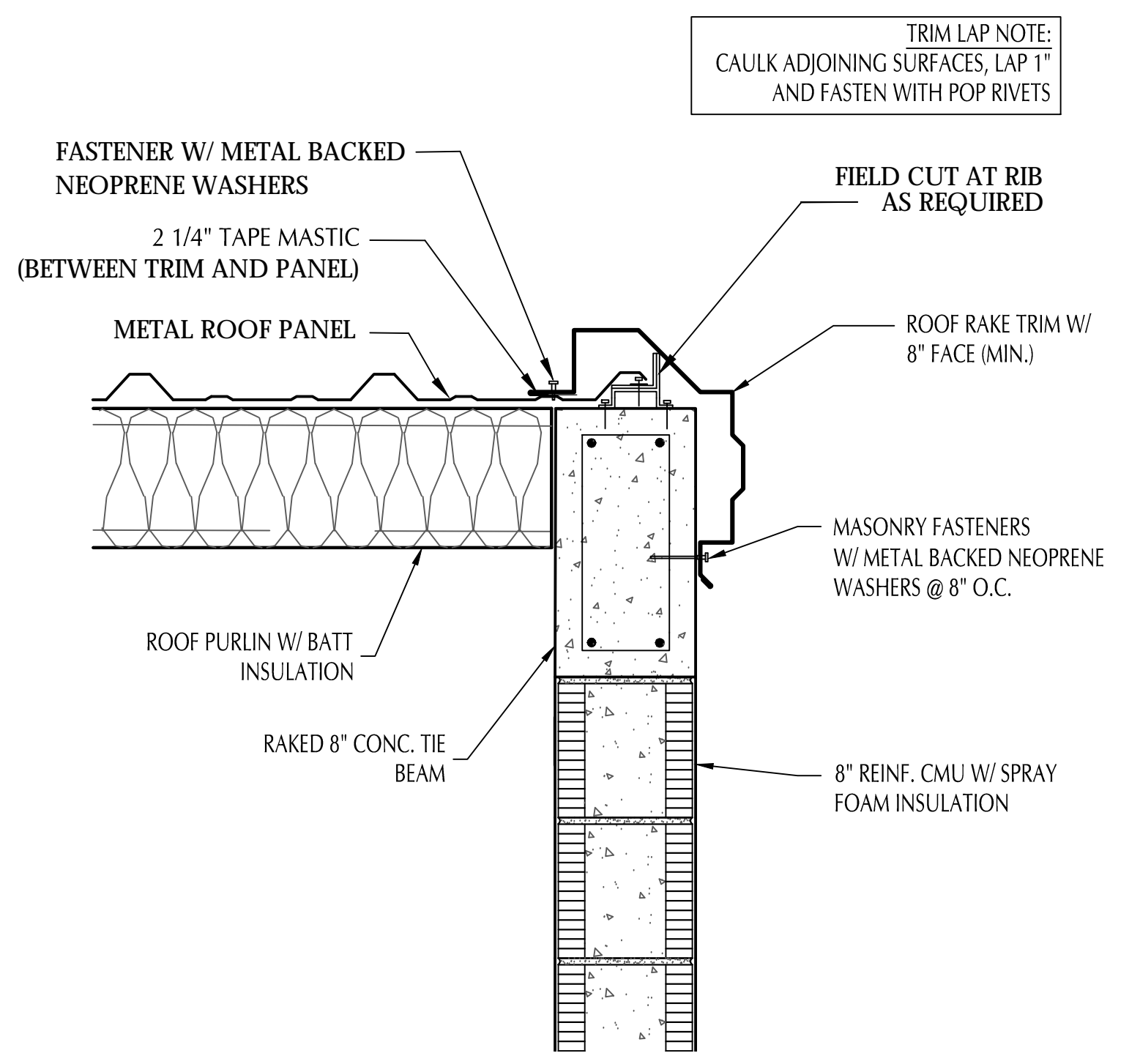
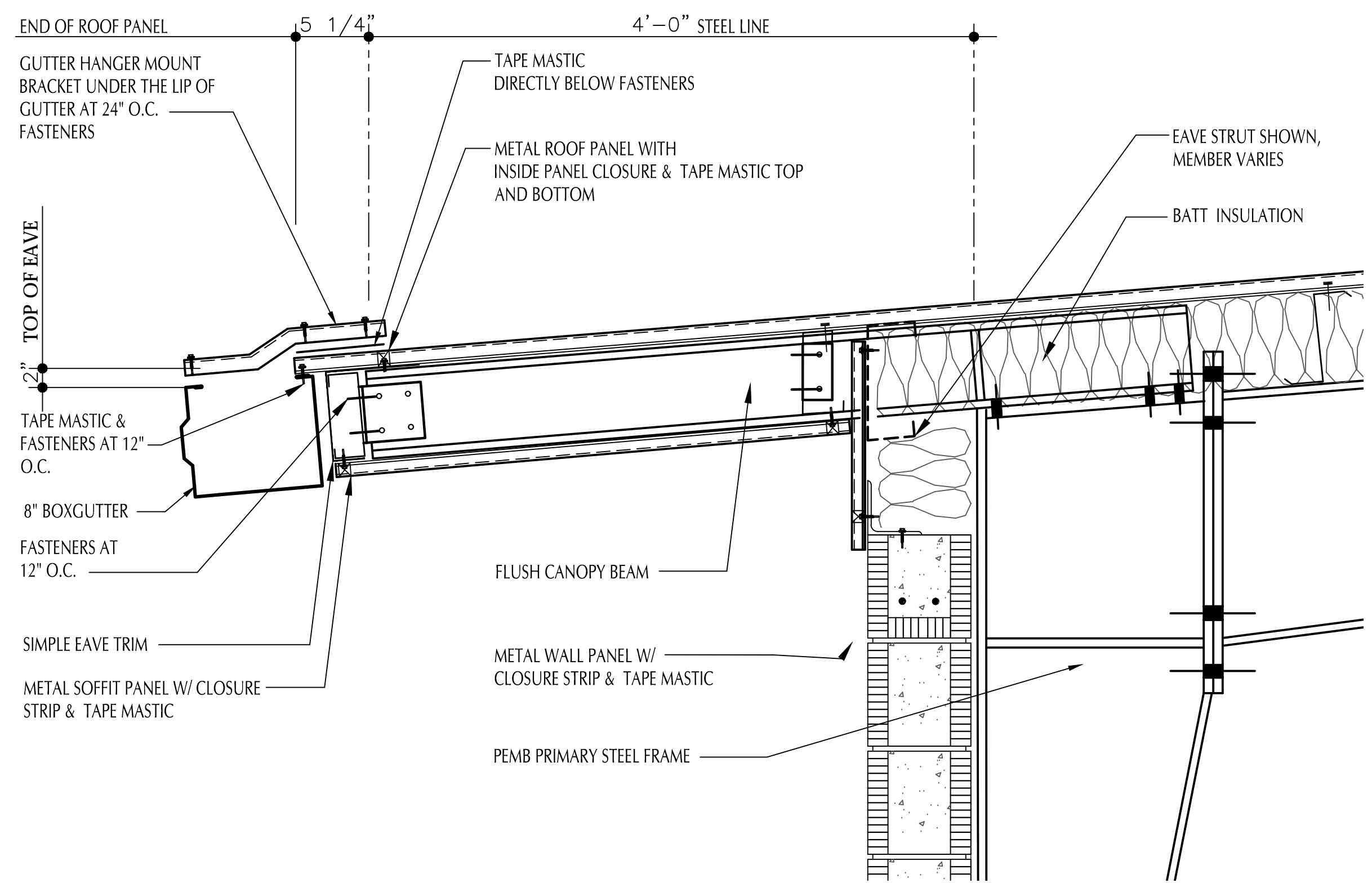
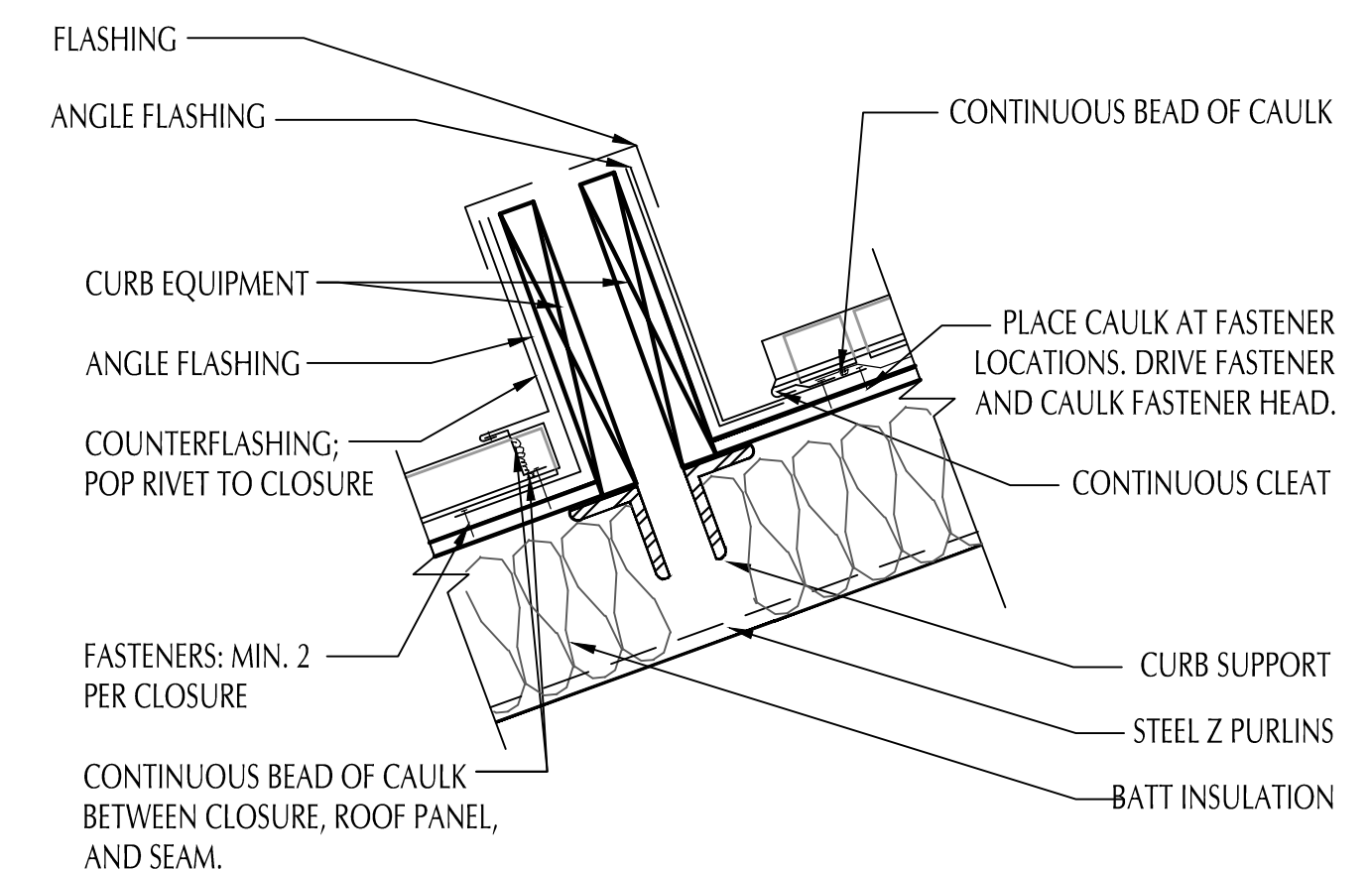
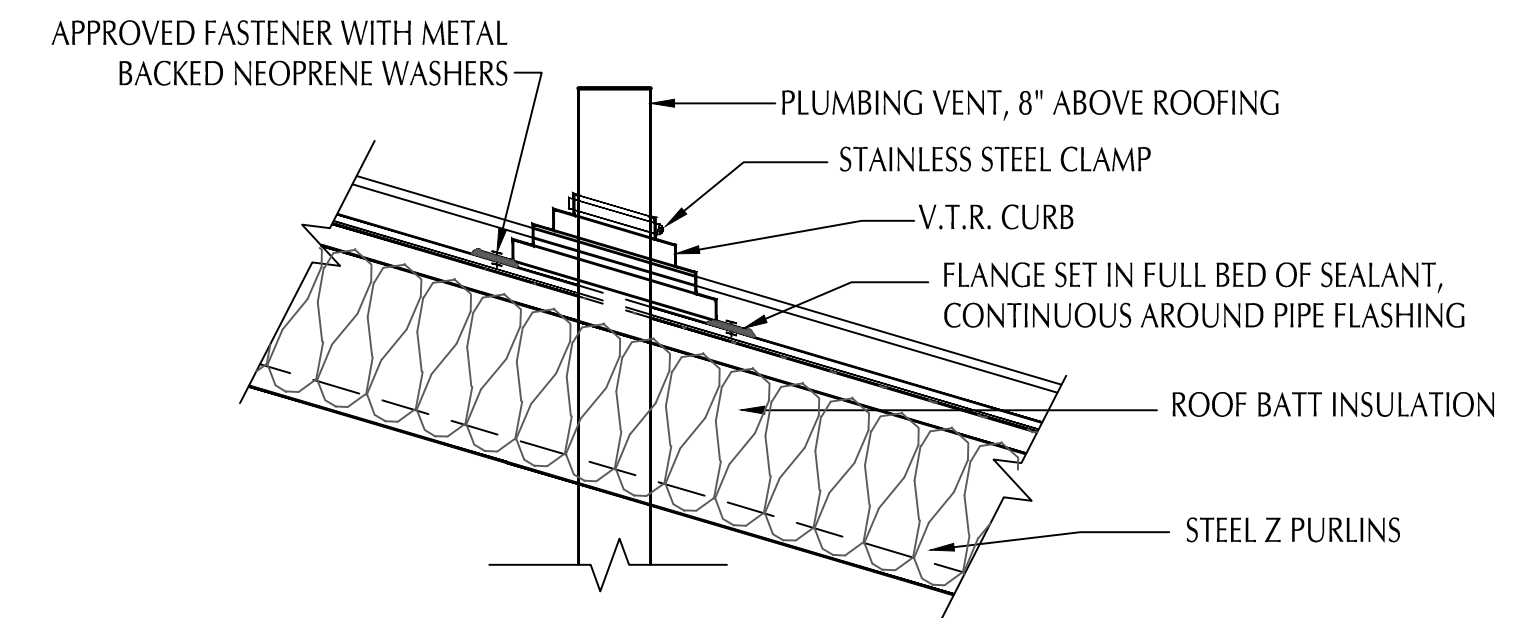
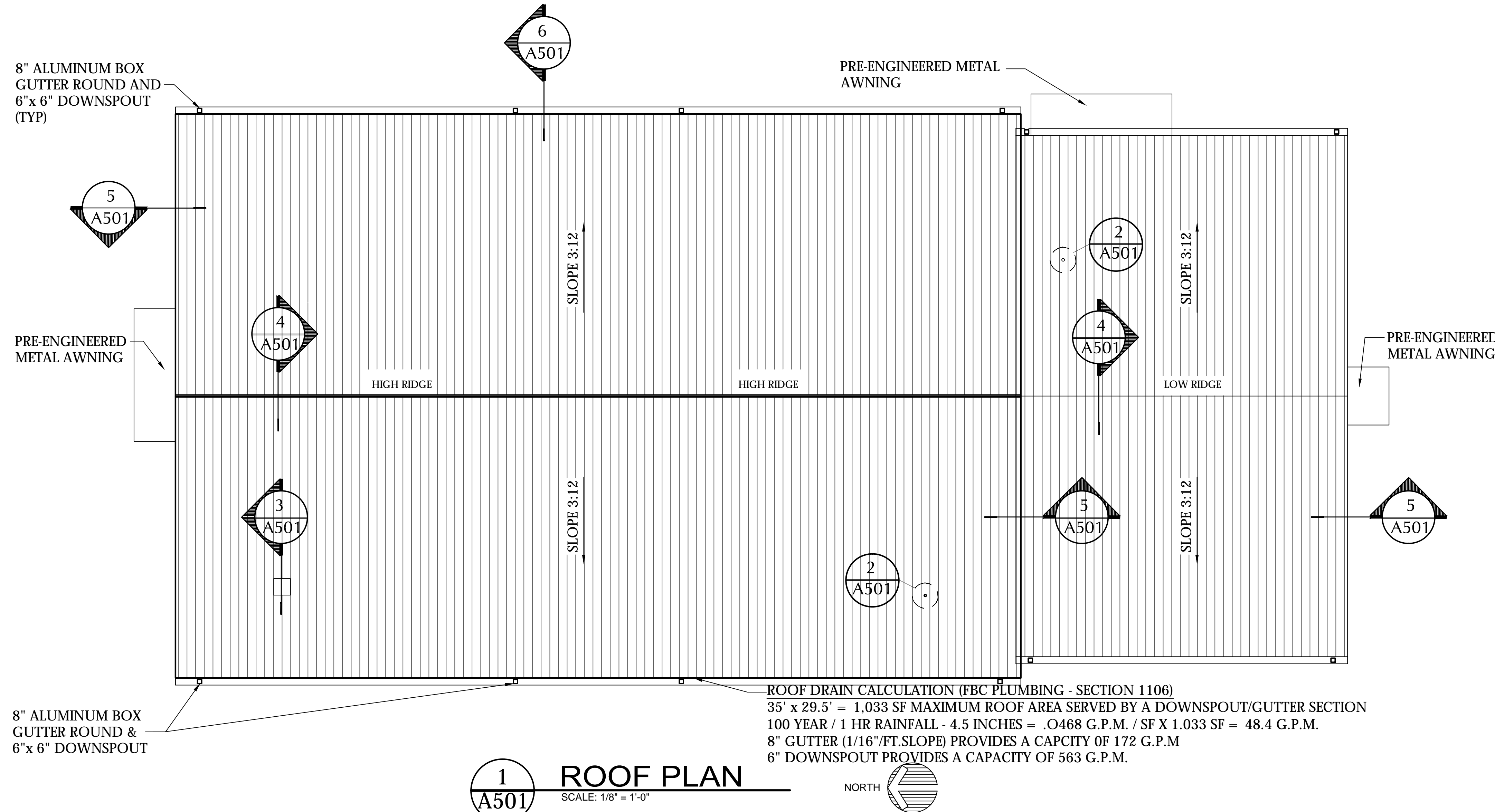
**REFLECTED
CEILING PLAN**
A401
 ISSUE DATE 7-12-22

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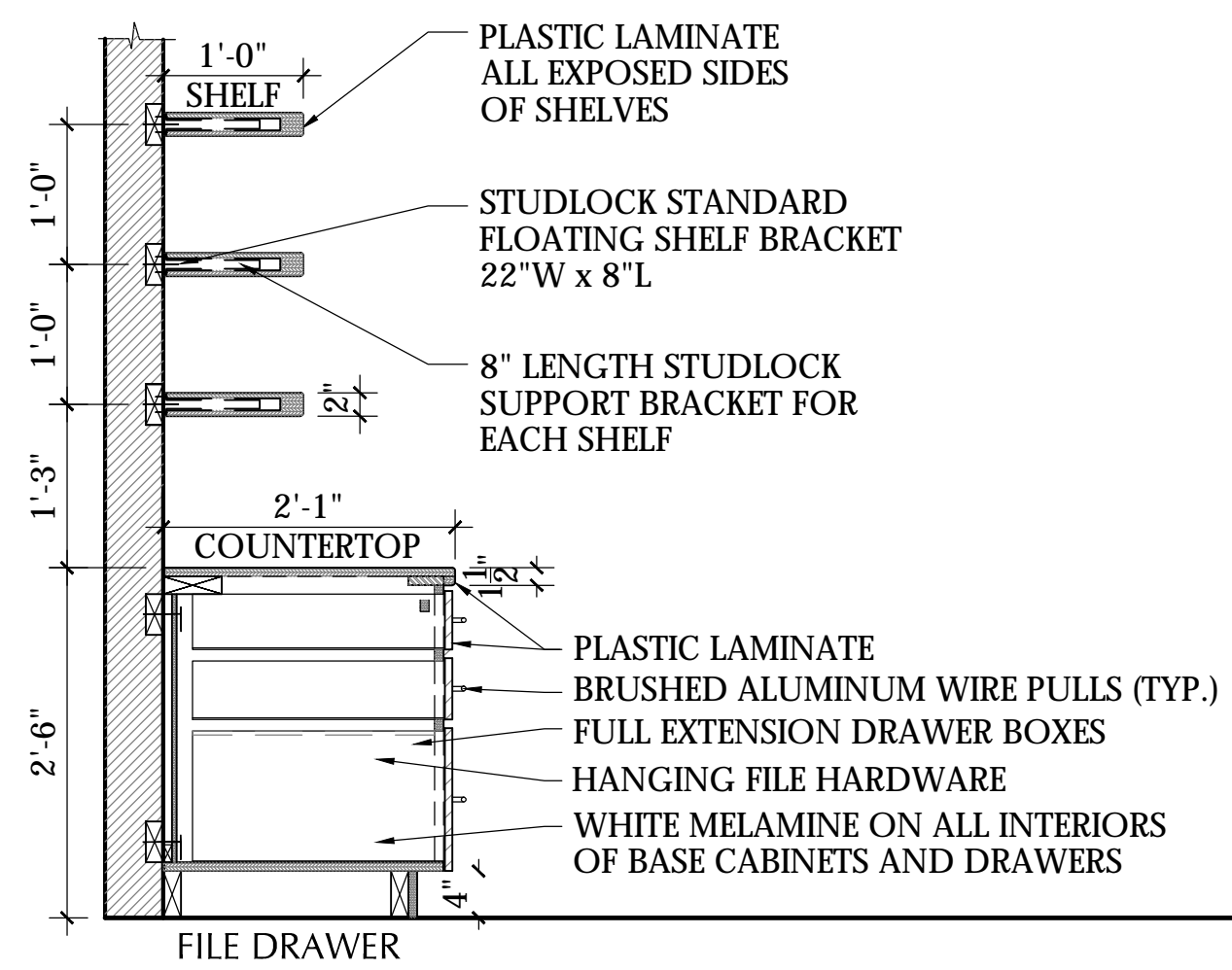
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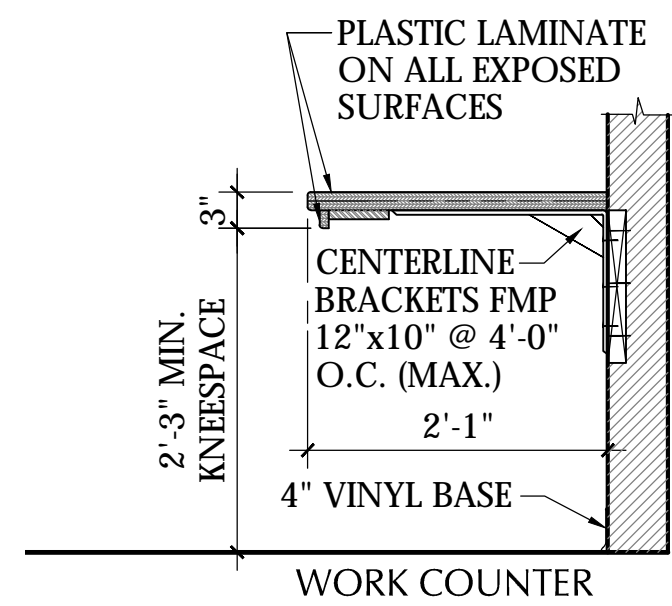
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ROOF PLAN
A501
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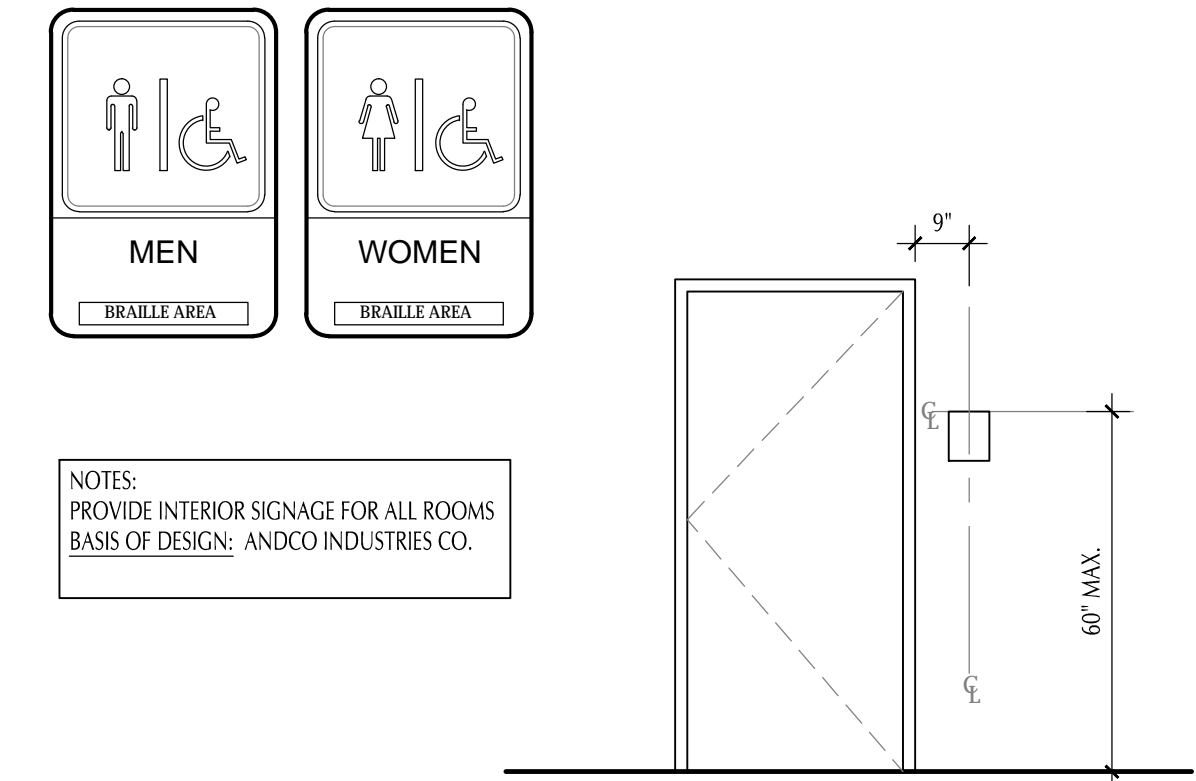
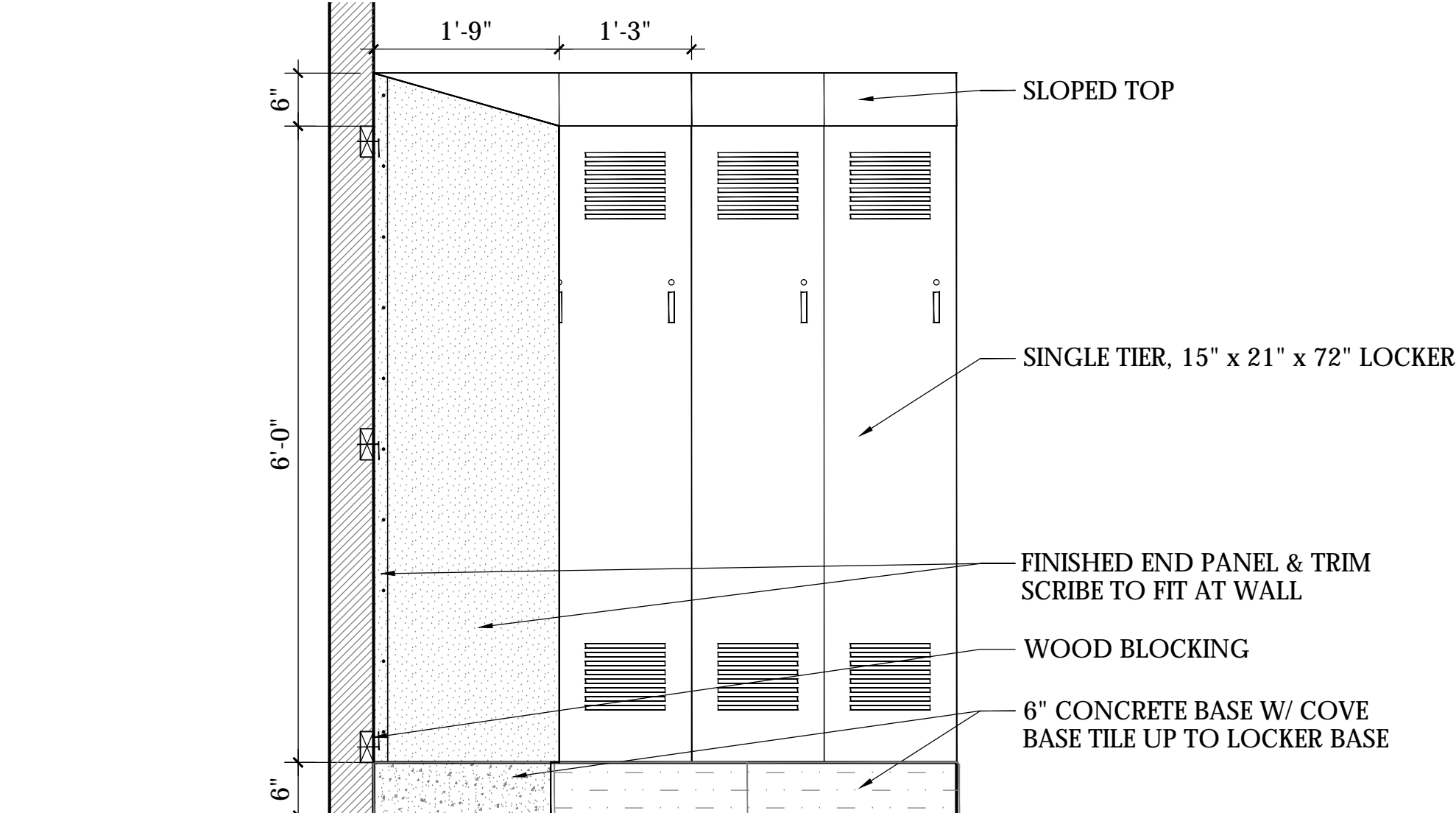
JOB #: GC-20-033



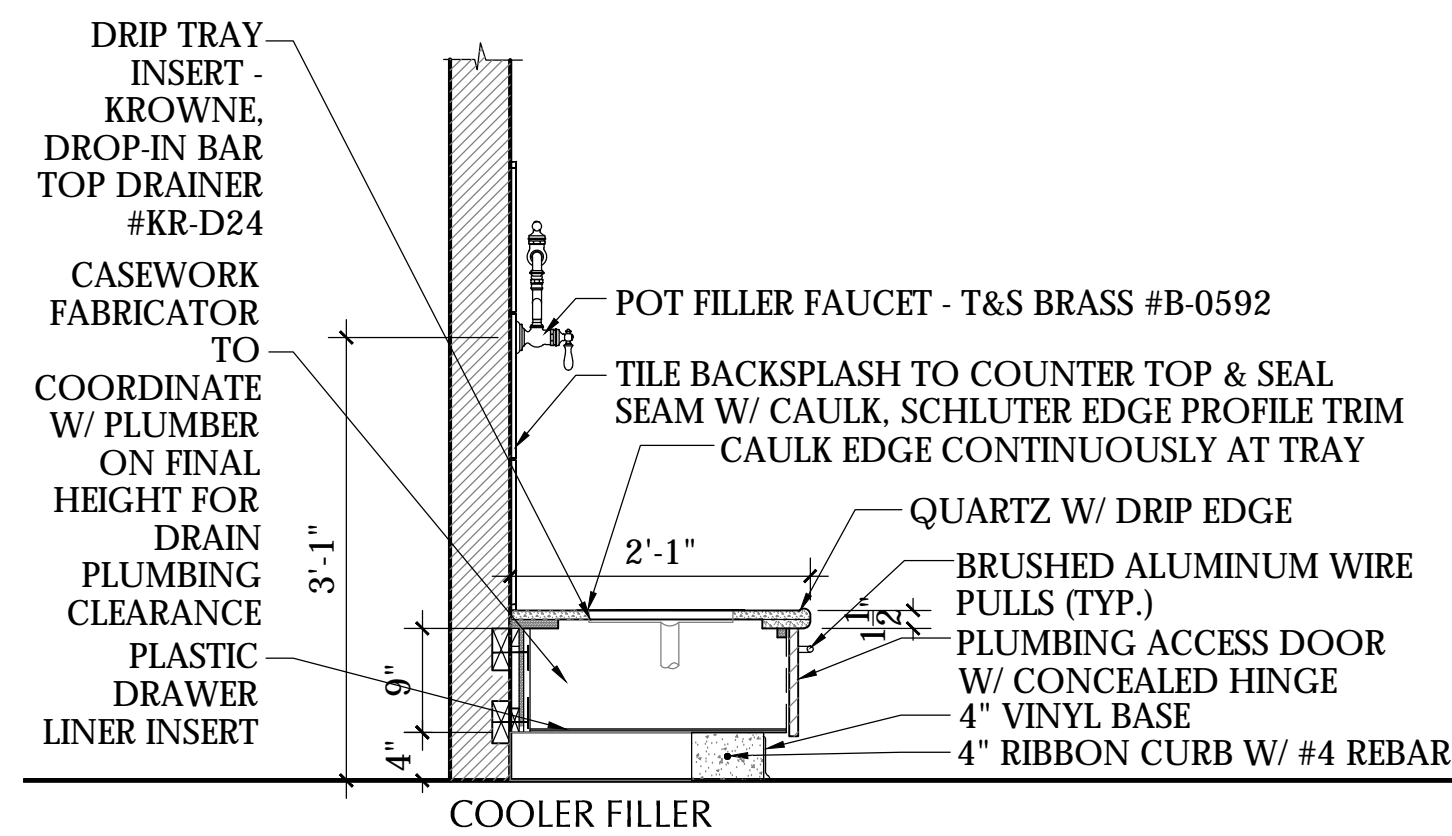
1 RECEPTION #101
A601 SCALE: 3/4" = 1'-0"



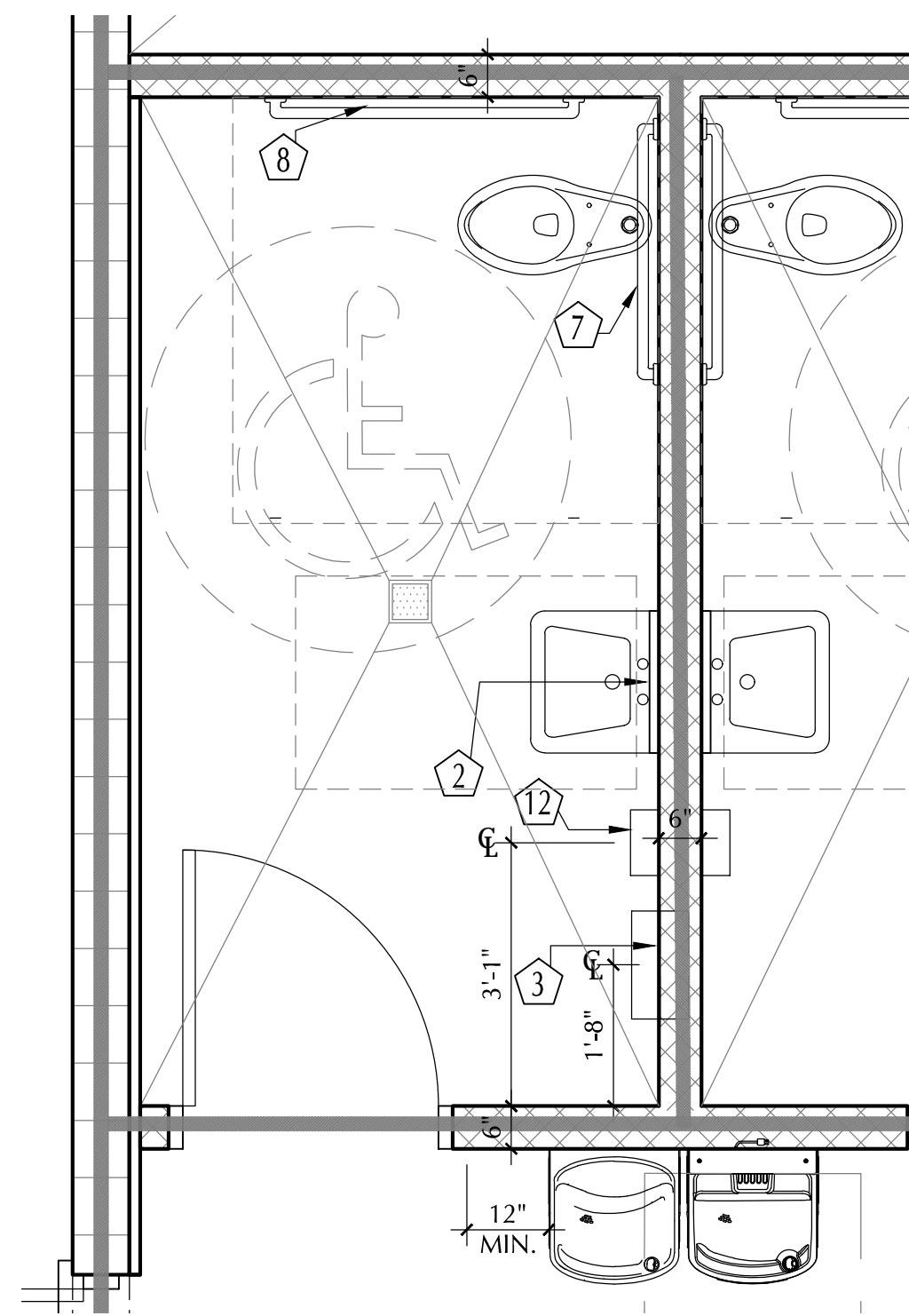
4 LOCKER ROOM #112
A601 SCALE: 3/4" = 1'-0"



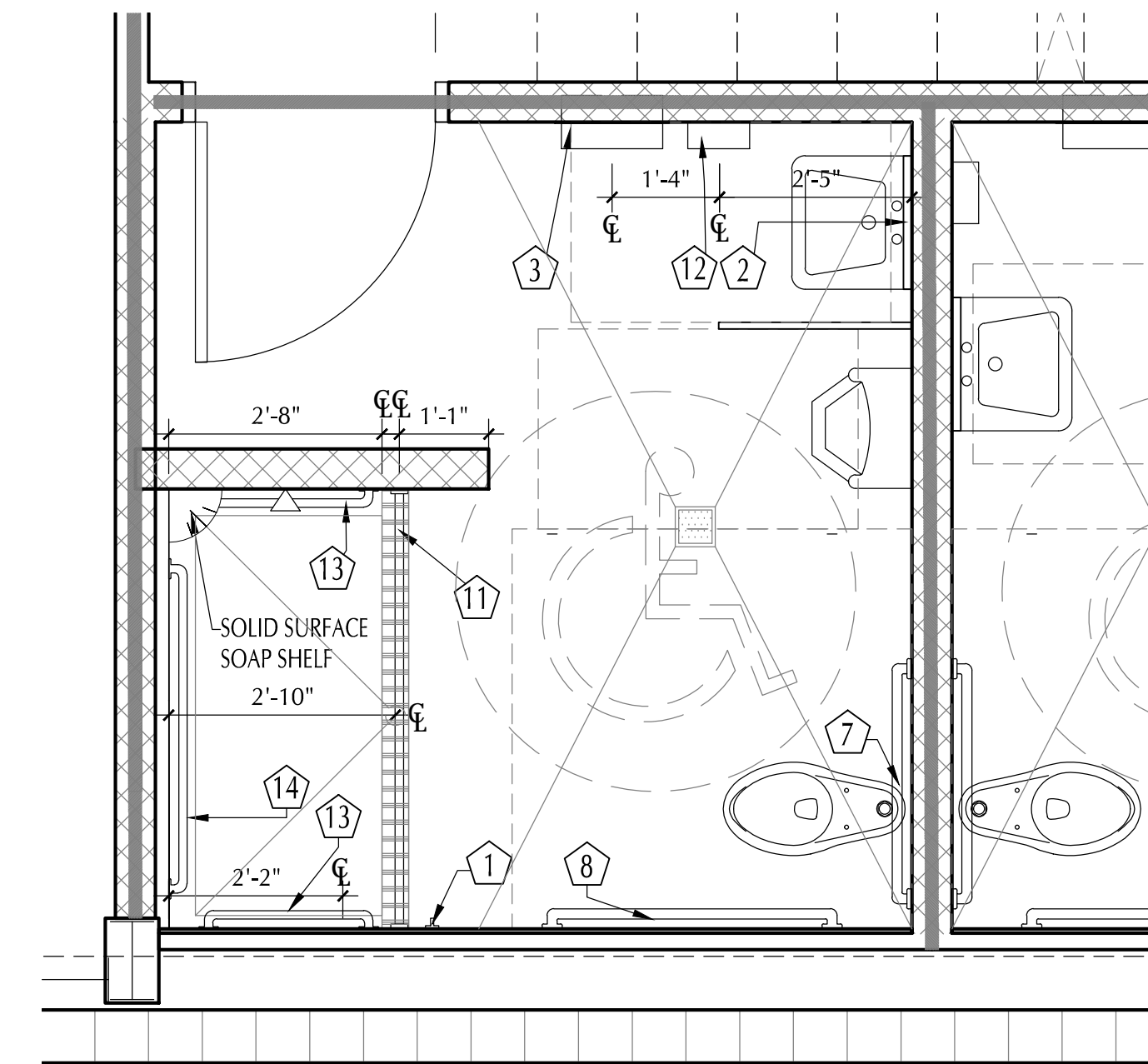
8 A.D.A. INTERNATIONAL SYMBOLS
A601 SCALE: 3/8" = 1'-0" (TYPICAL)



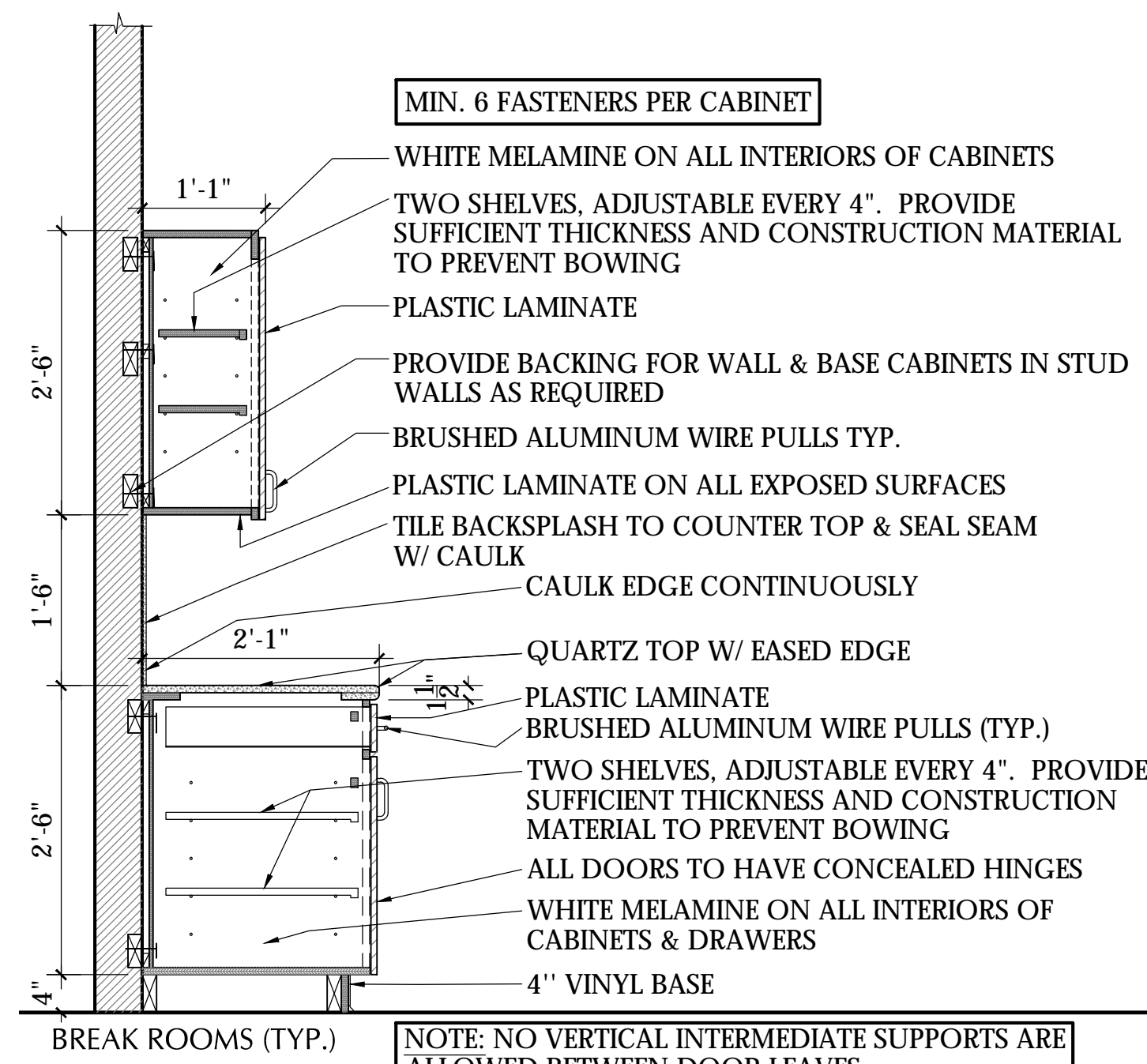
2 BREAKROOM #108
A601 SCALE: 3/4" = 1'-0"



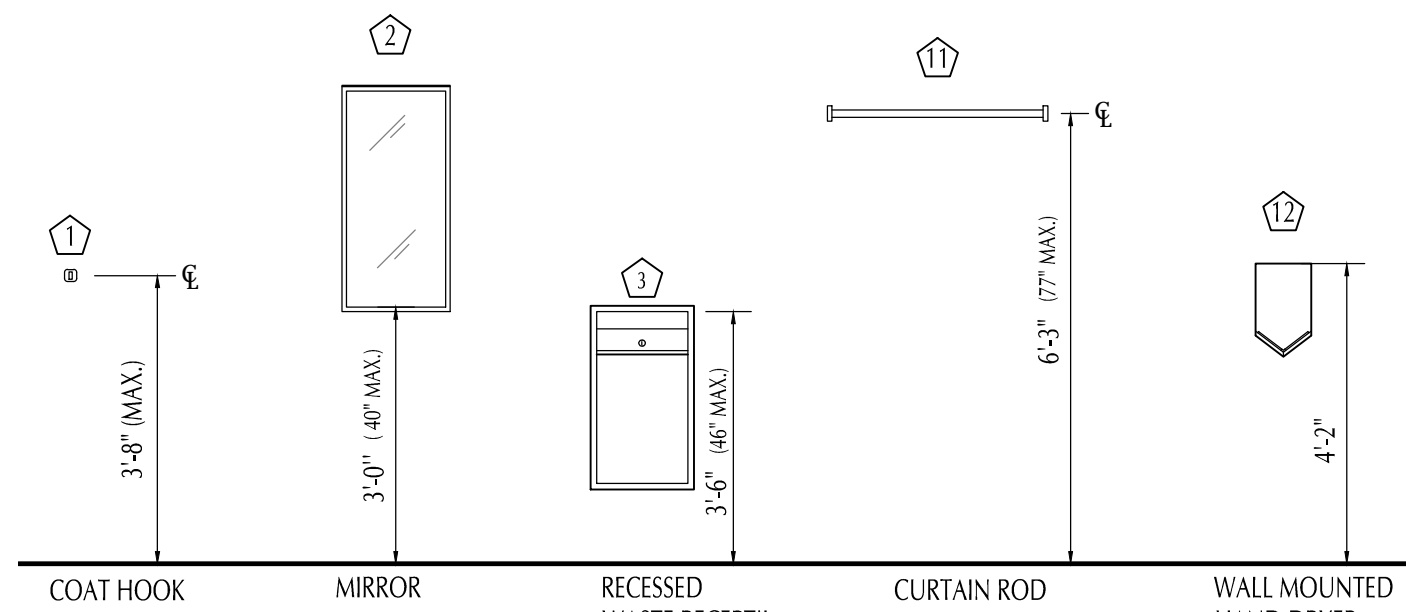
5 MEN'S RESTROOM #112
A601 SCALE: 1/2" = 1'-0" WOMEN'S RESTRM. #111 SIMILAR



6 MEN'S RESTROOM #114
A601 SCALE: 1/2" = 1'-0" WOMEN'S RESTRM. #115 SIMILAR



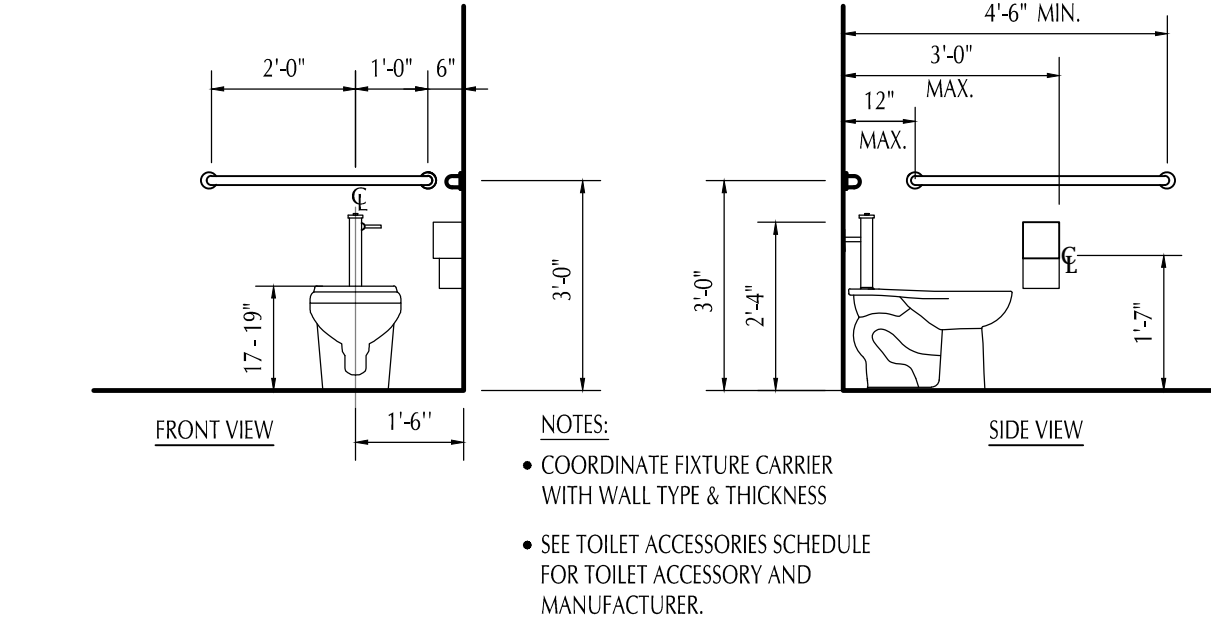
3 BREAKROOM #108
A601 SCALE: 3/4" = 1'-0" TYP. CABINETS



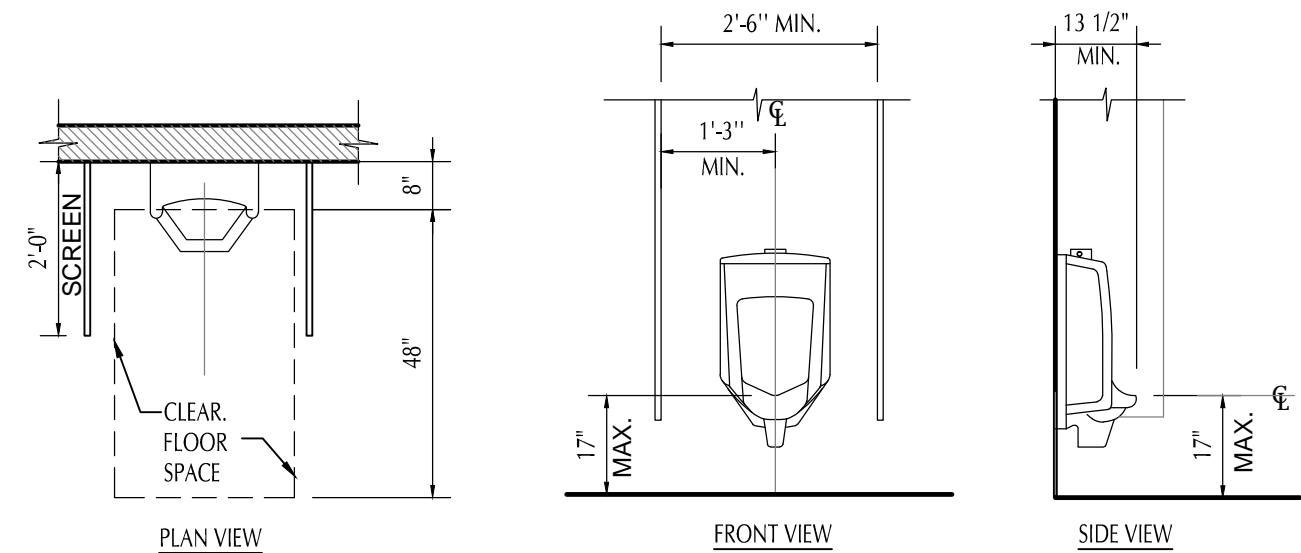
7 A.D.A. TOILET ACCESSORIES CLEARANCE
A601 SCALE: 3/8" = 1'-0"

TOILET ACCESSORIES					
MARK	DESCRIPTION	MFGR.	MODEL NO.	FURNISHED BY	INSTALLED BY
1	COAT HOOK W/ CONCEALED MOUNTING	BOBRICK	B-76717	CONTRACTOR	CONTRACTOR
2	MIRROR 18" x 36"	BOBRICK	B-293 1836	CONTRACTOR	CONTRACTOR
3	RECESSED WASTE RECEPTACLES	BOBRICK	B-3644	CONTRACTOR	CONTRACTOR
4	SEAT COVER DISPENSER	NOT USED		PROVIDED BY OWNER'S VENDOR	
5	TOILET PAPER DISPENSER	NOT USED		PROVIDED BY OWNER'S VENDOR	
6	SOAP DISPENSER	NOT USED		PROVIDED BY OWNER'S VENDOR	
7	1 1/2" DIA. H.C. GRAB BAR (36" LG.)	BOBRICK	B-5806 x 36	CONTRACTOR	CONTRACTOR
8	1 1/2" DIA. H.C. GRAB BAR (42" LG.)	BOBRICK	B-5806 x 42	CONTRACTOR	CONTRACTOR
9	WALL MOUNTED HORIZONTAL S.S. CHANGING STATION	NOT USED		PROVIDED BY OWNER'S VENDOR	
10	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	NOT USED		PROVIDED BY OWNER'S VENDOR	
11	SHOWER CURTAIN ROD W/ CONCEALED MOUNTING	BOBRICK	B-6047	CONTRACTOR	CONTRACTOR
12	HAND DRYER	DYSON	AIRBLADE V 307174-0	CONTRACTOR	CONTRACTOR
13	1 1/2" DIA. 24" GRAB BAR	BOBRICK	B-5806 x 24	CONTRACTOR	CONTRACTOR
14	1 1/2" DIA. 48" GRAB BAR	BOBRICK	B-5806 x 48	CONTRACTOR	CONTRACTOR

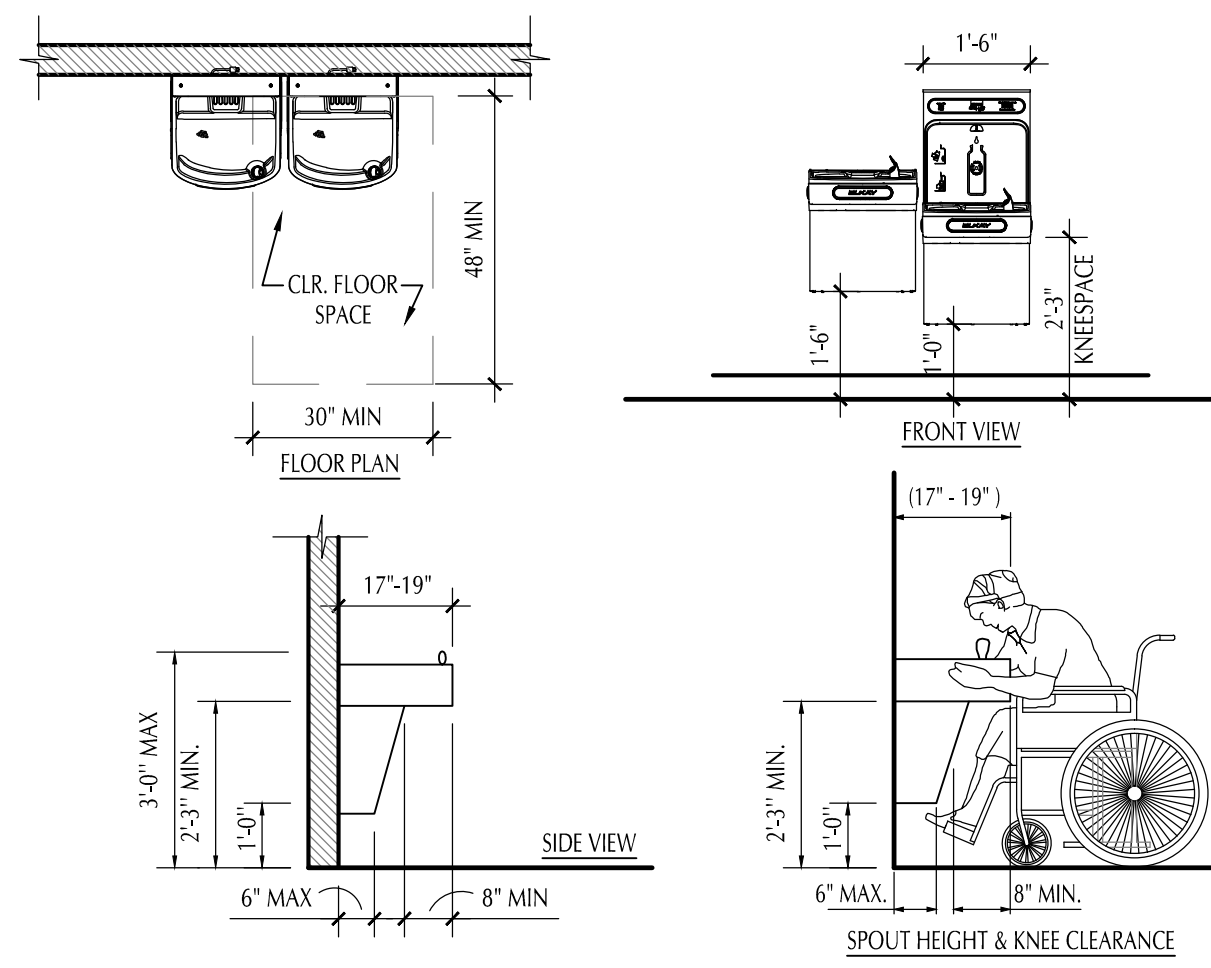
NOTE: MOUNT PER A.D.A. REQUIREMENTS AND MANUFACTURER SPECIFICATIONS. (SEE FLOOR PLANS FOR OTHER ACCESSORIES LOCATIONS)



9 A.D.A. FLUSH WC
A601 SCALE: 3/8" = 1'-0" (TYPICAL)



10 A.D.A. URINAL
A601 SCALE: 3/8" = 1'-0" (TYPICAL)



11 A.D.A. DRINK FOUNTAIN
A601 SCALE: 3/8" = 1'-0" (TYPICAL)

REVISIONS

D

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PUBLIC WORKS
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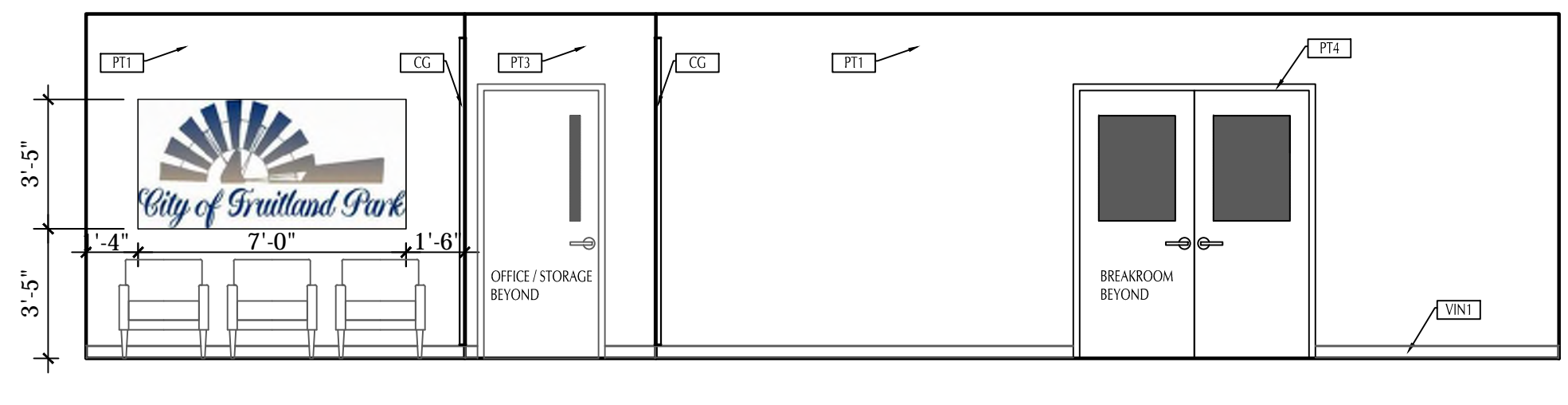
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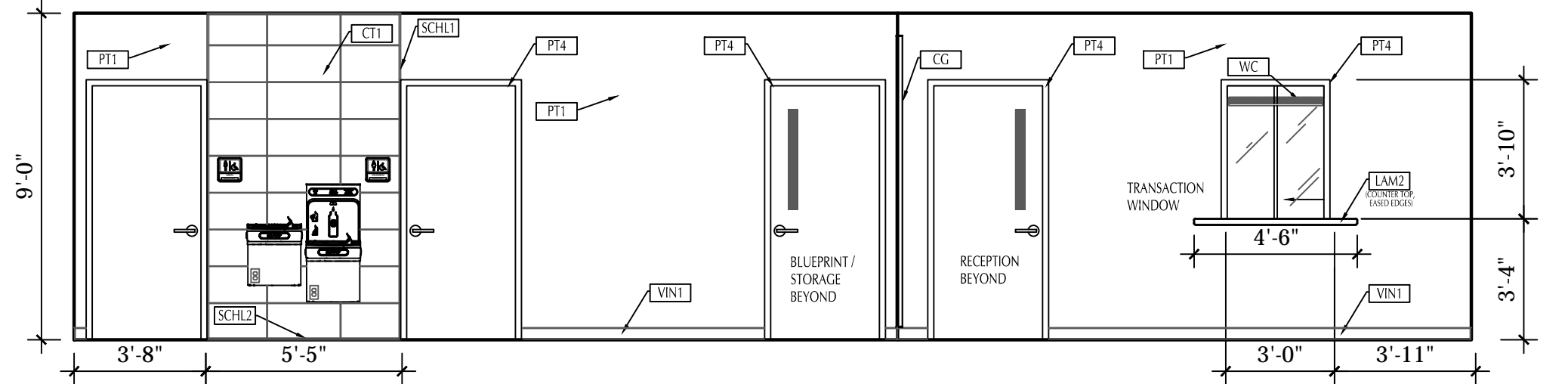
ENLARGED
TOILET RM.
PLANS / DETAILS
A601

ISSUE DATE 7-12-22

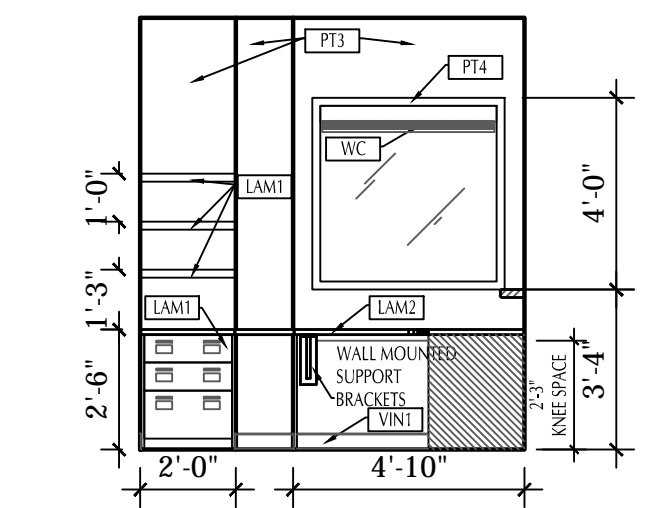
JOB #: GC-20-033



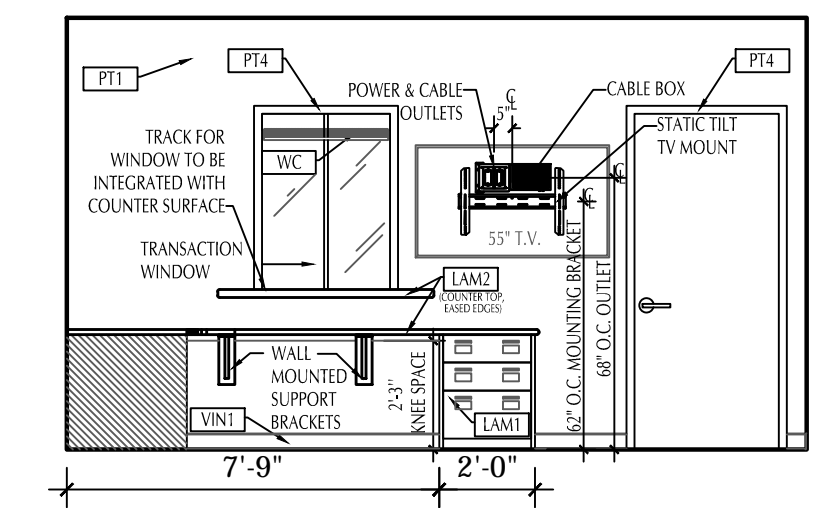
1 LOBBY / CORRIDOR
A602 SCALE: 1/4" = 1'-0"



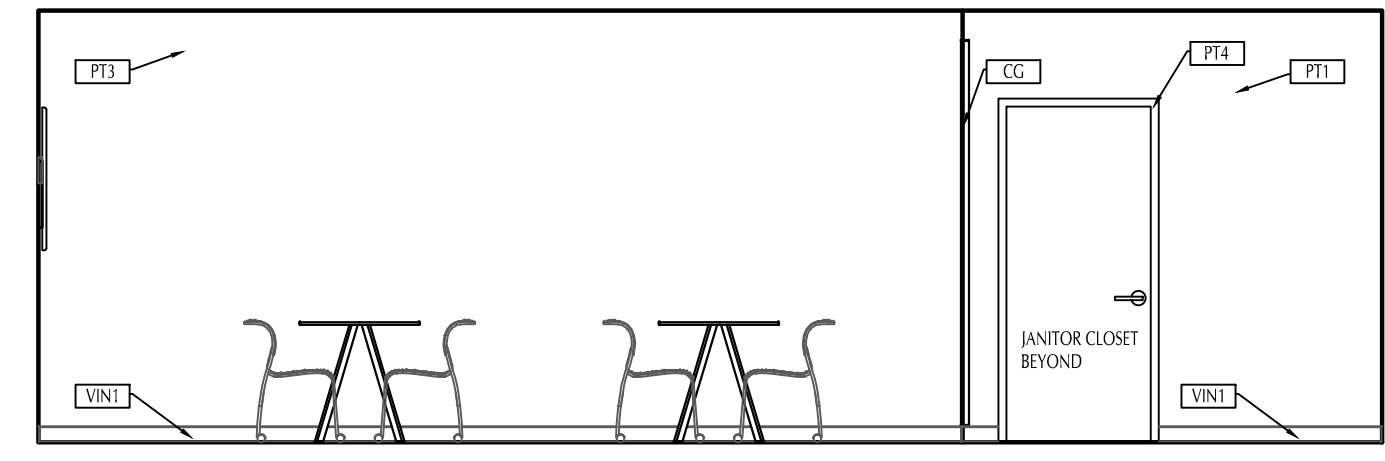
2 LOBBY / CORRIDOR
A602 SCALE: 1/4" = 1'-0"



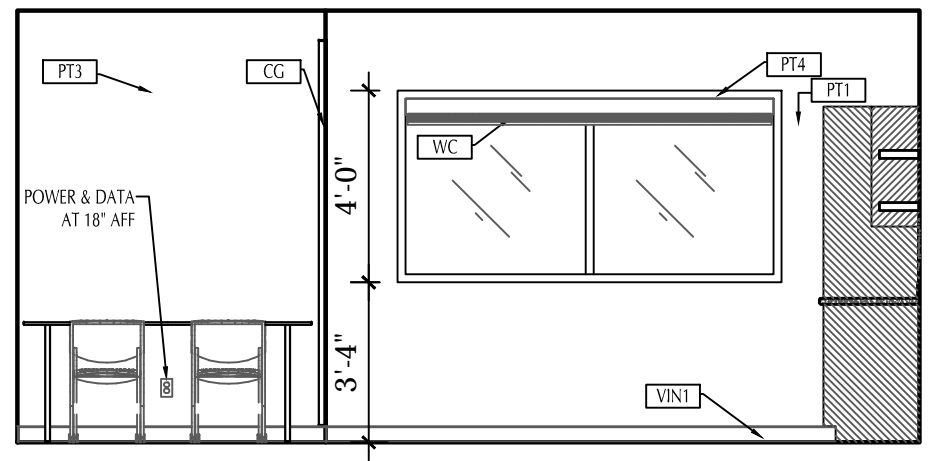
3 RECEPTION
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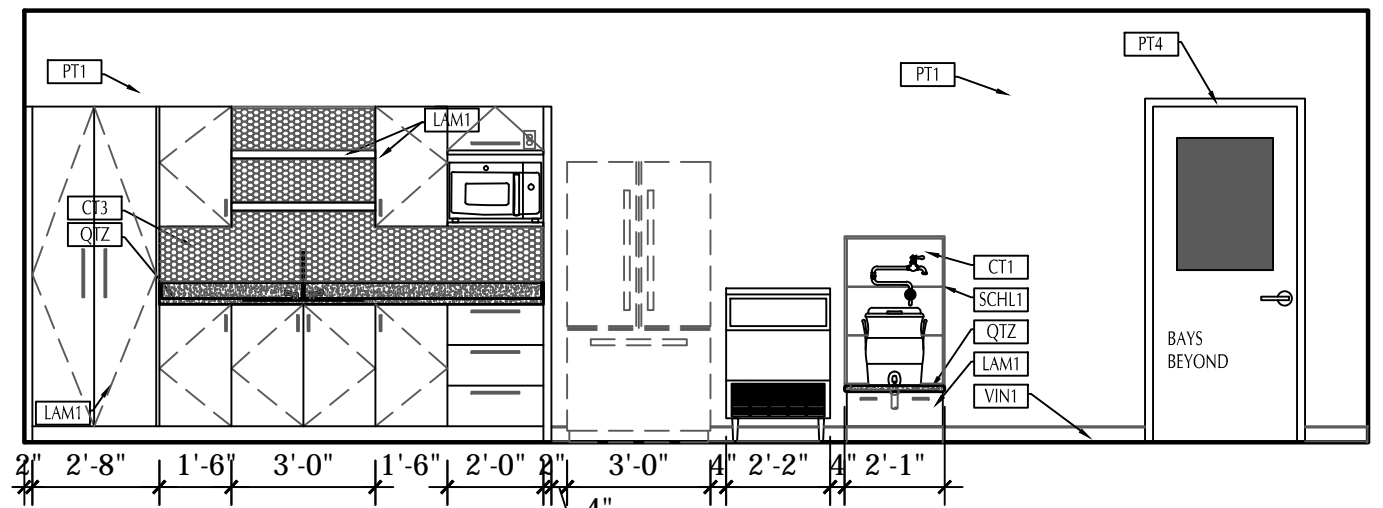
4 RECEPTION
A602 SCALE: 1/4" = 1'-0"



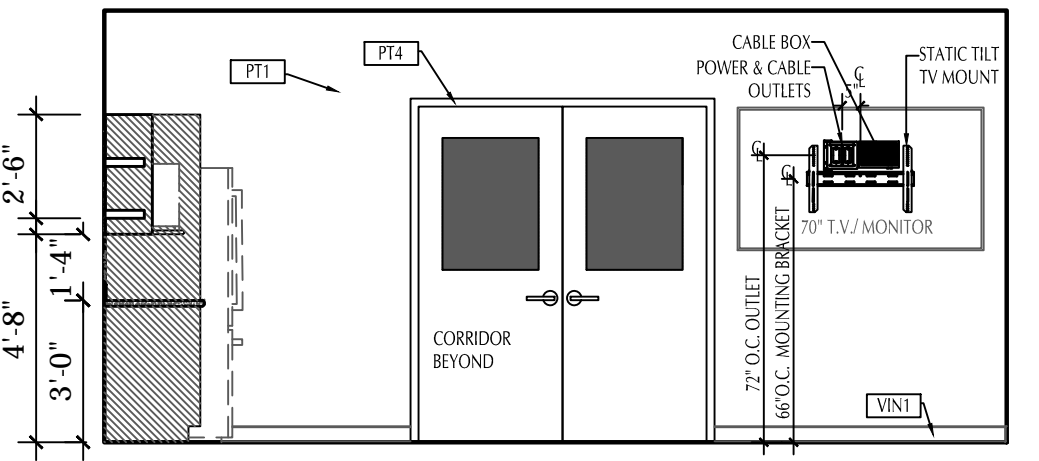
5 BREAKROOM
A602 SCALE: 1/4" = 1'-0"



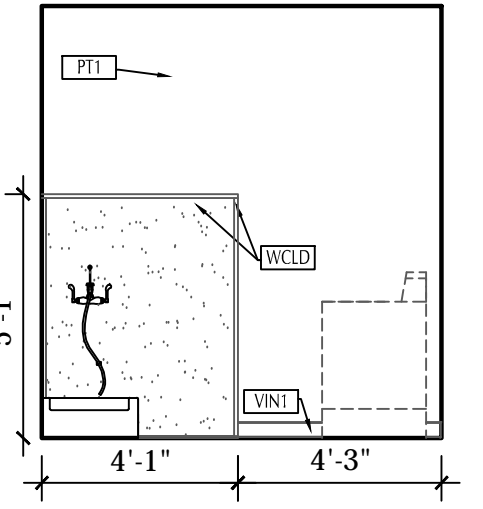
6 BREAKROOM
A602 SCALE: 1/4" = 1'-0"



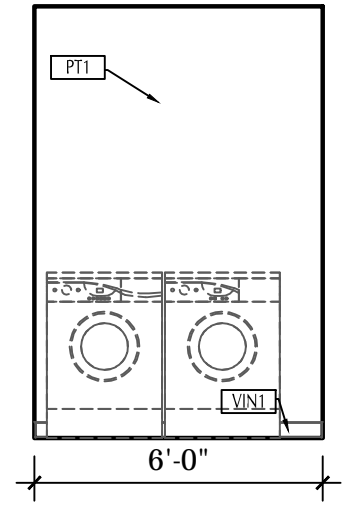
7 BREAKROOM
A602 SCALE: 1/4" = 1'-0"



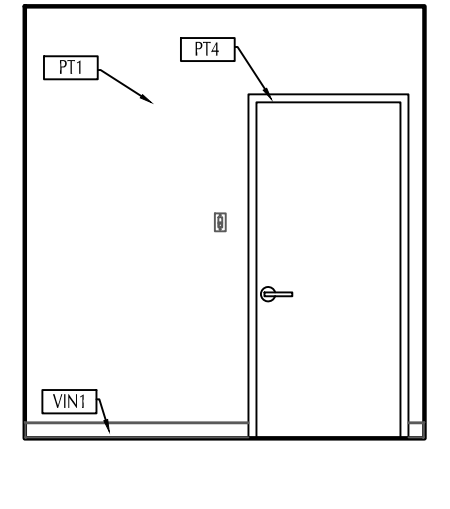
8 BREAKROOM
A602 SCALE: 1/4" = 1'-0"



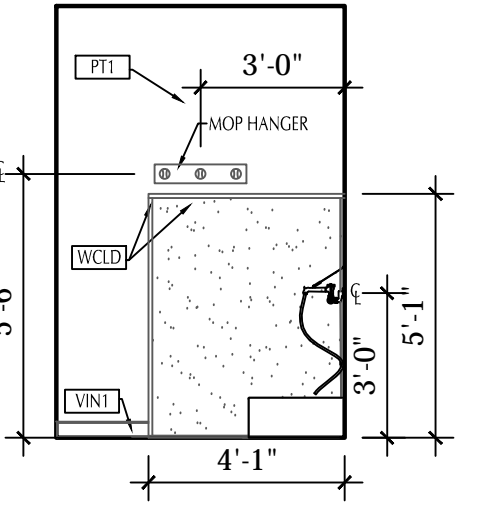
9 JANITOR
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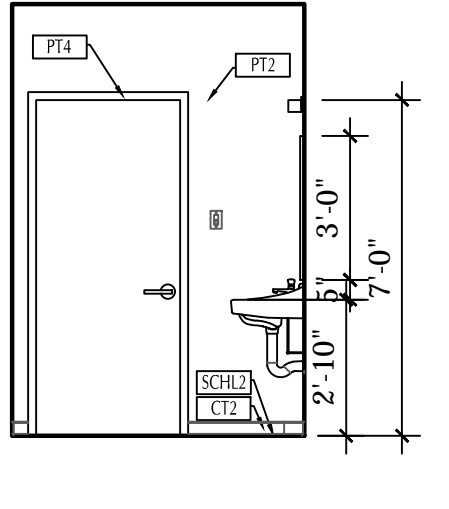
10 JANITOR
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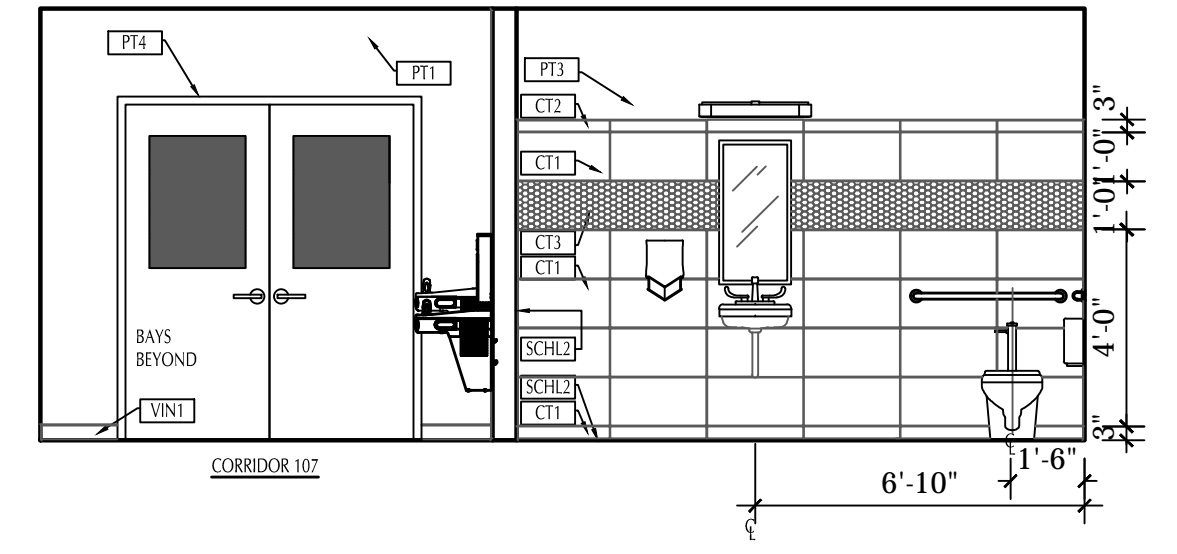
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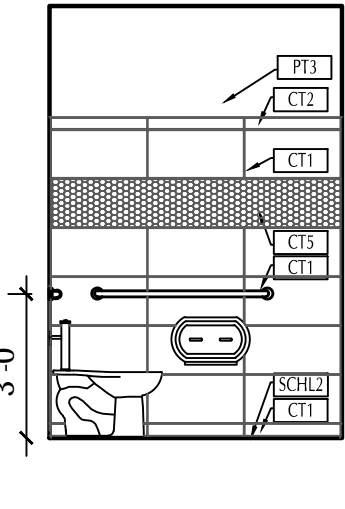
12 JANITOR
A602 SCALE: 1/4" = 1'-0"



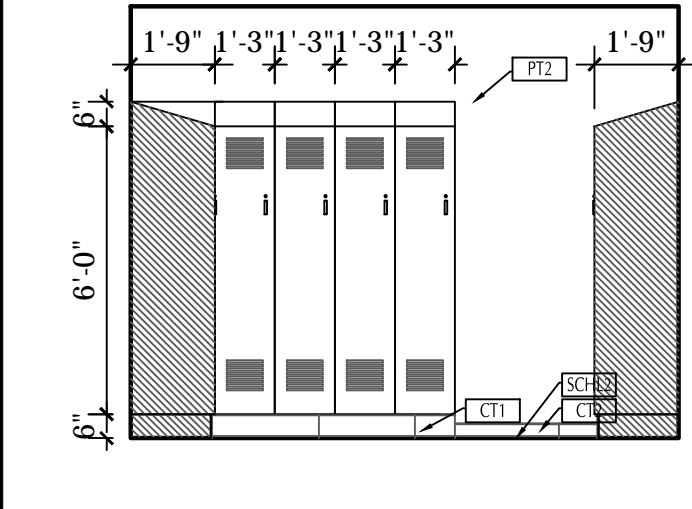
13 WOMENS 111
A602 SCALE: 1/4" = 1'-0"



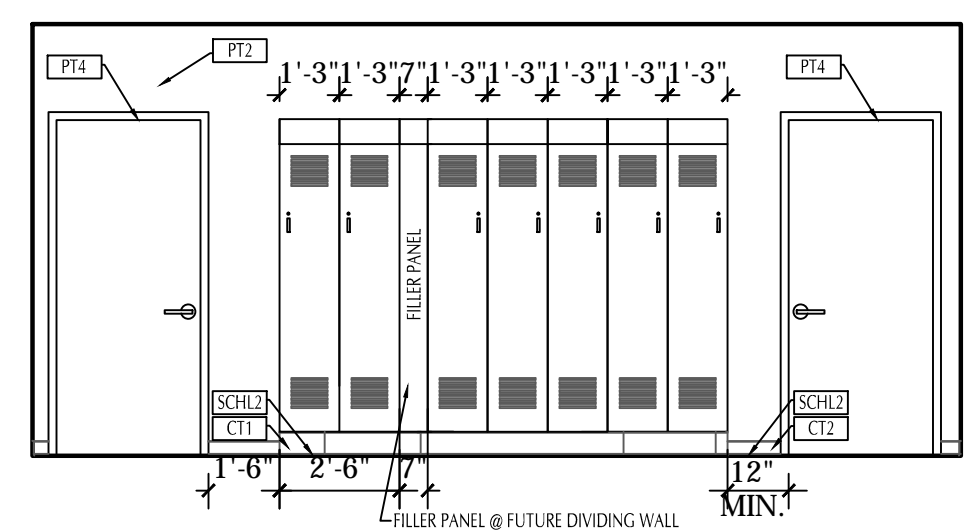
14 WOMENS R.R. 111
A602 SCALE: 1/4" = 1'-0"



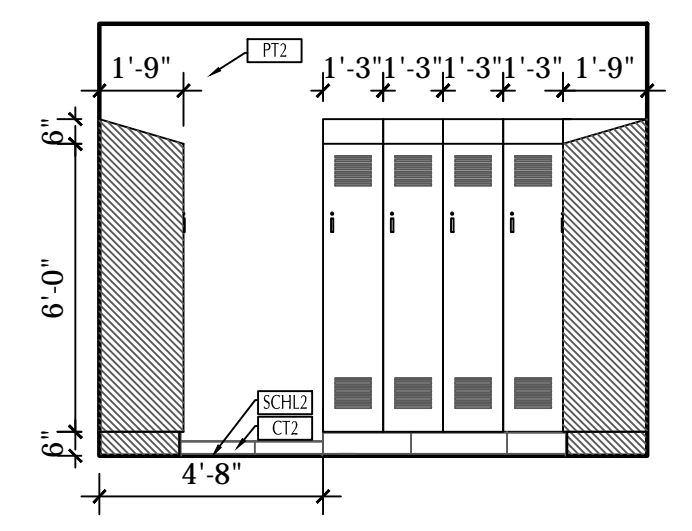
15 WOMENS 111
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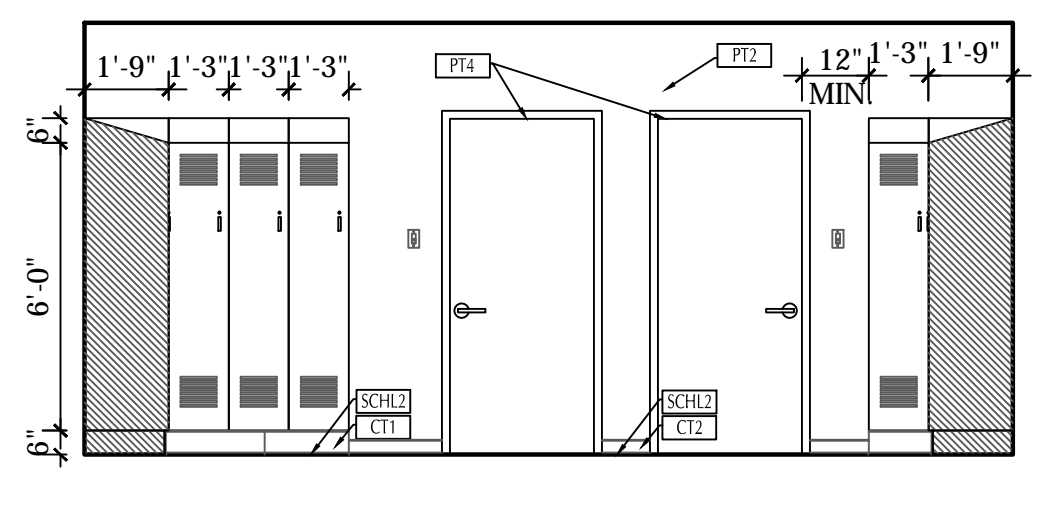
16 LOCKER RM.
A602 SCALE: 1/4" = 1'-0"



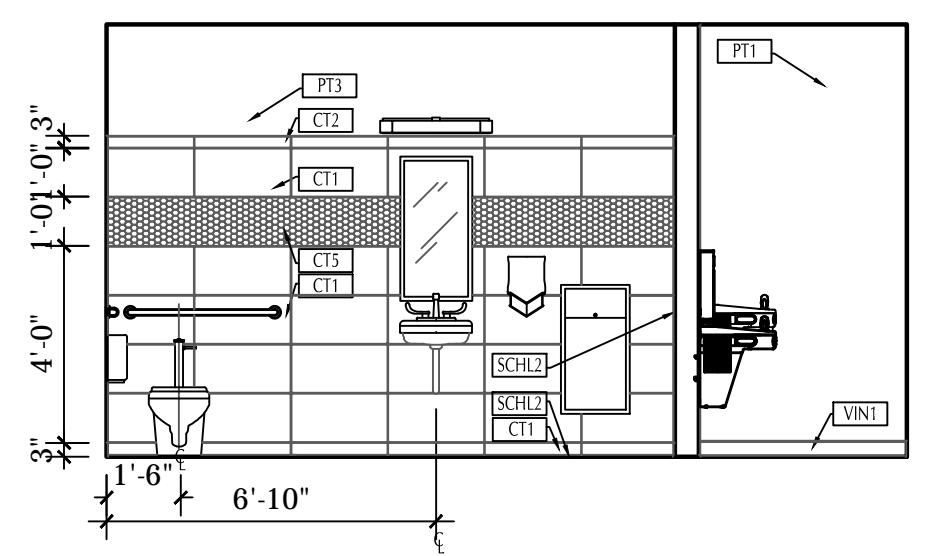
17 LOCKER RM.
A602 SCALE: 1/4" = 1'-0"



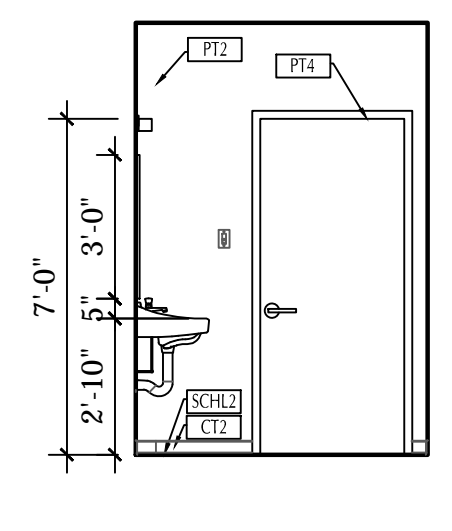
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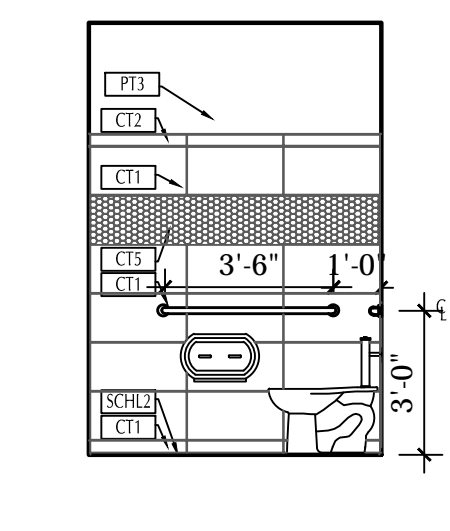
19 LOCKER RM.
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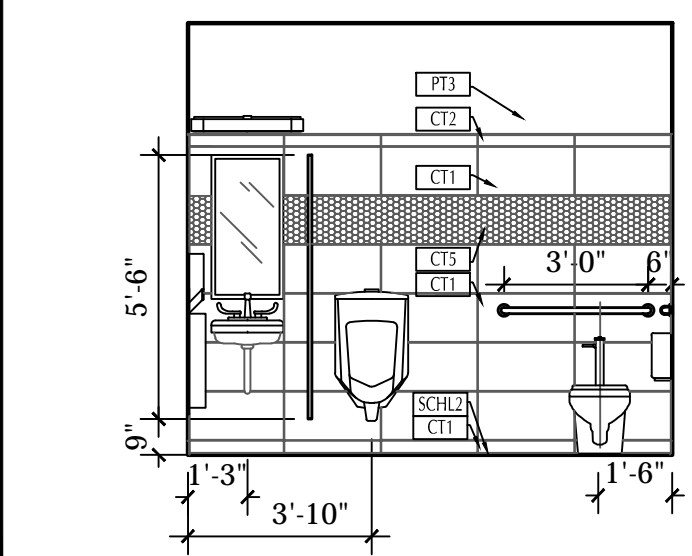
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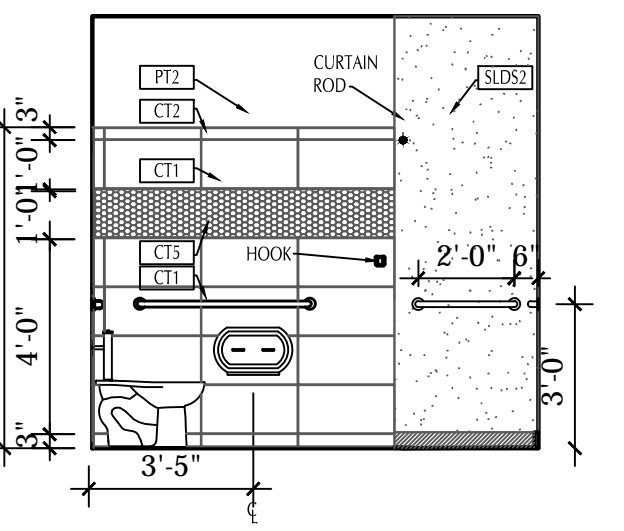
21 MENS 112
A602 SCALE: 1/4" = 1'-0"



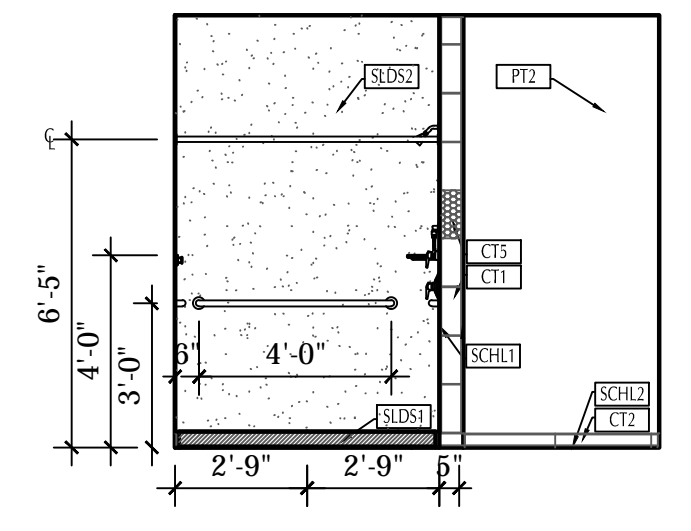
22 MENS 112
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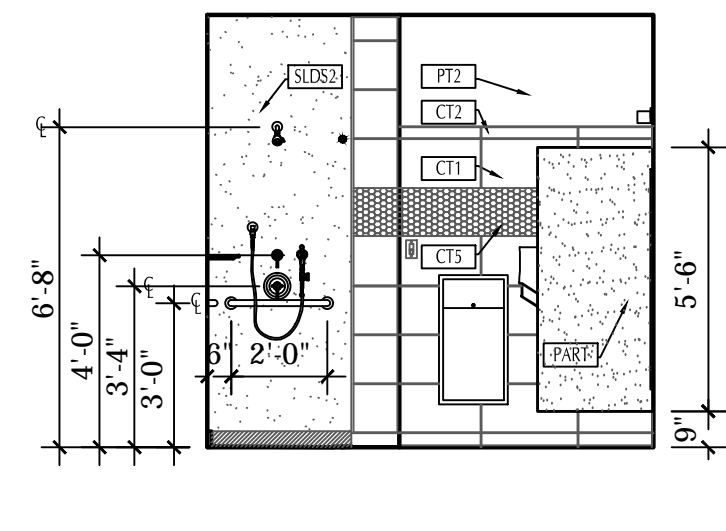
23 MENS 114
A602 SCALE: 1/4" = 1'-0"



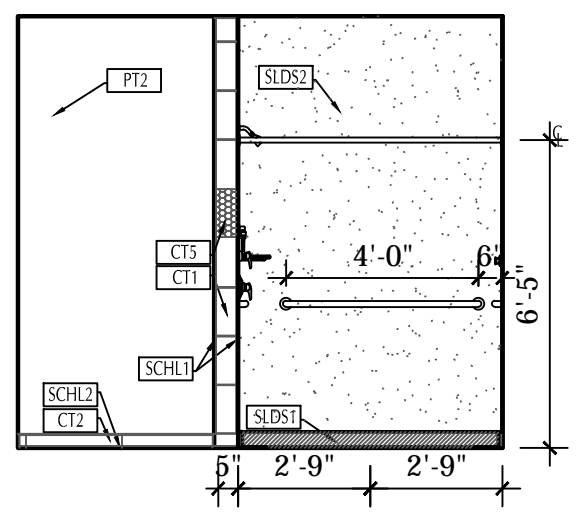
24 MENS R.R. 114
A602 SCALE: 1/4" = 1'-0"



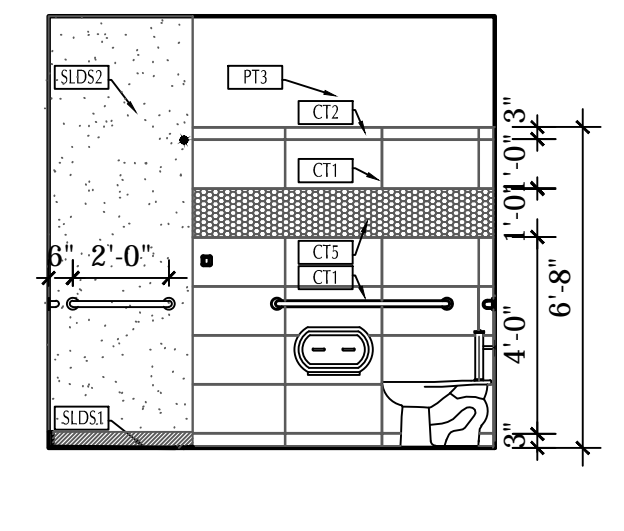
25 MENS R.R. 114
A602 SCALE: 1/4" = 1'-0"



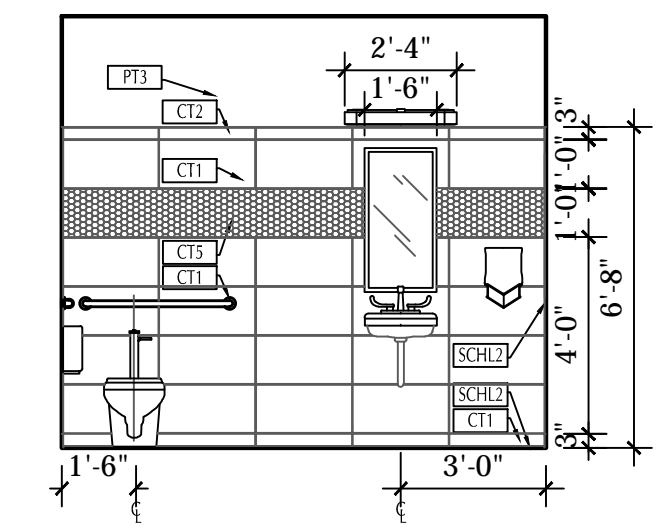
26 MENS R.R. 114
A602 SCALE: 1/4" = 1'-0"



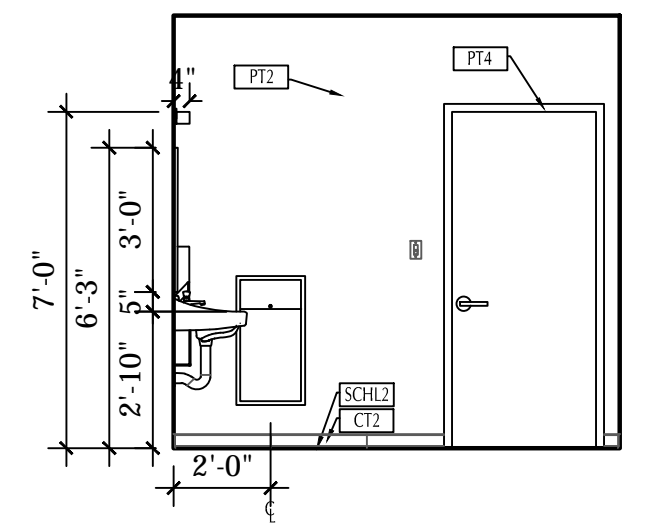
27 WOMENS 115
A602 SCALE: 1/4" = 1'-0"



28 WOMENS 115
A602 SCALE: 1/4" = 1'-0"



29 WOMENS 115
A602 SCALE: 1/4" = 1'-0"



30 WOMENS 115
A602 SCALE: 1/4" = 1'-0"

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D

C

B

A

SIGN DATE

CONSTRUCTION DOCUMENTS

INTERIOR ELEVATIONS

A602

ISSUE DATE

7-12-22

JOB #

GC-20-033

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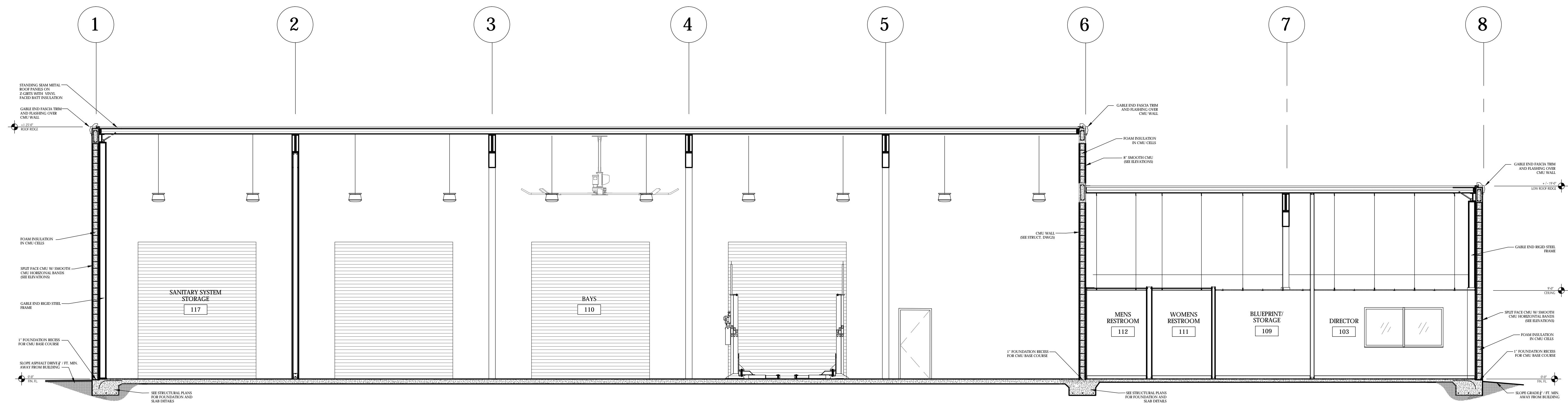
THE LAW

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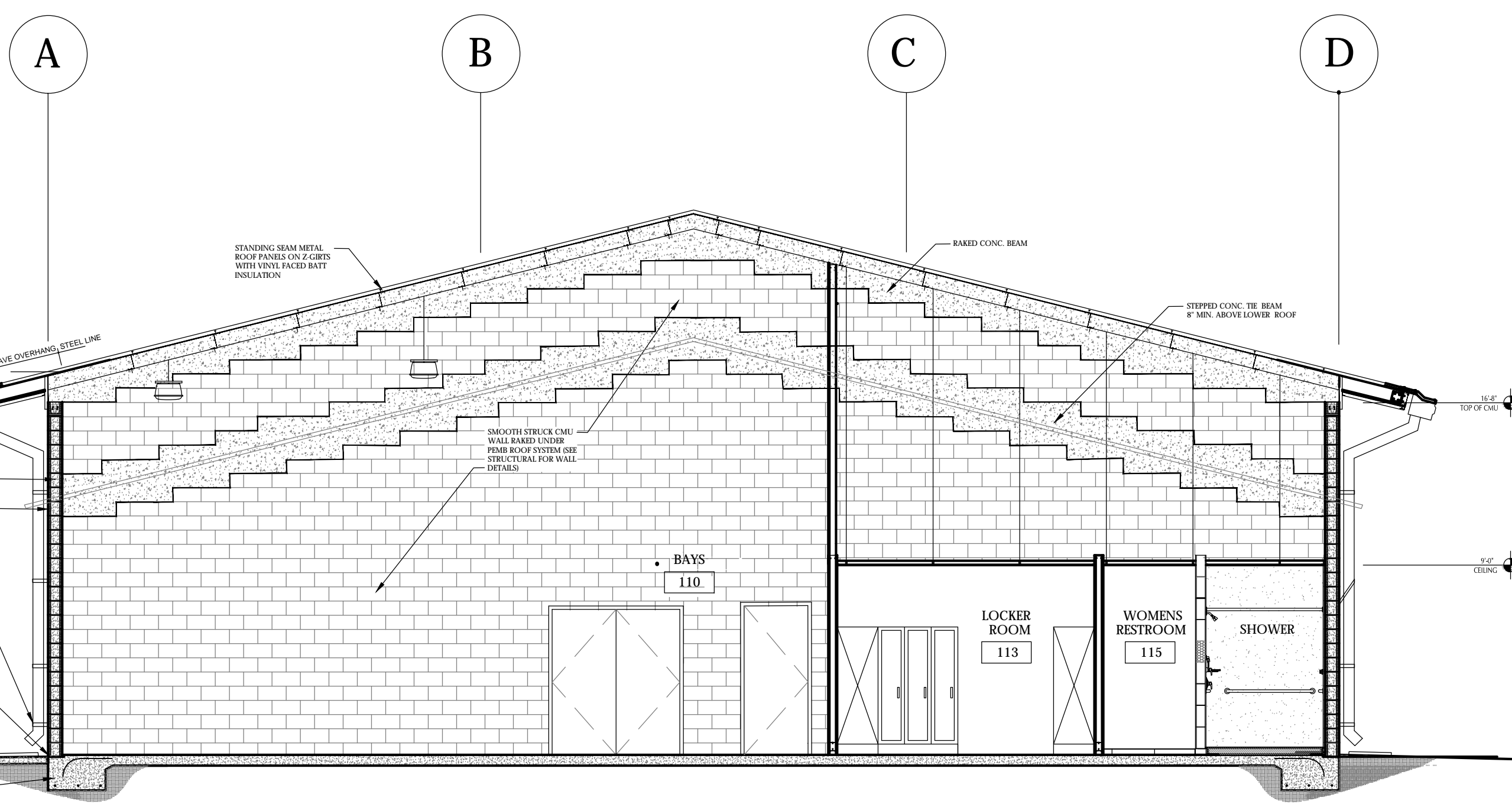
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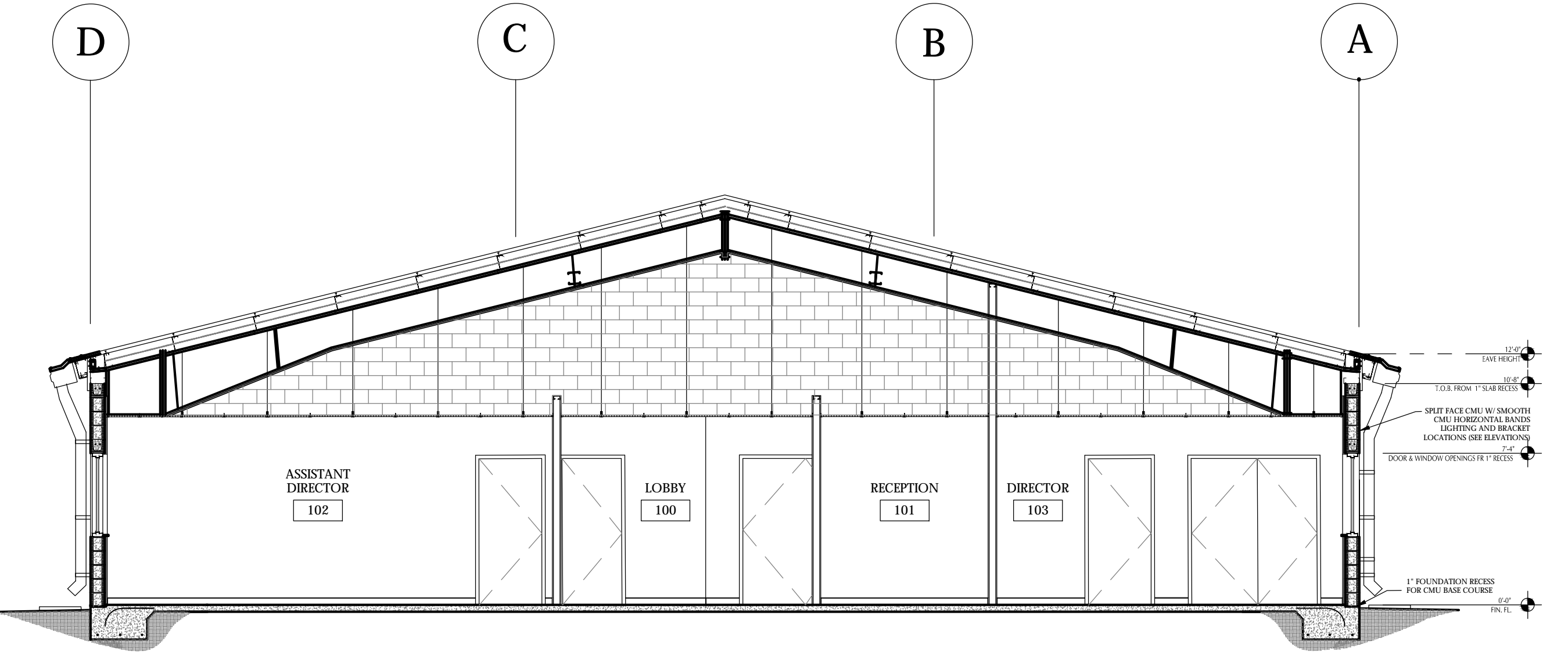
4



1 BUILDING SECTION
 A701 SCALE: 3/16" = 1'-0"



2 BUILDING SECTION
 A701 SCALE: 3/16" = 1'-0"



3 BUILDING SECTION
 A701 SCALE: 3/16" = 1'-0"

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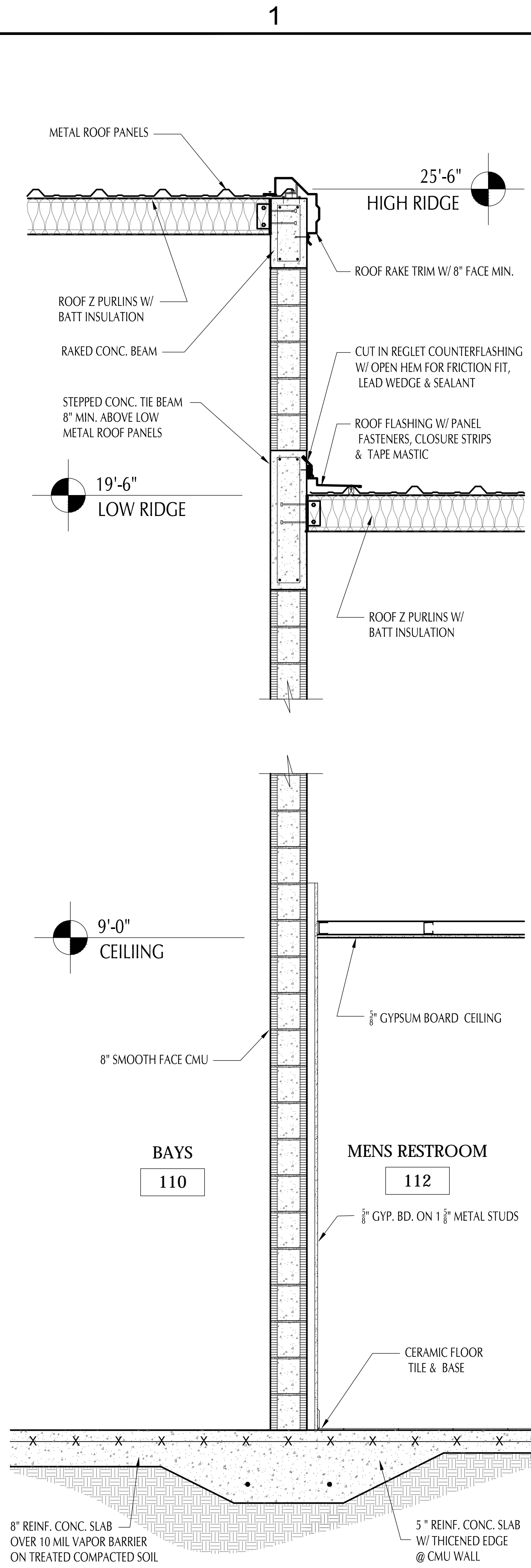
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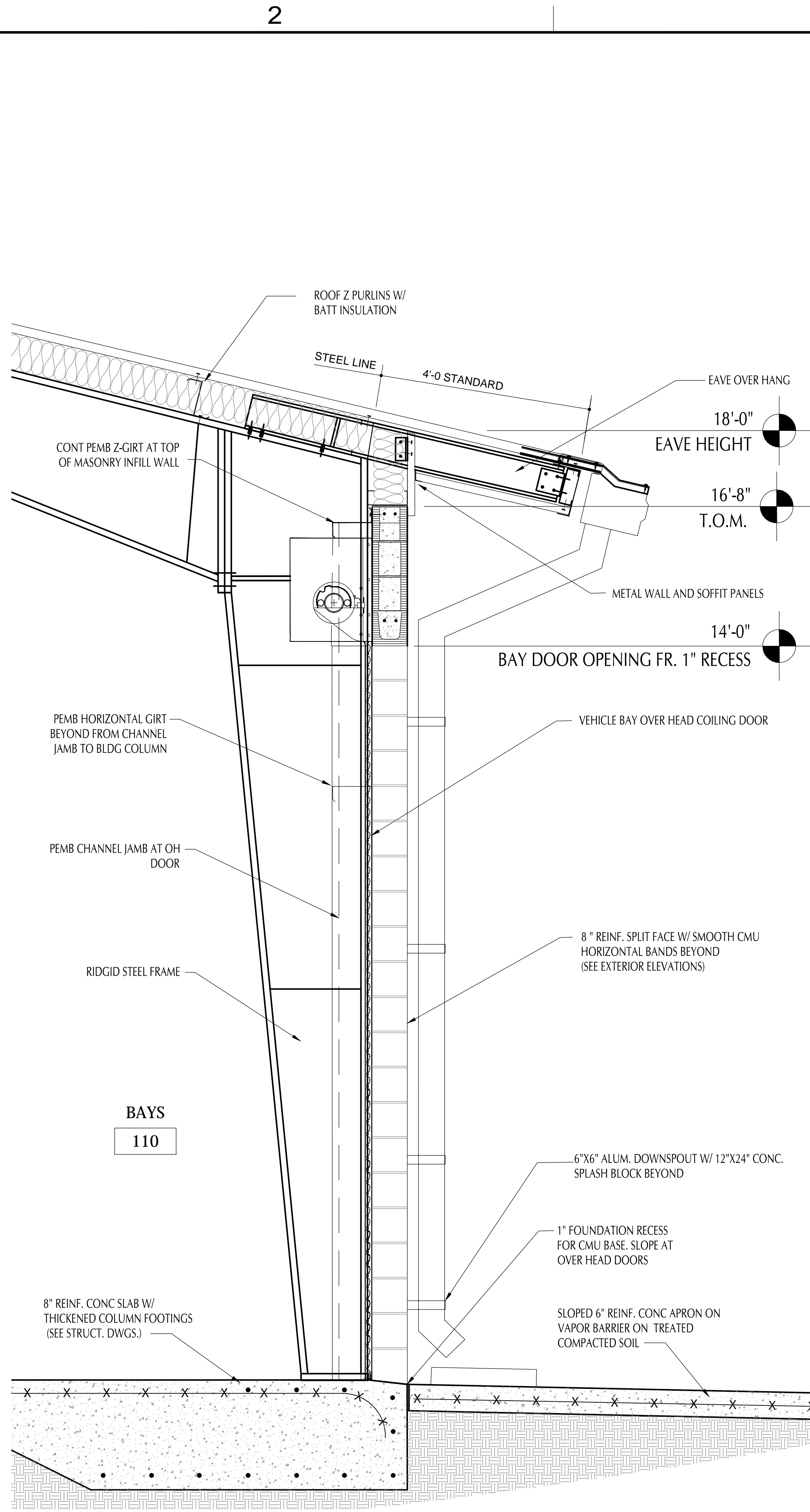
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BUILDING SECTION
A701
 ISSUE DATE 7-12-22

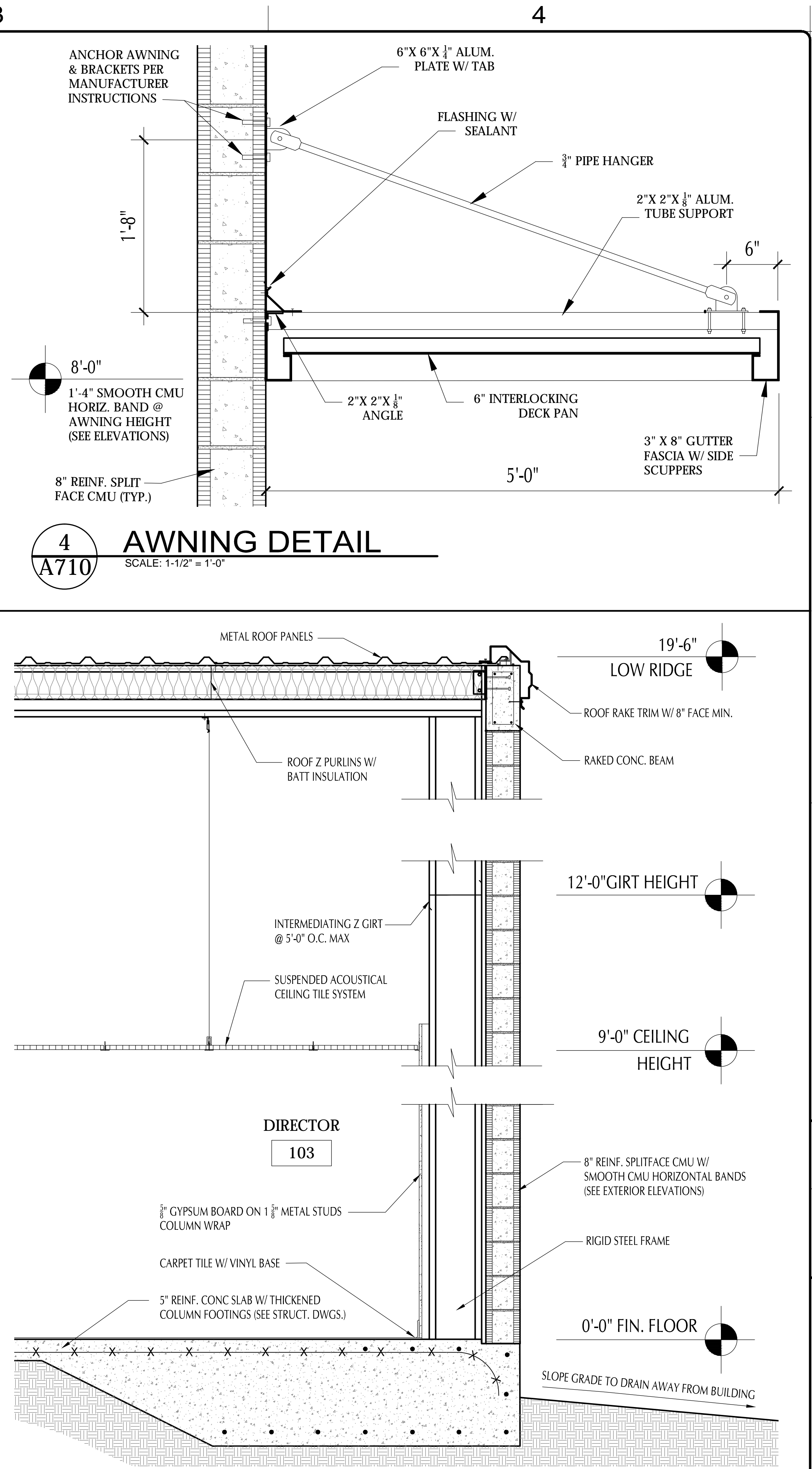
JOB #: GC-20-033



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



2 WALL SECTION @ VEHICLE DOOR
SCALE: 3/4" = 1'-0"



3 WALL SECTION AT LOW GABLE END
SCALE: 3/4" = 1'-0"

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

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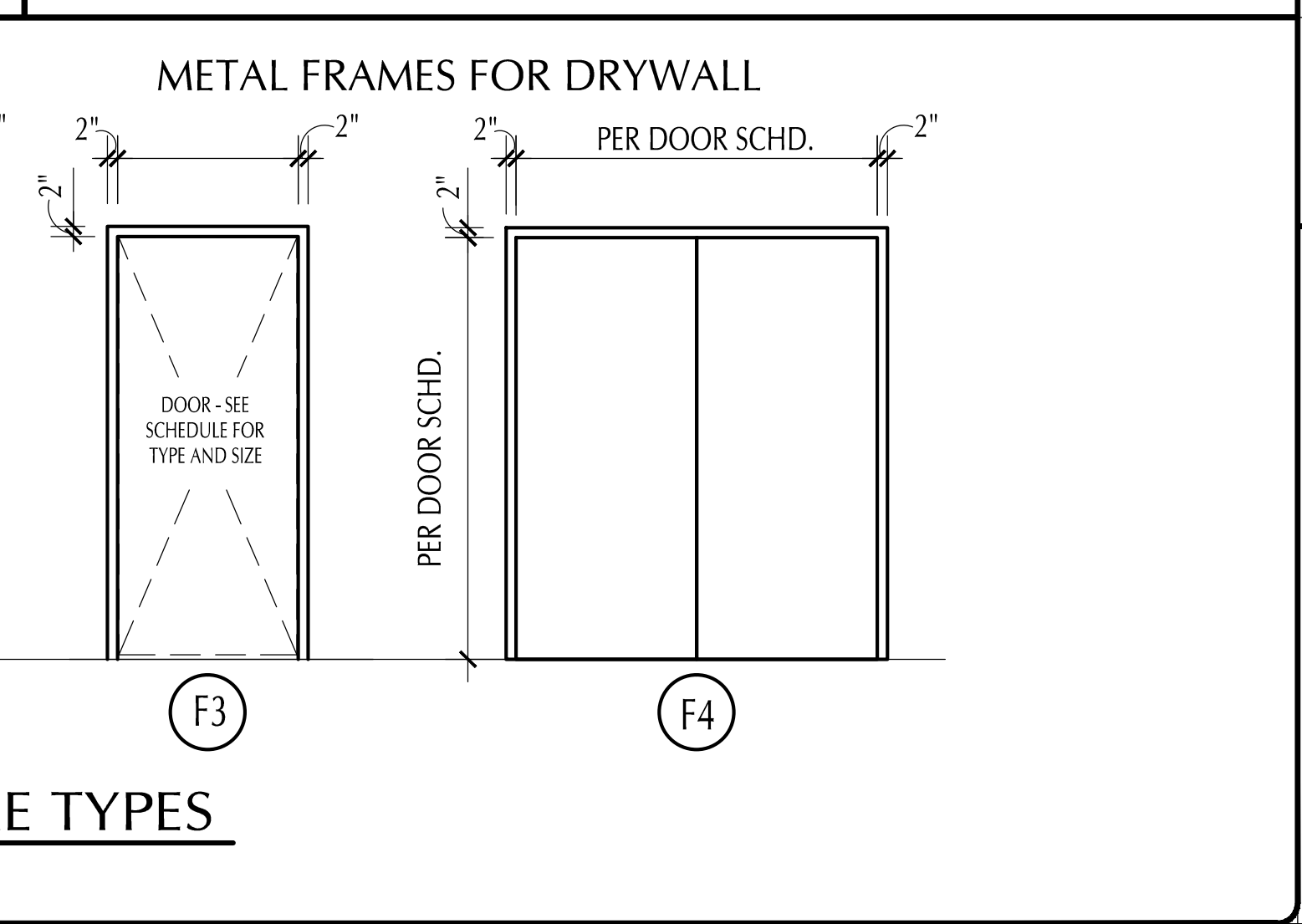
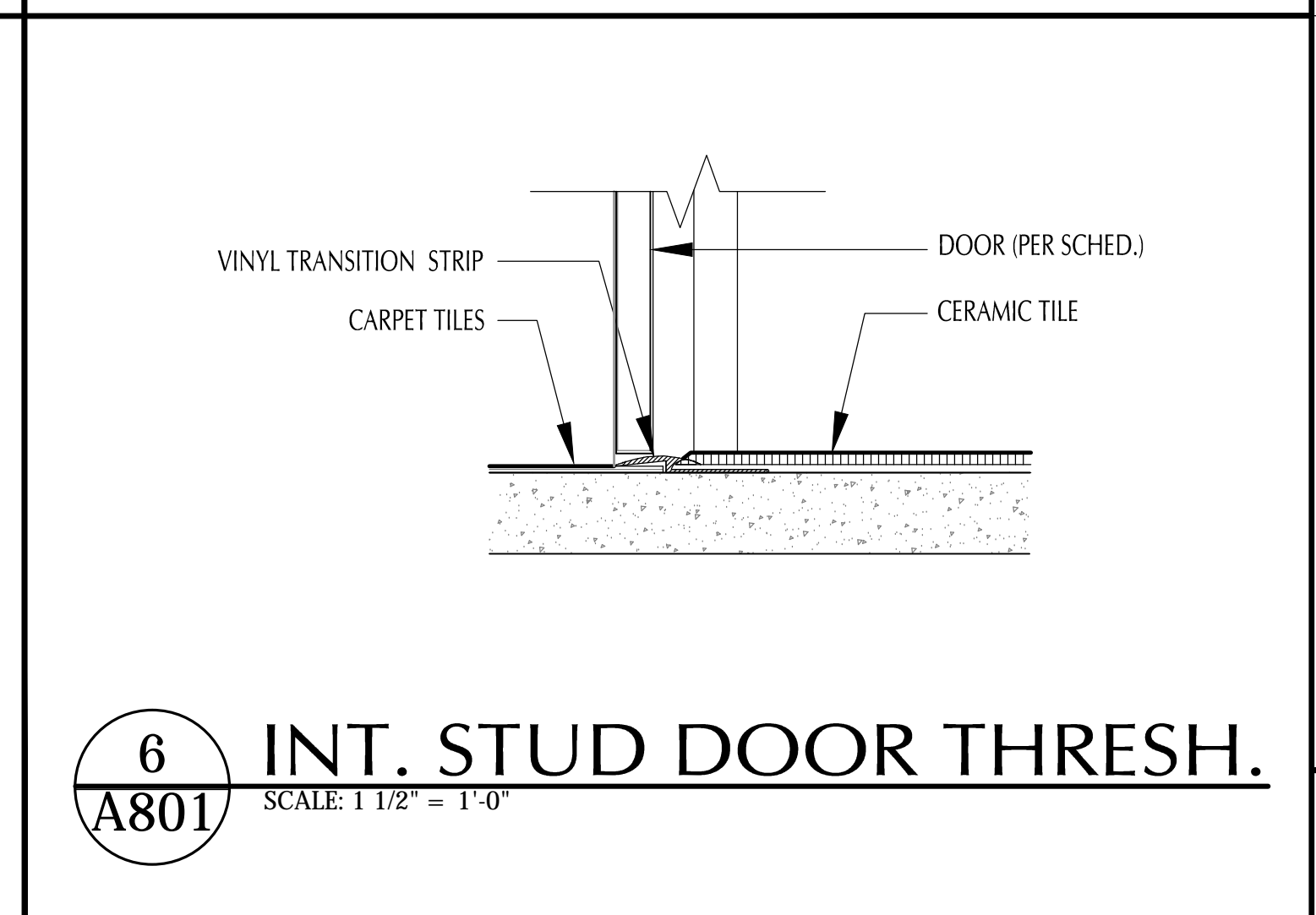
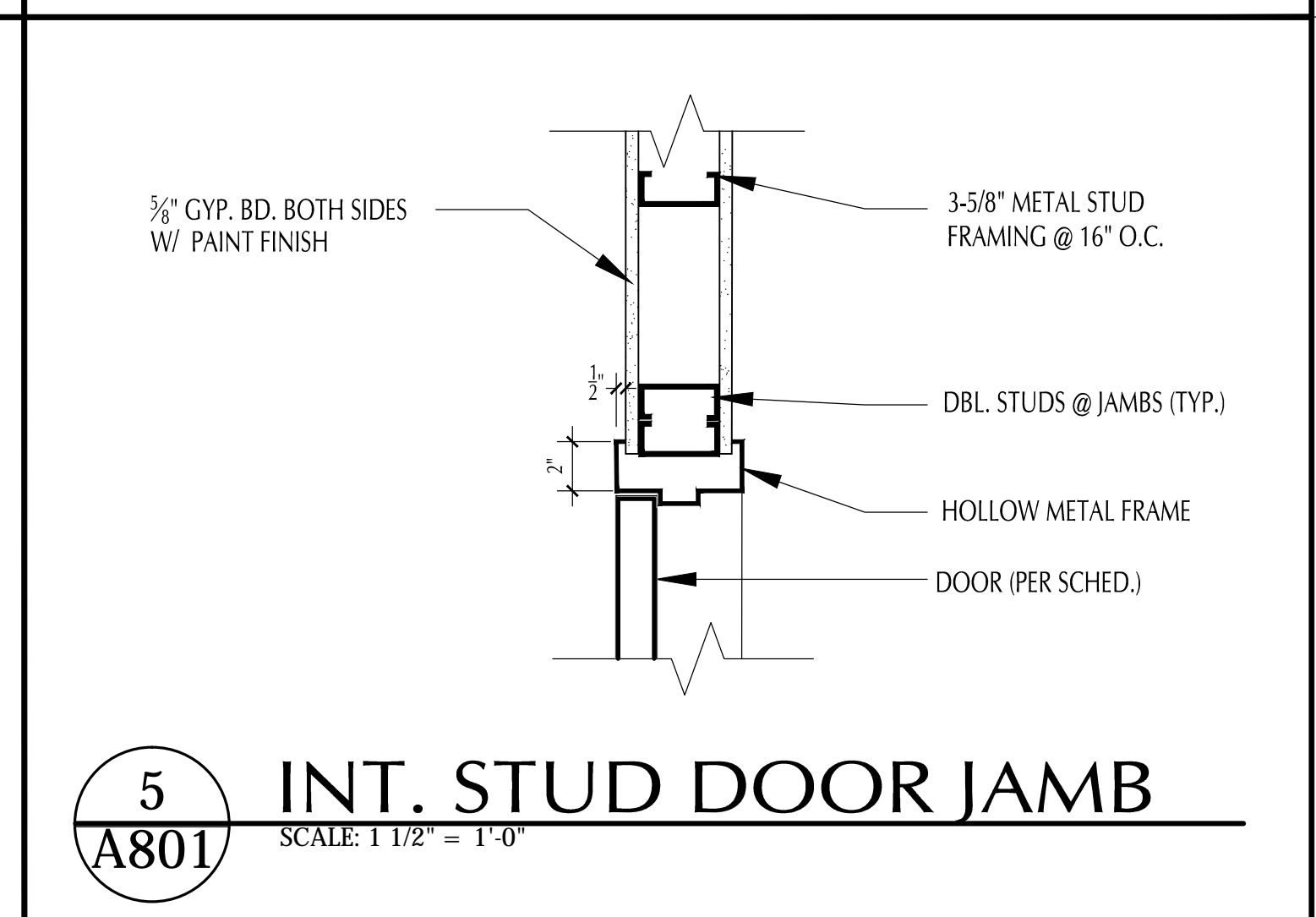
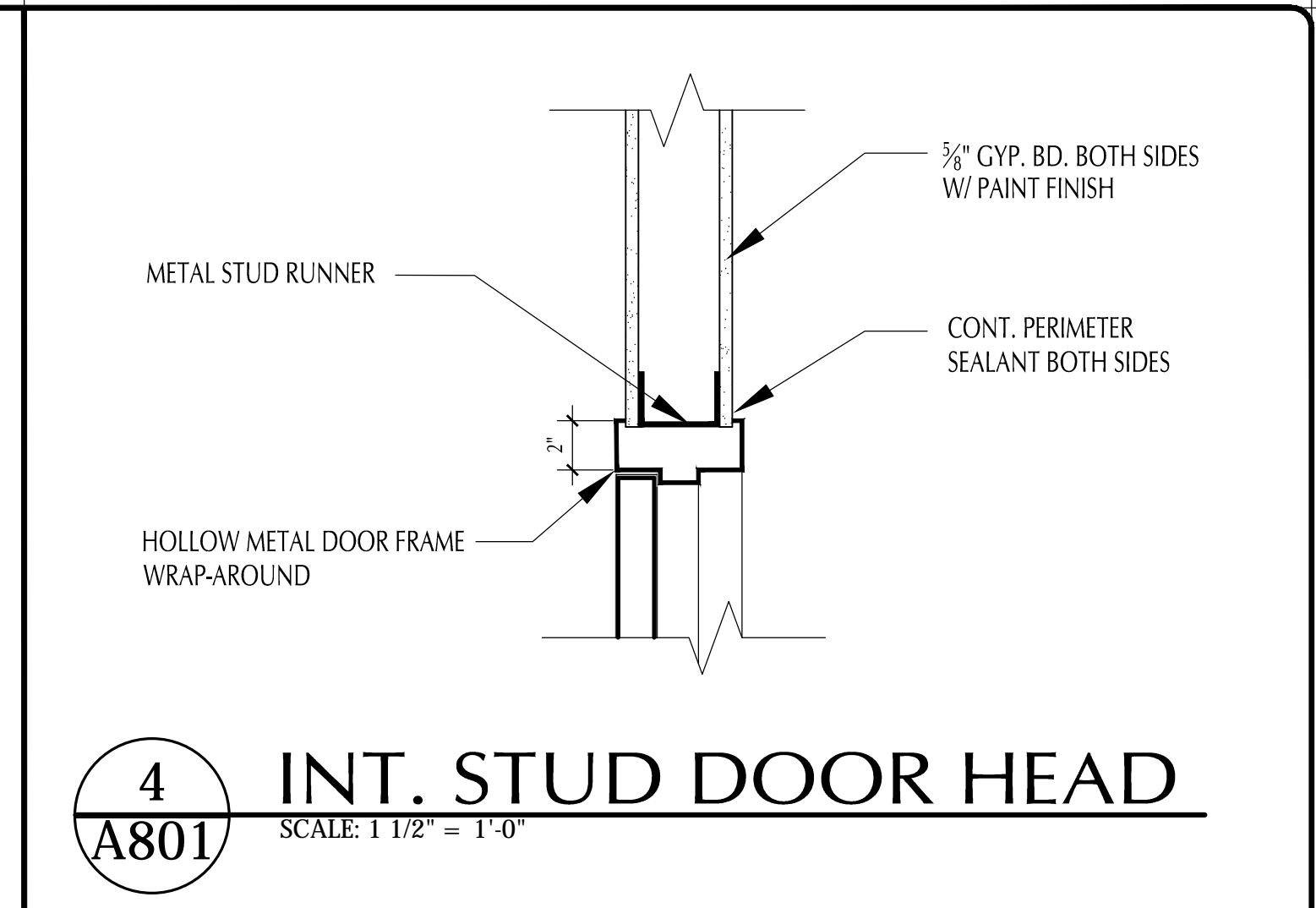
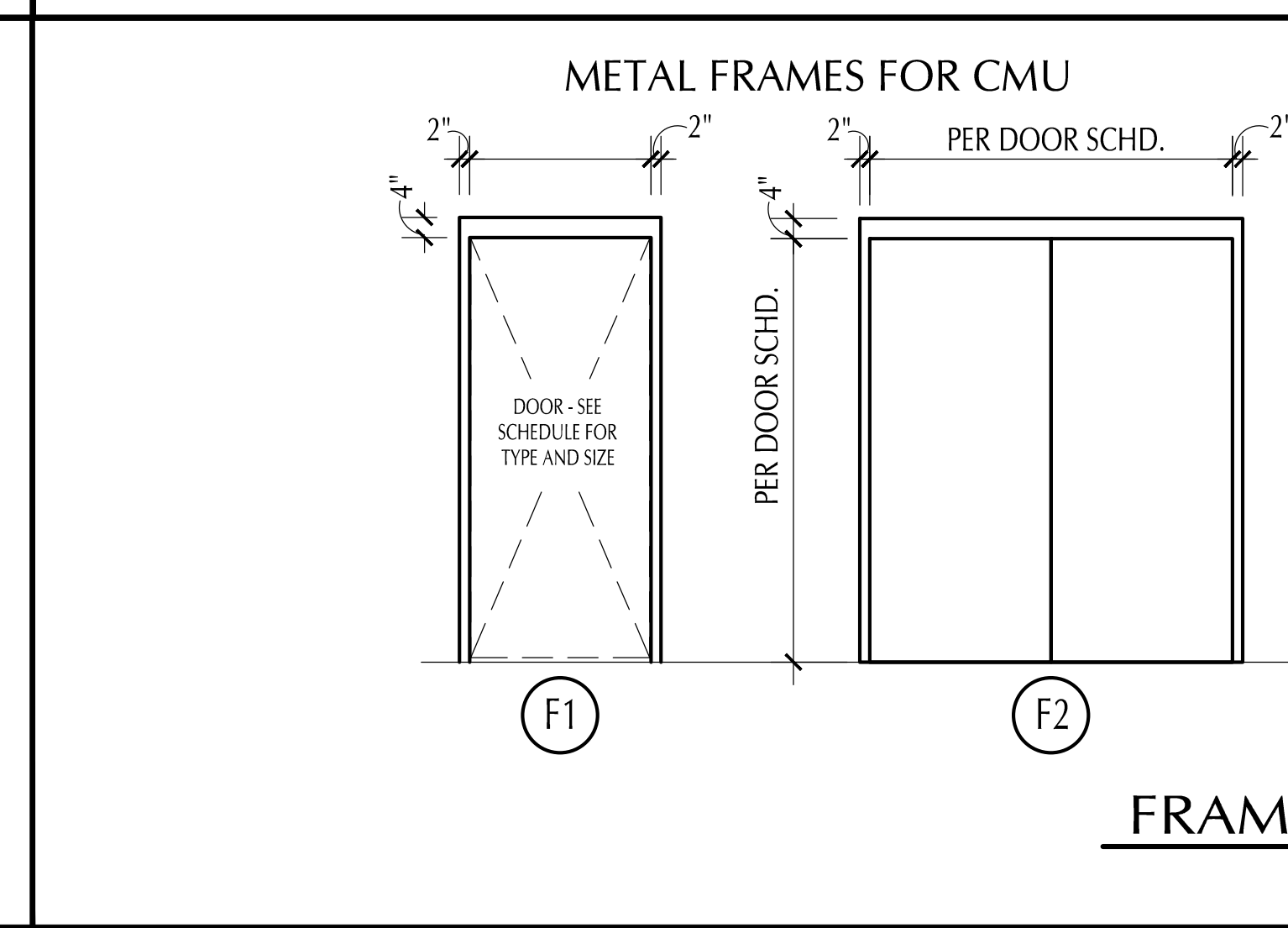
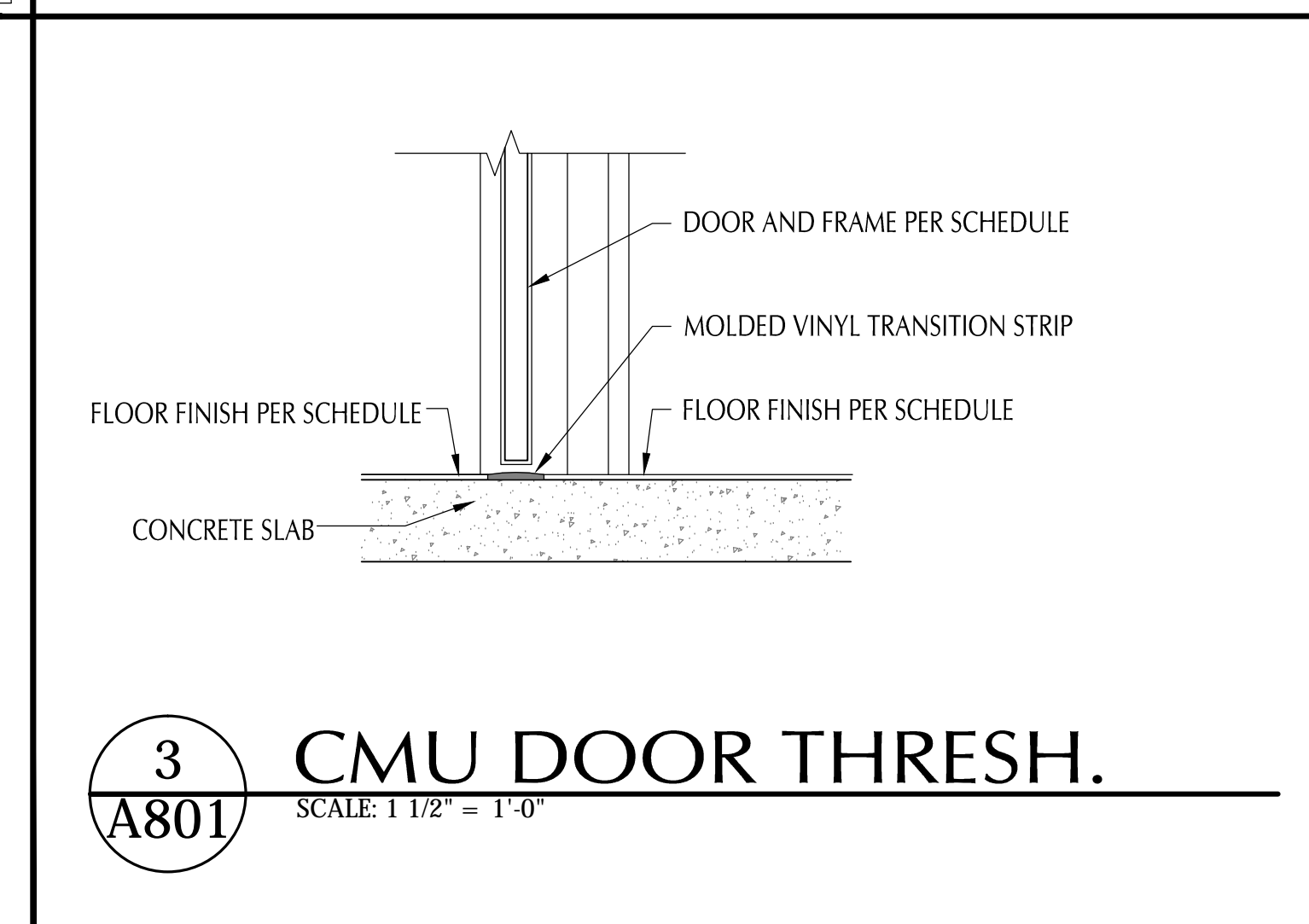
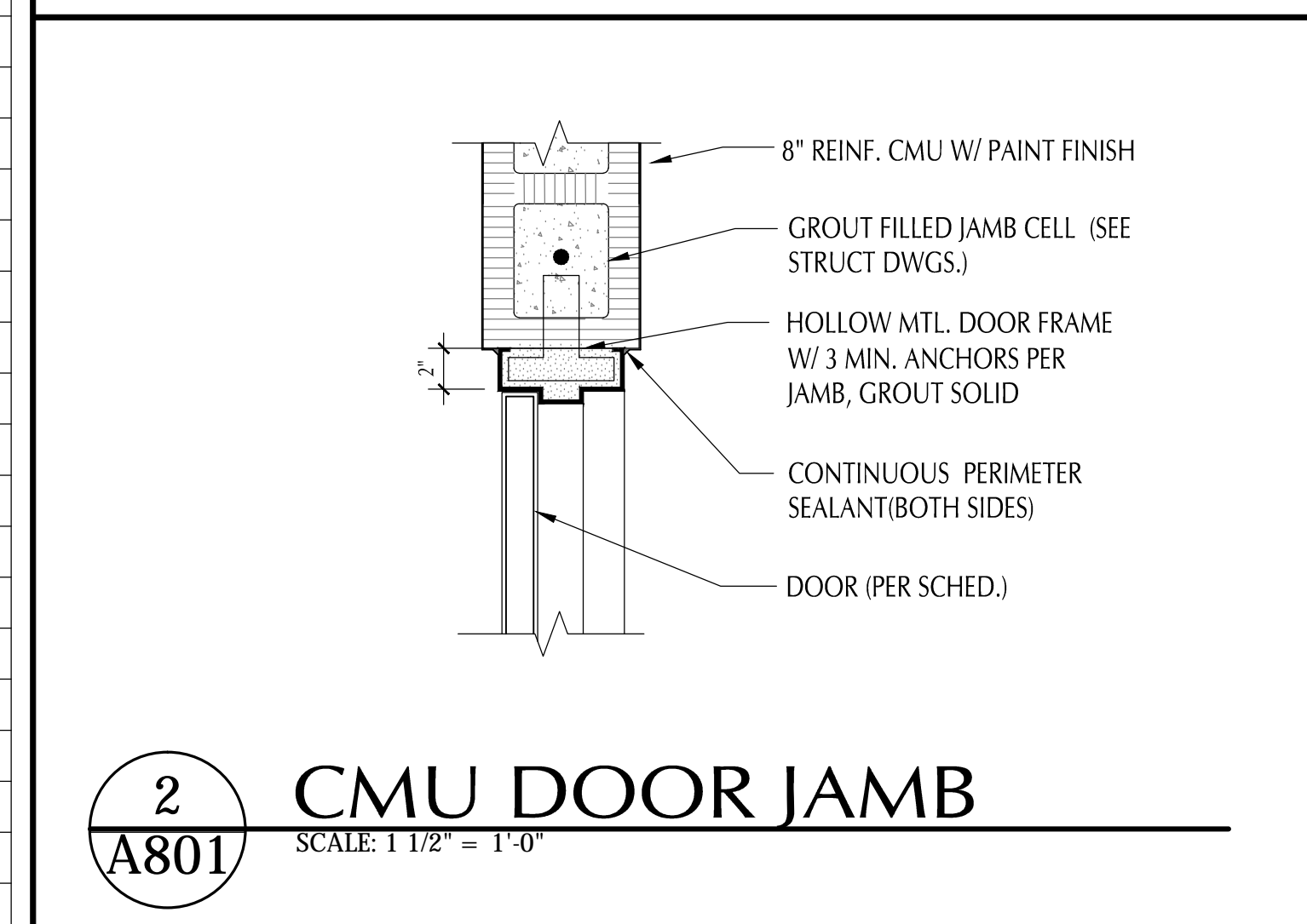
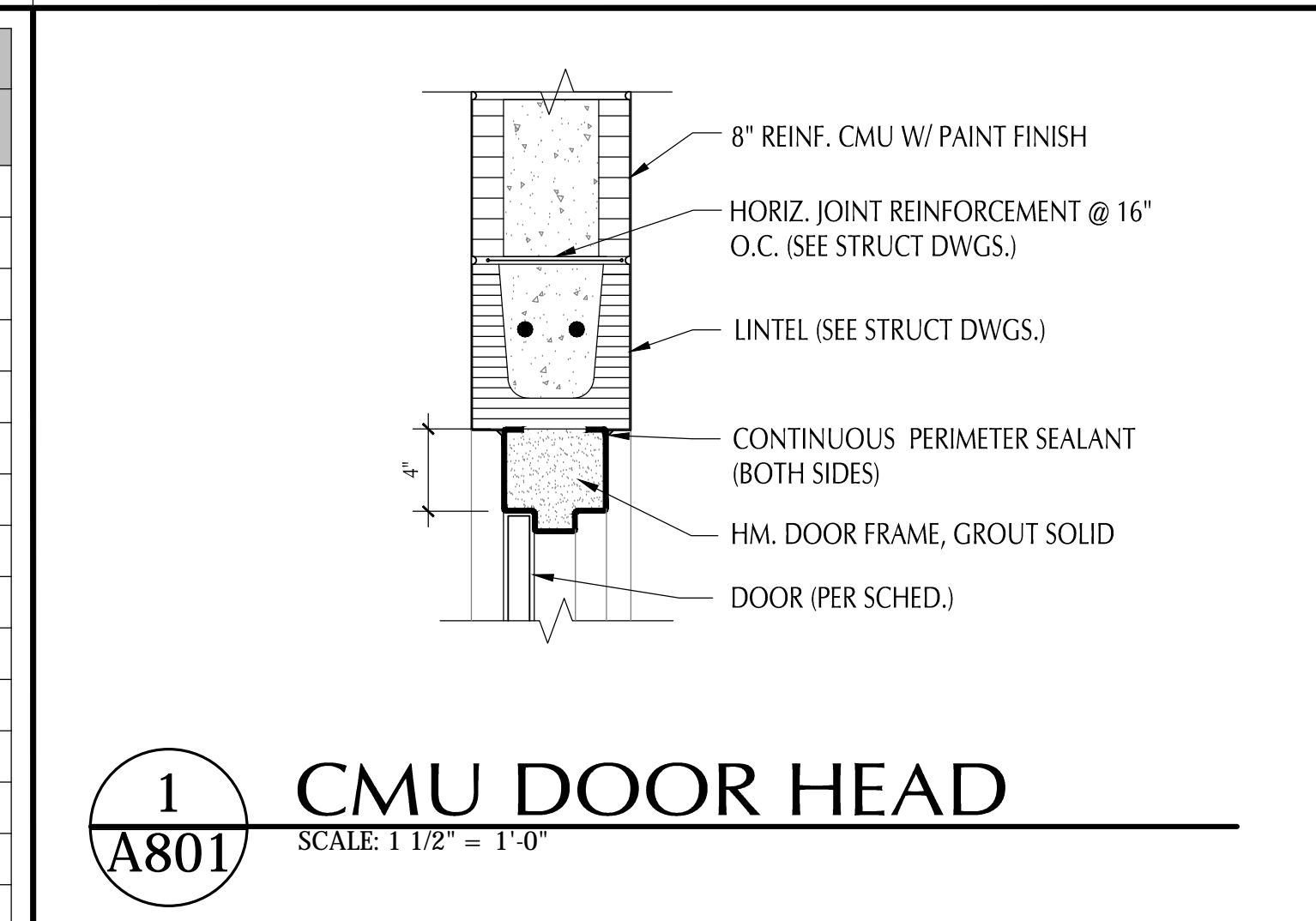
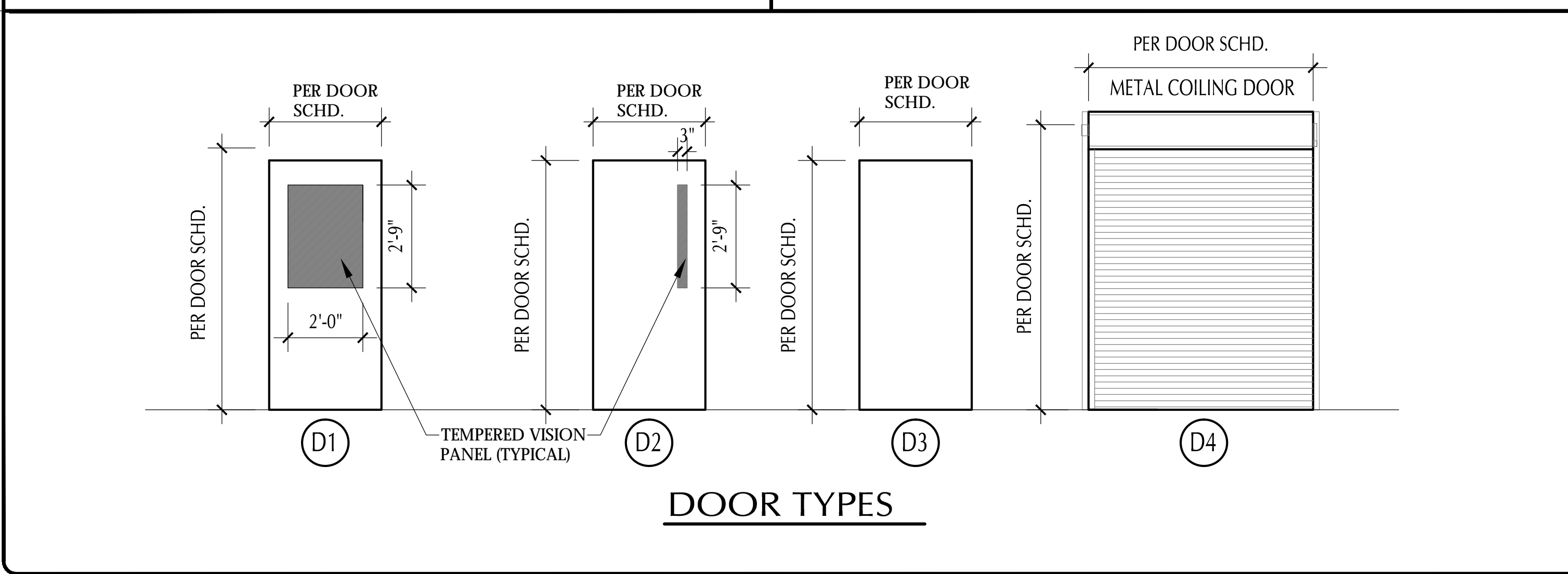
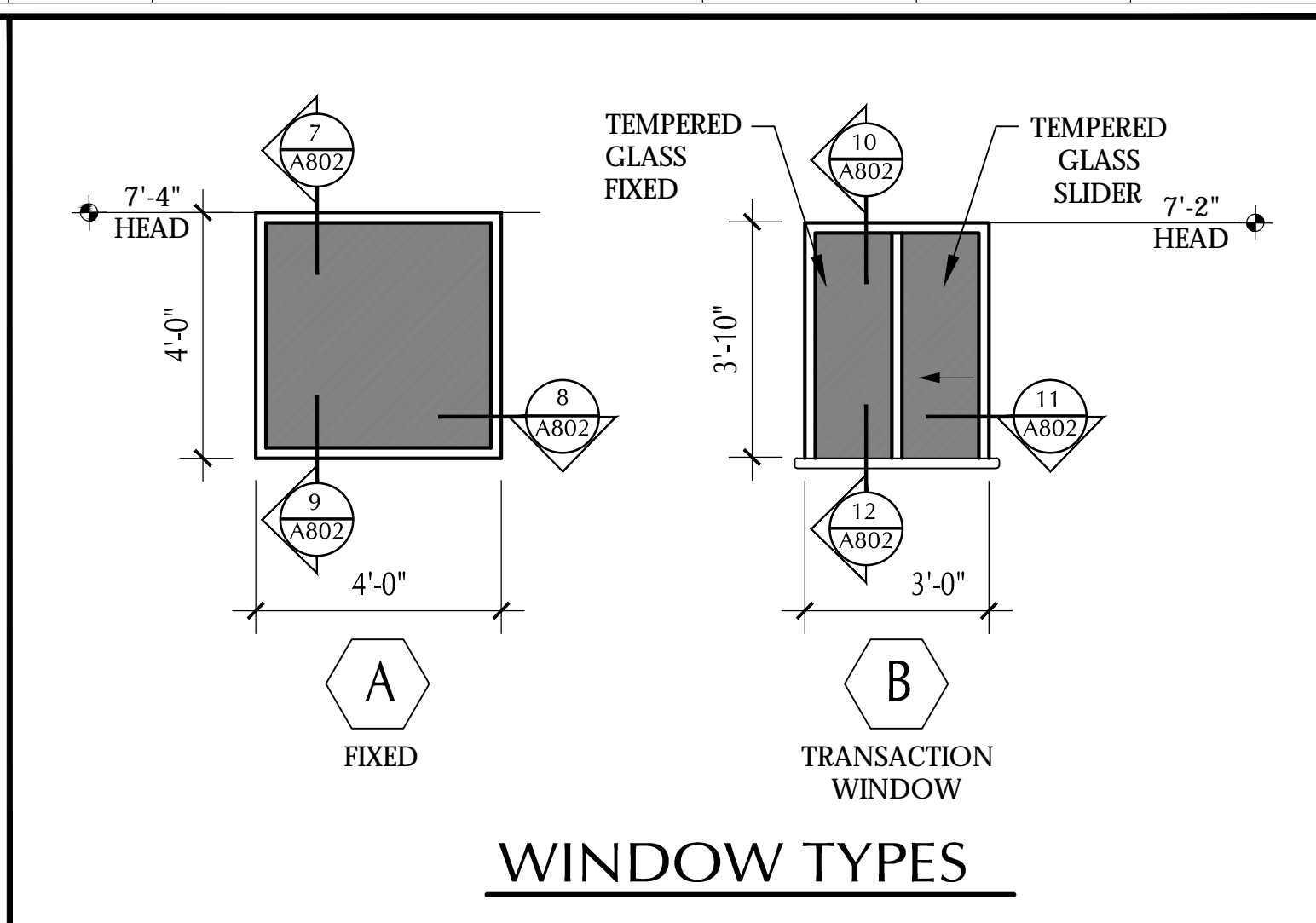
**WALL
SECTIONS**
A710
ISSUE
DATE 7-12-22

JOB #: GS-20-033

DOOR SCHEDULE											
NO.	DOOR	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	FIRE RATING	HW SET	NOTES:	HEAD	JAMB	THRESHOLD
100	3'-0" x 7'-0"	D1	HM	F1	HM		1	ENTRY TO LOBBY 100	4/A802	5/A802	6/A802
101	3'-0" x 7'-0"	D2	WOOD	F3	HM		2	LOBBY 100 TO RECEPTION 101	4/A801	5/A801	6/A801
102	3'-0" x 7'-0"	D2	WOOD	F3	HM		2	LOBBY 100 TO ASSIST. DIRECTORS 102	4/A801	5/A801	6/A801
103	3'-0" x 7'-0"	D2	WOOD	F3	HM		2	RECEPTION 101 TO DIRECTOR 103	4/A801	5/A801	6/A801
104	PR 3'-0" x 7'-0"	D3	WOOD	F4	HM		3	DIRECTOR 103 TO CLOSET 104	4/A801	5/A801	6/A801
105	3'-0" x 7'-0"	D2	WOOD	F3	HM		2	LOBBY 100 TO STORAGE/OFFICE 105	4/A801	5/A801	6/A801
106	PR 3'-0" X 7'-0"	D3	WOOD	F4	HM		3	LOBBY 100 TO I.T. 106	4/A801	5/A801	6/A801
107	PR 3'-0" X 7'-0"	D1	HM	F2	HM	SMOKE	4	CORRIDOR 107 TO BAYS 110	1/A801	2/A801	3/A801
108	PR 3'-0" x 7'-0"	D1	WOOD	F4	HM		4	CORRIDOR 107 TO BREAKROOM 108	4/A801	5/A801	6/A801
108A	3'-0" x 7'-0"	D3	WOOD	F3	HM		6	BREAKROOM 108 TO JANITOR 108A	4/A801	5/A801	6/A801
108B	3'-0" x 7'-0"	D1	HM	F1	HM	SMOKE	5	BREAKROOM 108 TO BAYS 110	1/A801	2/A801	3/A801
109	3'-0" x 7'-0"	D3	WOOD	F3	HM		6	CORRIDOR 107 TO BLUEPRINT STOR. 109	4/A801	5/A801	6/A801
109A	3'-0" x 7'-0"	D3	WOOD	F3	HM		6	BLUEPRINT STOR. 109 TO DIRECTOR 103	4/A801	5/A801	6/A801
110	3'-0" x 7'-0"	D1	HM	F1	HM		1	ENTRY TO BAYS 110	4/A802 (SIM)	5/A802 (SIM)	6/A802
110A	PR 3'-0" x 7'-0"	D2	HM	F2	HM		1A	ENTRY TO VESTIBULE 110A	4/A802 (SIM)	5/A802 (SIM)	6/A802
110B	12'-0" x 14'-0"	D4	HM	-	HM		-	VEHICLE ENTRY TO BAY 110	1/A802	2/A802	3/A802
110C	12'-0" x 14'-0"	D4	HM	-	HM		-	VEHICLE ENTRY TO BAY 110	1/A802	2/A802	3/A802
110D	12'-0" x 14'-0"	D4	HM	-	HM		-	VEHICLE ENTRY TO BAY 110	1/A802	2/A802	3/A802
110E	12'-0" x 14'-0"	D4	HM	-	HM		-	VEHICLE ENTRY TO BAY 110	1/A802	2/A802	3/A802
110F	12'-0" x 14'-0"	D4	HM	-	HM		-	VEHICLE ENTRY TO BAY 110	1/A802	2/A802	3/A802
110G	12'-0" x 14'-0"	D4	HM	-	HM		-	VEHICLE ENTRY TO BAY 110	1/A802	2/A802	3/A802
111	3'-0" x 7'-0"	D3	WOOD	F3	HM		7	CORRIDOR 107 TO WOMENS ROOM 111	4/A801	5/A801	6/A801
112	3'-0" x 7'-0"	D3	WOOD	F3	HM		7	CORRIDOR 107 TO MENS RESTROOM 112	4/A801	5/A801	6/A801
113	3'-0" x 7'-0"	D3	HM	F3	HM	SMOKE	8	BAYS 110 TO LOCKER ROOM 113	4/A801	5/A801	6/A801
113A	3'-0" x 7'-0"	D3	HM	F3	HM	SMOKE	8	BAYS 110 TO LOCKER ROOM 113	4/A801	5/A801	6/A801
114	3'-0" x 7'-0"	D3	HM	F3	HM		7	LOCKER ROOM 112 TO MENS RR 114	4/A801	5/A801	6/A801
115	3'-0" x 7'-0"	D3	HM	F3	HM		7	LOCKER ROOM 112 TO WOMENS RR 115	4/A801	5/A801	6/A801
116	3'-0" x 7'-0"	D3	HM	F3	HM		6	BAYS 110 TO WATER SYSTEMS 116	4/A801	5/A801	6/A801
116A	12'-0" x 14'-0"	D4	HM	-	HM		-	VEHICLE ENTRY TO WATER SYSTEMS 116	1/A802	2/A802	3/A802
117	3'-0" x 7'-0"	D3	HM	F3	HM		6	BAYS 110 TO SANITARY SYSTEMS 117	4/A801	5/A801	6/A801
117A	12'-0" x 14'-0"	D4	HM	-	HM		-	VEHICLE ENTRY TO SANITARY SYSTEMS 117	1/A802	2/A802	3/A802
118	PR 3'-0" x 7'-0"	D3	HM	F2	HM		9	ENTRY TO MECHANICAL 118	4/A802 (SIM)	5/A802 (SIM)	6/A802
119	3'-0" x 7'-0"	D3	HM	F1	HM		10	ENTRY TO ELECTRICAL 119	4/A802 (SIM)	5/A802 (SIM)	6/A802

DOOR SCHEDULE NOTES:

- THIS SCHEDULE IS FURNISHED FOR ASSISTANCE TO THE CONTRACTOR. IT IS NOT ENTIRELY INCLUSIVE. SHOULD ANY ITEM BE OMITTED OR NOT IDENTIFIED PROPERLY, PROVIDE HARDWARE AS REQUIRED FOR SIMILAR PURPOSE.
- COORDINATE ALL KEYING WITH OWNER.
- G.C. TO VERIFY ALL DOOR OPERATION. REPAIR / REPLACE / ADJUST HARDWARE & DOOR CLOSURE AS NEEDED.
- DOOR HARDWARE SHALL HAVE LEVER HANDLES AND COMPLY WITH ALL ADA REQUIREMENTS.
- GLASS PANELS IN NEW DOORS SHALL BE SAFETY GLAZING IN COMPLIANCE WITH F.B.C. 2020, SECTION 2406.



REVISIONS

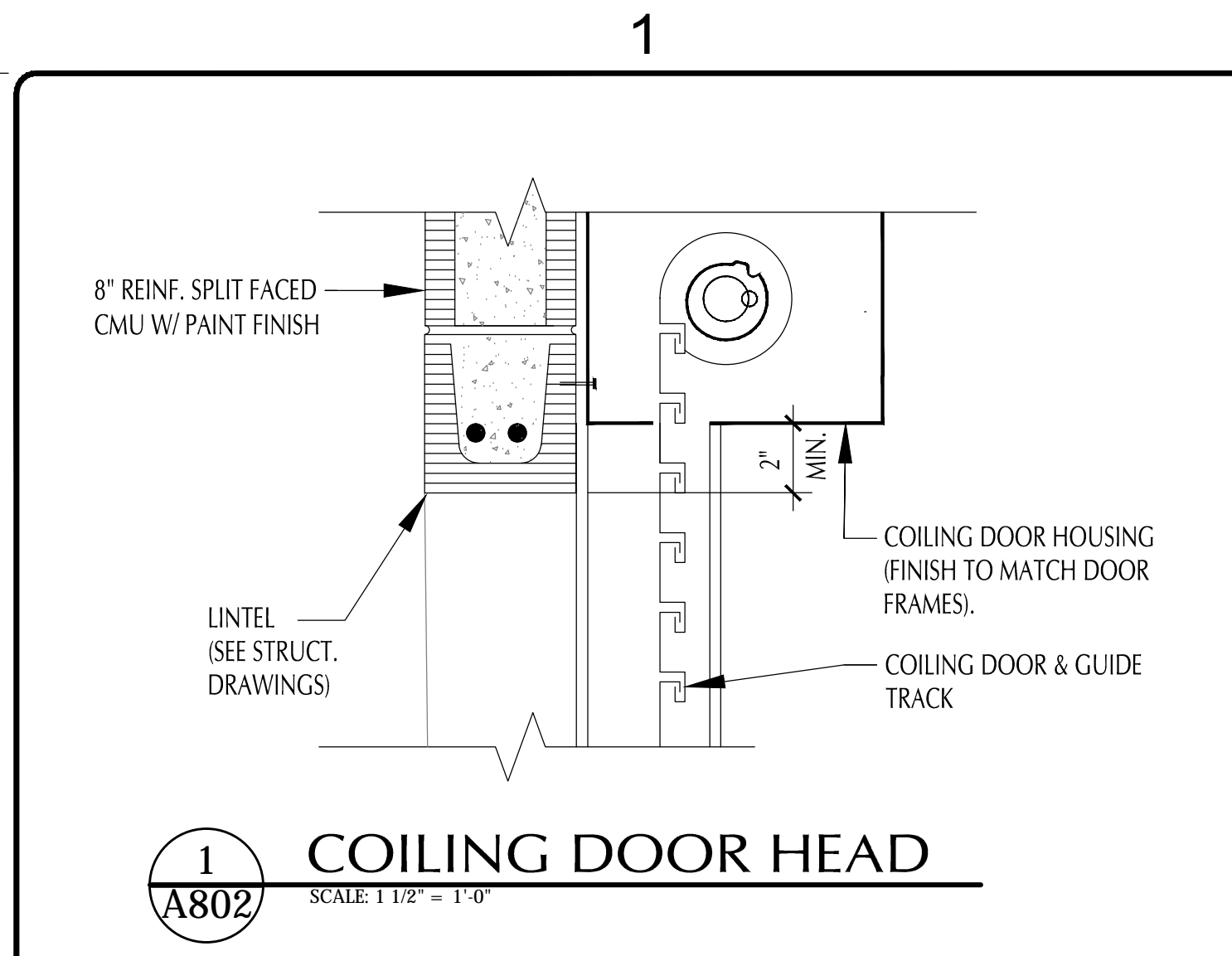
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BID SET

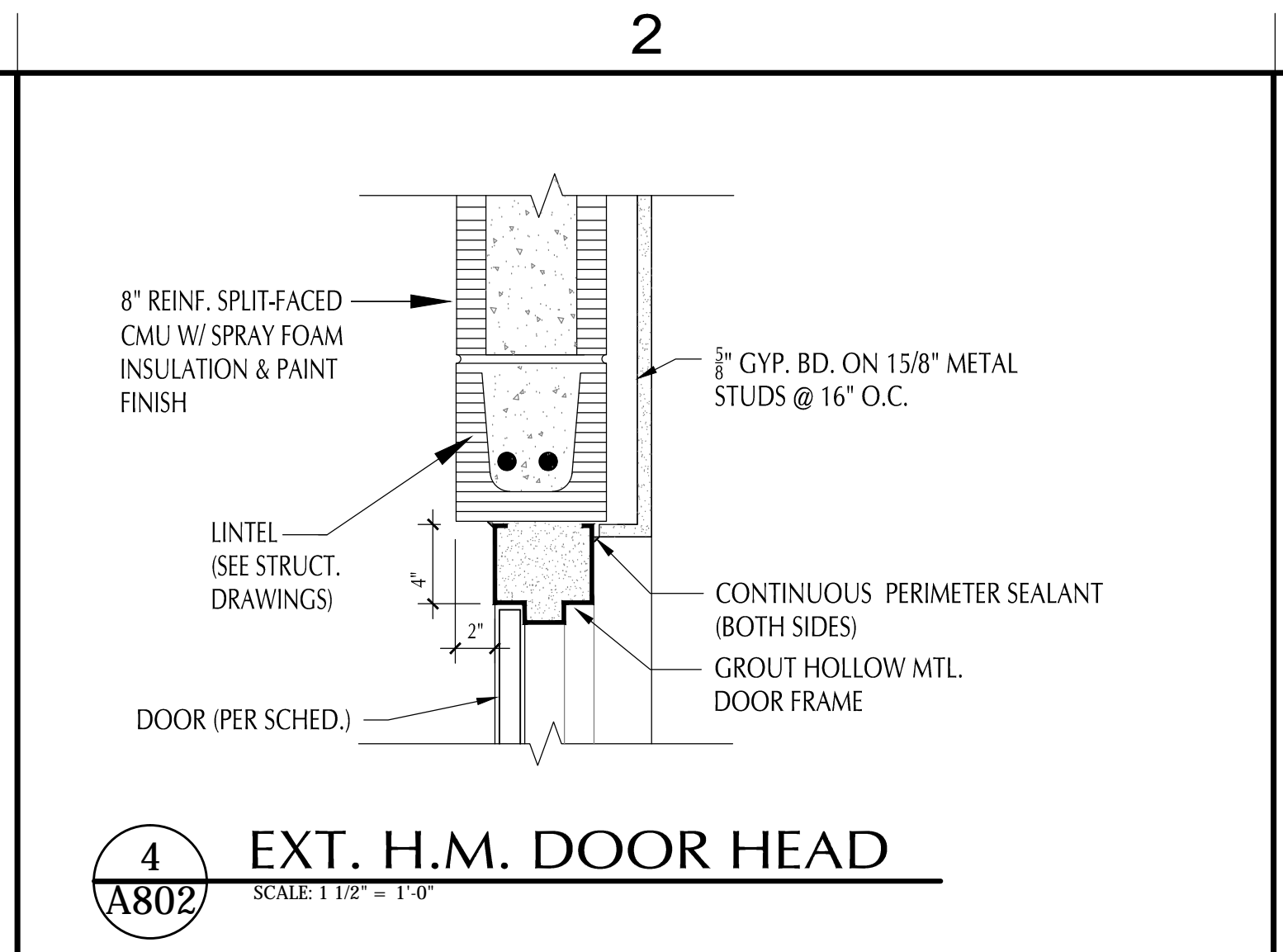
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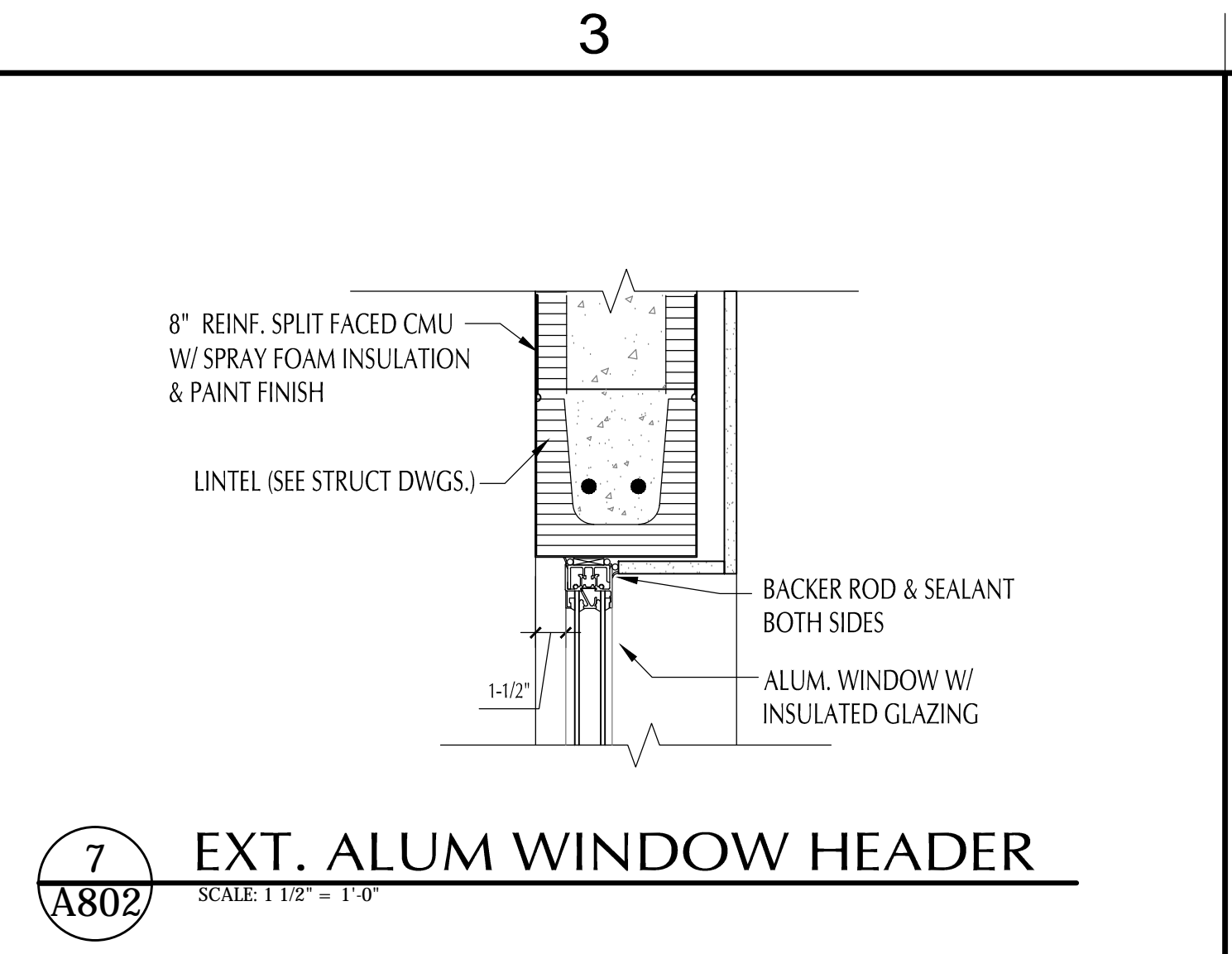
DOOR / WINDOW SCHEDULES
A801
ISSUE DATE 7-12-22



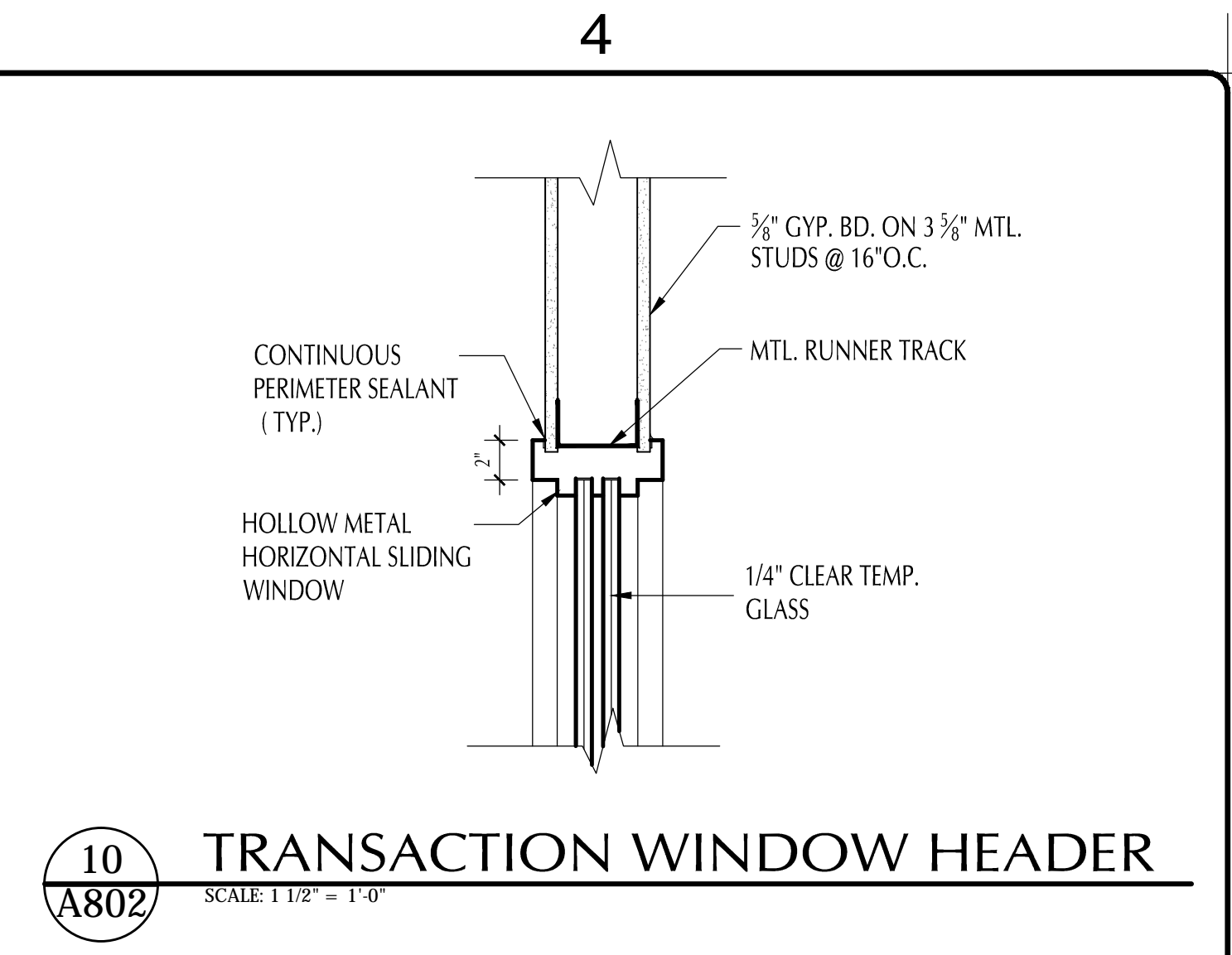
1 COILING DOOR HEAD
SCALE: 1 1/2" = 1'-0"



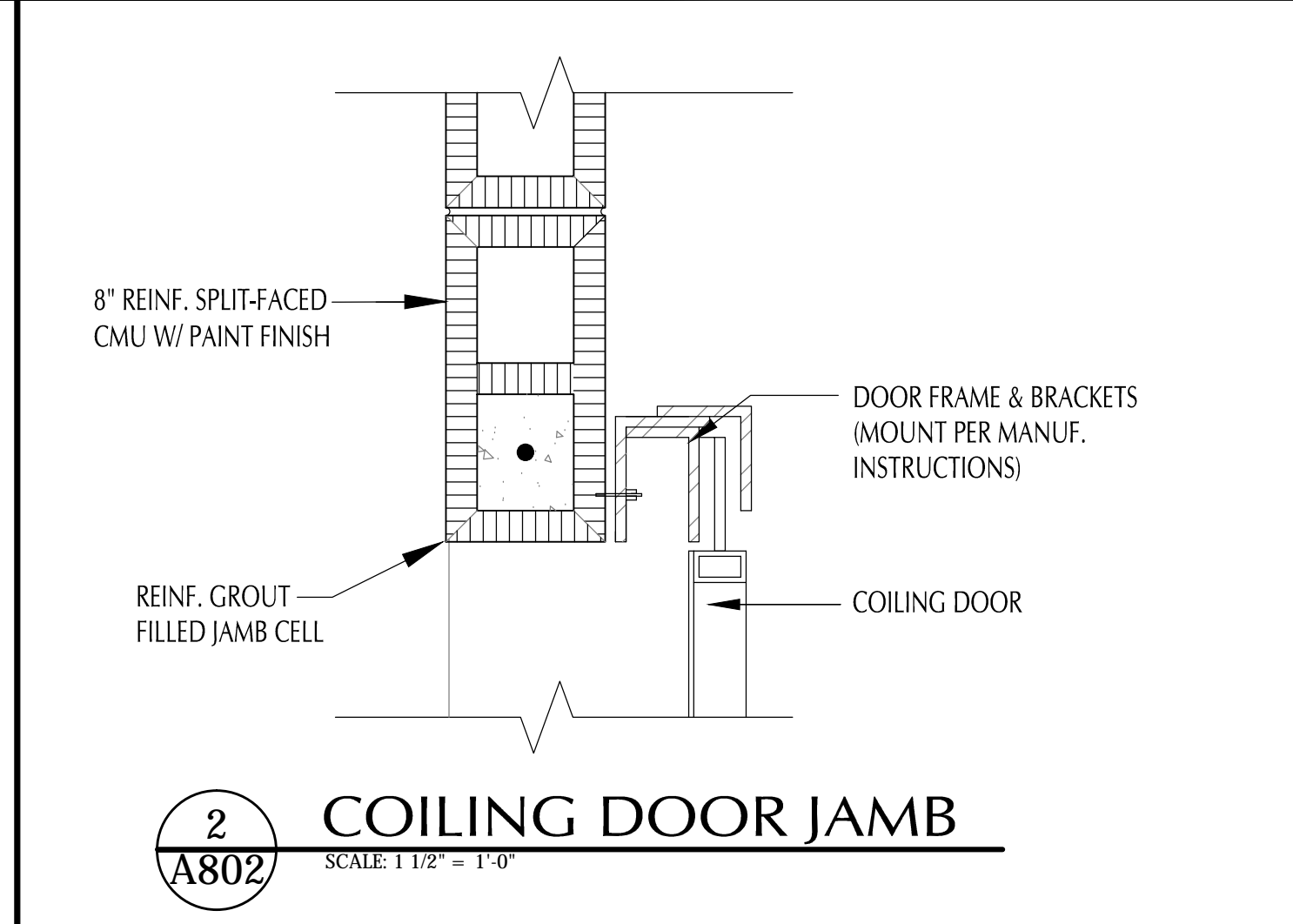
4 EXT. H.M. DOOR HEAD
SCALE: 1 1/2" = 1'-0"



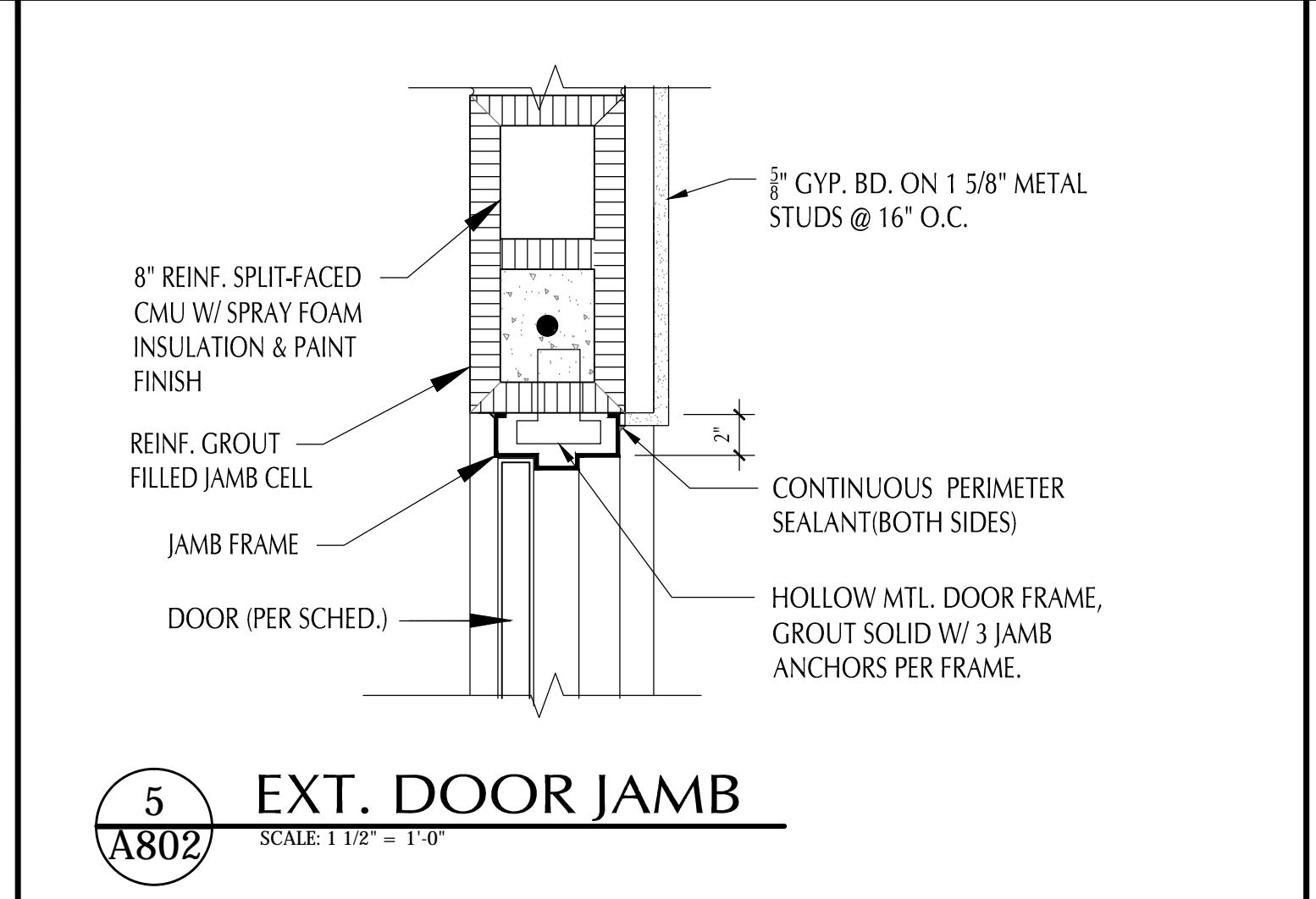
7 EXT. ALUM WINDOW HEADER
SCALE: 1 1/2" = 1'-0"



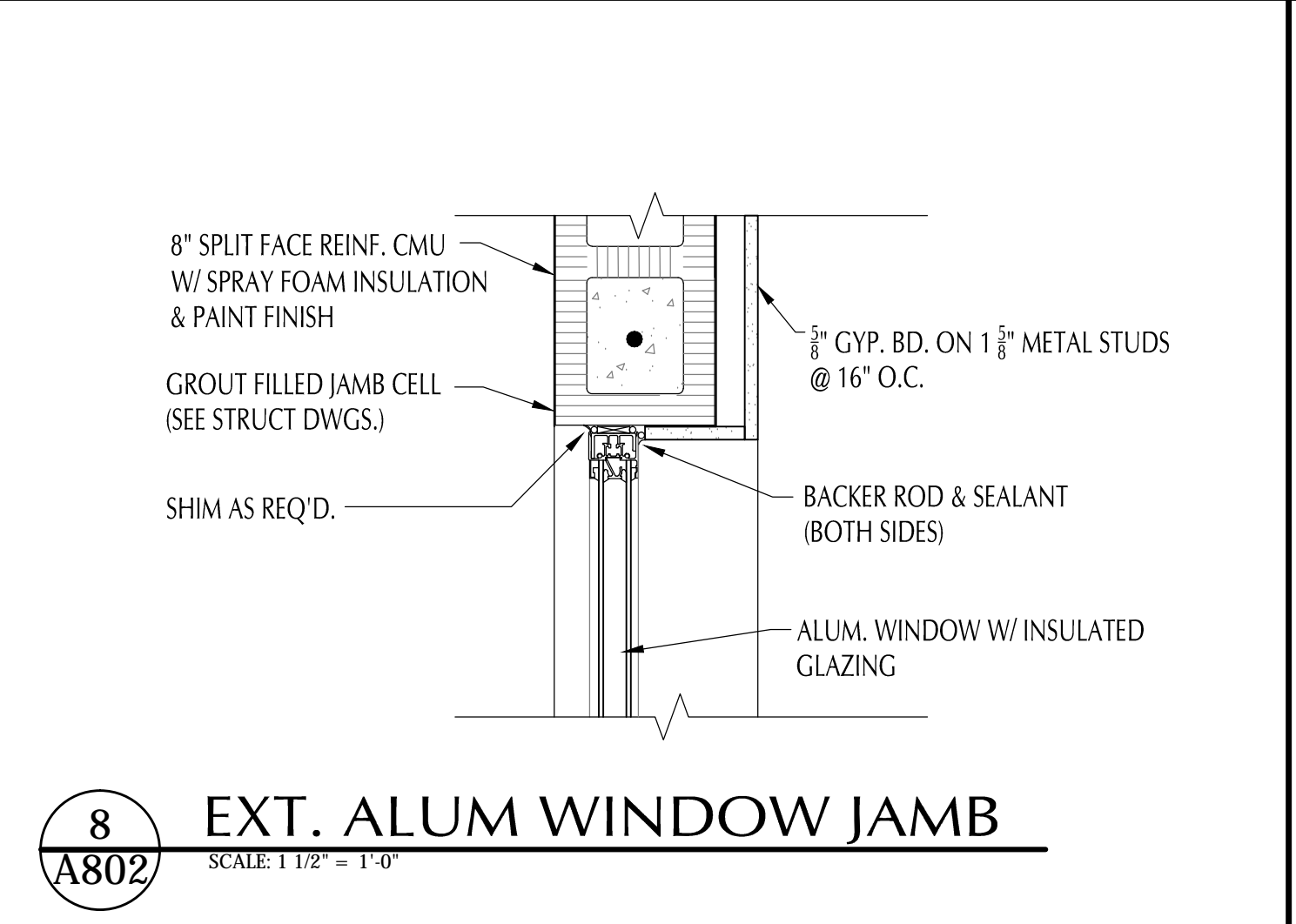
10 TRANSACTION WINDOW HEADER
SCALE: 1 1/2" = 1'-0"



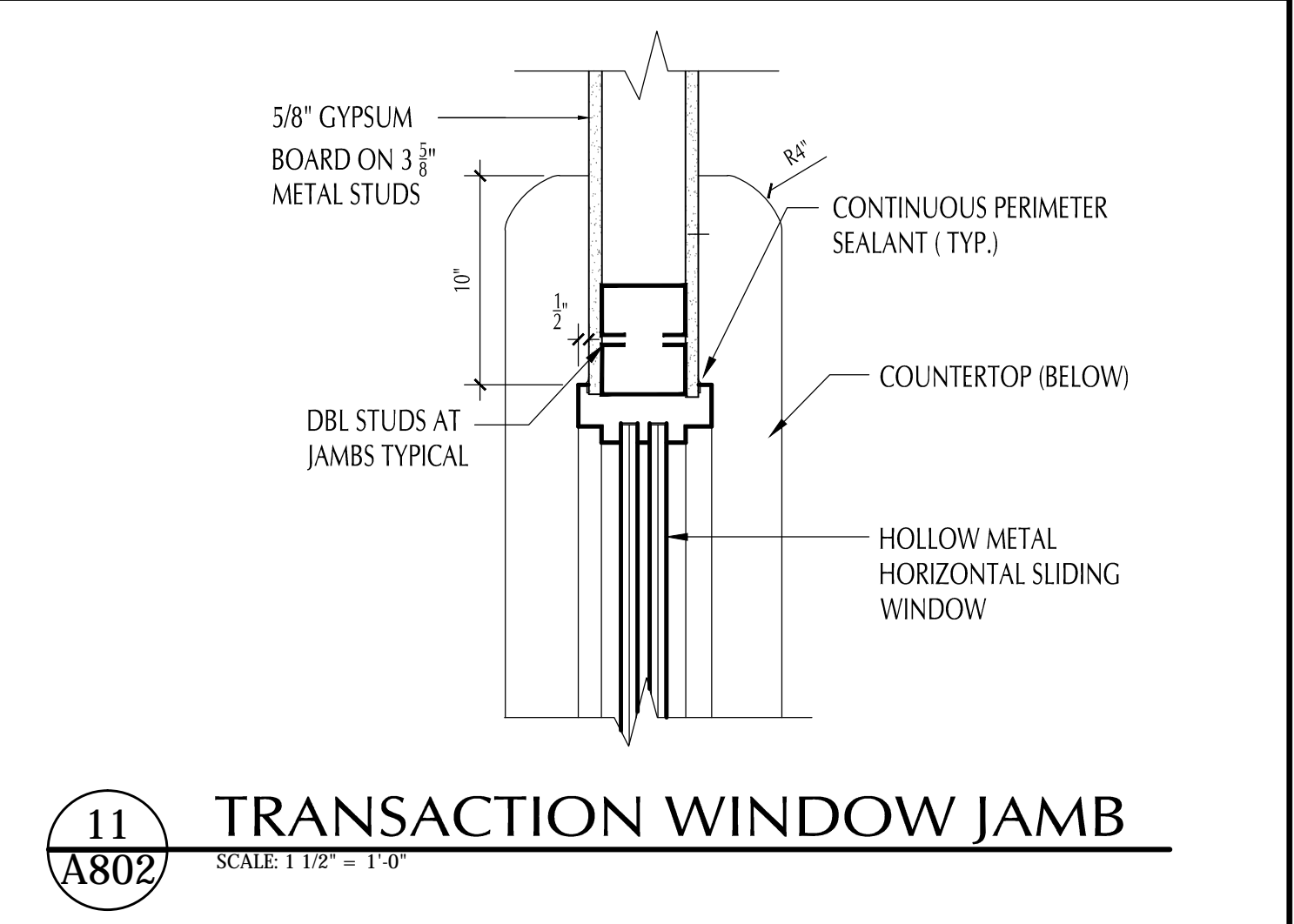
2 COILING DOOR JAMB
SCALE: 1 1/2" = 1'-0"



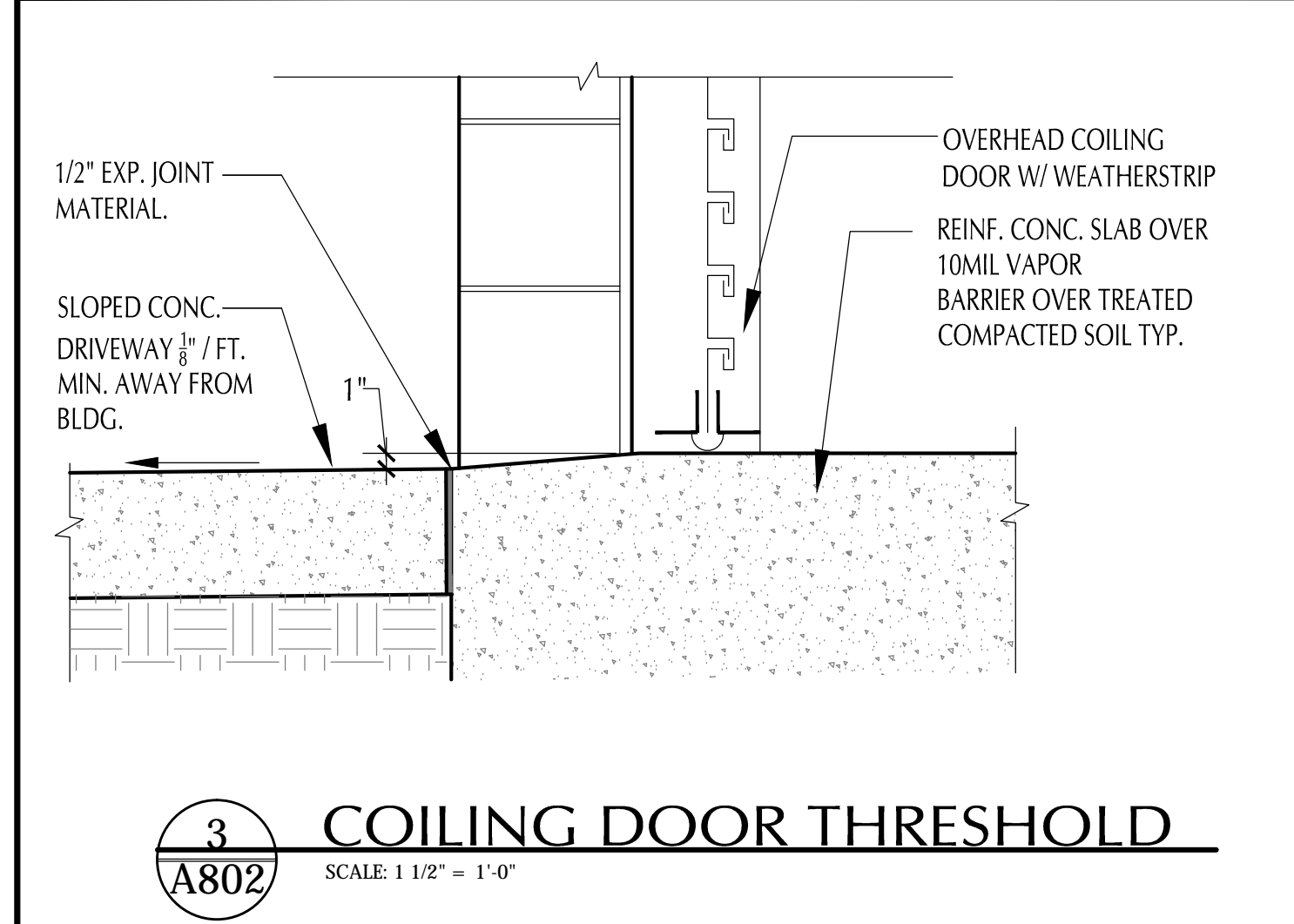
5 EXT. DOOR JAMB
SCALE: 1 1/2" = 1'-0"



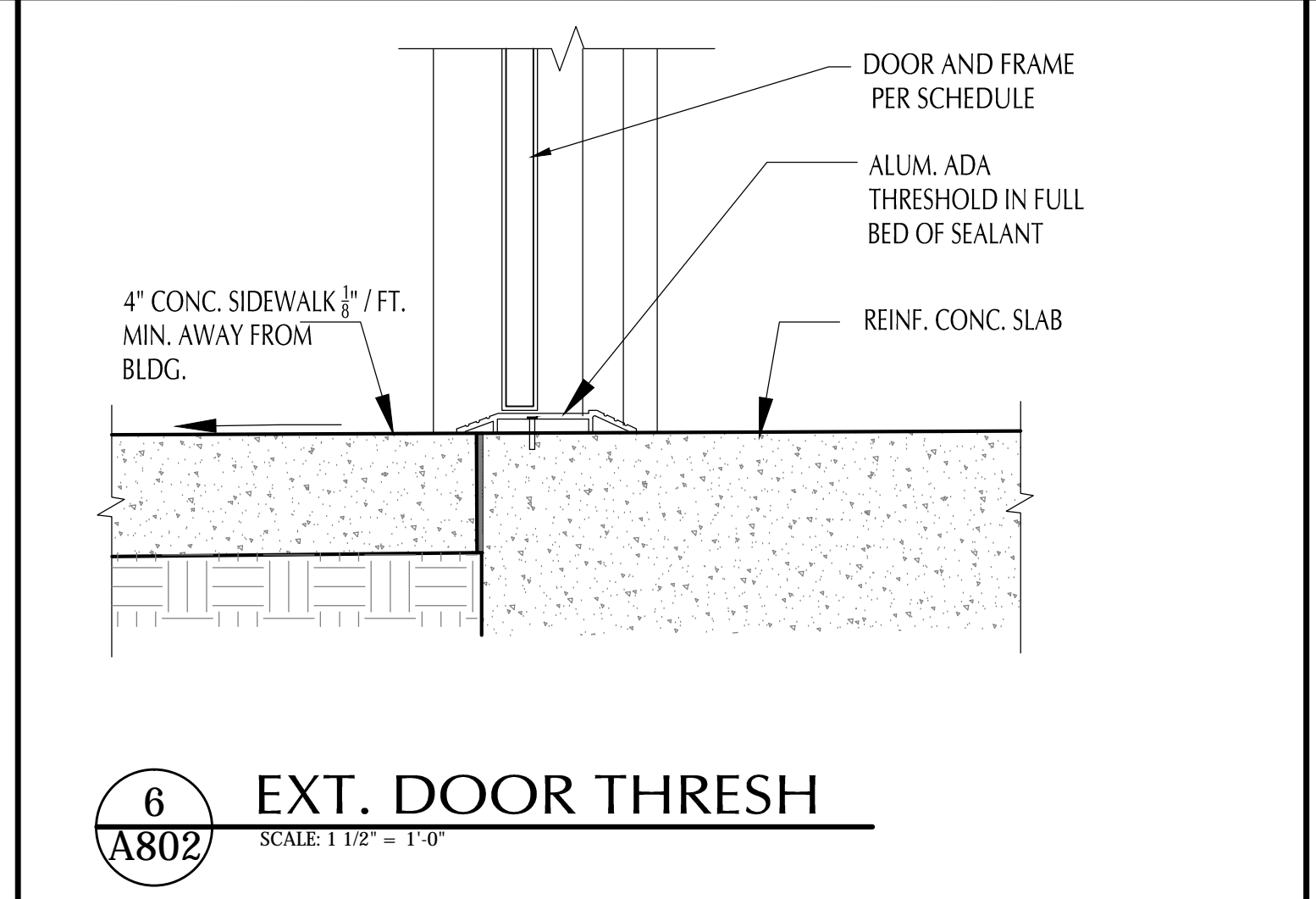
8 EXT. ALUM WINDOW JAMB
SCALE: 1 1/2" = 1'-0"



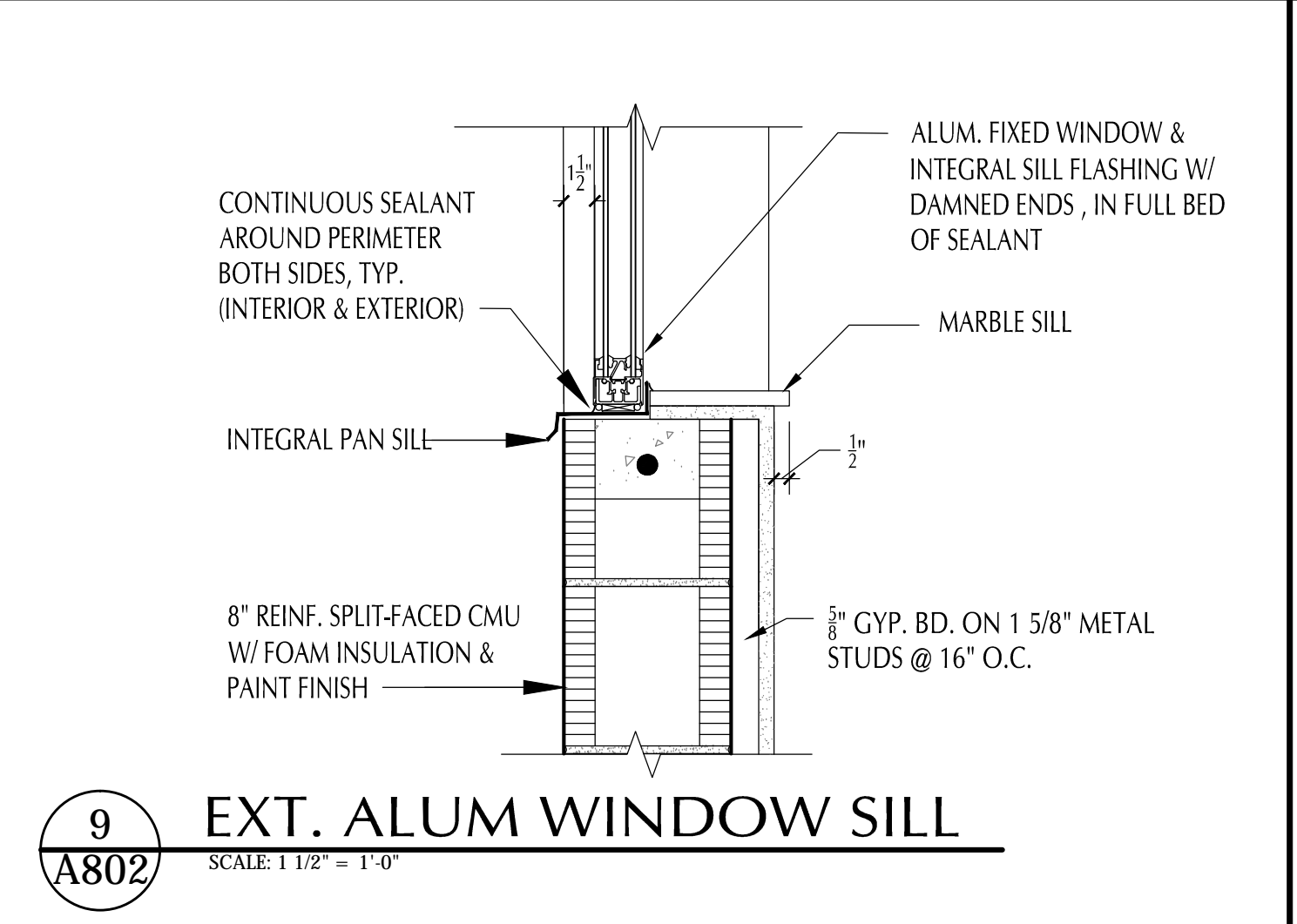
11 TRANSACTION WINDOW JAMB
SCALE: 1 1/2" = 1'-0"



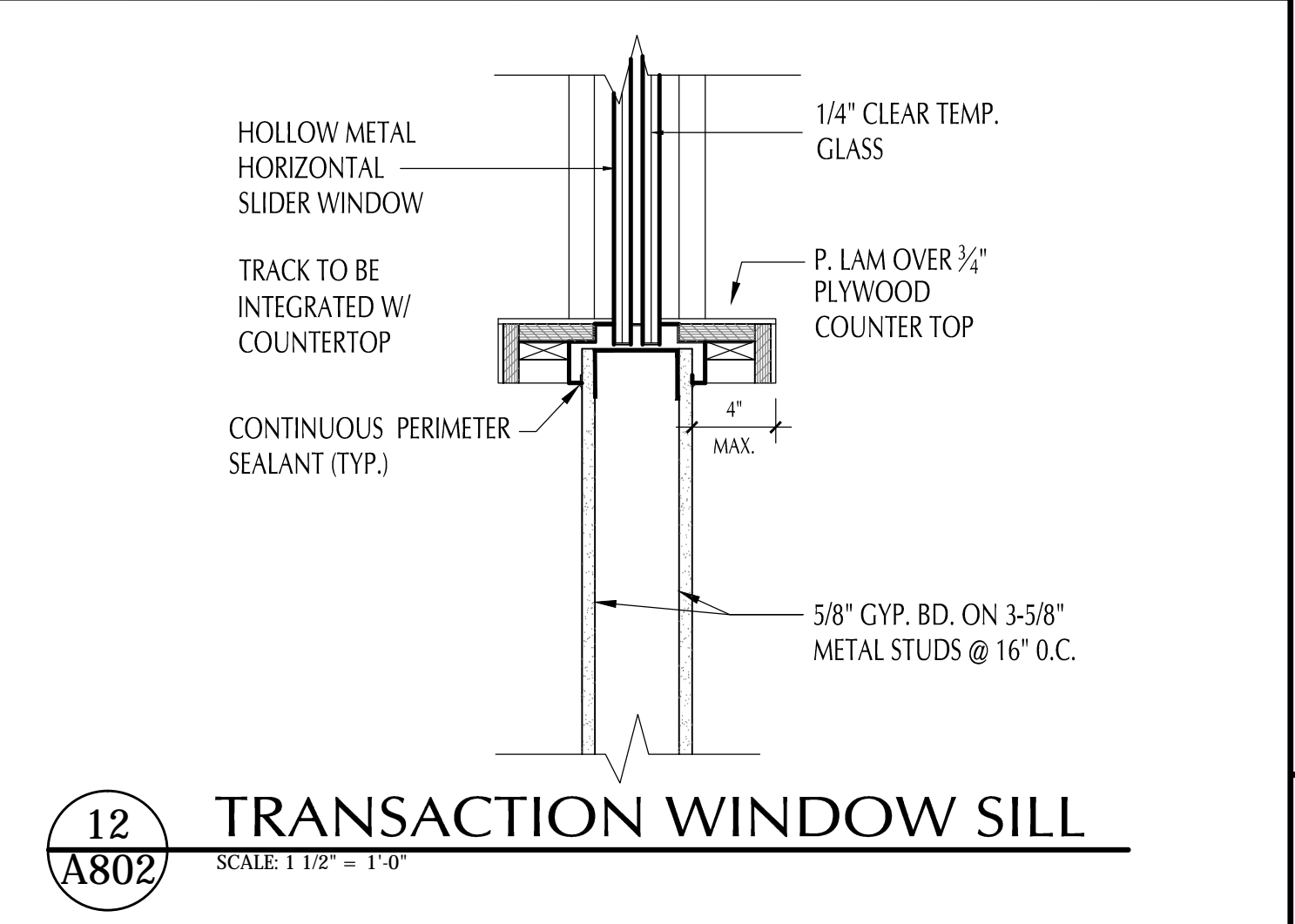
3 COILING DOOR THRESHOLD
SCALE: 1 1/2" = 1'-0"



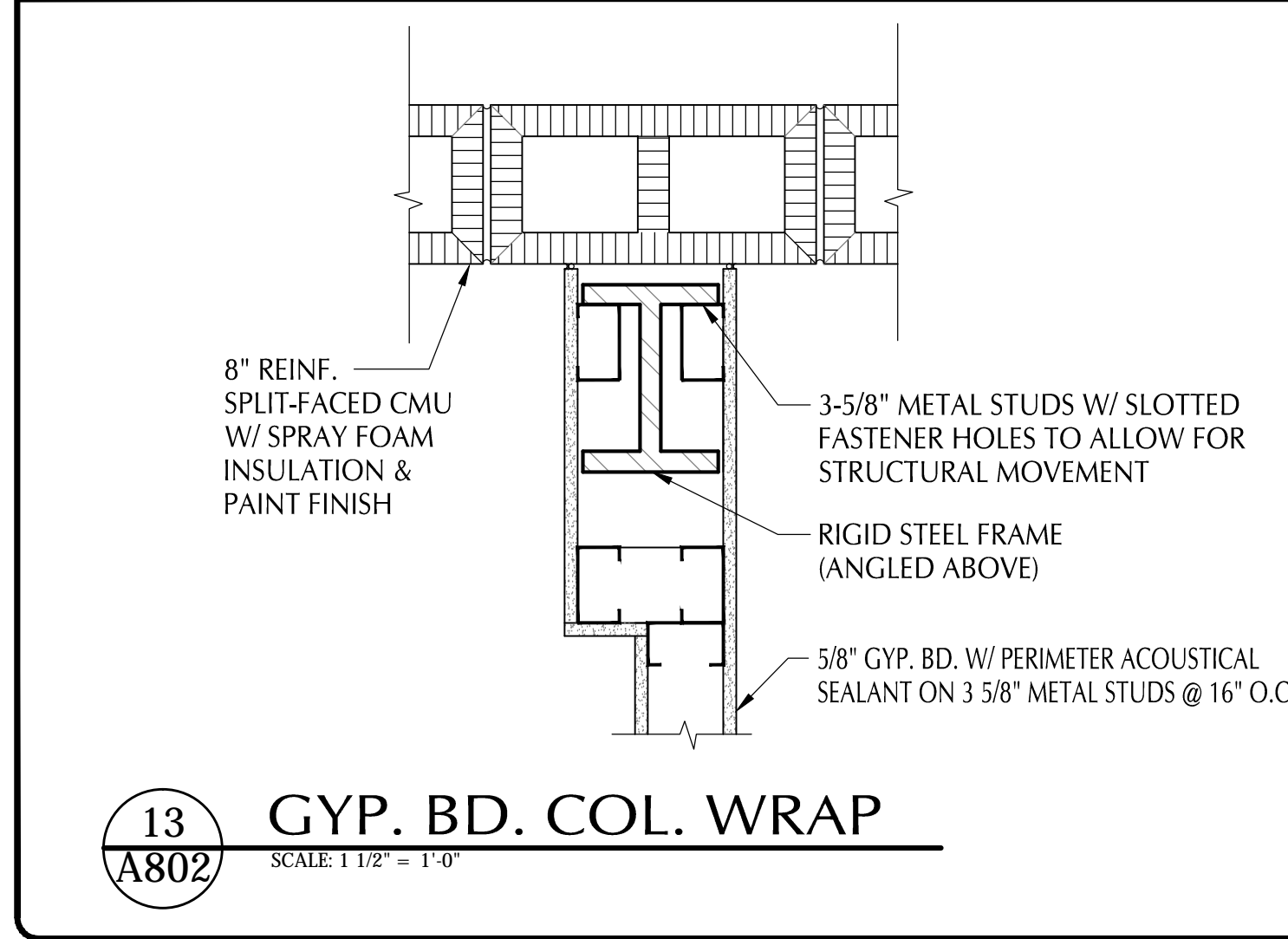
6 EXT. DOOR THRESH
SCALE: 1 1/2" = 1'-0"



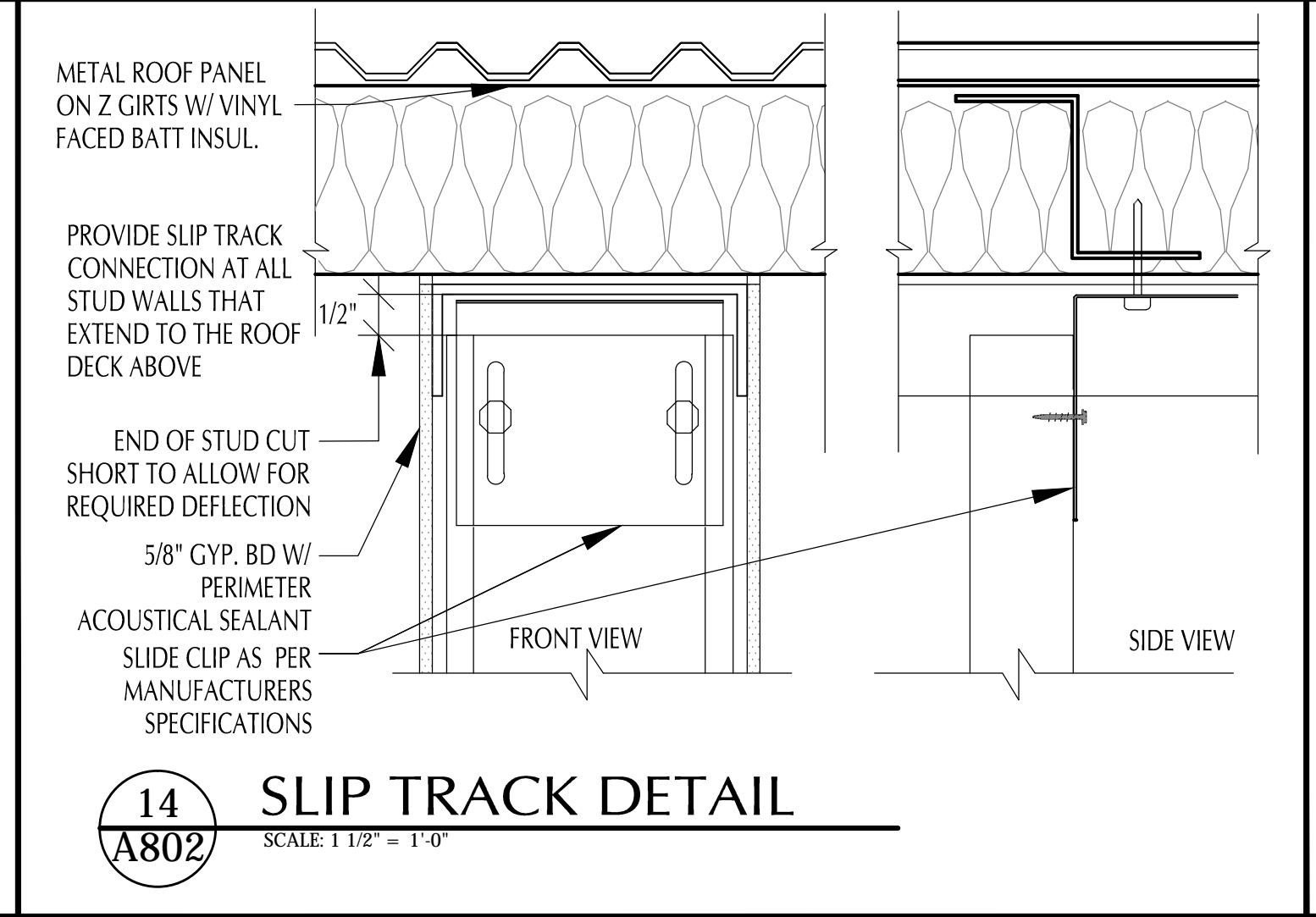
9 EXT. ALUM WINDOW SILL
SCALE: 1 1/2" = 1'-0"



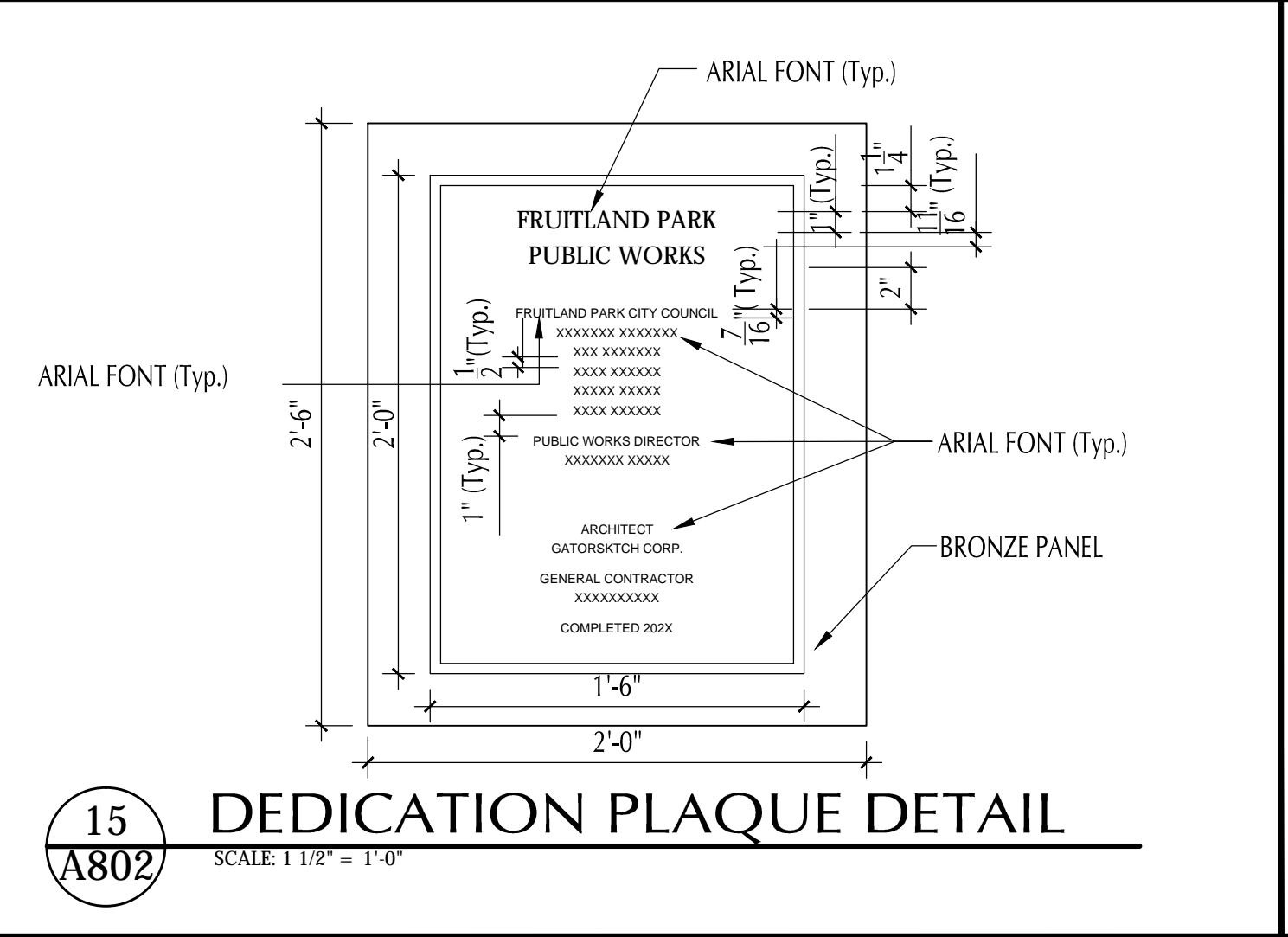
12 TRANSACTION WINDOW SILL
SCALE: 1 1/2" = 1'-0"



13 GYP. BD. COL. WRAP
SCALE: 1 1/2" = 1'-0"



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



15 DEDICATION PLAQUE DETAIL
SCALE: 1 1/2" = 1'-0"

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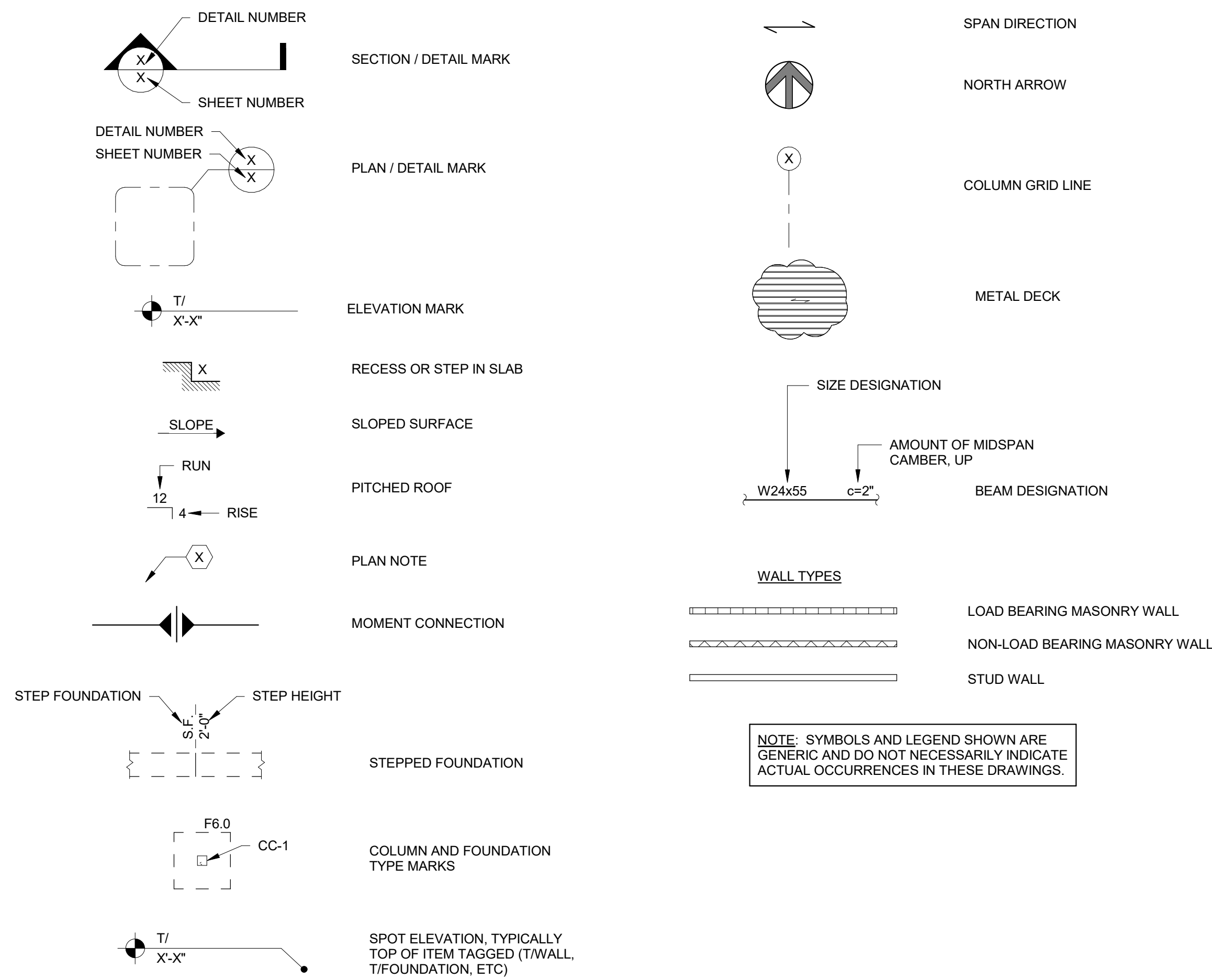
DOOR / WINDOW / MISC. DETAILS
A802
ISSUE DATE: 7-12-22

JOB #: GC-20-033

STRUCTURAL ABBREVIATIONS

ABBREV	ABBREVIATION	LB	POUND
ACI	AMERICAN CONCRETE INSTITUTE	LGTH	LENGTH
ADD	ADDITIVE	LL	LIVE LOAD
ADDL	ADDITIONAL	LLH	LONG LEG HORIZONTAL
AF	ABOVE FINISHED FLOOR	LLV	LONG LEG VERTICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LONG.	LONGITUDINAL
AISI	AMERICAN IRON AND STEEL INSTITUTE	LSL	LAMINATED STRAND LUMBER
ALT	ALTERNATE/ALTERNATIVE	LT WT	LIGHT WEIGHT
ALUM	ALUMINUM	LVL	LAMINATED VENEER LUMBER
ARCH	ARCHITECTURE/ARCHITECTURAL	MATL	MATERIAL
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MAX	MAXIMUM
AWS	AMERICAN WELDING SOCIETY	MB	MASONRY BEAM
B/	BOTTOM OF	MC	MISCELLANEOUS CHANNEL/MASONRY COLUMN
BCX	BOTTOM CHORD EXTENSION	MECH	MECHANICAL
BLDG	BUILDING	MET	METAL
BLK	BLOCK	MFR	MANUFACTURE/MANUFACTURER
BM	BEAM	MID	MIDDLE
BOT	BOTTOM	MIN	MINIMUM
BP	BASE PLATE/BEARING PLATE	MISC	MISCELLANEOUS
BRG	BEARING	MO	MASONRY OPENING
BTWN	BETWEEN	MPH	MILES PER HOUR
C	CHANNEL	NGVD	NATIONAL GEODETIC VERTICAL DATUM
CB	CONCRETE BEAM	NIC	NOT IN CONTRACT
CC	CONCRETE COLUMN	NO.	NUMBER
CF	CUBIC FEET (FOOT)	NS	NEAR SIDE
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONTRACTION JOINT	OC	ON CENTERS
CL	CENTERLINE	OD	OUTSIDE DIAMETER
CLR	CLEAR/CLEARANCE	O.F.	OUTSIDE FACE
CM	CONCRETE MASONRY	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
CO	COMPANY	OSB	ORIENTED STRAND BOARD
COL	COLUMN	P/C	PRECAST CONCRETE/PILE CAP
CONC	CONCRETE	P/T	POST TENSIONED
CONT	CONTINUOUS	PAR	PARALLEL
CONN	CONNECTION	PCB	PRECAST CONCRETE BEAM
CONST	CONSTRUCTION	PCC	PRECAST CONCRETE COLUMN
COORD	COORDINATE	PCF	POUNDS PER CUBIC FEET
CSJ	CONSTRUCTION JOINT	PEMB	PRE-ENGINEERED METAL BUILDING
CFR	CENTER	PEN	PENETRATION
CTRD	CENTERED	P.J.	PANEL JOINT CENTERLINE
CY	CUBIC YARD	PL	PLATE
DEPT	DEPARTMENT	PLF	POUNDS PER LINEAR FOOT
DET	DETAIL	PLMG	PLUMBING
DIA	DIAMETER	PLY	PLYWOOD
DIAG	DIAGONAL	PREFAB	PREFABRICATED
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DIST	DISTANCE	PSI	POUNDS PER SQUARE INCH
DL	DEAD LOAD	PSL	PARALLEL STRAND LUMBER
DN	DOWN	PT	PRESSURE TREATED
DWG	DRAWING	R/W	REINFORCED WITH
EA	EACH	RD	ROOF DRAIN
EAD	EACH END	REF	REFERENCE
EF	EACH FACE	REINF	REINFORCING
EHPA	EMERGENCY HURRICANE PROTECTION AREA	REQD	REQUIRED
EJ	EXPANSION JOINT	REV	REVISION
ELEC	ELECTRIC/ELECTRICAL	RTU	ROOF TOP UNIT
EL ELEV	ELEVATION	SB	SOFFIT BEAM
ENGR	ENGINEER	SCHED	SCHEDULE
EOD	EDGE OF DECK	S.F.	SQUARE FEET
EOR	ENGINEER OF RECORD	SF	STRIP FOUNDATION
EQ SP	EQUAL SPACED	SIM	SIMILAR
ES	EACH SIDE	SPC	SPACE/SPACES
EW	EACH WAY	SPECS	SPECIFICATIONS
EXIST	EXISTING	SQ	SQUARE
EXP	EXPANSION	SS	STAINLESS STEEL
EXT	EXTERIOR	STD	STANDARD
F	FOUNDATION	STIFF	STIFFENER
FD	FLOOR DRAIN	STL	STEEL
FDN	FOUNDATION	STRUCT	STRUCTURAL
FF	FINISHED FLOOR	SYM	SYMMETRICAL
FIN	FINISH	T/	TOP OF
FIN GR	FINISH GRADE	TB	TIE BEAM
FLR	FLOOR	T&B	TOP AND BOTTOM
FS	FAR SIDE	TCX	TOP CHORD EXTENSION
FT	FEET/FOOT	TDS	TURN DOWN SLAB
FTG	FOOTING	TE	THICKENED EDGE
GA	GAGE/GAUGE	TEMP	TEMPERATURE
GALV	GALVANIZED	TENS	TENSION
GB	GRADE BEAM	THD	THREAD/THREADED
GC	GENERAL CONTRACTOR	THK	THICK
GEN	GENERAL	TOL	TOLERANCE
GL	GRID LINE	TRANS	TRANSVERSE
GS	GALVANIZED STEEL	TS	TUBE STEEL
HD	HOT DIPPED	T.S.	THICKENED SLAB
HDG	HOT DIPPED GALVANIZED	TWF	THICKENED WALL FOUNDATION
HORIZ	HORIZONTAL	TYP	TYPICAL
HSA	HEADED STUD ANCHOR	UNO	UNLESS NOTED OTHERWISE
HSS	HOLLOW STRUCTURAL SECTION	VERT	VERTICAL
HT	HEIGHT	VIF	VERIFY IN FIELD
I	MOMENT OF INERTIA	VOL	VOLUME
ID	INSIDE DIAMETER	W	WIDE FLANGE SECTION
I.F.	INSIDE FACE	W/	WITH
IN.	INCH	W/O	WITHOUT
INT	INTERIOR	WD	WOOD
JST	JOIST	WF	WALL FOOTING
JT	JOINT	WP	WATERPROOF
K	KIP (1000 LB)	W.P.	WORKING POINT
KLF	KIPS PER LINEAL FOOT	WS	WELDED STUD
KSI	KIPS PER SQUARE INCH	WT	WEIGHT/STRUCTURAL TEE SECTION
KWY	KEYWAY	WWF	WELDED WIRE FABRIC
@	AT DESIGNATION	#	POUNDS / REBAR SIZE NUMBER
+	PLUS OR MINUS	+	PLUS OR MINUS
L	ANGLE	∠	ANGLE
C.L.	CENTER LINE	&	SECTION MODULUS
&	AND	Ix	MOMENT OF INERTIA

STRUCTURAL SYMBOLS AND LEGEND



STRUCTURAL SHEET INDEX	
SHEET #	SHEET TITLE
S000	ABBREVIATIONS AND SYMBOLS
S001	STRUCTURAL GENERAL NOTES
S002	STRUCTURAL GENERAL NOTES
S003	COMPONENTS AND CLADDING WIND LOAD DIAGRAMS
S100	SITE PLAN
S101	FOUNDATION AND SLAB ON GRADE PLAN
S102	ROOF FRAMING PLAN
S300	SECTIONS
S301	SECTIONS
S500	TYPICAL STRUCTURAL CONCRETE DETAILS
S501	TYPICAL STRUCTURAL CONCRETE DETAILS
S502	TYPICAL STRUCTURAL MASONRY DETAILS
S503	TYPICAL STRUCTURAL STEEL DETAILS

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ABBREVIATIONS AND SYMBOLS
S000
ISSUE DATE 07-12-22

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010000 GENERAL NOTES

- 1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR OPENINGS, DEPRESSIONS, EQUIPMENT WEIGHTS AND LOCATIONS, EMBEDDED ITEMS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
2. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
3. NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY THE ENGINEER OF RECORD FOR REVIEW OF ANY SUCH DEVIATIONS.
4. DO NOT SCALE DRAWINGS.
5. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS.
6. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE DRAWINGS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.
7. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
9. THE STRUCTURAL ENGINEER'S OBLIGATIONS TO REVIEW SHOP DRAWINGS AND OTHER SUBMITTALS AND TO RETURN THEM IN A TIMELY MANNER ARE CONDITIONED UPON THE PRIOR REVIEW AND APPROVAL OF THE SHOP DRAWINGS OR SUBMITTALS BY THE CONTRACTOR AS REQUIRED IN THE CONSTRUCTION CONTRACT AND THE CONTRACTOR'S SUBMITTAL OF THE SHOP DRAWINGS AND OTHER SUBMITTALS IN ACCORDANCE WITH A WRITTEN SCHEDULE DISTRIBUTED IN ADVANCE TO THE ENGINEER IDENTIFYING THE DATES FOR THE SUBMITTAL OF THE VARIOUS SHOP DRAWINGS AND SUBMITTALS.
10. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF TLC ENGINEERING SOLUTIONS, INC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.
11. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXCEED LIFE SPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER. THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.
12. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED STEEL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
13. IN THE PROFESSIONAL OPINION OF TLC ENGINEERING SOLUTIONS, INC. THE STRUCTURAL CONTRACT DOCUMENTS FOR THIS PROJECT HAVE BEEN PREPARED IN ACCORDANCE WITH THE DESIGN CRITERIA AS SET FORTH IN THE FLORIDA BUILDING CODE (FBC) 7th EDITION (2020)
14. NO PROVISIONS HAVE BEEN MADE FOR VERTICAL OR HORIZONTAL EXPANSION EXCEPT AS SHOWN ON CONTRACT DOCUMENTS.
15. FINISH FLOOR ELEVATION (FIRST FLOOR) OF 0'-0" IS USED AS A REFERENCE ELEVATION. SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION.
16. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF CAD FILES BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS IS PROHIBITED UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM ENGINEER OF RECORD.
17. IN THE EVENT THAT THE STRUCTURAL CONTRACTS DRAWINGS AND SPECIFICATIONS CONFLICT ON INFORMATION, THE STRUCTURAL CONTRACT DRAWINGS SHALL SUPERSEDE THE SPECIFICATIONS.

010002 DESIGN LOADS

- 1. THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 7TH EDITION (2020), AND AS SUPPLEMENTED BY LOCAL AMENDMENTS.
2. THE FOLLOWING SUPERIMPOSED LOADINGS HAVE BEEN UTILIZED:
A. DEAD LOADS:
PEMB ROOF STRUCTURE 2.5 PSF
8" CMU NON-LOAD BEARING INFILL WALLS 55 PSF
8" CMU LOAD BEARING PARTITIONS 60 PSF
B. COLLATERAL LOADS:
CEILING 5 PSF
MEP/FP 5 PSF
TOTAL: 10 PSF
C. LIVE LOADS:
ROOF 20 PSF
FLOOR (OFFICE) 50 PSF
FLOOR (HEAVY STORAGE) 250 PSF
FLOOR (MECH ROOM) 150 PSF
FLOOR (ELECTRICAL ROOM) 200 PSF
FLOOR (VEHICLE MAINTENANCE BAY) 125 PSF
D. WIND LOADS: PER FLORIDA BUILDING CODE, SECTION 1609.
SEE SHEET S003 FOR COMPONENTS AND CLADDING PRESSURES.
ULTIMATE DESIGN WIND SPEED, VuIt 135 MPH (3 SEC. GUST)
NOMINAL DESIGN WIND SPEED, Vnsd 105 MPH (3 SEC. GUST)
RISK CATEGORY II
EXPOSURE C

PROJECT IS LOCATED IN A WIND-BOURNE DEBRIS REGION. GLAZED OPENINGS IN BUILDINGS SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT-RESISTANT COVERING MEETING THE REQUIREMENTS OF ANSIDASMA 115 OR TAS 201, 202, AND 203. AAMA 506, ASTM E1996 AND ASTM E1886 OR AN APPROVED IMPACT-RESISTANT STANDARD PER FBC SECTION 1609.1.2

- 1. GLAZED OPENINGS LOCATED WITHIN 30 FEET OF GRADE SHALL MEET THE REQUIREMENTS OF THE LARGE MISSILE TEST OF ASSTM E 1996

013100 REQUEST FOR INTERPRETATION

- 1. RFI SHALL ORIGINATE WITH CONTRACTOR OR SHALL BE SUBMITTED IN THE FORM SPECIFIED WITHIN CONTRACT DOCUMENTS. RFI SHALL BE SUBMITTED IN A PROMPT MANNER AS TO AVOID DELAYS IN CONTRACTORS WORK.
2. RFI SHALL BE SUBMITTED AS SPECIFIED WITHIN THE CONTRACT DOCUMENTS AND SHALL BE FORWARDED TO THE ENGINEER VIA THE ARCHITECT OR DIRECTLY TO THE ENGINEER BY THE CONTRACTOR WHEN APPROVED BY THE ARCHITECT.
3. ENGINEER SHALL TAKE UP TO 5 BUSINESS DAYS TO REVIEW AND RETURN RFIS. HOWEVER, THE ENGINEER WILL ATTEMPT TO EXPEDITE THE REVIEW OF ALL RFIS WITHIN A REASONABLE TIME FRAME.
4. RFI RESPONSES ARE NOT INTENDED TO AUTHORIZE ANY INCREASE IN CONSTRUCTION COST, SCHEDULE OR TIME EXTENSIONS, OR CONSTRUCTION IN CONFLICT WITH ANY APPLICABLE CODES OR SPECIFIED DESIGN STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DESIGN TEAM IMMEDIATELY OF ANY PERCEIVED SCOPE, SCHEDULE, OR COST IMPACTS OR ADJUSTMENTS. IF CONTRACTOR REQUESTS ANY ADDITIONAL COST, INCREASE IN SCHEDULE OR ADJUSTMENT IN SCOPE, THE CONTRACTOR SHALL NOT PROCEED WITH ADDITIONAL WORK UNTIL APPROVED IN WRITING BY THE CONSTRUCTION ADMINISTRATOR.

013301 SHOP DRAWING REVIEW

- 1. SHOP DRAWINGS SHALL ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN ON THE CONTRACT DOCUMENTS. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. REVIEW OF SUBMITTALS AND SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS.
2. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. NON-CONFORMING DRAWING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
3. THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER OF RECORD.
4. CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER OF RECORD REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL. CONTRACTOR IS RESPONSIBLE FOR COSTS CAUSED BY MULTIPLE RE-SUBMITTALS (MORE THAN ONE) AT ARCHITECT/ENGINEERS' CURRENT HOURLY RATES.

013302 SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS

- 1. THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS PREPARED BY A DELEGATED ENGINEER:
A. PRE-ENGINEERED METAL BUILDINGS
B. TEMPORARY SHORING / BRACING
C. PRE-ENGINEERED ALUMINUM CANOPIES
2. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND DRAWINGS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. SHOP DRAWINGS AND CALCULATIONS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.
3. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER.
4. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA AS AN INDICATION THAT HE/SHE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED SET FOR THEIR RECORDS.
5. DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING, DO NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
6. CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
7. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:
A. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
B. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.
C. THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.
D. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.
8. SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED AND WILL BE RETURNED.

013303 SUBMITTALS

- 1. ALL SHOP DRAWINGS MUST BE REVIEWED AND STAMPED APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
2. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
• ITEMS MARKED (D) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
• ITEMS MARKED (#) SHALL BE SUBMITTED FOR ENGINEERS RECORD ONLY.
A. STRUCTURAL STEEL
B. REINFORCING STEEL
C. TEMPORARY SHORING AND BRACING (D)
D. CONCRETE MIX DESIGNS
E. CONSTRUCTION JOINT LOCATIONS IN STRUCTURAL FLOORS
F. PRE-ENGINEERED METAL BUILDINGS (D)
G. TEMPORARY WALL BRACING (D)
H. MECHANICAL ANCHORS (#)
I. CHEMICAL (ADHESIVE) ANCHORS (#)
3. MANUFACTURER'S LITERATURE. SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.

032000 REINFORCING STEEL

- 1. SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
2. PROVIDE CONCRETE COVER OVER PRIMARY REINFORCEMENT, TIES, AND STIRRUPS, AS FOLLOWS, UNLESS OTHERWISE NOTED:
LOCATION AND CONDITION MINIMUM COVER
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH. ALL BARS 3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER #6 OR GREATER 2" #5 OR SMALLER 1.5"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, WALLS, AND JOISTS #11 OR SMALLER 3/4" ALL BARS 1.5"
3. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.
4. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF ALL TOP BARS.
5. WHERE REINFORCING IS SHOWN CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORTS AND TOP BARS AT CENTER OF SPAN. ALL OTHER LAP SPLICES SHALL BE IN ACCORDANCE WITH SPLICE TABLES AND DETAILS SHOWN ON DRAWINGS.
6. PROVIDE DOWELS INTO FOOTINGS, PILE CAPS, SUPPORT BEAMS, ETC. TO MATCH VERTICAL BARS WITH CLASS B TENSION LAP SPLICES, U.N.O.
7. AT CHANGES IN DIRECTION OF TIE BEAMS, PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL STEEL.
8. WHERE HOOKS ARE SHOWN ON THE PLANS OR DETAILS, HOOKS SHALL BE DETAILED TO EXTEND DEEP ENOUGH INTO SUPPORTING STRUCTURE TO DEVELOP THE FULL STRENGTH OF THE HOOKED BAR. PROVIDE ADDITIONAL TIES OR STIRRUPS IN SUPPORTING STRUCTURE AS REQUIRED TO SATISFY ACI 318 HOOK DEVELOPMENT, CONFINEMENT, AND ANCHORAGE CRITERIA.

032004 WELDED WIRE FABRIC

- 1. SHALL CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
2. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES.
3. USE OF FLAT MANUFACTURED SHEETS IS REQUIRED (NO ROLLS).
4. INSTALL WWF ON BRICKS OR BOLSTERS AT MID DEPTH OF SLAB U.N.O.; SPACING OF SUPPORTS SHALL BE ADEQUATE TO PREVENT SHIFTING OF WWF DURING CONSTRUCTION, BUT SHALL NOT EXCEED 24" O.C.

032202 CONSTRUCTION JOINTS

- 1. ANY DEVIATION OR ADDITION OF CONSTRUCTION JOINTS FROM THAT SHOWN ON THE DRAWINGS MUST BE REVIEWED AND APPROVED IN WRITING BY THE ENGINEER OF RECORD.
2. ALTERNATE OR ADDED CONSTRUCTION JOINT LOCATIONS ARE ACCEPTABLE ONLY AS A CHANGE ORDER, WHICH WILL INCLUDE ENGINEERING CHARGES BY THE ENGINEER OF RECORD FOR REDESIGN OF THE STRUCTURE, SHORING, ETC.

033000 CONCRETE

- 1. SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX.
CONCRETE TYPE COMPRESSIVE STRENGTH SLUMP MAXIMUM AGGREGATE MAXIMUM W/C RATIO
FOUNDATIONS 4000 PSI 4-6" 1" 0.48
SLABS-ON-GRADE 4000 PSI 4-6" 1" 0.48
TIE BEAMS 4000 PSI 4-6" 3/8" 0.48
2. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.
3. SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE.
4. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED.
5. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.
6. SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1-CLASS D AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY.
7. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.
8. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.
9. CONDUITS, PIPES AND SLEEVES SHALL BE PLACED AND SPACED IN ACCORDANCE WITH ACI 318, 6.3.
10. CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318.
11. ALL COLUMNS AND BEAMS INTEGRATED IN CMU WALLS ARE 8" AND 12" NOMINAL AND 7-5/8" AND 11-5/8" ACTUAL DIMENSIONS.
12. CONCRETE SLABS ON GRADE SHALL BE REINFORCED WITH MACRO-SYNTHETIC FIBERS AT A MINIMUM RATE OF 3.0 LBS/CY, OR AS RECOMMENDED BY THE FIBER MANUFACTURER FOR CONTROL OR TEMPERATURE AND SHRINKAGE/CRACKING, WHICHEVER IS GREATER.
13. CONCRETE SLABS ON GRADE SHALL BE REINFORCED AS INDICATED ON PLAN
14. WHEN ADHESIVES OR WATER VAPOR IMPERMEABLE FLOOR COVERINGS ARE BEING USED ON CONCRETE SURFACES, THE CONTRACTOR SHALL VERIFY THROUGH APPROPRIATE TESTING THAT THE WATER CONTENT OF THE CONCRETE, AND VAPOR TRANSMISSION RATE THROUGH THE CONCRETE, IS WITHIN THE ALLOWABLE RANGE BEFORE INSTALLATION. THE MANUFACTURER OF THE ADHESIVE OR FLOOR COVERING SHALL REVIEW AND APPROVE THE RESULTS OF THE TESTING PRIOR TO INSTALLATION OF PRODUCTS.

036001 CHEMICAL (ADHESIVE) ANCHORS

- 1. SHALL BE A TWO PART EPOXY POLYMER INJECTION SYSTEM, SUCH AS HILTI HIT HY200, HILTI RES500 SD, DEWALT D-FUR 110+, DEWALT AC208+, OR SIMPSON SET ADHESIVE SYSTEM, OR ENGINEER APPROVED SUBSTITUTION.
2. EPOXY TYPES AND BRANDS VARY IN THEIR BOND STRENGTH AND SUITABILITY OF USE, DEPENDING ON TYPE OF LOADING, ANCHOR SPACING, ETC. WHEN A PARTICULAR TYPE OF EPOXY IS SPECIFIED IN THESE DRAWINGS, A UNIQUE CALCULATION HAS BEEN MADE BASED ON THE PROPERTIES OF THAT SPECIFIC TYPE OF EPOXY FOR THE SPECIFIC CONDITION SHOWN IN THE DETAIL. SUBSTITUTION OF EPOXY TYPE IS NOT ALLOWED WHERE DETAIL SPECIFIES ONLY ONE TYPE OF EPOXY, WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD. NOT ALL EPOXY BRANDS OR TYPES WILL BE ALLOWED AS SUBSTITUTES. ICC-ES REPORTS FOR PROPOSED ANCHOR SUBSTITUTIONS MUST BE SUBMITTED TO EOR FOR REVIEW. EOR MAY REQUIRE ENGINEERED CALCULATIONS FOR REVIEW AND APPROVAL.
3. SUBSTITUTION OF EPOXIES IN ONE CONDITION SHALL NOT BE CONSTRUED AS APPROVAL TO MAKE SIMILAR SUBSTITUTION OF EPOXIES IN OTHER DIFFERING CONDITIONS. EACH SUBSTITUTION MUST RECEIVE PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD.
4. INSTALL ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI) IN CONJUNCTION WITH EDGE DISTANCE, SPACING, AND EMBEDMENT SPECIFIED ON DRAWINGS.
5. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACQICRSI (ACI 318-14 D.9.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
6. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS FOR ALL PRODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK. ONLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE KEPT ON SITE AND MADE AVAILABLE TO THE EOR AS REQUESTED.
7. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL HOLE CLEAN-OUT REQUIREMENTS ARE FULLY COMPLETED BY THE INSTALLERS PRIOR TO INJECTING EPOXY INTO THE HOLES IN ACCORDANCE WITH THE MANUFACTURERS MPI.
8. NO LOAD SHALL BE APPLIED TO THE EPOXY ANCHORS UNTIL THE EPOXY HAS FULLY CURED AND HAS ACHIEVED ITS SPECIFIED STRENGTH. CURE TIME SHALL BE PER MANUFACTURERS PUBLISHED VALUES FOR SPECIFIC PRODUCT BEING USED.
9. IF DETAIL SHOWS EPOXY ANCHORS IN SLOTTED HOLES, IT IS IMPERATIVE THAT ANY EXCESS EPOXY IS CLEANED UP FROM AROUND THE ANCHOR ROD, SO THAT IT DOES NOT INTERFERE WITH ADJUSTABILITY OF ANCHOR ROD IN SLOTTED HOLE.
10. ADHESIVE ANCHORS IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED, UNCRACKED, AND SEISMIC CONCRETE RECOGNITION.
11. ADHESIVE ANCHORS IN MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC70.
12. EXISTING REINFORCING IN CONCRETE AND/OR MASONRY CONSTRUCTION SHALL NOT BE CUT UNLESS APPROVED BY THE EOR.
13. ADHESIVE ANCHORS IN CONCRETE AND/OR MASONRY CONSTRUCTION SHALL NOT BE INSTALLED UNTIL CONCRETE AND/OR MASONRY HAS CURED FOR AT LEAST 21-DAYS.
14. PROVIDE SPECIAL INSPECTION FOR ALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE AND THE CURRENT ICC-ES REPORT (IBC 2018 TABLE 1705.3 NOTE B).
15. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY AN INSPECTOR SPECIALLY APPROVED FOR THAT PURPOSE BY THE BUILDING OFFICIAL (ACI 318-14 CHAPTER 17).

036002 MECHANICAL ANCHORS

- 1. SHALL BE EITHER HEAVY DUTY CONCRETE SCREW ANCHOR (SUCH AS DEWALT SCREW-BOLT +, SIMPSON TITEN HD, OR HILTI HUS-H) OR WEDGE TYPE EXPANSION ANCHOR (SUCH AS DEWALT POWER-STUD+SD1, SIMPSON WEDGE-ALL, OR HILTI KWIK BOLT TZ).
2. TYPE OF ANCHOR SHALL BE AS SPECIFIED ON THE DRAWINGS, WHILE BRAND AND MODEL OF ANCHOR MAY BE SELECTED FROM THE ABOVE LISTED ANCHORS. SUBSTITUTION ANCHORS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE. ICC-ES REPORTS FOR PROPOSED ANCHOR SUBSTITUTES MUST BE SUBMITTED TO EOR FOR REVIEW. EOR MAY REQUEST ENGINEERED CALCULATIONS FOR REVIEW AND APPROVAL.
3. IN SOME CASES OF CRITICAL LOADING OR GEOMETRIC CONDITIONS, ONLY SPECIFIC ANCHORS WILL BE ALLOWED, AS NOTED ON THE DRAWINGS. IN THESE CASES, THE SPECIFIED BRAND AND MODEL OF ANCHOR MUST BE USED.
4. INSTALL ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI) IN CONJUNCTION WITH EDGE DISTANCE, SPACING, AND EMBEDMENT SPECIFIED ON DRAWINGS.
5. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS FOR ALL PRODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK. ONLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE KEPT ON SITE AND MADE AVAILABLE TO THE EOR AS REQUESTED.
6. MINIMUM EMBEDMENT DEPTH OF 1/4" TAPCONS OR POWERS TAPPER + INSTALLED IN CONCRETE SHALL BE 1.25" AND INSTALLED INTO MASONRY SHALL BE 1.5". SELECT ANCHOR LENGTH AS REQUIRED TO ACHIEVE THE SPECIFIED MINIMUM EMBEDMENT DEPTH.
7. TAPCON SCREWS, OR DEWALT TAPPER +, MAY BE REPLACED W/ 0 157" SHANK DIAMETER PAF ANCHORS (HILTI X-U, POWERS CSI, OR APPROVED EQUAL) ON A 1:1 SUBSTITUTION BASIS. MINIMUM EMBEDMENT DEPTH SHALL BE 1.25" WHEN INSTALLED INTO CONCRETE OR GROUDED MASONRY. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS, MINIMUM EDGE DISTANCES, AND PLACEMENT LIMITATIONS (RELATIVE TO MORTAR JOINTS IN MASONRY).
8. MECHANICAL ANCHORS IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC 193 FOR CRACKED, UNCRACKED AND SEISMIC CONCRETE RECOGNITION.
9. MECHANICAL ANCHORS IN MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106.
10. POWER ACTUATED FASTENERS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC085 AC70.
11. EXISTING REINFORCING BARS IN CONCRETE AND/OR MASONRY CONSTRUCTION SHALL NOT BE CUT UNLESS APPROVED BY THE EOR.
12. ANCHORS SHALL NOT BE INSTALLED IN CONCRETE AND/OR MASONRY CONSTRUCTION UNTIL THE CONCRETE AND/OR MASONRY HAS CURED FOR AT LEAST 21-DAYS.
13. PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL POST INSTALLED ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE AND THE CURRENT ICC-ES REPORT (IBC 2018 TABLE 1705.3 NOTE B).

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Table with 2 columns: REVISIONS, and empty rows for revision tracking.

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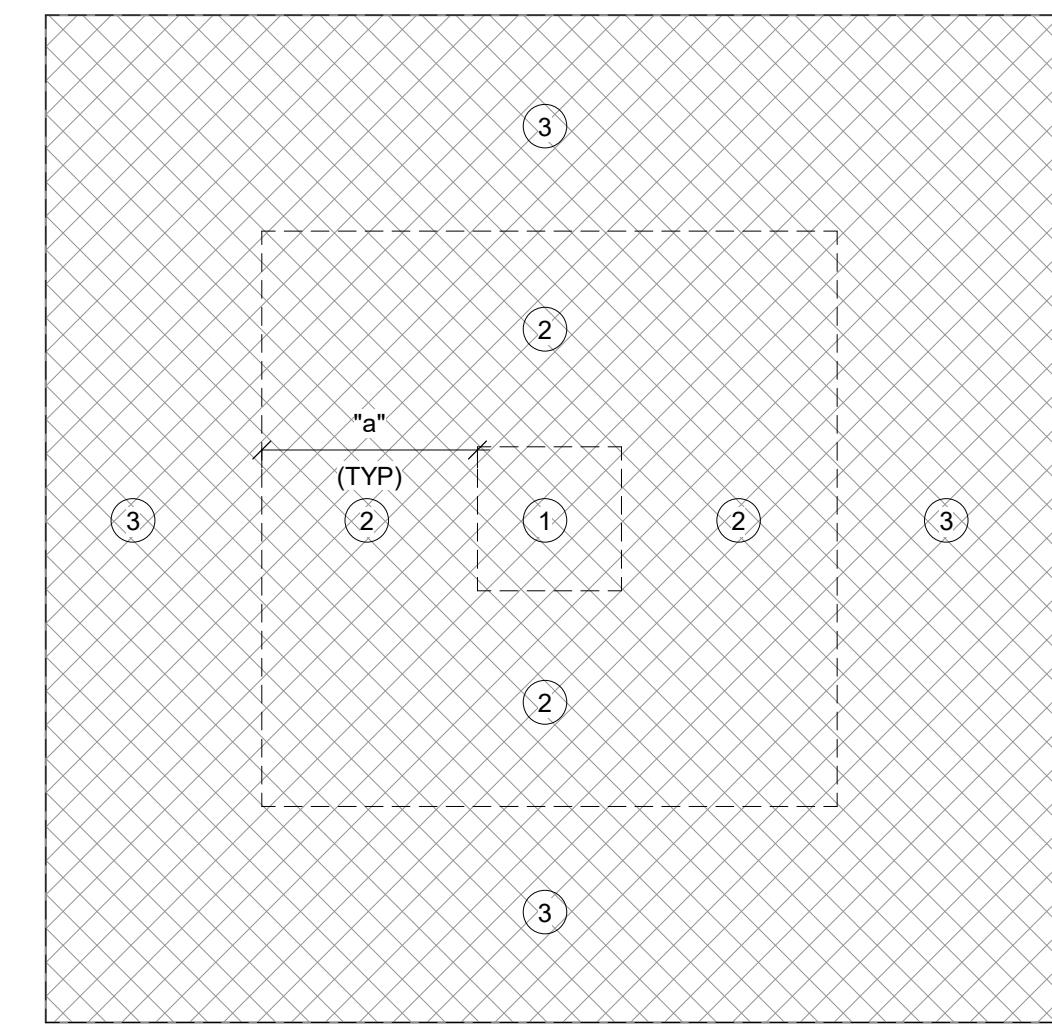
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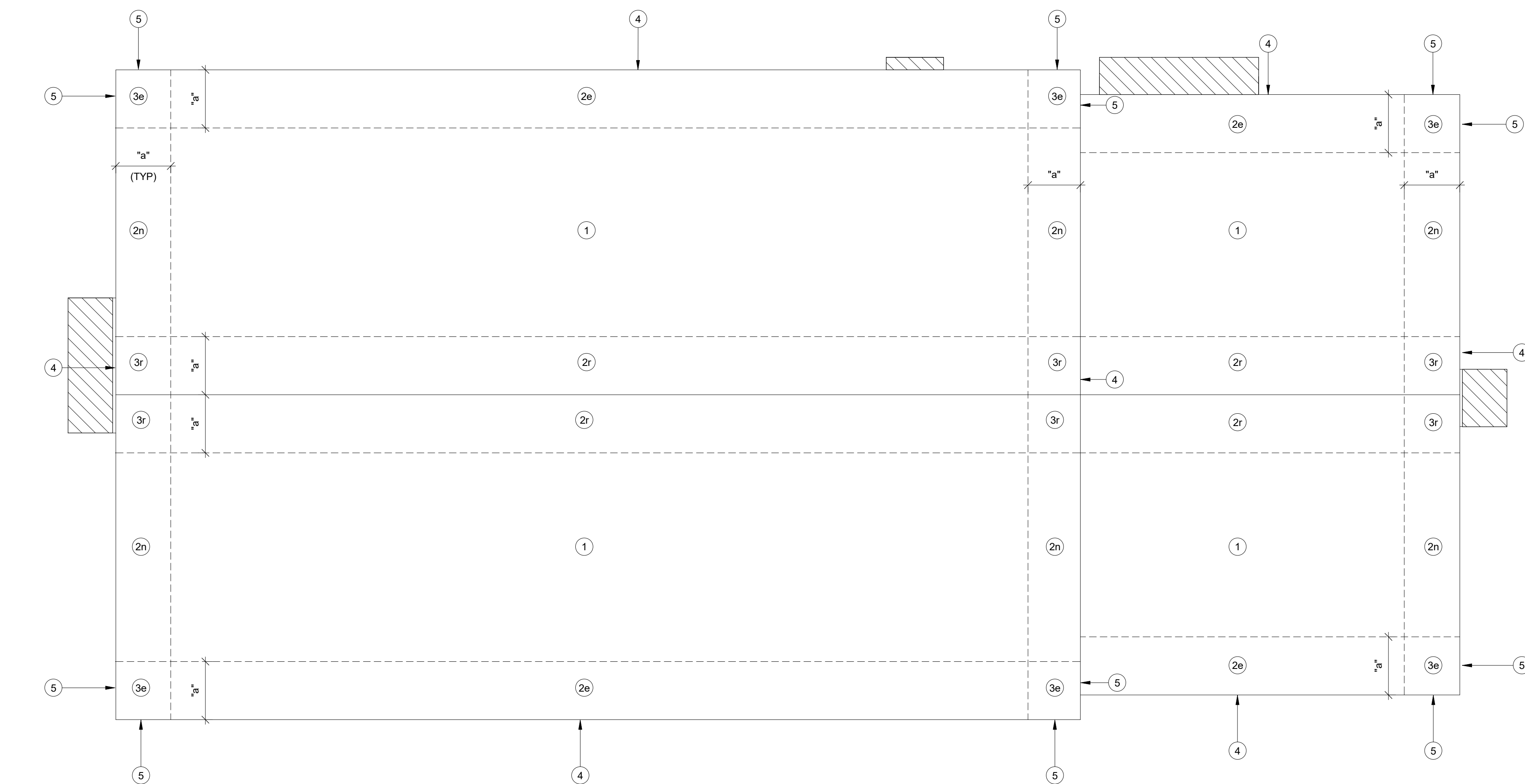
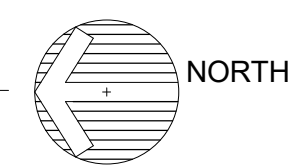
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CONSTRUCTION DOCUMENTS
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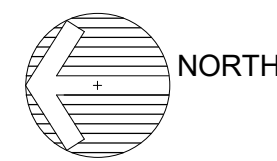
STRUCTURAL GENERAL NOTES
S001
ISSUE DATE 07-12-22



1 OPEN CANOPY COMPONENTS AND CLADDING
3/8" = 1'-0"



2 COMPONENTS AND CLADDING WIND LOAD DIAGRAM
1/8" = 1'-0"

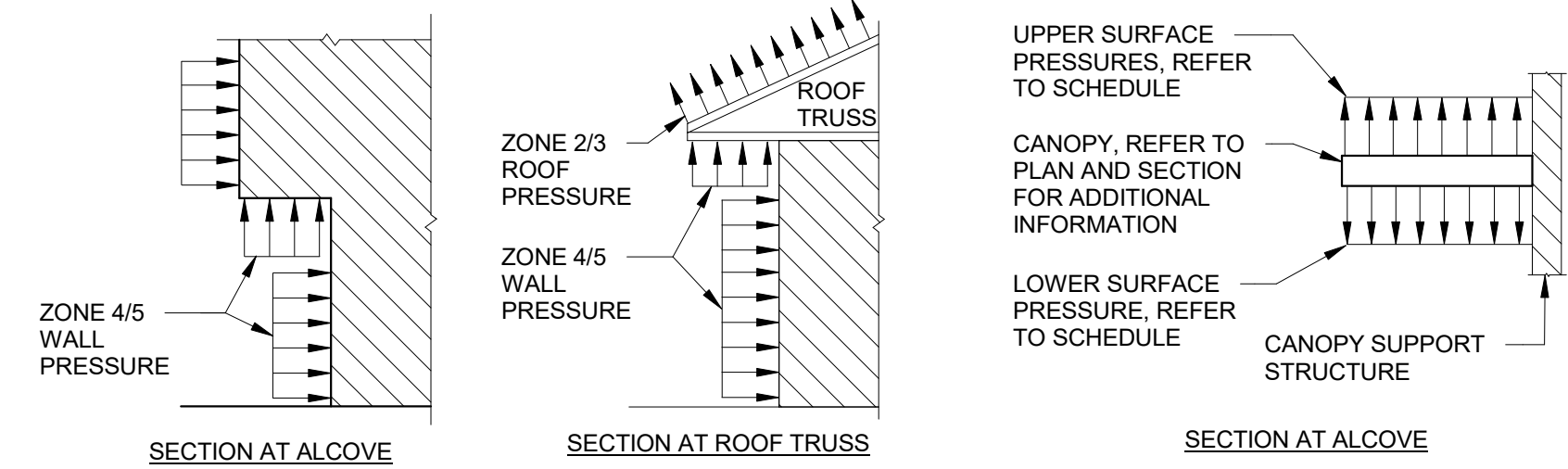


NOMINAL C&C WIND PRESSURES (ASCE 7-16)														
BUILDING	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ROOF					WALL		OVERHANG	
						ZONE (1) (PSF)	ZONE (2e) (PSF)	ZONE (2r) (PSF)	ZONE (3e) (PSF)	ZONE (3r) (PSF)	ZONE (4) (PSF)	ZONE (5) (PSF)	ZONE (2e) (PSF)	ZONE (3e) (PSF)
						<10	+16.2 -49.3	+16.2 -49.3	+16.2 -71.9	+16.2 -71.9	+16.2 -85.4	+26.7 -28.9	+26.7 -35.7	+16.2 -56.5
MAIN	6'-1"	21'-9"	135	105	20	+14.6 -49.3	+14.6 -49.3	+14.6 -62.1	+14.6 -62.1	+14.6 -73.2	+25.5 -27.7	+25.5 -33.3	+14.6 -56.5	+14.6 -80
					50	+12.5 -30.0	+12.5 -30.0	+12.5 -49.3	+12.5 -49.3	+12.5 -57.0	+23.9 -26.1	+23.9 -30.1	+12.5 -43.6	+12.5 -63.3
					100+	+10.8 -15.4	+10.8 -15.4	+10.8 -39.5	+10.8 -39.5	+10.8 -44.8	+22.7 -24.9	+22.7 -27.7	+10.8 -33.9	+10.8 -50.6

CANOPY NOMINAL C&C WIND PRESSURES (ASCE 7-16)								
BUILDING	a (FT)	Vult (MPH)	Vasd (MPH)	SEPARATE INDIVIDUAL SURFACES	A (SF)			
					<10 SF	20 SF	50 SF	>100 SF
WALL MOUNTED CANOPY	3'-0"	135	105	UPPER SURFACE NEGATIVE PRESSURE	-25.5	-24.5	-21.4	-16.3
				LOWER SURFACE NEGATIVE PRESSURE	-18.1	-17.7	-16.6	-14.7
				UPPER OR LOWER SURFACE POS PRESSURE	+18.1	+17.6	+16.1	+13.6
BUILDING	a (FT)	Vult (MPH)	Vasd (MPH)	CANOPY ZONES	<9 SF (PSF)	<36 SF (PSF)	>36 SF (PSF)	--
OPEN STORAGE CANOPY	3'-0"	135	105	1	+20.6 -18.9	+20.6 -18.9	+20.6 -18.9	--
				2	+30.9 -29.2	+30.9 -29.2	+20.6 -18.9	--
				3	+41.2 -56.7	+30.9 -29.2	+20.6 -18.9	--

NOMINAL C&C WIND PRESSURE PLAN NOTES:

- PRESSURES SHOWN ABOVE ARE NOMINAL COMPONENTS AND CLADDING PRESSURES, CONVERTED FROM ULTIMATE PRESSURES USING A 0.6 MULTIPLIER FACTOR. NO FURTHER REDUCTION IS ALLOWED.
A - INDICATES TRIBUTARY AREA IN S.F.
a - INDICATES END ZONE WIDTH IN FT.
h - MEAN ROOF HEIGHT IN FT.
Vult - INDICATES ULTIMATE DESIGN WIND SPEED IN MPH
Vasd - INDICATES NOMINAL DESIGN WIND SPEED IN MPH
- GROSS PRESSURES ARE FOR JOISTS, WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING.
- GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE.
- POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.
- ROOF AND ZONES 1 THRU 3
- WALL ZONES 4 AND 5
- NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELFWEIGHT (DEAD LOAD) OF THE MATERIALS. HOWEVER, THE MAXIMUM REDUCTION OF WIND UPLIFT PRESSURES SHALL BE LIMITED TO THE SELF WEIGHT OF THE ROOF SYSTEM PLUS 5 PSF FOR SUPERIMPOSED DEAD LOADS.
- INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDING EQUALS +0.18 AND -0.18. INTERNAL PRESSURE COEFFICIENT FOR OPEN STRUCTURE EQUALS +/- 0.00.
- ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR A LATERAL PRESSURE OF XX PSF AND A SIMULTANEOUS UPLIFT PRESSURE OF XX PSF (ROOF TOP EQUIPMENT PER FBC SECTION 1620.6 WITH Qh = XX PSF)
- AT ALCOVES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT SHALL EQUAL THE WALL PRESSURE IN THAT AREA.



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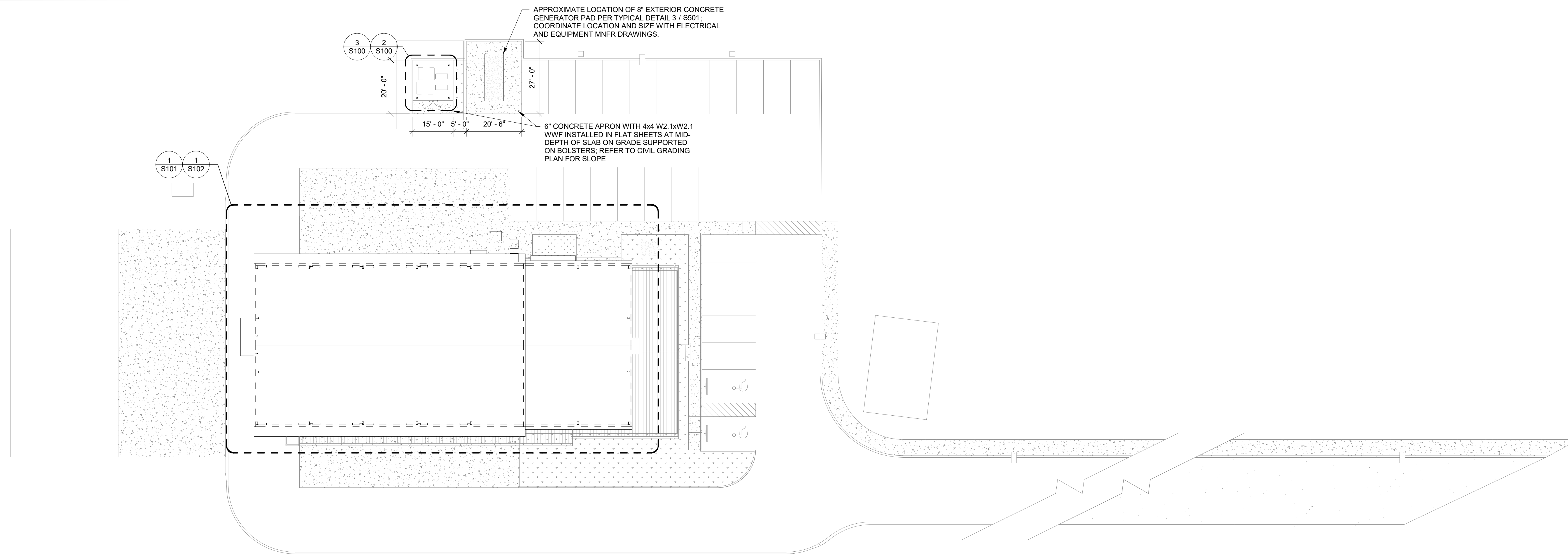
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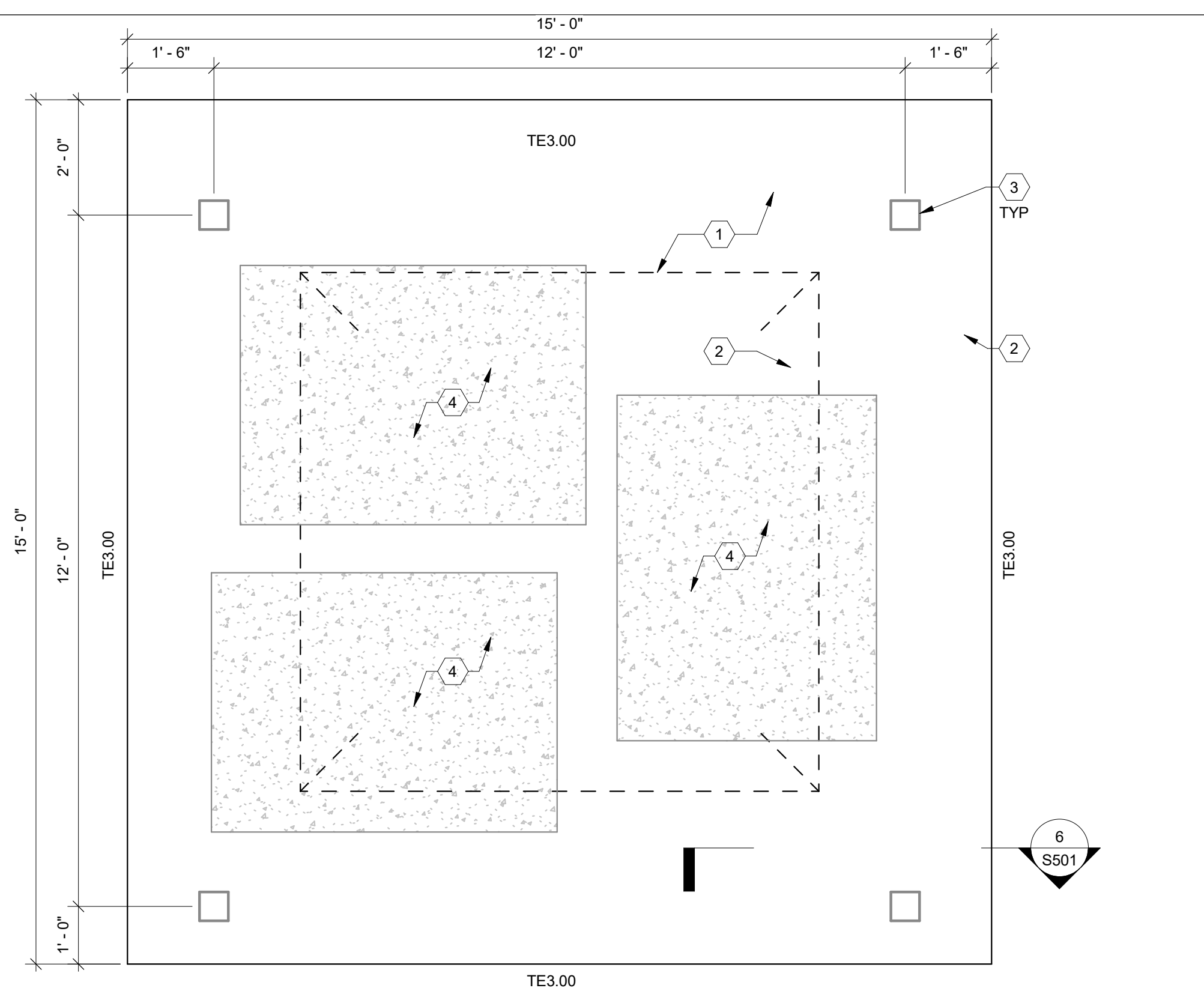
COMPONENTS AND CLADDING WIND LOAD DIAGRAMS
S003
ISSUE DATE 07-12-22

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1 OVERALL SITE PLAN
1" = 20'-0"

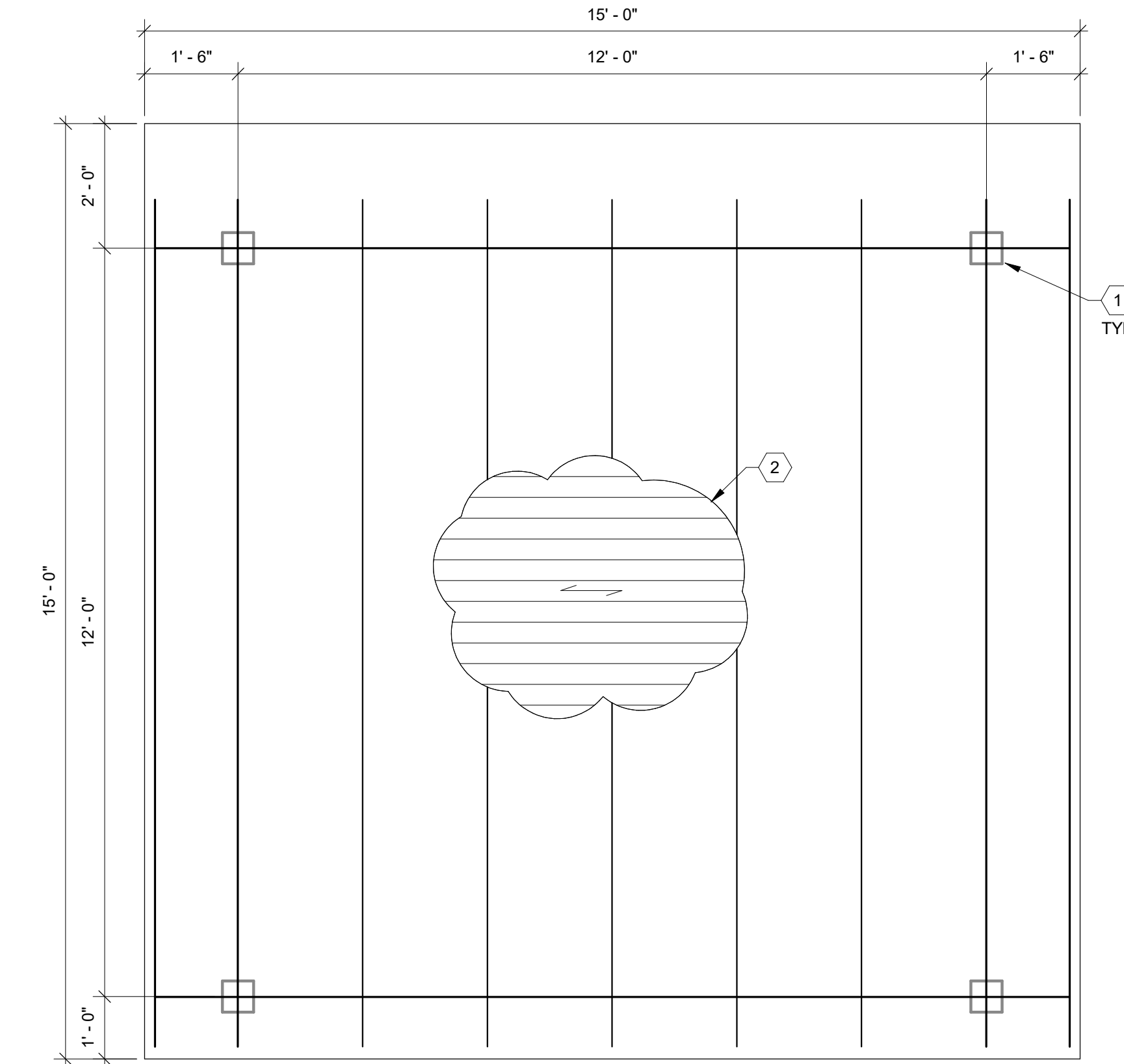


2 STORAGE CANOPY FOUNDATION PLAN
1/2" = 1'-0"

- KEYNOTE LEGEND** #
- 6" CONCRETE SLAB ON GRADE REINFORCED WITH 4x4 W2.1xW2.1 WWF INSTALLED IN FLAT SHEETS AT MID-DEPTH OF SLAB ON GRADE SUPPORTED ON BOLSTERS OVER A 10 MIL CLASS A VAPOR BARRIER AND WELL COMPACTED FILL.
 - TE3.00 INDICATES CONTINUOUS SLAB EDGE AROUND PERIMETER OF SLAB ON GRADE PER TYPICAL DETAIL 6 / S501
 - PRE-ENGINEERED ALUMINUM CANOPY COLUMN AND ATTACHMENT TO SLAB ON GRADE PER DELEGATED SPECIALTY ENGINEER.
 - 6" CONCRETE EQUIPMENT PAD PER TYPICAL DETAIL 1 / S501. COORDINATE LOCATION AND DIMENSIONS OF EQUIPMENT PADS WITH MEP AND EQUIPMENT MNFR DRAWINGS.

ELEVATIONS:
T/SLAB: EL. 0'-0", UNO

NOTE: PRE-ENGINEERED ALUMINUM CANOPY DESIGN ASSUMES COLUMNS ARE PINNED AT THE FOUNDATION.



3 STORAGE CANOPY ROOF FRAMING PLAN
1/2" = 1'-0"

- KEYNOTE LEGEND** #
- PRE-ENGINEERED ALUMINUM CANOPY FRAMING AND DECKING PER DELEGATED SPECIALTY ENGINEER, REFER TO ARCHL DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION.
 - PRE-ENGINEERED ALUMINUM CANOPY COLUMN PER DELEGATED SPECIALTY ENGINEER.

ELEVATIONS:
T/CANOPY: EL. 10'-0", UNO

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SITE PLAN
S100
ISSUE DATE 07-12-22
JOB # GC-20-033

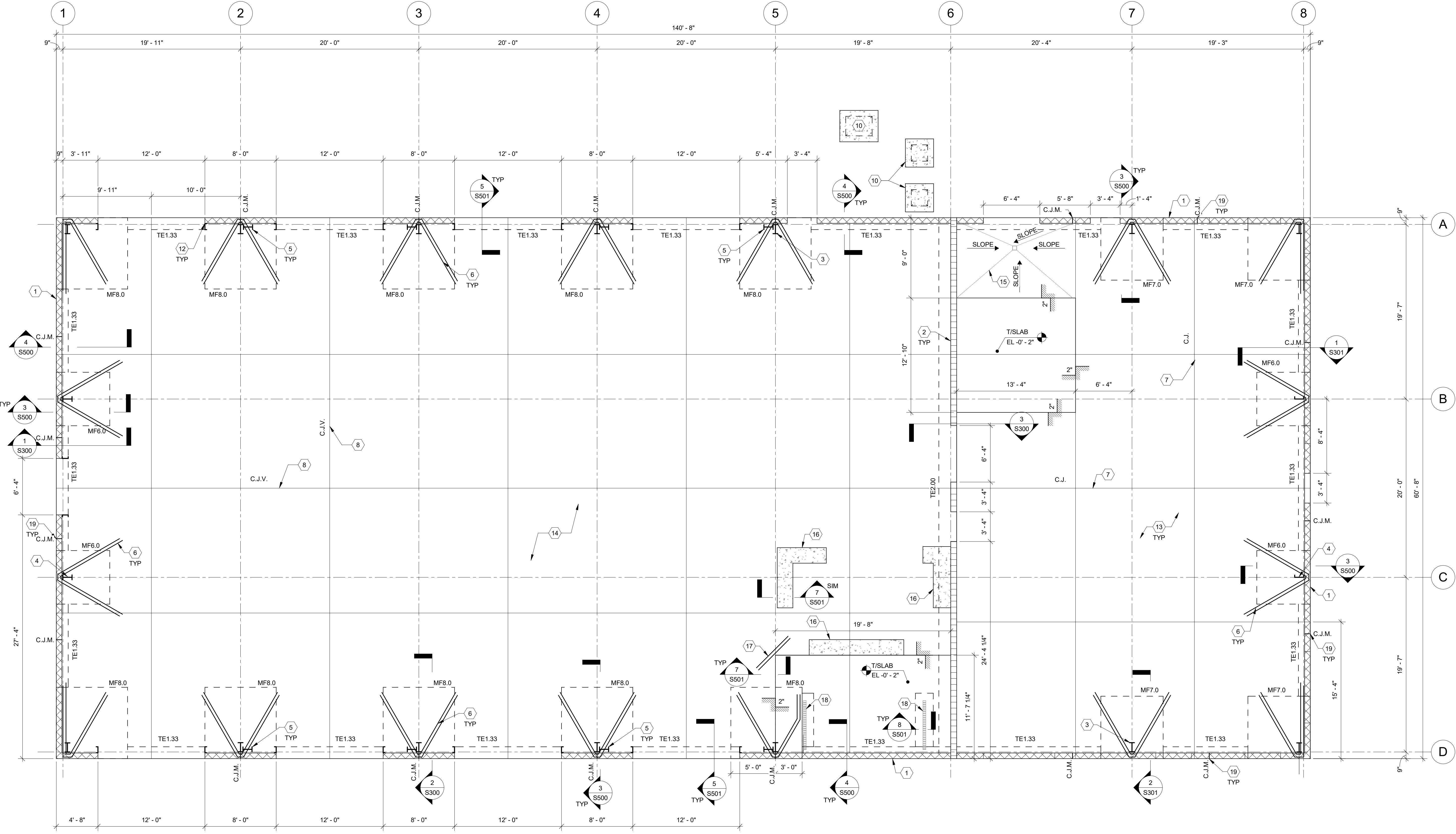
KEYNOTE LEGEND (#)

- 1. [Symbol] INDICATES 8" EXTERIOR NON-LOAD BEARING SPLIT FACE MASONRY INFLILL WALL REINFORCED WITH #5 BARS AT 32" O.C. AND AT WALL JAMBS, TERMINATIONS, AND INTERSECTIONS IN GROUT FILLED CELLS.
- 2. [Symbol] INDICATES 8" LOAD BEARING SPLIT FACE MASONRY WALL REINFORCED W/ #5 VERTICAL BARS AT 32" O.C. AND AT WALL JAMBS, TERMINATIONS, AND INTERSECTIONS IN GROUT FILLED CELLS.
- 3. PRE-ENGINEERED INTERIOR FRAME COLUMN PER PEMB MNFR.
- 4. PRE-ENGINEERED END FRAME COLUMN PER PEMB MNFR.
- 5. PRE-ENGINEERED PORTAL FRAME COLUMN PER PEMB MNFR.
- 6. (2) #5 HAIRPIN REINFORCING BARS PER TYPICAL DETAIL 4 / S501
- 7. C.J. INDICATES SAW-CUT CONTROL JOINT OR CONSTRUCTION JOINT PER TYPICAL DETAIL 7 / S500
- 8. C.J.V. INDICATES SAWCUT CRACK CONTROL JOINT OR CONSTRUCTION JOINT IN SLAB ON GRADE SUBJECT TO VEHICULAR LOADS PER TYPICAL DETAIL 8 / S500
- 9. 6" CONCRETE EQUIPMENT PAD PER TYPICAL DETAIL 1 / S501
- 10. APPROXIMATE LOCATION OF 6" EXTERIOR CONCRETE EQUIPMENT PAD PER TYPICAL DETAIL 2 / S501; COORDINATE LOCATION AND SIZE OF PAD WITH MECHANICAL AND EQUIPMENT MNFR DRAWINGS.
- 11. NOT USED.
- 12. PRE-ENGINEERED DOOR JAMB COLUMN AT OVERHEAD DOOR PER PEMB MNFR.
- 13. 5" CONCRETE SLAB ON GRADE REINFORCED WITH 4X4 W2.1XW2.1 WWF INSTALLED IN FLAT SHEETS SUPPORTED ON BOLSTERS OVER 10 MIL CLASS A VAPOR BARRIER AND COMPACTED FILL.
- 14. 8" CONCRETE SLAB ON GRADE REINFORCED WITH #4 BARS AT 18" O.C. SUPPORTED ON CHAIRS WITH DOWELED JOINTS PER TYPICAL DETAIL 8 / S500 OVER A 10 MIL CLASS A VAPOR BARRIER AND COMPACTED FILL.
- 15. SLOPE FLOORS TO DRAIN IN RM118. COORD FLOOR SLOPE AND DRAIN LOCATION WITH ARCH'L AND PLUMBING DRAWINGS.
- 16. 6" CONCRETE HOUSEKEEPING PAD UNDERNEATH LOCKERS SIM TO TYPICAL DETAIL 1 / S501 COORDINATE PAD DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND EQUIPMENT.
- 17. (2) #4 X 5'-0" LONG RE-ENTRANT CORNER BARS AT 4" O.C. AND 4" FROM CORNER AT MID-DEPTH OF SLAB.
- 18. APPROXIMATE LOCATION OF TRENCH DRAIN PER TYPICAL DETAIL 8 / S501; COORDINATE LOCATION WITH PLUMBING DRAWINGS; COORD ELEVATION OF DRAIN WITH THICKNESS AND SLOPE OF FLOOR FINISH.
- 19. C.J.M. INDICATES MASONRY CONTROL JOINT PER TYPICAL DETAIL 8 / S502

GENERAL NOTES

- 1. MF# INDICATES MONOLITHIC COLUMN FOUNDATION PER TYPICAL DETAIL 3 / S500
- 2. TE# INDICATES CONTINUOUS THICKENED SLAB EDGE PER TYPICAL DETAIL 4 / S500, UNO.
- 3. TS# INDICATES CONTINUOUS THICKENED SLAB UNDER INTERIOR MASONRY WALL PER TYPICAL DETAIL 5 / S500
- 4. COORDINATE LOCATION AND DIMENSIONS OF ALL CONCRETE CURBS AND EQUIPMENT PADS WITH ARCHITECTURAL AND MEP DRAWINGS.
- 5. PRE-ENGINEERED METAL BUILDING COLUMN FOUNDATIONS ARE BASED ON PRELIMINARY PRESUMPTIVE COLUMN REACTIONS. FINAL FOUNDATION DESIGN TO BE REVIEWED AGAINST PEMB COLUMN REACTIONS PROVIDED BY PEMB MNFR DELEGATED SPECIALTY ENGINEER.
- 6. EXTENSION NON-LOAD BEARING MASONRY WALLS ARE LATERALLY SUPPORTED BY THE PRE-ENGINEERED METAL BUILDING TO BE DESIGNED BY THE PRE-ENGINEERED METAL BUILDING DELEGATED SPECIALTY ENGINEER. REFER TO WALL SECTIONS ON S-300 AND S-301 FOR TYPICAL GIRT SPACING REQUIREMENTS.

ELEVATIONS:
T/SLAB: EL. 0'-0", UNO



1 FOUNDATION AND SLAB ON GRADE
3/16" = 1'-0"

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FOUNDATION AND SLAB ON GRADE PLAN
S101
 ISSUE DATE 07-12-22
 JOB #: GC-20-033

1

2

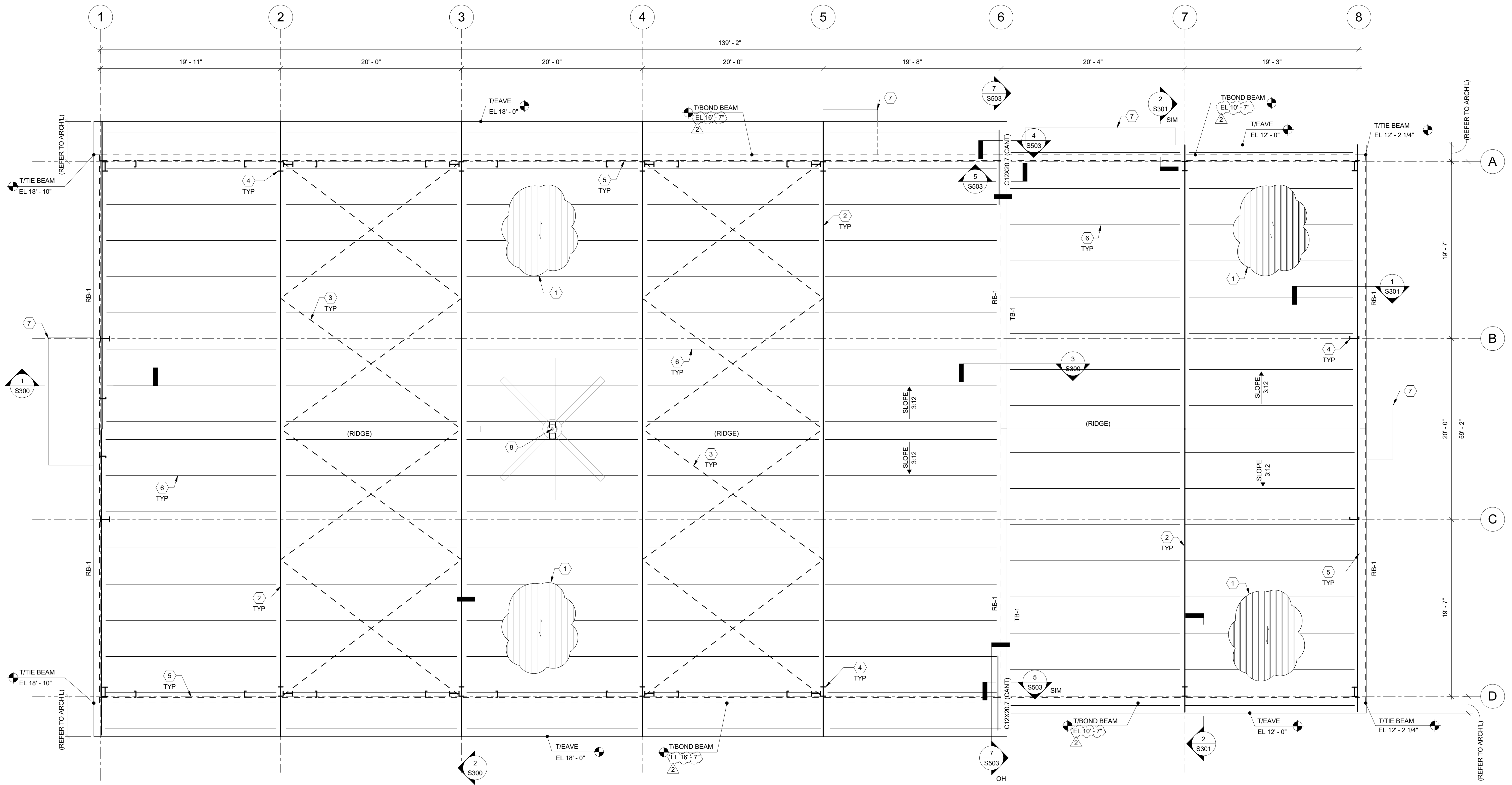
3

4

- GENERAL NOTES**
1. TB-# INDICATES CIP CONCRETE TIE BEAM PER SCHEDULE 3 / S502
 2. RB-# RAKED TIE BEAM PER TYPICAL DETAIL 5 / S502
 3. COORDINATE LOCATION AND SUPPORT OF MECHANICAL ROOF EXHAUST FANS WITH MECHANICAL DRAWINGS AND DETAILS.

- ELEVATIONS:**
- T/MAINTENANCE BAY EAVE: 18' - 0"
 - T/ADMIN BLDG EAVE: 12' - 0"
 - T/TIE BEAM: VARIES, REFER TO PLAN
 - T/ADMIN BLDG BOND BEAM: EL. 10' - 7"
 - T/MAINTENANCE BLDG BOND BEAM: EL. 16' - 7"

- KEYNOTE LEGEND #**
1. PRE-ENGINEERED METAL BUILDING ROOF DECK PER PEMB MNFR.
 2. PRE-ENGINEERED METAL BUILDING FRAME PER PEMB MNFR.
 3. PRE-ENGINEERED HORIZONTAL DIAPHRAGM BRACING PER PEMB MNFR.
 4. PRE-ENGINEERED METAL BUILDING COLUMN PER PEMB MNFR.
 5. □ INDICATES LOAD-BEARING MASONRY WALL BELOW.
 6. PRE-ENGINEERED ROOF PURLINS PER PEMB MNFR.
 7. PRE-ENGINEERED ALUMINUM CANOPY PER MANUFACTURER DELEGATED SPECIALTY ENGINEER.
 8. APPROXIMATE LOCATION OF PEX-3-16 FAN WITH MAXIMUM OPERATING WEIGHT = 300 LBS; SUSPENDED FROM PEMB ROOF PURLINS WITH (2) L3X3X1/4 STEEL ANGLES AND BAF STANDARD INDUSTRIAL 2-PURLIN MOUNTING HARDWARE; COORD LOCATION WITH ARCH'L REFLECTED CEILING PLAN.



1 ROOF FRAMING PLAN
3/16" = 1'-0"

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1	17/22	FIRE DEPT COMMENTS / O.C.
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ROOF FRAMING PLAN

S102
 ISSUE DATE 07-12-22

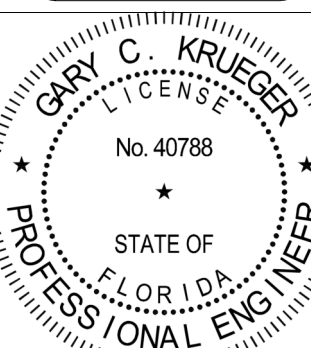
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REVISIONS
1/17/22 FIRE DEPT COMMENTS / O.C.

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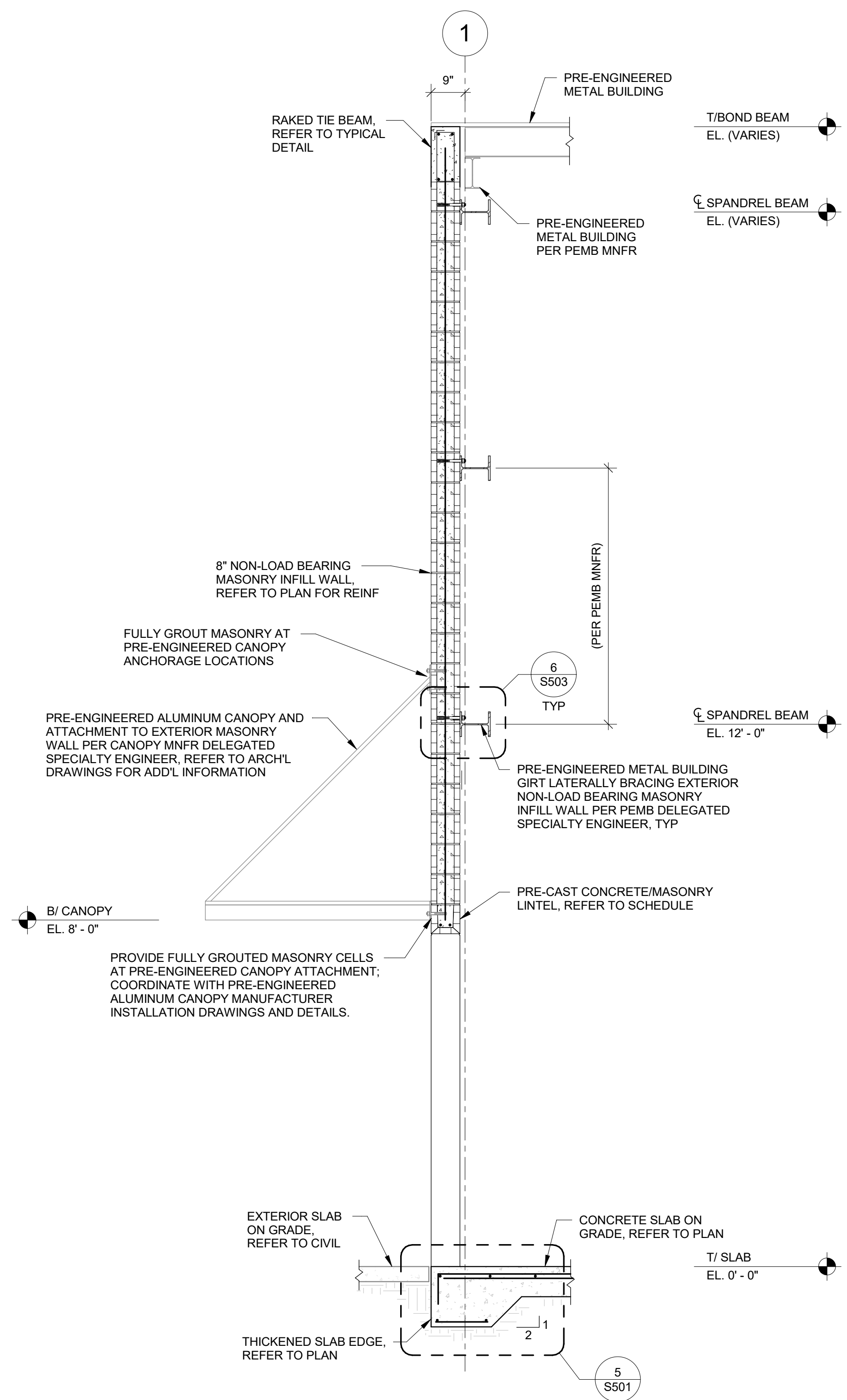
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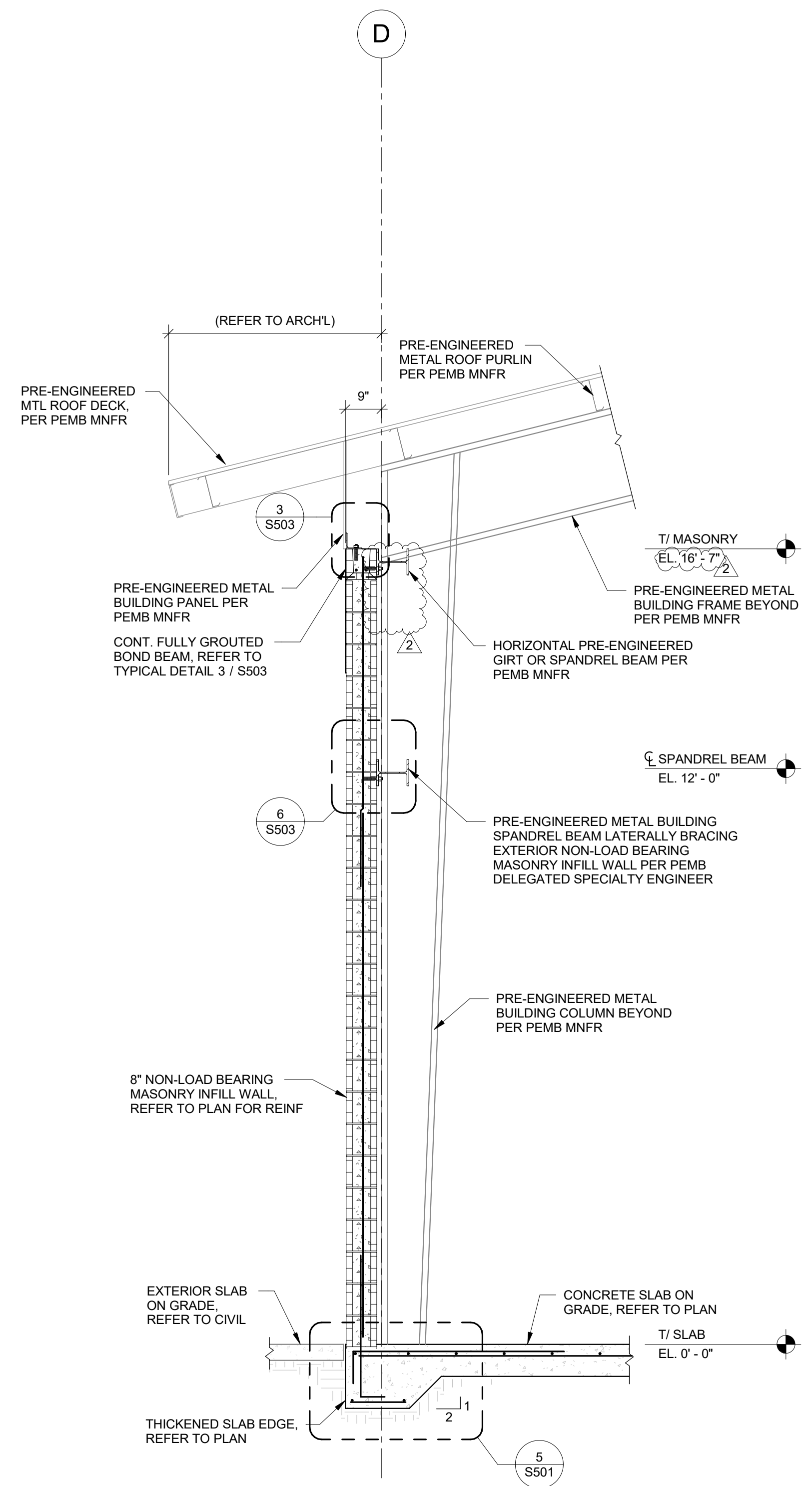
SECTIONS
S300
ISSUE DATE 07-12-22
JOB # GC-20-033

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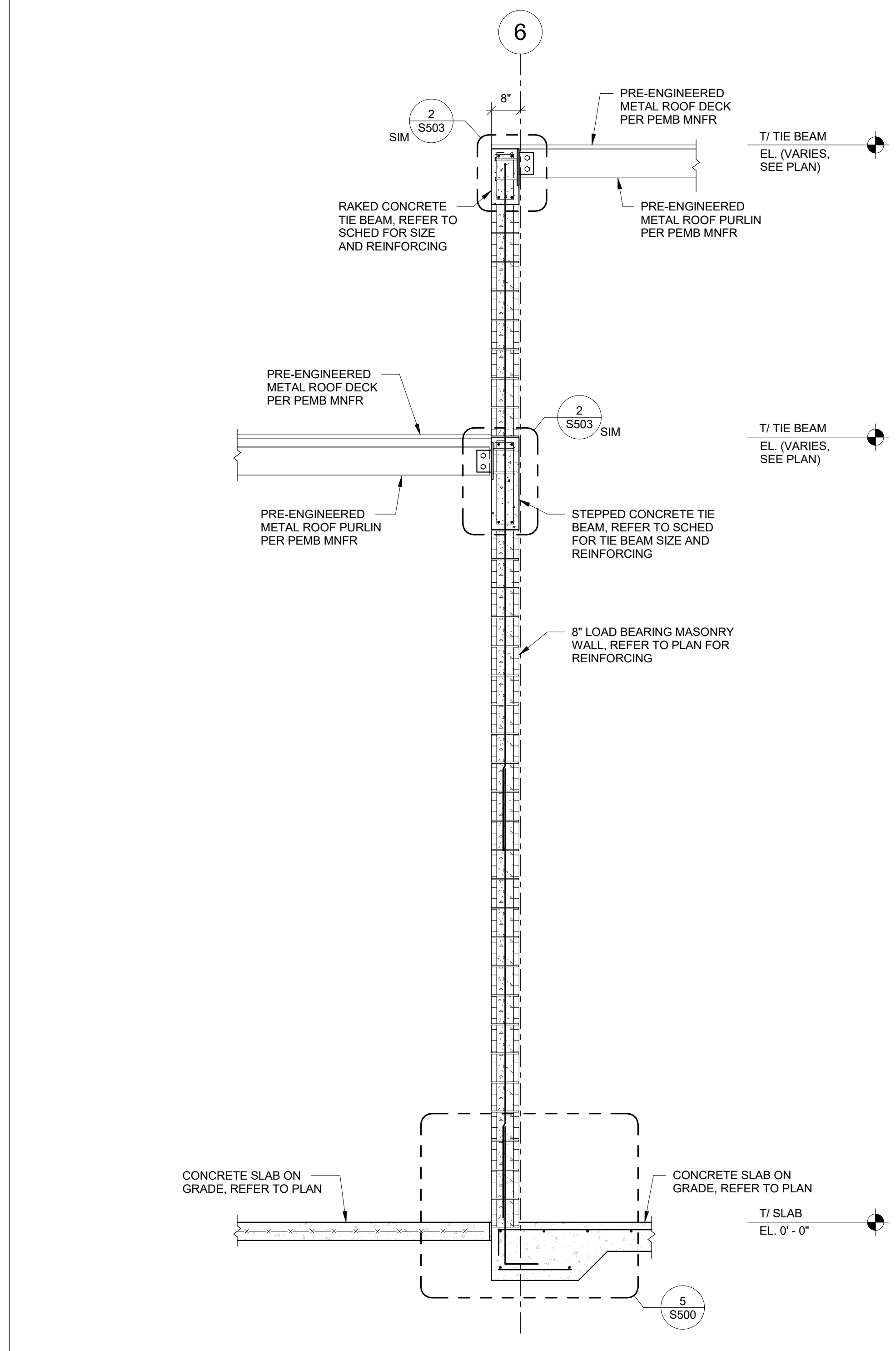


1 SECTION AT MAINTENANCE BUILDING END WALL
1/2" = 1'-0"

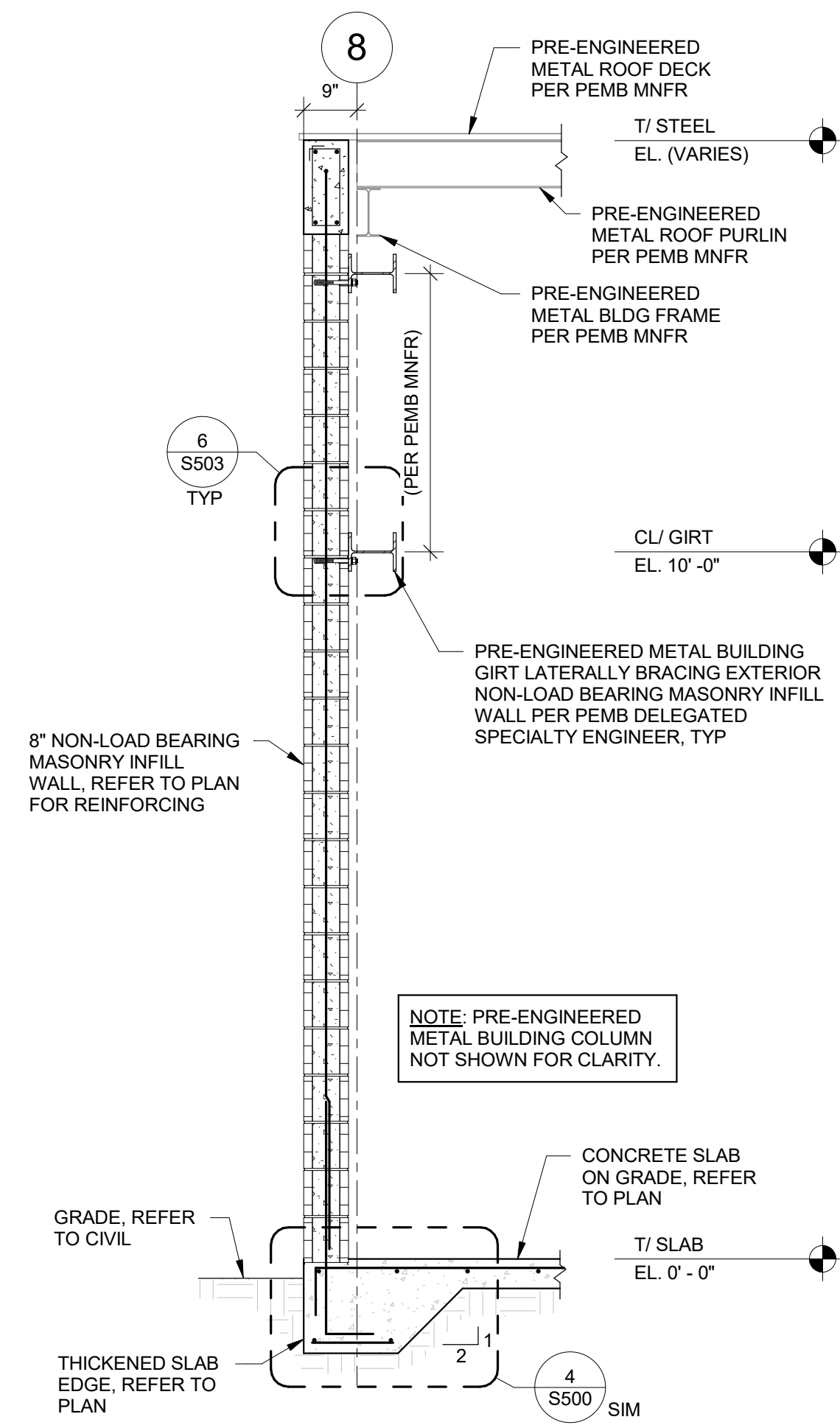
NOTE:
1. PRE-ENGINEERED METAL BUILDING COLUMN NOT SHOWN FOR CLARITY.
2. REFER TO PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATIONS OF PRE-ENGINEERED ALUMINUM CANOPIES.



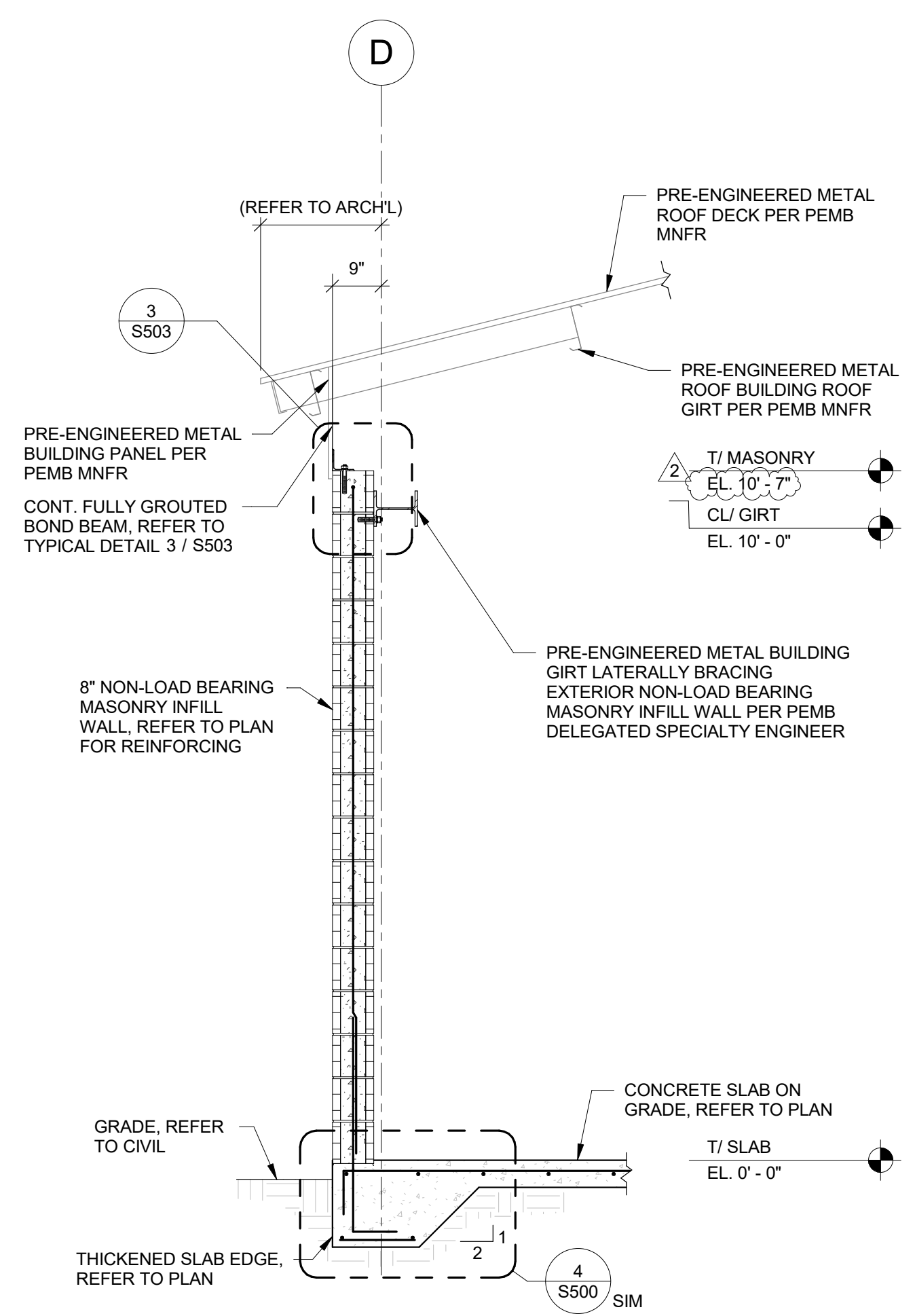
2 SECTION AT MAINTENANCE BUILDING SIDE WALL
1/2" = 1'-0"



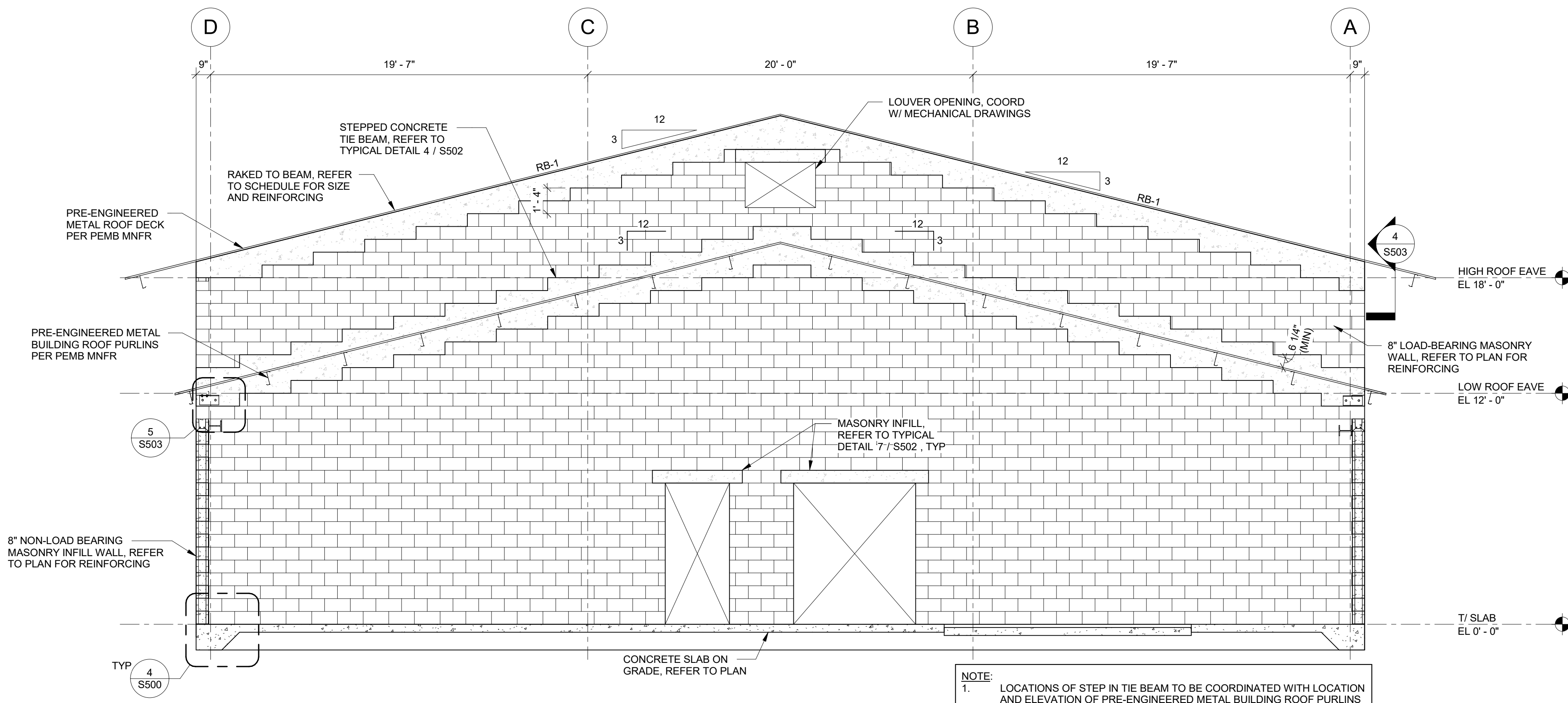
3 LOAD-BEARING WALL SECTION
1/2" = 1'-0"



1 SECTION AT ADMIN BUILDING END WALL
1/2" = 1'-0"



2 SECTION AT ADMIN BUILDING SIDE WALL
1/2" = 1'-0"



3 LOAD BEARING MASONRY WALL ELEVATION
1/4" = 1'-0"

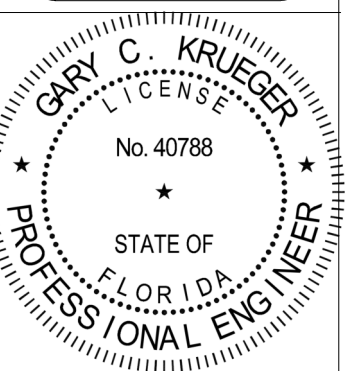
NOTE:
1. LOCATIONS OF STEP IN THE BEAM TO BE COORDINATED WITH LOCATION AND ELEVATION OF PRE-ENGINEERED METAL BUILDING ROOF PURLINS AS REFLECTED IN PEMB SHOP DRAWINGS.
2. MAINTAIN MINIMUM 6" EXPOSED CONCRETE TIE BEAM ABOVE PRE-ENGINEERED METAL ROOF PANELS OF LOW ROOF TO ACCOMMODATE FLASHING REQUIREMENTS, REFER TO ARCH'L PLANS AND SECTIONS.

REVISIONS
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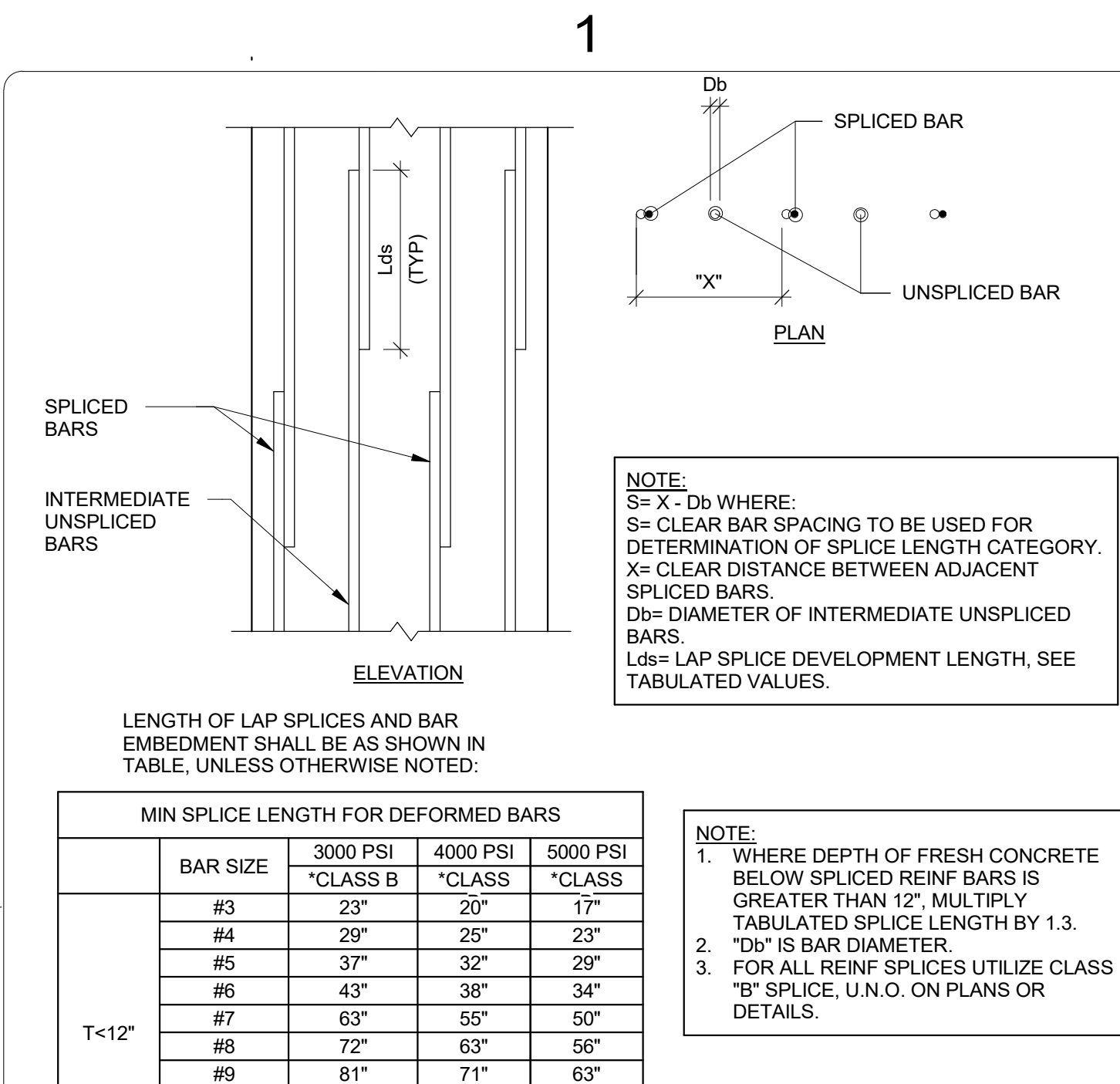
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SECTIONS

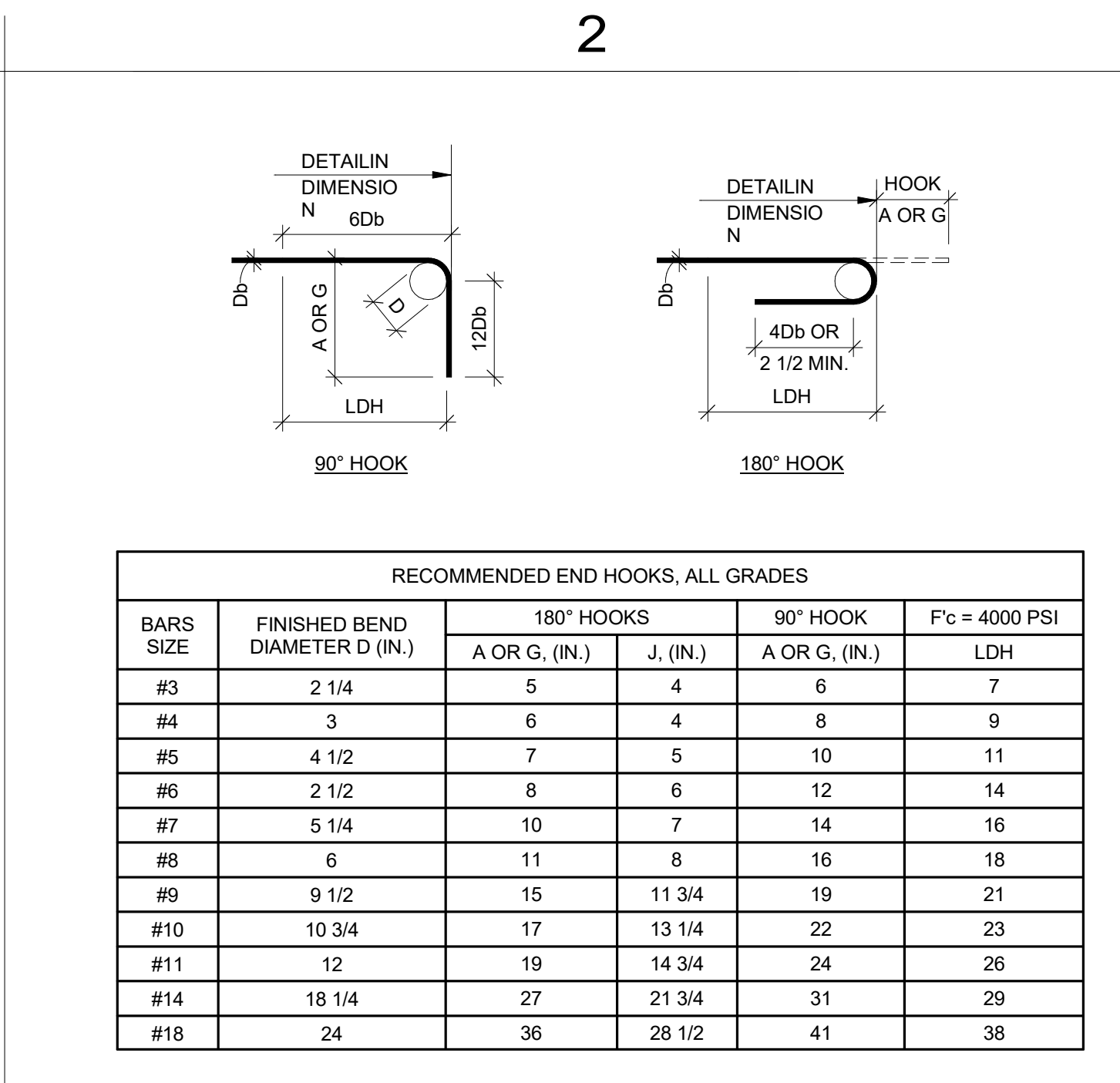
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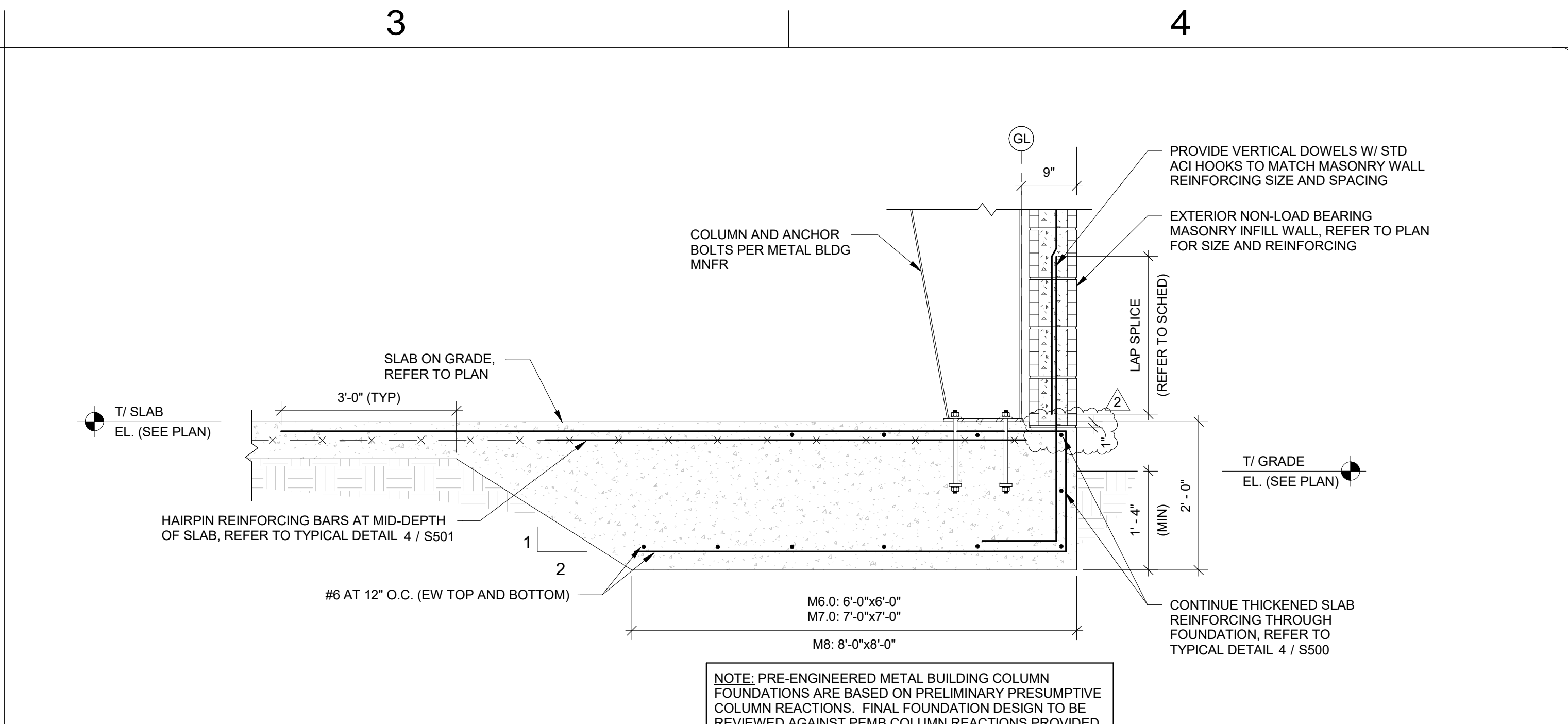
JOB #: GC-20-033



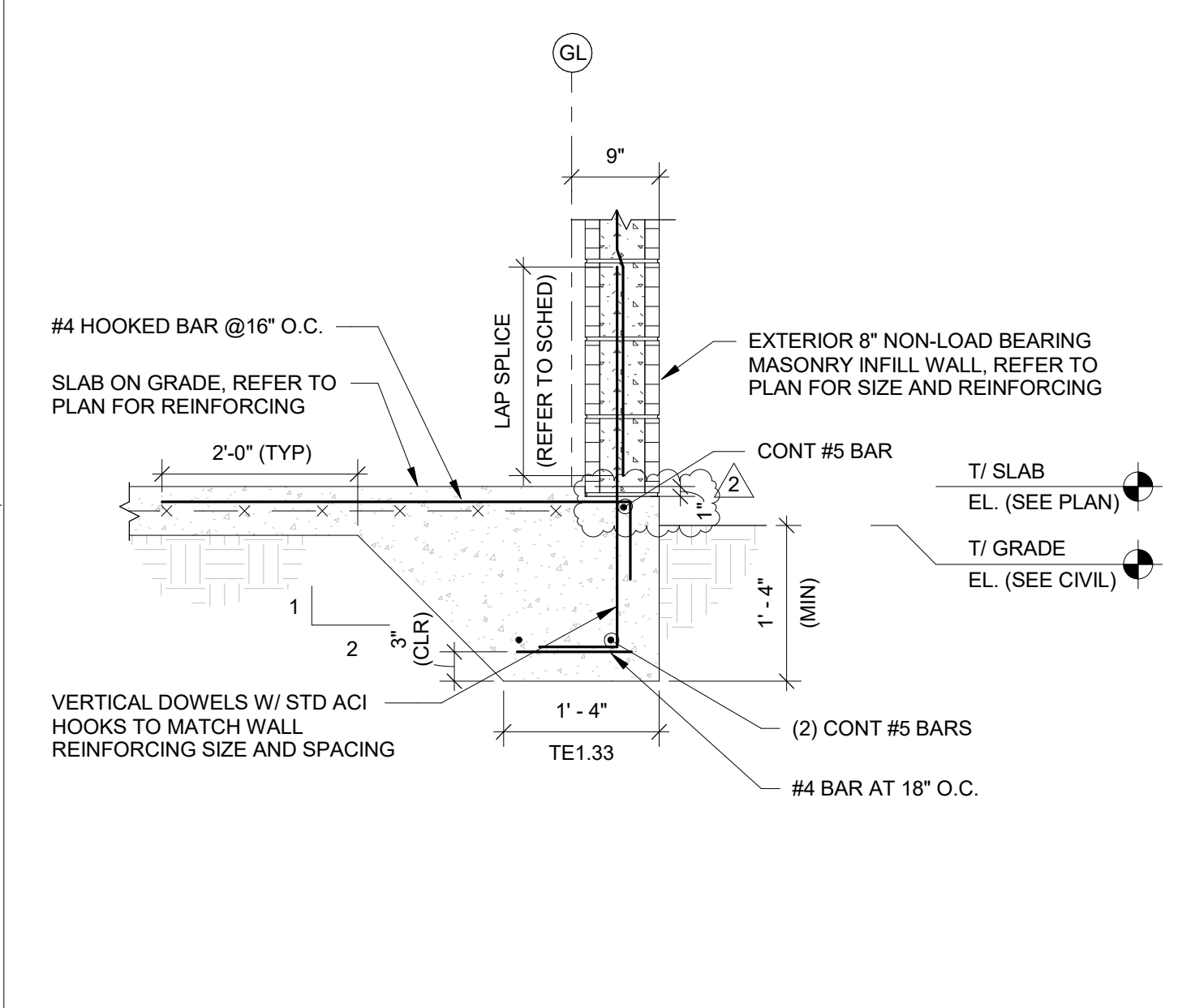
1 TYPICAL LAP SPLICE SCHEDULE
3/4" = 1'-0"



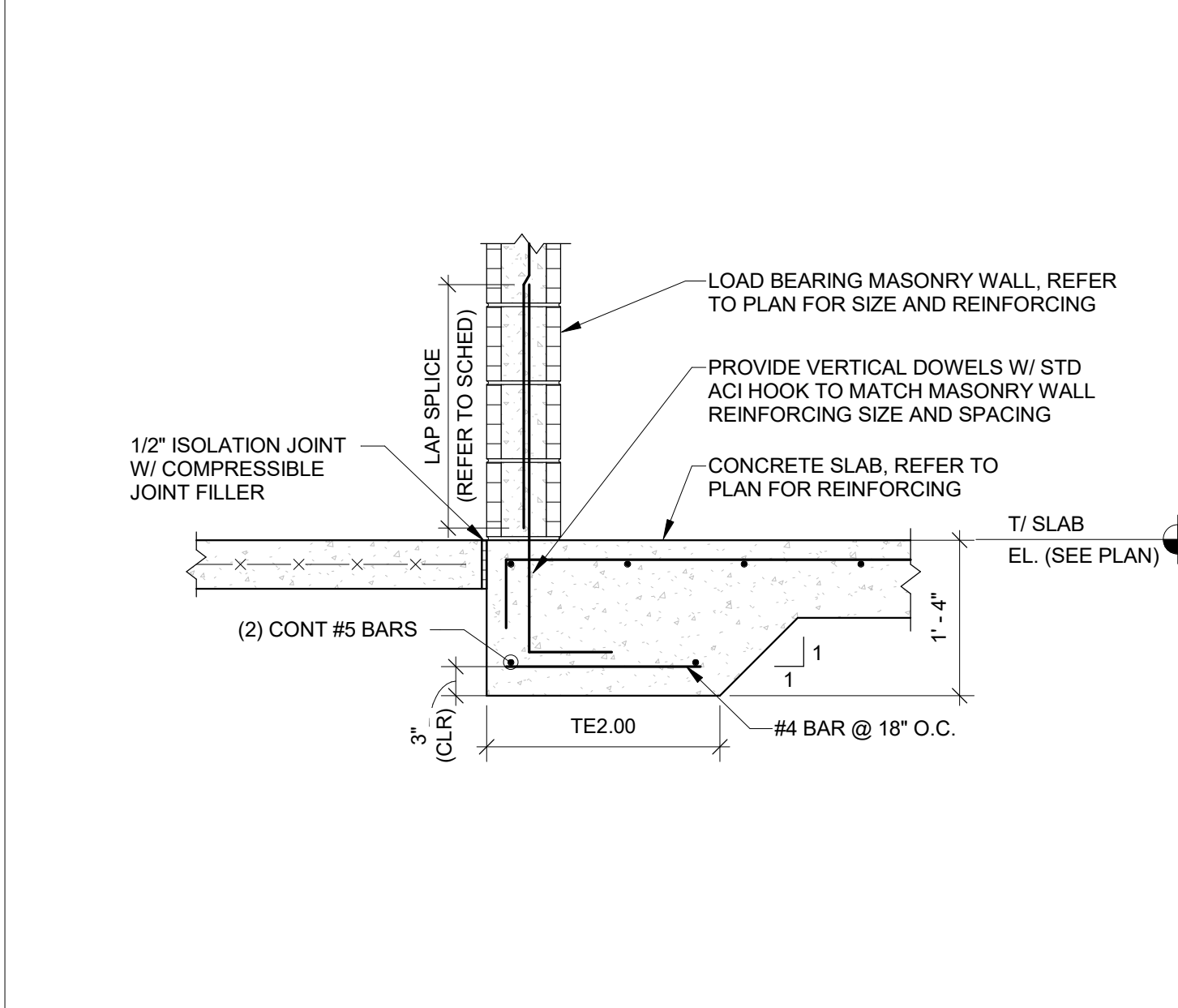
2 TYPICAL END HOOK SCHEDULE
3/4" = 1'-0"



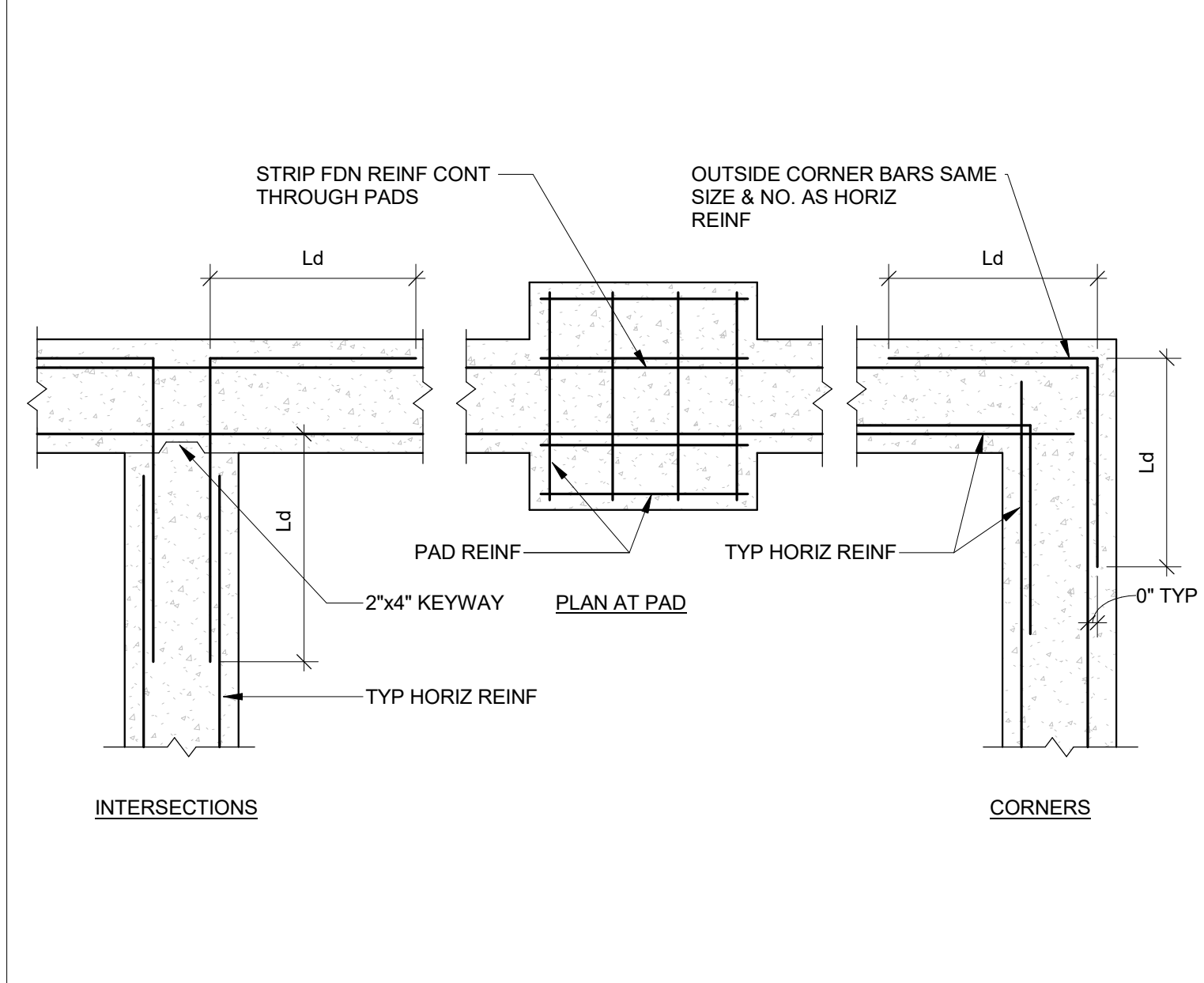
3 TYPICAL PEMB MONOLITHIC COLUMN FOUNDATION (MF##)
3/4" = 1'-0"



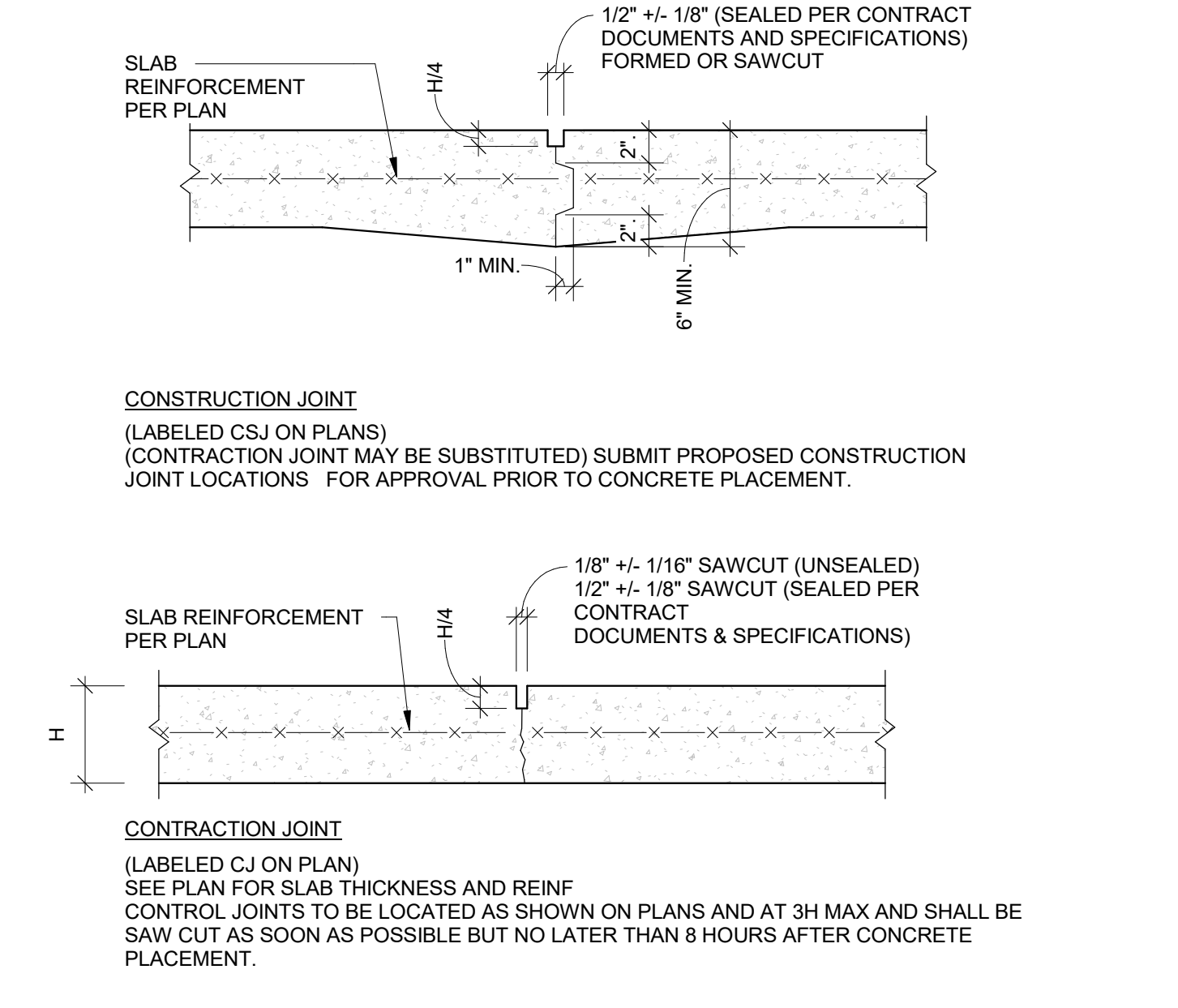
4 TYPICAL THICKENED EDGE AT EXTERIOR NON-LOAD BEARING WALL (TE1.33)
3/4" = 1'-0"



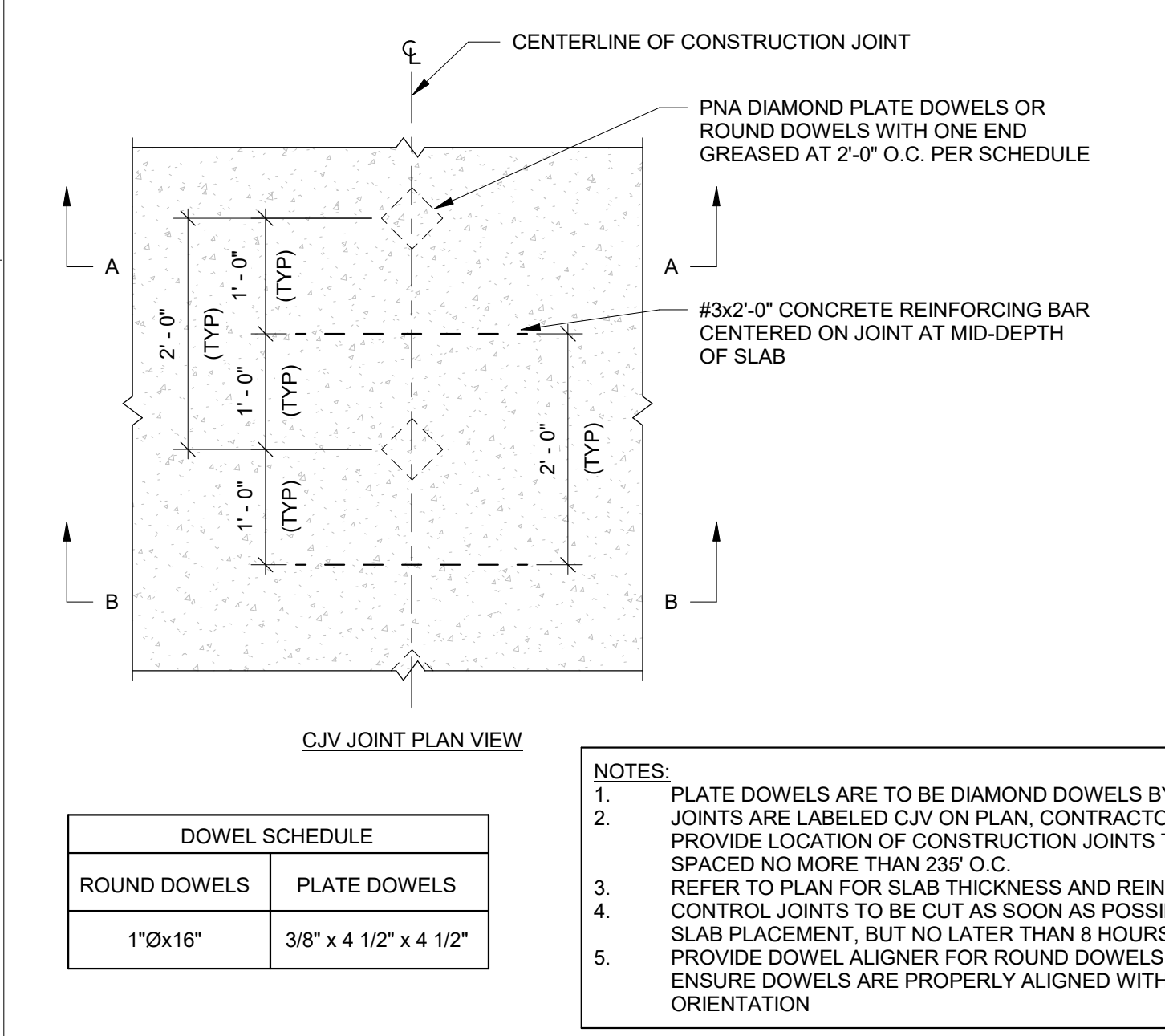
5 TYPICAL THICKENED SLAB (TE2.00) AT INTERIOR LOAD BEARING MASONRY WALL
3/4" = 1'-0"



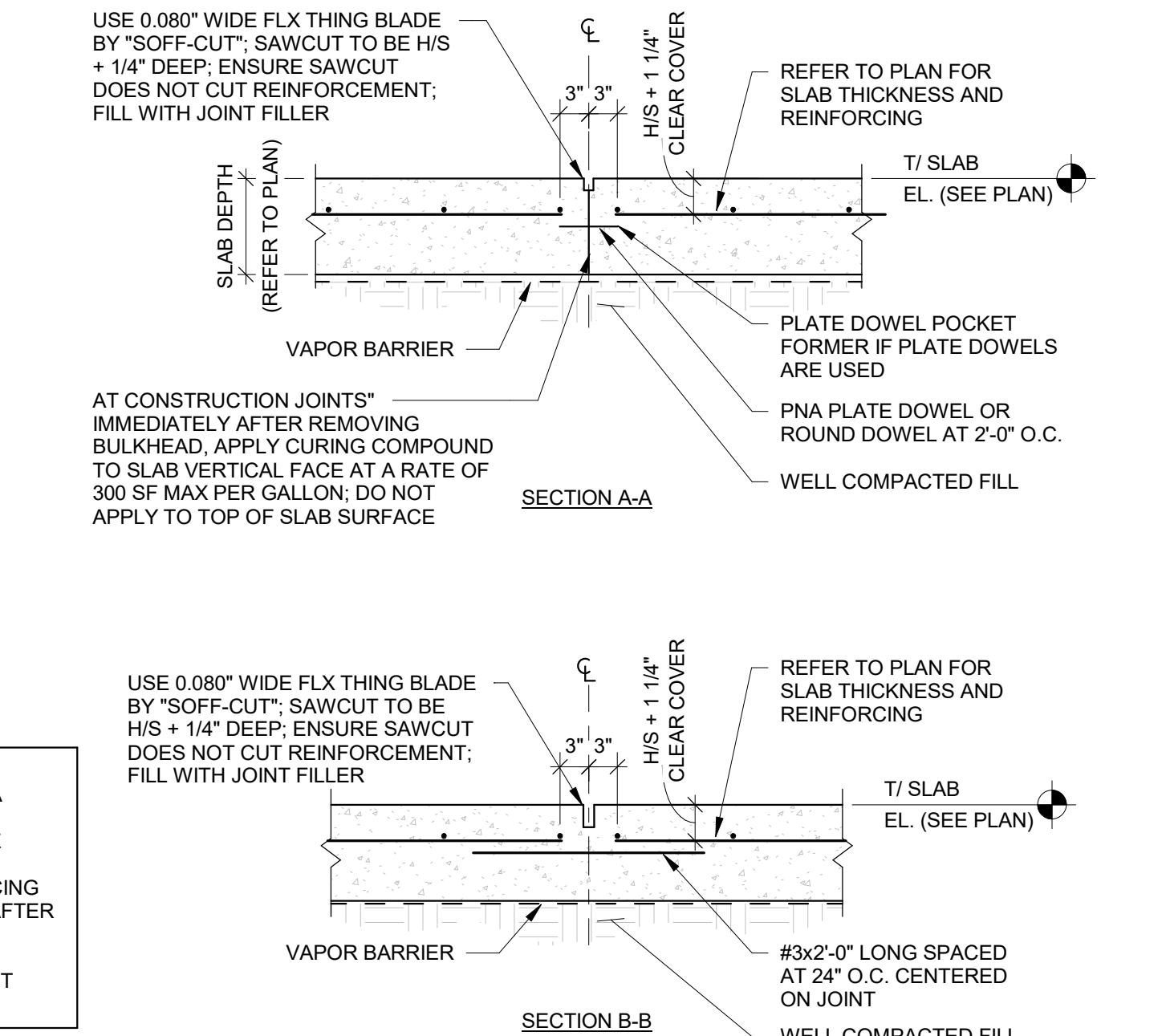
6 TYPICAL HORIZ REINF - CONCRETE BEAMS AND FOUNDATIONS
3/4" = 1'-0"



7 TYPICAL 5" SLAB ON GRADE CONTROL JOINTS
3/4" = 1'-0"



8 TYPICAL DETAIL HEAVILY LOADED 8" SLAB ON GRADE CONTROL JOINTS
3/4" = 1'-0"



9 TYPICAL STEEL COLUMN ANCHOR BOLT SCHEDULE
3/4" = 1'-0"

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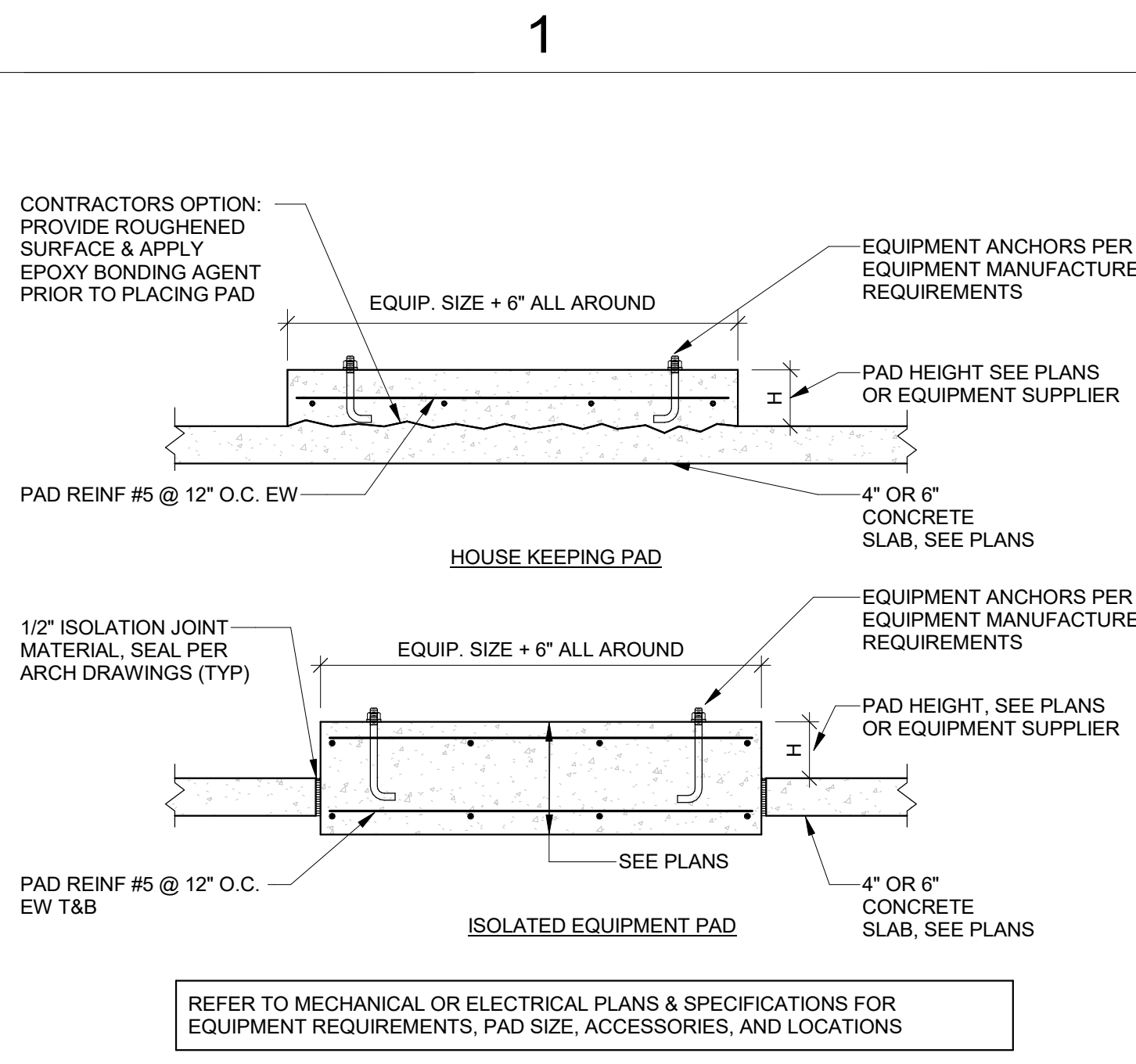
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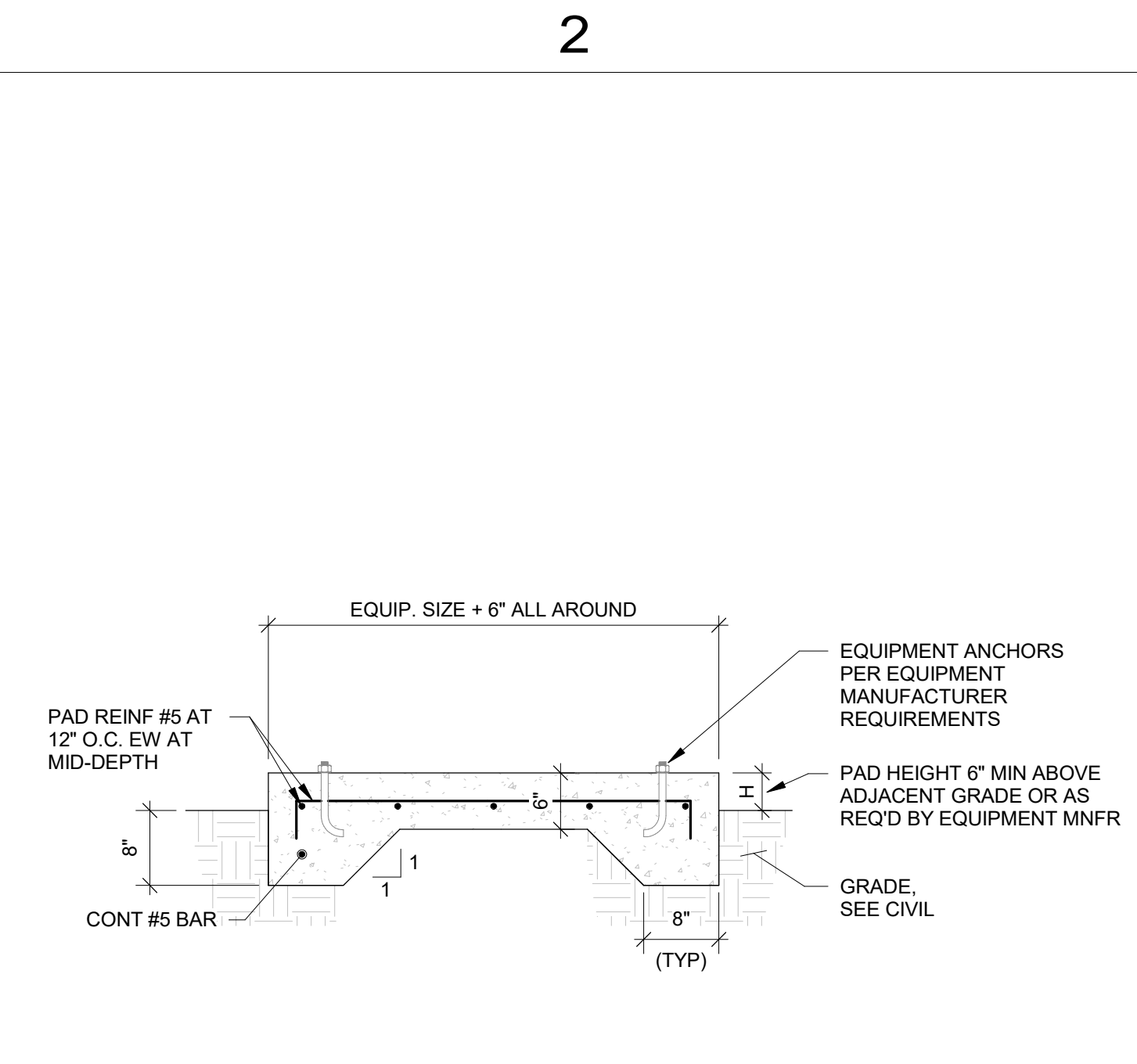
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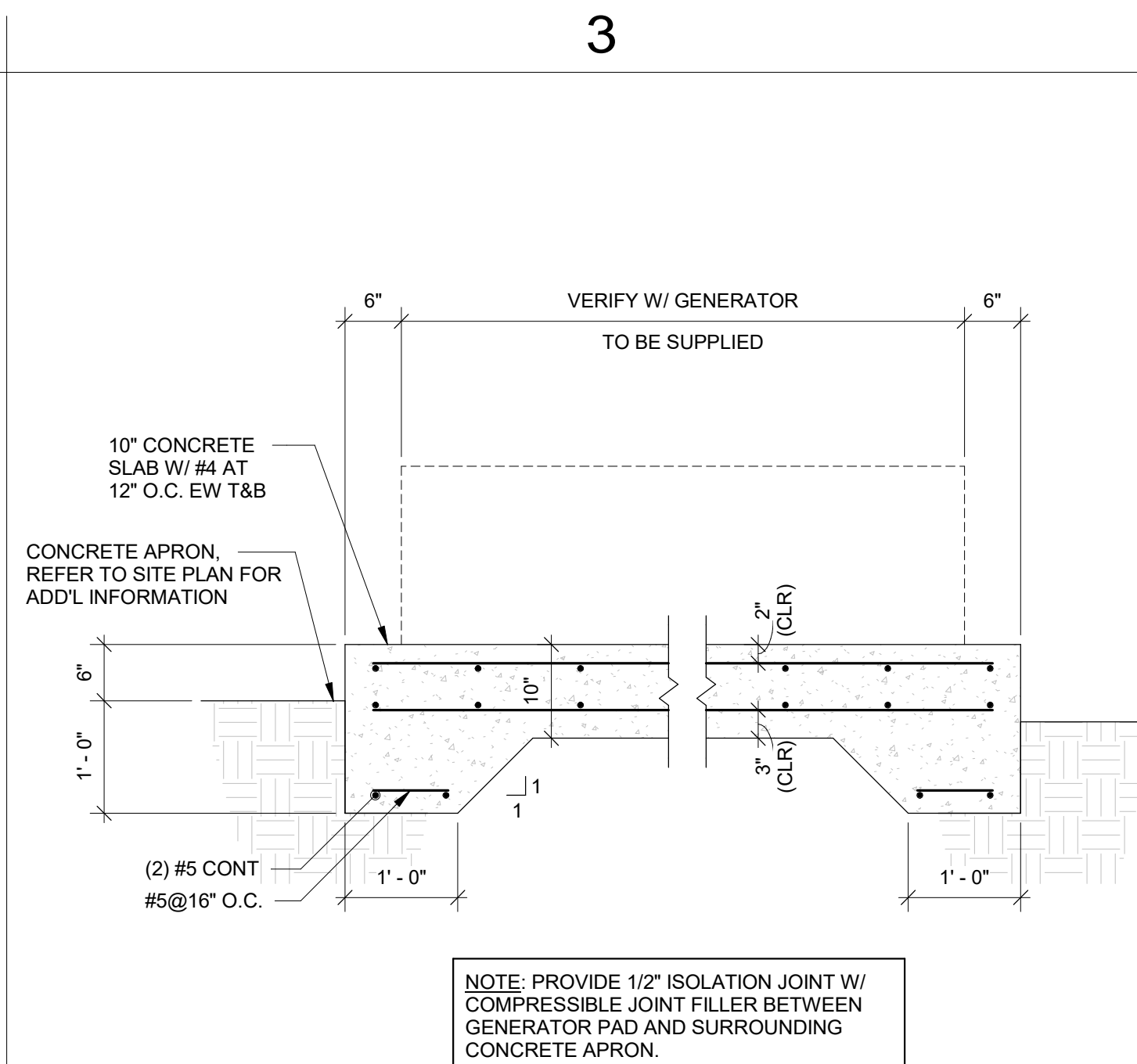
TYPICAL STRUCTURAL CONCRETE DETAILS
S500
ISSUE DATE 07-12-22



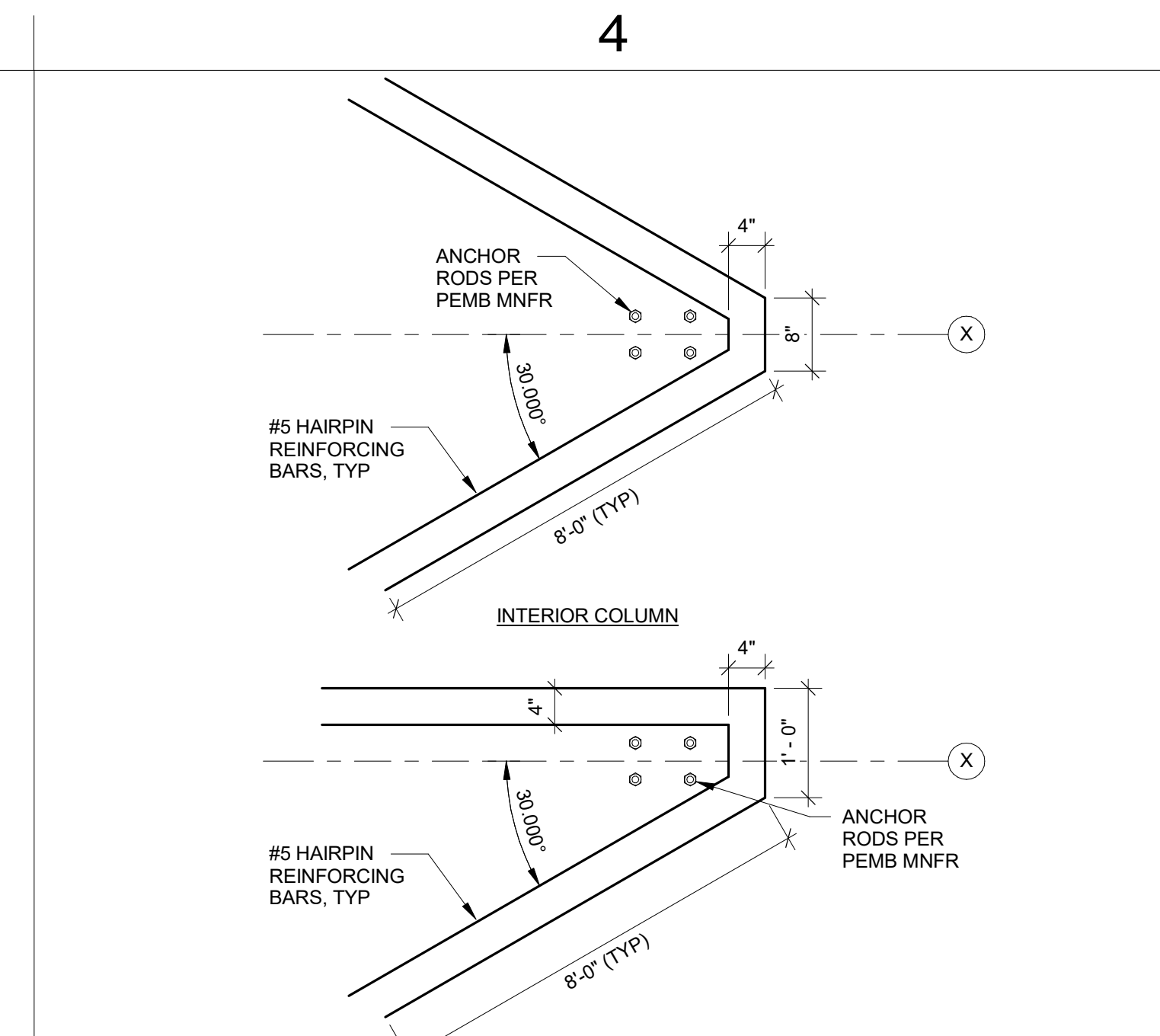
1 TYPICAL EQUIPMENT PAD / HOUSE KEEPING PAD ON SLAB ON GRADE
3/4" = 1'-0"



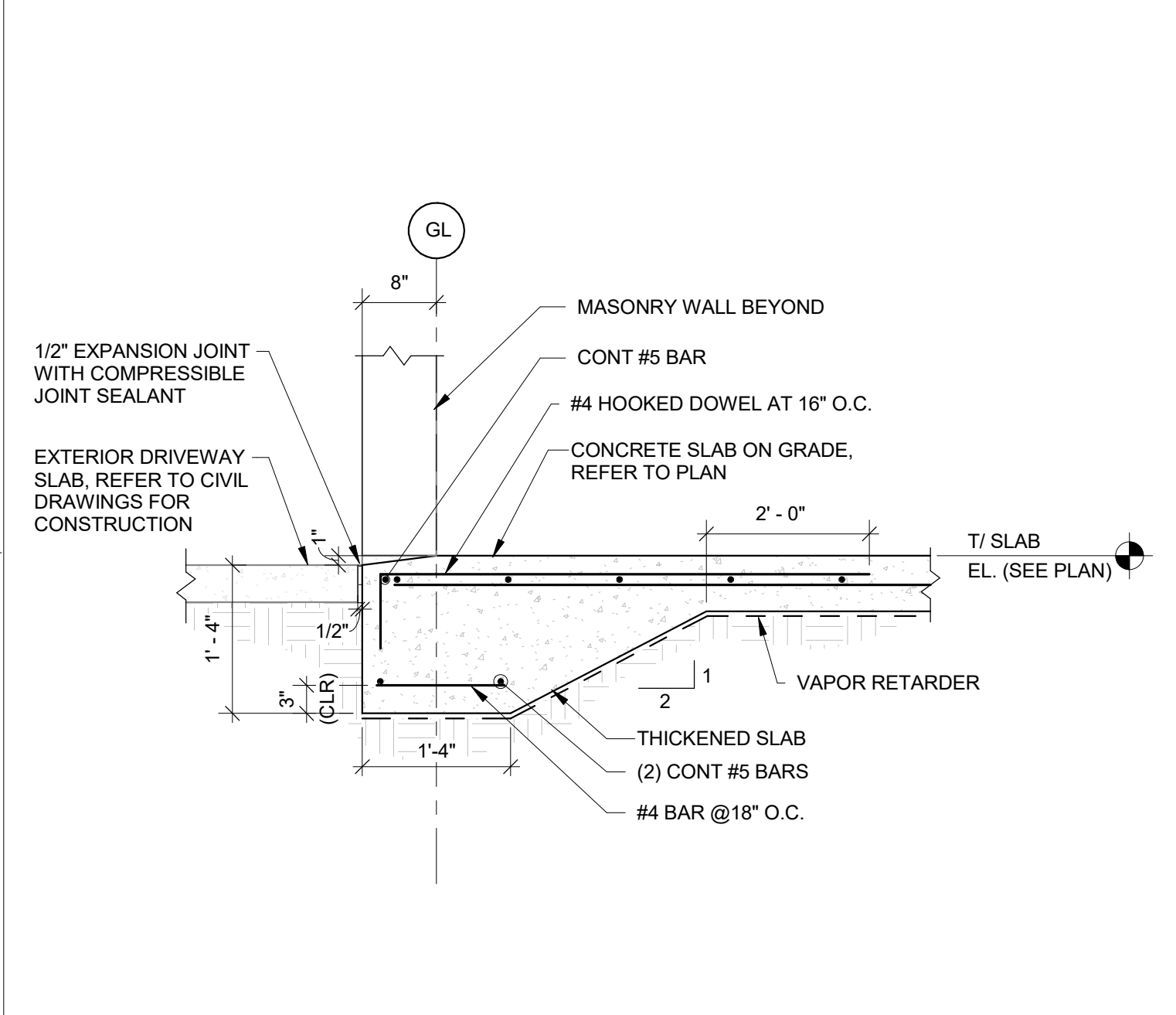
2 TYPICAL SECTION AT EXTERIOR EQUIPMENT PAD
3/4" = 1'-0"



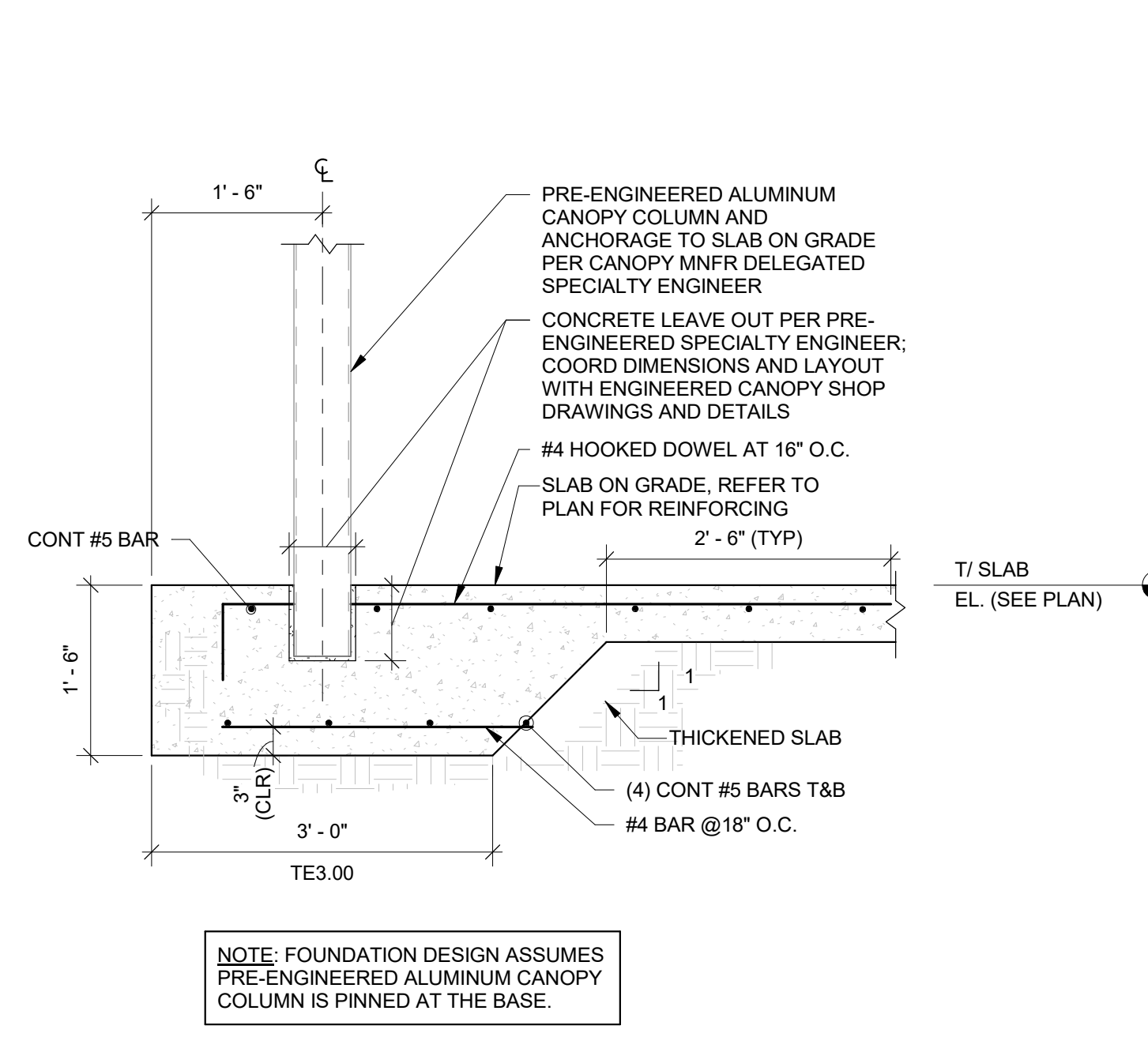
3 TYPICAL SECTION AT GENERATOR PAD
3/4" = 1'-0"



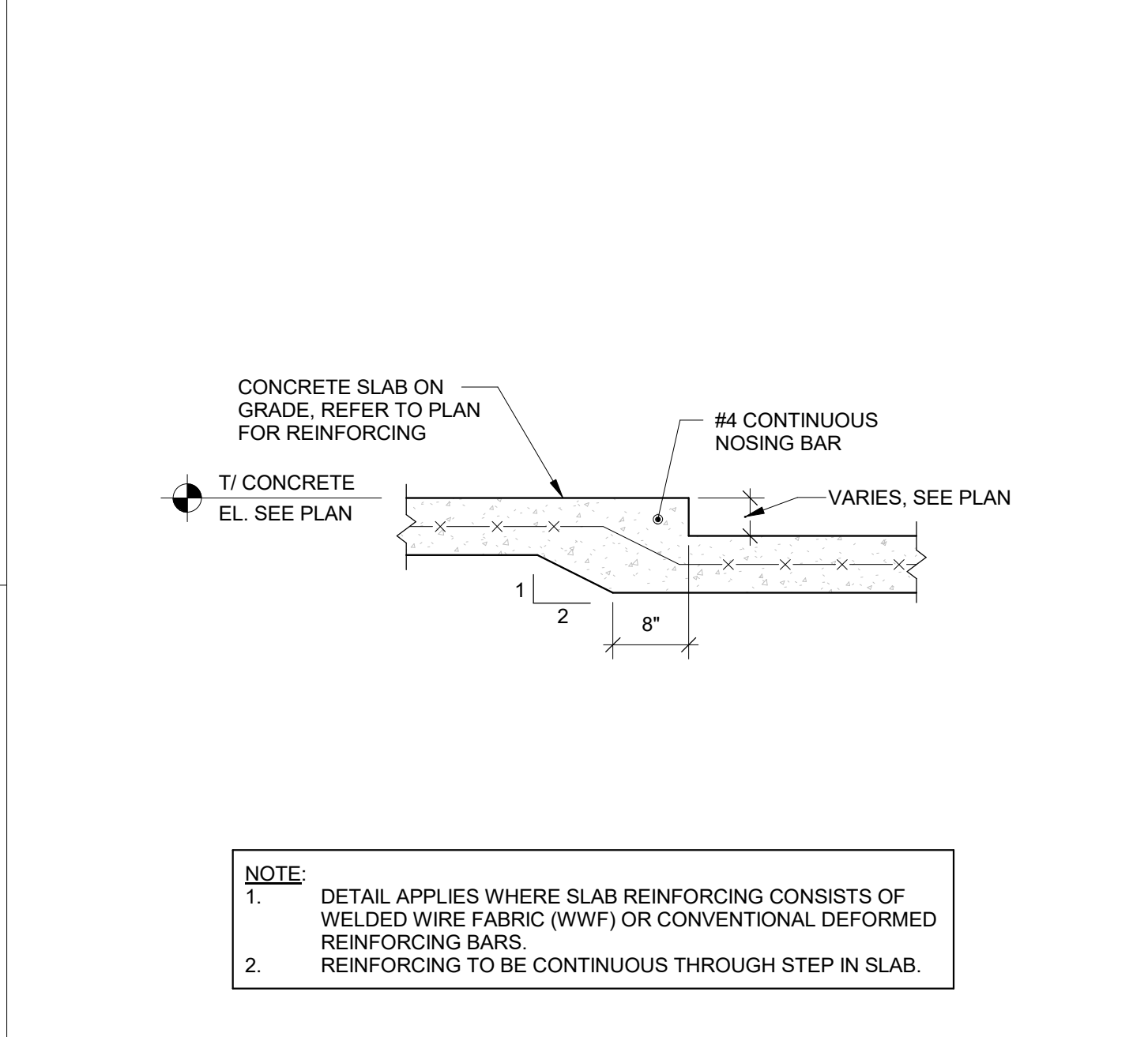
4 TYPICAL HAIRPIN REINFORCING AT PEMB COLUMNS
3/4" = 1'-0"



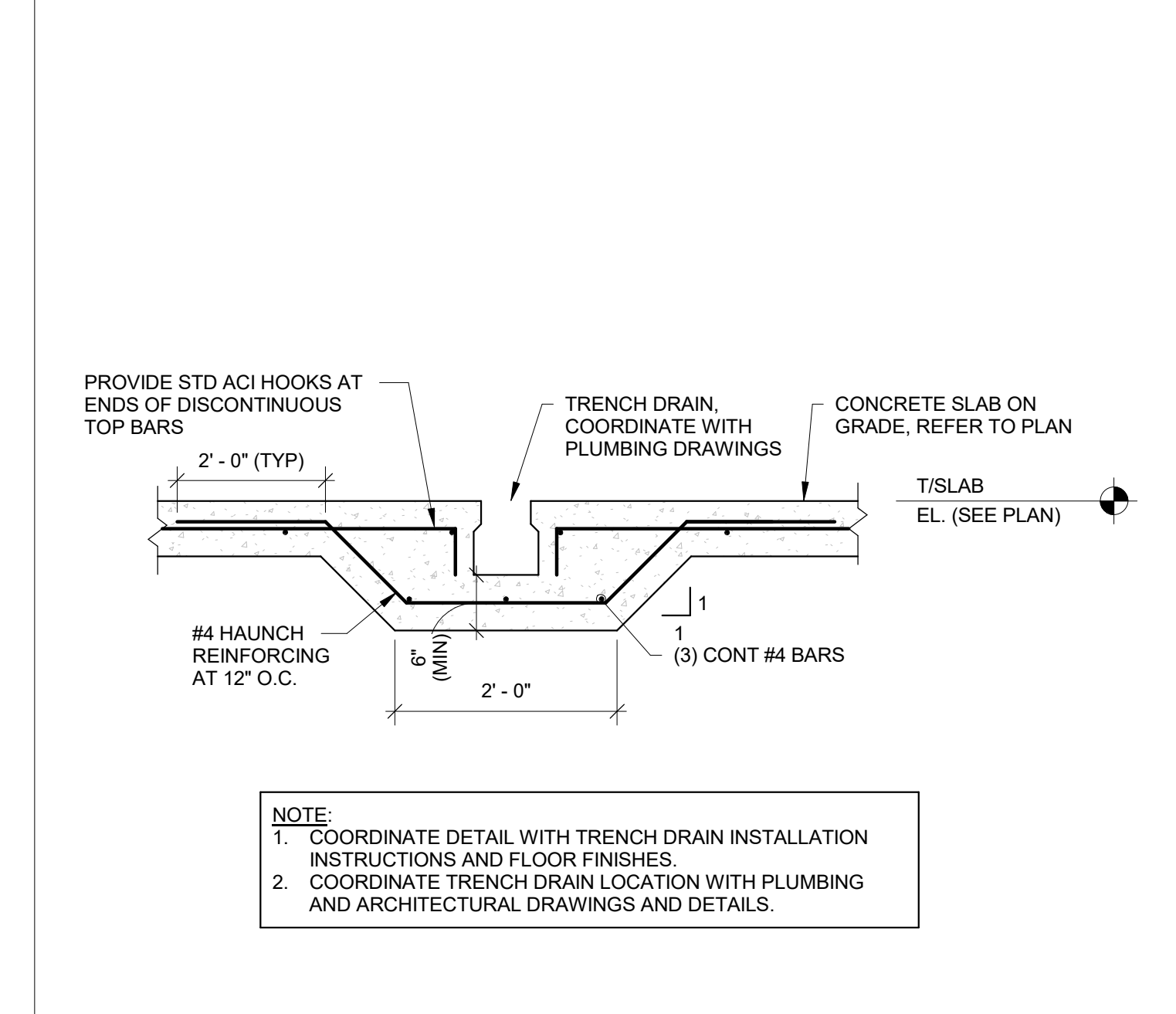
5 TYPICAL SLAB EDGE AT O.H. COILING DOOR
3/4" = 1'-0"



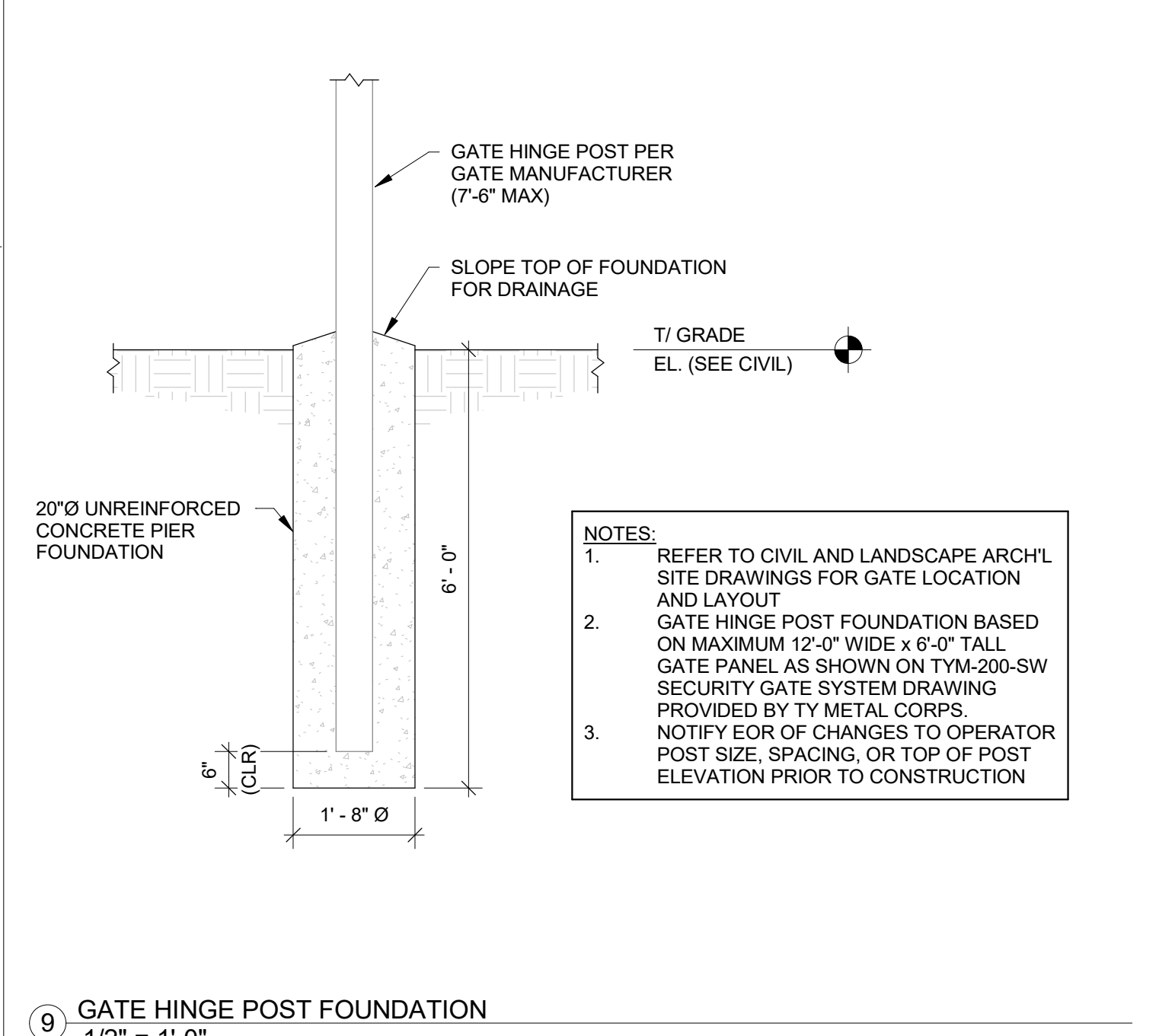
6 TYPICAL THICKENED EDGE AT STORAGE CANOPY (TE3.00)
3/4" = 1'-0"



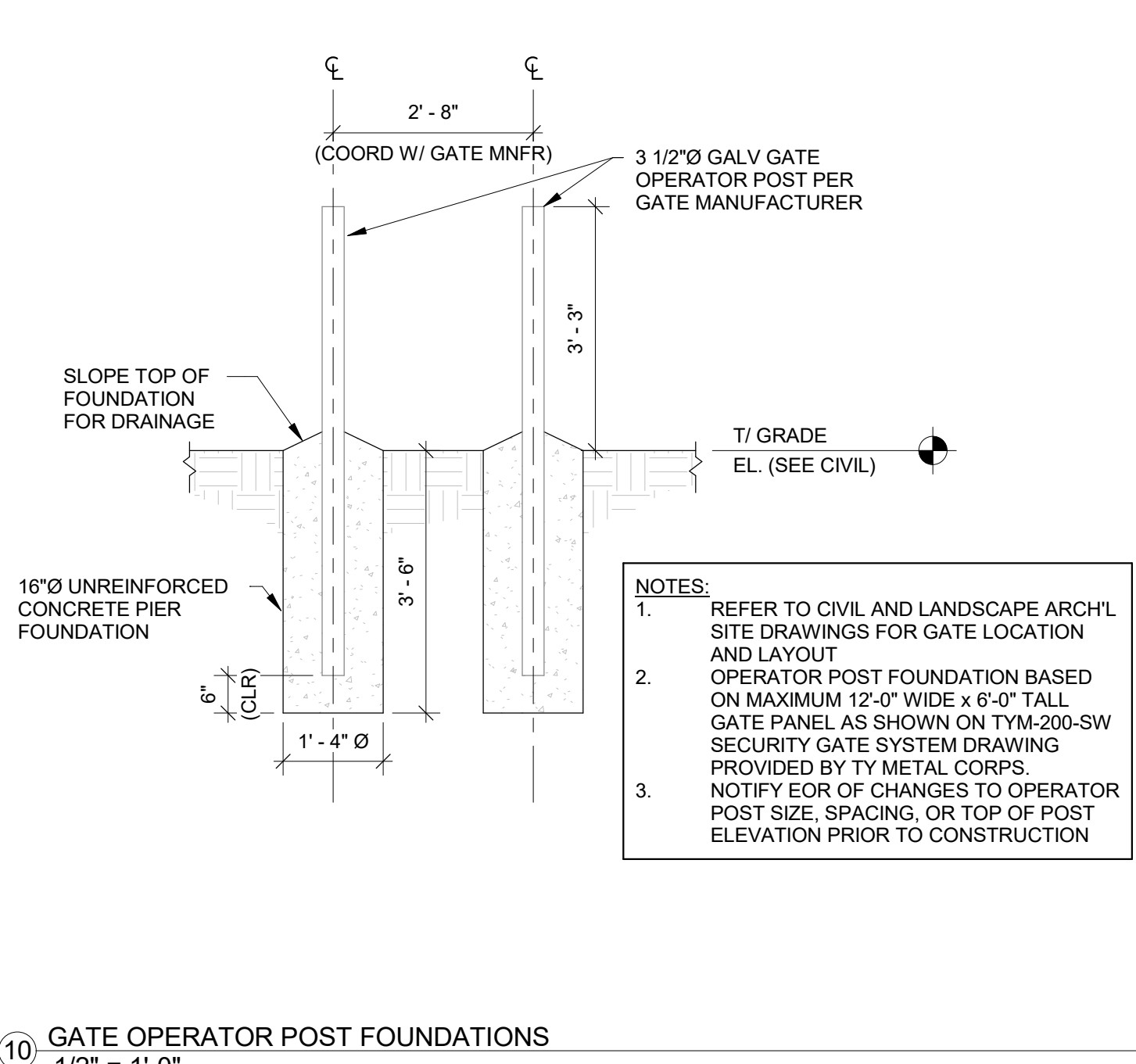
7 TYPICAL SLAB STEP
3/4" = 1'-0"



8 TYPICAL TRENCH DRAIN DETAIL
3/4" = 1'-0"



9 GATE HINGE POST FOUNDATION
1/2" = 1'-0"



10 GATE OPERATOR POST FOUNDATIONS
1/2" = 1'-0"

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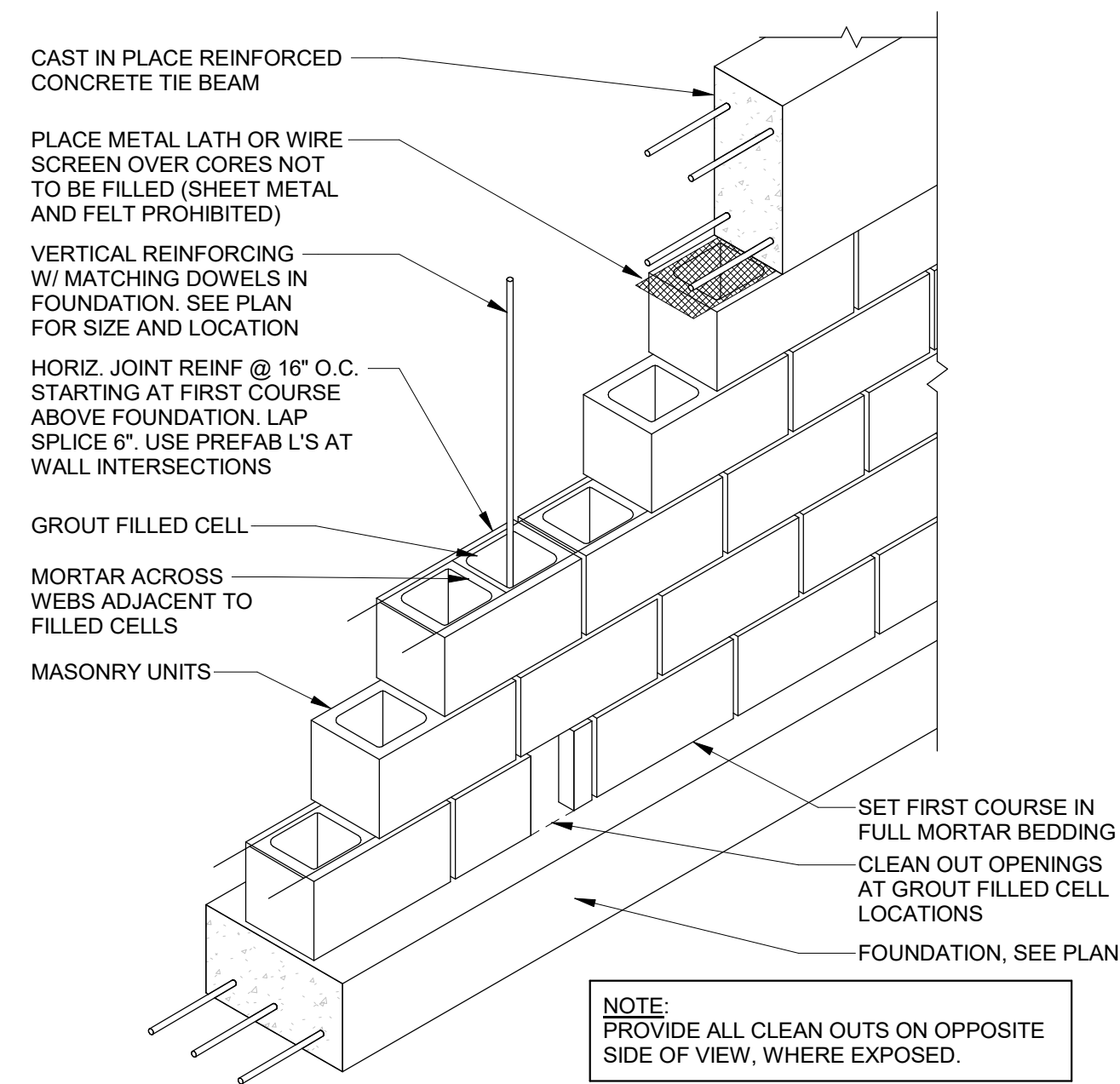
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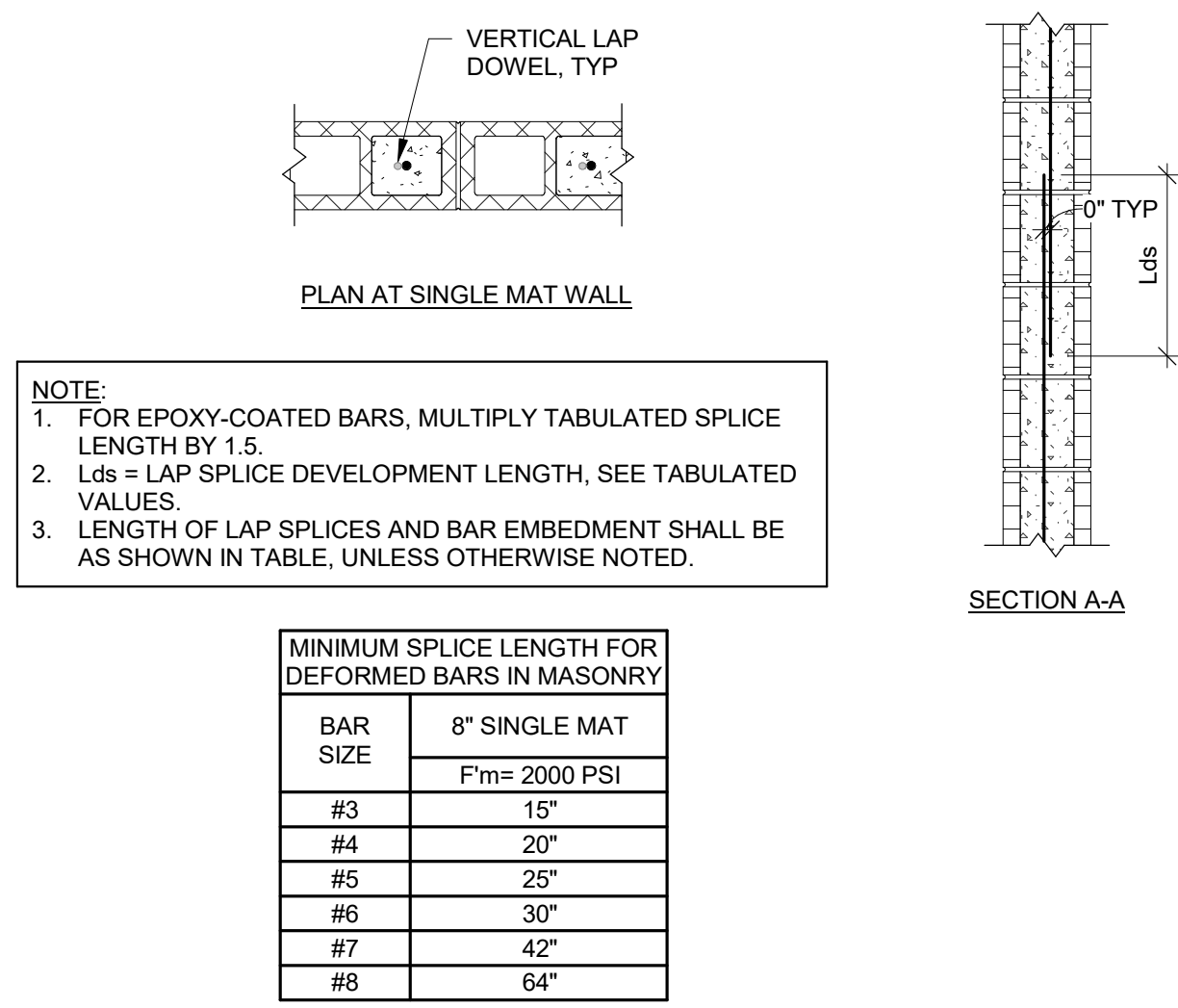
TYPICAL STRUCTURAL CONCRETE DETAILS
S501
ISSUE DATE 07-12-22

JOB #: GC-20-033

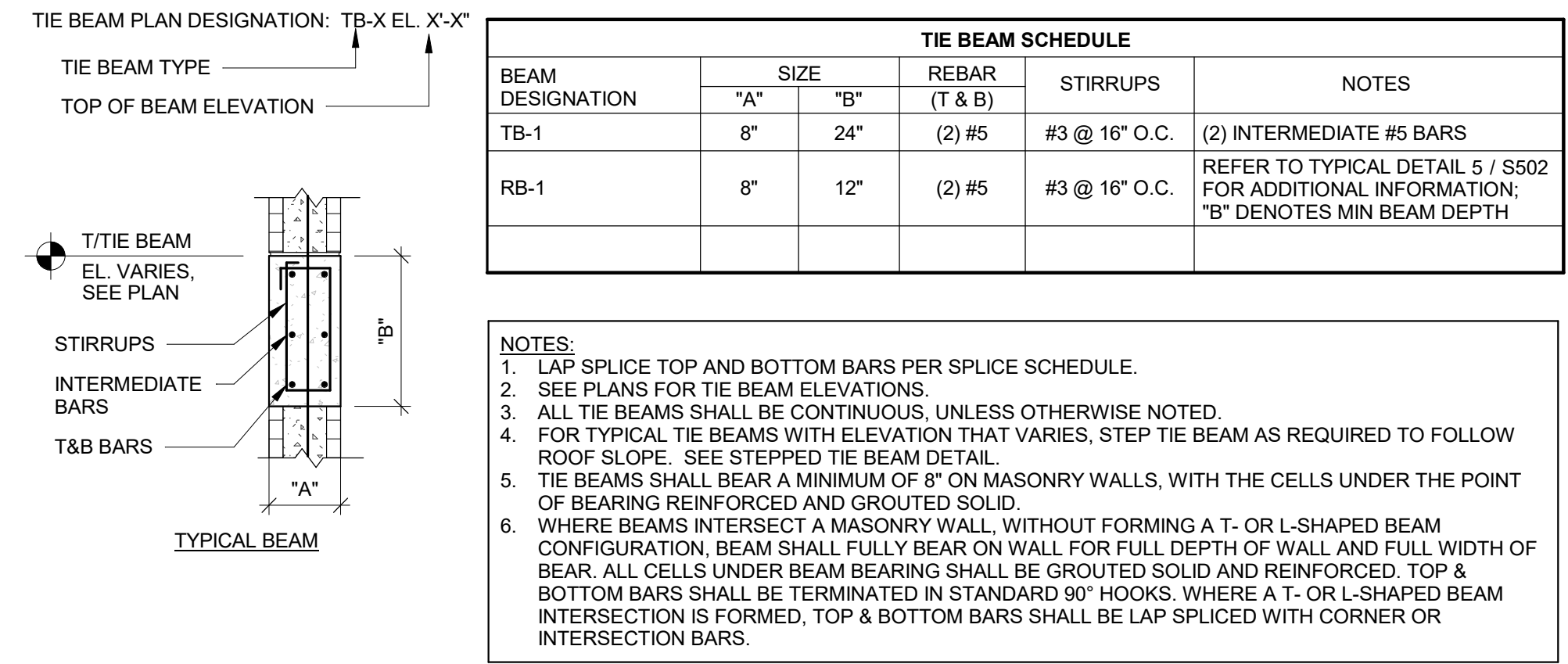
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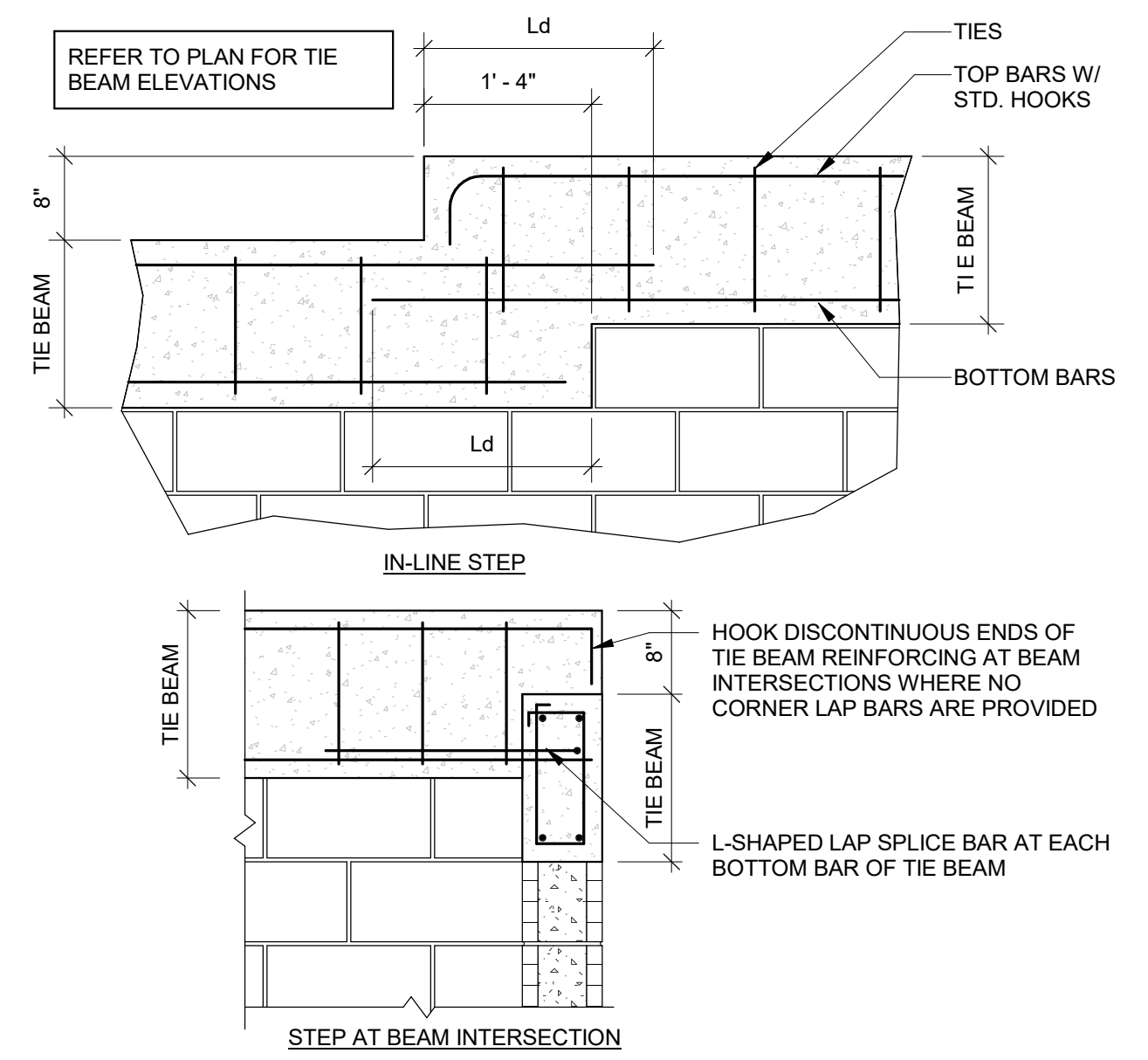
1 TYPICAL MASONRY WALL CONSTRUCTION
3/4" = 1'-0"



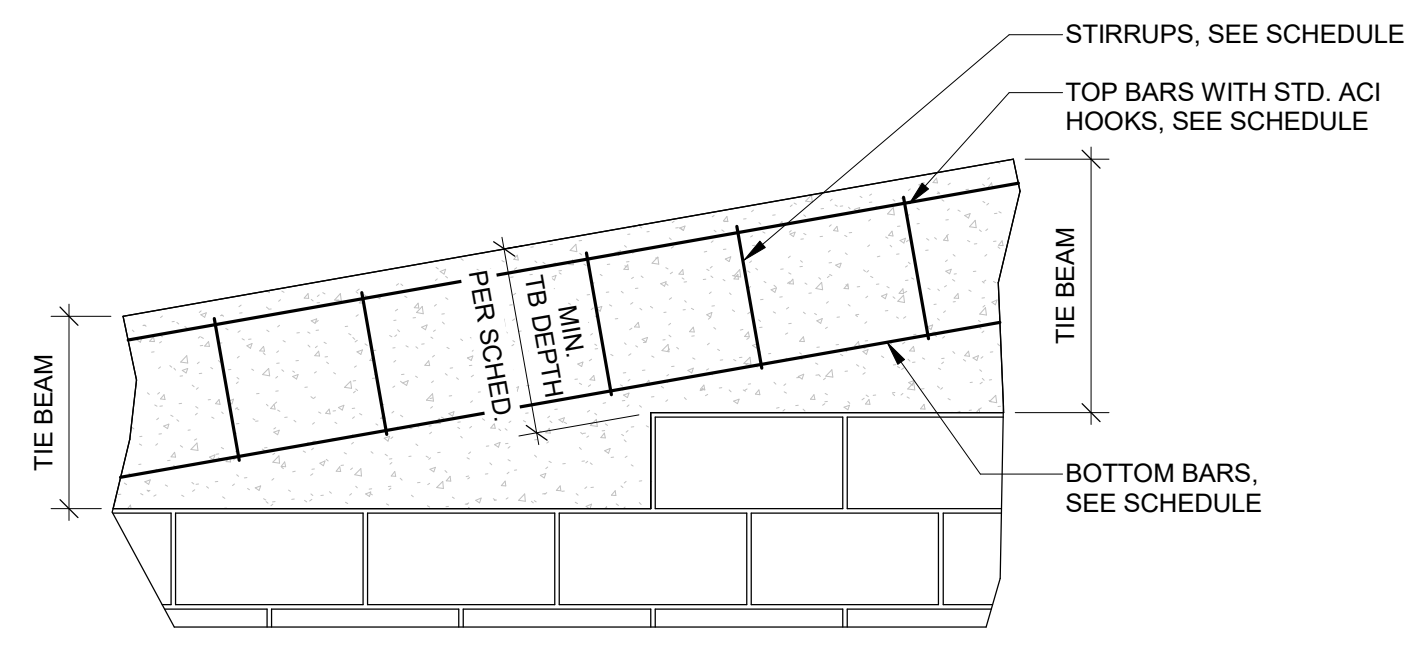
2 TYPICAL MASONRY LAP SPLICE DETAIL
3/4" = 1'-0"



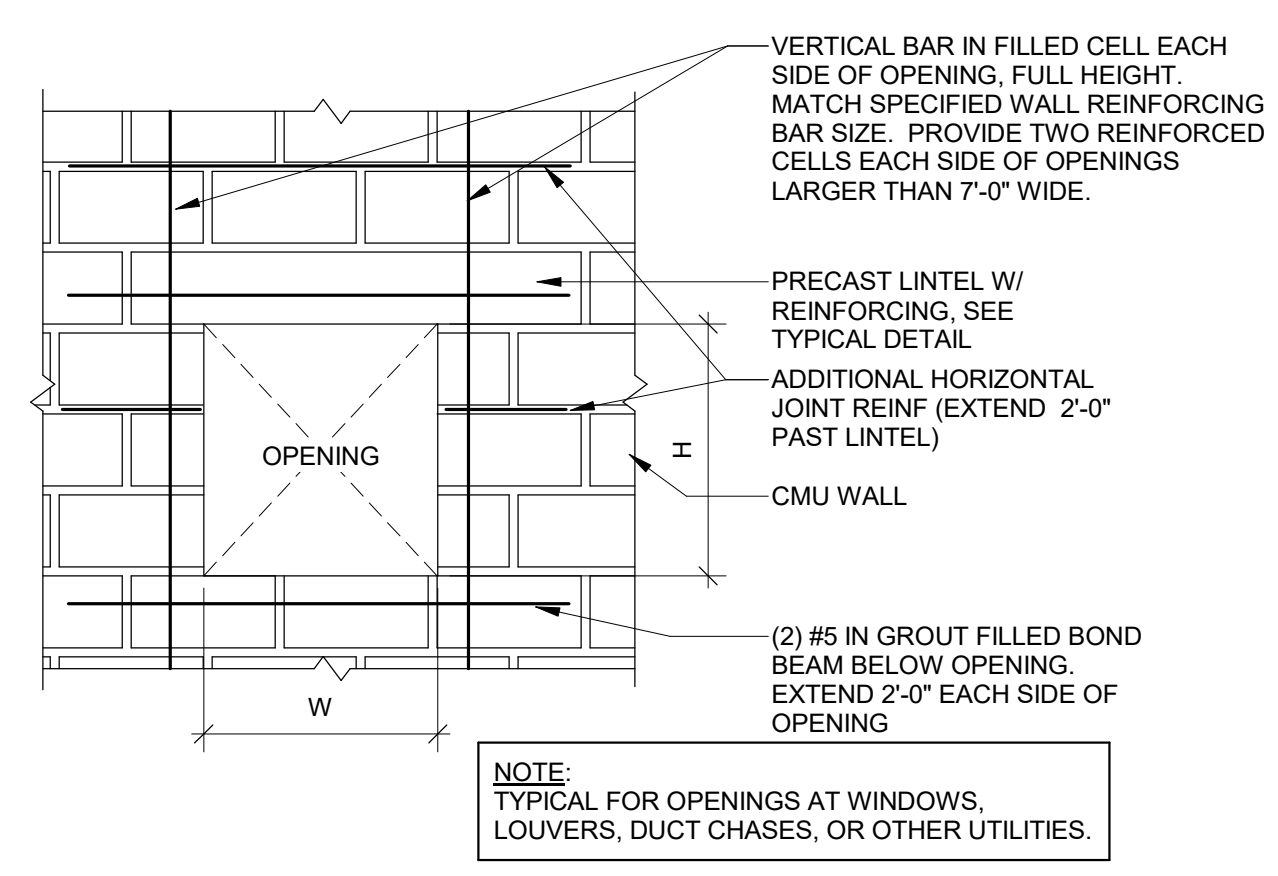
3 CONCRETE BEAM / TIE BEAM SCHEDULE
3/4" = 1'-0"



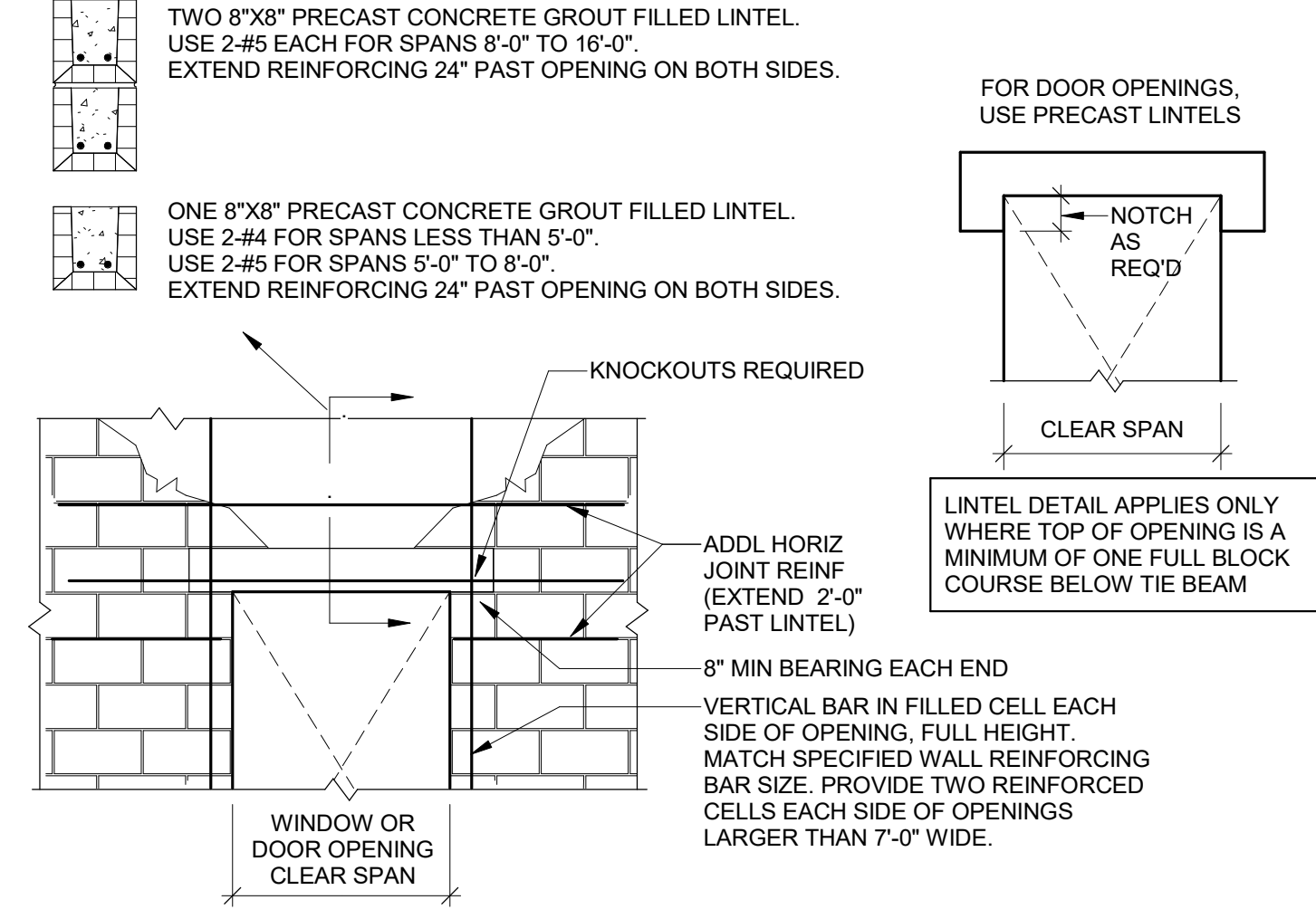
4 TYPICAL STEPPED TIE BEAM DETAIL
3/4" = 1'-0"



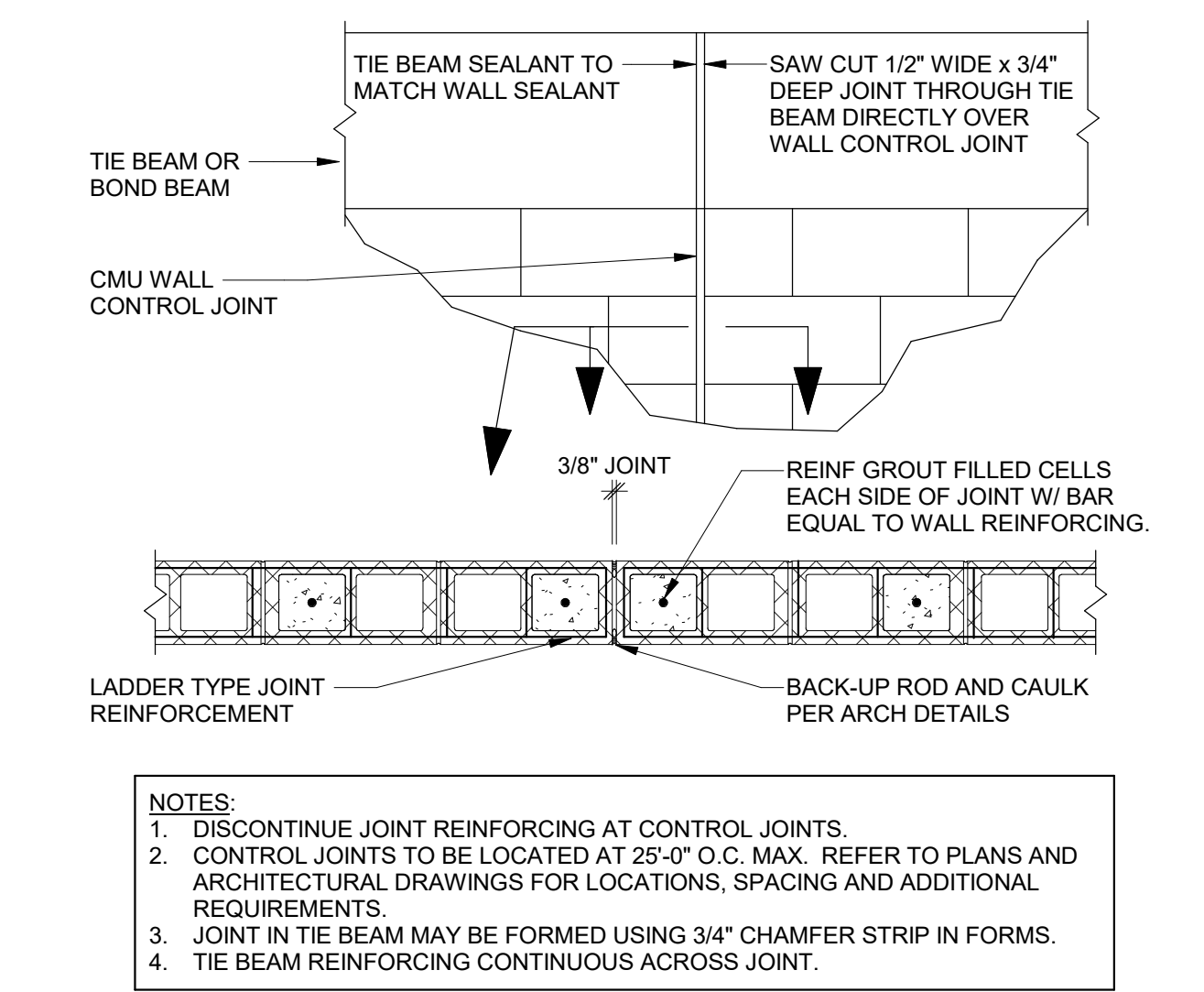
5 TYPICAL RAKED TIE BEAM DETAIL
3/4" = 1'-0"



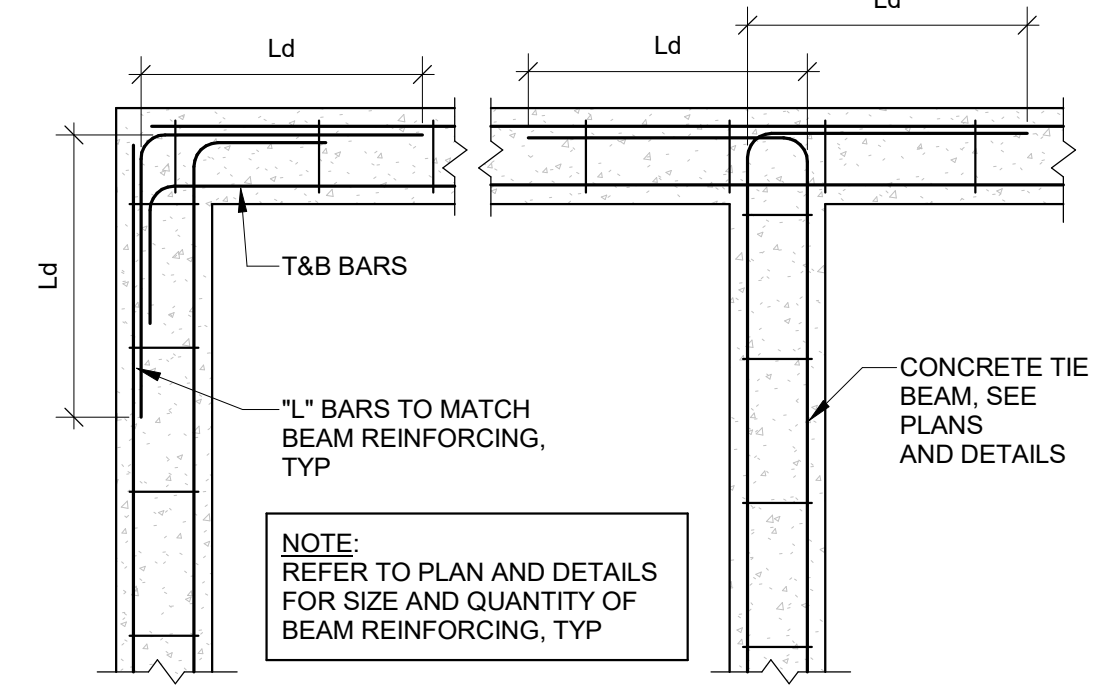
6 TYPICAL MASONRY WALL OPENING REINFORCING
3/4" = 1'-0"



7 TYPICAL MASONRY WALL OPENING LINTEL DETAIL
3/4" = 1'-0"



8 TYPICAL MASONRY CONTROL JOINT
3/4" = 1'-0"



9 TYPICAL CONCRETE TIE BEAM CORNER REINFORCING
3/4" = 1'-0"

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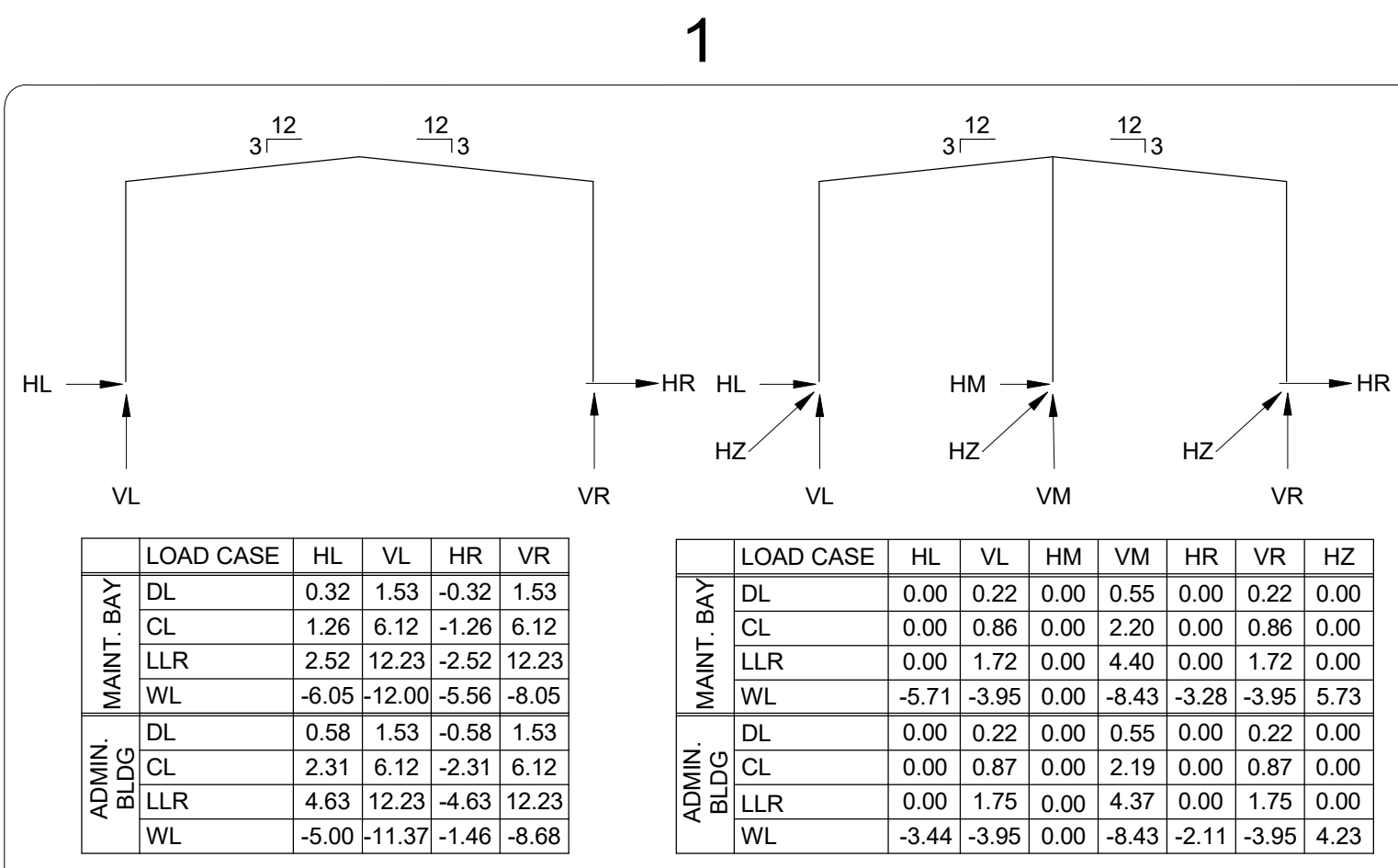
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TYPICAL STRUCTURAL MASONRY DETAILS
S502
ISSUE DATE 07-12-22

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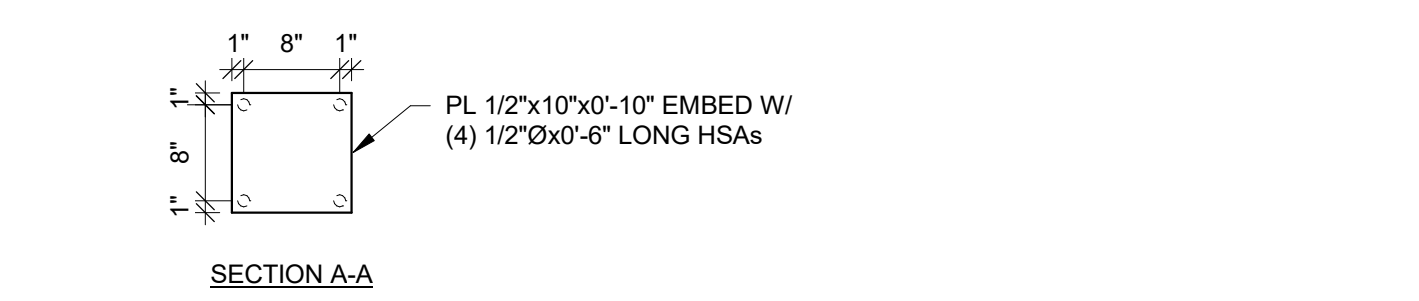
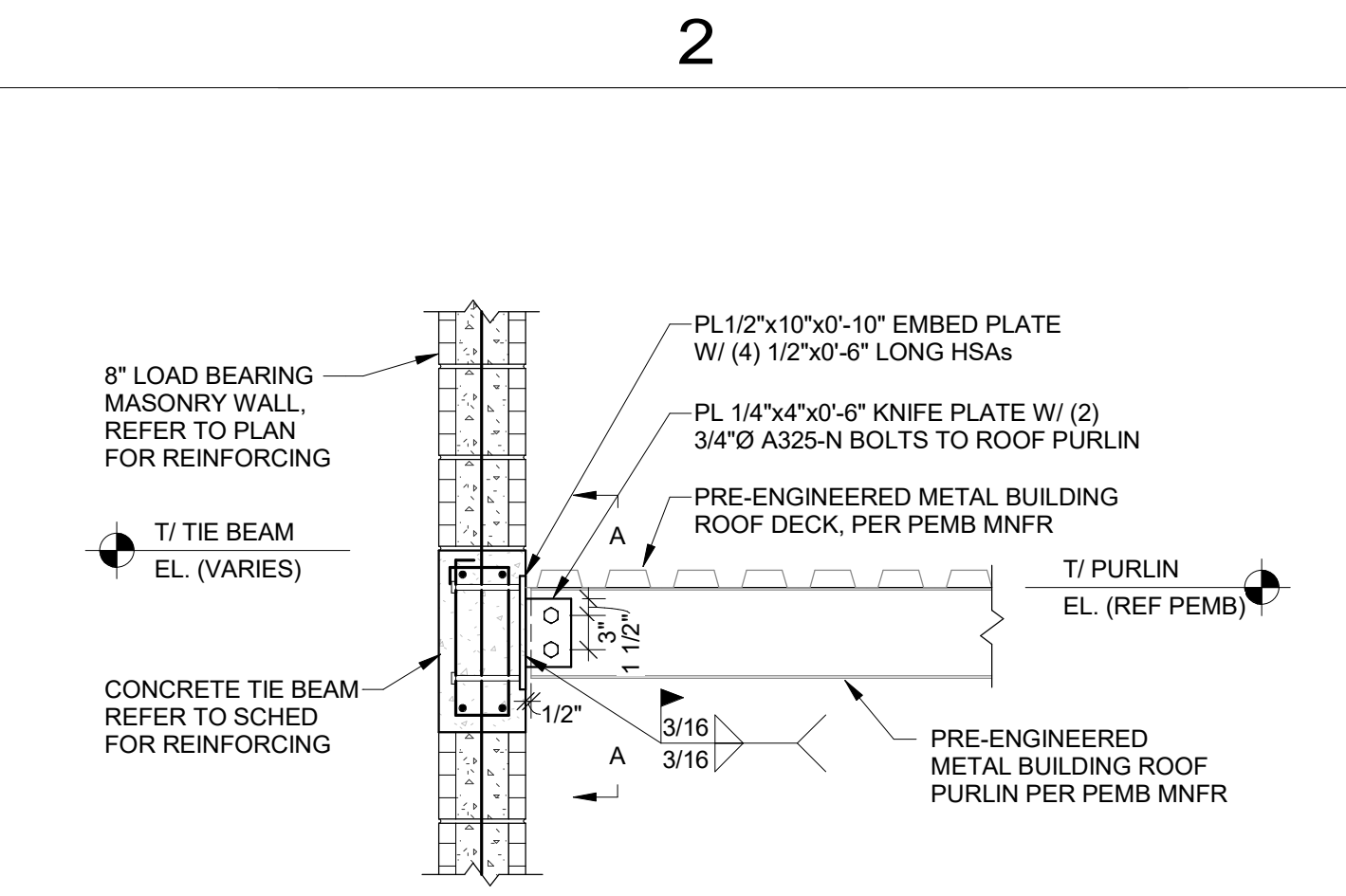


LOAD CASE	ADMIN. MAINT. BAY				ADMIN. BLDG											
	HL	VL	HR	VR	DL	VL	VM	HR	VR	HZ	DL	VL	VM	HR	VR	HZ
DL	0.32	1.53	-0.32	1.53	0.00	0.22	0.00	0.55	0.00	0.22	0.00	0.00	0.86	0.00	0.86	0.00
CL	1.26	6.12	-1.26	6.12	0.00	0.86	0.00	2.20	0.00	0.86	0.00	0.00	1.72	0.00	1.72	0.00
LLR	2.52	12.23	-2.52	12.23	0.00	1.72	0.00	4.40	0.00	1.72	0.00	0.00	4.40	0.00	4.40	0.00
WL	-6.05	-12.00	-5.56	-8.05	-5.71	-3.95	0.00	-8.43	-3.28	-3.95	5.73	0.00	0.00	0.00	0.00	0.00
DL	0.58	1.53	-0.58	1.53	0.00	0.22	0.00	0.55	0.00	0.22	0.00	0.00	0.87	0.00	0.87	0.00
CL	2.31	6.12	-2.31	6.12	0.00	0.87	0.00	2.19	0.00	0.87	0.00	0.00	1.75	0.00	1.75	0.00
LLR	4.63	12.23	-4.63	12.23	0.00	1.75	0.00	4.37	0.00	1.75	0.00	0.00	4.37	0.00	4.37	0.00
WL	-5.00	-11.37	-1.46	-8.68	-3.44	-3.95	0.00	-8.43	-2.11	-3.95	4.23	0.00	0.00	0.00	0.00	0.00

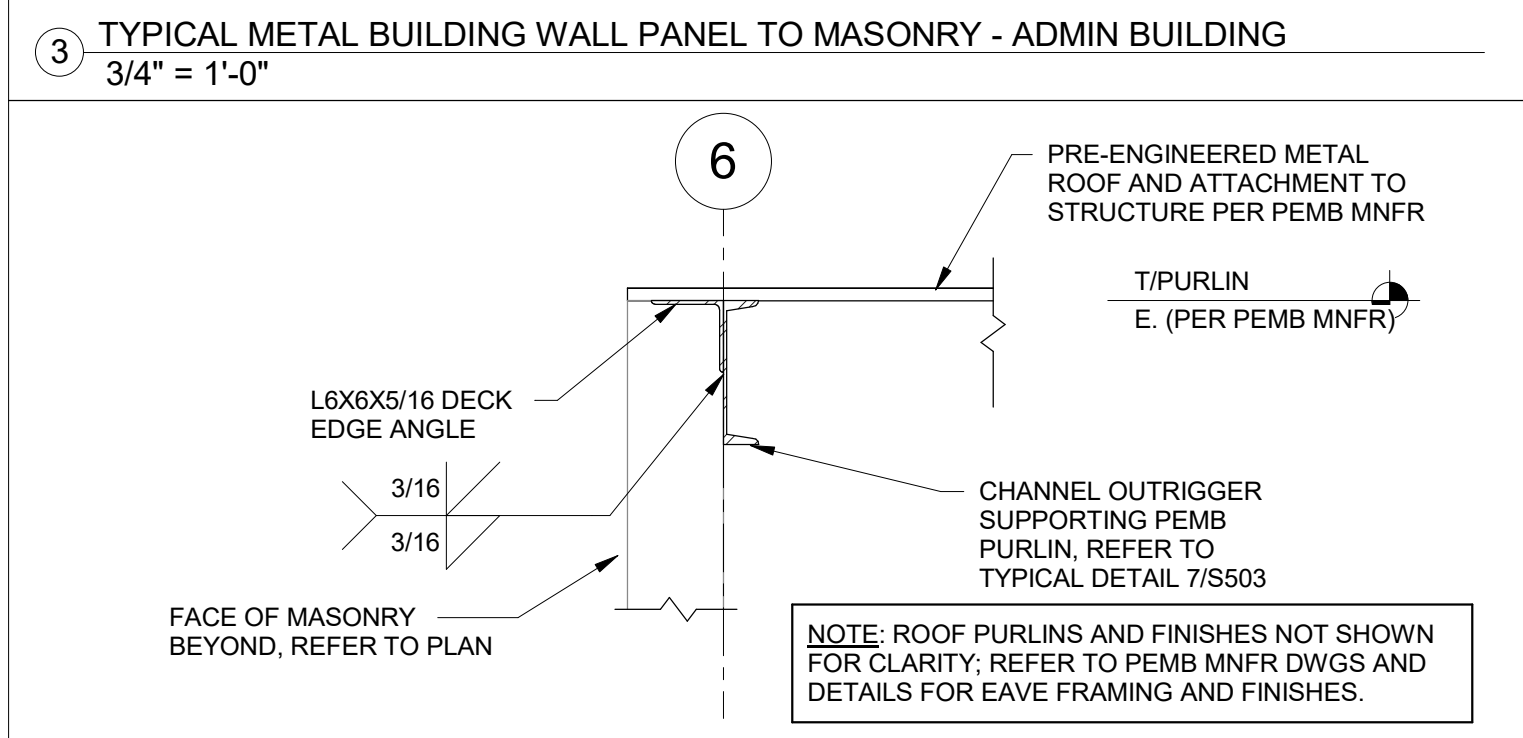
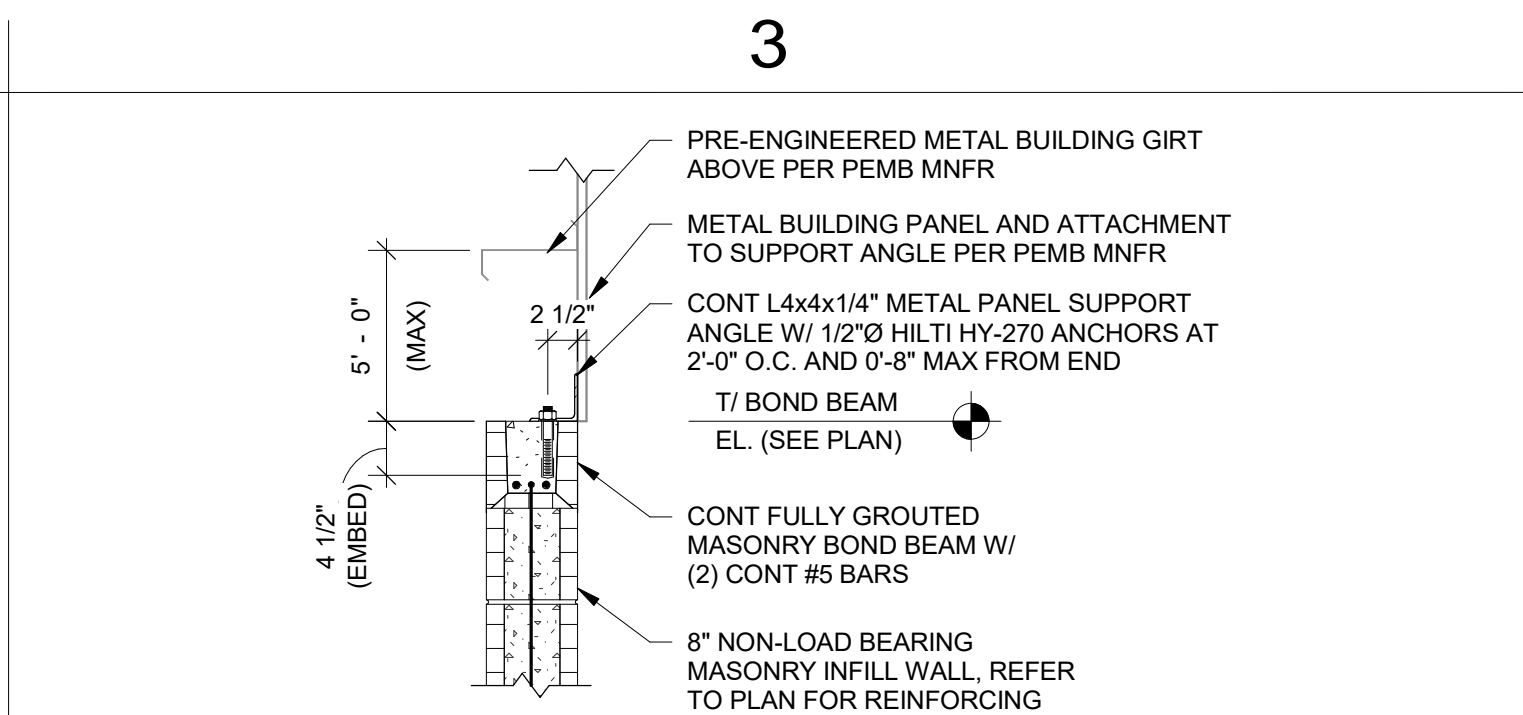
MAIN FRAME REACTIONS **END FRAME REACTIONS**

REACTION NOTES:
 1. LOADS ARE UNFACTORED ALLOWABLE IN KIPS AND FEET
 2. DL = DEAD LOAD
 3. CL = COLLATERAL LOAD
 4. LLR = ROOF LIVE LOAD
 5. WL = WIND LOAD (NOMINAL PRESSURES)
 6. REACTIONS ARE REVERSIBLE FOR LOAD CASES WITH WIND LOADS
 7. ALL COLUMNS ARE ASSUMED TO BE PINNED AT FOUNDATION
 8. TABULATED PRE-ENGINEERED METAL BUILDING FRAME REACTIONS ARE PRELIMINARY PRESUMPTIVE REACTIONS TO BE VERIFIED WITH THE FINAL PRE-ENGINEERED METAL BUILDING CALCULATIONS PROVIDED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER'S DELEGATED SPECIALTY ENGINEER. FINAL FOUNDATION SIZE AND DETAILS ARE TO BE COORDINATED WITH THE REACTIONS PROVIDED BY THE METAL BUILDING MANUFACTURER

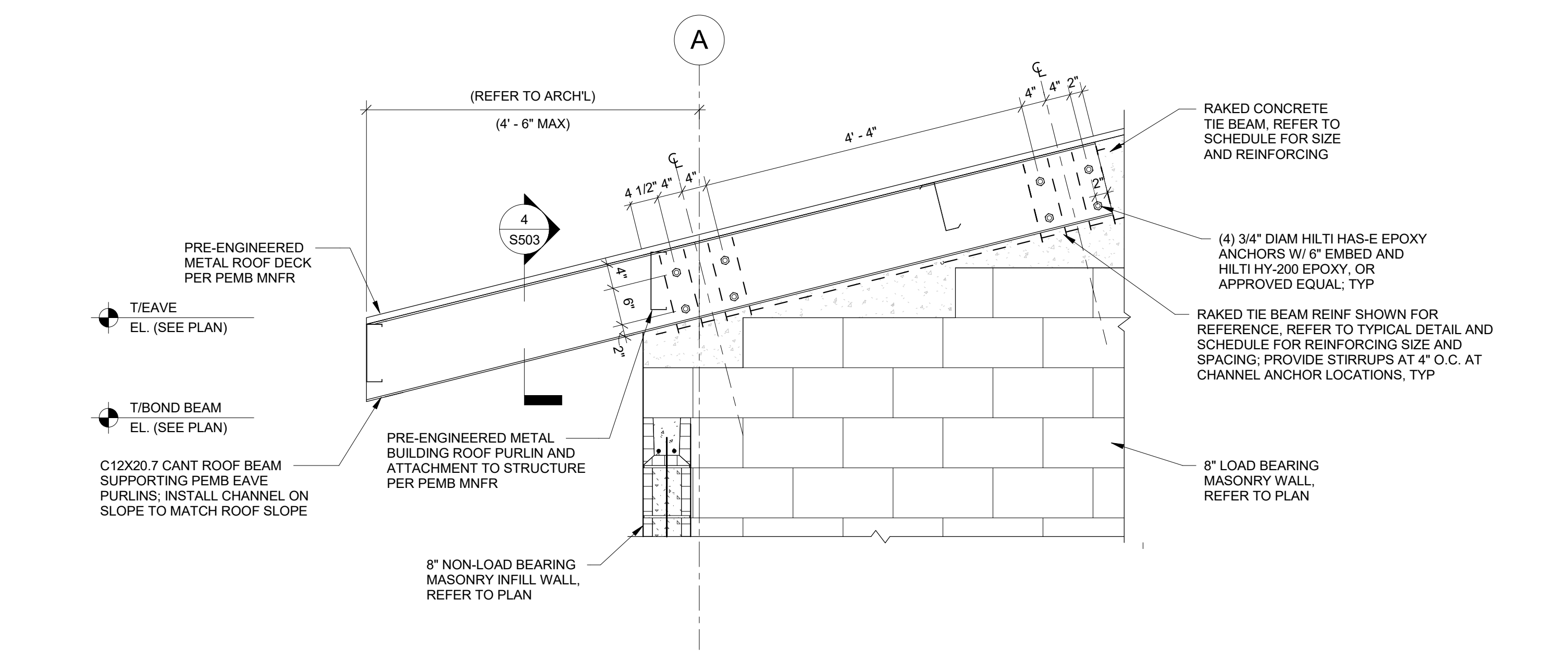
1 PEMB FRAME REACTIONS
3/4" = 1'-0"



2 TYPICAL PEMB PURLIN AT TIE BEAM
3/4" = 1'-0"

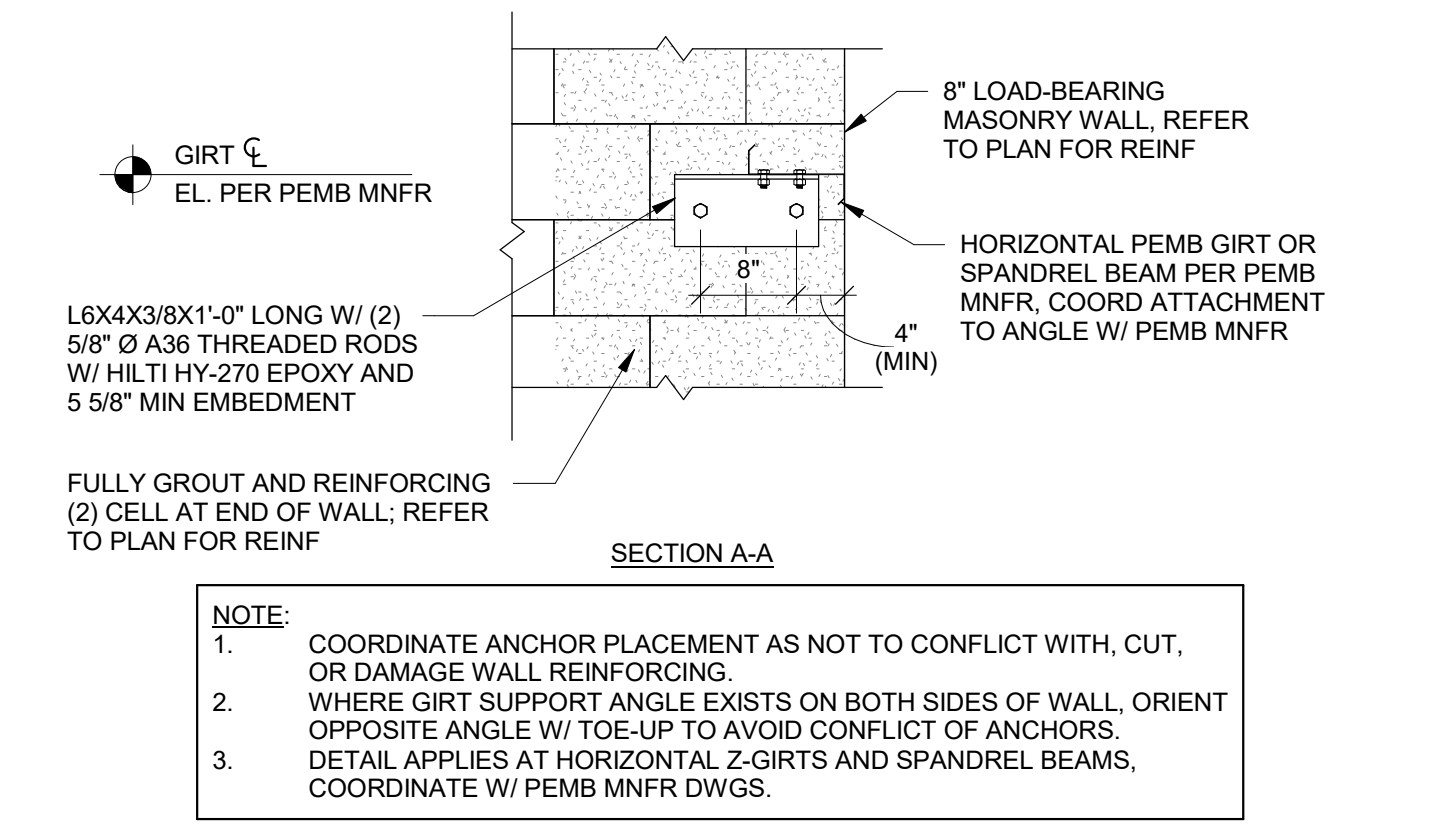
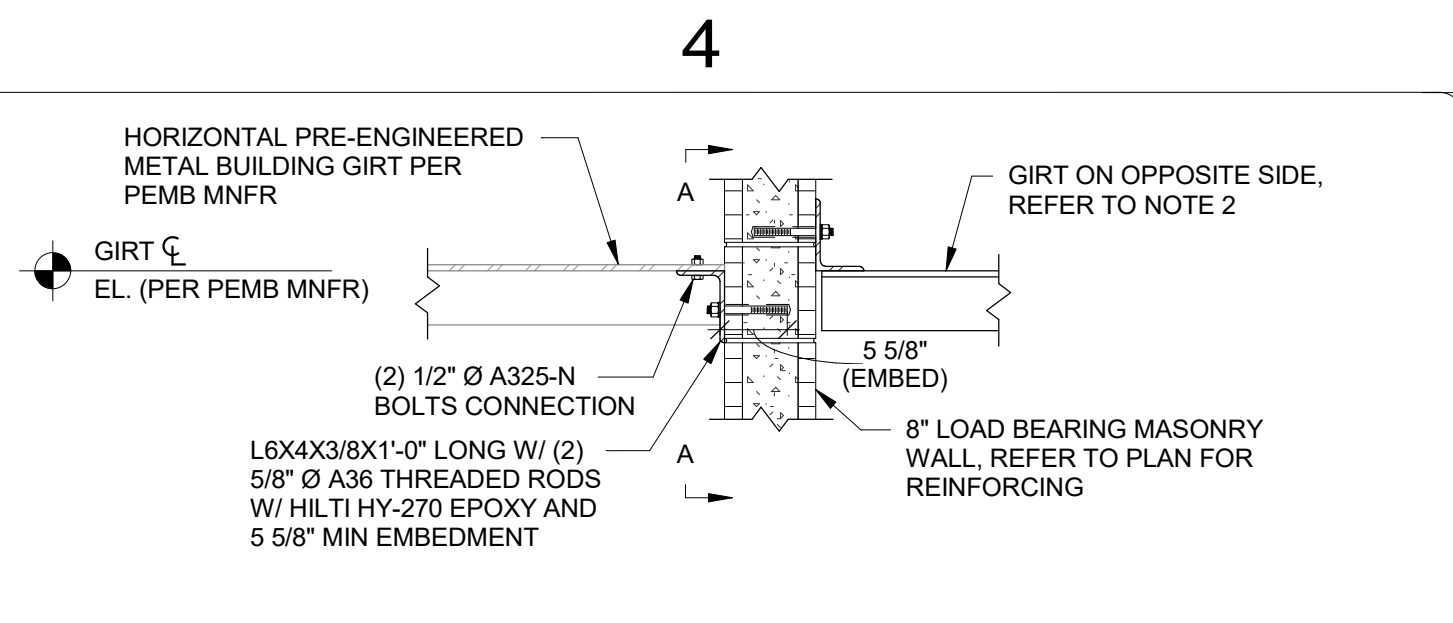


3 TYPICAL HORIZONTAL GIRTS TO LOAD BEARING MASONRY WALL
3/4" = 1'-0"



6 TYPICAL DETAIL MASONRY INFILL WALL TO HORIZONTAL PEMB GIRTS
1" = 1'-0"

7 TYPICAL DETAIL SUPPORT OF EAVE FRAMING AT MASONRY WALL
3/4" = 1'-0"



8 TYPICAL HORIZONTAL GIRTS TO LOAD BEARING MASONRY WALL
3/4" = 1'-0"

NOTE:
 1. COORDINATE ANCHOR PLACEMENT AS NOT TO CONFLICT WITH, CUT, OR DAMAGE WALL REINFORCING.
 2. WHERE GIRTS SUPPORT ANGLE EXISTS ON BOTH SIDES OF WALL, ORIENT OPPOSITE ANGLE W/ TOE-UP TO AVOID CONFLICT OF ANCHORS.
 3. DETAIL APPLIES AT HORIZONTAL Z-GIRTS AND SPANDREL BEAMS. COORDINATE W/ PEMB MNFR DWGS.

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TYPICAL STRUCTURAL STEEL DETAILS
S503
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 JOB # GC-20-033

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ABBREVIATIONS	
CW	COLD WATER
HW	HOT WATER
DWR	HOT WATER RETURN
W	DRAIN, WASTE, AND VENT
WV	WASTE
GW	GREASE WASTE
FM	FORCE MAIN
COND.	CONDENSATE
V	VENT
VTR	VENT THRU ROOF
CO	CLEANOUT
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
ECO	EXTERIOR CLEANOUT (GRADE)
B.V.	BALANCING VALVE
AB.	ABOVE
DN.	DOWN
CLG.	CEILING
D/H	OVERHEAD
MIN.	MINIMUM
C.P.	CHROME PLATED
S.S.	STAINLESS STEEL
SL.	SLOPE
GA.	GAUGE
BLDG.	BUILDING
CONN.	CONNECTION
A.H.A.P.	AS HIGH AS POSSIBLE
A.F.F.	ABOVE FINISHED FLOOR
B.F.F.	BELOW FINISHED FLOOR
F.F.E.	FINISHED FLOOR ELEVATION
I.E.	INVERT ELEVATION
FD	FLOOR DRAIN
AD	AREA DRAIN
FS	FLOOR SINK
CD	CONDENSATE DRAIN
CR	CONDENSATE RECEPTOR
HB	HOSE BIBB

PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE	SOIL	WASTE	VENT	HW	CW	MANUFACTURER
WC-1 (ADA)	FLOOR MOUNTED FLUSH VALVE WATER CLOSET	4"	—	2"	—	1"	AMERICAN STANDARD #3043.001 "MADERA", CENTOCO #500CC SEAT WITH S.S. HINGE POSTS, AND SLOAN G2 8111-1.6 GPF FLUSH VALVE. JONES C27-150 CAST BRASS CLOSET SPUD WITH WASHER & METAL FRICTION RING. MOUNT W/ SEAT 17.5" A.F.F. SEE NOTE 4' BELOW.
U-1 (ADA)	WALL HUNG URINAL	2"	—	2"	—	3/4"	AMERICAN STANDARD #6590.125 "WASHROCK", SLOAN G2 8188-1.0 GPF FLUSH VALVE. JONES C-27-134 CAST BRASS URINAL SPUD WITH WASHER & METAL FRICTION RING, AND CHAIR CARRIER. SEE NOTE 4' BELOW.
L-1 (ADA)	WALL HUNG LAVATORY (STAFF)	—	1/2"	2"	1/2"	1/2"	AMERICAN STANDARD #0356.421 "LUCERNE", SLOAN EBF815 DM 4CC LAV FAUCET WITH SGPM SPRAY HEAD, BATTERY POWERED, SENSOR ACTIVATED, MCGUIRE #159WC C.P. OFFSET OPEN GRID DRAIN WITH 17 GA. TAILPIECE, #8872 17 GA. C.P. "P" TRAP WITH WALL BEND, #H2165LK C.P. SUPPLY WITH LOOSE KEY STOP. CONCEALED ARM CHAIR CARRIER, AND TRUEBRO #103 INSULATION KIT. SEE NOTE 4' BELOW. T & S EC-TMV MIXING VALVE.
S-1	DOUBLE COMPARTMENT SINK	—	1/2"	2"	1/2"	1/2"	ELKAY DAYTON "DSE233225" DOUBLE COMPARTMENT SINK, MOEN "758WC" CHROME ARBOR MOTION SENSE WAVE PULL DOWN FAUCET, MCGUIRE #9912 17 GA. C.P. "P" TRAP WITH WALL BEND AND #H2165LK C.P. SUPPLIES WITH LOOSE KEY STOP. WATTS #LFMMV MIXING VALVE.
MS-1	MOLDED STONE MOP SINK	—	3"	2"	1/2"	1/2"	ZURN "Z1996-24" MOP SINK, T & S B-0685 FAUCET, #932-AA HOSE & BRACKET, #889-CC MOP HANGER, 48" HIGH S.S. WALL GUARD, #E-77-AA S.S. BUMPERGUARDS.
EW-1 (ADA)	WALL HUNG HILO EWC AND BOTTLE FILLER	—	1/2"	2"	—	1/2"	ELKAY #EZO8WSLK, MCGUIRE #8872 17 GA. C.P. "P" TRAP WITH WALL BEND, #H2165LK C.P. SUPPLY WITH LOOSE KEY STOP, AND CARRIER SEE NOTE 4' BELOW.
IB-1	REFRIGERATOR ICE MAKER HOOK-UP BOX	—	—	—	—	1/2"	GUY GRAY #MIB18A OUTLET BOX WITH VALVE AND WATER HAMMER ARRESTOR. COORDINATE EXACT LOCATION AND ELEVATION WITH EQUIPMENT.
TMV-1	THERMAL MIXING VALVE	—	—	—	SEE DRAWING	SEE DRAWING	BRADLEY S59-2045 NAVIGATOR TMV45 STANDARD THERMOSTATIC MIXING VALVE.
WB-1	WASHING MACHINE OUTLET BOX	—	2"	2"	1/2"	1/2"	GUY GRAY #MWB-19 OUTLET BOX WITH 2" CENTER DRAIN, 1/4 TURN VALVES, AND WATER HAMMER ARRESTORS.
SH-1	SHOWER - ADA	—	3"	2"	1/2"	1/2"	SYMMONS MODEL #C-98-590-B30-V-X-2.0 ADA COMPLIANT - PRESSURE BALANCING SHOWER FITTING, FIXED & HAND HELD SHOWER AND WALL BRACKET, INTEGRAL SERVICE STOPS, 30" SLIDE BAR, 60" FLEXIBLE METAL HOSE, ADA HAND SHOWER WAND IN CHROME

- PLUMBING FIXTURE NOTES:**
- WHERE COLOR/FINISH OPTIONS ARE AVAILABLE FOR FIXTURES, SELECTIONS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
 - VERIFY SINK DIMENSIONS WITH ARCHITECT.
 - REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF ALL FIXTURES.
 - FIXTURES FOR USE BY THE DISABLED:
 - INSTALL IN ACCORDANCE WITH A.D.A., STATE, AND LOCAL REQUIREMENTS.
 - THE FORCE REQUIRED TO ACTIVATE FLUSH VALVES SHALL BE 5 LBS MAXIMUM.
 - FLUSH ACTIVATOR SHALL BE LOCATED ON WIDE SIDE OF THE STALL.
 - THE FAUCET CONTROLS AND THE OPERATING MECHANISM (OPERABLE WITH ONE HAND) SHALL BE OF THE TYPE NOT REQUIRING AN OPERATING FORCE EXCEEDING 5 LBS, OR TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
 - ACCESSIBLE FIXTURES FOR CHILDREN SHALL COMPLY WITH FLORIDA BUILDING CODE 423.4.4.

FLOOR DRAIN/FLOOR SINK SCHEDULE			
MARK	BODY	GRATE OR STRAINER	MANUFACTURER
FD-1	CAST IRON	6" NICKEL BRONZE, ROUND	J.R. SMITH #2005-A06-NB WATTS #FD-100-A6 ZURN #ZN-415-6B
TD-1	STAINLESS STEEL	LINEAR SLOTTED HEEL-PROOF GRATE	ZURN #ZS880, TYPE 304 STAINLESS STEEL LINEAR DRAIN

- FLOOR DRAIN NOTES:**
- FURNISH ALL FLOOR DRAINS WITH TRAP SEAL PROTECTION DEVICES. SEE SCHEDULE, THIS SHEET.
 - FURNISH ALL FLOOR DRAINS WITH SAME SIZE TRAP AS BRANCH LINE. REFER TO PLANS FOR CONN. SIZES.
 - PROVIDE ALL DRAINS WITH WIDE ANCHOR FLANGE AND CLAMPING DEVICE. ATTACH DRAINS TO MEMBRANE IN FLOOR. WHEN DRAINS ARE LOCATED IN NON-MEMBRANE FLOORS, THEY SHALL BE FLASHED IN COMPLIANCE WITH THE SPECIFICATIONS.

CLEANOUT SCHEDULE		
MARK	APPLICATION	MANUFACTURER
FCO	FINISHED FLOORS, HEAVY DUTY	J.R. SMITH #4113L; WATTS #CO-200-RX; ZURN #ZN-1400-HD
WCO	LINE CLEANOUTS	J.R. SMITH #4472T; WATTS #CO-590-RD; ZURN #Z-1468
	STACK CLEANOUTS	J.R. SMITH #4532S; WATTS #CO-460-RD; ZURN #Z-1446

- NOTES:**
- INSTALL ECO IN 24"x24"x4" THICK CONCRETE PAD. TOP OF PAD ELEVATION TO BE 2" ABOVE FINISHED GRADE.
 - PROVIDE ALL CLEANOUTS WITH WIDE ANCHOR FLANGE & CLAMPING DEVICE. ATTACH CLEANOUTS TO MEMBRANE IN FLOOR. WHEN CLEANOUTS ARE LOCATED IN NON-MEMBRANE FLOORS, THEY SHALL BE FLASHED IN COMPLIANCE WITH THE SPECIFICATIONS.
 - PROVIDE LINE & STACK TYPE WALL CLEANOUTS WITH ACCESS COVERS.

PLUMBING SYMBOL LEGEND		
SYMBOL	DESCRIPTION	ABBREVIATION
	CHECK VALVE	CV
	GATE VALVE	GV
	BALL VALVE	BV
	SOLENOID VALVE	SV
	SHUT-OFF COCK	-
	CALIBRATED BALANCING VALVE	BV
	PRESSURE REGULATING VALVE	PRV
	ROLL DOWN	DN
	ELBOW TURNED DOWN	DN
	ELBOW TURNED UP	UP
	TEE TURNED UP	UP
	P-TRAP	-
	TEE TURNED DOWN	DN
	PLUG OR WALL CLEAN OUT	CO
	FLOOR CLEAN OUT	FCO
	EXTERIOR CLEAN OUT	ECO
	PRESSURE & TEMPERATURE RELIEF VALVE	T & P
	VENT THROUGH ROOF	VTR
	UNION	-
	FLOOR DRAIN	FD
	ROOF DRAIN	RD
	UTILITY FLOOR BOX	-
	WALL HYDRANT	WH
	HOSE BIBB	HB
	FLOW ARROW	-
	SHOCK ARRESTER	SA
	POINT OF DEMOLITION	POD
	POINT OF CONNECTION	POC
	PLUMBING FIXTURE DESIGNATION	XX-1
	PRESSURE GAGE	-
	THERMOMETER	-
	REDUCED PRESSURE DETECTOR ASSEMBLY	RPDA
	GREASE TRAP	-
	WATER METER	M
	FLOOR SLAB ELEVATION	ELEV
	INDICATES RISER/DETAIL NUMBER, SHEET FOUND, AND RISER VIEW, (IF APPLICABLE)	-

ELECTRIC WATER HEATER SCHEDULE					
MARK	STORAGE IN GALLONS	RECOVERY @ 70 DEG. RISE	KW INPUT POWER	VOLT/PHASE	BASIS OF DESIGN
EW-1	50 GAL	53 GPH	9.0 KW	208V/3PH	A.O. SMITH - DRE-52-9

ELECTRIC WATER HEATER NOTES:

- SET OUTLET TEMPERATURE OF TANK HEATERS TO PROVIDE 140° F HOT WATER.
- SEE PIPING DETAILS, SHEET P801

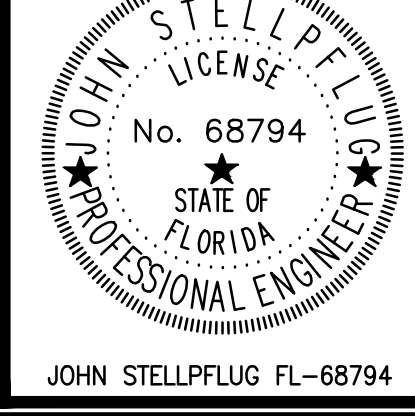
CIRCULATION PUMP SCHEDULE				
MARK	SERVING	GPM	HEAD	MANUFACTURER & MODEL NUMBER
CP-1	EW-1	3.0	3.0	TACO #006-SC4-1
CP-2	EW-1	1.0	1.0	TACO #003-SC4-1

BOOSTER PUMP SCHEDULE					
MARK	GPM	BOOST	MOTOR	MANUFACTURER	NOTES
BP-1	60	30 PSI	(2) 3 HP 208V / 3PH	GRUNDFOS #HYDRO MPC 2CME15-1	PUMP SHALL HAVE 1 ACTIVE + 1 STANDBY. ALL PUMPS ARE SPEED CONTROLLED.

- PLUMBING GENERAL NOTES**
- REFERENCE THE SPECIFICATIONS FOR MATERIALS AND EQUIPMENT STANDARDS.
 - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE FLORIDA BUILDING CODE 6TH EDITION (2017) AND THE FLORIDA BUILDING CODE 6TH EDITION (2017), PLUMBING.
 - THE INSTALLATION OF THE PLUMBING SYSTEMS AND EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO STATE AND LOCAL CODES.
 - THE CONTRACTOR SHALL COORDINATE THE INTERRUPTION OF ALL UTILITY SERVICES WITH OWNER'S REPRESENTATIVE. PROVIDE A MINIMUM OF FIVE WORKING DAYS ADVANCED NOTICE, OR PER PLUMBING SPECIFICATIONS, OF SCHEDULED UTILITY DISCONNECTION.
 - PROVIDE ANY ADDITIONAL FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN PROPER CLEARANCES. COORDINATE WITH ALL TRADES AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
 - CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
 - INSTALL CODE REQUIRED FIXED AIR GAPS ON ALL INDIRECT WASTE CONNECTIONS SERVING EQUIPMENT, AND APPLIANCES.
 - PROVIDE CLEANOUTS ON ALL SANITARY DRAIN & WASTE PIPING AS INDICATED ON THE DRAWINGS, AND AS REQUIRED BY LOCAL AND STATE CODES. INSTALL CLEANOUTS IN ACCESSIBLE LOCATIONS. COORDINATE TOP OF FLOOR/GRADE CLEANOUT ELEVATION WITH TOP OF FINISHED GRADE.
 - UNLESS NOTED OTHERWISE, SLOPE ALL SANITARY DWV 3" PIPE SIZE & LARGER A MINIMUM OF 1/8" PER FT. OF RUN, AND 2" PIPE SIZE AND SMALLER A MINIMUM 1/4" PER FT. OF RUN. SLOPE VENT PIPING DOWN & BACK TO FIXTURES.
 - EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FT. FROM, OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT.
 - EXTEND EXISTING PLUMBING VENTS WHERE REQUIRED TO MAINTAIN A MINIMUM OF 8' ABOVE THE NEW FINISHED ROOF SURFACE.
 - PROVIDE WATER HAMMER ARRESTORS AT ALL PLUMBING FIXTURES OR BATTERY OF FIXTURES WITH QUICK-CLOSING VALVES. INSTALL PER WATER HAMMER ARRESTORS SCHEDULE. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER HAMMER ARRESTORS AND SHALL NOT BE INSTALLED. QUICK CLOSING VALVES ARE DEFINED IN THE PDI HANDBOOK. ALL SENSOR OPERATED VALVES SHALL BE CONSIDERED QUICK CLOSING.
 - UNLESS NOTED OTHERWISE, RUN CW & HW PIPING FULL SIZE THRU LENGTH OF CHASE, AND MAKE CONNECTIONS TO FIXTURES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE. PROVIDE RIGID SUPPORT AND BLOCKING IN CHASE FOR HEADER AND BRANCH PIPING, AND FOR FLUSH VALVES TO PREVENT ANY MOVEMENT. TAPE TO BEING USED TO ISOLATE DISSIMILAR METALS IS PROHIBITED.
 - PROVIDE ALL NECESSARY VALVES, TRAPS, FLOW CONTROLS, FILTERS, BACKFLOW ASSEMBLIES, FAUCETS, STOPS, TAILPIECES, VACUUM BREAKERS, IF NOT FURNISHED WITH EQUIPMENT.
 - PROVIDE SUPPLY STOPS ON HOT AND COLD WATER PIPE SUPPLYING ALL FIXTURES AND EQUIPMENT.
 - PROVIDE APPROVED CHROME PLATED TYPE VACUUM BREAKERS WHERE REQUIRED BY LOCAL CODES, AND AS INDICATED ON PLANS FOR NEW WORK.
 - PROVIDE DIELECTRIC UNIONS WHERE CONNECTIONS ARE MADE BETWEEN DISSIMILAR PIPE MATERIALS.
 - SEE RISER DIAGRAMS FOR PIPE SIZES AND ROUTING NOT SHOWN ON PLANS.
 - PRESSURE REDUCING VALVES SHALL BE PROVIDED WHERE THE WATER PRESSURE EXCEEDS 80 PSI AT ANY PLUMBING FIXTURE. WATER VELOCITY SHALL NOT EXCEED 5 FEET PER SECOND.
 - DO NOT PENETRATE WALL FOOTINGS WITH PIPING. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND THE LOCATION SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
 - IF THE INTENT OF THE INFORMATION SHOWN ON THESE DOCUMENTS IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT/ENGINEER SHALL MAKE CORRECTION OR EXPLANATION IN WRITING.
 - WHERE THE CONTRACTOR PROPOSES ALTERNATE SOLUTIONS, DIFFERENT ROUTINGS OF PIPING, DIFFERENT LOCATIONS OF EQUIPMENT, FIXTURES, ETC., THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE RAMIFICATIONS OF THE PROPOSED CHANGE THAT ARE NOT INCLUDED IN HIS PROPOSAL, BUT BECOME APPARENT AT A LATER DATE, AND SHALL BEAR THE CONSEQUENCES OF CORRECTING ANY AND ALL CONFLICTS, DEFICIENCIES OR OTHER PROBLEMS AT NO INCREASE IN COST OR INCREASE IN CONSTRUCTION TIME ALLOTTED.
 - CONTRACTOR SHALL INSTALL ALL EQUIPMENT PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS AND/OR RECOMMENDATIONS.
 - ALL MODEL NUMBERS SHOWN WITHIN THESE DOCUMENTS ARE ONLY PROVIDED TO INDICATE LEVEL OF QUALITY AND THE DESIGN INTENT. REFER TO THE PLUMBING SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS FOR EACH PRODUCT BEING USED.
 - REFER TO THE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS AND SPECIFICATIONS RELATING TO PLUMBING FIXTURE SELECTIONS, COLOR, FINISHES, AND PIPING ROUTING.

PLUMBING SYSTEM LEGEND	
	SOIL OR WASTE LINE BELOW GRADE/ BELOW SLAB
	SOIL OR WASTE LINE (ABOVE GRADE)
	FORCE MAIN LINE (BELOW GRADE)
	FORCE MAIN LINE (ABOVE GRADE)
	CONDENSATE DRAIN PIPING
	GREASE WASTE PIPING (BELOW GRADE)
	VENT PIPING
	STORM DRAIN LINE (BELOW GRADE)
	STORM DRAIN LINE (ABOVE GRADE)
	OVERFLOW STORM DRAIN (ABOVE GRADE)
	DOMESTIC COLD WATER PIPING
	HOT WATER PIPING
	EXISTING SANITARY PIPING
	EXISTING H&CW PIPING

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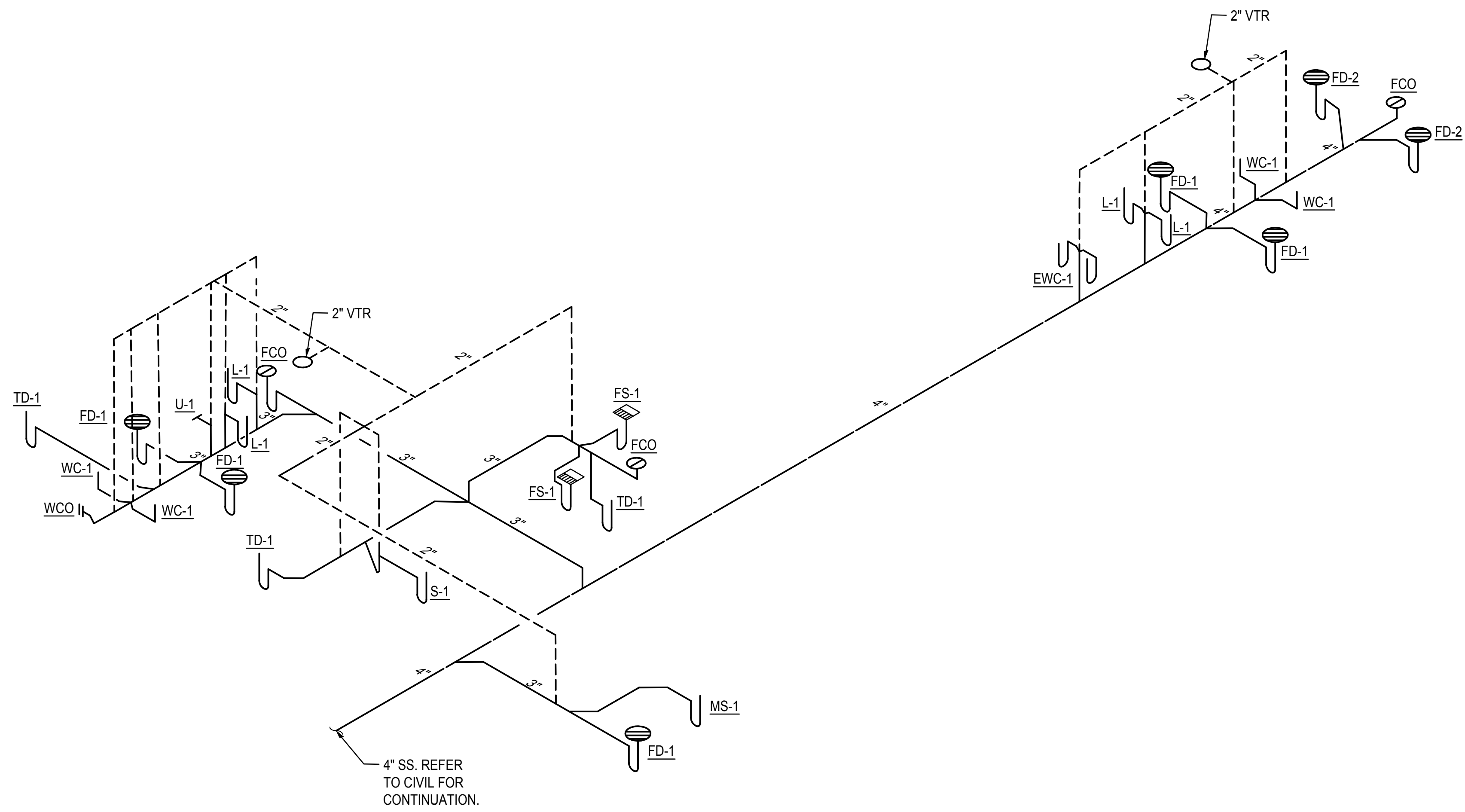
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PLUMBING SYMBOLS LEGEND
P001
ISSUE DATE 07-12-22

JOHN # GC-20-033

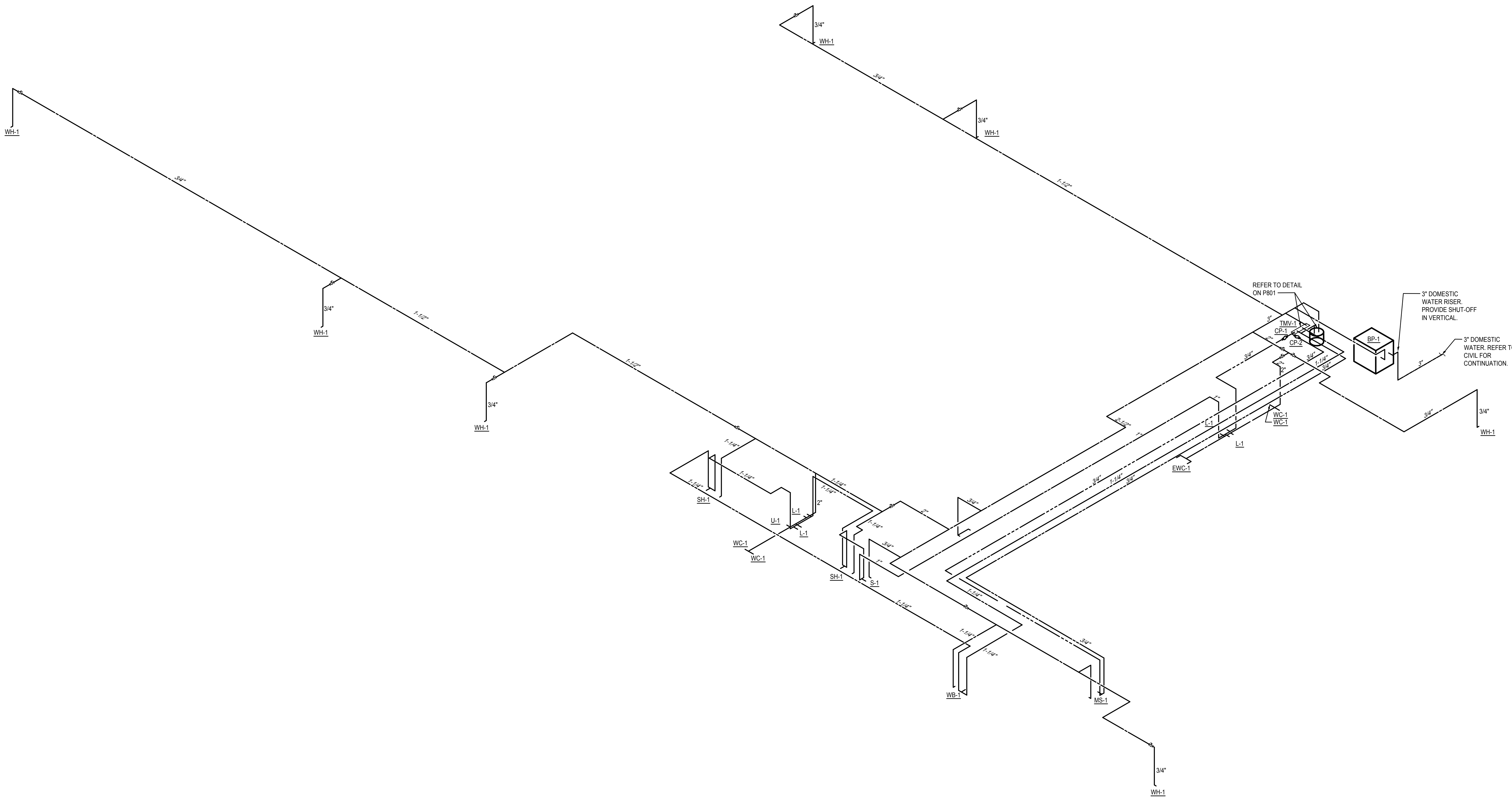


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PLUMBING RISER DIAGRAMS

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<p>PLUMBING RISER DIAGRAMS P501 ISSUE DATE 07-12-22</p>



PLUMBING RISER DIAGRAMS

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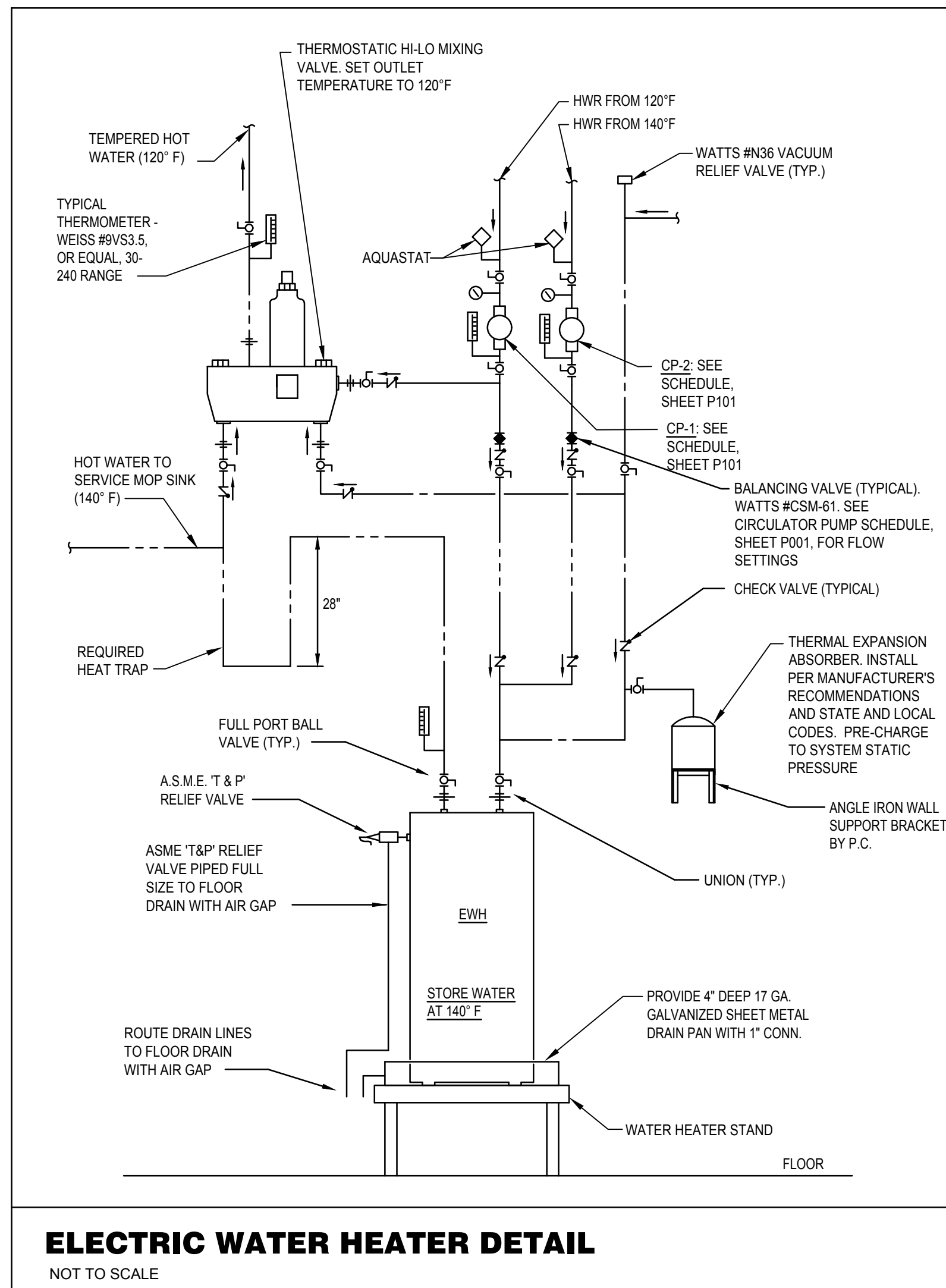
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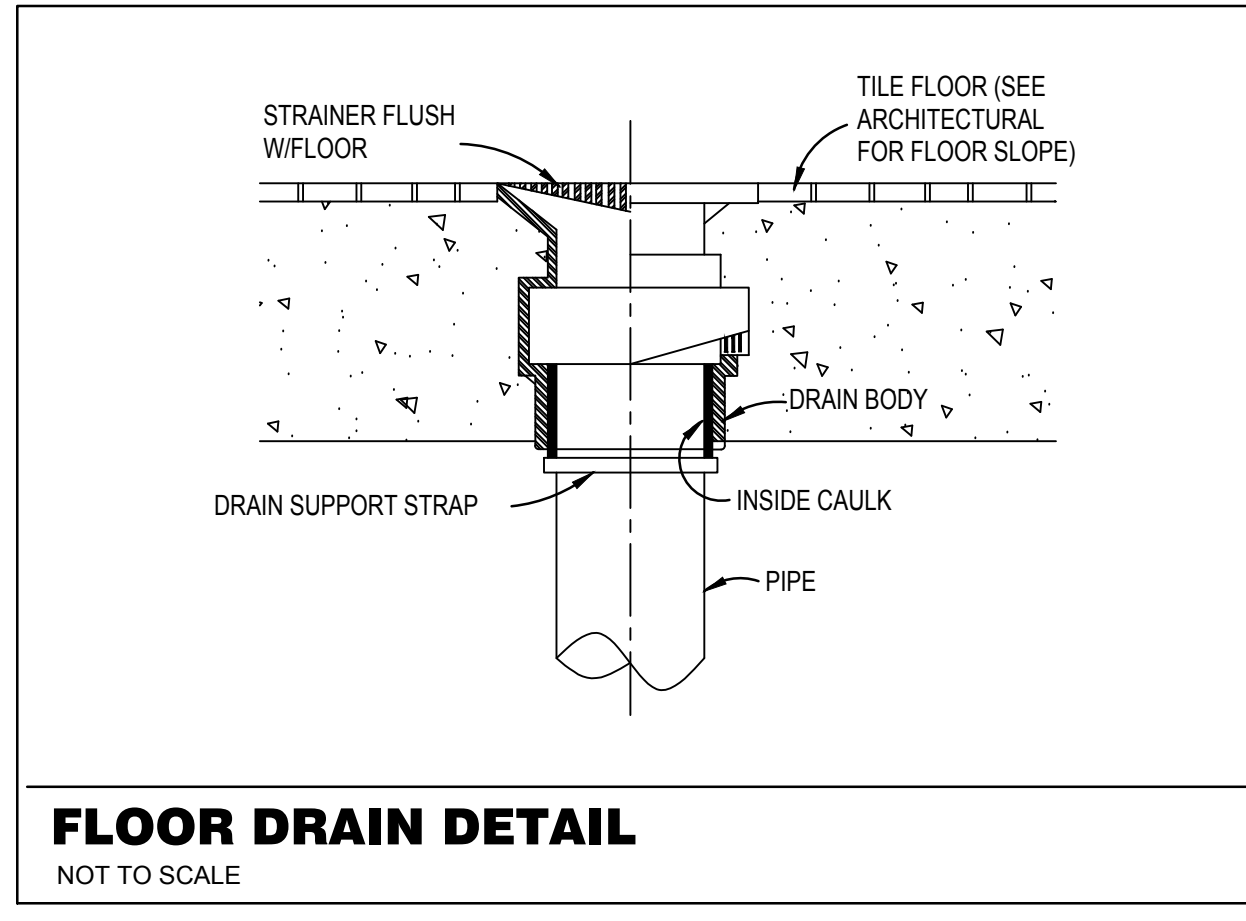
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P502
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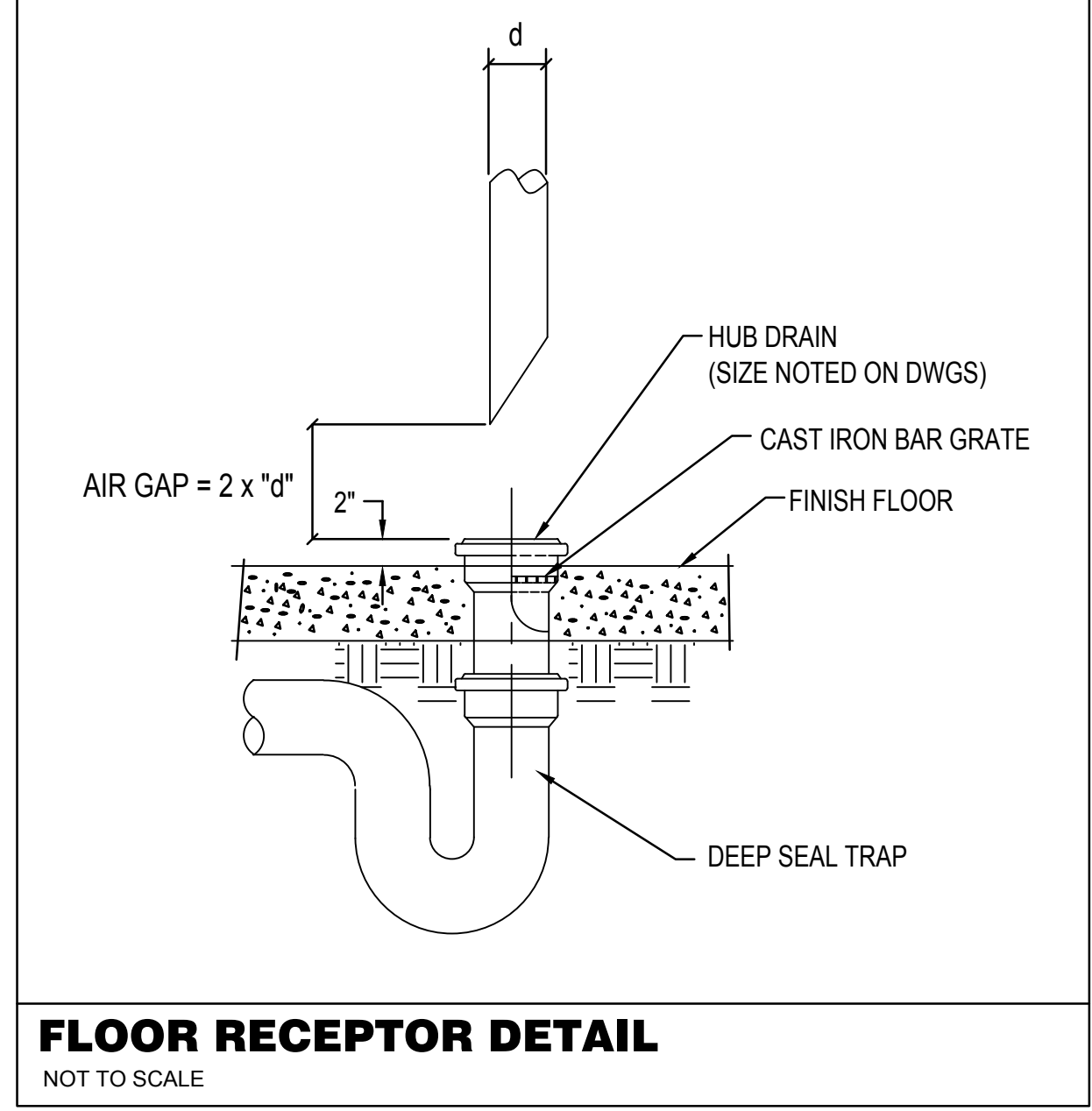
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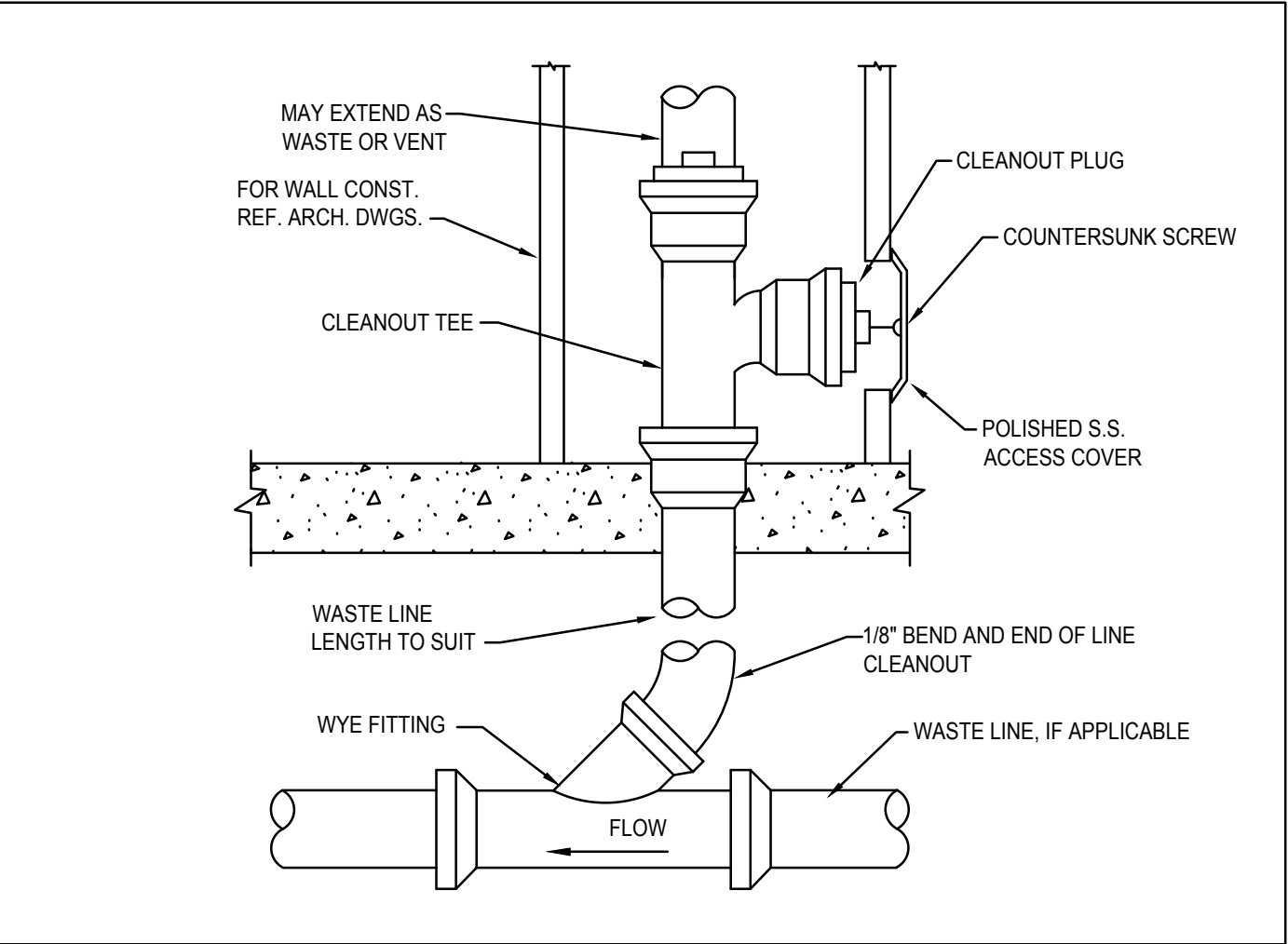
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NOT TO SCALE



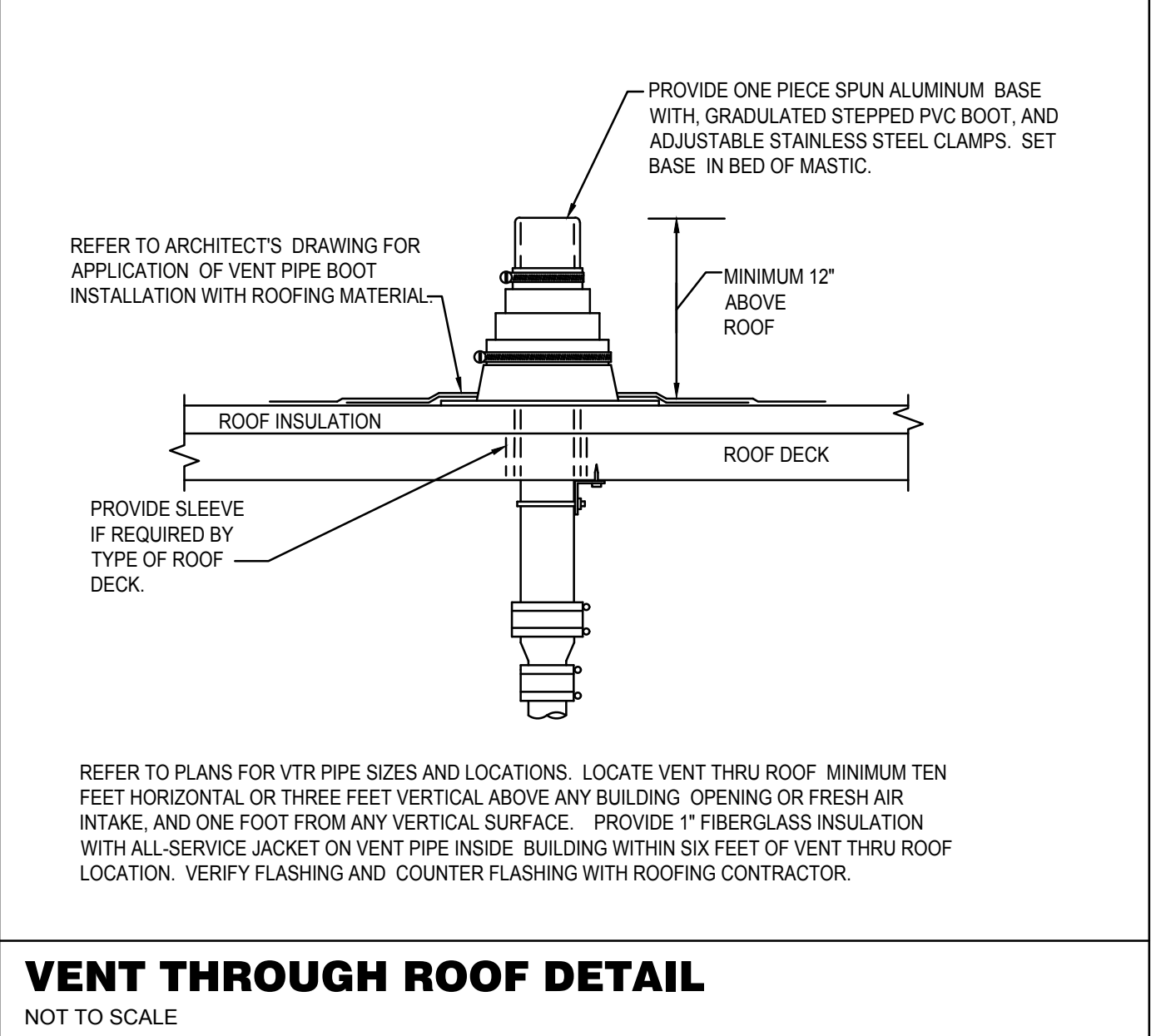
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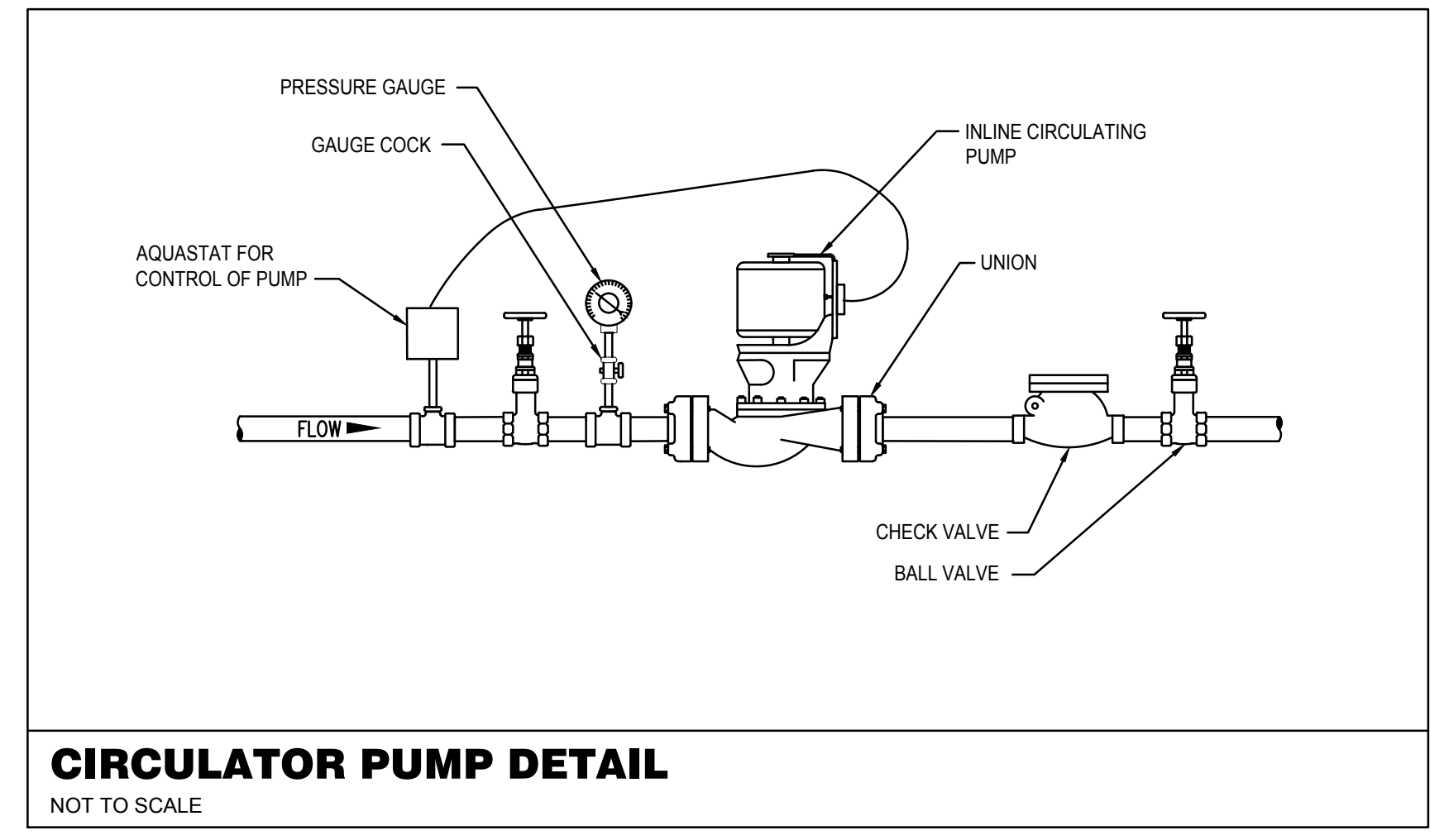
FLOOR RECEPTOR DETAIL
NOT TO SCALE



WALL CLEANOUT DETAIL
NOT TO SCALE



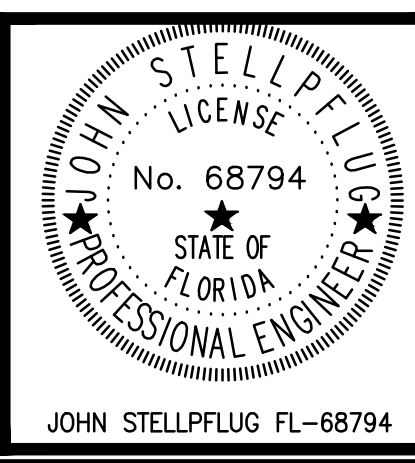
VENT THROUGH ROOF DETAIL
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CIRCULATOR PUMP DETAIL
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PLUMBING DETAILS

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PLUMBING DETAILS
P801
ISSUE DATE 07-12-22

JOB #: GC-20-033

THE FIRE SUPPRESSION ENGINEERING DOCUMENTS AND BOOK SPECIFICATIONS ARE PREPARED EXCLUSIVELY FOR THIS PROJECT AND ARE IN COMPLIANCE WITH THE FOLLOWING STANDARD. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PREPARING WORKING PLANS AND HYDRAULIC CALCULATIONS AS DEFINED BY 2013 ED. NFPA 13. THE WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE APPROVED SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR FINAL APPROVAL AND BUILDING PERMIT.

61G15-32.003 COMMON REQUIREMENTS TO ALL FIRE PROTECTION ENGINEERING DOCUMENTS.

- (1) THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS SHALL PROVIDE THE ENGINEERING REQUIREMENTS TO BE USED IN THE PREPARATION OF THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS AND TO INDICATE THE NATURE AND SCOPE OF THE WORK, AND TO DESCRIBE, DETAIL, DIMENSION, LABEL AND DEFINE THE FIRE PROTECTION COMPONENTS, SYSTEM(S), MATERIALS, ASSEMBLIES, EQUIPMENT AND ITS STRUCTURAL AND UTILITY SUPPORT SYSTEM(S), INsofar AS THEY INVOLVE THE SAFEGUARDING OF LIFE, HEALTH OR PROPERTY.
 - (2) THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS SHALL SPECIFY THE APPLICABLE REQUIREMENTS FOR THE ACCEPTANCE TESTING OF THE FIRE PROTECTION SYSTEM AND COMPONENTS, WHICH SHALL BE BASED UPON APPLICABLE CODES AND STANDARDS, WHERE AVAILABLE.
 - (3) THE OCCUPANCY OF THE AREA OR DESCRIPTION OF A SPECIFIC HAZARD BEING PROTECTED BY THE FIRE PROTECTION SYSTEM(S) SHALL BE SHOWN ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.
 - (4) THE APPLICABLE CODE AND STANDARD TO BE USED IN THE PREPARATION OF THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS SHALL BE SHOWN ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS. WHEN CODES AND STANDARDS ARE NOT AVAILABLE OR APPLICABLE, AND SAID LAYOUT DOCUMENTS ARE TO BE BASED ON ENGINEERING JUDGMENT, ANY REASONS AND ASSUMPTIONS MADE TO DEVELOP THE FIRE PROTECTION CONCEPT SHALL BE IDENTIFIED ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.
 - (5) STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS REQUIRED BY THE FIRE PROTECTION SYSTEM SHALL BE SHOWN ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS AND SHALL BE REFERENCED ON STRUCTURAL ENGINEERING DOCUMENTS.
 - (6) WHEN LAYOUT DOCUMENTS CONTAIN MATERIAL DEVIATION FROM THE ENGINEER OF RECORD'S FIRE PROTECTION SYSTEM ENGINEERING DOCUMENT, SUCH LAYOUT DOCUMENTS ARE NOT COMPLIANT UNLESS THEY ARE ACCOMPANIED BY REVISED ENGINEERING DOCUMENTS MADE AND SEALED BY THE ENGINEER OF RECORD FOR THE FIRE PROTECTION SYSTEM.
 - (7) REQUIREMENTS FOR ACTIVATION CONTROL SYSTEMS, SEQUENCE, OPERATING PARAMETERS, INTERLOCKS, SAFETY RELATED DEVICES, INDICATORS AND ALARMS, SHALL BE SHOWN ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS, UNLESS SHOWN ON OTHER RELATED DOCUMENTS.
 - (8) ANY INFORMATION DEEMED APPROPRIATE BY THE ENGINEER OF RECORD TO ASSIST THE AUTHORITY HAVING JURISDICTION IN UNDERSTANDING THE OWNER'S INTENDED USE AND PROPOSED PROTECTION OF THE BUILDING OR FACILITY AND TO PROVIDE SUFFICIENT DIRECTION TO THE INSTALLATION CONTRACTOR OR OTHER INTERESTED PARTIES REGARDING THE LAYOUT OF THE SYSTEM(S), SHALL BE INCLUDED IN THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.
- SPECIFIC AUTHORITY 471.008, 471.033(2), FS
LAW IMPLEMENTED 471.005(7), 471.033(2), FS
HISTORY-NEW 5-19-93, FORMERLY 21H-32.003, AMENDED 4-2-2000, 6-26-01
- 61G15-32.004 DESIGN OF WATER BASED FIRE PROTECTION SYSTEMS.**
- (1) WATER BASED FIRE PROTECTION SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO, AUTOMATIC SPRINKLER SYSTEMS OF WET, DRY, FIRE WATER SPRAY (MST), MANUAL AND DELUGE VALVE CONTROLLED TYPES, PUMPING SYSTEMS, STANDPIPES, FIRE WATER MAINS AND DEDICATED FIRE PROTECTION WATER SOURCES.
 - (2) TO ENSURE MINIMUM DESIGN QUALITY IN FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS, SAID DOCUMENTS SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION WHEN APPLICABLE:
 - (A) THE POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY AS DEFINED BY 633.021(18) F.S.
 - (B) APPLICABLE NFPA STANDARD TO BE APPLIED, OR IN THE CASE WHERE NO SUCH STANDARD EXISTS, THE ENGINEERING STUDY, JUDGMENTS, AND/OR PERFORMANCE BASED ANALYSIS AND CONCLUSIONS.
 - (C) CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA.
 - (D) DESIGN APPROACH, WHICH INCLUDES SYSTEM TYPE, DENSITIES, DEVICE TEMPERATURE RATING, AND SPACING FOR EACH SEPARATE HAZARD OCCUPANCY.
 - (E) CHARACTERISTICS OF WATER SUPPLY TO BE USED, SUCH AS MAIN SIZE AND LOCATION, WHETHER IT IS DEAD-END OR CIRCULATING; AND IF DEAD-END, THE DISTANCE TO THE NEAREST CIRCULATING MAIN, AS WELL AS ITS MINIMUM DURATION AND RELIABILITY FOR THE MOST HYDRAULICALLY DEMANDING DESIGN AREA.
 - (F) WHEN PRIVATE OR PUBLIC WATER SUPPLIES ARE USED, THE FLOW TEST DATA, INCLUDING DATE AND TIME OF TEST, WHO CONDUCTED TEST OR SUPPLIED INFORMATION, TEST ELEVATION, STATIC GAUGE PRESSURE AT NO FLOW, FLOW RATE WITH RESIDUAL GAUGE PRESSURE, HYDRANT FLOW COEFFICIENT, AND LOCATION OF TEST IN RELATION TO THE HYDRAULIC POINT OF SERVICE.
 - (G) VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER.
 - (H) MICROBIAL INDUCED CORROSION (MIC). THE ENGINEER OF RECORD SHALL MAKE REASONABLE EFFORTS TO IDENTIFY WATER SUPPLIES THAT COULD LEAD TO MICROBIAL INDUCED CORROSION (MIC). SUCH EFFORTS MAY CONSIST OF DISCUSSIONS WITH THE LOCAL WATER PURVEYOR AND/OR FIRE OFFICIAL, FAMILIARITY WITH CONDITIONS IN THE LOCAL AREA, OR LABORATORY TESTING OF WATER SUPPLIES. WHEN CONDITIONS ARE FOUND THAT MAY RESULT IN MIC CONTAMINATION OF THE FIRE PROTECTION PIPING, THE ENGINEER SHALL DESIGN CORRECTIVE MEASURES.
 - (I) BACKFLOW PREVENTION AND METERING SPECIFICATIONS AND DETAILS TO MEET LOCAL WATER PURVEYOR REQUIREMENTS INCLUDING MAXIMUM ALLOWABLE PRESSURE DROP.
 - (J) QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS.
 - (3) CONTRACTOR SUBMITTALS WHICH DEVIATE FROM THE ABOVE MINIMUM DESIGN PARAMETERS SHALL BE CONSIDERED MATERIAL DEVIATIONS AND REQUIRE SUPPLEMENTAL ENGINEERING APPROVAL AND DOCUMENTATION.
 - (4) IN THE EVENT THE ENGINEER OF RECORD PROVIDES MORE INFORMATION AND DIRECTION THAN IS ESTABLISHED ABOVE, HE OR SHE SHALL BE HELD RESPONSIBLE FOR THE TECHNICAL ACCURACY OF THE WORK IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, AND SOUND ENGINEERING PRINCIPLES.
- SPECIFIC AUTHORITY 471.008, 471.033(2), FS
LAW IMPLEMENTED 471.005(7), 471.033(2), FS
HISTORY-NEW 5-19-93, FORMERLY 21H-32.004, AMENDED 4-2-2000, 6-26-01, 7-12-05

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—————	SPRINKLER BRANCH PIPING
—————	FEED-MAIN PIPING
-----	UNDERGROUND FIRE MAIN PIPING
-----	EXISTING SPRINKLER PIPING
-----	EXISTING SPRINKLER PIPING TO BE REMOVED
⊗	SPRINKLER OR STANDPIPE PIPE RISER LOCATION
⊙	SPRINKLER PIPING UP
⊙	SPRINKLER PIPING DOWN
⊕	VICTAULIC TESTMASTER II #720 TEST AND DRAIN WITH SPLASH BLOCK
○	HYDRAULIC REFERENCE NODE
⊗	REFERENCE NOTE CALLOUT
⊗	POINT OF CONNECTION
⊗	POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY
~	CONTINUATION
⊕	BACKFLOW PREVENTOR
⊕	FIRE HYDRANT
⊕	FREE STANDING POST INDICATOR VALVE W/TAMPER SWITCH
FDC	FIRE DEPARTMENT CONNECTION WITH (2) 2½" HOSE VALVE CONNECTIONS
Z	CHECK VALVE
FDV	STANDPIPE WITH FIRE DEPARTMENT VALVE
◆	DRY-VALVE LOCATION
⊕	CONTROL VALVE W/TAMPER SWITCH
⊕	BUTTERFLY VALVE W/TAMPER SWITCH IN VERTICAL
⊕	BUTTERFLY VALVE W/TAMPER SWITCH
○	FLOW SWITCH
⊕	HOSE-VALVE CABINET
F.C. E	FLUSHING CONNECTION
OH1	ORDINARY HAZARD GROUP 1 OCCUPANCY
OH2	ORDINARY HAZARD GROUP 2 OCCUPANCY

FIRE PROTECTION ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF
BELOW FINISHED GRADE	BFG
BELOW FINISHED FLOOR	BFF
CONTINUATION	CONT
CONNECTION	CONN
DIAMETER	DIA
DOWN	DN
DRAWING	DWG
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
REDUCED PRESSURE BACKFLOW PREVENTOR	RBPB
SQUARE FEET	SF
UNLESS NOTED OTHERWISE	U.N.O.
FLUSHING CONNECTION	F.C.

FIRE SPRINKLER HEAD LEGEND

SYMBOL	THREAD	TEMP	RESPONSE	K-FAC	FINISH	STYLE	MODEL	MFG.	NOTE
●	½"	155°	QUICK	5.6	CHROME PLATED	SEMI-RECESSED PENDENT	VK302	VIKING	1
■	½"	155°	QUICK	5.6	BRASS	UPRIGHT WITH WIRE GUARD	VK300	VIKING	2
○	½"	155°	QUICK	8.0	BRASS	UPRIGHT	VK350	VIKING	3
◀	½"	155°	QUICK	5.6	CHROME PLATED	SEMI-RECESSED SIDEWALL	VK305	VIKING	4

NOTES:

1. PROVIDE IN AREAS THAT ARE CONDITIONED AND HAVE ACOUSTICAL LAY IN CEILINGS OR HARD CEILINGS.
2. PROVIDE IN AREAS THAT ARE CONDITIONED AND CEILINGS ARE NOT PROVIDED. AREAS THAT ARE EXPOSED TO THE STRUCTURE ABOVE.
3. PROVIDE IN BAYS AND MECH SHOP (OH-2)
4. SIDEWALL SPRINKLER WITH F1 ADJUSTABLE ESCUTCHEON.

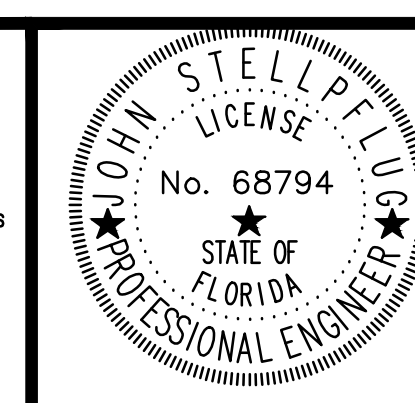
HYDRAULICALLY CALCULATED PIPE CHART FOR BUILDING SYSTEM PIPING (STEEL)

OCCUPANCY TYPE:	LH	OH1	OH2
PIPE SERVING 1 SPRINKLER:	1"	1"	1"
PIPE SERVING 2-3 SPRINKLERS:	1½"	1½"	1½"
PIPE SERVING 4-5 SPRINKLERS:	1½"	1½"	1½"
PIPE SERVING 6-7 SPRINKLERS:	2"	2"	2"
PIPE SERVING 8-10 SPRINKLERS:	2½"	2½"	2½"
ALL CROSS MAIN PIPING (UNLESS OTHERWISE NOTED)	6"	6"	6"

FIRE PROTECTION DATA

ENTIRE BUILDING (EXCEPT AS NOTED ON PLANS)	
OCCUPANCY CLASSIFICATION:	LIGHT HAZARD
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.10 GPM/SQ. FT.
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1½"
DURATION OF SUPPLY:	30 MIN.
MAXIMUM COVERAGE/SPRINKLER HEAD:	225 SQ. FT.
HOSE STREAM ALLOWANCE:	100 GPM
MECHANICAL, STORAGE, ELECTRICAL ROOMS, KITCHENS, OR AS NOTED ON THE PLANS	
OCCUPANCY CLASSIFICATION:	ORDINARY HAZARD GROUP 1 OH1
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.15 GPM/SQ. FT.
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1½"
DURATION OF SUPPLY:	60 - 90 MIN.
MAXIMUM COVERAGE/SPRINKLER HEAD:	130 SQ. FT.
HOSE STREAM ALLOWANCE:	250 GPM
TEXTBOOK STORAGE, LAUNDRY, KILN ROOMS, STAGES, OR AS NOTED ON THE PLANS	
OCCUPANCY CLASSIFICATION:	ORDINARY HAZARD GROUP 2 OH2
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.20 GPM/SQ. FT.
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1½"
DURATION OF SUPPLY:	60 - 90 MIN.
MAXIMUM COVERAGE/SPRINKLER HEAD:	130 SQ. FT.
HOSE STREAM ALLOWANCE:	250 GPM
DESIGN CRITERIA:	
THE FOLLOWING PUBLICATIONS SHALL BE USED AS A REFERENCE FOR DESIGN OF THE FIRE SUPPRESSION SYSTEM ON THIS PROJECT.	
<ol style="list-style-type: none"> 1. NFPA 13 (2016 ED.), INSTALLATION OF SPRINKLER SYSTEMS 2. NFPA 24 (2016 ED.), INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES 3. FLORIDA FIRE PREVENTION CODE 7TH EDITION (2020) 4. FLORIDA BUILDING CODE 7TH EDITION (2020) 	
FLOW TEST:	
CONDUCTED BY: XX	
DATE/TIME: XX	
LOCATION: XX	
STATIC: XX	
RESIDUAL: XX	
FLOW: XX	
WATER SUPPLY NOTES:	
1. THE EXISTING WATER SUPPLY HAS NO REPORTED CASES OF M.I.C. - THE WATER SYSTEM IS TREATED WITH A CORROSION INHIBITOR.	
GENERAL NOTES:	
1. THE FIRE PROTECTION SYSTEMS SHALL COMPLY WITH THE ABOVE REFERENCED NFPA STANDARDS AND ALL STATE AND LOCAL CODES AND REQUIREMENTS.	
2. FINAL SYSTEM ACCEPTANCE AND APPROVAL SHALL BE CONDUCTED BY THE LOCAL AHJ AND THE ARCHITECT/ENGINEER.	
3. CONTRACTOR'S SPRINKLER SYSTEM LAYOUT (SHOP DRAWINGS), HYDRAULIC CALCULATIONS AND MATERIAL DATA SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND THE LOCAL AHJ FOR APPROVAL PRIOR TO SYSTEM INSTALLATION.	
4. THE FIRE PROTECTION SYSTEMS SHOWN REPRESENT THE DESIGN INTENT OF THE ENGINEER OF RECORD. IN ACCORDANCE WITH STATE REGULATION 61G15-32. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES. THE CONTRACTOR SHALL PROVIDE COMPLETE SPRINKLER SYSTEM LAYOUT DRAWINGS WITH ANY ADDITIONAL OFFSETS, SPRINKLERS OR SYSTEM COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM AND TO AVOID CONFLICTS WITH OTHER TRADES.	
5. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND ALL ASSOCIATED DATA.	
6. PROVIDE FIRE STOP ASSEMBLIES FOR ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS AND FLOORS. FIRE STOP ASSEMBLIES SHALL MEET ASTM E-814. SEE ARCHITECTURAL PLANS FOR FIRE RATED PIPE PENETRATION DETAILS.	
7. ALL DRAIN AND DRY PIPE SYSTEM PIPING AND FITTINGS SHALL BE GALVANIZED BOTH INSIDE AND OUTSIDE. NO EXCEPTIONS.	
8. INSTALL ADDITIONAL SPRINKLERS UNDER ALL EXPOSED DUCTWORK OR OBSTRUCTIONS OR COMBINATIONS OF OBSTRUCTIONS EXCEEDING 48" IN WIDTH. PROVIDE ADDITIONAL SPRINKLERS AS REQUIRED FOR PROPER COVERAGE THROUGHOUT IN ACCORDANCE WITH NFPA 13 AND OTHER APPLICABLE STANDARDS.	
9. ALL SPRINKLER HEADS INSTALLED WITHIN MECHANICAL ROOMS, STORAGE ROOMS, JANITORS CLOSETS OR AREAS SUBJECT TO MECHANICAL INJURY SHALL BE PROTECTED WITH LISTED GUARDS.	
10. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS AND BUILDING STRUCTURAL MEMBERS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS. PIPING ROUTED OVER ELECTRICAL PANELS SHALL BE REROUTED AT NO ADDITIONAL COST.	
11. PROVIDE TAMPER SWITCHES ON ALL CONTROL VALVES.	
12. SLOPE ALL PIPING TO THE SYSTEM MAIN DRAIN AS REQUIRED TO INSURE PROPER DRAINAGE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL PIPING IS DRAINABLE. ADDITIONAL DRAINS AND PLUGS SHALL BE INSTALLED WHERE REQUIRED TO COMPLY WITH THE ABOVE REFERENCED CODES.	
13. ALL ROLL GROOVED AND CUT GROOVED COUPLINGS AND FITTINGS SHALL BE PROVIDED BY A SINGLE MANUFACTURER.	
14. SPRINKLERS SHALL BE CENTERED IN CEILING TILES IN AREAS WITH LAY-IN TILES AND VISUALLY ALIGNED IN AREAS WITH SMOOTH CEILINGS.	

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FIRE PROTECTION SYMBOLS LEGEND
F001

ISSUE DATE 07-12-22

JOB #: GC-20-003

GENERAL NOTES:

- a. PROVIDE A COMPLETE WATER-BASED FIRE SUPPRESSION SYSTEM IN THE BUILDING. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 - 2016, THE FLORIDA BUILDING CODE 7TH EDITION (2020), AND THE FLORIDA FIRE PREVENTION CODE.
- b. PROVIDE A COMPLETE SYSTEM PER THE DRAWING NOTES AND THE SPECIFICATION. REFER TO DRAWING FOR AREA HAZARD CLASSIFICATION. ALL BAYS ARE ORDINARY HAZARD GROUP 2.
- c. COORDINATE SPRINKLER LOCATIONS WITH LIGHTS, CEILING GRID, AND ALL CEILING MOUNTED DEVICES.
- d. CENTER ALL SPRINKLERS IN TILES.

NOTE:
 PROVIDE HEAT TRACING ON ALL FIRE PROTECTION PIPING WITHIN THE UNCONDITIONED SPACE. PROVIDE CHROMCLOX #CPR 3 CAPABLE OF 3 W/FT. APPROXIMATELY 800 LINEAR FEET OF PIPING TO TOTAL 2400 WATTS.

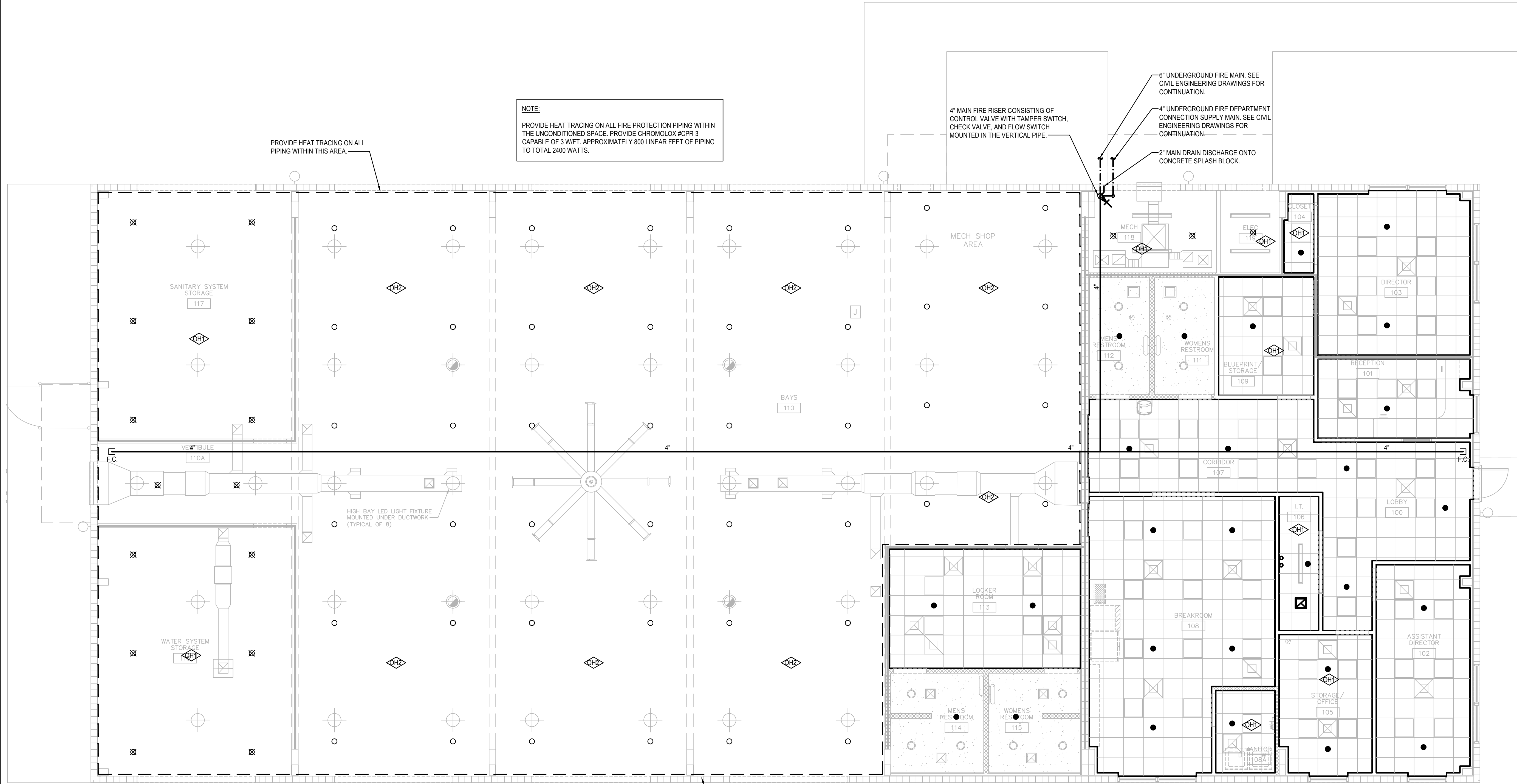
PROVIDE HEAT TRACING ON ALL PIPING WITHIN THIS AREA.

4" MAIN FIRE RISER CONSISTING OF CONTROL VALVE WITH TAMPER SWITCH, CHECK VALVE, AND FLOW SWITCH MOUNTED IN THE VERTICAL PIPE.

6" UNDERGROUND FIRE MAIN. SEE CIVIL ENGINEERING DRAWINGS FOR CONTINUATION.

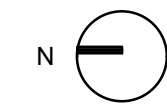
4" UNDERGROUND FIRE DEPARTMENT CONNECTION SUPPLY MAIN. SEE CIVIL ENGINEERING DRAWINGS FOR CONTINUATION.

2" MAIN DRAIN DISCHARGE ONTO CONCRETE SPLASH BLOCK.



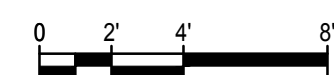
HIGH BAY LED LIGHT FIXTURE MOUNTED UNDER DUCTWORK—(TYPICAL OF 8)

PROVIDE HEAT TRACING ON ALL PIPING WITHIN THIS AREA.

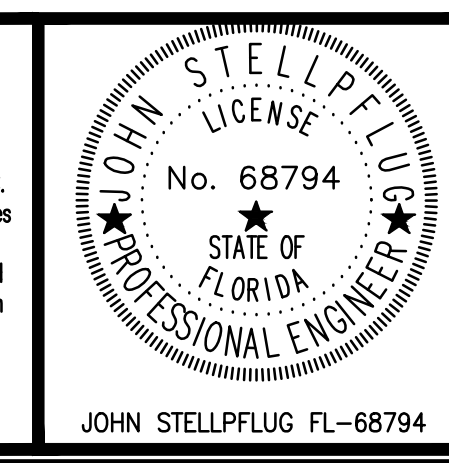


FIRE PROTECTION FLOOR PLAN

SCALE: 3/16"=1'-0"



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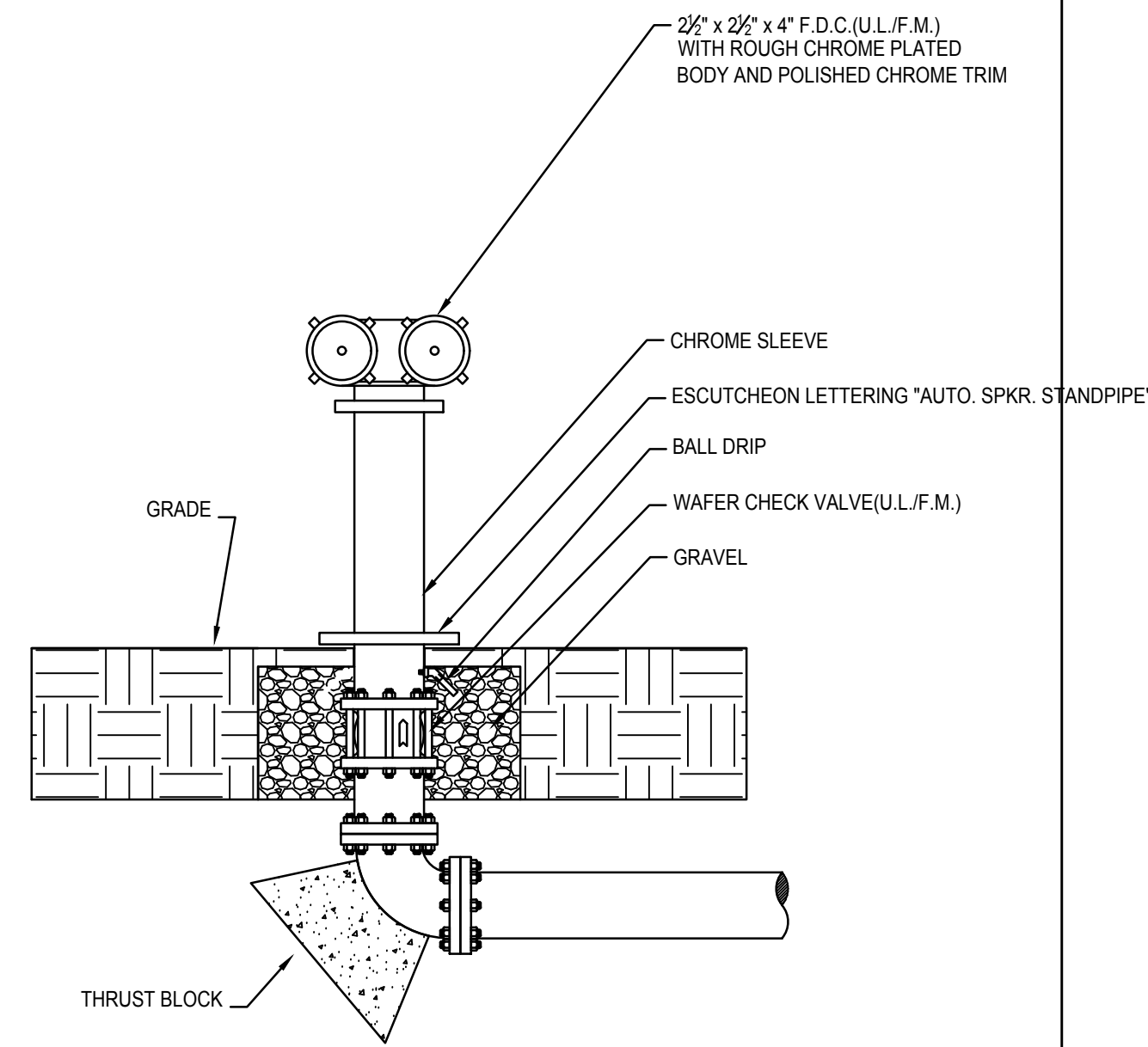
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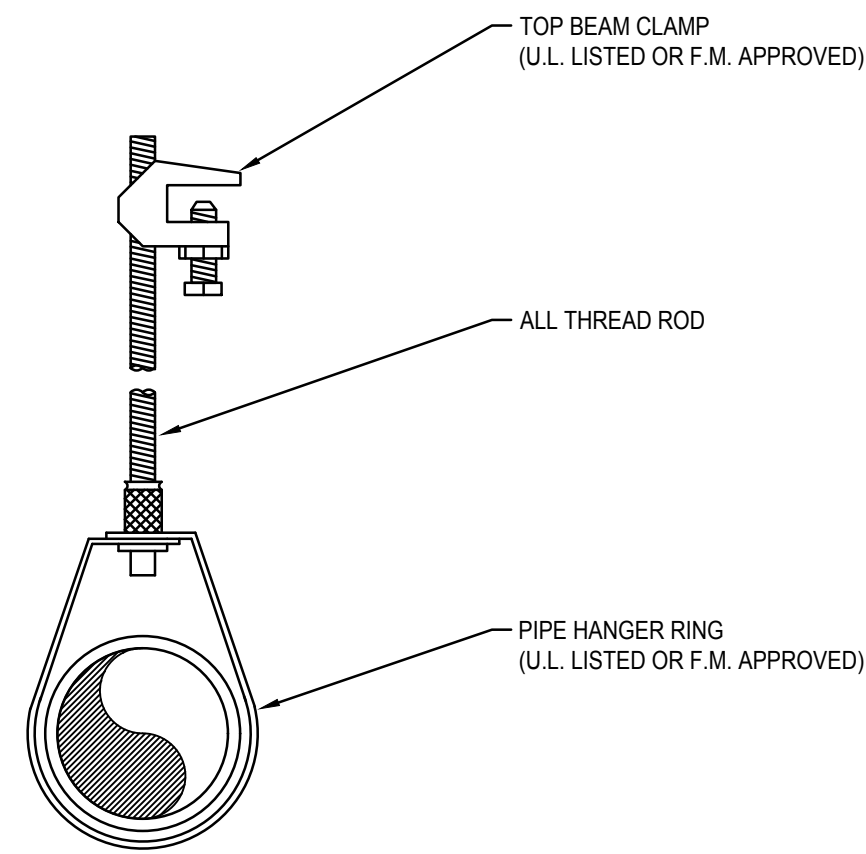
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FIRE PROTECTION FLOOR PLAN
F201
 ISSUE DATE 07-12-22

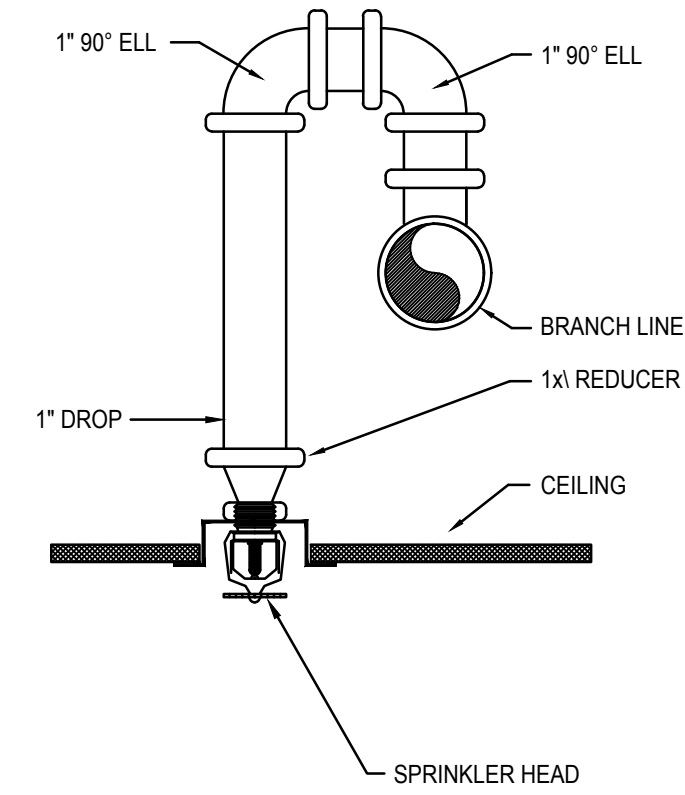
JOB #: GC-20-033



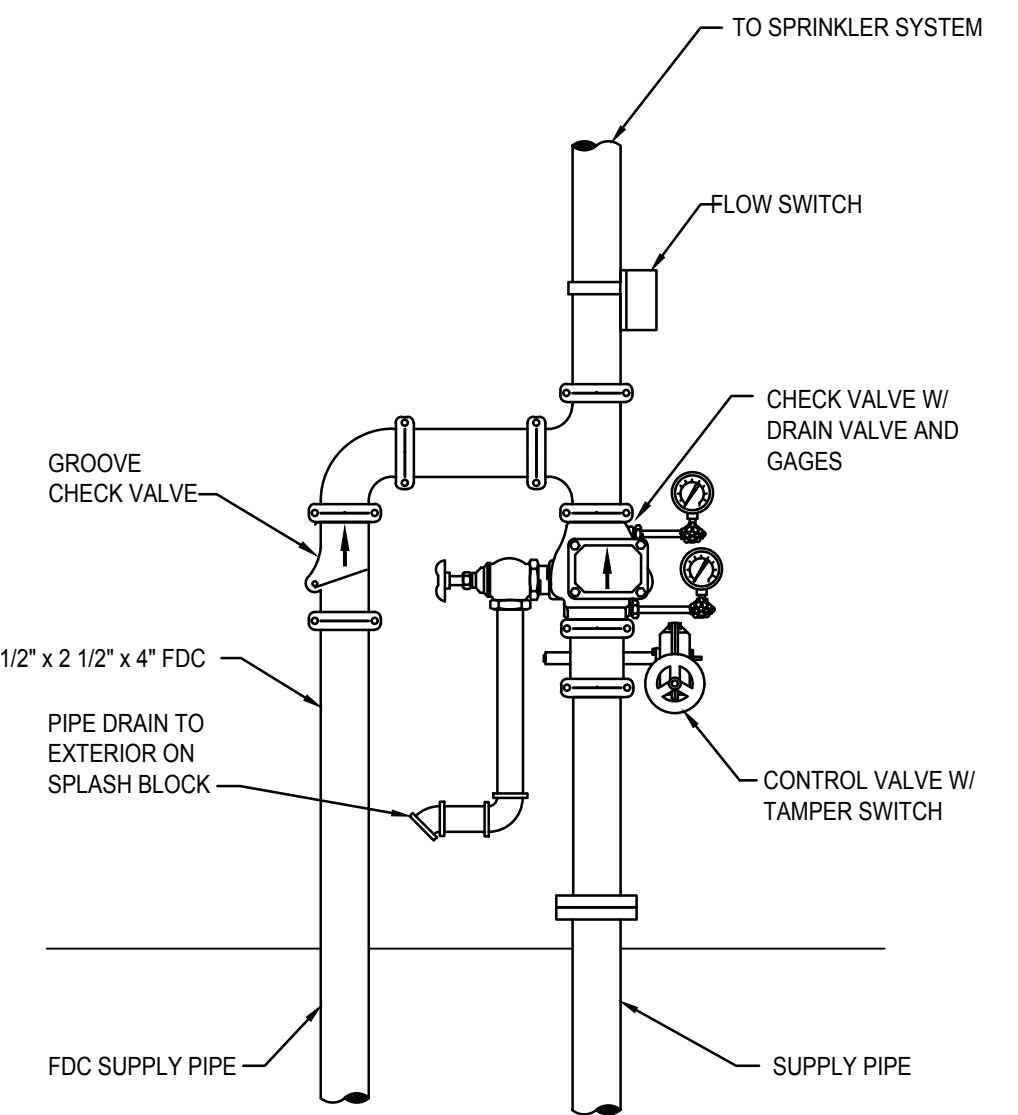
FREESTANDING FIRE DEPARTMENT CONNECTION
No Scale



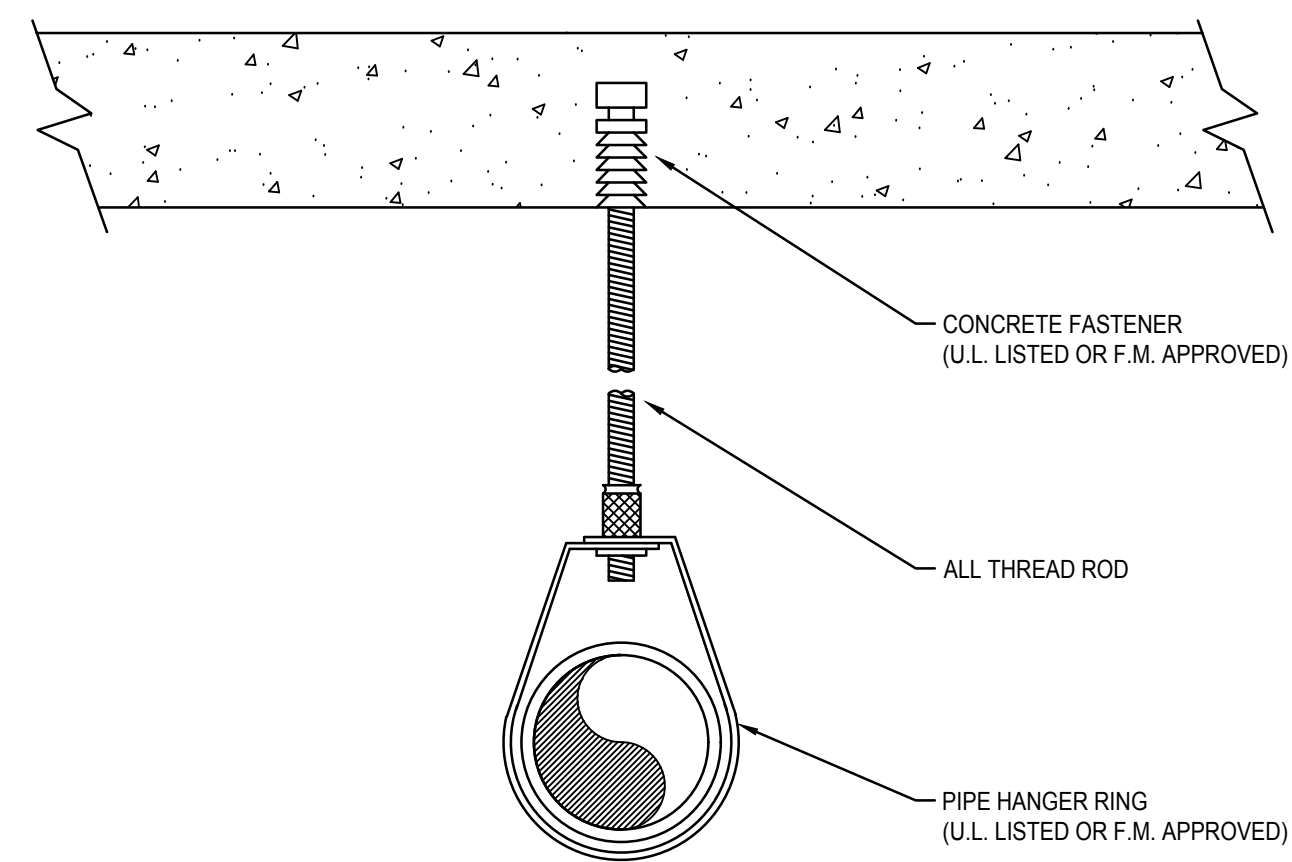
HANGER - STEEL
No Scale



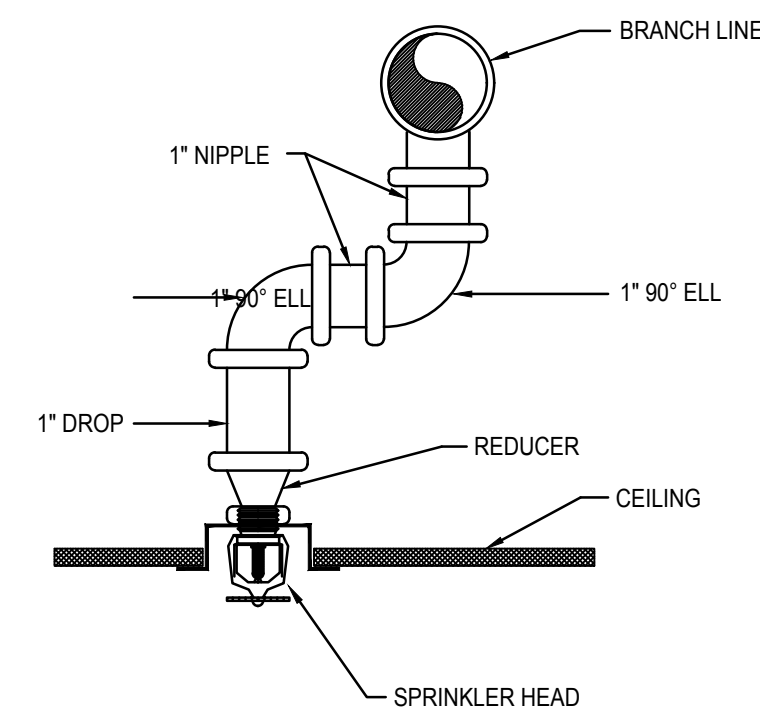
RETURN BEND
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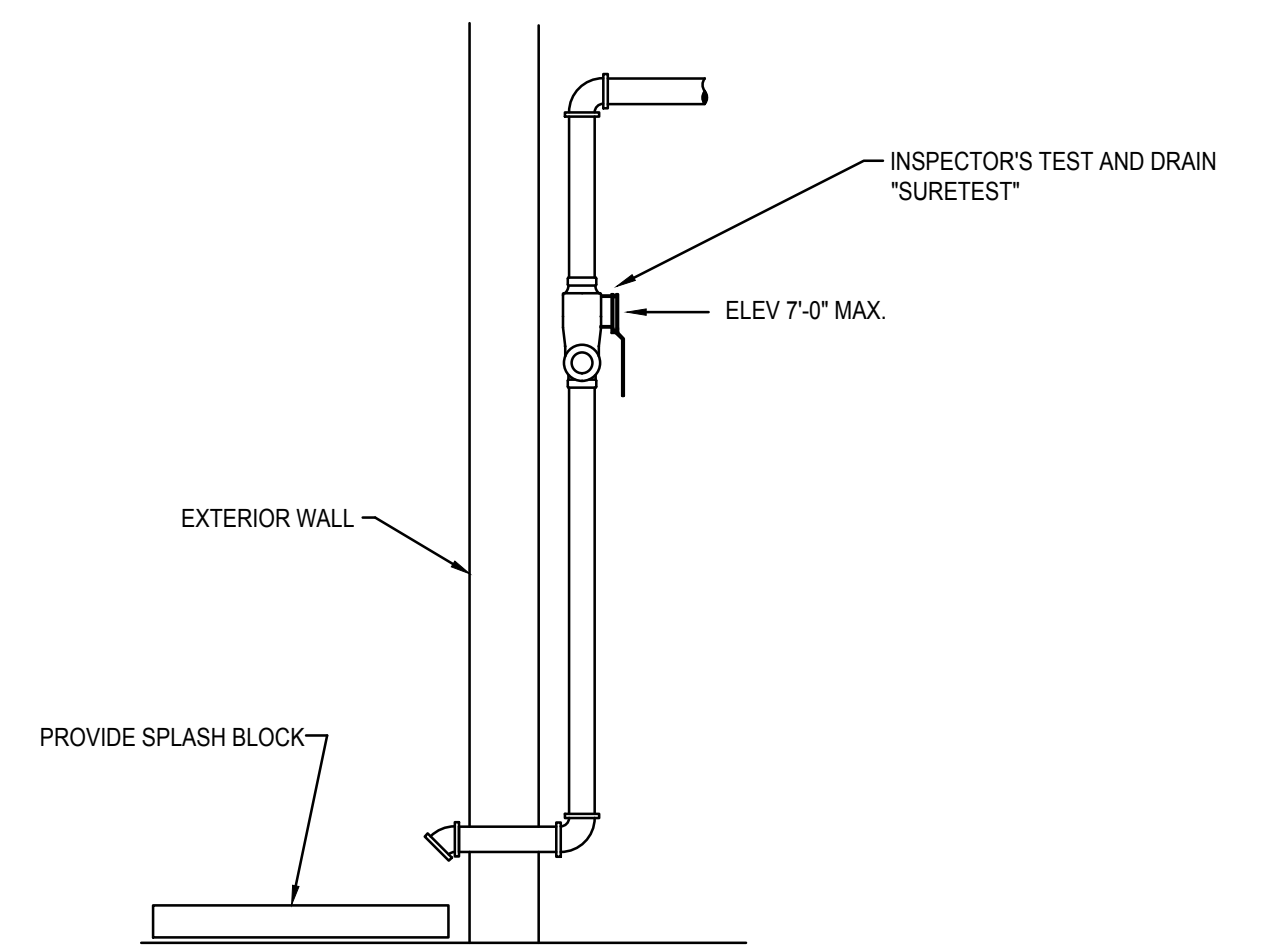
SPRINKLER RISER - WET PIPE SYSTEM
No Scale



HANGER - CONCRETE
No Scale



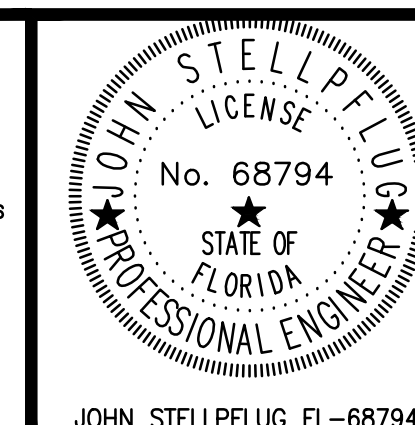
SWING JOINT
No Scale



INSPECTOR'S TEST - WET PIPE SYSTEM
No Scale

FIRE PROTECTION DETAILS

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FIRE PROTECTION
DETAILS

F801

ISSUE DATE 07-12-22

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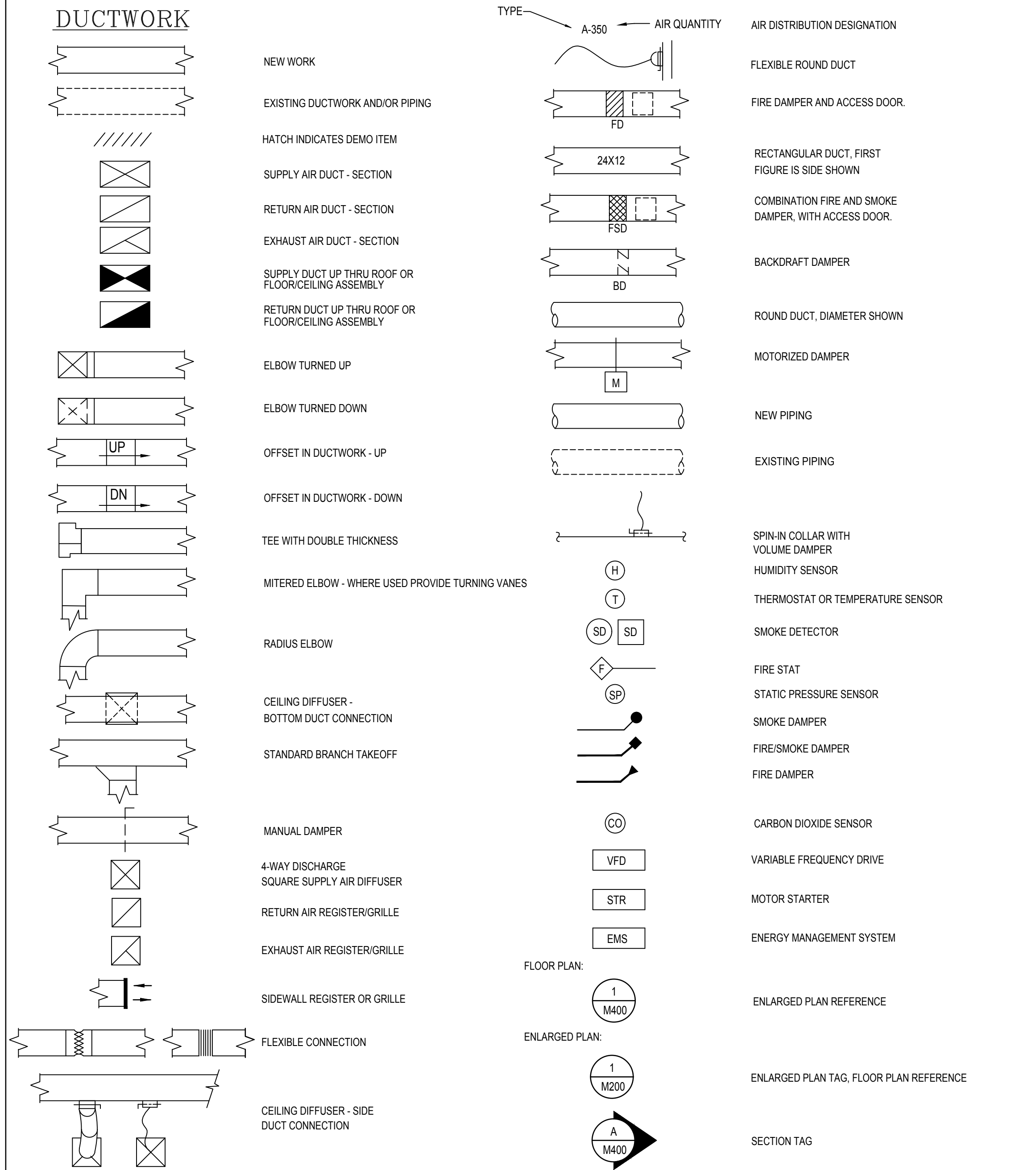
C

B

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JOB # GC-20-033

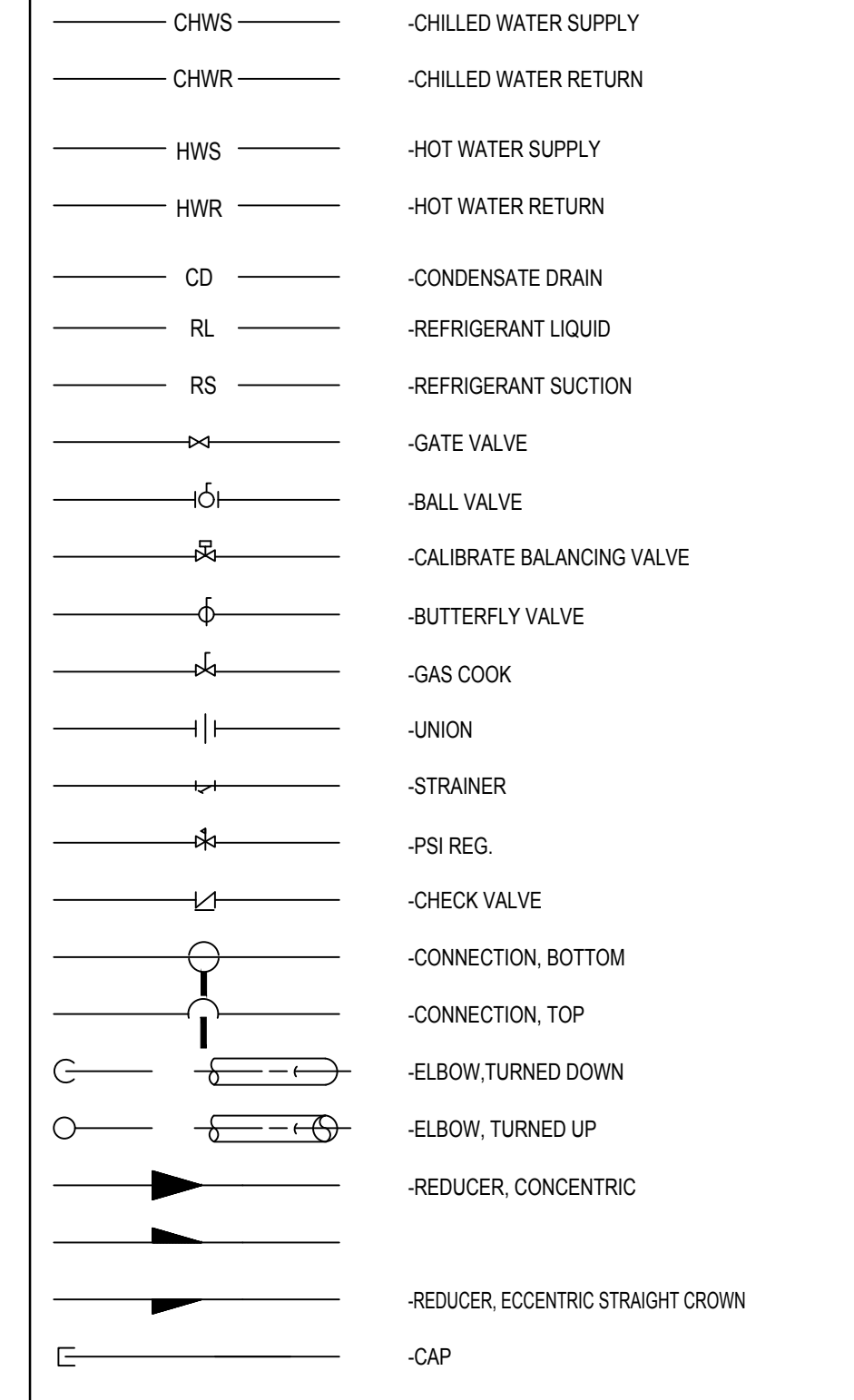
MECHANICAL SYMBOLS LEGEND



MECHANICAL ABBREVIATIONS

A	AIR	HR	HR	HR	HOUR
AAV	AUTOMATIC AIR VENT	HYAC	HEATING VENTILATING AND AIR CONDITIONING	HZ	HERTZ (CYCLES PER SECOND)
AC	AIR CONDITIONING	ID	INSIDE DIAMETER	IN	INCH
ACU	AIR CONDITIONING UNIT	KW	KILOWATT	LDB	LEAVING DRY BULB
AD	ACCESS DOOR, AIR DRYER	LWB	LEAVING WET BULB	LOR	LIMIT OF REMOVAL
AF	ABOVE FINISHED FLOOR	MAX	MAXIMUM	MB	MAXIMUM
AFG	ABOVE FINISHED GRADE	MB	THOUSAND BTU PER HOUR	MD	MANUAL DAMPER
AHU	AIR HANDLING UNIT	MIN	MINIMUM	N	NORTH
ALUM	ALUMINUM	NA	NOT APPLICABLE	NO OR #	NO OR #
AP	ACCESS PANEL	NTS	NOT TO SCALE	OA	OUTSIDE AIR
APD	AIR PRESSURE DROP	OB	OPPOSED BLADE DAMPER	OD	OUTSIDE DIAMETER
ATC	AUTOMATIC TEMPERATURE CONTROL	OPER	OPERATING	PG	PRESSURE GAUGE
AV	AIR VENT	PSI	POUNDS PER SQUARE INCH	PSIG	POUNDS PER SQUARE INCH GAUGE
BOD	BACK DRAFT DAMPER	RA	RETURN AIR REGISTER	RF	RETURN FAN
BOT	BOTTOM	RG	RETURN GRILLE	RH	RELATIVE HUMIDITY
BFP	BACKFLOW PREVENTER	RHC	REHEAT COIL	RM	ROOM
BTU	BRITISH THERMAL UNIT	SA	SUPPLY AIR SUPPLY FAN	SF	SMOKE/FIRE DAMPER
BV	BALL VALVE	SFD	SMOKE/FIRE DAMPER	T	THERMOSTAT
C	CELSIUS, DEGREE CELSIUS	TEC	TERMINAL EQUIPMENT CONTROLLER	TEMP	TEMPERATURE
CENT	CENTRIFUGAL	TS	TEMPERATURE SENSOR	TYP	TYPICAL
CFM	CUBIC FEET PER MINUTE	V	VENT, VOLT	VD	VOLUME DAMPER
CHWS&R	CHILLED WATER SUPPLY & RETURN	VERT	VERTICAL	WB	WET BULB
CLG	CEILING	WPD	WATER PRESSURE DROP	WMS	WIRE MESH SCREEN
CO	CLEAN OUT	1WB	ONE WAY BLOW	2WB	TWO WAY BLOW
COND	CONDENSATE	3WB	THREE WAY BLOW		
DB	DRY BULB, DOWN BLOW				
DCW	DOMESTIC COLD WATER				
DEG	DEGREE				
DELIV	DELIVERY				
DHW	DOMESTIC HOT WATER				
DISC	DISCONNECT				
DN	DOWN				
DPS	DIFFERENTIAL PRESSURE SWITCH				
EA	EXHAUST AIR, EACH				
EAT	ENTERING AIR TEMPERATURE				
EDB	ENTERING DRY BULB				
EF	EXHAUST FAN				
EFF	EFFICIENCY				
ELEV	ELEVATION				
EMS	ENERGY MANAGEMENT SYSTEM				
ENT	ENTERING				
ERG	EXISTING RETURN GRILLE				
EWB	ENTERING WET BULB				
F	FAHRENHEIT				
FD	FIRE DAMPER, FLOOR DRAIN				
FPM	FEET PER MINUTE				
FPS	FEET PER SECOND				
FSD	FIRE/SMOKE DAMPER				
FT	FEET				
GPH	GALLONS PER HOUR				
GPM	GALLONS PER MINUTE				
HHWS&R	HEATING HOT WATER SUPPLY&RETURN				
HOA	HAND-OFF-AUTOMATIC				
HP	HORSEPOWER, HEAT PUMP				

MECHANICAL LEGEND



MECHANICAL SCOPE OF WORK:

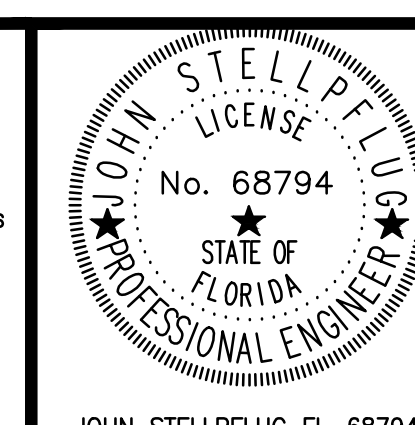
- BUILDING IS NEW CONSTRUCTION. PROVIDE:
 - (2) SPLIT SYSTEMS TO CONDITION OFFICE SPACE
 - (1) DOAS TO PRE-CONDITION OUTSIDE
 - (2) RESTROOM EXHAUST FANS
 - (1) LOCKER EXHAUST FAN
 - (2) BAY EXHAUST FANS
 - (1) FLAMMABLE STORAGE FAN FOR EQUIPMENT STORAGE
- CONTROLS SHALL INTERFACE WITH CITY BUILDING AUTOMATION SYSTEM

PROJECT DESIGN CONDITIONS

TEMPERATURE CONDITIONS				
OUTDOOR				
	DRY BULB (F)	WET BULB	COMMENTS	
SUMMER	93.6	76.3	(4% MEAN COINCIDED DB/WB)	
WINTER	36.5	X	(99.6% DB)	
DAILY RANGE	16.6	X		
LOCATION BASED ON ASHRAE WEATHER DATA FOR ORLANDO FLORIDA				
INDOOR				
	DRY BULB (F)	RH%	COMMENTS	
OCCUPIED COOLING	75	50-55	PLUS OR MINUS 2 DEGREES	
OCCUPIED HEATING	68	X	PLUS OR MINUS 2 DEGREES	
UNOCCUPIED COOLING	85	60-65		
UNOCCUPIED HEATING	60	X		

VENTILATION IS BASED ON OCCUPANCY PER ASHRAE 62.1-2019
 ENVELOPE AND EQUIPMENT EFFICIENCIES ARE BASED ON ASHRAE 90.1-2019 AND THE FLORIDA BUILDING CODE 2020
 THIS PROJECT IS DESIGNED UNDER THE 2020 FLORIDA BUILDING CODE AND THE 2020 FLORIDA FIRE PREVENTION CODE

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MECHANICAL SYMBOLS LEGEND
M001
 ISSUE DATE 07-12-22

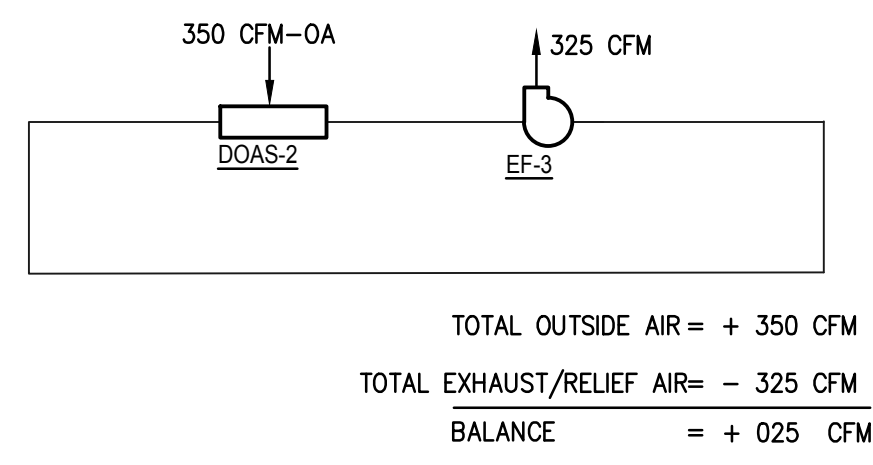
GENERAL NOTES:

A. SEE SHEET M002 FOR GENERAL NOTES.

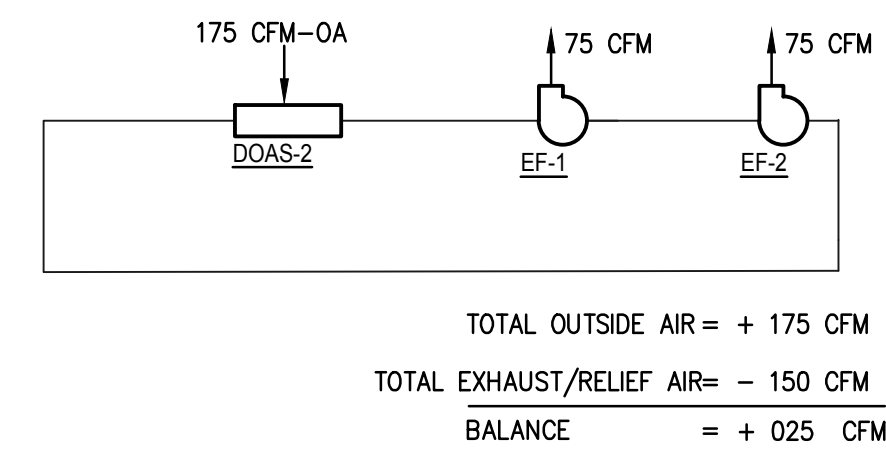
PLAN KEY NOTES:

1. PROVIDE INDOOR AIR HANDLING UNIT. ROUTE 1 1/4" CONDENSATE DRAIN TO CONDENSATE RECEPTOR IN MECHANICAL ROOM.
2. PROVIDE INDOOR DEDICATED OUTSIDE UNIT. ROUTE 1 1/4" CONDENSATE DRAIN TO CONDENSATE RECEPTOR IN MECHANICAL ROOM.
3. PROVIDE CONDENSING UNIT. MOUNT ON 6" HOUSEKEEPING PAD.
4. PROVIDE NEW CEILING MOUNTED EXHAUST FAN. ROUTE 6Ø EXHAUST DUCTWORK UP TO ROOF. DISCHARGE TO ROOF JACK.
5. PROVIDE NEW INLINE EXHAUST FAN. MOUNT ABOVE CEILING. PROVIDE WITH LOW LEAK BACKDRAFT DAMPER.
6. PROVIDE NEW INLINE EXHAUST FAN. MOUNT TIGHT TO STRUCTURE. PROVIDE WITH LOW LEAK BACKDRAFT DAMPER.
7. PROVIDE INTAKE LOUVER. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS AND STRUCTURAL DRAWINGS.
8. PROVIDE EXHAUST LOUVER. COORDINATE LOCATION WITH ARCHITECTURAL

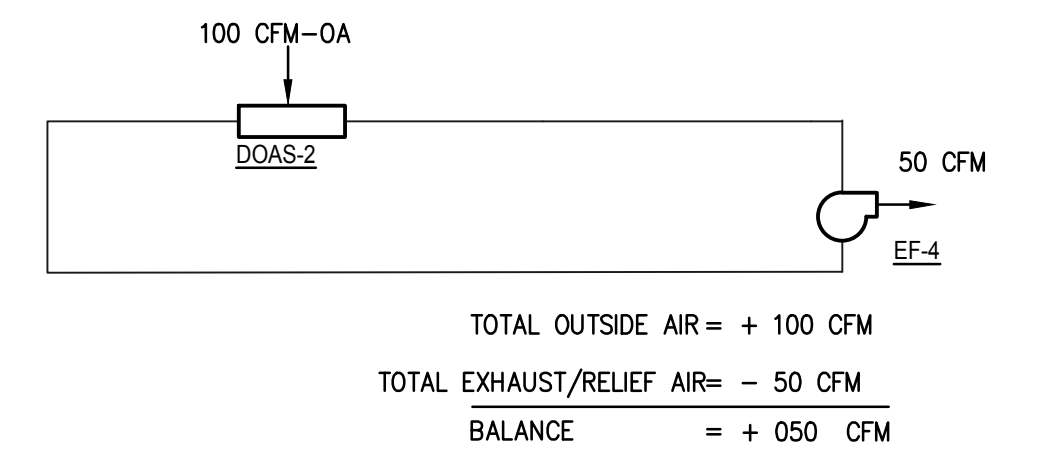
9. ELEVATIONS AND STRUCTURAL DRAWINGS. MOUNT HIGH AND LOW EXHAUST GRILLE. LOW GRILLE SHALL BE 0'-6" AFF. HIGH GRILLE SHALL BE 10'-0" AFF.
10. PROVIDE GRAVITY RELIEF VENTILATOR ON ROOF WITH ROOF CURB. DISCHARGE SHALL BE 6'-0" ABOVE ROOF.



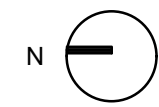
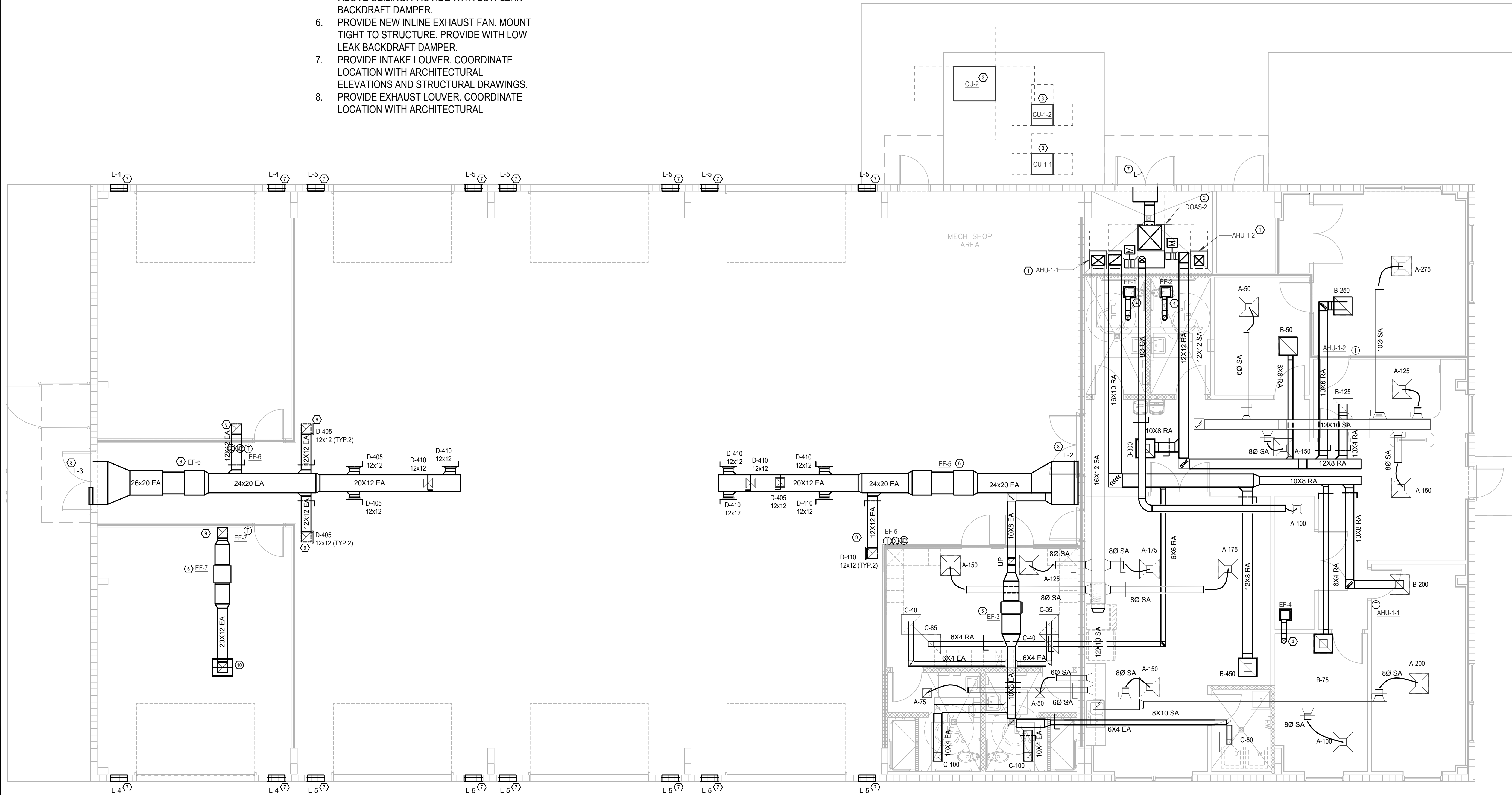
AHU-1-1 AIR BALANCE DIAGRAM



AHU-1-2 AIR BALANCE DIAGRAM



DOAS-2 AIR BALANCE DIAGRAM

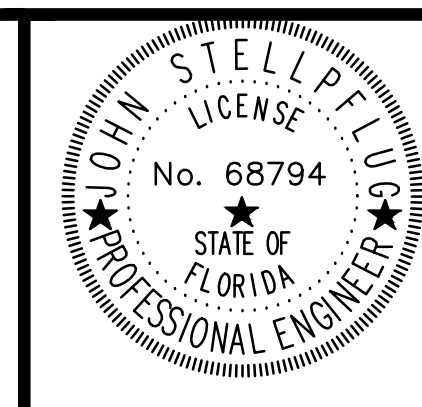


MECHANICAL FLOOR PLAN

SCALE: 3/16"=1'-0"



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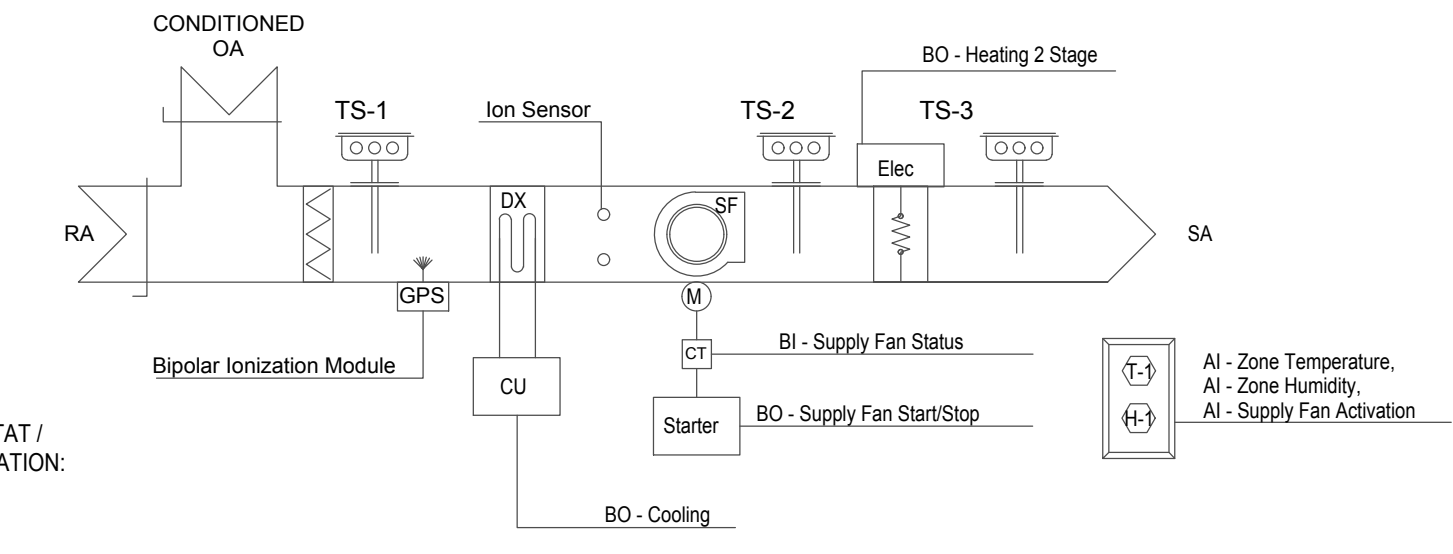
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MECHANICAL FLOOR PLAN
M201
ISSUE DATE 07-12-22

JOB #: GC-20-033

SINGLE ZONE CONSTANT VOLUME AHU CONTROL POINT LIST											
POINT NAME		HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC	REMARKS
		ANALOG		DIGITAL		ADJUSTABLE VALUE	SCHEDULE	TREND	ALARM		
TAG	DESCRIPTION	INPUT	OUTPUT	INPUT	OUTPUT						
TS-1	MIXED AIR TEMPERATURE	X						X		X	
TS-2	COOLING COIL DISCHARGE AIR TEMPERATURE	X						X		X	
TS-3	SUPPLY AIR TEMPERATURE	X						X		X	
T-1	SPACE TEMPERATURE SENSOR	X				X	X	X	X	X	
H-1	SPACE HUMIDITY SENSOR	X						X	X	X	
CS-1	SUPPLY FAN STATUS			X				X	X	X	
DA-1	OA DAMPER FEEDBACK	X						X	X	X	
DA-1	OUTSIDE AIR DAMPER		X			X	X	X		X	
VFD-1	SUPPLY FAN START/STOP				X			X		X	
DPS-1	HIGH STATIC CUT OFF SWITCH			X					X	X	
BPI-1	BI-POLAR IONIZATION BAR				X				X	X	
IS-1	SUPPLY ION SENSOR	X						X		X	
REMARKS: 1. SET SENSITIVITY TO 200k IONS/CCM											



SINGLE ZONE CV AIR HANDLING SYSTEM SEQUENCE OF OPERATION:
 THE SZ CV AIR HANDLING UNIT SHALL HAVE A COMBINATION THERMOSTAT / CONTROLLER THAT SHALL MEET THE FOLLOWING SEQUENCE OF OPERATION:

SUPPLY FAN:
 THE SUPPLY FAN SHALL RUN TO MAINTAIN SPACE TEMPERATURE. BI-POLAR IONIZATION SHALL BE ACTIVE DURING FAN OPERATION.

COOLING MODE:
 COMPRESSOR IN CONDENSING UNIT SHALL BE ACTIVATED TO MAINTAIN COOLING SPACE TEMPERATURE SETPOINTS.
 OCCUPIED HOURS: 75°F
 UNOCCUPIED HOURS: 80°F

HEATING MODE:
 WHEN SUPPLY AIR TEMPERATURE DROPS BELOW HEATING SETPOINTS, THE HEAT PUMP SHALL STAGE TO MAINTAIN SPACE HEATING TEMPERATURE SETPOINT.

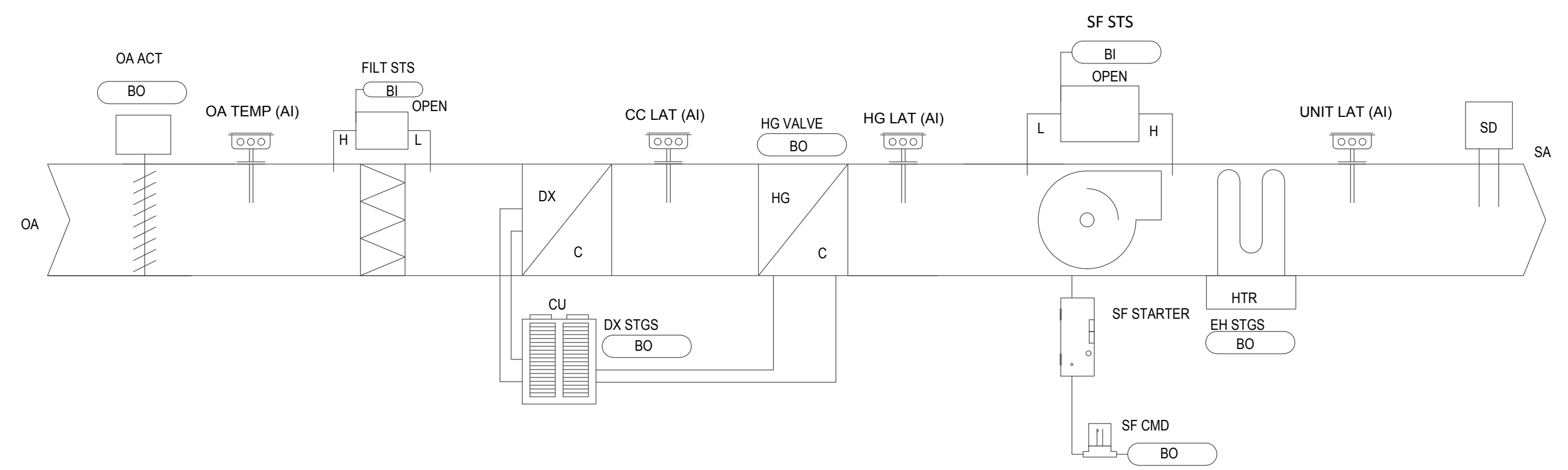
BMS MONITORING:
 THE BMS SHALL BE CAPABLE OF MONITORING AND ADJUSTING SPACE TEMPERATURE. THERMOSTAT SHALL HAVE +/- 3°F ADJUSTABILITY

OCCUPIED HUMIDITY RESET: WHEN ROOM HUMIDITY SENSOR RISE ABOVE 60% RH (ADJ) FOR 30 MINUTES (ADJ), OPERATE COMPRESSOR CONTINUOUSLY AND STAGE/MODULATE HEATING COIL TO MAINTAIN SPACE COOLING TEMPERATURE. AFTER 1 HOUR (ADJ) OR ONCE THE RH DROPS AT THE SPACE RH SENSOR TO BELOW 55% RH, RETURN THE AHU TO NORMAL OPERATION.

OA CONTROL: DOAS-3 SHALL SUPPLY CONSTANT VOLUME OF OA DURING OCCUPIED OPERATION.

AHU-1/2/CU-1/2 CONTROLS
 NOT TO SCALE

DOAS CONTROL POINT LIST											
POINT NAME		HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC	REMARKS
		ANALOG		DIGITAL		ADJUSTABLE VALUE	SCHEDULE	TREND	ALARM		
TAG	DESCRIPTION	INPUT	OUTPUT	INPUT	OUTPUT						
TS-1	OUTSIDE AIR TEMPERATURE	X						X		X	
TS-2	COOLING COIL DISCHARGE AIR TEMPERATURE	X						X		X	
TS-3	SUPPLY AIR TEMPERATURE	X						X		X	
CS-1	SUPPLY FAN STATUS			X				X	X	X	
DA-1	OA DAMPER FEEDBACK	X						X	X	X	
DA-1	OUTSIDE AIR DAMPER		X			X	X	X		X	
VFD-1	SUPPLY FAN SPEED		X					X		X	
VFD-1	SUPPLY FAN START/STOP				X			X		X	
AMS-1	OUTSIDE AIR-FLOW/STATION	X				X	X	X		X	
FILTER STS	FILTER STATUS			X					X	X	
DPS-1	HIGH STATIC CUT OFF SWITCH			X					X	X	
REMARKS:											



DEDICATED OUTSIDE AIR UNIT SEQUENCE OF OPERATIONS: (STAND ALONE CONTROLS)

THE UNIT SHALL BE CONTROLLED THROUGH ITS OWN DEDICATED CONTROL.

PANEL TO MAINTAIN SPACE AIR AND HUMIDITY SETPOINTS:
 OCCUPIED MODE: THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN CONSTANT VENTILATION REQUIREMENTS. THE HEAT PUMP SHALL STAGE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT OF 55°F (ADJ.).

UNOCCUPIED MODE: UNIT SHALL BE OFF AND OA DAMPER SHALL CLOSE.
OCCUPIED MODE HUMIDITY CONTROL: IF THE SPACE AIR RELATIVE HUMIDITY IS GREATER THAN 50% (ADJ.), THE CONTROLLER SHALL OVERRIDE THE COOLING SEQUENCE TO MAINTAIN SPACE AIR HUMIDITY SETPOINT. MODE SHALL TERMINATE WHEN THE SPACE RELATIVE HUMIDITY FALLS BELOW THE RELATIVE HUMIDITY SETPOINT OF 50% (ADJ.) MINUS 3% (ADJ.). DURING DEHUMIDIFICATION MODE, THE SUPPLY FAN STATUS SHALL BE ON, COOLING COIL LEAVING TEMPERATURE SHALL BE 2°F LOWER, AND THE HOT GAS VALVE SHALL OPEN TO MAINTAIN THE SUPPLY AIR TEMPERATURE OF 55°F (ADJ.).

SMOKE DETECTOR SHUTDOWN (BY FIRE ALARM CONTRACTOR): THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTOR SHALL BE UNLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT.

DOAS-3/CU-3 CONTROL DIAGRAM
 NTS

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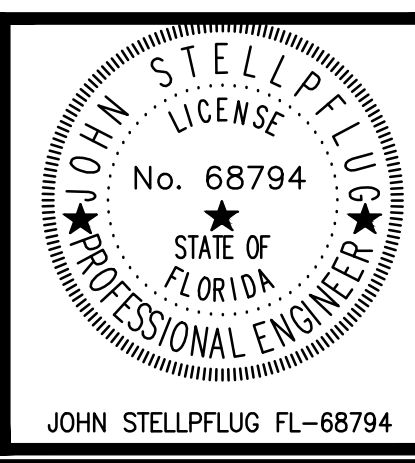
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MECHANICAL CONTROL DRAWINGS
 M601
 ISSUE DATE 07-12-22

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FAN SCHEDULE																	
MARK	SYSTEM TYPE	SOUND DATA (SONES)	CFM	ESP (IN.WG.)	DRIVE	FAN RPM	MOTOR			ELECTRICAL		MOUNTING	WEIGHT (LBS)	CONTROLS	MANUFACTURER	MODEL	NOTES
							HP	BHP	RPM	VOLTAGE	PHASE						
BF-1	MEN RR SINGLE	0.5	75	0.375	DIRECT	861	8 (WATTS)	--	940	115	1	CEILING CABINET	15	INTERLOCK W/ LIGHT SWITCH	GREENHECK	SP-110-VG	1,2,3,4,5,6,8
BF-2	WOMEN RR SINGLE	0.5	75	0.375	DIRECT	861	8 (WATTS)	--	940	115	1	CEILING CABINET	15	INTERLOCK W/ LIGHT SWITCH	GREENHECK	SP-110-VG	1,2,3,4,5,6,8
BF-3	LOCKERS AND SHOWER	2.6	325	0.75	DIRECT	855	318 (WATTS)	0.14	895	115	1	INLINE	60	INTERLOCK W/ AHU-1-1	GREENHECK	CSP-A900	1,2,4,6,8
BF-4	IT	0.5	50	0.375	DIRECT	861	8 (WATTS)	--	940	115	1	CEILING CABINET	15	INTERLOCK W/ THERMOSTAT	GREENHECK	SP-110-VG	1,2,3,4,5,6,8
BF-5	BAYS - SOUTH	10.6	3275	0.5	DIRECT	922	1.00	0.44	1130	115	1	INLINE	120	SENSORS	GREENHECK	SQ-18-07-0700-VG	1,2,3,4,6,8,9
BF-6	BAYS - NORTH	11.7	3975	0.5	DIRECT	1032	1.00	0.57	1130	115	1	INLINE	120	SENSORS	GREENHECK	SQ-18-07-0700-VG	1,2,3,4,6,8,9
BF-7	EOP STOR / FLAMMABLE STOR	6.5	725	0.5	DIRECT	1140	0.33	0.18	1140	115	1	INLINE	90	24/7	GREENHECK	SQ-130-B	1,4,6,7,8,9

NOTES:
1. PROVIDE WITH DISCONNECT
2. PROVIDE WITH BACKDRAFT DAMPER
3. PROVIDE 5 MINUTE TIME DELAY SWITCH
4. PROVIDE HANGING NEOPRENE ISOLATORS
5. PROVIDE WITH INTEGRAL GRILLE
6. PROVIDE WITH SPEED CONTROL
7. PROVIDE WITH EXPLOSION PROOF MOTOR & SPARK RESISTANCE CONSTRUCTION
8. SIZE MOTORS SO THAT BHP DOES NOT EXCEED 85% OF RATED POWER
9. PROVIDE WITH EPOXY COATING

SPLIT SYSTEM SCHEDULE																														
MARK	AREA SERVED	MANUFACTURER	COOLING		EFFICIENCY	AIR HANDLER										CONDENSING UNIT							REMARKS							
			TOTAL (BTU/HR)	SENSIBLE (BTU/HR)		SEER	MODEL#	SUPPLY (CFM)	OUTSIDE AIR (CFM)	ESP (IN.WG.)	HP	COIL EAT (°F)		COIL LAT (°F)		HEATER (KW)	ELECTRICAL				WEIGHT (LBS)	MODEL #		REFRIGERANT	COMPRESSOR		ELECTRICAL			
AHU-1-1/CU-1-1	WEST OFFICE	DAIKIN	30,250	21,328	14.0	ASPT37C14	1200	350	1	3/4	70.71	61.77	54.25	53.1	15.0	208	1	71	80.0	116	DX13SA0361	R410A	1	SCROLL	208	3	19	30	118	1 THRU 5
AHU-1-2/CU-1-2	EAST OFFICE	DAIKIN	21,350	16,120	14.0	ASPT25B14	1000	275	1	3/4	69.43	61.17	54.5	53.7	10.0	208	1	49	50.0	144	DXDSA0291A	R410A	1	SCROLL	208	3	17.6	30	115	1 THRU 5
DOAS-2/CU-2	OUTSIDE AIR	COMPUAIRE	48,235	25,997		CKA-432	625	625	0.5	2.48 KW	93.6	76.3	53.6	53.5	4.0	208	3	39	60.0	600	ACC-532	R410A	1	DIGITAL SCROLL	208	3	3	15	400	1 THRU 7

NOTES:
1. PROVIDE CONDENSATE OVERFLOW SWITCH IN ACCORDANCE WITH FMC-2020 SECTION 307.2.3
2. REFRIGERANT LINES AND INSULATION SHALL BE SIZED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUBMITTALS ON INSULATION WITH EQUIPMENT SUBMITTALS.
3. UNIT SHALL CONTACT TO FACILITY WIDE ENERGY MANAGEMENT SYSTEM
4. PROVIDE 5 MINUTE TIME DELAY TO PREVENT COMPRESSOR SHORT CYCLING. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE HOT GAS REHEAT
6. OUTSIDE AIR DAMPER SHALL BE INTERLOCKED WITH COMPRESSOR. DAMPER SHALL OPEN/CLOSE UPON ACTIVATION OF COMPRESSOR
7. PROVIDE DIGITAL SCROLL COMPRESSOR

DIFFUSER, REGISTER, & GRILLE SCHEDULE						
MARK	MANUFACTURER	MODEL	DESCRIPTION	AIRFLOW (CFM)	FACE SIZE	NECK VELOCITY (FPM)
A	TITUS	TMS-AA	LOUVERED FACE CEILING SUPPLY	0 - 120	24x24	6"Ø
				125 - 210		8"Ø
				215 - 385		10"Ø
				390 - 550		12"Ø
				555 - 750		14"Ø
B	TITUS	PAR-AA	PERFORATED CEILING RETURN REGISTER	0 - 110	12X12	6"Ø
				115 - 200	8"Ø	
C	TITUS	50 F	ESGRATE CEILING EXHAUST REGISTER	0 - 330	12X12	10X10
				0 - 850	24X24	22X22
D	TITUS	350 FL	SIDEWALL FIXED BLADE EXHAUST REGISTER	0 - 330	12X12	10X10
				0 - 850	24X24	22X22

NOTES:
1. MAXIMUM NOISE LEVEL OF 25.
2. ALL AIR DEVICES SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE OR SHOWN ON PLANS WITH DIRECTIONAL ARROWS.
3. DEVICES SHALL BE PROVIDED WITH FACTORY FINISH TO MATCH CEILING OR WALL. MECHANICAL CONTRACTOR SHALL COORDINATE SPECIFIC LOCATIONS AND APPROPRIATE BORDER TYPES AND WITH ARCHITECTURAL DRAWINGS.
4. PROVIDE VOLUME DAMPER FOR DIFFUSERS LOCATED AT GYPSUM BOARD CEILING AND FOR ALL REGISTERS.
5. PROVIDE SQUARE TO ROUND THROAT ADAPTERS - ROUND RUNOUT SIZE SAME AS THROAT (I.E. 8X8 USE 8"Ø) FOR ALL CEILING DIFFUSERS OR PROVIDE DIFFUSERS WITH INTEGRAL THROAT CONNECTION.
6. FOR EXHAUST AND RETURN AIR REGISTERS, THE NECK/CFM RANGE REFERS TO THE REGISTER PLENUM BOX INDICATED IN THE CONNECTION DETAIL.

LOUVERS									
MARK	MANUFACTURER	MODEL	SYSTEM	SIZE (IN) WxH	FREE AREA (SQ FT)	AIRFLOW (CFM)	FACE VELOCITY (FPM)	PRESSURE DROP (IN WC)	NOTES
L-1	GREENHECK	EVH-501D	INTAKE	32 x 16	1.48	625	421	0.03	1,2
L-2	GREENHECK	EVH-501D	EXHAUST	64 x 24	5.49	3,600	656	0.07	1,2
L-3	GREENHECK	EVH-501D	EXHAUST	48 x 32	5.67	3,975	701	0.08	1,2
L-4	GREENHECK	EVH-501D	INTAKE	16 x 24	1.13	365	322	0.02	1,2
L-5	GREENHECK	EVH-501D	INTAKE	16 x 24	1.13	550	486	0.04	1,2

NOTES:
1. LOUVER SHALL BE AMCA-550 RATED WITH MAM-DA-DE NOA
2. PROVIDE WITH BIRDSCREEN

GRAVITY VENTILATORS					
MARK	MANUFACTURER AND MODEL	THROAT SIZE	CFM	HOOD SIZE	NOTES
GRV-1	GREENHECK - FGR	12X12	750	22X24	1 THRU 3

NOTES:
1. PROVIDE MANUFACTURER ROOF CURB FOR ROOF PITCH
2. PROVIDE WITH MAM-DA-DE NOA AND FLORIDA PRODUCT APPROVAL
3. PROVIDE BACKDRAFT DAMPER AND REMOVABLE/WASHABLE BIRD SCREEN

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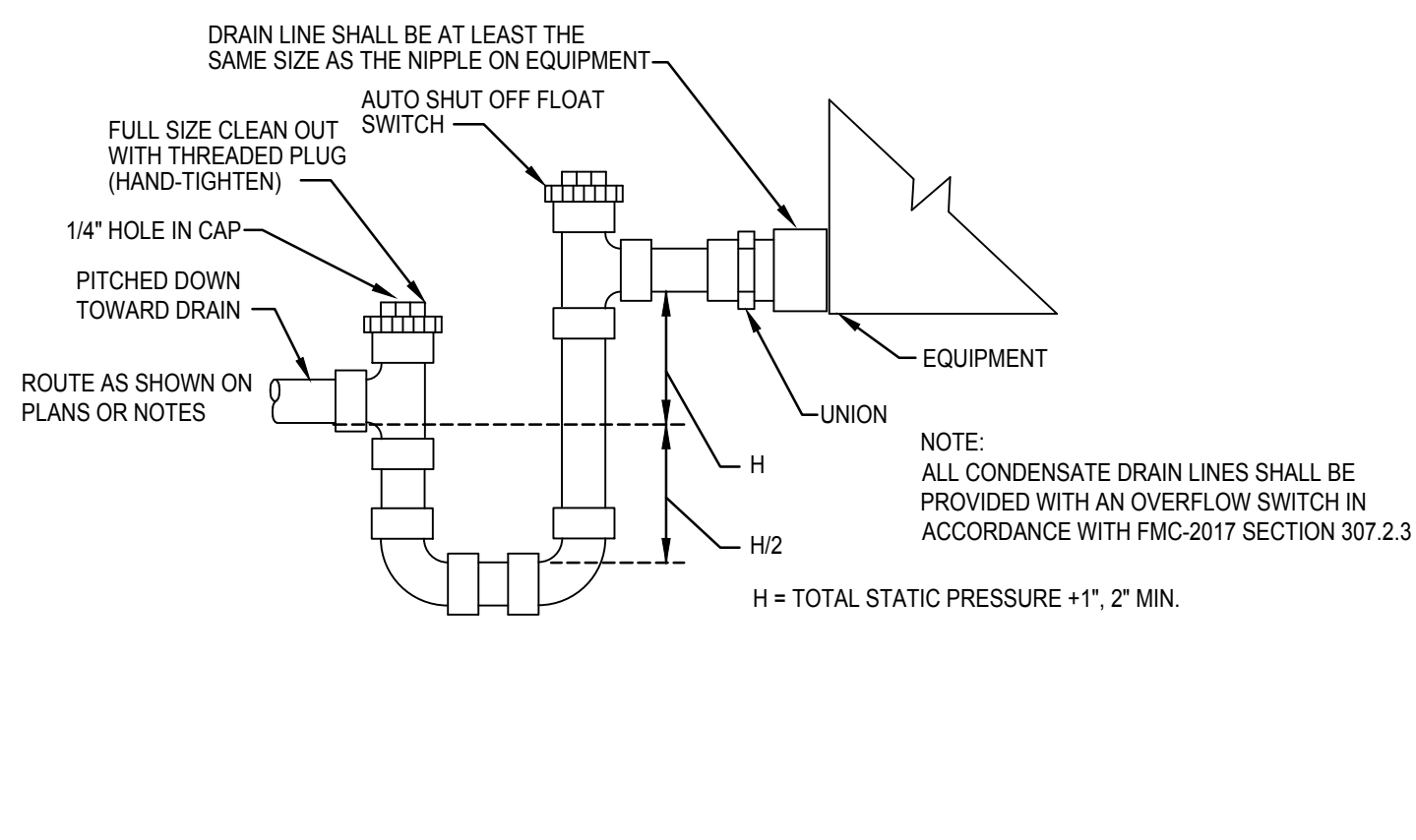
MECHANICAL SCHEDULES
M701
ISSUE DATE 07-12-22

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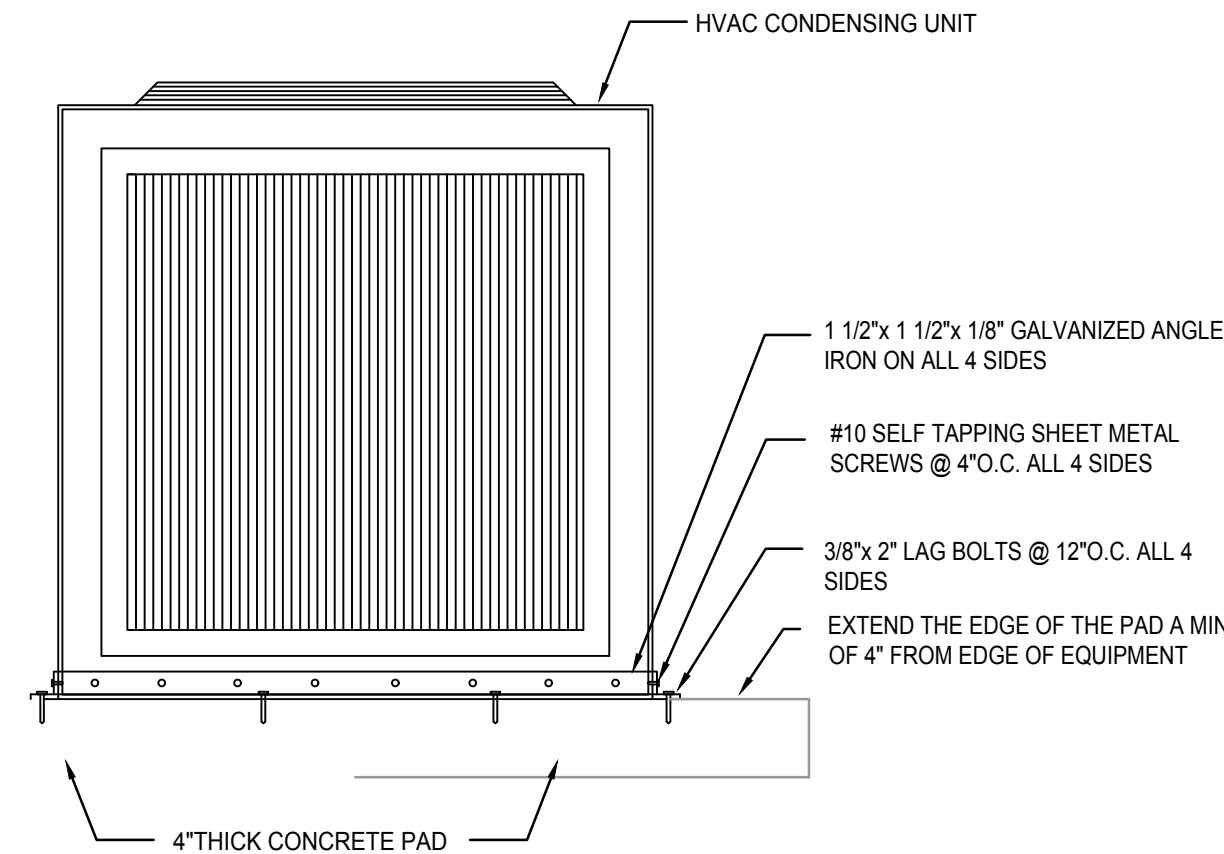
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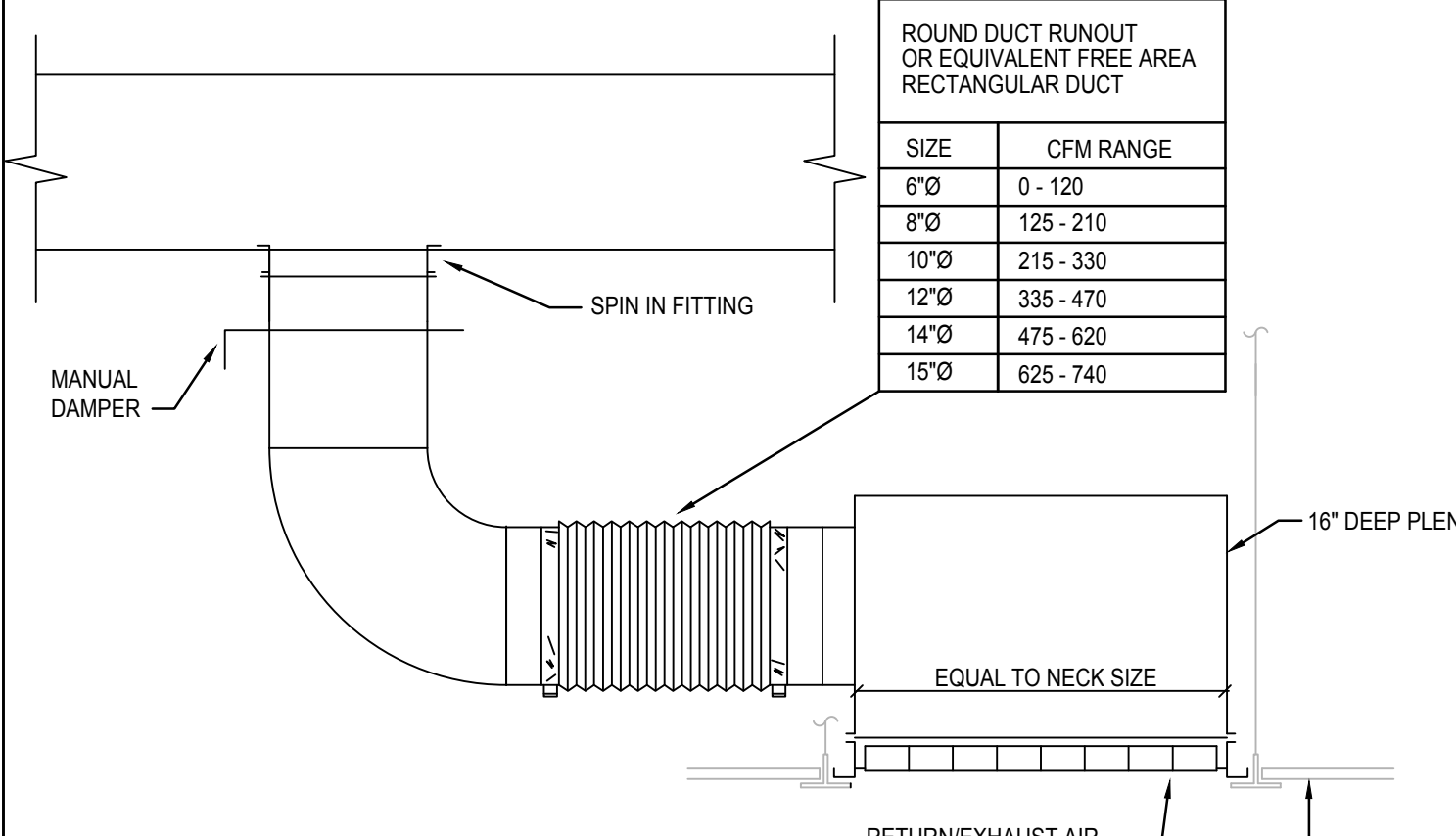
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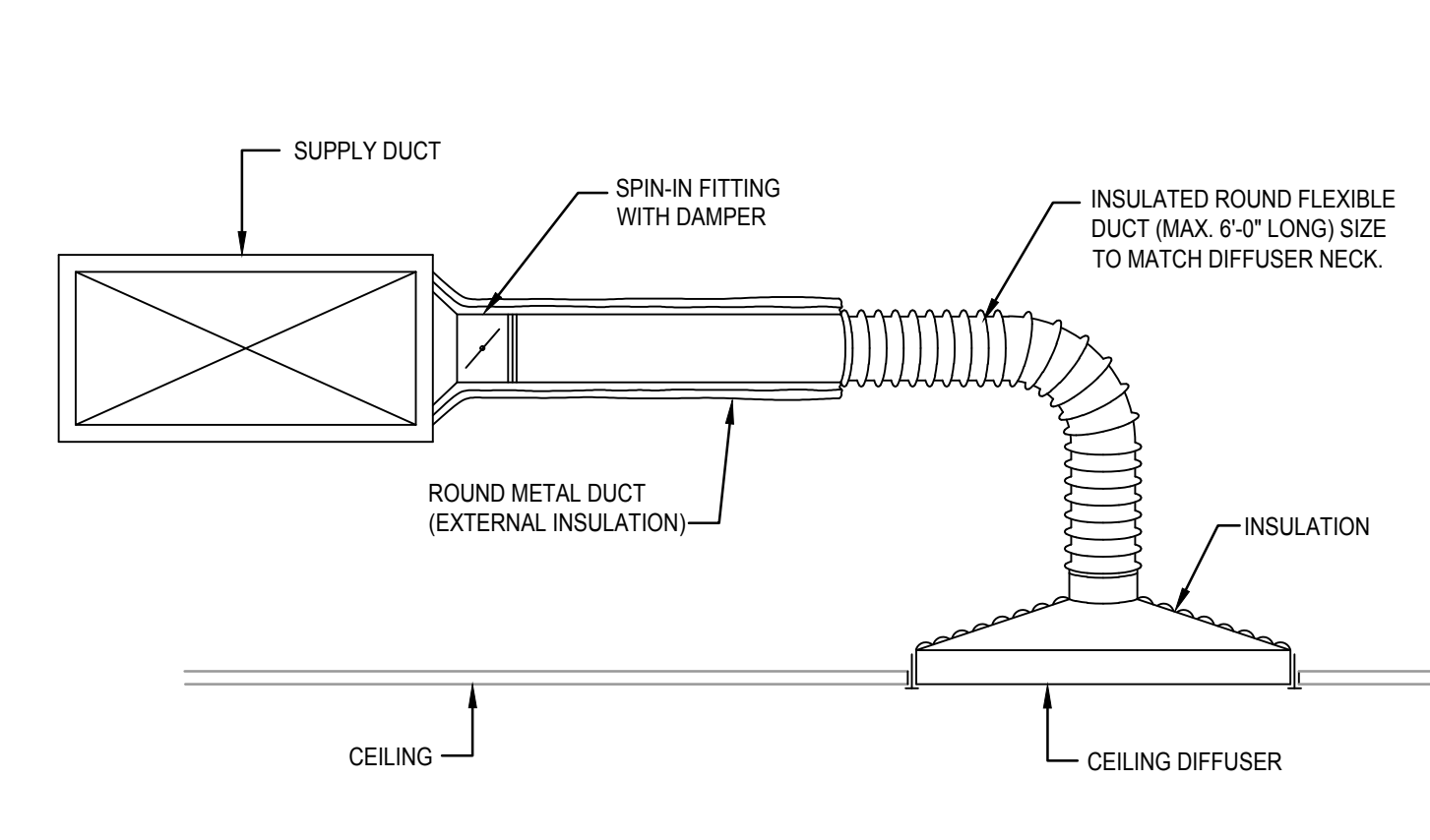
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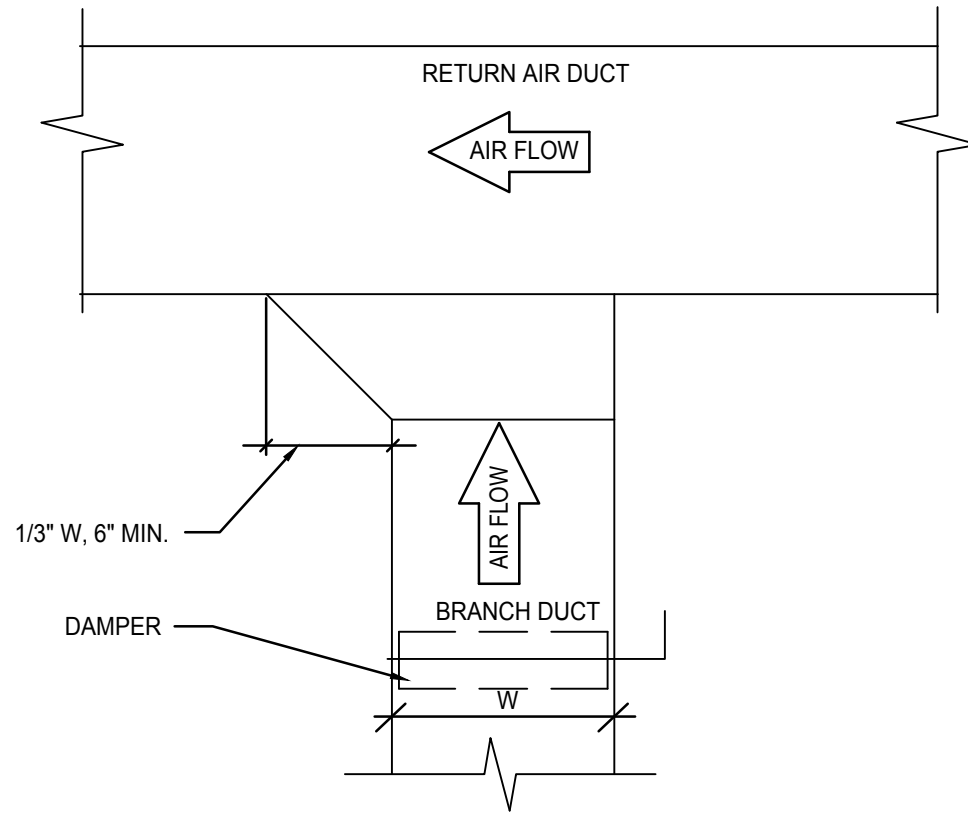
02 M801 **CONDENSING UNIT ANCHOR DETAIL**
NOT TO SCALE



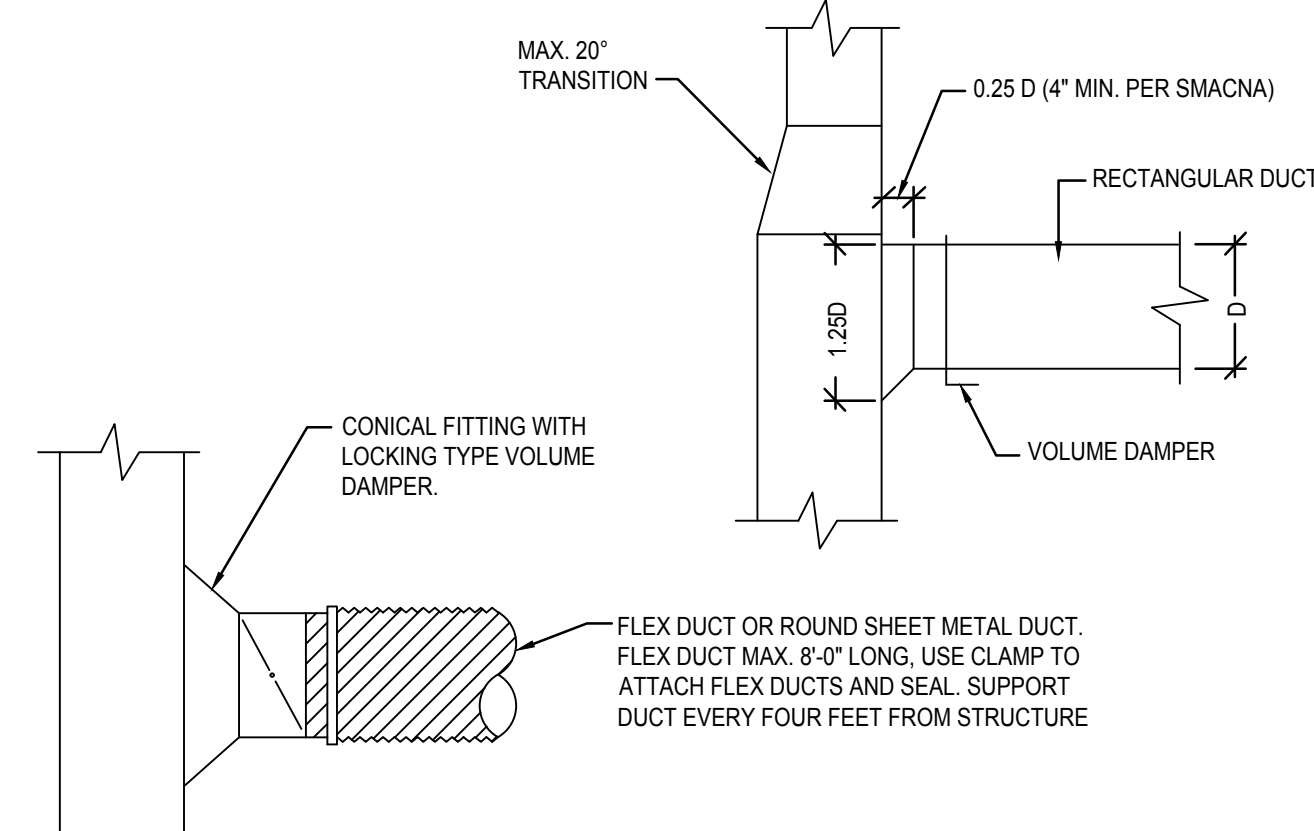
03 M801 **RETURN/EXHAUST REGISTER DETAIL**
NTS



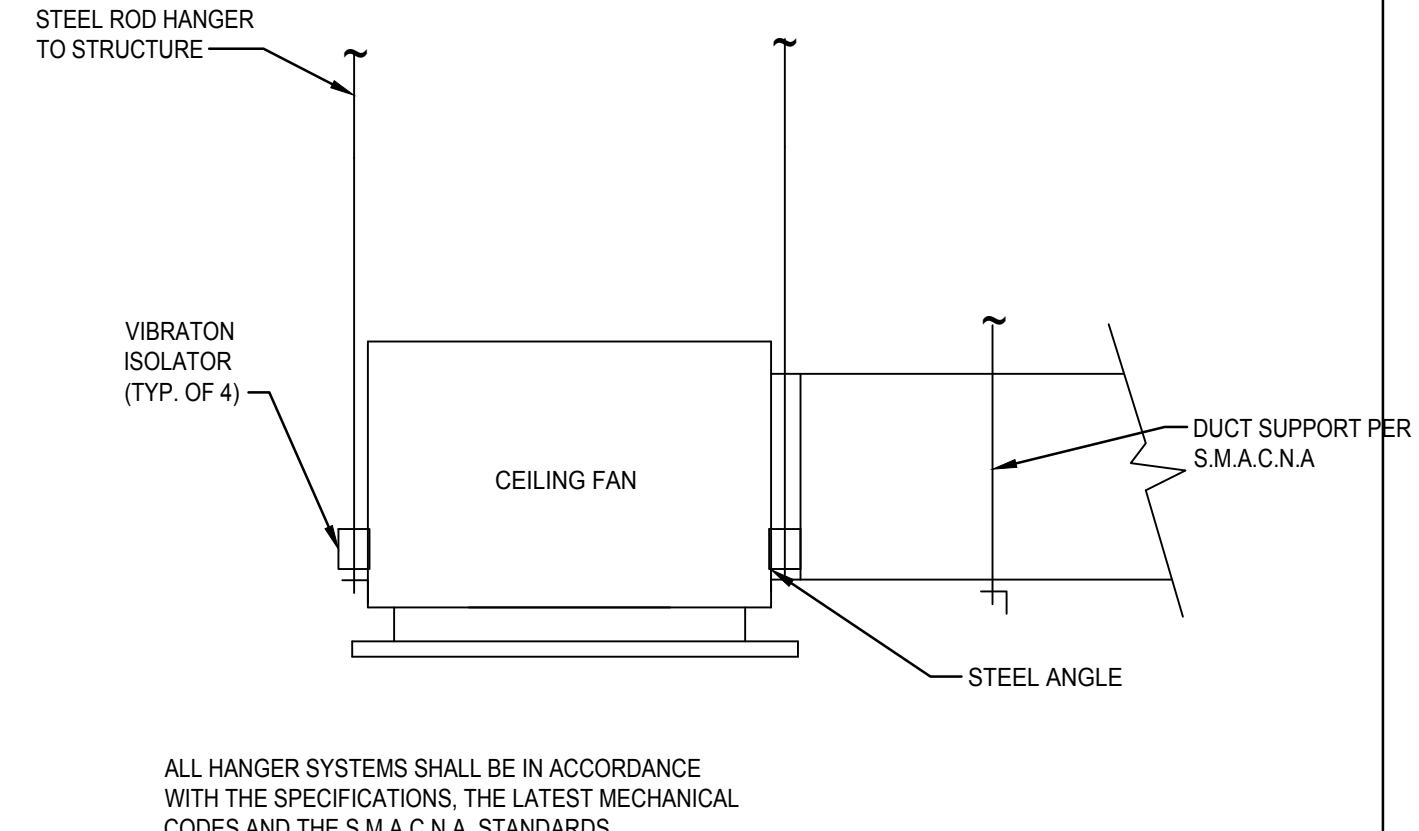
04 M801 **CEILING DIFFUSER RUNOUT DETAIL**
NOT TO SCALE



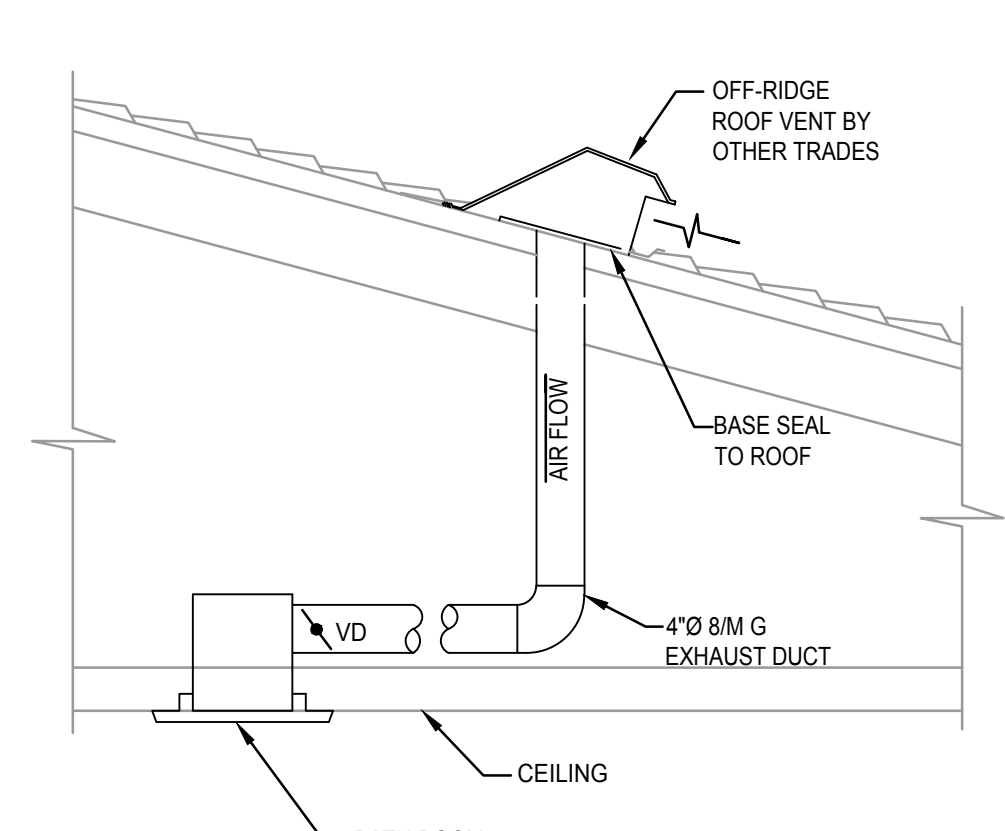
05 M801 **RETURN DUCT WITH DAMPER AT SINGLE BRANCH**
NOT TO SCALE



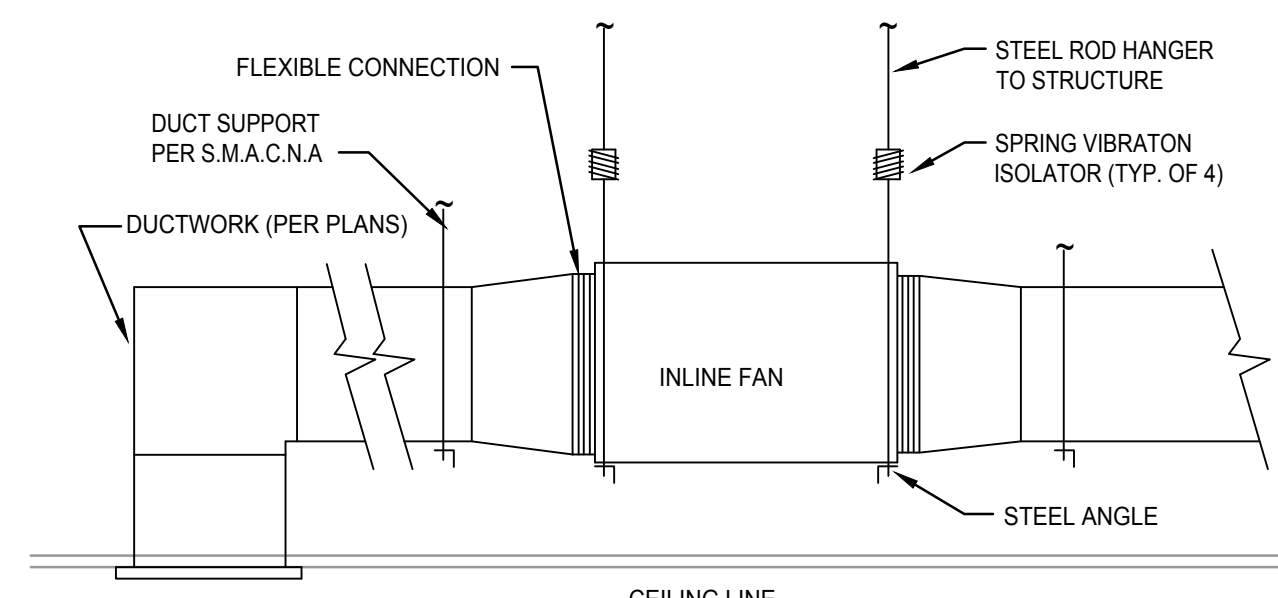
06 M801 **BRANCH DUCT DETAIL**
NOT TO SCALE



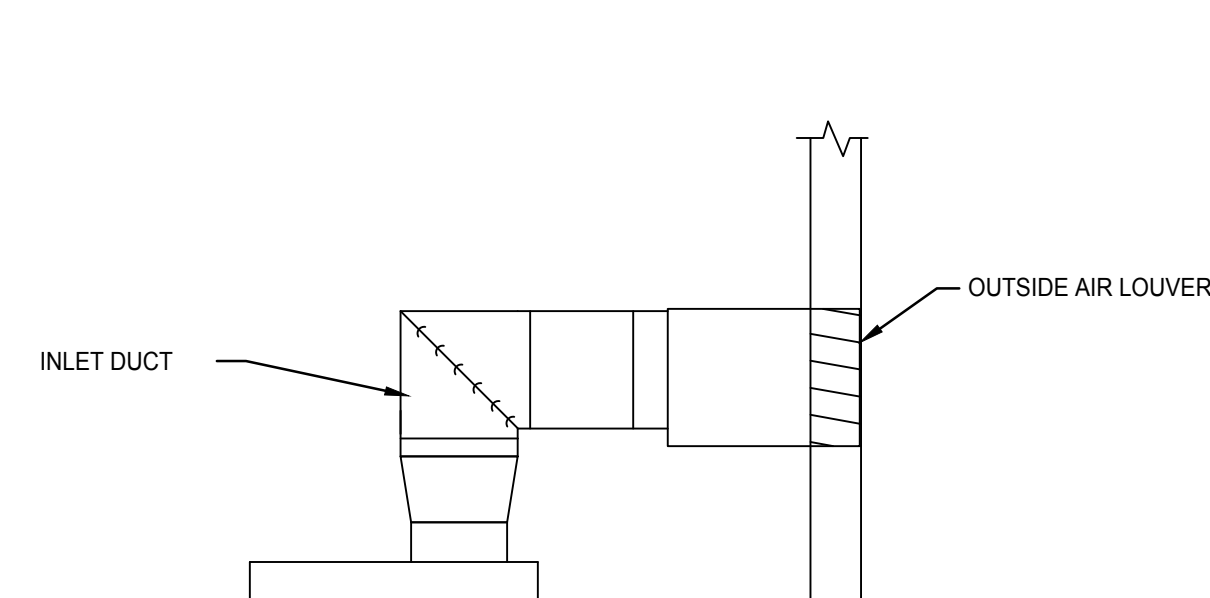
07 M801 **CEILING EXHAUST FAN DETAIL**
NOT TO SCALE



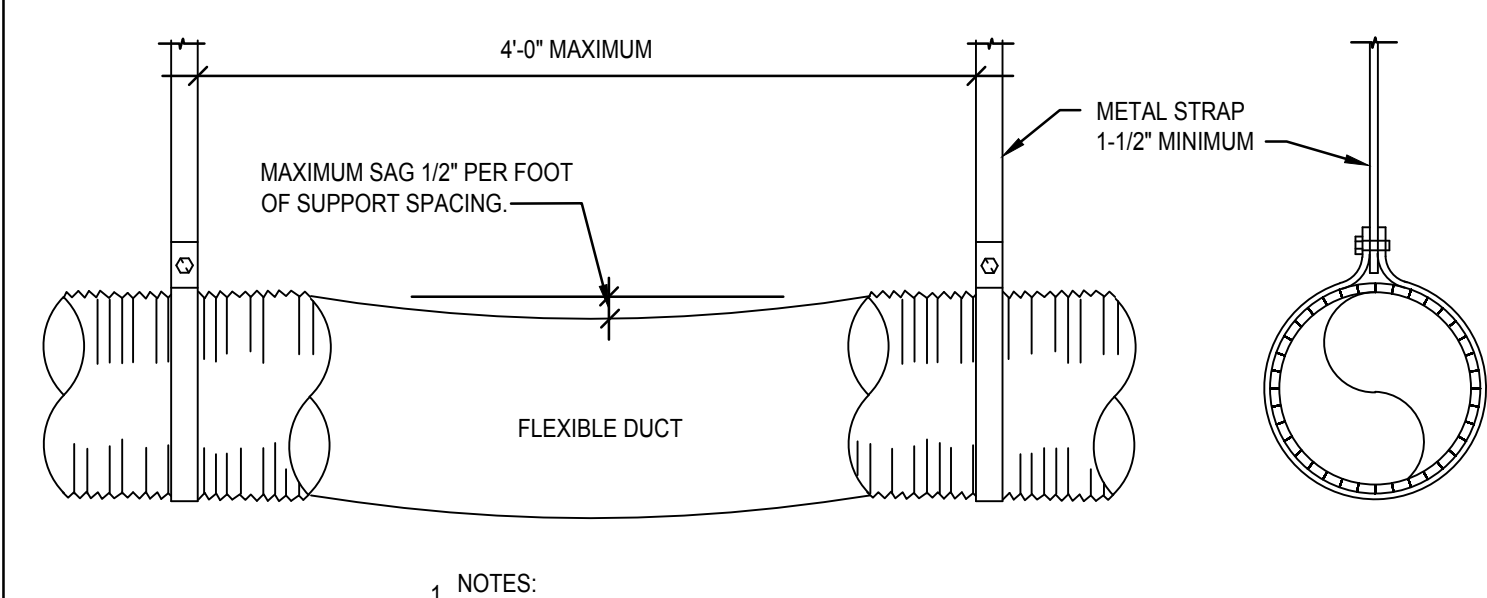
08 M801 **(CEILING) EXHAUST FAN & DUCT DETAIL**
NOT TO SCALE



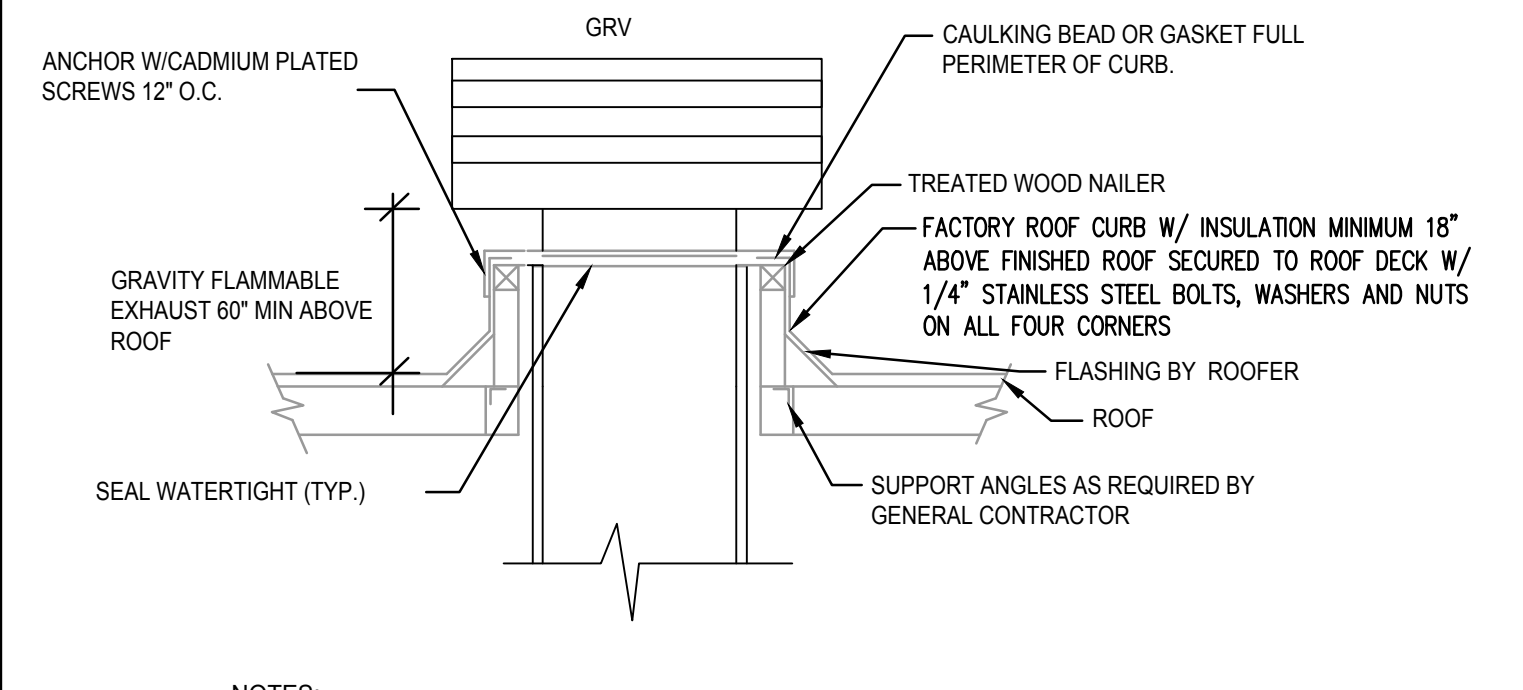
09 M801 **INLINE EXHAUST FAN**
NOT TO SCALE



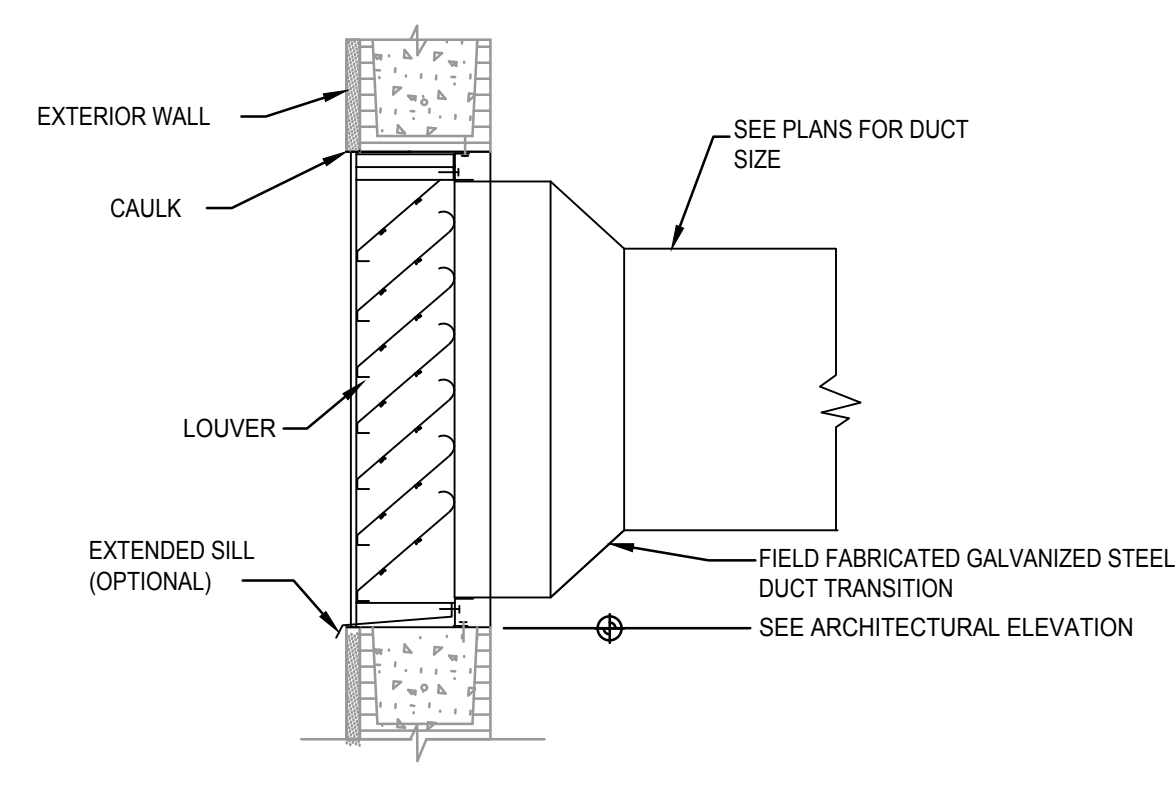
14 M801 **DOAS DETAIL**
NOT TO SCALE



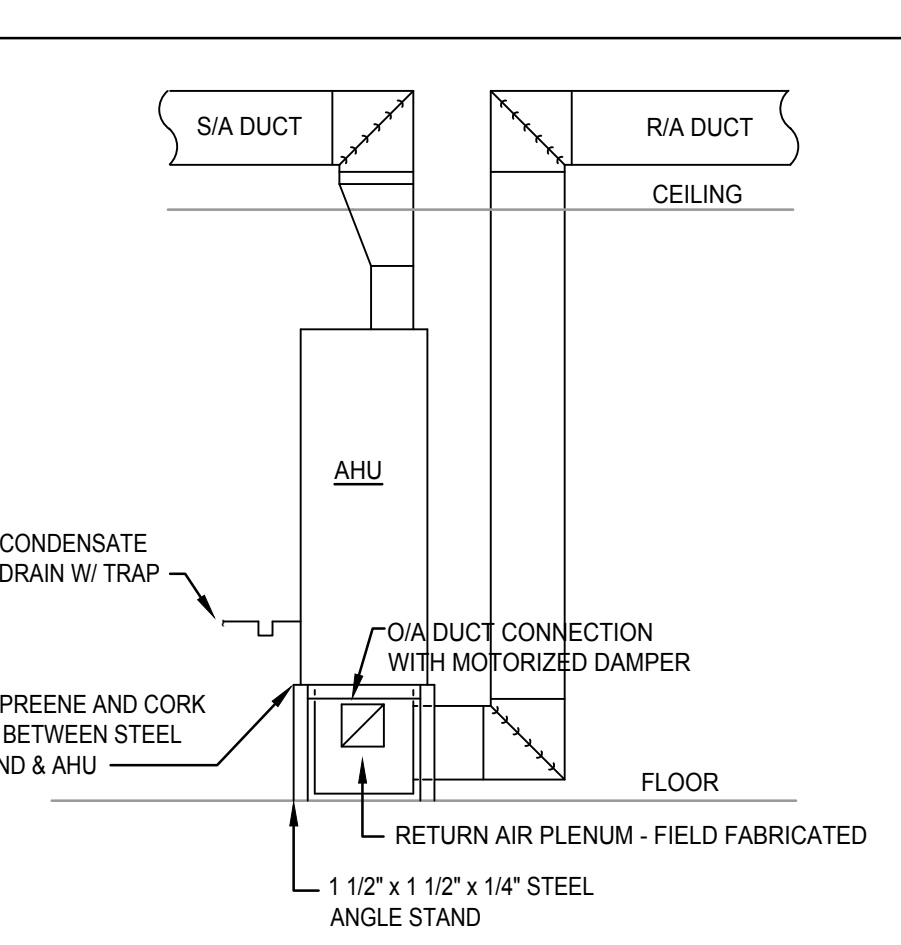
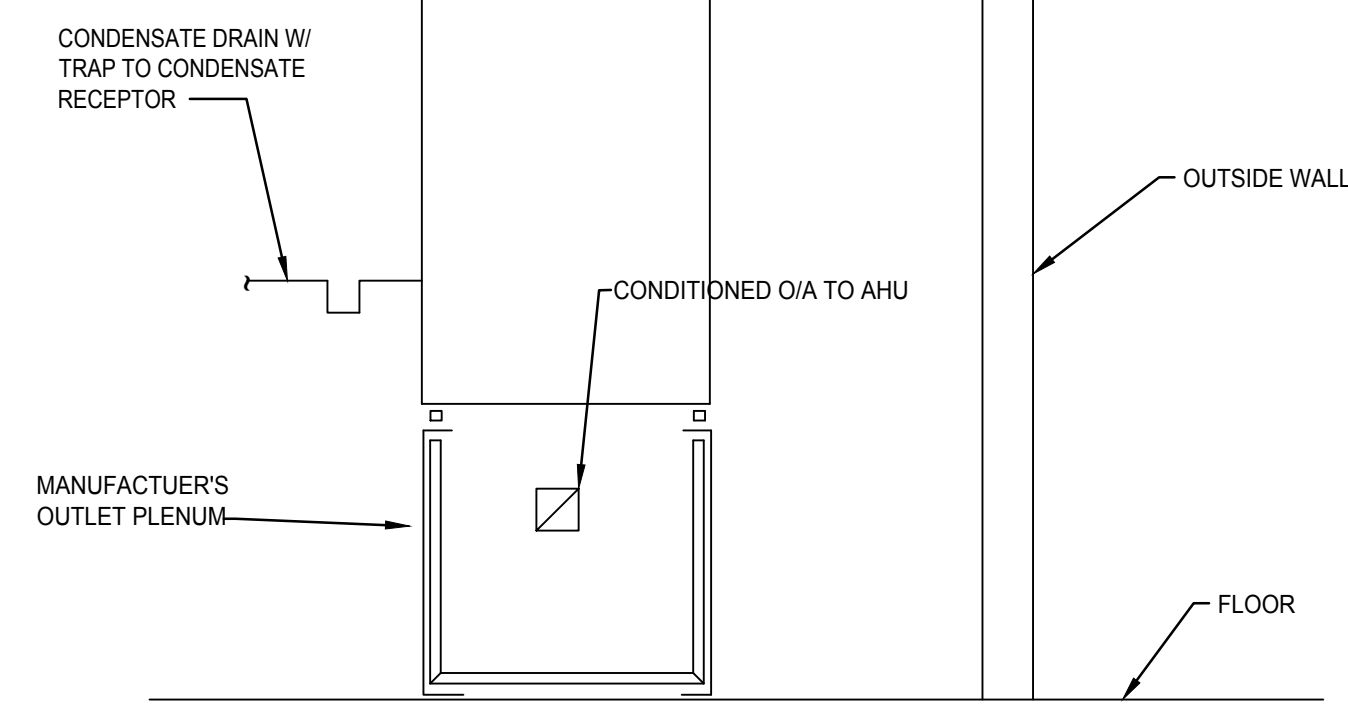
11 M801 **FLEX DUCT SUPPORT**
NOT TO SCALE



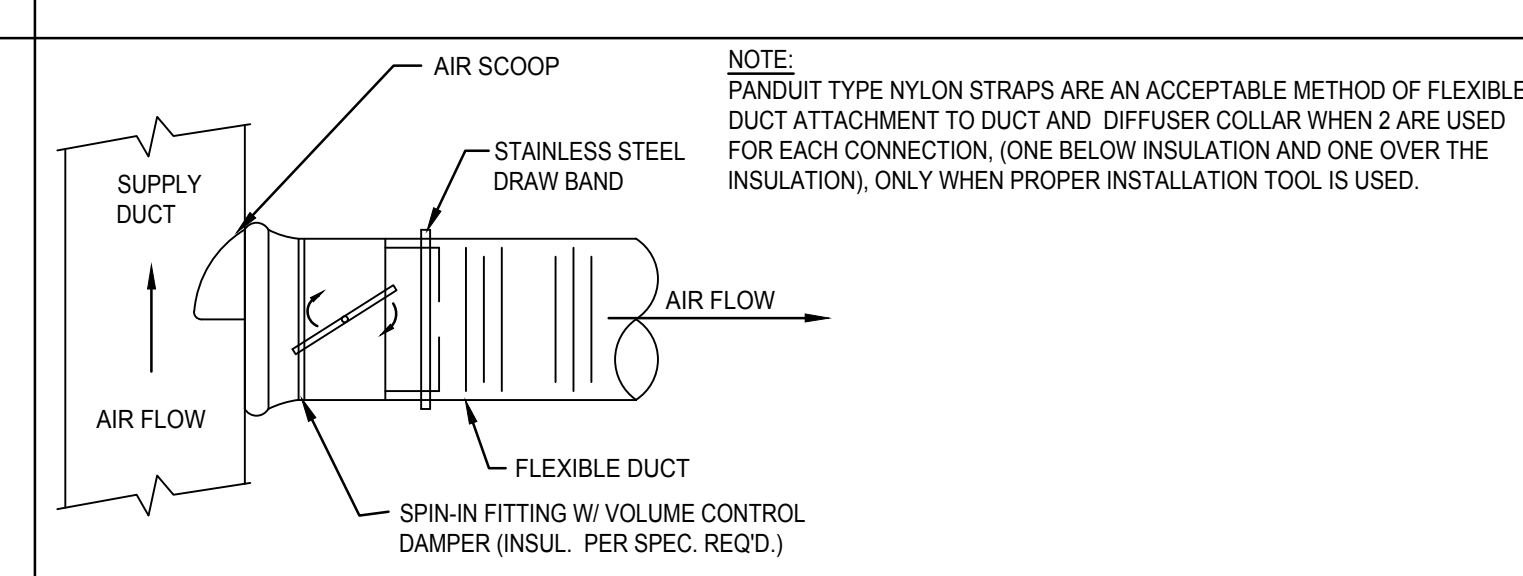
12 M801 **GRAVITY VENT DETAIL**
NOT TO SCALE



13 M801 **LOUVER DETAIL**
NOT TO SCALE

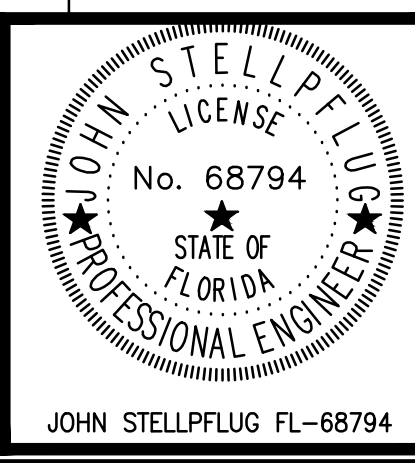


15 M801 **AHU INSTALLATION DETAIL**
NOT TO SCALE



16 M801 **TYPICAL FLEX DUCT CONNECTION**
NOT TO SCALE

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MECHANICAL DETAILS

M801
ISSUE DATE 07-12-22

JOB # GC-20-033

LIGHTING FIXTURES

- 1x4' FIXTURE
- 2x2' FIXTURE
- 2x4' FIXTURE
- 4' WALL MOUNT FIXTURE
- 4' WALL MOUNT FIXTURE, EMERGENCY
- 1x4' FIXTURE, BATTERY/EMERGENCY
- 2x2' FIXTURE, BATTERY/EMERGENCY
- 2x4' FIXTURE, BATTERY/EMERGENCY
- 4' STRIP FIXTURE
- 4' STRIP FIXTURE, BATTERY/EMERGENCY
- 4' STRIP FIXTURE, WALL MOUNTED
- 4' STRIP FIXTURE, WALL MOUNTED, BATTERY/EMERGENCY
- TRACK FIXTURE
- CEILING MOUNTED RECESSED, DOWN LIGHT
- CEILING MOUNTED RECESSED, EMERGENCY DOWN LIGHT
- CEILING MOUNTED RECESSED, WALL WASHER (ARROW INDICATES DIRECTION OF WASH)
- SURFACE MOUNTED LIGHTING FIXTURE
- WALL MOUNTED SCONCE FIXTURE, BATTERY/EMERGENCY
- FLOOD LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- SINGLE FACE EXIT LIGHT FIXTURE (ARROW INDICATES DIRECTION OF EGRESS)
- DOUBLE FACE EXIT LIGHT FIXTURE (ARROW INDICATES DIRECTION OF EGRESS)
- POLE MOUNTED SITE LIGHTING FIXTURE (RECTANGLES INDICATE NUMBER OF FIXTURES)
- SINGLE POLE MOUNT LUMINAIRE (RECTANGLES INDICATE NUMBER OF FIXTURES)
- POLE MOUNTED LUMINAIRE
- BOLLARD OR PENDANT LIGHT FIXTURE
- BOLLARD OR PENDANT LUMINAIRE, EMERGENCY

SWITCHES

SEE LIGHTING CONTROL DETAILS ON SHEET E801

- SWITCH
- SWITCH, 3-WAY
- SWITCH, 4-WAY
- SWITCH - LINE VOLTAGE TIMER, 120/277 VAC, WATTSTOPPER TS-400 OR EQUAL
- SWITCH - PILOT LIGHT
- SWITCH, 1 POLE, LETTER INDICATES SWITCHLEG CONTROLLED.
- SWITCH, 3-WAY, LETTER INDICATES SWITCHLEG CONTROLLED
- SWITCH, KEYSWITCH, 3-WAY
- SWITCH, KEYSWITCH
- MOTOR RATED SWITCH
- SWITCH, EXPLOSION PROOF
- SWITCH, LOW VOLTAGE MOMENTARY
- SWITCH, LOW VOLTAGE MOMENTARY WITH 0-10V DIMMING
- SWITCH, WEATHERPROOF

LIGHTING CONTROL DEVICES

SEE LIGHTING CONTROL DETAILS ON SHEET E801

- PHOTOCCELL
- TIMECLOCK
- LIGHTING CONTACTOR
- *PIR-WALL MOUNT SENSOR, LOW TEMP, 24 VDC/AC, 20mA, WATTSTOPPER CB-100 OR EQUAL.
- *PIR-CEILING MOUNT SENSOR 24 VDC/AC, 11mA, WATTSTOPPER CI-205 OR EQUAL.
- *DUAL ULTRASONIC/PIR-CEILING MOUNT SENSOR, 24 VDC/AC, 35mA, WATTSTOPPER DT-305 OR EQUAL.
- *DUAL ULTRASONIC/PIR-WALL MOUNT SENSOR, 24 VAC/VDC, 35mA, WATTSTOPPER DT-205 OR EQUAL.
- *ULTRASONIC-CEILING CORRIDOR MOTION SENSOR, 24 VDC/AC, 40mA, WATTSTOPPER WT-2250 OR EQUAL.
- PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277 VAC, 800/1200W, WATTSTOPPER PW-100 OR EQUAL.
- DUAL ULTRASONIC/PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-100 OR EQUAL.
- DUAL ULTRASONIC/PIR-DUAL RELAY WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-200 OR EQUAL.
- UL 924 LISTED FAILSAFE EMERGENCY SWITCHING RELAY, LVS EPCA OR EQUAL. LOWER CASE LETTER NEXT TO DEVICE INDICATES SWITCHLEG CONTROLLED.
- POWER PACK 120/277 VAC, 20 AMPS, 225mA SECONDARY, WATTSTOPPER BZ-250 OR EQUAL.
- *FOR LOW VOLTAGE OCCUPANCY SENSORS, PROVIDE POWER PACK(S) 120/277 VAC, 20 AMPS, 225mA SECONDARY AS NEEDED FOR ZONE/AREA CONTROL. WATTSTOPPER BZ-250 OR EQUAL.

POWER DISTRIBUTION

- 120/208V PANELBOARD, RECESSED
- 120/208V PANELBOARD, SURFACE MOUNT
- 277/480V PANELBOARD, SURFACE MOUNT
- 277/480V PANELBOARD, RECESSED
- FEEDER OR BRANCH CIRCUIT CONCEALED IN WALL, CEILING OR FLOOR
- HOMERUN CONSISTING OF ONE SINGLE-PHASE, 1-POLE CIRCUIT. SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
- HOMERUN CONSISTING OF ONE SINGLE-PHASE, 2-POLE CIRCUIT. SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
- HOMERUN CONSISTING OF TWO SINGLE-PHASE CIRCUITS. SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
- HOMERUN CONSISTING OF THREE SINGLE-PHASE CIRCUITS. SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
- HOMERUN CONSISTING OF ONE THREE-PHASE CIRCUITS. SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.

POWER DEVICES

- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- ABOVE COUNTER DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE, HALF SWITCHED
- SPECIAL PURPOSE RECEPTACLE
- SINGLE 250V NON-LOCKING TYPE RECEPTACLE
- DUPLEX RECEPTACLE FOR COMPUTER WORKSTATION
- QUAD RECEPTACLE FOR COMPUTER WORKSTATION
- DUPLEX RECEPTACLE FOR TV LOCATED AT 84" AFF UNLESS NOTED OTHERWISE.
- DUPLEX RECEPTACLE FOR TV LOCATED AT 18" AFF. LOCATE IN COMMON BOX WITH CCTV
- CEILING MOUNTED RECEPTACLE
- RECESSED FLOOR RECEPTACLE
- DUPLEX RECEPTACLE, GROUND FAULT
- DUPLEX RECEPTACLE, GROUND FAULT, ABOVE COUNTER
- QUAD RECEPTACLE, GROUND FAULT
- DUPLEX RECEPTACLE, GROUND FAULT WITH CAST ALUMINUM PADLOCKABLE (1/4" HASP) WEATHERPROOF "IN USE" COVER. TAYMAC MX3200 OR EQUAL
- DUPLEX RECEPTACLE, GROUND FAULT LOCATE WITHIN ELECTRIC WATER COOLER PER MANUFACTURER'S INSTRUCTIONS
- CLOCK
- POWER/DATA POLE
- POWER POLE
- DISCONNECT SWITCH
- MOTOR STARTER
- STARTER/DISCONNECT SWITCH
- VARIABLE FREQUENCY DRIVE
- JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- PULL BOX
- EQUIPMENT CONNECTION
- DOOR BELL PUSH BUTTON
- TRANSFORMER
- DOOR BELL
- SHUNT TRIP. MTD. AT 6'-5" AFF/AFG TO TOP OF ENCLOSURE

- MOTOR
- GENERATOR
- LOCKBOX
- GROUND BUS BAR
- GROUND ROD WITH TEST INSPECTION WELL. SEE SPECIFICATIONS.
- SURGE PROTECTION DEVICE. SEE SPECIFICATIONS.

LIGHTNING PROTECTION

- AIR TERMINAL (ALUMINUM CLASS 1 MIN).
- ROOFTOP MAIN CONDUCTOR, RUN EXPOSED ACROSS ROOF.
- DOWN CONDUCTOR, RUN CONCEALED IN STRUCTURE - COPPER CLASS 1
- COPPER-CLAD DRIVEN GROUND ROD AND TEST WELL. SEE SPECIFICATIONS.
- BOLTED 3-WAY SPLICE
- BOLTED 4-WAY SPLICE

MISCELLANEOUS SYMBOL LEGEND

- TITLE BLOCK
- DETAIL NUMBER
- DETAIL TITLE REFERENCE
- SHEET NUMBER WHERE DETAIL IS REFERENCED
- ADDITIONAL SHEET REFERENCES
- DETAIL NUMBER
- SHEET NUMBER TO WHERE DETAIL IS REFERENCED

SYSTEMS

PROVIDE CONDUIT AND PULL STRING FOR DEVICES AND WIRING TO BE INSTALLED BY OTHERS

- DATA/COMM DEVICE AT 18" TO CENTER. PROVIDE 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING
- TELEVISION DEVICE AT 54" TO CENTER. PROVIDE 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING
- ACCESS CONTROL KEYPAD AT 46" TO CENTER. PROVIDE 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING
- ACCESS CONTROL ELECTRONIC STRIKE. COORDINATE WITH SYSTEM INSTALLER FOR CONDUIT CHASE TO DOOR FRAME
- ACCESS CONTROL MOTION SENSOR FOR EXIT RELEASE. COORDINATE WITH SYSTEM INSTALLER FOR REQUIREMENTS
- CCTV CAMERA. PROVIDE 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING
- 4 SIDED CCTV CAMERA. PROVIDE 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING

FIRE ALARM

REFER TO FIRE ALARM DEVICE MOUNTING DETAIL FOR ADDITIONAL INFORMATION

- MANUAL FIRE ALARM PULL STATION
- WALL MOUNTED FIRE ALARM COMBINATION HORN/STROBE XX = CANDELA, 75 CANDELA WHERE NOT INDICATED WP = WEATHERPROOF
- WALL MOUNTED FIRE ALARM STROBE ONLY XX = CANDELA, 75 CANDELA WHERE NOT INDICATED
- CEILING MOUNTED SMOKE DETECTOR
- WEATHERPROOF WATER FLOW SWITCH MONITOR MODULE CONNECTED TO FIRE SPRINKLER SYSTEM. COORDINATE LOCATION WITH FIRE SPRINKLER DOCUMENTS FOR LOCATION
- WEATHERPROOF TAMPER SWITCH MONITOR MODULE CONNECTED TO FIRE SPRINKLER SYSTEM. COORDINATE LOCATION WITH FIRE SPRINKLER DOCUMENTS FOR LOCATION
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM CONTROL PANEL
- CONTROL MODULE
- KNOX BOX, 6" AFG, 3200 SERIES SURFACE MOUNT

LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	DESIGN SELECTION*	VOLTS	LAMPS/FIXTURE	INPUT WATTAGE
LA	2X2' GRID MOUNTED, LED TROFFER, MINIMUM 3300 LUMEN OUTPUT, 0-10 VOLT DIMMING	COLUMBIA LCAT22-40ML G-R-EDU	120V	3300 LUMEN LED	29W
LD	6" DIAMETER LED RECESSED DOWNLIGHT, WET LISTED, MINIMUM 1500 LUMEN OUTPUT, 0-10 VOLT DIMMING, SPECULAR FINISH, WIDE BEAM ANGLE	PRESCOLITE LTR-6RD-H-SL15L-DM1 LTR-6RD-T-SL40K8 XW S	120V	1500 LUMEN LED	18.7W
LG	ROUND LED HIGH-BAY FIXTURE, MINIMUM 14,000 LUMEN OUTPUT, FROSTED LENS	COLUMBIA CRN2-40LX-EDU-FP	120V	14000 LUMEN LED	102W
LGE	ROUND LED HIGH-BAY FIXTURE, MINIMUM 14,000 LUMEN OUTPUT, FROSTED LENS, WITH BATTERY BACKUP	COLUMBIA CRN2-40LX-EDU-FP CRN2-ELL25	120V	14000 LUMEN LED	102W
LH	ROUND LED HIGH-BAY FIXTURE, CLASS 1, DIV 2 RATED, MINIMUM 10,000 LUMEN OUTPUT, ACRYLIC LENS	COLUMBIA HBLH-48L-A2-4K-W-070-ND-ENCA	120V	10000 LUMEN LED	112W
LN	4' LINEAR LED WITH LENS, MINIMUM 4000 LUMEN OUTPUT, DAMP LOCATION RATED	COLUMBIA MPS4-40ML-CW-EDU	120V	4600 LUMEN LED	40W
LV	SURFACE MOUNTED LED VANITY FIXTURE, UL DAMP LISTED, 1500 LUMEN.	VISA LIGHTING CB5513 L40K-H	120V	1500 LUMEN LED	15W
LW	EXTERIOR WALL SCONCE, LED, MINIMUM 2600 LUMEN OUTPUT, UL LISTED WET LOCATION	HUBBELL LNC2 12L U 4K 3-FINISH 93044013 DIFFUSER	120V	2600 LUMEN LED	28W
EM	THERMOPLASTIC LED EMERGENCY BATTERY UNIT, NICAD 90 MINUTE BATTERY MINIMUM, DAMP LISTED MOUNTED AT 8' AFF UNLESS NOTED OTHERWISE	COMPASS CU2	120V	LED	-
EX	LED EXIT FIXTURE, DIE CAST ALUMINUM FACE, RED LETTERS, ARROWS AS INDICATED ON DRAWINGS, NICAD BATTERY BACKUP, UNIVERSAL MOUNT, SINGLE FACE, DAMP LISTED.	COMPASS CCE5RE	120V	LED	1W
FN	16 FOOT DIAMETER FAN, BAIRFOILS WITH SOUND REDUCING WINGLETS, SPEED CONTROL.	BIG ASS FAN PFX3-16	208V 3PH		1.5 HP / 1.1KW

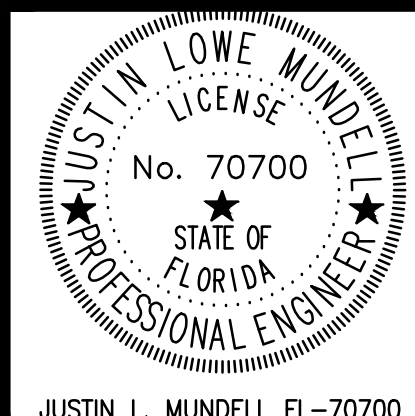
NOTES

- ALTERNATE MANUFACTURES OF FIXTURES ARE ACCEPTABLE PROVIDING THAT THEY MEET THE INTENT OF DESIGN TO INCLUDE LUMEN OUTPUT, CONTROLLABILITY, DURABILITY, WATTAGE, VOLTAGE, AND AESTHETICS.
- FINAL FIXTURE FINISHES SHALL BE SELECTED DURING SUBMITTAL PROCESS BY ARCHITECT FROM EXTENDED STANDARD COLOR CHART FOR EACH FIXTURE.
- ALL FIXTURES SHALL BE LABELED WITH MAXIMUM ALLOWABLE WATTAGE. MAXIMUM IS THE WATTAGE OF LAMP AS SHOWN IN SCHEDULE.
- ALL FIXTURES, WHETHER STANDARD OR NOT, REQUIRE LISTING BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- ALL FIXTURE NOTED AS EMERGENCY FIXTURES SHALL SUPPLY A MINIMUM OF 90MIN BACK-UP BATTERY POWER. WHEN FIXTURE MODEL DIFFERS FROM FIXTURE DESCRIPTION, THEN THE FIXTURE DESCRIPTION SHALL GOVERN.

ABBREVIATIONS

A	AMPERES	EXIST	EXISTING	MCB	MAIN CIRCUIT BREAKER
AE	AUDIO ENHANCEMENT	EXP	EXPLOSION PROOF	MCC	MOTOR CONTROL CENTER
AFC	ABOVE FINISHED CEILING	FA	FIRE ALARM	MCP	MOTOR CIRCUIT PROTECTOR
AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPERES	MFR	MANUFACTURER
AFG	ABOVE FINISHED GRADE	FLUOR	FLUORESCENT	MH	METAL HALIDE
AIC	AMPERES INTERRUPTING CAPACITY	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MIN	MINIMUM
AL	ALUMINUM	GFP	GROUND FAULT PROTECTION	MISC	MISCELLANEOUS
AWG	AMERICAN WIRE GAUGE	GND	GROUND	MMS	MANUAL MOTOR STARTER SWITCH
BFC	BELOW FINISHED CEILING	HGT	HEIGHT	MTR	MOTOR
BFG	BELOW FINISHED GRADE	HD	HIGH INTENSITY DISCHARGE	MTD	MOUNTED
C	CONDUIT	HPS	HIGH PRESSURE SODIUM	MTG	MOUNTING
CAB	CABINET	HOA	HAND-OFF-AUTOMATIC	NAC	NOTIFICATION APPLIANCE CIRCUIT
CKT	CIRCUIT	HP	HORSEPOWER	NEC	NATIONAL ELECTRICAL CODE
CLG	CEILING	HVAC	HEATING/VENTILATING/ AIR CONDITIONING	NL	NIGHT LIGHT, UNSWITCHED
CL	CENTERLINE	HV	HIGH VOLTAGE	PNL	PANEL
CT's	CURRENT TRANSFORMERS	INC	INCANDESCENT	PSI	PULL STATION INSIDE
CU	COPPER	JB	JUNCTION BOX	PVC	POLYVINYL CHLORIDE
DISC	DISCONNECT(ING)	kv	KILO-VOLTS	REC	RECEPTACLE
DWG	DRAWING(S)	kVA	KILO-VOLTS-AMPERES	RGS	RIGID GALVANIZED STEEL
EA	EACH	kVAR	KILO-VOLTS-AMPERES REACTIVE	SPD	SURGE PROTECTION DEVICE
ECB	ENCLOSED CIRCUIT BREAKER	kw	KILO-WATTS	TEL	TELEPHONE
EF	EXHAUST FAN	kWh	KILO-WATT-HOURS	TYP	TYPICAL
EMT	ELECTRICAL METALLIC TUBING	LTG	LIGHTING	UON	UNLESS OTHERWISE NOTED
EQUIP	EQUIPMENT	m	METER	V	VOLTS
EUH	ELECTRIC UNIT HEATER	mm	MILLIMETER	VA	VOLT-AMPERES
EWC	ELECTRIC WATER COOLER	MAX	MAXIMUM	VFD	VARIABLE FREQUENCY DRIVE
EWH	ELECTRIC WATER HEATER			W	WATTS
EXH	EXHAUST			WP	WEATHER PROOF
				XFMR	TRANSFORMER

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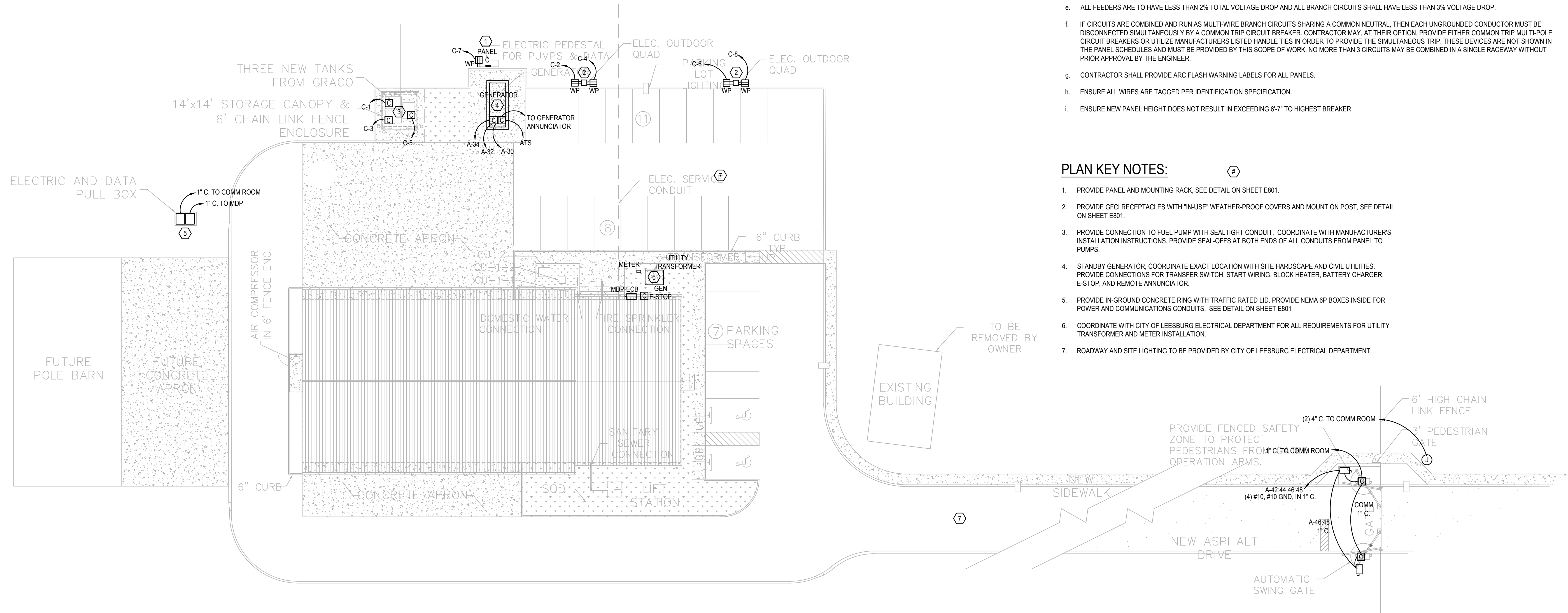
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ELECTRICAL SYMBOLS LEGEND

E001
ISSUE DATE 07-12-22

JOB #: GC-20-033



GENERAL NOTES:

- a. REFER TO SYMBOL LEGEND ON SHEET E001.
- b. REFER TO BOOK SPECIFICATIONS.
- c. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES AND OUTLETS.
- d. REFER TO EQUIPMENT SCHEDULES FOR DISCONNECT, CONDUIT AND WIRE SIZES.
- e. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.
- f. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CIRCUITS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER.
- g. CONTRACTOR SHALL PROVIDE ARC FLASH WARNING LABELS FOR ALL PANELS.
- h. ENSURE ALL WIRES ARE TAGGED PER IDENTIFICATION SPECIFICATION.
- i. ENSURE NEW PANEL HEIGHT DOES NOT RESULT IN EXCEEDING 6'-7" TO HIGHEST BREAKER.

PLAN KEY NOTES:

- 1. PROVIDE PANEL AND MOUNTING RACK, SEE DETAIL ON SHEET E801.
- 2. PROVIDE GFCI RECEPTACLES WITH "IN-USE" WEATHER-PROOF COVERS AND MOUNT ON POST, SEE DETAIL ON SHEET E801.
- 3. PROVIDE CONNECTION TO FUEL PUMP WITH SEALTIGHT CONDUIT. COORDINATE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE SEAL-OFFS AT BOTH ENDS OF ALL CONDUITS FROM PANEL TO PUMPS.
- 4. STANDBY GENERATOR. COORDINATE EXACT LOCATION WITH SITE HARDSCAPE AND CIVIL UTILITIES. PROVIDE CONNECTIONS FOR TRANSFER SWITCH, START WIRING, BLOCK HEATER, BATTERY CHARGER, E-STOP, AND REMOTE ANNUNCIATOR.
- 5. PROVIDE IN-GROUND CONCRETE RING WITH TRAFFIC RATED LID. PROVIDE NEMA 6P BOXES INSIDE FOR POWER AND COMMUNICATIONS CONDUITS. SEE DETAIL ON SHEET E801.
- 6. COORDINATE WITH CITY OF LEESBURG ELECTRICAL DEPARTMENT FOR ALL REQUIREMENTS FOR UTILITY TRANSFORMER AND METER INSTALLATION.
- 7. ROADWAY AND SITE LIGHTING TO BE PROVIDED BY CITY OF LEESBURG ELECTRICAL DEPARTMENT.

ELECTRICAL SITE PLAN
 SCALE: 1"=20'
 0 10' 20' 40'

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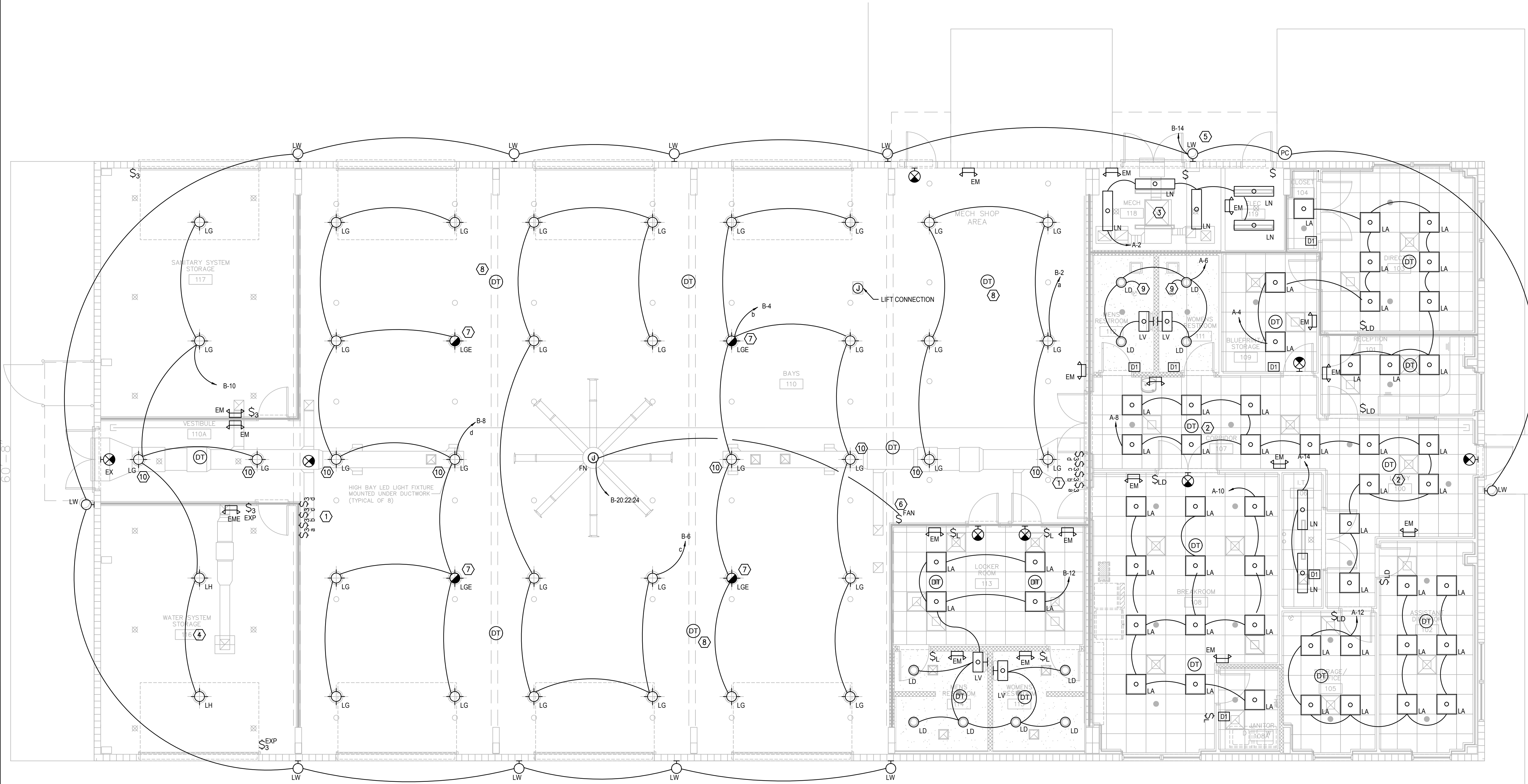
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ELECTRICAL SITE PLAN	
E101	
ISSUE DATE	07-12-22

PLAN KEY NOTES:

1. PROVIDE SWITCHBANK AND COORDINATE THE EXACT PLACEMENT WITH ARCHITECTURAL. INSTALL SWITCHES IN A SINGLE MULTI-GANG BOX WITH A COMMON COVER PLATE.
2. CONNECT ALL CORRIDOR AND LOBBY OCCUPANCY SENSORS TO CONTROL ALL LIGHTS ON A SINGLE SWITCHLEG.
3. COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL EQUIPMENT. HANG FIXTURES BELOW ALL DUCTWORK. FIXTURES TO BE MOUNTED AT 8'-0" AFF TO BOTTOM OF FIXTURE.
4. ALL FIXTURES AND SWITCHES IN AREA SHALL BE EXPLOSION PROOF. ALL CONDUITS SHALL BE GALVANIZED RIGID STEEL. COMPLY WITH ALL REQUIREMENTS OF NEC ARTICLE 501.
5. ROUTE EXTERIOR LIGHTING CIRCUITS VIA EXTERIOR LIGHTING CONTACTOR.
6. INSTALL FAN CONTROL PROVIDED WITH FAN. COORDINATE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL NECESSARY CONDUIT AND WIRING BETWEEN SWITCH AND FAN.
7. PROVIDE UNSWITCHED PORTION OF LIGHTING CIRCUIT TO BATTERY PORTION OF LIGHT FIXTURE. COORDINATE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CONNECT FIXTURES TO BE CONTROLLED BY LOCAL SWITCHLEG AND ENERGIZE FROM BATTERY WHEN LOSS OF LINE POWER OCCURS.
8. LINK ALL OCCUPANCY SENSORS IN BAY AREAS TOGETHER AS A SINGLE SYSTEM TO CONTROL ALL LIGHTING AHEAD OF WALL SWITCHES.
9. PROVIDE CONNECTION TO EXHAUST FAN.
10. COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL DUCTWORK. PROVIDE UNISTRUT SUSPENDED FROM STRUCTURE BELOW DUCTWORK TO HANG FIXTURES AT 16'-0" AFF TO BOTTOM OF FIXTURE.

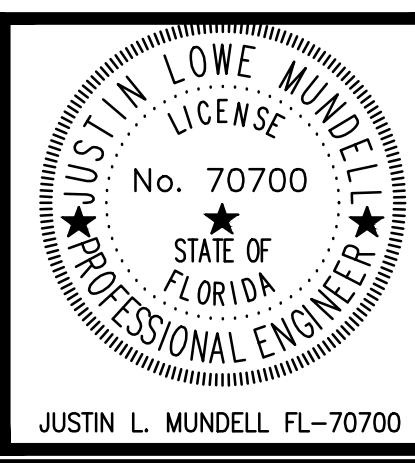
GENERAL NOTES:

- a. REFER TO SYMBOL LEGEND NOTES ON SHEET E001.
- b. REFER TO BOOK SPECIFICATIONS.
- c. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES, AND OUTLETS.
- d. CONNECT ALL EMERGENCY BALLAST, EMERGENCY BATTERY UNITS AND EXITS AHEAD OF ALL SWITCHING TO LOCAL LIGHTING CIRCUIT.
- e. ALL MOTION SENSOR DEVICES SHALL BE CONNECTED AHEAD OF ALL LOCAL SWITCHES.
- f. MOTION SENSOR LOCATIONS ARE SHOWN FOR GENERAL INFORMATION. LOCATE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. LOCATE MOTION SENSORS A MINIMUM OF 4' AWAY FROM ANY A/C DIFFUSER.
- g. ALL EXIT SIGNS ARE TYPE EX UNLESS OTHERWISE NOTED.
- h. ALL EMERGENCY LIGHTS ARE TYPE EM UNLESS OTHERWISE NOTED.



LIGHTING PLAN
SCALE: 3/16"=1'-0"
0 2 4 8

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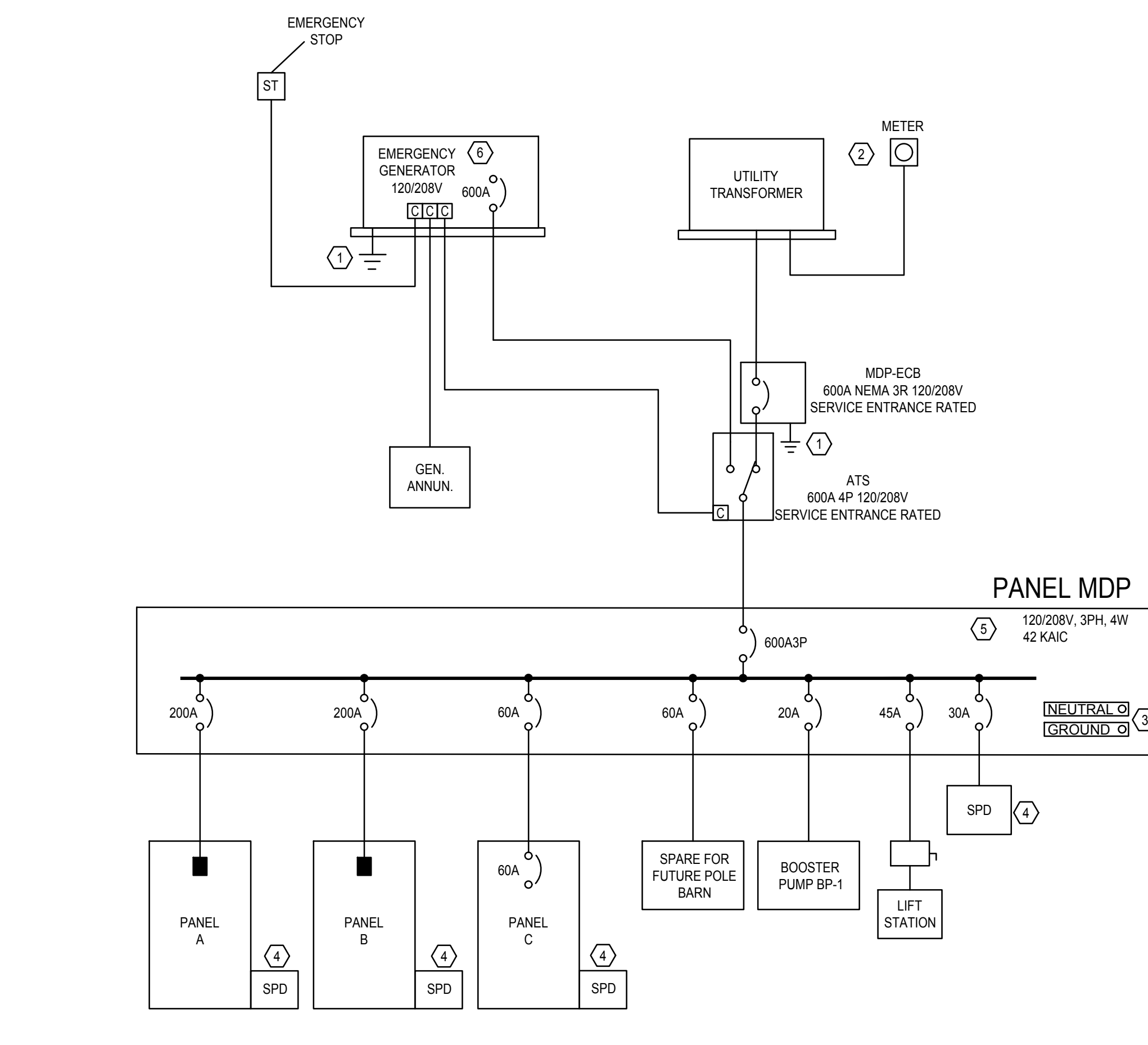
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LIGHTING PLAN
E201
ISSUE DATE 07-12-22

JOB # GC-20-033

MANUFACTURER:		SQ. D.		MAIN OPTIONS REQUIRED				PANEL NAME:	
TYPE: HCM		42		MCO: 600		AMPS		MDP	
AIC RATING: 42		K AMPS		MLO: 42		AMPS		LOCATION: ELEC ROOM 119	
VOLTS L-N: 120		V		S.E. RATED: YES		GF1 PROT: NO		MOUNTING: SURFACE	
VOLTS L-L: 208		V		SHUNT TRIP: N/A		NEMA TYPE: 1		WIDTH: 32.00 IN	
PHASE: 3								DEPTH: 8.25 IN	
NOTES	CKT NO.	IDENTIFICATION	LOAD/PHASE (KVA)	CIRCUIT BREAKER			LOAD/PHASE (KVA)	IDENTIFICATION	CKT NO.
				A	B	C			
	1	AHU-1-1	4.76				4.00	LIFT STATION	2
	3	AHU-1-1	4.76				4.00	LIFT STATION	4
	5	AHU-1-1	4.76				4.00	LIFT STATION	6
	7	AHU-1-2	4.22				3.00	PANEL C (FUEL STATION)	8
	9	AHU-1-2	4.22				3.00	PANEL C (FUEL STATION)	10
	11	AHU-1-2	4.22				3.00	PANEL C (FUEL STATION)	12
	13	DOAS-2	3.89				3.00	EW-H-1	14
	15	DOAS-2	3.89				3.00	EW-H-1	16
	17	DOAS-2	3.89				3.00	EW-H-1	18
	19	CU-1-1	2.56				4.00	POLE BARN PANEL	20
	21	CU-1-1	2.56				4.00	POLE BARN PANEL	22
	23	CU-1-1	2.56				4.00	POLE BARN PANEL	24
	25	CU-1-2	2.56				1.30	BOOSTER PUMP BP-1	26
	27	CU-1-2	2.56				1.30	BOOSTER PUMP BP-1	28
	29	CU-1-2	2.56				1.30	BOOSTER PUMP BP-1	30
	31	CU-2	0.38				14.24	PANEL A	32
	33	CU-2	0.38				14.24	PANEL A	34
	35	CU-2	0.38				14.24	PANEL A	36
	37	SURGE PROTECTION					18.43	PANEL B	38
	39	SURGE PROTECTION					18.43	PANEL B	40
	41	SURGE PROTECTION					18.43	PANEL B	42



- GENERAL NOTES:**
- REFER TO SYMBOL LEGEND ON SHEET E001.
 - REFER TO BOOK SPECIFICATIONS.
 - REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES AND OUTLETS.
 - REFER TO EQUIPMENT SCHEDULES FOR DISCONNECT, CONDUIT AND WIRE SIZES.
 - ALL COMPUTER CIRCUITS SHALL HAVE DEDICATED NEUTRAL FROM LOAD TO SOURCE EQUIPMENT.
 - ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.
 - IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CIRCUITS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER.
 - CONTRACTOR SHALL PROVIDE ARC FLASH WARNING LABELS FOR ALL PANELS.
 - ENSURE ALL WIRES ARE TAGGED PER IDENTIFICATION SPECIFICATION.
 - ENSURE NEW PANEL HEIGHT DOES NOT RESULT IN EXCEEDING 6'-7" TO HIGHEST BREAKER.

- PLAN KEY NOTES:**
- PROVIDE GROUNDING ELECTRODE PER DETAIL.
 - COORDINATE WITH UTILITY COMPANY TO PROVIDE REQUIRED CONDUIT AND WIRE CONNECTION FOR SERVICE AND METER INSTALLATION.
 - DO NOT BOND GROUND AND NEUTRAL BUS.
 - PROVIDE SURGE PROTECTION DEVICE FOR PANEL.
 - SEE PANEL SCHEDULE FOR ALL BREAKERS REQUIRED FOR EQUIPMENT CONNECTIONS.
 - STANDBY DIESEL GENERATOR SET WITH ENCLOSURE AND FUEL TANK. 120/208V, 3 PHASE, 4 WIRE, 180KW WITH 600A BREAKER. ENCLOSURE TO BE 150 MPH RATED, 500 GAL FUEL TANK.

PANEL FEEDER SCHEDULE:

* WIRE SIZES ARE BASED ON NFPA 70 TABLE 310.15(B)(16) 60 DEGREE CU COLUMN FOR SIZES OF 100A AND LESS. ALL OTHERS BASED ON 75 DEGREE COLUMN.

FEEDER DESCRIPTION	VOLTS	PH	NEUT	200% GRND	ISO GND	MAIN OCP RATING	LOAD AMPS**	DISCONNECT SIZE	FUSE	NEMA	WIRE PER PHASE	NEUT WIRE	ADD NEUT	GND WIRE	ISO GND	SYST BOND JUMP	# OF RUNS	CONDUIT SIZE	APPROX DIST.**	VOLT DROP	NOTES
UTIL MDP-ECB	208	3	Y	N	N	600	480				#350	#350		#1		#2/0	2	3"	50	0.39%	
MDP-ECB	208	3	Y	N	Y	600	480				#350	#350		#1		2	3"	20	0.16%		
GEN	208	3	Y	N	Y	600	480				#350	#350		#1		2	3"	50	0.39%		
ATS	208	3	Y	N	Y	600	480				#350	#350		#1		2	3"	10	0.08%		
MDP A	208	3	Y	N	Y	200	160				#3/0	#3/0		#6		1	2-1/2"	30	0.32%		
MDP B	208	3	Y	N	Y	200	160				#3/0	#3/0		#6		1	2-1/2"	30	0.32%		
MDP C	208	3	Y	N	Y	60	48				#2	#2		#4		1	1-1/2"	200	1.60%		

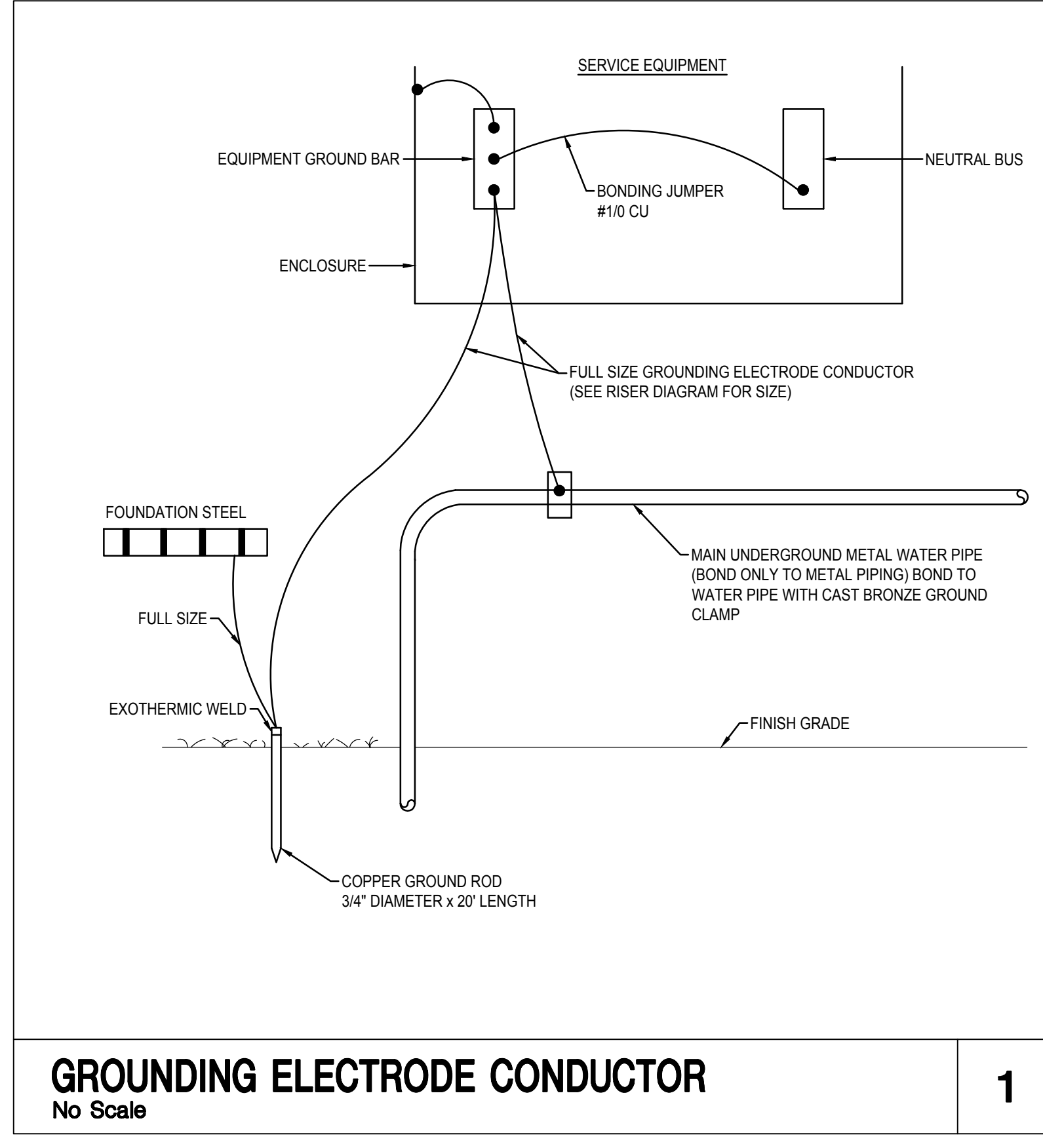
ELECTRICAL ONE-LINE DIAGRAM

EQUIPMENT FEEDER SCHEDULE:

* WIRE SIZES ARE BASED ON NFPA 70 TABLE 310.15(B)(16) 60 DEGREE CU COLUMN FOR SIZES OF 100A OR LESS. ALL OTHERS BASED ON 75 DEGREE COLUMN.

**DISTANCE SHOWN FOR VOLTAGE DROP CALCULATION ONLY. ACTUAL DISTANCE MAY VARY DEPENDENT ON ROUTING.

EQUIPMENT DESCRIPTION	VOLTS	PH	NEUT	MOTOR (LARGEST)	ADDITIONAL MOTORS	HEAT STRIPS	MISC AMPS	TOTAL AMPS	MIN CKT A	P.N.L. C.B. SIZE	DISCONNECT SIZE	STARTER TYPE	WIRE PER PHASE	NEUT WIRE	GND WIRE	# OF RUNS	CONDUIT SIZE	APPROX DIST.**	VOLT DROP	NOTES	
AHU-1-1	208	3	Y	1.00	3.50			39.6	49.5	50	60	NF	1	#6	#6	#10	1	1-1/4"	50	0.81%	
AHU-1-2	208	3	Y	1.00	4.60			35.2	44.0	45	60	NF	1	#6	#6	#10	1	1-1/4"	50	0.72%	
DOAS-2	208	3	Y	5.00	16.70	2.00	7.50	47.3	54.3	60	60	NF	1	#4	#4	#10	1	1-1/2"	50	0.61%	
CU-1-1	208	3	Y	5.00	16.70	1.00	4.60	21.3	25.5	30	30	NF	3R	#10	#10	#10	1	3/4"	50	1.06%	
CU-1-2	208	3	Y	5.00	16.70	1.00	4.60	21.3	25.5	30	30	NF	3R	#10	#10	#10	1	3/4"	50	1.06%	
CU-2	208	3	Y				3.00	3.0	3.0	15	30	NF	3R	#12	#12	#12	1	3/4"	75	0.37%	
EF-1	120	1	Y		0.07			0.1	0.1	15	MMS		1	#12	#12	#12	1	3/4"	30	0.01%	
EF-2	120	1	Y		0.07			0.1	0.1	15	MMS		1	#12	#12	#12	1	3/4"	30	0.01%	
EF-3	120	1	Y		0.78			0.8	1.0	15	MMS		1	#12	#12	#12	1	3/4"	75	0.19%	
EF-4	120	1	Y	1.00	16.00			16.0	20.0	30	MMS		1	#10	#10	#10	1	3/4"	75	2.40%	
EF-5	120	1	Y	1.00	16.00			16.0	20.0	30	MMS		1	#6	#6	#6	1	1-1/4"	150	1.96%	
EF-6	120	1	Y		2.60			2.6	3.3	15	MMS		1	#12	#12	#12	1	3/4"	150	1.30%	
EMC	120	1	Y					8.0	8.0	15				#12	#12	#12	1	3/4"	50	1.33%	
HAND DRYER	120	1	Y		8.32			8.3	10.4	15				#12	#12	#12	1	3/4"	100	2.77%	
EW-H-1	208	3	Y				9.0	25.0	31.3	35	60	NF	1	#8	#8	#10	1	1"	50	0.81%	
ICE MACHINE	208	1	Y		15.10			15.1	18.9	20	MMS		1	#12	#12	#12	1	3/4"	75	2.18%	
CAR LIFT	208	3	Y	3.00	10.60			13.6	16.3	20	30	NF	1	#12	#12	#12	1	3/4"	75	1.70%	
208 RECEPT	208	1	Y				8.3	39.9	39.9	50			1	#6	#6	#10	1	1-1/4"	130	2.44%	
AIR COMPRESSOR	208	3	Y	5.00	16.70			16.7	20.9	25	30	NF	3R	#10	#10	#10	1	3/4"	150	2.50%	
DRYER	208	1	Y				5.0	24.0	30.0	30				#10	#10	#10	1	3/4"	100	2.77%	
LIFT STATION	208	3	Y	5.00	16.70	5.00	16.70	33.4	37.6	45	60	NF	3R	#6	#6	#10	1	1-1/4"	150	2.04%	
ENTRY GATE	208	1	N	0.50	5.40			5.4	6.8	15	30	NF	3R	#10	#10	#10	1	3/4"	450	2.80%	
BOOSTER PUMP	208	3	Y	3.00	10.60			2.0	12.6	20	30	NF		#12	#12	#12	1	3/4"	50	1.05%	



GROUNDING ELECTRODE CONDUCTOR
No Scale

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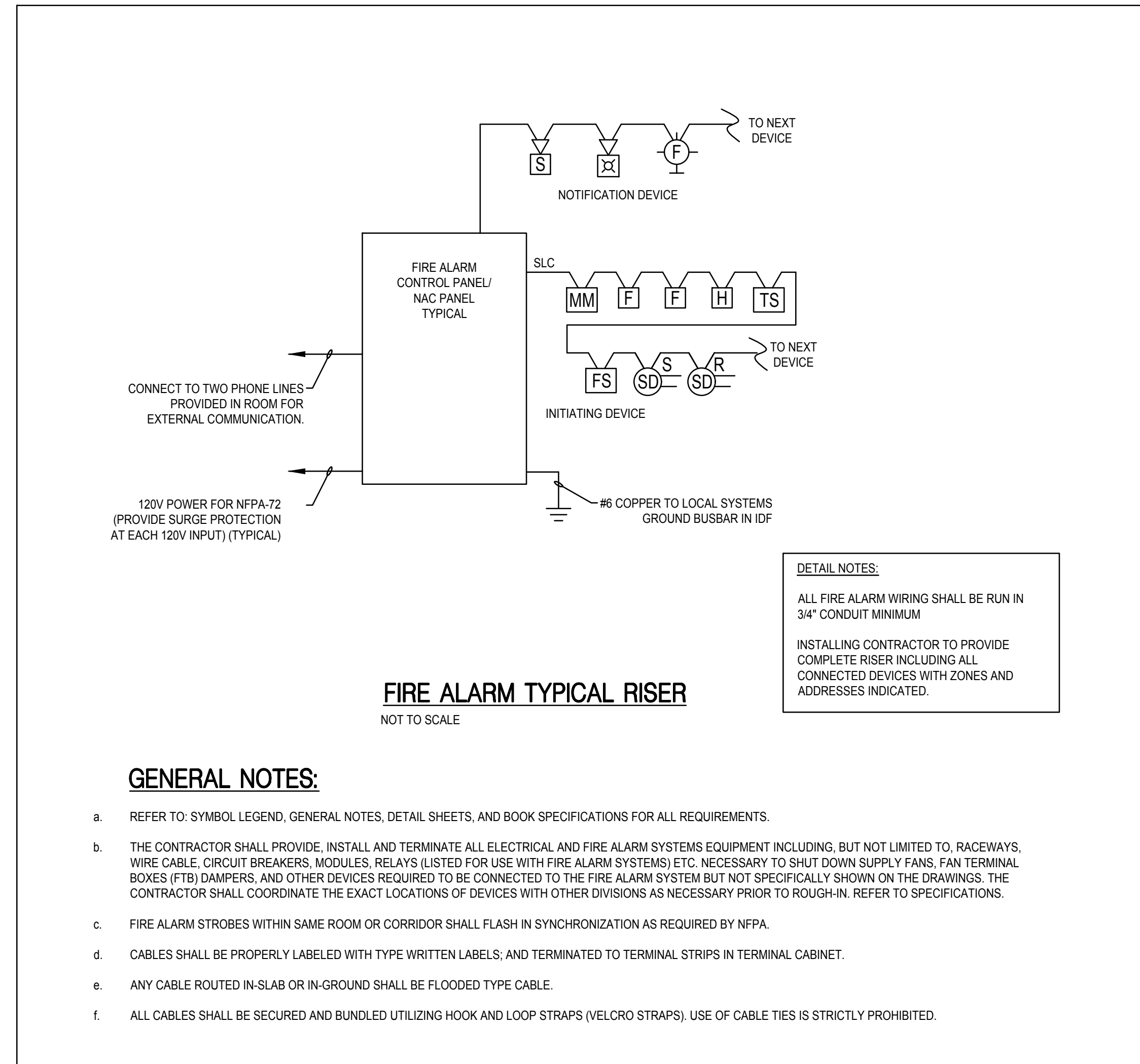
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ELECTRICAL ONE-LINE DIAGRAM E501

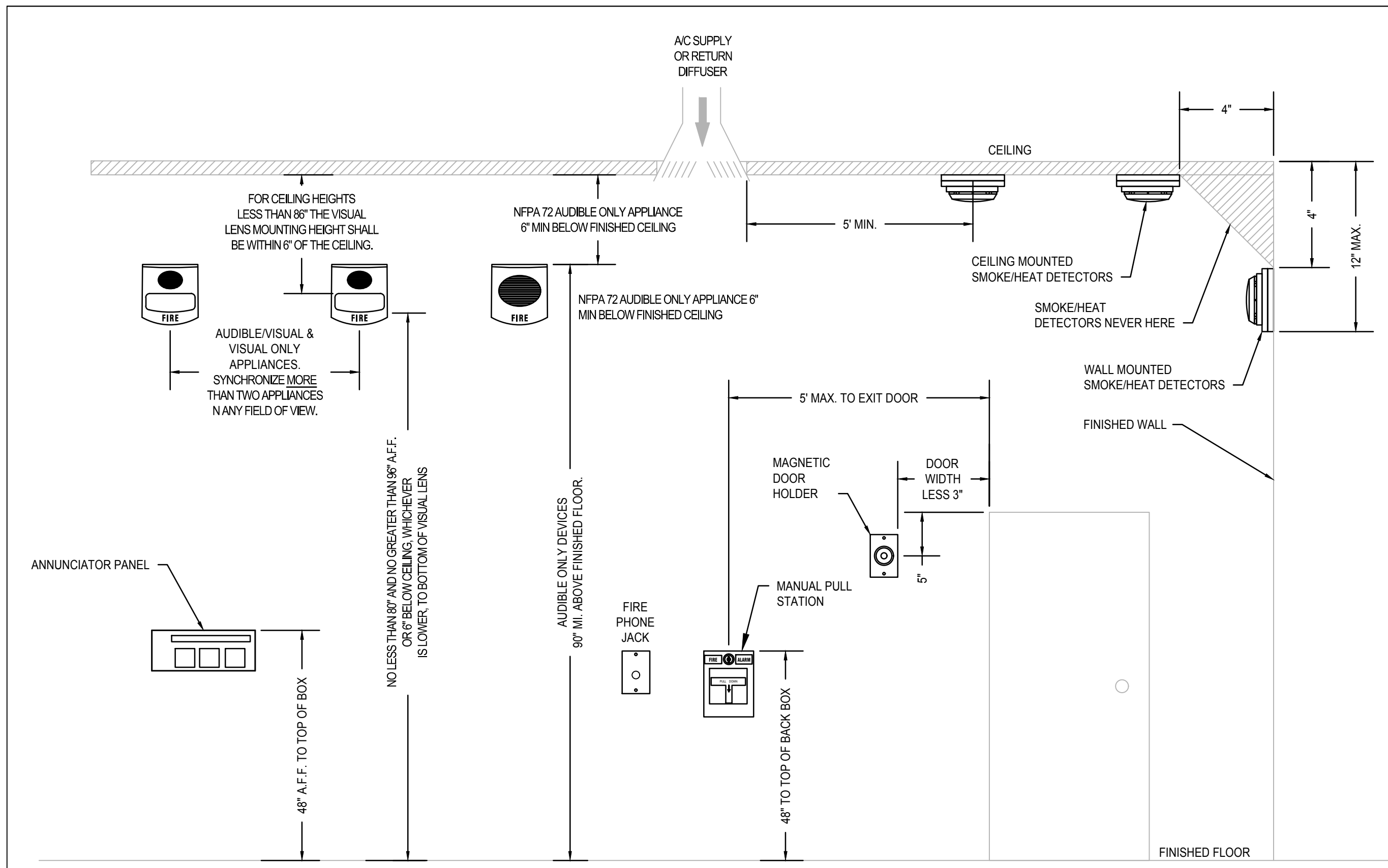
ISSUE DATE: 07-12-22



DETAIL NOTES:

ALL FIRE ALARM WIRING SHALL BE RUN IN 3/4" CONDUIT MINIMUM

INSTALLING CONTRACTOR TO PROVIDE COMPLETE RISER INCLUDING ALL CONNECTED DEVICES WITH ZONES AND ADDRESSES INDICATED.



FIRE ALARM DEVICES MOUNTING (PER NFPA 72)
No Scale

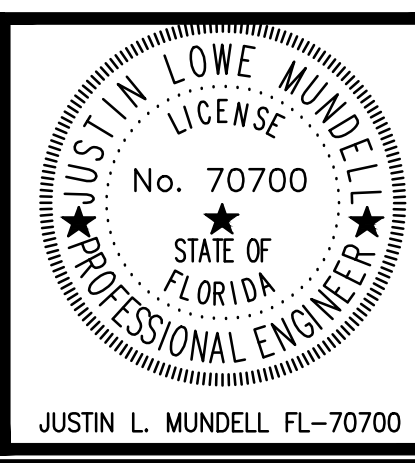
SYSTEM OUTPUTS

SYSTEM INPUTS	SYSTEM OUTPUTS												
	A	B	C	D	E	F	G	H	I	J	K	L	M
1 MANUAL FIRE ALARM BOXES - 1ST FLOOR	X	X					X	X	X				X
2 SMOKE DETECTOR AT FIRE ALARM EQUIPMENT	X	X					X	X	X				X
3 WATERFLOW - 1ST FLOOR	X	X					X	X	X				X
4 MAIN CONTROL VALVE - TAMPER			X	X					X	X			X
5 FIRE ALARM AC POWER FAILURE			X	X					X	X			X
6 FIRE ALARM SYSTEM LOW BATTERY			X	X					X	X			X
7 OPEN CIRCUIT					X	X			X				X
8 GROUND FAULT					X	X			X				X
9 NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X			X				X

FIRE ALARM MATRIX

FIRE ALARM DETAILS

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FIRE ALARM DETAILS
E601
ISSUE DATE 07-12-22

JOB #: GC-20-033

MANUFACTURER:		SQ. D.		MAIN OPTIONS REQUIRED						PANEL NAME:		A			
TYPE:		NQOD		MCB:		N/A		AMPS		LOCATION:		ELECT ROOM 119			
AIC RATING:		10		MLO:		200		AMPS		MOUNTING:		SURFACE			
VOLTS L-L:		120		S.E. RATED:		N/A				NEMA TYPE:		1			
VOLTS L-L:		208		GFI PROT:		N/A				WIDTH:		20.00 IN			
PHASE:		3		SHUNT TRIP:		N/A				DEPTH:		5.75 IN			
NOTES	CKT NO.	IDENTIFICATION	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			IDENTIFICATION	CKT NO.		
			A	B	C	TRIP	P	TRIP	A	B	C				
	1	RECEPT RM 103	R	0.80			20	1	1	20	0.20	0.32	L	LTG. ELECT. MECH ROOMS	2
	3	RECEPT RM 101, 103	R	0.80			20	1	1	20			L	LTG. RMS 101, 103, 109	4
	5	DISPLAY RM 103	E		1.00		20	1	1	20		0.11	L	LTG. RM 111, 112, EF-1, EF-2	6
	7	DISPLAY RM 103	E	1.00			20	1	1	20	0.26		L	LTG. LOBBY 100, CORRIDOR 107	8
	9	RECEPT RM 101	R		0.80		20	1	1	20		0.23	L	LTG. RM 108, 108A	10
	11	DISPLAY RM 101	E		1.00		20	1	1	20		0.23	L	LTG. RM 102, 105	12
	13	COPIER RM 109	E	1.50			20	1	1	20	0.08		L	LTG. COMM ROOM	14
	15	RECEPT RM 109	R		0.40		20	1	1	20		0.20	L	SIGN AT FRONT	16
	17	RECEPT RM 100, 107	R		1.20		20	1	1	20		1.00	R	RECEPT IT ROOM 106	18
	19	EWOC RM 107	E	1.00			20	1	1	20	1.00		R	RECEPT IT ROOM 106	20
	21	RECEPT RM 102	R		0.80		20	1	1	20		1.00	R	RECEPT IT ROOM 106	22
	23	RECEPT RM 105	R		1.00		20	1	1	20		1.00	R	RECEPT IT ROOM 106	24
	25	RECEPT RM 102, 105	R	0.80			20	1	1	20	1.00		E	FACP	26
	27	DISPLAY RM 102	E	1.00			20	1	1	20	0.20		E	FIRE BELL	28
	29	DISPLAY RM 108	E	1.00	1.00		20	1	1	20		.5	E	ATS CONTRIGEN START	30
	31	RECEPT RM 108	R	1.00			20	1	1	20	0.50		E	GEN BATT CHARGER	32
	33	RECEPT RM 108	R	1.20			20	1	1	20	1.50		E	GEN HEATER	34
	35	ICE MAKER RM 108	E		1.57		20	1	1	20		0.60	R	EXT RECEPT	36
	37	REFRIG RM 108	E	1.57			20	1	1	20			S	RECEPT RM 108	38
	39	MICROWAVE RM 108	E	1.20			20	1	1	20			S	SPARE	40
	41	WASHER	E	1.2			20	1	1	20	0.56		E	ENTRY GATE (IN)	42
	43	DRYER	E	2.5			20	1	1	20	0.56		E	ENTRY GATE (OUT)	44
	45	HAND DRYER RM 112	E	1.00	2.5		20	1	1	20		0.56	E	ENTRY GATE (OUT)	46
	47	HAND DRYER RM 111	E	1.00			15	1	1	30			E	ENTRY GATE (OUT)	48
	49	HAND DRYER RM 111	E	1.00			15	1	1	30			E	ENTRY GATE (OUT)	50
	51	RECEPT RM 111, 112, 118, 119	R		1		20	1	1	20			E	SURGE PROTECTION	52
	53	RECEPT RM 111, 112, 118, 119	R		1		20	1	1	20			E	SURGE PROTECTION	54

SUB FEED LUGS AS INDICATED, IF BLANK (NOT USED)

CONN. LOAD (KVA)	9.9	9.7	11.5
DEMAND FACTOR			
DEMAND LOAD (KVA)			
TOTAL CONNECTED KVA:	42.71		
TOTAL CONNECTED AMPS/PH:	119		
TOTAL DEMAND KVA:	40.92		
TOTAL DEMAND AMPS/PH:	114		

GENERAL NOTES:
a. PROVIDE ARC FLASH LABELING FOR THE PANEL IN ACCORDANCE WITH NFPA 70 & 70E AS SPECIFIED.

SCHEDULE NOTES:

MANUFACTURER:		SQ. D.		MAIN OPTIONS REQUIRED						PANEL NAME:		B			
TYPE:		NQOD		MCB:		N/A		AMPS		LOCATION:		ELECT ROOM 119			
AIC RATING:		10		MLO:		200		AMPS		MOUNTING:		SURFACE			
VOLTS L-L:		120		S.E. RATED:		N/A				NEMA TYPE:		1			
VOLTS L-L:		208		GFI PROT:		N/A				WIDTH:		20.00 IN			
PHASE:		3		SHUNT TRIP:		N/A				DEPTH:		5.75 IN			
NOTES	CKT NO.	IDENTIFICATION	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			IDENTIFICATION	CKT NO.		
			A	B	C	TRIP	P	TRIP	A	B	C				
	1	RECEPT RM 110	R	0.90			20	1	1	20	0.61		L	LTG. BAY (CLOSEST TO OFFICE)	2
	3	RECEPT RM 110	R	0.54			20	1	1	20		1.02	L	LTG. BAY	4
	5	RECEPT RM 110	R		0.36		20	1	1	20		0.82	L	LTG. BAY	6
	7	GFI EXTERIOR	R	1.08			20	1	1	20	1.02		L	LTG. BAY	8
	9	208V RECEPT. IN BAY (GFCI)	E	4.16			50 G	2	1	20		0.63	L	LTG. RM 110A, 116, 117	10
	11	208V RECEPT. IN BAY (GFCI)	E	4.16		4.16	50 G	2	1	20		0.26	L	LTG. LOCKER RMS	12
	13	208V RECEPT. IN BAY (GFCI)	E	4.16		4.16	50 G	2	1	20	0.20		L	LTG. EXTERIOR	14
	15	208V RECEPT. IN BAY (GFCI)	E	4.16		4.16	50 G	2	1	20	1.20		E	FP HEAT TRACE	16
	17	208V RECEPT. IN BAY (GFCI)	E	4.16		4.16	50 G	2	1	20	1.20		E	FP HEAT TRACE	18
	19	208V RECEPT. IN BAY (GFCI)	E	4.16		4.16	50 G	2	1	20	0.37		E	FP HEAT TRACE	20
	21	EF-4	H	1.90			30	1	3	20		0.37	E	BAY CEILING FAN	22
	23	EF-5	H		1.90		30	1	3	20		0.37	E	BAY CEILING FAN	24
	25	EF-6	H	0.31			15	1	3	20		1.60	E	BAY CEILING FAN	26
	27	EF-3	H		0.09		15	1	3	20		1.60	E	BAY CEILING FAN	28
	29	RECEPT LOCKER RMS	R	1.00			20	1	1	20	1.20		E	CAR LIFT	30
	31	HAND DRYER RM 114	E	1.00			15	1	3	20		2.00	E	CAR LIFT	32
	33	HAND DRYER RM 115	E	1.00			15	1	3	25		2.00	E	CAR LIFT	34
	35	RECEPT RM 116, 117	R		1.00		20	1	1	20	0.80		E	AIR COMPRESSOR	36
	37	EXTERIOR RECEPTS	R	0.40			20	1	1	20		2.00	E	AIR COMPRESSOR	38
	39	SPARE	S				20	1	1	20			S	SPARE	40
	41	SPARE	S				20	1	1	20			S	SPARE	42
	43	SPARE	S				20	1	1	20			S	SPARE	44
	45	SPARE	S				20	1	1	20			S	SPARE	46
	47	SPARE	S				20	1	1	20			S	SPARE	48
	49	SPARE	S				20	1	1	20			S	SPARE	50
	51	SPARE	S				20	1	3	30			E	SURGE PROTECTION	52
	53	SPARE	S				20	1	3	30			E	SURGE PROTECTION	54

SUB FEED LUGS AS INDICATED, IF BLANK (NOT USED)

CONN. LOAD (KVA)	12.0	11.9	12.6
DEMAND FACTOR			
DEMAND LOAD (KVA)			
TOTAL CONNECTED KVA:	55.29		
TOTAL CONNECTED AMPS/PH:	154		
TOTAL DEMAND KVA:	56.43		
TOTAL DEMAND AMPS/PH:	157		

GENERAL NOTES:
a. PROVIDE ARC FLASH LABELING FOR THE PANEL IN ACCORDANCE WITH NFPA 70 & 70E AS SPECIFIED.

SCHEDULE NOTES:
G- INDICATES GFCI CIRCUIT BREAKER

MANUFACTURER:		SQ. D.		MAIN OPTIONS REQUIRED						PANEL NAME:		C			
TYPE:		NQOD		MCB:		60		AMPS		LOCATION:		FUEL STATION			
AIC RATING:		10		MLO:		200		AMPS		MOUNTING:		SURFACE			
VOLTS L-L:		120		S.E. RATED:		N/A				NEMA TYPE:		3R			
VOLTS L-L:		208		GFI PROT:		NO				WIDTH:		20.00 IN			
PHASE:		3		SHUNT TRIP:		N/A				DEPTH:		5.75 IN			
NOTES	CKT NO.	IDENTIFICATION	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			IDENTIFICATION	CKT NO.		
			A	B	C	TRIP	P	TRIP	A	B	C				
	1	FUEL PUMP	E	0.66			20	1	1	20	0.40		R	POST RECEPTACLE	2
	3	FUEL PUMP	E	0.66			20	1	1	20	0.40		R	POST RECEPTACLE	4
	5	FUEL PUMP	E		0.66		20	1	1	20		0.40	R	POST RECEPTACLE	6
	7	GFI EXTERIOR	R	0.40			20	1	1	20	0.40		R	POST RECEPTACLE	8
	9	SPARE	S				20	1	1	20			S	SPARE	10
	11	SPARE	S				20	1	1	20			S	SPARE	12
	13	SPARE	S				20	1	1	20			S	SPARE	14
	15	SPACE ONLY	S										S	SPACE ONLY	16
	17	SPACE ONLY	S										S	SPACE ONLY	18
	19	SPACE ONLY	S										S	SPACE ONLY	20
	21	SPACE ONLY	S				3	20					E	SURGE PROTECTION	22
	23	SPACE ONLY	S										E	SURGE PROTECTION	24

SUB FEED LUGS AS INDICATED, IF BLANK (NOT USED)

CONN. LOAD (KVA)	1.1	0.7	0.7
DEMAND FACTOR			
DEMAND LOAD (KVA)			
TOTAL CONNECTED KVA:	3.98		
TOTAL CONNECTED AMPS/PH:	11		
TOTAL DEMAND KVA:	3.98		
TOTAL DEMAND AMPS/PH:	11		

GENERAL NOTES:
a. PROVIDE ARC FLASH LABELING FOR THE PANEL IN ACCORDANCE WITH NFPA 70 & 70E AS SPECIFIED.

SCHEDULE NOTES:

ELECTRICAL PANEL SCHEDULES

This item has been electronically signed and sealed by the individual named beside, using a dated Digital Signature, per F.A.C. Rule 61G15-23.004. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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A	B	C
-	-	-

REVISIONS

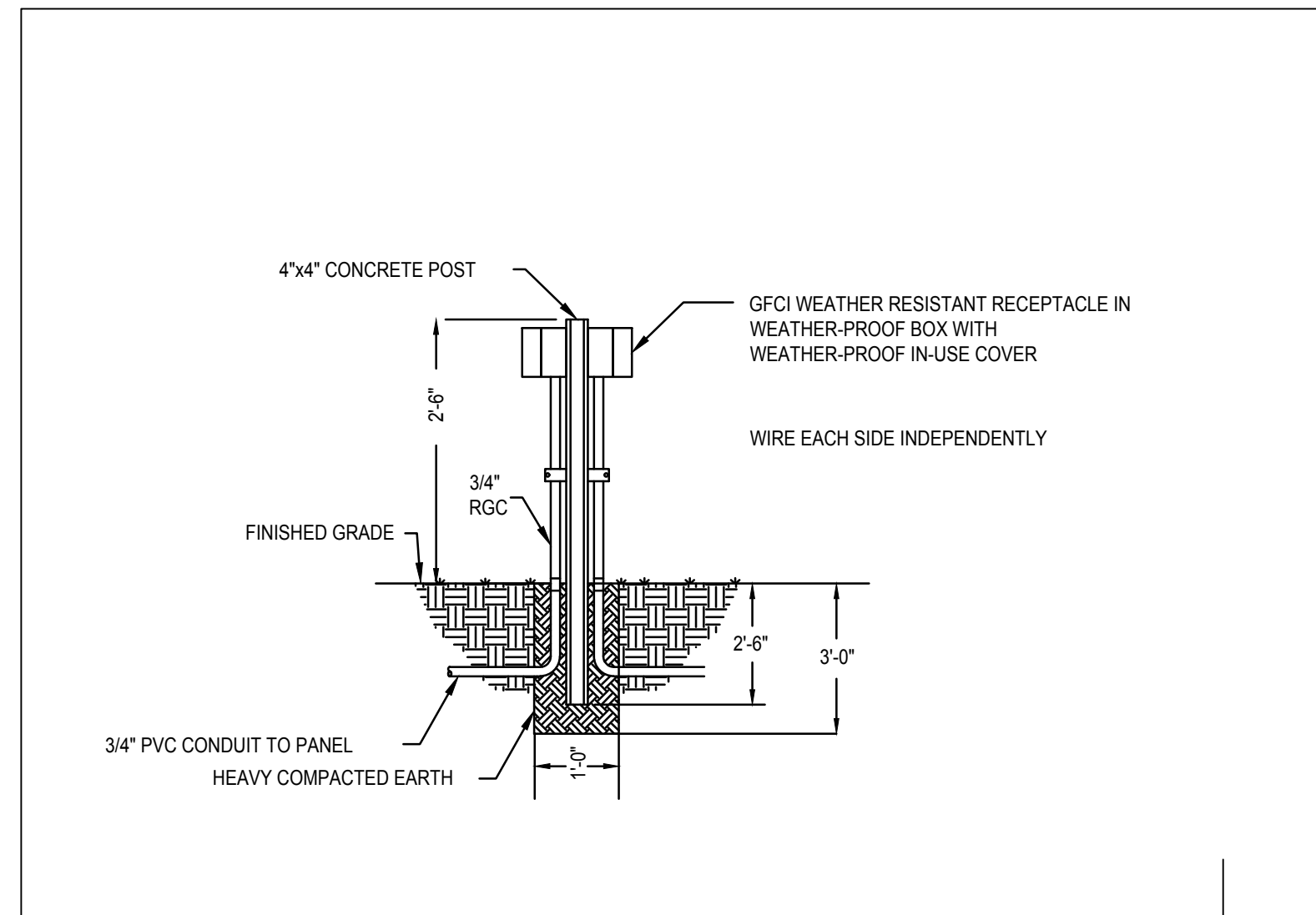
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2601 SPRING LAKE ROAD
FRUITLAND PARK, FLORIDA, 34731

BID SET

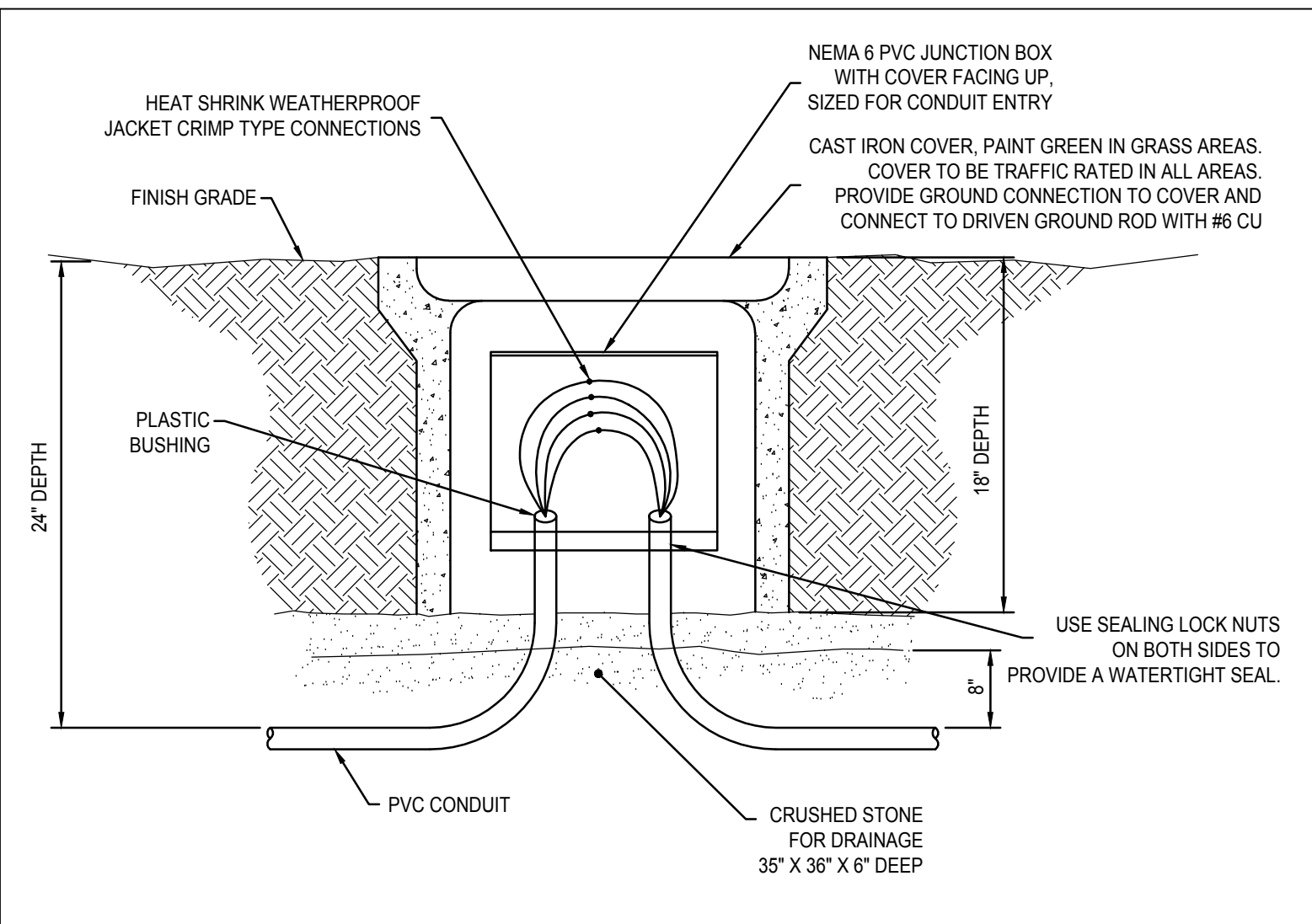
GatorSketch ARCHITECTS & PLANNERS
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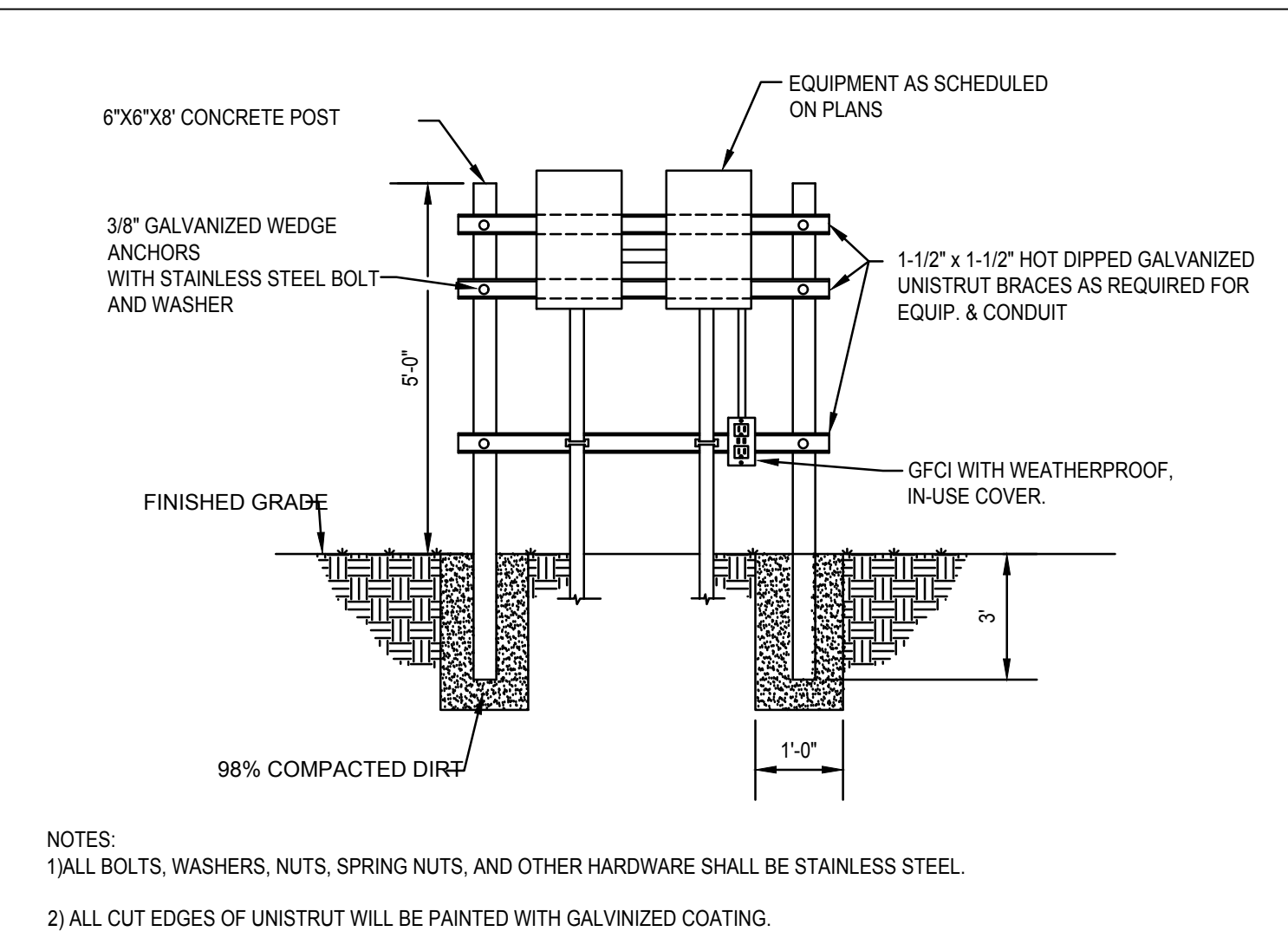
ELECTRICAL PANEL SCHEDULES
E701
ISSUE DATE 07-12-22



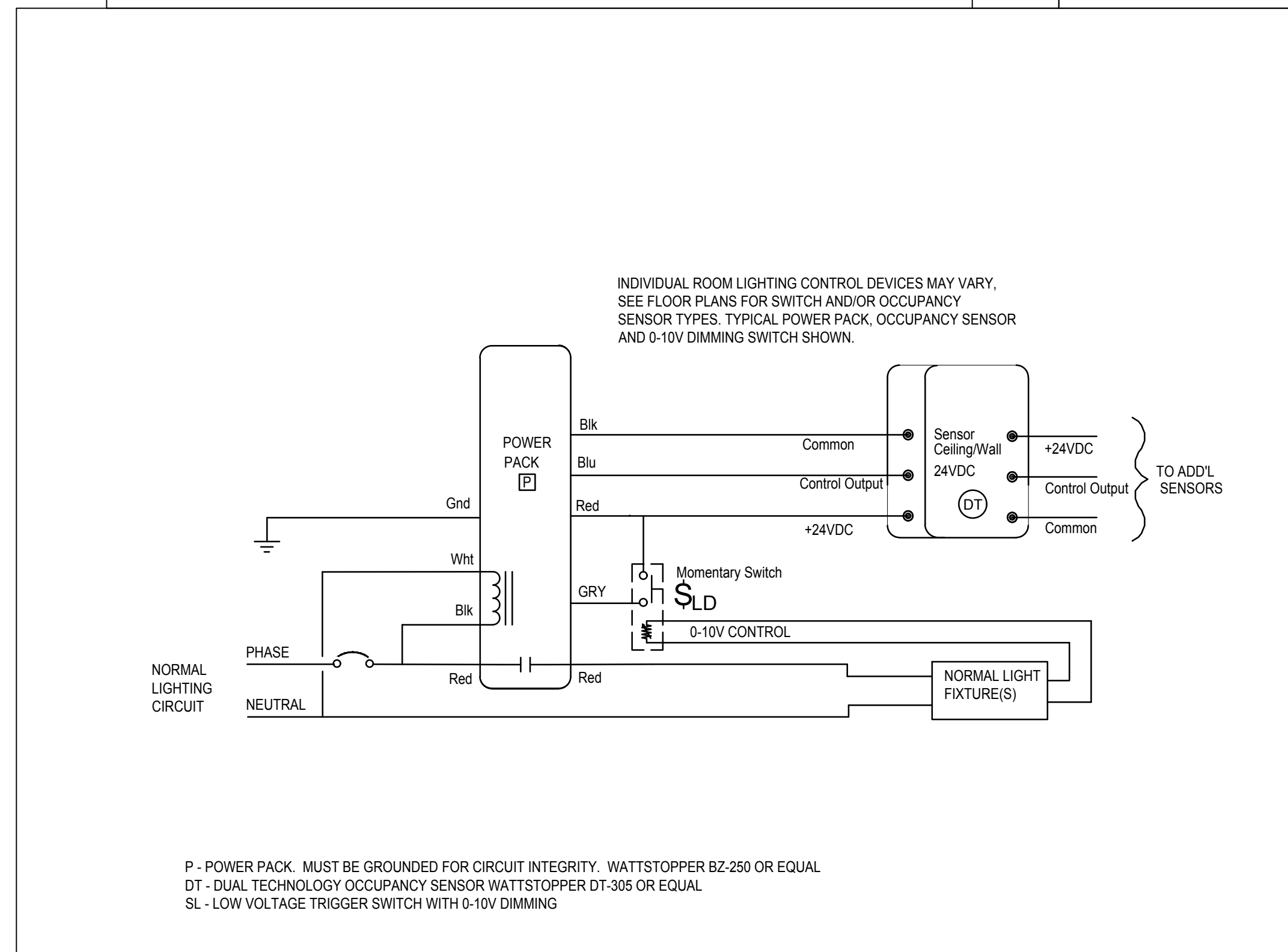
EXTERIOR RECEPTACLE POST DETAIL
No Scale



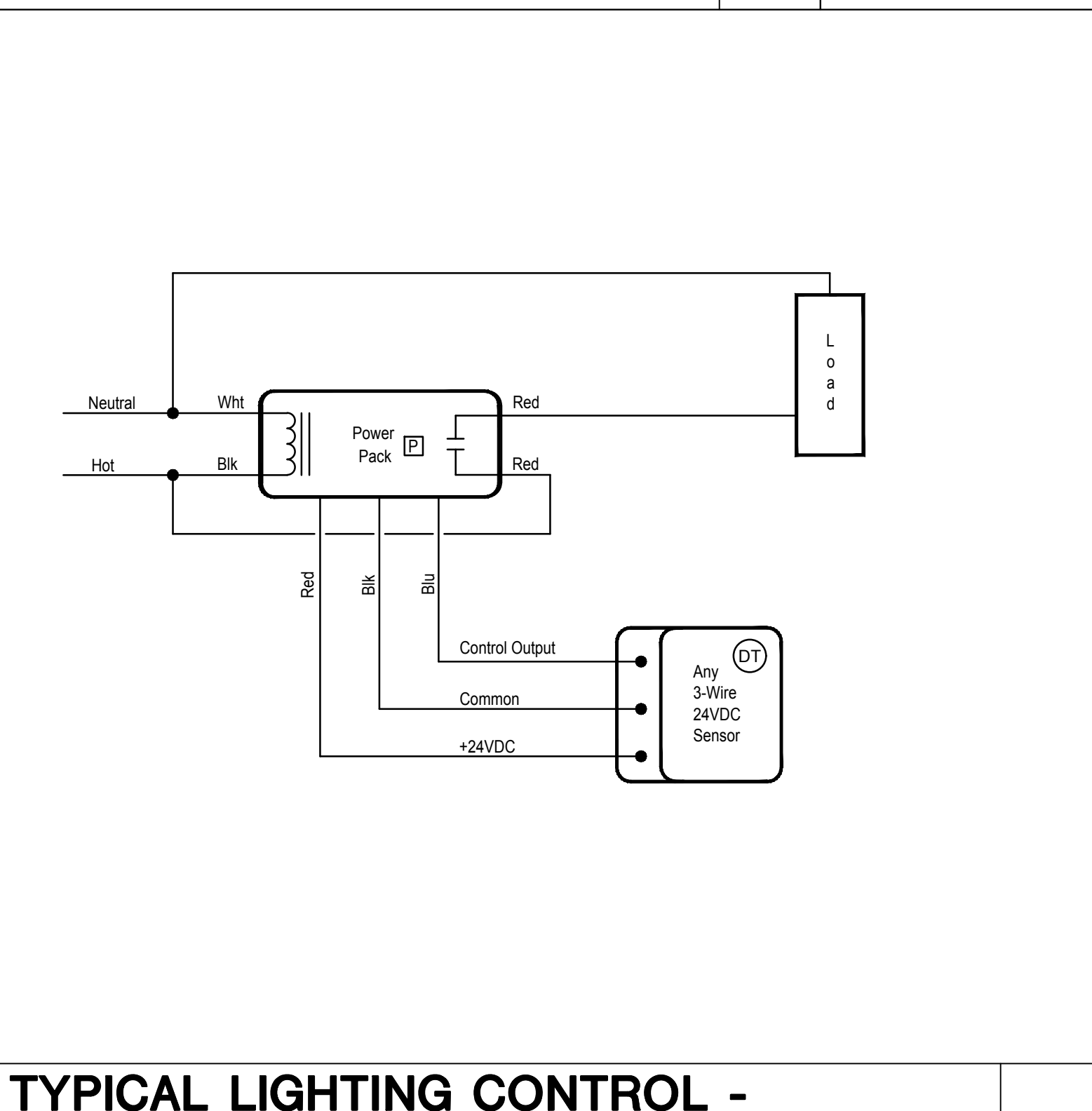
IN-GROUND PULLBOX
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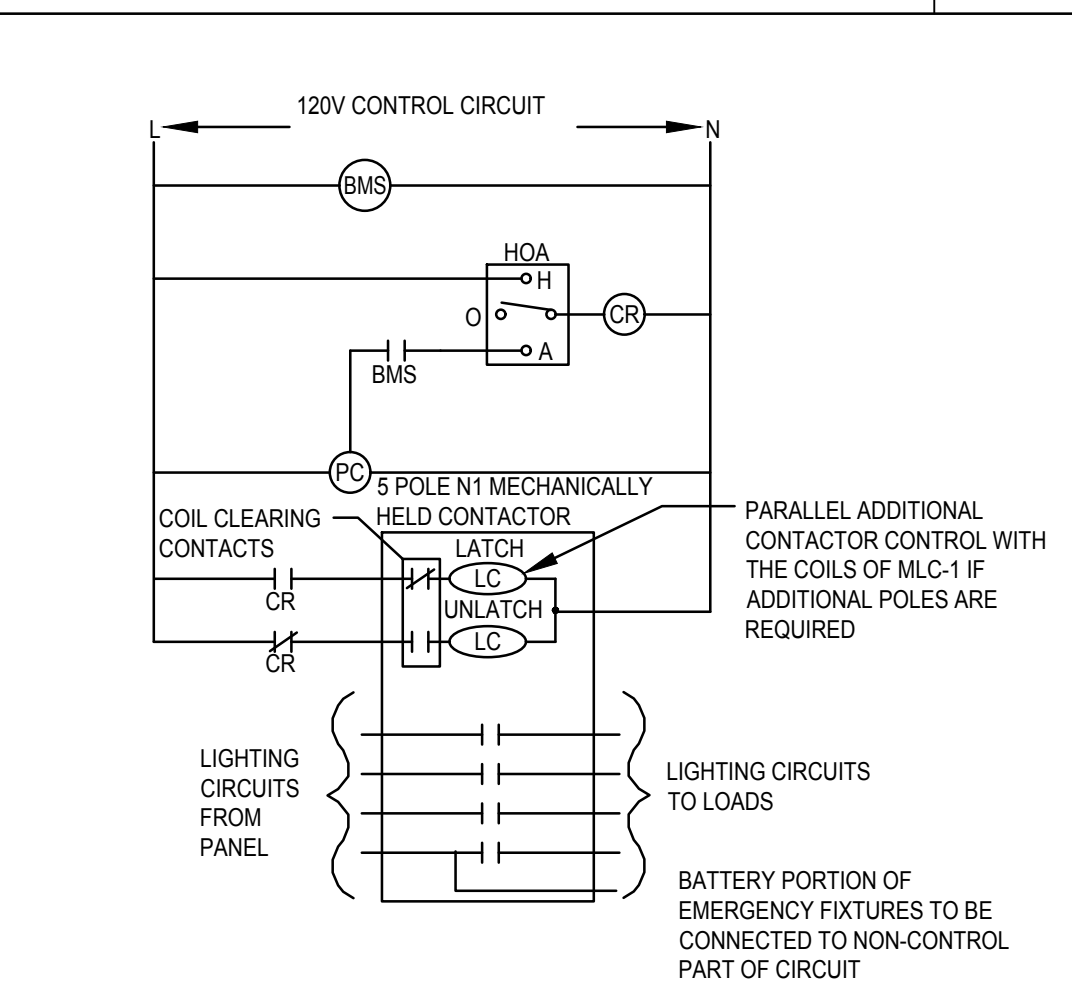
EXTERIOR EQUIPMENT RACK DETAIL
SCALE: NOT TO SCALE



TYPICAL ROOM CONTROL OCCUPANCY & DIMMING
No Scale



TYPICAL LIGHTING CONTROL - NO SWITCH
No Scale



PHOTOCELL ON-BUILDING MANAGEMENT OFF EXTERIOR LIGHTING CONTROL

- SCALE: NTS
- PC 120V SPST SPECIFICATION GRADE PHOTOELECTRIC CONTROL. TORK 2101 OR EQUAL. LOCATE ON ROOF ABOVE ELECTRICAL ROOM.
 - CR DPDT RELAY WITH 120V COIL AND 10A RATED CONTACTS. SQUARE D #8501KP12V20 WITH 8501NR51B OR EQUAL. LOCATE NEXT TO CONTACTOR.
 - HOA HEAVY DUTY OILTIGHTWATERTIGHT SELECTOR OR SWITCH-30MM ASSEMBLED CONTROL STATION IN TYPE 4 ENCLOSURE W/LEGEND. SQUARE D CLASS 9001 KYK111 OR EQUAL. LOCATE NEXT TO CONTACTOR.
 - LC 4P MECHANICALLY HELD LIGHTING CONTACTOR WITH 120V COIL. CONTACTS TO BE RATED 20A CONTINUOUS FOR TUNGSTEN AND BALLAST LIGHTING. SQUARE D CLASS 8903 SMG13W02. LOCATE IN ELECTRICAL ROOM AS CLOSE TO PANEL FEEDING CONTROLLED CIRCUITS.
 - BMS BUILDING MANAGEMENT CONTROL. COORDINATE WITH MECHANICAL CONTROLS SCOPE OF WORK.

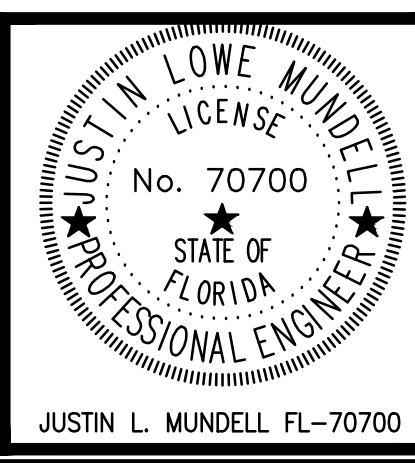
DETAIL NOTES:

- a. PROVIDE APPROPRIATE UL LISTED ASSEMBLY IF MORE THAN ONE DEVICE IS INSTALLED IN AN ENCLOSURE.
- b. PROVIDE SEPARATE CONTACTORS FOR 277V AND 120V LIGHTING CIRCUITS.

PC ON / BMS OFF DETAIL
No Scale

ELECTRICAL DETAILS

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ELECTRICAL DETAILS

E801

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