

THE CITY OF FOLEY

1ST RESPONDERS HURRICANE SHELTER

NORTH POPLAR STREET
FOLEY, ALABAMA 36535

(LOCATION:
30.416941, -87.675895)

GENERAL CODE DATA:

Building and Fire Codes used in design:

- 2021 INTERNATIONAL BUILDING CODE
- 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2023 NATIONAL ELECTRICAL CODE (NFPA70)
- 2021 INTERNATIONAL FUEL GAS CODE
- 2021 INTERNATIONAL FIRE CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- 2020 ICC/NSSA-500 STANDARD FOR THE DESIGN & CONSTRUCTION OF STORM SHELTERS
- FEMA P-361, APRIL 2021 FOURTH EDITION

CODE INFORMATION

Construction Description:

☒ New Construction ☐ Renovation (Existing Bldg.) ☐ Tenant Build-out
☐ Alteration ☐ Addition ☐ Adaptive Re-Use

BUILDING DATA:

Construction Type ☐ IA ☐ IB ☐ IIA ☒ IIB ☐ IIA ☐ IIB

Mixed Construction ☐ IV ☐ VA ☐ VB

Sprinklers ☐ Yes ☒ No (If Yes, Types ☐)

System Type ☐ 13 ☒ 13R ☐ 13D

Standpipes ☐ Yes ☐ No ☐ Wet ☐ Dry Class ☐ Combined

Building Height ☐ ±15 Ft. or (☐ Unlimited, per ☐)

Number of Stories ☐ 1 or (☐ Unlimited, per ☐)

Mezzanine ☐ Yes ☒ No

High Rise ☐ Yes ☒ No

Atrium ☐ Yes ☒ No

Basement ☐ Yes ☒ No

OCCUPANCY CLASSIFICATION:

☒ Assembly 303 ☐ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5

☐ Business 304

☐ Education 305

☐ Factory Industrial ☐ F-1 ☐ F-2

☐ Institutional 308 ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4

☐ (I-3 Use Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5)

☐ Mercantile 309

☐ Residential 310 ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4

☐ Storage 311 ☐ S-1 ☐ S-2 ☐ High-piled

☐ Utility and Miscellaneous 312

☐ Parking Garage 406.2 ☐ Open 406.3 ☐ Enclosed 406.4 ☐ Repair 406.6

Diagonal Rule

Meets 1015.2.1 ☒ Yes ☐ No ☐ N/A

Travel Distance (Table 1016.1)

Allowable Travel Distance 200 Ft.

Actual Travel Distance (Maximum) 143'-4"

ALLOWABLE AREA AND HEIGHT-TABLE 506.2

Allowable Area

Allowable area: 9,500 SF

Actual area: 9,368 SF TOTAL

Allowable Height

Allowable height 55 FT.

Allowable no. of stories 2

Actual building height ± 15'-4"

Actual no. of stories 1

OCCUPANT LOAD

Table 1004.5Maximum Floor Area Allowances Per Occupant

Assembly Area: 4,124 S.F. @ 15 (net) = 274 Occupants

Business Area: 1,875 S.F. @ 150 (gross) = 12 Occupants

Kitchen Area: 576 S.F. @ 200 (gross) = 2 Occupants

Total Occupancy: = 288 Occupants

(**see life safety plan for ICC-500 shelter use occupant density)

Life Safety Systems

1006.1 Emergency Lighting: ☒ Yes ☐ No ☐ N/A

1011 Exit Signs: ☒ Yes ☐ No ☐ N/A

907 Fire Alarm: ☒ Yes ☐ No ☐ N/A

907.2.6.2.3 Smoke Detection Systems: ☒ Yes ☐ No ☐ N/A

1008.1.10 Panic Hardware: ☒ Yes ☐ No ☐ N/A

EXIT REQUIREMENTS:

Exit Access (1014 & Table 1021.1)

No. of exits required: 2

No. of exits furnished: 2

Means of egress width (Table 1005.1)

Units of Exit required: 12'-0"

Units of Exit furnished: 14'-4"

Stair width units required: n/a

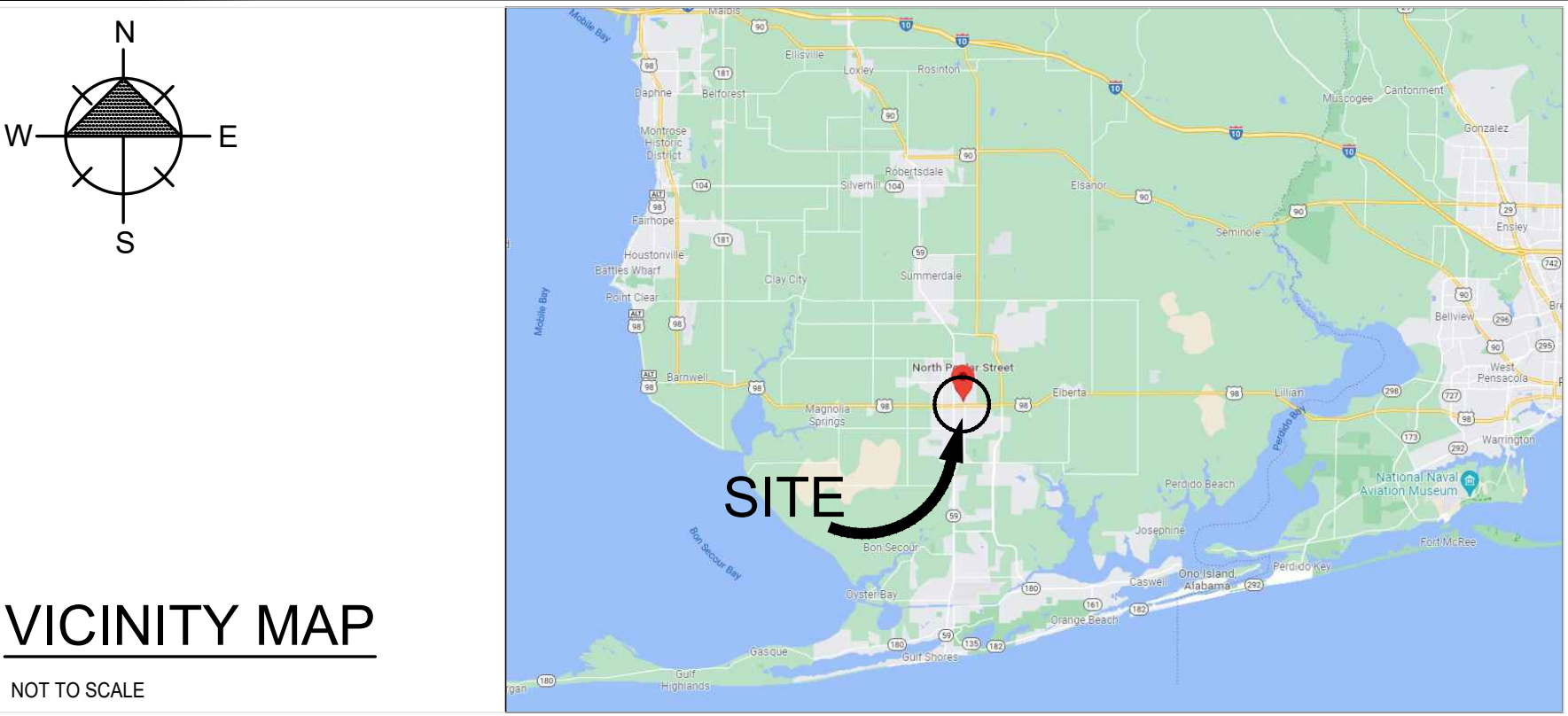
Stair width units provided: n/a

PLUMBING FIXTURE CALCULATION:

CLASSIFICATION: ASSEMBLY (A-3)

Occupant Load: 288

		REQUIRED	PROVIDED
MALE WATER CLOSETS/URINALS:	1 PER 125	2	3
FEMALE WATER CLOSETS:	1 PER 65	3	3
UNISEX WATER CLOSETS:	N/A	-	-
MALE LAVATORIES:	1 PER 200	1	2
FEMALE LAVATORIES:	1 PER 200	1	2
UNISEX LAVATORIES:	N/A	-	-
TOTAL WATER CLOSETS		5	6
TOTAL LAVATORIES:		2	4
DRINKING FOUNTAINS:	1 PER 500	1	2
SERVICE SINKS:	1	1	1



DRAWING INDEX

GENERAL

G100.0	COVER SHEET, DRAWING INDEX AND CODE ANALYSIS
G100.1	GENERAL NOTES/ADA SPECIFICATIONS
AS100	ARCHITECTURAL SITE PLAN

CIVIL

C1	EXISTING CONDITIONS
C2	SITE PLAN
C3	GEOMETRIC LAYOUT AND UTILITIES PLAN
C4	GRADING AND DRAINAGE PLAN
C5	CIVIL CONSTRUCTION NOTES
C6	CIVIL CONSTRUCTION DETAILS
C7	CIVIL CONSTRUCTION DETAILS
C8	EROSION CONTROL PLAN
C9	EROSION CONTROL DETAILS

STRUCTURAL

S0.1	GENERAL NOTES AND SCHEDULES
S0.2	QUALITY ASSURANCE
S0.3	SPECIAL INSPECTIONS
S0.4	SPECIAL INSPECTIONS
S1.1	FOUNDATION PLAN
S1.2	ROOF FRAMING PLAN
S1.3	CONCRETE TOPPING PLAN
S2.1	BUILDING SECTIONS
S3.1	SECTIONS AND DETAILS
S3.2	SECTIONS AND DETAILS
S3.3	SECTIONS AND DETAILS
S3.4	SECTIONS AND DETAILS

ARCHITECTURAL

A100.1	DIMENSIONED FLOOR PLAN
A100.2	ARCHITECTURAL FLOOR PLAN
A100.3	ENLARGED FLOOR PLANS
A101.1	REFLECTED CEILING PLAN
A102.1	ROOF PLAN
A103.1	LIFE SAFETY PLAN
A200.1	EXTERIOR ELEVATIONS
A201.1	INTERIOR ELEVATIONS
A201.2	MILLWORK DETAILS
A300.1	BUILDING SECTIONS
A301.1	EXTERIOR WALL SECTIONS
A302.1	INTERIOR WALL SECTIONS
A302.2	GATE DETAILS
A500.1	DOOR AND WINDOW SCHEDULES AND DETAILS
A600.1	FINISH SCHEDULES AND DETAILS

MECHANICAL

M1.0	HVAC NOTES AND SCHEDULES
M1.1	HVAC NOTES AND SCHEDULES
M2.0	HVAC PLAN
M2.1	HVAC PIPING PLAN
M3.0	HVAC DETAILS
M3.1	HVAC DETAILS

ELECTRICAL

E100	ELECTRICAL NOTES & LEGEND
ES101	ELECTRICAL SITE PLAN
ES102	SITE PHOTOMETRIC PLAN
E101	LIGHTING PLAN
E102	POWER AND AUXILIARY PLAN
E200	ELECTRICAL RISER AND SCHEDULES
E201	ELECTRICAL DETAILS

PLUMBING

P1.0	PLUMBING NOTES AND SCHEDULES
P2.0	PLUMBING PLAN
P2.1	SANITARY PLAN
P3.0	RISERS AND DETAILS
P3.1	PLUMBING DETAILS

PROJECT CONTACTS

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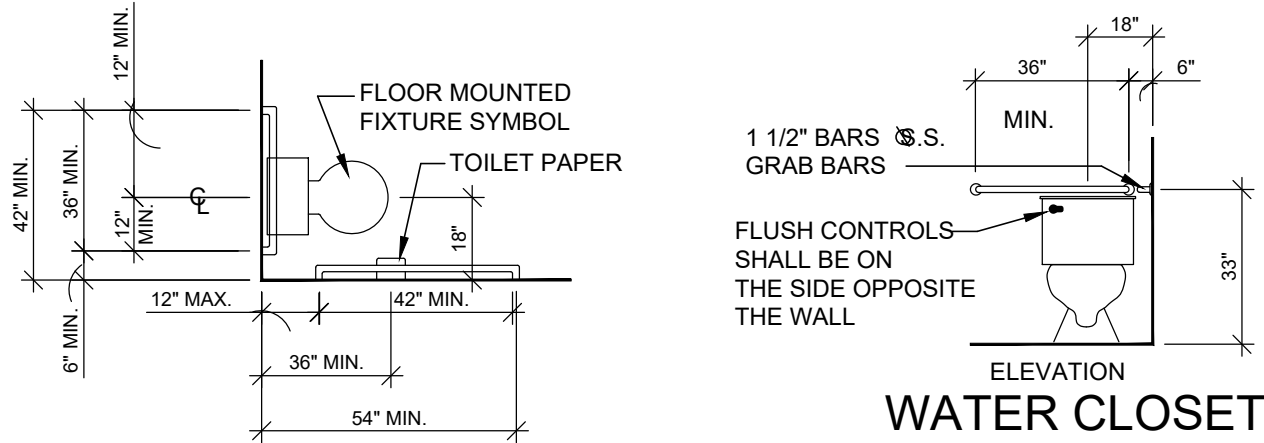
TYPICAL ABBREVIATIONS

(A) ABV ABOVE AFF ABOVE FINISHED FLOOR ACC ACCESS ACOUS ACOUSTIC ACR ACRYLIC ACT ACOUSTICAL CEILING TILE ADJ ADJACENT ADJT ADJUSTABLE ADD ADDENDUM ADH ADHERED AGG AGGREGATE AHU AIR HANDLING UNIT AC AIR CONDITIONING ACU AIR CONDITIONING UNIT ALT ALTERNATE ALUM ALUMINUM ANCH ANCHOR ANOD ANODIZED APPROX APPROXIMATE ARCH ARCHITECT A D AREA DRAIN ASPH ASPHALT AUTO AUTOMATIC AUX AUXILIARY	(D) DP DAMPPROOFING DKG DECKING DEG DEGREE DEM DEMOLISH DMT DEMOUNTABLE DEP DEPRESSED DTL DETAIL DIAG DIAGONAL DIA DIAMETER DIFF DIFFUSER DIM DIMENSION DISP DISPENSER DO DITTO DIV DIVIDER DR DOOR DBL DOUBLE D A DOUBLE ACTING DT A DOVETAIL ANCHOR DN DOWN D S DOWNSPOUT D DRAIN DT DRAIN TILE DWR DRAWER DWG DRAWING DF DRINKING FOUNTAIN	(G) GA GAUGE GALV GALVANIZED GI GALVANIZED IRON GEN GENERAL GL GLASS GCMU GLAZED CONCRETE MASONRY UNIT GFCI GROUND FAULT CIRCUIT INTERRUPT G S T GRADE GR GR GRN GRANITE GRL GRAVEL GRT GROUT GWB GYPSUM WALLBOARD GYP GYPSUM	(H) HDR HANDRAIL HDPC/HC HANDICAPPED HDNR HARDNER HDW HARDWARE HDWD HARDWOOD HD HEAD HTG HEATING HVAC HEATING/VENTILATION/AIR CONDITIONING HT HEIGHT HEX HEXAGONAL H HIGH HM HOLLOW METAL HK HOOK HORIZ HORIZONTAL HB HOSE BIBB HWH HOT WATER HEATER HR HOUR H PT HIGH POINT	(M) MACH MACHINE M H MANHOLE MFD MANUFACTURED MFR MANUFACTURER MRB MARBLE MAS MASONRY M O MASONRY OPENING MAT MATERIAL MAX MAXIMUM MSL MEAN SEA LEVEL MECH MECHANICAL MED MEDIUM MBR MEMBER MEMB MEMBRANE M MEN MTL METAL MEZZ MEZZANINE MWK MILLWORK MIN MINIMUM MR MIRROR MISC MISCELLANEOUS MOD MODULAR MLD MOLDING MTD MOUNTED MOV MOVABLE MUL MULLION	(N) NL NAILABLE NAT NATURAL NOM NOMINAL N NORTH NIC NOT IN CONTRACT NTS NOT TO SCALE NO NUMBER	(O) OC ON CENTER OPNG OPENING OPP OPPOSITE OZ OUNCE OD OUTSIDE DIAMETER OH OPPOSITE HAND OHD OVERHEAD OFF OFFICE	(P) PG PAGE PNT PAINT PNL PANEL PB PANIC BAR PAR PARALLEL PK PARK PTN PARTITION PVMT PAVEMENT PERF PERFORATE PERIM PERIMETER PERP PERPENDICULAR PLAS PLASTER PLYWD PLYWOOD PVC POLYVINYL CHLORIDE PE PORCELAIN ENAMEL PTC POST TENSIONED CORNET PSF POUNDS PER SQUARE FOOT PIP POURED IN PLACE PCC PRECAST CONCRETE PREFAB PREFABRICATED PREFIN PREFINISHED PRF REFORMED PSC PRESTRESSED CONCRETE PROJ PROJECT PROP PROPERTY PT PRESSURE TREATED	(Q) QT QUARRY TILE	(R) R RADIUS RL RAILING RWC RAINWATER CONDUCTOR RECD RECEIVED REQD REQUIRED RWD REDWOOD REF REFERENCE RFL REFLECTED REINF REINFORCEMENT RES RESILIENT	(S) SF GL SAFETY GLASS S S SANITARY SEWER SC SCALE SCR SCREW SCHD SCHEDULE SCN SCREEN SEAL SEALANT SECT SECTION SHT SHEET SHWR SHOWER SIM SIMILAR SKL SKYLIGHT SLV SLEEVE SM SMOOTH S SOUTH SPKR SPEAKER SPEC SPECIFICATIONS SPRLR SPRINKLER SQ SQUARE S STL STAINLESS STEEL STD STANDARD STA STATION STL STEEL STIFF STIFFENER STOR STORAGE ST STREET STRUCT STRUCTURAL SUSP SUSPENDED SW SWITCH SYM SYMMETRICAL SYN SYNTHETIC SYS SYSTEM S F SQUARE FEET	(T) TEL TELEPHONE TV TELEVISION TER TERRAZZO THK THICK THRES THRESHOLD TOL TOLERANCE T&G TONGUE & GROOVE T/B TOP AND BOTTOM TOC TOP OF CONCRETE TOM TOP OF MASONRY T/R TOP OF RAIL TOS TOP OF STEEL TOW TOP OF WALL TR THREAD TYP TYPICAL TMPD TEMPERED	(U) UC UNDERCUT UNF UNFINISHED UL UNDERWRITERS LABORATORIE UTIL UTILITY U.N.O. UNLESS NOTED OHTERWISE	(V) VB VAPOR BARRIER VAR VARNISH VTR VENT THROUGH ROOF VENT VENTILATION VRM VERMICULITE VERT VERTICAL VEST VESTIBULE VCT VINYL COMPOSITION TILE	(W) WH WALL HYDRANT WC WATER CLOSET WP WATERPROOFING WGT WEIGHT WWF WELDED WIRE FABRIC WF WIDE FLANGE W WEST, WIDE, WATER WOM WOMEN WIN WINDOW WI WITH W/O WITHOUT WD WOOD
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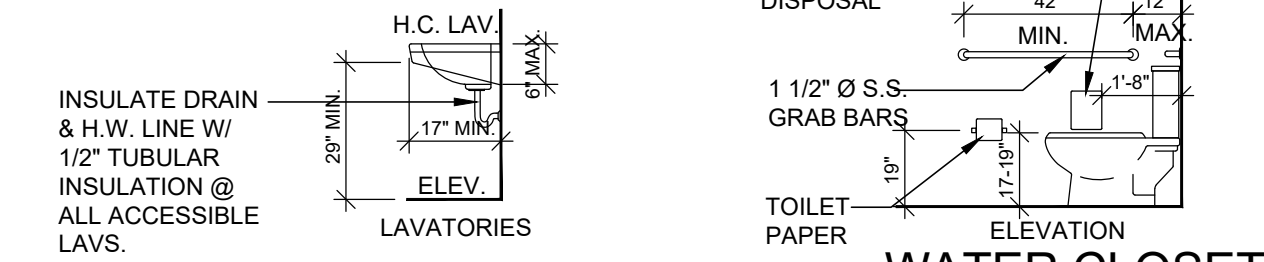
ADA NOTES

- ANY SLOPE ALONG AN ACCESSIBLE ROUTE GREATER THAN 1:20 SHALL BE CONSIDERED A HANDICAPPED RAMP. AND PROVIDED WITH THE REQUIRED DEVICES INCLUDING BUT NOT LIMITED TO, RAILS AND CURBS.
- ALL HANDICAPPED RAMPS SHALL SLOPE A MAXIMUM OF 1:12 AND CROSS SLOPES SHALL BE A MAXIMUM OF 1:50.
- ALL WATER CLOSET FLUSH VALVES SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL. UTILIZE 5 LBS. OF FORCE OR LESS TO OPERATE
- PRIOR TO INSTALLATION NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN THE REQUIRED MOUNTING HEIGHT AND OTHER EQUIPMENT OR MATERIAL. IF NOTIFICATION IS NOT MADE, AND INSTALLATION PROCEEDS THE INSTALLER SHALL REMOVE, PATCH, AND REPLACE THE UNIT AT HIS COST WHERE DIRECTED BY THE ARCHITECT.
- ALL CURB RAMPS SHALL MEET ADA SPECIFICATIONS.
- COAT HOOKS IN THE TOILET STALLS SHALL BE MTD. TO THE WALLS OF THE STALLS (NOT THE DOOR) AT 48" A.F.F. IN ACCESSIBLE STALLS AND 60" IN STANDARD STALLS. (STANDARD STALLS MAY HAVE HOOKS ON DOORS)
- ALL PANIC HARDWARE SHALL BE MTD. NO HIGHER THAN 48" A.F.F.
- ALL THRESHOLDS, FLOOR LEVEL CHANGES AND FLOOR TRANSITIONS SHALL NOT EXCEED 1/2" IN HEIGHT AND SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
- ALL LIGHT SWITCHES, VOLUME CONTROLS, AND THERMOSTATS IN PUBLIC AREAS SHALL BE MTD. NO HIGHER THAN 48" A.F.F.
- ALL INTERIOR DOORS SHALL REQUIRE A FORCE NO GREATER THAN 5 LBS PER SQ. FT. TO OPEN.
- ALL EXPOSED UNDERCOUNTER PIPING SHALL BE ENCLOSED IN PROTECTIVE COVERS TO PREVENT INJURY TO INDIVIDUALS REQUIRING THE USE OF ANY TYPE OF ACCESSIBILITY AID.
- SIGNS MARKING THE DISABLED PARKING SPACES SHALL BE INSTALLED SO THAT THE BOTTOM OF THE SIGN IS 8'-8" MINIMUM IN HEIGHT. ONE OR MORE SHALL IDENTIFY THE VAN ACCESSIBLE SPACE.
- IF WHEEL STOPS ARE USED ON THE SITE THEY SHALL BE PINNED W/ #3 REBAR MIN. 12" LONG SO THEY DO NOT MOVE AROUND.
- COAT HOOKS IN THE TOILET STALLS SHALL BE MTD. TO THE WALLS OF THE STALLS (NOT THE DOOR) AT 48" A.F.F. IN ACCESSIBLE STALLS AND 60" IN STANDARD STALLS. (STANDARD STALLS MAY HAVE HOOKS ON DOORS)

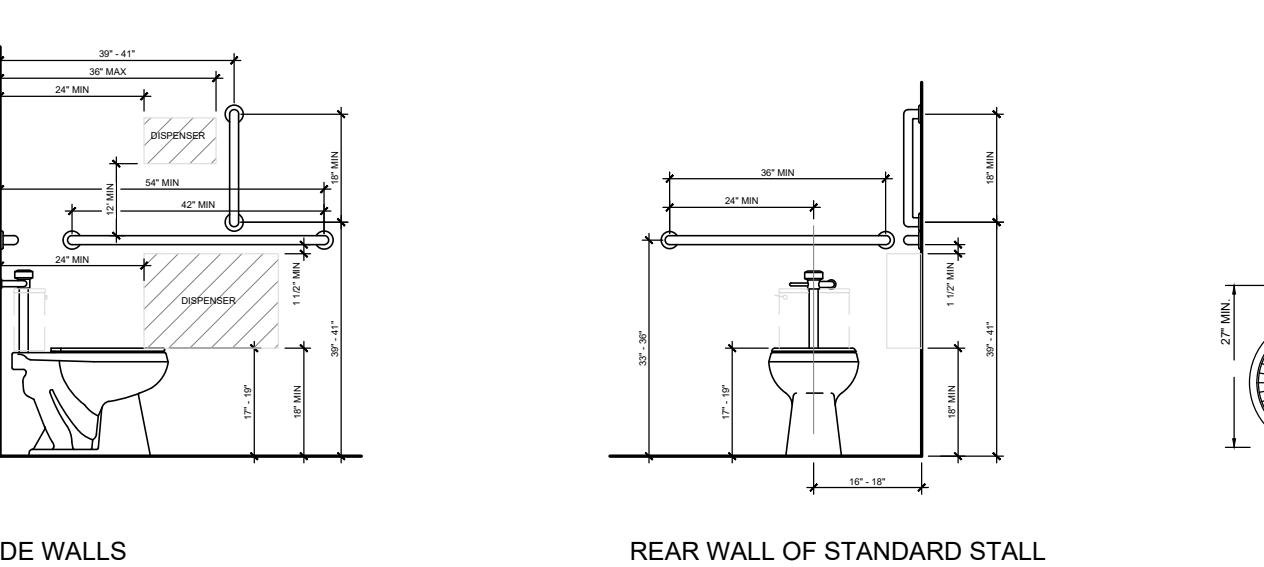
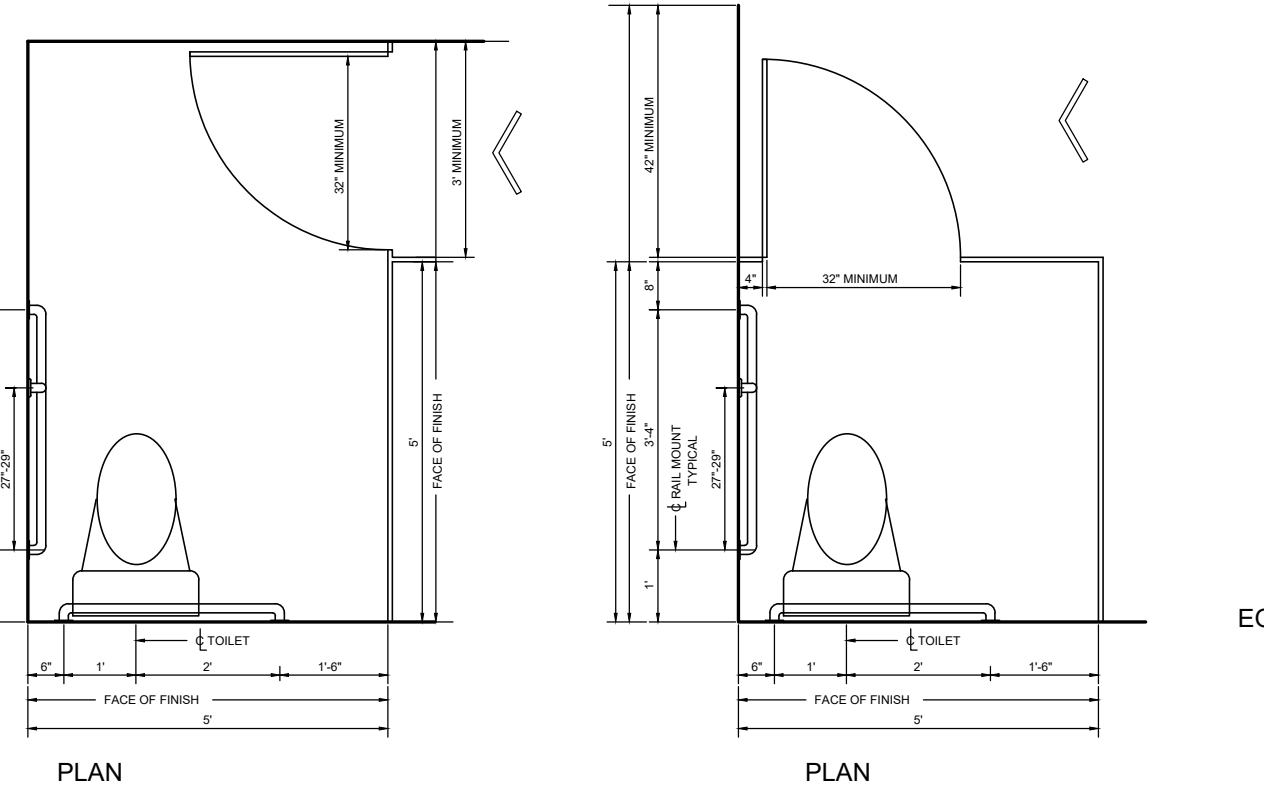
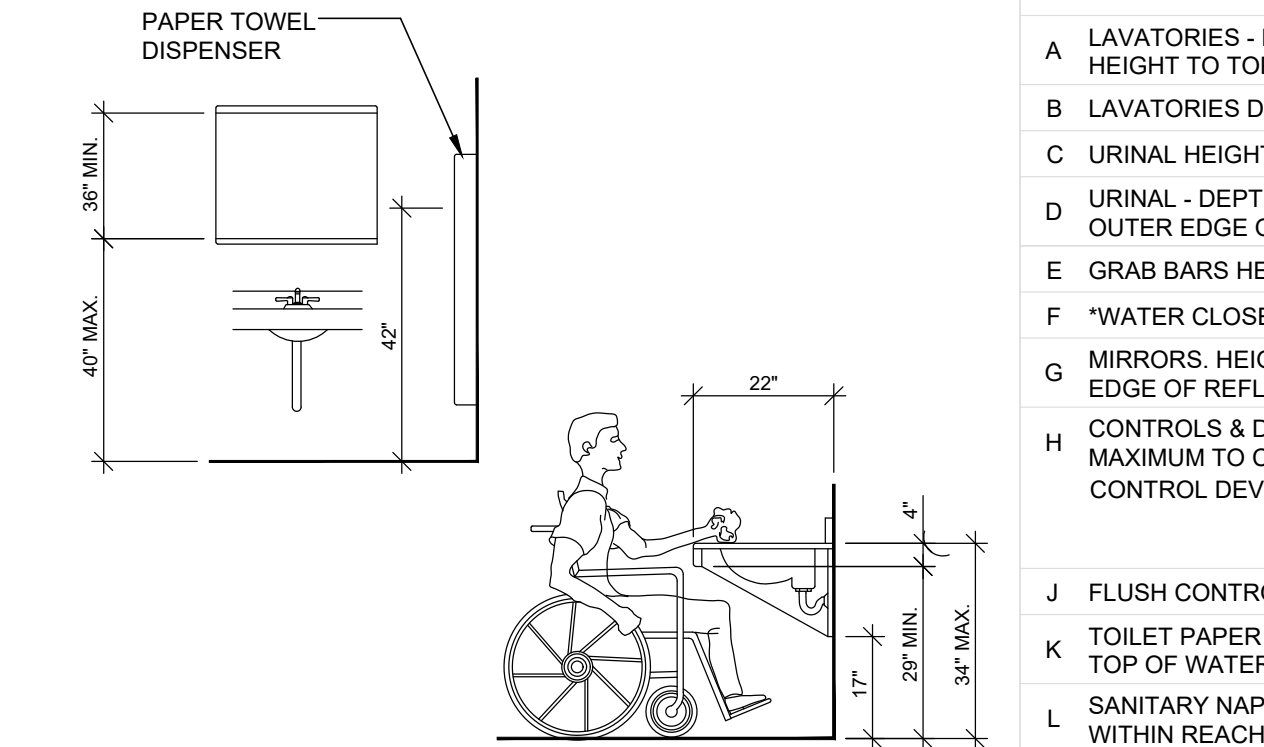
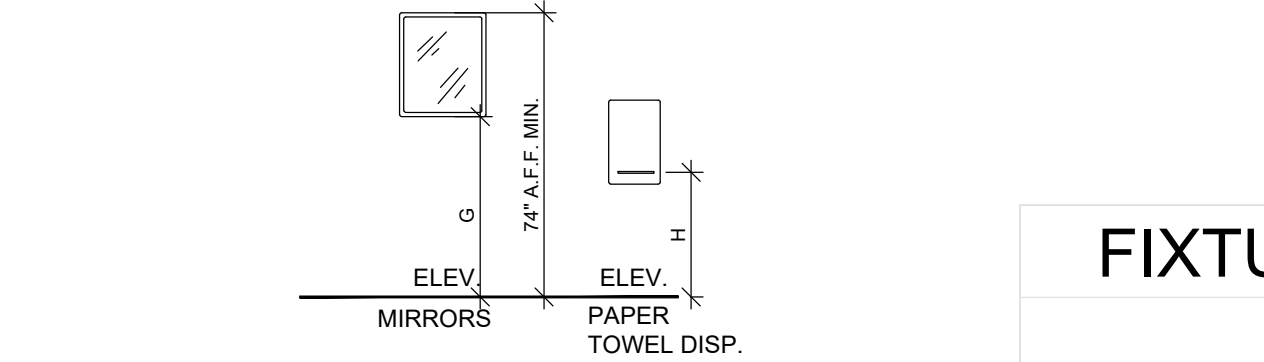
PLUMBING FIXTURES & ACCESSORIES



WATER CLOSET STALL



WATER CLOSET

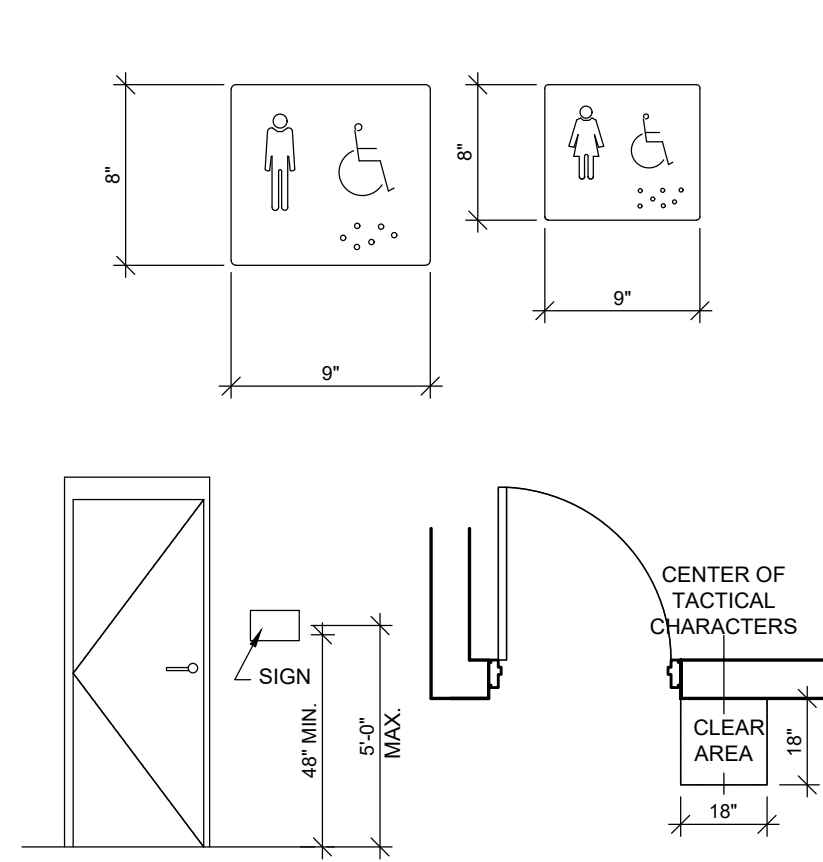


REAR WALL OF STANDARD STALL

LAVATORY CLEARANCES

PLAN AT DRINKING FOUNTAIN

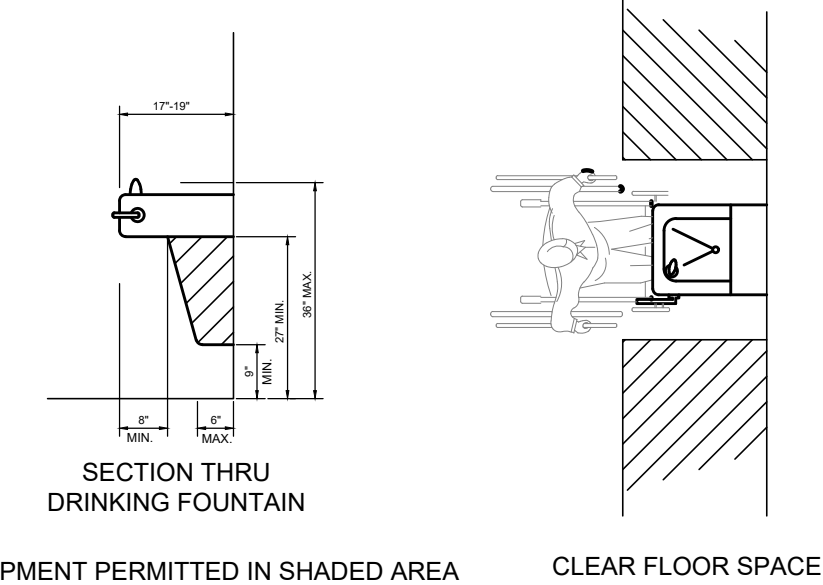
HANDICAPPED SIGNAGE



PROVIDE (1) SIGN PER ROOM COMPLYING WITH (ADA 703 SIGNS). SIGNS TO HAVE RAISED BRAILLE CHARACTERS AND PICTORIAL SYMBOL OF ACCESSIBILITY. MOUNT 4'-0" MIN. TO BOTTOM TO SIGN AND 5'-0" MAX. TO TOP OF ROOM NAME. SEE SPECIFICATIONS

FIXTURES/ ACCESSORIES

	HANDICAP MOUNTING HEIGHTS	STANDARD MOUNTING HEIGHTS
A LAVATORIES - HEIGHT TO BOTTOM OF APRON HEIGHT TO TOP OF RIM	29" MIN 34" MAX.	32" 36"
B LAVATORIES DEPTH FROM FINISHED WALL	17" MIN	24"
C URINAL HEIGHT TO TOP OF RIM	17" MAX	24"
D URINAL - DEPTH FROM FINISHED WALL TO OUTER EDGE OF ELONGATED RIM	14" MIN	19"
E GRAB BARS HEIGHT TO TOP OF BAR.	33"-36"	NO GRAB BARS
F *WATER CLOSET. HGT. TO TOP OF SEAT	17"-19"	15"
G MIRRORS. HEIGHT MAXIMUM TO BOTTOM EDGE OF REFLECTING SURFACE	40" MAX	ALIGN W/ H.C.
H CONTROLS & DISPENSERS: MAXIMUM TO CENTER LINE OF CONTROL DEVICE (TELEPHONES INCLUDED) FRONT APPROACH SIDE APPROACH	48" MAX. 54" MAX.	54" 54"
J FLUSH CONTROLS FOR WATER CLOSETS	44" MAX.	28-34"
K TOILET PAPER DISPENSERS (MOUNT BELOW TOP OF WATER CLOSET SEAT.)	19" MIN.	15"
L SANITARY NAPKIN DISPOSALS SHALL BE WITHIN REACH OF WATER CLOSET, BUT NOT TO INTERFERE WITH THE USE OF GRAB BARS.	19" MIN. 27" MAX	19"



EQUIPMENT PERMITTED IN SHADED AREA

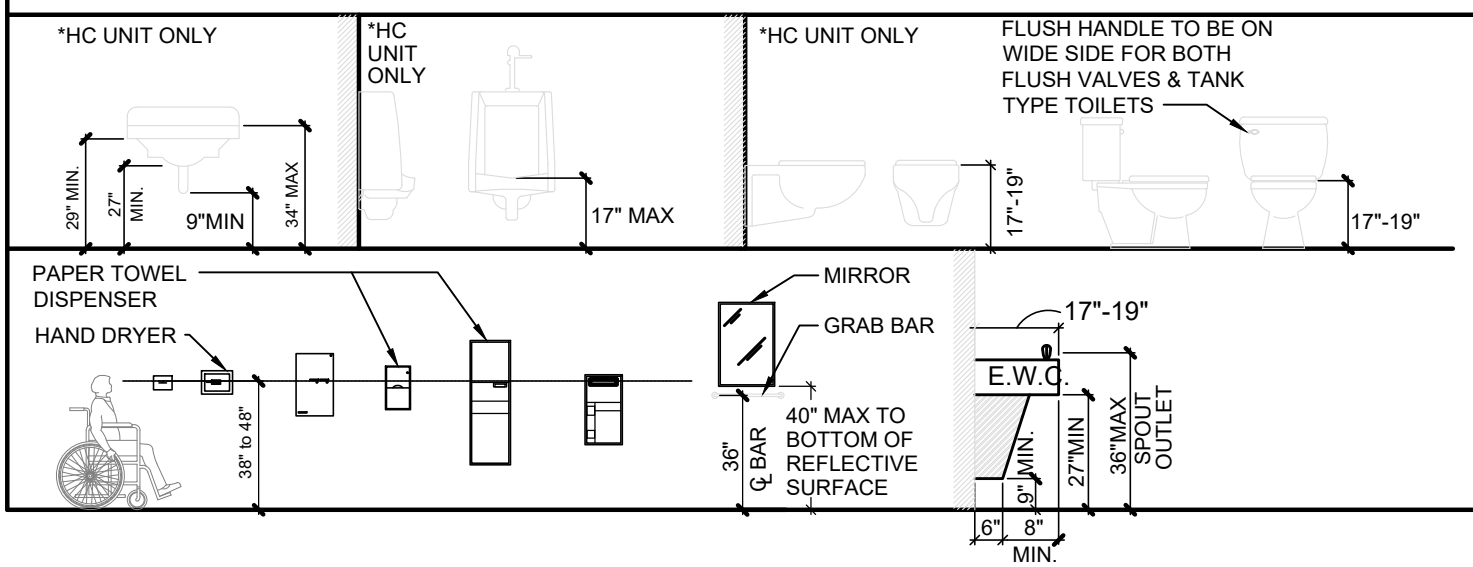
CLEAR FLOOR SPACE

SPOUT HEIGHT AND KNEE CLEARANCE

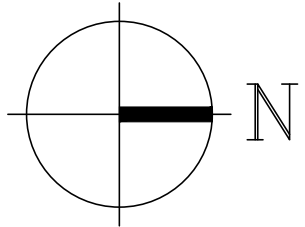
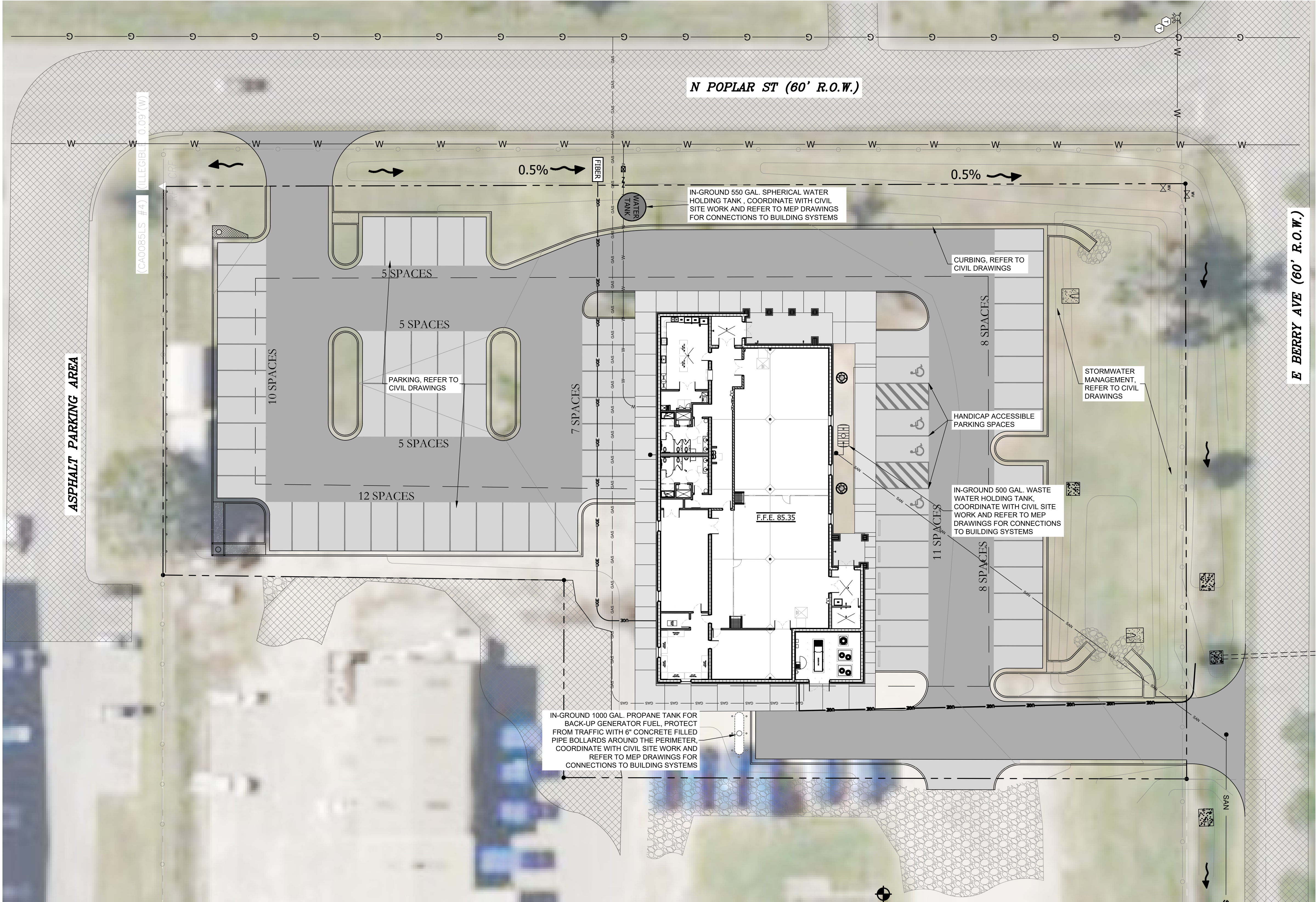
SECTION THRU DRINKING FOUNTAIN

PLAN AT DRINKING FOUNTAIN

ADA NOTES



8/19/2024 10:00:00 AM - z:\jobs 2024\24-027 city of foley first responder hurricane safe room\1 working drawings\03 construction documents\24-027_AS\00 0 Arch Site Plan.dwg



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ARCHITECTURAL SITE PLAN
SCALE: 1/32" = 1'

Property Size = +/-1.0 Acres

THE CITY OF FOLEY

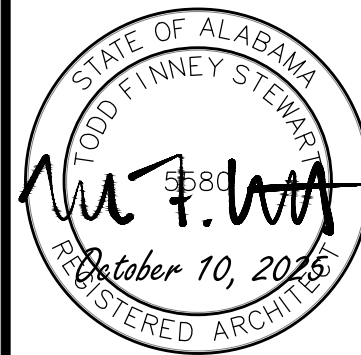
1ST RESPONDERS HURRICANE SHELTER

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FOLEY, ALABAMA 36535

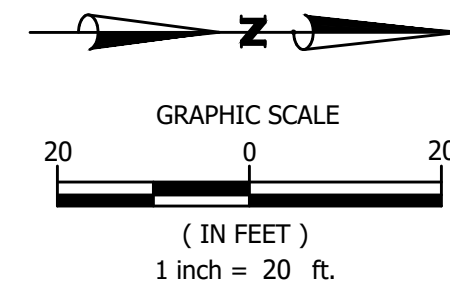
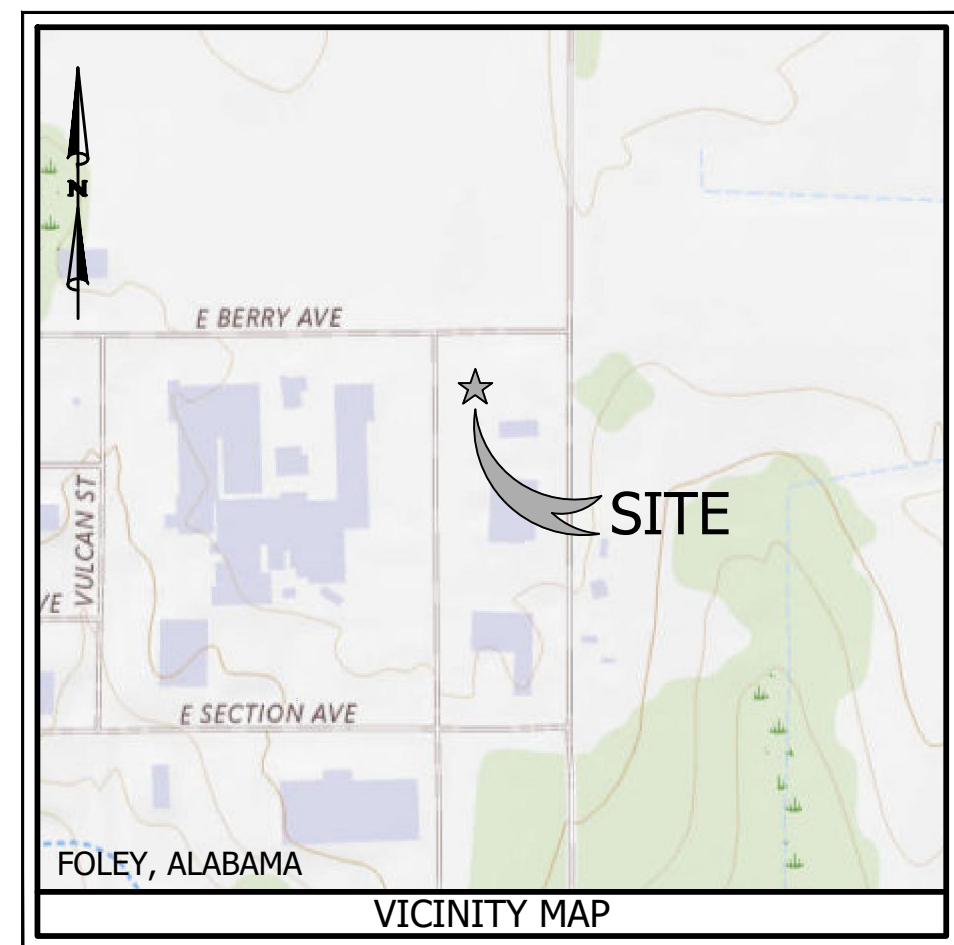
PROJECT NO: 24-027
SHEET NO:
ARCHITECTURAL
SITE PLAN

AS100



ISSUE	DATE	DESCRIPTION
1.	10.10.25	BID DOCUMENTS

Adams-Stewart-Architects
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Robertsdale, Alabama 36567
Office: 251.947.3864



	BENCHMARK
AXLE	EXISTING AXLE FOUND
CMF	CONCRETE MONUMENT FOUND
OTF	OPEN TOP IRON PIPE FOUND
CRF	CAPPED ROD FOUND
CRS	CAPPED ROD SET
	RIGHT-OF-WAY
	CENTERLINE
	EXIST. PROPERTY LINE
	PROPERTY LINE (ADJACENT)
	EXIST. EASEMENT LINE
OHE	EXIST. OVERHEAD UTILITY AND UTILITY POLE
GUY	EXIST. GUY WIRE AND UTILITY POLE
W	EXIST. WATER LINE
SS	EXIST. SANITARY SEWER LINE
GAS	EXIST. GAS LINE
UGC	EXIST. UNDER GROUND CABLE LINE
FO	EXIST. FIBER OPTIC CABLE LINE
TEL	EXIST. TELEPHONE LINE
	EXIST. FENCE LINE
	EXIST. PIPE
	EXIST. 1 FOOT CHOUR
	EXIST. 5 FOOT CHOUR
	EXIST. GRADE SPOT ELEVATION
	EXIST. POWER POLE
	EXIST. LIGHT POLE
	EXIST. ELECTRICAL BOX
	EXIST. WATER METER
	EXIST. WATER VALVE
	EXIST. WATER WELL
	EXIST. FIRE HYDRANT
	EXIST. SANITARY SEWER MANHOLE
	EXIST. GAS VALVE
	EXIST. GAS LINE MARKER
	EXIST. FIBER OPTIC CABLE BOX
	EXIST. FIBER OPTIC CABLE POST
	EXIST. FIBER OPTIC CABLE MANHOLE
	EXIST. TELEPHONE BOX
	EXIST. STORM SEWER MANHOLE
	EXIST. ASPHALT PAVING
	EXIST. CONCRETE
	EXIST. GRAVEL
	TO BE REMOVED
	TO BE REMOVED
	TO BE REMOVED

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Spanish Fort, AL 36527

Mailing Address: P.O. Box 7082
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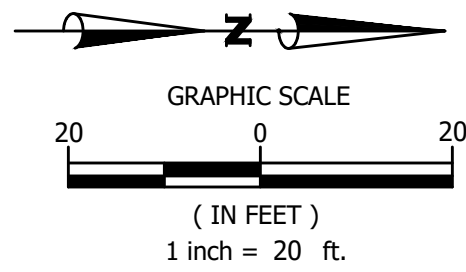
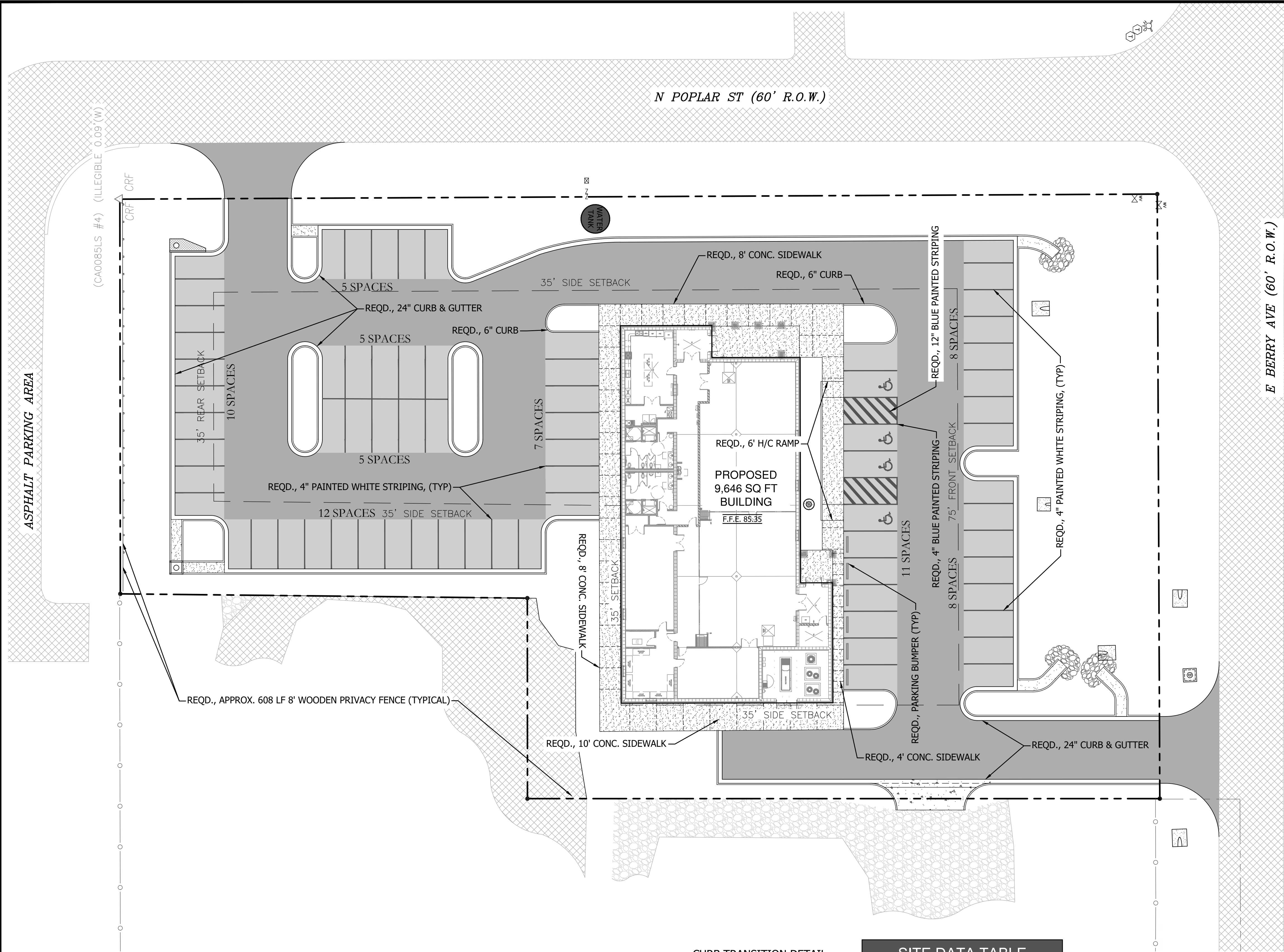
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THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO:	25-196
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SHEET NO:
C1
EXISTING
CONDITIONS &
DEMOLITION PLAN



LEGEND

- AXLE
- CMF
- OTF
- CRF
- CRS
- CENTERLINE
- OHE
- GUY
- W
- SS
- GAS
- UGC
- FO
- TEL
- BENCHMARK
- EXISTING AXLE FOUND
- CONCRETE MONUMENT FOUND
- OPEN TOP IRON PIPE FOUND
- CAPPED ROD FOUND
- CAPPED ROD SET
- RIGHT-OF-WAY
- CENTERLINE
- EXIST. PROPERTY LINE
- PROPERTY LINE (ADJACENT)
- EXIST. EASEMENT LINE
- EXIST. OVERHEAD UTILITY AND UTILITY POLE
- EXIST. GUY WIRE AND UTILITY POLE
- EXIST. WATER LINE
- EXIST. SANITARY SEWER LINE
- EXIST. GAS LINE
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- EXIST. FIBER OPTIC CABLE LINE
- EXIST. TELEPHONE LINE
- EXIST. FENCE LINE
- EXIST. PIPE
- PROPOSED PROPERTY LINE
- PROPOSED EASEMENT LINE
- PROPOSED SETBACK LINE
- PROPOSED 24" CONCRETE CURB & GUTTER
- PROPOSED 6" CONCRETE CURB
- EXIST. POWER POLE
- EXIST. LIGHT POLE
- EXIST. ELECTRICAL BOX
- EXIST. WATER METER
- EXIST. WATER VALVE
- EXIST. WATER WELL
- EXIST. FIRE HYDRANT
- EXIST. SANITARY SEWER MANHOLE
- EXIST. GAS VALVE
- EXIST. GAS LINE MARKER
- EXIST. FIBER OPTIC CABLE BOX
- EXIST. FIBER OPTIC CABLE POST
- EXIST. FIBER OPTIC CABLE MANHOLE
- EXIST. TELEPHONE BOX
- EXIST. STORM SEWER MANHOLE
- EXIST. ASPHALT PAVING
- EXIST. CONCRETE
- EXIST. GRAVEL
- PROPOSED LIGHT DUTY ASPHALT
- PROPOSED HEAVY DUTY ASPHALT
- PROPOSED LIGHT DUTY CONCRETE (BROOM FINISH)
- PROPOSED HEAVY DUTY CONCRETE (BROOM FINISH)

NOTES TO CONTRACTOR:

1. EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE BUILDING INDICATED IN THESE DRAWINGS MATCHES THE ARCHITECTS LATEST BUILDING AND FOUNDATION PLAN. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONFIRM THE AGREEMENT BETWEEN THE BUILDING FOOT PRINT SHOWN IN THESE PLANS AND THE ARCHITECTS BUILDING FOOTPRINT AND FOUNDATION PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
2. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ANY EXISTING SLOPES AND INFRASTRUCTURES ON THE SITE (I.E. PONDS, INLETS, ETC.).
3. THE CONTRACTOR TO VIDEO ALL EXISTING SEWER AND DRAIN LINES TO ENSURE THEY ARE CLEAR AND IN PROPER WORKING ORDER. PROVIDE VIDEO TO THE OWNER.
4. AFTER THE STORM DRAIN SYSTEM IS COMPLETED THE CONTRACTOR SHALL VIDEO THE SYSTEM AND SUBMIT VIDEO TO THE OWNER FOR REVIEW.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE SITE FOR THE DURATION OF THE PROJECT.
6. ALL EARTHWORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH GEOTECHNICAL RECOMMENDATIONS.
7. ALL CONDUIT LOCATIONS FOR POWER, TELEPHONE, AND CABLE SHALL BE COORDINATED WITH ARCHITECTURAL PLANS AND LOCAL UTILITY PROVIDERS.

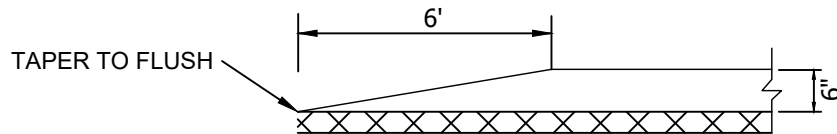
PROPOSED JOINT LAYOUT:

- PROPOSED CONTRACTION JOINT
- - - - - PROPOSED EXPANSION JOINT

PARKING STRIPING NOTE:

PARKING STRIPES ON CONCRETE SHOULD ALWAYS BE YELLOW AND PARKING STRIPES ON ASPHALT SHOULD ALWAYS BE WHITE UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION DOCUMENTS.

CURB TRANSITION DETAIL:



SITE DATA TABLE

STATE OF ALABAMA COUNTY OF BALDWIN CITY OF FOLEY	
TAX PARCEL ID:	05-54-05-21-3-000-014.012
ZONING:	M-1
ACERAGE:	APPROX. 1.75 ACRES
BUILDING SETBACKS:	
FRONT:	75'
SIDE:	35'
REAR:	35'
PARKING STANDARDS:	
PROVIDED:	
VEHICLE PARKING:	71 SPACES (INC. 3 H/C)

SPEED
LIMIT
40

POSTED SPEED LIMIT

Jinright & Associates Development Engineers
208 Gretna Road North Fairhope, Alabama 36532
P.O. Box 1929 Fairhope, Alabama 36533
Phone: (251) 928-3443 Fax: (251) 928-3665
jadengineers.com (AL) CA-3157-E

JADE
CONSULTING

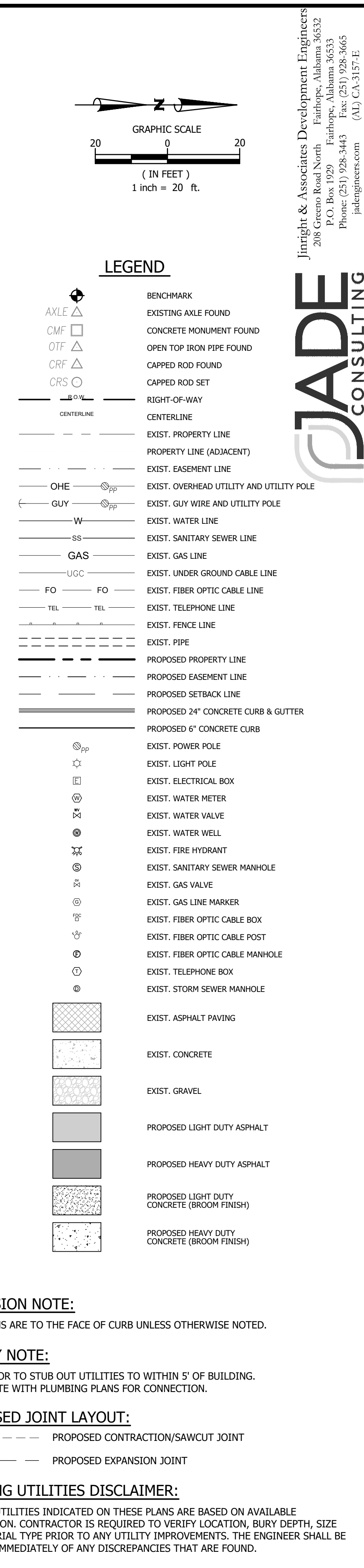
Adams-Stewart-Architects
Architecture-Planning-Interiors-Construction Administration
P.O. Box 529 • 22615 Highway 59 North
Robertsdale, Alabama 36567
Office: 251.947.3864



ISSUE	DATE	DESCRIPTION
1.	10.22.25	BID DOCUMENTS

THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 25-1965
SHEET NO:
C2
SITE PLAN



ALABAMA Know what's below.
811 Call before you dig.

Jinright & Associates Development Engineers
208 Greco Road North Fairhope, Alabama 36532
P.O. Box 1929 Fairhope, Alabama 36533
Phone: (251) 928-3443 Fax: (251) 928-3665
jandengineers.com (AL) CA-3157-E

The logo for JADE CONSULTING, featuring the word "JADE" in a large, bold, sans-serif font, with "CONSULTING" in a smaller, all-caps, sans-serif font to its right. Below the text is a stylized graphic element consisting of two overlapping, curved lines that form a partial circle or a stylized 'J' shape.

ISSUE	DATE	DESCRIPTION
1.	10.22.25	BID DOCUMENT

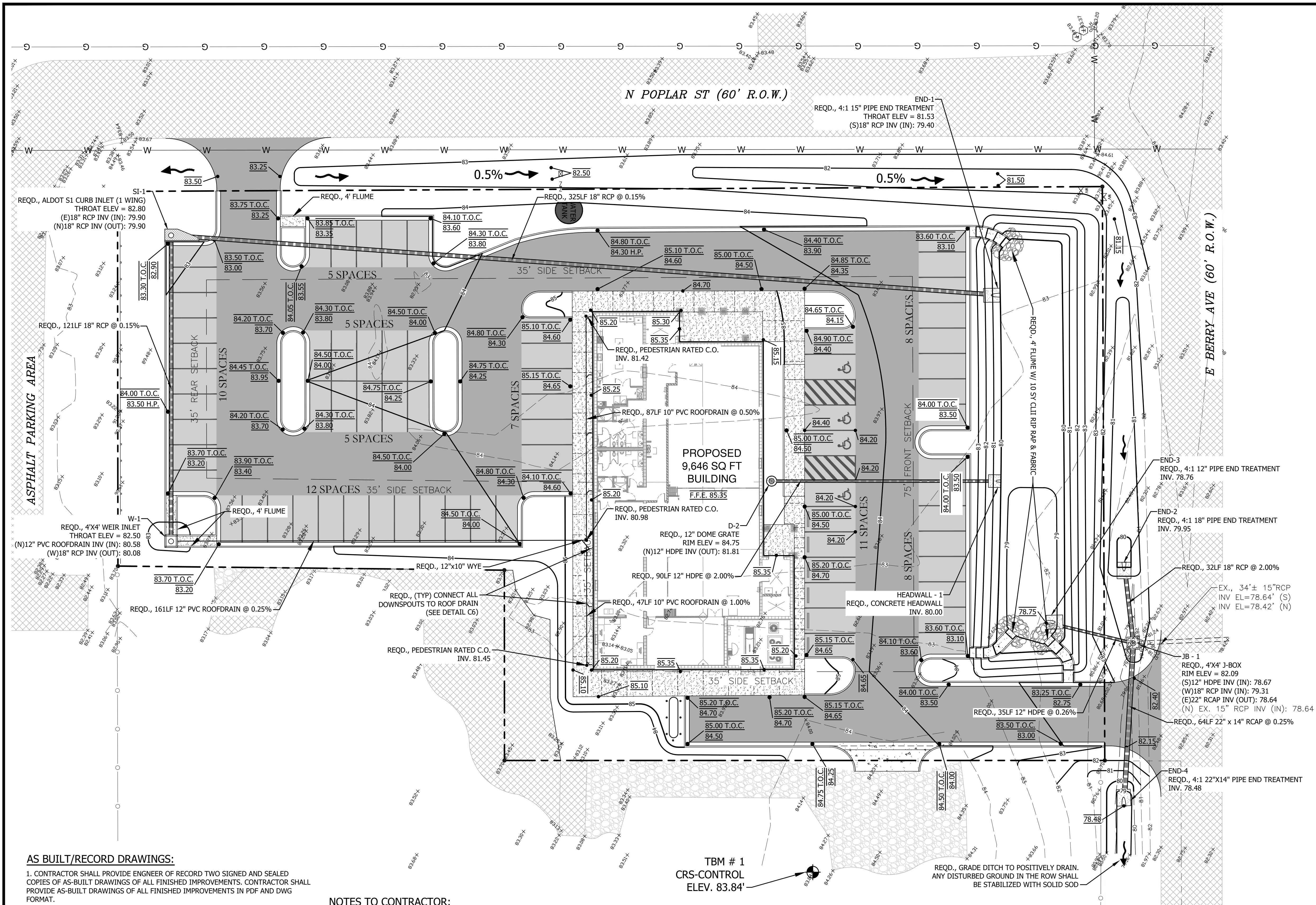
THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 25-1965

SHEET NO:
C3

GEOMETRIC
LAYOUT & UTILITY
PLAN

Adams•Stewart•Architects
Architecture/Planning/Interior/Construction Administration
P.O. Box 529 • 22615 Highway 59 North
Robertsdale, Alabama 36667
Office: 251.947.3964



AS BUILT/RECORD DRAWINGS:

- CONTRACTOR SHALL PROVIDE ENGINEER OF RECORD TWO SIGNED AND SEALED COPIES OF AS-BUILT DRAWINGS OF ALL FINISHED IMPROVEMENTS. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF ALL FINISHED IMPROVEMENTS IN PDF AND DWG FORMAT.
- AS-BUILT DRAWINGS TO BE PERFORMED AND CERTIFIED BY A ALABAMA LICENSED PROFESSIONAL LAND SURVEYOR.
- AS-BUILT DRAWINGS SHALL BE SUBMITTED AFTER COMPLETION OF ALL IMPROVEMENTS AND PRIOR TO FINAL INSPECTION.
- AS BUILT DRAWINGS SHALL INCLUDE, BUT NOT BE LIMITED TO:
 - DETAIL OF THE POND CONTROL STRUCTURE INCLUDING STRUCTURE TYPE, STRUCTURE SIZE, INVERT OF ALL PIPES, ORIFICES, WEIRS AND THE INVERT CONNECTIONS AT OFF-SITE CONVEYANCE SYSTEMS, GRATES AND SKIMMERS.
 - POND CONSTRUCTION DETAILS SHOWING THE POND TOPOGRAPHY, TOP OF THE POND BERM/WALL AND POND BOTTOM ELEVATIONS AND THE LOCATION OF SAND FILTERS.
 - SHOW ENTIRE STORM WATER CONVEYANCE SYSTEM INCLUDING THE SIZE TYPE AND INVERT OF ALL PIPES, CHANNELS, ROOF DRAIN SYSTEMS, STRUCTURES, CURBING AND SPOT SHOT ELEVATIONS IN VEHICLE USE AREAS. DRAINAGE STRUCTURES SHALL INCLUDE "X" AND "Y" COORDINATES.
 - SHOW ALL TRAFFIC CONTROL DEVICES INCLUDING SIGNS, SIGNALS, PARKING STRIPING AND PAVEMENT MARKINGS.
 - DELINEATE CONSERVATION AND DRAINAGE EASEMENT BOUNDARIES AND LABEL WITH THE "OR" BOOK AND PAGE NUMBER.D
 - ANY ADDITIONAL ITEMS REQUIRED BY PERMITTING JURISDICTION.

NOTES TO CONTRACTOR:

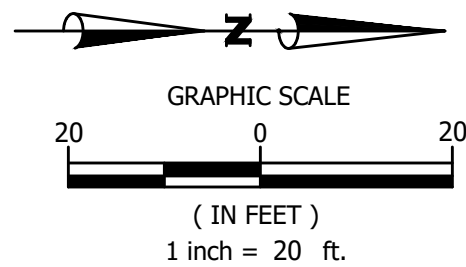
- EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE BUILDING INDICATED IN THESE DRAWINGS MATCHES THE ARCHITECT'S LATEST BUILDING AND FOUNDATION PLAN. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONFORM THE AGREEMENT BETWEEN THE BUILDING FOOT PRINT SHOWN IN THESE PLANS AND THE ARCHITECTS BUILDING FOOTPRINT AND FOUNDATION PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN ANY EXISTING SLOPES AND INFRASTRUCTURES ON THE SITE (I.E. PONDS, INLETS, ETC.).
- CONTRACTOR TO VIDEO ALL EXISTING SEWER AND DRAIN LINES TO ENSURE THEY ARE CLEAR AND IN PROPER WORKING ORDER. PROVIDE VIDEO TO THE OWNER.
- AFTER THE STORM DRAIN SYSTEM IS COMPLETED THE CONTRACTOR SHALL VIDEO THE SYSTEM AND SUBMIT VIDEO TO THE OWNER FOR REVIEW.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE SITE FOR THE DURATION OF THE PROJECT.

DRAINAGE INLET NOTE:

FOR ALL CURB INLETS, THE THROAT ELEVATION CALLED OUT ON THE PLANS IS THE GUTTER FLOW LINE ELEVATION.

FOUNDATION FOOTING NOTE:

CONTRACTOR TO REVIEW SPOT ELEVATIONS IMMEDIATELY SURROUNDING BUILDING AT THE TIME OF FOOTING PREPARATION. CONTRACTOR TO ENSURE STRUCTURAL DETAILS MATCH CIVIL DESIGN AND ACCOUNT FOR ELEVATIONS TO ENSURE NO CONFLICT WITH FOOTING DEPTHS. CONTRACTOR TO INFORM ENGINEERS AND OWNER OF ANY DISCREPANCIES IMMEDIATELY UPON DISCOVERY AND ENSURE RESOLUTION BEFORE SCHEDULING FOOTINGS TO BE POURED.



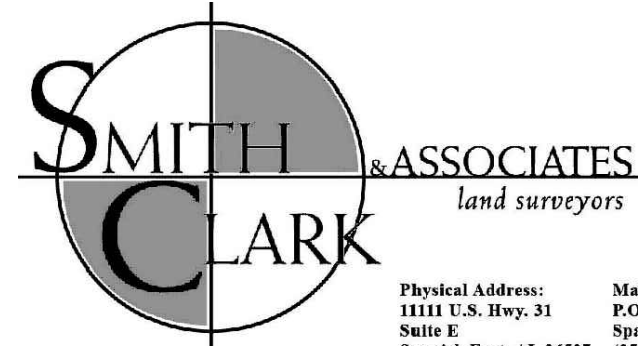
LEGEND

- | | |
|--|---|
| | BENCHMARK |
| | EXISTING AXLE FOUND |
| | CONCRETE MONUMENT FOUND |
| | OPEN TOP IRON PIPE FOUND |
| | CAPPED ROD FOUND |
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| | PROPOSED LIGHT DUTY ASPHALT |
| | PROPOSED HEAVY DUTY ASPHALT |
| | PROPOSED LIGHT DUTY CONCRETE (BROOM FINISH) |
| | PROPOSED HEAVY DUTY CONCRETE (BROOM FINISH) |
| | EXIST. 1 FOOT CONTOUR |
| | EXIST. 5 FOOT CONTOUR |
| | EXIST. GRADE SPOT ELEVATION |
| | PROPOSED 1 FOOT CONTOUR |
| | PROPOSED 5 FOOT CONTOUR |
| | FINISHED GRADE ELEVATION (TOP OF CURB) |
| | FINISHED GRADE ELEVATION |
| | DRAINAGE DIRECTION |
| | PROPOSED RIP RAP W/ FILTER BLANKET |

BENCHMARK INFORMATION:

- TBM #1 - ELEV = 83.84'

SURVEY PROVIDED BY:



Physical Address: 11111 U.S. Hwy. 31 Suite E Spanish Fort, Al. 36527
Mailing Address: P.O. Box 7082 Spanish Fort, Al. 36527 (251) 626-1004

THE CITY OF FOLEY

1ST RESPONDERS HURRICANE SHELTER

NORTH POPLAR STREET

FOLEY, ALABAMA 36535

PROJECT NO: 25-1965

SHEET NO:

C4

GRADING & DRAINAGE PLAN



ISSUE	DATE	DESCRIPTION
1.	10.22.25	BID DOCUMENTS

Adams-Stewart-Architects
Architecture-Planning-Interior-Construction Administration
P.O. Box 529 • 22615 Highway 59 North
Robertsdale, Alabama 36567
Office: 251.947.3864

JADE CONSULTING

Jinright & Associates Development Engineers
208 Greeno Road North Fairhope, Alabama 36532
P.O. Box 1929 Fairhope, Alabama 36533
Phone: (251) 928-3443 Fax: (251) 928-3665
jadengineers.com (AL) CA-3157-E

PROJECT NOTES:

SITE NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL STATE, LOCAL AND FEDERAL LAWS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL OF THESE LAWS AND REGULATIONS HAVE BEEN MET.
- THE CONTRACTOR SHALL NOTIFY JADE CONSULTING'S RESPECTIVE TESTING COMPANY AND ANY LOCAL JURISDICTIONAL INSPECTOR FOR APPROVAL 48 HOURS BEFORE THE BEGINNING OF ANY SUBSEQUENT PHASE OF CONSTRUCTION.
- THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERRORS DISCOVERED IN THE PLANS.
- THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE ONE-CALL LINE LOCATE CENTER FOR THE MARKING OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RENEW CONFORMATION NUMBERS AS OFTEN AS REQUIRED DURING THE DURATION OF THE PROJECT. THE CURRENT CONFIRMATION NUMBER SHALL BE ON PROJECT SITES AT ALL TIMES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ANY AND ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS ARE NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THESE PLANS. HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTORS CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR IS TO CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING INFRASTRUCTURE.
- ALL WATER CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO **THE LATEST EDITION OF THE "STANDARDS AND SPECIFICATIONS" OF RIVIERA UTILITIES.**
- ALL SEWER CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO **THE LATEST EDITION OF THE "STANDARDS AND SPECIFICATIONS" OF RIVIERA UTILITIES.**
- ALL MANHOLES WITHIN THE 100 YEAR FLOOD PLAIN SHALL BE CONSTRUCTED THREE (3) FEET ABOVE GRADE.
- THE CONTRACTOR SHALL EMPLOY ALL NECESSARY MEASURES TO ENSURE THAT THE PROJECT IS OSHA COMPLIANT.
- THE CONTRACTOR SHALL EXPLORE EXISTING STRUCTURES, UTILITIES AND PIPING SO THAT ANY REQUIRED ADJUSTMENT MAY BE MADE.
- ANY EXCESS MATERIAL FROM CONSTRUCTION ACTIVITIES SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND INVERTS OF ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY WORK ITEM. THE PROJECT ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH ALL RESPECTIVE UTILITY PROVIDERS AND AUTHORITIES. PROPER NOTICE SHALL BE GIVEN PRIOR TO ANY WORK STARTING.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE BEDDING AND HAUNCHING FOR ALL IMPROVEMENTS.
- CONTRACTOR SHALL REPLACE ANY FAULTY OR IMPROPERLY INSTALLED IMPROVEMENTS AT THEIR EXPENSE.
- THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF ALABAMA TO RESET ANY PROPERTY MARKERS DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.
- ALL PRESSURE PIPE FITTINGS, WATER AND SEWER SHALL BE DUCTILE IRON.
- CONTRACTOR SHALL NOT DEVIATE FROM PLANS WITHOUT PROPER CONSENT.
- NO SEPARATE PAY ITEM FOR REMOVAL OF ASPHALT, CONCRETE, PIPE, INLETS, ETC. WORK TO BE CONSIDERED A SUBSIDIARY ITEM OF CLEARING AND GRUBBING.
- CONTRACTOR SHALL STRICTLY FOLLOW THE LOCAL AUTHORITIES AND/OR GEOTECHNICAL REPORTS FOR ALL GRADING, BACKFILLING, AND PAVING REQUIREMENTS. ALL RESPECTIVE TASKS SHALL BE APPROVED BY RESPONSIBLE INSPECTOR PRIOR TO ACCEPTANCE.
- THE CONTRACTOR WILL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED, REMOVED OR REGRADED AS REQUIRED BY THE ENGINEER.
- ALL GRAVITY PIPES SHALL BE LAID ON SMOOTH CONTINUOUS GRADES WITH NO DETECTABLE BENDS AT JOINTS.
- ALL STORM DRAINAGE INLET STRUCTURES SHALL HAVE A NEENAH CAST IRON FRAME AND COVER, OR EQUIV. EQUAL, FOR ACCESS.
- SOIL TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. THE SOILS ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER AND THE OWNER'S REPRESENTATIVE AND SHALL PROMPTLY NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ADEQUATE NOTICE TO SOILS ENGINEER FOR THE REQUIRED TESTING OF THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE ANY EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTORS RESPONSIBILITY.

SEDIMENT CONTROL & STORMWATER MANAGEMENT NOTES:

1. ALL EROSION CONTROL PROCEDURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS".
2. ALL BEST MANAGEMENT PRACTICES (BMP) PROCEDURES SHALL BE IN PLACE AND INSPECTED PRIOR TO ANY LAND DISTURBING ACTIVITY.
3. ALL DISTURBED AREAS SHALL BE TEMPORARILY GRASSED AND MULCHED IF THEY WILL BE LEFT UNATTENDED FOR 13 DAYS.
4. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
5. CONSTRUCTION ENTRANCE/EXIT PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT. (NO DIRECT PAYMENT)
6. THE APPROVED BEST MANAGEMENT PRACTICES PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY HAS BEGUN.
7. SILT FENCE AND/OR EROSION CONTROL NETTING SHALL BE PLACED ALONG THE DOWNSTREAM SIDE OF ALL PROPOSED FILL CONSTRUCTION.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION.
9. WHEN REQUIRED CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY AND RAIN EVENT TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. CONTRACTOR SHALL PROPERLY MAINTAIN ALL BMP'S IN ACCORDANCE WITH THE "HANDBOOK".
10. CONTRACTOR SHALL IMMEDIATELY REPAIR AND/OR REPLACE ANY DAMAGED OR IMPROPERLY FUNCTIONING BMP.
11. ANY SILT IN THE DETENTION POND SHALL BE REMOVED AS DIRECTED BY THE PROJECT ENGINEER OR LOCAL AUTHORITY. THE DETENTION POND SHALL ALSO BE REGRADED TO FINAL DESIGN PRIOR TO FINAL ACCEPTANCE OF PROJECT. THERE IS NO DIRECT PAYMENT FOR THIS ACTIVITY.
12. ALL DISTURBED AREAS MUST BE PERMANENTLY STABILIZED IN ACCORDANCE WITH THE HANDBOOK PRIOR TO FINAL ACCEPTANCE.
13. CONTRACTOR SHALL ROUTINELY CLEAN OUT ANY SILT ACCUMULATION FROM THE PROJECTS DRAINAGE STRUCTURES AS REQUIRED BY PROJECT ENGINEER AND/OR LOCAL AUTHORITY.
14. CONTRACTOR IS SOLELY RESPONSIBLE FOR SEDIMENT CONTROL AND STORMWATER MANAGEMENT FOR PROJECT. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER IMMEDIATELY OF ANY FAILING BMP.

CONSTRUCTION PHASE SEQUENCE:

PHASE ONE

- INSTALL CONSTRUCTION ENTRANCE/EXIT
- CLEAR AREA REQUIRED FOR SILT FENCE PLACEMENT
- INSTALL SILT FENCE (SBA)

PHASE TWO

- CONSTRUCT AND STABILIZE WATER QUALITY PONDS/SEDIMENT BASINS
- WATTLES, INLET, AND OUTLET PROTECTION TO BE INSTALLED

PHASE THREE

- DEMOLITION AND REMOVAL OF DEMO DEBRIS
- CLEAR/GRUB REMAINING SITE AREAS

PHASE FOUR

- INSTALL STORM DRAINAGE MEASURES
- GRADE SITE TO ROUGH GRADES

PHASE FIVE

- CONSTRUCT UTILITIES (WATER, SEWER)
- BUILDING CONSTRUCTION BEGINS

PHASE SIX

- CONSTRUCT ROADS (PAVING, CURB AND GUTTER, SIDEWALKS)
- BUILDING CONSTRUCTION CONTINUES

PHASE SEVEN

- BUILDING CONSTRUCTION COMPLETED
- STABILIZE DISTURBED AREAS WITH SOLID SOD
- INSTALL PERMANENT LANDSCAPING

PHASE EIGHT

- REMOVE BMP MEASURES

PHASE NINE

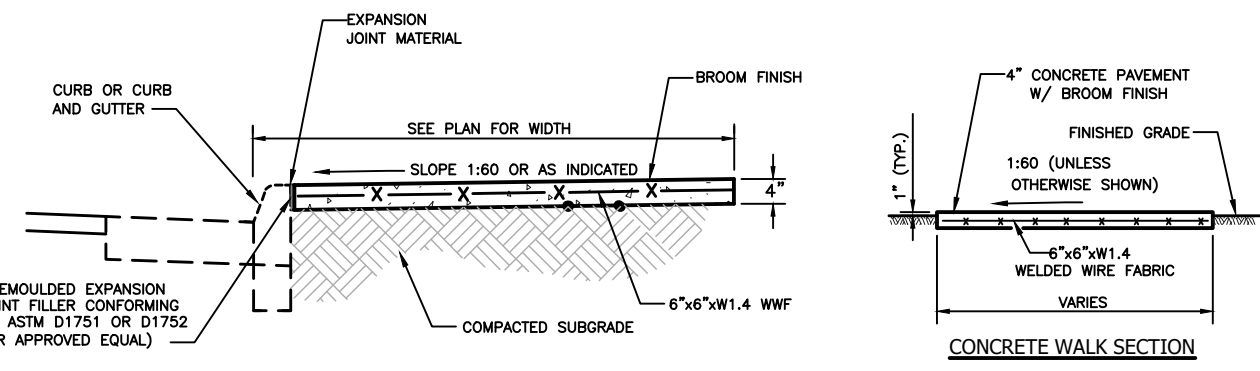
- REMOVE SILT FENCE
- CONVERT SEDIMENT BASIN TO PERMANENT FUNCTION POND BY REMOVING CAPTURED SEDIMENT
- PROJECT COMPLETE, FINAL INSPECTION, FILE NOTICE OF TERMINATION

PARKING STRIPING NOTE:

PARKING STRIPES ON CONCRETE SHOULD ALWAYS BE YELLOW AND PARKING STRIPES ON ASPHALT SHOULD ALWAYS BE WHITE UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION DOCUMENTS.

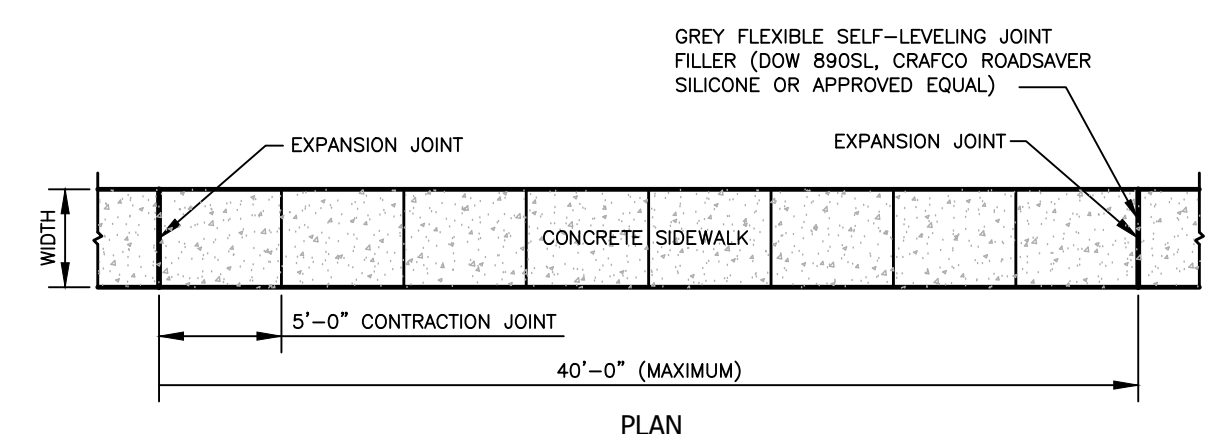
TRAFFIC CONTROL NOTES:

1. ALL TRAFFIC CONTROL SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL TRAFFIC PLANS SHALL BE COORDINATED WITH THE CITY OF FOLEY PUBLIC WORKS DEPARTMENT AND ALDOT.
3. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS MAY BE NECESSARY AS PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART IV. THESE DEVICES SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. **NO SEPARATE PAYMENT WILL BE MADE FOR TRAFFIC CONTROL REQUIREMENTS.**
4. ALL TEMPORARY TRAFFIC CONTROL SHALL COMPLY WITH PART VI OF THE MUTCD LATEST EDITION.

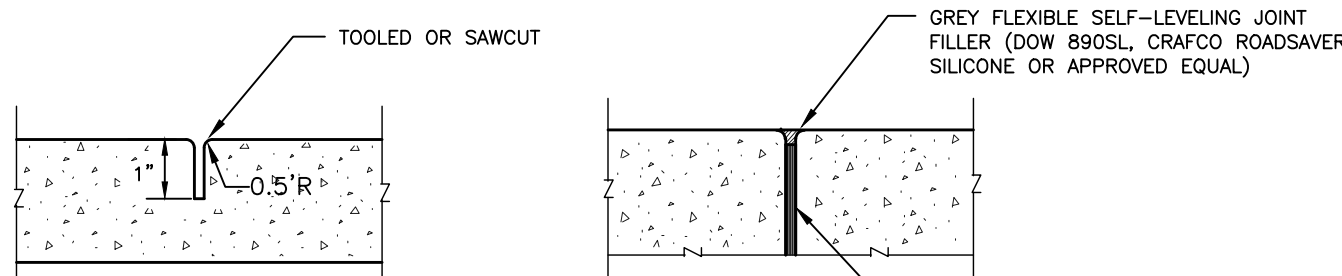


CONCRETE SIDEWALK
NTS

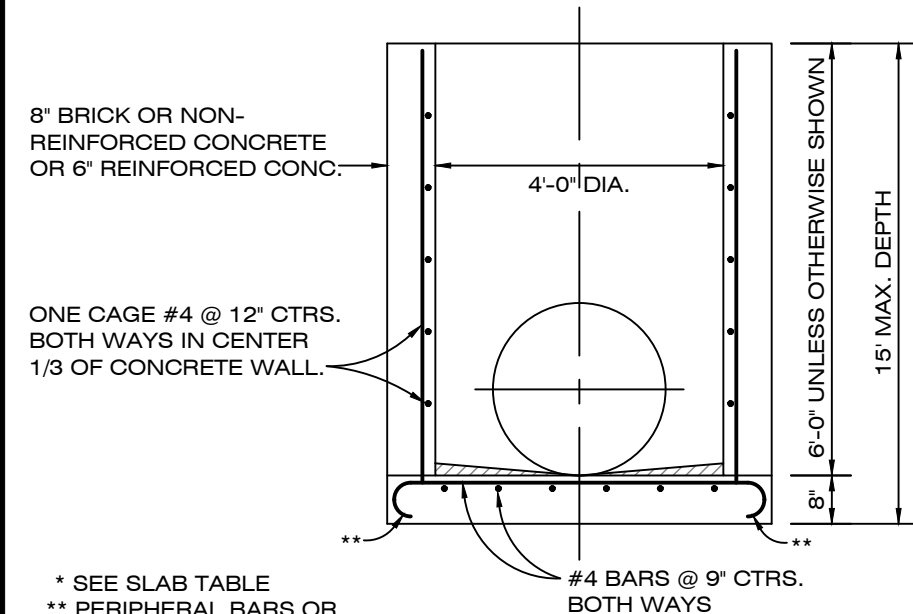
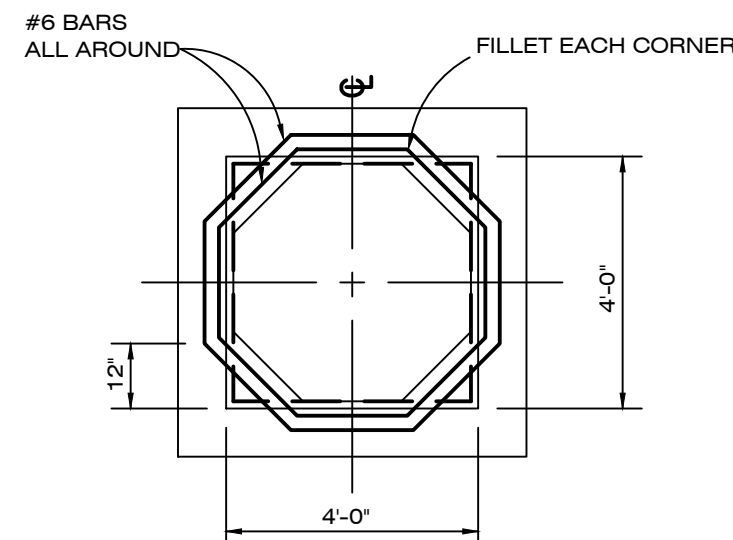
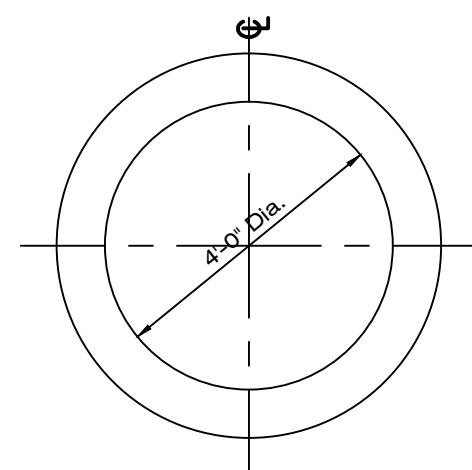
TYPICAL CONCRETE WALK DETAILS
NTS



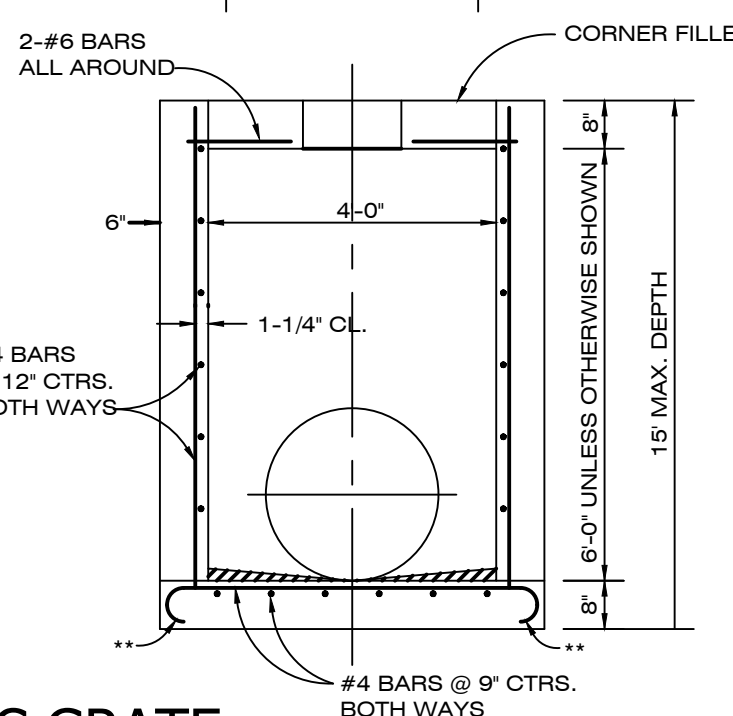
TYPICAL SIDEWALK JOINT DETAILS
NTS



CONTRACTION JOINT
CONCRETE SIDEWALK JOINT DETAILS
NTS

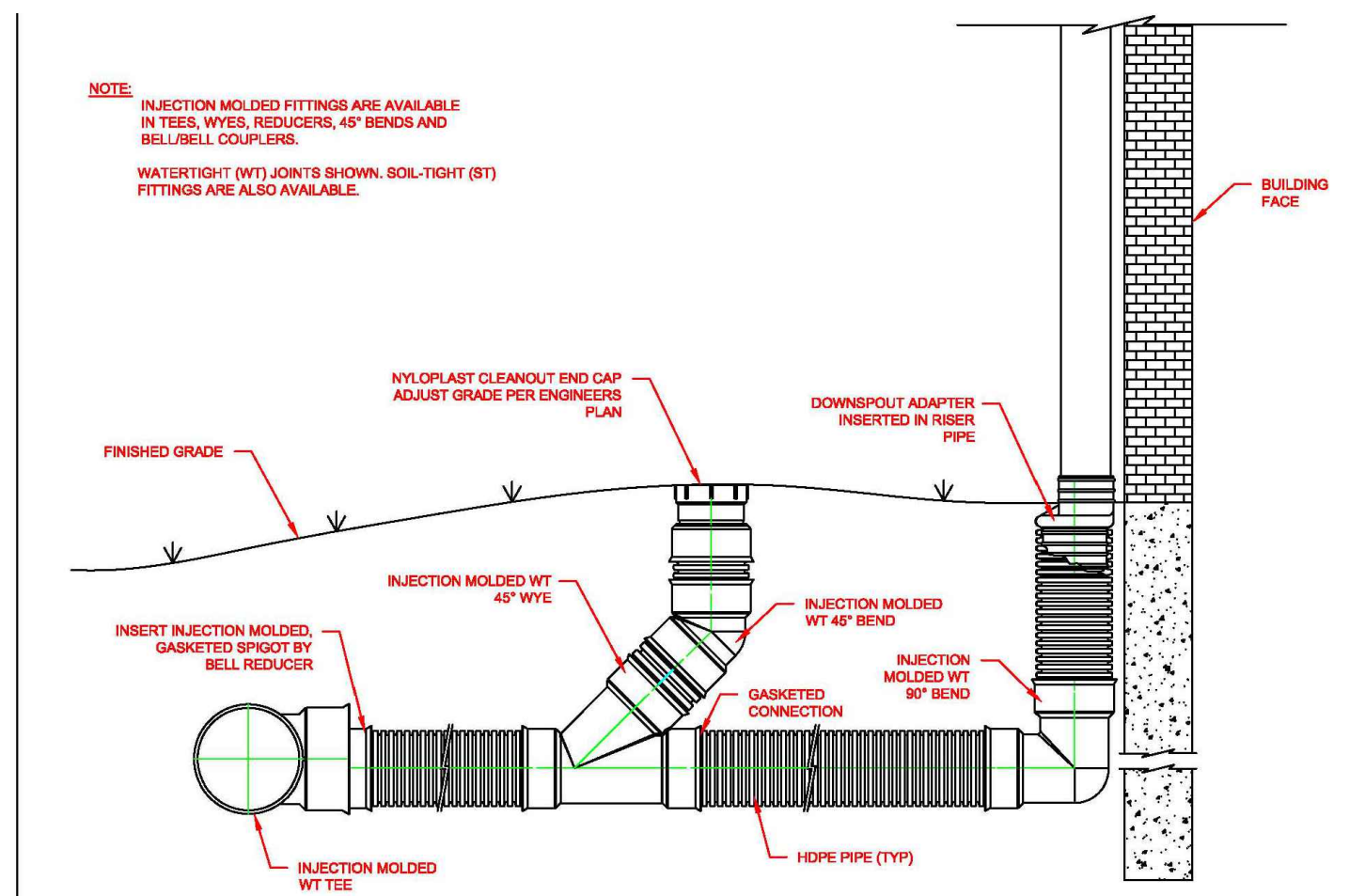


ALTERNATE A



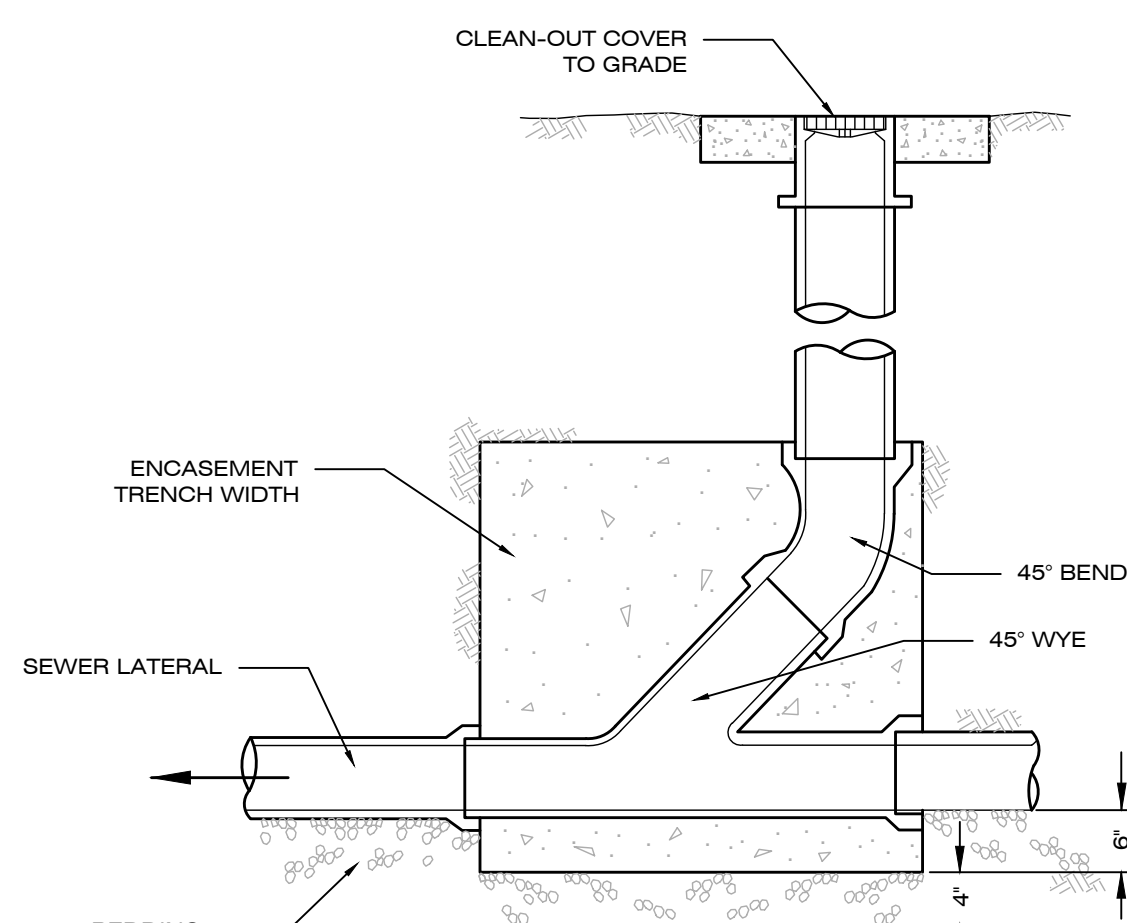
ALTERNATE B

R-1878-B8L W/ TYPE C GRATE
WITH TYPE "P" BOTTOM DETAIL

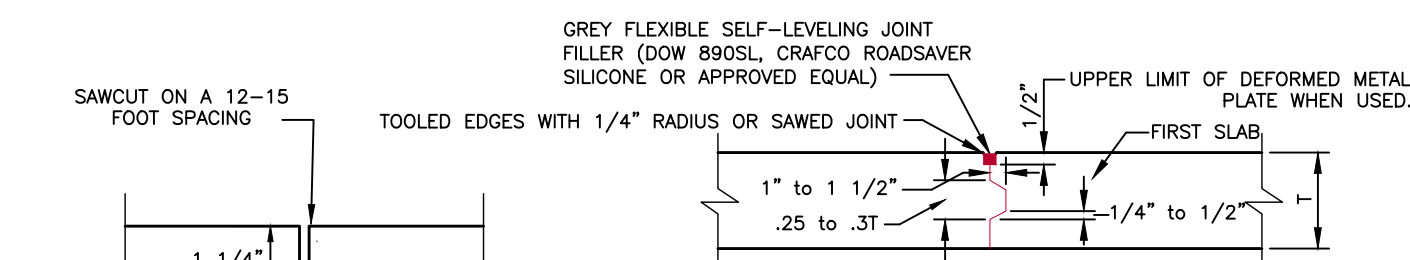


STANDARD CLEAN-OUT
NTS

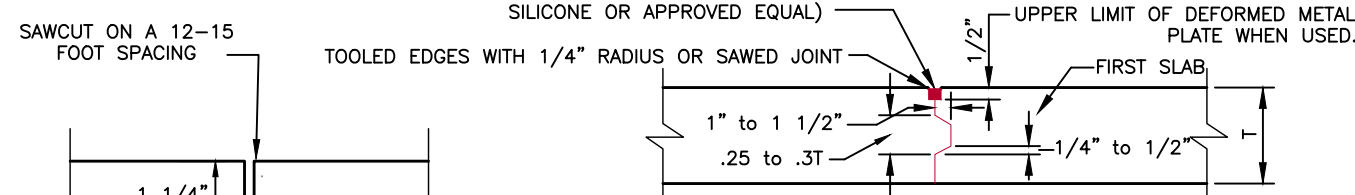
- NOTES:
1. CLEAN-OUT PIPE SIZE SHALL MATCH EXISTING LATERAL.
 2. NEW SEWER LATERALS AND CLEAN-OUTS SHALL BE 6-INCH.
 3. ENTIRE WYE SECTION TO BE ENCASED IN CONTROLLED LOW STRENGTH MATERIAL OR GRANULAR FILL.



6' CONCRETE CURB
(OR APPROVED EQUAL)
NTS



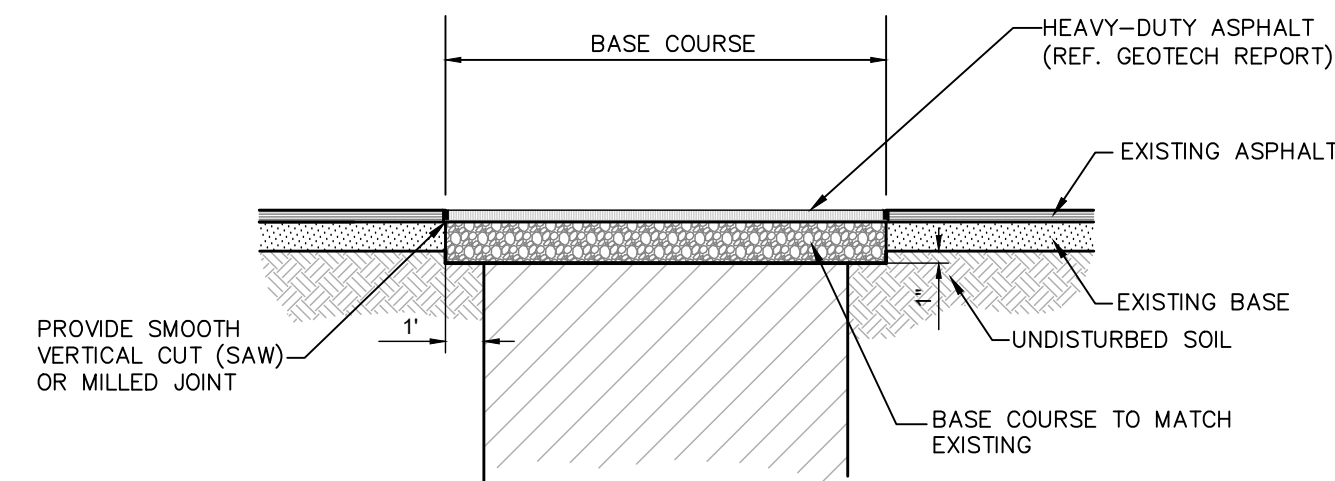
EXPANSION JOINT
(OR APPROVED EQUAL)



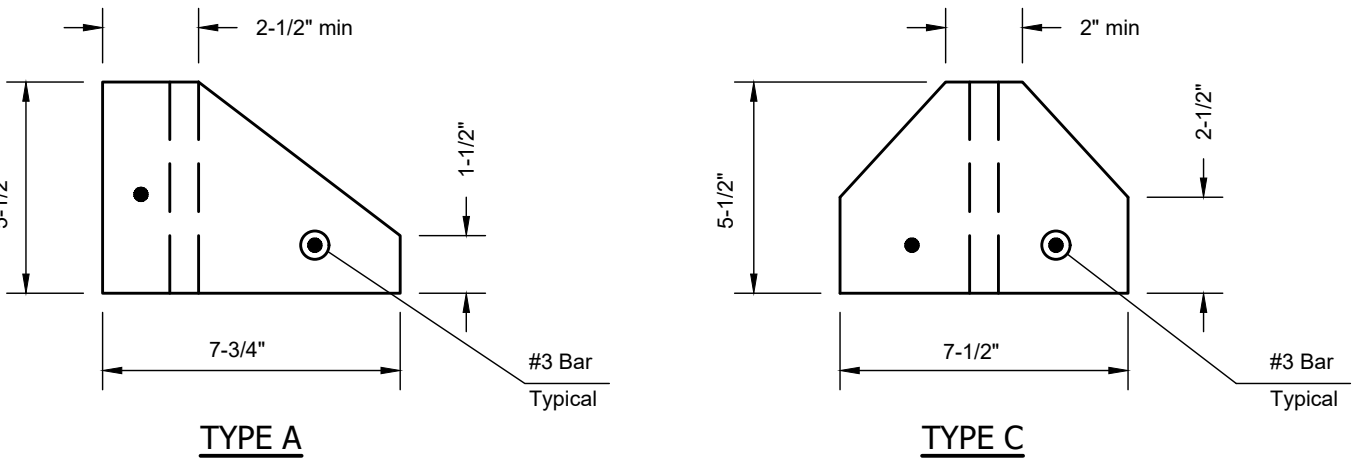
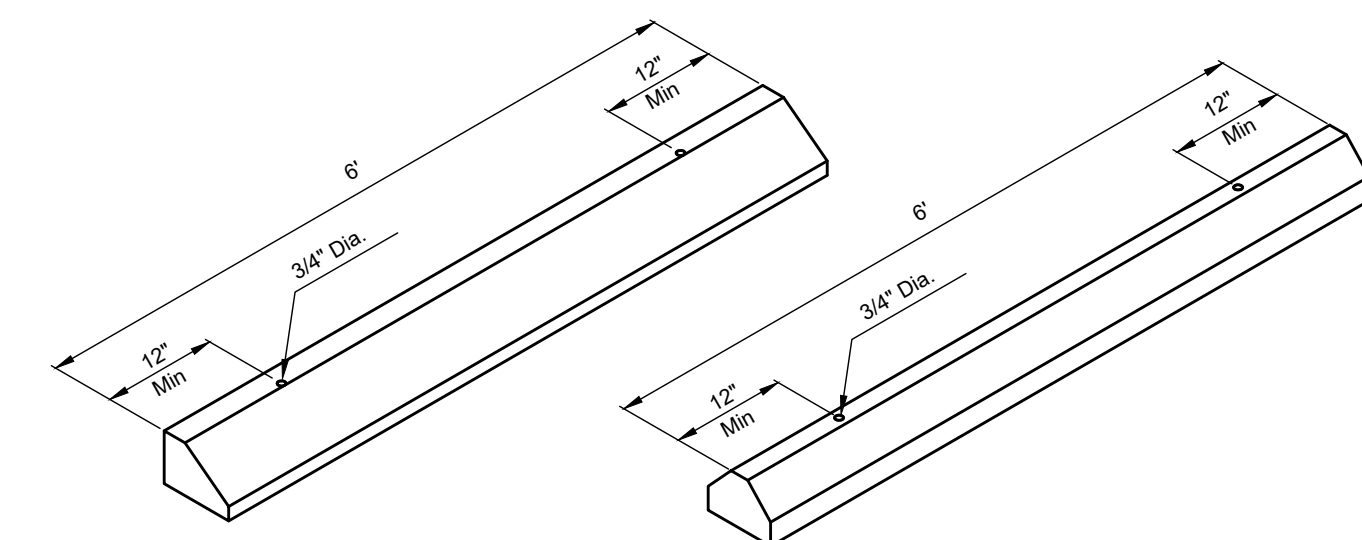
TONGUE AND GROOVE CONTRACTION

PAVEMENT JOINT DESIGN AND LOCATION SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE PORTLAND CEMENT ASSOCIATION AND ACI 330.

CONCRETE PAVING JOINT DETAILS
NTS

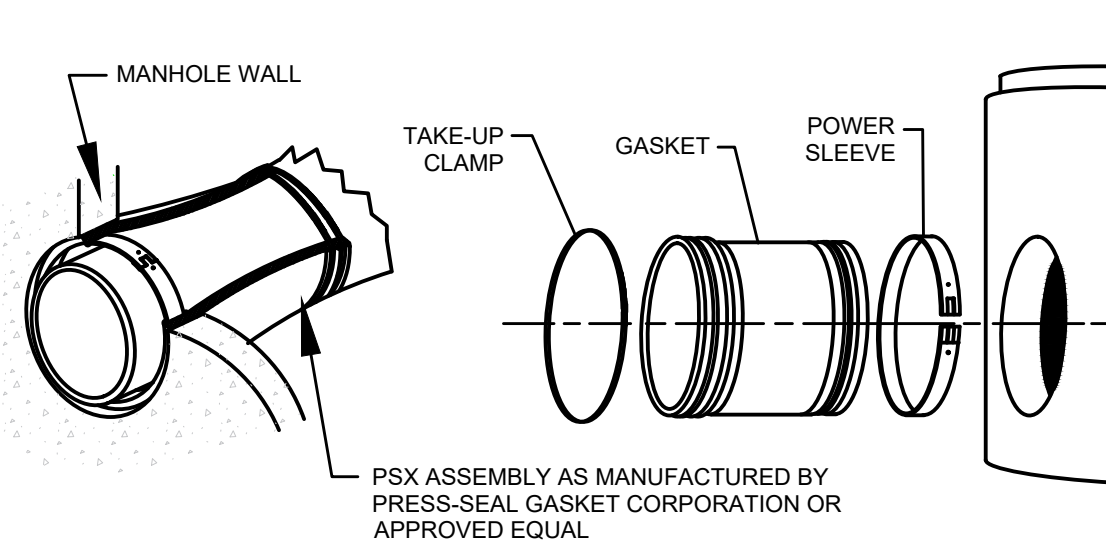


PAVING PATCH DETAIL
NTS

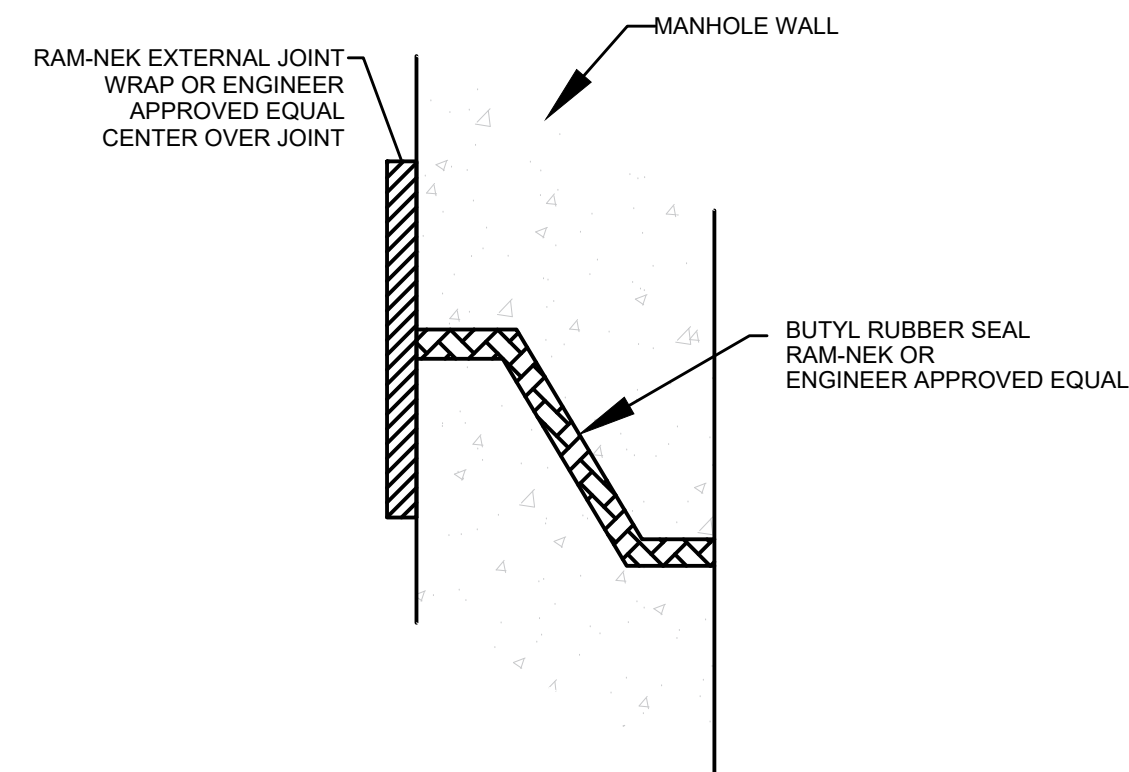


- NOTES:
- CONCRETE TO BE 3,000 PSI WITH FIBER MESH REINFORCING.
 - TO BE INSTALLED 2' FROM FACE OF WALK.

REINFORCED CONCRETE WHEEL STOPS
NTS



TYPICAL "BOOT" DETAIL
N.T.S.



MANHOLE JOINT DETAIL
N.T.S.

RIVIERA UTILITIES
EASTERN DIVISION
GAS, WATER, & WASTEWATER
DEPARTMENT
413 EAST LAUREL AVENUE
FOLEY, ALABAMA 36535
251.943.5001

STANDARD SANITARY SEWER DETAILS
PRECAST MANHOLE DETAILS
MANHOLE BOOT AND MANHOLE JOINT DETAILS

DATE ISSUED
11-15-16
SHEET NO.
S-5

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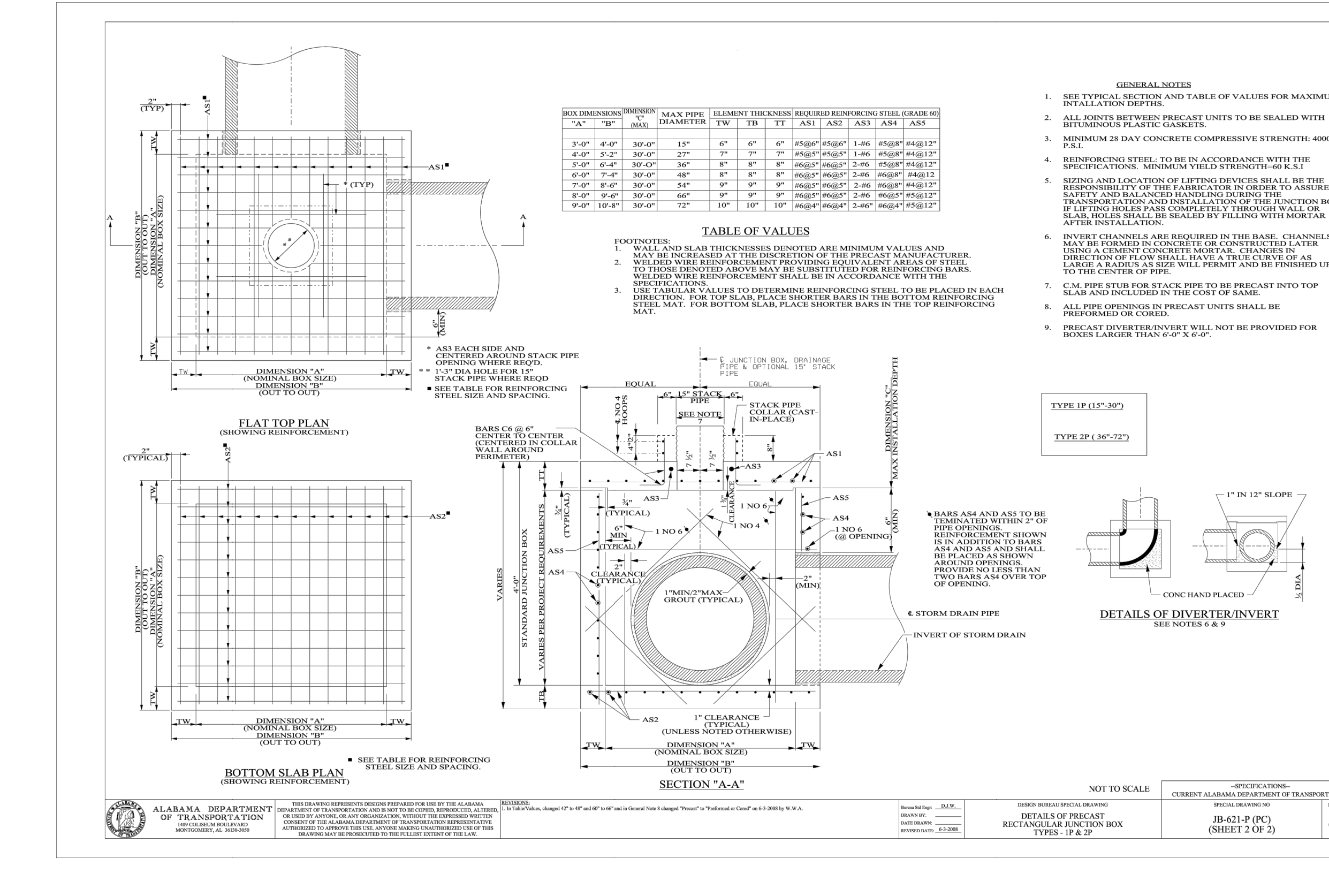
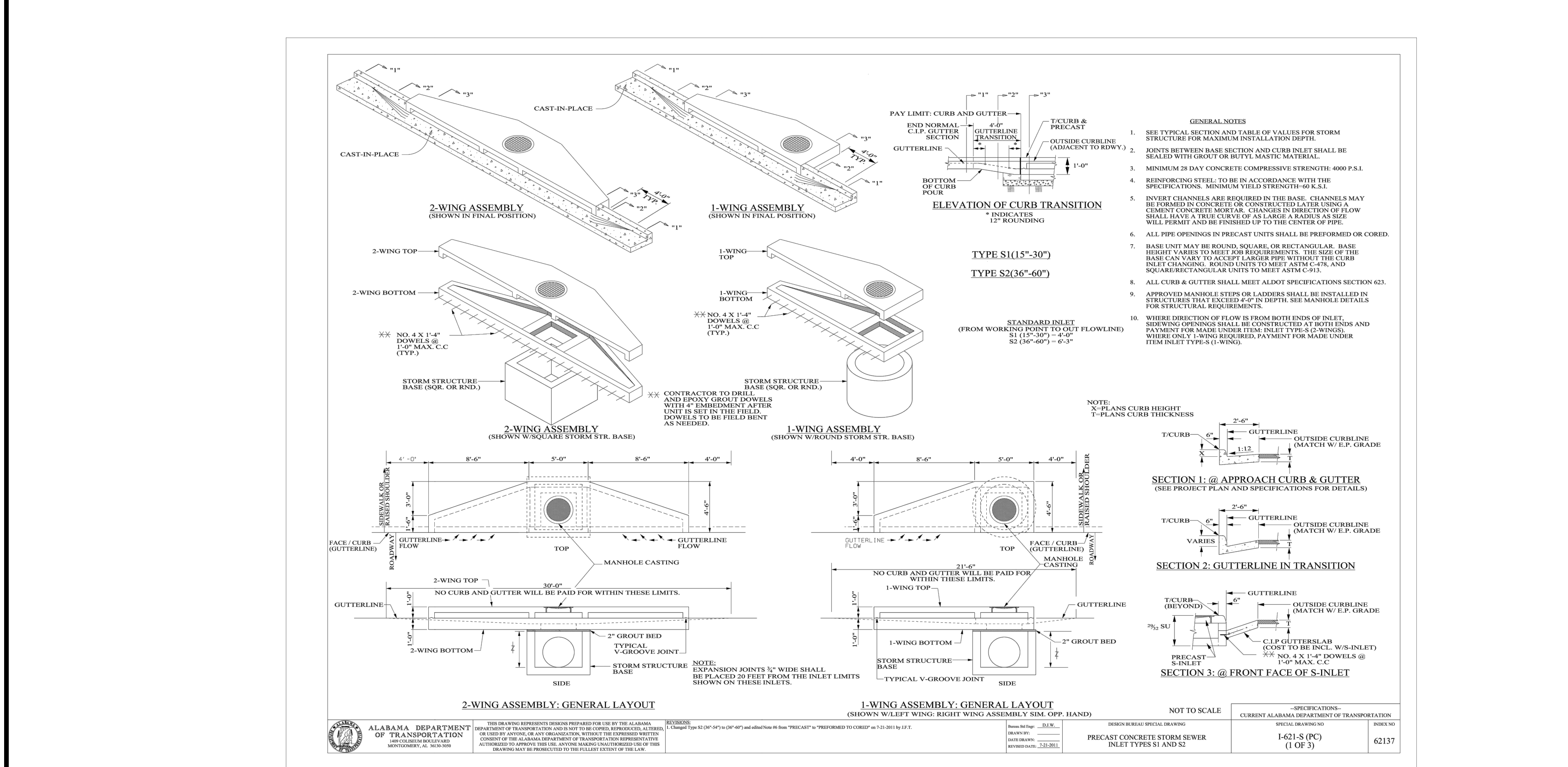
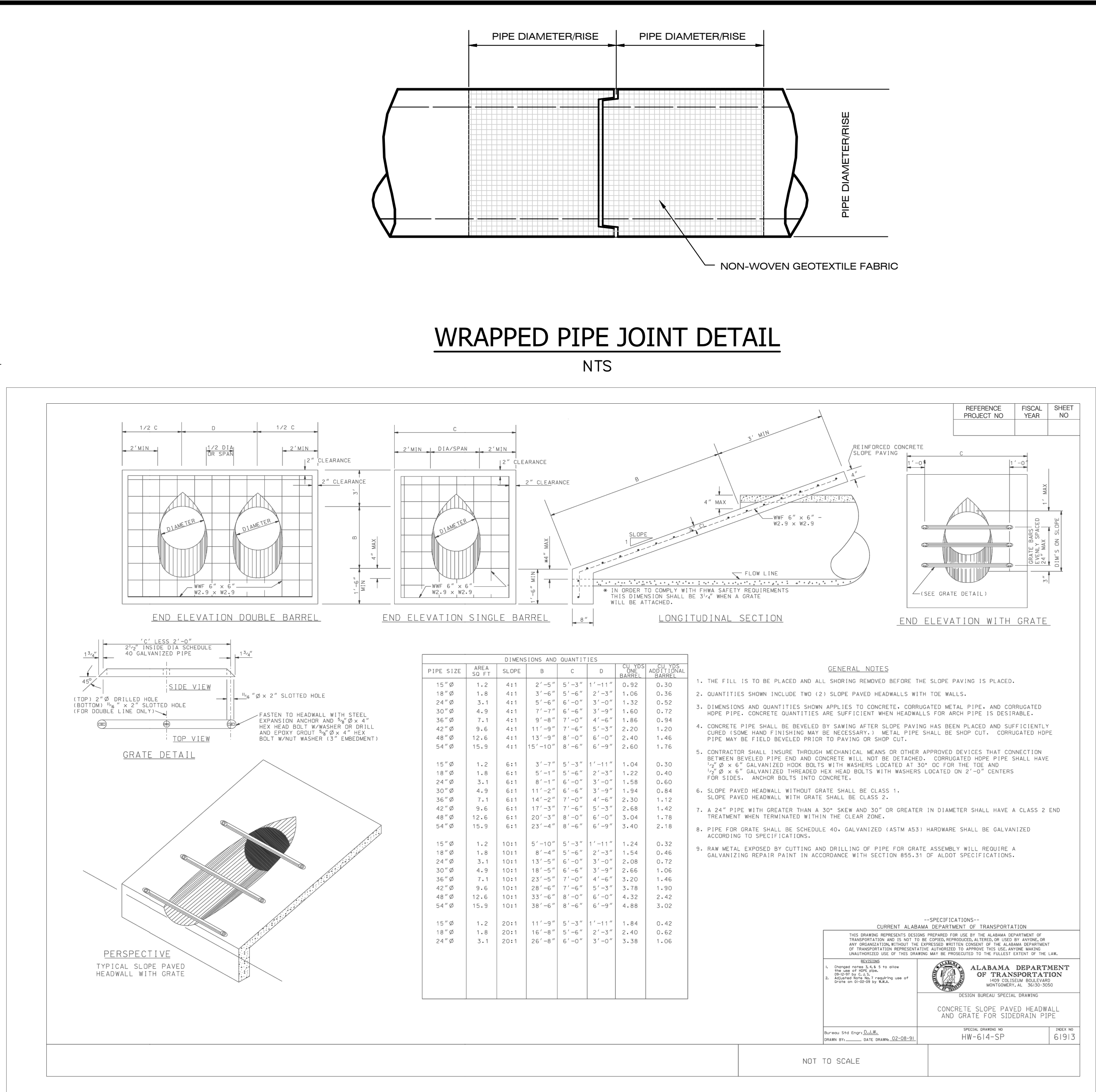
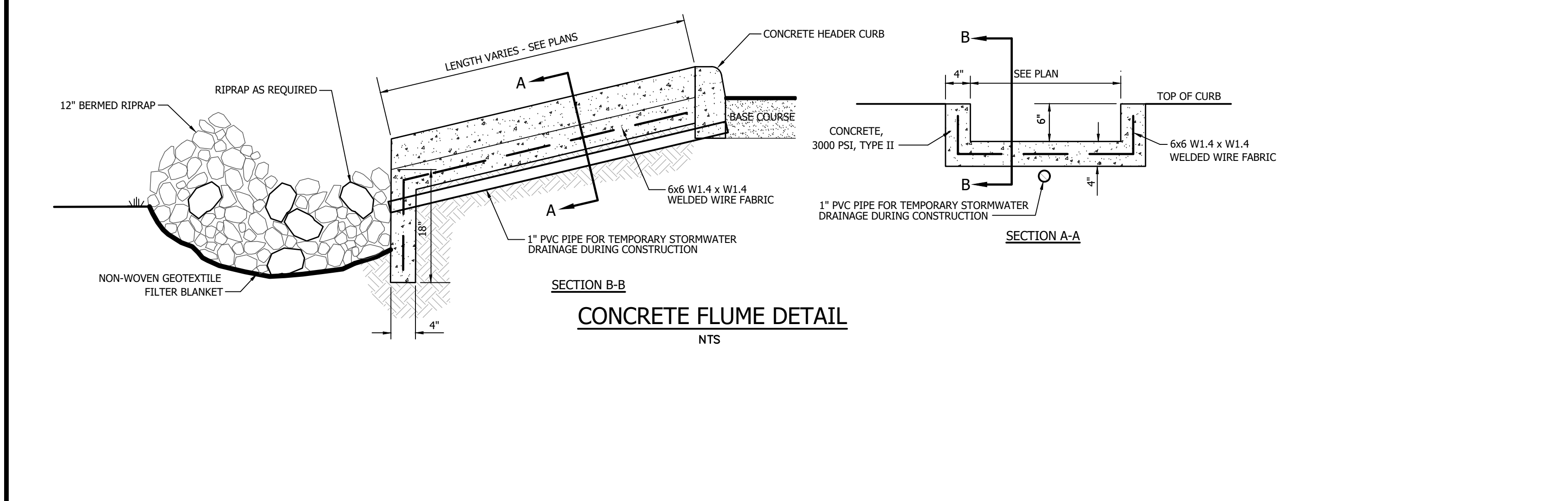
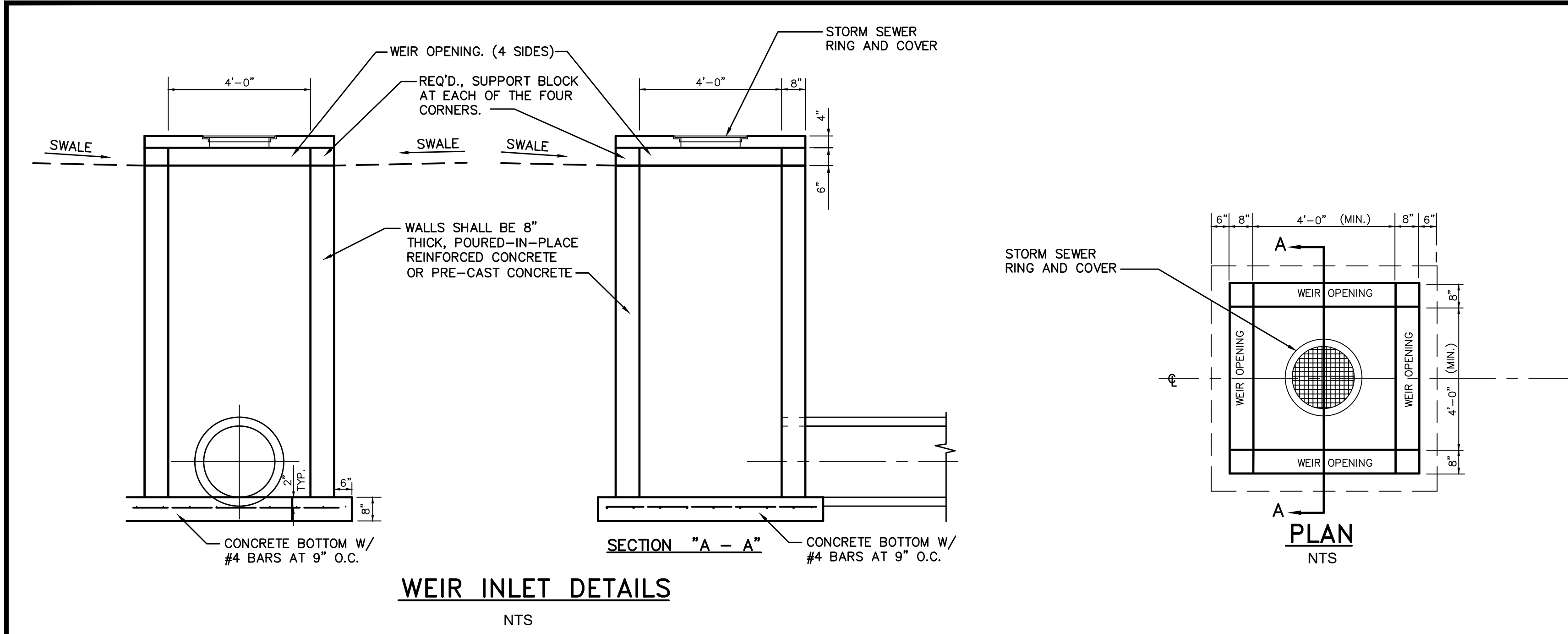
THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 25-1965

SHEET NO:

C6

CIVIL
CONSTRUCTION
DETAILS (1)



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THE CITY OF FOLEY

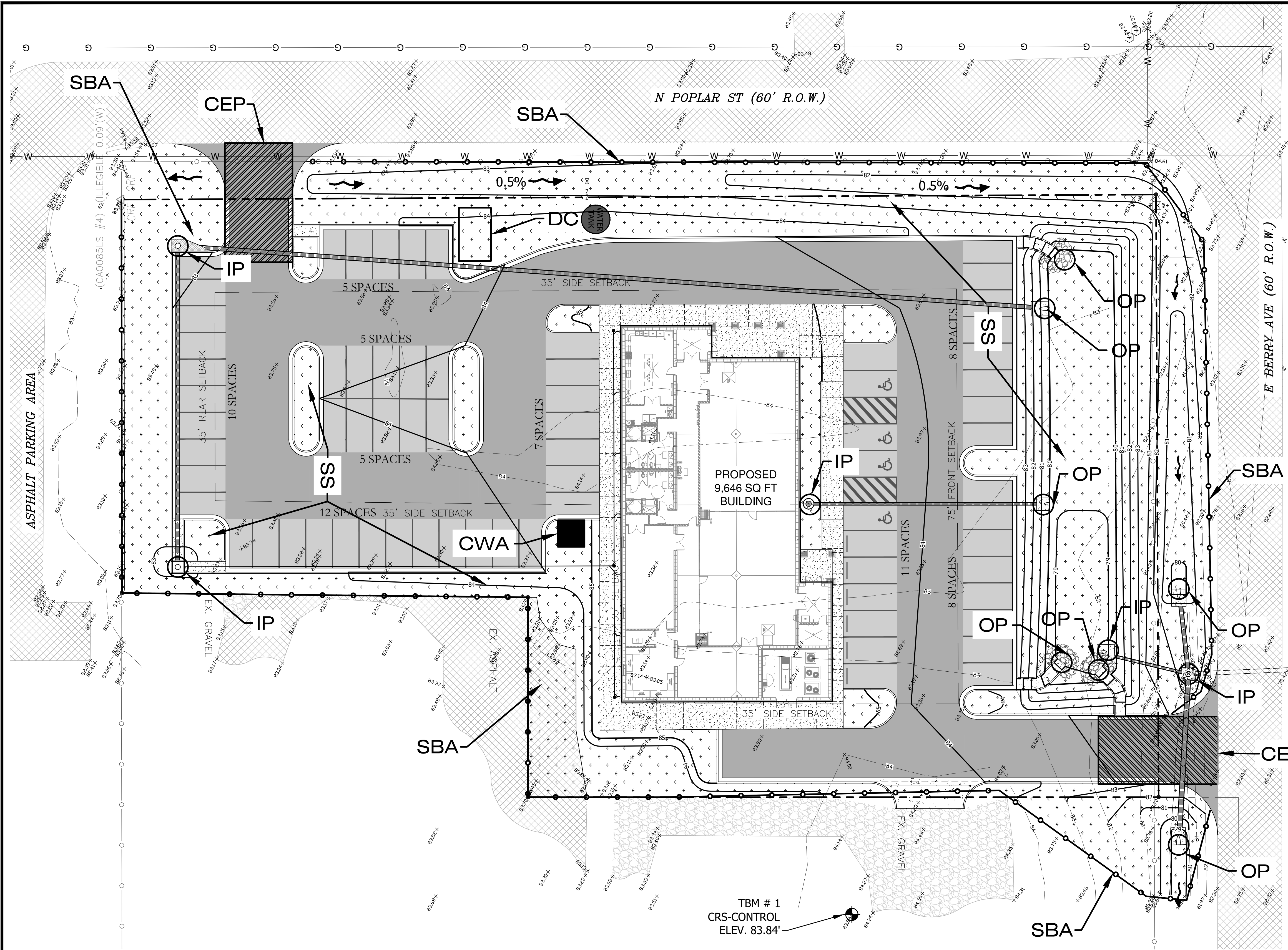
1ST RESPONDERS HURRICANE SHELTER

NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 25-1965

SHEET NO: C7

CIVIL CONSTRUCTION DETAILS (2)

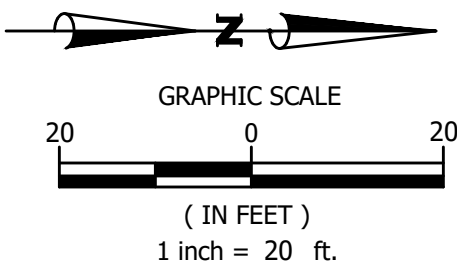


SITE CONSTRUCTION DEBRIS DISPOSAL NOTE:

A DUMPSTER OF SUITABLE SIZE SHALL BE ON-SITE DURING ALL PHASES OF CONSTRUCTION ACTIVITIES AND EMPTIED AT A SUITABLE PERMITTED DISPOSAL SITE AND REPLACED AS NEEDED THROUGHOUT THE DURATION OF THE PROJECT. ALL DISPOSAL SHALL MEET ALL LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS.

RAINFALL INSPECTION NOTE:

ALL EROSION CONTROLS SHALL BE INSPECTED BY A QUALIFIED PERSON WITHIN 24 HOURS OF A RAINFALL EVENT OF 3/4 INCH OR GREATER AND REPAIRED AS NEEDED.



EROSION CONTROL LEGEND

- GS - GRASS SWALE
- IP - INLET PROTECTION
- OP - OUTLET PROTECTION
- DC - DEBRIS CONTAINMENT
- CWA - CONCRETE WASHOUT AREA
- SBA - SEDIMENT BARRIER (SILT FENCE, TYPE A)
- WTL - WATTLE
- SDB - STORMWATER BASIN
- CEP - CONSTRUCTION EXIT PAD
- SS - SOLID SOD/SEED AND MULCH
- OP/RS - RIP RAP OUTLET PROTECTION/RIP RAP LINED SWALE

CONSTRUCTION PHASE SEQUENCE:

PHASE ONE

- INSTALL CONSTRUCTION ENTRANCE/EXIT
- CLEAR AREA REQUIRED FOR SILT FENCE PLACEMENT
- INSTALL SILT FENCE (SBA)

PHASE TWO

- CONSTRUCT AND STABILIZE WATER QUALITY PONDS/SEDIMENT BASINS
- WATTLES, INLET, AND OUTLET PROTECTION TO BE INSTALLED

PHASE THREE

- DEMOLITION AND REMOVAL OF DEMO DEBRIS
- CLEAR/GRUB REMAINING SITE AREAS

PHASE FOUR

- INSTALL STORM DRAINAGE MEASURES
- GRADE SITE TO ROUGH GRADES

PHASE FIVE

- CONSTRUCT UTILITIES (WATER, SEWER)
- BUILDING CONSTRUCTION BEGINS

PHASE SIX

- CONSTRUCT ROADS (PAVING, CURB AND GUTTER, SIDEWALKS)
- BUILDING CONSTRUCTION CONTINUES

PHASE SEVEN

- BUILDING CONSTRUCTION COMPLETED
- STABILIZE DISTURBED AREAS WITH SOLID SOD
- INSTALL PERMANENT LANDSCAPING

PHASE EIGHT

- REMOVE BMP MEASURES

PHASE NINE

- REMOVE SILT FENCE
- CONVERT SEDIMENT BASIN TO PERMANENT FUNCTION POND BY REMOVING CAPTURED SEDIMENT
- PROJECT COMPLETE, FINAL INSPECTION, FILE NOTICE OF TERMINATION

EROSION CONTROL NOTES:

- ALL EROSION CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LATEST ADEM STANDARDS.
- ALL AREAS LEFT UNATTENDED FOR LONGER THAN 13 DAYS SHALL BE COVERED WITH SEASONAL TEMPORARY SEEDING AND MULCHING.
- ALL SLOPES SHALL BE TRACKED PERPENDICULAR TO THE SLOPE.
- NO WORK SHALL COMMENCE UNTIL ALL APPLICABLE EROSION CONTROL MEASURES HAVE BEEN INSTALLED, INSPECTED BY THE PROJECT ENGINEER, AND APPROVED.
- STORMWATER DETENTION POND OR SEDIMENT BASIN SHALL BE CONSTRUCTED, INSPECTED, AND APPROVED PRIOR TO WORK ON ANY OTHER TASK, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.
- ALL DISTURBED AREAS WILL BE PROPERLY STABILIZED. CONTRACTOR TO COORDINATE WITH LANDSCAPE PLAN FOR FINAL PLANTING REQUIREMENTS.
- 4" MIN TOPSOIL TO BE SPREAD ACROSS DISTURBED SURFACES ONCE FINAL GRADING HAS BEEN ESTABLISHED. CONTRACTOR TO PROVIDE SEED/SOD AS PER EROSION CONTROL PLAN AND STABILIZE DISTURBED AREAS PER ADEM REQUIREMENTS.
- BMP'S SHALL BE CLEANED OUT WHEN THEY REACH $\frac{1}{2}$ FULL.
- INACTIVE PROJECTS (MORE THAN 7 DAYS) SHALL BE MULCHED IF INACTIVE FOR LESS THAN 60 DAYS. IF PROJECT TO REMAIN INACTIVE FOR MORE THAN 60 DAYS, PROJECT SHALL BE SEEDED AND MULCHED.
- CONTRACTOR SHALL USE ALL MEANS NECESSARY TO MINIMIZE DUST GENERATION DUE TO CONSTRUCTION ACTIVITIES.

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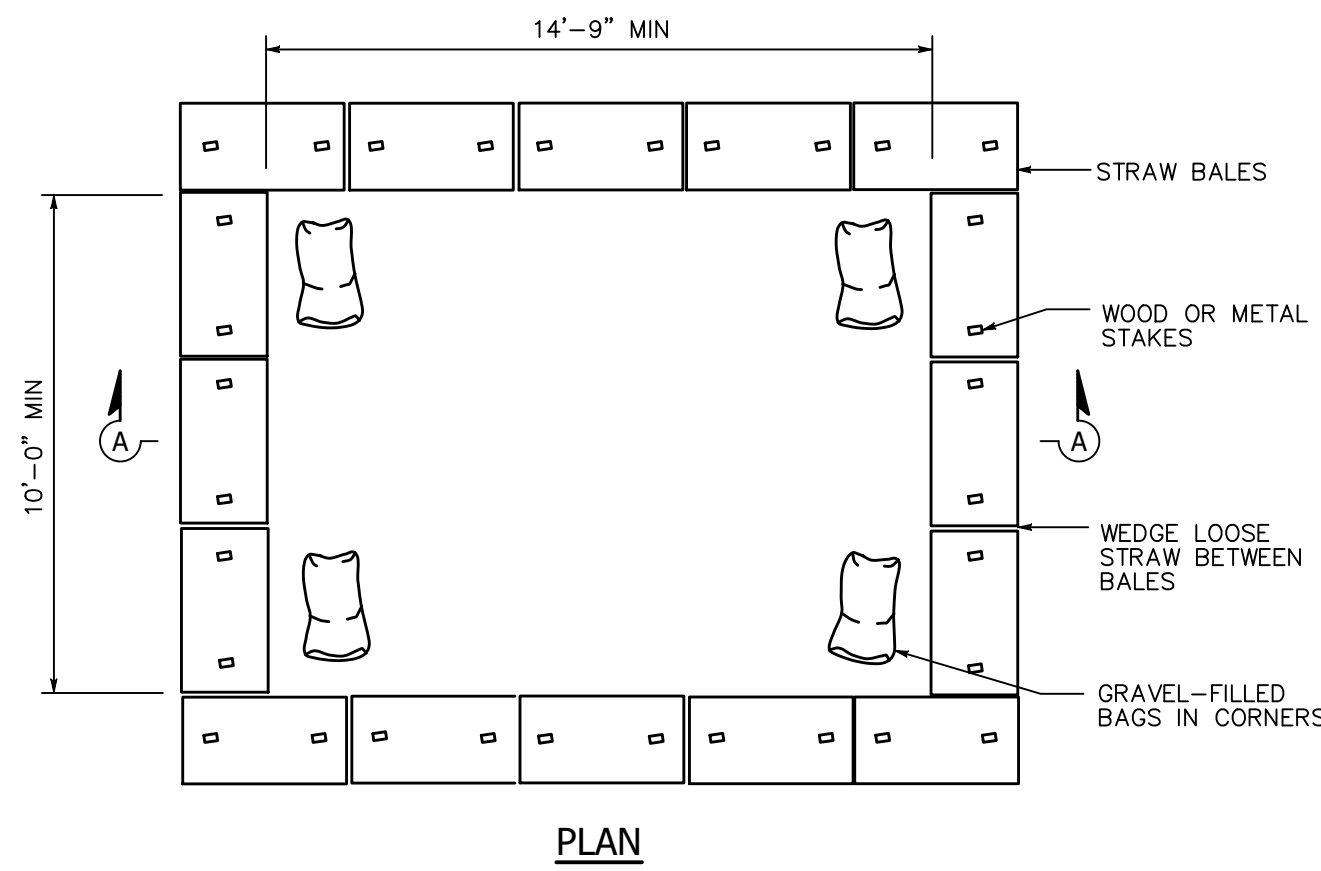
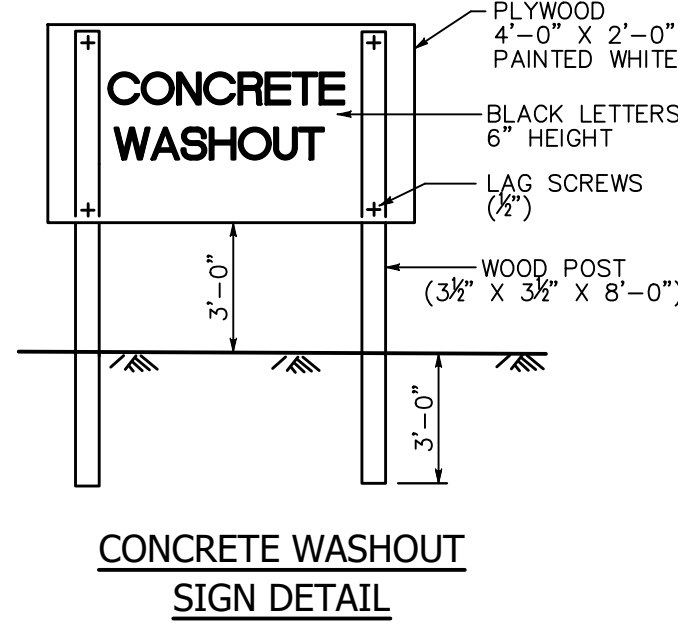
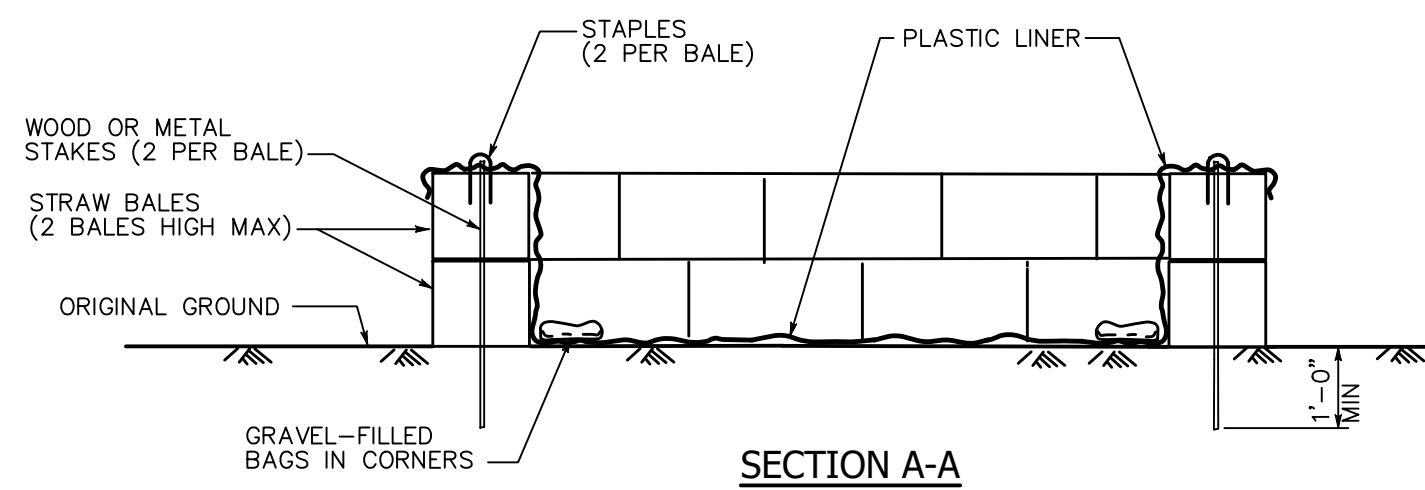
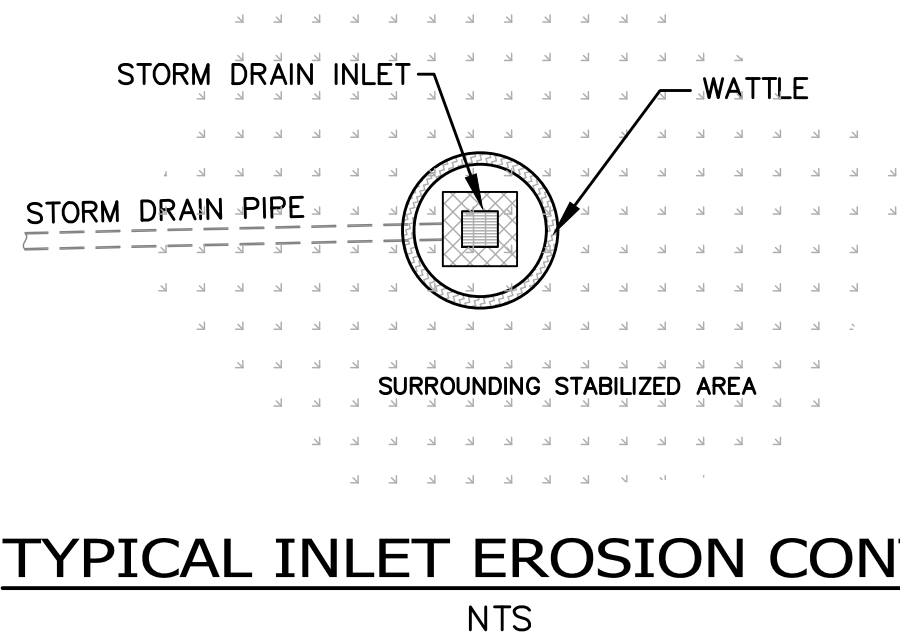
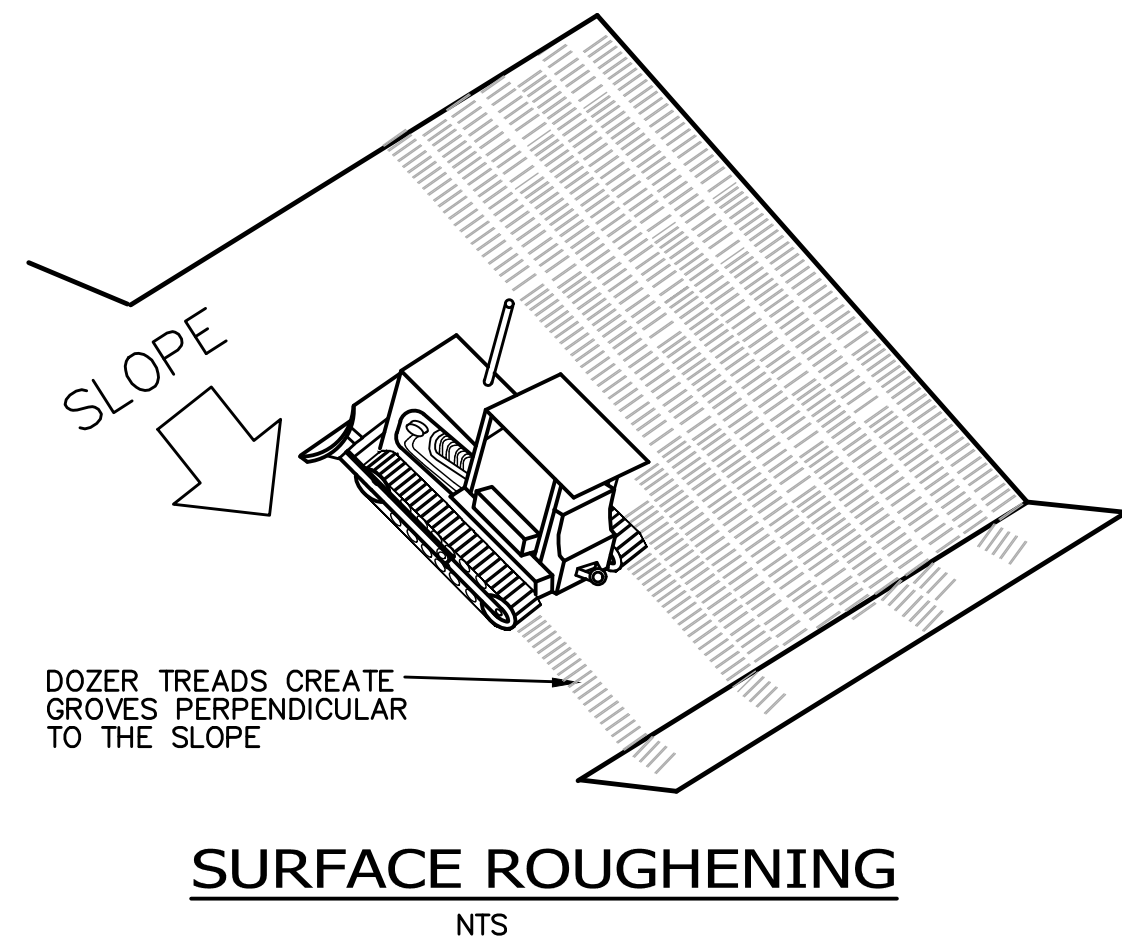
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THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
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ISSUE	DATE	DESCRIPTION
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PROJECT NO: 25-1965
SHEET NO: **C8**
EROSION CONTROL PLAN



TEMPORARY CONCRETE WASHOUT FACILITY
(ON GRADE)

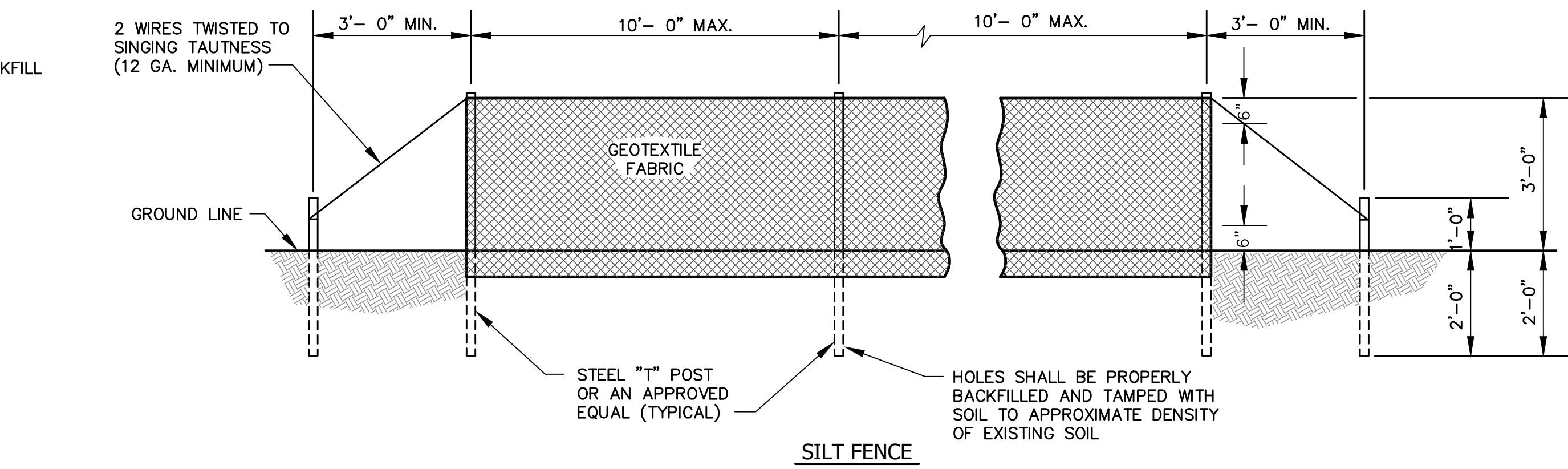
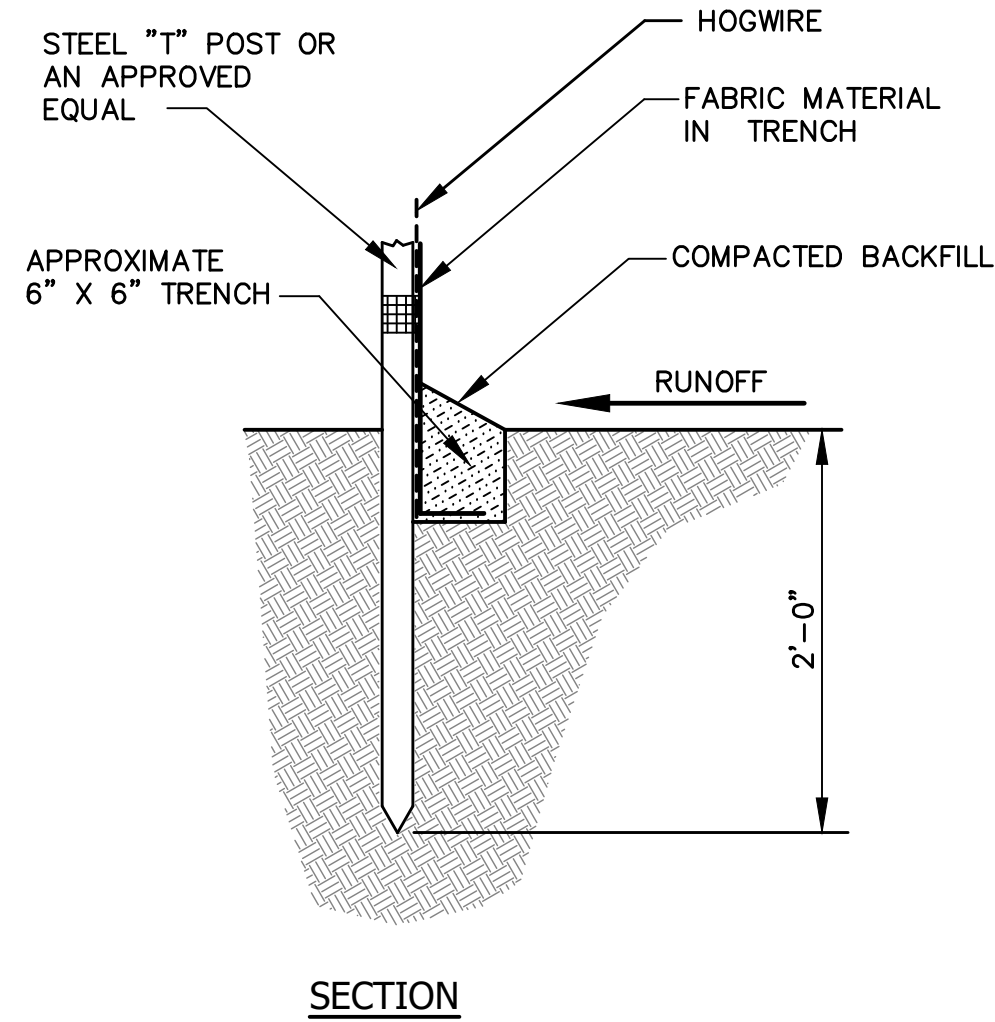
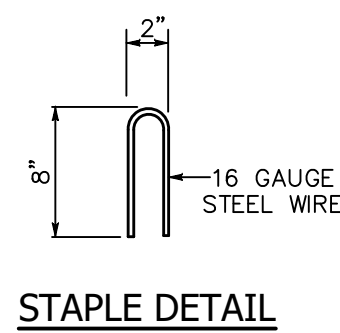


Table SB-1 Specifications for Silt Fence

Specifications	Type A
Tensile Strength (Lbs. Min.) ¹ (ASTM D-4632)	Warp ~ 260 Fill ~ 100
Elongation (% Max.) (ASTM D-4632)	40
AOS (Apparent Opening Size) (Max. Sieve Size) (ASTM D-4751)	no.30
Flow Rate (Gal/Min/Sq. Ft.) (GDT-87)	70
Ultraviolet Stability ² (ASTM D-4632 after 300 hours weathering in accordance with ASTM D-4355)	80
Bursting Strength (PSI Min.) (ASTM D-3786 Diaphragm Bursting Strength Tester)	175
Minimum Fabric Width (Inches)	36

¹ Minimum roll average of 5 specimens.
² Percent of required initial minimum tensile strength.

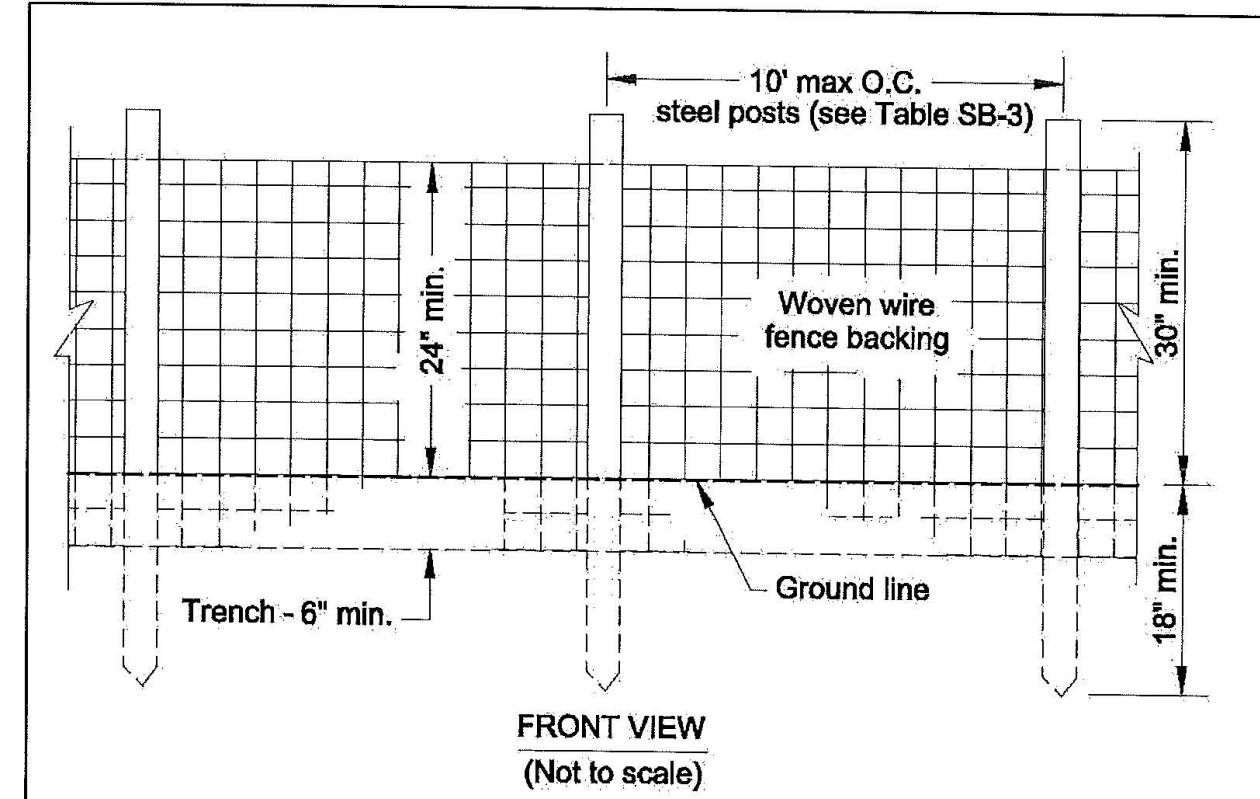
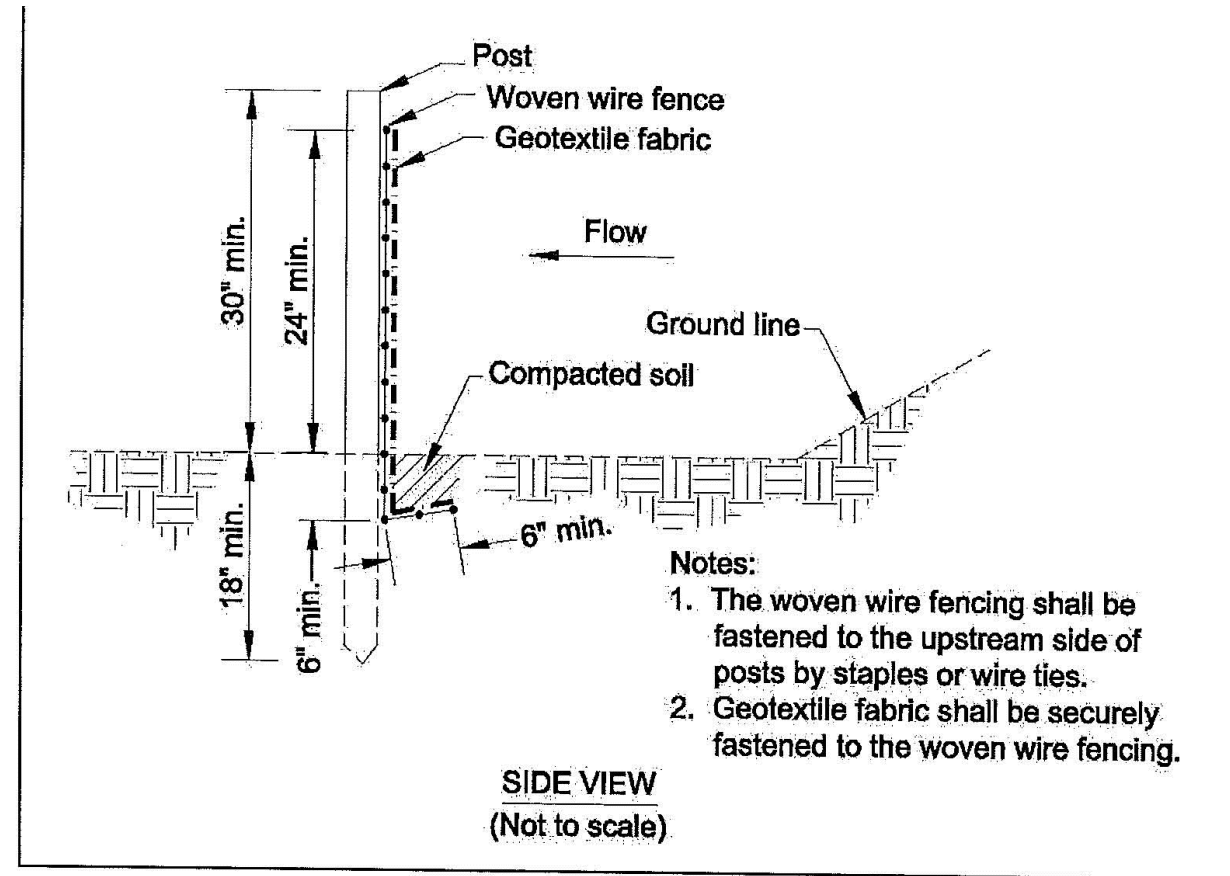
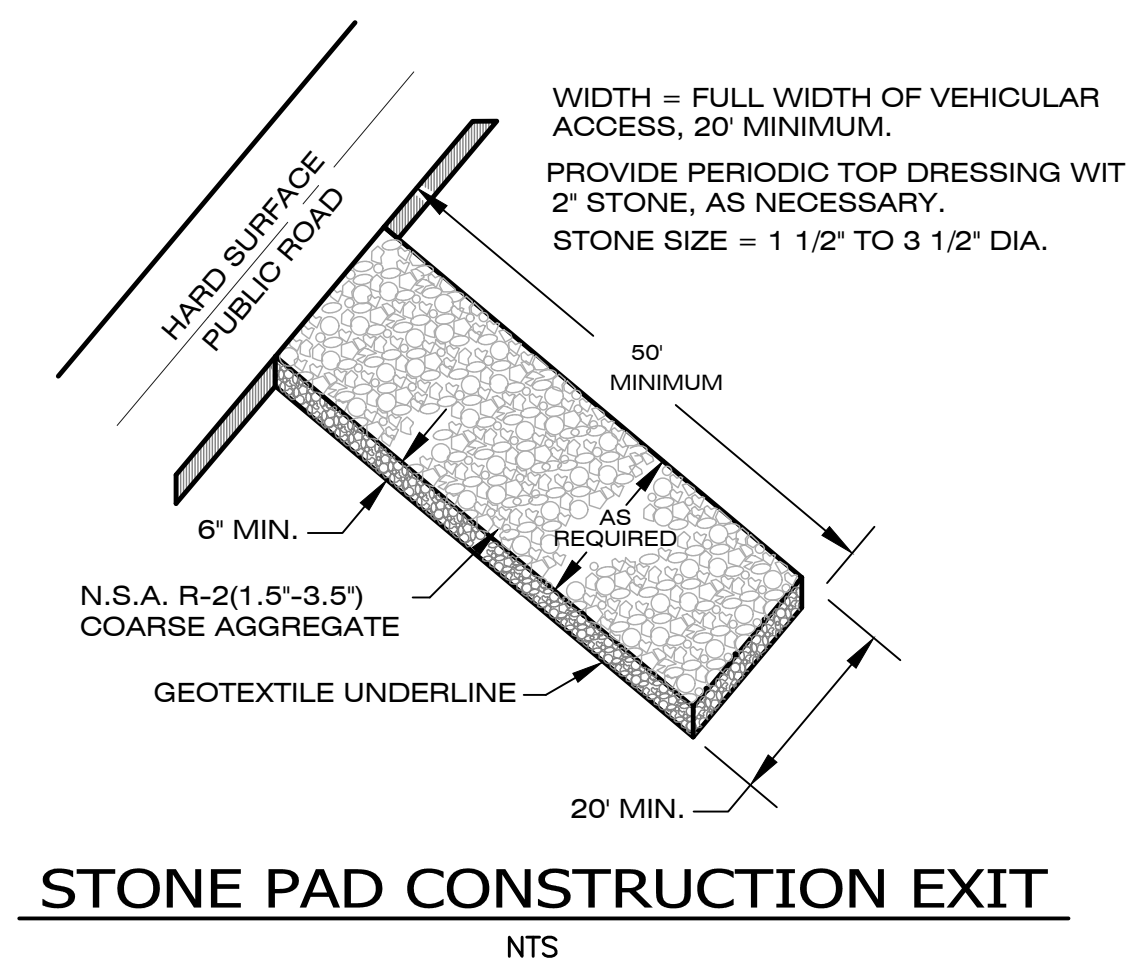
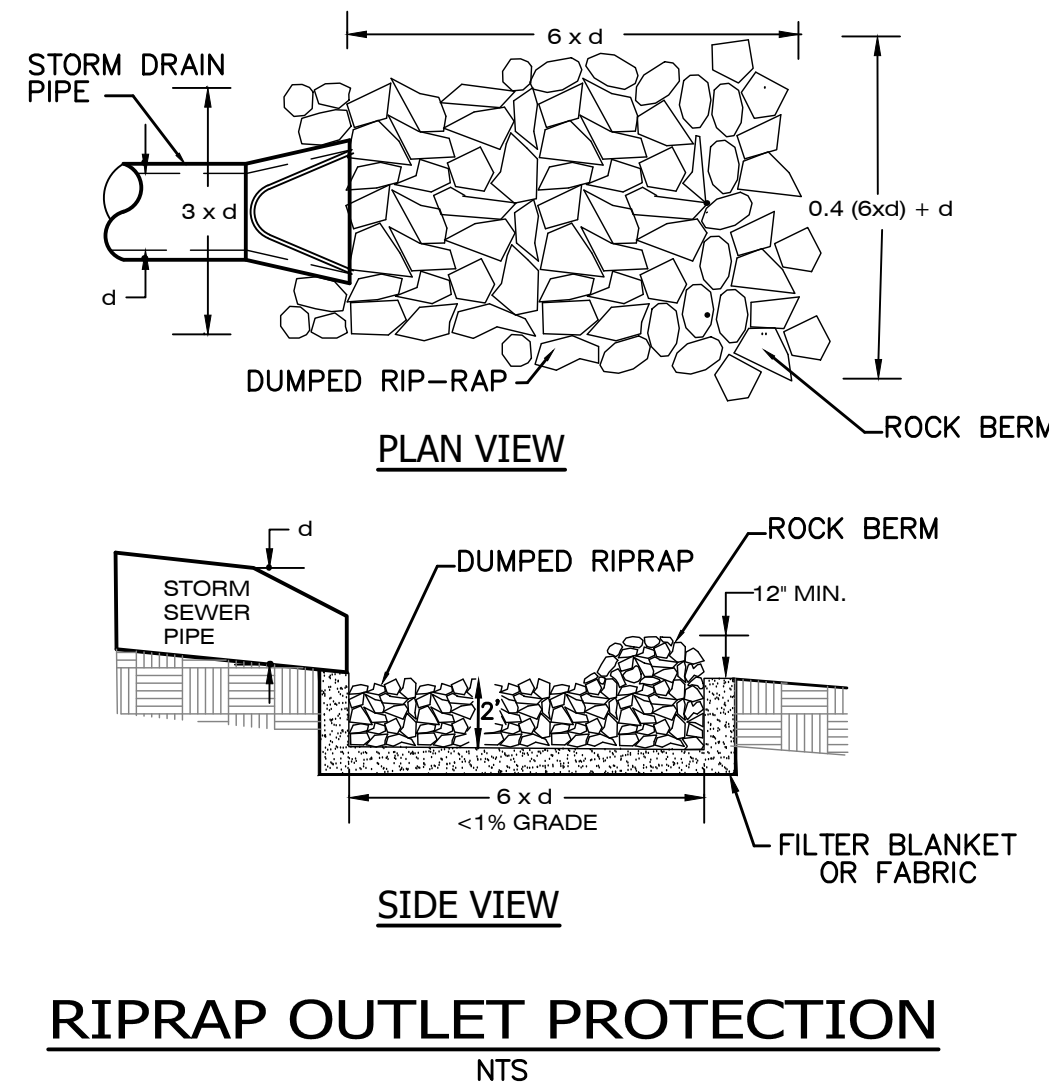


Figure SB-1 Silt Fence-Type A

- (1) For fabric material requirements see Table SB-1
(2) For post material requirements see Tables SB-3 and SB-4

Table SB-3 Post Size for Silt Fence

	Minimum Length	Type of Post	Size of Post
Type A	4'	Steel	1.3lb./ft. min.



- GENERAL NOTES
- TYPE "A" SILT FENCE SHALL BE USED IN AREAS OF CONCENTRATED FLOW.
 - SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
 - SILT FENCE SHOULD BE PLACED WELL INSIDE PROPERTY BOUNDARY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK-UP FENCE IF FIRST BECOMES FULL. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION.
 - WHEREVER POSSIBLE, SILT FENCES SHALL BE CONSTRUCTED ACROSS A FLAT AREA IN THE SHAPE OF A HORSESHOE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
 - AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.
 - RING FASTENERS USED TO SECURE GEOTEXTILES TO WOVEN WIRE SHALL BE 13 GA. (AMERICAN).
 - IF WOOD POSTS ARE USED, STAPLES FOR SECURING WOVEN WIRE TO POSTS SHALL BE NINE (9) GAUGE, GALVANIZED, 1 1/2" LONG, FIVE (5) PER POST @ APPROXIMATELY 1'-0" ON CENTER.
 - WOVEN WIRE TO BE 12 1/2 GAUGE (MINIMUM).

SPECIFICATIONS

CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION AND THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS

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THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 25-1965

SHEET NO:
C9
EROSION CONTROL
DETAILS

- \\SCHNAServer\NAS Server\Work Files\2025 Drawings\6 Adams Stewart Architectural\S0325 City of Foley First Responder Safe Room\S0325S01.dwg

PART I. GENERAL:

- A. These GENERAL NOTES present and/or summarize key project information for the plans reader's convenience. See also individual PLAN NOTES and project specifications for further details and requirements.
- B. These notes shall apply unless otherwise indicated by drawings or specifications.
- C. Where a detail is shown for one condition it shall apply for all like or similar conditions even though not specifically marked on the drawings.
- D. Contractor shall provide adequate bracing or shoring for all work during the construction period.

PART II. DESIGN CRITERIA:

- A. Codes and Specifications:
- General Building Code:
International Building Code, 2018 Edition, ASCE 7-16
 - Storm Shelter Code:
Design and Construction Guidance for Community Safe Rooms, FEMA P-361, 2021
ICC/NSSA Standard for the Design and Construction of Storm Shelters ICC 500-2020
 - Concrete:
Building Code Requirements for Reinforced Concrete (ACI 318-14)
 - Structural Steel:
Specification for Structural Steel Buildings, American Institute of Steel Construction (AISC 360-16)
 - Masonry:
Specifications for Masonry Structures (TMS 602-2016)
Building Code Requirements for Masonry Structures (TMS 402-2016)

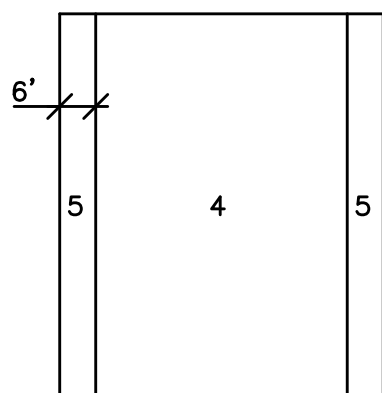
B. Design Lateral Loads:

- Wind Loads for Tornado Shelter:
Basic Wind Speed (3 second gust) 200 mph
Risk Cat. IV (Essential Facility)
Wind Exposure Category C
Enclosure Classification Partially Enclosed
Internal Pressure Coefficients GCPI +/- 0.55
Topographic Factor KZT 1.0
Directionality Factor KD 1.0
For Component and Cladding Loads see below.
Design Base Shear:
Vx 110k
Vy 120k

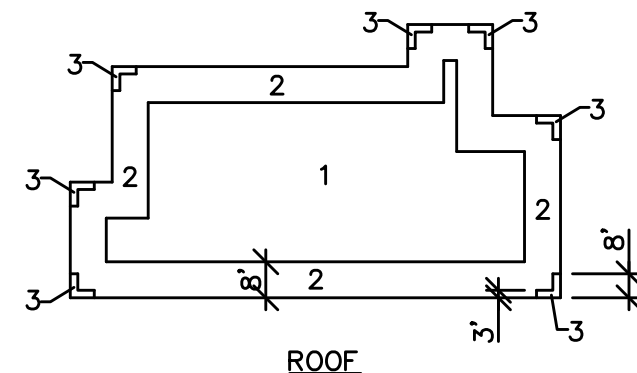
Reference: ASCE7-10 Part I Envelope Procedure.
Figure 30.4-1 Wall External Press. Coef.
Figure 30.4-2A Roof External Press. Coef.

COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF) ULT.			
	EFFECTIVE WIND AREA (FT ²)	200 MPH WIND SPEED	
Zone 4	10	135	-144
	20	131	-139
	50	125	-133
	100	120	-129
Zone 5	10	135	-170
	20	131	-161
	50	125	-149
	100	120	-139

COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF) ULT.			
	EFFECTIVE WIND AREA (FT ²)	200 MPH WIND SPEED	
Zone 1	10	74	-196
	20	72	-187
	50	68	-170
	100	66	-161
Zone 2	10	74	-248
	20	72	-231
	50	68	-214
	100	66	-196
Zone 3	10	74	-327
	20	72	-300
	50	68	-266
	100	66	-231



WALL



ROOF

C. Design Gravity Loads (PSF):

- Design Loads:
10" Hollow Core Concrete Plank 65 psf
Collateral Load 7 psf
Reinforced Concrete Topping Varies From 13" (162 psf)
To 5" (63 psi) Thick
- Roof Live Loads:
Roof 100 psf

GENERAL NOTES:

D. Foundations:

- See Geotechnical/Subsurface Investigation Report by Geo Con Project No. DL 4909-25; Dated: 7-11-25
- Spread footings with a minimum soil bearing capacity of 2000 psf.
 - All column and wall footing excavations shall be checked by a geotechnical engineer for a minimum soil bearing capacity. The results are to be submitted to the structural engineer.
 - If, after excavation, the condition of the soil indicates a bearing capacity of less than the minimum, the structural engineer shall be notified and the footings revised as necessary.
- All footings shall bear on original undisturbed soil, where possible. Any fill shall be placed and compacted per recommendations in soil report.

PART III. CONCRETE:

- A. Concrete shall be proportioned, mixed and placed in accordance with ACI 318 "Building Code Requirements for Reinforced Concrete" and ACI 301 "Specifications for Structural Concrete for Buildings." Minimum compressive strengths of concrete at the end of 28 days shall be:
- Footings: 3000 psi
Interior Slab: 3000 psi
Exterior Slab: 4000 psi
- B. Cement to be Portland type I or approved equal.
- C. Mix design shall be documented in accord with ACI 301, Chapter 3 "Proportioning". Mix designs which are submitted without the required documentation will be rejected. Field slumps recorded at job site shall not exceed the slump established for the mix design.
- D. Concrete clear cover dimensions are 3 inches for faces cast against earth and 2 inches for all other faces except as noted.
- E. Concrete shall be cast against firm soil.
- F. Concrete shall not be poured in water or on frozen ground and shall be protected from frost during construction.
- G. All footing excavations shall be inspected by Geo. Engineer before any concrete is placed.

H. Slabs:

- Construction or control joints shall be provided in slabs on grade as shown or maximum area of slab between joints shall be 400 square feet.
- Welded wire fabric shall conform to ASTM A185. Place welded wire fabric 1 inch from top of concrete unless otherwise noted.
- Concrete Roof Slab to be designed as Composite Slab (Hollow Core + Conc. Topping). Submit Shop Drawings sealed by Engineer licensed in state of Alabama.

I. Reinforcement:

- All detailing, fabrication and placing of reinforcing steel shall be in accordance with the latest "Manual of Standard Practice for Detailing Reinforced Concrete Structures" ACI 315. Reinforcing bars shall be new billet steel conforming to ASTM A615, Grade 60.
 - Bond beams shall be 12" or 8" masonry "U" block reinforced with (2) #5 continuous bars (UN). See typical detail.
 - All continuous bars shall have basic 48 bar diameters tension laps (26" for #5 bars) with corner bars at all corners and wall intersections.
 - All vertical reinforcement in masonry walls shall have 48 bar diameters tension laps.
 - CMU joint reinforcement to be 9 ga truss type spaced not more than 16" o/c above finish floor and not more than 8" o/c below finish floor. Joint reinforcement to be hot-dip galvanized for exterior CMU's. Use prefab corners and tees.
- J. Concrete Masonry Units (CMU):
- Masonry construction shall conform to TMS 602-2016 specifications.
 - Masonry Unit Strength (F'M) shall be 1500 psi at 28 days.
 - Grout Compressive Strength shall be 2500 psf at 28 days.
 - Mortar shall be Type S.
 - All masonry shall be running bond, unless noted.
 - All block cells and cavities below grade shall be filled with concrete or grout.
 - The contractor shall provide detailed shop drawings of the cmu reinforcement. Shop drawings shall include an elevation view of each reinforced wall with all vertical and horizontal reinforcement shown.
 - When reinforcing is specified, provide at each side of control joints, openings and wall ends.
 - Grout shall comply with Table 7 of ACI 530.1/ASCE 6/TMS 602 for dimensions of grout spaces and pour heights.
 - Provide horizontal joint reinforcing in reinforced masonry walls as directed by the Engineer. At wall corners and intersections provide prefabricated T and L shapes. minimum of Dur-O-Wall STD DA 3100 single wythe truss.
 - Where masonry walls support on both sides, backfill each side simultaneously.

WALL THICKNESS	CLEAR SPAN	LINTEL DEPTH	BOTTOM REINFORCING	TOP REINFORCING
12"	UP TO 3'-4"	16"	2 # 5	2 # 5
12"	UP TO 6'-4"	32"	2 # 6	2 # 6

NOTES:

- CONSTRUCTION JOINT SHALL NOT BE LOCATED WITHIN BEARING WIDTH OF CMU LINTEL

CMU LINTEL SCHEDULE

PART IV. TESTING

- A. Foundations and Earthwork, Geotechnical engineer/testing laboratory to be engaged by Contractor.
- B. Materials and Procedures. Testing laboratory to be engaged by Contractor.
- C. Concrete Testing:
One (1) set of three (3) cylinders shall be made for each fifty (50) cubic yards or fraction thereof for each class of concrete in each days' pour. Of each set of test cylinders, one (1) shall be broken at seven (7) days, one (1) shall be broken at twenty eight (28) days, and one (1) held in reserve.

PART V. STRUCTURAL STEEL:

- A. Structural steel detailing, fabrication and erection to be in accordance with the latest edition of the "Manual of Steel Construction" of the American Institute of Steel Construction. All connections are to be made using 3/4" ASTM A-325 bolts. Structural steel shall conform to:
- Steel Beams and Columns ASTM Grade 50, Mill Certifications Required.
 - Steel Plates and Angles ASTM A-36.
 - Tube Steel ASTM A-500 Grade B.
- B. Submit complete set of shop drawings for approval prior to fabrication. Shop drawings shall give complete information including material, member sizes, assembly, erection details and welding, both shop and field, using AWS symbols.
- C. Welding electrodes shall conform to AWS A5.1 E70XX series.
- D. All top of steels are constant between given points.

PART VI. CLEANING AND PAINTING:

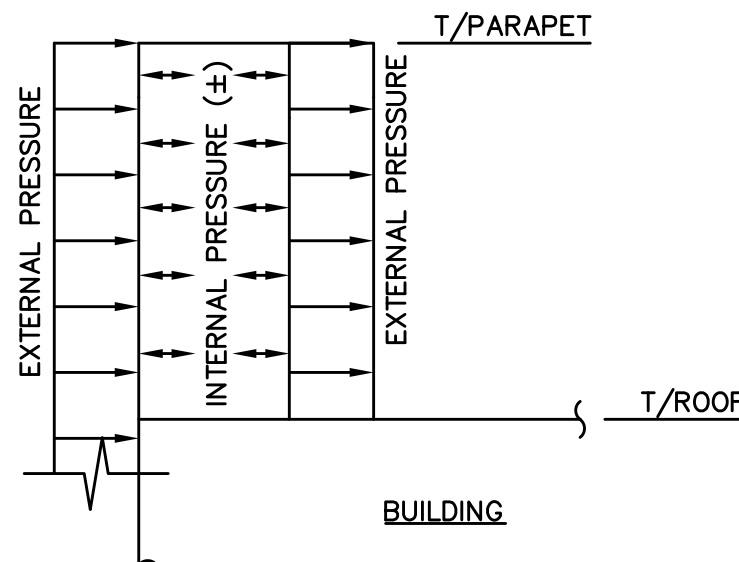
- A. All structural steel surfaces shall be cleaned as specified in SSPC-SP2.
- B. All structural steel shall be primed with one coat of standard shop primer, except all steel, anchor bolts, bolted connections, etc. exposed to the weather to be hot dipped galvanized.

PART VII. ERECTION AND INSTALLATION OF PRESTRESSED CONCRETE PLANKS

- A. Erection shall be carried out by experienced workmen under competent supervision.
- B. Bearing surfaces for plank placement shall be prepared by others to a true and level line. Bearing pads to be neoprene, no substitutions.
- C. Installation of the slabs shall be made by leveling the floor and/or roof units in a workmanlike manner, keeping the units tight and at right angles to the bearing walls or beams.
- D. Slabs shall be grouted by 1:3 cement-sand grout mix with proper care being taken to see that the joints are properly filled. Any grout that may have seeped through shall be removed from ceilings before it hardens.
- E. Co-operation shall be extended to other trades in permitting insertion of hangers, anchors, electrical outlets, etc. Holes for plumbing and heating pipes, electrical conduit, outlet boxes and vents not requiring cutting of prestress strand shall be cut in the field in hollow sections of slabs by the sub-trade concerned. No prestressed strand shall be cut without approval of the manufacturer and engineer. All openings larger than core diameter shall be framed with concrete headers or structural steel hangers in accordance with the design limitations applicable by this contractor.
- F. In those areas indicated on the drawings where concrete planks are to be painted and used as a finished ceiling, the ceiling joints shall be caulked by painting contractor prior to painting, using approved materials and methods. The caulking bead shall be uniform and neatly laid into the joint.
- G. Finally, all work shall be neatly and fully finished and all surplus material and rubbish removed from the premises.

PART VIII. SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS:

- A. The Owner is to hire agencies to perform inspections during construction on the types of work listed under Section 1705 of the 2012 International Building Code. (See Sheet S0.3).
- B. Special inspectors shall keep records of inspections and furnish inspection reports to the building official and to the registered design professional in responsible charge on a weekly basis.
- C. The Engineer of record shall provide Visual Observation of the structural system, for general conformance to the approved plans and specifications, at significant construction stages and at the completion of the structural system. Structural observation does not include or waive the responsibility for the inspections required by the building code. Structural observation reports shall be issued to the Owner, Architect, Contractor, and Building Official at significant construction stages.
- D. See sheet S0.2 for the Structural Quality Assurance Plan.



TYPICAL PARAPET DESIGN
(COMPONENTS AND CLADDING)

EXTERNAL WIND PRESSURE = 137 PSF
AT TOP OF WALL
GCp = +1.5 : GCp = -1.0
PARAPET DESIGN PRESSURE:
(137 PSF x 1.5) + 137 PSF = 342 PSF

PARAPET PRESSURES

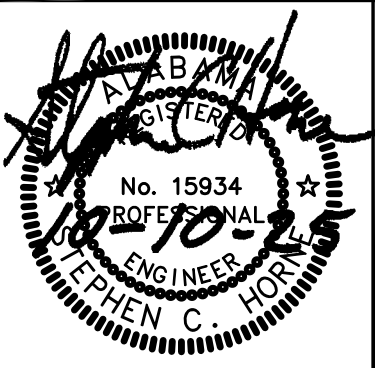
THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027 / S0325

SHEET NO:

GENERAL NOTES
& SCHEDULES

S0.1



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STRUCTURAL QUALITY ASSURANCE PLAN:
(AS REQUIRED BY SECTION 1705 OF THE 2018 INTERNATIONAL BUILDING CODE)

GENERAL NOTES:

This Structural Quality Assurance Plan includes:

1. The Statement of Special Inspections which defines the scope of testing and inspection that is required for this project.

2. The responsibilities of the Contractor.

Refer to other portions of the Construction Documents for Special Inspections required of architectural, mechanical, electrical or other building components.

Special Inspector will be hired by Owner.

Special Inspector shall maintain records of inspections in accordance with Chapter 17 of the 2018 IBC and shall distribute these records to the Building Official, Architect and Structural Engineer on a weekly basis, unless noted otherwise below. Records shall indicate that work inspected/tested was done in conformance to the Construction Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, they shall be brought to the attention of the Building Official, Architect and Structural Engineer prior to completion of that phase of work.

At the conclusion of the project, the Special Inspector shall submit a final report documenting required special inspections and correction of any discrepancies noted in the inspections.

STATEMENT OF SPECIAL INSPECTIONS:

Special Inspector shall perform the following tests and inspections of all structural elements included within this Statement of Special Inspections.

1. The following elements are part of the Seismic–Force–Resisting (SRF) System, and require additional Special Inspections or Testing for Seismic Resistance:

- A. Light Framed Shear Walls.
- B. Roof Diaphragm
- C. Strap Vertical Bracing

2. The following elements are part of the Main Wind–Force–Resisting (MWFR) System and require additional Special Inspections for Wind Resistance:

- A. Light Framed Shear Walls.
- B. Roof Diaphragm
- C. Strap Vertical Bracing

CONTRACTOR RESPONSIBILITIES:

1. Contractor shall submit to the Building Official, Owner and the Architect a written statement of responsibility that contains the following:

- A. Acknowledgement of awareness of the special requirements contained in the Statement of Special Inspections for the main wind – or seismic force–resisting system or a wind – or seismic–resisting component listed in the statement of special inspections.

2. Contractor is responsible to ensure that the Special Inspector is on site as required to perform all tasks required by the Statement of Special Inspection. Any work that requires special inspection and is performed without the Special Inspector being present is subject to being demolished and reconstructed.

3. Contractor has the following responsibilities to the Special Inspector:

- A. Provide copy of Construction Documents to Special Inspector and latest addenda.
- B. Notify Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
- C. Cooperate with Special Inspector and provide access to work.
- D. Provide samples of materials to be tested in required quantities.
- E. Provide storage space for Special Inspector’s exclusive use, such as for storing and curing concrete testing samples.
- F. Provide labor to assist Special Inspector in performing tests/inspections.

ISSUE	DATE	DESCRIPTION
1.	10.10.25	BID DOCUMENTS

THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027 / S0325

SHEET NO:

QUALITY
ASSURANCE
S0.2



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SPECIAL INSPECTIONS:

(AS REQUIRED BY SECTION 1705 OF THE 2018 INTERNATIONAL BUILDING CODE)
(REFERENCE CHAPTER N OF AISC 360–10 AND CHAPTER J OF AISC 341–10)

GENERAL NOTES:

1. STATEMENT OF SPECIAL INSPECTIONS (INCLUDING STRUCTURAL ELEMENTS) TO BE SUBMITTED TO THE BUILDING OFFICIAL BY THE ARCHITECT OF RECORD IN ACCORDANCE WITH SECTION 1704.3 OF THE 2018 INTERNATIONAL BUILDING CODE. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND– OR SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND– OR SEISMIC–RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT AS REQUIRED BY SECTION 1704.4 IN THE 2018 INTERNATIONAL BUILDING CODE.

2. SPECIAL INSPECTORS SHALL CONSIST OF:
1) QUALITY CONTROL INSPECTOR (QCI) TO BE HIRED BY THE FABRICATOR AND ERECTOR FOR STEEL WORK.
2) QUALITY ASSURANCE INSPECTORS (QAI) TO BE HIRED BY THE OWNER.

3. SPECIAL INSPECTIONS AS REQUIRED BY SECTION 1704.2.5 SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH SECTION 1704.2.5.1. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

4. THE TYPES OF WORK SHOWN IN THE TABLES ON SHEET S0.3 & S0.4 REQUIRE SPECIAL INSPECTIONS.

LATERAL FORCE RESISTING SYSTEM – DESIGN SUMMARY

WIND RESISTANCE:

Exposure Category – C

Wind Speed (3 Second Gust) – 200 mph , Risk Cat. = 4

Longitudinal & Transverse Direction:

BUILDING:

Wind Force Resisting System – Bearing Wall System

Designated Wind Systems – Ordinary Reinforcement Masonry Shear Walls

TABLE 1705.3 (2018 IBC)				
(REQUIRED SPECIAL INSPECTIONS AND TESTING OF CONCRETE CONSTRUCTION)				
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD ^a	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT.	—	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1–26.6.3	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. b. INSPECT SINGLE–PASS FILLET WELDS, MAXIMUM $\frac{3}{16}$ ", AND c. INSPECT ALL OTHER WELDS.	X	X	AWS D1.4 ACI 318: 26.6.4	—
3. INSPECT ANCHORS CAST IN CONCRETE	—	X	ACI 318: 17.8.2	—
4. INSPECT ANCHORS POST–INSTALLED IN HARDENED CONCRETE MEMBERS. ^b a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a.	X	X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	—
5. VERIFY USE OF REQUIRED DESIGN MIX	—	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 19.4.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C 172 ASTM C31 ACI 318:26.5, 26.12	1910.10
7. INSPECT CONCRETE AND SHOTORETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	—	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318:26.5.3–26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES, AND b. GROUTING OF BONDED PRESTRESSING TENDONS	X X	—	ACI 318: 26.10	—
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	—	X	ACI 318: 26.9	—
11. VERIFY IN–SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST– TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	—	X	ACI 318: 26.11.2	—
12. INSPECT FORM WORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 26.11.1.2(b)	—
FOR SI: 1 INCH = 25.4 mm. a. WHERE APPLICABLE, SEE ALSO SECTION 1705.12 SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE. b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.				

INSPECTIONS OF CONCRETE CONSTRUCTION

TABLE 1705.6 (2018 IBC)		
(REQUIRED SPECIAL INSPECTIONS AND TESTING OF SOILS)		
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X

INSPECTIONS OF SOILS

THE CITY OF FOLEY

1ST RESPONDERS HURRICANE SHELTER

NORTH POPLAR STREET

FOLEY, ALABAMA 36535

PROJECT NO: 24-027 / S0325

SHEET NO:

SPECIAL INSPECTIONS

S0.3

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TABLE N5.4-1 (AISC 360-10)			
(INSPECTION TASKS PRIOR TO WELDING STRUCTURAL STEEL)			
INSPECTION TASKS PRIOR TO WELDING	QC	QA	
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P	
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P	
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O	
MATERIAL IDENTIFICATION SYSTEM ¹	O	O	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)			
• JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O	
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	
FIT-UP OF FILLET WELDS			
• DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	O	
CHECK WELDING EQUIPMENT	O	-	

¹ THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

NOTES:

1. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
2. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY THE OWNER.
3. "P" INDICATES PERFORMING THESE TASKS FOR EACH WELDED JOINT OR MEMBER.
4. "O" INDICATES OBSERVING THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

INSPECTION TASKS DURING WELDING	QC	QA
USE OF QUALIFIED WELDERS	0	0
CONTROL AND HANDLING OF WELDING CONSUMABLES * PACKAGING * EXPOSURE CONTROL	0	0
NO WELDING OVER CRACKED TACK WELDS	0	0
ENVIRONMENTAL CONDITIONS * WIND SPEED WITHIN LIMITS * PRECIPITATION AND TEMPERATURE	0	0
WPS FOLLOWED * SETTING ON WELDING EQUIPMENT * TRAVEL SPEED * SELECTED WELDING MATERIALS * SHIELDING GAS TYPE/FLOW RATE * PREHEAT APPLIED * INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) * PROPER POSITION (F, V, H, OH)	0	0
WELDING TECHNIQUES * INTERPASS AND FINAL CLEANING * EACH PASS WITHIN PROFILE LIMITATIONS * EACH PASS MEETS QUALITY REQUIREMENTS	0	0
NOTES: 1. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 2. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY THE OWNER. 3. "P" INDICATES PERFORMING THESE TASKS FOR EACH WELDED JOINT OR MEMBER. 4. "0" INDICATES OBSERVING THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.		

INSPECTION TASKS AFTER WELDING	QC	QA
WELDS CLEANED	O	O
SIZE, LENGTH AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD/BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES * WELD SIZE * UNDERCUT * POROSITY	P	P
ARC STRIKES	P	P
K-AREA ¹	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
REPAIR ACTIVITIES	P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P

¹ WHEN WELDING DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN A K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 in. (75 mm) OF THE WELD.

NOTES:

1. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
2. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY THE OWNER.
3. "P" INDICATES PERFORMING THESE TASKS FOR EACH WELDED JOINT OR MEMBER.
4. "O" INDICATES OBSERVING THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

INSPECTIONS OF WELDING STRUCTURAL STEEL

TABLE N5.6-1 (AISC 360-10)		
(INSPECTION TASKS PRIOR TO BOLTING STRUCTURAL STEEL)		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O
NOTES: 1. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 2. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY THE OWNER. 3. "P" INDICATES PERFORMING THESE TASKS FOR EACH BOLTED CONNECTION. 4. "O" INDICATES OBSERVING THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.		

INSPECTION TASKS DURING BOLTING	QC	QA
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRE TENSIONING OPERATION	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		O
FASTENERS ARE PRE TENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIDGED POINT TOWARD THE FREE EDGES	O	O

NOTES:

1. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
2. QUALITY ASSURANCE (QA) SHALL BY PROVIDED BY THE OWNER.
3. "P" INDICATES PERFORMING THESE TASKS FOR EACH BOLTED CONNECTION.
4. "O" INDICATES OBSERVING THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

<u>TABLE N5.6-3 (AISC 360-10)</u> (INSPECTION TASKS AFTER BOLTING STRUCTURAL STEEL)		
INSPECTION TASKS AFTER BOLTING	QC	QA
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P

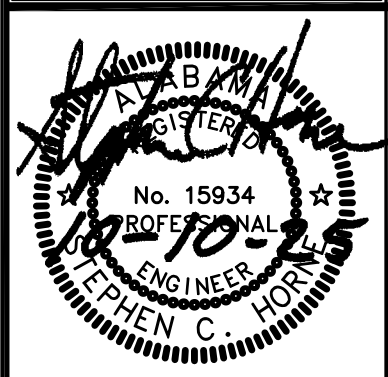
NOTES:

1. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
2. QUALITY ASSURANCE (QA) SHALL BY PROVIDED BY THE OWNER.
3. "P" INDICATES PERFORMING THESE TASKS FOR EACH BOLTED CONNECTION.
4. "O" INDICATES OBSERVING THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

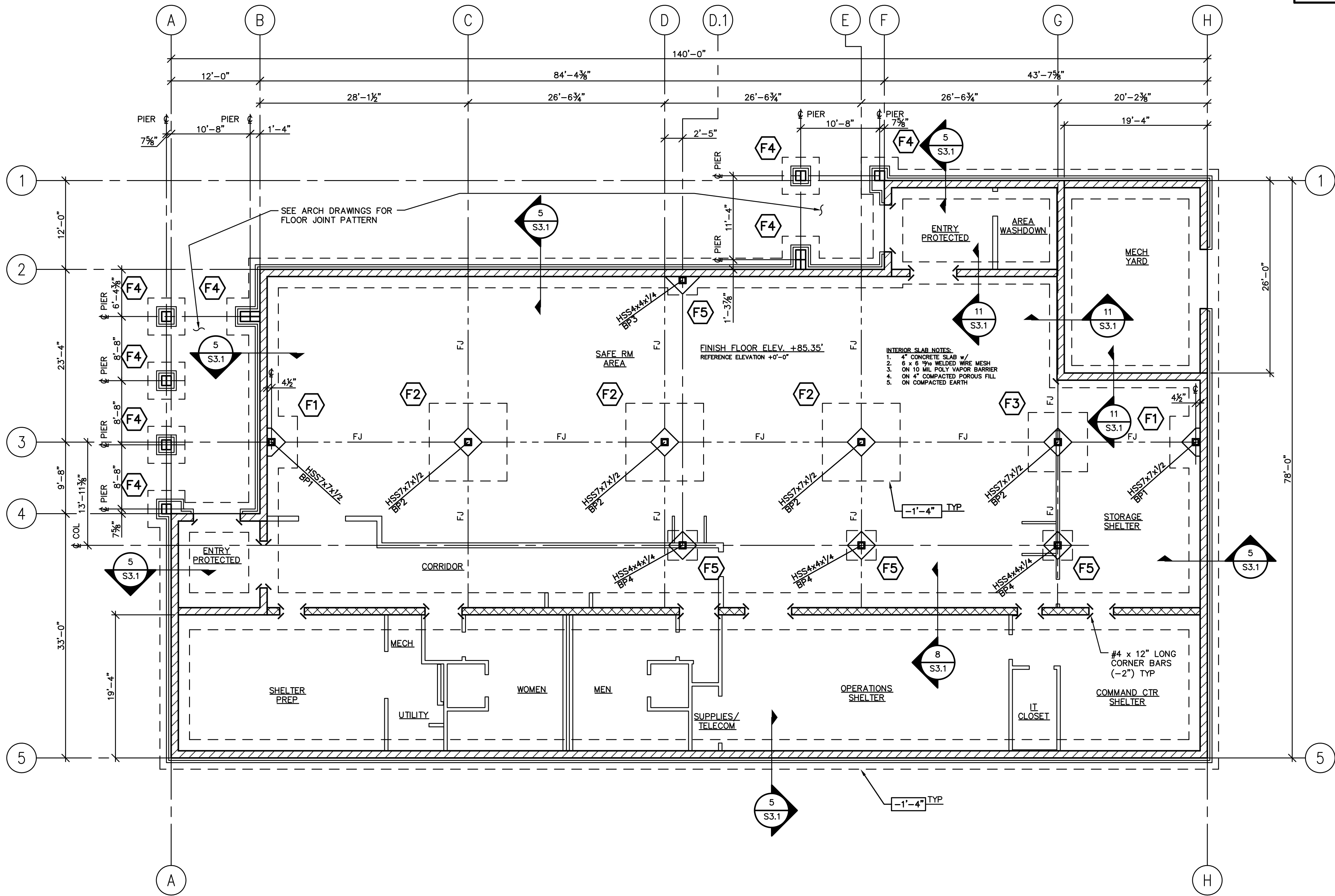
INSPECTIONS OF BOLTING STRUCTURAL STEEL

TABLE 3.1.3-LEVEL C (ACI 530-11)				
(REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION)				
MINIMUM TESTS				
VERIFICATION OF f'_m AND f'_{AAC} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION AND FOR EVERY 5,000 SQ. FT (465 SQ. M) DURING CONSTRUCTION				
VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT, AS DELIVERED TO THE PROJECT SITE				
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT				
MINIMUM SPECIAL INSPECTION				
INSPECTION TASK	FREQUENCY ^(a)		REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	TMS 602/ ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.		X		ART. 1.5
2. VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIONS OF SITE-MIXED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X		ART. 2.1, 2.6 A, 2.6 B, 2.6 C, 2.4G.1.b
b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	SEC. 6.1	ART. 2.4, 3.4
c. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS		X		ART. 3.3 B
d. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	X		SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2 E, 3.4, 3.6 A
e. GROUT SPACE PRIOR TO GROUTING	X			ART. 3.2 D, 3.2 F
f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	X			ART. 3.5, 3.6 C
g. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X		ART. 3.3 F
h. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	X		SEC. 1.2.1(e), 6.1.4.3, 6.2.1	
i. WELDING OF REINFORCEMENT	X		SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)	
j. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))		X		ART. 1.8 C, 1.8 D
k. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X			ART. 3.6 B
l. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X			ART. 3.3 B.9, 3.3 F.1.b
m. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X			ART. 2.1 C.1
3. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	X			ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4
a. FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.				

INSPECTIONS OF MASONRY CONSTRUCTION

[illegible]

-USCHNAServerNAS SevenWork Files\2025 Drawings\Adams Stewart Architectural\S0325 City of Foley First Responder Safe Room\S0325S11.dwg



FOUNDATION PLAN

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

MARK	SIZE	REINFORCEMENT	REMARKS
F1	7'-0" SQ x 1'-6" DEEP	(9) # 6's E.W. T&B	8/S3.2 (SIM)
F2	10'-6" SQ x 2'-0" DEEP	(12) # 6's E.W. T&B	8/S3.2
F3	8'-0" SQ x 2'-0" DEEP	(10) # 6's E.W. T&B	8/S3.2
F4	5'-0" SQ x 2'-0" DEEP	(7) # 6's E.W. T&B	10/S3.2
F5	4'-0" SQ x 1'-0" DEEP	(5) # 5's E.W.	11/S3.2

CMU WALL LEGEND

- INDICATES 12" CMU WALL w/ #5 VERTICAL BARS AT 16"o.c. FILL ALL CELLS w/ 3000 psi CONCRETE.
- INDICATES 12" CMU WALL w/ #5 VERTICAL BARS AT 24"o.c. FILL CELL w/ 3000 psi CONCRETE.
- INDICATES BRICK VANNER (SEE ARCHITECTURAL)

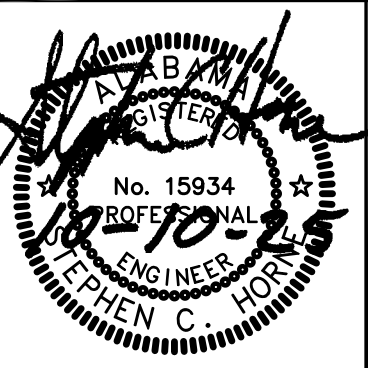
CONTRACTOR NOTES:

- FOR ALL EXTERIOR WALLS, FILL ALL VOID CELLS WITH 3000psi CONC GROUT (WIND-BORNE MISSILE BARRIER)
- DO NOT PROVIDE ANY MASONRY CONTROL JOINTS IN CMU WALLS.
- DO NOT TIE THE EQUIPMENT YARD CMU INTO SHELTER CMU.

NOTES:

- FOR GENERAL NOTES AND SCHEDULES SEE SHEET S0.1.
- FOR SPECIAL INSPECTIONS SEE SHEET S0.2 AND S0.3.
- FOR ROOF FRAMING PLAN SEE SHEET S1.2.
- FOR SECTIONS AND DETAILS SEE SHEETS S3.1, S3.2, S3.3 AND S3.4.
- INDICATES GENERATOR CONCRETE PAD 11' LONG x 5' WIDE x 8" THK. FINAL PAD SIZE SHOULD EXTEND 6" PAST ACTUAL PURCHASED GENERATOR FOOTPRINT. CO-ORD FINAL LOCATION WITH MECHANICAL DRAWINGS. SEE 2/S3.2.
- INDICATES FOOTING TYPE, SEE SCHEDULE THIS SHEET FOR FOOTING SIZE AND REINFORCEMENT.
- BP# INDICATES BASE PLATE SIZE, SEE DETAIL 1/S3.2.
- INDICATES FOOTING STEP, SEE DETAIL 1/S3.2.
- INDICATES TOP OF FOOTING ELEVATION BELOW FINISH FLOOR ELEVATION +0'-0".
- +###.# INDICATES PRELIMINARY FINISH GRADE ELEVATION.
- FJ INDICATES FLOOR CONTROL JOINT. FOR DETAILS SEE 1/S3.1, 2/S3.1 & 3/S3.1.
- FOR MASONRY OPENINGS SEE LINTEL SCHEDULE ON S0.1, UNLESS LINTEL IS STEEL BEAM SHOWN ON S1.2.

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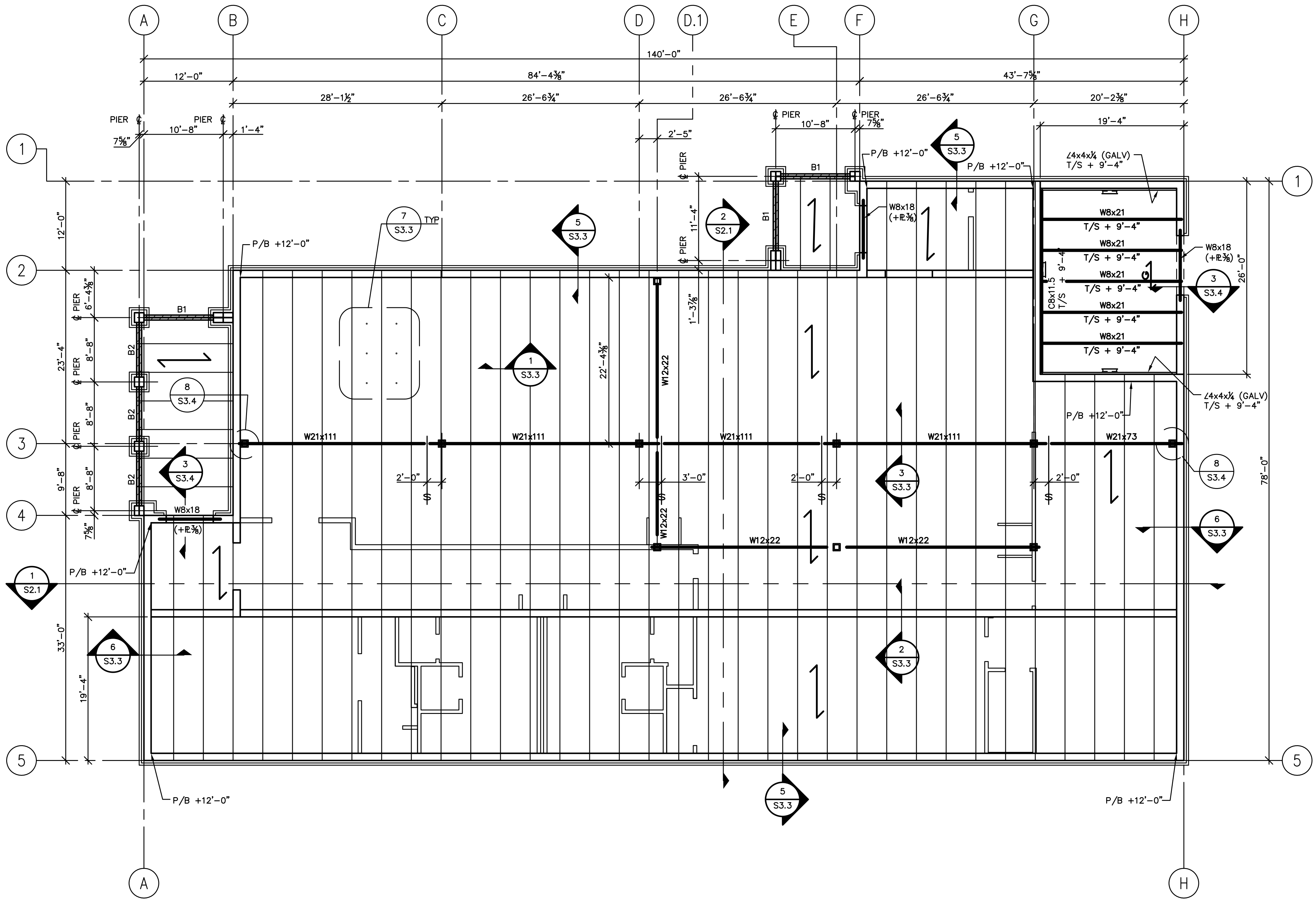
ISSUE DATE DESCRIPTION
1. 10.10.25 BID DOCUMENTS

THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027 / S0325

SHEET NO:

FOUNDATION
PLAN
S1.1



ROOF DESIGN LOADS: (SUPERIMPOSED)
LIVE LOAD = 100 psf (PER ICC 500-2020)
DEAD LOAD = CONCRETE TOPPING VARIES
FROM 163 psf TO 63 psf
COLLATERAL LOAD = 7 psf
NET UPLIFT = 0

EQUIPMENT ROOF DESIGN LOADS:
LIVE LOAD = 100 psf

CONTRACTOR NOTE:
THE ROOF PLANK AND CONCRETE TOPPING ARE TO BE DESIGNED AS A COMPOSITE SLAB SECTION. SEE PLAN FOR TOPPING THICKNESS. CLEAN AND PREPARE PLANK SURFACE PER PCI (PRECAST/PRESTRESSED CONCRETE INSTITUTE) PRIOR TO POURING CONCRETE TOPPING.

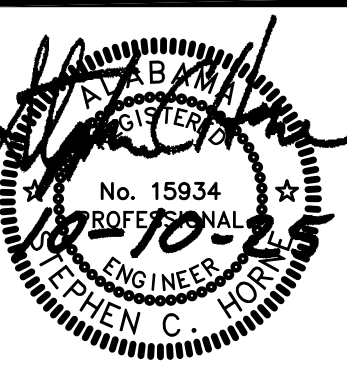
- NOTES:
- FOR GENERAL NOTES AND SCHEDULES SEE SHEET S0.1.
 - FOR SPECIAL INSPECTIONS SEE SHEET S0.2 AND S0.3.
 - FOR FOUNDATION PLAN SEE SHEET S1.1.
 - FOR SECTIONS AND DETAILS SEE SHEETS S3.1, S3.2 AND S3.3.
 - INDICATES 4' WIDE HOLLOW CORE 10" PRESTRESSED CONCRETE PLANKS w/ CONCRETE TOPPING w/ #4 HORIZ BARS @ 12" o.c. E.W. (STRUCTURAL ROOF DIAPHRAGM).
 - INDICATES 1" x 1/8" GALV STEEL GRATING. GRATING TO BE IN PANELS MAX 8'-0" LONG. USE (GALV.) STUCT-FAST GRATING CLIP FASTENERS TO STEEL BEAMS.
 - ALL EQUIPMENT YARD STEEL, BOLTS, ETC. TO BE HOT DIPPED GALVANIZED.
 - INDICATES BEAM SPLICE, SEE 5/S3.4 FOR DETAIL.
 - P/B INDICATES PLANK BEARING
 - B1, B2 INDICATES ROLLED BEAM, SEE 11 AND 13 ON SHEET S3.4.
 - INDICATES 8" CMU WITH #6 VERTICAL BAR IN EACH CELL. FILL CELLS WITH 3000 psi CONCRETE.

ROOF FRAMING PLAN

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

PLANK BEARING +12'-0"

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THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027 / S0325

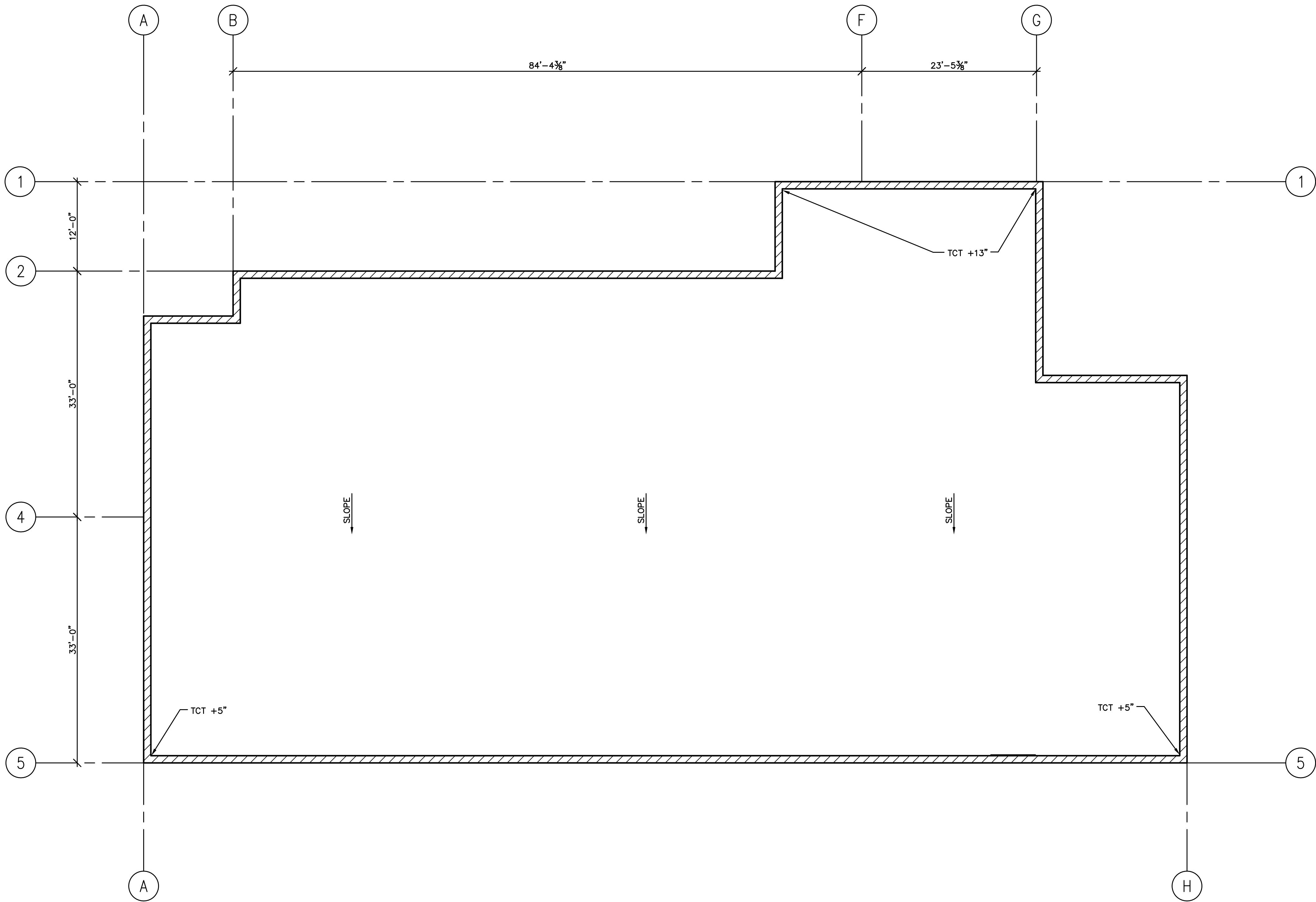
SHEET NO:

ROOF FRAMING
PLAN
S1.2

-:\SCHN\Server\NAS Server\Work Files\2025 Drawings\Adams Stewart Architectural\S0325 City of Foley First Responder Safe Room\S0325S13.dwg

CONCRETE TOPPING PLAN

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



ROOF DESIGN LOADS: (SUPERIMPOSED)
LIVE LOAD = 100 psf (PER ICC 500-2020)
DEAD LOAD = CONCRETE TOPPING VARIES
FROM 163 psf TO 63 psf
COLLATERAL LOAD = 7 psf
NET UPLIFT = 0

CONTRACTOR NOTE:

THE ROOF PLANK AND CONCRETE TOPPING ARE TO BE DESIGNED AS A COMPOSITE SLAB SECTION. SEE PLAN FOR TOPPING THICKNESS. CLEAN AND PREPARE PLANK SURFACE PER PCI (PRECAST/PRESTRESSED CONCRETE INSTITUTE) PRIOR TO POURING CONCRETE TOPPING.

NOTES:

1. FOR GENERAL NOTES AND SCHEDULES SEE SHEET S0.1.
2. FOR SPECIAL INSPECTIONS SEE SHEET S0.2 AND S0.3.
3. FOR FOUNDATION PLAN SEE SHEET S1.1.
4. FOR SECTIONS AND DETAILS SEE SHEETS S3.1, S3.2 AND S3.3.
5. TCT INDICATES TOP OF CONCRETE TOPPING ABOVE TOP OF HOLLOW CORE PLANKS.

PLANK BEARING +12'-0"

THE CITY OF FOLEY

1ST RESPONDERS HURRICANE SHELTER

NORTH POPLAR STREET

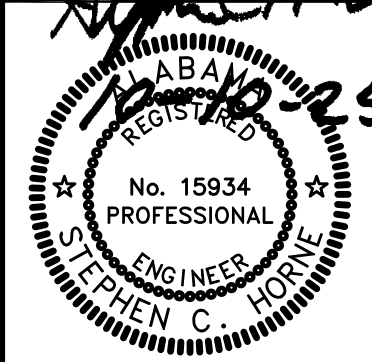
FOLEY, ALABAMA 36535

PROJECT NO: 24-027 / S0325

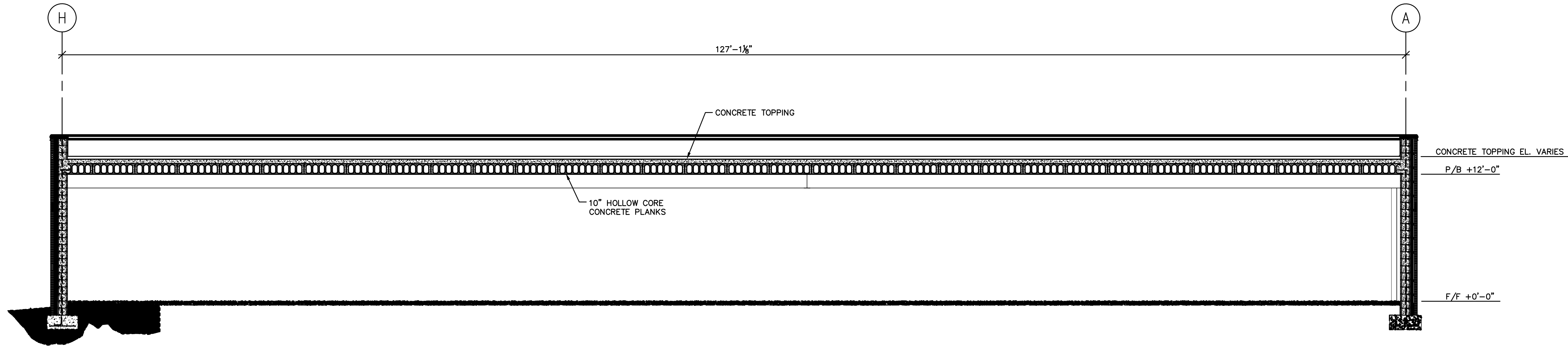
SHEET NO:

CONCRETE TOPPING
PLAN

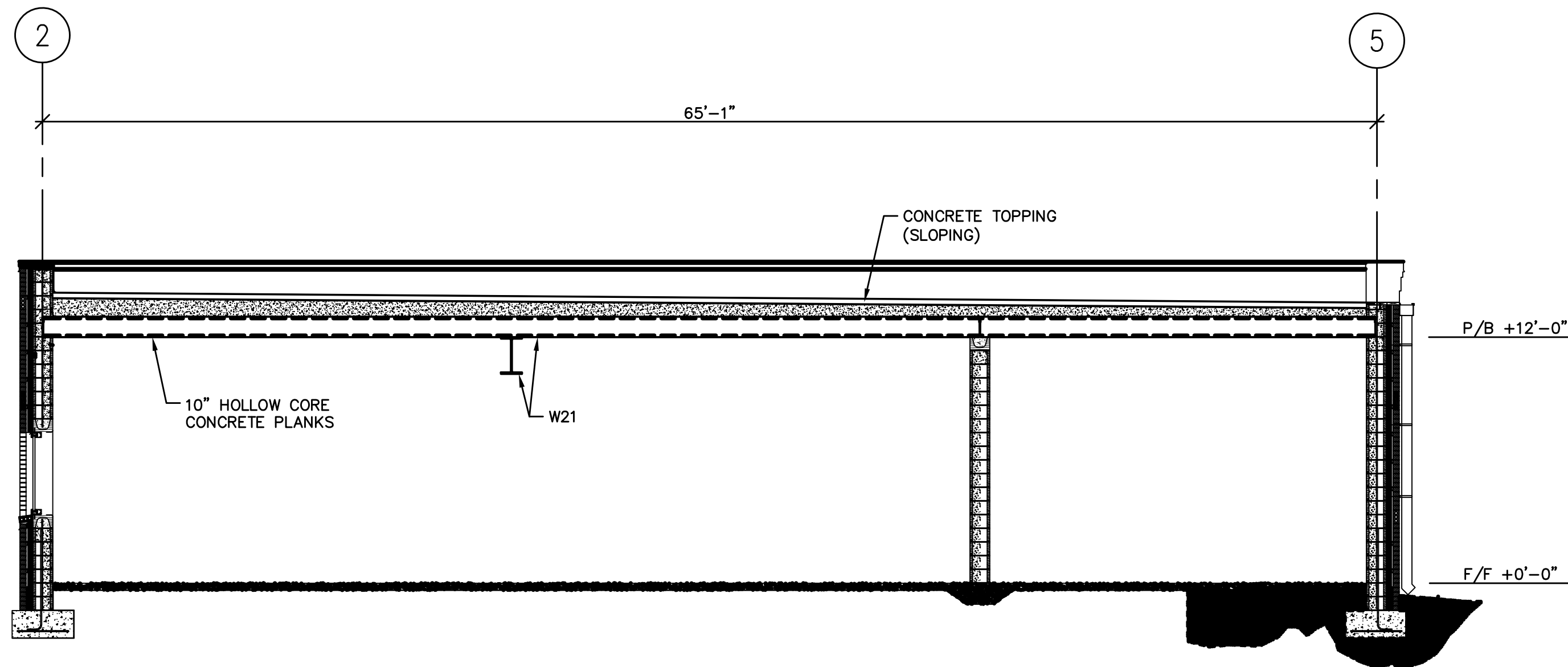
S1.3



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



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

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ISSUE	DATE	DESCRIPTION
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THE CITY OF FOLEY

1ST RESPONDERS HURRICANE SHELTER

NORTH POPLAR STREET

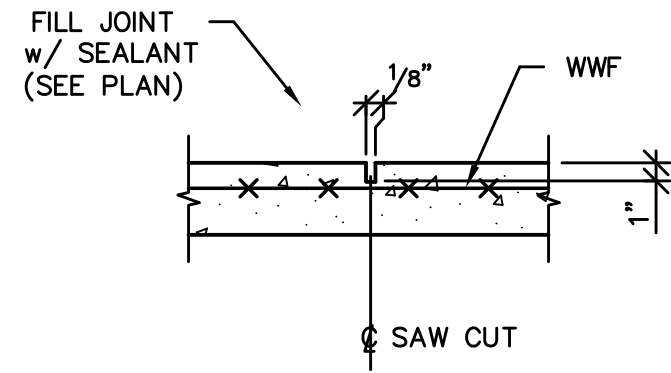
FOLEY, ALABAMA 36535

PROJECT NO: 24-027 / S0325

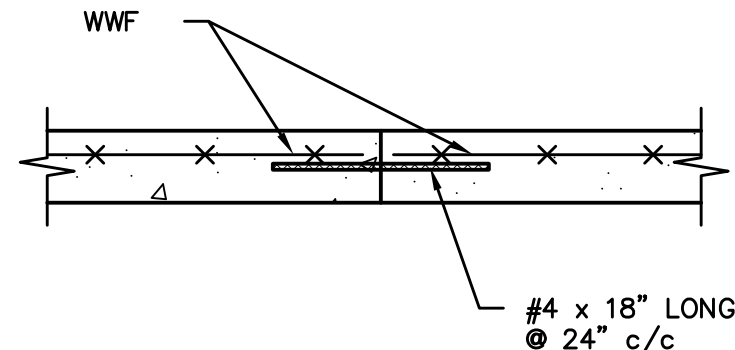
SHEET NO:

BUILDING SECTIONS

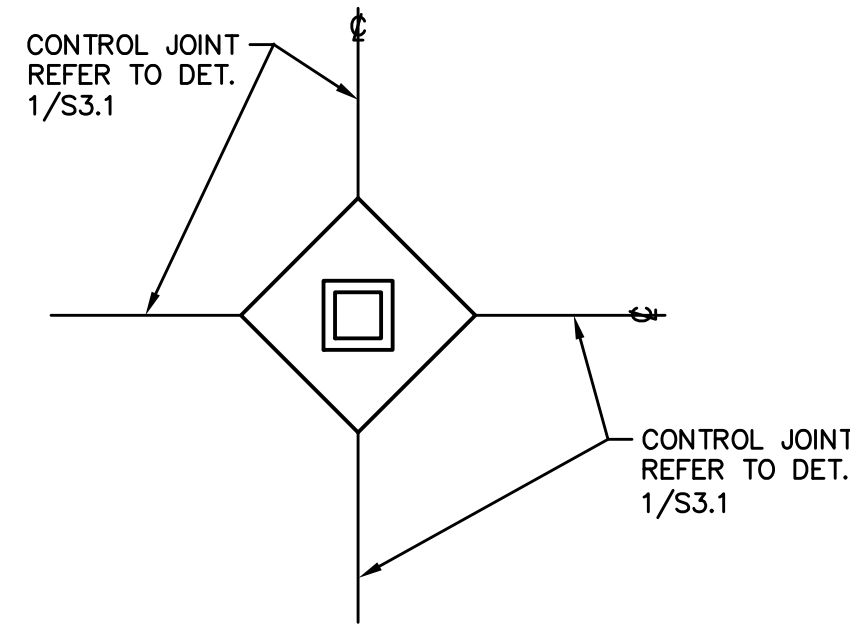
S2.1



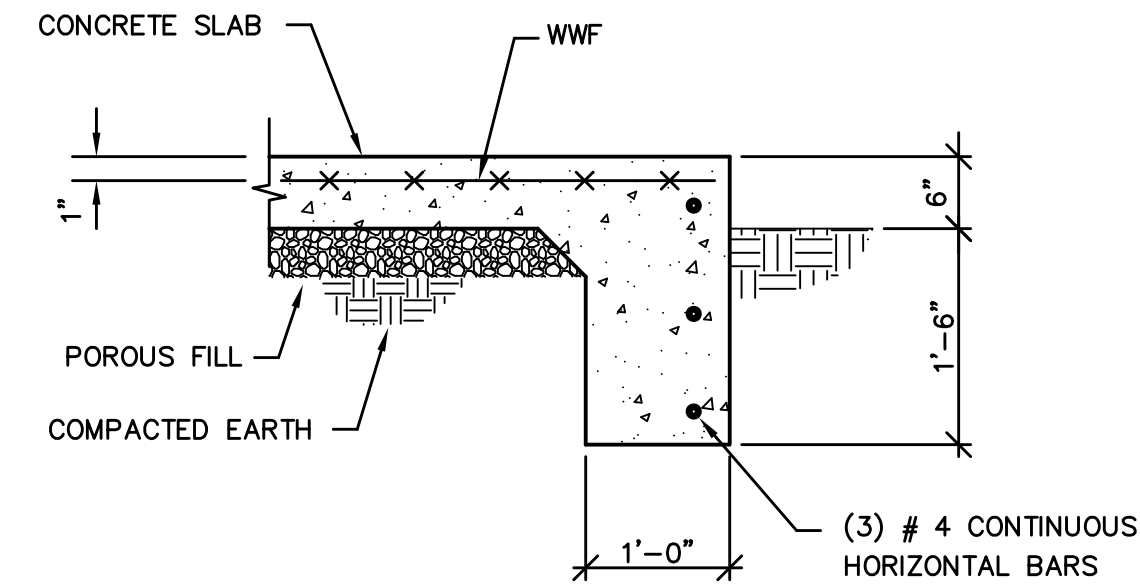
1 **DETAIL**
SCALE: NONE
FLOOR CONTROL JOINT



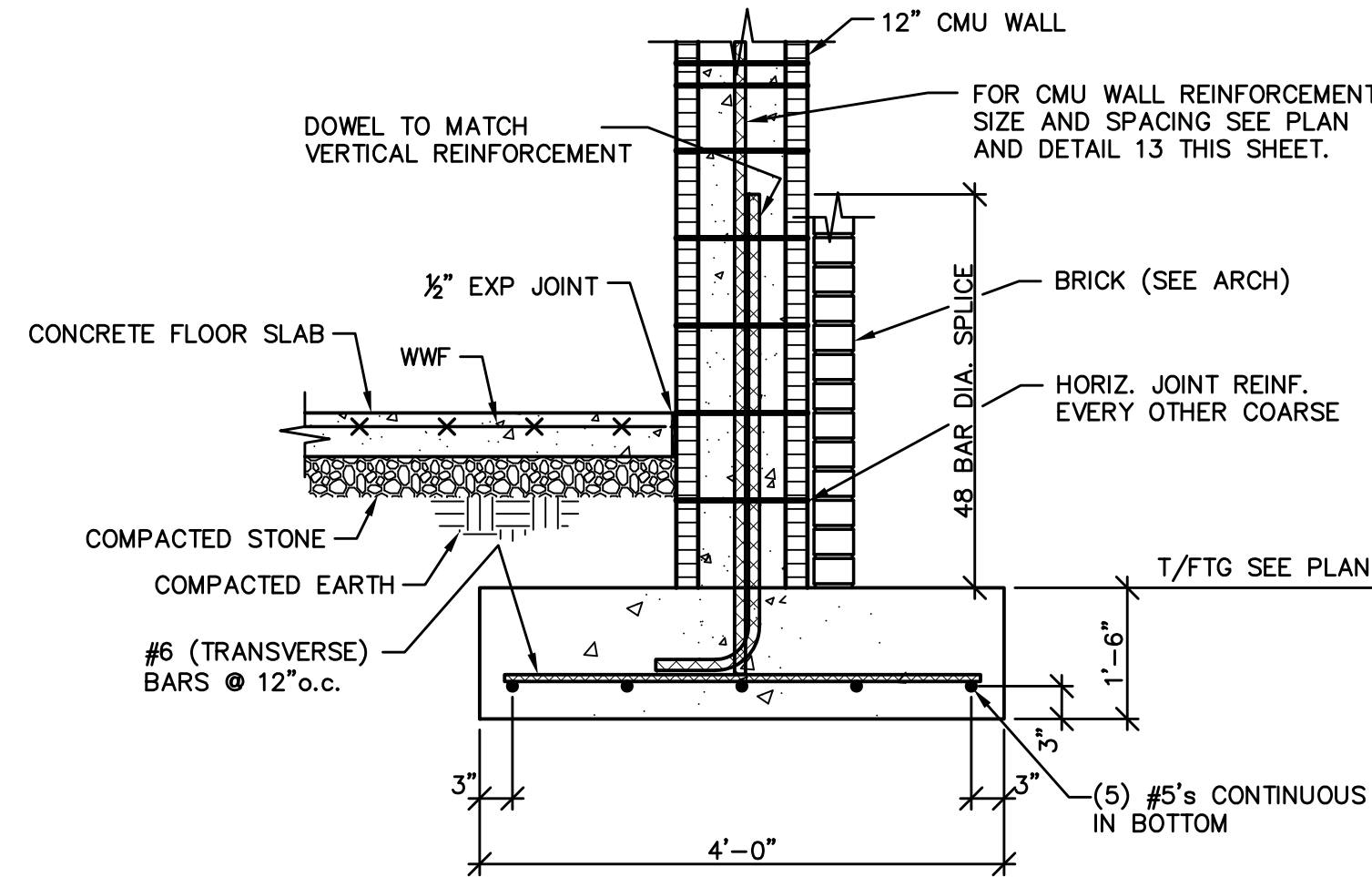
2 **DETAIL**
SCALE: NONE
FLOOR CONSTRUCTION JOINT



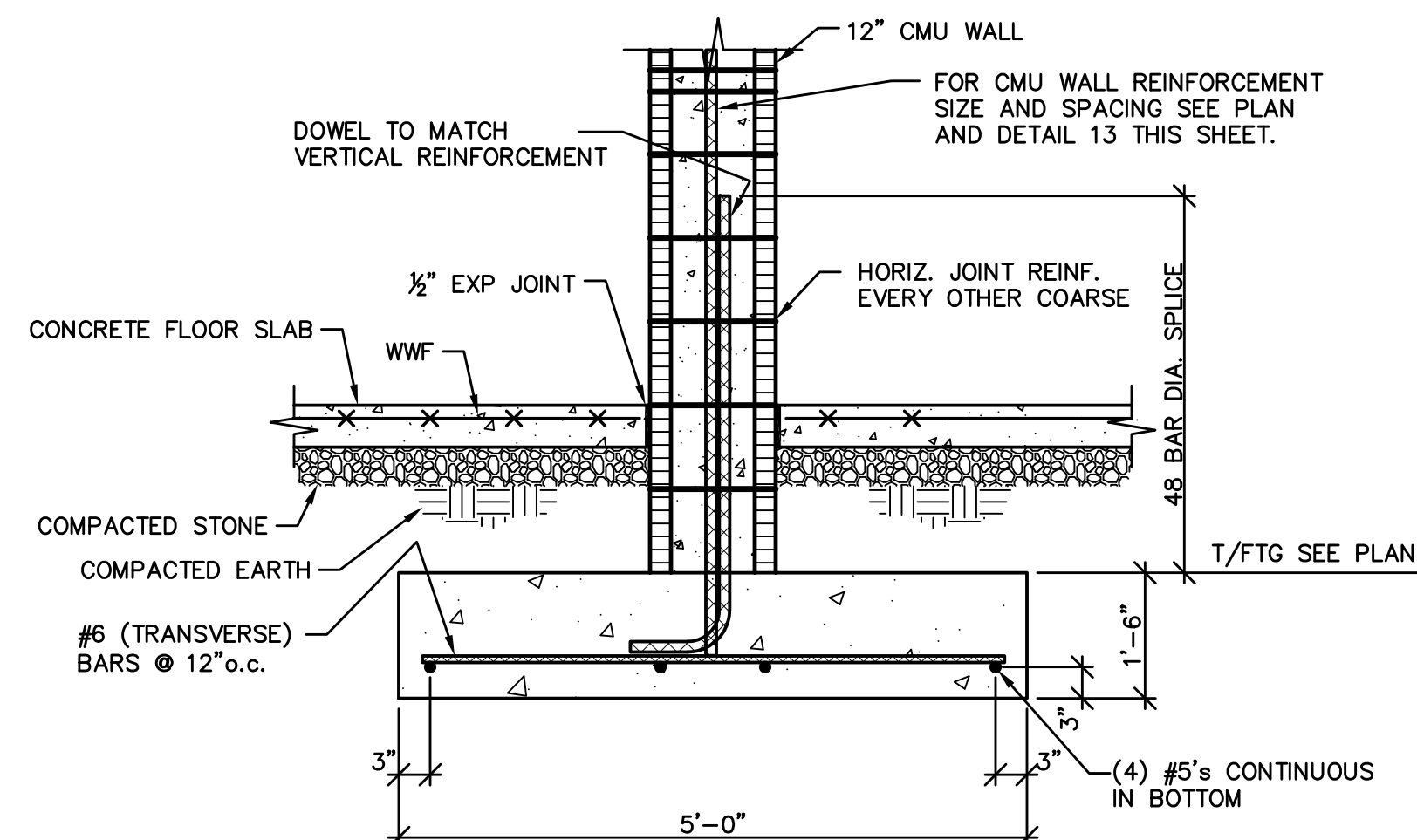
3 **DETAIL**
SCALE: NONE
CONTROL JOINT AT COLUMNS



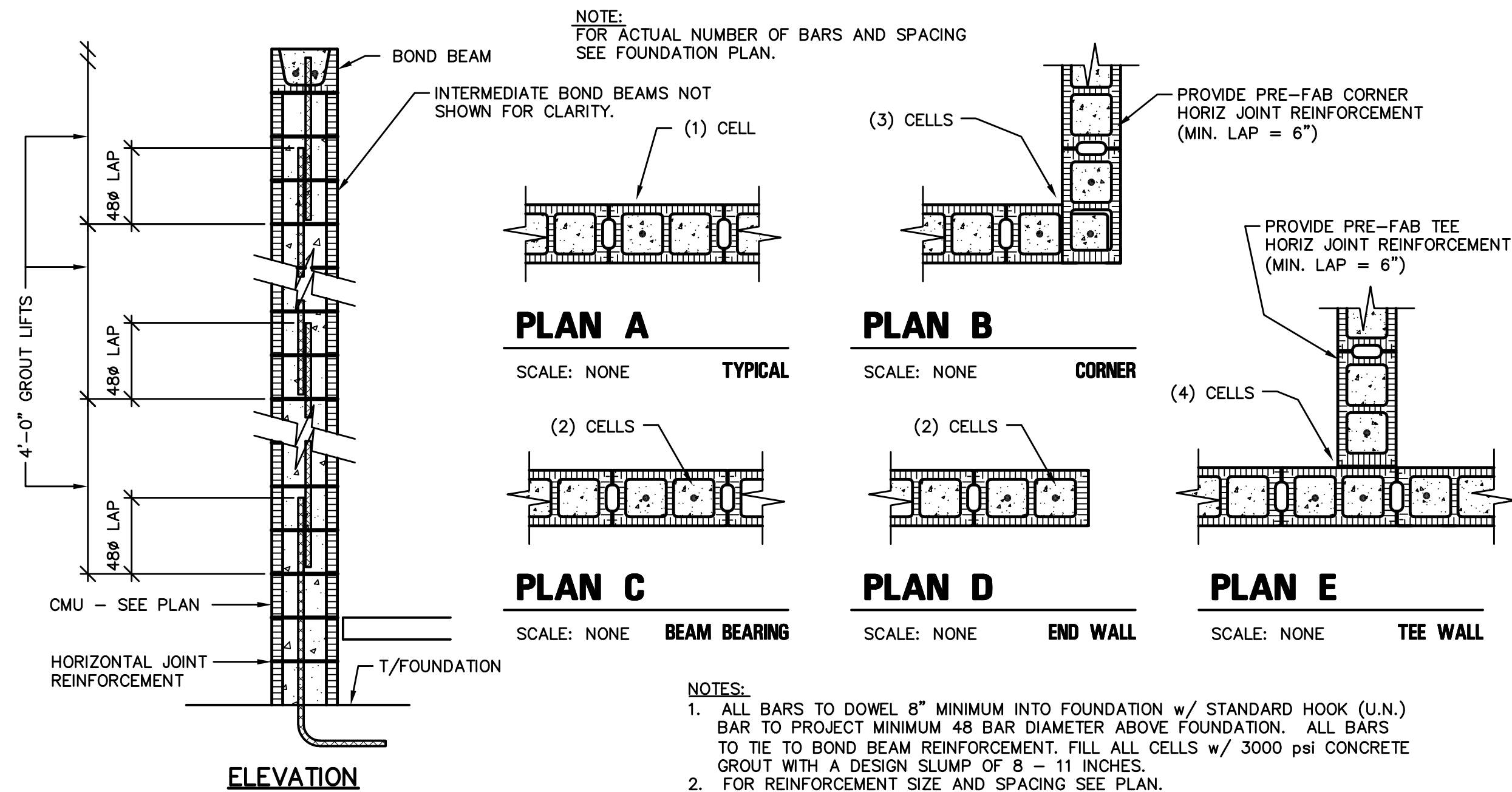
4 **DETAIL**
SCALE: NONE
TURN DOWN



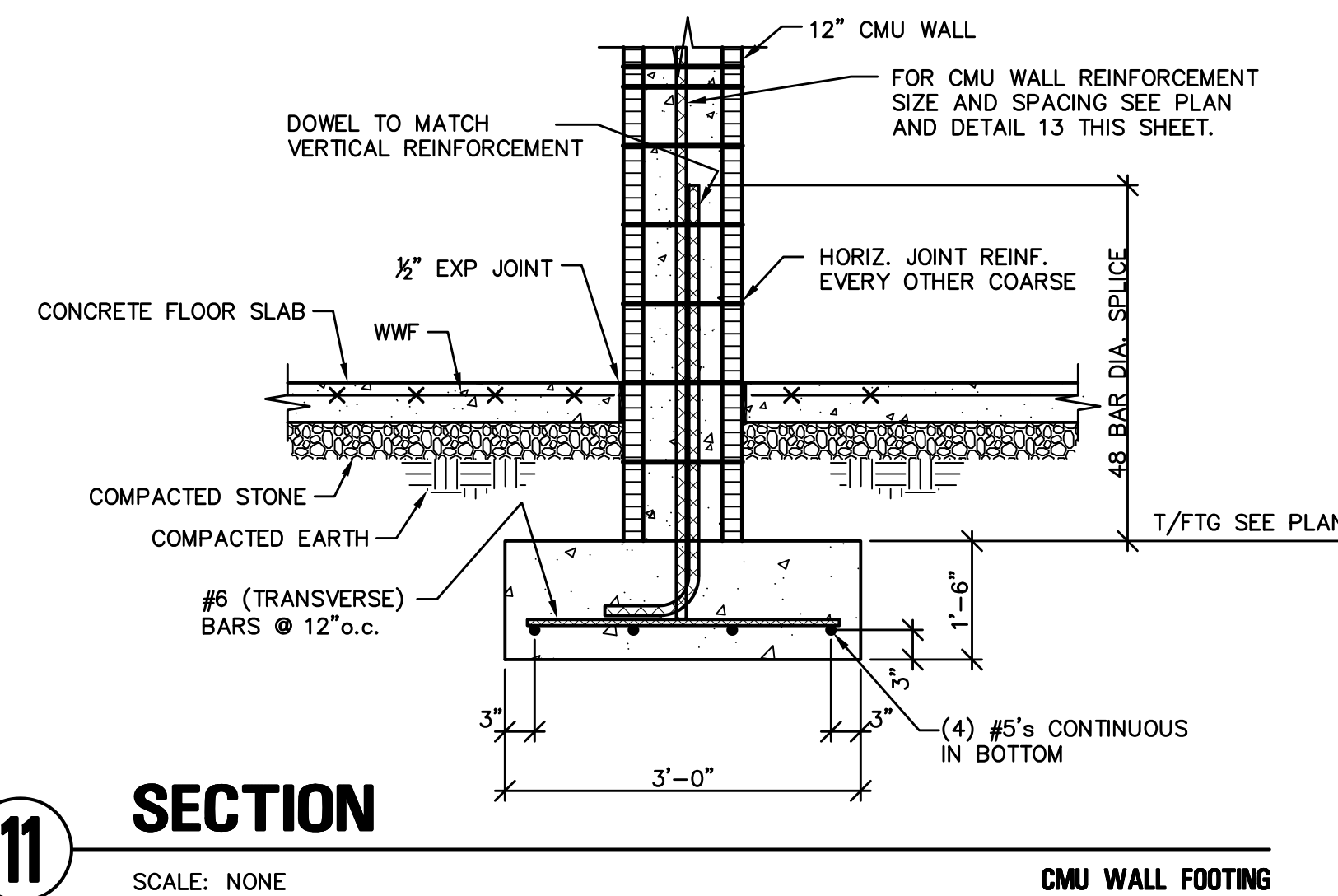
5 **SECTION**
SCALE: NONE
CMU WALL FOOTING



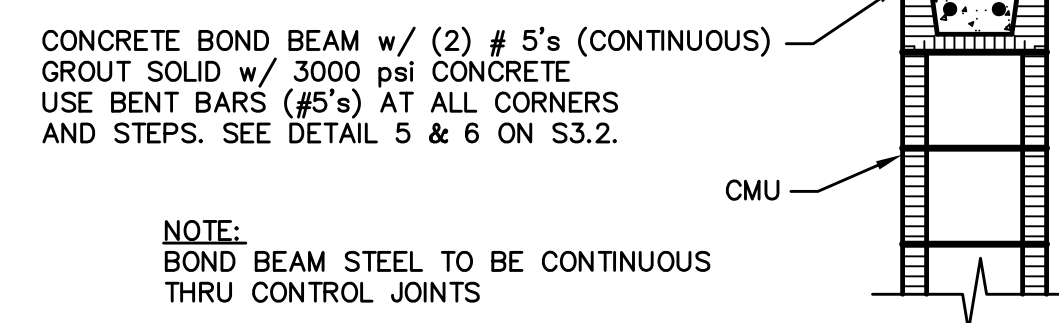
8 **SECTION**
SCALE: NONE
CMU WALL FOOTING



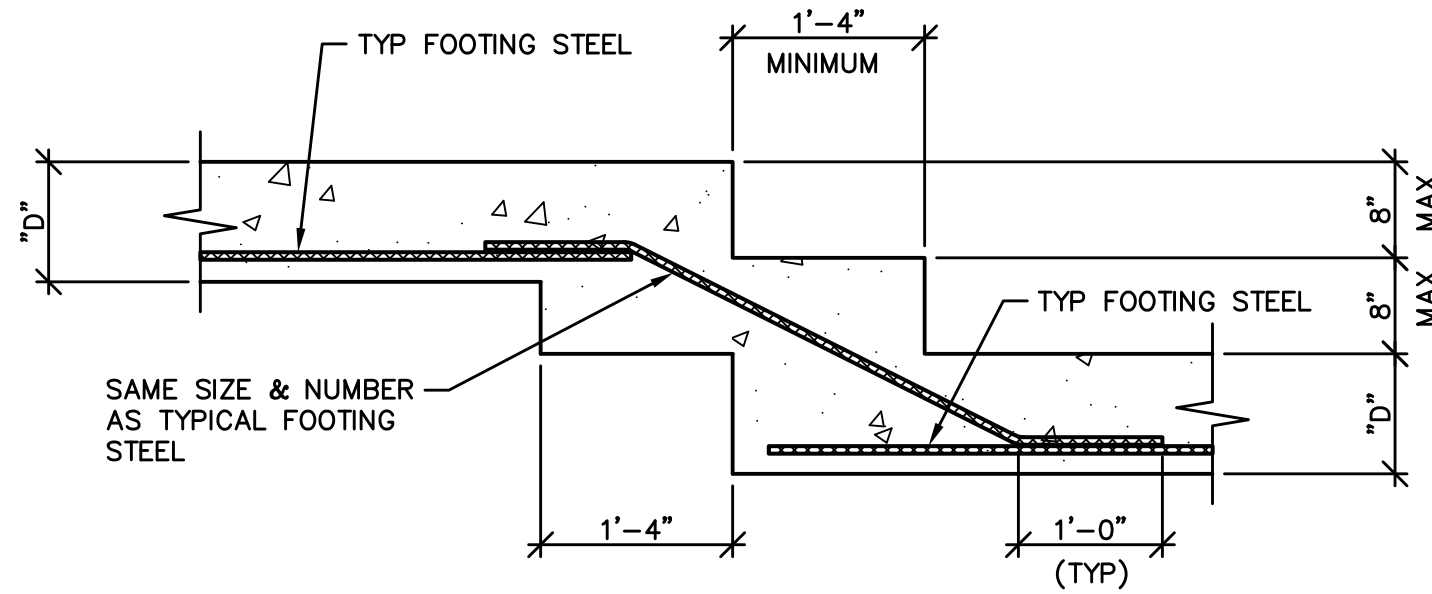
13 **DETAIL**
SCALE: NONE
CMU WALL REINFORCEMENT



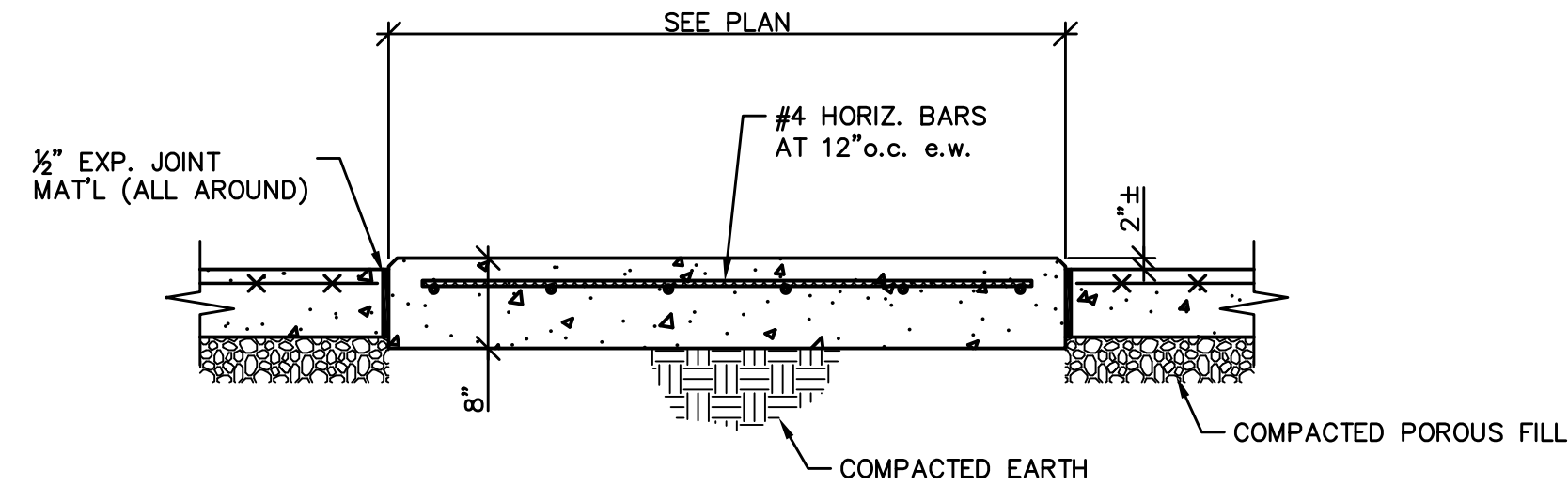
11 **SECTION**
SCALE: NONE
CMU WALL FOOTING



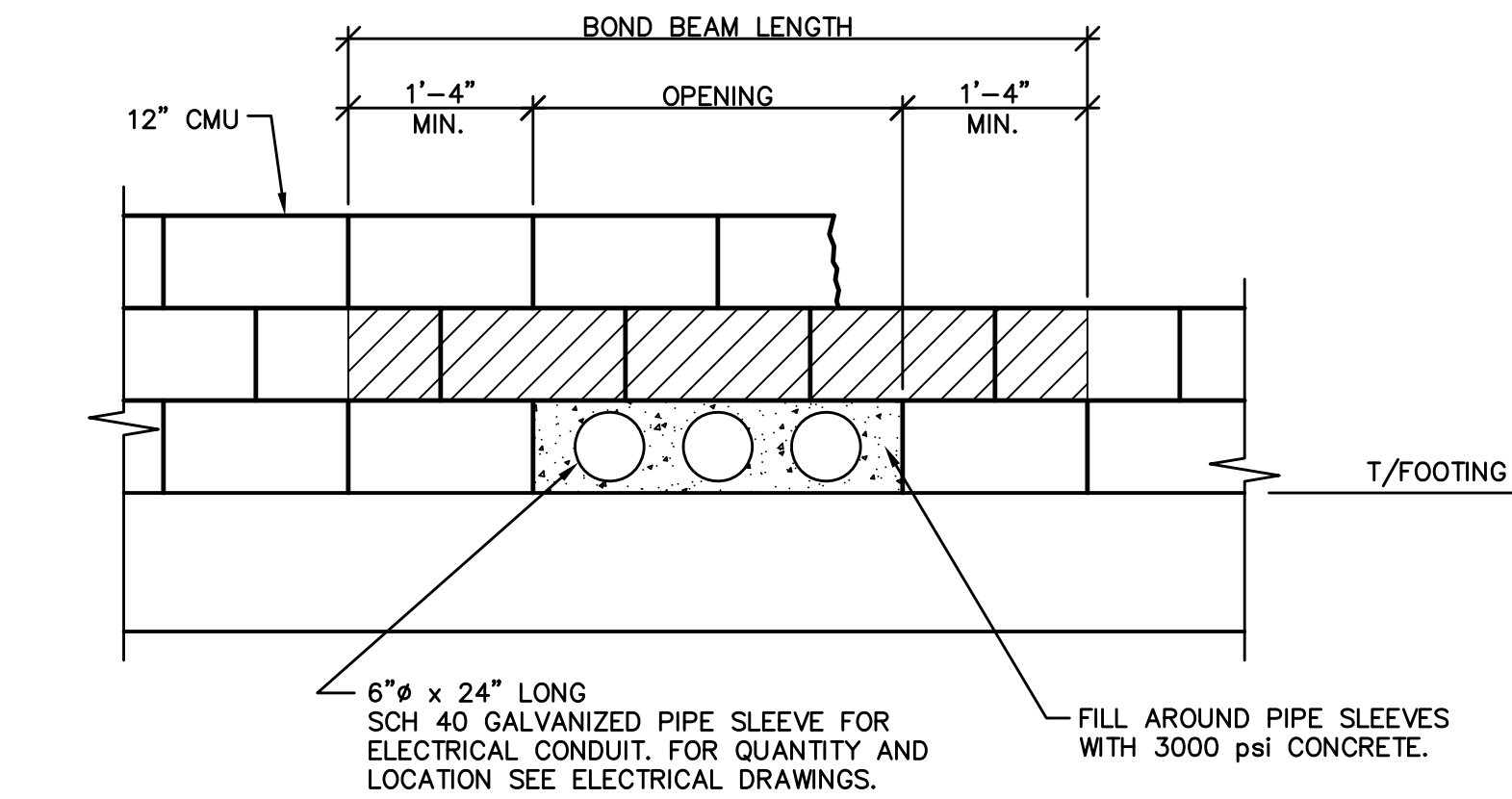
14 **DETAIL**
SCALE: NONE
CMU BOND BEAM



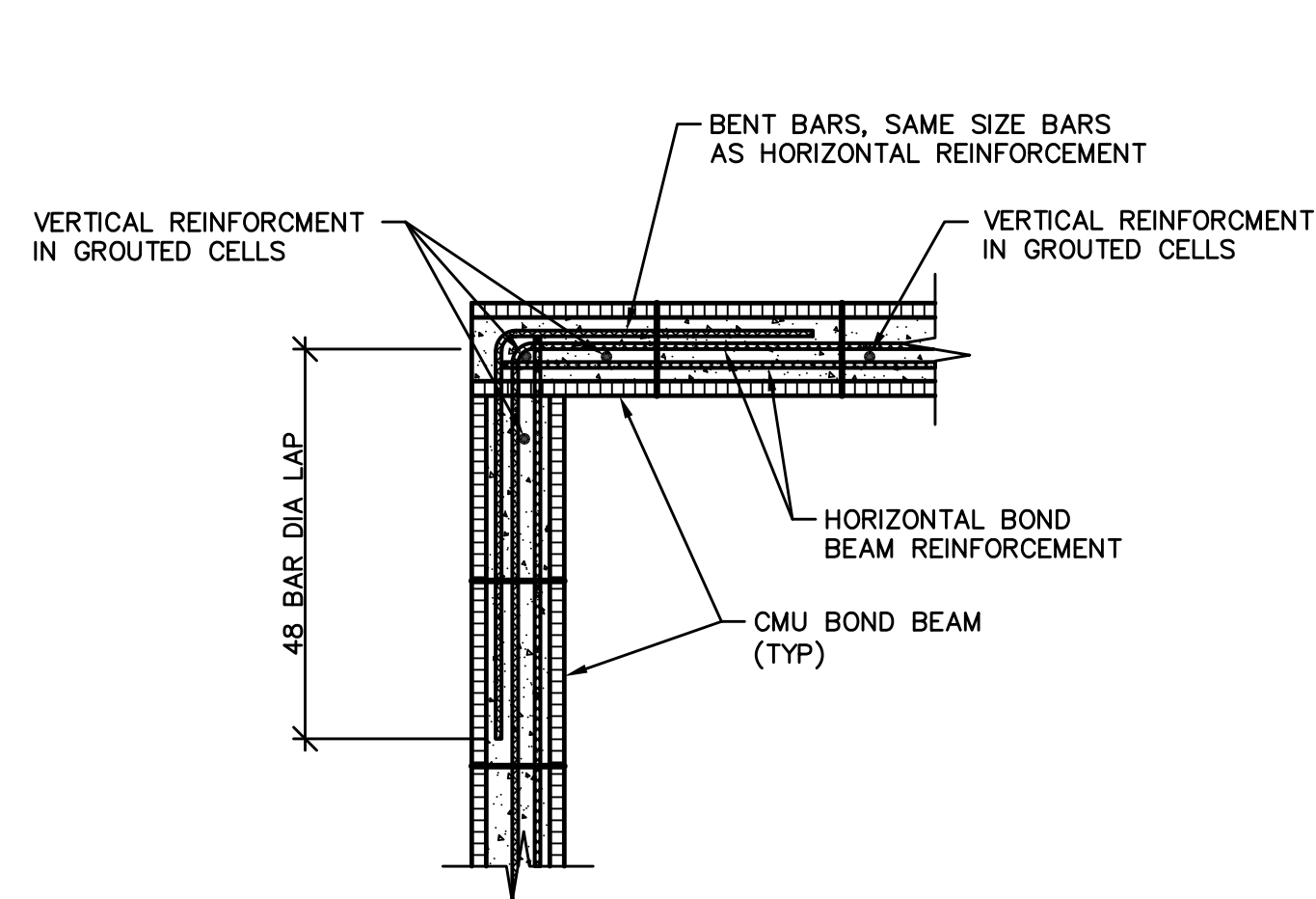
1 **DETAIL**
SCALE: NONE **FOOTING STEP**



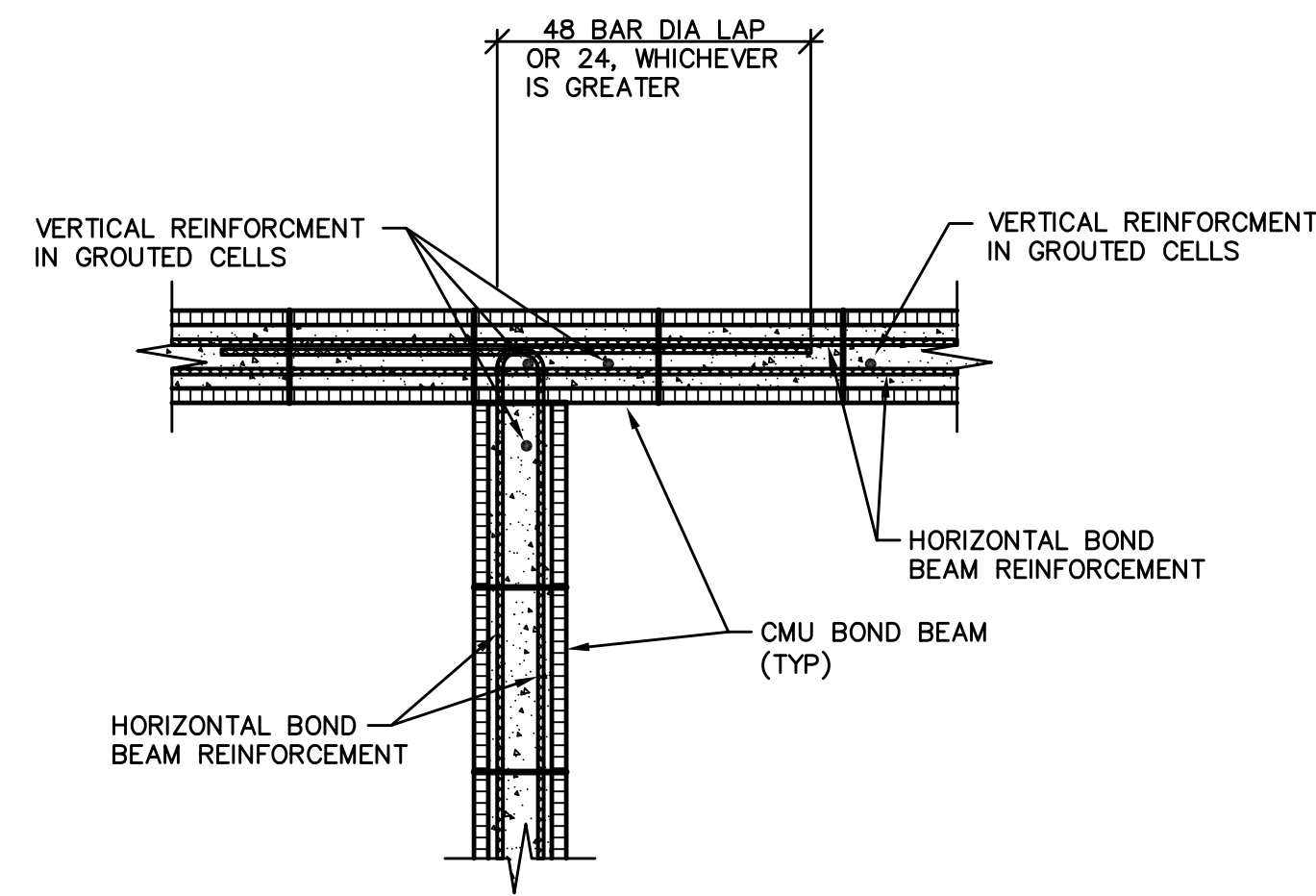
2 **DETAIL**
SCALE: NONE **EQUIPMENT PAD**



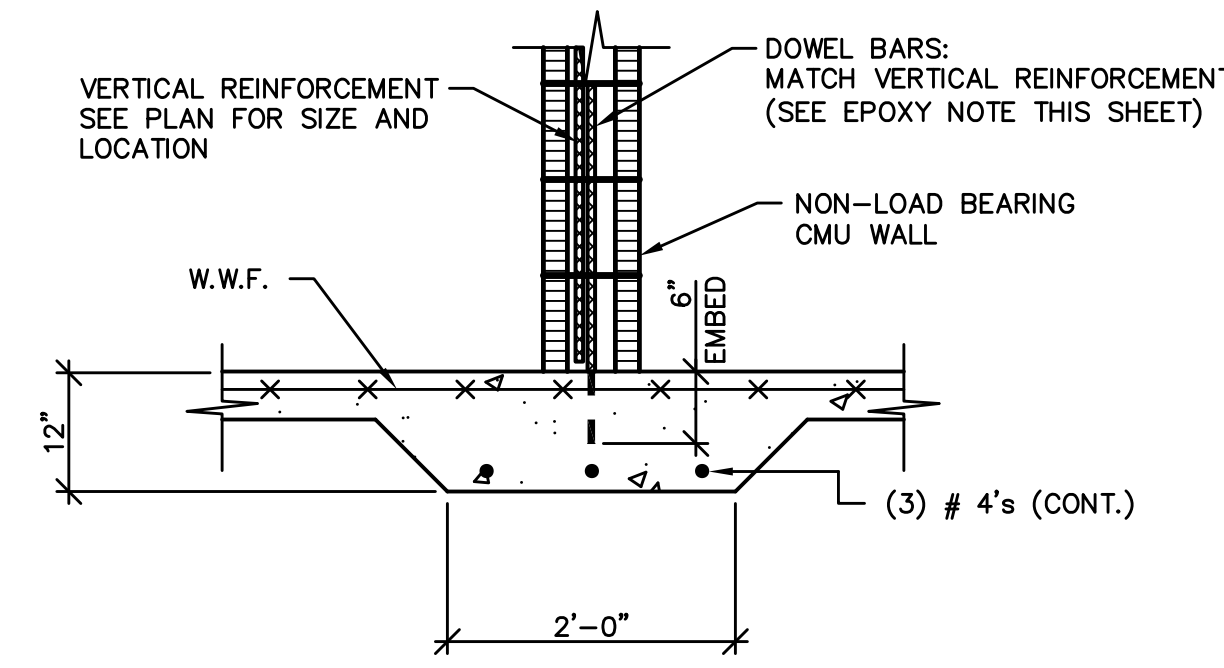
3 **SECTION**
SCALE: 3/4" = 1'-0" **TYPICAL UTILITY PIPE SLEEVE BELOW GRADE**



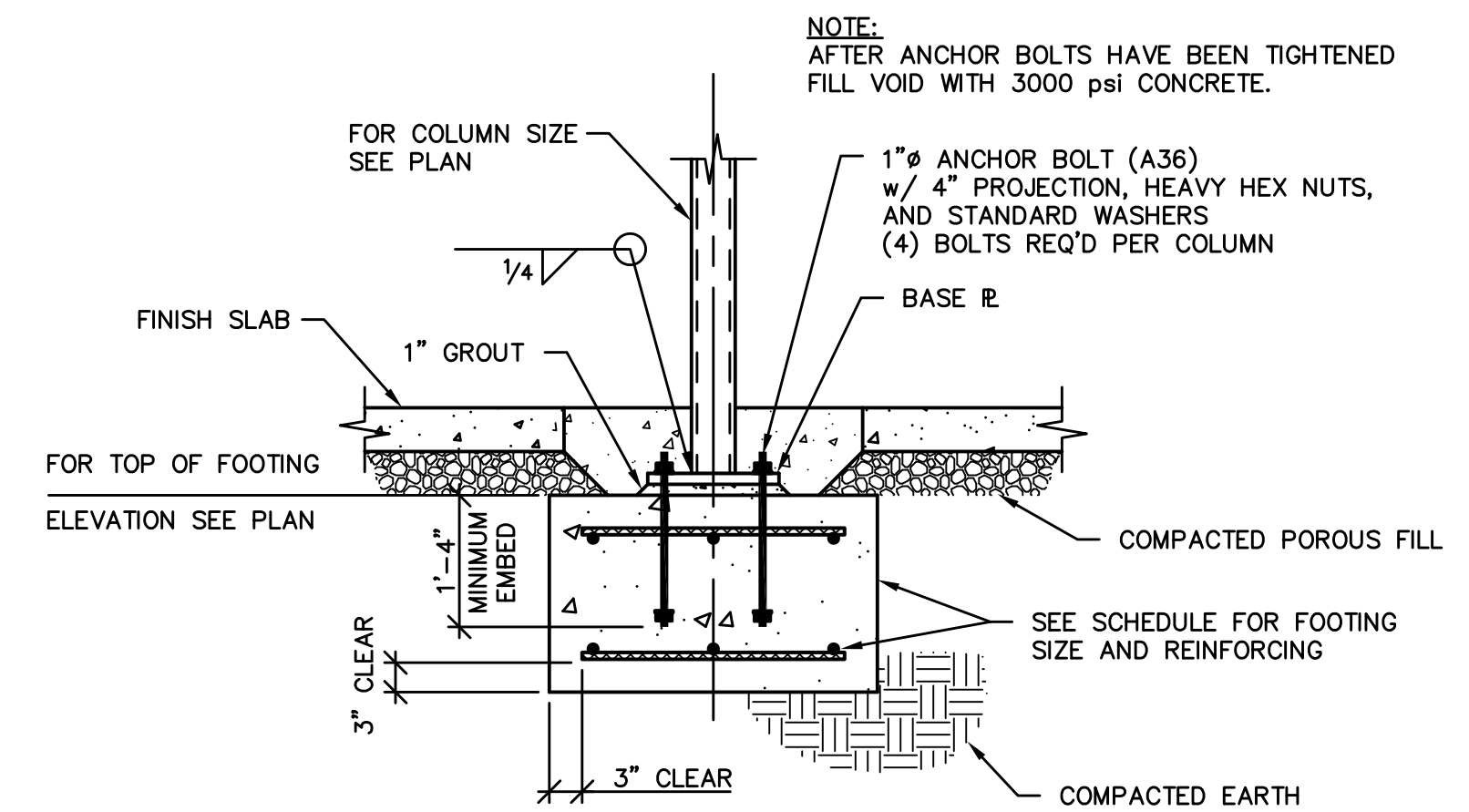
5 **DETAIL**
SCALE: NONE **BOND BEAM @ CORNER**



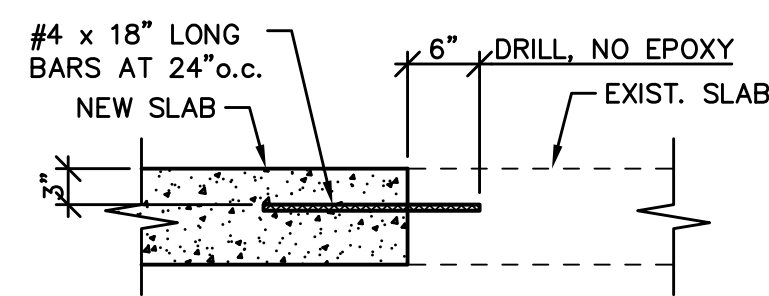
6 **DETAIL**
SCALE: NONE **BOND BEAM @ INTERSECTION**



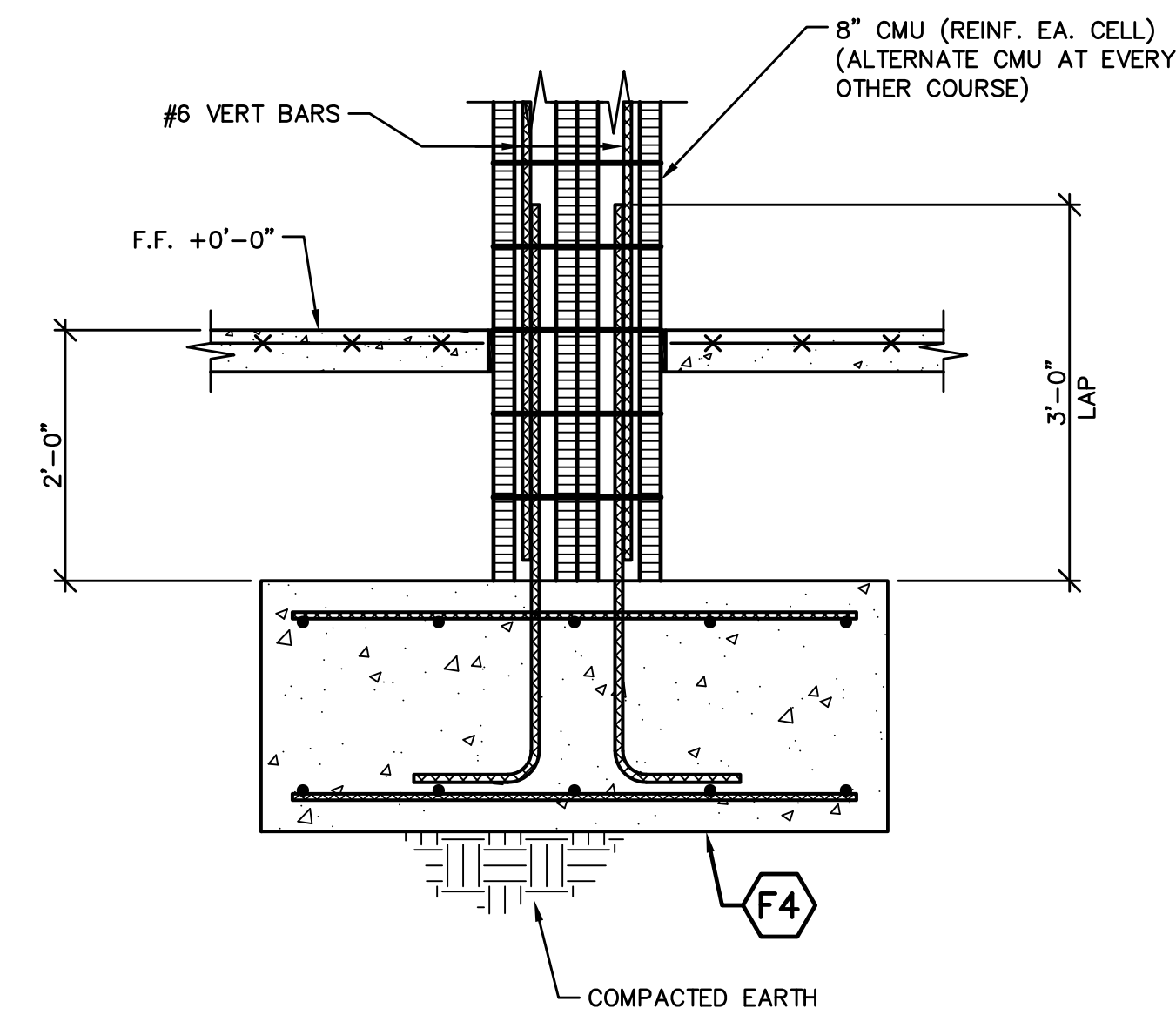
7 **SECTION**
SCALE: NONE **THICKENED SLAB**



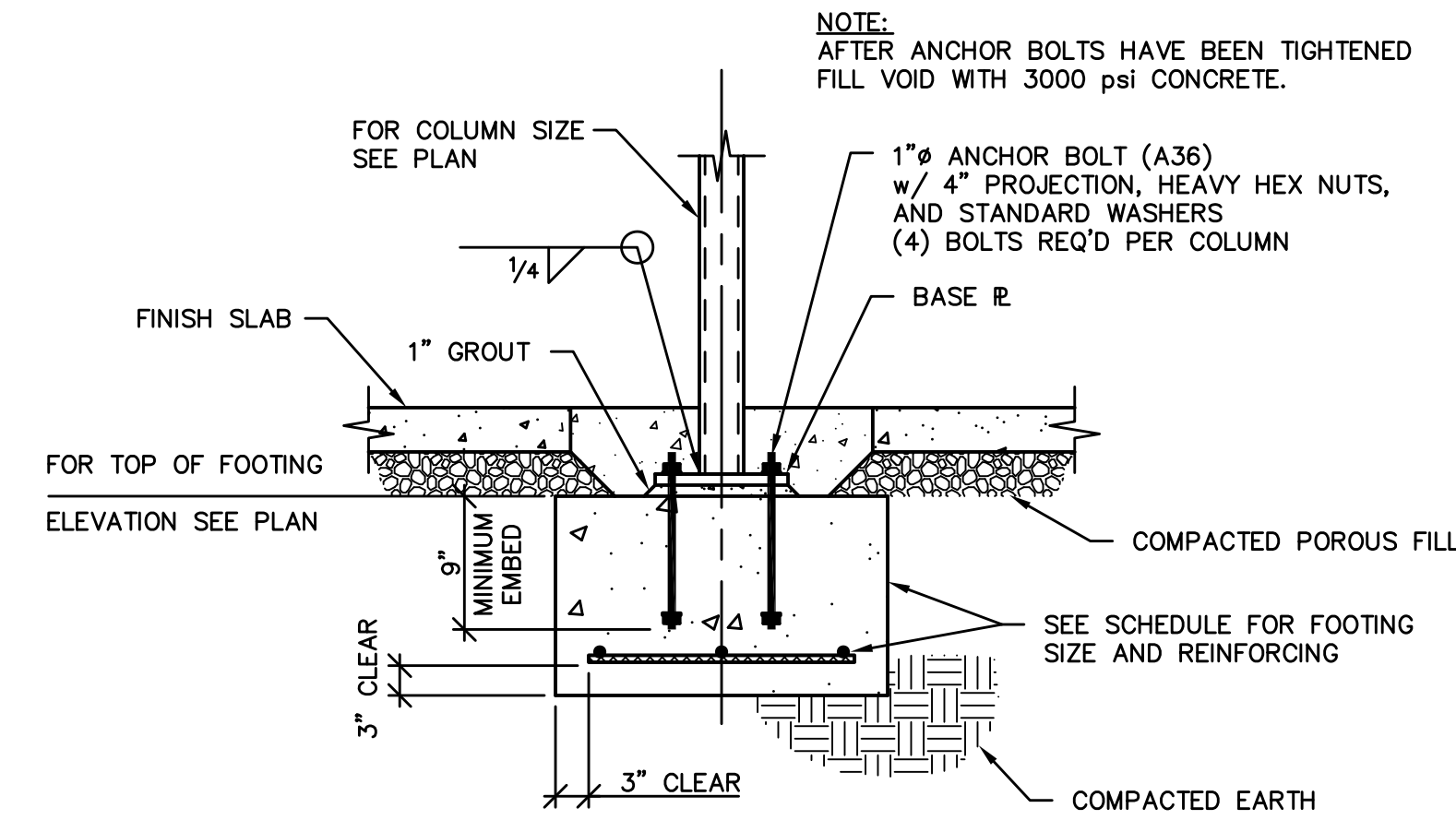
8 **DETAIL**
SCALE: NONE **COLUMN FOOTING**



9 **DETAIL**
SCALE: NONE **DOWEL BAR**



10 **SECTION**
SCALE: NONE

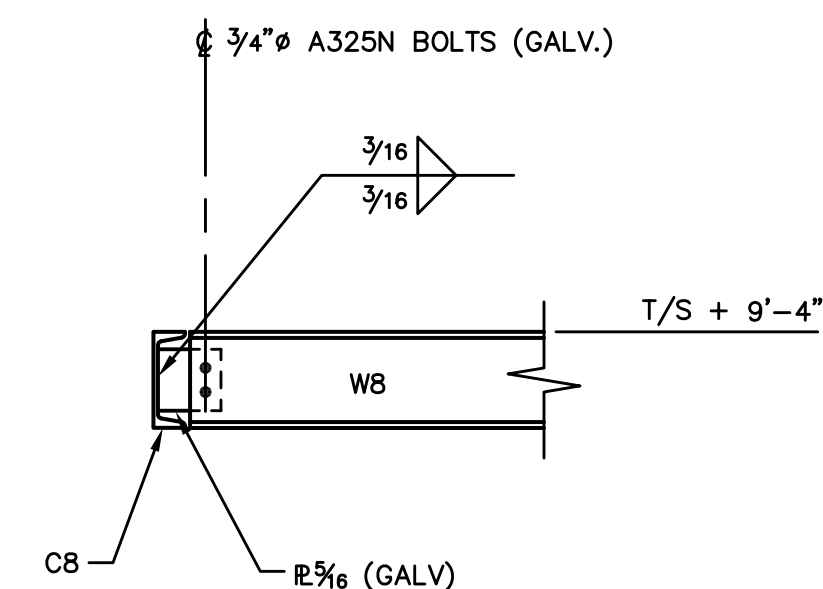
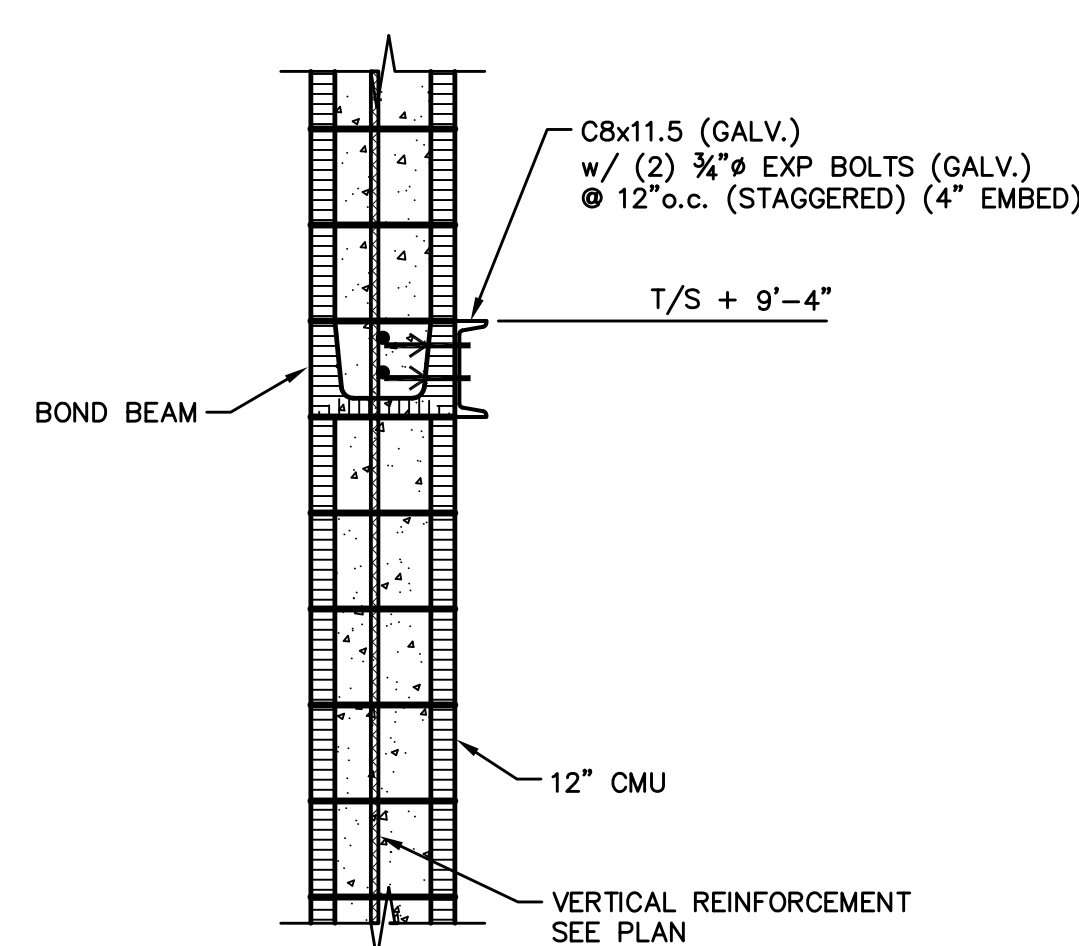
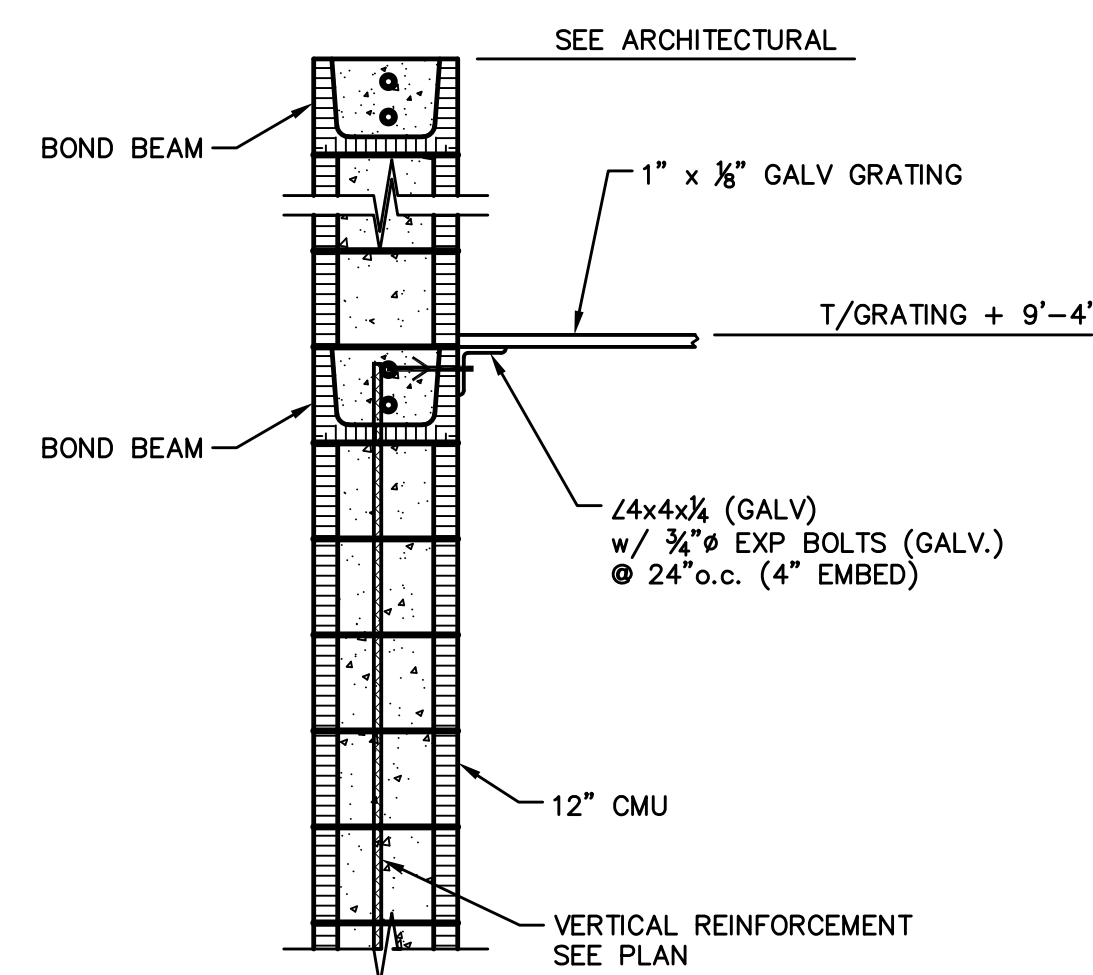
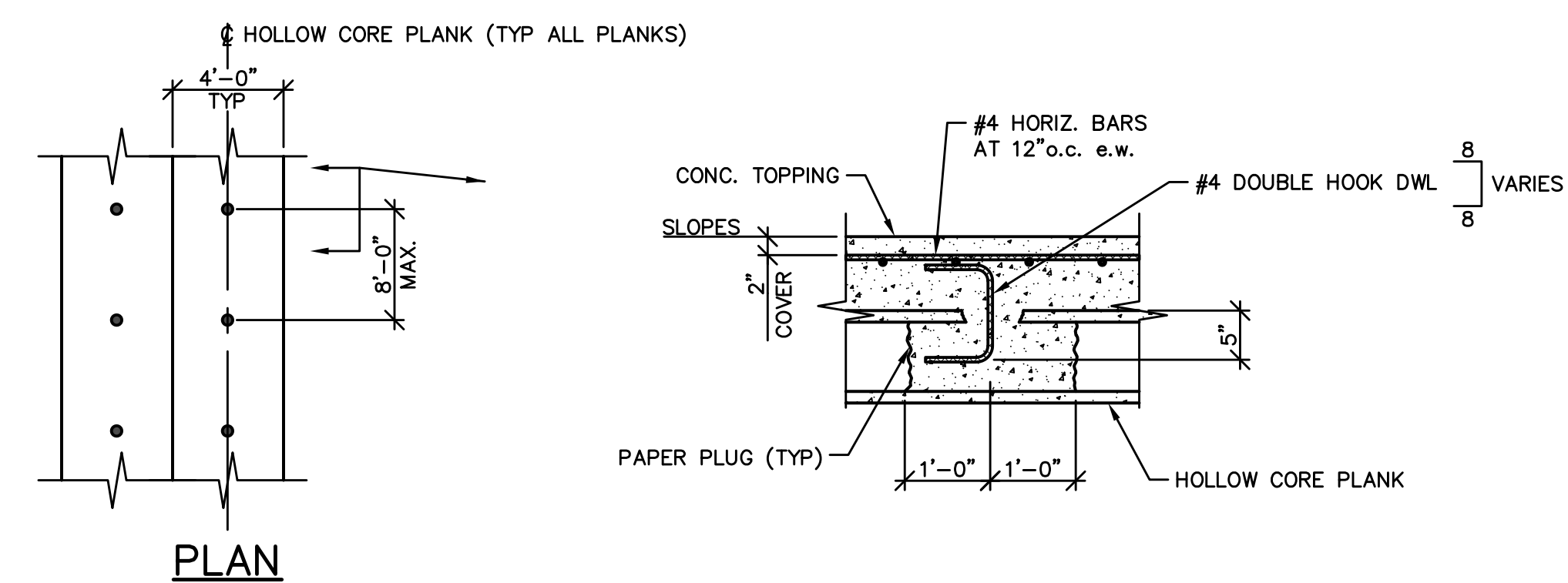
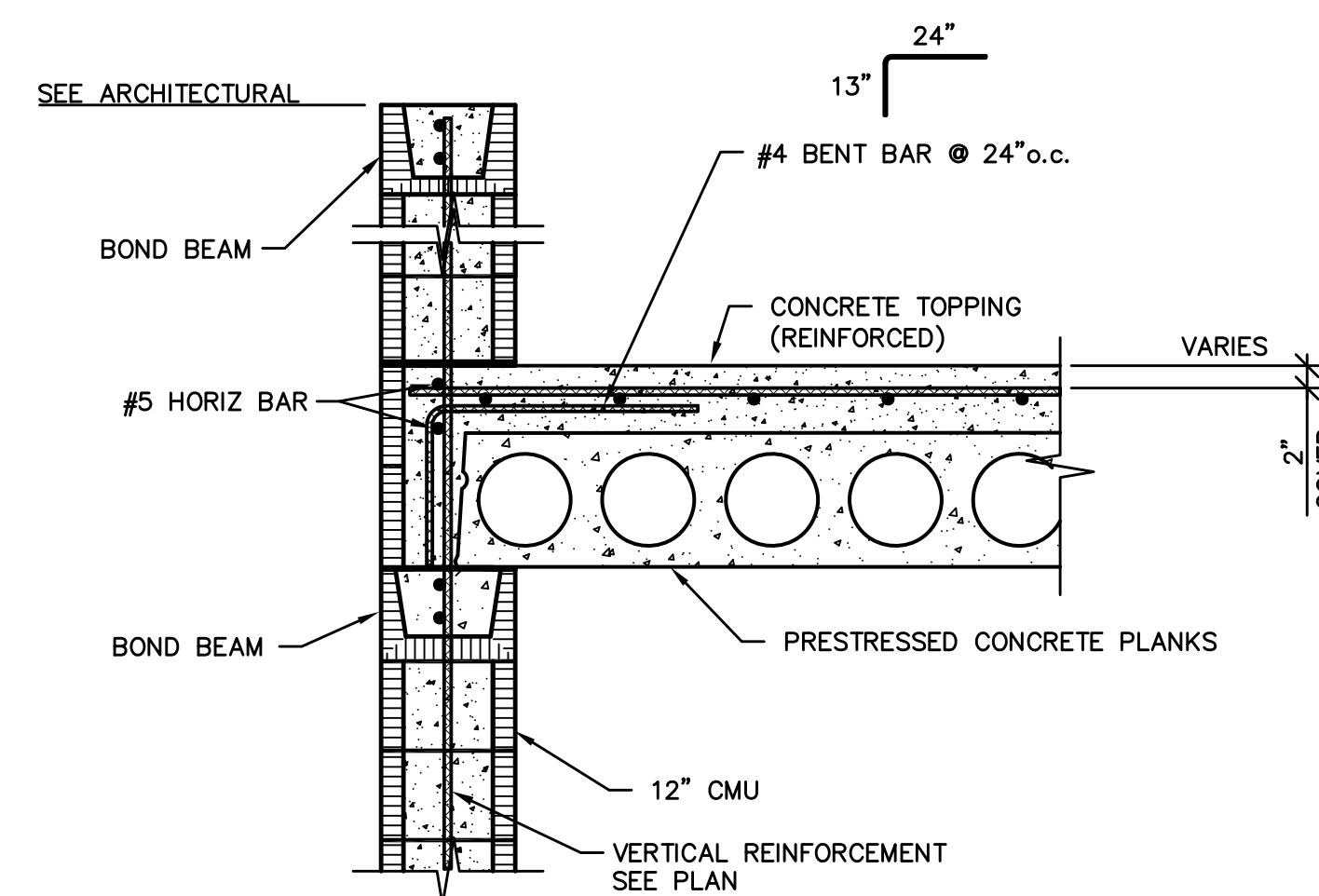
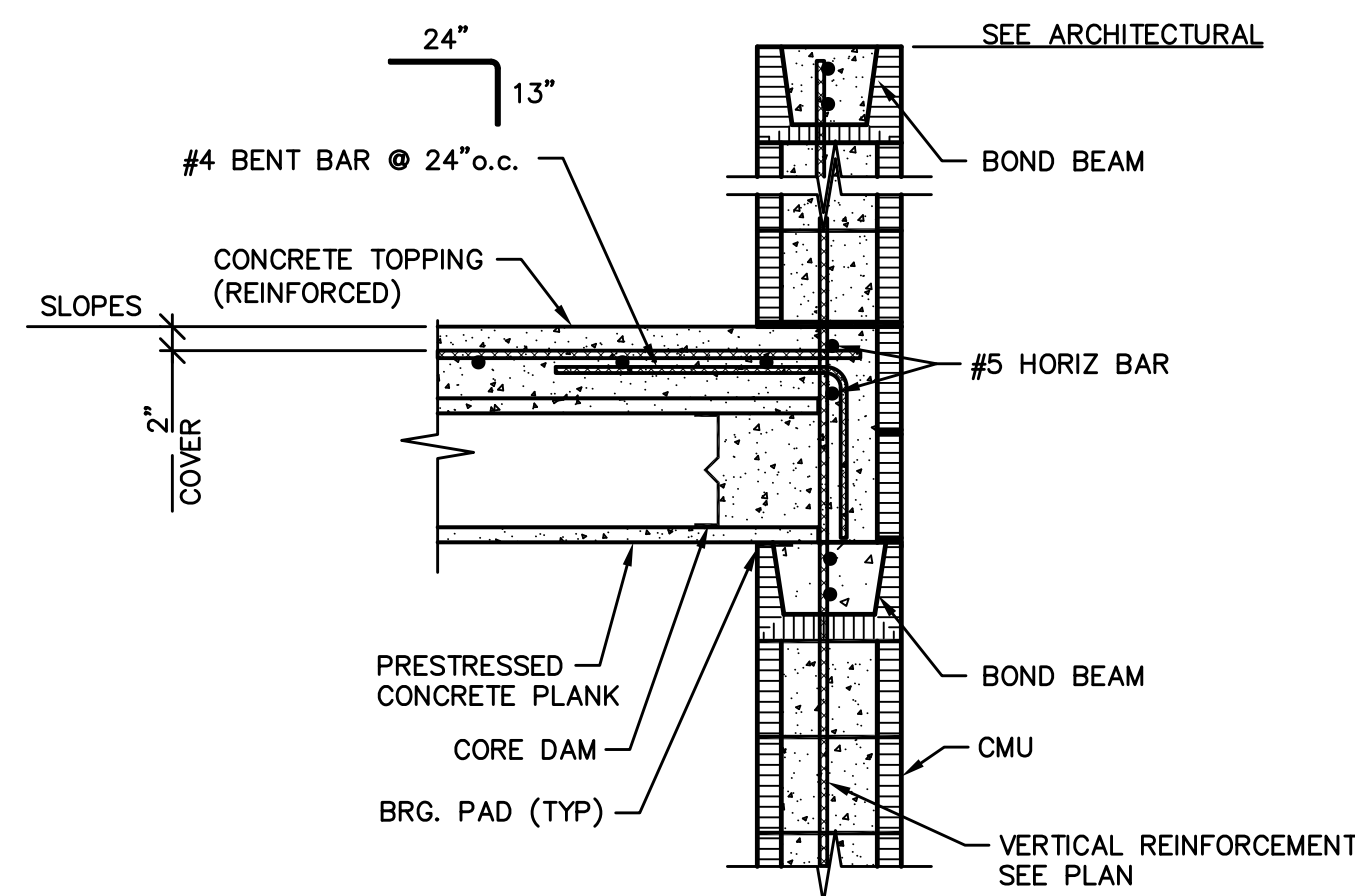
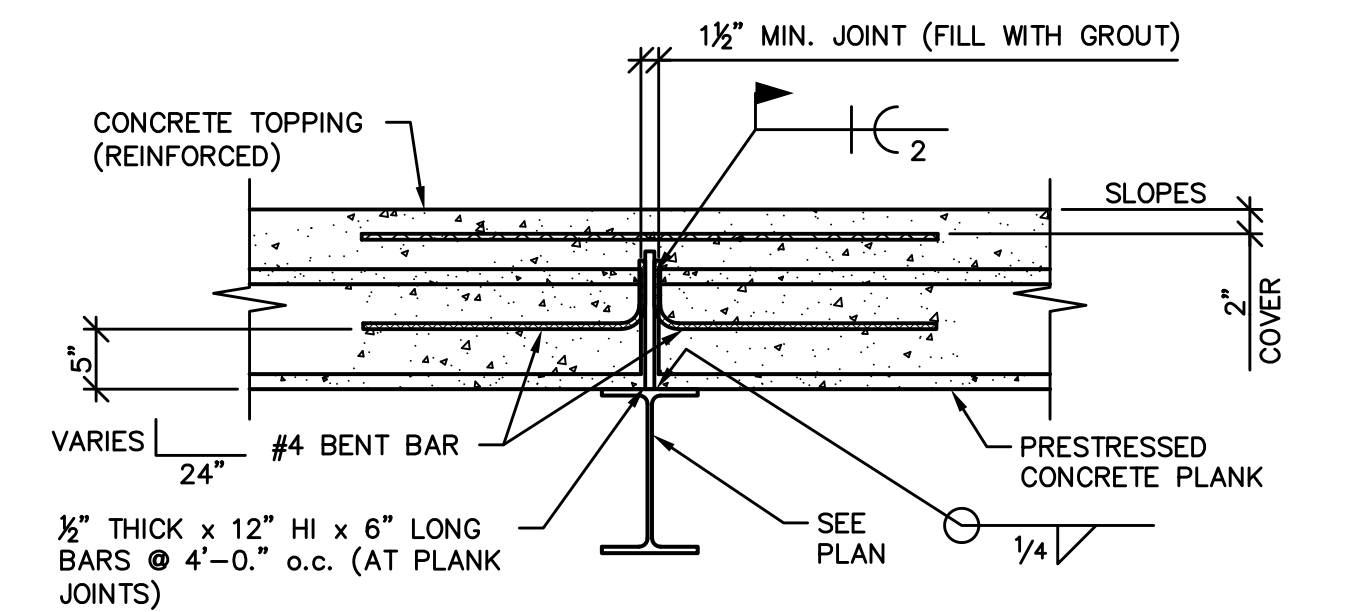
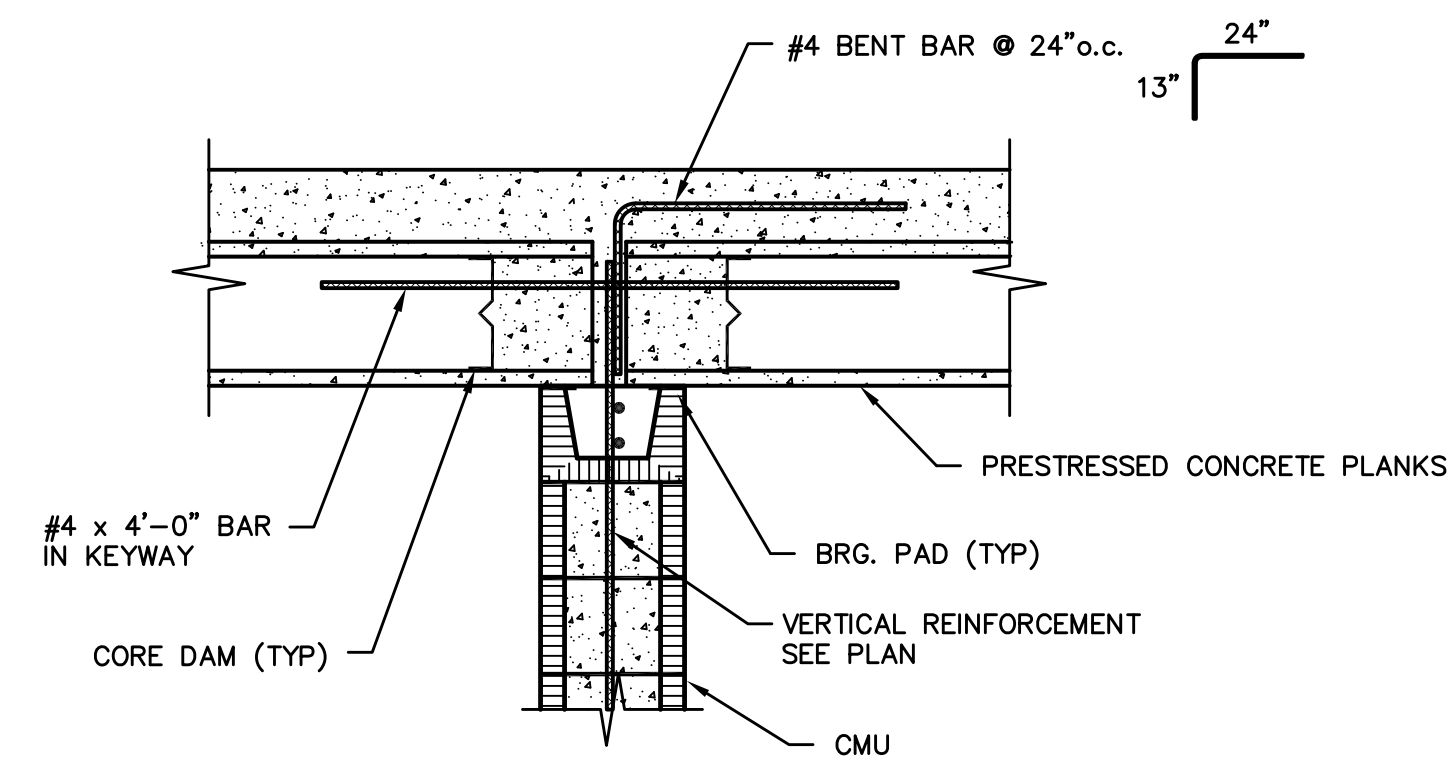
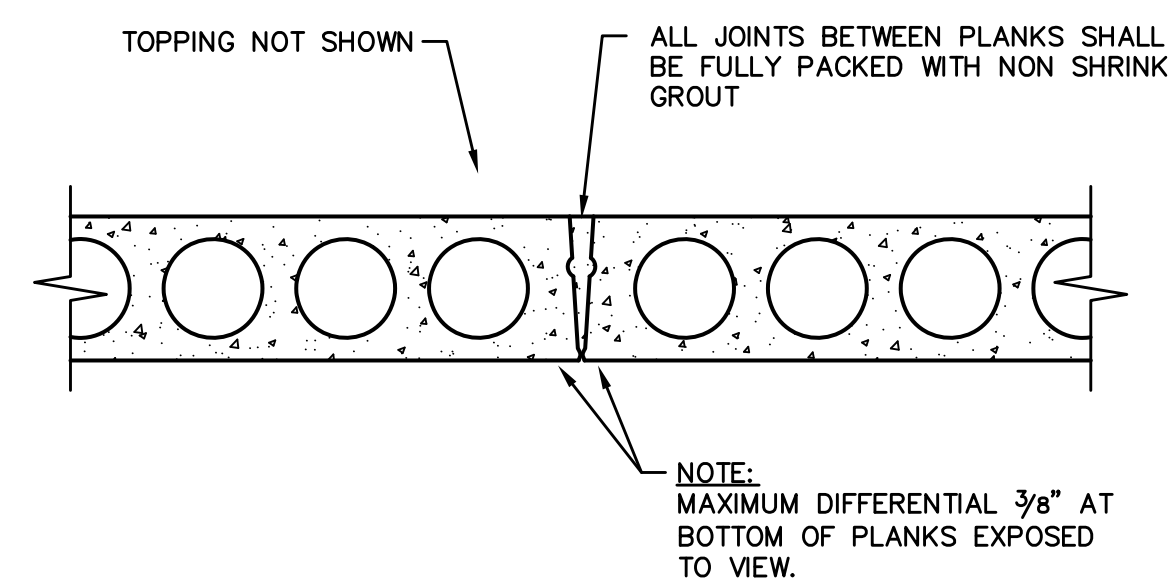


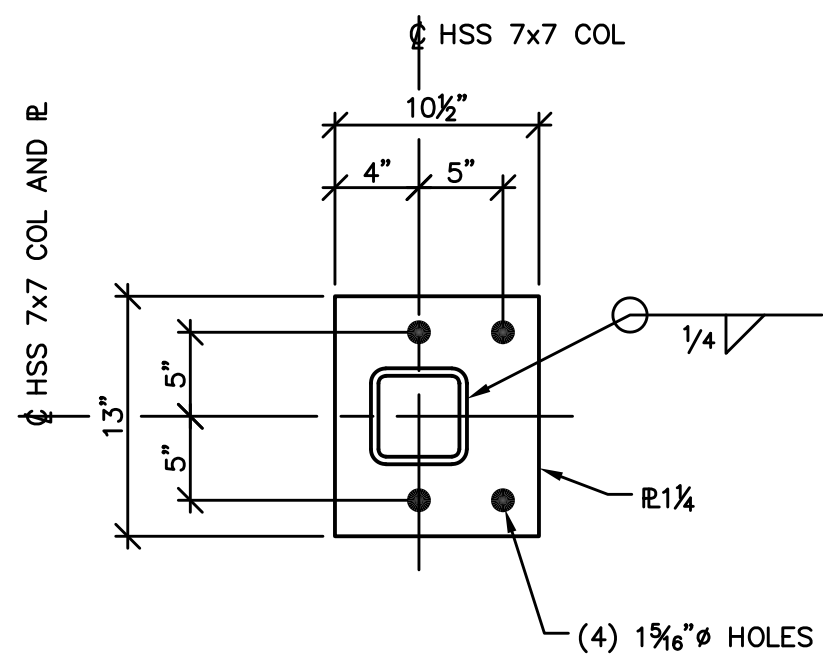
11 **DETAIL**
SCALE: NONE **COLUMN FOOTING**

EPOXY NOTES:

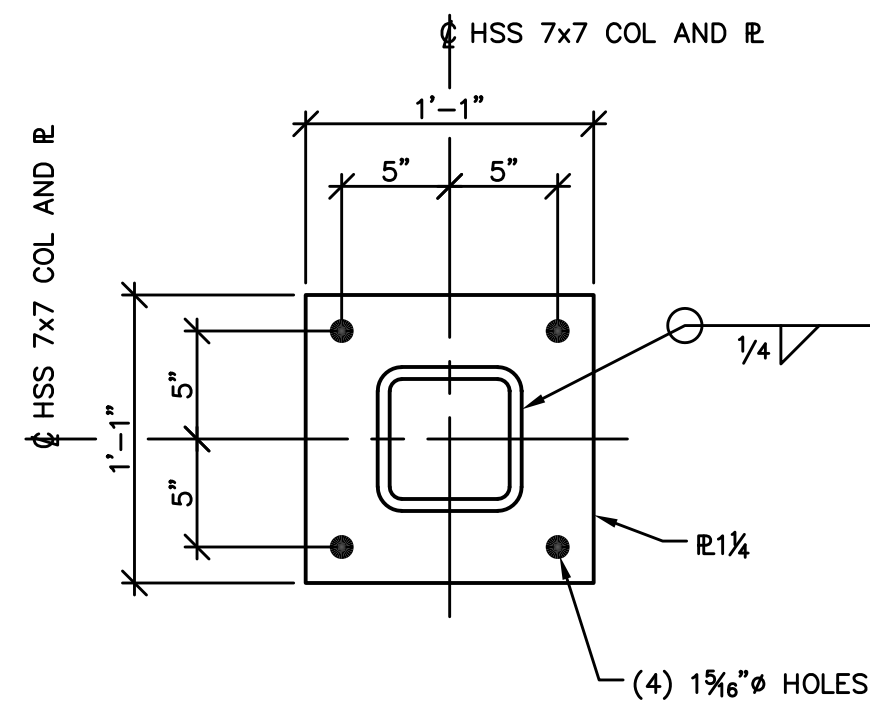
1. FOR MASONRY USE: "RAMSET/RED HEAD EPCON CERAMIC 6" INSTALL PER MANUFACTURER'S REQUIREMENTS.
2. FOR CONCRETE USE: "HILTI HY200 MAX" SYSTEM. INSTALL PER MANUFACTURER'S REQUIREMENTS.

ISSUE	DATE	DESCRIPTION
1.	10.10.25	BID DOCUMENTS

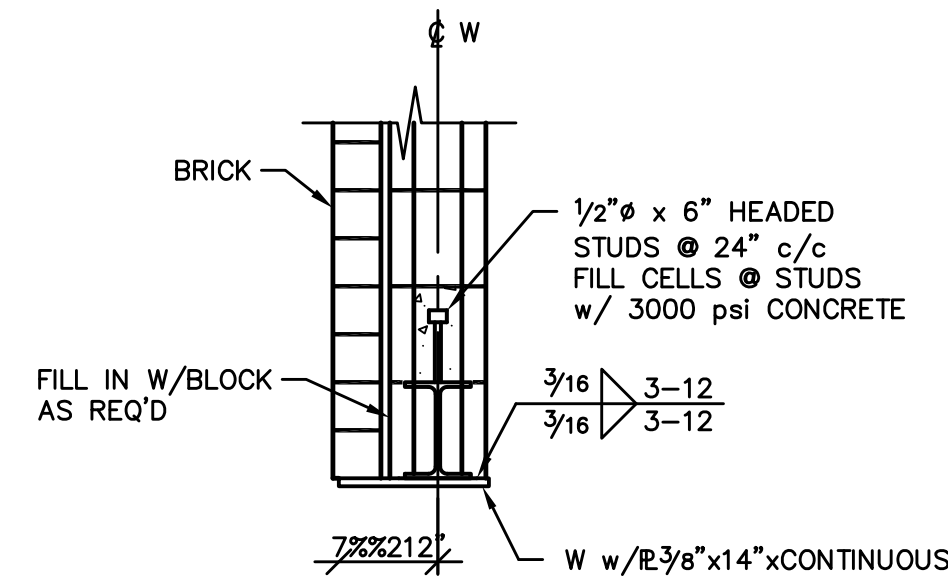
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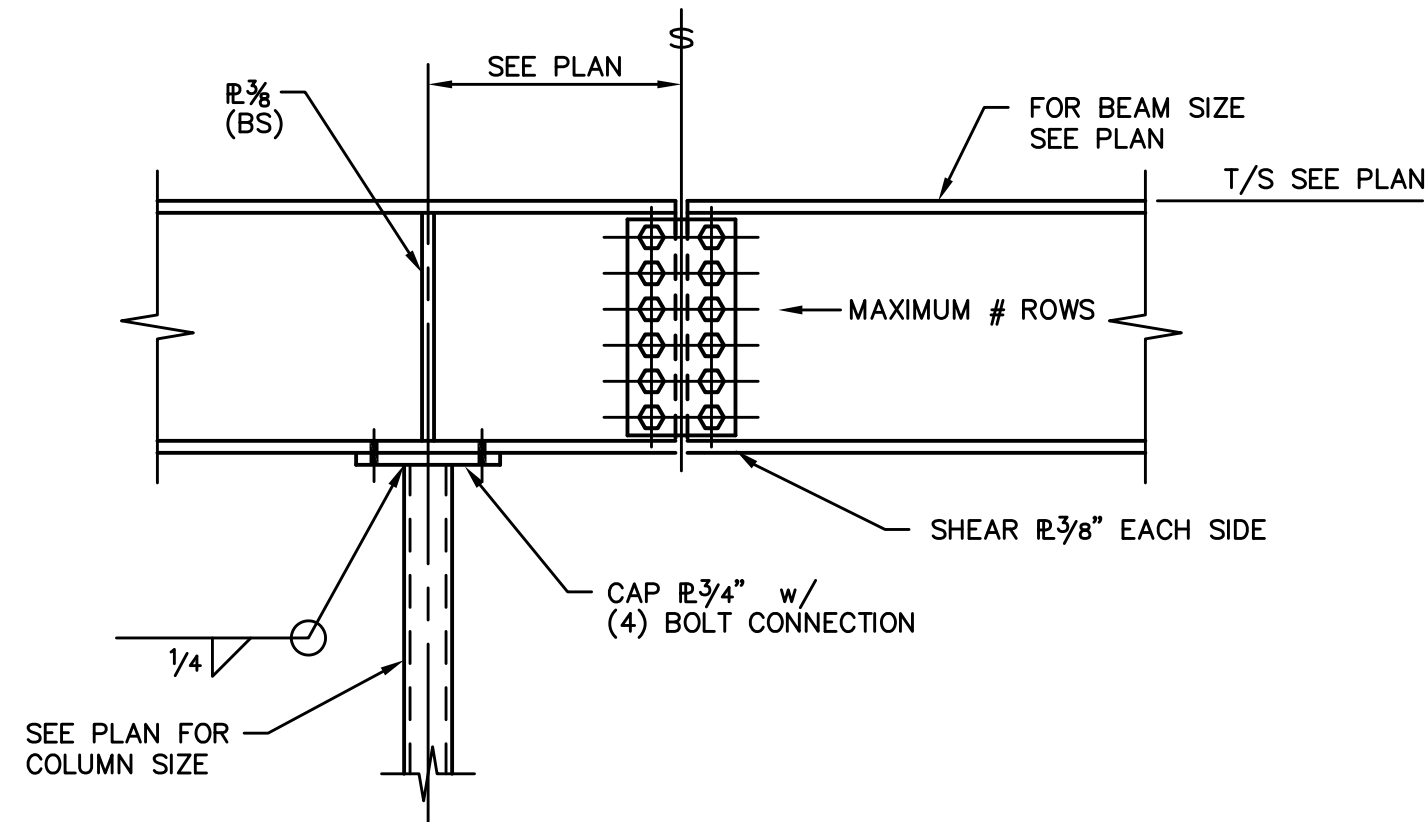
1 DETAIL
SCALE: NONE
BP1



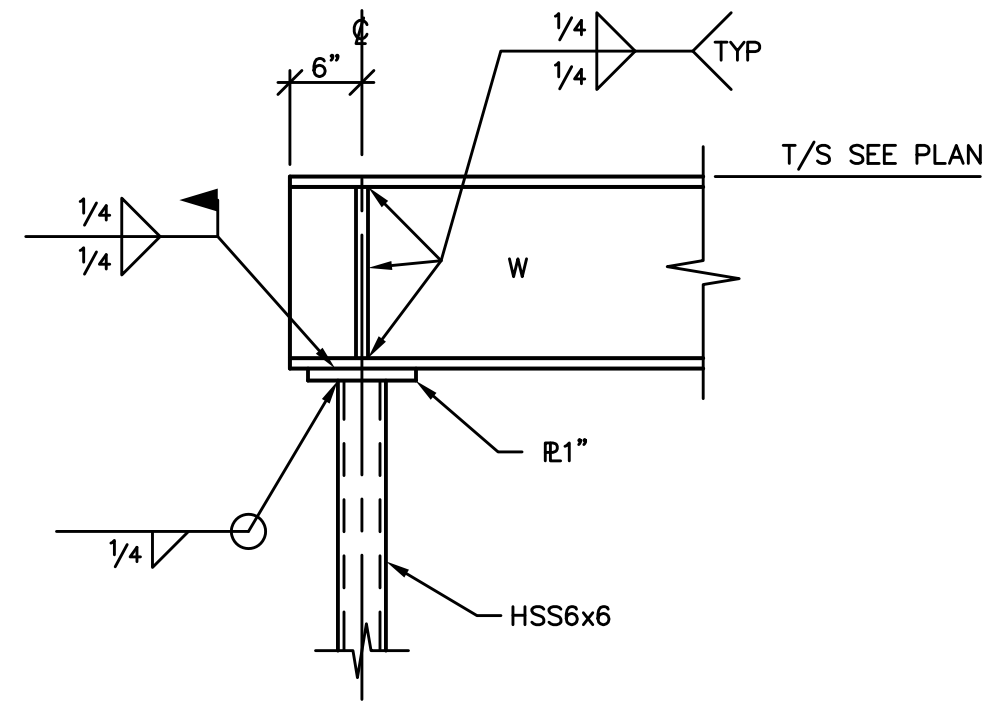
2 DETAIL
SCALE: NONE
BP2



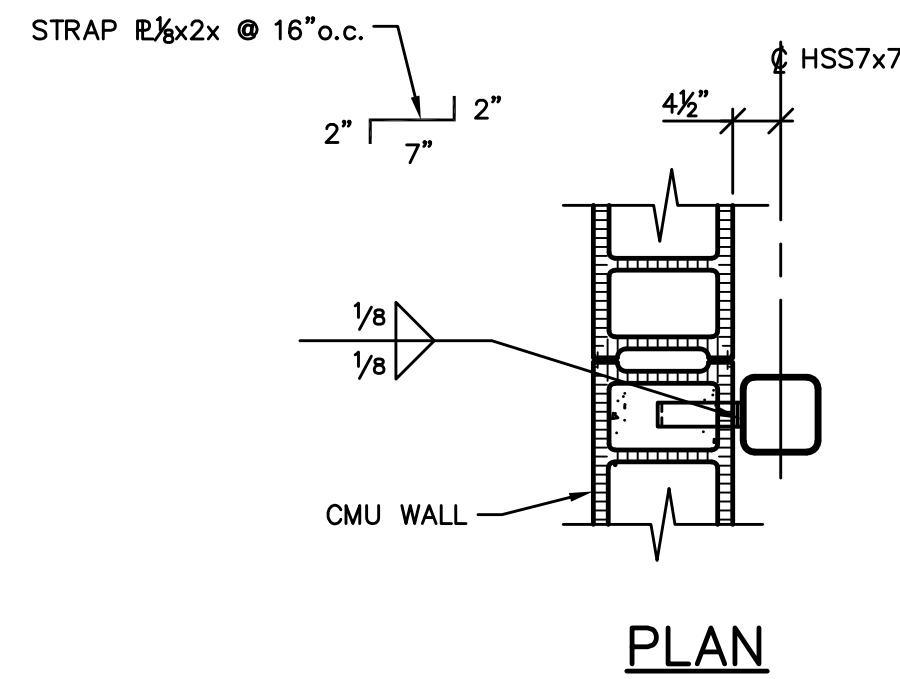
3 DETAIL
LINTEL BEAM



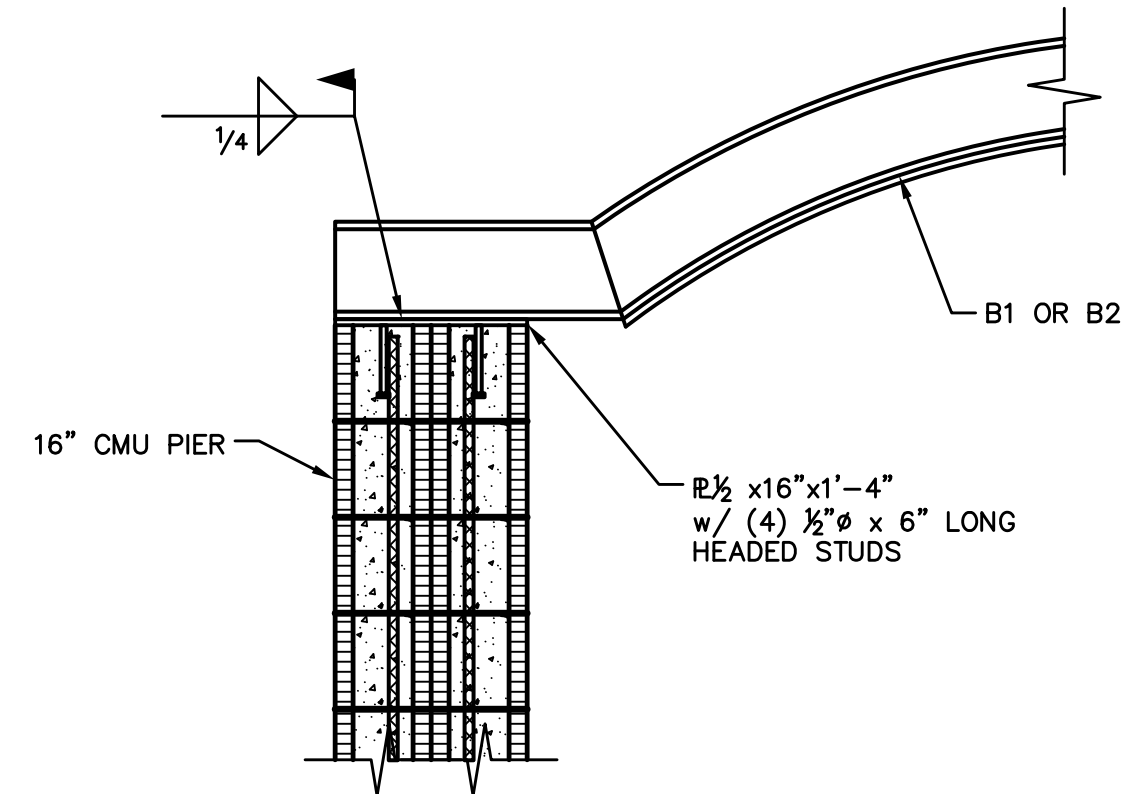
5 SECTION
SCALE: NONE
BEAM SPLICE



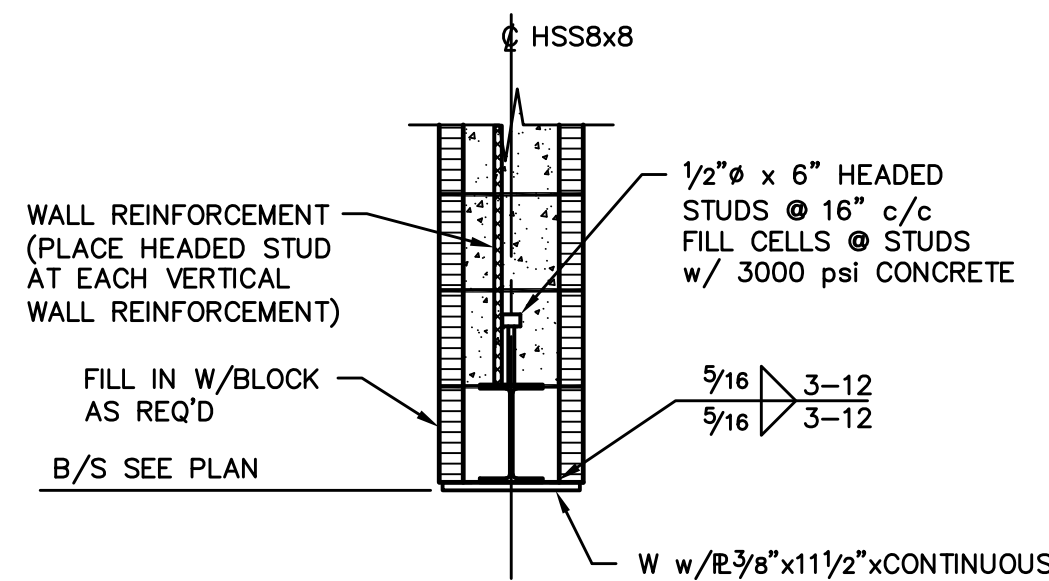
6 DETAIL
SCALE: NONE
BEAM OVER COLUMN



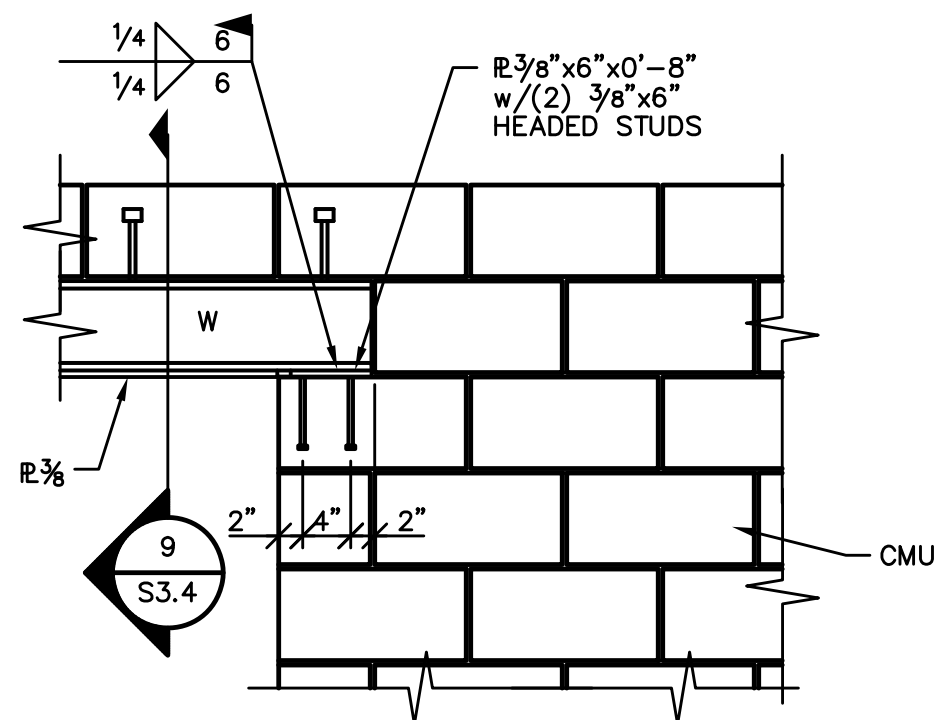
7 DETAIL
SCALE: NONE
COLUMN STRAP TO CMU



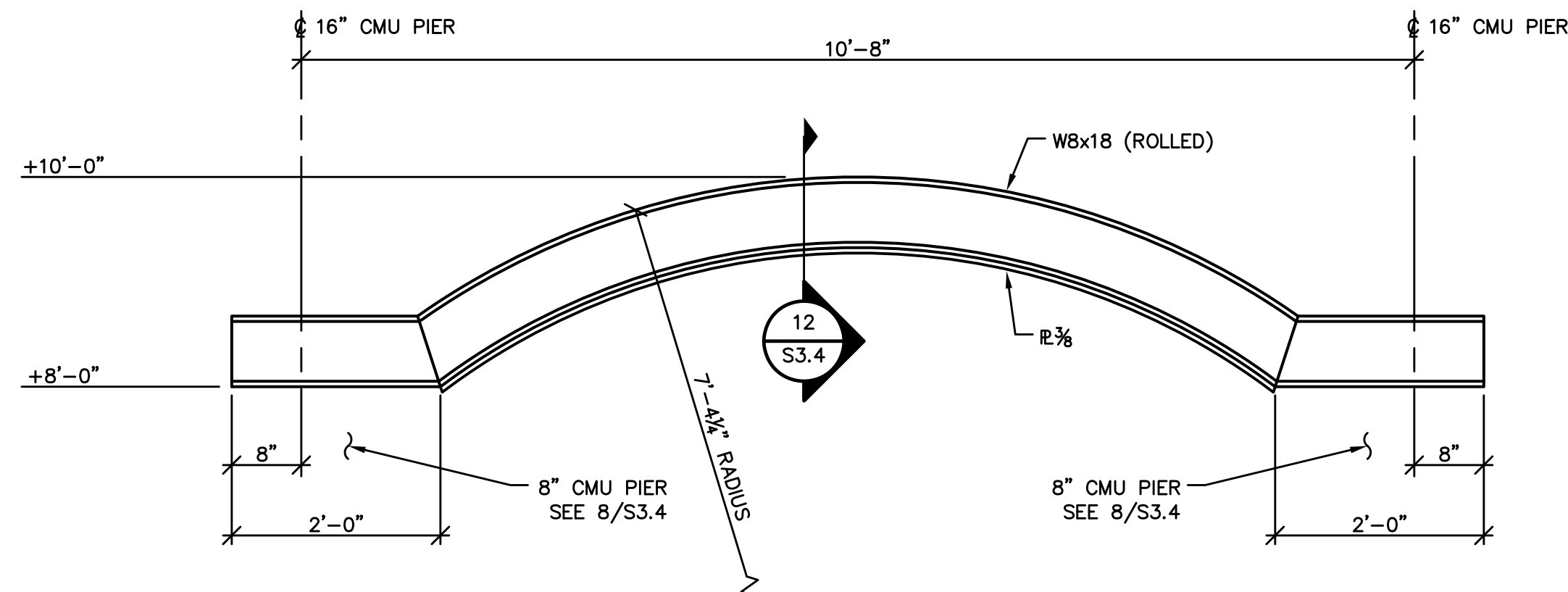
8 SECTION
SCALE: NONE
CMU PIER



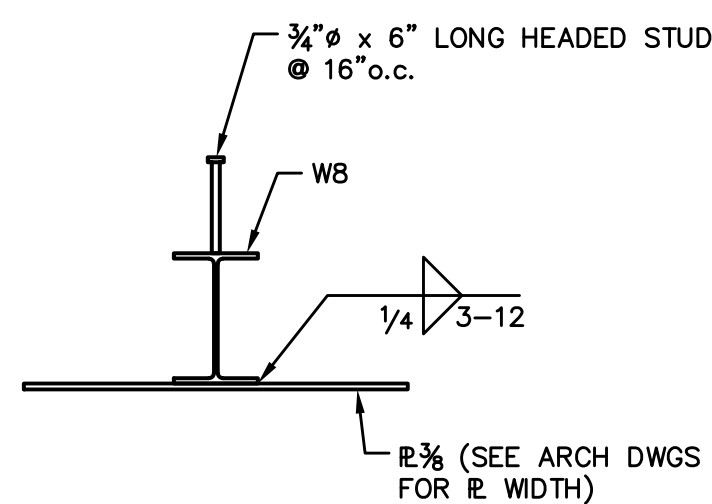
9 SECTION
SCALE: NONE
LINTEL BEAM



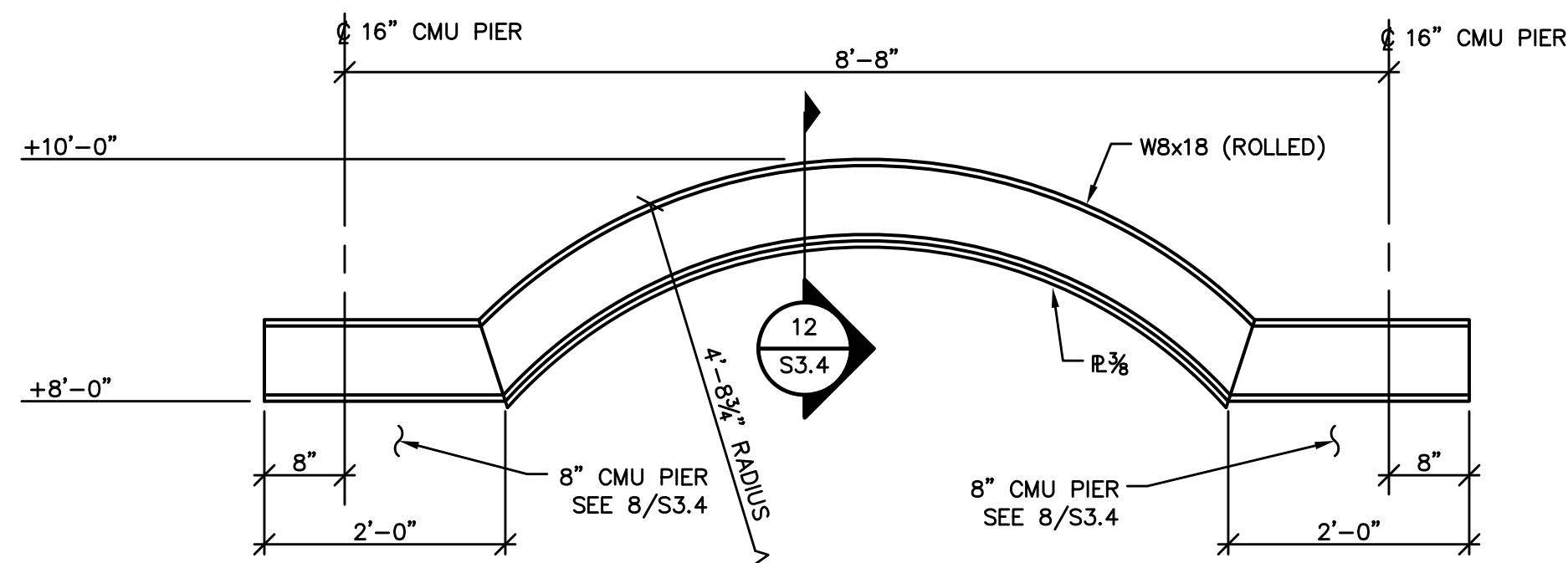
10 DETAIL
SCALE: NONE
LINTEL BEAM BEARING ON CMU



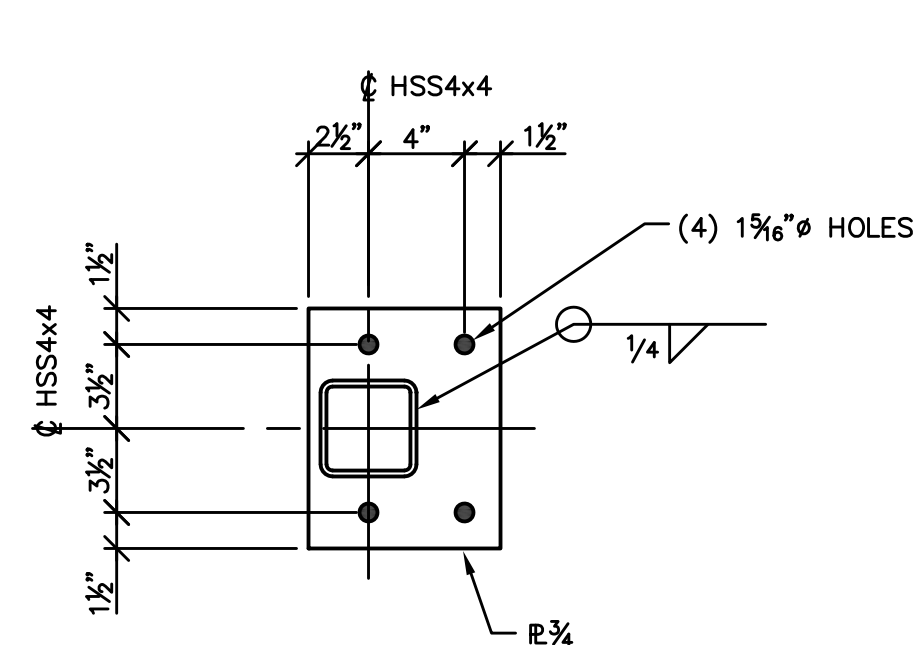
11 DETAIL
SCALE: NONE
LINTEL BEAM (B1) BEARING ON CMU PIER



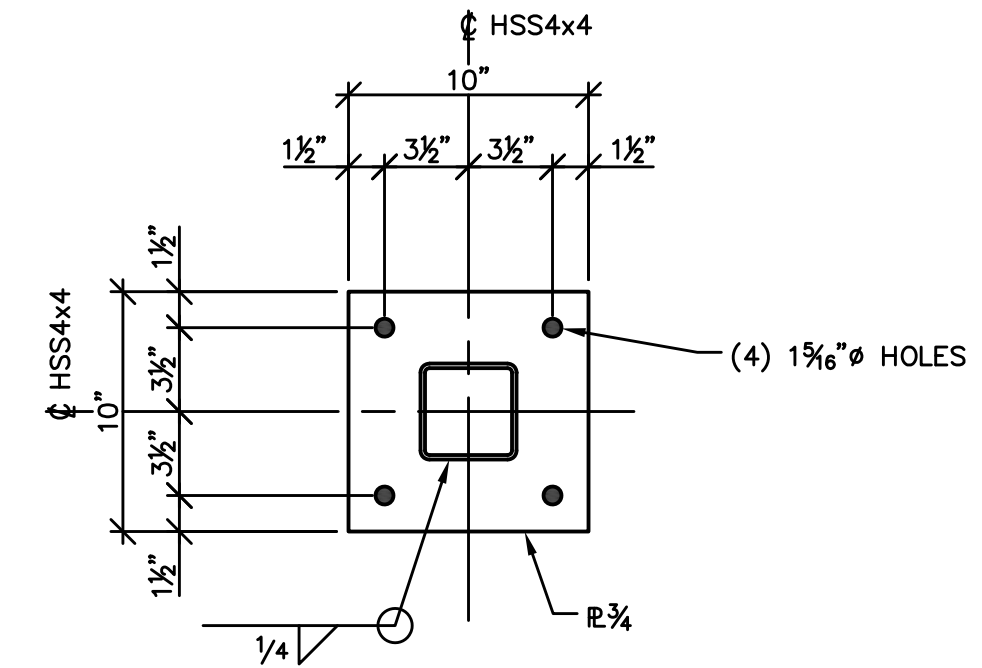
12 SECTION
SCALE: NONE
LINTEL BEAM B1 & B2



13 DETAIL
SCALE: NONE
LINTEL BEAM (B2) BEARING ON CMU PIER



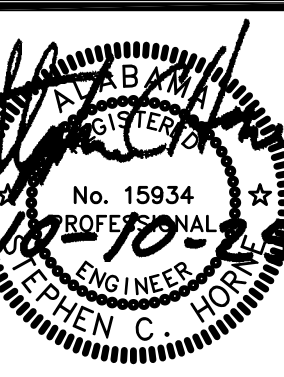
14 DETAIL
SCALE: NONE
BP3



15 DETAIL
SCALE: NONE
BP4

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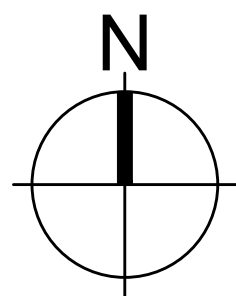
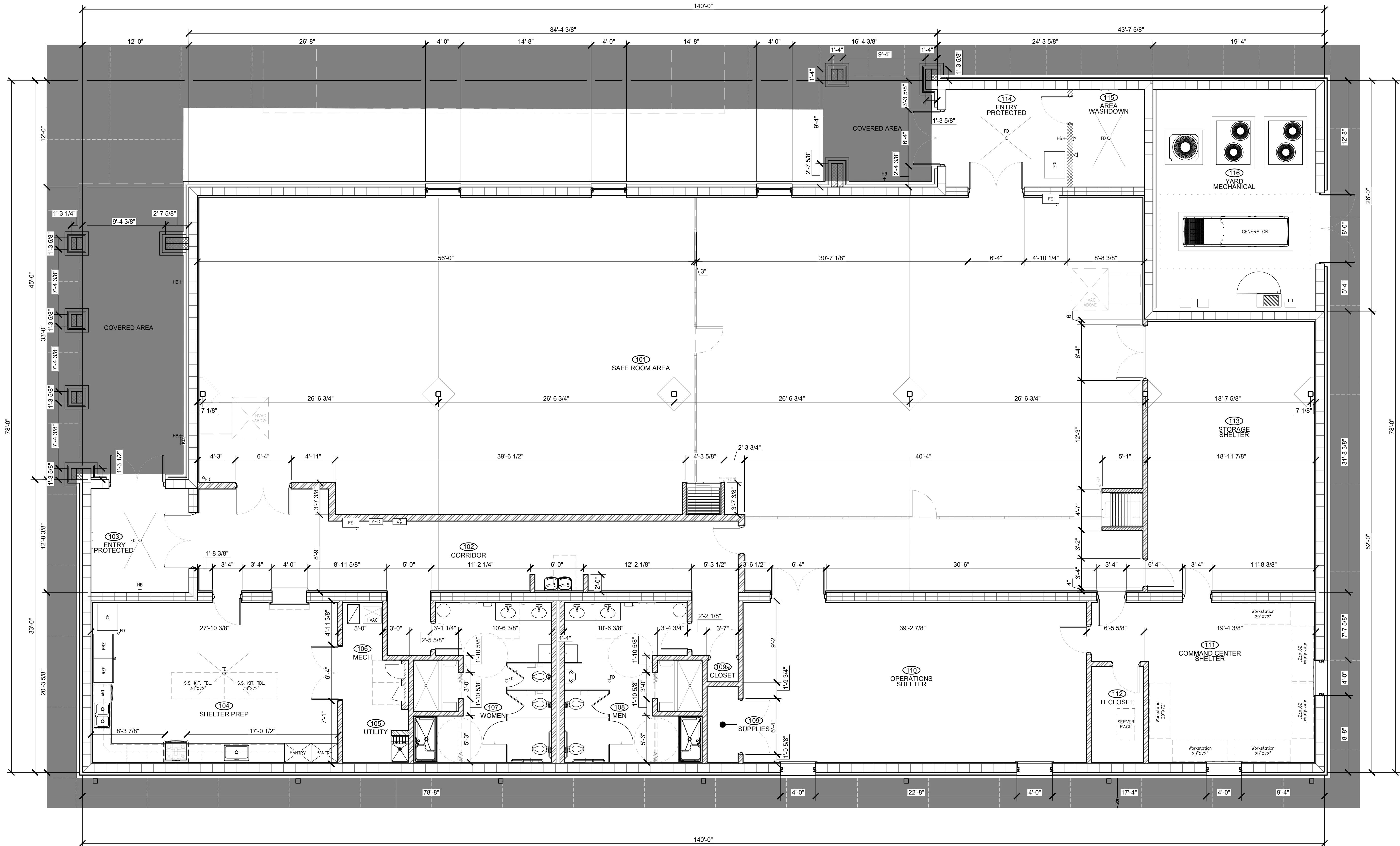
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THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027 / S0325

SHEET NO:
SECTIONS &
DETAILS
S3.4

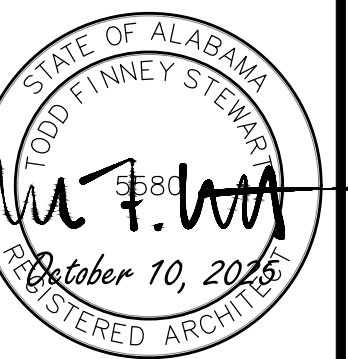
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1 DIMENSIONED FLOOR PLAN

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

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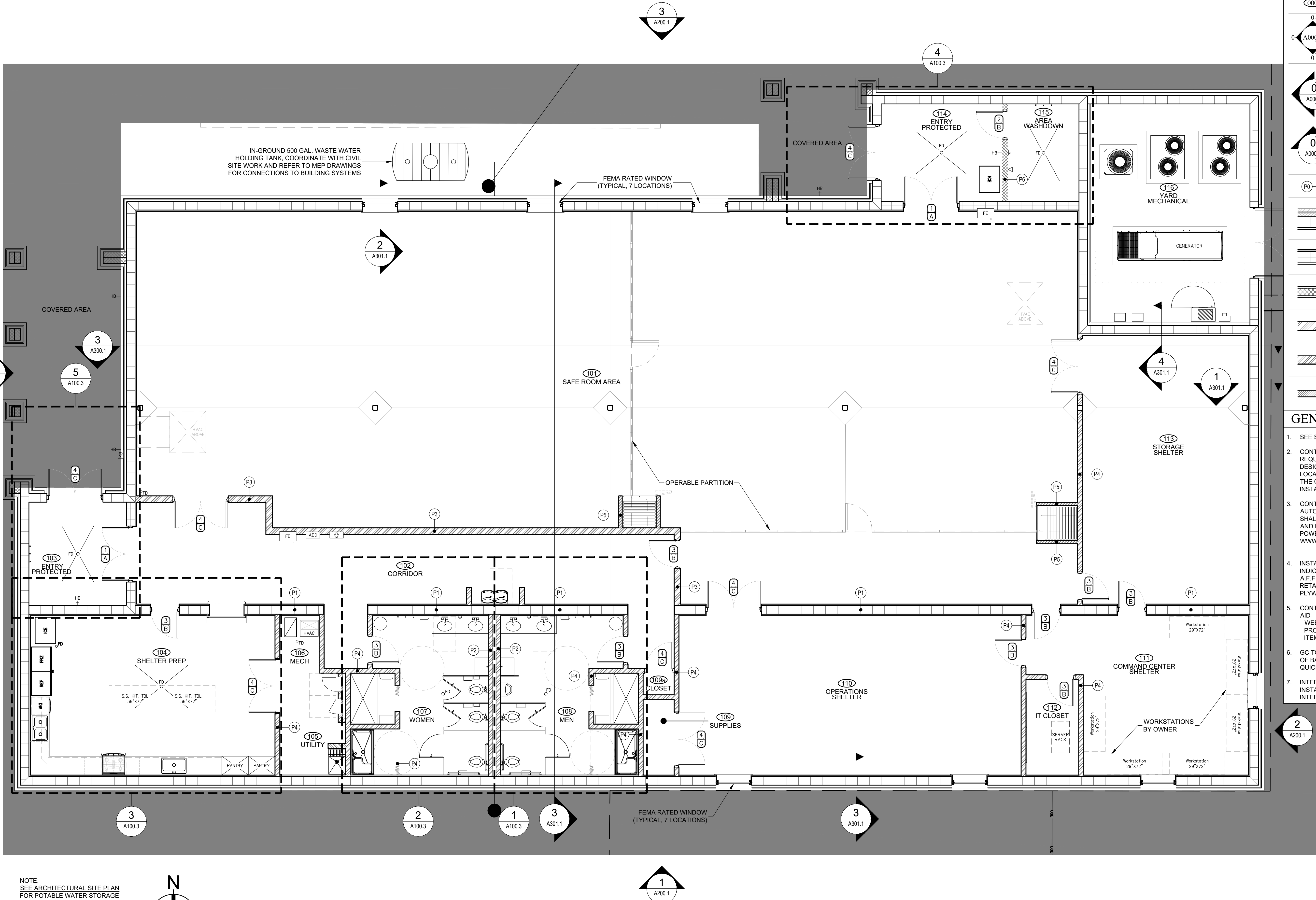
PROJECT NO: 24-027

SHEET NO:

DIMENSIONED
FLOOR PLAN

A100.1

- z:\jobs 2024\24-027 city of foley first responder hurricane safe room\1 working drawings\03 construction documents\24-027_A100.2 Arch Floor Plan.dwg



SYMBOLS LEGEND:

DOOR TYPE

DOOR SYMBOL
(REFER TO SHEET A500.1)

FRAME TYPE

WINDOW TYPE
(REFER TO SHEET A500.1)

ROOM NAME

ROOM FINISH TARGET;
SEE SHEET A600.1 FOR ROOM
FINISH SCHEDULE

0—ELEVATION NUMBER

0 A000.0 0

—SHEET NUMBER

0—VIEW DIRECTION

ELEVATION NUMBER

0 A000.0

—SHEET NUMBER

0—SECTION NUMBER

0 A000.0

—SECTION TARGET

0 A000.0

—SHEET NUMBER

0—PARTITION TYPE

SHEETS SHEET A302.1

EXTERIOR WALL CONSTRUCTION:
12" CMU WALL W/ 5/8" TYPE-X GYP. OVER
1-1/2 HAT CHANNELS; SEE SECTIONS

INTERIOR WALL CONSTRUCTION:
12" CMU WALL W/ 5/8" TYPE-X GYP. OVER
1-1/2 HAT CHANNELS; SEE SECTIONS

INTERIOR WALL CONSTRUCTION:
8" LT. GA. MTL. FRAMED W/ 5/8" TYPE-X
GYP. EACH SIDE; SEE A302.1

INTERIOR WALL CONSTRUCTION:
6" LT. GA. MTL. FRAMED W/ 5/8" TYPE-X
GYP. EACH SIDE; SEE A302.1

INTERIOR WALL CONSTRUCTION:
3-5/8" LT. GA. MTL. FRAMED W/ 5/8"
TYPE-X GYP. EACH SIDE; SEE A302.1

GENERAL NOTES:

1. SEE SPECS FOR HARDWARE SCHEDULE

2. CONTRACTOR IS TO PROVIDE & INSTALL ALL REQUIRED FIRE EXTINGUISHERS IN LOCATIONS AS DESIGNATED IN THE FLOOR PLAN. VERIFY ALL LOCATIONS WITH THE LOCAL FIRE INSPECTOR AND THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION. SEE SPECIFICATIONS. SEE A103.1

3. CONTRACTOR IS TO PROVIDE & INSTALL AN AUTOMATIC EXTERNAL DEFIBRILLATOR (AED). THIS SHALL BE INSTALLED IN A FULLY RECESSED CABINET AND PROVIDED WITH (1) "CARDIAC SCIENCE, POWERHEART AED G3 PLUS".
WWW.CARDIACSCIENCE.COM/PRODUCTS/POWERHEART-G3-AED-PLUS

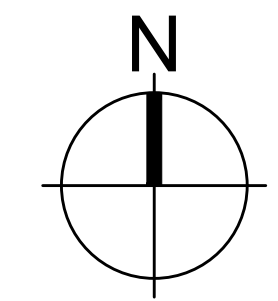
4. INSTALL 3/4" FR TREATED PLYWOOD AT WALLS AS INDICATED IN TELECOM ROOM. INSTALL FROM 12" A.F.F. TO 9'-0" A.F.F. PAINT "GRAY" WITH ONE (1) FIRE RETARDANT STAMP EXPOSED PER SHEET OF PLYWOOD. SEE ELECTRICAL

5. CONTRACTOR TO PROVIDE ONE (1) SHELTER FIRST AID
WEBSITE: WWW.ALLTHINGSFIRSTAID.COM
PRODUCT: DISASTER FIRST AID STATION 2
ITEM #: SS49009-SHELTER2

6. GC TO PROVIDE CONCRETE CURE AND SEAL AS PART OF BASE BID ONE. PRODUCT SHALL BE EQUAL TO: QUICKCRETE, ACRYLIC CURE AND SEAL, SATIN FINISH.

7. INTERIOR ROOM SIGNAGE PROVIDED BY AND INSTALLED BY GENERAL CONTRACTOR, TYPICAL ALL INTERIOR ROOM SIGNAGE.

NOTE:
SEE ARCHITECTURAL SITE PLAN
FOR POTABLE WATER STORAGE



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

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Robertsdale, Alabama 36567
Office: 251.947.3864

ISSUE	DATE	DESCRIPTION
1.	10.10.25	BID DOCUMENTS

THE CITY OF FOLEY

1ST RESPONDERS HURRICANE SHELTER

NORTH POPLAR STREET
FOLEY, ALABAMA 36535

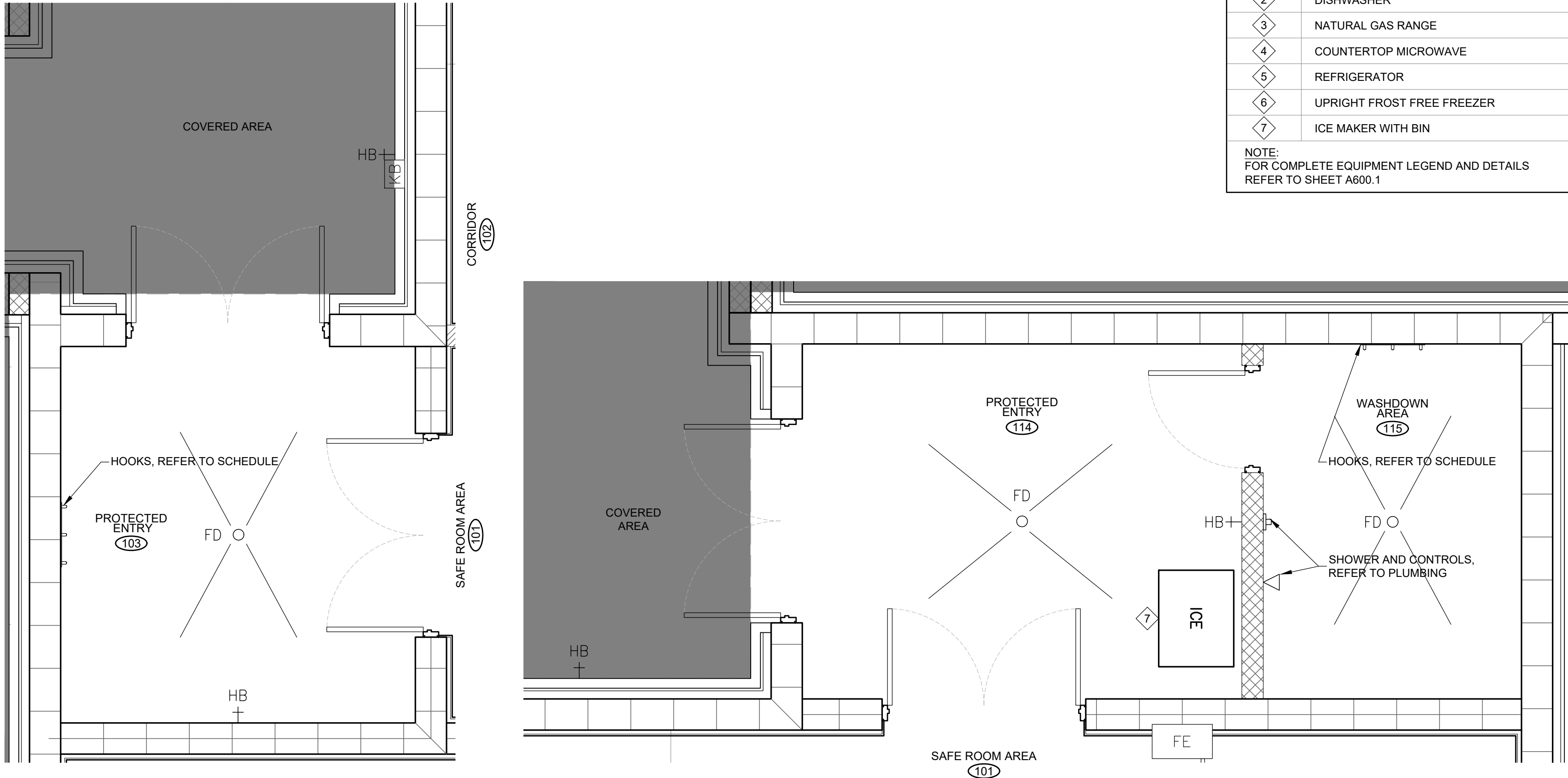
PROJECT NO: 24-027

SHEET NO:

ARCHITECTURAL
FLOOR PLAN

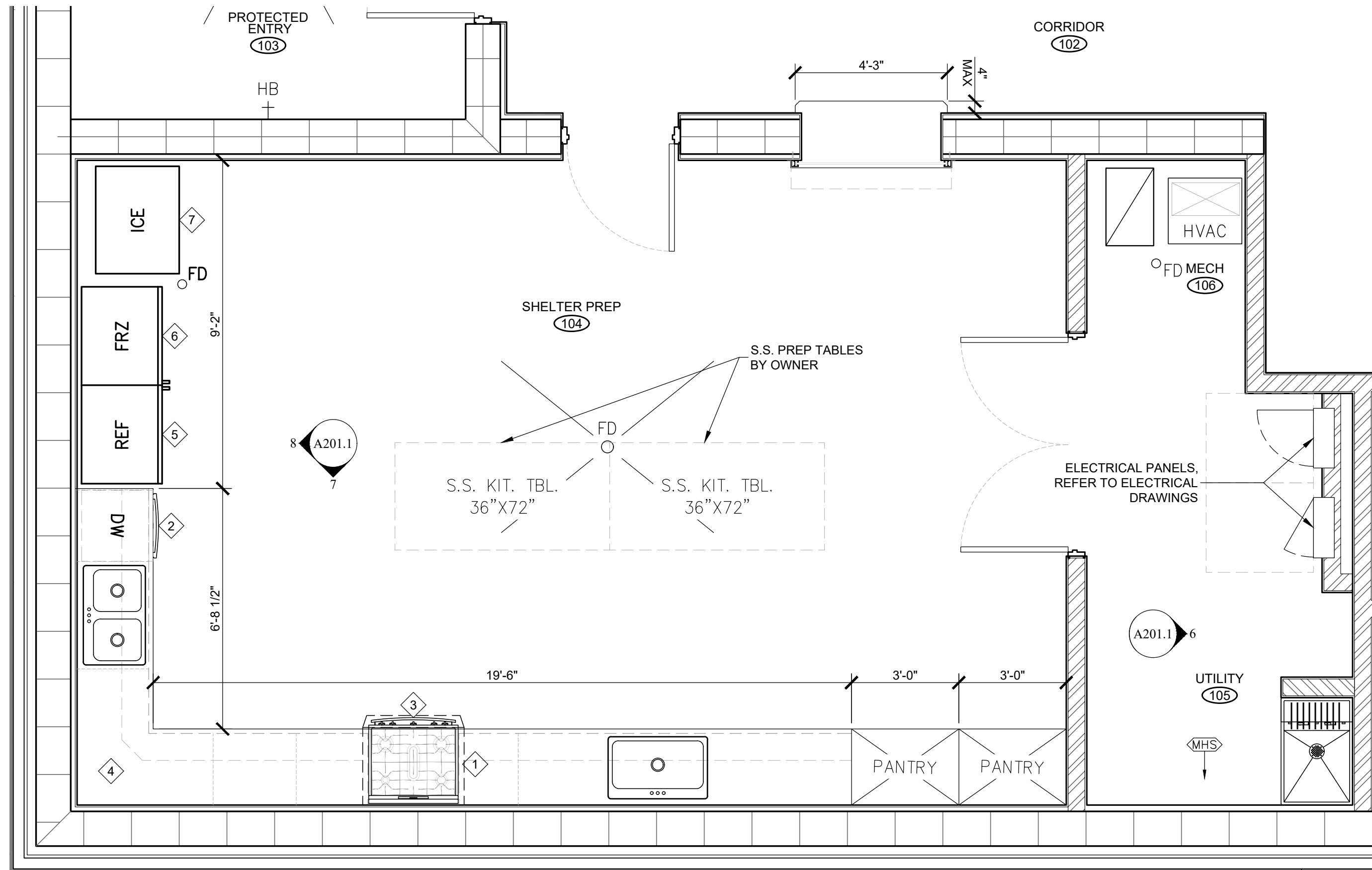
A100.2

- z:\jobs 2024\24-027 city of foley first responder hurricane safe room\01 working drawings\03 construction documents\24-027_A100.3 Enlg Floor Plns.dwg

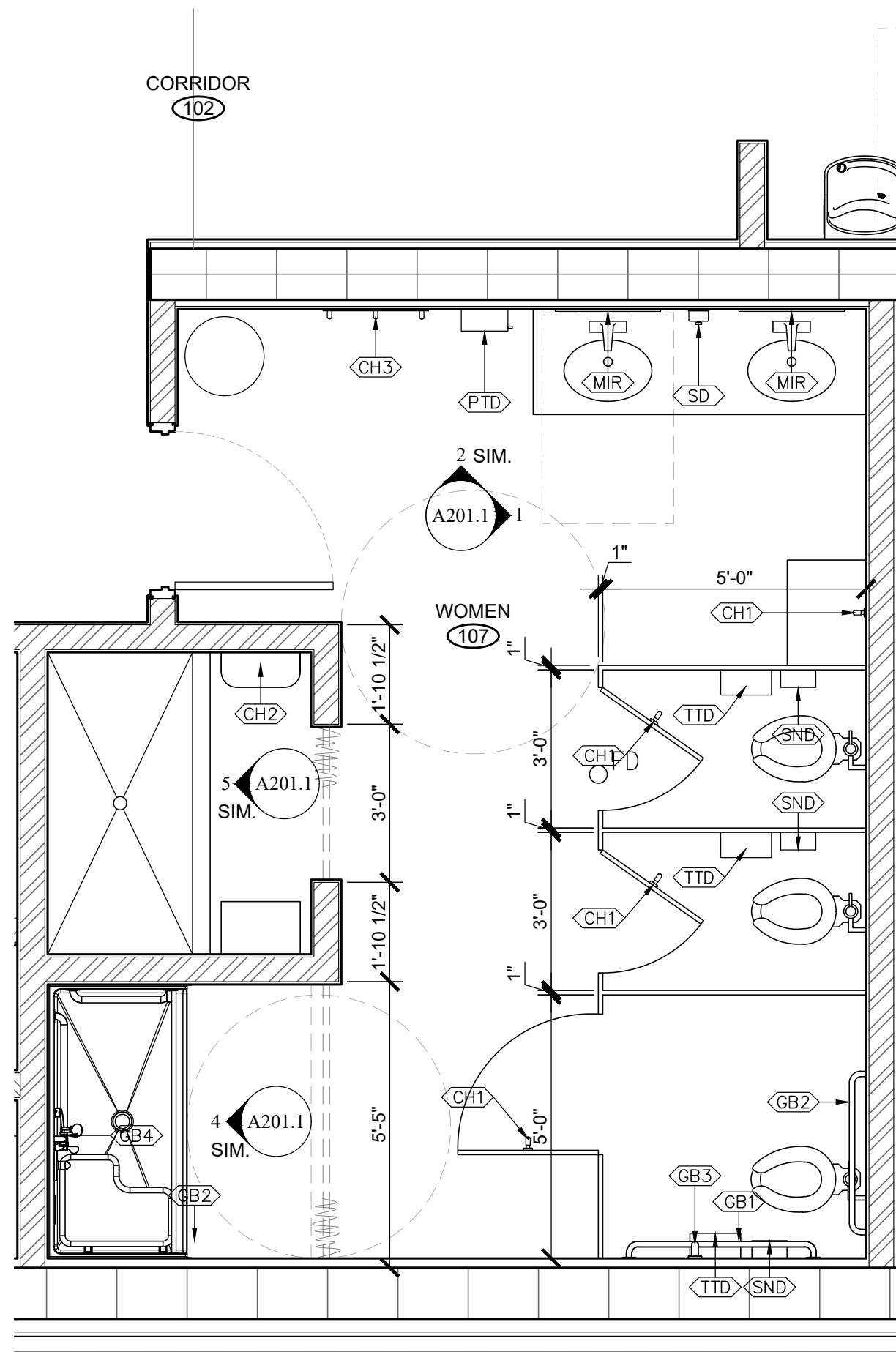


5 ENLARGED FLOOR PLAN
SCALE: 3/8" = 1'-0"

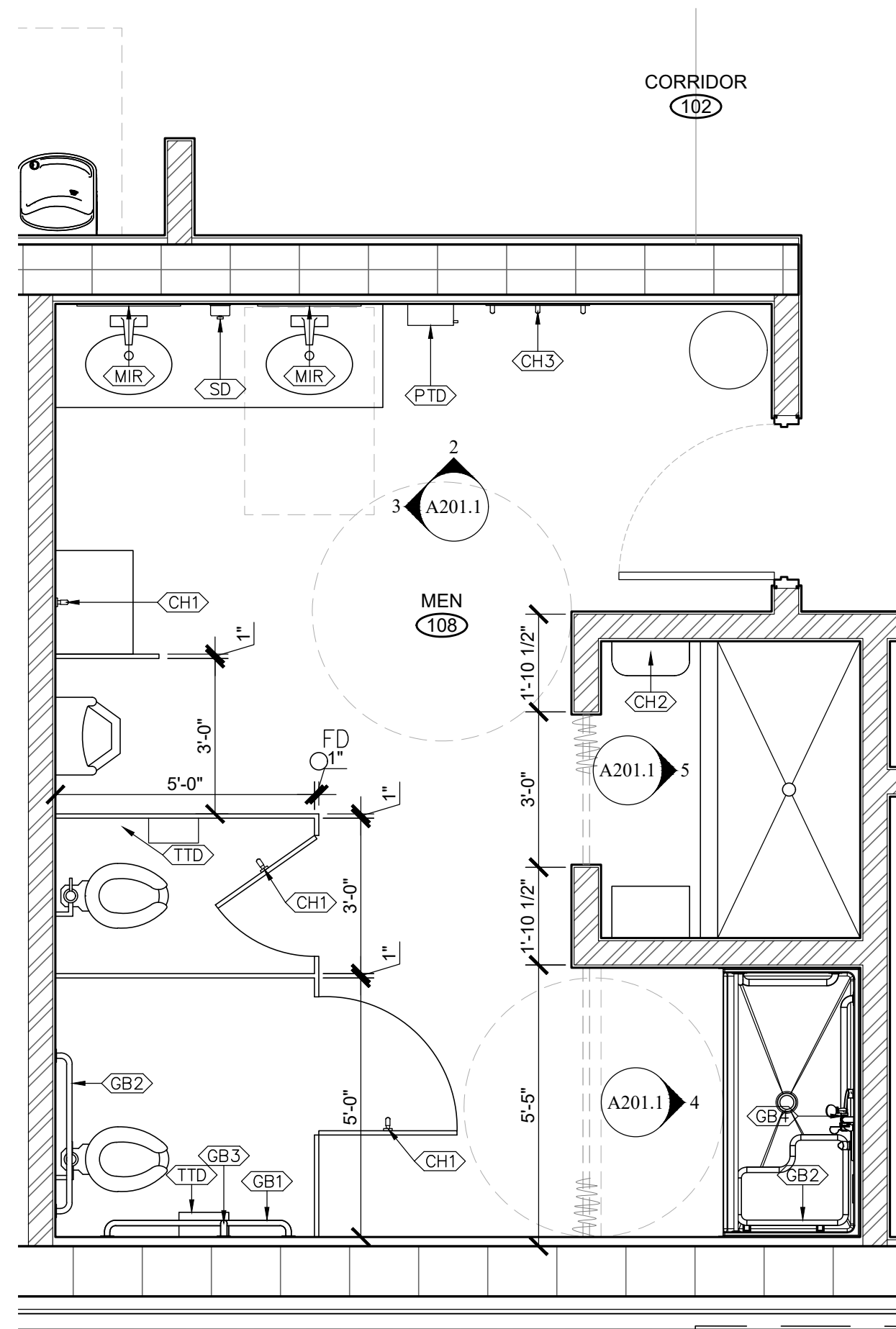
4 ENLARGED FLOOR PLAN
SCALE: 3/8" = 1'-0"



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



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



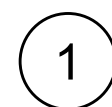
1 ENLARGED FLOOR PLAN
SCALE: 3/8" = 1'-0"

EQUIPMENT LEGEND	
SYMBOL	ITEM DESCRIPTION
1	COOKTOP HOOD W/ANSUL SYSTEM
2	DISHWASHER
3	NATURAL GAS RANGE
4	COUNTERTOP MICROWAVE
5	REFRIGERATOR
6	UPRIGHT FROST FREE FREEZER
7	ICE MAKER WITH BIN
NOTE: FOR COMPLETE EQUIPMENT LEGEND AND DETAILS REFER TO SHEET A600.1	

TOILET ACCESSORIES:	
SYMBOL	ITEM DESCRIPTION
TTD	TOILET TISSUE DISPENSER
PTD	WALL MTD. PAPER TOWEL DISPENSER
GB1	42" GRAB BAR
GB2	36" GRAB BAR
GB3	18" GRAB BAR
GB4	18" GRAB BAR
SD	SOAP DISPENSER
MIR	MIRROR ADA (24X36)
SND	SANITARY NAPKIN DISPOSAL
MHS	MOP HANGERS w/ SHELF
CH1	COAT HOOK
CH2	COAT HOOK/SHELF
CH3	COAT HOOK
NOTE: FOR COMPLETE TOILET/ACCESSORIES SCHEDULE REFER TO SHEET A600.1	

- GENERAL NOTES:
- SEE SPECS FOR HARDWARE SCHEDULE
 - CONTRACTOR IS TO PROVIDE & INSTALL ALL REQUIRED FIRE EXTINGUISHERS IN LOCATIONS AS DESIGNATED IN THE FLOOR PLAN. VERIFY ALL LOCATIONS WITH THE LOCAL FIRE INSPECTOR AND THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION. SEE SPECIFICATIONS. SEE A103.1
 - CONTRACTOR IS TO PROVIDE & INSTALL AN AUTOMATIC EXTERNAL DEFIBRILLATOR (AED). THIS SHALL BE INSTALLED IN A FULLY RECESSED CABINET AND PROVIDED WITH (1) "CARDIAC SCIENCE, POWERHEART AED G3 PLUS".
WWW.CARDIACSCIENCE.COM/PRODUCTS/POWERHEART-G3-AED-PLUS
 - INSTALL 3/4" FR TREATED PLYWOOD AT WALLS AS INDICATED IN TELECOM ROOM. INSTALL FROM 12" A.F.F. TO 9'-0" A.F.F. PAINT "GRAY" WITH ONE (1) FIRE RETARDANT STAMP EXPOSED PER SHEET OF PLYWOOD. SEE ELECTRICAL
 - CONTRACTOR TO PROVIDE ONE (1) SHELTER FIRST AID
WEBSITE: WWW.ALLTHINGSFIRSTAID.COM
PRODUCT: DISASTER FIRST AID STATION 2
ITEM #: SS49009-SHELTER2
 - GC TO PROVIDE CONCRETE CURE AND SEAL AS PART OF BASE BID ONE, PRODUCT SHALL BE EQUAL TO: QUICKCRETE, ACRYLIC CURE AND SEAL, SATIN FINISH.
 - INTERIOR ROOM SIGNAGE PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR, TYPICAL ALL INTERIOR ROOM SIGNAGE.

SYMBOLS LEGEND:	
DOOR TYPE	DOOR SYMBOL (REFER TO SHEET A500.1)
FRAME TYPE	
ROOM NAME	ROOM FINISH TARGET; SEE SHEET A600.1 FOR ROOM FINISH SCHEDULE
ELEVATION NUMBER	INTERIOR ELEVATION TARGET
SHEET NUMBER	
VIEW DIRECTION	
ELEVATION NUMBER	EXTERIOR ELEVATION TARGET
SHEET NUMBER	
SECTION NUMBER	SECTION TARGET
SHEET NUMBER	
PARTITION TYPE	SHEETS SHEET A302.1
EXTERIOR WALL CONSTRUCTION:	12" CMU WALL W/ 5/8" TYPE-X GYP. OVER 5/8" TYPE-X GYP. OVER 1-1/2 HAT CHANNELS INTERIOR; SEE SECTIONS
INTERIOR WALL CONSTRUCTION:	12" CMU WALL W/ 5/8" TYPE-X GYP. OVER 1-1/2 HAT CHANNELS; SEE SECTIONS
INTERIOR WALL CONSTRUCTION:	8" LT. GA. MTL. FRAMED W/ 5/8" TYPE-X GYP. EACH SIDE; SEE A302.1
INTERIOR WALL CONSTRUCTION:	6" LT. GA. MTL. FRAMED W/ 5/8" TYPE-X GYP. EACH SIDE; SEE A302.1
INTERIOR WALL CONSTRUCTION:	3-5/8" LT. GA. MTL. FRAMED W/ 5/8" TYPE-X GYP. EACH SIDE; SEE A302.1



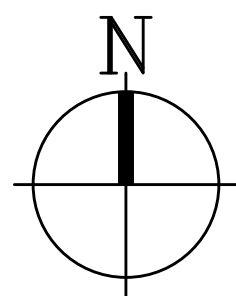
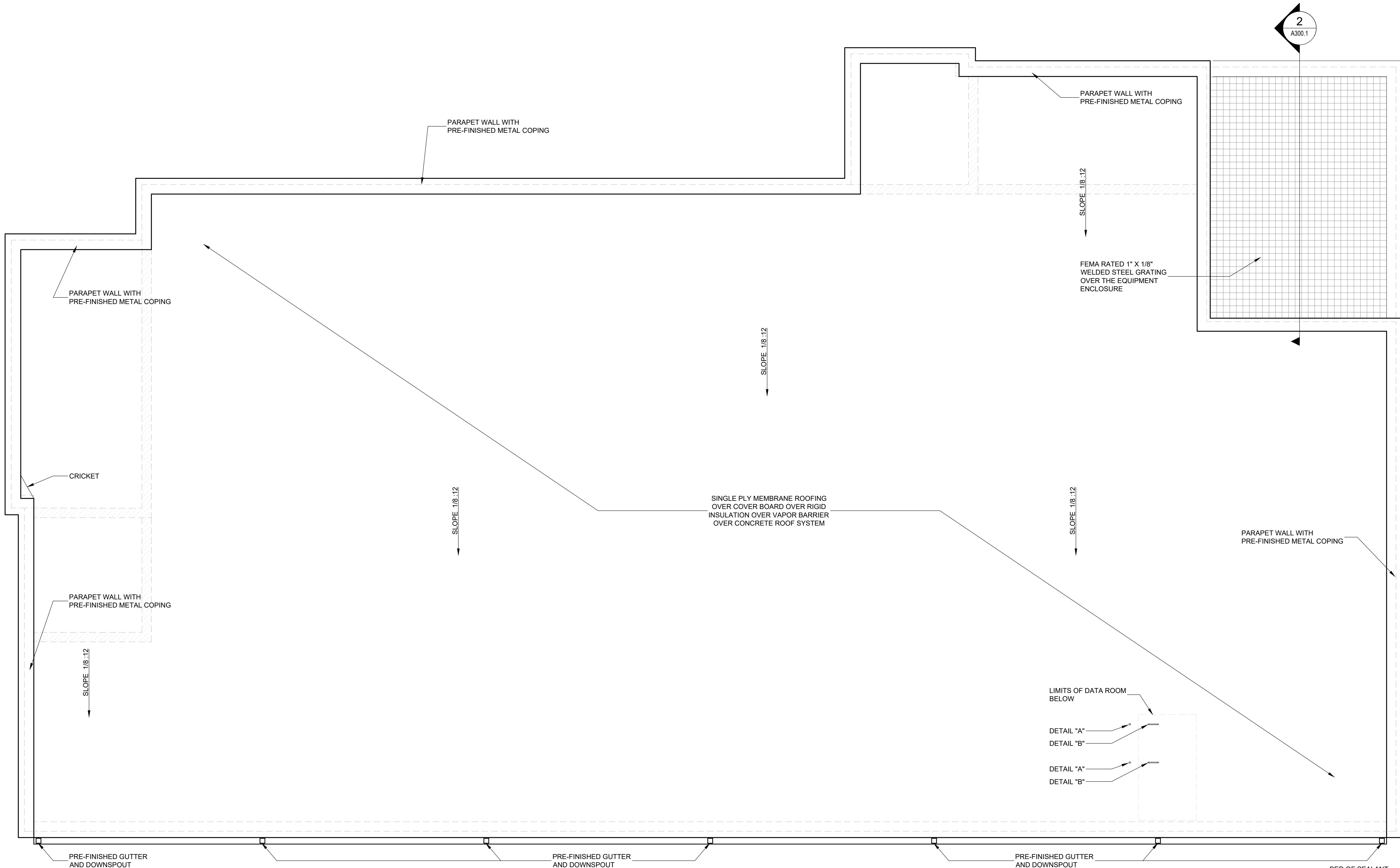
REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

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

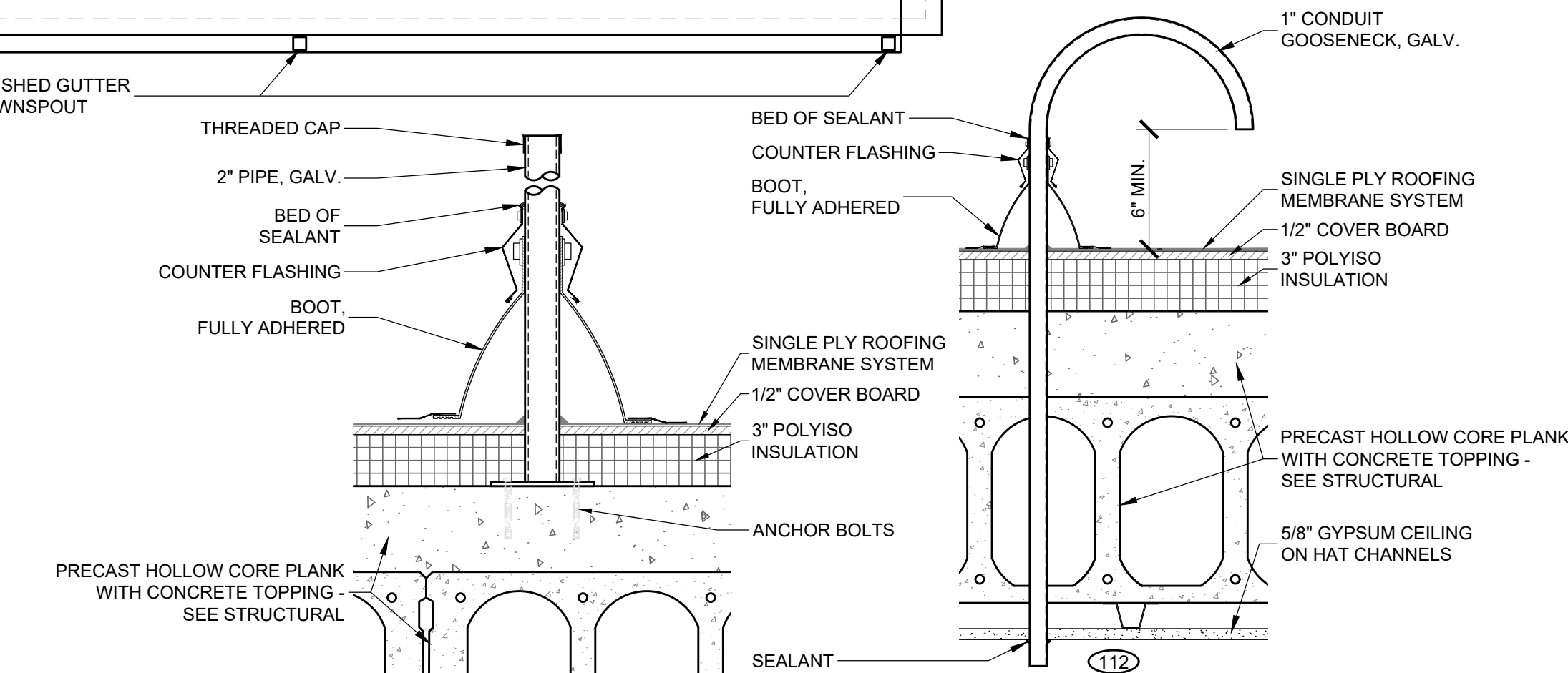
	ROOM FINISH TARGET; SEE SHEET CS6.0 FOR ROOM FINISH SCHEDULE
	EXTERIOR WALL CONSTRUCTION: 12" CMU WALL W/ 5/8" TYPE-X GYP. OVER 1-1/2 HAT CHANNELS INTERIOR; SEE SECTIONS
	INTERIOR WALL CONSTRUCTION: 12" CMU WALL W/ 5/8" TYPE-X GYP. OVER 1-1/2 HAT CHANNELS; SEE SECTIONS
	INTERIOR WALL CONSTRUCTION: 12" CMU WALL W/ 5/8" TYPE-X GYP. OVER 1-1/2 HAT CHANNELS; SEE SECTIONS
	INTERIOR WALL CONSTRUCTION: 8" LT. GA. MTL. FRAMED W/ 5/8" TYPE-X GYP. EACH SIDE. SEE A302.1
	INTERIOR WALL CONSTRUCTION: 6" LT. GA. MTL. FRAMED W/ 5/8" TYPE-X GYP. EACH SIDE. SEE A302.1
	INTERIOR WALL CONSTRUCTION: 3-5/8" LT. GA. MTL. FRAMED W/ 5/8" TYPE-X GYP. EACH SIDE. SEE A302.1
	ELEVATION NUMBER EXTERIOR ELEVATION TARGET
	SECTION NUMBER SECTION TARGET
	2X2 SURFACE MOUNTED LED SEE ELECTORAL DRAWINGS
	2X4 SURFACE MOUNTED LED SEE ELECTORAL DRAWINGS
	LED UNDER CABINET LIGHTING SEE ELECTORAL DRAWINGS
	LED CAN LIGHTING SEE ELECTORAL DRAWINGS
	EXIT SIGN / LIGHT SEE ELECTORAL DRAWINGS
	WALL MOUNTED LED SEE ELECTORAL DRAWINGS
	WALL MOUNTED LED SEE ELECTORAL DRAWINGS

1. ALL CEILING EXPOSED STRUCTURE UNLESS NOTED OTHERWISE.
2. ALL CEILING PAINTED. SEE FINISH SCHEDULE A600.1.
3. ALL EXPOSED DUCT AND ELECTRICAL CONDUIT TO MATCH THE UNDERSIDE OF THE STRUCTURE.
4. VERIFY ALL LIGHTING AND MECHANICAL FIXTURE PLACEMENTS WITH ELECTRICAL AND MECHANICAL DRAWING.

-z:\jobs 2024\24-027 city of foley first responder hurricane safe room\01 working drawings\03 construction documents\24-027_A102.1 Roof Plan.dwg



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



A ANTENNA MAST DETAIL
SCALE: 1 1/2" = 1'-0"

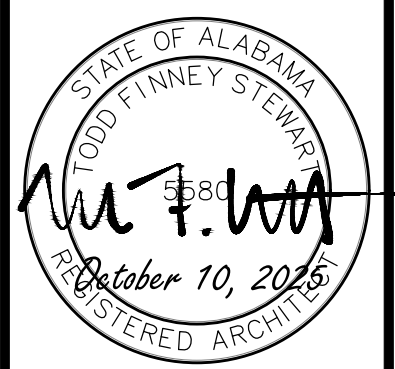
B ANTENNA CONDUIT DETAIL
SCALE: 1 1/2" = 1'-0"

SYMBOLS LEGEND:

- ELEVATION NUMBER
0
A000.0
SHEET NUMBER
- SECTION NUMBER
0
A000.0
SECTION TARGET
SHEET NUMBER

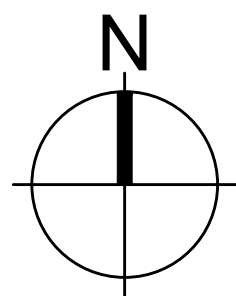
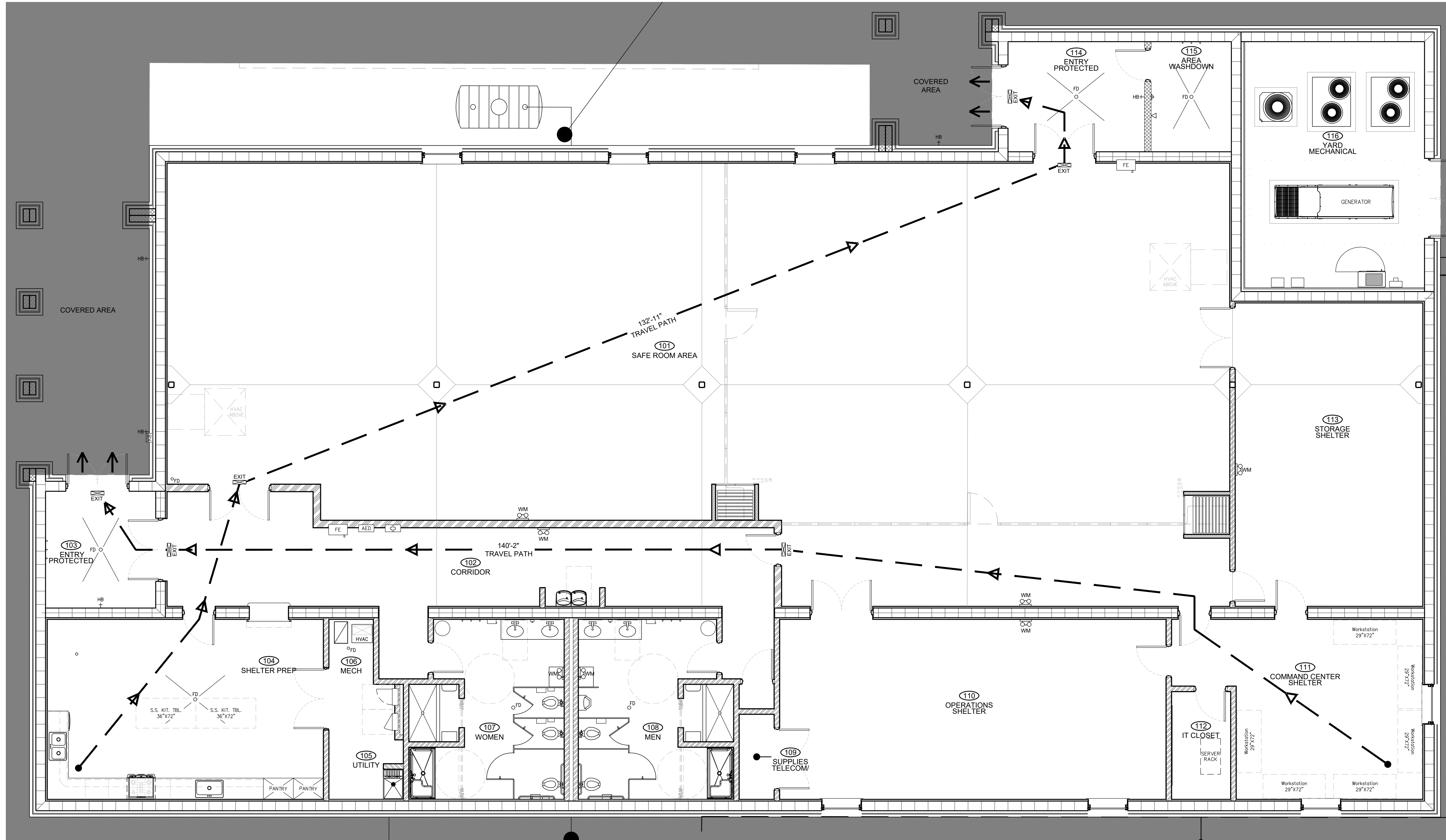
GENERAL NOTES:

- COORDINATE ALL THROUGH WALL VTR LOCATIONS WITH PLUMBING.
- COORDINATE ANTENNA CONDUITS AND MASTS LOCATIONS WITH ELECTRICAL AND CITY I.T. DEPARTMENT.



ISSUE	DATE	DESCRIPTION
1.	10.10.25	BID DOCUMENTS

- z:\jobs 2024\24-027 city of foley first responder hurricane safe room\01 working drawings\03 construction documents\24-027_A103.1 LSP.dwg



1 LIFE SAFETY PLAN

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

GENERAL NOTES

1. CONTRACTOR IS TO PROVIDE & INSTALL ALL REQUIRED FIRE EXTINGUISHERS IN LOCATIONS AS DESIGNATED IN THE FLOOR PLAN ABOVE. VERIFY ALL LOCATIONS WITH THE LOCAL FIRE INSPECTOR AND THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.

FIRE EXTINGUISHER
CABINET-RECESSED;
SEE PLAN FOR LOCATION

FIRE EXTINGUISHER- WALL MTD.;
SEE PLAN FOR LOCATION

INSTALL ALL FIRE EXTINGUISHERS WITH
A RECESSED ENCLOSURE OR BRACKET
AS SPECIFIED THAT IS COMPATIBLE WITH
EACH UNIT.

PLAN LEGEND

WALL MOUNTED EXIT LIGHT;
SEE ELECTRICAL

WALL MOUNTED
EMERGENCY LIGHT
WITH BATTERY BACKUP;
SEE ELECTRICAL

SAFE ROOM OCCUPANCY:

TOTAL BUILDING SQ. FT. = 9,368 sqft

TOTAL SAFE ROOM SQ. FT. = 4,124 sqft

SAFE ROOM OCCUPANCY

20 sqft / Wheelchair (2 Required) 40 sf/20 = 2
40 sqft / Bedridden (1 Required) 40 sf/40 = 1
20 sqft / Standing / Seating 4,044 sf/20 = 203

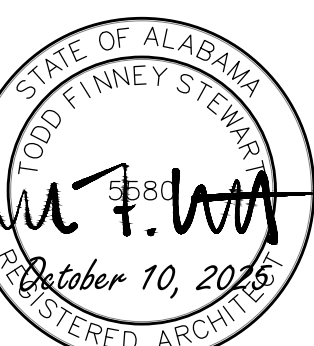
TOTAL OCCUPANCY = 206

NORMAL OCCUPANCY

Assembly Area: 4,124 sf @ 15 (net) = 274
Business Area: 1,875 sf @ 150 (gross) = 12
Kitchen Area: 576 sf @ 200 (gross) = 2

Total Occupancy: = 288

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ISSUE DATE DESCRIPTION
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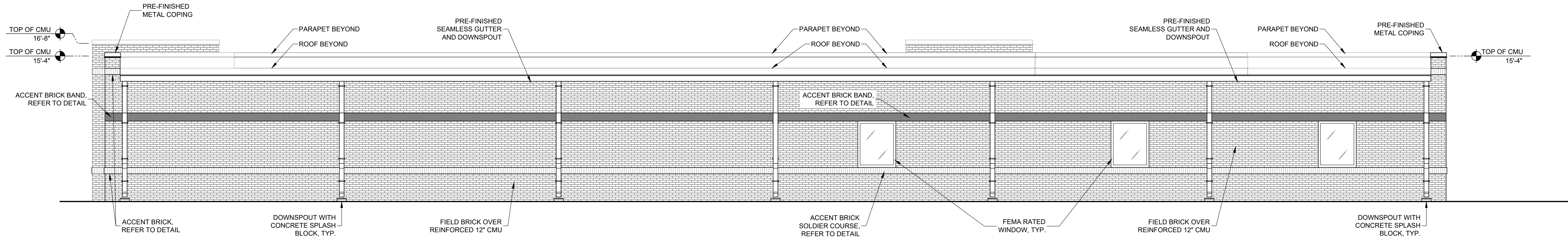
THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027

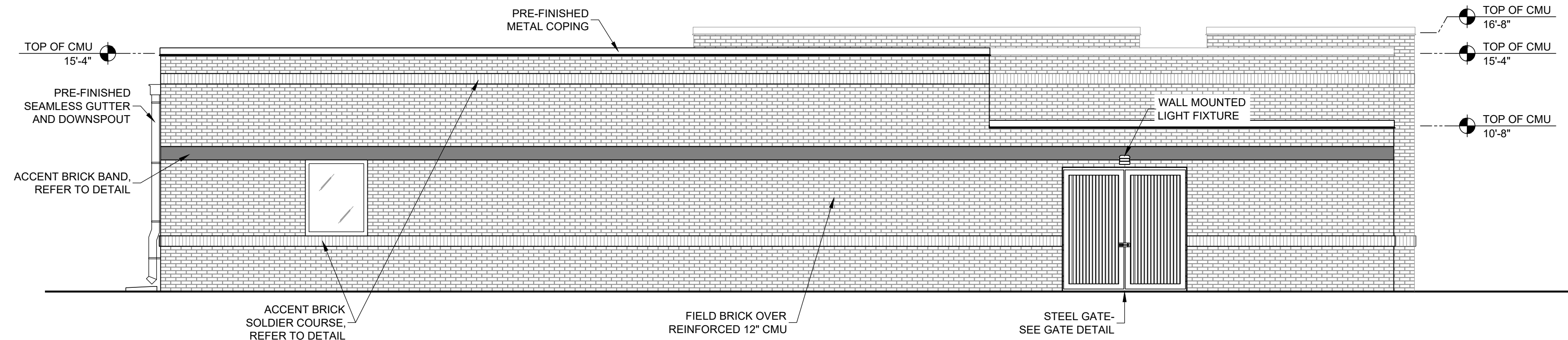
SHEET NO:

LIFE SAFETY
PLAN

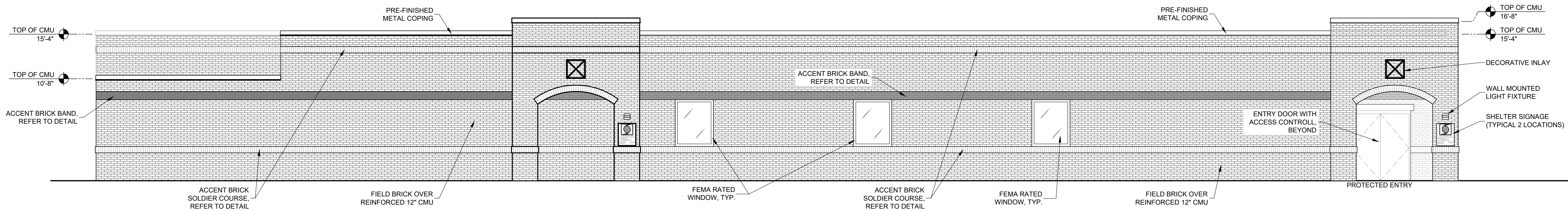
A103.1



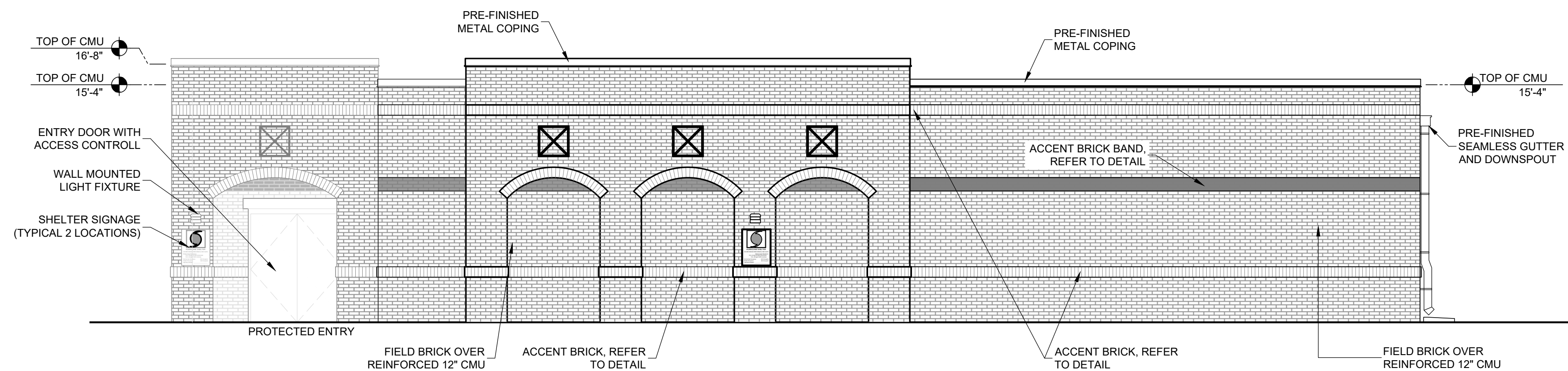
1 EXTERIOR ELEVATION - SOUTH
SCALE: 3/16" = 1'-0"



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



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

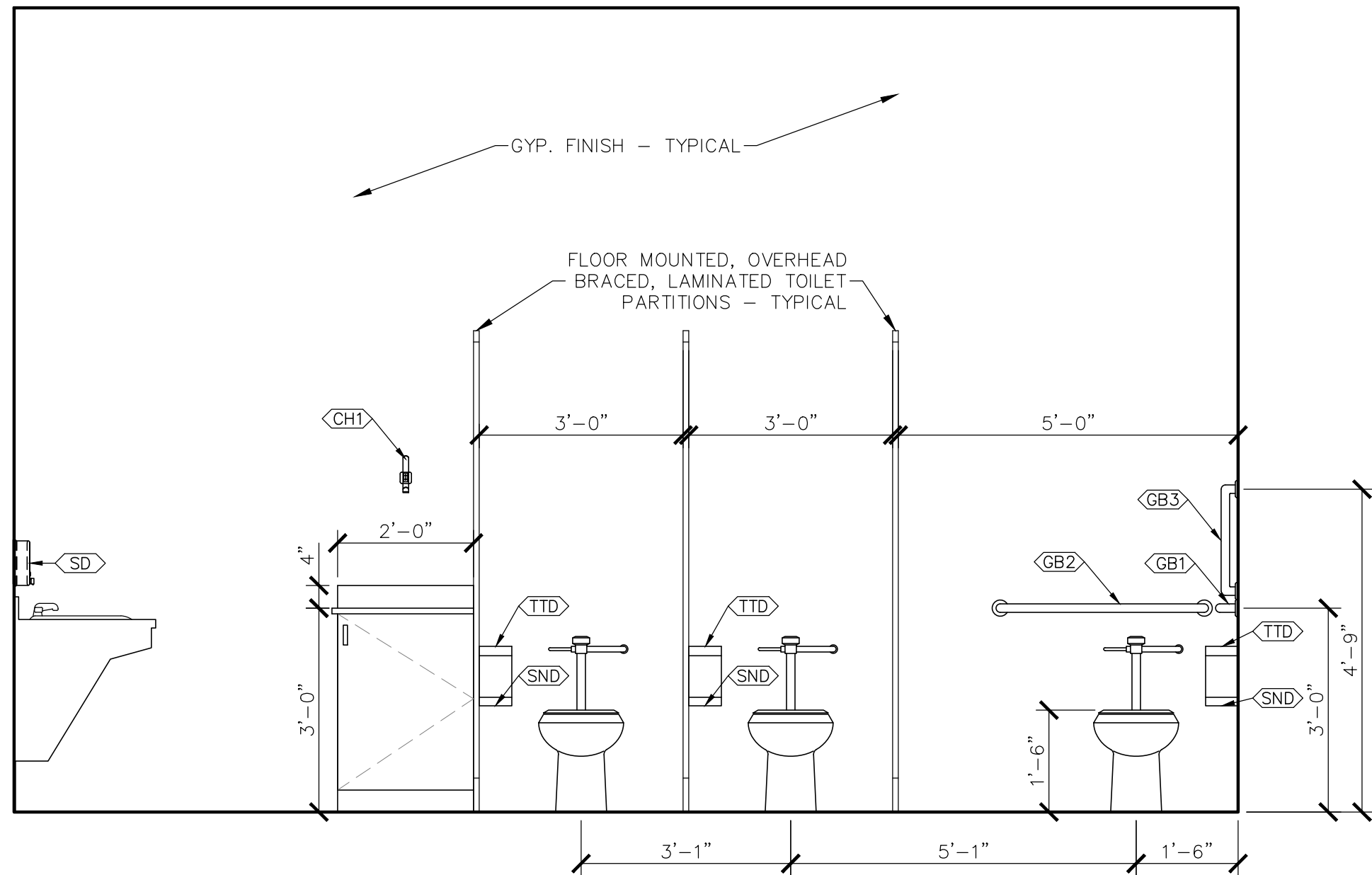


4 EXTERIOR ELEVATION - WEST
SCALE: 3/16" = 1'-0"

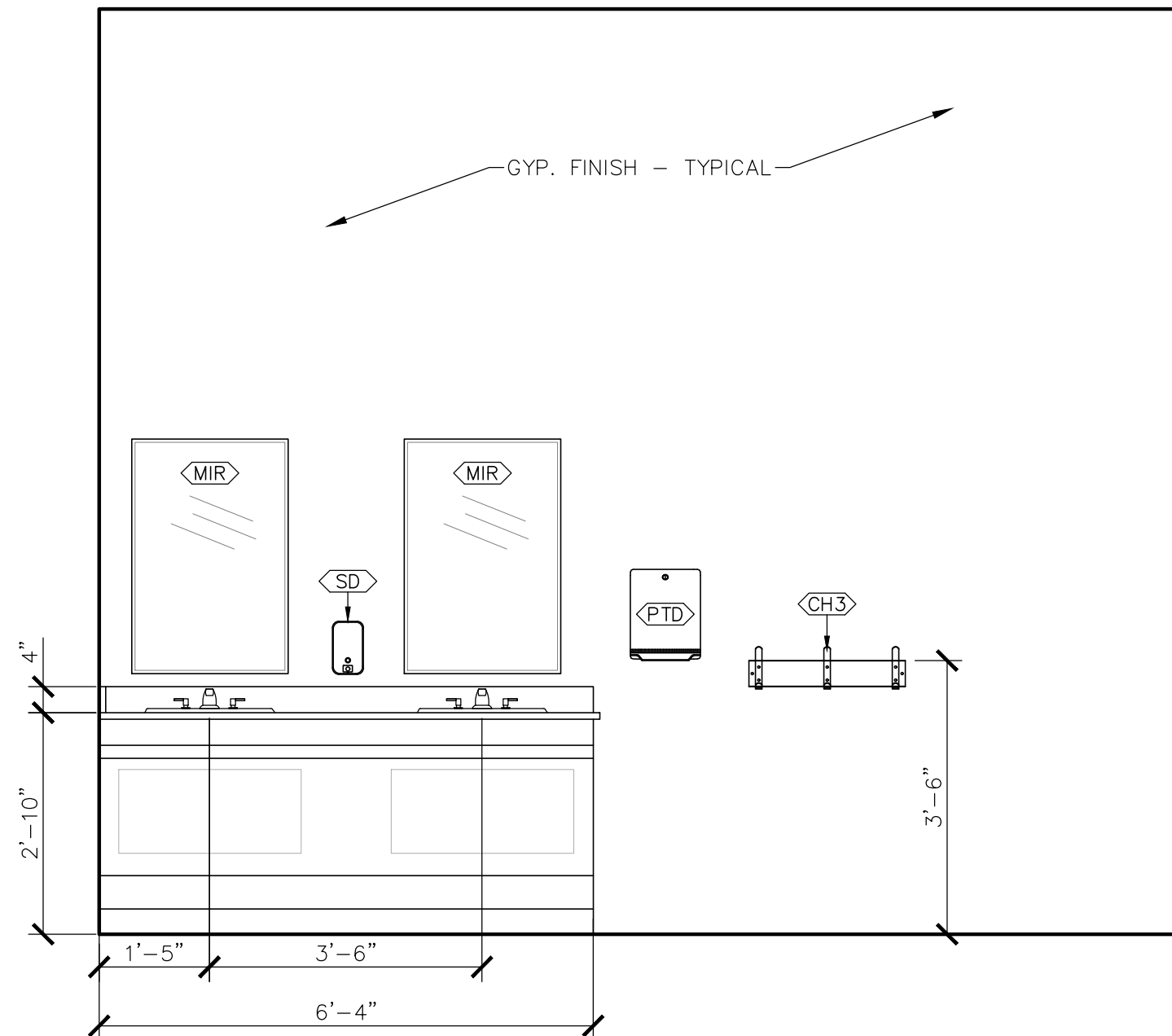
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ISSUE	DATE	DESCRIPTION
1.	10.10.25	BID DOCUMENTS

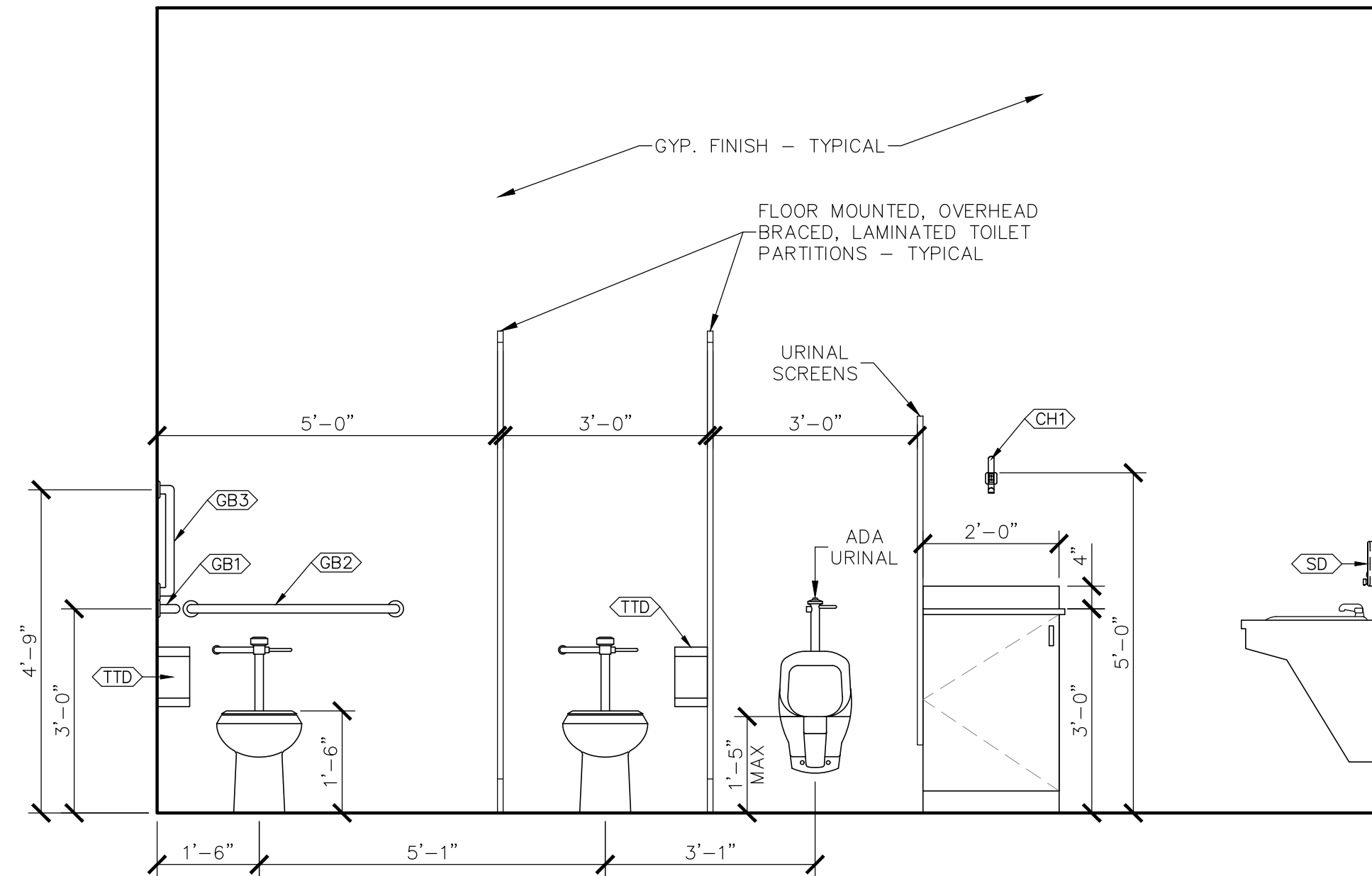
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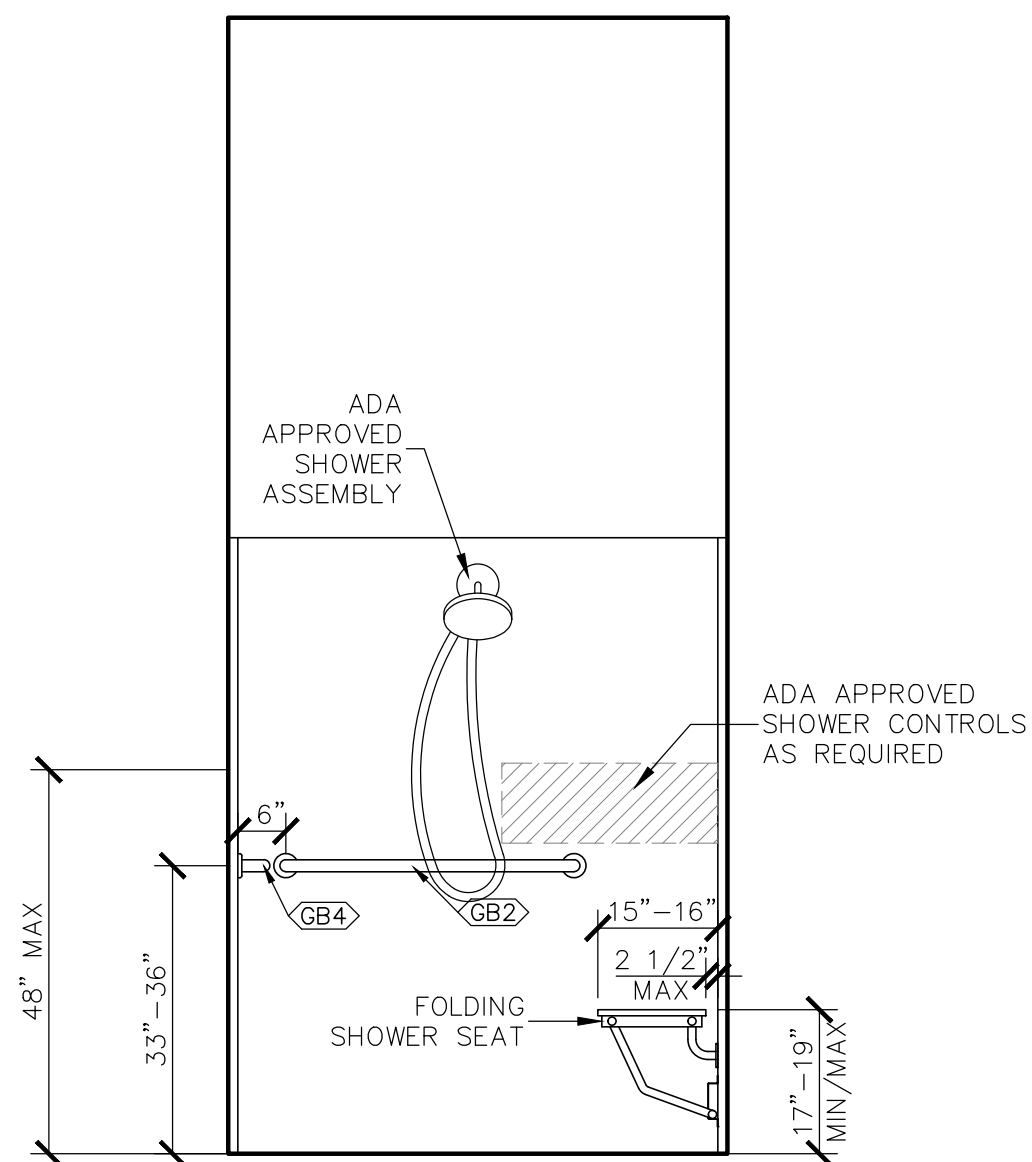
1 **WOMEN RESTROOM - 107**
SCALE: 1/2" = 1'-0



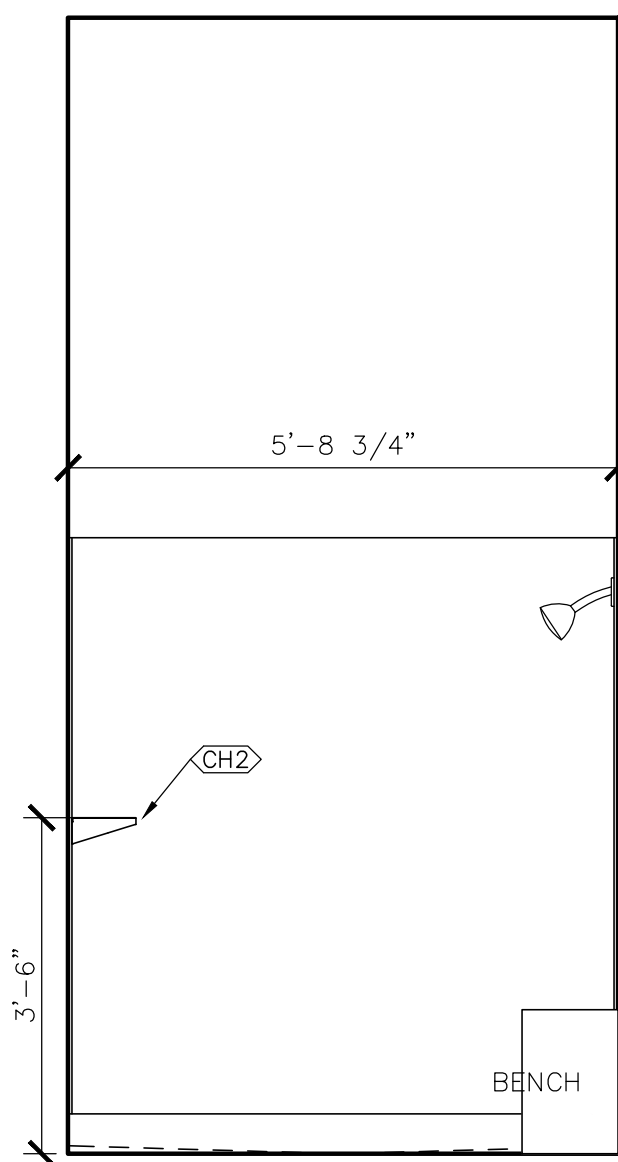
2 **WOMEN/MEN RESTROOM - 107 & 108 SIM.**
SCALE: 1/2" = 1'-0



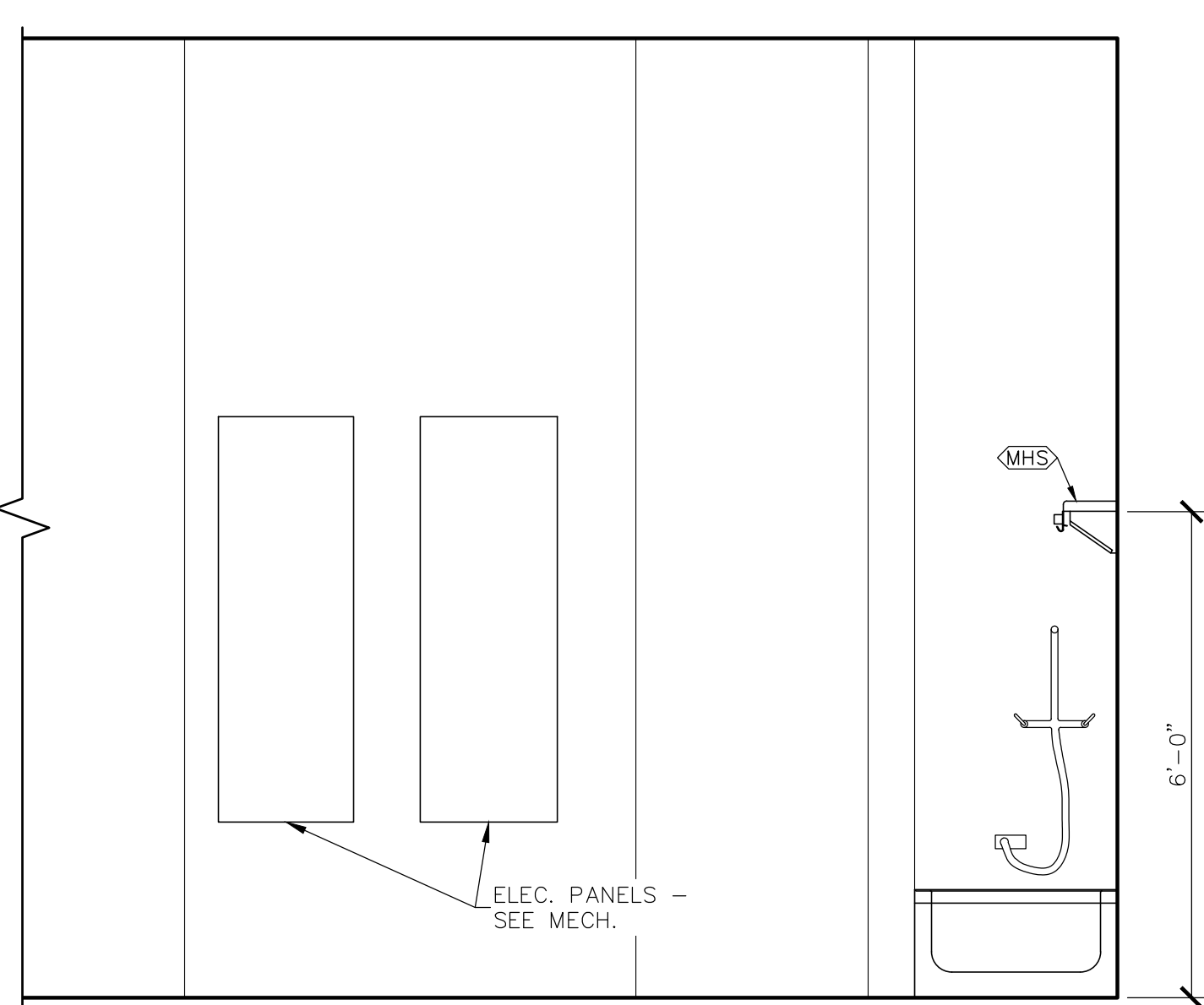
3 **MEN RESTROOM - 108**
SCALE: 1/2" = 1'-0



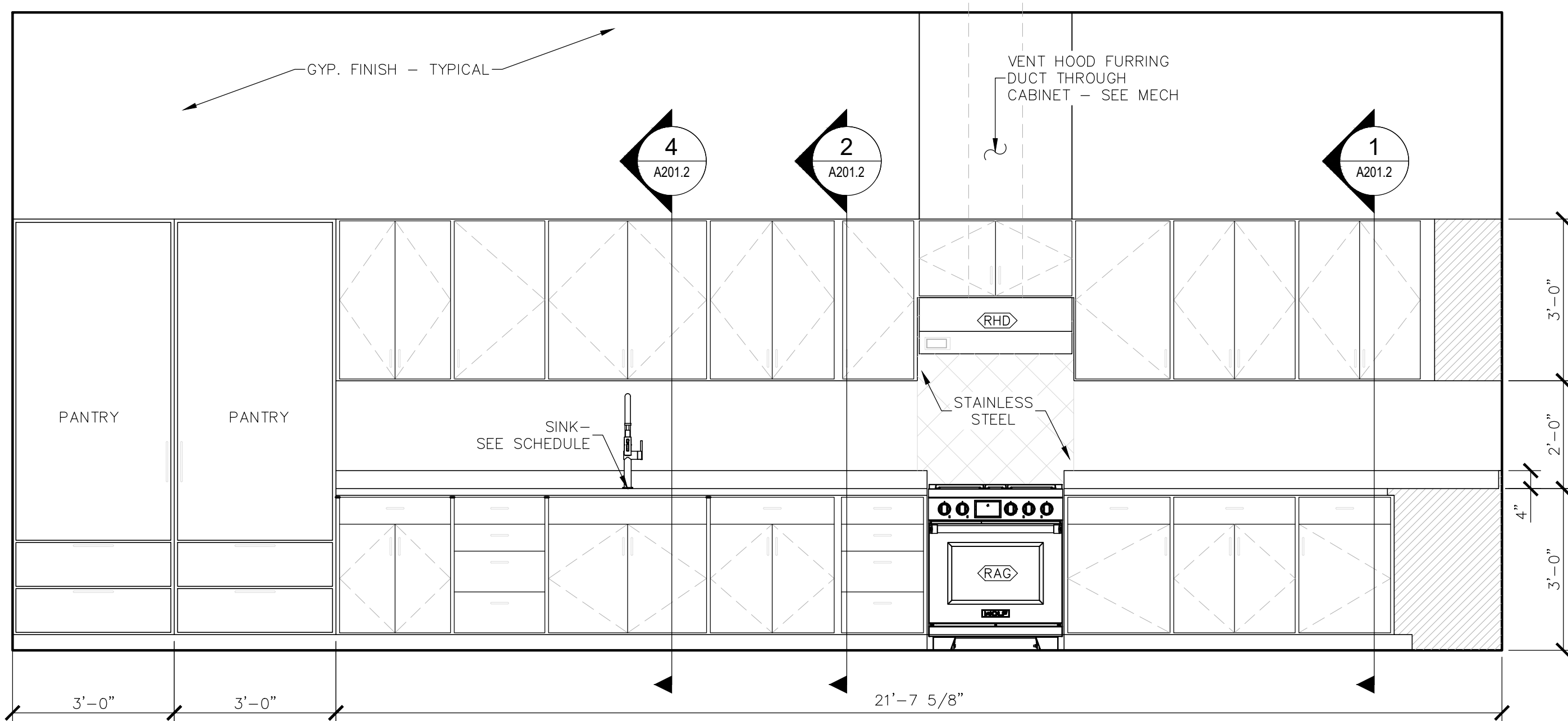
4 **ROLL-IN SHOWER - 107 & 108 SIM.**
SCALE: 1/2" = 1'-0



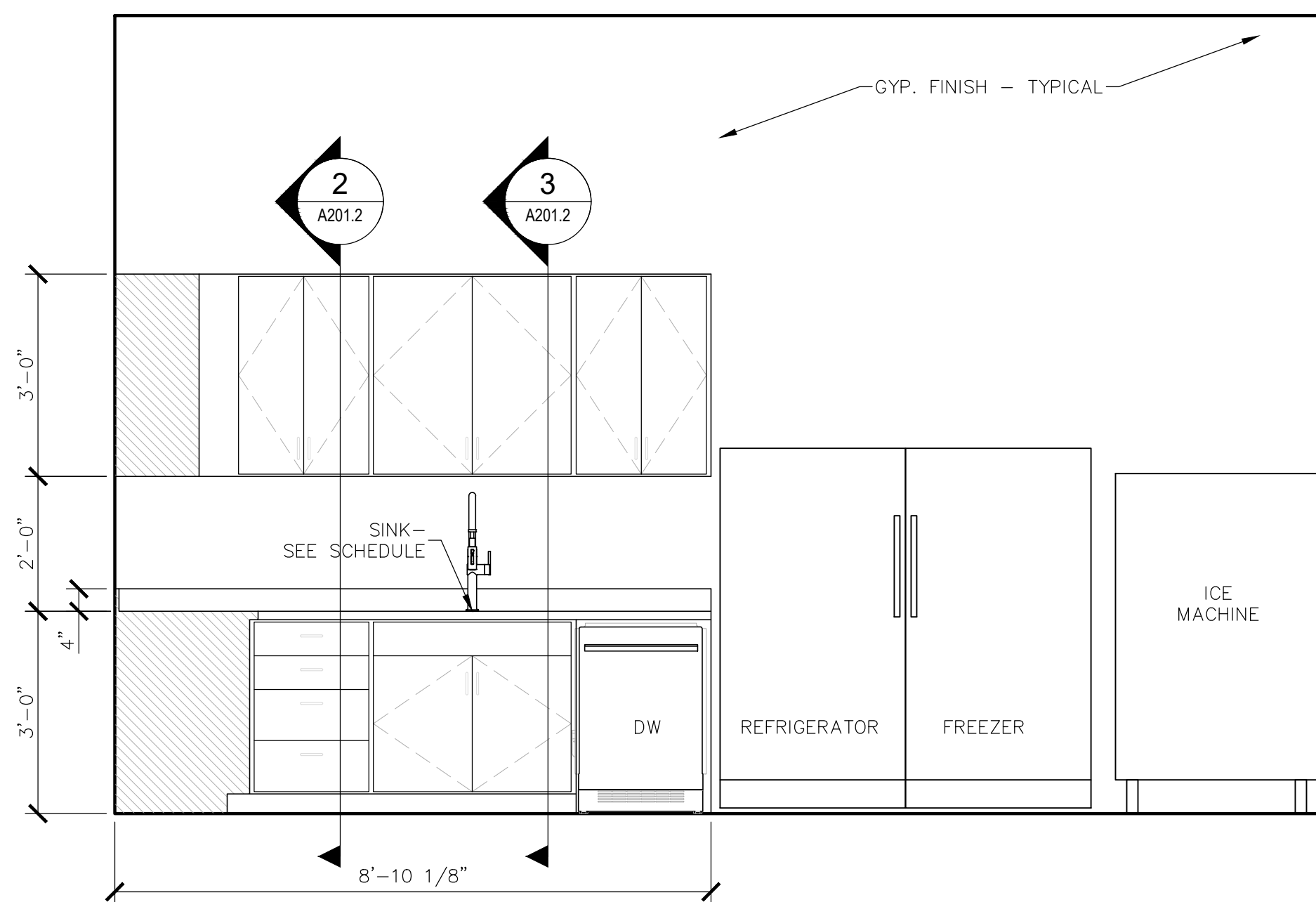
5 **SHOWER - 107 & 108 SIM.**
SCALE: 1/2" = 1'-0



6 **JANITOR - 105**
SCALE: 1/2" = 1'-0



7 **SHELTER PREP - 104**
SCALE: 1/2" = 1'-0



8 **SHELTER PREP - 104**
SCALE: 1/2" = 1'-0

TOILET ACCESSORIES:	
SYMBOL	ITEM DESCRIPTION
TTD	TOILET TISSUE DISPENSER
PTD	WALL MTD. PAPER TOWEL DISPENSER
GB1	42" GRAB BAR
GB2	36" GRAB BAR
GB3	18" GRAB BAR
GB4	24" GRAB BAR
SD	SOAP DISPENSER
MIR	MIRROR ADA (24X36)
SND	SANITARY NAPKIN DISPOSAL
MHS	MOP HANGERS w/ SHELF
CH1	COAT HOOK
CH2	COAT HOOK/SHELF
CH3	COAT HOOK

THE CITY OF FOLEY

1ST RESPONDERS HURRICANE SHELTER

NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027

SHEET NO:
INTERIOR
ELEVATIONS

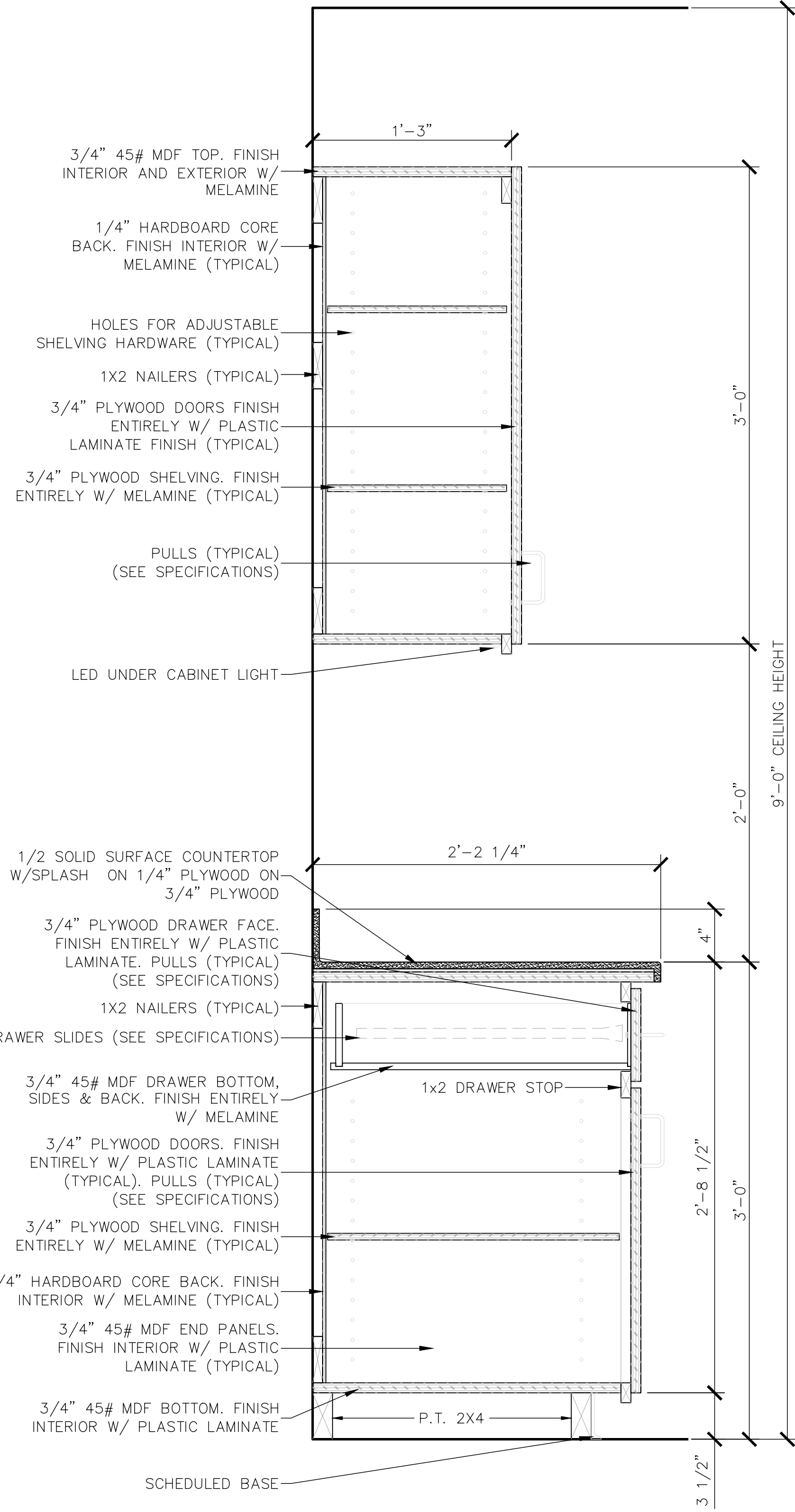
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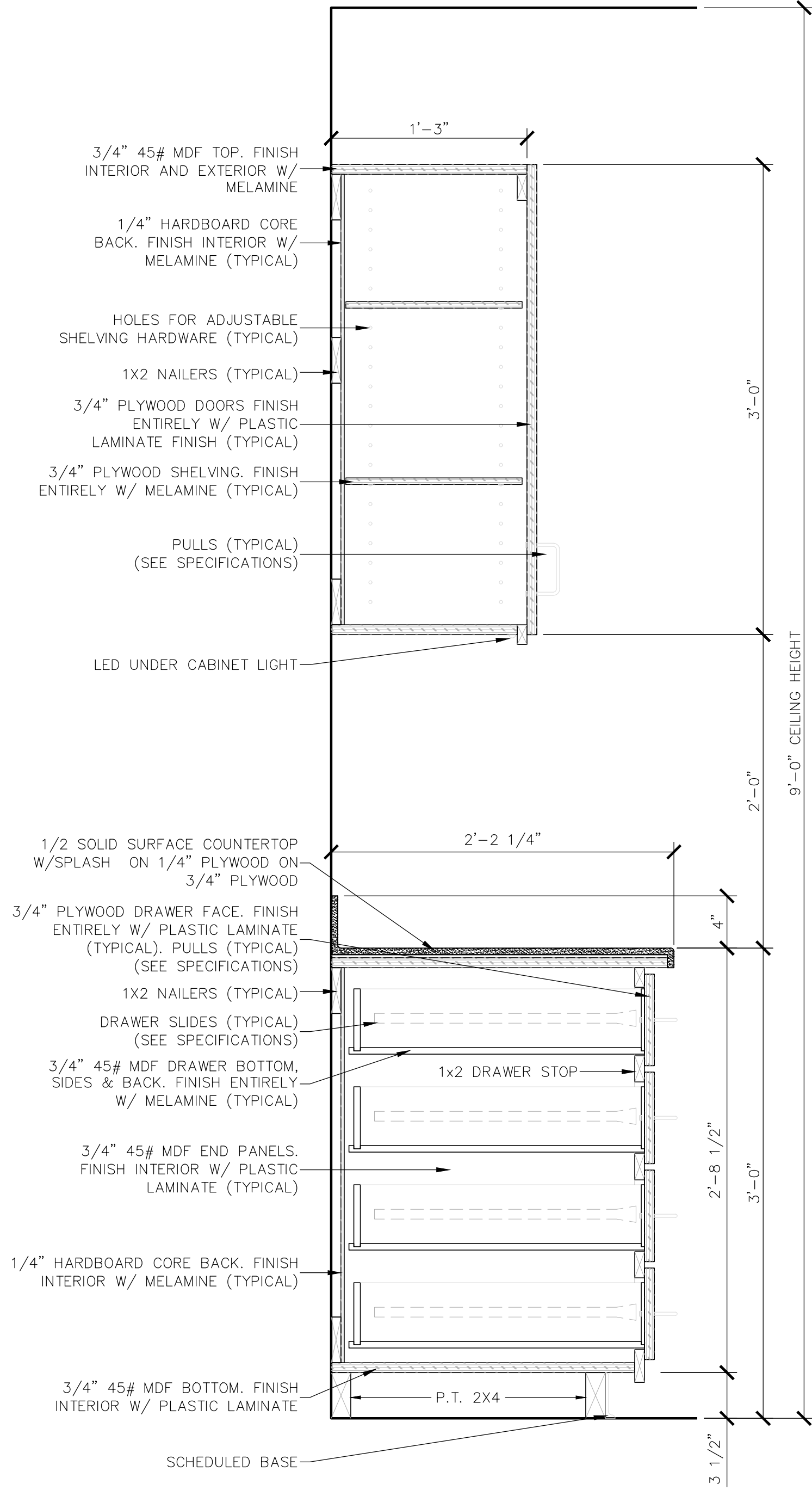
ISSUE	DATE	DESCRIPTION
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Office: 251.947.3864

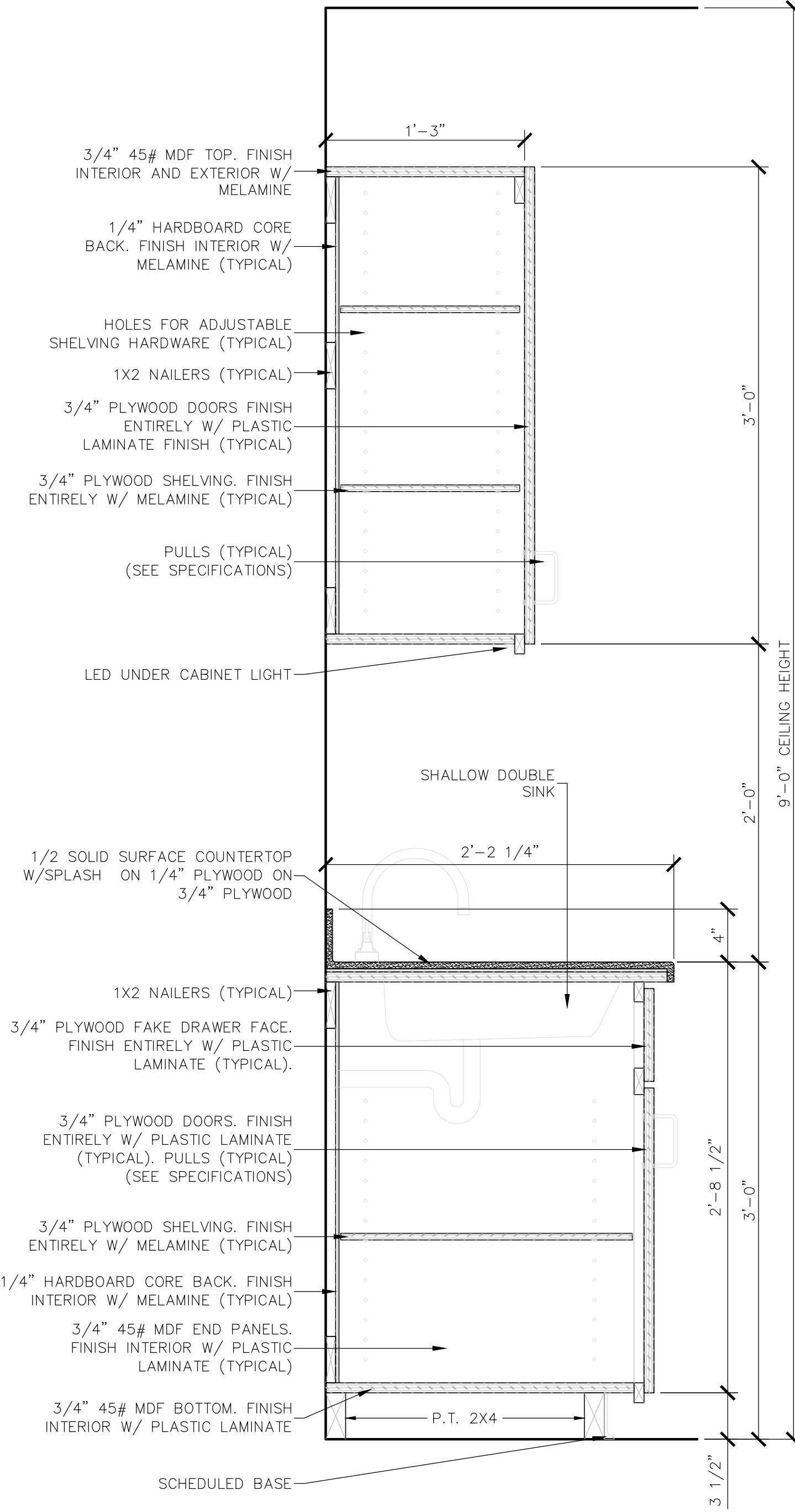
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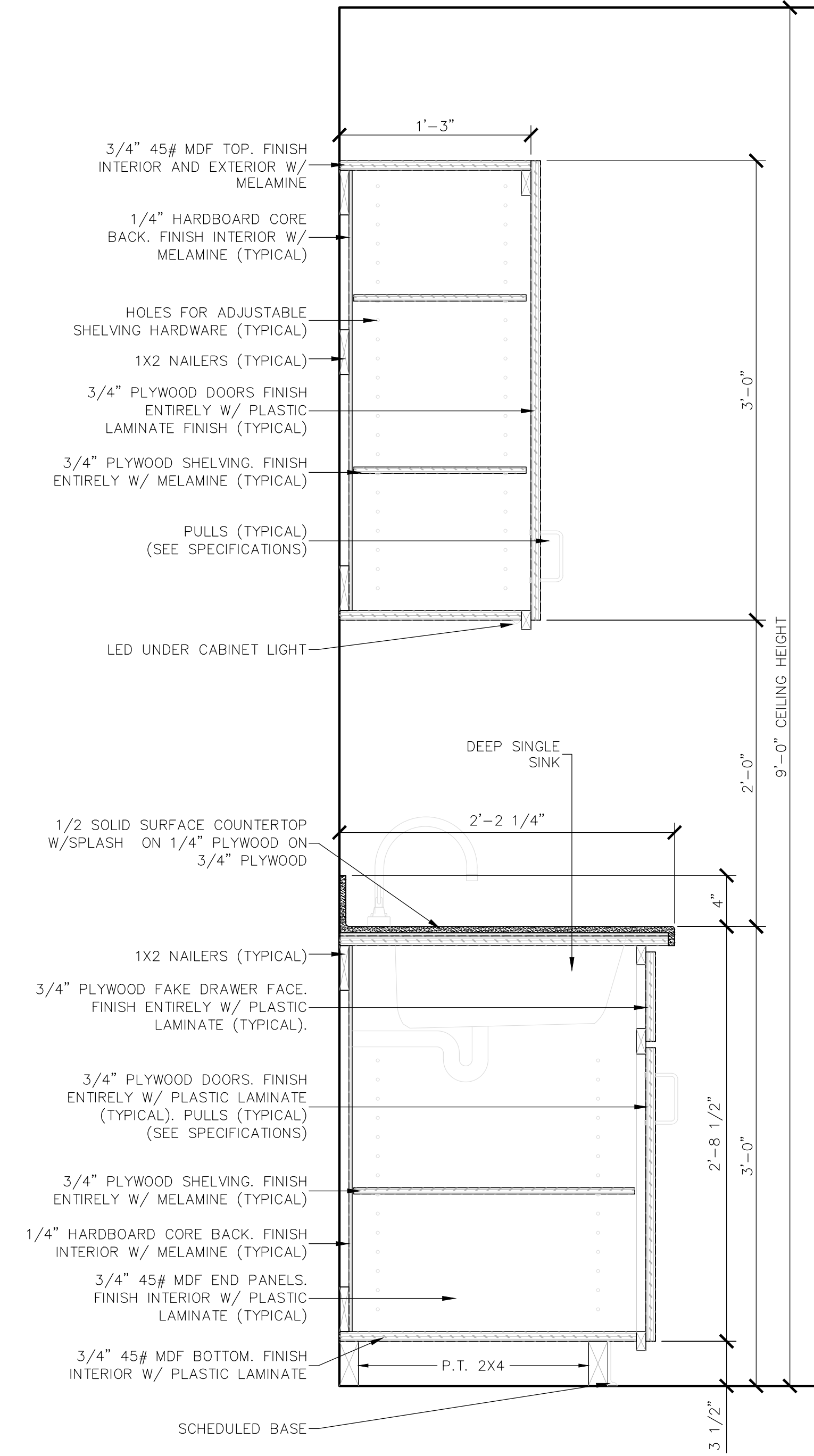
1 **MILLWORK DETAIL**
SCALE: 1 1/2" = 1'-0



2 **MILLWORK DETAIL**
SCALE: 1 1/2" = 1'-0



3 **MILLWORK DETAIL**
SCALE: 1 1/2" = 1'-0



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

THE CITY OF FOLEY

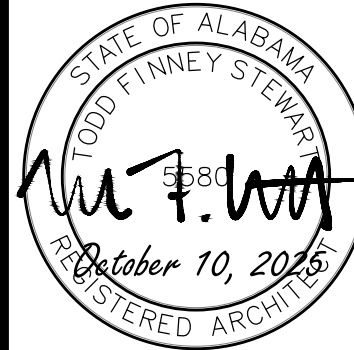
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027

SHEET NO:

MILLWORK DETAILS

A201.2

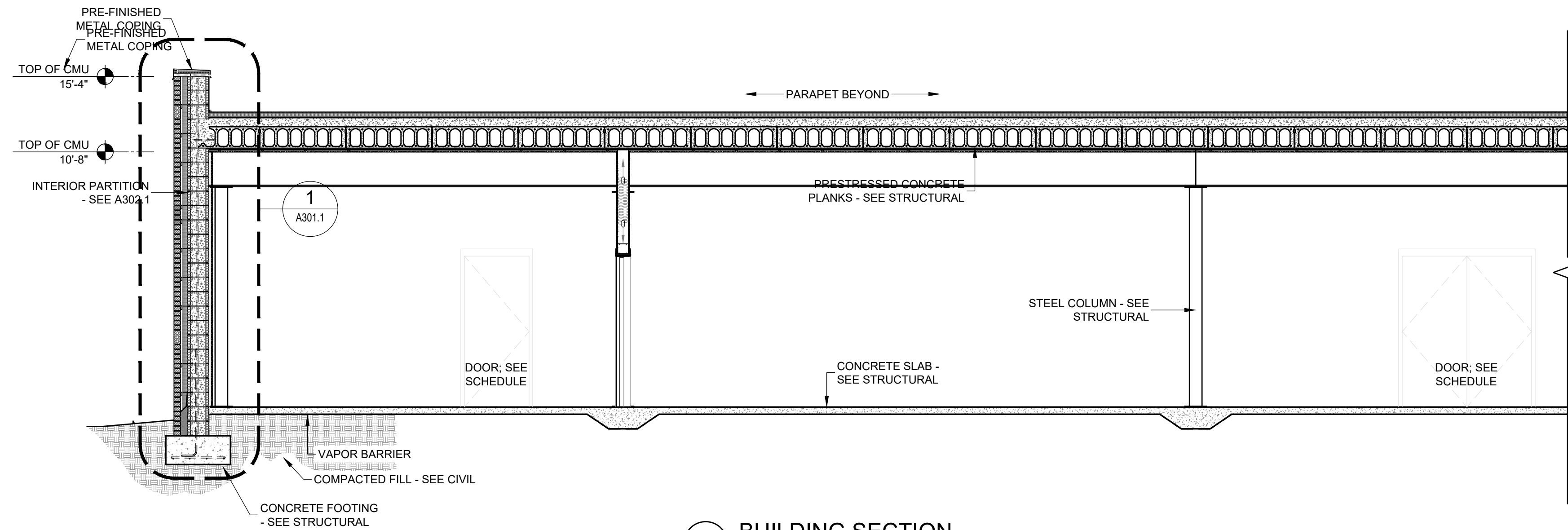


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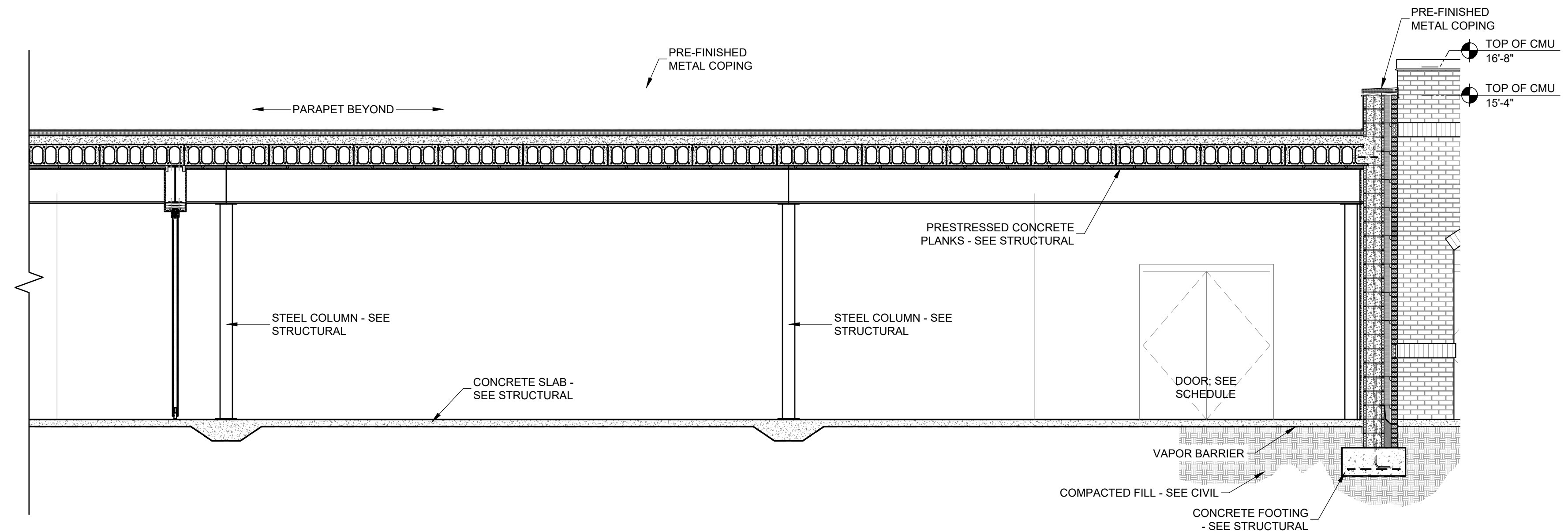


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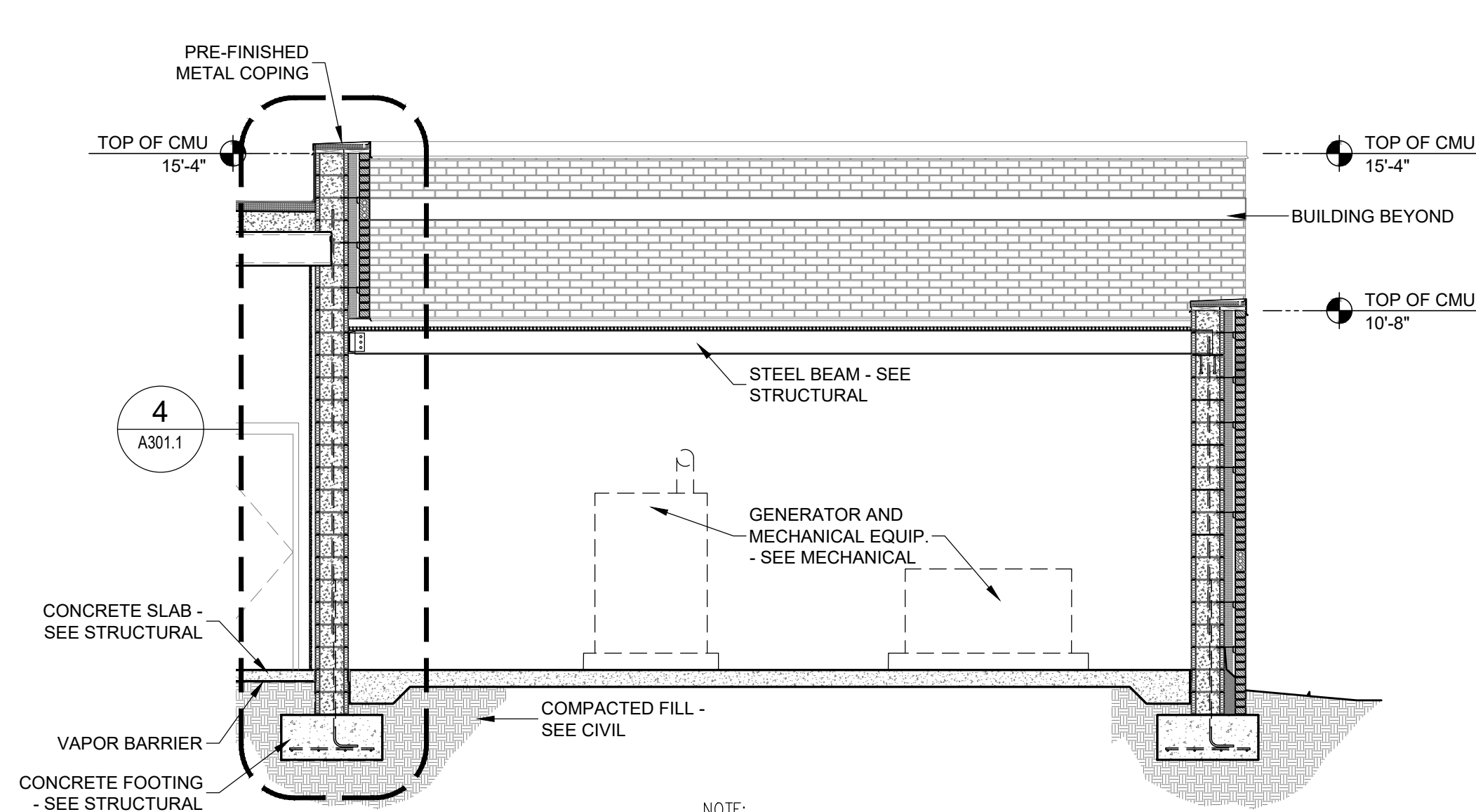
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3b BUILDING SECTION
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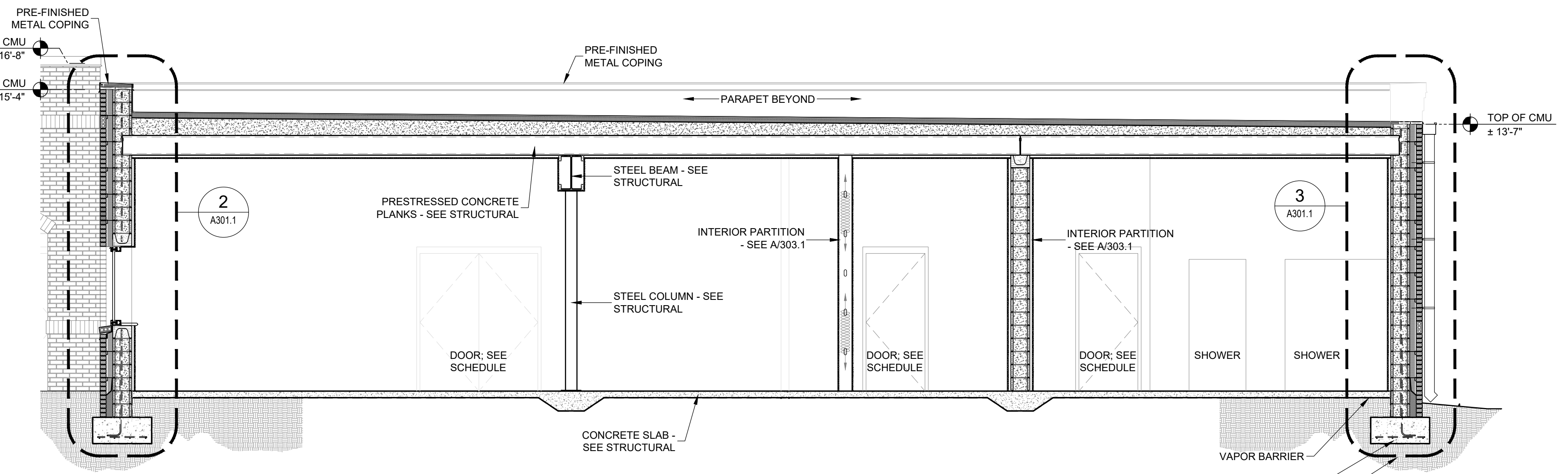


3a BUILDING SECTION
SCALE: 1/4" = 1'-0"



2 BUILDING SECTION - MECHANICAL YARD
SCALE: 1/4" = 1'-0"

NOTE:
ALL EQUIPMENT SHALL BE PLACED ON A "HOUSEKEEPING PAD"

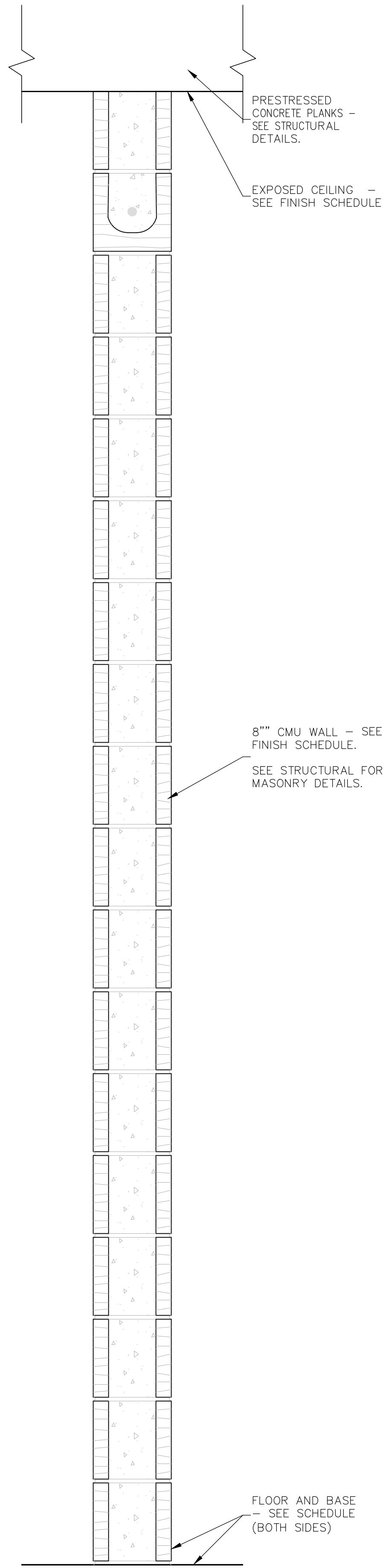


1 BUILDING SECTION
SCALE: 1/4" = 1'-0"

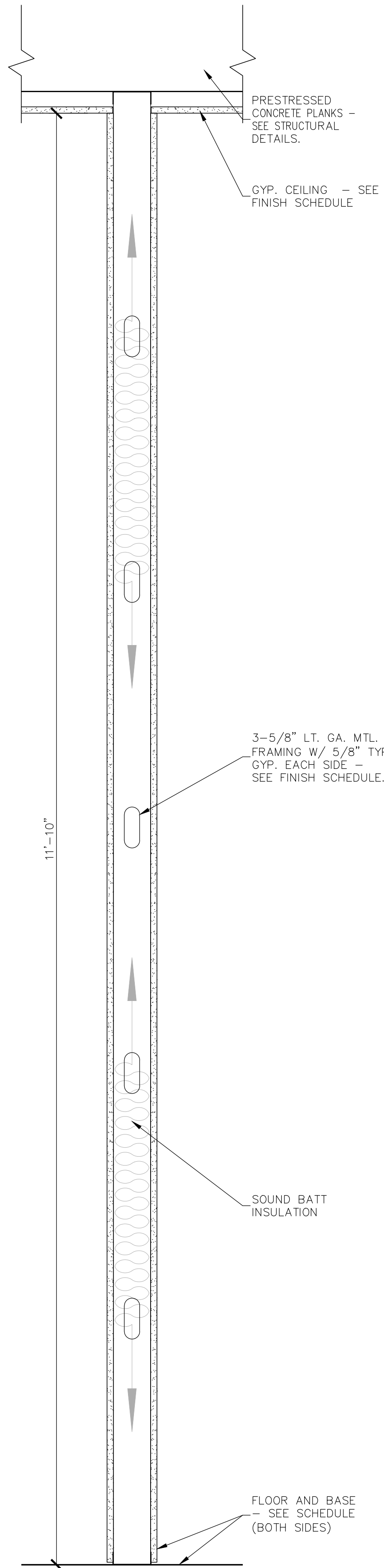
ISSUE	DATE	DESCRIPTION
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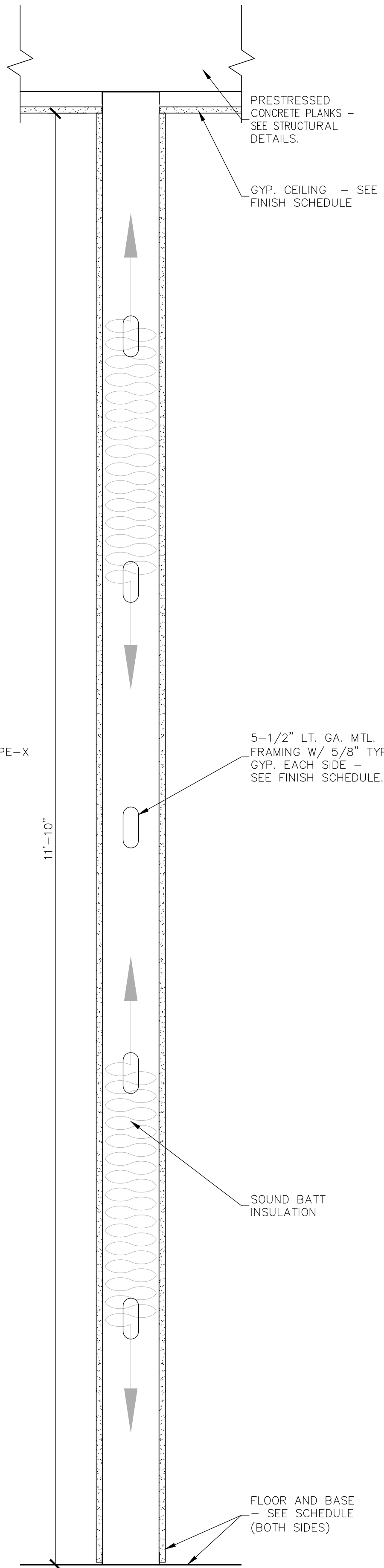
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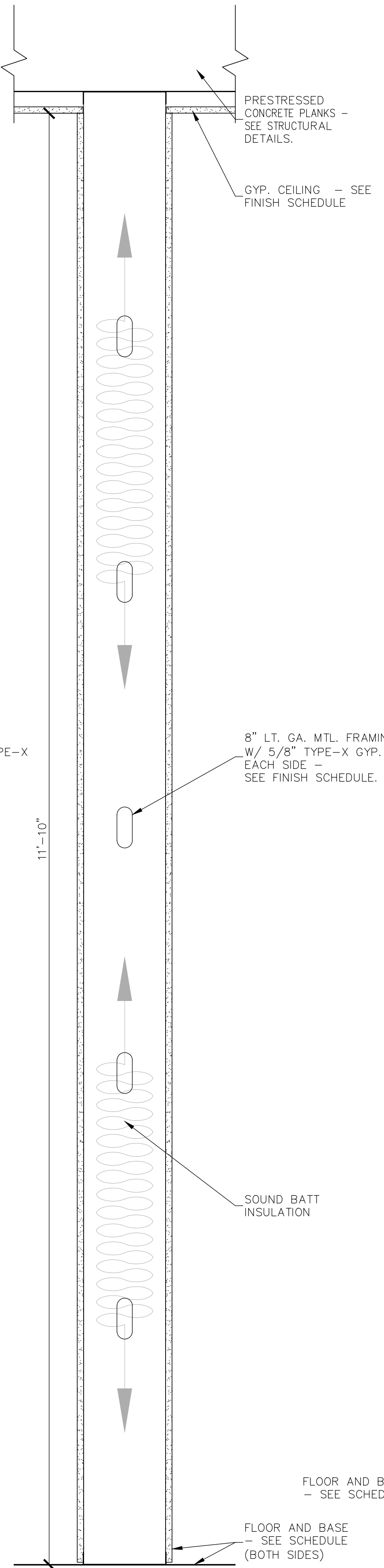
P6 PARTITION TYPE
SCALE: 1 1/2" = 1'-0"



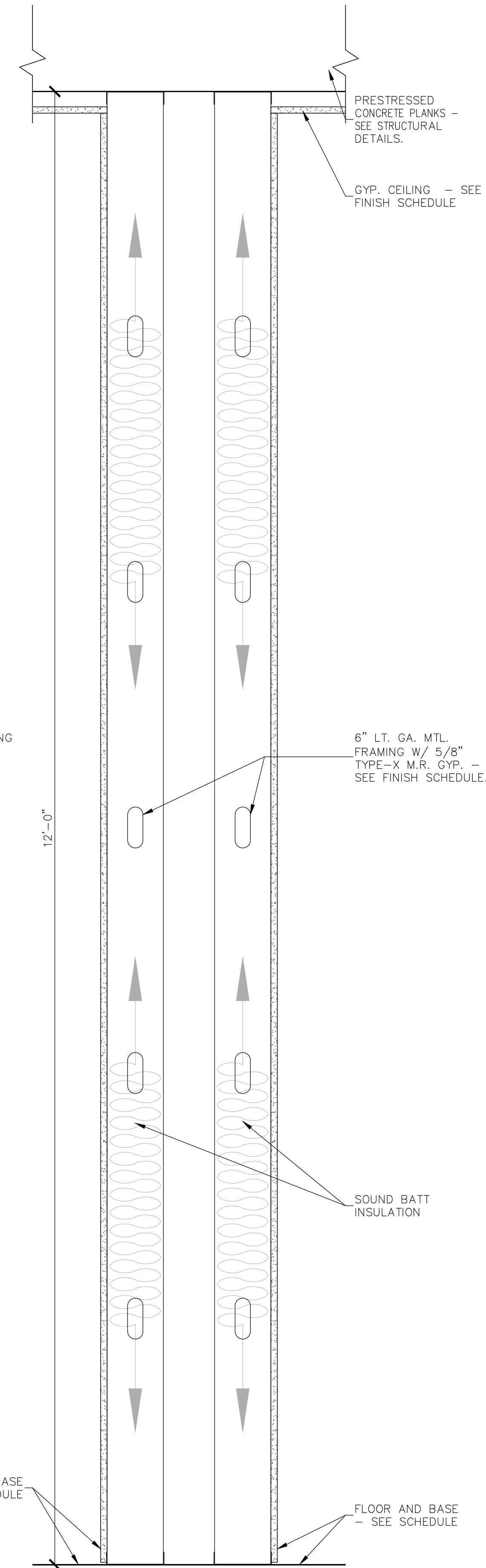
P5 PARTITION TYPE
SCALE: 1 1/2" = 1'-0"



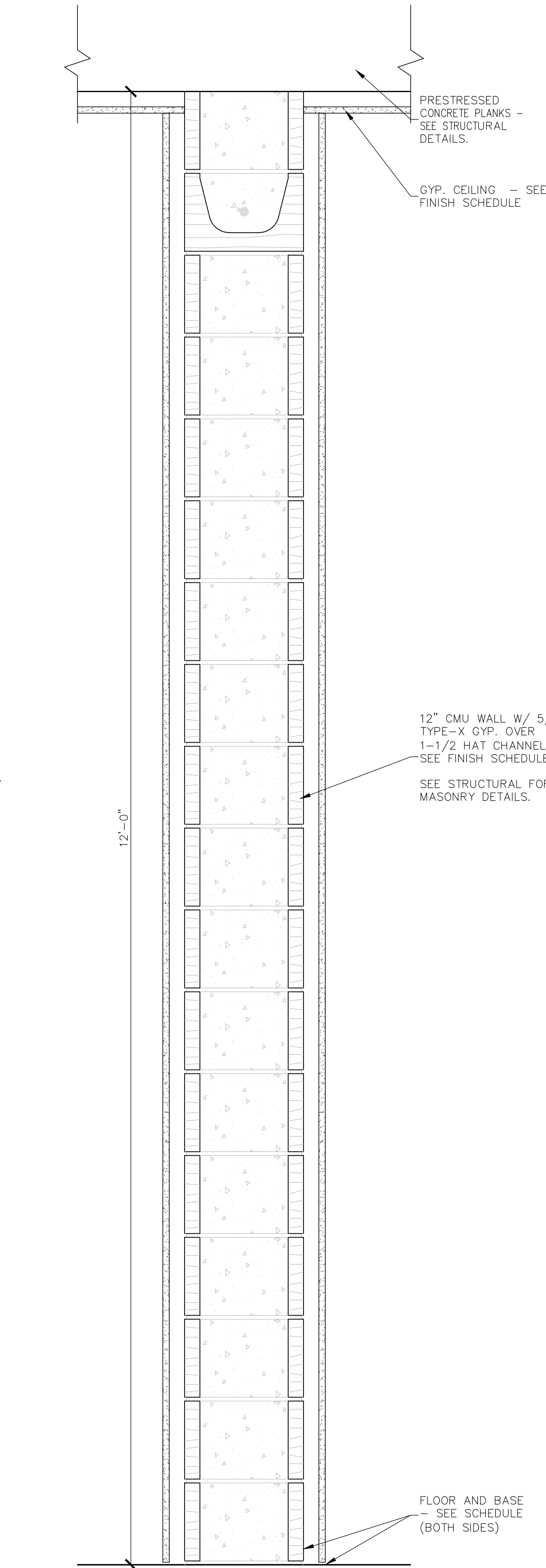
P4 PARTITION TYPE
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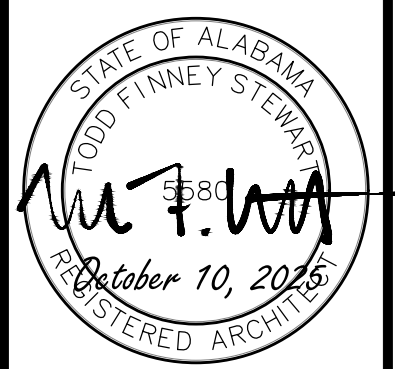
P3 PARTITION TYPE
SCALE: 1 1/2" = 1'-0"



P2 PARTITION TYPE
SCALE: 1 1/2" = 1'-0"



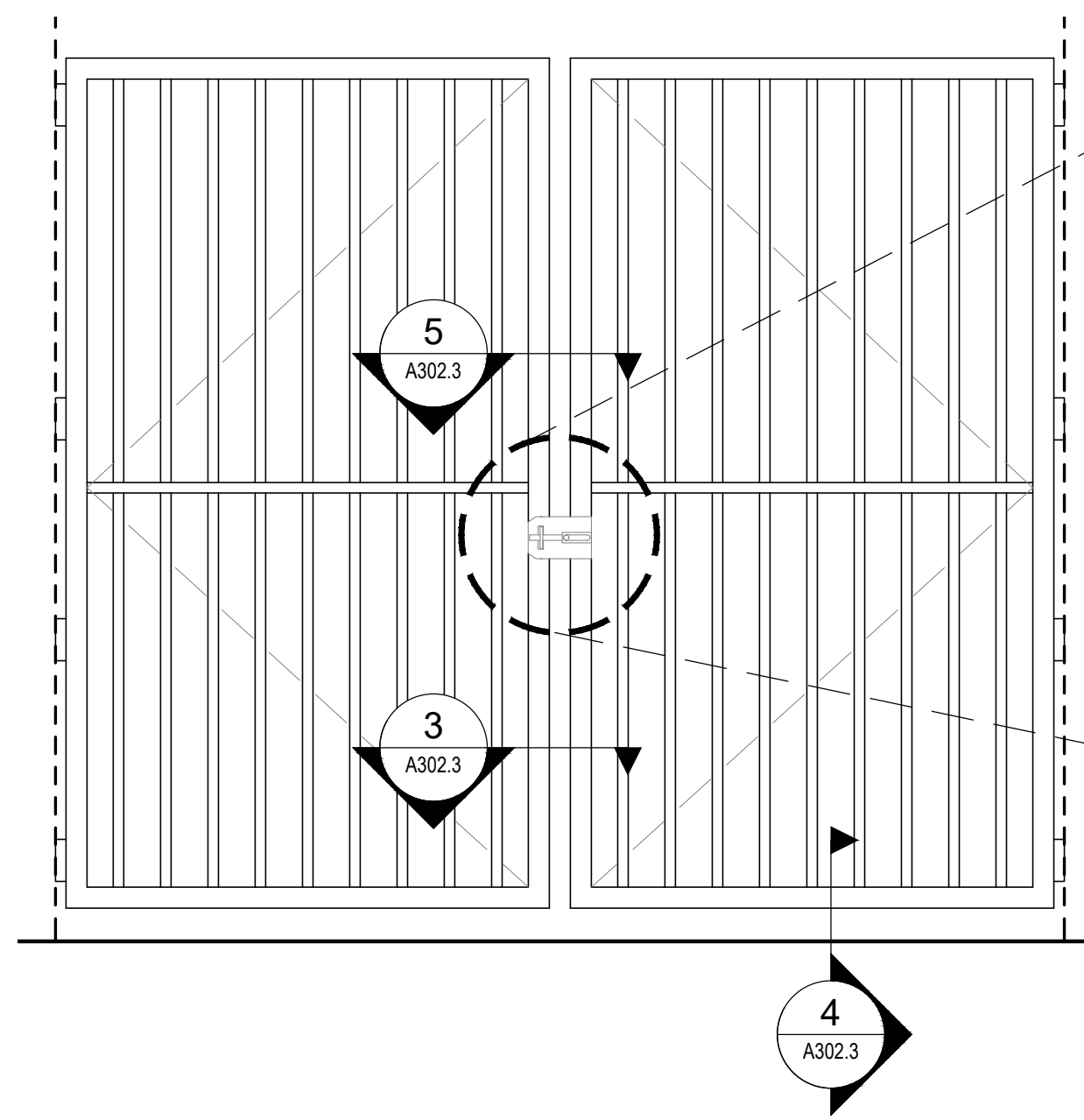
P1 PARTITION TYPE
SCALE: 1 1/2" = 1'-0"



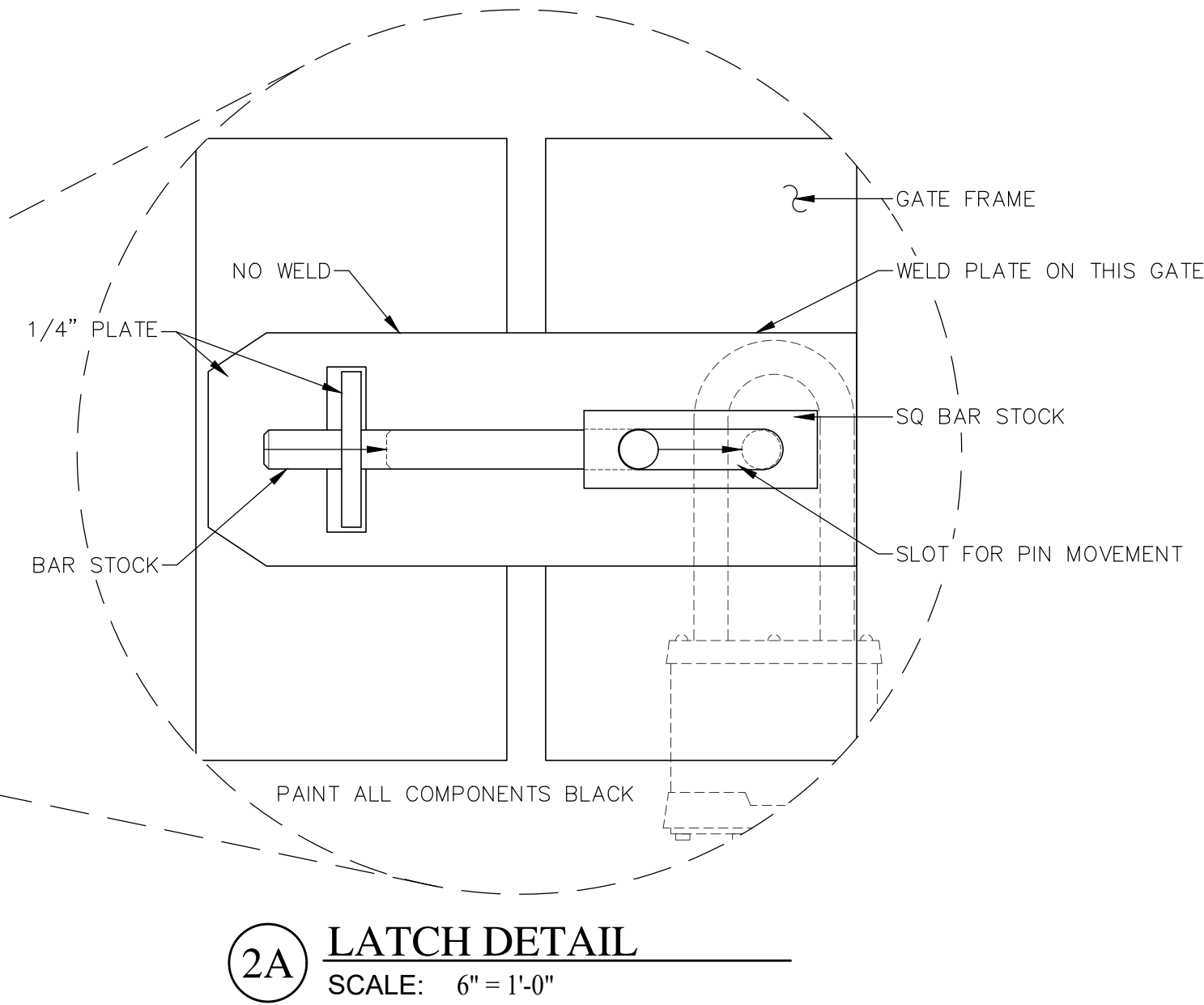
ISSUE	DATE	DESCRIPTION
1.	10.10.25	BID DOCUMENTS

THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

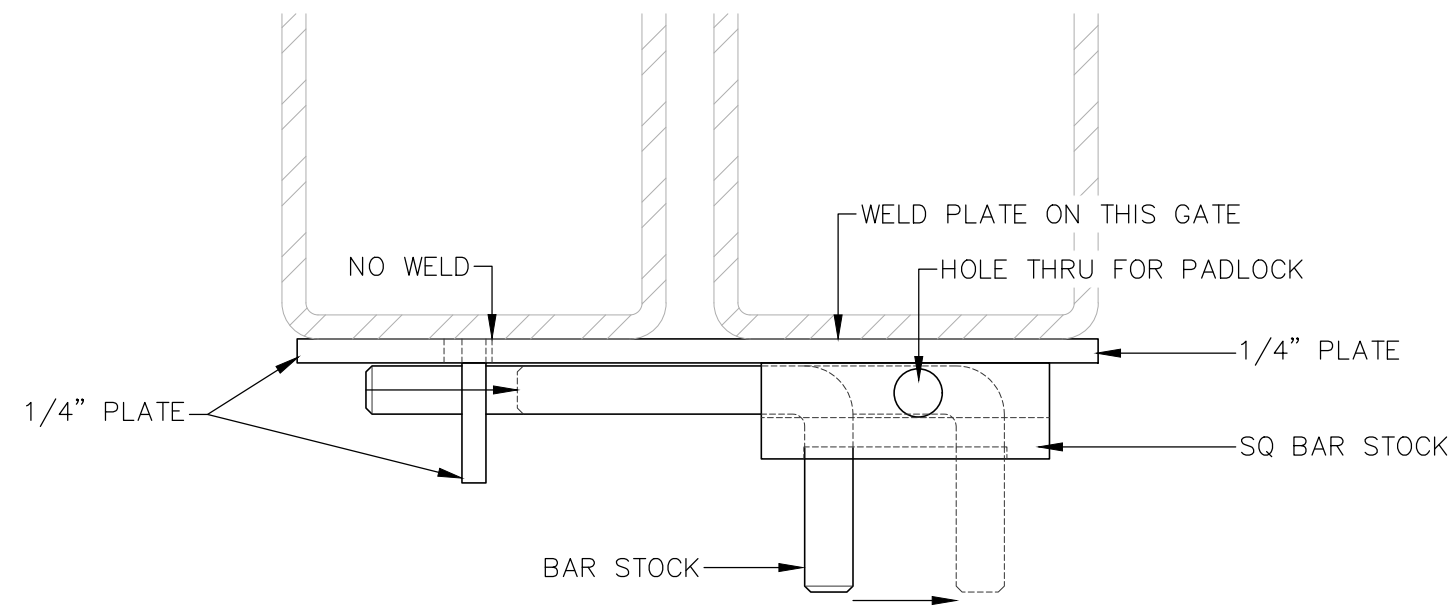
- z:\jobs 2024\24-027 city of foley first responder hurricane safe room\01 working drawings\03 construction documents\24-027_A302.2 Gate Detail.dwg



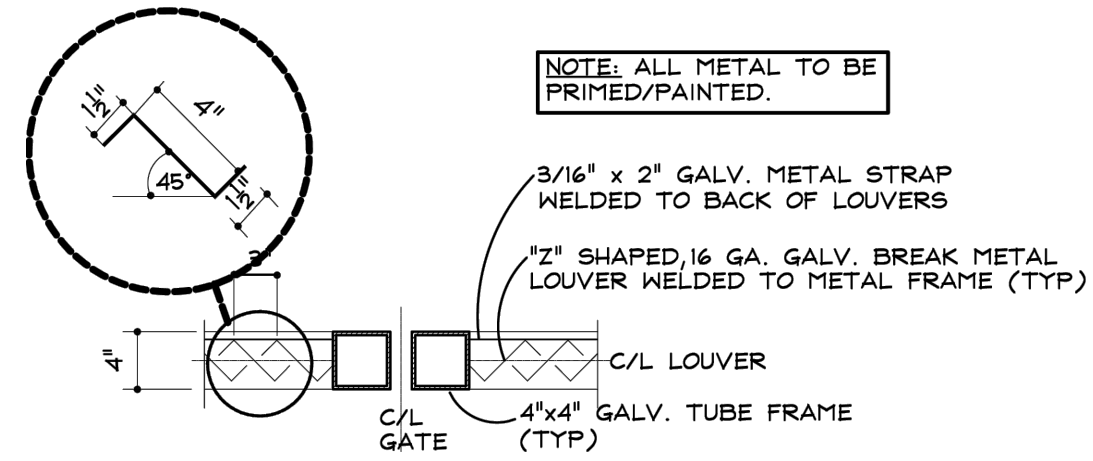
1 MECHANICAL ENCLOSURE GATE DETAIL
SCALE: 3/4" = 1'-0"



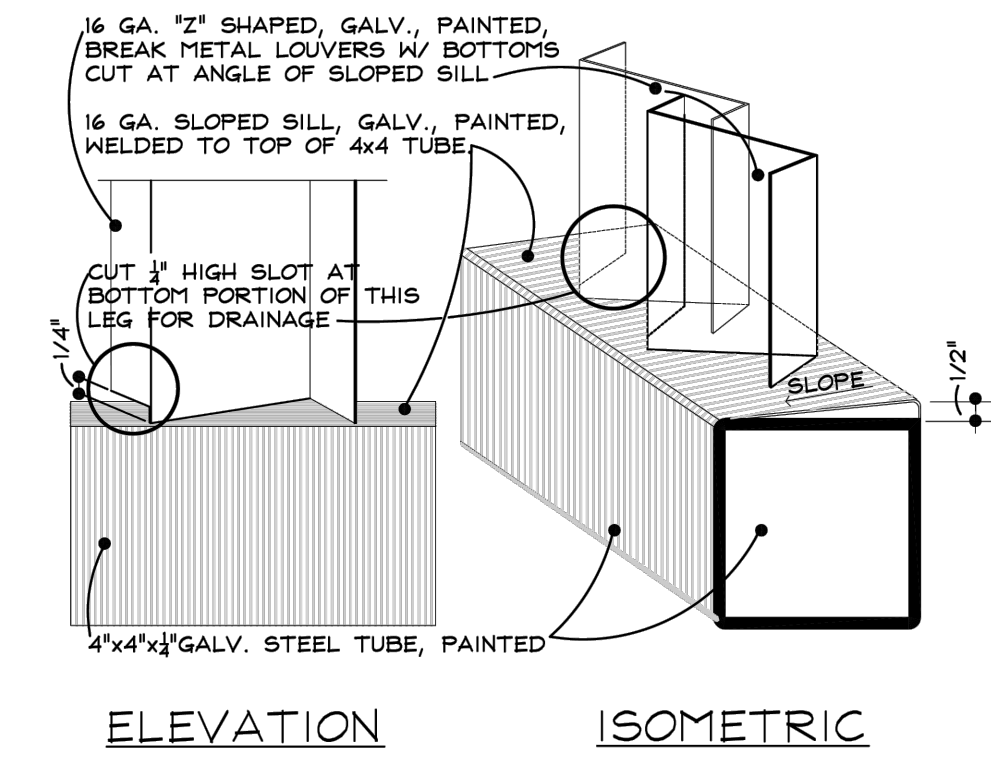
2A LATCH DETAIL
SCALE: 6" = 1'-0"



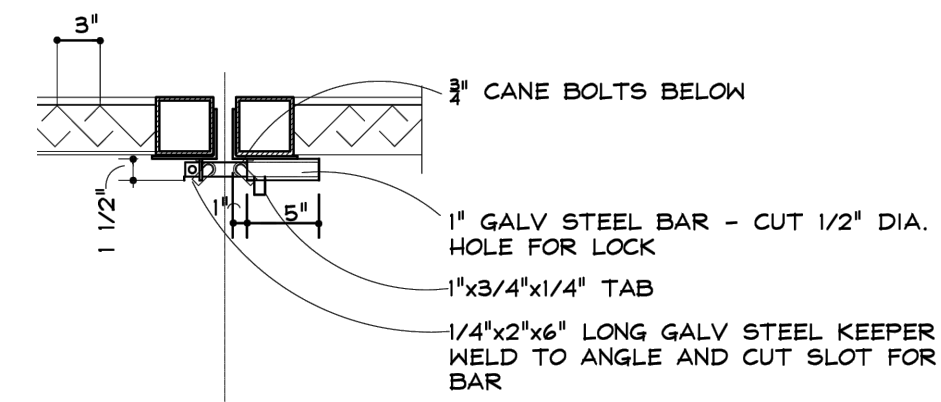
2B LATCH DETAIL
SCALE: 6" = 1'-0"



3 LOUVER PLAN DETAIL
SCALE: NOT TO SCALE

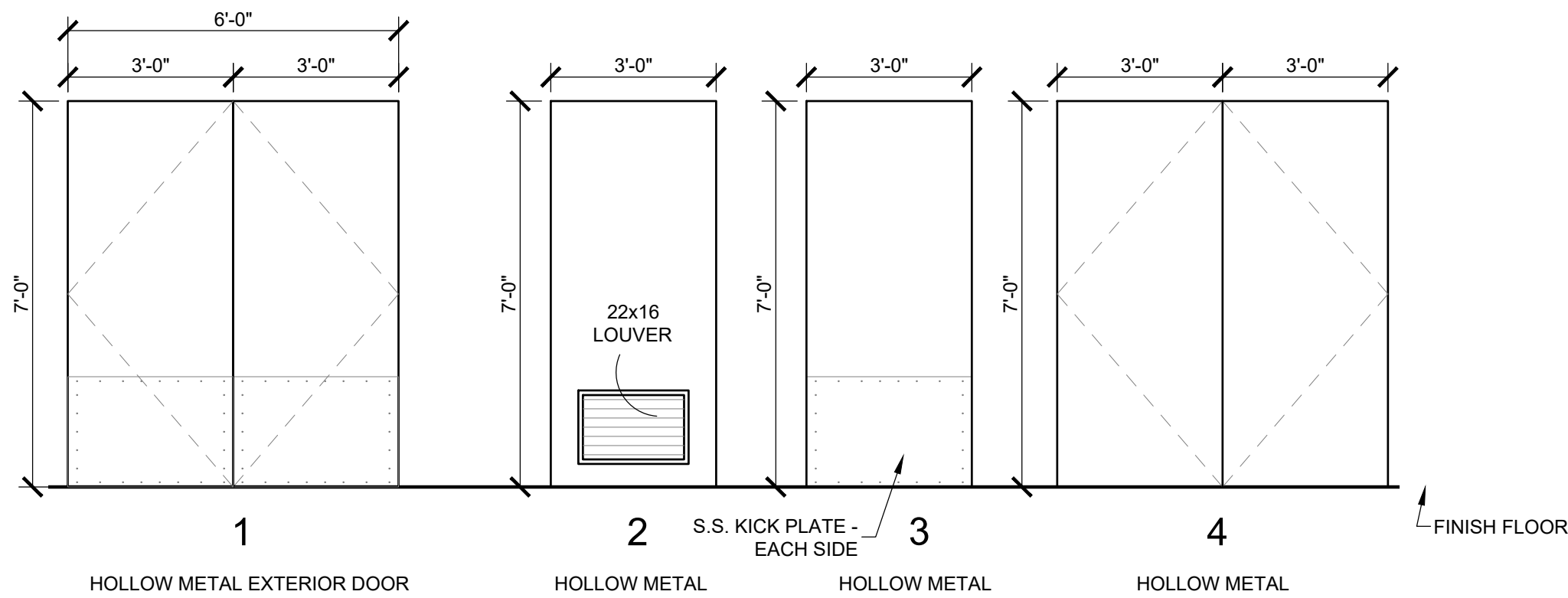


4 LOUVER DETAIL
SCALE: NOT TO SCALE



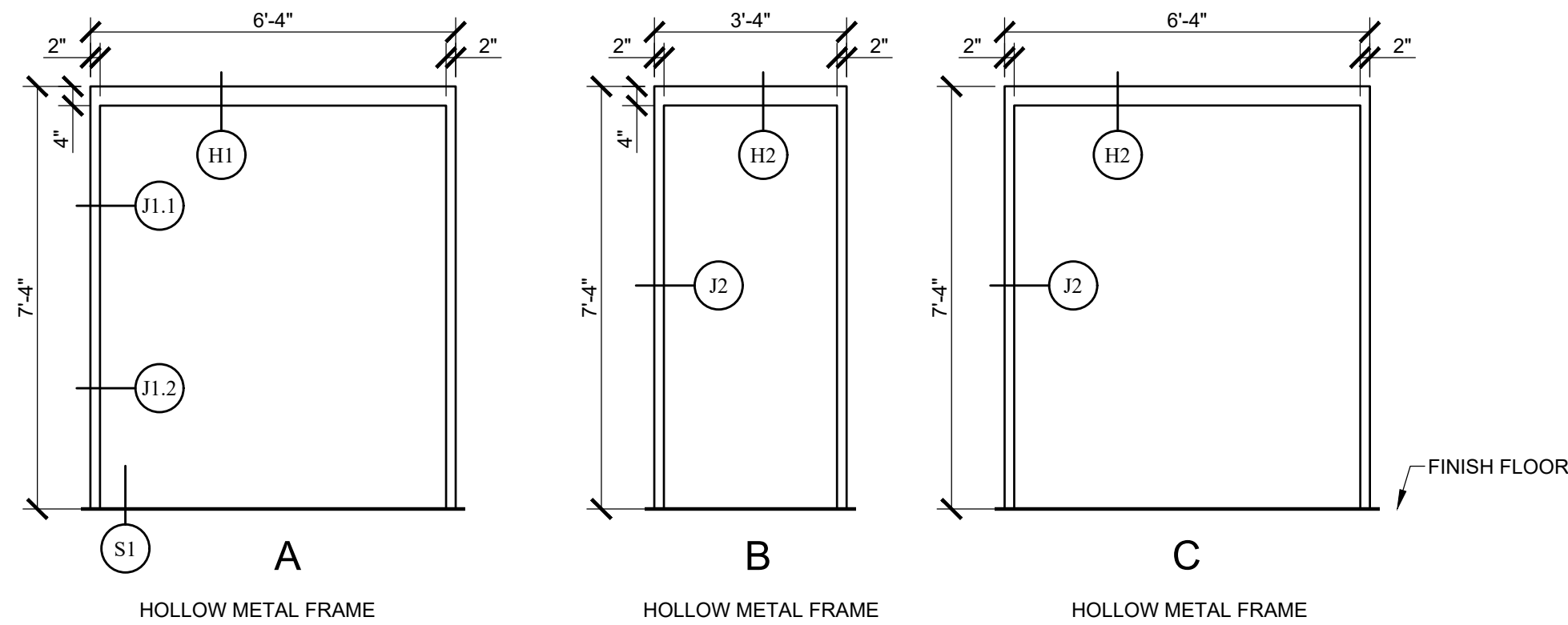
5 LATCH DETAIL
SCALE: NOT TO SCALE

ISSUE	DATE	DESCRIPTION
1.	10.10.25	BID DOCUMENTS

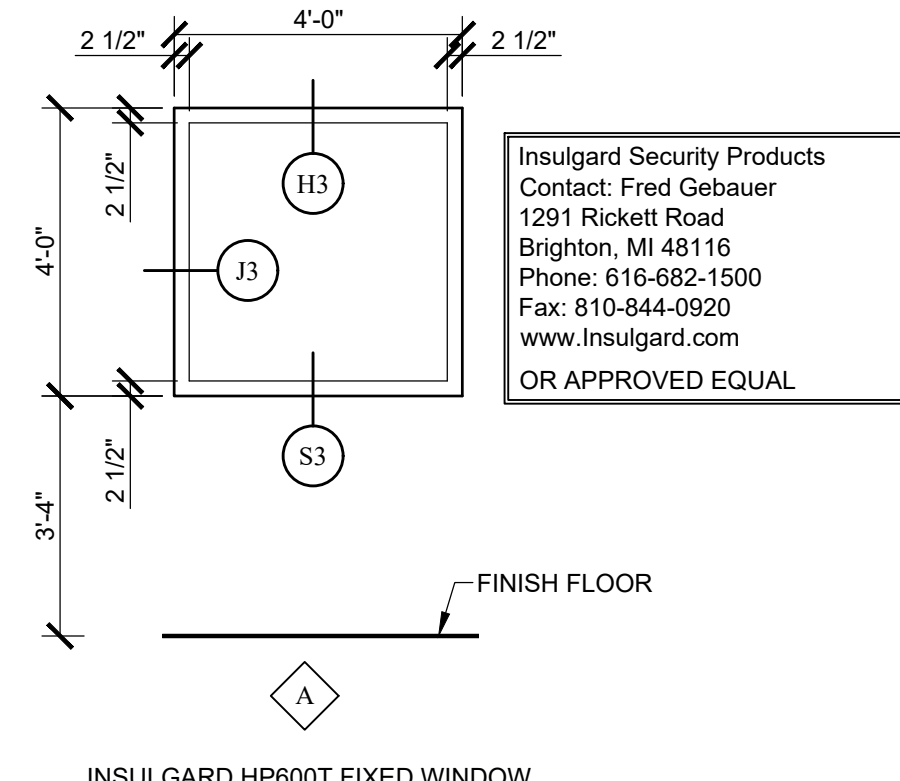


1 DOOR TYPES
SCALE: 3/8" = 1'-0"

NOTE:
SEE SPECIFICATIONS FOR
HARDWARE SCHEDULE
VERIFY ALL PAINT COLORS W/
OWNER

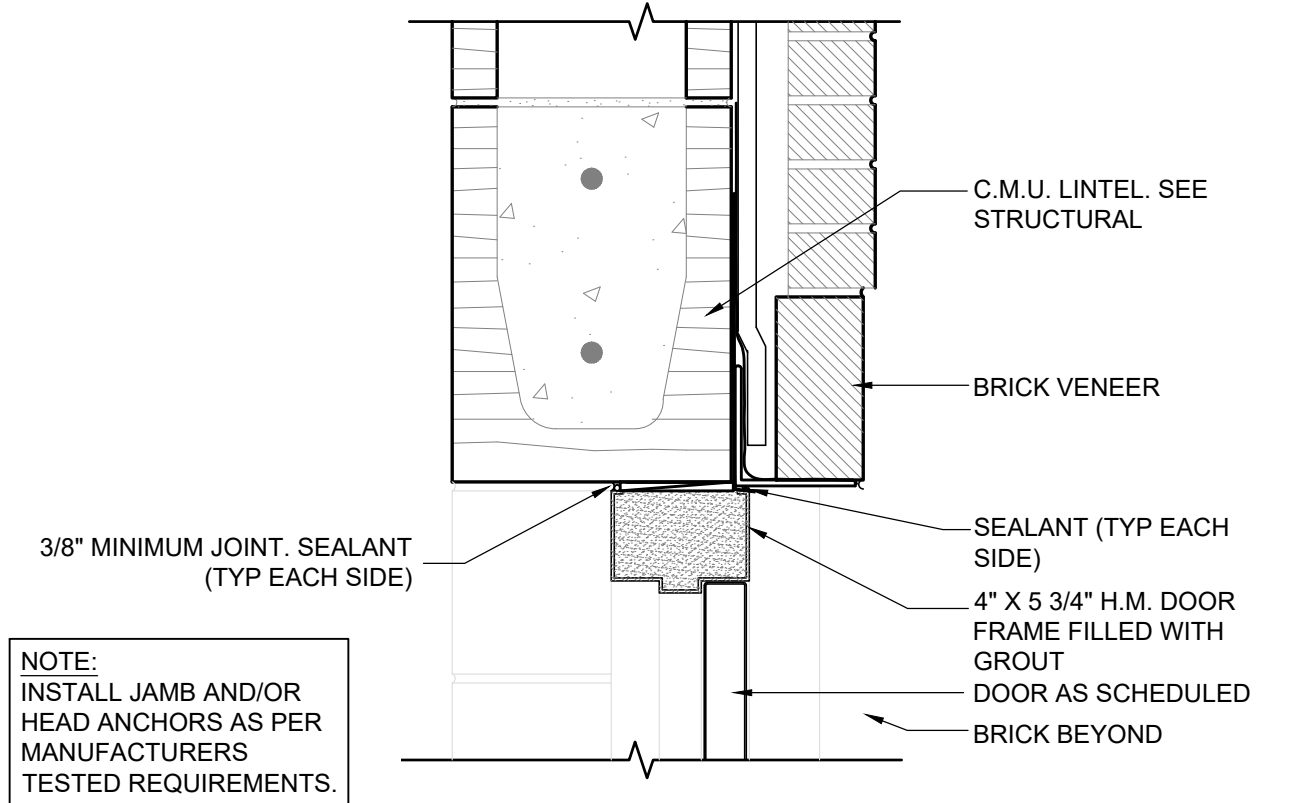


2 DOOR FRAMES
SCALE: 3/8" = 1'-0"

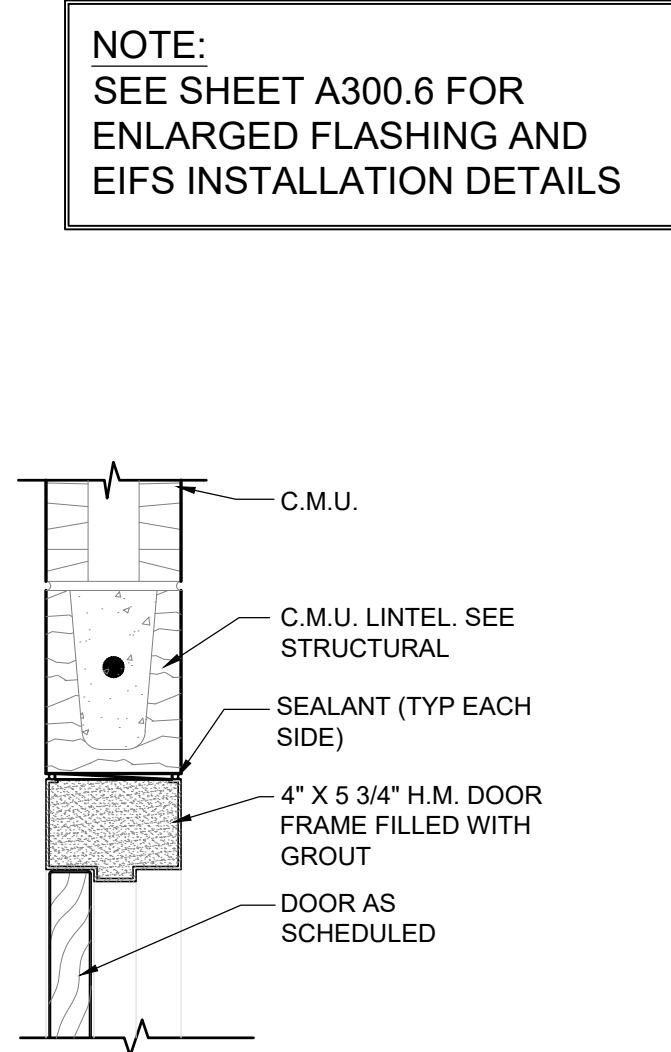


3 WINDOW TYPES
SCALE: 3/8" = 1'-0"

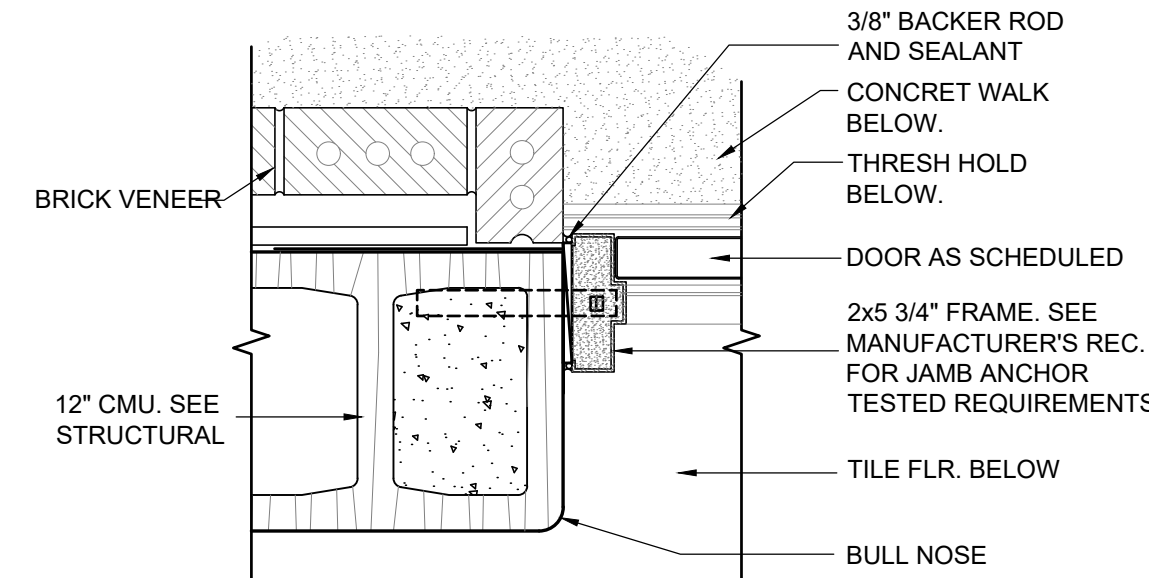
Insulgard Security Products
Contact: Fred Gebauer
1291 Rickett Road
Brighton, MI 48116
Phone: 616-682-1500
Fax: 810-844-0920
www.insulgard.com
OR APPROVED EQUAL



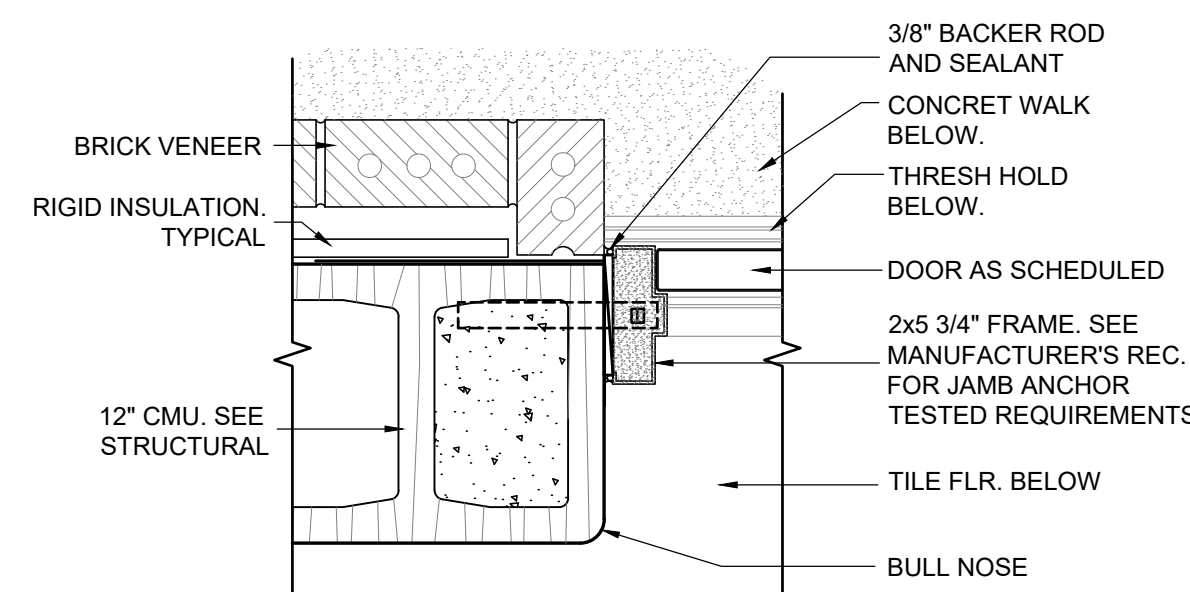
H1 HEAD DETAIL
SCALE: 1-1/12" = 1'-0"



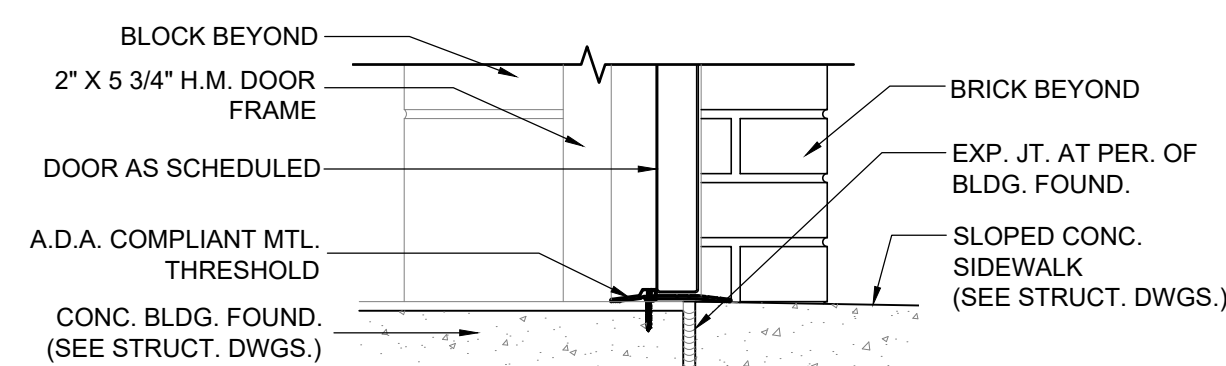
H2 HEAD DETAIL
SCALE: 1-1/12" = 1'-0"



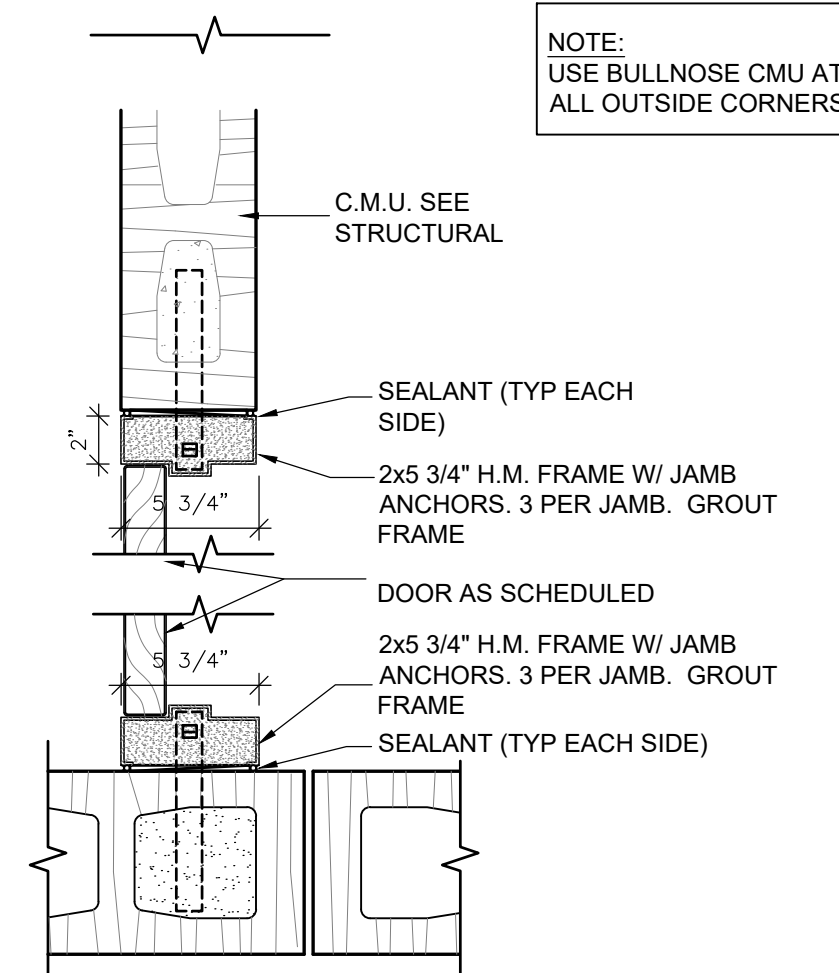
J1.1 JAMB DETAIL
SCALE: 1-1/12" = 1'-0"



J1.2 JAMB DETAIL
SCALE: 1-1/12" = 1'-0"

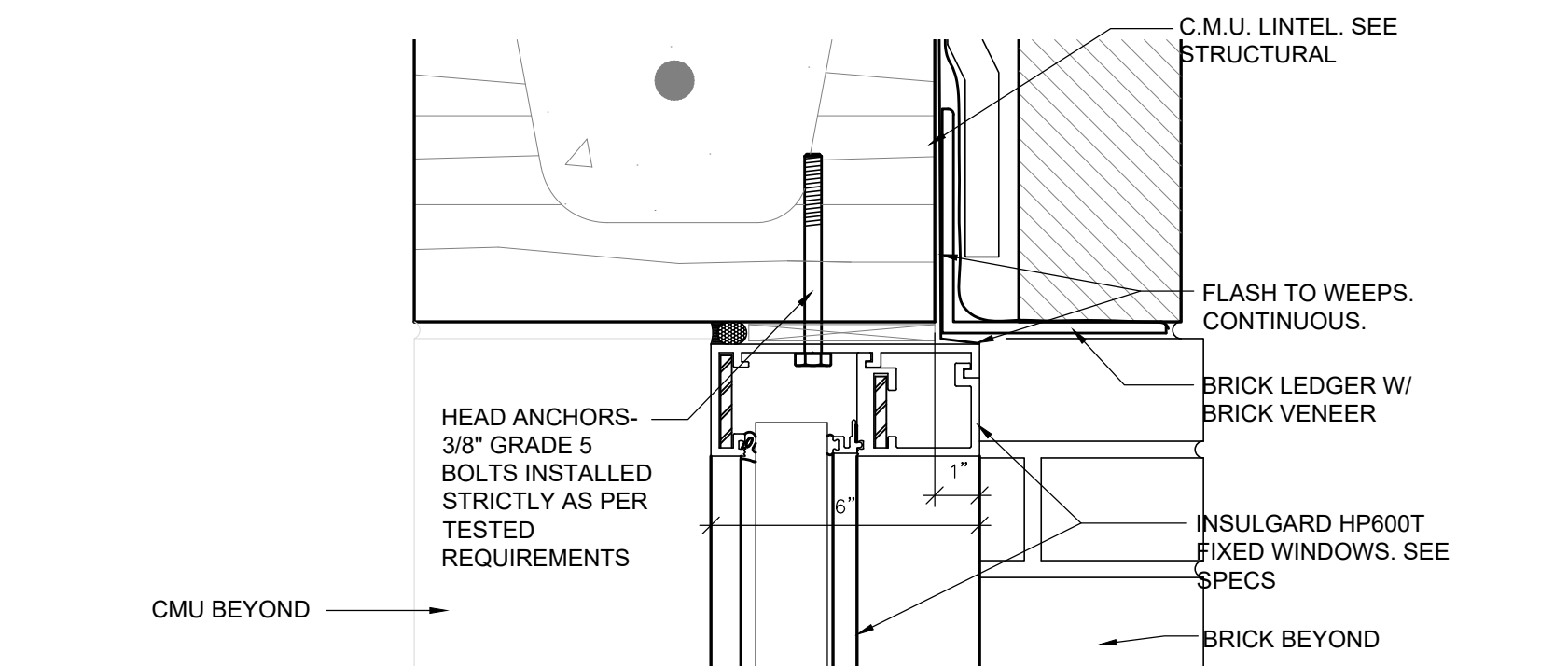


S1 SILL DETAIL
SCALE: 1-1/12" = 1'-0"

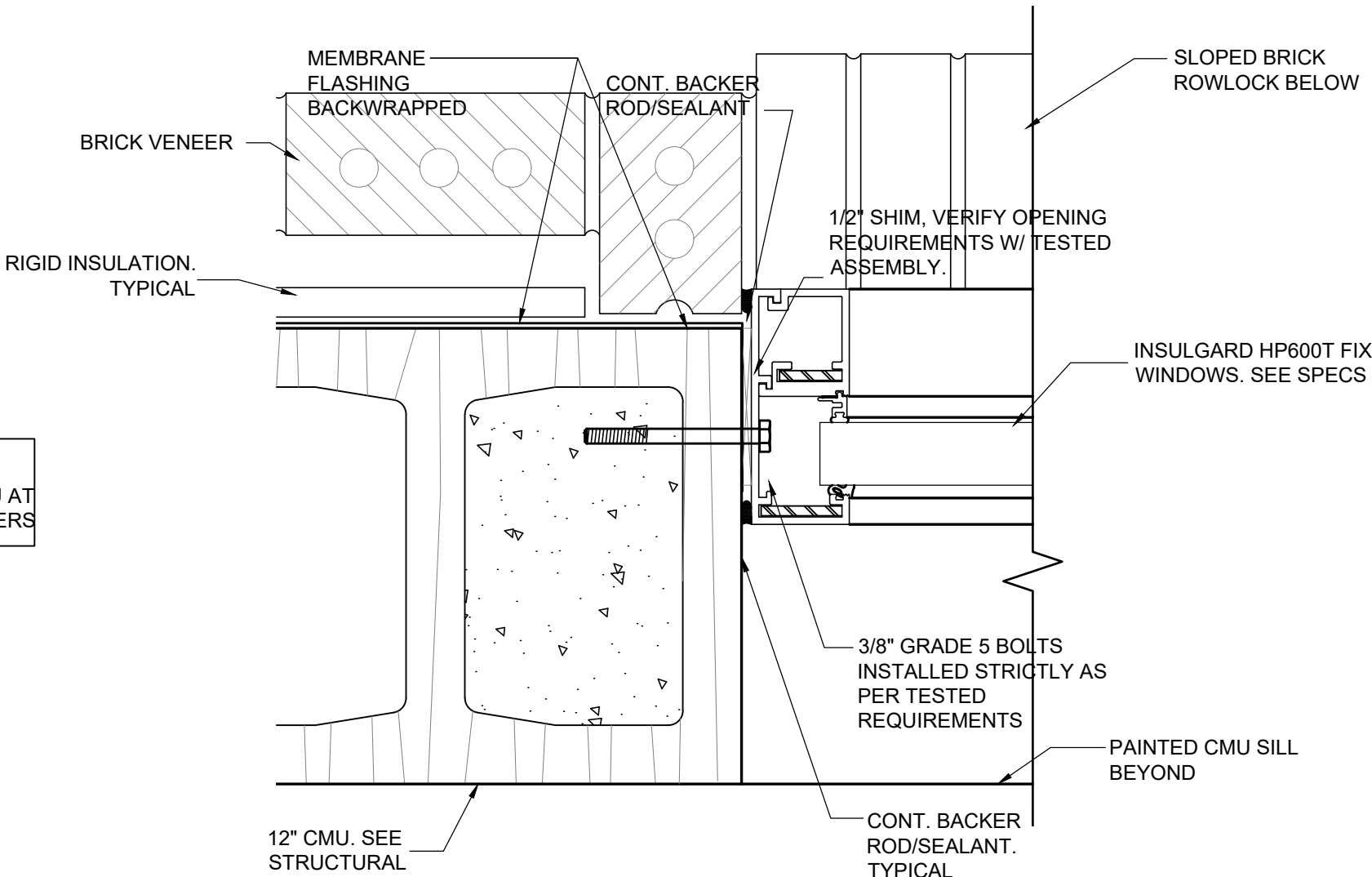


J2 JAMB DETAIL
SCALE: 1-1/12" = 1'-0"

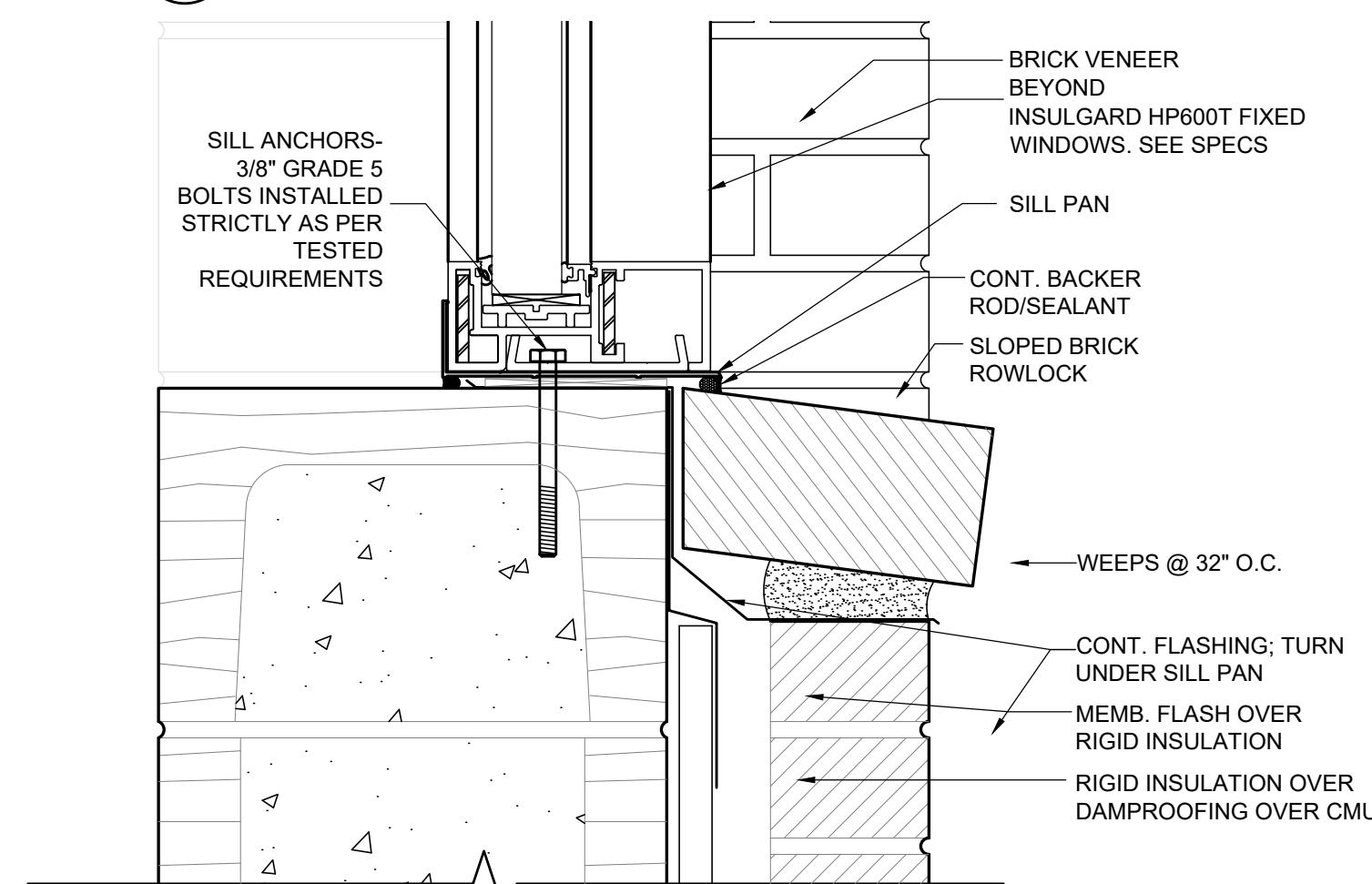
NOTE:
USE BULLNOSE CMU AT
ALL OUTSIDE CORNERS



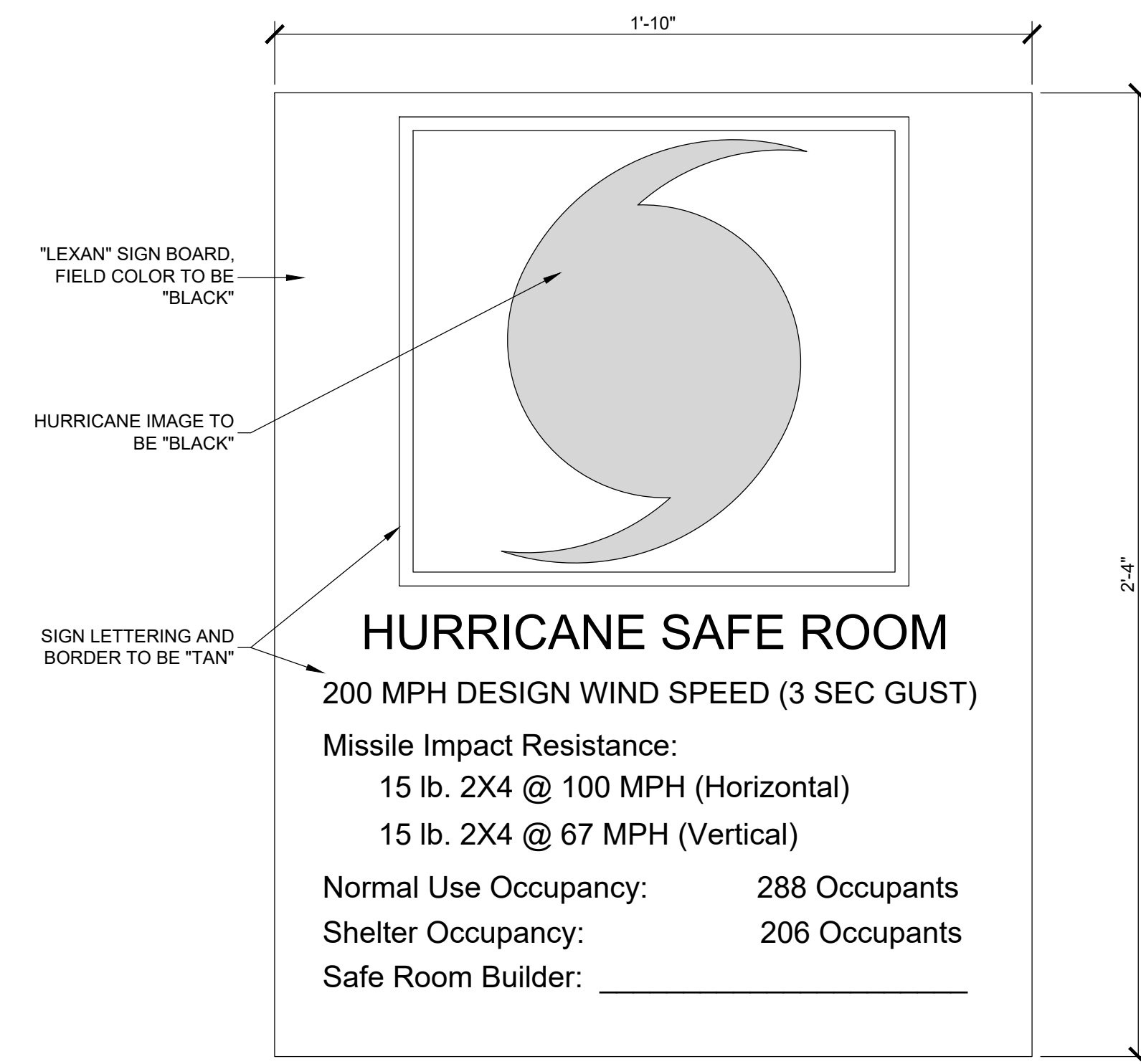
H3 HEAD DETAIL
SCALE: 3" = 1'-0"



J3 JAMB DETAIL
SCALE: 3" = 1'-0"



S3 SILL DETAIL
SCALE: 3" = 1'-0"



HURRICANE SAFE ROOM

200 MPH DESIGN WIND SPEED (3 SEC GUST)

Missile Impact Resistance:

15 lb. 2X4 @ 100 MPH (Horizontal)

15 lb. 2X4 @ 67 MPH (Vertical)

Normal Use Occupancy:

288 Occupants

Shelter Occupancy:

206 Occupants

Safe Room Builder:

NOTE: SIGN TYPICAL AT 2 LOCATIONS

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

- z:\jobs 2024\24-027 city of foley first responder hurricane safe room\01 working drawings\03 construction documents\24-027_A600.1 Finish Sched.dwg

TOILET/ACCESSORIES SCHEDULE				
FBO- Furnished By Owner		IBC- Installed By Owner	FBC- Furnished By Contractor	IBC- Installed By Contractor
SYMBOL	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Furnished / Installed
<u>TTD</u>	TOILET TISSUE DISPENSER	BOBRICK- SURFACE MTD.	B-2740	FBC/IBC
<u>PTD</u>	PAPER TOWEL DISPENSER w/ WASTE	BOBRICK- SURFACE MTD.	B-9262	FBC/IBC
<u>GB1</u>	42" GRAB BAR	BOBRICK- CONCEALED MTG.	B-5806.99 x 42	FBC/IBC
<u>GB2</u>	36" GRAB BAR	BOBRICK- CONCEALED MTG.	B-5806.99 x 36	FBC/IBC
<u>GB3</u>	18" GRAB BAR	BOBRICK- CONCEALED MTG.	B-5806.99 x 18	FBC/IBC
<u>GB4</u>	24" GRAB BAR	BOBRICK- CONCEALED MTG.	B-5806.99 x 24	FBC/IBC
<u>SD</u>	SOAP DISPENSER	BOBRICK- TILT MIRROR	B-2111	FBC/IBC
<u>MIR</u>	ADA MIRROR	BOBRICK- TILT MIRROR	B-293 2436	FBC/IBC
<u>SND</u>	SANITARY NAPKIN DISPOSAL	BOBRICK- SURFACE MTD.	B-254	FBC/IBC
<u>MHS</u>	MOP HANGERS w/ SHELF	BOBRICK- SURFACE MTD.	B-224	FBC/IBC
<u>CH1</u>	COAT HOOK	BOBRICK- SURFACE MTD.	B-6827	FBC/IBC
<u>CH2</u>	SHELF W/ HOOKS	BRADLEY- SURFACE MTD.	MODEL 7B2	FBC/IBC
<u>CH3</u>	COAT HOOK	BOBRICK- SURFACE MTD.	B-232 x 24	FBC/IBC
ALL SPECIFIED MANUFACTURER AND MODEL NUMBERS ABOVE ARE FOR REFERENCE ONLY. APPROVED EQUAL MANUFACTURERS ARE ALLOWED.				

EQUIPMENT LEGEND					
FBO- Furnished By Owner		IBC- Installed By Owner	FBC- Furnished By Contractor	IBC- Installed By Contractor	
SYMBOL	ITEM DESCRIPTION	MANUFACTURER		MODEL #	Furnished / Installed
1	COOKTOP HOOD W/ GUARDIAN SYSTEM	SEE MECHANICAL		SEE MECHANICAL	FBC/IBC
2	DISHWASHER	TBD		TBD	FBO/IBC
3	NATURAL GAS RANGE	TBD		TBD	FBO/IBC
4	COUNTERTOP MICROWAVE	TBD		TBD	FBO/IBC
5	REFRIGERATOR	TBD		TBD	FBO/IBC
6	UPRIGHT FROST FREE FREEZER	TBD		TBD	FBO/IBC
7	ICE MAKER WITH BIN	TBD		TBD	FBO/IBC
ALL SPECIFIED MANUFACTURER AND MODEL NUMBERS ABOVE ARE FOR REFERENCE ONLY. APPROVED EQUAL MANUFACTURERS ARE ALLOWED.					

FINISH SCHEDULE						
NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	
		MATERIAL	MATERIAL	MATERIAL	MATERIAL	CEILING HT.
101	SAFE ROOM AREA	CONC-1	RCB	PT-1	PT-5	±11'-10"
102	CORRIDOR	CONC-1	RCB	PT-1	PT-5	±11'-10"
103	PROTECTED ENTRY	CONC-1	RCB	PT-2	PT-4	12'-0"
104	SHELTER PREP	CONC-1	RCB	FRP	PT-5	±11'-10"
105	UTILITY	CONC-1	RCB	FRP	PT-5	±11'-10"
106	MECHANICAL	CONC-1	RCB	PT-1	PT-5	±11'-10"
107	WOMEN'S RESTROOM	CONC-1	TCB	WT-1	PT-6	±11'-10"
108	MEN'S RESTROOM	CONC-1	TCB	WT-1	PT-6	±11'-10"
109a	CLOSET	CONC-1	RCB	PT-1	PT-5	±11'-10"
109	SUPPLIES	CONC-1	RCB	PT-1	PT-5	±11'-10"
110	SHELTER OPERATIONS	CONC-1	RCB	PT-1	PT-5	±11'-10"
111	SHELTER COMMAND CANTER	CONC-1	RCB	PT-1	PT-5	±11'-10"
112	IT CLOSET	CONC-1	RCB	PT-1	PT-5	±11'-10"
113	SHELTER STORAGE	CONC-1	RCB	PT-1	PT-5	±11'-10"
114	PROTECTED ENTRY	CONC-1	RCB	PT-2	PT-4	12'-0"
115	WASHDOWN AREA	CONC-1	RCB	PT-2	PT-4	12'-0"
116	MECHANICAL YARD	CONC-2	---	PT-3	---	±10'-0"
NOTES: 1. AT ALL FEMA RATED EXTERIOR DOORS PROVIDE WEATHER-STRIPPING, TYPICAL. 2. FINISH COLORS: PROVIDE SAMPLES OF COLORS TO OWNERS REP FOR APPROVAL. 3. PRIOR TO APPLICATION OF FINISHES, CLEAN SURFACES THOROUGHLY SO FINISHES WILL ADHERE PROPERLY. 4. REFER TO INTERIOR ELEVATIONS FOR EXTENT OF SANIGLAZE WALL SYSTEM.						

FINISH SCHEDULE LEGEND	
FLOOR CONC-1 - CONCRETE - SEALED CONC-2 - CONCRETE - "LIGHT" BROOM FINISH	CEILING PT-4 - EPOXY CEILING PAINT - COLOR TO BE SELECTED BY OWNER / ARCHITECT. PT-5 - CEILING PAINT - COLOR TO BE SELECTED BY OWNER / ARCHITECT. PT-6 - MOISTURE RESISTANT CEILING PAINT - COLOR TO BE SELECTED BY OWNER / ARCHITECT.
BASE RCB - 6" RUBBER COVE BASE - COLOR TO BE SELECTED BY OWNER / ARCHITECT TCB - 4" TILE COVE BASE - COLOR TO BE SELECTED BY OWNER / ARCHITECT	H.M. DOOR FRAMES PT-1 - PAINT - COLOR TO BE SELECTED BY OWNER / ARCHITECT. H.M. DOOR PT-1 - PAINT - COLOR TO BE SELECTED BY OWNER / ARCHITECT.
WALL PT-1 - PAINT - COLOR TO BE SELECTED BY OWNER / ARCHITECT. PT-2 - PAINT CMU OVER BLOCK FILLER - COLOR TO BE SELECTED BY OWNER / ARCHITECT. WT-1 - CERAMIC WALL TILE - COLOR TO BE SELECTED BY OWNER / ARCHITECT. FRP - FIBERGALL REENFORCED WALL PANEL - COLOR TO BE SELECTED BY OWNER / ARCHITECT. HBW - SHERWIN WILLIAMS SANIGLAZE HIGH BUILD WALL SYSTEM (PRIMER, BASE COAT, & FINISH COAT) OR EQUAL PT-3 - PAINT EXTERIOR CMU OVER BLOCK FILLER - COLOR TO BE SELECTED BY OWNER / ARCHITECT.	EIFS COLOR TO BE SELECTED BY OWNER / ARCHITECT.

GENERAL FINISH & PROJECT NOTES	
1.	ALL PRODUCTS ARE TO BE INSTALLED AS PER THE MANUFACTURERS RECOMMENDATIONS. CONTACT MANUFACTURERS REPRESENTATIVE FOR SPECIFIC INSTALLATION INSTRUCTIONS.
2.	SEE SPECIFICATIONS FOR ALL PAINTING REQUIREMENTS.
3.	PROVIDE COLOR SAMPLES TO OWNERS REP FOR "OR EQUAL" PRODUCTS.
4.	FINISH COLORS: PROVIDE SAMPLES OF COLORS TO OWNER'S REPRESENTATIVE FOR APPROVAL.
5.	ALL WOOD BLOCKING TO BE NON-COMBUSTIBLE IF REQUIRED BY CODE. ALL BLOCKING IN CONTACT WITH MORTAR, CONC., OR MASONRY TO BE PRESSURE TREATED.
6.	PRIOR TO APPLICATION OF FINISHES, CLEAN SURFACES THOROUGHLY SO FINISHES WILL ADHERE PROPERLY.
7.	REFER TO INTERIOR ELEVATIONS 10/A201.1 FOR EXTENT OF SANIGLAZE WALL SYSTEM.
8.	AT ALL FEMA RATED EXTERIOR DOORS PROVIDE WEATHER-STRIPPING, TYPICAL.
9.	ALL ADHESIVE USED FOR FINISHES MUST BE OF THE TYPE THAT DOES NOT HAVE FORMALDEHYDE AS PART OF ITS CHEMISTRY AND MUST BE SUITABLE FOR THE SPECIFIC PURPOSE INTENDED.
10.	USE BULLNOSE EDGE CMU FOR ALL OUTSIDE CORNERS UNLESS NOTED OTHERWISE.
11.	PAIRED PANEL OPERABLE PARTITION SYSTEM - MODERNFOLD ACQUSTI-SEAL 932 OR EQUAL. ALL OPTIONS AND FINISHES TO BE DETERMINED BY OWNER.

Adams-Stewart-Architects
Architecture-Planning-Interior-Construction Administration
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Robertsdale, Alabama 36567
Office: 251.947.3964



ISSUE	DATE	DESCRIPTION
1.	10.10.25	BID DOCUMENTS

THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

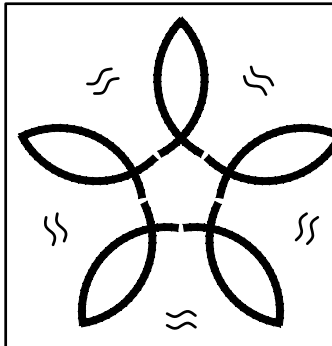
PROJECT NO: 24-027
SHEET NO:
FINISH SCHEDULES
AND DETAILS

A600.1

AIR DEVICE SCHEDULE												
MARK	CD	CFM	BASIS OF DESIGN: TITUS TDC-AA									NOTES
CFM	0-95	96-175	175-240	241-280	281-380	381-470	471-650	471-535	536-740	741-925		12345
GRILLE FACE SIZE	6x6	9x9	9x9	12x12	12x12	12x12	15x15	18x18	18x18	18x18		
DUCT CONNECTION	6Ø	7Ø	8Ø	9Ø	10Ø	12Ø	14Ø	12Ø	14Ø	16Ø		
MARK	SW	CFM	BASIS OF DESIGN: TITUS 300FS									
CFM	0-150	151-220	221-300	301-340	341-400	401-440	441-520	521-600				245
GRILLE FACE SIZE	8x6	10x6	12x6	14x6	12x8	18x6	22x6	12x12				
DUCT CONNECTION	8x6	10x6	12x6	14x6	12x8	18x6	22x6	12x12				
MARK	CB	CFM	BASIS OF DESIGN: TITUS 250-AA									
CFM	0-95	96x150	151-200	201-225	226-275	276-310	311-350	351-400	401-460	461-500		
	8x4	10x6	12x6	10x8	12x8	10x10	12x10	14x10	18x10	20x10		
DUCT CONNECTION	6Ø	8Ø	9Ø	9Ø	10Ø	12Ø	12Ø	12Ø	14Ø	14Ø		

PROVIDE AIR DEVICE WITH THE FOLLOWING OPTIONS:

- 1REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES. PROVIDE AIR DEVICE WITH 24"x24" LAY-IN PANEL FOR GRILLES IN LAY-IN CEILING.
- 2PROVIDE AIR DEVICE WITH INTEGRAL BALANCING DAMPER.
- 3SEE PLAN FOR THROW REQUIREMENTS.
- 4AIR DEVICE SHALL BE PAINTED OFF WHITE.
- 5TRANSITION DUCT FROM SIZE INDICATED TO AIR DEVICE CONNECTION SIZE.



Smith Mechanical
Consulting & Design

ALABAMA CERTIFICATE OF AUTHORIZATION: CA-3717 E
61 Saint Joseph Street
SUITE 1100
MOBILE, AL 36602
(251) 402-1344
ROGER J. SMITH, P.E. 24744
roger@smitheng.us
Smith Job No: 25-032

DUCTLESS SPLIT HEAT PUMP UNIT SCHEDULE													
MARK DSSHPU/ DSSAH/	AIR DATA	COOLING CAPACITY (AT AHRI STANDARD 210/240)				COMPRESSOR RLA	MINIMUM SEER	ELECTRICAL DATA					NOTES
	TOTAL (CFM)	EDB (°F)	EWB (°F)	AMBIENT (°F)	TOTAL BTUH			VOLTS	Hz	PHASE	MCA (AMPS)	MOCP (AMPS)	
1	286	80	67	95	9,000	4.5	16.5	230	60	1	18.8	30	1,2,3,4
NOTES													
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.												
2	PROVIDE UNIT AS A SINGLE POINT POWER CONNECTION TO THE OUTDOOR UNIT. POWER TO INDOOR UNIT IS SUPPLIED FROM THE OUTDOOR UNIT. PROVIDE MOTOR RATED TWO POLE SWITCH AT INDOOR UNIT FOR DISCONNECT.												
3	PROVIDE UNIT WITH REMOTE WALL MOUNTED TYPE THERMOSTAT. PROVIDE WITH INTEGRAL CONDENSATE PUMP. EXTEND INSULATED SCH 40 PVC CONDENSATE DRAIN FROM UNIT TO JANITOR'S SINK FOR DISPOSAL.												
4	BASIS OF DESIGN CARRIER 38MHR009/40MMHC09 SERIES. INDOOR UNIT IS TO BE SURFACE MOUNTED ON THE WALL AS HIGH AS POSSIBLE.												

HVAC GENERAL NOTES:

- 1INSTALL ALL WORK IN COMPLIANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION, THE 2018 INTERNATIONAL MECHANICAL CODE, AND THE 2013 ASHRAE 90.1 ENERGY CONSERVATION CODE.

2COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO BEGINNING ANY WORK.

3INSTALL OUTDOOR UNITS ON 4" THICK CONCRETE PADS EXTENDING 6" IN ALL DIRECTIONS BEYOND FOOTPRINT OF UNIT. PLASTIC OR FIBERGLASS EQUIPMENT PADS SHALL NOT BE USED. SECURE UNITS TO CONCRETE PAD WITH A MINIMUM OF TWO "REDHEAD" TYPE ANCHORS.

4DUCT CONSTRUCTION SHALL BE PER THE LATEST REQUIREMENTS OF NFPA 90A AND 90B, SMACNA AND ASHRAE AND SHALL MEET OR EXCEED THEIR REQUIREMENTS FOR SUPPORT AND REINFORCEMENT.

5REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC INSULATION WITH A MINIMUM THICKNESS OF 0.5". ALL INSULATION INSTALLED AT BUILDING EXTERIOR SHALL BE PAINTED WITH TWO COATS OF WHITE UV PROTECTIVE PAINT.

6BRANCH SUPPLY AND RETURN DUCT RUNOUTS SHALL BE GALVANIZED SNAP-LOCK WITH ALL JOINTS AND SEAMS SEALED WITH MASTIC. TRAVERSE JOINTS SHALL BE CONNECTED WITH SHEET METAL SCREWS MINIMUM 6" ON CENTER. ALL GALVANIZED DUCT SHALL BE INSULATED WITH 2" THICK, 1 POUND DENSITY WRAP INSULATION. INSULATION TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

7FLEXIBLE DUCT TO SUPPLY GRILLES SHALL NOT EXCEED 8'-0". ROUTE EXTERNALLY INSULATED RIGID SNAP LOCK DUCT TO WITHIN 8'-0" OF GRILLE.

8EQUIPMENT PROVIDED AND INSTALLED ON THIS PROJECT SHALL MEET OR EXCEED THE MINIMUM EFFICIENCY REQUIREMENTS INDICATED IN THE SCHEDULE.

9DUCT CONSTRUCTION SHALL BE G-90 GALVANIZED SHEET METAL. DUCT SEALING SHALL BE CLASS "A", ALL JOINTS, SEAMS, AND PENETRATIONS SHALL BE BRUSHED WITH 2 COATS OF WATER BASED MASTIC. THE DUCT SEAL SHALL MEET OR EXCEED PRESSURE CLASS 2'.
- 10ALL EXPOSED RECTANGULAR SHEET METAL DUCT (SUPPLY, RETURN, OUTSIDE AIR) SHALL BE INTERNALLY INSULATED WITH MINIMUM R-6 DUCT LINER. LINER SHALL BE ATTACHED TO THE DUCT WITH STICK PINS OR WELD PINS. OUTSIDE AIR AND EXHAUST AIR PLENUM BOXES BEHIND LOUVERS SHALL NOT BE INTERNALLY INSULATED, THEY SHALL BE EXTERNALLY INSULATED WITH 2" THICK, R-8 WRAP INSULATION. ALL INSULATION SHALL BE INSTALLED PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS. THE FIRST 10' OF SUPPLY DUCT ON AIR HANDLING UNITS SHALL BE INTERNALLY INSULATED WITH 1/2" ACOUSTICAL LINER INSULATION. ALL DUCT LINER INSULATION SHALL BE INSTALLED WITH 100% GLUE COVERAGE AND WELD PINS. DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS. INCREASE METAL SIZES AS NECESSARY TO PROVIDE INDICATED CLEAR INSIDE DIMENSION.

11THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS. CONTRACTOR SHALL INSTALL LOUVERS PER MANUFACTURERS RECOMMENDATIONS AND DETAILS INDICATED ON THE ARCHITECTURAL PLANS.

12ALL OUTSIDE AIR INLETS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. COORDINATE WITH THE PLUMBING DRAWINGS AND WITH THE PLUMBING AND GENERAL CONTRACTORS IN THE FIELD.

13THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES IN THE FIELD. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS PER NATIONAL ELECTRIC CODE REQUIREMENTS. DUCT SHALL NOT ROUTE OVER ELECTRICAL PANELS.

14OFFSET AND TRANSITION DUCT AS NECESSARY TO AVOID STRUCTURAL MEMBERS OR EQUIPMENT CONNECTION SIZES. PROVIDE FLEXIBLE DUCT CONNECTORS ON ALL DUCT CONNECTION TO MOTORIZED EQUIPMENT.

15PROVIDE EACH HVAC SYSTEM WITH A 7 DAY PROGRAMMABLE WI-FI THERMOSTAT WITH BATTERY BACKUP AND UNOCCUPIED HOURS SET BACK CAPABILITIES. THERMOSTAT SHALL BE CAPABLE OF INTERLOCKING WITH ASSOCIATED MOTORIZED DAMPERS IN THE OA AND RA DUCTS TO MEET THE SEQUENCE OF OPERATION REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY RACEWAYS, WIRING, AND APPURTENANCES TO ACCOMPLISH THE SEQUENCT OF OPERATION. SUBMIT CONTROLS WIRING DIAGRAM FOR APPROVAL PRIOR TO BEGINNING ANY WORK.



Mechanical Compliance Certificate

Project Information

Energy Code:2018 IECC
Project Title:Foley First Responders Hurricane Shelter
Location:Foley, Alabama
Climate Zone:2a
Project Type:New Construction

Construction Site:Owner/Agent:Designer/Contractor:

Foley , Alabama 36535

Mechanical Systems List

Quantity	Component	Description
HVAC Systems		
2	HPU/AHU-1 & -2 (Single Zone):	Split System Heat Pump Heating Mode: Capacity = 88 kBtu/h, Proposed Efficiency = 3.40 COP, Required Efficiency = 3.30 COP Cooling Mode: Capacity = 111 kBtu/h , No Economizer , Economizer exception: None Proposed Efficiency = 15.00 EER, Required Efficiency = 11.00 EER Proposed Part Load Efficiency = 14.00 IEER, Required Part Load Efficiency = 12.00 IEER Fan System: Unspecified SYSTEM COMPLIANCE FAILS: Economizer requirements have not been met. Total proposed cooling capacity without economizer (279 kBtu/h) must be <= Total allowable cooling capacity without economizer (0 kBtu/h)
1	HPU/AHU-3 (Single Zone):	Split System Heat Pump Heating Mode: Capacity = 44 kBtu/h, Proposed Efficiency = 7.50 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 57 kBtu/h , No Economizer , Economizer exception: None Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified SYSTEM COMPLIANCE FAILS: PROPOSED EFFICIENCY FAILS TO MEET CODE REQUIREMENTS.

Mechanical Compliance Statement

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

Name - TitleSignatureDate

Report Title: Foley First Responders Hurricane ShelterReport Date: 10/10/25, 4:15 PM2 of 10

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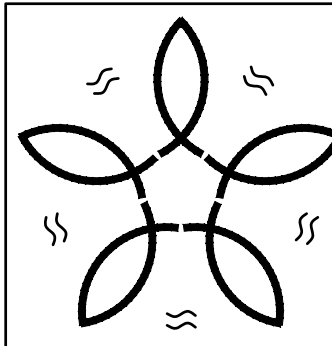
THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027
SHEET NO:
HVAC NOTES
AND
SCHEDULES
M1.0

FAN SCHEDULE														
MARK FAN	AIR FLOW (CFM)	STATIC PRESSURE (in of H2O)	DRIVE TYPE	FAN TYPE	FAN SERVICE	INTERLOCK WITH	MAXIMUM RPM	MAXIMUM SONES	MOTOR		ELECTRICAL DATA			NOTES
									WATTS	HORSE POWER	VOLTS	Hz	PHASE	
EF-1	310	0.3	DIRECT	CEILING	RESTROOMS	LIGHTS	1,020	1.3	107	N/A	120	60	1	1, 2, 3
EF-2	310	0.3	DIRECT	CEILING	RESTROOMS	LIGHTS	1,020	1.3	107	N/A	120	60	1	1, 2, 3
KEF-1	700	0.5	DIRECT	INLINE	KIT. HOOD	HOOD SWITCH	1,200	5.0	...	1/3	120	60	1	1
NOTES														
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. HVAC CONTRACTOR SHALL PROVIDE CUT SHEETS ON ALL EQUIPMENT REQUIRING POWER FOR CIRCUIT SIZING COORDINATION.													
2	PROVIDE FAN WITH SOLID STATE SPEED CONTROLLER. CONTROLLER SHALL BE LOCATED ADJACENT TO THE FAN.													
3	EXTEND RIGID SNAP LOCK EXHAUST DUCT TO EXISTING DISCHARGE WALL CAP OR SOFFIT GRILLE.													

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE																												
MARK AHU/ HPU	AIR DATA				COOLING CAPACITY					ELECTRIC REHEAT		FILTER		COMPRESSOR (RLA)	OUTDOOR FAN (FLA)	MINIUMUM HSPF/COP	MINIMUM SEER	ELECTRICAL DATA										NOTES
	TOTAL (CFM)	OUTSIDE (CFM) HIGH/LOW	EXTERNAL STATIC PRESSURE (in of H2O)	MOTOR (HP)	EDB (F)	EWB (F)	AMBIENT (F)	SENSIBLE BTUH	TOTAL BTUH	CONTROL STAGES	STRIP HEAT (KW)	TYPE	MIN MERV					OUTDOOR UNIT			INDOOR UNIT			OUTDOOR UNIT		INDOOR UNIT		
																		VOLTS	Hz	PHASE	VOLTS	Hz	PHASE	MCA (AMPS)	MOCP (AMPS)	MCA (AMPS)	MOCP (AMPS)	
1	3,750	678 / 375	0.5	1.3	80	67	95	78,100	111,700	2	25.0	1"	8	26.6	2	-/3.4	15.0	208	60	3	208	60	3	37	60	73.1	80	1, 2, 3, 4, 5
2	3,750	678 / 375	0.5	1.3	80	67	95	78,100	111,700	2	25.0	1"	8	26.6	2	-/3.4	15.0	208	60	3	208	60	3	37	60	73.1	80	1, 2, 3, 4, 5
3	1,950	275 / 195	0.5	3/4	80	67	95	44,090	57,760	1	15.0	1"	8	16	1.5	7.5/3.74	14.0	208	60	3	208	60	1	21.5	35	45.6	50	1, 2, 3, 4, 6
NOTES																												
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. HVAC CONTRACTOR SHALL PROVIDE CUT SHEETS ON ALL EQUIPMENT REQUIRING POWER FOR CIRCUIT SIZING COORDINATION.																											
2	PROVIDE AIR HANDLING UNIT WITH 1" THICK INSULATION AND FACTORY MOUNTED SINGLE POINT POWER DISCONNECT TO SERVE BOTH THE FAN MOTOR AND STRIP HEAT.																											
3	PROVIDE AND INSTALL AIR HANDLING UNIT WITH RETURN DUCT MOUNTED SMOKE DETECTOR.																											
4	OUTSIDE AIR DAMPER SHALL MODULATE TO PROVIDE HIGH/LOW SETPOINTS AS DETERMINED BY CARBON DIOXIDE LEVELS. AS CARBON DIOXIDE LEVELS IN THE RETURN ARE ABOVE 700 PPM, THE OA AND RA DAMPERS SHALL MODULATE TO MAINTAIN THE HIGHER AIR FLOW. AS LEVELS ARE BELOW 700 PPM, THE DAMPERS SHALL MODULATE TO MAINTAIN THE MINIMUM OA AIRFLOW.																											
5	BASIS OF DESIGN: CARRIER 38AXQ/40RLQ SERIES. PROVIDE WITH WIFI ENABLED THERMOSTAT.																											
6	BASIS OF DESIGN: CARRIER 27SCA/FJ5A SERIES. PROVIDE WITH WIFI ENABLED THERMOSTAT.																											

SEQUENCE OF OPERATION	
AHU-1 THROUGH -3	
NORMAL BUILDING OCCUPANCY:	
AS THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT, THE SPLIT DX AIR CONDITIONING SYSTEM SHALL ENERGIZE FOR FULL COOLING WITH THE FAN SPEED AT MAXIMUM. AS SPACE TEMPERATURES ARE SATISFIED, THE UNIT SHALL MODULATE DOWN TO ALLOW FOR DEHUMIDIFICATION AS REQUIRED BY THE SPACE HUMIDITY SETPOINT.	
AS THE SPACE TEMPERATURES ARE BELOW THE HEATING SETPOINT, THE HEAT STRIPS SHALL ENERGIZE AND HEAT SHALL BE PROVIDED THROUGH THE UNIT MOUNTED ELECTRIC HEATER.	
AS THE SPACE TEMPERATURE IS IN THE DEADBAND BETWEEN THE HEATING AND COOLING SETPOINT, THE AIR HANDLING UNIT FAN SPEED SHALL MODULATE TO THE LOWEST AIR FLOW.	
AS THE AIR HANDLING UNIT IS ENERGIZED, THE OUTSIDE AIR DAMPER SHALL MODULATE FROM THE CLOSED POSITION TO THE MINIMUM OUTSIDE AIR SETPOINT. AS THE RETURN AIR, SETPOINT ADJUSTABLE, CARBON DIOXIDE SENSOR DETECTS LEVELS ABOVE 700 PPM, THE MOTORIZED OUTSIDE AIR DAMPER SHALL MODULATE TO THE MAXIMIM OUTSIDE AIR SETPOINT. AS THE OUTSIDE AIR DAMPER MODULATES BETWEEN THE TWO OPEN POSITIONS, THE CORRESPONDING RETURN AIR DAMPER SHALL MODULATE TO THE TWO POSITIONS TO MAINTAIN THE OUTSIDE AIR FLOW RATES. DAMPER POSITIONS SHALL BE SET BY THE TEST AND BALANCE CONTRACTOR.	
DURING UNOCCUPIED PERIODS,THE SUPPLY FAN SHALL BE DISABLED AND OUTSIDE AIR DAMPER CLOSED. UPON CALL FOR HEATING OR COOLING SETPOINTS OF 65°F/85°F, THE SUPPLY FAN SHALL BE ACTIVATED AND COOLING/HEATING SHALL OPERATE AS NORMAL UNTIL THE SPACE TEMPERATURE SETPOINT IS SATISFIED.	



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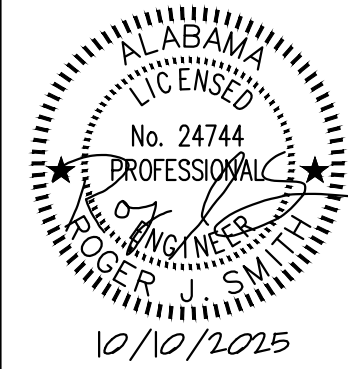
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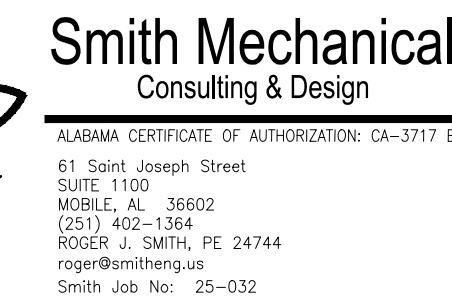
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NORTH POPLAR STREET

FOLEY, ALABAMA 36535



- 1 EXTERIOR WALL MOUNTED HURRICANE RATED INTAKE/EXHAUST AIR LOUVER, FEMA 361, AND WEATHERPROOF. PROVIDE WITH EPOXY COATING. COORDINATE COLOR AND FINAL LOCATION OF LOUVER ON WALL WITH THE ARCHITECT. PROVIDE LOUVER WITH A FULL SIZE 10 GA. SHEET METAL PLENUM FOR ROUTING OF DUCTWORK TO CONNECT TO FULL OPENING SIZE ON BACK OF UNIT. PLENUM BOX SHALL PROVIDE A MINIMUM OF 8" OF FREE AREA BEHIND LOUVER. BOTTOM OF PLENUM SHALL BE SLOPED TOWARD THE BUILDING EXTERIOR TO AID IN WATER REMOVAL. PROVIDE LOUVER WITH BIRD SCREEN. INSTALL LOUVER PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS.
- 2 WALL MOUNTED, COOLING ONLY DUCTLESS SPLIT SYSTEM. INSTALL ON WALL AS HIGH AS POSSIBLE. EXTEND PUMPED, INSULATED, RIGID CONDENSATE DRAIN PIPING TO JANITOR'S SINK FOR DISPOSAL.
- 3 CONTRACTOR SHALL PROVIDE AND INSTALL A DENLAR MODEL D1036-D-IF-NFPA .36" RANGE HOOD WITH FIRE SUPPRESSION SYSTEM IN THE RESIDENTIAL HOOD. PROVIDE WITH INLINE FAN, CLOCKBOX, AND MANUAL PULL STATION. INSTALL PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS. INSTALL THE SUPPRESSION SYSTEM TANKS IN THE ADJACENT CABINET. COORDINATE INSTALLATION WITH OTHER TRADES. EXTEND 7"Ø HOOD EXHAUST DUCT UP AND OUT TO BUILDING EXTERIOR THEN DOWN FOR DISCHARGE. CAP ICC 500 PENETRATION COVER WITH BIRD SCREEN AND STEEL GRATE. SEE DETAIL FOR DUCT PENETRATION THROUGH SHELTER WALL. SEAL EXHAUST DUCT AIR TIGHT. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- 4 ROUTE UNDERSIDE OF DUCT PARALLEL WITH BOTTOM OF STRUCTURAL BEAM IN SAFE ROOM AREA AS HIGH AS POSSIBLE.
- 5 HORIZONTAL AIR HANDLING UNIT INSTALLED AS HIGH AS POSSIBLE TO UNDERSIDE OF HOLLOW CORE. INSTALL UNIT PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS. PROVIDE AIR HANDLING UNIT WITH AUXILIARY DRAIN PAN. SEE HORIZONTAL AIR HANDLING UNIT DETAIL FOR MORE INFORMATION. RUN INSULATED CONDENSATE DRAIN PIPING TO FLOOR DRAIN FOR DISCHARGE.
- 6 INSTALL AIR HANDLING UNIT ON RETURN AIR PLenum PLATFORM CONSTRUCTED FROM NON-COMBUSTIBLE MATERIALS. ROUTE INSULATED, TRAPPED CONDENSATE DRAIN PIPING TO FLOOR DRAIN FOR DISPOSAL.

HVAC PLAN

8' 0' 8' 16'

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

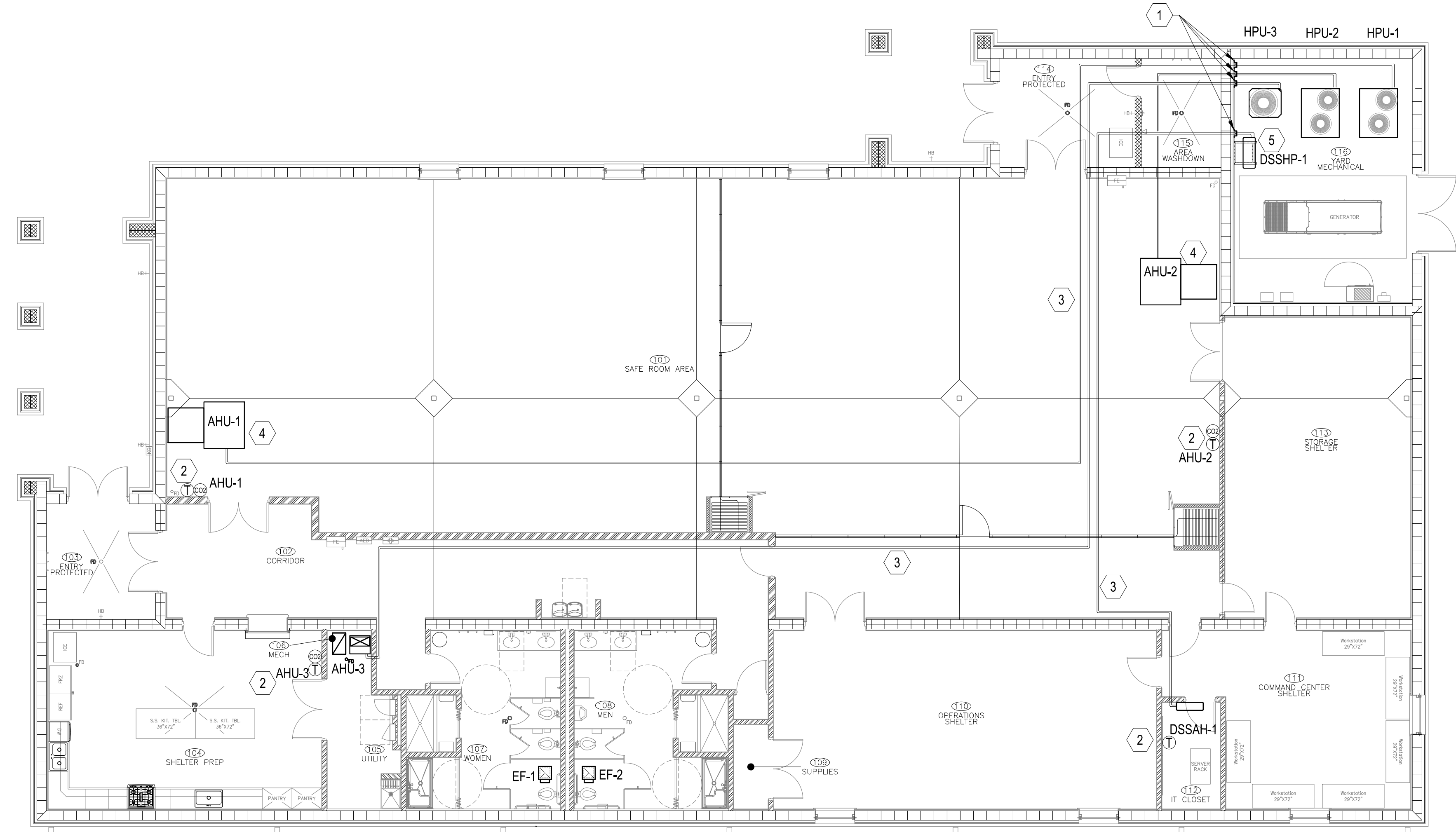
M2.0

SHEET NOTES

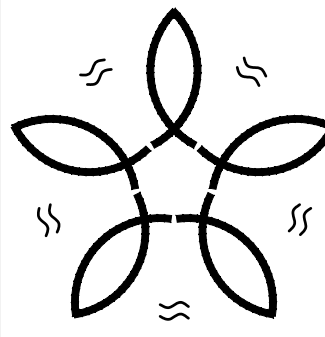
- 1
- SEE DETAIL FOR REFRIGERANT PIPING PENETRATION THROUGH SHELTER WALL.
- 2
- INSTALL THERMOSTAT AND CARBON DIOXIDE SENSOR 48" AFF PER ADA REQUIREMENTS.
- 3
- ROUTE REFRIGERANT UP AS HIGH AS POSSIBLE ON UNDERSIDE OF HOLLOW CORE.
- 4
- PROVIDE AHU WITH AUXILIARY DRIP PAN. ROUTE TRAPPED AND INSULATED CONDENSATE DOWN ALONG ADJACENT WALL TO FLOOR DRAIN.
- 5
- OUTDOOR UNIT TO BE INSTALLED ON A FACTORY FABRICATED WALL BRACKET. INSTALL UNIT AS HIGH AS POSSIBLE WHILE MAINTAINING SPECIFIC MANUFACTURER'S RECOMMENDED CLEARANCES. INSTALL ASSEMBLY PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS. SECURE UNIT AND BRACKET TO THE WALL PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS.

2018 IMC REFRIGERATION CALCULATION

AHU	REFRIGERANT	PIPE LENGTH FT	SYSTEM CHARGE (lb)	REFRIGERANT IN SYSTEM (lb)	OCCUPIABLE SPACE (ft³)	POUNDS PER 1,000 CUBIC FEET	ALLOWABLE REFRIGERANT (lb)
1	R-454B	170	27	36.57	78,900	22	1735.8
2	R-454B	50	27	28.65			
3	R-454B	170	8.7	14.07			
DSSAH-1	R-454B	85	8.7	11.89			
TOTAL				91.18			



1 HVAC PIPING PLAN
8' 0' 8' 16'
SCALE: 1/8"=1'-0"



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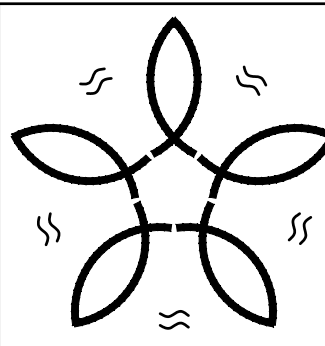
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PLAN
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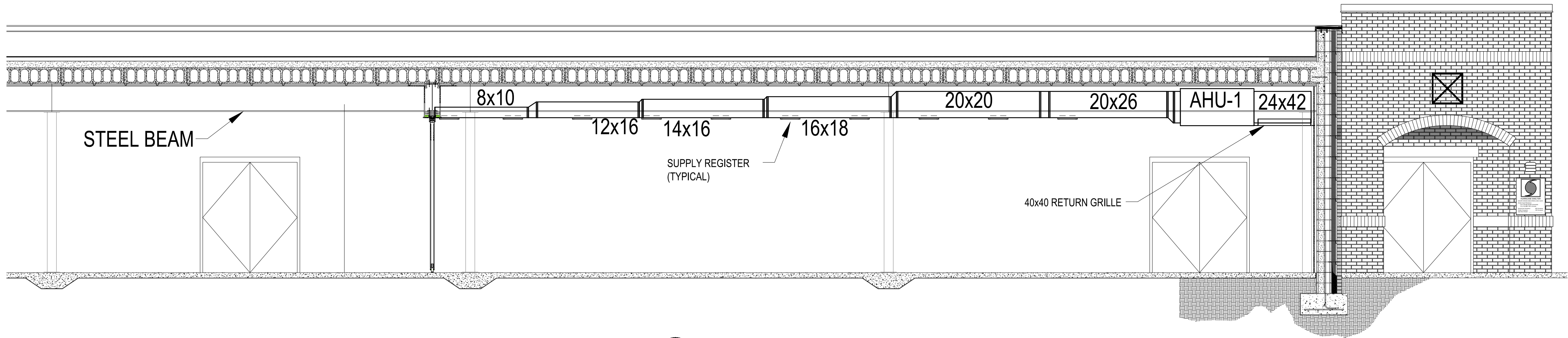
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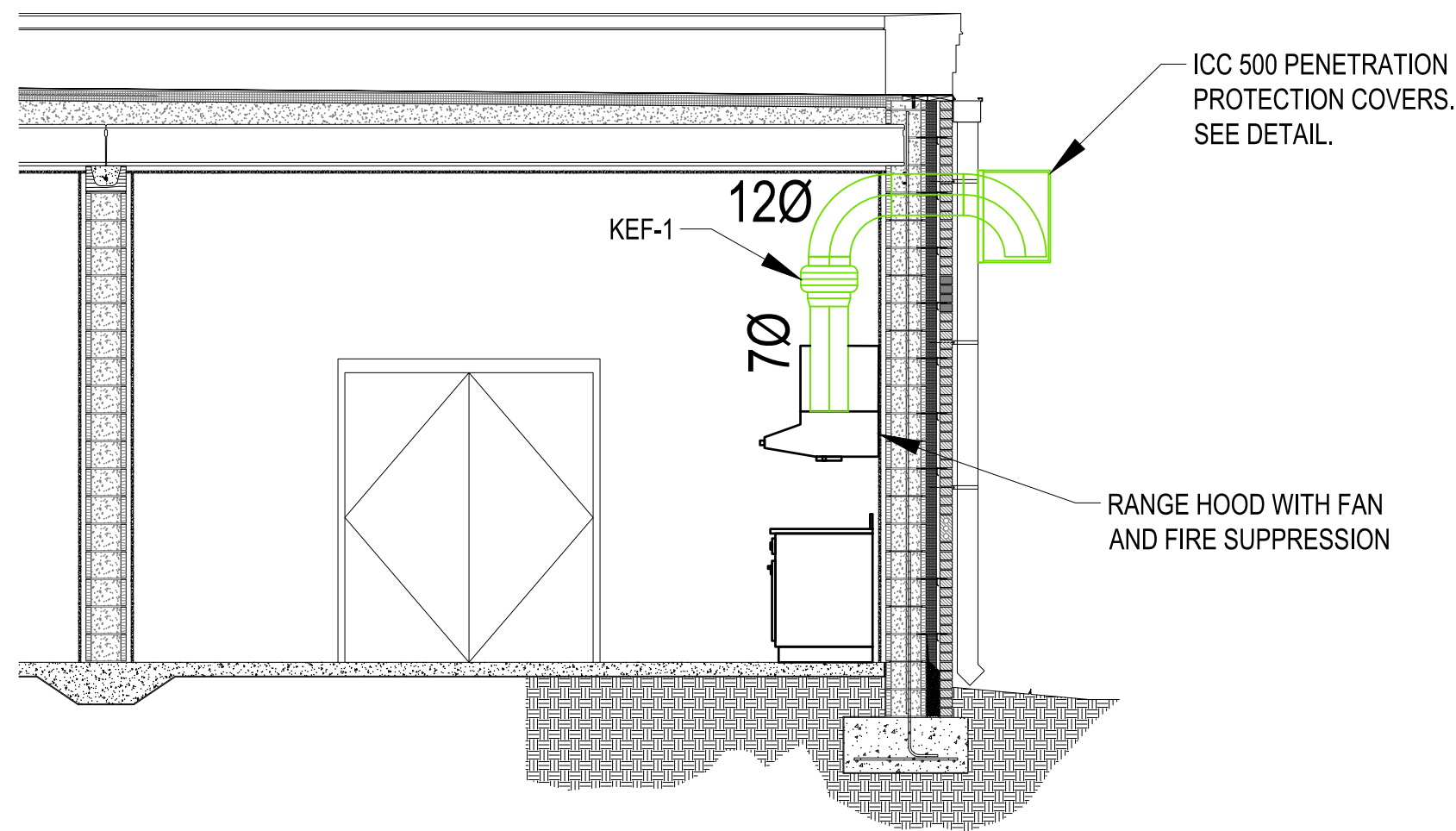
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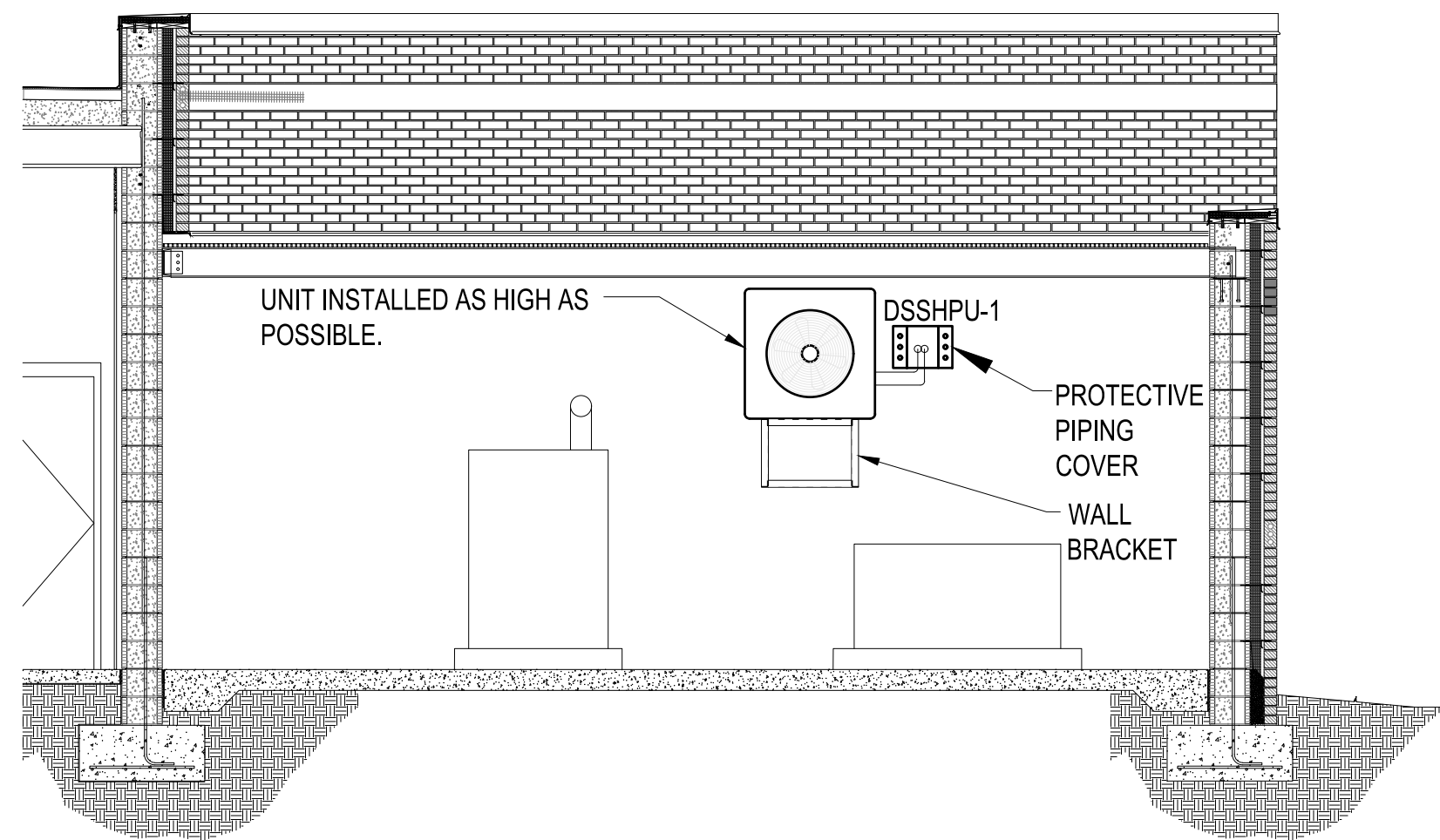
PROJECT NO: 24-027
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SECTION VIEWS
M3.0



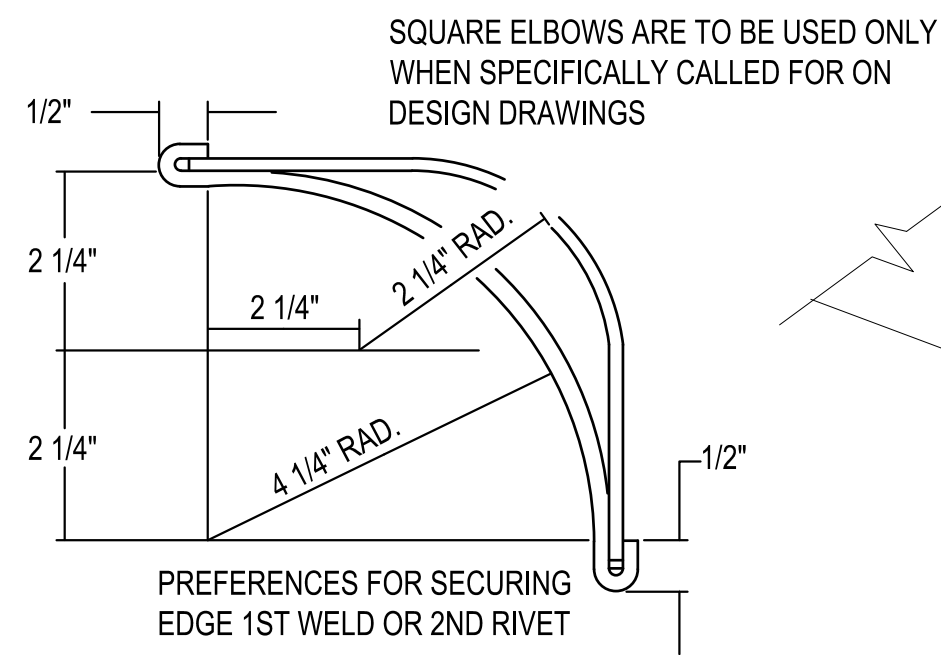
1 SAFE ROOM HVAC DUCT WORK
SCALE: 1/4"=1'-0"



2 RANGE SECTION VIEW
SCALE: 1/4"=1'-0"

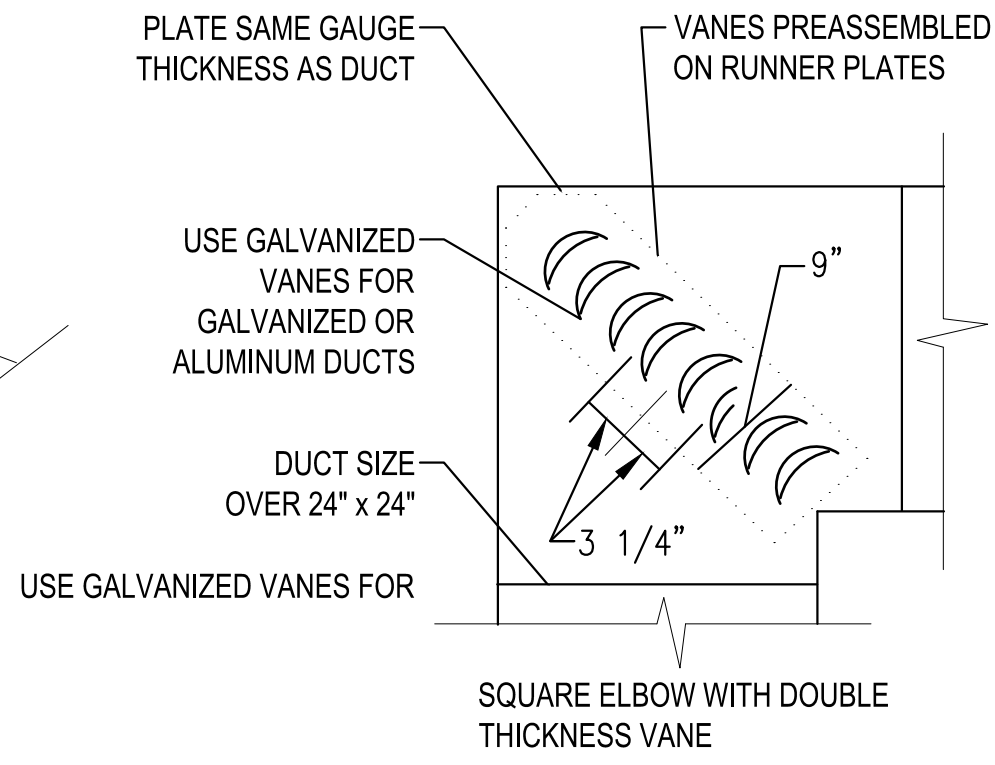


3 MECHANICAL YARD SECTION VIEW
SCALE: 1/4"=1'-0"

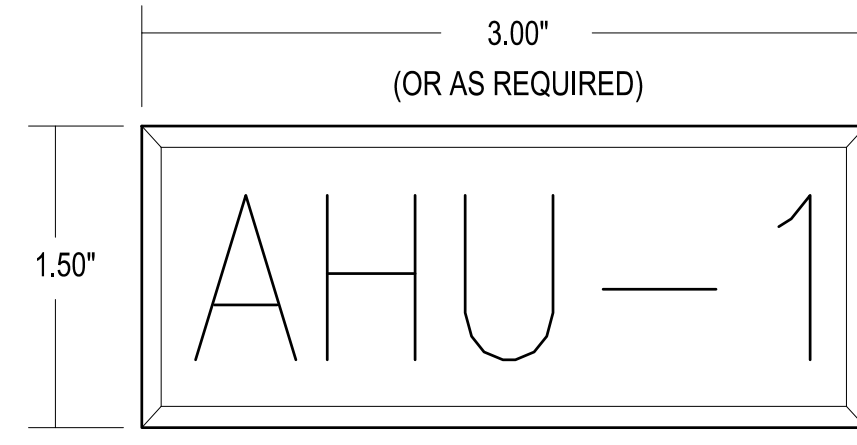


DOUBLE THICKNESS VANES FOR USE IN DUCTS GREATER THAN 24"x24" IN SIZE. USE SAME GAUGE GALVANIZED IRON AS DUCT NOT TO EXCEED 20 GAUGE

NOTES:
USE GALVANIZED STEEL FOR VANES IN EITHER STEEL OR ALUMINUM DUCTWORK. PROVIDE 1 STAY FOR DUCTS 72" TO 120" WIDE & 2 STAYS AT 1/3 POINTS FOR 120" & ABOVE



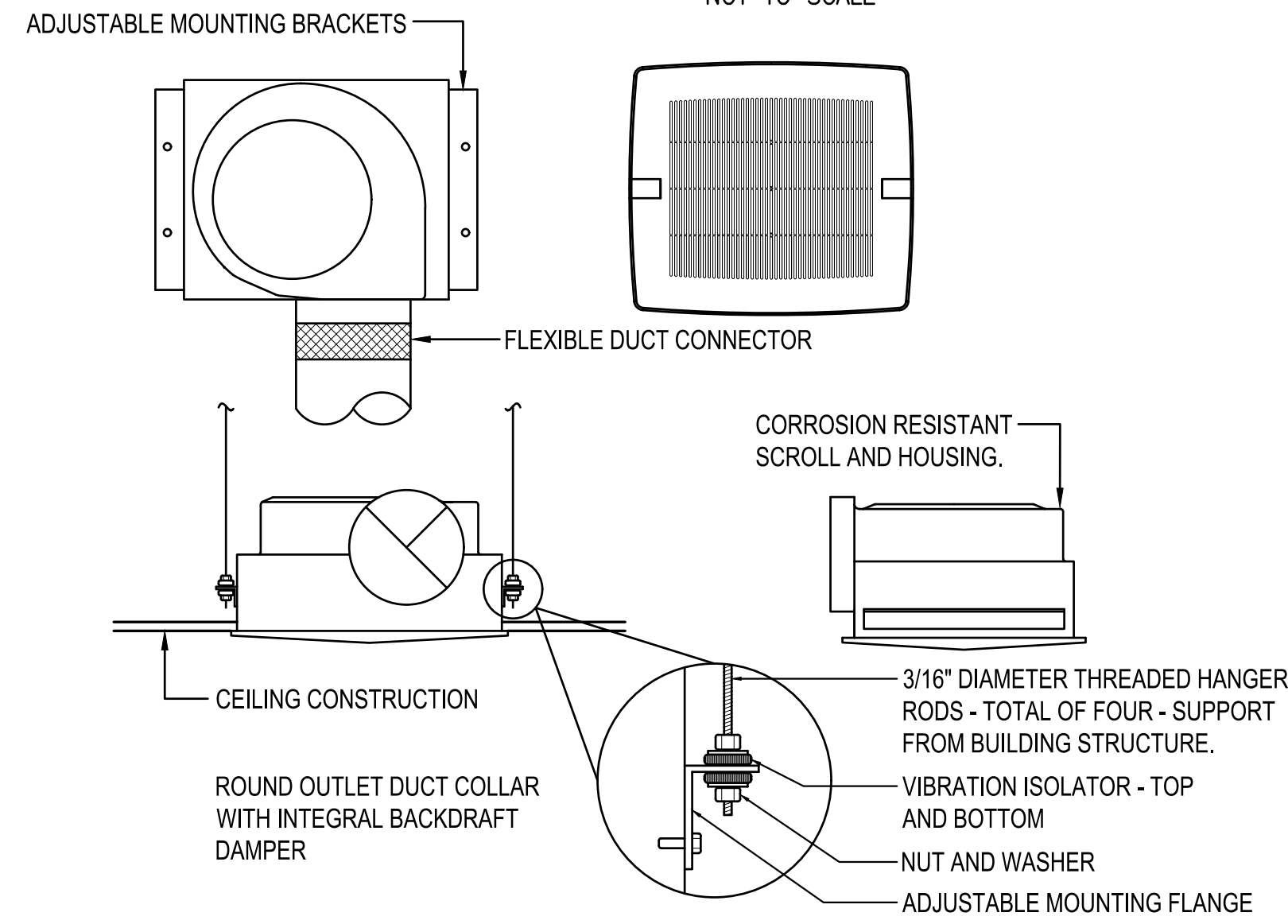
2 TYPICAL CONDENSATE TRAP DETAIL
NOT TO SCALE



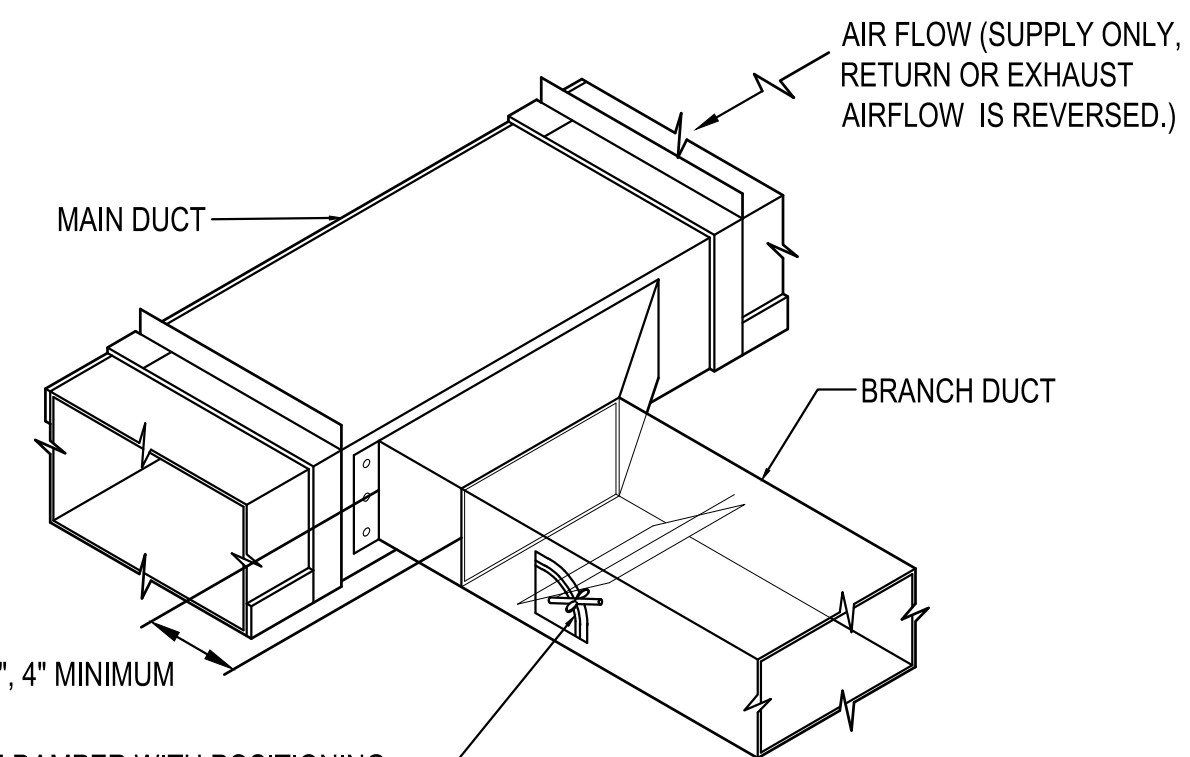
ENGRAVED PLASTIC TAG WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH PERMANENT, WATERPROOF DOUBLE SIDED TAG TAPE AT VISIBLE LOCATION ON MECHANICAL EQUIPMENT. LABEL ALL INDOOR AND OUTDOOR UNITS WITH NOTATION SHOWN ON PLANS.

3 TYPICAL ENGRAVED TAG DETAIL
NOT TO SCALE

1 TURNING VANE DETAIL
NOT TO SCALE

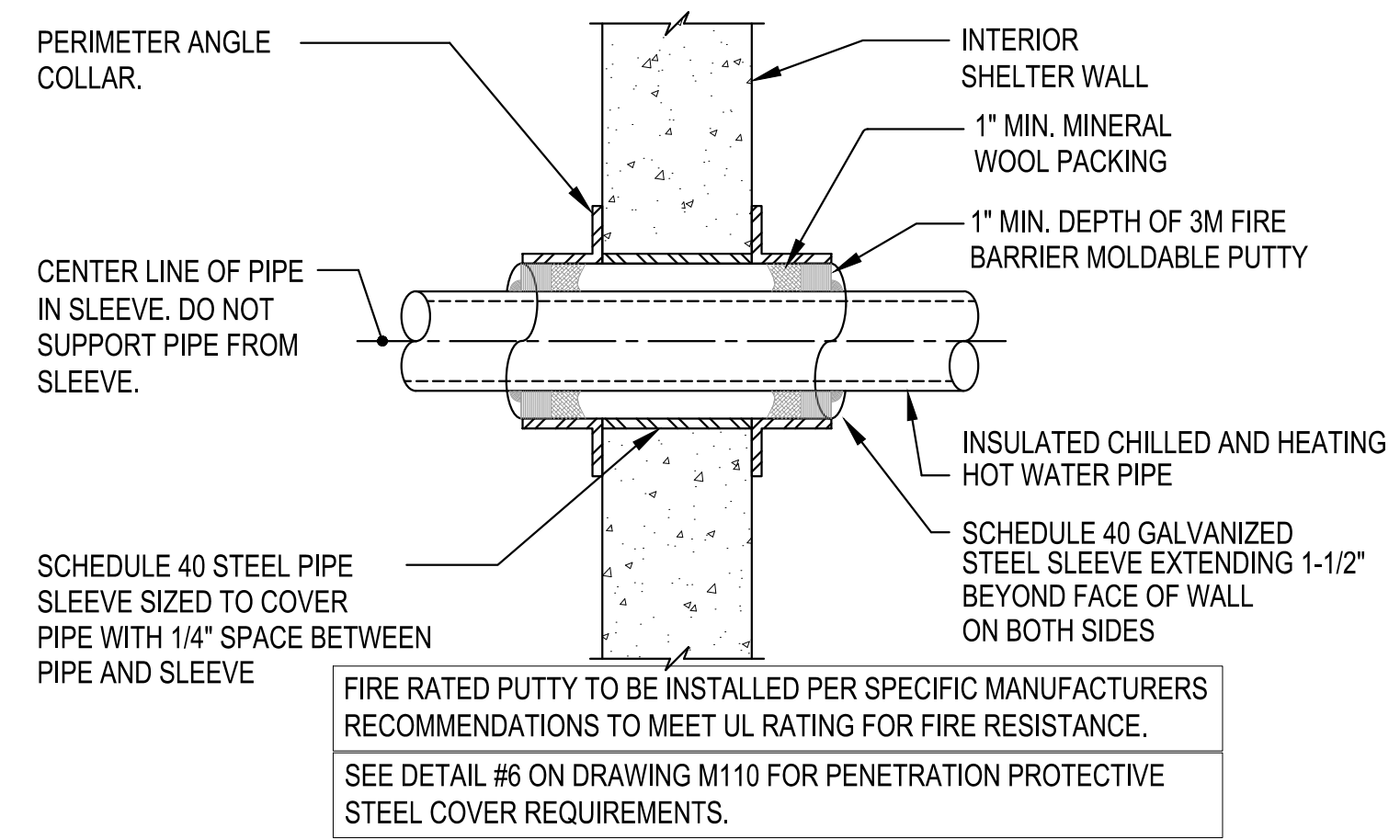


4 CEILING EXHAUST FAN DETAIL
NOT TO SCALE

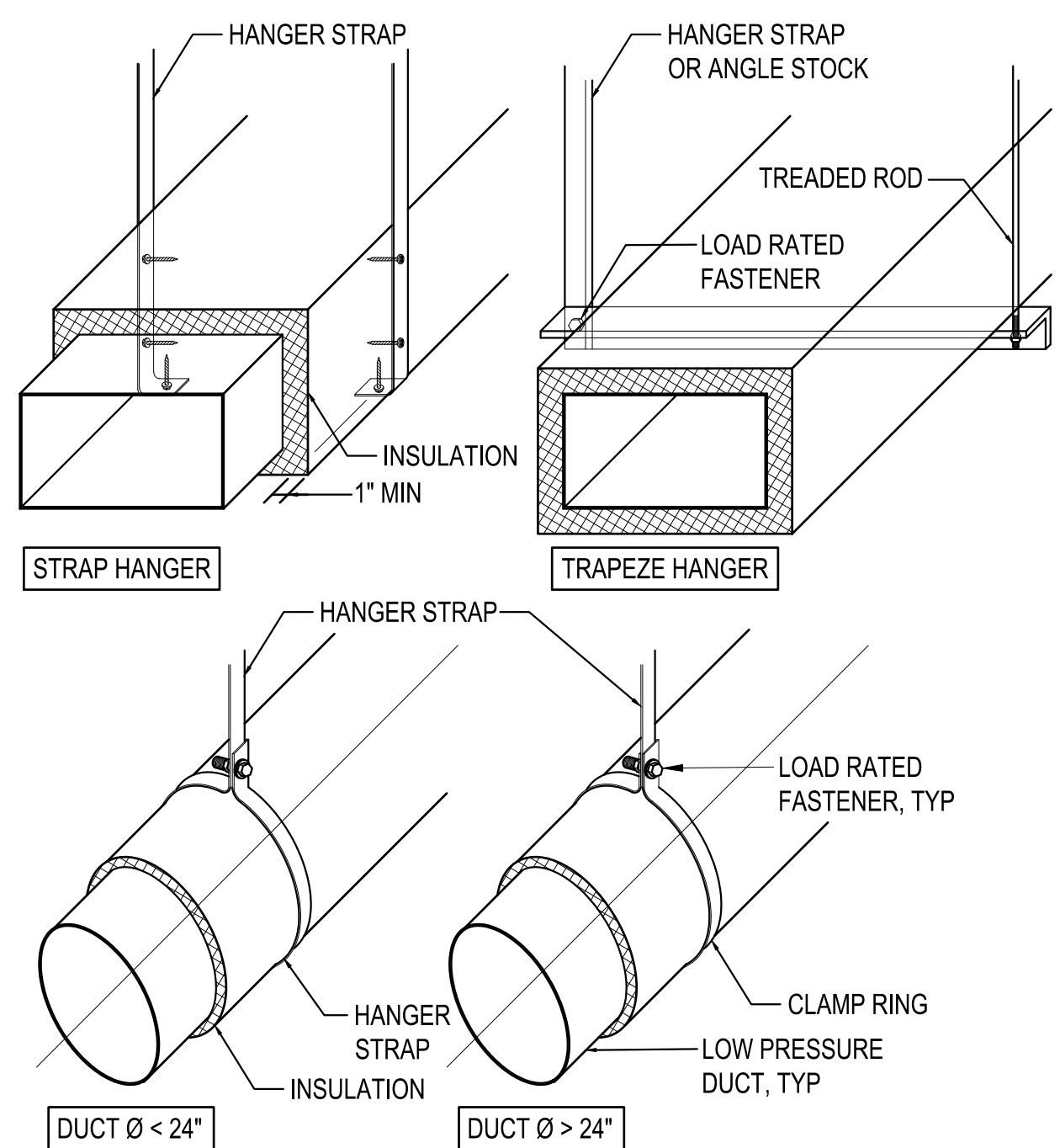


ADJUSTABLE VOLUME DAMPER WITH POSITIONING LEVER, EXTENSION SECTION (INSULATED DUCT ONLY) AND LOCKING WING NUT. VOLUME DAMPER SHALL BE SINGLE BLADE OR MULTI-BLADE DEPENDING ON DUCT SIZE, SEE SPECIFICATIONS. LOCATE DAMPER AT LEAST 12" DOWNSTREAM OF TAKEOFF.

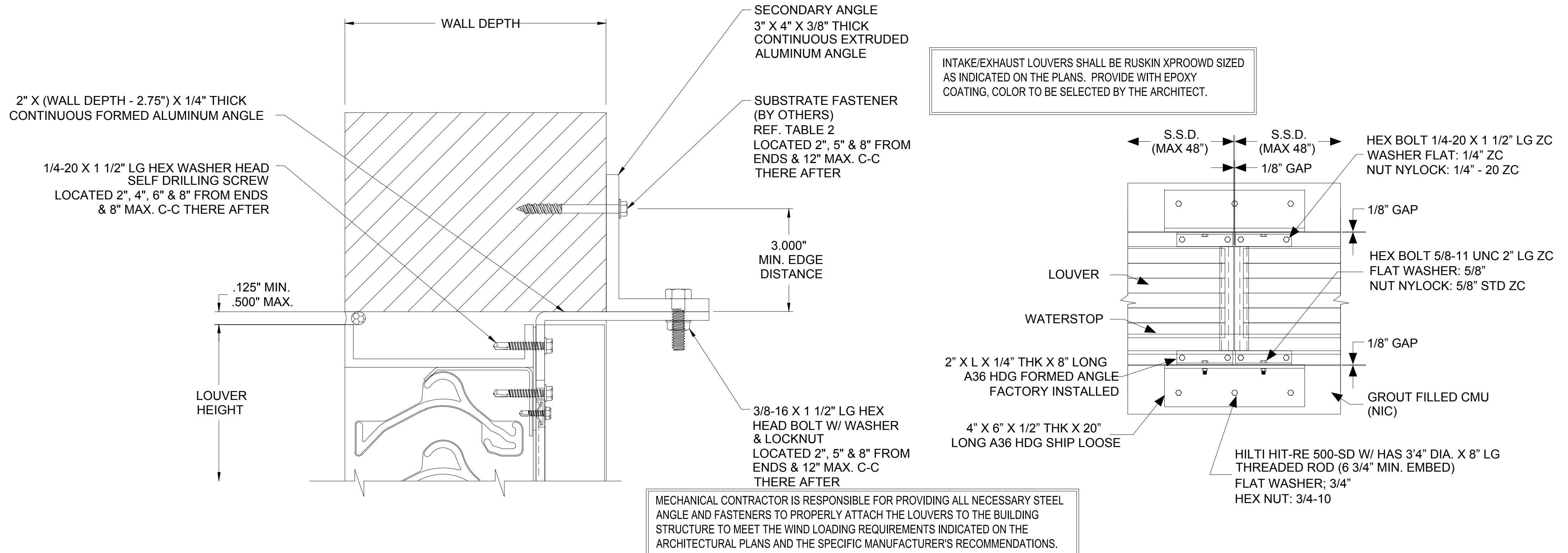
5 TYPICAL RETURN BRANCH DUCT TAKEOFF DETAIL
NOT TO SCALE



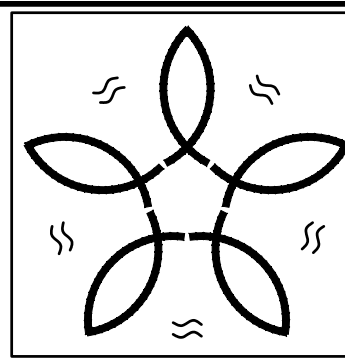
6 RATED SHELTER WALL PENETRATION DETAIL
NOT TO SCALE



7 DUCT HANGER DETAIL
NOT TO SCALE



8 FEMA 361 / ICC 500 LOUVER INSTALLATION (CMU WALL)
NOT TO SCALE



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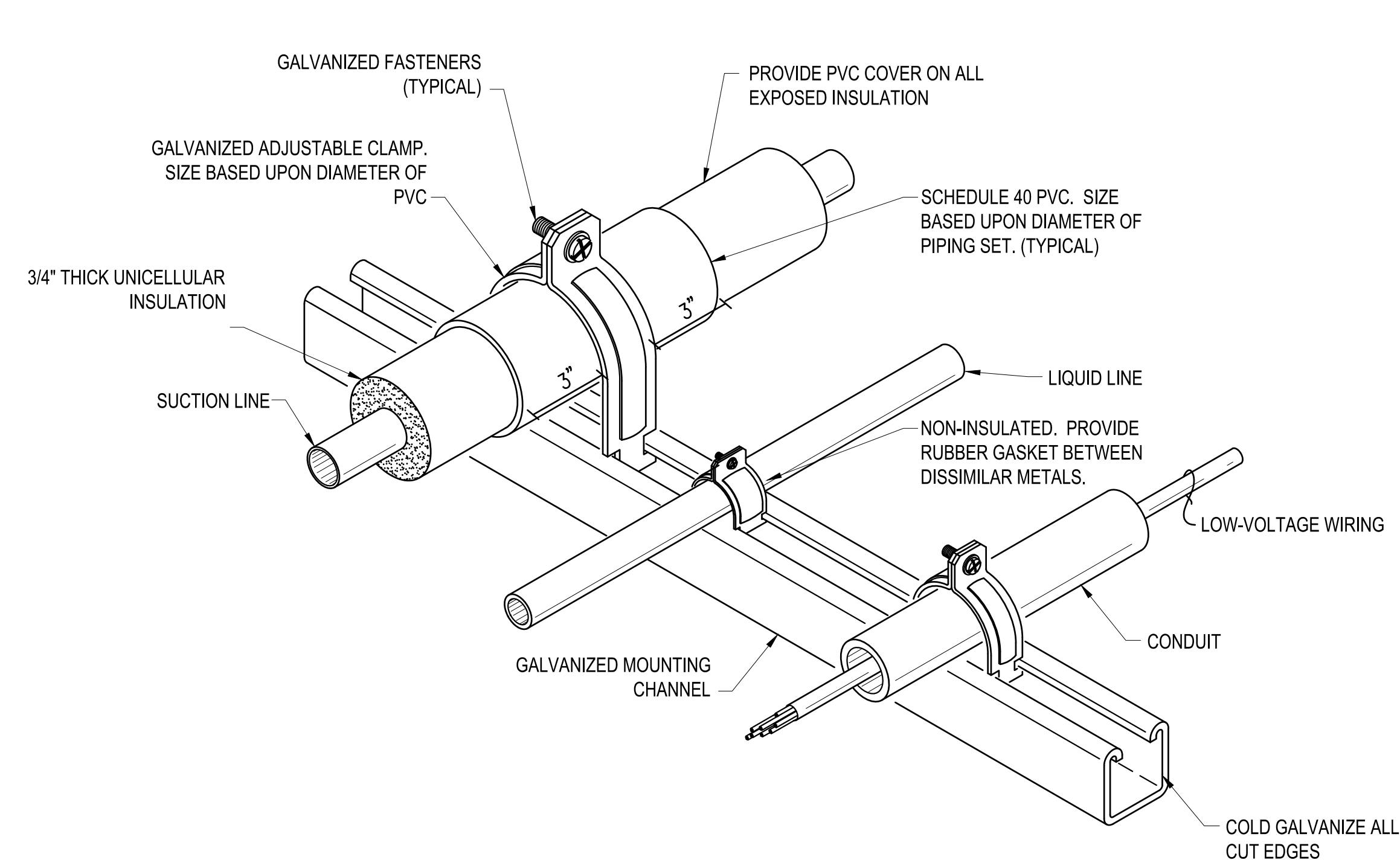
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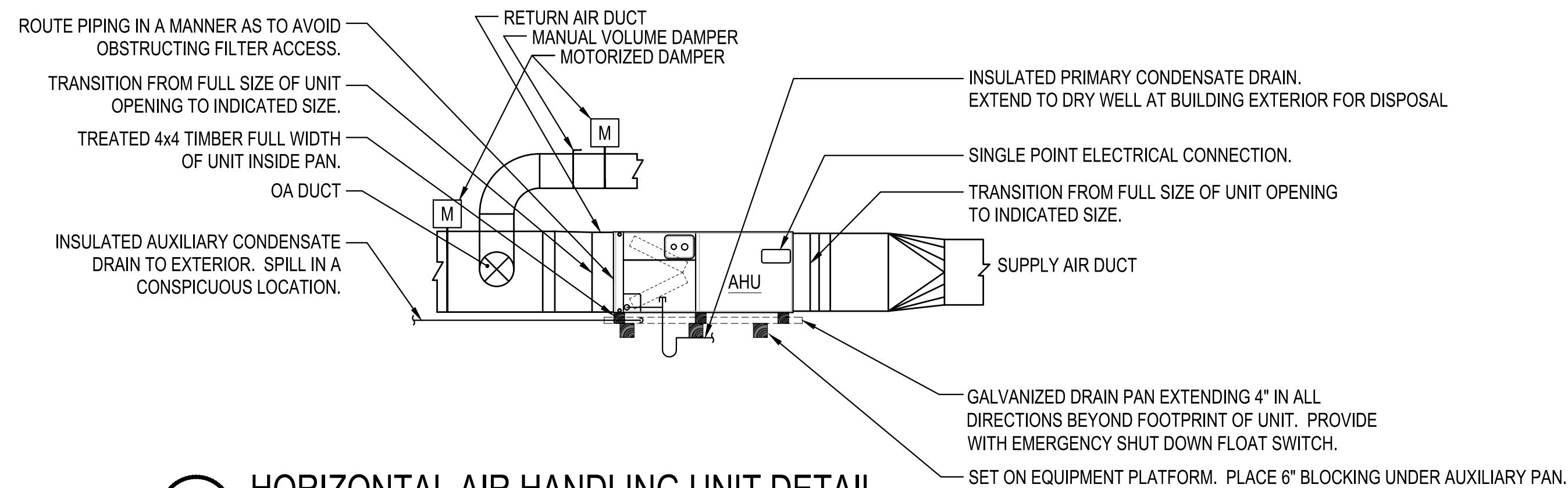
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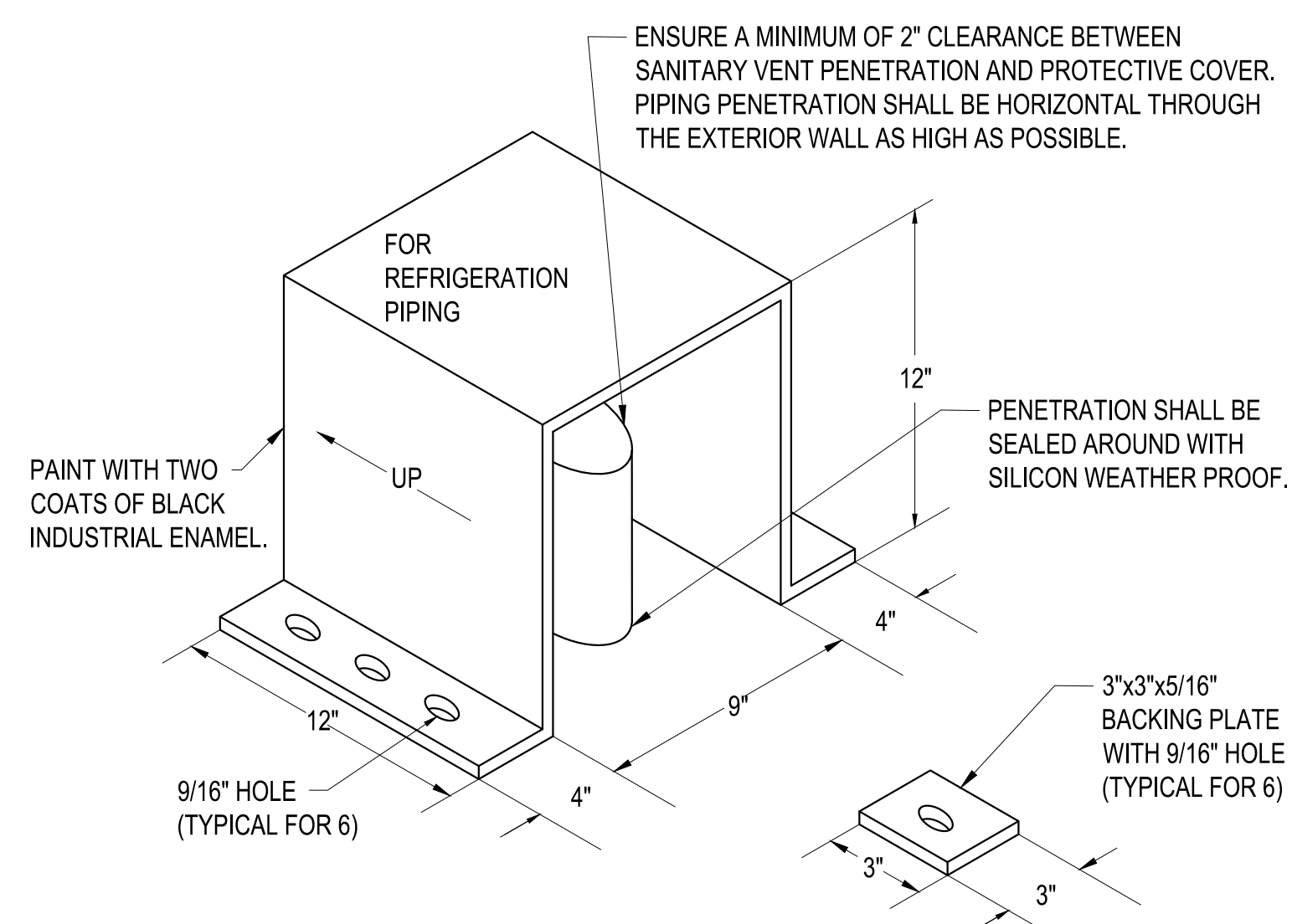
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1 REFRIGERANT PIPE MOUNTING DETAIL
NOT TO SCALE



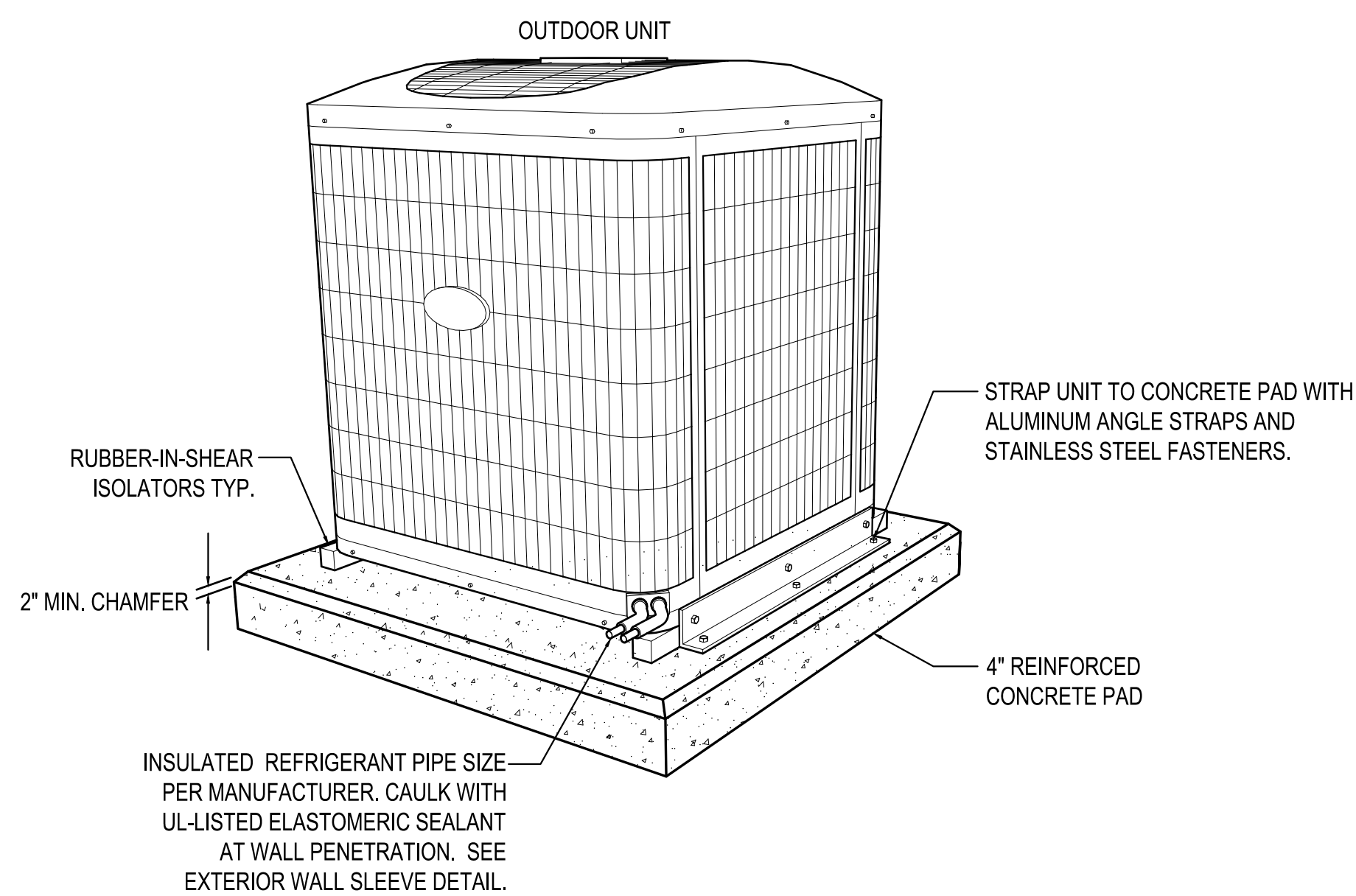
3 HORIZONTAL AIR HANDLING UNIT DETAIL
NOT TO SCALE



NOTE: WALL PENETRATION PROTECTIVE COVER SHALL BE AN ALL WELDED SEAM FABRICATION OF 5/16" CARBON STEEL PLATE. THE ASSEMBLY SHALL BE HELD IN PLACE WITH SIX PIECES OF EMBEDDED 1/2" THREADED ROD WITH 3"x3"x5/16" BACKING PLATES ON THE EXTERIOR OF THE BUILDING WALL FACE. THE THREADED ROD SHALL BE DOUBLE NUTTED. THE PROTECTIVE COVER SHALL BE HOT DIPPED GALVANIZED. THE THREADED ANCHORS SHALL BE 316 STAINLESS STEEL.

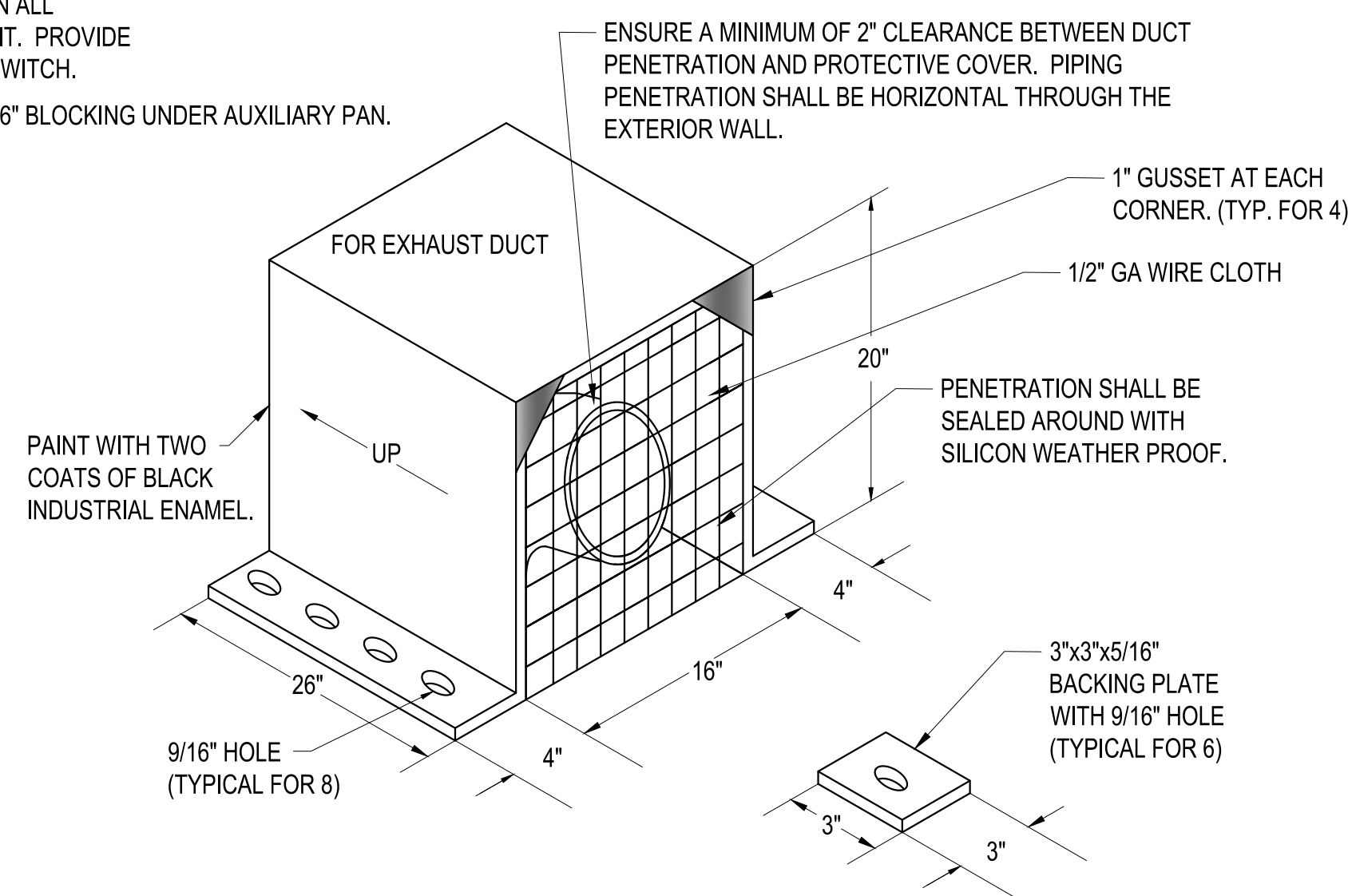
ICC 500 SHELTER WALL PENETRATION PROTECTION DETAIL FOR REFRIGERANT PIPING

5 NOT TO SCALE



NOTE: SECURE UNIT TO PAD. SIZE CONCRETE PAD 6" LARGER THAN UNIT ON ALL SIDES.

2 TYPICAL OUTDOOR UNIT MOUNTING DETAIL
NOT TO SCALE

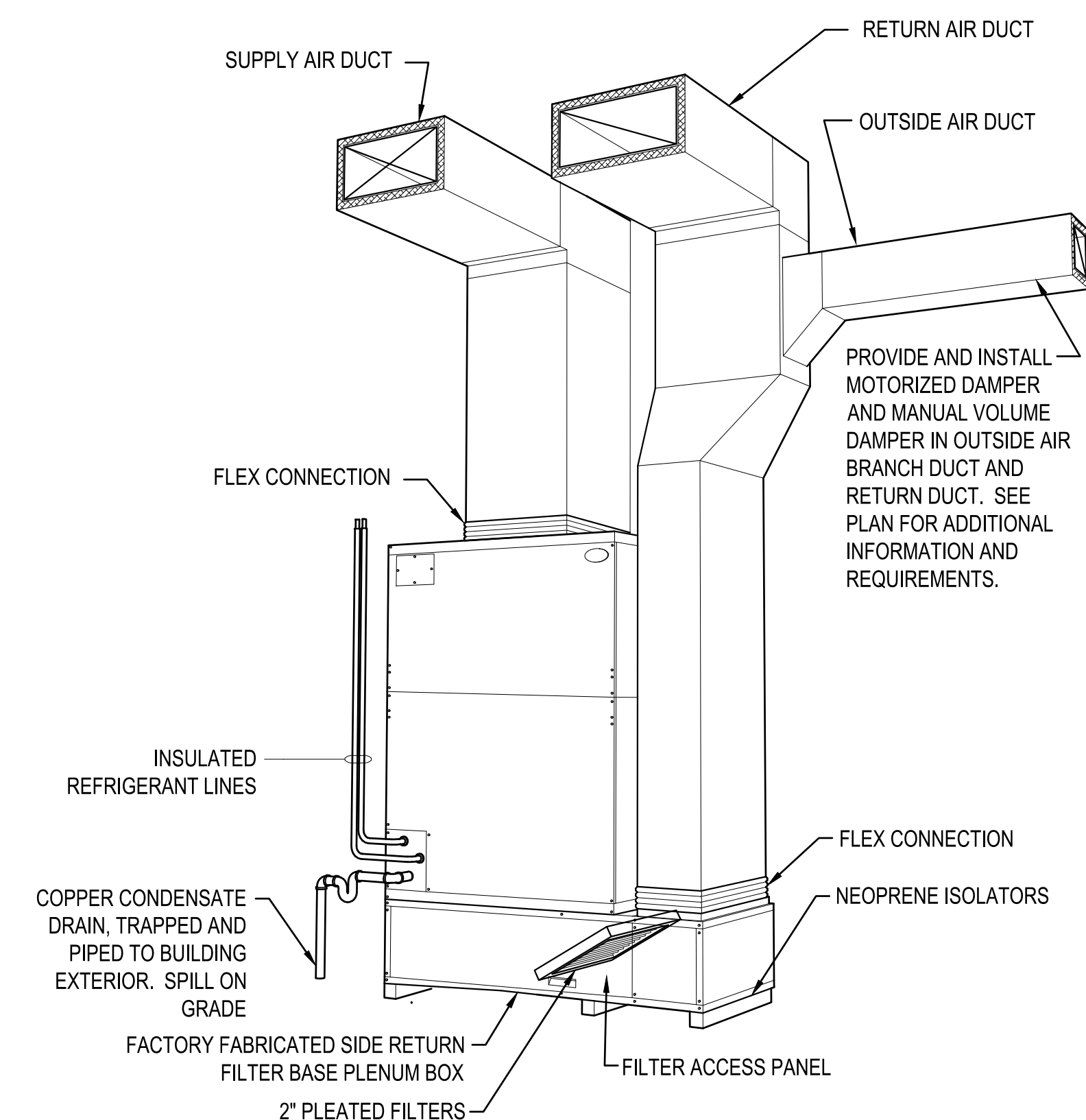


FIELD VERIFY FINAL COVER DIMENSIONS. MAINTAIN A MINIMUM OF 2" CLEAR BETWEEN DUCT AND PROTECTIVE COVER. COVER SHALL BE OPEN ON THE TOP AND BOTTOM.

NOTE: WALL PENETRATION PROTECTIVE COVER SHALL BE AN ALL WELDED SEAM FABRICATION OF 5/16" CARBON STEEL PLATE. THE ASSEMBLY SHALL BE HELD IN PLACE WITH SIX PIECES OF EMBEDDED 1/2" THREADED ROD WITH 3"x3"x5/16" BACKING PLATES ON THE EXTERIOR OF THE BUILDING WALL FACE. THE THREADED ROD SHALL BE DOUBLE NUTTED. THE PROTECTIVE COVER SHALL BE HOT DIPPED GALVANIZED. THE THREADED ANCHORS SHALL BE 316 STAINLESS STEEL.

ICC 500 SHELTER WALL PENETRATION PROTECTION DETAIL FOR EXHAUST DUCT

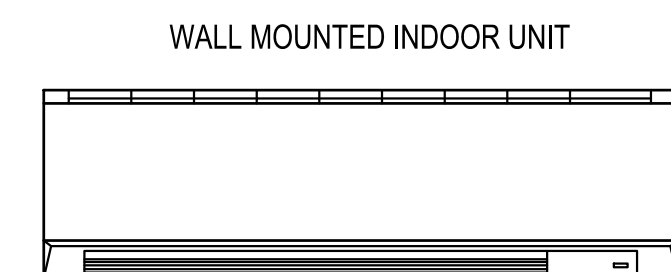
6 NOT TO SCALE



NOTES:
SECURE REFRIGERANT LINES AND CONDENSATE PIPING WITH UNISTRUT.

SIZE COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4". INSULATE CONDENSATE WITH 1/2" FLEXIBLE UNICELLULAR INSULATION.

4 TYP. VERTICAL UPFLOW AHU DETAIL
NOT TO SCALE



NOTE: PROVIDE A WALL MOUNTING BRACKET AT OUTDOOR UNIT. PROVIDE CONDENSATE PUMP AT DSSAH AS NOTED ON DWG.

7 TYPICAL MINI SPLIT AHU & CONDENSING UNIT DETAIL
NOT TO SCALE



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PROJECT NO: 24-027

SHEET NO:

HVAC DETAILS

M4.1

POWER & LIGHTING LEGEND

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

	LIGHT FIXTURE, STRIP, OVERHEAD / WALL MOUNTED.
	LIGHT FIXTURE, STRIP, OVERHEAD / WALL MOUNTED, EMERGENCY.
	LIGHT FIXTURE, 2X2, 1X4, 2X4.
	LIGHT FIXTURE, 2X2, 1X4, 2X4. W/ BATTERY BACKUP.
	EMERGENCY BATTERY PACK FIXTURE, WALL / CEILING MOUNTED.
	LIGHT FIXTURE, OVERHEAD RECESSED, OVERHEAD / WALL MOUNTED.
	LIGHT FIXTURE, OVERHEAD RECESSED, OVERHEAD / WALL MOUNTED. W/ BATTERY BACKUP.
	EXIT SIGN, CEILING/WALL MOUNTED. PROVIDE ARROWS AS INDICATED ON DRAWINGS. W/ BATTERY BACKUP.
	S SINGLE POLE TOGGLE SWITCH, 120/277V, 20A. 3"-10" AFF
	³ / _S / ⁴ / _S THREE-WAY TOGGLE SWITCH/FOUR-WAY TOGGLE SWITCH, 120/277V, 20A. 3"-10" AFF
	MR MOTOR RATED SWITCH, AMPERAGE AS REQUIRED. VERIFY REQUIRED VOLTAGE AND # OF POLES W/ EQUIPMENT
	^{3P} / _S SINGLE POLE, THREE POSITION MOMENTARY CONTACT, 120/277 V, 20A. 3"-10" AFF
	DM DIMMER SWITCH. 120/277V, FLUOR/INC AND AMPERAGE AS REQUIRED. 3"-10" AFF
	K KEYED SWITCH. 120/277V, AMPERAGE AS REQUIRED. 3"-10" AFF
	OS / OS OCCUPANCY SENSOR, 3"-10" AFF WATSTOPPER DW-100 OR EQUAL/ CEILING MTD.
	OS ^{2P} OCCUPANCY SENSOR, 3"-10" AFF, WALL MOUNTED, DUAL RELAY LIGHT AND FAN COMBINATION
	OS ^{2P} / OS ^{2P} OCCUPANCY SENSOR, RELAY/POWER PACK, CONCEALED, ACCESSIBLE.
	S1 LIGHTING CONTROLS, ACUTY nLIGHT WALL POD nPODMA-DX-"FINISH"
	S2 LIGHTING CONTROLS, ACUTY nLIGHT WALL POD nPODMA-2S-"FINISH"
	PC PHOTOCCELL
	PANEL, LIGHTING OR POWER AS SPECIFIED IN PANEL SCHEDULE.
	FUSED DISCONNECT SPECIFY AMP/POLE
	NON-FUSED DISCONNECT SPECIFY AMP/POLE
	Φ SINGLE RECEPTACLE 120/277V, AMPERAGE AS REQUIRED. 1"-6" AFF
	Φ / Φ / Φ DUPLEX/QUAD RECEPTACLE OUTLET, 120/277V, 20A. 1"-6" AFF
	Φ / Φ / Φ DUPLEX/QUAD RECEPTACLE OUTLET, ISOLATED GROUND, 120/277V, 20A. 1"-6"
	Φ / Φ DUPLEX/QUAD RECEPTACLE, FLOOR/CEILING FLUSH MOUNTED. 120/277V, 20A.
	Φ DUPLEX RECEPTACLE, PEDESTAL MOUNT, 120VAC, 20A.
	2-POLE SINGLE RECEPTACLE 240V, AMPERAGE AS REQUIRED.
	TVSS RECEPTACLE DUPLEX RECEPTACLE , 120V, 15A. EQUAL TO PANAMAX MODEL# MW-SURGE.
	Φ SPECIAL PURPOSE RECEPTACLE OUTLET, NEMA CONFIGURATION TO MATCH PLUG. "GF" - GROUND FAULT PROTECTED BY DEVICE OR BREAKER "WP" - WEATHER RATED, GFI PROTECTED WITH WHILE IN USE COVER PLATE
	Φ / Φ / Φ JUNCTION BOX, CEILING/WALL/FLOOR MOUNTED.
	Φ ^P / Φ ^P / Φ ^P POWERED JUNCTION BOX, CEILING/WALL/FLOOR MOUNTED.
	ABOVE GROUND CONDUIT
	UNDERGROUND CONDUIT
	TBB / CBB COMMUNICATIONS, TELEPHONE / COMPUTER BACKBOARD.
	HVAC CONTROLS, 3"-10" AFF
	TIME CLOCK.
	LIGHTING CONTRACTOR, MECHANICALLY OR ELECTRICALLY HELD AND NO. OF POLES AS INDICATED.

ELECTRICAL ABBREVIATIONS

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

AB	ABOVE	MAX	MAXIMUM
AC	ALTERNATING CURRENT	MCB	MAIN CIRCUIT BREAKER
A/C	AIR CONDITIONING	MCC	MOTOR CONTROL CENTER
AFC	ABOVE FINISH CEILING	MCM	1000 CIRCULAR MILS
AFF	ABOVE FINISH FLOOR	MECH	MECHANICAL
AFG	ABOVE FINISH GRADE	MH	MANHOLE
AIC	AMPERE INTERRUPTING CAPACITY	MIN	MINIMUM
ALUM	ALUMINUM	MISC	MISCELLANEOUS
APPROX	APPROXIMATE(LY)	MLO	MAIN LUGS ONLY
ARCH	ARCHITECT(URAL)	MFR	MANUFACTURER
ATS	AUTOMATIC TRANSFER SWITCH	MTD	MOUNTED
AUX	AUXILIARY	MTG	MOUNTING
AWG	AMERICAN WIRE GAGE	MTS	MANUAL TRANSFER SWITCH
BB	BACKBOARD	N	NEUTRAL
BKR	BREAKER	NA	NOT APPLICABLE
BLDG	BUILDING	N.C.	NORMALLY CLOSED
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CABIN	CABINET	NEC	NATIONAL ELECTRICAL MANUFACTURER'S ASSO.
CIR	CIRCUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CLG	CEILING	N.I.C.	NOT IN CONTRACT
CON	CONTROL	NL	NIGHT LIGHT
CT	CURRENT TRANSFORMER	N.O.	NORMALLY OPEN
CTV	CABLE TELEVISION	NO. OR #	NUMBER
CUP	COPPER	OD	OUTSIDE DIAMETER
DB	COLD WATER PIPE	P	POLE
DC	DIRECT BURIAL	PF	POWER FACTOR
DEG	DIRECT CURRENT	PH OR Δ	PHASE
DETD	DEGREE	PMS	PAD MOUNTED SWITCH
DIR	DUAL ELEMENT TIME DELAY	PMT	PAD MOUNTED TRANSFORMER
DISC	DISCONNECT SWITCH	PNL	PANEL
DN	DOWN	PRI	PRIMARY
DPSL	GARBAGE DISPOSAL	PROVIDE	FURNISH AND INSTALL
DPST	DOUBLE POLE - SINGLE THROW	POT	POTENTIAL TRANSFORMER
DPDT	DOUBLE POLE - DOUBLE THROW	PVC	POLYVINYL CHLORIDE
DITXMR	DRY TYPE TRANSFORMER	PW	PART WINDING
DW	DISHWASHER	REF	REFERENCE
EA	EACH	REQ	REQUIRED
EXH	EXHAUST	RLA	RATED LOAD AMPERES
EM	EMERGENCY	RM	ROOM
EMT	ELECTRICAL METALLIC TUBING	RNC	RIGID NONMETALLIC CONDUIT
EP	EXPLOSION PROOF	RNG	ELECTRICAL RANGE
EQUIP	EQUIPMENT	REF	REFRIGERATOR
ER	EXISTING, REMOVE.	RHT	RAIN TIGHT
EW	ELECTRIC WATER COOLER	SCCR	SHORT CIRCUIT CURRENT RATING
EX	EXISTING, REPLACE WITH NEW	SCH	SCHEDULE
F	FUSE	SD	SOFT DRAWN
FLUSH	FLUSH MTG	SE	SERVICE ENTRANCE
FA	FIRE ALARM	SEC	SECONDARY
FIN	FINISHED	SH	SHEET
FLR	FLOOR	SI	INTERNATIONAL SYSTEM OF UNITS
FLA	FULL LOAD AMPERES	SLD	SINGLE LINE DIAGRAM
FMC	FLEXIBLE METAL CONDUIT	SMR	SURFACE METALLIC RACEWAY
GA	GAUGE	SN	SOLID NEUTRAL
GALV	GALVANIZED	SPECS	SPECIFICATIONS
GF	GROUND FAULT INTERRUPTER	SPDT	SINGLE POLE - DOUBLE THROW
GRC	GALVANIZED RIGID METAL CONDUIT	SPST	SINGLE POLE - SINGLE THROW
GND	GROUND	STS	STATIC TRANSFER SWITCH
HD	HEAVY DUTY	SW	SWITCH
HH	HANDHOLE	SW BD	SWITCH BOARD
HP	HORSEPOWER	SW GR	SWITCHGEAR
HV	HIGH VOLTAGE	TB	TERMINAL BACKBOARD
HVAC	HEATING/VENTILATION/AIR CONDITIONING	TELE	TELEPHONE
HZ	HERTZ (CYCLES PER SECOND)	TEMP	TEMPERATURE
ID	INSIDE DIAMETER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSORS
IG	ISOLATED GROUND	TYP	TYPICAL
IMC	INTERMEDIATE METAL CONDUIT	UL	UNDERWRITER'S LABORATORY
J-BOX	JUNCTION BOX	V	VOLTAGE
k	KILO (1000)	VAC	VOLTS ALTERNATING CURRENT
KCMIL	KILO CIRCULAR MILS	VDC	VOLTS DIRECT CURRENT
kV	KILO VOLTS	VENT	VENTILATION
kVA	KILO VOLT - AMPERES	W	WIRE
kW	KILO WATTS	W/	WITH
LFT	LIQUIDTIGHT FLEXIBLE CONDUIT	WP	WEATHERPROOF
LGT	LIGHT(ING)	WT	WATERTIGHT
LV	LOW VOLTAGE	Z	ZONE
		*	FEET
		*	INCHES

AUXILIARY LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN DRAWINGS.

	FIRE ALARM MANUAL PULL STATION, 3"-10" AFF
	FIRE ALARM STROBE / HORN-STROBE, 7"-6" AFF
	FIRE ALARM STROBE / HORN-STROBE. CEILING MOUNTED.
	FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED.
	FIRE ALARM DUCT-MOUNTED SMOKE DETECTOR W/ SAMPLING TUBE.
	FIRE ALARM REMOTE TEST STATION, 3"-10" AFF
	FIRE ALARM HEAT DETECTOR, CEILING MOUNTED.
	FIRE ALARM AUXILIARY RELAY.
	MONITOR MODULE FOR AUXILIARY CONTROL.
	FIRE ALARM FIRE SPRINKLER SYSTEM VALVE TAMPER SWITCH
	FIRE ALARM FIRE SPRINKLER SYSTEM FLOW SWITCH
	FIRE ALARM CONTROL PANEL.
	FIRE ALARM REMOTE PANEL.
	TELEPHONE/DATA OUTLET AND COVER PLATE. 18" AFF WITH 3/4" C. AGC/UNO
	COMBINATION DATA/TELEPHONE OUTLET AND COVER PLATE. 18" ACC WITH 3/4" TO ACC/UNO
	FLOOR BOX, TWO-GANG WITH ONE DUPLEX RECEPTACLE, TELEPHONE AND DATA OUTLET. FLOOR BOX COVER SHALL BE BRASS WITH HINGED COVERS FOR DEVICES. CABLING BY OTHERS.
	CARD READER. SEE SPECIFICATIONS
	ELECTRIC DOOR STRIKE. COORDINATE WITH DOOR VENDOR. SEE SPECIFICATIONS.
	REQUEST TO EXIT SENSOR. COORDINATE WITH ACCESS CONTROL SYSTEM.
	DOOR RELEASE PUSH BUTTON, EQUAL TO EDWARDS #59 PUSH BUTTON WITH #147 SERIES PLATE. COORDINATE WITH ACCESS CONTROL SYSTEM. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. ROUTE 3/4" TO ACCESS CONTROL HEAD END WITH #18 AWG 1-PAIR CABLE AND TERMINATE.
	SINGLE GANG OUTLET AND COVER PLATE. 10' AFG/AFF WITH 3/4" TO COMM ROOM

ELECTRICAL DESIGNATIONS

	FIXTURE NOTE	TYPE 'A' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP)
	FIXTURE NOTE	TYPE 'A' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP)
	RECEPT NOTE	WALL OUTLET WITH RECEPTACLE NOTED, CONNECT TO CIRCUIT NO. 2 (TYP)
	HOME RUN	HOMERUN (TYP) TO PANEL 'PPA', CONNECT TO CIRCUIT NO.'S "5, 6, & 7" EX: 3#12 (PH), 1#12 (N) & 1#12 GND
	MULTI-CONDUCTOR RUN	MULTI-CONDUCTED RUN (TYP) EX: 3#12 (PH), 1#12 (N) & 1#12 GND
	WIRE DESIGNATION	TIC INDICATES NUMBER OF CONDUCTORS, EX: 3#12 (PH), 1#12 (N) & 1#12 GND

NOTES:

- "NL" DESIGNATION REQUIRES FIXTURE TO BE CONFIGURED FOR ONE LAMP OPERATIONAL AT ALL TIMES.
- ALL CIRCUITS SHALL CONTAIN A GREEN EQUIPMENT GROUNDING CONDUCTOR.
- EQUIPMENT GROUND CONDUCTOR SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:
#12 AWG CIRCUIT - #12 GND
#10 AWG CIRCUIT - #10 GND
8 AWG CIRCUIT - #10 GND
- UNLESS OTHERWISE INDICATED, CONDUIT SIZE SHALL BE 3/4" MIN. AND SHALL NOT EXCEED A FILL OF 40% MAXIMUM, SEE NEC.

# OF CIRCUIT CONDUCTORS	#	& 1#_GND - _C	SIZE OF CONDUIT
SIZE OF CIRCUIT CONDUCTORS "AWG"			SIZE OF GROUNDING CONDUCTOR "AWG"

ELECTRICAL NOTES

- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
- ALL WORK SHALL COMPLY WITH IBC 2021, NEC 2020, STATE AND LOCAL CODES. VERIFY WITH AUTHORITY HAVING JURISDICTION AND COMPLY AS REQUIRED.
- OMISSIONS OR MISDESCRIPTION OF DETAILS OF WORK WHICH ARE EVIDENTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMISSIONS AND DETAILS OF WORK, BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH & DESCRIBED.
- EQUIPMENT, MATERIALS, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
- MATERIALS AND ALL COMPONENTS THEREOF SHALL BE NEW AND SHALL BE UL APPROVED WHERE A STANDARD HAS BEEN ESTABLISHED. COMPONENTS SHALL BE EQUAL TO THOSE SCHEDULED ON DRAWINGS.
- ALL RACEWAY EXPOSED ON THE EXTERIOR SHALL BE RIGID GALVANIZED STEEL "RGS" OR "IMC". EXIT SHALL NOT BE ACCEPTABLE. COORDINATE WITH ARCHITECT IF FINISH PAINTING SHALL BE REQUIRED.
- VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
- ALL EXIT AND EMERGENCY LIGHTS SHALL BE UNSWITCHED AND SHALL BE SERVED FROM THE SAME CIRCUIT AS THE GENERAL LIGHTING IN THE SAME AREA U.N.O.
- ALL ELECTRICAL PANELS SHALL HAVE ENGRAVED LAMINATED (BLACK ON WHITE) LABELS IDENTIFYING THEM AS INDICATED ON DRAWINGS.
- ENSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER IBC, ANY APPLICABLE UL ASSEMBLIES, AND THE SPECIFICATIONS.
- ALL COMPONENTS USED IN PLENUM SPACES SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL AND SHALL BE RATED FOR INSTALLATION IN PLENUM SPACES.
- COLOR OF WIRING DEVICES AND PLATES SHALL BE AS SELECTED BY THE ARCHITECT. IF METAL DEVICE PLATES ARE USED, THEN DEVICE SHALL BE MOUNTED IN ORIENTATION WHERE GROUND PIN IS UP.
- COORDINATE LAYOUT CAREFULLY WITH SYSTEMS FURNITURE AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGHING IN POWER AND COMMUNICATIONS OUTLETS TO ENSURE PROPER ORIENTATION OF OUTLETS WITH COMPONENTS OF THESE SYSTEMS.
- CONDUCTOR SIZES INDICATED ON THE DRAWINGS HAVE BEEN SELECTED TO PROVIDE FOR ACCEPTABLE VOLTAGE DROP. DO NOT REDUCE WIRE SIZES SHOWN WITHOUT CONSENT OF ENGINEER.
- CONDUCTORS SHALL BE SINGLE CONDUCTOR COPPER, STRANDED FOR AWG #8 AND LARGER AND SOLID FOR AWG #10 AND SMALLER, WITH 600 VOLT THIN INSULATION.
- ALL CONDUCTORS SHALL BE INSTALLED IN METALLIC CONDUIT. PVC SCHEDULE 40, MAY BE INSTALLED BELOW GRADE WITH TRANSITIONS TO PVC SCH 80 IF CONCEALED WALL OR "RGS" IF EXPOSED ABOVE GRADE.
- THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
- TELECOM OUTLETS WHERE INSTALLED ADJACENT TO RECEPTACLE OUTLETS, SHALL HAVE UNIFORM SPACING BETWEEN RESPECTIVE DEVICES. E.C. SHALL UTILIZE MOUNTING PROVISIONS BETWEEN STUDS, IF REQUIRED, TO MAINTAIN THIS REQUIREMENT.

FIRE ALARM SYSTEM NOTES:

- THE FIRE ALARM SYSTEM SHALL BE A COMPLETE AND SUPERVISED DETECTION AND ALARM SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH SPECIFICATIONS.
- THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. PER IFC 907.7.5.1, AN AUTOMATIC TELEPHONE DIALING DEVICE USED TO TRANSMIT AN EMERGENCY ALARM SHALL NOT BE CONNECTED TO ANY FIRE DEPARTMENT TELEPHONE NUMBER UNLESS APPROVED BY THE FIRE CHIEF.
- INSTALLATION SHALL COMPLY WITH IBC 2021, NEC 2020, NFPA 72, FACTORY MUTUAL ENGINEERING AND RESEARCH (FM), UL AND LOCAL FIRE MARSHALL REQUIREMENTS.
- ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC. SHALL BE GROUNDED.
- DUCT DETECTORS SHALL BE PROVIDED BY E.C. AS PART OF THE F/A EQUIPMENT PACKAGE. INSTALLATION OF DUCT DETECTOR, SAMPLING TUBES AND CORRESPONDING FAN SHUTDOWN CONTROL WIRING SHALL BE BY MECHANICAL.
- IN GENERAL, THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR THE SYSTEM SPECIFIED AND AS FOLLOWS:

POWER, 120VAC, #12 AWG
NOTIFICATION APPLIANCE CIRCUITS (NAC), 24VDC, #14 AWG, NFPA 72 STYLE 2 (CLASS B)
SIGNALLING LINE CIRCUIT (SLC), 24VDC, STYLE 5 (CLASS B)

ALL CLASS 'A' CIRCUITS SHALL BE INSTALLED SUCH THAT THE OUTGOING AND RETURN CONDUCTORS, EXITING FROM AND RETURNING TO THE CONTROL UNIT RESPECTIVELY, ARE ROUTED SEPARATELY AND NOT ROUTED THROUGH THE SAME CABLE OR RACEWAY. A LOOP CIRCUIT SYSTEM SHALL BE UTILIZED.
- ALL WIRING SHALL BE IN A COMPLETE CONDUIT SYSTEM, SIZED IN ACCORDANCE WITH NFPA 70 (NEC). JB COVERPLATES SHALL BE RED IN COLOR. PERMANENT MARKER IDENTIFICATION NOTES SHALL BE WRITTEN INSIDE JB FOR ZONE OR ADDRESS OF DEVICE. INSTALLATION SHALL COMPLY WITH SPECIFICATIONS.
- ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE OBTAINED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
- E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR, FIRE ALARM CONTRACTOR AND FIRE MARSHALL ALL REQUIRED INSPECTIONS.
- A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.



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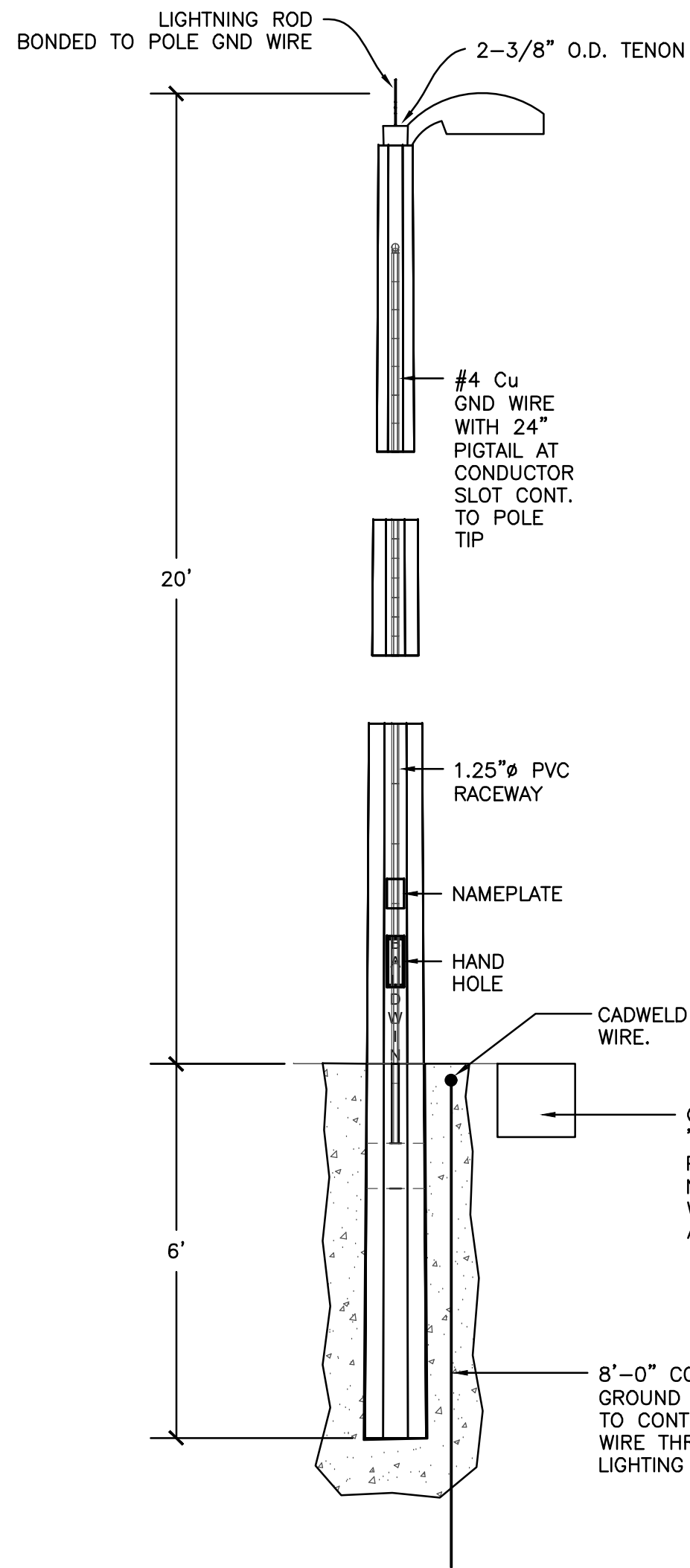
ISSUE	DATE	DESCRIPTION
1.	10/10/25	BID DOCUMENTS

THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027

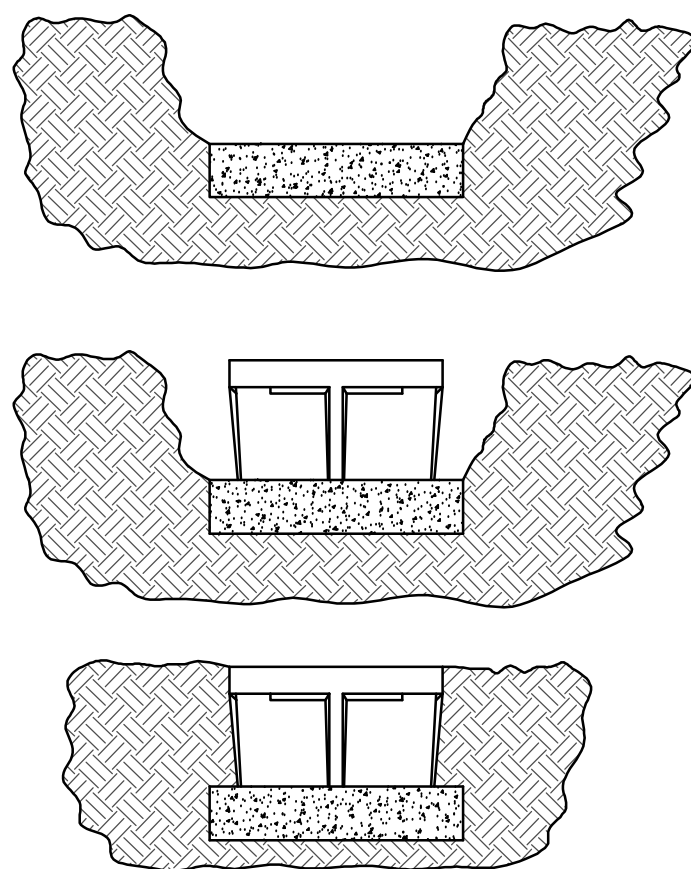
SHEET NO:
ELECTRICAL
NOTES &
LEGEND
E100

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2
DIRECT BURIAL POLE DETAIL
ES101

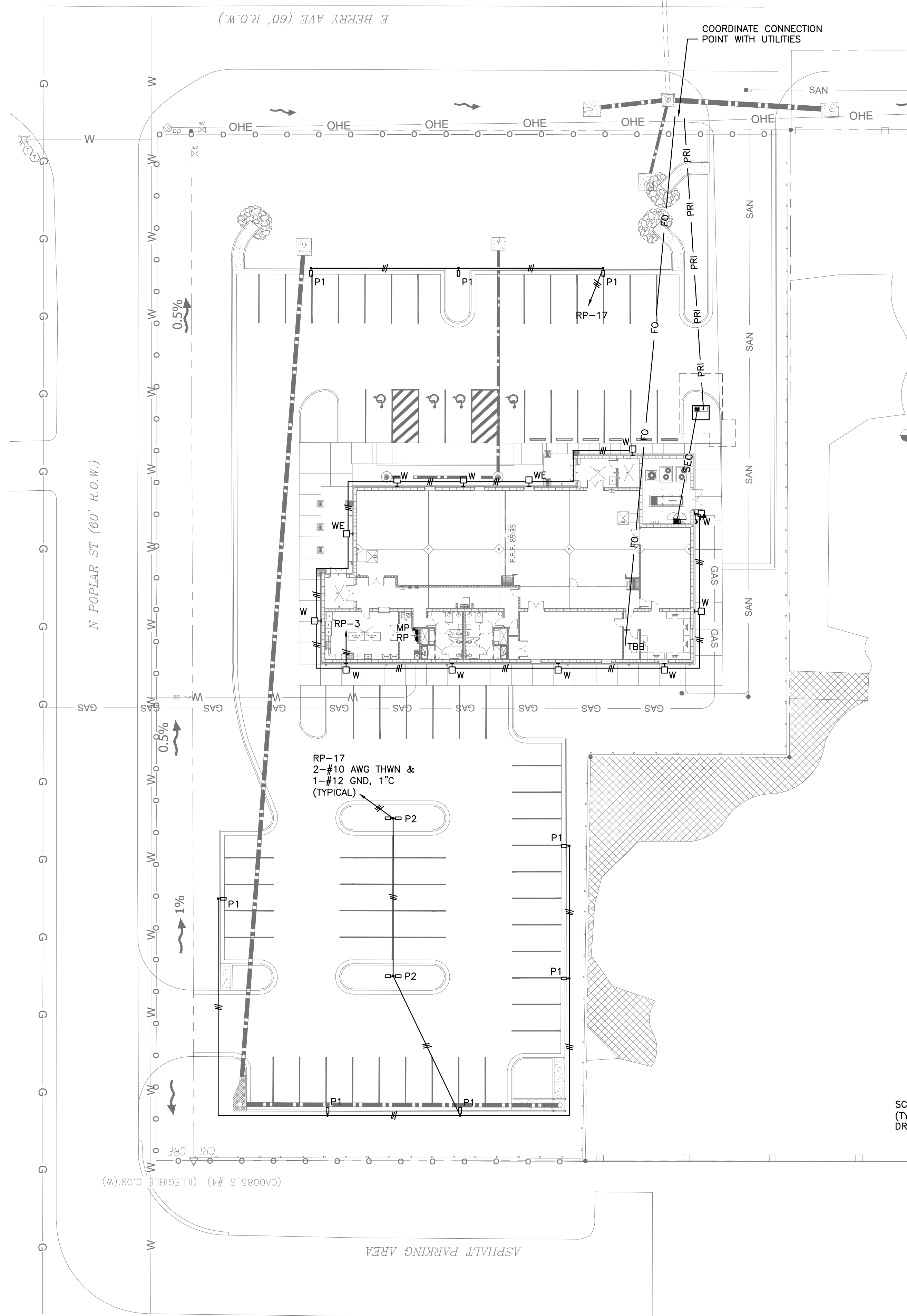
BALDWIN POLE SPECIFICATIONS:
TIP: 6"
BUTT: 10"
TAPER: 125 IN/FT
WEIGHT: 1,726 LBS
CONCRETE: 9,500 PSI, 28 DAY
FINISH: FORM (SMOOTH)
COLOR: NATURAL GREY



- STEP 1: PREPARE THE EXCAVATION APPROXIMATELY 6 INCHES DEEPER THAN THE DEPTH OF THE BOX, THEN ADD 6 TO 8 INCHES GRAVEL OR CRUSHED ROCK FOR DRAINAGE.
- STEP 2: PLACE BOX IN HOLE WITH TOP AT GRADE LEVEL.
- STEP 3: FILL AND COMPACT SOIL TO GRADE LEVEL WITH COVER IN BOX.
- STEP 4: IF GRADE LEVEL IS RAISED LATER (THRU LANDSCAPING, ETC.) A STRAIGHT SIDED BOX CAN BE PULLED UP AND BRICKED AT THE BOTTOM FROM THE INSIDE ON ONE OR FOUR SIDES TO CONFORM TO THE LANDSCAPING.

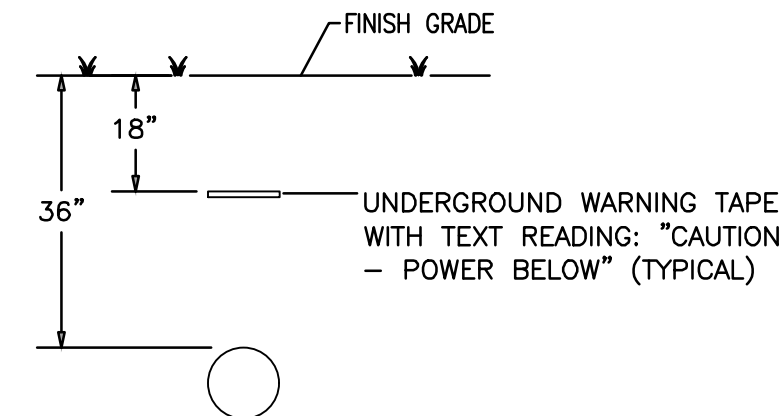
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IN-GROUND JUNCTION BOX DETAIL
ES101

SCALE: NONE



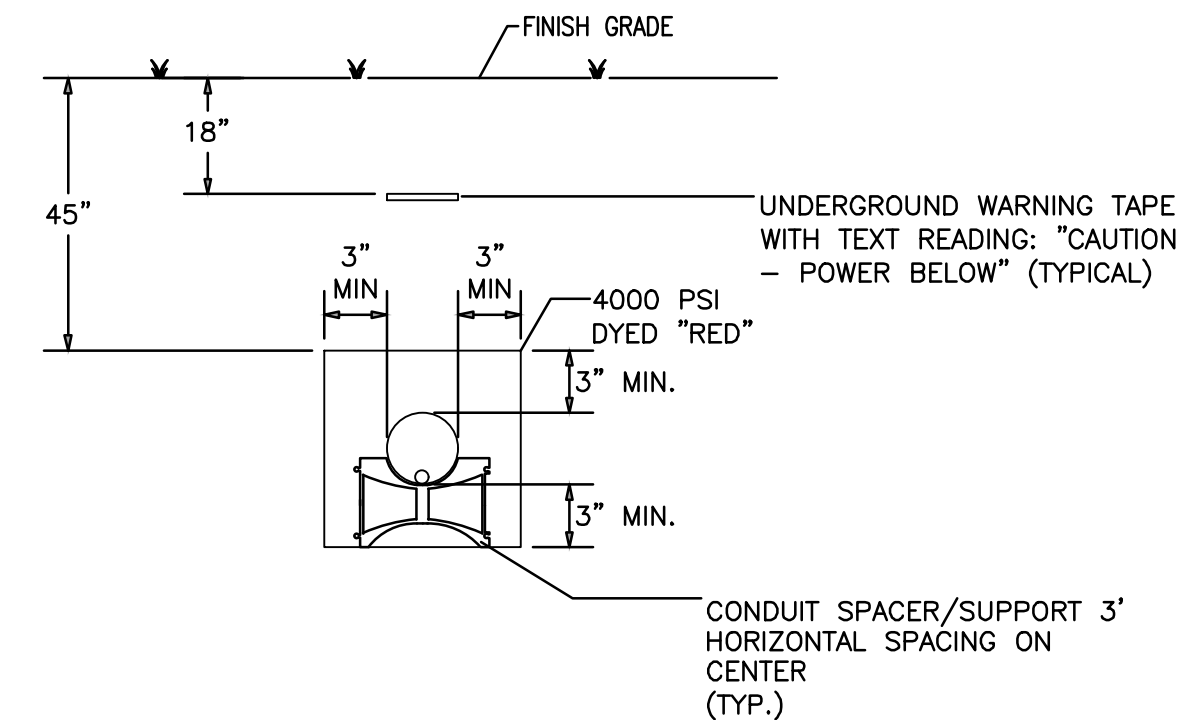
1
SITE PLAN
ES101

SCALE: 1" = 25'-0"



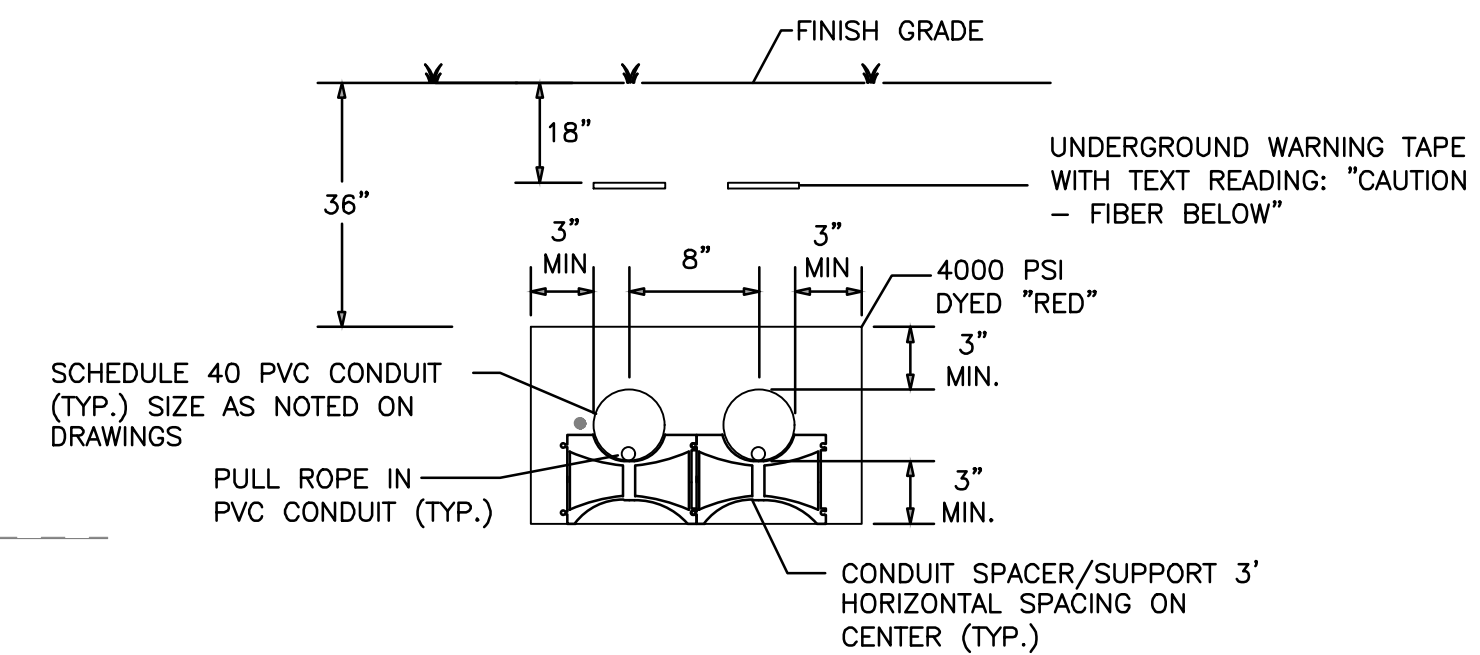
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SECONDARY POWER DUCT BANK DETAIL
ES101

SCALE: NONE



5
PRIMARY POWER DUCT BANK DETAIL
ES101

SCALE: NONE

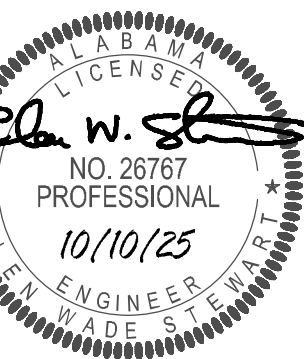


6
COMMUNICATION DUCT BANK DETAIL
ES101

SCALE: NONE

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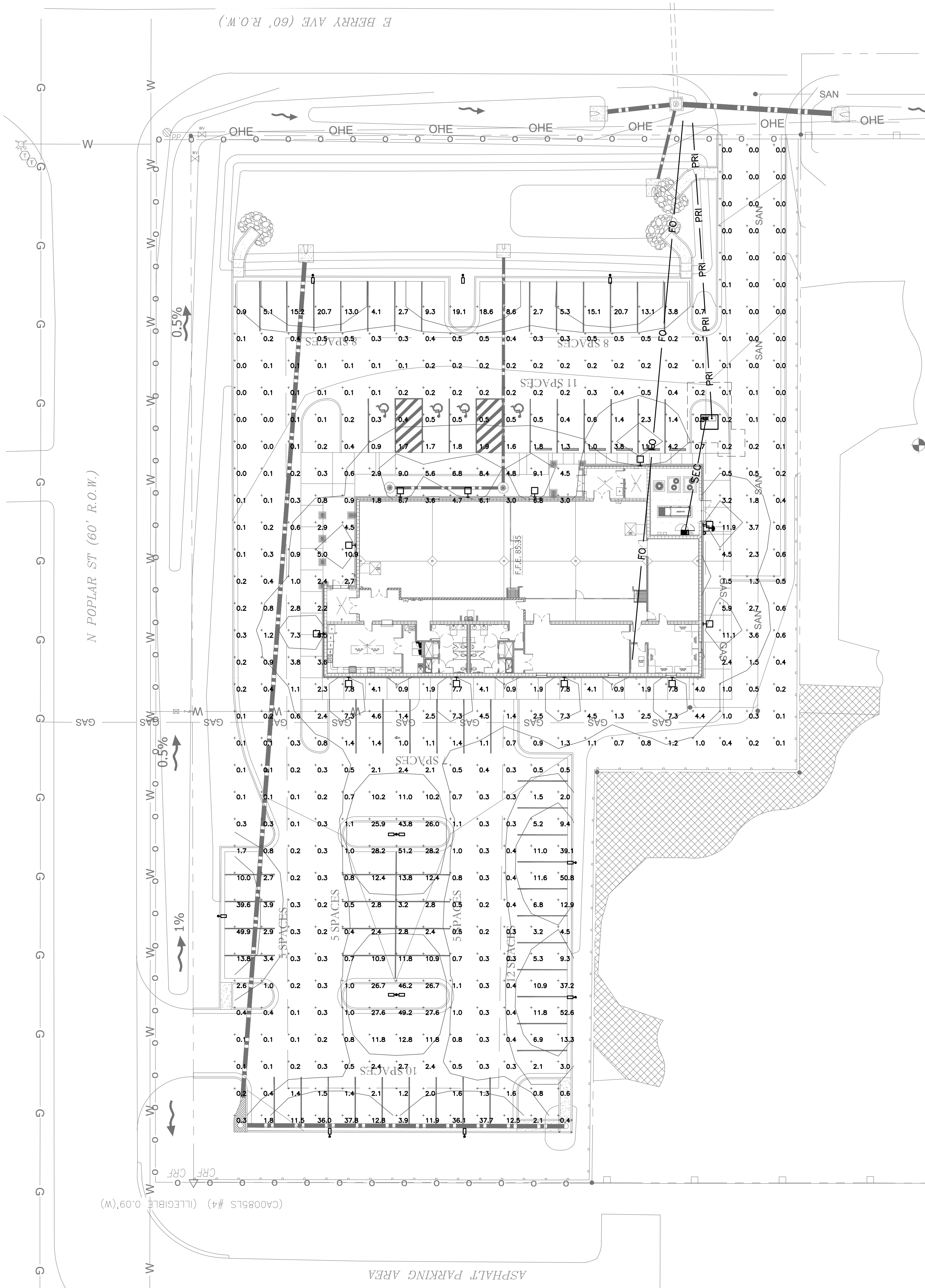
SITE
PLAN

ES101

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Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	
Calc Zone #1	+	4.0 fc	52.6 fc	0.0 fc	N/A	N/A	

Schedule										
Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
	W		12	Lithonia Lighting	ARC2 LED P4 40K	ARC2 LED WITH P4 - PERFORMANCE PACKAGE, 4000K	1	4124	0.9	29.4252
	P1		8	Lithonia Lighting	RSX2 LED P2 40K AFR	RSX Area Fixture Size 2 P2 Lumen Package 4000K CCT Type AFR Distribution		17239	0.9	114.07
	P2		2	Lithonia Lighting	RSX2 LED P2 40K AFR	RSX Area Fixture Size 2 P2 Lumen Package 4000K CCT Type AFR Distribution		17239	0.9	228.14



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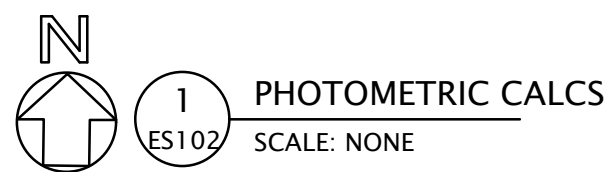
ISSUE	DATE	DESCRIPTION
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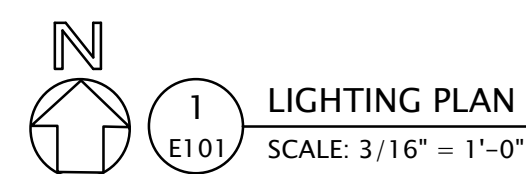
THE CITY OF FOLEY
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PROJECT NO: 24-027

SHEET NO:
PHOTOMETRIC
CALCS

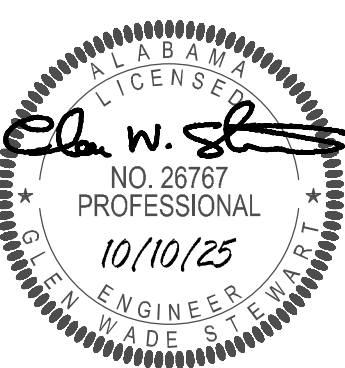
ES102





GENERAL NOTES (THIS SHEET ONLY)

1. ALL LIGHTING FIXTURES ARE SURFACE MOUNTED TO CEILING.
2. ALL BRANCH CONDUITS SHALL BE ROUTED CONCEALED IN WALLS AND LIGHT WEIGHT DECK CEILING. COORDINATE WITH GC.
3. ALL WALL AND CEILING LIGHTING CONTROLS SHALL BE FLUSH MOUNTED.



SUE	DATE	DESCRIPTION
1.	10.10.25	BID DOCUMENTS

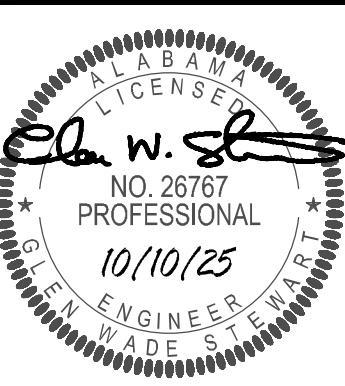
THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027

SHEET NO:

LIGHTING PLAN

E101



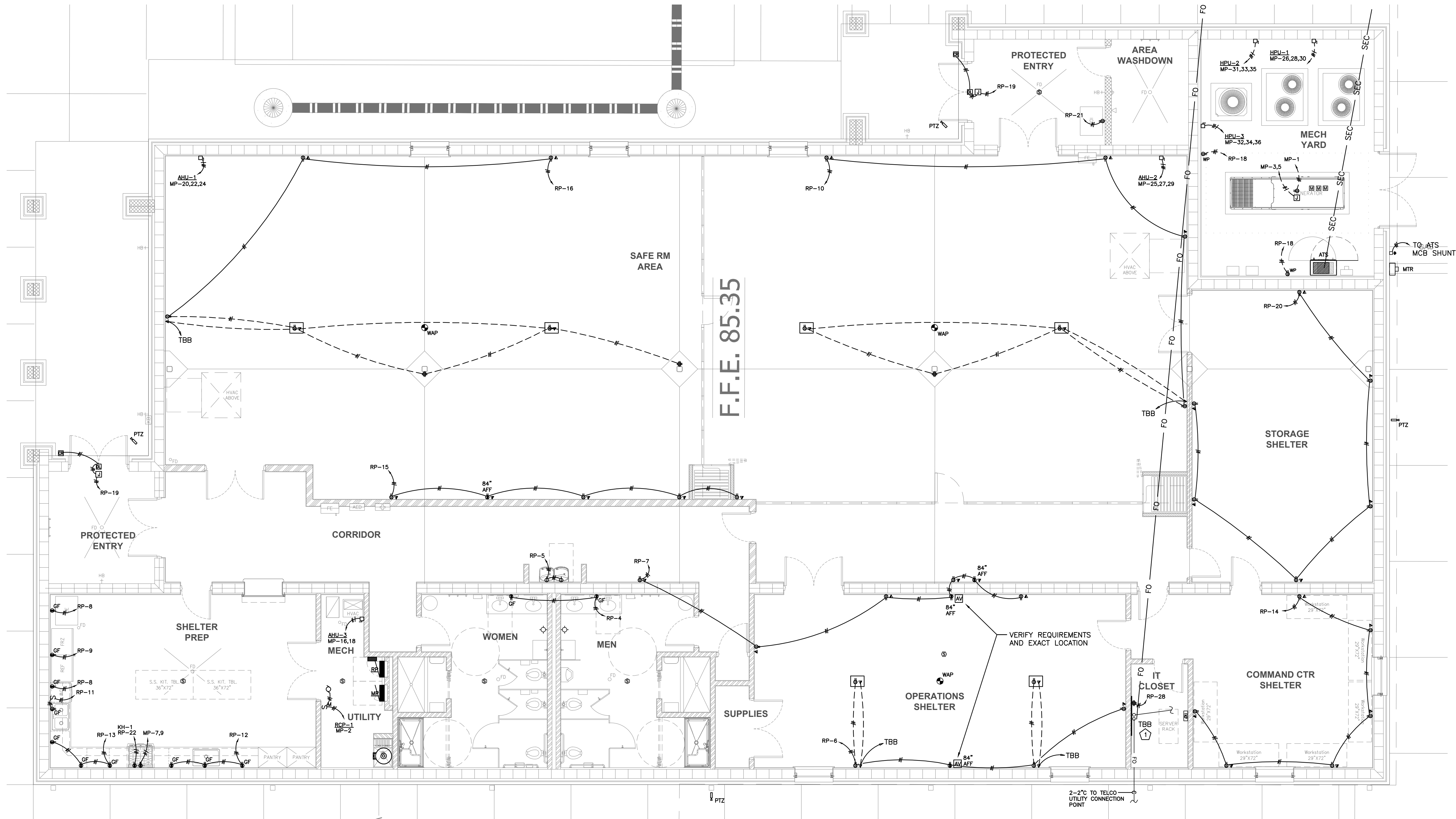
ISSUE	DATE	DESCRIPTION
1.	10/10/25	BID DOCUMENTS

THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027

SHEET NO:

POWER &
AUXILIARY
PLAN
E102



- M:\Adams Stewart\FEMA Shelters\Foley Hur Shelter\102225 Foley FRHS ELEC.dwg



**STEWART ENGINEERING
AND CONSTRUCTION**
40680 STATE HWY 59
BAY MINETTE, ALABAMA 36507
(251) 937-6313 (251) 937-1782 Fax
wstewart@stewartengineering.net

PANEL MP													
VOLTAGE (L-N):				120		ENCLOSURE TYPE:				NEMA 1			
VOLTAGE (L-L):				208		MOUNTING:				SURFACE			
PHASES, WIRES:				3 ϕ 4 W		A/C RATING (A):				35000			
MINIMUM BUS CAPACITY (A):				400 A		NOTES:				INTEGRAL BUSS MTD. SPD 250KA/PHASE			
MAIN O.C. DEVICE (A):				400 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO
				A		B		C					
1	GEN. BATTERY CHARGER	20	1	200	150					1	20	RCP-1	2
3,5	GEN. BLOCK HEATER	20	2			200	0			2	50	SPARE	4,6
3,5	GEN. BLOCK HEATER	20	2					200	0	2	50	SPARE	4,6
7,9	RANGE	50	2	3000	0					2	30	SPARE	8,10
7,9	RANGE	50	2			3000	0			2	30	SPARE	8,10
11,13	VHP-1	20	2					0	2000	2	30	GRINDER PUMP	12,14
11,13	VHP-1	20	2	0	2000					2	30	GRINDER PUMP	12,14
15,17	SPARE	20	2			0	8214			2	50	AHU-3	16,18
15,17	SPARE	20	2					0	8214	2	50	AHU-3	16,18
19,21,23	SPARE	20	3	0	8779					3	80	AHU-1	20,22,24
19,21,23	SPARE	20	3			0	8778			3	80	AHU-1	20,22,24
19,21,23	SPARE	20	3					0	8778	3	80	AHU-1	20,22,24
25,27,29	AHU-2	80	3	8779	4443					3	60	HP-1	26,28,30
25,27,29	AHU-2	80	3			8778	4443			3	60	HP-1	26,28,30
25,27,29	AHU-2	80	3					8778	4443	3	60	HP-1	26,28,30
31,33,35	HP-2	60	3	4443	2582					3	35	HP-3	32,34,36
31,33,35	HP-2	60	3			4443	2582			3	35	HP-3	32,34,36
31,33,35	HP-2	60	3					4443	2582	3	35	HP-3	32,34,36
37,39,41	SPD	30	3	0	9203					3	100	PANEL RP	38,40,42
37,39,41	SPD	30	3			0	8615			3	100	PANEL RP	38,40,42
37,39,41	SPD	30	3					0	4840	3	100	PANEL RP	38,40,42
				CONNECTED LOAD PHASE TOTALS (VA)									
				43579		49053		44278					
				CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD (KVA)		DEMAND LOAD		132.7 KVA	
				(KVA)						SPARE CAPACITY		11.4 KVA	
				10.0		1.00		10.0		SPARE CAPACITY		31.7 AMPS	
				9.6		0.50		4.8		SPARE CAPACITY		8%	
				69.5		1.00		69.5		PHASE BALANCE			
				2.9		1.25		3.6		A TO B		89%	
				0.2		1.25		0.2		B TO C		90%	
				0.4		1.00		0.4		C TO A		98%	
				4.0		1.25		5.0					
				34.4		1.00		34.4					
				6.0		0.80		4.8					
				0.0		1.00		0.0					
				TOTAL:		136.9		132.7					
				LOAD (AMPS):		380.0		368.3					
				RECEPTACLES (0 - 10 KVA)		10.0		10.0					
				RECEPTACLES (OVER 10 KVA)		9.6		4.8					
				HEATING		69.5		69.5					
				LIGHTING		2.9		3.6					
				LIGHTING - Exterior		0.2		0.2					
				Motors		0.4		0.4					
				Motors (Largest)		4.0		5.0					
				Cooling and Heating		34.4		34.4					
				Electric Ranges - 3.5 kW to 8.75 kW		6.0		4.8					
				Equipment		0.0		0.0					

PANEL RP															
VOLTAGE (L-N):				120				ENCLOSURE TYPE:				NEMA 1			
VOLTAGE (L-L):				208				MOUNTING:				SURFACE			
PHASES, WIRES:				3 ϕ 4 W				A/C RATING (A):				10000			
MINIMUM BUS CAPACITY (A):				100 A				NOTES:				-----			
MAIN O.C. DEVICE (A):				100 A											
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO		
				A		B		C							
1	LIGHTS	20	1	1648	1435					1	20	LIGHTS	2		
3	LGTS. EXTERIOR	20	1			195	1500			1	20	REC. RESTROOMS	4		
5	EW-1 (GF)	20	1					700	1080	1	20	RECEPTACLES	6		
7	RECEPTACLES	20	1	1260	800					1	20	REC. KITCHEN ICE MKR	8		
9	REC. KITCHEN FRIDGE	20	1			400	1260			1	20	REC. SAFE ROOM AREA	10		
11	REC. D/W & G/D	20	1					800	1900	1	20	REC. KITCHEN APPLIANCE	12		
13	REC. KITCHEN APPLIANCE	20	1	1900	1080					1	20	REC. POLICE	14		
15	REC. SAFE ROOM AREA	20	1			900	1260			1	20	REC. SAFE ROOM AREA	16		
17	FACP(LCK-ON)	20	1					0	360	1	20	REC. EXTERIOR	18		
19	ACCESS CONTROL (LOCK-ON)	20	1	0	1080					1	20	REC. STORAGE	20		
21	ICE MACHINE(GFCI PROTECTED)	25	1			1300	300			1	20	KH-1 HOOD	22		
23	SPARE	20	1					0	0	1	20	SPARE	24		
25	SPARE	20	1	0	0					1	20	SPARE	26		
27	SPARE	20	1			0	1500			1	20	SECURE IT (LOCK ON)	28		
29	SPARE	20	1					0	0	1	20	TBB (LOCK ON)	30		
				CONNECTED LOAD PHASE TOTALS (VA)											
				9203		8615		4840							
				CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD (KVA)		DEMAND LOAD		18.8 KVA			
				(KVA)						SPARE CAPACITY		17.3 KVA			
				10.0		1.00		10.0		SPARE CAPACITY		47.9 AMPS			
				9.4		0.50		4.7		SPARE CAPACITY		48 X			
				2.9		1.25		3.6		PHASE BALANCE					
				0.2		1.25		0.2		A TO B		94 %			
				0.1		1.00		0.1		B TO C		56 %			
				0.1		1.25		0.1		C TO A		53 %			
				0.0		1.00		0.0							
				22.7				18.8							
TOTAL LOAD (AMPS):				62.9				52.1							



Cummins GenSize Report

Project Name: Foley 1st Responder Shelter

Report Generated By: Wade Stewart

Application Type: Public Infrastructure - Emergency Services (Fire, Police)

Comments:

PROJECT PARAMETERS

Frequency (hz):	60.0	Number of Genset to Parallel:	1.0
Duty:	Standby	Ambient Temperature (F):	104.0
Phase:	Three	Altitude (ft):	50.0
Voltage:	120/208, Parallel Wye	Max Allowable Temperature Rise:	150.0
Fuel Type(s):	Propane	Max Allowable Project Voltage Dip (%):	28.0
Emissions Preference:	US Stationary Emergency	Max Allowable Project Frequency Dip (%):	10.0
Country:	United States		
Min Load Capacity (%):	30.0		
Max Load Capacity (%):	100.0		

RECOMMENDED GENERATOR SET CONFIGURATION

Generator Set Name:	C150N6	B-Code:	B946
Engine Name:	QSJ8.9G-G2	R-Code:	R098
Fuel:	Propane	Number of Leads:	6.0
Cooling System:	UC3G	Reconnectable:	Yes
Alternator Frame:	UC3G	Full Single Phase Output:	No
Alternator Winding:	311.0	Increased Motor Starting:	No
Alternator Excitation:	PMG	Extended Stack:	No
Temperature Rise:	120.0		
Max SkVA:	663.0		

POWER SYSTEM SUMMARY

LOADS AND STEPS

Step Name		Starting		Running		Cyclic Load	NonLinear Load
Step #	Load Name	kW	kVA	kW	kVA		
1	Step 1	68.17	98.45	43.93	50.99		
	General Receptacle Load 1	18.0	20.0	18.0	20.0		
	Largest Motor 1	29.95	53.85	7.03	8.1		Y
	Light Load 1	3.8	4.0	3.8	4.0		
	Misc 1	12.0	15.0	12.0	15.0		
	Motor Load 1	1.42	1.85	0.1	0.14		
	Spare 1	3.0	3.75	3.0	3.75	Y	
2	Step 2	58.91	92.49	34.31	38.4		
	AC Load 1	33.91	64.71	9.31	10.62		
	AHU-1	25.0	27.78	25.0	27.78		
3	Step 3	58.91	92.49	34.31	38.4		
	AC Load 2	33.91	64.71	9.31	10.62		
	AHU-2	25.0	27.78	25.0	27.78		
4	Step 4	34.03	46.99	18.67	21.04		
	AC Load 3	19.03	30.32	3.67	4.37		
	AHU-3	15.0	16.67	15.0	16.67		

Note: Step Starting kW and kVA include all loads marked as cyclical from any prior step. Running kW and kVA assume all cyclical loads start and remain on at their assigned step. Values are total power system, assumed to be shared by paralleled gensets when applicable.

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AHU-1

Load Type: User Defined

User Inputs		Load Requirements	
Phase:	Three	Running PF:	0.90
Voltage:	208.0	Running kW:	25.0
Running kW:	25.0	Running kVA:	27.78
Running kVA:	27.78	Starting PF:	0.9
Starting kW:	25.0	Starting kW:	25.0
Power Factor:	0.9	Running Amps:	77.19
Running Amps:	77.19	Starting kVA:	27.78
Starting kVA:	27.78	Starting Amps:	77.19
Efficiency (%):	100.0		
Rectifier Type:	None		
Running Unit of rating:	KW		
Starting Unit of rating:	KW		

AHU-2

Load Type: User Defined

User Inputs		Load Requirements	
Phase:	Three	Running PF:	0.90
Voltage:	208.0	Running kW:	25.0
Running kW:	25.0	Running kVA:	27.78
Running kVA:	27.78	Starting PF:	0.9
Starting kW:	25.0	Starting kW:	25.0
Power Factor:	0.9	Running Amps:	77.19
Running Amps:	77.19	Starting kVA:	27.78
Starting kVA:	27.78	Starting Amps:	77.19
Efficiency (%):	100.0		
Rectifier Type:	None		
Running Unit of rating:	KW		
Starting Unit of rating:	KW		

AHU-3

Load Type: User Defined

User Inputs		Load Requirements	
Phase:	Three	Running PF:	0.90
Voltage:	208.0	Running kW:	15.0
Running kW:	15.0	Running kVA:	16.67
Running kVA:	16.67	Starting PF:	0.9
Starting kW:	15.0	Starting kW:	15.0
Power Factor:	0.9	Running Amps:	46.32
Running Amps:	46.32	Starting kVA:	16.67
Starting kVA:	16.67	Starting Amps:	46.32
Efficiency (%):	100.0		
Rectifier Type:	None		
Running Unit of rating:	KW		
Starting Unit of rating:	KW		

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CUMULATIVE SUMMARY

Step Name		Starting		Running	
Step #	Step Name	kW	kVA	kW	kVA
1	Step 1	68.17	98.45	43.93	50.99
2	Step 2	102.84	143.48	78.24	89.39
3	Step 3	137.15	181.88	112.55	127.79
4	Step 4	146.58	174.78	131.22	148.83

Effective Project Power Requirements: 135.21

Note: Cumulative Step Starting kW and kVA include all cyclical loads from prior steps. Cumulative Step Running kW and kVA assume all cyclical loads start and remain on at their assigned step. Values reflect the total power system, assumed to be shared by paralleled gensets when applicable.

ESTIMATED PRODUCT PERFORMANCE

PRODUCT CAPACITY

Project Running (kW):	131.22	Project Max Starting(kW):	146.58
Base Product Rating (kW):	150	Project Effective Max Starting(kW):	135.21
Site Adjusted Product Rating (kW):	150	Max Starting kW:	221
Product kW Capacity (%):	87.48	Product Capacity (%):	61.18
Project Running (kVA):	148.83	Total Running Non-Linear kVA:	4
Base Alternator Rating (kVA):	205	Max Allowed(THDV %):	12
Site Adjusted Alternator Rating (kVA):	205	Total Voltage Harmonic Distortion (THDV%):	0.57
Product kVA Capacity (%):	72.6		

Note: Capacity % values are within the user-selected project parameters for product capacity. If the number of generator sets is greater than one, the values here will reflect one generator set assuming the loads are evenly shared.

TRANSIENT PERFORMANCE

Step Name		Voltage		Frequency	
Step #	Step Name	Dip %	Recovery Time	Dip %	Recovery Time
1	Step 1	8.44	1.13	6.08	2.47
2	Step 2	7.14	1.03	5.24	2.3
3	Step 3	7.14	1.03	5.24	2.3
4	Step 4	4.27	0.73	2.99	1.72

Note: Voltage and frequency dips and recovery times are estimates based on measured performance of prototype testing or advanced simulation. Recovery times may be assumed to be based on ISO8528-5 G2 class bandwidths unless otherwise stated in the model Spec Sheet. Typically, best practice may allow for approximately 5 seconds between application of load steps when designing your system. These values are within the user-selected project parameters for max allowable voltage and frequency dip performance.

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Elec Heat

Load Type: User Defined

User Inputs		Load Requirements	
Phase:	Three	Running PF:	0.80
Voltage:	208.0	Running kW:	55.6
Running kW:	55.6	Running kVA:	69.5
Running kVA:	69.5	Starting PF:	0.8
Starting kW:	55.6	Starting kW:	55.6
Power Factor:	0.8	Running Amps:	193.14
Running Amps:	193.14	Starting kVA:	69.5
Starting kVA:	69.5	Starting Amps:	193.14
Efficiency (%):	1.0		
Rectifier Type:	None		
Running Unit of rating:	KVA		
Starting Unit of rating:	KVA		

General Receptacle Load 1

Load Type: General

User Inputs		Load Requirements	
Phase:	Single	Running PF:	0.90
Voltage:	120.0	Running kW:	25.0
Running kW:	18.0	Running kVA:	20.0
Running kVA:	20.0	Starting PF:	0.9
Power Factor:	0.9	Starting kW:	18.0
Running Amps:	166.67	Running Amps:	166.67
Rectifier Type:	None	Starting kVA:	20.00
Unit of Rating:	KVA		

Largest Motor

Load Type: Motor

User Inputs		Load Requirements	
Phase:	Three	Running PF:	0.87
Amps:	149.64	Running kW:	7.03
Voltage:	208.0	Running kVA:	8.1
Shaft HP:	8.04	Starting PF:	0.56
Shaft kW:	6.0	Starting kW:	29.95
Motor Type:	Standard NEMA Design B, C or D	Running Amps:	22.52
Tap Number:	0.8	Starting kVA:	53.85
Load Factor:	100.0	Starting Amps:	149.64
Power Factor:	0.87		
Running Amps:	22.52		
Efficiency (%):	85.33		
Unit of Rating:	KW		
Starting Method:	Across the line		
NEMA Code Letter:	H		
Current Limit (%FLA):	300.0		
Locked Rotor kVA/HP Factor:	6.7		

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ITEMIZED LOAD SUMMARY

AC Load 1

Load Type: AC

User Inputs		Load Requirements	
BTU:	111700.0	Running PF:	0.88
COP:	3.4	Running kW:	9.31
EER:	12.0	Running kVA:	10.62
Motor:	Standard NEMA Design B, C or D	Starting PF:	0.52
Phase:	Three	Starting kW:	33.91
AC Tons:	9.31	Running Amps:	29.52
Voltage:	208.0	Starting kVA:	64.71
Tap Number:	0.8	Starting Amps:	179.84
kW per Ton:	1.0		
Power Factor:	0.88		
Efficiency (%):	86.18		
Unit of Rating:	BTU		
Efficiency Unit:	COP		
Starting Method:	Across the line		
NEMA Letter Code:	G		
Locked Rotor kVA/HP:	5.9		
Current Limit (%FLA):	300.0		

AC Load 2

Load Type: AC

User Inputs		Load Requirements	
BTU:	111700.0	Running PF:	0.88
COP:	3.4	Running kW:	9.31
EER:	12.0	Running kVA:	10.62
Motor:	Standard NEMA Design B, C or D	Starting PF:	0.52
Phase:	Three	Starting kW:	33.91
AC Tons:	9.31	Running Amps:	29.52
Voltage:	208.0	Starting kVA:	64.71
Tap Number:	0.8	Starting Amps:	179.84
kW per Ton:	1.0		
Power Factor:	0.88		
Efficiency (%):	86.18		
Unit of Rating:	BTU		
Efficiency Unit:	COP		
Starting Method:	Across the line		
NEMA Letter Code:	G		
Locked Rotor kVA/HP:	5.9		
Current Limit (%FLA):	300.0		

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Light Load 1

Load Type: Light

User Inputs		Load Requirements	
Phase:	Single	Running PF:	0.95
Voltage:	120.0	Running kW:	3.8
Light type:	LED	Running kVA:	4.00
Running kW:	3.8	Starting PF:	0.95
Running kVA:	4.0	Starting kW:	3.8
Power Factor:	0.95	Running Amps:	33.33
Running Amps:	33.33	Starting kVA:	4.0
Rectifier Type:	LED Driver (EN61000-3-2)	Running NLL kVA:	4.00
Unit of Rating:	KW		
Harmonic Content (THD%):	33.0		

Misc

Load Type: User Defined

User Inputs		Load Requirements	
Phase:	Single	Running PF:	0.80
Voltage:	120.0	Running kW:	12.0
Running kW:	12.0	Running kVA:	15.0
Running kVA:	15.0	Starting PF:	0.8
Power Factor:	0.8	Starting kW:	12.0
Running Amps:	125.0	Running Amps:	125.0
Starting kVA:	15.0	Starting Amps:	125.0
Starting Amps:	125.0		
Efficiency (%):	1.0		
Rectifier Type:	None		
Running Unit of rating:	KW		
Starting Unit of rating:	KW		

Motor Load 1

Load Type: Motor

User Inputs		Load Requirements	
Phase:	Three	Running PF:	0.68
Amps:	5.14	Running kW:	0.1
Voltage:	208.0	Running kVA:	0.14
Shaft HP:	0.16	Starting PF:	0.77
Shaft kW:	0.12	Starting kW:	1.42
Motor Type:	Standard NEMA Design B, C or D	Running Amps:	0.40
Tap Number:	0.8	Starting kVA:	1.85
Load Factor:	100.0	Starting Amps:	5.14
Power Factor:	0.68		
Running Amps:	0.4		
Efficiency (%):	71.73		
Unit of Rating:	Amps		
Starting Method:	Across the line		
NEMA Code Letter:	N		
Current Limit (%FLA):	300.0		
Locked Rotor kVA/HP Factor:	11.85		

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AC Load 3

Load Type: AC

User Inputs		Load Requirements	
BTU:	44090.0	Running PF:	0.84
COP:	3.74	Running kW:	3.67
EER:	12.0	Running kVA:	4.37
Motor:	Standard NEMA Design B, C or D	Starting PF:	0.63
Phase:	Three	Starting kW:	19.03
AC Tons:	3.67	Running Amps:	12.14
Voltage:	208.0	Starting kVA:	30.32
Tap Number:	0.8	Starting Amps:	84.25
kW per Ton:	1.0		
Power Factor:	0.84		
Efficiency (%):	82.89		
Unit of Rating:	BTU		
Efficiency Unit:	COP		
Starting Method:	Across the line		
NEMA Letter Code:	J		
Locked Rotor kVA/HP:	7.54		
Current Limit (%FLA):	300.0		

AC Load 4

Load Type: AC

User Inputs		Load Requirements	
BTU:	120000.0	Running PF:	0.88
COP:	3.52	Running kW:	10.0
EER:	12.0	Running kVA:	11.36
Motor:	Standard NEMA Design B, C or D	Starting PF:	0.52
Phase:	Three	Starting kW:	36.26
AC Tons:	10.0	Running Amps:	31.57
Voltage:	208.0	Starting kVA:	69.74
comments:		Starting Amps:	193.81
Load Cycle:	false	Running NLL kVA:	0.0
Tap Number:	0.8		
kW per Ton:	1.0		
Auto ByPass:	false		
Low Inertia:	false		
Power Factor:	0.88		
Efficiency (%):	0.0		
Rectifier Type:	None		
Unit of Rating:	Tons		
Efficiency Unit:	kW per Ton		
Starting Method:	Across the line		
NEMA Letter Code:	G		
Locked Rotor kVA/HP:	5.9		
Current Limit (%FLA):	0.0		
Harmonic Content (THD%):	0.0		
Variable Drive (Frequency/Speed):	false		



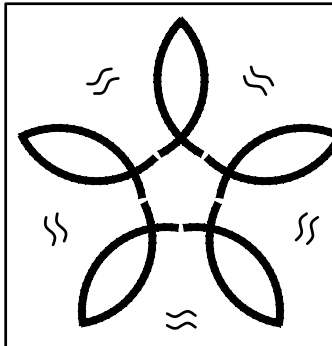
PLUMBING FIXTURE CONNECTION SCHEDULE							
MARK #	FIXTURE TYPE	CONNECTIONS				REMARKS	NOTES
		WASTE	VENT	CW	HW		
P-1	FLUSH VALVE WATER CLOSET	3"	1-1/2"	1"	-	VIT. CHINA, WHITE, 15" HIGH ELONGATED BOWL, FLOOR MOUNTED TOP SPUD FLUSH VALVE TYPE, PROVIDE WITH 1.6 GALLONS PER FLUSH VALVE, AND OPEN FRONT SEAT WITHOUT COVER. FIXTURE EQUAL TO AMERICAN STANDARD 3451.001 AND SLOAN REGAL 111.	
P-1A	FLUSH VALVE WATER CLOSET (HC)	3"	1-1/2"	1"	-	VIT. CHINA, WHITE, 16-1/2" HIGH ELONGATED BOWL, FLOOR MOUNTED TOP SPUD FLUSH VALVE TYPE, PROVIDE WITH 1.6 GALLONS PER FLUSH VALVE, AND OPEN FRONT SEAT WITHOUT COVER. INSTALL PER ADA REQUIREMENTS. PROVIDE WITH HANDLE ON THE APPROACH SIDE OF THE FIXTURE. FIXTURE EQUAL TO AMERICAN STANDARD 3461.001 AND SLOAN REGAL 115	①
P-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	VIT. CHINA, WHITE, DROP-IN LAVATORY. PROVIDE WITH SINGLE LEVER FAUCET, 17 GA, P-TRAP, GRID DRAIN, FLEXIBLE SUPPLIES AND STOPS. PROVIDE WITH ASSE 1070 TEMPERATURE LIMITING VALVE SET FOR 105°F. FIXTURE EQUAL TO AMERICAN STANDARD 0491.019 AND DELTA 22C551.	
P-2A	LAVATORY (HC)	1-1/2"	1-1/2"	1/2"	1/2"	VIT. CHINA, WHITE, DROP-IN LAVATORY. PROVIDE WITH SINGLE LEVER ADA FAUCET, 17GA, P-TRAP, GRID DRAIN, FLEXIBLE SUPPLIES AND STOPS. PROVIDE WITH ASSE 1070 TEMPERATURE LIMITING VALVE SET FOR 105°F. INSTALL PER ADA REQUIREMENTS. FIXTURE EQUAL TO AMERICAN STANDARD 0491.019 AND DELTA 22C551.	①
P-3	URINAL	2"	2"	3/4"	-	VIT. CHINA, WALL HUNG URINAL TOP SPUD FLUSH VALVE TYPE. PROVIDE WITH 0.5 GALLON PER FLUSH VALVE AND FLOOR MOUNTED CARRIER. FIXTURE EQUAL TO AMERICAN STANDARD 6590.001 AND SLOAN REGAL 180.	
P-4	WATER COOLER (HC)	2"	1-1/2"	1/2"	-	DUAL HEIGHT WATER COOLER. PROVIDE WITH FLOOR MOUNTED CARRIER, P-TRAP, FLEXIBLE SUPPLY, AND STOP. INSTALL PER ADA REQUIREMENTS. PROVIDE ELKAY EZS SERIES.	①
P-5	ICE MAKER BOX	-	-	1/2"	-	RECESSED BOX WITH 1/4 TURN STOP. EQUAL TO GUY GRAY BIM875.	
P-6	SINK	2"	1-1/2"	1/2"	1/2"	33"x22"x5-1/2" GA TWO COMPARTMENT STAINLESS STEEL SINK WITH SINGLE LEVER FAUCET WITH HAND SPRAYER. PROVIDE WITH TWO BASKET STRAINERS, P-TRAP, FLEXIBLE SUPPLIES AND STOPS. COORDINATE INSTALLATION WITH OTHER TRADES. FIXTURE EQUAL TO ELKAY LRAD332255 AND DELTA B4410LF.	
P-7	SINK	2"	1-1/2"	1/2"	1/2"	33"x22"x10-1/8" STAINLESS STEEL SINGLE BOWL DROP-IN SINK WITH SINGLE LEVER FAUCET WITH HAND SPRAYER. PROVIDE WITH BASKET STRAINER, P-TRAP, FLEXIBLE SUPPLIES AND STOPS. COORDINATE INSTALLATION WITH OTHER TRADES. FIXTURE EQUAL TO ELKAY DLR5332210 AND DELTA B4410LF.	
SHW-1	SHOWER	2"	1-1/2"	1/2"	1/2"	57-1/2"x36" ONE-PIECE SHOWER WITH PRESSURE BALANCED MIXING VALVE. PROVIDE WITH ADJUSTABLE SPRAY HEAD AND STAINLESS STEEL GRATE. FIXTURE EQUAL TO AQUATIC 15836FHA AND DELTA T17TH155.	
SHW-2	SHOWER	2"	1-1/2"	1/2"	1/2"	60"x36-5/8" ONE-PIECE FIBERGLASS ADA ROLL IN SHOWER WITH PRESSURE BALANCED MIXING VALVE AND ADJUSTABLE SHOWER HEAD WITH 24" SLIDE BAR AND FLEXIBLE HOSE. PROVIDE WITH FOLDING SEAT, ADA GRAB BARS, MIXING VALVE, ADJUSTABLE SPRAY HEAD AND STAINLESS STEEL GRATE. FIXTURE EQUAL TO AQUATIC 16037BFSO AND DELTA T17TH155.	
SHW-3	SHOWER	-	-	1/2"	1/2"	ADJUSTABLE HAND SHOWER WITH STAINLESS STEEL GRAB BAR. PROVIDE WITH PRESSURE BALANCED MIXING VALVE AND SINGLE LEVER CONTROL HANDLE. FIXTURE EQUAL TO DELTA T17TH155.	
MV-1	MIXING VALVE	-	-	3/4"	3/4"	MIXING VALVE EQUAL TO SYMMONS 5-225-CK WITH INTERNAL CHECK VALVES. MINIMUM FLOW 0.5 GMP, MAXIMUM FLOW 5.5 GPM @ 10.0 PSI DROP. SET FOR 105°F.	
FD	FLOOR DRAIN	3"	2"	-	-	FLOOR DRAIN EQUAL TO ZURN 415 SERIES WITH BRONZE GRATE. PROVIDE WITH GERR DRAIN TRAP SEAL.	
FPHB	FREEZE PROOF HOSE BIBB	-	-	3/4"	-	1/4 TURN, FREEZE PROOF, WALL HYDRANT WITH AUTOMATIC DRAINING, AND INTEGRAL VACUUM BREAKER. PROVIDE WITH LOOSE KEY OPERATION VALVE AND POLISHED NICKEL BRONZE FACE. EQUAL TO J. R. SMITH 5509QT.	
JAN	JANITOR'S SINK	3"	2"	1/2"	1/2"	36"x24" FLOOR MOUNTED JANITOR'S SINK WITH SELF-DRAINING MOP SHELF, WALL MOUNTED FAUCET WITH VACUUM BREAKER, WALL BRACE, AND MOP HANGER. FIXTURE EQUAL TO ZURN Z1996-36 AND ZURN Z843M1.	

① HANDICAPPED FIXTURES SHALL BE INSTALLED PER THE LATEST REQUIREMENTS OF ADA.

GAS FIRED CONTINUOUS DOMESTIC WATER HEATER SCHEDULE									
UNIT MARK	TOT. GAS INPUT (BTUH)	RECOVERY RATE			EFFICIENCY	ELECTRICAL			REMARKS
		TOT. GPH	RISE °F.	LVG. WTR.		VOLTS	HZ	Ø	
GFWH-1	11,000 TO 199,900	5.7	67°	140"	95%	120	60	1	①②③④
GFWH-2	11,000 TO 199,900	5.7	67°	140"	95%	120	60	1	①②③④

- ① HOT WATER TEMPERATURE DELIVERY FROM THE WATER HEATERS SHALL BE 140°.
- ② BASIS OF DESIGN IS RHEEM RTGH-95XL SERIES, COMMERCIAL CONDENSING TYPE WITH MANIFOLD CONTROL. MINIMUM FLOW SHALL BE 0.4 GPM FOR ACTIVATION.
- ③ COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- ④ SEE DETAIL FOR ADDITIONAL REQUIREMENTS. INSTALL PER SPECIFIC MANUFACTURER RECOMMENDATIONS.

HOT WATER RECIRCULATION PUMP SCHEDULE									
MARK RCP	CONTROL WITH	CAPACITY (GPM)	TOTAL HEAD (FT)	PUMP CONSTRUCTION	MOTOR (HP)	VOLTS	Hz	PHASE	NOTES
1	AQUASTAT	5	20	STAINLESS STEEL	1/5	120	60	1	1, 2, 3, 4
NOTES									
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.								
2	PROVIDE WITH AQUASTAT WITH A TEMPERATURE SETPOINT OF 105°F.								
3	PROVIDE WITH 24 HOUR TIME CLOCK. PUMP SHALL OPERATE DURING OCCUPIED HOURS, ELSE IT SHALL BE OFF.								
4	PUMP SHALL BE SUITABLE FOR POTABLE WATER USE.								



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GENERAL PLUMBING NOTES

- THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM INTERFERENCE WITH OTHER TRADES.
- VERIFY EXACT PLUMBING FIXTURE ROUGH-IN AND FINAL HVAC EQUIPMENT REQUIREMENTS IN THE FIELD.
- DRAIN, WASTE, AND VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 POLY VINYL CHLORIDE (PVC) SYSTEM "ASTM D 2665". NO FOAM CORE SHALL BE USED.
- DOMESTIC WATER PIPING SHALL BE ASTM B 88, TYPE K, WITH ANSI B16.18 OR ANSI B16.22 SOLDER JOINT FITTINGS USING SILVER SOLDER AND FLUX CONTAINING NOT MORE THAN 0.2 PERCENT LEAD; OR WITH ANSI B16.26 FLARED JOINT FITTINGS. ASTM B 88, TYPE L MAY BE PROVIDED FOR ABOVEGROUND PIPING. SLEEVE SERVICE ENTRANCE AT SLAB. SEAL AROUND PIPING WATER PROOF.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING ALL TRAPS, DRAINS, AND SUPPLIES WITH STOPS. FURNISH AND INSTALL PLUMBING FIXTURES INDICATED OR SPECIFIED, COMPLETE WITH ALL EQUIPMENT, FITTINGS, TRIM AND ACCESSORIES INDICATED OR SPECIFIED. EXPOSED WATER PIPING TO FIXTURES SHALL BE CHROME-PLATED BRASS, IPS. ADJUST WATER FLOW THROUGH ALL FIXTURES TO PROVIDE PROPER FLUSHING ACTION WITH THE LEAST AMOUNT OF WATER.
- COORDINATE ROUTING OF WATER SUPPLY, WASTE, AND VENT PIPING WITH OTHER TRADES.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND EXCAVATIONS.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10 FEET FROM ANY OUTSIDE AIR INTAKE.
- FLOOR CLEANOUTS SHALL BE ADJUSTABLE HEIGHT POLISHED BRONZE, NICKEL BRONZE WITH "CO" CAST IN THE FLOOR PLATE.
- PROVIDE STOPS AND WATER HAMMER ARRESTORS IN ACCORDANCE WITH PDI AND ASSE 1010. AN ACCESS PANEL MUST BE INSTALLED IF WATER HAMMER ARRESTER IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. COORDINATE OPENINGS WITH ARCHITECT.
- PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL CONNECTIONS.
- INSULATE ALL WATER PIPING. DOMESTIC WATER PIPE NOT EXPOSED TO VIEW SHALL BE INSULATED WITH 1" THICK GLASS FIBER WITH FACTORY APPLIED UNIVERSAL JACKET. DENSITY SHALL BE 4 POUNDS PER CUBIC FOOT. FITTINGS SHALL BE INSULATED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSULATION VAPOR BARRIER SHALL BE LAPPED AND CEMENTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DOMESTIC WATER PIPE EXPOSED TO VIEW SHALL BE INSULATED SAME AS WHERE NOT EXPOSED TO VIEW, EXCEPT IT SHALL BE FINISHED WITH A SIZED UNIVERSAL JACKET SUITABLE FOR PAINTING. FITTING SHALL BE MADE OF "QUICKSET" CEMENT MOLDED TO FIT AND COVERED WITH 8 OZ. CANVAS AND FINISHED WITH WHITE VAPOR BARRIER CEMENT, AND HAVE PLASTIC MOLDED FITTING COVERS. INSULATE DOMESTIC WATER AND WASTE PIPING UNDER HANDICAP LAVATORIES AND SINKS USING "LAVGUARD2 E-Z SERIES" MOLDED VINYL PIPING COVERS. COVER ALL PIPING, FITTING, VALVES, AND TRAPS EXPOSED TO VIEW.
- ROUTE ALL PIPING AS TO CAUSE MINIMAL INTERFERENCE FOR MAINTENANCE OF ALL EQUIPMENT. UNLESS OTHERWISE NOTED, ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN CHASE SPACE. PIPING BELOW SLAB SHALL BE WITHOUT JOINTS AND TEES. PIPING PASSING THRU WALLS EXTENDING TO BOTTOM OF STRUCTURE SHALL BE SLEEVED AND SEALED. ALL DOMESTIC WATER PIPING ROUTED EXPOSED BELOW 6'-8" ABOVE FINISH FLOOR SHALL BE PROVIDED WITH A PVC JACKET TO PREVENT DAMAGE TO THE PIPE.
- PROVIDE SHUTOFF VALVE TO EACH SILLCOCK WITH VALVE IDENTIFICATION AS REQUIRED BY CODE.
- BEFORE FINAL ACCEPTANCE OF THE WORK, TEST EACH SYSTEM AS IN SERVICE TO DEMONSTRATE COMPLIANCE WITH 2021 INTERNATIONAL PLUMBING CODE AND LOCAL CODE REQUIREMENTS. ONCE TEST ARE IN COMPLIANCE WITH CONTRACT REQUIREMENTS DISINFECT WATER SYSTEM IN ACCORDANCE WITH AWWA C651.
- CONTRACTOR TO VERIFY ALL LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECTURAL DRAWINGS.
- PIPE HANGERS AND SUPPORTS SHALL BE MSS SP-58 AND MSS SP-69, TYPE 1 OR 6, OF THE ADJUSTABLE TYPE, EXCEPT AS INDICATED OTHERWISE. ATTACHMENTS TO STEEL W OR S BEAMS SHALL BE WITH TYPE 21, 28, 29, OR 30 CLAMPS. ATTACHMENTS TO STEEL ANGLES AND CHANNELS (WITH WEB VERTICAL) SHALL BE WITH TYPE 20 CLAMP WITH A BEAM CLAMP CHANNEL ADAPTER. ATTACHMENTS TO STEEL CHANNEL (WITH WEB HORIZONTAL) SHALL BE WITH DRILLED HOLE ON CENTERLINE AND DOUBLE NUT AND WASHER. ATTACHMENTS TO CONCRETE SHALL BE WITH TYPE 18 INSERT OR A DRILLED HOLE WITH EXPANSION ANCHOR. HANGER RODS AND ATTACHMENTS SHALL BE FULL SIZE OF THE HANGER-THREADED DIAMETER. PROVIDE TYPE 40 INSULATION PROTECTION SHIELDS FOR INSULATED PIPING. PROVIDE STEEL SUPPORT RODS. PROVIDE NONMETALLIC, HAIR FELT, OR PLASTIC PIPING ISOLATORS BETWEEN COPPER TUBING AND THE HANGERS.
- LABEL ALL WATER SERVICE VALVES IN ACCORDANCE WITH APPLICABLE CODES
- COORDINATE EXACT FLOOR DRAIN LOCATIONS ARCHITECTURAL DRAWINGS. SLOPE ENTIRE ROOM TO DRAINS.
- ALL TRAP PRIMER VALVES NOT LOCATED IN NORMALLY UNOCCUPIED SPACES SHALL BE MOUNTED ABOVE THE CEILING AND PROVIDED WITH A LABEL ON THE CEILING GRID TO INDICATE THE TRAP PRIMER LOCATION. NO TRAP PRIMERS SHALL BE INSTALLED EXPOSED IN NORMALLY OCCUPIED SPACES.
- ROUTE SANITARY PIPING AS HIGH AS POSSIBLE TO AVOID CONFLICT WITH FOOTERS AND TO MAINTAIN ABILITY TO GRAVITY DISCHARGE INTO CITY SEWER. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATION OF THE NEW SANITARY SEWER LATERAL AND ENSURE WASTE PIPING IS INSTALLED TO PROVIDE A GRAVITY DISCHARGE INTO THE CITY MAIN.
- THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL ASSOCIATED WASTE AND WATER TAP FEES ASSOCIATED WITH THIS PROJECT. ALL FEES ARE TO BE INCLUDED IN THE CONSTRUCTION COST.
- PLUMBER INSTALLING OXYGEN AND NITROUS OXIDE PIPING SHALL BE A STATE CERTIFIED MEDICAL GAS PIPING INSTALLER. ALL MEDICAL GAS PIPING SHALL BE INSTALLED PER THE REQUIREMENTS NFPA AND THE 2018 INTERNATIONAL PLUMBING CODE.
- ALL WORK INSTALLED SHALL MEET THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION, THE 2018 INTERNATIONAL PLUMBING CODE, AND THE 2013 ASHRAE 90.1 ENERGY CONSERVATION CODE.

Adams•Stewart•Architects

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ISSUE	DATE	DESCRIPTION
1.	10.10.25	BID DOCUMENTS

THE CITY OF FOLEY

1ST RESPONDERS HURRICANE SHELTER

NORTH POPLAR STREET
FOLEY, ALABAMA 36535

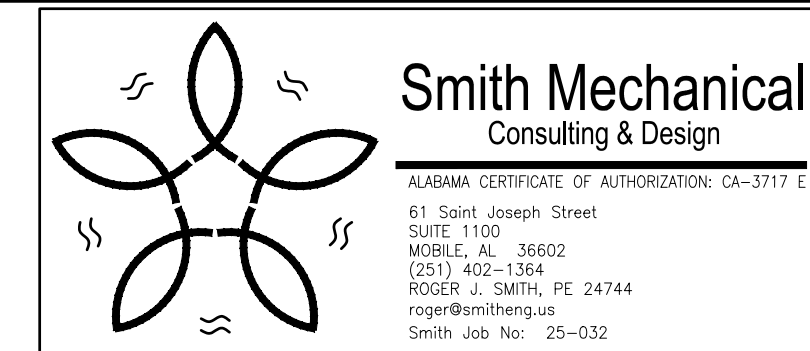
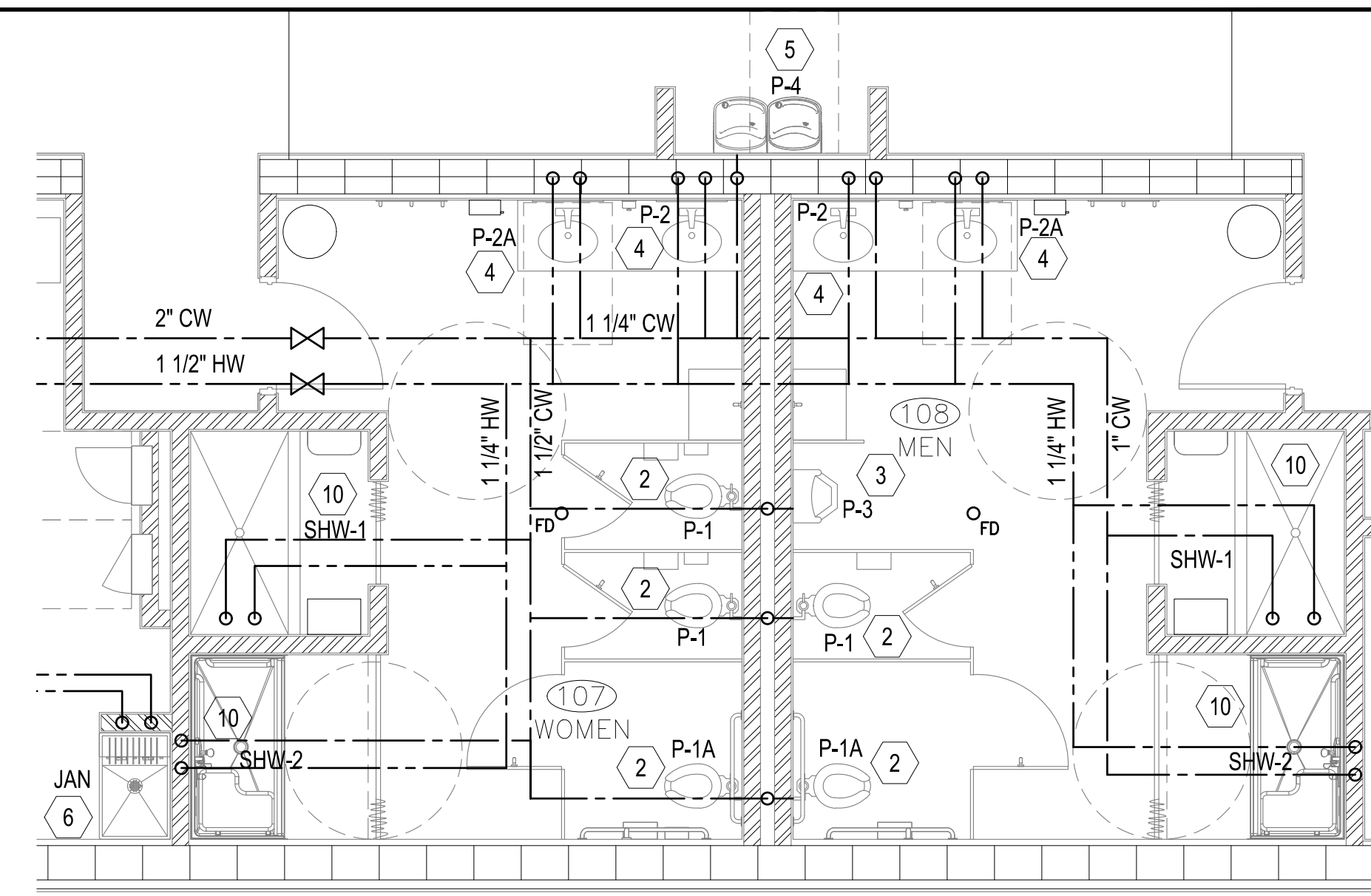
PROJECT NO: 24-027

SHEET NO:
PLUMBING
NOTES AND
SCHEDULES

P1.0

SHEET NOTES

- 2 1" CW DOWN FOR CONNECTION TO WATER CLOSET.
- 3 3/4" CW DOWN FOR CONNECTION TO URINAL.
- 4 1/2" HW/CW DOWN FOR CONNECTION TO LAVATORY.
- 5 1/2" CW DOWN FOR CONNECTION TO WATER COOLER.
- 6 3/4" HW/CW DOWN FOR CONNECTION TO JANITOR'S CLOSET.
- 7 1 1/2" HW/CW DOWN, 1 1/2" HW UP FROM MIXING VALVE MV-1.
- 8 1/2" CW DOWN INSIDE WALL FOR CONNECTION TO SINK. PROVIDE 1/2" HW BRANCH CONNECTION WITH STOP FOR CONNECTION TO DISHWASHER.
- 9 1/2" CW DOWN INSIDE WALL FOR CONNECTION TO ICE MAKER.
- 10 1/2" HW/CW DOWN INSIDE WALL FOR CONNECTION TO SHOWER.
- 11 PROVIDE PLUMBING/GAS PIPING PENETRATION THROUGH SHELTER WALL WITH ICC 500 PIPE PENETRATION PROTECTIVE COVER. SEE DETAIL FOR PROTECTIVE REQUIREMENTS.
- 12 CONTRACTOR SHALL PROVIDE AND INSTALL AN AUTOMATIC EXCESS FLOW TYPE EARTHQUAKE VALVE IN THE NATURAL GAS PIPING. INSTALL PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS.

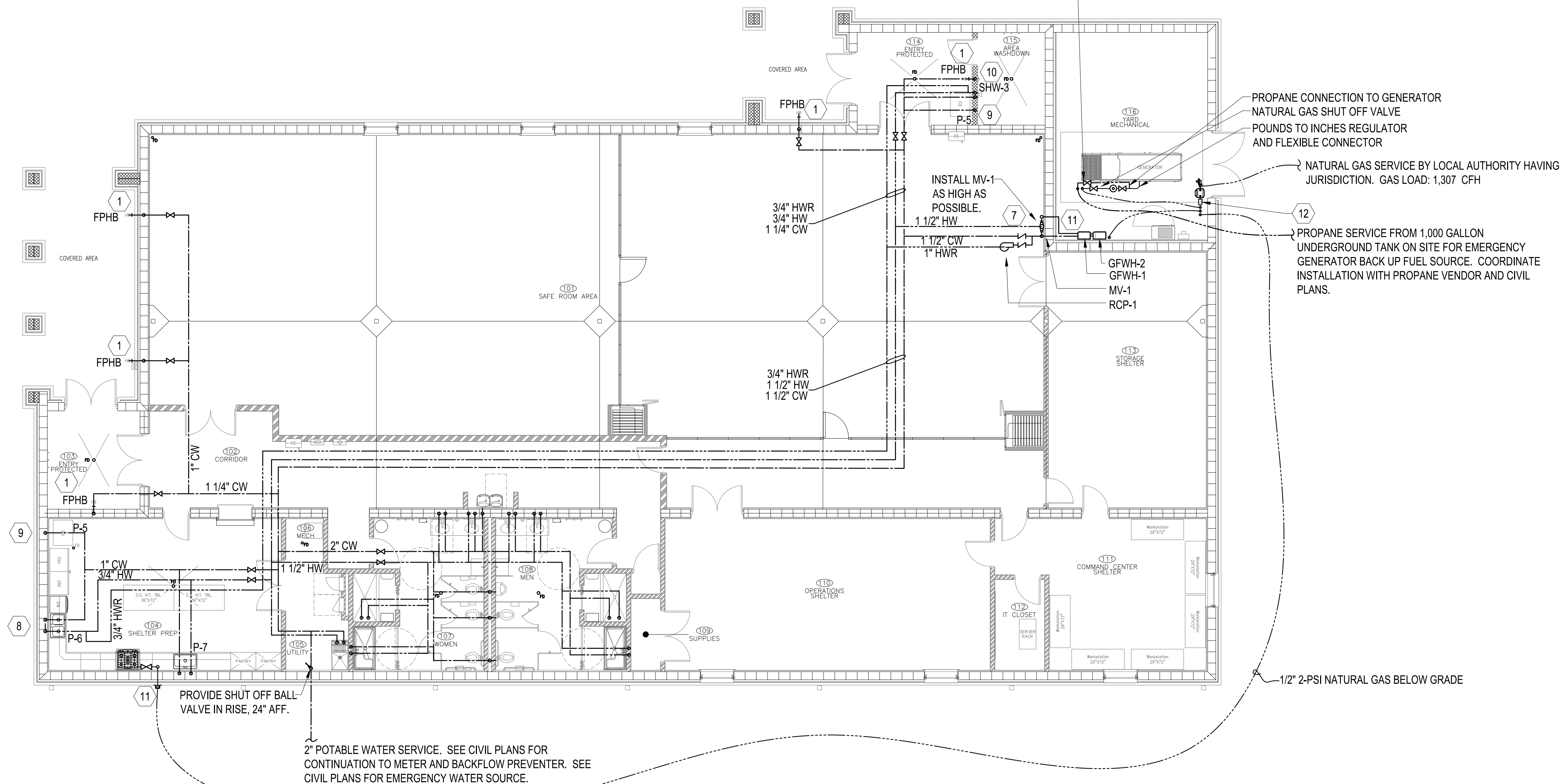


2 ENLARGED PLUMBING PLAN

4' 0' 4' 8'

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

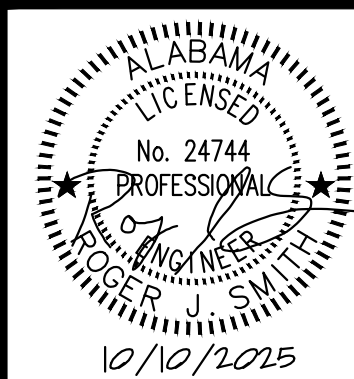
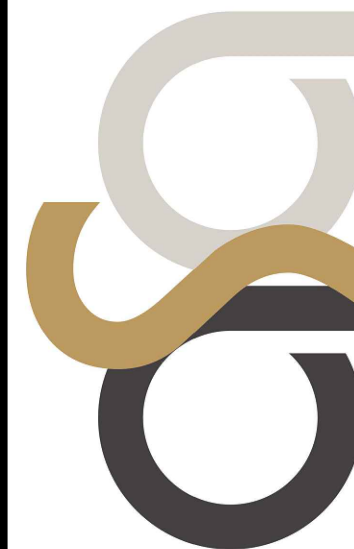
EMERGENCY PROPANE
SUPPLY SOURCE VALVE
NORMALLY CLOSED.
WHEN USED, THE
NATURAL GAS VALVES
SHALL BE CLOSED.



1 PLUMBING PLAN

8' 0' 8' 16'

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

[illegible]

THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO:	24-02
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SHEET NO

PLUMBING PLAN

P2.0

SHEET NOTES

- 2 PROVIDE TAIL PIECE WITH DISHWASHER TEE.

[illegible]

THE CITY OF FOLEY
1ST RESPONDERS HURRICANE SHELTER
NORTH POPLAR STREET
FOLEY, ALABAMA 36535

PROJECT NO: 24-027

SHEET NO:

SANITARY PLAN

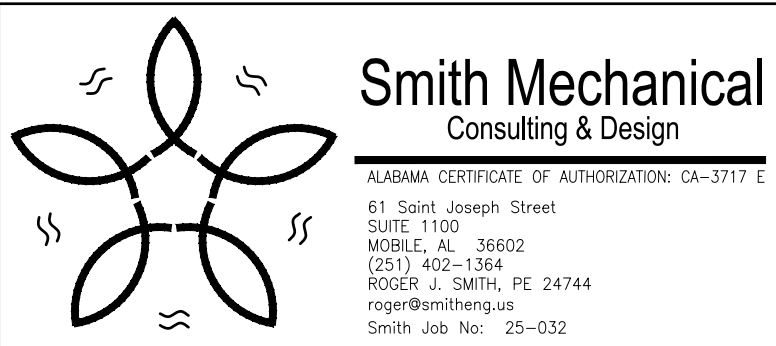
P2.1



1 SANITARY PLAN

8' 0' 8' 16'

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



P3.0

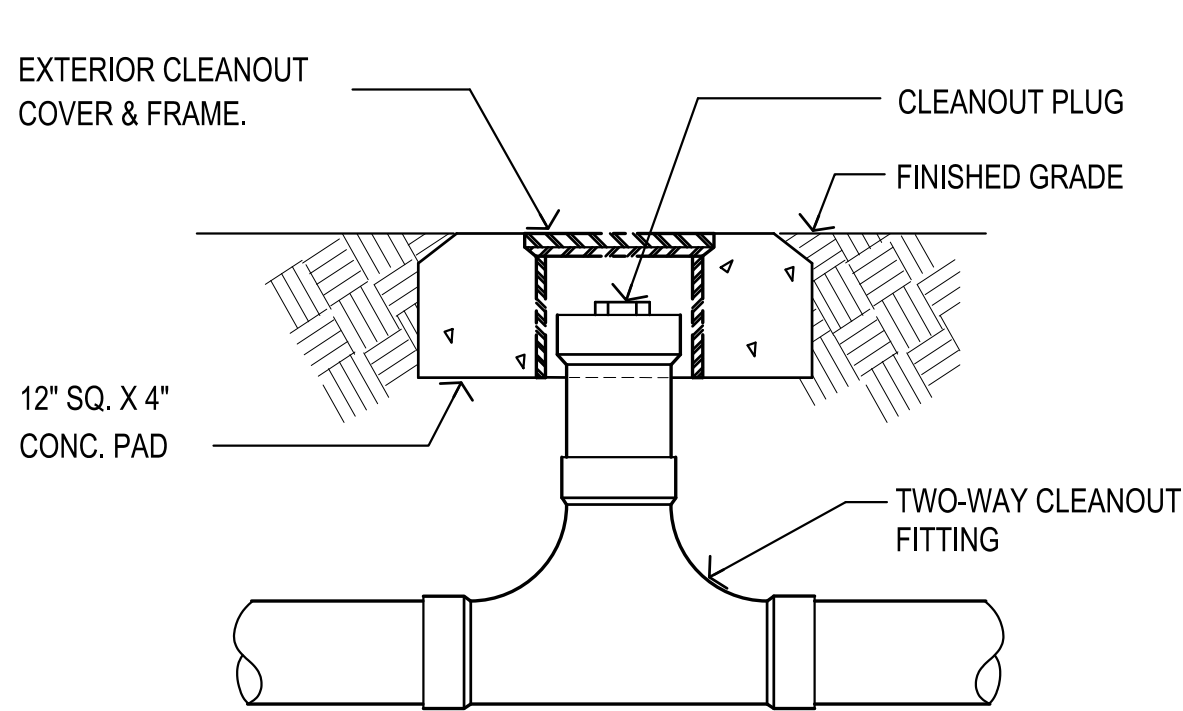


ISSUE	DATE	DESCRIPTION
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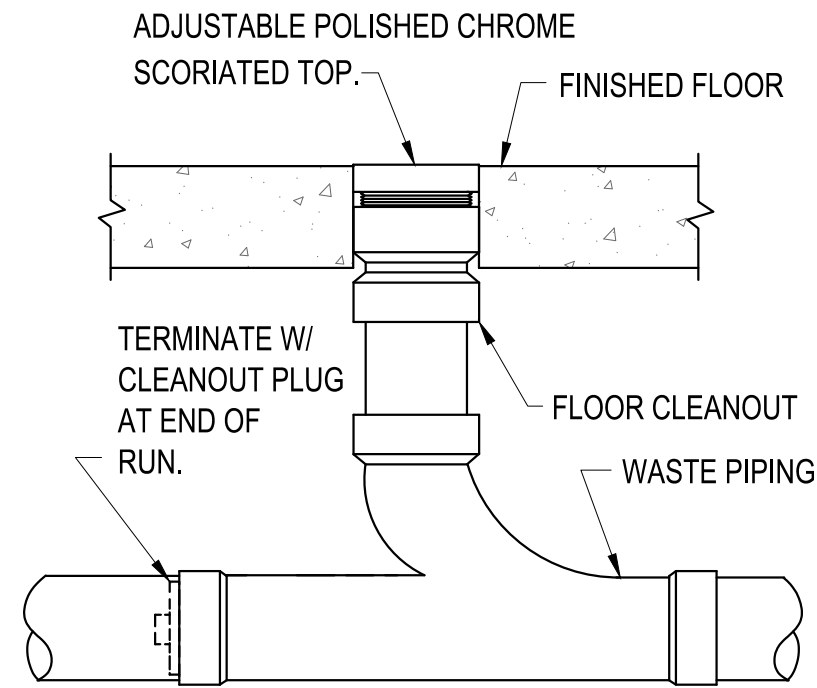
THE CITY OF FOLEY

1ST RESPONDERS HURRICANE SHELTER

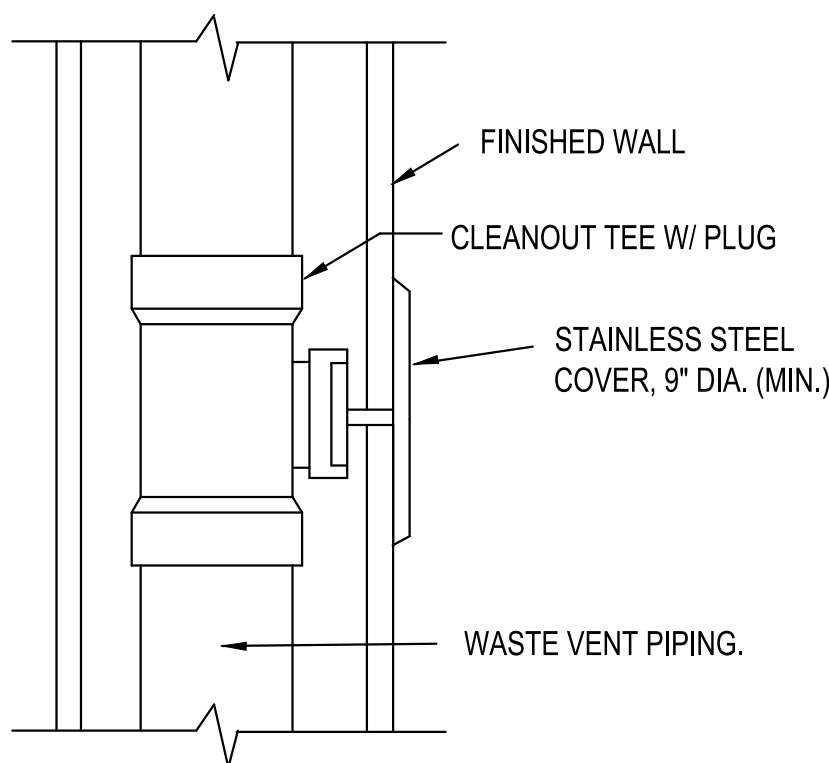
NORTH POPLAR STREET
FOLEY, ALABAMA 36535



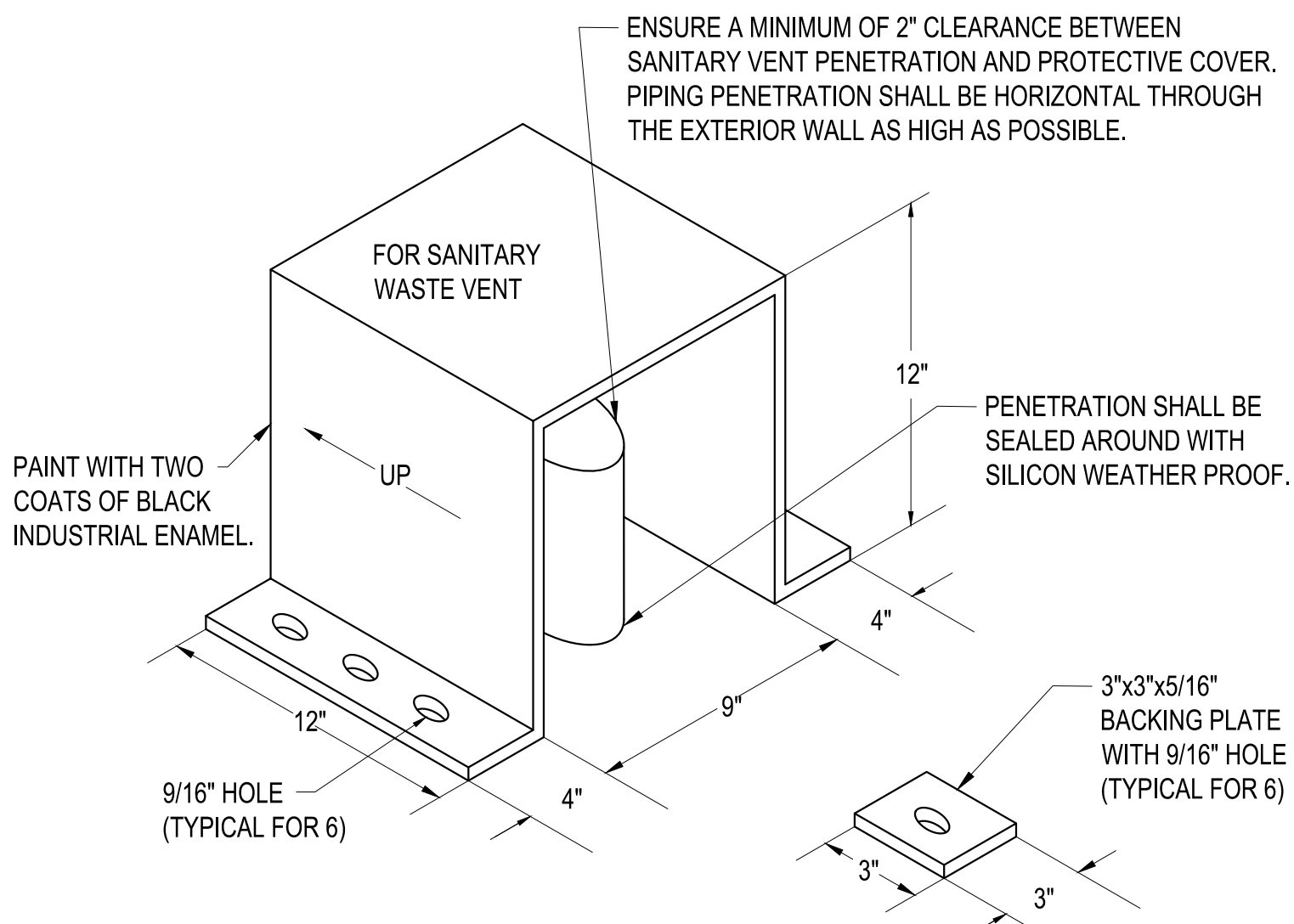
1 TWO-WAY CLEANOUT DETAIL
NOT TO SCALE



2 FLOOR CLEANOUT DETAIL
NOT TO SCALE

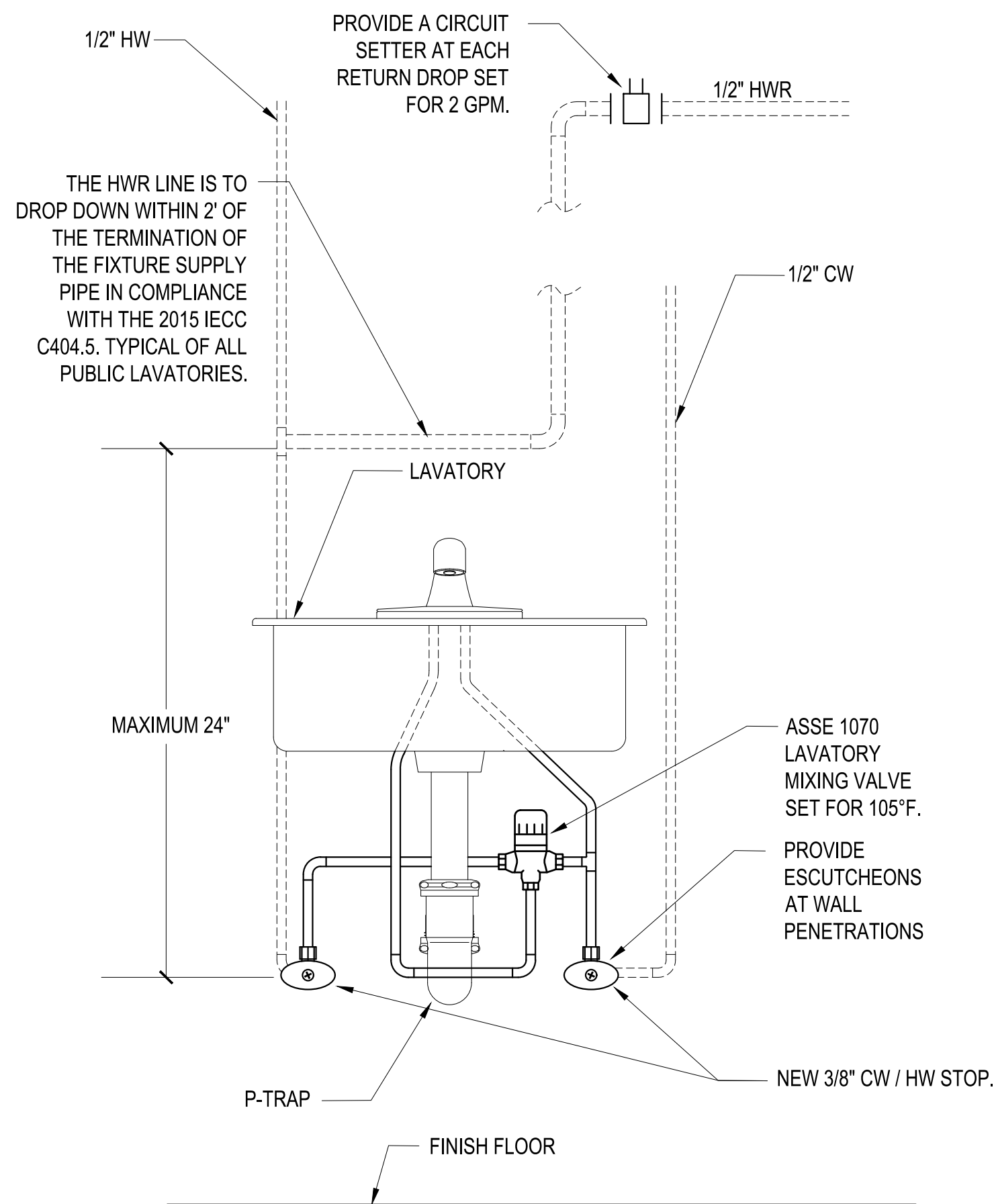


3 WALL CLEANOUT DETAIL
NOT TO SCALE



NOTE: WALL PENETRATION PROTECTIVE COVER SHALL BE AN ALL WELDED SEAM FABRICATION OF 5/16" CARBON STEEL PLATE. THE ASSEMBLY SHALL BE HELD IN PLACE WITH SIX PIECES OF EMBEDDED 1/2" THREADED ROD WITH 3"x3"x5/16" BACKING PLATES ON THE EXTERIOR OF THE BUILDING WALL FACE. THE THREADED ROD SHALL BE DOUBLE NUTTED. THE PROTECTIVE COVER SHALL BE HOT DIPPED GALVANIZED. THE THREADED ANCHORS SHALL BE 316 STAINLESS STEEL.

4 ICC 500 SHELTER WALL PENETRATION PROTECTION
DETAIL FOR SANITARY VENT OR PLUMBING PIPING
NOT TO SCALE



5 LAVATORY MIXING VALVE DETAIL
NOT TO SCALE