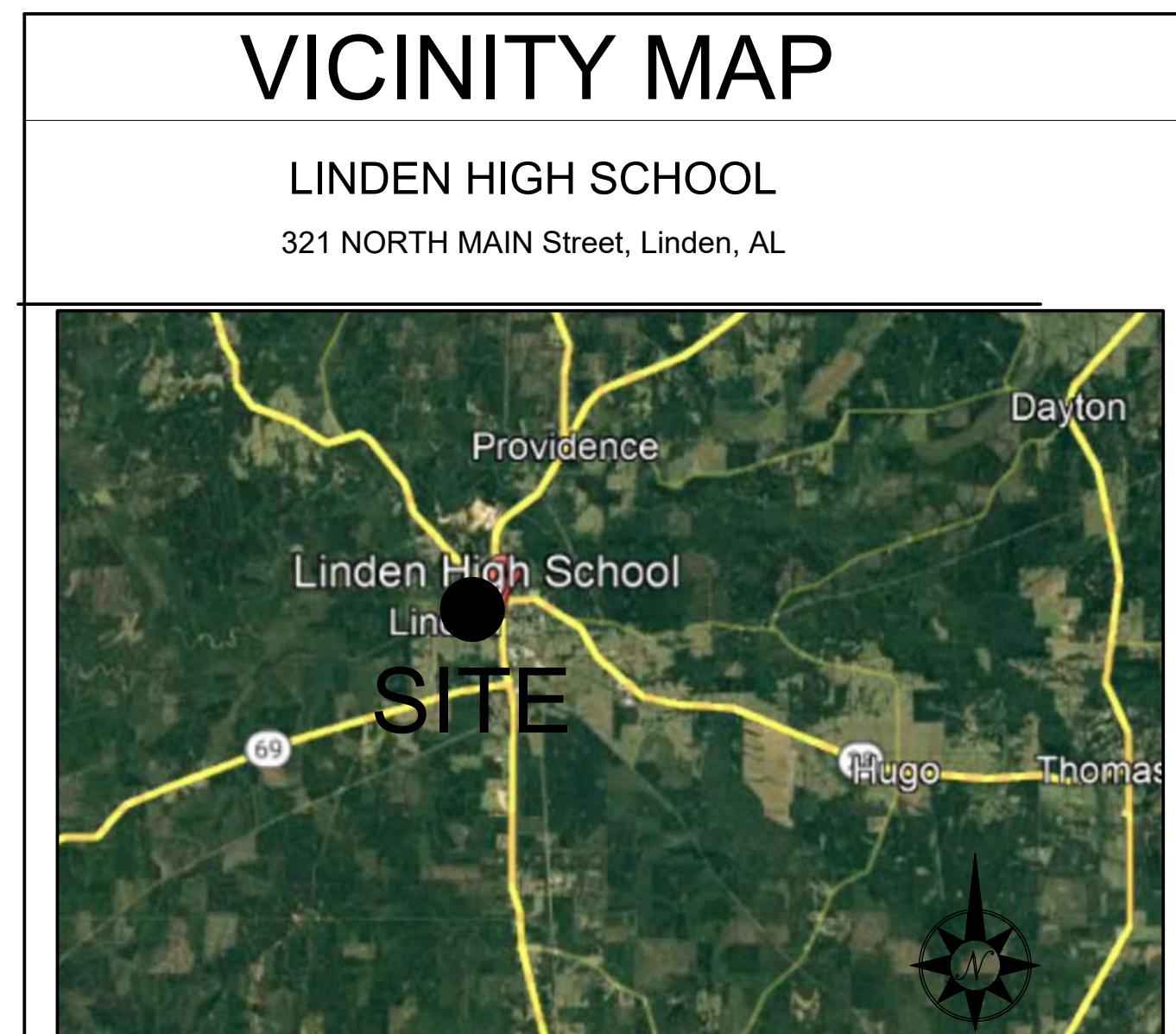
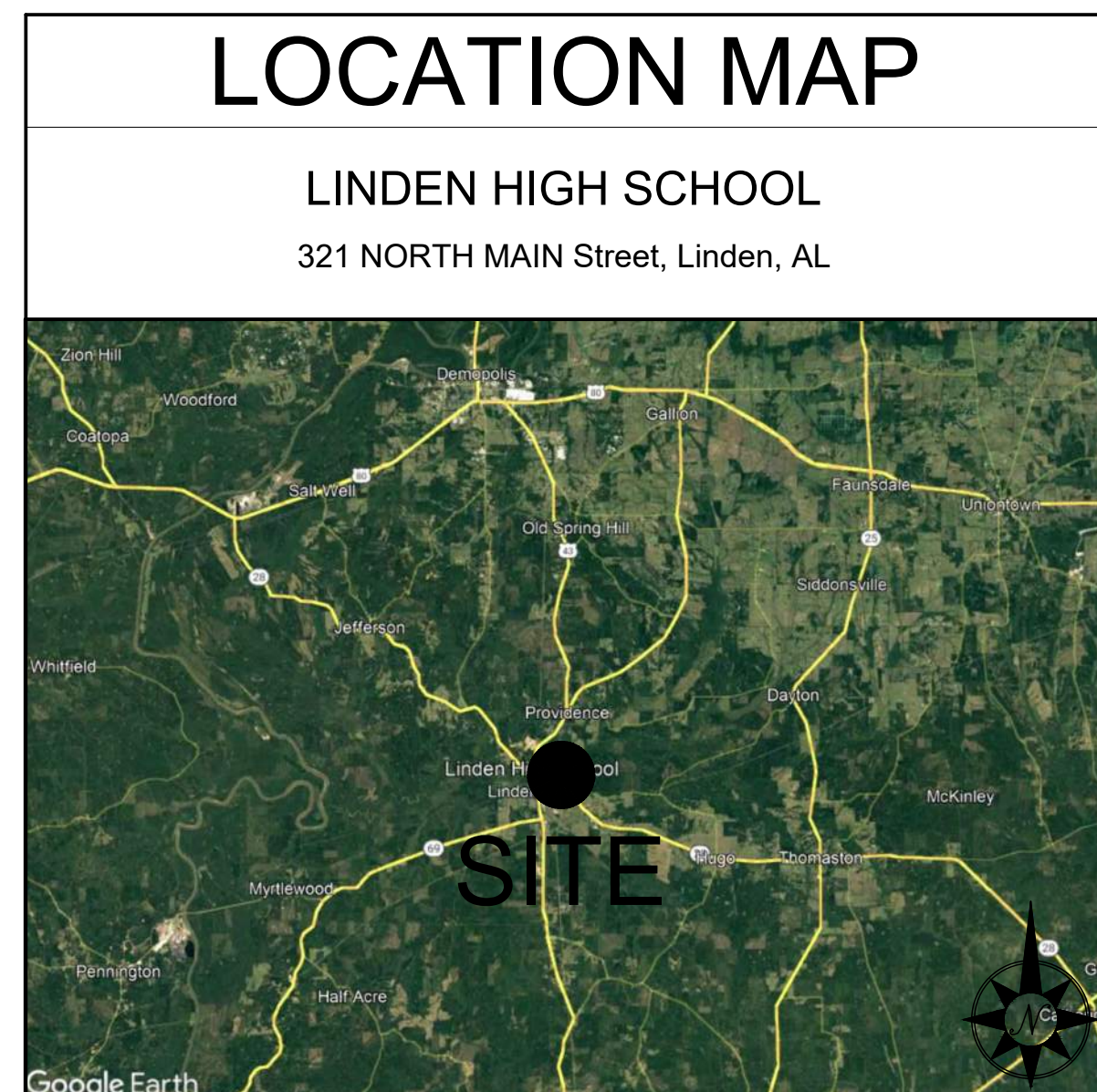
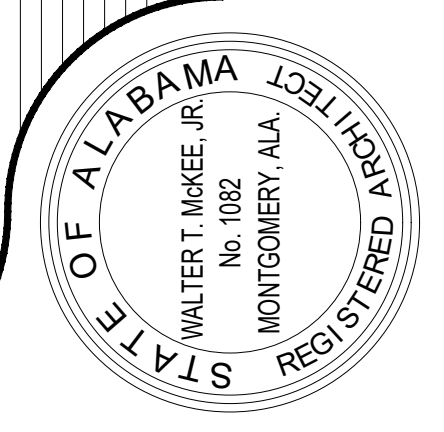


ADDITION TO LINDEN HIGH SCHOOL FOR LINDEN CITY BOARD OF EDUCATION LINDEN, ALABAMA

ADDITION TO
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 FOR THE
LINDEN CITY BOARD OF EDUCATION
 LINDEN, ALABAMA

MCKEE & ASSOCIATES
 ARCHITECTS, INC.



CONTACTS		
<p>OWNER</p> <p>Linden City Board of Education 209 N. Main St. Linden, Alabama 36748 Phone: (334) 295-8801</p>	<p>ARCHITECTURAL</p> <p>Mckee and Associates 631 South Hull Street Montgomery, Alabama 36104 Phone: (334) 834.9933</p>	<p>CIVIL</p> <p>Barrett-Simpson, Inc. Simpson Environmental Services, LLC. 706 12th Street Phenix City, Alabama 36867 Phone: (334) 297-2423</p>
<p>STRUCTURAL</p> <p>Blackburn, Daniels, O'barr Consulting Structural Engineers 1005 Browns Hill Road Lowndesboro, Alabama 36752 Phone: (334) 265.0206</p>	<p>PLUMBING and MECHANICAL</p> <p>Zgouvas, Eiring and Associates 800 South McDonough Street Montgomery, Alabama 36104 Phone: (334) 263.4406</p>	<p>ELECTRICAL</p> <p>Gunn and Associates 3102 Highway 14 Millbrook, AL 36054 Phone: (334) 285.1273</p>

INDEX TO DRAWINGS

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C1	DEMOLITION PLAN	A1.2	LARGE SCALE PLANS AND INTERIOR ELEVATIONS	P1.0	PLBG. SCHEDULES, NOTES AND DETAILS	E1.3	TRENCHING AND REPAIR DETAILS
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S2.3	SECTIONS AND DETAILS						

SHEET TITLE : TITLE SHEET AND INDEX TO DRAWINGS

MCKEE JOB # : 22-315

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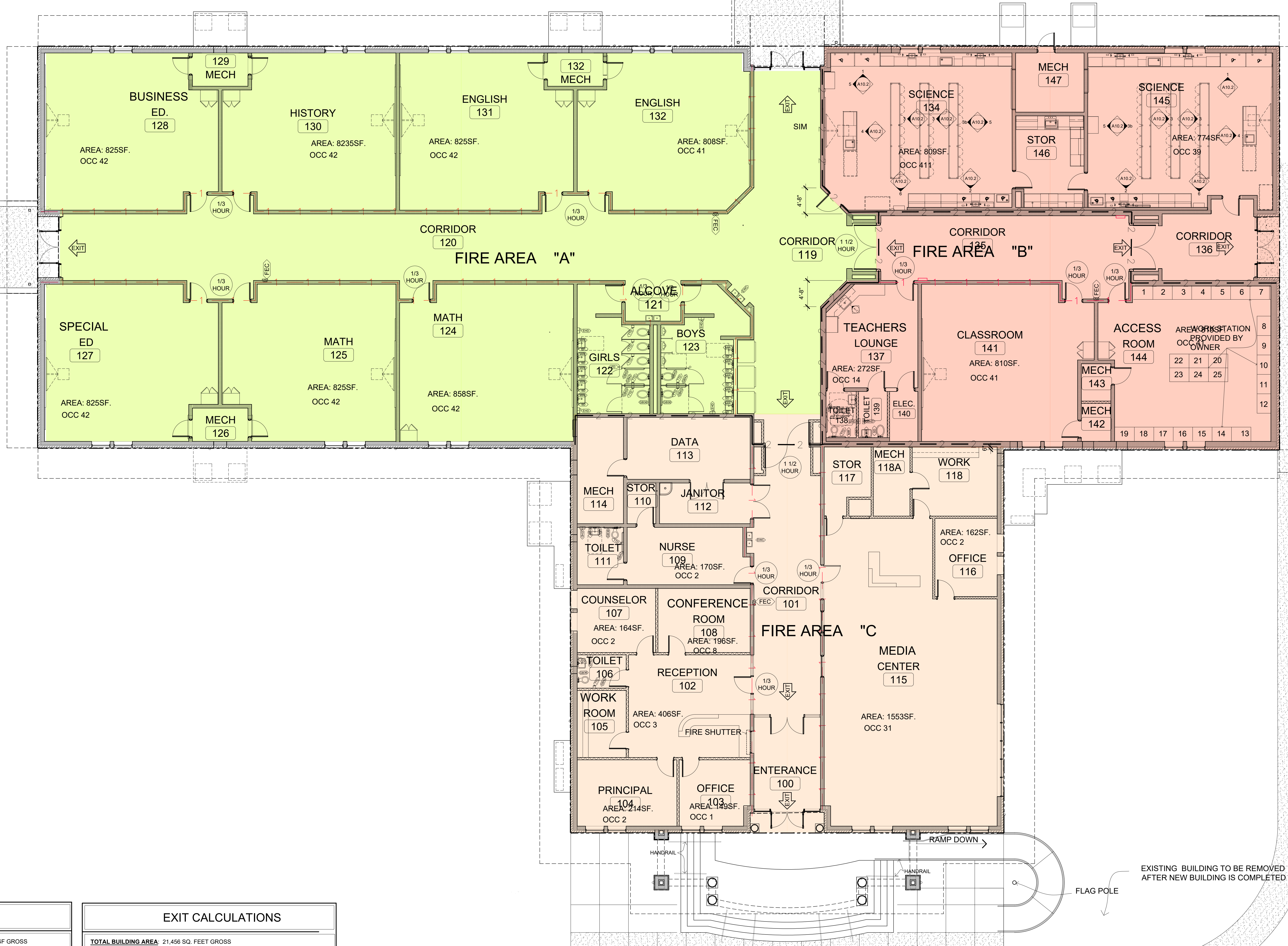
DATE : 8/27/2024

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SHEET NO. : **G0.1**



CODE REVIEW

CODE: 2021 INTERNATIONAL BUILDING CODE 21,456 SF GROSS
 BUILDING IS DIVIDED INTO THREE FIRE AREAS SEPARATED BY 2 HR. FIRE WALLS
 FIRE AREA "A" 9,611 SQ.FT.
 FIRE AREA "B" 5,801 SQ.FT.
 FIRE AREA "C" 5,652 SQ.FT.
 PROJECT SCOPE: HIGH SCHOOL CLASSROOM BUILDING
 OCCUPANCY TYPE: GROUP "E"
 SPRINKLERED: NO
 NUMBER OF STORIES: ONE
 CONSTRUCTION TYPE: TYPE II-B
 TYPE II-B, REQUIRES THE FOLLOWING
 FIRE RESISTANCE (TABLE 601 AND 602):
 STRUCTURAL FRAME: 0 HOUR
 EXTERIOR BEARING WALLS: 0 HOUR
 INTERIOR BEARING WALLS: 0 HOUR
 EXTERIOR NONBEARING WALLS: 0 HOUR
 INTERIOR NONBEARING WALLS: 0 HOUR
 FLOOR CONSTRUCTION: 0 HOUR
 ROOF CONSTRUCTION: 0 HOUR
 CORRIDOR FIRE RESISTANCE RATINGS PER TABLE 1020.2 (OCCUPANCY USE
 <30" 1 HR FOR NON-SPRINKLERED BUILDING.
 EXIT ACCESS TRAVEL DISTANCE =
 200 FEET FOR NON-SPRINKLERED "E" OCCUPANCY (TABLE 1017.2)
 OTHER REQUIREMENTS:
 FIRE WALL RATING (TABLE 706.4): 2 HOUR
 FIRE SEPARATION DISTANCE REQUIREMENTS (TABLE 705.8): 25-30FT OR GREATER
 MAXIMUM ALLOWED WALL OPENING FOR UNPROTECTED NON-SPRINKLERED BUILDING:
 70% ALLOWED, 11% ACTUAL

EXIT CALCULATIONS

TOTAL BUILDING AREA: 21,456 SQ. FEET GROSS
 OCCUPANCY TYPE - GROUP "E" SINGLE OCCUPANCY
 BUILDING TYPE: II-B
 ALLOWABLE SF: TYPE "II-B" 25,375 BASED ON 506.2.1 EQUATION A₉ = A₁ + (N_s x L)
 ALLOWABLE HEIGHT (TABLE 504.3) ALLOWABLE # OF STORIES (TABLE 504.4)
 ALLOWABLE HEIGHT: 55 FT
 ALLOWABLE NO. OF STORIES: 2
 ACTUAL BUILDING HEIGHT: ± 28 FT
 ACTUAL NO. OF STORIES: 1
 OCCUPANT LOAD
 OCCUPANT LOAD TOTAL (1004 & TABLE 1004.5) = 552
 EXIT REQUIREMENTS: SEE PLAN
 MEANS OF EGRESS WIDTH (1005.3)
 ALL EXIT DOORWAYS ARE 72" WHICH EXCEEDS REQUIREMENT OF 1005.3.2
 CORRIDORS (TABLE 1020.2): CORRIDORS SERVING MORE
 THAN 30 OCCUPANTS IN NON-SPRINKLERED BUILDING
 1-HOUR RATED WALLS
 MINIMUM CORRIDOR WIDTH (TABLE 1020.3) 72 INCHES
 MAXIMUM TRAVEL DISTANCE (TABLE 1017.2) 200 FEET

PLUMBING CALCULATIONS

PLUMBING REQUIREMENTS TABLE 2902.1
 OCCUPANT LOAD TOTAL = 552 PERSONS
 TOILETS (TABLE 2902.1)
 MALE (1 PER 50 OCC.) (276 OCC.); 6 REQUIRED 6 PROVIDED
 FEMALE (1 PER 50 OCC.) (276 OCC.); 6 REQUIRED 6 PROVIDED
 LAVATORIES (TABLE 2902.1)
 MALE (1 PER 50 OCC.) (276 OCC.); 6 REQUIRED 7 PROVIDED
 FEMALE (1 PER 50 OCC.) (276 OCC.); 6 REQUIRED 7 PROVIDED
 TWO UNISEX TOILET PROVIDED IN OFFICE AREA WITH 1 TOILET AND 1
 LAVATORY PROVIDED IN EACH FOR AN ADDITIONAL 2 TOILETS AND
 LAVATORIES.
 DRINKING FOUNTAINS (TABLE 2902.1)
 (1 PER 100 OCC.) (552 OCC.); 6 REQUIRED 6 PROVIDED
 SERVICE SINK (TABLE 2902.1): 1 REQUIRED 1 PROVIDED

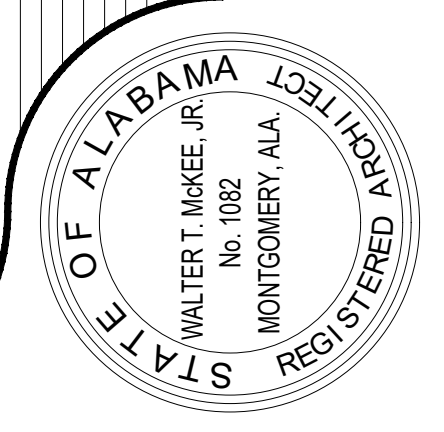
CODE LEGEND

SYMBOL	DESCRIPTION
—1—1—1	ONE HOUR FIRE RATED WALL
—2—2—2	TWO HOUR FIRE RATED WALL (Table 706.4 allows 3hr. fire wall in type II construction to be reduced to a 2hr fire wall under note a.)
EXIT	BUILDING EXIT
TD 200	TRAVEL DISTANCE NEAREST TO EXIT
♿	HANDICAP ACCESSIBLE
FEC	FIRE EXTINGUISHER CABINET - SEE DETAIL ON SHEET A9.1
FSD	FIRE SEPARATION DISTANCE
EW-10"	EXIT WIDTH REQUIRED
EW-34"	EXIT WIDTH PROVIDED
3/4 HOUR	RATED DOOR ASSEMBLY

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

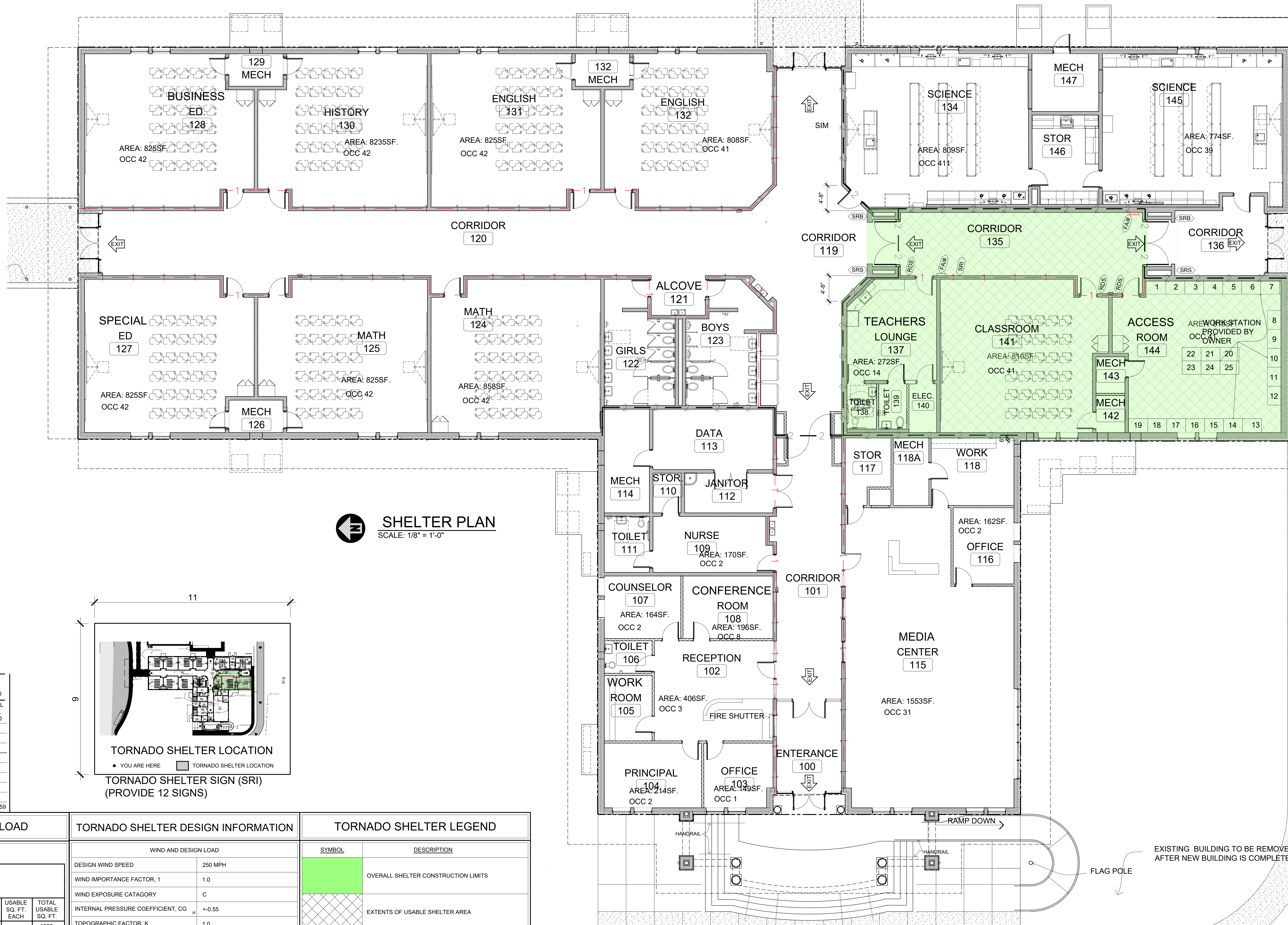
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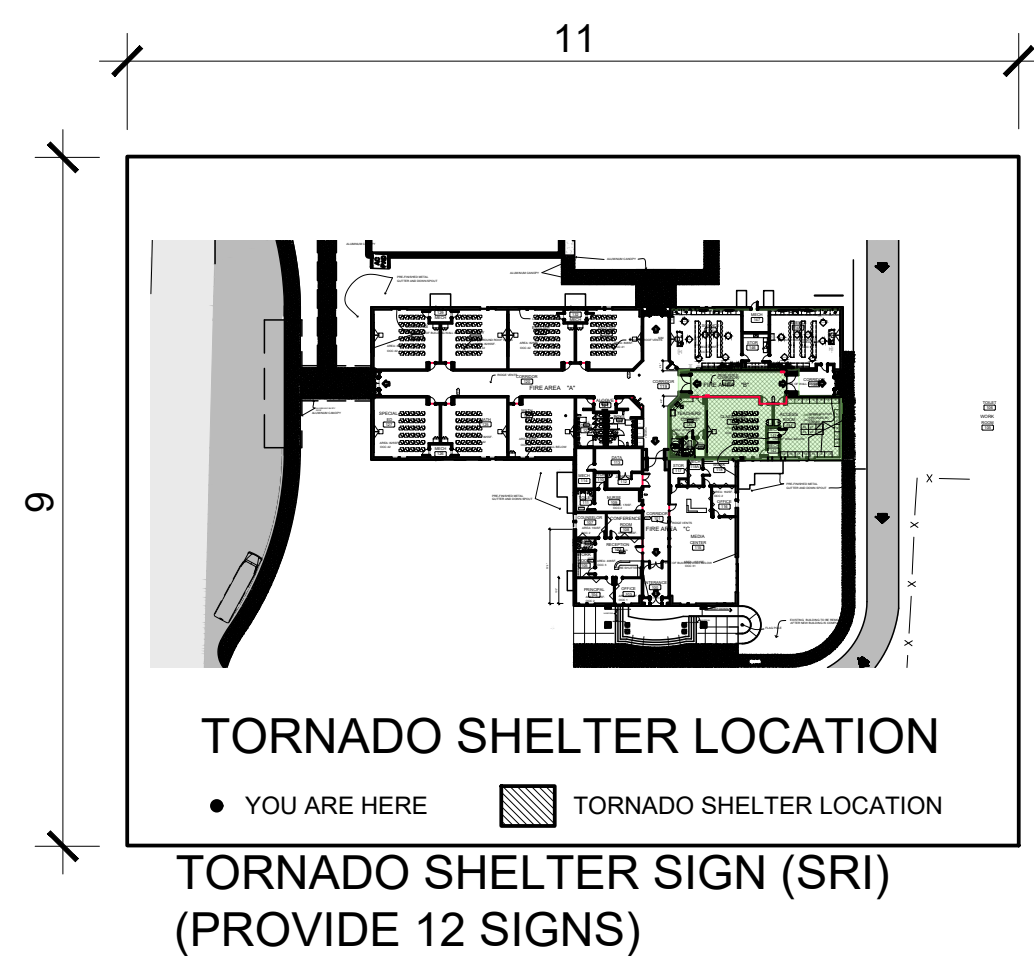


SHEET TITLE: CODE FLOOR PLAN
 MCKEE JOB #: 22-315
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 DATE: 8/27/2024
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SHEET NO.: **G1.0**



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



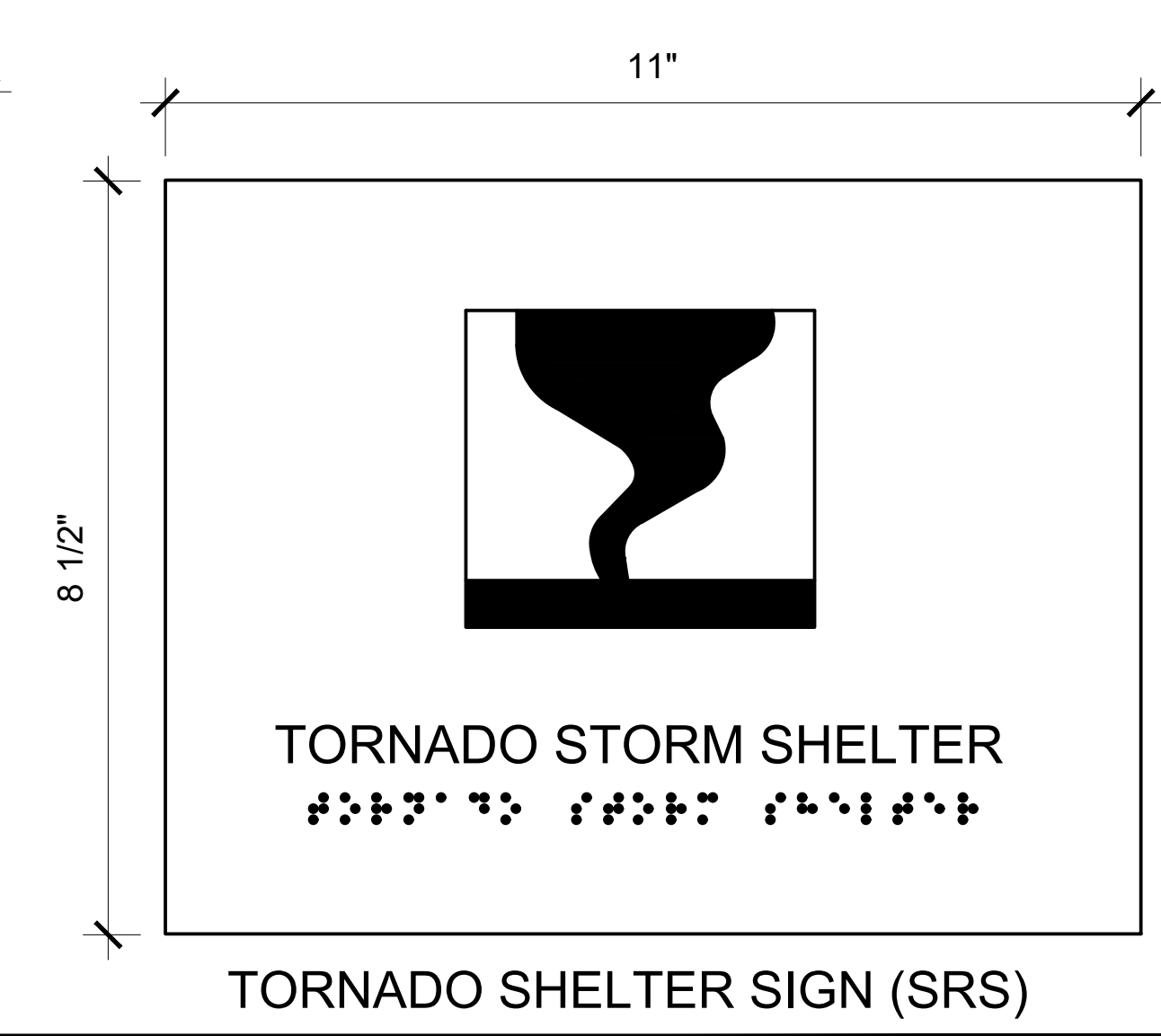
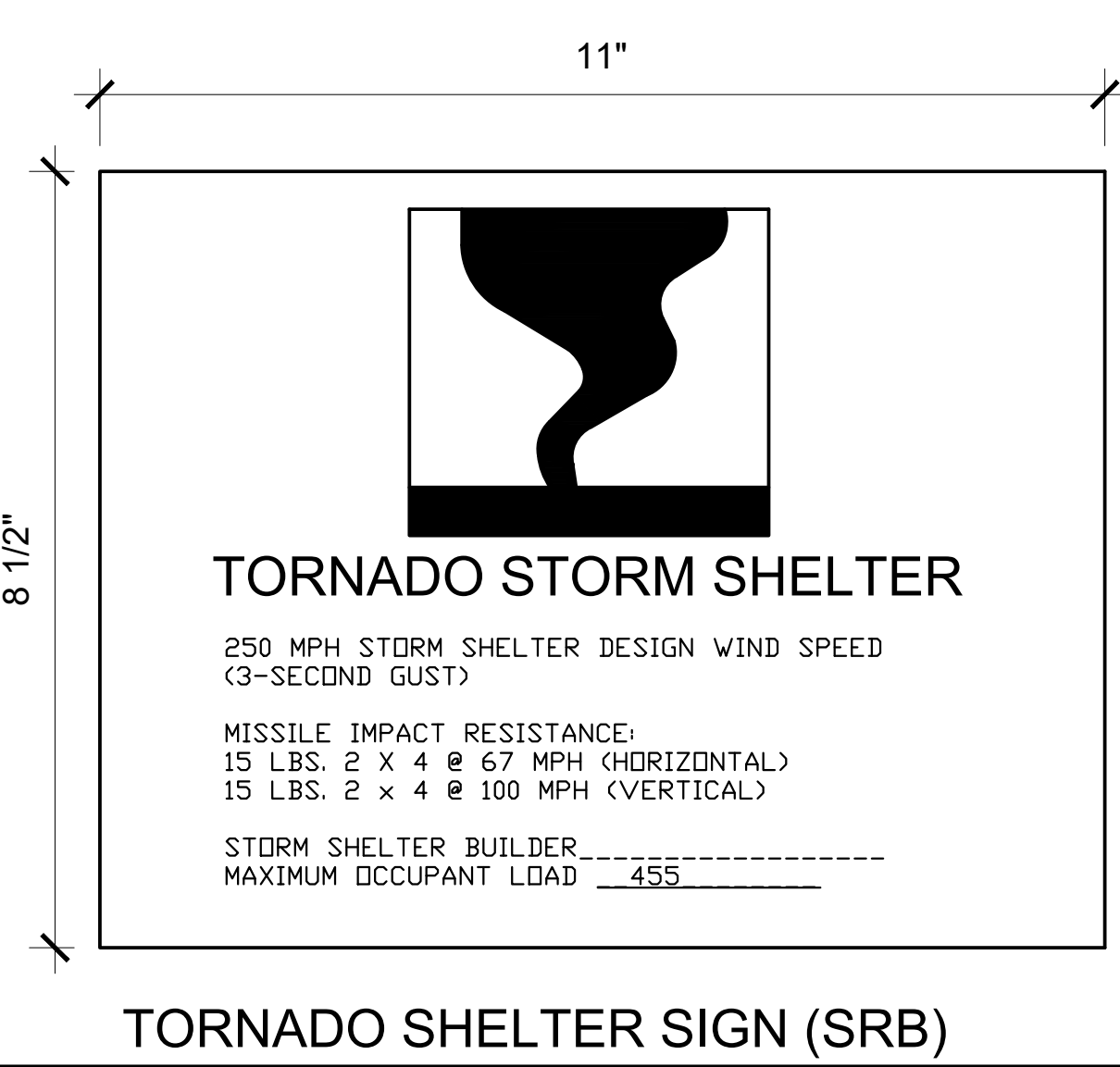
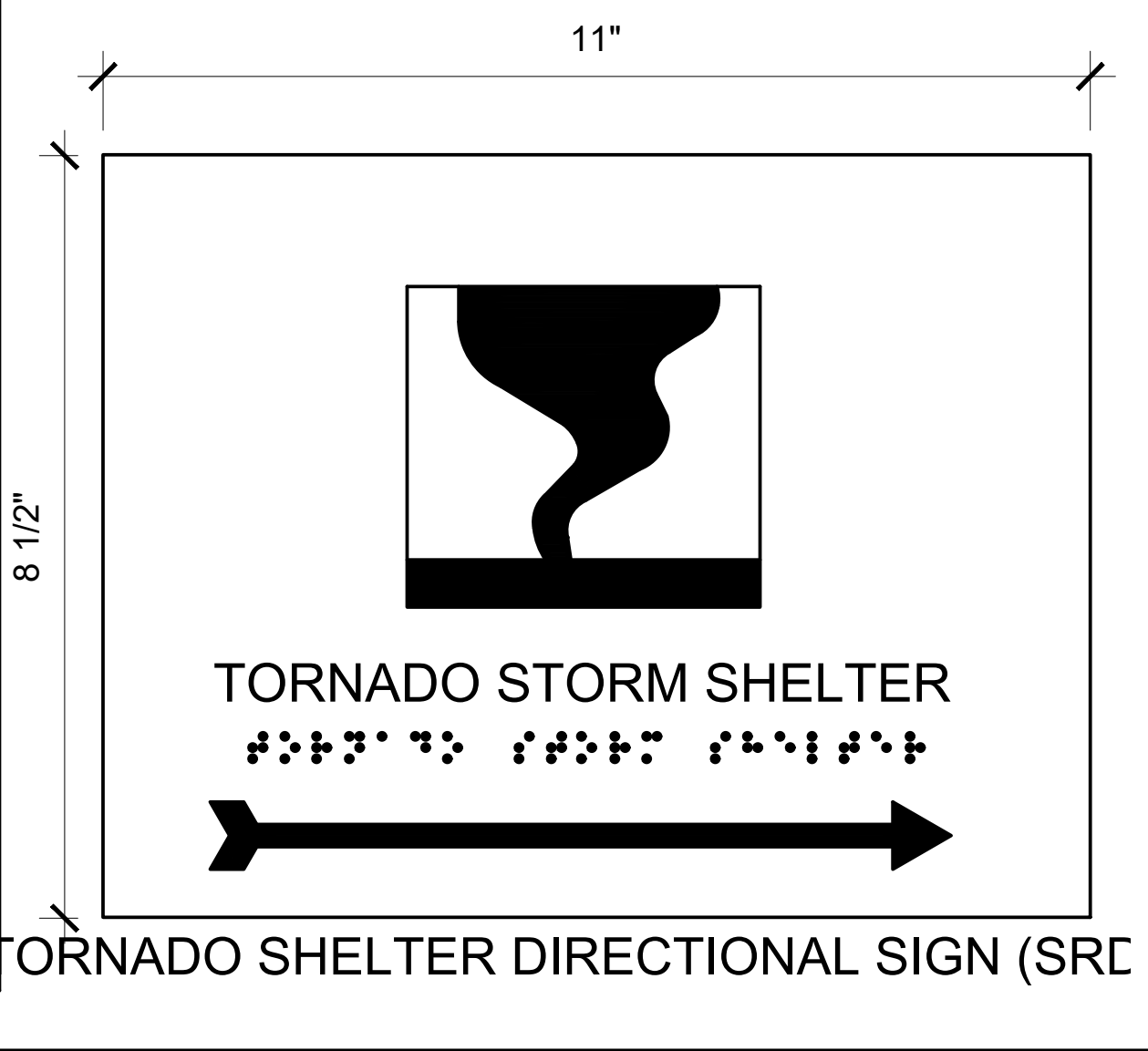
TORNADO SHELTER LOAD CALCULATIONS
GROSS AREA OF INSTRUCTIONAL SPACE DIVIDED BY 30

INSTRUCTIONAL SPACE	AREA SQ. FT.	TOTAL OCC. LOAD
CLASSROOMS	9010	300
MEDIA CENTER	1526	51
TOTAL AREA	10536	2
HANDICAP UP TO 200 (2 OCC)		
TOTAL STUD. OCC. LOAD		351
10% FOR STAFF		35
TOTAL SHELTER OCC. LOAD		386
TOTAL SHELTER OCC. ALLOWABLE LOAD 445 OVERAGE 59		

SHELTER OCCUPANT LOAD				
TORNADO SHELTER USABLE AREA				
USABLE TORNADO SHELTER AREA CALCULATIONS				
SHELTER SPACE	SQ. FT.	USABLE REDUCTION FACTOR	USABLE SQ. FT. EACH	TOTAL USABLE SQ. FT.
CLASSROOMS	1629	0.85	1385	
CORRIDOR 101A	584	1	584	
TEACHERS LOUNGE	272	1	272	
TOTAL USABLE AREA				2246
TORNADO SHELTER DESIGN OCCUPANT CAPACITY (ICC 500, TABLE 502.3)				
TORNADO SHELTER DESIGN OCCUPANT CAPACITY BETWEEN 1 and 200 OCCUPANTS WILL REQUIRE 2 WHEELCHAIR SPACES (502.3).				
SPACE FOR WHEELCHAIR OCCUPANTS 2 x 10 SQ. FT. = 20 SQ. FT.				
REMAINING AREA FOR NON WHEELCHAIR OCCUPANTS 2246 - 20 = 2226 MAX. NUMBER OF STANDING OR SITTING OCCUPANTS 2226/5 = 445 OCCUPANTS.				
SHELTER OCC. LOAD REQUIRED = 411 OCCUPANTS				
PLUMBING CALCULATIONS TORNADO SHELTER				
4012 SQ FT / 5 NET PER PERSON = 400 OCCUPANTS				
TOILET FIXTURES (TABLE 702.3) ICC 500 (2 TOILETS MINIMUM) (1 PER 250 FOR 1ST 500 OCC.); 2 REQUIRED				
TOTAL TOILET FIXTURES: 2 REQUIRED, 2 PROVIDED				
LAVATORIES (TABLE 702.3) ICC 500 (1 PER 1,000 OCC.) 1 REQUIRED 2 PROVIDED				

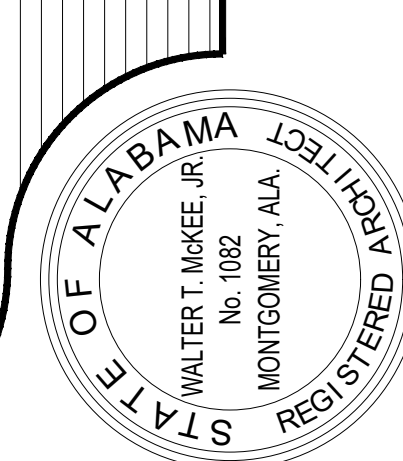
TORNADO SHELTER DESIGN INFORMATION	
WIND AND DESIGN LOAD	
DESIGN WIND SPEED	250 MPH
WIND IMPORTANCE FACTOR, I	1.0
WIND EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT, C _{pi}	+/-0.55
TOPOGRAPHIC FACTOR, K _z	1.0
WIND DIRECTIONALITY FACTOR, K _d	1.0
MISSILE IMPACT CRITERIA	100 MPH ON VERTICAL SURFACES 67 MPH ON HORIZONTAL SURFACES
ROOF LIVE LOAD	100 PSF
VENTING AREA (SQ. IN.)	CITING EXCEPTION 304.8 2006 ICC 500
WALL / OPENINGS / DOOR AND WINDOW ASSEMBLIES	
DOOR / ALCOVES / RAFFLED ENTRY	TESTING IN COMPLIANCE WITH ICC-500
WALLS AND ROOF SYSTEMS	TESTING IN COMPLIANCE WITH ICC-500 OR APPENDIX E FEMA 361
GLAZING SYSTEMS	WINDOWS COMPLYING WITH ICC-500
OPENING PROTECTIVES - LOUVERS OR VENTS	TESTING IN COMPLIANCE WITH ICC-500
FLOOD HAZARDS	
SPECIAL FLOOD HAZARD AREA	NO
WITHIN 0.2% OF SFPA	NO
SHELTER AREA FLOOR ELEVATION	630.02

TORNADO SHELTER LEGEND	
SYMBOL	DESCRIPTION
	OVERALL SHELTER CONSTRUCTION LIMITS
	EXTENTS OF USABLE SHELTER AREA
	TWO HOUR FIRE BARRIER WITH 90 MINUTE OPENING PROTECTIVES
	TORNADO SHELTER ROOM SIGNAGE IN ACCORDANCE WITH ICC 500 - SECTION 504.1.1 & ALABAMA BUILDING COMMISSION BULLETIN JULY 29, 2010. SUBJECT: ADDITIONAL GUIDANCE ON ICC 500 REQUIREMENTS, ATTACHMENT D SHELTER LOCATION SIGNAGE
	ROOM DOOR SIGN - INSTALL ADJACENT TO THE LATCH SIDE DOOR JAMB
	TORNADO SHELTER ROOM DESIGN INFORMATION SIGNAGE IN ACCORDANCE WITH ICC 500 - SECTION 108.1 & ALABAMA BUILDING COMMISSION BULLETIN DATED JULY 29, 2010. SUBJECT: ADDITIONAL GUIDANCE ON ICC 500 REQUIREMENTS ITEM #6 SHELTER SIGNAGE, AND ATTACHMENT C DESIGN INFORMATION SHELTER SIGNAGE.
	POST OCCUPANT LOAD FOR EACH OCCUPIED SPACE WITHIN SHELTER, POST TOTAL OCCUPANT LOAD OF SHELTER AT "MAIN" DOORS OF SHELTER
	FIRST AID KIT / NUMBER OF KITS (SEE SPECIFICATIONS)
	TORNADO SHELTER ROOM IDENTIFYING SIGNAGE, SIGN INDICATION IN ACCORDANCE WITH ICC 500 - SECTION 504.1.2



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SHEET TITLE: SHELTER CODE PLAN

MCKEE JOB #: 22-315

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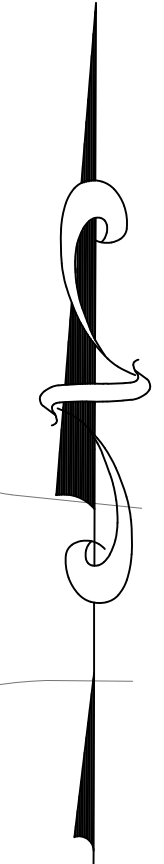
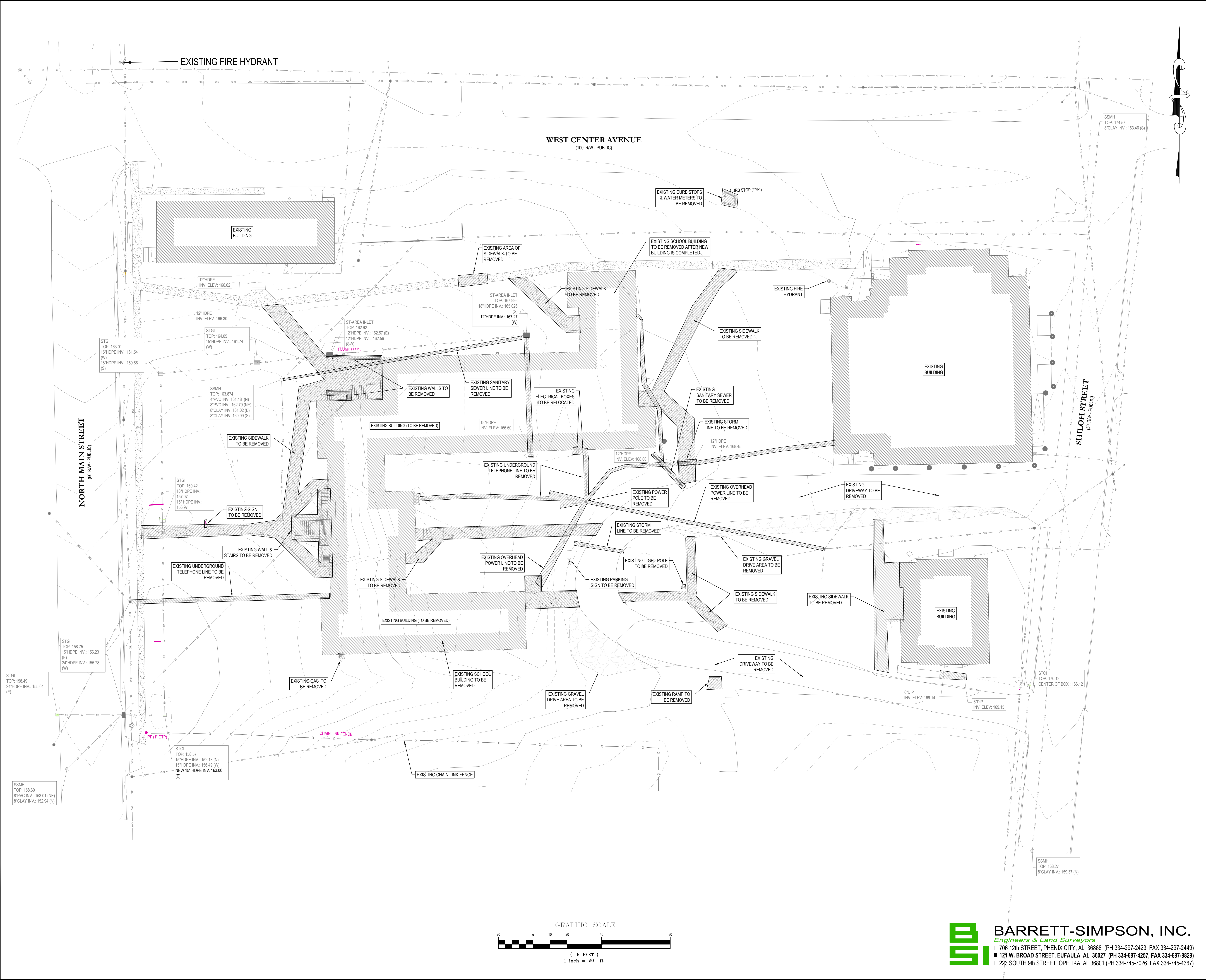
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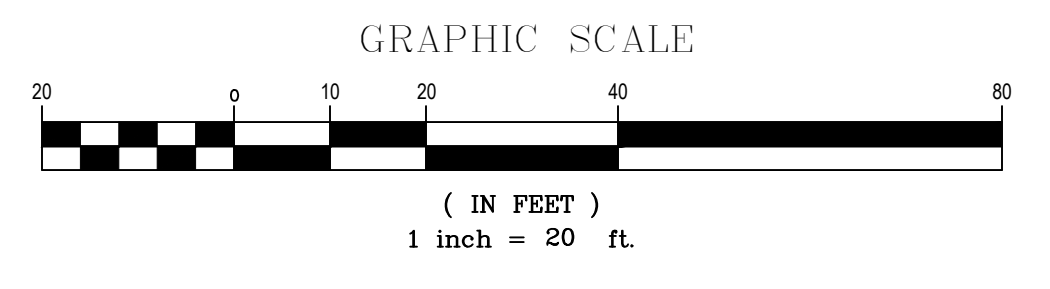
SHEET TITLE : DEMOLITION PLAN

 MCKEE JOB # : 22-315

 DRAWN BY : RPF, MH
 DATE : 08/27/2024

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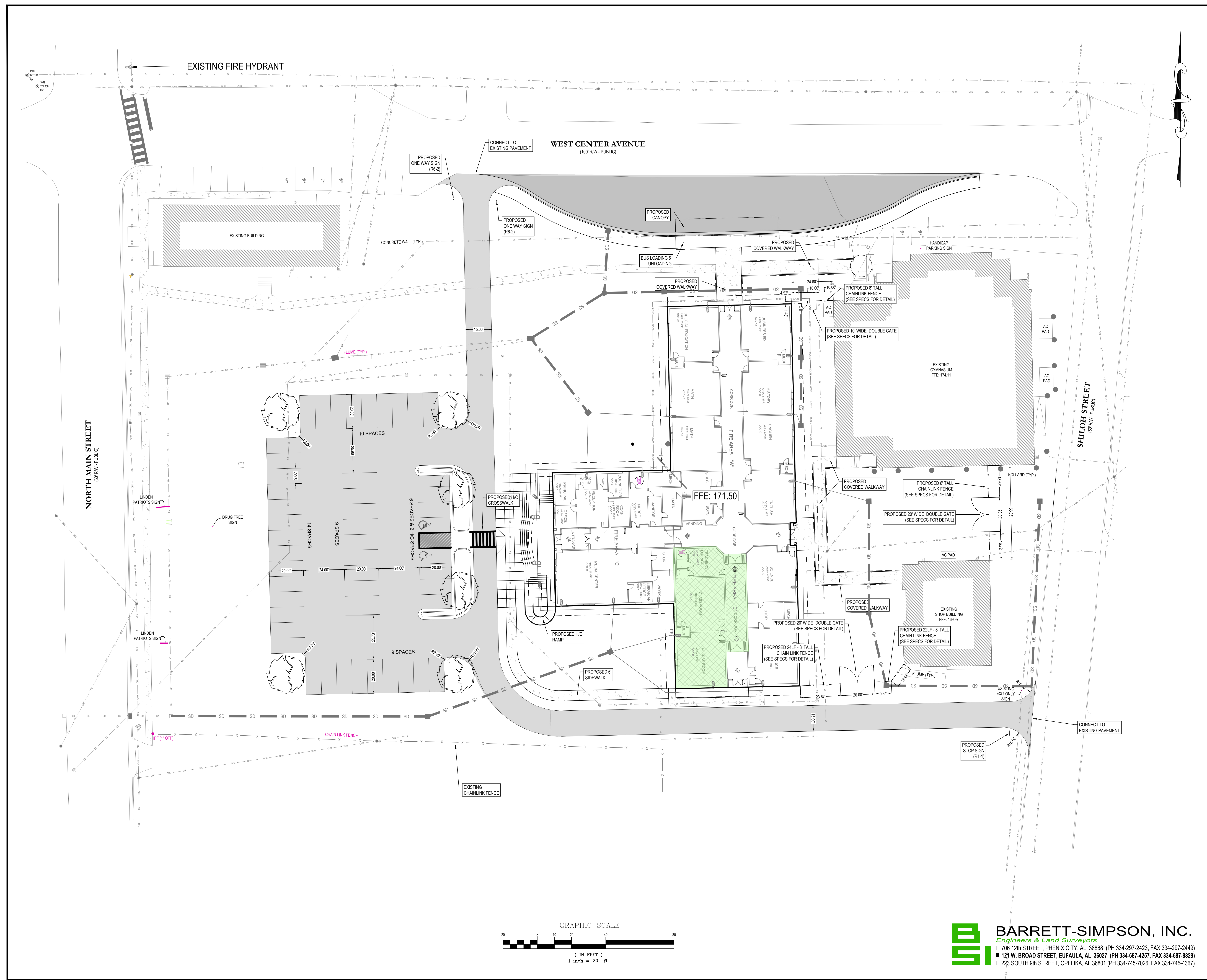
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 223 SOUTH 9th STREET, OPELIKA, AL 36801 (PH 334-745-7026, FAX 334-745-4367)

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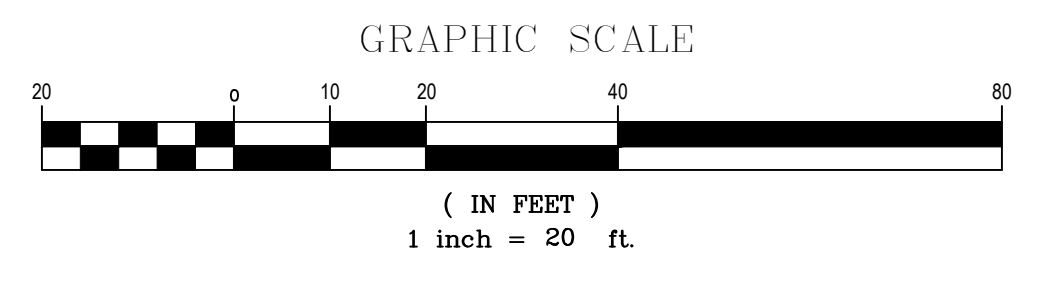
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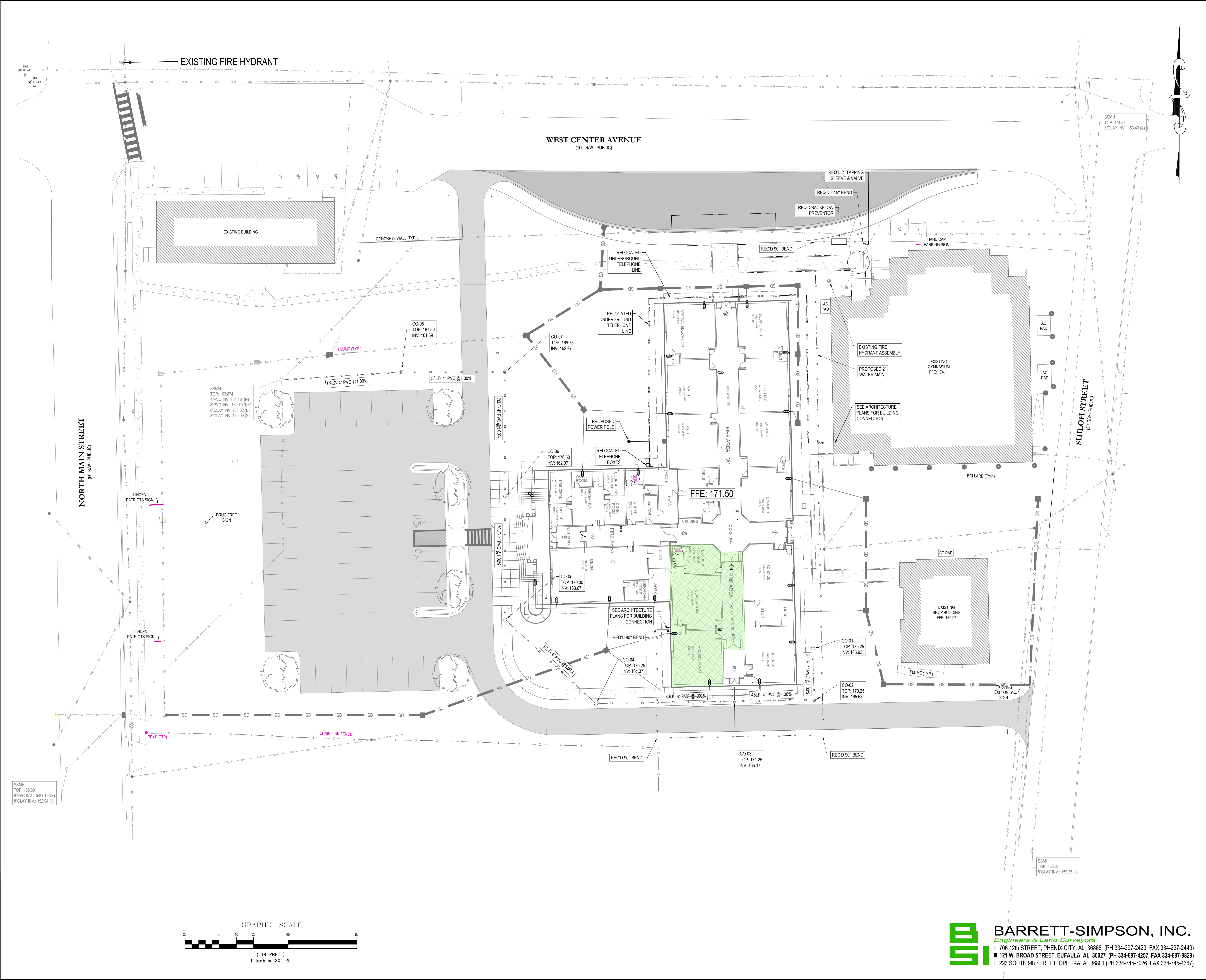
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SHEET TITLE : PROPOSED SITE PLAN
 MCKEE JOB # : 22-315
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SHEET TITLE : PROPOSED UTILITY PLAN

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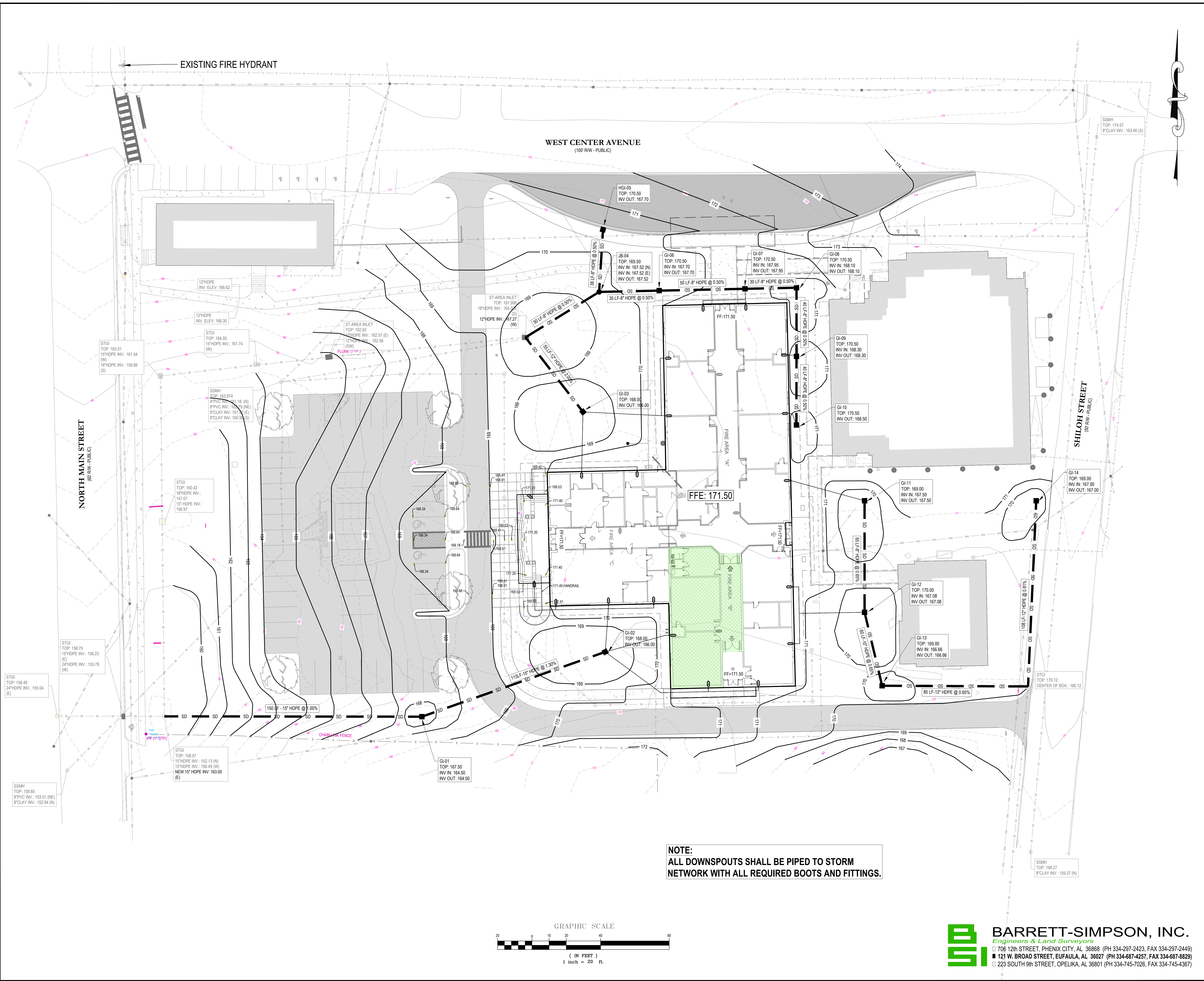
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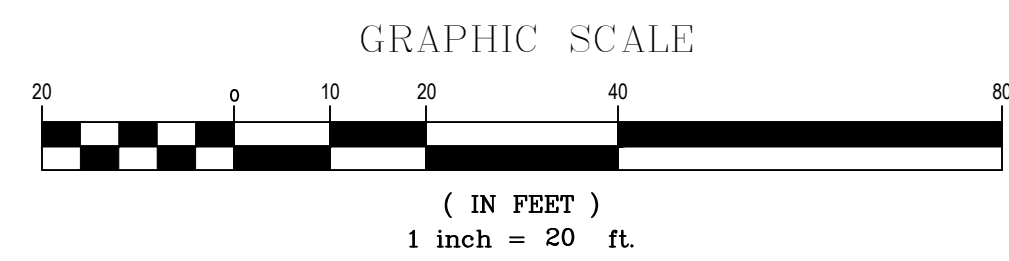
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NOTE:
 ALL DOWNSPOUTS SHALL BE PIPED TO STORM NETWORK WITH ALL REQUIRED BOOTS AND FITTINGS.



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SHEET TITLE : PROPOSED GRADING PLAN

MCKEE JOB # : 22-315

DRAWN BY : RPF , MH

DATE : 08/27/2024

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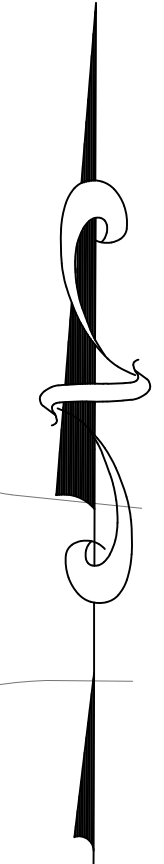
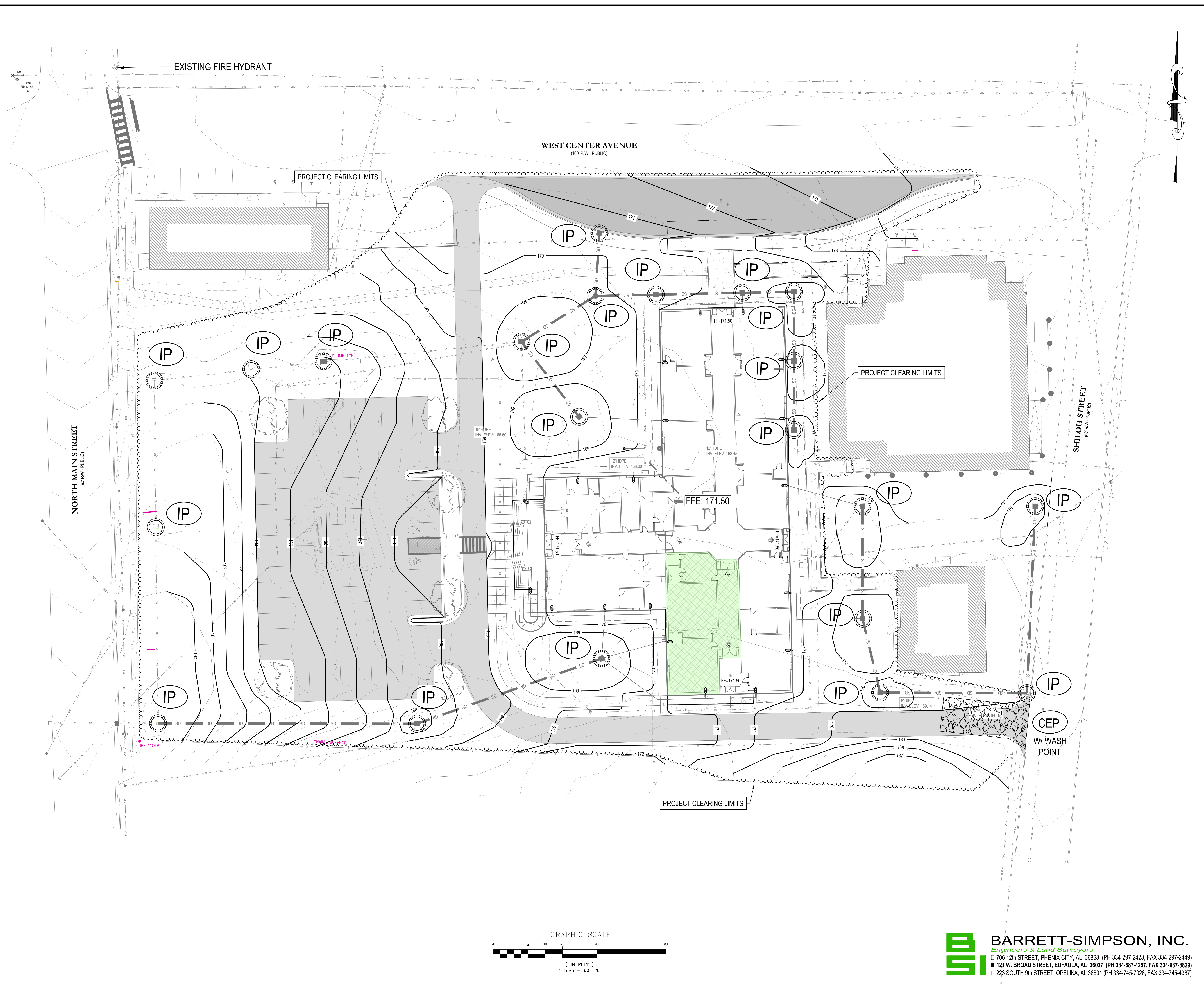
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SHEET NO. : C4

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SHEET TITLE : PROPOSED EROSION CONTROL PLAN

MCKEE JOB # : 22-315

DRAWN BY : RPF, MH

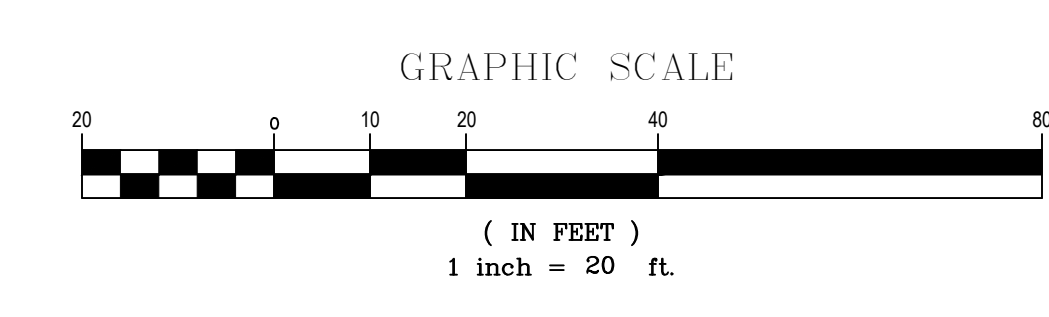
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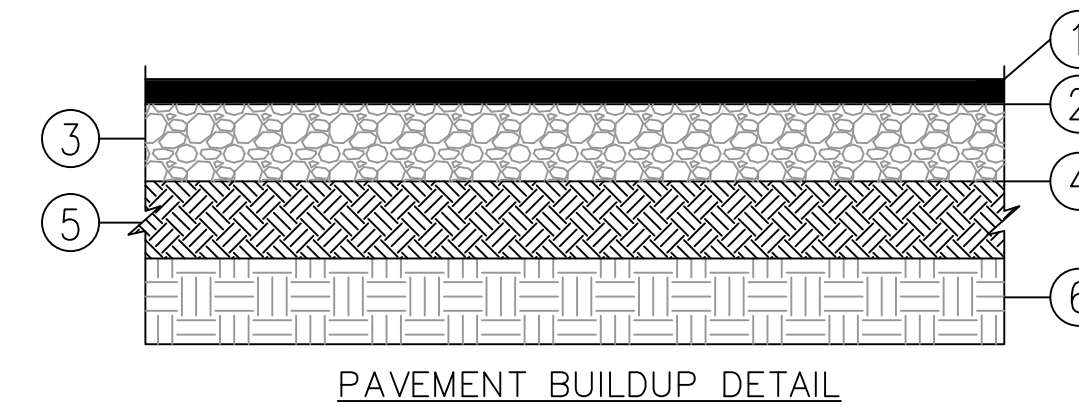
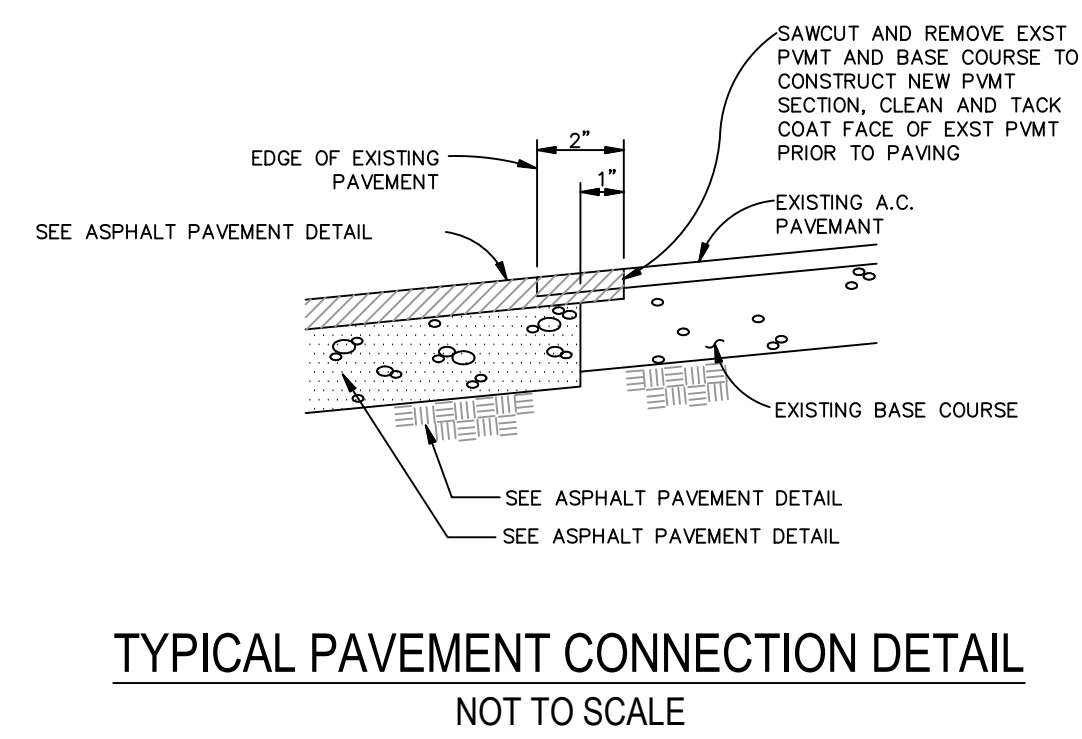
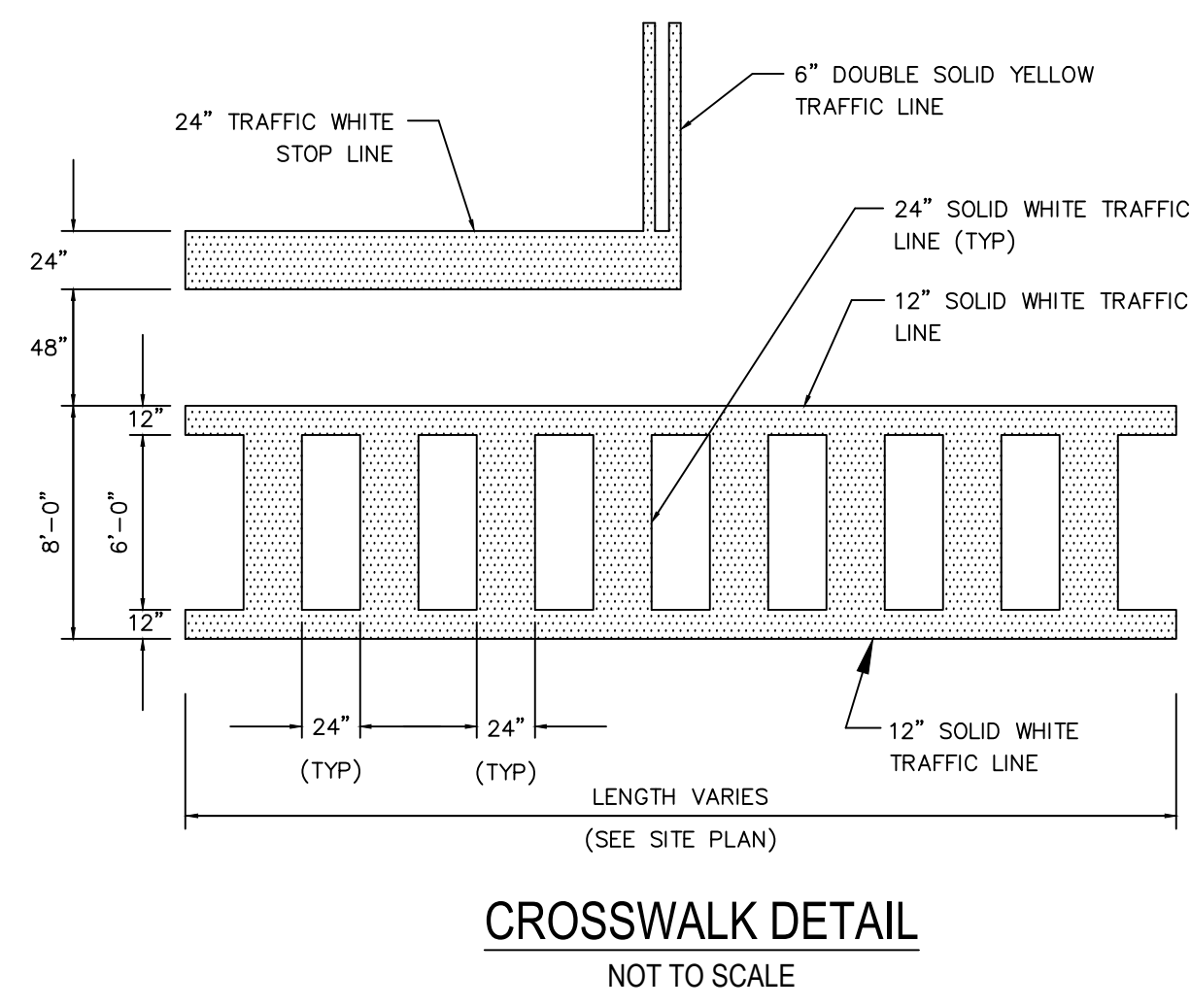
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BS **BARRETT-SIMPSON, INC.**
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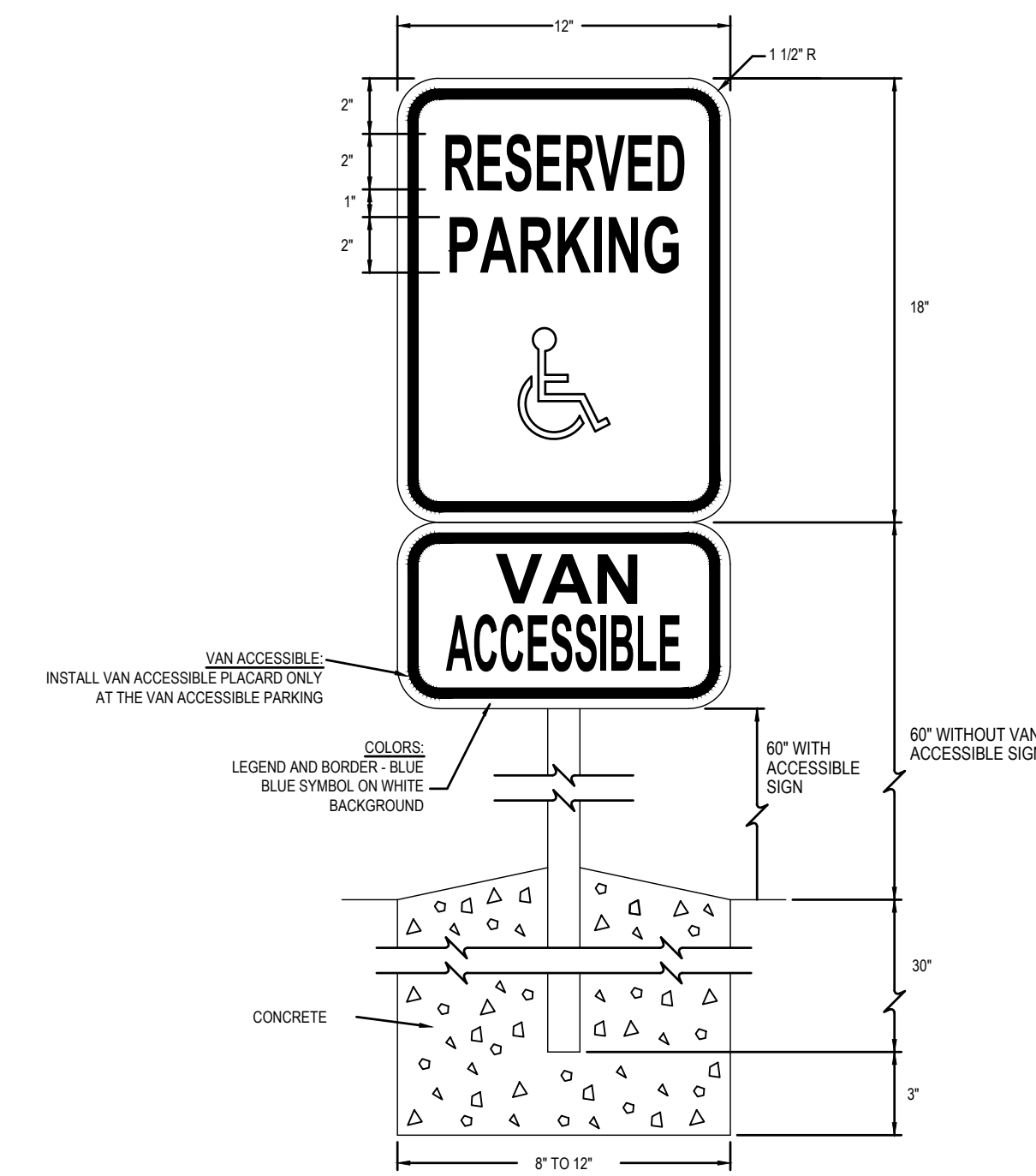
706 12th STREET, PHENIX CITY, AL 36868 (PH 334-297-2423, FAX 334-297-2449)
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 223 SOUTH 9th STREET, OPELIKA, AL 36801 (PH 334-745-7026, FAX 334-745-4367)

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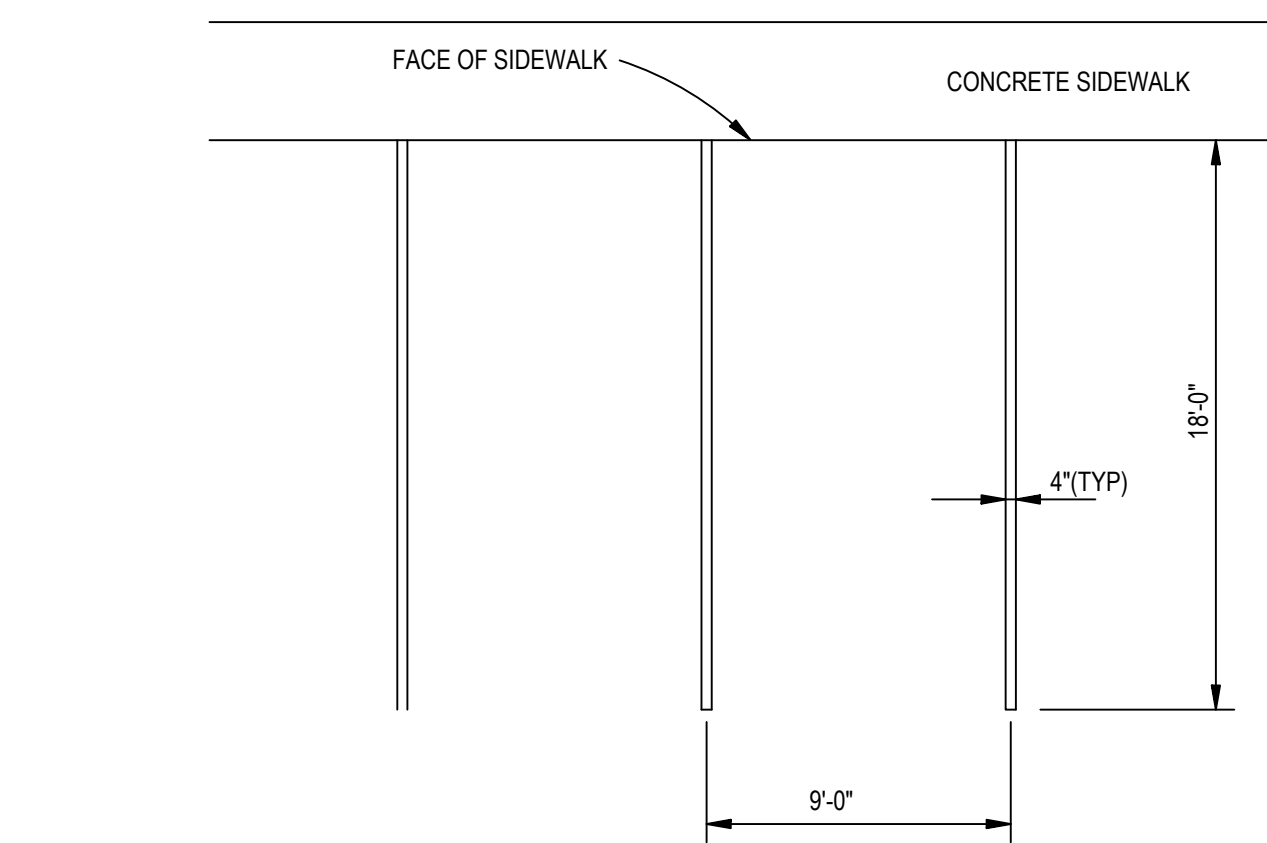


- LEGEND:
- 1 ALDOT 429A ASPHALT WEARING SURFACE (1")
 - 2 ALDOT 405 TACK COAT
 - 3 ALDOT 429B BINDER (3")
 - 4 ALDOT 401 PRIME COAT
 - 5 ALDOT SOIL AGGREGATE 100% COMPACTION (6")
 - 6 IMPROVED SUB-GRADE 98% COMPACTION (TOP 6")

ASPHALT PAVEMENT DETAIL
NOT TO SCALE

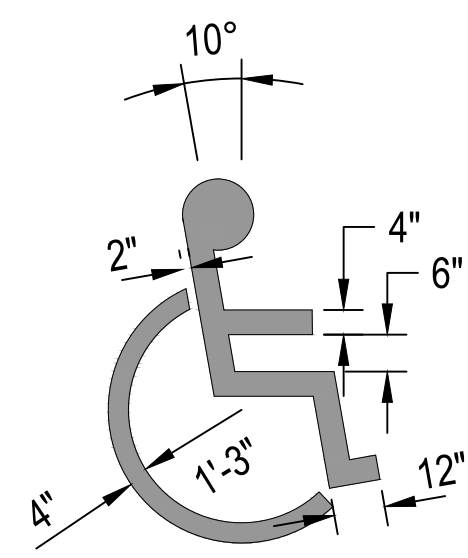


HANDICAP PARKING SIGN DETAIL
NOT TO SCALE

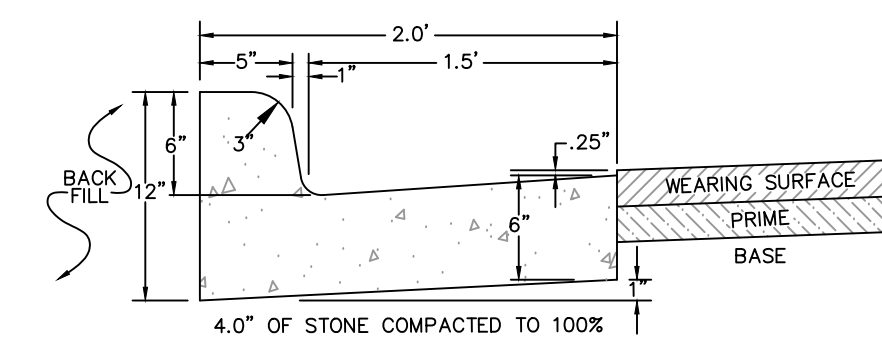


NOTE: 4" WIDE PAVEMENT MARKINGS
TYPICAL (WHITE ON ASPHALT, YELLOW ON CONCRETE)

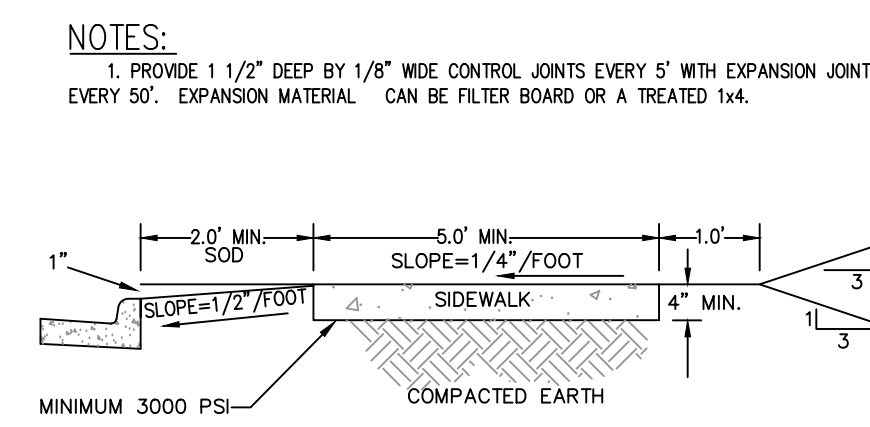
TYPICAL STRIPING DETAIL (SIDEWALK)
NOT TO SCALE



HANDICAP SYMBOL
NOT TO SCALE

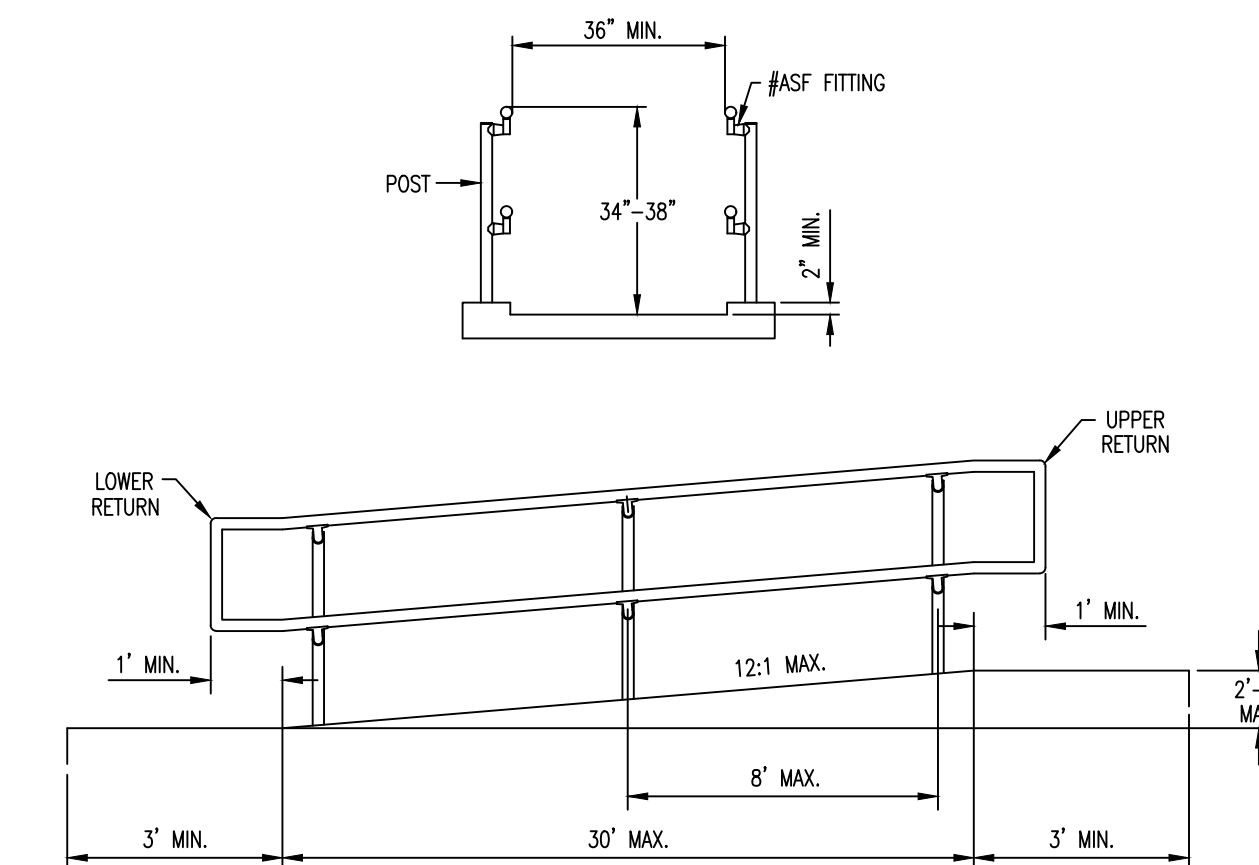


CURB & GUTTER
NOT TO SCALE

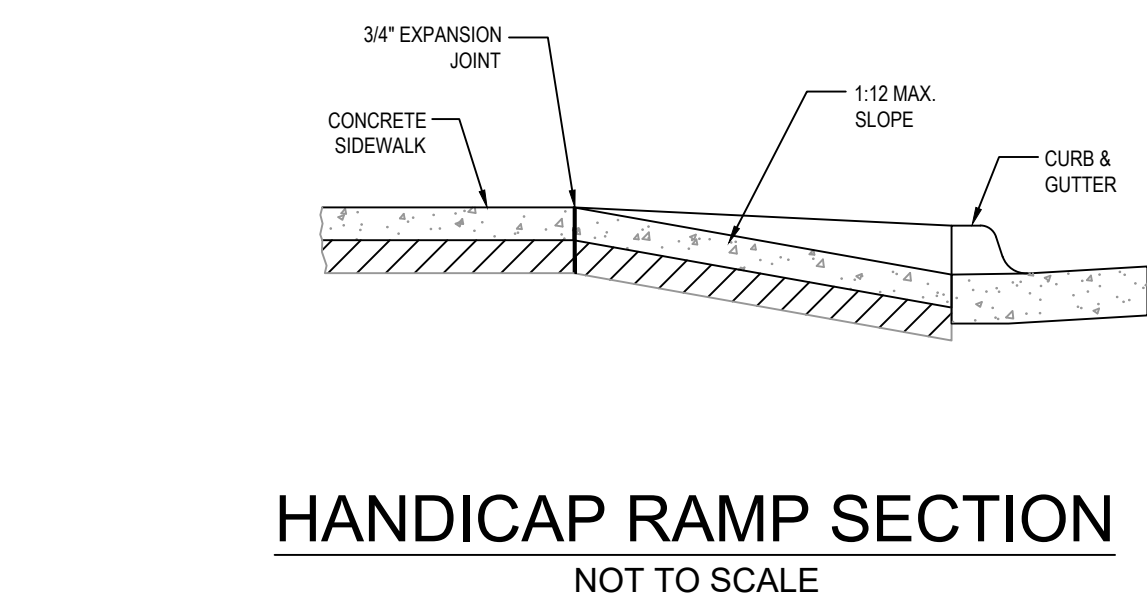


- NOTES:
1. PROVIDE 1 1/2" DEEP BY 1/8" WIDE CONTROL JOINTS EVERY 5' WITH EXPANSION JOINTS EVERY 50'. EXPANSION MATERIAL CAN BE FILTER BOARD OR A TREATED 1x4.

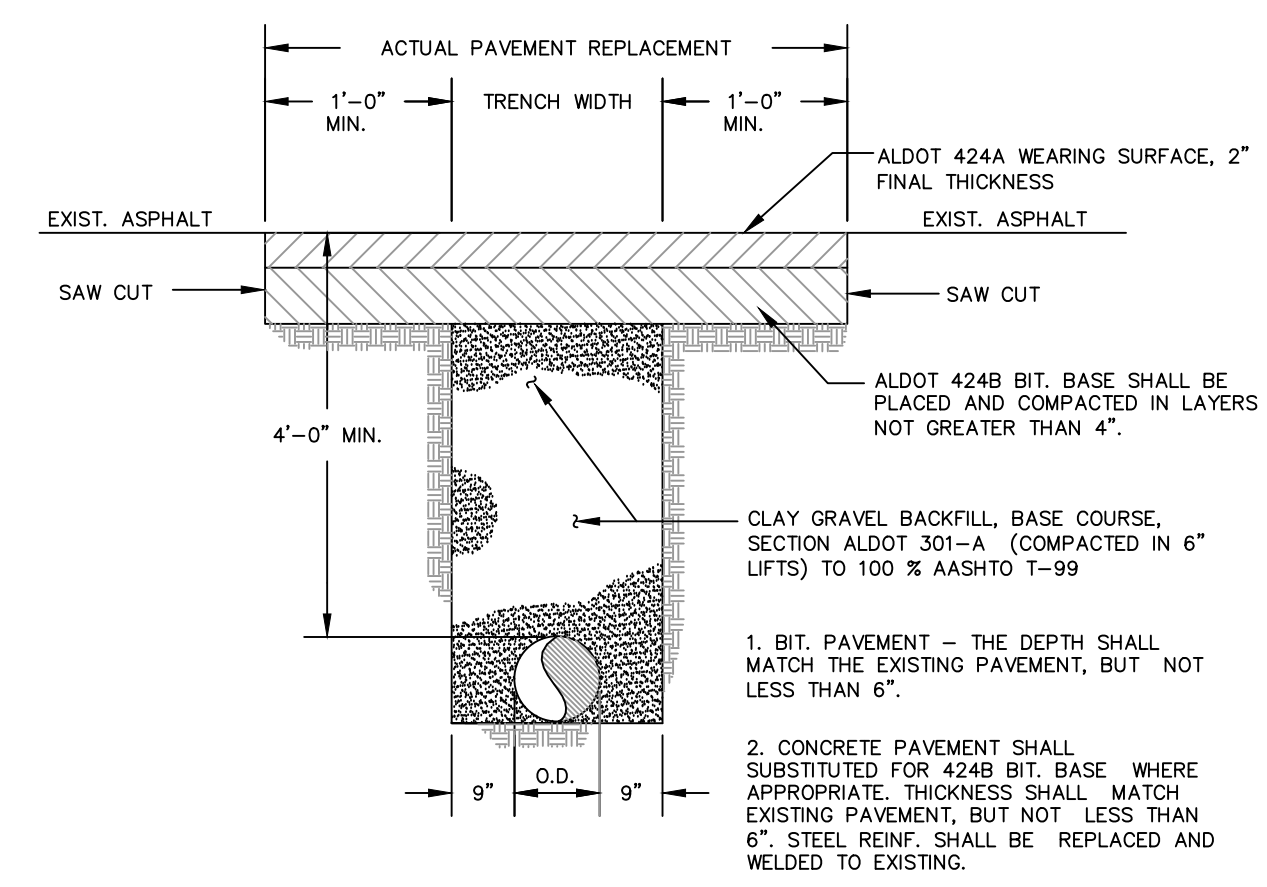
5' SIDEWALK
NOT TO SCALE



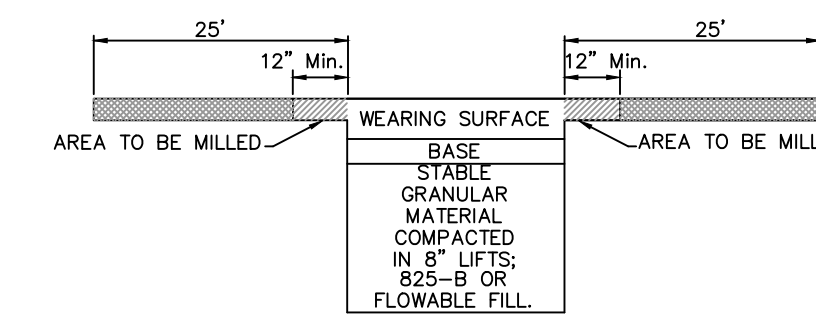
ADA COMPLIANT HANDRAIL DETAIL
NOT TO SCALE



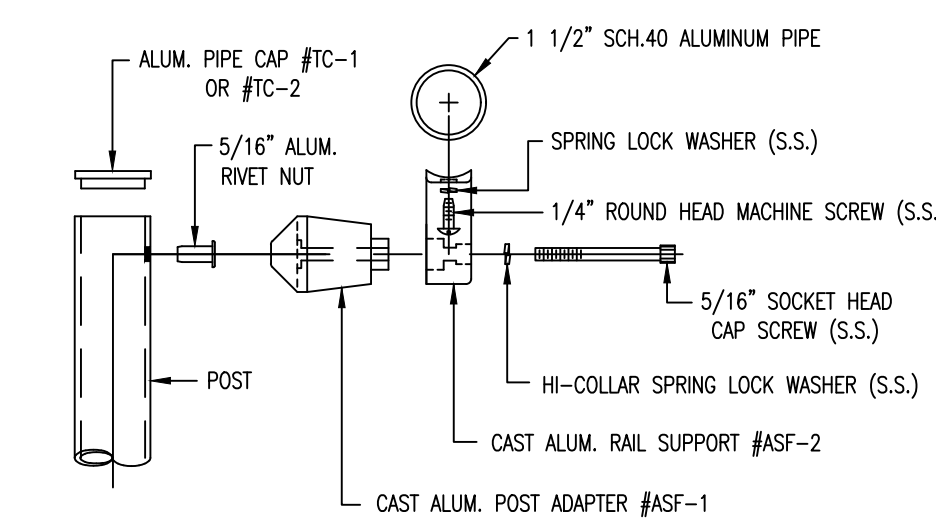
HANDICAP RAMP SECTION
NOT TO SCALE



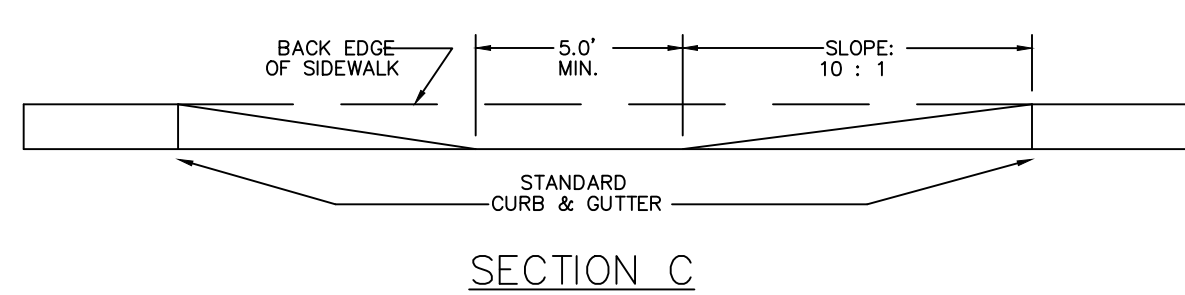
ASPHALT REPLACEMENT DETAIL
NOT TO SCALE



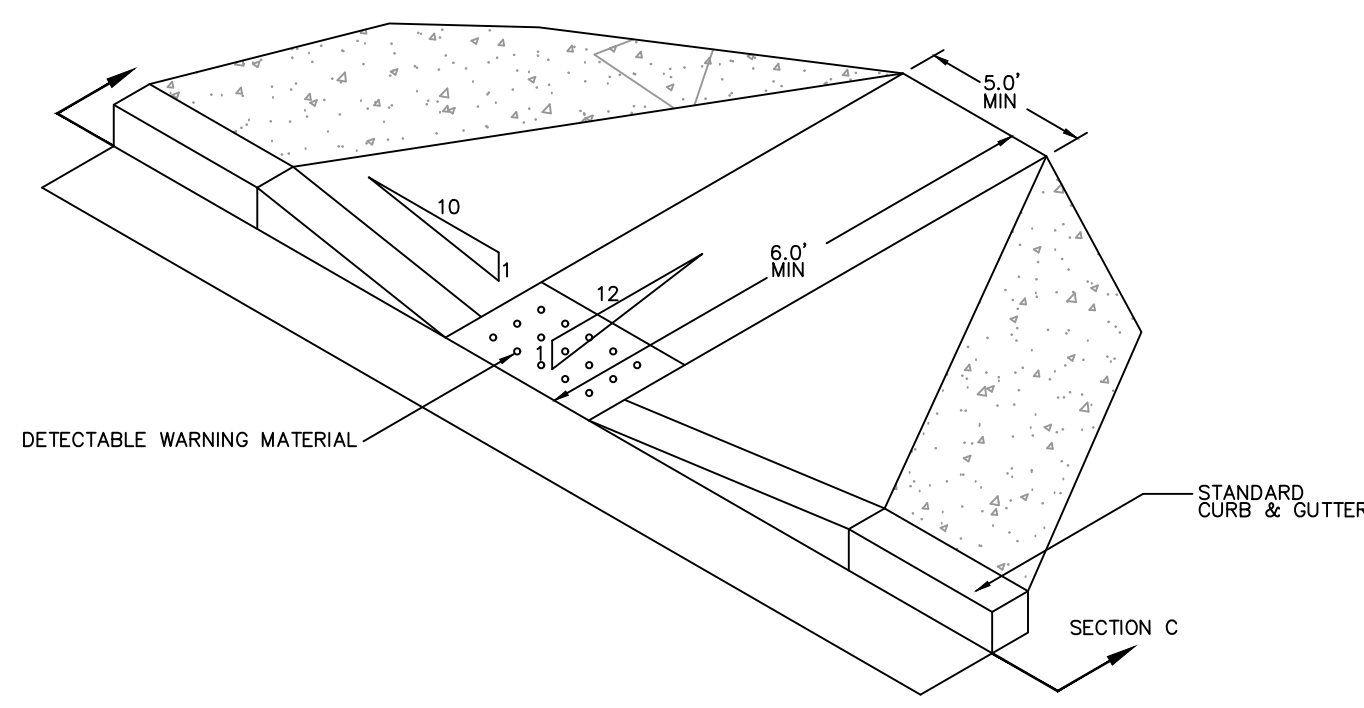
UTILITY PATCH DETAIL
NOT TO SCALE



STANDARD PIPE LAYING
CONDITION FOR WATERLINE
NOT TO SCALE



SECTION C



HANDICAP RAMP
NOT TO SCALE

ADDITION TO
LINDEN HIGH SCHOOL

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LINDEN, ALABAMA

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ARCHITECTS, INC.

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SHEET TITLE : MISCELLANEOUS DETAILS

MCKEE JOB # : 22-315

DRAWN BY : RPF, MH

DATE : 08/27/2024

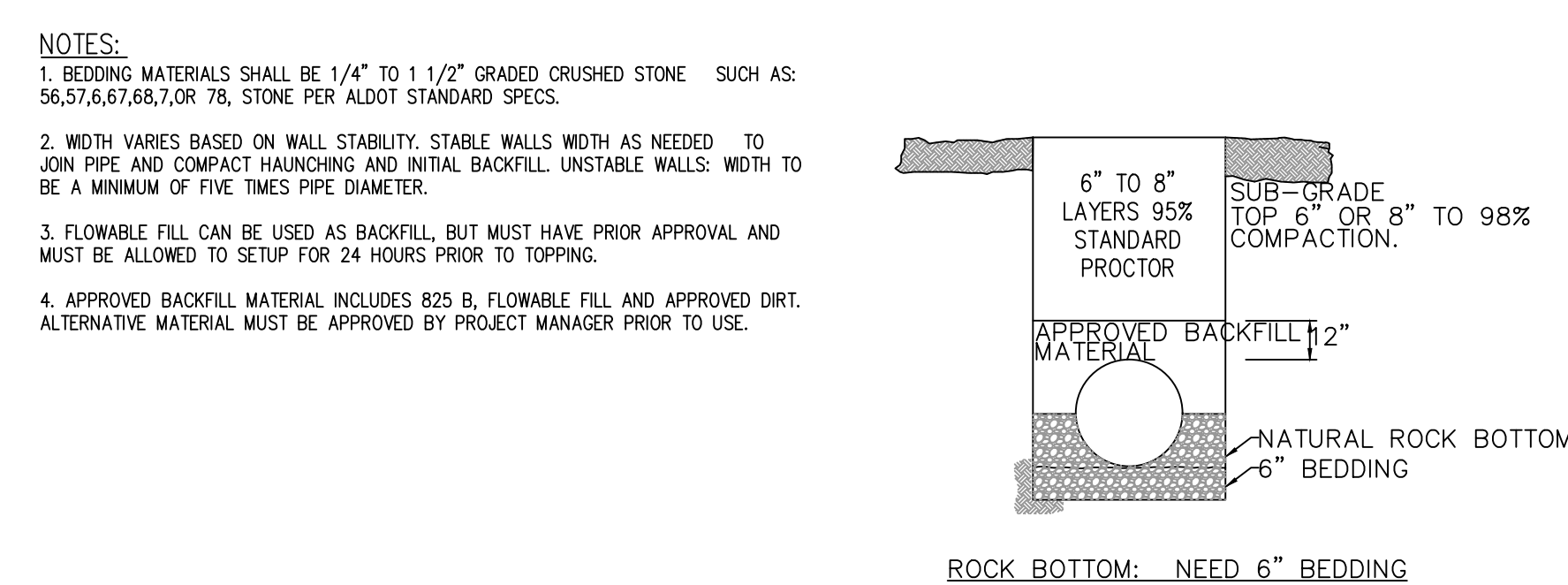
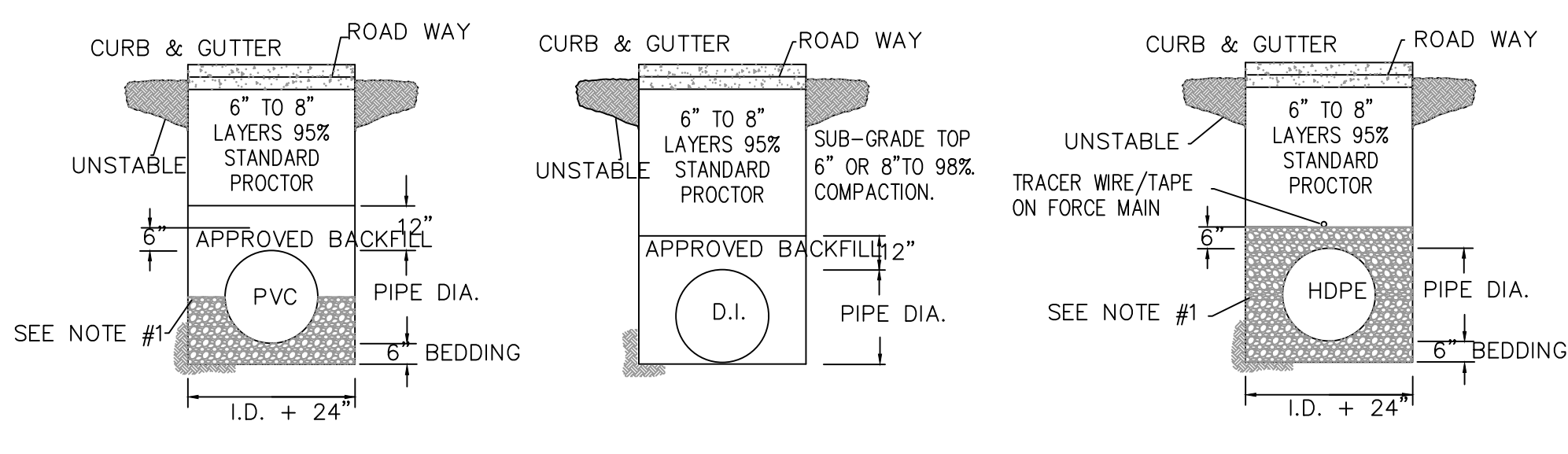
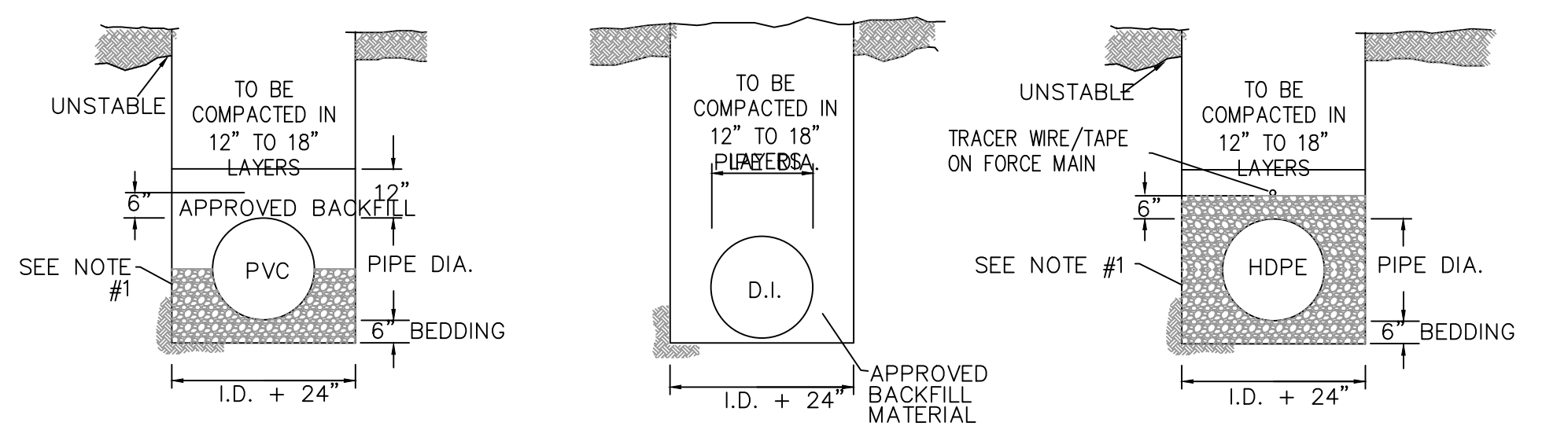
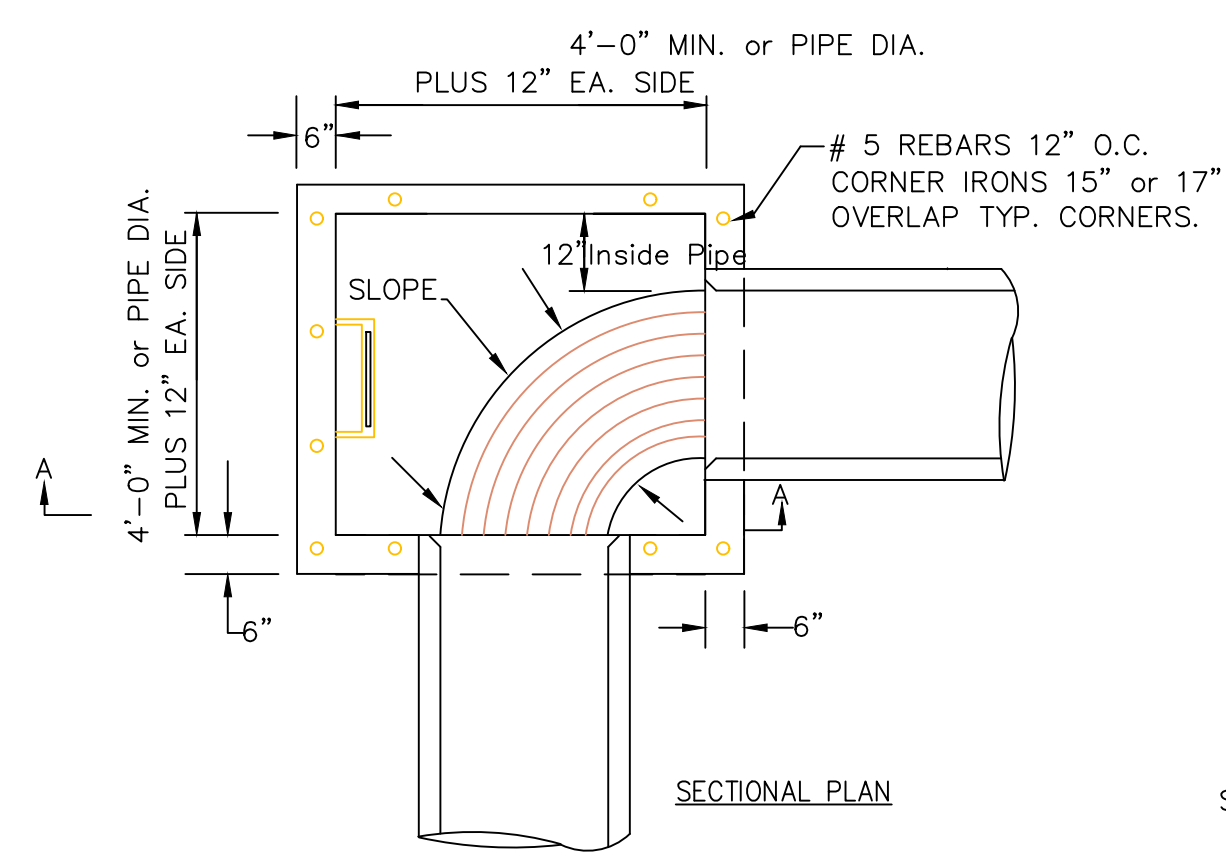
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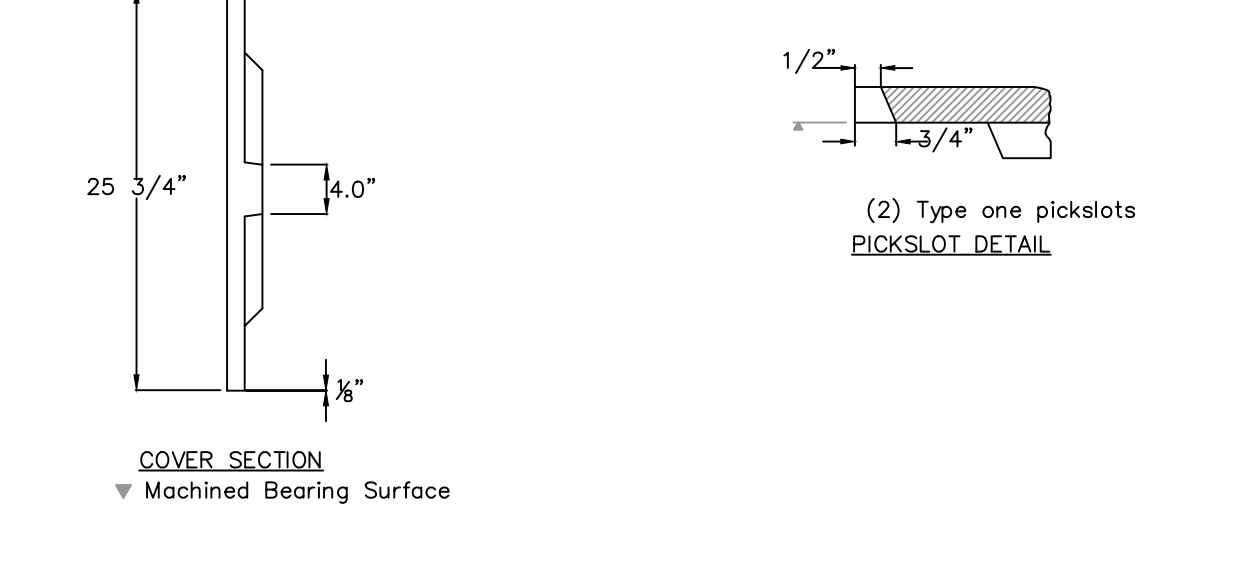
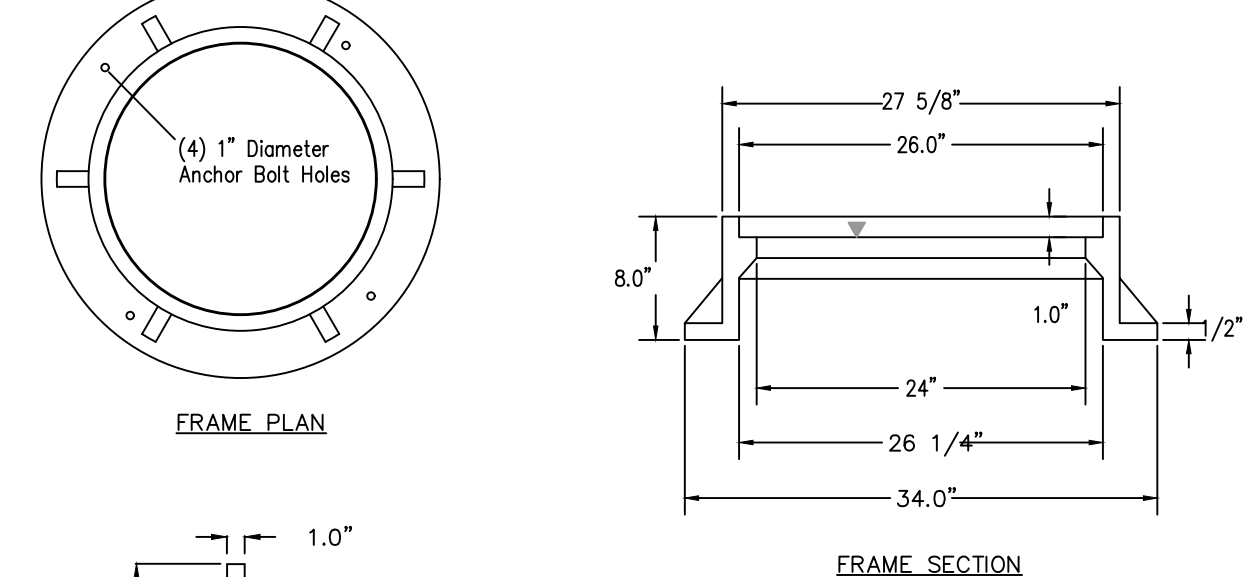
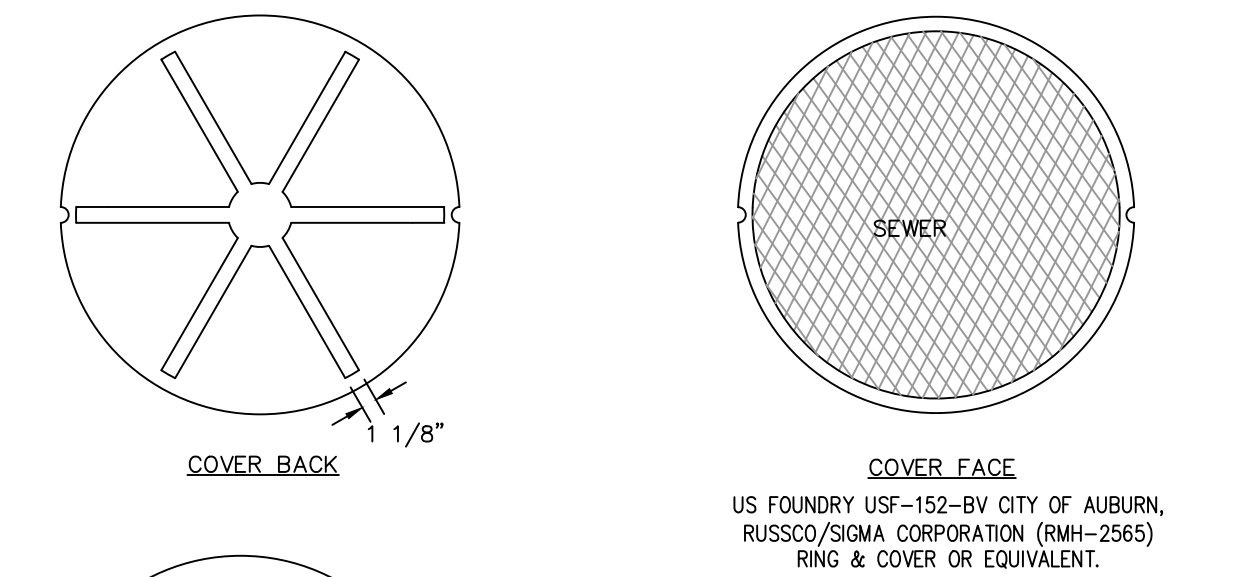
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SHEET NO. : C6

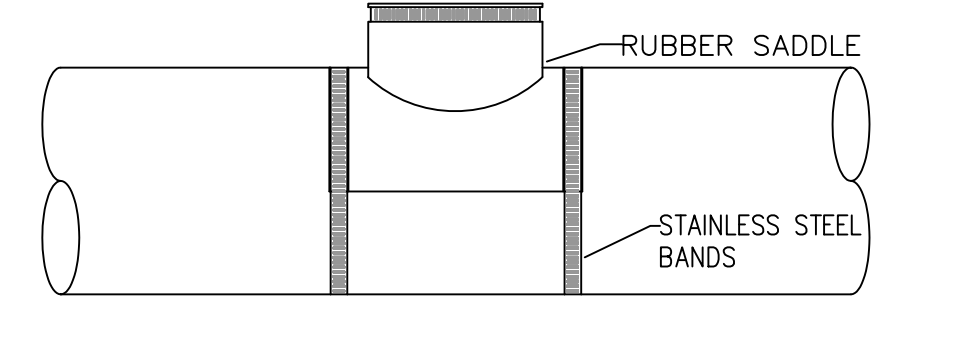
BARRETT-SIMPSON, INC.
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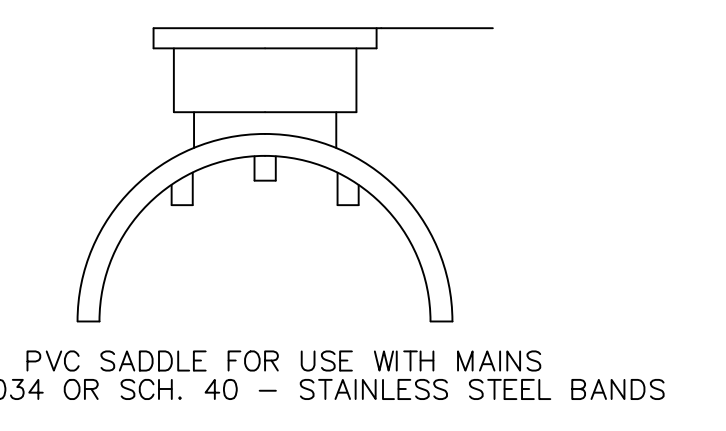
NOTES:
 1. BEDDING MATERIALS SHALL BE 1/4" TO 1 1/2" GRADED CRUSHED STONE SUCH AS: 56,57,6,67,68,70, 78, STONE PER ALODT STANDARD SPECS.
 2. WIDTH VARIES BASED ON WALL STABILITY. STABLE WALLS WIDTH AS NEEDED TO JOIN PIPE AND COMPACT HAUNCHING AND INITIAL BACKFILL. UNSTABLE WALLS WIDTH TO BE A MINIMUM OF FIVE TIMES PIPE DIAMETER.
 3. FLOWABLE FILL CAN BE USED AS BACKFILL, BUT MUST HAVE PRIOR APPROVAL AND MUST BE ALLOWED TO SETUP FOR 24 HOURS PRIOR TO TOPPING.
 4. APPROVED BACKFILL MATERIAL INCLUDES 825 B, FLOWABLE FILL AND APPROVED DIRT. ALTERNATIVE MATERIAL MUST BE APPROVED BY PROJECT MANAGER PRIOR TO USE.



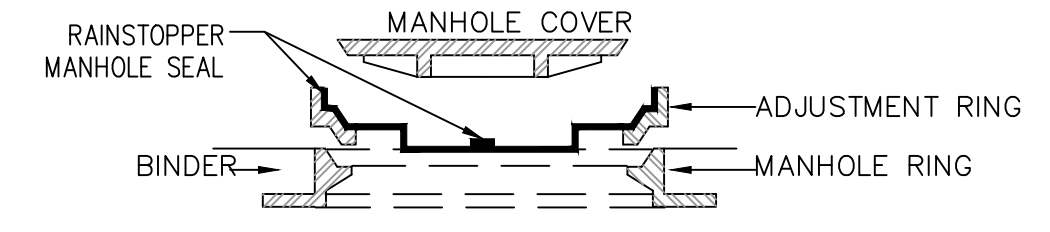
STANDARD MANHOLE RING & COVER
 NOT TO SCALE



RUBBER SADDLE WITH STAINLESS STEEL BANDS
 NOT TO SCALE

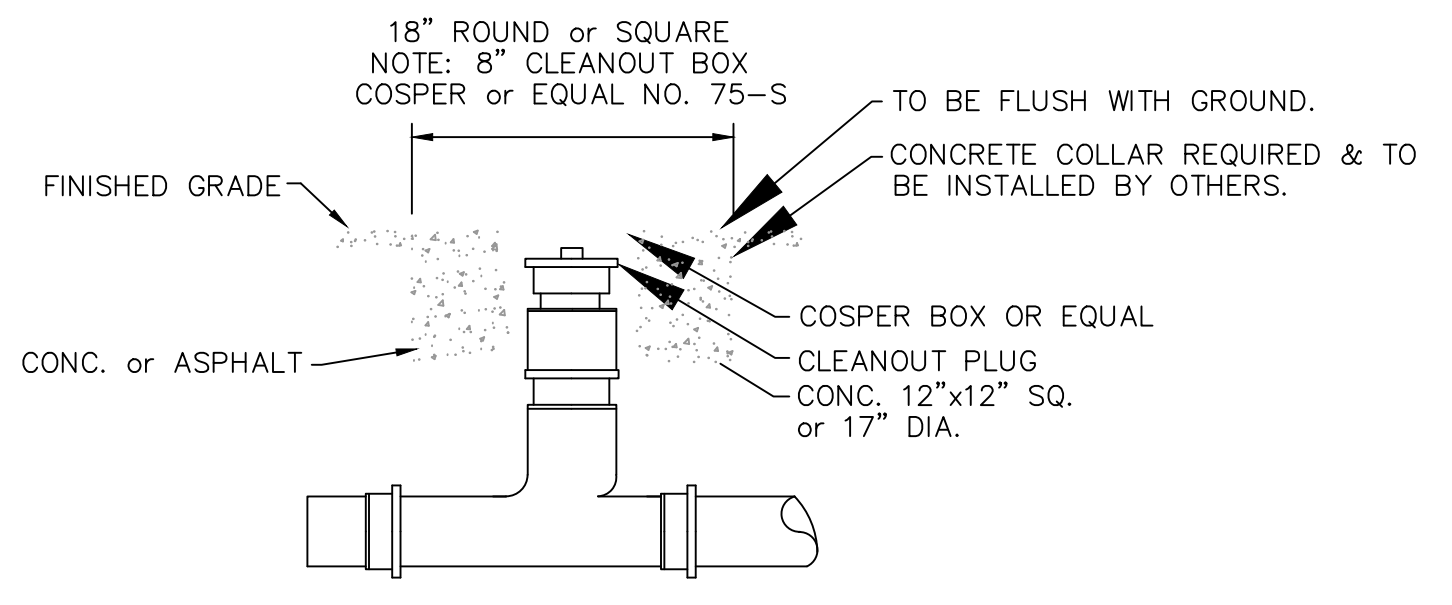


PVC SADDLE
 NOT TO SCALE

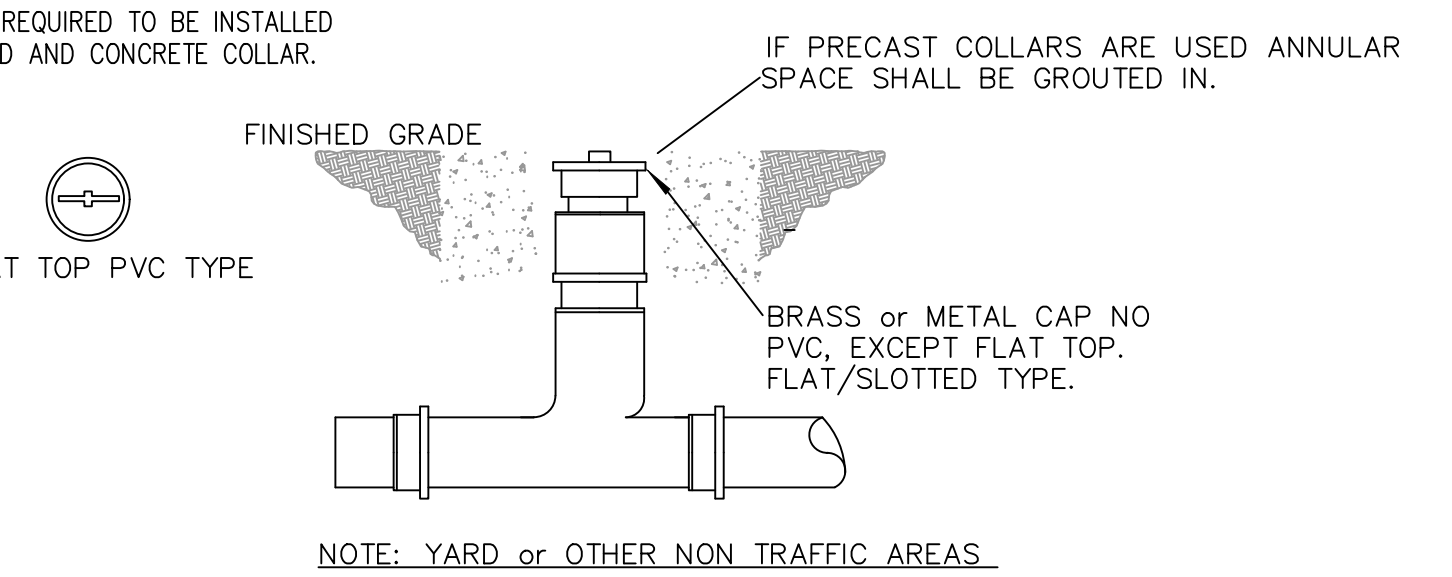


1. MANHOLE ADJUSTMENT RING R-1979 SERIES NEENAH FOUNDRY OR EQUAL
2. ONE PIECE CONSTRUCTION, NO WELDS. COATED TO PREVENT RUST.
3. MULTIPLE RISERS MUST BE WELDED TOGETHER.

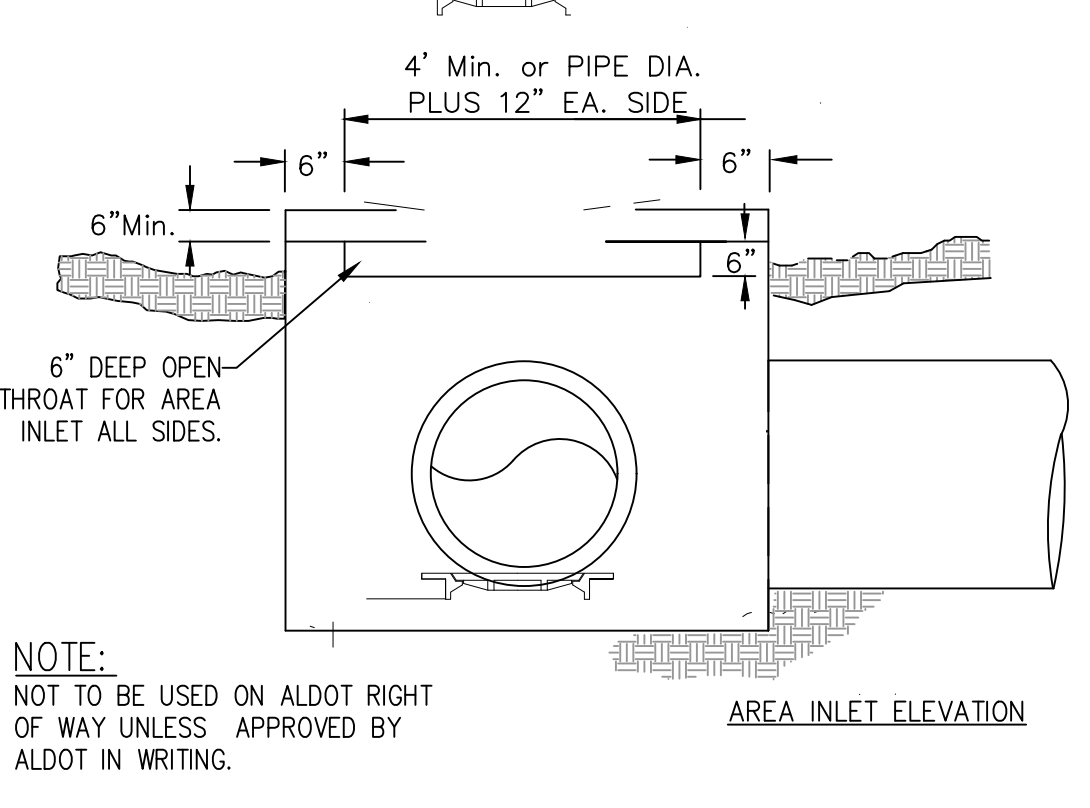
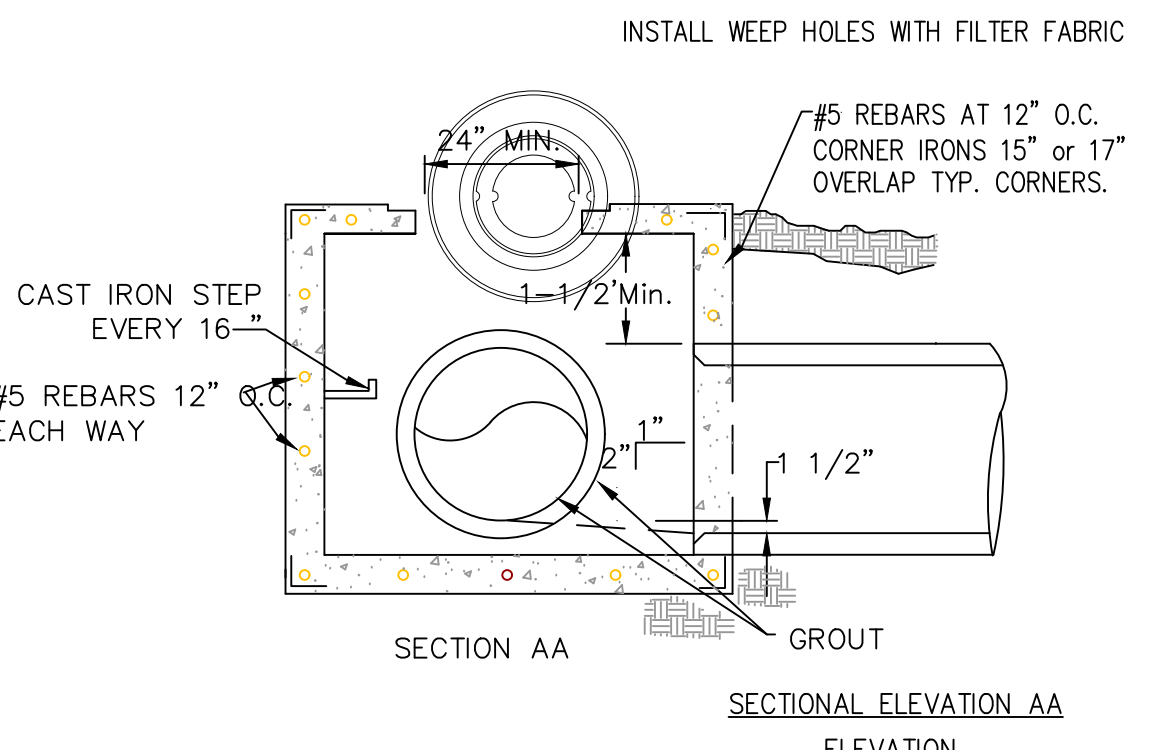
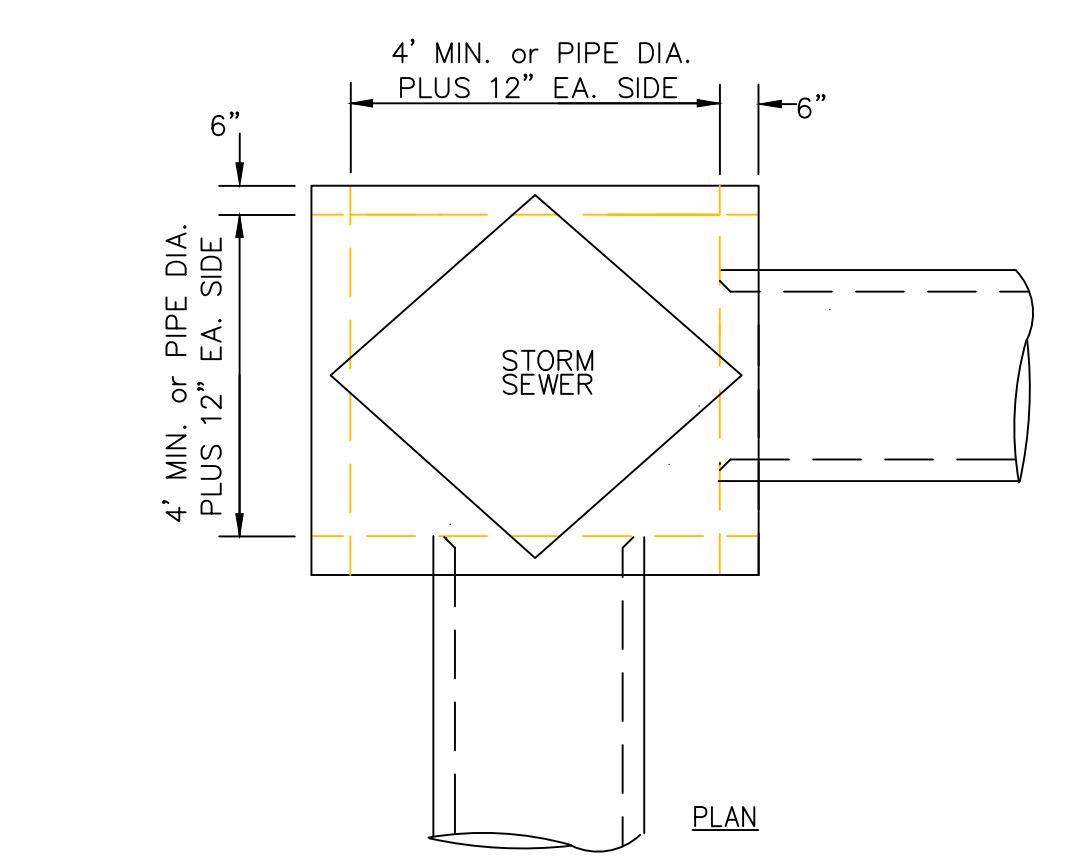
MANHOLE RISER
 NOT TO SCALE



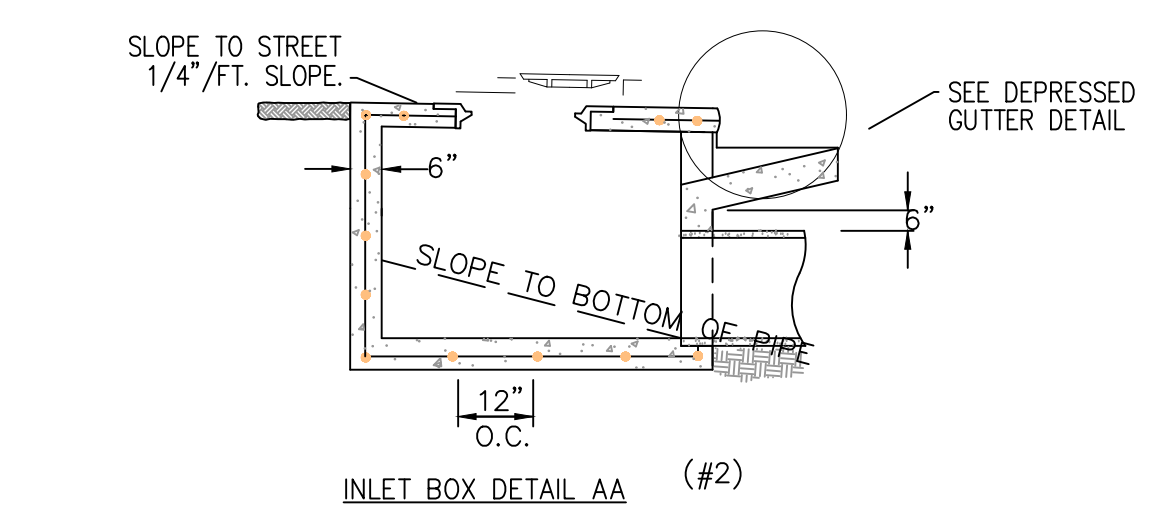
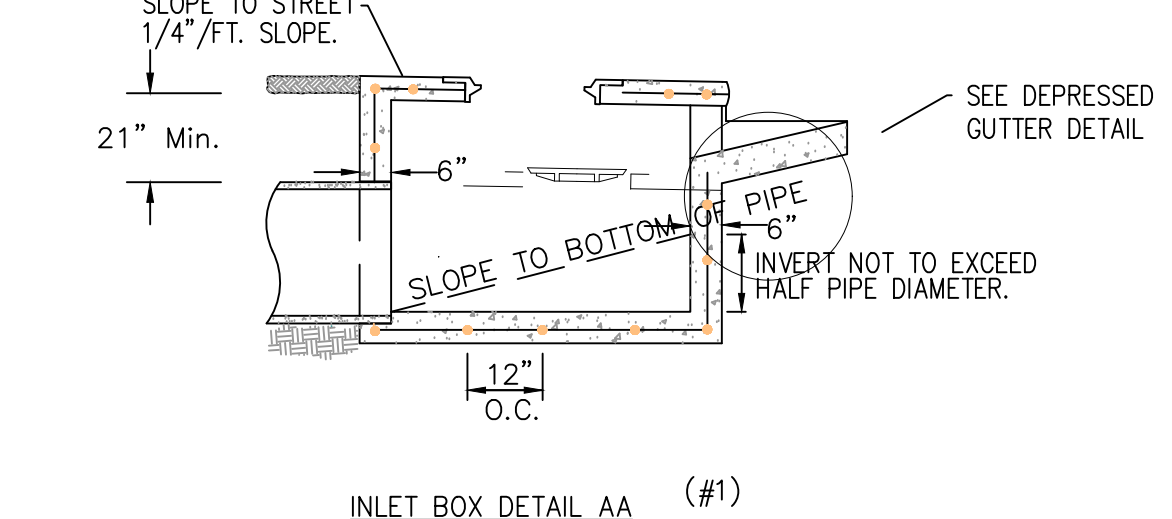
CLEANOUT/COLLAR DETAIL
 NOT TO SCALE



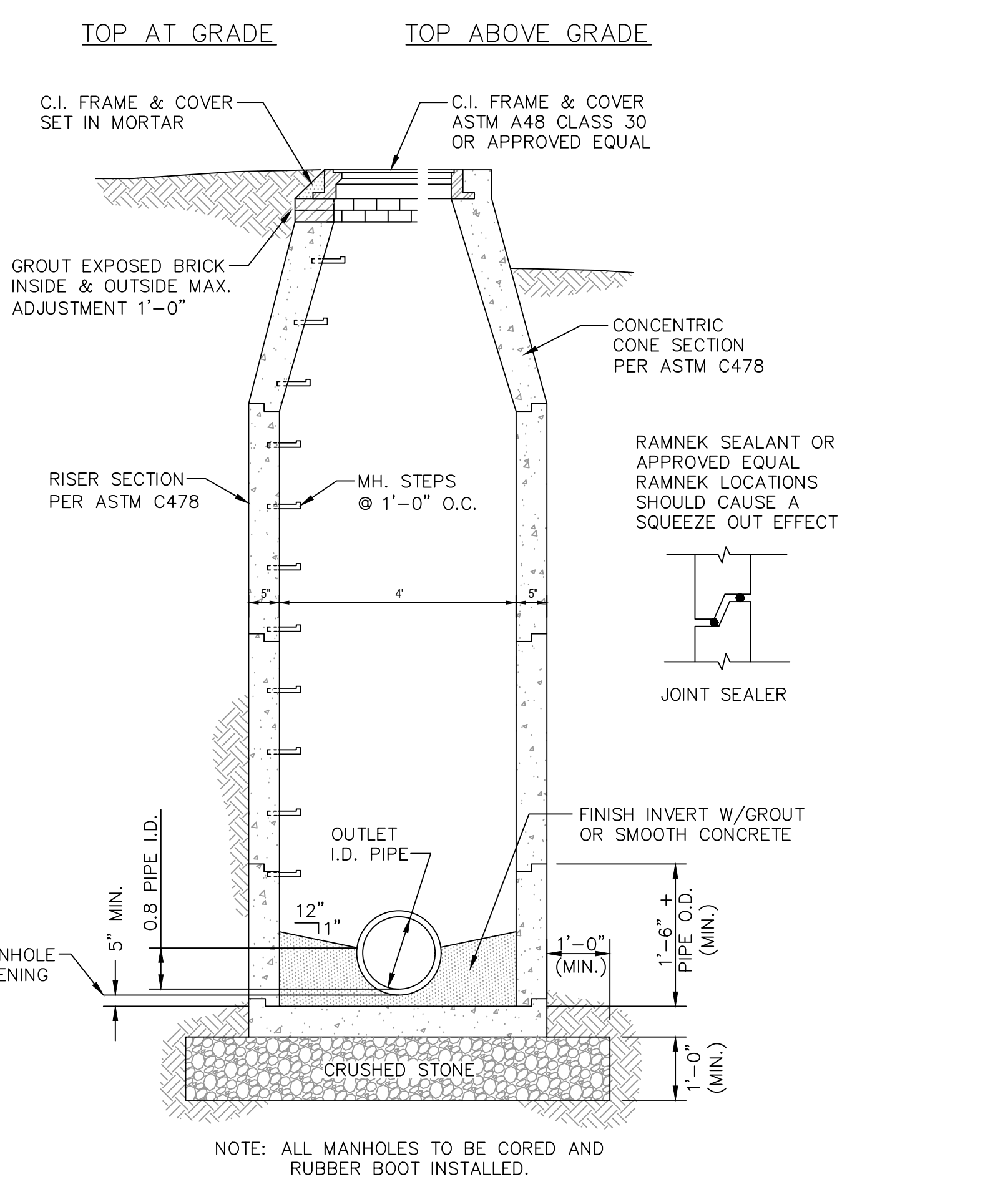
CLEANOUT/COLLAR DETAIL
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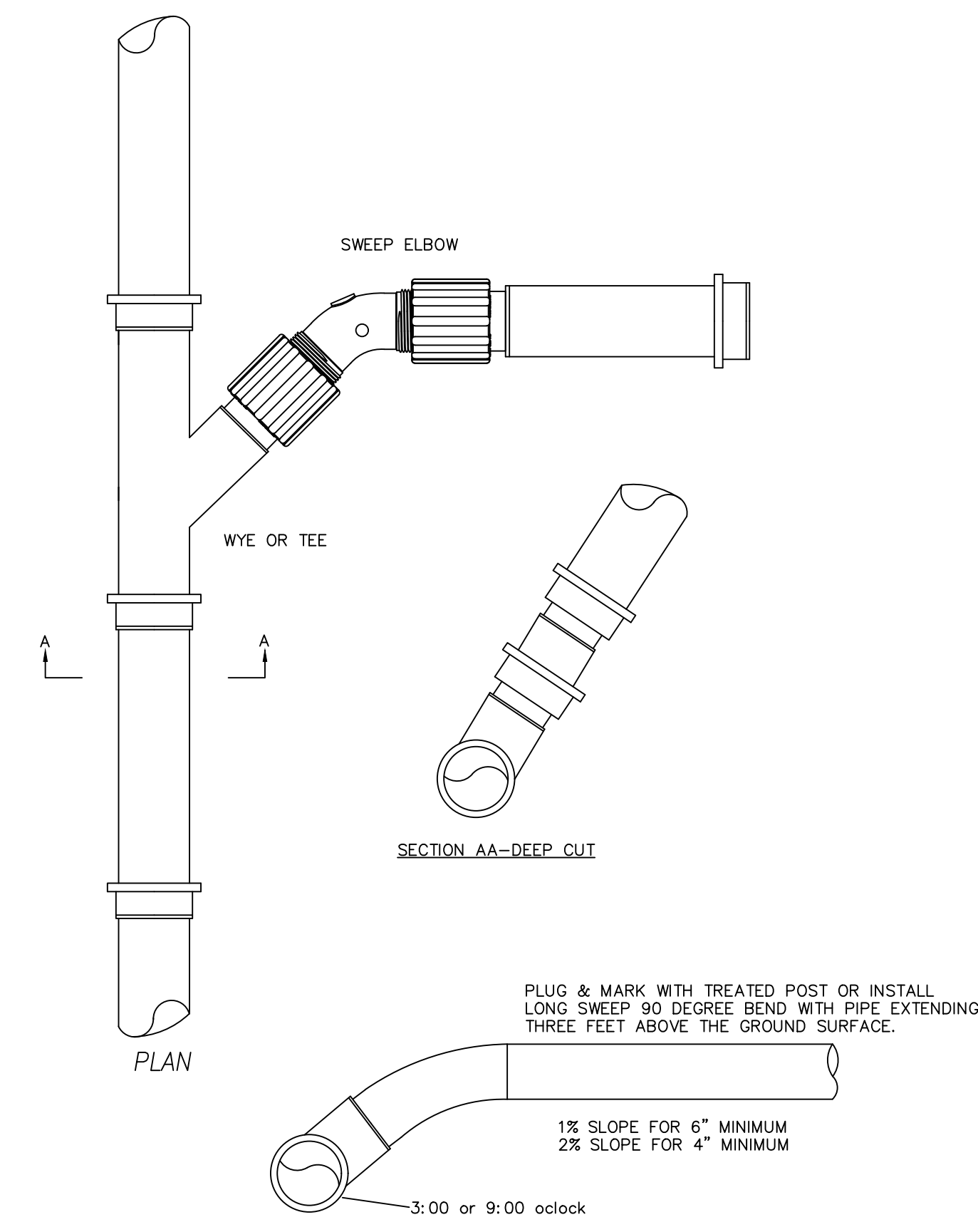
JUNCTION BOX/ AREA INLET DETAILS
 NOT TO SCALE



INLET BOX DETAIL
 NOT TO SCALE



STANDARD MANHOLE
 NOT TO SCALE



SERVICE LINE DETAILS
 NOT TO SCALE

ADDITION TO
LINDEN HIGH SCHOOL
 FOR THE
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 LINDEN, ALABAMA

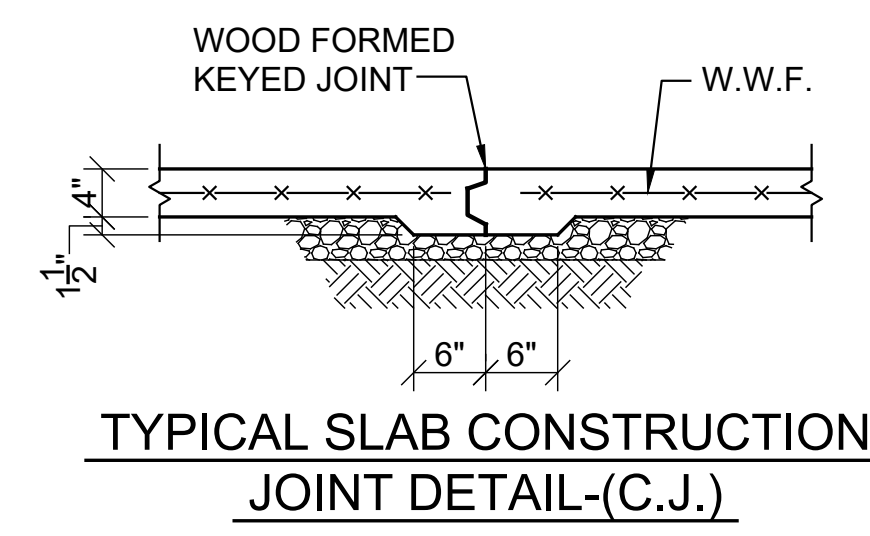
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SHEET TITLE : UTILITY DETAILS
 MCKEE JOB # : 22-315
 DRAWN BY : RPF, MH
 DATE : 08/27/2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :
 SHEET NO. : C7

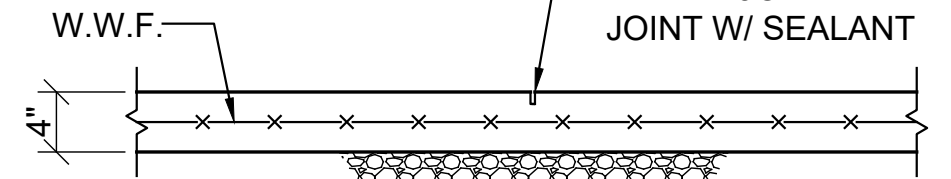
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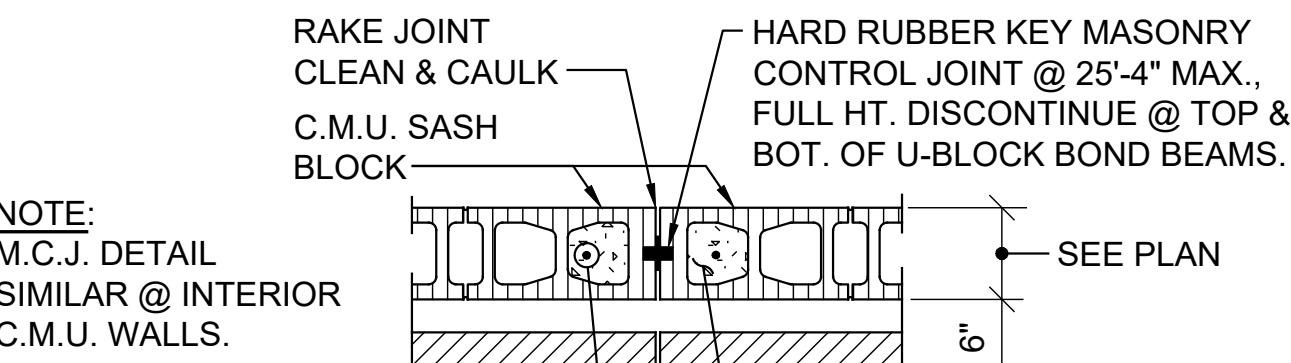


TYPICAL SLAB CONSTRUCTION JOINT DETAIL - (C.J.)

NOTE: IF SAWED JOINTS ARE USED, JOINTS MUST BE SAWED SAME DAY AS SLAB POUR.



ALTERNATE SLAB CONSTRUCTION JOINT DETAIL (SAWED JOINT)

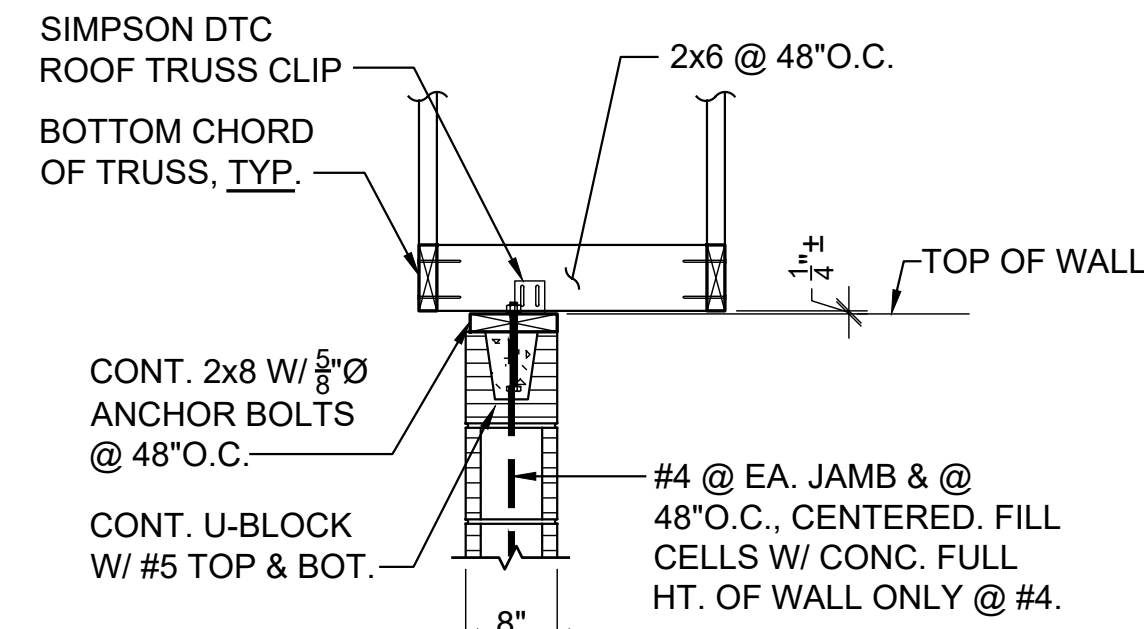


NOTE: M.C.J. DETAIL SIMILAR @ INTERIOR C.M.U. WALLS.

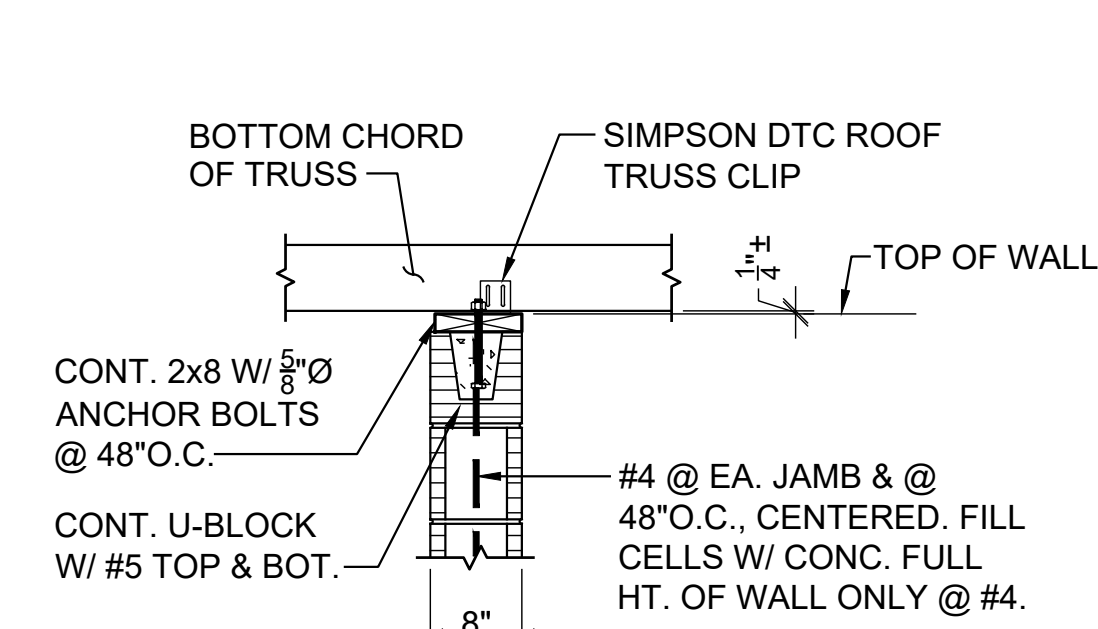
VERT. REINF. SAME SIZE AS WALL REINF. EA. SIDE OF M.C.J. FULL HT. OF WALL, TYPICAL.

BRICK, WHERE OCCURS @ EXTERIOR WALLS

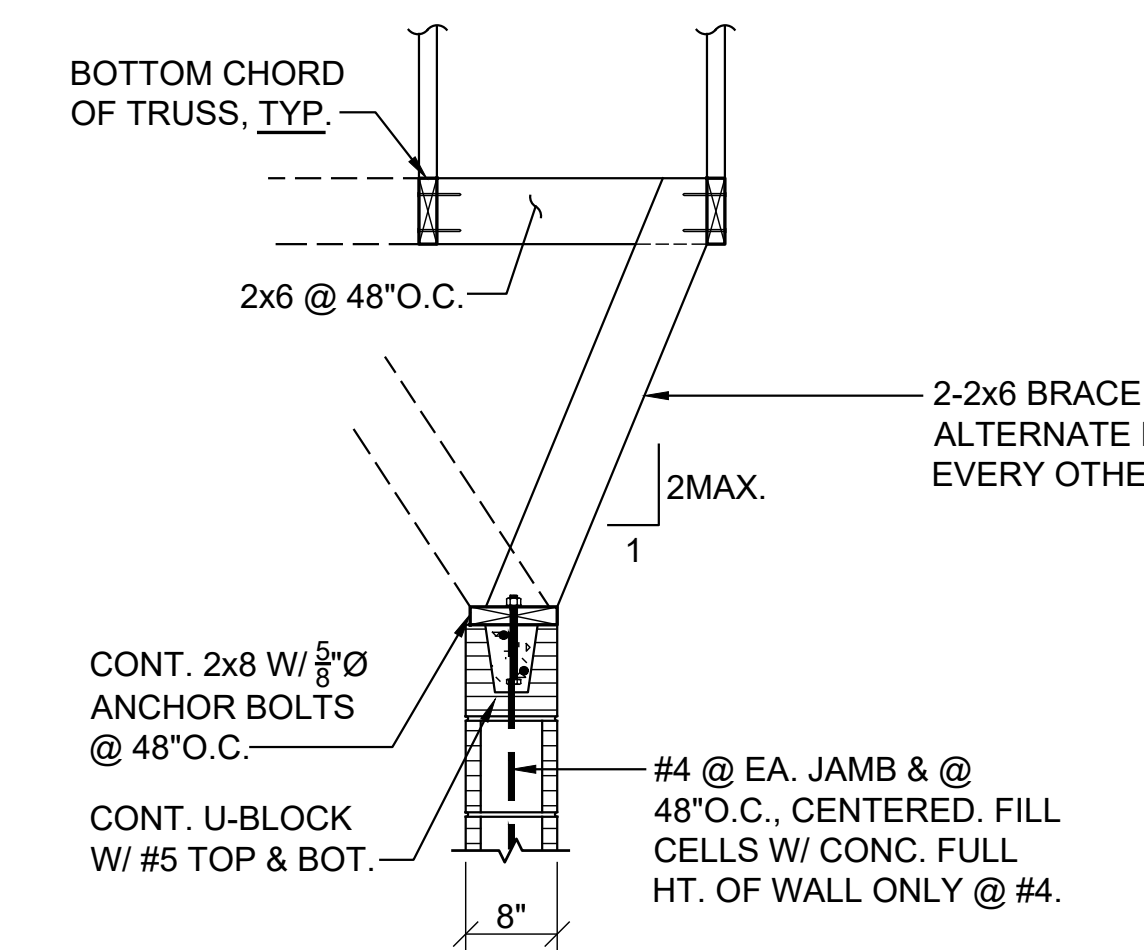
TYPICAL MASONRY CONTROL JOINT (M.C.J.)



WALL PARALLEL TO TRUSSES

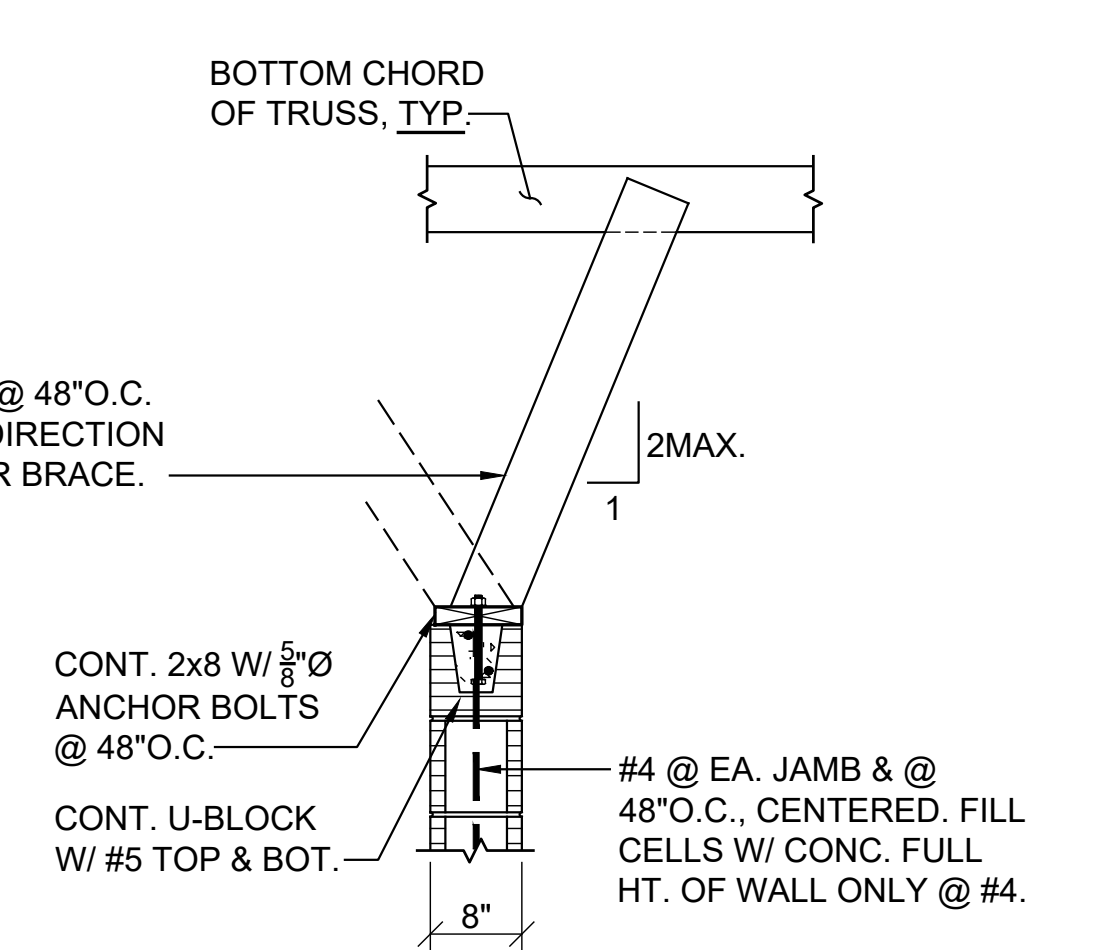


WALL PERPENDICULAR TO TRUSSES

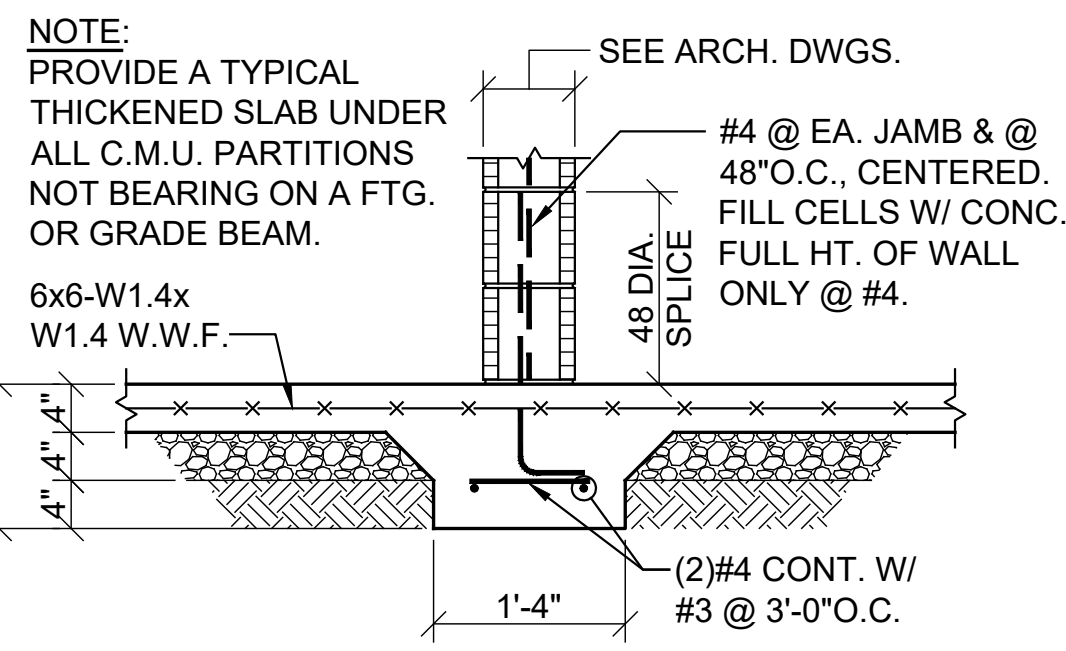


WALL PARALLEL TO TRUSSES

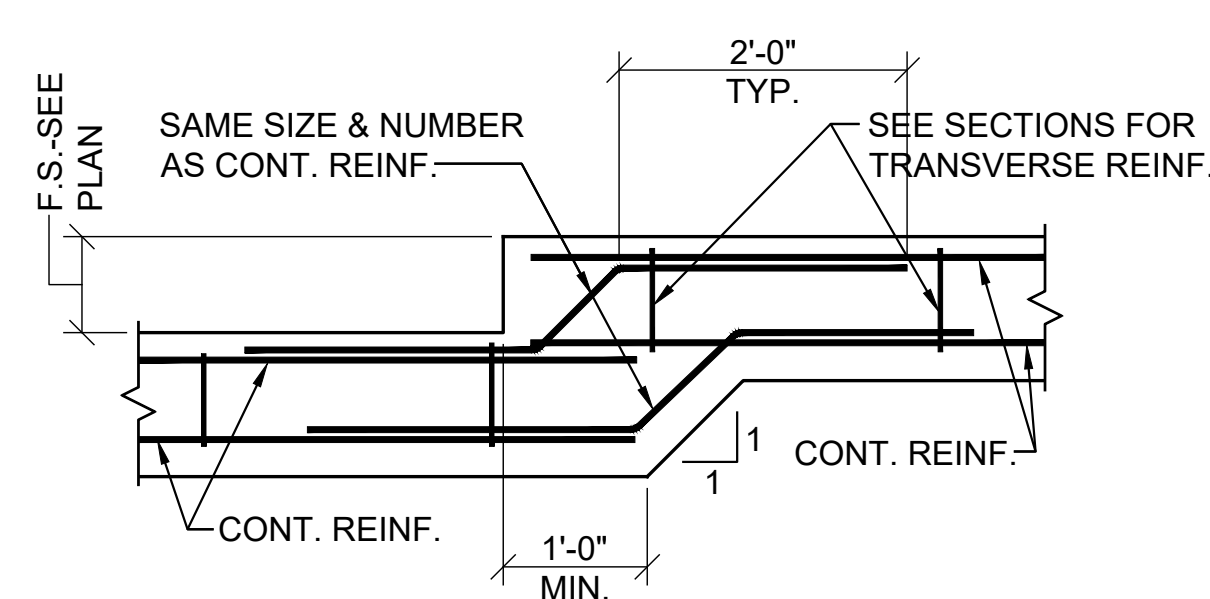
TYPICAL WALL ANCHORAGE DETAIL @ WOOD TRUSSES



WALL PERPENDICULAR TO TRUSSES



GENERAL CONTRACTOR OPTION #4 DOWELS MAY BE DRILLED & EPOXY GROUTED 6" MINIMUM INTO THICKENED SLAB



TYPICAL FOOTING STEP DETAIL - (F.S.)

FOOTING SCHEDULE				
MARK	SIZE	DEPTH	REINFORCING	
(A)	3'-6" x 3'-6"	12"	(3)#4 EA. WAY TOP (5)#4 EA. WAY BOTTOM *	
(B)	4'-6" x 4'-6"	12"	(4)#4 EA. WAY TOP (6)#4 EA. WAY BOTTOM	
(C)	4'-0" x 8'-0"	12"	(8)#4 SHORT WAY TOP (4)#4 LONG WAY TOP (12)#4 SHORT WAY BOT. (6)#4 LONG WAY BOTTOM	

* = PROVIDE 180° HOOK EACH END ALL BARS.

BEARING & BASE PLATE SCHEDULE				
MARK	BASE PLATE SIZE	TYPE	ANCHOR BOLT NO. & SIZE	
BP-1	2 1/2" x 7" x 16"	A	(2) 3/4" Ø x 16" HEADED	
BP-2	3" x 12" x 12"	B	(4) 3/4" Ø x 16" HEADED	

NOTES:
1. ALL ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 55KSI STEEL, HEADED ANCHOR BOLTS.

- FOUNDATION:**
- THE BEARING STRATA OF ALL FOOTINGS AND GRADE BEAMS SHALL BE INSPECTED AND APPROVED BY THE SOILS TESTING LABORATORY PRIOR TO PLACING THE REINFORCED STEEL AND CONCRETE.
 - ALL FOOTINGS SHALL BEAR ON AN UNDISTURBED SOIL STRATA OR COMPACTED FILL CAPABLE OF SUSTAINING THE LOADS.
 - FOOTINGS WERE DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING OF P = 2000 PSF. ALLOWABLE SOIL BEARING SHALL BE VERIFIED BY TESTING AGENCY PRIOR TO FOOTINGS BEING POURED.
 - ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
 - ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND. CONCRETE BLOCK AND BROKEN TILE SHALL NOT BE USED. CONCRETE OR CLAY BRICK MAY BE USED.
 - DOWEL ALL FOOTINGS AND WALLS WHERE THEY ABUT WITH SAME STEEL AS VERTICAL.
 - PROVIDE PREFORMED EXPANSION JOINT WHERE SHOWN.
 - IN FOOTINGS PROVIDE CORNER BARS AT ALL EXTERIOR BUILDING CORNERS.
 - BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.
 - BACK FILL BEHIND ALL RETAINING WALLS AND BASEMENT WALLS SHALL BE AN APPROVED GRANULAR MATERIAL.

- CONCRETE:**
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF F_c = 3000 PSI AND A MAXIMUM WATER-CEMENT RATIO OF 0.53.
 - ALL CONCRETE FOR EXTERIOR APPLICATIONS SHALL CONTAIN ENTRAINED AIR. SEE SPECS FOR ADDITIONAL INFORMATION.
 - REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
 - WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 OR ASTM A1064.
 - UNLESS NOTED OTHERWISE PROTECTIVE COVERING OF REINFORCEMENT SHALL BE AS FOLLOWS: (CONCRETE COLUMNS) 1 1/2" CLEAR TO REINFORCING; (FOOTINGS AND GRADE BEAMS) 3" CLEAR BOTTOM AND SIDES, 1 1/2" CLEAR TOP. CONCRETE SLABS 3/4" CLEAR. WALLS 1 1/2" CLEAR SIDES. BEAMS 1 1/2" CLEAR TO STIRRUPS. FORMED CONCRETE COLUMNS SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF F_c = 3000 PSI. ON 16" AND DEEPER U-BLOCKS, FILL CELLS FULL HEIGHT OR LINTEL AT SAME TIME.
 - ANCHOR ALL MASONRY VERTICAL COLUMNS WITH STRAP ANCHORS AT 16" O.C. VERTICALLY UNLESS SHOWN OTHERWISE.
 - UNLESS INDICATED OTHERWISE PROVIDE KEYED RUBBER MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 25'-4". JOINT SHALL BE DISCONTINUOUS AT BOND BEAM. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
 - PROVIDE REINFORCING BAR SUPPORTS TO CENTER VERTICAL REINFORCING IN MASONRY WALLS.
 - PROVIDE 48 DIAMETER LAP SPLICE IN VERTICAL MASONRY REINFORCING.
 - PROVIDE CORNER BARS IN U-BLOCK BOND BEAMS AT CORNERS, TYPICAL.
 - ALL CMU SHALL BE PLACED IN A RUNNING BOND PATTERN.
 - VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGH BOND BEAMS AND LINTELS (CUT OUT OR NOTCH BOTTOM OF U-BLOCKS AS REQUIRED - DO NOT SUBSTITUTE BLOCK WITH KNOCK-OUT WEBS WHERE STANDARD U-BLOCK IS INDICATED). FOR BOND BEAMS AT TOP OF WALL, EXTEND VERTICAL REINFORCING TO 1" CLEAR TOP OF BOND BEAM.

- MASONRY:**
- PROVIDE MASONRY HORIZONTAL JOINT REINFORCEMENT 16" O.C. VERTICAL IN ALL CONCRETE BLOCK WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.
 - WHERE CONCRETE OR STEEL BEAMS BEAR ON CONCRETE BLOCK WALLS, BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1-4" WIDE TO FOUNDATION AND REINFORCED WITH A #5 EACH CELL UNLESS NOTED OR DETAILED OTHERWISE.
 - CONCRETE OR GROUT FOR BLOCK FILL SHALL HAVE 3/8 INCH MAXIMUM SIZE COARSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. HEIGHT OF LIFT WHEN FILLING CELLS SHALL NOT EXCEED 4'-6".
 - CONCRETE OR GROUT FOR C.M.U. SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF F_c = 3000 PSI. ON 16" AND DEEPER U-BLOCKS, FILL CELLS FULL HEIGHT OR LINTEL AT SAME TIME.
 - ANCHOR ALL MASONRY VERTICAL COLUMNS WITH STRAP ANCHORS AT 16" O.C. VERTICALLY UNLESS SHOWN OTHERWISE.
 - UNLESS INDICATED OTHERWISE PROVIDE KEYED RUBBER MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 25'-4". JOINT SHALL BE DISCONTINUOUS AT BOND BEAM. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
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 - PROVIDE CORNER BARS IN U-BLOCK BOND BEAMS AT CORNERS, TYPICAL.
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 - VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGH BOND BEAMS AND LINTELS (CUT OUT OR NOTCH BOTTOM OF U-BLOCKS AS REQUIRED - DO NOT SUBSTITUTE BLOCK WITH KNOCK-OUT WEBS WHERE STANDARD U-BLOCK IS INDICATED). FOR BOND BEAMS AT TOP OF WALL, EXTEND VERTICAL REINFORCING TO 1" CLEAR TOP OF BOND BEAM.

- STRUCTURAL STEEL:**
- ALL STRUCTURAL STEEL W AND WT SHAPES SHALL CONFORM TO ASTM A992 (GRADE 50). OTHER SHAPES SHALL CONFORM TO ASTM A36, LATEST EDITION EXCEPT STEEL JOISTS AND TUBE SECTIONS.
 - STRUCTURAL STEEL TUBE SECTIONS SHALL CONFORM TO ASTM A500, GRADE B, F_y = 46.0 KSI.
 - HEADED STUDS SHALL BE TYPE B SHEAR CONNECTORS (F_u = 65 KSI).
 - STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.
 - THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWINGS DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. USE 3/4 INCH DIAMETER MINIMUM.
 - CONNECTIONS NOT SHOWN ON DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR. WHERE POSSIBLE USE DOUBLE ANGLE CONNECTIONS. USE MAXIMUM NUMBER OF BOLTS FOR DEPTH OF BEAM WITH SINGLE ROW OF BOLTS. WHERE DOUBLE ANGLE CONNECTIONS ARE NOT POSSIBLE, FABRICATOR SHALL DESIGN CONNECTION FOR CAPACITY EQUIVALENT TO DBL-ANGLE CONNECTION WITH MAX NO. BOLTS UNLESS DETAILED OTHERWISE.
 - FOR DBL-ANGLE CONNECTIONS, MIN ANGLE THICKNESS SHALL BE 5/16" FOR 3/4 INCH DIAMETER BOLTS AND 3/8" FOR 7/8 INCH DIAMETER BOLTS AND LARGER.
 - UNLESS SHOWN OTHERWISE PROVIDE 1/2 X 7/12 X 7/12 BEARING PLATES ON 1 INCH GROUT WITH 2-3/4" DIAMETER ANCHOR BOLTS UNDER ALL STEEL BEAMS THAT BEAR ON MASONRY WALLS.
 - OPEN WEB STEEL JOISTS SHALL CONFORM TO THE SPECIFICATIONS OF THE AISC AND SJI AND TO THE LATEST OSHA STEEL ERECTION STANDARD.
 - UNLESS SHOWN OTHERWISE PROVIDE BRIDGING, BEARING SEATS, AND STABILIZER PLATES IN ACCORDANCE WITH ABOVE SPECIFICATIONS AND STANDARD.
 - ALL BRIDGING SHALL BE SECURELY ANCHORED AT END OF EACH RUN. WELD TO STEEL BEAM OR ANCHOR TO MASONRY WALL WITH 3/8" ANCHOR BOLTS.
 - WHERE JOISTS CAN NOT BEAR 2 1/2 INCHES ON STEEL BEAMS, STAGGER LOCATION OF JOISTS TO PROVIDE 2 1/2 INCHES MINIMUM BEARING.
 - SHelter roof joists and bridging shall be designed for a net uplift of 115 PSF (ASD). SHelter roof joists shall have a minimum top chord thickness of 1-1/4".

- WOOD FRAMING:**
- ALL WOOD FRAMING MEMBERS SHALL BE STRESS RATED AND GRADE MARKED.
 - FRAMING MEMBERS SHALL BE NO. 2, KILN DRIED, SOUTHERN YELLOW PINE OR APPROVED EQUAL.
 - PROVIDE PREFABRICATED WOOD TRUSSES WHERE INDICATED ON PLAN.
 - ALL TRUSSES SHALL BE DESIGNED AND MANUFACTURED TO MEET THE FOLLOWING WORKING LOADS AND CODES:
MINIMUM LOADS:
ROOF LIVE LOAD 20 PSF
ROOF DEAD LOAD 15 PSF
CEILING LOAD 0 PSF
CONNECTORS SHALL MEET THE SPECIFICATIONS OF THE TRUSS PLATE INSTITUTE AND SHALL BE SANFORD, GANG-NAIL, TEMPLIN OR EQUAL.
MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS FOR EACH TYPE TRUSS. DESIGNS SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF ALABAMA. SIZES OF MEMBERS MAY BE CHANGED AS ALLOWED OR REQUIRED BY THE GRADE OF LUMBER USED EXCEPT THAT ALL TOP CHORDS AND BOTTOM CHORDS SHALL BE 2X6 MINIMUM.
PROVIDE CAMBER IN ALL TRUSSES.
PROVIDE VERTICAL WEB MEMBERS TO ACCOMMODATE TRUSS VERTICAL X-BRACING (SEE PLAN FOR LOCATIONS).
IN ADDITION TO THE "X" BRACING SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL PROVIDE ALL BRACING REQUIRED BY THE TRUSS MANUFACTURER. THE DESIGN OF BRACING FOR INDIVIDUAL TRUSS MEMBERS INCLUDING CONTINUOUS BRACING SHALL BE THE RESPONSIBILITY OF THE TRUSS DESIGN ENGINEER AND HE SHALL SHOW THE SIZES OF THIS BRACING ON THE SHOP DRAWINGS INCLUDING ALL END ANCHORAGE DETAILS FOR CONTINUOUS BRACING.
ANCHOR ALL TRUSSES, JOISTS, AND RAFTERS TO SUPPORTS WITH GALVANIZED FRAMING ANCHORS.
HURRICANE ANCHORS SHOWN ON DRAWINGS ARE MINIMUM REQUIRED. PROVIDE ADDITIONAL ANCHORS AND/OR DIFFERENT TYPES OF ANCHORS AS REQUIRED TO RESIST NET UPLIFT IN ACCORDANCE WITH TRUSS MANUFACTURER'S RECOMMENDATIONS. TRUSS MANUFACTURER SHALL INDICATE REQUIRED ANCHORAGE ON SHOP DRAWINGS.
ALL WALLS, ANCHOR BOLTS, AND OTHER STEEL ANCHORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL. PROVIDE 15# FELT SEPARATOR (OR EQUIVALENT) AS REQUIRED BETWEEN ALL PRESSURE TREATED WOOD AND OTHER METAL FRAMING.
UNLESS NOTED OTHERWISE ATTACH PLYWOOD ROOF DECK WITH 10d NAILS @ 6" O.C. AT SUPPORTED EDGES AND @ 12" O.C. AT INTERMEDIATE SUPPORTS.

- GENERAL NOTES:**
- ALL PARTS SHALL BE FURNISHED AND ERECTED ACCORDING TO THE APPLICABLE CODES AND SPECIFICATIONS OF THE FOLLOWING:
AMERICAN CONCRETE INSTITUTE (ACI)
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
AMERICAN WELDING SOCIETY (AWS)
OSHA STEEL ERECTION STANDARD (OSHA)
NATIONAL LUMBER MANUFACTURER'S ASSOCIATION (NLMA)
AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)
INTERNATIONAL BUILDING CODE (IBC 2021) (ICC)
ICC 500-2020 (STORM SHELTER DESIGN) (ICC)

- DESIGN LIVE LOADS:**
- ROOF 20 PSF
RISK CATEGORY (PER IBC 2021/ASCE 7-16) II
WIND INTERNATIONAL BUILDING CODE (PER ASCE 7-16)
ULTIMATE DESIGN WIND SPEED (V_{ult}) 125 MPH
NOMINAL DESIGN WIND SPEED (V_{asd}) 97 MPH
WIND EXPOSURE C
INTERNAL PRESSURE COEFFICIENTS +/- 0.18
SEISMIC INTERNATIONAL BUILDING CODE (PER ASCE 7-16)
SEISMIC IMPORTANCE FACTOR I_e = 1.25
MAPPED SPECTRAL ACCELERATION (SHORT-TERM) S_s = 0.179g
MAPPED SPECTRAL ACCELERATION (1-SECOND) S₁ = 0.081g
SITE CLASS D
SHORT PERIOD SPECTRAL RESPONSE ACCEL S_{ds} = 0.190g
1-SECOND SPECTRAL RESPONSE ACCEL S_{d1} = 0.130g
SEISMIC DESIGN CATEGORY B
SEISMIC FORCE-RESISTING SYSTEM
INTERMEDIATE IRREGULAR CMU SHEAR WALLS
DESIGN BASE SHEAR (ULTIMATE) 99k
SEISMIC RESPONSE COEFFICIENT C_s = 0.068
RESPONSE MODIFICATION FACTOR R = 5
ANALYSIS PROCEDURE ASCE 7 (SECT 12.8)
- SNOW INTERNATIONAL BUILDING CODE
GROUND SNOW LOAD P_g = 5 PSF

COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES:
NOTE: MULTIPLY ALL VALUES SHOWN BELOW BY 0.6 TO GET ALLOWABLE DESIGN PRESSURES. SEE FIGURE 30.4-1 OF ASCE 7-16 FOR INDICATED ZONES.

- TYPICAL NON-SHELTER AREAS:**
- ROOF: TRIBUTARY AREA A = 10 SF
ZONE 1 - 48.7 PSF/27.7 PSF
ZONE 2a - 47.5 PSF/27.1 PSF
ZONE 2b - 100 PSF/27.7 PSF
ZONE 3 - 47.5 PSF/27.7 PSF
ZONE 3a - 100 PSF/27.5 PSF
ZONE 3b - 100 PSF/27.5 PSF
ROOF: TRIBUTARY AREA A = 100 SF
ZONE 1 - 37.2 PSF/15.1 PSF
ZONE 2a - 36.5 PSF/15.1 PSF
ZONE 2b - 55.1 PSF/15.1 PSF
ZONE 3 - 38.5 PSF/15.1 PSF
ZONE 3a - 62.4 PSF/15.1 PSF
WALL: TRIBUTARY AREA A = 10 SF
ZONE 4 - 40.3 PSF/12.2 PSF
ZONE 5 - 49.8 PSF/37.2 PSF
WALL: TRIBUTARY AREA A = 50 SF
ZONE 4 - 36.5 PSF/12.2 PSF
ZONE 5 - 42.0 PSF/33.3 PSF
WALL: TRIBUTARY AREA A = 100 SF
ZONE 4 - 34.7 PSF/31.8 PSF
ZONE 5 - 38.6 PSF/31.8 PSF
CORNER ZONE = 7.2 FT

- TORNADO SHELTER:**
- ROOF: TRIBUTARY AREA A = 10 SF
ZONE 1 - 306 PSF/116 PSF
ZONE 2 - 387 PSF/116 PSF
ZONE 3 - 509 PSF/116 PSF
ROOF: TRIBUTARY AREA A = 100 SF
ZONE 1 - 250 PSF/102 PSF
ZONE 2 - 197 PSF/102 PSF
ZONE 3 - 365 PSF/102 PSF
WALL: TRIBUTARY AREA A = 10 SF
ZONE 4 - 209 PSF/197 PSF
ZONE 5 - 246 PSF/197 PSF
WALL: TRIBUTARY AREA A = 50 SF
ZONE 4 - 194 PSF/182 PSF
ZONE 5 - 216 PSF/182 PSF
WALL: TRIBUTARY AREA A = 100 SF
ZONE 4 - 187 PSF/175 PSF
ZONE 5 - 202 PSF/175 PSF
CORNER ZONE = 4.1 FT

SPECIAL INSPECTIONS:
ALL SPECIAL INSPECTIONS REQUIRED BY CHAPTER 17 OF IBC SHALL BE PERFORMED BY A DESIGNATED TESTING AGENCY OR AGENCIES RESPONSIBLE FOR SPECIAL INSPECTIONS.

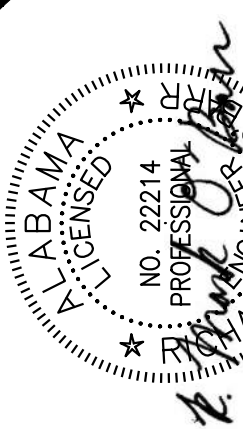
- TORNADO SHELTER DESIGN LIVE LOADS (PER ICC 500-2020):**
- ROOF LIVE LOAD 100 PSF
ULTIMATE DESIGN WIND SPEED 250 MPH
WIND EXPOSURE C
WIND DIRECTIONALITY FACTOR 1.0
TOPOGRAPHIC FACTOR 1.0
INTERNAL PRESSURE COEFFICIENTS +/- 0.55
MISSILE IMPACT CRITERIA:
15# 2x4 @ 100 MPH FOR VERTICAL SURFACES
15# 2x4 @ 87 MPH FOR HORIZONTAL SURFACES
- THE WIND DESIGN OF THE SHELTER CONFORMS TO THE PROVISIONS OF THE ICC 500 STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS (ICC 500-2020).

MISSILE IMPACT TESTED SYSTEMS USED (OR EXCEEDED):
VERTICAL SURFACES (WALLS):
FULLY GROUTED 8" CMU W/ #5 REBAR SPACED @ 48" O.C. AND AT EACH OPENING AND CORNER (FEMA P-361 SECTION B8.2.3)
HORIZONTAL SURFACES (ROOFS):
4" THICK CONCRETE SLAB W/ #4 @ 12" O.C. REBAR EA WAY (FEMA P-361 SECTION B8.2.4)

- QUALITY ASSURANCE FOR TORNADO SHELTER:**
- THE FOLLOWING STRUCTURAL COMPONENTS ARE DESIGNATED AS WIND SYSTEMS AND/OR PART OF THE MAIN WIND-FORCE-RESISTING SYSTEM OF THE TORNADO SHELTER AND ARE SUBJECT TO THE REQUIREMENTS OF SECTION 1705.12 OF IBC 2021 AND PROJECT SPECIFICATIONS:
LOAD BEARING CMU (SHEAR) WALLS
JOIST CONNECTIONS TO SHEAR WALLS
SHEAR WALL ANCHORAGE TO FOUNDATION
THESE SPECIFIC COMPONENTS ARE IN ADDITION TO ALL GENERAL COMPONENTS LISTED IN SECTION 1705.12 OF IBC 2021 AND SECTION 107.3 OF ICC 500-20 AND ARE SUBJECT TO ALL SPECIAL INSPECTIONS AND TESTING AS REQUIRED BY CHAPTER 17 OF IBC 2021, PROJECT SPECIFICATIONS, AND SCHEDULE OF SPECIAL INSPECTIONS. SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED AS PER THE STATEMENT OF SPECIAL INSPECTIONS.
 - IN ADDITION TO PROJECT SPECIFICATIONS, SPECIAL INSPECTOR SHALL REFER TO IBC 2021 SECTION 1705 (INCLUDING TABLES 1705.2.3 THROUGH 1705.8) FOR SPECIFIC REQUIREMENTS FOR INSPECTION AND VERIFICATION OF MISCELLANEOUS STEEL, CONCRETE, SOLLS, AND FOUNDATIONS. SPECIAL INSPECTIONS FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 360. MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN ACCORDANCE WITH ACI 530 AND ACI 530.1 QUALITY ASSURANCE PROGRAM REQUIREMENTS.
 - FOR PURPOSES OF SPECIAL INSPECTIONS, SHELTER SHALL BE CONSIDERED AS RISK CATEGORY IV.
 - IN ADDITION TO SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS WILL BE REQUIRED AT SIGNIFICANT STAGES OF CONSTRUCTION (TO BE COORDINATED WITH STRUCTURAL ENGINEER). CONTRACTOR SHALL GIVE AT LEAST 5 DAYS NOTICE PRIOR TO ENGINEER'S OBSERVATION OF THESE STAGES.

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08-217-24

SHEET TITLE : GENERAL NOTES SCHEDULES TYPICAL DETAILS

MCKEE JOB # : 22-315

DRAWN BY : R. Casey

DATE : 8/27/2024

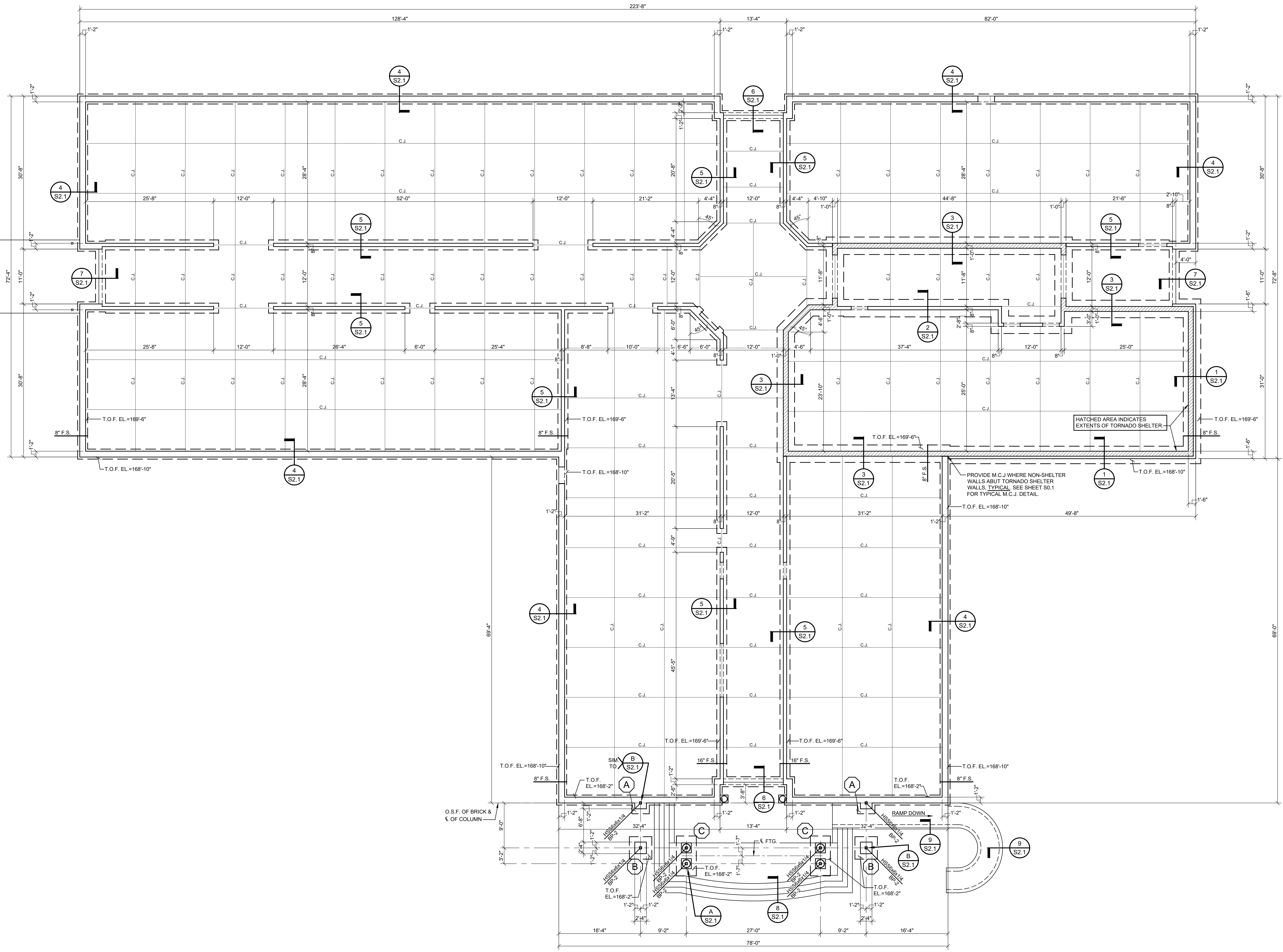
REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : **S0.1**

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- Friday, September 13, 2024 9:05:00 AM



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

FLOOR CONSTRUCTION
4" THICK CONCRETE SLAB W/
6x6-W1.4xW1.4 W.W.F. OVER VAPOR
BARRIER OVER 4" POROUS FILL.
FINISH FLOOR EL. = 171'-6" (+0'-0")

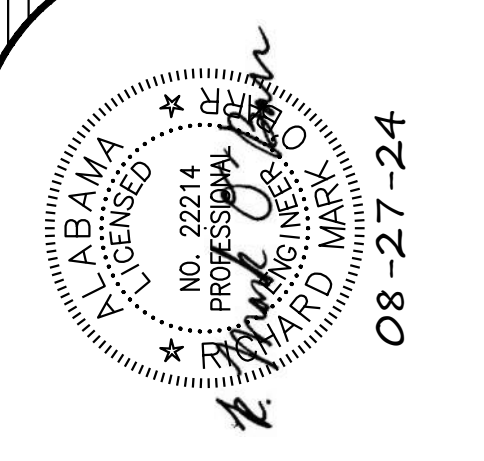
NOTE:
UNLESS NOTED OTHERWISE, TOP
OF FOOTING EL. = -2'-0" (+169'-6")

NOTE:
PROVIDE A TYPICAL THICKENED SLAB
UNDER ALL C.M.U. PARTITIONS NOT
BEARING ON A FOOTING. SEE SHEET
S0.1 FOR TYPICAL DETAIL.

SHEET TITLE : FOUNDATION PLAN
MCKEE JOB # : 22-315
DRAWN BY : R. Casey
DATE : 8/27/2024
REVISED DATE :
REVISED DATE :
REVISED DATE :

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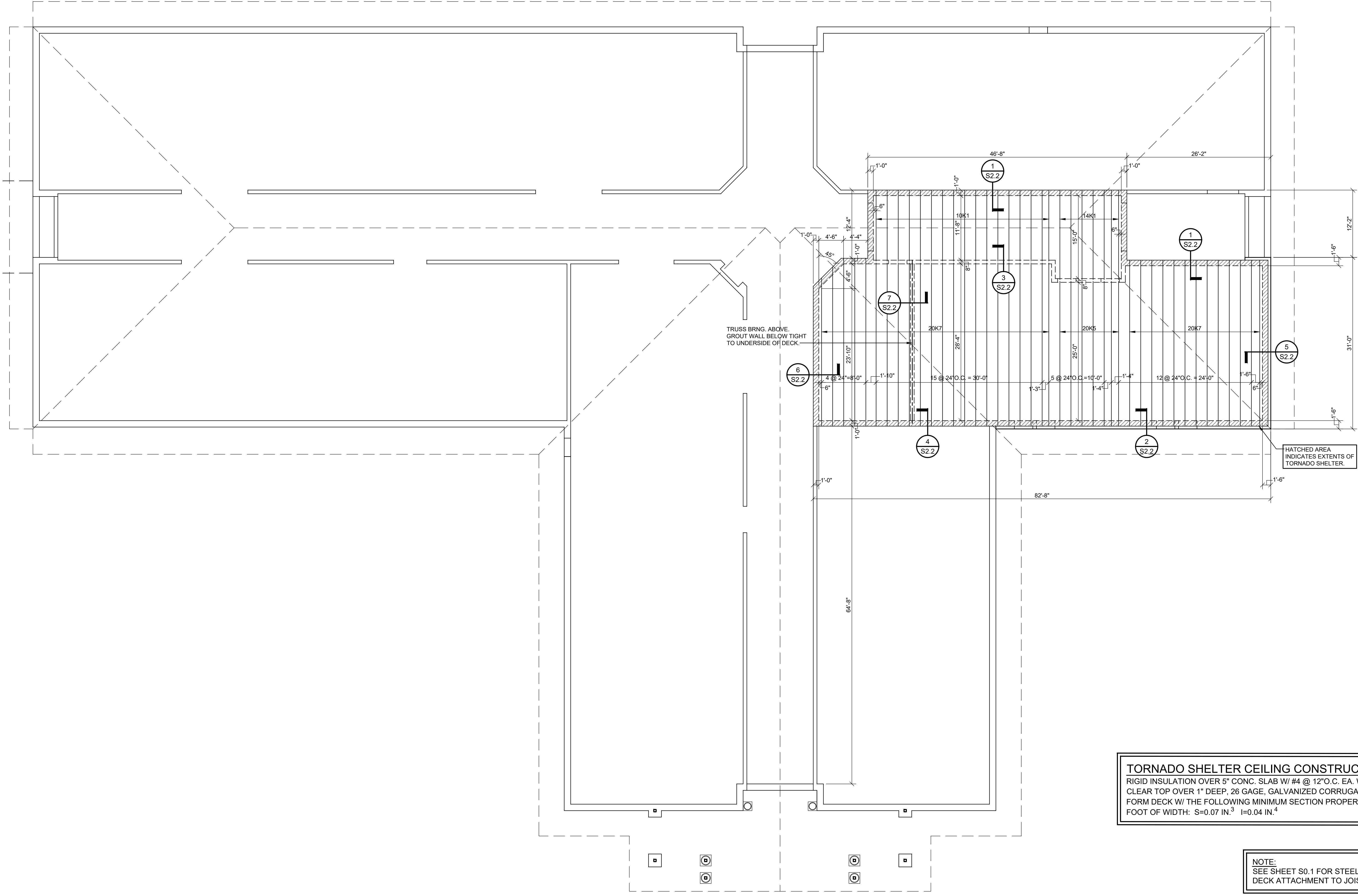
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08-217-24

SHEET NO. : **S1.1**

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- Friday, September 13, 2024 9:05:00 AM



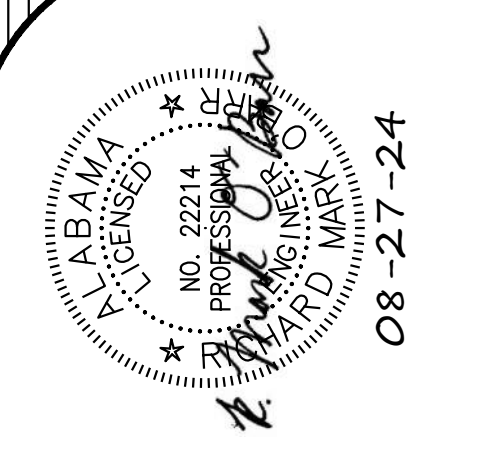
TORNADO SHELTER CEILING CONSTRUCTION
RIGID INSULATION OVER 5" CONC. SLAB W/ #4 @ 12" O.C. EA. WAY, 1" CLEAR TOP OVER 1" DEEP, 26 GAGE, GALVANIZED CORRUGATED STEEL FORM DECK W/ THE FOLLOWING MINIMUM SECTION PROPERTIES PER FOOT OF WIDTH: S=0.07 IN.³ I=0.04 IN.⁴

NOTE:
SEE SHEET S0.1 FOR STEEL DECK ATTACHMENT TO JOISTS.

NOTE:
PROVIDE 1/2"x4" HEADED STUDS @ 24" O.C. TO TOP CHORD MEMBERS OF ALL JOISTS- ALTERNATE STUD LOCATIONS ON TOP CHORD MEMBERS.

 **TORNADO SHELTER CEILING FRAMING PLAN**
SCALE: 1/8" = 1'-0"

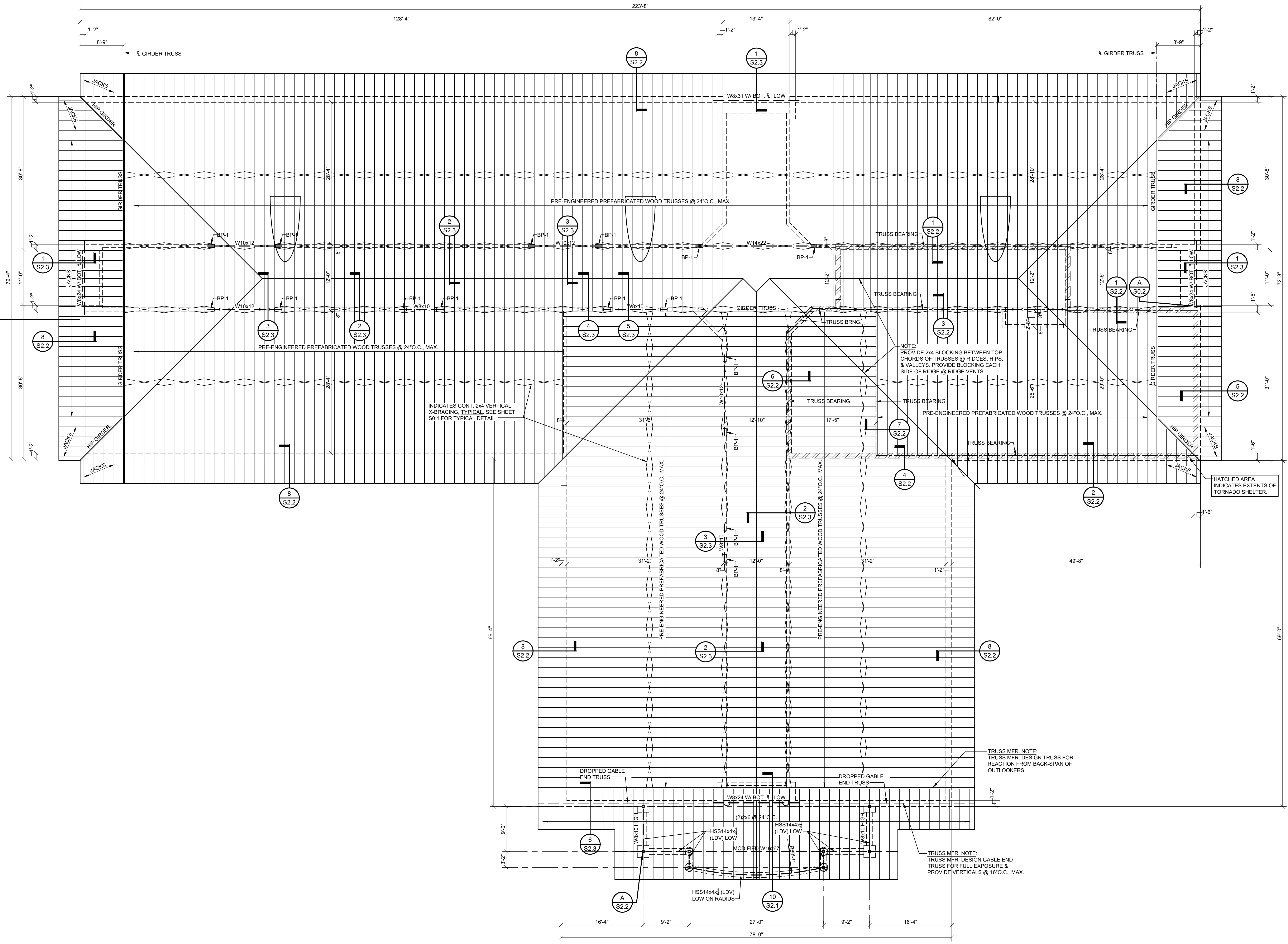
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SHEET TITLE : TORNADO SHELTER FRAMING PLAN
MCKEE JOB # : 22-315
DRAWN BY : R. Casey
DATE : 8/27/2024
REVISED DATE :
REVISED DATE :
REVISED DATE :

SHEET NO. : **S1.2**

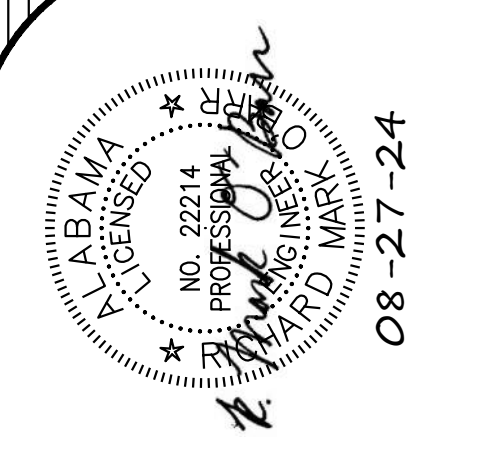


ROOF FRAMING PLAN
 SCALE: 1/8" = 1'-0"

ROOF CONSTRUCTION
 5/8" THICK APA RATED PLYWOOD
 DECK, EXPOSURE 1, W/ PANEL
 IDENTIFICATION INDEX OF 40/20
 OVER PRE-ENGINEERED
 PREFABRICATED WOOD TRUSSES
 & JACKS @ 24" O.C., MAXIMUM.
 NOTE:
 PROVIDE PLYCLIPS @ MID SPAN
 BETWEEN TRUSSES & RAFTERS @
 ALL JOINTS IN ADJACENT ROOF
 DECK SHEETS.

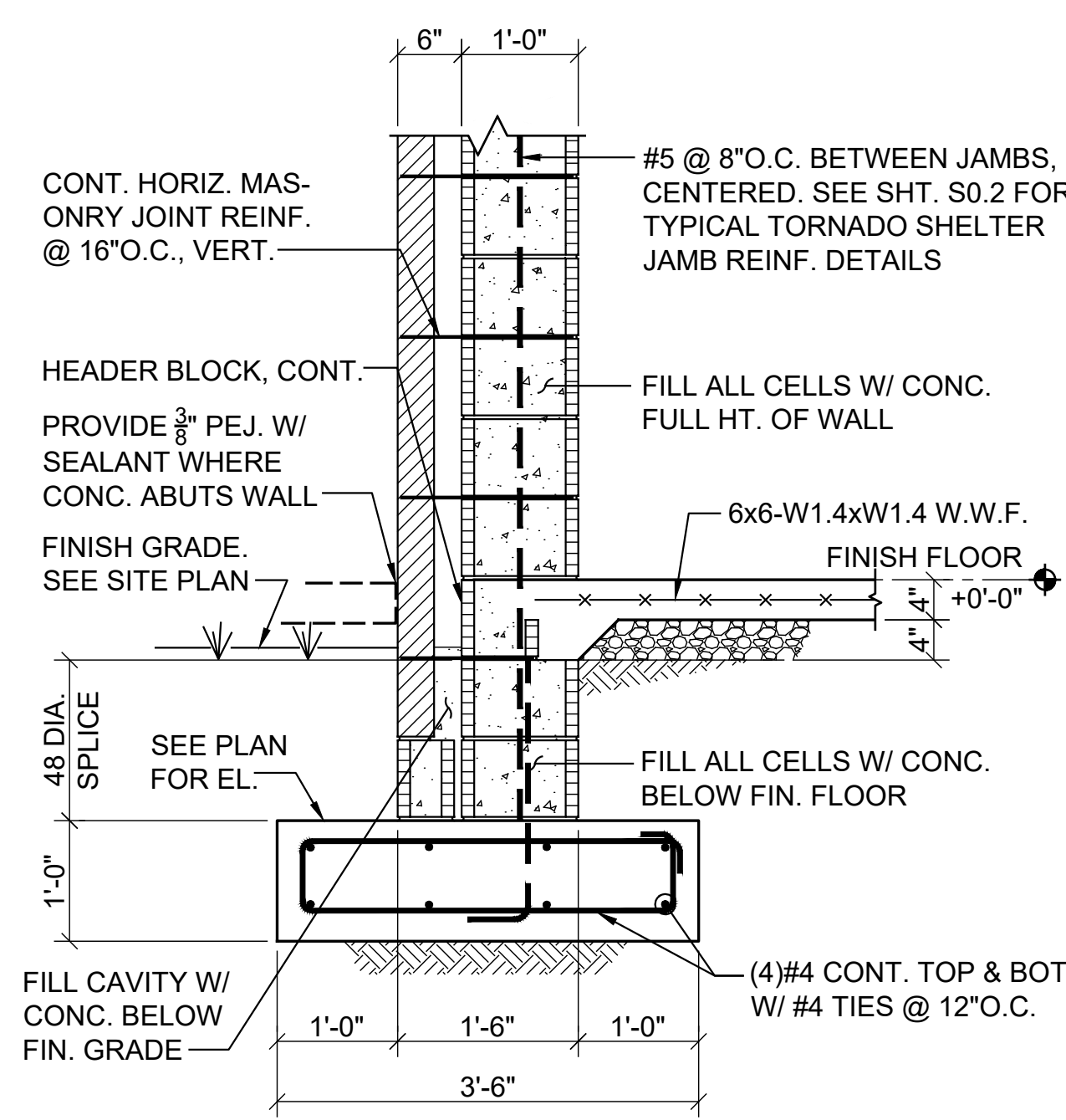
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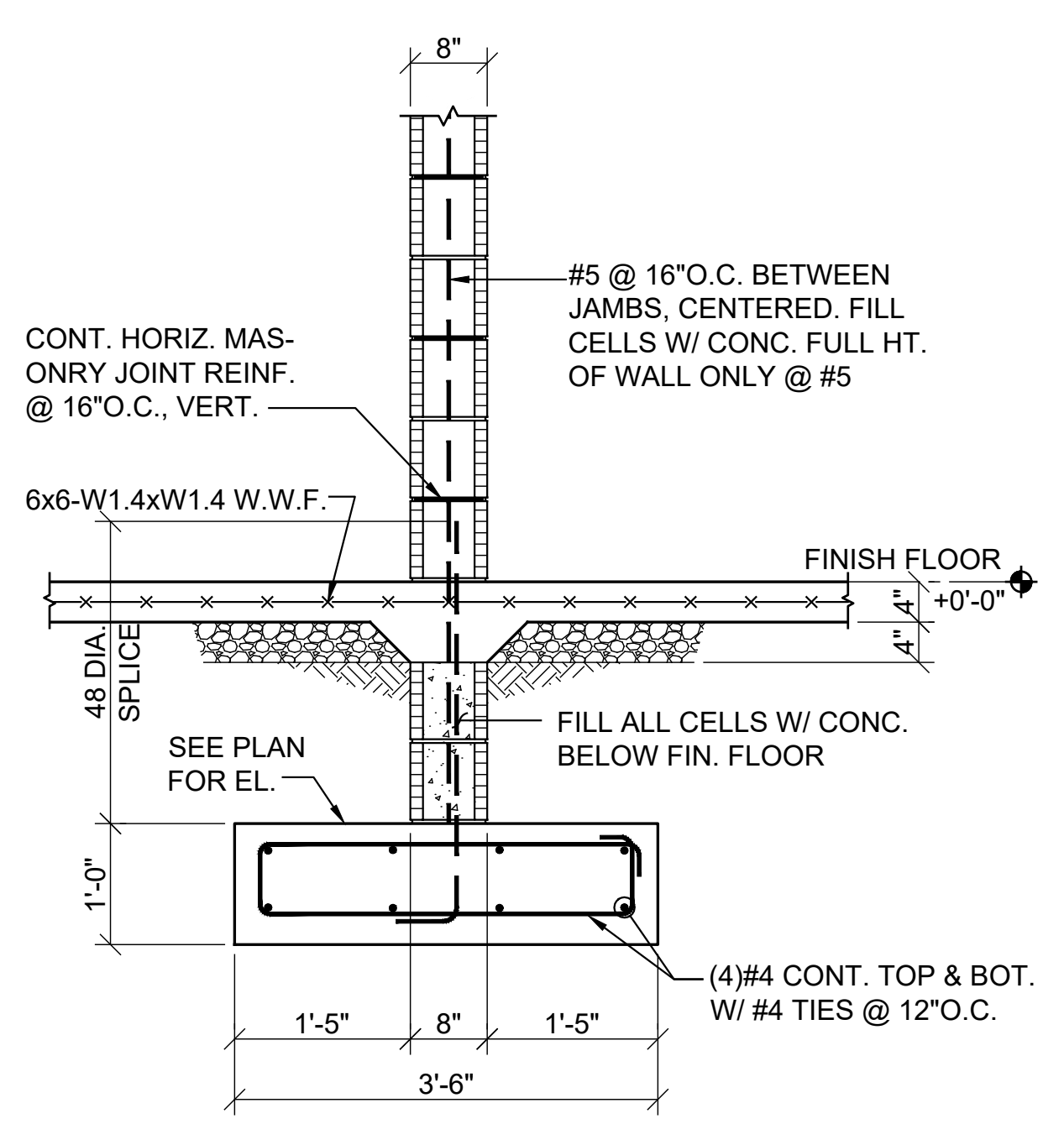


SHEET TITLE : ROOF FRAMING PLAN
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 DRAWN BY : R. Casey
 DATE : 8/27/2024
 REVISED DATE :
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 REVISED DATE :

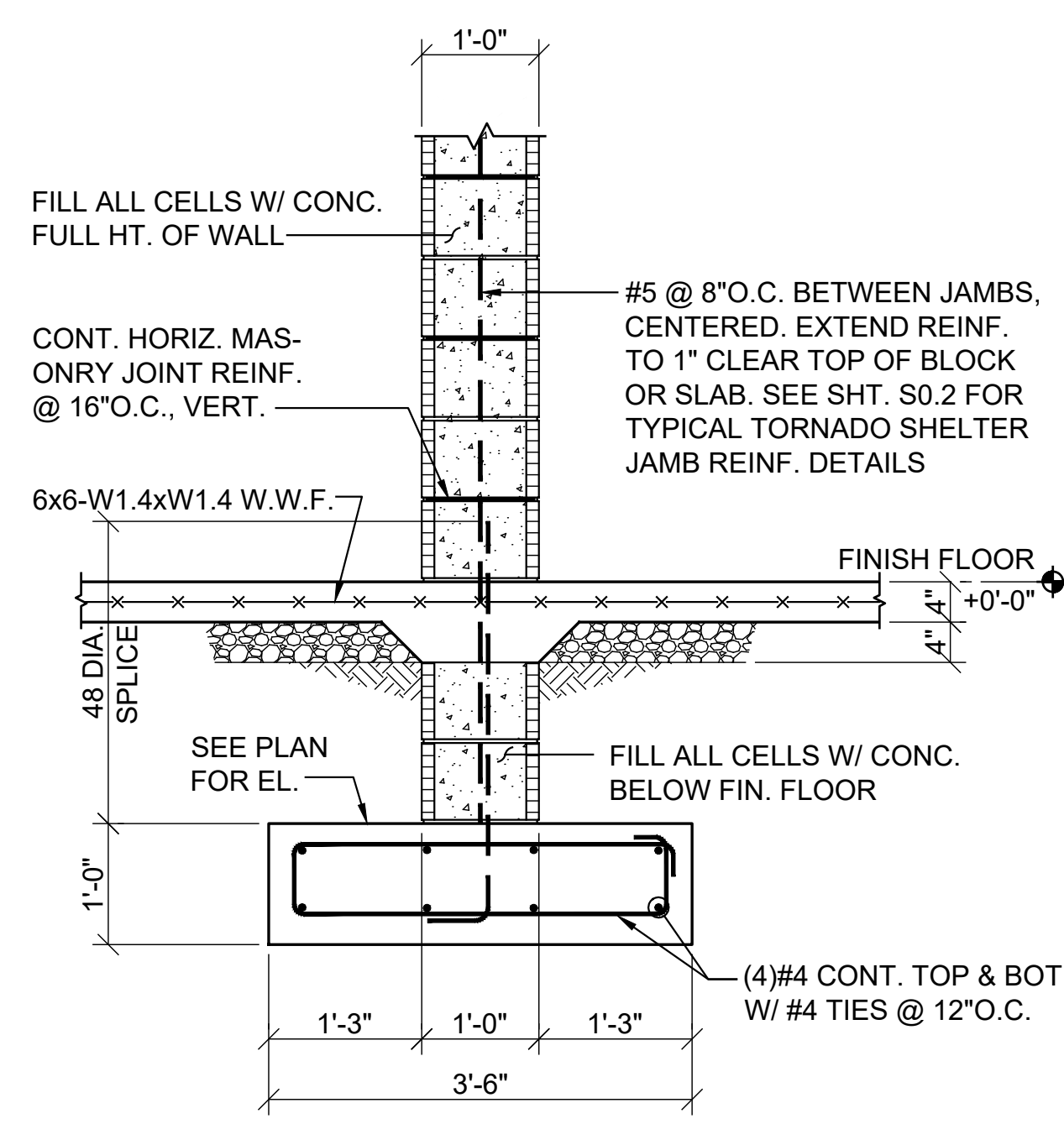
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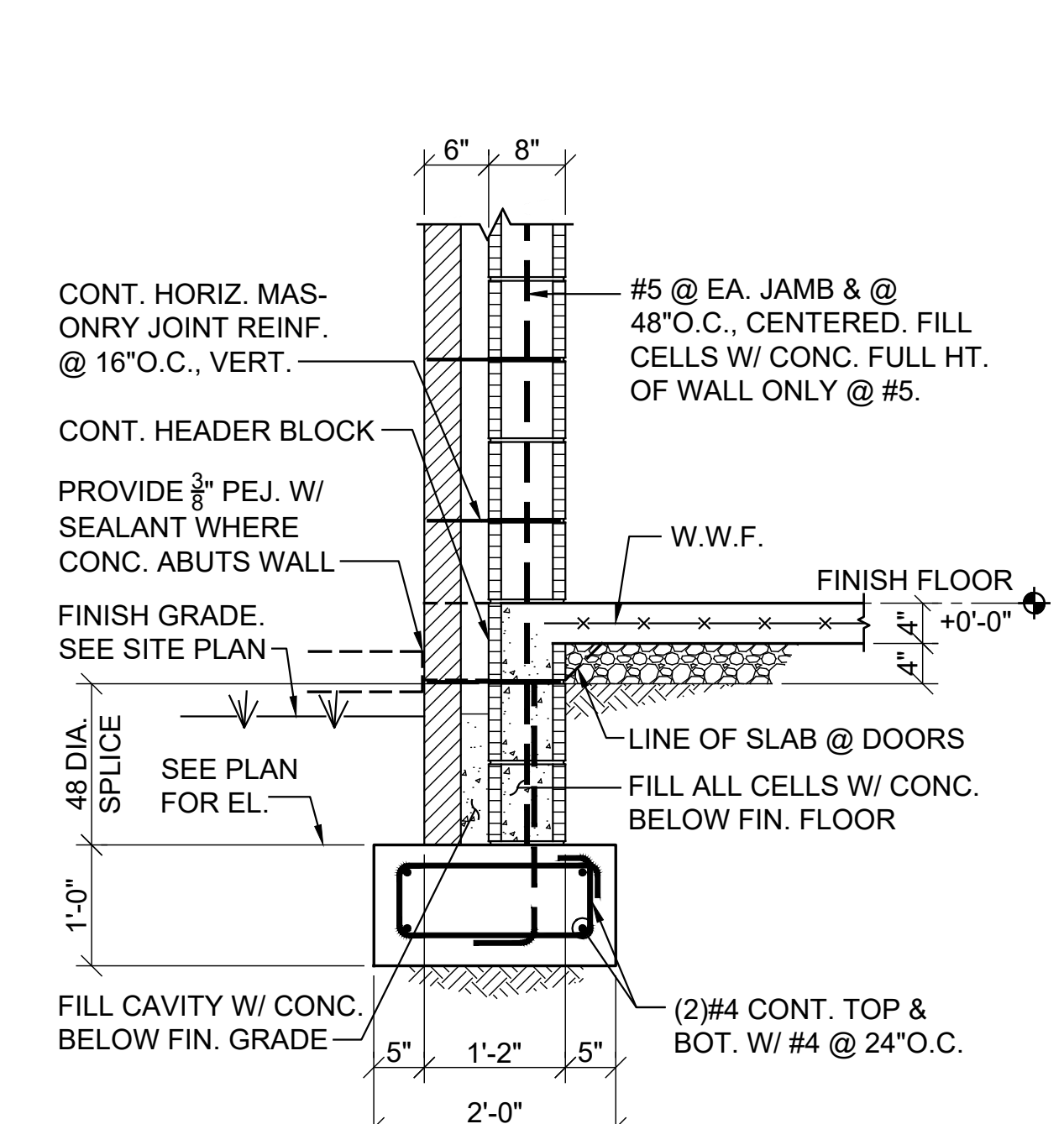
SECTION 1
3/4"=1'-0" S2.1



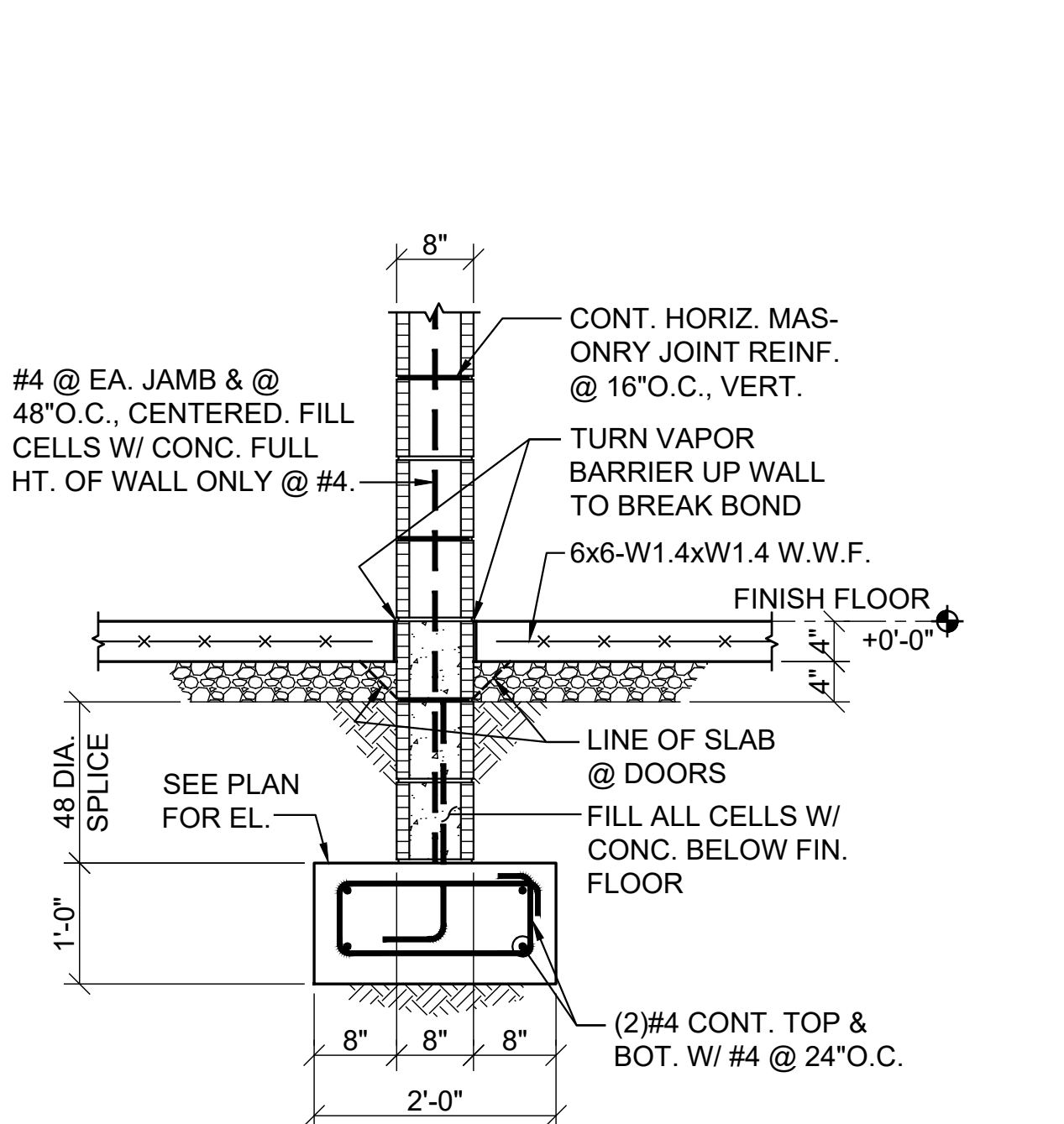
SECTION 2
3/4"=1'-0" S2.1



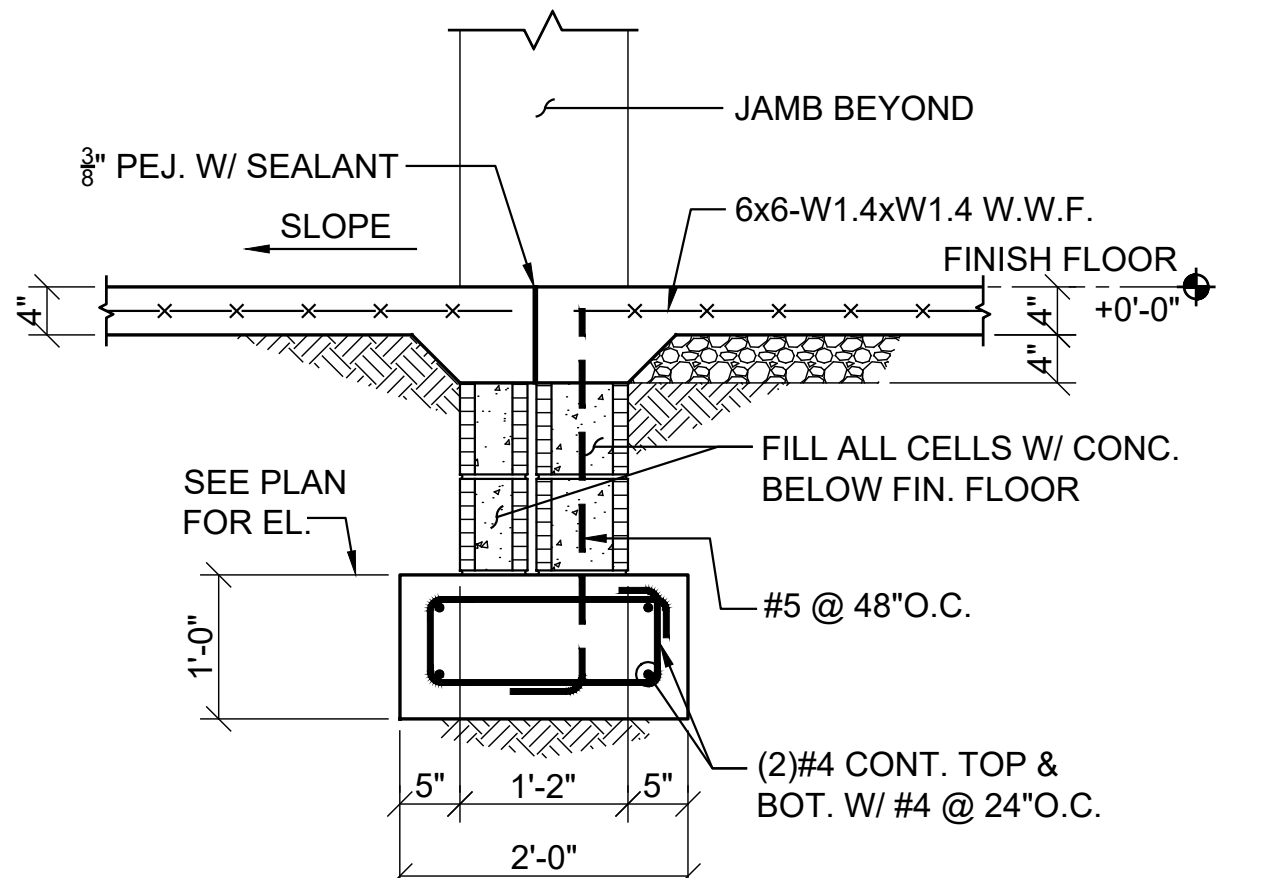
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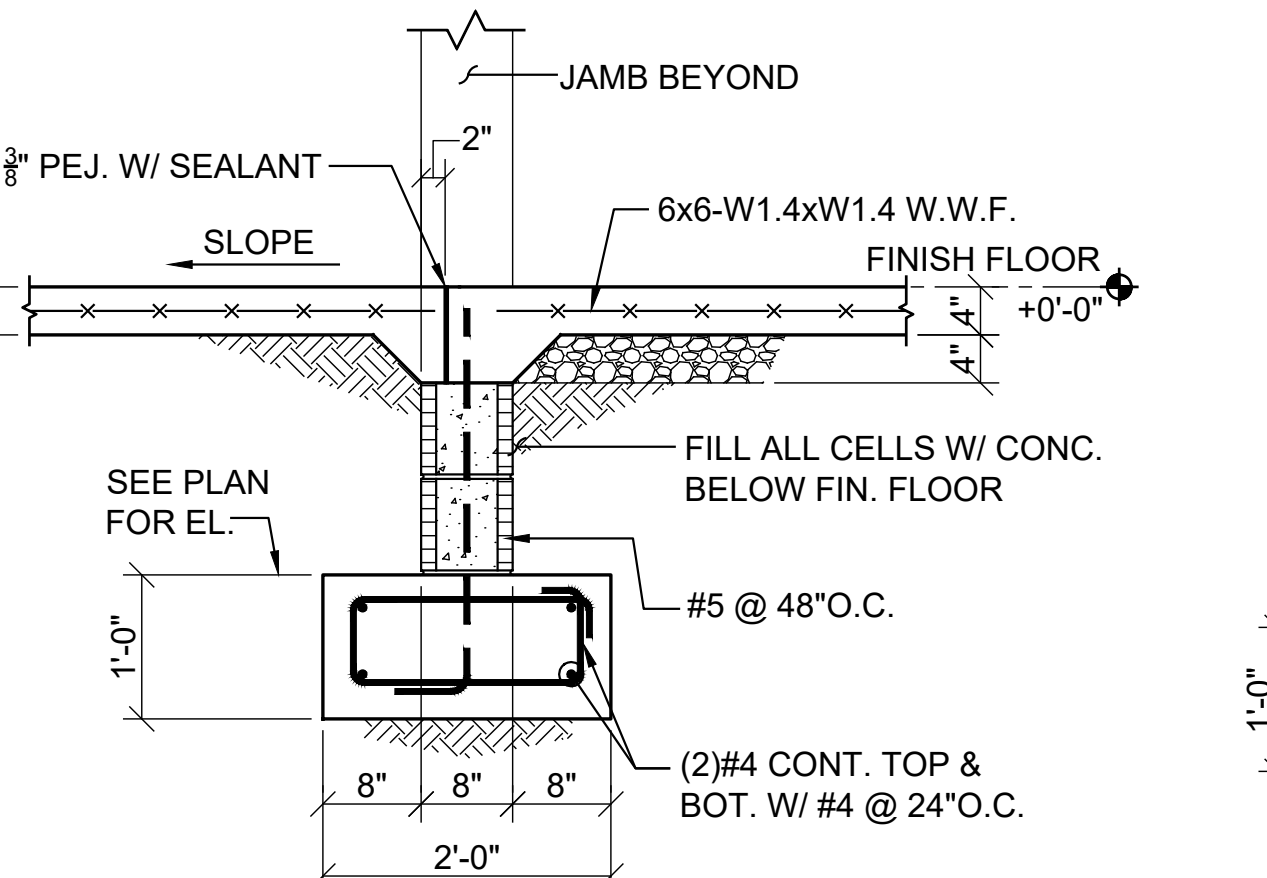
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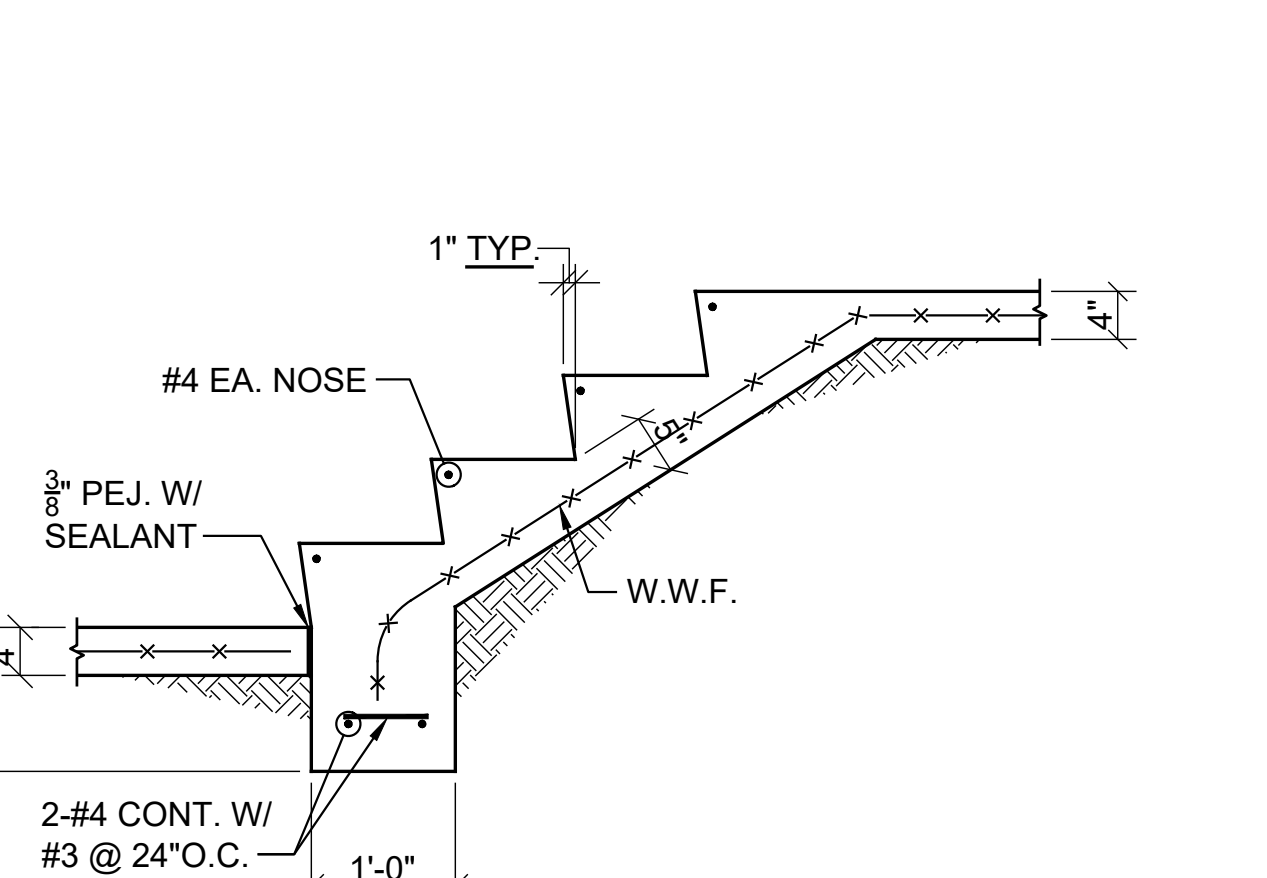
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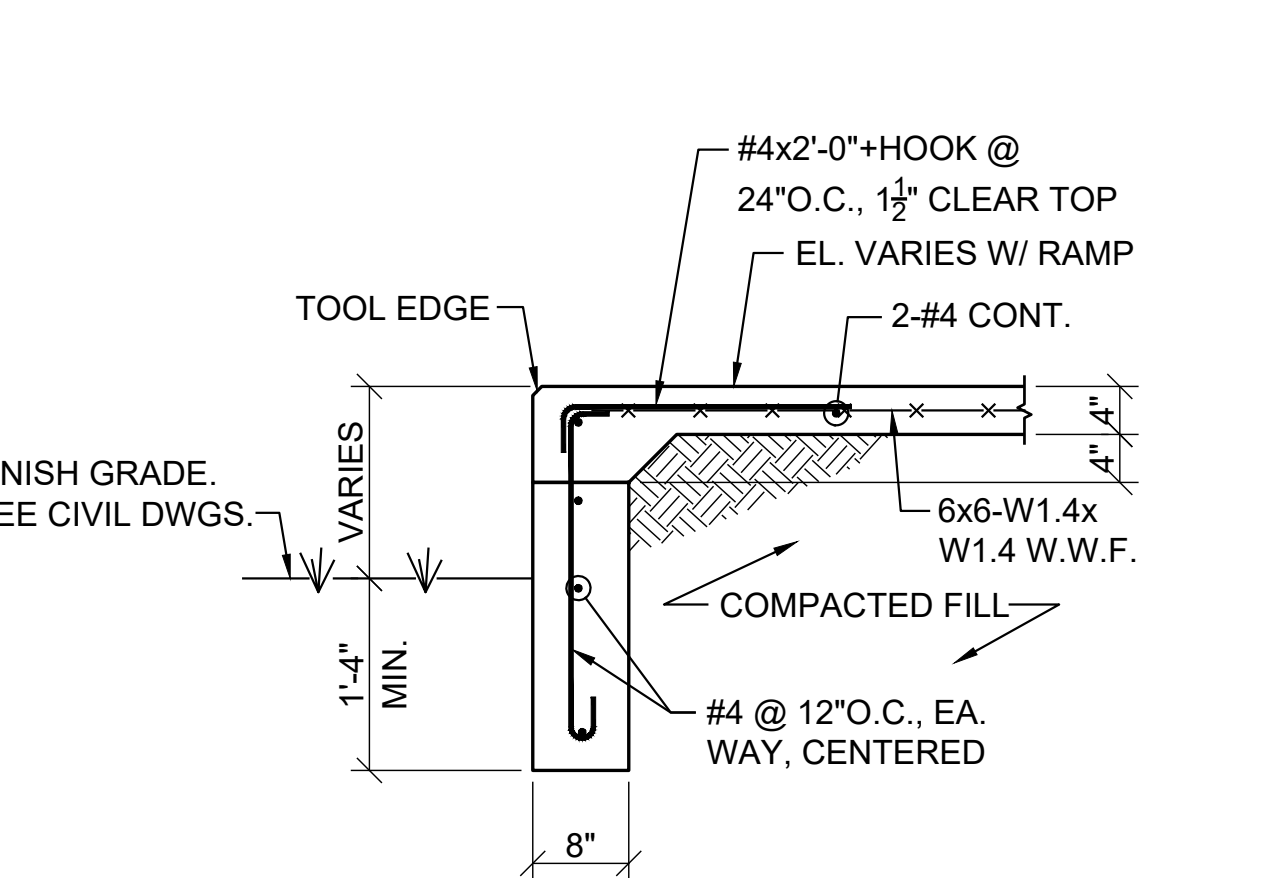
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3/4"=1'-0" S2.1



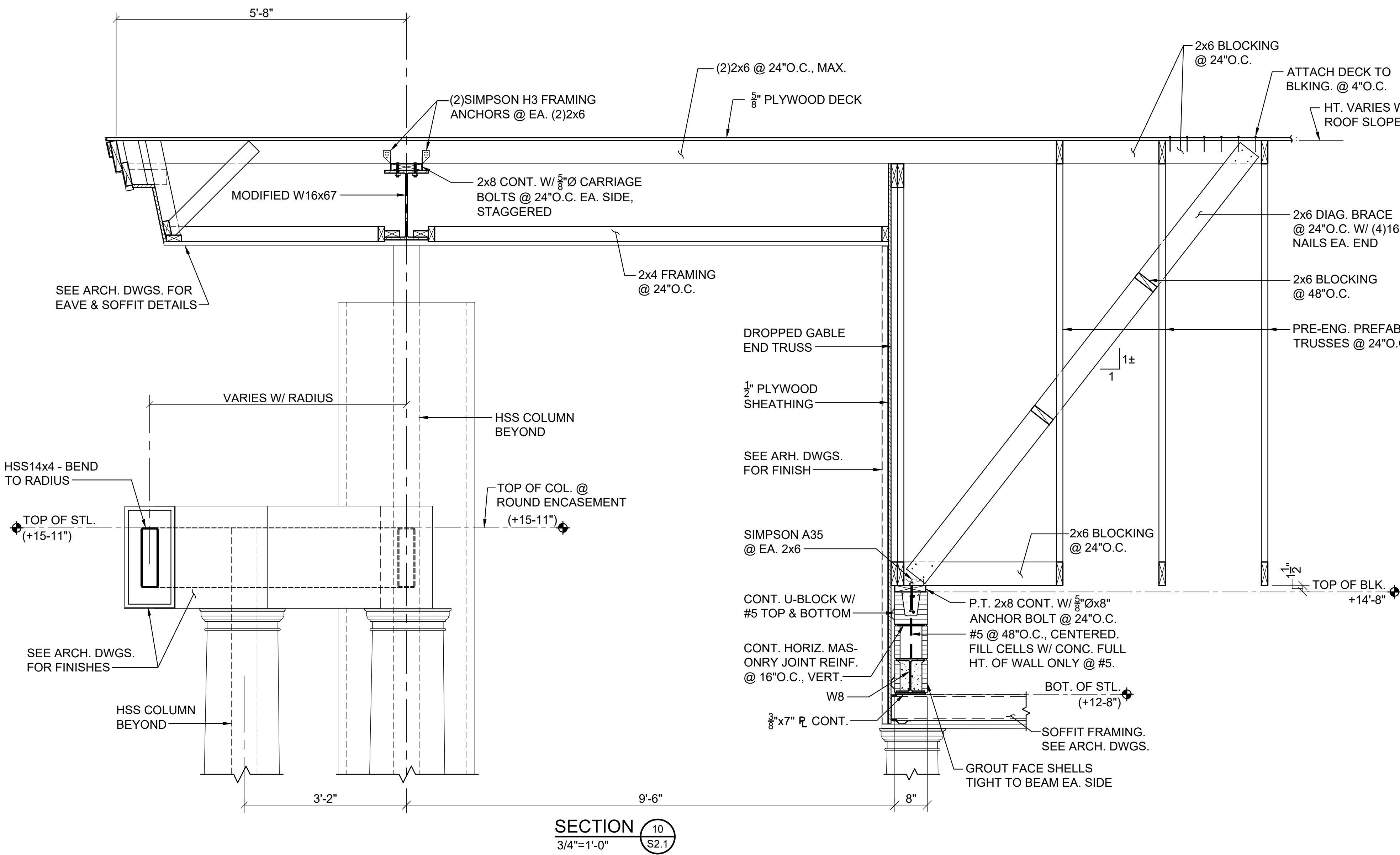
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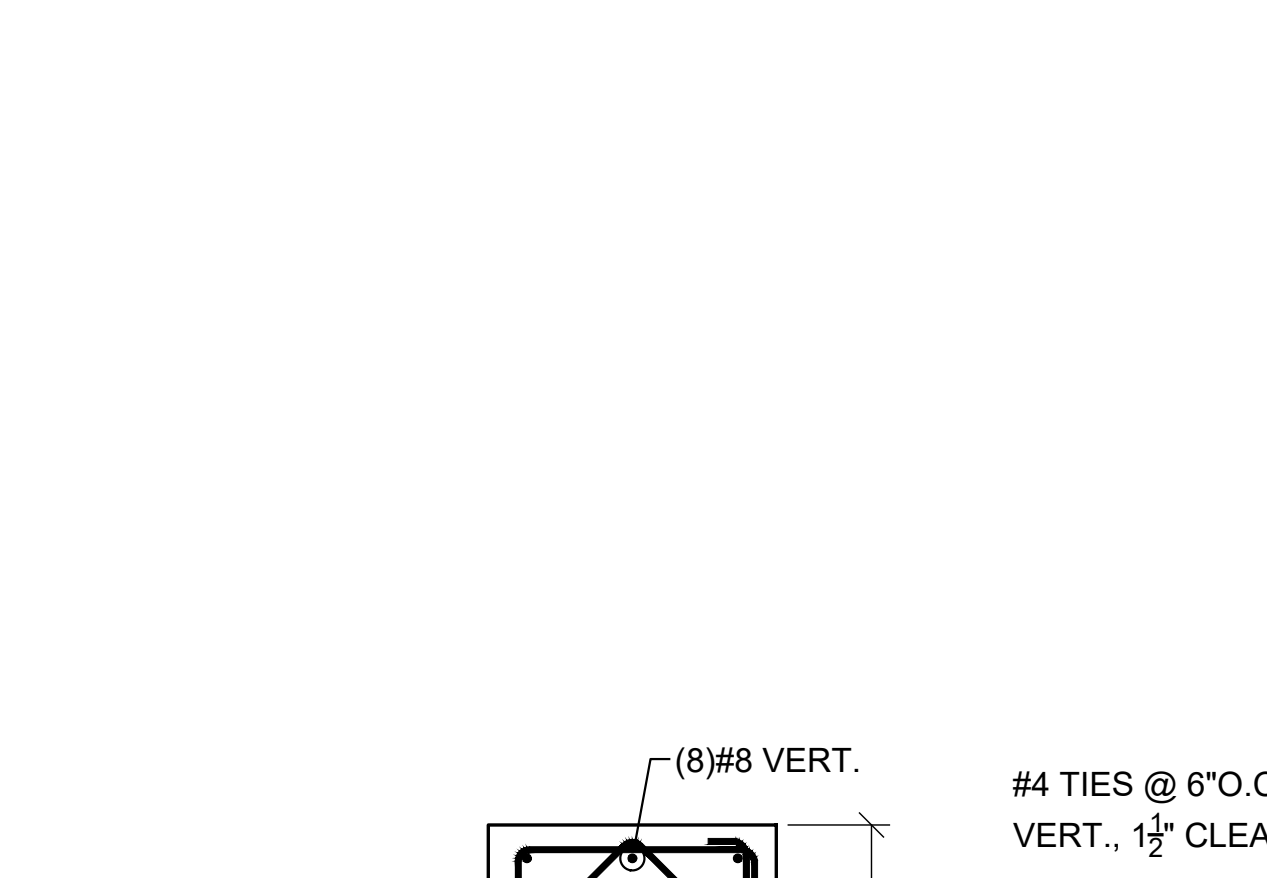
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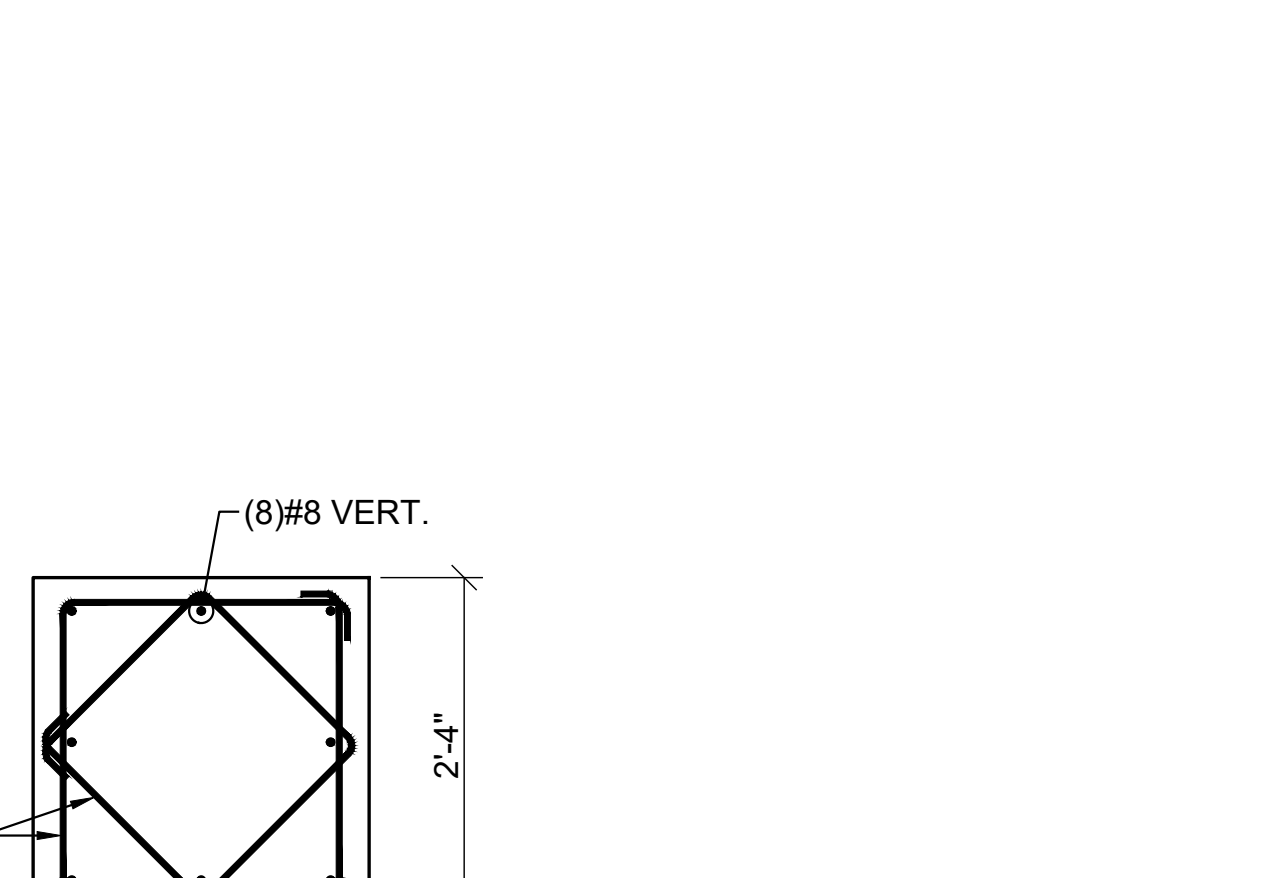
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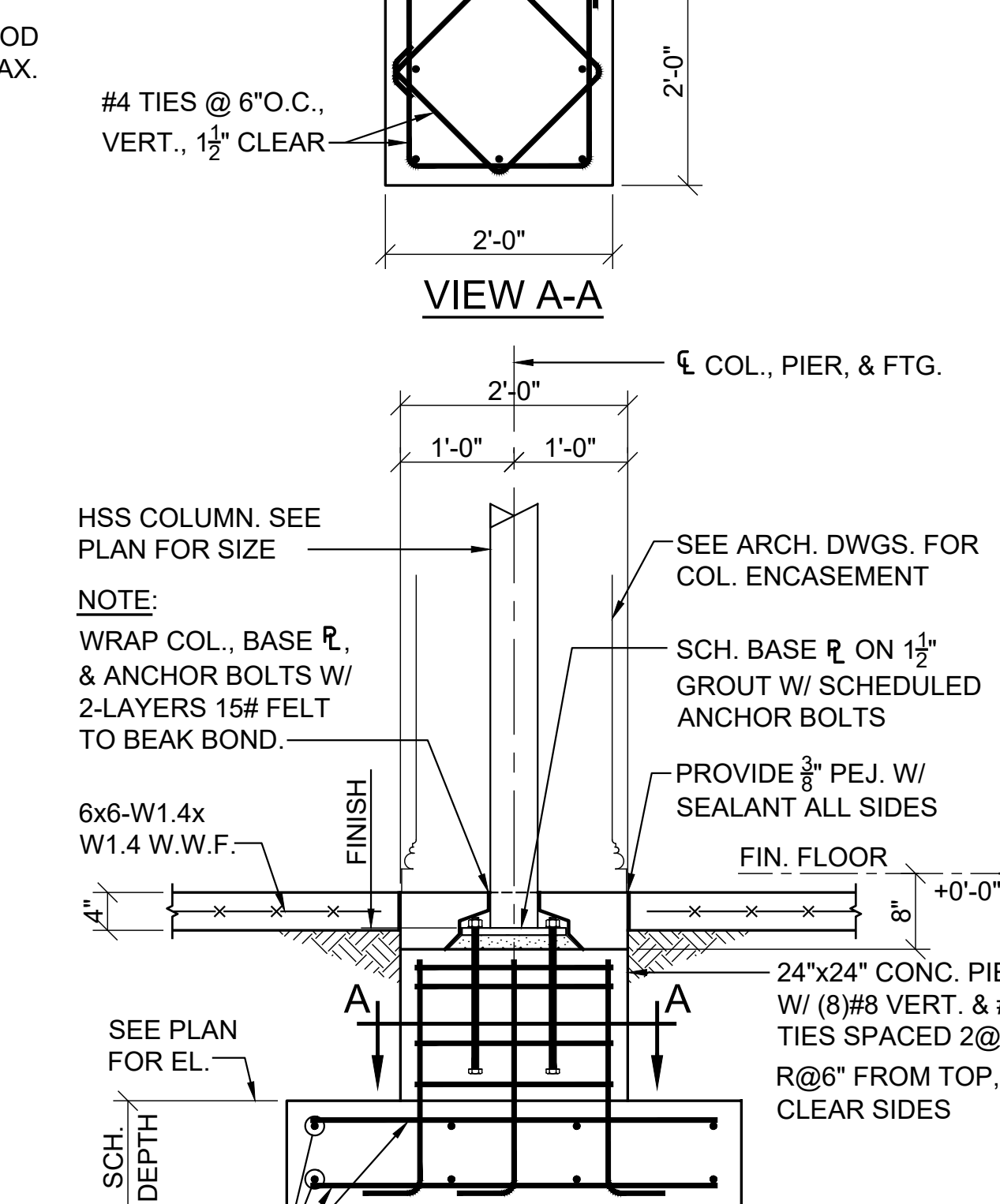
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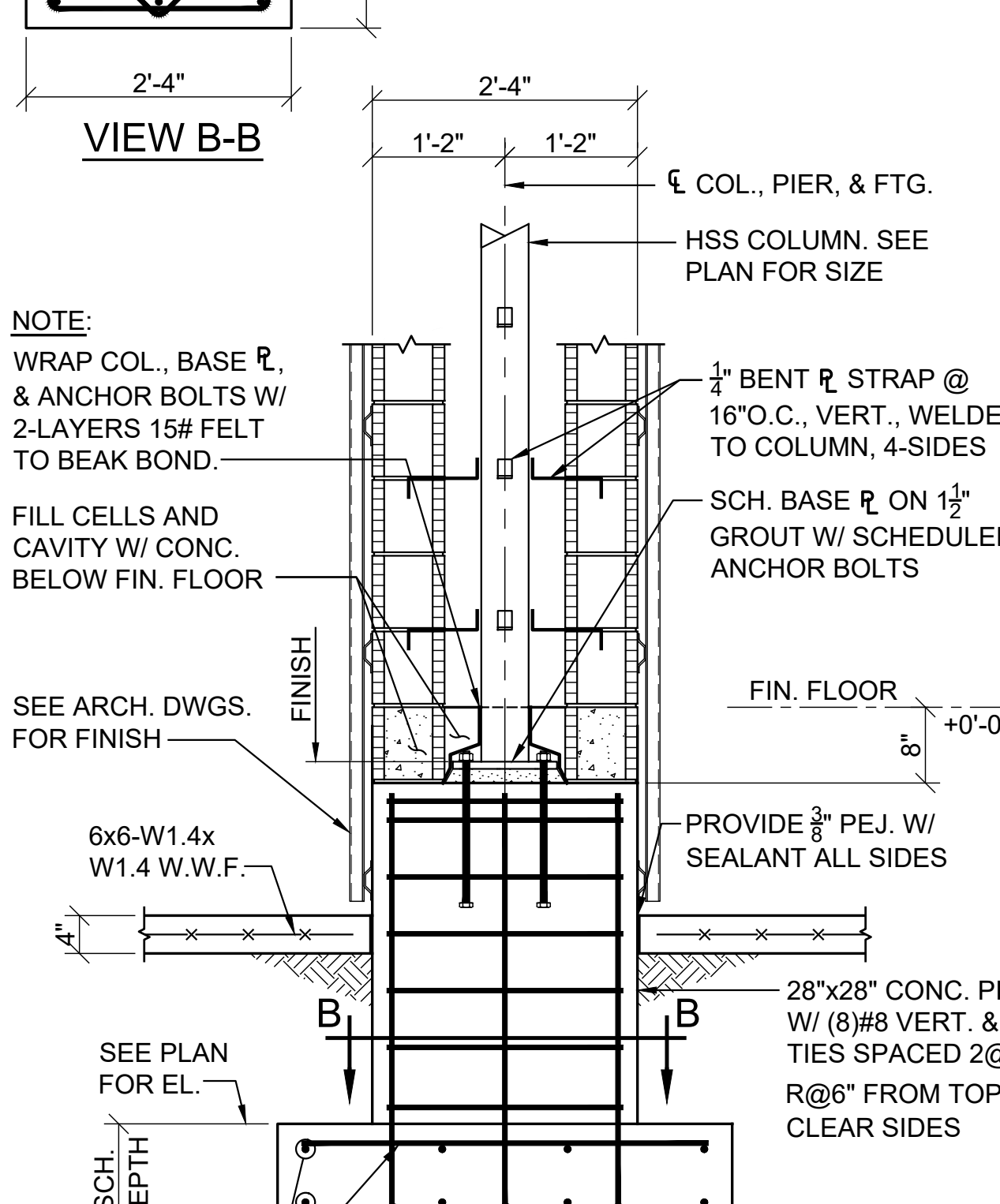
VIEW A-A



VIEW B-B



DETAIL A
3/4"=1'-0" S2.1



DETAIL B
3/4"=1'-0" S2.1

LINDEN HIGH SCHOOL

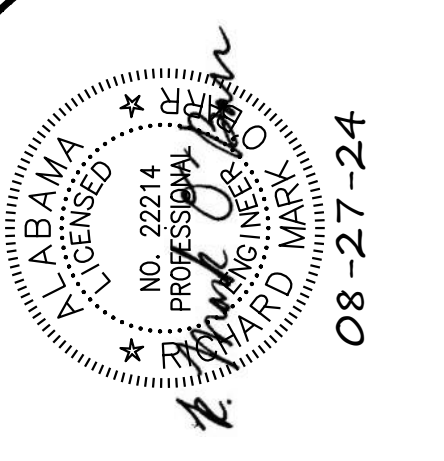
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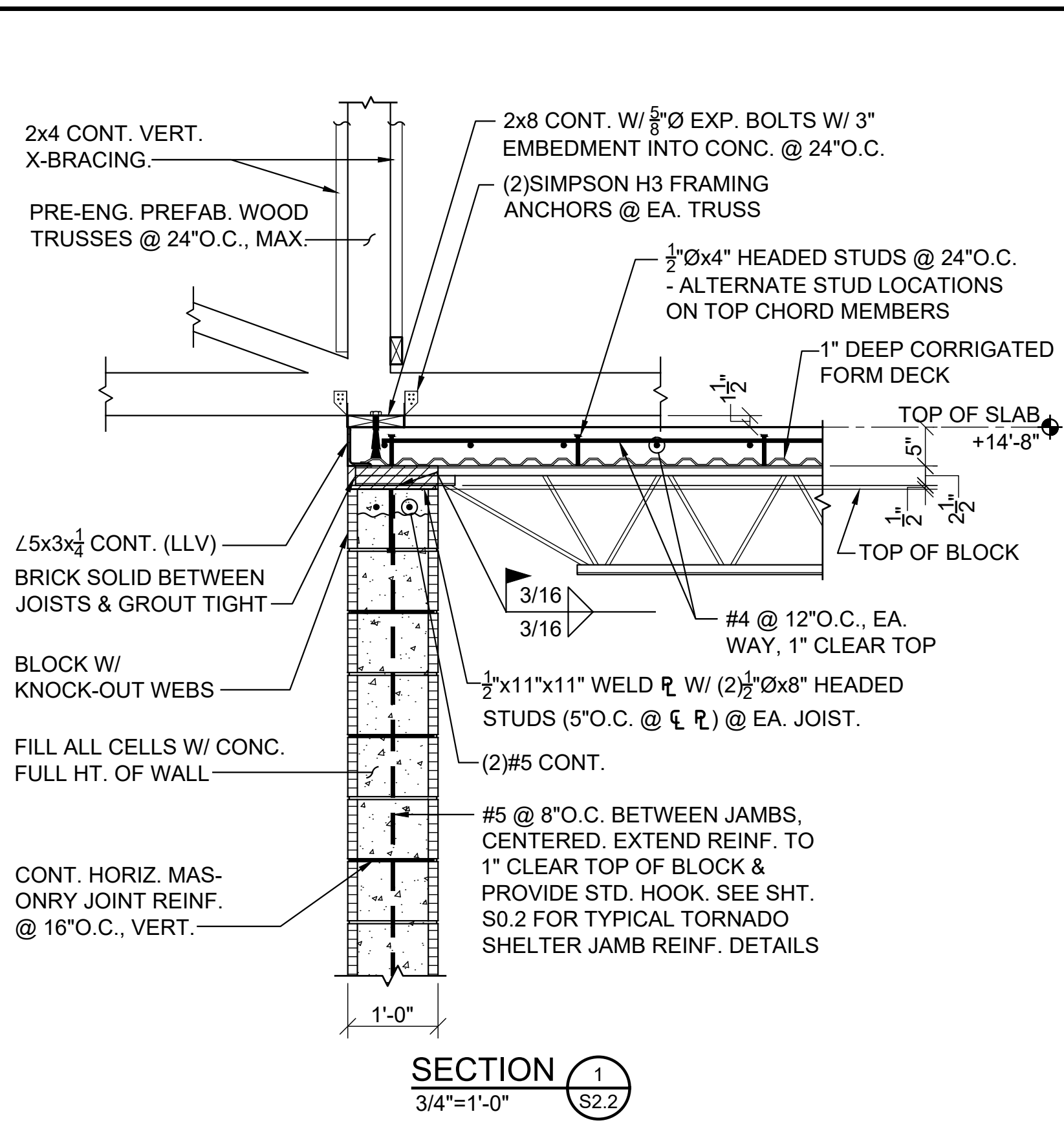
MCKEE & ASSOCIATES ARCHITECTS, INC.

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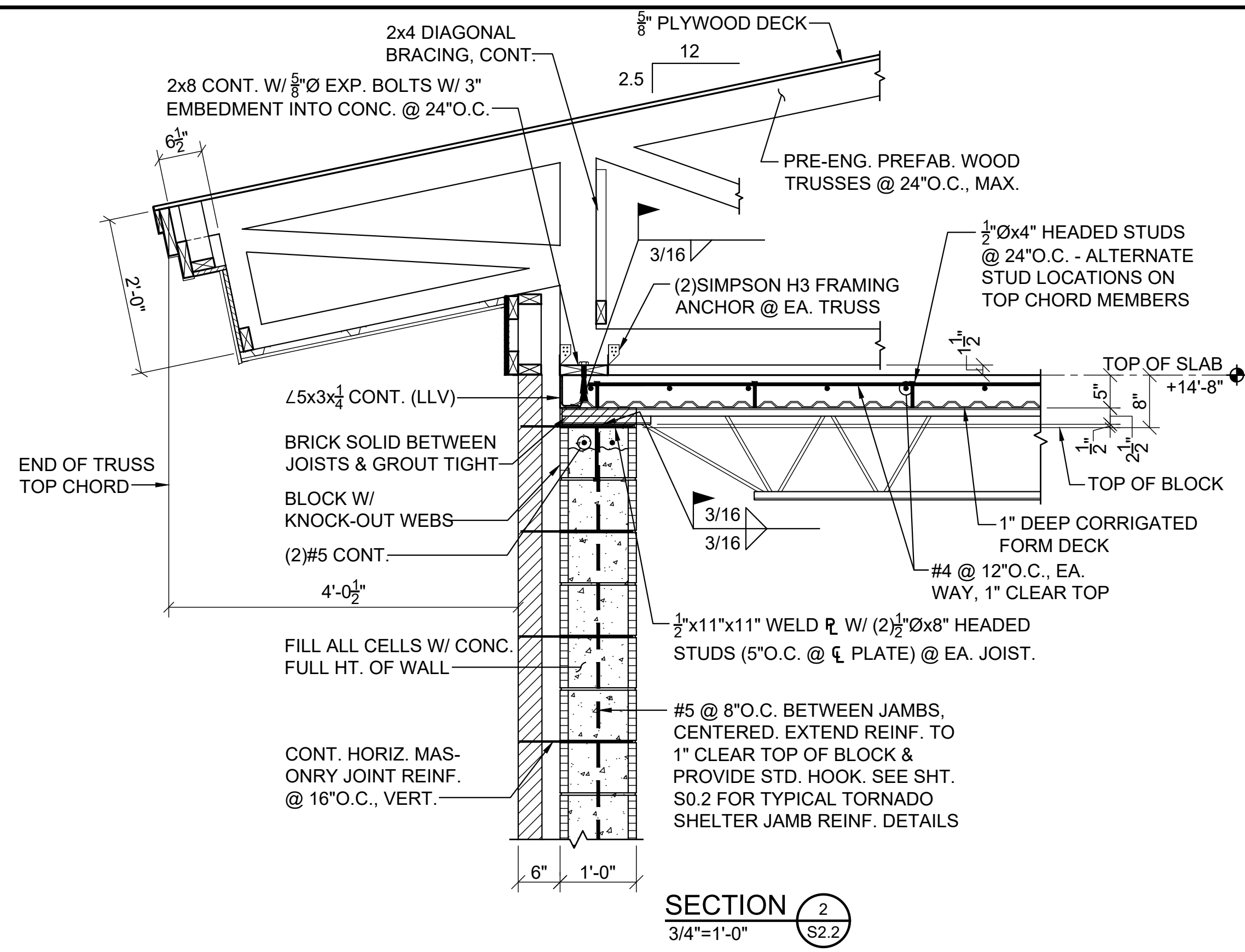


SHEET TITLE :	SECTIONS AND DETAILS
MCKEE JOB # :	22-315
DRAWN BY :	R. Casey
DATE :	8/27/2024
REVISED DATE :	
REVISED DATE :	
REVISED DATE :	

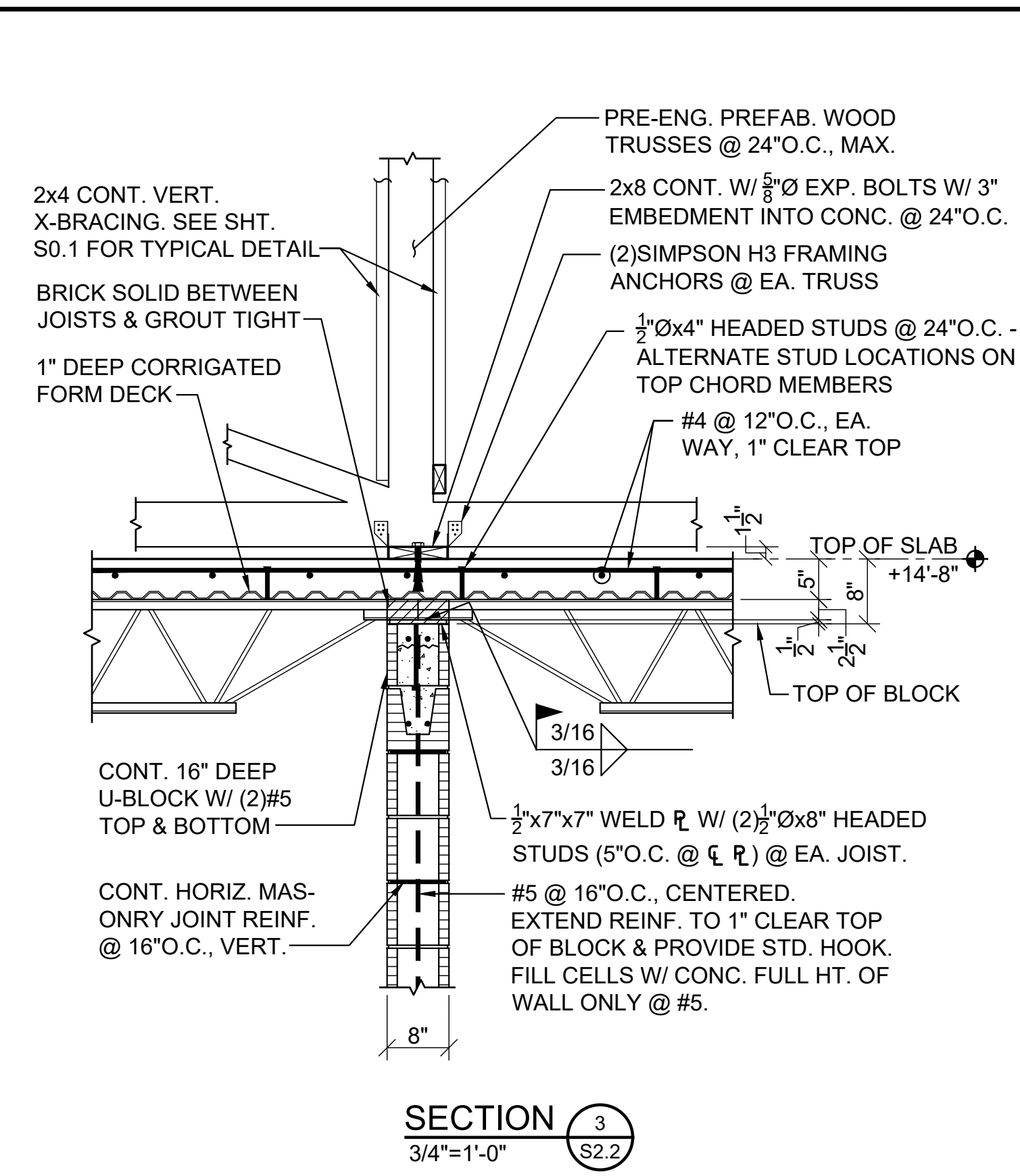
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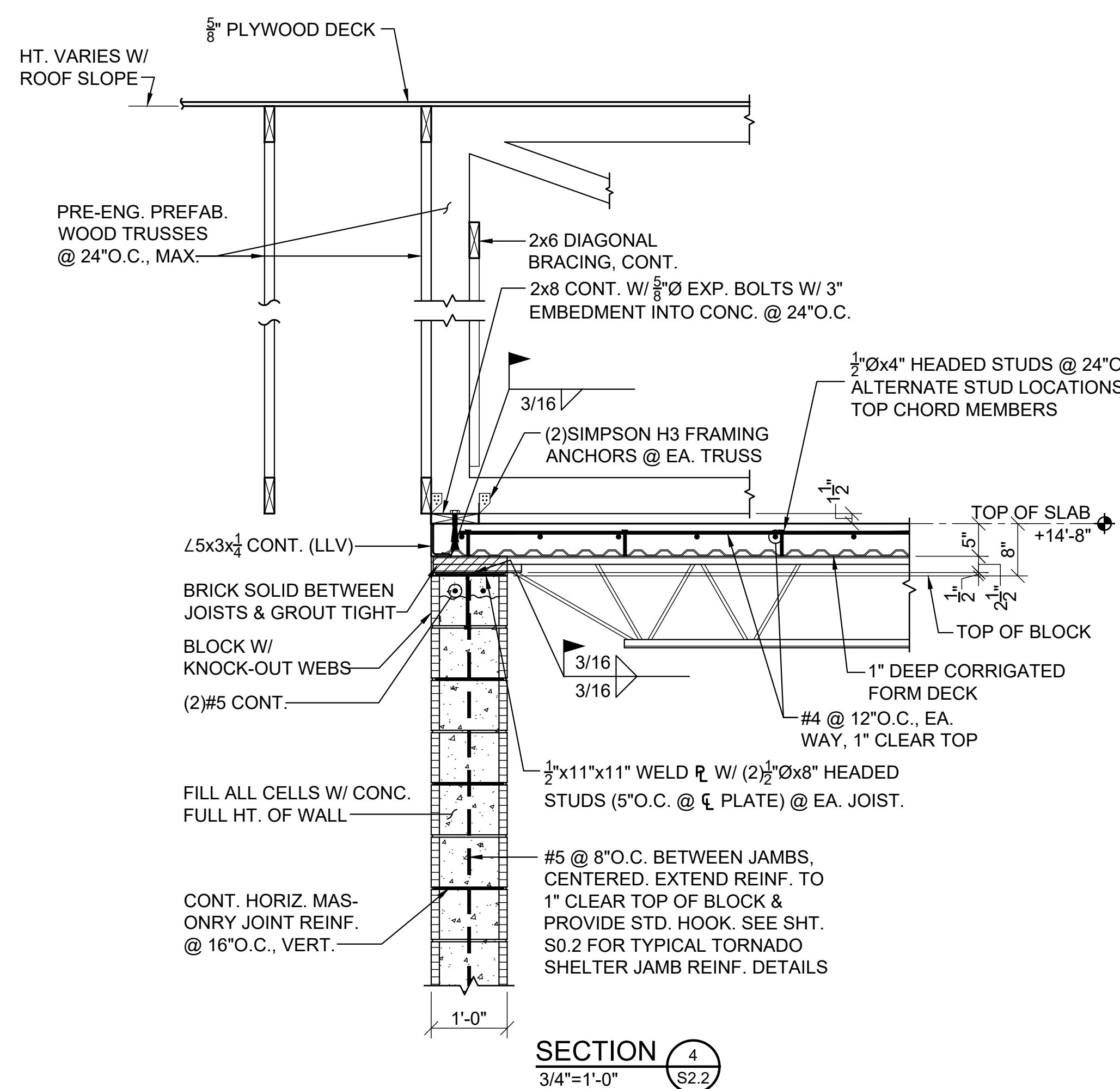
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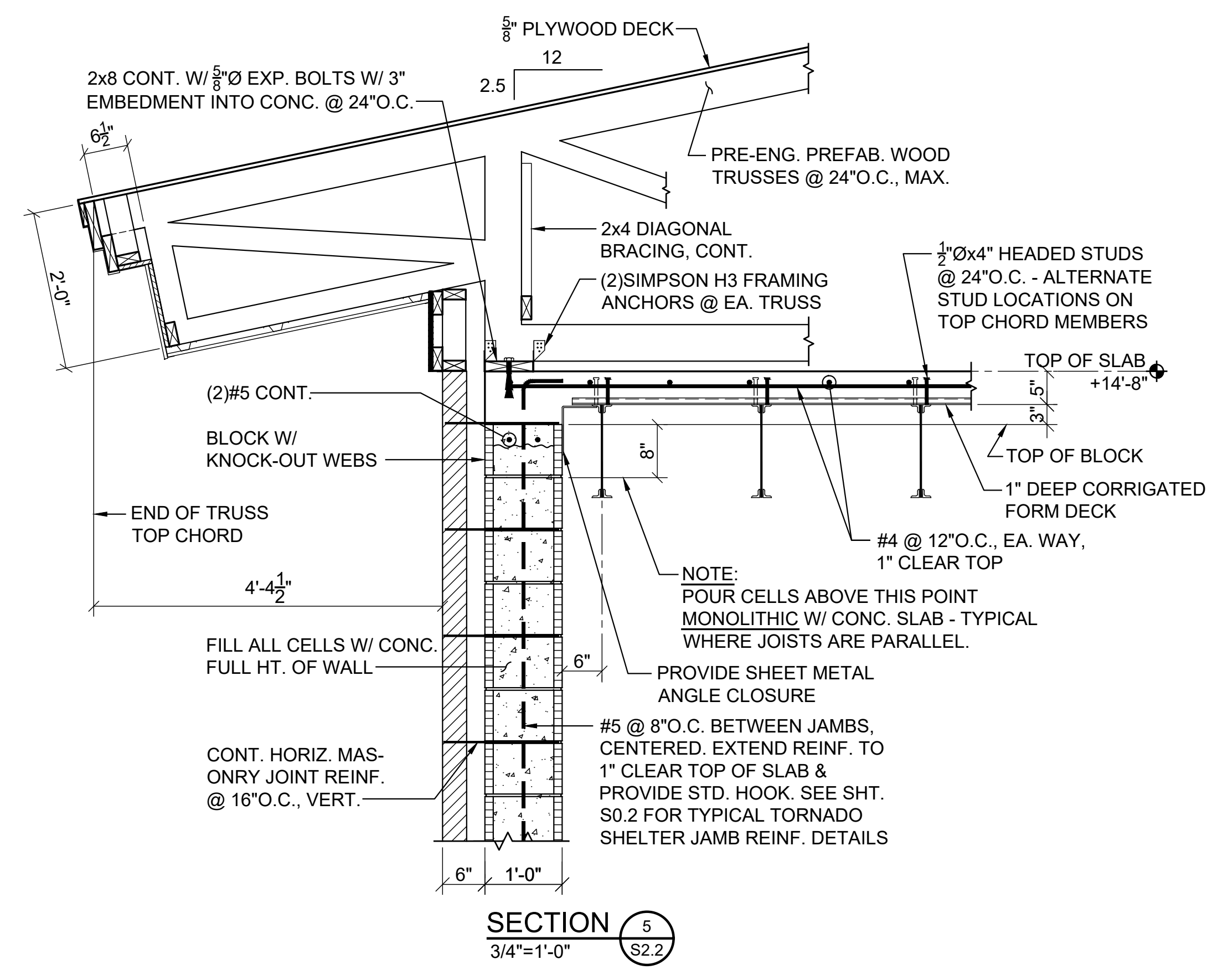
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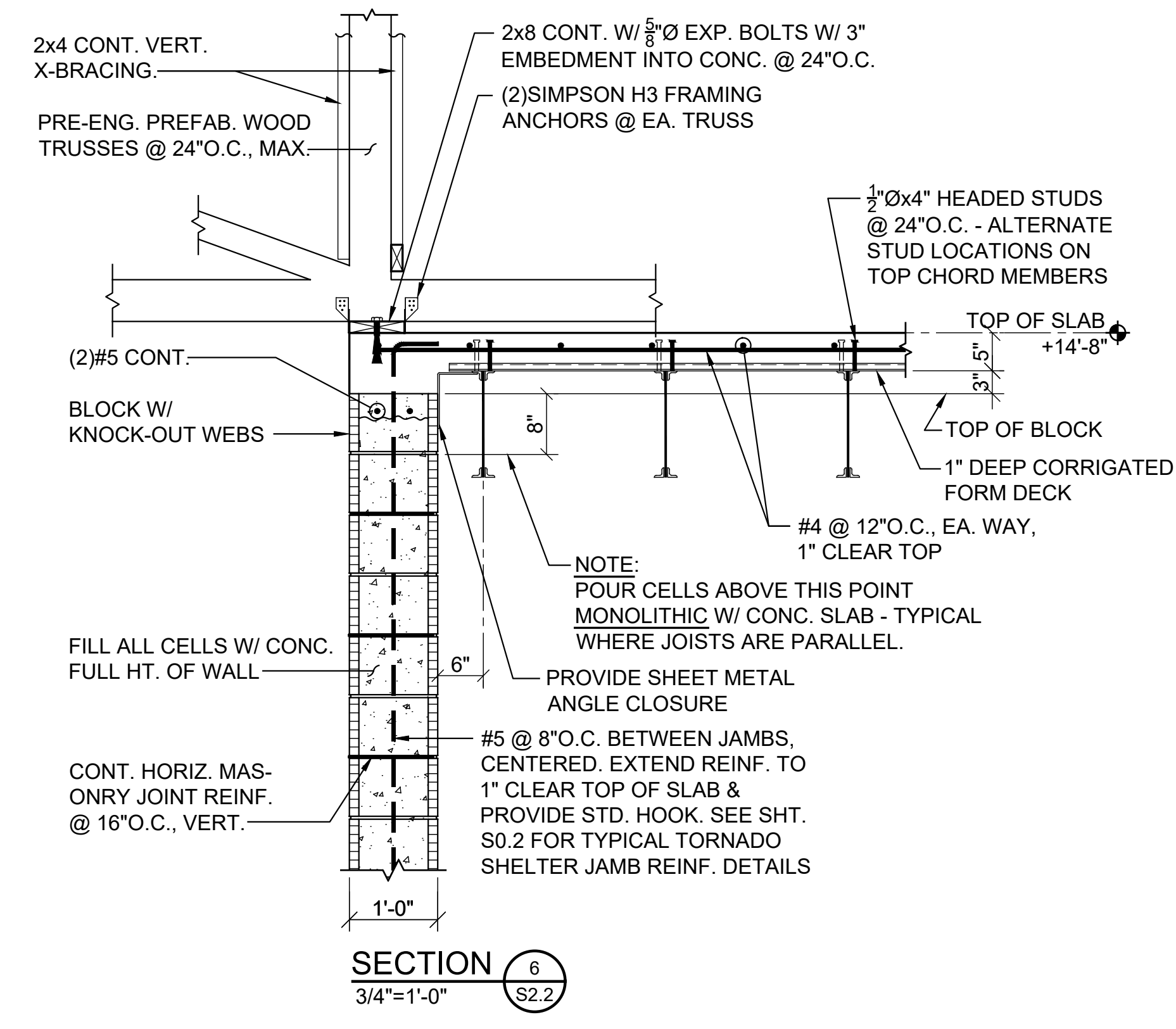
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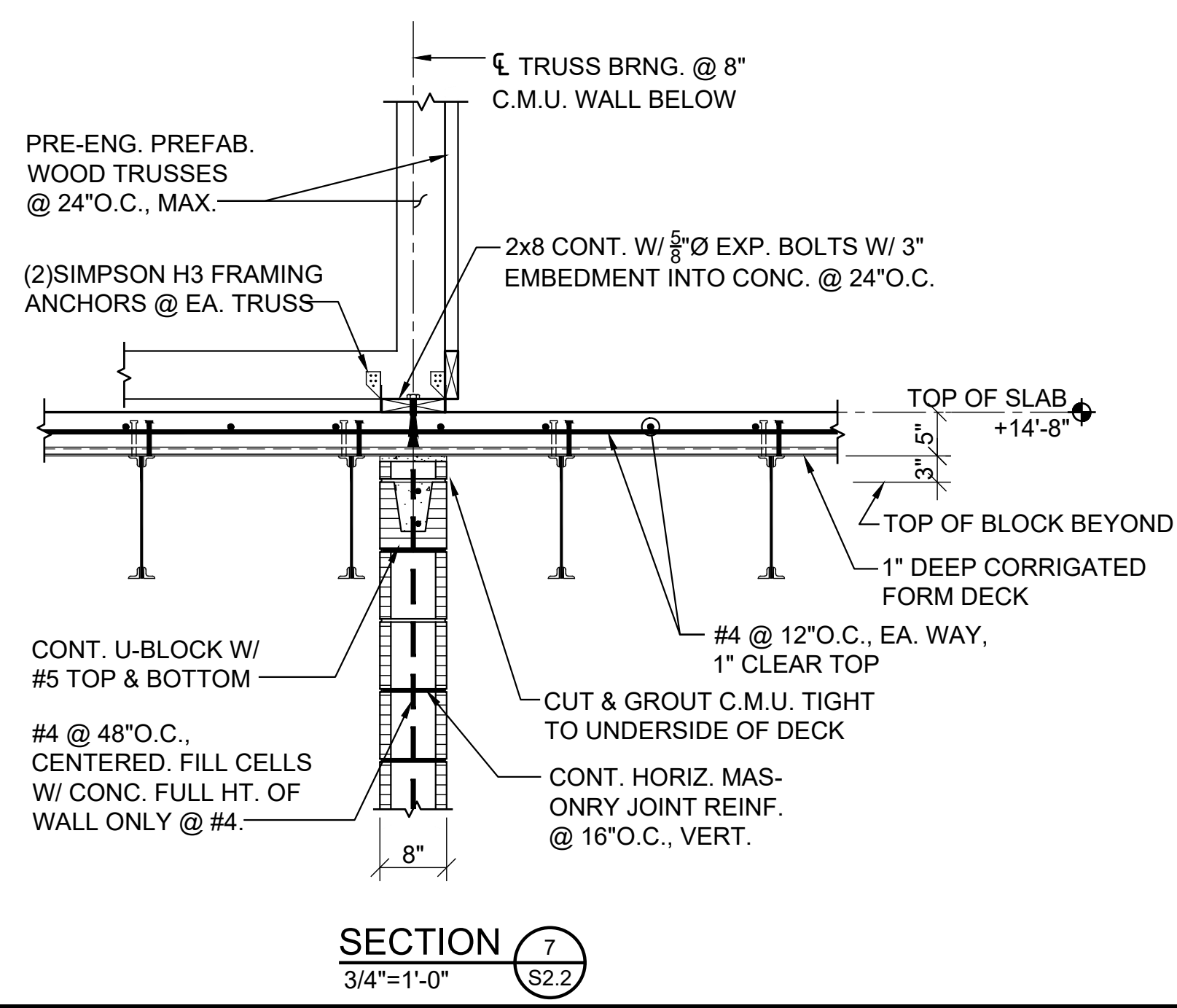
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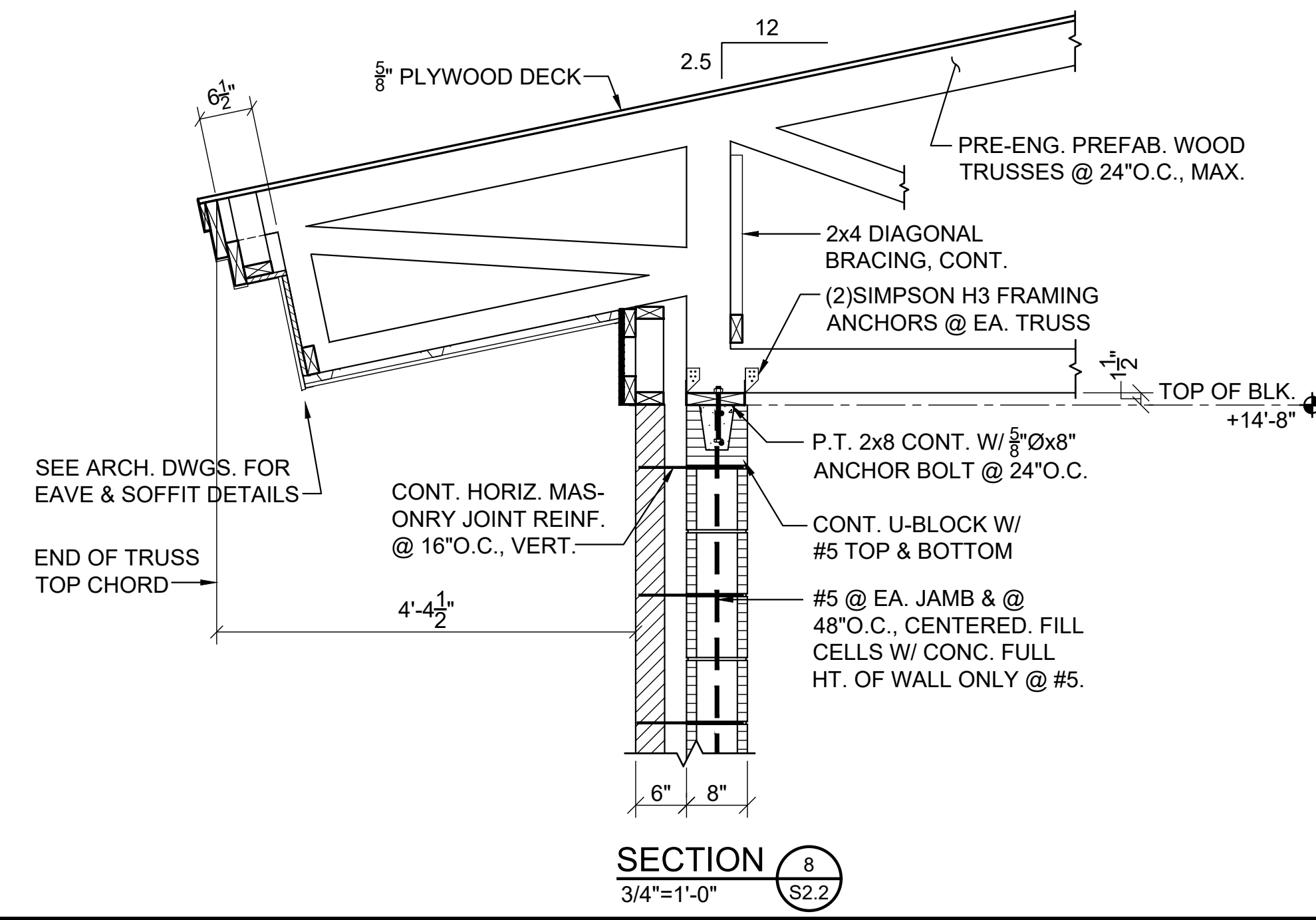
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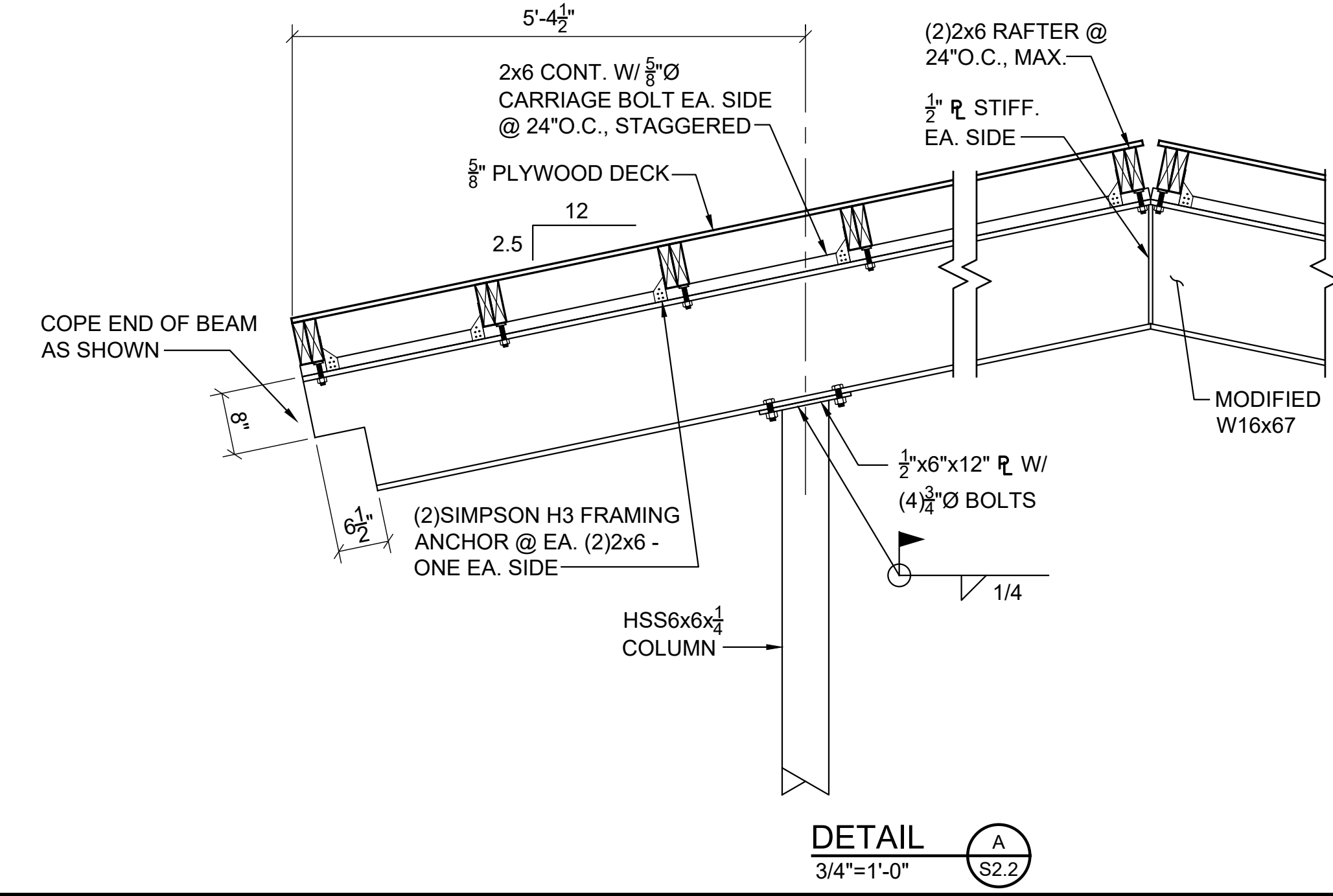
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3/4"=1'-0" S2.2



SECTION 7
3/4"=1'-0" S2.2



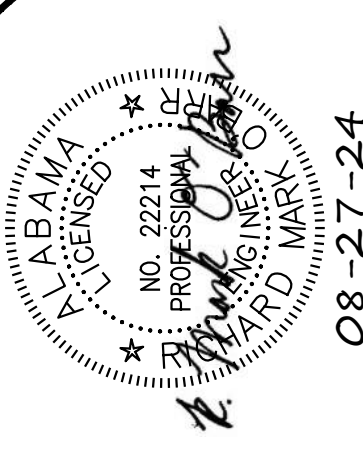
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3/4"=1'-0" S2.2



DETAIL A
3/4"=1'-0" S2.2

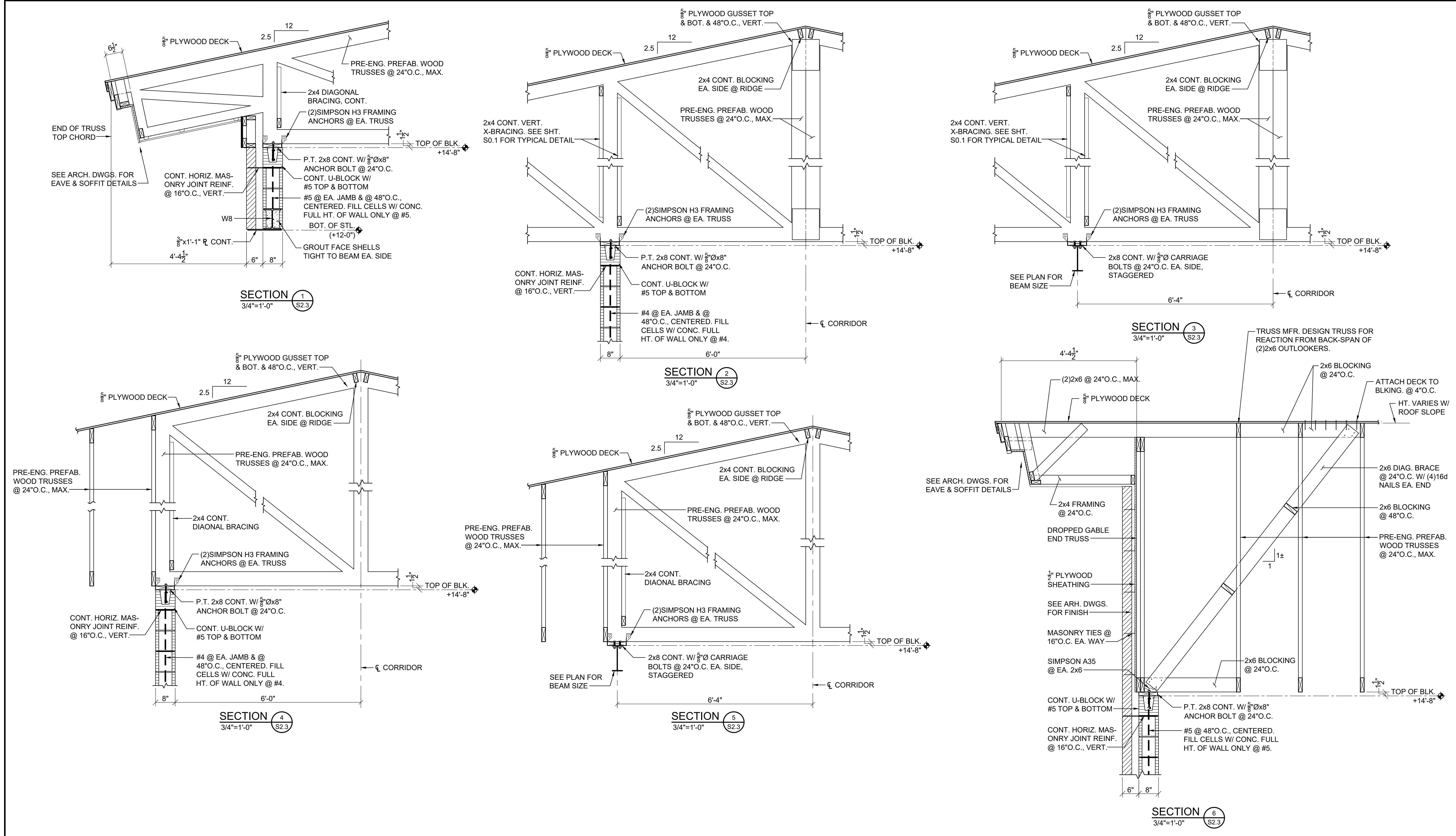
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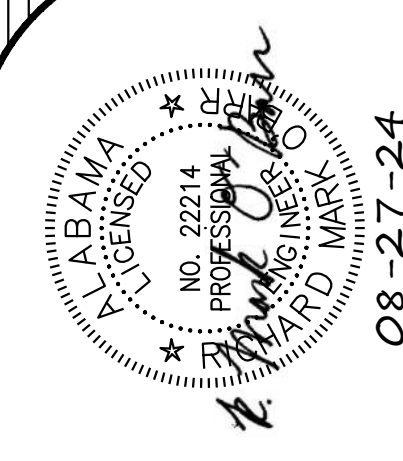


SHEET TITLE : SECTIONS AND DETAILS
MCKEE JOB # : 22-315
DRAWN BY : R. Casey
DATE : 8/27/2024
REVISED DATE :
REVISED DATE :
REVISED DATE :

SHEET NO. : **S2.2**



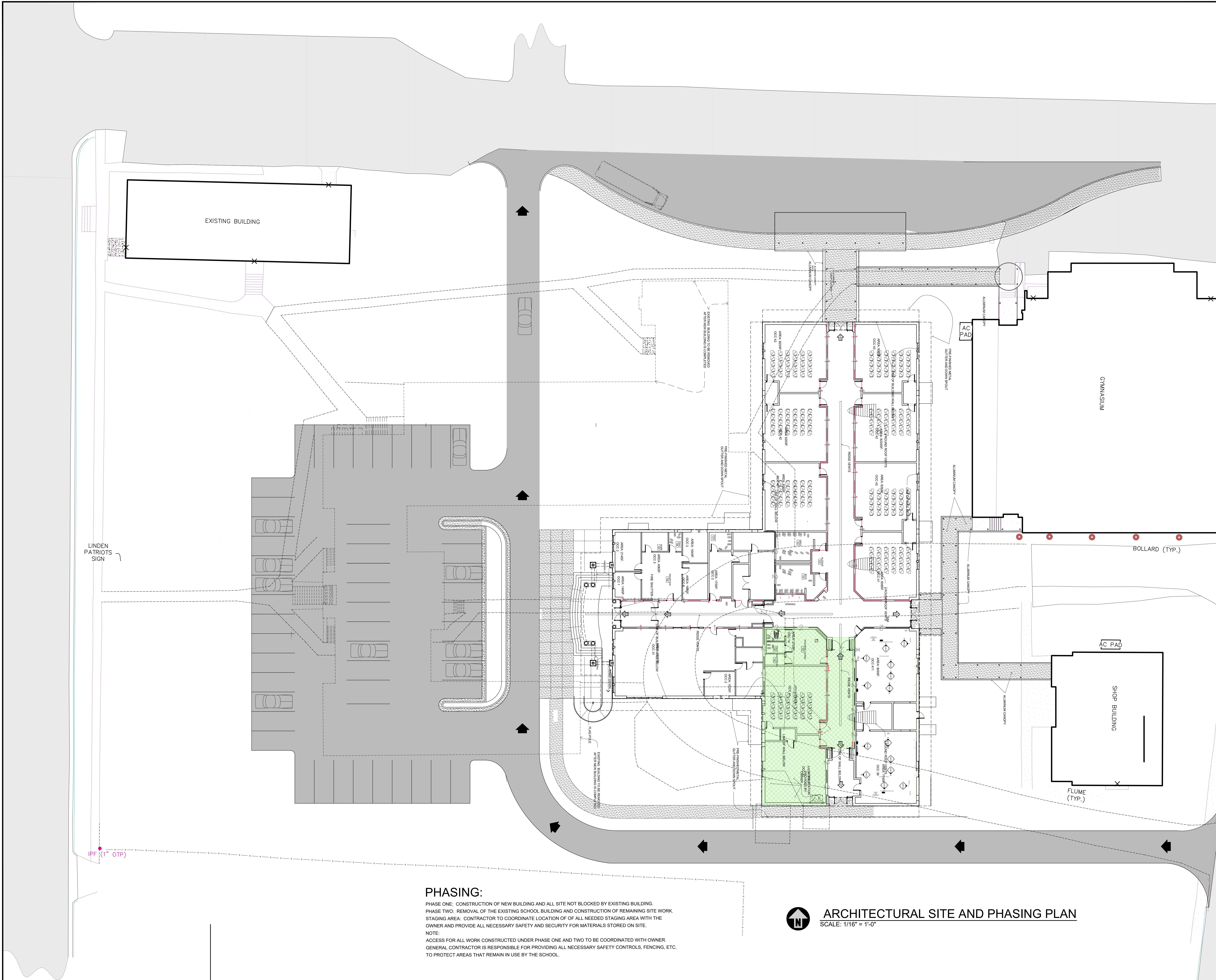
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SHEET TITLE : SECTIONS AND DETAILS
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 DRAWN BY : R. Casey
 DATE : 8/27/2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

SHEET NO. : **S2.3**



PHASING:

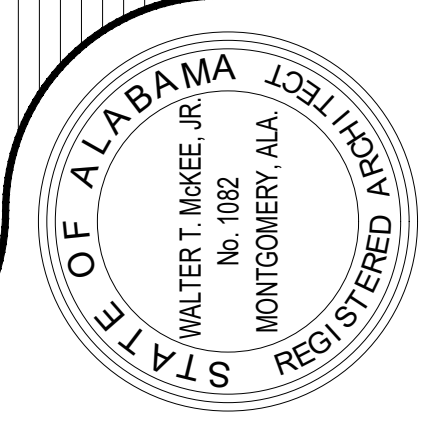
PHASE ONE: CONSTRUCTION OF NEW BUILDING AND ALL SITE NOT BLOCKED BY EXISTING BUILDING.
 PHASE TWO: REMOVAL OF THE EXISTING SCHOOL BUILDING AND CONSTRUCTION OF REMAINING SITE WORK.
 STAGING AREA: CONTRACTOR TO COORDINATE LOCATION OF ALL NEEDED STAGING AREA WITH THE OWNER AND PROVIDE ALL NECESSARY SAFETY AND SECURITY FOR MATERIALS STORED ON SITE.
 NOTE:
 ACCESS FOR ALL WORK CONSTRUCTED UNDER PHASE ONE AND TWO TO BE COORDINATED WITH OWNER.
 GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY SAFETY CONTROLS, FENCING, ETC.
 TO PROTECT AREAS THAT REMAIN IN USE BY THE SCHOOL.



ARCHITECTURAL SITE AND PHASING PLAN
 SCALE: 1/16" = 1'-0"

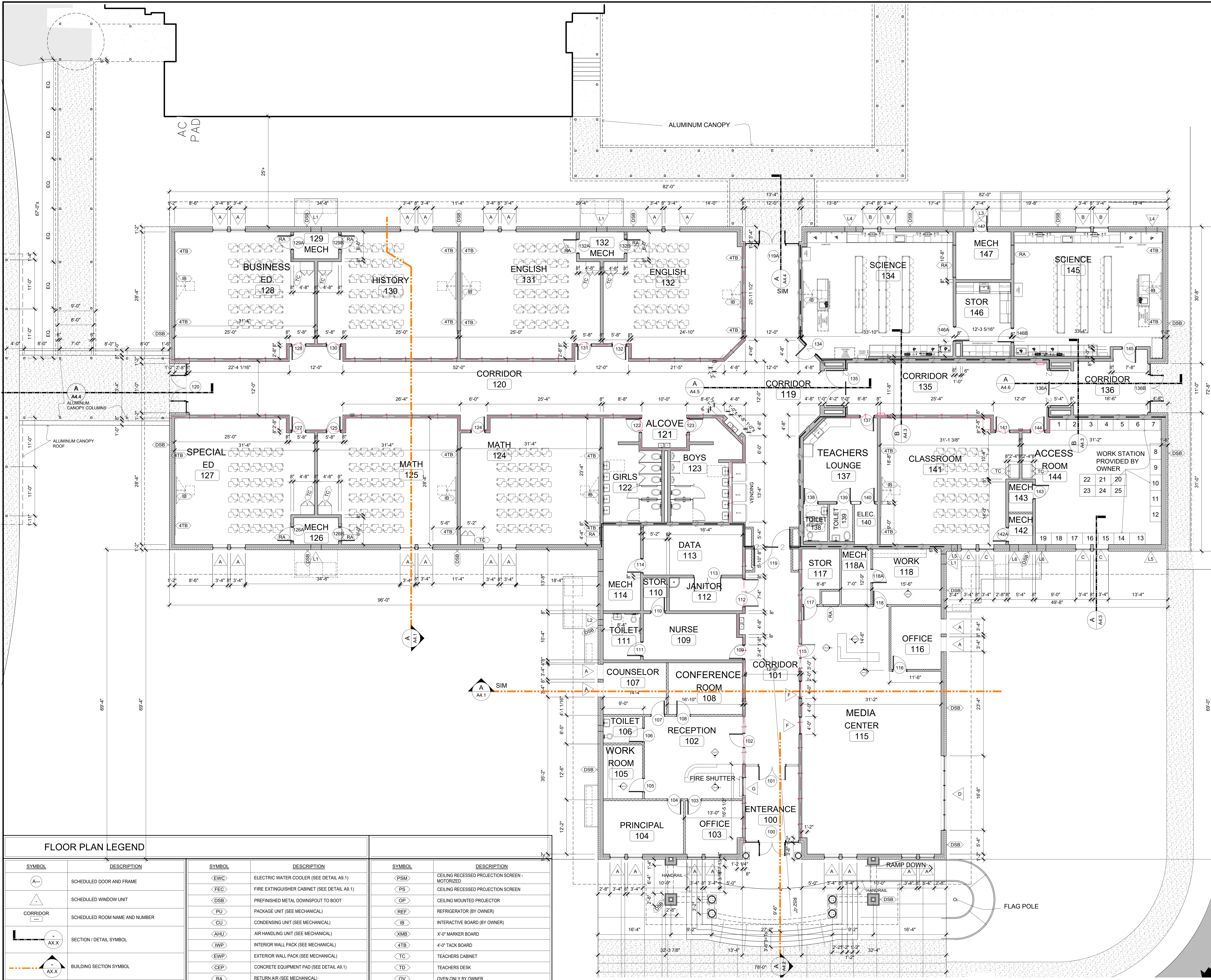
ADDITION TO
LINDEN HIGH SCHOOL
 FOR THE
LINDEN CITY BOARD OF EDUCATION
 LINDEN, ALABAMA

MCKEE & ASSOCIATES
 ARCHITECTS, INC.



SHEET TITLE: ARCHITECTURAL SITE AND PHASING PLAN
 MCKEE JOB #: 22-315
 DRAWN BY: RT
 DATE: 8/27/2024
 REVISED DATE:
 REVISED DATE:
 REVISED DATE:

SHEET NO.: **A1.0**



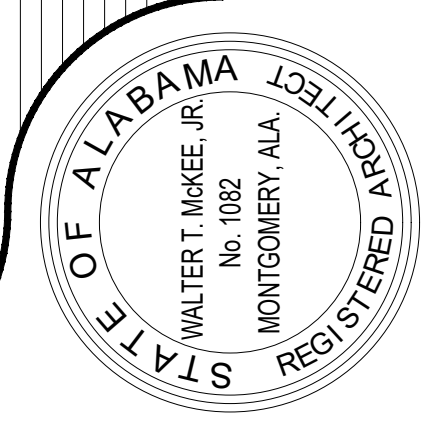
FLOOR PLAN LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(A)	SCHEDULED DOOR AND FRAME	(EWC)	ELECTRIC WATER COOLER (SEE DETAIL A9.1)
(W)	SCHEDULED WINDOW UNIT	(FEC)	FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)
CORRIDOR	SCHEDULED ROOM NAME AND NUMBER	(DSB)	PREFINISHED METAL DOWNSPOUT TO BOOT
(AXX)	SECTION / DETAIL SYMBOL	(PU)	PACKAGE UNIT (SEE MECHANICAL)
(AXX)	BUILDING SECTION SYMBOL	(CU)	CONDENSING UNIT (SEE MECHANICAL)
(AXX)	INTERIOR ELEVATION SYMBOL	(AHU)	AIR HANDLING UNIT (SEE MECHANICAL)
	3" METAL STUD PARTITION WITH GYPBD EA. SIDE EXTEND PARTITION TO STRUCTURE ABOVE	(IWP)	INTERIOR WALL PACK (SEE MECHANICAL)
		(EWP)	EXTERIOR WALL PACK (SEE MECHANICAL)
		(CEP)	CONCRETE EQUIPMENT PAD (SEE DETAIL A9.1)
		(RA)	RETURN AIR (SEE MECHANICAL)
		(WHR)	WALL MOUNTED METAL HANDRAIL - PAINT
		(HGR)	METAL HANDRAIL / GUARDRAIL - PAINT
		(GR)	METAL GUARDRAIL - PAINT
		(PSM)	CEILING RECESSED PROJECTION SCREEN - MOTORIZED
		(PS)	CEILING RECESSED PROJECTION SCREEN
		(OP)	CEILING MOUNTED PROJECTOR
		(REF)	REFRIGERATOR (BY OWNER)
		(IB)	INTERACTIVE BOARD (BY OWNER)
		(XMB)	X-0" MARKER BOARD
		(4TB)	4" TACK BOARD
		(TC)	TEACHERS CABINET
		(TD)	TEACHERS DESK
		(OV)	OVEN ONLY BY OWNER
		(REF)	REFRIGERATOR BY OWNER
		(WL)	WALL LOUVER - SEE SPEC SECTION 10201

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

BUILDING GROSS SQUARE FOOTAGE: 21,549 SQ. FT.

ADDITION TO
LINDEN HIGH SCHOOL
FOR THE
LINDEN CITY BOARD OF EDUCATION
LINDEN, ALABAMA

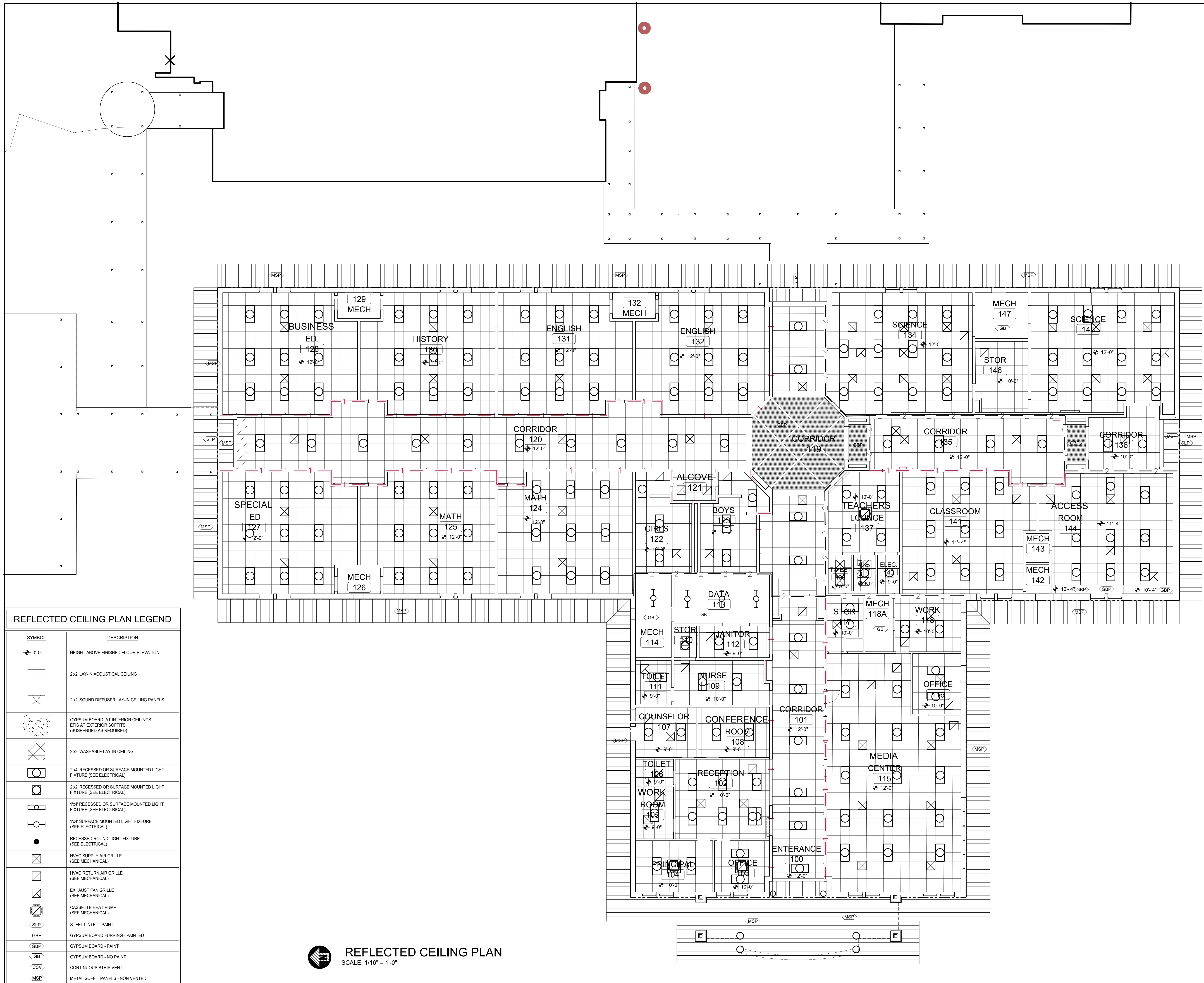
MCKEE & ASSOCIATES
ARCHITECTS, INC.



SHEET TITLE: FLOOR PLAN
MCKEE JOB #: 22-315
DRAWN BY: RT
DATE: 8/27/2024
REVISED DATE:
REVISED DATE:
REVISED DATE:

SHEET NO.: **A1.1**

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 - Wednesday, September 18, 2024 9:30:33 AM

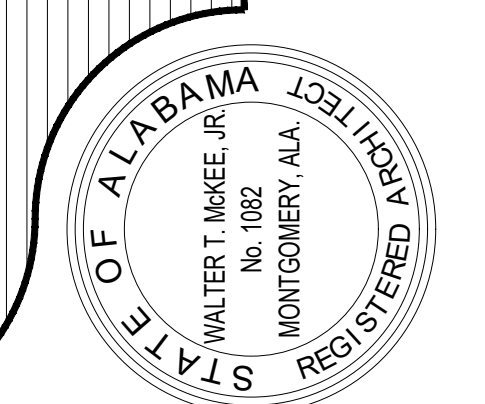


REFLECTED CEILING PLAN LEGEND

SYMBOL	DESCRIPTION
↑ 0'-0"	HEIGHT ABOVE FINISHED FLOOR ELEVATION
Grid	2'x2' LAY-IN ACOUSTICAL CEILING
Grid with X	2'x2' SOUND DIFFUSER LAY-IN CEILING PANELS
Grid with dots	GYPSUM BOARD - AT INTERIOR CEILINGS EFIS AT EXTERIOR SOFFITS (SUSPENDED AS REQUIRED)
Grid with X	2'x2' WASHABLE LAY-IN CEILING
Circle with X	2'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
Square with X	2'x2' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
Circle with dot	1'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
Circle with dot	1'x4' SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
Circle with dot	RECESSED ROUND LIGHT FIXTURE (SEE ELECTRICAL)
Square with X	HVAC SUPPLY AIR GRILLE (SEE MECHANICAL)
Square with X	HVAC RETURN AIR GRILLE (SEE MECHANICAL)
Square with X	EXHAUST FAN GRILLE (SEE MECHANICAL)
Square with X	CASSETTE HEAT PUMP (SEE MECHANICAL)
SLP	STEEL LINTEL - PAINT
GBP	GYPSUM BOARD FURRING - PAINTED
GB	GYPSUM BOARD - PAINT
GB	GYPSUM BOARD - NO PAINT
CSV	CONTINUOUS STRIP VENT
MSP	METAL SOFFIT PANELS - NON VENTED

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

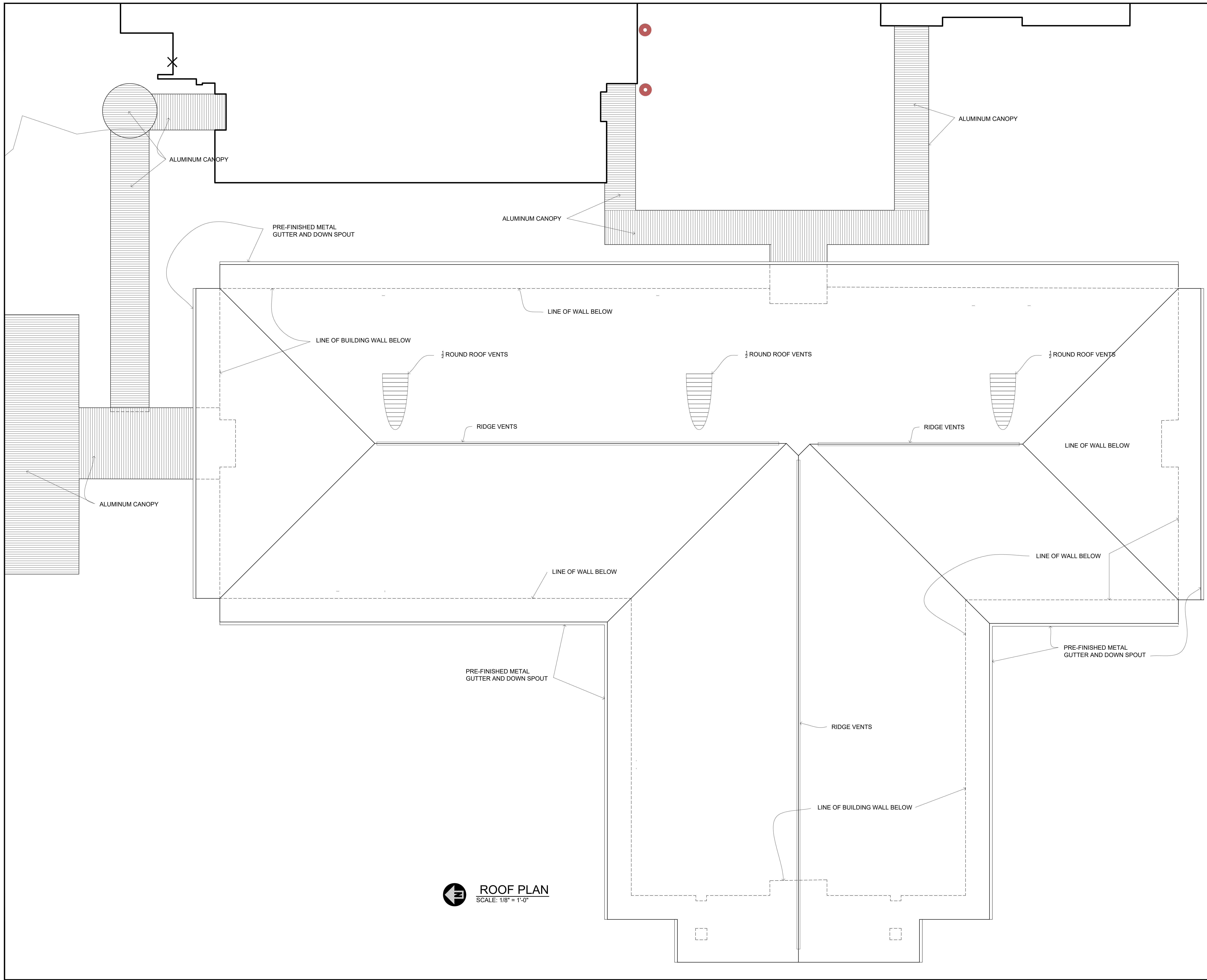
ADDITION TO
LINDEN HIGH SCHOOL
 FOR THE
LINDEN CITY BOARD OF EDUCATION
 LINDEN, ALABAMA



McKee & Associates
 ARCHITECTS, INC.
 631 SOUTH HULL STREET · MONTGOMERY, ALABAMA 36104 (334) 834-9933

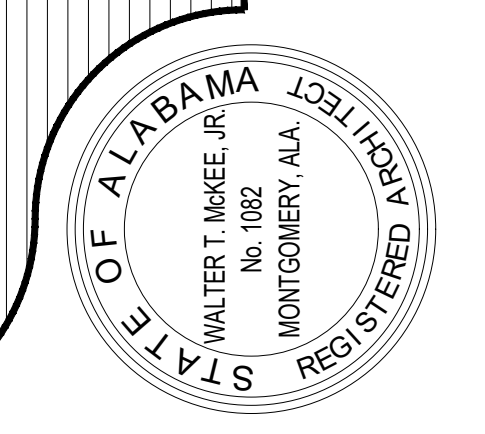
SHEET TITLE : REFLECTED CEILING PLAN
 MCKEE JOB # : 22-315
 DRAWN BY : RT
 DATE : 8/27/2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :
 SHEET NO. : **A1.3**

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- Wednesday, September 18, 2024 9:35:25 AM



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

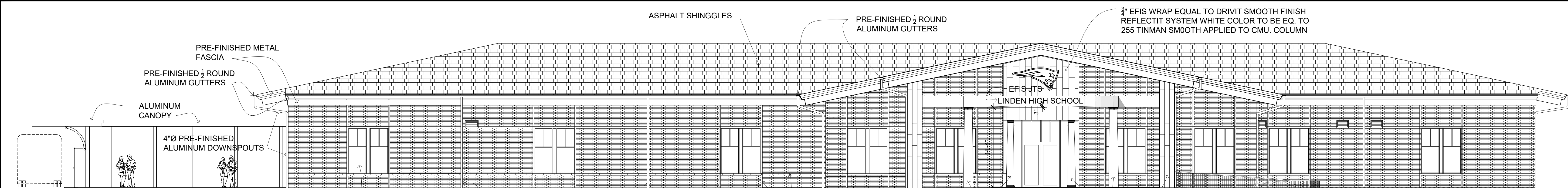
ADDITION TO
LINDEN HIGH SCHOOL
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LINDEN CITY BOARD OF EDUCATION
LINDEN, ALABAMA



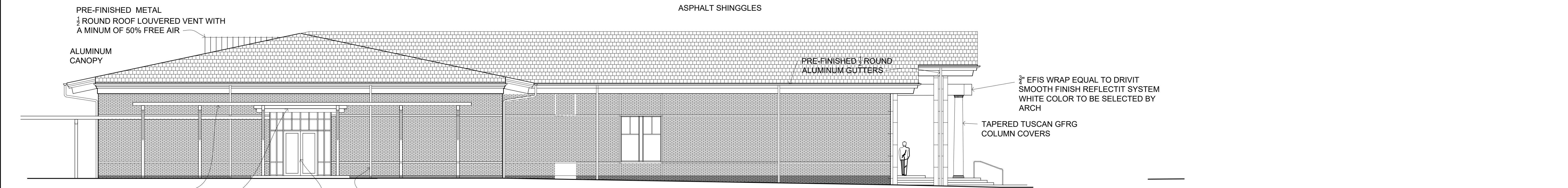
MCKEE & ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET · MONTGOMERY, ALABAMA 36104 (334) 834-9933

SHEET TITLE : ROOF PLAN
MCKEE JOB # : 22-315
DRAWN BY : RT
DATE : 8/27/2024
REVISED DATE :
REVISED DATE :
REVISED DATE :

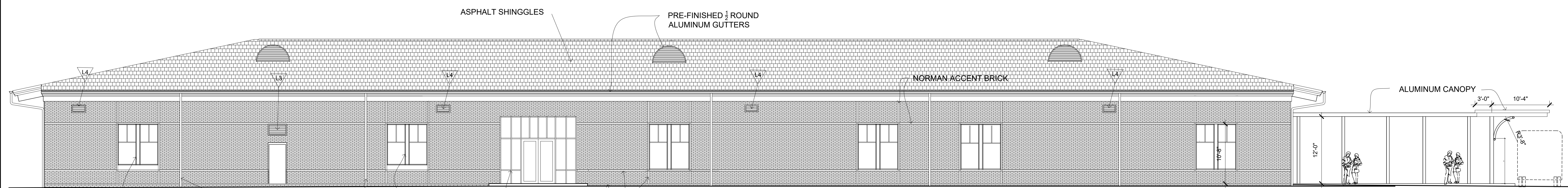
SHEET NO. : **A1.4**



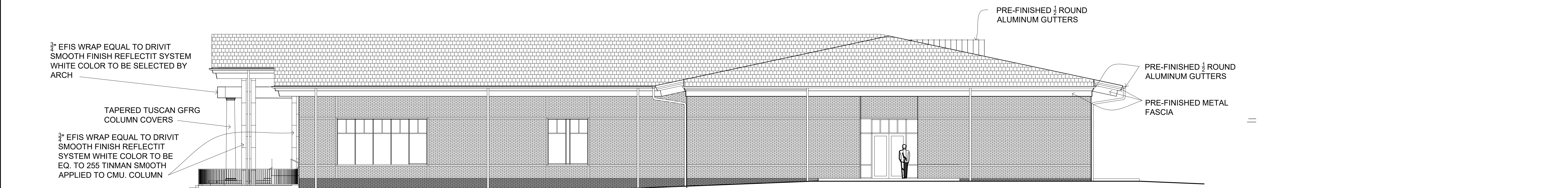
WEST ELEVATION
SCALE: 1/8"=1'-0"



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



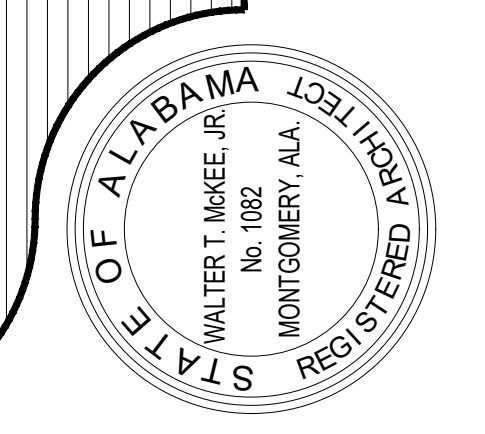
EAST ELEVATION
SCALE: 1/8"=1'-0"



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

ADDITION TO
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SHEET TITLE : EXTERIOR ELEVATIONS

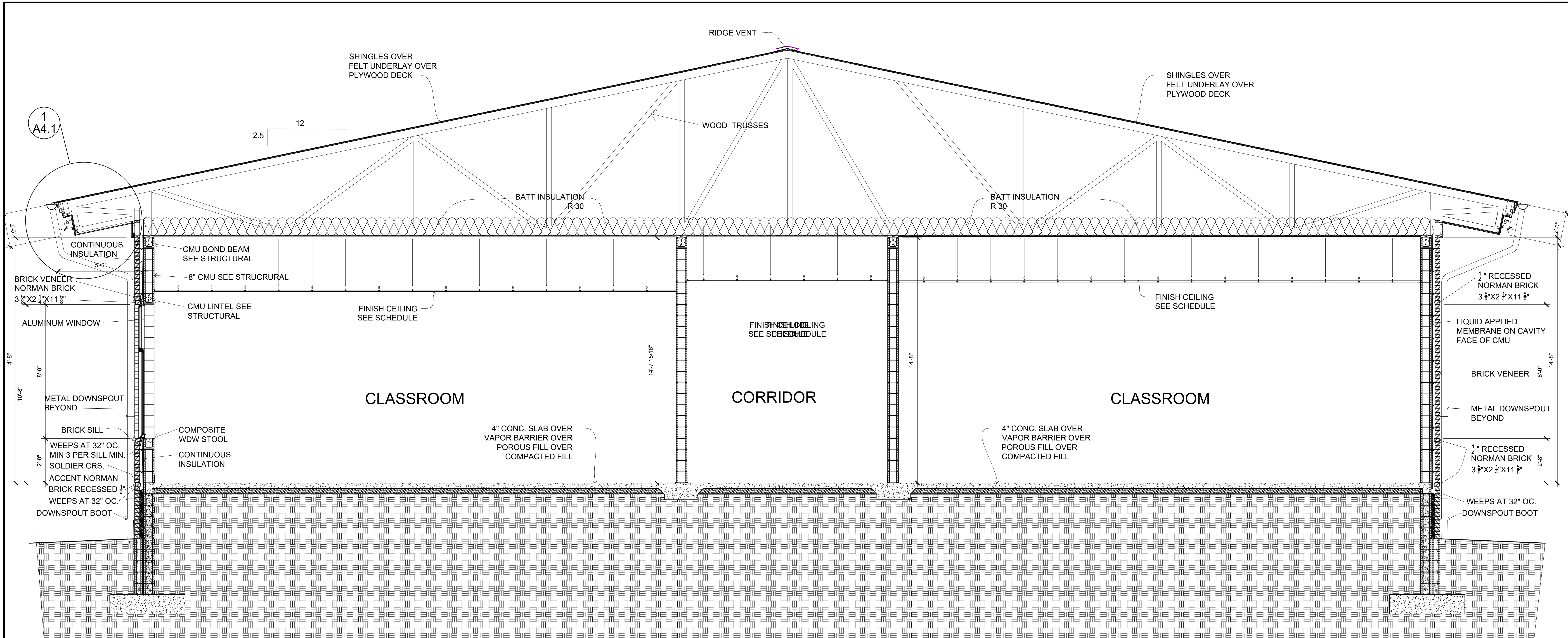
 MCKEE JOB # : 22-315

 DRAWN BY : RT
 DATE : 8/27/2024

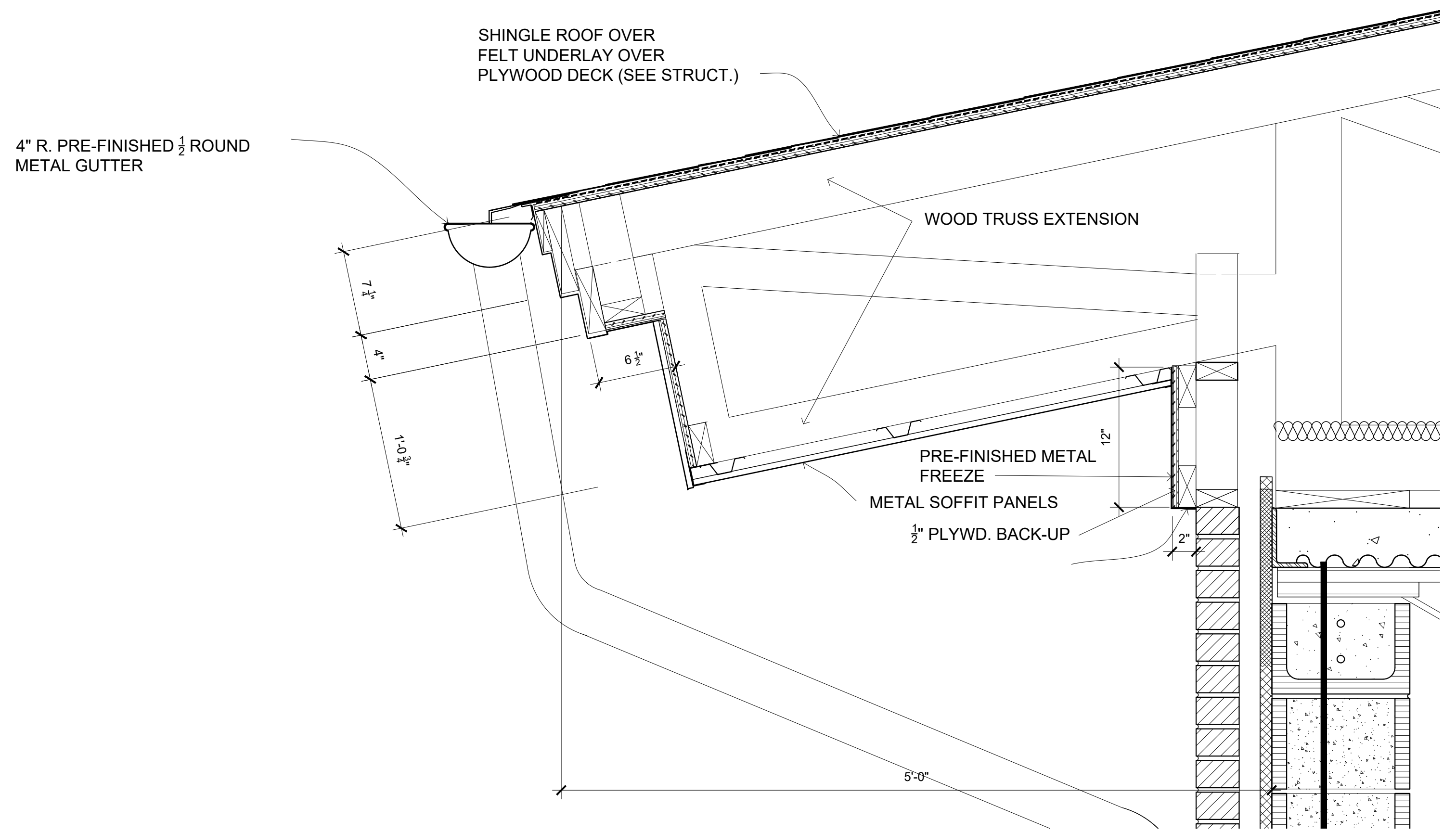
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

SHEET NO. : **A3.1**

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 - Wednesday, September 18, 2024 9:37:33 AM

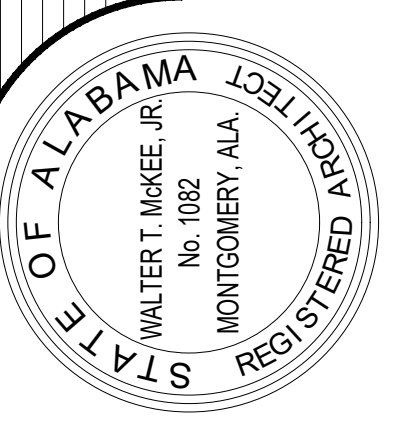


BUILDING SECTION
 SCALE: 3/8" = 1'-0"



FASCIA SOFFIT DETAILS
 SCALE: 1-1/2" = 1'-0"

ADDITION TO
LINDEN HIGH SCHOOL
 FOR THE
LINDEN CITY BOARD OF EDUCATION
 LINDEN, ALABAMA

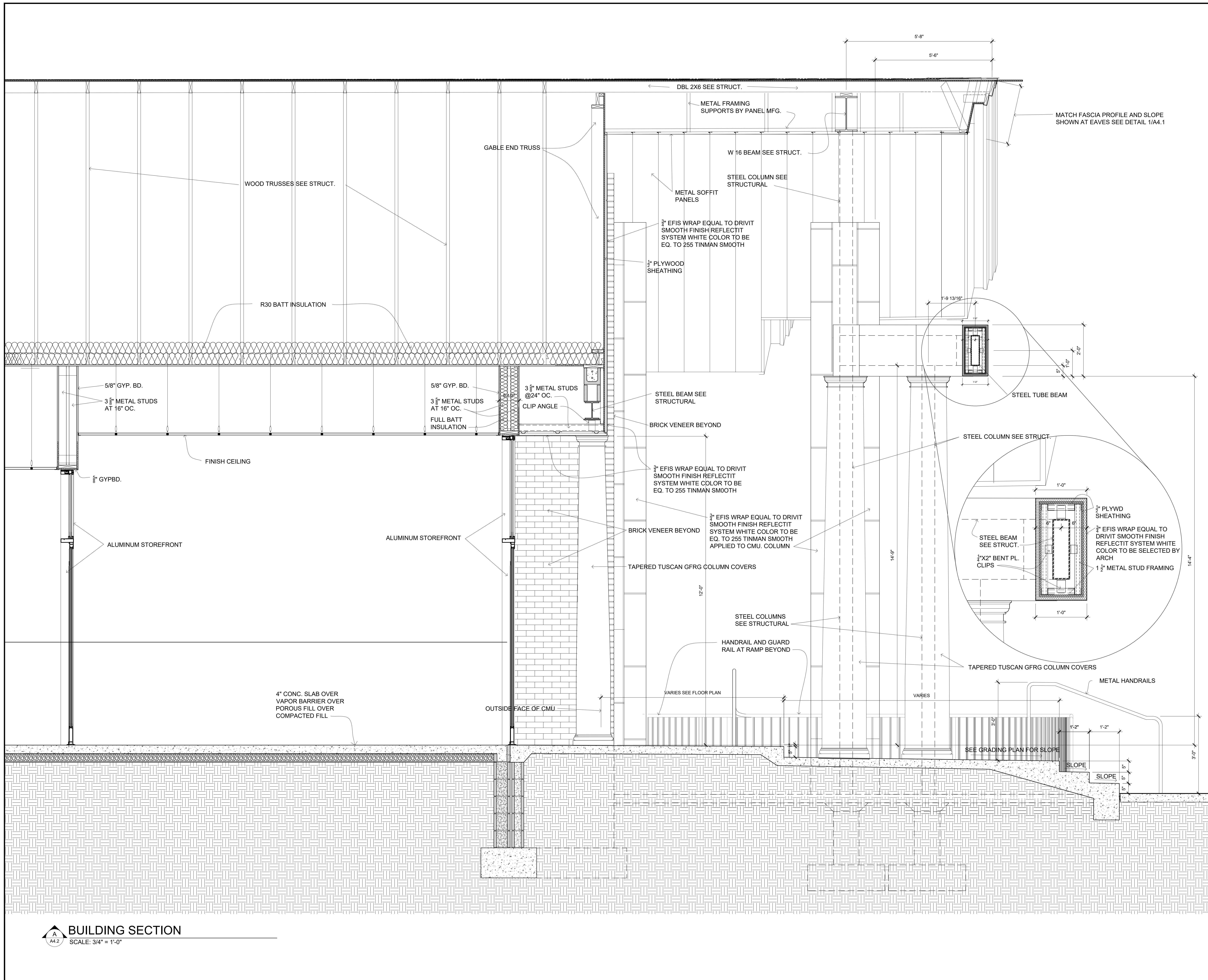


MCKEE & ASSOCIATES
 ARCHITECTS, INC.

SHEET TITLE : BUILDING SECTIONS
 MCKEE JOB # : 22-315
 DRAWN BY : RT
 DATE : 8/27/2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

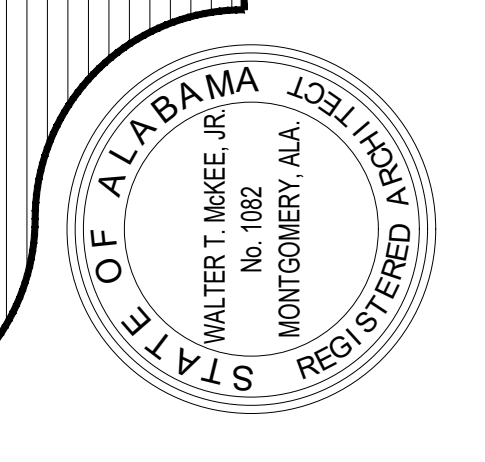
SHEET NO. : **A4.1**

- L:\Documents\21411_Linden High School\22-313\working Drawings\Use 1.rvt - The User Review modifications to 1/24/24 Linden High School 11.24.24.dwg
 - Wednesday, September 18, 2024 9:41:09 AM



ADDITION TO
LINDEN HIGH SCHOOL
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 631 SOUTH HULL STREET - MONTGOMERY, ALABAMA 36104 (334) 834-9933



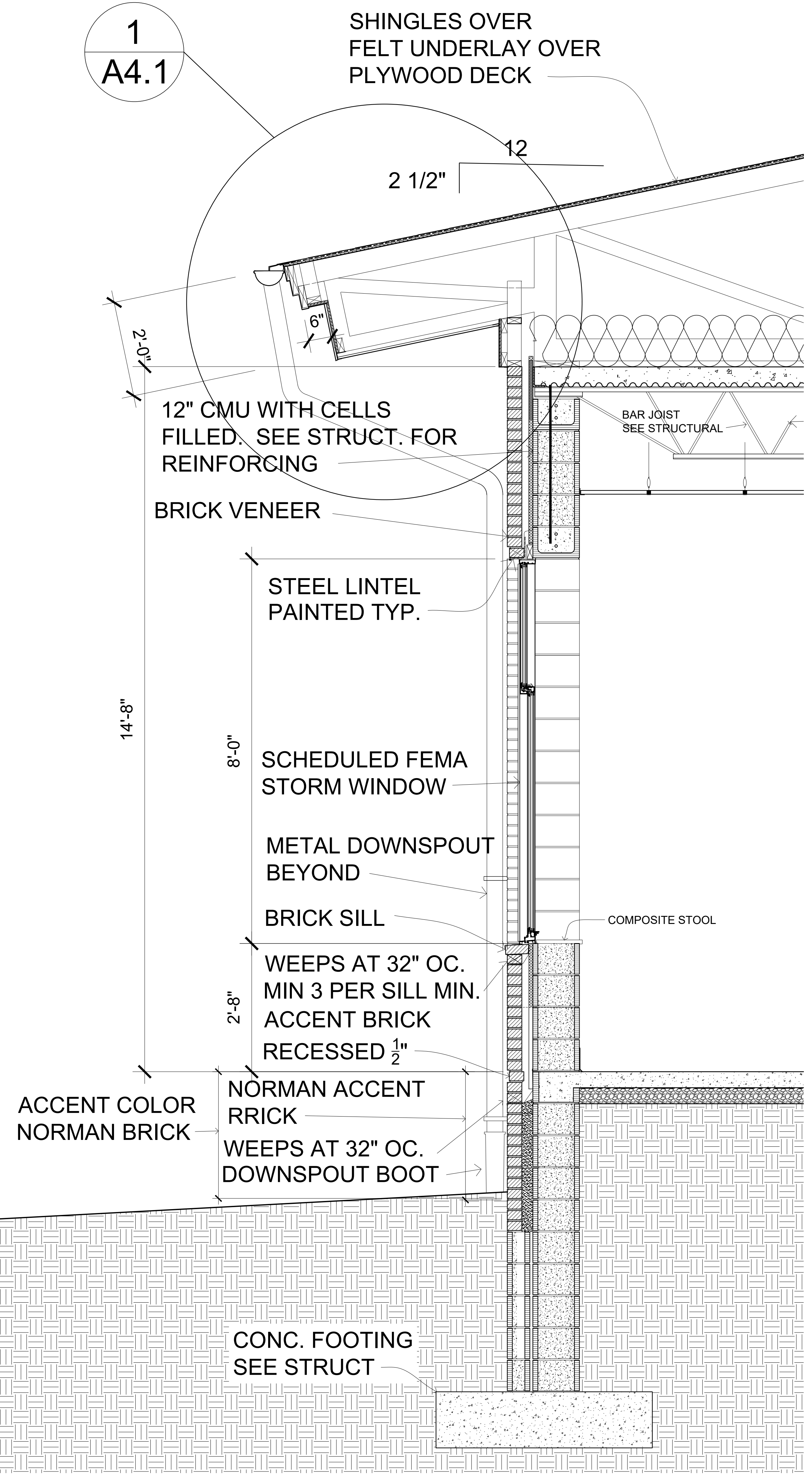
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 MCKEE JOB # : 22-315
 DRAWN BY : RT
 DATE : 8/27/2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

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

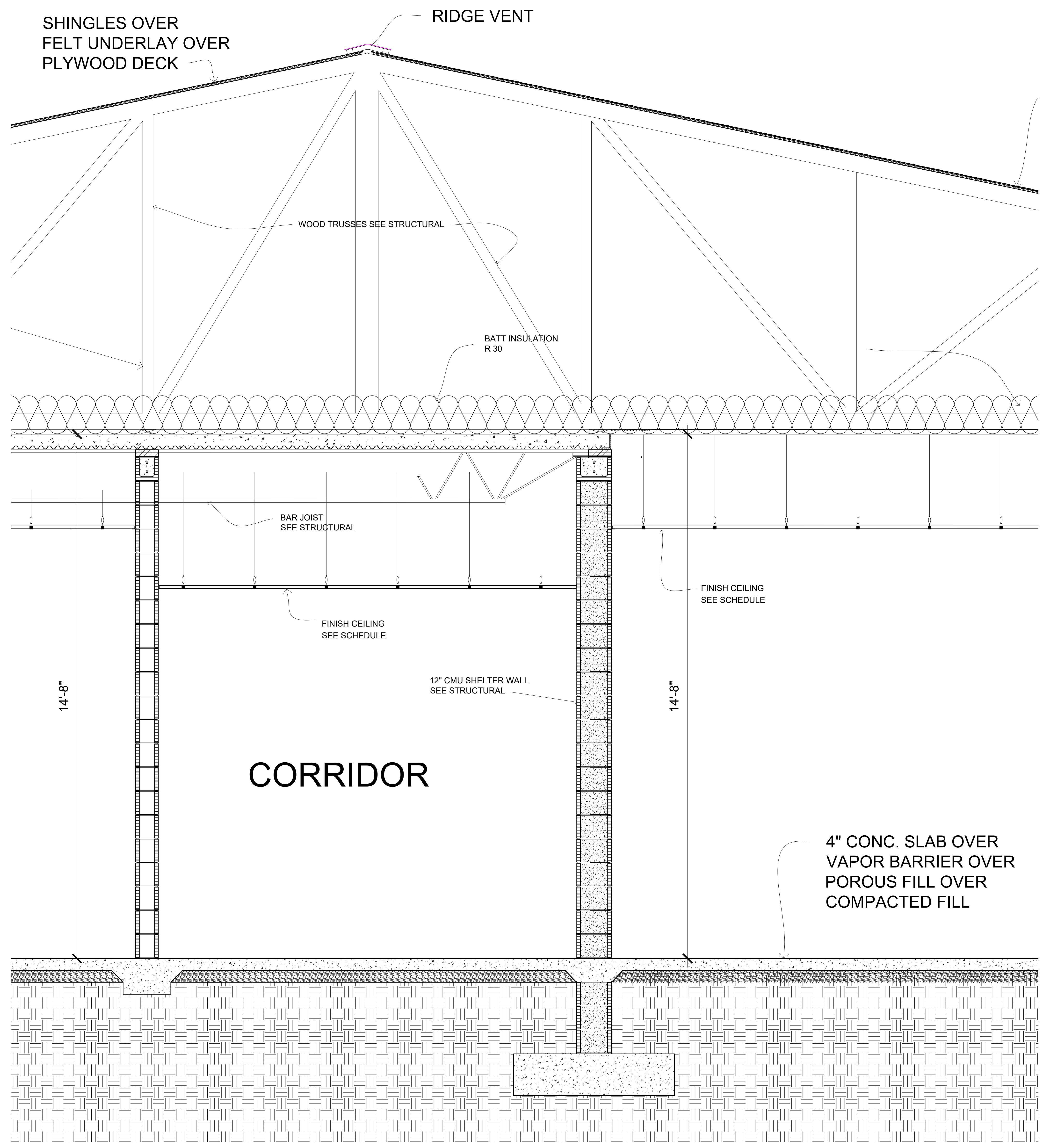
SHEET NO. : **A4.2**

REVISED 9.12.24

1
A4.1



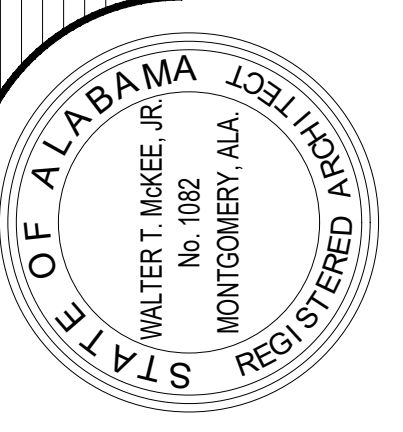
WALL SECTION thru STORM SHELTER
SCALE: 3/4" = 1'-0"



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

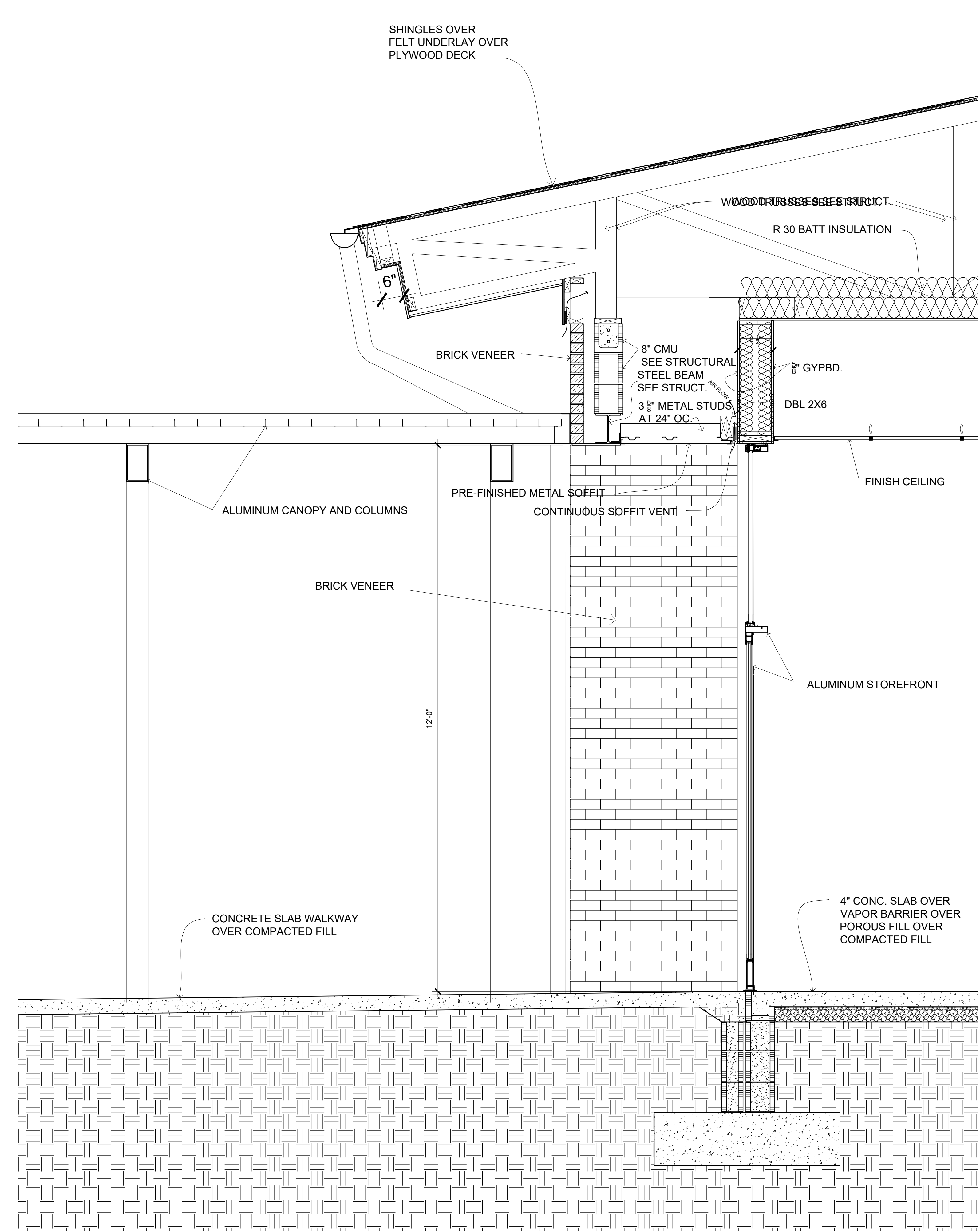
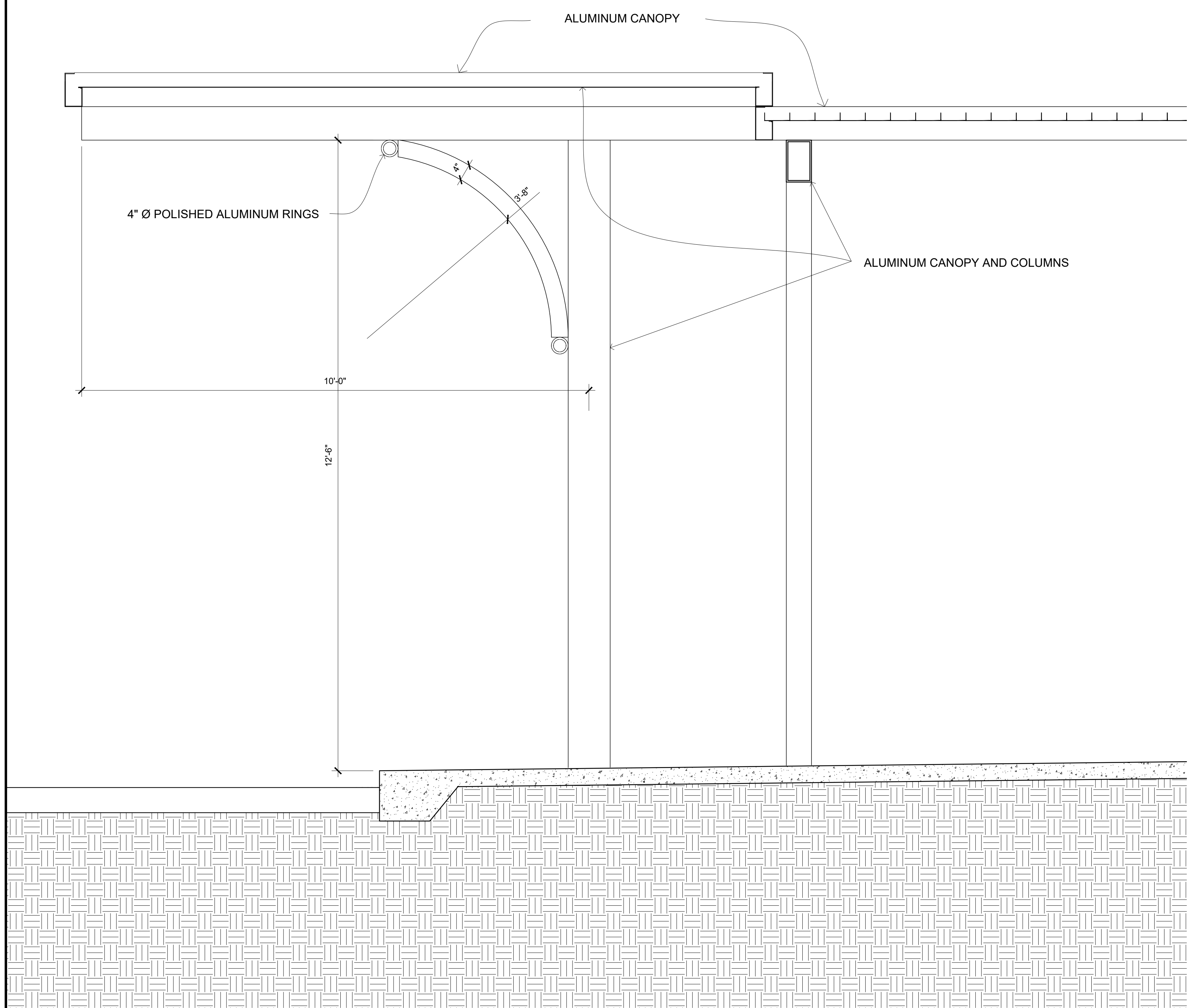
ADDITION TO
LINDEN HIGH SCHOOL
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LINDEN, ALABAMA

MCKEE & ASSOCIATES
ARCHITECTS, INC.



SHEET TITLE : WALL SECTIONS
MCKEE JOB # : 22-315
DRAWN BY : RT
DATE : 8/27/2024
REVISED DATE :
REVISED DATE :
REVISED DATE :

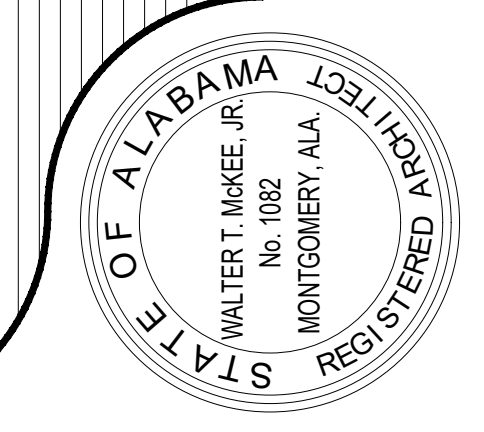
SHEET NO. : **A4.3**



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

ADDITION TO
LINDEN HIGH SCHOOL
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LINDEN CITY BOARD OF EDUCATION
LINDEN, ALABAMA

MCKEE & ASSOCIATES
ARCHITECTS, INC.



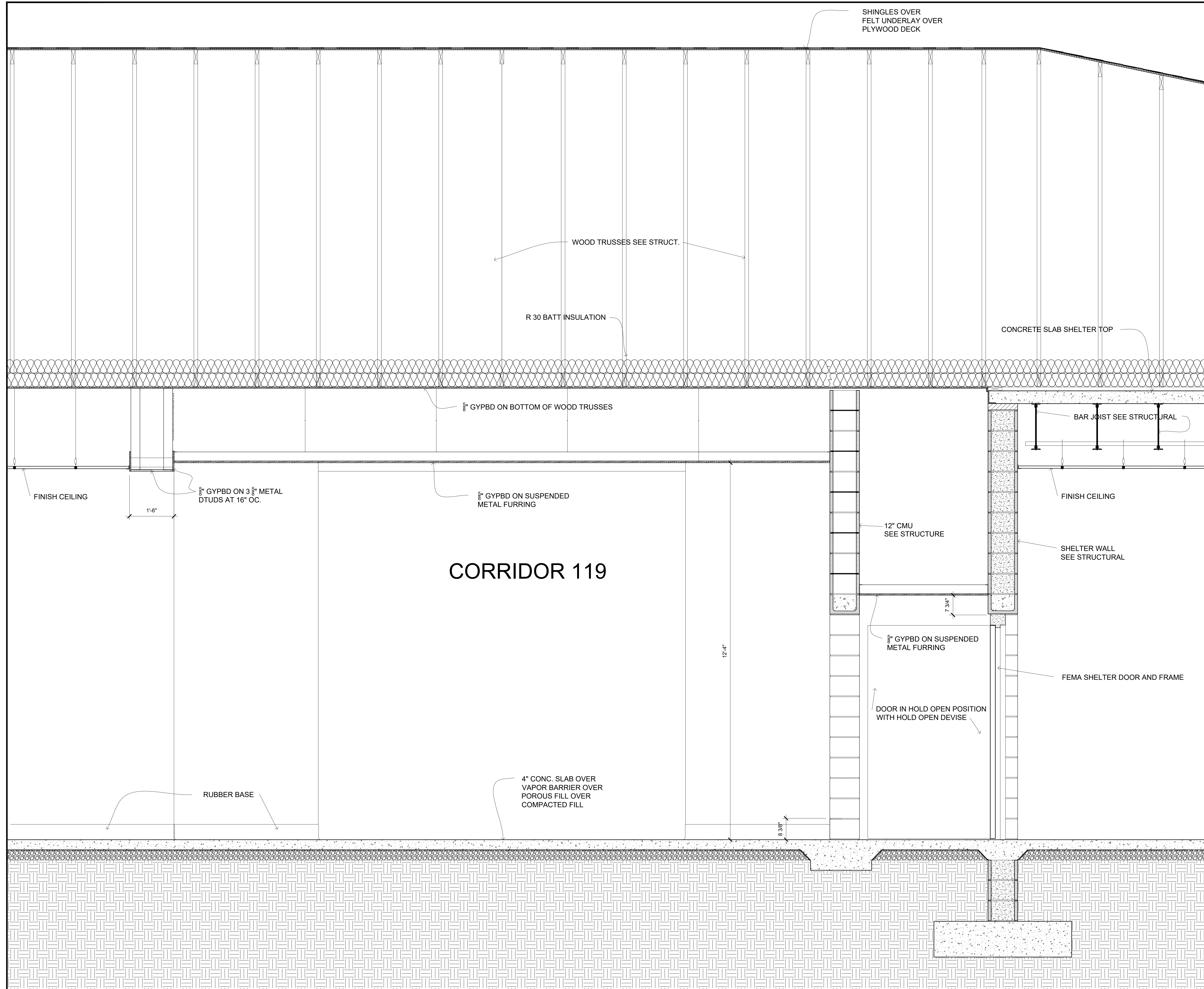
SHEET TITLE : WALL SECTIONS

MCKEE JOB # : 22-315

DRAWN BY : RT
DATE : 8/27/2024

REVISED DATE :
REVISED DATE :
REVISED DATE :

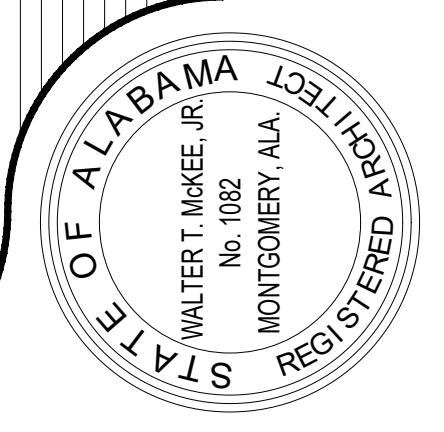
SHEET NO. : **A4.4**



CORRIDOR 119

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

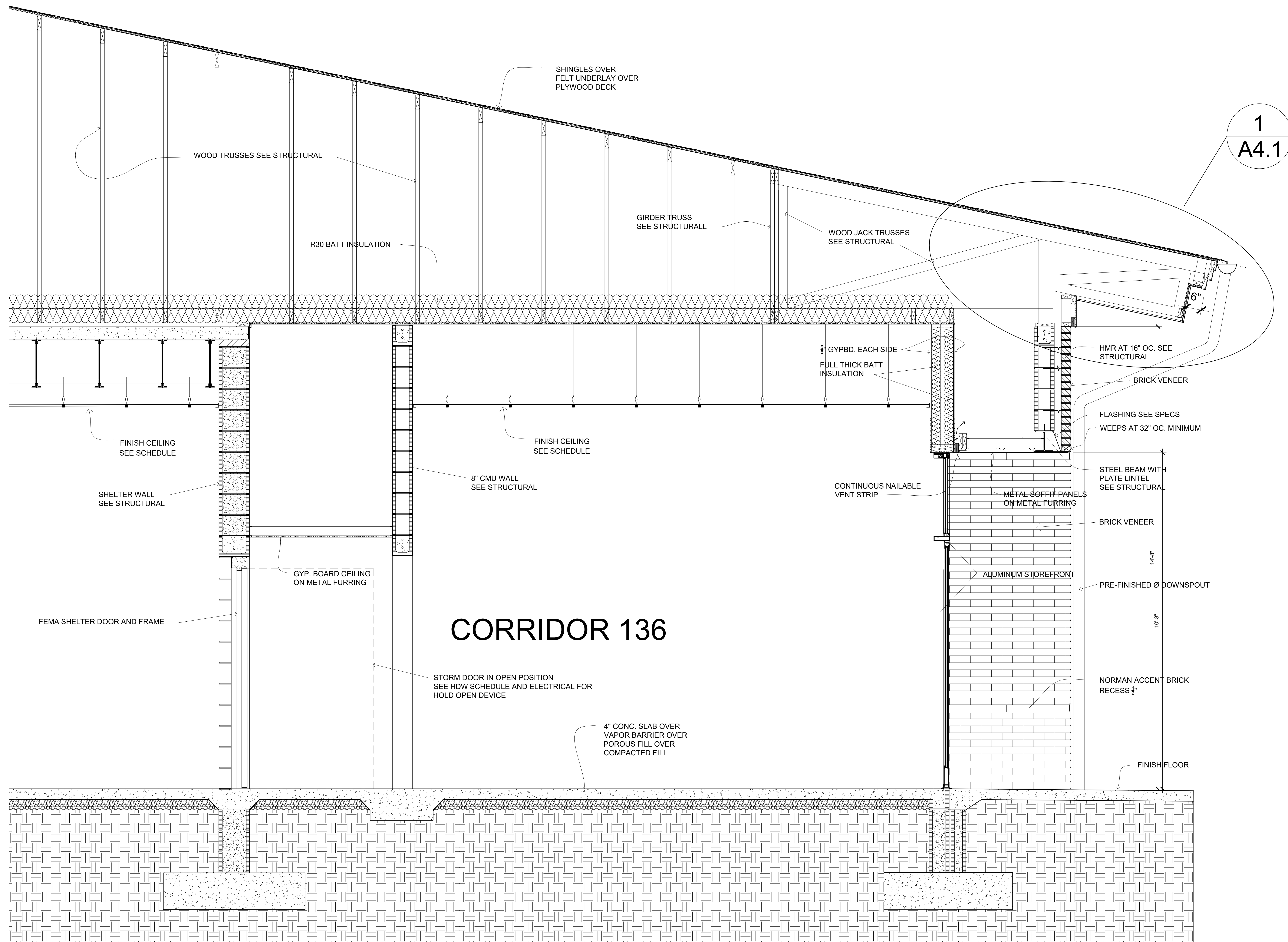
ADDITION TO
LINDEN HIGH SCHOOL
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LINDEN CITY BOARD OF EDUCATION
 LINDEN, ALABAMA



MCKEE & ASSOCIATES
 ARCHITECTS, INC.

SHEET TITLE : WALL SECTIONS
 MCKEE JOB # : 22-315
 DRAWN BY : RT
 DATE : 8/27/2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

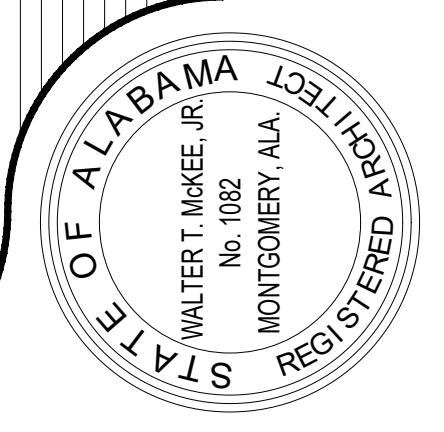
SHEET NO. : **A4.5**



CORRIDOR 136

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

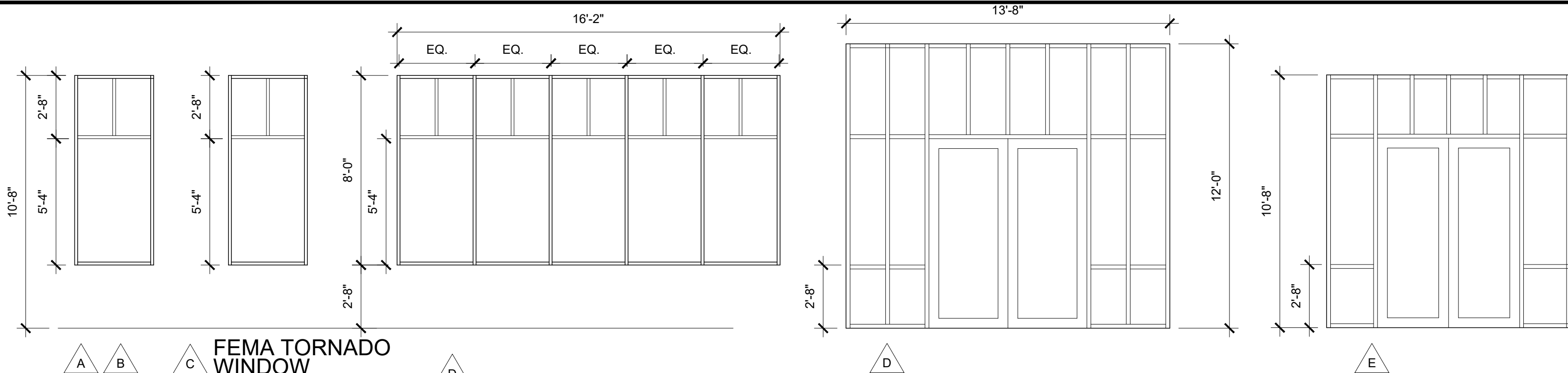
ADDITION TO
LINDEN HIGH SCHOOL
 FOR THE
LINDEN CITY BOARD OF EDUCATION
 LINDEN, ALABAMA



MCKEE & ASSOCIATES
 ARCHITECTS, INC.

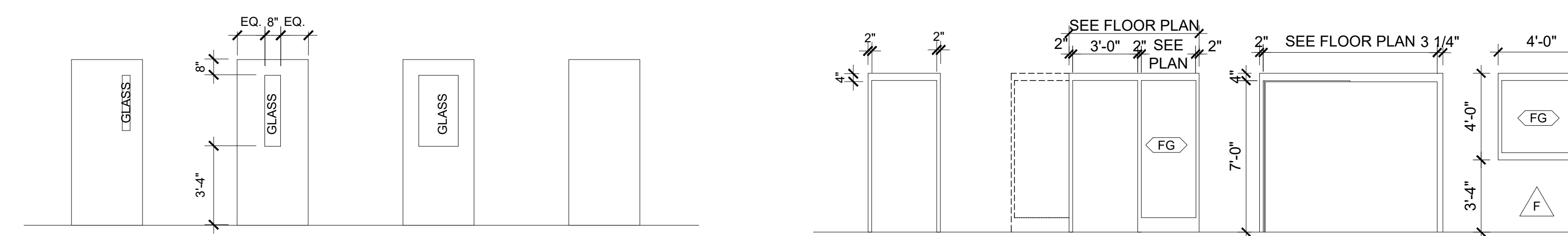
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 MCKEE JOB # : 22-315
 DRAWN BY : RT
 DATE : 8/27/2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

SHEET NO. : **A4.6**



WINDOW AND STOREFRONT SCHEDULE

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



DOOR TYPES

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

LOUVER TYPES

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

HM FRAME TYPES

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

GLAZING SCHEDULE

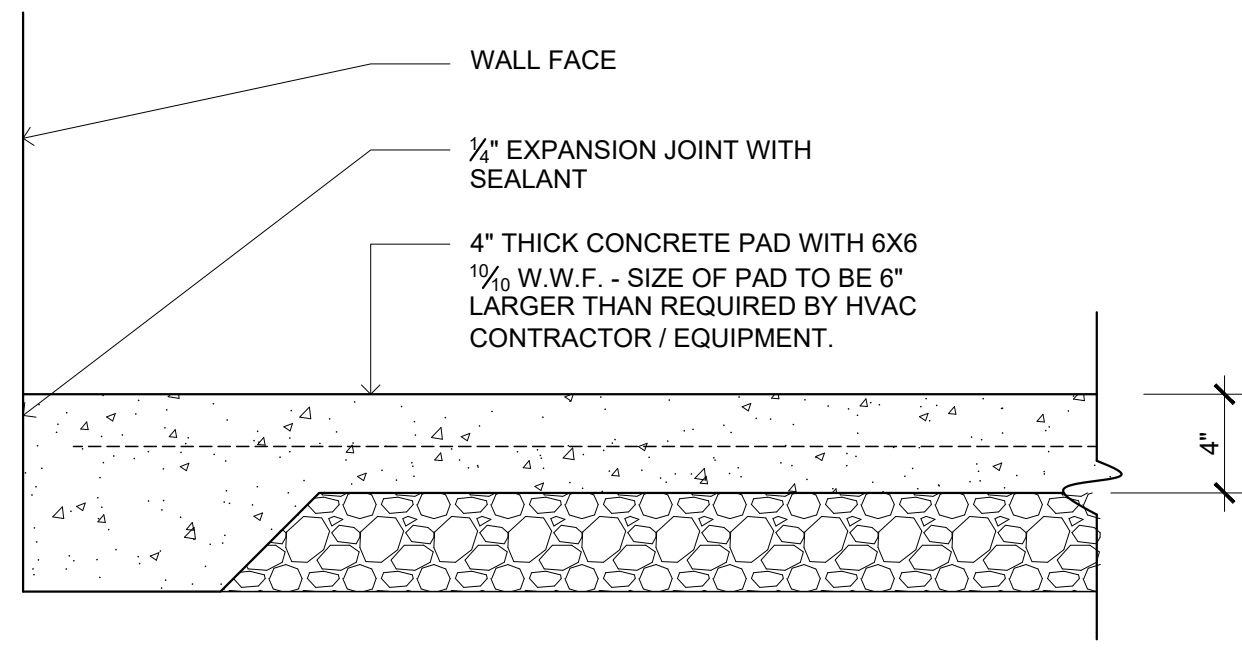
SYMBOL	DESCRIPTION
CT	CLEAR TEMPERED
CA	CLEAR ANNEALED
IG	INSULATING GLASS
TT	TINTED TEMPERED
FG	FIRE GLASS

ROOM FINISH SCHEDULE

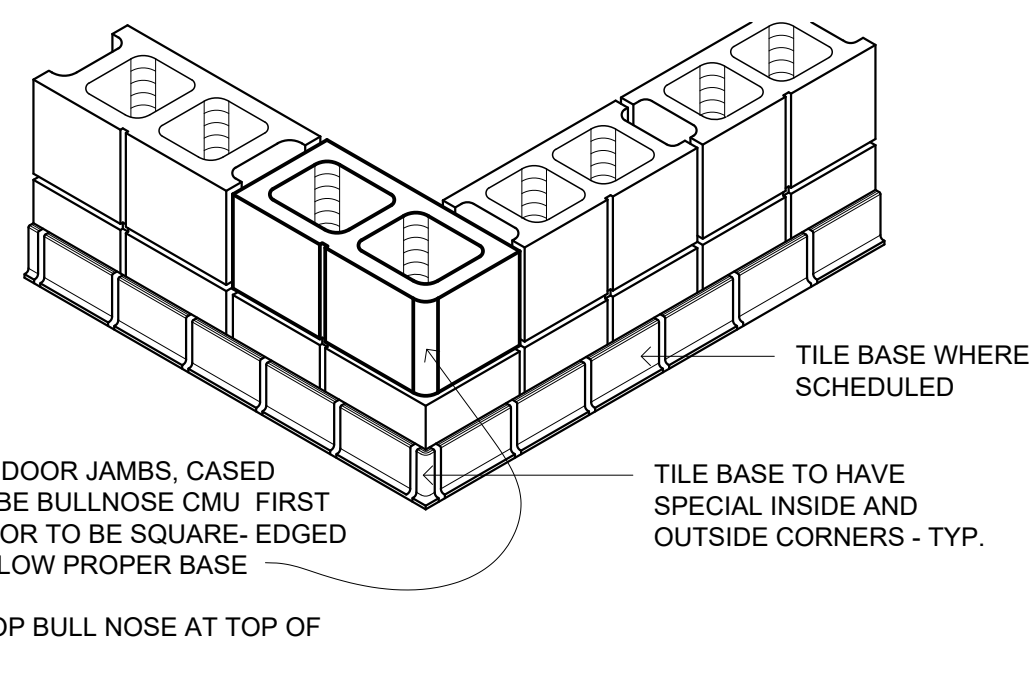
ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING		WAINS.	HEIGHT	REMARKS
				NORTH	SOUTH	EAST	WEST	TYPE	HEIGHT			
100	ENTRANCE	LVT	RB	CMUP	CMUP	-	-	SEE RCP PLAN	---	---		
101	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
102	RECEPTION	LVT	RB	GBP	GBP	GBP	GBP	SEE RCP PLAN	---	---		
103	BOOKKEEPER	LVT	RB	GBP	GBP	GBP	GBP	SEE RCP PLAN	---	---		
104	PRINCIPAL	LVT	RB	CMUP	GBP	GBP	CMUP	SEE RCP PLAN	---	---		
105	WORK	LVT	RB	CMUP	GBP	GBP	GBP	SEE RCP PLAN	---	---		
106	TOILET	PT	PT	CMUP	GBP	GBP	GBP	SEE RCP PLAN	---	---		
107	COUNSELOR	LVT	RB	CMUP	GBP	GBP	GBP	SEE RCP PLAN	---	---		
108	CONFERENCE	LVT	RB	GBP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
109	NURSE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
110	STOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
111	TOILET	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
112	JANITOR	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
113	DATA	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
114	MECHANICAL	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
115	MEDIA CENTER	LVT	RB	CMUP	CMUP	GBP	CMUP	SEE RCP PLAN	---	---		
116	OFFICE	LVT	RB	GBP	CMUP	GBP	GBP	SEE RCP PLAN	---	---		
117	STOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
118	WORK	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
118A	MECHANICAL	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
119	OFFICE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
120	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
121	ALCOVE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
122	GIRLS	PT	PT	PT	PT	PT	PT	SEE RCP PLAN	---	---		
123	BOYS	PT	PT	PT	PT	PT	PT	SEE RCP PLAN	---	---		
124	MATH	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
125	MATH	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
126	MECHANICAL	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
127	SPECIAL ED.	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
128	BUSINESS ED.	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
129	MECHANICAL	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
130	HISTORY	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
131	ENGLISH	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
132	MECHANICAL	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
133	ENGLISH	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
134	SCIENCE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
135	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
136	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
137	TEACHERS LOUNGE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
138	TOILET	PT	PT	PT	PT	PT	PT	SEE RCP PLAN	---	---		
139	TOILET	PT	PT	PT	PT	PT	PT	SEE RCP PLAN	---	---		
140	ELEC.	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
141	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
142	MECHANICAL	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
143	MECHANICAL	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		
144	ACCESS	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	---	---		

DOOR SCHEDULE

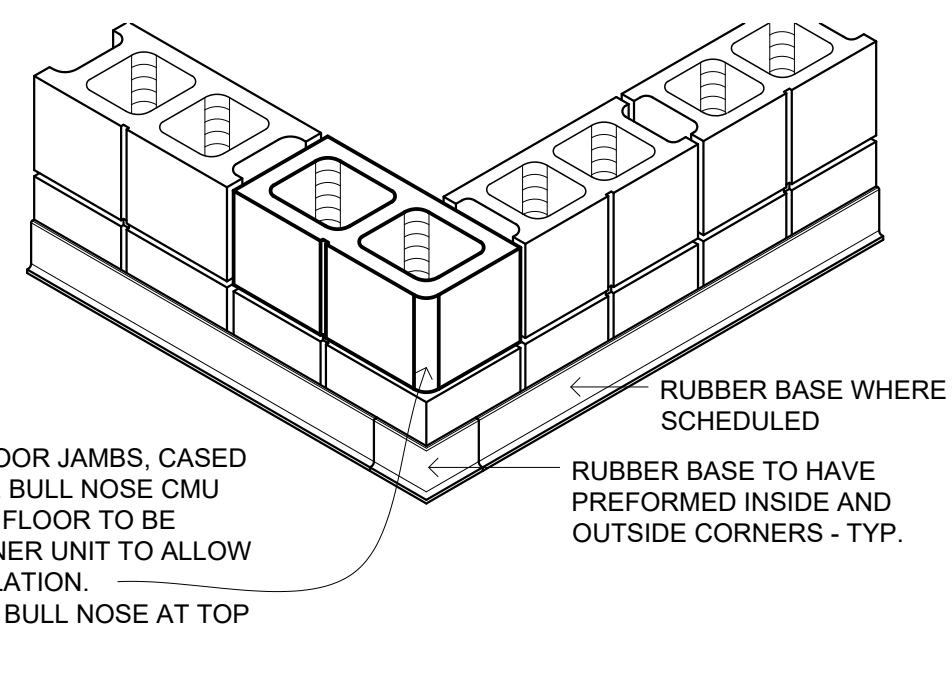
DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	DETAILS		SIGNAGE	REMARKS
										HEAD	JAMB		
100	PR 3'-4"	8'-0"	-	STOREFRONT	--	FACTORY	SF'D"	FACTORY	--	3/A10.1sim	3/A10.1	--	
101	PR 3'-0"	8'-0"	-	STOREFRONT	--	FACTORY	SF'D"	FACTORY	--	3/A10.1sim	3/A10.1	--	
102	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	HM2	STAIN	HM2	PAINT	--	7/A10.1sim	7/A10.1	RECEPTION	--
103	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	--	8/A10.1sim	8/A10.1	OFFICE	--
104	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	8/A10.1sim	8/A10.1	PRINCIPAL	--
105	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	--	8/A10.1sim	8/A10.1	WORK	--
106	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	8/A10.1sim	8/A10.1	TOILET	--
107	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	8/A10.1sim	8/A10.1	COUNCILOR	--
108	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	8/A10.1sim	8/A10.1	CONFERENCE	--
109	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	NURSE	--
110	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	--	--
111	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	--	--
112	PR3'-0"	9'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	JANITOR	FLUSH BOLT INACTIVE LEAF
113	PR3'-0"	9'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	DATA	FLUSH BOLT INACTIVE LEAF
114	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	MECHANICAL	--
115	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM2	PAINT	20 MINUTE	7/A10.1sim	7/A10.1	MEDIA CENTER	--
116	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	--	8/A10.1sim	8/A10.1	LIBRARIAN	--
117	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	8/A10.1sim	8/A10.1	STORAGE	--
118	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	--	8/A10.1sim	8/A10.1	WORK	--
118A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	8/A10.1sim	8/A10.1	MECHANICAL	--
119	PR 4'-0"	8'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM3	PAINT	90 MINUTE	7/A10.1sim	7/A10.1	DBL EGRESS	--
119A	PR 3'-4"	8'-0"	--	STOREFRONT	--	FACTORY	SF'D"	FACTORY	--	--	--	--	PROVIDE REMOVABLE ASTRICAL
120	PR3'-4"	8'-0"	--	STOREFRONT	--	FACTORY	SF'D"	FACTORY	--	--	--	--	
121	NOT USED												
122	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20	7/A10.1sim	7/A10.1	GIRLS	
123	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20	7/A10.1sim	7/A10.1	BOYS	
124	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	20	7/A10.1sim	7/A10.1	MATH	
125	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	20 MINUTE	7/A10.1sim	7/A10.1	MATH	
126A	3'-0"	5'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	MECHANICAL	
126B	3'-0"	5'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	MECHANICAL	
127	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	20	7/A10.1sim	7/A10.1	SPECIAL ED.	
128	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	20	7/A10.1sim	7/A10.1	BUSINESS ED.	
129A	3'-0"	5'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	MECHANICAL	
129B	3'-0"	5'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	MECHANICAL	
130	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	HISTORY	
131	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	ENGLISH	
132A	3'-0"	5'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	MECHANICAL	
132B	3'-0"	5'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	MECHANICAL	
133	NOT USED												
134	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	SCIENCE	
135	PR 4'-0"	7'-0"	1 3/4"	FEMA TORNADO DOORS	D	PAINT	HM1	PAINT	90 MINUTES	15/A10.1sim	15/A10.1		
136A	PR 4'-0"	7'-0"	1 3/4"	FEMA TORNADO DOORS	D	PAINT	HM1	PAINT	90 MINUTES	15/A10.1sim	15/A10.1		
136	PR3'-4"	8'-0"	--	STOREFRONT	--	FACTORY	SF'D"	FACTORY	--	7/A10.1sim	7/A10.1	--	
137	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	20 MINUTES	7/A10.1sim	7/A10.1	TEACHERS LOUNGE	
138	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	TOILET	
139	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	TOILET	
140	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	ELECTRICAL	
141	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	20 MINUTES	7/A10.1sim	7/A10.1	SCIENCE	
142	3'-0"	5'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	MECHANICAL	
143	3'-0"	5'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	--	7/A10.1sim	7/A10.1	MECHANICAL	
144	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM						



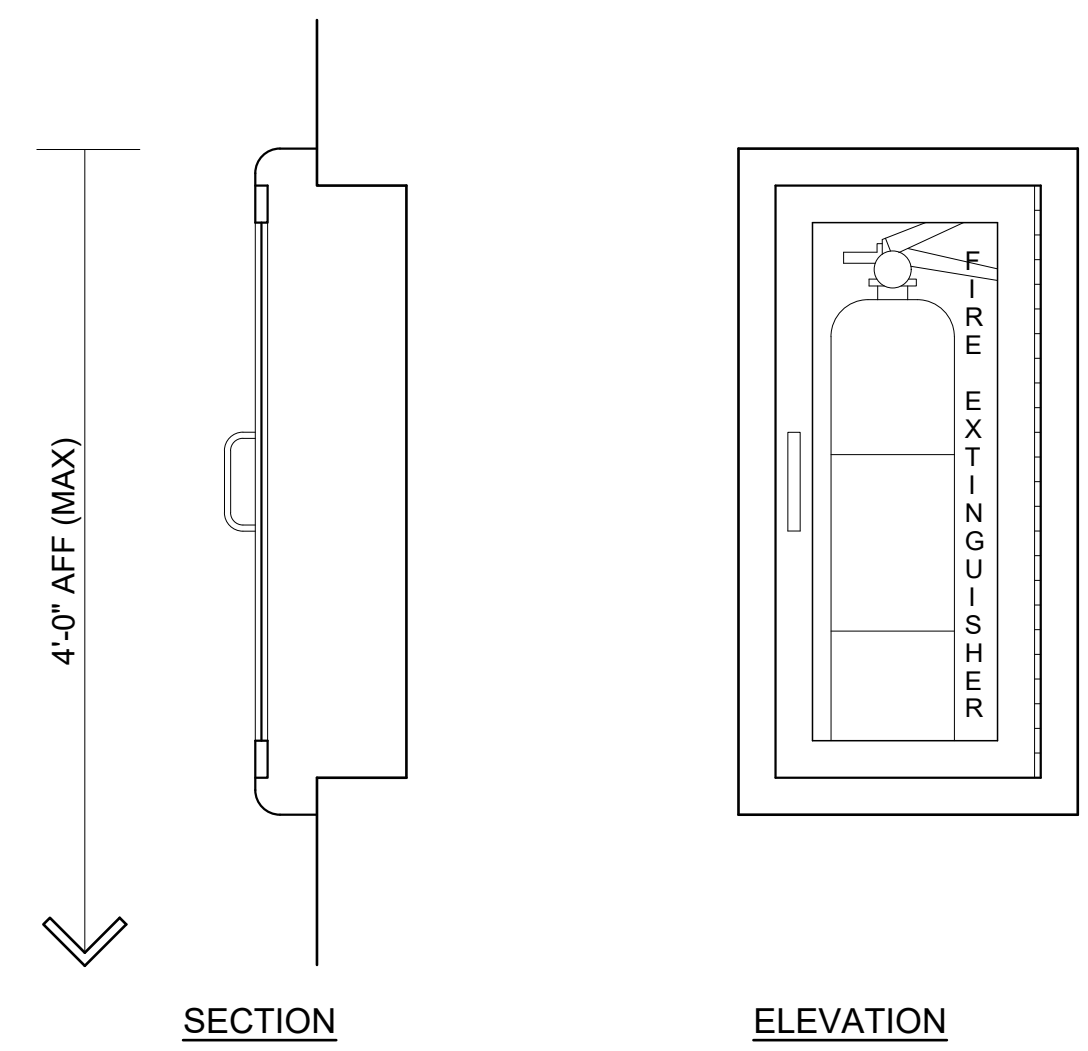
1 HVAC EQUIPMENT PAD (CEP)
 SCALE: 1 1/2" = 1'-0"



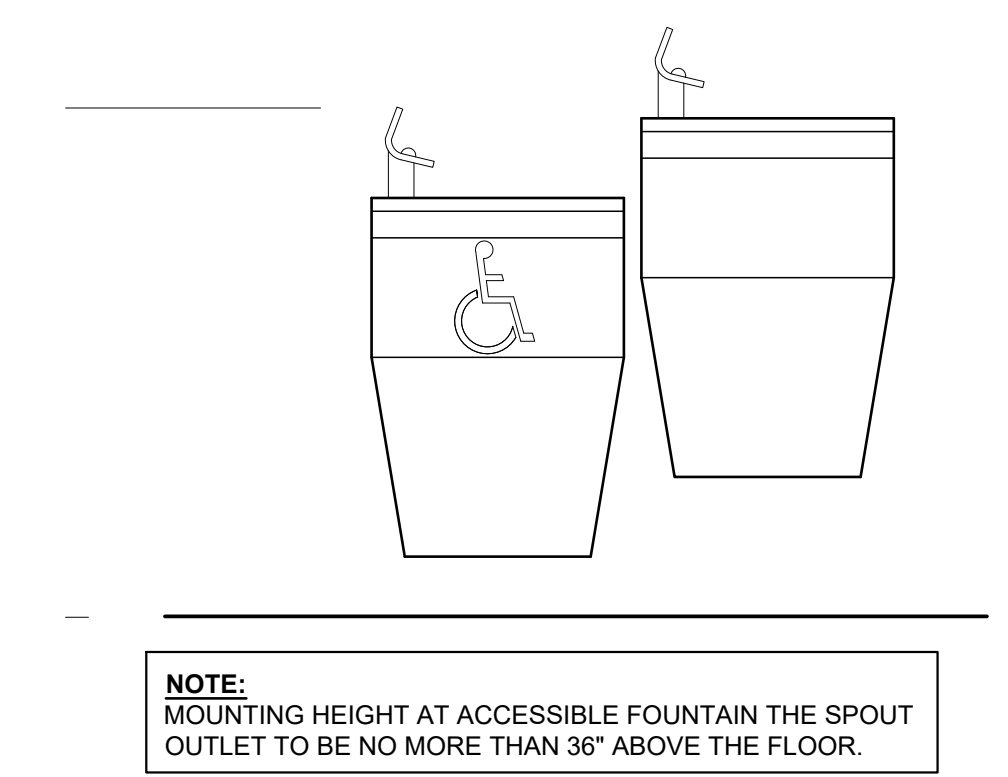
2 HARD TILE DETAIL
 SCALE: 1 1/2" = 1'-0"



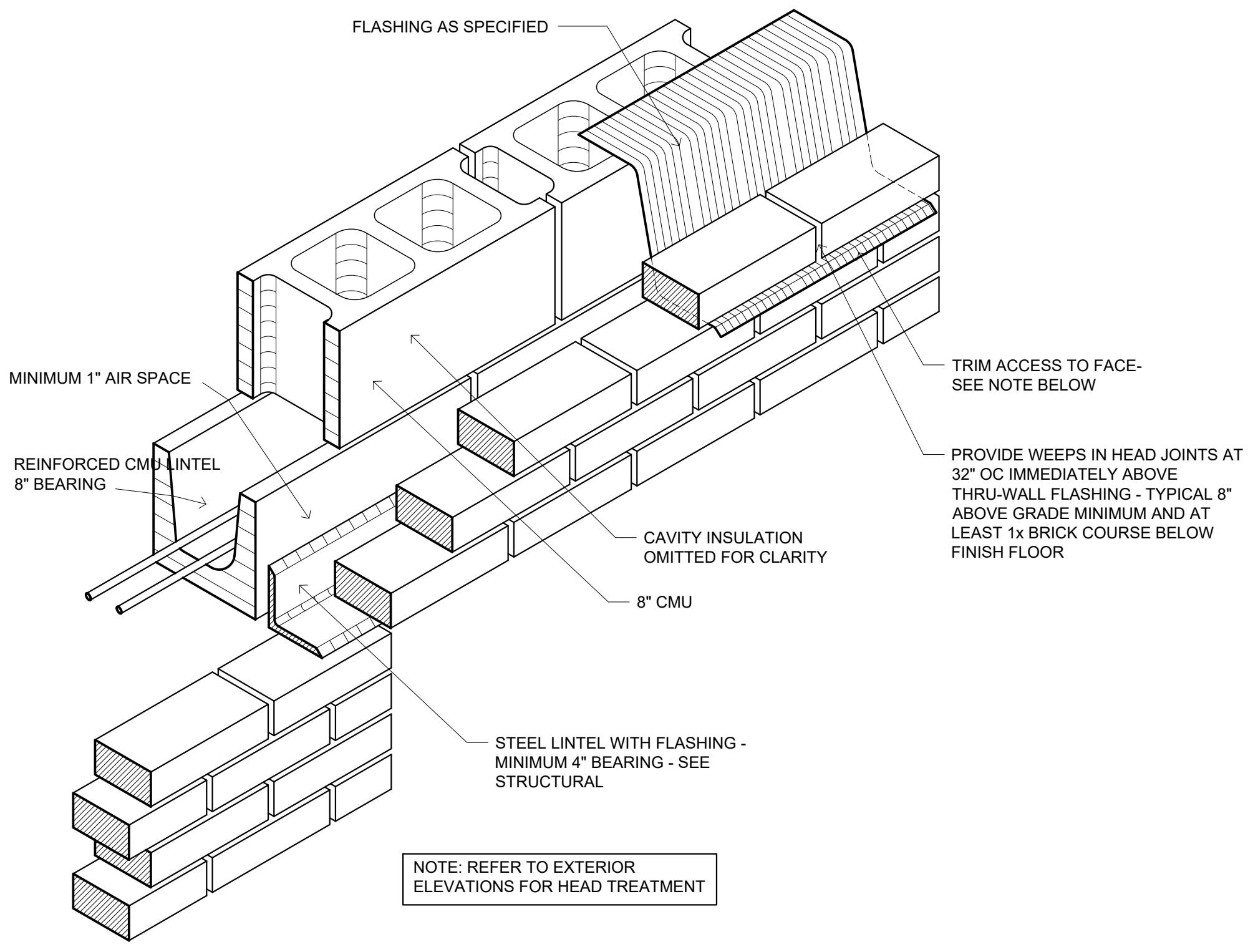
3 RUBBER BASE DETAIL
 SCALE: 1 1/2" = 1'-0"



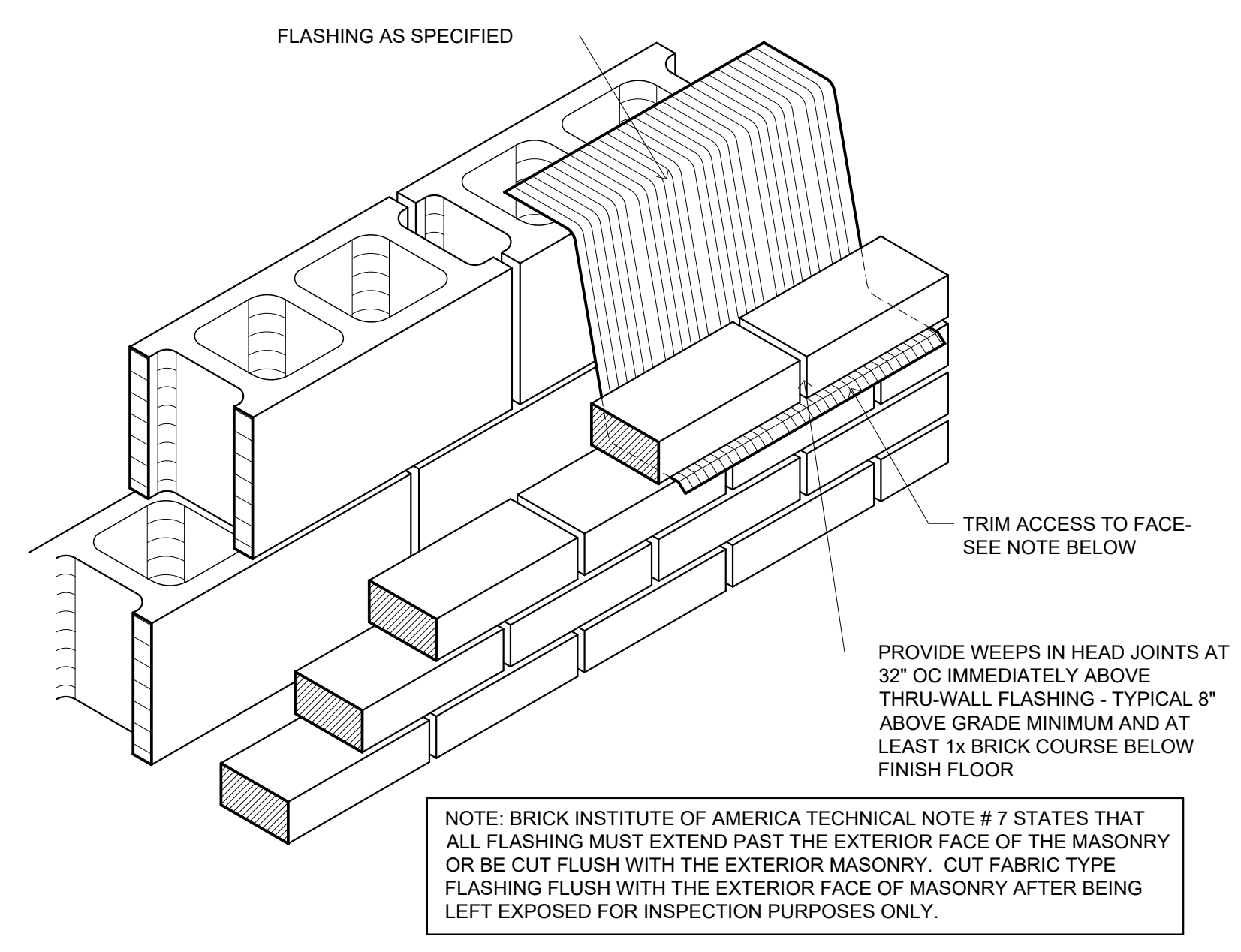
FIRE EXTINGUISHER CABINET (FEC)
 SCALE: 1 1/2" = 1'-0"



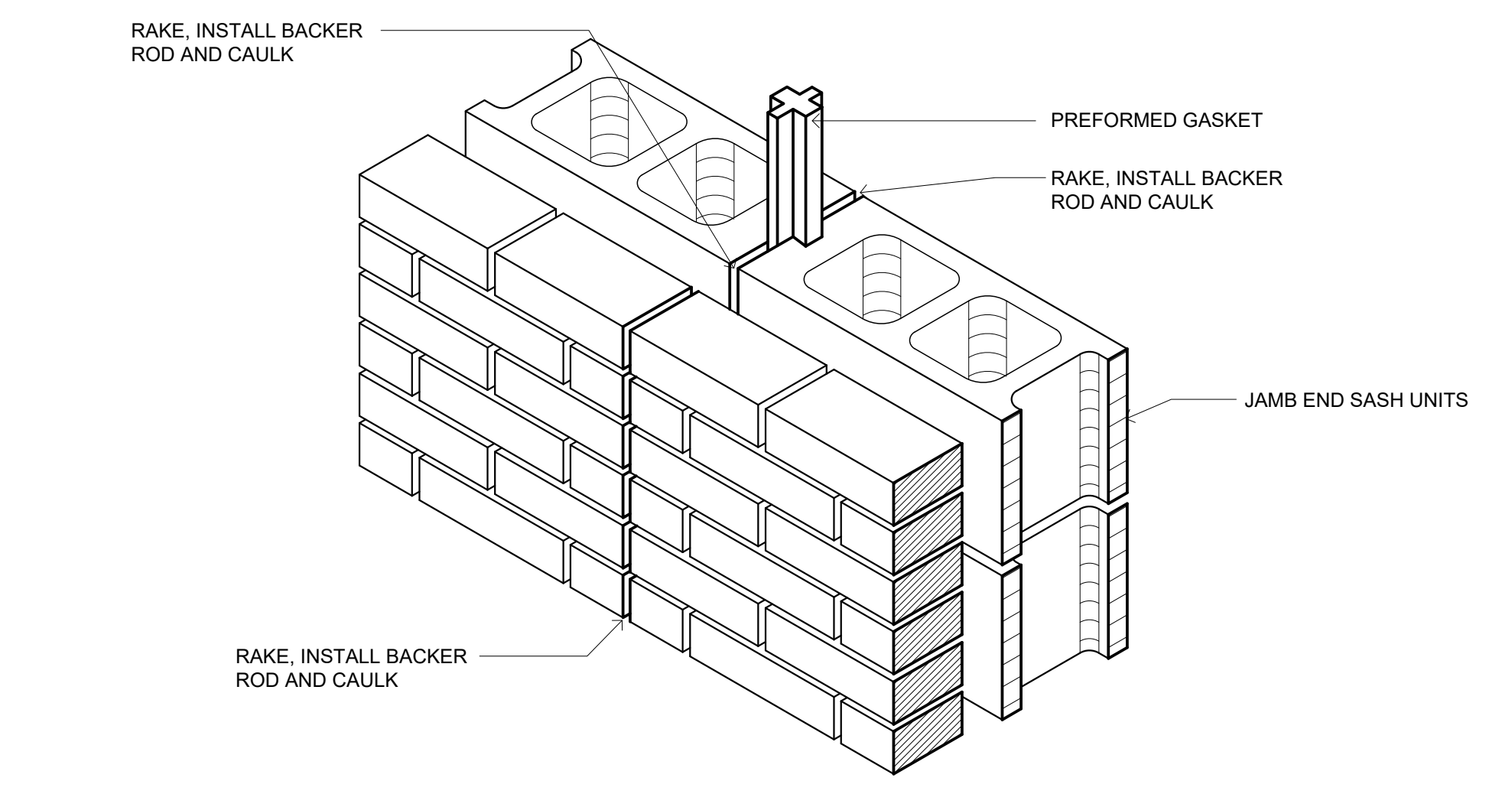
ELECTRIC WATER COOLER (EWC)
 SCALE: 1 1/2" = 1'-0"



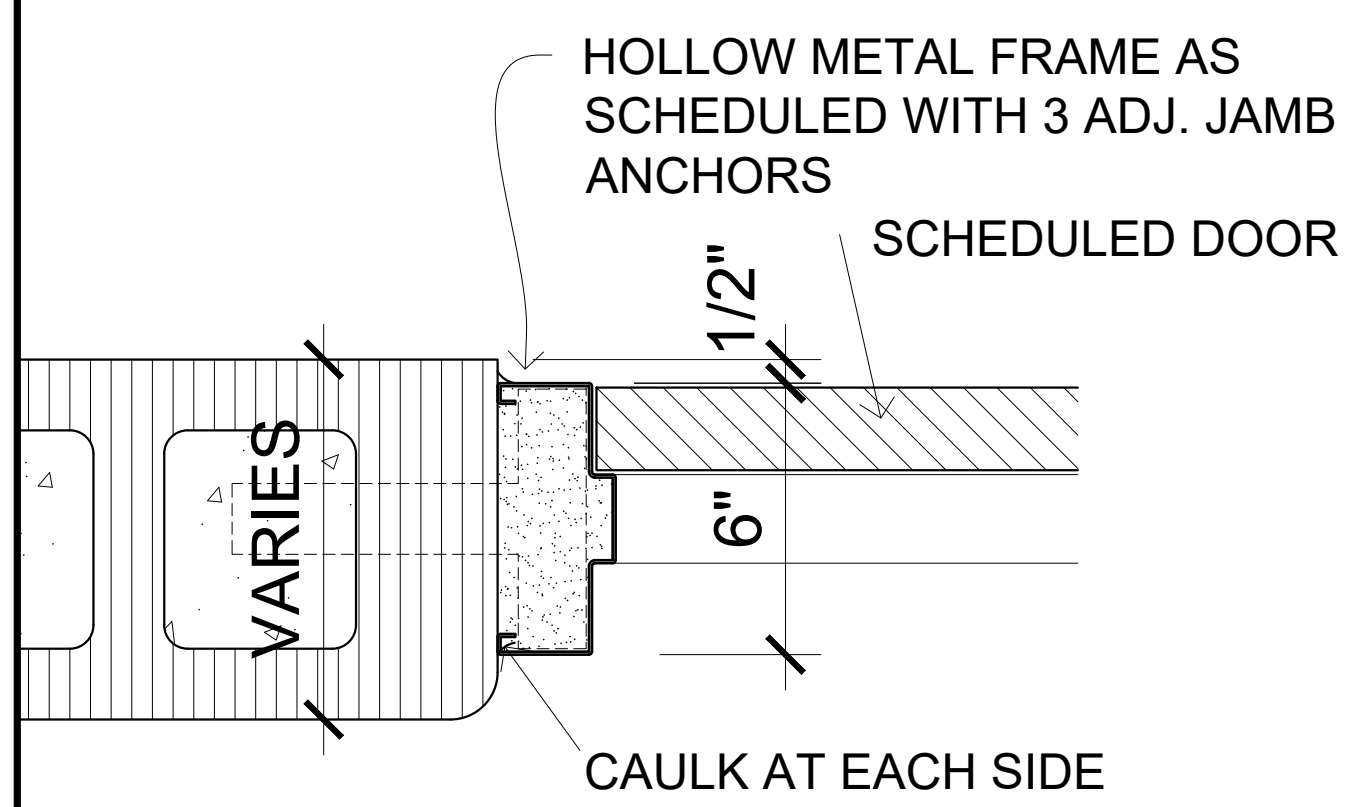
4 MASONRY LINTEL DETAIL
 SCALE: 1 1/2" = 1'-0"



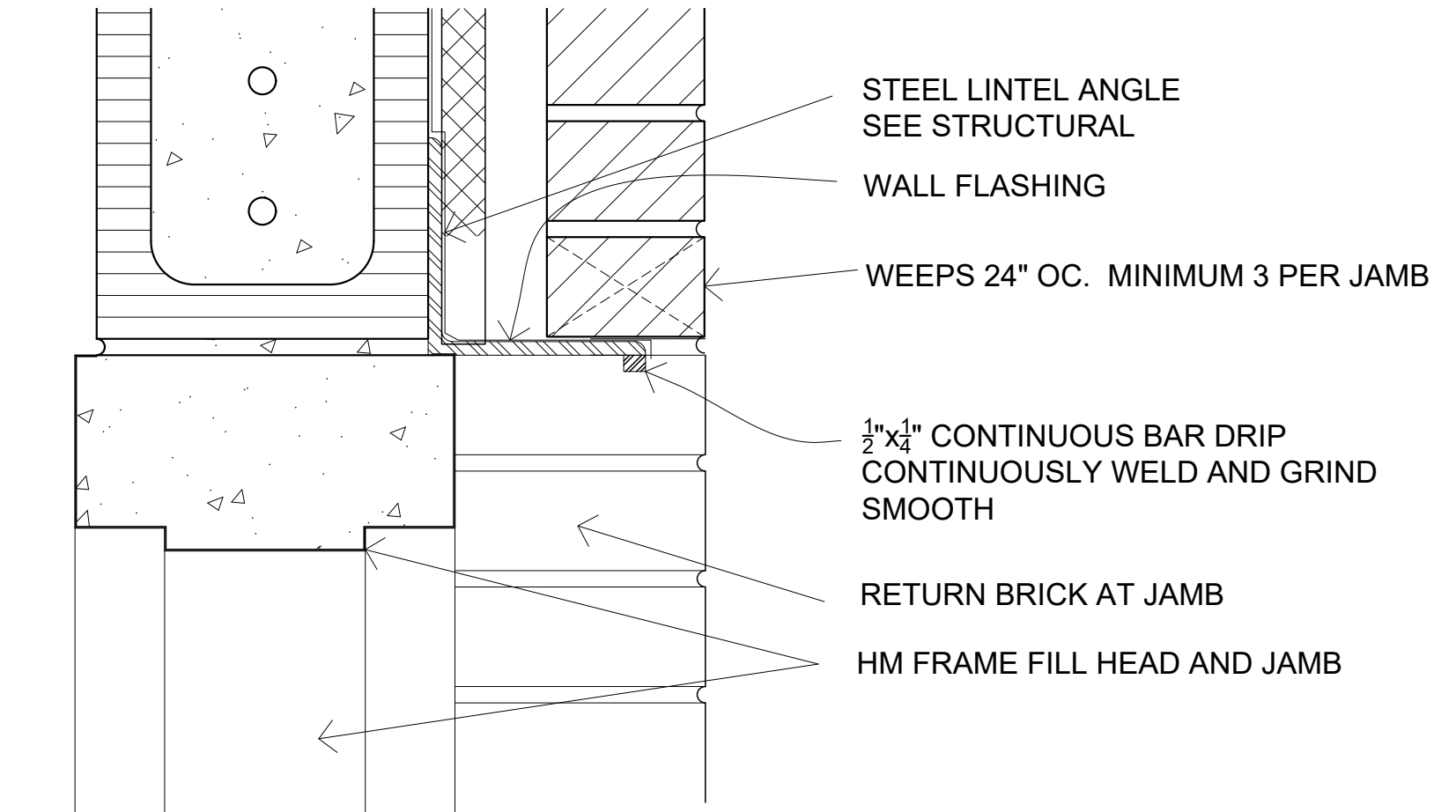
5 THRU-WALL FLASHING DETAIL
 SCALE: 1 1/2" = 1'-0"



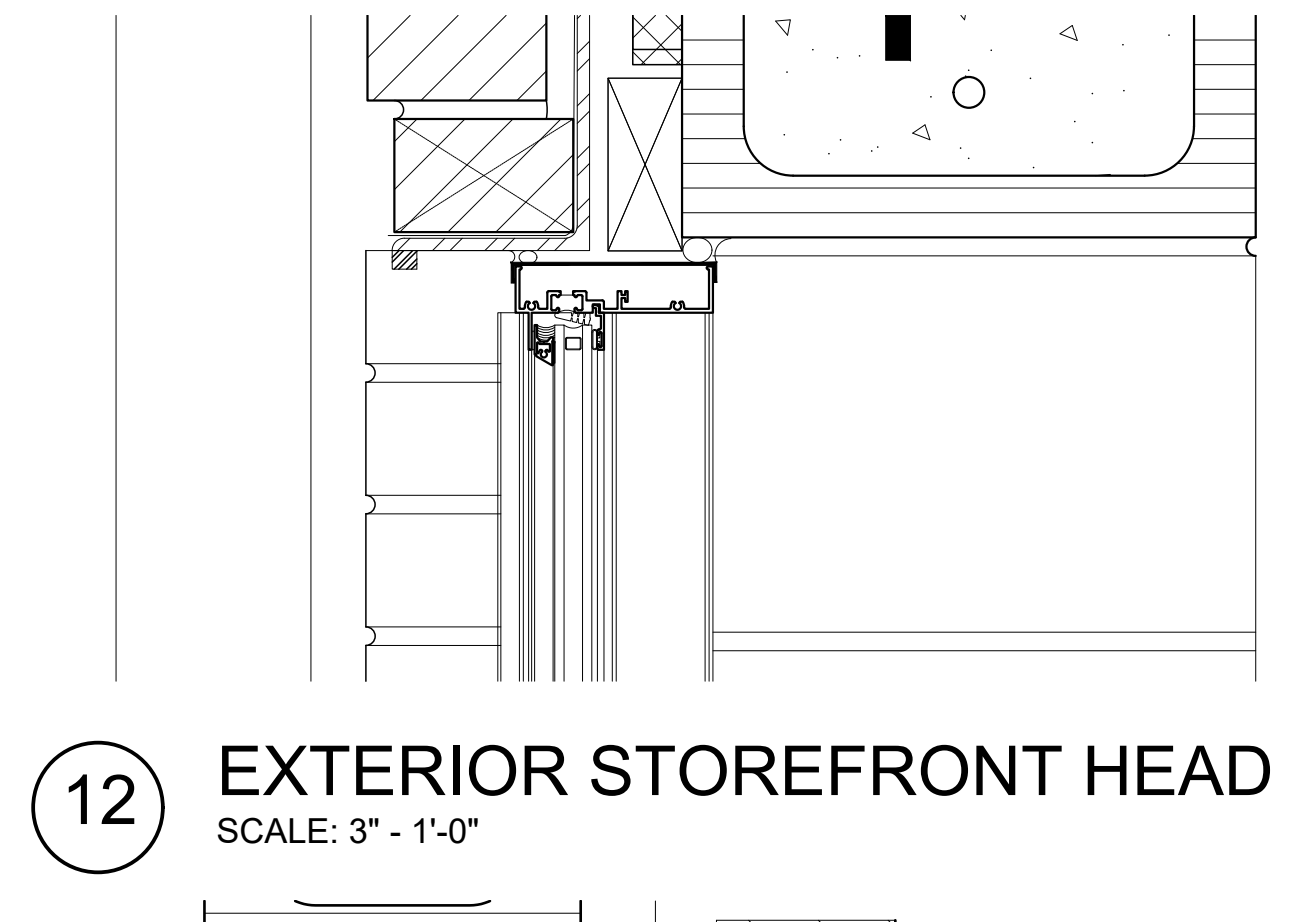
6 MASONRY CONTROL JOINT DETAIL (MCJ)
 SCALE: 1 1/2" = 1'-0"



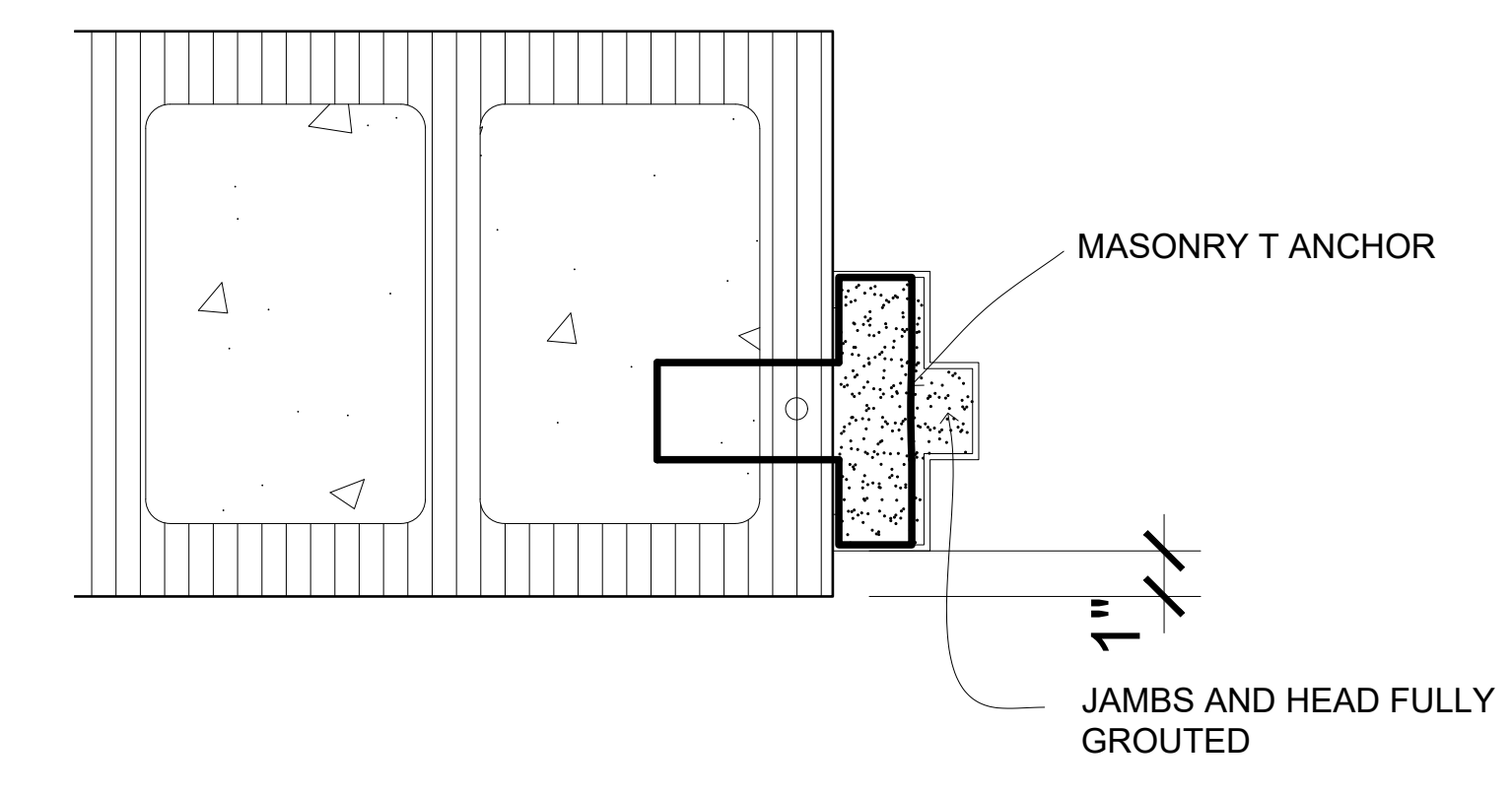
7 INTERIOR DOOR JAMB DETAIL
 SCALE: 1 1/2" = 1'-0"



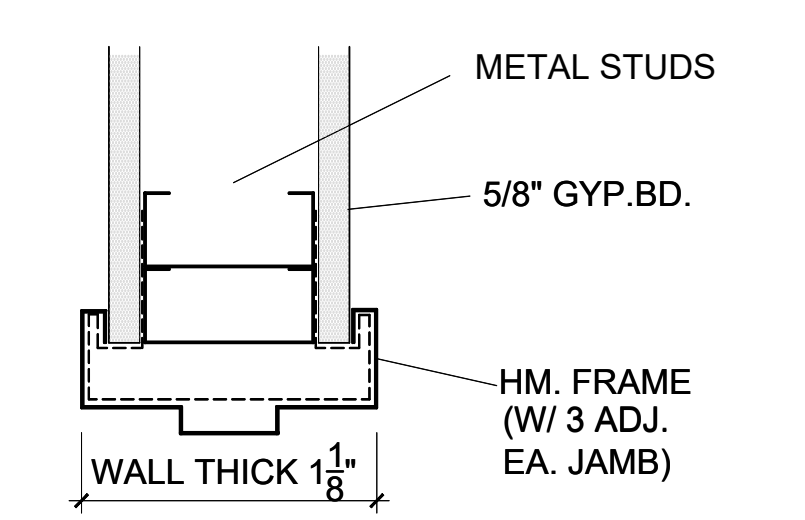
9 EXTERIOR DOOR HEAD DETAIL
 SCALE: 1 1/2" = 1'-0"



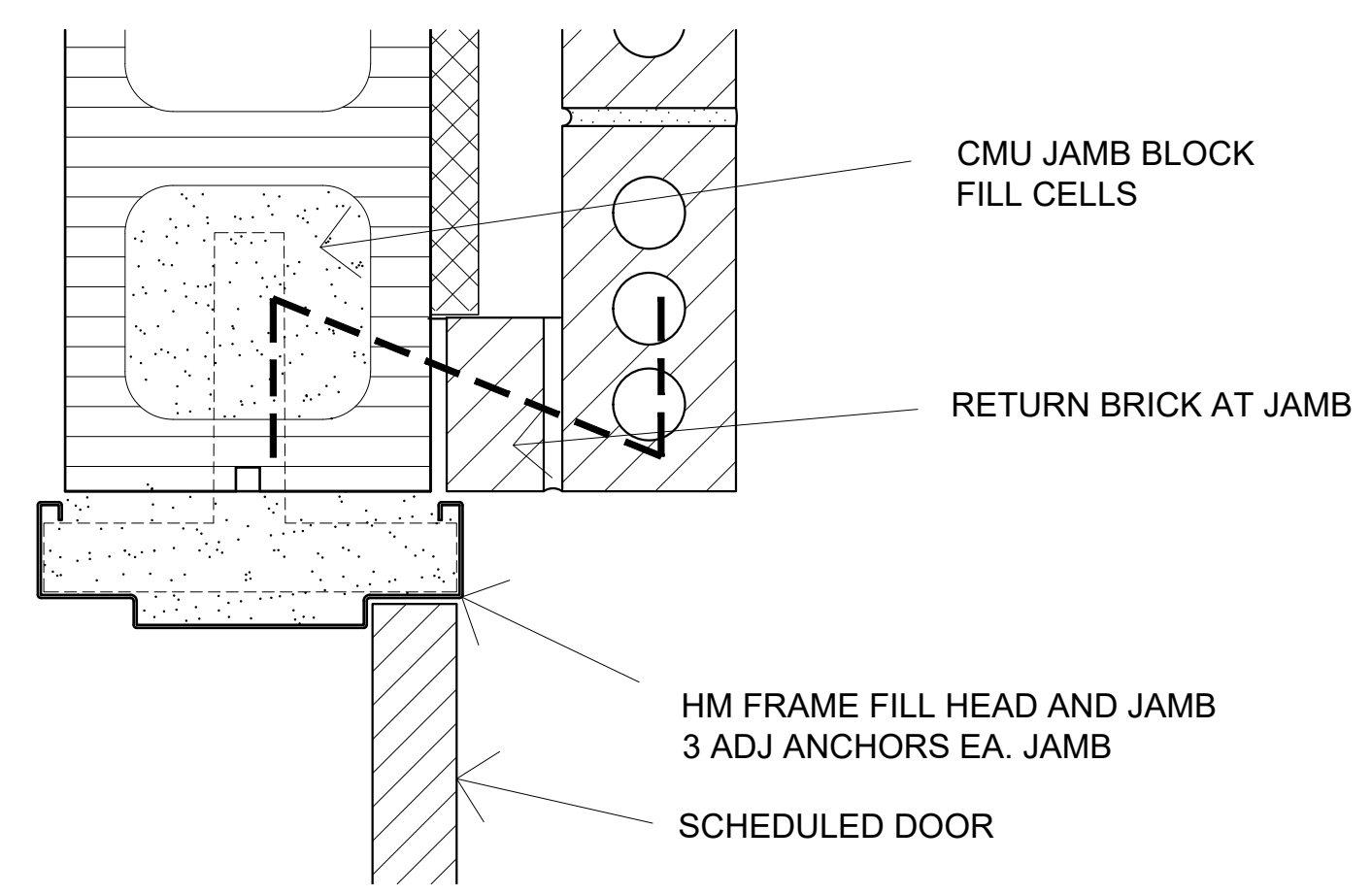
12 EXTERIOR STOREFRONT HEAD DETAIL
 SCALE: 3" = 1'-0"



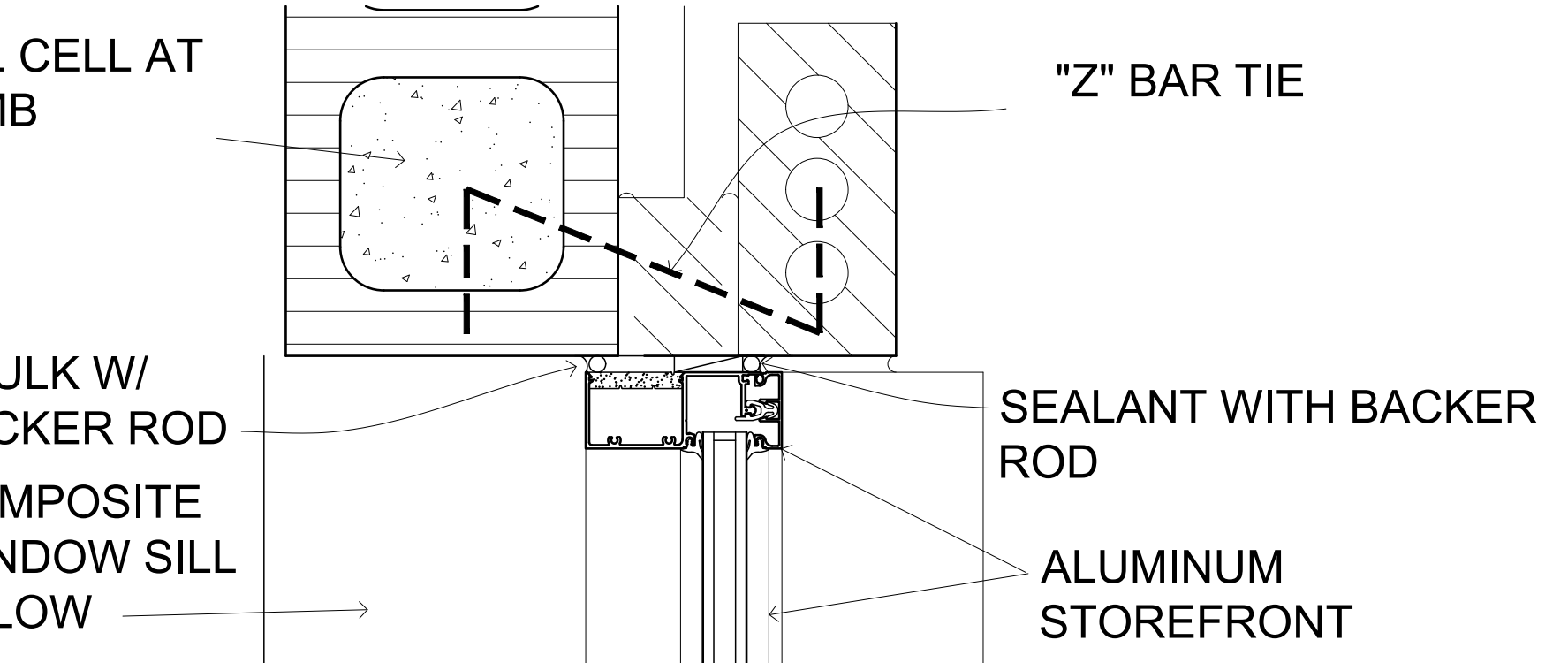
15 FEMA DOOR JAMB DETAIL
 SCALE: 3" = 1'-0" HEAD SIM



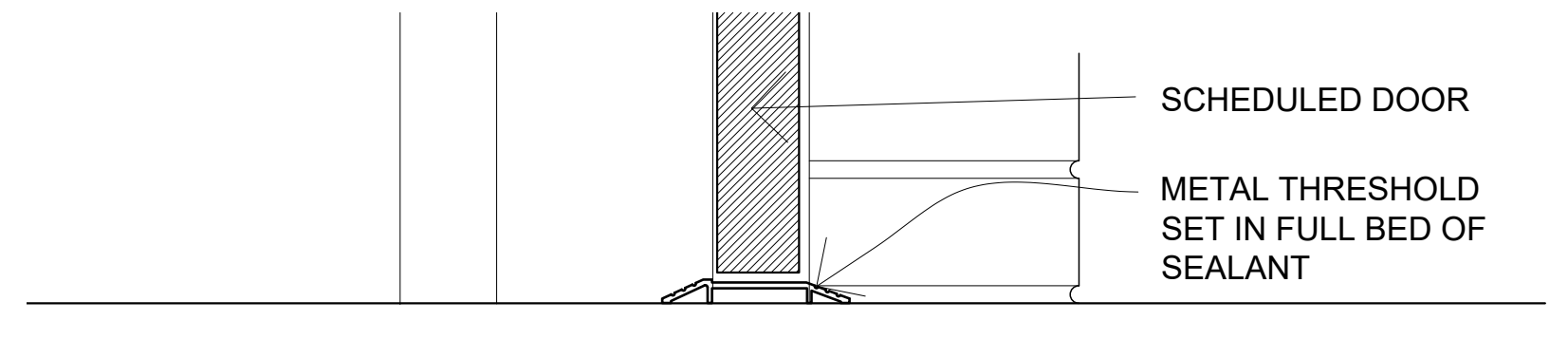
8 DOOR JAMB DETAIL
 SCALE: 3" = 1'-0" HEAD SIMILAR



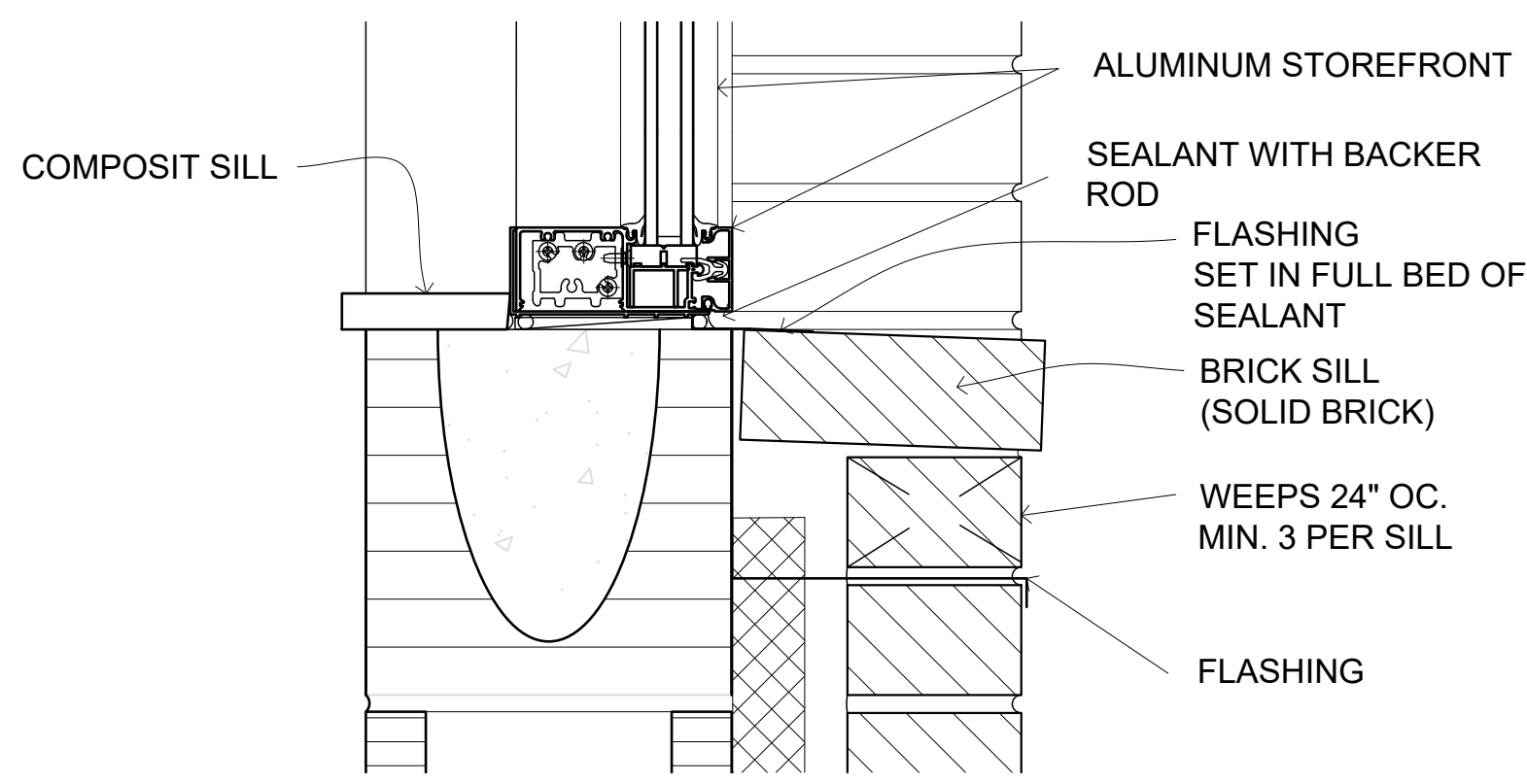
10 EXTERIOR DOOR JAMB DETAIL
 SCALE: 1 1/2" = 1'-0"



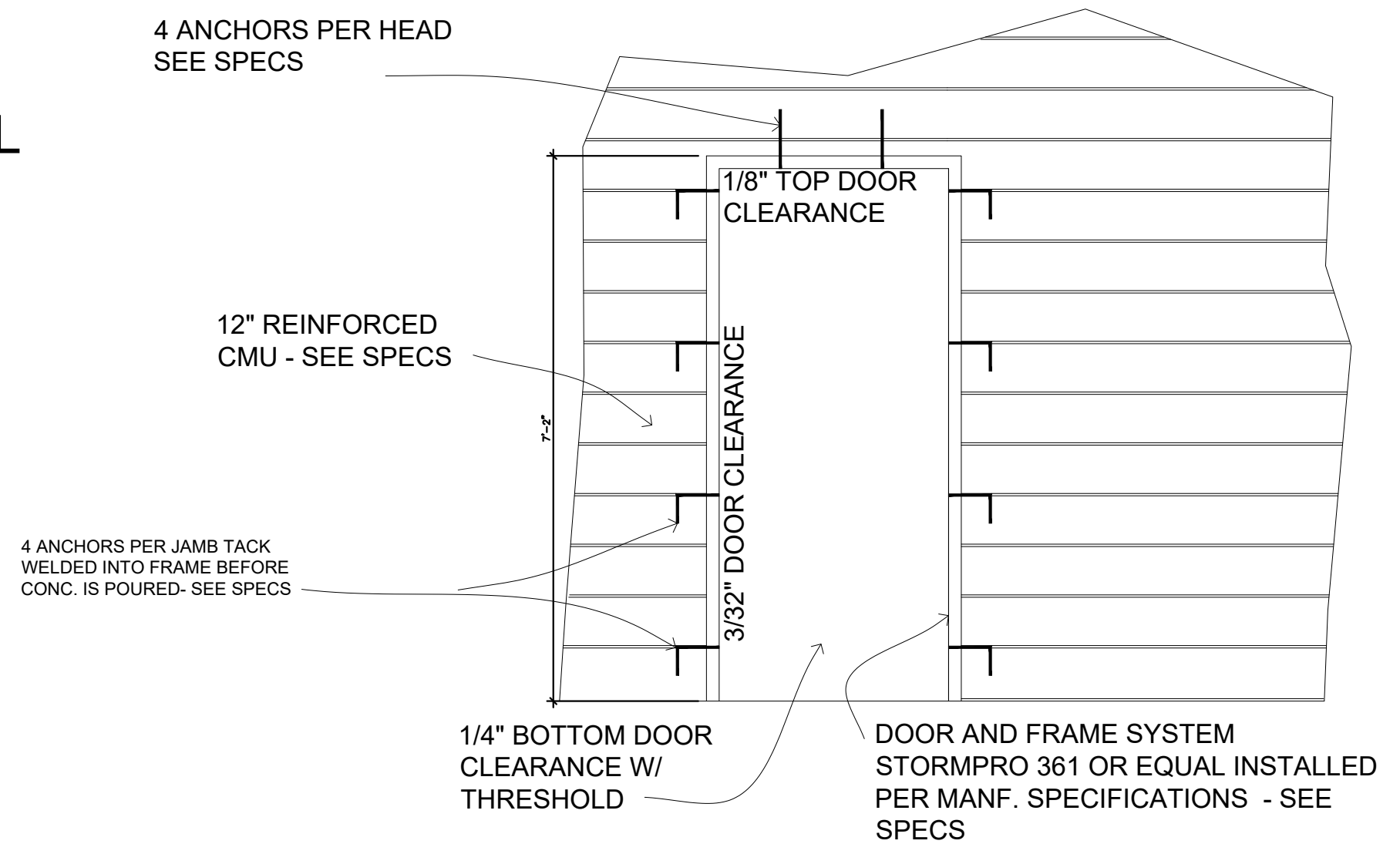
13 EXTERIOR STOREFRONT JAMB DETAIL
 SCALE: 3" = 1'-0"



11 EXTERIOR DOOR THRESHOLD DETAIL
 SCALE: 3" = 1'-0"



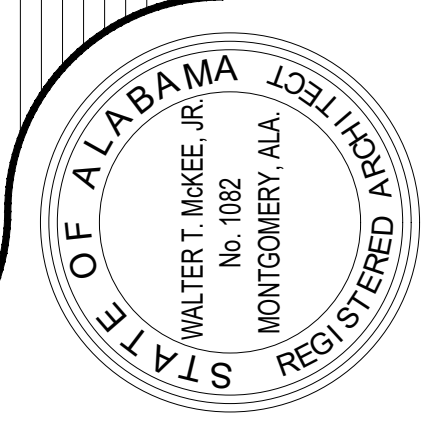
14 EXTERIOR STOREFRONT SILL DETAIL
 SCALE: 3" = 1'-0" SIMILAR AT FEMA WINDOW



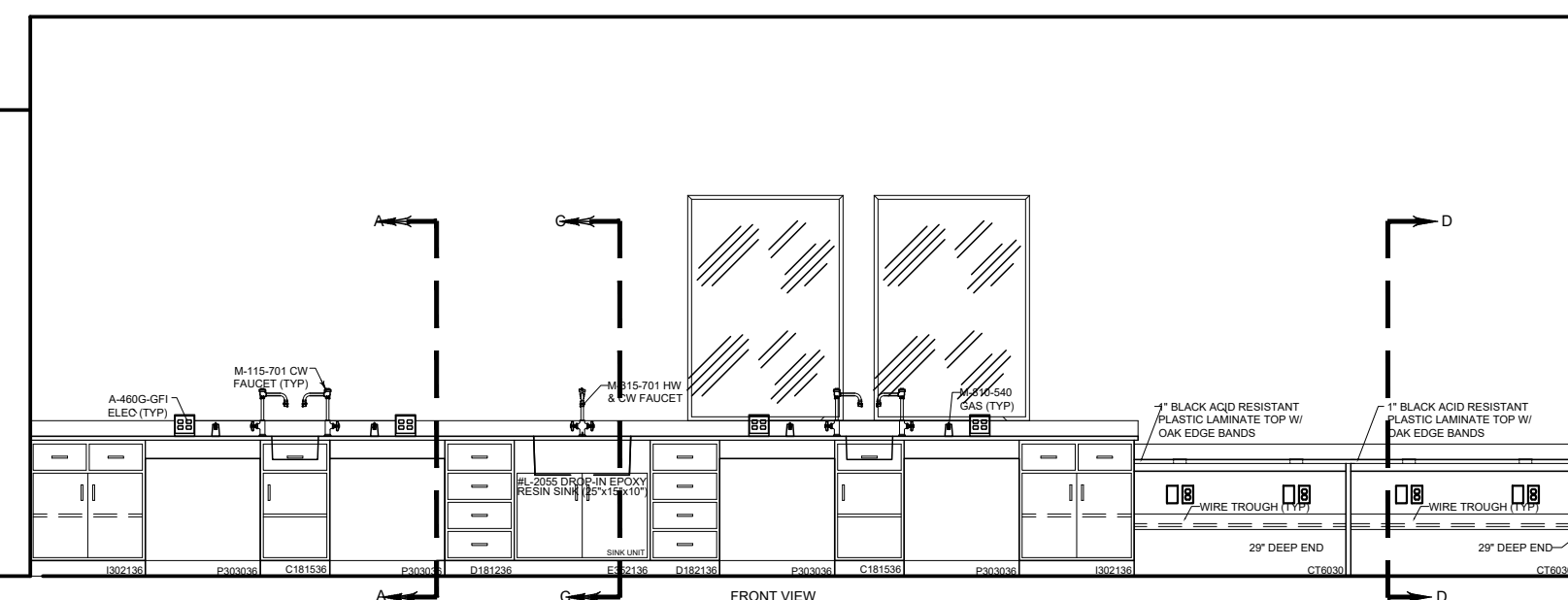
16 FEMA ELEVATION DETAIL
 SCALE: 1/2" = 1'-0"

ADDITION TO
LINDEN HIGH SCHOOL
 FOR THE
LINDEN CITY BOARD OF EDUCATION
 LINDEN, ALABAMA

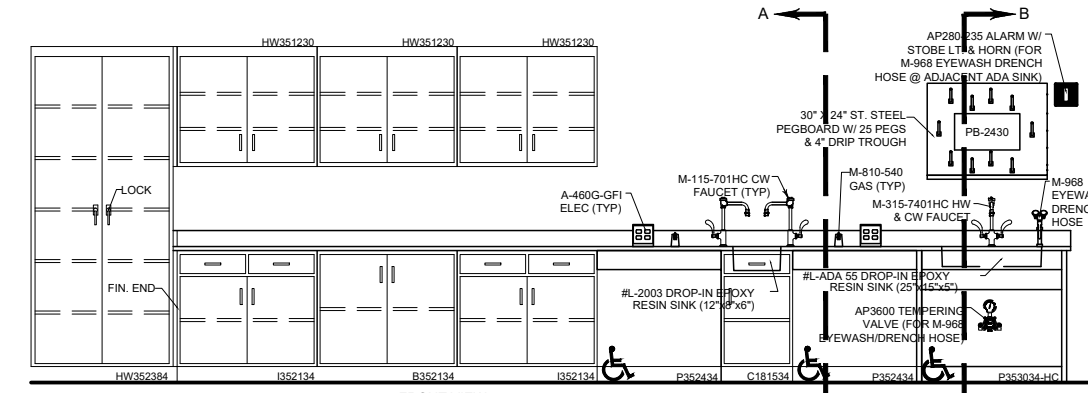
MCKEE & ASSOCIATES
 ARCHITECTS, INC.



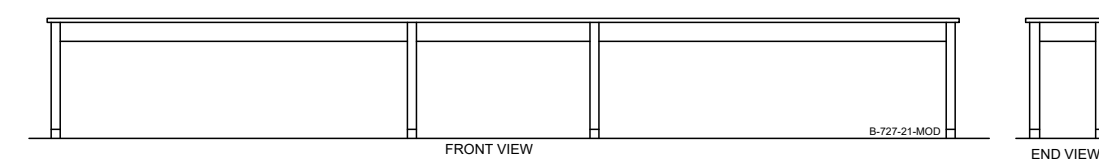
SHEET TITLE : TYPICAL DETAILS
 MCKEE JOB # : 22-315
 DRAWN BY : RT
 DATE : 8/27/2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :
 SHEET NO. : **A10.**



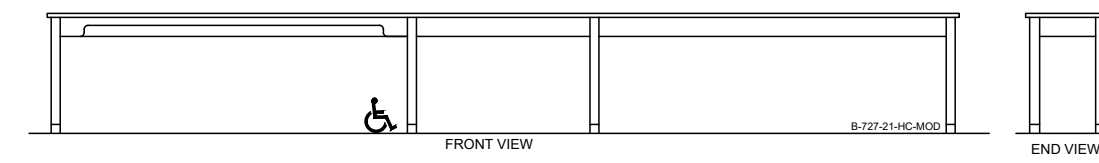
1 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



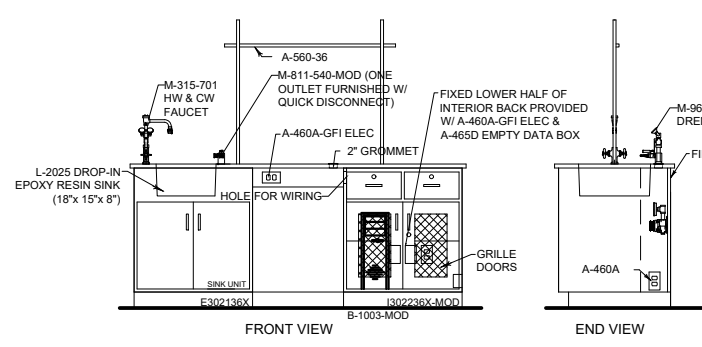
2 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



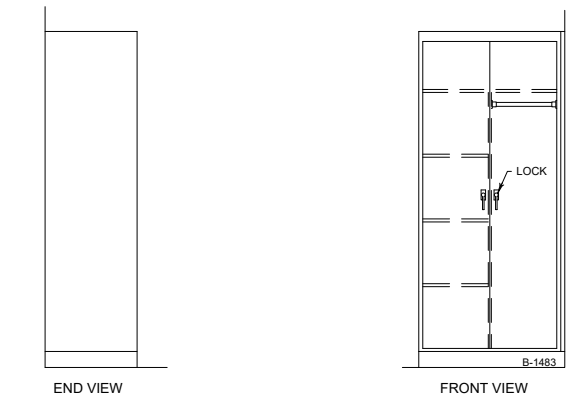
3a INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



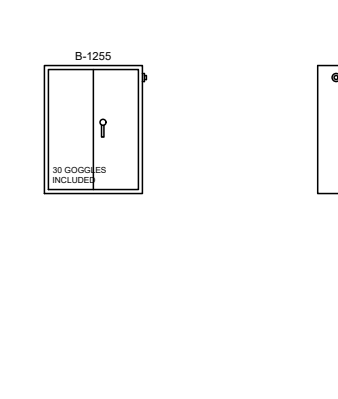
3b INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



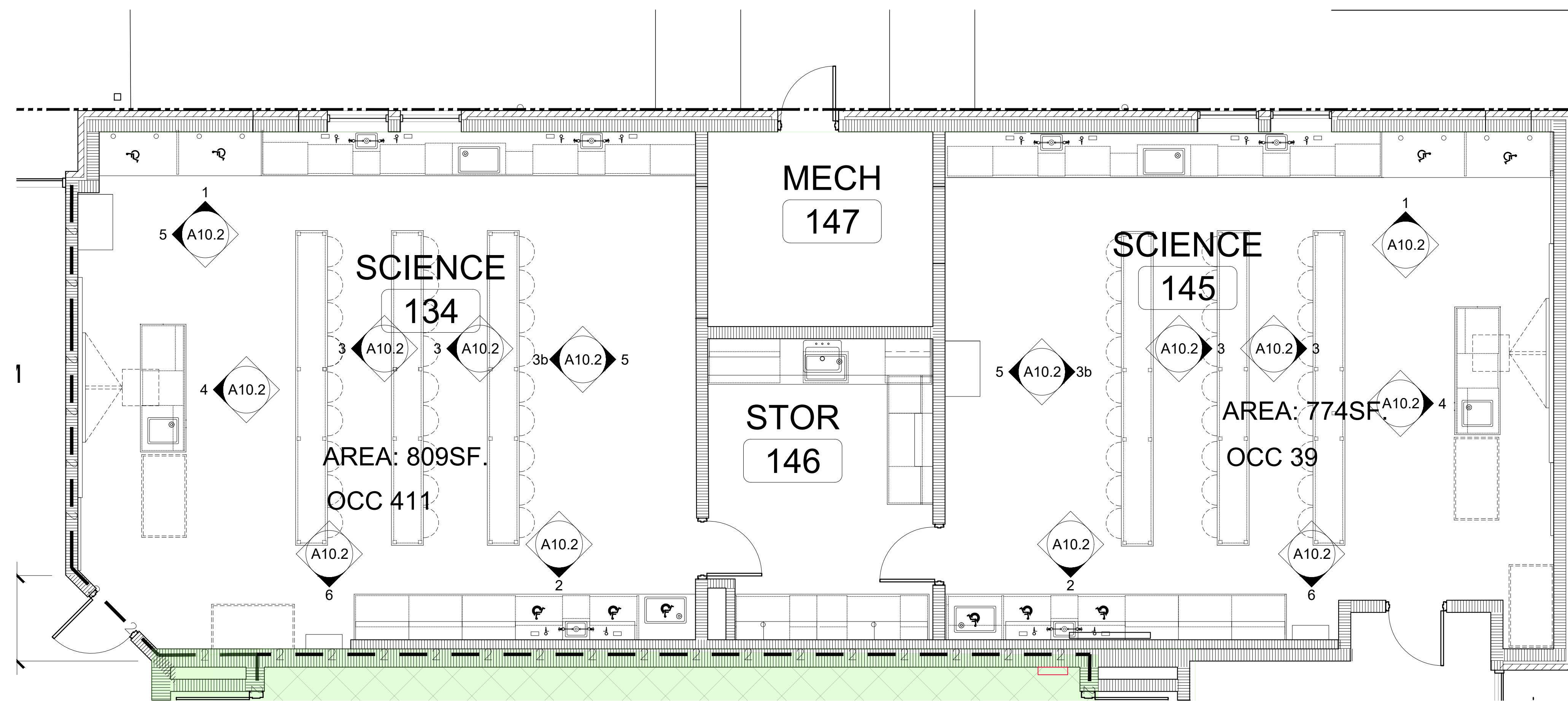
4 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



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



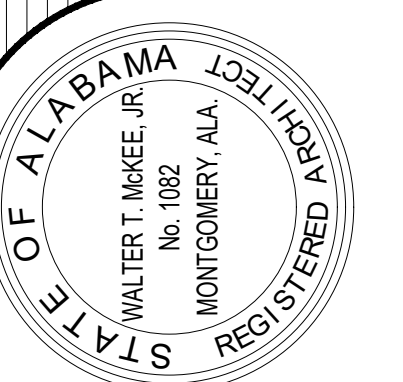
6 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



LARGE SCALE PLAN SCIENCE CLASSROOMS 134 AND 145

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LINDEN, ALABAMA

MCKEE & ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : SCIENCE CASEWORK ELEVATIONS AND LARGE SCALE PLANS
MCKEE JOB # : 22-315
DRAWN BY : RT
DATE : 8/27/2024
REVISED DATE :
REVISED DATE :
REVISED DATE :

SHEET NO. : **A10.2**

PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE	WASTE	C.W.	H.W.	REMARKS
P1	WATER CLOSET	3"	1"	---	FL. MTD. - REG.
P2	ADA WATER CLOSET	3"	1"	---	FL. MTD. - ADA
P3	URINAL	2"	3/4"	---	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P4	ADA LAVATORY **	1 1/4"	1/2"	1/2"	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P5	MOP BASIN	3"	1/2"	1/2"	FL. MTD. CORNER TYPE
P6	SPLIT LEVEL EWC	1 1/2"	1/2"	---	ADA - WALL HUNG - HIGH/LOW
P7	---	NOT USED	---	---	NOT USED
P8	REFRIG. ICE MAKER	---	1/2"	---	ROUGH-IN AND CONN.
P9	ADA SINK	1-1/2"	1/2"	1/2"	1-COMP. COUNTER MOUNTED
T.P.	TRAP PRIMER	---	1/2"	---	CONNECT TO FLOOR DRAIN AS SPECIFIED

** PROVIDE A WATER TEMPERATURE LIMITING DEVICE (ASSE 1070 MIXING VALVE) WITH 1/2" TEMPERED WATER LINE TO FAUCET - SEE SPECS FOR REQUIREMENTS

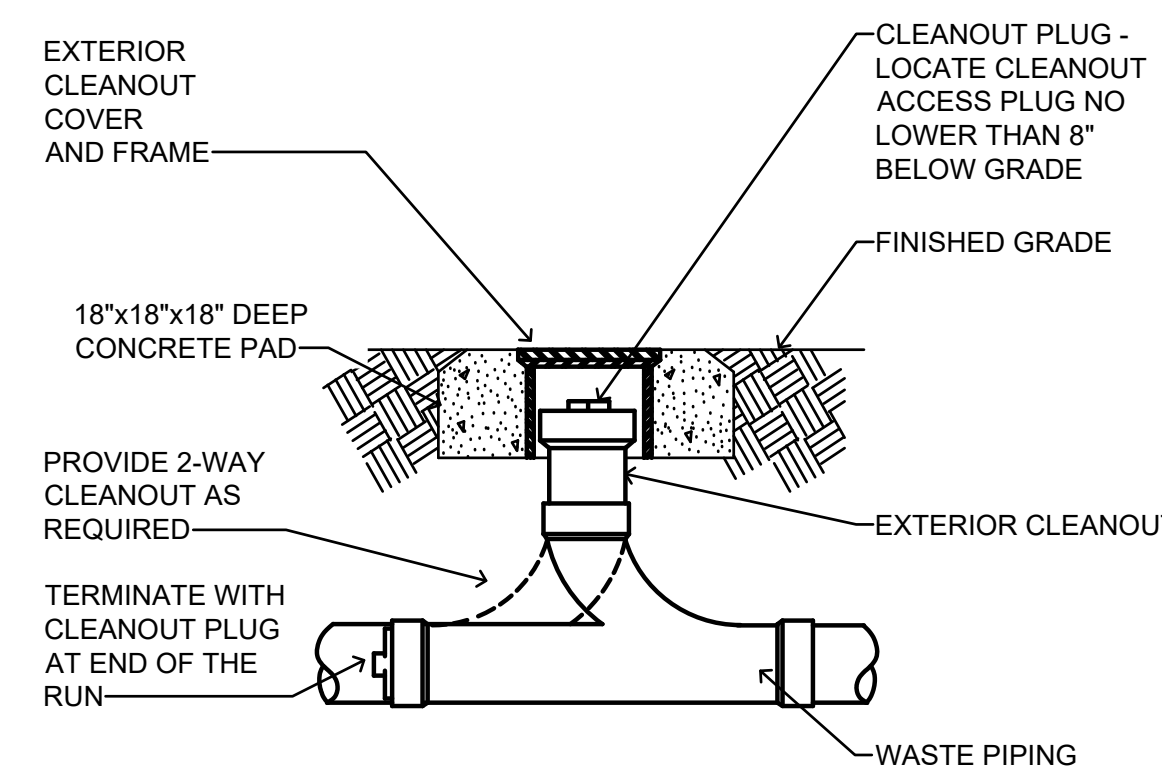
LEGEND

---	WASTE PIPE
---	VENT PIPE
---	COLD WATER PIPE
---	HOT WTR. PIPE (125°)
---	HOT WTR. RECIRC. PIPE
G	GAS PIPE
S	STORM WATER PIPE
AR	ACID RESIST. WASTE PIPE
AR	ACID RESIST. VENT PIPE

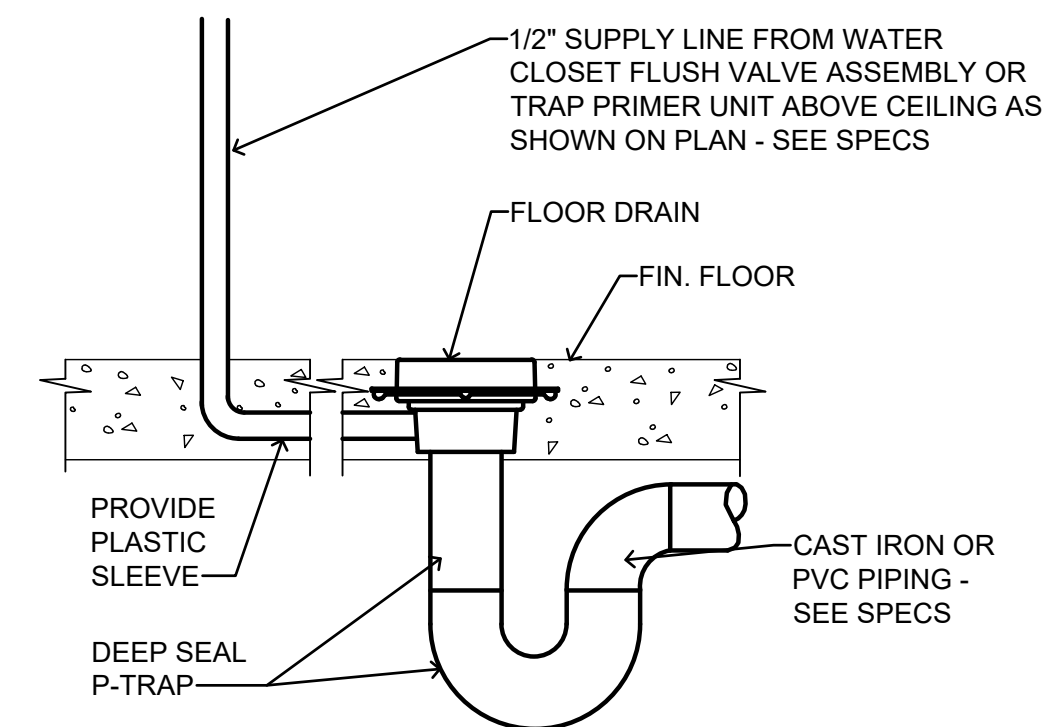
U	UNION
G	GATE VALVE
C	CHECK VALVE
B	BALL VALVE

B.V.	BALL VALVE
C.I.	CAST IRON
C.O.	CLEANOUT
D.S.	DOWNSPOUT
FCO	FLOOR CLEANOUT
F.D.	FLOOR DRAIN
M.F.D.	MECH. FLOOR DRAIN
K.F.D.	KITCHEN FLOOR DRAIN
F.S.	FLOOR SINK
G.V.	GATE VALVE
H.C.	HANDICAPPED
H.D.	HUB DRAIN
I.W.H.	INTERIOR WALL HYDRANT
W.H.	WALL HYDRANT
R.D.	ROOF DRAIN
T.P.	TRAP PRIMER
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF
VSTR	VENT STACK THRU ROOF
VSTW	VENT STACK THRU WALL
W&V	WASTE AND VENT

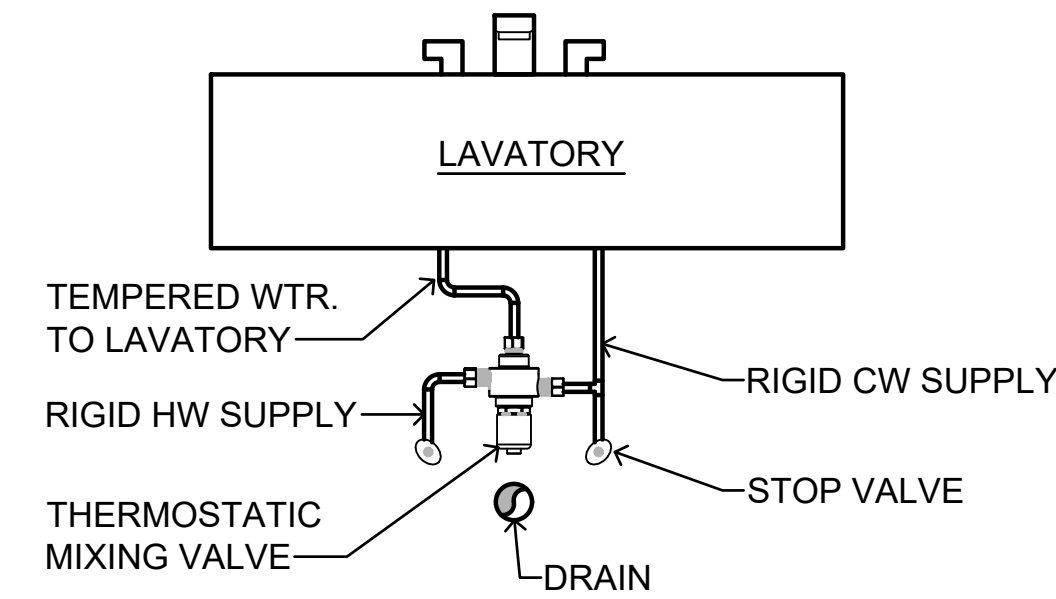
●	INDICATES POINT OF CONNECTION TO EXISTING
+	INDICATES POINT OF CONNECTION TO OUTSIDE UTILITY. SEE CIVIL DWGS.



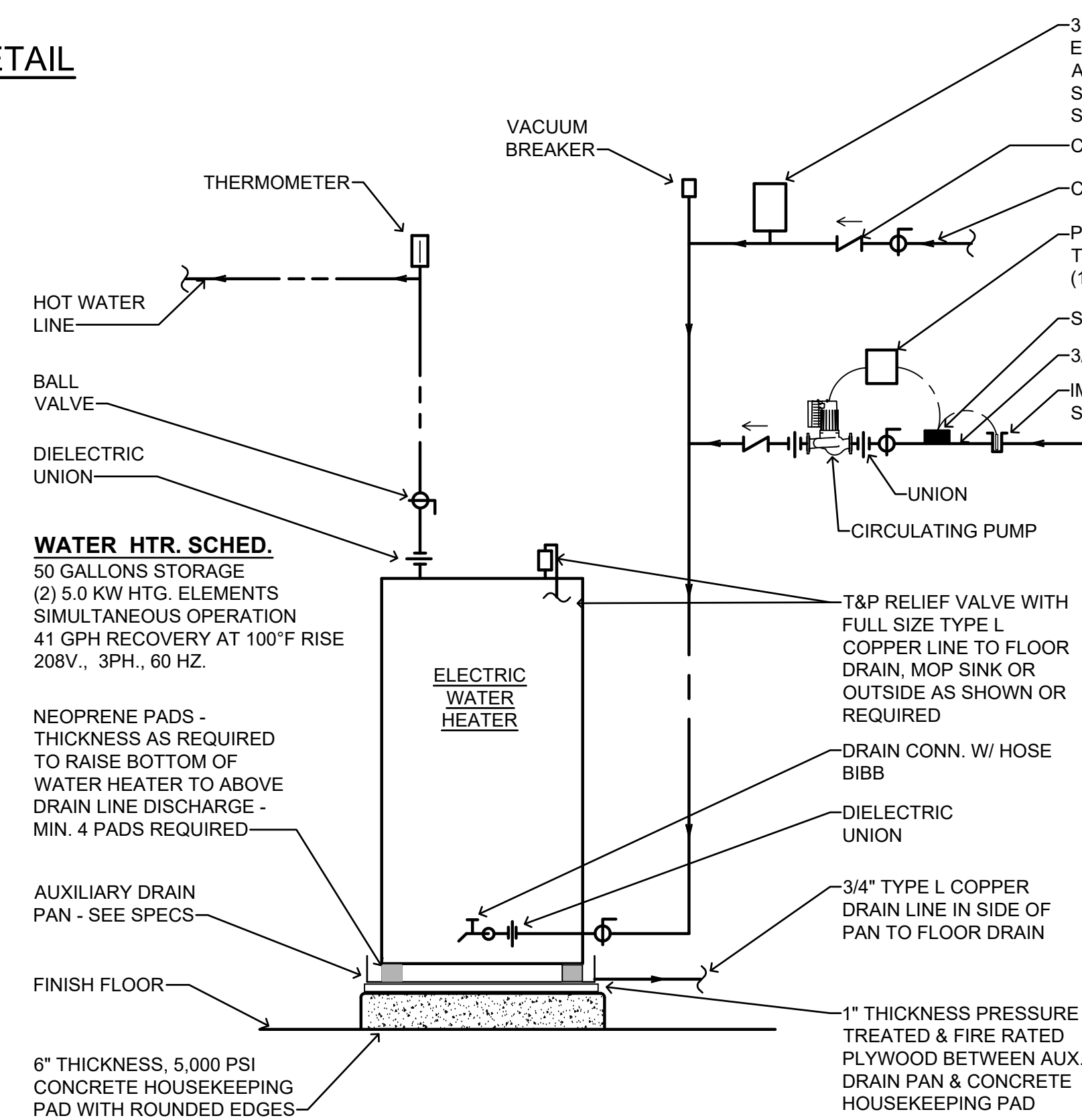
TYP. EXTERIOR CLEANOUT DETAIL
NO SCALE



TRAP PRIMER DETAIL
NO SCALE

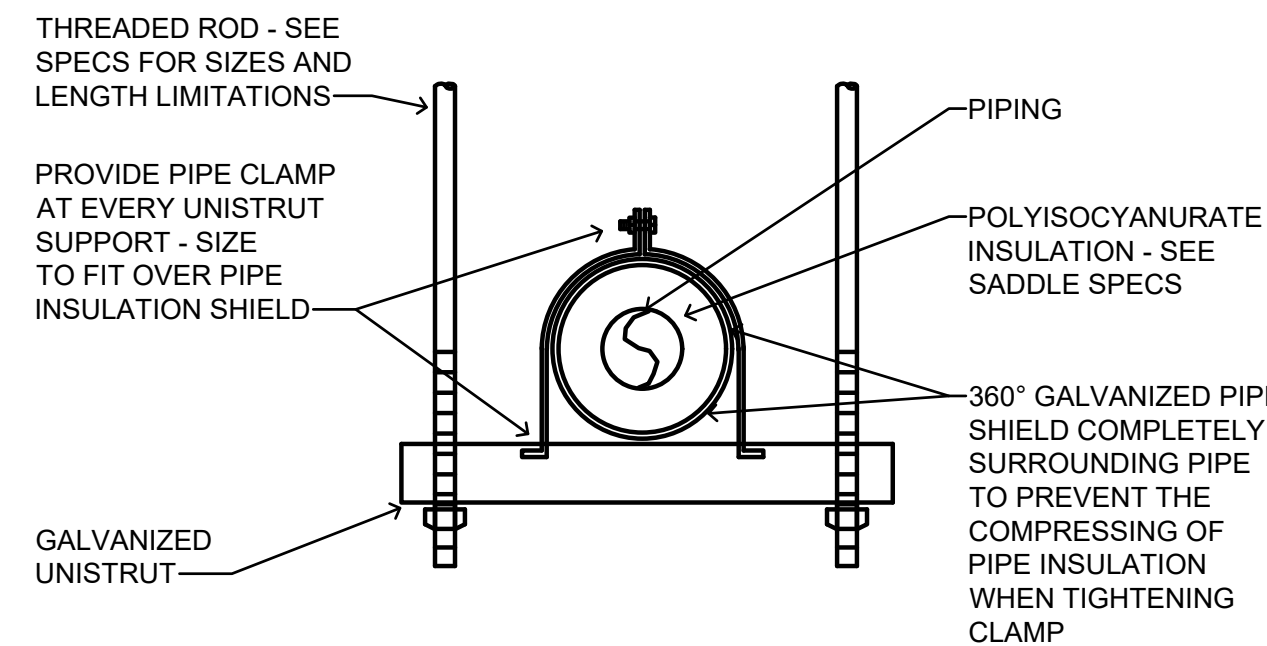


DETAIL OF TMV BELOW LAVATORY
NO SCALE

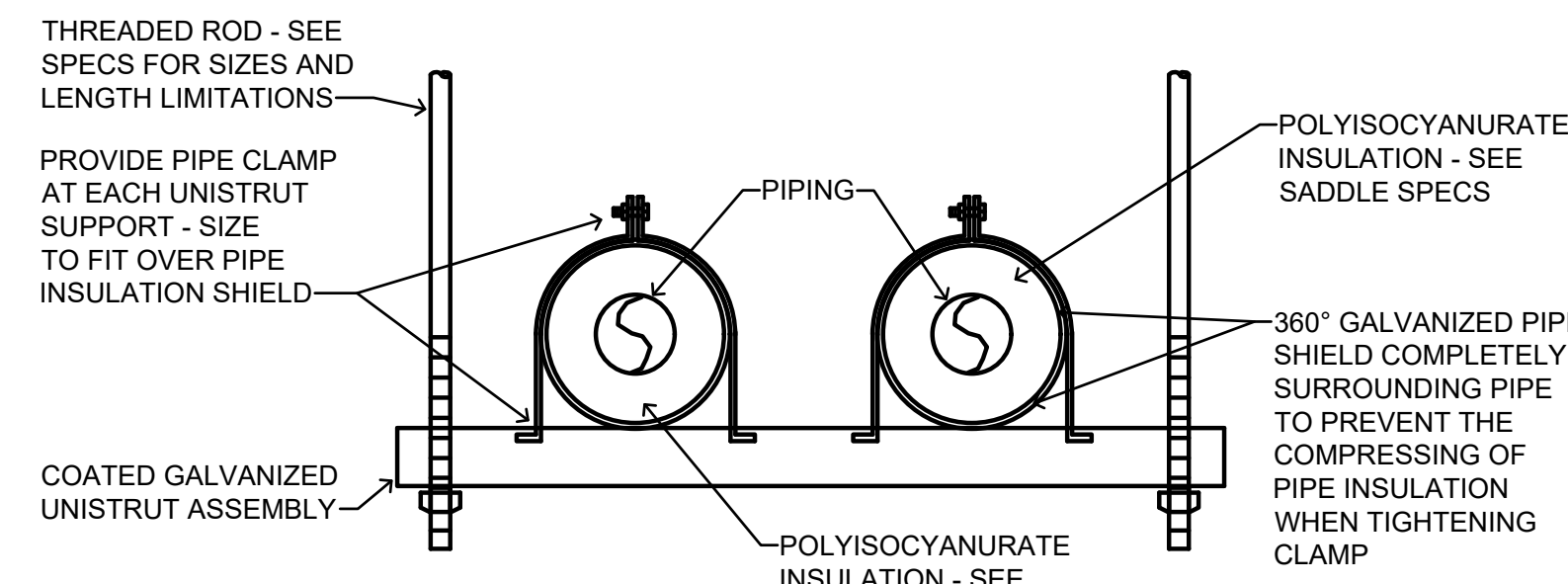


WATER HEATER DETAIL
NO SCALE

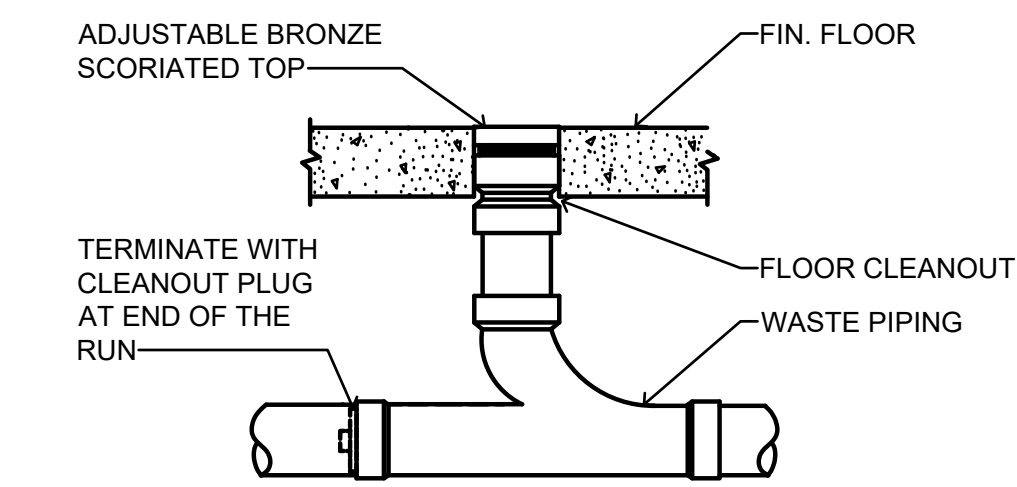
NOTES:
PREFABRICATED STANDS ARE NOT ALLOWED.



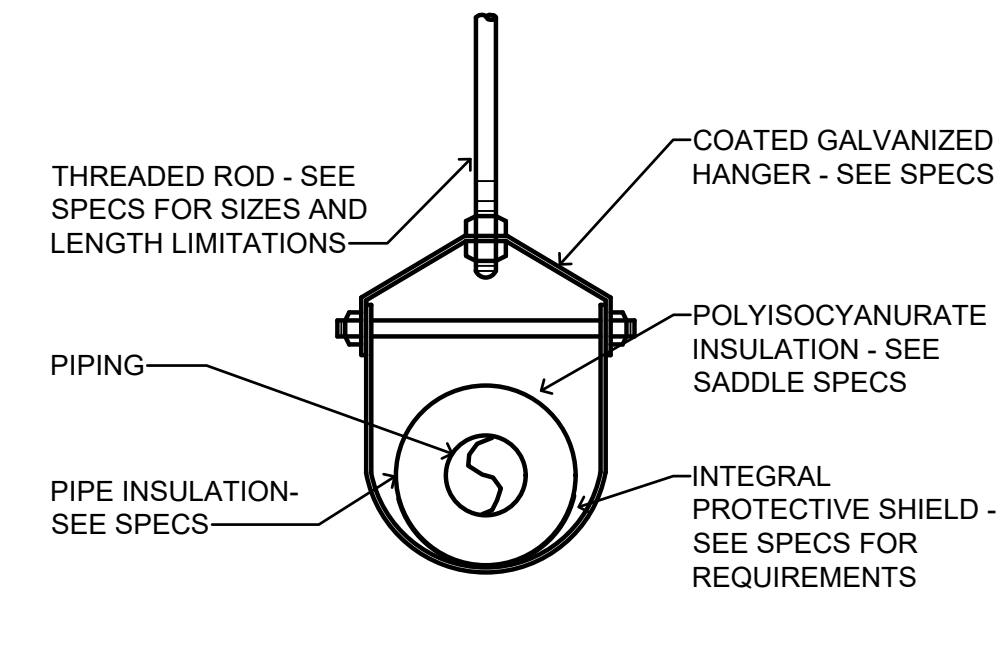
TYPICAL UNISTRUT HANGER DETAIL
NO SCALE



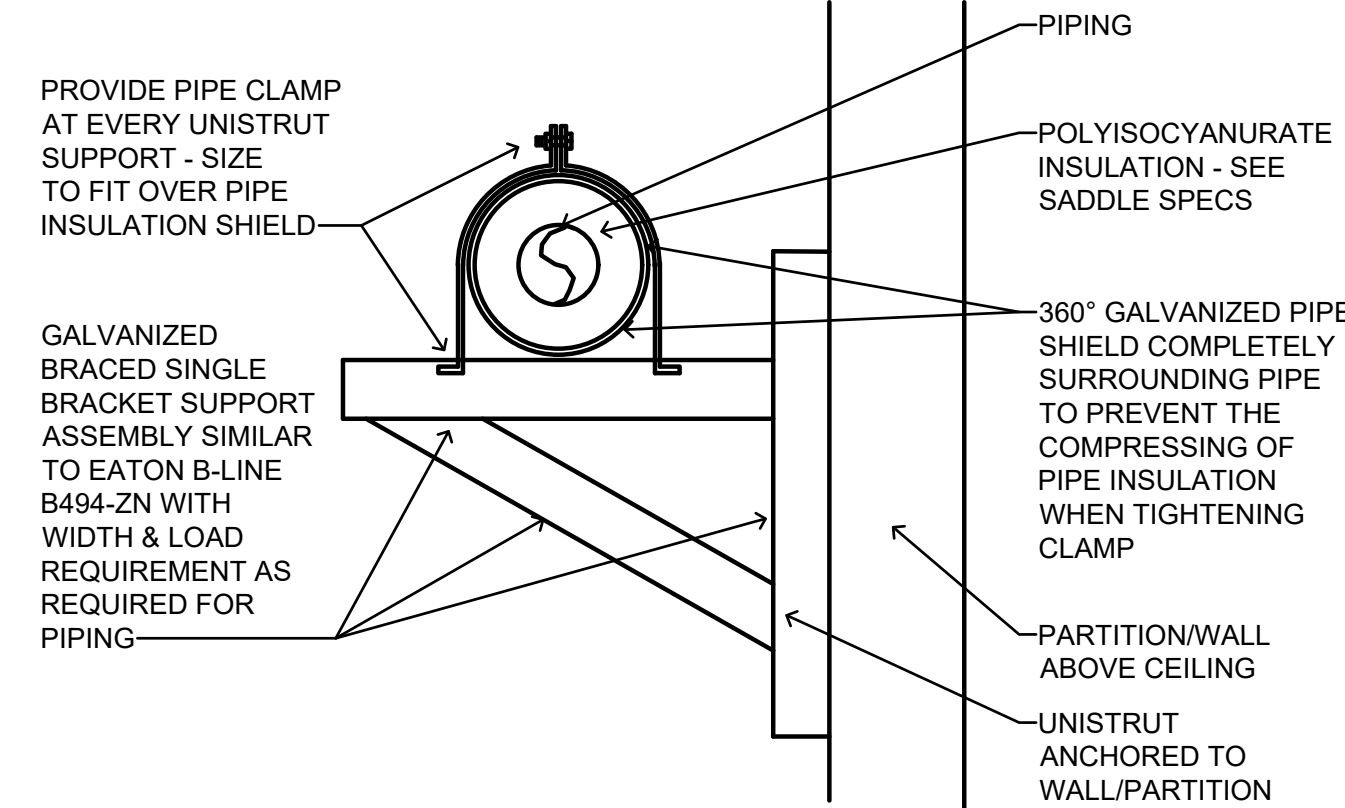
TYPICAL MULTIPLE PIPES HANGER DETAIL
NO SCALE



TYP. INTERIOR FLOOR CLEANOUT DETAIL
NO SCALE

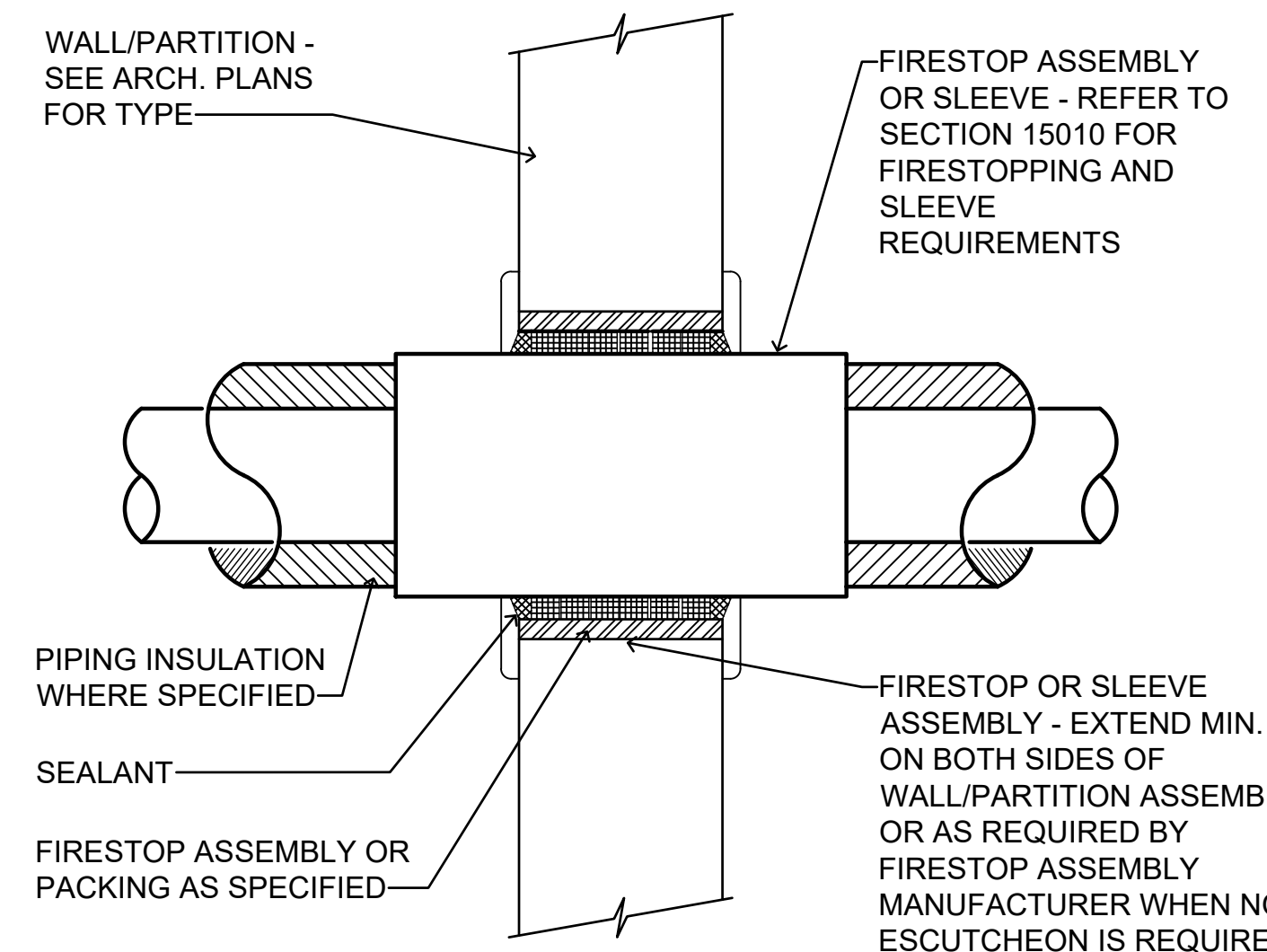


TYPICAL PIPE HANGER DETAIL
NO SCALE



TYPICAL HORIZONTAL/VERTICAL UNISTRUT PIPING SUPPORT DETAIL AT ABOVE CEILING PARTITION

- NOTES:
- MULTIPLE PIPES SIMILAR.
 - SUPPORT SPACING SHALL BE AS SPECIFIED FOR UNISTRUT ASSEMBLIES.
 - MANUFACTURER'S SADDLE LABEL WITH LOGO STICKER SHALL BE APPLIED TO EACH SADDLE AND SHALL BE VISIBLE FOR VERIFICATION OF PROPER INSTALLATION.
 - TYPICAL UNISTRUT AND HANGER DETAILS INDICATED ARE PREFERRED. THIS DETAIL IS REQUIRED FOR PIPING SUPPORTS WHEN HANGER RODS EXCEED 36" TO STRUCTURE ABOVE CEILING.
 - COORDINATE UNISTRUT ATTACHMENTS/ANCHORS TO WALL WITH ARCHITECT'S SPECIFICATIONS FOR TYPE OF WALL INSTALLED AND PROVIDE ANCHORS/ATTACHMENTS AS REQUIRED.

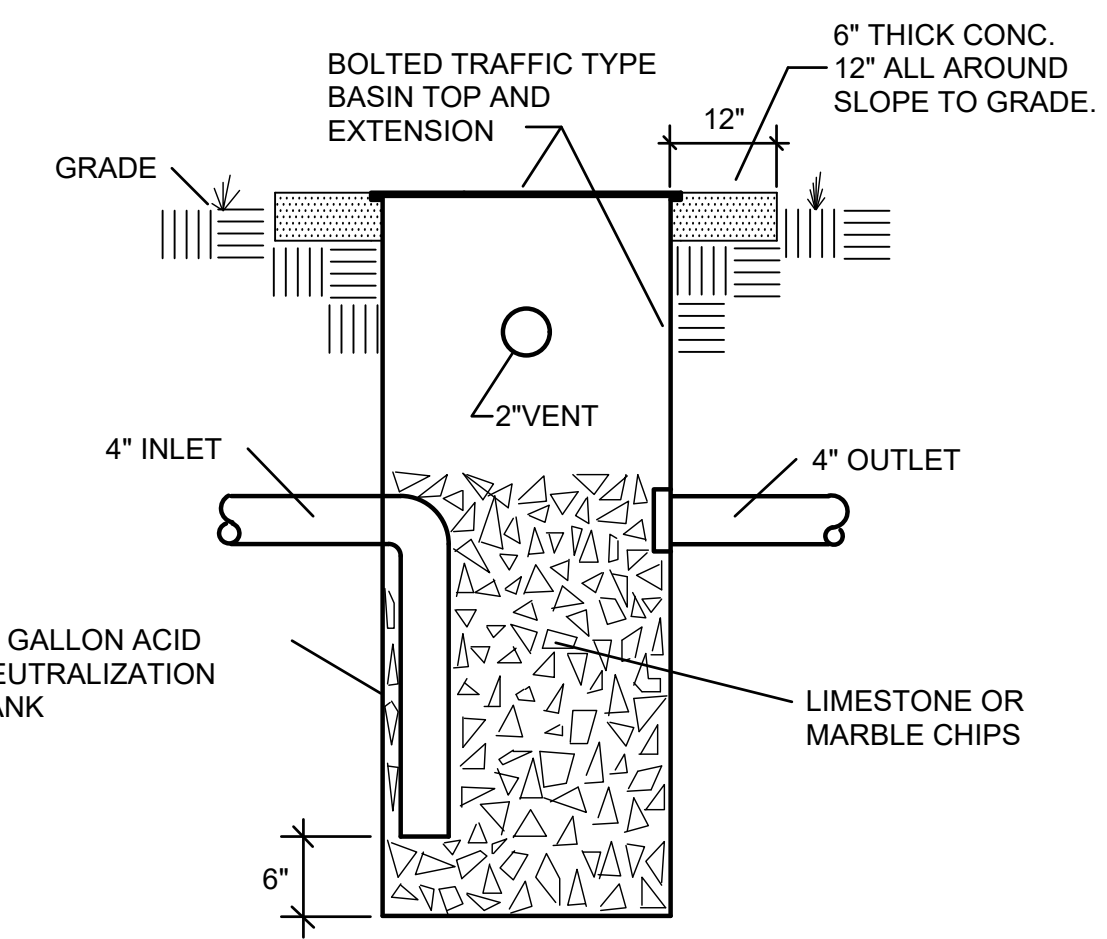


INTERIOR WALL PIPING PENETRATION DETAIL
NOT TO SCALE

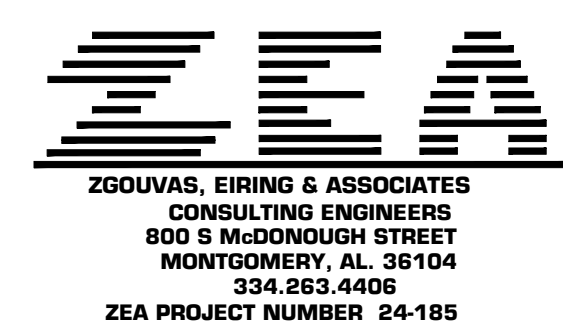
- NOTES:
- SEE SPEC SECTION 15010 FOR FIRESTOP AND SLEEVE REQUIREMENTS
 - DETAIL APPLIES TO ALL WATER, WASTE AND VENT PIPING.
 - ONLY ONE PIPE PER ASSEMBLY ALLOWED.
 - WHERE PIPING IS EXPOSED IN FINISHED AREAS, PROVIDE ESCUTCHEONS OVER PENETRATIONS AND DELETE REQUIREMENT FOR EXTENDING OF THE FIRESTOP ASSEMBLY 1" ON EACH SIDE OF THE PARTITION. DO NOT USE SPLIT TYPE ESCUTCHEONS NOR SPLIT TYPE SLEEVES.

GENERAL PLUMBING NOTES

- ROUGH IN WATER CLOSET AND URINAL FLUSH VALVE SO THAT THE FLUSH TUBE IS VERTICALLY STRAIGHT.
- ADA FIXTURES AND INSTALLATION SHALL COMPLY WITH CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
- FLUSH VALVE HANDLE FOR ALL MANUAL FLUSH WATER CLOSETS SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AS REQUIRED BY CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
- ROUGH-IN ADA WATER CLOSETS 18" FROM FINISHED WALL TO CENTERLINE OF THE WATER CLOSET. MEASURE FROM FACE OF SHORT SIDE OF THE STALL TO THE FINISHED WALL.
- PROVIDE A CAST IRON DEEP SEAL P-TRAP FOR EACH FLOOR DRAIN AND HUB DRAIN WITH TRAP PRIMER AS SPECIFIED.
- ROUTE ALL OVERHEAD WATER PIPING AND WATER PIPING WITHIN NON-MASONRY WALLS WITHIN THE BUILDING INSULATION ENVELOPE.
- ALL WATER PIPING WITHIN MASONRY WALLS SHALL BE INSULATED AS SPECIFIED.
- ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR (WARM) SIDE OF THE BUILDING EXTERIOR WALL INSULATION.
- COORDINATE ALL PIPING RUNS WITH THE ELECTRICAL PLANS AND THE ELECTRICAL CONTRACTOR. DO NOT ROUTE ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEAR, ETC. MAINTAIN CLEARANCES AS REQUIRED BY RESPECTIVE CODES.
- ALL PIPING AND FITTINGS ROUTED IN THROUGH RETURN AIR PLENUMS, RETURN AIR PLATFORMS, OR WITHIN FIRE RATED PARTITIONS AND ENCLOSURES SHALL BE CAST IRON OR PVDF PIPING. SEE SPECS.
- PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10'-0" DISTANCE FROM ALL HVAC OUTSIDE AIR INTAKES.
- PROVIDE A READILY ACCESSIBLE CLEANOUT AT OR NEAR THE BASE OF EACH WASTE AND VENT STACK PER INTERNATIONAL PLUMBING CODE AND THE SPECIFICATIONS. CLEANOUTS SHALL BE HIGH ENOUGH TO CLEAR THE TILE BASE WITHOUT CUTTING OF THE BASE AND SHALL BE LOCATED WITHIN THE SPECIFIED PIPING ENCLOSURE FOR ALL WALL MOUNTED LAVATORIES AND WALL MOUNTED HAND SINKS WHEN POSSIBLE.
- LOCATE CLEANOUTS TO THE SIDE OF THE WATER CLOSETS WITH A MINIMUM CLEARANCE OF 6" FROM THE ROUGH-IN OF THE WATER CLOSETS. PREFERRED LOCATION IS IN ADA STALL TO ALLOW FOR ADDITIONAL ACCESS SPACE.
- WATER SUPPLY SYSTEM IS DESIGNED FOR A STATIC PRESSURE OF 50 TO 75 PSI. GAUGE WATER SUPPLY PRESSURE AND VERIFY PRESSURE IS WITHIN THE SPECIFIED LIMITS. PROVIDE WATER PRESSURE REDUCING VALVE AS REQUIRED TO MAINTAIN WATER PRESSURE WITHIN DESIGN LIMITS.
- PROVIDE A BALL VALVE ON ONE SIDE OF EVERY DIELECTRIC UNION AS REQUIRED TO FACILITATE ITS REMOVAL.
- TOPS OF ALL OUTSIDE CLEANOUTS SHALL BE FLAT AND BROUGHT TO GRADE AND FINISHED FLUSH IN 12x12x12 CONCRETE PAD.
- ALL INTERIOR AND EXTERIOR WALL HYDRANTS AND HOSE BIBBS SHALL BE LOCATED 24" A.F.F. COORDINATE FINAL HEIGHT OF INDOOR WALL HYDRANTS WITH ARCHITECTURAL CABINET PLANS PRIOR TO ROUGHING IN.
- WATER HAMMER ARRESTORS SHALL BE INSTALLED AT ALL SOLENOID, REMOTE OPERATED OR QUICK CLOSING VALVES AND AT EACH PLUMBING FIXTURE OR BATTERY OF PLUMBING FIXTURES. SEE SPECS FOR ADDITIONAL REQUIREMENTS.
- ALL HUB DRAINS THAT RISE THROUGH RETURN AIR PLATFORMS SHALL BE INSULATED CAST IRON AND SHALL BE TERMINATED 6" ABOVE THE RETURN AIR PLATFORM AND SEALED AIR TIGHT. COORDINATE REQUIREMENT WITH MECHANICAL CONTRACTOR.
- ALL PIPING WITH VALVES AND OTHER ITEMS THAT MAY REQUIRE MAINTENANCE, SERVICE OR REPLACEMENT, SHALL BE LOCATED NO MORE THAN 12" ABOVE THE FINISHED CEILING AND NO MORE THAN 14'-0" ABOVE FINISH FLOOR IN AREAS WITHOUT CEILINGS, TO ENSURE PROPER ACCESS. PROVIDE DROPS IN PIPING AS REQUIRED FOR COMPLIANCE.
- EXTREME CARE SHALL BE TAKEN WHEN ROUGHING IN CLEANOUTS AT EACH WALL MOUNTED LAVATORY AND HAND SINK. CLEANOUTS SHALL BE LOCATED WITHIN THE SPECIFIED LAY SHIELD PIPING COVER WHENEVER POSSIBLE.
- ALL CLEANOUTS SHALL BE ROUGHED IN HIGH ENOUGH TO CLEAR THE ARCHITECTURAL BASE MOLDING WITHOUT CUTTING THE BASE MOLDING.
- COORDINATE ALL LAB CLASSROOM WALL MOUNTED DEVICES WITH LAB PLANS AND ADJUST AS REQUIRED.



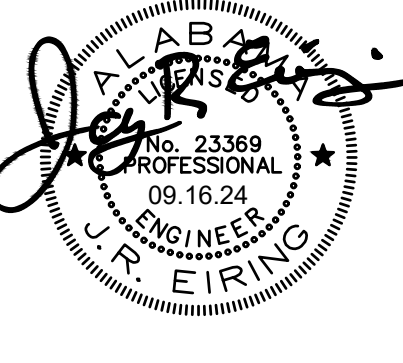
ACID NEUTRALIZATION TANK DETAIL
NO SCALE



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SHEET TITLE : PLBG. SCHEDULES, NOTES AND DETAILS

MCKEE JOB # : 22-315

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

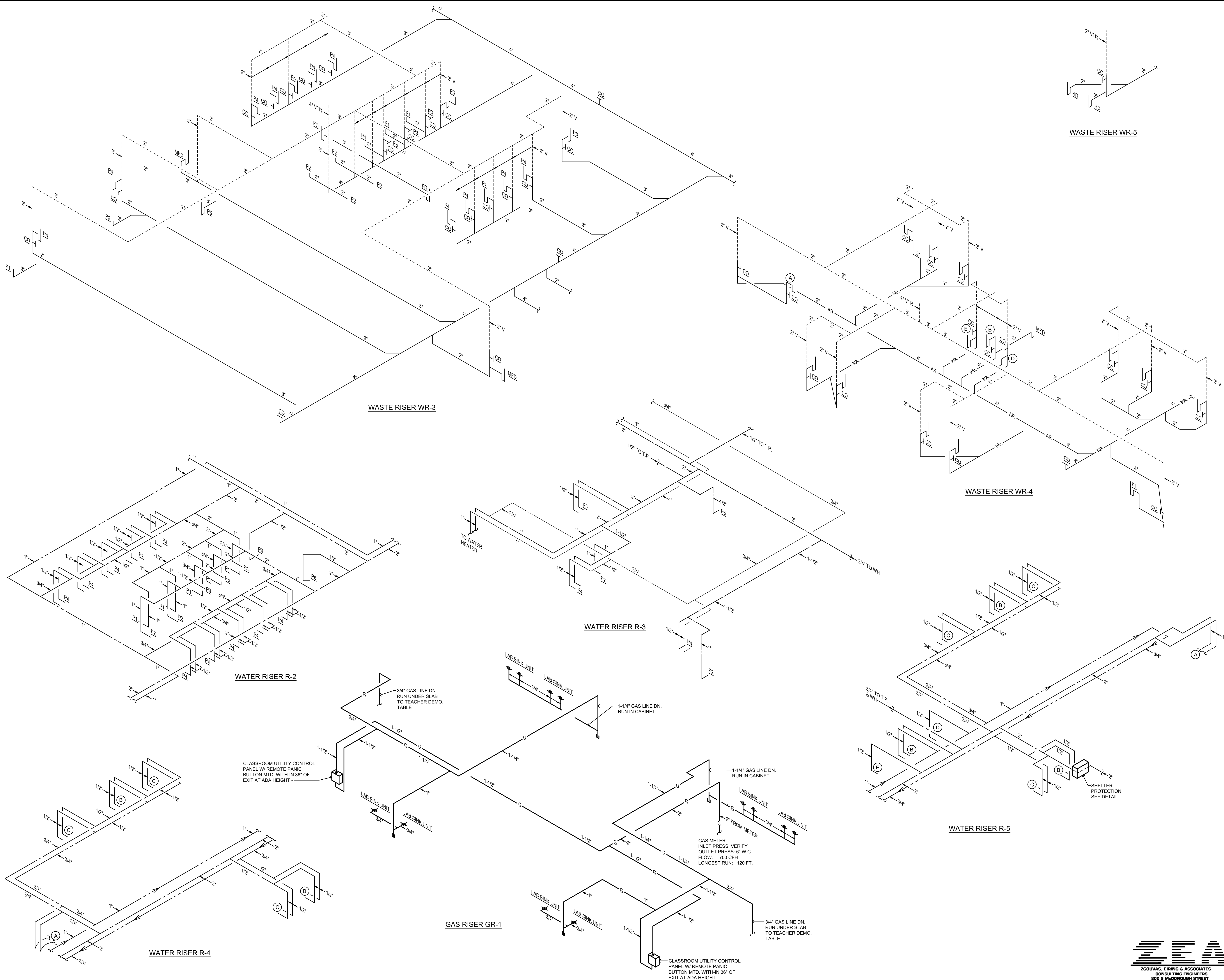
DATE : 08.27.2024

REVISED DATE :

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SHEET NO. : **P1.0**



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SHEET TITLE : PLBG. RISERS

MCKEE JOB # : 22-315

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 08.27.2024

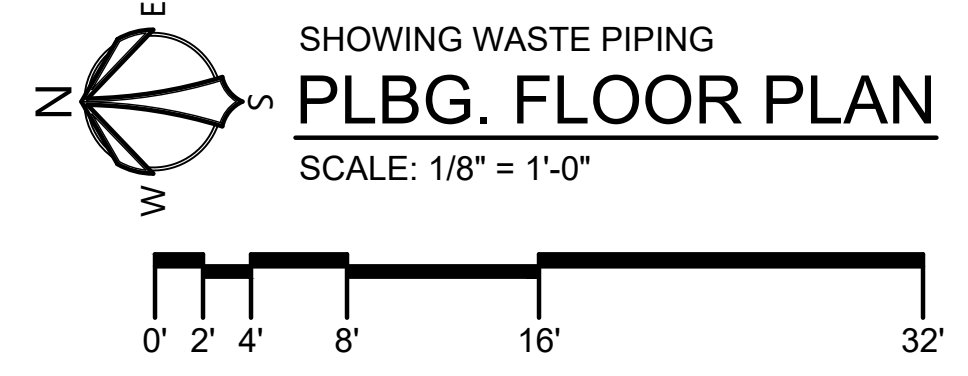
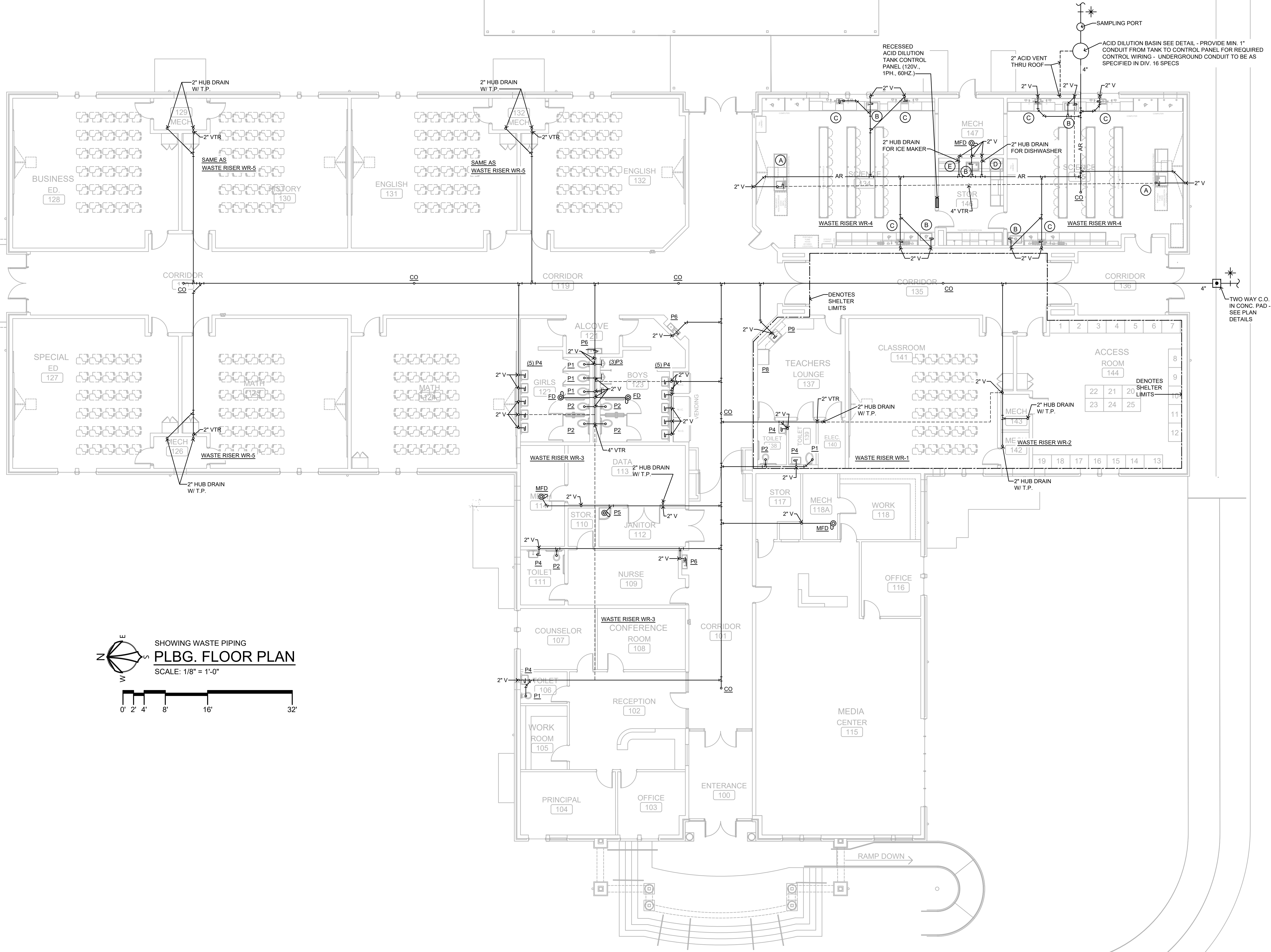
REVISED DATE :

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SHOWING WASTE PIPING
PLBG. FLOOR PLAN
 SCALE: 1/8" = 1'-0"

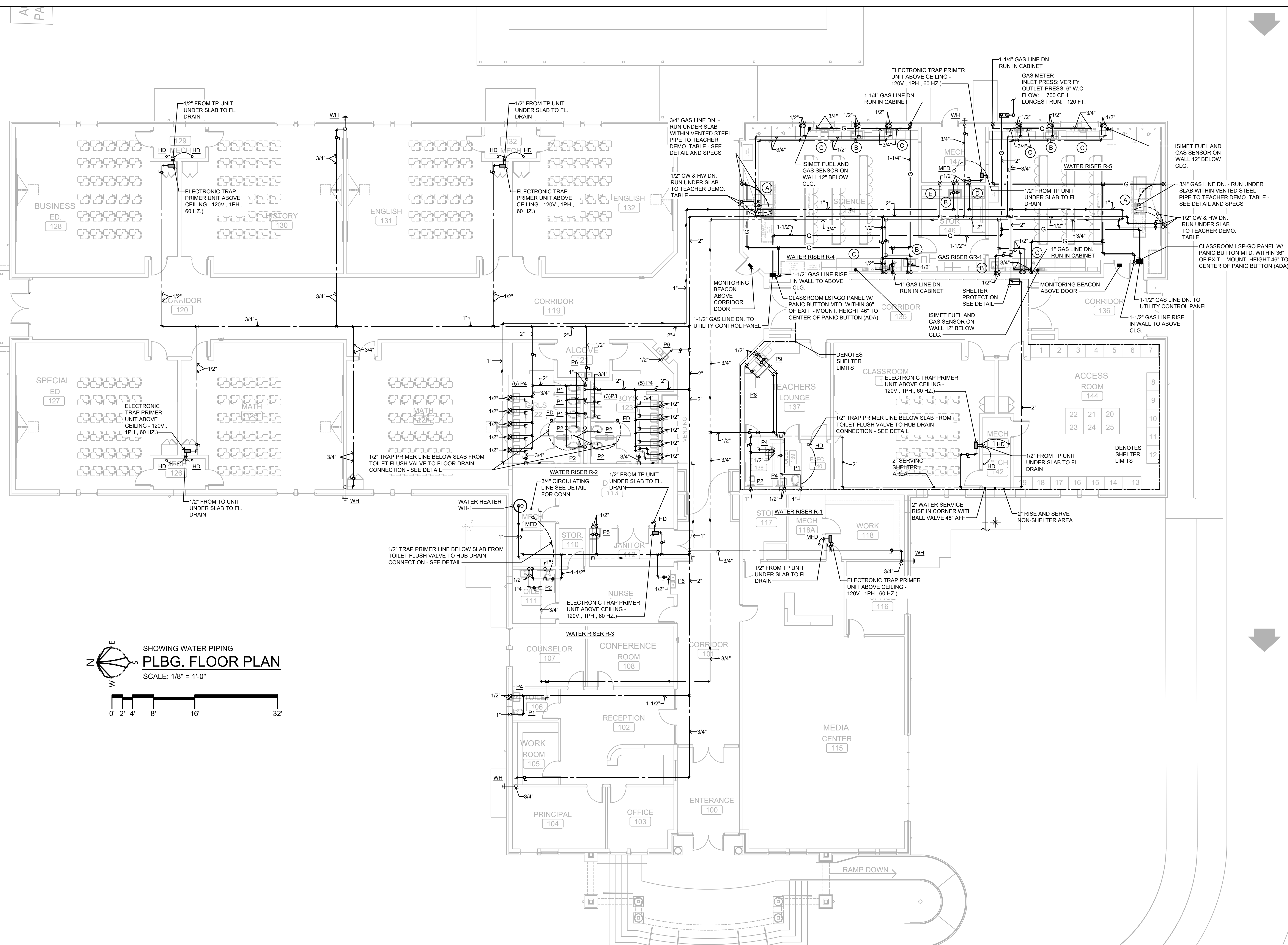
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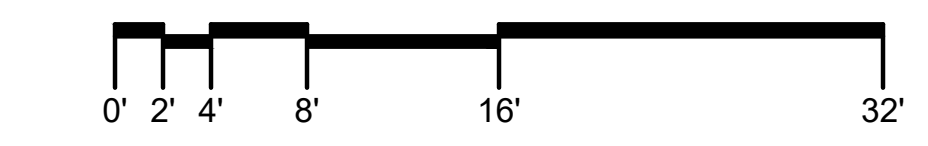


SHEET TITLE : PLBG. FLOOR PLAN - WASTE PIPING
 MCKEE JOB # : 22-315
 DRAWN BY : C. WARD
 CHECKED BY : T. ZGOUVAS
 DATE : 08.27.2024
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SHOWING WATER PIPING
PLBG. FLOOR PLAN
 SCALE: 1/8" = 1'-0"



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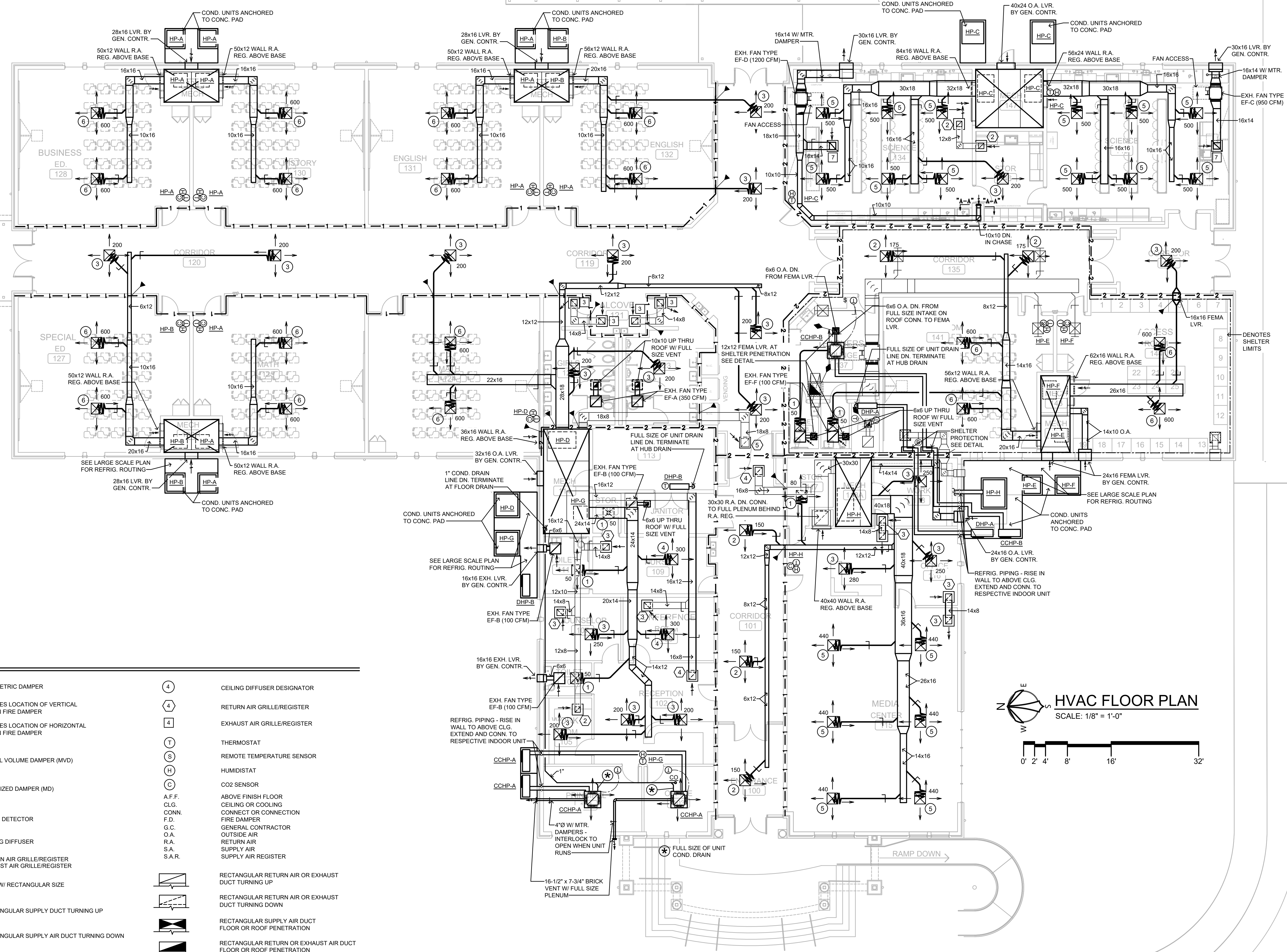


SHEET TITLE : PLBG. FLOOR PLAN - WATER PIPING
 MCKEE JOB # : 22-315
 DRAWN BY : C. WARD
 CHECKED BY : T. ZGOUVAS
 DATE : 08.27.2024
 REVISED DATE :
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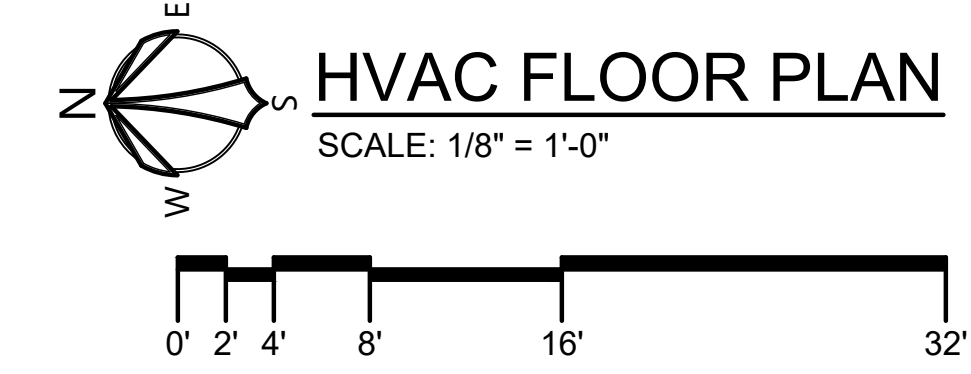
SHEET NO. : **P2.1**

AC PAD



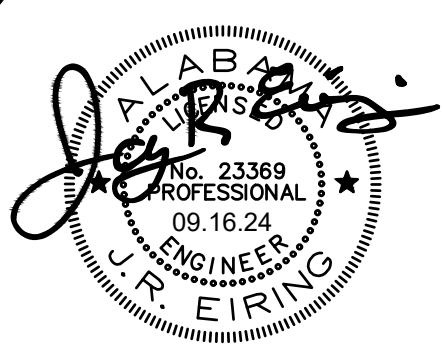
LEGEND

- BAROMETRIC DAMPER
- DENOTES LOCATION OF VERTICAL ACTION FIRE DAMPER
- DENOTES LOCATION OF HORIZONTAL ACTION FIRE DAMPER
- MANUAL VOLUME DAMPER (MVD)
- MOTORIZED DAMPER (MD)
- SMOKE DETECTOR
- CEILING DIFFUSER
- RETURN AIR GRILLE/REGISTER EXHAUST AIR GRILLE/REGISTER
- DUCT W/ RECTANGULAR SIZE
- RECTANGULAR SUPPLY DUCT TURNING UP
- RECTANGULAR SUPPLY AIR DUCT TURNING DOWN
- CEILING DIFFUSER DESIGNATOR
- RETURN AIR GRILLE/REGISTER
- EXHAUST AIR GRILLE/REGISTER
- THERMOSTAT
- REMOTE TEMPERATURE SENSOR
- HUMIDISTAT
- CO2 SENSOR
- ABOVE FINISH FLOOR
- CEILING OR COOLING CONNECT OR CONNECTION FIRE DAMPER
- G.C. OUTSIDE AIR
- R.A. RETURN AIR
- S.A. SUPPLY AIR
- SUPPLY AIR REGISTER
- RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP
- RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN
- RECTANGULAR SUPPLY AIR DUCT FLOOR OR ROOF PENETRATION
- RECTANGULAR RETURN OR EXHAUST AIR DUCT FLOOR OR ROOF PENETRATION



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SHEET TITLE : HVAC FLOOR PLAN

 MCKEE JOB # : 22-315
 DRAWN BY : C. WARD
 CHECKED BY : T. ZGOUVAS
 DATE : 08.27.2024

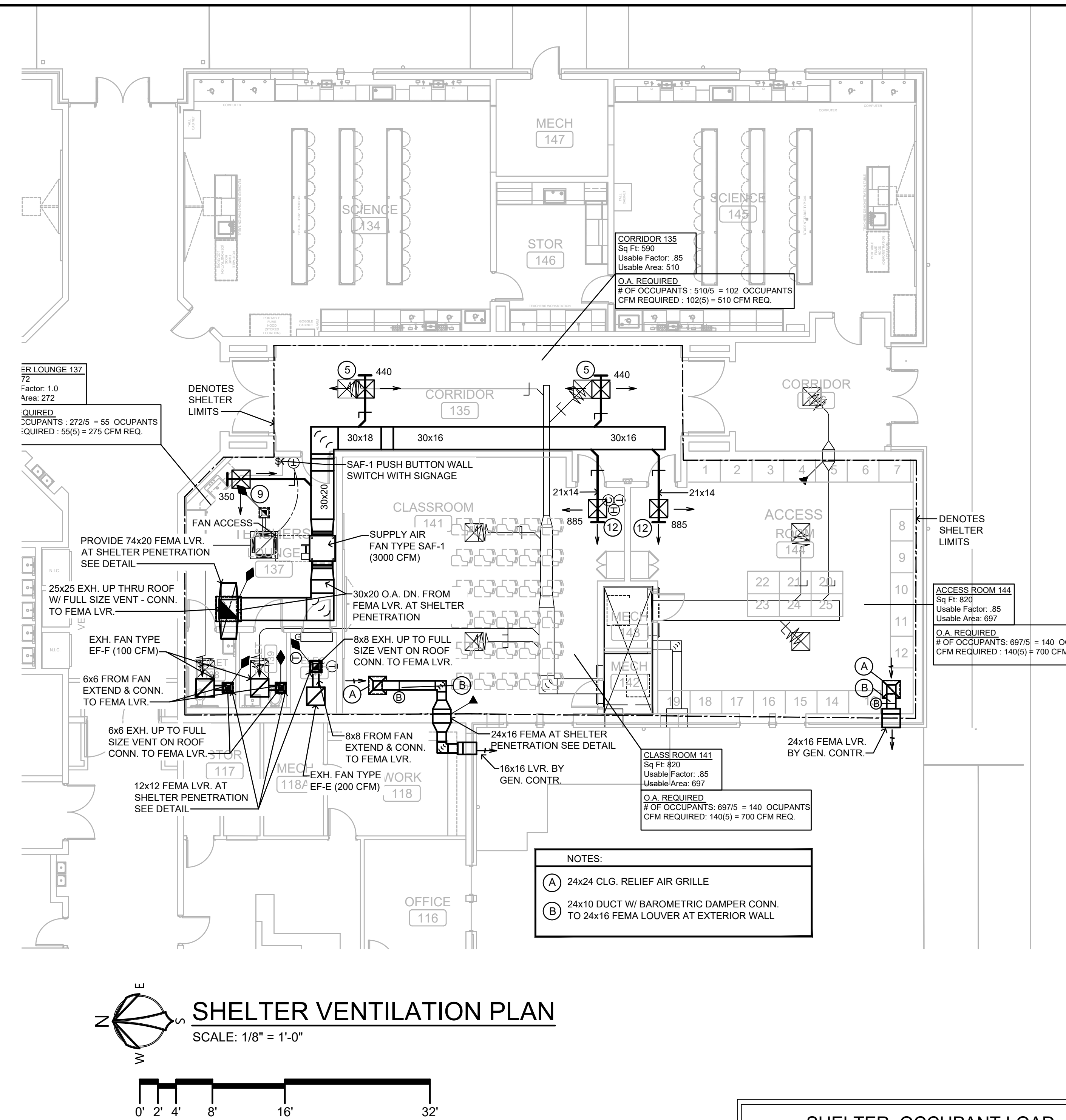
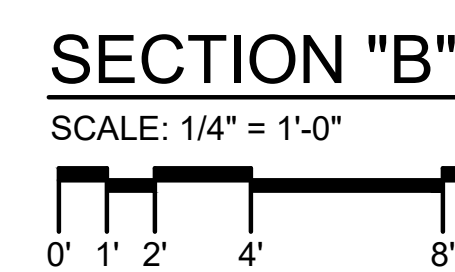
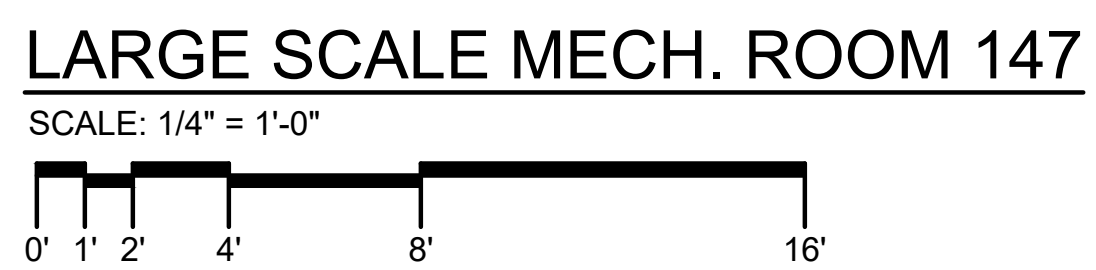
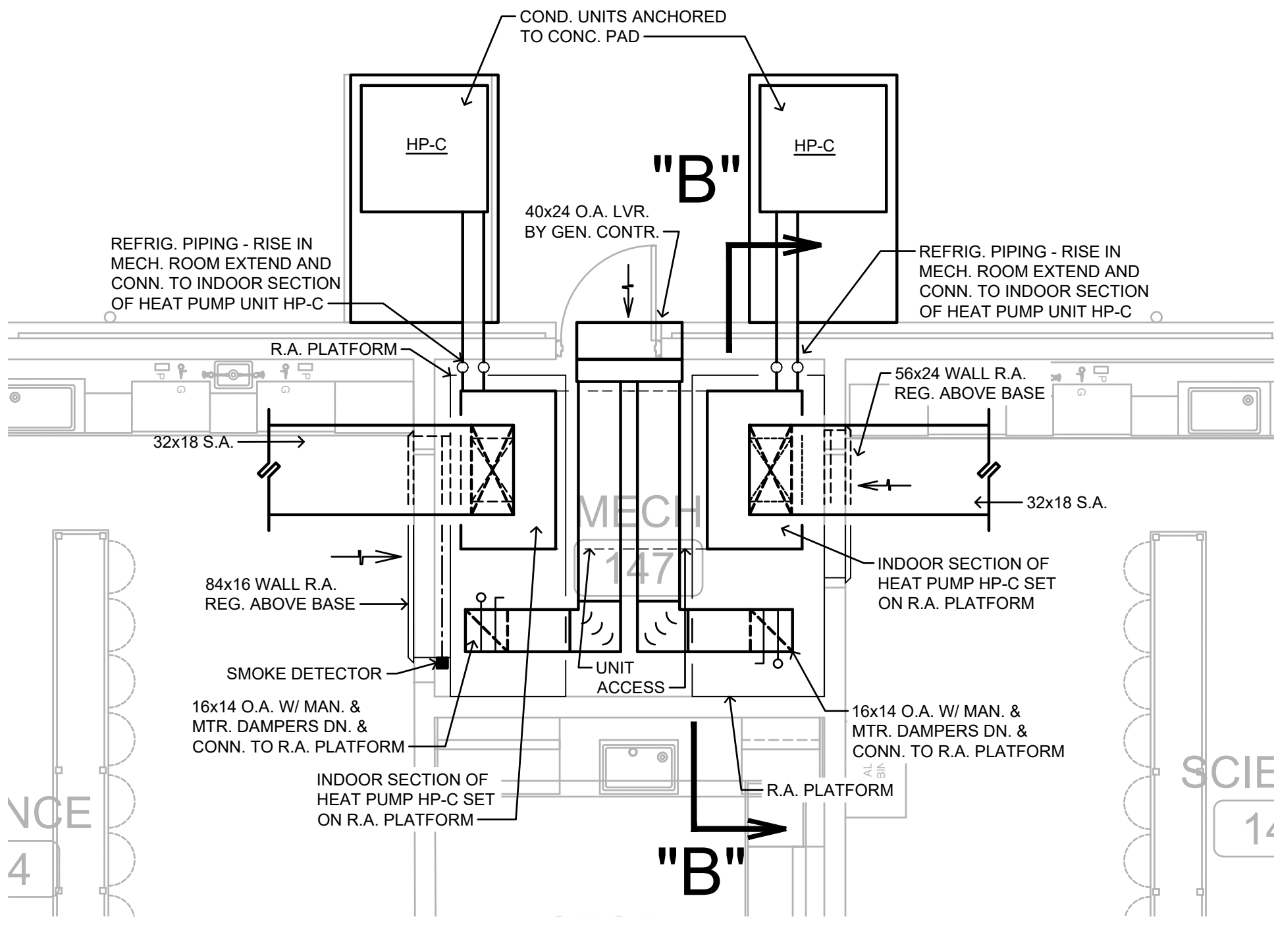
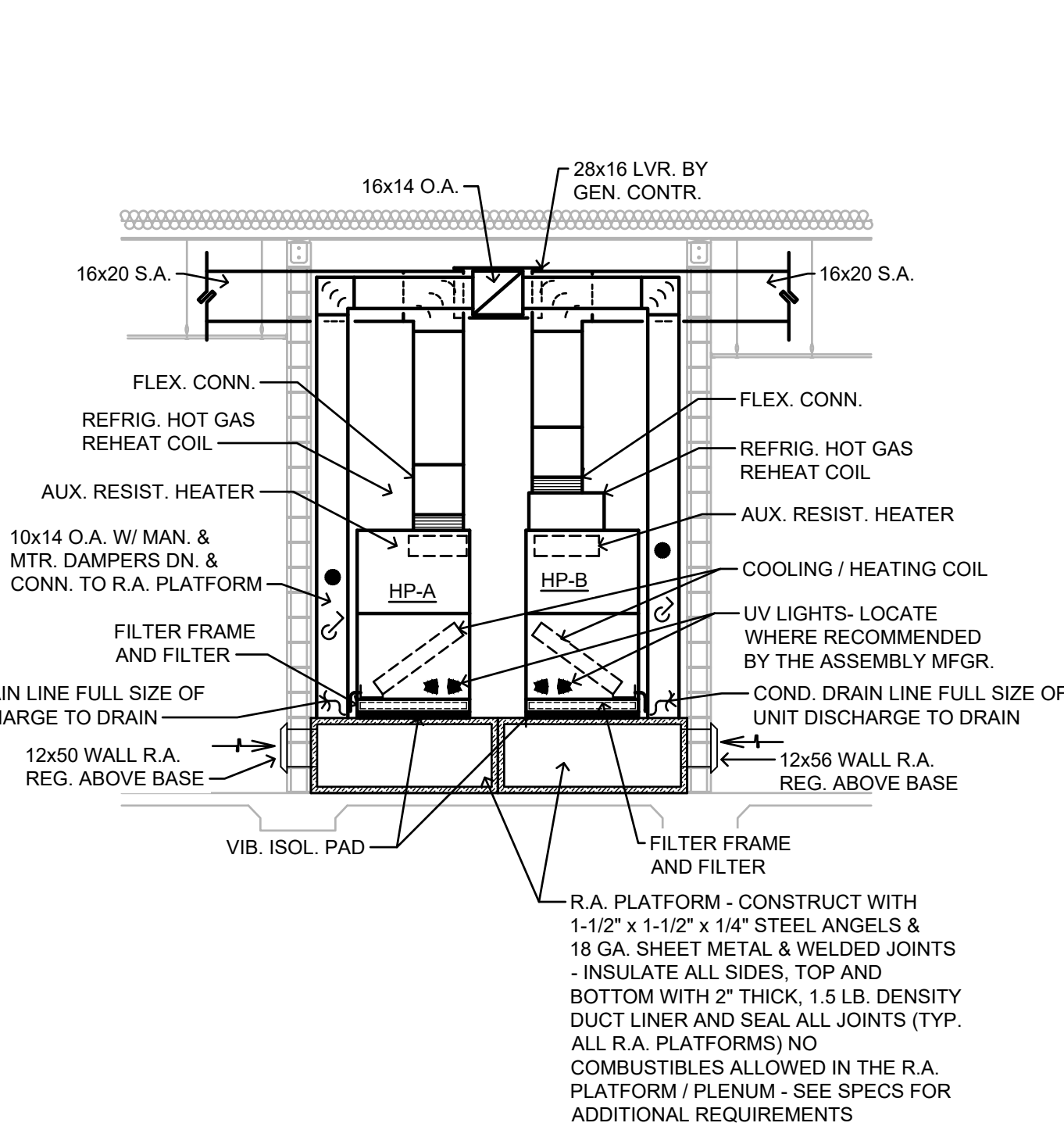
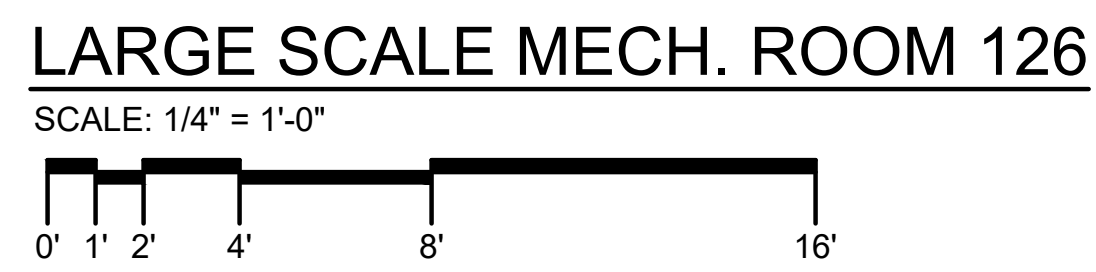
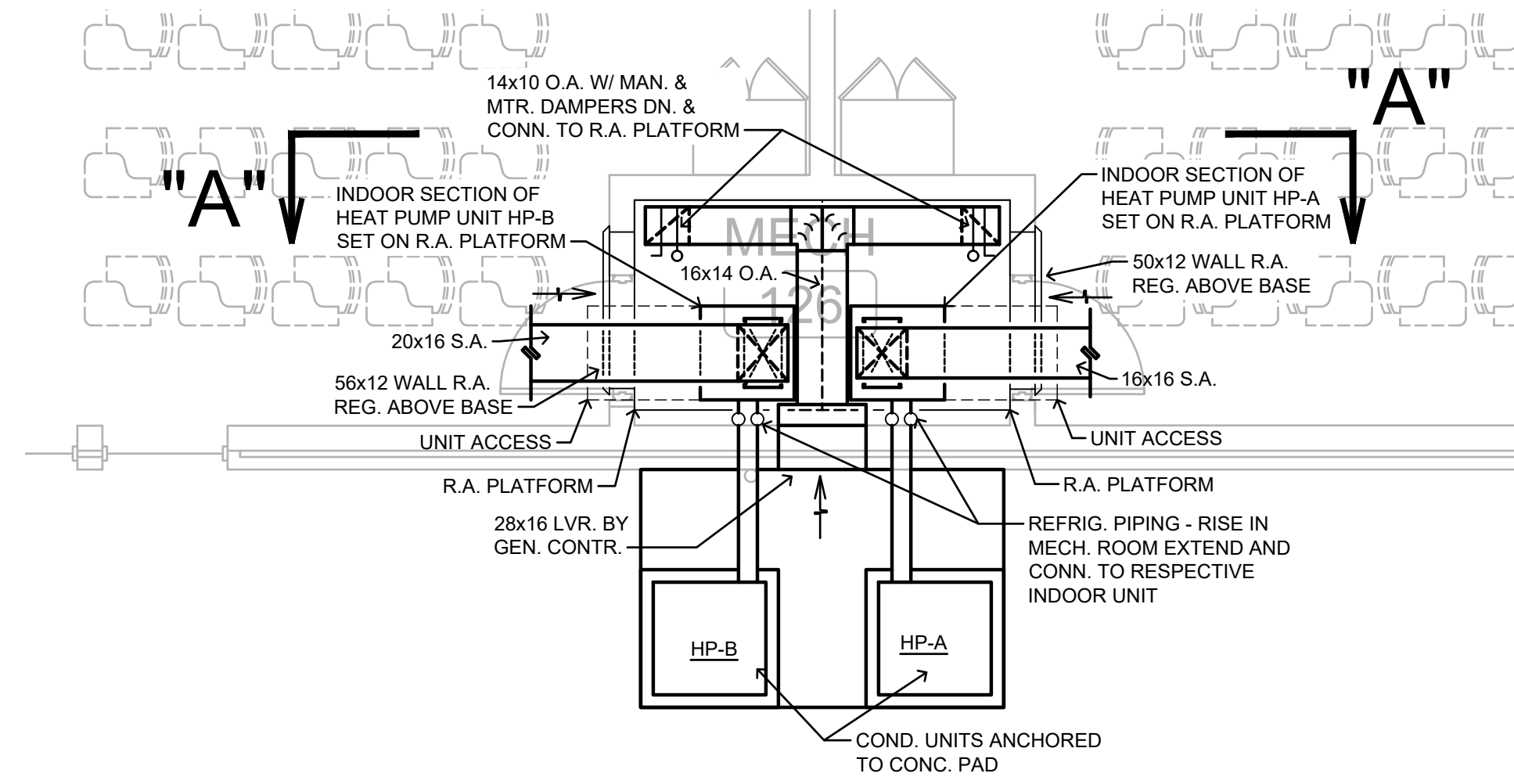
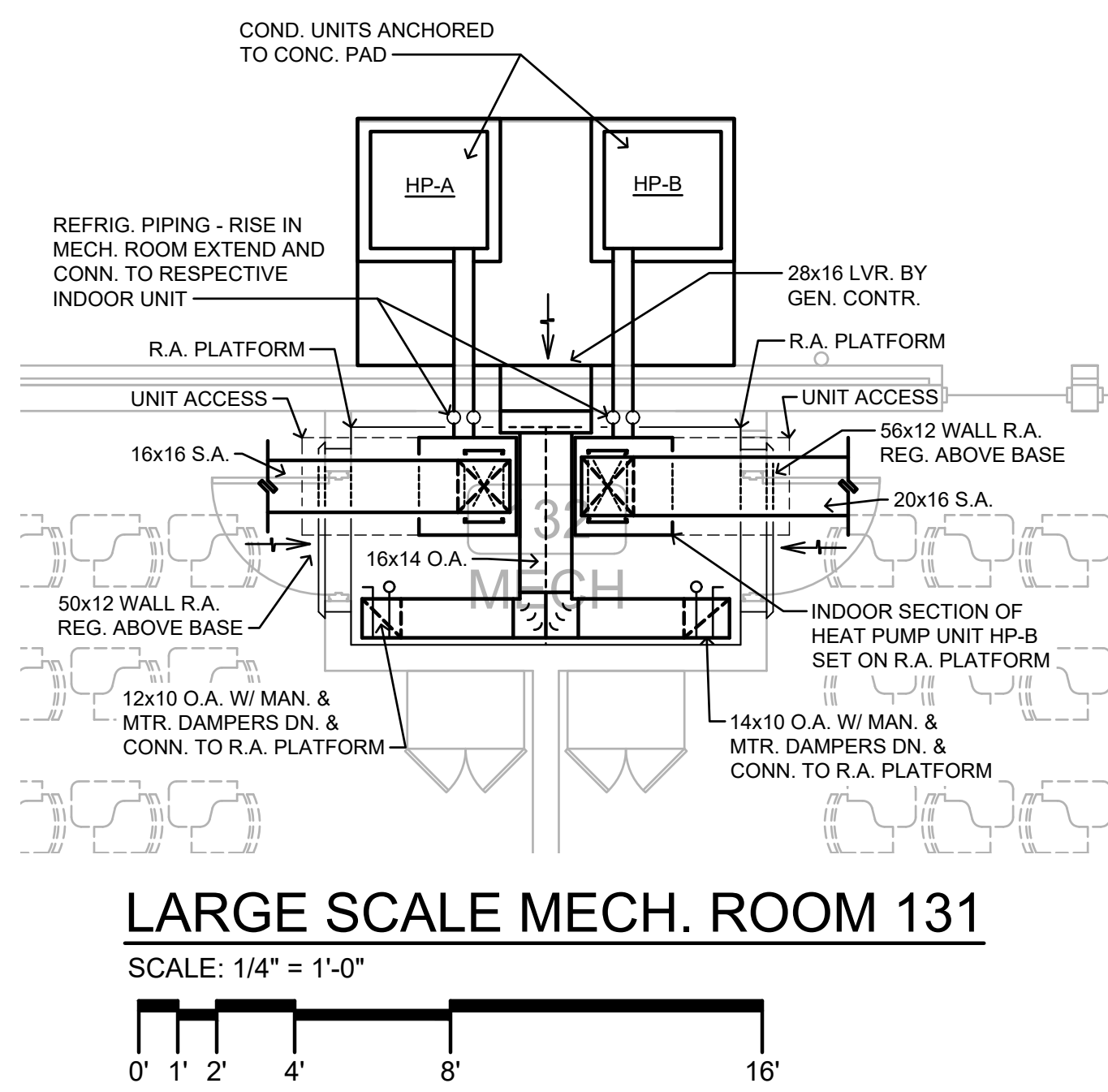
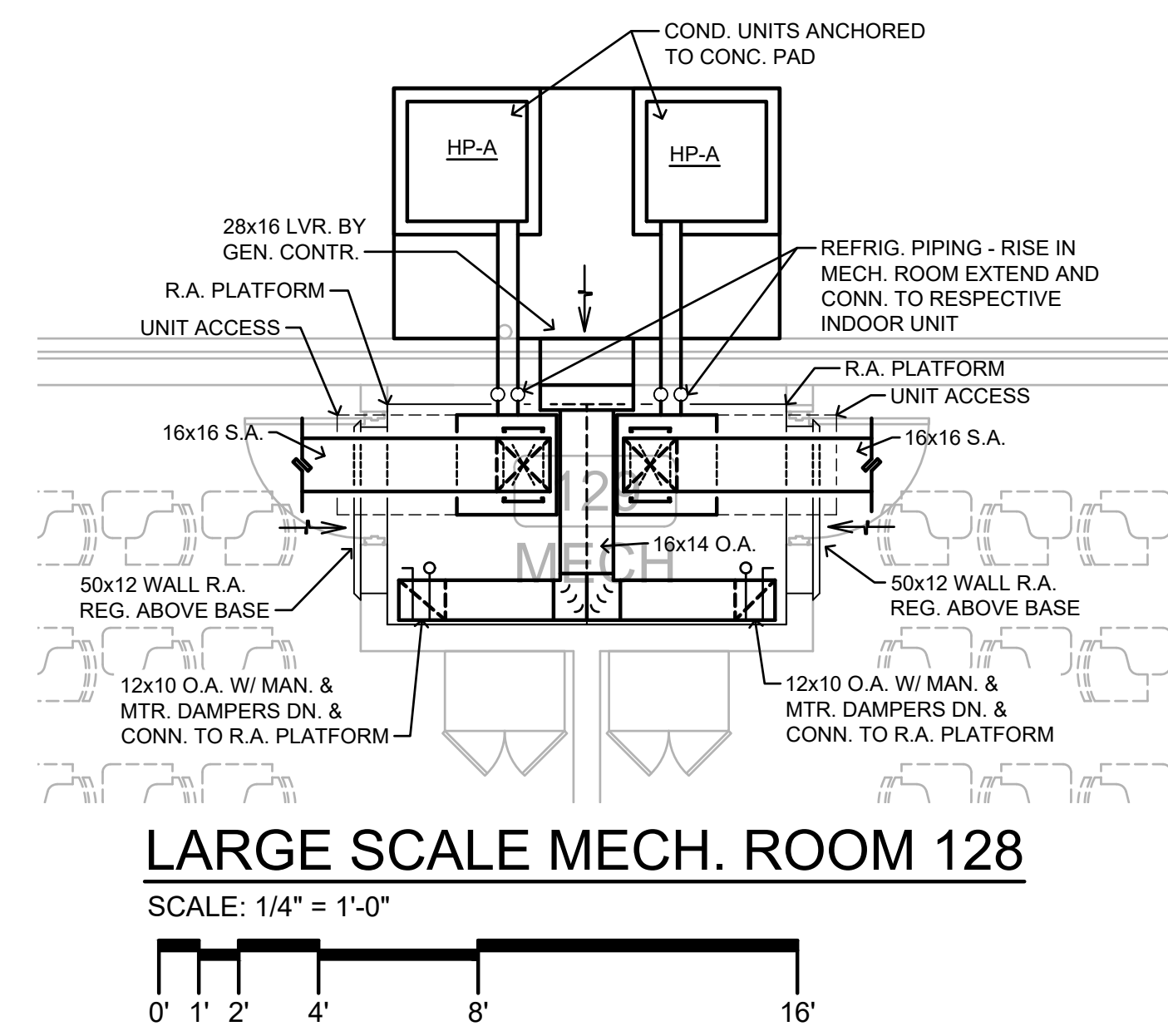
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SHEET NO. : **M1.0**

LEGEND

- BAROMETRIC DAMPER
- DENOTES LOCATION OF VERTICAL ACTION FIRE DAMPER
- DENOTES LOCATION OF HORIZONTAL ACTION FIRE DAMPER
- MANUAL VOLUME DAMPER (MVD)
- MOTORIZED DAMPER (MD)
- SMOKE DETECTOR
- CEILING DIFFUSER
- RETURN AIR GRILLE/REGISTER EXHAUST AIR GRILLE/REGISTER
- DUCT W/ RECTANGULAR SIZE
- RECTANGULAR SUPPLY DUCT TURNING UP
- RECTANGULAR SUPPLY AIR DUCT TURNING DOWN
- CEILING DIFFUSER DESIGNATOR
- RETURN AIR GRILLE/REGISTER
- EXHAUST AIR GRILLE/REGISTER
- THERMOSTAT
- REMOTE TEMPERATURE SENSOR
- HUMIDISTAT
- CO2 SENSOR
- ABOVE FINISH FLOOR CEILING OR COOLING CONNECT OR CONNECTION FIRE DAMPER
- GENERAL CONTRACTOR OUTSIDE AIR RETURN AIR SUPPLY AIR SUPPLY AIR REGISTER
- RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP
- RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN
- RECTANGULAR SUPPLY AIR DUCT FLOOR OR ROOF PENETRATION
- RECTANGULAR RETURN OR EXHAUST AIR DUCT FLOOR OR ROOF PENETRATION



- NOTES:**
- (A) 24x24 CLG. RELIEF AIR GRILLE
 - (B) 24x10 DUCT W/ BAROMETRIC DAMPER CONN. TO 24x16 FEMA LOUVER AT EXTERIOR WALL

SHELTER OCCUPANT LOAD

TORNADO SHELTER USABLE AREA

USABLE TORNADO SHELTER AREA CALCULATIONS

SHELTER SPACE	SQ. FT.	USABLE REDUCTION FACTOR	USABLE SQ. FT. EACH
CLASSROOMS	1629	0.85	--
CORRIDOR 101A	584	1	
TEACHERS LOUNGE	272	1	
TOTAL USABLE AREA			

TORNADO SHELTER DESIGN OCCUPANT CAPACITY (ICC 900, TABLE 903.2)

TORNADO SHELTER DESIGN OCCUPANT CAPACITY BETWEEN 1 and 100 OCCUPANTS WILL REQUIRE 2 WHEELCHAIR SPACES (502.3)

SPACE FOR WHEELCHAIR OCCUPANTS: 2 x 10 SQ. FT. = 20 SQ. FT.

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SHEET TITLE: SHELTER VENTILATION PLAN & LARGE SCALE MECH. RMS. & SECTIONS

MCKEE JOB #: 22-315

DRAWN BY: C. WARD

CHECKED BY: T. ZGOUVAS

DATE: 08.27.2024

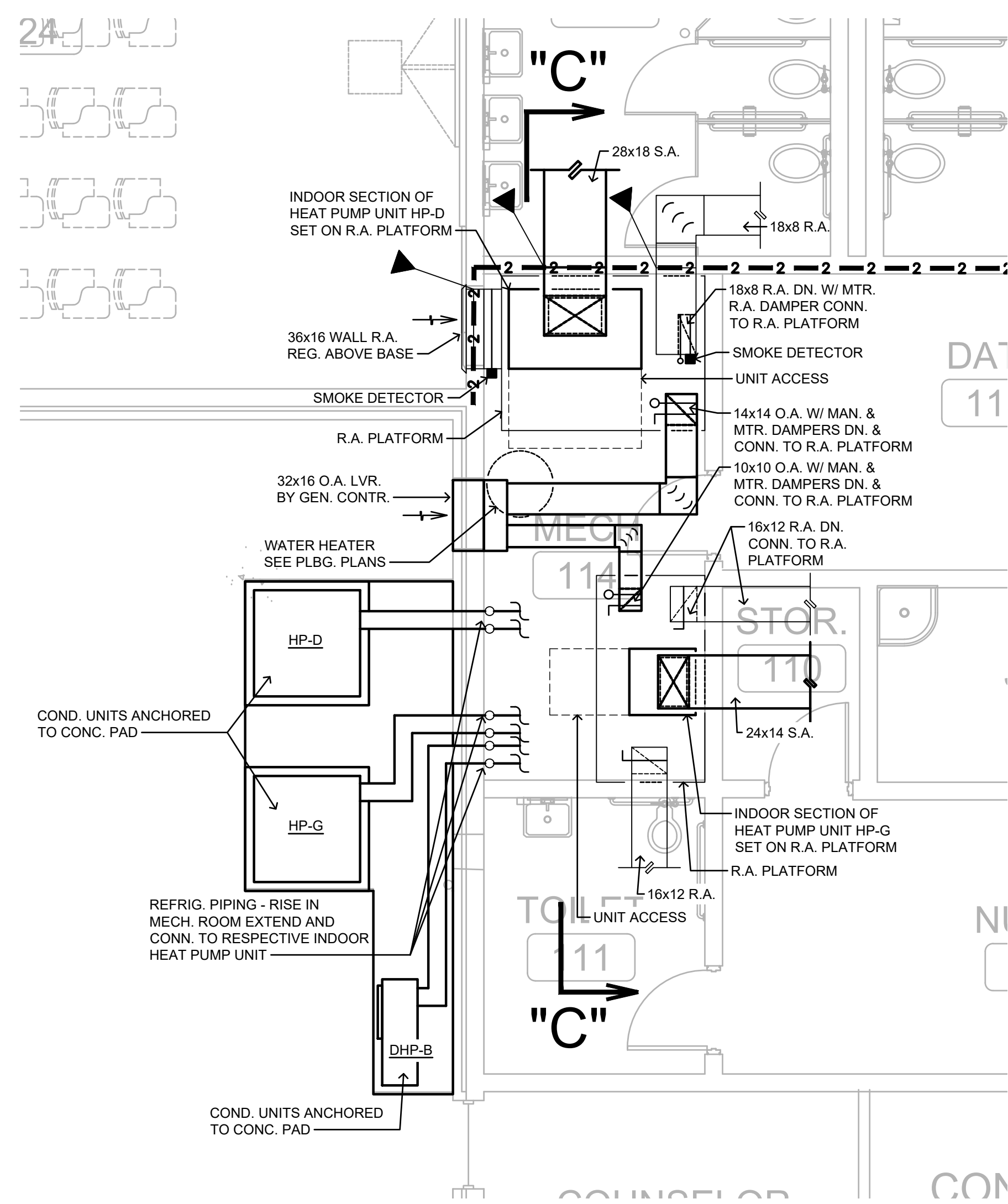
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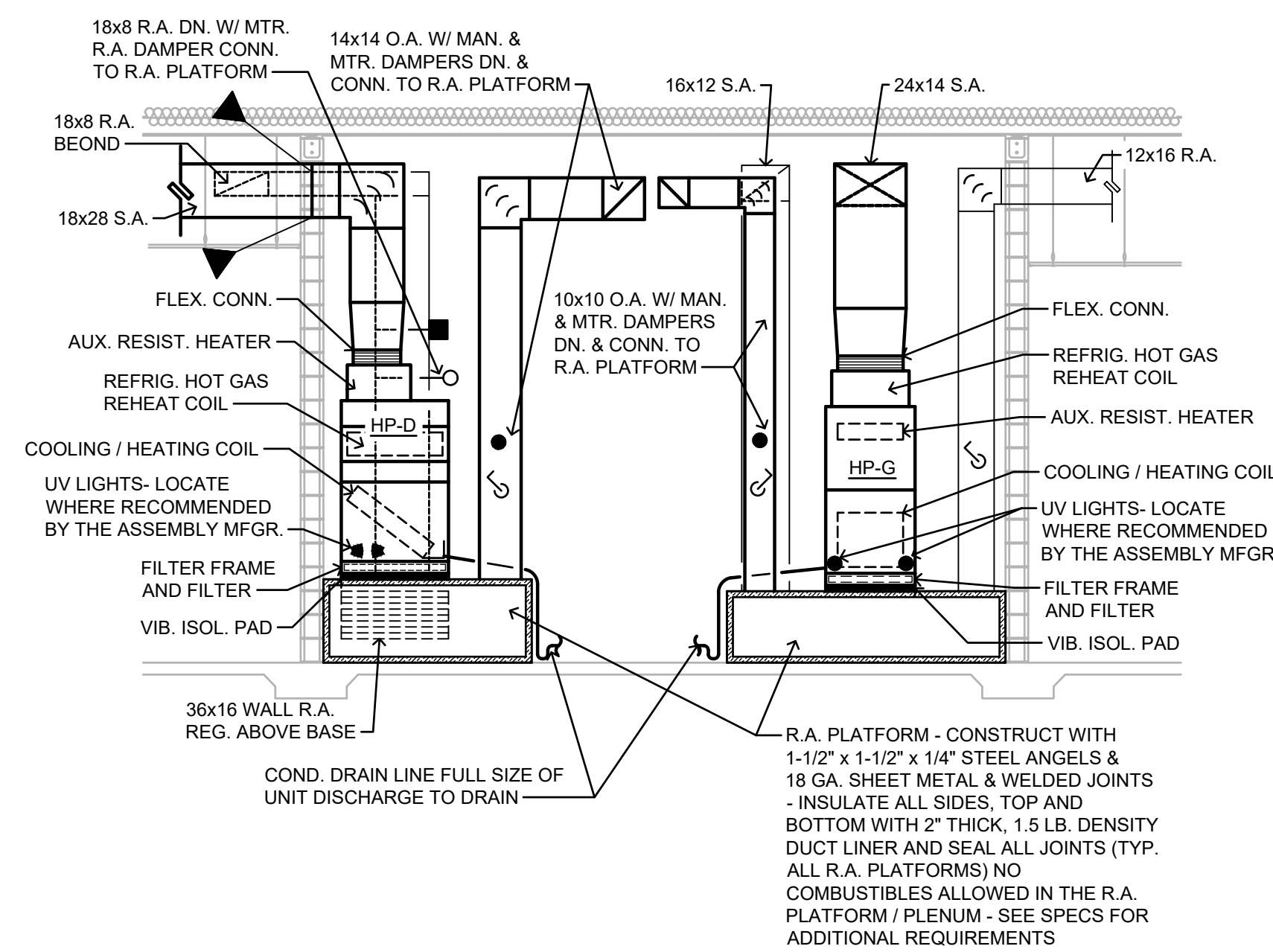
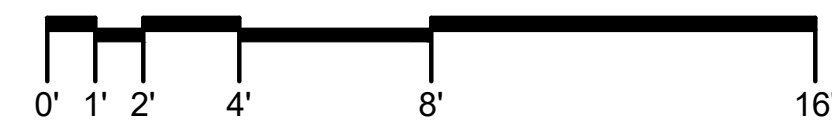


SHEET NO.: **M1.1**



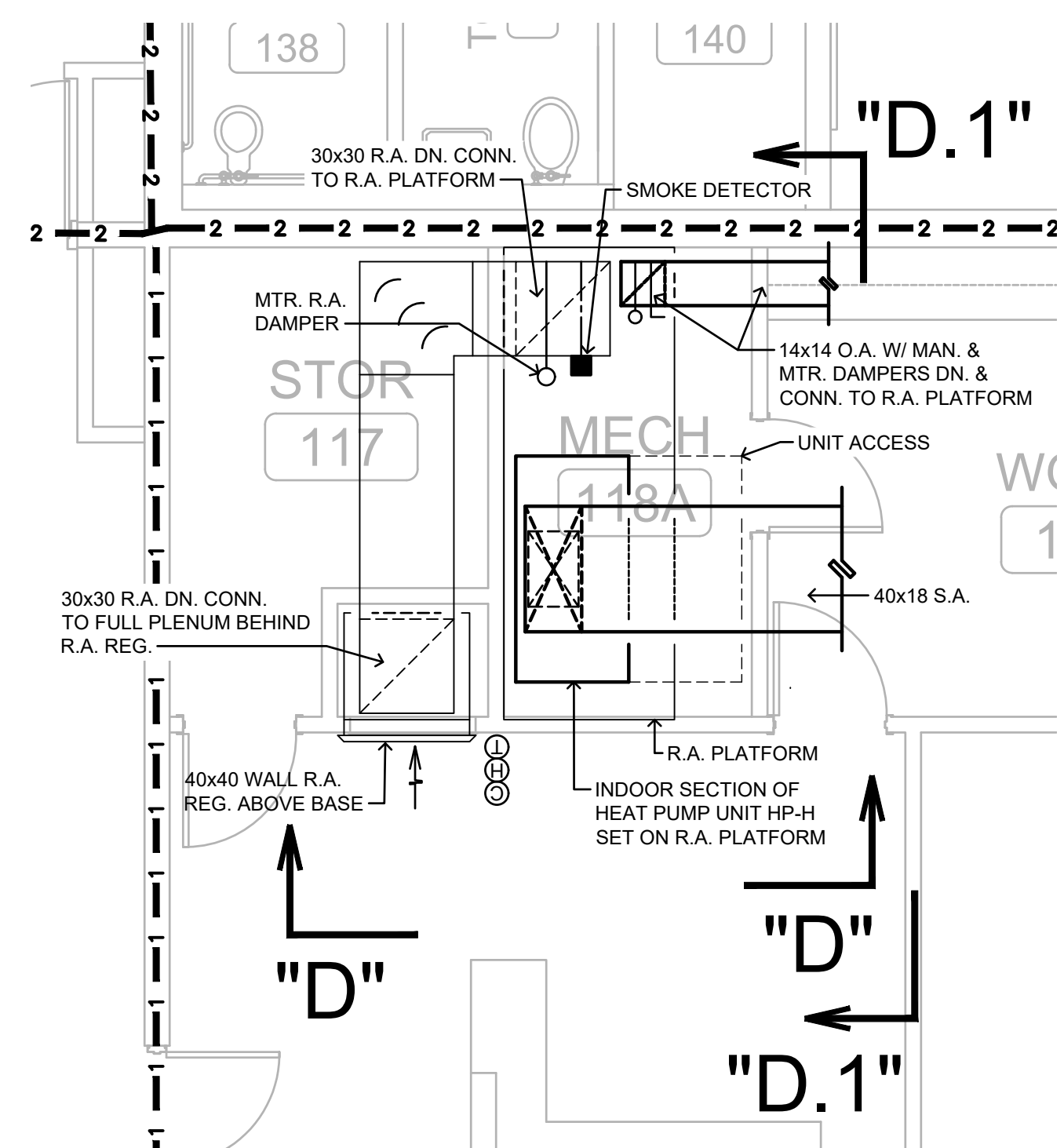
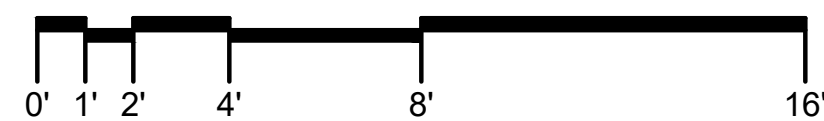
LARGE SCALE MECH. ROOM 118A

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



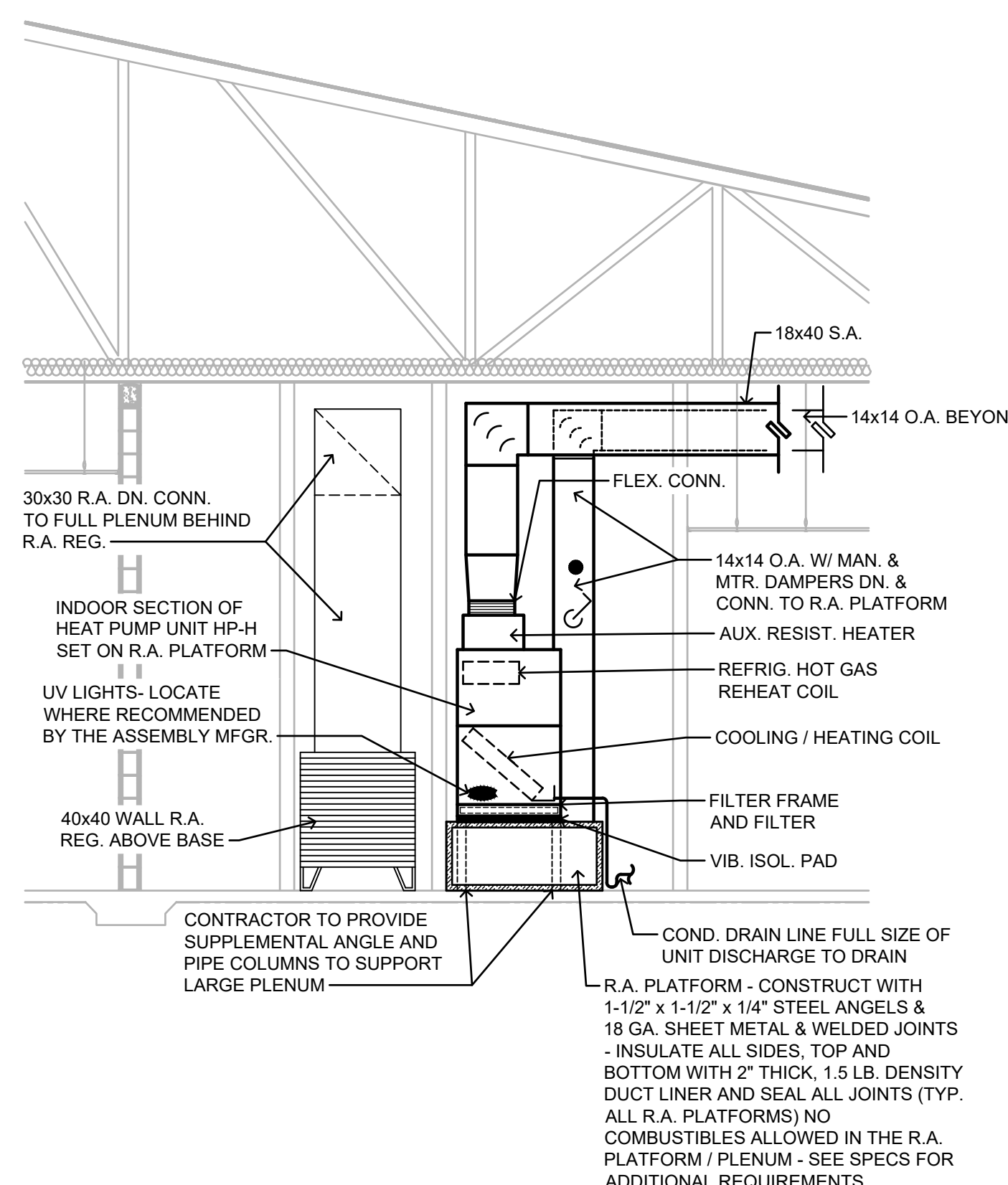
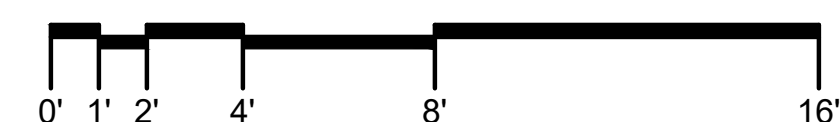
SECTION "C"

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



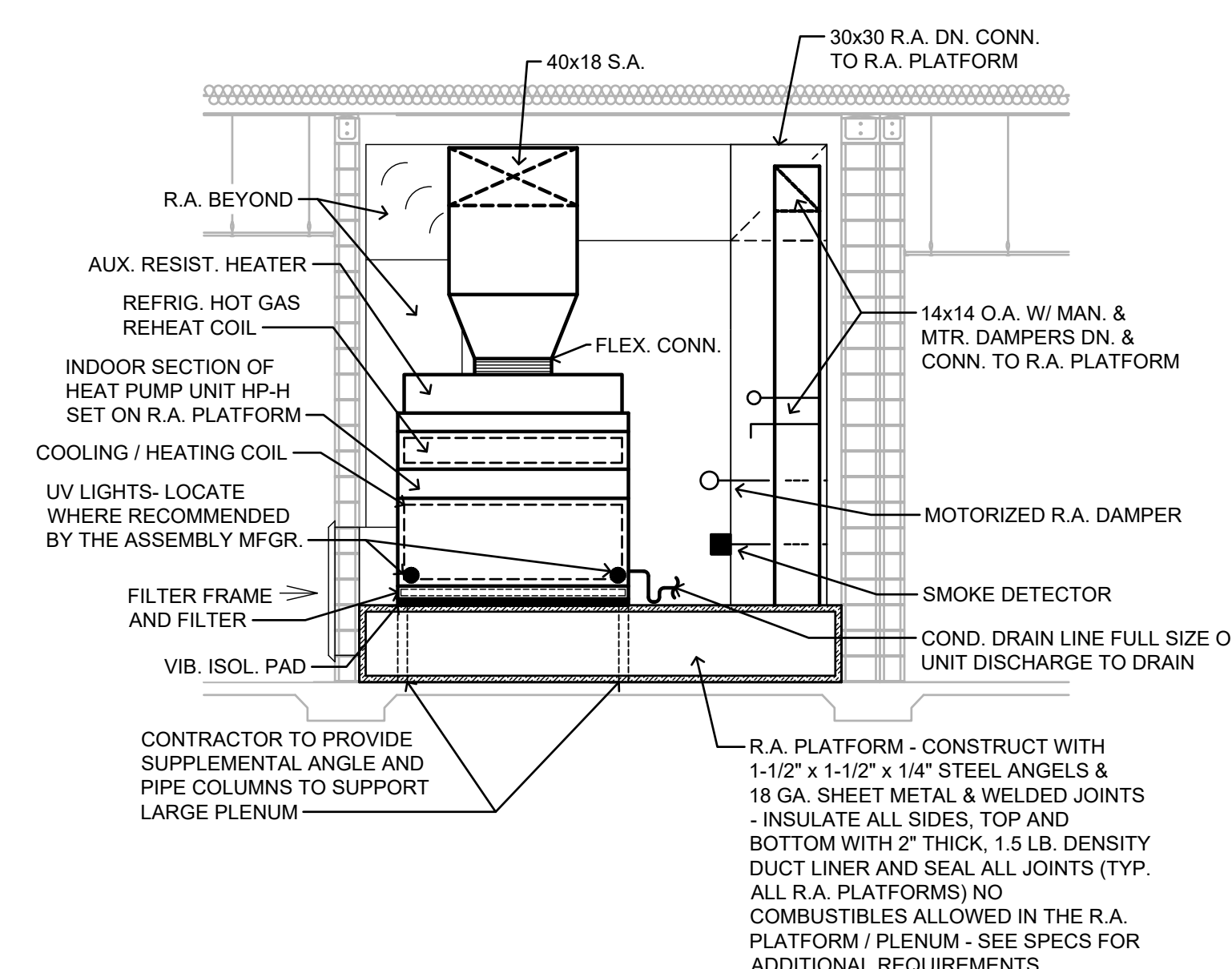
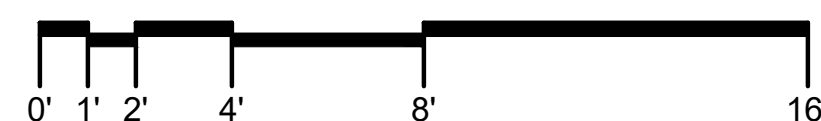
LARGE SCALE MECH. ROOM 118A

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



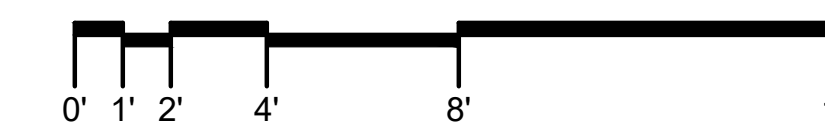
SECTION "D"

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



SECTION "D.1"

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



HVAC CONTROLS SEQUENCES OF OPERATION

UNITS WITHOUT DEMAND CONTROL VENTILATION ARE SIMILAR. THE CONTROL CIRCUIT FOR EACH UNIT SHALL BE ENERGIZED BY ITS RESPECTIVE 7-DAY PROGRAMMABLE THERMOSTAT. OCCUPIED AND UNOCCUPIED SCHEDULES SHALL BE PROGRAMMED BY THE CONTROLS/MECHANICAL CONTRACTOR AS DESIRED BY THE OWNER.

THERMOSTAT SHALL BE USED TO CONTROL HEATING AND COOLING. PROVIDE FOR EACH HEAT PUMP UNIT AN ADJUSTABLE OUTDOOR THERMOSTAT AND WIRE TO CONTROL THE SECOND STAGE OF THE AUXILIARY ELECTRIC RESISTANCE HEATER.

UPON A CALL FOR THE OCCUPIED SCHEDULE, THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM SCHEDULED OUTSIDE AIR SETPOINT, AND THE RELATED INDOOR/OUTDOOR UNIT SHALL START. UPON INDOOR/OUTDOOR UNIT SHUTDOWN, THE MOTORIZED OUTSIDE AIR DAMPER SHALL CLOSE.

UPON A CALL FOR THE UNOCCUPIED SCHEDULE, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, AND THE INDOOR/OUTDOOR UNIT SHALL START.

A WALL MOUNTED OR DUCT MOUNTED CO2 SENSOR, MONITORING CO2 LEVELS IN THE SPACE OR RETURN AIR DUCT, SHALL MODULATE THE OUTSIDE AIR DAMPER, MOTORIZED RELIEF AIR DAMPER (AS APPLICABLE) AND RETURN AIR DAMPERS, IN SEQUENCE, AS REQUIRED TO MAINTAIN CO2 LEVELS AT A MAXIMUM OF 700 PPM (ADJ). REFER TO THE EQUIPMENT SCHEDULES FOR THE MINIMUM CO2 SCHEDULED OUTSIDE AIR SETPOINT AND THE MAXIMUM CO2 SCHEDULED OUTSIDE AIR SETPOINT. UPON SATISFACTION OF THE CO2 SENSOR, THE OUTSIDE AIR, RELIEF AIR AND RETURN AIR DAMPERS SHALL RETURN TO THEIR MINIMUM SCHEDULED SETPOINT AND NORMAL SEQUENCE OF OPERATION. REFER TO THE PLANS FOR LOCATION OF THE CO2 SENSOR TYPE REQUIRED.

PROVIDE A SPACE HUMIDISTAT TO OVERRIDE THE COOLING THERMOSTAT TO PROVIDE FOR DEHUMIDIFICATION.

DURING DEHUMIDIFICATION, THE HEAT PUMP UNIT REVERSING VALVE SHALL BE LOCKED OUT TO PREVENT SWITCHING TO THE HEATING MODE AND THE COMPRESSOR SHALL BE COMMANDED ON FOR COOLING. THE SPACE THERMOSTAT SHALL THEN MODULATE THE REFRIGERANT HOT GAS REHEAT COIL VALVE OR THE FIRST STAGE OF THE 2-STAGE HEATER, AS SPECIFIED BELOW, TO MAINTAIN THE REQUIRED SPACE TEMPERATURE.

WHERE SPECIFIED OR HUMIDISTATS ARE INDICATED ON THE PLANS, UNITS WITH A SCHEDULED COOLING CAPACITY GREATER THAN OR EQUAL TO 42 MBH SHALL UTILIZE THE SPECIFIED HOT GAS REHEAT COIL FOR REHEAT. UNITS WITH A SPECIFIED COOLING CAPACITY OF LESS THAN 42 MBH SHALL USE THE AUXILIARY RESISTANCE HEATER FOR REHEAT.

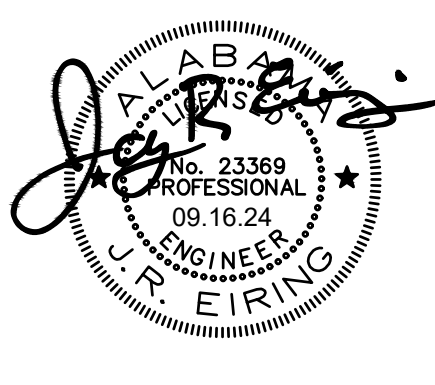
PROVIDE SMOKE DETECTORS AS SPECIFIED ABOVE, AND WHERE SHOWN ON THE PLANS. WIRE THE DETECTORS TO STOP THE UNIT UPON SMOKE DETECTION. COORDINATE WORK WITH ELECTRICAL CONTRACTOR AND PROVIDE REQUIRED INTERLOCKS, WIRING, RELAYS, ETC., AS REQUIRED FOR SHUTDOWN OF THE UNIT AS SPECIFIED.

EXHAUST FAN (EF) CONTROLS: PROVIDE INTERLOCKS FOR CERTAIN FANS AS NOTED ON FAN SCHEDULE, INCLUDING LIGHTING INTERLOCKS IF NOT SHOWN ON ELECTRICAL.

REFER TO THE END OF SECTION 15700, HVAC CONTROLS FOR ADDITIONAL DETAILED REQUIREMENTS.

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SHEET TITLE : LARGE SCALE MECH. ROOM AND SECTIONS

MCKEE JOB # : 22-315

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 08.27.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :



ZGOUVAS, EIRING & ASSOCIATES
 CONSULTING ENGINEERS
 800 S. MCDONOUGH STREET
 MONTGOMERY, AL. 36104
 334.263.4406
 ZEA PROJECT NUMBER: 24-185

SHEET NO. : **M1.2**

SPLIT SYSTEM HEAT PUMP UNITS SCHEDULE

UNIT TYPE	MINIMUM TOTAL AIR CFM	OUTSIDE AIR CFM			APPROX. EXT. STATIC PRESS. - INCHES OF WATER COL.	FAN MOTOR				MINIMUM COOLING CAPACITY AT A.H.R.I. CONDITIONS - TOTAL BTU/HR	MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 22°F AMBIENT & 70°F INDOOR TEMP. - BTU/HR	COMPRESSOR MOTOR				OUTDOOR UNIT FAN(S)				AUXILIARY RESISTANCE HEATER				MINIMUM HSPF/COP AT A.H.R.I. CONDITIONS	MIN. EFFICIENCY AT A.H.R.I. CONDITIONS	
		MINIMUM CO2 SETPOINT	MAXIMUM CO2 SETPOINT	MAXIMUM SETPOINT (ECONOMIZER)		APPROX. H.P.	VOLTS	PHASE	HZ.			APPROX. F.L.A.	VOLTS	PH.	HZ.	APPROX. F.L.A.	VOLTS	PH.	HZ.	K.W.	CONTROL STEPS	VOLTS	PH.			HZ.
HP-A	1200	120	405	N/A	0.50	1/2	208	3	60	36,000	24,000	11.0	208	3	60	1.5	208	1	60	10.0	TWO	208	3	60	8.2 HSPF	14.0 SEER
HP-B	1600	150	530	N/A	0.65	3/4	208	3	60	48,000	32,000	15.0	208	3	60	2.0	208	1	60	12.0	TWO	208	3	60	8.2 HSPF	14.0 SEER
HP-C	3000	950	950	N/A	0.70	2.0	208	3	60	90,000	60,000	30.0	208	3	60	3.5	208	1	60	25.0	TWO	208	3	60	3.3 COP	11.0 EER
HP-D	2400	120	600	N/A	0.82	2.0	208	3	60	72,000	48,000	23.0	208	3	60	2.0	208	1	60	20.0	TWO	208	3	60	3.3 COP	11.0 EER
HP-E	1600	120	550	N/A	0.65	3/4	208	3	60	48,000	32,000	15.0	208	3	60	2.0	208	1	60	12.0	TWO	208	3	60	8.2 HSPF	14.0 SEER
HP-F	2000	150	400	N/A	0.50	1.0	208	3	60	60,000	40,000	17.0	208	3	60	2.5	208	1	60	15.0	TWO	208	3	60	8.2 HSPF	14.0 SEER
HP-G	1600	100	300	N/A	0.90	3/4	208	3	60	48,000	32,000	15.0	208	3	60	2.0	208	1	60	12.0	TWO	208	3	60	8.2 HSPF	14.0 SEER
HP-H	4000	120	560	N/A	0.71	2.0	208	3	60	120,000	80,000	34.0	208	3	60	6.0	208	1	60	30.0	TWO	208	3	60	3.3 COP	11.0 EER

NOTES:

- ALL INDOOR UNITS SHALL BE FACTORY WIRED FOR SINGLE POINT POWER CONNECTIONS (FAN AND HEATER).
- 208 VOLT, 3 PHASE POWER IS BEING PROVIDED BY ELECTRICAL TO THE INDOOR HEAT PUMP UNIT SECTIONS. UNIT MANUFACTURER SHALL PROVIDE FACTORY INSTALLED RELAYS, TRANSFORMERS, ETC., AS REQUIRED TO OPERATE EQUIPMENT AT POWER REQUIREMENTS SPECIFIED ABOVE.
- SEER RATINGS BASED ON AHRI 210/240
- EER RATINGS BASED ON AHRI 340/360
- HSPF RATINGS BASED ON AHRI 210/240
- COP RATING BASED ON AHRI 340/360 AT 47°F DB/43°F WB
- EACH UNIT WITH SCHEDULED COOLING CAPACITY GREATER THAN 40.0 MBH SHALL BE PROVIDED WITH A REFRIGERANT HOT GAS REHEAT COIL. COMPLETE WITH REFRIGERANT PIPING, PIPE INSULATION, VALVES, CONTROLS, ETC. REQUIRED FOR HUMIDITY CONTROL - PROVIDE MANUAL REFRIGERANT ISOLATION VALVES FOR HOT GAS AND LIQUID LINES - FURNISH FOR APPROVAL DETAILED REFRIGERANT PIPING CONN. DIAGRAM AND CONTROL WIRING DIAGRAM - PRIOR TO SUBMITTING THE DIAGRAM OBTAIN EQUIPMENT MANUFACTURER'S APPROVAL. SEE SPECS FOR ADDITIONAL REQUIREMENTS
- ALL UNITS WITH SCHEDULED COOLING CAPACITY GREATER THAN 60 MBH SHALL HAVE MINIMUM OF TWO COMPRESSORS OR 2-STAGES OF COOLING AS REQUIRED BY ASHRAE 90.1.
- ALL UNITS WITH SCHEDULED COOLING CAPACITIES GREATER THAN 60 MBH SHALL BE PROVIDED WITH TWO SPEED CONTROL OF THE SUPPLY FAN SUCH THAT THE FAN AIRFLOW WILL VARY AS A FUNCTION OF LOAD AS REQUIRED BY ASHRAE 90.1 - 2013.

FANS SCHEDULE

FAN TYPE	FAN CFM	DESCRIPTION	MINIMUM FAN SIZE INCHES	APPROX. FAN WALL/ ROOF OPENING -INCHES	MAXIMUM FAN SPEED RPM	APPROX. EXT. STATIC PRESS. IN. WTR. COL.	FAN MOTOR				CONTROL INTERLOCK	REMARKS
							MIN. H.P./ WATTS	VOLTS	PH.	HERTZ		
EF-A	350	CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVEN, ECM	10.0	N/A	1050	.30	350w	120	1	60	LIGHTING CIRCUIT	
EF-B	100	CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVEN, ECM	8.0	N/A	1050	.30	84w	120	1	60	LIGHTING CIRCUIT	
EF-C	950	IN-LINE, DIRECT DRIVE, CENTRIFUGAL, ECM, CABINET	18.0	N/A	1002	.35	.50 hp	120	1	60	LIGHTING CIRCUIT	
EF-D	1200	IN-LINE, DIRECT DRIVE, CENTRIFUGAL, ECM, CABINET	18.0	N/A	931	.69	.50 hp	120	1	60	LIGHTING CIRCUIT	
EF-E	200	CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVEN, ECM	10.0	N/A	1050	.35	84w	120	1	60	T'STAT / INVERTER	
EF-F	100	CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVEN, ECM	8.0	N/A	1050	.30	84w	120	1	60	LIGHTING CIRCUIT / INVERTER	
SAF-1	3000	IN-LINE, CABINET, DIRECT DRIVEN, ECM	18.0	N/A	1050	0.69	1.25 hp	208	3	60	WALL PUSH BUTTON / INVERTER	

CEILING CASSETTE TYPE HEAT PUMP UNIT SCHEDULE

UNIT TYPE	MINIMUM TOTAL COOLING CAP. AT A.R.I. CONDITIONS - BTU/HR	MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 70°F INDOOR & 47°F AMBIENT - BTU/HR	INDOOR FAN CFM AT HIGH SPEED (WET COIL)	OUTSIDE AIR CFM	INDOOR UNIT MCA - POWER	OUTDOOR UNIT MCA (COMPRESSOR AND COND. FAN) - POWER	OUTDOOR UNIT MOP (COMPRESSOR AND COND. FAN) - POWER	MINIMUM HSPF AT AHRI 210/240 CONDS	MINIMUM S.E.E.R. AT AHRI 210/240 CONDS
CCHP-A	12,000	14,000	490	20	1.5 A - 208 V., 1 PH., 60 HZ.	11.0 A - 208 V., 1 PH., 60 HZ.	28.0 A - 208 V., 1 PH., 60 HZ.	12.8	27.0
CCHP-B	18,000	19,000	560	66	1.5 A - 208 V., 1 PH., 60 HZ.	11.0 A - 208 V., 1 PH., 60 HZ.	28.0 A - 208 V., 1 PH., 60 HZ.	9.2	25.0

WALL MOUNTED DUCTLESS HEAT PUMP UNIT SCHEDULE

UNIT TYPE	MINIMUM TOTAL COOLING CAP. AT A.R.I. CONDITIONS - BTU/HR	MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 70°F INDOOR & 47°F AMBIENT - BTU/HR	INDOOR FAN CFM AT HIGH SPEED (WET COIL)	INDOOR UNIT MCA - POWER	OUTDOOR UNIT MCA (COMPRESSOR AND COND. FAN) - POWER	OUTDOOR UNIT MOP (COMPRESSOR AND COND. FAN) - POWER	MINIMUM HSPF AT AHRI 210/240 CONDS	MINIMUM S.E.E.R. AT AHRI 210/240 CONDS
DHP-A	9,000	10,900	340	1.5 A - 208 V., 1 PH., 60 HZ.	10.0 A - 208 V., 1 PH., 60 HZ.	15.0 A - 208 V., 1 PH., 60 HZ.	12.8	27.0
DHP-B	18,000	19,000	500	1.5 A - 208 V., 1 PH., 60 HZ.	11.0 A - 208 V., 1 PH., 60 HZ.	28.0 A - 208 V., 1 PH., 60 HZ.	10.2	18.5

EXHAUST/RETURN AIR REGISTER SCHEDULE

SYMBOL	CFM RANGE	SIZE - IN. x IN.	DESCRIPTION	MAXIMUM NC RATING	BRANCH DUCT SIZE
1	0 - 140	9x9	CEILING EXH. OR RETURN REG.	20	9x6
2	141 - 240	12x12	CEILING EXH. OR RETURN REG.	20	12x7
3	241 - 340	14x14	CEILING EXH. OR RETURN REG.	20	14x7
4	341 - 460	16x16	CEILING EXH. OR RETURN REG.	20	16x9
5	461 - 600	18x18	CEILING EXH. OR RETURN REG.	20	18x10
6	601 - 760	20x20	CEILING EXH. OR RETURN REG.	20	20x12
7	761 - 940	24x24	CEILING EXH. OR RETURN REG.	20	24x12
8	941 - 1200	30x24	CEILING EXH. OR RETURN REG.	20	24x14
9	1201 - 1400	36x24	CEILING EXH. OR RETURN REG.	20	28x14

NOTES

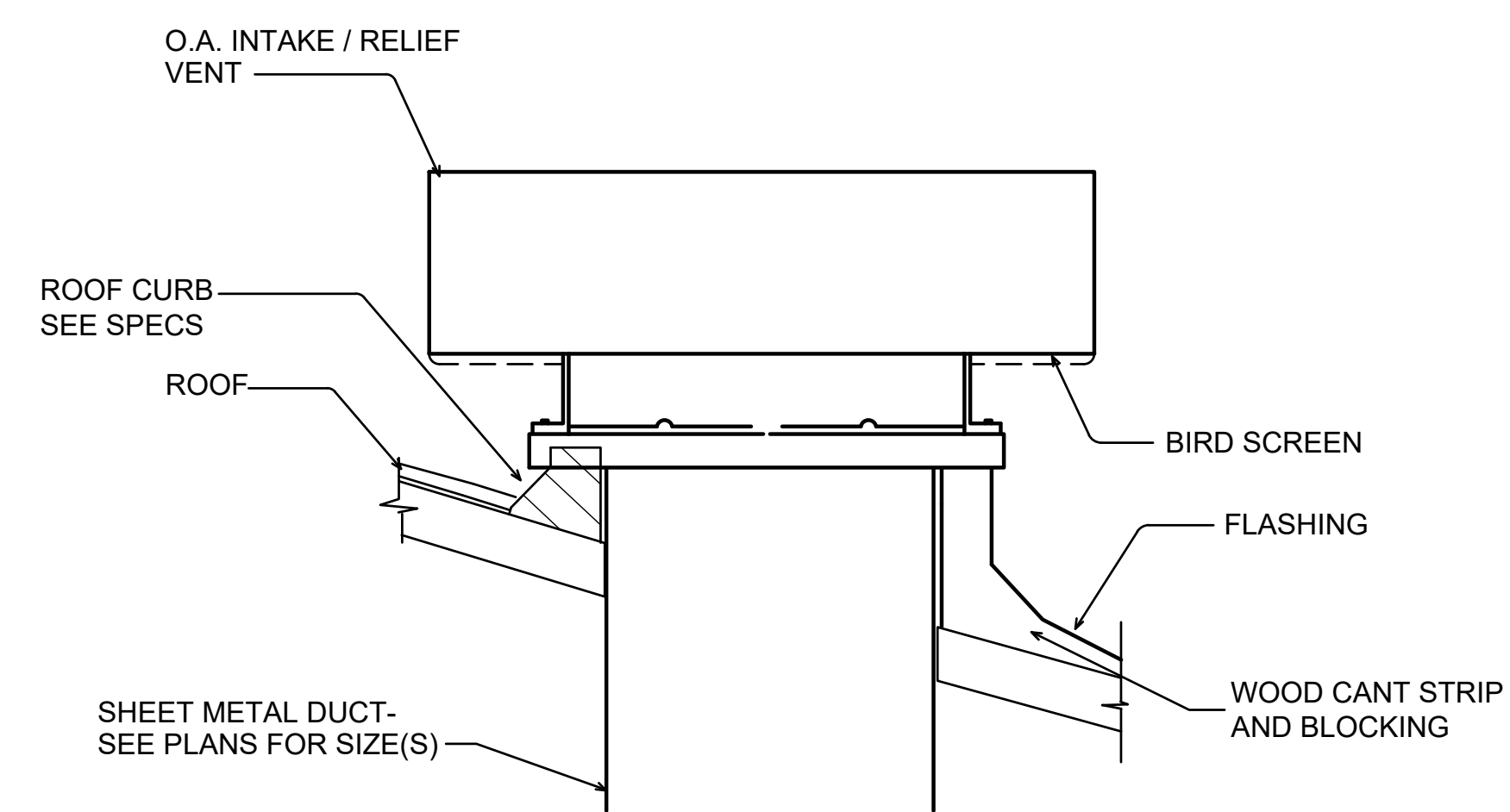
- RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS.
- 1) 2) 3) & 4) SHALL BE IN INTEGRAL 48x24 METAL CEILING PANEL AS SPECIFIED. ALL OTHERS SHALL BE IN INTEGRAL 24x24 METAL CEILING PANEL AS SPECIFIED.
- CONTRACTOR SHALL INSULATE THE BACK SIDE OF CEILING MOUNTED EXHAUST & RETURN AIR GRILLES/REGISTERS WITH 1" THICKNESS EXTERNAL DUCT INSULATION WITH CHARACTERISTICS SPECIFIED FOR EXTERNAL DUCT INSULATION.

CEILING DIFFUSER SCHEDULE

SYMBOL	CFM RANGE	NECK SIZE INCHES	FACE SIZE INCHES	BRANCH DUCT SIZE	MAXIMUM NC VALUE	BASIS OF DESIGN
1	10 - 95	6" ROUND	24x24	6"Ø	20	TITUS TMS
2	100 - 180	8" ROUND	24x24	8"Ø	20	TITUS TMS
3	185 - 270	10" ROUND	24x24	10"Ø	20	TITUS TMS
4	275 - 400	12" ROUND	24x24	12"Ø	20	TITUS TMS
5	405 - 530	14" ROUND	24x24	14"Ø	20	TITUS TMS
6	535 - 625	15" ROUND	24x24	15"Ø	20	TITUS TMS
7	10 - 95	6x6	6x6	6x6	20	TITUS TDC
8	95 - 200	9x9	9x9	10x7	20	TITUS TDC
9	205 - 350	12x12	12x12	13x9	20	TITUS TDC
10	355 - 500	15x15	15x15	15x10	20	TITUS TDC
11	505 - 650	18x18	18x18	18x10	20	TITUS TDC
12	650 - 900	21x21	21x21	21x14	20	TITUS TDC
13	905 - 1200	24x24	24x24	24x15	20	TITUS TDC

NOTES

- RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS
- CONTRACTOR SHALL INSULATE THE EXTERIOR (BACK SIDE OF DIFFUSER PANEL) WITH 1" THICKNESS EXTERNAL DUCT INSULATION WITH CHARACTERISTICS SPECIFIED FOR EXTERNAL DUCT INSULATION.

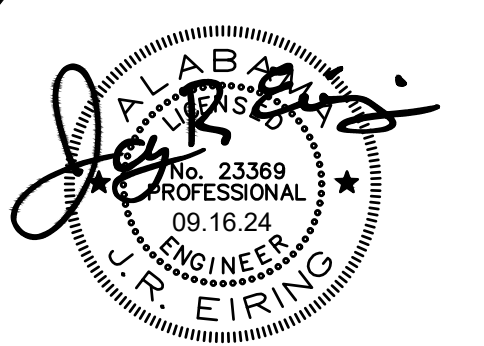


ROOF MOUNTED INTAKE / RELIEF AIR VENTILATOR

NOT TO SCALE

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MCKEE & ASSOCIATES
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 631 SOUTH HULL STREET - MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : HVAC SCHEDULES

MCKEE JOB # : 22-315

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 08.27.2024

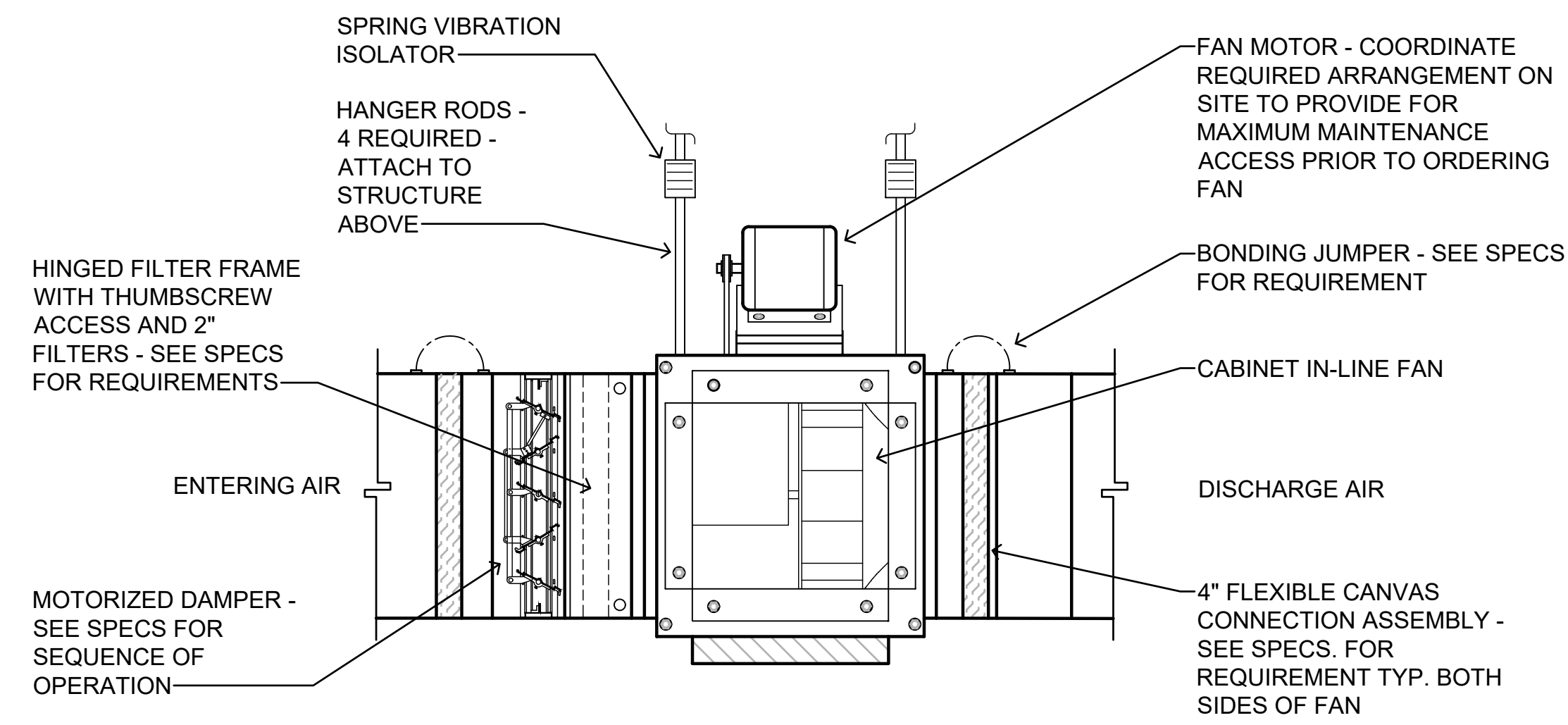
REVISED DATE :

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REVISED DATE :

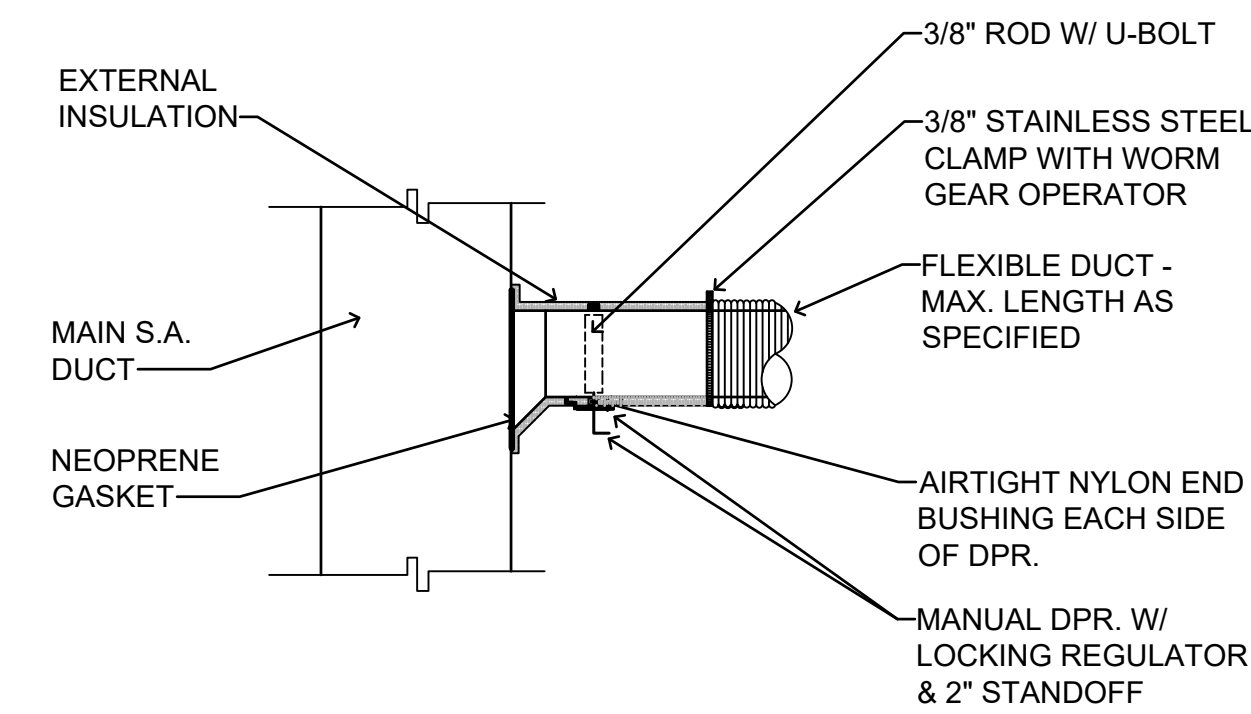


SHEET NO. : **M2.0**



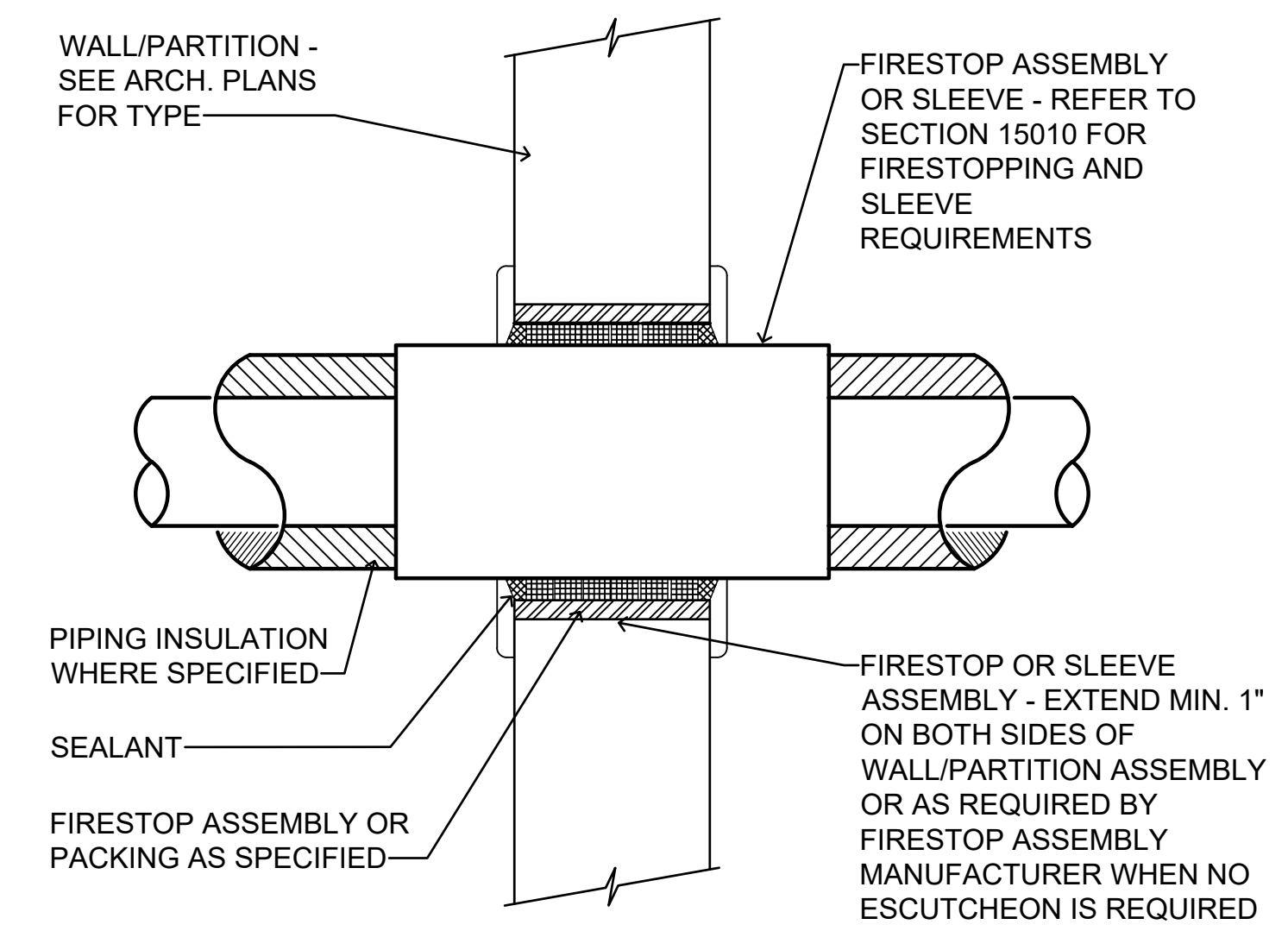
CABINET TYPE IN-LINE CENTRIFUGAL SUPPLY AIR FAN DETAIL (SAF)

NOT TO SCALE
BELT DRIVEN FAN SHOWN, DIRECT DRIVEN FAN SAME



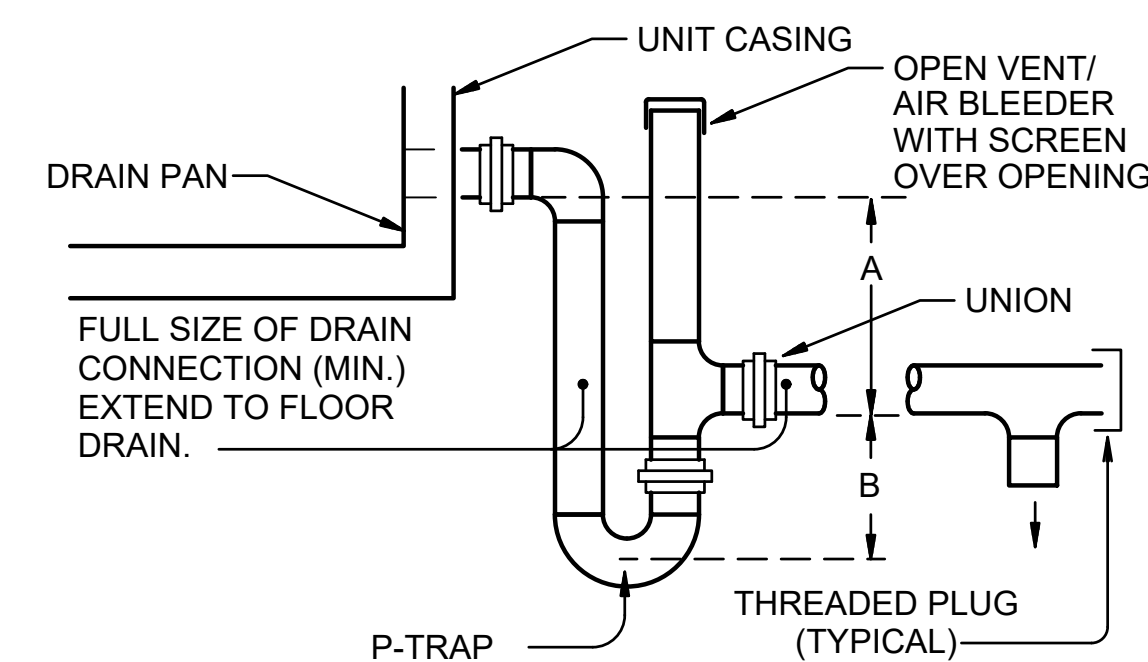
ROUND BRANCH DUCT TAKE-OFF DETAIL

NOT TO SCALE
RECTANGULAR RUNOUTS SAME EXCEPT WITH RECTANGULAR DUCT



INTERIOR WALL PIPING PENETRATION DETAIL

NOT TO SCALE
NOTES:
1. SEE SPEC SECTION 15010 FOR FIRESTOP AND SLEEVE REQUIREMENTS
2. DETAIL APPLIES TO ALL REFRIGERANT AND CONDENSATE PIPING.
3. ONLY ONE PIPE PER ASSEMBLY ALLOWED.
4. WHERE PIPING IS EXPOSED IN FINISHED AREAS, PROVIDE ESCUTCHEONS OVER PENETRATIONS AND DELETE REQUIREMENT FOR EXTENDING OF THE FIRESTOP ASSEMBLY 1" ON EACH SIDE OF THE PARTITION. DO NOT USE SPLIT TYPE ESCUTCHEONS NOR SPLIT TYPE SLEEVES.



UNIT TYPE	A	B
DRAW-THRU	2" PLUS "X"	"X" PLUS 1"
BLOW-THRU	1" MINIMUM	2X PLUS 1"

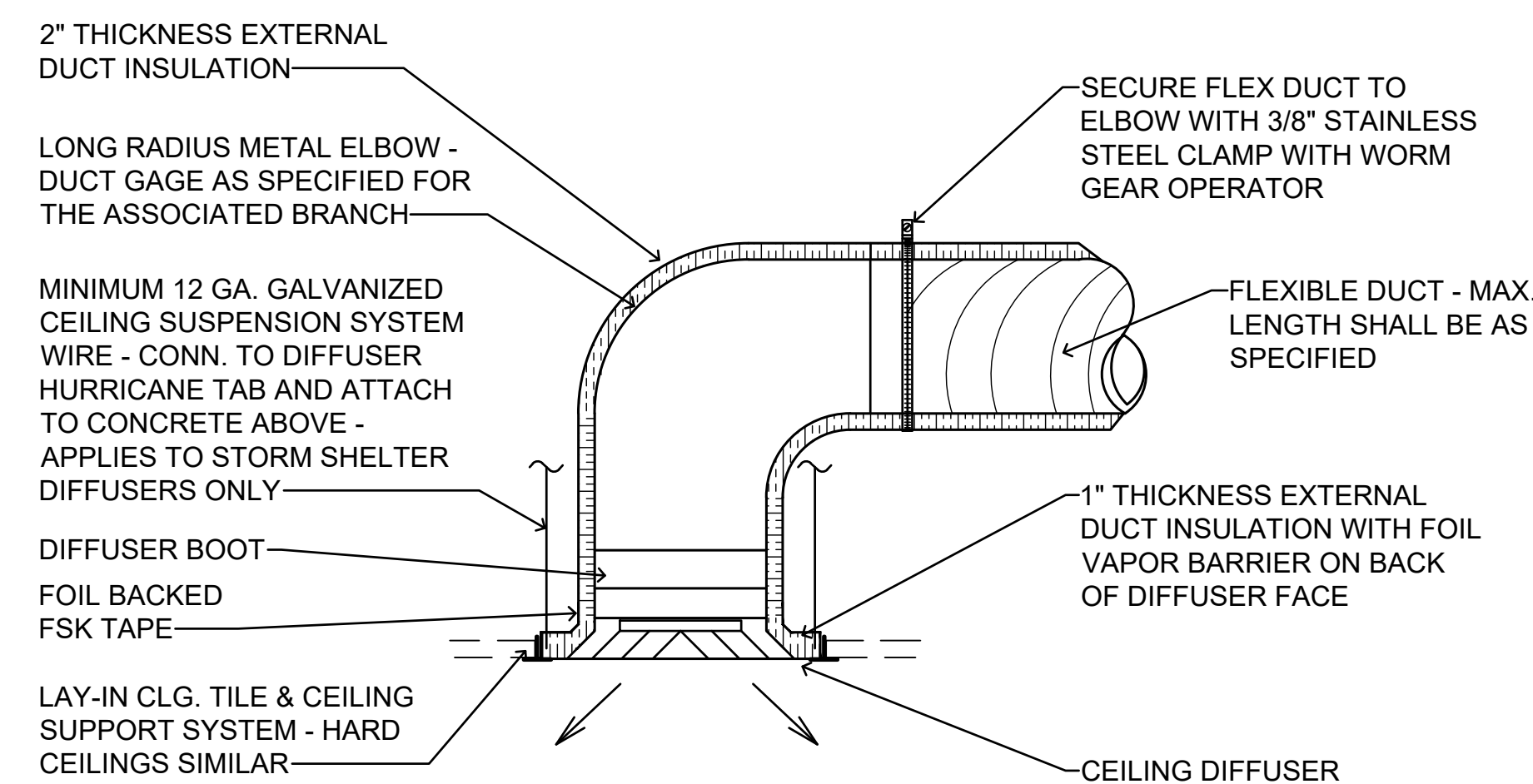
WHERE "X" = UNIT STATIC PRESSURE

TYPICAL AIR HANDLING UNIT

CONDENSATE DRAIN DETAIL

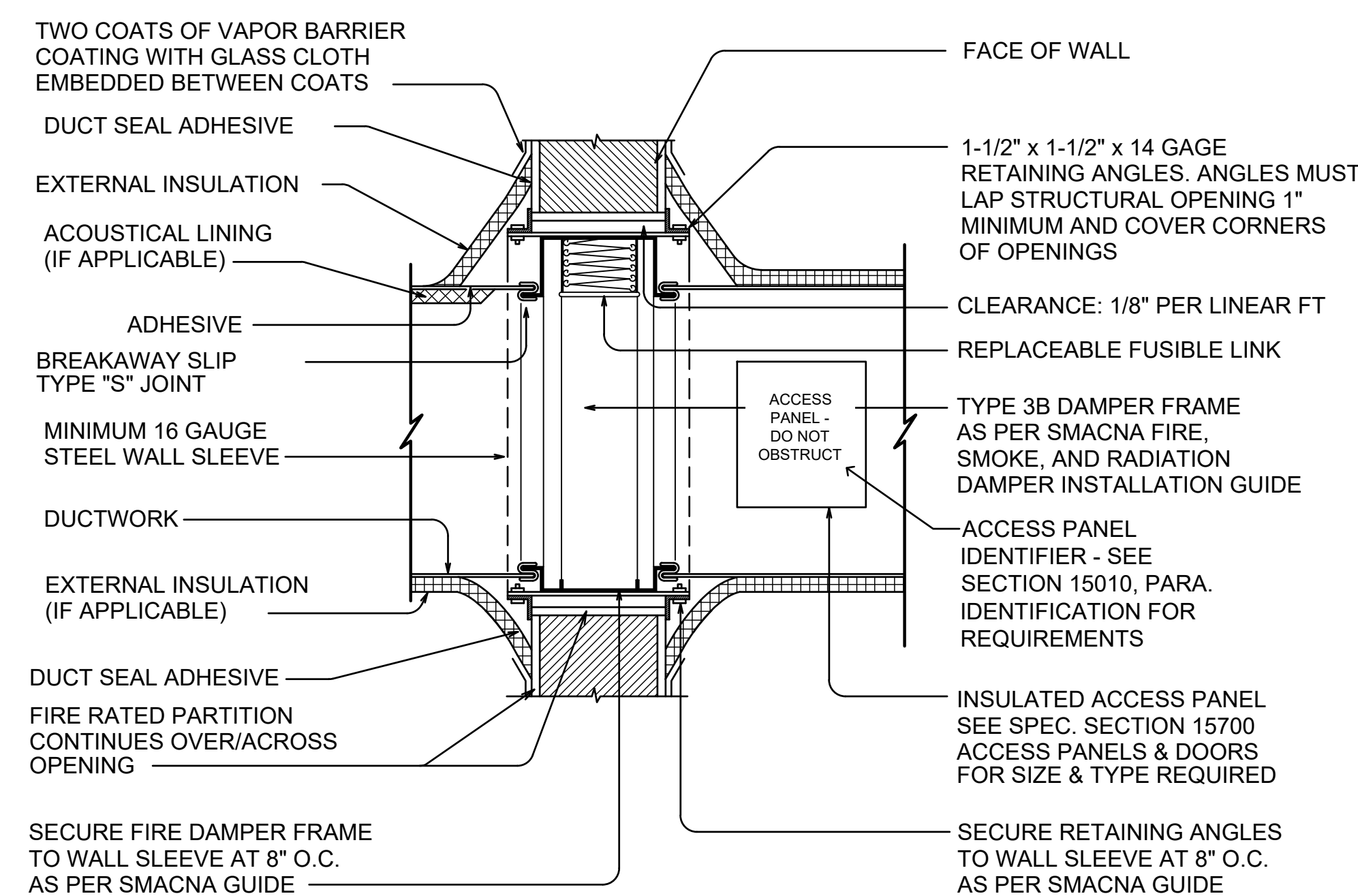
NOT TO SCALE

- NOTES:
- CONTRACTOR SHALL PROVIDE DRAIN ARRANGEMENT AS REQUIRED BY THE UNIT MANUFACTURER. IN ABSENCE OF THOSE REQUIREMENTS, CONTRACTOR SHALL PROVIDE DRAIN AS DETAILED ABOVE
 - CONTRACTOR SHALL RAISE THE RESPECTIVE UNIT AS REQUIRED TO ALLOW FOR INSTALLATION OF THE DRAIN AS DETAILED ABOVE
 - PROVIDE AN ELECTRIC SWITCH IN THE AUXILIARY CONDENSATE DRAIN LINE ON THE UNIT, THAT CONFORMS TO UL 508. TO SHUT DOWN THE UNIT AND ALARM TO THE BUILDING ENERGY MANAGEMENT SYSTEM (BAS) OPERATOR CONSOLE (IF APPLICABLE) SHOULD THE LINE BECOME OBSTRUCTED



DIFFUSER BOOT/PLENUM CONNECTION DETAIL

- NOT TO SCALE
- DIFFUSERS PANELS SHALL BE INSULATED PRIOR TO INSTALLING INTO THE CEILING GRID
 - DO NOT COVER STAINLESS STEEL BAND AND WORM GEAR OPERATOR UNTIL ENGINEER HAS INSPECTED THE INSTALLATION.



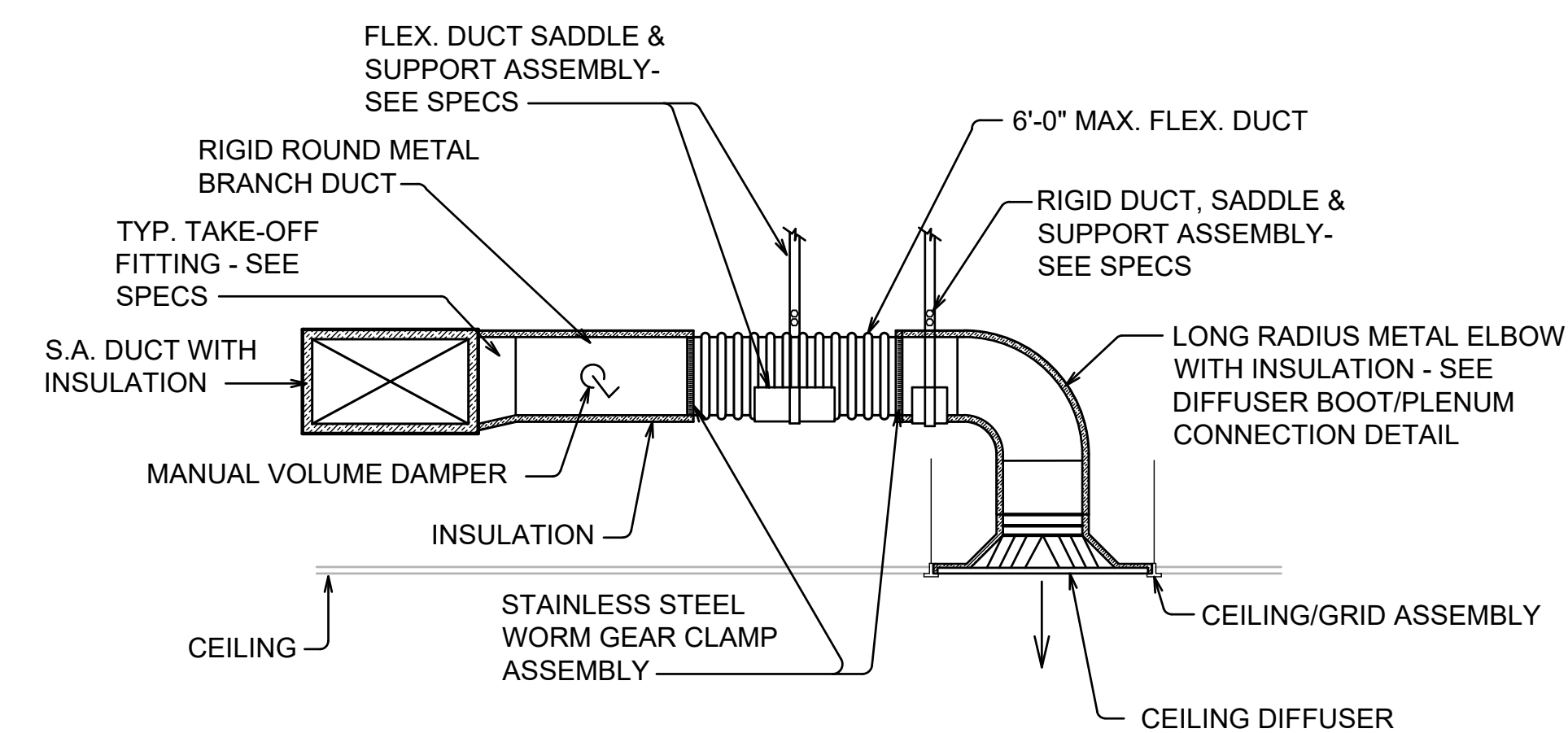
WALL MOUNTED FIRE DAMPER DETAIL

NOT TO SCALE

- NOTES:
- PROVIDE FIRE DAMPERS IN ALL DUCTS PENETRATING FIRE RATED WALLS, CEILINGS, FLOORS AND ANY TYPE OF RATED ASSEMBLY - REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATINGS.
 - VERTICAL ACTION INSTALLATION SHOWN. HORIZONTAL ACTION DAMPER INSTALLATION SIMILAR
 - PROVIDE ACCESS PANEL/DOOR IN DUCT AND INACCESSIBLE (HARD) CEILINGS FOR EACH FIRE DAMPER
 - DO NOT EXTERNALLY INSULATE THE FIRE DAMPER ANGLES UNTIL THE ENGINEER HAS INSPECTED THE FIRE DAMPER INSTALLATION

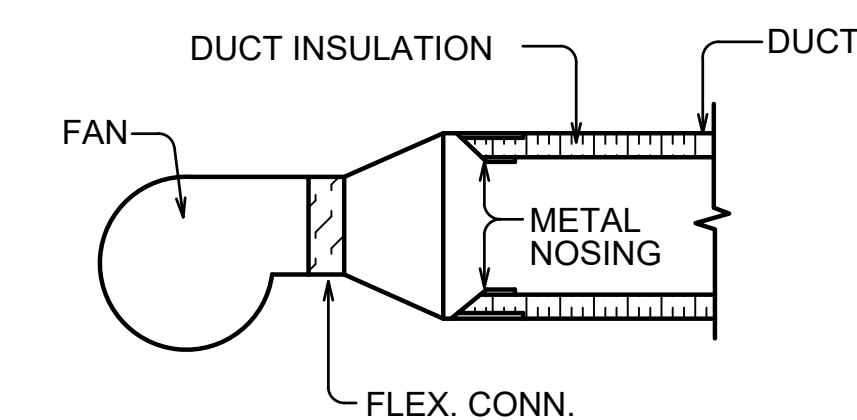
SYMBOLS

- ▲ DENOTES VERTICAL ACTION FIRE DAMPER
- ◆ DENOTES HORIZONTAL ACTION FIRE DAMPER



TYPICAL DIFFUSER RUN-OUT CONN.

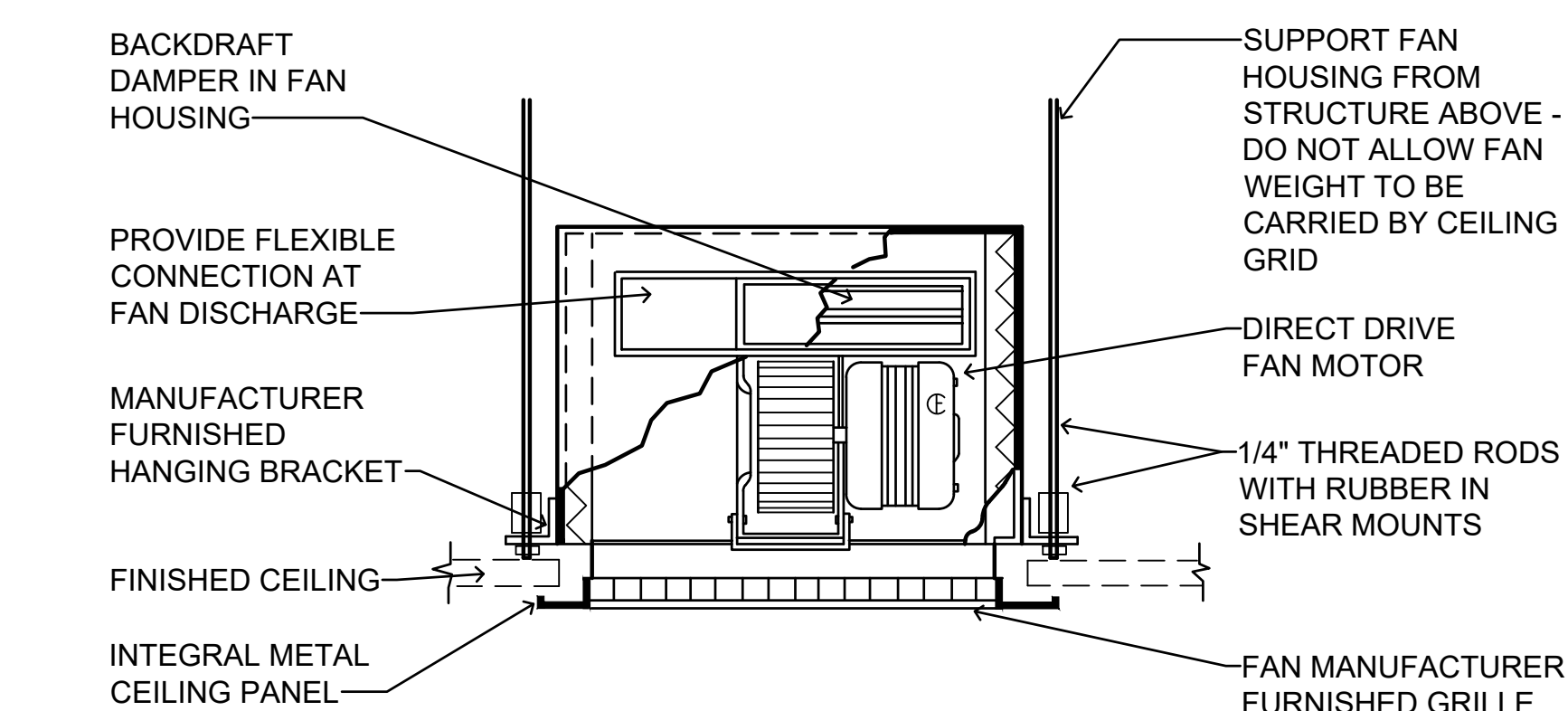
NOT TO SCALE



TYPICAL DUCT LINER INTERRUPTION DETAIL

NOT TO SCALE

- NOTE !! THIS DETAIL APPLIES TO FIRE DAMPER INSTALLATION, WHERE DUCTS CONNECT TO FAN SECTION, ANYWHERE BARE DUCT LINER PROTRUDES INTO THE AIRSTREAM, ANY POINT WHERE LINED DUCT IS PRECEDED BY UNLINED DUCT, BARE DUCT INSULATION EDGES THAT ARE EXPOSED IN THE RETURN AIR PLENUM, ETC. - SEE SPECS FOR ADDITIONAL REQUIREMENTS

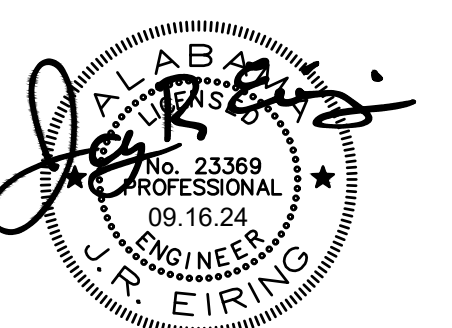


CEILING MOUNTED EXHAUST FAN CONN. DETAIL

NO SCALE

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MCKEE & ASSOCIATES
 ARCHITECTS, INC.
 631 SOUTH HULL STREET - MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : HVAC DETAILS

MCKEE JOB # : 22-315

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 08.27.2024

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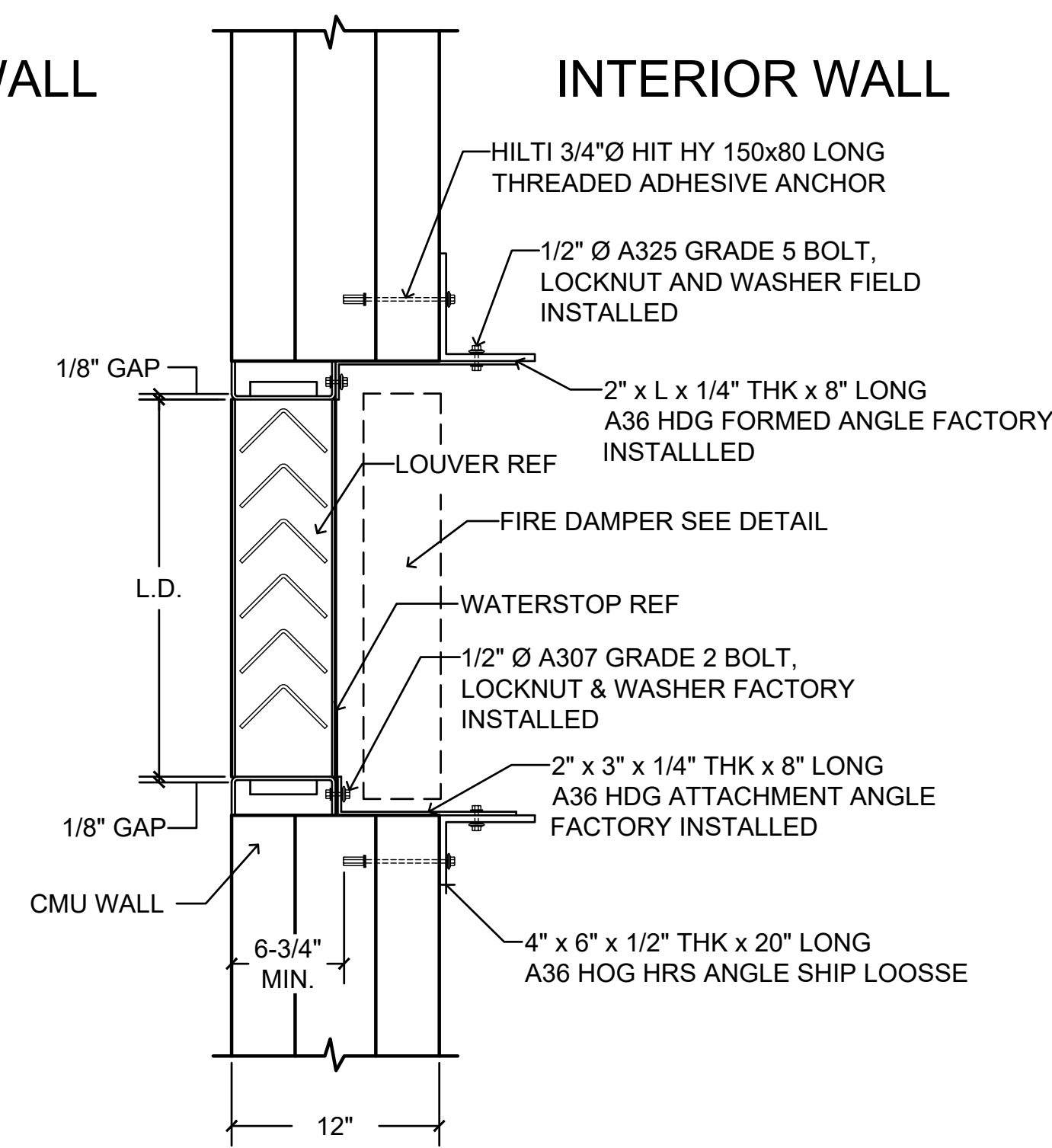
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SHEET NO. : **M2.1**



INTERIOR WALL



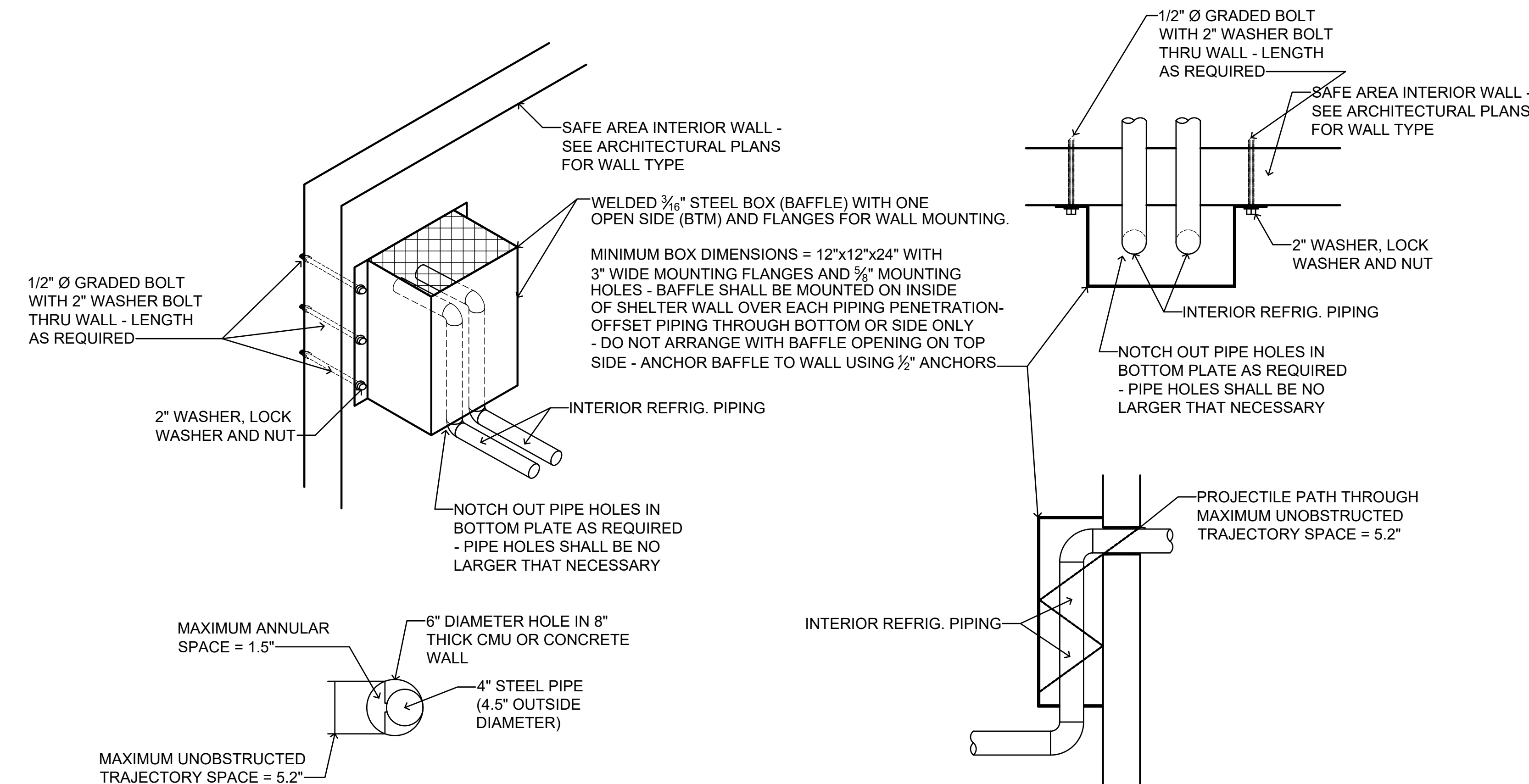
SECTIONAL VIEW

FEMA LOUVER CONN. AT INTERIOR SAFE ROOM WALL PENETRATION DETAIL

NOT TO SCALE

NOTE:

ALL ATTACHMENTS, ANCHORS, BOLTS, ETC., USED IN ATTACHING ITEMS TO THE SAFE ROOM WALL SHALL BE COORDINATED WITH, SUBMITTED TO, AND APPROVED BY THE STRUCTURAL ENGINEER BEFORE INSTALLATION



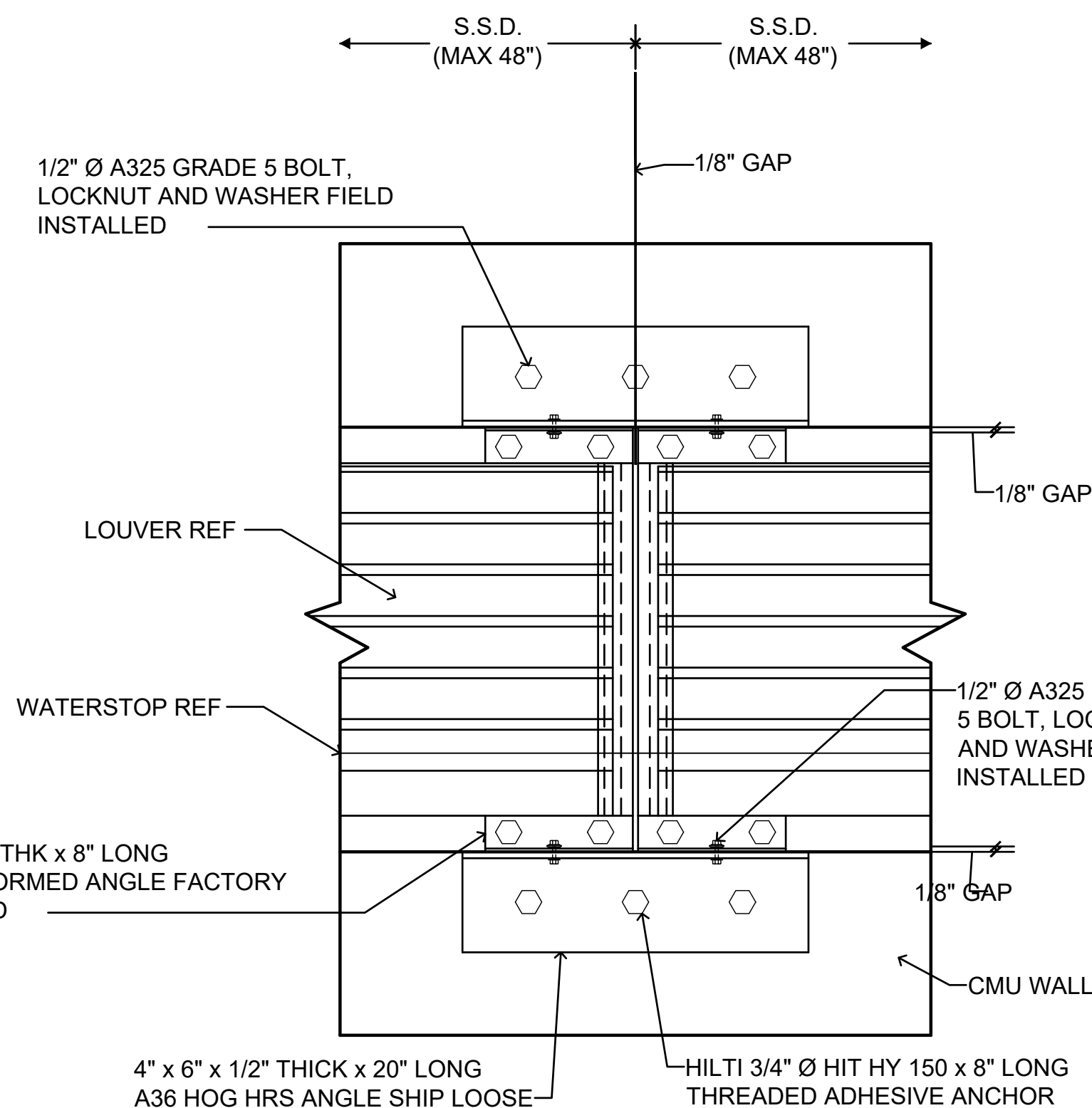
SAFE AREA REFRIG. PIPING WALL PENETRATION DETAIL

NOT TO SCALE

NOTES:

- ALL ATTACHMENTS, ANCHORS, BOLTS, ETC., USED IN ATTACHING ITEMS TO THE SAFE ROOM WALL SHALL BE COORDINATED WITH, SUBMITTED TO, AND APPROVED BY THE STRUCTURAL ENGINEER BEFORE INSTALLATION.
- PENETRATIONS OF THE SAFE ROOM AREA WHICH ARE 2" Ø OR LESS DO NOT REQUIRE PROTECTION AS INDICATED ABOVE.
- IN LIEU OF THE FIELD FABRICATED ASSEMBLY INDICATED ABOVE, THE CONTRACTOR MAY SUBSTITUTE A FACTORY FABRICATED AND TESTED ASSEMBLY IN ACCORDANCE WITH ICC-500 AND FEMA 361. THE ASSEMBLY SHALL BE AS MANUFACTURED BY RPH ADVANCED BUILDING SOLUTIONS, SERIES CYCLONE WALL SHROUD (CWS) AND SEALS AS REQUIRED, OR APPROVED EQUIVALENT, AND INSTALLED IN STRICT ACCORDANCE WITH THE METHODS REQUIRED BY THE ASSEMBLY MANUFACTURER.

INTERIOR WALL

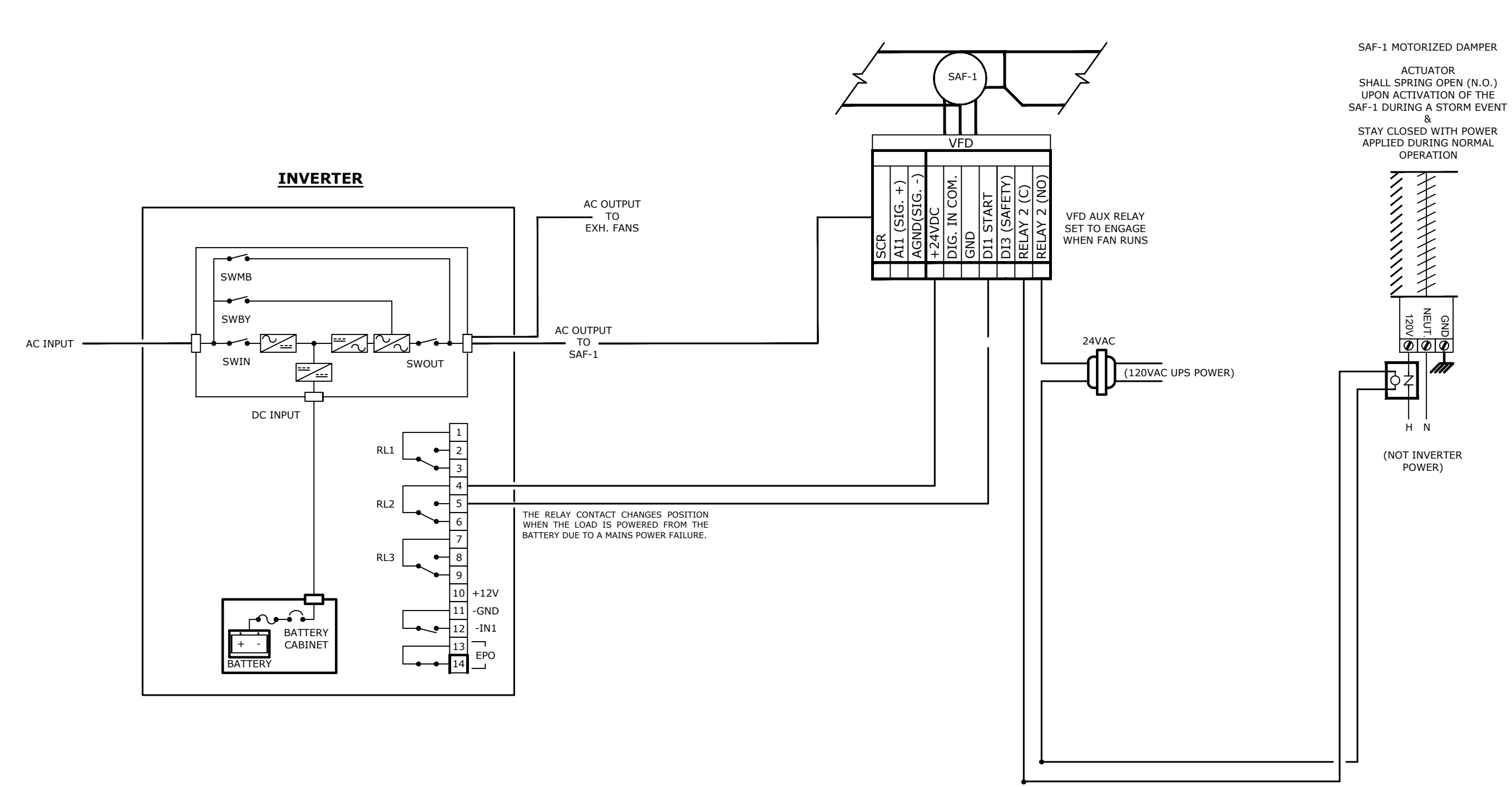


ELEVATION VIEW

STORM SHELTER SAF CONTROL SCHEMATIC

NOT TO SCALE

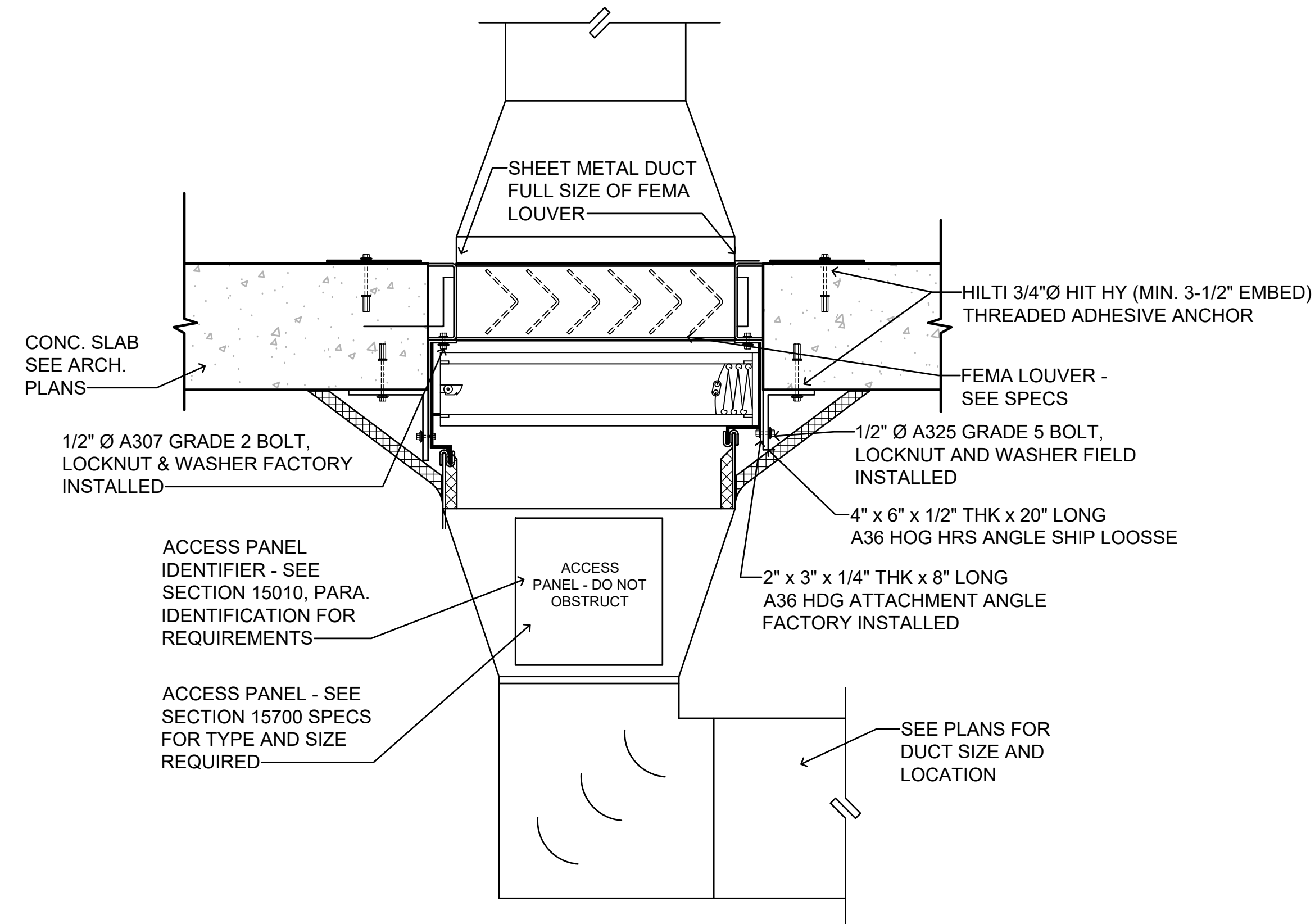
SCHEMATIC IS DIAGRAMMATIC AND SHOWN FOR INTENT. CONTROLS SUB-CONTRACTOR TO COORDINATE ACTUAL WIRING REQUIREMENTS WITH ELECTRICAL CONTRACTOR AND PROVIDE AS REQUIRED - SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION



SAF-1 SEQUENCE OF OPERATION:

UPON ACTIVATION OF THE MANUAL WALL MOUNTED EMERGENCY SWITCH, SAF-1 MOTORIZED DAMPER SHALL OPEN. UPON OPENING OF THE MOTORIZED DAMPER, SAF-1 AND EF-E & EF-F EXHAUST FANS SHALL START. RELIEF AIR FOR THE FACILITY WILL BE VIA THE EF-E & EF-F EXHAUST FANS AND THE VARIOUS RELIEF AIR GRILLES IN EACH SPACE. UPON A DEACTIVATION OF THE WALL MOUNTED EMERGENCY SWITCH, SAF-1 SHALL SHUTDOWN, ITS MOTORIZED DAMPERS SHALL CLOSE, AND EF-E & EF-F EXHAUST FANS SHALL RETURN TO THEIR NORMAL OPERATING REQUIREMENTS. EF-E SHALL OPERATE DURING A STORM EVENT BASED ON THE THERMOSTAT SETPOINT.

PROVIDE SIGNAGE OF THE TYPE SPECIFIED IN THE ARCHITECTURAL PORTION OF THE SPECIFICATIONS ADJACENT TO THE EMERGENCY SWITCH (WHITE LETTERS WITH RED BACKGROUND. SIGNAGE SHALL READ AS FOLLOWS: "UPON FAILURE OF POWER TO THE FACILITY DURING A WEATHER EVENT, PUSH BUTTON TO START FAN. UPON PASSAGE OF THE WEATHER EVENT AND AFTER THE SCHOOL ADMINISTRATION ISSUES AN ALL CLEAR, PULL TO STOP FAN. DO NOT OPERATE FAN UNDER NORMAL CONDITIONS".



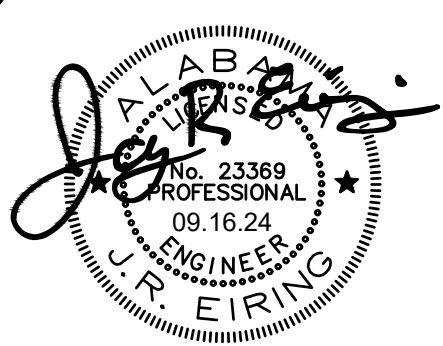
VERTICAL STORM SHELTER DUCT PENETRATION

NOT TO SCALE

NOTE: ALL ATTACHMENTS, ANCHORS, BOLTS, ETC. USED IN ATTACHING ITEMS TO THE SAFE ROOM LID SHALL BE COORDINATED WITH, SUBMITTED TO, AND APPROVED BY THE STRUCTURAL ENGINEER BEFORE INSTALLATION - ATTACHMENTS SHALL BE AS REQUIRED BY THE PROJECT STRUCTURAL ENGINEER

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SHEET TITLE : HVAC DETAILS

MCKEE JOB # : 22-315

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ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S. MCDONOUGH STREET
MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER: 24-185

SHEET NO. : M2.2

HP-A OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	#People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	#Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
TYPICAL CLASSROOM	835	35	30	0.12	101	10	300	401	1				0	1200	0.334167
Total			30		101		300								

HP-C OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	#People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	#Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
SCIENCE 133	950	25	24	0.18	171	10	240	411	1				950	2600	0.156077
STOR 144	204	0	0	0.12	25	0	0	25	1		1		0	400	0.0625
Total			24		196		240								
Cumulative CFM														436	

HP-E OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	#People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	#Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
CLASSROOM 142	835	35	30	0.12	101	10	300	401	1				0	1200	0.334167
TOILETS 136/137										2	70		140	100	0
CORRIDOR 134	530	0	0	0.06	32	0	0	32	1				0	300	0.106667
Total			30		101		300								
Cumulative CFM														433	

Max "Zp"	0.334167
"Ev"	0.8
"Vou" Total OSA EQ 4-6	433
Total Building Occupancy	30
Zone Occupancy	30
"D" from EQ 4-7	1
"Vot" Equation 4-8	541.25
TOTAL OSA	541.25

HP-G OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	#People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	#Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
NURSE 109	230	5	2	0.06	14	5	10	24	1				0	300	0.08
TOILET 111/106										2	70		140	100	0
COUNSELOR 107	170	5	1	0.06	11	5	5	16	1				0	250	0.064
CONFERENCE ROOM 108	200	50	10	0.06	12	5	50	62	1				0	300	0.206667
RECEPTION 102	410	30	13	0.06	25	5	65	90	1				0	400	0.225
WORK ROOM 105	110	25	3	0.06	7	5	15	22	1				0	200	0.11
STORAGE 110	38	0	0	0.12	5	0	0	5	1				0	50	0.1
Total			29		14		145								
Cumulative CFM														219	

Max "Zp"	0.225
"Ev"	0.9
"Vou" Total OSA EQ 4-6	219
Total Building Occupancy	29
Zone Occupancy	29
"D" from EQ 4-7	1
"Vot" Equation 4-8	243.3333
TOTAL OSA	243.3333

CCHP OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	#People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	#Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
PRINCIPAL 104	215	5	2	0.06	13	5	10	28.75	0.8				1	215	0.095833
OFFICE 103	160	5	1	0.06	10	5	5	18.75	0.8				0	300	0.0625
TEACHER LOUNGE 136	335	25	9	0.06	21	5	45	66	1				0	400	0.165
Total			12		23		60								

HP-B OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	#People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	#Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
TYPICAL CLASSROOM	835	35	30	0.12	101	10	300	401	1				0	1200	0.334167
CORRIDOR 120	310	0	0	0.06	19	0	0	23.75	0.8				0	400	0.069375
Total			30		120		300								
Cumulative CFM														424.75	

Max "Zp"	0.334167
"Ev"	0.8
"Vou" Total OSA EQ 4-6	424.75
Total Building Occupancy	30
Zone Occupancy	30
"D" from EQ 4-7	1
"Vot" Equation 4-8	530.9375
TOTAL OSA	530.9375

HP-D OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	#People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	#Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
MATH 124	835	35	30	0.12	101	10	300	401	1				0	1300	0.308462
TOILETS 122										10	70		700	200	0
CORRIDOR 120/119	1300	0	0	0.06	78	0	0	78	1				0	500	0.156
Total			30		101		300								
Cumulative CFM														479	

Max "Zp"	0.308462
"Ev"	0.8
"Vou" Total OSA EQ 4-6	479
Total Building Occupancy	30
Zone Occupancy	30
"D" from EQ 4-7	1
"Vot" Equation 4-8	598.75
TOTAL OSA	598.75

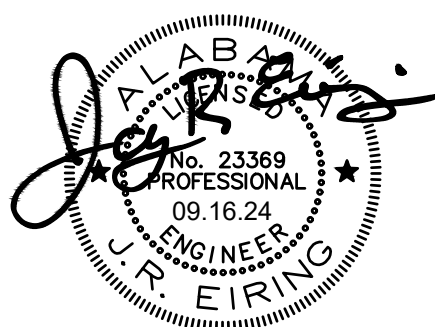
HP-F OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	#People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	#Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
ACCESS ROOM 143	835	25	21	0.12	101	10	210	311	1				0	1200	0.259167
Total			21		101		210								

HP-H OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	#People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	#Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
MEDIA CENTER 115	1300	25	33	0.06	78	10	330	408	1				0	2200	0.185455
MEDIA RECEPTION	165	30	5	0.06	10	5	25	35	1				0	250	0.14
OFFICE 116	280	10	3	0.06	17	5	15	32	1				0	300	0.106667
WORK 118	225	5	2	0.06	14	5	10	24	1				0	250	0.096
Total			43		105		380								
Cumulative CFM														499	

Max "Zp"	0.185455
"Ev"	0.9
"Vou" Total OSA EQ 4-6	499
Total Building Occupancy	41
Zone Occupancy	41
"D" from EQ 4-7	1
"Vot" Equation 4-8	554.4444
TOTAL OSA	554.4444

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 631 SOUTH HULL STREET - MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : HVAC O.A. CALCULATIONS

MCKEE JOB # : 22-315

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 08.27.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :



SHEET NO. : **M2.3**

ELECTRICAL LEGEND

CEILING OUTLETS

- A RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- A RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- FS SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL
- FS SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- RECESSED OR SURFACE MOUNT LED DOWNLIGHT
- RECESSED OR SURFACE MOUNT LED DOWNLIGHT "EMERGENCY POWER"
- SURFACE OR PENDANT MOUNTED ROUND FIXTURE
- C JUNCTION BOX
- EXIT LIGHT
- EF EXHAUST FAN

WALL OUTLETS

- WALL MOUNTED EXIT LIGHT
- WALL MOUNTED LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE "EMERGENCY POWER"
- BATTERY OPERATED EMERGENCY LIGHTING FIXTURE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE EXTRA-DUTY WEATHERPROOF BOX FOR RECEPTACLE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT AS DIRECTED FOR SMARTBOARD
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT AS DIRECTED FOR DRINKING FOUNTAIN
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 3 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 28" AFF TO C/L FOR DRINKING FOUNTAIN
- SINGLE RECEPTACLE - 30 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA L6-30R. MOUNT AS DIRECTED FOR RACK UPS SYSTEM
- 250V DRYER RECEPTACLE; 4 WIRE; MT 14" AFF TO C/L; NEMA 10-30R; HUBBELL SERIES 9350
- 250V RANGE RECEPTACLE; 4 WIRE; MT 14" AFF TO C/L; NEMA 10-50R; HUBBELL SERIES 7962
- SINGLE RECEPTACLE - 30 AMP, 250 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 6-30R. MOUNT AS NEEDED FOR HVAC UNIT. COORDINATE AND PROVIDE EXACT NEMA CONFIGURATION OF RECEPTACLE WITH HVAC SUPPLIER.
- JUNCTION BOX SIZE NOTED OR REQUIRED, WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
- PHOTOCELL; TORK MODEL 2101 (120V)

ALL 120V RECEPTACLES ON THIS PROJECT SHALL BE TAMPER PROOF TYPE PER THE NATIONAL ELECTRIC CODE.

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
- S₃ A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT
- SM MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 20 AMP, 120/277 VOLT
- 30/1 SM MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 30 AMP, 120/277 VOLT
- S01 OCCUPANCY SENSOR WALL SWITCH, MULTI-TECHNOLOGY, SELF POWERED, SIMILAR TO LEVITON OSSMT-MD
- S_T A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT, 60-MINUTE TIME SWITCH SIMILAR TO INTERMATIC FT SERIES
- PUSH BUTTON, TOGGLE SWITCH, ROTARY SWITCH, ETC., FURNISHED WITH EQUIPMENT BY OTHERS, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

LIGHTING CONTROLS

- CEILING MOUNTED OCCUPANCY SENSOR
- POWER PACK FOR OCCUPANCY SENSOR
- ROOM CONTROLLER - 1 ZONE DIMMING
- ROOM CONTROLLER - 2 ZONE DIMMING
- ROOM CONTROLLER - EMERGENCY LIGHTING UL924 DEVICE
- ROOM CONTROLLER - ON/OFF NO DIMMING
- WALL DIMMER - ON/OFF & 0-10V 1-ZONE DIMMING
- WALL DIMMER - ON/OFF & 0-10V 2-ZONE DIMMING
- S_L LOW VOLTAGE SWITCH, 2-BUTTON
- S_{LX} LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL, 2-BUTTON
- S01 OCCUPANCY SENSOR WALL SWITCH, ULTRASONIC TECHNOLOGY, 1-BUTTON SIMILAR TO HUBBELL LIGHT HAWK 2

*COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS

TELEPHONE & TELEVISION SYSTEMS

- COMM OUTLET - SEE DETAILS SHEET E6.1.
- AC COMM OUTLET - MOUNT 6" ABOVE COUNTER; SEE DETAILS SHEET E6.1.
- COMM OUTLET - SEE DETAILS SHEET E6.2.
- CEILING OUTLET FOR WIRELESS INTERNET - SEE DETAILS SHEET E6.2.
- TELEVISION CABLE WALL OUTLET WITH COAXIAL SCREW JACK AND COVERPLATE, MOUNT AT HEIGHT DIRECTED BY ARCHITECT - 3/4" C STUBBED TO ABOVE CEILING
- COMMUNICATIONS FLOOR RACK - SEE DETAILS SHEET E6.2.
- TELEPHONE BACKBOARD - 3/4" EXTERIOR GRADE PLYWOOD WITH TWO COATS OF INSULATING VARNISH, SIZE AS SHOWN
- INTERCOM SPEAKER - DROP-IN CEILING TILE SPEAKER

CLOSED CIRCUIT TELEVISION

- CLOSED CIRCUIT TELEVISION CAMERA - INTERIOR; SEE DETAILS SHEET E6.2.

FIRE ALARM SYSTEM

- FIRE ALARM SYSTEM CONTROL PANEL
- FIRE ALARM SYSTEM REMOTE ANNUNCIATOR
- FIRE ALARM SYSTEM MANUAL PULL STATION
- WEATHERPROOF FIRE ALARM SYSTEM SIGNAL HORN
- FIRE ALARM SYSTEM VOICE EVAC SPEAKER/STROBE, WALL MOUNT
- FIRE ALARM SYSTEM VOICE EVAC SPEAKER/STROBE, CEILING MOUNT
- FIRE ALARM SYSTEM STROBE
- FIRE ALARM SYSTEM TAMPER SWITCH
- FIRE ALARM SYSTEM FLOW SWITCH
- FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR WITH CO DETECTOR BASE; CEILING MOUNTED
- FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
- FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
- FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN MECHANICAL DUCT
- FIRE ALARM SYSTEM REMOTE TEST STATION
- FIRE ALARM SYSTEM ZONE MODULE, CONTROL TYPE
- FIRE ALARM SYSTEM ZONE MODULE, MONITOR TYPE
- FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS
- FIRE ALARM SYSTEM SUPERVISED CIRCUITING IN CONDUIT, RACEWAY INSTALLED CONCEALED

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GRADE
- RUN CONCEALED IN CEILING OR WALLS
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 3/4" C; 3 #12, 1 #12 GROUND - 3/4" C; 4 #12, 1 #12 GROUND - 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #10, 1 #10 GROUND - 3/4" C; 3 #10, 1 #10 GROUND - 3/4" C; 4 #10, 1 #10 GROUND - 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #8, 1 #10 GROUND - 1" C; 3 #8, 1 #10 GROUND - 3/4" C; 4 #8, 1 #10 GROUND - 1 1/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- WHERE A NUMBER IS SHOWN NEXT TO OR ON THE CIRCUIT OR HOMERUN, THE NUMBER INDICATES CONDUCTOR SIZE OTHER THAN #12 - NUMBER #6 CONDUCTORS INDICATED. PROVIDE GROUND SIZED PER NEC TABLE 250-95 FOR MAX AMPACITY OF CONDUCTOR SIZE AS SHOWN. SIZE CONDUIT PER NEC ANNEX C.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES
- EMPTY CONDUIT WITH PULLWIRE RUN CONCEALED IN CEILING OR WALLS
- EMERGENCY CIRCUITRY CONNECTED TO GENERATOR RUN CONCEALED IN CEILING OR WALLS

FLOOR BOX

- RECESSED FLOOR BOX - QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, PROVIDE WITH 8 GANGS, ARCHITECT TO SELECT COLORS, SIMILAR TO WALKER EVOLUTION SERIES EFBS-06/EFB610CTR/EFB610BTK OR PRIOR APPROVED EQUALS. FOR TYPICAL UNITS - PROVIDE TWO 1 1/4" CONDUITS TO ABOVE CEILING PROVIDE TWO CAT 6 RJ-45 JACKS AND CABLES BACK TO MDF/IDF PROVIDE BARE CONCRETE RING WHERE INSTALLED IN FINISHED CONCRETE FLOORS

PANELS AND POWER

- PANELBOARD
- PANELBOARD FLUSH MOUNTED
- CONTROL PANEL
- NON-FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
- FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING; FURNISH AND INSTALL FUSES PER MANUFACTURER'S RECOMMENDATIONS
- MOTOR FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL CONTRACTOR; 'S' INDICATES HORSE POWER RATING
- CIRCUIT BREAKER
- NONFUSIBLE SWITCH
- FUSIBLE SWITCH
- DRAWOUT CONNECTION
- TRANSFORMER
- ENCLOSED CIRCUIT BREAKER
- ELECTRIC METER
- GROUNDING ELECTRODE CONNECTION
- GROUND BUSS

MISCELLANEOUS EQUIPMENT

- CONTACTOR
- WATER HEATER
- TIME CLOCK
- MOTORIZED DAMPER
- JUNCTION BOX TRAP PRIMER

MISCELLANEOUS

- A AMPERE
- ADA AMERICANS WITH DISABILITIES ACT
- AFF ABOVE FINISH FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- ATS AUTOMATIC TRANSFER SWITCH
- C CONDUIT
- CL CENTER LINE
- CWP COLD WATER PIPE
- EM EMERGENCY
- EMT ELECTRIC METALLIC TUBING
- GFI GROUND FAULT INTERRUPTER
- GRC GALVANIZED RIGID METAL CONDUIT
- GRD GROUND
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MLO MAIN LUGS ONLY
- MT MOUNT
- N NEUTRAL
- NIC NOT IN CONTRACT
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NL NIGHT LIGHT
- NTS NOT TO SCALE
- P POLE
- PF POWER FACTOR
- PH PHASE
- PNL PANEL
- PVC PVC (POLYVINYL CHLORIDE) CONDUIT
- SLD SINGLE LINE DIAGRAM
- TBB TELEPHONE BACKBOARD
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSORS
- UL UNDERWRITERS LABORATORY
- UNLESS NOTED OTHERWISE
- UL VOLTAGE
- W WIRE
- WP WEATHERPROOF
- # NUMBER
- SR NEMA 3R WEATHERPROOF ENCLOSURE
- 4X NEMA 4X WEATHERPROOF/CORROSION ENCLOSURE

GENERAL ELECTRICAL NOTES:

1. THE NEW SERVICE VOLTAGE TO THIS FACILITY IS 120/208V, 3 PHASE, 4 WIRE.
2. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN ALL CLEARANCES FOR ELECTRICAL EQUIPMENT PER THE NEC.
4. COORDINATE ROUGH-IN OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. AVOID ALL BACKSPASHES AT COUNTERS.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD, AND COORDINATING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
6. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGH-IN OF LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION.
7. THE LOCATION OF OUTLETS, FIXTURES, AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE, OFFSET AS NEEDED OR AS REQUESTED BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
8. COORDINATE EXACT LOCATION OF ALL ELECTRICAL FLOOR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
9. ALL CONDUIT SIZE SHALL BE A MINIMUM 3/4" UNLESS NOTED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS.
10. ALL ELECTRICAL RACEWAYS AND CABLING SHALL BE INSTALLED CONCEALED WITHIN THE CONFINES OF THE BUILDING FOUNDATIONS EXCEPT THOSE SPECIFICALLY SERVING LOADS OR EQUIPMENT EXTERIOR OF THE BUILDING. ALL SUCH RACEWAYS SHALL BE A MINIMUM 18" INSIDE FOUNDATIONS AND POWER AND COMMUNICATIONS RACEWAYS SHALL BE SEPARATED BY A MINIMUM 18".
11. ALL CONDUITS INSTALLED UNDERFLOOR SHALL BE ROUTED UNDER STRUCTURAL CONCRETE FLOOR SLABS. CONTRACTOR SHALL NOT INSTALL CONDUITS IN CONCRETE FLOORING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. CONDUITS PENETRATING THRU CONCRETE FLOORS SHALL ADHERE TO THE ELECTRICAL SPECIFICATIONS AND RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.
12. ALL RACEWAYS INSTALLED ON EXTERIOR OF THE BUILDING, INCLUDING CONDUIT UNDER CANOPIES, SHALL BE GRC. EMT WILL NOT BE ACCEPTED.
13. ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX. RACEWAYS SUPPORTED ON BOTTOM OF SECONDARY CEILING SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM THE GYPSBOARD CEILING.
14. ALL EMPTY WALL MOUNTED JUNCTION BOXES SHALL BE PROVIDED WITH A WALL BLANK AND ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A PULL WIRES.
15. PROVIDE ALL CONDUIT STUBS WITH A PROTECTIVE COLLAR.
16. INSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
17. PROVIDE A CONDUIT EXPANSION JOINTS WITH BONDING JUMPER IN ALL CONDUITS CROSSING AN EXPANSION JOINT. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.
18. ALL UNDERGROUND CONDUITS RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
19. ALL FLEXIBLE CONDUITS ON THE EXTERIOR, IN WET LOCATIONS OR ANY MECHANICAL ROOM SHALL BE LIQUID TIGHT WITH SUITABLE FITTINGS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENINGS SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK ARE INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS FINISHED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
21. HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT & HUMIDISTATS OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC, WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.
22. ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL HAVE AN EMERGENCY BATTERY BALLAST CONNECTED AHEAD OF LOCAL SWITCHING.
23. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. PROVIDE PROPER NUMBER OF POWER PACKS AND LOCATE POWER PACKS AND OCCUPANCY SENSORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
24. ALL JUNCTION BOX COVERS ABOVE THE CEILING SHALL BE CLEARLY MARKED WITH WHICH CIRCUITS OR ELECTRICAL SYSTEM THEY CONTAIN.
25. HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC, WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.

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SHEET TITLE : ELECTRICAL LEGEND & NOTES

 MCKEE JOB # : 22-315

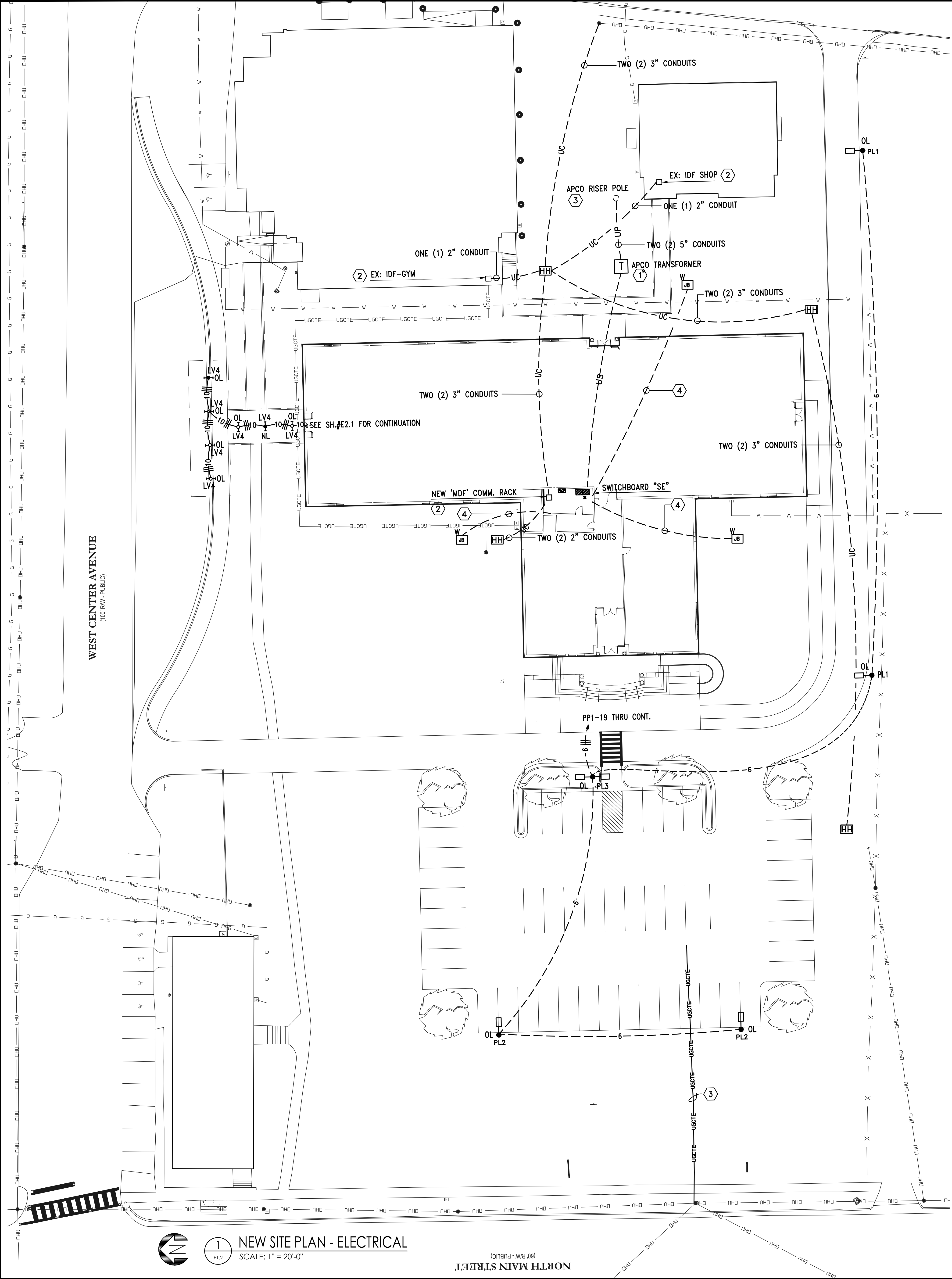
 DRAWN BY : AHB
 DATE : 8/27/2024

 REVISED DATE :
 REVISED DATE :
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SHEET NO. : **E0.1**



UNDERGROUND UTILITY NOTES:

1. THE UNDERGROUND UTILITY PORTION OF THIS PROJECT CONSISTS OF BUT IS NOT LIMITED TO:
 - a. TRENCHING/BACKFILLING FOR DUCT LINES AND CONDUIT SYSTEMS
 - b. LOW VOLTAGE CONDUCTOR INSTALLATION
 - c. PATCH/REPAIR ALL DAMAGED SURFACES AS A RESULT OF DUCTLINE INSTALLATIONS
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND THE NATIONAL ELECTRICAL CODE (NEC).
3. ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, SUPPORTS, FRAMES, CASES, CONDUIT SYSTEMS AND SURGE ARRESTORS, CABLE SHEATHS, CABLE SHIELDS, COMMON NEUTRALS, ETC., SHALL BE GROUNDED. UNLESS NOTED OTHERWISE CONNECTIONS BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION-WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
4. ALL CLEARANCES SHALL BE MAINTAINED PER NEC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
6. UNLESS OTHERWISE SHOWN OR DIRECTED DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES. WHERE DUCT LINES ARE REQUIRED TO CROSS OTHER UTILITIES SUCH AS SEWERS, WATER LINES, OTHER POWER LINES, COMMUNICATION LINES, ETC., ADEQUATE SUPPORT SHALL BE PROVIDED ON EACH SIDE OF THE CROSSING TO PREVENT TRANSFERRING ANY DIRECT LOAD ONTO THE OTHER LINE. DUCT LINES SHALL BE SO INSTALLED AS TO PREVENT HEAT TRANSFER BETWEEN ANY HEAT PRODUCING LINES AND/OR EQUIPMENT TO DUCT LINES.
 - a. ROUTING SHOWN ON DRAWINGS IS TYPICAL AND THE CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED UPON ACTUAL FIELD DIMENSIONS, CONDITIONS AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
 - b. PRIOR TO TRENCHING, THE CONTRACTOR SHALL STAKE OUT THE ENTIRE NETWORK ARRANGEMENT. ONE GRADE A WOODEN STAKE WITH RED FLAG SHALL BE DRIVEN EVERY 50'-0" AND AT EACH CHANGE OF DIRECTION, FOUR STAKES SHALL BE DRIVEN TO OUTLINE EQUIPMENT AND/OR MANHOLE LOCATIONS. ON PAVEMENTS RED PAINT SHALL BE USED TO OUTLINE THE AREAS TO BE CUT. SECURE EXISTING UNDERGROUND UTILITY INFORMATION FROM THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY TRENCHING.
 - c. DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM. ACTUAL DEPTHS MAY VARY DUE TO TERMINATIONS, COMPENSATIONS FOR RADIUS OF VERTICAL TRANSITIONS, EXISTING UTILITY CROSSINGS, ETC.. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED. TRENCHES SHALL BE OVER-EXCAVATED AS NECESSARY TO ALLOW FOR PROPER TRENCH PREPARATION, DUCT BANK CONSTRUCTION, FORMING AND/OR BACKFILLING REQUIREMENTS.
 - d. ALL TRENCHING AND BACKFILL COMPACTION SHALL COMPLY WITH GEOTECHNICAL REPORT AND DIVISION 200.

GENERAL NOTES:

1. LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.
2. ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. PRIMARY CONDUIT SHALL BE MINIMUM 48" BELOW GRADE.
3. ALL ROUTING IS SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
4. CONTRACTOR SHALL LABEL ALL CONDUITS ENTERING BACKBOARDS.
5. COORDINATE WITH POWER RISER DIAGRAMS FOR FEEDER AND CONDUIT SIZES AND ALL OTHER ADDITIONAL REQUIREMENTS NOT SHOWN ON SITE PLAN.
6. SEE SHEET E1.3 FOR TYPICAL TRENCH/DUCT DETAILS FOR ALL SURFACES. WORK SHALL COMPLY WITH DETAILS.
7. SEE COMMUNICATIONS RISER DIAGRAMS ON SHEET E7.1 FOR ADDITIONAL REQUIREMENTS. PROVIDE 1500LB MULE TAPE IN EVERY COMM CONDUIT.

SITE LEGEND

—OHP—	OVERHEAD ELECTRICAL BY UTILITY	HH	NEW IN GRADE PULLBOX. PROVIDE 30"x48"x30"D IN-GRADE JUNCTION BOX FOR COMMUNICATIONS SYSTEM. BOX SHALL BE COMPOSITE MATERIAL OF HIGH STRENGTH WITH COVER AND STAINLESS STEEL INSERTS. COVER SHALL HAVE LOGO INDICATING CONTENTS WITHIN COMMUNICATIONS BOX SHALL BE DESIGNED FOR HEAVY TRAFFIC AREAS. MOUNT COVER FLUSH WITH GRAD. MOUNT ON A 12 INCH GRAVEL BED WITH 9 INCHES OF CONCRETE AROUND PERIMETER AND A 3 INCH SOIL TOP. SUBMIT BOX AND COVERS FOR APPROVAL. BOX TO BE EQUAL TO CDR SYSTEMS CORP., MEDEL #A10-3048-30.
—OHS—	OVERHEAD SECONDARY	W	8"x8"x4" WEATHERPROOF JUNCTION BOX. INSTALL TOP OF BOX FLUSH WITH GRADE.
—UP—	UNDERGROUND PRIMARY		
—US—	UNDERGROUND SECONDARY		
—UC—	UNDERGROUND COMMUNICATION		
—OHC—	OVERHEAD COMMUNICATION		
T	NEW PAD MOUNTED TRANSFORMER		

SHEET NOTES:

1. PROPOSED LOCATION OF NEW 120/208V, 3PH, 4W. PAD MOUNTED TRANSFORMER BY APCO. CONFIRM LOCATION WITH APCO PRIOR TO BIDS AND ADJUST SECONDARY AND PRIMARY AS REQUIRED. PROVIDE CONCRETE PAD FOR TRANSFORMER AND UTILITY METER AS REQUIRED BY APCO. SEE POWER RISER DIAGRAM 2/E6.1.
2. PROVIDE FIBER OPTIC CABLING PER COMM RISER 6/E7.1. ONCE NEW SERVICE IS ESTABLISHED IN NEW BUILDING.
3. PROPOSED LOCATION OF RISER POLE BY APCO. CONFIRM LOCATION WITH APCO PRIOR TO BIDS AND ADJUST SECONDARY AND PRIMARY AS REQUIRED.
4. PROVIDE TWO (2) 1-1/4" CONDUITS AND ONE (1) 2" CONDUIT TO EXTERIOR JUNCTION BOX. DO NOT STUB CONDUITS INTO PANELS. STUB UP ABOVE FLOOR AND PROVIDE PULLSTRINGS AND CAP. PULLSTRINGS WILL BE REQUIRED TO BE VISIBLE AT BOTH ENDS DURING INSPECTION.

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MCKEE & ASSOCIATES
 ARCHITECTS, INC.



SHEET TITLE : NEW SITE PLAN - ELECTRICAL

MCKEE JOB # : 22-315

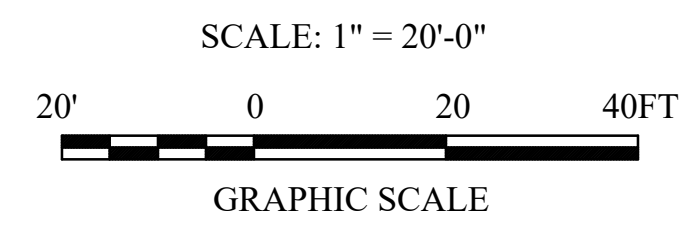
DRAWN BY : AHB

DATE : 8/27/2024

REVISED DATE :

REVISED DATE :

REVISED DATE :



Gunn & Associates, P.C.
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 3102 Highway 14
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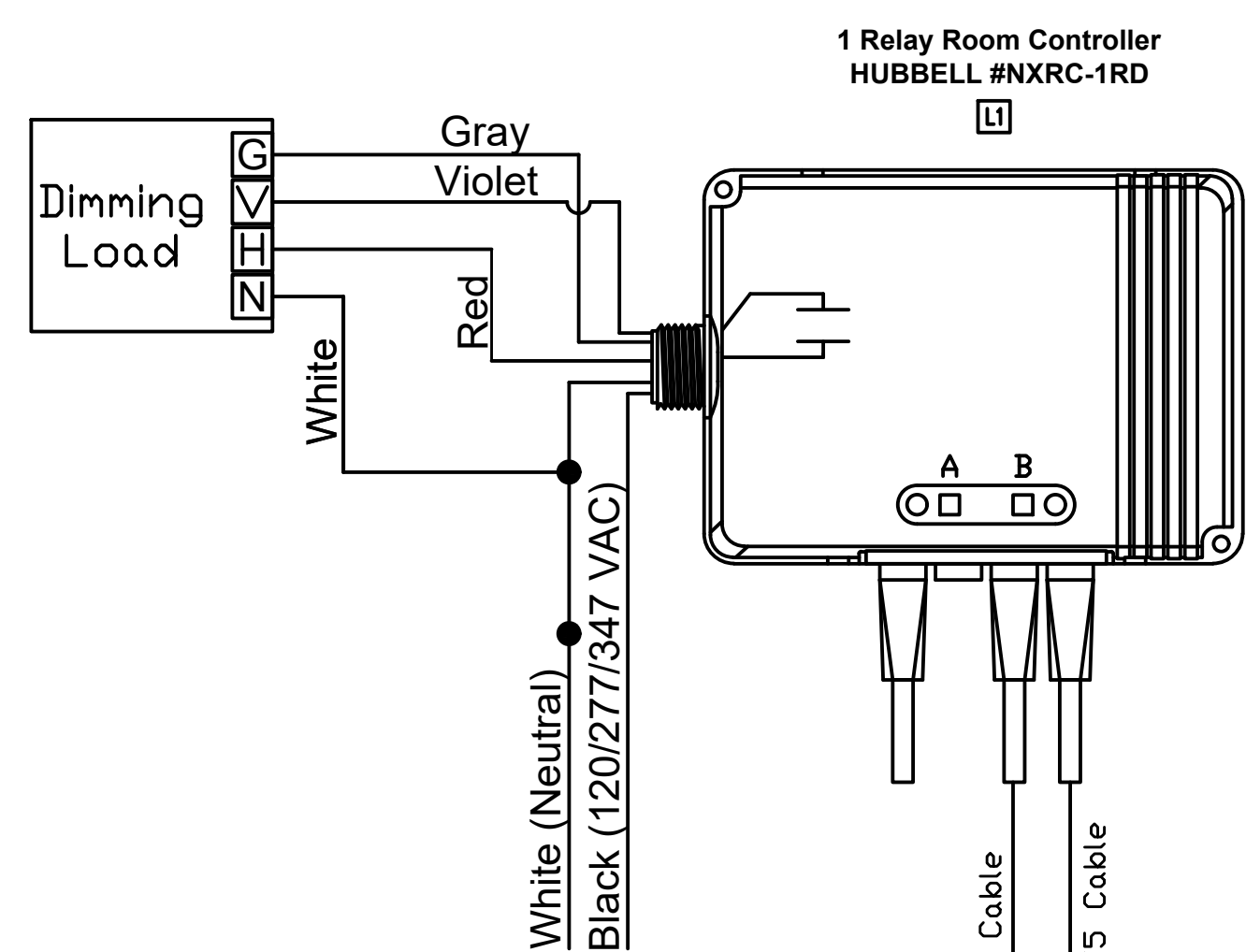
1200 Providence Park, Suite 200
 Birmingham, AL 35242
 GAV24-110

SHEET NO. : **E1.2**

-USUALING-NQUZ4Z4Z-TTUJUNENFUSCHS-CHULULURAMINGSBEEZ4-TU E1.1.DWG
 -Thursday, August 29, 2024 11:21:24 AM

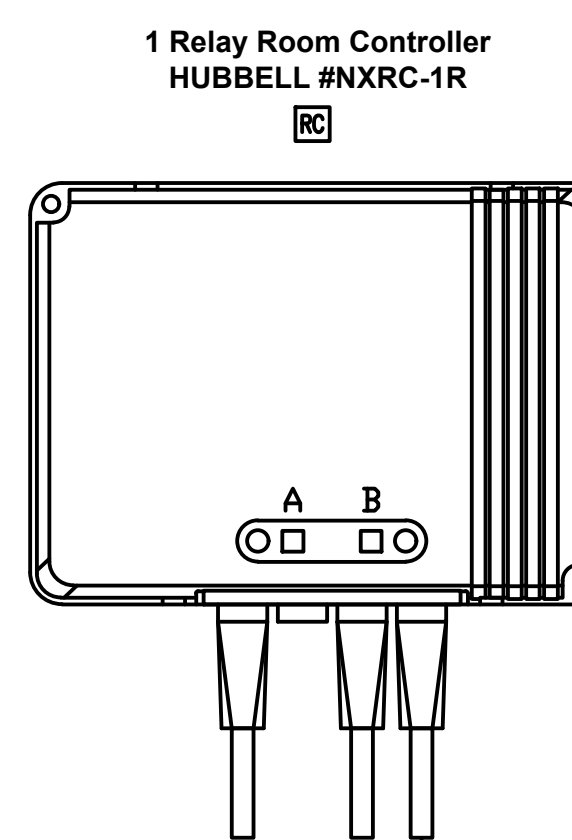
OCCUPANCY SENSOR AND CONTROL NOTES:

- OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME. OCCUPANCY SENSOR MANUFACTURER PROVIDER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING CONTROL SYSTEMS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
- ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
- LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND THE HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHTING CONTROL SYSTEM SUBMITS FOR APPROVAL AND IS PROVIDED.
- WATT STOPPER AND N-LIGHT ARE APPROVED EQUALS.
- CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GND.
- PROVIDE A UL924 DEVICE FOR THE LIGHTING CONTROLS SUCH THAT UPON POWER LOSS THE LOCAL CONTROLS IS BYPASSED TO ALLOW THE EMERGENCY LIGHTS TO ILLUMINATE 100%. ALL EMERGENCY LIGHTS.



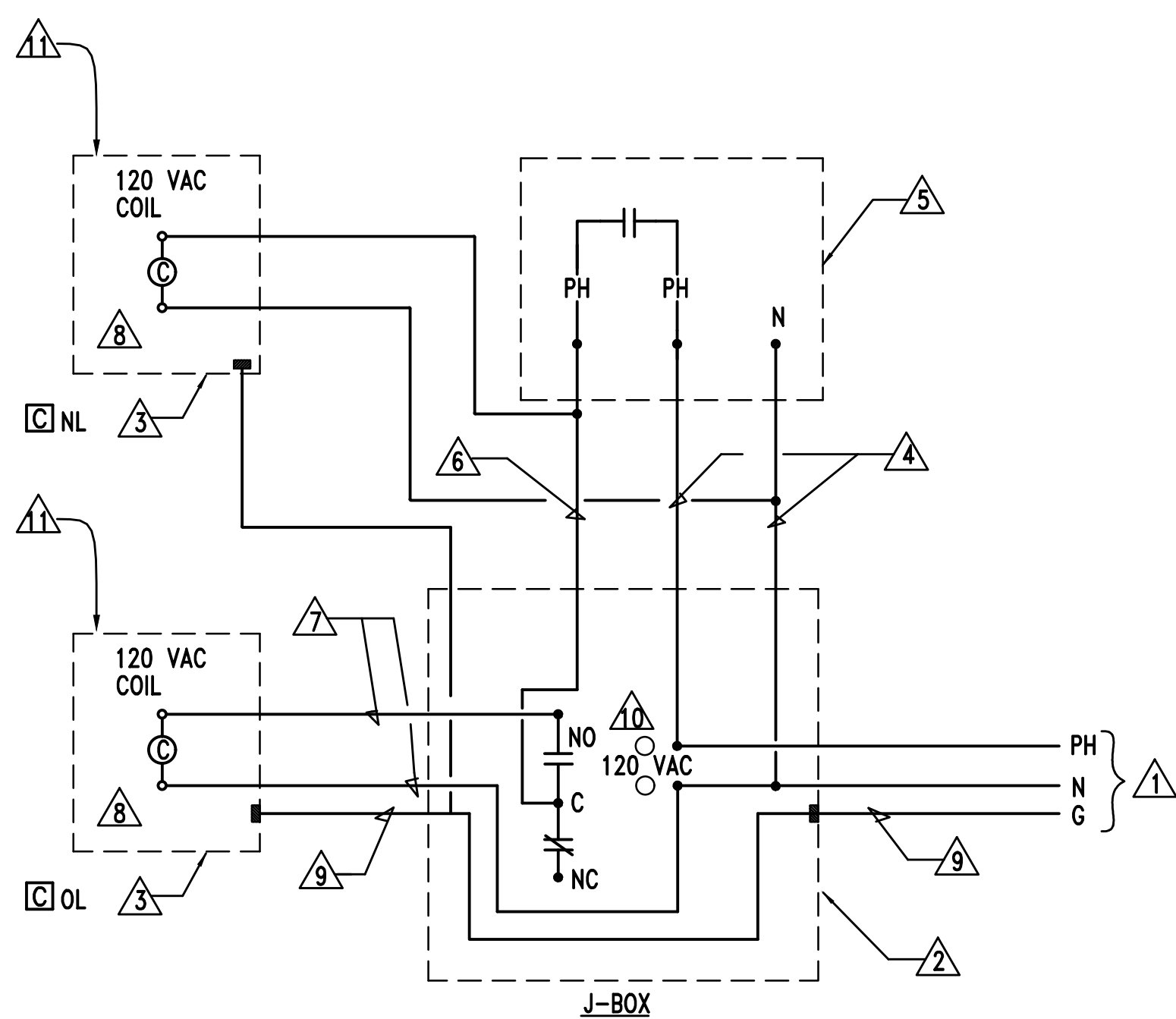
1 TYPICAL OCCUPANCY SENSOR AND SINGLE 0-10V DIMMING SYSTEM DETAIL

E2.2 NO SCALE



2 TYPICAL CEILING OCCUPANCY SENSOR SYSTEM DETAIL

E2.2 NO SCALE

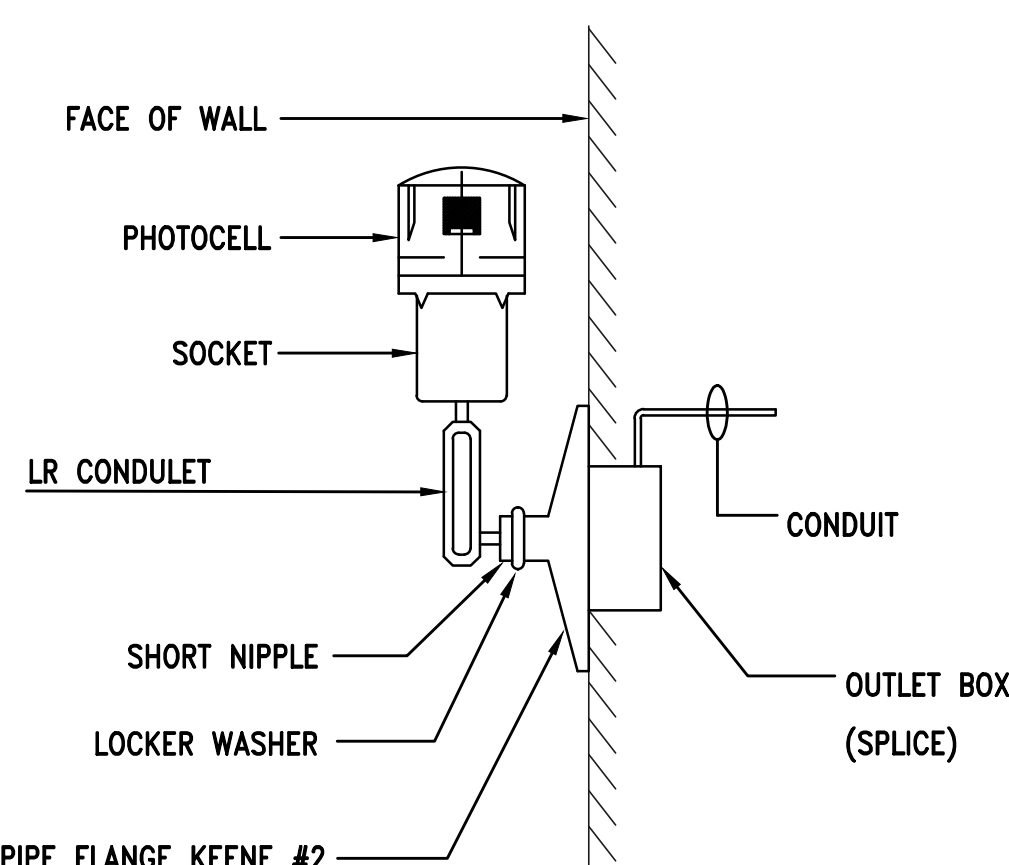


KEYED NOTES

- POWER SUPPLY - 120V, 1PH, 60HZ
- TIME SWITCH ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
- CONTACTOR ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
- POWER TAP TO PHOTO-CELL IN GRC
- TURN-LOCK PHOTO-CELL, SEE DETAIL
- SWITCH LEG RETURN IN GRC
- POWER TO CONTACTOR COIL
- LIGHTING CONTACTOR \square NL & \square OL AS FOLLOWS:
 - NEMA ICS 2-211B INDUSTRIAL DUTY TYPE
 - ELECTRICALLY OPERATED-ELECTRICALLY HELD
 - RATING AND NUMBER OF POLES INDICATED
 - CONTACTS SHALL BE SILVER ALLOY, DOUBLE-BREAK, SUITABLE FOR TUNGSTEN, BALLAST LIGHTING, RESISTANCE AND MOTOR LOADS
 - FUSING FOR CONTROL CIRCUIT
- GROUND CONDUCTOR - BOND TO EACH ENCLOSURE AND INSTALL IN EACH CONDUIT SYSTEM
- DIGITAL TIME SWITCH AS FOLLOWS:
 - ONE CHANNEL WITH 24 HOUR, SEVEN DAY PROGRAMMING AND SKIP-A-DAY FEATURE
 - INPUT: 120 VAC, 60HZ
 - OUTPUT: DPST DRY CONTACTS (UNPOWERED)
 - HEAVY DUTY CONTACTS RATED 20 AMPERE RESISTIVE AT 120 VAC
 - TEMPERATURE RANGE: -20 TO +60 DEGREES CELSIUS
 - RELATIVE HUMIDITY: 0 TO 90% RH
 - CLOCK ACCURACY: ± 2 MINUTES PER YEAR
 - LED INDICATION OF TIME AND LOAD STATUS
 - FULL WEEK'S RESERVE POWER (BATTERY BACK-UP)
- PROVIDE NUMBER OF POLES REQUIRED.

3 DETAIL - TYPICAL OPERATION OF TIME SWITCH/PHOTO-CELL/CONTACTOR

E2.2 NO SCALE

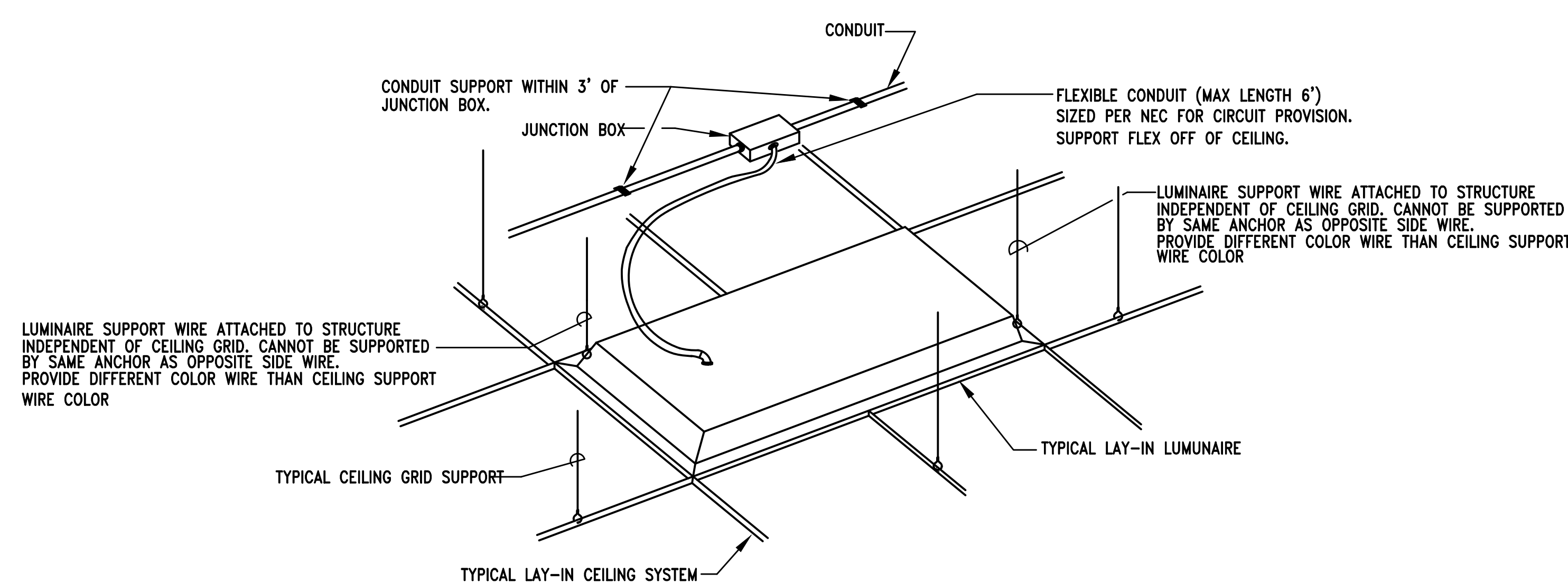


NOTES

- PAINT CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
- COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
- PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.

4 DETAIL - INSTALLATION OF PHOTO-CELL

E2.2 NO SCALE



NOTES:

- ALL RECESSED LUMINAIRES SHALL BE WIRED FROM A JUNCTION BOX AS SHOWN, INCLUDING LUMINAIRES IN A CONTINUOUS ROW. NO WIRING THRU FIXTURES. NO MORE THAN TWO LUMINAIRES SHALL BE CIRCUITED TO ONE JUNCTION BOX.
- LUMINAIRE SUPPORT WIRES TO BE A MINIMUM OF #14 GAGE PRE-STRAINED GALVANIZED WIRE ATTACHED AT OPPOSITE CORNERS. LUMINAIRE SHALL BE SUPPORTED TO THE STRUCTURE INDEPENDENT OF THE CEILING GRID.
- CONDUCTORS IN FLEXIBLE CONDUIT FROM JUNCTION BOX TO LUMINAIRE SHALL CONTAIN AN INSULATED GREEN GROUND WIRE, WITH NEUTRAL AND PHASE CONDUCTORS REQUIRED FOR THE CIRCUITING AND SWITCHING REQUIREMENTS INDICATED.
- JUNCTION BOXES SHALL BE ACCESSIBLE AND LOCATED WITHIN 1'-6" ABOVE LAY-IN CEILING INSTALLATION. PROVIDE PENDANT ALL-THREAD RODS AND/OR STRUT ASSEMBLIES TO MEET THIS REQUIREMENT WHERE DROP CEILING IS MORE THAN 1'-6" FROM STRUCTURE.
- CONTRACTOR SHALL INSTALL ALL T-BAR SAFETY CLIPS TO GRID. IF FIXTURE DOES NOT COME WITH GRID SAFETY CLIPS, THEN THE CONTRACTOR SHALL PROVIDE SUPPORT WIRES ON ALL FOUR SIDES.

5 DETAIL - TYPICAL LAY-IN LUMINAIRE INSTALLATION

E2.2 NO SCALE

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SHEET TITLE : LIGHTING CONTROLS, DETAILS & NOTES

MCKEE JOB # : 22-315

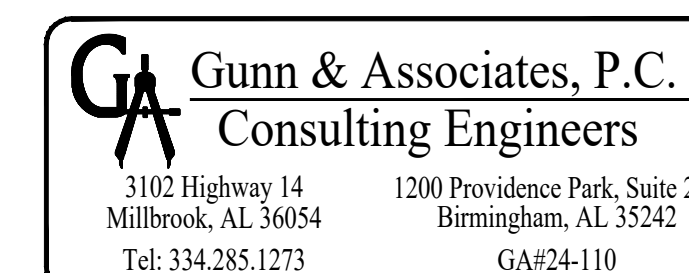
DRAWN BY : AHB

DATE : 8/27/2024

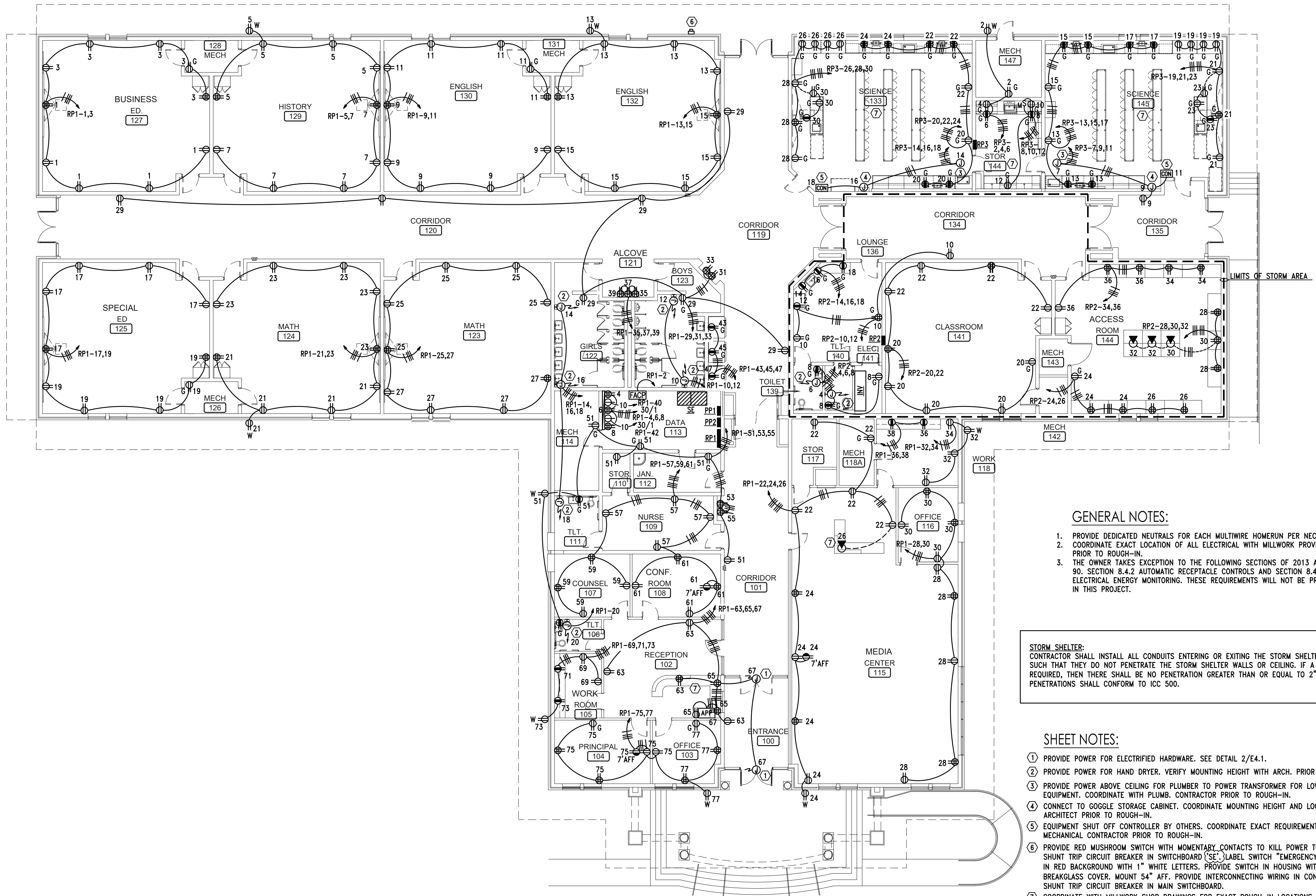
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SHEET NO. : **E2.2**



GENERAL NOTES:

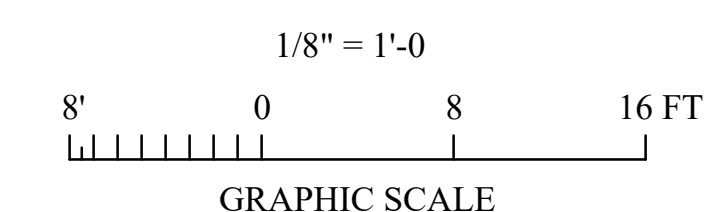
1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. THE OWNER TAKES EXCEPTION TO THE FOLLOWING SECTIONS OF 2013 ASHRAE 90. SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS AND SECTION 8.4.3 ELECTRICAL ENERGY MONITORING. THESE REQUIREMENTS WILL NOT BE PROVIDED IN THIS PROJECT.

STORM SHELTER:
 CONTRACTOR SHALL INSTALL ALL CONDUITS ENTERING OR EXITING THE STORM SHELTER UNDERGROUND SUCH THAT THEY DO NOT PENETRATE THE STORM SHELTER WALLS OR CEILING. IF A PENETRATION IS REQUIRED, THEN THERE SHALL BE NO PENETRATION GREATER THAN OR EQUAL TO 2" OR ABOVE. ALL PENETRATIONS SHALL CONFORM TO ICC 500.

SHEET NOTES:

- ① PROVIDE POWER FOR ELECTRIFIED HARDWARE. SEE DETAIL 2/E4.1.
- ② PROVIDE POWER FOR HAND DRYER. VERIFY MOUNTING HEIGHT WITH ARCH. PRIOR TO ROUGH-IN.
- ③ PROVIDE POWER ABOVE CEILING FOR PLUMBER TO POWER TRANSFORMER FOR LOW VOLTAGE EQUIPMENT. COORDINATE WITH PLUMB. CONTRACTOR PRIOR TO ROUGH-IN.
- ④ CONNECT TO GOGGLE STORAGE CABINET. COORDINATE MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- ⑤ EQUIPMENT SHUT OFF CONTROLLER BY OTHERS. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ⑥ PROVIDE RED MUSHROOM SWITCH WITH MOMENTARY CONTACTS TO KILL POWER TO THE MAIN SHUNT TRIP CIRCUIT BREAKER IN SWITCHBOARD (SEE LABEL SWITCH "EMERGENCY POWER OFF" IN RED BACKGROUND WITH 1" WHITE LETTERS. PROVIDE SWITCH IN HOUSING WITH WEATHPROOF BREAKGLASS COVER. MOUNT 54" AFF. PROVIDE INTERCONNECTING WIRING IN CONDUIT TO THE SHUNT TRIP CIRCUIT BREAKER IN MAIN SWITCHBOARD.
- ⑦ COORDINATE WITH MILLWORK SHOP DRAWINGS FOR EXACT ROUGH-IN LOCATIONS OF OUTLETS IN THIS ROOM PRIOR TO ROUGH-IN.

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



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 12000 Providence Park, Suite 200
 Birmingham, AL 35242
 GA#24-110

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SHEET TITLE : ELECTRICAL PLAN - POWER

MCKEE JOB # : 22-315

DRAWN BY : AHB

DATE : 8/27/2024

REVISED DATE : 9/12/2024

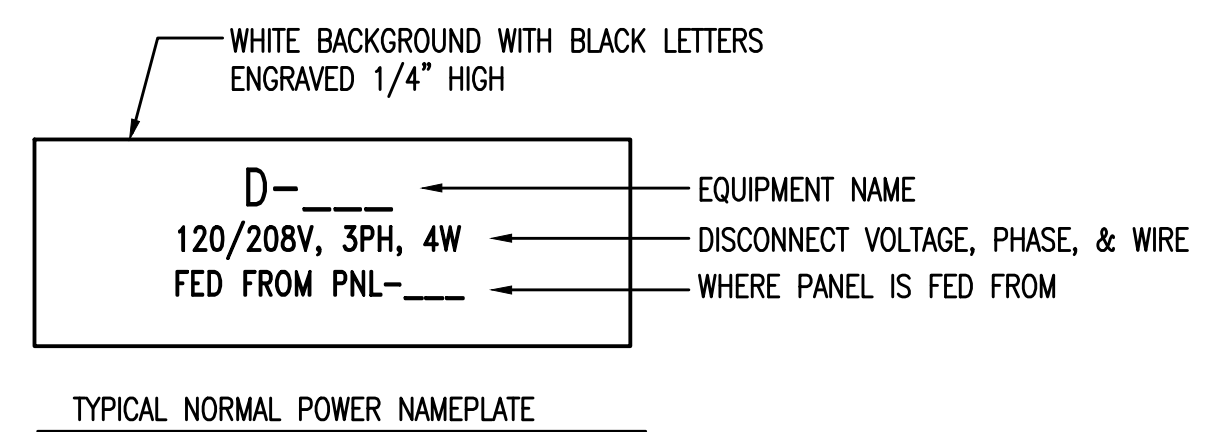
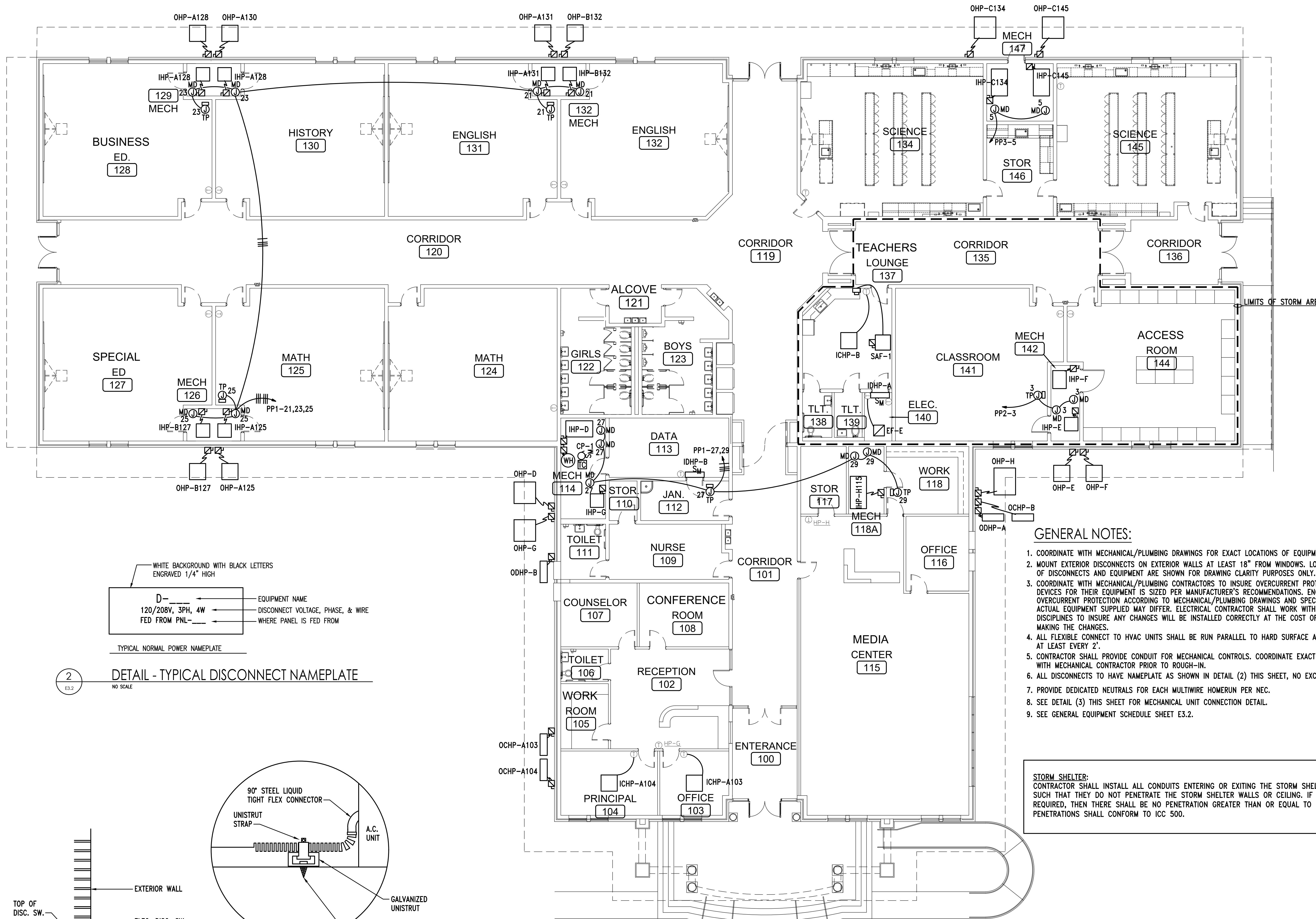
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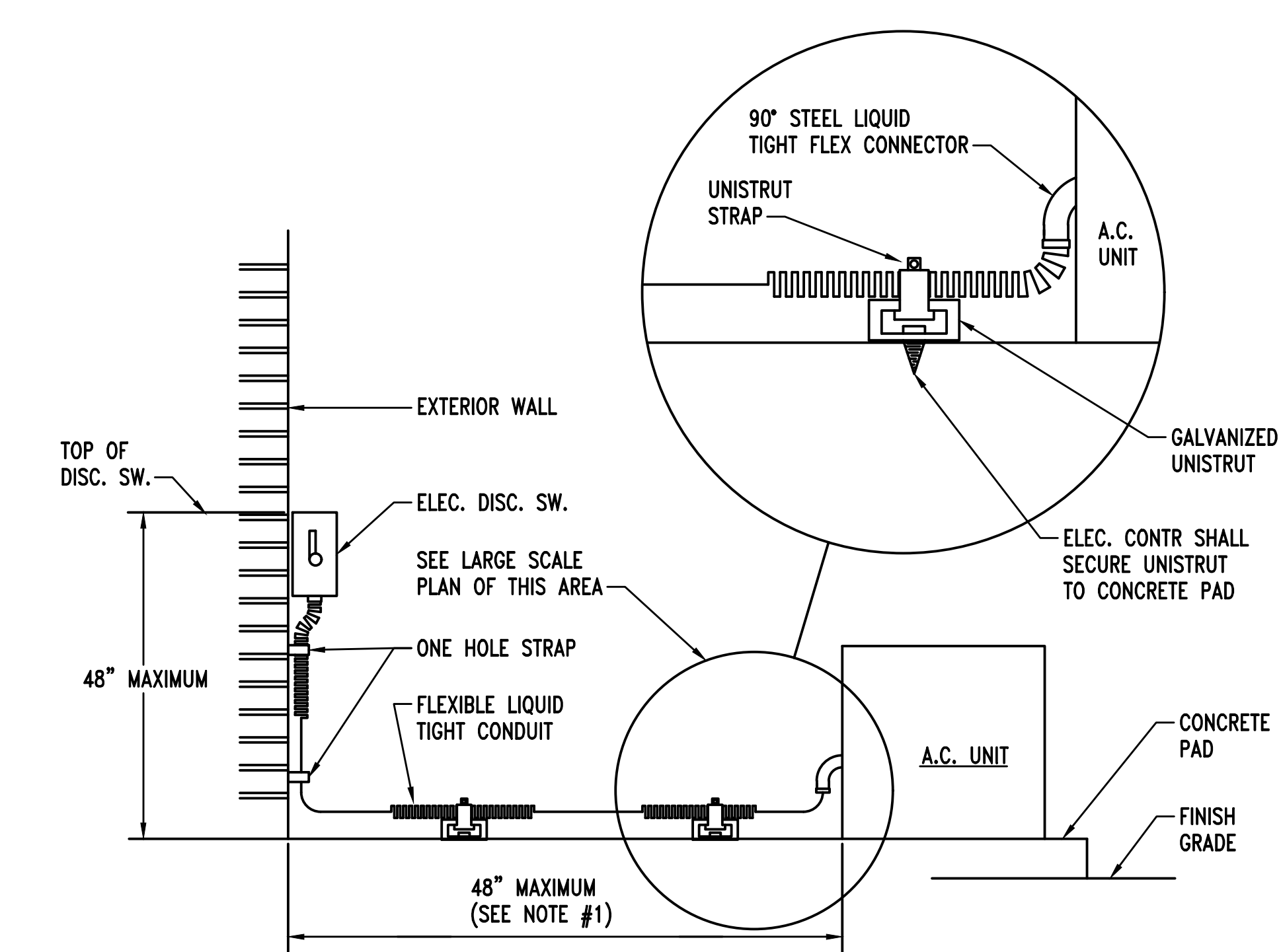
SHEET NO. : **E3.1**

MCKEE & ASSOCIATES
 ARCHITECTS, I.N.C.
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

-US:ALUMES-NL:02/24/24-110 LINDEN HIGH SCHOOL ELECTRICAL PLAN 24-110 E3.1.DWG
 - Thursday, September 12, 2024 4:17:29 PM



2 DETAIL - TYPICAL DISCONNECT NAMEPLATE
NO SCALE



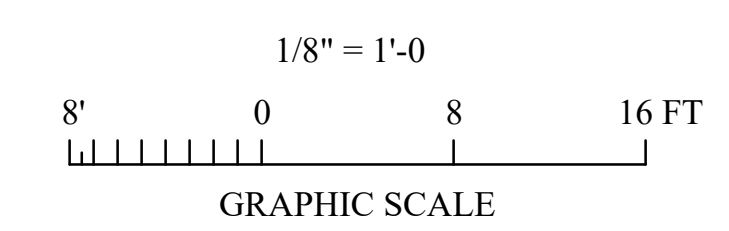
NOTE:
1. FOR DISTANCE GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE WITH 6" OF MECH. UNIT, STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.

3 MECHANICAL UNIT CONNECTION DETAIL
NO SCALE

- GENERAL NOTES:**
- COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
 - MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
 - COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
 - ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
 - CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.
 - PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
 - SEE DETAIL (3) THIS SHEET FOR MECHANICAL UNIT CONNECTION DETAIL.
 - SEE GENERAL EQUIPMENT SCHEDULE SHEET E3.2.

STORM SHELTER:
CONTRACTOR SHALL INSTALL ALL CONDUITS ENTERING OR EXITING THE STORM SHELTER UNDERGROUND SUCH THAT THEY DO NOT PENETRATE THE STORM SHELTER WALLS OR CEILING. IF A PENETRATION IS REQUIRED, THEN THERE SHALL BE NO PENETRATION GREATER THAN OR EQUAL TO 2" OR ABOVE. ALL PENETRATIONS SHALL CONFORM TO ICC 500.

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



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SHEET TITLE : ELECTRICAL PLAN - MECHANICAL POWER
MCKEE JOB # : 22-315
DRAWN BY : AHB
DATE : 8/27/2024
REVISED DATE :
REVISED DATE :
REVISED DATE :

SHEET NO. : E3.2

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-USUAL/MS-N/CL/24/24-110-LINDEN-FLOOR PLAN MECH-24-110-E3.2.dwg
- Thursday, August 29, 2024 11:25:58 AM

GENERAL EQUIPMENT SCHEDULE									
EQUIP. MARK	EQUIPMENT DESCRIPTION	VOLTAGE/ PHASE	ELECTRICAL CHARACTERISTICS			DISCONNECT	FUSE	HOMERUN	FEEDER
			HP	KW	AMPS				
CP-1	RECIRC PUMP	120V/1PH				TS	RP1-44	2#12, 1#12G, 3/4"C	
EF-A122	EXHAUST FAN	120V/1PH		0.350		TS	NOTE 7	2#12, 1#12G, 3/4"C	
EF-A123	EXHAUST FAN	120V/1PH		0.350		TS	NOTE 7	2#12, 1#12G, 3/4"C	
EF-B108	EXHAUST FAN	120V/1PH		0.084		TS	NOTE 7	2#12, 1#12G, 3/4"C	
EF-B111	EXHAUST FAN	120V/1PH		0.084		TS	NOTE 7	2#12, 1#12G, 3/4"C	
EF-C	EXHAUST FAN	120V/1PH	1/2			TS	NOTE 7	2#12, 1#12G, 3/4"C	
EF-D	EXHAUST FAN	120V/1PH	1/2			TS	NOTE 7	2#12, 1#12G, 3/4"C	
EF-E	EXHAUST FAN	120V/1PH		0.084		TS	INV	2#12, 1#12G, 3/4"C	
EF-F138	EXHAUST FAN	120V/1PH		0.084		TS	NOTE 7 / INV	2#12, 1#12G, 3/4"C	
EF-F139	EXHAUST FAN	120V/1PH		0.084		TS	NOTE 7 / INV	2#12, 1#12G, 3/4"C	
ICHP-A103	INDOOR CEILING SPLIT	208V/1PH			1.5	TS	NOTE 9	2#12, 1#12G, 3/4"C	
ICHP-A104	INDOOR CEILING SPLIT	208V/1PH			1.5	TS	NOTE 9	2#12, 1#12G, 3/4"C	
ICHP-B	INDOOR CEILING SPLIT	208V/1PH			1.5	TS	NOTE 9	2#12, 1#12G, 3/4"C	
IDHP-A	INDOOR DUCTLESS SPLIT	208V/1PH			1.5	TS	NOTE 9	2#12, 1#12G, 3/4"C	
IDHP-B	INDOOR DUCTLESS SPLIT	208V/1PH			1.5	TS	NOTE 9	2#12, 1#12G, 3/4"C	
IHP-A125	INDOOR HEAT PUMP	208V/3PH	1/2	10		60/3/1	F PP2-2.4.6	3#8, 1#10G, 1"C	
IHP-A128	INDOOR HEAT PUMP	208V/3PH	1/2	10		60/3/1	F PP2-14.16.18	3#8, 1#10G, 1"C	
IHP-A130	INDOOR HEAT PUMP	208V/3PH	1/2	10		60/3/1	F PP2-20.22.24	3#8, 1#10G, 1"C	
IHP-A131	INDOOR HEAT PUMP	208V/3PH	1/2	10		60/3/1	F PP2-26.28.30	3#8, 1#10G, 1"C	
IHP-B127	INDOOR HEAT PUMP	208V/3PH	3/4	12		60/3/1	F PP2-8.10.12	3#6, 1#10G, 1 1/4"C	
IHP-B132	INDOOR HEAT PUMP	208V/3PH	3/4	12		60/3/1	F PP2-32.34.36	3#6, 1#10G, 1 1/4"C	
IHP-C134	INDOOR HEAT PUMP	208V/3PH	2	25		100/3/1	F SE-5.7.9	3#1, #8G, 2"C	
IHP-C145	INDOOR HEAT PUMP	208V/3PH	2	25		100/3/1	F SE-8.10.12	3#1, #8G, 2"C	
IHP-D	INDOOR HEAT PUMP	208V/3PH	2	20		100/3/1	F SE-2.4.6	3#3, #8G, 1 1/4"C	
IHP-E	INDOOR HEAT PUMP	208V/3PH	3/4	12		60/3/1	F RP2-19.21.23	3#6, 1#10G, 1 1/4"C	
IHP-F	INDOOR HEAT PUMP	208V/3PH	1	15		60/3/1	F RP2-25.27.29	3#4, 1#10G, 1 1/4"C	
IHP-G	INDOOR HEAT PUMP	208V/3PH	3/4	12		60/3/1	F PP2-38.40.42	3#6, 1#10G, 1 1/4"C	
IHP-H	INDOOR HEAT PUMP	208V/3PH	2	30		200/3/1	F SE-13.15.17	3#10, 1#8G, 2"C	
OCHP-A103	OUTDOOR CEILING SPLIT	208V/1PH			11	30/2/3R	F PP1-6.8	2#10, 1#10G, 3/4"C	
OCHP-A104	OUTDOOR CEILING SPLIT	208V/1PH			11	30/2/3R	F PP1-2.4	2#10, 1#10G, 3/4"C	
OCHP-B	OUTDOOR CEILING SPLIT	208V/1PH			11	30/2/3R	F PP1-18.20	2#10, 1#10G, 3/4"C	
ODHP-A	OUTDOOR DUCTLESS SPLIT	208V/1PH			10	30/2/3R	F PP1-14.16	2#12, 1#12G, 3/4"C	
ODHP-B	OUTDOOR DUCTLESS SPLIT	208V/1PH			11	30/2/3R	F PP1-10.12	2#10, 1#10G, 3/4"C	
OHP-A125	OUTDOOR HEAT PUMP	208V/3PH		12.5		30/3/3R	F PP2-1.3.5	3#12, 1#12G, 3/4"C	
OHP-A128	OUTDOOR HEAT PUMP	208V/3PH		12.5		30/3/3R	F PP2-13.15.17	3#12, 1#12G, 3/4"C	
OHP-A130	OUTDOOR HEAT PUMP	208V/3PH		12.5		30/3/3R	F PP2-19.21.23	3#12, 1#12G, 3/4"C	
OHP-A131	OUTDOOR HEAT PUMP	208V/3PH		12.5		30/3/3R	F PP2-25.27.29	3#12, 1#12G, 3/4"C	
OHP-B127	OUTDOOR HEAT PUMP	208V/3PH		17		30/3/3R	F PP2-7.9.11	3#10, 1#10G, 3/4"C	
OHP-B132	OUTDOOR HEAT PUMP	208V/3PH		17		30/3/3R	F PP2-31.33.35	3#10, 1#10G, 3/4"C	
OHP-C134	OUTDOOR HEAT PUMP	208V/3PH		33.5		60/3/3R	F RP3-37.39.41	3#6, 1#10G, 1 1/4"C	
OHP-C145	OUTDOOR HEAT PUMP	208V/3PH		33.5		60/3/3R	F RP3-38.40.42	3#6, 1#10G, 1 1/4"C	
OHP-D	OUTDOOR HEAT PUMP	208V/3PH		25		60/3/3R	F PP1-31.33.35	3#8, 1#10G, 1"C	
OHP-E	OUTDOOR HEAT PUMP	208V/3PH		17		30/3/3R	F PP1-32.34.36	3#10, 1#10G, 3/4"C	
OHP-F	OUTDOOR HEAT PUMP	208V/3PH		19.5		30/3/3R	F PP1-38.40.42	3#10, 1#10G, 3/4"C	
OHP-G	OUTDOOR HEAT PUMP	208V/3PH		17		30/3/3R	F PP1-37.39.41	3#10, 1#10G, 3/4"C	
OHP-H	OUTDOOR HEAT PUMP	208V/3PH		40		60/3/3R	F PP1-26.28.30	3#6, 1#10G, 1 1/4"C	
SAF-1	SUPPLY AIR FAN	208V/3PH	1 1/4			30/3/1	F INV	3#12, 1#12G, 3/4"C	
WH-1	WATER HEATER	208V/3PH		10		60/3/1	F PP1-25.27.29	3#8 & 1#10(G) 3/4"C	

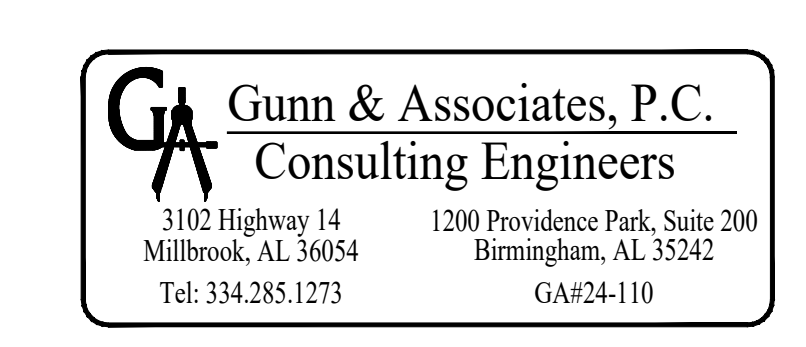
- NOTES:
- COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDS AND ACCOUNTED FOR IN THE CONTRACTORS BID PRICE.
 - ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
 - ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.
 - "NF" - NON-FUSED
 - "F" - FUSED
 - "TS" MANUAL MOTOR STARTER WITH THERMAL OVERLOAD ("W" - WEATHERPROOF) ("30-AMP" - 30-AMP RATED)
 - PROVIDE INTERCONNECTING RELAY SUCH THAT FAN IS CONTROLLED BY LIGHTING.
 - CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR ALL CIRCULATING PUMPS AND TIME CLOCKS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - INDOOR UNIT IS POWERED BY OUTDOOR UNIT.

ADDITION TO
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 FOR THE
LINDEN CITY BOARD OF EDUCATION
 LINDEN, ALABAMA



MCKEE & ASSOCIATES
 ARCHITECTS, INC.
 831 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

SHEET TITLE : GENERAL EQUIPMENT SCHEDULE
 MCKEE JOB # : 22-315
 DRAWN BY : AHB
 DATE : 8/27/2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :



SHEET NO. : **E3.3**

- US:\AL\MS\N\24\24-110\LINLINDEN.HUST 2024\08\29\2024\11:26:50 AM
 Thursday, August 29, 2024 11:26:50 AM

LIGHTING FIXTURE SCHEDULE

TYPE:	MANUFACTURER NUMBER AND EQUALS:	VOLTAGE:	MOUNTING:	LAMP TYPE:	LAMP QUANTITY:	DESCRIPTION:
D1	PRESCOLITE #LFR-6RA-M-4L-40K-WD-DM1-LFR-6RA-T-SS-LFR-6RA-H OR PRIOR APPROVED EQUALS BY EATON, PARKER, & WILLIAMS	MOVOLT	RECESSED	LED	4000 LUMEN 32.6W	6 INCH ADJUSTABLE DOWNLIGHT. PROVIDE WITH 14W INTEGRAL EMERGENCY BATTERY WHERE SHOWN ON PLAN
D2	PRESCOLITE #LFR-6RA-M-2L-40K-WD-DM1-LFR-6RA-T-SS-LFR-6RA-H OR PRIOR APPROVED EQUALS BY EATON, PARKER, & WILLIAMS	MOVOLT	RECESSED	LED	2000 LUMEN 15W	6 INCH ADJUSTABLE DOWNLIGHT. PROVIDE WITH 14W INTEGRAL EMERGENCY BATTERY WHERE SHOWN ON PLAN
D3	PRESCOLITE #LFR-6RDS-M-15L-40K-WD-DM1-LFR-6RDS-T-SS-LFR-6RD-H OR PRIOR APPROVED EQUALS BY EATON, PARKER, & WILLIAMS	MOVOLT	RECESSED	LED	1500 LUMEN 12.3W	6 INCH DOWNLIGHT. PROVIDE WITH 14W INTEGRAL EMERGENCY BATTERY WHERE SHOWN ON PLAN
LG22	COOPER #22FP4235C OR PRIOR APPROVED EQUALS BY HUBBELL, PARKER, & WILLIAMS	MOVOLT	RECESSED	LED	4200 LUMEN 38.3W	2X2' FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LG48	COOPER #24FP4735C OR PRIOR APPROVED EQUALS BY HUBBELL, PARKER, & WILLIAMS	MOVOLT	RECESSED	LED	4600 LUMEN 41.4W	2X4' FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LG60	COOPER #24FP435C OR PRIOR APPROVED EQUALS BY HUBBELL, PARKER, & WILLIAMS	MOVOLT	RECESSED	LED	6000 LUMEN 60.3W	2X4' FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LG75	COLUMBIA #CFP24-7540 OR PRIOR APPROVED EQUALS BY EATON, PARKER, & WILLIAMS	MOVOLT	RECESSED	LED	7500 LUMEN 56W	2X4' FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LL	LUMENWERX #VIA4RPAT-D-FH-SW-80-350LMP-40K-X-LEV4C(4)-90-UNV-1-EC448-W OR PRIOR APPROVED EQUALS BY HUBBELL, PARKER, & WILLIAMS	MOVOLT	RECESSED	LED	350L/FT 2.8W/FT	4" WIDE LINEAR FLAT PANEL FIXTURE. PROVIDE LENGTH AS SHOWN ON PLAN.
LS1	HUBBELL #LCL-2-40K-ML-E-MVOLT-CSHC OR PRIOR APPROVED EQUALS BY WILLIAMS, LSI, OR COOPER	MOVOLT	WALL	LED	2805 LUMEN 24W	2'-0" LENSED STRIP.
LS4	HUBBELL #LCL-4-40K-ML-E-MVOLT-CSHC OR PRIOR APPROVED EQUALS BY WILLIAMS, LSI, OR COOPER	MOVOLT	SURFACE OR CHAIN HUNG	LED	5300 LUMEN 42W	4'-0" LENSED STRIP. CHAIN HANG WHEN SURFACE MOUNT IS NOT POSSIBLE.
LV4	FAIL-SAFE #HLV8-4-LD4-2L0-40-UNV-O-EDC-1-S-DP-EL14W (WHERE REQ.) OR PRIOR APPROVED EQUALS BY WILLIAMS, LSI, OR COOPER	MOVOLT	SURFACE	LED	4300 LUMEN 47.4W	4'-0" VANDAL RESISTANT FIXTURE WITH OPAL LENSE. PROVIDE WITH 14W INTEGRAL EMERGENCY BATTERY WHERE SHOWN ON PLAN. UL LISTED FOR WET LOCATIONS.
PL1	LUMARK #PRV-XL-PA3A-740-U-J-T3 OR PRIOR APPROVED EQUALS BY KIM, GARCCO, OR LSI	MOVOLT	POLE 30H.	LED	25000 LUMEN 172W	DARK BRONZE, EXTERIOR, AREA LIGHT MOUNTED 30H. ON A STRAIGHT, SQUARE, STEEL POLE. UL LISTED FOR WET LOCATIONS.
PL2	LUMARK #PRV-XL-PA3A-740-U-J-T4W OR PRIOR APPROVED EQUALS BY KIM, GARCCO, OR LSI	MOVOLT	POLE 30H.	LED	25000 LUMEN 172W	DARK BRONZE, EXTERIOR, AREA LIGHT MOUNTED 30H. ON A STRAIGHT, SQUARE, STEEL POLE. UL LISTED FOR WET LOCATIONS.
PL3	LUMARK #PRV-XL-PA3A-740-U-J-SW OR PRIOR APPROVED EQUALS BY KIM, GARCCO, OR LSI	MOVOLT	POLE 30H.	LED	25000 LUMEN 344W	2 DARK BRONZE, EXTERIOR, AREA LIGHTS MOUNTED AT 180° AT 30H. ON A STRAIGHT, SQUARE, STEEL POLE. UL LISTED FOR WET LOCATIONS.
WP1	LUMARK #IST-SA1C-740-U-T4W OR PRIOR APPROVED EQUALS BY KIM, GARCCO, OR EATON	MOVOLT	WALL 12H.	LED	4500 LUMEN 35W	DARK BRONZE EXTERIOR LED LIGHT. UL LISTED FOR WET LOCATIONS.
⊗	EXITRONIX #QXT-R-WB-MH OR PRIOR APPROVED EQUAL BY EMERGI-LITE, MCPHILBEN, OR PHILLIPS	MOVOLT	UNIVERSAL	LED	WITH UNIT	LED EXIT SIGN. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. COORDINATE COLOR OF SIGNAGE WITH LOCAL AHJ. PROVIDE WITH EMERGENCY BATTERY.
⊗ XB	EXITRONIX #VLEDR1WHEL90G2 OR PRIOR APPROVED EQUAL BY EMERGI-LITE, MCPHILBEN, OR PHILLIPS	MOVOLT	UNIVERSAL	LED	1300 LUMEN 11W	COMBO LED EMERGENCY EGRESS / EXIT SIGN. COORDINATE COLOR OF SIGNAGE WITH LOCAL AHJ. PROVIDE WITH EMERGENCY BATTERY.
↶	EXITRONIX #NFT-HO-W-G2 OR PRIOR APPROVED EQUAL BY EMERGI-LITE, MCPHILBEN, OR PHILLIPS	MOVOLT	UNIVERSAL	LED	1300 LUMEN 11W	EMERGENCY EGRESS FIXTURE.

LUMINAIRE NOTES:

- ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
- LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
- ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION
- ALL LUMINAIRES BALLAST, DRIVERS, LAMPS, ETC SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
- SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID. PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
- ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., SUSPEND BELOW OBSTRUCTION WHEN CONFLICTS OCCUR.
- ALL LED LUMINAIRES SHALL BE PROVIDED WITH 4000K COLOR TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
- ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
- COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- ALL EXIT SIGNS AND LUMINAIRES DESIGNATED AS EMERGENCY SHALL BE PROVIDED WITH A MINIMUM 1100 LUMEN EMERGENCY BATTERY BALLAST CAPABLE OF 90 MINUTES OF ILLUMINATION. X DESIGNATION MEANS DIFFERENT TYPE BATTERY SEE SCHEDULE.
- CONTRACTOR SHALL PROVIDE ALL SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS NEEDED TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.
- FOR WARRANTY AND LONG TERM SUPPORT FOR OWNER, ALL LIGHTING FIXTURES SHALL BE PURCHASED THROUGH MANUFACTURER REPRESENTATIVES LOCATED IN THE STATE OF ALABAMA. SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS CAUSED BY NON COMPLIANCE WITH THIS REQUIREMENT.

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LINDEN HIGH SCHOOL
 FOR THE
LINDEN CITY BOARD OF EDUCATION
 LINDEN, ALABAMA

MCKEE & ASSOCIATES
 ARCHITECTS, INC.

637 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
 Project Title: New Construction
 Project Type: New Construction
 Construction Site: Owner/Agent Designer/Contractor:

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-School/University	21430	7.07	15144
Total Allowed Watts =			15144

Proposed Interior Lighting Power

A Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture Watt	D E (C X D)
1-School/University			
LED 1: LG75: LED Panel 60W:	1	122	56
LED 2: LG60: LED Panel 60W:	1	52	60
LED 3: LG48: LED Panel 41W:	1	9	41
LED 4: LG22: LED Panel 40W:	1	6	38
LED 5: LS1: LED Linear 22W:	1	6	24
LED 6: LS4: LED Panel 41W:	1	9	42
Total Proposed Watts =			11976

Interior Lighting PASSES: Design 41% better than code

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Andrew Danner - Elect. Designer *Andrew Danner* 8/22/24
 Name - Title Signature Date

COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
 Project Title: New Construction
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))
 Construction Site: Owner/Agent Designer/Contractor:

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	23300 R2	0.06	Yes	1398
Driveway	8700 R2	0.06	Yes	522
Entry canopy	2740 R2	0.25	Yes	685
Main entry	1416 R2	0.20	Yes	283
Plaza area	6213 R2	0.14	Yes	870
Walkway >= 10 feet wide	8965 R2	0.14	Yes	1255
Total Tradable Watts (a) =			5010	
Total Allowed Watts (b) =			5010	
Total Allowed Supplemental Watts (b) =			600	

(a) Wattage tradable are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture Watt	D E (C X D)
Parking area (23300 R2): Tradable Wattage			
LED 1: PL: LED Roadway-Parking Unit 130W:	1	4	172
Driveway (8700 R2): Tradable Wattage			
LED 2: PL: LED Roadway-Parking Unit 130W:	1	2	172
LED 3: WP1: LED Roadway-Parking Unit 42W:	1	1	35
Entry canopy (2740 R2): Tradable Wattage			
LED 4: D1: LED A Lamp 25W:	1	8	33
LED 5: D2: LED A Lamp 13W:	1	4	15
LED 6: D3: LED PAR 13W:	1	2	12
LED 8: LV4: LED Panel 44W:	1	7	47
Main entry (1416 R2): Tradable Wattage			
LED 7: D3: LED PAR 13W:	1	2	12
Plaza area (6213 R2): Tradable Wattage			
LED 9: WP1: LED Roadway-Parking Unit 42W:	1	2	35
Walkway >= 10 feet wide (8965 R2): Tradable Wattage			
LED 10: WP1: LED Roadway-Parking Unit 42W:	1	4	35
Total Tradable Proposed Watts =			1914

Exterior Lighting PASSES: Design 66% better than code

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Andrew Danner - Elect. Designer *Andrew Danner* 8/22/24
 Name - Title Signature Date



SHEET TITLE : LIGHTING FIXTURE SCHEDULE, NOTES, & ENERGY REPORT

MCKEE JOB # : 22-315

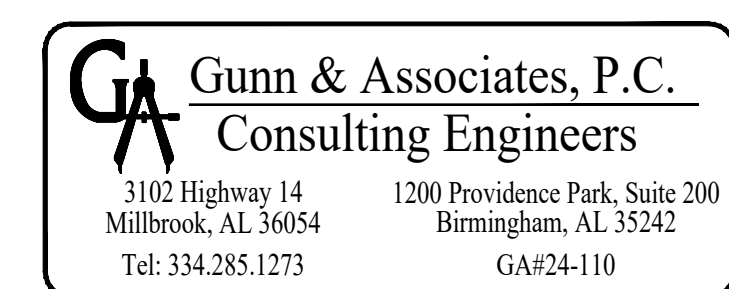
DRAWN BY : AHB

DATE : 8/27/2024

REVISED DATE :

REVISED DATE :

REVISED DATE :



SHEET NO. : **E5.1**

-\\sml\pvs\N2024124-110\LINDEN HIGH SCHOOL\LUMINAIRE\SCHED-24-110.E5.1.dwg
 - Thursday, August 29, 2024 11:29:11 AM

SWITCHBOARD - SE												
TYPE: 1600A MCB (SHUNT TRIP)			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
INVERTER	1,852	924	840	50	3	1 2 3	80	3	7,680	7,680		IHP-D
IHP-C134	9,360	9,360	9,360	100	3	5 6 7 8	100	3	9,360	9,360		IHP-C145
IHP-H	11,040	11,040	11,040	125	3	9 10 11 12	125	3	9,360	9,360		SPARE
PANEL RP1	23,400	27,180	26,280	225	3	13 14 15 16 17 18	225	3	17,240	18,700	18,200	PANEL RP2
SPARE				225	3	19 20 21 22 23 24	225	3	16,680	16,540	15,840	PANEL RP3
PANEL PP1	27,590	25,580	24,890	400	3	25 26 27 28 29 30	400	3	38,640	38,640	38,640	PANEL PP2
BUSSED SPACE				400	3	31 32 33 34 35 36	400	3				BUSSED SPACE
SUB TOTAL (VA)	73,242	74,084	72,410			37 38 39 40 41 42			89,600	90,920	89,720	SUB TOTAL (VA)
TOTAL LOAD PHASE A:	162,842 (VA)											
TOTAL LOAD PHASE B:	165,004 (VA)											
TOTAL LOAD PHASE C:	162,130 (VA)											
TOTAL LOAD:	489,976 (VA) = 1361 AMPS											

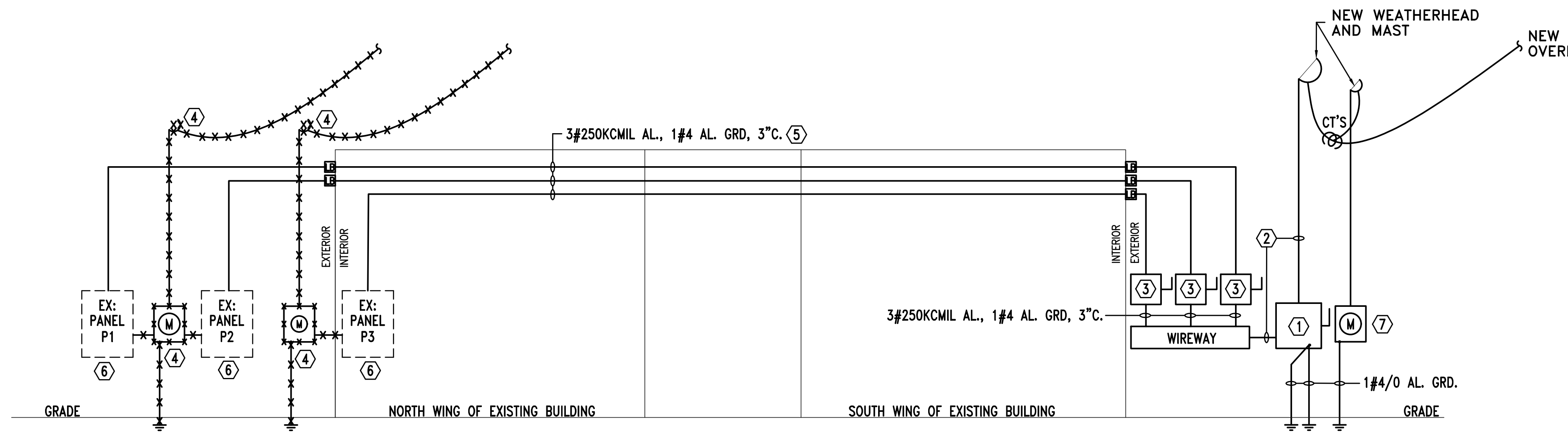
PANEL - PP1												
TYPE: 400 AMP MAIN LUG			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
LIGHTS	1,800	1,310	1,550	20	1	1 2 3 4	30	2	1,320	1,320		OCHP-A104
LIGHTS				20	1	5 6 7 8	30	2	1,320	1,320		OCHP-A103
LIGHTS	1,800	1,800	1,800	20	1	9 10 11 12	30	2	1,320	1,320		ODHP-B
LIGHTS				20	1	13 14 15 16	20	2	1,200	1,200		ODHP-A
EXTERIOR LIGHTS	1,250	1,050	1,050	20	1	17 18 19 20	30	2	1,320	1,320		OCHP-B
SITE LIGHTS				50	1	21 22 23 24	50	1				BUSSED SPACE
SPARE				50	1	25 26 27 28	50	1				BUSSED SPACE
BUSSED SPACE				50	1	29 30 31 32	50	1				BUSSED SPACE
WATER HEATER	3,360	3,360	3,360	40	3	33 34 35 36	40	3	4,800	4,800		OHP-H
OHP-D	3,000	3,000	3,000	40	3	37 38 39 40	40	3	2,040	2,040		OHP-E
OHP-G	2,040	2,040	2,040	30	3	41 42	30	3	2,340	2,340		OHP-F
SUB TOTAL (VA)	13,250	12,560	11,750						14,340	13,020	13,140	SUB TOTAL (VA)
TOTAL LOAD PHASE A:	27,590 (VA)											
TOTAL LOAD PHASE B:	25,580 (VA)											
TOTAL LOAD PHASE C:	24,890 (VA)											
TOTAL LOAD:	78,060 (VA) = 217 AMPS											

PANEL - PP2												
TYPE: 400 AMP MAIN LUG			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
OHP-A125	1,500	1,500	1,500	20	3	1 2 3 4 5 6	40	3	3,720	3,720		IHP-A125
OHP-B127	2,040	2,040	2,040	30	3	7 8 9 10 11 12	50	3	4,560	4,560		IHP-B127
OHP-A128	1,500	1,500	1,500	20	3	13 14 15 16 17 18	40	3	3,720	3,720		IHP-A128
OHP-A130	1,500	1,500	1,500	20	3	19 20 21 22 23 24	40	3	3,720	3,720		IHP-A130
OHP-A131	1,500	1,500	1,500	20	3	25 26 27 28 29 30	40	3	3,720	3,720		IHP-A131
OHP-B132	2,040	2,040	2,040	30	3	31 32 33 34 35 36	50	3	4,560	4,560		IHP-B132
BUSSED SPACE				50	1	37 38 39 40 41 42	50	1	4,560	4,560		IHP-G
BUSSED SPACE				50	1				4,560	4,560		
BUSSED SPACE				50	1				4,560	4,560		
SUB TOTAL (VA)	10,080	10,080	10,080						28,560	28,560	28,560	SUB TOTAL (VA)
TOTAL LOAD PHASE A:	38,640 (VA)											
TOTAL LOAD PHASE B:	38,640 (VA)											
TOTAL LOAD PHASE C:	38,640 (VA)											
TOTAL LOAD:	115,920 (VA) = 322 AMPS											

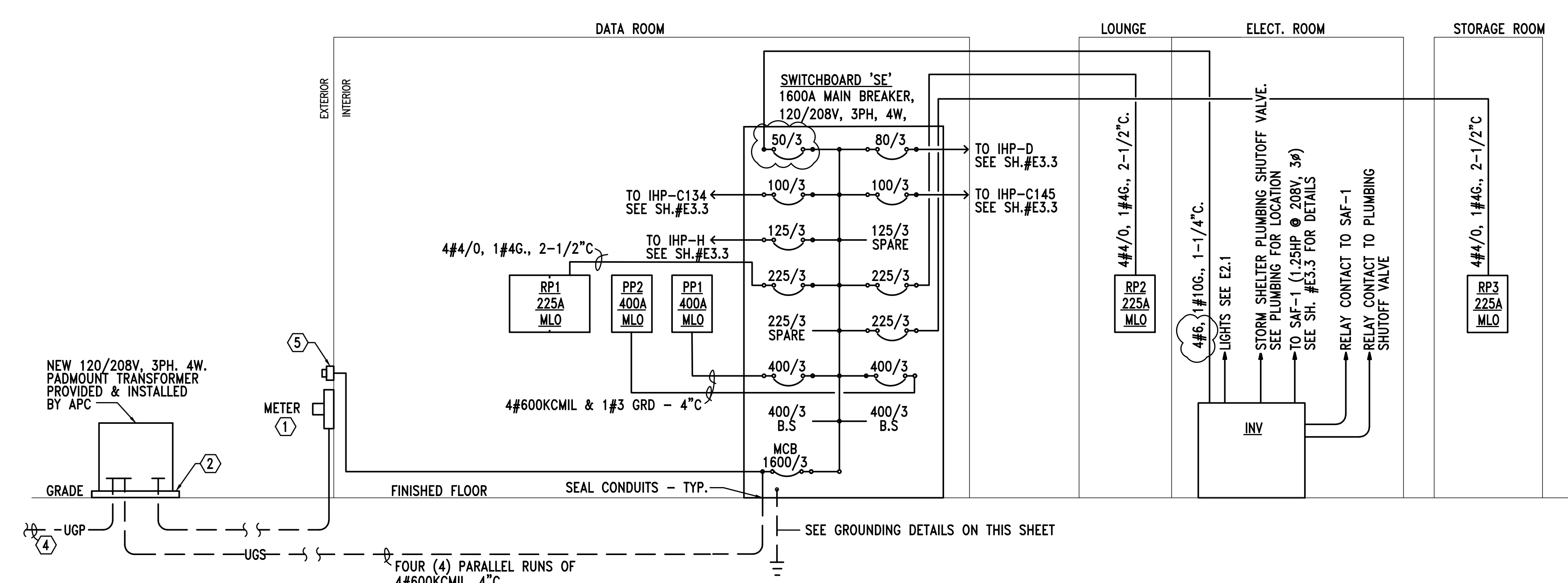
POWER EQUIPMENT MANUFACTURERS BIDDING THIS PROJECT SHALL INCLUDE IN THEIR BASE BID PRICE AN AND ALL EXPEDITED CHARGES AS REQUIRED TO SHIP SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, AND DISCONNECTS TO THE JOB SITE S REQUIRED TO MEET PROJECT SCHEDULE. CONTRACTOR AND SUPPLIER SHALL SET THIS TIME PRIOR TO BID ACCORDING PUBLISHED SCHEDULE IN BID DOCUMENTS.

PANEL - RP1												
TYPE: 225 AMP MAIN LUG			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
CLASS 127 PLUGS	1,200			20	1	1 2 3 4	20	1	1,200			FACP (NOTE 3)
CLASS 127 PLUGS		600		20	1	5 6 7 8	20	1	600			TBB
CLASS 129 PLUGS	1,200			20	1	9 10 11 12	20	1	1,600		600	TBB
CLASS 130 PLUGS				20	1	13 14 15 16	20	1	1,600		1,600	HAND DRYER
CLASS 130 PLUGS				20	1	17 18 19 20	20	1	1,600		1,600	HAND DRYER
CLASS 132 PLUGS	1,200			20	1	21 22 23 24	20	1	1,600		1,600	HAND DRYER
CLASS 132 PLUGS		1,200		20	1	25 26 27 28	20	1	1,600		1,600	HAND DRYER
CLASS 125 PLUGS	1,200			20	1	29 30 31 32	20	1	1,600		1,600	HAND DRYER
CLASS 124 PLUGS				20	1	33 34 35 36	20	1	1,600		1,200	MEDIA PLUGS
CLASS 123 PLUGS	1,200			20	1	37 38 39 40	20	1	1,200		1,200	MEDIA PLUGS
CLASS 123 PLUGS		1,200		20	1	41 42 43 44	20	1	1,200		1,200	MEDIA PLUGS
CORRIDOR PLUGS	1,200			20	1	45 46 47 48	20	1	900		900	OFFICE 116 PLUGS
EWC	1,200			20	1	49 50 51 52	20	1	600		600	WORK 118 PLUGS
EWC		1,200		20	1	53 54 55 56	20	1	600		600	WORK 118 PLUGS
EWC	1,200			20	1	57 58 59 60	20	1	600		600	WORK 118 PLUGS
EWC		1,200		20	1				2,880		2,880	UPS
DATA PLUGS				20	1				41 42 43 44		41 42 43 44	UPS
VENDING	1,600			20	1	43 44 45 46	20	1	900		900	TC & CIRC PUMP
VENDING		1,600		20	1	47 48 49 50	20	1	900		900	DAMPERS & TRAPS
VENDING				20	1	51 52 53 54	20	1	900		900	DAMPERS & TRAPS
SPARE				20	1	55 56 57 58	20	1				DAMPERS & TRAPS
GENERAL PLUGS		1,200		20	1	59 60 61 62	20	1	1,200		1,200	DAMPERS & TRAPS
EWC				20	1	63 64 65 66	20	1				SPARE
EWC	1,200			20	1	67 68 69 70	20	1				SPARE
NURSE PLUGS		1,200		20	1	71 72 73 74	20	1				SPARE
COUSEL PLUGS				20	1	75 76 77 78	20	1				SPARE
CONF PLUGS	1,200			20	1	79 80 81 82	20	1				SPARE
RECEPTION PLUGS		1,200		20	1	83 84 85 86	20	1				SPARE
RECEPTION PLUGS				20	1	87 88 89 90	20	1				SPARE
ALPHONE POWER	1,200			20	1	91 92 93 94	20	1				SPARE
WORK 105 PLUGS		600		20	1	95 96 97 98	20	1				SPARE
WORK 105 PLUGS				20	1	99 100 101 102	20	1				SPARE
WORK 105 PLUGS	600			20	1	103 104 105 106	20	1				SPARE
PRINCIPAL PLUGS		1,200		20	1	107 108 109 110	20	1				SPARE
OFFICE 103 PLUGS				20	1	111 112 113 114	20	1				SPARE
BUSSED SPACE				50	1	115 116 117 118	50	1				BUSSED SPACE
BUSSED SPACE				50	1	119 120 121 122	50	1				BUSSED SPACE
BUSSED SPACE				50	1	123 124 125 126	50	1				BUSSED SPACE
SUB TOTAL (VA)	14,200	15,400	14,800						9,200	11,780	11,480	SUB TOTAL (VA)
TOTAL LOAD PHASE A:	23,400 (VA)											
TOTAL LOAD PHASE B:	27,180 (VA)											
TOTAL LOAD PHASE C:	26,280 (VA)											
TOTAL LOAD:	76,860 (VA) = 214 AMPS											

PANEL - RP2												
TYPE: 225 AMP MAIN LUG			AIC: 65,000 AMPERES			MOUNTED: FLUSH			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
LIGHTS	1,040			20	1	1 2 3 4	20	1	600			TBB
DAMPERS & TRAPS		900		20	1	5 6 7 8	20	1	1,600			HAND DRYER
SPARE				20	1	9 10 11 12	20	1	1,600		1,600	HAND DRYER
SPARE				20	1	13 14 15 16	20	1	600		600	TLT PLUGS
SPARE				20	1	17 18 19 20	20	1	1,200		1,200	LOUNGE PLUGS
SPARE				20	1	21 22 23 24	20	1	1,600		1,600	REFRIG
SPARE				20	1	25 26 27 28	20	1	1,200		1,200	LOUNGE PLUGS
SPARE				20	1	29 30 31 32	20	1	1,200		1,200	LOUNGE PLUGS
IHP-E	4,560			50	1	33 34 35 36	50	1	1,200		1,200	CLASS 142 PLUGS
		4,560		20	1	37 38 39 40	20	1	1,200		1,200	CLASS 142 PLUGS
IHP-F	5,640			60	3	41 42 43 44 45 46	20	1	1,200		1,200	CLASS 143 PLUGS
		5,640		20	1	47 48 49 50	20	1	1,200		1,200	CLASS 143 PLUGS
				20	1	51 52 53 54	20	1	1,200		1,200	CLASS 143 PLUGS
BUSSED SPACE				50	1	55						



1 EXISTING BUILDING POWER RISER DIAGRAM - DEMO AND NEW TEMPORARY SERVICE
NO SCALE



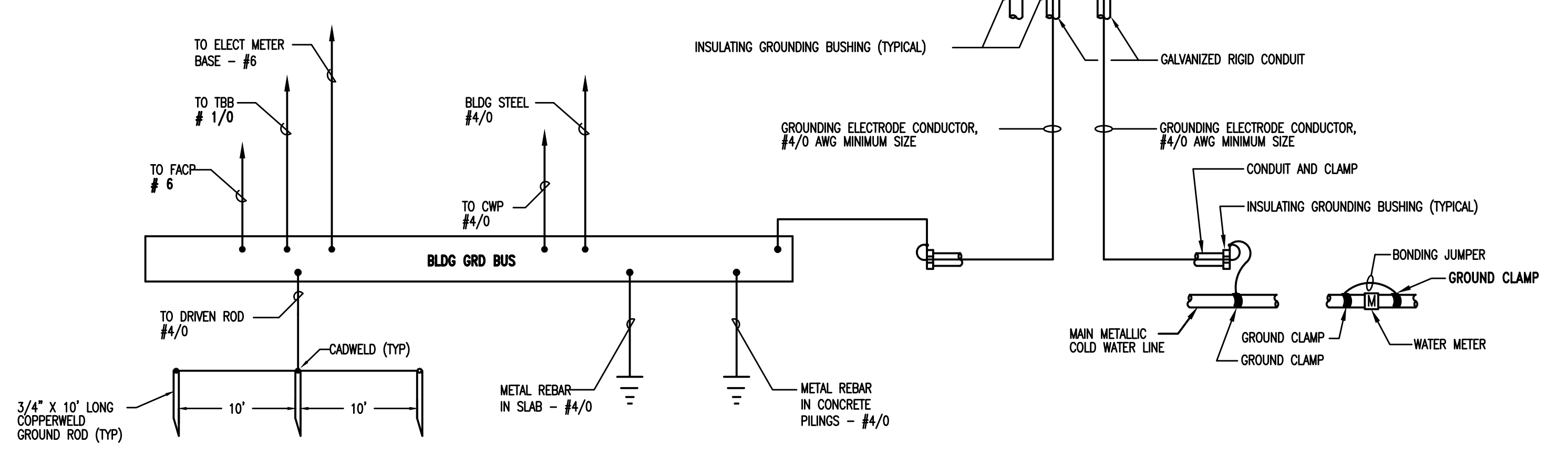
2 POWER RISER DIAGRAM - NEW BUILDING
NO SCALE

NEW BUILDING SHEET NOTES:

- 1 INSTALL A MINIMUM 1-1/4" CONDUIT FROM THE SECONDARY CONNECTION COMPARTMENT OF THE PADMOUNT TRANSFORMER TO THE METER BASE. VERIFY THE EXACT LOCATION, CONDUIT SIZE, TERMINATION POINTS, AND ROUTING WITH LOCAL UTILITY PRIOR TO ROUGH-IN.
- 2 INSTALL CONCRETE PAD FOR PADMOUNT TRANSFORMER AS DIRECTED BY UTILITY COMPANY.
- 3 DELETED.
- 4 COORDINATE AND PROVIDE NUMBER AND SIZE CONDUITS REQUIRED BY LOCAL UTILITY COMPANY FOR THE UNDERGROUND PRIMARY. ROUTE CONDUITS FROM THE PADMOUNT TRANSFORMER TO THE UTILITY DIP POLE AS DIRECTED BY UTILITY COMPANY.
- 5 PROVIDE SHUNT TRIP SWITCH ON EXTERIOR OF THE BUILDING. SWITCH SHALL BE RED MUSHROOM TYPE WITH MOMENTARY CONTACTS TO KILL POWER TO THE MAIN SHUNT TRIP CIRCUIT BREAKER IN SWITCHBOARD 'SE'. LABEL SWITCH "EMERGENCY POWER OFF" IN RED BACKGROUND WITH 1" WHITE LETTERS. PROVIDE SWITCH IN HOUSING WITH WEATHPROOF BREAKGLASS COVER. PROVIDE INTERCONNECTING WIRING IN CONDUIT TO THE SHUNT TRIP CIRCUIT BREAKER IN PANEL.

NOTES

1. GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE CONTINUOUS AND NOT SPLICED.
3. GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED FULL LENGTH GALVANIZED RIGID CONDUIT AS INDICATED.
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE COPPER.
5. ALL BUSHINGS INSTALLED IN DIRECT CONTACT WITH EARTH SHALL BE APPROVED FOR THE PURPOSE.
6. GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMICALLY WELDED TYPE.
7. PROVIDE GROUNDING JUMPERS FROM COLD WATER PIPING TO HOT WATER PIPING AT EACH WATER HEATER. PROVIDE GROUNDING JUMPERS AT EACH INSULATED JOINT OR ANY PLACE WHERE GROUND IS BROKEN TO MAINTAIN INTEGRITY OF GROUNDING SYSTEM.



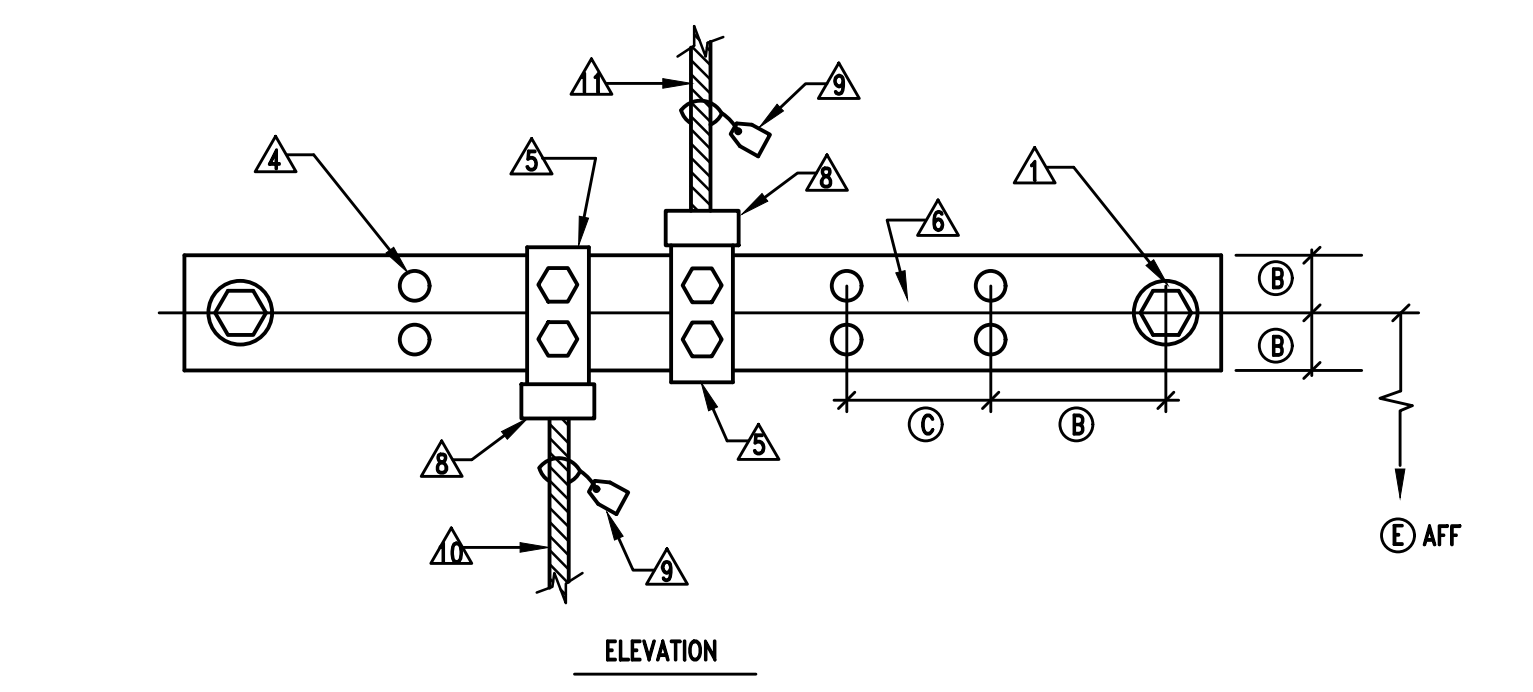
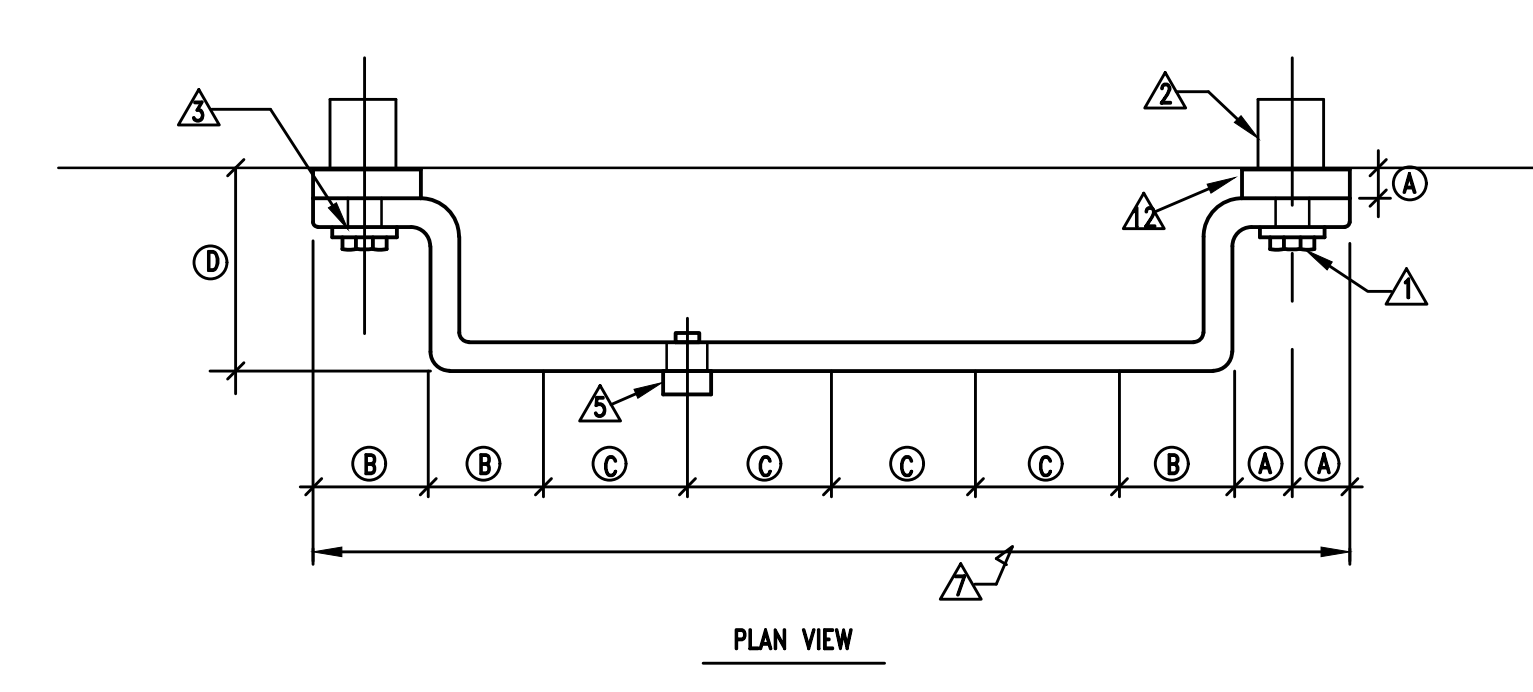
3 DETAIL - SERVICE ENTRANCE GROUNDING INSTALLATION
NO SCALE

DIMENSION BLOCK

REF	LENGTH	SI
A	1"	25.4mm
B	2"	50.8mm
C	2, 1/2"	63.5mm
D	3"	76.2mm
E	1'-6"	457.2mm

GROUND BUS NOTES

1. GROUND BUS INSTALLATION SHALL BE IN ACCORDANCE WITH THIS DETAIL AND AS INDICATED ON THE DRAWINGS.



4 DETAIL - TYPICAL GROUND BUS INSTALLATION
NO SCALE

TEMPORARY POWER RISER SHEET NOTES:

- 1 HEAVY DUTY, FUSIBLE, DISC. SWITCH, 240/120V, 600A, 3P, 65K AIC, NEMA 3R, SOLID NEUTRAL.
- 2 TWO (2) PARALLEL RUNS OF 3#500KCMIL AL, 3°C.
- 3 HEAVY DUTY, FUSIBLE, DISC. SWITCH, 240/120V, 200A, 1P, 65K AIC, NEMA 3R, SOLID NEUTRAL.
- 4 APC SHALL REMOVE EXISTING 120/240V, 1PH, 3W OVERHEAD SERVICE. CONTRACTOR SHALL REMOVE EXISTING WEATHERHEAD, METER, AND ASSOCIATED CIRCUITRY.
- 5 CONTRACTOR MAY ROUTE THE BEST WAY FOR THEM TO REFEED PANELS THAT MEET CODE SINCE THIS IS A TEMPORARY FEED UNTIL BUILDING CAN BE TORN DOWN.
- 6 REMOVE BONDING JUMPER BETWEEN NEUTRAL AND GROUND.
- 7 PROVIDE CT OR FEED THRU METER PER APC REQUIREMENTS.

SINGLE LINE DIAGRAM NOTES:

1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING. CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING WITH ALL DIVISIONS THE ACTUAL NAMEPLATE DATA OF ALL EQUIPMENT AND DEVICES SUPPLIED ON THIS PROJECT PRIOR TO BID. CONTRACTOR SHALL THEN PROVIDE THE PROPERLY SIZED OVERCURRENT DEVICES (CIRCUIT BREAKERS, CONDUCTORS, DISCONNECTS, FUSES, ETC.) TO PROPERLY PROTECT THE EQUIPMENT PER THE NEC. ENGINEER'S DESIGN BASED ON DATA GIVEN TO HIM BY DESIGNERS OF OTHER DIVISIONS, ACTUAL NAMEPLATE DATA COULD DIFFER.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND. ONCE ALL CABLING HAS BEEN INSTALLED.
5. COORDINATE WITH GROUNDING DETAILS ON THIS SHEET FOR ALL THE DIFFERENT TYPE GROUNDING REQUIREMENTS.
6. ALL UNDERGROUND SECONDARY FEEDERS SHALL BE A MINIMUM OF 36" BELOW GRADE TO THE TOP OF THE DUCT BANK.
7. ALL UNDERGROUND PRIMARY FEEDERS SHALL BE A MINIMUM OF 48" BELOW GRADE TO THE TOP OF THE CONDUIT.
8. CONTRACTOR SHALL PROVIDE A FULL SIZE COPY OF THE AS-BUILT POWER RISER DIAGRAM FRAMED BEHIND PLEXIGLASS SCREWED TO THE WALL NEAR MAIN SERVICE PANEL.

MARK	KVA	VOLTAGE		BKRS	DESCRIPTION
		PRIMARY	SECONDARY		
INV	12.5KW	208V/3PH	208V/3PH	(3) 20A/1P (1) 20A/3P	CENTRAL BATTERY INVERTER RUNTIME: 180 MINUTES MAX FOOTPRINT: 90W X 25"D X 47"H EMERGI-LITE, CONTROLLED POWER, AND DUAL-LITE ARE APPROVED MANUFACTURERS.

* INVERTER SIZE SHALL BE CALCULATED USING THE FOLLOWING INFORMATION.
 LIGHTS: 1,250 WATTS
 SAF-1: 1.25-HP
 PROVIDE ONE RELAY CONTACT INTERCONNECTED TO THE CONTROL OF THE WATER VALVE
 PROVIDE ONE RELAY CONTACT INTERCONNECTED TO THE CONTROL OF SAF-1
 RELAY CONTACTS TO GIVE SIGNAL TO MP CONTROLS THAT INVERTER IS IN EMERGENCY MODE UPON LOSS OF NORMAL POWER.
 SYSTEM IS DESIGNED AROUND LIGHTALARMS 3FTC. EQUAL MANUFACTURERS MUST MEET PHYSICAL EQUIPMENT SIZE AS SHOWN ON DRAWINGS.

GROUNDING AND BONDING INSTALLATION NOTES

1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE NEC, NESC, IEEE, ANSI AND UL STANDARDS.
2. ALL DIMENSIONING INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
3. THE PURPOSE OF THE GROUNDING AND BONDING SYSTEM IS TO ESTABLISH ALL EQUIPMENT ENCLOSURES, NON-CURRENT CARRYING METALLIC PORTIONS OF THE ELECTRICAL DISTRIBUTION SYSTEM, METAL PIPING, METAL BUILDING FRAME, ETC. AT A ZERO POTENTIAL RELATIVE TO THE EARTH GROUND AND PROVIDE FOR A SAFE, LOW IMPEDANCE RETURN PATH FOR GROUND-FAULT CURRENT. THIS SHALL BE ACCOMPLISHED IN THE FOLLOWING MANNER:
 - a. PROVIDE A SOLIDLY GROUNDING SECONDARY SYSTEM.
 - b. INTER-CONNECT ALL GROUND BUSES AND POINTS IN THE SYSTEM WITH A COPPER GRD CONDUCTOR (BUS) SYSTEM.
 - c. ALL METALLIC RACEWAYS SHALL BE UL APPROVED AND MADE-UP TIGHT AT ALL COUPLINGS AND TERMINATIONS.
 - d. ALL GROUND CONDUCTORS IN CIRCUITS SHALL BE CONTAINED WITHIN THE SAME RACEWAY AS CURRENT CARRYING CONDUCTORS.
 - e. ALL SPLICES AND TERMINATIONS SHALL BE MADE TIGHT AND AS SUCH TO PROVIDE LOW IMPEDANCE AND SHALL HAVE THE SAME SHORT-TIME CURRENT-CARRYING CAPABILITY AS THE CONDUCTOR IT IS CONNECTED TO.
 - f. ALL GRD ELECTRODES OR BONDING CONDUCTORS INSTALLED ALONE WITHIN A RACEWAY SHALL UTILIZE GRC WITH GROUNDING BUSHINGS AT EACH END. THIS GROUND CONDUCTOR SHALL LOOP THROUGH THE BUSHING LUG PRIOR TO TERMINATION.

KEYED NOTES

- △ 1/2" (12.7mm) X 1 1/2" (38.1mm) SILICON-BRONZE MACHING BOLT & SILICON-BRONZE WASHER
- △ 1/2" (12.7mm) EXPANSION ANCHOR
- △ 9/16" (14.2875mm) HOLE IN BAR
- △ DRILLED DOUBLE CONNECTOR HOLES
- △ FLAT, TWO-HOLE CU CABLE CONNECTOR #2 TO #2 (DOUBLE LUGS) #1 TO #4/0 (SINGLE LUGS ONLY)
- △ 4" (101.6mm) WIDE, 1/4" (6.35mm) DEEP COPPER BUS BAR.
- △ LENGTH AS REQUIRED BY NUMBER OF CONDUCTOR CONNECTIONS OR AS SPECIFICALLY INDICATED. PROVIDE INTERMEDIATE WALL SUPPORTS AS REQUIRED.
- △ TYP CU GRD CONDUCTOR CONNECTION
- △ DESCRIPTION TAG, STATE SIZE OF CONDUCTOR AND TO WHAT IT IS CONNECTED TO.
- △ TYP GRD CONNECTION FROM BELOW. SEE APPLICABLE DETAILS FOR SLAB PENETRATIONS.
- △ TYP GRD CONNECTION FROM ABOVE. SEE APPLICABLE DETAILS FOR GRC INSTALLATIONS.
- △ INSULATED NON-CONDUCTIVE SPACER

SHEET TITLE: POWER RISER DIAGRAM, DETAILS & NOTES

MCKEE JOB #: 22-315

DRAWN BY: AHB

DATE: 8/27/2024

REVISED DATE: 9/12/2024

REVISED DATE:

REVISED DATE:

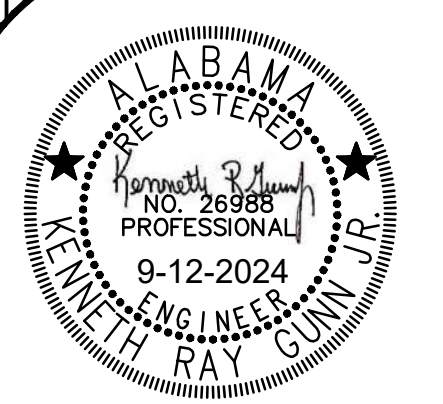
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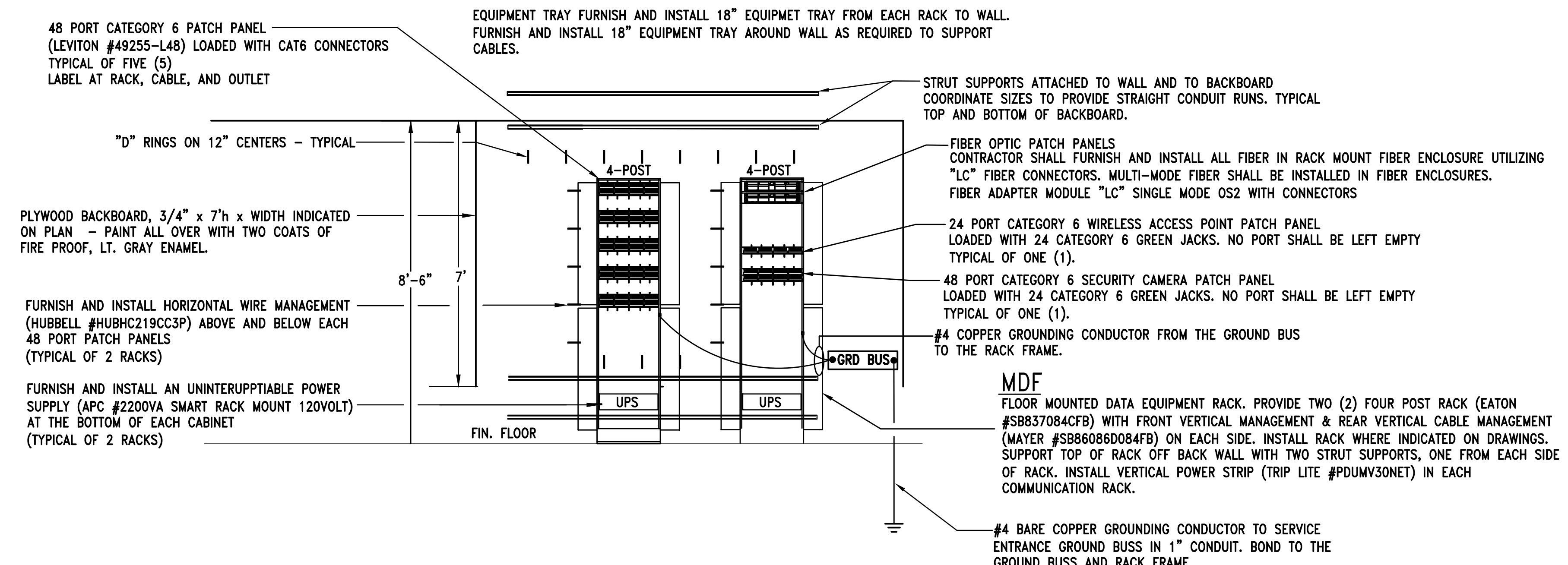
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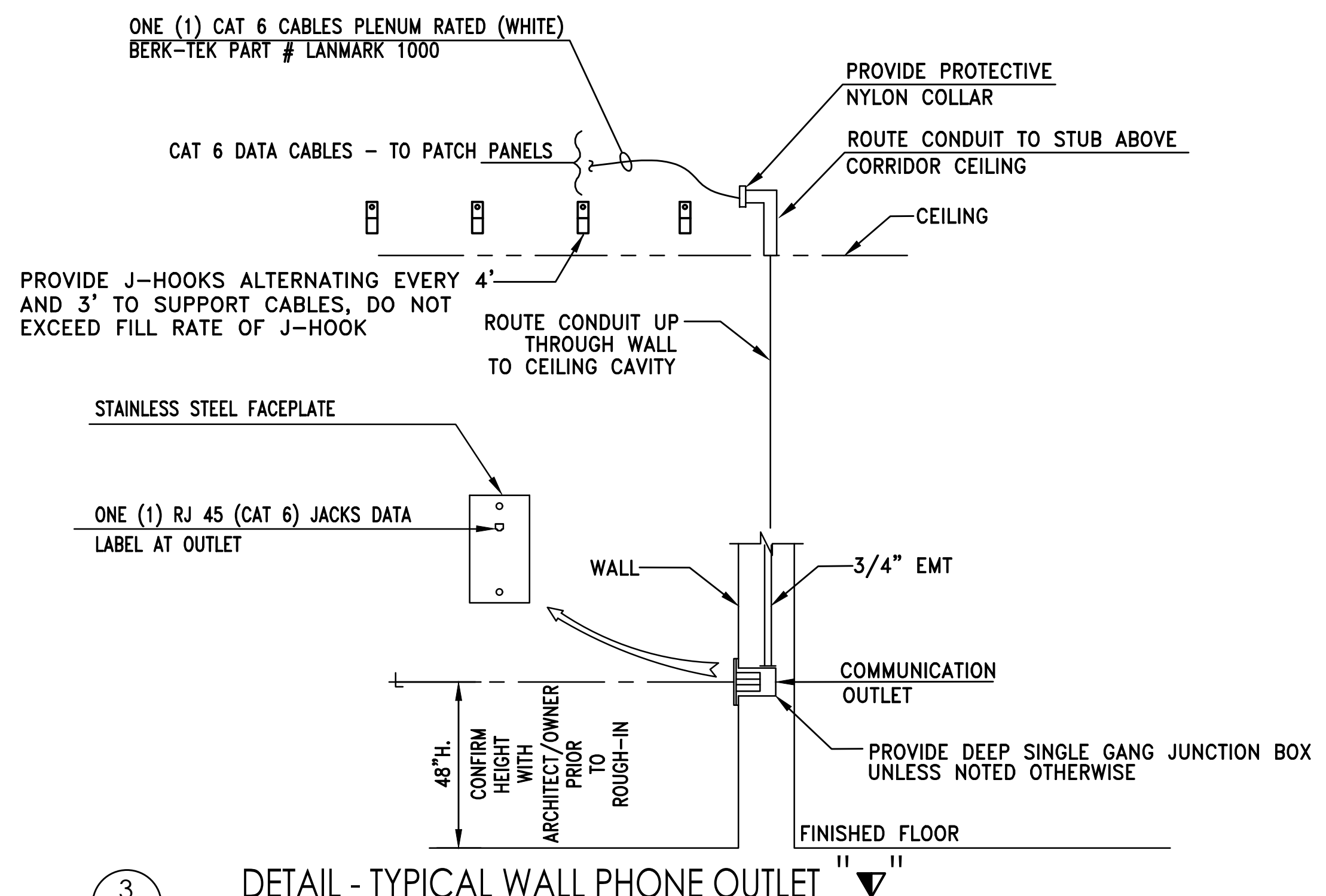
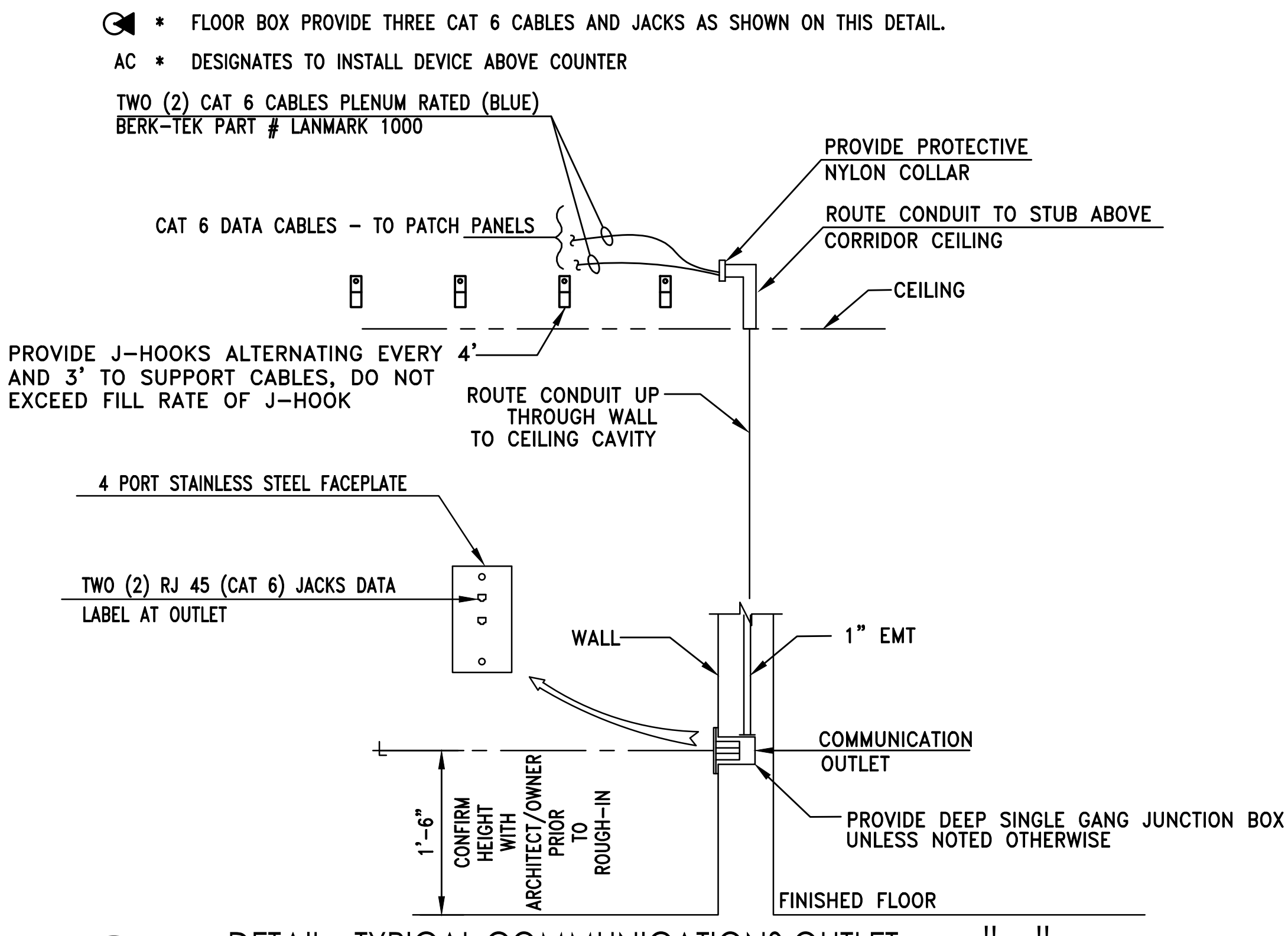


DATA CABLING & KEYSTONE COLOR CODE REQUIREMENT	
DATA CABLING	BLUE
INTERCOM/VOIP CABLING	WHITE
WIRELESS ACCESS CABLING	GREEN
SECURITY CAMERA CABLING	YELLOW



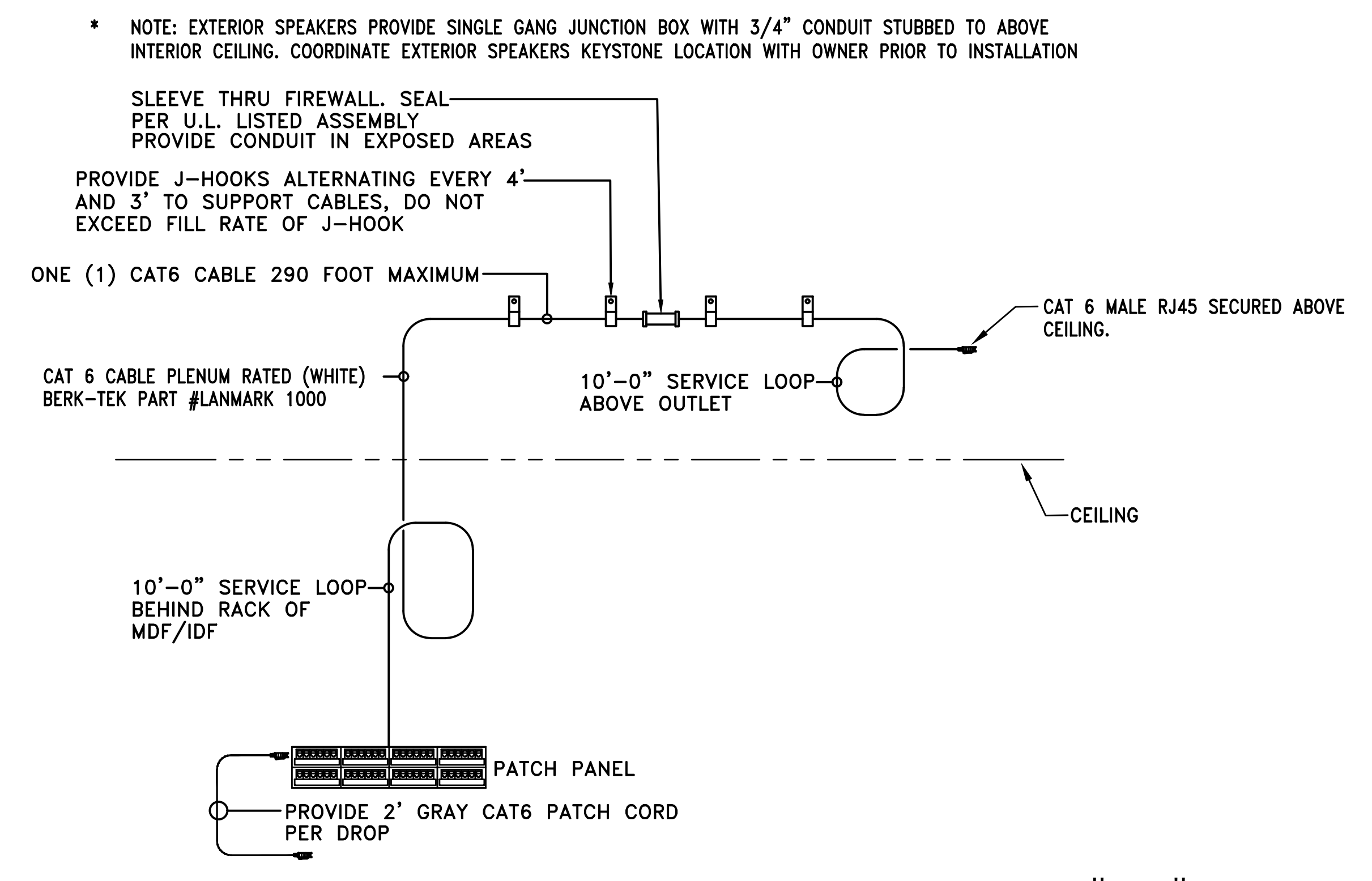
- COMMUNICATION NOTES:**
- PROVIDE 5/8" STRUT ASSEMBLY AT TOP AND BOTTOM OF TBB TO SUPPORT ALL CONDUITS TERMINATING AT BACKBOARD.
 - TBB SHALL BE 3/4" PLYWOOD EXTERIOR RATED AND CUT TO COVER ALL WALLS OR AS INDICATED. PAINT WITH TWO COATS OF FIRE RETARDANT PAINT. MOUNT 2" AFF.
 - PROVIDE A PLASTIC BUSHING OR PROTECTIVE COLLAR AT EACH CONDUIT TERMINATION, INCLUDING TERMINATIONS ABOVE THE CEILING, AT CABLE TRAY, OR AT TBB.
 - ALL CONDUIT TERMINATIONS SHOULD BE DONE EVENLY AT THE TOP AND BOTTOM OF TBB. TERMINATIONS SHALL BE MADE WITHIN THE FIRST FEW INCHES OF THE TBB.
 - SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
 - PROVIDE GROUND BUS FOR EACH TBB. SEE GROUND BUS INSTALLATION DETAIL.
 - PROVIDE ALL CONDUITS WITH MINIMUM #800 MULE TAPE (PULL TAPE).
 - STENCIL ALL JUNCTION BOX COVERS ABOVE THE CEILING WITH 2" LETTERS THAT READ "COMM".
 - ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL RACEWAYS, CABLE TRAY, CABLING, PATCH PANELS, TERMINATIONS, BACKBOARDS, ETC. SEE RISER DIAGRAM, DETAILS, AND SPECIFICATIONS FOR FURTHER EQUIPMENT REQUIREMENTS.
 - BOND RACK FRAMES, STRUT, CONDUITS, AND LADDER RACK TO THE GROUND BUS WITH MINIMUM SIZE WIRE OF #1/0.

1 MDF COMMUNICATIONS RACK ELEVATION
NO SCALE

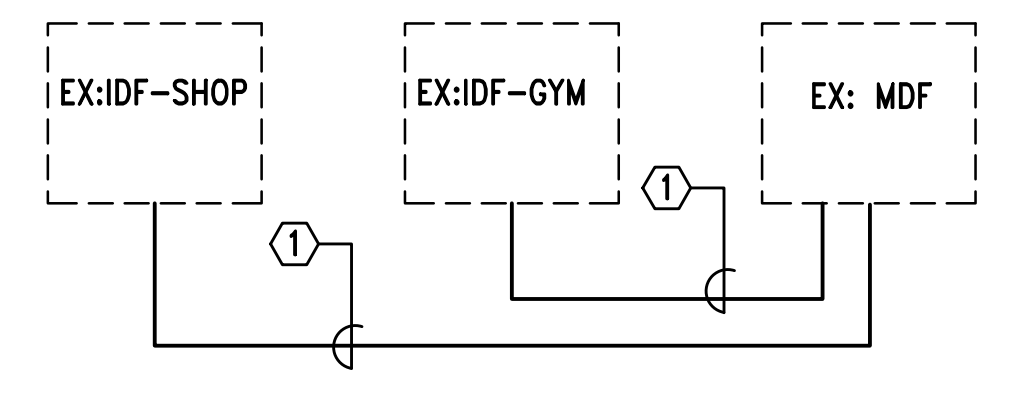


2 DETAIL - TYPICAL COMMUNICATIONS OUTLET
NO SCALE

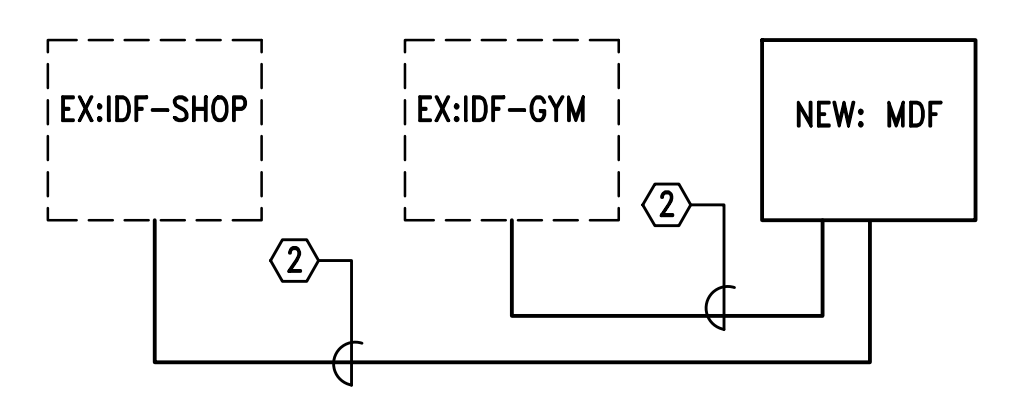
3 DETAIL - TYPICAL WALL PHONE OUTLET
NO SCALE



- RISER DIAGRAM KEYED NOTES:**
- CONTRACTOR SHALL PROVIDE A 6 STRAND OS2 SINGLE MODE FIBER OPTIC CABLE INTERCONNECTING THE EXISTING MDF TO THE EXISTING IDF. PROVIDE FIBER OPTIC PATCH EQUIPMENT IN EXISTING WALL RACK IN EXISTING BUILDING TO INTERCONNECT THE TWO RACKS BY FIBER. PROVIDE LC TYPE CONNECTIONS. VISIT SITE PRIOR TO BIDS AND ADJUST ROUTING AND CABLING LENGTHS ACCORDINGLY. SEE SITE PLAN FOR CONDUIT REQUIREMENTS. NOTE THIS WORK HAS TO BE COMPLETED BEFORE CONSTRUCTION OF NEW BUILDING CAN BEGIN.
 - CONTRACTOR SHALL PROVIDE A 6 STRAND OS2 SINGLE MODE FIBER OPTIC CABLE INTERCONNECTING THE NEW MDF TO THE EXISTING IDF. PROVIDE FIBER OPTIC PATCH EQUIPMENT IN EXISTING WALL RACK IN EXISTING BUILDING TO INTERCONNECT THE TWO RACKS BY FIBER. PROVIDE LC TYPE CONNECTIONS. VISIT SITE PRIOR TO BIDS AND ADJUST ROUTING AND CABLING LENGTHS ACCORDINGLY. SEE SITE PLAN FOR CONDUIT REQUIREMENTS.



5 COMMUNICATIONS RISER DIAGRAM - TEMPORARY WIRING
NO SCALE



6 COMMUNICATIONS RISER DIAGRAM - PERMANENT WIRING
NO SCALE

4 DETAIL - TYPICAL PAGING SPEAKER ACCESS POINT OUTLET
NO SCALE

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SHEET TITLE : COMMUNICATIONS RISER, DETAILS, & NOTES

MCKEE JOB # : 22-315

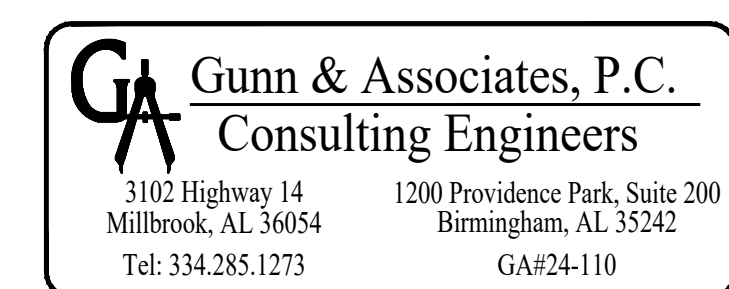
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DATE : 8/27/2024

REVISED DATE :

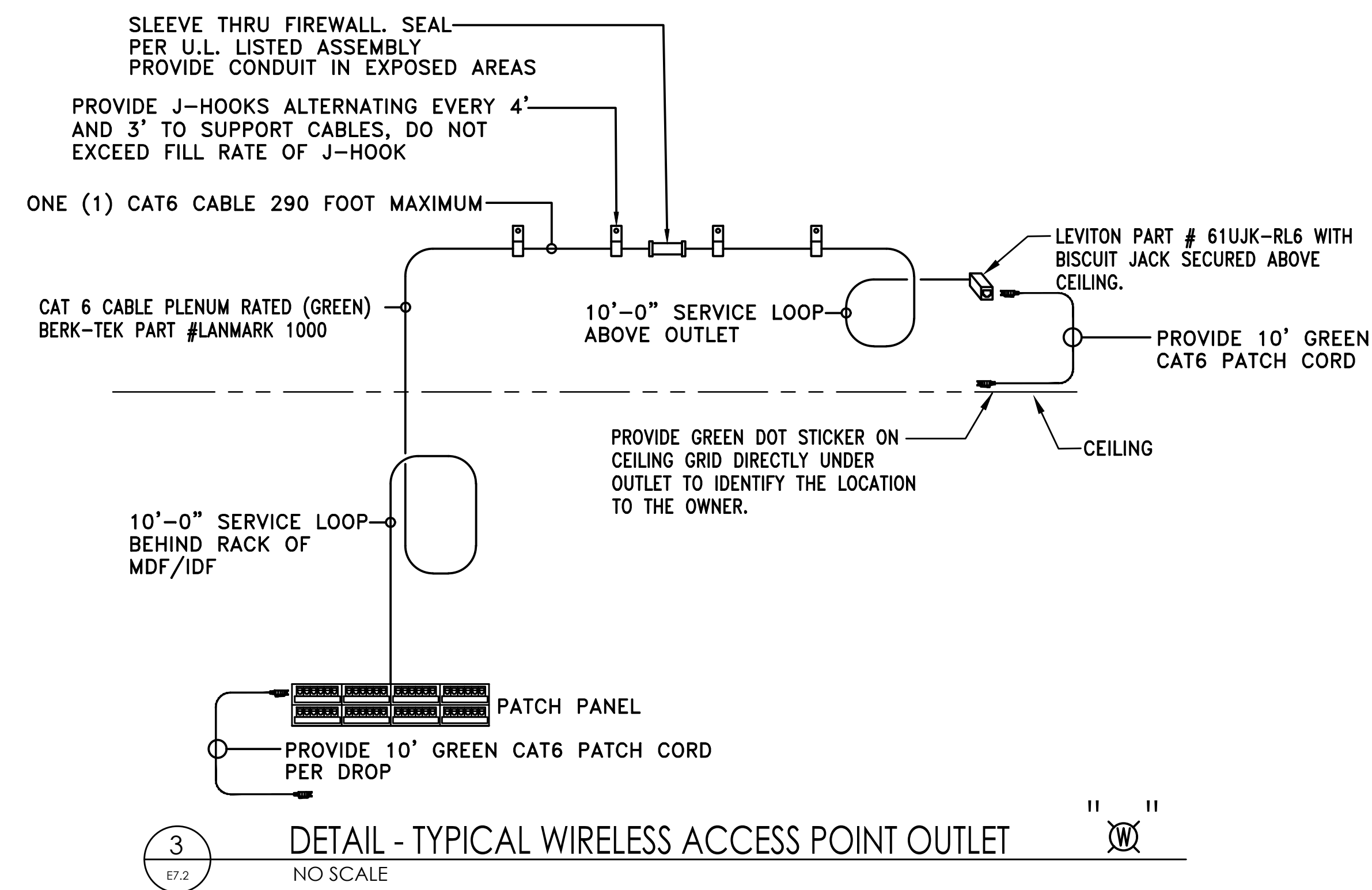
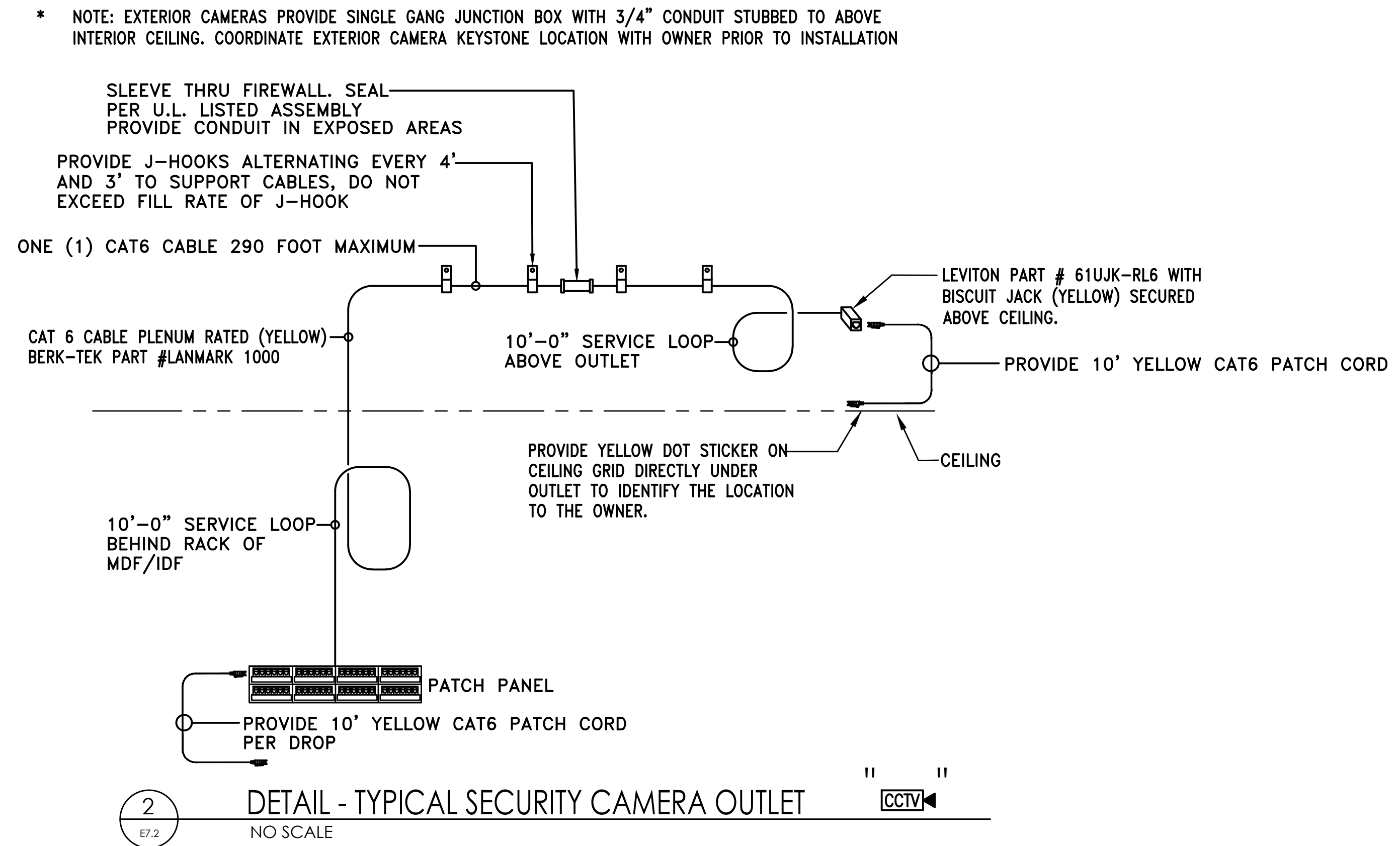
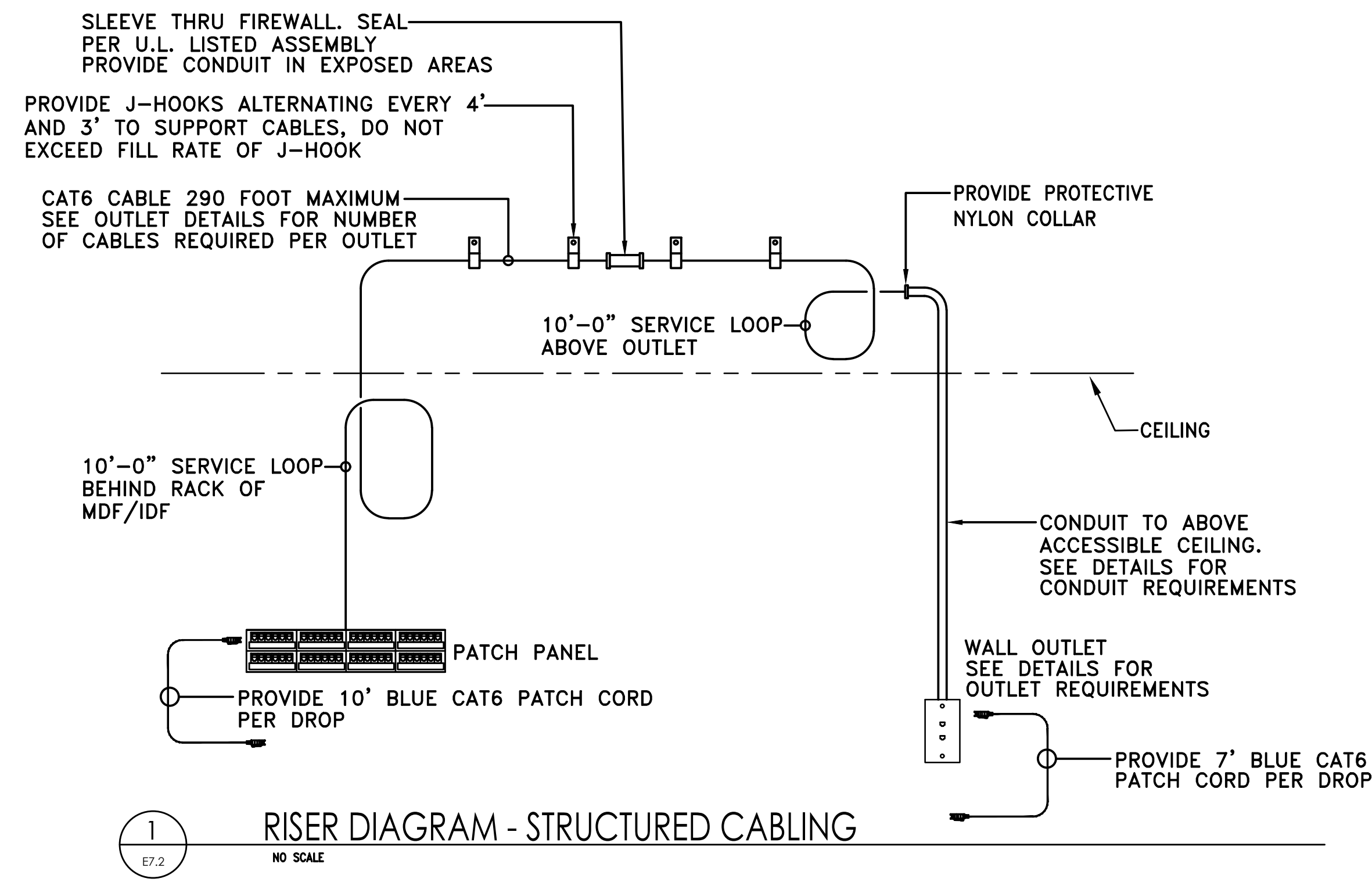
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SHEET NO. : **E7.1**

-USUJLWMS-NQUZLZ4Z4Z4Z4-T1UJLUNJEN F1LCH-SU-CHULULURAMINGSR06CZ4-T1U E7.1.dwg
 - Thursday, August 29, 2024 11:35:02 AM



ADDITION TO
LINDEN HIGH SCHOOL
 FOR THE
LINDEN CITY BOARD OF EDUCATION
 LINDEN, ALABAMA

MCKEE & ASSOCIATES
 ARCHITECTS, INC.
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : COMMUNICATION DETAILS & NOTES

MCKEE JOB # : 22-315

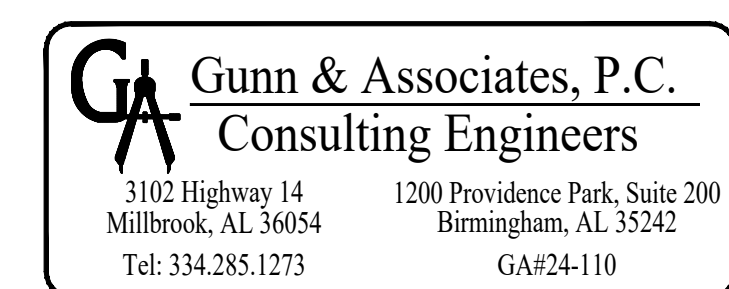
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SHEET NO. : **E7.2**

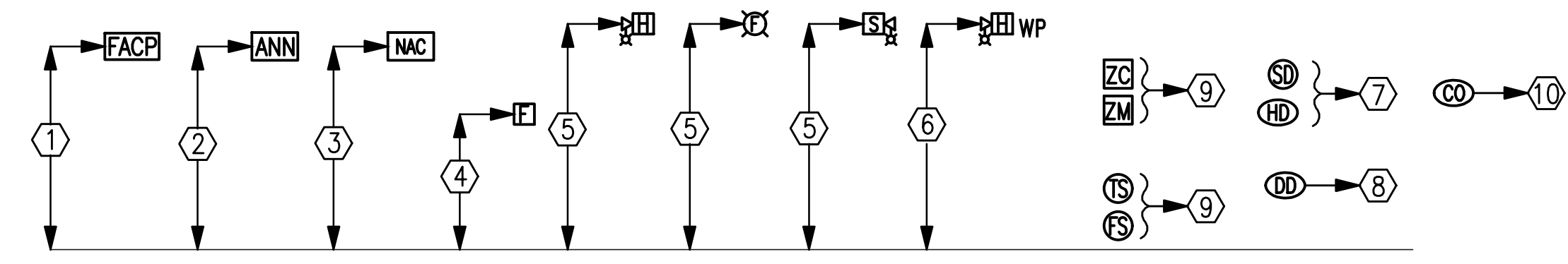
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 - Thursday, August 29, 2024 11:32:23 AM

FIRE ALARM SYSTEM NOTES:

- THE FIRE ALARM SYSTEM SHALL BE A COMPLETE SUPERVISED DETECTION AND ALARM SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- INSTALLATION SHALL COMPLY WITH THE ADA, NEC, NFPA, AND UL.
- ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC., SHALL BE GROUNDED.
- THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR CLASS "B" SYSTEM AND AS FOLLOWS:
PRIMARY POWER - 120V AC
NOTIFICATION APPLIANCE CIRCUITS (NAC) - 24V DC
SIGNALLING LINE CIRCUIT (SLC) - 24V DC
- 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 SECURED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
- A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ALL FIRE ALARM DEVICE QUANTITIES FROM AUXILIARY DRAWINGS. DO NOT USE THIS RISER FOR DEVICE COUNTS.
- THE CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE AUDIBILITY CALCULATIONS INDICATING COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 72 AND THE IBC. THE CONTRACT DRAWINGS INDICATE A MINIMUM DESIGN REQUIRED TO COMPLY WITH APPLICABLE CODES. HOWEVER, SINCE DEVICES VARY FROM MANUFACTURER TO MANUFACTURER THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ANY/ALL ADDITIONAL DEVICES AS REQUIRED TO PROVIDE AUDIBILITY AND VISIBILITY LEVELS THAT COMPLY WITH APPLICABLE SECTIONS OF NFPA 72 AND IBC.
- PROVIDE ADDITIONAL 100% SPARE CAPACITY IN FIRE ALARM CONTROL PANEL FOR FUTURE USE.
- PROVIDE EMERGENCY BATTERIES CAPABLE OF RUNNING THE COMPLETE FIRE ALARM SYSTEM IN ALARM MODE, PER NFPA GUIDELINES AT A MINIMUM. BATTERIES SHALL BE SIZED TO HANDLE THE FUTURE CAPACITY.
- THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. PROVIDE IP DIALER FOR MONITORING OF THE FIRE ALARM SYSTEM.
- ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". PROVIDE ALL FIRE ALARM CONDUIT WITH 3" WIDE RED STRIPE EVERY 10' FOR LENGTH OF RUN.
- PROVIDE ALL FIRE ALARM JUNCTION BOXES WITH RED COVER, STENCIL THE LETTERS "FA" IN 2" HIGH LETTERS ON EACH BOX COVER.
- FIRE ALARM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.
- IN ADDITION TO THE DEVICES INDICATED ON THE PLANS THE CONTRACTOR SHALL PROVIDE A SMOKE DETECTOR LOCATED WITHIN 5 FEET OF EACH FIRE ALARM NOTIFICATION APPLIANCE PANEL.
- CONTRACTOR SHALL PROVIDE ALL ADDITIONAL 120 VOLT CIRCUITS NEEDED TO MAKE THE FIRE ALARM SYSTEM A COMPLETE FUNCTIONAL SYSTEM.
- PROVIDE VOICE EVACUATION PER IBC SECTION 907 AND ALL SECTIONS OF THE INTERNATIONAL FIRE CODE.
- "CLG" DENOTES A CEILING MOUNTED DEVICE AND "WP" DENOTES WEATHERPROOF DEVICE..
- SEE STANDARD MOUNTING HEIGHT INSTRUCTIONS ON DETAILS (2) THIS SHEET.
- CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE SMOKE DETECTOR REPORTS AT THE FINAL TESTING OF THE FIRE ALARM SYSTEM TO SHOW THAT ALL SMOKE DETECTORS ARE LESS THAN 10% DIRTY. ANY SMOKE DETECTOR GREATER THAN 10% DIRTY SHALL BE CLEANED OR REPLACED UNTIL VALUE IS LESS THAN 10%.

FIRE ALARM MOUNTING HEIGHTS/INSTRUCTIONS NOTES:

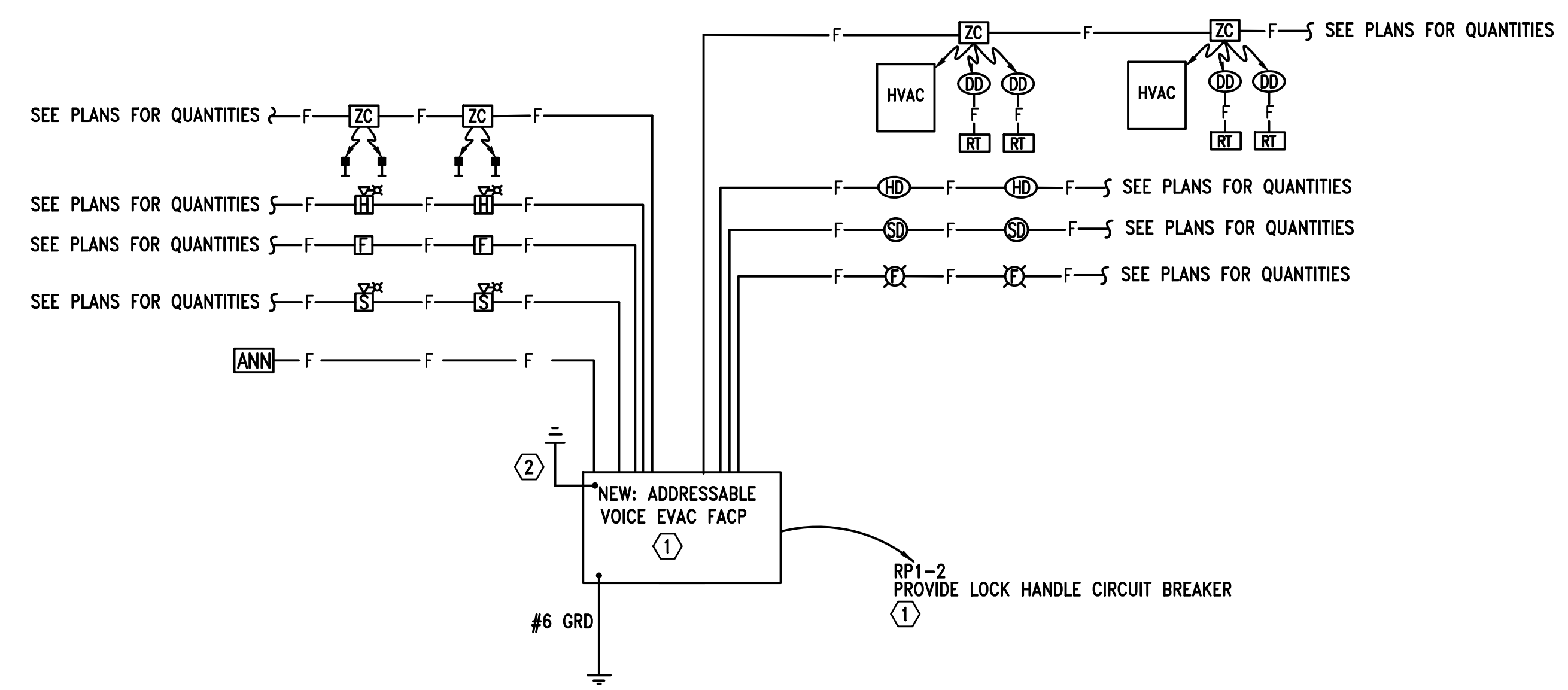
- MOUNT FIRE ALARM ENCLOSURE WITH THE TOP OF THE CABINET 72" ABOVE THE FINISHED FLOOR OR CENTER THE CABINET AT 63", WHICHEVER IS LOWER.
- MOUNT ANNUNCIATOR WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER OF THE PANEL AT 63", WHICHEVER IS LOWER. FLUSH MOUNT ANNUNCIATOR UNLESS OTHERWISE NOTED.
- REMOTE POWER SUPPLIES AND AUXILIARY FIRE ALARM PANELS. LOCATE THE PANEL OR CABINET WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER THE PANEL AT 63", WHICHEVER IS LOWER. DO NOT LOCATE THESE PANELS ABOVE CEILINGS OR WHERE INACCESSIBLE BY A PERSON STANDING ON THE FINISHED FLOOR OF THE SPACE.
- MOUNT STATIONS SO THAT THEIR OPERATING HANDLES ARE BETWEEN 42" AND 48" ABOVE THE FINISHED FLOOR. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER HANDLE HEIGHT.
- ALL WALL MOUNTED AUDIO/VISUAL DEVICES SHALL BE MOUNTED SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE THE FINISHED FLOOR. WHERE LOW CEILING HEIGHTS DO NOT PERMIT MOUNTING AT A MINIMUM OF 80" AFF, VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER LENS HEIGHT.
- WEATHER PROOF APPLIANCES INSTALLED OUTDOORS SHALL BE UL LISTED FOR OUTDOOR USE. MOUNT SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE FINISHED FLOOR. FOR WEATHERPROOF APPLIANCES MOUNTED AT FIRE DEPARTMENT CONNECTION (FDC), COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN FOR MOUNTING HEIGHT.
- SMOKE AND HEAT DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. IF DETECTOR HEADS ARE INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP, PROTECTIVE COVERS MUST BE IN PLACE TO PROTECT DETECTOR HEADS FROM PARTICULATE DAMAGE. DETECTORS LOCATED ON THE WALL SHALL HAVE THE TOP OF THE DETECTOR AT LEAST 4" AND NOT MORE THAN 12" BELOW THE CEILING. INSTALL SMOKE DETECTORS NO CLOSER THAN 3 FEET FROM AIR HANDLING SUPPLY AIR DIFFUSERS OR RETURN AIR OPENINGS. LOCATE DETECTORS NO CLOSER THAN 12" FROM ANY PART OF A LIGHTING FIXTURE.
- DUCT SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. DETECTOR HEADS INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP SHALL BE REPLACED. DUCT DETECTORS ARE TO BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- ADDRESSABLE MODULES SHALL BE INSTALLED LESS THAN 3- FEET FROM THE DEVICE BEING CONTROLLED OR MONITORED. ORIENT THE DEVICE MOUNTING FOR BEST MAINTENANCE ACCESS. LABEL ALL ADDRESSABLE MODULES AS TO THEIR FUNCTION.
- MOUNT WITHIN 5'-0" OF FURNACE DISCHARGE REGISTER.



(2) STANDARD MOUNTING HEIGHTS/INSTRUCTIONS
NO SCALE

SHEET NOTES:

- PROVIDE SURGE SUPPRESSION ON ALL INCOMING AND OUTGOING CABLES WHERE THEY ENTER OR EXIT THE FACILITY. SURGE SUPPRESSION WILL BE REQUIRED FOR EACH CABLE.
- PROVIDE A UL LISTED CELLULAR COMMUNICATOR IN THE NEW FIRE ALARM PANEL. MUST BE COMPATIBLE WITH THE CURRENT COUNTY WIDE EST MONITORING SYSTEM.



(1) FIRE ALARM RISER DIAGRAM
NO SCALE

EMERGENCY RADIO SYSTEM	
PROVIDE EMERGENCY RESPONDER RADIO SYSTEM TO MEET 2021 INTERNATIONAL FIRE CODE WITHIN THE BUILDING. SYSTEM SHALL MEET UL2924 AND COMPLY WITH IBC 2021 510.	
BASE BID:	
1.	ELECTRICAL CONTRACTOR SHALL PROVIDE (1) SIGNAL STRENGTH TEST AT (5) LOCATIONS ON SITE WITHIN PROPOSED BUILDING FOOTPRINT. THE RESULTS SHALL BE SUBMITTED TO THE FIRE MARSHAL FOR ACCEPTANCE.
2.	PROVIDE SHOP DRAWING FOR A DISTRIBUTION ANTENNA SYSTEM WITH AMPLIFIER TO COVER THE ENTIRE STRUCTURE TO MEET 510.4. SHOP DRAWINGS SHALL INCLUDE AMPLIFIER INFORMATION, ANTENNA LOCATIONS/COVERAGE, BATTERY DATA.
3.	ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY CONDUIT WITH NYLON PULL STRINGS AS REFLECTED ON DRAWINGS. CONDUIT SHALL BE INSTALLED AS BASED BID AND ARE NOT ALLOWED FOR USE WITH ANY OTHER SYSTEM. ALL EMERGENCY RESPONDER RADIO SYSTEM CONDUIT SHALL BE MARKED WITH 'BDA'.
4.	ELECTRICAL CONTRACTOR SHALL PROVIDE (1) SIGNAL STRENGTH TEST WITHIN THE BUILDING AT BOX COMPLETION OF CONSTRUCTION. THE RESULTS SHALL BE SUBMITTED TO THE FIRE MARSHAL FOR ACCEPTANCE. IF SIGNAL STRENGTH AT ANY PORTION OF THE BUILDING FALLS BELOW REQUIREMENTS OF IFC 510 AN EMERGENCY RESPONDER RADIO SYSTEM SHALL BE PROVIDED. SEE ALLOWANCE FOR ADDITIONAL INFORMATION.
ALLOWANCE:	
1.	IF THE TEST SIGNAL IS DEEMED NOT TO BE ACCEPTABLE THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING BY ALLOWANCE: PROVIDE AMPLIFIER, ANTENNA AND ALL ADDITIONAL REQUIRED SYSTEM PARTS IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS (SEE ITEM 2 UNDER BASE BID ABOVE) AND IFC 2021 510.5. THIS INCLUDES OBTAINING PERMIT PER SECTION 510.3. THE SYSTEM SHALL BE RETESTED BY THE TESTING AGENCY PER 510.5.3 AND TEST RECORDS SHALL BE PROVIDED TO THE FIRE MARSHAL FOR ACCEPTANCE.

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SHEET TITLE : FIRE ALARM RISER, DETAILS, & NOTES

 MCKEE JOB # : 22-315

 DRAWN BY : AHB
 DATE : 8/27/2024

 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

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SHEET NO. : **E8.1**

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 - Thursday, August 29, 2024 11:31:28 AM