

NEW GROUNDS FACILITY

TROY ALABAMA

for

THE CITY OF TROY

TROY CITY HALL, 306 E. ACADEMY STREET, TROY, ALABAMA 36081

OWNER

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358 Elba Hwy
Troy, AL 36079
Phone: (334) 566-3741

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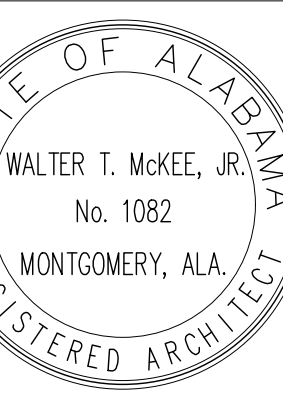
ELECTRICAL

GARNER & ASSOCIATES ENGINEERING, PC
901 South Perry Street
Montgomery, Alabama 36104
Phone: (334) 647.1596

NEW GROUNDS FACILITY

TROY ALABAMA
for
THE CITY OF TROY
TROY CITY HALL, 306 E. ACADEMY STREET, TROY, ALABAMA 36081

SHEET TITLE:
COVER SHEET AND INDEX

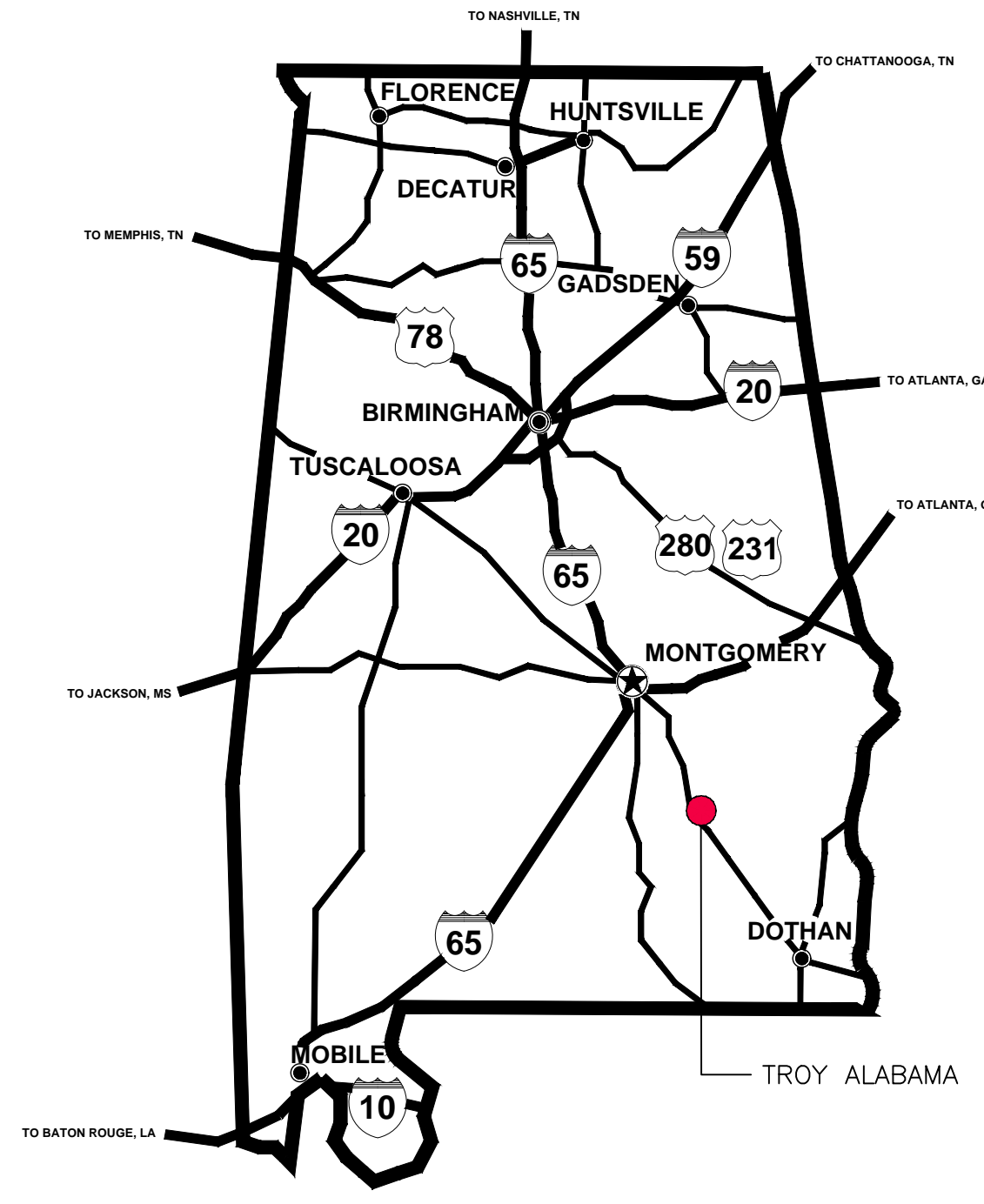
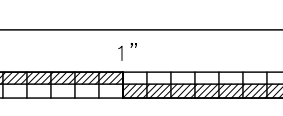


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DRAWN: -
DATE: 04/28/2026
REVISIONS:

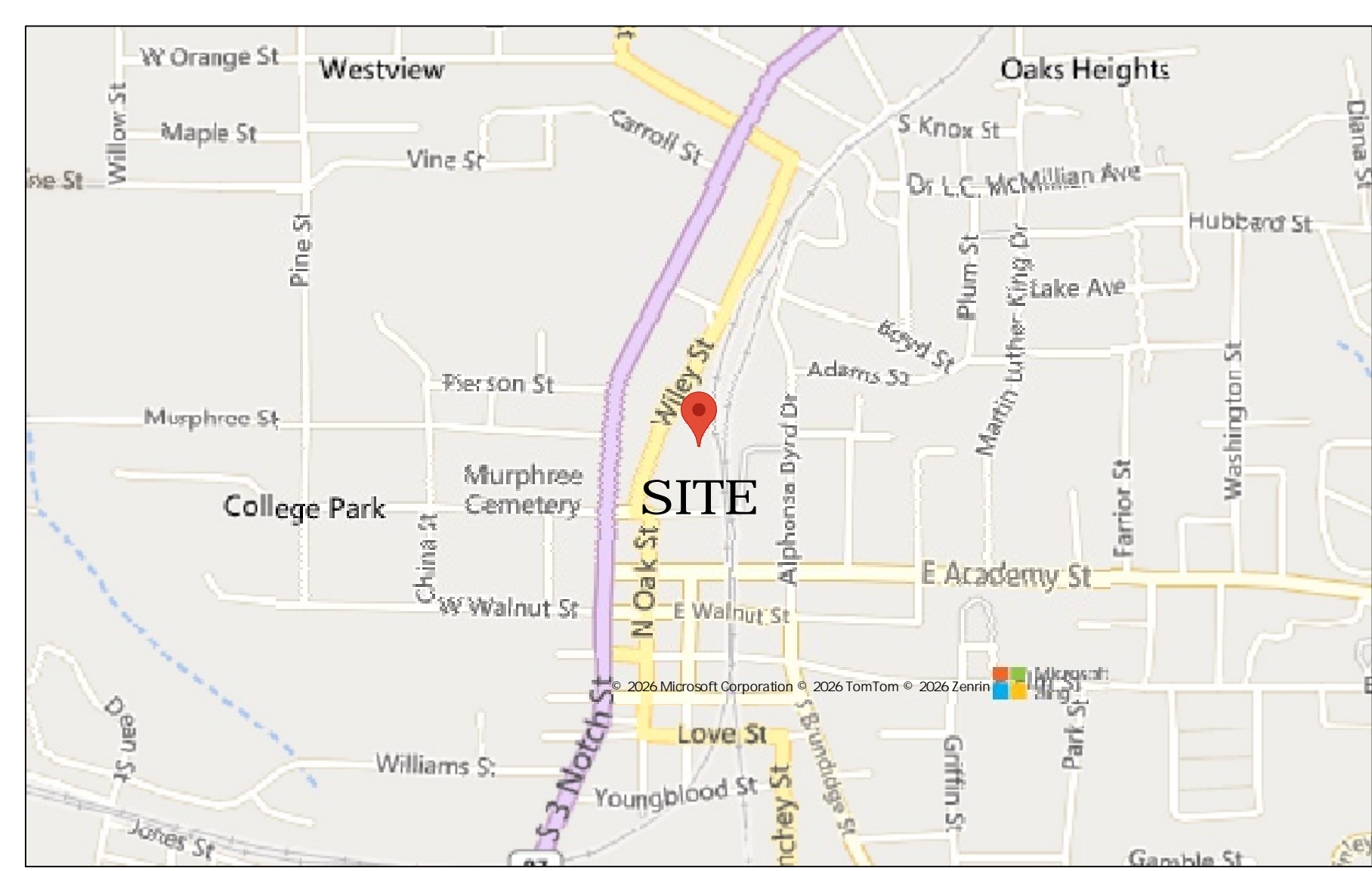
JOB NO. 25-320

SHEET NO:

T1.0



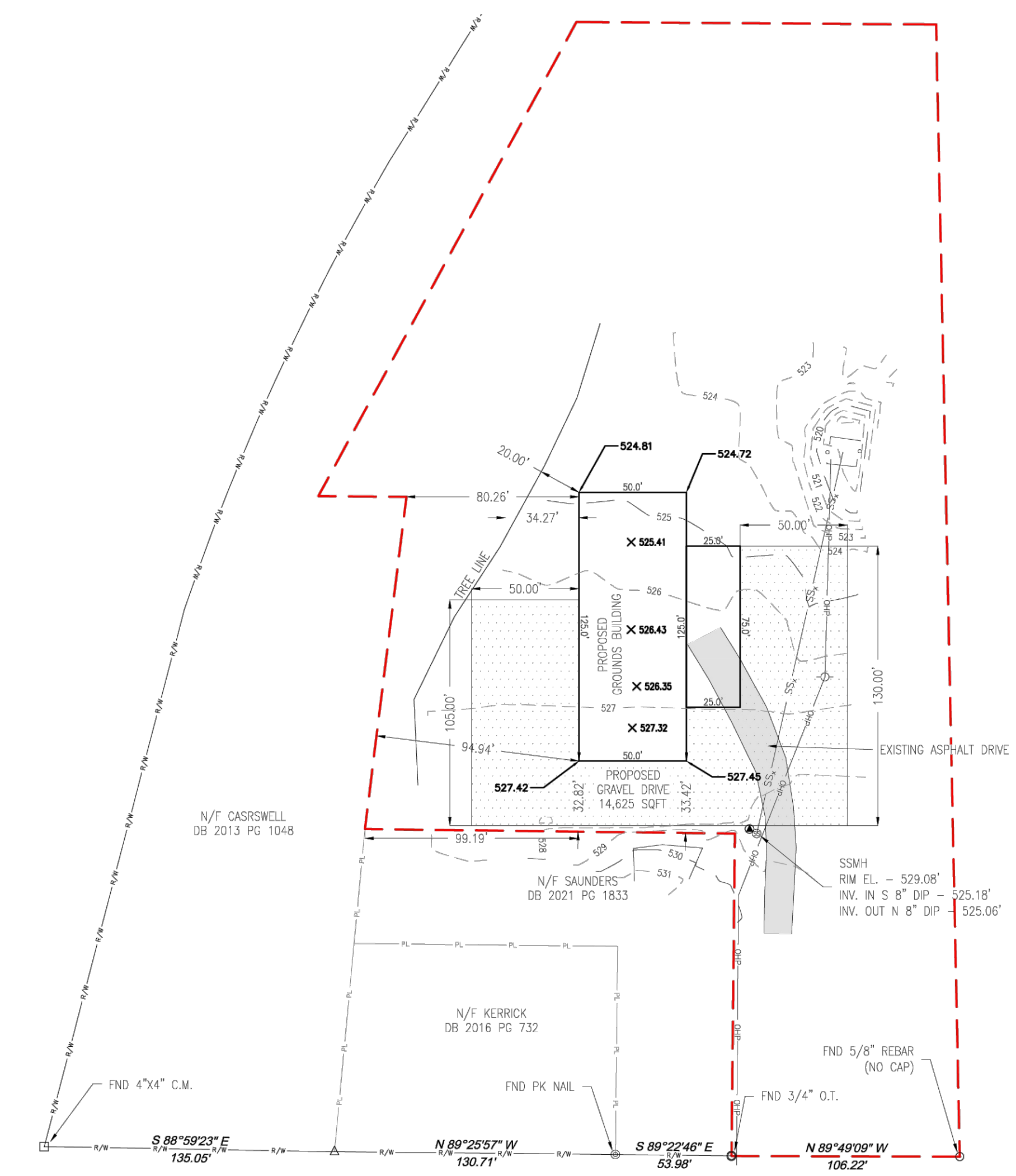
AREA MAP
STATE OF ALABAMA



VICINITY MAP
TROY ALABAMA

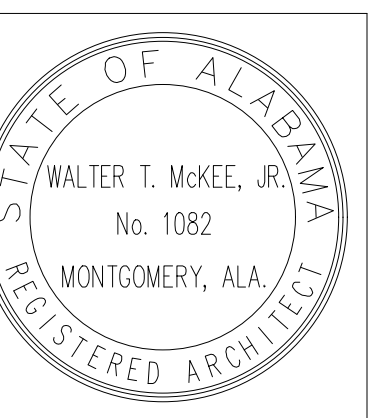
INDEX TO DRAWINGS

| GENERAL | |
|---------------|--|
| T0.1 | COVER SHEET AND INDEX TO DRAWINGS |
| LS1.1 | LIFE SAFETY PLAN |
| CIVIL | |
| N/A | |
| STRUCTURAL | |
| S1.1 | FOUNDATION PLAN |
| S2.1 | FOUNDATION DETAILS |
| ARCHITECTURAL | |
| A1.1 | FLOOR PLAN & SCHEDULES |
| A2.1 | ROOF PLAN |
| A2.2 | DOOR SCHEDULE AND DETAILS |
| A3.1 | EXTERIOR ELEVATIONS & BUILDING SECTION |
| A3.3 | WALL SECTIONS & DETAILS |
| A3.4 | PARTITION TYPES |
| PLUMBING | |
| P1.1 | WASTE AND VENT PIPING FLOOR PLAN |
| P2.1 | WATER PIPING FLOOR PLAN |
| P2.2 | GAS PIPING FLOOR PLAN |
| P3.1 | GENERAL NOTES, DETAILS, AND SCHEDULES |
| P3.2 | DETAILS |
| MECHANICAL | |
| M1.1 | FLOOR PLAN |
| M2.1 | SCHEDULES AND NOTES |
| M2.2 | SCHEDULES AND NOTES |
| ELECTRICAL | |
| E0.1 | ELECTRICAL SYMBOL LEGEND & NOTES |
| E0.2 | LIGHTING FIXTURE SCHEDULE, DETAILS & NOTES |
| E0.3 | POWER RISER DIAGRAM, DETAILS & NOTES |
| E0.4 | PANELBOARD SCHEDULE, DETAILS & NOTES |
| E0.5 | ELECTRICAL DETAILS |
| E0.6 | ELECTRICAL DETAILS |
| E1.0 | SITE ELECTRICAL PLAN |
| E2.0 | LIGHTING PLAN |
| E3.0 | POWER PLAN |
| E4.0 | AUXILIARY PLAN |



PROPOSED SITE
N.T.S.
PROVIDED FOR REFERENCE ONLY.
CONFIRM FINAL LOCATION WITH OWNER.
UTILITY LOCATIONS AND CONNECTIONS
TO BE DETERMINED BY THE OWNER.

-Z:\2025\25-320 New Maintenance Facility City of Troy\CAD Drawings\Architectural-T1.X Cover Sheet and Index (Lathan-McKee 30x42).dwg
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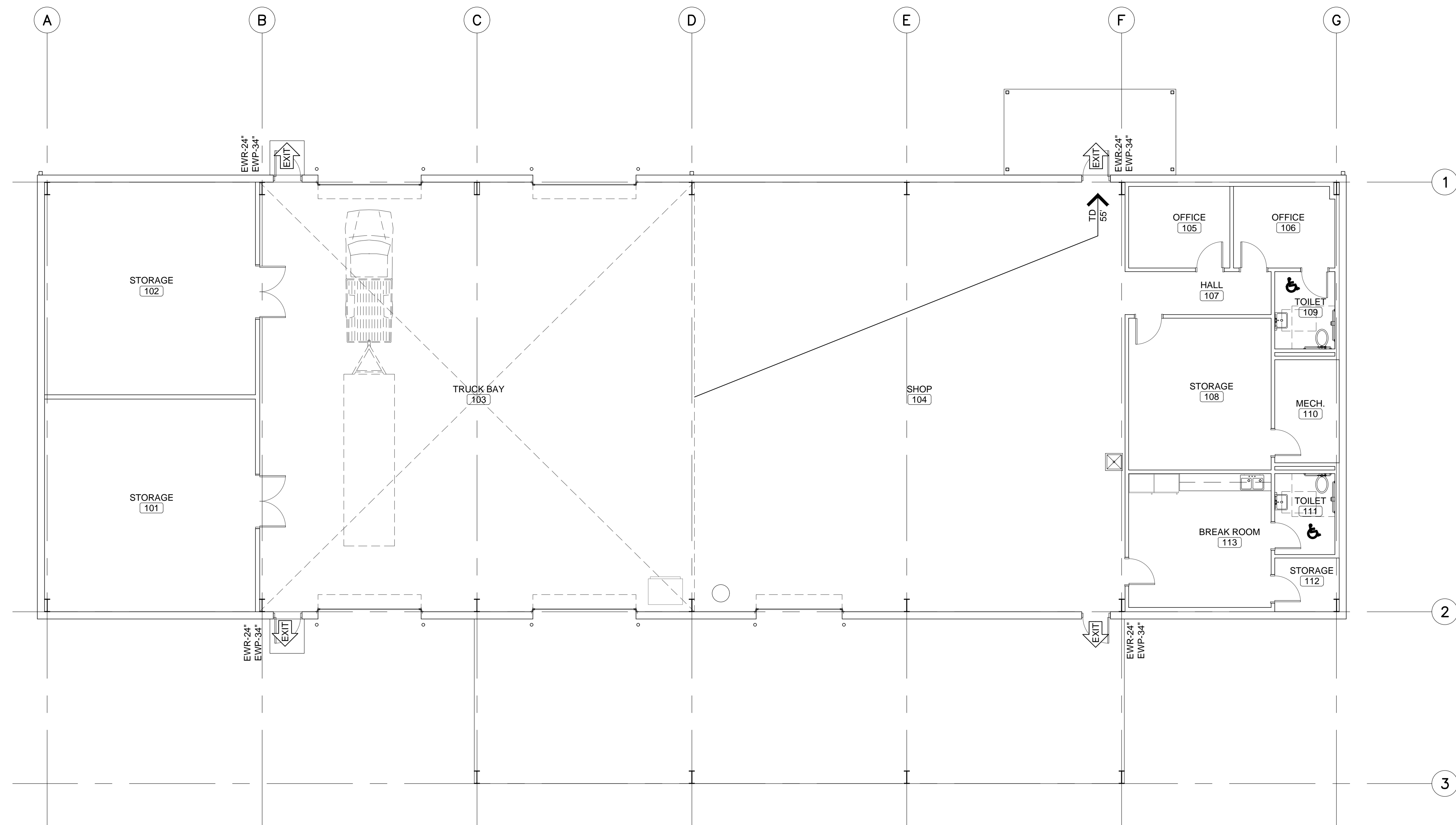
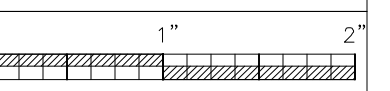


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| PROJ. MGR.: | FGH |
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LS1.1



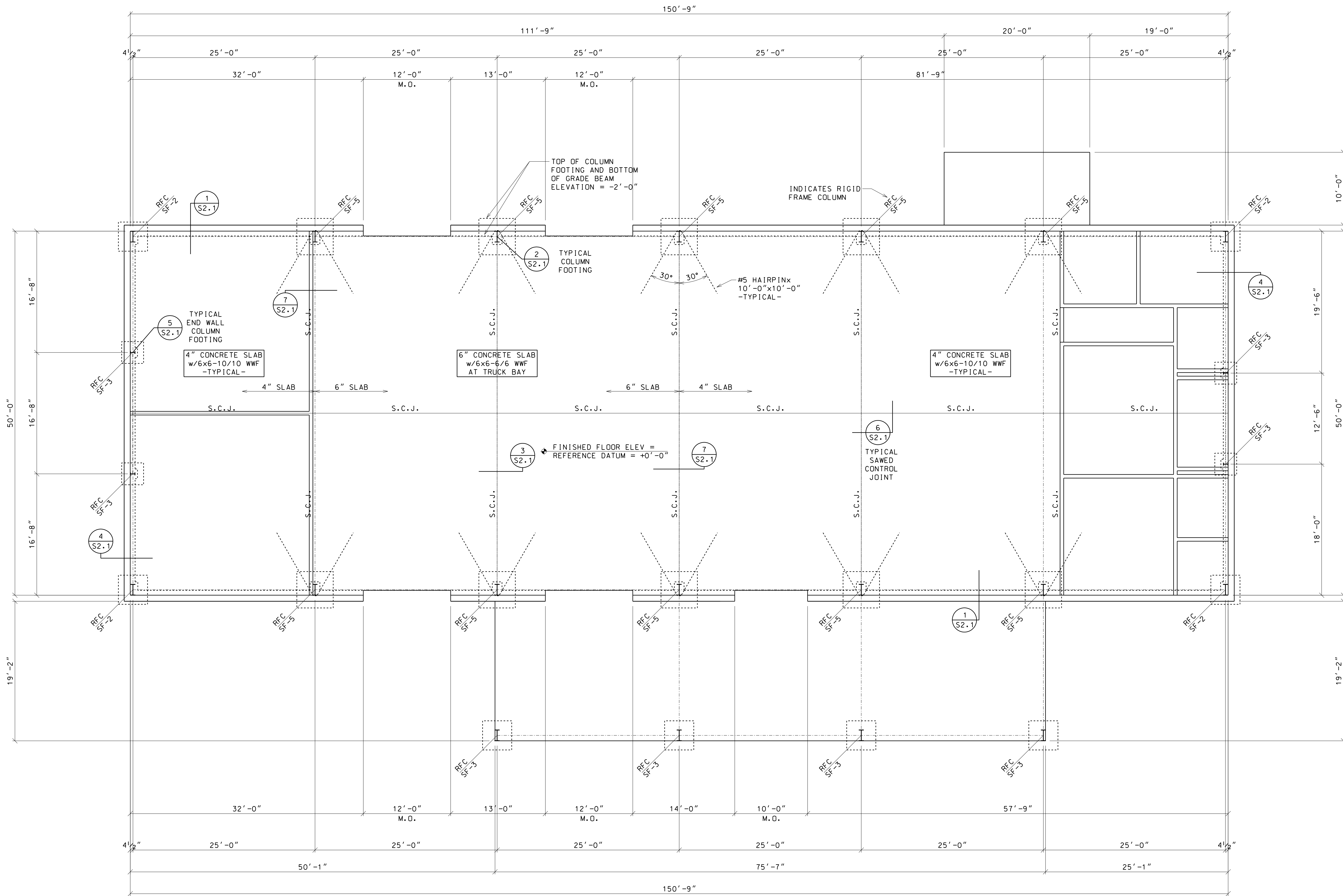
LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

| LIFE SAFETY LEGEND | |
|--------------------|--|
| SYMBOL | DESCRIPTION |
| | PRIMARY BUILDING EXIT |
| | TRAVEL DISTANCE NEAREST TO EXIT |
| | HANDICAP ACCESSIBLE |
| | FIRE EXTINGUISHER LOCATION (SEE DETAIL AX.X) |
| | EXIT WIDTH REQUIRED EXIT WIDTH PROVIDED |
| | ACTUAL OCCUPANT LOAD SERVED TOTAL EGRESS CAPACITY |

| CODE REVIEW | |
|--|---|
| CODE: | 2021 INTERNATIONAL BUILDING CODE |
| OCCUPANCY TYPE (SECTION 302 & 311.2): | GROUP 'S-1' MODERATE-HAZARD STORAGE |
| SPRINKLERED (SECTION 903): | NOT REQUIRED (SECTION 903.2.9) |
| MAXIMUM HEIGHT ABOVE GROUND PLANE (TABLE 504.3): | 55 FT |
| NUMBER OF STORIES (TABLE 504.4): | 3 |
| CONSTRUCTION TYPE (SECTION 602): | TYPE II B |
| TYPE II B, REQUIRES THE FOLLOWING FIRE RESISTANCE (TABLE 601): | |
| 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 |
| OTHER REQUIREMENTS: | |
| FIRE WALL RATING (TABLE 706.4): | NOT APPLICABLE |
| OCCUPANCY SEPARATION (TABLE 508.4): | NOT REQUIRED ACCESSORY OCCUPANCY IS LESS THAN 10% OF ALLOWED SQ FT. |
| INCIDENTAL USE AREAS (TABLE 509.1): | NOT REQUIRED |
| FIRE-RESISTANT CORRIDORS (TABLE 1020.2): | CORRIDORS SERVING MORE THAN 30 OCCUPANTS IN NON-SPRINKLERED TYPE 'B' OCCUPANCY SHALL NOT BE REQUIRED TO BE RATED. |
| SHAFT ENCLOSURES (713.4 & 703.2.1.1): | NOT APPLICABLE |
| SINGLE OCCUPANCY FIRE BARRIERS (TABLE 707.3.10): | NOT REQUIRED |
| EXIT ACCESS TRAVEL DISTANCE: | IS 200 FEET FOR NON-SPRINKLERED (TABLE 1017.2) |

| BUILDING AREA CALCULATIONS | |
|---|-------------|
| TOTAL BUILDING AREA | |
| OCCUPANCY TYPE (SECTION 302): | GROUP 'S-1' |
| CONSTRUCTION TYPE (SECTION 602): | II B |
| ALLOWABLE AREA (NS, Type II B) 17,500 SQ FT (TABLE 506.2) | |
| FRONTAGE INCREASE FACTOR (TABLE 506.3.3) | |
| PERCENTAGE OF OPEN BUILDING PERIMETER = 100% | |
| 388 (open perimeter) / 388 (total perimeter) = 1 | |
| WIDTH OF OPEN SPACE AROUND BLDG (MIN 20FT) = 30 feet | |
| If = 0.75 | |
| (17,500 x 0.75) = 13,125 SF AREA INCREASE | |
| ALLOWABLE AREA W / FRONTAGE INCREASE: 30,625 SQ FT | |
| ACTUAL SF: 7,351 SQ FT | |
| ALLOWABLE HEIGHT (TABLE 504.3) ALLOWABLE # OF STORIES (TABLE 504.4) | |
| ALLOWABLE HEIGHT: 55 FT | |
| ALLOWABLE NO. OF STORIES: 3 | |
| ACTUAL BUILDING HEIGHT: ±19 FT | |
| ACTUAL NO. OF STORIES: 1 | |
| BUILDING AREA MODIFICATION (506.3) | |
| ALLOWABLE AREA (506.2.1) | |
| EQUATION 5-1: A _s = A _t + (NS x If) | |
| A _s = ALLOWABLE AREA | |
| A _t = TABULAR ALLOWANCE FACTOR | |
| NS = TABULAR ALLOWABLE AREA NON SPRINKLERED | |
| If = AREA INCREASE FACTOR DUE TO FRONTAGE TABLE 506.3.3 | |

| EXIT CALCULATIONS | |
|---|--|
| OCCUPANT LOAD | |
| OCCUPANT LOAD TOTAL (1004 & TABLE 1004.5) = | |
| ACCESSORY STORAGE AREA & MECHANICAL (150 GROSS) | |
| 6 PERSONS (1,735 SQ FT / 150 GROSS) | |
| SHOPS AND OTHER VOCATIONAL AREAS (50 SQ FT NET) | |
| 83 PERSONS (4,625 / 50 SQ FT NET) | |
| ASSEMBLY UNCONCENTRATED (15 SQ FT NET) | |
| 19 PERSONS (285 / 15 SQ FT NET) | |
| BUSINESS (OFFICES) | |
| 4 PERSONS (497 / 150 SQ. FT. GROSS) | |
| 121 PERSONS TOTAL | |
| EXIT REQUIREMENTS | |
| EXIT ACCESS (TABLE 1006.2.1 & TABLE 1006.3.3) | |
| MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE: OL=30, 75 FT | |
| NO. OF EXITS REQUIRED: 2 | |
| NO. OF EXITS FURNISHED: SEE PLAN | |
| MEANS OF EGRESS WIDTH (1005.3) | |
| SEE PLAN FOR EXIT WIDTHS | |
| MINIMUM CORRIDOR WIDTH (TABLE 1020.3) 36" | |
| MAXIMUM EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2): 200 FT | |



FOUNDATION PLAN — SCALE: 3/16"=1'-0"

04/08/2026

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STRUCTURAL NOTES

APPLICABLE CODES AND SPECIFICATIONS

INTERNATIONAL BUILDING CODE - 2021
AMERICAN CONCRETE INSTITUTE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AMERICAN IRON AND STEEL INSTITUTE
AMERICAN SOCIETY FOR TESTING AND MATERIALS
AMERICAN WELDING SOCIETY

DESIGN LOADS

- A. ROOF LIVE LOAD (ON HORIZONTAL PROJECTION)
 - FOR MEMBERS SUPPORTING 0-200 SQ. FT.20 psf
 - FOR MEMBERS SUPPORTING 200-600 SQ. FT.20 psf to 12 psf
 - FOR MEMBERS SUPPORTING MORE THAN 600 SQ. FT.12 psf
- B. GROUND SNOW LOAD (Pg)5 psf
- C. WIND LOAD
 - SNOW EXPOSURE FACTOR (Ce)0.90
 - SNOW LOAD IMPORTANCE FACTOR (I)1.10
 - THERMAL FACTOR (Ct)1.00
 - WIND LOAD
 - ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) (V)115 mph
 - NOMINAL DESIGN WIND SPEED (3-SECOND GUST) (V)89 mph
 - WIND IMPORTANCE FACTOR (I)1.10
 - WIND EXPOSUREC
 - INTERNAL PRESSURE COEFFICIENT+0.18/-0.18
 - COMPONENTS AND CLADDINGSEE DIAGRAM

FOUNDATIONS

FOUNDATIONS ARE DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 2500 psf FOR SQUARE COLUMN FOOTINGS AND 2000 psf FOR CONTINUOUS WALL FOOTINGS. FOOTINGS SHALL BE PLACED ON A FIRM STRATA CAPABLE OF SAFELY SUSTAINING THESE LOADS.
FILL UNDER FOOTINGS SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY (ASTM D-698). SEE SPECIFICATIONS FOR COMPACTION AND TESTING REQUIREMENTS.
FOOTING ELEVATIONS SHOWN ON PLAN ARE MINIMUM DEPTH.
UNUSUAL SOILS CONDITIONS MAY REQUIRE CHANGE IN FOOTING ELEVATION. CONTACT ARCHITECT AND/OR ENGINEER FOR APPROVAL TO CHANGE ELEVATION.

SLAB ON GRADE

UNLESS OTHERWISE NOTED, ALL SLABS ON GRADE SHALL BE REINFORCED WITH ONE LAYER 6#-10/10 W.W.F. PLACED AT 1/3 SLAB THICKNESS FROM TOP.
FILL UNDER SLAB SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY (ASTM D-698). SEE SPECIFICATIONS FOR COMPACTION AND TESTING REQUIREMENTS.

CONCRETE (CAST-IN-PLACE)

MINIMUM COMPRESSIVE STRENGTH OF CAST-IN-PLACE CONCRETE AT 28 DAYS SHALL BE:
FOUNDATIONS3000 psf
SLAB ON GRADE4000 psf
SEE SPECIFICATIONS FOR TESTING REQUIREMENTS.

REINFORCING STEEL

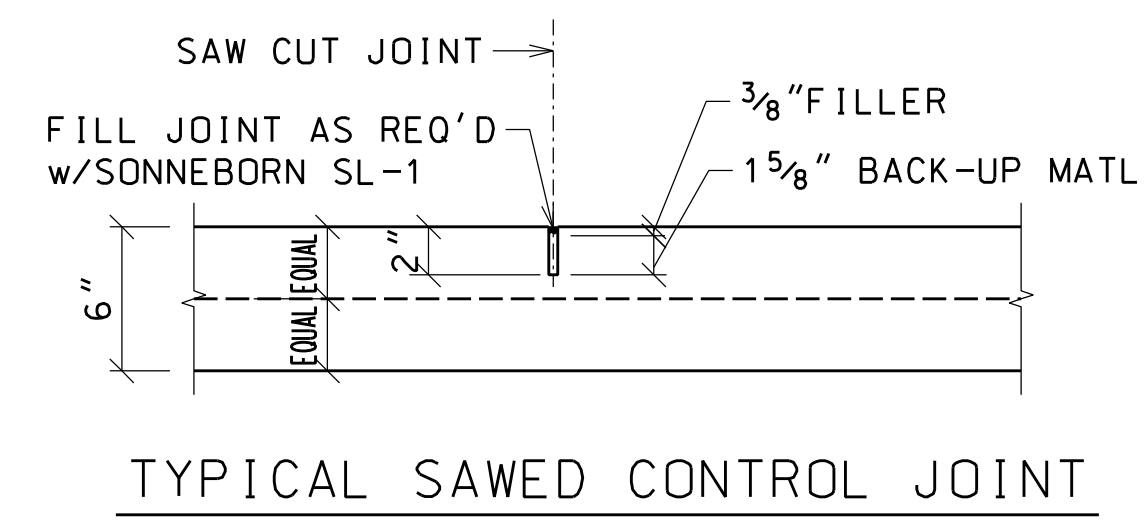
REINFORCING BARS SHALL BE DEFORMED BILLET STEEL BARS CONFORMING TO ASTM A615 SPECIFICATIONS. WELDED STEEL WIRE FABRIC SHALL BE PLAIN STEEL WIRE CONFORMING TO ASTM A185 SPECIFICATIONS.
MINIMUM YIELD STRENGTHS (fy) SHALL BE AS FOLLOWS:
REINFORCING BARS60,000 psi
BEAM STIRRUPS40,000 psi
UNLESS OTHERWISE DETAILED, PROTECTIVE CONCRETE COVER FOR REINFORCING STEEL SHALL NOT BE LESS THAN:
A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH3 in.
B. EXPOSED TO EARTH OR WEATHER2 in.
#5 BARS AND SMALLER1-1/2 in.
LAP ALL CONTINUOUS REINFORCEMENT 24 DIAMETERS MINIMUM, UNLESS OTHERWISE NOTED. AT CORNERS AND INTERSECTIONS, PROVIDE HOOKS OR CORNER BARS.
DOWEL ALL FOOTINGS, GRADE BEAMS AND WALLS, WHERE THEY ABUT, WITH SAME STEEL AS DETAILED HORIZONTAL REINFORCEMENT, 24 DIAMETERS MINIMUM LAP.

STRUCTURAL STEEL

MINIMUM MATERIAL STRENGTHS SHALL BE AS FOLLOWS:
STRUCTURAL STEEL50 ksi yield point
COLD FORMED GIRTS, PURLINS33 ksi yield point
ANCHOR BOLTSA-36
BOLTED STRUCTURAL JOINTSA-308X
WELD ELECTRODESE70XX

PREFABRICATED METAL BUILDINGS

ALL PREFABRICATED METAL BUILDING ELEMENTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH APPLICABLE CODES AND SPECIFICATIONS TO SUPPORT ALL LIVE LOADS NOTED ABOVE, DEAD LOADS AND CONCENTRATED LOADS. REQUIRED LATERAL BRACING (TEMPORARY AND PERMANENT) SHALL BE DESIGNED AND NOTED ON ERECTION DRAWINGS BY THE MANUFACTURER.
VERIFY ALL DIMENSIONS AND DETAILS SHOWN. NOTIFY ARCHITECT AND/OR ENGINEER OF ANY REQUIRED MODIFICATIONS.
SUBMIT DESIGN DRAWINGS BEARING THE ENGINEER'S REGISTRATION SEAL OF THE DESIGN ENGINEER.
SHOP DRAWINGS
SUBMIT FOR REVIEW TO THE ARCHITECT AND/OR ENGINEER, IN ACCORDANCE WITH THE SPECIFICATIONS, AS FOLLOWS:
A. PLACING PLANS AND DETAILS OF CONCRETE REINFORCEMENT, IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL (ACI 315).
B. LAYOUT AND DETAILS OF ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL.
SUBMITTAL SHALL BEAR THE APPROVAL STAMP OF THE CONTRACTOR, VERIFYING THAT THE DIMENSIONS AND DETAILS COMPLY WITH THE CONTRACT DRAWINGS.



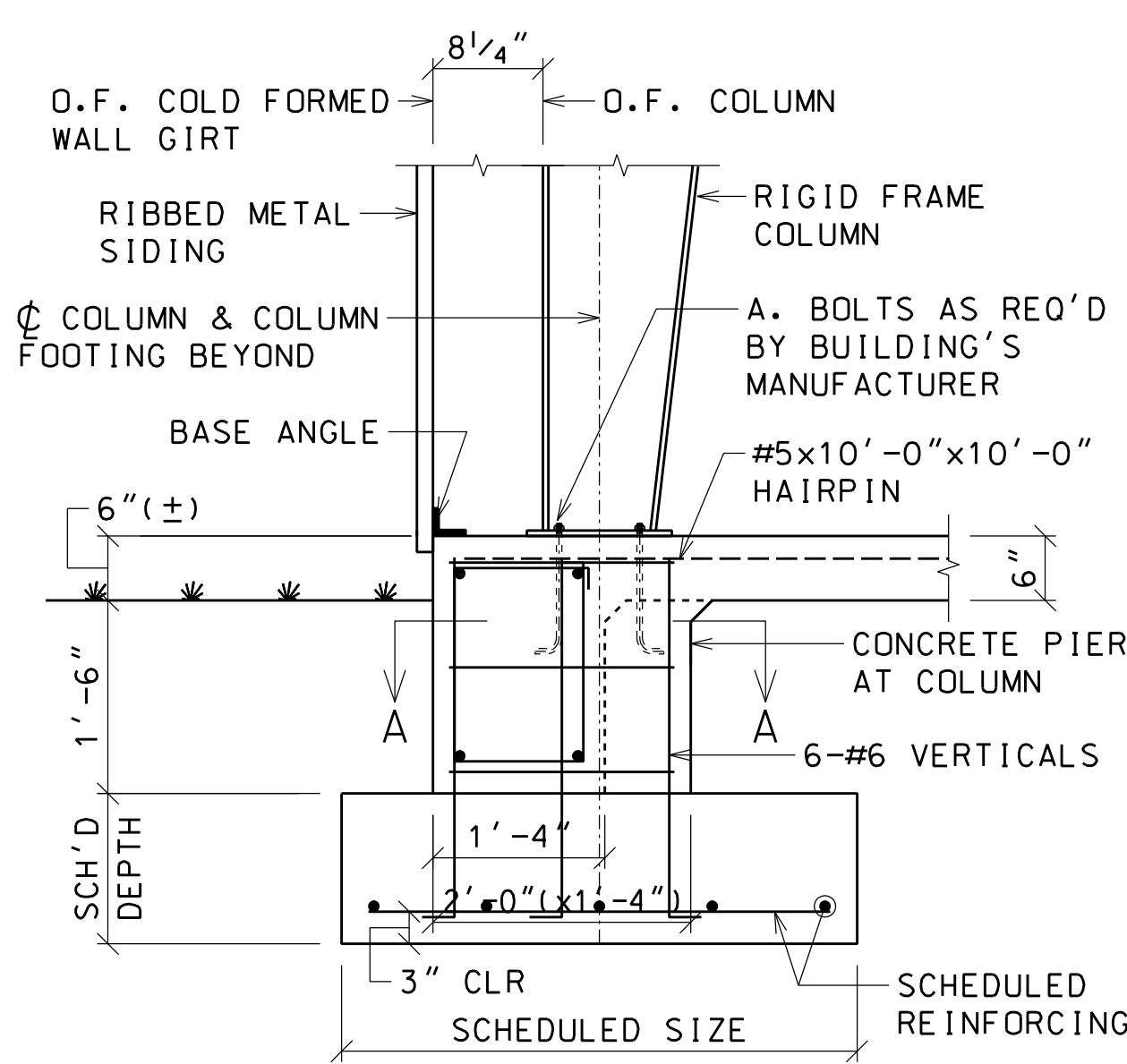
TYPICAL SAWED CONTROL JOINT

SECTION 3 1 1/2" = 1'-0"

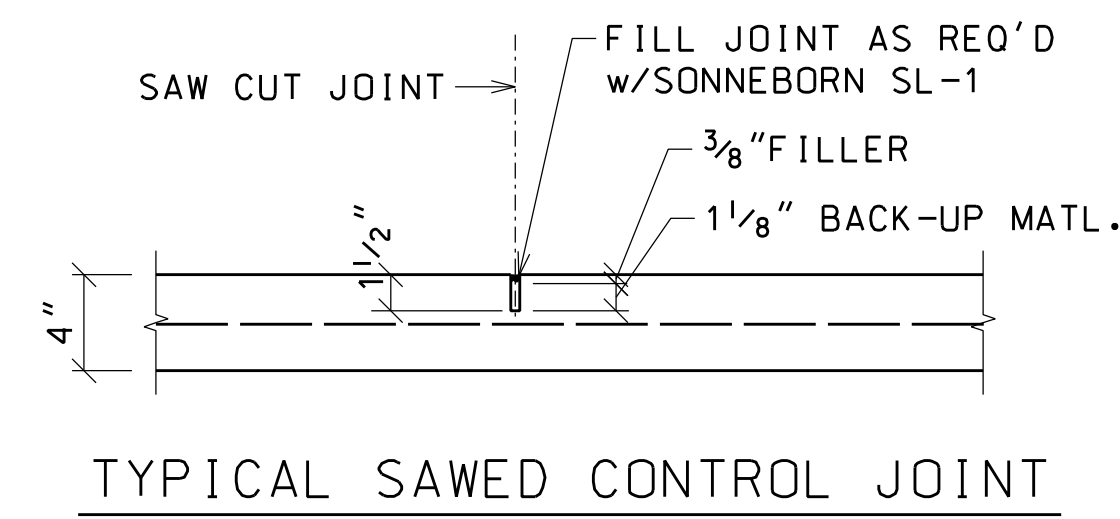
| SPREAD FOOTING SCHEDULE | | |
|-------------------------|-----------------------|-----------------|
| MARK | SIZE | REINF. E.A. WAY |
| SF-1 | 2'-0" x 2'-0" x 1'-0" | 3-#4 |
| SF-2 | 2'-6" x 2'-6" x 1'-0" | 3-#5 |
| SF-3 | 3'-0" x 3'-0" x 1'-0" | 4-#5 |
| SF-4 | 3'-6" x 3'-6" x 1'-0" | 4-#5 |
| SF-5 | 4'-0" x 4'-0" x 1'-0" | 4-#5 |
| SF-6 | 4'-6" x 4'-6" x 1'-2" | 5-#5 |
| SF-7 | 5'-0" x 5'-0" x 1'-4" | 6-#5 |

SOIL BEARING PRESSURE = 2500 psf

ALL FOOTINGS SCHEDULED ARE NOT NECESSARILY USED.

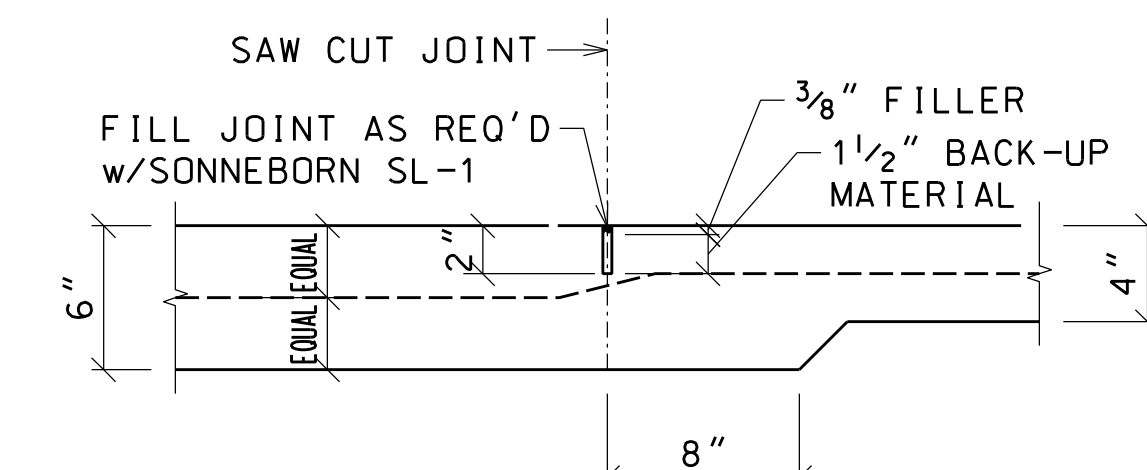


SECTION 2 3/4" = 1'-0"

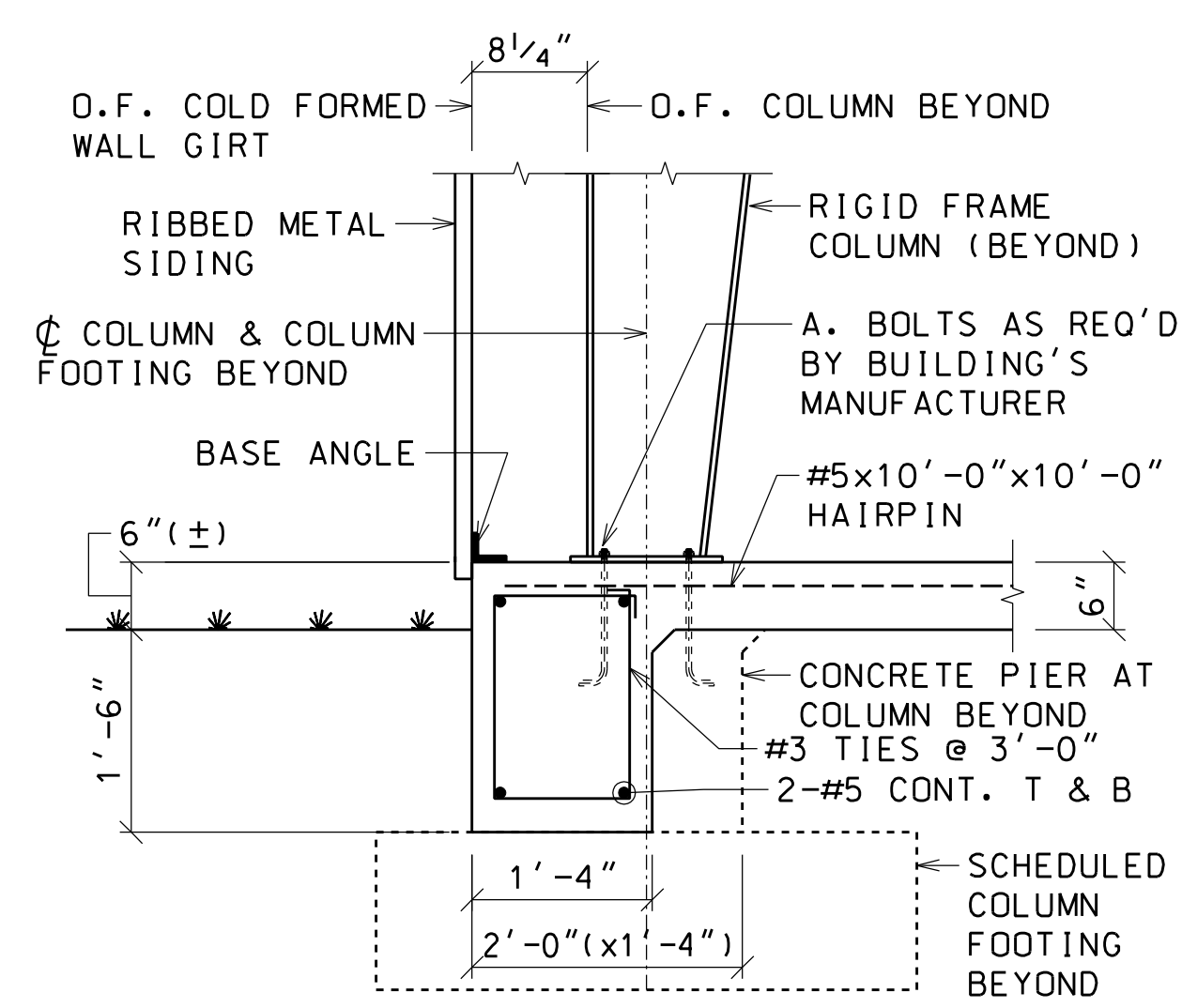


TYPICAL SAWED CONTROL JOINT

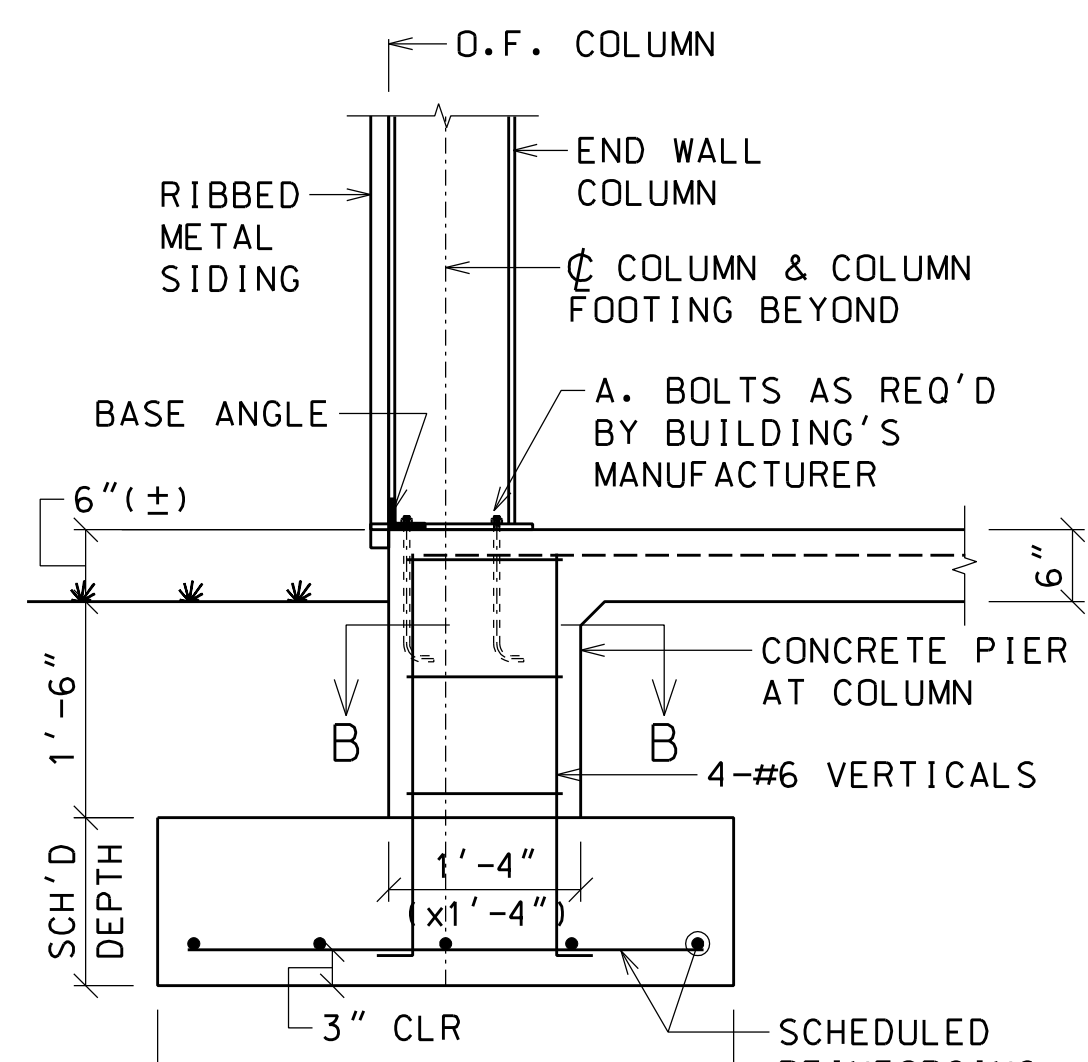
SECTION 6 1 1/2" = 1'-0"



SECTION 7 1 1/2" = 1'-0"



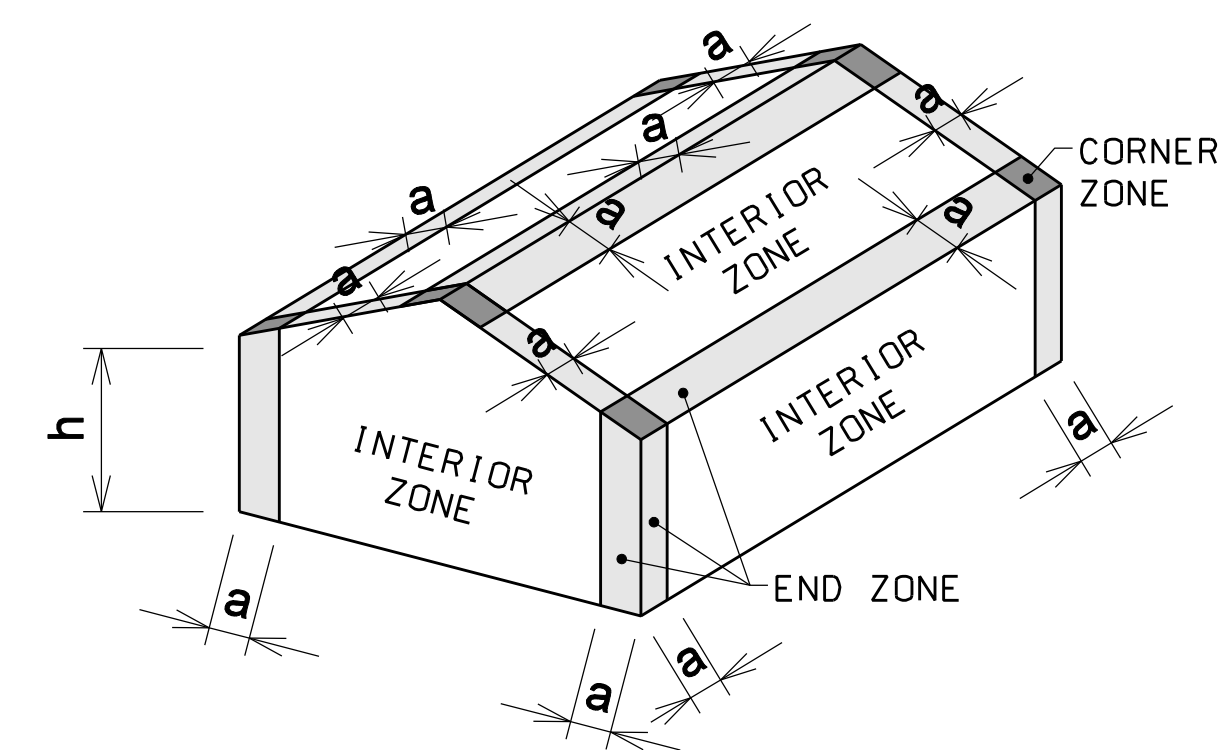
SECTION 1 3/4" = 1'-0"



SECTION 5 3/4" = 1'-0"

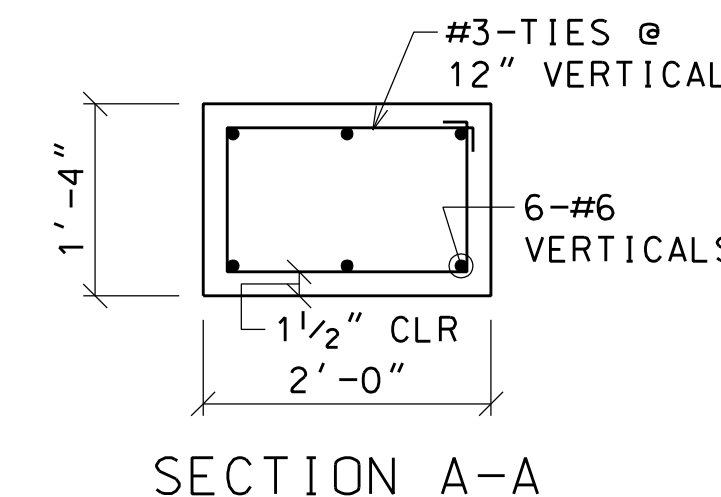
NOTES:

1. a: 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER BUT NOT LESS THAN 4% OF LEAST HORIZONTAL DIMENSION OR 3 FEET.
2. h: MEAN ROOF HEIGHT, IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ROOF ANGLES OR SLOPES < 10°.
3. PRESSURES SHOWN ARE APPLIED NORMAL (PERPENDICULAR) TO THE SURFACE.
4. PLUS SIGNS SIGNIFY PRESSURES INWARD.
5. MINUS SIGNS SIGNIFY PRESSURES ACTING OUTWARD (SUCTION).
6. PRESSURES INDICATED ARE FOR COMBINATIONS OF EXTERNAL AND INTERNAL PRESSURES.
7. WIND PRESSURES ARE BASED UPON CHAPTER 30 - PART 1 (LOW RISE BUILDINGS) ASCE 7-16.
8. PRESSURES INDICATED ARE BASED UPON WIND VELOCITIES INDICATED IN CHAPTER 26 - ASCE 7-16 AND ARE FOR STRENGTH DESIGN. MULTIPLY WIND PRESSURE SHOWN BY 0.77 FOR ALLOWABLE STRESS DESIGN PRESSURES.

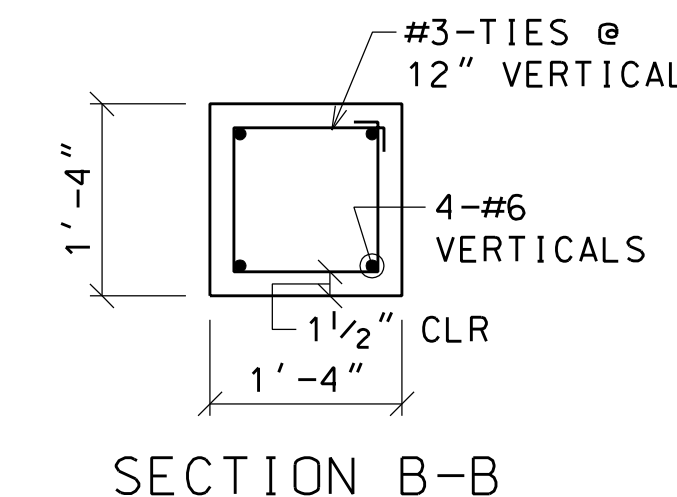


WIND PRESSURE DIAGRAM FOR COMPONENTS & CLADDING

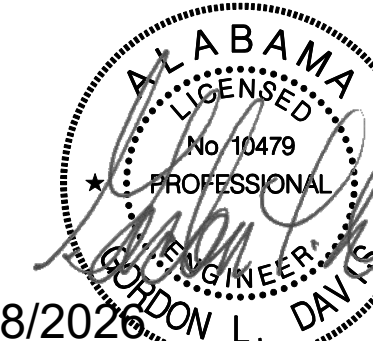
| AREA (FT ²) | COMPONENTS AND CLADDING - WIND PRESSURES | | | | | | | | | | | | | | | |
|-------------------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | ROOF | | | | | WALL | | | | | | | | | | |
| | 1 | 2E | 2N | 2R | 3E | 3R | 4 | 5 | | | | | | | | |
| 10 | + 18.6 psf | - 56.7 psf | + 18.6 psf | - 56.6 psf | + 18.6 psf | - 82.5 psf | + 18.6 psf | - 82.5 psf | + 18.6 psf | - 82.5 psf | + 18.6 psf | - 98.6 psf | + 28.0 psf | - 30.4 psf | + 28.0 psf | - 37.4 psf |
| 20 | + 16.7 psf | - 56.6 psf | + 16.7 psf | - 56.6 psf | + 16.7 psf | - 71.4 psf | + 16.7 psf | - 71.4 psf | + 16.7 psf | - 71.4 psf | + 16.7 psf | - 84.0 psf | + 26.8 psf | - 29.1 psf | + 26.8 psf | - 34.9 psf |
| 50 | + 14.3 psf | - 34.4 psf | + 14.3 psf | - 34.2 psf | + 14.3 psf | - 56.6 psf | + 14.3 psf | - 56.6 psf | + 14.3 psf | - 56.6 psf | + 14.3 psf | - 65.5 psf | + 25.2 psf | - 27.5 psf | + 25.2 psf | - 31.6 psf |
| 100 | + 12.5 psf | - 17.7 psf | + 12.5 psf | - 17.7 psf | + 12.5 psf | - 45.4 psf | + 12.5 psf | - 45.4 psf | + 12.5 psf | - 45.4 psf | + 12.5 psf | - 51.4 psf | + 23.9 psf | - 26.2 psf | + 23.9 psf | - 29.1 psf |
| 500 | + 12.5 psf | - 17.7 psf | + 12.5 psf | - 17.7 psf | + 12.5 psf | - 30.6 psf | + 12.5 psf | - 30.6 psf | + 12.5 psf | - 30.6 psf | + 12.5 psf | - 51.4 psf | + 21.0 psf | - 23.4 psf | + 21.0 psf | - 23.4 psf |



SECTION A-A

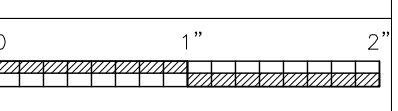
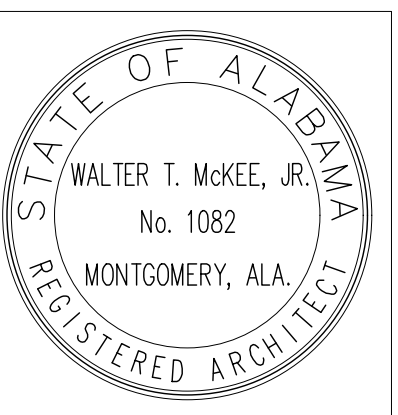


SECTION B-B



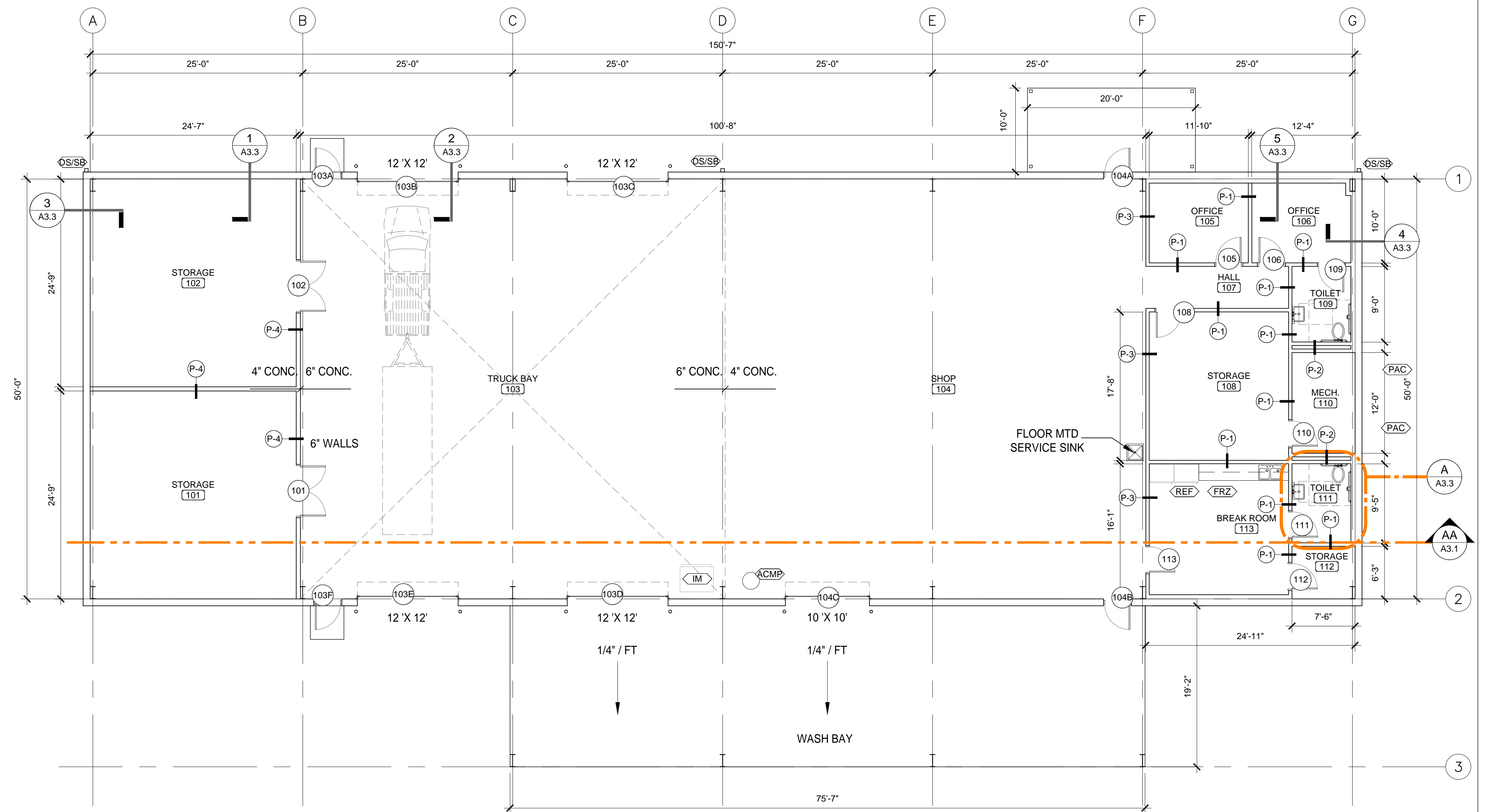
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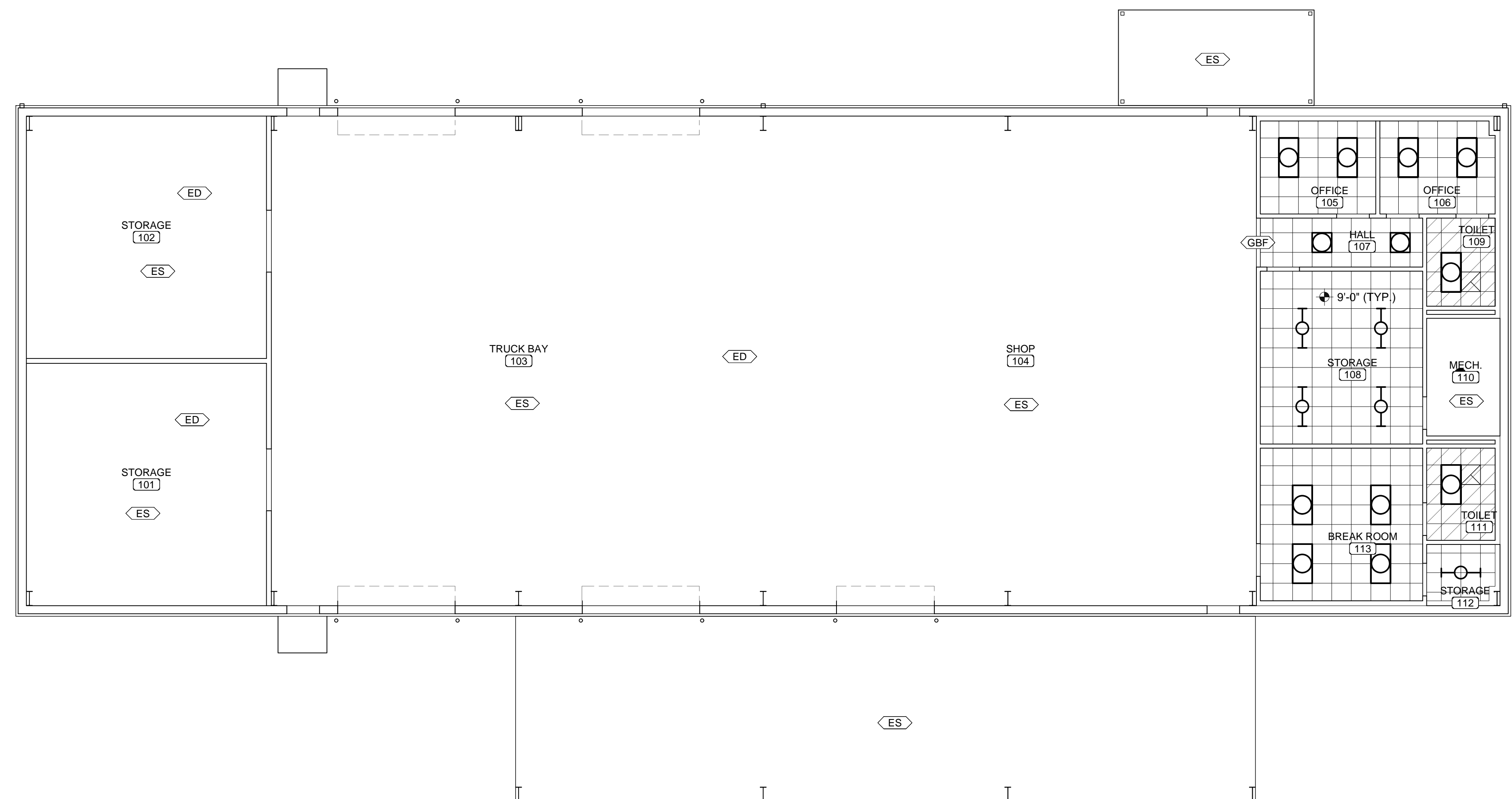
| FLOOR PLAN LEGEND | |
|-------------------|--|
| SYMBOL | DESCRIPTION |
| | SCHEDULED DOOR AND FRAME |
| | SCHEDULED WINDOW UNIT |
| | SCHEDULED ROOM NAME AND NUMBER |
| | SECTION / DETAIL SYMBOL |
| | BUILDING SECTION SYMBOL |
| | INTERIOR ELEVATION SYMBOL |
| | WALL PARTITION TYPES |
| | ELECTRIC WATER COOLER (SEE DETAIL AX.X) |
| | FIRE EXTINGUISHER CABINET (SEE DETAIL AX.X) |
| | PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK |
| | PACKAGE AIR CONDITIONING UNIT (SEE MECHANICAL) |
| | AIR HANDLING UNIT (SEE MECHANICAL) |
| | RETURN AIR (SEE MECHANICAL) |
| | REFRIGERATOR (BY OWNER) |
| | FREEZER (BY OWNER) |
| | ICE MACHINE (BY OWNER) |
| | AIR COMPRESSOR (BY OWNER) |
| | CASED OPENING |
| | CANOPY COLUMN LOCATION |
| | CANOPY COLUMN LOCATION |

| REFLECTED CEILING PLAN LEGEND | |
|-------------------------------|--|
| SYMBOL | DESCRIPTION |
| | HEIGHT ABOVE FINISHED FLOOR ELEVATION |
| | 2x2 LAY-IN ACOUSTICAL CEILING |
| | 2x2 VINYL CLAD LAY-IN CEILING WITH ALUMINUM GRIDS |
| | 2x4 RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL) |
| | 2x2 RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL) |
| | 1x4 RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL) |
| | 1x4 SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL) |
| | RECESSED ROUND LIGHT FIXTURE (SEE ELECTRICAL) |
| | HVAC SUPPLY AIR GRILLE (SEE MECHANICAL) |
| | HVAC RETURN AIR GRILLE (SEE MECHANICAL) |
| | EXHAUST FAN GRILLE (SEE MECHANICAL) |
| | EXPOSED STRUCTURE - NO PAINT |
| | GYPSTUM BOARD FURRING |
| | EXPOSED DUCTWORK - NO PAINT |

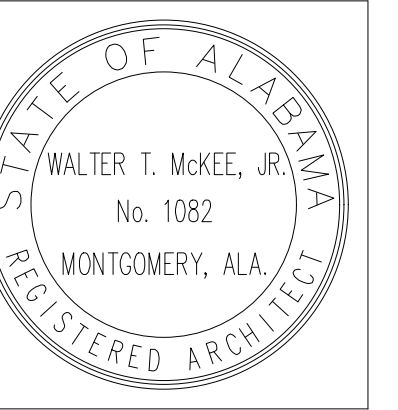


FLOOR PLAN
SCALE: 1/8" = 1'-0"

| ROOM FINISH SCHEDULE | | | | | | | | | | | |
|----------------------|------------|-------|-------|-------|-------|------|------|---------|-----------|--------|---------|
| ROOM # | ROOM NAME | FLOOR | BASE | WALLS | | | | CEILING | | HEIGHT | REMARKS |
| | | | | NORTH | SOUTH | EAST | WEST | TYPE | HEIGHT | | |
| 101 | STORAGE | SC | 4" RB | LP | LP | LP | LP | EXPOSED | VARIABLES | --- | |
| 102 | STORAGE | SC | 4" RB | LP | LP | LP | LP | EXPOSED | VARIABLES | --- | |
| 103 | TRUCK BAY | SC | 4" RB | LP | LP | open | LP | EXPOSED | VARIABLES | --- | |
| 104 | SHOP | SC | 4" RB | LP | LP | open | LP | EXPOSED | VARIABLES | --- | |
| 105 | OFFICE | SC | 4" RB | GBP | GBP | GBP | GBP | 2x2 ACT | 9'-0" | --- | |
| 106 | OFFICE | SC | 4" RB | GBP | GBP | GBP | GBP | 2x2 ACT | 9'-0" | --- | |
| 107 | HALL | SC | 4" RB | GBP | GBP | GBP | GBP | 2x2 ACT | 9'-0" | --- | |
| 108 | STORAGE | SC | 4" RB | GBP | GBP | GBP | GBP | 2x2 ACT | 9'-0" | --- | |
| 109 | TOILET | SC | 4" RB | GBP | GBP | GBP | GBP | 2x2 ACT | 9'-0" | --- | |
| 110 | MECHANICAL | SC | 4" RB | GBP | GBP | LP | GBP | EXPOSED | VARIABLES | --- | |
| 111 | TOILET | SC | 4" RB | GBP | GBP | GBP | GBP | 2x2 ACT | 9'-0" | --- | |
| 112 | STORAGE | SC | 4" RB | GBP | LP | LP | GBP | 2x2 ACT | 9'-0" | --- | |
| 113 | BREAKROOM | SC | 4" RB | GBP | GBP | GBP | GBP | 2x2 ACT | 9'-0" | --- | |



REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

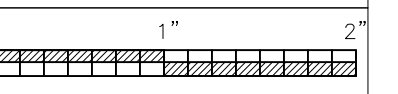


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DATE: 04/28/2026
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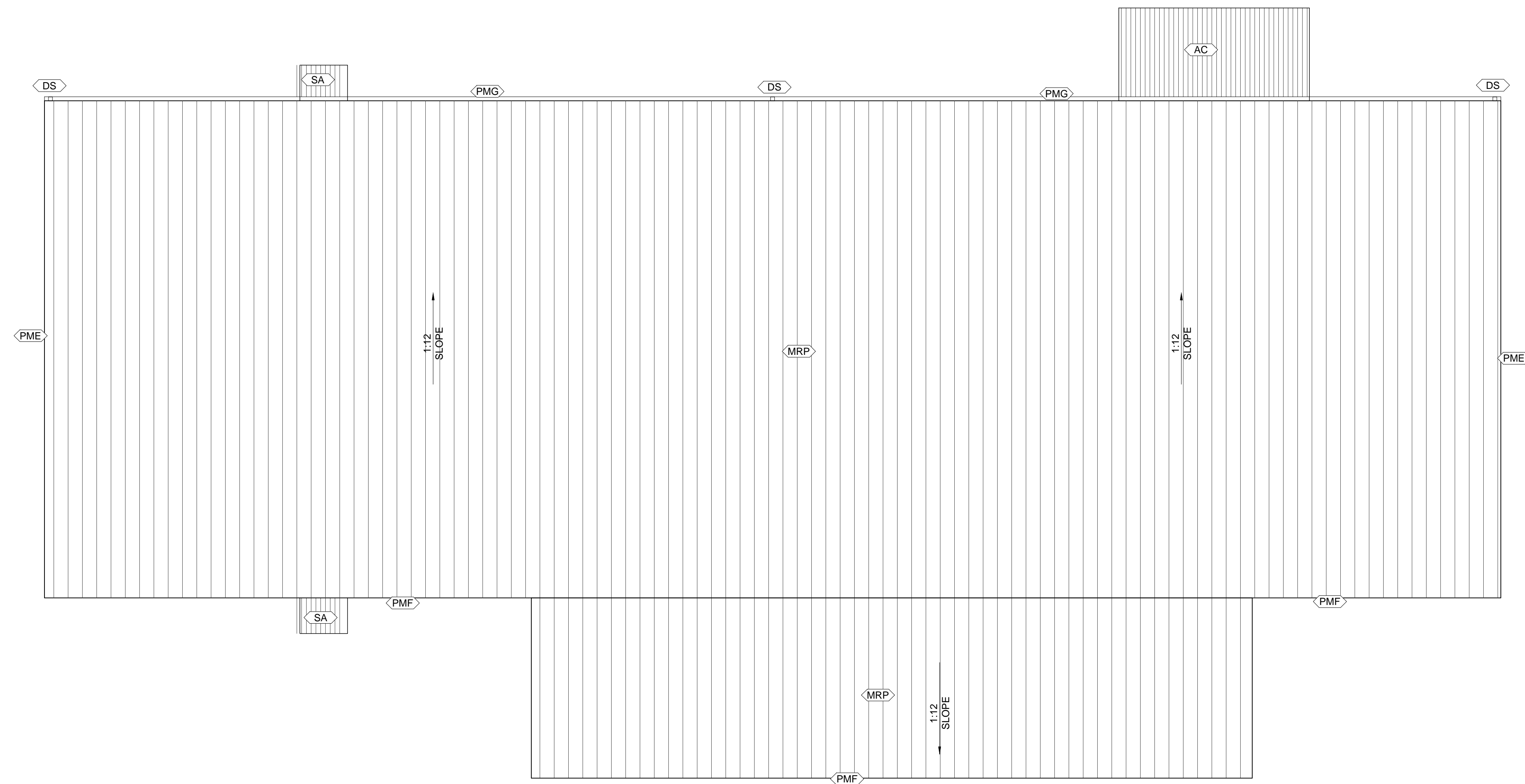
JOB NO. 25-320

SHEET NO:

A2.1

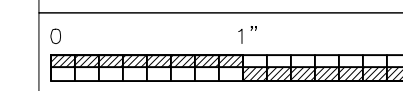
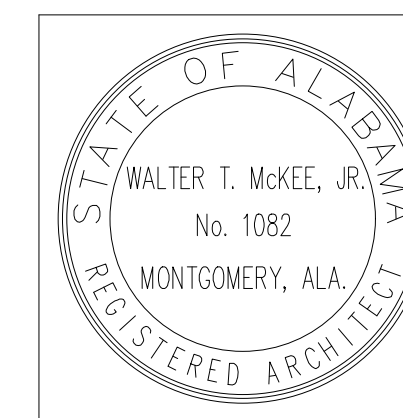


| ROOF PLAN LEGEND | |
|------------------|-----------------------------|
| SYMBOL | DESCRIPTION |
| | METAL ROOF PANELS |
| | DETAIL SYMBOL |
| | PREFINISHED METAL GUTTER |
| | PREFINISHED METAL FASCIA |
| | PREFINISHED METAL EAVE TRIM |
| | PLUMBING VENT |
| | ALUMINUM CANOPY |
| | SUSPENDED ALUMINUM AWNING |
| | PREFINISHED METAL DOWNSPOUT |



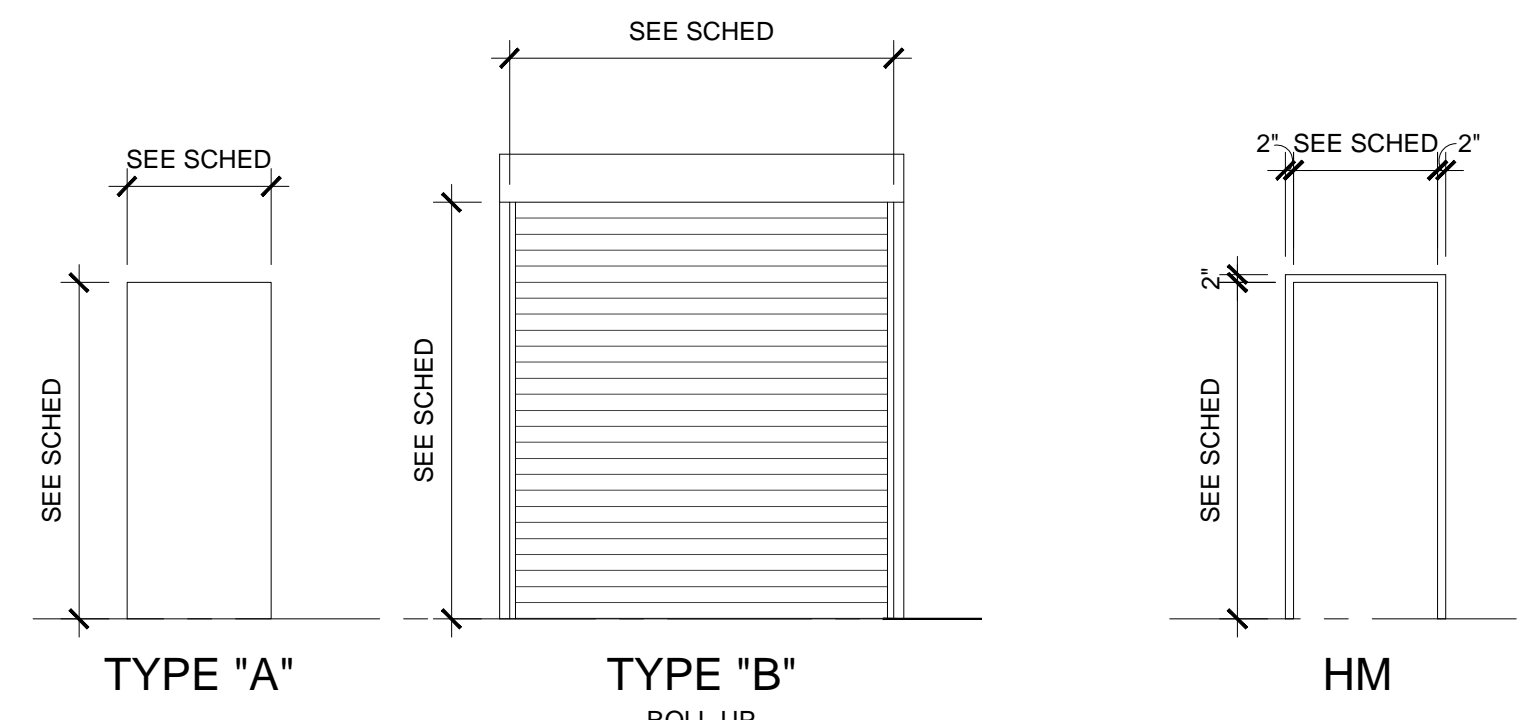
ROOF PLAN
SCALE: 1/8" = 1'-0"





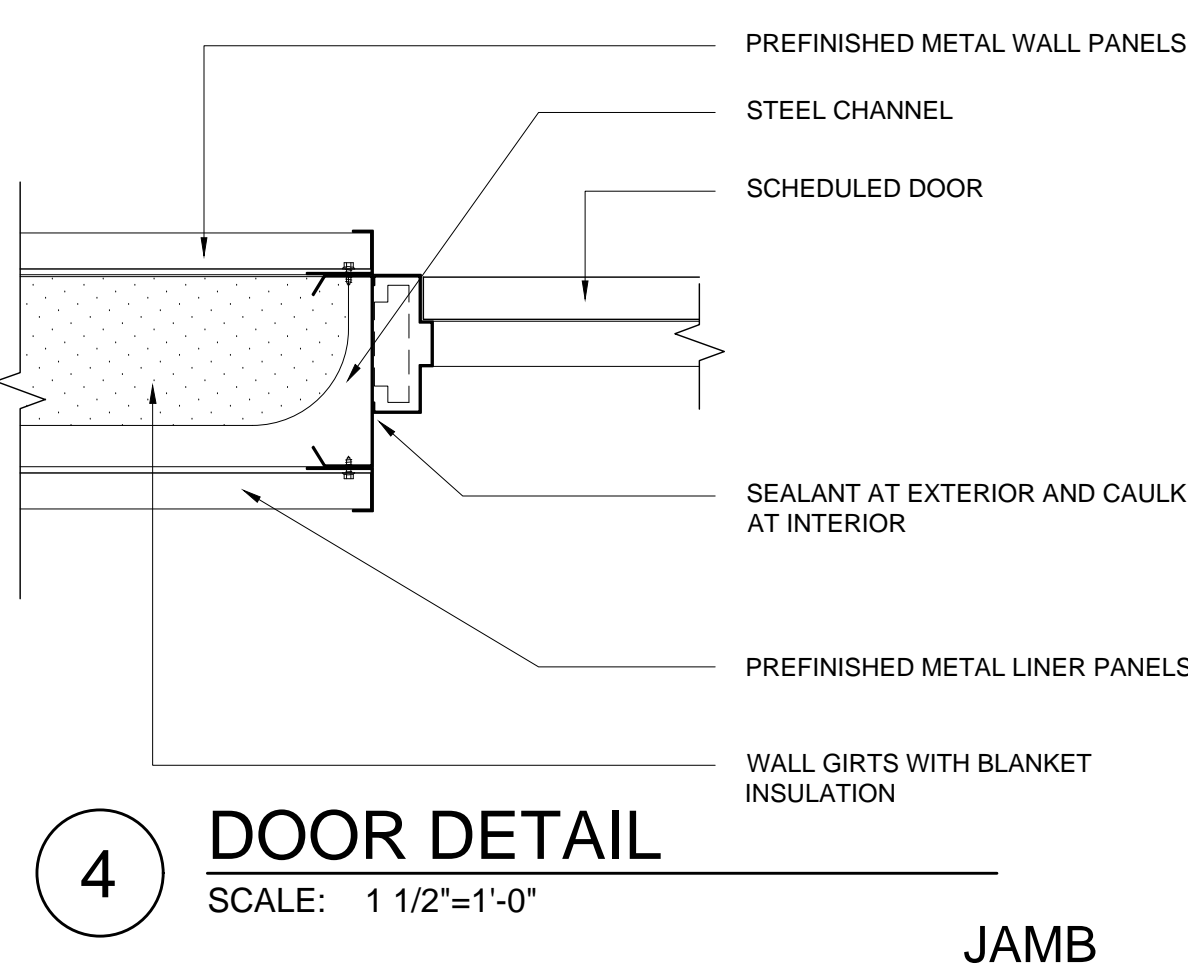
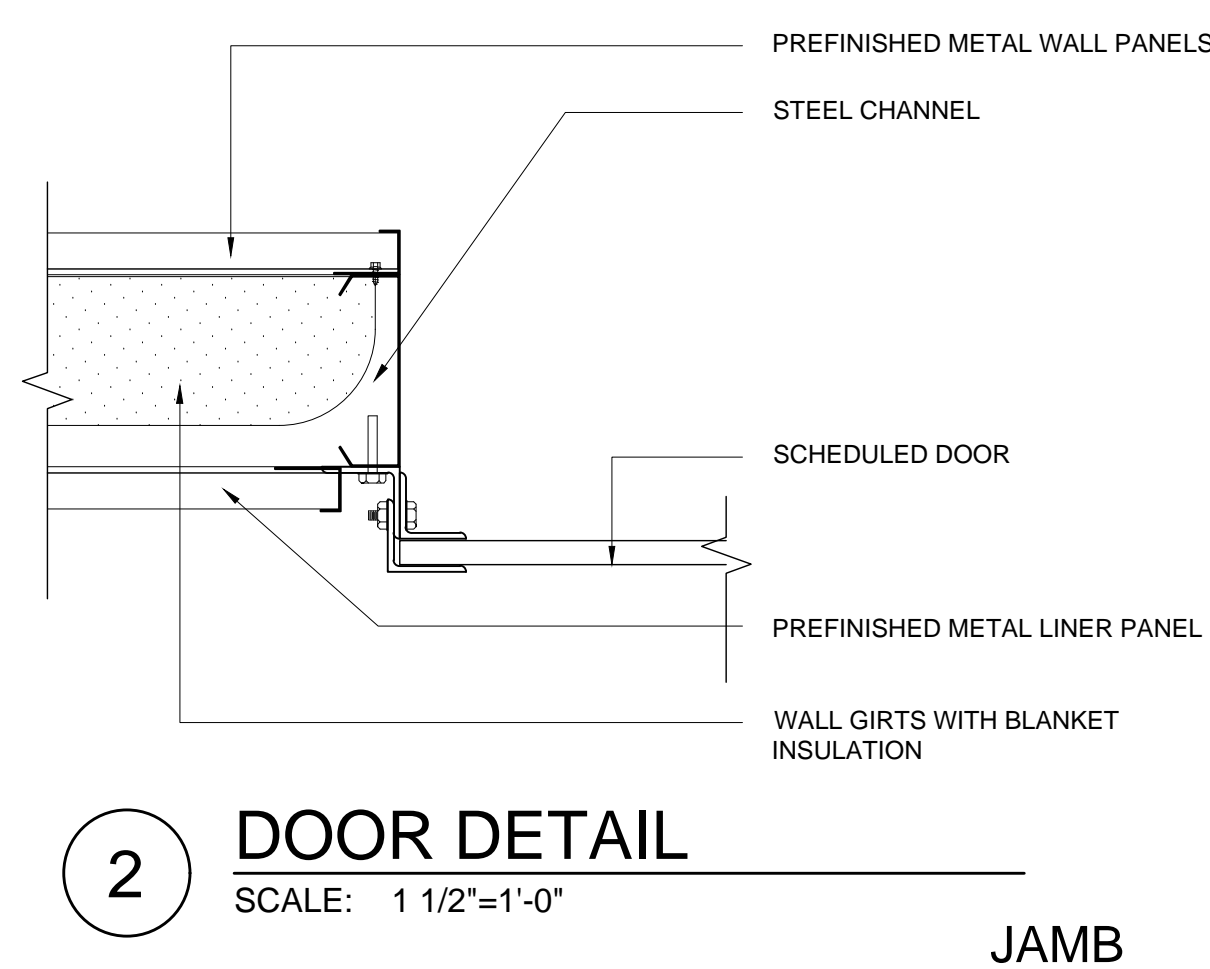
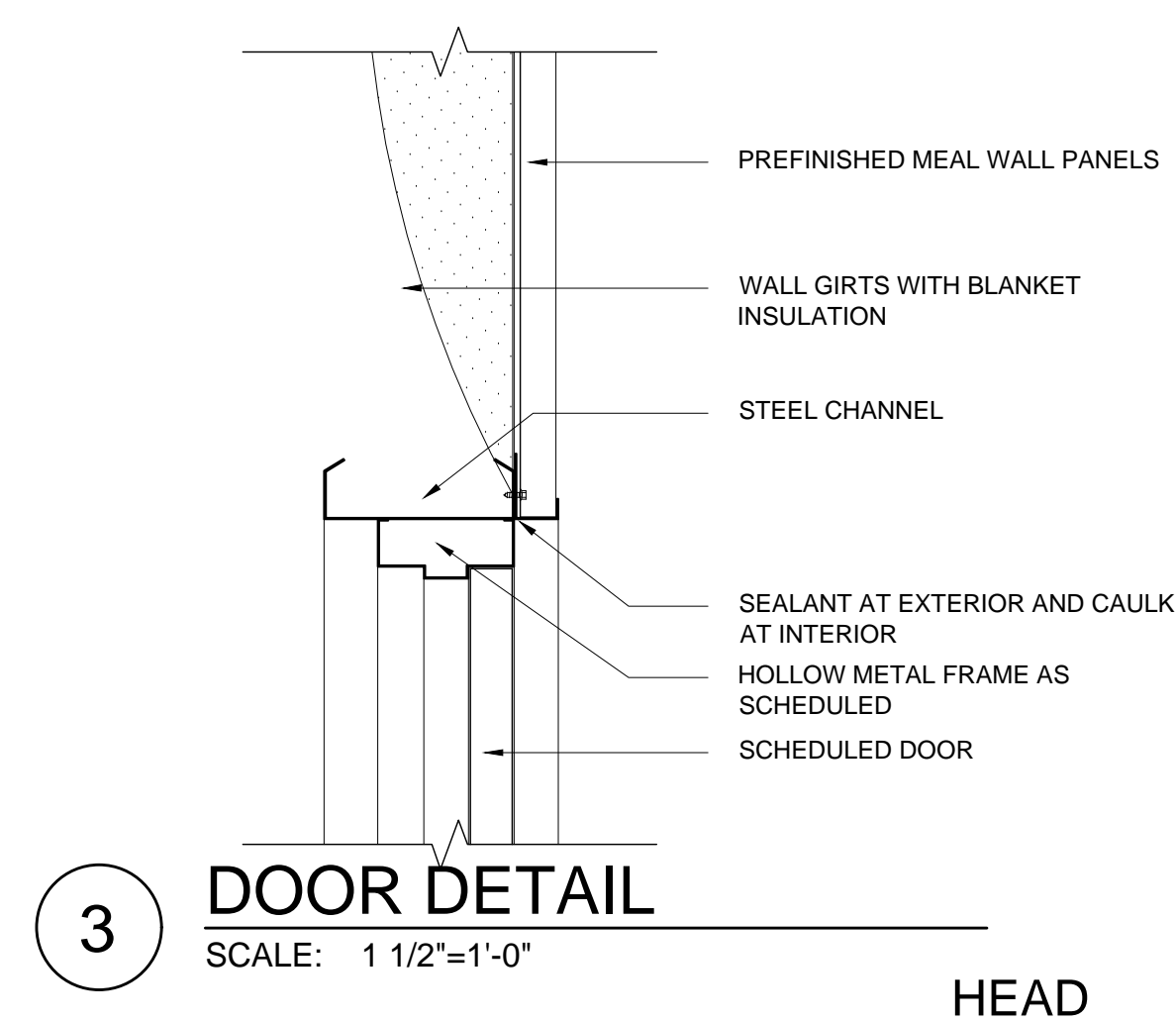
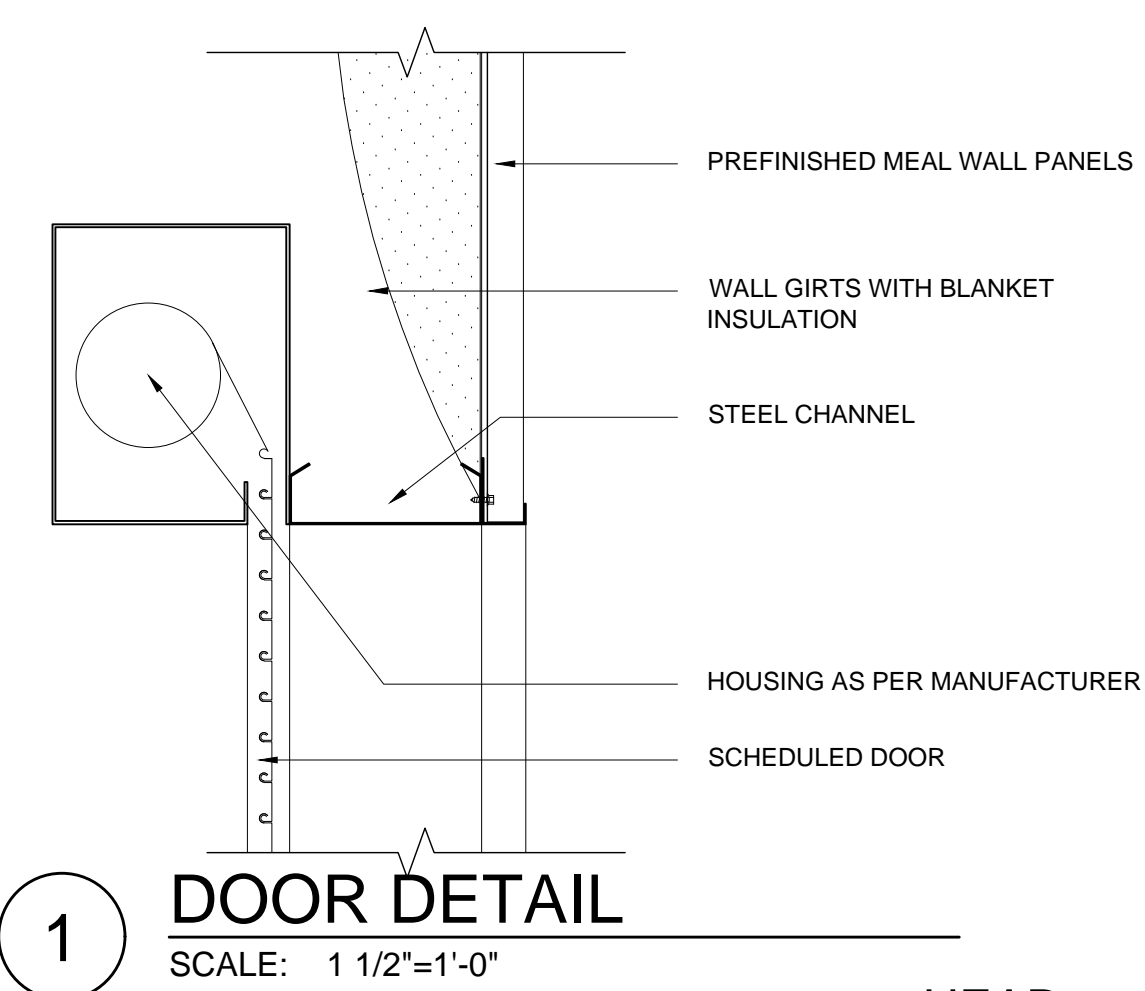
DOOR SCHEDULE

| DOOR # | WIDTH | HEIGHT | THICKNESS | MATERIALS | DOOR TYPE | DOOR FINISH | FRAME TYPE | FRAME FINISH | LABEL | DETAILS | | REMARKS |
|--------|--------|--------|-----------|-----------------------|-----------|-------------|------------|--------------|-------|---------|--------|---------|
| | | | | | | | | | | HEAD | JAMB | |
| 101 | 6'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 102 | 6'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 103A | 3'-0" | 7'-0" | 1 3/4" | HM | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 103B | 12'-0" | 12'-0" | --- | COILING DOOR | B | FACTORY | --- | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 103C | 12'-0" | 12'-0" | --- | COILING DOOR | B | FACTORY | --- | FACTORY | --- | 1/A2.2 | 2/A2.2 | --- |
| 103D | 12'-0" | 12'-0" | --- | COILING DOOR | B | FACTORY | --- | FACTORY | --- | 1/A2.2 | 2/A2.2 | --- |
| 103E | 12'-0" | 12'-0" | --- | COILING DOOR | B | FACTORY | --- | FACTORY | --- | 1/A2.2 | 2/A2.2 | --- |
| 103F | 3'-0" | 7'-0" | 1 3/4" | HM | A | FACTORY | HM | FACTORY | --- | 1/A2.2 | 2/A2.2 | --- |
| 104A | 3'-0" | 7'-0" | 1 3/4" | HM | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 104B | 3'-0" | 7'-0" | 1 3/4" | HM | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 104C | 10'-0" | 10'-0" | --- | COILING DOOR | B | FACTORY | --- | FACTORY | --- | 1/A2.2 | 2/A2.2 | --- |
| 105 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 106 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 108 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 109 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 110 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 111 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 112 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |
| 113 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM | FACTORY | --- | 3/A2.2 | 4/A2.2 | --- |



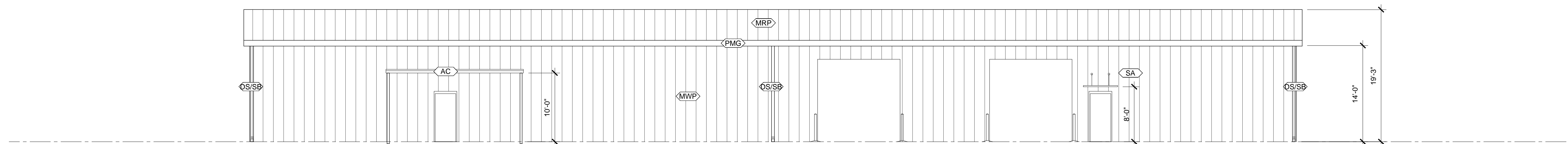
TYPICAL DOOR TYPES
SCALE: 1/4" = 1'-0"

TYPICAL FRAME TYPES
SCALE: 1/4" = 1'-0"

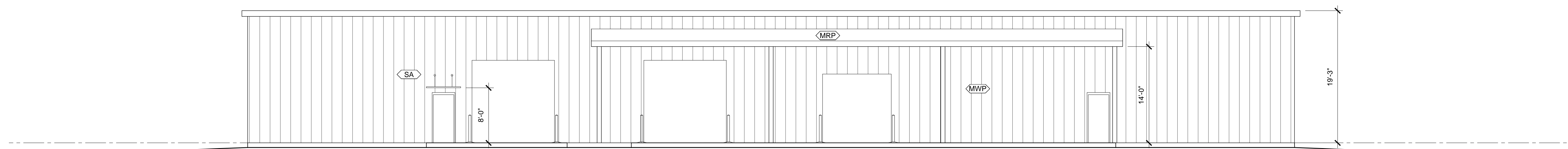




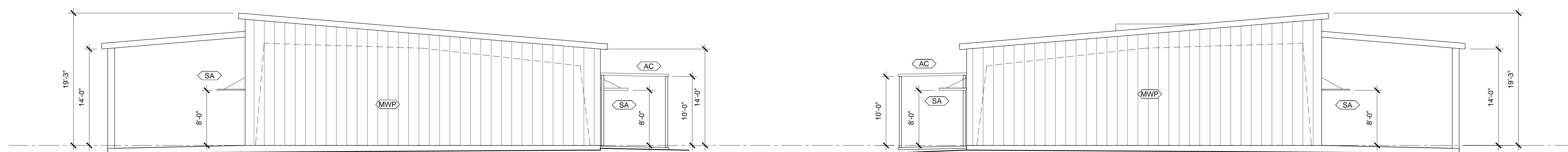
| EXTERIOR ELEVATION LEGEND | |
|---------------------------|--|
| SYMBOL | DESCRIPTION |
| | BUILDING SECTION SYMBOL |
| | SCHEDULED LOUVER TYPES |
| | PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK |
| | METAL WALL PANELS |
| | METAL ROOF PANELS |
| | PIPE BOLLARD (SEE DETAIL A9-1) |
| | PREFINISHED METAL GUTTER |
| | ALUMINUM CANOPY |
| | SUSPENDED ALUMINUM AWNING |



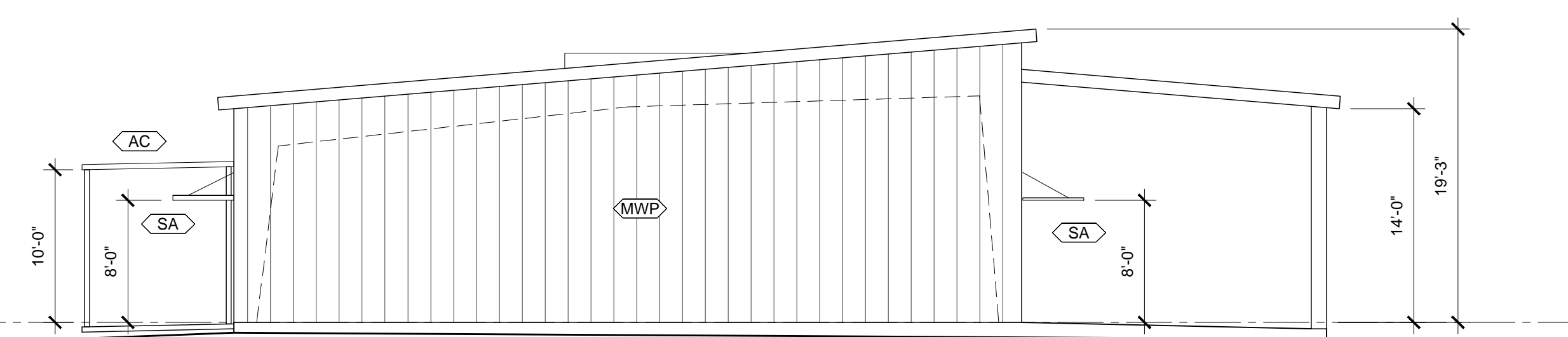
A EXTERIOR ELEVATION - NORTH
SCALE: 1/8" = 1'-0"



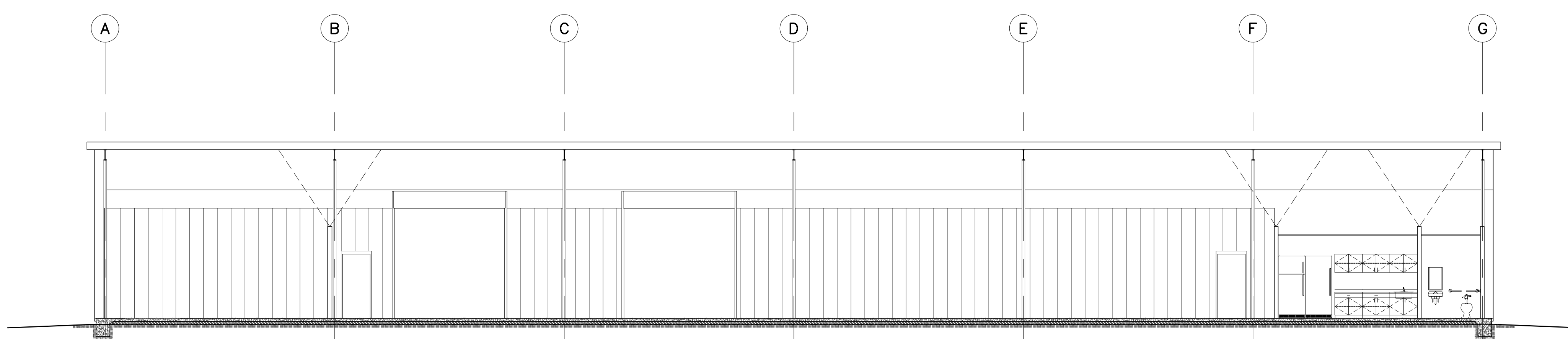
B EXTERIOR ELEVATION - SOUTH
SCALE: 1/8" = 1'-0"



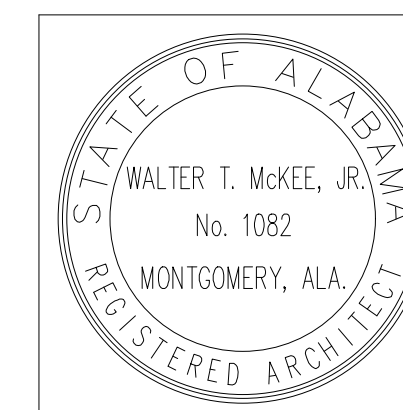
C EXTERIOR ELEVATION - EAST
SCALE: 1/8" = 1'-0"



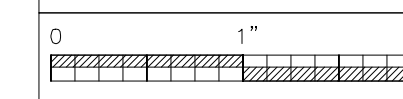
D EXTERIOR ELEVATION - WEST
SCALE: 1/8" = 1'-0"

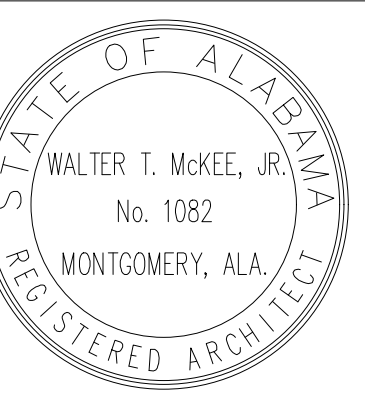


AA BUILDING SECTION
SCALE: 1/8" = 1'-0"



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| PROJ. MGR.: FGH |
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| DATE: 04/28/2026 |
| REVISIONS |



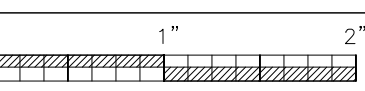


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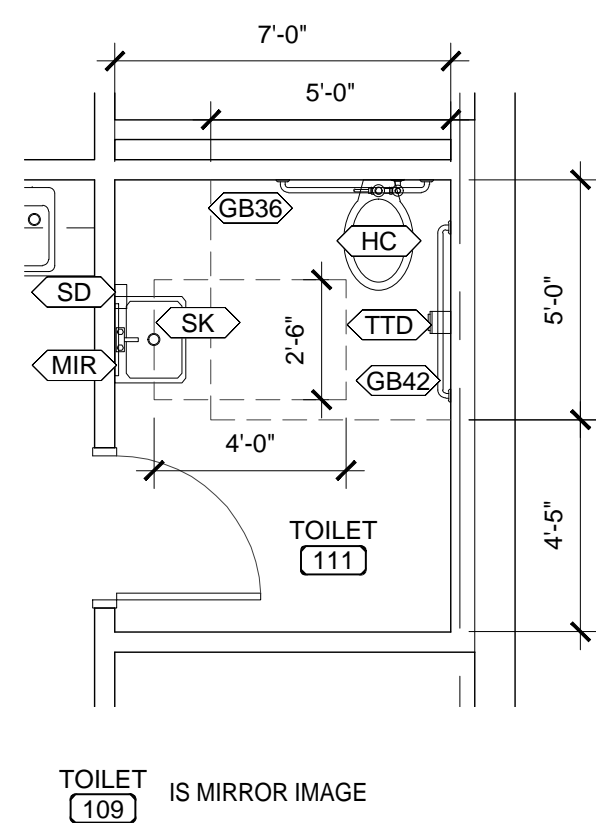
JOB NO. 25-320

SHEET NO.:

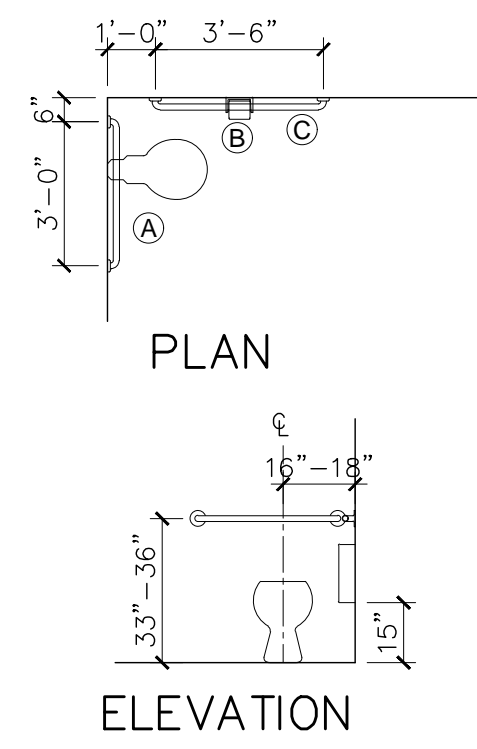
A3.3



| KEYNOTE | DESCRIPTION |
|---------|---|
| GB36 | 36" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 8" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF. (SEE SPECS) |
| GB42 | 42" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 12" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF. (SEE SPECS) |
| HC | HANDICAPPED ACCESSIBLE WATER CLOSET OR URINAL MOUNTED WITH SEAT OR LIP AT 17"-19" AFF |
| MIR | 18" X 36" MIRROR WITH SHELF (SEE SPECS) |
| PTD | PAPER TOWEL DISPENSER TO BE MOUNTED WITH OUTLET AT 48" AFF. (SEE SPECS) |
| SD | SOAP DISPENSER TO BE MOUNTED WHERE HAND CONTROLS ARE 48" AFF. (SEE SPECS) |
| TTD | TOILET TISSUE DISPENSER TO BE MOUNTED 8" OC IN FRONT OF TOILET AND OUTLET OF DISPENSER MUST BE BETWEEN 15" & 48" AFF. (SEE SPECS) |
| SK | HANDICAPPED ACCESSIBLE SINK |

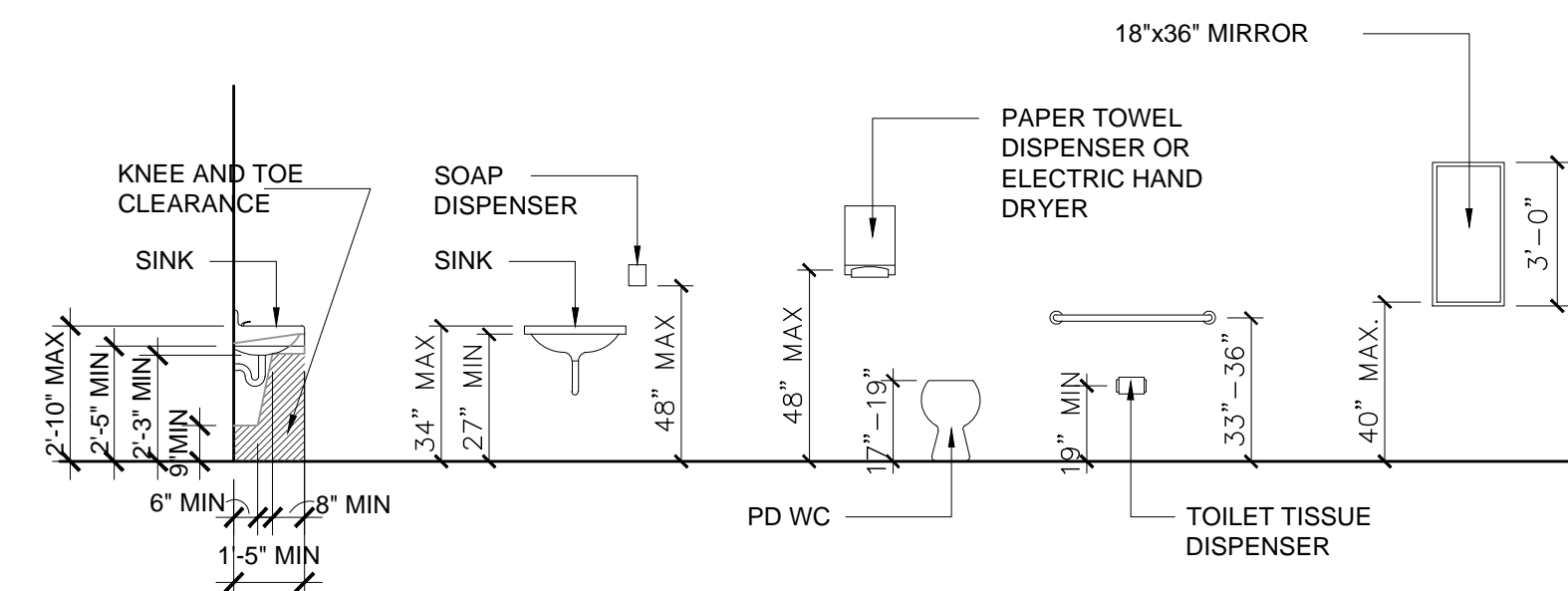


A HANDICAP TOILET ENLARGED PLAN
SCALE: 1/4"=1'-0"

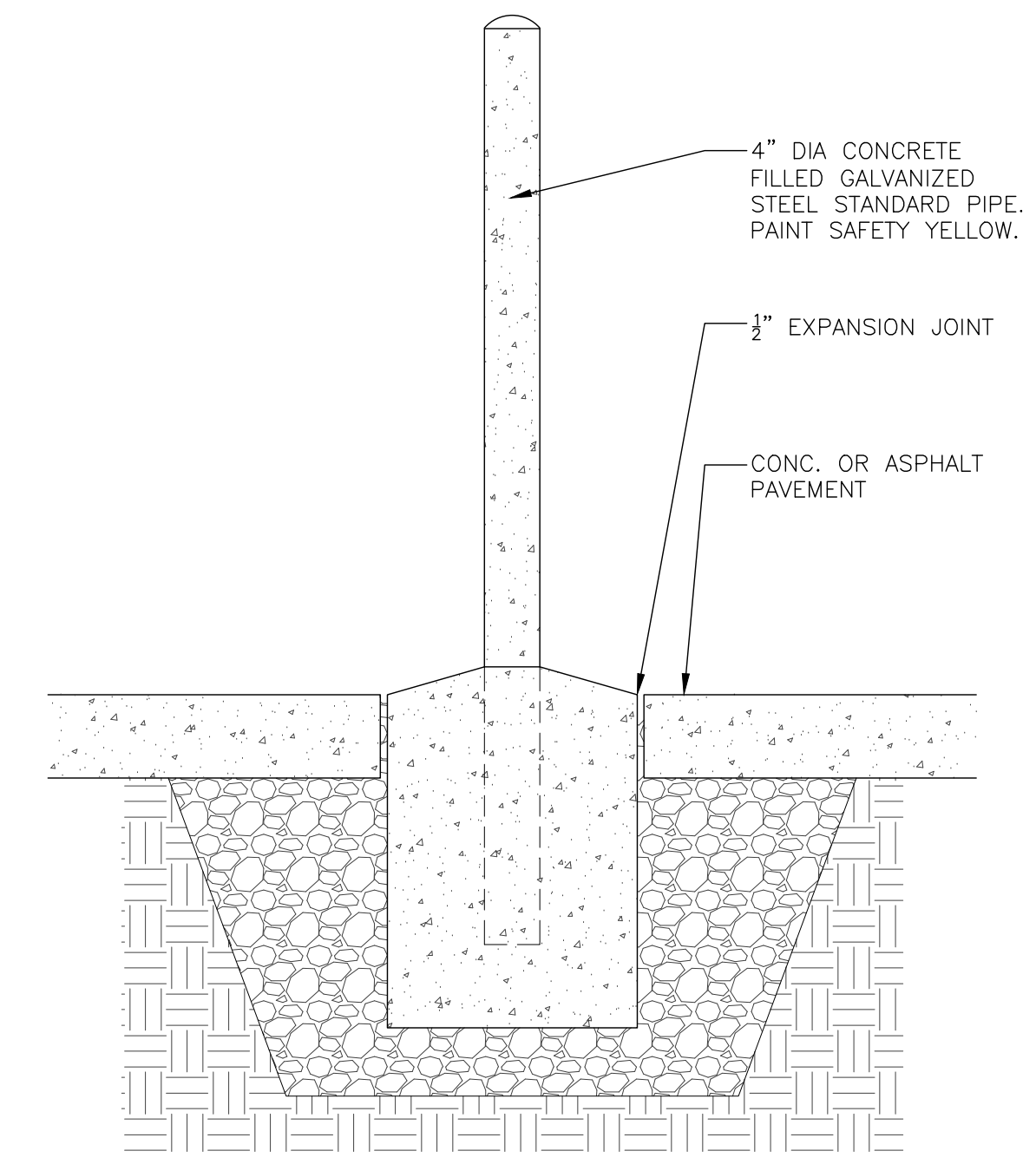


B HANDICAP TOILET - DETAILS
SCALE: 1/4"=1'-0"

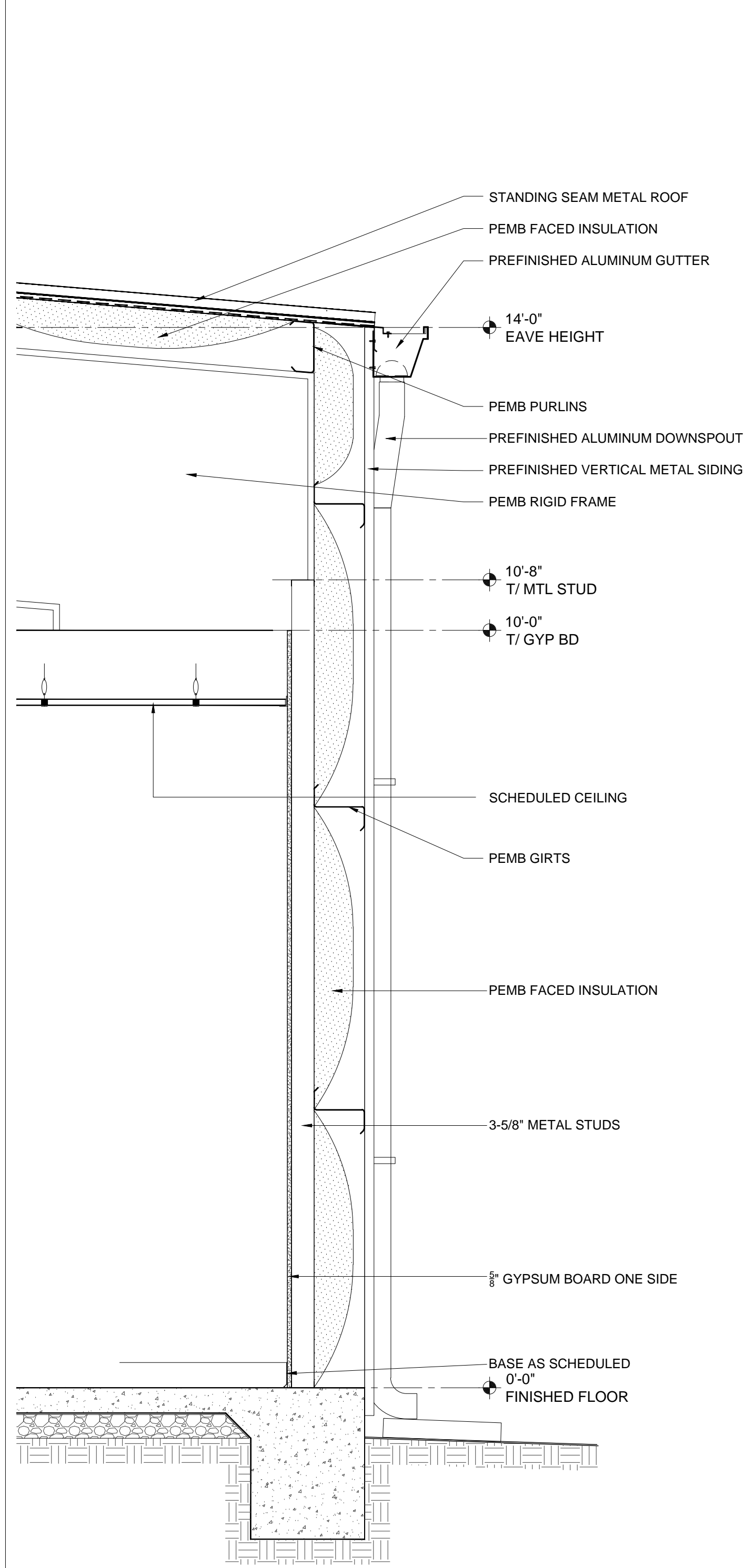
- KEY NOTES**
- (A) HORIZONTAL REAR WALL GRAB BAR SHALL BE 36" LONG MINIMUM, LOCATED 6" MAXIMUM FROM SIDE WALL.
 - (B) TOILET PAPER DISPENSER SHALL BE INSTALLED BELOW THE HORIZONTAL GRAB BAR 36" MAXIMUM FROM WALL TO OUTERMOST EDGE. DISPENSER OUTLET TO BE LOCATED 15" MINIMUM ABOVE FLOOR WITH 2" MINIMUM CLEAR BETWEEN TOP OF DISPENSER AND HORIZONTAL GRAB BAR.
 - (C) A HORIZONTAL SIDE WALL GRAB BAR 42" LONG MINIMUM, LOCATED 12" MAX. FROM REAR WALL AND EXTENDING 54" MINIMUM FROM REAR WALL.



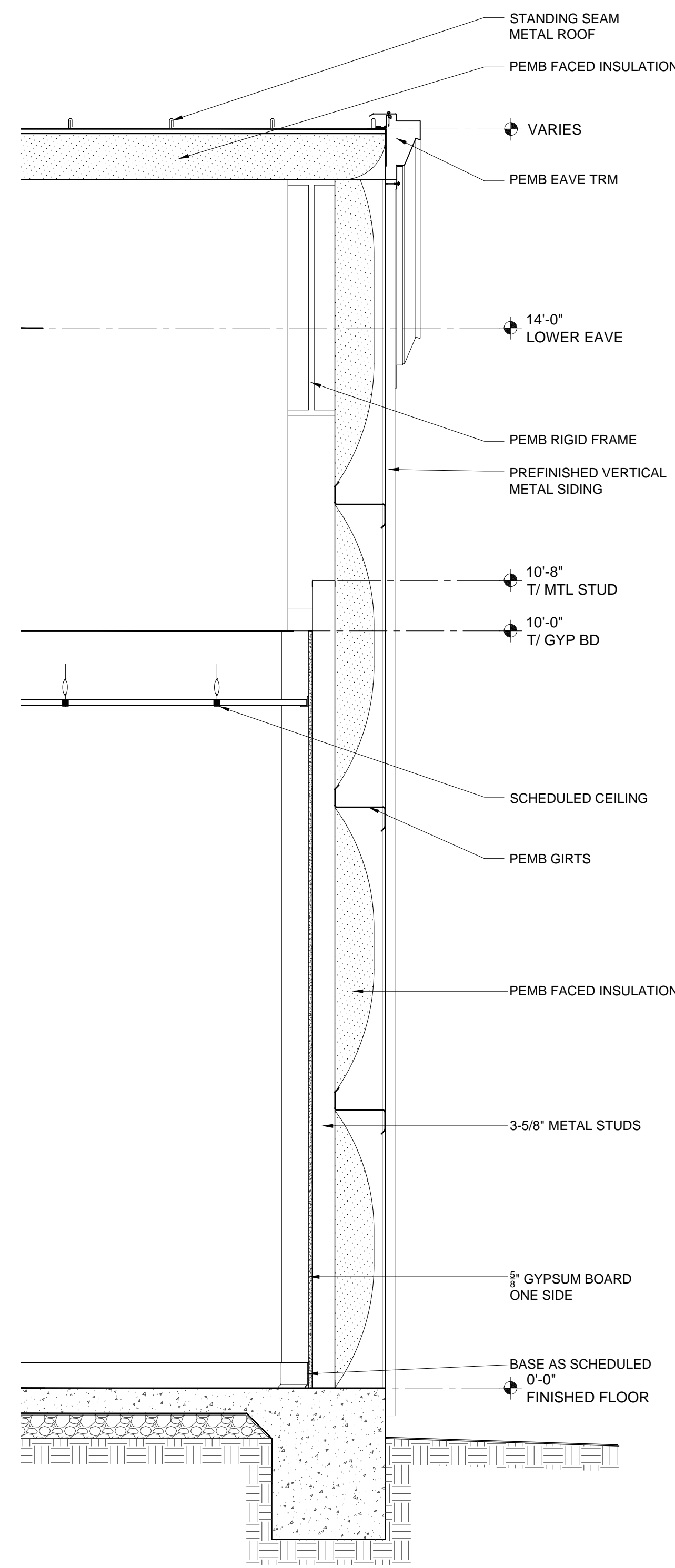
TYPICAL MOUNTING HEIGHTS
SCALE: 1/4"=1'-0"



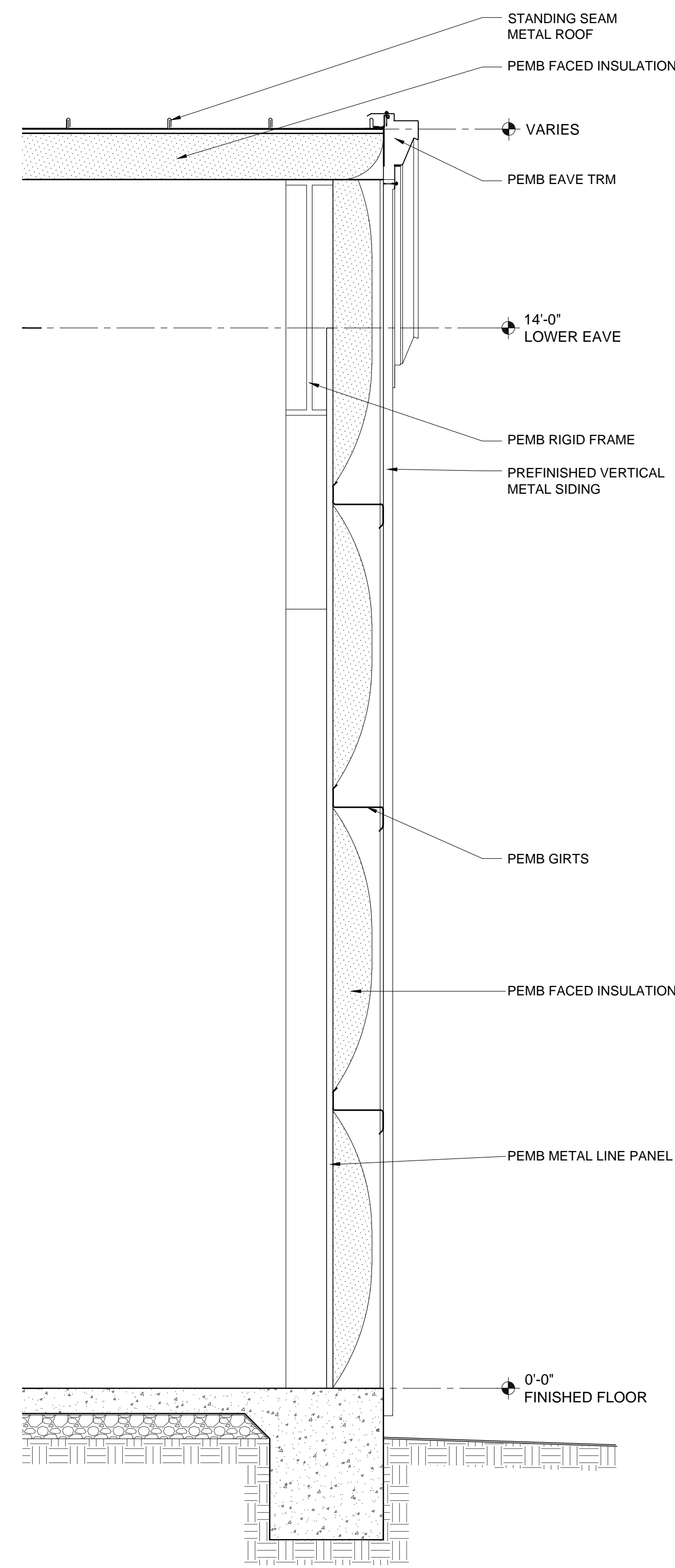
C PIPE BOLLARD DETAIL
SCALE: 1"=1'-0"



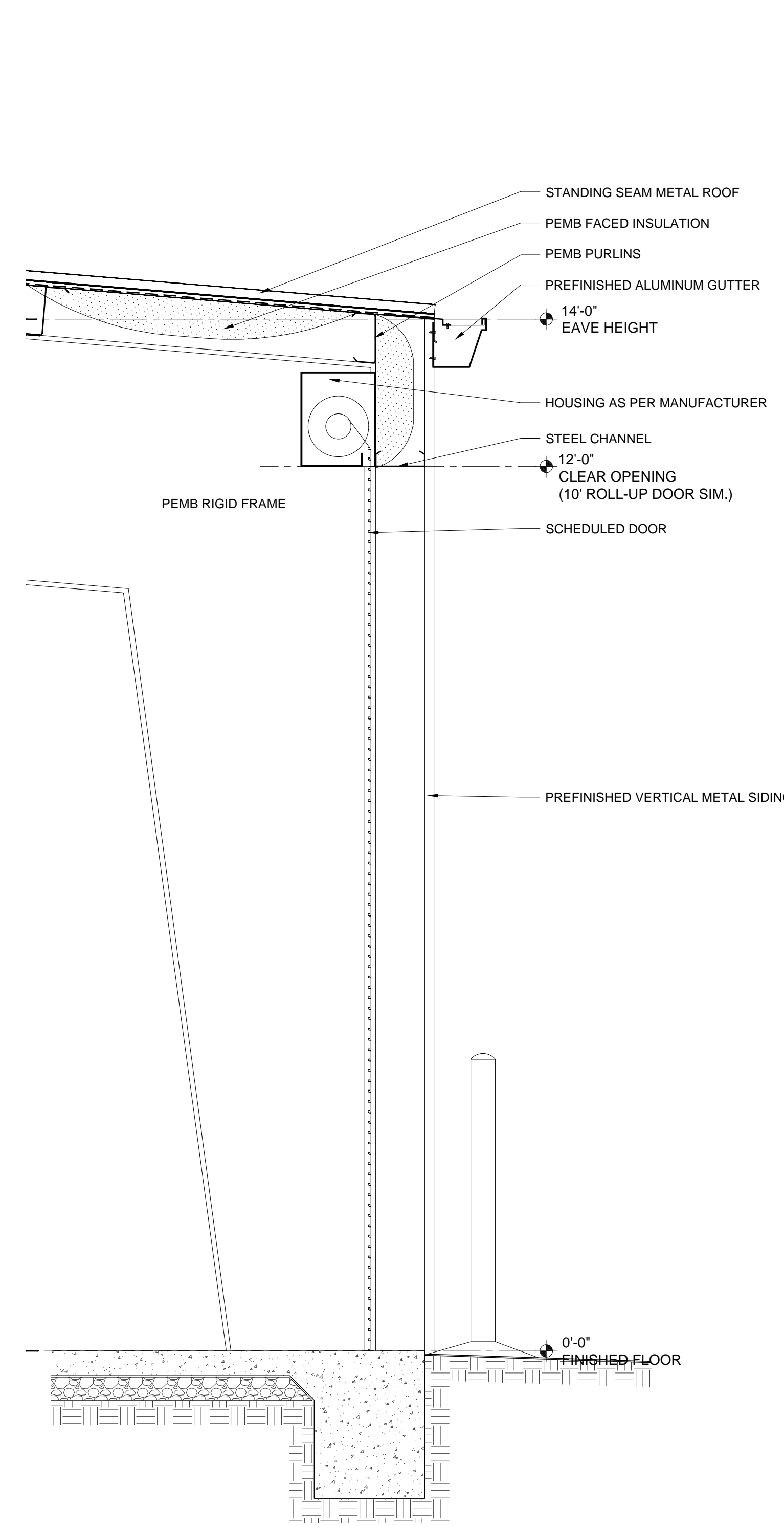
5 WALL SECTION
SCALE: 3/4"=1'-0"



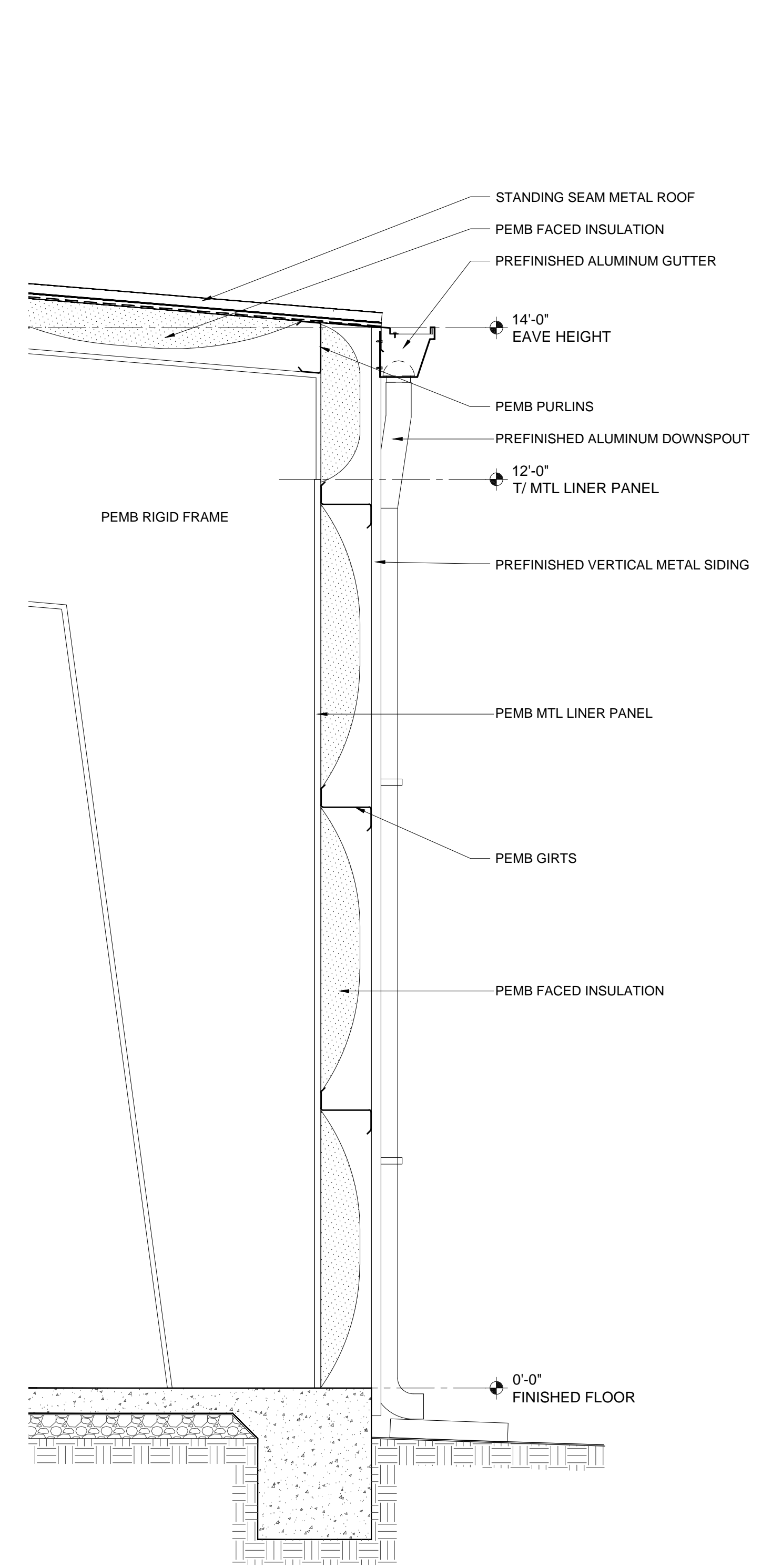
4 WALL SECTION
SCALE: 3/4"=1'-0"



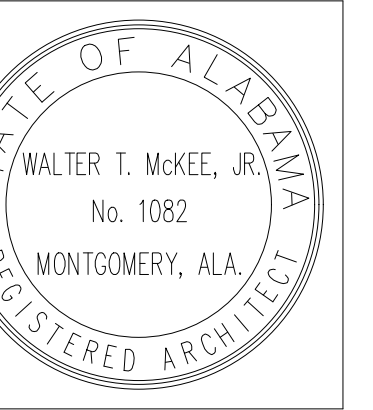
3 WALL SECTION
SCALE: 3/4"=1'-0"



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



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



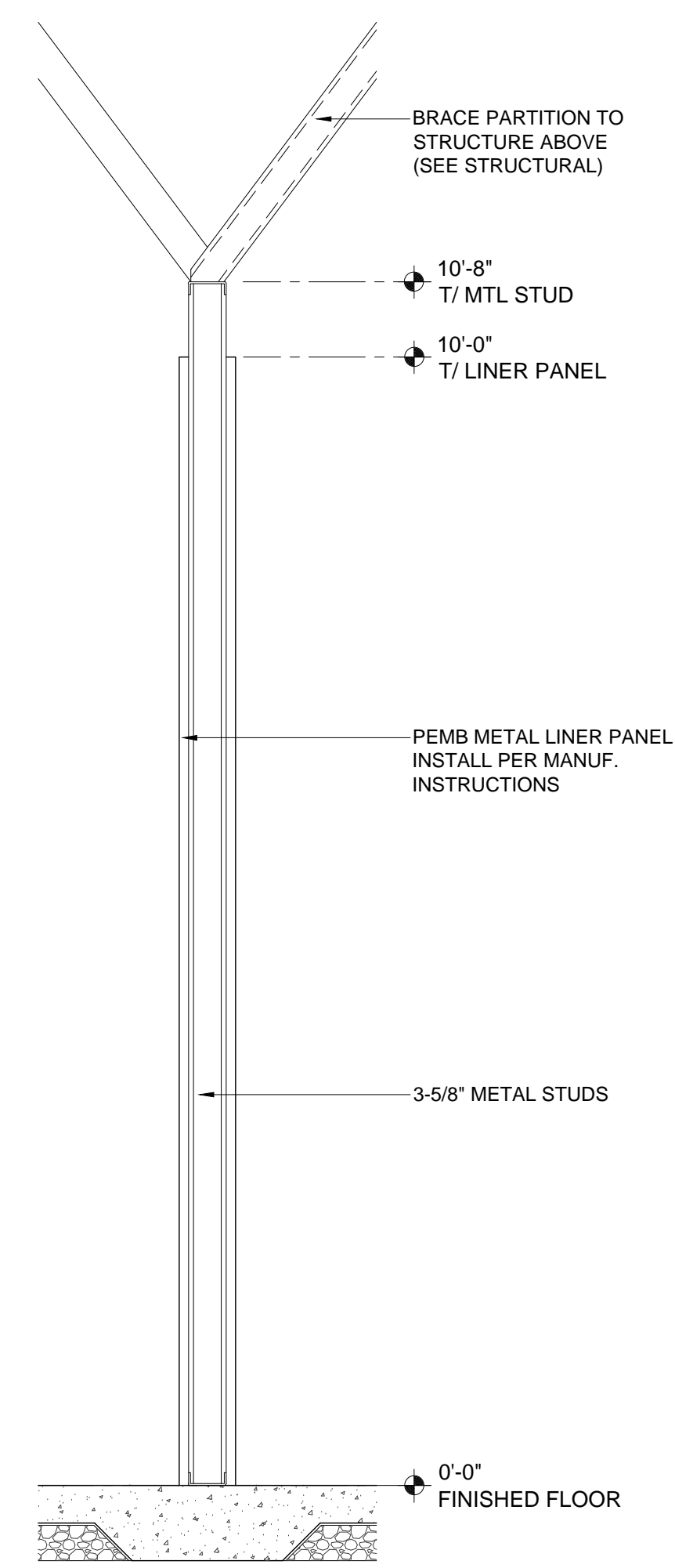
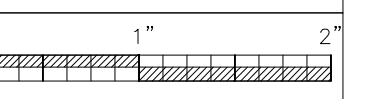
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| PROJ. MGR.: FGH |
| DRAWN: - |
| DATE: 04/28/2026 |
| REVISIONS |

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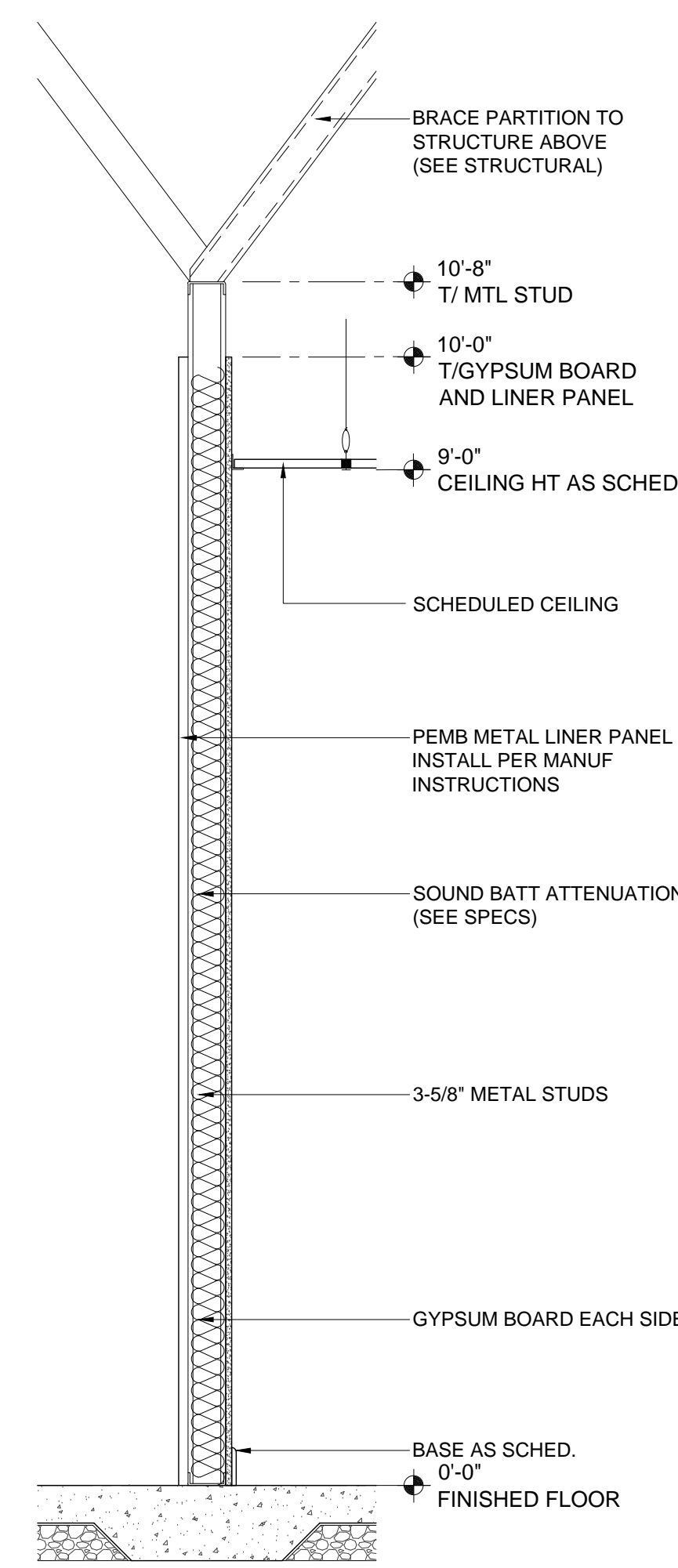
JOB NO. 25-320

SHEET NO:

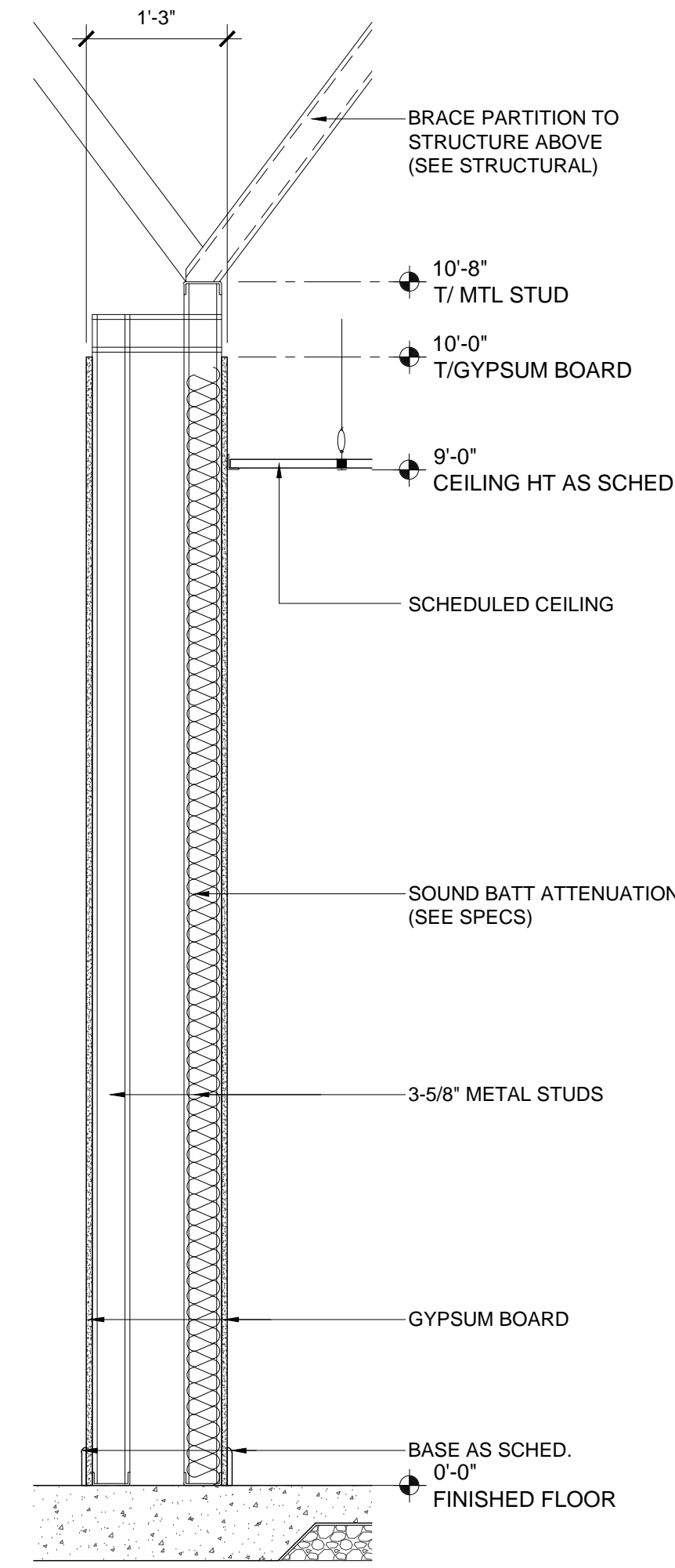
A3.4



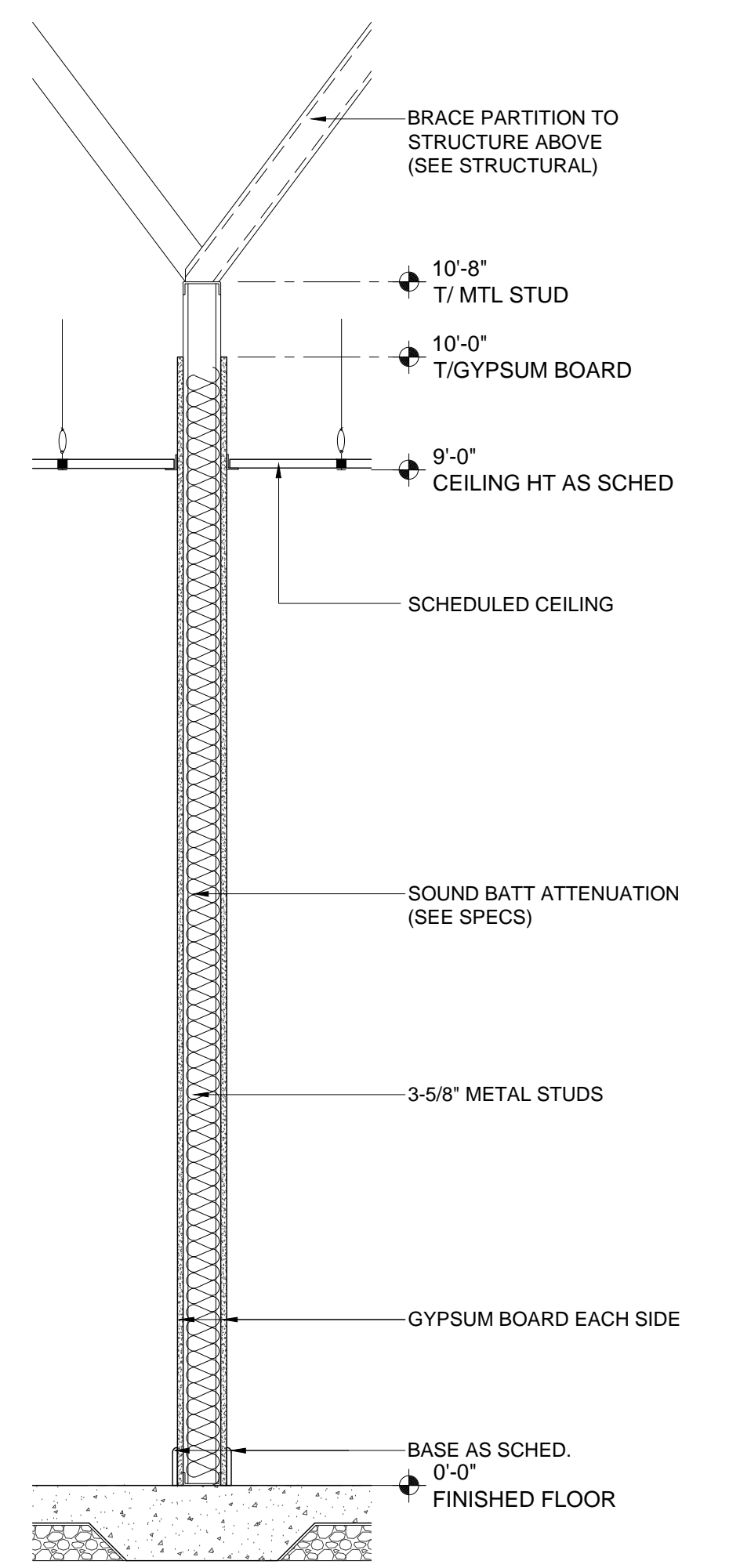
P4 PARTITION TYPES
SCALE: 3/4"=1'-0"



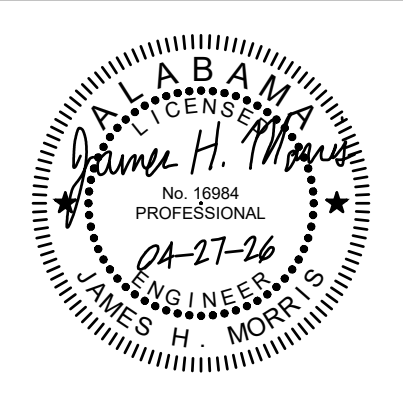
P3 PARTITION TYPES
SCALE: 3/4"=1'-0"



P2 PARTITION TYPES
SCALE: 3/4"=1'-0"



P1 PARTITION TYPES
SCALE: 3/4"=1'-0"

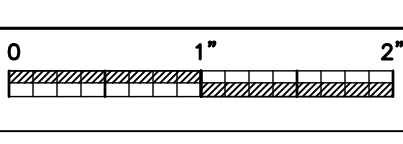


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|-------------|------------|
| PROJ. MGR.: | FGH |
| DRAWN: | BMP |
| DATE: | 04/27/2026 |
| REVISIONS: | |

JOB NO. 25-320

SHEET NO:

P1.1



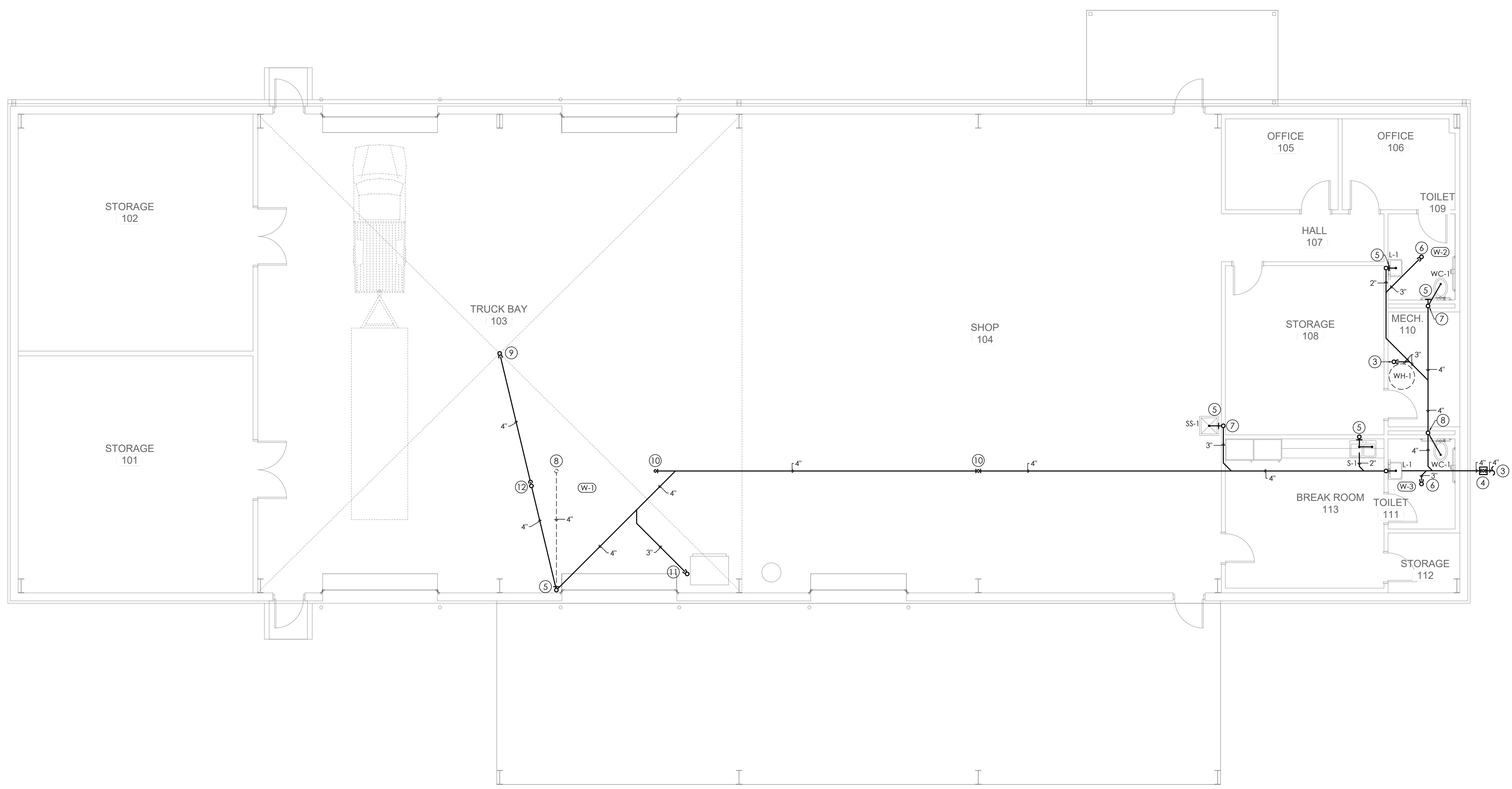
VENTS THROUGH ROOF MUST BE LOCATED MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE WITH MECHANICAL CONTRACTOR AND WITH ROOFING CONTRACTOR. 3'-0" MINIMUM CAST IRON. PROVIDE SUPPORT AT ELBOW BELOW V.T.R.

PLUMBER SHALL COORDINATE WITH GENERAL CONTRACTOR ALL OPENINGS REQUIRED FOR PLUMBING SYSTEMS TO EXTEND FLOOR TO ROOF.

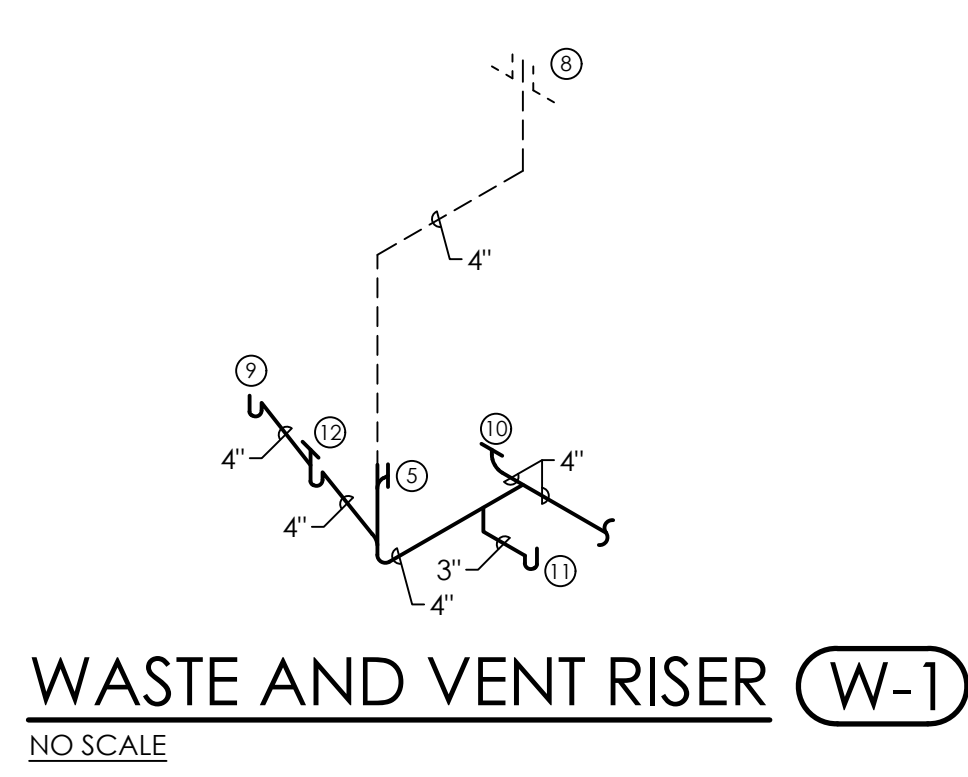
SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

CONDENSATE PIPING TO BE TYPE "L" HARD COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL CONDENSATE PIPING.

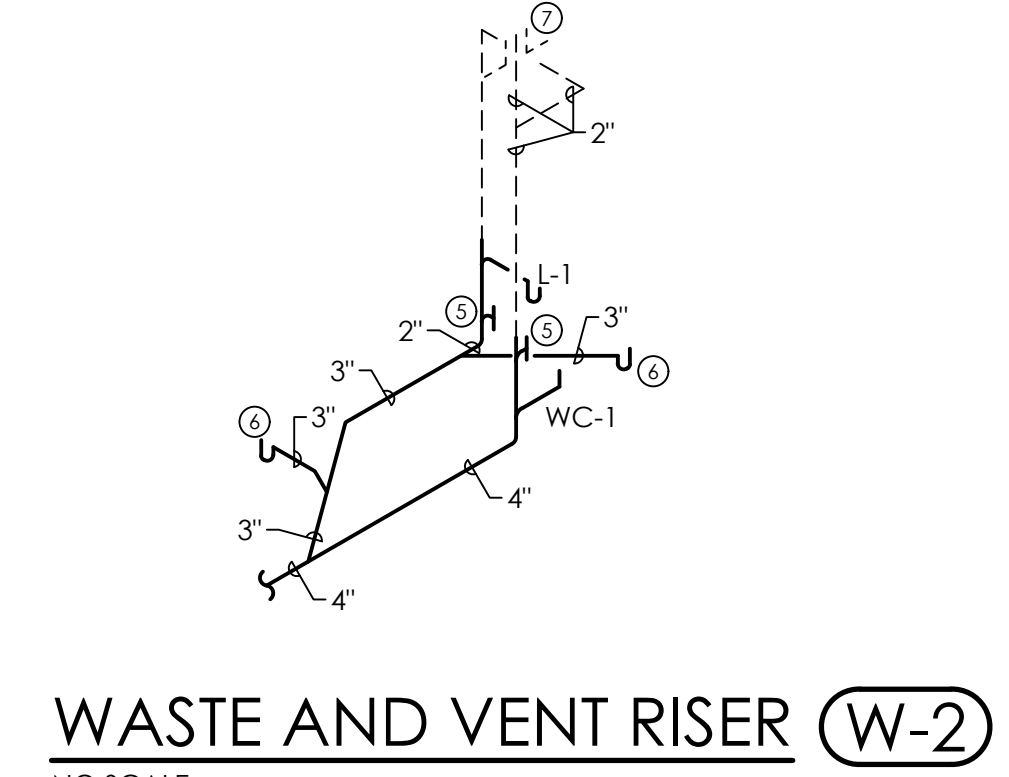
- NOTE LEGEND: (THIS SHEET ONLY)
- MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
 - ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
 - SEE SITE UTILITY PLAN FOR CONTINUATION.
 - C.O.T.G. (SET IN 18"X18"X6" CONCRETE PAD WITH TOOLED EDGES. PROVIDE BRASS PLUG.) PROVIDE COVER AND FRAME.
 - W.C.O.
 - 3" FLOOR DRAIN. (PROVIDE TRAP GUARD.)
 - 2" V.T.R. (3'-0" MIN. CAST IRON)(PROVIDE HANGER AT ELBOW BELOW V.T.R.)
 - 4" V.T.R. (3'-0" MIN. CAST IRON)(PROVIDE HANGER AT ELBOW BELOW V.T.R.)
 - 4" FLOOR DRAIN. (PROVIDE WITH HINGED GRATE AND REMOVABLE SEDIMENT BRACKET)(PROVIDE TRAP GUARD.)
 - F.C.O. (PROVIDE FRAME AND GRATE)
 - 3" F.D. (PROVIDE TRAP PRIMER)
 - RUNNING TRAP WITH F.C.O.



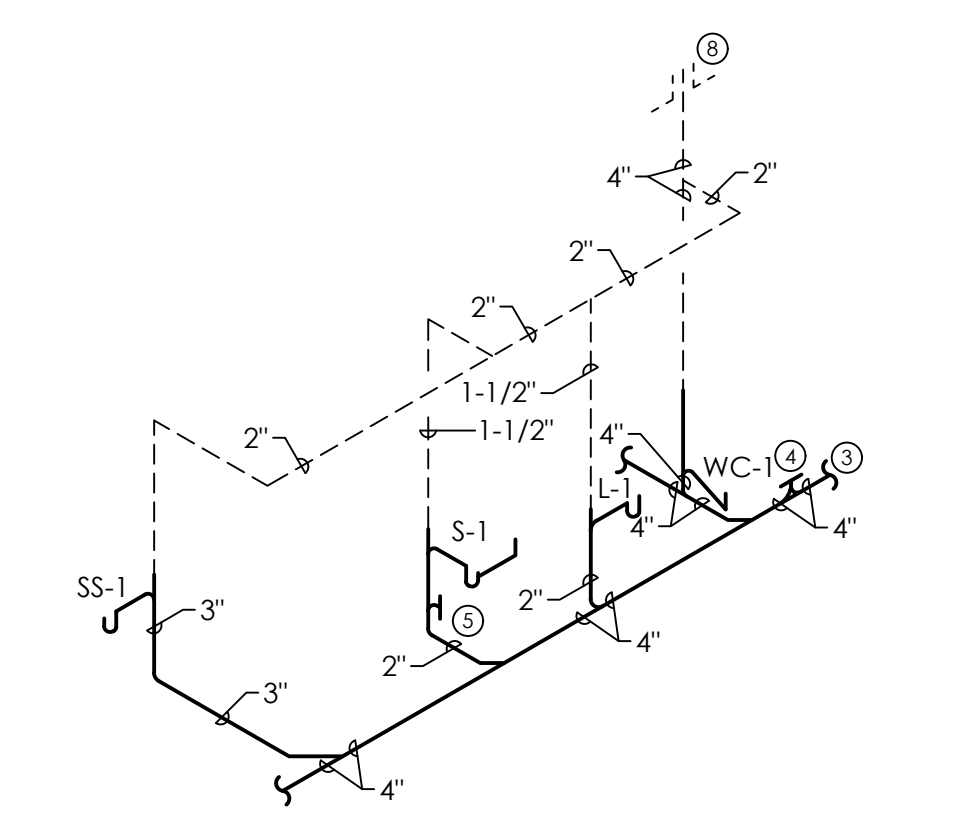
WASTE AND VENT FLOOR PLAN
SCALE: 3/16"=1'-0"



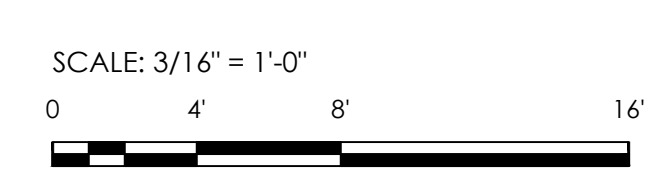
WASTE AND VENT RISER (W-1)
NO SCALE



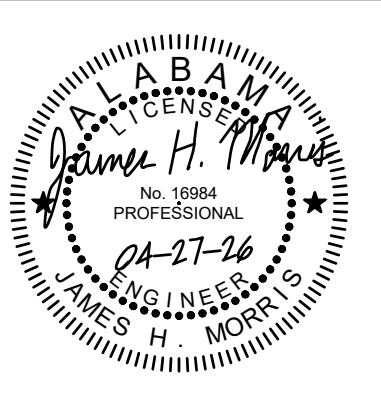
WASTE AND VENT RISER (W-2)
NO SCALE



WASTE AND VENT RISER (W-3)
NO SCALE



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www.jmorriseng.com PROJECT NO: 26-046

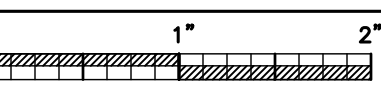


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| DATE: | 04/27/2026 |
| REVISIONS: | |

JOB NO. 25-320

SHEET NO:

P2.1



ANY EXPOSED (AREAS WITHOUT CEILINGS) WATER PIPING TO BE INSULATED AND LABELED PER SPECIFICATION. PROVIDE ALUMINUM JACKET AND LABELS ON ALL EXPOSED LINES.

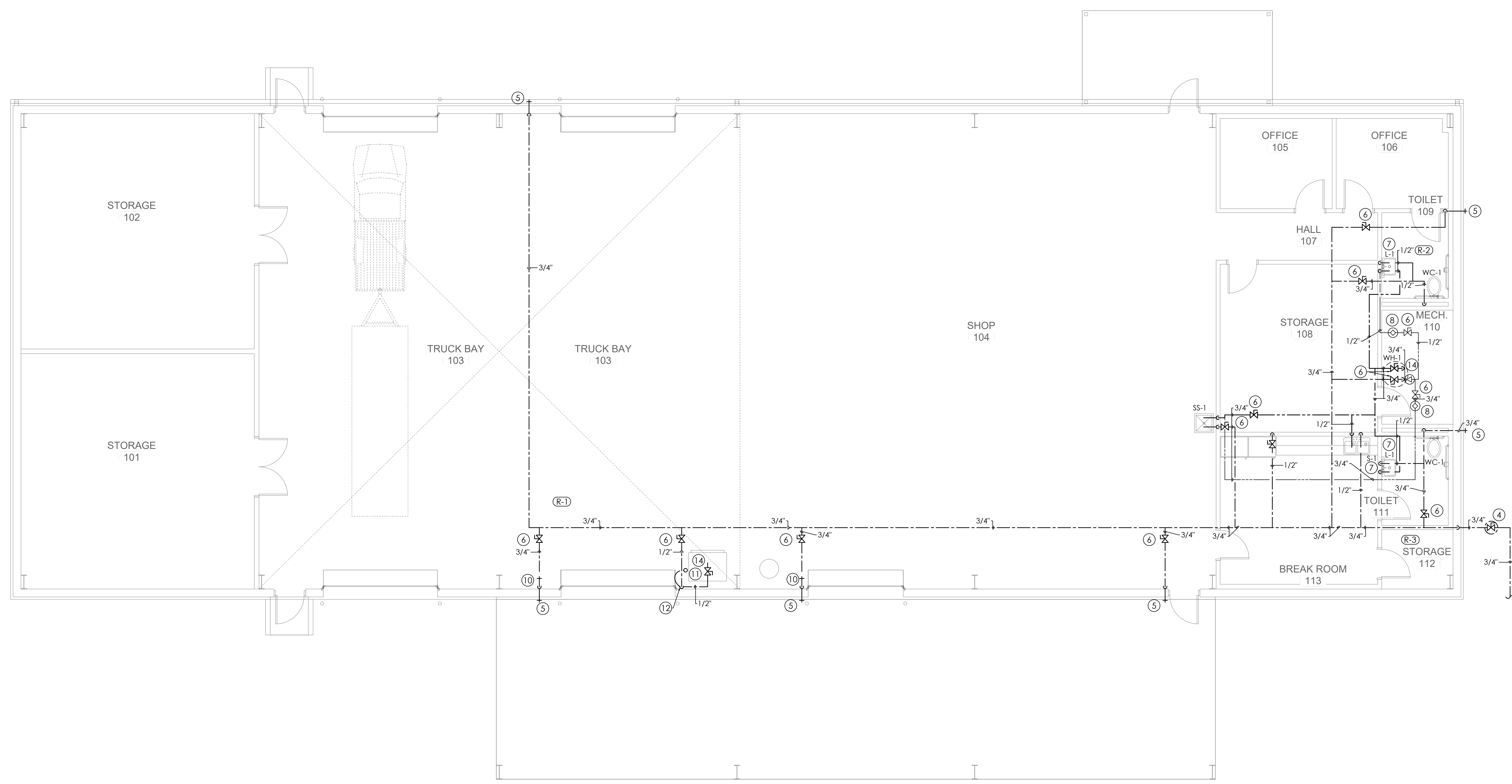
VALVES LOCATED ABOVE CEILING SHALL BE MADE EASILY ACCESSIBLE. LOCATE 24" MAX ABOVE CEILING. PLUMBER SHALL PROVIDE ACCESS PANELS IN GYP. BOARD CEILINGS MARK LOCATION OF VALVES ABOVE LAY-IN CEILINGS USING PLASTIC ENGRAVED LABEL WITH ADHESIVE BACKING LOCATED ON THE CEILING GRID COORDINATE WITH GENERAL CONTRACTOR.

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

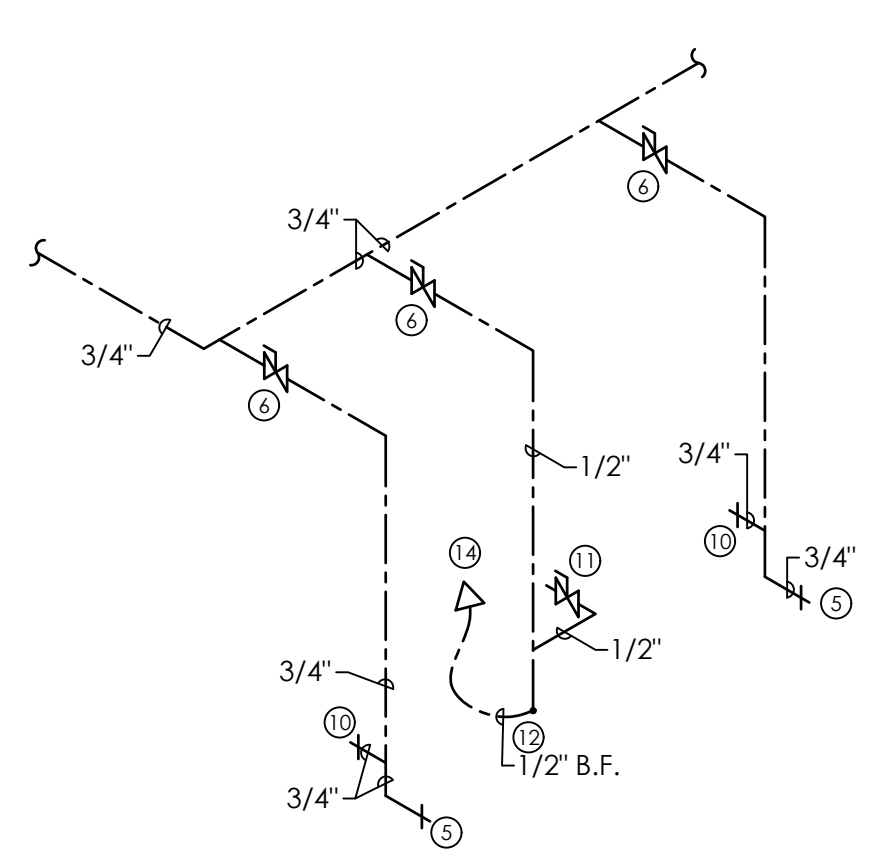
ALL WATER PIPING SHALL BE INSTALLED WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL LINES AT EACH CHANGE OF DIRECTION. TAG ALL VALVES AND PROVIDE VALVE TAG CHART.

NOTE LEGEND: (THIS SHEET ONLY)

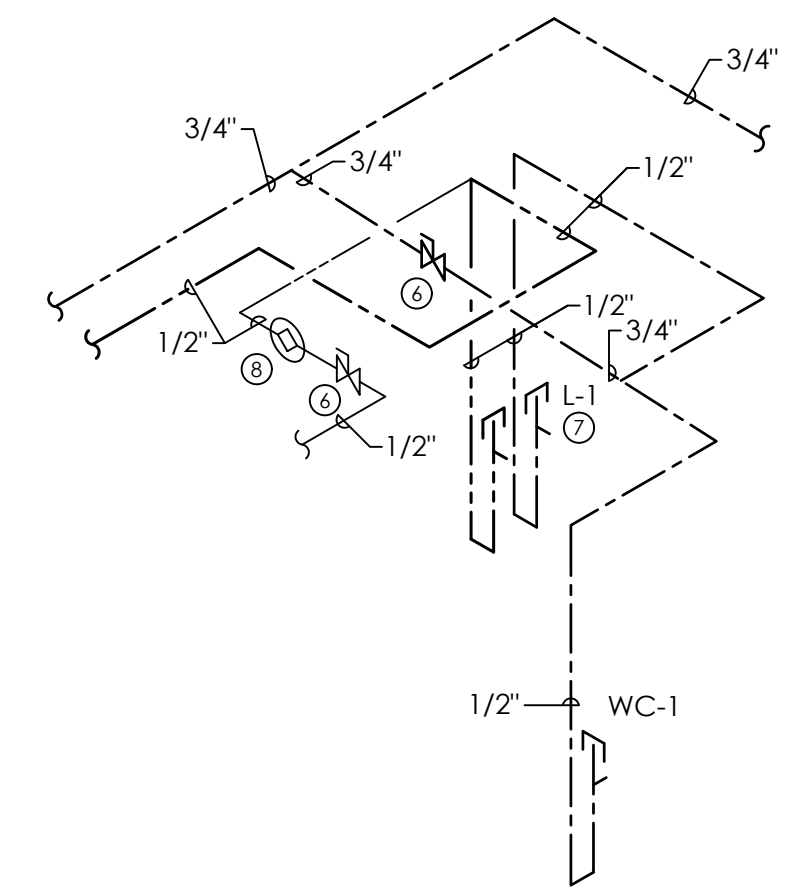
- MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
- SEE SITE UTILITY PLAN FOR CONTINUATION.
- BALL VALVE IN 24"x24"x6" CONCRETE VALVE BOX.
- WALL HYDRANT (FREEZE PROOF) IN BOX WITH LOOSE TEE KEY.
- BALL VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"x12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
- PROVIDE TEMPERATURE LIMITING VALVE BELOW FIXTURE. PROVIDE IN RECESSED ACCESS BOX WITH FINISHED FRAME. (SEE DETAIL) VALVE SHALL BE EQUAL TO ZURN ZW387DXLT, LEONARD 170D-LF-BRKT OR SICOX CHIEF MODEL 696 UNDER SINK. (SHALL COMPLY WITH A.S.S.E. 1070)
- BALANCING VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"x12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
- 1/2" C.W. TO ICE MAKER IN REFRIG. PROVIDE CHECK VALVE OR BACK FLOW PREVENTION DEVICE. PROVIDE WALL BOX AND WATER HAMMER ARRESTOR
- HOSE BIBB. INTERIOR GUARDIAN G6020 MIXING VALVE (EYE FACE WASH) WITH WHEEL HANDLE. STRAP WATER LINE TO COLUMN WITH UNISTRUT SUPPORT. (SEE DETAIL)
- 1/2" C.W. TO ICE MAKER. PROVIDE CHECK VALVE OR BACK FLOW PREVENTION DEVICE. PROVIDE WALL BOX AND WATER HAMMER ARRESTOR
- TRAP PRIMER. WITH 12"x12" STAINLESS STEEL ACCESS PANEL.
- RECIRCULATING PUMP
- 3" F.D. PROVIDE TRAP PRIMER



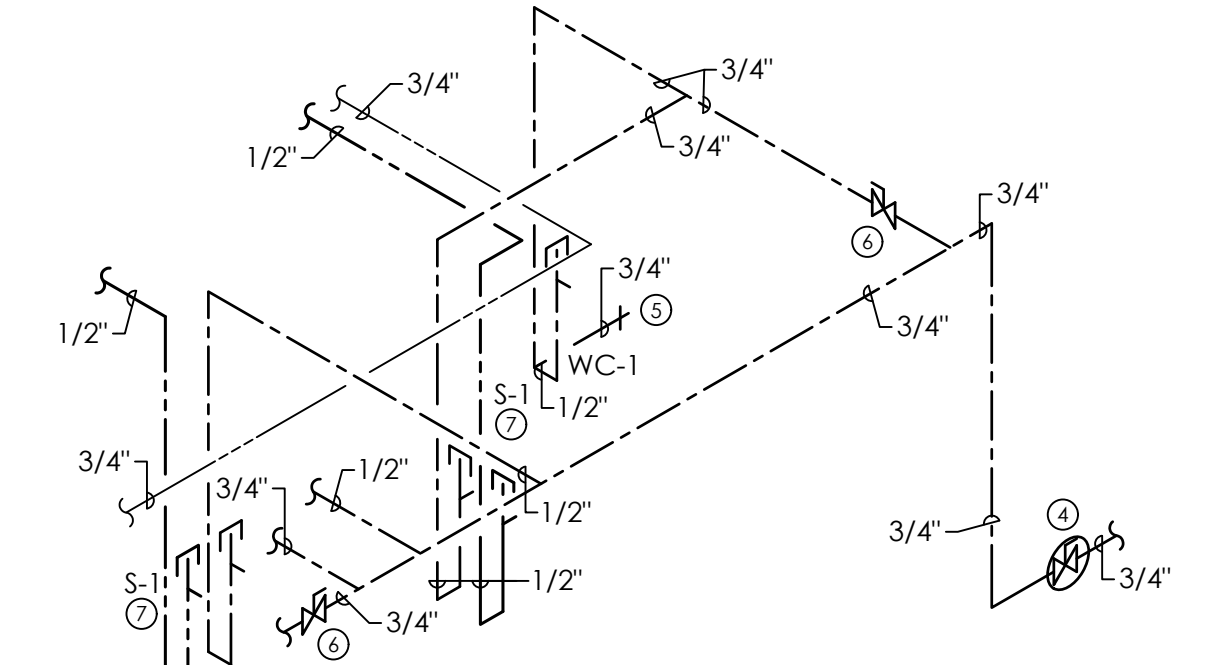
WATER FLOOR PLAN
SCALE: 3/16\"=1'-0"



WASTE RISER (R-1)
NO SCALE



WASTE RISER (R-2)
NO SCALE

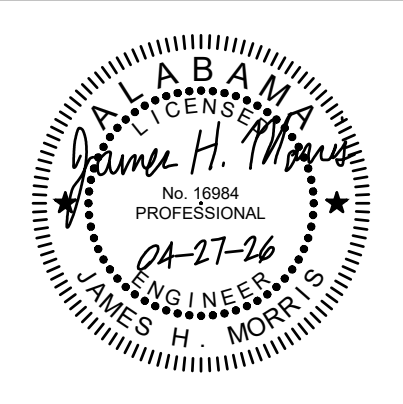


WASTE RISER (R-3)
NO SCALE

SCALE: 3/16\"=1'-0"
0 4 8'

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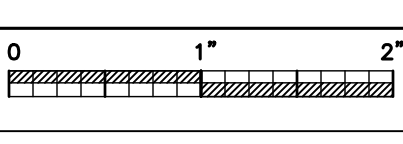


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| DATE: | 04/27/2026 |
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SHEET NO:

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GAS PIPING IS SIZED USING TABLE 402.4(15)(2PSI) & 402.4(2) (7"W.C.) FROM THE 2021 INTERNATIONAL FUEL GAS CODE (SCH. 40 STEEL PIPING AT 2PSI INLET PRESSURE). THE LENGTH OF PIPING FROM THE BUILDING METER TO THE FURTHEST EQUIPMENT CONNECTION IS APPROXIMATELY 250'-0". ANY CHANGE IN MATERIALS OR ROUTING WILL REQUIRE RECALCULATION OF REQUIRED PIPE SIZES. FOR A TOTAL/FUTURE LOAD = 400 MBH LOAD

GAS SYSTEM SHALL BE INSTALLED BY A LICENSED GAS TECHNICIAN.

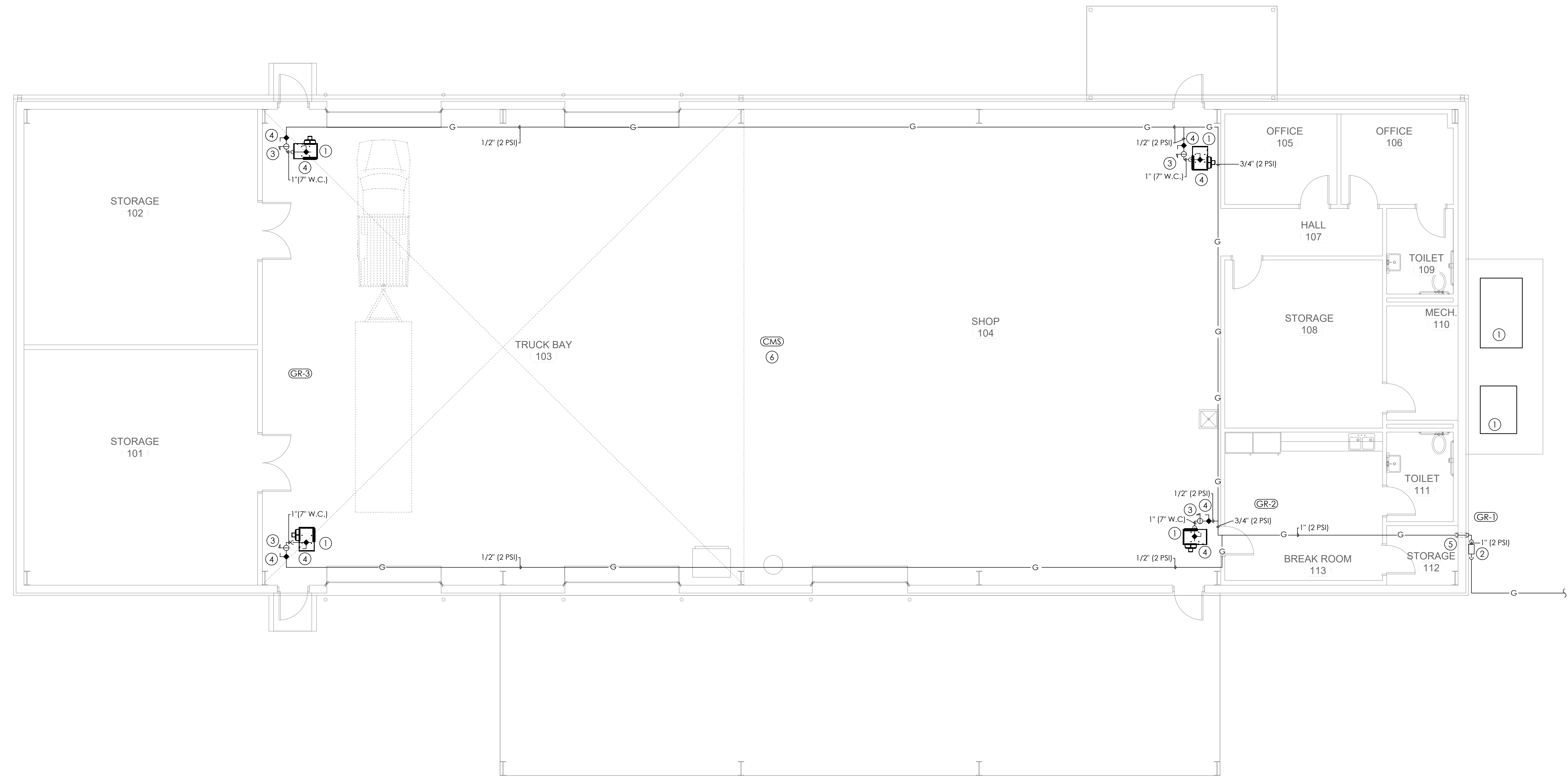
ALL GAS PIPING BELOW GRADE AND SLAB SHALL BE SLEEVED AND VENTED. TRACPIPE P-41, BLACK STEEL OR EQUAL. ALL GAS PIPING ABOVE GRADE SHALL BE TRAC PIPE COUNTER STRIKE, BLACK STEEL OR EQUAL. LABEL ALL LINES AND REGULATORS WITH PRESSURE SHOWN.

GAS PIPING EXPOSED (AREAS WITHOUT CEILINGS) SHALL BE PAINTED FLAT BLACK WITH ONE COAT OF PRIMER AND ONE COAT OF ENAMEL PAINT. LABEL ALL LINES AND REGULATORS WITH PRESSURE SHOWN.

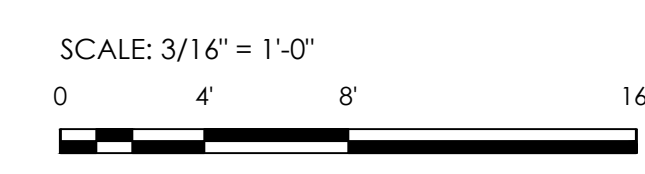
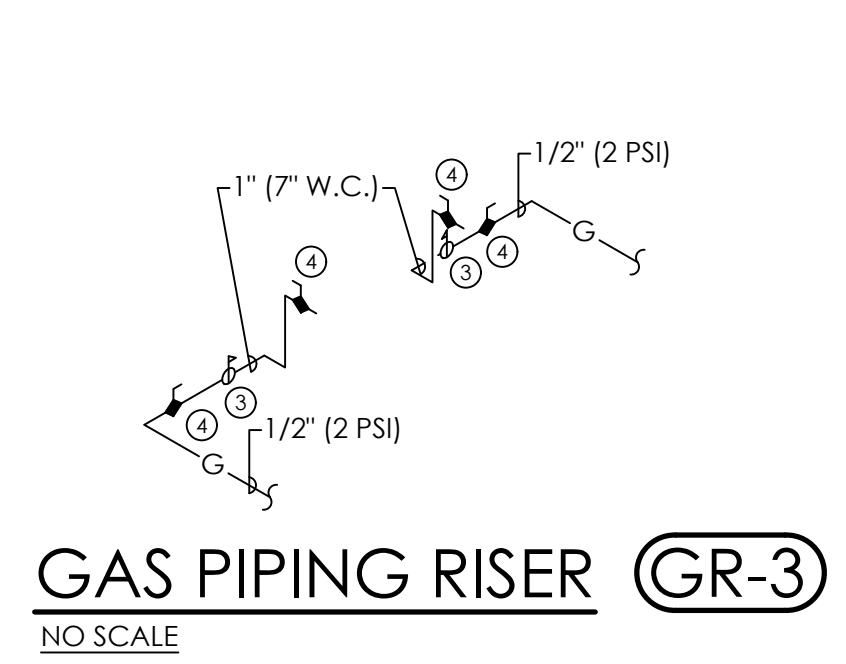
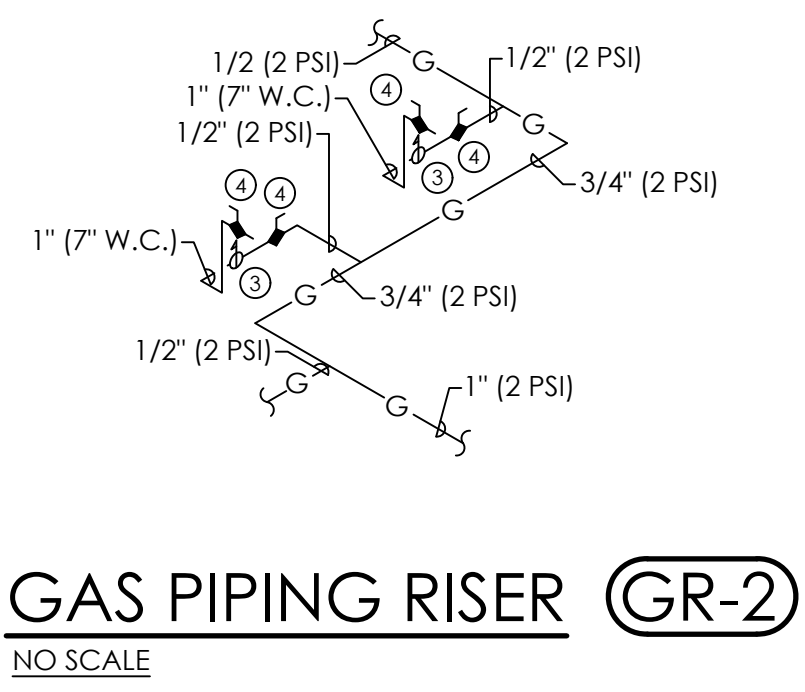
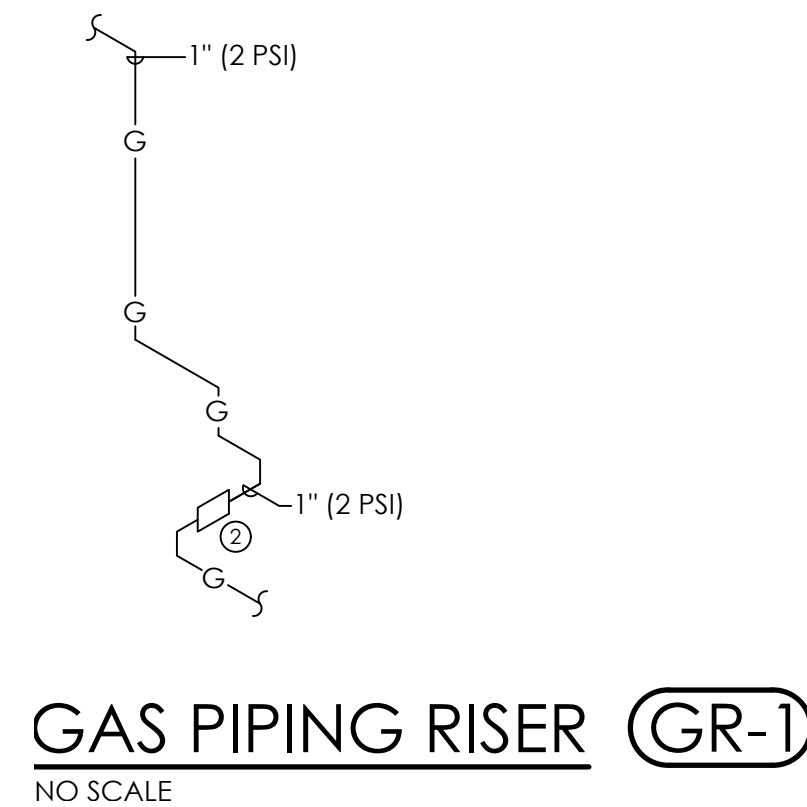
EXTEND RELIEF VENT CONNECTIONS FOR SERVICE REGULATORS, LINE REGULATORS, AND OVERPRESSURE PROTECTION DEVICES TO OUTDOORS AND TERMINATE WITH WEATHER PROOF VENT CAP. MAXITROL OR EQUAL VENTLESS TYPE ACCEPTABLE.

NOTE LEGEND: (THIS SHEET ONLY)

- MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. LOCATED ON MEZZANINE LEVEL.
- GAS METER. (COORDINATE LOCATION WITH LOCAL UTILITY) SOUTHEAST GAS RESPONSIBLE FOR METER.
- GAS REGULATOR. 2PSI TO 7"W.C. CONTRACTOR TO PROVIDE REGULATOR TAG WITH INCOMING AND OUTGOING PRESSURE. MAXITROL (VENTLESS IS ACCEPTABLE)
- GAS VALVE.
- GAS PIPING TO RISE AND RUN AT STRUCTURE. PROVIDE UNISTRUT SUPPORT AT WALL. SLEEVE THROUGH WALL.
- CARBON MONOXIDE SENSOR AT STRUCTURE CEILING AREA



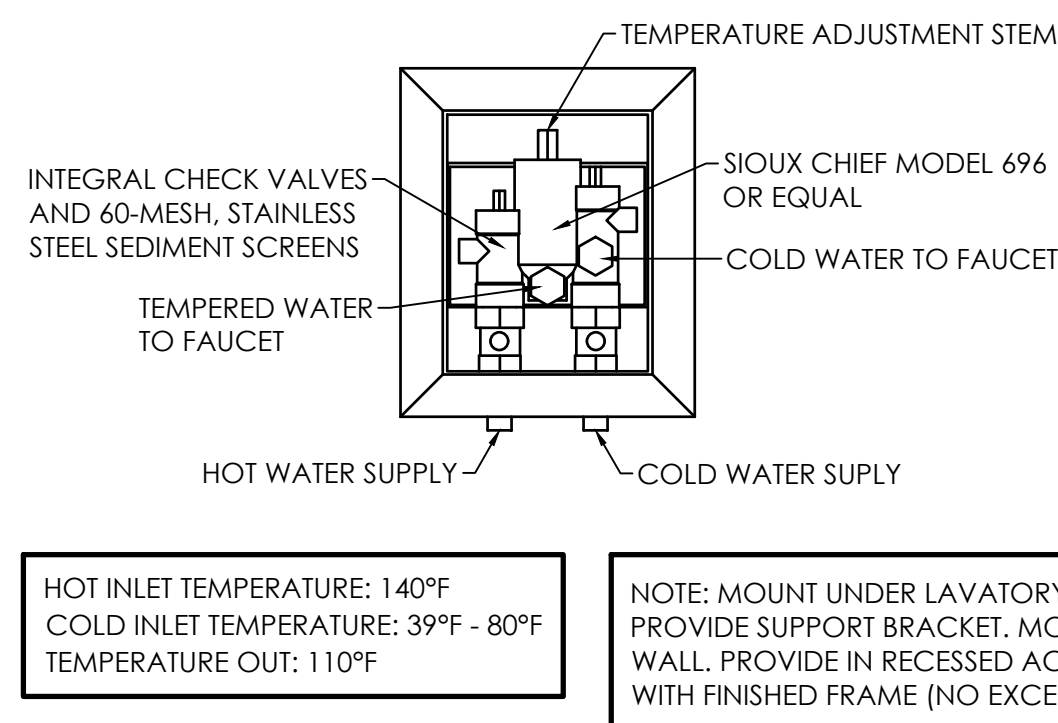
GAS FLOOR PLAN
SCALE: 3/16" = 1'-0"



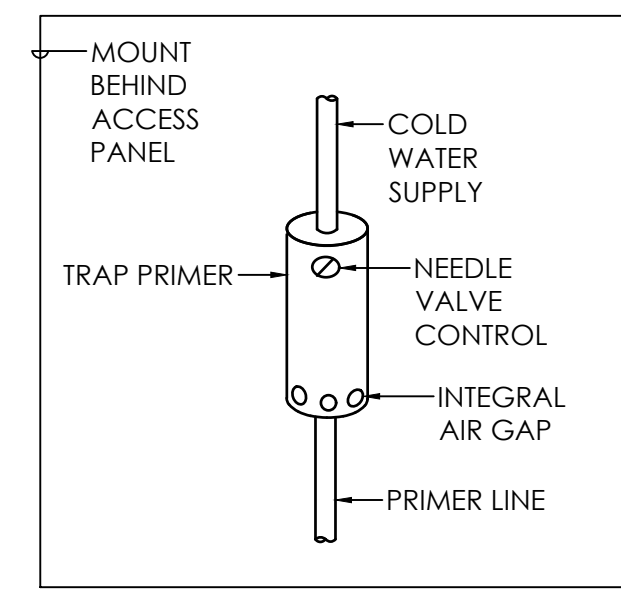
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PLUMBING GENERAL NOTES

- PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
- ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
- INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH THE 2021 INTERNATIONAL PLUMBING CODE.
- ALL INDIRECT DRAINS TO HAVE INSULATED DEEP SEAL P-TRAPS.
- ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.
- INSULATION ON ALL PIPING SHALL MEET SMOKE/FI FLAME RATING OF 25 & 30.
- ALL FLOOR DRAINS TO HAVE DEEP SEAL P-TRAPS.
- INSTALL WATER HAMMER ARRESTORS AS FOLLOWS:
 - LAY IN CEILING; MOUNT WATER HAMMER ARRESTOR ABOVE CEILING FOR ACCESS.
 - SHEETROCK CEILING; MOUNT WATER HAMMER ARRESTOR IN CHASE WALL, PROVIDE 12" X 12" STAINLESS STEEL ACCESS PANEL IN WALL.
- THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES, ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
- NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS.
- MAINTAIN A MAXIMUM OF 55 PSIG WATER PRESSURE AT PLUMBING FIXTURES, CONSISTENT WITH ADEQUATE FLOW RATES.
- ALL WASTE AND VENT IN CORRIDOR WALLS, RATED WALLS OR RETURN AIR PLENUMS TO BE CAST IRON PIPE.
- ALL VTR'S TO BE CAST IRON (3'-0" MIN. LENGTH) AT ROOF PENETRATION.
- SUPPORT PIPE AS REQUIRED BY THE 2021 INTERNATIONAL PLUMBING CODE.
- FIRESTOP ALL RATED WALLS AND FLOOR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS.
- COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.
- OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE OR ON FLAT ROOF (AS SHOWN).
- ALL CEILING ACCESS PANELS SHALL BE PAINTED TO MATCH CEILING.
- PROVIDE FIRESTOPPING ASSEMBLIES AT ANY AND ALL FIRE-RATED PENETRATIONS. EQUAL TO ROXTEC.
- DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF FINAL CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).
- PROVIDE 12"X12" CEILING ACCESS PANEL (MI FAB OR EQUAL) TO MATCH CEILING FOR ALL VALVES IF LOCATED IN TILE CEILING AREA, (TYPICAL)
- ALL PLUMBING PRODUCTS THAT COME INTO CONTACT WITH POTABLE (DRINKABLE) WATER SHALL COMPLY WITH SAFE DRINKING WATER ACT (SDWA) AND THE REDUCTION OF LEAD IN DRINKING WATER. REDUCTION OF LEAD IN DRINKING WATER ACT WENT INTO EFFECT ON JANUARY 4, 2014.
- THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES AND NORMAL FUNCTIONING OF EXISTING FACILITIES AND SERVICES.
- VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD.
- THE CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT, ETC.
- COORDINATE ROUTING AND LOCATIONS OF WASTE AND VENT PIPING WITH ALL OTHER TRADES.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS, ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE DEVICE.
- PROVIDE STOPS AND SHOCK ABSORBERS AT EACH FIXTURE OR GROUP OF FIXTURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO GAS FIRED EQUIPMENT AND SPECIFIED FIXTURES. ALL GAS FIRED EQUIPMENT AND FIXTURES SHALL BE OPERABLE.
- PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.



TEMPERATURE LIMITING VALVE IN WALL BOX DETAIL
NO SCALE



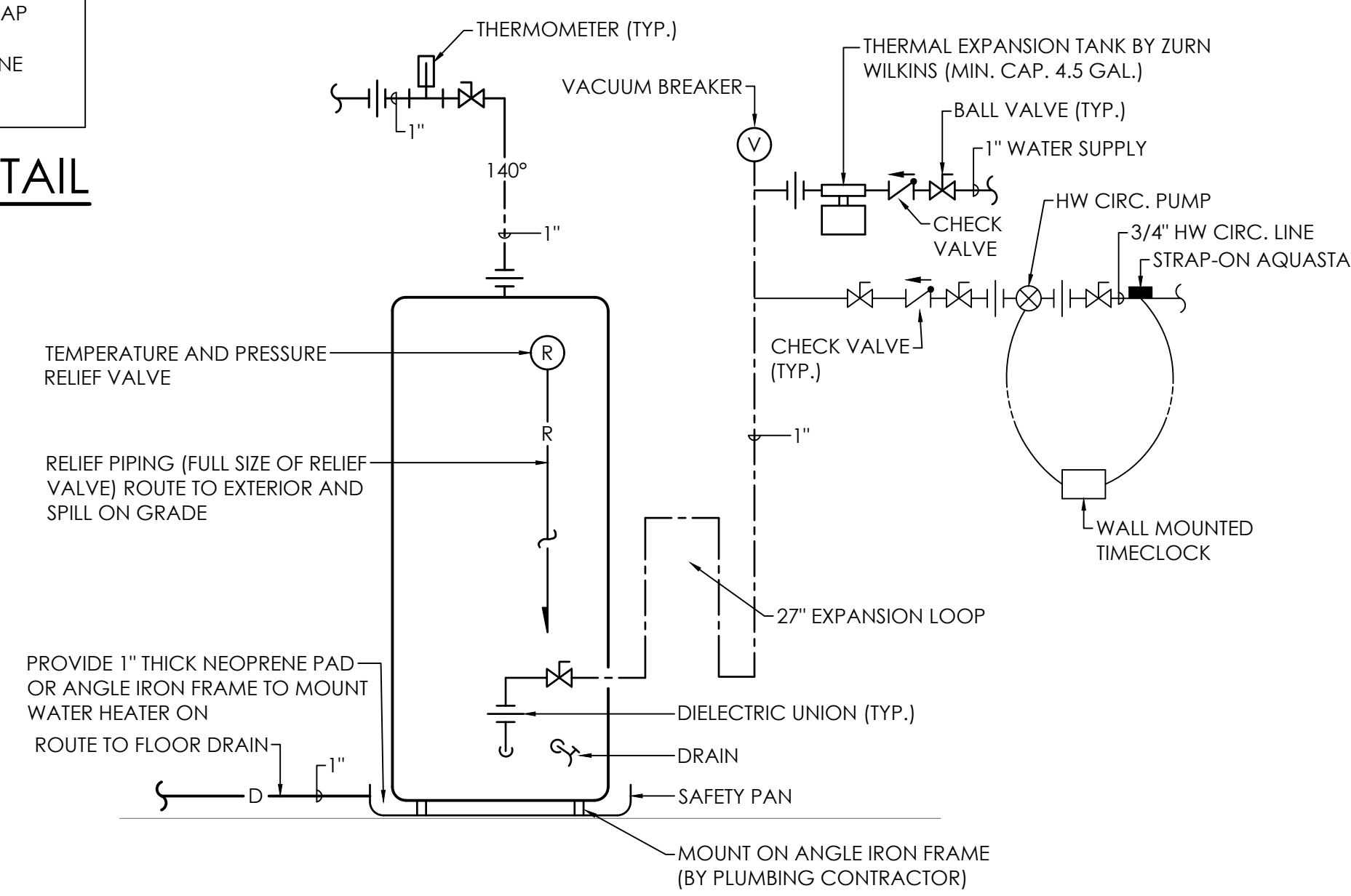
TRAP PRIMER DETAIL
NO SCALE

| PLUMBING FIXTURE SCHEDULE | | | | | REMARKS |
|---------------------------|----------------------|------|------|--------|---|
| MARK | FIXTURE | COLD | HOT | WASTE | |
| WC-1 | WATER CLOSET (H/C) * | 1" | --- | 4" | FLOOR MOUNTED, FLUSH VALVE (H/C) |
| L-1 | LAVATORY (H/C) ** | 1/2" | 1/2" | 1-1/4" | WALL HUNG, HANG 34" RIM TO FINISHED FLOOR |
| SS-1 | SERVICE SINK | 1/2" | 1/2" | 3" | FIBERGLASS ON LEGS |
| S-1 | SINK ** | 1/2" | 1/2" | 1-1/2" | STAINLESS STEEL DOUBLE COMPARTMENT |

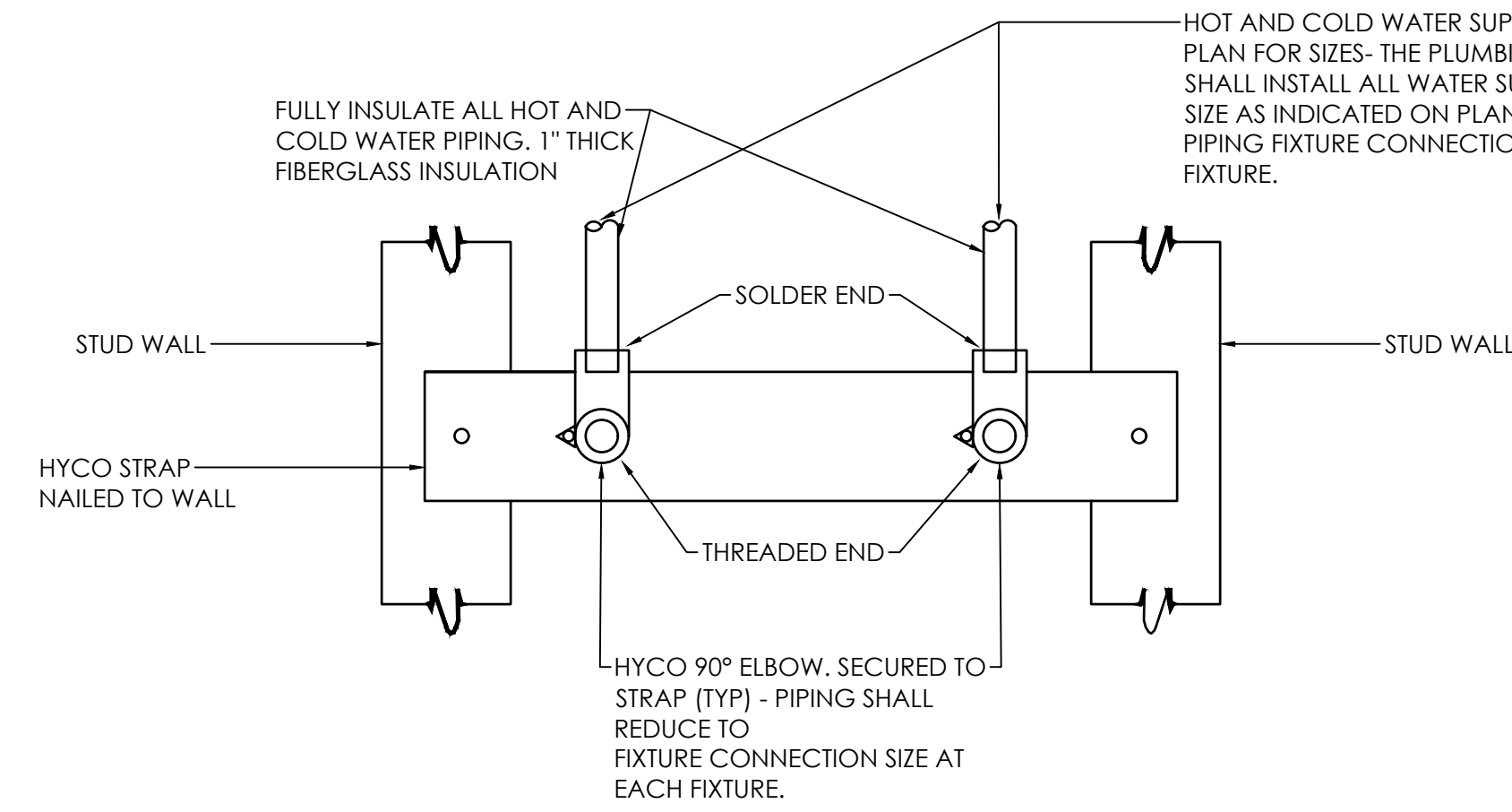
FIXTURE SCHEDULE NOTES:
 * HANDLE TO WIDE SIDE OF STALL.
 ** INSULATE P-TRAP, DRAIN AND SUPPLIES WITH HAND LAY GUARD INSULATION KIT #102W OR EQUAL BY TRAP WRAP AND MCGUIRE PRO WRAP.

| ELECTRIC WATER HEATER SCHEDULE | | | | | | |
|--------------------------------|------------------|----------------------|----|------|----|----|
| MARK | STORAGE CAPACITY | RECOVERY @ 100°F Δ T | KW | VOLT | PH | CY |
| WH-1 | 30 | 24 | 6 | 208 | 1 | 60 |

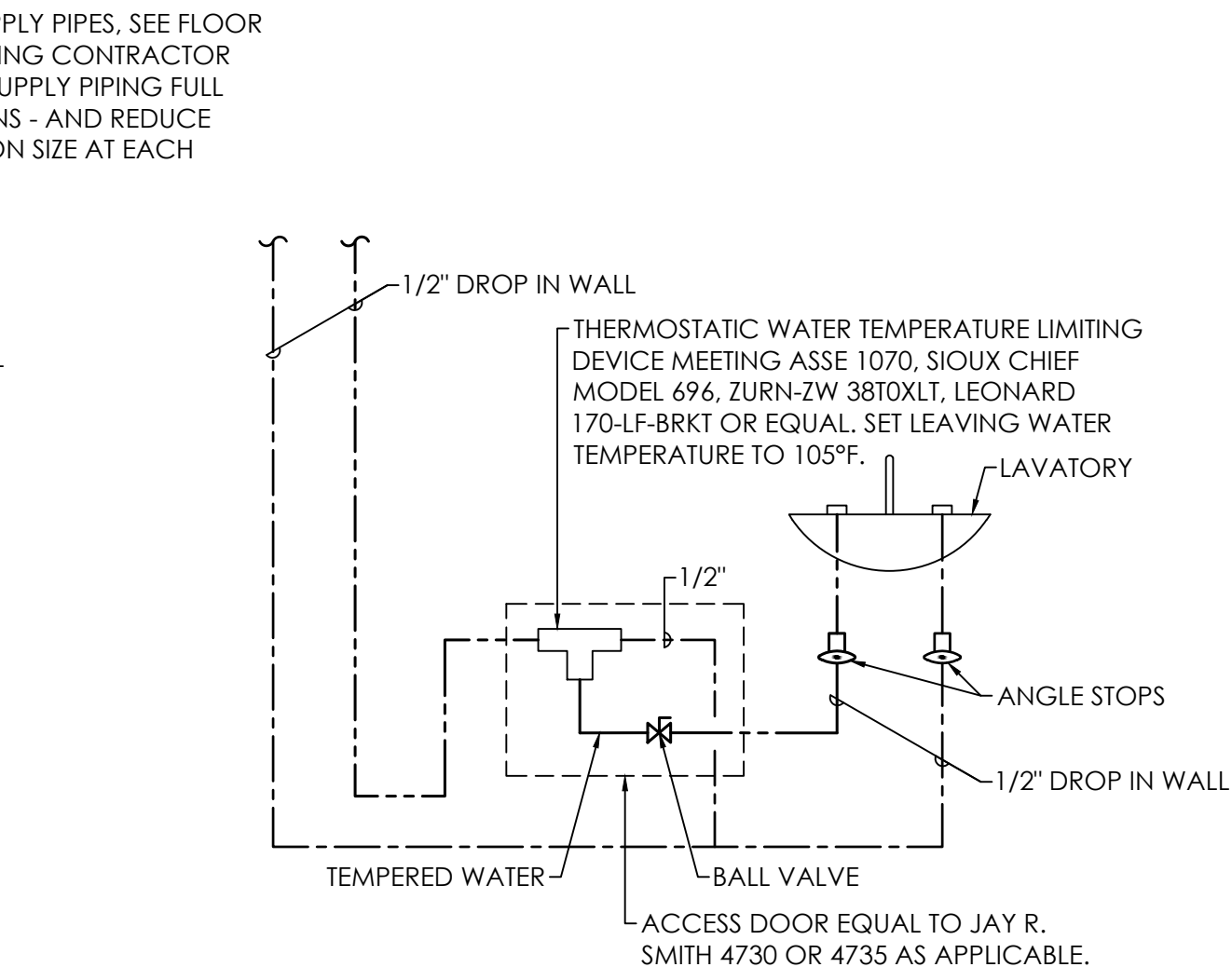
ELECTRIC WATER HEATER SCHEDULE NOTES:
 1. PROVIDE THREE YEAR WARRANTY.
 2. PROVIDE EXPANSION TANK (SEE SPEC.)
 3. BASED ON RHEEM EGS-30 OR EQUAL.
 4. PROVIDE CIRC. PUMP 1/20 HP, 120/1/60. (SEE SPECS)
 5. PROVIDE TIME CLOCK 120/1/60 (SEE SPECS)



WATER HEATER CONNECTION DETAIL
NO SCALE (WH-1)

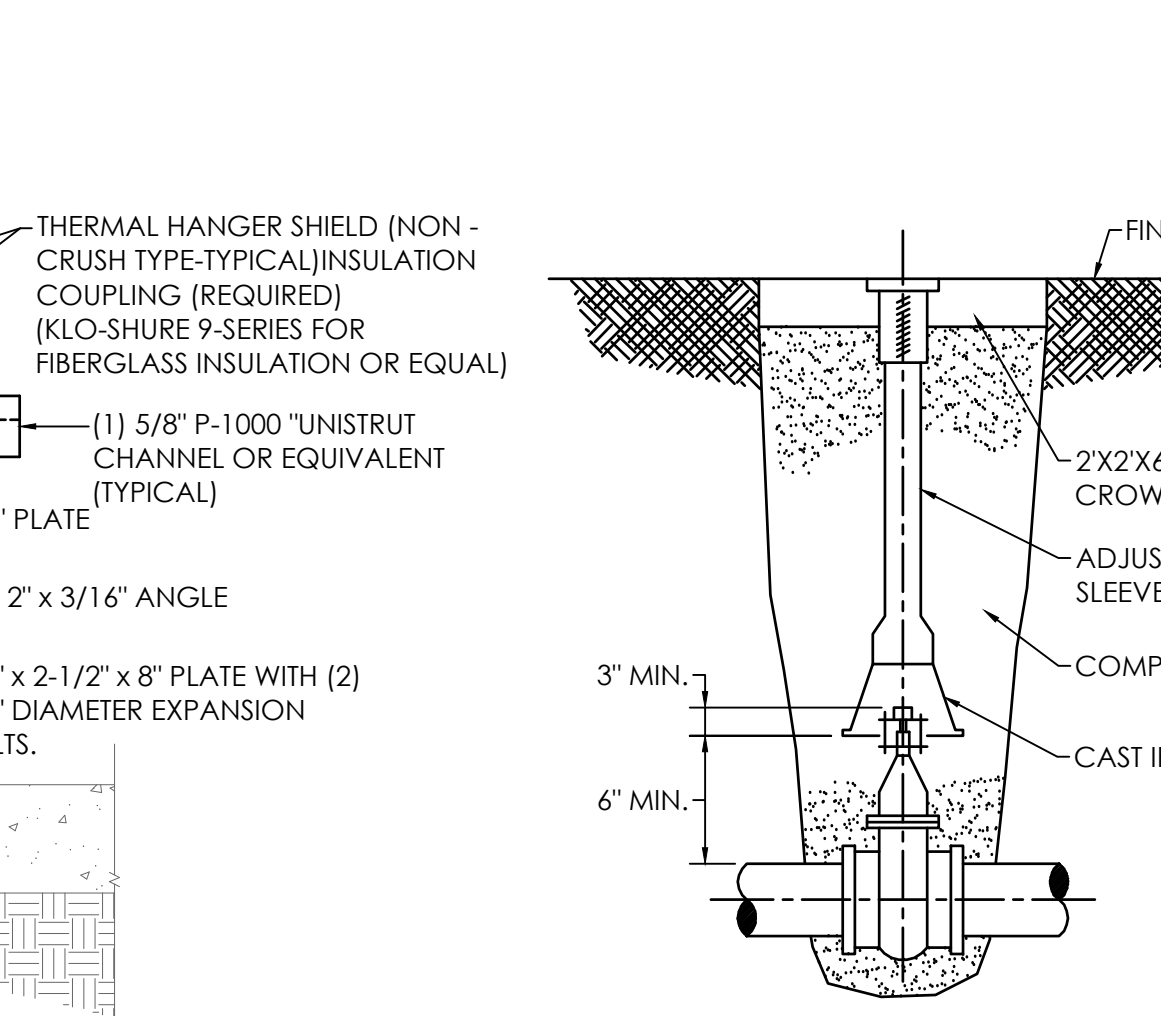


PIPE SUPPORT DETAIL
NO SCALE

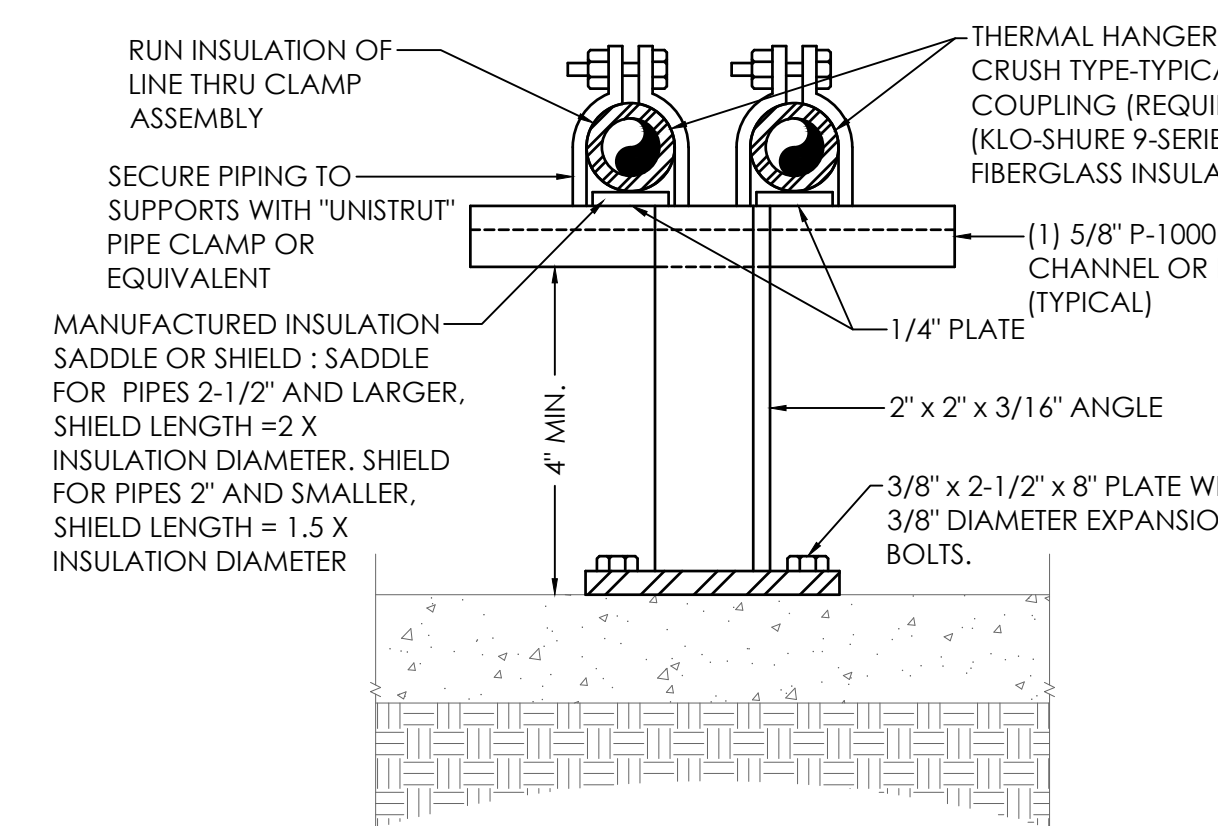


WATER TEMPERATURE LIMITING DEVICE DETAIL
NO SCALE

TYPICAL GAS CONNECTION DETAIL
NO SCALE

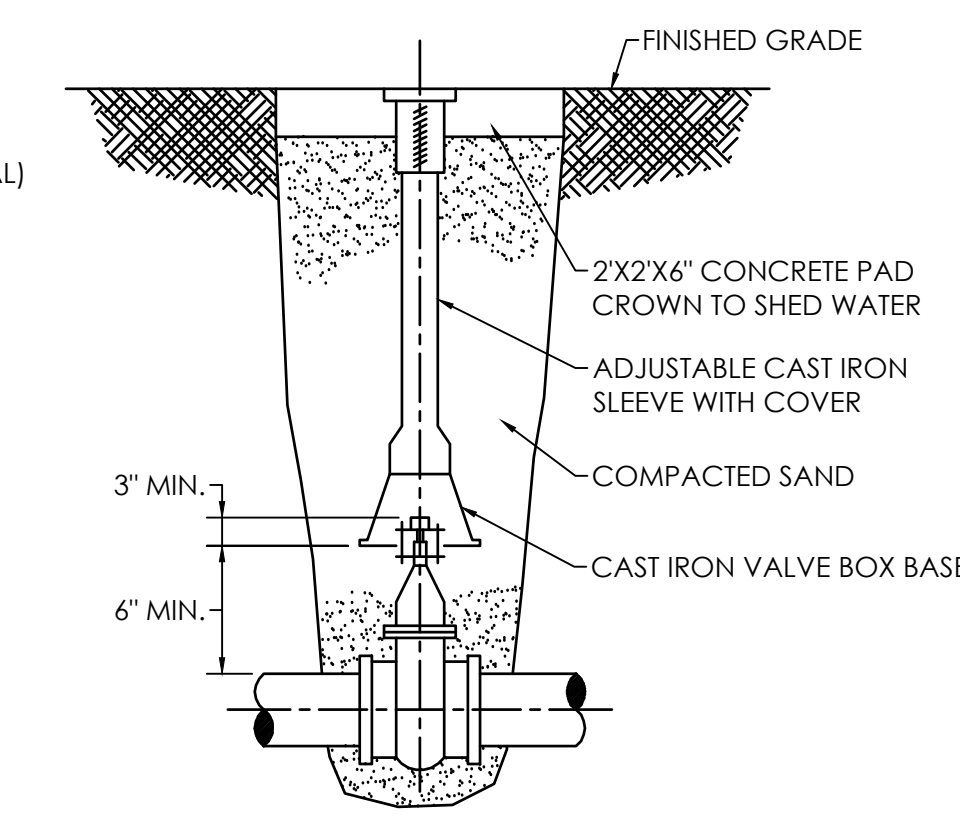


EXTERIOR PIPE SUPPORT DETAIL
NO SCALE (NOTE: PROVIDE PREFAB 90° ELBOW ALUMINUM COVER)



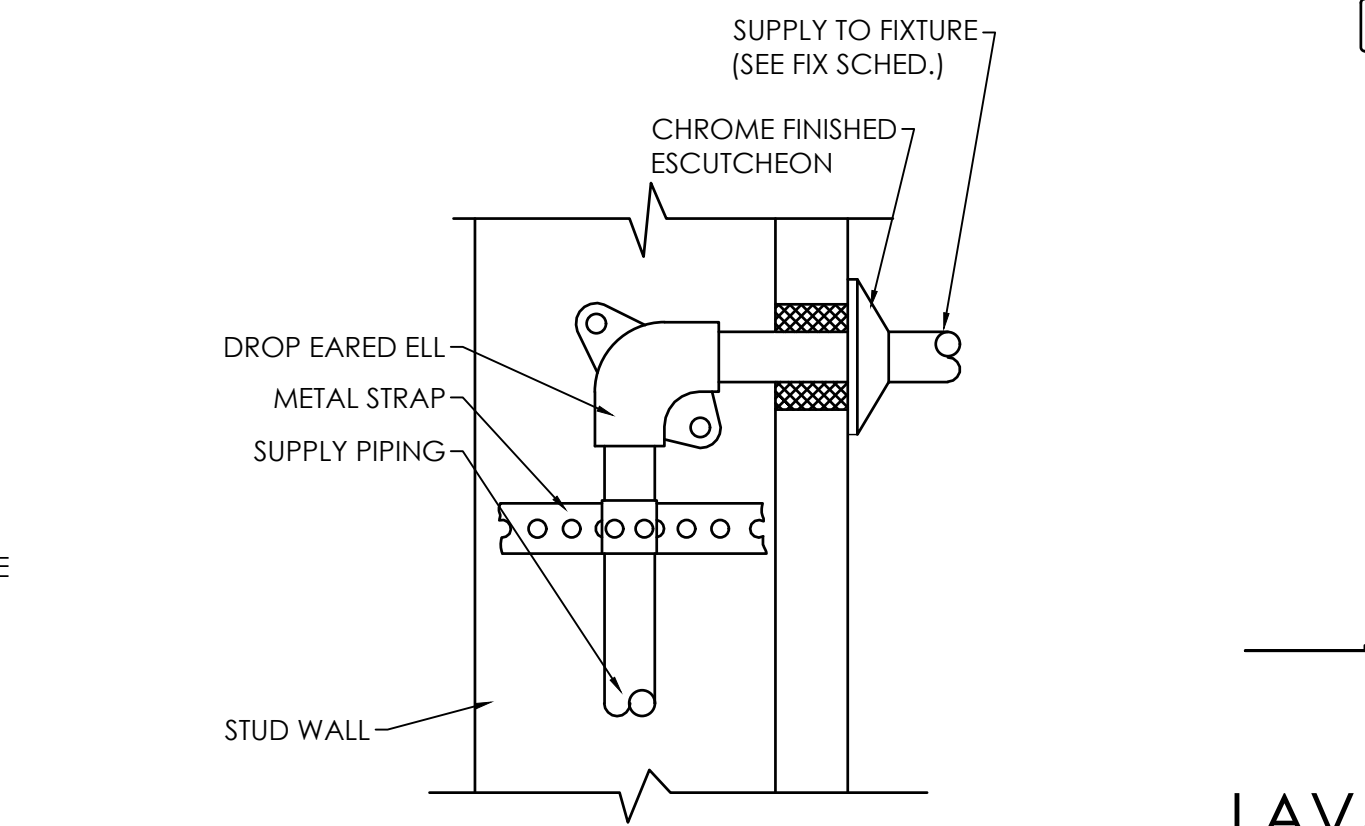
NOTE: PAINT ANGLE SUPPORTS TO MATCH BUILDING FACE BRICK COLOR (TYPICAL)

BALL VALVE AND BOX DETAIL
NO SCALE

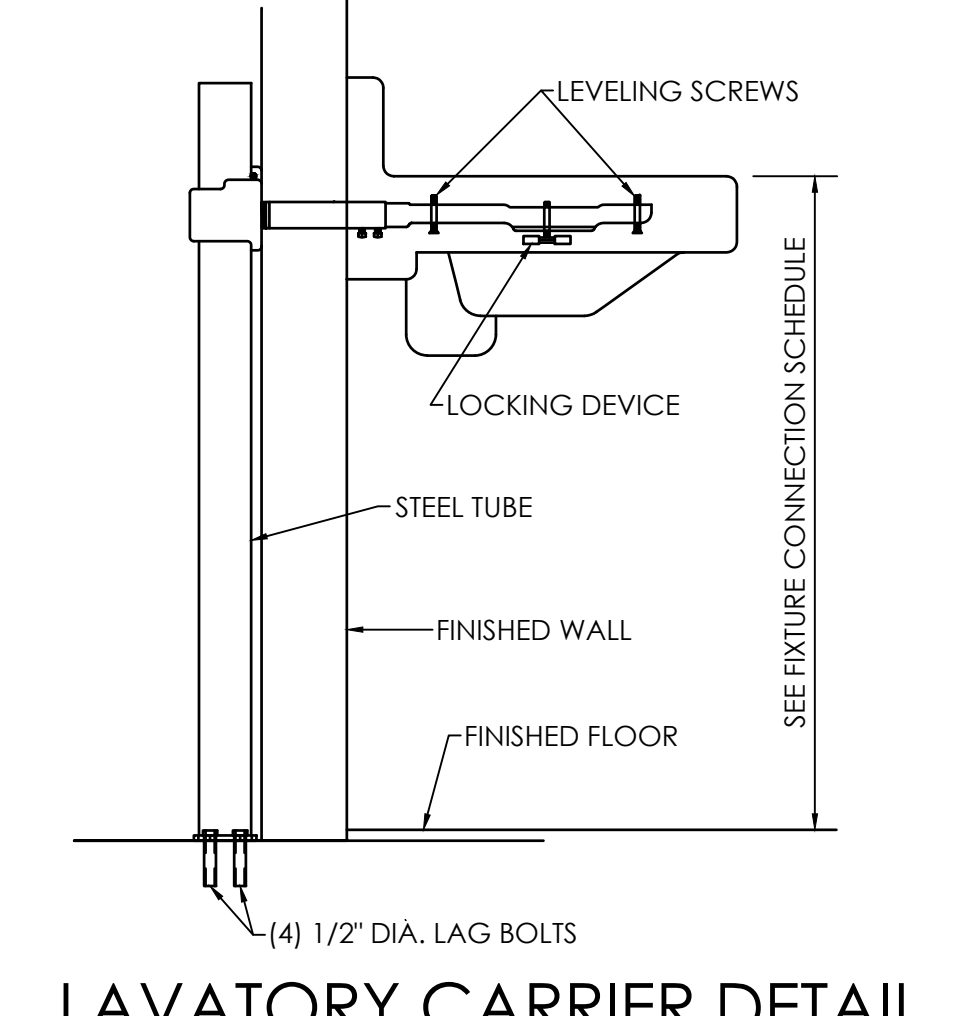
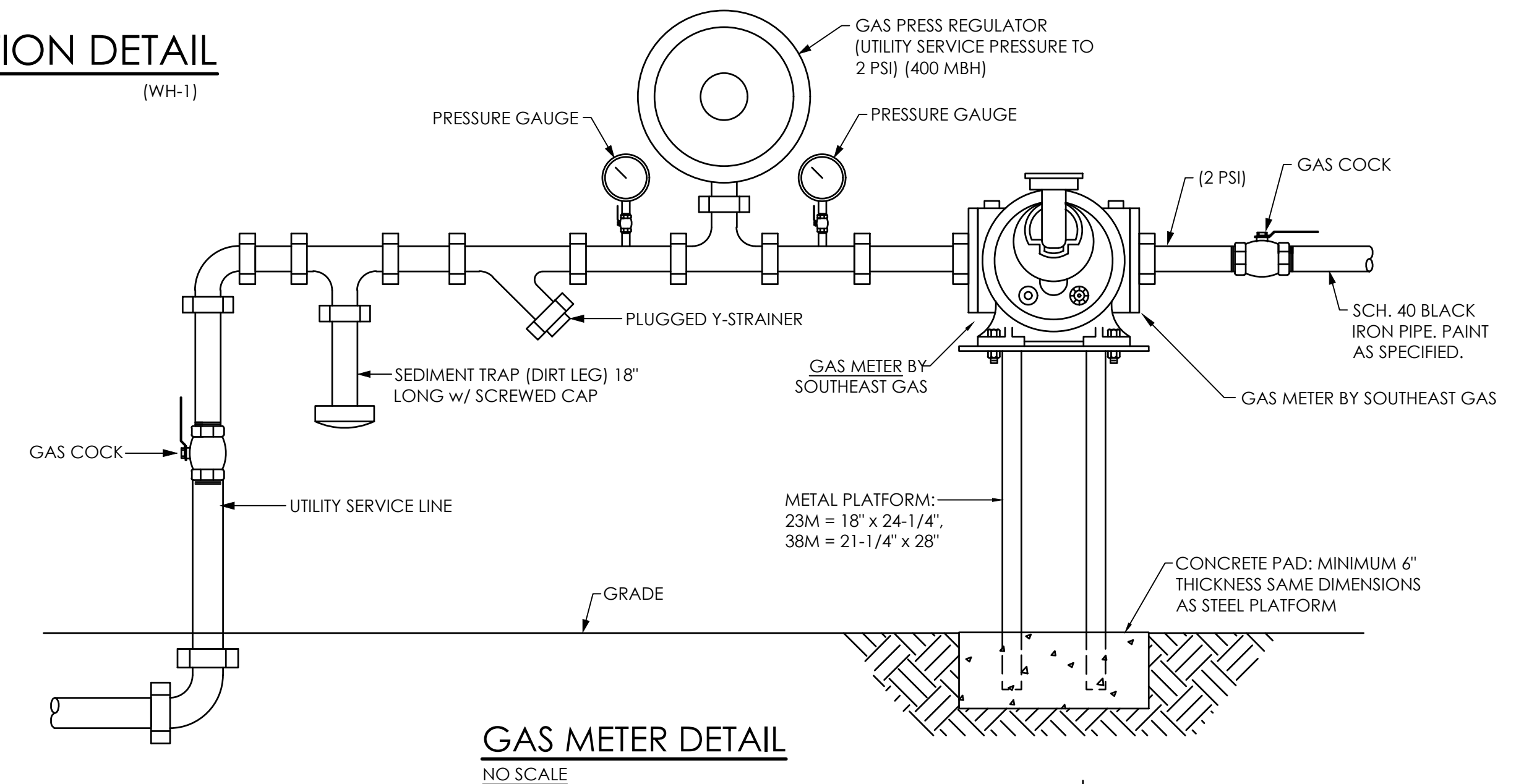


NOTE: 1. VALVE BOX SHALL NOT REST ON VALVE OR MAIN LINE PIPE.
 2. A VALVE STEM EXTENSION WITH CENTERING RING IS REQUIRED FOR VALVES BURIED DEEPER THAN 6".

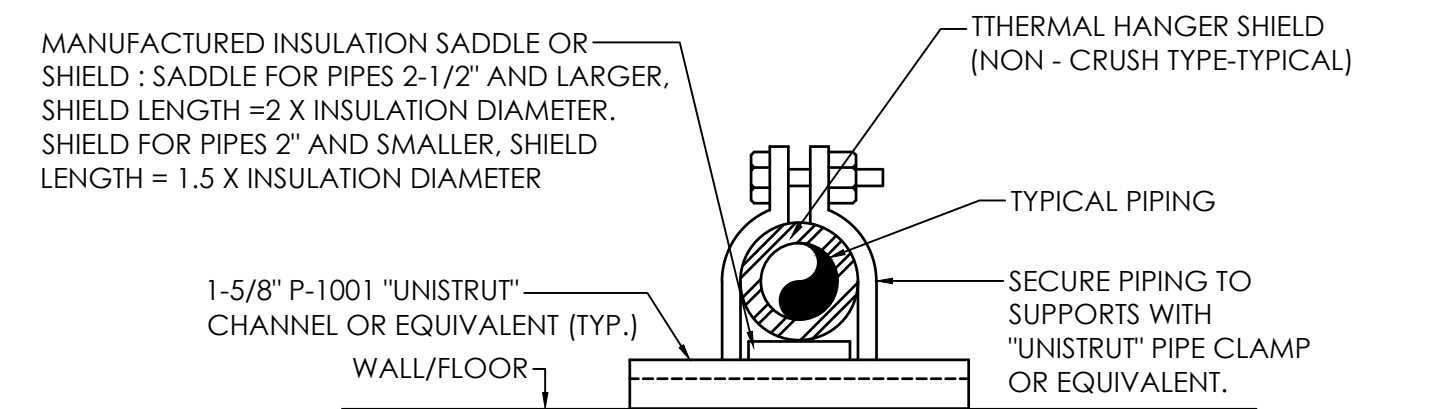
ANCHORING FOR WATER SUPPLY DETAIL
NO SCALE



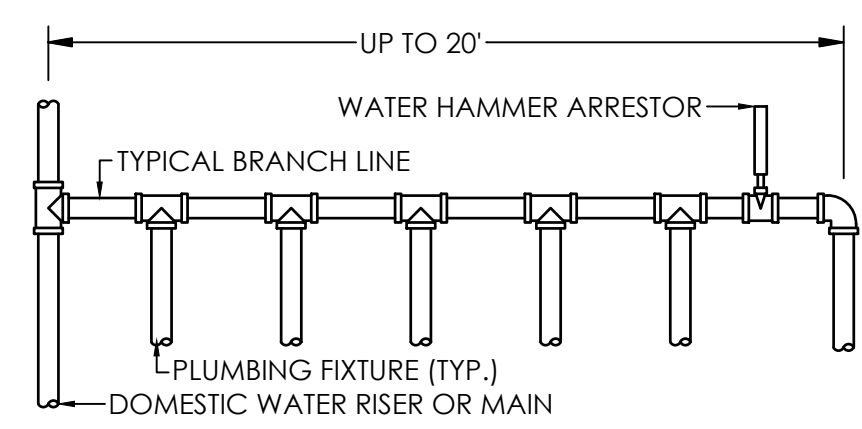
GAS METER DETAIL
NO SCALE



LAVATORY CARRIER DETAIL
NO SCALE (BASED ON ZURN Z-1231-SL)

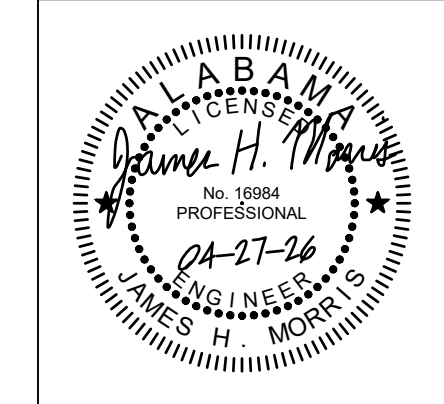


PIPING SUPPORT AT WALL/FLOOR DETAIL
NO SCALE

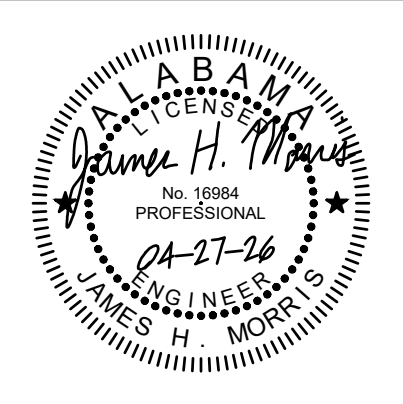


| WATER HAMMER ARRESTOR SCHEDULE | | | | | |
|--------------------------------|------|-------|-------|--------|---------|
| P.D.I. UNITS | A | B | C | D | E |
| FIXTURE UNITS | 1-11 | 12-32 | 33-40 | 41-113 | 114-154 |

PROVIDE ACCESS FOR SERVICE.
WATER HAMMER ARRESTOR INSTALLATION DETAIL
NO SCALE



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| PROJ. MGR.: FGH |
| DRAWN: BMP |
| DATE: 04/27/2026 |
| REVISIONS |

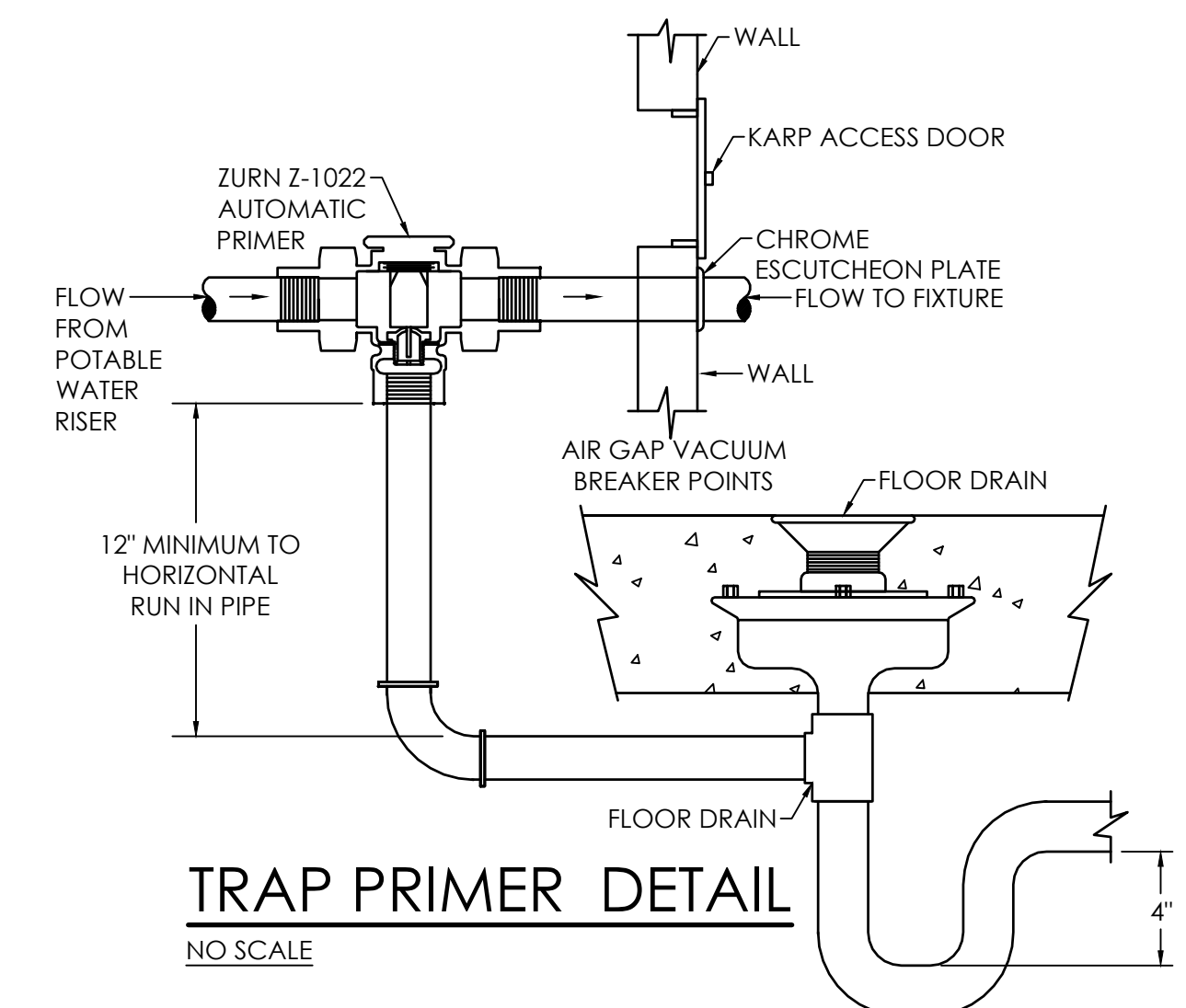
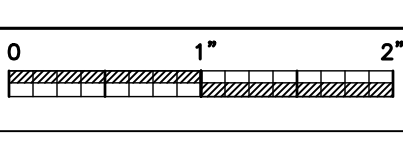


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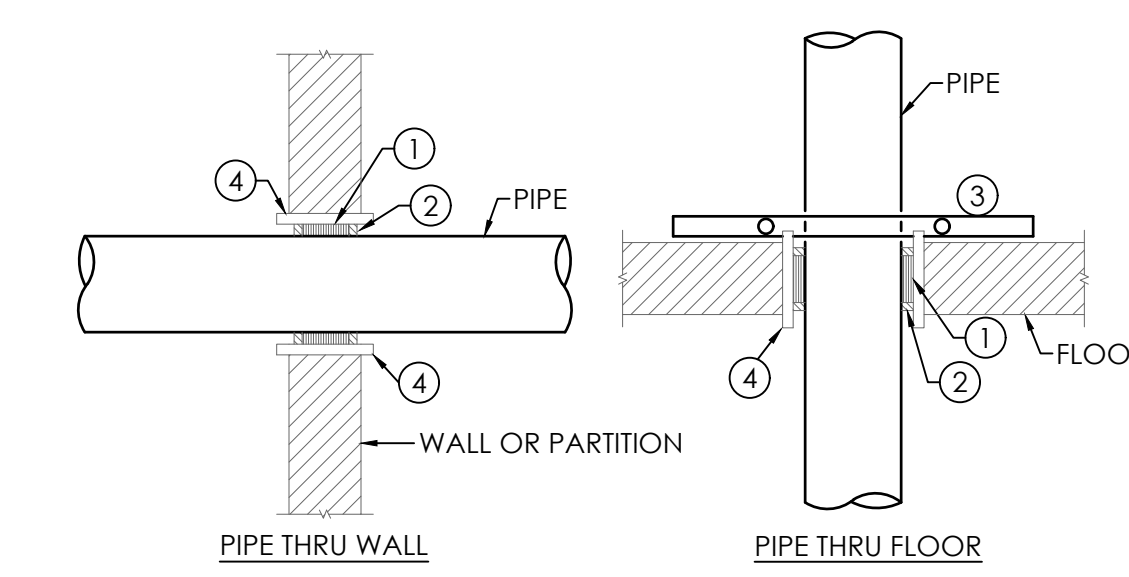
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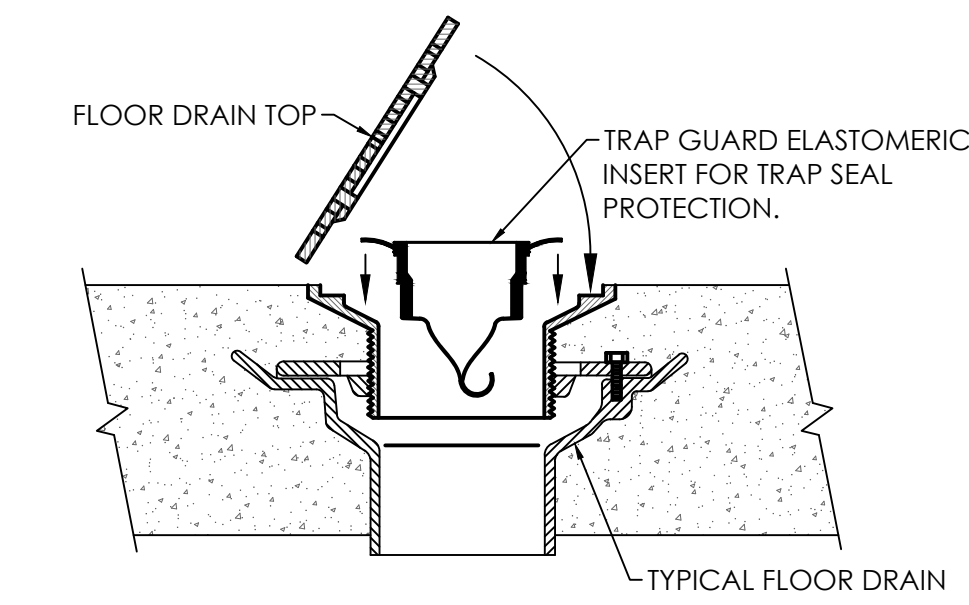


TRAP PRIMER DETAIL
NO SCALE



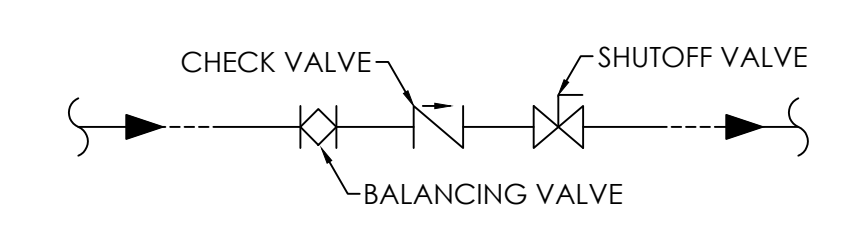
- PIPE THRU STRUCTURE LEGEND:
1. FIRE STOP FOAM
 2. FIRE STOP SEALANT
 3. RISER CLAMP
 4. SLEEVE

PIPE THRU STRUCTURE DETAIL
NO SCALE



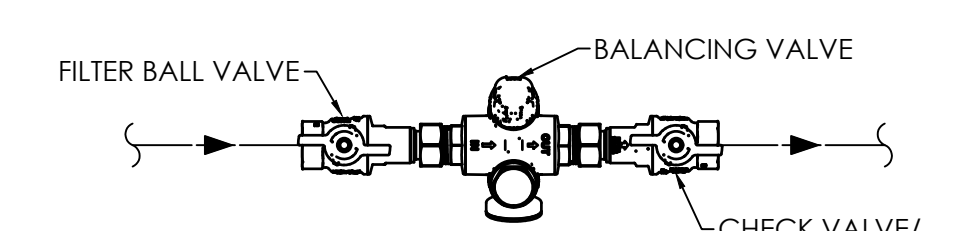
NOTE: PROVIDE TRAP SEAL PROTECTION FOR ALL FLOOR DRAINS, HUB DRAINS, FLOOR SINKS AND INDIRECT DRAINS. INSTALL AND SEAL TRAP GUARD ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

TRAP GUARD DETAIL - FLOOR DRAIN
NO SCALE



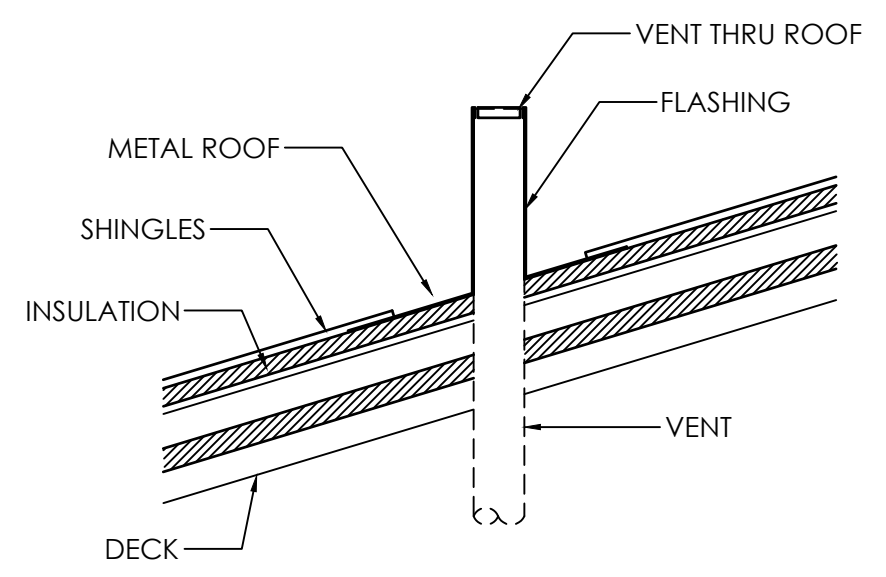
NOTE: THIS REQUIRED VALVE TRAIN IS REPRESENTED GRAPHICALLY AS JUST A BALANCING VALVE ON THE PLAN.

HOT WATER RETURN ASSEMBLY DETAIL
NO SCALE



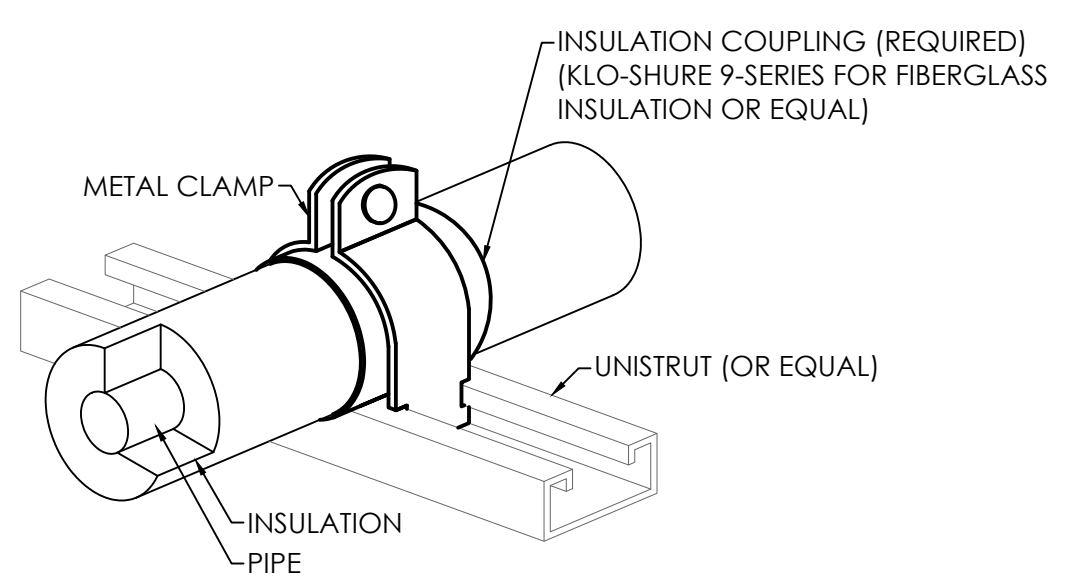
NOTE: THIS REQUIRED VALVE TRAIN IS REPRESENTED GRAPHICALLY AS JUST A BALANCING VALVE ON THE PLAN.

THERMOSTATIC BALANCING VALVE ASSEMBLY DETAIL
NO SCALE



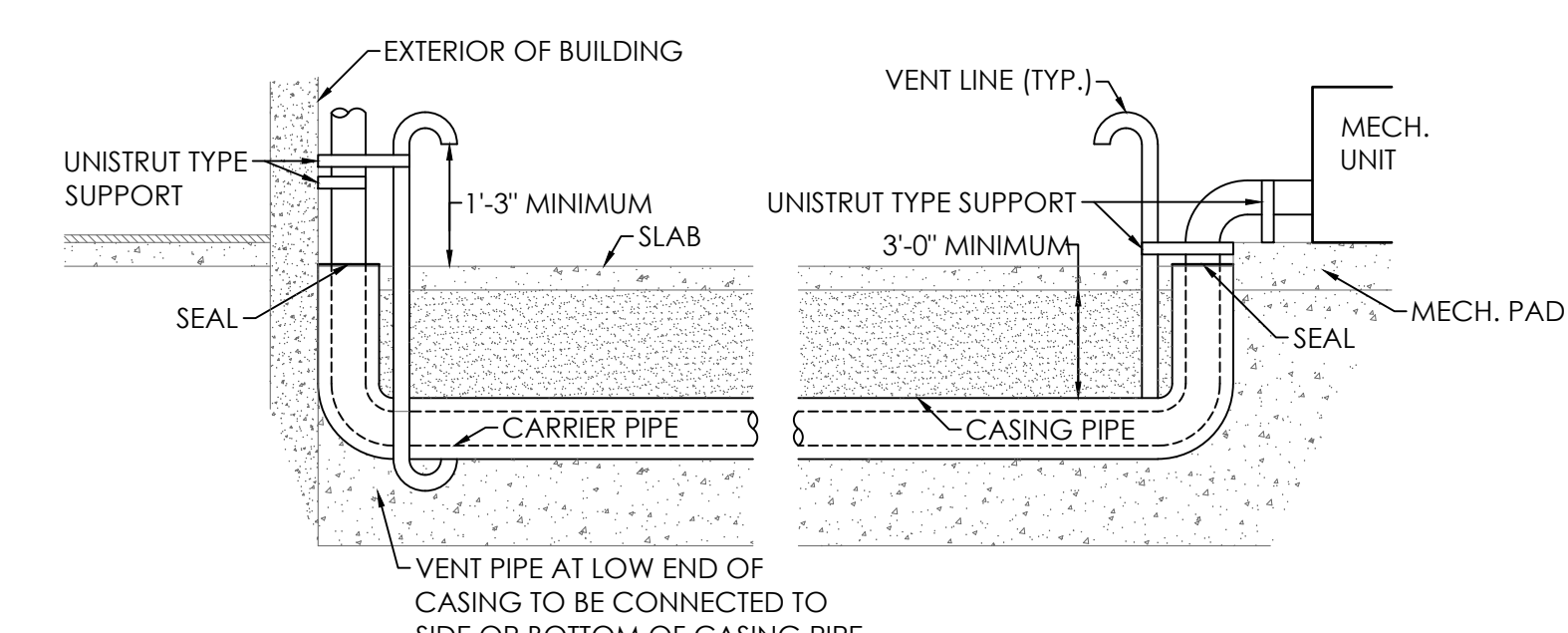
NOTE: ALL VENTS THRU ROOF (VTR) SHALL BE INSTALLED SO THAT THE TOP 3'-0" MINIMUM IS CAST IRON AT ROOF PENETRATION.
* PAINT VTR TO MATCH ROOF. PROVIDE SUPPORT AT ELBOW BELOW V.I.R.

VENT THRU ROOF DETAIL
NO SCALE

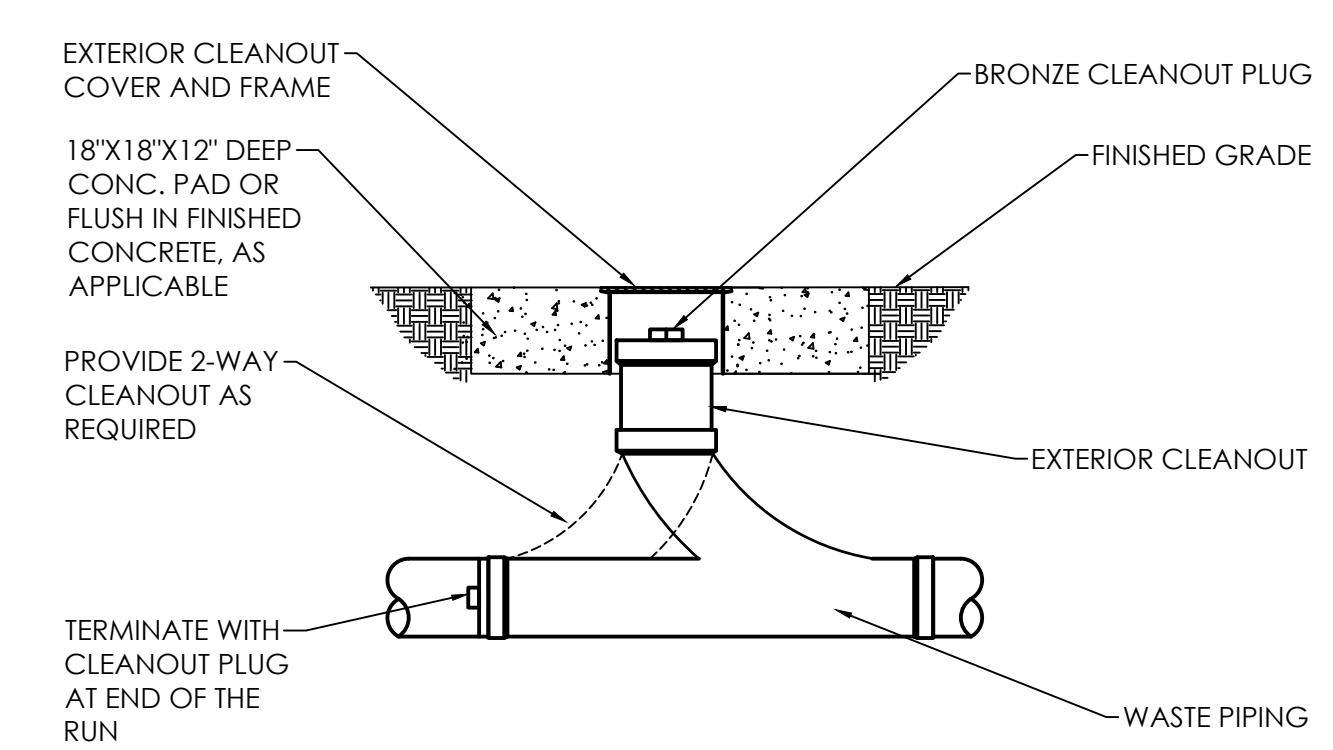


- NOTES:
1. APPLICATION: FOR STRUT-MOUNTED, 4-INCH AND SMALLER, COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION.
 2. ALLOWED FOR HORIZONTAL OR VERTICAL INSTALLATION.

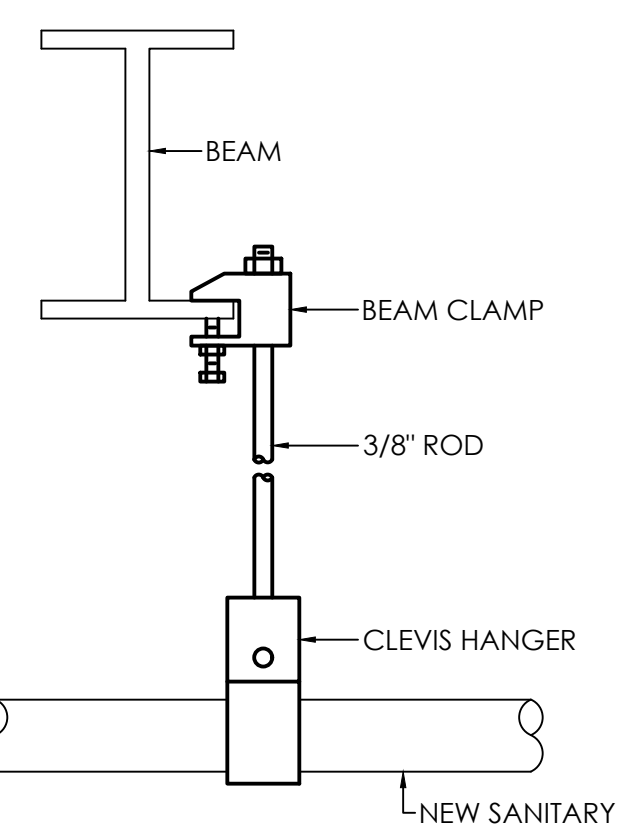
STRUT-MOUNTED PIPING SUPPORT INSULATION COUPLING DETAIL
NO SCALE



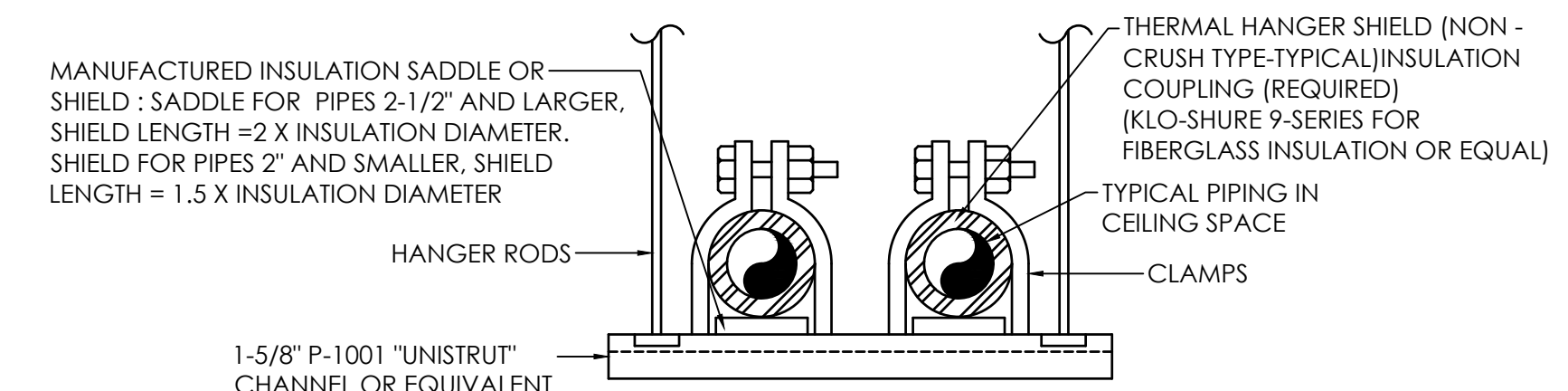
UNDERGROUND GAS SLEEVE AND VENT DETAIL
NO SCALE



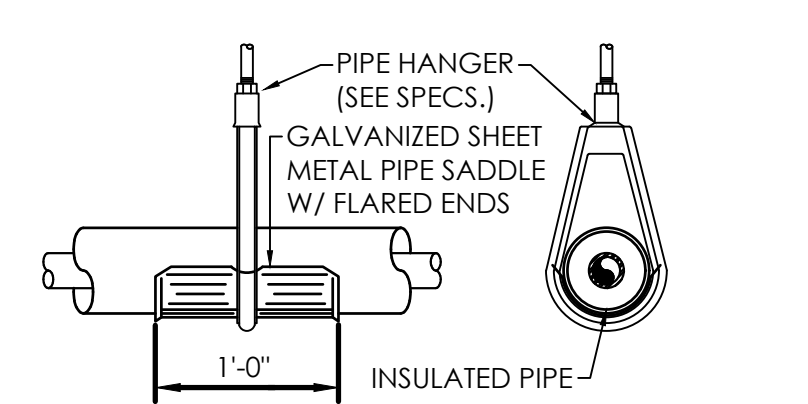
TYP. EXTERIOR CLEANOUT DETAIL
NO SCALE



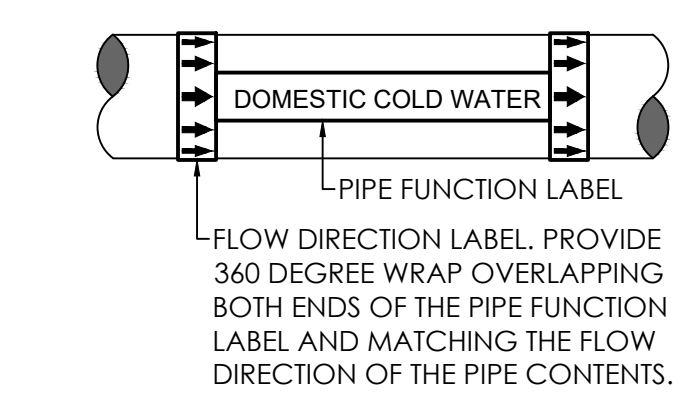
PIPE HANGER DETAIL
NO SCALE



SUSPENDED PIPING SUPPORT AT CEILING DETAIL
NO SCALE

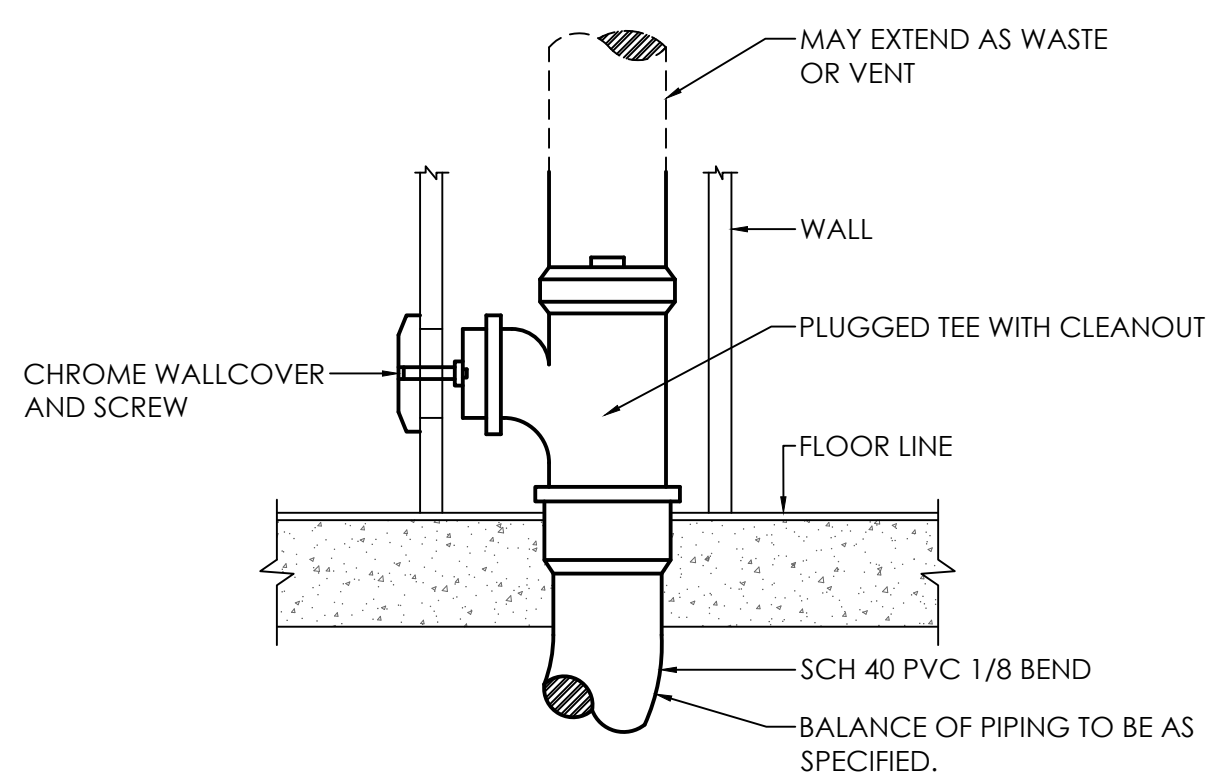


INSULATED PIPE HANGER
NO SCALE

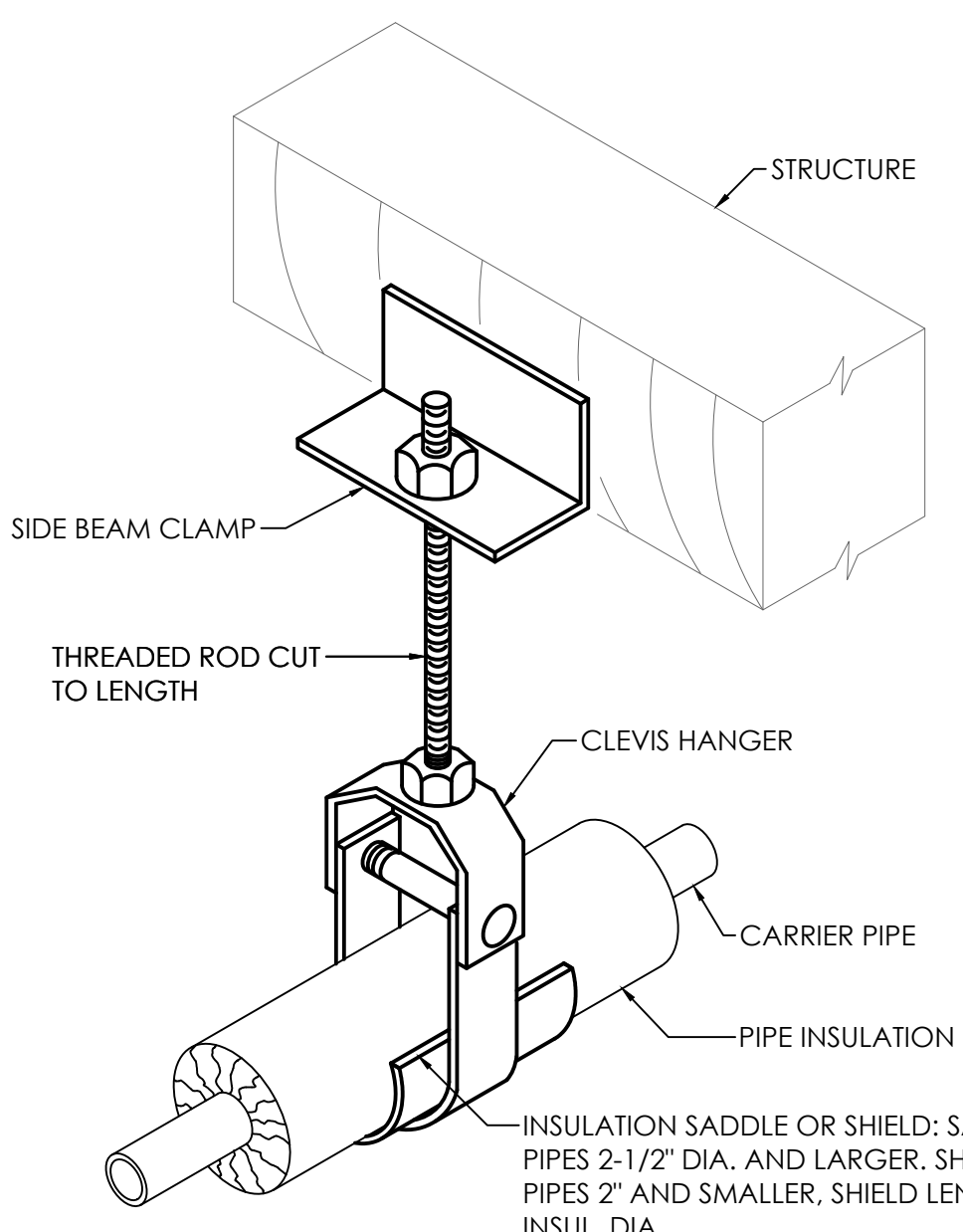


- NOTES:
- A. PROVIDE A PIPE LABEL FOR EACH PIPE FUNCTION.
 - B. PROVIDE AT LEAST ONE LABEL ON EACH PIPE AT EACH CHANGE OF DIRECTION.
 - C. PROVIDE LABELS ON MAXIMUM CENTERS FOR EVERY PIPE AS NOTED IN THE SPECIFICATIONS.
 - D. LABELS TO BE LOCATED IN AN EASILY VISIBLE LOCATION AS THEY WOULD NORMALLY BE SEEN (E.G. ON THE BOTTOM OF THE PIPES IN THE AIR AND ON THE TOP OR SIDES OF PIPES MOUNTED LOW).
 - E. LABELS SHALL BE COLOR CODED, PRE-PRINTED, WRAP AROUND TYPE - NO SELF-ADHESIVE VINYL.
 - F. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS AND LIST OF PIPE FUNCTIONS.

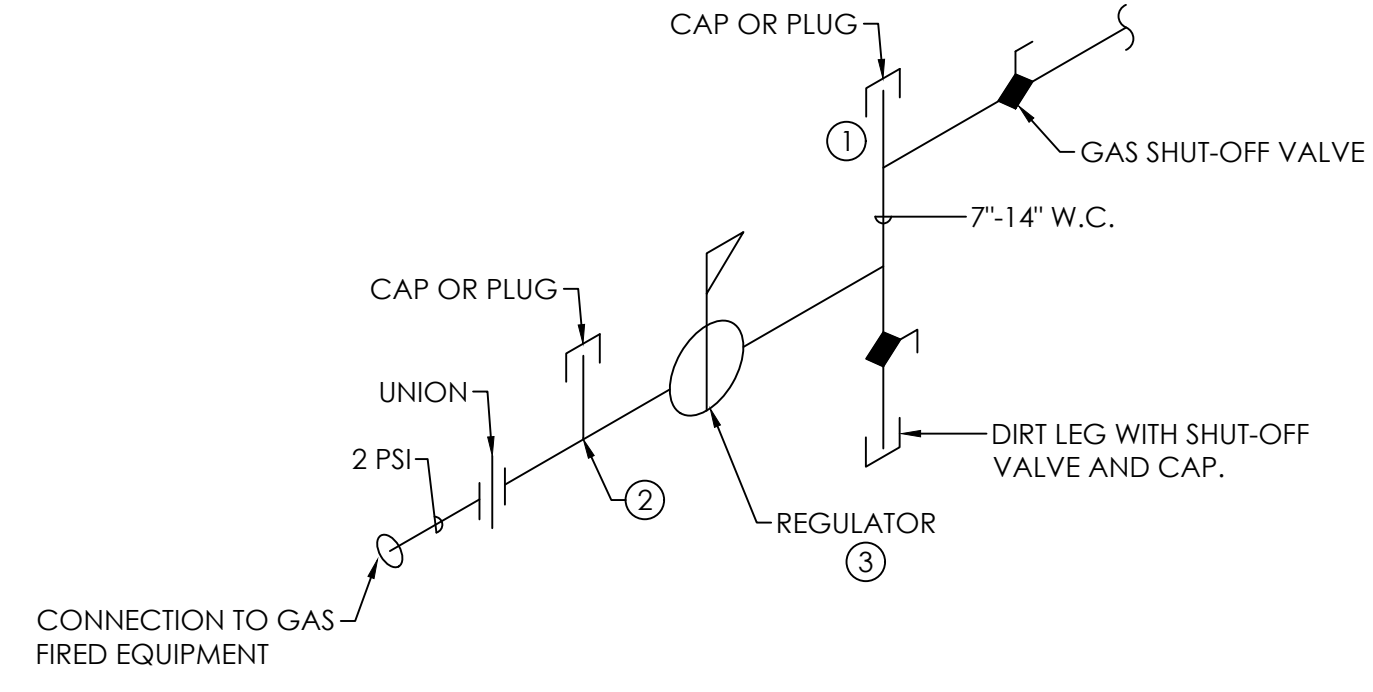
PIPING IDENTIFICATION DETAIL
NO SCALE



WALL CLEANOUT DETAIL
NO SCALE



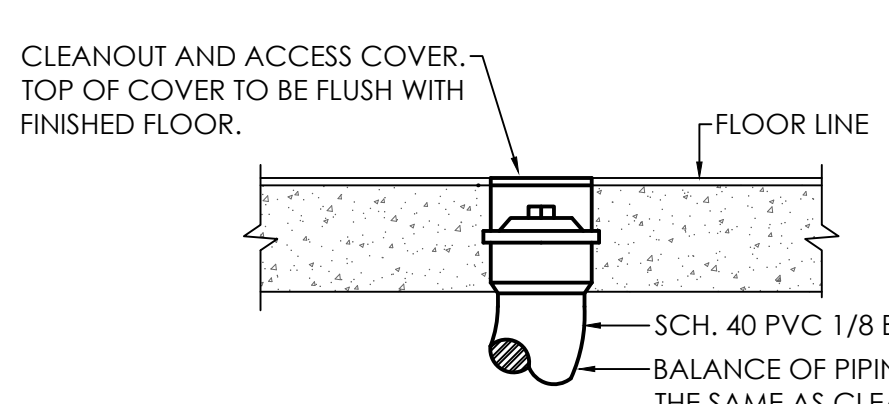
PIPE HANGER DETAIL
NO SCALE



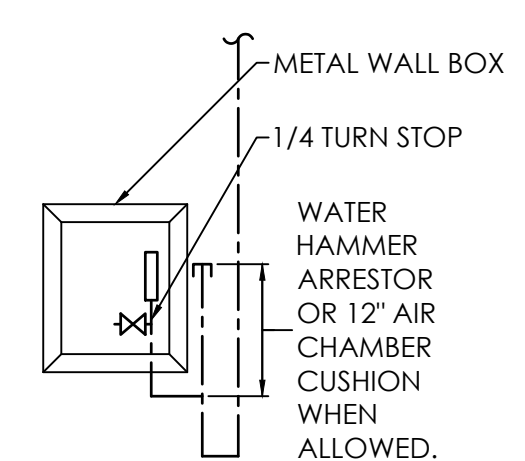
NOTE: THE GAS PRESSURE REGULATOR SHALL BE PROVIDED WITH EASY ACCESS, WHERE LOCATED INDOORS, THE REGULATOR SHALL BE VENTED TO THE ATMOSPHERE. VENT PIPING SHALL NOT BE SMALLER THAN THE VENT CONNECTION ON THE REGULATOR AND SHALL BE RUN INDEPENDENTLY, (SERVING ONLY A SINGLE DEVICE VENT.)

GAS PRESSURE REGULATOR DETAIL
(2 PSI TO 7" W.C.)
NO SCALE

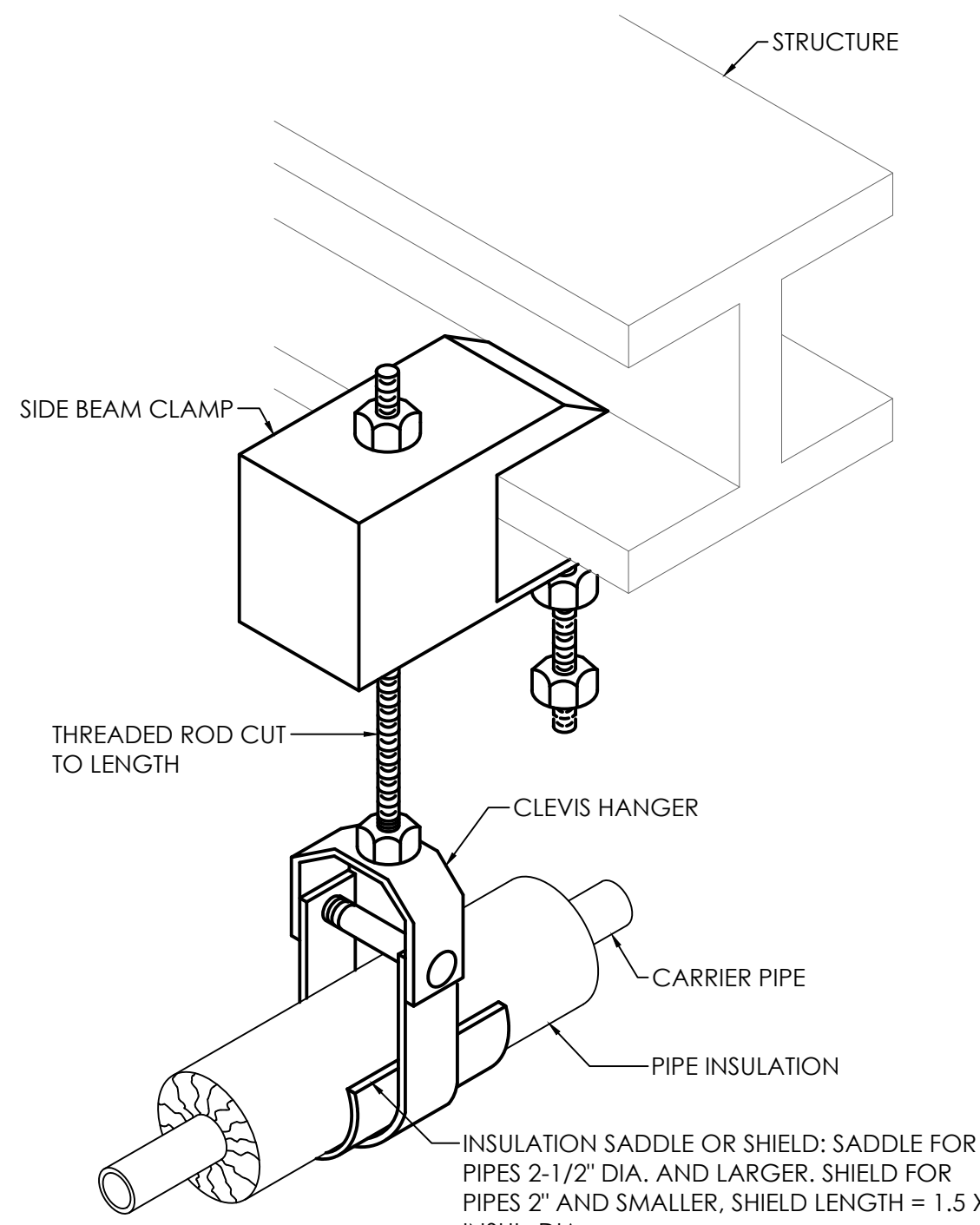
- NOTE LEGEND: (THIS DETAIL ONLY)
1. A TEE FITTING WITH ONE OPENING CAPPED OR PLUGGED SHALL BE INSTALLED BETWEEN THE REGULATOR AND ITS UPSTREAM SHUT-OFF VALVE. THE TEE FITTING SHALL BE POSITIONED TO ALLOW CONNECTION OF A PRESSURE GAUGE AND TO SERVE AS A SEDIMENT TRAP. (DIRT LEG)
 2. A TEE FITTING WITH ONE OPENING CAPPED OR PLUGGED SHALL BE INSTALLED NOT LESS THAN 10 PIPE DIAMETERS DOWNSTREAM OF THE REGULATOR OUTLET. THE TEE FITTING SHALL BE POSITIONED TO ALLOW CONNECTION OF A PRESSURE GAUGE.
 3. LINE GAS PRESSURE REGULATORS SHALL BE LISTED AS COMPLYING WITH ANSI Z 21.807, VENTLESS ACCEPTABLE (MAXITROL OR EQUAL)



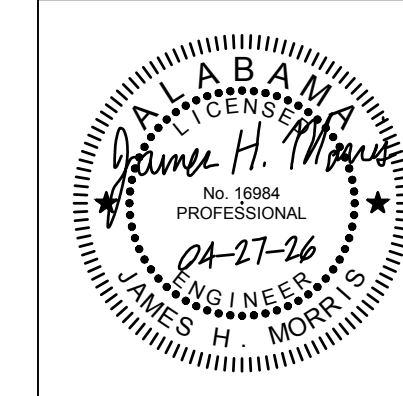
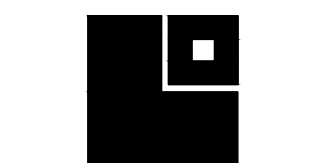
FLOOR CLEANOUT DETAIL (FCO)
NO SCALE



ICE MAKER WALL BOX DETAIL
NO SCALE



PIPE HANGER DETAIL
NO SCALE

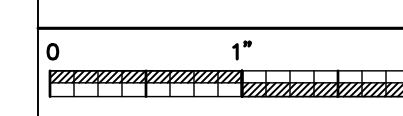


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| PROJ. MGR.: FGH |
| DRAWN: WKH |
| DATE: 04/27/2026 |
| REVISIONS |

JOB NO. 25-320

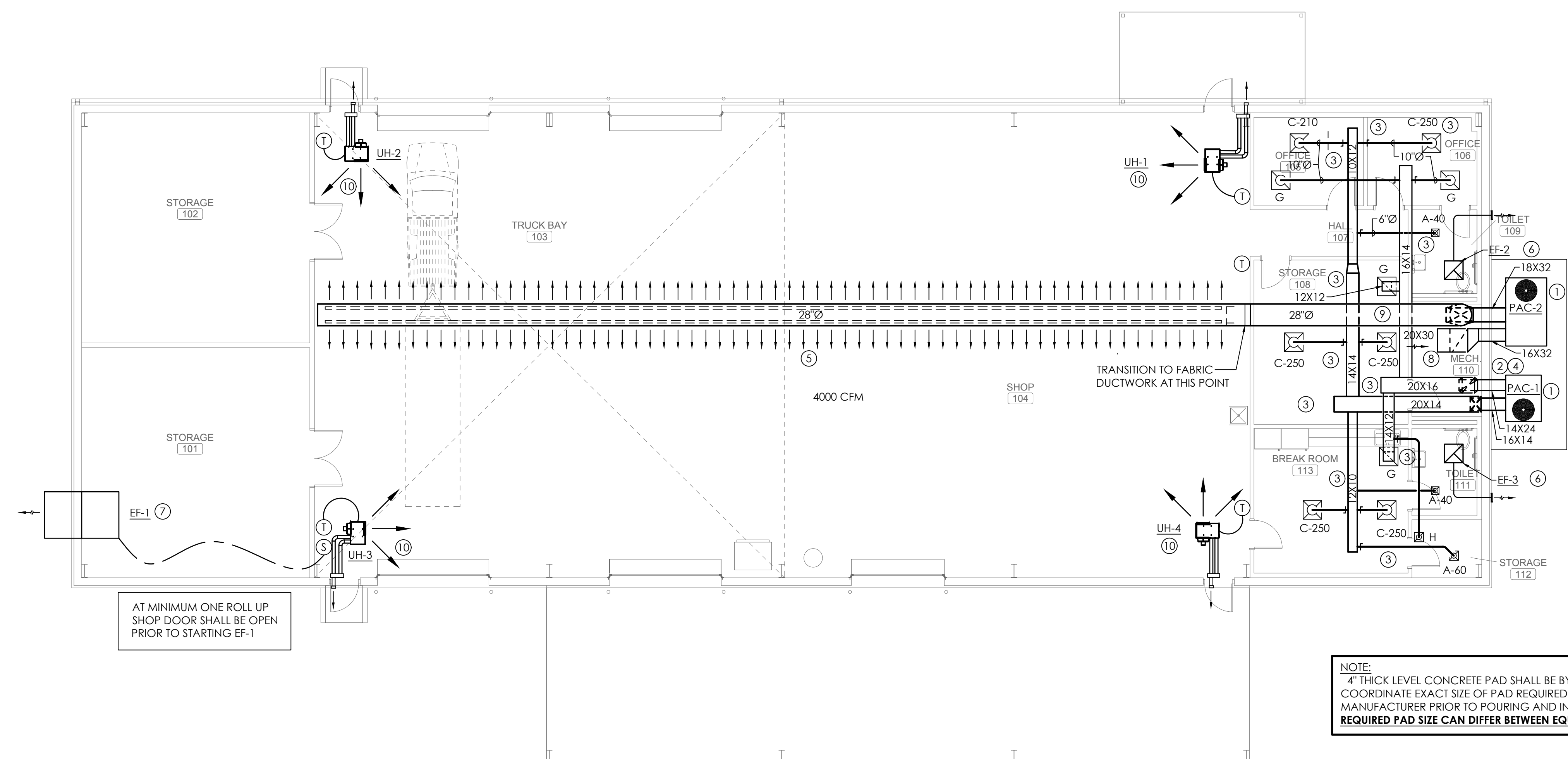
SHEET NO:

M1.1



- GENERAL NOTES: (THIS SHEET ONLY)
1. VERIFY LOCATION OF ALL THERMOSTATS AND WALL CONTROLS WITH OWNER PRIOR TO INSTALLATION.
 2. COORDINATE DUCTWORK WITH ALL TRADES TO AVOID CONFLICT. ANY COST OF RE-SIZING OR RE-ROUTING DUCTWORK TO COORDINATE WITH STRUCTURAL AND ALL OTHER TRADES SHALL BE AT THE MECHANICAL CONTRACTOR'S EXPENSE.
 3. ALL OUTSIDE AIR INTAKES SHALL BE MOUNTED AT LEAST 10'-0" AWAY FROM ALL EXHAUST AND PLUMBING VENTS.
 4. CONTRACTOR SHALL VISIT THE SITE AND NOTIFY THE ENGINEER IN WRITING OF ANY PROBLEMS OR DISCREPANCIES IN THE DRAWINGS BEFORE SUBMITTING A BID. ORDERING EQUIPMENT OR INSTALLATION OF EQUIPMENT AND ACCESSORIES.
 5. MECHANICAL CONTRACTOR SHALL PROVIDE PROPER SERVICE CLEARANCE FOR EACH PIECE OF MECHANICAL EQUIPMENT REQUIRING SERVICE.
 6. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE TRADES PRIOR TO SUBMITTING A BID. MECHANICAL CONTRACTOR SHALL PROVIDE A U.L. LISTED DYNAMIC FIRE DAMPER ASSEMBLY AT ALL DUCTWORK PENETRATIONS OF FIRE RATED WALLS.
 7. MECHANICAL CONTRACTOR SHALL PROVIDE WIND RESTRAINTS ON EACH PIECE OF GRADE MOUNTED MECHANICAL EQUIPMENT.
 8. PROVIDE UNI-STRUT DUCTWORK SUPPORTS ON CONCRETE PAD. FASTEN UNI-STRUT TO PAD.

- MECHANICAL NOTE LEGEND
1. PROVIDE AND INSTALL A COMPLETE OPERATIONAL PACKAGED UNIT WITH ALL RELATED CONTROLS, WIRING, ACCESSORIES, ETC. MOUNT UNIT ON NEW 4" THICK LEVEL CONCRETE PAD - PAD BY G.C. MAINTAIN FACTORY RECOMMEND SERVICE CLEARANCE AROUND UNIT.
 2. ALL EXTERIOR DUCTWORK SHALL BE STANDARD GALVANIZED WITH 2" FIBER-BOARD ON EXTERIOR OF DUCTWORK. PROVIDE 1" ELASTOMERIC LINER IN THE SUPPLY DUCTWORK AND 1" FIBER-GLASS LINER IN THE RETURN DUCTWORK. COVER EXTERIOR OF FIBER-BOARD WITH "ALUMAGUARD".
 3. RUN SUPPLY AND RETURN DUCT ABOVE CEILING GRID. CONNECT TO CEILING DIFFUSERS/GRILLES. RUN RETURN DUCT ABOVE SUPPLY. CONNECT TO RETURN REGISTERS AS NEEDED.
 4. PROVIDE WATER AND AIR-TIGHT SEAL AT ALL EXTERIOR WALL PENETRATIONS OF DUCTWORK, PIPING, ETC.
 5. PROVIDE AND INSTALL FABRIC DUCTWORK - DUCTWORK SHALL BE DUCTSOX VERONA WITH SKELECORE TENSIONING SYSTEM OR APPROVED EQUAL. DUCTWORK SHALL BE CONSISTENT DIAMETER. RUN DUCTWORK TIGHT TO BOTTOM OF STRUCTURE - COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLATION. COORDINATE DUCTWORK WITH LIGHTS TO AVOID CONFLICT AND ANGLE AIR DISCHARGE SO THAT AIR WILL NOT BLOW DIRECTLY ON LIGHTS OR HANGERS. MECHANICAL CONTRACTOR SHALL COORDINATE COLOR WITH OWNER PRIOR TO ORDERING AND INSTALLATION. PROVIDE TRIM FLANGE AT ALL WALL PENETRATIONS.
 6. PROVIDE COMPLETE AND OPERATIONAL EXHAUST FAN WITH ALL REQUIRED ACCESSORIES. RUN DUCT FROM EXHAUST FAN TO EXTERIOR WALL CAP AS SHOWN. SEE SCHEDULE FOR INFORMATION. PAINT WALL CAP TO MATCH BUILDING.
 7. PROVIDE A COMPLETE AND OPERATIONAL WALL MOUNTED EXHAUST FAN WITH MOTORIZED EXTERIOR WALL PROPELLER SHUTTER WITH END SEALS AND ALL REQUIRED ACCESSORIES FOR COMPLETE OPERATING FAN. PAINT WALL CAP TO MATCH BUILDING.
 8. RUN RETURN DUCT UP HIGH AND TERMINATE. INSTALL WIRE MESH OVER OPENING.
 9. RUN ROUND SPIRAL SUPPLY DUCT TIGHT TO STRUCTURE AND TRANSITION TO FABRIC DUCTWORK WHERE INDICATED ON DRAWING. PAINT TO MATCH FABRIC DUCT SELECTED BY OWNER.
 10. PROVIDE A COMPLETE AND OPERATIONAL GAS HEATER AND ALL REQUIRED ACCESSORIES. MAX MOUNTING HEIGHT 12'-0" AFF OR PER MANUFACTURER'S INSTRUCTIONS.



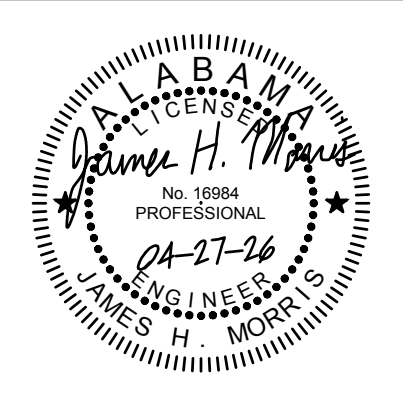
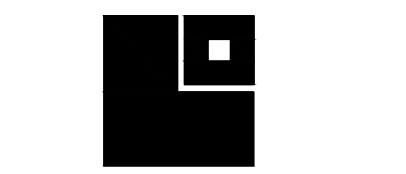
AT MINIMUM ONE ROLL UP SHOP DOOR SHALL BE OPEN PRIOR TO STARTING EF-1

NOTE:
4" THICK LEVEL CONCRETE PAD SHALL BE BY G.C. - G.C. SHALL COORDINATE EXACT SIZE OF PAD REQUIRED WITH PACKAGED UNIT MANUFACTURER PRIOR TO POURING AND INSTALLATION OF PAD.
REQUIRED PAD SIZE CAN DIFFER BETWEEN EQUIP. MANUFACTURERS.

SCALE: 1/8" = 1'-0"
0 4' 8' 16'

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

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www.jmorriseng.com PROJECT NO: 26-046



| MECHANICAL LEGEND | |
|-------------------|--|
| SYMBOL | DESCRIPTION |
| | DUCTWORK, DOUBLE LINE AND SINGLE LINE. DIMENSIONS ARE NET FREE AREA. |
| | SUPPLY DUCTWORK. DIMENSIONS ARE NET FREE AREA. |
| | RETURN OR EXHAUST DUCTWORK. DIMENSIONS ARE NET FREE AREA. |
| | TRANSITION. 4:1 RATIO FOR LOW PRESSURE, 7:1 RATIO FOR HIGH PRESSURE. |
| | ELBOW TURNED UP WITH TURNING VANES |
| | ELBOW TURNED DOWN WITH TURNING VANES |
| | ROUND DUCT TURNED DOWN |
| | ROUND DUCT TURNED UP |
| | RADIUS TYPE ELBOW WITH TURNING VANES. INSIDE RADIUS = WIDTH. |
| | SQUARE TYPE ELBOW WITH DOUBLE THICKNESS VANES. VANES REQUIRED IN ALL DUCTWORK ELBOWS UNLESS NOTED OTHERWISE. |
| | FIRE DAMPER (FD) OR SMOKE DAMPER (SD) ALL FD OR SD SHALL HAVE A 12X12 AP UNLESS NOTED OTHERWISE |
| | MANUAL VOLUME DAMPER (MVD) |
| | MOTOR OPERATED DAMPER (MOD) ALL MOD SHALL HAVE 12X12 AP UNLESS NOTED OTHERWISE |
| | DIFFUSER WITH HARD SUPPLY DUCTWORK AND FLEXIBLE DUCTWORK TO DIFFUSER |
| | WALL SUPPLY REGISTER |
| | WALL RETURN OR EXHAUST REGISTER |
| | RETURN OR EXHAUST REGISTER OR GRILLE |
| | RECTANGULAR TO ROUND OR TAKEOFF AND DAMPER W/STANDOFF BRACKET |
| | PIPE TURNED DOWN |
| | PIPE TURNED UP |
| | DUCT SMOKE DETECTOR |
| | THERMOSTAT |
| | HUMIDISTAT |
| | CARBON DIOXIDE SENSOR |

MECHANICAL GENERAL NOTES

- THESE DRAWINGS ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE AND OPERATIONAL HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF THE OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- REFER TO CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES. COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHT FIXTURES. IF A PARTICULAR ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING AND PRESENT IT TO THE ENGINEER FOR THEIR REVIEW AND/OR APPROVAL.
- ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH SQUARE TO ROUND TRANSITIONS. SPIN-IN FITTINGS AT THE END OF CAPPED DUCTS ARE NOT ACCEPTABLE.
- PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- ALL FAN MOTORS 1/8 HP AND ABOVE SHALL HAVE A DISCONNECT SWITCH MOUNTED AT THE FAN.
- ALL OPEN ENDED DUCTS SHALL BE REINFORCED WITH 1-1/2" X 1-1/2" X 1/8" GALVANIZED STEEL ANGLES BOLTED OR RIVETED 6" ON THE CENTER (MAX.) ALL AROUND THE EXTERIOR PERIMETER OF THE DUCT.
- MOUNT THERMOSTATS 48" A.F.F. UNLESS NOTED OTHERWISE. SEE MECHANICAL DRAWINGS FOR LOCATIONS. WHERE THERE IS A CONFLICT OF LOCATIONS BETWEEN THE DRAWINGS, NOTIFY THE ARCHITECT IMMEDIATELY. VERIFY EXACT LOCATION BEFORE INSTALLATION.
- ALL BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE DIFFUSER SERVED UNLESS NOTED OTHERWISE.
- PROVIDE INTERNAL INSULATION (1" THICK FIBERGLASS) FOR SUPPLY, RETURN, AND OUTDOOR AIR DUCTS WITHIN 20' OF EACH INDOOR AIR HANDLING UNIT (UNLESS NOTED OTHERWISE). FAN, ETC. ALL OTHER DUCTWORK SHALL BE INSULATED WITH 2" THICK, FOIL BACKED 3/4 LB. DENSITY BLANKET INSULATION UNLESS NOTED OTHERWISE.
- CONDENSATE DRAIN LINES RUNNING HORIZONTALLY SHALL BE SLOPED 1/4" PER FOOT DOWN IN THE DIRECTION OF FLOW AS INDICATED. ALL CONDENSATE LINES SHALL BE INSULATED.
- WHERE MECHANICAL EQUIPMENT OCCURS ABOVE A LIFT-OUT ACOUSTICAL CEILING PANEL IDENTIFY THE PANEL WITH A 3/8" #8 ROUND HEAD SELF-THREADING SCREW, SCREWED INTO THE PANEL WITH ONLY THE HEAD SHOWING. BEFORE INSERTING, PAINT HEAD OF SCREW WITH APPROPRIATE COLOR AS SPECIFIED UNDER PIPE IDENTIFICATION AND COLOR CODING.
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR. ADJUST FOR LINER.
- IN ADDITION TO OFFSETS IN DUCTWORK SHOWN, PROVIDE OFFSETS REQUIRED TO MAINTAIN TOP OF DUCTWORK AND PIPING TIGHT TO STRUCTURE.
- DUCTS AND EQUIPMENT WITH STANDING BRACES SHALL BE ARRANGED SO THAT THE BRACES WILL NOT BE OVER LIGHTS OR UNDER BEAMS IN AREAS WHERE THE CLEARANCE BETWEEN LIGHTS AND BEAMS IS LIMITED.
- EACH CEILING OR WALL DIFFUSER INDICATED SHALL HAVE RECTANGULAR TO ROUND TAKE-OFF WITH STANDING BRACKET AND MANUAL VOLUME CONTROL DAMPER AT THE SHEET METAL TRUNK DUCT SUCH THAT AIR CAN BE BALANCED.
- DUCTWORK SHALL BE IN ACCORDANCE WITH THE LATEST SMACNA STANDARD. SEAL ALL JOINTS WITH HARD-CAST PRIOR TO INSULATING.
- VERIFY EXACT LOCATION OF CONTROLS AND THERMOSTATS WITH ARCHITECT BEFORE WIRING AND INSTALLATION.
- ALL WALL SUPPLY AND RETURN AIR GRILLES SHALL BE CENTERED SYMMETRICALLY.
- COORDINATE THE LOCATION OF ALL FLOOR DRAINS REQUIRED FOR MECHANICAL EQUIPMENT WITH PLUMBING CONTRACTOR TO INSURE PROPER LOCATION FOR SERVICE TO UNIT.
- THE MECHANICAL CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ALL WALL, FLOOR, AND ROOF OPENINGS (DIMENSIONS AND LOCATIONS). THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OPENINGS IN THE STRUCTURE. COORDINATE THE LOCATION OF FLOOR DRAINS WITH MECHANICAL EQUIPMENT PRIOR TO ROUGHING IN OR PLACEMENT OF MECHANICAL EQUIPMENT.

| AIR DISTRIBUTION SCHEDULE | | | | | |
|---------------------------|-----------------|---------------|---------------|---|--------------|
| SYMBOL | MAX. N.C. SONES | MAX. VEL. FPM | MODEL | DESCRIPTION | REMARKS |
| A | 25 | 500 | TITUS TDCA-AA | LOUVERED FACE DIFFUSER (6"R NECK UNLESS NOTED OTHERWISE) | 1,2,3,4,5,6 |
| B | 25 | 500 | TITUS TDCA-AA | LOUVERED FACE DIFFUSER (8"R NECK UNLESS NOTED OTHERWISE) | 1,2,3,4,5,7 |
| C | 25 | 500 | TITUS TDCA-AA | LOUVERED FACE DIFFUSER (10"R NECK UNLESS NOTED OTHERWISE) | 1,2,3,4,5,8 |
| D | 25 | 500 | TITUS TDCA-AA | LOUVERED FACE DIFFUSER (12"R NECK UNLESS NOTED OTHERWISE) | 1,2,3,4,5,9 |
| E | 25 | 500 | TITUS TDCA-AA | LOUVERED FACE DIFFUSER (14"R NECK UNLESS NOTED OTHERWISE) | 1,2,3,4,5,10 |
| G | 25 | 500 | TITUS 50F | 1/2" X 1/2" X 1/2" EGGCRATE GRILLE (24"X24" UNLESS NOTED OTHERWISE) | 1,2,3,4,5 |
| H | 25 | 500 | TITUS 50F | 1/2" X 1/2" X 1/2" EGGCRATE GRILLE (12"X12" UNLESS NOTED OTHERWISE) | 1,2,3,4,5 |
| I | 25 | 500 | TITUS 300FS | SIDEWALL SUPPLY REGISTER | 1,2,4,5,11 |
| J | 25 | 500 | TITUS 350FL | SIDEWALL RETURN REGISTER | 1,2,4,5,12 |

- SCHEDULE NOTES:
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION.
 - PROVIDE OFF-WHITE FINISH. VERIFY WITH ARCHITECT PRIOR TO ORDERING.
 - EXTEND 24" X 24" PANEL IN LAY-IN CEILING. SURFACE MOUNT IN GYP. BOARD CEILING.
 - PROVIDE OPPOSED BLADE DAMPER WITH EXTERNAL ADJUSTMENT.
 - PROVIDE TRANSITION ADAPTER AS REQUIRED. ROUND TO REC. OR REC. TO ROUND TO ROUND.
 - PROVIDE 6" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 8" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 10" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 12" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 14" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - INSTALL WITH FRONT BLADES PERPENDICULAR TO FLOOR.
 - INSTALL WITH FRONT BLADES PARALLEL TO FLOOR.

| PACKAGED HEAT PUMP UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-----------|------------------|------|-----------------------------------|------------|----------------|----------|----------------|----------|------------------|------------|----------------------|------------|--------------|---------|--------------------------------|-----------|------|----------|
| SYMBOL | EVAP FAN | | | COOLING MIN. (1) | | | | HOT GAS REHEAT | | HEATING MIN. (2) | | | ELECTRICAL | ACOUSTICS dB | REMARKS | | | | |
| | TOTAL CFM | OUTSIDE AIR MIN. | MAX. | EXT. S.P. INCHES H ₂ O | DRIVE TYPE | FAN TYPE | MOTOR HP | TOTAL MBH | SEN. MBH | EER/SEER (2) | TOTAL CAP. | MOISTURE REMOVAL GPH | | | | REFRIGERANT CHARGE lbs of 454B | TOTAL MBH | HSPF | ELEC. KW |
| PAC-1 | 1600 | 80 | 80 | 0.5 | DIRECT | FC CENTRIFUGAL | 1 | 49.53 | 38.01 | 11.4/3 | 23.64 | 0.89 | 8.6 | 42.73 | 8.2 | 12 | 208/3/60 | 86 | 1,2,3 |
| PAC-2 | 4000 | 400 | 400 | 0.5 | DIRECT | 8C PLENUM | 3 | 123.34 | 94.59 | 11.2/1 | 77.61 | 4.39 | 9.0 | 0 | 0 | 0 | 208/3/60 | 86 | 1,2,3 |

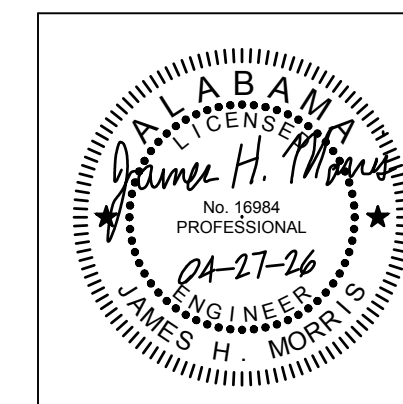
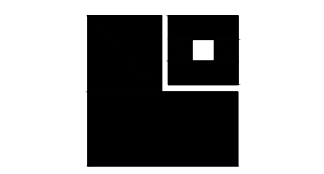
- PACKAGED GAS/ELECTRIC ROOFTOP UNIT SCHEDULE NOTES:
- CAPACITY BASED ON ENR 80 DEGREES F. EWB 67 DEGREES F. & AMBIENT 95 DEGREES F.
 - RATED IN ACCORDANCE W/ARI STANDARD 210-81.
 - BASED ON TRANE PRECEDENT PACKAGED ROOFTOP. REFRIGERANT R-454B. SYMBOL 700. DIGITAL DISPLAY THERMOSTAT WALL MOUNTED, HUMIDITY WALL MOUNTED SENSOR, LOCKABLE COVER ON ALL CONTROLS. PROVIDE SINGLE POINT POWER CONNECTION, MODULATING HOT GAS REHEAT AND FACTORY INSTALLED DISCONNECT SWITCH, MOTORIZED OUTDOOR AIR, POWERED (15A) CONVENIENCE OUTLET AND FACTORY HAIL GUARD. PROVIDE CONDENSATE DRAIN PAN AND 2" PLATED MERV 8 FILTERS.

| GAS FIRED UNIT HEATER SCHEDULE | | | | | | | |
|--------------------------------|------|----------|------------|--------------|---------------|---------|---------|
| SYMBOL | CFM | MOTOR HP | TEMP. RISE | INPUT BTU/HR | OUTPUT BTU/HR | POWER | REMARKS |
| UH-1 | 1490 | 1/6 | 50 | 100,000 | 82,000 | 120/160 | 1,2 |
| UH-2 | 1490 | 1/6 | 50 | 100,000 | 82,000 | 120/160 | 1,2 |
| UH-3 | 1490 | 1/6 | 50 | 100,000 | 82,000 | 120/160 | 1,2 |
| UH-4 | 1490 | 1/6 | 50 | 100,000 | 82,000 | 120/160 | 1,2 |

- GAS FIRED UNIT HEATER SCHEDULE NOTES:
- BASED ON MOORE HDS SEPARATED COMBUSTION PROPELLER UNIT HEATER. PROVIDE ALUMINIZED STEEL HEAT EXCHANGER AND BURNER, DIRECT SPARK IGNITION AND FINGER PROOF FAN GUARD. SIZE VENT, SIZE COMBUSTION AIR DUCT AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. MAX. MOUNTING HEIGHT 12'-0". SEE "GAS FIRED UNIT HEATER DETAIL" AND "CONCENTRIC GAS VENT THRU WALL DETAIL" THIS SHEET.
 - PROVIDE WALL MOUNTED PROGRAMMABLE THERMOSTAT WITH INSULATED SUB-BASE. SENSOR SHALL BE SET AT 65-DEG. ADJ. DURING OCCUPIED TIMES AND 55-DEG. ADJ. DURING UNOCCUPIED TIMES - VERIFY THESE SETTINGS WITH OWNER PRIOR TO SETTING.

| EFFECTIVE DISPERSAL VOLUME CHARGE(EDVC) IN COMPLIANCE WITH ASHRAE STANDARD 15 SECTION 7.6.1.1 (REFRIGERATION SYSTEMS WITH AIR CIRCULATION) - EDVC = V _{eff} x LFL x CF x F _{occ} | | | | | | | | | | | | |
|--|-------------|-------------------------------|-----------------|--------------|-------------|------------------|------|-----|------------------|--------|-----------------------------|--------------------------|
| TAG | REFRIGERANT | RELEASABLE REFRIGERANT CHARGE | SPACE(S) SERVED | AREA (SQ.FT) | HEIGHT (FT) | V _{eff} | LFL | CF | F _{occ} | EDVC | COMPLIES WITH ASHRAE STD 15 | REMEDY FOR NONCOMPLIANCE |
| PAC-1 | | | BREAK ROOM 113 | 244 | 9 | 2196 | | | | | | |
| | | | STORAGE 108 | 268 | 9 | 2412 | | | | | | |
| | | | Office 105 | 100 | 9 | 900 | | | | | | |
| | | | Office 106 | 122 | 9 | 1098 | | | | | | |
| | | | STORAGE 112 | 44 | 9 | 396 | | | | | | |
| PAC-1 TOTAL | R-454b | 8.6 | | | | 7002 | 18.3 | 0.5 | 1 | 64.07 | Yes | |
| PAC-2 | | | SHOP 104 | 5129 | 14 | 71806 | | | | | | |
| PAC-2 TOTAL | R-454b | 9 | | | | 71806 | 18.3 | 0.5 | 1 | 657.02 | Yes | |

| 2021 INTERNATIONAL MECHANICAL CODE REQUIRED OUTDOOR VENTILATION AIR TABLE 403.3 | | | | | | | | | | | | | | |
|---|----------------|--------------------------------------|---------------------------|---------------------|--------------------------------|---|-----------------------------------|-----------------------------------|---------------------------------------|-----------------------|------------------------------|--|-------------------|-------------------------------|
| UNIT TAG | ROOM | ROOM CLASSIFICATION PER TABLE 403.3 | AREA FT ² (Az) | EST. OCC. LOAD (Pz) | OCC. O.A. RATE PER PERSON (Rp) | AREA O.A. RATE PER FT ² (Ra) | TOTAL OCC. O.A. RATE (CFM) (RpPz) | TOTAL AREA O.A. RATE (CFM) (RaAz) | TOTAL O.A. (CFM) (RpPz)+(RaAz)= (Vbz) | ZONE O.A. (CFM) (Voz) | O.A. INTAKE FLOW (CFM) (Vot) | ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) | Exhaust Rate S.F. | Exhaust Rate Plumbing Fixture |
| PAC-1 | BREAK ROOM 113 | Office Spaces | 244 | 1.22 | 5 | 0.06 | 6.1 | 14.64 | 20.74 | 20.74 | 20.74 | 1 | 0 | 0 |
| | STORAGE 108 | Storage Rooms | 268 | 0 | 0 | 0.12 | 0 | 32.16 | 32.16 | 32.16 | 32.16 | 1 | 0 | 0 |
| | Office 105 | Office Spaces | 100 | 0.5 | 5 | 0.06 | 2.5 | 6 | 8.5 | 8.5 | 8.5 | 1 | 0 | 0 |
| | Office 106 | Office Spaces | 122 | 0.61 | 5 | 0.06 | 3.05 | 7.32 | 10.37 | 10.37 | 10.37 | 1 | 0 | 0 |
| | STORAGE 112 | Storage Rooms | 44 | 0 | 0 | 0.12 | 0 | 5.28 | 5.28 | 5.28 | 5.28 | 1 | 0 | 0 |
| | TOILET 111 | Toilet Rooms and bathrooms (private) | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 70 |
| | TOILET 109 | Toilet Rooms and bathrooms (private) | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 70 |
| | | | | | | | | | | | 77.05 | | | |
| PAC-1 | SHOP 104 | Warehouses | 5129 | 2 | 10 | 0.06 | 20 | 307.74 | 327.74 | 327.74 | 327.74 | 1 | 0 | 0 |
| | STORAGE 102 | Warehouses | 607 | 0 | 10 | 0.06 | 0 | 36.42 | 36.42 | 36.42 | 36.42 | 1 | 0 | 0 |
| | STORAGE 101 | Warehouses | 607 | 0 | 10 | 0.06 | 0 | 36.42 | 36.42 | 36.42 | 36.42 | 1 | 0 | 0 |
| | | | | | | | | | | | 400.58 | | | |

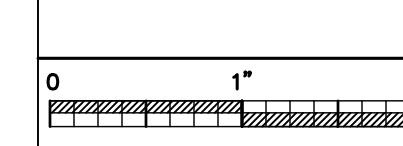


| | |
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| DRAWN: | WKH |
| DATE: | 04/27/2026 |
| REVISIONS: | |

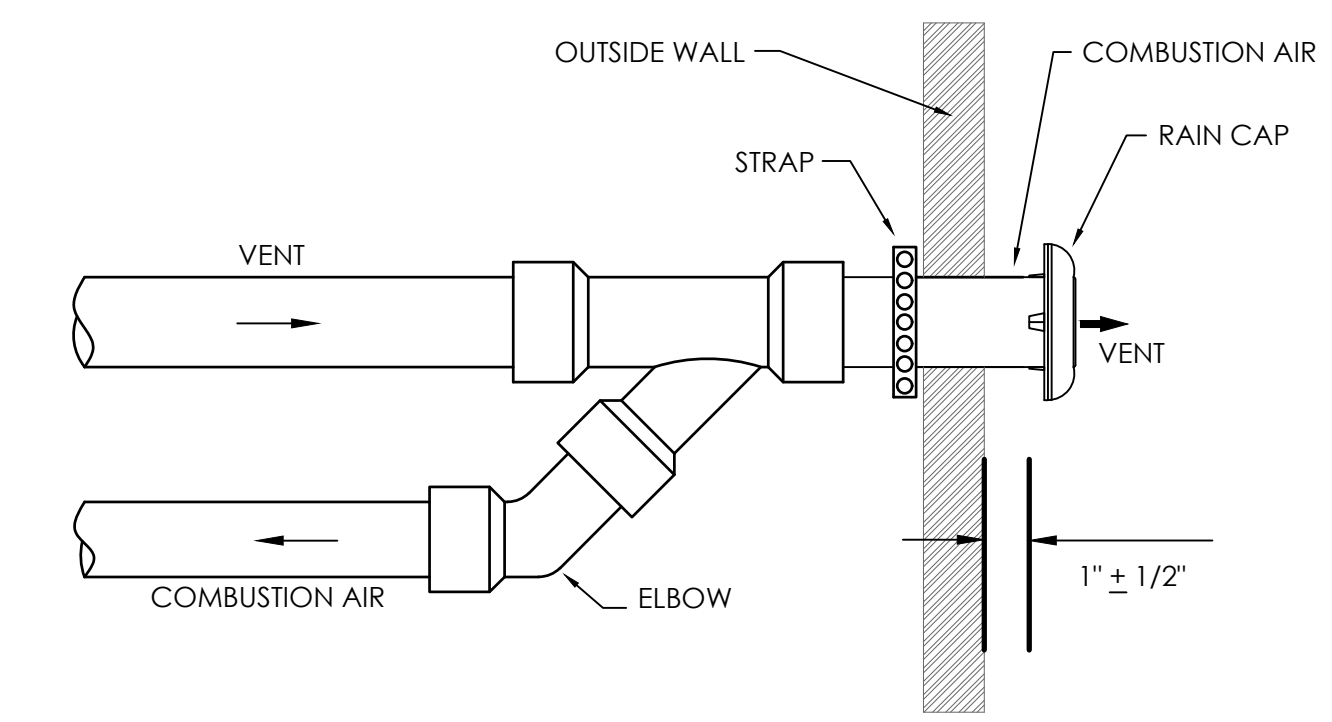
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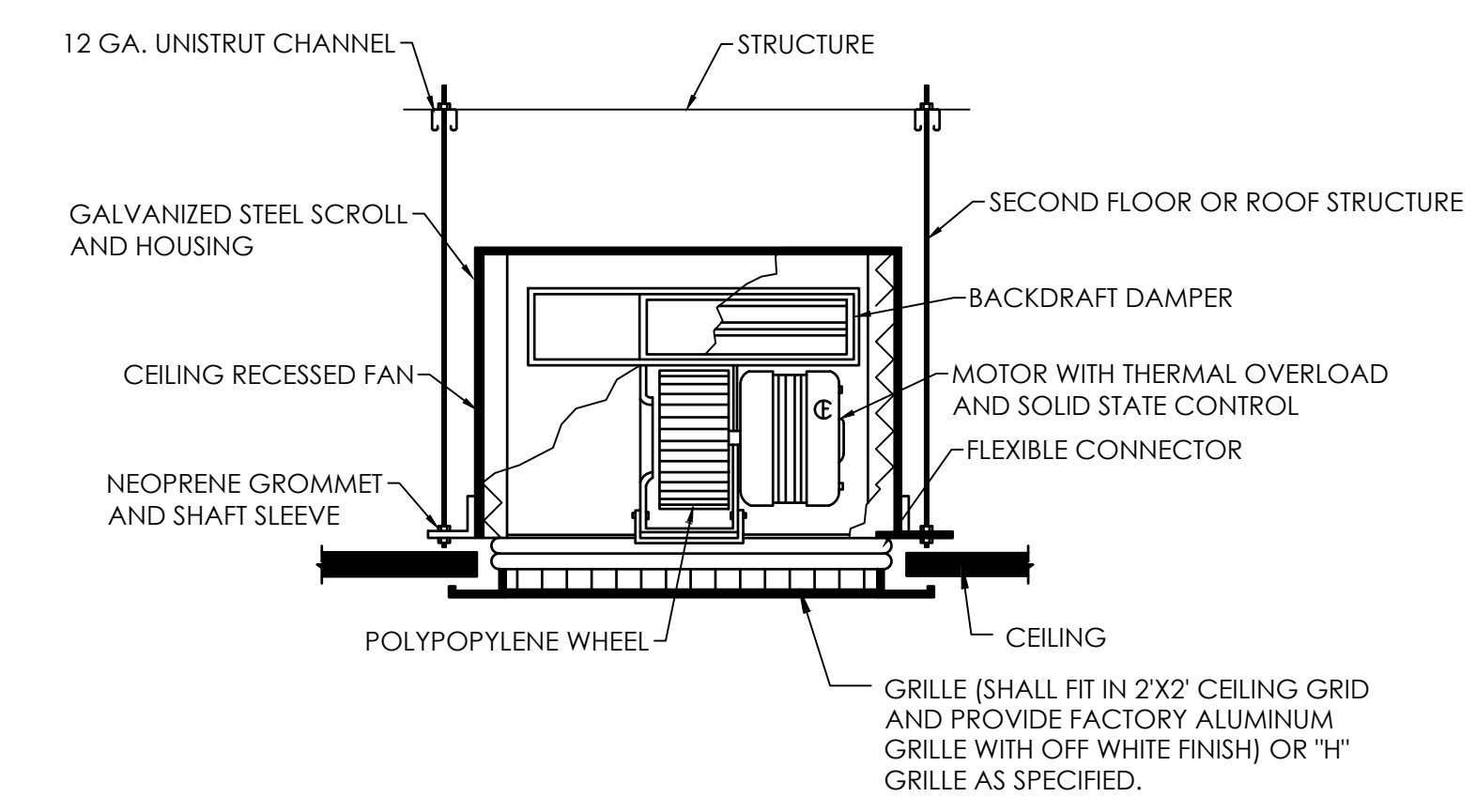
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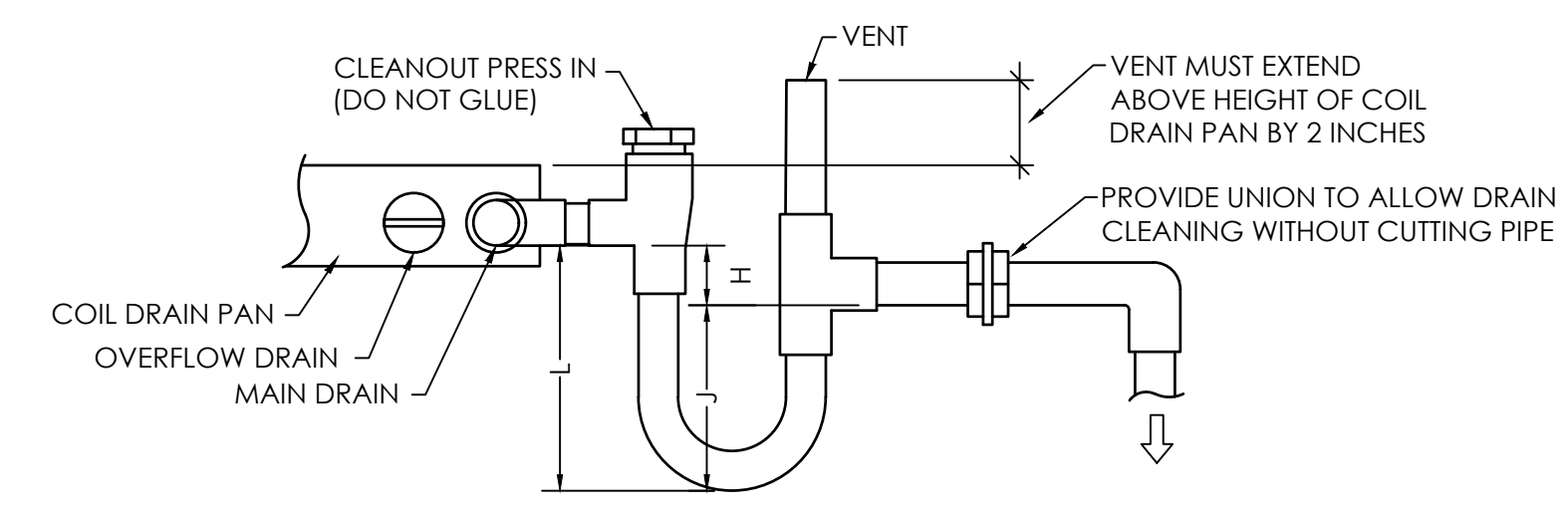
MORRIS DAVIS ENGINEERING LLC
 903 SOUTH PERRY STREET
 MONTGOMERY, AL 36104
 T. (334) 269-0526
 www.jmorriseng.com PROJECT NO: 26-046



CONCENTRIC GAS VENT THRU WALL DETAIL
NO SCALE TYP. QUH-1.2,3,4,5



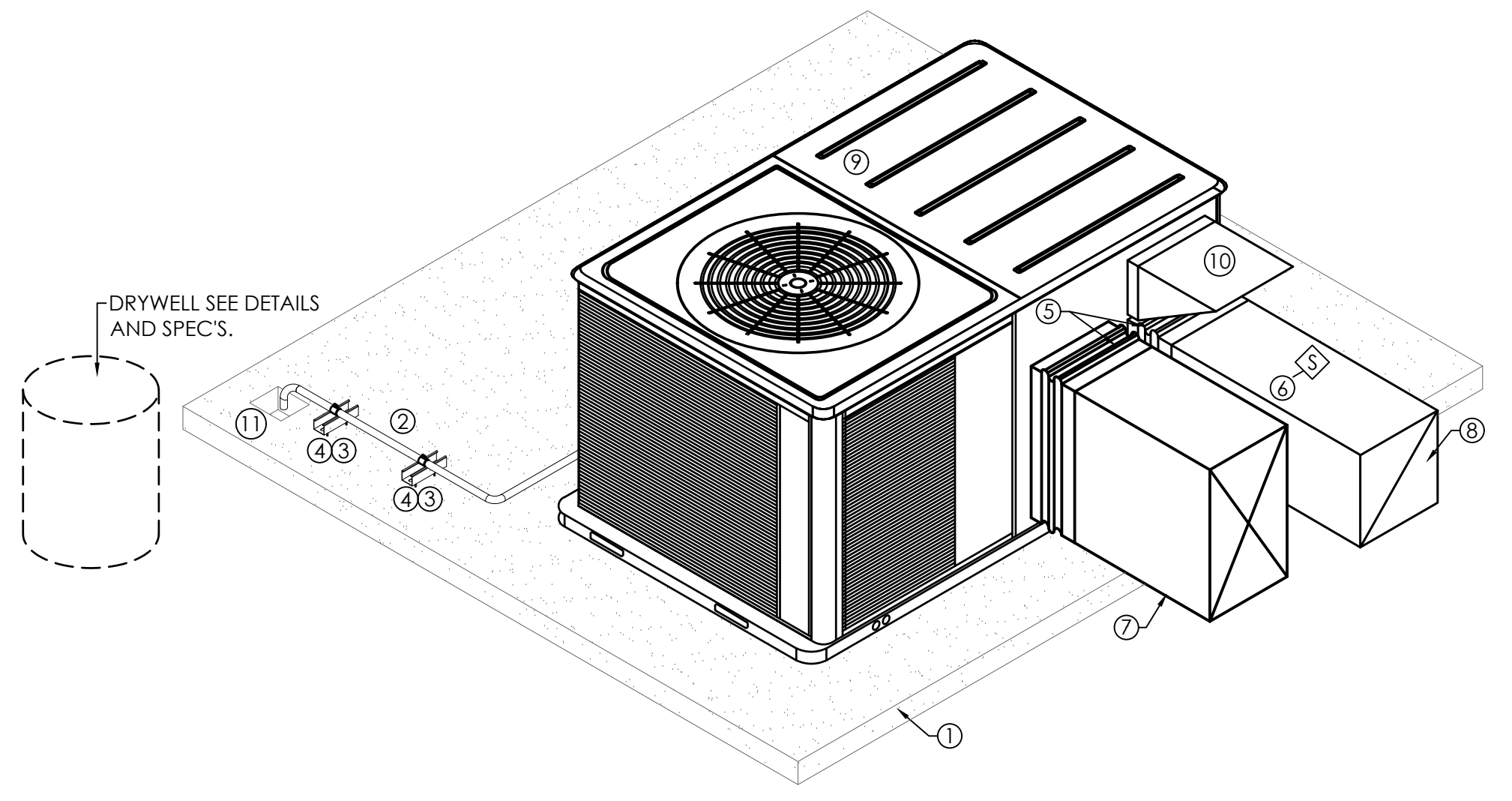
CEILING MOUNTED EXHAUST FAN DETAIL
NO SCALE (TYP. ALL EXHAUST FANS)



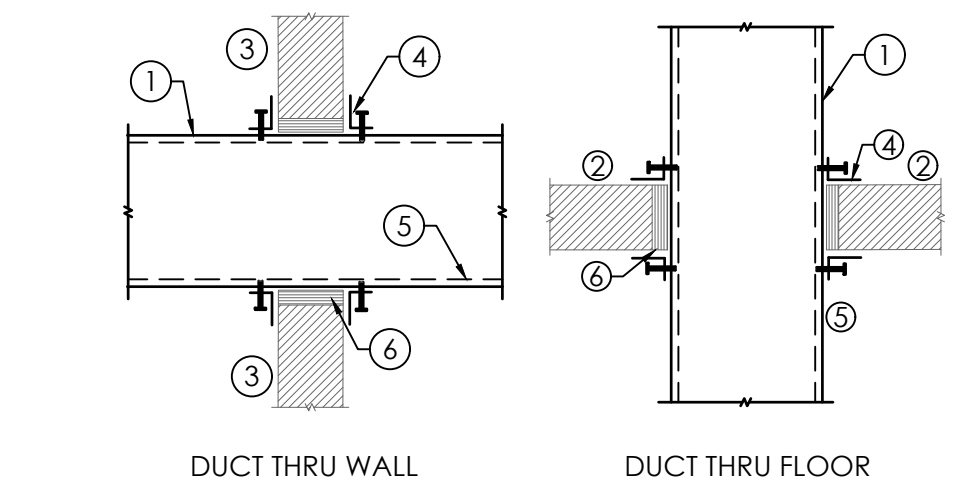
L = H + J + PIPE DIAMETER WHERE:
 H = 1 INCH FOR EACH INCH OF NEGATIVE PRESSURE PLUS 1 INCH
 J = 1/2 H

NOTE: ROUTE DRAIN TO NEAREST HUB DRAIN OR ROOF DRAIN. SEE PLUMBING. DRAIN SHALL NOT DISCHARGE ONTO ROOF.

CONDENSATE DRAIN DETAIL
NO SCALE

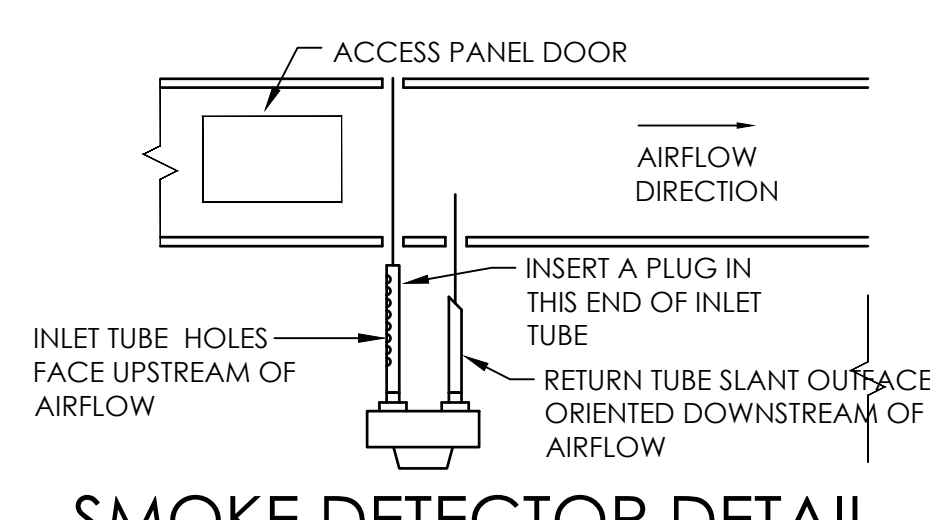


PACKAGED UNIT INSTALLATION DETAIL
NO SCALE

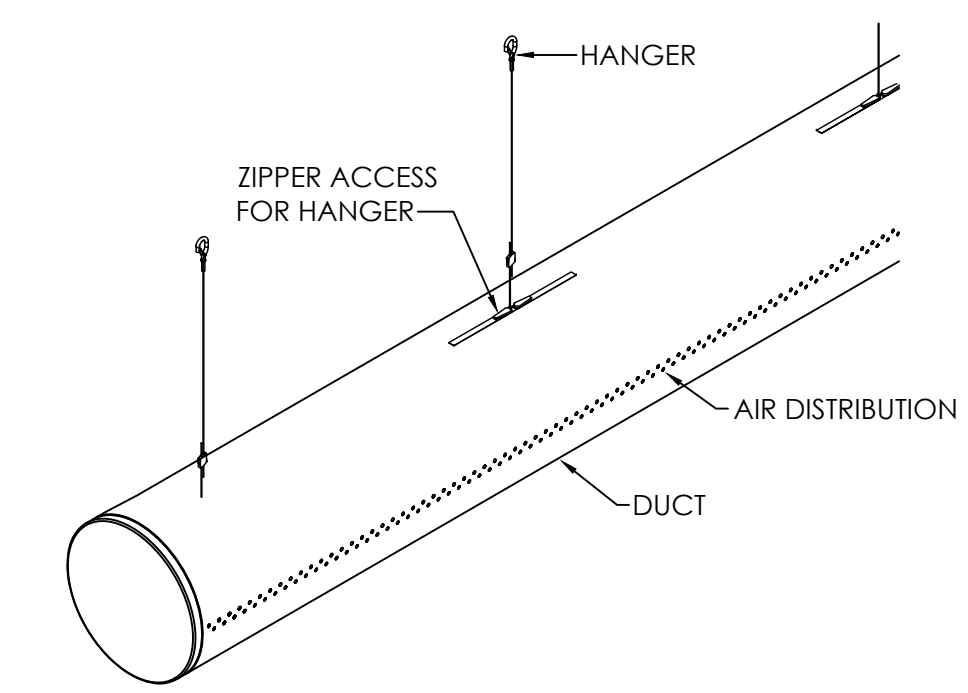


DUCT THRU NON-RATED STRUCTURE DETAIL
NO SCALE

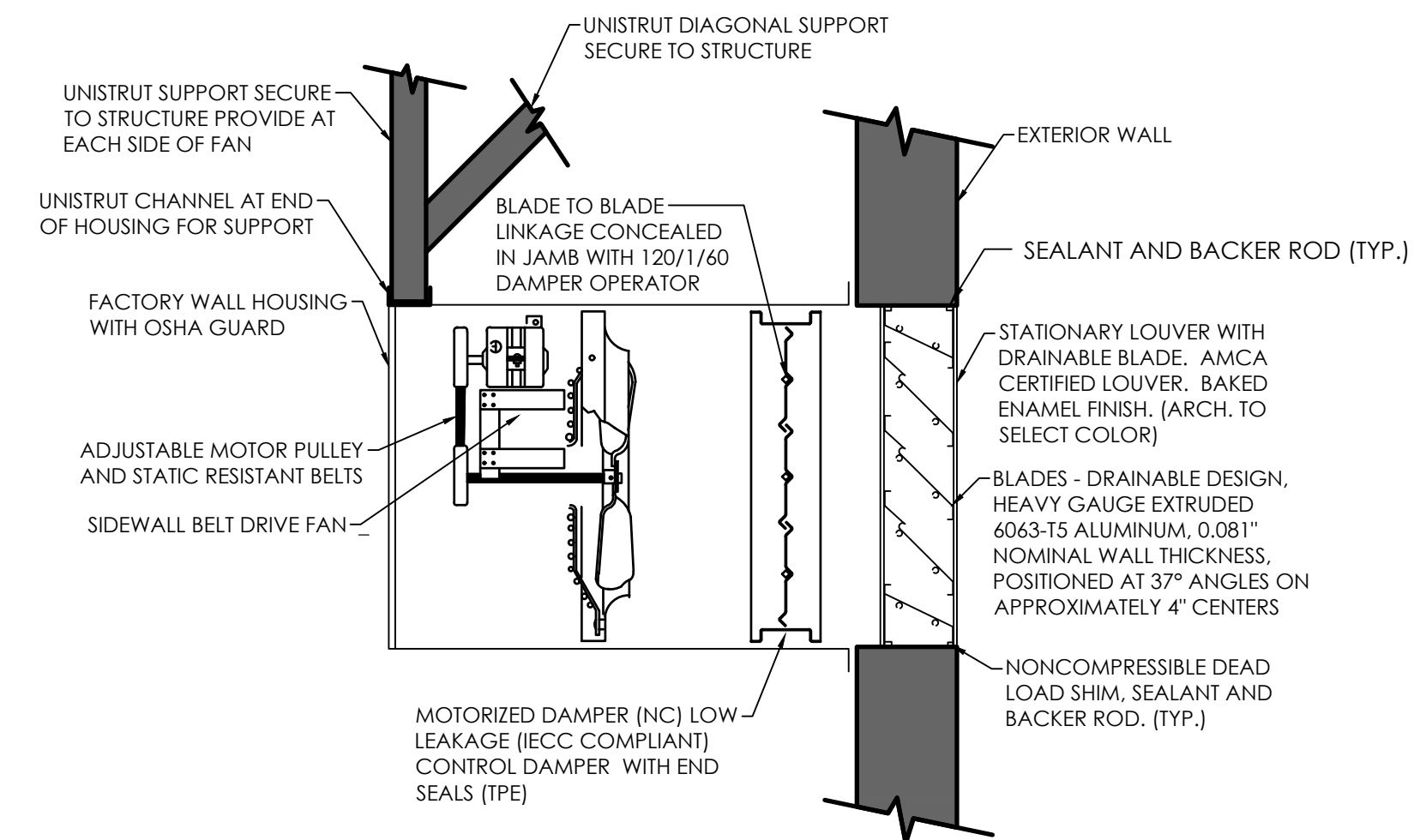
- DUCT THRU NON-RATED STRUCTURE LEGEND:
1. SHEET METAL DUCTWORK.
 2. FLOOR.
 3. WALL OR PARTITION.
 4. SHEET METAL ANGLE, 22 GAUGE. INSTALL ALL FOUR SIDES.
 5. CLOSED CELL FIBER FREE - INTERNAL INSULATION.
 6. 20 GAUGE STEEL SLEEVE.



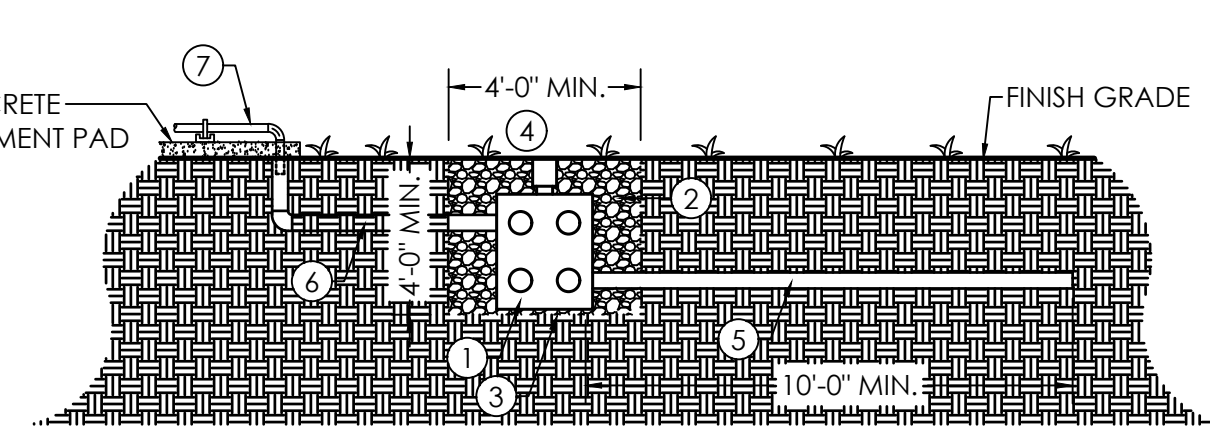
SMOKE DETECTOR DETAIL
NO SCALE TYP. PAC-2 FOR UNITS OVER 2000 CFM.



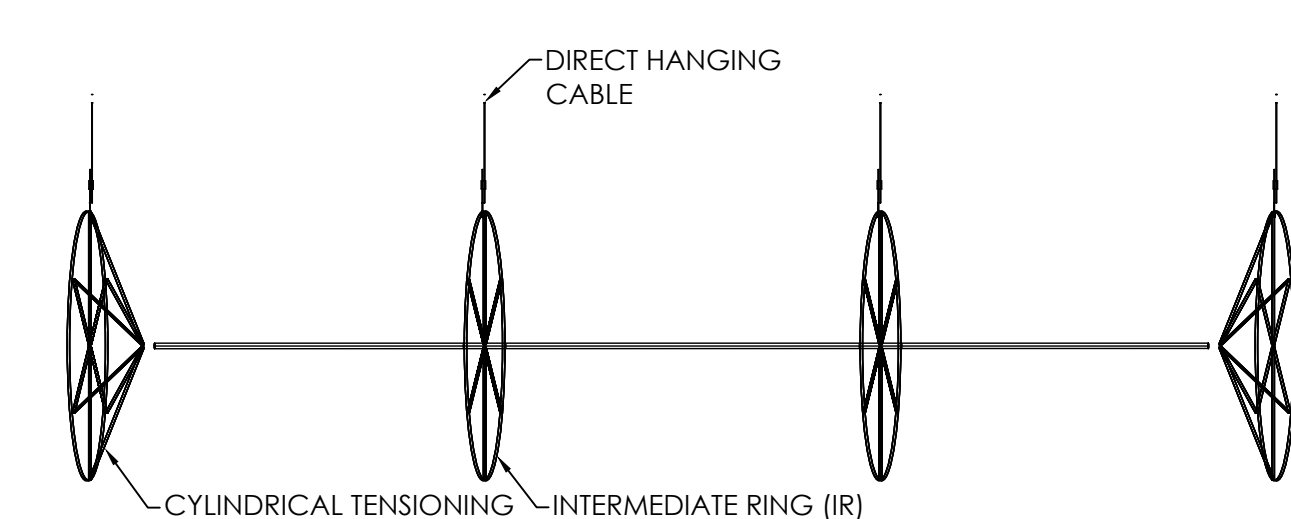
FABRIC DUCT SUSPENSION DETAIL
NO SCALE



WALL MOUNTED EXHAUST FAN DETAIL
NO SCALE

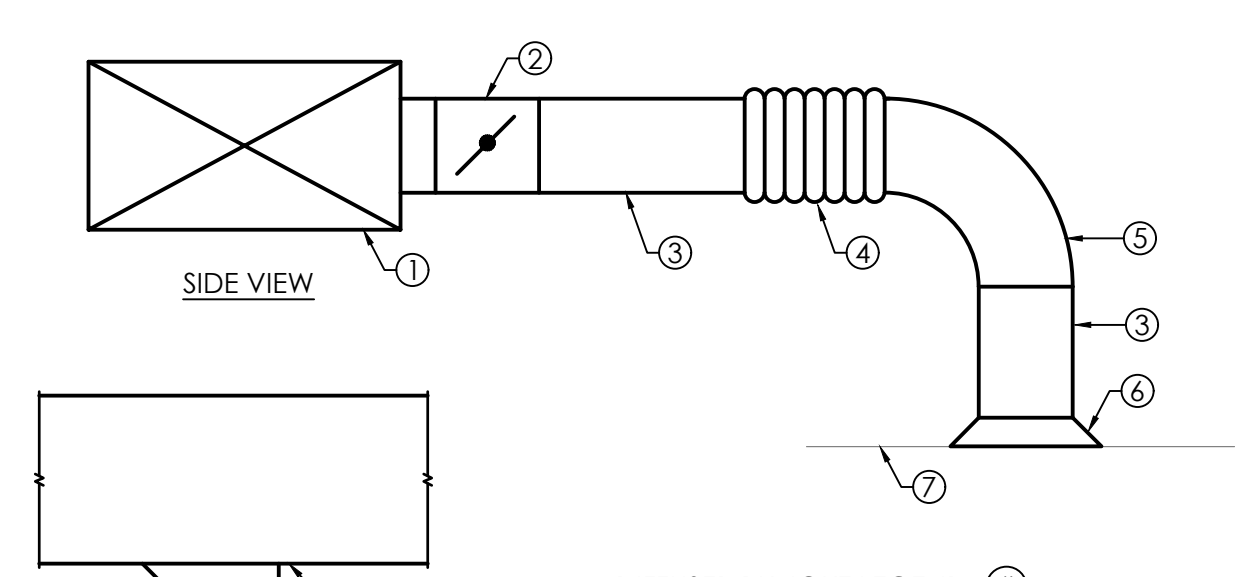


PRE-MANUFACTURED DRYWELL DETAIL
NO SCALE



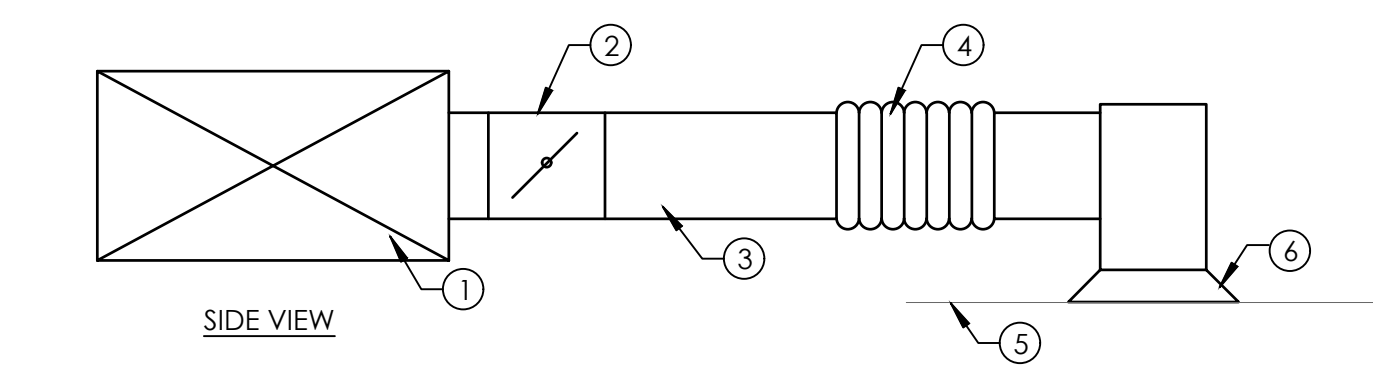
FABRIC DUCT TENSIONING DETAIL
NO SCALE

- PRE-MANUFACTURED DRYWELL DETAIL LEGEND
1. 24" DIAMETER NDS - FLO-WELL SYSTEM - COMPLETE WITH SIDE PANELS, BOTTOM AND COVER.
 2. PEA STONE GRAVEL OR 10" EZ FLOW PIPELESS BUNDLE.
 3. GRAVEL OR NDS TUFF TRACK PAVER AT BOTTOM OF FLO-WELL.
 4. SURFACE INLET ATTACHED TO FLO-WELL TO USED FOR FUTURE CLEANOUT.
 5. 4" DIA. SMOOTH WALL SCHEDULE 40 PVC OR EFLOW GRAVEL FREE FRENCH DRAIN PIPE 2" DIA. SMOOTH WALL SCHEDULE 40 PVC.
 6. INSTALL WITH MIN. 1% SLOPE TOWARD FLO-WELL.
 7. ROUTE CONDENSATE PIPING FROM EQUIPMENT STUB INTO 2" PIPE MIN. OF 2". LEAVE AIR GAP OPEN FOR DRAINAGE.



DIFFUSER RUNOUT DETAIL
NO SCALE

- DIFFUSER RUNOUT LEGEND: #
1. TRUNK DUCT
 2. RECTANGULAR TO ROUND TAKEOFF W/ STANDOFF BUTTERFLY DAMPER. (ROUGH BALANCE THIS DAMPER)
 3. RIGID ROUND METAL RUNOUT.
 4. FLEXIBLE DUCTWORK (4' MAX.).
 5. FULL RADIUS RIGID ELBOW
 6. DIFFUSER - INSULATE ENTIRE TOP OF DIFFUSER
 7. CEILING

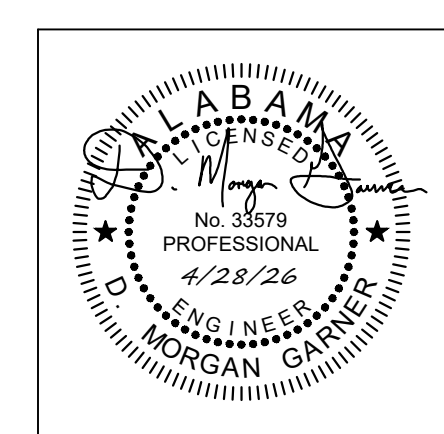


LOW CLEARANCE DIFFUSER RUNOUT DETAIL
NO SCALE

- LOW CLEARANCE DIFFUSER RUNOUT DETAIL
1. TRUNK DUCT
 2. RECTANGULAR TO ROUND TAKEOFF WITH STANDOFF DAMPER. (ROUGH BALANCE THIS DAMPER)
 3. ROUND METAL DUCTWORK
 4. FLEXIBLE DUCTWORK (4' MAX.)
 5. CEILING
 6. DIFFUSER - INSULATE TOP COMPLETELY

NOTE: DETAIL MAY BE USED IN TIGHT CEILING AREAS ONLY

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- Monday, April 27, 2026 4:21:05 PM

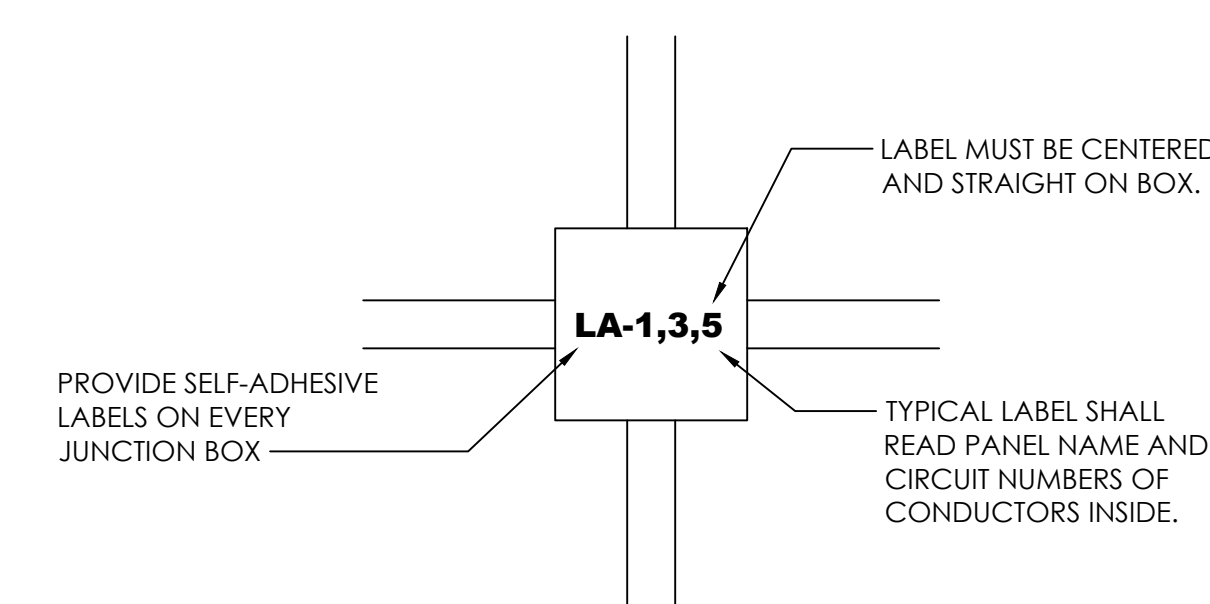


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| PROJ. MGR.: | LR |
| DRAWN: | LR |
| DATE: | 04-28-2026 |
| REVISIONS: | |

JOB NO. 25-320

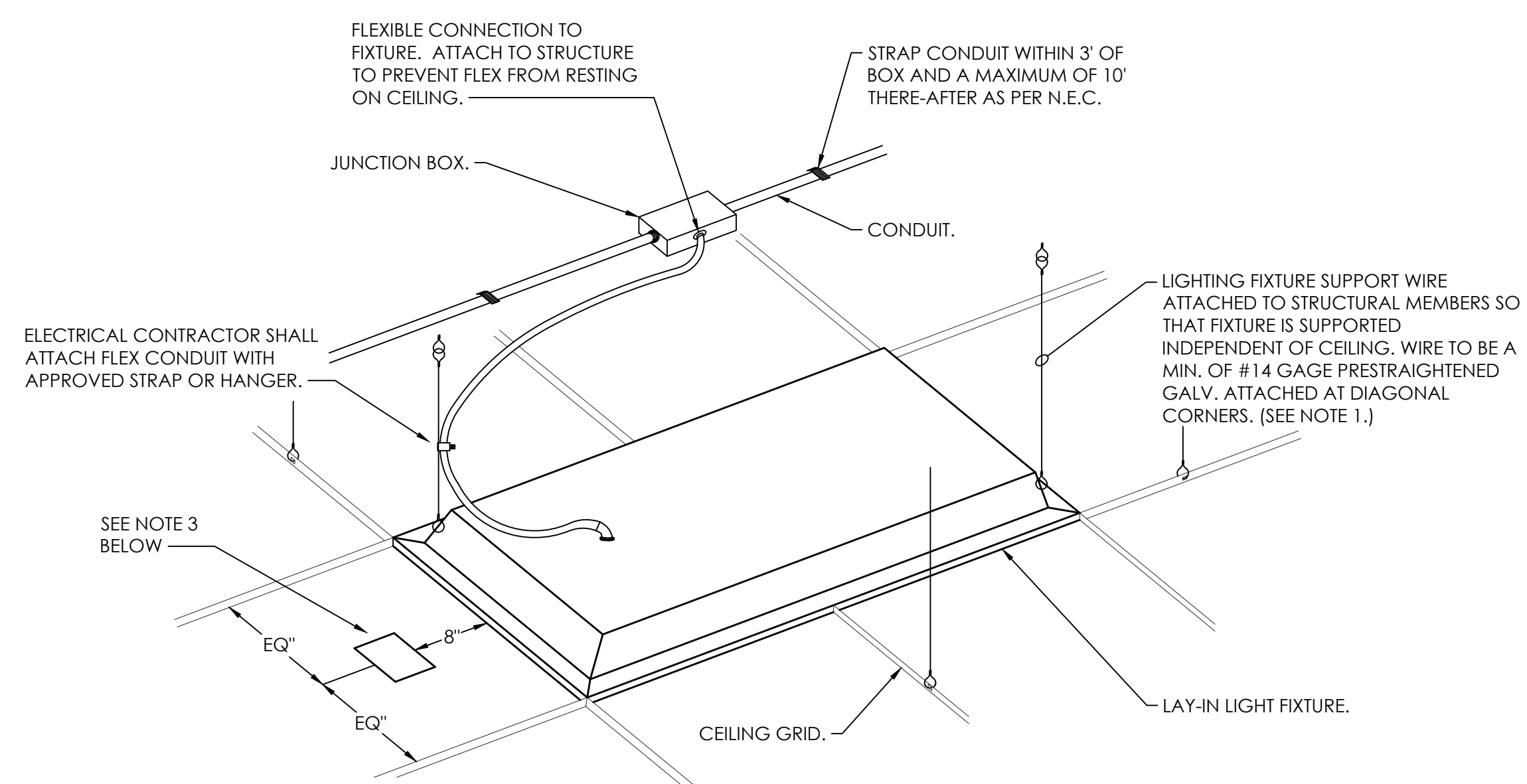
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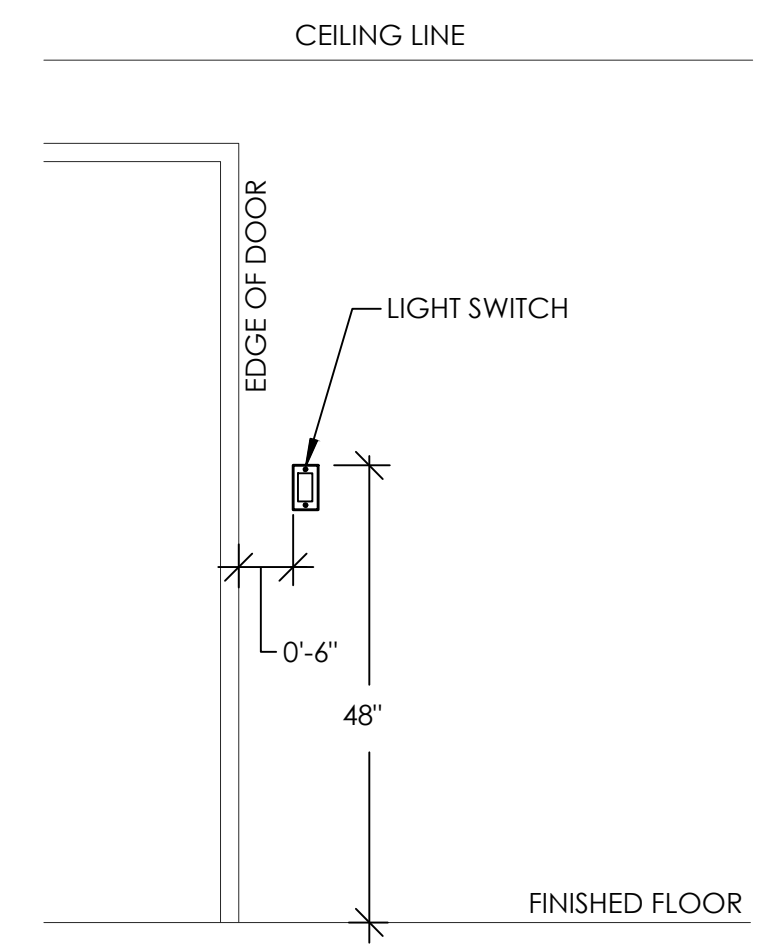
1 E0.2 TYPICAL JUNCTION BOX LABELING DETAIL

- NOT TO SCALE
- NOTES:
- ALL COVERS FOR FIRE ALARM MUST BE FACTORY APPLIED RED.
 - ALL LABELS MUST BE PRE-PAINTED LABELS OF THE SAME SIZE AND TECT. NO HAND WRITING WILL BE ACCEPTED.
 - JUNCTION BOXES WITH CEILING PAINT ON THEM WILL NOT BE ACCEPTED.



3 E0.2 LAY-IN FIXTURE SUPPORT DETAIL

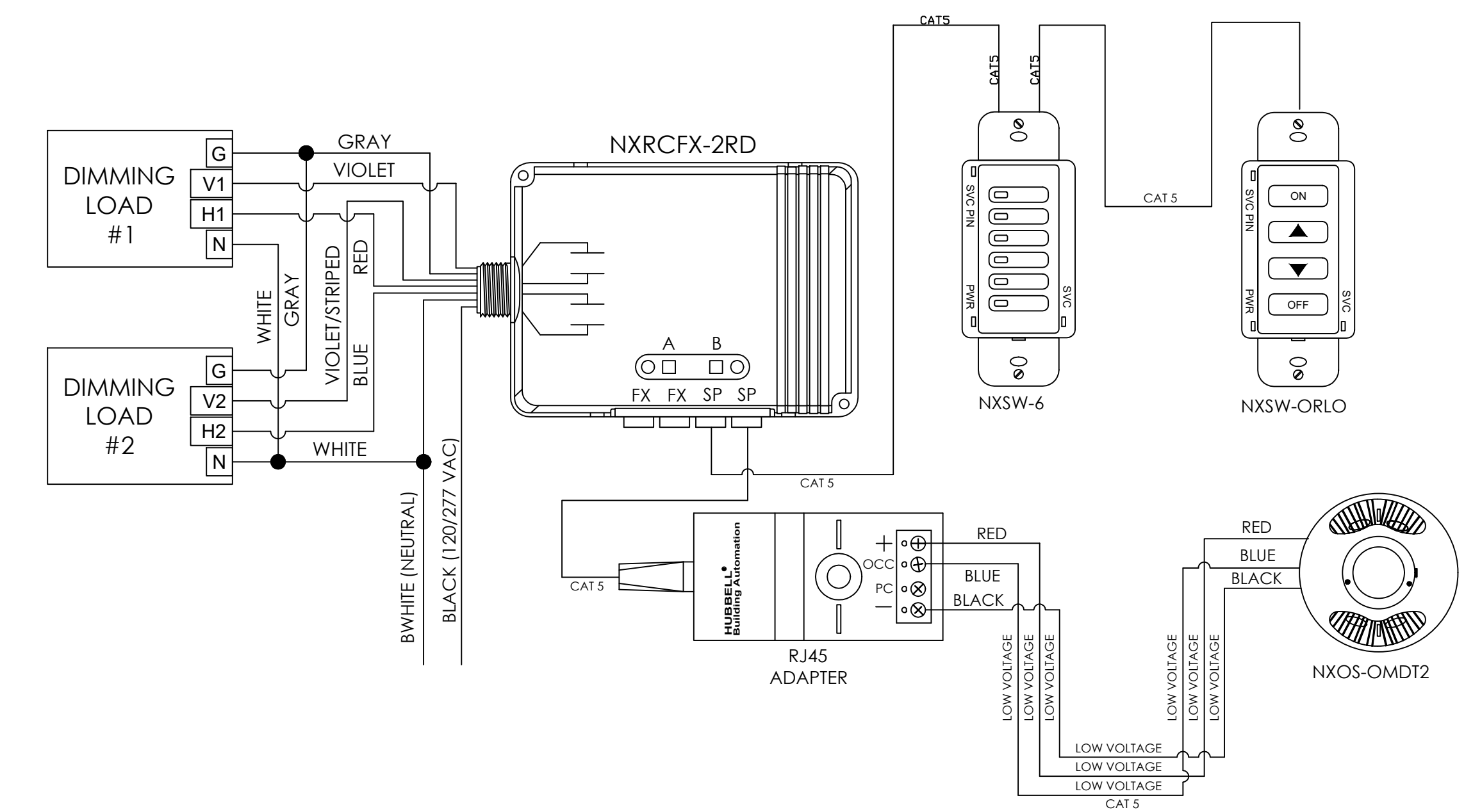
- NOT TO SCALE
- NOTES:
- INDEPENDENT SUPPORT WIRES MUST BE MARKED (PAINTED) SO THAT THEY CAN BE DISTINGUISHABLE AS NON CEILING SUPPORT WIRES PER N.E.C.
 - INDEPENDENT SUPPORT WIRES SHALL NOT HAVE AN ANGLE OF MORE THAN 45° FROM THE CEILING GRID.
 - THIS ONLY APPLIES FOR REMOTE TEST SWITCH. FLUSH MOUNTED IN CEILING TILE.



5 E0.2 TYPICAL LIGHT SWITCH INSTALLATION DETAIL

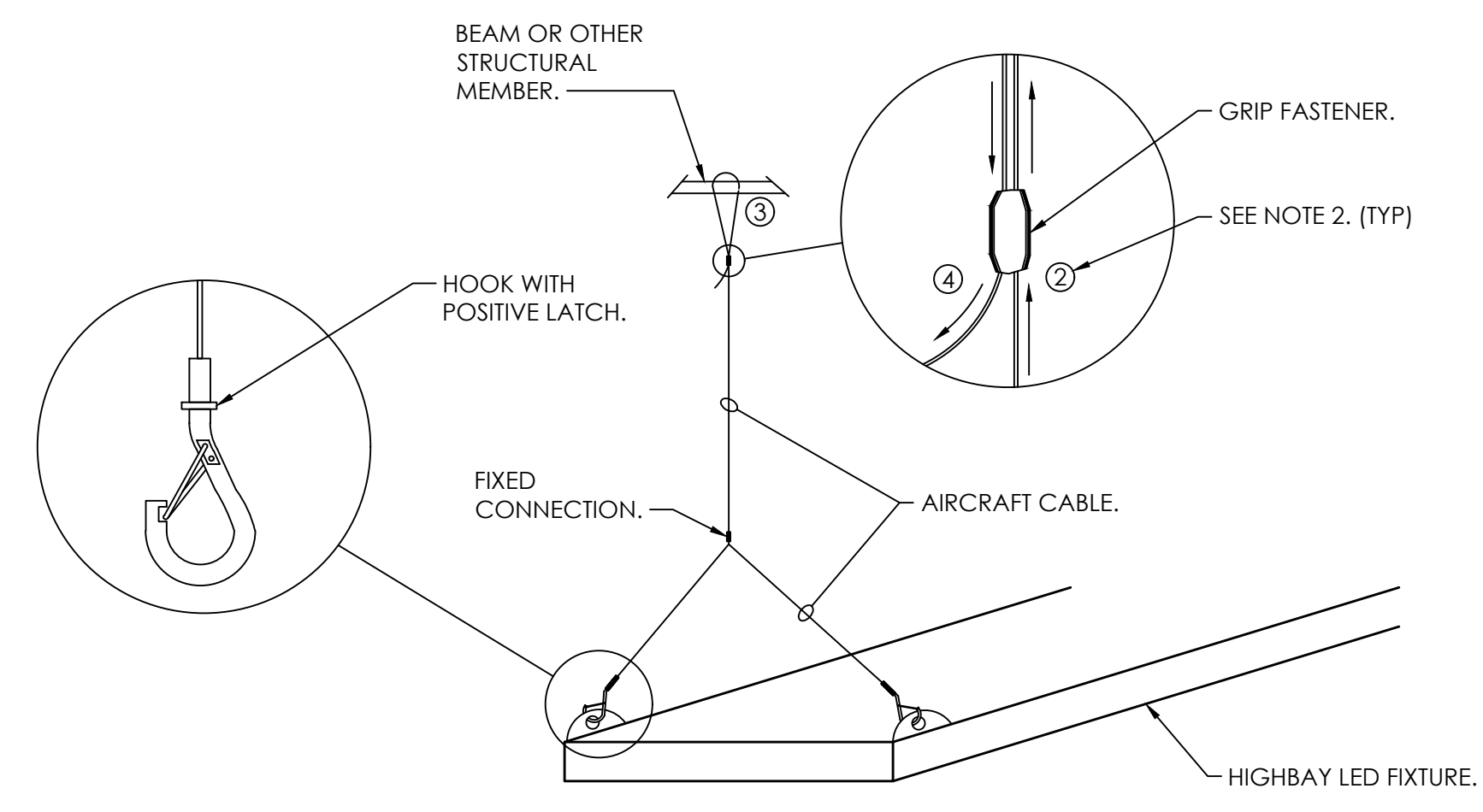
- NOT TO SCALE
- NOTES:
- MOUNT DEVICES ON SAME VERTICAL CENTERLINE.
 - THERMOSTATS SHALL BE MOUNTED PER ADA.
 - THE LIGHT SWITCH MAY NOT APPLY IN ALL CASES.
 - IF THE THERMOSTAT IS SHOWN IN THE MIDDLE OF A WALL ON THE FLOOR PLANS, THEN THE DOOR EDGE REQUIREMENTS DO NOT APPLY.
 - ALL CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR A RESOLUTION.

| LIGHTING FIXTURE SCHEDULE | | | | | | |
|---------------------------|--|----------------|-------|-------------------|-------|--|
| SYMBOL | MANUFACTURER & CATALOG # | LAMP | WATTS | MOUNTING | VOLTS | REMARKS |
| A | LITHONIA #CPX-2X4-ALO7-(LOW)-SWW7-(35K)-SWL-MVOLT | LED W/UNIT 35K | 26 | RECESSED CEILING | 120 | 2'X4' LED FLAT PANEL, 3600 LUMENS, 0-10V DIMMING. |
| AE | LITHONIA #CPX-2X4-ALO7-(LOW)-SWW7-(35K)-SWL-MVOLT-E10W | LED W/UNIT 35K | 26 | RECESSED CEILING | 120 | 2'X4' LED FLAT PANEL, 3600 LUMENS, 0-10V DIMMING WITH EMERGENCY BATTERY PACK. |
| B | LITHONIA #CPX-2X2-ALO7-(MID)-SWW7-(35K)-SWL-MVOLT | LED W/UNIT 35K | 28 | RECESSED CEILING | 120 | 2'X2' LED FLAT PANEL, 3400 LUMENS, 0-10V DIMMING. |
| BE | LITHONIA #CPX-2X2-ALO7-(MID)-SWW7-(35K)-SWL-MVOLT-E10W | LED W/UNIT 35K | 28 | RECESSED CEILING | 120 | 2'X2' LED FLAT PANEL, 3400 LUMENS, 0-10V DIMMING WITH EMERGENCY BATTERY PACK. |
| EM | WILLIAMS #EMER/LED-WHT-QS-D | LED W/UNIT | 0 | WALL | 120 | LED WALL MOUNTED EMERGENCY LIGHT FIXTURE WITH 90 MINUTE EMERGENCY BATTERY. |
| HB | LITHONIA #CPRB-ALO14-(2700LM)-UVOLT-SWW9 [40K]-80CRI-DWH | LED W/UNIT 40K | 195 | SUSPENDED CEILING | 120 | LED ROUND HIGH BAY LIGHT, 27000 LUMENS, 0-10V DIMMING. |
| S | LITHONIA #CSS-148-AL03-MVOLT-SWW3-80CRI-ZACVH-(5000LM 3500K) | LED W/UNIT 35K | 38 | SUSPENDED CEILING | 120 | 4' LED STRIP LIGHT, 5000 LUMENS, 0-10V DIMMING. |
| SE | LITHONIA #CSS-148-AL03-MVOLT-SWW3-80CRI-ZACVH-(5000LM 3500K)-E10W | LED W/UNIT 35K | 38 | SUSPENDED CEILING | 120 | 4' LED STRIP LIGHT, 5000 LUMENS, 0-10V DIMMING WITH EMERGENCY BATTERY PACK. |
| VT | LITHONIA #CSVT-L96-ALO4-MVOLT-SWW3-80CRI-(10000LM 4000K) | LED W/UNIT 40K | 84 | SURFACE CEILING | 120 | 8' LED STRIP LIGHT FOR DAMP LOCATIONS, 10000 LUMENS, 0-10V DIMMING. |
| WE | LITHONIA #TWR1-LED-ALO-LOW-40K-UVOLT-E7WC | LED W/UNIT 35K | 16 | WALL | 120 | EXTERIOR LED WALL PACK, 2300 LUMENS, WITH EMERGENCY BATTERY PACK. |
| X | BEGHELLI #BR-LR-U-WHT | LED W/UNIT | 3 | WALL | 120 | WALL MOUNTED LED EXIT SIGN WITH A EMERGENCY LED LIGHT BAR, WHITE WITH RED LETTERS, 90 MINUTE EMERGENCY BACKUP BATTERY. |



2 E0.2 TYPICAL LIGHTING ROOM CONTROLLER DETAIL

NOT TO SCALE



4 E0.2 HIGHBAY LED SUPPORT DETAIL

- NOT TO SCALE
- NOTES:
- ALL CABLES ARE TO BE STRAINED GALVANIZED STEEL WITH A MIN. DIA. OF 0.080".
 - PASS FREE END THROUGH GRIP FASTENER.
 - FEED FREE END AROUND UNISTRUCT.
 - RETURN FREE END THROUGH GRIP FASTENER AND ADJUST TO SPECIFIED LENGTH.
 - ELECTRICAL CONTRACTOR MUST SUBMIT A DETAIL OF LIGHTING FIXTURE SUPPORT METHOD AND A LIST OF MATERIALS TO BE USED AS PER MANUFACTURER'S RECOMMENDATIONS.
 - TYPICAL SUPPORT METHOD TO BE USED ON BOTH ENDS OF THE FIXTURE.

| LOW VOLTAGE SWITCH SCHEDULE | | | | | |
|-----------------------------|---------|--------------------------------------|-----------------------------|--|--|
| MARK | BUTTONS | RELAY/CIRCUIT | LABEL - ENGRAVING | AUTOMATION | |
| A | 2 | LC - g LC - g | ON OFF | MANUAL ON/OFF/TIMED OFF/MOTION OFF | |
| B | 4 | LC - g LC - g LC - g LC - g | ON OFF RAISE LOWER | MANUAL ON / AUTO OFF MANUAL OFF RAISE LOWER | |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

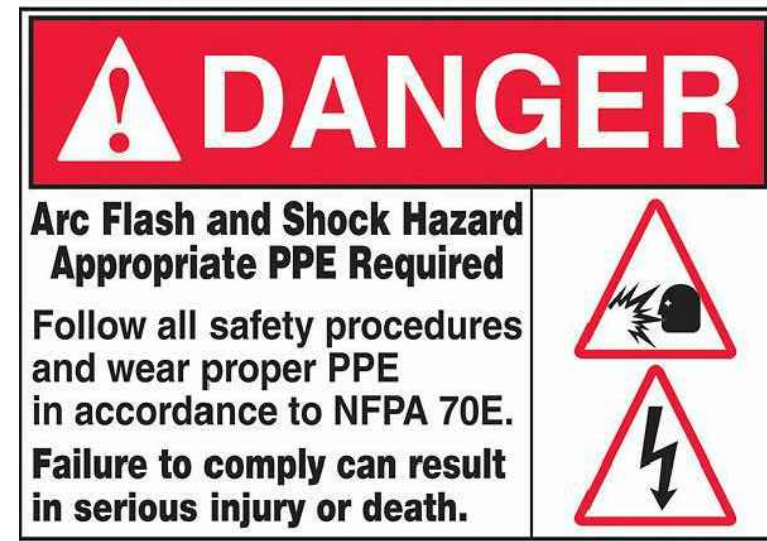
- ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
- LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES 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 DRIVERS 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.
- ADJUSTABLE AIMING LUMINAIRES SHALL BE ADJUSTED FOR FINAL APPROVAL AT NIGHT. OWNER, ARCHITECT, AND ENGINEER RESERVES THE RIGHT TO HAVE THE CONTRACTOR ADJUST LIGHTING TO THEIR SATISFACTION.
- ALL SURFACE OR SUSPENDED LUMINAIRES SHALL HAVE JOINING PLATES, END CAPS, CANOPIES, ETC.
- ALL INTERIOR LUMINAIRES SHALL BE PROVIDED WITH 3500K COLOR TEMPERATURE LEDS. ALL EXTERIOR LUMINAIRES SHALL BE PROVIDED WITH 4000K COLOR TEMPERATURE LEDS.
- 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.
- PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.
- 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.
- 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.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LUMINAIRES AND EXIT SIGNS.
- APPROVED EQUAL LIGHTING MANUFACTURERS ARE HUBBELL AND PHILLIPS LIGHTING.

OCCUPANCY SENSOR AND CONTROL NOTES:

- OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 30 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 RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
- 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 ONE (1) FOOT INSIDE THRESHOLD.
- LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHTING CONTROL SYSTEM IS SUBMITTED FOR APPROVAL AND IS APPROVED.
- WATT STOPPER AND IN-LIGHT ARE APPROVED EQUALS.
- CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER LIGHTING CONTROL DEVICE WITH #12 GROUND.
- 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.

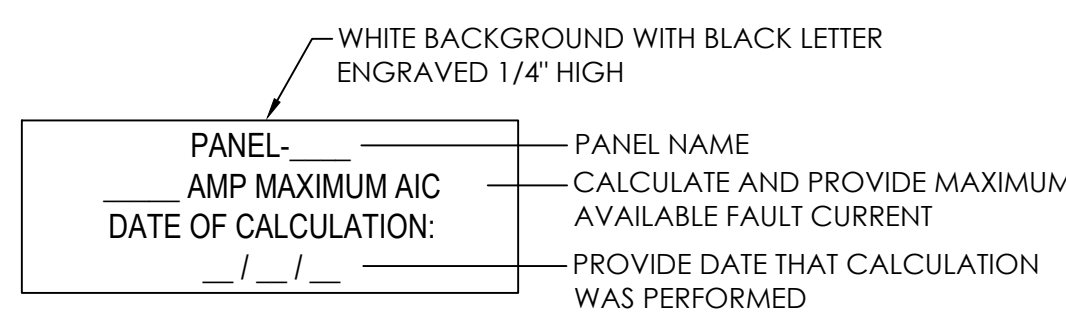
LIGHTING CONTROL NOTES:

- CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN ADJACENT UTILITY TYPE ROOM WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL WITH 1" BLACK TEXT THAT READS "LC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.
- PROVIDE COMPLETE LIGHTING CONTROLS TO COMPLY WITH ASHRAE 90.1-2013 AS HEREIN NOTED AND AS SHOWN ON DRAWINGS.
- ALL SENSORS SHALL BE LOCATED BY MANUFACTURER TO ACCOMPLISH EXACT REQUIREMENTS FOR SENSOR.
- ALL LIGHTING CONTROLS SHALL BE "MANUAL ON" EXCEPT FOR CORRIDORS AND EXTERIOR AT DOORWAYS.
- FURNISH AND INSTALL ALL LOW VOLTAGE LIGHTING CONTROL WIRING BETWEEN ROOM CONTROLLER, SENSORS, AND WALL SWITCHES. WHERE DIMMING OF FIXTURES IS REQUIRED, PROVIDE 0-10 VOLT CABLED AS NEEDED TO EACH FIXTURES. DIMMING CABLES SHALL NOT BE ROUTED IN SAME CONDUIT AS POWER CONDUIT (120V). REFER TO TYPICAL ROOM LIGHTING CONTROL WIRING DIAGRAM.
- SHOP DRAWINGS MUST BE SUBMITTED AND SHALL INCLUDE SENSOR LOCATIONS AND WIRING LAYOUTS. MANUFACTURER SHALL INCLUDE AT LEAST THREE (3) ON-SITE MEETINGS WITH CONTRACTOR: 1) PRE-INSTALL - AFTER SHOP DRAWINGS ARE APPROVED AND BEFORE ANY WORK BEGINS, 2) START-UP - AFTER WORK IS COMPLETE AND PRIOR TO FINAL INSPECTION, 3) FINAL CHECK - AFTER FINAL INSPECTION IS COMPLETED. OWNER TRAINING.
- MANUFACTURER SHALL PROVIDE WRITTEN REPORT AS TO FUNCTIONAL TESTING AFTER SYSTEM IS COMPLETE. REPORT MUST BE SIGNED BY FIELD TECHNICIAN AND MUST STATE THAT CONTROLS ARE INSTALLED, CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION AS WELL AS DOCUMENTING THAT THE LIGHTING PERFORMS CORRECTLY TO THE INTENDED OPERATION. REPORT MUST ALSO INDICATE, BY OWNER'S SIGNATURE, THAT ALL CONTROLS HAVE BEEN COORDINATED WITH OWNER.
- PROVIDE WIRELESS CONFIGURATION TOOL FOR PROGRAMMING LIGHTING CONTROLS.
- INTERIOR LIGHTING CONTROLLED BY A TIMED SENSOR SHALL FLASH ONE MINUTE PRIOR TO SHUT OFF. SYSTEM SHALL ALLOW LOCAL OVERRIDE OF AUTOMATIC SHUT OFF FOR UP TO 2 HOURS.
- CONTROL CABLING SHALL BE PURPLE IN COLOR.



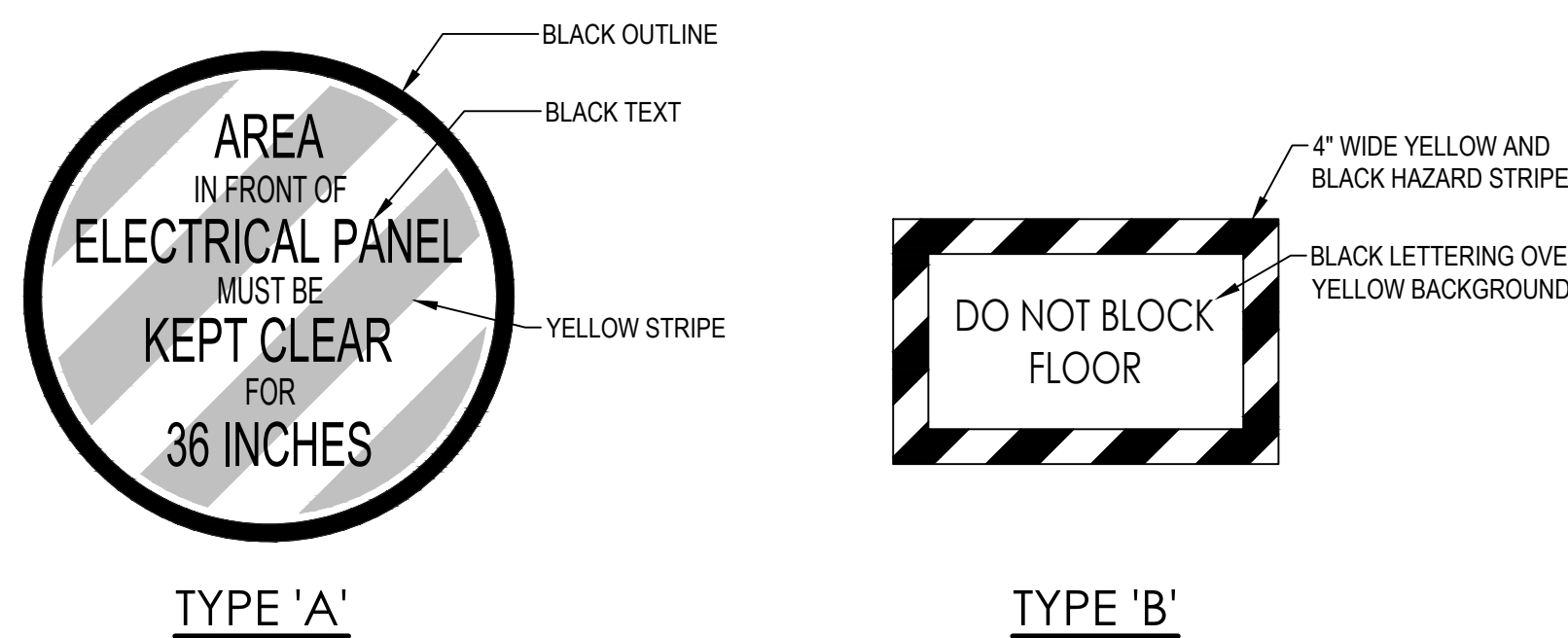
1 TYPICAL ARC FLASH WARNING LABEL DETAIL

- NOT TO SCALE
- NOTES:
1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS PER N.E.C. 110.16.
 2. THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE. ALL OTHER LABELS MUST BE SUBMITTED FOR APPROVAL.
 3. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
 4. THE SIZE OF THE LABEL SHALL BE 4" HIGH AND 6" WIDE FOR INDOOR AND OUTDOOR EQUIPMENT.



3 SERVICE ENTRANCE FAULT CURRENT NAMEPLATE DETAIL

- NOT TO SCALE
- NOTES:
1. CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS BELOW.

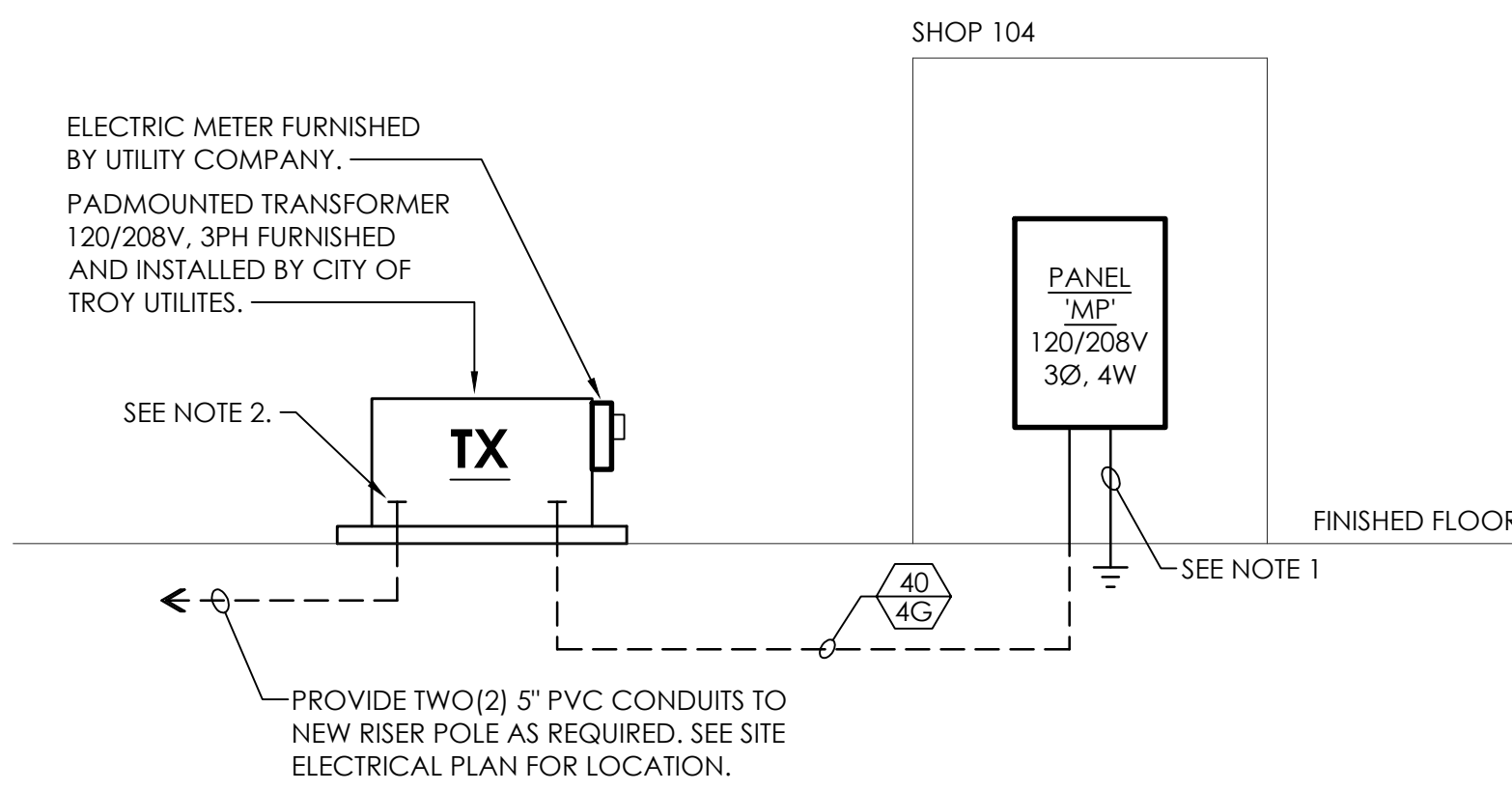


4 ELECTRICAL EQUIPMENT CLEARANCE MARKING

- NOT TO SCALE
- NOTES:
1. THIS DETAIL IS TYPICAL FOR ALL ELECTRICAL PANELS.

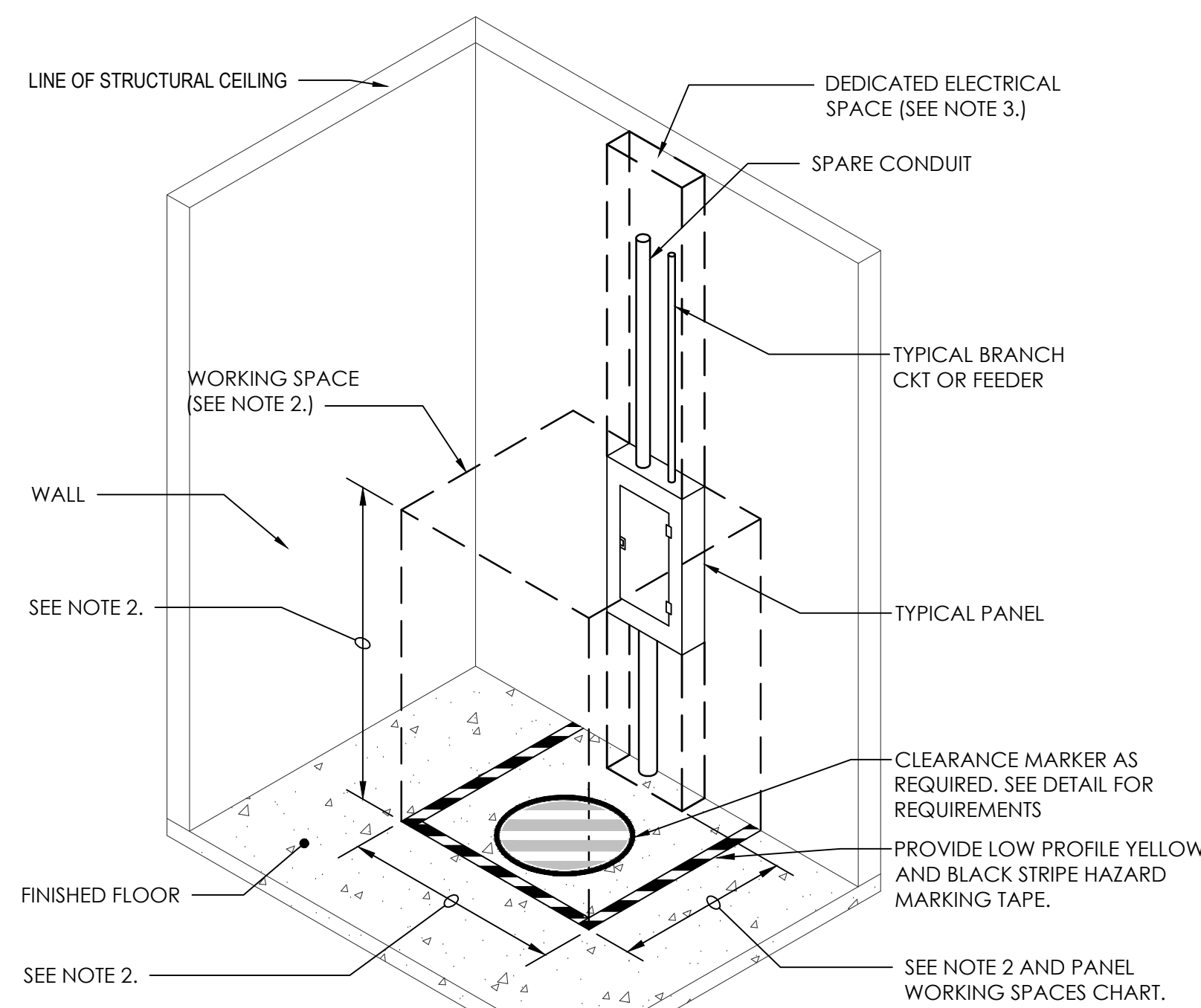
| NOMINAL VOLTAGE TO GROUND | MINIMUM CLEAR DISTANCE | | |
|---------------------------|------------------------|-------------|-------------|
| | CONDITION 1 | CONDITION 2 | CONDITION 3 |
| 0-150 | 3'-0" | 3'-0" | 3'-0" |
| 151-600 | 3'-0" | 3'-6" | 4'-0" |

NOTE:
WHERE THE CONDITIONS ARE AS FOLLOWS:
 • **CONDITION 1** - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDING PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS.
 • **CONDITION 2** - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDING PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK, OR TILE WALLS SHALL BE CONSIDERED AS GROUNDING.
 • **CONDITION 3** - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.



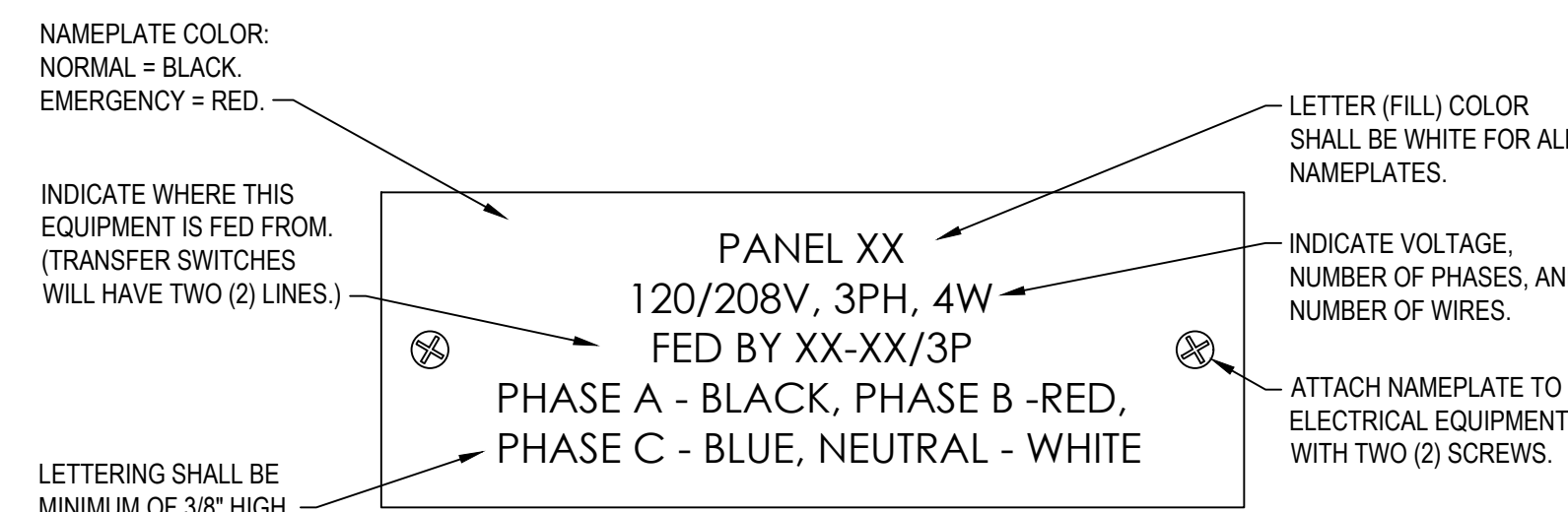
2 POWER RISER DIAGRAM

- NOT TO SCALE
- NOTES:
1. 1# 1/0 BARE COPPER EACH GROUND IN 1" CONDUIT. ONE (1) TO COLD WATER PIPE, ONE (1) DRIVEN, ONE (1) TO BUILDING STEEL AND ONE (1) TO REBAR AS PER N.E.C. SEE SERVICE ENTRANCE GROUNDING.
 2. TERMINATION OF SERVICE CONDUCTORS AT PAD MOUNTED TRANSFORMER AND AT SERVICE EQUIPMENT (WHERE POSSIBLE) SHALL BE TWO HOLE, LONG BARREL COMPRESSION LUGS (TWO COMPRESSIONS MINIMUM) ILSCO, BURNDY OR EQUAL. CONNECTIONS SHALL BE MADE WITH FULL SIZE TINNED OR CADMIUM PLATED SILICON-BRONZE BOLTS AND HARDWARE.



5 ELECTRICAL PANEL WORKING CLEARANCES

- NOT TO SCALE
- NOTES:
1. DIMENSIONS SHOWN ARE MINIMUM.
 2. WORKING SPACE IS DEFINED AS THE SPACE IN FRONT OF THE PANEL FOR EXAMINATION, ADJUSTMENTS, SERVICING AND/OR MAINTENANCE WHILE ENERGIZED. IN ALL CASES WORK SPACES SHALL PERMIT AT LEAST A 90 DEG. OPENING OF EQUIPMENT DOORS OR HINGED PANELS.
 - WIDTH: 30" OR WIDTH OF EQUIPMENT (WHICHEVER IS GREATER)
 - HEIGHT: 6'-6" FROM FLOOR OR HEIGHT OF EQUIPMENT, (WHICHEVER IS GREATER)
 - DEPTH: DEPENDS ON CONDITIONS OUTLINED IN PANEL WORKING SPACES CHART.
 3. DEDICATED ELECTRICAL SPACE IS DEFINED AS THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT, EXTENDING FROM FLOOR TO A HEIGHT OF 6'-0" ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, (WHICHEVER IS LOWER)
 4. SEE NFPA 70, CURRENT NEC.



7 ELECTRICAL EQUIPMENT NAMEPLATE DETAIL

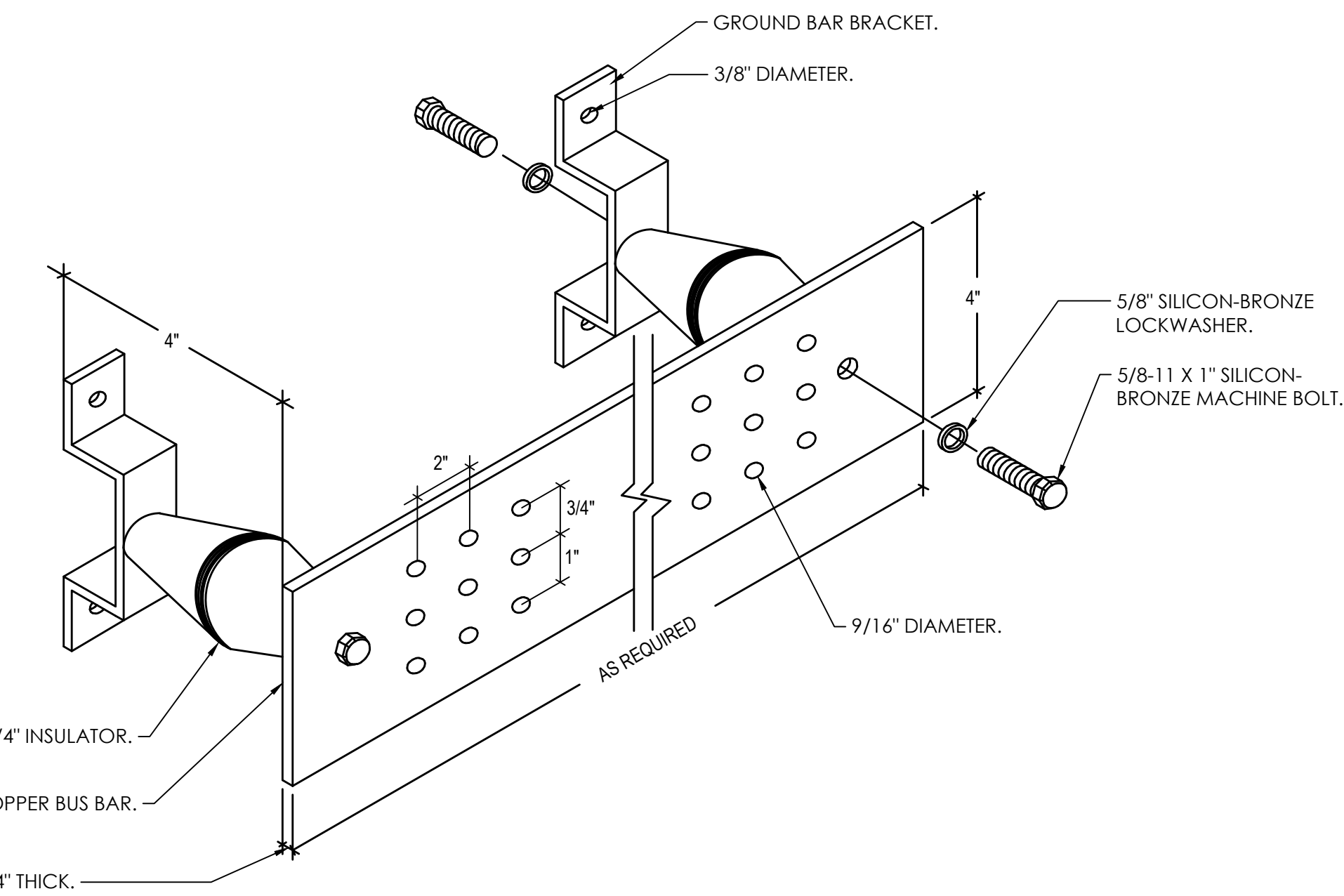
- NOT TO SCALE
- NOTES:
1. THIS DETAIL IS TYPICAL FOR ALL ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO PANELS, DISCONNECTS, ETC.
 2. NAMEPLATES SHALL BE MOUNTED NEAR THE TOP AND CENTER OF EQUIPMENT.

| DISCONNECT SWITCH SCHEDULE | | | | | |
|----------------------------|------|------|------|------|---|
| NUMBER | SIZE | POLE | FUSE | NEMA | REMARKS |
| 1 | 60 | 2 | YES | 1 | FUSE PER EQUIP. MANUFACTURER'S REQUIREMENTS |
| 2 | 30 | 3 | YES | 1 | FUSE PER EQUIP. MANUFACTURER'S REQUIREMENTS |
| 3 | 60 | 3 | YES | 1 | FUSE PER EQUIP. MANUFACTURER'S REQUIREMENTS |
| 4 | 100 | 3 | YES | 3R | FUSE PER EQUIP. MANUFACTURER'S REQUIREMENTS |

| FEEDER SCHEDULE | |
|-----------------|------------------------------|
| SYMBOL | COPPER |
| ① 3/36 | 3#10 & 1#10(G) - 1/2'c. |
| ② 4/28 | 2#6 & 1#8(G) - 1'c. |
| ③ 6/36 | 3#6 & 1#8(G) - 1'c. |
| ④ 10/36 | 3#3 & 1#8(G) - 1 1/4'c. |
| ⑤ 40/46 | 4#500MCM & 1#3(G) - 3 1/2'c. |

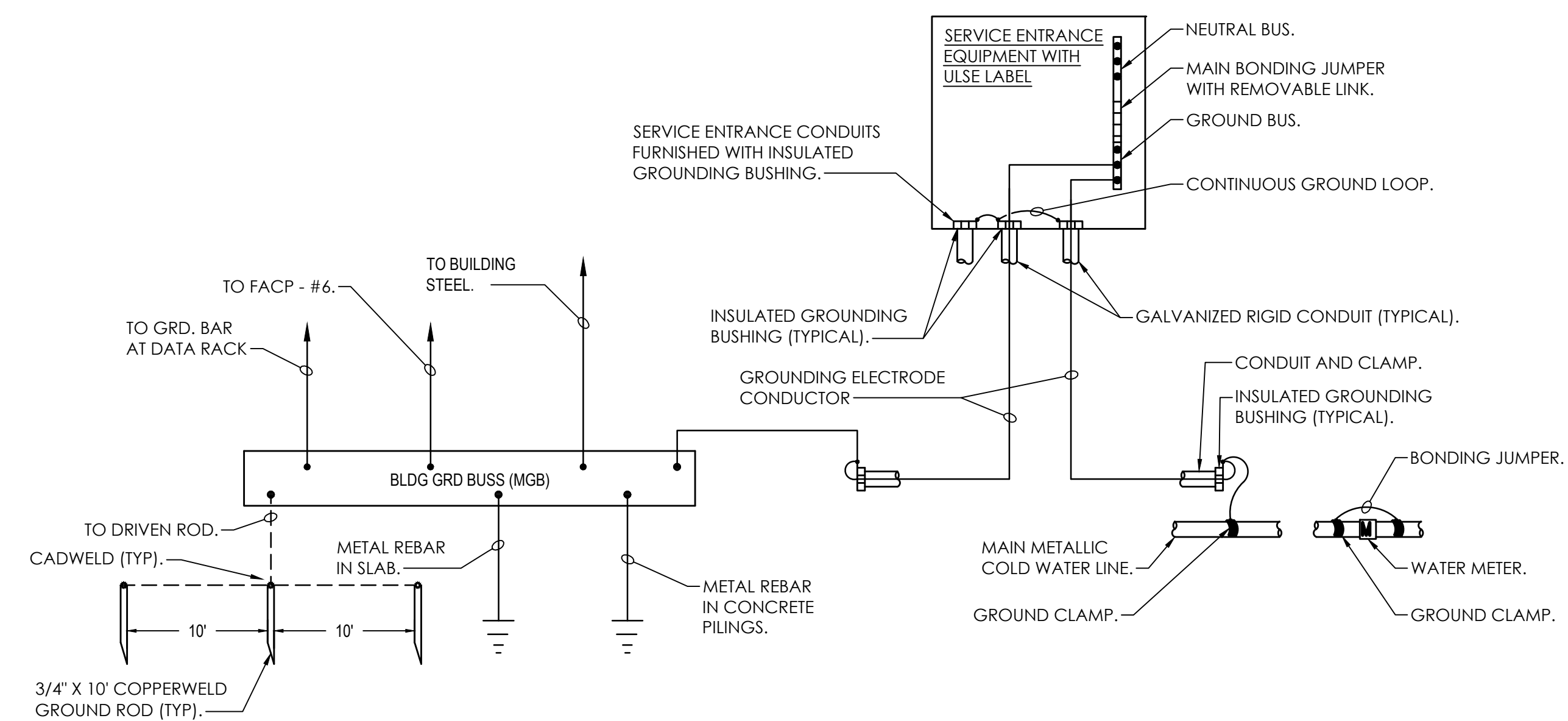
GENERAL RISER DIAGRAM NOTE:

EACH SERVICE EQUIPMENT MAIN PANEL SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKINGS SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. CONTRACTOR IS RESPONSIBLE FOR CALCULATION AND PROPER MARKINGS AND MUST COMPLY WITH NEC 110.24. FIELD MARKINGS SHALL UTILIZE THE SAME METHOD AS PANELBOARD NAMEPLATES OR LABELS AND SHALL BE ON OUTSIDE COVER OF NEMA 1 PANELS AND ON INSIDE OF NEMA 3R PANELS.



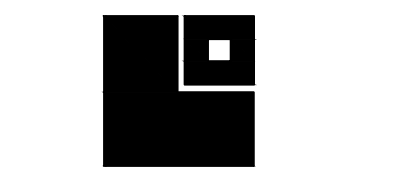
6 TYPICAL GROUND BUS DETAIL

- NOT TO SCALE
- NOTES:
1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE NEC AND UL STANDARDS.
 2. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
 3. ALL GROUND ELECTRODES OR BONDING CONDUCTORS INSTALLED ALONE WITH A RACEWAY SHALL UTILIZE GRC WITH GROUNDING BUSHINGS AT EACH END. THIS GROUND CONDUCTOR SHALL LOOP THRU THE BUSHING LUG PRIOR TO TERMINATION.
 4. LENGTH OF BUS SHALL BE AS REQUIRED BY THE NUMBER OF CONDUCTOR CONNECTIONS PLUS 25% SPARE CAPACITY SPACE OR AS SPECIFIED OTHERWISE.
 5. BUS BARS OVER 20" IN LENGTH REQUIRE AT LEAST ONE ADDITIONAL 3-2/4" INSULATOR SUPPORT OR AS REQUIRED. BUS BARS OVER 6" WIDE REQUIRE INSULATORS AT ALL 4 CORNERS OR AS REQUIRED.

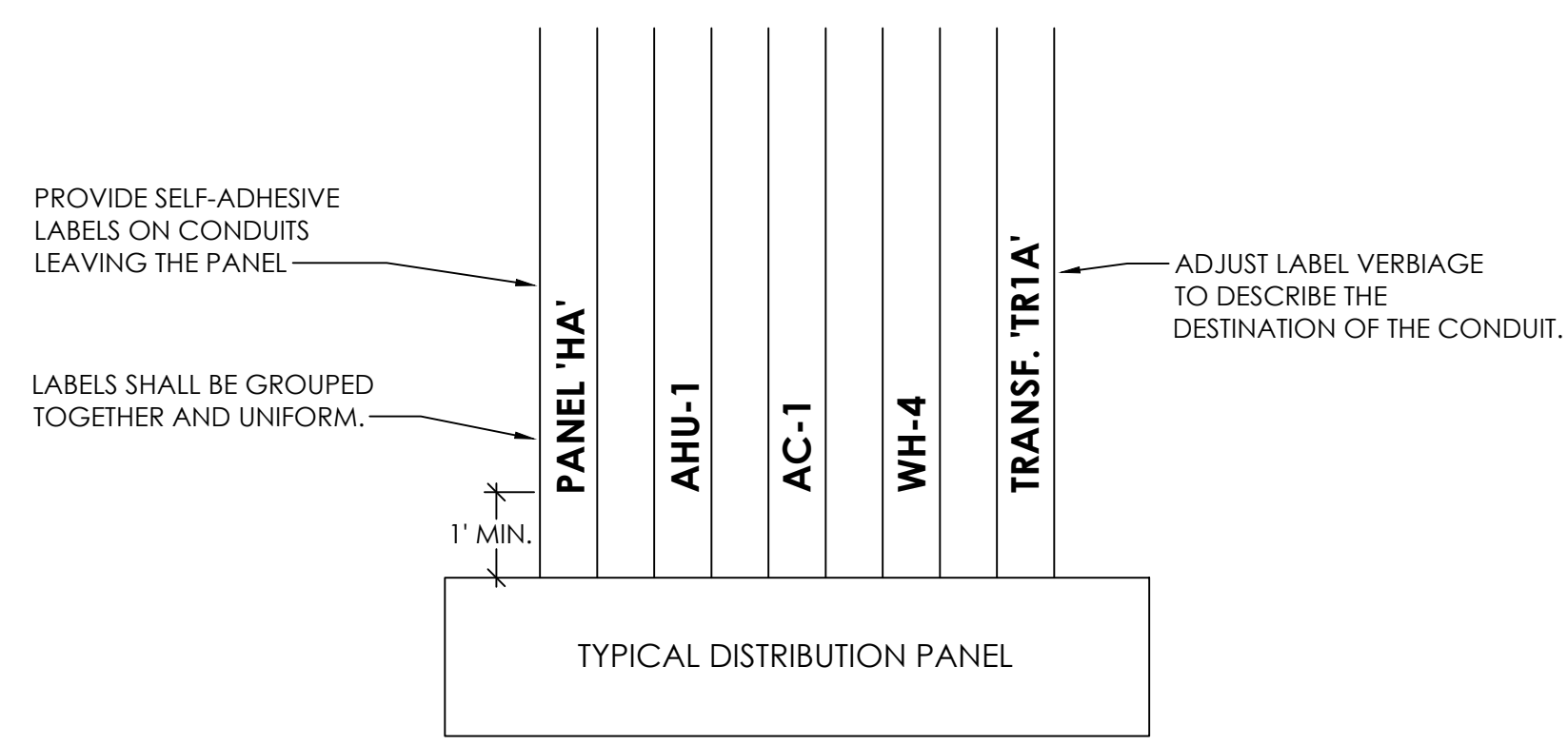


8 SERVICE ENTRANCE GROUNDING INSTALLATION

- NOT TO SCALE
- NOTES:
1. GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH THE NEC ARTICLE 250.
 2. GROUNDING ELECTRODE CONDUCTORS SHALL BE CONTINUOUS AND NOT SPLICED.
 3. GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED IN 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 THE INTEGRITY OF THE GROUNDING SYSTEM.



| PANELBOARD SCHEDULE | | | | | | | | | | PANEL 'MP' | |
|------------------------------------|----------------------------|--------------|--------------|---------------------|-----------|-----------|--------|-----------------------------|--------------|--------------|---------------------------|
| DIRECTORY | LOAD (VOLT*AMPS) | | | CKT NO | BRKR AMPS | BRKR AMPS | CKT NO | LOAD (VOLT*AMPS) | | | DIRECTORY |
| | A | B | C | | | | | A | B | C | |
| REC. OFFICE 105 | 1000 | | | 1 | 20 | 20 | 2 | 600 | | | LTS. OFFICES |
| REC. OFFICE 106 | | 1000 | | 3 | 20 | 20 | 4 | | 600 | | LTS. STORAGE 108 |
| REC. STORAGE 106 | | | 800 | 5 | 20 | 20 | 6 | | | 600 | LTS. BREAK ROOM |
| REC.MECH 110 & DATA | 1000 | | | 7 | 20 | 20 | 8 | 1200 | | | LTS. SHOP 104 |
| REFRIGERATOR *GF | | 1200 | | 9 | 20GF | 20 | 10 | 1200 | 1200 | | LTS. TRUCK BAY 103 |
| FREEZER *GF | | | 1200 | 11 | 20GF | 20 | 12 | | | 1200 | LTS. TRUCK BAY 103 & STG. |
| REC. BREAK ROOM | 200 | | | 13 | 20 | 20 | 14 | 200 | | | LTS. EXT. |
| REC. BREAK ROOM | | 400 | | 15 | 20 | 20 | 16 | | 400 | | LTS. CANOPY |
| REC. BREAK ROOM | | | 800 | 17 | 20 | 20 | 18 | | | 600 | UNIT HEATER 1 |
| REC. SHOP 104 | 800 | | | 19 | 20 | 20 | 20 | 600 | | | UNIT HEATER 2 |
| REC. SHOP 104 | | 600 | | 21 | 20 | 20 | 22 | | 600 | | UNIT HEATER 3 |
| REC. SHOP 104 | | | 1000 | 23 | 20 | 20 | 24 | | | 600 | UNIT HEATER 4 |
| REC. SHOP 104 | 1000 | | | 25 | 20 | 20 | 26 | 200 | | | CIR. PUMPTIME CLOCK |
| REC. SHOP 104 | | 1000 | | 27 | 20 | 20 | 28 | | 600 | | FACP (RED, LOCK-ON) |
| ICE MAKER *GF | | | 1200 | 29 | 20GF | 20 | 30 | | | | SPARE |
| SPARE | | | | 31 | 20 | 20 | 32 | | | | SPARE |
| SPARE | | | | 33 | 20 | 20 | 34 | | | | SPARE |
| SPARE | | | | 35 | 60/3 | 20 | 36 | | | | SPARE |
| | | | | 37 | | 30/3 | 38 | | | | SPARE |
| | | | | 39 | | | 40 | | | | |
| WATER HEATER | | | 3000 | 41 | 40/2 | | 42 | | | | |
| | 3000 | | | 43 | | 60/3 | 44 | 4500 | | | EQ. DISCONNECT |
| REC. DATA RACK | | 2000 | | 45 | 30/2 | | 46 | | 4500 | | |
| | | | 2000 | 47 | | | 48 | | | 4500 | |
| EXHAUST FAN 1 | 1270 | | | 49 | 20/3 | 60/3 | 50 | 3500 | | | AIR COMPRESSOR |
| | | 1270 | | 51 | | | 52 | | 3500 | | |
| | | | 1270 | 53 | | | 54 | | | 3500 | |
| PAC-1 OUTDOOR UNIT | 6530 | | | 55 | 70/3 | 80/3 | 56 | 6850 | | | PAC-2 OUTDOOR UNIT |
| | | 6530 | | 57 | | | 58 | | 6850 | | |
| | | | 6530 | 59 | | | 60 | | | 6850 | |
| SUB-TOTAL | 14800 | 14000 | 17800 | | | | | 17650 | 18250 | 17850 | SUB-TOTAL |
| VOLTAGE : 120/208V, 3PH, 4W | PANEL TYPE : AQ | | | TOTAL VA - A | | 32450 | | LOCATION | | STORAGE 112 | |
| MAIN BREAKER : MCB | MAIN BUS : 400A | | | TOTAL VA - B | | 32250 | | TOTAL CONNECTED LOAD | | | |
| MOUNTING : SURFACE | A.I.C. RATING : 42K | | | TOTAL VA - C | | 35650 | | 278.75 A | | | |
| NOTES : | ENCLOSURE : NEMA 1 | | | TOTAL VA | | 100350 | | | | | |

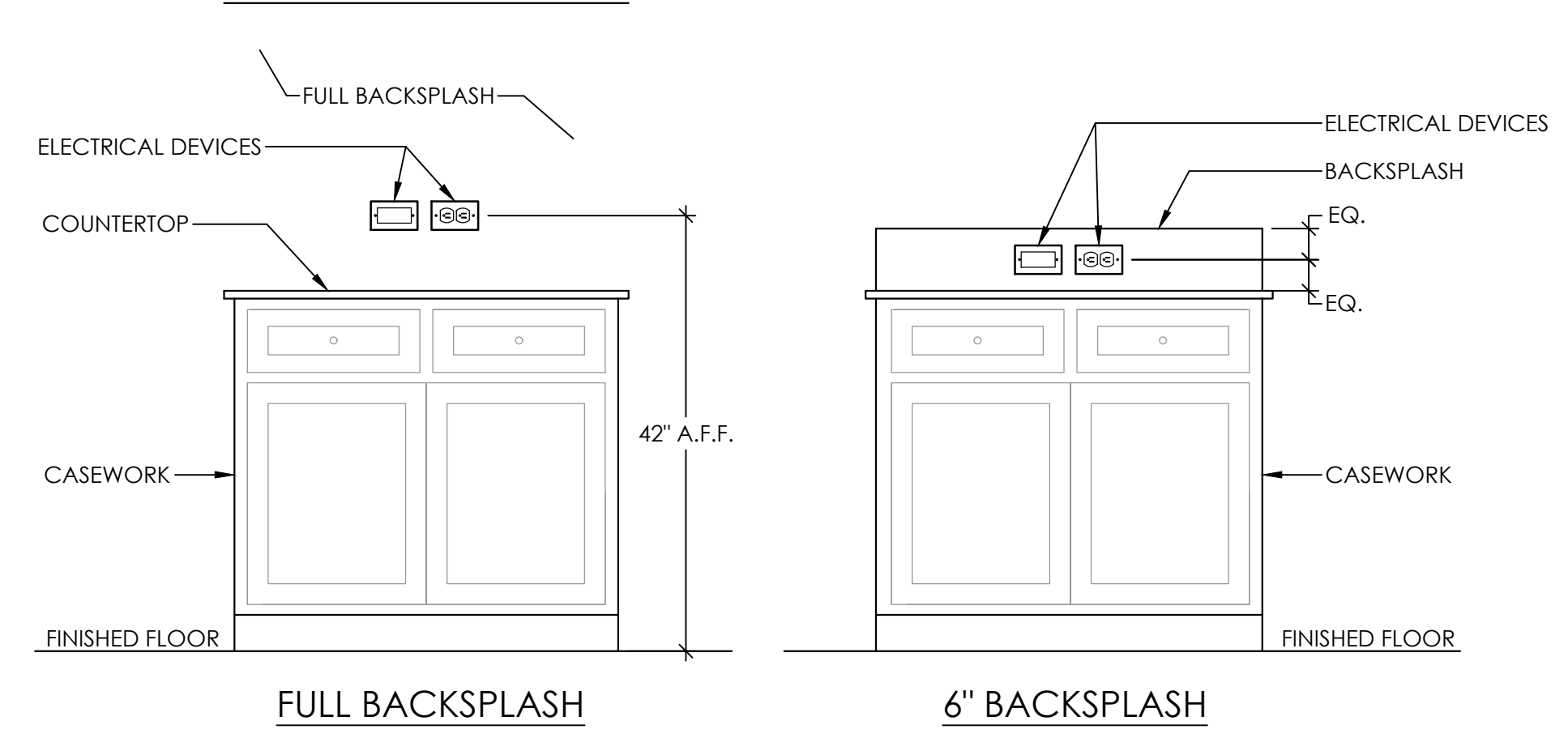


1
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NOT TO SCALE

TYPICAL CONDUIT LABELING DETAIL

NOTES:

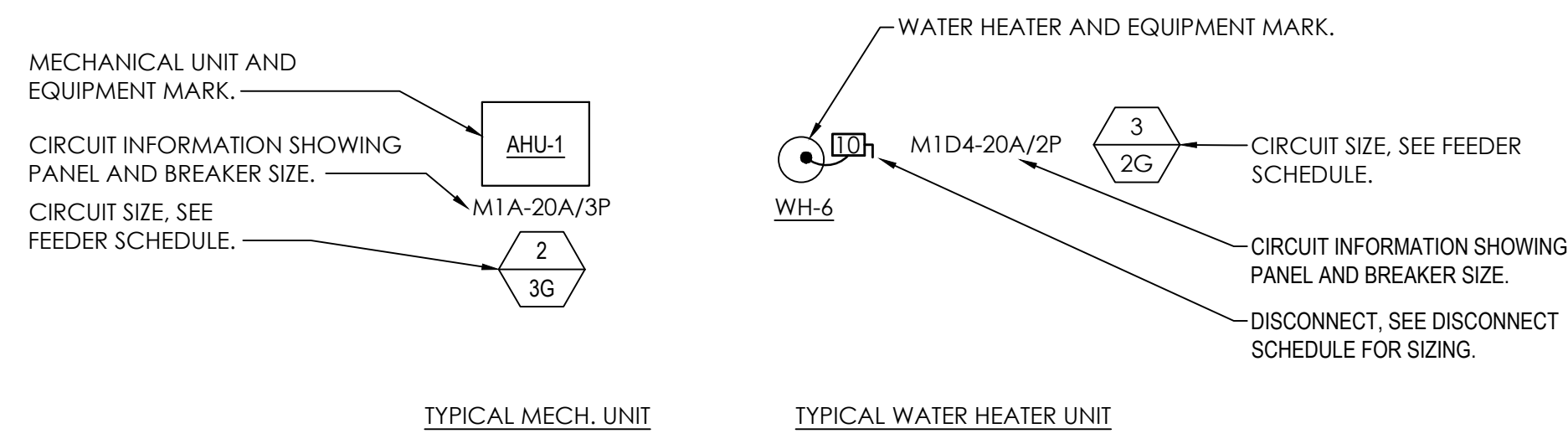
- THIS APPLIES TO ALL BRANCH FEEDER CONDUITS FEEDING MECHANICAL EQUIPMENT, OTHER MAJOR ELECTRICAL EQUIPMENT AND PANELS. 20A/1P BRANCH CIRCUITS DO NOT HAVE TO BE LABELED, ANY CONDUIT 1" AND LARGER MUST BE LABELED LEAVING ALL PANELS.
- ALL LABELS MUST BE PRE-PRINTED LABELS OF THE SAME SIZE AND TEXT.



2
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NOT TO SCALE

TYPICAL ELECTRICAL DEVICE INSTALLATION IN BACKSPLASH DETAIL

NOTES:

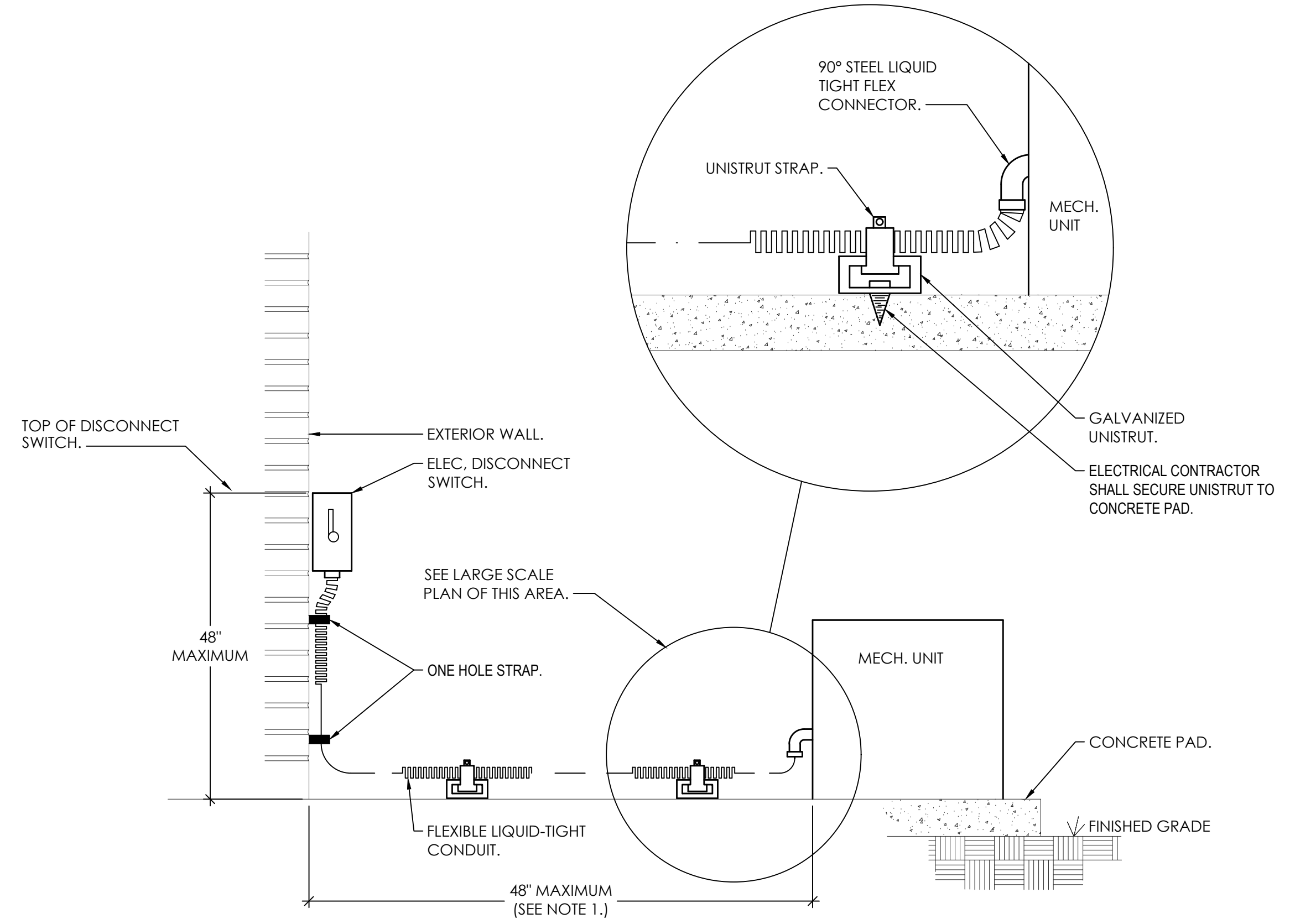


3
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NOT TO SCALE

TYPICAL MECHANICAL EQUIPMENT ELECTRICAL DETAIL

NOTES:

- THIS DETAIL IS TYPICAL FOR ALL MECHANICAL/PLUMBING EQUIPMENT INCLUDING BUT NOT LIMITED TO AIR HANDLERS, MINI SPLITS, ROOF TOP UNITS, WATER HEATERS, ETC.
- IF NO DISCONNECT IS SHOWN, UNIT IS FURNISHED WITH INTEGRAL DISCONNECT FROM MANUFACTURER OR IS IN SIGHT OF ELECTRICAL PANEL. MAKE ELECTRICAL CONNECTIONS PER MANUFACTURER'S REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL VERIFY UNITS HAVE INTEGRAL DISCONNECT WITH MECHANICAL CONTRACTOR.

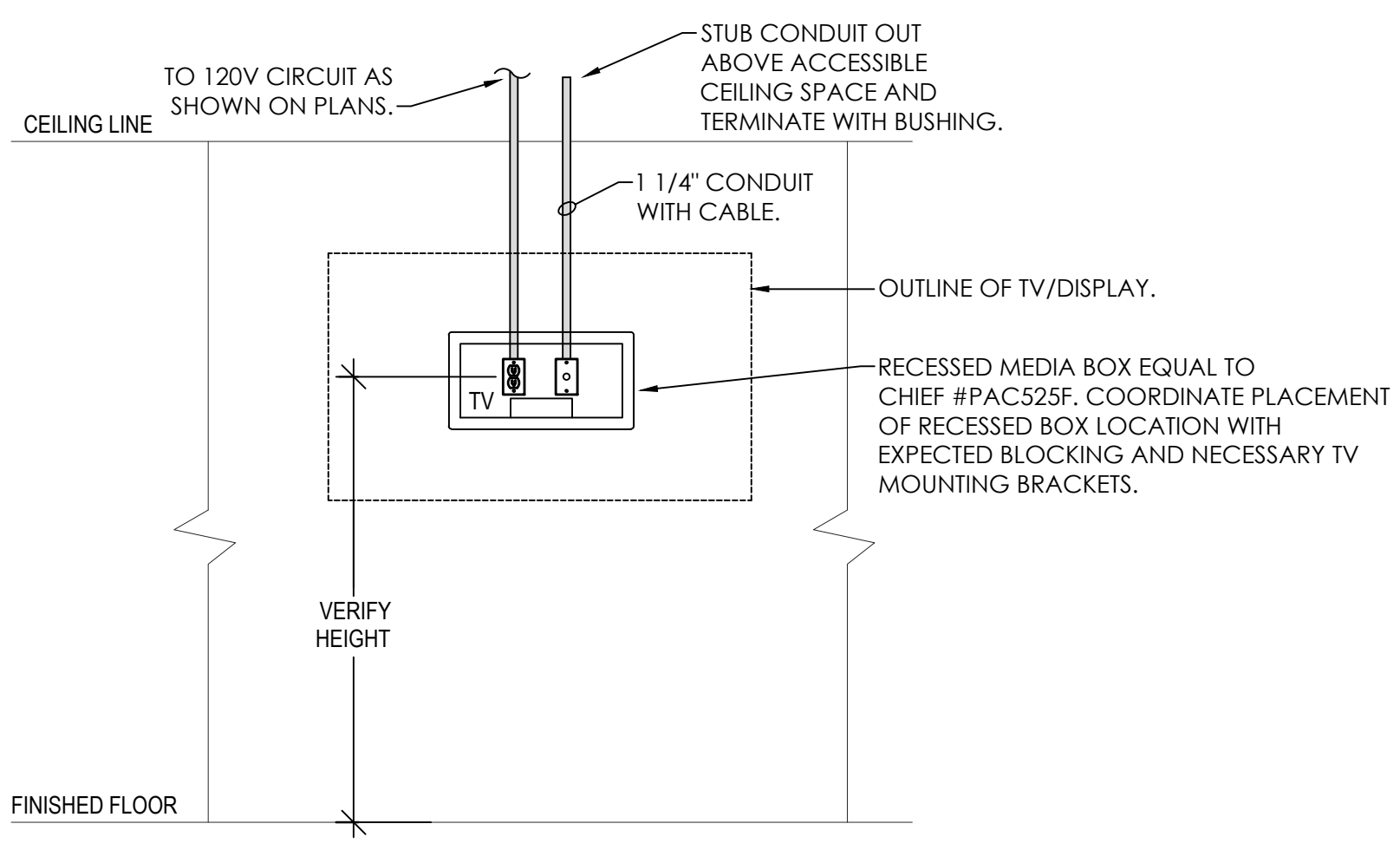


4
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NOT TO SCALE

TYP. MECH. UNIT CONNECTION DETAIL

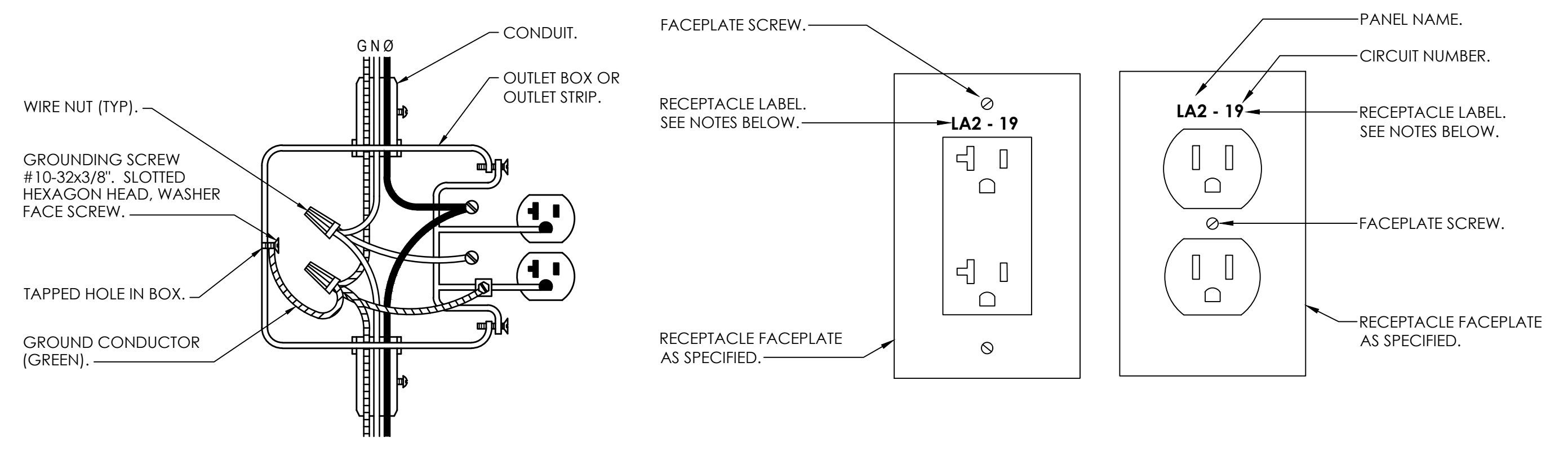
NOTE:

- FOR DISTANCES GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE TO WITHIN 6" OF MECHANICAL UNIT, STUB-UP WITH RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECHANICAL UNIT, WITH CONNECTION MADE AT UNIT AS SHOWN ABOVE.



5
E0.4
NOT TO SCALE

TYPICAL TV OUTLET DETAIL



7
E0.4
NOT TO SCALE

TYPICAL RECEPTACLE & FACEPLATE DETAIL

NOTES:

- NEUTRAL AND GROUND CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICES WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.
- RECEPTACLE FACEPLATES SHALL BE LABELED WITH THE PANEL NAME AND CIRCUIT NUMBER IT IS FED FROM.
- LETTERING SHALL BE A MINIMUM OF 3/16" HIGH.
- STAINLESS STEEL FACEPLATE LETTER (FILL) COLOR:
NORMAL = WHITE.
EMERGENCY = RED.
STAINLESS STEEL FACEPLATE LABELS SHALL BE ENGRAVED.
- PLASTIC FACEPLATE LETTER (FILL) COLOR:
NORMAL = BLACK.
EMERGENCY = RED.
PLASTIC FACEPLATE LABELS SHALL BE LASER-PRINTED ON CLEAR SELF ADHESIVE VINYL.

PAPER STICK ON NUMBERS WILL NOT BE ACCEPTED.

PANELBOARD SCHEDULE NOTES

- PANELBOARD DESIGNATIONS INDICATED IN SCHEDULES ARE THOSE OF ABB. EQUAL EQUIPMENT BY OTHER MANUFACTURERS WILL BE CONSIDERED, IF OTHER MANUFACTURER'S PANELS ARE TO BE USED, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SPACE REQUIREMENTS.
- EACH PANELBOARD SHALL HAVE AN INTEGRATED EQUIPMENT RATING EQUAL TO THE LOWEST A.I.C. OF ANY CIRCUIT BREAKER IN PANEL.
- WHERE CURRENT LIMITING CIRCUIT BREAKERS ARE USED, THEY SHALL BE SERIES RATED FOR DOWNSSTREAM PROTECTION. SUBMITTAL DATA SHALL INCLUDE A CURRENT U.L. APPROVED TABLE OF SERIES CONNECTED RATINGS OF ALL CIRCUIT BREAKERS TO BE USED. ALL 120/208V, 3PH, 4W PANELS SHALL BE SERIES RATED UNLESS NOTED OTHERWISE.
- ALL PANELS SHALL HAVE DOOR IN DOOR CONSTRUCTION. DOOR SHALL BE INSTALLED CORRECTLY PER MANUFACTURER'S INSTRUCTIONS. WHEN HINGED COVER DOOR IS OPENED, INTERIOR DEAD FRONT OPENS WITH DOOR.
- ALL BRANCH CIRCUIT BREAKERS SHALL BE BOLT ON TYPE.
- ALL CIRCUIT BREAKERS 100A AND ABOVE SHALL BE SOLID STATE BREAKERS TYPE LSI.
- CONTRACTOR TO PROVIDE ALL BRANCH CIRCUIT NUMBERS USING PERMANENT CIRCUIT MARKERS WITH THE PROPER CIRCUIT NUMBER ATTACHED NEXT TO EACH BREAKER. STICK ON NUMBERS WILL NOT BE APPROVED. ON RELIA BRANCH BREAKERS, CONTRACTOR TO PROVIDE FIELD MOUNTED PHENOLIC NAMEPLATE INDICATING EACH LOAD. NO HAND WRITING VISIBLE ON THE PANEL WILL BE ACCEPTABLE.
- ALL BLANK SPACES SHALL BE ASSUMED BUSSED SPACE FOR EACH PANELBOARD.
- PANEL SHALL HAVE SURGE PROTECTION DEVICE. SURGE PROTECTION DEVICE MUST BE INSTALLED INTERNALLY TO THE ELECTRICAL DISTRIBUTION EQUIPMENT AND SHIPPED FROM THE MANUFACTURER'S FACTORY AS A COMPLETE U.L. LISTED ASSEMBLY. PANELBOARD SPD'S SHALL BE ABB TMENVN/100/200, OR EQUAL. VOLTAGES FOR DEVICES SHALL BE INDICATED ON THE PANELBOARD SCHEDULES AND SINGLE LINE DIAGRAM. **THIS NOTE APPLIES TO ALL PANELS.**
- PROVIDE U.L.S.E. (U.L. SERVICE ENTRANCE) LABEL. THIS NOTE ONLY APPLIES TO PANELS NOTED SO.
- A.I.C. RATING, SR STANDS FOR SERIES RATED.
- THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY TO MINIMIZE CONDUCTOR FILL IN THE CAN. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
- PROVIDE THE PROPERLY SIZED CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) FOR THE NUMBER AND SIZE CIRCUITS INDICATED.
- EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL. ENGINEER WILL NOT ACCEPT JOB UNTIL THESE NAMEPLATES ARE PROVIDED.
- PROVIDE TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING AND FOR LIGHTING AND RECEPTACLE CIRCUITS THE ROOM NUMBERS THAT CIRCUIT IS SERVING SHALL BE INCLUDED IN DIRECTORY.
- ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH N.E.C. 110.16 REGARDING POTENTIAL HAZARDS OF ARC FLASH.
- EACH SERVICE EQUIPMENT MAIN PANEL SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKINGS SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. CONTRACTOR IS RESPONSIBLE FOR CALCULATION AND PROPER MARKINGS AND MUST COMPLY WITH NEC 110.24. FIELD MARKINGS SHALL UTILIZE THE SAME METHOD AS PANELBOARD NAMEPLATES OR LABELS AND SHALL BE ON OUTSIDE COVER OF NEMA 1 PANELS AND ON INSIDE OF NEMA 3R PANELS.
- PROVIDE FACTORY INSTALL POWER METERING EQUIPMENT EQUAL TO ABB MODEL #EPM2000. THIS NOTE ONLY APPLIES WHERE NOTED SO.
- CONTRACTOR SHALL INSTALL GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTION CIRCUIT BREAKERS AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- BREAKERS NOTED WITH *GF ARE REQUIRED TO BE GROUND-FAULT TYPE BREAKERS.
- BREAKERS NOTED WITH *ST ARE REQUIRED TO BE SHUNT-TRIP TYPE BREAKERS.

6
E0.4
NOT TO SCALE

TYPICAL ELECTRICAL DEVICE DETAIL

NOTES:

- THIS DETAIL APPLIES WHERE EVER MULTIPLE DEVICES ARE SHOWN NEXT TO EACH OTHER ON THE SAME WALL.
- SEE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF DEVICES.
- ALL CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR A RESOLUTION.



SHEET TITLE: PANELBOARD SCHEDULE, DETAILS & NOTES



PROJ. MGR.: LR
DRAWN: LR

DATE: 04-28-2026

REVISIONS

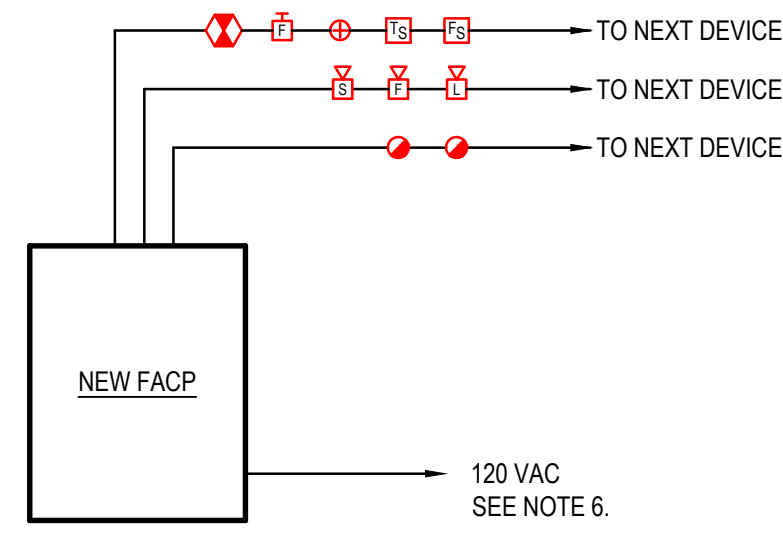
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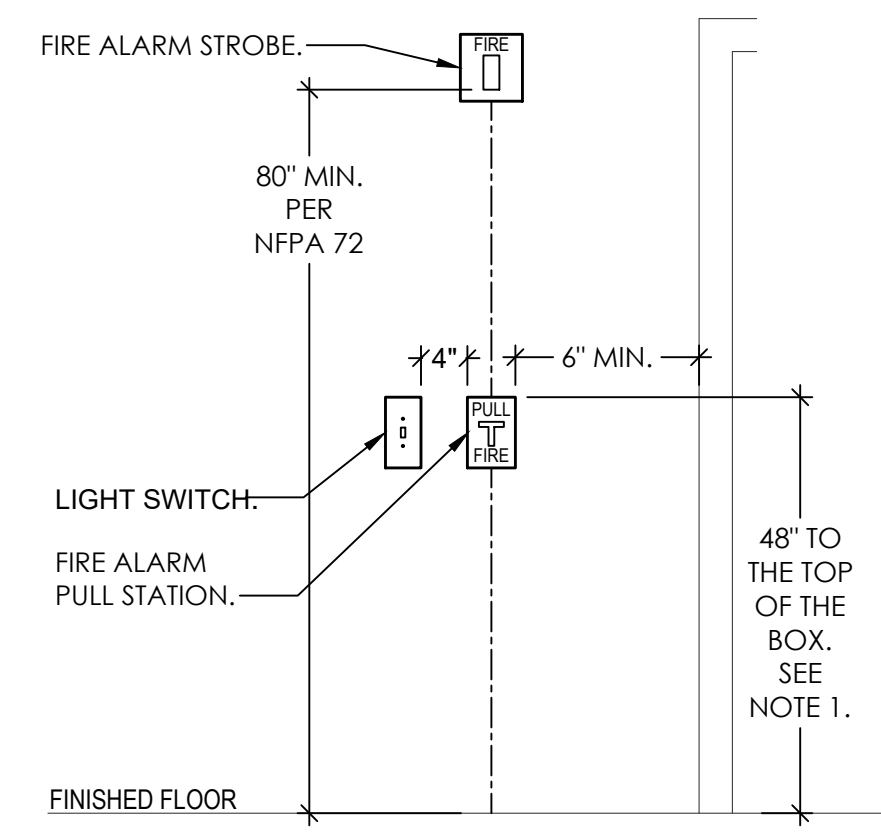
FIRE ALARM SYSTEM GENERAL NOTES:

1. 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.
2. INSTALLATION SHALL COMPLY WITH ADA, NEC, NFPA, AND UL.
3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC., SHALL BE GROUNDED.
4. 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
SIGNALING LINE CIRCUIT (SLC) - 24V DC
5. ALL CLASS "B" CIRCUITS SHALL BE INSTALLED SUCH THAT THE OUTGOING AND RETURN CONDUCTORS, EXITING FROM AND RETURNING TO THE CONTROL UNIT RESPECTIVELY, ARE ROUTED SEPARATELY AND NOT RUN IN THE SAME CABLE OR RACEWAY.
6. 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.
7. A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
8. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ALL FIRE ALARM DEVICE QUANTITIES FROM AUXILIARY DRAWINGS. DO NOT USE THIS RISER FOR DEVICE COUNTS.
9. PROVIDE ADDITIONAL NOTIFICATION APPLIANCE CIRCUIT PANELS, AMPLIFIERS, POWER SUPPLIES, ETC. FOR FUTURE CAPACITY TO HAVE SYSTEM WORK CORRECTLY AS ONE SYSTEM.
10. PROVIDE EMERGENCY BATTERIES CAPABLE OF RUNNING THE COMPLETE FIRE ALARM SYSTEM IN ALARM MODE.
11. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". ALL FIRE ALARM CONDUIT SHALL BE RED.
12. PROVIDE ALL FIRE ALARM JUNCTION BOXES WITH RED COVER. STENCIL THE LETTERS "FA" IN 2" HIGH LETTERS ON EACH BOX COVER.
13. FIRE ALARM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.



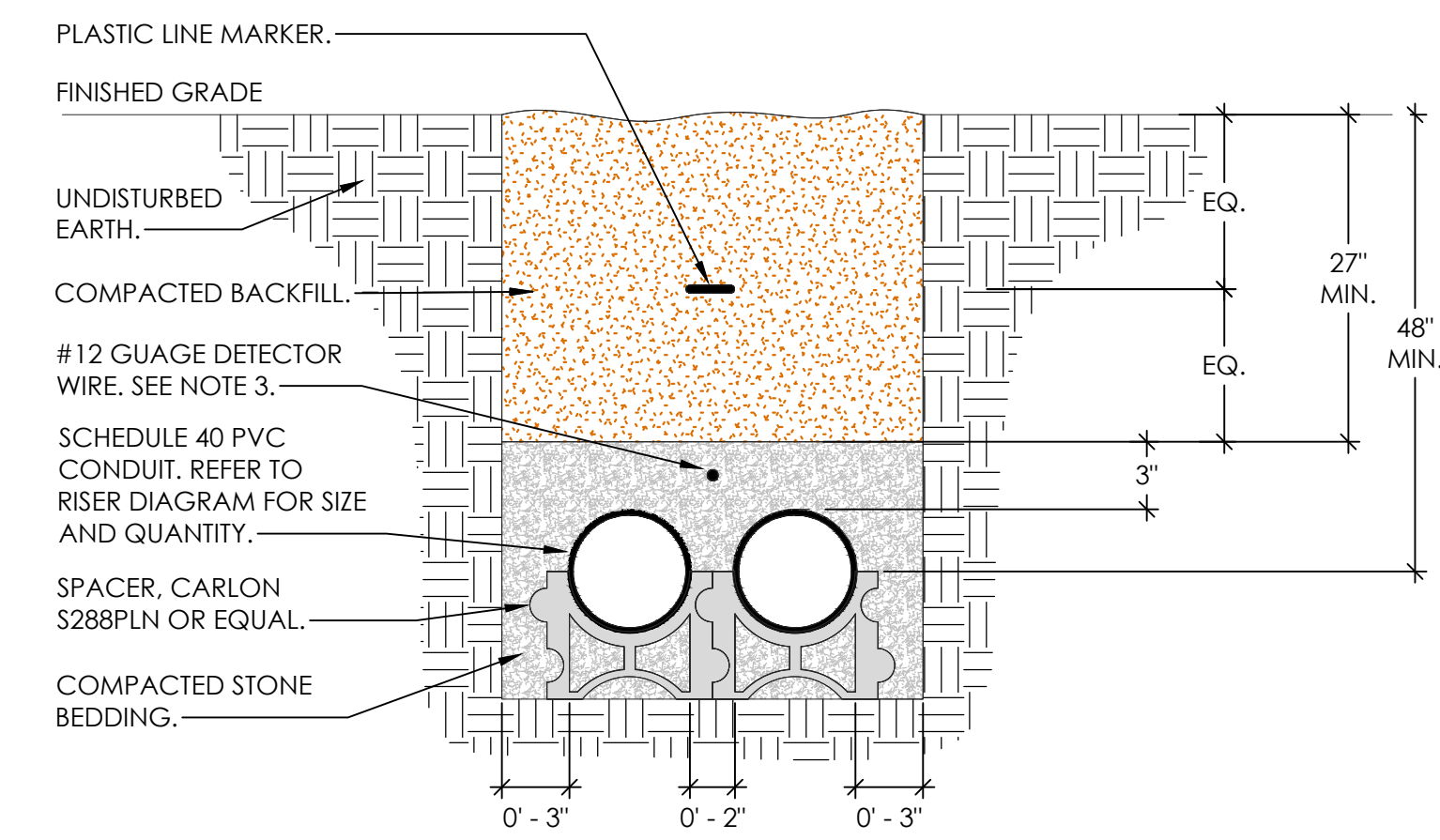
1 E0.5 FIRE ALARM SYSTEM RISER DIAGRAM

- NOT TO SCALE
- NOTES:
1. PROVIDE WIRING IN RED CONDUIT PER MANUFACTURER'S REQUIREMENTS.
 2. SEE FLOOR PLAN FOR LOCATION AND QUANTITY OF DEVICES.
 3. PROVIDE ADDRESSABLE SYSTEM.
 4. DEVICES ARE TO BE RED WITH "ALARM" ENGRAVING TO COMPLY WITH MASS NOTIFICATION AND FIRE ALARM USE.
 5. PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSION ON ALL COPPER CABLING LINES ENTERING/LEAVING THE BUILDING FOR THE FIRE ALARM SYSTEM.
 6. PROVIDE 120V 20AMP CIRCUIT CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM NEARBY PANEL BOARD WITH AVAILABLE SPACE. CIRCUIT SHALL BE 2#12 & 1#12(G) - 1/2" C. ROUTED CONCEALED. CIRCUIT BREAKER TO HAVE RED HANDLE AND IS TO BE LOCKABLE.



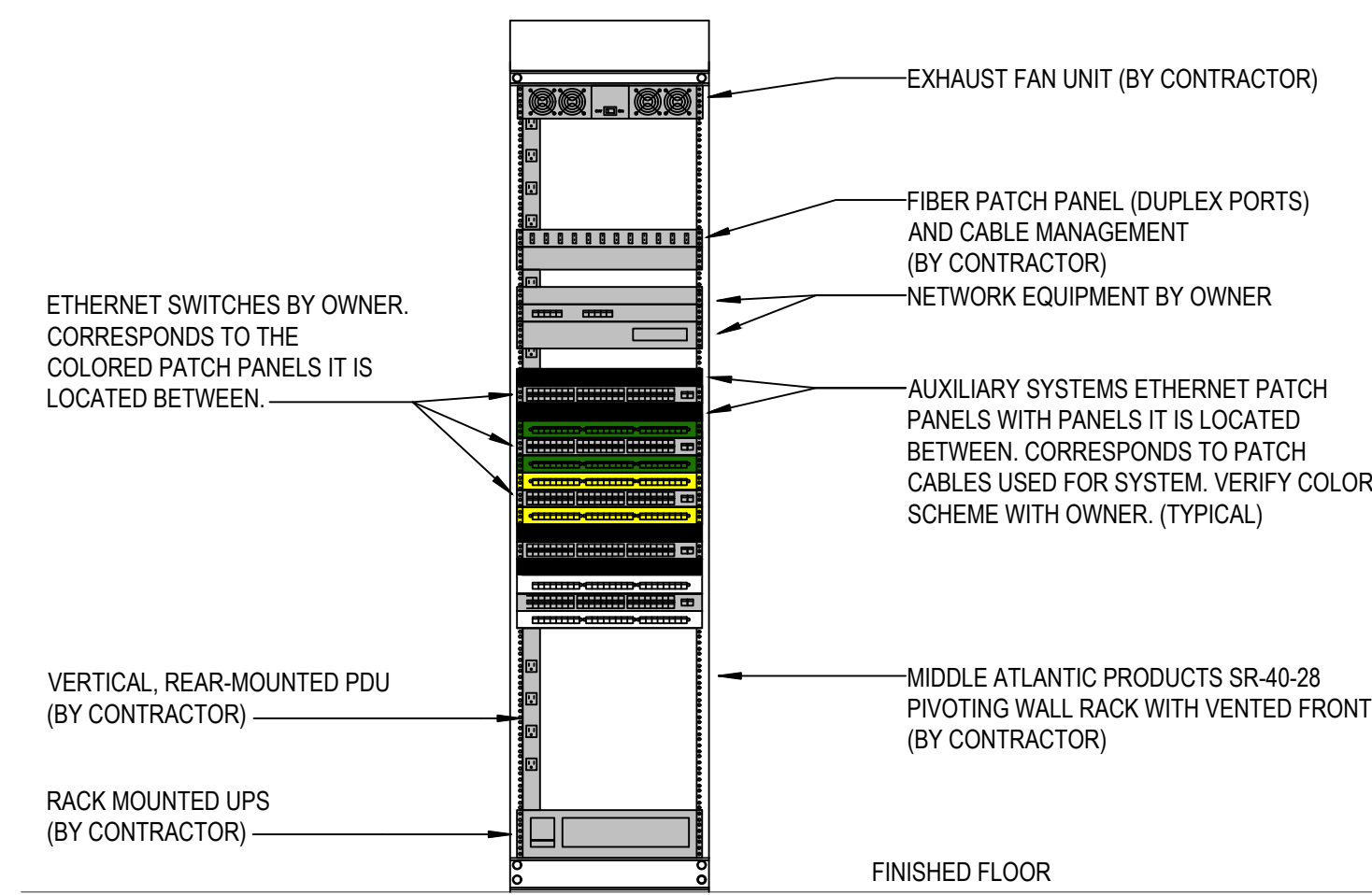
2 E0.5 TYPICAL FIRE ALARM DEVICE INSTALLATION DETAIL

- NOT TO SCALE
- NOTES:
1. FIRE ALARM DEVICES SHALL BE MOUNTED PER NFPA 72. THE PULL STATION HANDLE SHALL BE MOUNTED BETWEEN 42" AND 48" ABOVE THE FINISH FLOOR. THE STROBE SHALL BE MOUNTED BETWEEN 80" AND 96" ABOVE THE FINISH FLOOR.
 2. THE LIGHT SWITCH MAY NOT APPLY IN ALL CASES.
 3. IF FIRE ALARM DEVICES ARE SHOWN IN THE MIDDLE OF A WALL ON THE FLOOR PLANS, THEN THE DOOR EDGE REQUIREMENTS DO NOT APPLY.
 4. ALL CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR A RESOLUTION.

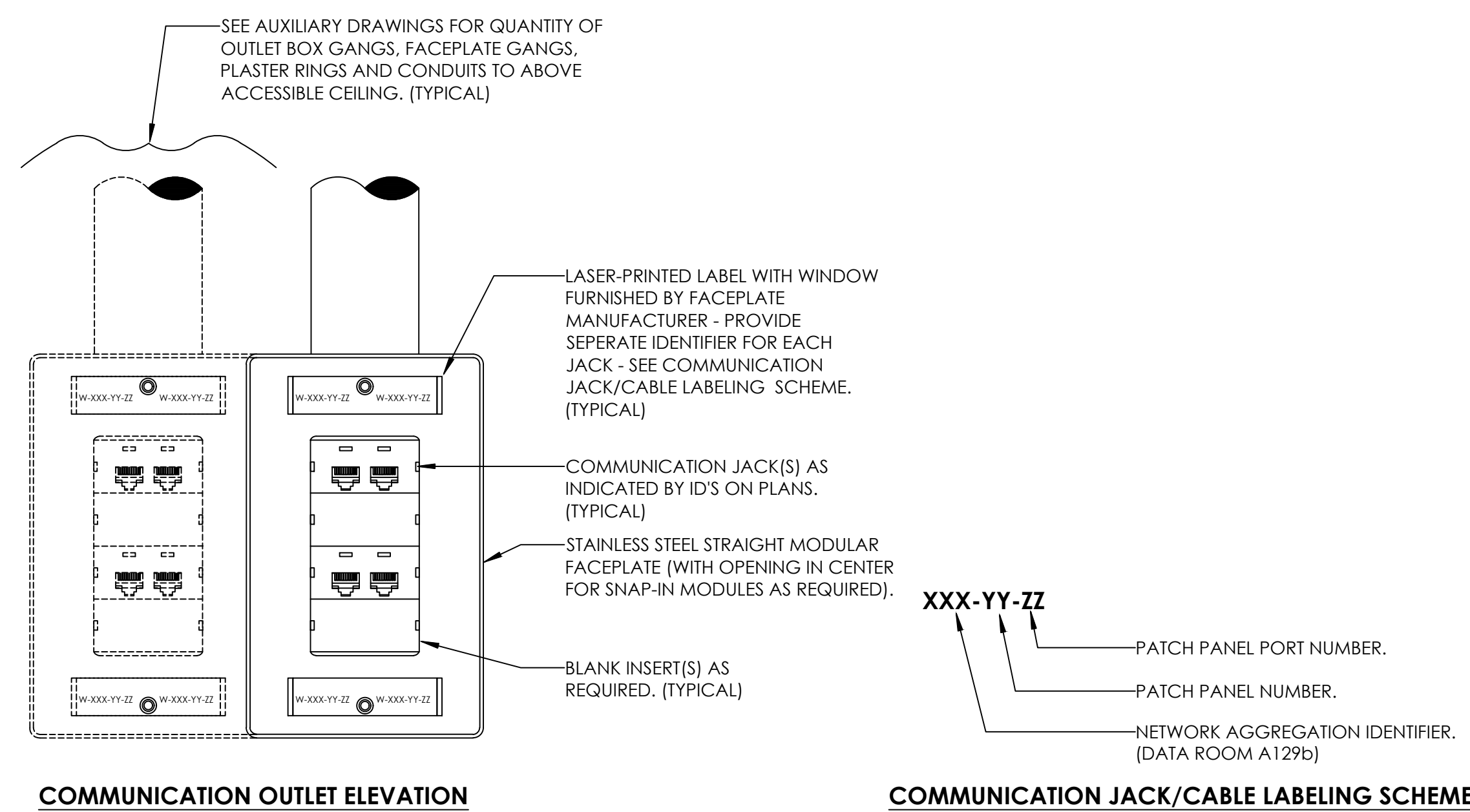


3 E0.5 PRIMARY DUCT BANK DETAIL

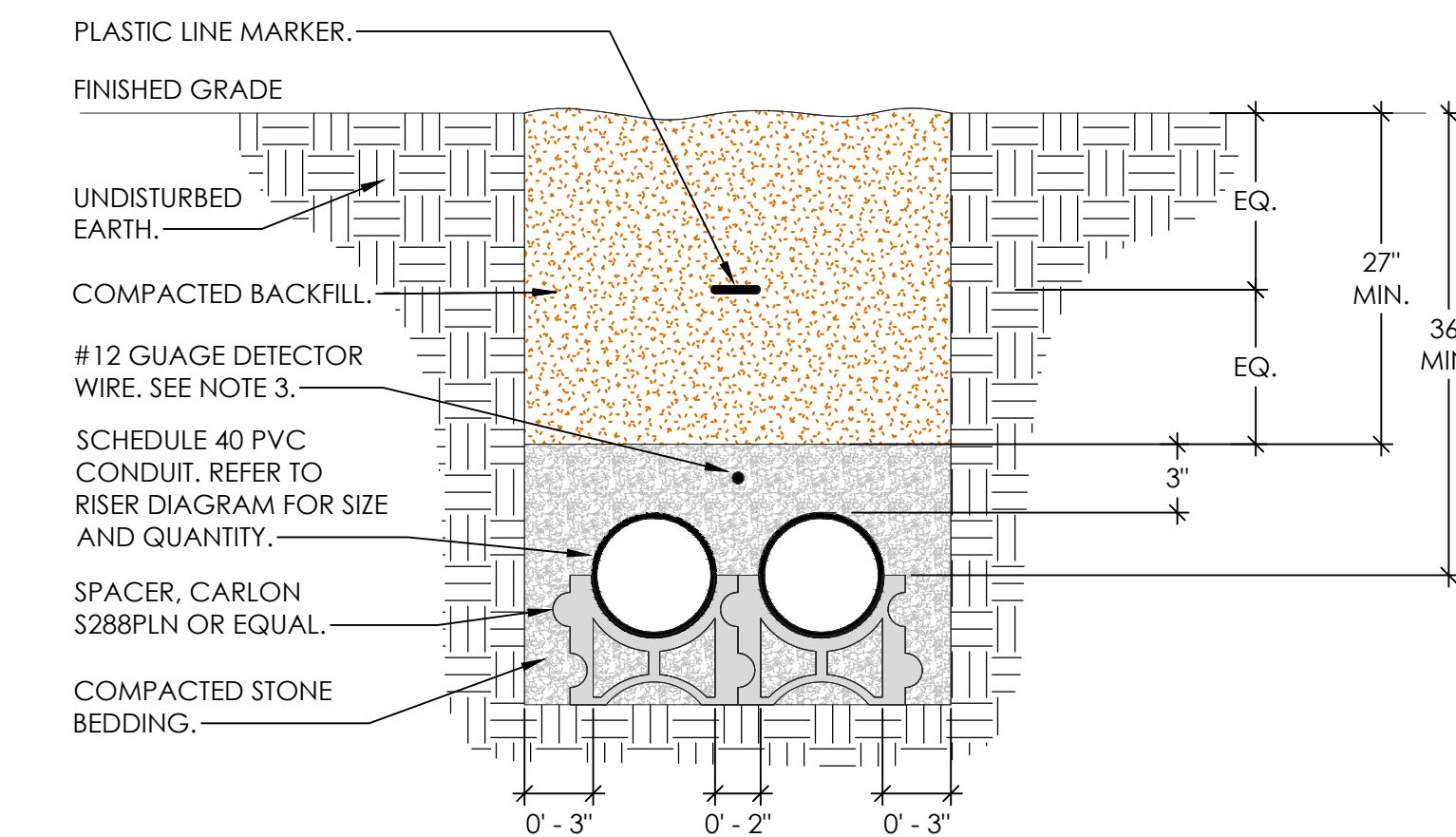
- NOT TO SCALE
- NOTES:
1. PLASTIC LINE MARKER SHALL BE RED WITH BLACK WRITING THAT READS "WARNING HIGH VOLTAGE".
 2. VERIFY CONDUIT DEPTHS WITH LOCAL UTILITY COMPANY.
 3. DETECTOR WIRE SHALL HAVE A CONTINUOUS OUTER PROTECTIVE JACKET AND MARKED WITH THREE(3) PURPLE STRIPES ON EACH END AND A LABEL MARKED "DETECTOR WIRE".



4 E0.5 TYPICAL DATA RACK LAYOUT DETAIL

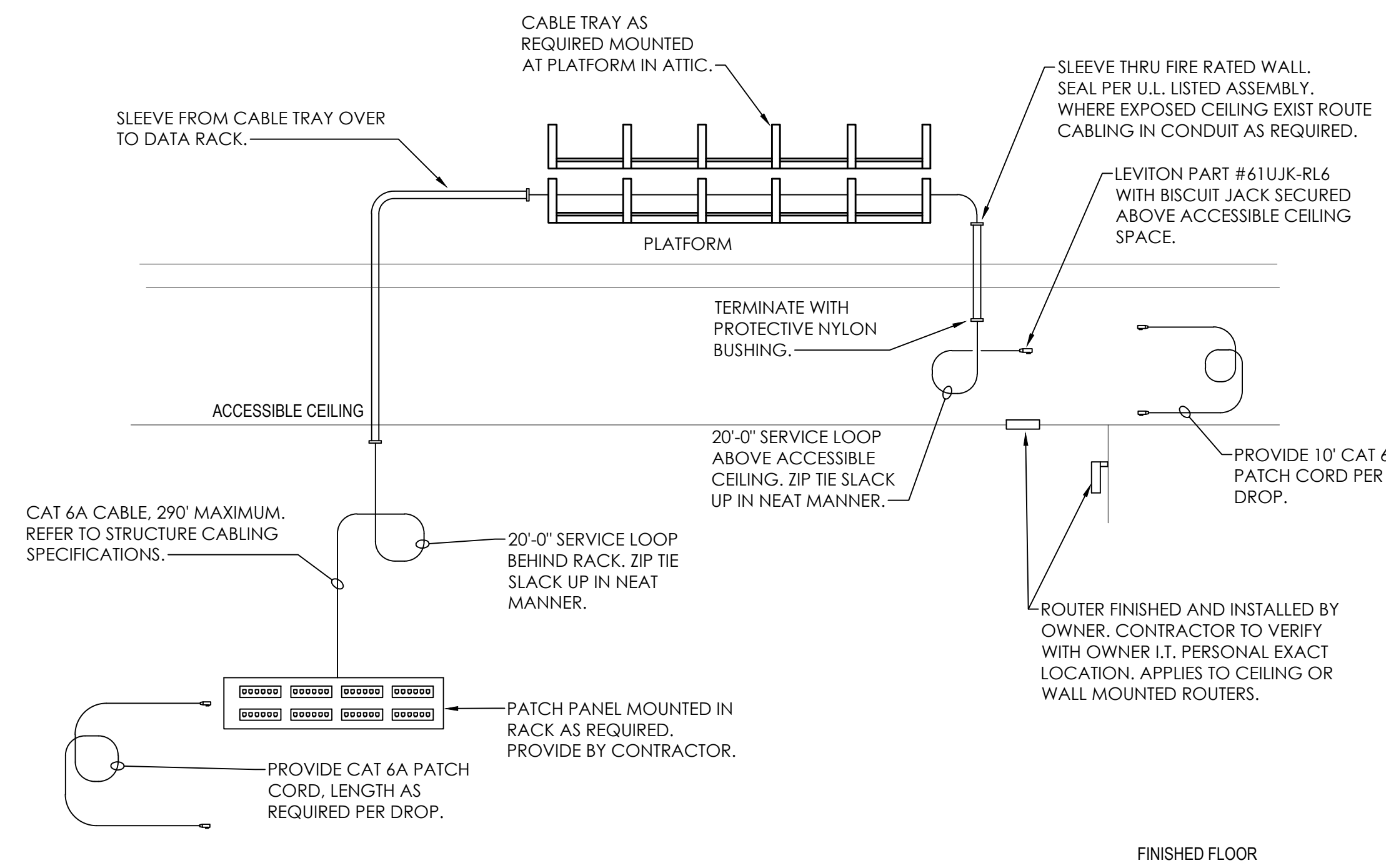


5 E0.5 TYPICAL DATA OUTLET LABELING DIAGRAM

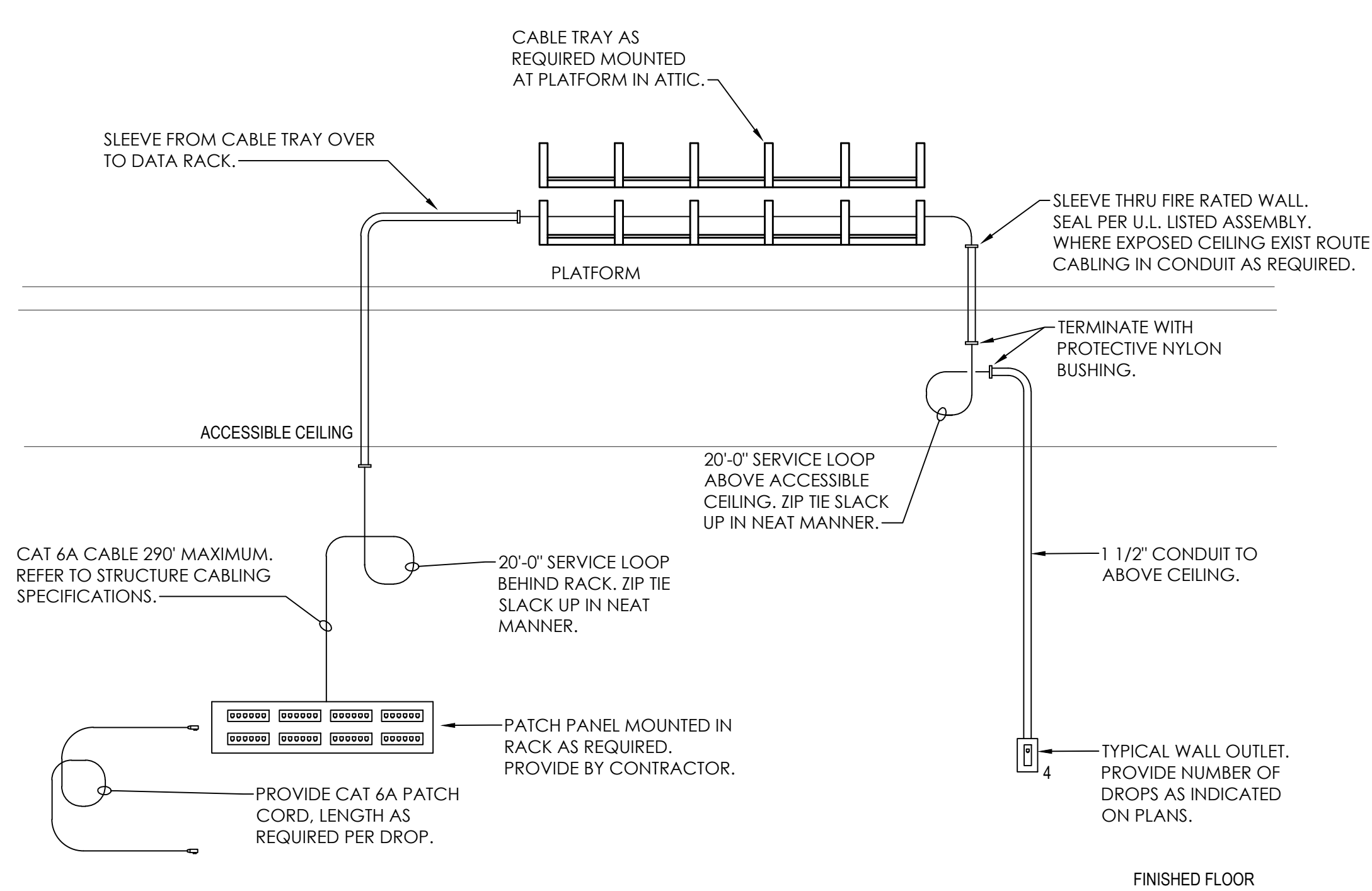


6 E0.5 TYPICAL SECONDARY DUCT BANK DETAIL

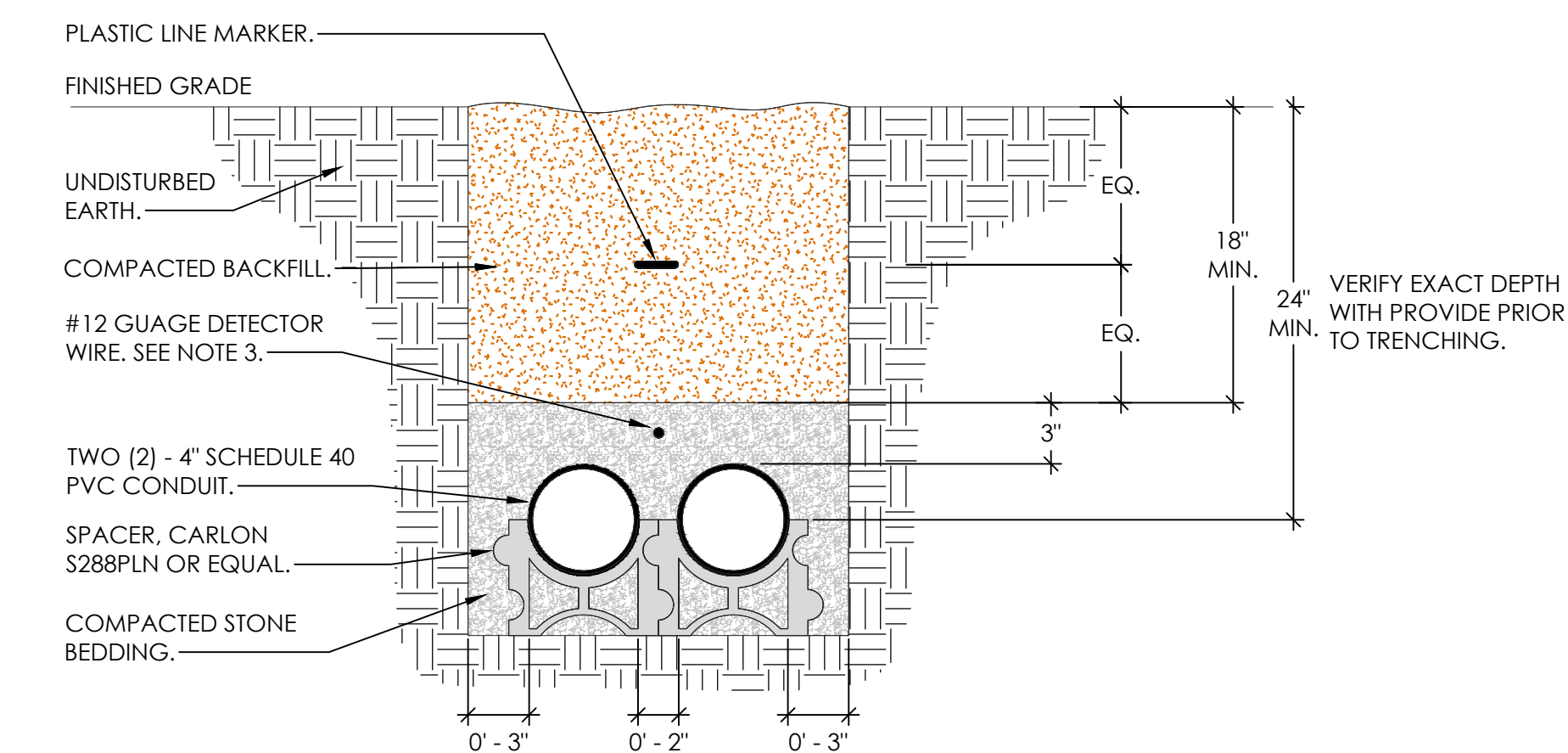
- NOT TO SCALE
- NOTES:
1. PLASTIC LINE MARKER SHALL BE RED WITH BLACK WRITING THAT READS "WARNING HIGH VOLTAGE".
 2. VERIFY CONDUIT DEPTHS WITH LOCAL UTILITY COMPANY.
 3. DETECTOR WIRE SHALL HAVE A CONTINUOUS OUTER PROTECTIVE JACKET AND MARKED WITH THREE(3) PURPLE STRIPES ON EACH END AND A LABEL MARKED "DETECTOR WIRE".



7 E0.5 TYPICAL WIRELESS ACCESS POINT RISER

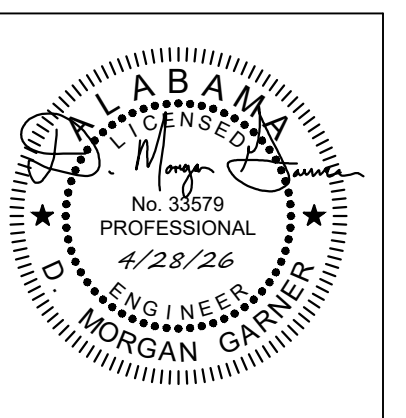


8 E0.5 STRUCTURE CABLE RISER DIAGRAM



9 E0.5 TYPICAL FIBER DUCT BANK DETAIL

- NOT TO SCALE
- NOTES:
1. PLASTIC LINE MARKER SHALL BE RED WITH BLACK WRITING THAT READS "FIBER COMMUNICATIONS".
 2. VERIFY CONDUIT DEPTHS WITH LOCAL UTILITY COMPANY.
 3. DETECTOR WIRE SHALL HAVE A CONTINUOUS OUTER PROTECTIVE JACKET AND MARKED WITH THREE(3) PURPLE STRIPES ON EACH END AND A LABEL MARKED "DETECTOR WIRE".

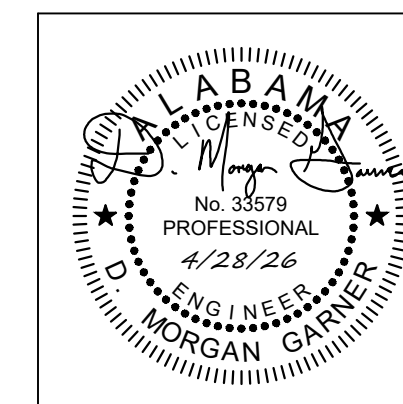
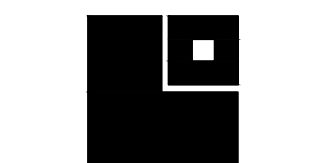


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| PROJ. MGR.: | LR |
| DRAWN: | LR |
| DATE: | 04-28-2026 |
| REVISIONS: | |

JOB NO. 25-320

SHEET NO.

E0.5

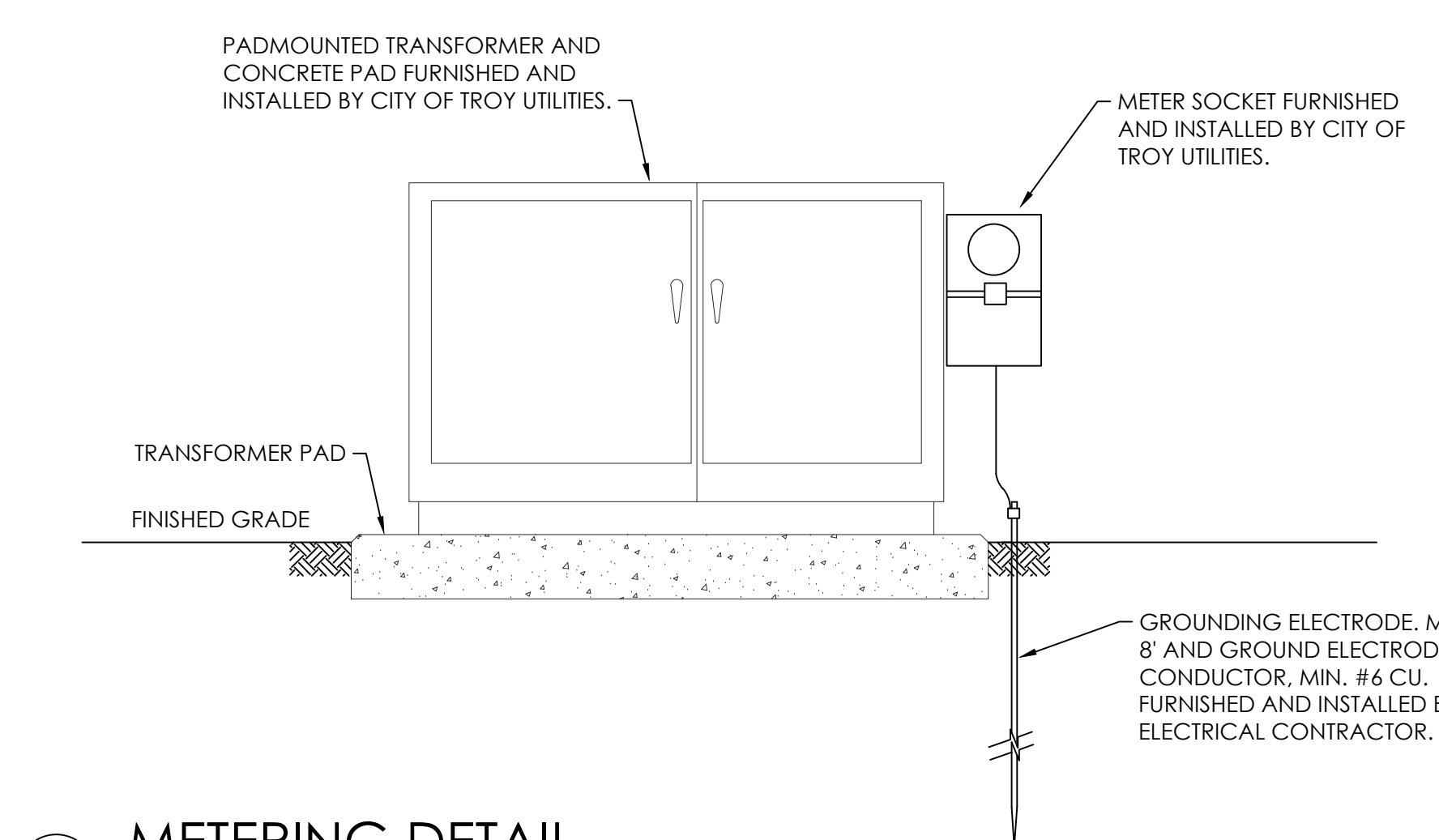


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| PROJ. MGR.: LR |
| DRAWN: LR |
| DATE: 04-28-2026 |
| REVISIONS |

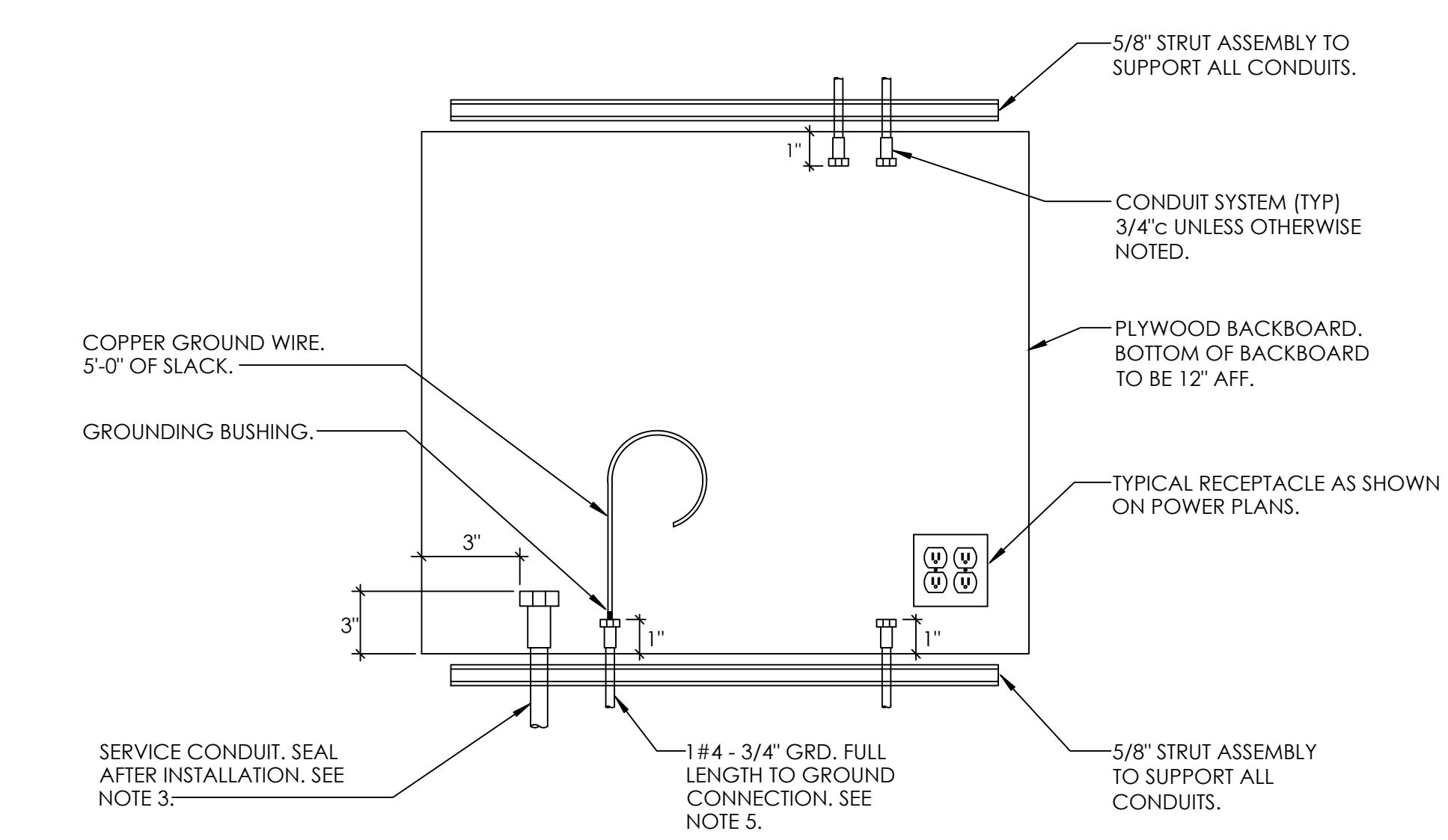
JOB NO. 25-320

SHEET NO:

E0.6



2 E0.6 METERING DETAIL NOT TO SCALE



5 E0.6 AUXILIARY SYSTEM BACKBOARD PROVISIONS DETAIL NOT TO SCALE

- NOTES:
1. ALL EMPTY CONDUITS SHALL BE FURNISHED WITH PULL WIRE.
 2. ALL CONDUIT ENDS TO CONTAIN A PLASTIC BUSHING (CONNECTOR AND BUSHING ASSEMBLY WHEN REQUIRED).
 3. ALL CONDUITS FROM EXTERIOR OR BELOW GRADE SHALL BE SEALED AFTER CABLE INSTALLATION, COMPOUNDS FOR SEALING DUCTS AND CONDUIT SHALL HAVE A PUTTY-LIKE CONSISTENCY WORKABLE WITH THE HANDS AT TEMPERATURES AS LOW AS 35 DEGREES F. SHALL NOT SLUMP AT A TEMPERATURE OF 300 DEGREES F. AND SHALL NOT HARDEN MATERIALLY WHEN EXPOSED TO THE AIR.
 4. PLYWOOD SHALL BE 3/4" EXTERIOR RATED AND CUT TO SIZE AS INDICATED, PAINT WITH 2 COATS OF FIRE-RETARDANT PAINT.
 5. THE GROUND CONNECTION SHALL BE MADE TO THE BUILDING GROUND SYSTEM TO ESTABLISH EQUAL POTENTIAL WITH THE GROUND ELECTRODE SYSTEM.

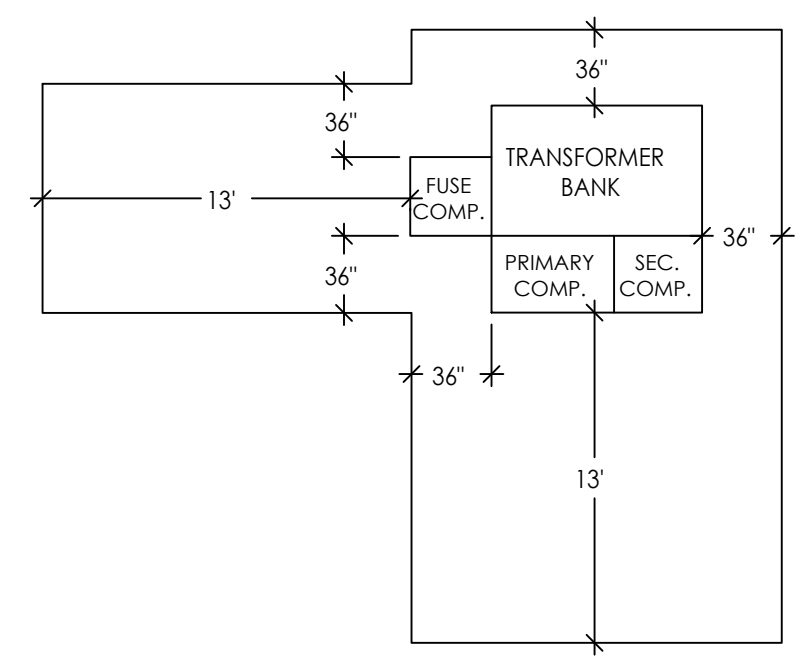
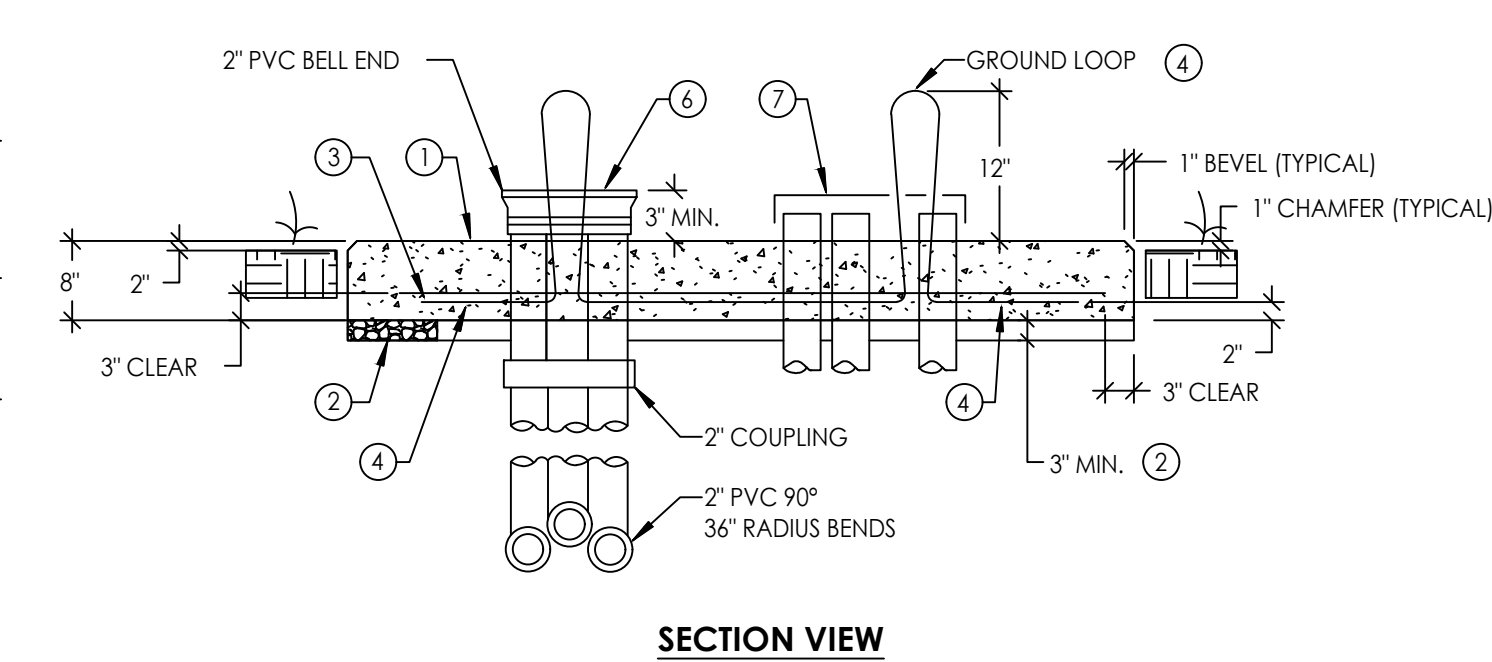
GENERAL NOTES:

1. THIS DETAIL IS TYPICAL ONLY. COORDINATE ACTUAL DIMENSIONS & REQUIREMENTS WITH THE UTILITY & ACTUAL TRANSFORMER TO BE FURNISHED.
2. SECONDARY AND METERING DUCT ENTRANCES MUST BE KEPT WITHIN THE BOUNDARY LINES SHOWN. NUMBER AND LOCATION OF SECONDARY DUCTS TO BE DETERMINED BY CITY OF TROY UTILITIES REPRESENTATIVE BEFORE PAD IS POURED. CITY OF TROY UTILITIES WILL DETERMINE CONDUIT SPACING.
3. FOR CLEARANCE TO OTHER STRUCTURES SEE MINIMUM CLEARANCE REQUIREMENTS. THERE SHALL BE NO ABOVE GROUND OBSTRUCTIONS SUCH AS FENCES, SHRUBS, PLANTS, GAS METERS, AIR CONDITIONERS, ETC. WITHIN 10 FEET OF THE FRONT OF THE TRANSFORMER OR WITHIN 3 FEET OF THE SIDES OR BACK.
4. CONTRACTOR SHALL COORDINATE WITH CITY OF TROY UTILITIES ENGINEERING DEPARTMENT FOR FURTHER REQUIREMENTS AND SPECIFICATIONS PRIOR TO CONSTRUCTION OF PAD.

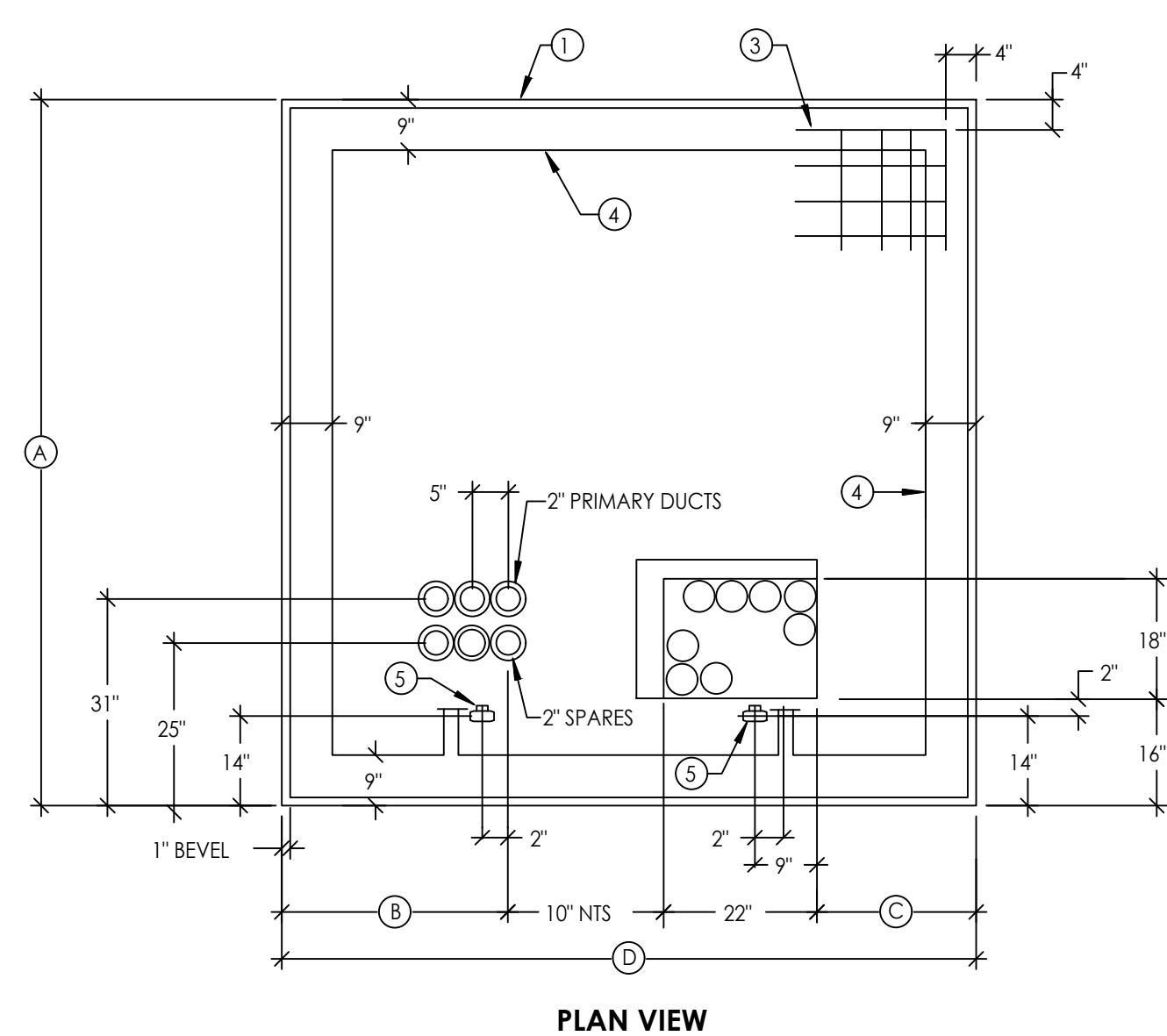
KEYED NOTES:

1. CONCRETE PAD, CONCRETE TO DEVELOP 3000 PSI COMPRESSIVE STRENGTH WITHIN 28 DAYS. OMIT 1 INCH BEVEL ON ALL EDGES FLUSH WITH OTHER CONCRETE WORK. SEE ARCHITECTURAL PAD DETAILS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. COMPACTED GRAVEL FILL PAD SHOULD BE POURED AGAINST A 3 INCH MINIMUM COMPACTED GRAVEL FILL THAT IS PLACED ON WELL COMPACTED EARTH. SEE ARCHITECTURAL PAD DETAILS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
3. #4 REBAR (GRADE 60) EQUALLY SPACE 6" EACH WAY.
4. #2/0 STRANDED BARE COPPER, CONTINUOUS GROUND BUS, TWO 3/4 INCH x 10 FOOT GALVANIZED GROUND RODS AND #2/0 COPPER GROUND BUS WIRE TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
5. 3/4" (19.05mm) x 10'-0"(3.08m) GROUND ROD. TWO 3/4 INCH x 10 FOOT GALVANIZED GROUND RODS AND #2/0 COPPER GROUND BUS WIRE TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
6. PRIMARY DUCTS - 2" PVC.
7. SECONDARY DUCTS. PROVIDE GROUNDING BUSHINGS ON EACH AND A CONTINUOUS GROUND BONDING CONDUCTOR.

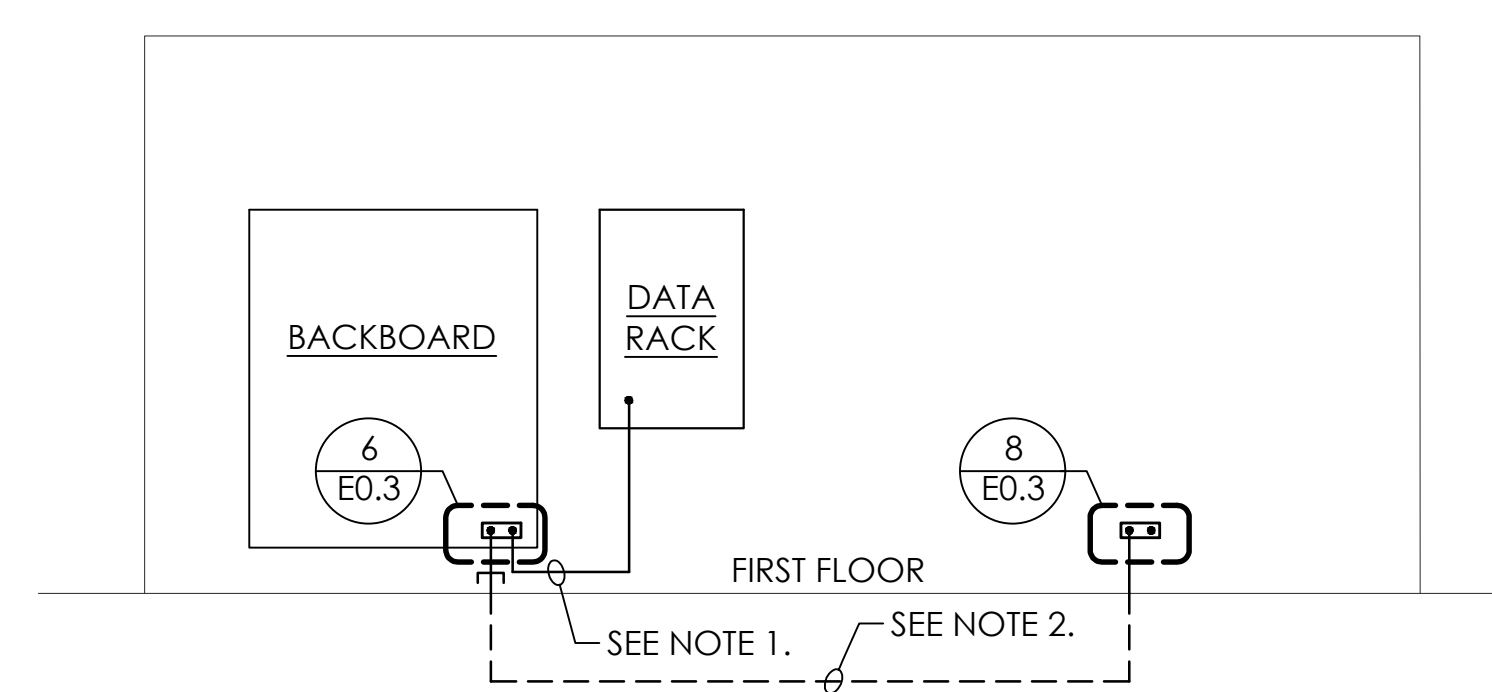
| DIMENSIONS | | | | |
|-----------------|------|-----|-----|-----|
| 208 OR 480 VOLT | A | B | C | D |
| 75-500 KVA | 90" | 24" | 16" | 72" |
| 750-2000 KVA | 144" | 36" | 28" | 96" |



MINIMUM CLEARANCE REQUIREMENTS

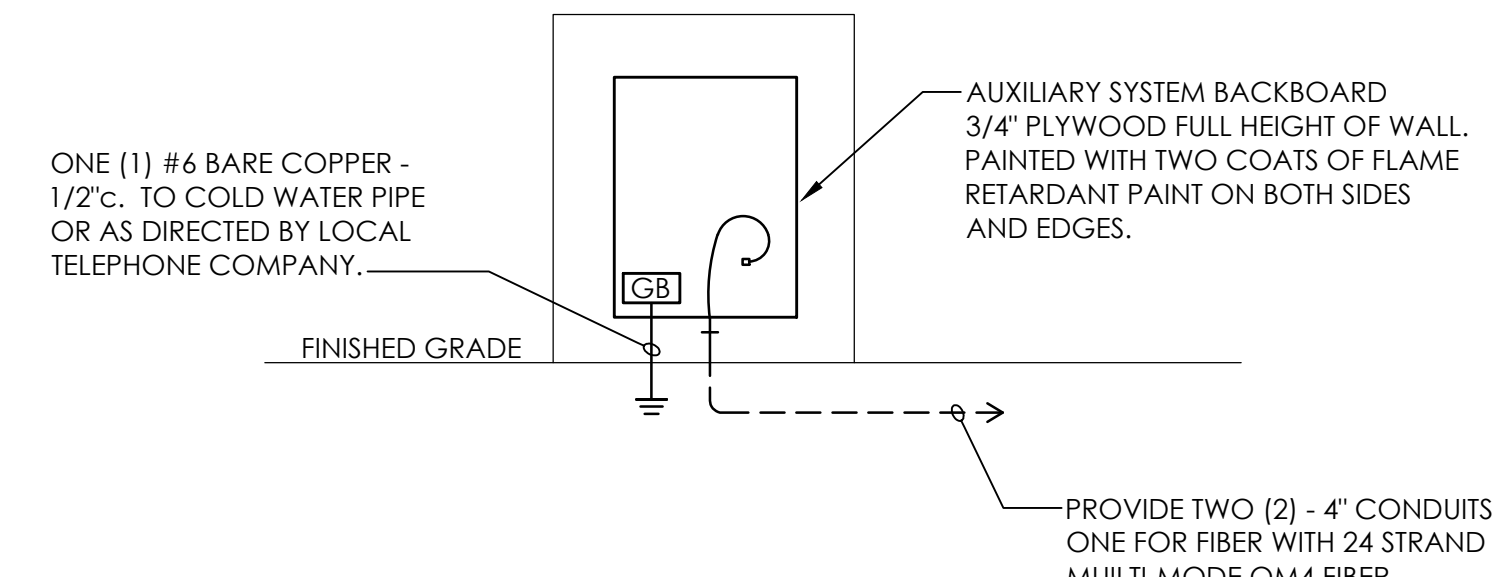


1 E0.6 TYPICAL TRANSFORMER PAD INSTALLATION DETAIL NOT TO SCALE



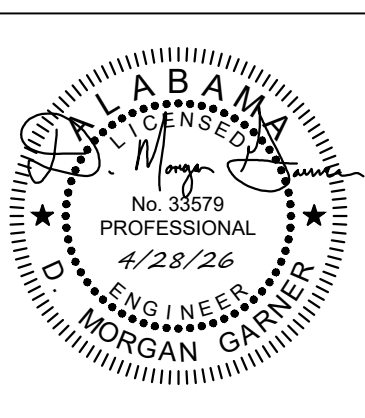
4 E0.6 GROUNDING SYSTEM RISER DIAGRAM NOT TO SCALE

- NOTES:
1. #4 COPPER GROUND IN 1" C.
 2. #6 COPPER GROUND IN 1" C.



3 E0.6 TYPICAL AUXILIARY SYSTEM RISER DIAGRAM NOT TO SCALE

- NOTES:
1. COORDINATE EXACT ROUTING OF SERVICE WITH OWNER I.T. PERSONNEL PRIOR TO ANY WORK.



| | |
|-------------|------------|
| PROJ. MGR.: | LR |
| DRAWN: | LR |
| DATE: | 04-28-2026 |
| REVISIONS: | |

JOB NO. 25-320

SHEET NO. E0.7

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
Project Title: City of Troy Maintenance Facility
Location: Troy, Alabama
Climate Zone: 3a
Project Type: New Construction

Construction Site:
Owner/Agent: Make Selection
Designer/Contractor:

Allowed Interior Lighting Power

| A | B | C | D |
|--|-------------------------------|---------------------------------|---------------|
| Area Category | Floor Area (ft ²) | Allowed Watts / ft ² | Allowed Watts |
| 1-Shop (Common Space Types Workshop) | 5000 | 1.58 | |
| 2-Storage (Common Space Types Storage) | 1250 | 0.63 | |
| 3-Office (Common Space Types Office - Enclosed) | 400 | 1.11 | |
| 4-Storage 108 (Common Space Types Storage) | 126 | 0.63 | |
| 5-Space (Common Space Types Electrical/Mechanical) | 100 | 0.42 | |
| 6-Space 1 (Common Space Types Lounge/Breakroom) | 400 | 0.73 | |
| Total Allowed Watts: | | | 9595 |

Proposed Interior Lighting Power

| A | B | C | D |
|--|--------------|---------------|---------|
| Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | # of Fixture | Fixture Watt. | (B X C) |
| 1-Shop (Common Space Types Workshop) | | | |
| HB HB LED: | 15 | 195 | 2925 |
| X X LED: | 4 | 3 | 12 |
| 2-Storage (Common Space Types Storage) | | | |
| HB HB LED: | 3 | 195 | 585 |
| 3-Office (Common Space Types Office - Enclosed) | | | |
| A A LED: | 4 | 26 | 104 |
| B B LED: | 3 | 28 | 84 |
| 4-Storage 108 (Common Space Types Storage) | | | |
| A A LED: | 4 | 26 | 104 |
| 5-Space (Common Space Types Electrical/Mechanical) | | | |
| S S LED: | 2 | 38 | 76 |
| 6-Space 1 (Common Space Types Lounge/Breakroom) | | | |
| A A LED: | 4 | 26 | 104 |
| B B LED: | 2 | 28 | 56 |
| Total Proposed Watts: | | | 4050 |

Report Title: City of Troy Maintenance Facility

Report Date: Apr 27, 2026, 08:07 PM

2 of 8

Proposed Interior Lighting Controls

| Fixture | Lighting Control |
|--|----------------------------------|
| 1-Shop (Common Space Types Workshop) | |
| HB HB LED: | Manual Control |
| X X LED: | |
| 2-Storage (Common Space Types Storage) | |
| HB HB LED: | Occupancy Sensor |
| 3-Office (Common Space Types Office - Enclosed) | |
| A A LED: | Occupancy Sensor |
| B B LED: | Occupancy Sensor, Manual Control |
| 4-Storage 108 (Common Space Types Storage) | |
| A A LED: | Occupancy Sensor |
| 5-Space (Common Space Types Electrical/Mechanical) | |
| S S LED: | Manual Control |
| 6-Space 1 (Common Space Types Lounge/Breakroom) | |
| A A LED: | Occupancy Sensor |
| B B LED: | Manual Control |

Interior Lighting PASSES: Design 58% 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 COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Electrical Project Engineer: M. Logan Ray 4/27/26

Name - Title Signature Date

Report Title: City of Troy Maintenance Facility

Report Date: Apr 27, 2026, 08:07 PM

3 of 8

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
Project Title: City of Troy Maintenance Facility
Location: Troy, Alabama
Climate Zone: 3a
Project Type: New Construction
Exterior Lighting Zone: Light industrial area with limited nighttime use (L2Z)

Construction Site:
Owner/Agent: Make Selection
Designer/Contractor:

Allowed Exterior Lighting Power

| A | B | C | D | E |
|--|---------------------|---------------------------------|------------------|-----------------------|
| Area/Surface Category | Quantity | Allowed Watts / ft ² | Tradable Wattage | Allowed Watts (B X C) |
| Ext Area (Main entry) | 30 ft of door width | 20.00 | No | 600.0 |
| Ext Area 1 (Other door (not main entry)) | 40 ft of door width | 20.00 | No | 800.0 |
| Total Tradable Watts (a): | | | | 1400 |
| Base Site Allowance (b): | | | | 600 |
| Total Allowed Watts: | | | | 2000 |

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A base site allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

| A | B | C | D | E |
|---|---------------|--------------|---------------|---------|
| Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | Lamps/Fixture | # of Fixture | Fixture Watt. | (C X D) |
| Ext Area (Main entry, 30 ft of door width): Tradable Wattage | | | | |
| WE WE LED: | 0 | 3 | 16 | 48 |
| Ext Area 1 (Other door (not main entry), 40 ft of door width): Tradable Wattage | | | | |
| WE WE LED: | 0 | 2 | 16 | 32 |
| VT VT LED: | 0 | 4 | 84 | 336 |
| Total Tradable Proposed Watts: | | | | 416 |

Proposed Exterior Lighting Controls

| Fixture | Lighting Control |
|---|------------------|
| Ext Area (Main entry, 30 ft of door width) | |
| WE WE LED: | Daylight Shutoff |
| Ext Area 1 (Other door (not main entry), 40 ft of door width) | |
| WE WE LED: | Daylight Shutoff |

Report Title: City of Troy Maintenance Facility

Report Date: Apr 27, 2026, 08:07 PM

4 of 8

| Fixture | Lighting Control |
|------------|------------------|
| VT VT LED: | Daylight Shutoff |

Exterior Lighting PASSES: Design 79% 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 COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Electrical Project Engineer: M. Logan Ray 4/27/26

Name - Title Signature Date

Report Title: City of Troy Maintenance Facility

Report Date: Apr 27, 2026, 08:07 PM

5 of 8



**LATHAN
McKEE**
ARCHITECTS

NEW GROUNDS FACILITY
TROY, ALABAMA

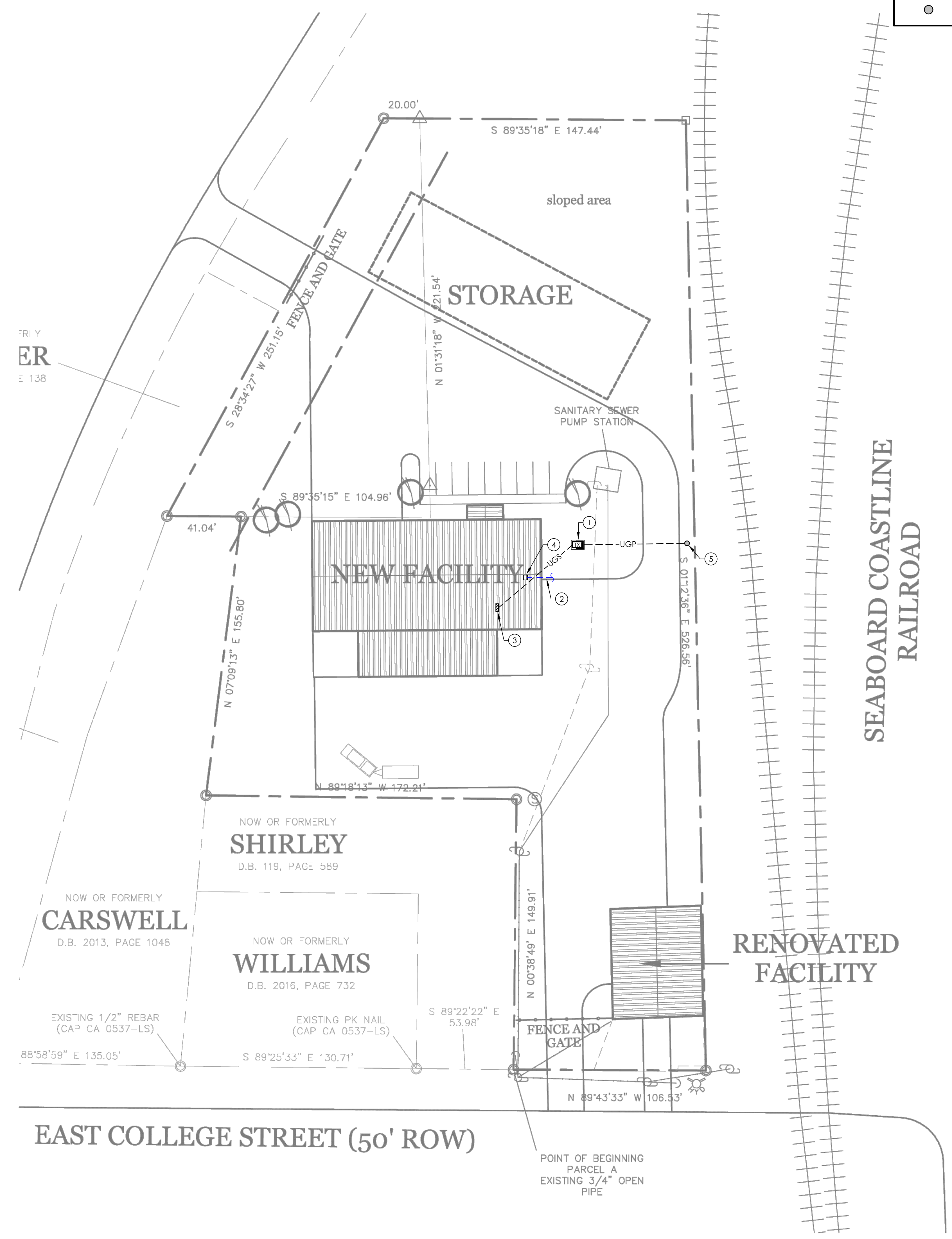
for
THE CITY OF TROY
TROY CITY HALL, 506 E. ACADEMY STREET, TROY, ALABAMA 36081

ELECTRICAL SITE LEGEND

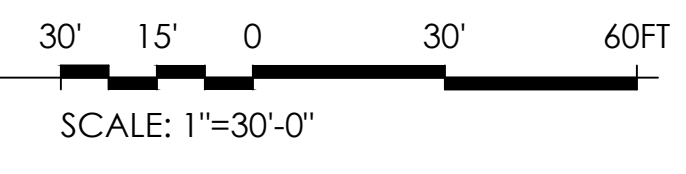
- UGS --- NEW UNDERGROUND SECONDARY, 120/208V, 3PH, 4W FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR
- UGP --- NEW UNDERGROUND PRIMARY, 120/208V, 3PH, 4W. CONDUIT SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR. CIRCUIT SHALL BE INSTALLED BY CITY OF TROY UTILITY.
- NEW UNDERGROUND FIBER BY OTHERS. PROVIDE TWO (2) - 2" CONDUITS.
- ☒ NEW 3PH PADMOUNTED TRANSFORMER FURNISHED AND INSTALLED BY CITY OF TROY UTILITIES.
- NEW RISER POLE.

KEYED SITE NOTES

1. NEW 120/208V 3PH TRANSFORMER. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING AND INSTALLING NEW PRIMARY CONDUITS, TRANSFORMER PAD, AND SECONDARY CIRCUIT AS SHOWN. COORDINATE WITH CITY OF TROY UTILITIES FOR ALL REQUIREMENTS REGARDING NEW TRANSFORMER PAD, CONDUIT SIZING, AND RISER POLE LOCATIONS PRIOR TO ROUGH-IN. TRANSFORMER AND PRIMARY CIRCUIT TO BE INSTALLED BY CITY OF TROY UTILITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH LOCAL INTERNET SERVICE PROVIDER FOR FIBER TO DATA RACK. VERIFY DETAILS WITH OWNER PRIOR TO CONTACTING ISP.
3. APPROXIMATE LOCATION OF MAIN PANEL 'MP'. REFER TO PLAN FOR LOCATION.
4. APPROXIMATE LOCATION OF WALL MOUNTED DATA RACK. REFER TO PLAN FOR LOCATION.
5. NEW RISER POLE. VERIFY EXACT LOCATION AND REQUIREMENTS WITH CITY OF TROY UTILITY PRIOR TO ROUGH-IN.



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



SHEET TITLE: SITE ELECTRICAL PLAN



PROJ. MGR.: LR
DRAWN: LR
DATE: 04-28-2026
REVISIONS:

JOB NO. 25-320

SHEET NO.

E1.0

GARNER
&
ASSOCIATES ENGINEERING
901 South Perry Street, Montgomery, AL 36104
o | 334.647.1596 e | admin@garner-engineering.com
Project No: 26-026

- N:\2026 Jobs\26-026 City of Troy Maint. Facility\Drawings\Elec\26-026-City of Troy Maintenance Facility.dwg
- Monday, April 27, 2026 6:11:27 PM



**LATHAN
& MCKEE**
ARCHITECTS

NEW GROUNDS FACILITY
TROY, ALABAMA
for
THE CITY OF TROY
TROY CITY HALL, 506 E. ACADEMY STREET, TROY, ALABAMA 36081

SHEET TITLE: LIGHTING PLAN



| | |
|-------------|------------|
| PROJ. MGR.: | LR |
| DRAWN: | LR |
| DATE: | 04-28-2026 |
| REVISIONS: | |

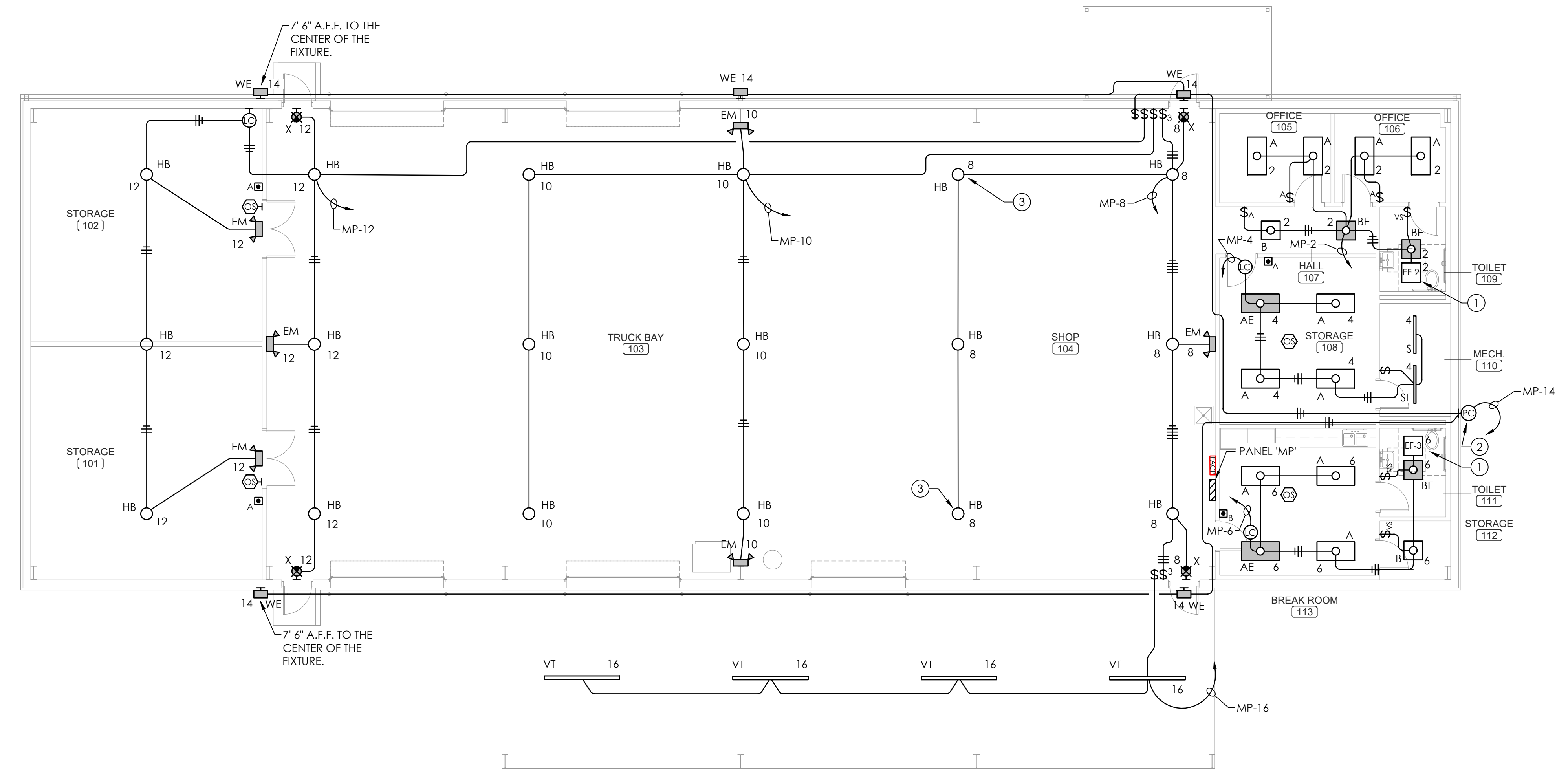
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| JOB NO. | 25-320 |
| SHEET NO. | E2.0 |

GENERAL NOTES

1. ALL CONDUITS ARE TO BE ROUTED IN A NEAT MANNER.
2. CONCEAL CONDUITS IN WALLS AND ABOVE CEILING WHERE POSSIBLE. EXPOSED CONDUITS ARE TO BE ROUTED HORIZONTAL AND PERPENDICULAR TO THE BUILDING STRUCTURE.
3. ALL ELECTRICAL WORK AND MATERIAL SHALL CONFORM TO THE LATEST EDITION OF THE N.E.C. AND THE REQUIREMENTS OF THE STATE AND LOCAL AUTHORITY HAVING JURISDICTION.
4. ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
5. ALL 120 VOLT, SINGLE-PHASE, 15- AND 20-AMP RECEPTACLES INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF SINKS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL AS REQUIRED BY NEC.

KEYED NOTES #

1. EXHAUST FAN SHALL BE CONTROLLED WITH THE LIGHTS IN THE CORRESPONDING ROOM.
2. WALL MOUNTED PHOTOCELL TO CONTROL EXTERIOR WALL PACKS. MOUNT AS HIGH AS POSSIBLE THE SIDE OF THE BUILDING. PHOTOCELL TO CONTROL THE EXTERIOR LIGHTS WHILE SWITCH IS ON. PROVIDE CONSTANT HOT FOR EMERGENCY FIXTURES BATTERY BACKUP.
3. HIGH BAY LIGHTING SHALL BE SET TO THE HEIGHT OF BOTTOM OF THE MAIN SUPPORT BEAM ON THE SHORT SIDE OF THE BUILDING. ALL OTHER HIGH BAY LIGHTING SHALL BE SET TO THE SAME HEIGHT ABOVE FINISHED FLOORING.



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

GARNER
&
ASSOCIATES ENGINEERING
901 South Perry Street, Montgomery, AL 36104
o | 334.647.1596 e | admin@garner-engineering.com
Project No: 26-026

- N:\2026 Jobs\26-026 City of Troy Maint. Facility Drawings\Elec\26-026 City of Troy Maintenance Facility.dwg
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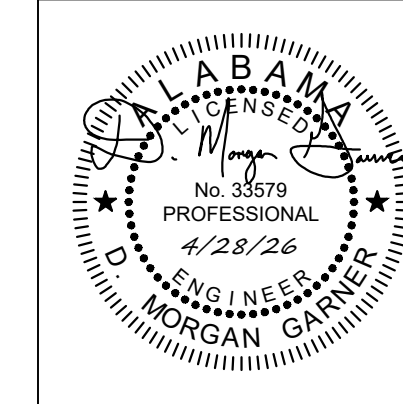


**LATHAN
McKEE**
ARCHITECTS

NEW GROUNDS FACILITY

TROY, ALABAMA
for
THE CITY OF TROY
TROY CITY HALL, 506 E. ACADEMY STREET, TROY, ALABAMA 36081

SHEET TITLE: POWER PLAN



PROJ. MGR.: LR
DRAWN: LR
DATE: 04-28-2026
REVISIONS

JOB NO. 25-320

SHEET NO.

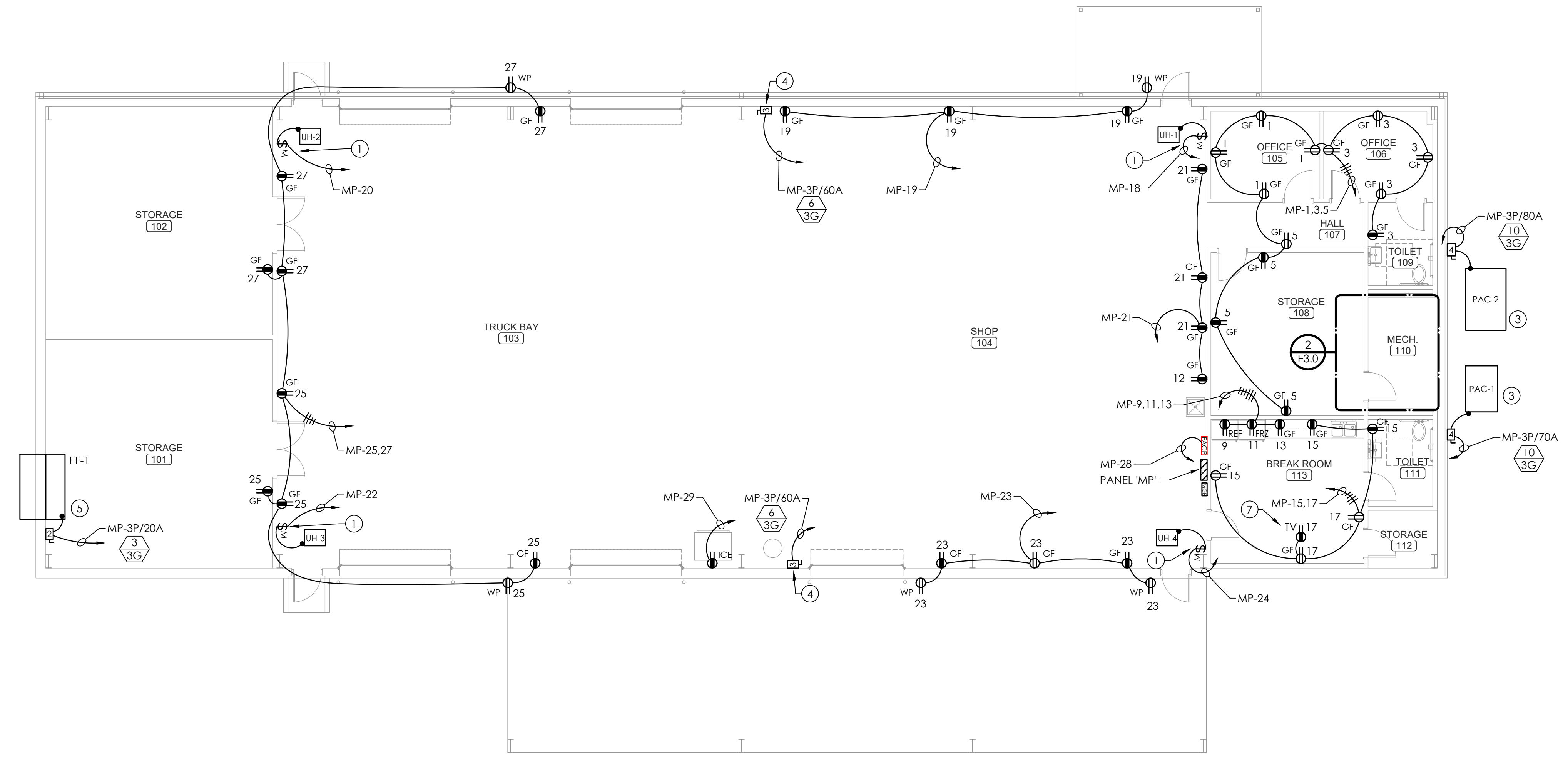
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GENERAL NOTES

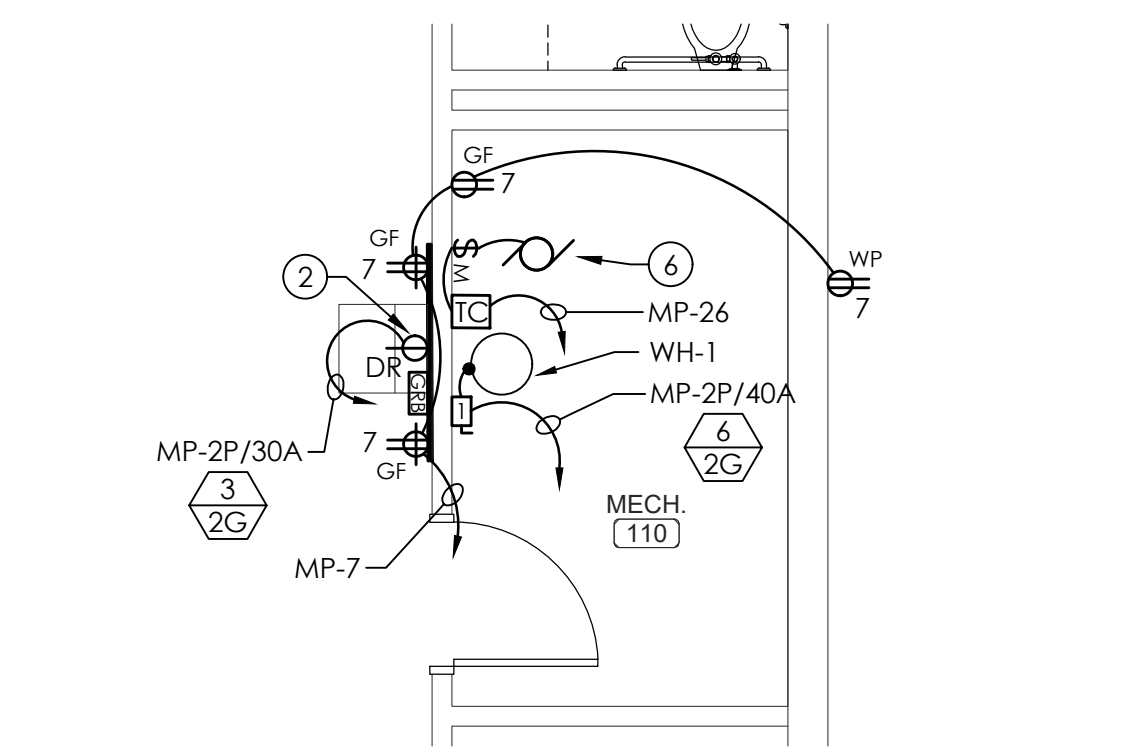
1. ALL CONDUITS ARE TO BE ROUTED IN A NEAT MANNER.
2. CONCEAL CONDUITS IN WALLS AND ABOVE CEILING WHERE POSSIBLE. EXPOSED CONDUITS ARE TO BE ROUTED HORIZONTAL AND PERPENDICULAR TO THE BUILDING STRUCTURE.
3. ALL ELECTRICAL WORK AND MATERIAL SHALL CONFORM TO THE LATEST EDITION OF THE N.E.C. AND THE REQUIREMENTS OF THE STATE AND LOCAL AUTHORITY HAVING JURISDICTION.
4. ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
5. ALL 120 VOLT, SINGLE-PHASE, 15- AND 20-AMP RECEPTACLES INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF SINKS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL AS REQUIRED BY NEC.

KEYED NOTES #

1. MANUAL MOTOR CONTROLLER, 20 AMP, 1 POLE, MOUNTED ON WALL ADJACENT TO MECHANICAL UNIT. MAKE CONNECTION TO UNIT AS REQUIRED.
2. DATA/AV RACK, WALL MOUNTED. MAINTAIN 3" CLEARANCE ON FRONT AND SIDES OF RACK. SEE AUXILIARY DRAWINGS.
3. MAKE CONNECTION TO UNIT AS REQUIRED.
4. OWNER PROVIDED EQUIPMENT. POWER CONNECTION TO EQUIPMENT OR RECEPTACLE PROVIDED BY OWNER. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE DISCONNECT AND CIRCUIT BACK TO PANEL 'MP'. VERIFY FUSE AND BREAKER SIZES WITH OWNER BEFORE PURCHASING.
5. MAKE CONNECTION TO EXHAUST FAN AS REQUIRED.
6. MAKE CONNECTION TO CIRCULATION PUMP AND TIME CLOCK AS REQUIRED.
7. VERIFY TV MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH IN.



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



ELECTRICAL DETAIL - MECH 110
SCALE: 1/4" = 1'-0"



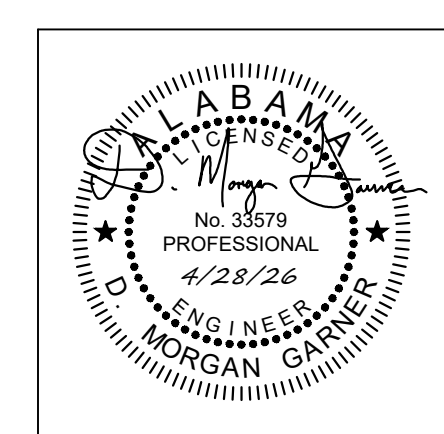
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**LATHAN
McKEE**
ARCHITECTS

NEW GROUNDS FACILITY
TROY, ALABAMA
for
THE CITY OF TROY
TROY CITY HALL, 306 E. ACADEMY STREET, TROY, ALABAMA 36081

SHEET TITLE: AUXILIARY PLAN



| | |
|-------------|------------|
| PROJ. MGR.: | LR |
| DRAWN: | LR |
| DATE: | 04-28-2026 |
| REVISIONS | |

| | |
|-----------|--------|
| JOB NO. | 25-320 |
| SHEET NO. | E4.0 |

GENERAL NOTES

- ALL CONDUITS ARE TO BE ROUTED IN A NEAT MANNER.
- CONCEAL CONDUITS IN WALLS AND ABOVE CEILING WHERE POSSIBLE. EXPOSED CONDUITS ARE TO BE ROUTED HORIZONTAL AND PERPENDICULAR TO THE BUILDING STRUCTURE.
- ALL ELECTRICAL WORK AND MATERIAL SHALL CONFORM TO THE LATEST EDITION OF THE N.E.C. AND THE REQUIREMENTS OF THE STATE AND LOCAL AUTHORITY HAVING JURISDICTION.
- ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
- ALL 120 VOLT, SINGLE-PHASE, 15- AND 20-AMP RECEPTACLES INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF SINKS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL AS REQUIRED BY NEC.

KEYED SITE NOTES #

- AUXILIARY SYSTEMS BACKBOARD, 8' TALL FIRE-RATED 3/4" PLYWOOD, LENGTH AS SHOWN, PAINTED ON ALL SIDE AND EDGES WITH AT LEAST TWO COATS OF GRAY PAINT.
- DATA RACK, WALL MOUNTED, MAINTAIN 3' CLEARANCE ON FRONT AND SIDES OF DATA RACK.
- CARBON MONOXIDE SENSOR PROVIDE POWER AS REQUIRED.
- VERIFY TV MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH IN.



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

GARNER
&
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901 South Perry Street, Montgomery, AL 36104
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Project No: 26-026

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