

BEAR CREEK FIRE STATION

ON SLOW COUNTY

BID NO. 102-25C
138 OLD SAND RIDGE RD, HUBERT, NC 28539



DAVIS KANE
ARCHITECTS, P.A.

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PROJECT INFORMATION

**ON SLOW COUNTY BEAR
CREEK FIRE STATION**
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138 OLD SAND RIDGE RD, HUBERT, NC 28539

VICINITY MAP

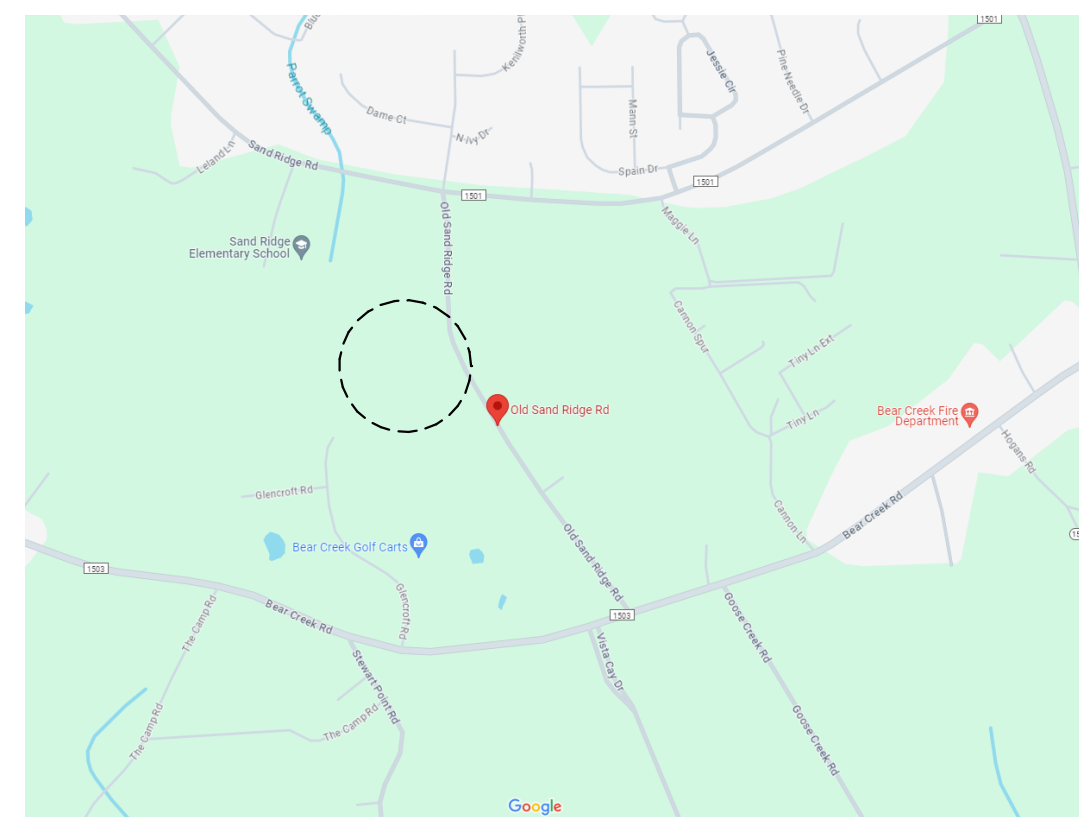


IMAGE REPRINTED FROM GOOGLE MAPS
NTS

DESIGN TEAM

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ALTERNATES

ALTERNATE A-1: FOUR-FOLD DOORS IN LIEU OF SECTIONAL DOORS.
1. BASE BID: DOORS 127.8, 127.9, 127.10, 127.11, 127.12 TO BE TYPE G AS INDICATED ON SHEET A700 AND AS SPECIFIED IN SECTION 083613 "SECTIONAL DOORS".
2. ALTERNATE: DOORS 127.8, 127.9, 127.10, 127.11, 127.12 TO BE TYPE F AS INDICATED ON SHEET A700 AND AS SPECIFIED IN SECTION 083713 "EXTERIOR FOUR-FOLD DOORS".

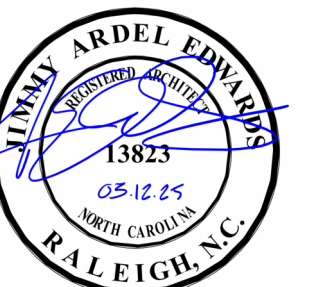
ALTERNATE C-1: CONCRETE PAVEMENT DRIVE IN LIEU OF HEAVY DUTY ASPHALT PAVEMENT DRIVE.
1. BASE BID: LIGHT DUTY ASPHALT PAVEMENT WITH EXTENTS AS SHOWN ON SHEET C100 AND AS SPECIFIED IN SECTION 321216 "ASPHALT PAVING".
2. ALTERNATE: CONCRETE PAVEMENT WITH EXTENTS AS SHOWN ON SHEET C100 AND AS SPECIFIED IN SECTION 321313 "CONCRETE PAVING".

ALTERNATE C-2: CONCRETE PAVEMENT IN LIEU OF LIGHT DUTY ASPHALT PAVEMENT AT PARKING.
1. BASE BID: LIGHT DUTY ASPHALT PAVEMENT WITH EXTENTS AS SHOWN ON SHEET C100 AND AS SPECIFIED IN SECTION 321216 "ASPHALT PAVING".
2. ALTERNATE: CONCRETE PAVEMENT WITH EXTENTS AS SHOWN ON SHEET C100 AND AS SPECIFIED IN SECTION 321313 "CONCRETE PAVING".

ALTERNATE M-1: ADD TEN AIR SCRUBBERS TO APPARATUS BAY.
1. BASE BID: NO AIR SCRUBBERS.
2. ALTERNATIVE: TEN AIR SCRUBBERS AS SHOWN ON SHEET M100 AND M701.

BID DOCUMENTS

SEALS



DKA JOB NUMBER

2324

REVISIONS

NO.	DESCRIPTION

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BID DOCUMENTS

03/12/2025

SHEET TITLE

COVER SHEET

G001



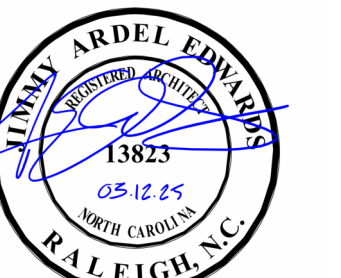
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BID DOCUMENTS
03/12/2025

SHEET TITLE
CODE SUMMARY

G003

APPENDIX B
2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)

ENERGY SUMMARY

ENERGY REQUIREMENTS:
THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: -

EXEMPT BUILDING (PROVIDE CODE OR STATUTORY REFERENCE): -

CLIMATE ZONE: 3A 4A 5A

METHOD OF COMPLIANCE: Energy Code: Prescriptive Performance
ASHRAE 90.1: Prescriptive Performance

(IF "OTHER", SPECIFY SOURCE HERE) -

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY) Standing Seam Metal Roof above Pre-engineered Metal Building System with R-10+R-19 FC Insulation

ROOF / CEILING ASSEMBLY (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY: _____

U-VALUE OF TOTAL ASSEMBLY: 0.041

R-VALUE OF INSULATION: R-10+R-19 FC

SKYLIGHTS IN EACH ASSEMBLY: N/A

U-VALUE OF SKYLIGHT: N/A

TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY: N/A

EXTERIOR WALLS (EACH ASSEMBLY) Brick Veneer, Air Space, Rigid Insulation, Air Barrier on 1/2" Sheathing on PEMB framing with Batt Insulation

DESCRIPTION OF ASSEMBLY: _____

U-VALUE OF TOTAL ASSEMBLY: -

R-VALUE OF INSULATION: R-13+R-7.5CI

DESCRIPTION OF ASSEMBLY: Brick veneer, air space, air barrier, rigid insulation on CMU @ Apparatus Bay

U-VALUE OF TOTAL ASSEMBLY: -

R-VALUE OF INSULATION: R-7.6 CI

DESCRIPTION OF ASSEMBLY: Metal panel, Air Space, Rigid Insulation, Air Barrier on 1/2" Sheathing on PEMB framing with Batt Insulation

U-VALUE OF TOTAL ASSEMBLY: -

R-VALUE OF INSULATION: R-13+R-7.5CI

OPENINGS (WINDOWS OR DOORS WITH GLAZING)

U-VALUE OF ASSEMBLY: 0.45 MAX

SOLAR HEAT GAIN COEFFICIENT: 0.25 MAX

PROJECTION FACTOR: Less than 0.25

DOOR R-VALUES: 0.77 MAX (Entrance); 0.45 MAX (Not Entrance)

WALLS BELOW GRADE (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY: N/A

U-VALUE OF TOTAL ASSEMBLY: -

R-VALUE OF INSULATION: -

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY: N/A

U-VALUE OF TOTAL ASSEMBLY: -

R-VALUE OF INSULATION: -

FLOORS SLAB ON GRADE

DESCRIPTION OF ASSEMBLY: 4" or 8" Concrete Slab on Vapor Retarder on Grade

U-VALUE OF TOTAL ASSEMBLY: 0.1

R-VALUE OF INSULATION: R-10"

HORIZONTAL / VERTICAL REQUIREMENT: To Top of Footing

SLAB HEATED: NO

*NOT REQUIRED BY NC ENERGY CONSERVATION CODE

STRUCTURAL DESIGN SUMMARY

DESIGN LOADS

IMPORTANCE FACTORS

SNOW (Is): 1.2

SEISMIC (Ie): 1.5

LIVE LOADS

ROOF (PSF): 20 PSF

EQUIPMENT PLATFORM (PSF): 150 PSF

FLOOR (PSF): 100 PSF

GROUND SNOW LOAD (PSF): 10 PSF

WIND LOAD

BASIC WIND SPEED (MPH) (ASCE-7): 150 MPH

EXPOSURE CATEGORY: B

SEISMIC DESIGN CATEGORY

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS

RISK CATEGORY (TABLE 1604.5): I II III IV

SPECTRAL RESPONSE ACCELERATION:

Ss: 0.141 %g

S1: 0.068 %g

SITE CLASSIFICATION (ASCE 7): A B C D E F

DATA SOURCE: Field Test Presumptive Historical Data

BASIC STRUCTURAL SYSTEM: Bearing Wall Dual w/ Special Moment Frame

Building Frame Dual w/ Intermediate R/C or Special Steel

Moment Frame Inverted Pendulum

ANALYSIS PROCEDURE: Simplified Equivalent Lateral Force Dynamic

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES (PSF):

Field Test (psf): -

Presumptive Bearing Capacity (psf): 1,500

Pile Size, Type and Capacity: -

MECHANICAL DESIGN SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE 3A

WINTER DRY BULB: 20°F

SUMMER DRY BULB: 92°F/76°F WB

INTERIOR DESIGN CONDITIONS

WINTER DRY BULB: 70°F

SUMMER DRY BULB: 74°F

RELATIVE HUMIDITY: 55%

BUILDING HEATING LOAD: 174.3 MBH - INCLUDING APPARATUS BAY

BUILDING COOLING LOAD: 13.8 TONS

MECHANICAL SPACING CONDITIONING SYSTEM

UNITARY

DESCRIPTION OF UNIT: _____

HEATING EFFICIENCY: _____

COOLING EFFICIENCY: _____

SIZE CATEGORY OF UNIT: _____

BOILER

SIZE CATEGORY, IF OVERSIZED, STATE REASON: N/A

CHILLER

SIZE CATEGORY, IF OVERSIZED, STATE REASON: N/A

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON SHEET M600

ELECTRICAL DESIGN SUMMARY

ELECTRICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE: Energy Code: Prescriptive Performance

ASHRAE 90.1: Prescriptive Performance

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE _____

NUMBER OF LAMPS IN THE FIXTURE _____

BALLAST TYPE USED IN THE FIXTURE _____

NUMBER OF BALLASTS IN THE FIXTURE _____

TOTAL WATTAGE PER FIXTURE _____

TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED - 7702 vs. 8591

TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED - 796 vs. 1517

ADDITIONAL EFFICIENCY PACKAGE OPTIONS (WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)

C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE

C406.3 REDUCED LIGHTING POWER DENSITY

C406.4 ENHANCED DIGITAL LIGHTING CONTROLS

C406.5 ON-SITE RENEWABLE ENERGY

C406.6 DEDICATED OUTDOOR AIR SYSTEM

C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

SEE SCHEDULES ON SHEET M600

SEE SCHEDULE ON SHEET E601

RATED ASSEMBLIES LEGEND:

NOTES: RATINGS ARE NOT SHOWN THROUGH DOORS FOR CLARITY. SEE A002 FOR PARTITION TYPES. SEE LIFE SAFETY PLANS ON G004 FOR FULL EXTENT OF RATINGS, INCLUDING HORIZONTAL RATINGS. RATINGS ARE CONTINUOUS AROUND OPENINGS AND OPENINGS ARE TO BE PROTECTED IN ACCORDANCE WITH THE NC STATE BUILDING CODE. PROTECT ALL PENETRATIONS.

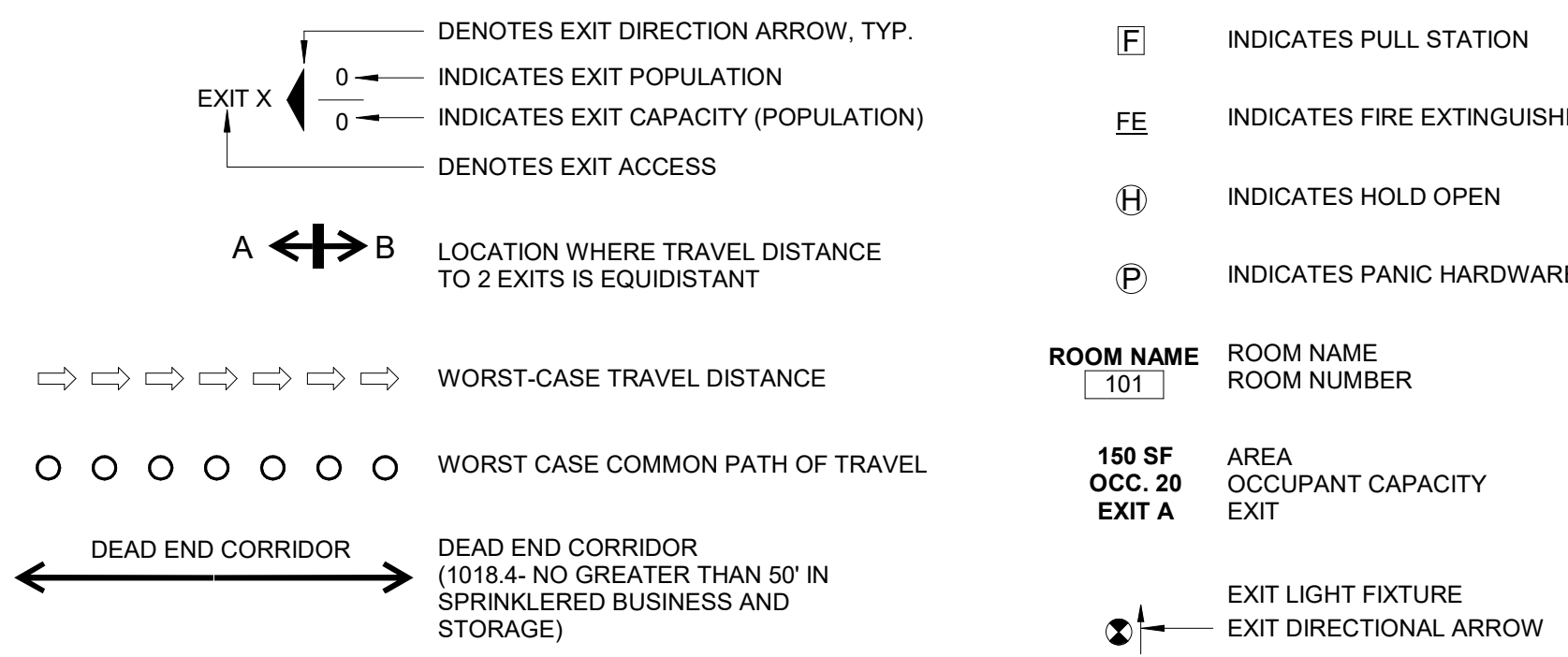
ALL RATED ASSEMBLIES SHALL BE STENCILED WITH RATED WALL WARNING MESSAGE IN RED TO READ AS FOLLOWS: " . . . HOUR RATED FIRE BARRIER. SEAL ALL PENETRATIONS* WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS NOTED ON PLANS. MESSAGE TO BE 4" MIN HIGH LETTERS, PLACED 12" ABOVE CEILING, SPACED AT 12" OC ON BOTH SIDES OF WALLS AND ON UNDERSIDE OF HORIZONTAL RATED ASSEMBLIES.

SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.

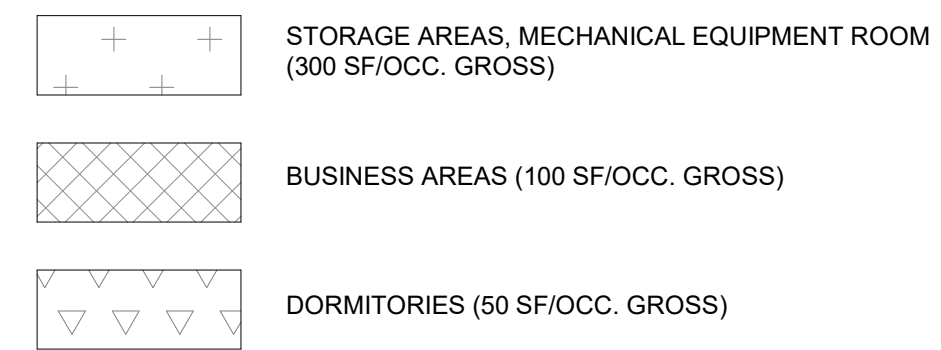
2-HR FIRE BARRIER

1/2-HR FIRE PARTITION

LIFE SAFETY SYMBOL LEGEND



LIFE SAFETY OCCUPANCY KEY



LIFE SAFETY GENERAL NOTES:

- REFER TO SHEET G001 AND G002 FOR CODE SUMMARY.
- REFER TO DOOR SCHEDULE FOR REQUIRED DOOR RATINGS.
- REFER TO INTERIOR PARTITION TYPES AND FLOOR PLAN FOR ADDITIONAL PARTITION REQUIREMENTS INCLUDE WALL HEIGHT, UL DESIGN AND FIRE RATING.
- REFER TO SITE PLAN FOR BUILDING ADJACENCIES AND PROPERTY LINES.
- REFER TO FLOOR PLANS FOR FIRE EXTINGUISHER LOCATIONS.



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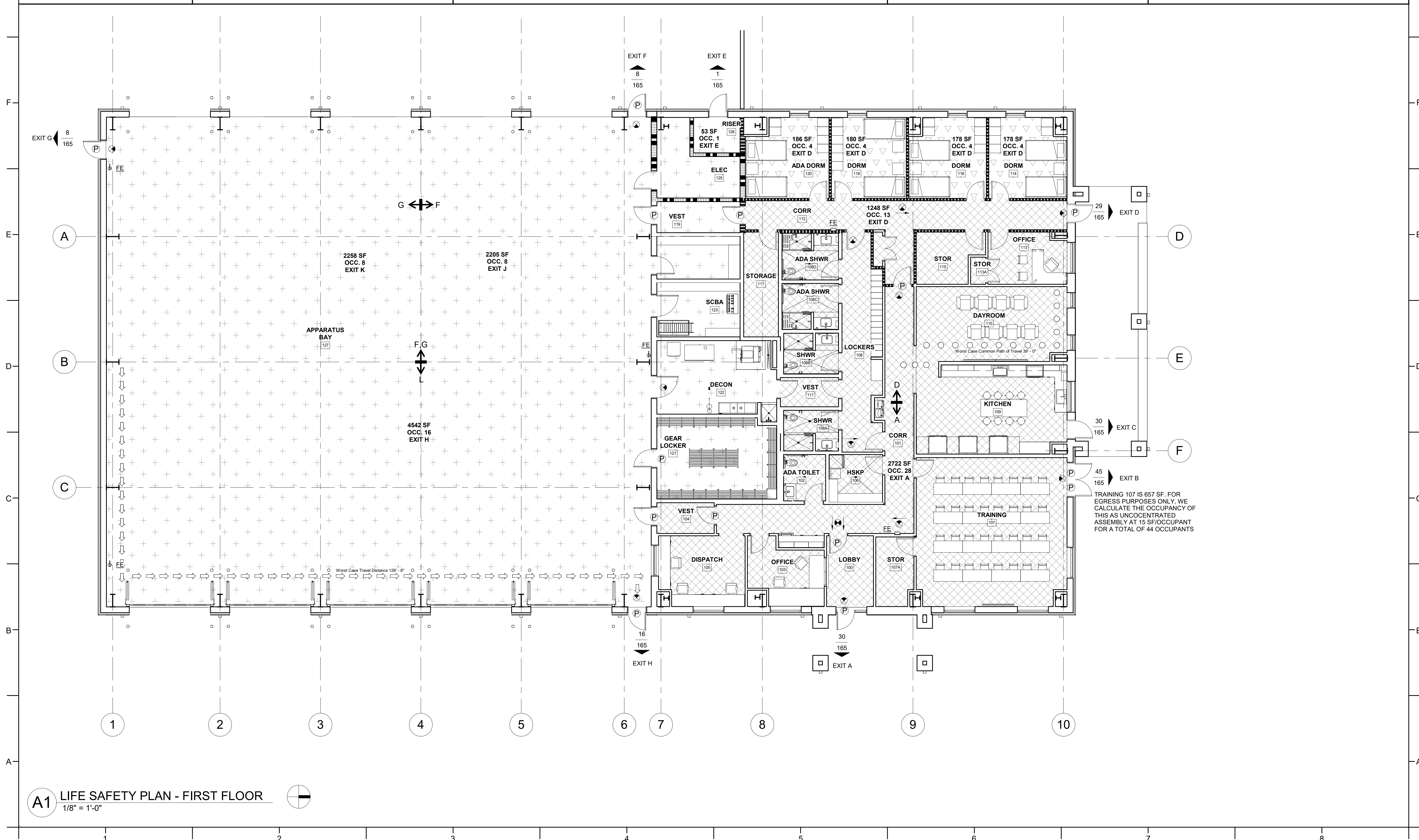
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SHEET TITLE

LIFE SAFETY PLAN

G004



TRAINING 107 IS 657 SF. FOR EGRESS PURPOSES ONLY, WE CALCULATE THE OCCUPANCY OF THIS AS UNCENTRATED ASSEMBLY AT 15 SF/OCCUPANT FOR A TOTAL OF 44 OCCUPANTS

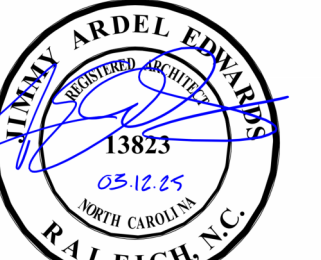
A1 LIFE SAFETY PLAN - FIRST FLOOR
 1/8" = 1'-0"

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03/12/2025

SHEET TITLE

UL DETAILS

G005

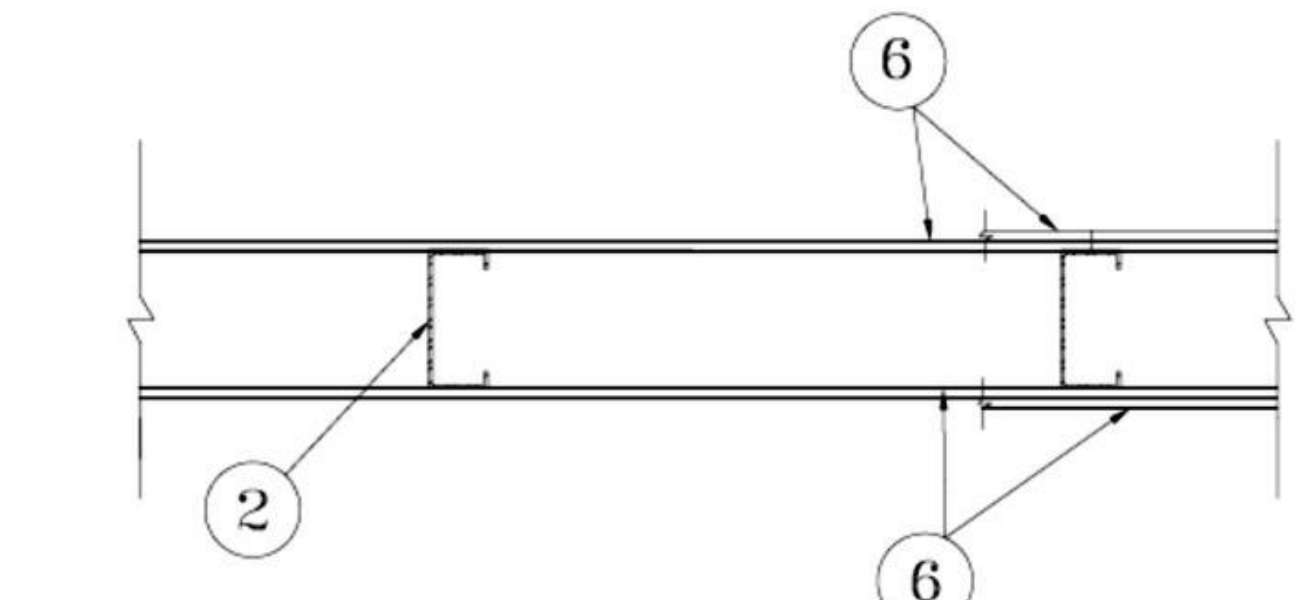
Design No. U407
June 19, 2023

Nonbearing Wall Ratings — 1/2 or 1 HR. (See Items 1, 1A, 2, 2A and 6)
Bearing Wall Rating — 1/2 HR. (See Items 3 and 6)
Finish Rating — (See Item 3)

Loaded Per 2005 NDS Supplement, ASD Method, Wall Braced by Sheathing, 100% of Design Load Applied to Wall.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Floor and Ceiling Runners — (Not shown- For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
1A. Framing Members*— Floor and Ceiling Runners — (Not shown, As an alternate to Item 1 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2A, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, min depth to accommodate stud size , attached to floor and ceiling with fasteners 24 in. OC. max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK
DMFCWBS L L C — ProTRAK
MBA METAL FRAMING — ProTRAK
RAM SALES L L C — Ram ProTRAK
STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1B. Framing Members* - Floor and Ceiling Runner — (Not shown, As an alternate to Item 1 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2B, proprietary channel shaped runners, min depth to accommodate stud size , attached to floor and ceiling with fasteners 24 in. OC. max.

CEMCO, LLC — Viper25™ Track
MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track
IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1C. Framing Members*— Floor and Ceiling Runners — (Not shown, As an alternate to Item 1 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2C, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, min depth to accommodate stud size , attached to floor and ceiling with fasteners 24 in. OC. max.

TELLING INDUSTRIES L L C — TRUE-TRACK™

1D. Framing Members*— Floor and Ceiling Runners — (Not shown, As an alternate to Item 1 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2E, channel shaped, fabricated from min. 0.018 in. (min bare metal thickness) galvanized steel, min depth to accommodate stud size , attached to floor and ceiling with fasteners 24 in. OC. max.

RESCUE METAL FRAMING, L L C — AlphaTRAK

2. Steel Studs — (For the 1/2 or 1 Hour Nonbearing Wall Ratings) Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min. 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2A. Framing Members*— Steel Studs — (Not shown, As an alternate to Item 2- For the 1/2 or 1 Hour Nonbearing Wall Ratings) — channel shaped studs, min. 3-5/8 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD
DMFCWBS L L C — ProSTUD
MBA METAL FRAMING — ProSTUD
RAM SALES L L C — Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2B. Framing Members* - Steel Studs — (Not shown, As an alternate to Item 2- For the 1/2 or 1 Hour Nonbearing Wall Ratings) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height

CEMCO, LLC — Viper25™
MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper25™
IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. Framing Members*— Steel Studs — (Not shown, As an alternate to Item 2- For the 1/2 or 1 Hour Nonbearing Wall Ratings) — channel shaped studs, min. 3-5/8 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

TELLING INDUSTRIES L L C — TRUE-STUD™

2D. Framing Members* - Steel Studs — (As an alternate to Item 2- For the 1/2 or 1 Hour Nonbearing Wall Ratings) - For use with Item 1 (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

MARINOWARE, DIV OF WARE INDUSTRIES INC — StudRite™

2E. Framing Members*— Steel Studs — (Not shown, As an alternate to Item 2- For the 1/2 or 1 Hour Nonbearing Wall Ratings) — channel shaped studs, min. 3-5/8 in. deep, fabricated from min. 0.018 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

RESCUE METAL FRAMING, L L C — AlphaSTUD

3. Wood Studs — (Not shown, As an alternate to Items 1 and 2- For the 1/2 Bearing Wall Rating) - Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped. When wood studs are used, Finish Rating is 16 Min.

4. Batts and Blankets* — (Optional, not shown) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5. Furring Channels — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws for steel studs and 1 in. long Type S screws for wood studs.

6. Gypsum Board* — 5/8 in. thick paper surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers need not be staggered.

1/2 Hour Bearing Rating On Wood Studs - Single layer secured with 1-5/8 in. long Type S steel screws spaced 12 in. OC at the perimeter and in the field.

1/2 Hour Nonbearing Rating On Steel Studs - Single layer secured with 1 in. long Type S steel screws spaced 8 in. OC at the perimeter and 8 in. OC in the field.

1 Hour Nonbearing Rating On Steel Studs - Base layer boards secured with 1 in. long Type S steel screws spaced 16 in. OC at the perimeter and 16 in. OC in the field. Face layer boards secured with 1-5/8 in. long Type S steel screws spaced 16 in. OC at the perimeter and 16 in. OC in the field. When joints are aligned, screws are offset 8 in. between layers.

CGC INC — 5/8 in. thick Type FC30
UNITED STATES GYPSUM CO — 5/8 in. thick Type FC30
USG MEXICO S A DE C V — 5/8 in. thick Type FC30

7. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

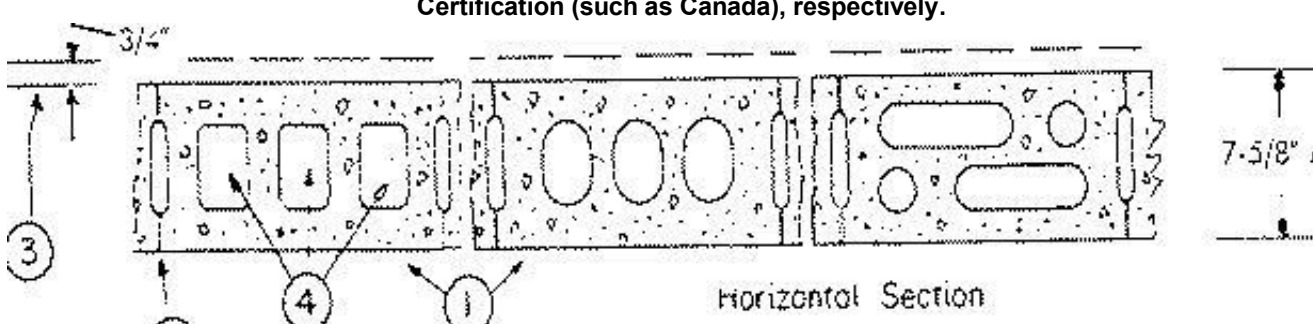
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Design No. U905
April 14, 2023

Bearing Wall Rating — 2 HR
Nonbearing Wall Rating — 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Concrete Blocks* — Various designs. Classification D-2 (2 hr). See **Concrete Blocks** category for list of eligible manufacturers.

2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. Loose Masonry Fill — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. Foamed Plastic* — (Optional-Not Shown) — 1-1/2 in. thick max. 4 ft wide sheathing attached to concrete blocks (Item 1). **ATLAS ROOFING CORP** — EnergyShield Pro Wall Insulation, EnergyShield Pro 2 Wall Insulation, EnergyShield CGF Pro, EnergyShield Ply Pro, EnergyShield CGF, EnergyShield PanelCast, EnergyShield and EnergyShield XR

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax iH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler StyWall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX ci FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath"

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

5A. Building Units* — As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

ATLAS ROOFING CORP — EnergyShield® Ply

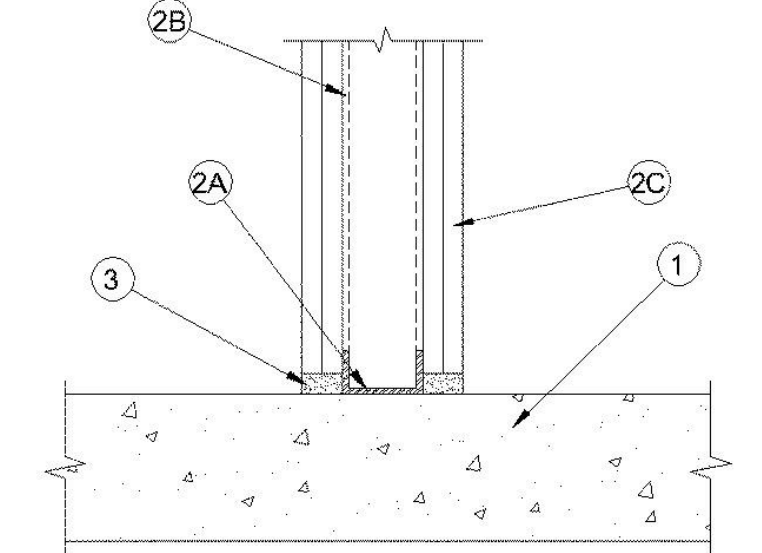
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. BW-S-001
January 26, 2015

ANSI/ UL2079	CAN/ ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width - 3/4 in.	FT Ratings — 1 and 2 Hr (See Item 2)
L Rating at Ambient — Less than 1 CFM/Lin Ft	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating at 400° F — Less than 1 CFM/Lin Ft	FTH Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width - 3/4 In.	
L Rating at Ambient — Less than 1 CFM/Lin Ft	
L Rating at 400° F — Less than 1 CFM/Lin Ft	



1. Floor Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units**. See **Precast Concrete Units** category in the Fire Resistance Directory for names of manufactures.

2. Wall Assembly — The 1 or 2 h fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system constructed as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:

A. Steel Floor Runner — Floor runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Floor runners to be provided with min 1-1/4 in. (32 mm) flanges. Runners secured with steel fasteners spaced 12 in. (305 mm) OC.

B. Studs — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in, resting on and fastened to floor runner with sheet metal screws. Stud spacing not to exceed 24 in. (610 mm) OC.

C. Gypsum Board* — Gypsum board installed to a min total thickness of 5/8 or 1-1/4 in. (16 or 32 mm) on each side of wall for a 1 or 2 h rated wall, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory, except that a max 3/4 in. (19 mm) gap shall be maintained between the bottom of gypsum board and top of concrete floor. **The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.**

3. Fill, Void or Cavity Material* Sealant — **Max separation between top of floor and bottom of gypsum board is 3/4 in. (19 mm).** For 1 and 2 hr rated wall assemblies, min 5/8 in. or 1-1/4 in. (16 or 1-1/4 mm) thickness of fill material, respectively, installed on each side of the wall between the bottom of the gypsum board and the top of the concrete floor, flush with each surface of the wall.

HLITI CONSTRUCTION CHEMICALS, DIV OF HLITI INC — CP601S Elastomeric Firestop Sealant, CP606 Flexible Firestop Sealant, CFS-S SIL GG, FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

RATED ASSEMBLIES GENERAL NOTES:

- UL CERTIFIED RATED ASSEMBLIES ARE REPRINTED FROM THE ONLINE CERTIFICATIONS DIRECTORY WITH PERMISSION FROM UNDERWRITERS LABORATORIES, INC.
- FIRE PROTECTION MATERIALS DENOTED IN THE FIRE PROTECTION DETAILS PROVIDED HEREIN SHALL NOT BE CONSTRUED AS PROPRIETARY. EQUIVALENT FIRE PROTECTION SYSTEMS MAY BE UTILIZED IF SUBMITTED BY THE CONTRACTOR FOLLOWING REQUIREMENTS SET FORTH IN THE GENERAL CONDITIONS.
- ANY SUBSTITUTIONS OF MATERIALS USED IN RATED ASSEMBLIES ARE SUBJECT TO APPROVAL BY AUTHORITIES HAVING JURISDICTION.

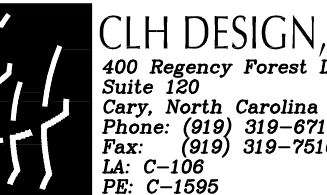
BEAR CREEK FIRE STATION

138 OLD SAND RIDGE RD
HUBERT, NC 28539
ONSLOW COUNTY



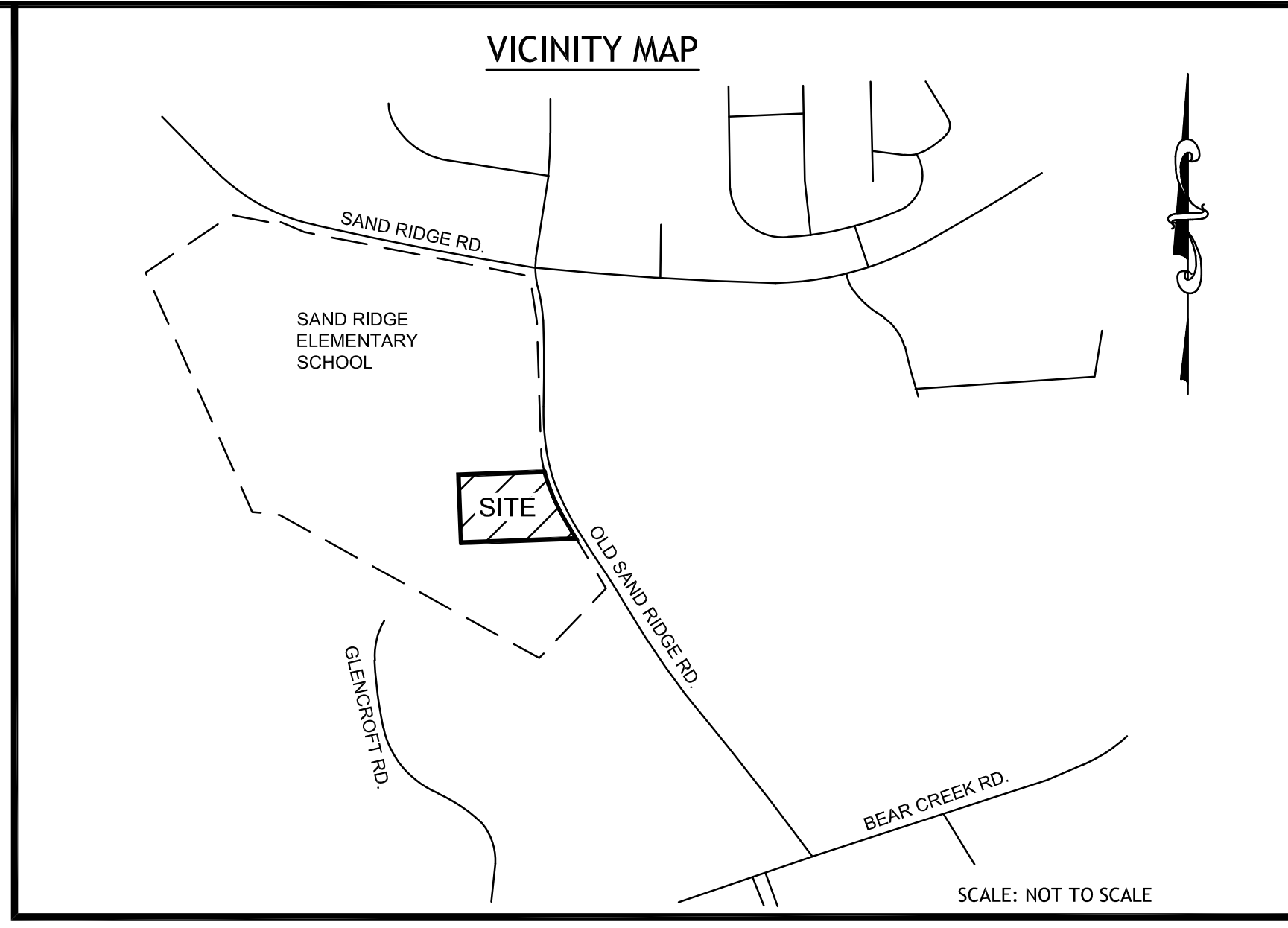
DAVIS KANE
ARCHITECTS, PA

503 OBERLIN ROAD | SUITE 300
RALEIGH, NC 27605
919.833.3737
www.davisokane.com



CLH DESIGN, P.A.
400 Regency Forest Drive
Suite 130
Cary, North Carolina 27518
Phone: (919) 319-8718
Fax: (919) 319-7918
LA: C-106
PE: C-1695

PROJECT INFORMATION



SITE DATA

PROJECT: ONSLOW COUNTY - BEAR CREEK FIRE STATION
HUBERT, NC

OWNER: ONSLOW COUNTY

OWNER CONTACT: BENJAMIN WARREN - ASSISTANT COUNTY MANAGER
234 NW CORRIDOR BOULEVARD
JACKSONVILLE, NC 28540
PHONE: 910-347-4717
BENJAMIN_WARREN@ONSLOWCOUNTYNC.GOV

DESIGNER CONTACT: CLH DESIGN, PA
YHOSHUA AAL-ANUBIA, PLA - SENIOR PROJECT MANAGER
400 REGENCY FOREST DRIVE, SUITE 120
CARY, NC 27518
PHONE: 919-319-8716
FAX: 919-319-7516
Y.AALANUBIA@CLHDESIGNPA.COM

PROJECT ADDRESS: 138 OLD SAND RIDGE RD.
HUBERT, NC 28539

PARCEL ID #: 534301165704

PARCEL ID #: 175469

ZONING: RA

OVERLAY: N/A

EXISTING LAND USE: VACANT

PROPOSED LAND USE: FIRE STATION

LANDSCAPE BUFFERS: ADJACENT TO LAND USE "O-1" (NORTH, WEST, & SOUTH SIDE)
TYPE A BUFFER YARD TO BE PLANTED PER APPENDIX A

SETBACKS: FRONT = 30 FT
SIDE YARD = 8 FT
REAR YARD = 15 FT

SITE ACREAGE: 3 ACRES

TAX MAP NO.: 1309-64.1

BUILDING SF: 15,289 SF

ONSLOW COUNTY PARKING REQUIREMENTS:

PARKING CODE: PUBLIC & CIVIC USE - 30 SPACE MIN. - 1.5/EMPLOYEE
REQUIRED ACCESSIBLE PARKING: 2

PARKING REQUIRED: 30 SPACES

PARKING PROVIDED: 34 STAFF/VISITOR SPACES (2 ADA)

BICYCLE PARKING: N/A

STORMWATER DEVICES: (2) SCM WETLAND

FIRE DISTRICT/ISO: NORTHEAST ONSLOW ISO 4

STORMWATER PERMIT #: TBD

EXISTING WETLANDS: NO WETLANDS ARE PRESENT ON THIS SITE

SEWER DISTRIBUTION: PUMP STATION AND FORCE MAIN

HOURS OF OPERATION: 24 HOURS

EMPLOYEES: 15 (3 SHIFTS, 5 PER SHIFT)

INDEX OF DRAWINGS

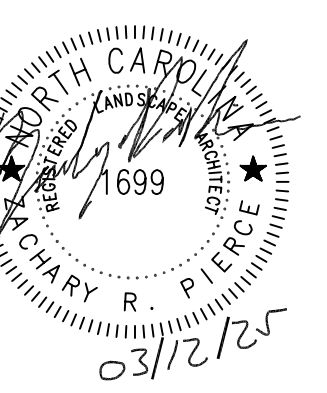
CIVIL:

C000	COVER
C100	STAKING PLAN
C200	EXISTING CONDITIONS & DEMO PLAN
C300	GRADING PLAN
C400	INITIAL EROSION CONTROL PLAN
C401	FINAL EROSION CONTROL PLAN
C500	OVERALL UTILITY PLAN
C501	UTILITY PLAN - AREA 1
C502	UTILITY PLAN - AREA 2
C503	UTILITY PLAN - AREA 3
C504	FORCEMAIN & WATERLINE PLAN AND PROFILE
C505	FORCEMAIN & WATERLINE PLAN AND PROFILE
C600	LANDSCAPE PLAN
C700	EROSION CONTROL DETAILS
C701	EROSION CONTROL DETAILS
C702	EROSION CONTROL DETAILS
C703	SCM DETAIL
C704	WETLAND PLANTING PLAN
C705	SCM DETAIL
C706	WETLAND PLANTING PLAN
C800	STAKING DETAILS
C801	STAKING DETAILS
C900	UTILITY DETAILS
C901	UTILITY DETAILS
C902	UTILITY DETAILS
C903	UTILITY DETAILS

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY

OLD SAND RIDGE RD, HUBERT, NC 28539

SEALS



DKA JOB NUMBER
2324

REVISIONS

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PA: ZP
PM: YA
Drawn By: SU/SH
Plot Date: 03/12/2025

DATE ISSUED

BID DOCUMENTS

03/12/2025

SHEET TITLE
COVER

C000

MATCHLINE
AREA 2
AREA 1

KEY NOTES

- (A) 24" CURB & GUTTER, SEE DETAIL SHEET C800.
- (B) CONCRETE SIDEWALK, SEE DETAIL SHEET C800.
- (C) GRAVEL DRIVE, SEE DETAIL SHEET C800.
- (D) CONCRETE PAVEMENT, SEE DETAIL SHEET C800.
- (E) ACCESSIBLE PARKING & SIGNAGE, SEE DETAIL SHEET C800.
- (F) SEE ARCHITECTURAL PLANS FOR BUILDING, CANOPY, STRUCTURAL WALLS, BUILDING COLUMNS, MONUMENT SIGNS, BOLLARDS, MECHANICAL YARD AND SCREEN WALLS.
- (G) PRECAST CONCRETE WHEELSTOP, SEE DETAIL SHEET C800.
- (H) FLAG POLE, SEE DETAIL SHEET C800.
- (I) PARKING SPACE STRIPING, SEE TRAFFIC CONTROL NOTES ON THIS SHEET.
- (J) TIE IN TO EXISTING ROAD.
- (K) 4' BLACK VINYL CHAIN LINK FENCE AND GATES, SEE DETAIL SHEET C801.
- (L) ACCESSIBLE PARKING CURB RAMP, SEE DETAIL SHEET C800.
- (M) STOP BAR, SEE TRAFFIC CONTROL NOTES ON THIS SHEET.
- (N) UPLIGHTS, SEE ELECTRICAL PLANS.
- (O) 25" TALL LIGHT POLE, SEE DRAWING NUMBER 0010 SITE ELECTRICAL.
- (P) TRASH RECEPTACLE, SEE SPECIFICATIONS.
- (Q) CONCRETE BAND, SEE DETAIL SHEET C800.
- (R) STANDARD METHOD OF ENDING CURB & GUTTER, SEE DETAIL SHEET C800.
- (S) STOP SIGN.
- (T) BOLLARDS, SEE DETAIL SHEET C801.
- (U) LIGHT DUTY ASPHALT, SEE DETAIL SHEET C800.
- (V) HEAVY DUTY ASPHALT, SEE DETAIL SHEET C800.
- (W) DIRECTIONAL ARROW, SEE TRAFFIC CONTROL NOTES THIS SHEET.

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL ONSLOW COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
- CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- ALL FACE OF RADIUS' ARE 4 FT UNLESS OTHERWISE SHOWN.
- ALL PARKING SPACES SHALL BE 10' WIDE X 20' DEEP MIN.
- (AC) DENOTES ACCESSIBLE PARKING SPACE.
- (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
- ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
- THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
- NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

TRAFFIC CONTROL NOTES

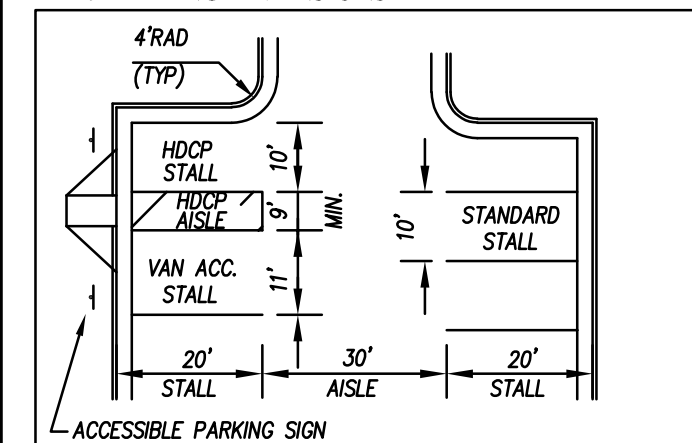
- ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

SIGN	MUTCD STD.	SIZE
STOP	R1-1	30"x30"
ONE WAY	R6-2	24"x30"
DO NOT ENTER (ONE)	R5-1	30"x30"
YIELD	R2-1 WITH R1-2aP	30"x30"
NO PARKING ANY TIME FIRE LANE	R3-SL	12"x18"
LEFT TURN ONLY	R3-SL	30"x36"
- ALL SIGNS SHALL BE MOUNTED WITH 7'-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3'-FT DEEP X 12-IN DIA. CONCRETE FOOTING.
- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACES	4-IN	4-IN	WHT.
CROSSWALK	1205.07(H-VS)	24-IN	WHT.
CROSSWALK	1205.07(STANDARD)	8-IN	WHT.
DIRECTIONAL ARROWS	1205.08	STD.	WHT.
NO PARKING - FIRE LANE *	-	4-IN	YEL.
SKIP	1205.01	4-IN	WHT.
MIN-SKIP (3'-9" TYPE)	1205.01	4-IN	WHT.
SOLID	1205.01	4-IN	WHT.
DIAGONAL	1205.09	8-IN	YEL.
STOP BAR	-	24-IN	WHT.
DOUBLE YELLOW	1205.01	4-IN	YEL.

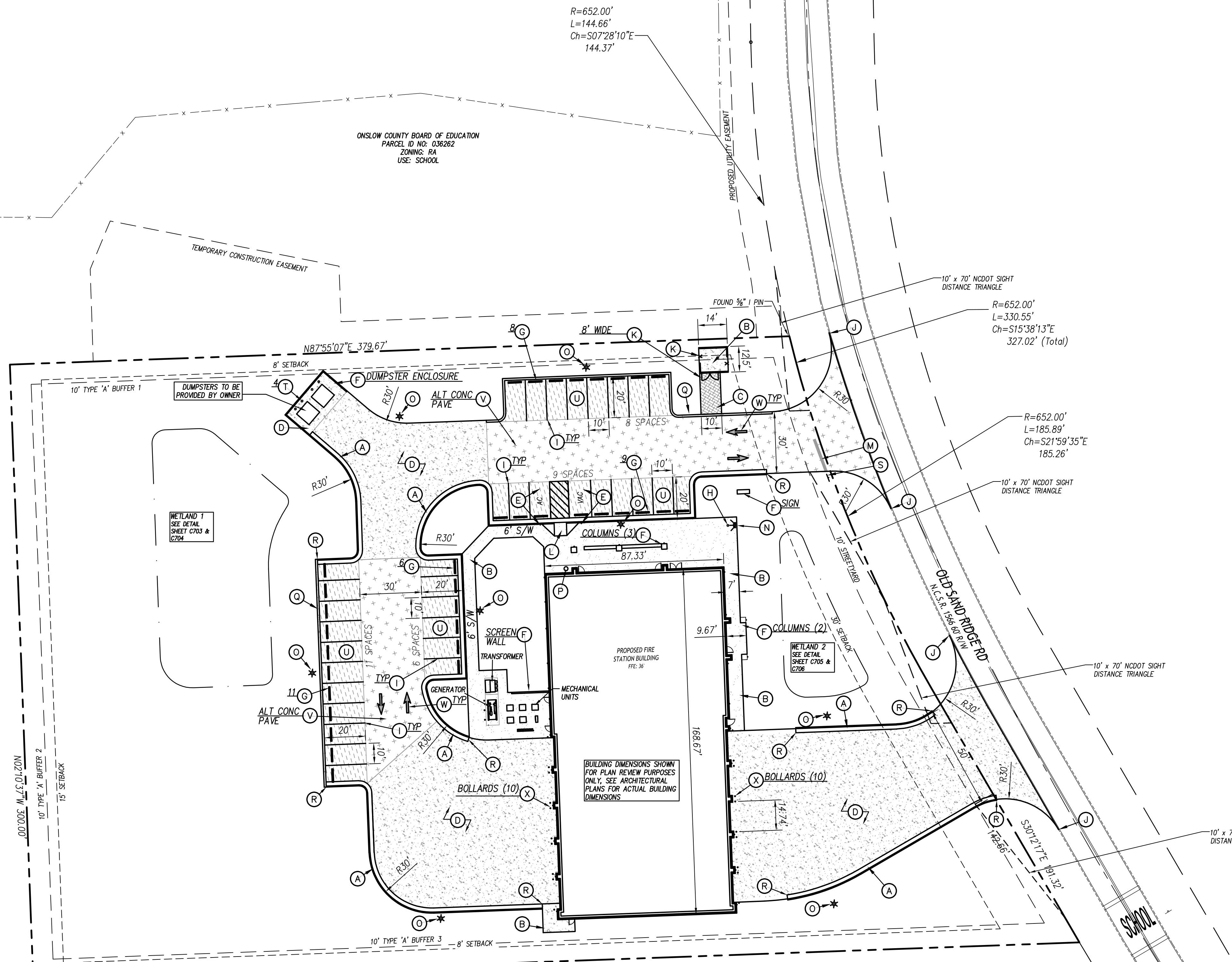
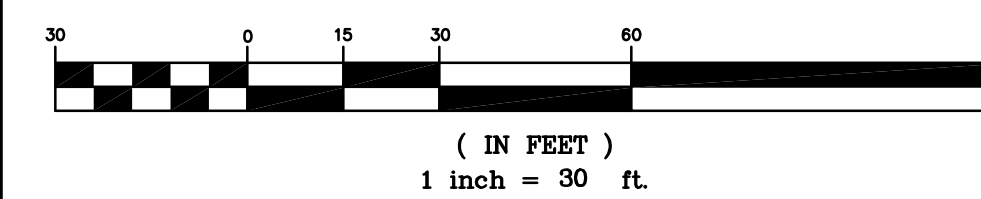
* NO PARKING - FIRE LANE MARKING SHALL BE THERMOPLASTIC AND CONFORM TO ONSLOW COUNTY STANDARD SPECIFICATION 03050.0 FIRE LANE STRIPING AND CONSIST OF A 4" SOLID YELLOW STRIPE AND 8" HIGH YELLOW TEXT "NO PARKING - FIRE LANE" AT 40' INTERVALS.
- ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
- CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
- COORDINATE FIRE LANE MARKINGS WITH ONSLOW COUNTY FIRE MARSHAL.
- ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM REFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.

TYP. PARKING DIMENSIONS



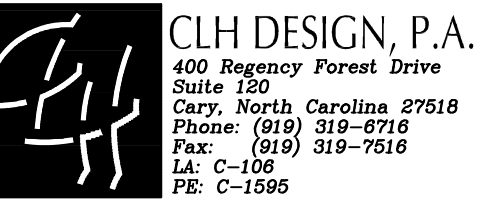
- NOTES:
- ALL DIMENSIONS ARE FROM FACE OF CURB.
 - ALL STANDARD ACCESSIBLE PARKING STALLS SHALL BE 9' WIDE.
 - ALL VAN ACCESSIBLE PARKING STALLS SHALL BE 11' WIDE.

GRAPHIC SCALE



SITE DATA

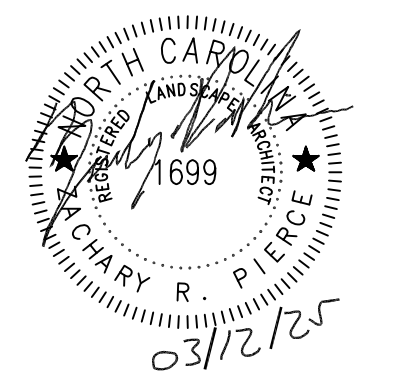
PROJECT: ONSLOW COUNTY - BEAR CREEK FIRE STATION HUBERT, NC	SETBACKS: FRONT = 30 FT SIDE YARD = 8 FT REAR YARD = 15 FT
OWNER: ONSLOW COUNTY	SITE ACREAGE: 3 ACRES
OWNER CONTACT: ONSLOW COUNTY BENJAMIN WARREN - ASSISTANT COUNTY MANAGER 234 NW CORRIDOR BOULEVARD JACKSONVILLE, NC 28540 PHONE: 910-347-4717 BENJAMIN_WARREN@ONSLOWCOUNTYNC.GOV	TAX MAP NO.: 1309-64.1
DESIGNER CONTACT: CLH DESIGN, PA YHOSHUA AAL-ANUBIA, PLA - SENIOR PROJECT MANAGER 400 REGENCY FOREST DRIVE, SUITE 120 CARY, NC 27518 PHONE: 919-319-6716 FAX: 919-319-7516 YAALANUBIA@CLHDESIGNPA.COM	BUILDING SF: 15,289 SF
PROJECT ADDRESS: 138 OLD SAND RIDGE RD. HUBERT, NC 28539	ONSLOW COUNTY PARKING REQUIREMENTS: PARKING CODE: PUBLIC & GMC USE - 30 SPACE MIN. - 1.5/EMPLOYEE REQUIRED ACCESSIBLE PARKING: 2 PARKING REQUIRED: 30 SPACES PARKING PROVIDED: 34 STAFF/VISITOR SPACES (2 ADA) BICYCLE PARKING: N/A
PIN: 534301165704	STORMWATER DEVICES: (2) SCM WETLAND
PARCEL ID #: 175469	FIRE DISTRICT/ISO: NORTHEAST ONSLOW ISO 4
ZONING: RA	STORMWATER PERMIT #: TBD
OVERLAY: N/A	EXISTING WETLANDS: NO WETLANDS ARE PRESENT ON THIS SITE
EXISTING LAND USE: VACANT	SEWER DISTRIBUTION: PUMP STATION AND FORCE MAIN
PROPOSED LAND USE: FIRE STATION	HOURS OF OPERATION: 24 HOURS
LANDSCAPE BUFFERS: ADJACENT TO LAND USE 10'-0" (NORTH, WEST, & SOUTH SIDE) TYPE 'A' 10' BUFFER TO BE PLANTED PER APPENDIX A	EMPLOYEES: 15 (3 SHIFTS, 5 PER SHIFT)



PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY

SEALS



DKA JOB NUMBER
2324

REVISIONS

PA: ZP
PM: YA
Drawn By: SL/SH
Plot Date: 03/12/2025

DATE ISSUED

03/12/2025

SHEET TITLE

STAKING PLAN
C100

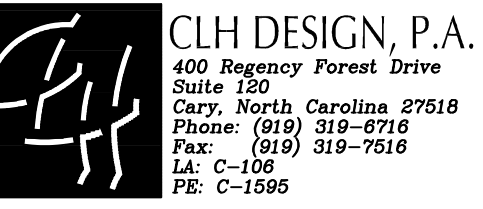
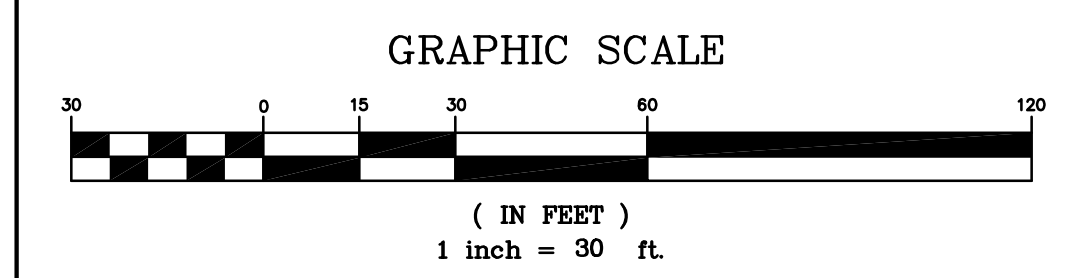
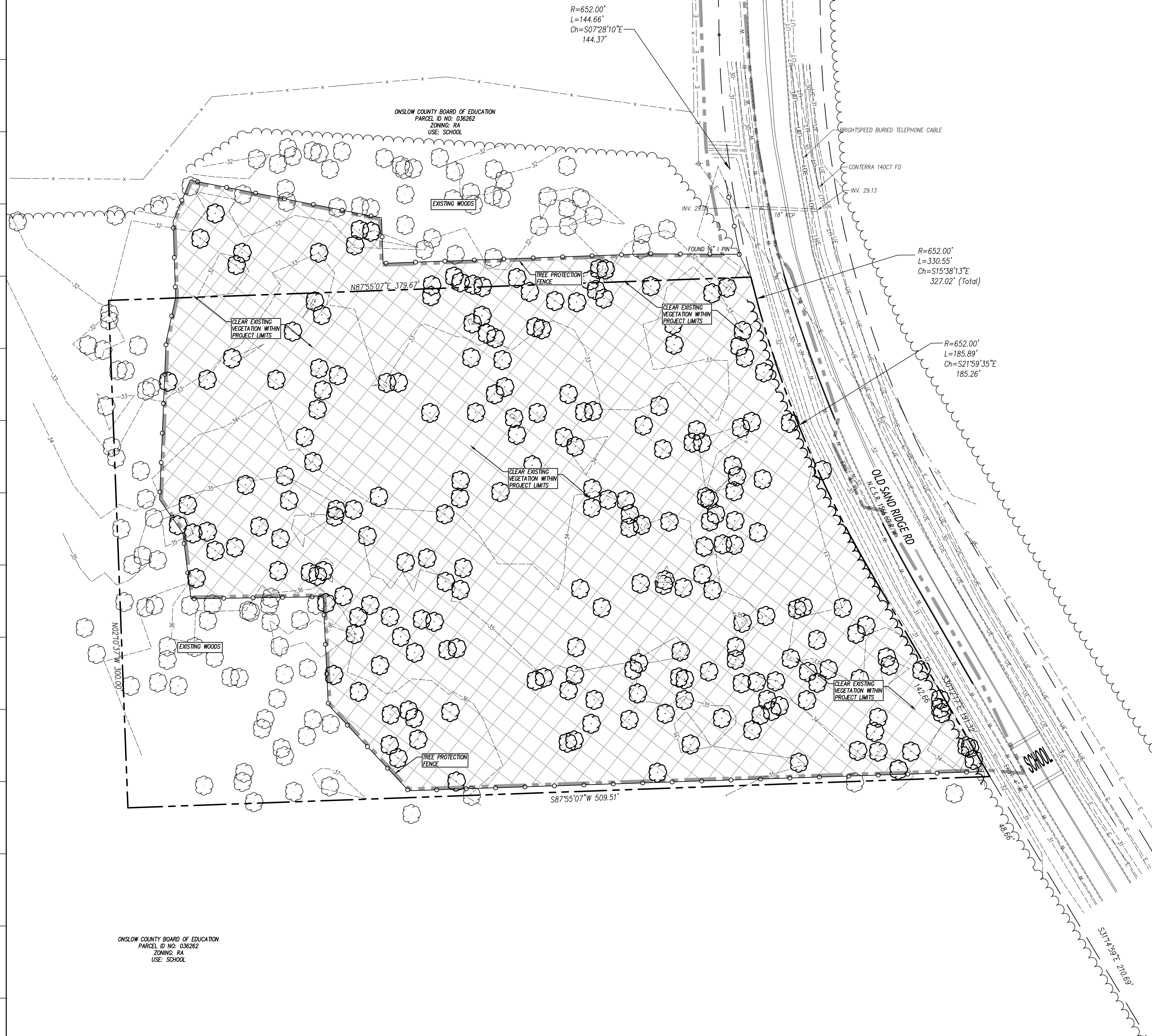
MATCHLINE
AREA 2
AREA 1

GENERAL NOTES

- ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS NEEDED TO ALLOW NEW CONSTRUCTION. IN GENERAL, FEATURES INDICATED IN BOLD ON THIS PLAN SHALL BE REMOVED.
- ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS) TO BE REMOVED.
- ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
- ALL WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
- EXISTING SITE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION WAS TAKEN FROM SURVEY BY STACY L. BATCHELOR FROM TIDEWATER ASSOCIATES, INC. SIGNED 09/12/2024. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE EXISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AND GRUB ALL AREAS AS SHOWN AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS). ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING.
- TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF CLEARING LIMITS, THE CONTRACTOR SHALL CUT 2-FT DEEP TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR ROOTS.
- PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT ARCHITECT IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- VERIFY ALL ILLUSTRATED UNDERGROUND ELEMENTS/UTILITIES. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS/UTILITIES. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS/UTILITIES ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN. CONTACT UTILITY LOCATING SERVICE AT LEAST 48-HRS PRIOR TO EXCAVATION.
- PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, REPAIR IMMEDIATELY AS DIRECTED BY THE ARCHITECT. AREAS TO BE PROTECTED, REPAIRED AND CLEARED SHALL ALSO INCLUDE ANY STAGING AREAS. ACCESS ROUTES AND OTHER EXISTING IMPROVEMENTS WITHIN THE CONSTRUCTION LIMITS THAT ARE TO REMAIN.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL ONSLAW COUNTY AND/OR NCDOT STANDARDS AND SPECIFICATIONS.
- ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH GRADE.
- DEMOLITION AND PATCHING OF PAVEMENT, SIDEWALK, CURB AND GUTTER AND OTHER EXISTING PAVED SURFACES IN ADDITION TO THAT INDICATED ON THIS PLAN SHALL BE PERFORMED AS REQUIRED TO CONSTRUCT AND INSTALL NEW UTILITIES. ALL SUCH DEMOLITION AND PATCHING SHALL BE INCLUDED IN THE BASE BID SCOPE OF WORK. SEE SHEET C200 FOR PAVEMENT REPAIR DETAILS.
- THIS SITE IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP 372034300K, DATED JUNE 19, 2020 AS BEING WITHIN ZONE "X"-OTHER AREA".
- NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

LEGEND

STRUCTURES/UTILITIES TO BE REMOVED		STRUCTURES/UTILITIES TO REMAIN	
OVERHEAD ELECTRICAL	--- E ---	OVERHEAD ELECTRICAL	--- E ---
UNDERGROUND ELECTRICAL	--- UE ---	UNDERGROUND ELECTRICAL	--- UE ---
FIRE PROTECTION	--- FP ---	FIRE PROTECTION	--- FP ---
GAS	--- G ---	GAS	--- G ---
SANITARY SEWER	--- SS ---	SANITARY SEWER	--- SS ---
TELEPHONE	--- T ---	TELEPHONE	--- T ---
UNDERGROUND TELEPHONE	--- UT ---	UNDERGROUND TELEPHONE	--- UT ---
FIBER OPTIC	--- FO ---	FIBER OPTIC	--- FO ---
WATER	--- W ---	WATER	--- W ---
FORCE MAIN	--- FM ---	FORCE MAIN	--- FM ---
STORM DRAIN	=== SD ===	STORM DRAIN	=== SD ===
INDIVIDUAL TREE TO BE REMOVED.		INDIVIDUAL TREE TO REMAIN.	
LIGHT POLE	☆ LP	LIGHT POLE	☆ LP
UTILITY POLE	⊙ UP	UTILITY POLE	⊙ UP
MANHOLE	⊙ MH	MANHOLE	⊙ MH
CLEAN OUT	⊙ CO	CLEAN OUT	⊙ CO
DROP INLET,CATCH BASIN	⊙ DI, CB	DROP INLET,CATCH BASIN	⊙ DI, CB
FIRE HYDRANT	⊙ FH	FIRE HYDRANT	⊙ FH
WATER VALVE	⊙ WV	WATER VALVE	⊙ WV
CONSTR./CLEARING LIMITS	--- CL ---	CLEAR AND GRUB EXISTING VEGETATION	
TREE PROTECTION FENCE	--- TP ---		
SEE DETAIL C701			

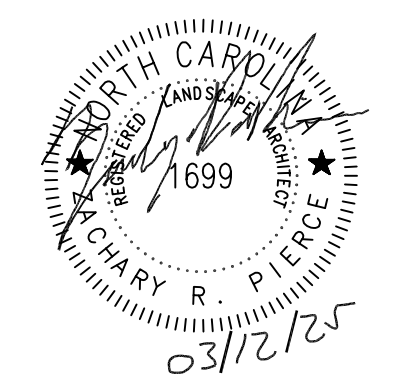


PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY

OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS



DKA JOB NUMBER
2324

REVISIONS

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PA: ZP
PM: YA
Drawn By: SL/SH
Plot Date: 03/12/2025

DATE ISSUED

BID DOCUMENTS

03/12/2025

SHEET TITLE
EXISTING CONDITIONS & DEMO PLAN

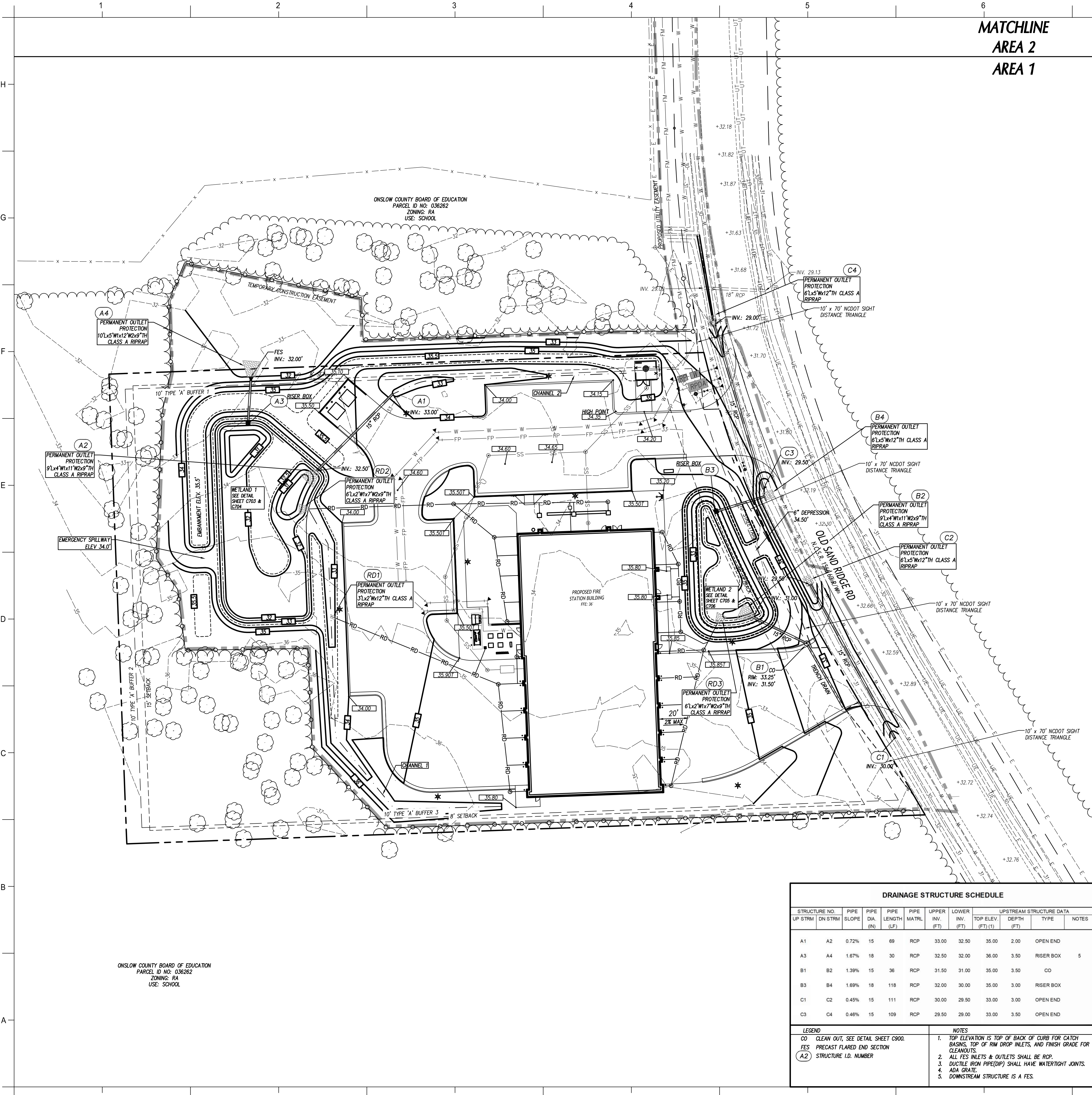
C200

MATCHLINE
AREA 2
AREA 1

GRADING LEGEND

- EXISTING CONTOURS
- FINAL CONTOURS
- EXISTING SURVEY SPOT ELEVATION
- PROPOSED TOP OF CURB SPOT ELEVATION
- PROPOSED GROUND/PAVEMENT ELEVATION
- STORM STRUCTURE NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- PROPOSED FOUNDATION DRAIN DISCHARGE LINE. SEE ARCH. PLANS FOR DRAIN PIPE LOCATIONS ALONG BUILDING WALLS.
- PROPOSED ROOF DRAIN
- LIMITS OF GRADING

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL ONSLOW COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
 - ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
 - TOTAL DENIED AREA = 4 AC.
 - CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
 - ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY. SEE DETAIL ON SHEET C701.
 - EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
 - ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
 - THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
 - THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
 - THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
 - CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER ROAD STRUCTURES. NOTIFY ARCHITECT IF DISCREPANCIES OCCUR.



DRAINAGE STRUCTURE SCHEDULE

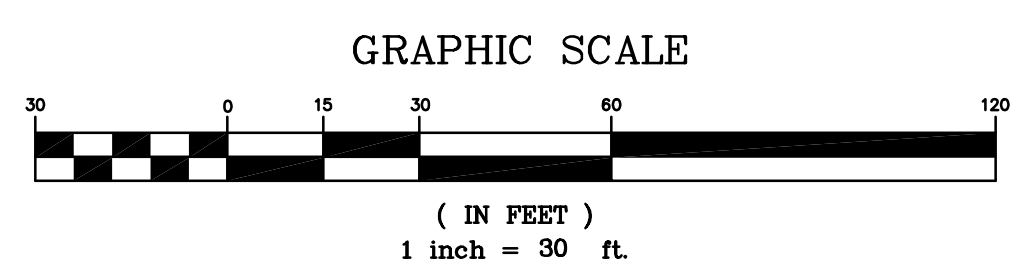
STRUCTURE NO.	PIPE DIA. (IN)	PIPE SLOPE	PIPE LENGTH (LF)	PIPE MATL.	UPPER INV. (FT)	LOWER INV. (FT)	UPSTREAM STRUCTURE DATA			
							TOP ELEV. (FT)	DEPTH (FT)	TYPE	
A1	A2	0.72%	15	66	RCP	33.00	32.50	35.00	2.00	OPEN END
A3	A4	1.67%	18	30	RCP	32.50	32.00	36.00	3.50	RISER BOX 5
B1	B2	1.39%	15	36	RCP	31.50	31.00	35.00	3.50	CO
B3	B4	1.69%	18	118	RCP	32.00	30.00	35.00	3.00	RISER BOX
C1	C2	0.46%	15	111	RCP	30.00	29.50	33.00	3.00	OPEN END
C3	C4	0.46%	15	108	RCP	29.50	29.00	33.00	3.50	OPEN END

LEGEND

- CO CLEAN OUT, SEE DETAIL SHEET C800.
- FES PRECAST FLARED END SECTION
- A2 STRUCTURE I.D. NUMBER

NOTES

- TOP ELEVATION IS TOP OF BACK OF CURB FOR CATCH BASINS, TOP OF RIM DROP INLETS, AND FINISH GRADE FOR CLEANOUTS.
- ALL FES INLETS & OUTLETS SHALL BE RCP.
- DUCTILE IRON PIPE(DIP) SHALL HAVE WATERTIGHT JOINTS.
- ADA GRATE.
- DOWNSTREAM STRUCTURE IS A FES.



ONSLOW COUNTY BOARD OF EDUCATION
 PARCEL ID NO: 036262
 ZONING: RA
 USE: SCHOOL



MATCHLINE
AREA 2
AREA 1

LEGEND

	TEMP. GRAVEL CONSTR. ENTRANCE SEE DETAIL SHEET C700		TEMP. SKIMMER SEDIMENT BASIN SEE DETAIL SHEET C702
	TEMP. DIVERSION DITCH / BERM SEE DETAIL SHEET C701		EXISTING CONTOUR
	TEMP. SILT FENCE SEE DETAIL SHEET C701		FINISHED CONTOUR
	TEMP. REINFORCED SILT FENCE OUTLET, SEE DETAIL SHEET C700		TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
	PERMANENT OUTLET PROTECTION SEE DETAIL SHEET C701		CHANNEL LINING SEE DETAIL SHEET C701
	TEMP. CONCRETE WASHOUT AREA SEE DETAIL SHEET C700		TEMP. DEWATERING SILT BAG SEE DETAIL SHEET C700
	PROPOSED STORM SEWER PIPES		TREE PROTECTION FENCE SEE DETAIL SHEET C701
	EXISTING STORM SEWER PIPES		TEMP. COMPOST SOCK SEE DETAIL SHEET C701
	CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.		TEMP. COMPOST SOCK IN CHANNEL SEE DETAIL SHEET C700
	TEMP. ROCK PIPE INLET PROTECTION SEE DETAIL SHEET C702		

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL ONSLAW COUNTY, NCEOE, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
 - THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL ON-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
 - THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITY OR ARCHITECT.
 - TOTAL DISTURBED AREA: 4.0 AC.
 - ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET C701.
 - ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CLEANING SHALL BE PERFORMED IN A MANNER WHICH PREVENTS SEDIMENT FROM BEING FLUSHED THROUGH PIPES TO THE EXISTING DRAINAGE SYSTEM.
 - THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
 - SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
 - THE TREE PROTECTION FENCING SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
 - TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
 - ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS. SEE DETAIL SHEET C702 (PERMANENT CHANNEL) AND C702 (TEMPORARY DIVERSION DITCH) FOR TYPE OF MATTING TO USE.
 - ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CHANGES PURPOSES IS TO BE DONE THROUGH A SILT BAG.
 - ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
 - GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
 - CONTRACTOR SHALL USE TREE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.
 - CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

- MAINTENANCE PLAN**
- DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET C700) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
 - FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C700) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
 - THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
 - SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
 - ALL OTHER SEEDING AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

SELF-INSPECTION RULES

SEE SHEET C706 FOR SELF-INSPECTION REQUIREMENTS.

THE CONTRACTOR (ACTING AS AN AGENT OF THE FINANCIAL RESPONSIBLE PERSON) SHALL PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENT CONTROL MEASURES USING NCEOE'S SELF INSPECTION REPORT (WORKSHEET) AND SHALL KEEP COPIES OF ALL REPORTS ON-SITE.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C705.

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 1.6(2) (b)).

THE REQUIREMENTS ON SHEET C705 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXCESSIVE MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCOMAT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312300 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

SEE SHEET C400 & C401 FOR EROSION CONTROL CONSTRUCTION SEQUENCE.

SEE SHEET C700 FOR EROSION CONTROL GROUND COVER PLAN FOR MORE INFORMATION.

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

SEALS

DKA JOB NUMBER
2324

REVISIONS

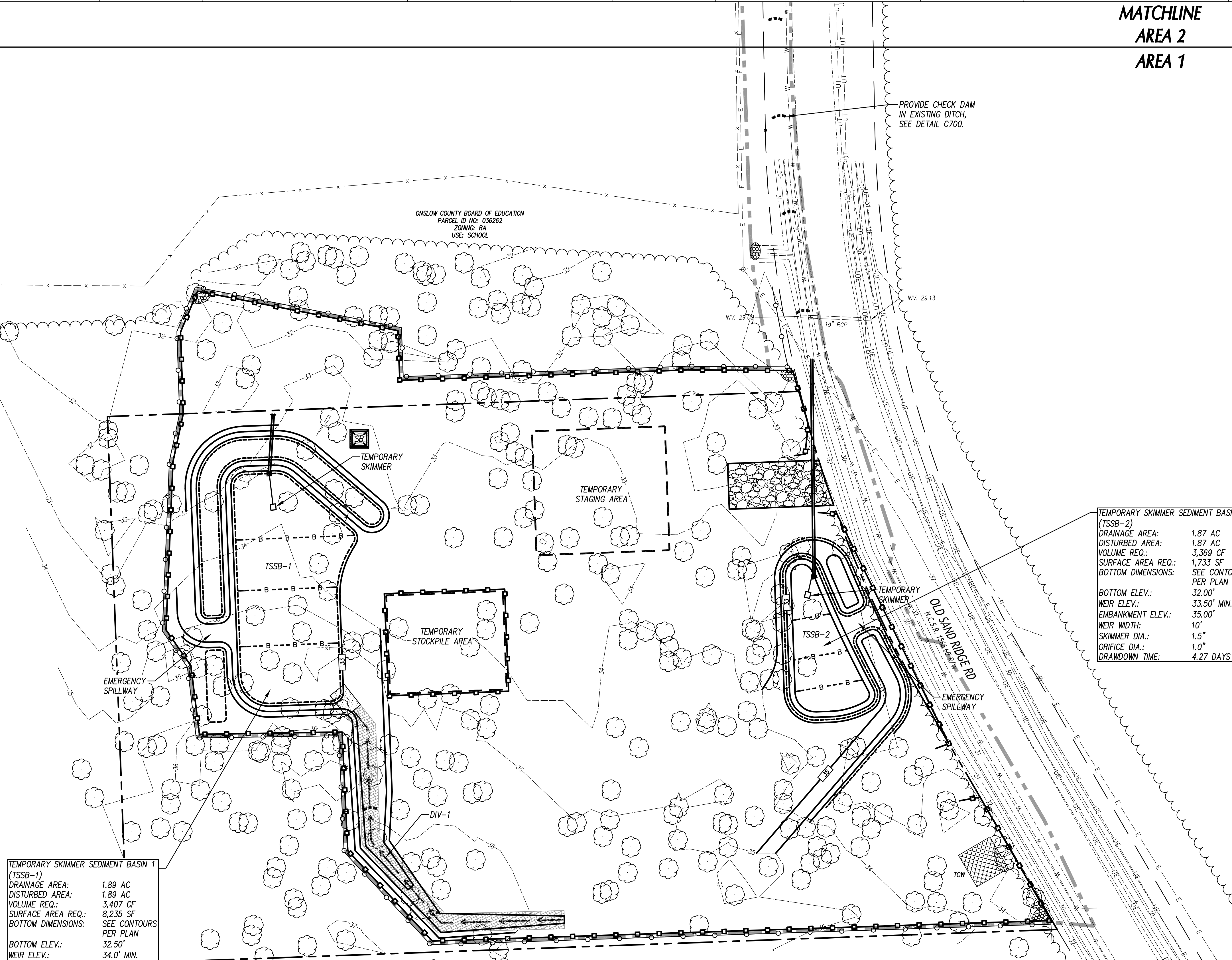
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DATE ISSUED
03/12/2025

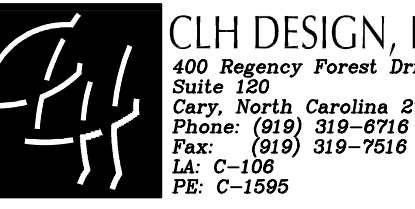
BID DOCUMENTS

SHEET TITLE
INITIAL EROSION CONTROL PLAN

C400



- CONSTRUCTION SEQUENCE**
INITIAL EROSION CONTROL INSTALLATION
- OBTAIN APPROVED PLAN AND APPROVAL PLACARD. A COPY OF THE APPROVED PLAN MUST BE ON FILE AT THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED STARTING DATE OF LAND DISTURBING ACTIVITIES.
 - EROSION AND SEDIMENT CONTROL (EASC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES (INCLUDING TIMBERING AND DEMOLITION) OCCUR.
 - INSTALL TREE PROTECTION FENCING.
 - CONTACT NC DEQ WILMINGTON REGIONAL OFFICE AT 919-791-4200 TO SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO PROJECT ACTIVATION.
 - CONDUCT PRE-CONSTRUCTION CONFERENCE.
 - THE FOLLOWING MUST BE KEPT ON SITE UNTIL THE EASC PLAN HAS BEEN CLOSED OUT BY LAND QUALITY: RAIN GAUGE, A COPY OF APPROVED EASC PLAN WITH APPROVAL CERTIFICATE/LETTER, COC, AND NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS OF SELF-INSPECTION RECORDS (SEE SELF-INSPECTION REQUIREMENTS BELOW). THESE ITEMS SHOULD BE LOCATED NEAR THE MAIN CONSTRUCTION ENTRANCE. FAILURE TO MAINTAIN THESE ON-SITE VIOLATES THE NPDES PERMIT.
 - CONTACT THE NC DEQ WILMINGTON OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITIES.
 - INSTALL CONSTRUCTION ENTRANCE, PERMETER SILT FENCES, TEMPORARY SEDIMENT SKIMMERS, TEMPORARY CHECK DAMS, DIVERSION DITCHES AND TEMPORARY COMPOST SOCKS. ALL TEMPORARY BASINS AND DIVERSIONS SHALL BE SEED, MULCHED, LINED AND ANCHORED UPON INSTALLATION. ALL DIVERSION DITCHES WILL BE LINED TO THE TOP OF BANK. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - INSTALL STORMWATER WETLAND BARREL, FOLLOWED BY EMBANKMENTS, AND THEN OUTLET STRUCTURES IN DRY CONDITIONS. KEEP ALL ORIFICES BLOCKED UP TO THE REQUIRED SEDIMENT BASIN POOL ELEVATION. INSTALL TEMPORARY SKIMMERS ON WETLAND DRAIN. KEEP WETLAND DRAIN VALVE OPEN WHILE TEMPORARY SKIMMER IS OPERATIONAL. SEE WETLAND DETAIL SHEETS. INSTALL PERMANENT OUTLET PROTECTION. EXCAVATE BASINS AND INSTALL TEMPORARY SLOPE DRAIN AND TEMPORARY OUTLET PROTECTION. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - ESTABLISH TEMPORARY CONSTRUCTION TRAILERS WITHIN STAGING AREA.
 - INSTALL TEMPORARY DIVERSIONS, TEMPORARY SLOPE DRAINS AND TEMPORARY OUTLET PROTECTION. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - INSTALL SILT FENCE FOR TEMPORARY STOCKPILE LOCATION. ALL BARE SOILS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - PERMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY DIVERSIONS, TEMPORARY SKIMMERS AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE. SEDIMENT BASINS MAY NOT BE REMOVED OR CONVERTED TO PERMANENT SOCS UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED.
 - AFTER REMOVAL OF TEMPORARY DIVERSIONS, INSTALL SECOND CONSTRUCTION ENTRANCE PER THE PLANS.
 - CLEAR AND GRUB AREAS ONLY AS REQUIRED FOR INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES.
 - CALL FOR INSPECTION OF INSTALLED DEVICES.
- CONSTRUCTION EROSION CONTROL & MAINTENANCE**
- CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS. HOWEVER, WITHIN BUFFERED STREAMS AND STREAM BANKS, MANUALLY CUT VEGETATION AND DO NOT REMOVE ROOT MASSES. REMOVE ROOT MASSES JUST PRIOR TO INSTALLING PERMANENT MAINTENANCE MEASURES.
 - STRIP TOPSOIL, STOCKPILE TOPSOIL WITHIN TEMPORARY STOCKPILE LIMITS. MAINTAIN ALL SILT FENCE AROUND TEMPORARY STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - BEFORE ROUGH GRADING OPERATIONS.
 - AT THE END OF EACH DAY, INSTALL AND ADJUST DIVERSION DITCHES, TEMPORARY CHANNEL CHECK DAMS/COMPOST SOCKS AND TEMPORARY SLOPE DRAINS AT THE EDGE OF THE FILL SLOPES TO CONTINUE TO DIRECT RUN-OFF TO TEMPORARY BASINS.
 - INSTALL STORM DRAINAGE SYSTEM AS GRADING OPERATIONS PROGRESS. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY. STORM DRAINAGE SYSTEM SHALL BE INSTALLED IN DRY CONDITIONS. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
 - INSTALL SLOPE PROTECTION BLANKETS AND TEMPORARILY SEED STEEP SLOPES AS THEY ARE ESTABLISHED AT FINISH GRADE. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - RESURFACE TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS AND VEGETATE STEEP SLOPES AS THE ARE ESTABLISHED. STABILIZE ROADSIDE DITCHES AND CHANNELS DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. INSTALL TEMPORARY CHANNEL WATLES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - VEGETATE (OR OTHERWISE STABILIZE WITH PAVEMENT, BUILDING PAD ETC.) IMMEDIATELY TO ALL DISTURBED AREAS AS SHOWN IN SLOPE AND STABILIZATION NOTES. MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT. SEE STABILIZATION NOTES AND NPDES TIME TABLE.
 - INSTALL SILT BAG INLET PROTECTION ONCE CURB & GUTTER IS INSTALLED. PROVIDE TEMPORARY SAND BAGS TO DIRECT RUN-OFF INTO INLETS.
 - MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.
 - ANY DEWATERING IS TO BE DONE THROUGH A SILT BAG WITH A FLOATING INTAKE THAT IS CONSTANTLY MONITORED WHILE IN USE.
- REMOVAL OF EROSION CONTROL DEVICES**
- CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, PUMP SEDIMENT LASH WATER THROUGH SILT BAGS AND REMOVE TEMPORARY SEDIMENT SKIMMER BASINS. INSTALL REMAINING PORTIONS OF PERMANENT CHANNELS AND SEED AND MULCH SLOPE OF ALL DISTURBED AREAS REMAINING ON SITE. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - CONVERT TEMPORARY SEDIMENT BASINS INTO PERMANENT STORMWATER WETLANDS. PUMP/DEWATER BASIN THROUGH SILT BAG. CLOSE DRAIN VALVE, REMOVE TEMPORARY SKIMMERS, BAFFLES AND OTHER TEMPORARY COMPONENTS. EXCAVATE SEDIMENT AND GRADE TO FINISH WETLAND CONTOURS. SEE STORMWATER WETLAND DETAILS FOR ADDITIONAL CONSTRUCTION SEQUENCING. INSTALL WETLAND PLANTINGS. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - REMOVE TEMPORARY CONSTRUCTION ENTRANCES, CONTRACTOR STAGING AREA AND ANY REMAINING TEMPORARY MATERIAL STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES. SEED AND MULCH ANY REMAINING DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - PERFORM AS-BUILT TOPOGRAPHIC SURVEYS OF POND AND SITE UTILITIES AS REQUIRED FOR CERTIFICATE OF OCCUPANCY CERTIFICATIONS.
 - WHEN THE PROJECT IS COMPLETE, THE PERMITEE SHALL CONTACT DEMUR TO CLOSE OUT THE EASC PLAN. AFTER DEMUR INFORMS THE PERMITEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITEE SHALL VISIT deq.nc.gov/NC001 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (e-NOT). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE e-NOT HAS BEEN FILLED OUT.



PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY

OLD SAND RIDGE RD, HUBERT, NC 28539

SEALS

DKA JOB NUMBER
2324

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED
03/12/2025

BID DOCUMENTS

SHEET TITLE
INITIAL EROSION CONTROL PLAN

C400

MATCHLINE
AREA 2
AREA 1

LEGEND

	TEMP. GRAVEL CONSTR. ENTRANCE SEE DETAIL SHEET C700		TEMP. SKIMMER SEDIMENT BASIN SEE DETAIL SHEET C702
	TEMP. DIVERSION DITCH / BERM SEE DETAIL SHEET C701		EXISTING CONTOUR
	TEMP. REINFORCED SILT FENCE SEE DETAIL SHEET C700		FINISHED CONTOUR
	PERMANENT OUTLET PROTECTION SEE DETAIL SHEET C701		TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
	PROPOSED STORM SEWER PIPES		CHANNEL LINING SEE DETAIL SHEET C701
	EXISTING STORM SEWER PIPES		TEMP. DEWATERING SILT BAG SEE DETAIL SHEET C700
	CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.		TREE PROTECTION FENCE SEE DETAIL SHEET C701
	TEMP. ROCK PIPE INLET PROTECTION SEE DETAIL SHEET C702		TEMP. COMPOST SOCK SEE DETAIL SHEET C701
			TEMP. COMPOST SOCK IN CHANNEL SEE DETAIL SHEET C700

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL ONSLAW COUNTY, NCEQ, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
 - THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE. ALL OFF-SITE SOIL, ROCK, AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
 - THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITY OR ARCHITECT.
 - TOTAL DISTURBED AREA: 4.0 AC.
 - ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET C701.
 - ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CLEANING SHALL BE PERFORMED IN A MANNER WHICH PREVENTS SEDIMENT FROM BEING FLUSHED THROUGH PIPES TO THE EXISTING DRAINAGE SYSTEM.
 - THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
 - SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
 - TREE PROTECTION SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
 - TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPAIR AND REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
 - ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS. SEE DETAIL SHEET C702 (PERMANENT CHANNEL) AND C702 (TEMPORARY DIVERSION DITCH) FOR TYPE OF MATTING TO USE.
 - ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
 - ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
 - GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
 - CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.
 - CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

TEMPORARY SKIMMER SEDIMENT BASIN 1 (TSSB-1)

DRAINAGE AREA:	1.89 AC
DISTURBED AREA:	1.89 AC
VOLUME REQ.:	3,407 CF
SURFACE AREA REQ.:	8,235 SF
BOTTOM DIMENSIONS:	SEE CONTOURS PER PLAN
BOTTOM ELEV.:	32.50'
WEIR ELEV.:	34.0' MIN.
EMBANKMENT ELEV.:	35.5'
WEIR WIDTH:	10'
SKIMMER DIA.:	1.5"
ORIFICE DIA.:	1.0"
DRAWDOWN TIME:	4.32 DAYS

TEMPORARY SKIMMER SEDIMENT BASIN 2 (TSSB-2)

DRAINAGE AREA:	1.87 AC
DISTURBED AREA:	1.87 AC
VOLUME REQ.:	3,369 CF
SURFACE AREA REQ.:	1,733 SF
BOTTOM DIMENSIONS:	SEE CONTOURS PER PLAN
BOTTOM ELEV.:	32.00'
WEIR ELEV.:	33.50' MIN.
EMBANKMENT ELEV.:	35.00'
WEIR WIDTH:	10'
SKIMMER DIA.:	1.5"
ORIFICE DIA.:	1.0"
DRAWDOWN TIME:	4.27 DAYS

- MAINTENANCE PLAN**
- DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET C700) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
 - FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C700) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
 - THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
 - SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
 - ALL OTHER SEEDING AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.
- SELF-INSPECTION RULES**
- SEE SHEET C706 FOR SELF-INSPECTION REQUIREMENTS.
- THE CONTRACTOR (ACTING AS AN AGENT OF THE FINANCIAL RESPONSIBLE PERSON) SHALL PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENT CONTROL MEASURES USING NCEM's SELF INSPECTION REPORT (WORKSHEET) AND SHALL KEEP COPIES OF ALL REPORTS ON-SITE.
- SLOPE & SURFACE STABILIZATION**
- GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C705.
- EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 1.6(2) (b)).
- THE REQUIREMENTS ON SHEET C705 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.
- INSTALL TEMPORARY EXCELSDOR MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCOMAT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

SEE SHEET C400 & C401 FOR EROSION CONTROL CONSTRUCTION SEQUENCE.

SEE SHEET C700 FOR EROSION CONTROL GROUND COVER PLAN FOR MORE INFORMATION.

GRAPHIC SCALE

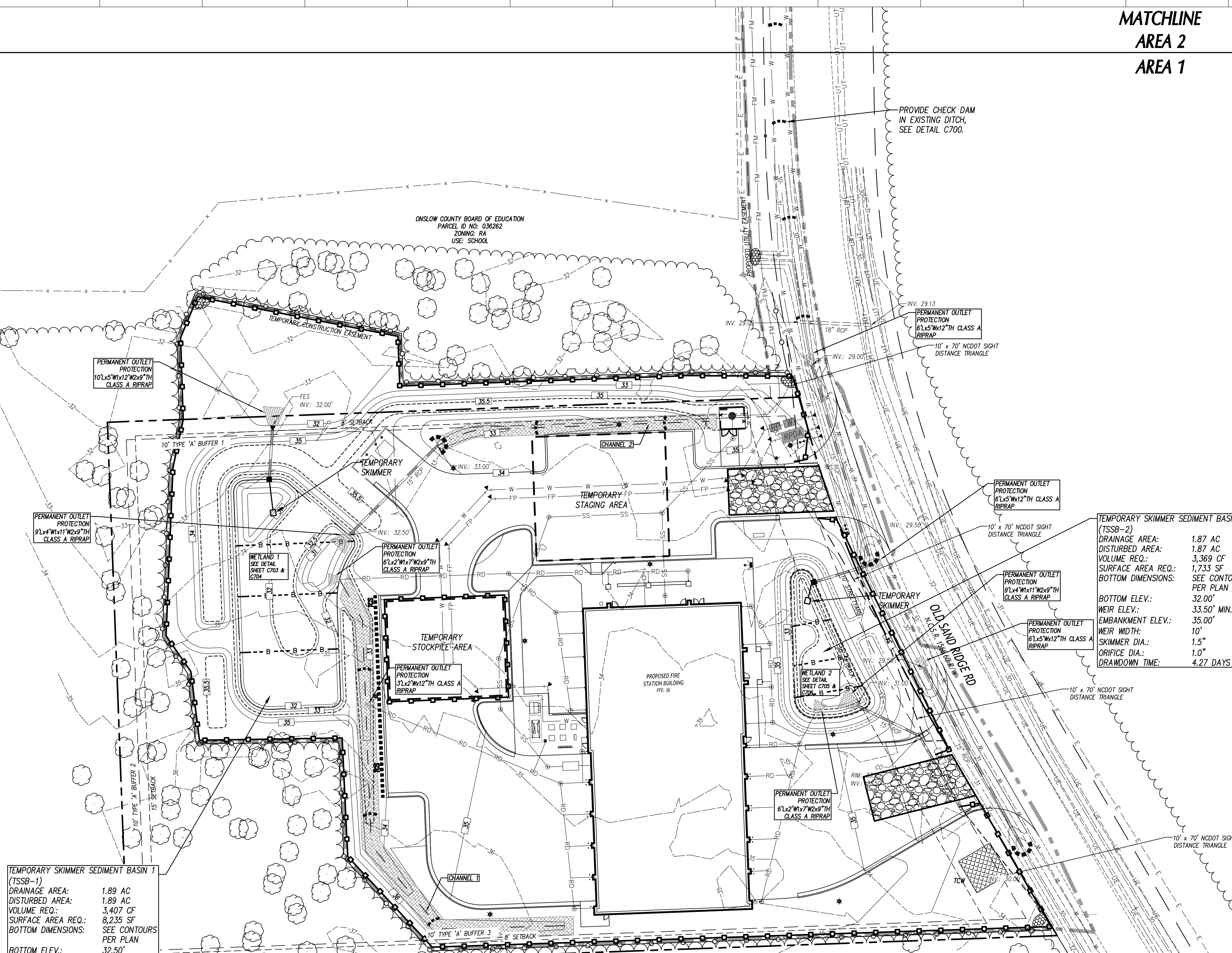
(IN FEET)

1 inch = 30 ft.

DKA JOB NUMBER	2324
REVISIONS	
DATE ISSUED	03/12/2025
BID DOCUMENTS	
SHEET TITLE	FINAL EROSION CONTROL PLAN
C401	

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PA: ZP
PM: YA
Drawn By: SL/SH
Plot Date: 03/12/2025



TEMPORARY SKIMMER SEDIMENT BASIN 1 (TSSB-1)

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VOLUME REQ.:	3,407 CF
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EMBANKMENT ELEV.:	35.5'
WEIR WIDTH:	10'
SKIMMER DIA.:	1.5"
ORIFICE DIA.:	1.0"
DRAWDOWN TIME:	4.32 DAYS

- CONSTRUCTION SEQUENCE**
- INITIAL EROSION CONTROL INSTALLATION
- OBTAIN APPROVED PLAN AND APPROVAL PLACARD. A COPY OF THE APPROVED PLAN MUST BE ON FILE AT THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED STARTING DATE OF LAND DISTURBING ACTIVITIES.
 - EROSION AND SEDIMENT CONTROL (EASC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES (INCLUDING TIMBERING AND DEMOLITION) OCCUR.
 - INSTALL TREE PROTECTION FENCING.
 - CONTACT NC DEQ WILMINGTON REGIONAL OFFICE AT 919-791-4200 TO SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO PROJECT ACTIVATION.
 - CONDUCT PRE-CONSTRUCTION CONFERENCE.
 - THE FOLLOWING MUST BE KEPT ON SITE UNTIL THE EASC PLAN HAS BEEN CLOSED OUT BY LAND QUALITY: RAIN GAUGE, A COPY OF APPROVED EASC PLAN WITH APPROVAL CERTIFICATE/LETTER, COC, AND NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS OF SELF-INSPECTION RECORDS (SEE SELF-INSPECTION REQUIREMENTS BELOW). THESE ITEMS SHOULD BE LOCATED NEAR THE MAIN CONSTRUCTION ENTRANCE. FAILURE TO MAINTAIN THESE ON-SITE VIOLATES THE NPDES PERMIT.
 - CONTACT THE NC DEQ WILMINGTON OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITIES.
 - INSTALL CONSTRUCTION ENTRANCE, AND PERMETER SILT FENCES, TEMPORARY SEDIMENT SKIMMER BASINS, TEMPORARY CHECK DAMS, DIVERSION DITCHES AND TEMPORARY COMPOST SOCKS. ALL TEMPORARY BASINS AND DIVERSIONS SHALL BE SEED, MULCHED, LINED AND ANCHORED UPON INSTALLATION. ALL DIVERSION DITCHES WILL BE LINED TO THE TOP OF BANK. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - INSTALL STORMWATER WETLAND BARREL, FOLLOWED BY EMBANKMENTS, AND THEN OUTLET STRUCTURES IN DRY CONDITIONS. KEEP ALL ORIFICES BLOCKED UP TO THE REQUIRED SEDIMENT BASIN POOL ELEVATION. INSTALL TEMPORARY SKIMMERS ON WETLAND DRAIN. KEEP WETLAND DRAIN VALVE OPEN WHILE TEMPORARY SKIMMER IS OPERATIONAL. SEE WETLAND DETAIL SHEETS. INSTALL PERMANENT OUTLET PROTECTION. EXCAVATE BASINS AND INSTALL TEMPORARY SLOPE DRAIN AND TEMPORARY OUTLET PROTECTION. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - ESTABLISH TEMPORARY CONSTRUCTION TRAILERS WITHIN STAGING AREA.
 - INSTALL TEMPORARY DIVERSIONS, TEMPORARY SLOPE DRAINS AND TEMPORARY OUTLET PROTECTION. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - INSTALL SILT FENCE FOR TEMPORARY STOCKPILE LOCATION. ALL BARE SOILS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - PERMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY CONSTRUCTION MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE. SEDIMENT BASINS MAY NOT BE REMOVED OR CONVERTED TO PERMANENT SOMS UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED.
 - AFTER REMOVAL OF TEMPORARY DIVERSIONS, INSTALL SECOND CONSTRUCTION ENTRANCE PER THE PLANS.
 - CLEAR AND GRUB AREAS ONLY AS REQUIRED FOR INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES.
 - CALL FOR INSPECTION OF INSTALLED DEVICES.

- CONSTRUCTION EROSION CONTROL & MAINTENANCE**
- CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS. HOWEVER, WITHIN BUFFERED STREAMS AND STREAM BANKS, MANUALLY CUT VEGETATION AND DO NOT REMOVE ROOT MASSES. REMOVE ROOT MASSES JUST PRIOR TO INSTALLING PERMANENT MAINTENANCE MEASURES.
 - STRIP TOPSOIL, STOCKPILE TOPSOIL WITHIN TEMPORARY STOCKPILE LIMITS. MAINTAIN ALL SILT FENCE AROUND TEMPORARY STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - BEGIN ROUGH GRADING OPERATIONS.
 - AT THE END OF EACH DAY, INSTALL AND ADJUST DIVERSION DITCHES, TEMPORARY CHANNEL CHECK DAMS/COMPOST SOCKS AND TEMPORARY SLOPE DRAINS AT THE EDGE OF THE FILL SLOPES TO CONTINUE TO DIRECT RUN-OFF TO TEMPORARY BASINS.
 - INSTALL STORM DRAINAGE SYSTEM AS GRADING OPERATIONS PROGRESS. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY. STORM DRAINAGE SYSTEM SHALL BE INSTALLED IN DRY CONDITIONS. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
 - INSTALL SLOPE PROTECTION BLANKETS AND TEMPORARILY SEED STEEP SLOPES AS THEY ARE ESTABLISHED AT FINISH GRADE. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - RESURFACED TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS AND VEGETATE STEEP SLOPES AS THE ARE ESTABLISHED. STABILIZE ROADSIDE DITCHES AND CHANNELS DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. INSTALL TEMPORARY CHANNEL MATS. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - VEGETATE (OR OTHERWISE STABILIZE WITH PAVEMENT, BUILDING PAD ETC.) IMMEDIATELY TO ALL DISTURBED AREAS AS SHOWN IN SLOPE AND STABILIZATION NOTES. MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT. SEE STABILIZATION NOTES AND NPDES TIME TABLE.
 - INSTALL SILT BAG INLET PROTECTION ONCE CURB & GUTTER IS INSTALLED. PROVIDE TEMPORARY SAND BASIN TO DIRECT RUN-OFF INTO INLETS.
 - MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.
 - ANY DEWATERING IS TO BE DONE THROUGH A SILT BAG WITH A FLOATING INTAKE THAT IS CONSTANTLY MONITORED WHILE IN USE.

- REMOVAL OF EROSION CONTROL DEVICES**
- CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, PUMP SEDIMENT LASH WATER THROUGH SILT BAGS AND REMOVE TEMPORARY SEDIMENT SKIMMER BASINS. INSTALL REMAINING PORTIONS OF PERMANENT CHANNELS AND SEED AND MULCH SLOPE OF ALL DISTURBED AREAS REMAINING ON SITE. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - CONVERT TEMPORARY SEDIMENT BASINS INTO PERMANENT STORMWATER WETLANDS. PUMP/DEWATER BASIN THROUGH SILT BAG. CLOSE DRAIN VALVE, REMOVE TEMPORARY SKIMMERS, Baffles AND OTHER TEMPORARY COMPONENTS. EXCAVATE SEDIMENT AND GRADE TO FINISH WETLAND CONTOURS. SEE STORMWATER WETLAND DETAILS FOR ADDITIONAL CONSTRUCTION SEQUENCING. INSTALL WETLAND PLANTINGS. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - REMOVE TEMPORARY CONSTRUCTION ENTRANCES, CONTRACTOR STAGING AREA AND ANY REMAINING TEMPORARY MATERIAL STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES. SEED AND MULCH ANY REMAINING DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
 - PERFORM AS-BUILT TOPOGRAPHIC SURVEYS OF POND AND SITE UTILITIES AS REQUIRED FOR CERTIFICATE OF OCCUPANCY CERTIFICATIONS.
 - WHEN THE PROJECT IS COMPLETE, THE PERMITEE SHALL CONTACT DEMUR TO CLOSE OUT THE EASC PLAN. AFTER DEMUR INFORMS THE PERMITEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITEE SHALL VISIT deq.nc.gov/NCOI TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (e-NOT). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE e-NOT HAS BEEN FILLED OUT.

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PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION

ONSLOW COUNTY

OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS

DKA JOB NUMBER

2324

REVISIONS

DATE ISSUED

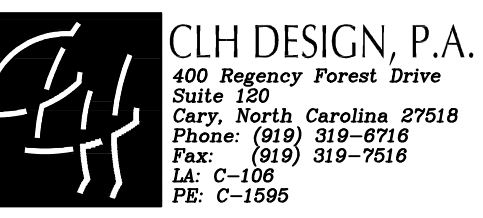
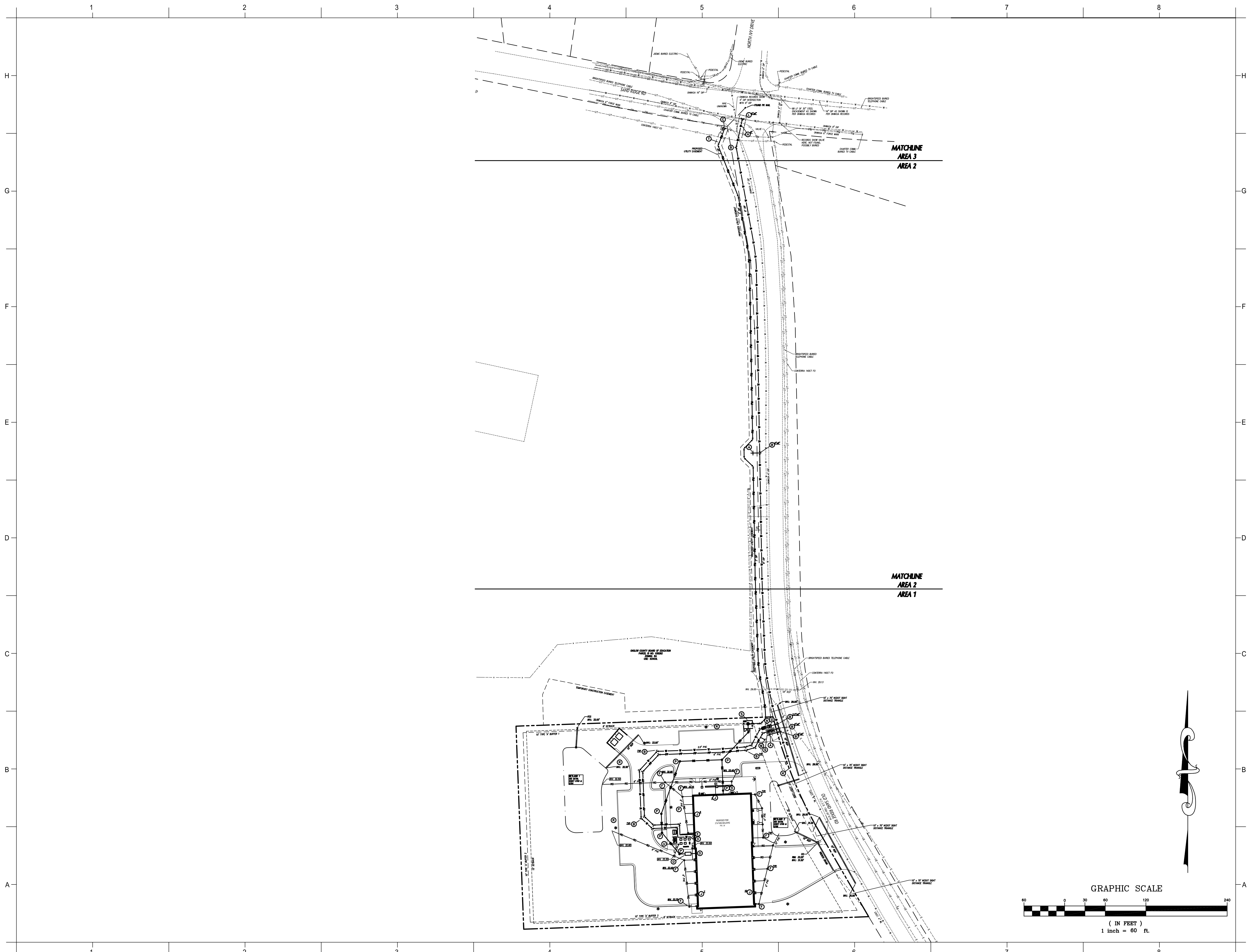
03/12/2025

BID DOCUMENTS

SHEET TITLE

FINAL EROSION CONTROL PLAN

C401



PROJECT INFORMATION

**ONSLAW COUNTY BEAR
CREEK FIRE STATION**
ONSLAW COUNTY

OLD SAND RIDGE RD, HUBERT, NC 28539

SEALS

DKA JOB NUMBER
2324

REVISIONS

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PA: ZP
PM: YA
Drawn By: SL/SH
Plot Date: 03/12/2025

DATE ISSUED

BID DOCUMENTS
03/12/2025

SHEET TITLE
OVERALL UTILITY PLAN

C500

MATCHLINE
AREA 2
AREA 1

UTILITY LEGEND

EXISTING	PROPOSED
CHILLED WATER	CW
ELECTRICAL (OVERHEAD)	E
ELECTRICAL (UNDERGROUND)	UE
FOUNDATION DRAIN	FD
GAS	G
SANITARY SEWER	SS
TELEPHONE (OVERHEAD)	T
TELEPHONE (UNDERGROUND)	UT
WATER	W
ROOF DRAIN	RD
FIRE PROTECTION	FP
STORM DRAIN	SD
TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS	
LIGHT POLE	LP
UTILITY POLE	PP
MANHOLE	MH
CLEAN OUT	CO
DROP INLET, CATCH BASIN	DI, CB
FIRE HYDRANT	FH
WATER VALVE	WV
POST INDICATOR VALVE (PIV)	
FIRE DEPARTMENT CONNECTION (FDC)	
THRUST BLOCKING	
SANITARY SEWER STRUCTURE IDENTIFICATION	

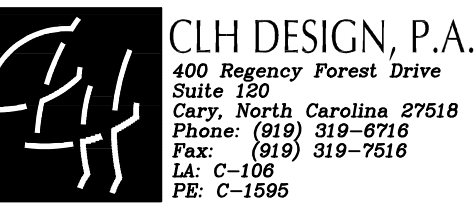
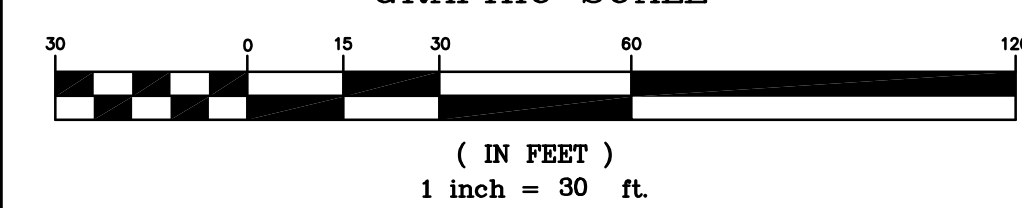
GENERAL NOTES-UTILITY

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCAL AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
- INSTALL WATERMANS WITH A COVER OF NO LESS THAN 3'-FT.
- INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3'-FT TO FINISH GRADE IN NON-TRAFFIC AREAS, 4'-FT TO FINISH GRADE IN TRAFFIC AREAS.
- INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
- WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10'-FT.
- SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 24-IN TO STORM DRAINAGE PIPES.
- COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
- VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
- CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
- SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
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UTILITY KEY NOTES

- (A) FIRE HYDRANT ASSEMBLY WITH GATE VALVE, SEE DETAIL SHEET C901.
- (B) THRUST BLOCKING, TYP, SEE DETAIL SHEET C901.
- (C) 6-IN x 2-IN FORCE MAIN SERVICE SADDLE TAP WITH GATE VALVE AND CHECK VALVE ASSEMBLY PER OHMSA REQUIREMENTS.
- (D) EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION AND INVERTS.
- (E) EXTEND WATER MAIN TO 12-IN ABOVE FINISH FLOOR FOR FIRE PROTECTION/PLUMBING CONNECTION, SEE DETAIL SHEET C902. REFER TO FIRE PROTECTION/PLUMBING PLANS FOR EXACT LOCATION.
- (F) ROOF DRAIN CLEANOUT, SEE DETAIL SHEET C900.
- (G) 2" DOMESTIC WATER METER, SEE DETAIL SHEET C902.
- (H) GATE VALVE AND VALVE BOX, SEE DETAIL SHEET C901.
- (J) DOWNSPOUT CONNECTION, SEE ARCHITECTURE PLANS.
- (K) 2-IN BLOW-OFF ASSEMBLY, SEE DETAIL SHEET C902.
- (L) STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY, SEE DETAIL SHEET C902 AND SPECIFICATIONS.
- (M) FIRE DEPARTMENT CONNECTION, SEE DETAIL SHEET C902.
- (N) 2-IN ZURN-MILKINS MODEL 975X12 REDUCED PRESSURE BACKFLOW ASSEMBLY (RPA) WITHIN HEATED ENCLOSURE. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- (O) OIL/WATER SEPARATOR BY PC, SEE PME PLANS.
- (P) NEW SANITARY SEWER CLEANOUT, TYP, SEE DETAIL SHEET C900.
- (R) 6-IN ZURN-MILKINS MODEL 4750A REDUCED PRESSURE BACKFLOW DETECTOR ASSEMBLY (RPDA) WITHIN HEATED ENCLOSURE. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- (S) 25' TALL LIGHT POLE, SEE DRAWING NUMBER C010 SITE ELECTRICAL.
- (T) PUMP STATION, SEE DETAIL SHEET C903.
- (U) REDUCER.
- (V) IN-LINE DRAIN, SEE DETAIL SHEET C900.

GRAPHIC SCALE



PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY

SEALS

DKA JOB NUMBER

2324

REVISIONS

NO.	DATE	DESCRIPTION

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Plot Date: 03/12/2025

DATE ISSUED

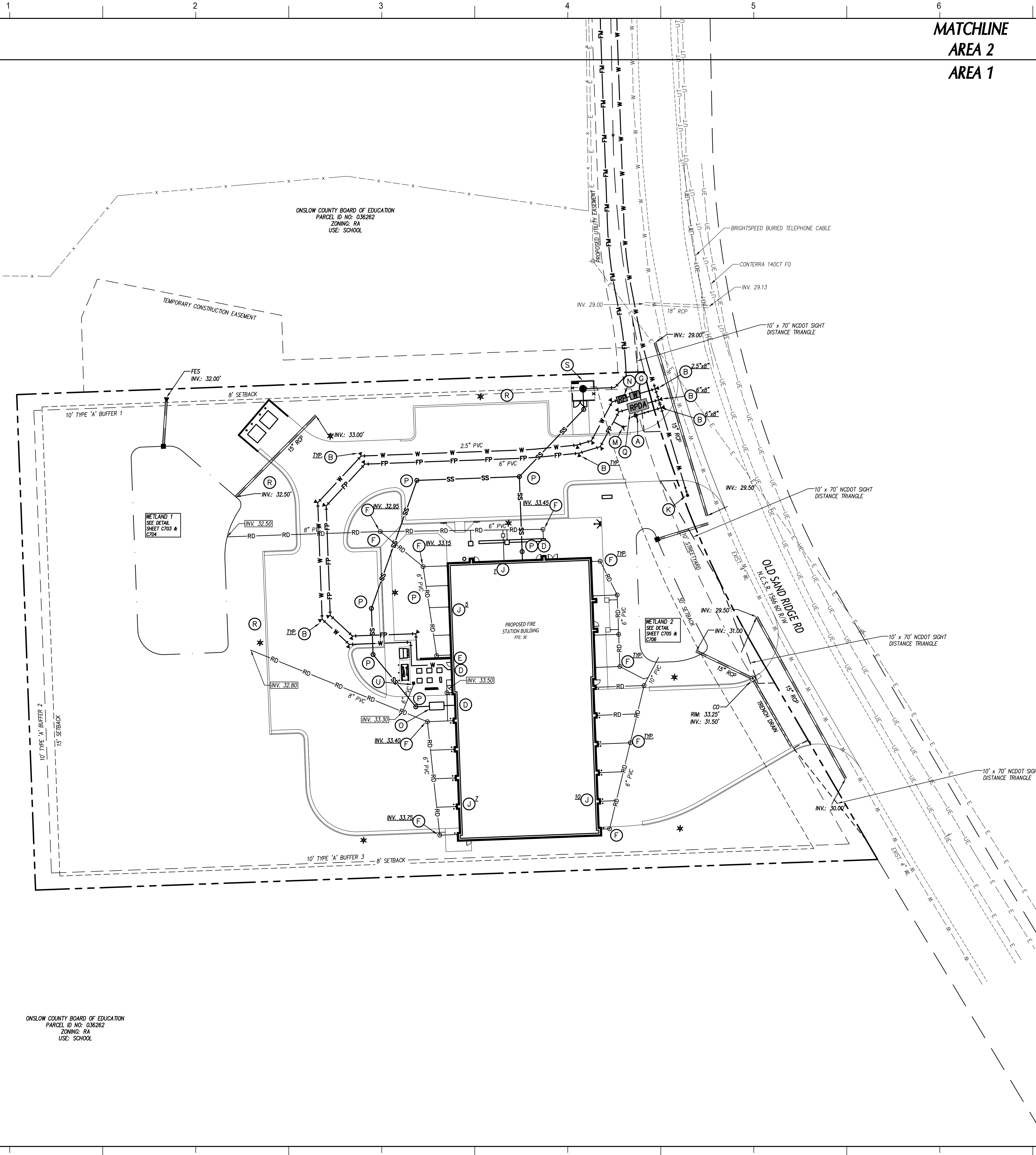
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03/12/2025

SHEET TITLE

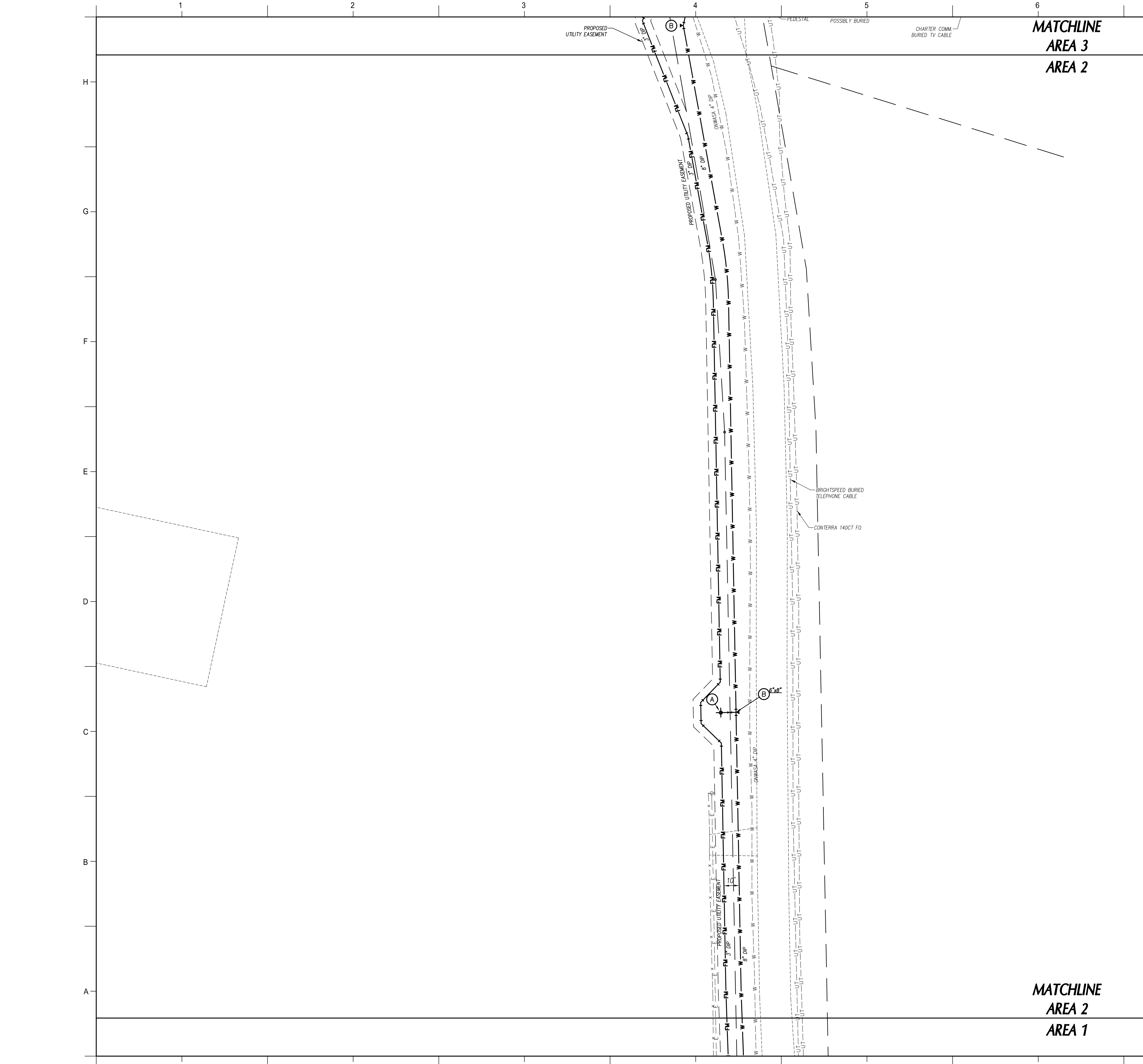
UTILITY PLAN - AREA 1

C501



ONSLOW COUNTY BOARD OF EDUCATION
PARCEL ID NO: 036262
ZONING: RA
USE: SCHOOL

ONSLOW COUNTY BOARD OF EDUCATION
PARCEL ID NO: 036262
ZONING: RA
USE: SCHOOL



UTILITY LEGEND

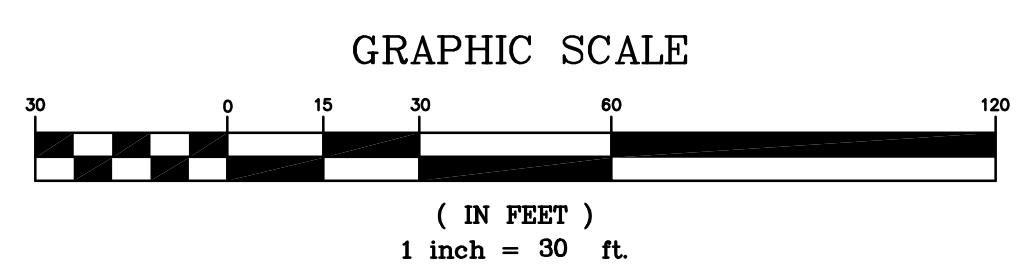
	EXISTING	PROPOSED
CHILLED WATER	----	CW
ELECTRICAL (OVERHEAD)	----	E
ELECTRICAL (UNDERGROUND)	----	UE
FOUNDATION DRAIN	----	FD
GAS	----	G
SANITARY SEWER	----	SS
TELEPHONE (OVERHEAD)	----	T
TELEPHONE (UNDERGROUND)	----	UT
WATER	----	W
ROOF DRAIN	----	RD
FIRE PROTECTION	----	FP
STORM DRAIN	----	SD
TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS		
LIGHT POLE	LP	*
UTILITY POLE	PP	
MANHOLE	MH	●
CLEAN OUT	CO	○
DROP INLET, CATCH BASIN	Di, CB	■
FIRE HYDRANT	FH	+
WATER VALVE	WV	•
POST INDICATOR VALVE (PIV)		+
FIRE DEPARTMENT CONNECTION (FDC)		+
THRUST BLOCKING		+
SANITARY SEWER STRUCTURE IDENTIFICATION		I

GENERAL NOTES-UTILITY

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- INSTALL WATERMAINS WITH A COVER OF NO LESS THAN 3'-FT.
- INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3'-FT TO FINISH GRADE IN NON-TRAFFIC AREAS, 4'-FT TO FINISH GRADE IN TRAFFIC AREAS.
- INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
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- (G) 2" DOMESTIC WATER METER, SEE DETAIL SHEET C902.
- (H) GATE VALVE AND VALVE BOX, SEE DETAIL SHEET C901.
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- (K) 2-IN BLOW-OFF ASSEMBLY, SEE DETAIL SHEET C902.
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- (O) OIL/WATER SEPARATOR BY PG, SEE PINE PLANS.
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- (T) REDUCER.
- (U) IN-LINE DRAIN, SEE DETAIL SHEET C900.



PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY

OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS

DKA JOB NUMBER
2324

REVISIONS

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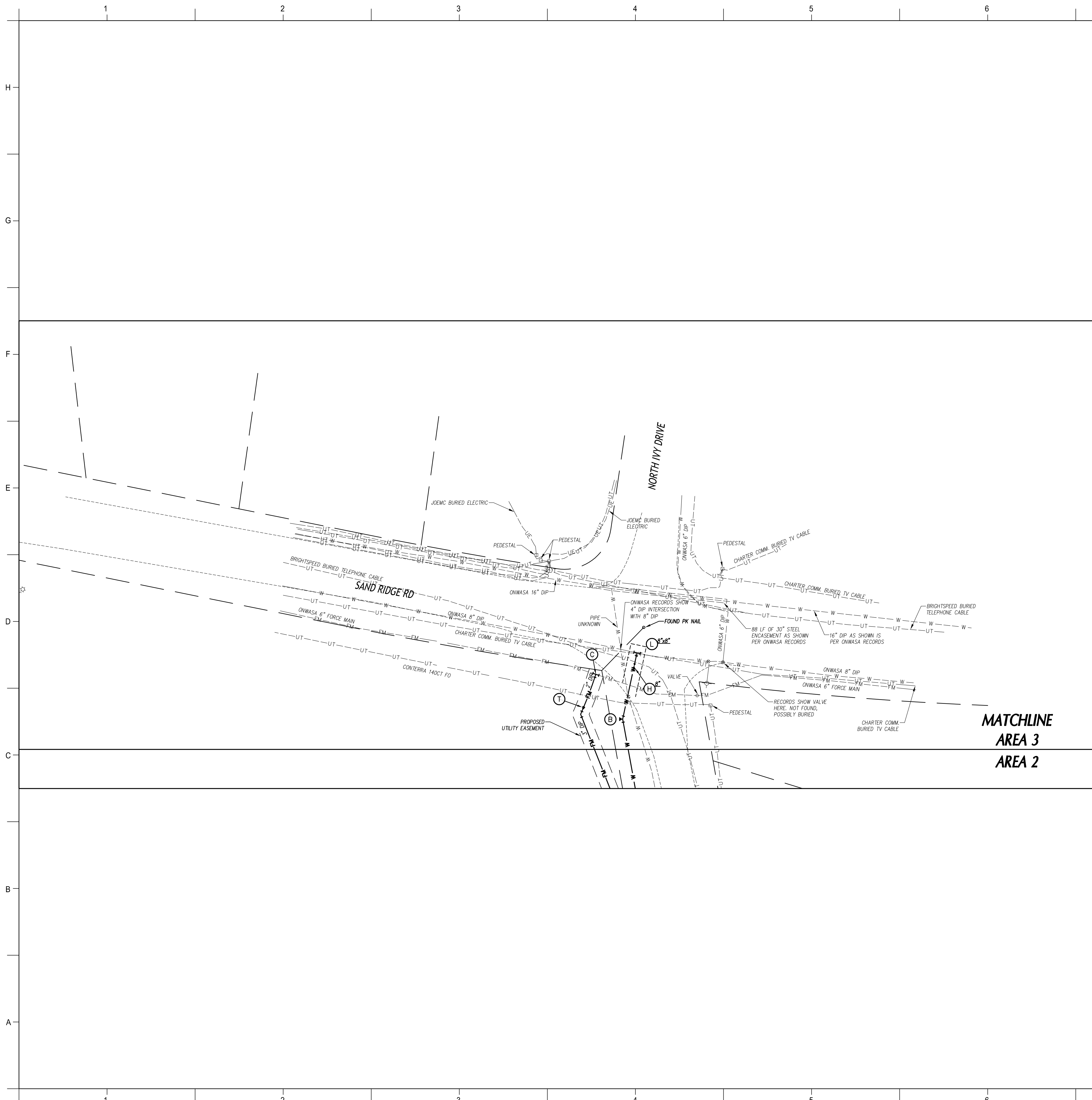
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Plot Date: 03/12/2025

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03/12/2025

SHEET TITLE
UTILITY PLAN - AREA 2

C502



UTILITY LEGEND

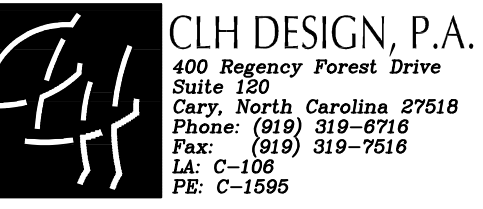
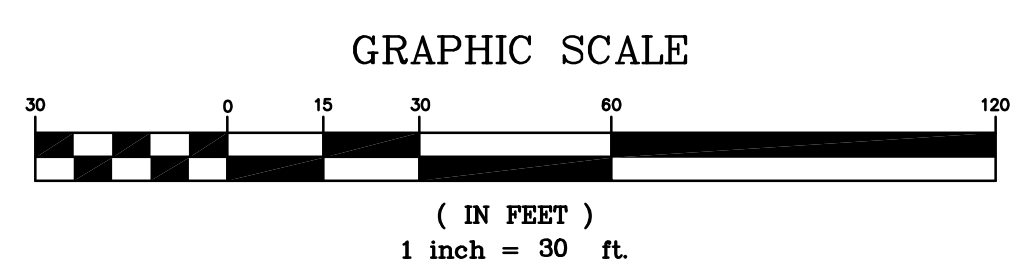
	EXISTING	PROPOSED
CHILLED WATER	-----CW-----	CW
ELECTRICAL (OVERHEAD)	-----E-----	E
ELECTRICAL (UNDERGROUND)	-----UE-----	UE
FOUNDATION DRAIN	-----FD-----	FD
GAS	-----G-----	G
SANITARY SEWER	-----SS-----	SS
TELEPHONE (OVERHEAD)	-----T-----	T
TELEPHONE (UNDERGROUND)	-----UT-----	UT
WATER	-----W-----	W
ROOF DRAIN	-----RD-----	RD
FIRE PROTECTION	-----FP-----	FP
STORM DRAIN	=====	=====
TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS	○ ○	○ ○
LIGHT POLE	☆	☆
UTILITY POLE	PP	PP
MANHOLE	○ MH	●
CLEAN OUT	◎ CO	◎
DROP INLET, CATCH BASIN	□ Di, CB	■
FIRE HYDRANT	⊕ FH	⊕
WATER VALVE	○ WV	⊕
POST INDICATOR VALVE (PIV)	⊕	⊕
FIRE DEPARTMENT CONNECTION (FDC)	⊕	⊕
THRUST BLOCKING	⊕	⊕
SANITARY SEWER STRUCTURE IDENTIFICATION	1	1

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- (P) NEW SANITARY SEWER CLEANOUT, TYP, SEE DETAIL SHEET C900.
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- (T) PUMP STATION, SEE DETAIL SHEET C903.
- (U) REDUCER.
- (V) IN-LINE DRAIN, SEE DETAIL SHEET C900.



PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY

SEALS

DKA JOB NUMBER
2324

REVISIONS

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DATE ISSUED

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03/12/2025

SHEET TITLE
UTILITY PLAN - AREA 3

C503

OLD SAND RIDGE RD, HUBERT, NC 28539

PROJECT INFORMATION

**ONSLOW COUNTY BEAR
CREEK FIRE STATION**
ONSLOW COUNTY

OLD SAND RIDGE RD, HUBERT, NC 28539

SEALS

DKA JOB NUMBER
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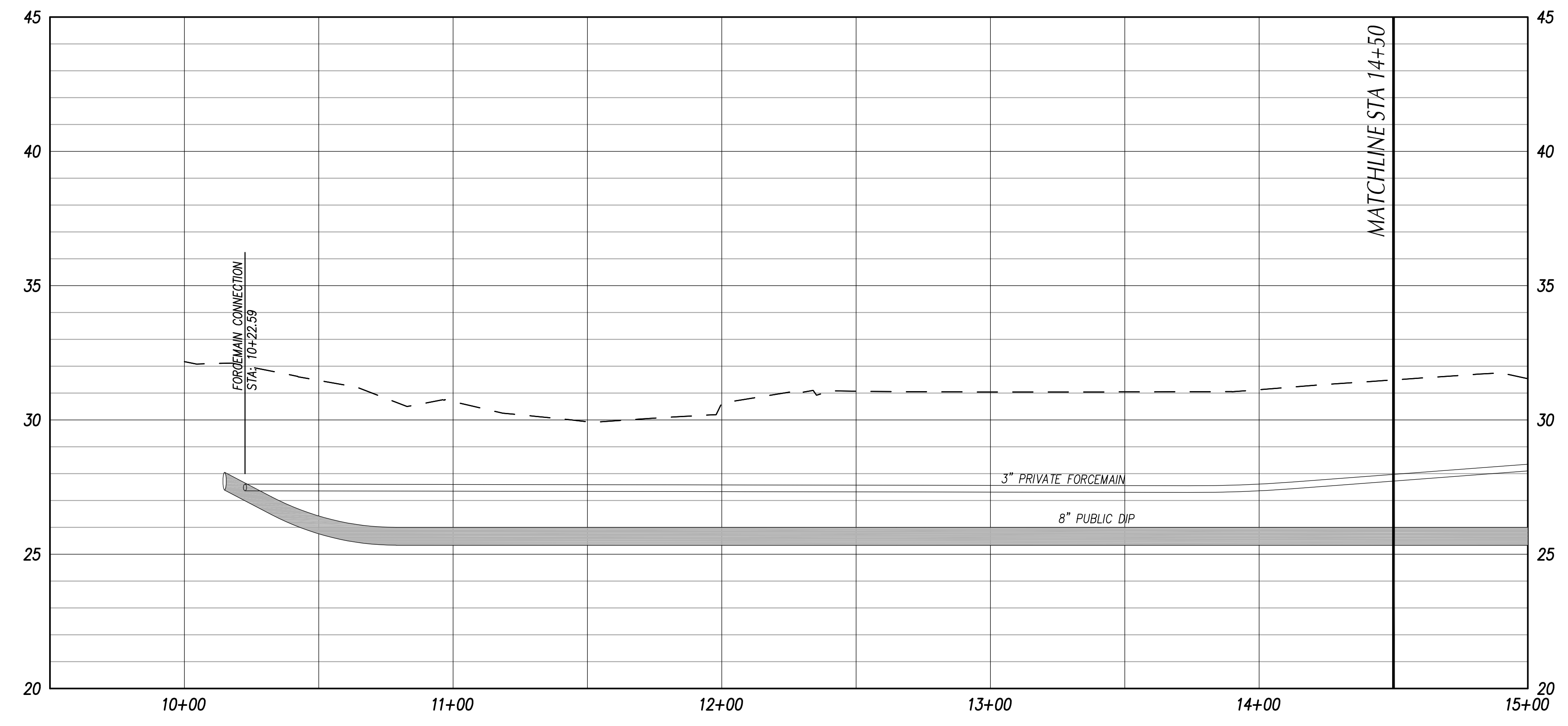
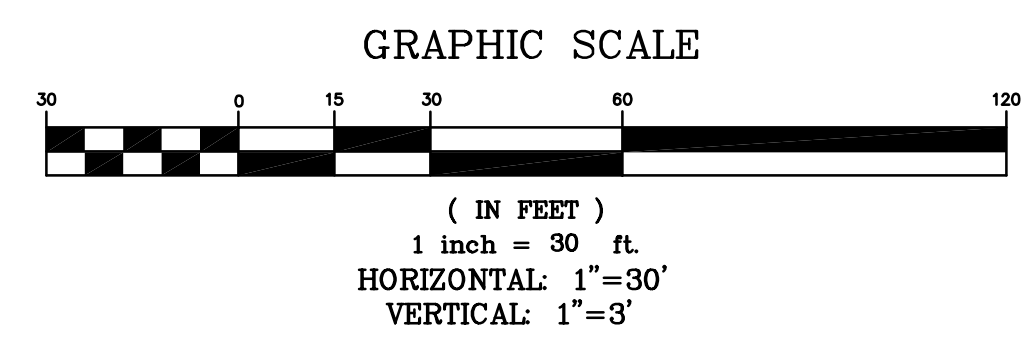
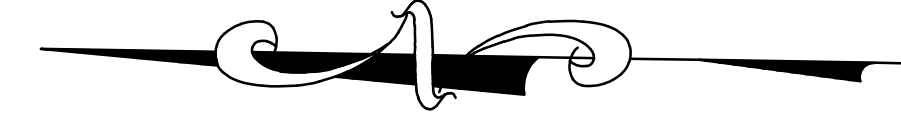
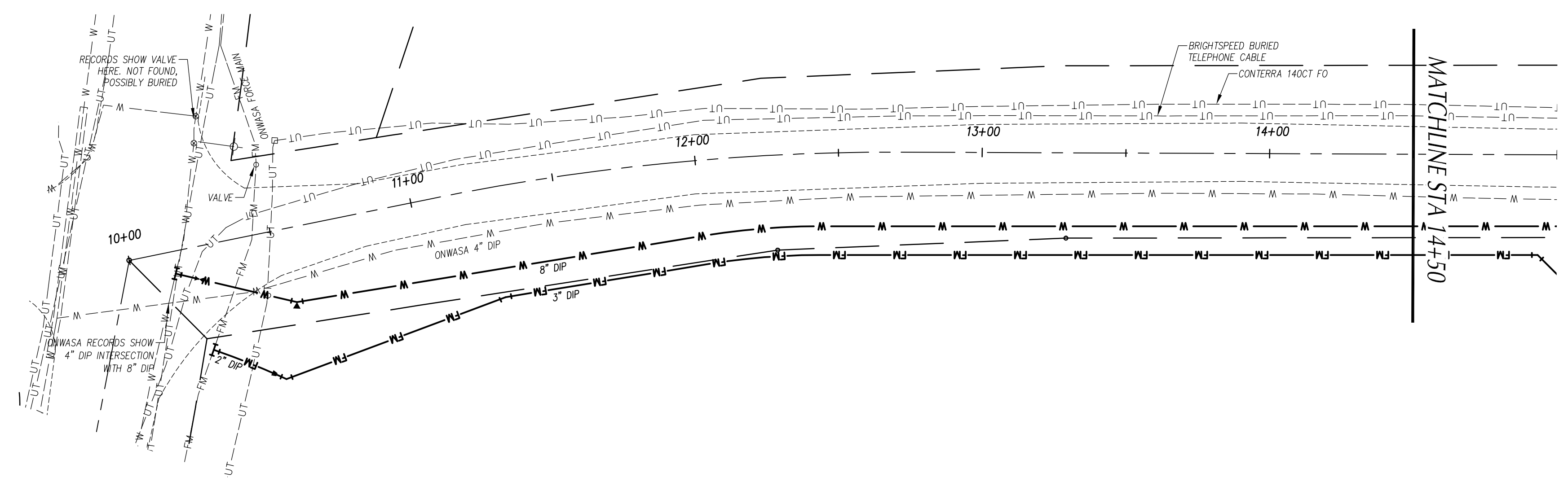
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03/12/2025

SHEET TITLE
FORCEMAIN &
WATERLINE
PLAN AND PROFILE

C504



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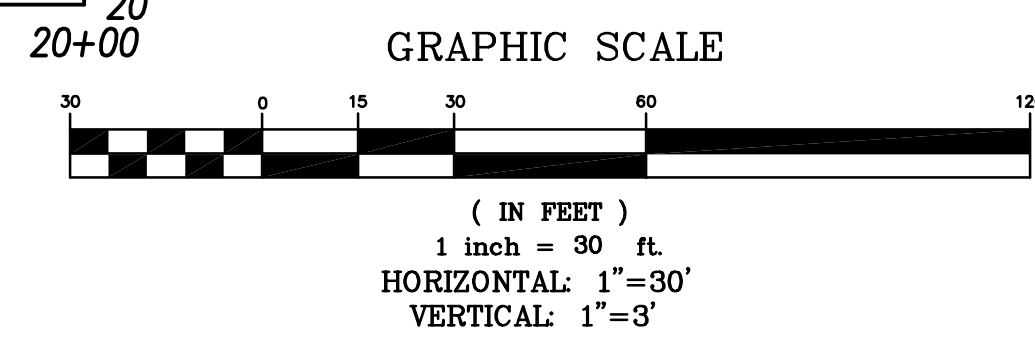
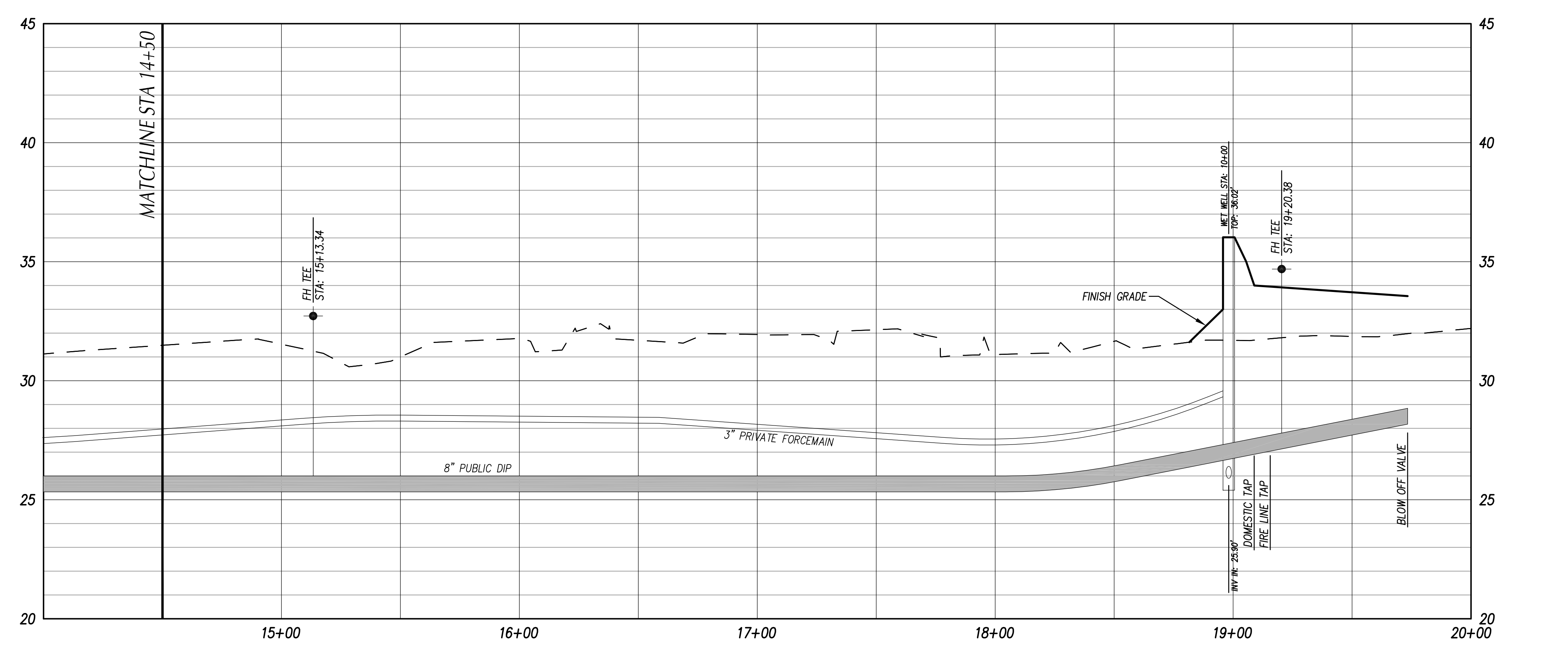
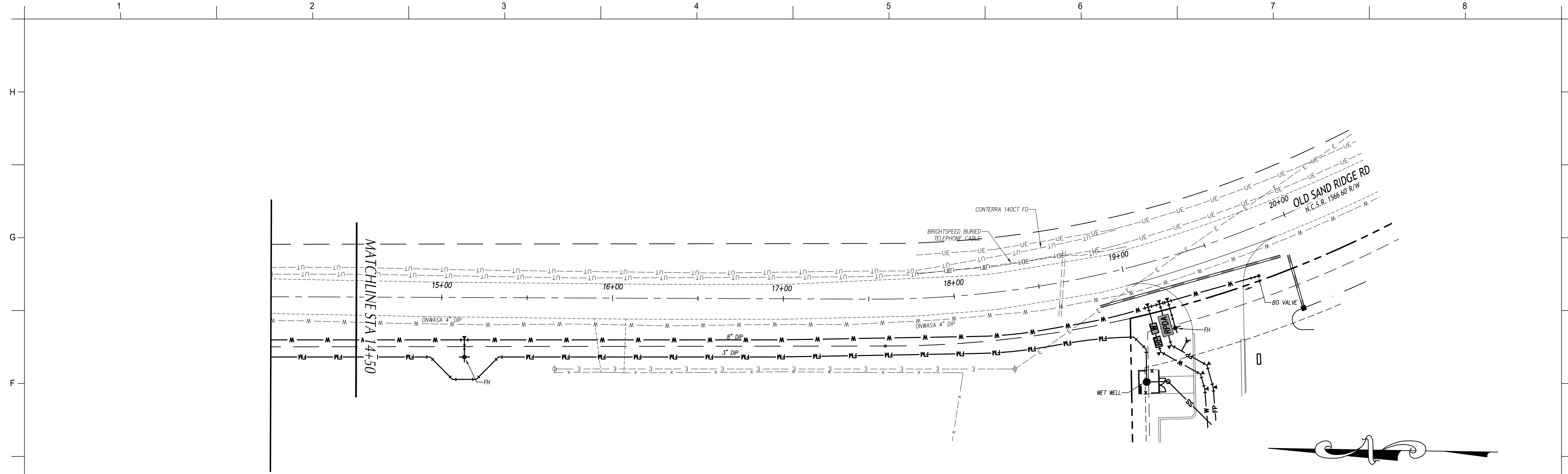
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1 2 3 4 5 6 7 8

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Plot Date: 03/12/2025



1 2 3 4 5 6 7 8

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G

F

E

D

C

B

A

MATCHLINE
AREA 2
AREA 1

GENERAL NOTES-LANDSCAPING

- LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
- VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLAN LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
- ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE WRITTEN SPECIFICATIONS.
- ALL PLANT MATERIAL (SHRUBS/TREES) SHALL BE A MINIMUM DISTANCE OF 4-1/2 FEET FROM BACK OF CURB, EXCEPT ALONG ANY NEW WALLS ADJACENT TO PARKING WHERE CURB STOPS WILL BE USED.
- ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. 3-IN DEPTH OF TRIPLE SHREDDED HARDWOOD MULCH SHALL BE USED AROUND ALL PLANTINGS, CONFIRM WITH LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
- ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
- DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS, (I.E. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS). SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
- CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
 - REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION.
 - REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
 - ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
 - ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
- THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
- LANDSCAPE SUB-CONTRACTOR (UNDER GO CONTRACT) SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AND LAWN/SOD AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL COMPLETION. PLANT MATERIALS OR AREAS OF GRASS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL WATERING INFORMATION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM SEEDING/SOD AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE RE-GRADED AND RE-SEEDING IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THESE AREAS AT SIX COVERAGE AT FINAL COMPLETION.
- SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
- LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING. IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL SEEDING, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
- GENERAL LAWN AREAS SHALL BE SEEDING WITH RIVERA OR SUNSTAR BERMUDEA SEED. SOD AREAS SHALL BE TIF-TUF BERMUDEA. 55% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SEE PLANTING PLAN FOR LIMITS.
- ALL 3:1 SLOPES OR GREATER SHALL RECEIVE EROSION CONTROL MATTING. REFER TO PLANTING PLANS FOR STABILIZATION REQUIREMENTS.
- ALL FOUNDATION SHRUBS TO BE PLANTED A MINIMUM OF 5-FT FROM BUILDING WALL. ALL SHADE TREES SHALL BE A MINIMUM DISTANCE OF 15-FT FROM BUILDING ROOF EDGE TO CENTER OF TREE. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
- INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. SEE EROSION CONTROL PLANS AND PERMANENT SEEDING SCHEDULE FOR ADDITIONAL INFORMATION.

PLANT SCHEDULE

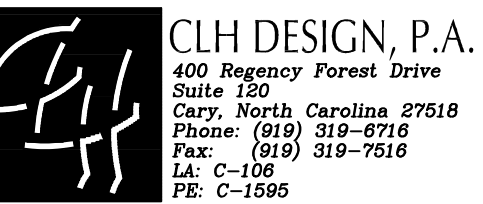
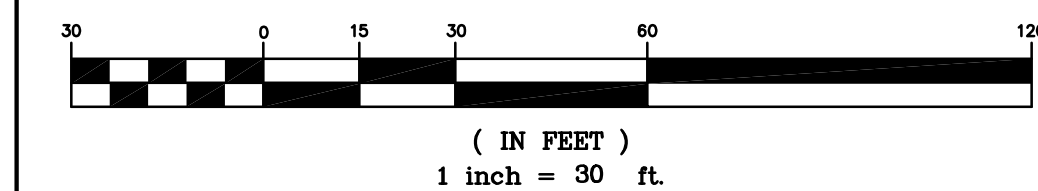
CODE	QTY	BOTANICAL / COMMON NAME	CONT.	CAL.	SIZE	
TREES						
AF	3	Acer floridanum Southern Sugar Maple	CONT.	2.5" MIN.	8' HT. MIN.	
LW	26	Lagerstroemia indica x fauriei "Natches"	CONT.	1.5" MIN.	6' HT. MIN.	
NS	6	Nyssa sylvatica Myrtle Multi-Trunk Tupelo	CONT.	2.5" MIN.	8' HT. MIN.	
PT	13	Pinus taeda Loblolly Pine	CONT.	2" MIN.	8' HT. MIN.	
QP	17	Quercus palustris Pin Oak	CONT.	2.5" MIN.	8' HT. MIN.	
QP2	1	Quercus phellos Willow Oak	CONT.	2.5" MIN.	12" HT. MIN.	
QV	2	Quercus virginiana Southern Live Oak	CONT.	2.5" MIN.	8' HT. MIN.	
CODE	QTY	BOTANICAL / COMMON NAME	CONT.		SIZE	
SHRUBS						
AC	6	Azalea x "Conlec" Autumn Royal [®] Encore [®] Azalea	CONT.		36" MIN.	
HR	4	Hydrangea quercifolia "Ruby Slippers" "Ruby Slippers"	CONT.		36" HT. MIN.	
ID	6	Ilex vomitoria "Schilling Dwarf" Schilling Dwarf Yaupon Holly	CONT.		18"-24" HT.	
JV	13	Juniperus virginiana "Grey Owl" Grey Owl Eastern Redcedar	CONT.		18"-24" HT.	
MC	76	Myrica caroliniana Wax Myrtle	CONT.		36" HT. MIN.	
PC	4	Prunus caroliniana "Manus" Bright 'N' Tight Carolina Cherry Laurel	CONT.		36" HT. MIN.	
SM	1	Sabal minor Dwarf Palmetto	CONT.		24" HT. MIN.	
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	SIZE	SPACING
GROUND COVERS						
GG	15	Gallardia x grandiflora Blanketflower	1 GAL.			24" o.c.

LANDSCAPE REQUIREMENTS

- BUFFER YARD REQUIREMENTS**
- ADJACENT TO PARCEL LAND USE "O-1" (NORTH, WEST, & SOUTH SIDE)
- NO BUFFER REQUIRED
- STREET YARD REQUIREMENTS**
- OLD SAND RIDGE RD.
- 10' WIDE
- 1 CANOPY TREE PER 40 LF
- 190 LF STREET FRONTAGE (328 - 95 LF DRIVEWAY)
- (233/40) 5.82 CANOPY TREES REQUIRED / 6 PROVIDED
- PARKING LOT YARDS**
- 34 PARKING SPACES
 - PLANTING ISLAND EVERY 110 FT
 - 1 CANOPY TREE PER PLANTING ISLAND
- BUFFER YARDS**
- TYPE 'A' BUFFER YARD REQUIRED
- TYPE 'A' BUFFER YARD 1 (UNDISTURBED) 24,75 LF (315.93) PLANTED
- 2 SHADE TREES, 4 ORNAMENTAL TREES, 12 LARGE EVERGREEN SHRUBS
PER 100 LINEAR FEET
- PLANTINGS REQUIRED: 7 SHADE TREES, 13 ORNAMENTAL TREES, 38 SHRUBS
- PLANTINGS PROVIDED: 7 SHADE TREES, 13 ORNAMENTAL TREES, 38 SHRUBS
- TYPE 'A' BUFFER YARD 2 (UNDISTURBED) 300 LF
- EXISTING VEGETATION TO BE UNDISTURBED IN THIS BUFFER
- TYPE 'A' BUFFER YARD 3 (UNDISTURBED) 147.71 LF (PLANTED 311.95) LF
- 2 SHADE TREES, 4 ORNAMENTAL TREES, 12 LARGE EVERGREEN SHRUBS
PER 100 LINEAR FEET
- PLANTINGS REQUIRED: 7 SHADE TREES, 13 ORNAMENTAL TREES, 38 SHRUBS
- PLANTINGS PROVIDED: 7 SHADE TREES, 13 ORNAMENTAL TREES, 38 SHRUBS

REFORESTATION MIX WITH PINE STRAW MULCH, SEE DETAIL SHEET C801

GRAPHIC SCALE

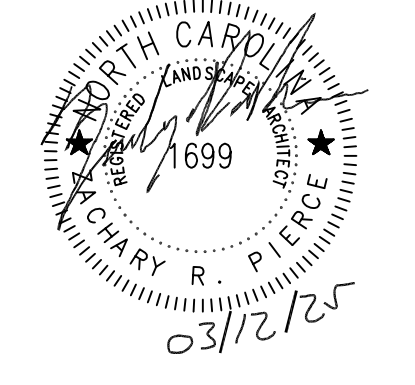


PROJECT INFORMATION

ONSLAW COUNTY BEAR
CREEK FIRE STATION
ONSLAW COUNTY

OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS



DKA JOB NUMBER
2324

REVISIONS

NO.	DESCRIPTION

PA: ZP
PM: YA
Drawn By: SL/SH
Plot Date: 03/12/2025

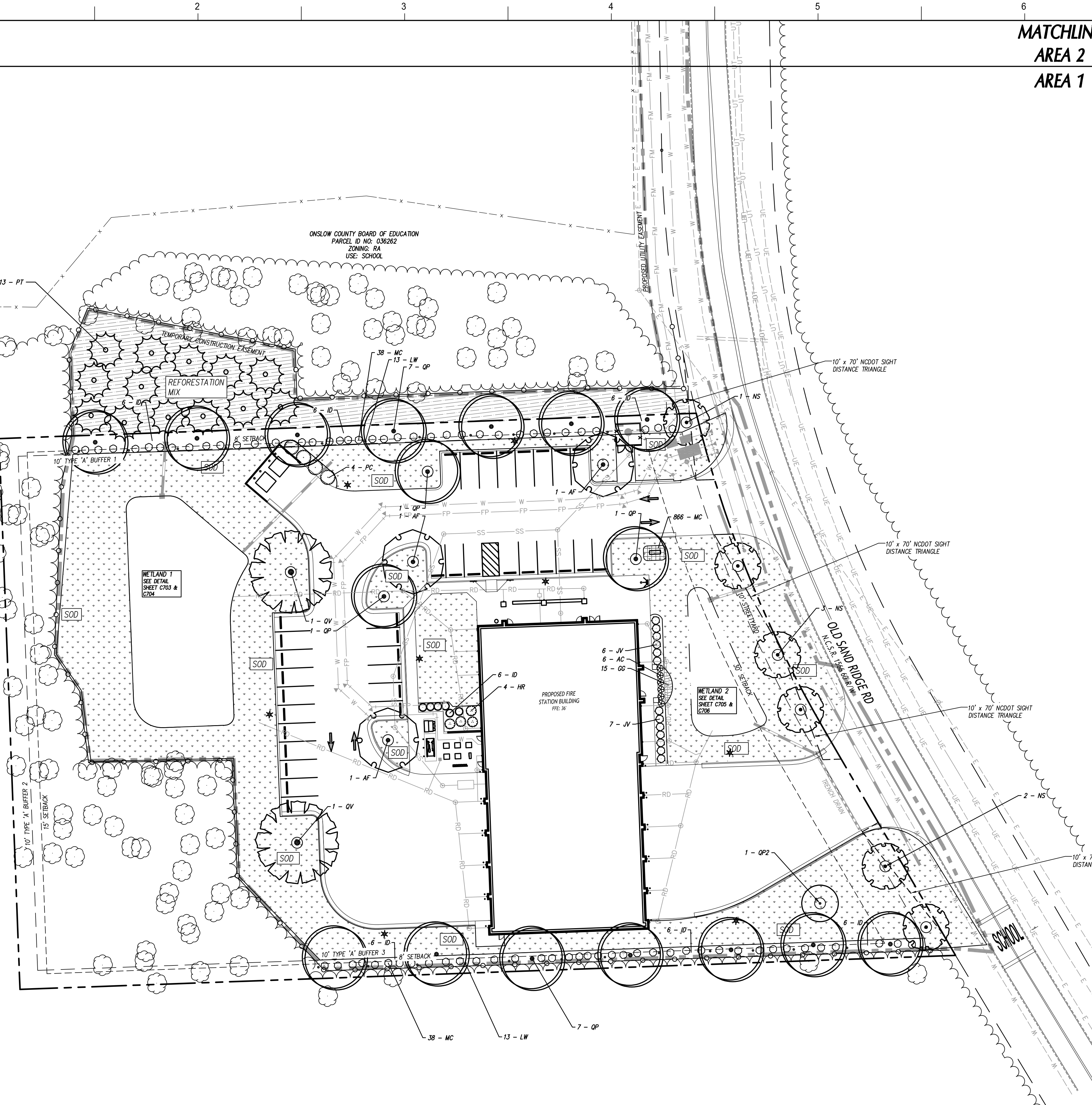
DATE ISSUED

BID DOCUMENTS

03/12/2025

SHEET TITLE
LANDSCAPE PLAN

C600



ONSLAW COUNTY BOARD OF EDUCATION
PARCEL ID NO: 036262
ZONING: RA
USE: SCHOOL

ONSLAW COUNTY BOARD OF EDUCATION
PARCEL ID NO: 036262
ZONING: RA
USE: SCHOOL

PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
 ONSLOW COUNTY

SEALS

DKA JOB NUMBER

2324

REVISIONS

NO.	DATE	DESCRIPTION

DATE ISSUED

03/12/2025

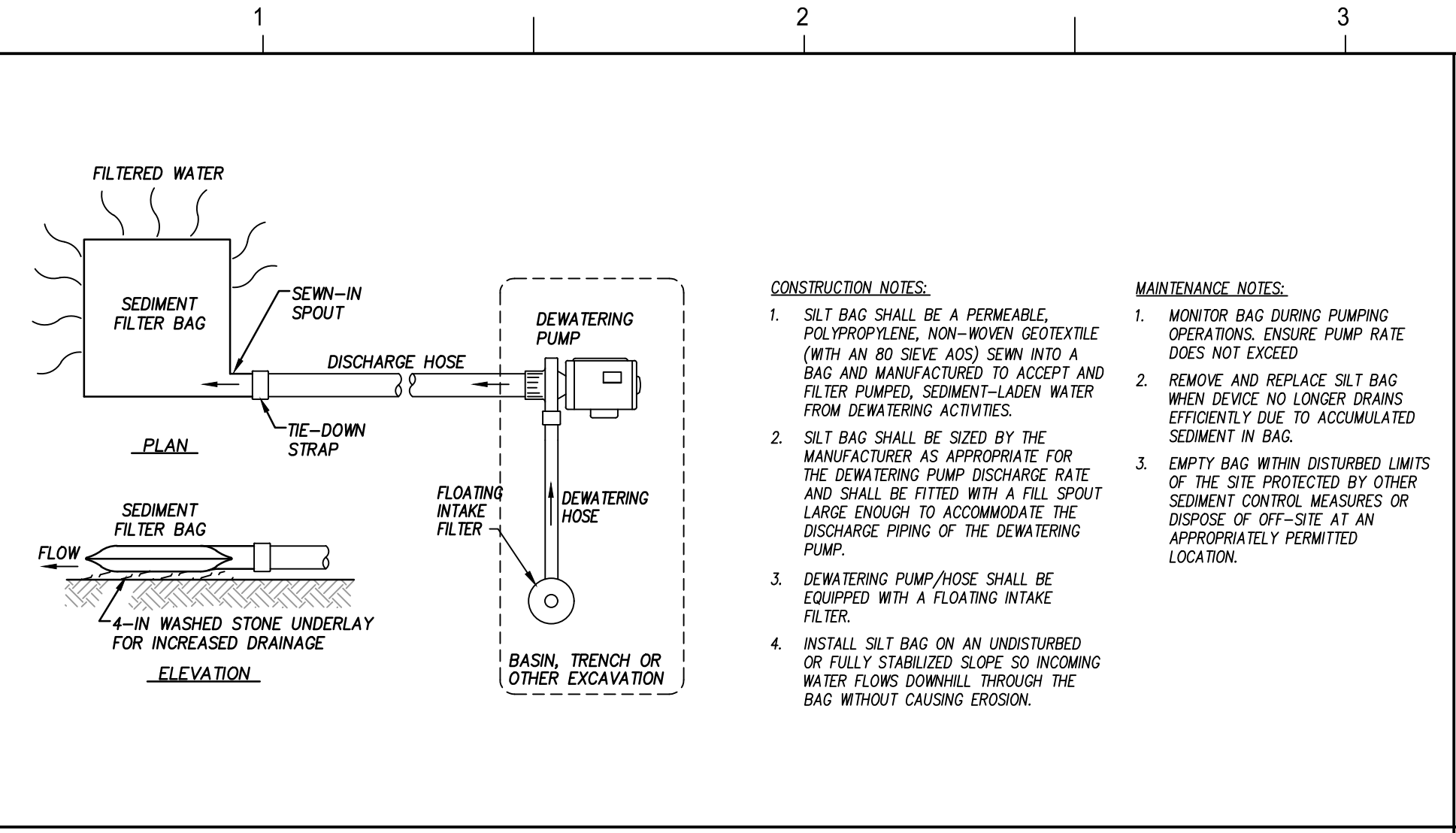
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SHEET TITLE

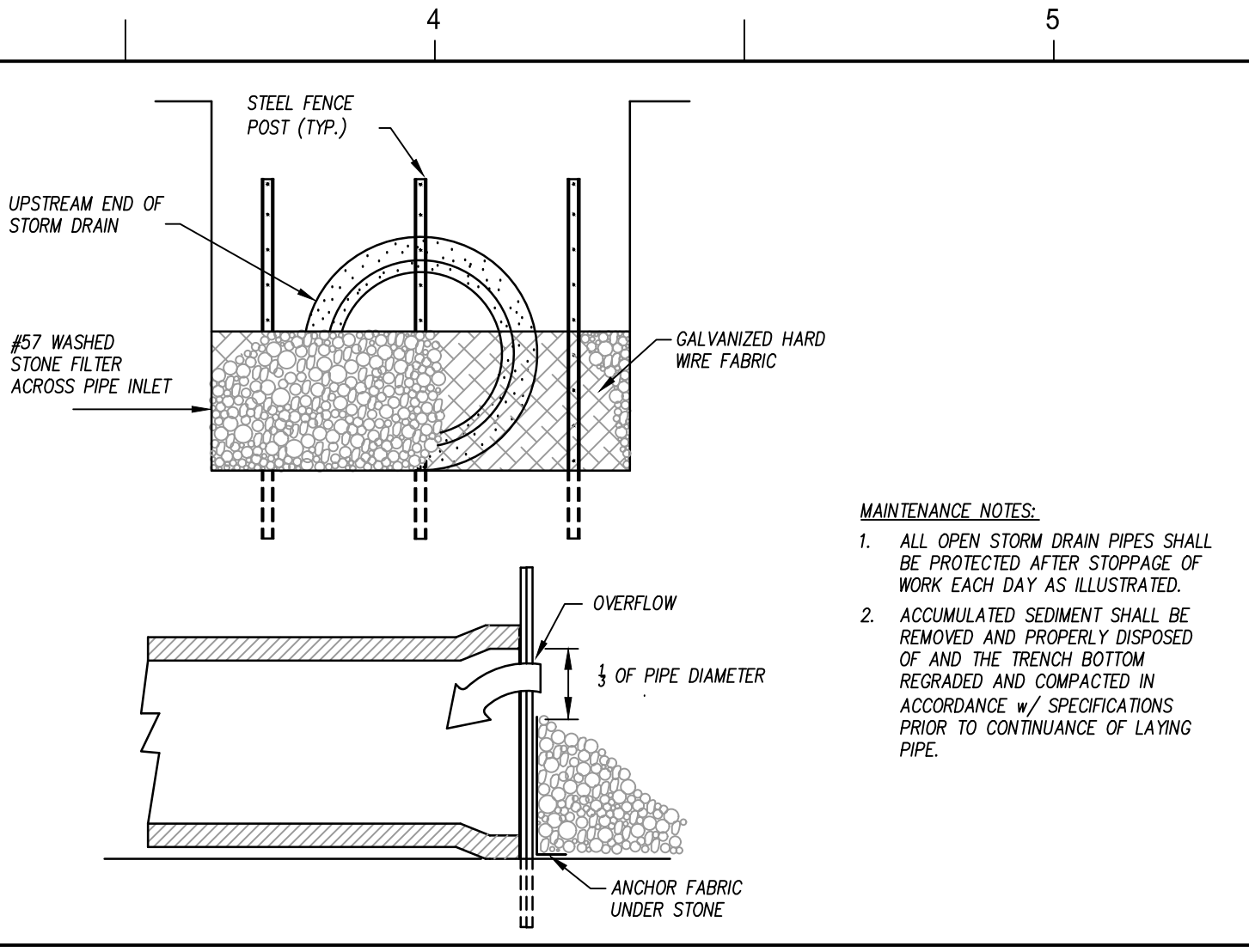
EROSION CONTROL DETAILS

C700

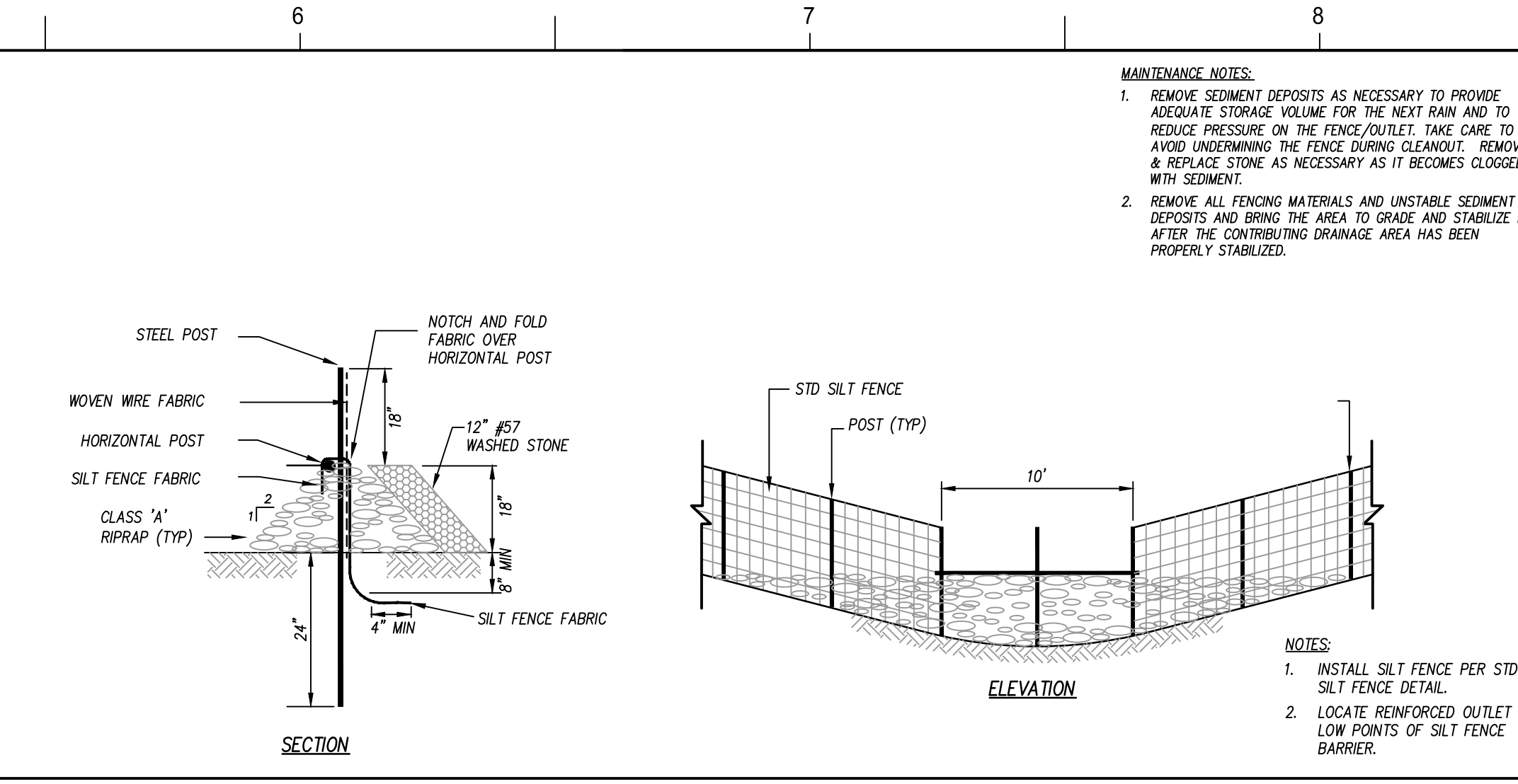
OLD SAND RIDGE RD. HUBERT, NC 28539



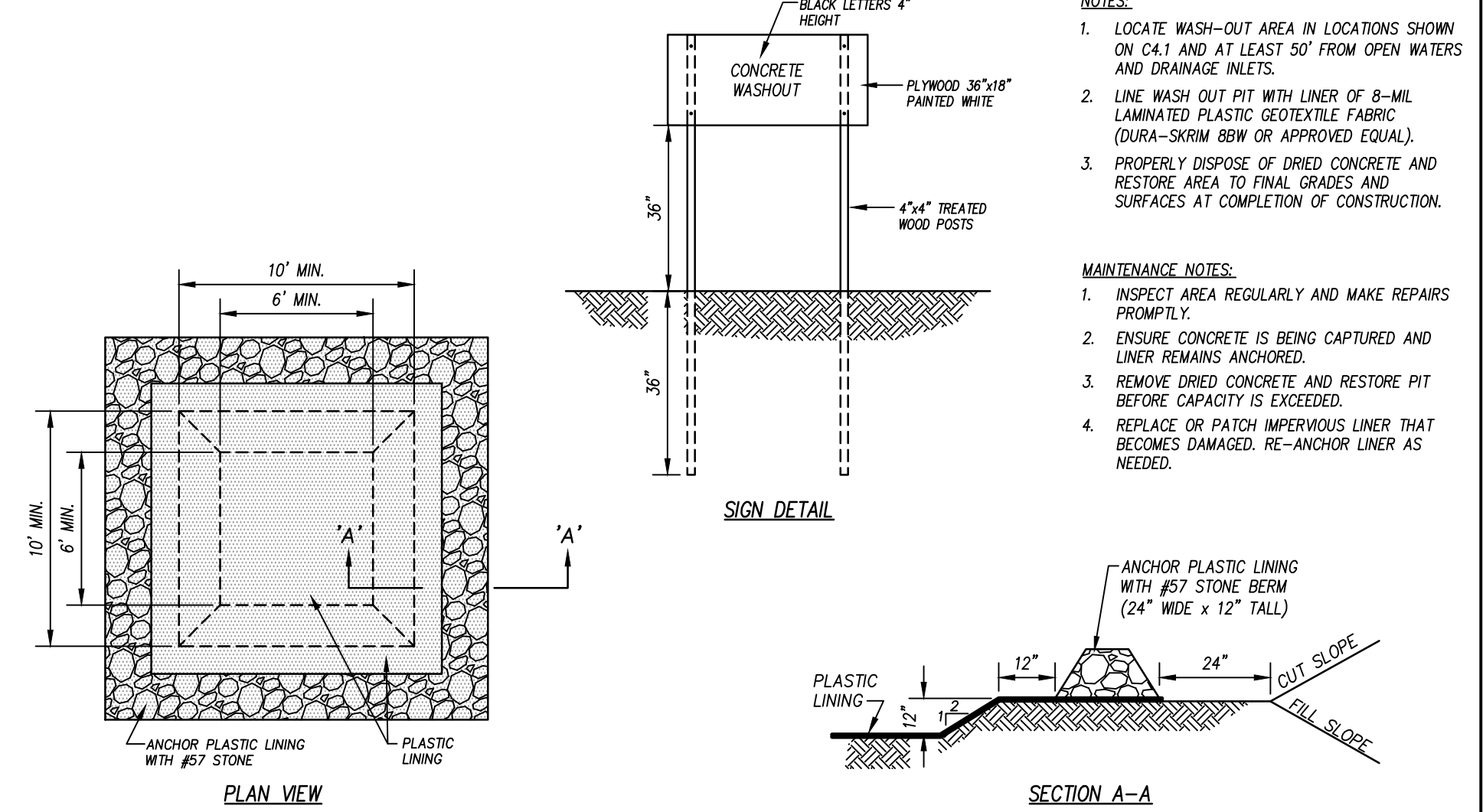
DEWATERING SEDIMENT FILTER BAG N.T.S.



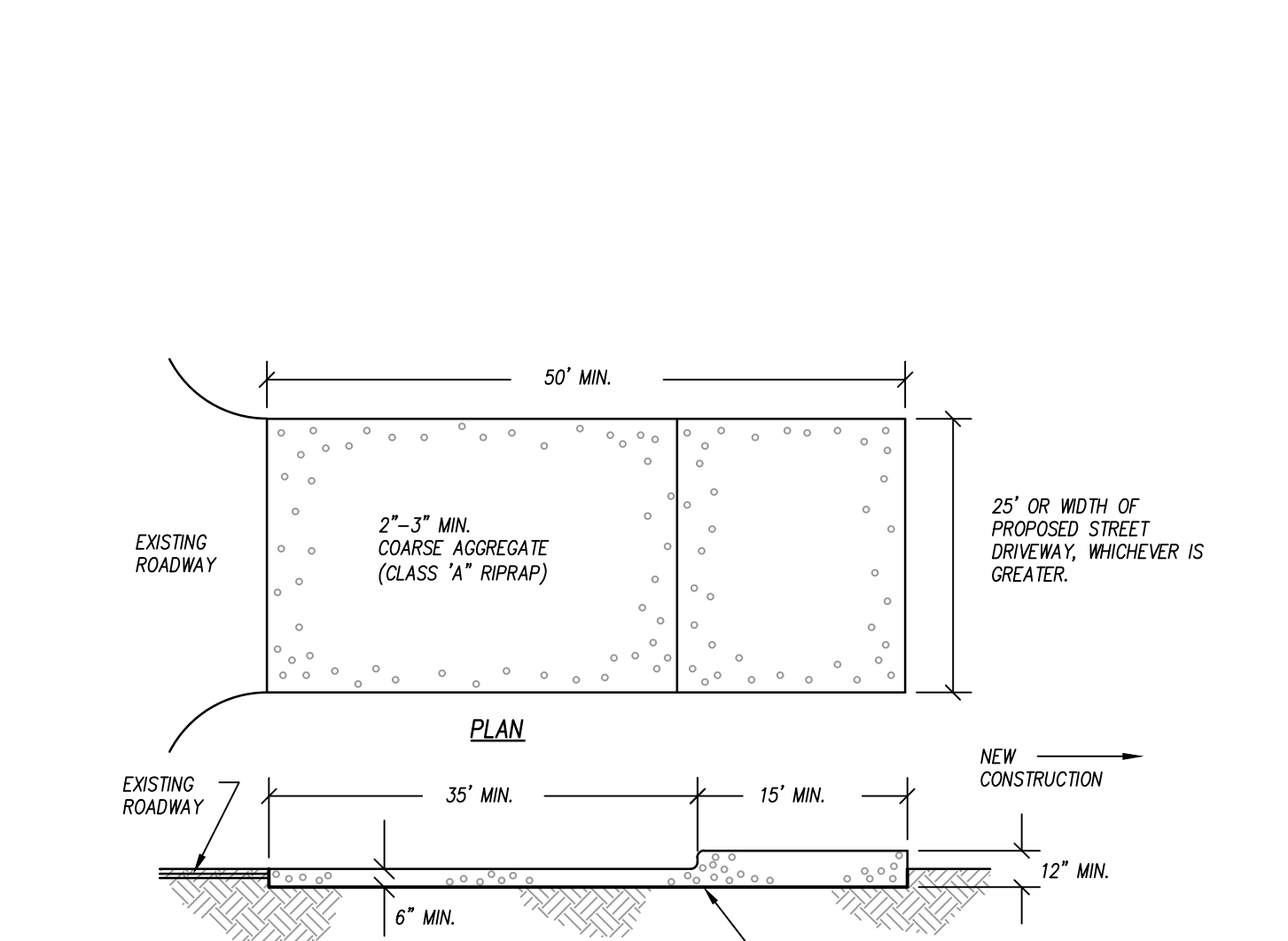
PROTECTION OF STORM DRAIN UNDER CONSTRUCTION N.T.S.



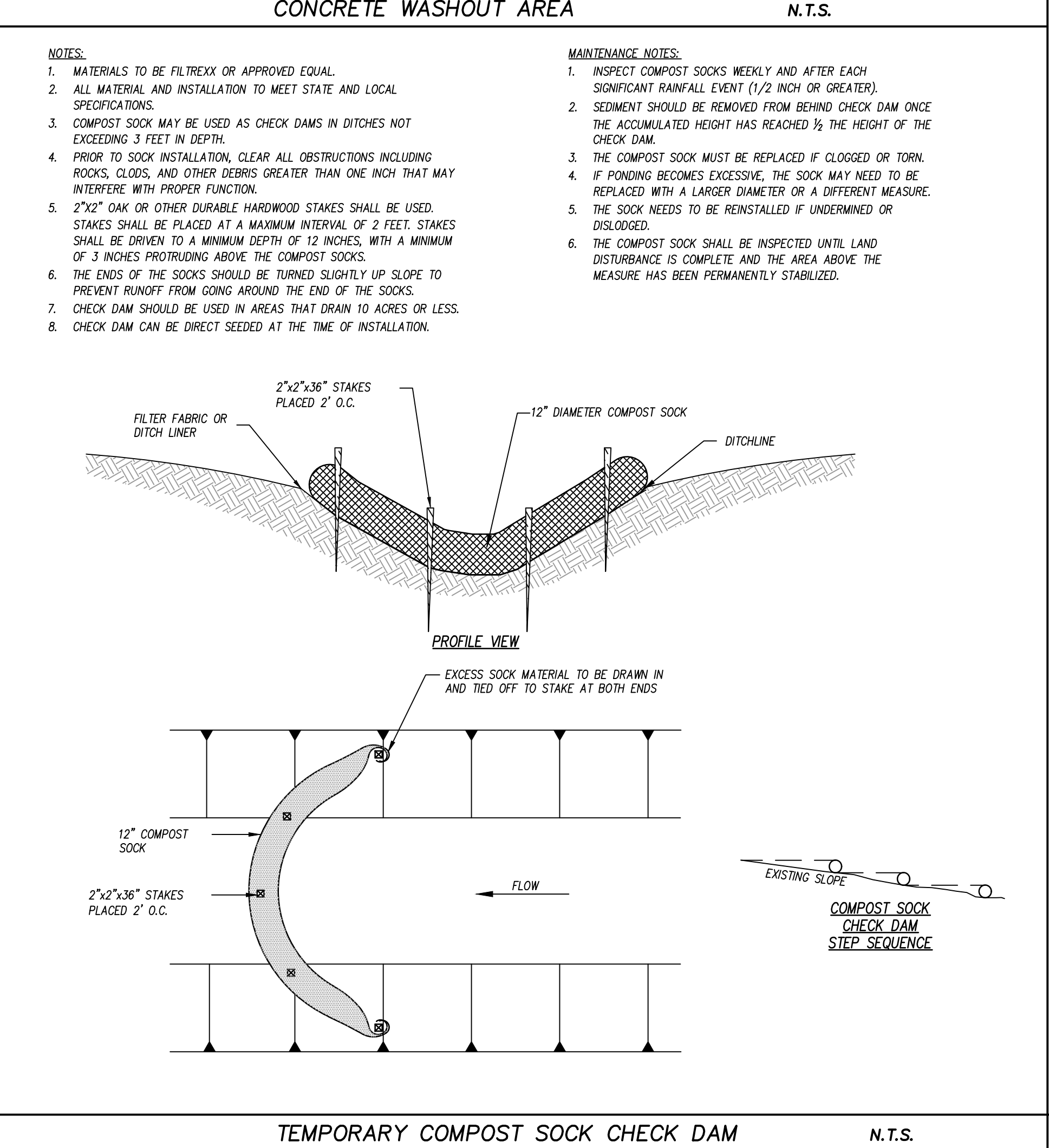
REINFORCED SILT FENCE OUTLET N.T.S.



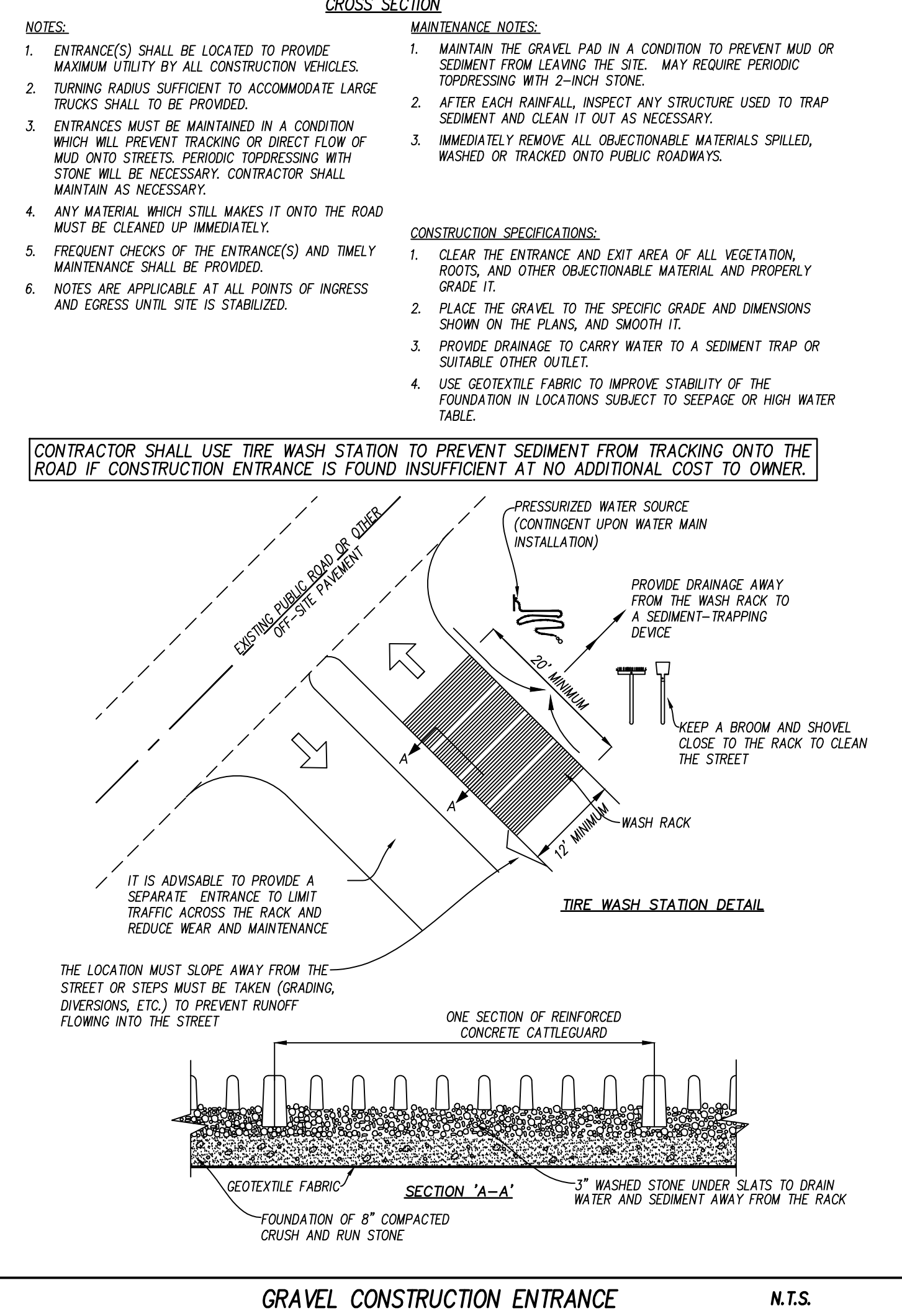
CONCRETE WASHOUT AREA N.T.S.



GRAVEL CONSTRUCTION ENTRANCE N.T.S.



TEMPORARY COMPOST SOCK CHECK DAM N.T.S.



GRAVEL CONSTRUCTION ENTRANCE N.T.S.

Date: _____ Page: _____

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10 feet or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	- 7 days for slopes greater than 50' in length and with slopes steeper than 4:1 - 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones
(e) Areas with slopes flatter than 4:1	14	- 10 days for Falls Lake Watershed - 10 days for Falls Lake Watershed unless there is zero slope

GROUND STABILIZATION SPECIFICATION
 Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below.

Temporary Stabilization	Permanent Stabilization
- Temporary grass seed covered with straw or other mulches and tackifiers	- Permanent grass seed covered with straw or other mulches and tackifiers
- Hydroseeding	- Geotextile fabrics such as permanent soil reinforcement matting
- Rolled erosion control products with or without temporary grass seed	- Hydroseeding
- Appropriately applied straw or other mulch	- Shrub or other permanent plantings covered with mulch
- Plastic sheeting	- Uniform and evenly distributed ground cover sufficient to restrain erosion
	- Structural methods such as concrete, asphalt or retaining walls
	- Rolled erosion control products with grass seed

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG-01 CONSTRUCTION GENERAL PERMIT
 Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG-01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

EARTHEN STOCKPILE MANAGEMENT
 1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
 2. Protect stockpile with silt fence installed along top of slope with a minimum offset of five feet from the toe of stockpile.
 3. Provide stable stone access point when feasible.
 4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

HERBICIDES, PESTICIDES AND RODENTICIDES
 1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
 2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
 3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
 4. Do not stockpile these materials onsite.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS
 1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
 2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
 3. Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
 4. Provide ponding area for containment of treated Stormwater before discharging offsite.
 5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE
 1. Maintain vehicles and equipment to prevent discharge of fluids.
 2. Provide drip pans under any stored equipment.
 3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
 4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
 5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
 6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

NCG-01 GROUND COVER

Date: _____ Page: _____

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT
 Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&S plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&S plan authority has approved these items.
 (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit.
 (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems.
 (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above.
 (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
 (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING SECTION A: SELF-INSPECTION
 Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspector to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record. See Self Inspection Timeframes table to the right for guidelines on frequency of inspections and required aspects of records.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (this will determine if a site inspection is needed), days on which no rainfall occurred shall be recorded as "Zero". The permittee may use another rain-monitoring device approved by the Division.
(2) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected 2. Date and Time of the inspection 3. Name of the person performing the inspection 4. Indication of whether the measures were operating properly 5. Description, Evidence, and date of corrective actions taken
(3) Stormwater outfalls (SOOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected 2. Date and Time of the inspection 3. Name of the person performing the inspection 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration 5. Indication of visible sediment leaving the site 6. Description, Evidence, and date corrective actions taken
(4) Perimeter of Site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible Sedimentation is found outside site limits, then record of the following shall be made: 1) Actions taken to clean up or stabilize sediment that has left the site limits 2) Description, Evidence and date of corrective actions taken 3) An explanation as to the actions taken to control future releases
(5) Streams or wetlands (where applicable)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or has visible increased turbidity from the construction activity, then a record of the following shall be made: 1) Description, Evidence and date of corrective actions taken 2) Records of required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground Stabilization Measures	After each phase of grading	1. The phase of grading (installation of perimeter E&S measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover) 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or assurance that they will be provided as soon as possible

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

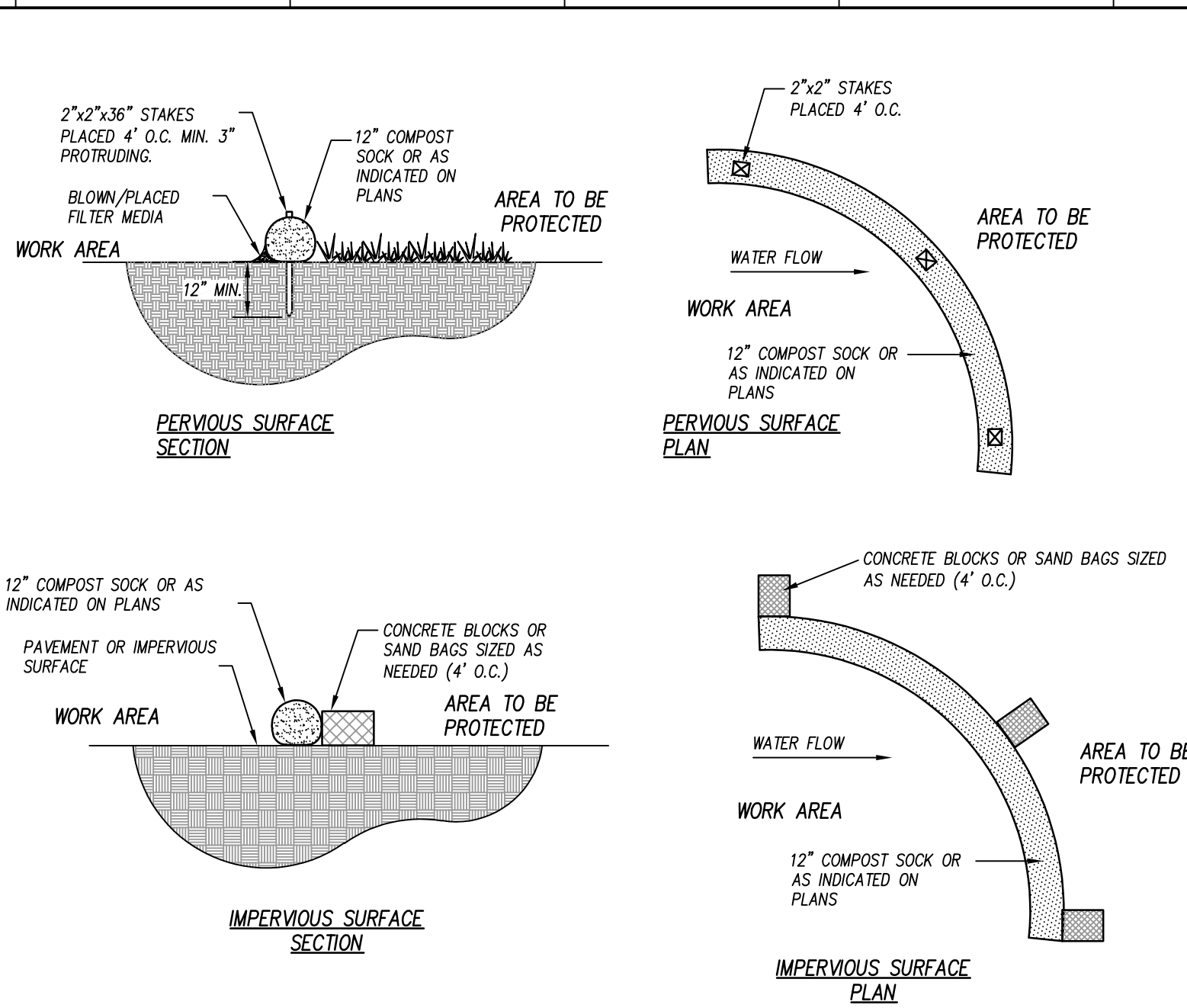
NCG-01 SELF INSPECTION

NOTES:

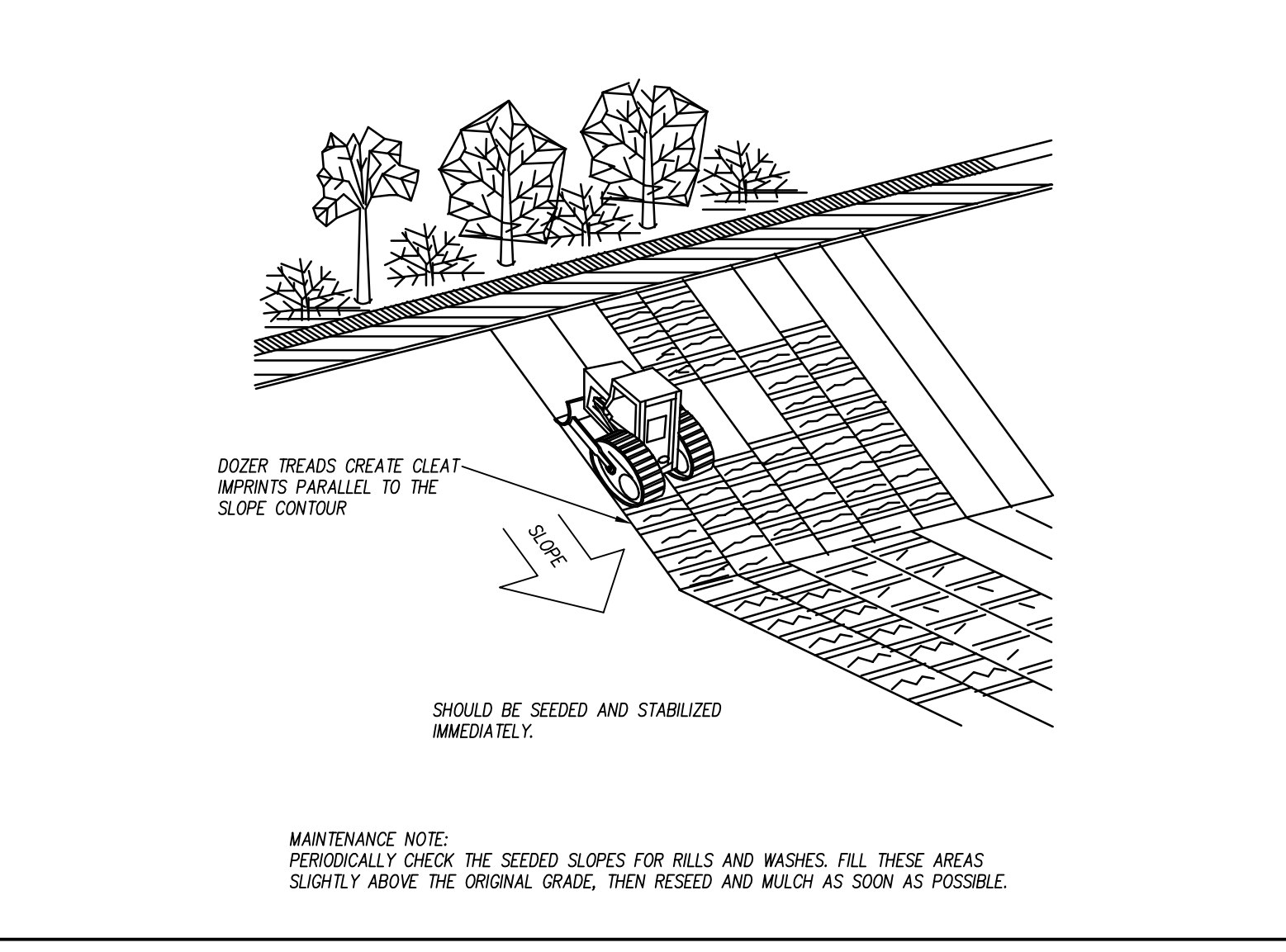
- MATERIALS TO BE FILTREXY OR APPROVED EQUAL.
- ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.
- COMPOST SOCKS SHALL BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREAS, PERPENDICULAR TO SHEET FLOW. COMPOST SOCKS ARE EFFECTIVE IN AREAS WHERE SEDIMENT ACCUMULATION OF LESS THAN SIX INCHES IS EXPECTED.
- COMPOST SOCKS CAN BE APPLIED ON SLOPES UP TO A 2:1 GRADE WITH A MAXIMUM HEIGHT OF 10 FEET. COMPOST SOCK SHOULD NOT BE USED ALONE BELOW GRADED SLOPES GREATER THAN 10 FEET IN HEIGHT.
- 2"x2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACED AT A MAXIMUM INTERVAL OF 4 FEET, OR A MAXIMUM INTERVAL OF 8 FEET IF THE SOCK IS PLACED IN A 4 INCH TRENCH. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.
- COMPOST SOCKS SHALL BE SLEEVED WHEN SECTIONS LONGER THAN 200'-L^F ARE REQUIRED. STAKES SHALL BE PLACED ON SLEEVED AREAS TO KEEP SECTIONS TOGETHER.
- IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS OR SAND BAGS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
- THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
- IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
- THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLOADED.
- THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

MAINTENANCE NOTES:

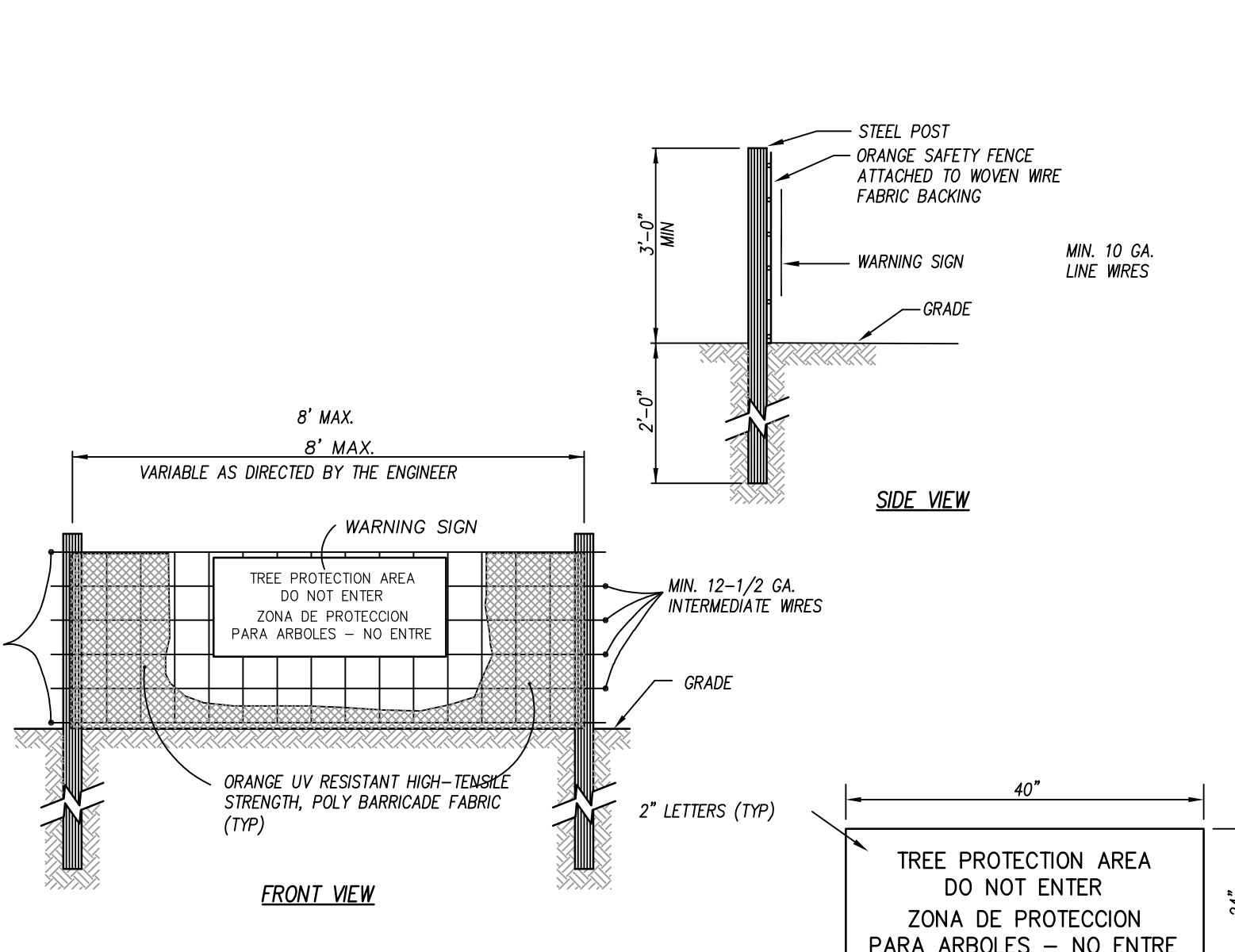
- INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
- SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 1/2 THE HEIGHT OF THE CHECK DAM.
- THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
- IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
- THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLOADED.
- THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.



TEMPORARY COMPOST SOCK PERIMETER FENCE N.T.S.



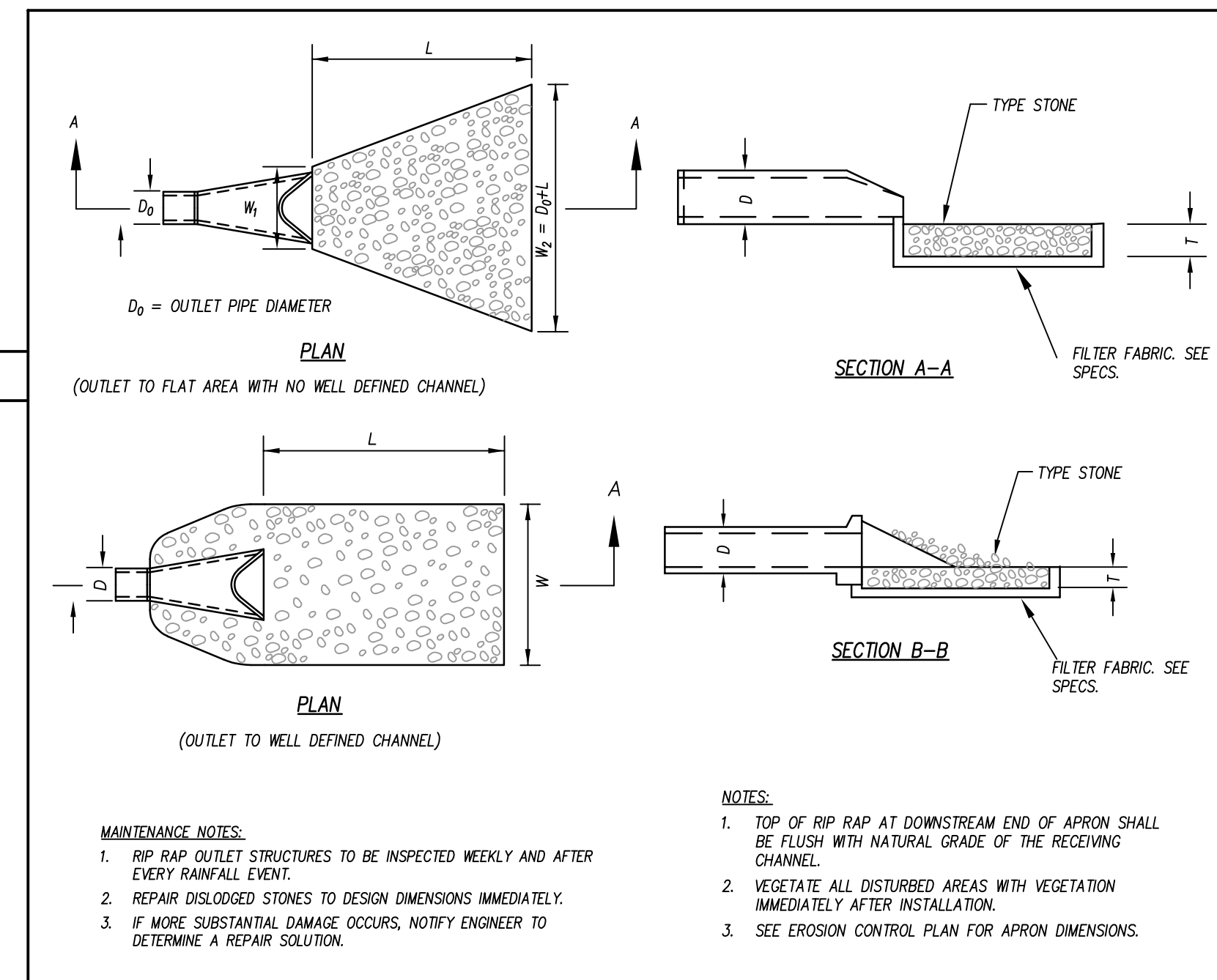
SLOPE TRACKING N.T.S.



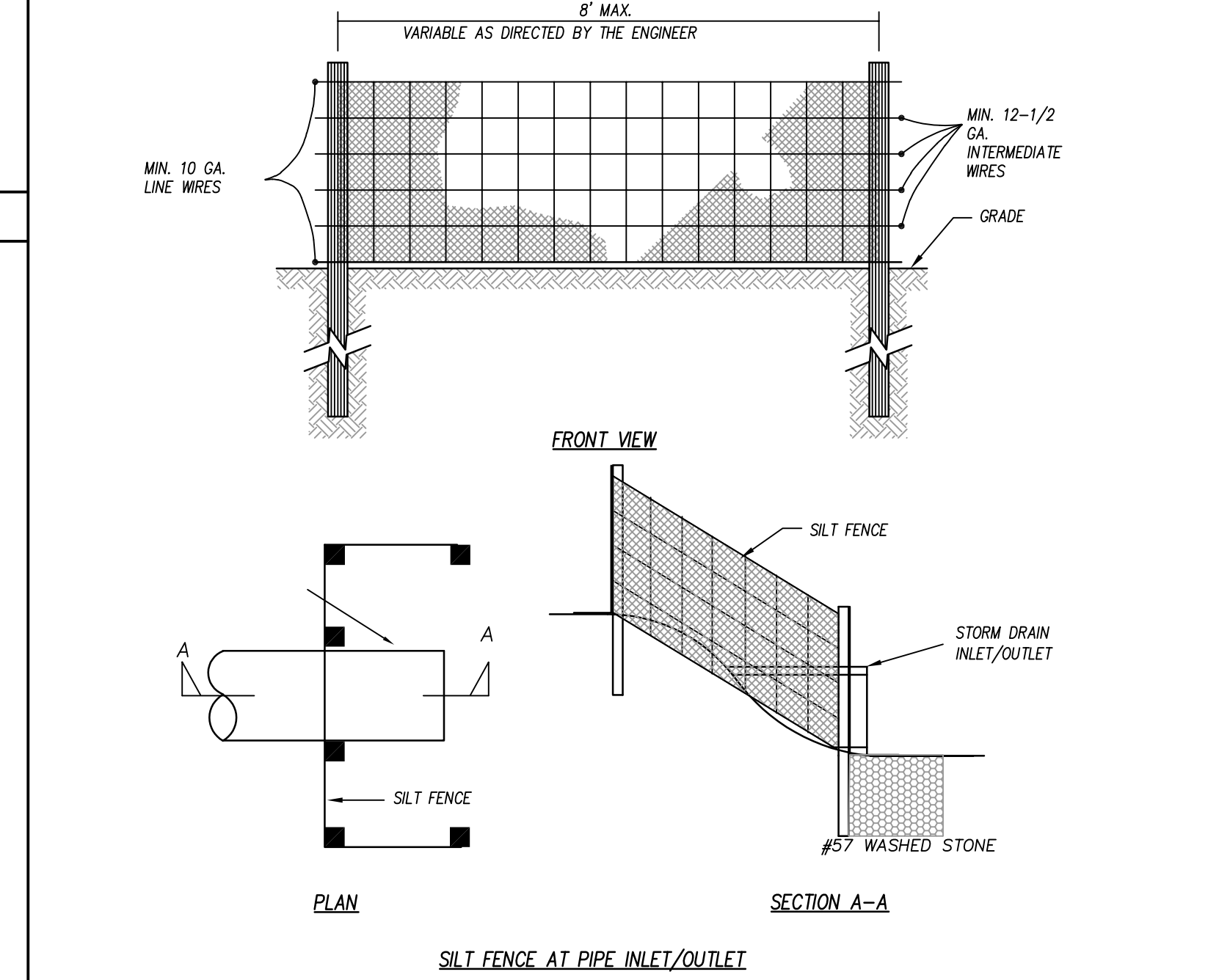
NOTES:

- INSTALL TREE PROTECTION FENCING PRIOR TO PERFORMING ANY CLEARING OF THE SITE.
- WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
- LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
- SIGNS SHALL BE PLACED AT 100' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 100' ON CENTER THEREAFTER.
- FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
- ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
- MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.

TEMPORARY TREE PROTECTION FENCE N.T.S.



OUTLET PROTECTION N.T.S.

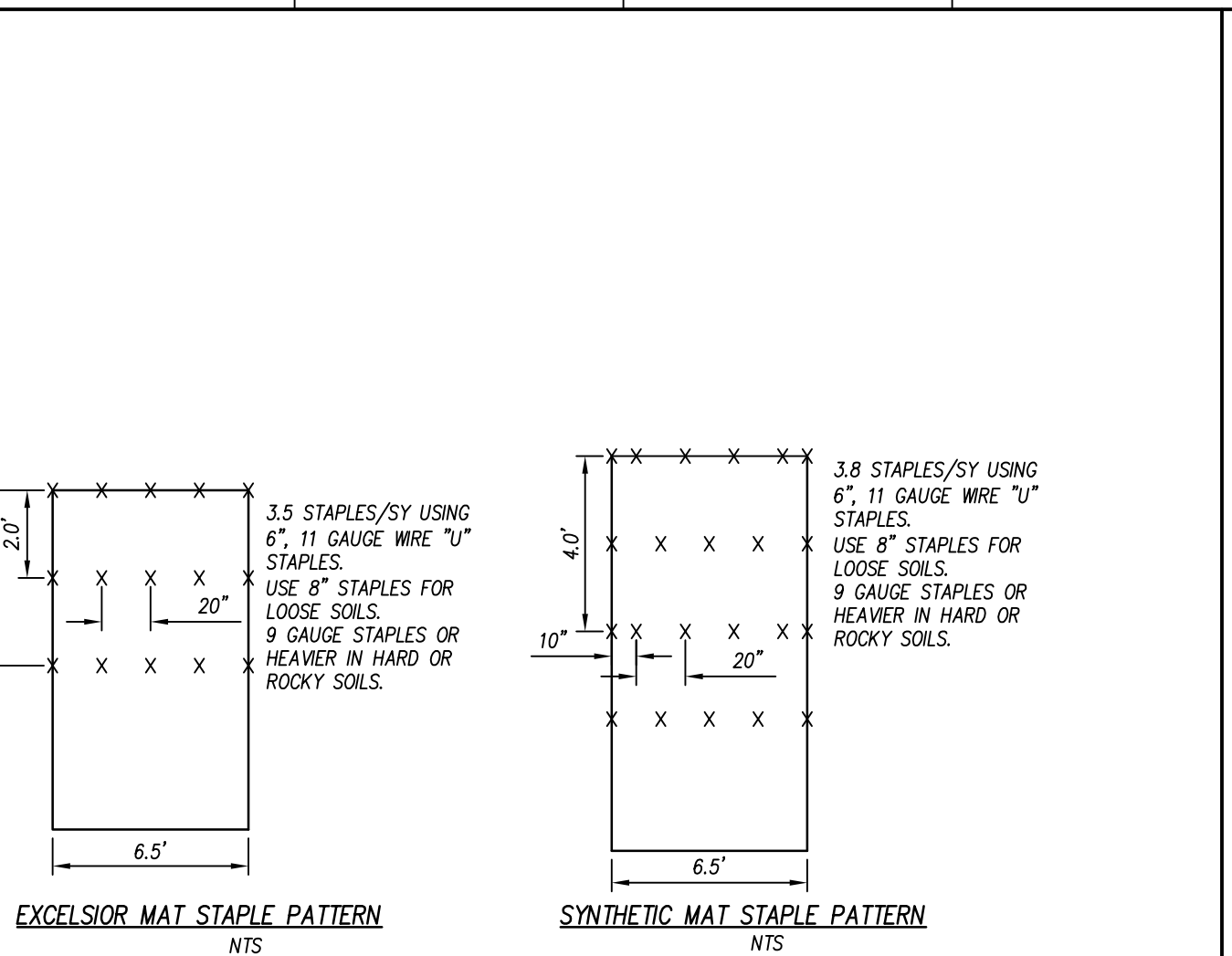


INSTALLATION NOTE:
 USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.

MAINTENANCE NOTES:

- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
- REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- REPAIR SILT FENCE FAILURES WITH NO. 57 WASHED STONE BERM.

STANDARD TEMPORARY SILT FENCE N.T.S.



CHANNEL SCHEDULE

CHANNEL	BOTTOM WIDTH (FT)	SIDE SLOPE (H:V)	CHANNEL GRADE	CHANNEL LENGTH	PERM. LINING	TEMP. LINING	MIN. TOP WIDTH OF LINING (FT)	RRIPRAP DEPTH (IN)
1	4	3:1	0.9%	277 LF	GRASS	SYNTHETIC MAT	10	N/A
2	2	3:1	1.32%	151 LF	GRASS	SYNTHETIC MAT	8	N/A

CONSTRUCTION NOTES:

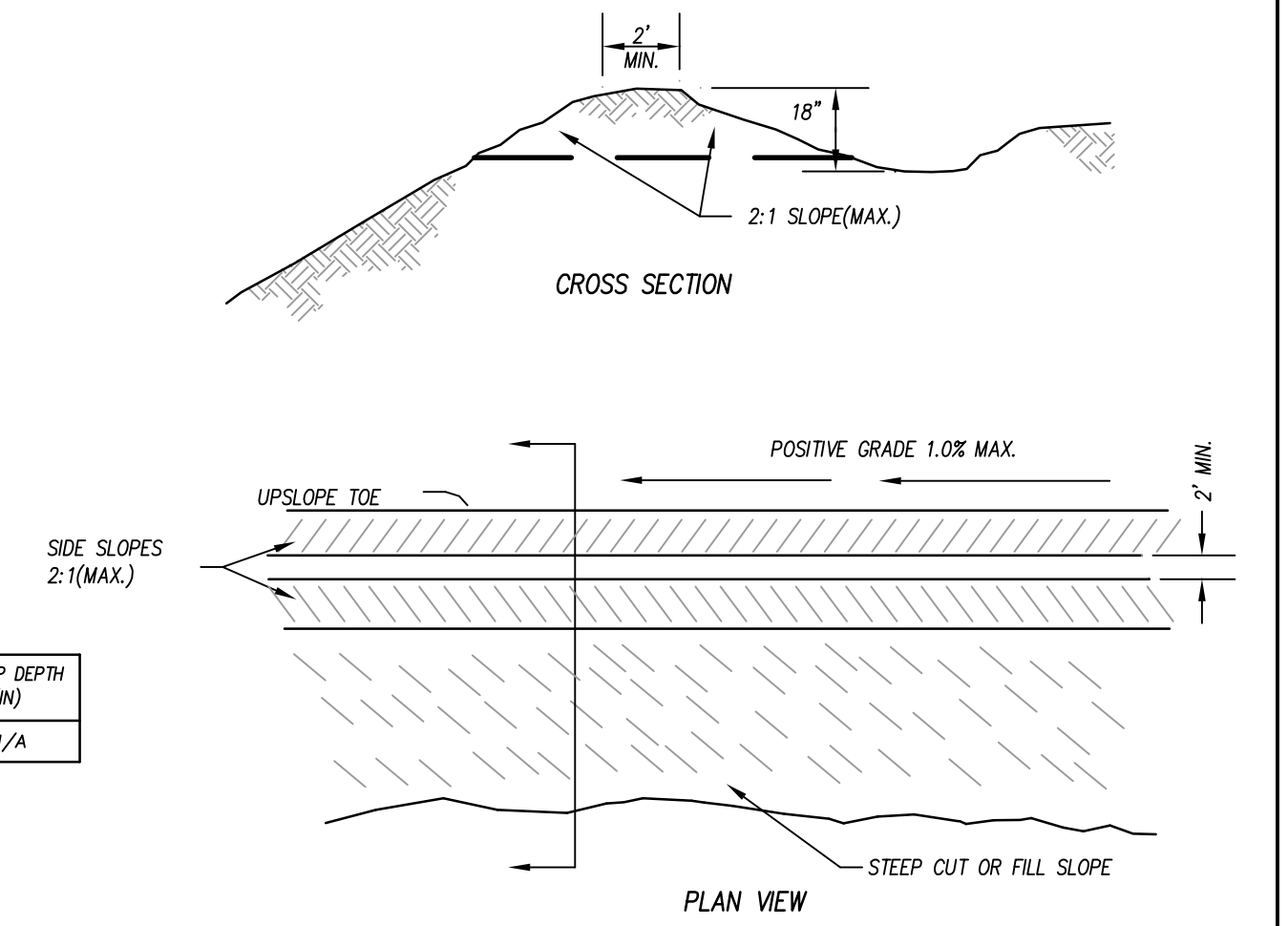
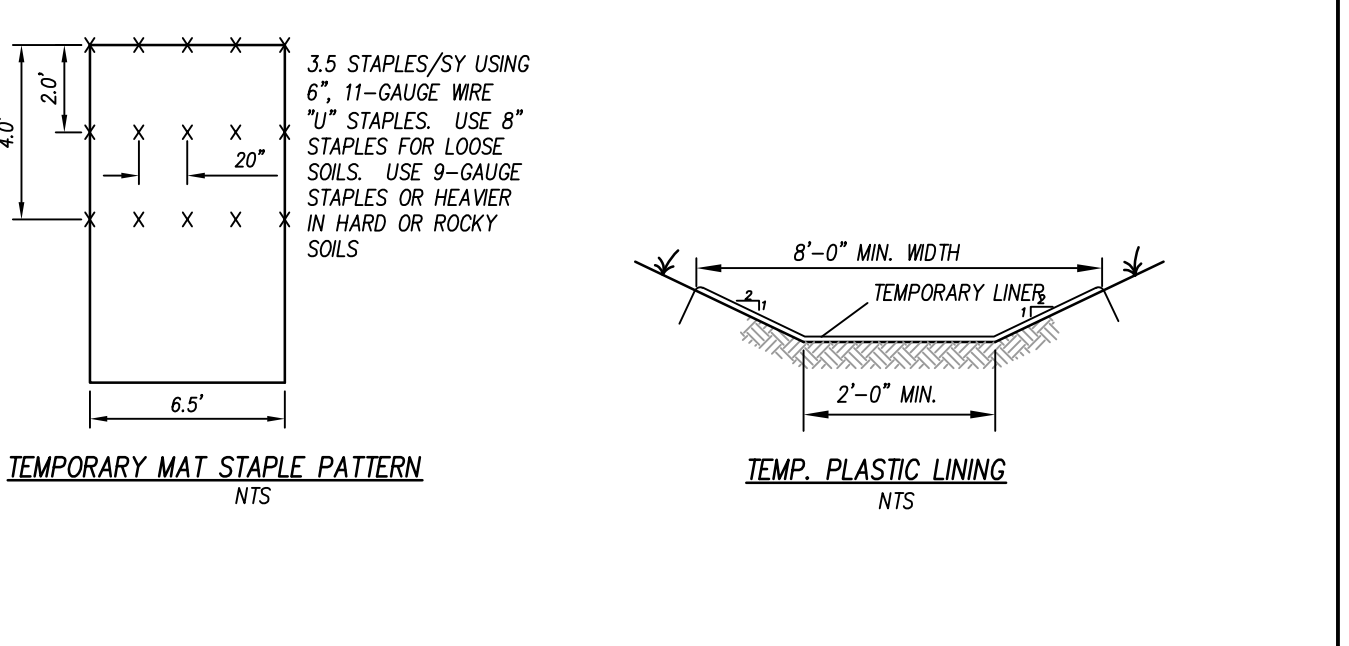
- SEE SPECIFICATIONS FOR TEMP. LINING, RRIPRAP AND FILTER FABRIC REQUIREMENTS.
- RRIPRAP CHANNELS SHALL BE OVER-EXCAVATED RRIPRAP TO BE PLACED FLUSH WITH PROPOSED CHANNEL GRADE.
- PREPARE SOIL BEFORE INSTALLING MATS OR NETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE NET OR MAT IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ROLL CENTER MAT OR NET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
- PLACE MAT OR NET END OVER END (SHINGLE STYLE) WITH A 4" OVERLAP. USE DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE.
- FULL LENGTH EDGE OF MAT OR NET AT TOP SIDE SLOPES SHALL BE ANCHORED IN 6" DEEP TRENCH AFTER STAPLING.
- MATS OR NETS SHALL BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED.
- THE TERMINAL END OF THE MAT OR NET MUST BE ANCHORED IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

MAINTENANCE NOTES:

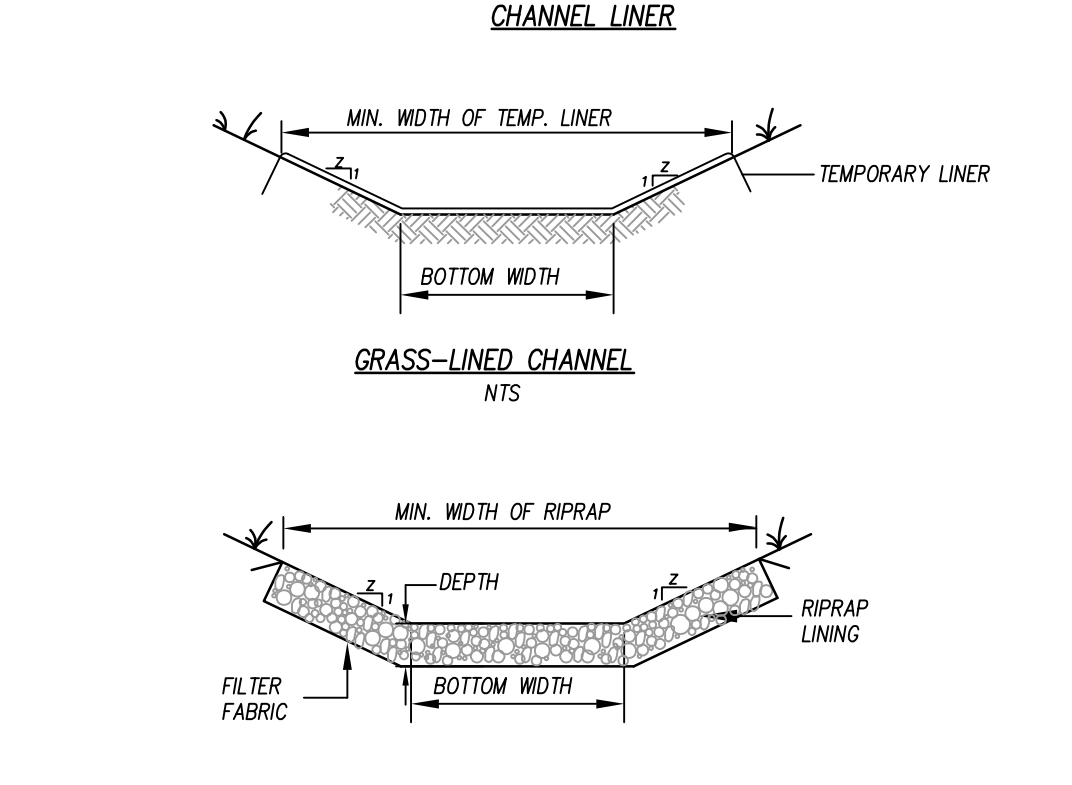
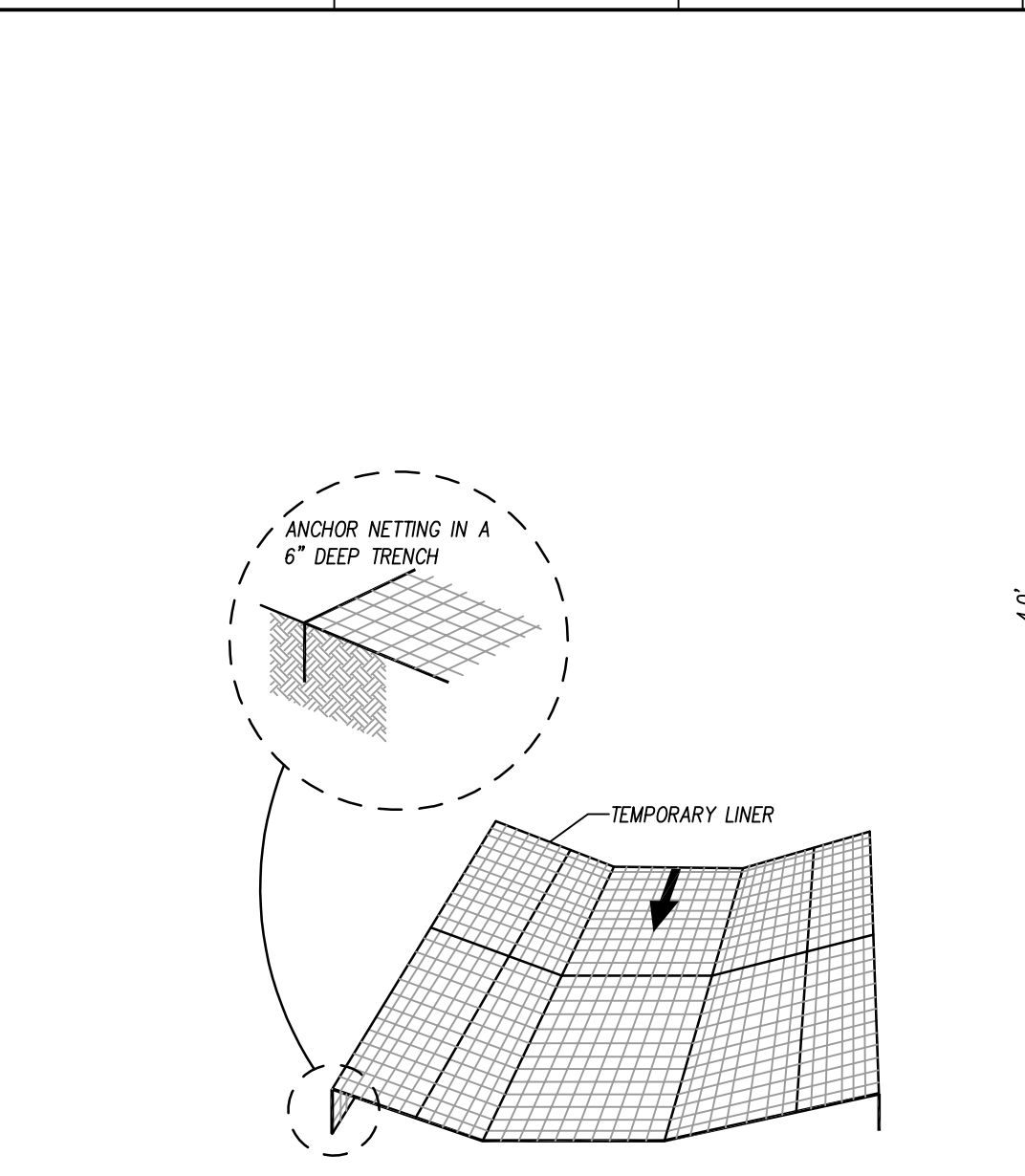
- GRASS-LINED CHANNELS TO BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENT, DURING THE ESTABLISHMENT AND AFTER THE ESTABLISHMENT PERIOD.
- REPAIRS ARE TO BE MADE IMMEDIATELY.
- REMOVE SEDIMENT ACCUMULATIONS TO MAINTAIN DESIGNED CARRYING CAPACITY.
- GRASS IS TO BE HEALTHY AND IN VIGOROUS CONDITIONS AT ALL TIMES.



CHANNEL SECTIONS N.T.S.



TEMPORARY DIVERSION DITCH / BERM N.T.S.



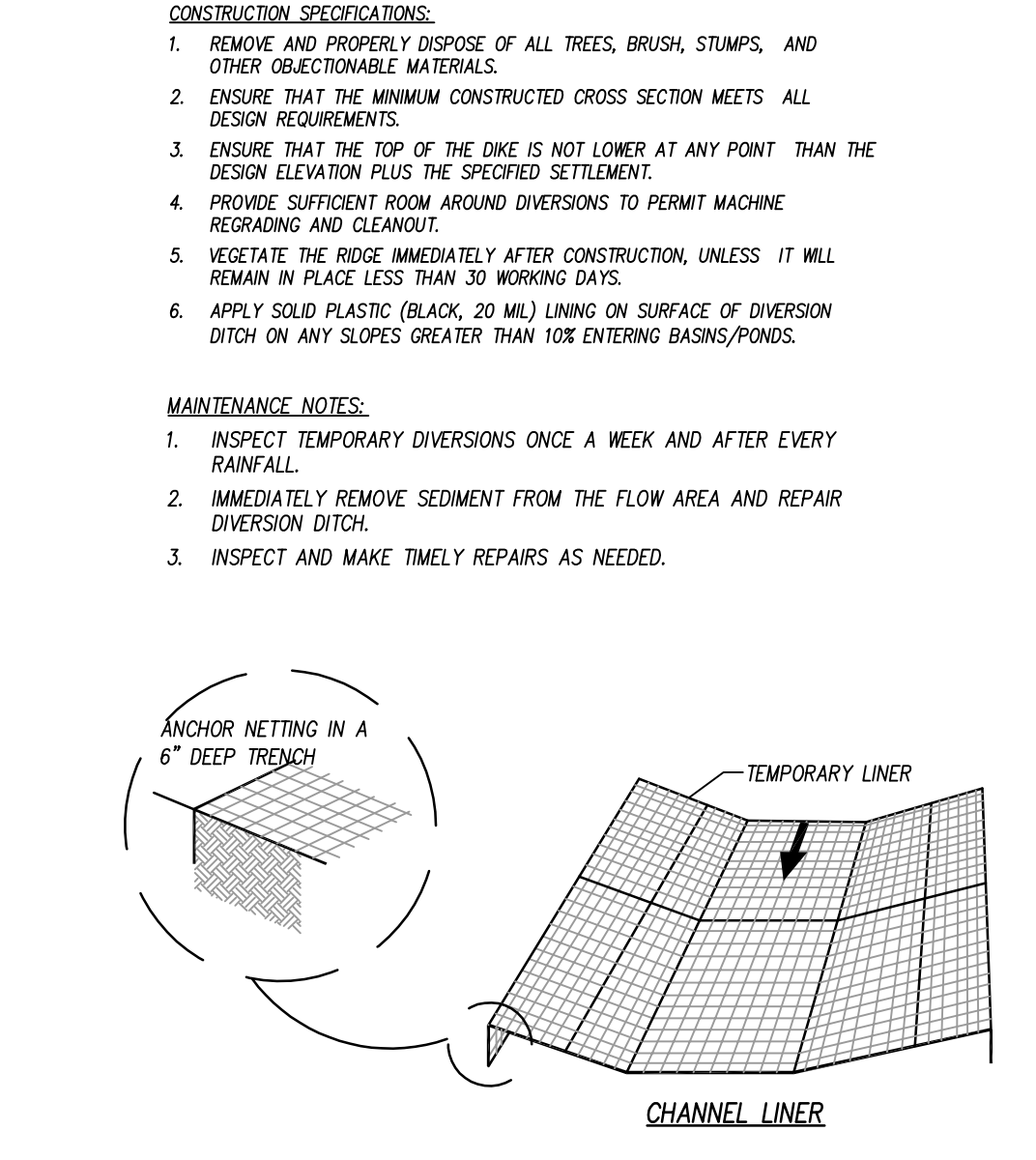
CONSTRUCTION SPECIFICATIONS:

- REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIALS.
- ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DESIGN REQUIREMENTS.
- ENSURE THAT THE TOP OF THE DIKE IS NOT LOWER AT ANY POINT THAN THE DESIGN ELEVATION PLUS THE SPECIFIED SETTLEMENT.
- PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REWARDING AND CLEANOUT.
- VEGETATE THE RIDGE IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.
- APPLY SOLID PLASTIC (BLACK, 20 MIL) LINING ON SURFACE OF DIVERSION DITCH ON ANY SLOPES GREATER THAN 10% ENTERING BASINS/PONDS.

MAINTENANCE NOTES:

- INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL.
- IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR DIVERSION DITCH.
- INSPECT AND MAKE TIMELY REPAIRS AS NEEDED.

CHANNEL SECTIONS N.T.S.



DIVISION DITCH SCHEDULE

CHANNEL	BOTTOM WIDTH (FT)	SIDE SLOPE (H:V)	CHANNEL GRADE	CHANNEL LENGTH	PERM. LINING	TEMP. LINING	MIN. TOP WIDTH OF LINING (FT)	RRIPRAP DEPTH (IN)
1	4	3:1	1.00%	200 LF	GRASS	EXCELSIOR	10	N/A

TEMPORARY DIVERSION DITCH / BERM N.T.S.

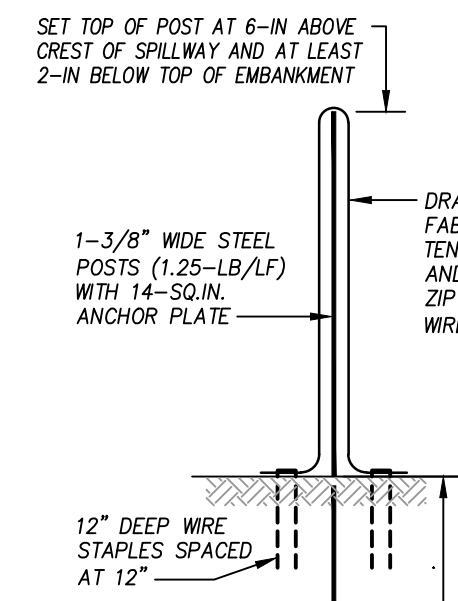
PROJECT INFORMATION

ONSLOW COUNTY BEAR
CREEK FIRE STATION
ONSLOW COUNTY

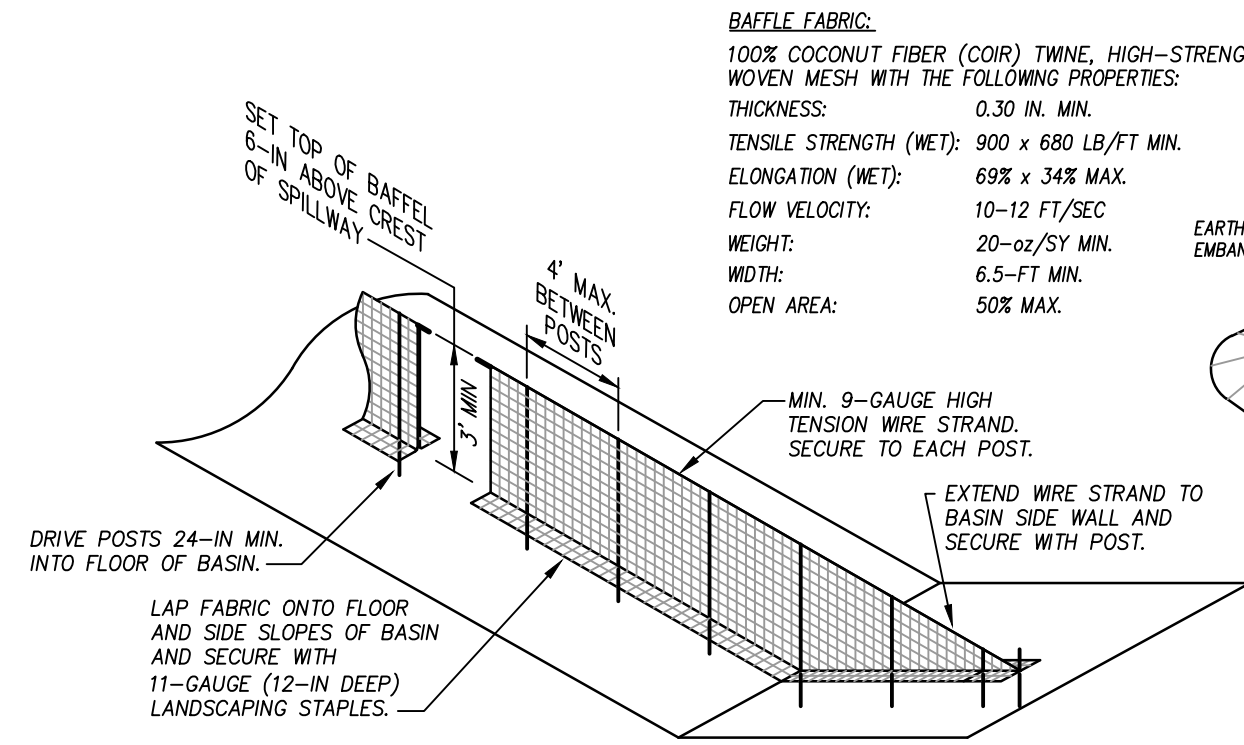
OLD SAND RIDGE RD. HUBERT, NC 28539

MAINTENANCE NOTES:

1. INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF-FULL, TO PREVENT ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEAN OUT, AND REPLACE IF DAMAGED DURING CLEAN OUT OPERATIONS. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGN STORAGE DEPTH.
4. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE AND STABILIZE THE AREA.

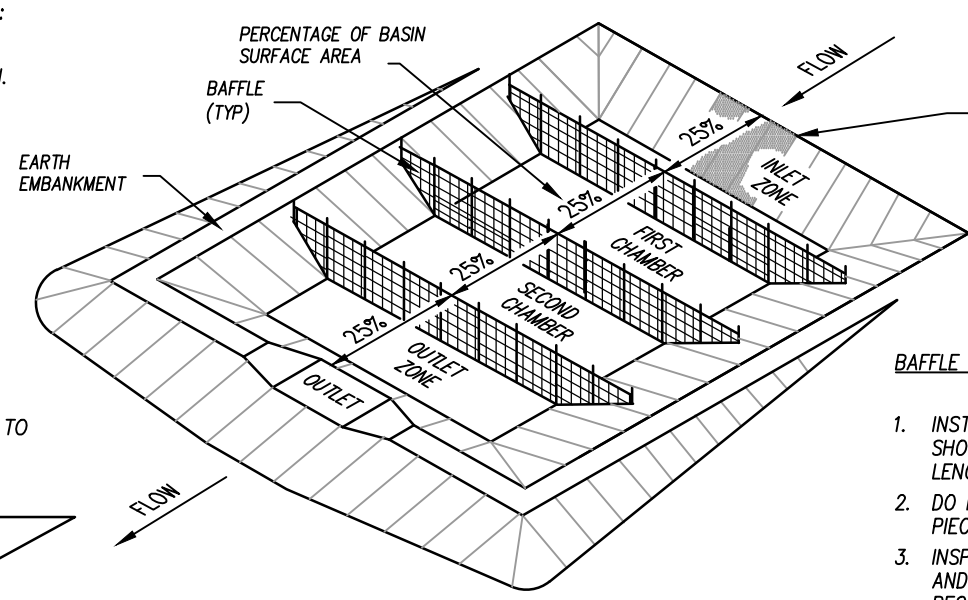


BAFFLE SECTION



BAFFLE INSTALLATION

BAFFLE FABRIC:
100% COCONUT FIBER (COIR) TWINE, HIGH-STRENGTH WOVEN MESH WITH THE FOLLOWING PROPERTIES:
THICKNESS: 0.30 IN. MIN.
TENSILE STRENGTH (WET): 900 x 34% MIN.
ELONGATION (WET): 69% x 34% MAX.
FLOW VELOCITY: 10-12 FT/SEC
WEIGHT: 20-oz/5Y MIN.
WIDTH: 6.5-FT MIN.
OPEN AREA: 50% MAX.



BAFFLE NOTES:

1. INSTALL AT LEAST 3 BAFFLES SPACED AS SHOWN. BASINS LESS THAN 20-FT IN LENGTH MAY USE 2 BAFFLES.
2. DO NOT SPLICE FABRIC. USE CONTINUOUS PIECE ACROSS THE BASIN.
3. INSPECT BAFFLES AT LEAST ONCE PER WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
4. SHOULD BAFFLE FABRIC COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE PROMPTLY.
5. TAKE CARE TO AVOID DAMAGE TO BAFFLES DURING PERIODIC SEDIMENT REMOVAL. REPAIR ANY DAMAGE AS NEEDED.

TEMPORARY BASIN BAFFLES

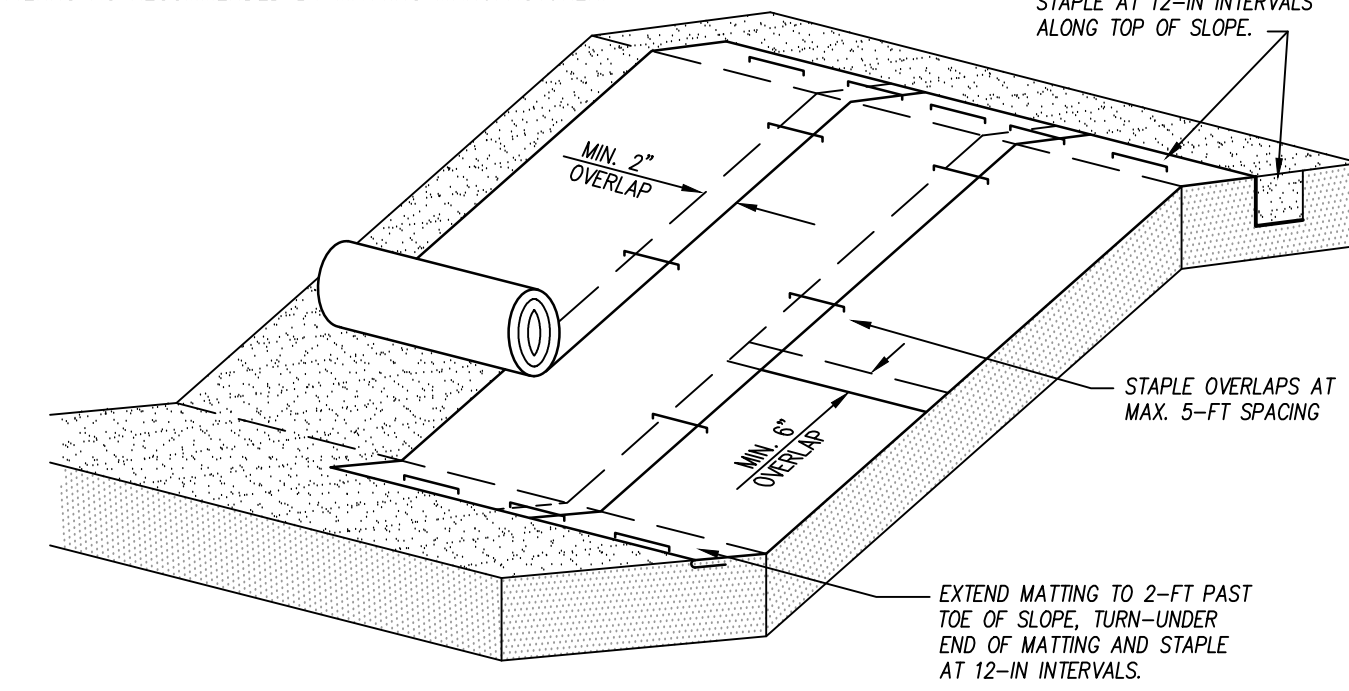
N.T.S.

MAINTENANCE NOTES:

1. INSPECT MATTING AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2-IN OR GREATER) RAINFALL AND REPAIR IMMEDIATELY AS NEEDED.
2. ENSURE GOOD CONTACT WITH SOIL SURFACE IS MAINTAINED AND EROSION DOES NOT OCCUR BENEATH MATTING.
3. AREAS OF MATTING THAT ARE DAMAGED OR WHERE NOT IN CLOSE CONTACT WITH THE SOIL SHALL BE REPAIRED AND STAPLED.
4. IF EROSION OCCURS DUE TO POORLY CONTROLLED DAMAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREAS PROTECTED.
5. MONITOR AND REPAIR MATTING AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

NOTES:

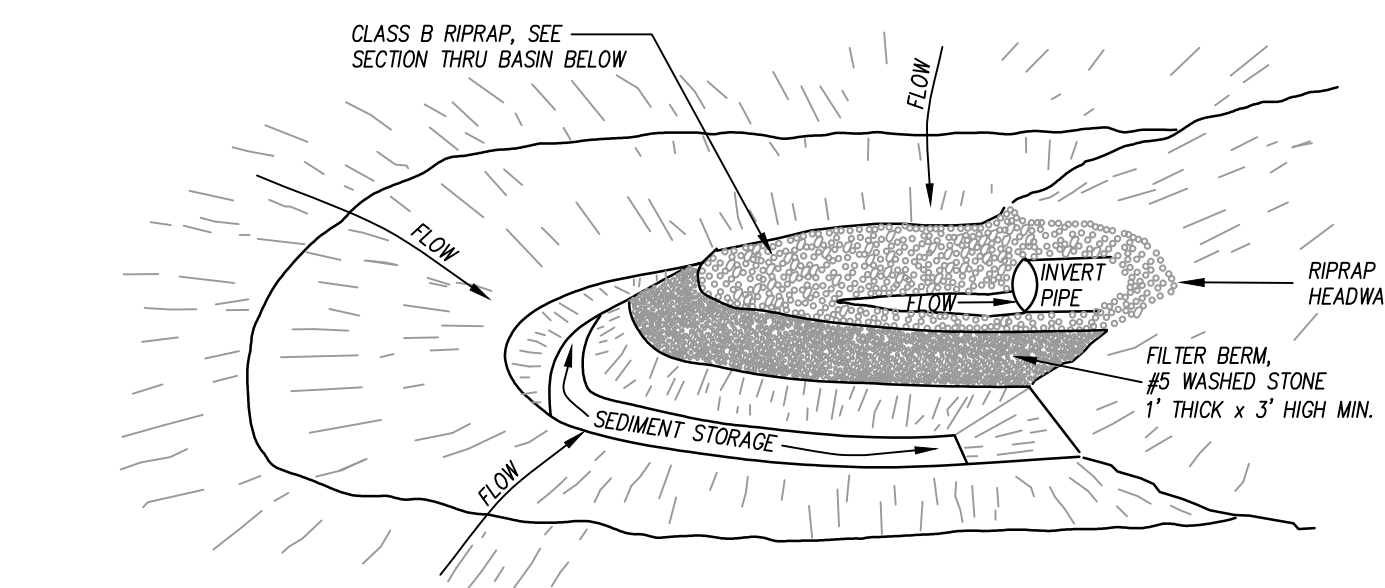
1. SLOPE SURFACE SHALL BE SMOOTH PRIOR TO PLACEMENT OF MATTING TO ENSURE PROPER SOIL CONTACT.
2. LIME, FERTILIZE, AND SEED PRIOR TO PLACING MATTING. PLANT SHRUBS, TREES, ETC. FOLLOWING PLACEMENT OF MATTING.
3. ON SLOPES FLATTER THAN 4:1, ROLLS MAY BE PLACED IN HORIZONTAL STRIPS.
4. DO NOT STRETCH MATTING TIGHT. ALLOW ROLLS TO CONFORM TO ANY IRREGULARITIES.
5. INSTALL STAPLES IN PATTERNS AS RECOMMENDED BY MATTING MANUFACTURER.



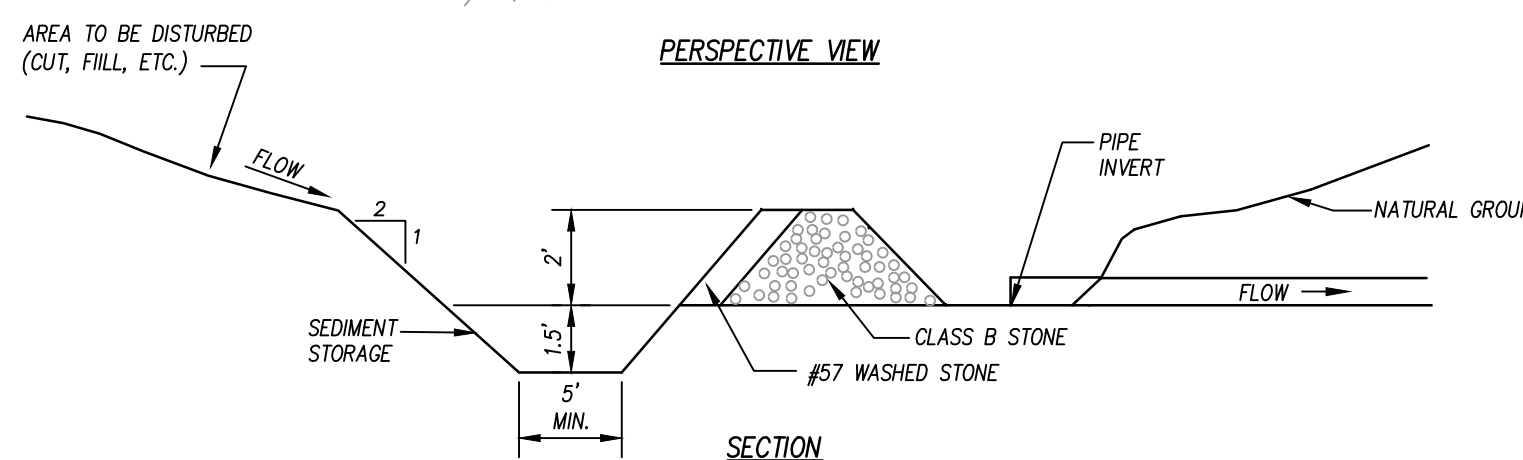
SLOPE PROTECTION MATTING

N.T.S.

SEALS



PERSPECTIVE VIEW



SECTION

MAINTENANCE NOTES:

1. INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL AND REPAIR IMMEDIATELY.
2. REMOVE SEDIMENT AND RESTORE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP.
3. CHECK THE STRUCTURE FOR DAMAGE AND REPLACE ANY DISPLACED RIPRAP IMMEDIATELY.
4. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

TEMPORARY ROCK PIPE INLET PROTECTION

N.T.S.

DKA JOB NUMBER
2324

REVISIONS

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PA: ZP
PM: YA
Drawn By: SL/SH
Plot Date: 03/12/2025

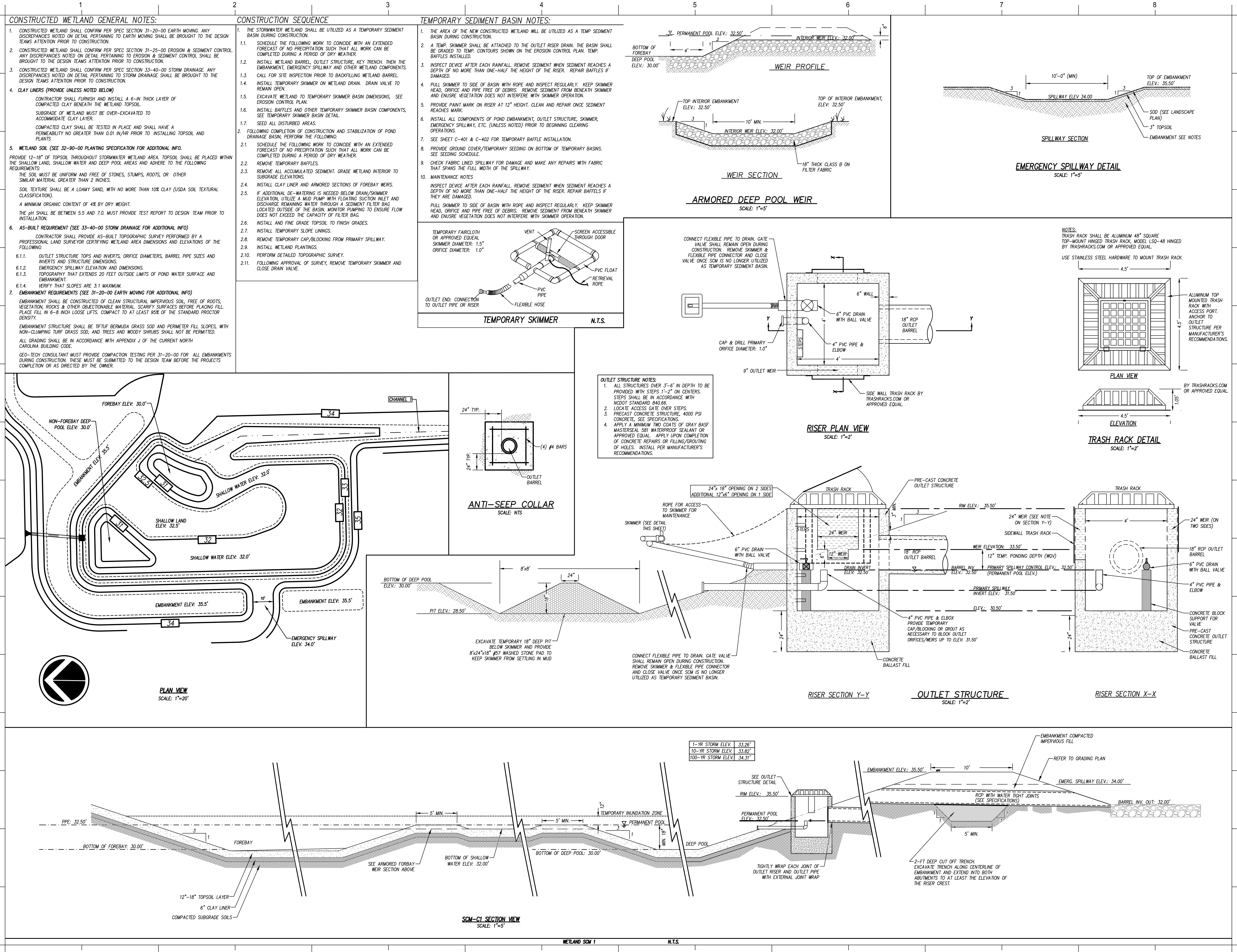
DATE ISSUED

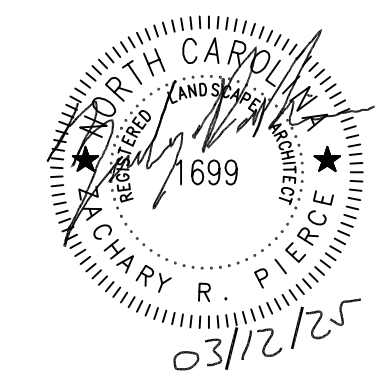
BID DOCUMENTS

03/12/2025

SHEET TITLE
EROSION CONTROL
DETAILS

C702





REVISIONS

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PA: ZP
PM: YA
Drawn By: SL/SH
Plot Date: 03/12/2025

DETENTION WETLAND PLANTING SCHEDULE

TEMPORARY INUNDATION ZONE SHRUBS			
KEY	QTY	PLANT NAME	SIZE
CO	12	CEPHALANTHUS OCCIDENTALIS - BUTTON BUSH	MIN. 12" HT. CONT.
PO	15	PHYSOCARPUS OPULIFOLIUS 'DIABOLO' - NINEBARK	PLANT 5' O.C.
VN	18	VIBURNUM NUIDUM 'BRANDYWINE' - POSSUMHAW VIBURNUM	
ST	22	SPIREA TOMENTOSA - STEEPLEBUSH	

TEMPORARY INUNDATION ZONE PLANT LIST			
49	CAREX STRICTA - TUSSOCK SEDGE	LARGE PLUGS (MIN. 6 CUBIC INCHES)	
49	ASCLEPIAS INCARNATA - SWAMP MILKWEED	SPACE 2' O.C.	
49	SAURURUS CERNUUS - LIZARD'S TAIL		
49	LOBELIA CARDINALIS - CARDINAL FLOWER		
50	LIATRIS SPICATA - BLAZING STAR		

SHALLOW WATER PLANT LIST			
157	PELTANDRA VIRGINICA - ARROW ARUM	LARGE PLUGS (MIN. 6 CUBIC INCHES)	
157	PONTEDERIA CORDATA - PICKERELWEED	SPACE 2' O.C.	
158	ACORUS AMERICANUS - SWEETFLAG		
158	IRIS VIRGINICA - VIRGINIA IRIS		
158	JUNCUS EFFUSUS - COMMON RUSH		

DEEP POOL AND MICRO POOL PLANT LIST			
250	NYPHAEA OORATA - WATERLILY	LARGE PLUGS (MIN. 6 CUBIC INCHES)	
	SOD - TIFUF BERMUDA	SPACE 2' O.C.	

- NOTES**
1. WETLAND AREA SHALL BE DRAINED ONE DAY PRIOR TO PLANTING.
 2. LANDSCAPE ARCHITECT TO APPROVE ALL LOCATIONS IN FIELD.
 3. PLACE PLANTINGS IN DESIGNATED AREA BY SPECIES IN GROUPINGS OF 40 PLANTS OR MORE.
 4. SOODED AREA SHALL NOT BE MOWED AT SIDE SLOPES.

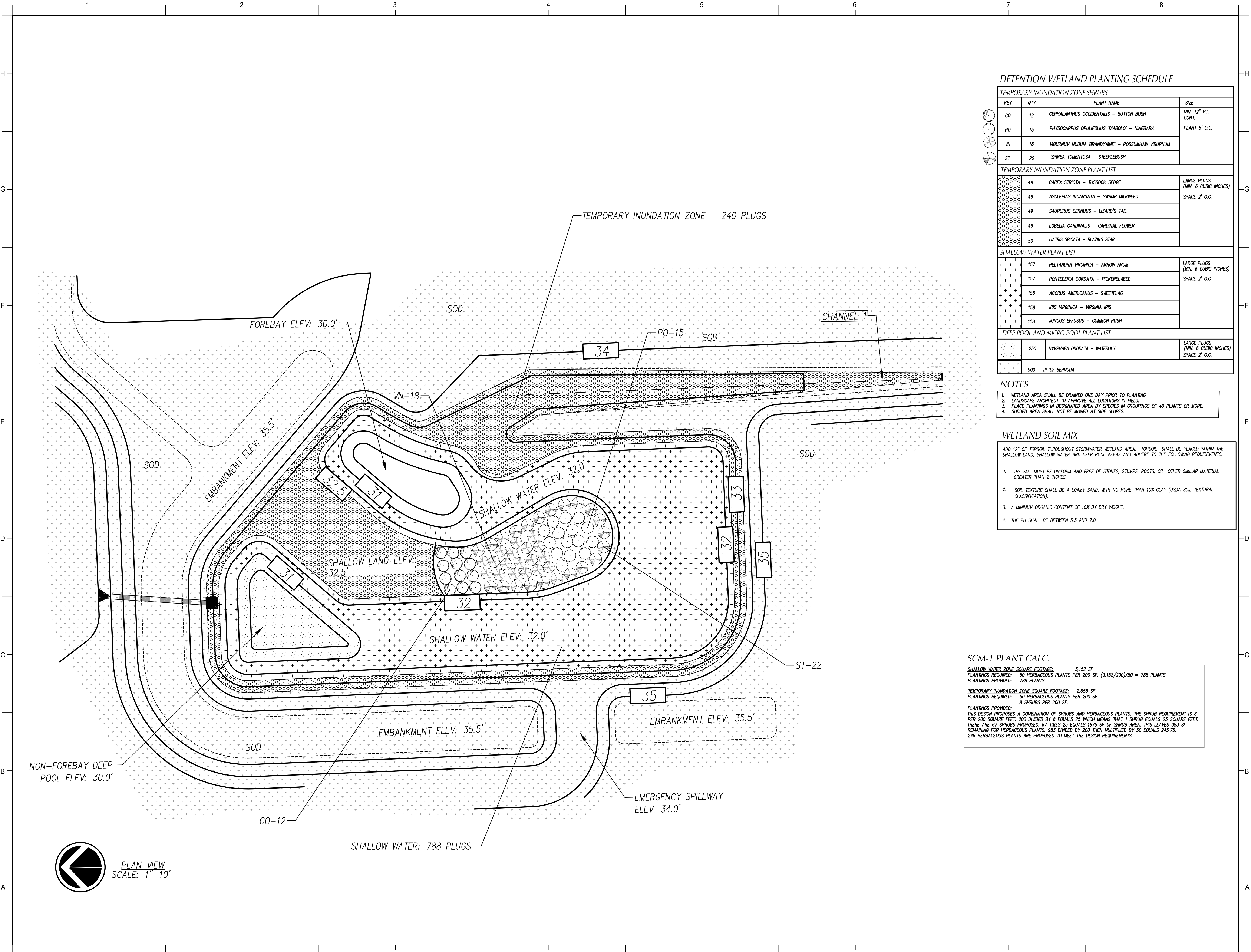
- WETLAND SOIL MIX**
- ADD 12" OF TOPSOIL THROUGHOUT STORMWATER WETLAND AREA. TOPSOIL SHALL BE PLACED WITHIN THE SHALLOW LAND, SHALLOW WATER AND DEEP POOL AREAS AND ADHERE TO THE FOLLOWING REQUIREMENTS:
1. THE SOIL MUST BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES.
 2. SOIL TEXTURE SHALL BE A LOAMY SAND, WITH NO MORE THAN 10% CLAY (USDA SOIL TEXTURAL CLASSIFICATION).
 3. A MINIMUM ORGANIC CONTENT OF 10% BY DRY WEIGHT.
 4. THE PH SHALL BE BETWEEN 5.5 AND 7.0.

SCM-1 PLANT CALC.

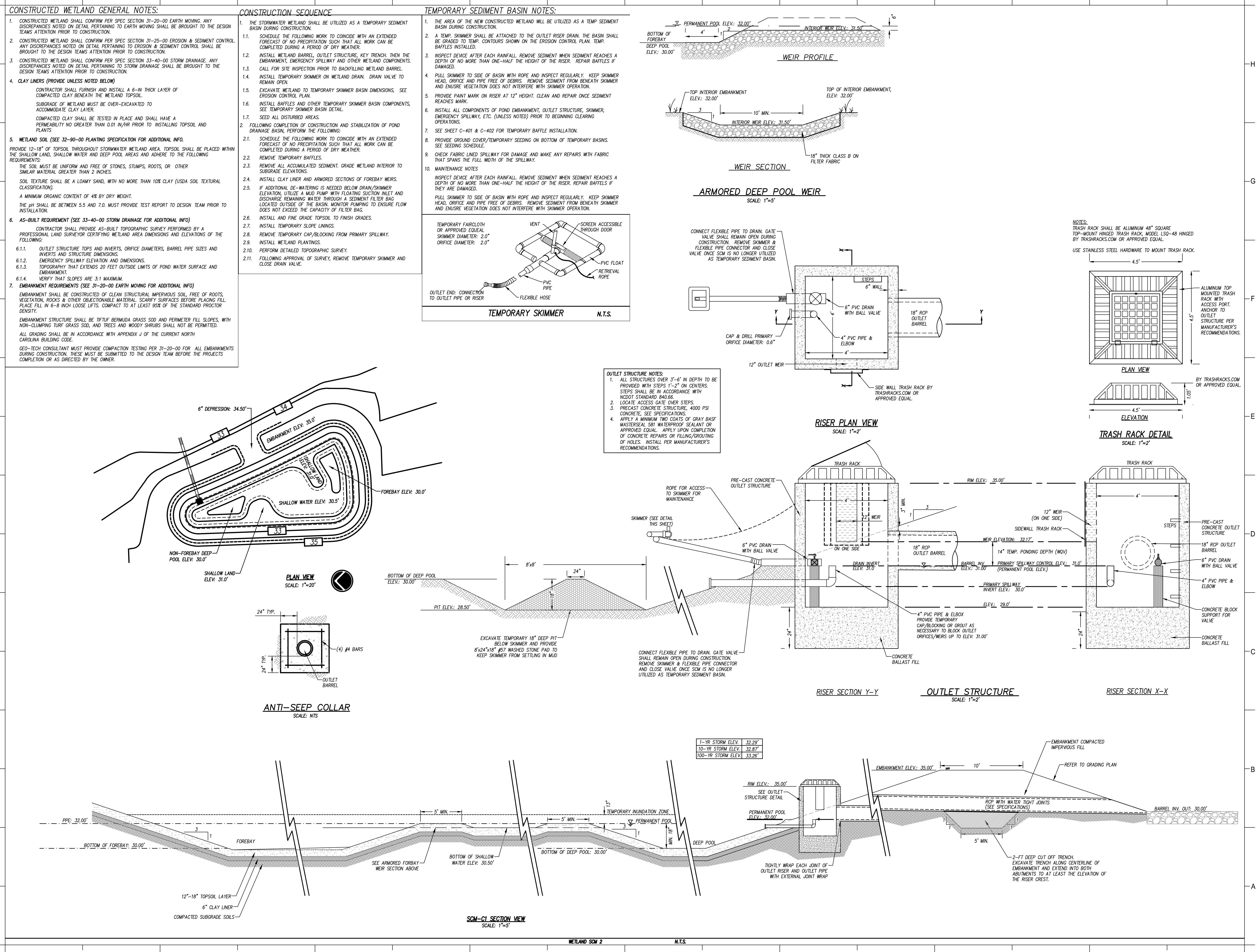
SHALLOW WATER ZONE SQUARE FOOTAGE: 3,152 SF
PLANTINGS REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (3,152/200)X50 = 788 PLANTS
PLANTINGS PROVIDED: 788 PLANTS

TEMPORARY INUNDATION ZONE SQUARE FOOTAGE: 2,658 SF
PLANTINGS REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF.
8 SHRUBS PER 200 SF.

PLANTINGS PROVIDED:
THIS DESIGN PROPOSES A COMBINATION OF SHRUBS AND HERBACEOUS PLANTS. THE SHRUB REQUIREMENT IS 8 PER 200 SQUARE FEET. 200 DIVIDED BY 8 EQUALS 25 WHICH MEANS THAT 1 SHRUB EQUALS 25 SQUARE FEET. THERE ARE 67 SHRUBS PROPOSED. 67 TIMES 25 EQUALS 1675 SF OF SHRUB AREA. THIS LEAVES 983 SF REMAINING FOR HERBACEOUS PLANTS. 983 DIVIDED BY 200 THEN MULTIPLIED BY 50 EQUALS 245.75. 246 HERBACEOUS PLANTS ARE PROPOSED TO MEET THE DESIGN REQUIREMENTS.



PLAN VIEW
SCALE: 1"=10'



DETENTION WETLAND PLANTING SCHEDULE

TEMPORARY INUNDATION ZONE PLANT LIST		
45	CAREX STRICTA - TUSSOCK SEDGE	LARGE PLUGS (MIN. 6 CUBIC INCHES)
45	ASCLEPIAS INCARNATA - SWAMP MILKWEED	SPACE 2' O.C.
45	SAURURUS CERNUUS - LIZARD'S TAIL	
45	LOBELIA CARDINALIS - CARDINAL FLOWER	
44	LIATRIS SPICATA - BLAZING STAR	

SHALLOW WATER PLANT LIST		
38	PELTANDRA VIRGINICA - ARROW ARUM	LARGE PLUGS (MIN. 6 CUBIC INCHES)
38	PONTERERIA CORDATA - PICKERELWEED	SPACE 2' O.C.
38	ACORUS AMERICANUS - SWEETFLAG	
38	IRIS VIRGINICA - VIRGINIA IRIS	
39	JUNCUS EFFUSUS - COMMON RUSH	

DEEP POOL AND MICRO POOL PLANT LIST		
62	NYMPHAEA OORATA - WATERLILY	LARGE PLUGS (MIN. 6 CUBIC INCHES) SPACE 2' O.C.

SOD - TIFLUF BERMUDA

NOTES

1. WETLAND AREA SHALL BE DRAINED ONE DAY PRIOR TO PLANTING.
2. LANDSCAPE ARCHITECT TO APPROVE ALL LOCATIONS IN FIELD.
3. PLACE PLANTINGS IN DESIGNATED AREA BY SPECIES IN GROUPINGS OF 40 PLANTS OR MORE.
4. SODDED AREA SHALL NOT BE MOWED AT SIDE SLOPES.

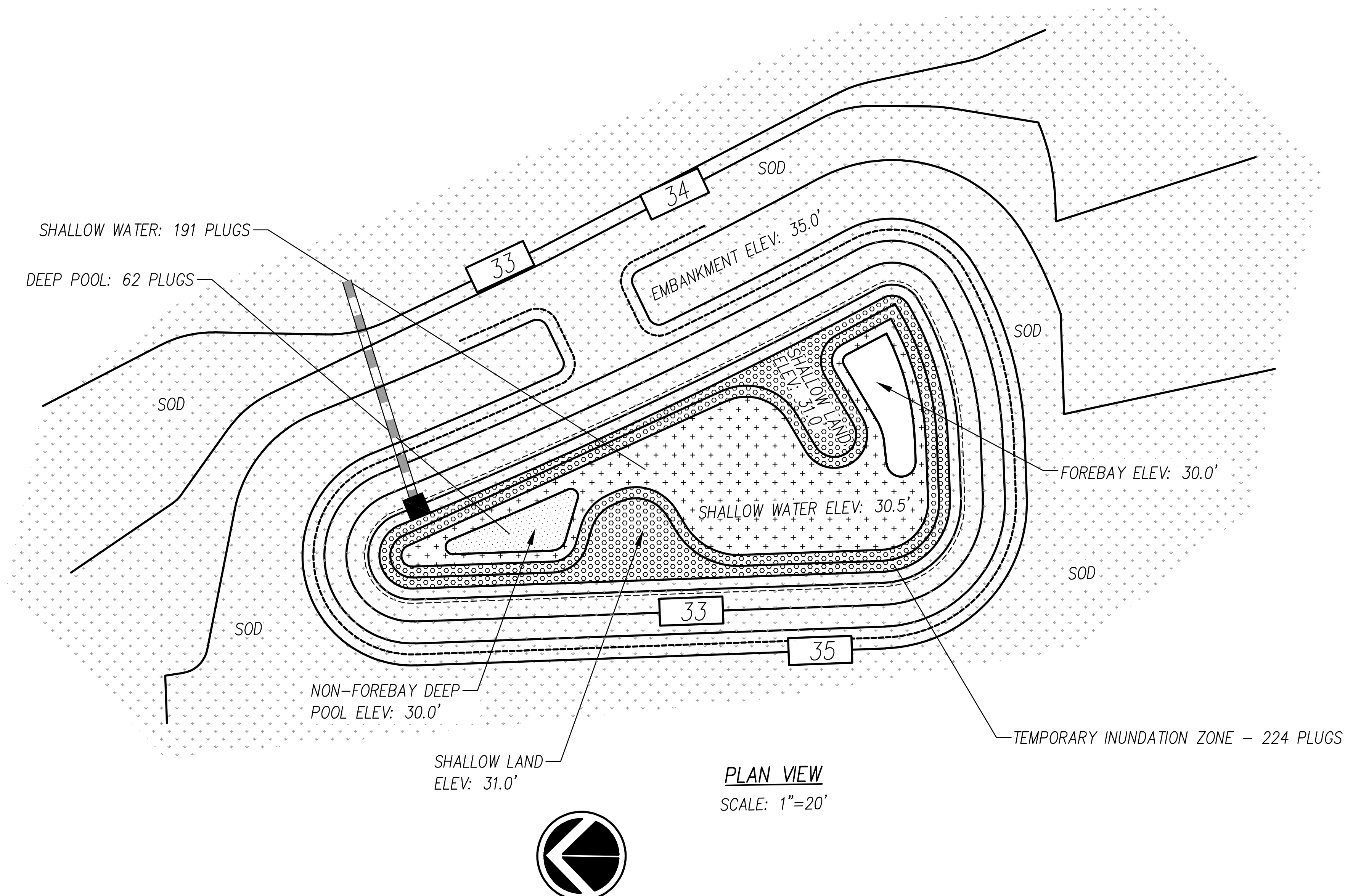
WETLAND SOIL MIX

ADD 12" OF TOPSOIL THROUGHOUT STORMWATER WETLAND AREA. TOPSOIL SHALL BE PLACED WITHIN THE SHALLOW LAND, SHALLOW WATER AND DEEP POOL AREAS AND ADHERE TO THE FOLLOWING REQUIREMENTS:

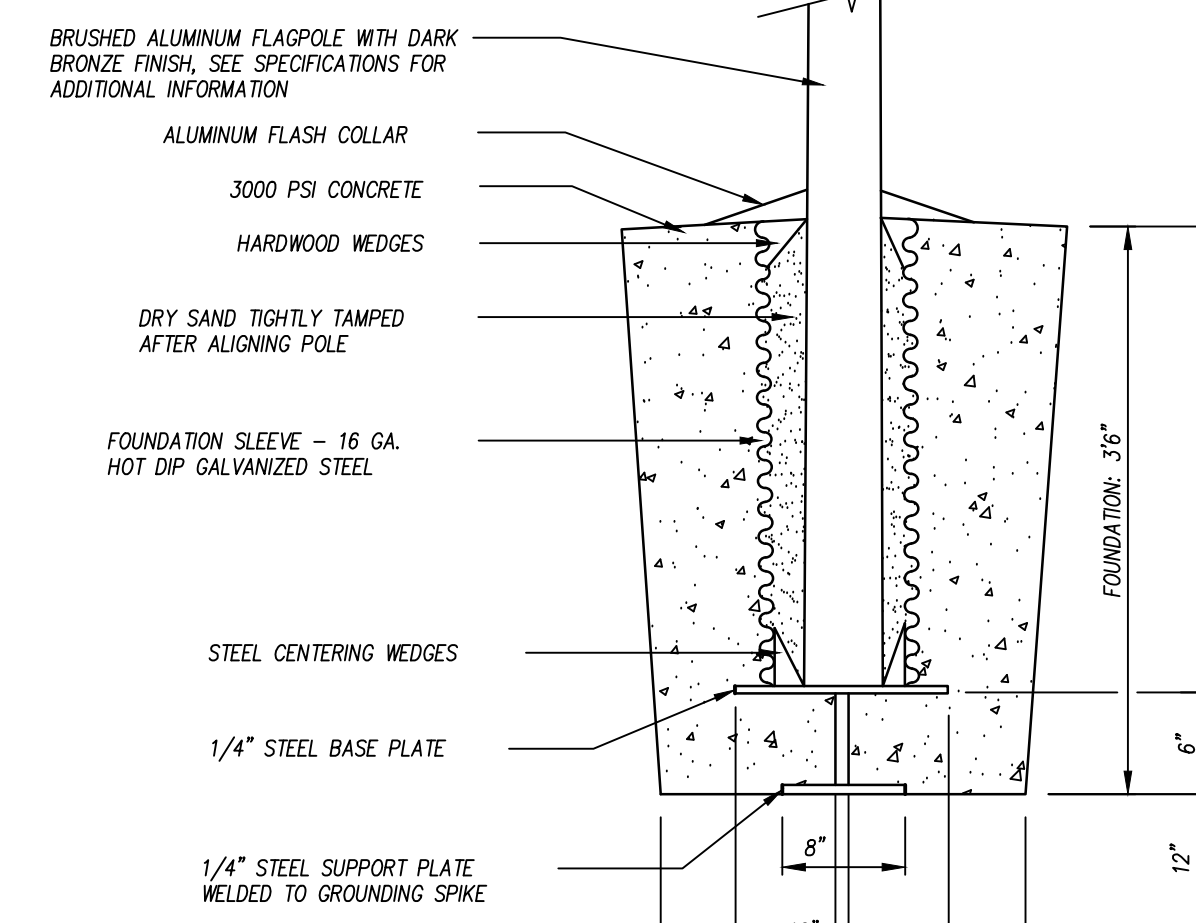
1. THE SOIL MUST BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES.
2. SOIL TEXTURE SHALL BE A LOAMY SAND, WITH NO MORE THAN 10% CLAY (USDA SOIL TEXTURAL CLASSIFICATION).
3. A MINIMUM ORGANIC CONTENT OF 10% BY DRY WEIGHT.
4. THE PH SHALL BE BETWEEN 5.5 AND 7.0.

SCM-1 PLANT CALC.

SHALLOW WATER ZONE SQUARE FOOTAGE:	762 SF
PLANTINGS REQUIRED:	50 HERBACEOUS PLANTS PER 200 SF. (762/200)X50 = 190.5 (191) PLANTS
PLANTINGS PROVIDED:	191 PLANTS
TEMPORARY INUNDATION ZONE SQUARE FOOTAGE:	895 SF
PLANTINGS REQUIRED:	50 HERBACEOUS PLANTS PER 200 SF. (895/200)X50 = 223.75 (224) PLANTS
PLANTINGS PROVIDED:	224 PLANTS



PLAN VIEW
SCALE: 1"=20'



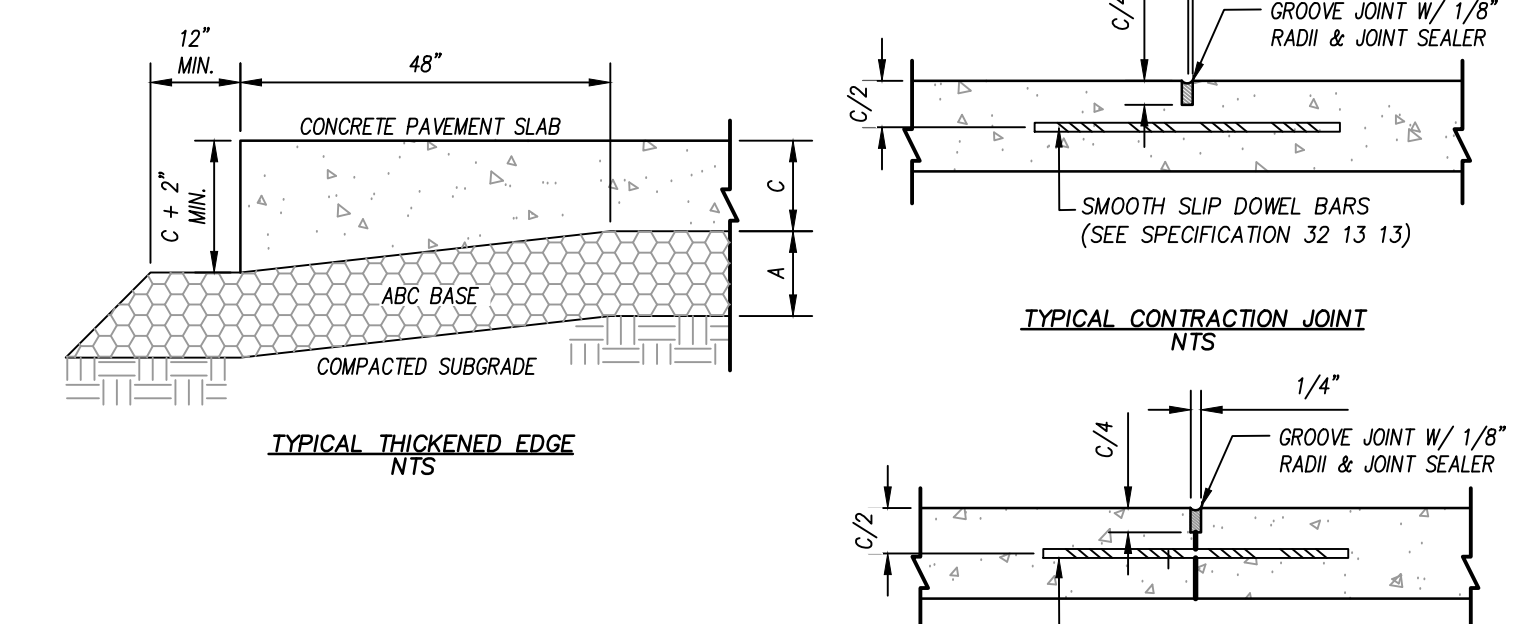
- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. FLAGPOLE SHALL BE SEAMLESS, TAPERED ALUMINUM TUBING, DARK BRONZE FINISH, MANUFACTURER'S STANDARD 6" BUTT AND 3-1/2" TOP DIAMETER. PROVIDE COMPLETE WITH INTERNAL CAM GLEAT SYSTEM, INTERNAL HAYWARD, TRUCK COLLAR AND 8" DIAMETER LED BEACON DOWNLIGHTING. INSTALL PER MANUFACTURER.

FLAG POLE DETAIL N.T.S.

	LIGHT DUTY ASPHALT	HEAVY DUTY ASPHALT	GRAVEL PAVEMENT
SURFACE COURSE (#78 WASHED STONE)	--	--	1-IN
SURFACE COURSE (NC DOT 5-9.5B)	2-IN	1.5-IN	--
BINDER COURSE (NC DOT 1-18.0C)	--	2.5-IN	--
AGGREGATE BASE COURSE (NC DOT ABC TYPE 1 OR TYPE 2)	6-IN	8-IN	6-IN

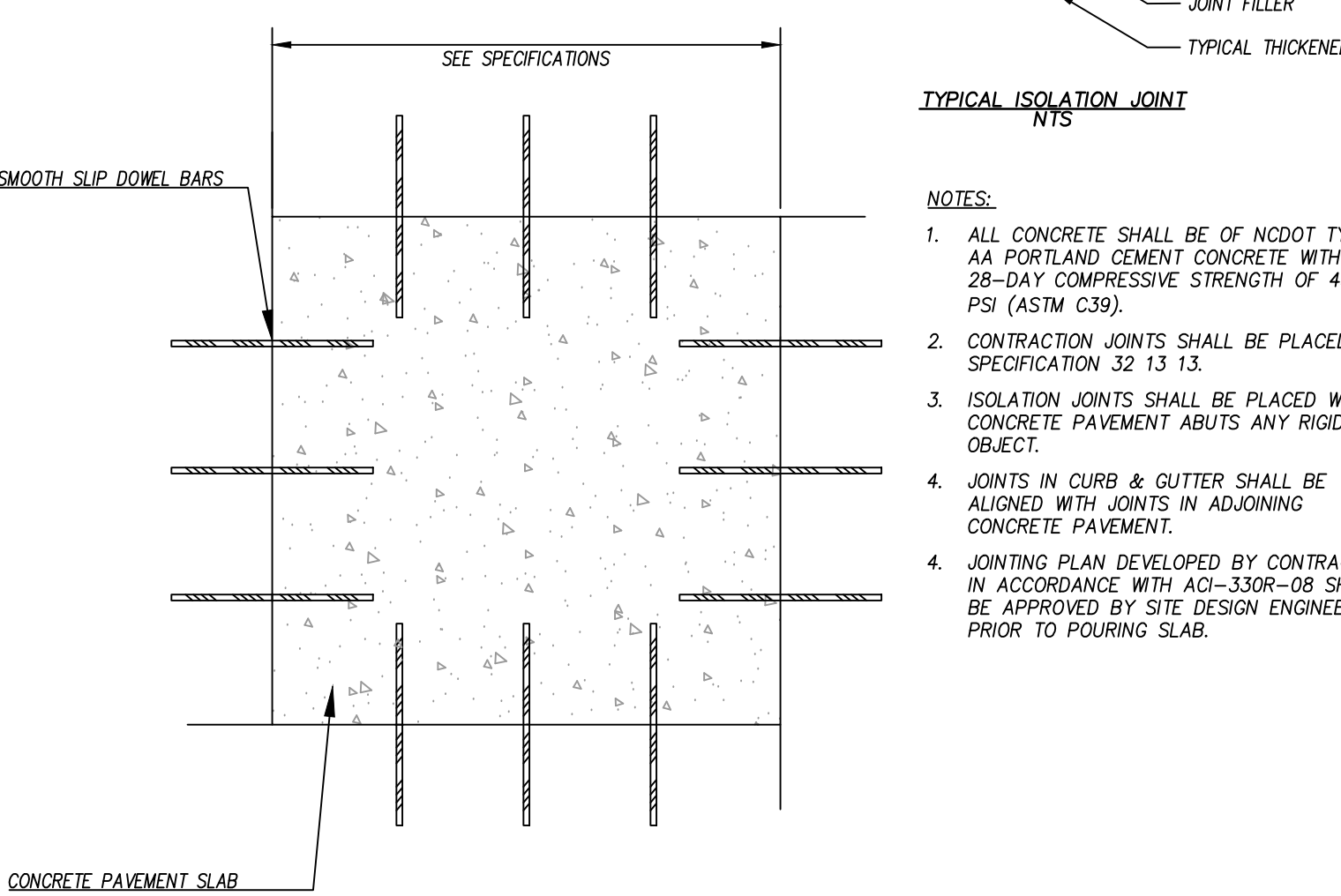
1. SEE SPECIFICATIONS FOR PROOFROLLING, COMPACTION & TESTING REQUIREMENTS.
2. DETAIL IS FOR ON-SITE PAVING OPERATIONS ONLY.
3. THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST.
4. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADEQUATE THICKNESS REQUIRED FOR INTERMEDIATE PAVING. INCREASES IN THE DESIGN PAVEMENT SECTION TO FACILITATE INTERMEDIATE PAVING SHALL BE PROVIDED AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.

ASPHALT AND GRAVEL PAVEMENT SECTIONS N.T.S.



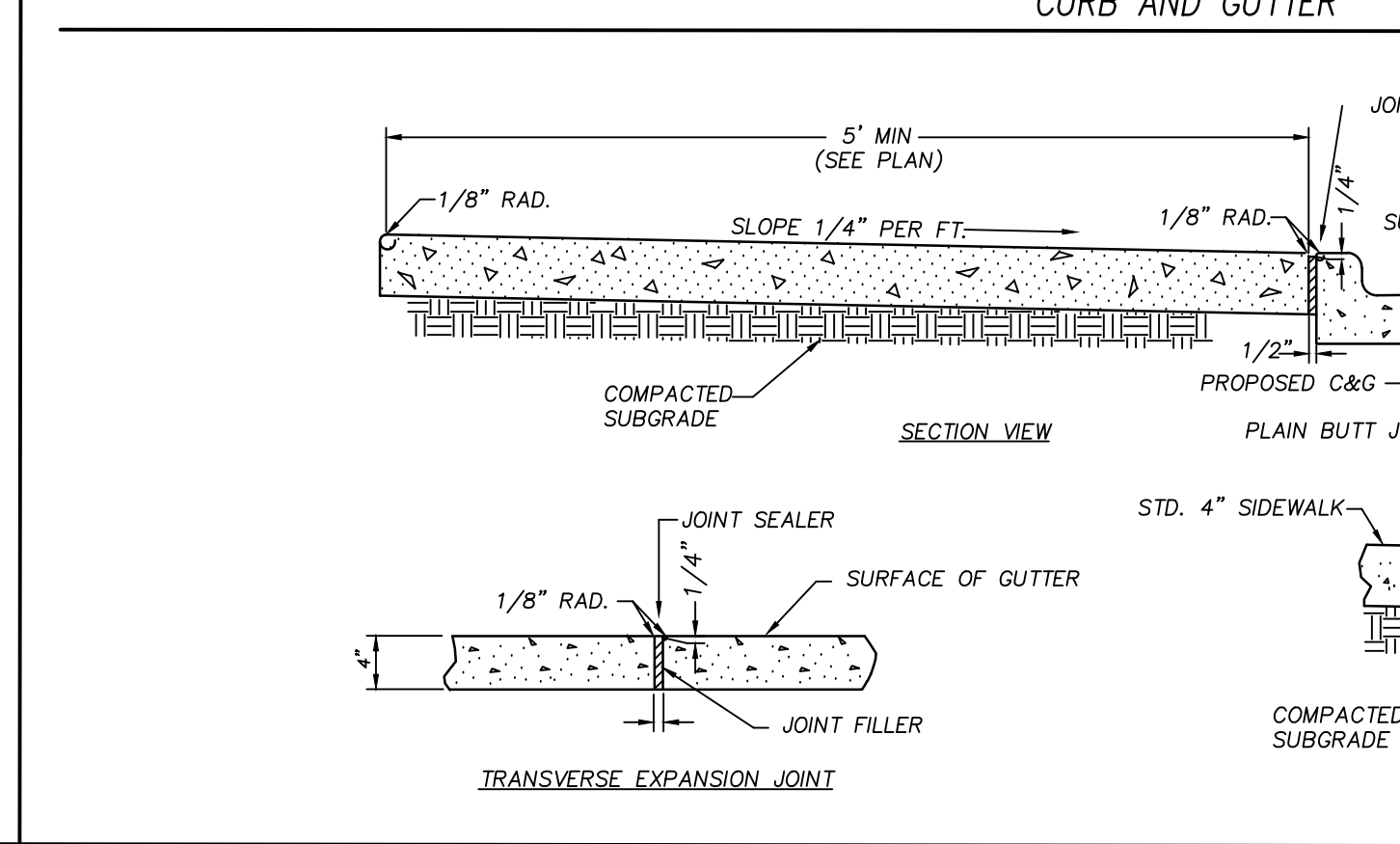
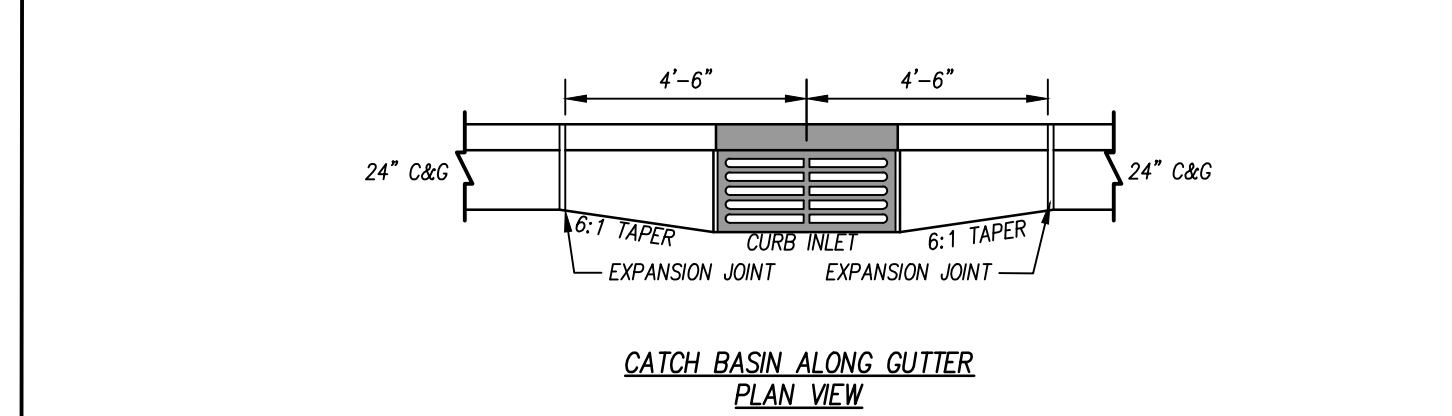
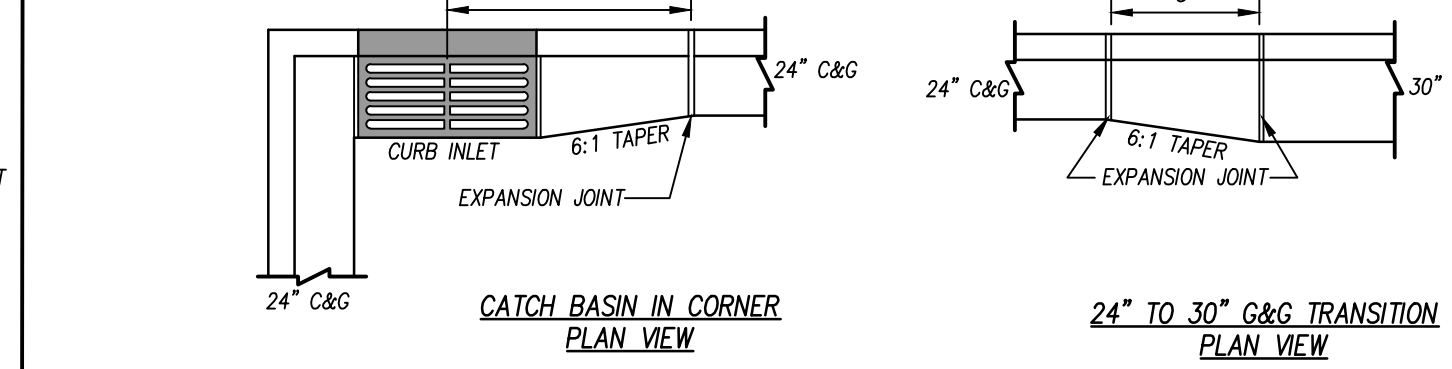
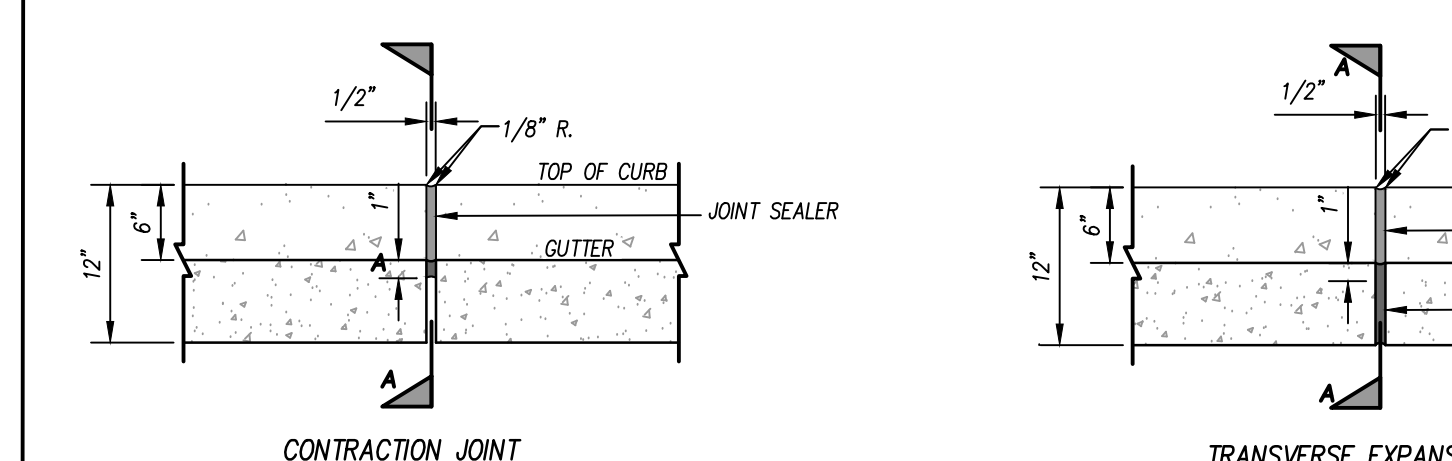
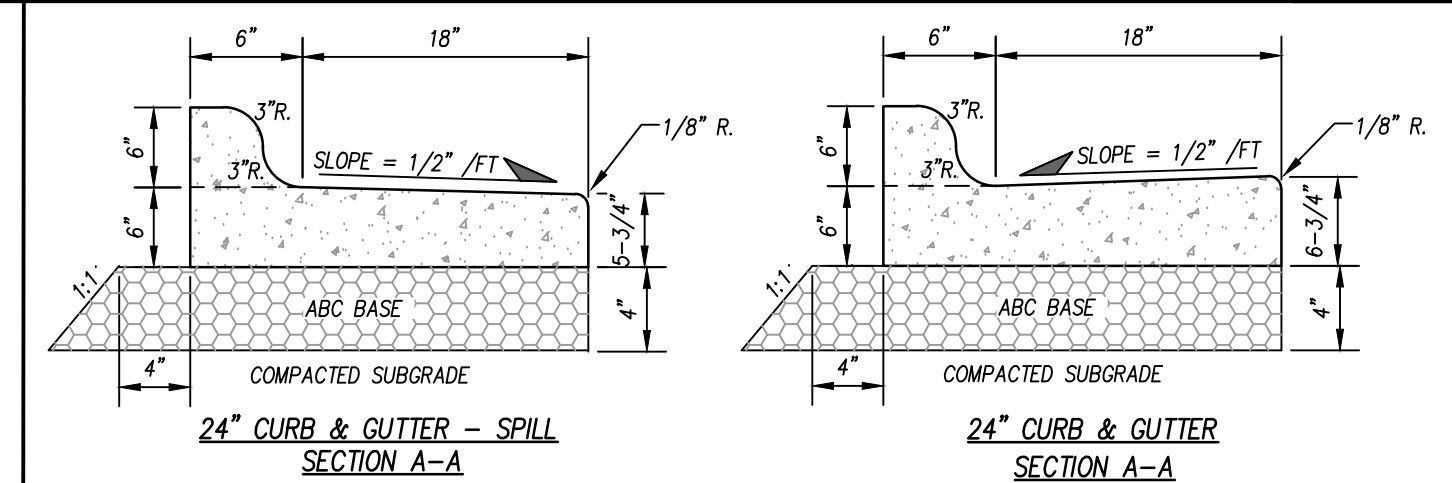
CONCRETE PAVEMENT DIMENSIONS

CONC SLAB THICKNESS, C	7-IN
ABC THICKNESS, A	4-IN
DOWEL DIAMETER	SEE SPECS



- NOTES:**
1. ALL CONCRETE SHALL BE OF NC DOT TYPE AA PORTLAND CEMENT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI (ASTM C19).
 2. CONTRACTION JOINTS SHALL BE PLACED PER SPECIFICATION 32 13 13.
 3. ISOLATION JOINTS SHALL BE PLACED WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.
 4. JOINTS IN CURB & GUTTER SHALL BE ALIGNED WITH JOINTS IN ADJOINING CONCRETE PAVEMENT.
 5. JOINTING PLAN DEVELOPED BY CONTRACTOR IN ACCORDANCE WITH ACI-330R-08 SHALL BE APPROVED BY SITE DESIGN ENGINEER PRIOR TO POURING SLAB.

CONCRETE PAVEMENT N.T.S.

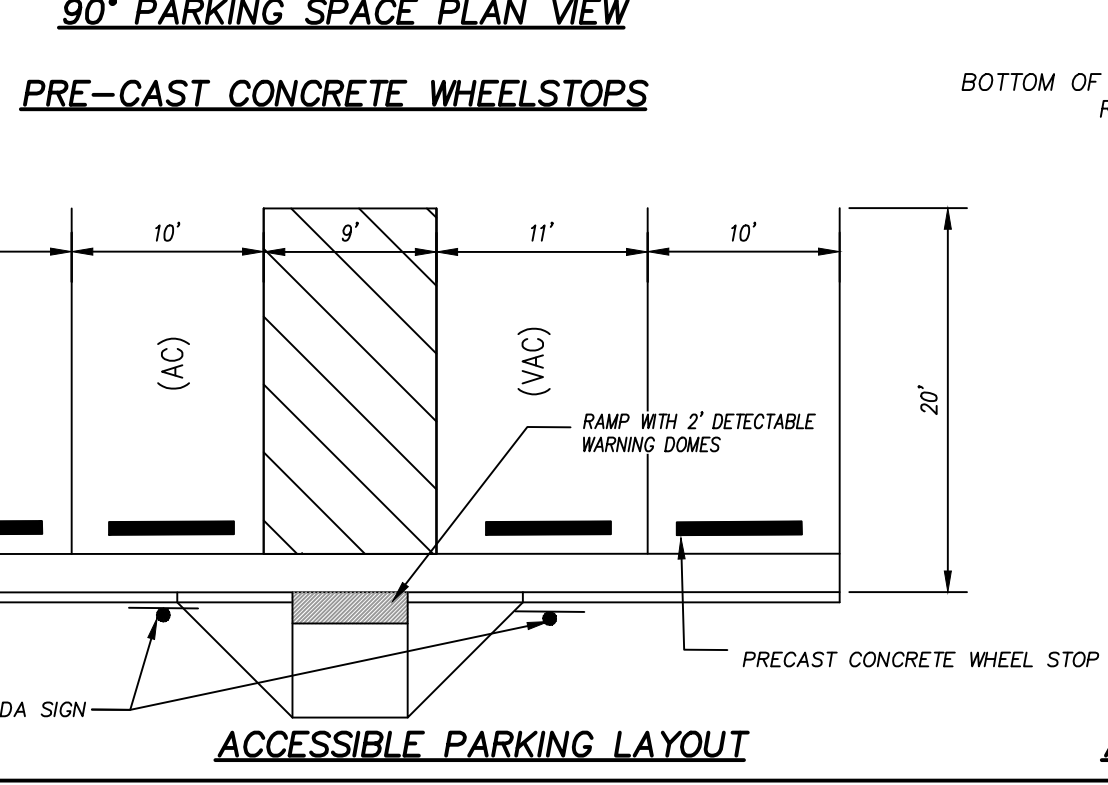
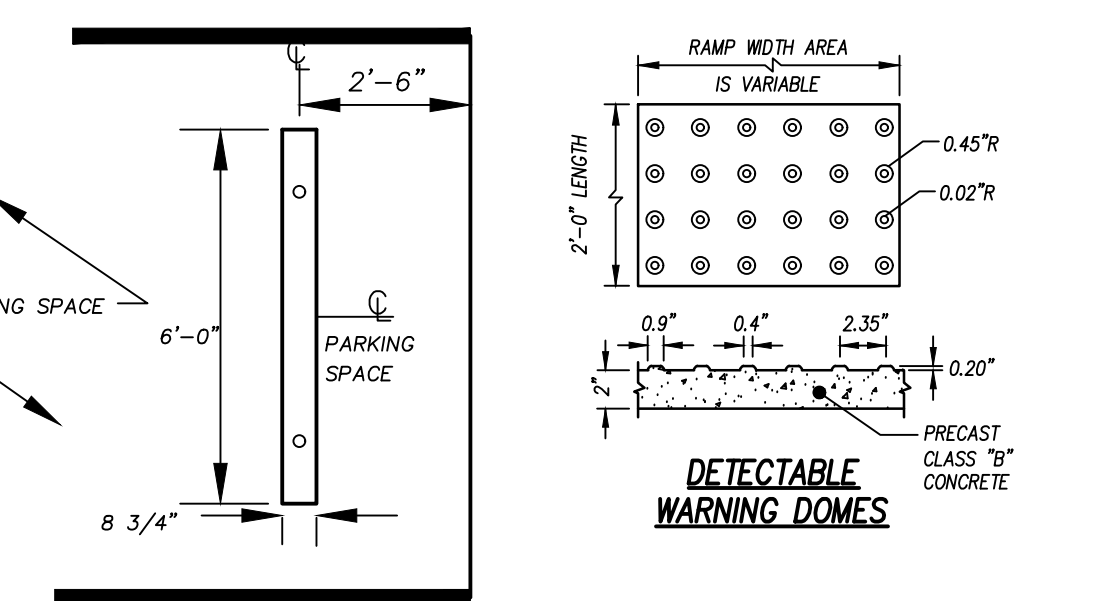
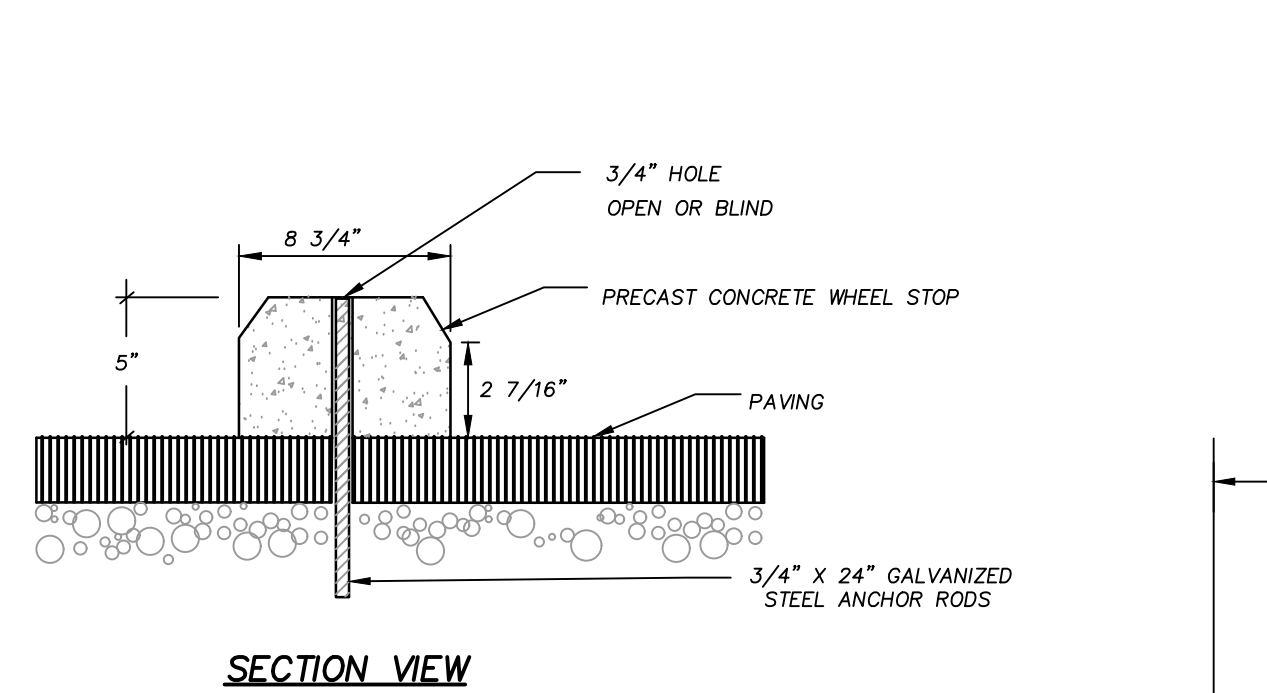
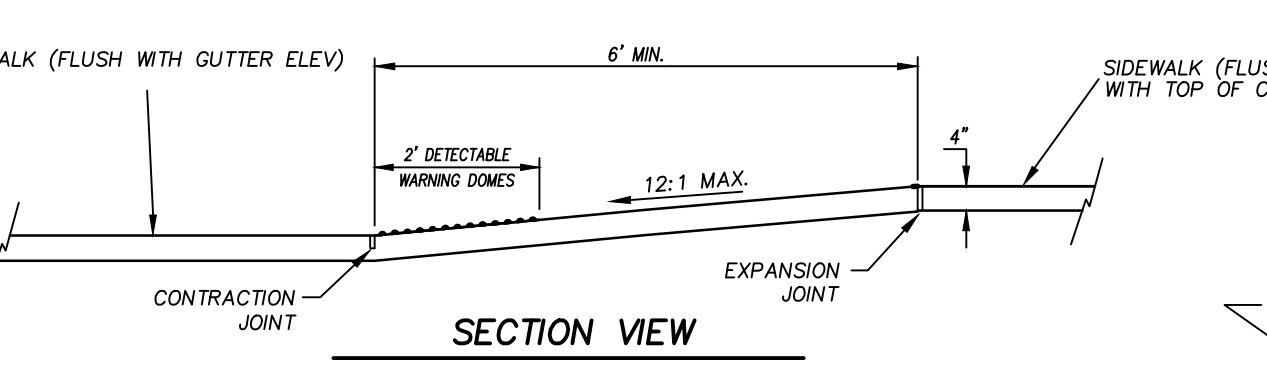


CONCRETE SIDEWALK N.T.S.

- CURB AND GUTTER NOTES:**
1. ALL CONCRETE SHALL BE 4,000 P.S.I. @ 28 DAYS
 2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, SPACING MAY BE INCREASED TO 15' IF MACHINE IS USED.
 3. CONTRACTION JOINTS SHALL BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-1/2" SHALL BE OBTAINED.
 4. EXPANSION JOINTS SHALL BE SPACED AT 90' MAX INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
 5. ALL JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER.
 6. SEE SPECIFICATION SECTION 32.13.13 FOR ADDITIONAL INFORMATION

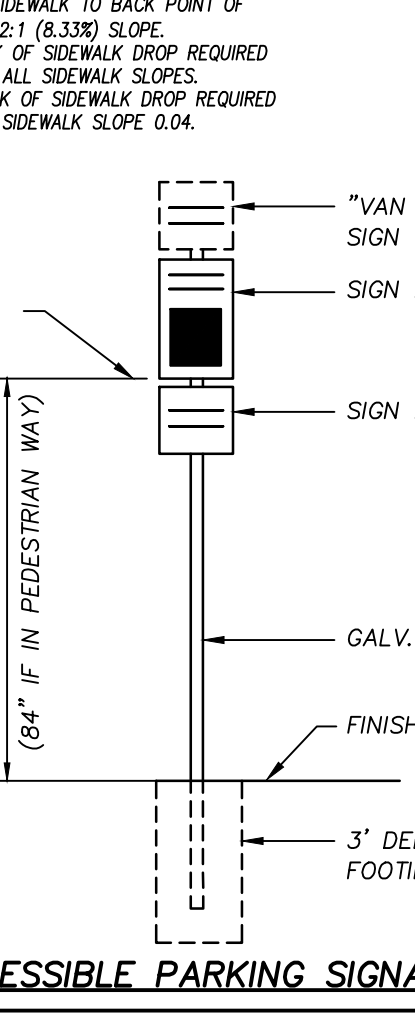
- GENERAL NOTES:**
1. A GROOVE JOINT 1" DEEP WITH 1/8" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT INTERVALS THE WIDTH OF THE SIDEWALK UNLESS INDICATED OTHERWISE. SEE SPECS FOR ADDITIONAL JOINT SPACING REQUIREMENTS.
 2. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS.
 3. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
 4. ALL CONCRETE SHALL BE 3,000 P.S.I.

1-FT CONCRETE BAND N.T.S.



ACCESSIBLE PARKING N.T.S.

W	A	W/A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0"
6'	0.0'	6.8'	6.8'	6.0"
7'	0.0'	7.8'	7.3'	6.5"
8'	0.0'	8.8'	7.5'	6.5"
5'	2.0'	7.8'	7.8'	5.0"
5'	2.5'	8.3'	8.1'	4.8"
5'	3.0'	8.8'	8.2'	4.4"
5'	3.5'	9.3'	8.4'	4.1"
5'	4.0'	9.8'	8.6'	3.8"
5'	4.5'	10.3'	8.7'	3.4"
5'	5.0'	10.8'	8.9'	3.1"

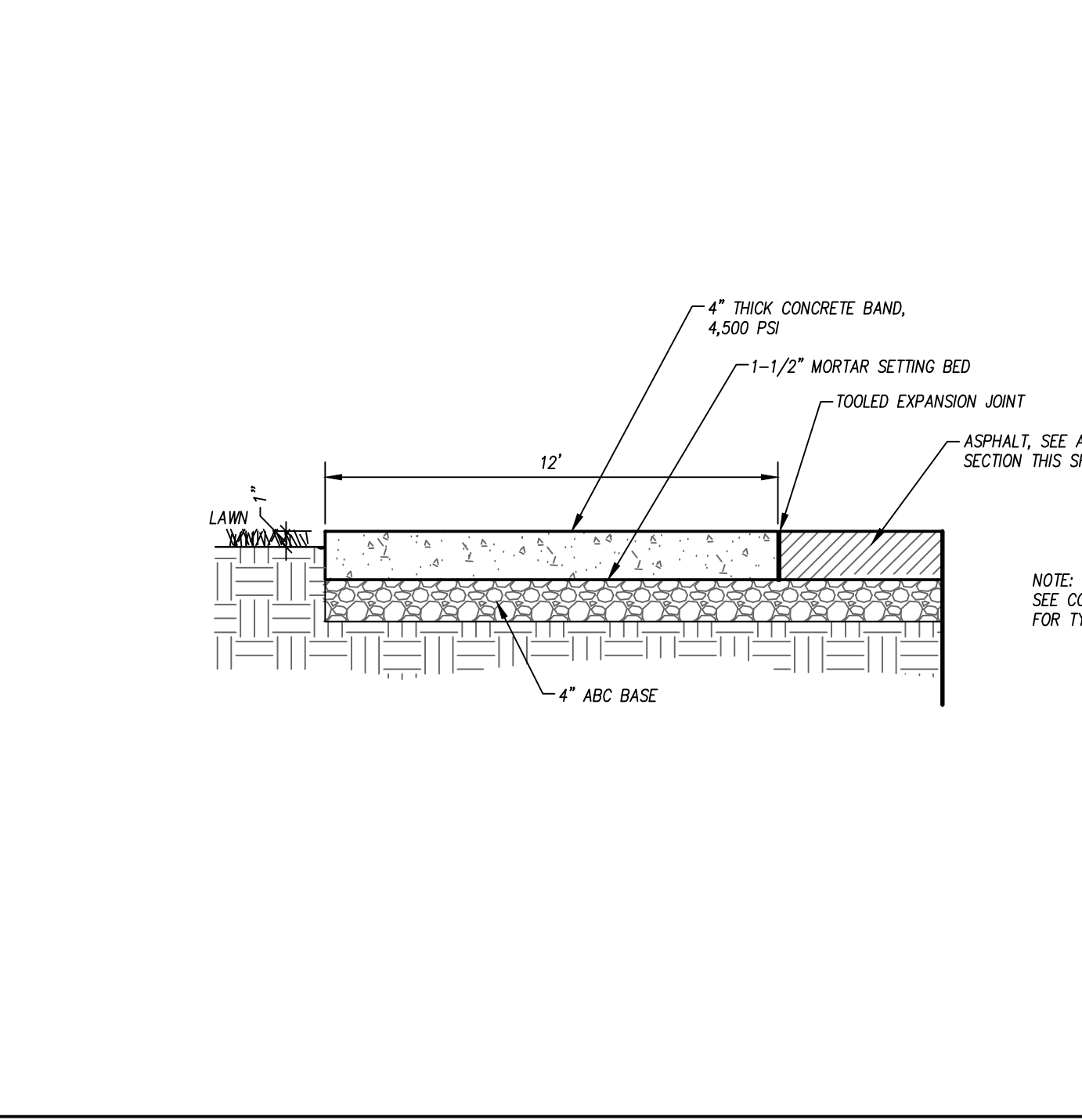


ACCESSIBLE PARKING SIGNAGE N.T.S.

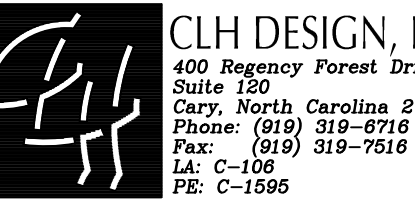
- NOTES:**
1. DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. THE RAMP MAY BE YELLOW IN COLOR OR ANY COLOR WITH A 70% CONTRAST RATIO.
 3. REFER TO NC DOT STANDARD DETAIL 848005 FOR ADDITIONAL INFORMATION.
 4. RAMP SHALL HAVE BRUSHED SLIP RESISTANT SURFACE.
 5. ALL CONCRETE SHALL BE 3,000 P.S.I. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS.

ALL SIGNS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SPECIFICATIONS AND REQUIREMENTS

NOTE: MAXIMUM PENALTY (\$250) IS ESTABLISHED BY LEGISLATURE VIA GENERAL STATUTE 20-37.6



1-FT CONCRETE BAND N.T.S.



PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY

SEALS



DKA JOB NUMBER
2324

REVISIONS

NO.	DATE	DESCRIPTION

PA: ZP
PM: YA
Drawn By: SL/SH
Plot Date: 03/12/2025

DATE ISSUED

BID DOCUMENTS

03/12/2025

SHEET TITLE
STAKING DETAILS

C800

SEEDBED PREPARATION

- CHISEL ALL OUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8".
- DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF WELL SCREENED TOPSOIL. ON-SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL-SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE WITH SPECIFICATION SECTION 32900.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.
- SEED AT RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVER.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSSED AREAS TO BECOME EXCESSIVELY DRY.
- INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NEEDED.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.

LIME & FERTILIZATION SCHEDULE

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 2 TONS/ACRE GROUND AGRICULTURAL LIMESTONE (3 TONS/ACRE IN CLAY SOILS) AND A MINIMUM 500 LB/ACRE 10-10-10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION. CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

SURFACE STABILIZATION REQUIREMENTS

- DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
- FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- USE EXCELSDOR MATTING OR OTHER APPROVED CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS.
- APPLY 4000 LB/ACRE (2 TONS LB/AC) GRAM STRAW OVER SEEDED AREAS AND ANCHOR STRAW GRIPPING WITH HAND OR MECHANICAL COMPRESSOR. MAX. SPACING, ASPHALT TACKING OR OTHER APPROVED METHOD. ASPHALT TACKING SHALL BE 400 GAL/ACRE (9 GAL/1000 SF).
- MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.

PERMANENT SEEDING SCHEDULE-- BERMUDA SEED

DATE	TYPE	PLANTING RATE
APR 15 - JULY 15 **	HULLED SUNSTAR OR RIVERA BERMUDA	85 LBS/ACRE *
JULY 15 - AUG 15	SUNSTAR OR RIVERA BERMUDA SPRIGS	5 BUSHELS/1,000 SF
AUG 15 - APR 15	TEMPORARY SEEDING APPLIES**	

* OR AS REQUIRED TO ACHIEVE 95% COVERAGE AS DETERMINED ON A PER SQUARE YARD BASIS PRIOR TO SUBSTANTIAL COMPLETION.
 ** WHEN SEEDING MUST TAKE PLACE OUT-OF-SEASON FOR PERMANENT GRASS, APPROPRIATE TEMPORARY SEEDING SHALL BE DONE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMANENT SEEDING AS SPECIFIED IN SEASON AT NO ADDITIONAL COST TO OWNER.

LAWN MAINTENANCE NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE UNTIL FINAL COMPLETION.
- LAWN MUST BE AT 95% COVERAGE AT SUBSTANTIAL COMPLETION REVIEW TO BE ACCEPTED.
- IF NOT AT 95% SUBSTANTIAL COMPLETION WILL BE DELAYED UNTIL THE FOLLOWING GROWING SEASON.

PLANTING BEDS DETAIL N.T.S.

MULCH BED
4" TRENCH
GRASS
TO BE APPLIED TO ALL PLANTING BEDS

SOD INSTALLATION DETAIL N.T.S.

REMOVE SOD NETTING PRIOR TO INSTALLATION.
TIGHT BEVELED JOINTS
AMENDED SOIL
SOD
SIDEWALK, CURB OR MOW STRIP

TREE PLANTING DETAIL N.T.S.

ARBORTAPE OR 3/4" WOVEN BELT SYNTHETIC FABRIC STRAP, GREEN.
FLUORESCENT SAFETY FLAGGING
2" x 2" STAKE
EDGE OF HOLE STAKES IN SOLID GROUND ONLY
GUYING PLAN

DO NOT PRUNE OR CUT LEADER. SEE SPECIFICATIONS SECTION 32900 FOR DETAILS.

ONLY STAKE TREES ON SLOPES 3:1 OR GREATER OR IN HIGH WIND CONDITIONS. ORIENT TREES AS THEY WERE IN THE FIELD. REMOVE ALL TREE WRAPPING AFTER INSTALLATION.

ARBORTAPE OR 3/4" WOVEN BELT SYNTHETIC FABRIC STRAP, GREEN.
FLUORESCENT SAFETY FLAGGING
2" x 2" STAKE 48" MIN. ABOVE GRADE
TOP OF ROOT BALL AT FINISHED GRADE. REMOVE BURLAP AND TWINE FROM TOP 1/3 OF ROOT BALL.
4" MULCH
6" EARTH SAUCER
2" x 2" STAKE 24" MIN. BELOW GRADE
FINISHED GRADE
PREPARED & MULCHED PLANT BED OR PREPARED LAWN AREA
SOIL BACKFILL MIXTURE
1 PART GROUND PINE BARK TO 6 PARTS SOIL WITH 8-8-8 FERT. MIXED IN AT 1 LB/100 S.F.
REMOVE TOP 2/3 OF WIRE BASKET WHERE PRESENT. REMOVE FROM PIT
ROOT BALL x 2
MAKE HOLE 1' WIDER ON ALL SIDES THAN ROOT BALL DIAMETER

VINYL COATED CHAIN LINK FENCE AND GATE N.T.S.

VARIES SEE STAKING PLAN
2 1/2"
POST TOP
LATCH POST
BLACK VINYL COATED CHAIN LINK FABRIC
FULCRUM LATCH W/ STRIKE STRAP
2" SQ GATE FRAME (TYP 4 SIDES)
TENSION BAR (TYP 4 SIDES)
ALL JOINTS WELDED TO MAKE A SOLID FRAME
MIN. DEPTH WIDTH IN: 36" (4) x POST WIDTH

4'-0" & 5'-0" GATE ELEVATION
2.875" OD HINGE POST
1"
VARIES SEE STAKING PLAN
2 1/2"
POST TOP
LATCH POST
BLACK VINYL COATED CHAIN LINK FABRIC
FULCRUM LATCH W/ STRIKE STRAP
2" SQ GATE FRAME (TYP 4 SIDES)
TENSION BAR (TYP 4 SIDES)
ALL JOINTS WELDED TO MAKE A SOLID FRAME
MIN. DEPTH WIDTH IN: 36" (4) x POST WIDTH

8'-0" AND 12'-0" GATE ELEVATION
2 1/2"
POST TOP
LATCH POST
BLACK VINYL COATED CHAIN LINK FABRIC
FULCRUM LATCH W/ STRIKE STRAP
2" SQ GATE FRAME (TYP 4 SIDES)
TENSION BAR (TYP 4 SIDES)
ALL JOINTS WELDED TO MAKE A SOLID FRAME
MIN. DEPTH WIDTH IN: 36" (4) x POST WIDTH

END & CORNER POST TOP
DOME
TOP & BOTTOM FABRIC
MINOR
MIN. DEPTH WIDTH IN: 36" (4) x POST WIDTH

BOLTS ON ALL FENCE SHALL BE CUT FLUSH WITH NUT. NO SHARP PROTRUDING EDGES ARE ALLOWED IN DIRECTION OF CHILD PLAY AREA. SEE SPECS FOR ADDITIONAL INFORMATION. PROVIDE BOTTOM TENSION WIRE FOR ALL PERIMETER AND BMP FENCING.

TYPICAL SHRUB PLANTING DETAIL N.T.S.

4" MULCH
4" EARTH SAUCER
FINISHED GRADE

TOP OF ROOT BALL AT FINISHED GRADE. REMOVE BURLAP AND TWINE FROM TOP 1/3 OF ROOT BALL. REMOVE CONTAINER.

SOIL BACKFILL MIXTURE
1 PART GROUND PINE BARK TO 6 PARTS SOIL WITH 8-8-8 FERT. MIXED IN AT 1 LB/100 S.F.
MAKE HOLE 12" WIDER ON ALL SIDES THAN ROOT BALL DIAMETER

NOTE: PLANT PITS ONLY FOR SINGLE PLANTS. FOR OTHER PLANTING PREPARE THE ENTIRE BED AREA.

LANDSCAPE NOTES

- LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
- VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
- ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERMEN AND THE WRITTEN SPECIFICATIONS.
- ALL PLANT MATERIAL (SHRUBS/TREES) SHALL BE A MINIMUM DISTANCE OF 4-1/2 FEET FROM BACK OF CURB, EXCEPT ALONG ANY NEW WALLS ADJACENT TO PARKING WHERE CURB STOPS WILL BE USED.
- ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. 3-IN DEPTH OF TRIPLE SHREDED HARDWOOD MULCH SHALL BE USED AROUND ALL PLANTINGS. CONFORM WITH LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
- ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
- DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS, (I.E. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS). SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
- CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
 9.1. REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION.
 9.2. REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
 9.3. ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
 9.4. ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
- THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
- LANDSCAPE SUB-CONTRACTOR (UNDER GC CONTRACT) SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AND LAWN/SOD AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL COMPLETION. PLANT MATERIALS OR AREAS OF GRASS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL WATERING INFORMATION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM SEEDING/SOD AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE RE-GRADED AND RE-SEEDING IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT FINAL COMPLETION.
- SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTITUTED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
- LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING. IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL SEEDING, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
- GENERAL LAWN AREAS SHALL BE SEEDING WITH RIVERA OR SUNSTAR BERMUDA SEED. SOD AREAS SHALL BE TIF-TUF BERMUDA 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SEE PLANTING PLAN FOR LAWN. ALL 3:1 SLOPES OR GREATER SHALL RECEIVE EROSION CONTROL MATTING. REFER TO PLANTING PLANS FOR STABILIZATION REQUIREMENTS.
- ALL FOUNDATION SHRUBS TO BE PLANTED A MINIMUM OF 5'-FT FROM BUILDING WALL. ALL SHADE TREES SHALL BE A MINIMUM DISTANCE OF 15'-FT FROM BUILDING ROOF EDGE TO CENTER OF TREE. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
- INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. SEE EROSION CONTROL PLANS AND PERMANENT SEEDING SCHEDULE FOR ADDITIONAL INFORMATION.

SEEDING INFORMATION N.T.S.

TEMPORARY SEEDING SCHEDULE (JUNE 1-FEB 28 NO MOW AREAS & EROSION CONTROL PHASE)

DATE	TYPE	PLANTING RATE
AUG 15 - APR 15	3-WAY TALL FESCUE BLEND AND WINTER RYE (GRAIN)	125 LBS/ACRE 25 LBS/ACRE
APR 15 - AUG 15	3-WAY TALL FESCUE BLEND AND GERMAN MILLET *** OR SUDANGRASS (SMALL-STEMMED VAR.) ***	120 LBS/ACRE 25 LBS/ACRE 30 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENIED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

*** TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

REFORESTATION SCHEDULE -- (SEEDLINGS)

DATE: MAR 1-JUNE 1
OCT 1-DEC 1

SEEDLINGS TO BE PLACED AT RANDOM. SPACING AT MIN 5' MAX 10' TO BE PLACED IN AREAS ONLY AS INDICATED ON LANDSCAPE SHEETS. ALL SEEDLINGS SHALL BE TRANSPORTED, STORED AND PLANTED FOLLOWING THE STANDARDS OF THE NORTH CAROLINA FOREST SERVICE TREE PLANTING HANDBOOK, 8TH EDITION 2016. SEEDLINGS SHALL BE PLANTED ON A "SATISFACTORY DAY AS BROADCAST BY THE NORTH CAROLINA FOREST SERVICE.

PLANTING RATE
450 SEEDLING/ACRE

PER/ACRE	PER/ACRE	LOBLOLLY PINE
30%	PINUS TAEDA	BLACK GUM
20%	NYSSA SYLVATICA	WHITE OAK
10%	QUERCUS ALBA PIEDMONT	NORTHERN RED OAK
10%	QUERCUS RUBRA PIEDMONT	WHITE ASH
20%	FRAXINUS AMERICANA	TULIP TREE
10%	LIRIODENDRON TULIPIFERA	

***PROVIDE INVOICE TO LANDSCAPE ARCHITECT UPON PLANTING

SEEDLING SOURCE
NORTH CAROLINA FOREST SERVICE OR EQUAL

REFORESTATION MIX N.T.S.

STEEL BOLLARD N.T.S.

5-IN. SCH-40 (5.56-IN O.D.) STEEL PIPE, CONC. FILLED
SLIGHTLY DOME TOP OF CONCRETE FILL
COLOR TO BE SELECTED BY ARCHITECT.
EXPANSION JOINT BETWEEN BOLLARD AND PAVEMENT
ANCHOR PIPE IN CONCRETE FOOTING (3000 PSI)
PAVING
COMPACTED SUBGRADE

SEEDING INFORMATION N.T.S.

TYPICAL SHRUB PLANTING DETAIL N.T.S.

VINYL COATED CHAIN LINK FENCE AND GATE N.T.S.

PLANTING BEDS DETAIL N.T.S.

SOD INSTALLATION DETAIL N.T.S.

LANDSCAPE NOTES

SEEDING INFORMATION N.T.S.

TEMPORARY SEEDING SCHEDULE (JUNE 1-FEB 28 NO MOW AREAS & EROSION CONTROL PHASE)

DATE	TYPE	PLANTING RATE
AUG 15 - APR 15	3-WAY TALL FESCUE BLEND AND WINTER RYE (GRAIN)	125 LBS/ACRE 25 LBS/ACRE
APR 15 - AUG 15	3-WAY TALL FESCUE BLEND AND GERMAN MILLET *** OR SUDANGRASS (SMALL-STEMMED VAR.) ***	120 LBS/ACRE 25 LBS/ACRE 30 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENIED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

*** TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

TEST PRESSURE = 150 PSI

PIPE SIZE	TYPE FITTING	DIMENSIONS (FT)	VOLUME CONCRETE CU. YD.
4" INCHES	11 1/4"	1.00 1.00 1.00	0.06
4" INCHES	22 1/2"	1.00 1.00 1.00	0.06
4" INCHES	45"	1.00 1.00 1.00	0.06
4" INCHES	90"	1.00 1.00 1.00	0.09
4" INCHES	TEE	1.00 1.00 2.00	0.07
6" INCHES	11 1/4"	1.00 1.00 2.00	0.09
6" INCHES	22 1/2"	1.00 1.00 2.00	0.09
6" INCHES	45"	1.00 1.00 2.00	0.15
6" INCHES	90"	1.00 1.00 2.00	0.15
6" INCHES	TEE	1.00 1.00 2.00	0.12
8" INCHES	11 1/4"	1.50 1.50 2.50	0.15
8" INCHES	22 1/2"	1.50 1.50 2.50	0.15
8" INCHES	45"	1.50 1.50 2.50	0.15
8" INCHES	90"	1.50 1.50 2.50	0.28
8" INCHES	TEE	1.50 1.50 2.50	0.28
10" INCHES	11 1/4"	2.00 2.00 3.00	0.23
10" INCHES	22 1/2"	2.00 2.00 3.00	0.23
10" INCHES	45"	2.00 2.00 3.00	0.23
10" INCHES	90"	2.00 2.00 3.00	0.39
10" INCHES	TEE	2.00 2.00 3.00	0.28
16" INCHES	11 1/4"	2.00 2.00 3.00	0.28
16" INCHES	22 1/2"	2.00 2.00 3.00	0.28
16" INCHES	45"	2.00 2.00 3.00	0.39
16" INCHES	90"	2.00 2.00 3.00	0.84
16" INCHES	TEE	2.00 2.00 3.00	0.39

TEST PRESSURE = 200 PSI

PIPE SIZE	TYPE FITTING	DIMENSIONS (FT)	VOLUME CONCRETE CU. YD.
4" INCHES	11 1/4"	1.00 1.00 1.00	0.04
4" INCHES	22 1/2"	1.00 1.00 1.00	0.06
4" INCHES	45"	1.00 1.00 1.00	0.06
4" INCHES	90"	1.00 1.00 1.00	0.15
4" INCHES	TEE	1.00 1.00 2.00	0.12
6" INCHES	11 1/4"	1.00 1.00 2.00	0.09
6" INCHES	22 1/2"	1.00 1.00 2.00	0.09
6" INCHES	45"	1.00 1.00 2.00	0.15
6" INCHES	90"	1.00 1.00 2.00	0.15
6" INCHES	TEE	1.00 1.00 2.00	0.12
8" INCHES	11 1/4"	1.50 1.50 2.50	0.15
8" INCHES	22 1/2"	1.50 1.50 2.50	0.15
8" INCHES	45"	1.50 1.50 2.50	0.15
8" INCHES	90"	1.50 1.50 2.50	0.28
8" INCHES	TEE	1.50 1.50 2.50	0.28
10" INCHES	11 1/4"	2.00 2.00 3.00	0.23
10" INCHES	22 1/2"	2.00 2.00 3.00	0.23
10" INCHES	45"	2.00 2.00 3.00	0.23
10" INCHES	90"	2.00 2.00 3.00	0.39
10" INCHES	TEE	2.00 2.00 3.00	0.28
16" INCHES	11 1/4"	2.00 2.00 3.00	0.28
16" INCHES	22 1/2"	2.00 2.00 3.00	0.28
16" INCHES	45"	2.00 2.00 3.00	0.39
16" INCHES	90"	2.00 2.00 3.00	0.84
16" INCHES	TEE	2.00 2.00 3.00	0.39

CHART NOTES:
1. IF BLOCKING EXCAVATION IS IN LIGHTLY COMPACTED FILL AREAS, OR IN AREAS WHERE BOLLIDERS OR STUMPS HAVE BEEN REMOVED, BLOCKING SIZE MUST BE RE-SIZED FOR THE SPECIFIC LOCATION/CIRCUMSTANCE BY A NC LICENSED PROFESSIONAL ENGINEER.
2. BLOCKING SIZES SHOWN IN THESE TABLES ASSUME THE FOLLOWING:
a. BLOCKING IS CONSTRUCTED IN RESIDUAL SOILS AS SHOWN IN DETAIL.
b. SOIL BEARING CAPACITY = 2000 PSF
c. VELOCITY OF FLOW = 15 FPS
3. THIS DETAIL NOT APPLICABLE TO REDUCING BENDS.
4. NEITHER THE WEIGHT OF THE CONCRETE BLOCKING NOR FRICTION BETWEEN CONCRETE BLOCKING AND SOIL WAS ADDED INTO BLOCKING SIZES COMPUTATION. THEREFORE, BLOCKING SIZE IS CONSERVATIVE.

ONSLOW WATER & SEWER AUTHORITY
USE WITH "ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision"

THRUST BLOCKING

SCALE: Not To Scale
REVISION DATE: May, 2016
SHEET #: 1 of 4

SECTION A-A

NOTES:
1. CONCRETE BLOCKING IS TO BE FORMED TO ENSURE ACCESSIBILITY TO FITTINGS AND POURED AGAINST UNDISTURBED EARTH.
2. ALL FITTINGS SHALL BE WRAPPED IN POLYETHYLENE TO PREVENT CONCRETE FROM CONTACTING FITTINGS, BOLTS, OR ENDS OF MECHANICAL JOINT BENDS.
3. CONCRETE TO BE MINIMUM 3,000 PSI @ 28 DAYS.
4. WHEN SACKRETE IS TO BE USED, IT SHALL BE PROPERLY MIXED PER MANUFACTURER SPECIFICATIONS.
5. FOR REQUIRED DIMENSIONS, SEE WS_TB2.

ONSLOW WATER & SEWER AUTHORITY
USE WITH "ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision"

INLINE VALVE DETAIL

SCALE: Not To Scale
REVISION DATE: May, 2016
SHEET #: 1 of 1

FINISHED GRADE

36" MIN. COVER

TAMPED BACKFILL

CAST IRON VALVE BOX

CAST IRON GATE VALVE

STANDARD MJ GLANDS
NOTE: RESTRAINT GLANDS MAY BE USED AS OPTION IF NEEDED

CONCRETE SUPPORT

ONSLOW WATER & SEWER AUTHORITY
USE WITH "ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision"

VALVE BOX INSTALLATION

SCALE: Not To Scale
REVISION DATE: May, 2016
SHEET #: 1 of 1

APPROVED METHOD FOR EXTENSION OF VALVE BOX

NOTE: CONCRETE VALVE COLLAR REQUIRED ON ALL VALVES.

COVER

DOMESTIC CASTING

PAVEMENT

VALVE BOX COVER

VALVE BOX

TAMPED BACKFILL

WATER MAIN

VALVE

TAMPED BACKFILL

CONCRETE SUPPORT

NOTE:
VALVE BOX SHALL BE PER ONWSA'S SPECIFICATIONS

ONSLOW WATER & SEWER AUTHORITY
USE WITH "ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision"

3/4" to 2" Meter RP Assembly with PRV Assembly

SCALE: Not To Scale
REVISION DATE: May, 2016
SHEET #: 1 of 1

GATE OR BALL VALVE IN BOX NEAR HOUSE (OPTIONAL)

NOT REQUIRED ON IRRIGATION LINE

PRESSURE REDUCING VALVE WITH STRAINER (WHEN REQUIRED BY NC PLUMBING CODE)

RELIEF VALVE

30" MAX. 12" MIN.

1/2 TURN FULL PORT BRONZE BALL SHUT-OFF VALVE #2

CHECK VALVE #2

CHECK VALVE #1

1/2 TURN FULL PORT BRONZE BALL SHUT-OFF VALVE #1

TEST COCK #1

STRAINER (OPTIONAL)

REMOVABLE INSULATED ENCLOSURE WITH DRAIN PORTS (1060 ASSE APPROVED) (REQUIRED)

ENSURE GRADE SLOPES AWAY FROM COVERS, BOXES, AND BACKFLOW ASSEMBLY

ALL PIPING SHALL BE PVC, COPPER, OR BRASS

GATE OR BALL VALVE IN BOX (REQUIRED)

CUSTOMER'S RESPONSIBILITY BEGINS

ONWSA'S RESPONSIBILITY STOPS HERE

METER BOX (ONWSA'S)

METER (ONWSA'S)

METER CUT-OFF (ONWSA'S)

REDUCED PRESSURE ASSEMBLY

ANCHOR BOLTS

TEE DOWNSTREAM

FROM ONWSA'S WATER MAIN

NOTES:
1. THE INSTALLER HAS THE OPTION TO INSTALL THE GATE OR BALL VALVES AND THE PRESSURE REDUCING VALVE IN BOXES OR IN THE OPEN. SUPPORTS SHOULD BE PROVIDED FOR THE ASSEMBLY. IT IS RECOMMENDED TO PROVIDE THE FOLLOWING INFORMATION DURING THE TESTING OR REMOVAL OF THE ASSEMBLY:
2. THAT THE GATE OR BALL VALVES AND THE PRESSURE REDUCING VALVE BE INSTALLED OUTSIDE THE ENCLOSURE.

ONSLOW WATER & SEWER AUTHORITY
USE WITH "ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision"

3/4" - 2" Meter RP Assembly with PRV Assembly

SCALE: Not To Scale
REVISION DATE: May, 2016
SHEET #: 1 of 1

EASEMENT OR PROPERTY LINE

MINIMUM 36" HORIZONTAL CLEARANCE FROM ANY OBJECT

FIRE HYDRANT, PUMPER NOZZLE W/STORZ ADAPTER TO BE POINTED PERPENDICULAR TO STREET

TRAFFIC FLANGE BETWEEN 2" - 6" MAX. BURY LINE

VALVE BOX

36"-42" MIN. UNLESS OTHERWISE SPECIFIED ON PLANS

6" GATE VALVE

DEPTH VARIES 3' MIN.

36" MIN.

6" MIN.

7 CU. FT. CRUSHED STONE MIN.

MIN. OF 3 CUBIC FEET OF CRUSHED STONE FOR DRAINAGE

CONC. SUPPORT

MJ 45° BENDS

1'-0" MAX. CONC. THRUST BLOCKING

CONC. THRUST BLOCK PLACED AGAINST UNDISTURBED EARTH

NOTES:
1. FIRE HYDRANT MANUFACTURER SHALL BE AS REQUIRED BY PROJECT SPECIFICATIONS.
2. FIRE HYDRANT SHALL BE INSTALLED USING HYDRANT TEE.
3. BRANCH PIPE SHALL BE DUCTILE IRON.
4. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION.
5. ALL JOINTS ON FIRE HYDRANT ASSEMBLIES SHALL BE RESTRAINED.
6. ALL FIRE HYDRANTS SHALL BE LOCATED WITHIN DEDICATED STREET RIGHT-OF-WAY OR A 20-FOOT PUBLICLY DEDICATED PERMANENT UTILITY EASEMENT TO ONWSA.
7. INSTALL BOLLARD GUARD POST AS PER DRAWINGS OR CONDITIONS MANDATE.
8. HYDRANT SHALL NOT BE INSTALLED SO THAT THE FINISHED ELEVATION OF SURROUNDING AREA (INCLUDING LANDSCAPING, MULCH, GRAVEL, ETC.) IS ABOVE THE MAXIMUM BURY LINE OF THE HYDRANT.
9. MAXIMUM PERMISSIBLE EXTENSION LENGTH IS 2-FEET.
10. IF HYDRANT LEG IS LESS THAN 10-FEET LONG, THE HYDRANT SHALL BE RODDED BACK TO THE VALVE.

ANYTIME SITE WORK, CONSTRUCTION, ROAD WORK, OR ANY OTHER WORK CHANGES THE GRADE OF THE FIRE HYDRANT, THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE FIRE HYDRANT TO STAY WITHIN COMPLIANCE.

ONSLOW WATER & SEWER AUTHORITY
USE WITH "ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision"

FIRE HYDRANT ASSEMBLY SHOULDER / DITCH SECTION

SCALE: Not To Scale
REVISION DATE: May, 2016
SHEET #: 1 of 1

TYPE 1
(NOTE 1)
FLAT BOTTOM TRENCH WITH LOOSE DIRT (FLAT BOTTOM IS DEFINED AS UNDISTURBED EARTH)

TYPE 2
FLAT BOTTOM TRENCH WITH BACKFILL LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE (FLAT BOTTOM IS DEFINED AS UNDISTURBED EARTH)

TYPE 3
PIPE BEDDED IN 4" MINIMUM LOOSE SOIL WITH BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE (LOOSE SOIL IS DEFINED AS NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, ORGANIC MATERIAL, FOREIGN MATERIALS AND FROZEN EARTH.)

TYPE 4
PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO A DEPTH OF 1/8 PIPE DIAMETER, 4" MINIMUM WITH BACKFILL COMPACTED TO TOP OF PIPE. (APPROXIMATELY 90 PERCENT STANDARD PROCTOR, AASHTO T-99)

TYPE 5
PIPE BEDDED IN COMPACTED GRANULAR MATERIAL, 4" MINIMUM UNDER PIPE. COMPACTED GRANULAR OR SELECT MATERIAL TO TOP OF PIPE. (APPROXIMATELY 90 PERCENT STANDARD PROCTOR, AASHTO T-99)

(SELECT MATERIAL IS DEFINED AS NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, ORGANIC MATERIAL, FOREIGN MATERIALS AND FROZEN EARTH)

NOTES:
1. FOR NORMAL PIPE SIZES 14 INCH AND LARGER, CONSIDERATION SHOULD BE GIVEN TO THE USE OF LAYING CONDITIONS OTHER THAN TYPE 1.
2. CONSIDERATION OF THE PIPE-ZONE EMBEDMENT CONDITIONS INCLUDED IN THIS FIGURE MAY BE INFLUENCED BY FACTORS OTHER THAN PIPE STRENGTH. FOR ADDITIONAL INFORMATION ON PIPE BEDDING AND BACKFILL, SEE ANS/AWWA C600.

ONSLOW WATER & SEWER AUTHORITY
USE WITH "ONWSA MANUAL OF SPECIFICATIONS, STANDARDS AND DETAILS, latest revision"

WATER MAIN EMBEDMENT DETAILS

SCALE: Not To Scale
REVISION DATE: May, 2016
SHEET #: 1 of 1

SECTION A-A

EQUAL

90°

30°

SEE NOTE 1

FOR ALL BEND FITTINGS

FOR TEE FITTING

WIDEN TRENCH TO ACCOMMODATE ANCHOR IF REQUIRED

TRENCH WIDTH

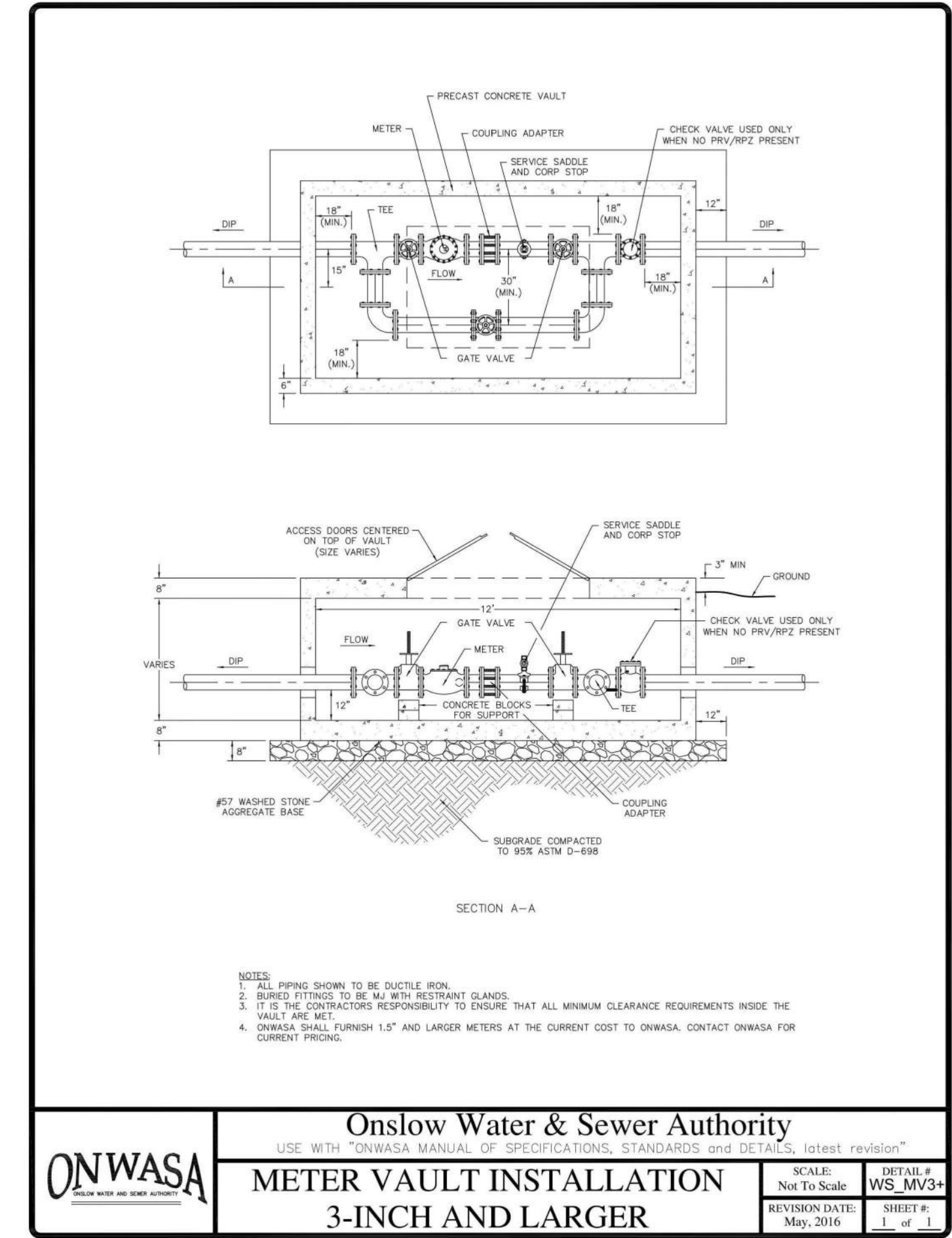
SEE REMAINING DETAILS

42" MIN.

3" MIN.

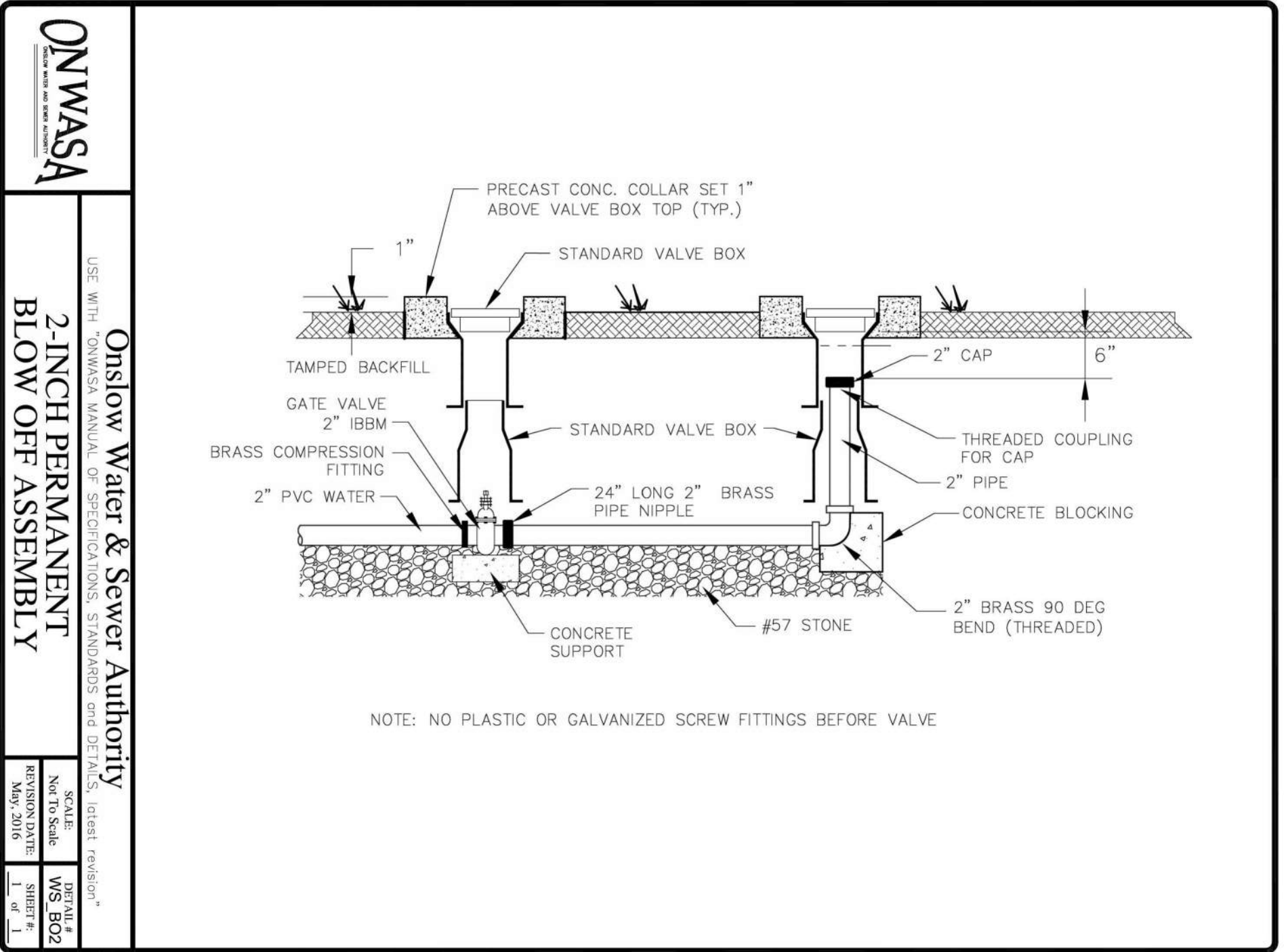
3" MIN.

UNDISTURBED EARTH



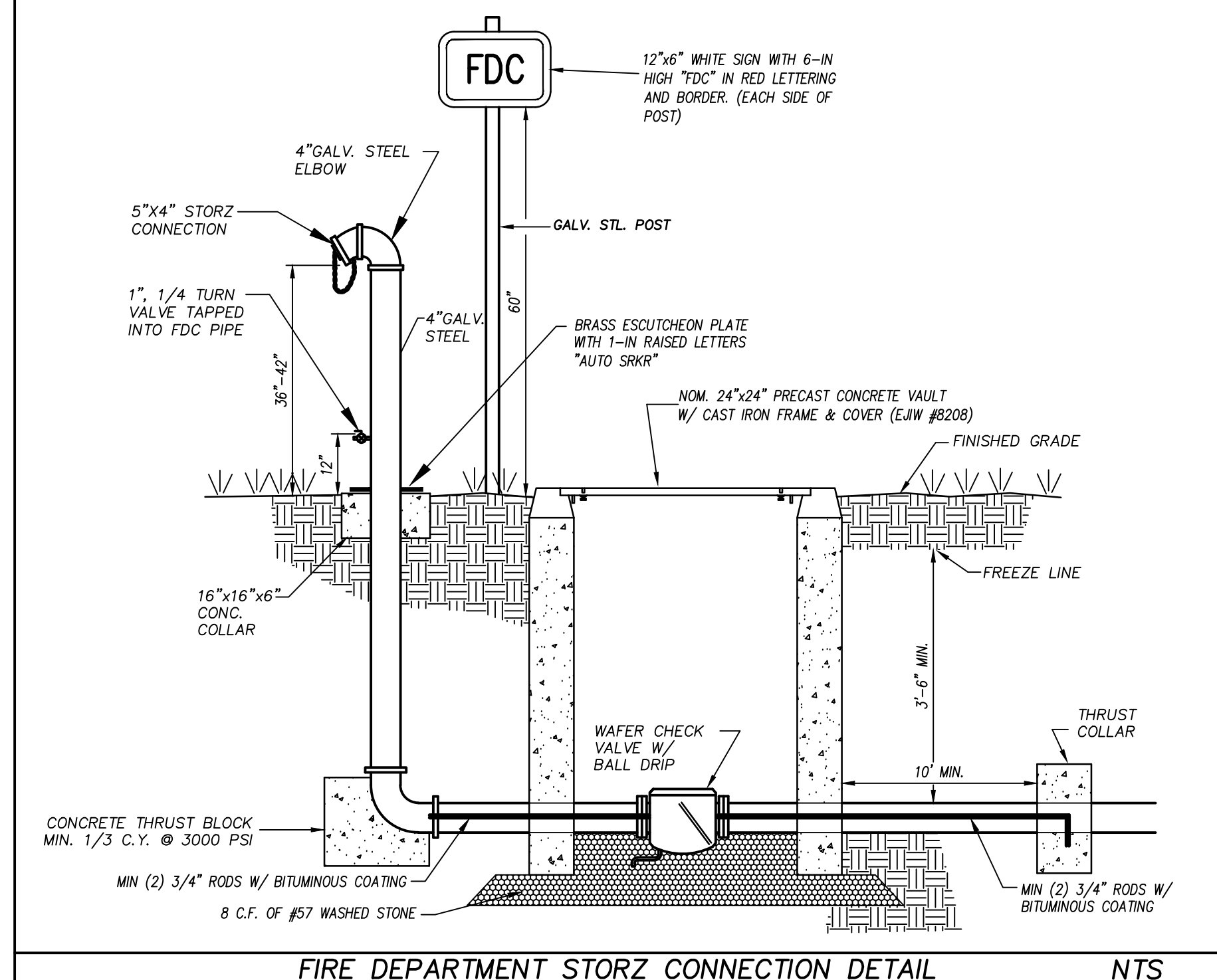
Onslow Water & Sewer Authority
 USE WITH "ONWASA MANUAL OF SPECIFICATIONS, STANDARDS and DETAILS, latest revision"
METER VAULT INSTALLATION
3-INCH AND LARGER

SCALE: Not To Scale	DETAIL # WS_MV3+
REVISION DATE: May, 2016	SHEET # 1 of 1

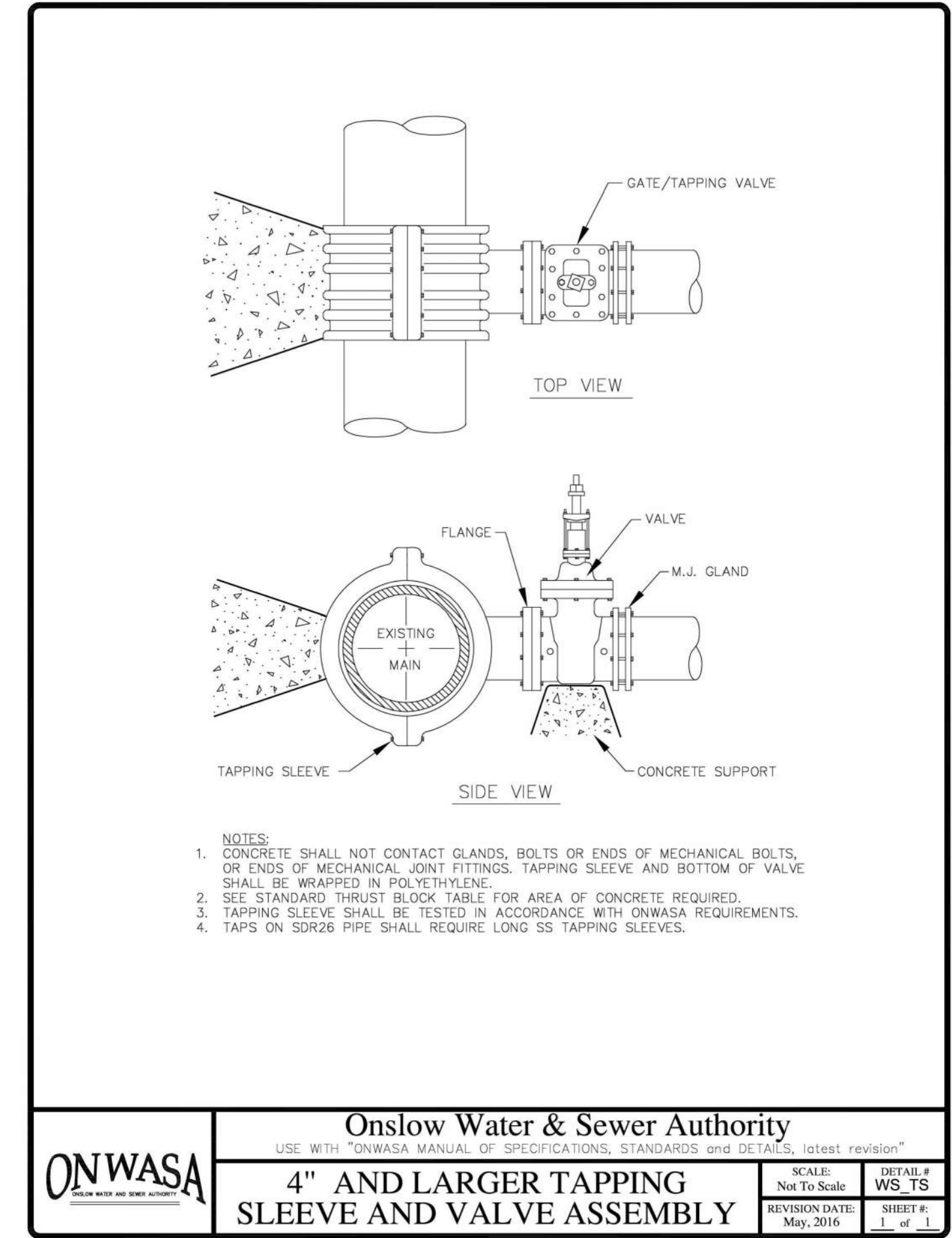


ONWASA
 USE WITH "ONWASA MANUAL OF SPECIFICATIONS, STANDARDS and DETAILS, latest revision"
2-INCH PERMANENT BLOW OFF ASSEMBLY

SCALE: Not To Scale	DETAIL # WS_BO2
REVISION DATE: May, 2016	SHEET # 1 of 1

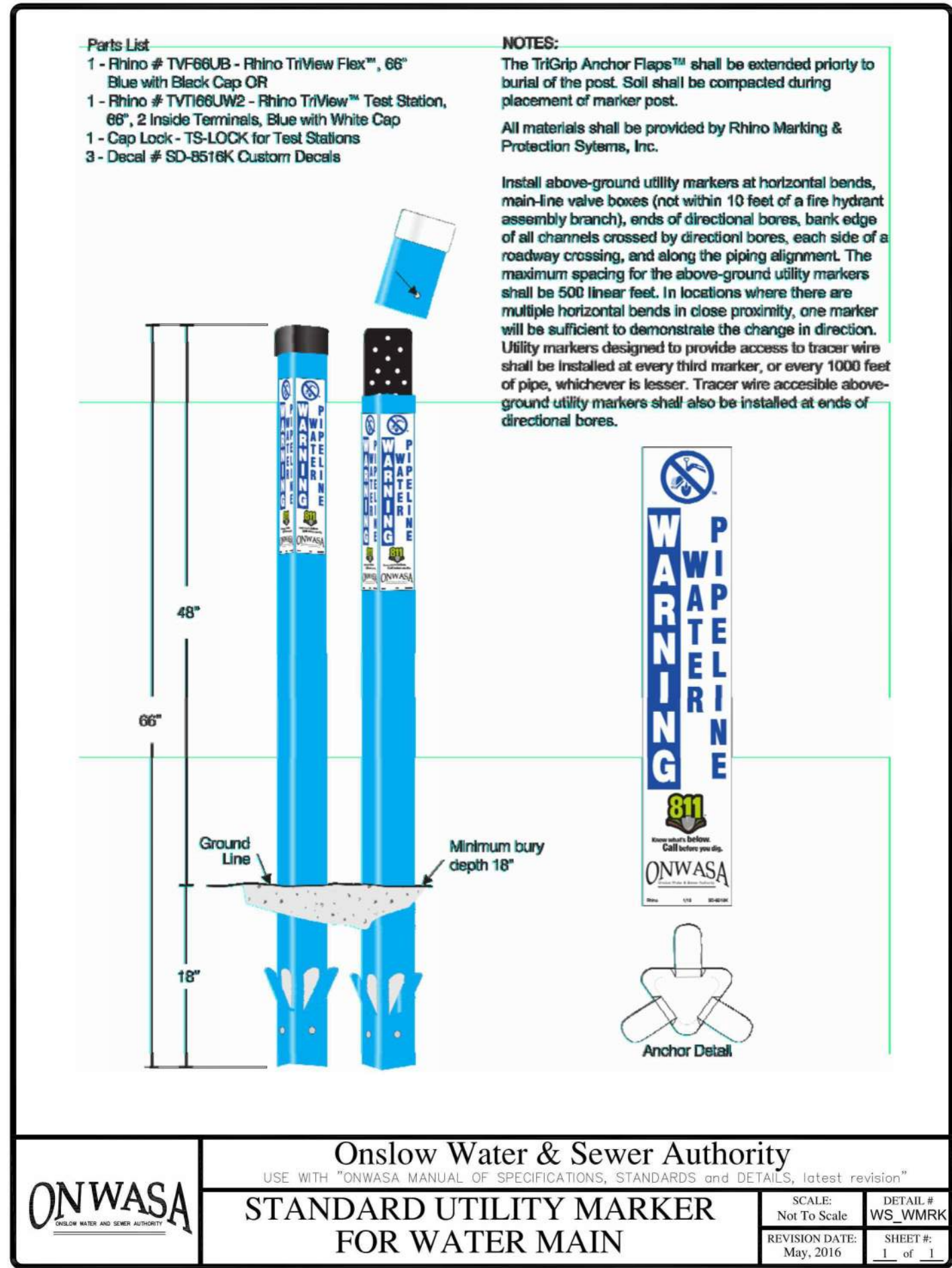


FIRE DEPARTMENT STORZ CONNECTION DETAIL NTS



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4\"/>

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REVISION DATE: May, 2016	SHEET # 1 of 1



Onslow Water & Sewer Authority
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STANDARD UTILITY MARKER FOR WATER MAIN

SCALE: Not To Scale	DETAIL # WS_WMRK
REVISION DATE: May, 2016	SHEET # 1 of 1

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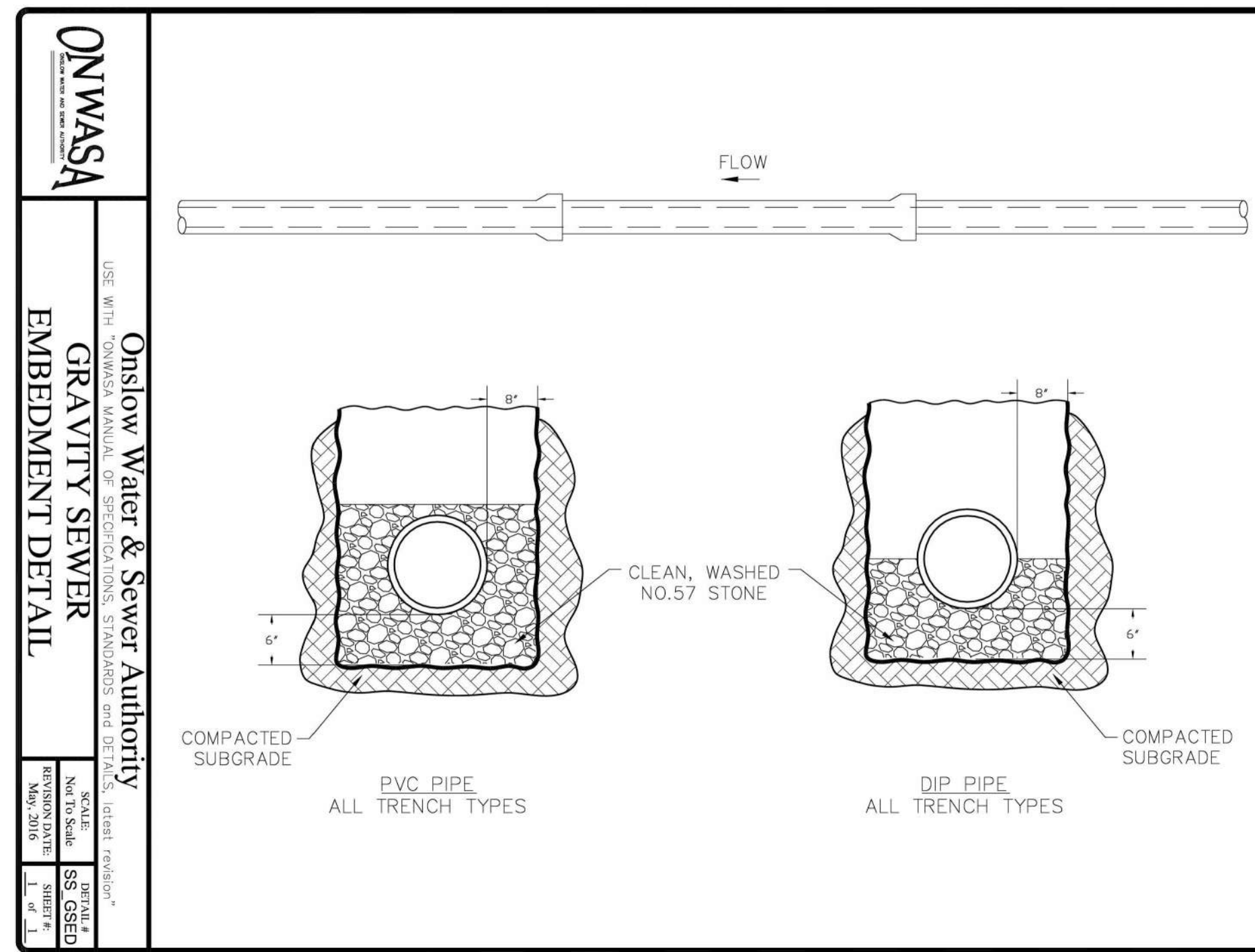
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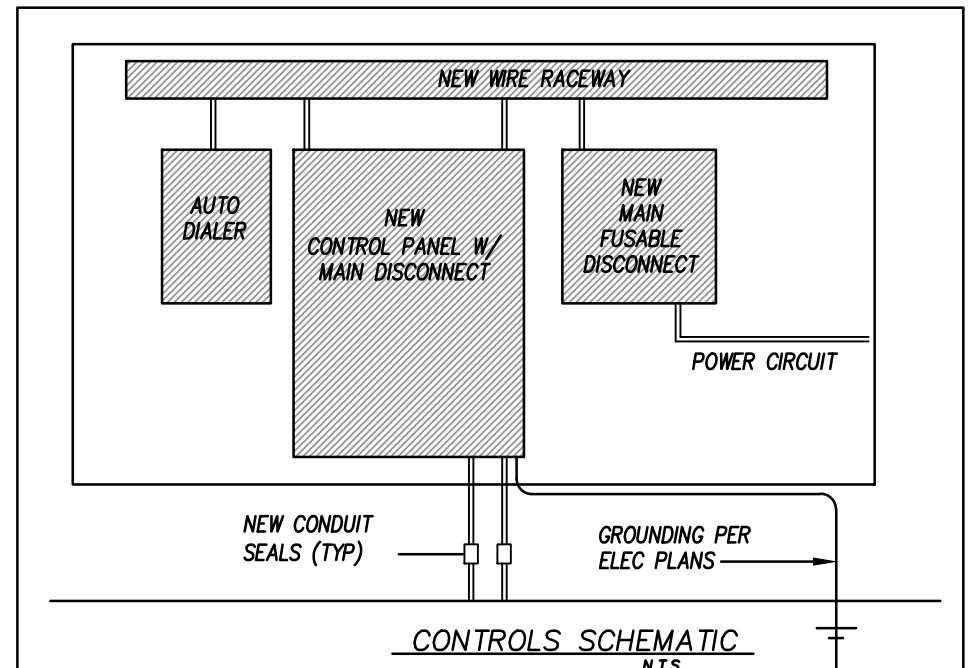
PUMP STATION DESIGN
DESIGN FLOW: FIRE, RESCUE & EMERG. RESPONSE FACILITY
25-GPD/PERSON/SHIFT
25-EMPLOYEES
625-GPD (AVE. DAILY FLOW)
3.5 PEAK FACTOR
2,625-GPD (PEAK DAILY FLOW)
2-GPM (PEAK FLOW)
PUMP RATE: 45-GPM MIN.
PUMP OWNER: ONSLOW COUNTY
FORCEMAIN OWNER: ONWASA (ONSLow WATER & SEWER AUTH.)

CONTROL FEATURES:
ENCLOSURES: NEMA 4X STAINLESS STEEL
AUTO DIALER: YES
ALARM HORN: YES
ALARM STROBE: YES
GFI DUPLEX RECEPT.: YES

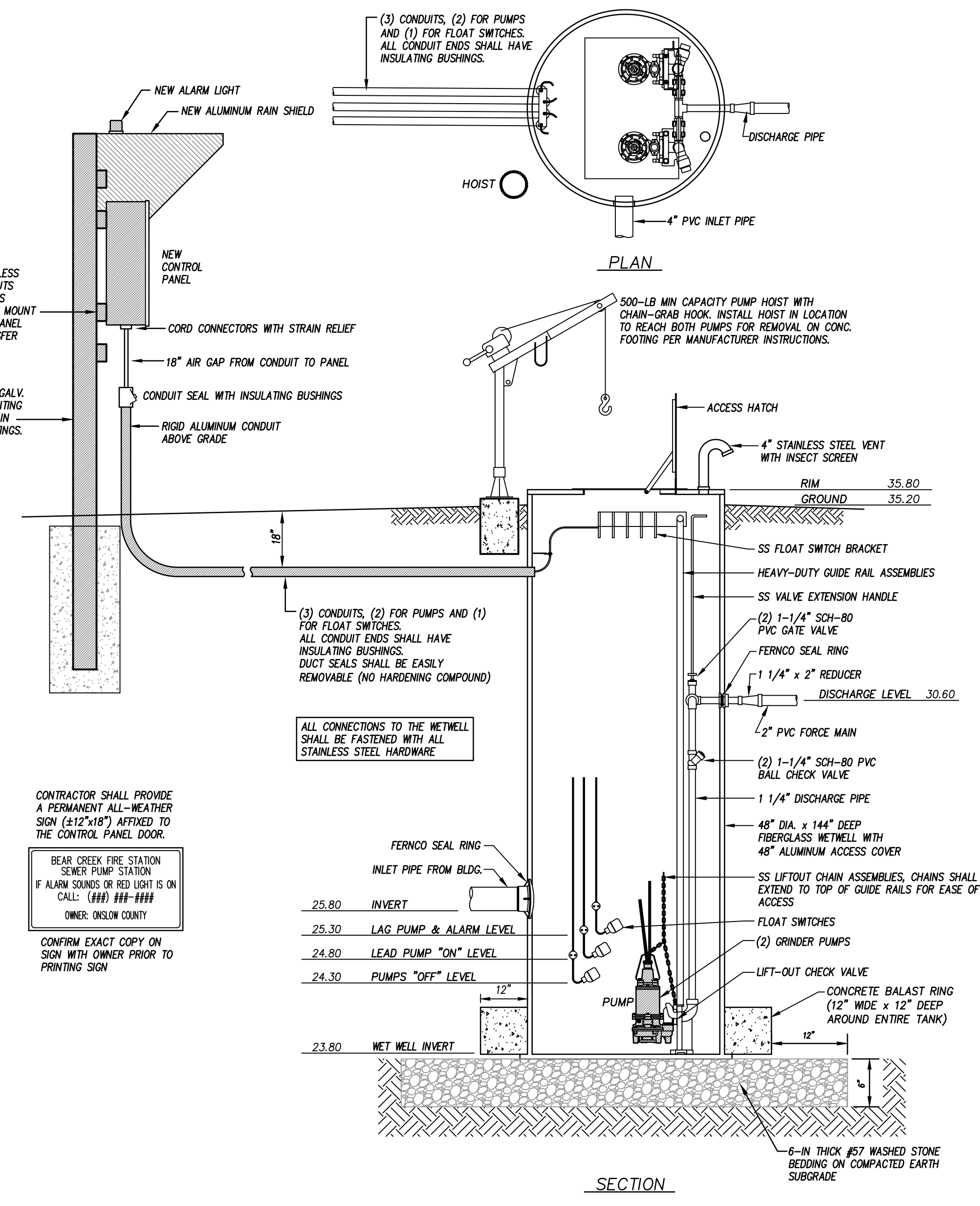
ALTERNATE POWER SOURCE:
GENERATOR: YES, ON-SITE FACILITY GENERATOR
TRANS. SWITCH: YES, INTERNAL TO BLDG. POWER

PUMP SPECIFICATION:
MANUFACTURER: LIBERTY
MODEL: XL50203M
PUMP TYPE: SUBMERSIBLE GRINDER
SOLIDS HANDLING: YES, GRINDER
DISCHARGE: 1.25-IN
NO. OF PUMPS: 2 INSTALLED + 1 SPARE
MIN. FLOW (2-FPS): 44-GPM
PRIMARY DESIGN FLOW: 50-GPM
PRIMARY DESIGN HEAD: 23-FT
MIN. SHUT-OFF HEAD: 105-FT
MOTOR HORSEPOWER: 2-HP (EACH)
MOTOR SPEED: 3,450-RPM
ELECTRICAL: 208-V, 3-PH, 60-Hz

* DESIGN OF PUMP STATION BASED ON THE PUMP SPECIFIED ABOVE. PUMPS SHALL BE MANUFACTURED BY LIBERTY, SULZER, MEYERS, HYDRAMATIC OR APPROVED EQUAL MEETING THE REQUIREMENTS OF THE WRITTEN SPECIFICATIONS AND THE PERFORMANCE REQUIREMENTS LISTED ABOVE.



ELECTRICAL CONTROL NOTES:
1. ALL ELECTRICAL WORK SHALL CONFORM TO LATEST NATIONAL, STATE AND LOCAL CODES AND REQUIREMENTS.
2. PANEL LAYOUT IS SCHEMATIC ONLY. ADJUST AS NEEDED TO ACCOMMODATE EQUIPMENT.
3. ALL ENCLOSURES SHALL BE NEMA 4X RATED AND LOCKABLE.
4. ALL CONDUITS SHALL BE SEALED WITH INSULATING BUSHINGS TO PREVENT MOISTURE, SEWER GASES, ETC. FROM ENTERING EQUIPMENT ENCLOSURES.
5. NO EQUIPMENT SHALL BE MOUNTED LESS THAN 36-IN ABOVE GRADE.



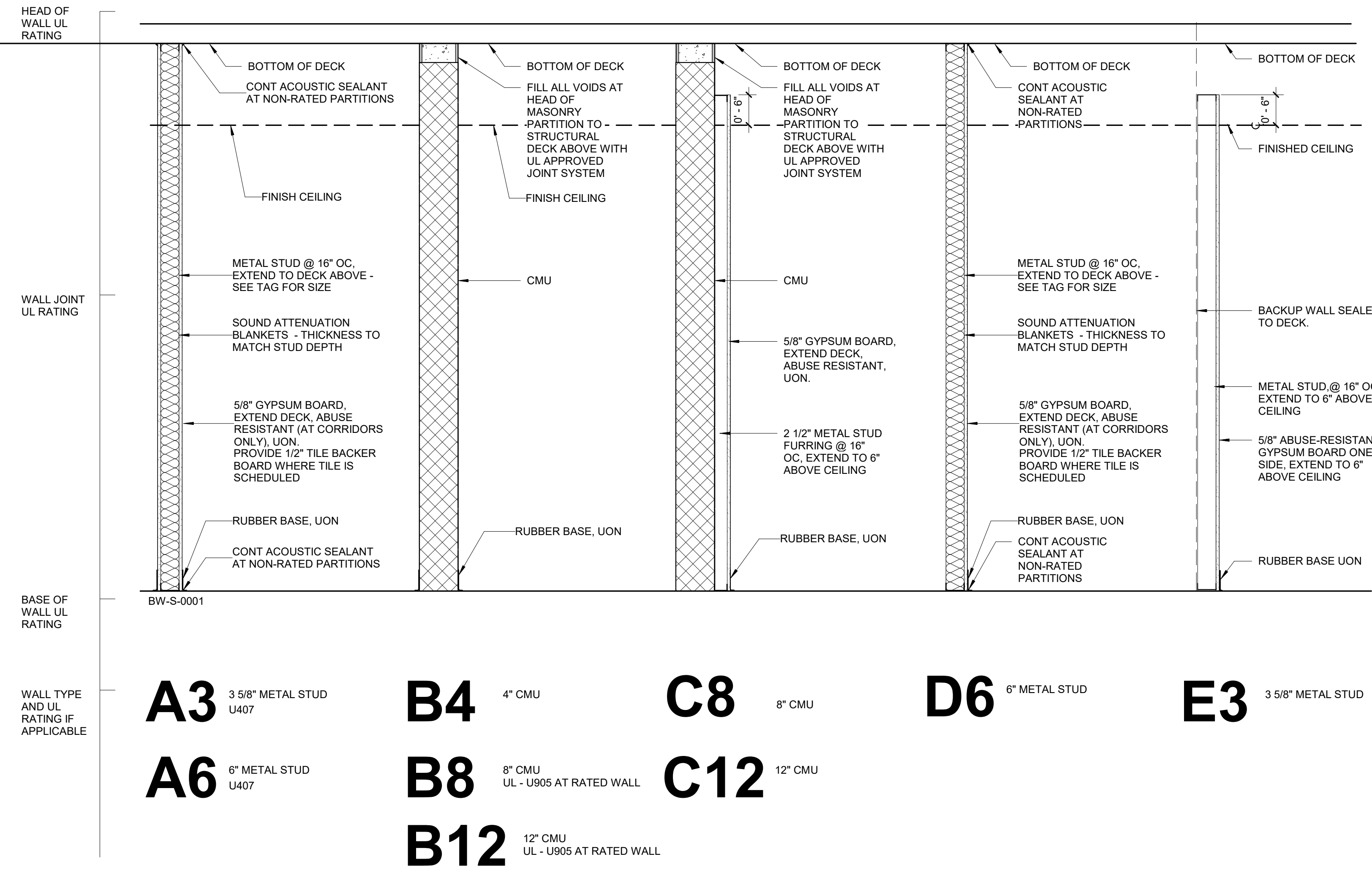
CONTRACTOR SHALL PROVIDE A PERMANENT ALL-WEATHER SIGN (#12"x18") AFFIXED TO THE CONTROL PANEL DOOR.
BEAR CREEK FIRE STATION SEWER PUMP STATION
IF ALARM SOUNDS OR RED LIGHT IS ON CALL: ###-###-####
OWNER: ONSLOW COUNTY

CONFIRM EXACT COPY ON SIGN WITH OWNER PRIOR TO PRINTING SIGN

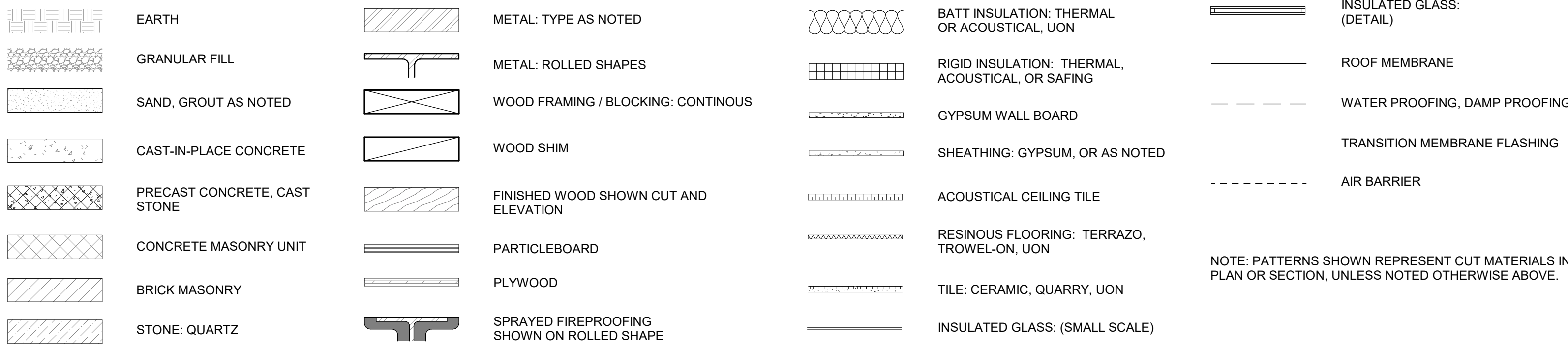
PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID NO. 102-25C
138 OLD SAND RIDGE RD, HUBERT, NC 28539

INTERIOR PARTITIONS LEGEND



ARCHITECTURAL MATERIALS LEGEND



RATED ASSEMBLIES GENERAL NOTES:

- UL CERTIFIED RATED ASSEMBLIES ARE REPRINTED FROM THE ONLINE CERTIFICATIONS DIRECTORY WITH PERMISSION FROM UNDERWRITERS LABORATORIES, INC.
- FIRE PROTECTION MATERIALS DENOTED IN THE FIRE PROTECTION DETAILS PROVIDED HEREIN SHALL NOT BE CONSTRUED AS PROPRIETARY. EQUIVALENT FIRE PROTECTION SYSTEMS MAY BE UTILIZED IF SUBMITTED BY THE CONTRACTOR FOLLOWING REQUIREMENTS SET FORTH IN THE GENERAL CONDITIONS.
- ANY SUBSTITUTIONS OF MATERIALS USED IN RATED ASSEMBLIES ARE SUBJECT TO APPROVAL BY AUTHORITIES HAVING JURISDICTION.
- SEE SHEET **G005** FOR RATED ASSEMBLIES LEGEND.

INTERIOR PARTITION NOTES:

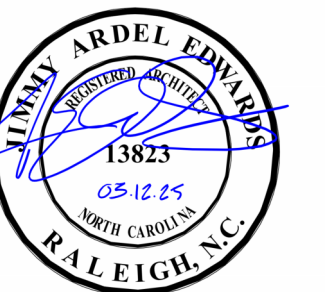
- ALL RATED ASSEMBLIES SHALL BE STENCILED WITH RATED WALL WARNING MESSAGE IN RED TO READ AS FOLLOWS: "...-HOUR RATED FIRE BARRIER. SEAL ALL PENETRATIONS" WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS NOTED ON PLANS. MESSAGE TO BE 4" MIN HIGH LETTERS. PLACED 12" ABOVE CEILING, SPACED AT 6'-0" OC ON BOTH SIDES OF WALLS AND ON UNDERSIDE OF HORIZONTAL RATED ASSEMBLIES.
- ALL INTERIOR PARTITION WALLS ARE TO BE A3 UON.
- SEE SHEET **G005** FOR UL CERTIFIED RATED ASSEMBLIES AS REQUIRED BY INTERIOR PARTITION LEGEND. AT ALL RATED ASSEMBLIES, PROTECT ALL JOINTS AS REQUIRED BY INTERIOR PARTITION LEGEND. SEE PLUMBING, MECHANICAL AND ELECTRICAL SHEETS FOR PROTECTION OF PENETRATIONS IN RATED ASSEMBLIES. SEAL PERIMETER OF ALL RATED ASSEMBLIES AT DECK, STRUCTURE, CEILING, FLOOR AND ADJACENT WALLS, TYP.
- COORDINATE LAYOUT OF WALLS OF DIFFERENT TYPES SUCH THAT FINISH GWB SURFACES ALIGN IN SAME PLANE.
- SEAL PERIMETER OF ALL FIRE RATED WALLS AT DECK, STRUCTURE, CEILING, FLOOR AND ADJACENT WALLS, TYP. RATED WALLS TO BE SEALED AT WALL PENETRATIONS AND TO ADJACENT CONSTRUCTION WITH APPLICABLE JOINT PROTECTION SYSTEM.
- AT ALL RATED PARTITIONS, RATE ALL JOINTS AND PENETRATIONS PER APPLICABLE UL DETAIL.
- AT ALL NON-RATED WALLS AND PARTITIONS, SEAL ALL PENETRATIONS USING APPROVED NON-COMBUSTIBLE MATERIAL
- AT PARTITION WALLS WITH SOUND BATT INSULATION, PROVIDE CONTINUOUS ACOUSTIC SEALANT AROUND FULL PERIMETER OF PARTITION AT ADJACENT SURFACES AND AT PENETRATIONS.
- TOP OF WALL BRACING NOT SHOWN THIS SHEET, SEE STRUCTURAL DRAWINGS FOR TYPICAL WALL BRACING DETAILS AND ADDITIONAL REINFORCEMENT REQUIREMENTS.
- PROVIDE LATERAL BRACING FOR PARTITIONS WHICH EXTEND ABOVE CEILING.
- ISOLATE NON-LOAD-BEARING STUD FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT AS SPECIFIED.
- PROVIDE PARTITION CONTROL JOINTS PER DETAILS ON SHEET A310. AS INDICATED ON INTERIOR ELEVATIONS AND ON RCPS. DRYWALL CONTRACTOR TO VERIFY ALL RECOMMENDED LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO INTERIOR FINISHES PLANS AND REFLECTED CEILING PLANS FOR ADDITIONAL WALL FINISH, BASE, AND CEILING INFORMATION.
- PROVIDE WATER RESISTANT GWB WITHIN 4 FEET OF DRINKING FOUNTAINS / WATER COOLERS, UON.
- OUTSIDE CORNER OF CMU WALLS TO BE BULLNOSED FROM 8" AFF TO 8'-8" AFF TYPICAL, UON.
- PENETRATIONS OF NON-RATED WALLS AND PARTITIONS OF NON-COMBUSTIBLE CONSTRUCTION SHALL BE SEALED USING APPROVED NON-COMBUSTIBLE MATERIAL.
- PROVIDE 2X SOLID WOOD BLOCKING CONCEALED IN METAL STUD WALL CONSTRUCTION FOR WALL-MOUNTED FIXTURES, FURNISHINGS, EQUIPMENT AND ACCESSORIES.

FURNITURE, FIXTURES, AND EQUIPMENT LEGEND

NOTE: CONTRACTOR TO COORDINATE ALL FF&E ITEMS WITH OWNER PRIOR TO SCHEDULING DELIVERY AND INSTALLATION

01 SOAP DISPENSER, WALL MOUNTED	13 SURFACE MOUNTED COMBINATION PAPER TOWEL AND WASTE RECEPTACLE	30 FIRE EXTINGUISHER ON HOOK	50 ICE MAKER, OPCI
02 PAPER TOWEL DISPENSER / TRASH RECEPTACLE	14 CASCADE SCBA SYSTEM, OPCI	31 FIRE EXTINGUISHER IN CABINET	51 DISHWASHER, OPCI
03 TOILET PAPER DISPENSER	15 EYE WASH - SEE PLUMBING DRAWINGS	32 TWIN SIZE BED, NIC	52 REFRIGERATOR, OPCI
04 ADA INTEGRATED PIPE PROTECTION	16 STAINLESS STEEL RECESSED SHOWER SHELF	33 WALL MOUNTED FLAT SCREEN TV, OPCI	53 WASTE/ RECYCLING CONTAINER, OPCI
05 ACCESIBLE SHOWER SEAT	17 MOP HOLDER	34 48" X 72" GLASS BOARD, MOUNT BOTTOM OF GLASS/MARKER HOLDER AT 34" AFF	54 RANGE HOOD, SEE MECHANICAL DRAWINGS
06 SHOWER CURTAIN, ROD & HOOKS	18 WASHER EXTRACTOR - SEE PLUMBING DRAWINGS	35 GEAR LOCKER ON CASTER	55 RESIDENTIAL RANGE, OPCI
07 TOWEL HOOK	19 HEAVY DUTY TUMBLE DRYER, OPCI	36 WALL MOUNTED GEAR LOCKER	56 COFFEE MAKER, NIC
08 24" X 36" MIRROR	20 ADA DUAL HEIGHT DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS	37 DUAL BLACKOUT AND SHEER ROLLING SHADE	
09 18" GRAB BAR	21 SCULLERY SINK, SEE PLUMBING DRAWINGS	38 2" WINDOW BLINDS	
10 24" GRAB BAR	22 WASHER & DRYER, OPCI	39 LOCKERS, SEE SPECIFICATIONS	
11 36" GRAB BAR			
12 42" GRAB BAR			

SEALS



DKA JOB NUMBER
2324

REVISIONS

NO.	DESCRIPTION

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Drawn By: _____
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BID DOCUMENTS
03/12/2025

SHEET TITLE
PARTITION WALL TYPES

A002



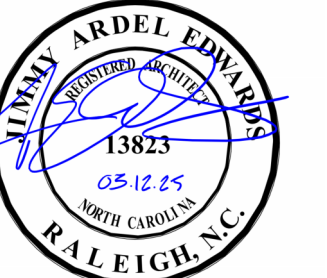
DAVIS KANE ARCHITECTS, P.A.

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PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID NO. 102-25C
138 OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS



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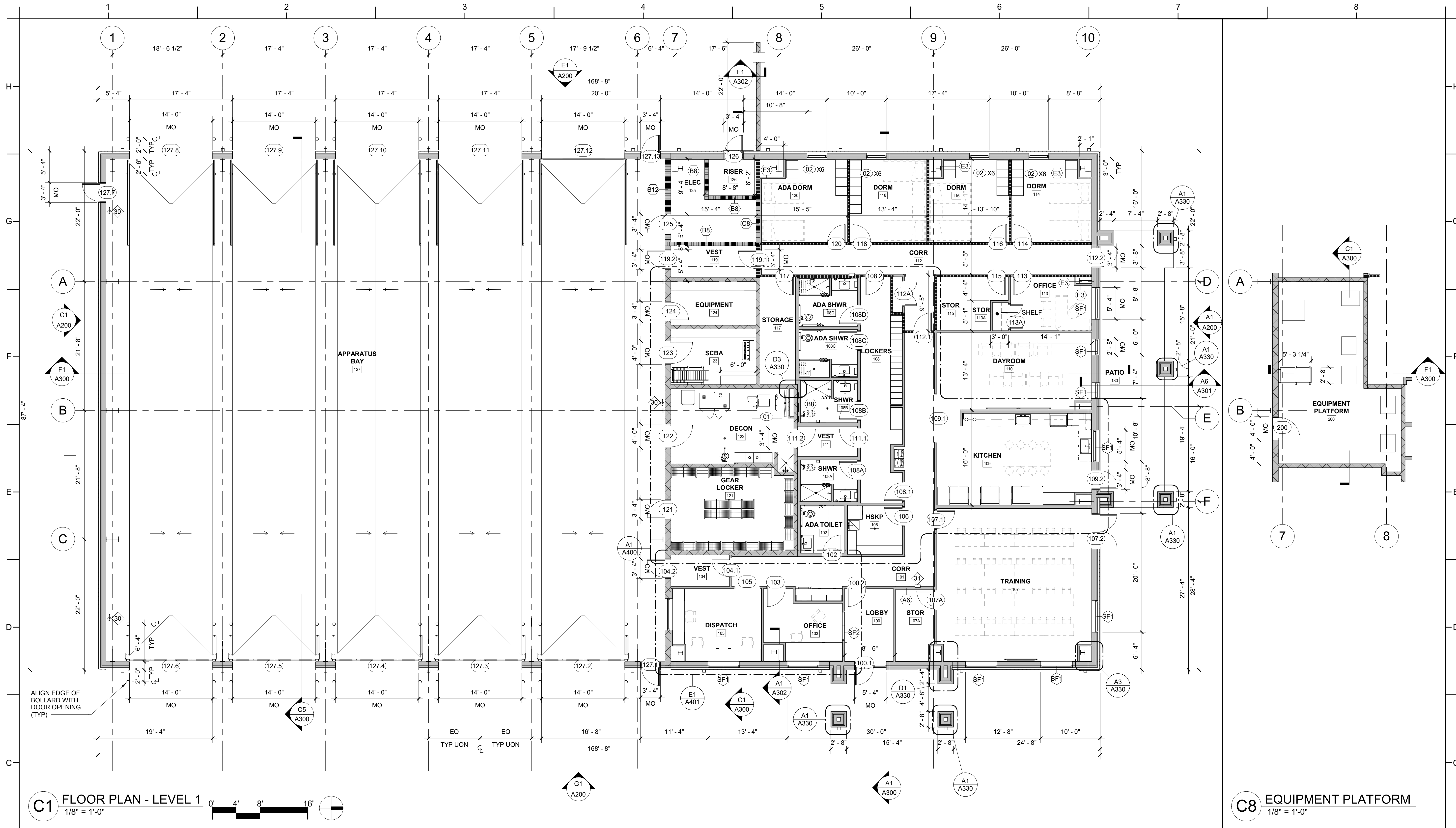
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03/12/2025

SHEET TITLE

FIRST FLOOR & EQUIP PLATFORM FLOOR PLANS

A100



C1 FLOOR PLAN - LEVEL 1
1/8" = 1'-0"

C8 EQUIP PLATFORM
1/8" = 1'-0"

FLOOR PLAN KEY NOTES

NOTE: NOT ALL KEY NOTES BELOW ARE APPLICABLE TO THIS SHEET. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. SEE SHEETS A001 & A002 FOR FLOOR PLAN GENERAL NOTES, PARTITION GENERAL NOTES, LEGENDS, AND ADDITIONAL REQUIREMENTS.

01	THICKENED SLAB FOR EXTRACTOR - SEE STRUCTURAL DRAWINGS
02	WARDROBE - SEE DETAIL A7/A401

RATED ASSEMBLIES LEGEND:

NOTES: RATINGS ARE NOT SHOWN THROUGH DOORS FOR CLARITY. SEE A002 FOR PARTITION TYPES. SEE LIFE SAFETY PLANS ON G004 FOR FULL EXTENT OF RATINGS, INCLUDING HORIZONTAL RATINGS. RATINGS ARE CONTINUOUS AROUND OPENINGS AND OPENINGS ARE TO BE PROTECTED IN ACCORDANCE WITH THE NC STATE BUILDING CODE. PROTECT ALL PENETRATIONS.

ALL RATED ASSEMBLIES SHALL BE STENCILED WITH RATED WALL WARNING MESSAGE IN RED TO READ AS FOLLOWS: " - HOUR RATED FIRE BARRIER. SEAL ALL PENETRATIONS WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS NOTED ON PLANS. MESSAGE TO BE 4" MIN HIGH LETTERS, PLACED 12" ABOVE CEILING, SPACED AT 12"-0" OC ON BOTH SIDES OF WALLS AND ON UNDERSIDE OF HORIZONTAL RATED ASSEMBLIES.

- SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.
- 2-HR. FIRE BARRIER
- 1/2-HR FIRE PARTITION

FLOOR PLAN GENERAL NOTES:

- 0'-0" FLOOR ELEVATION ON ARCHITECTURAL DRAWINGS EQUALS 36'-0" ELEVATION AS INDICATED ON CIVIL DRAWINGS.
- DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO ARCHITECT FOR INTERPRETATION. SEE SHEET A002 FOR INTERIOR PARTITION LEGEND AND NOTES. SEE WALL SECTIONS FOR EXTERIOR WALLS, TYP.
- ALL HINGE-SIDE DOOR JAMBS IN GYPSUM WALLS TO BE 4" TO THE INSIDE OF ADJACENT PERPENDICULAR WALL, UNLESS DIMENSIONED OTHERWISE.
- ALL HINGE-SIDE JAMBS IN CMU WALLS TO BE 4" TO 8" AT A MASONRY HEAD JOINT TO INSIDE OF ADJACENT PERPENDICULAR WALL, UNLESS DIMENSIONED OTHERWISE.
- ALL DOORS IN ALCOVES TO BE 18" MIN FROM STRIKE SIDE OF DOOR TO INSIDE OF ADJACENT PERPENDICULAR WALL, UNLESS DIMENSIONED OTHERWISE.
- ALL DIMENSIONS TO FACE OF METAL STUD, FACE OF MASONRY, FACE OF CONCRETE, OR COLUMN CENTERLINE, UNON.
- PROVIDE CONTROL JOINTS IN INTERIOR AND EXTERIOR CMU WALLS EVERY 20' O.C. MAX. UNON. MAINTAIN 2'-0" MINIMUM FROM JAMBS AT ALL OPENINGS.
- PROVIDE CONTROL JOINTS IN GYPSUM BOARD WALL CONSTRUCTION AS INDICATED. VERIFY FINAL CONTROL JOINT LOCATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS WITH ARCHITECT PRIOR TO STARTING WORK.
- SEE KEY NOTES AND NOTES ON PLANS FOR SPECIFIC NOTES FOR EACH DRAWING AREA.
- SEE PLUMBING, MECHANICAL, ELECTRICAL, FIRE PROTECTION, CIVIL AND STRUCTURAL DRAWINGS FOR RELATED WORK AND ADDITIONAL REQUIREMENTS.
- COORDINATE EQUIPMENT WORK WITH MANUFACTURERS AND SUPPLIERS TO ENSURE PROPER ROUGH-IN CLEARANCES FOR INSTALLATION, USE AND MAINTENANCE.
- ALL OPENINGS IN MASONRY WALLS ARE TO RECEIVE LINTEL OR BOND BEAM. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE SEALANT AT JUNCTION OF DIFFERENT MATERIALS UNLESS OTHER MEANS OF SEALING AND CLOSURE IS SPECIFIED.
- INSTALL METAL "F" TRIM IN GWB WALL AT VERTICAL EDGE WHERE GWB WALL MEETS CMU WALL. PROVIDE SEALANT AT JUNCTION OF DIFFERENT MATERIALS UNLESS OTHER MEANS OF SEALING AND CLOSURE IS SPECIFIED.
- PROVIDE THOROUGH FINAL CLEANING THROUGHOUT INTERIOR PRIOR TO OWNER OCCUPANCY. INTERIOR CLEANING TO INCLUDE FLOORS, BASE, WALLS, WALL-MOUNTED EQUIPMENT, FIXTURES, FURNISHINGS, DOORS, WINDOWS, FRAMES, SILLS, CEILINGS, CEILING MOUNTED EQUIPMENT AND FIXTURES.
- THE ANNULAR SPACE OF EACH PENETRATION OF EACH FLOOR ASSEMBLY IS TO BE FILLED WITH MATERIAL THAT IS TESTED FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS.
- VERIFY MOUNTING HEIGHTS OF ACCESSORIES. EQUIPMENT, DOOR HARDWARE, CASEWORK, ETC., AND PROVIDE SOLID BLOCKING BEHIND ITEMS REQUIRING ANCHORAGE. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, MOUNT ITEMS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS. COORDINATE LOCATIONS WITH MANUFACTURER OR SUPPLIER AND REFER MOUNTING HEIGHT QUESTIONS TO ARCHITECT FOR INTERPRETATION.
- SEE I-SHEETS FOR INTERIOR FINISHES PLANS, FF&E PLANS, SCHEDULES, AND ADDITIONAL FINISHES.
- ALL PARTITIONS ARE TYPE A3, UNON.



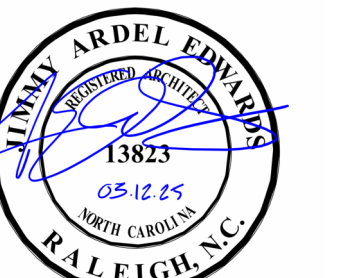
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PM: ALEXANDRE PENEGRÉ
Drawn By: RM
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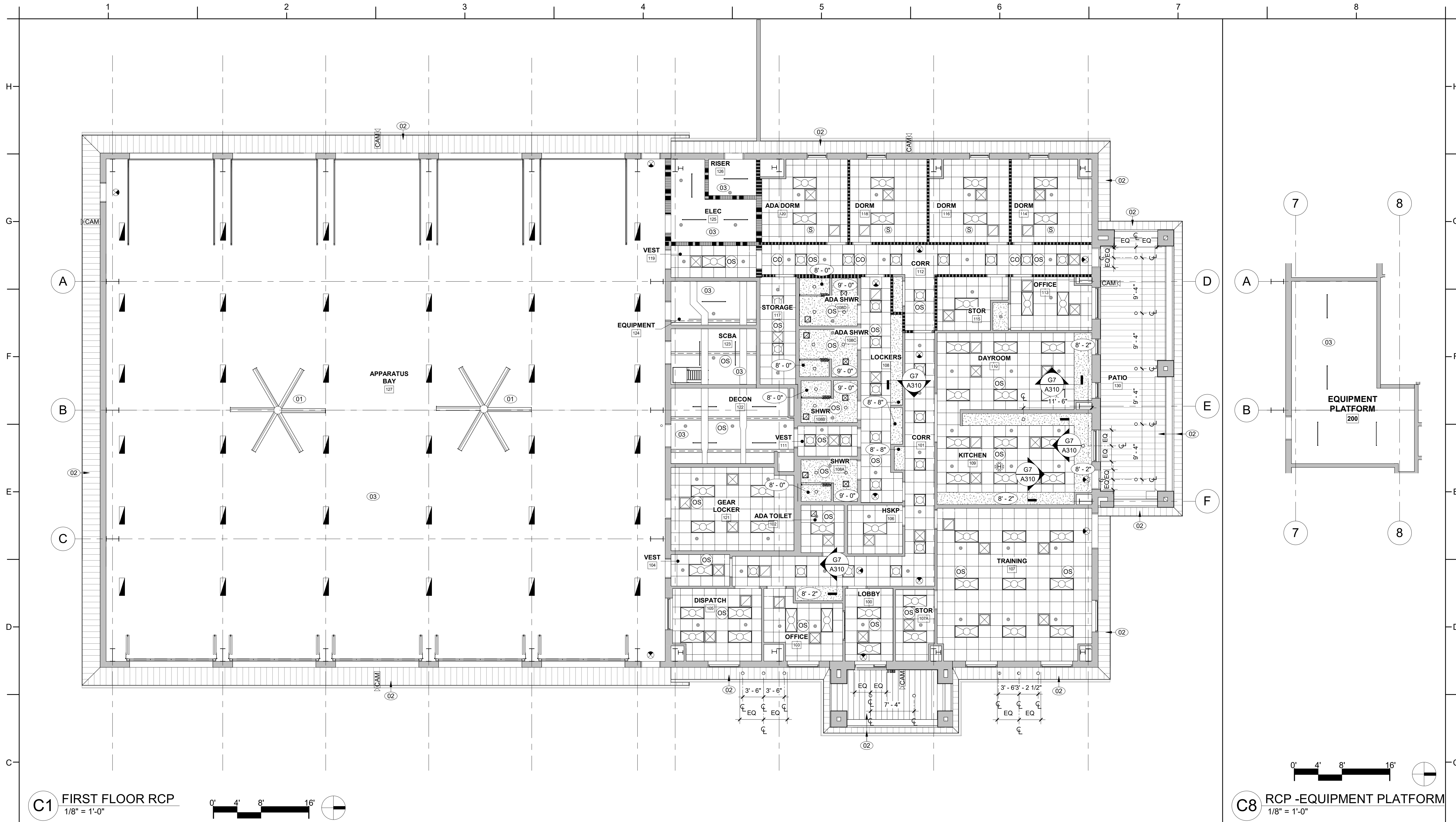
BID DOCUMENTS

03/12/2025

SHEET TITLE

FIRST FLOOR & EQUIP PLATFORM RCP

A110



C1 FIRST FLOOR RCP
1/8" = 1'-0"

C8 RCP -EQUIP PLATFORM
1/8" = 1'-0"

REFLECTED CEILING PLAN KEY NOTES

NOTE: KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. SEE PLANS FOR KEYED ITEM LOCATIONS. SEE SHEET A000 FOR REFLECTED CEILING PLAN GENERAL NOTES, REFLECTED CEILING PLAN LEGEND AND FF&E LEGEND.

01	HIGH VOLUME, LOW SPEED INDUSTRIAL FAN. SEE MECH. DRAWINGS FOR DETAILS
02	METAL SOFFIT
03	PAINTED EXPOSED STRUCTURE

RATED ASSEMBLIES LEGEND:

NOTES: RATINGS ARE NOT SHOWN THROUGH DOORS FOR CLARITY. SEE A002 FOR PARTITION TYPES. SEE LIFE SAFETY PLANS ON G004 FOR FULL EXTENT OF RATINGS, INCLUDING HORIZONTAL RATINGS. RATINGS ARE CONTINUOUS AROUND OPENINGS AND OPENINGS ARE TO BE PROTECTED IN ACCORDANCE WITH THE NC STATE BUILDING CODE. PROTECT ALL PENETRATIONS.

ALL RATED ASSEMBLIES SHALL BE STENCILED WITH RATED WALL WARNING MESSAGE IN RED TO READ AS FOLLOWS: " -HR RATED FIRE BARRIER. SEAL ALL PENETRATIONS WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS NOTED ON PLANS. MESSAGE TO BE 4" MIN HIGH LETTERS, PLACED 12" ABOVE CEILING, SPACED AT 12"-0" OC ON BOTH SIDES OF WALLS AND ON UNDERSIDE OF HORIZONTAL RATED ASSEMBLIES.

SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.

- 2-HR. FIRE BARRIER
- 1/2-HR FIRE PARTITION

RCP GENERAL NOTES:

- CEILING GRIDS TO BE CENTERED IN ROOM AS SHOWN, UNLESS DIMENSIONED OTHERWISE.
- DOUBLE CEILING TRACK AT THE EDGE OF ANY LAY-IN AREAS IS NOT ACCEPTABLE. PROVIDE A 2x4 TILE CUT TO FIT THE LARGER OPENING WHERE A STRIP OF TILE LESS THAN 2 1/2" IN EITHER DIRECTION WOULD HAVE TO BE USED, TYP.
- MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND AV COMPONENTS ARE SHOWN FOR COORDINATION PURPOSES ONLY. SEE PLUMBING, ELECTRICAL, MECHANICAL, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND PLUMBING WORK ABOVE CEILING, IN ORDER TO PROVIDE FINISHED CEILINGS AT HEIGHTS REQUIRED ON CEILING PLAN.
- PRIME AND PAINT ALL NON-GALVANIZED STEEL LINTELS THAT ARE TO REMAIN EXPOSED.
- SEE INTERIOR FINISHES SCHEDULE AND INTERIOR FINISHES PLANS ON I-SHEETS FOR ADDITIONAL CEILING INFORMATION AND REQUIREMENTS.
- SEE SECTIONS AND INTERIOR ELEVATIONS FOR BULKHEAD DIMENSIONS NOT NOTED ON REFLECTED CEILING PLANS AND DETAILS.
- PROVIDE CONTROL JOINTS IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON THE DRAWINGS.
- ALL GWB CONTROL JOINTS ARE TO RUN HORIZONTALLY AS SHOWN ON REFLECTED CEILING PLANS AND VERTICALLY UP THE FACE OF THE BULKHEAD.
- CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC. UON
- PAINT ALL EXPOSED GWB CEILINGS AND BULKHEADS.
- USE OVERSIZE 2x4 MATCHING CEILING PANEL CUT TO SIZE AT ROOM PERIMETER WHERE CEILING AND GRID LAYOUT RESULTS IN PANEL WIDTH LESS THAN 3 INCHES.
- SUBMIT COORDINATION DRAWINGS AND LAYOUT FOR APPROVAL IN ALL AREAS WITH EXPOSED STRUCTURE PRIOR TO INSTALLATION.
- AUTOMATIC SPRINKLER DESIGN BY PERFORMANCE SPECIFICATION. SPRINKLER HEADS SHOWN FOR AREAS WITH AESTHETIC OR ADDITIONAL REQUIREMENTS COORDINATION. CONTRACTOR RESPONSIBLE FOR FULL RCP COORDINATION.
- ALL CEILINGS 9'-0" AFF UON.
- WHERE NO CEILING IS SCHEDULED, PAINT ALL EXPOSED AND SEMI-EXPOSED SURFACES INCLUDING STEEL STRUCTURE, STEEL DECK, PIPING, DUCT, CONDUIT, BOXES, ETC. DO NOT PAINT EXPOSED CONCRETE SURFACES. MASK AND PROTECT FROM PAINT THOSE ITEMS THAT WILL NOT PROPERLY OPERATE WITH FIELD-APPLIED COATINGS, INCLUDING SPRINKLER HEADS, CONTROLS, LEVERS, VALVES, SENSORS, ETC. SEE F, P, M, AND E DRAWINGS FOR ADDITIONAL REQUIREMENTS.



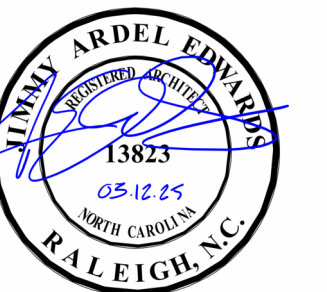
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ONSLOW COUNTY BEAR CREEK FIRE STATION
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138 OLD SAND RIDGE RD, HUBERT, NC 28539

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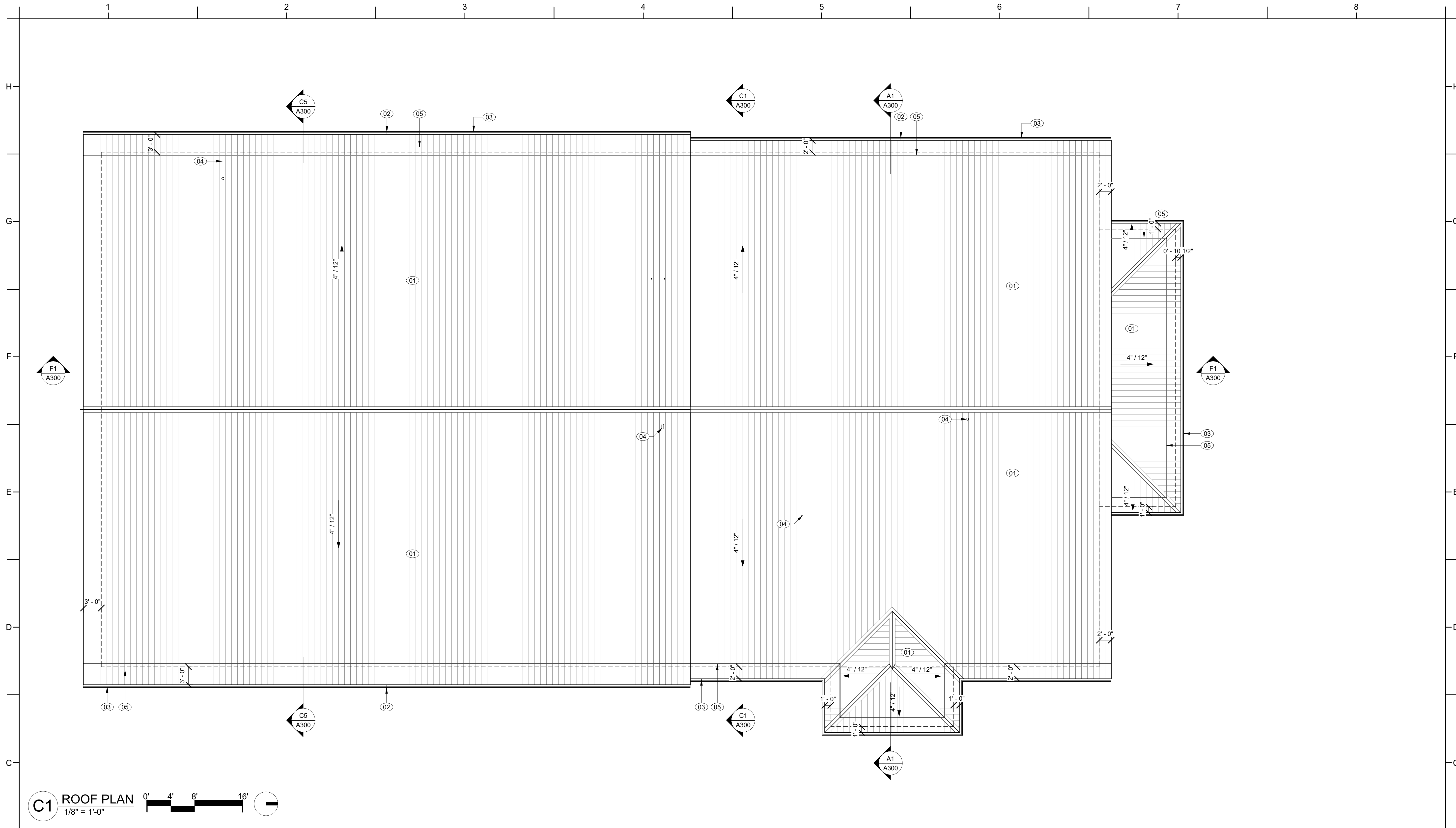
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BID DOCUMENTS
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SHEET TITLE
ROOF PLAN

A120



C1 ROOF PLAN
1/8" = 1'-0"

ROOF PLAN KEY NOTES

NOTE: KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. SEE PLANS FOR KEYED ITEM LOCATIONS.

01	STANDING SEAM MTL ROOF, MECHANICALLY SEALED, ARCHITECT TO SELECT COLOR FROM MANUFACTURER'S FULL RANGE OF COLORS, TYP
02	GUTTER EXPANSION
03	PRE-FINISHED METAL GUTTER
04	EXHAUST VENT - SEE MECHANICAL DRAWINGS.
05	SNOW GUARD

ROOF PLAN LEGEND

X/1'-0" ROOF SLOPE AND DIRECTION

ROOF PLAN GENERAL NOTES:

- NEW ROOF SYSTEM INCLUDES ALL COMPONENTS AND ACCESSORIES REQUIRED TO PROVIDE A COMPLETE, WATERTIGHT AND WARRANTED SYSTEM. ITEMS INCLUDE BUT ARE NOT LIMITED TO INSULATION, ADHESIVE, PRIMER, FASTENERS, ANCHORS, METAL FLASHING, COPING, PATCHING MATERIALS, ETC.
- COORDINATE INSTALLATION OF NEW ROOF SYSTEM TO MINIMIZE THE TIME WHEN ROOF DECK IS EXPOSED TO WEATHER AND BUILDING IS SUBJECT TO WATER INTRUSION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT WATER INTRUSION INTO BUILDING DURING CONSTRUCTION INCLUDING TEMPORARY COVERS.
- SLOPE INDICATED IN LEGEND IS A MINIMUM SLOPE MEASURED AT THE ROOF SURFACE.



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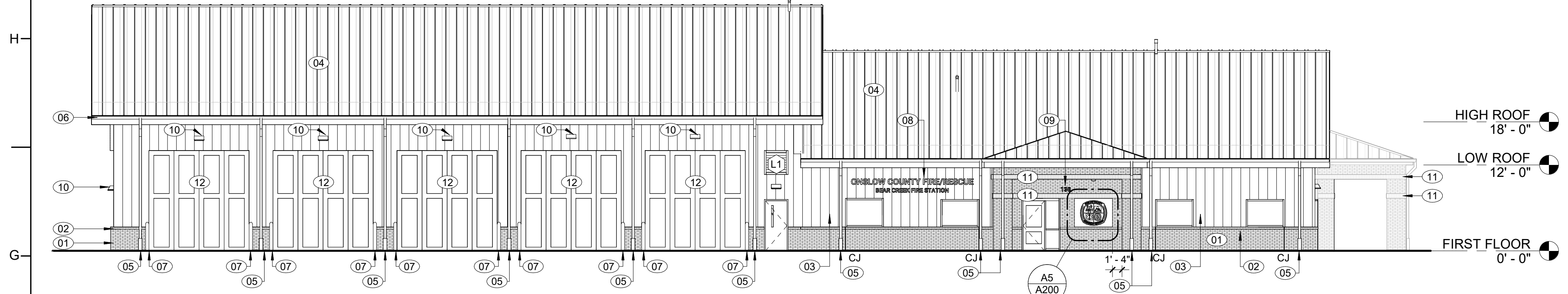
EXTERIOR ELEVATION GENERAL NOTES:

1. FOR SYMBOLS LEGEND, SEE A000.
2. LOUVERS NOT TAGGED IN EXTERIOR ELEVATIONS ARE TAGGED IN BUILDING AREA PLANS.
3. PROVIDE CONTROL JOINTS (CJ) IN MASONRY CONSTRUCTION AS INDICATED.
4. PROVIDE CONTROL JOINTS (CJ) AT ALL INSIDE CORNERS.
5. VERIFY FINAL CONTROL JOINT (CJ) LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK.
6. AIR BARRIER AND ASSOCIATED FLASHING SHALL BE CONTINUOUS AND UNBROKEN AT ALL SURFACES OF WALL MEMBRANE TO BE FLASHED TO ALL OTHER COMPONENTS AND ASSEMBLIES TO PROVIDE AIR-TIGHT CONDITION.

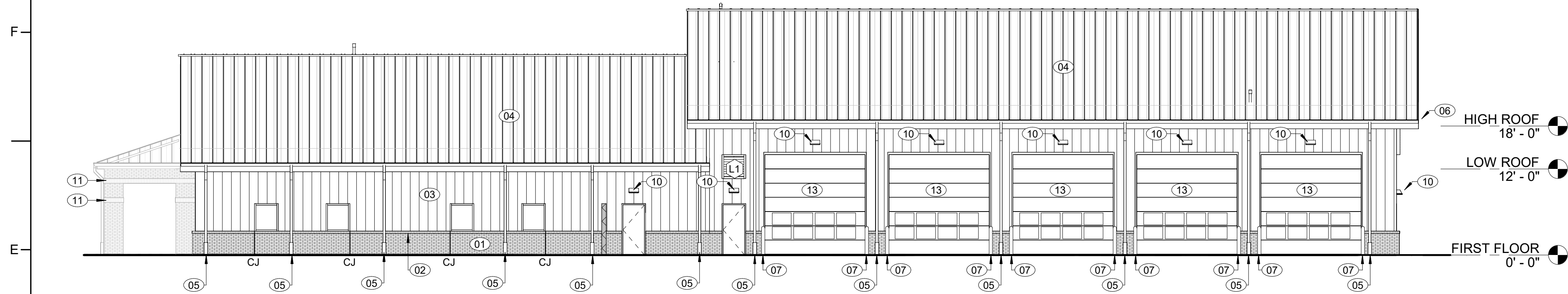
EXTERIOR ELEVATIONS KEY NOTES

NOTE: SEE ELEVATIONS FOR KEYED ITEM LOCATIONS. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS.

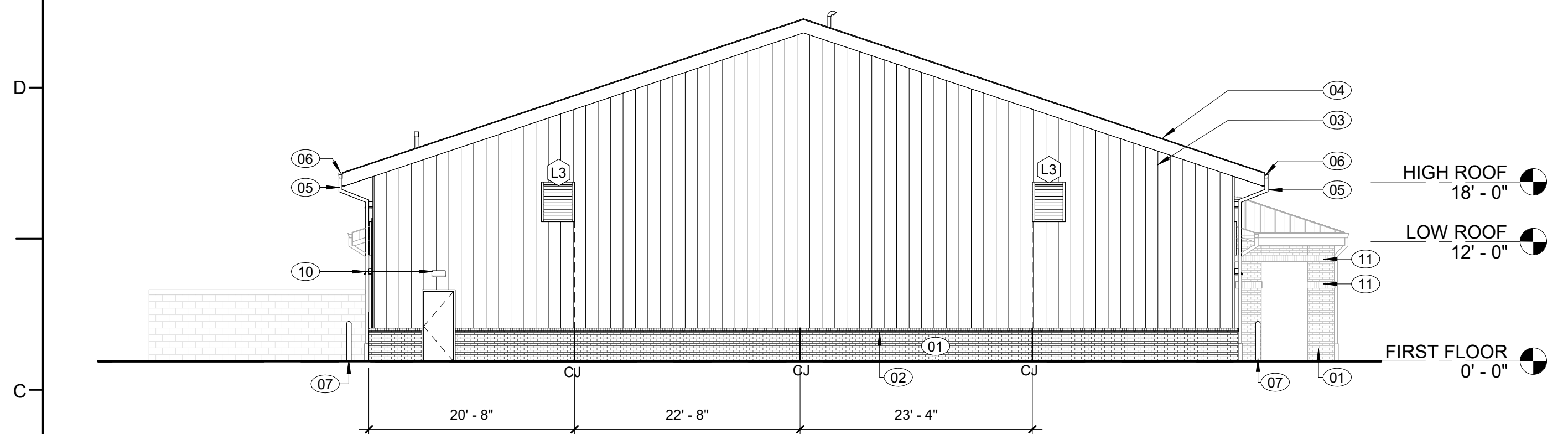
01	BRICK VENEER
02	BRICK VENEER, ROWLOCK
03	METAL PANEL, CONCEALED FASTENER, COLOR TO BE SELECTED FROM MFR'S FULL RANGE OF COLORS
04	STANDING SEAM METAL ROOF, MECHANICALLY SEALED, ARCHITECT TO SELECT LIGHT GRAY COLOR FROM MFR'S FULL RANGE OF COLORS, TYP
05	PRE-FINISHED METAL DOWNSPOUT, COLOR TO MATCH ROOFING
06	PRE-FINISHED METAL BOX GUTTER, COLOR TO MATCH ROOFING
07	BOLLARD, SLEEVE COLOR TO BE SELECTED FROM MFR'S FULL RANGE OF COLORS
08	10 7/8" CENTURY GOTHIC FONT WITH SOFFIT LIGHTING - SEE ELECTRICAL DRAWINGS
09	7" HIGH BUILDING ADDRESS NUMBERS, CENTURY GOTHIC TEXT
10	LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
11	BRICK VENEER, SOLDIER COURSE
12	BI-FOLDING DOORS
13	OVERHEAD DOORS
14	PRECAST CAP



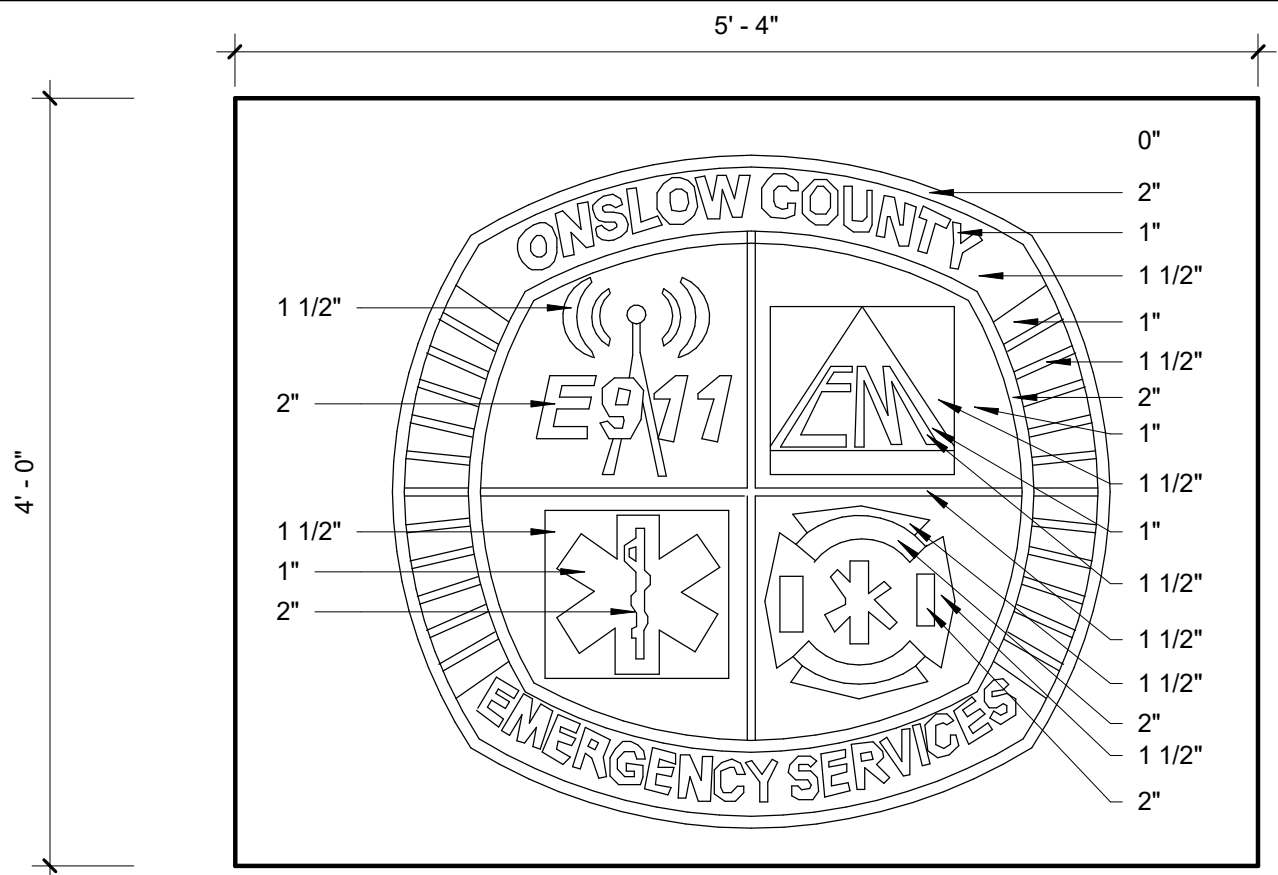
G1 EAST ELEVATION
3/32" = 1'-0"



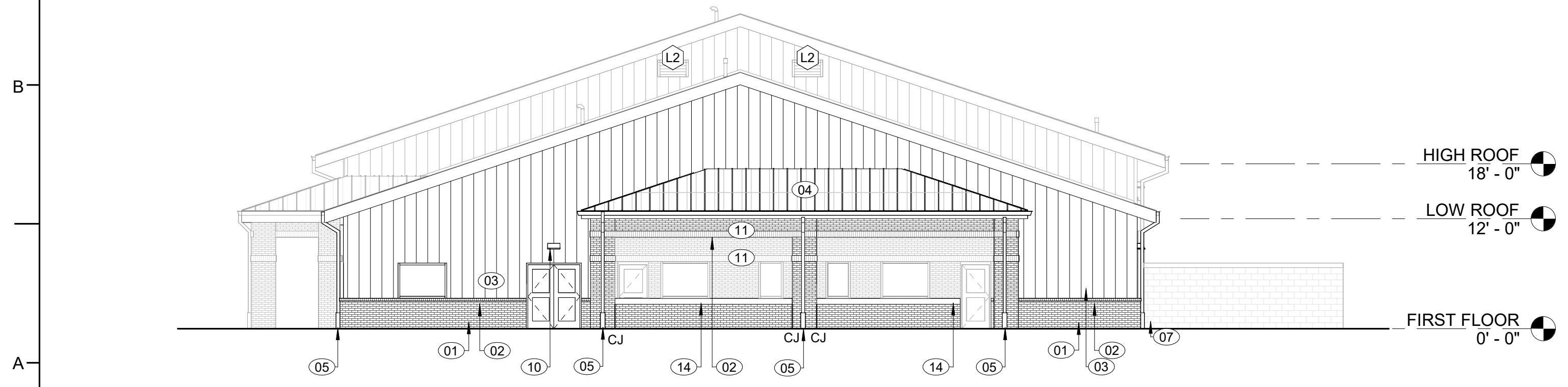
E1 WEST ELEVATION
3/32" = 1'-0"



C1 SOUTH ELEVATION
3/32" = 1'-0"

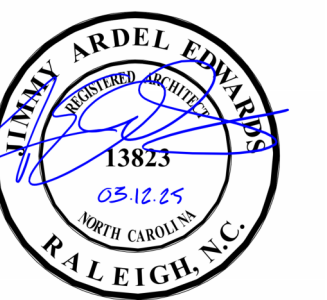


A5 PRECAST SIGN
1" = 1'-0"



A1 NORTH ELEVATION
3/32" = 1'-0"

SEALS



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SHEET TITLE
EXTERIOR ELEVATIONS

A200



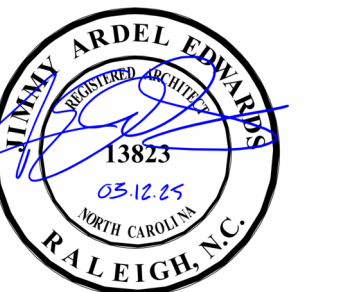
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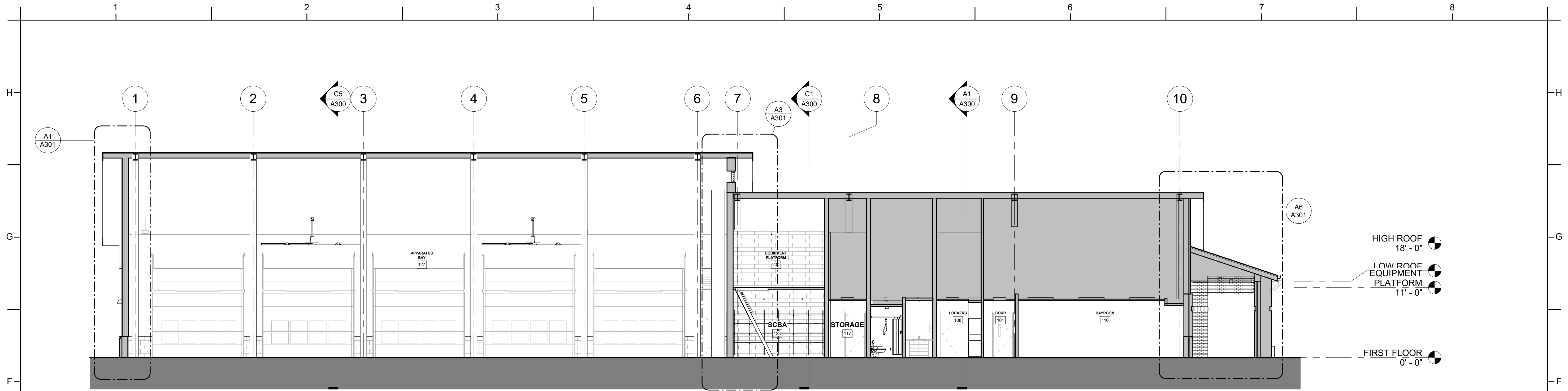
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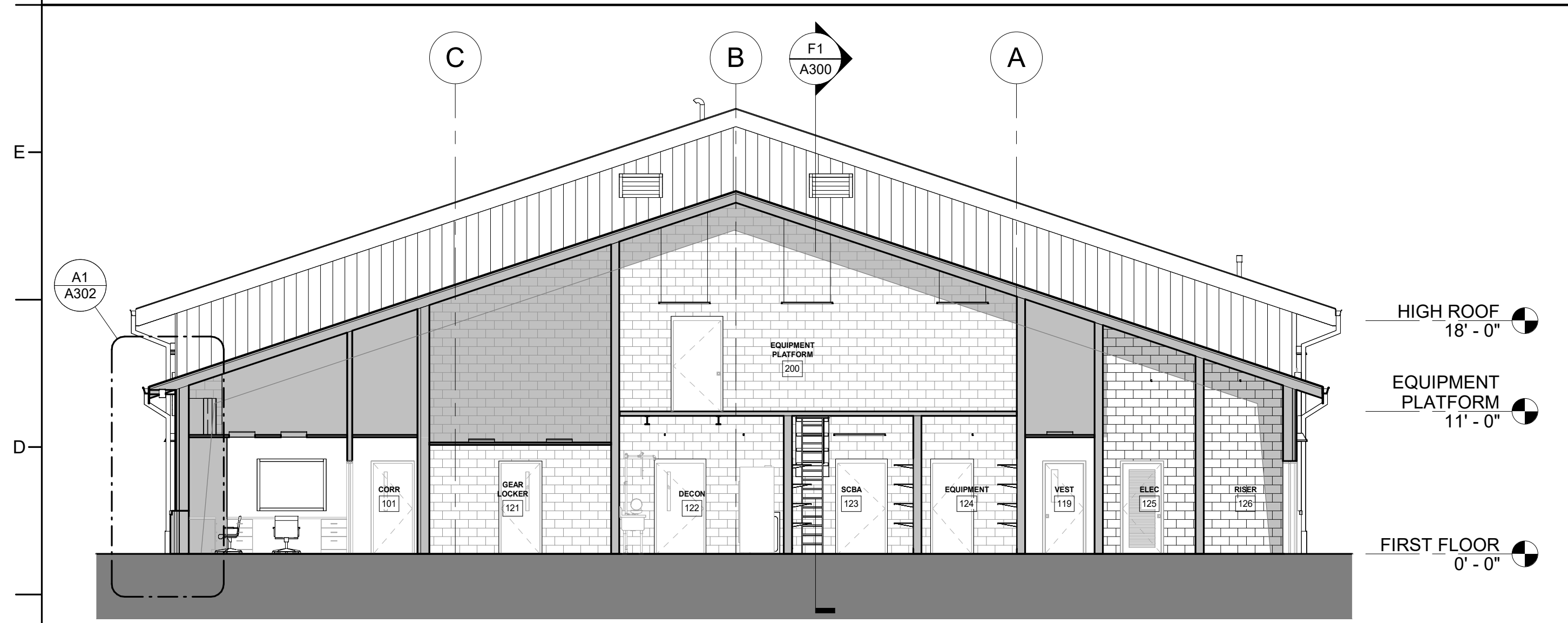
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SHEET TITLE
BUILDING SECTIONS

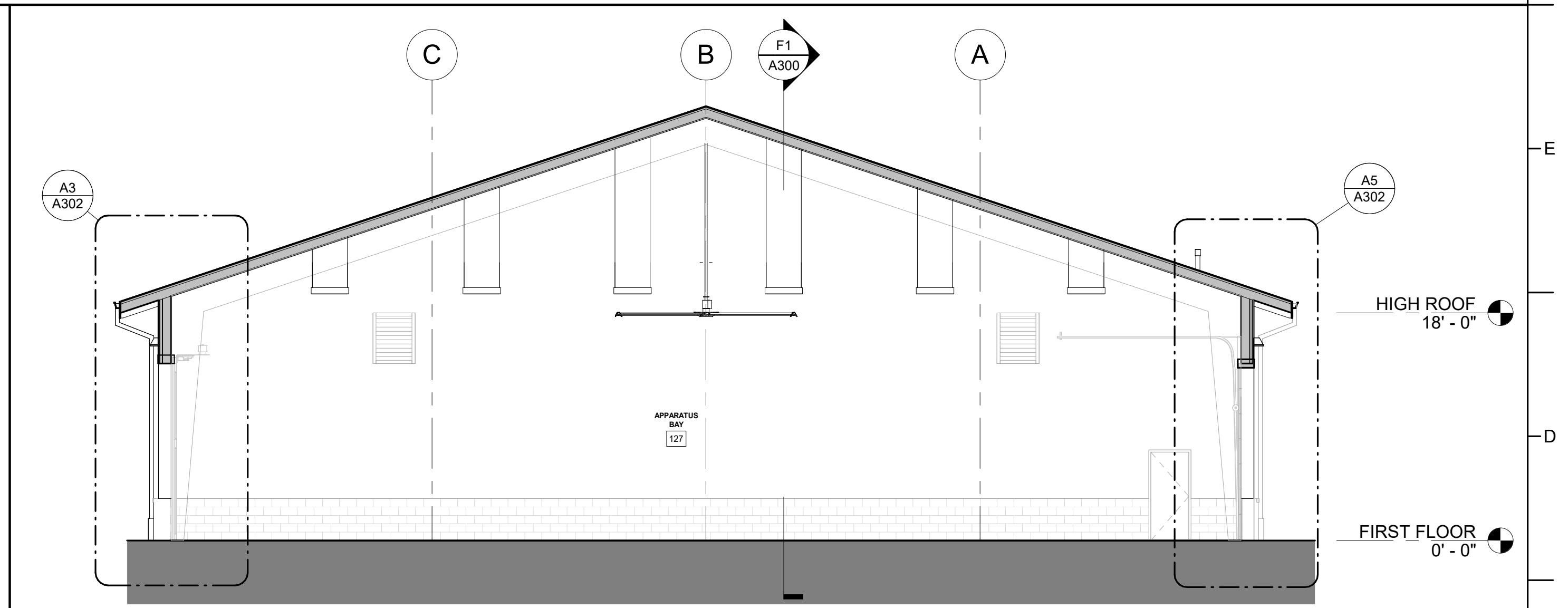
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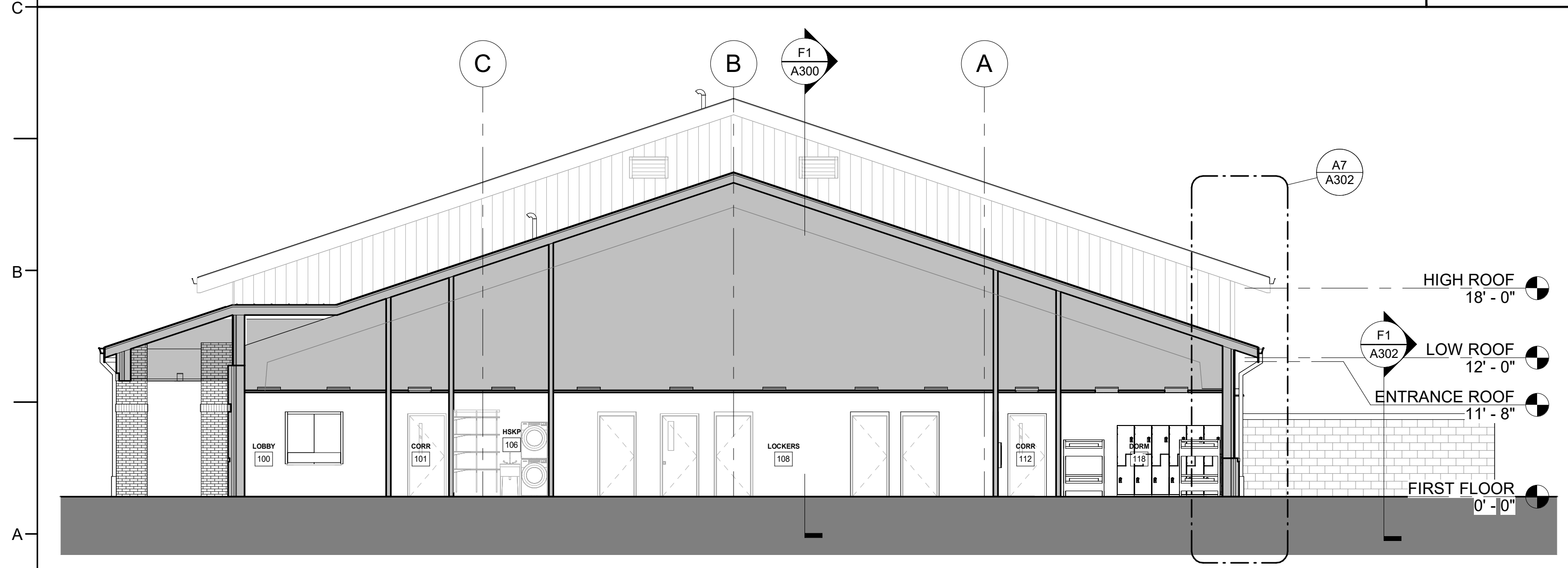
F1 BUILDING SECTION - WEST
1/8" = 1'-0"



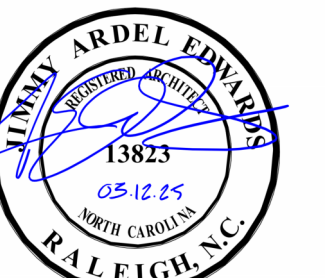
C1 BUILDING SECTION - WARDROBES, DECON, OFFICES - SOUTH
1/8" = 1'-0"



C5 BUILDING SECTION - APPARATUS BAY SOUTH
1/8" = 1'-0"



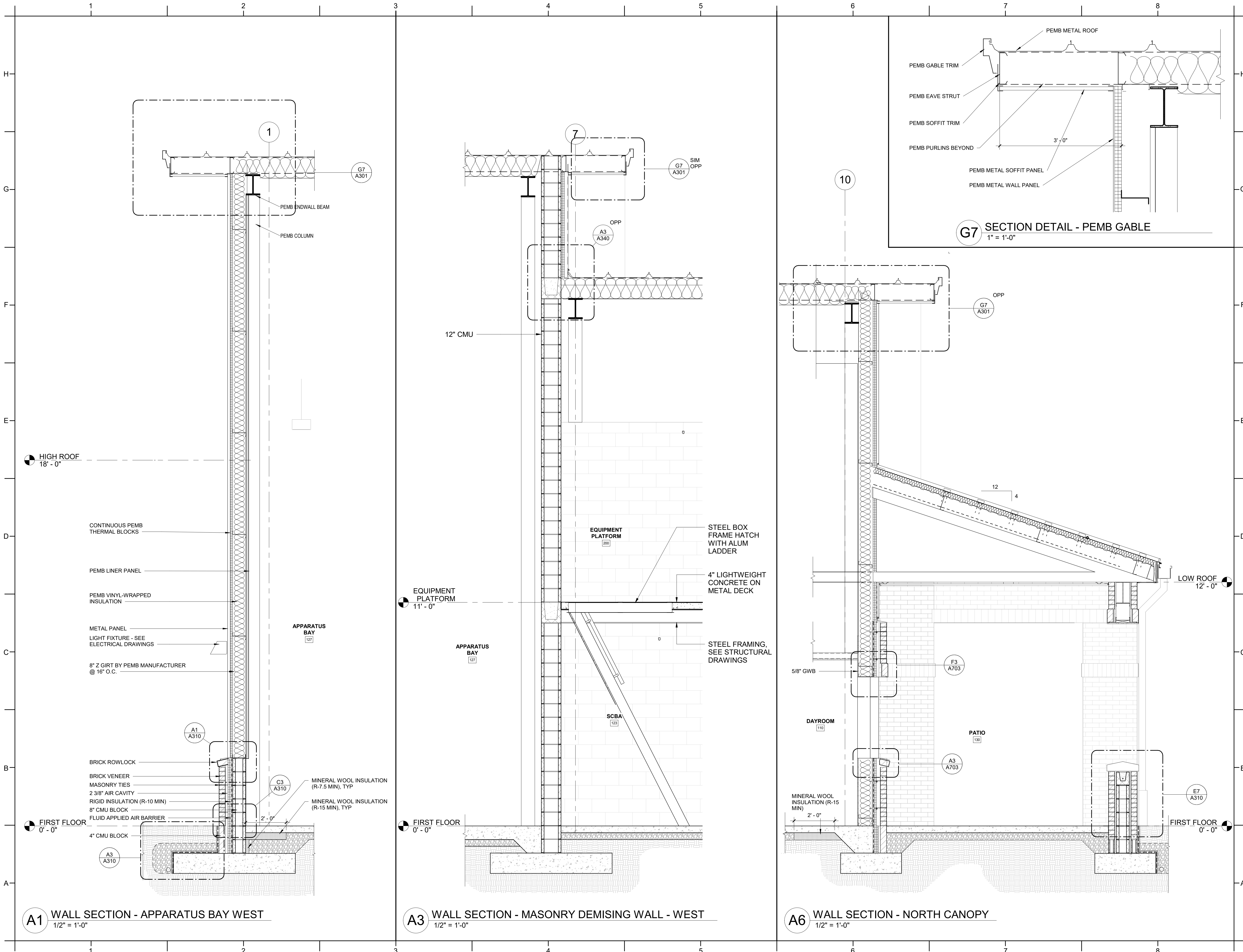
A1 BUILDING SECTION - LOCKERS, HSKP - SOUTH
1/8" = 1'-0"



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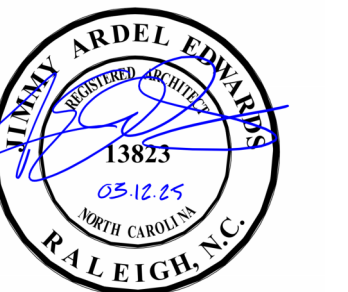
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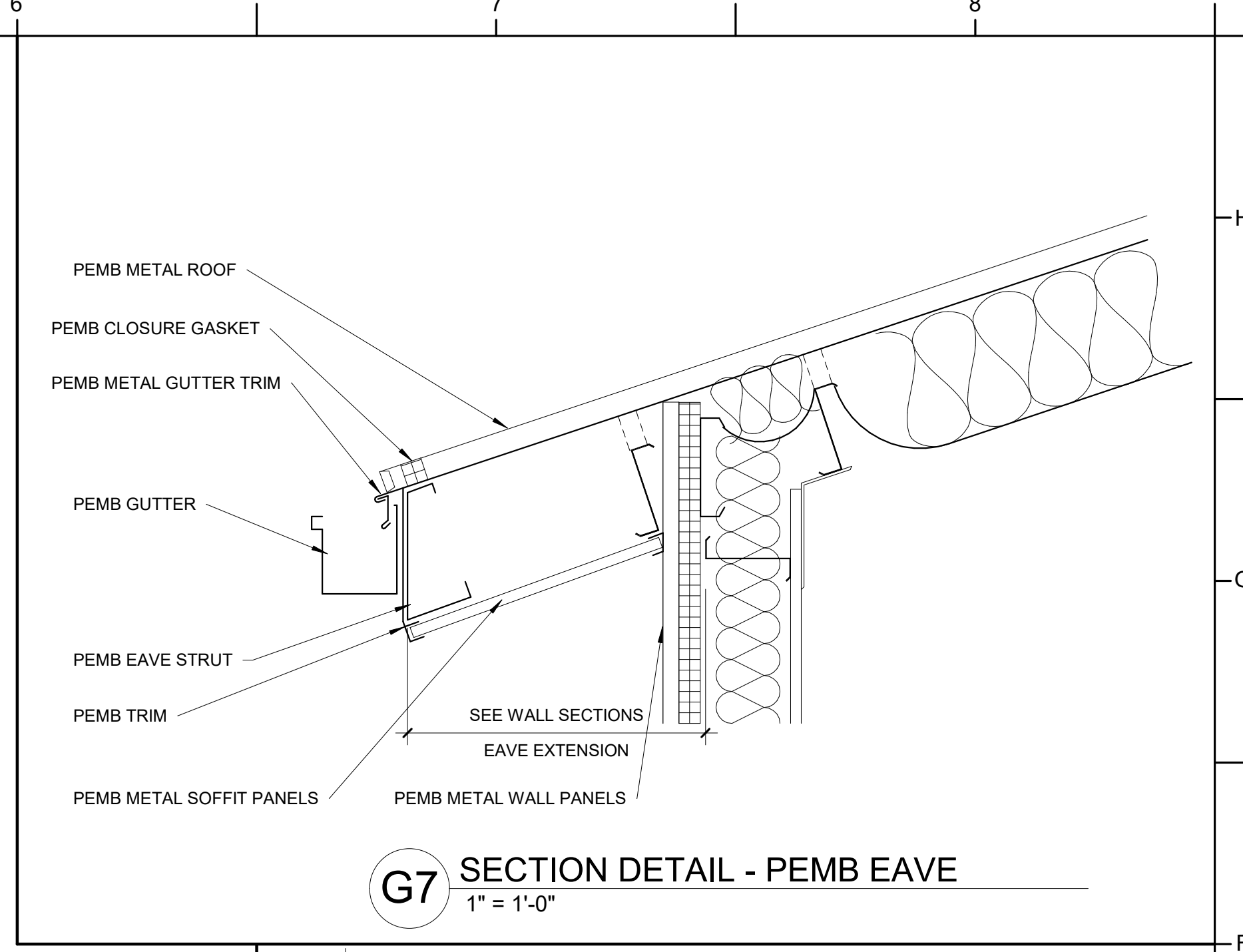
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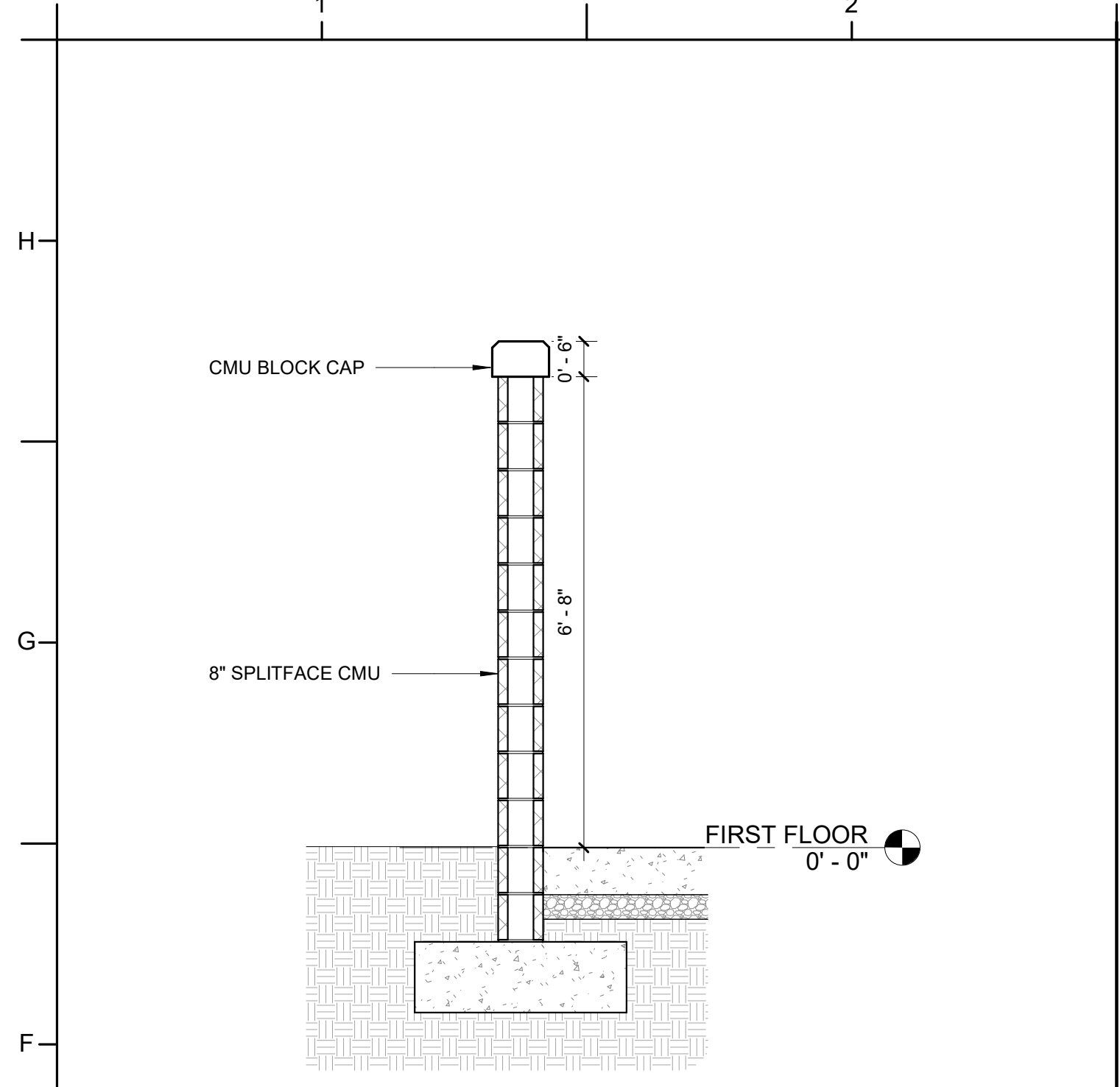
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SHEET TITLE
WALL SECTIONS

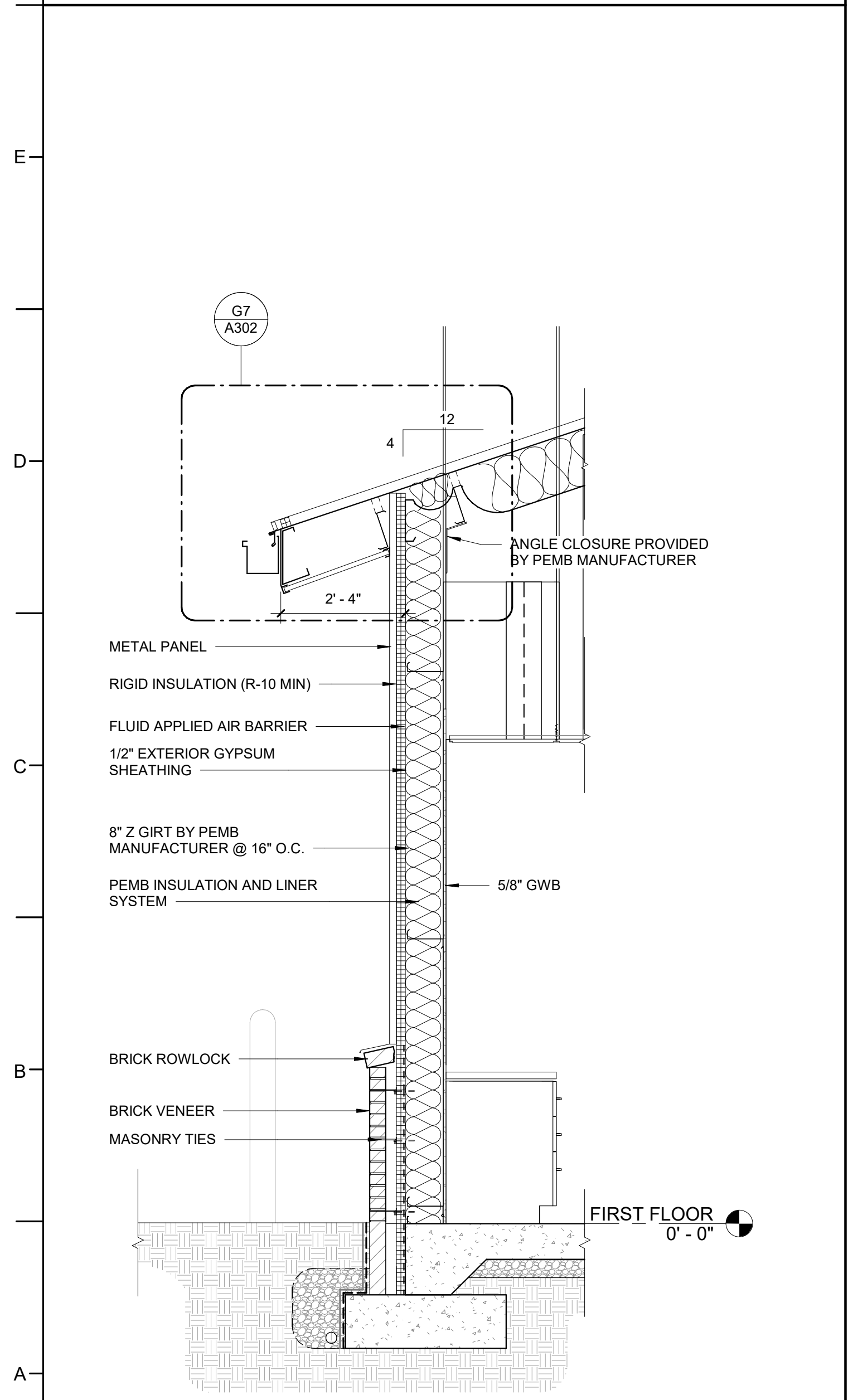
A302



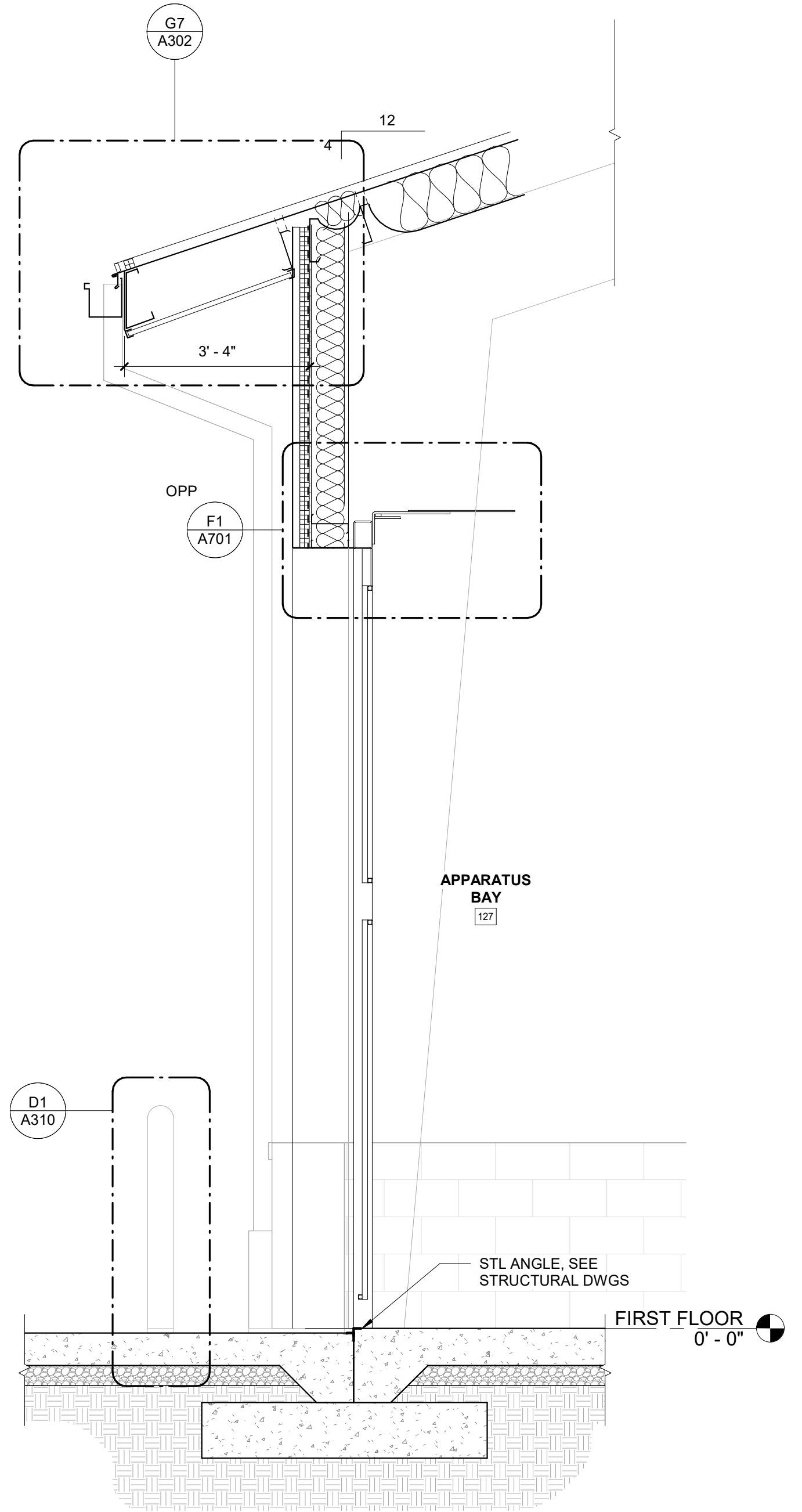
G7 SECTION DETAIL - PEMB EAVE
1" = 1'-0"



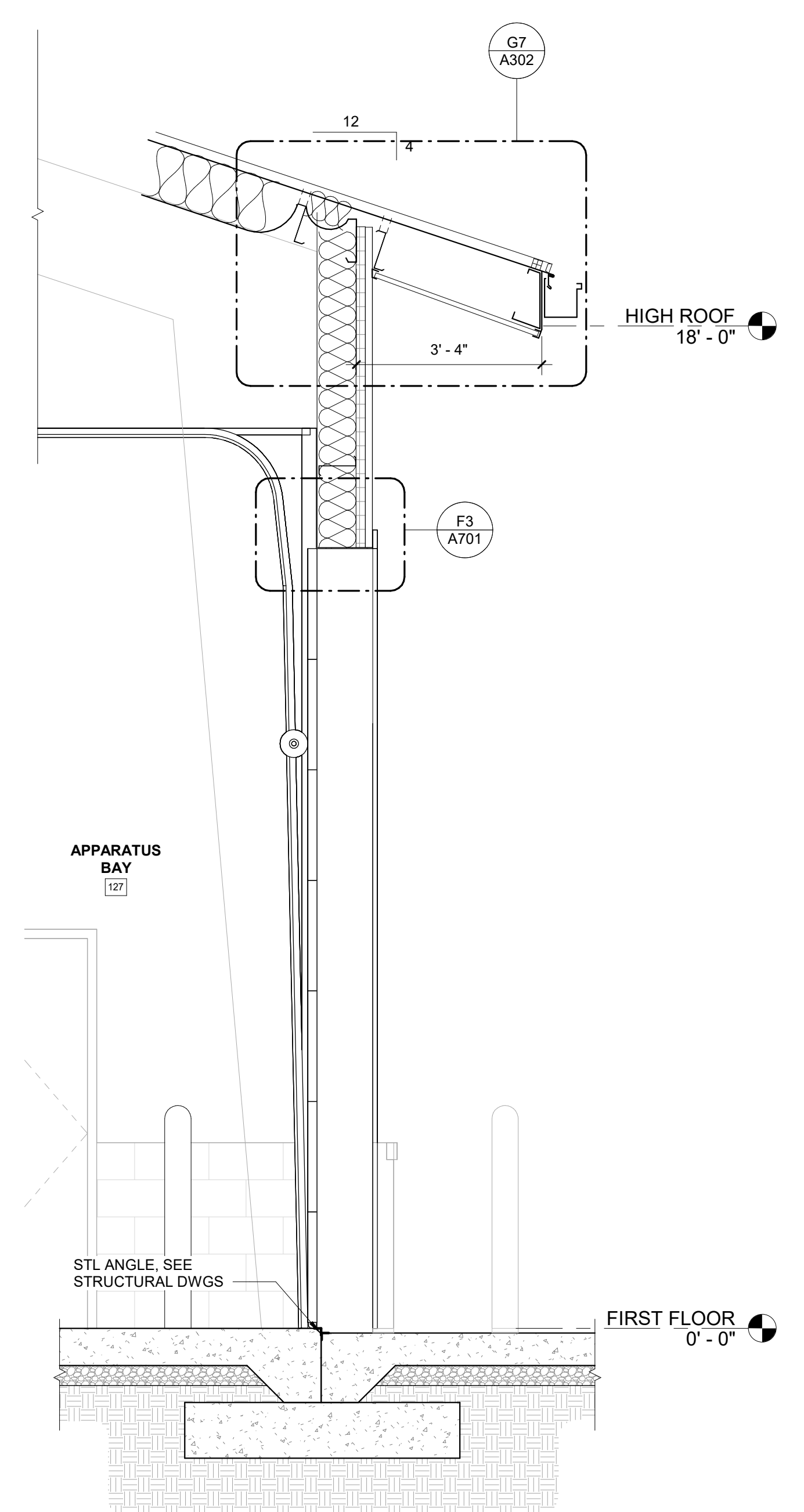
F1 WALL SECTION - CMU SCREEN WALL
1/2" = 1'-0"



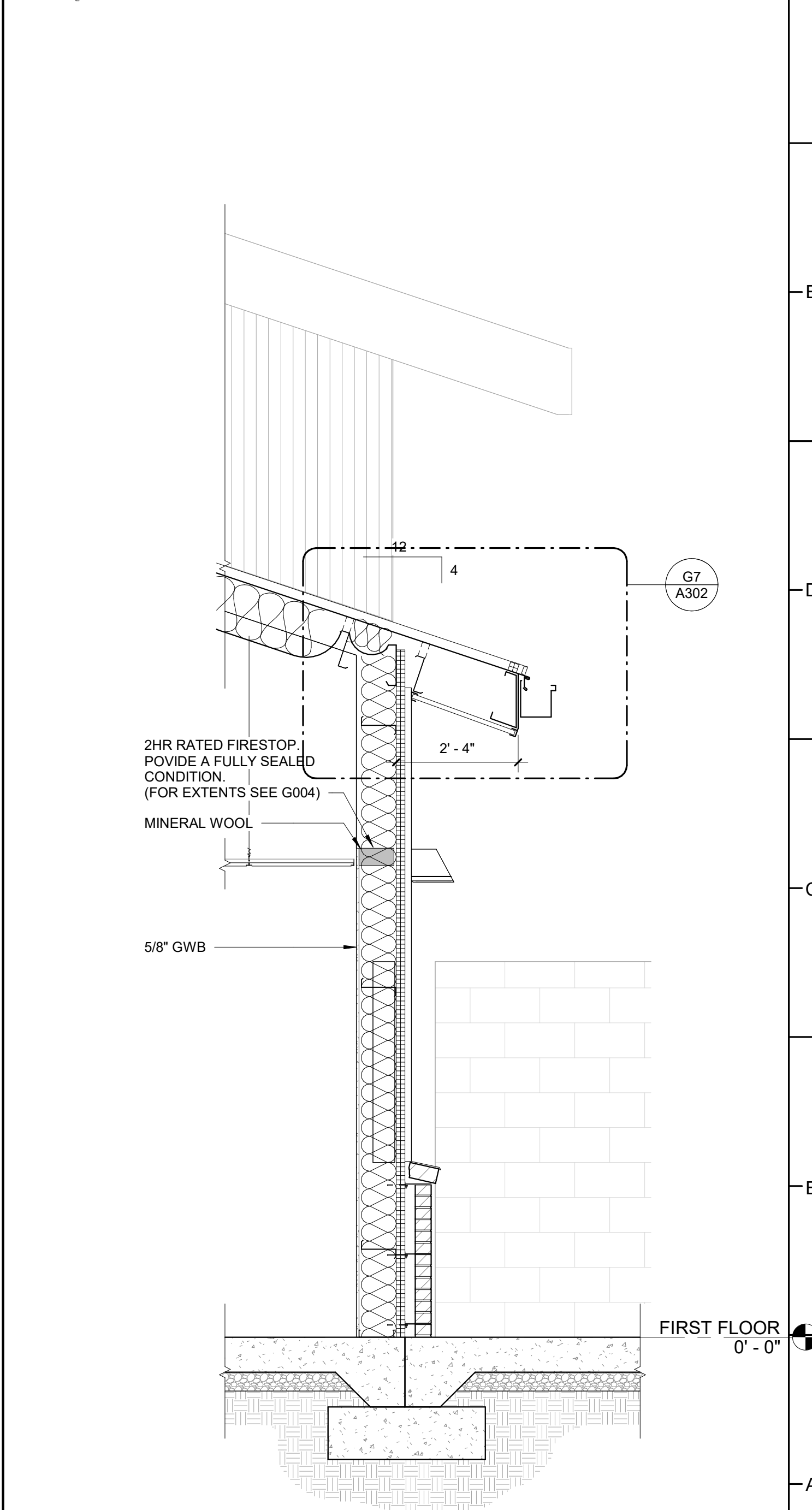
A1 WALL SECTION - TYPICAL METAL STUD WALL
1/2" = 1'-0"



A3 WALL SECTION - APPARATUS BAY FOUR FOLD DOOR
1/2" = 1'-0"



A5 WALL SECTION - APPARATUS BAY OVERHEAD DOOR
1/2" = 1'-0"



A7 WALL SECTION - DORM 118
1/2" = 1'-0"

H
G
F
E
D
C
B
A

H
G
F
E
D
C
B
A

1 2 3 4 5 6 7 8



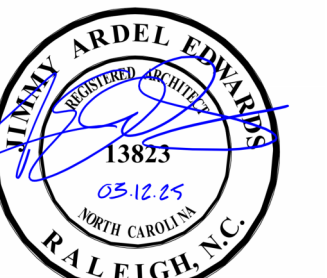
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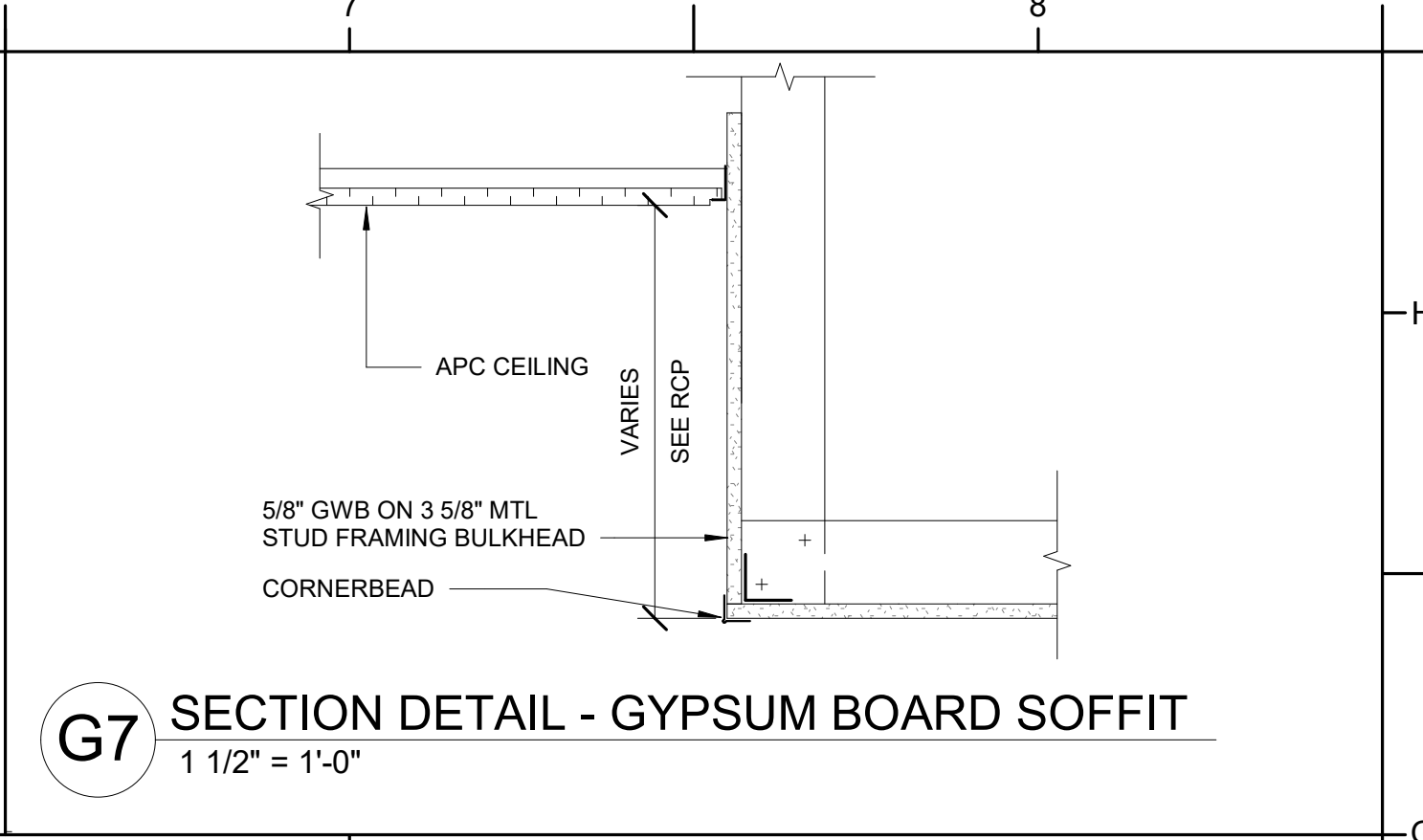
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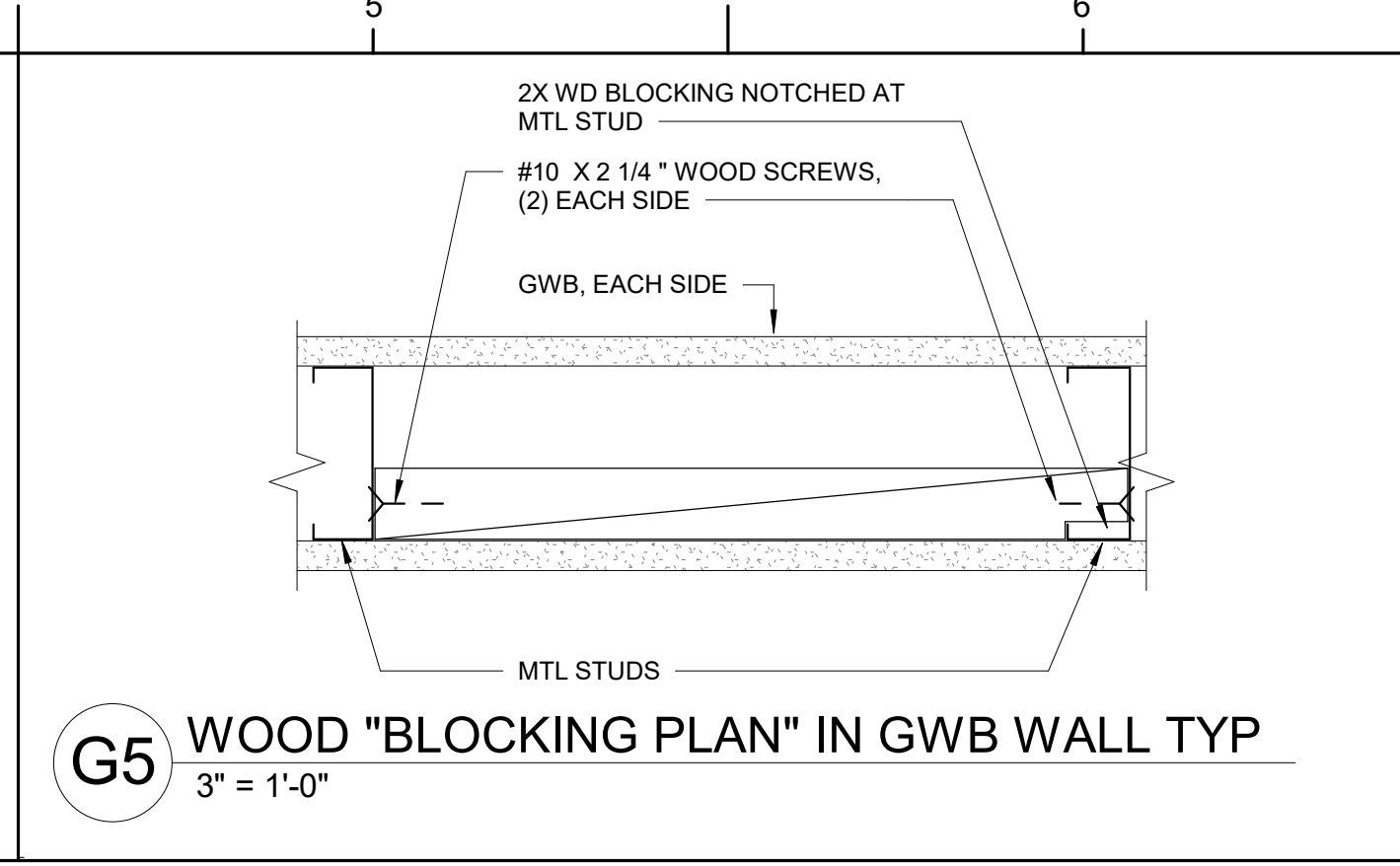
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SHEET TITLE
DETAILS

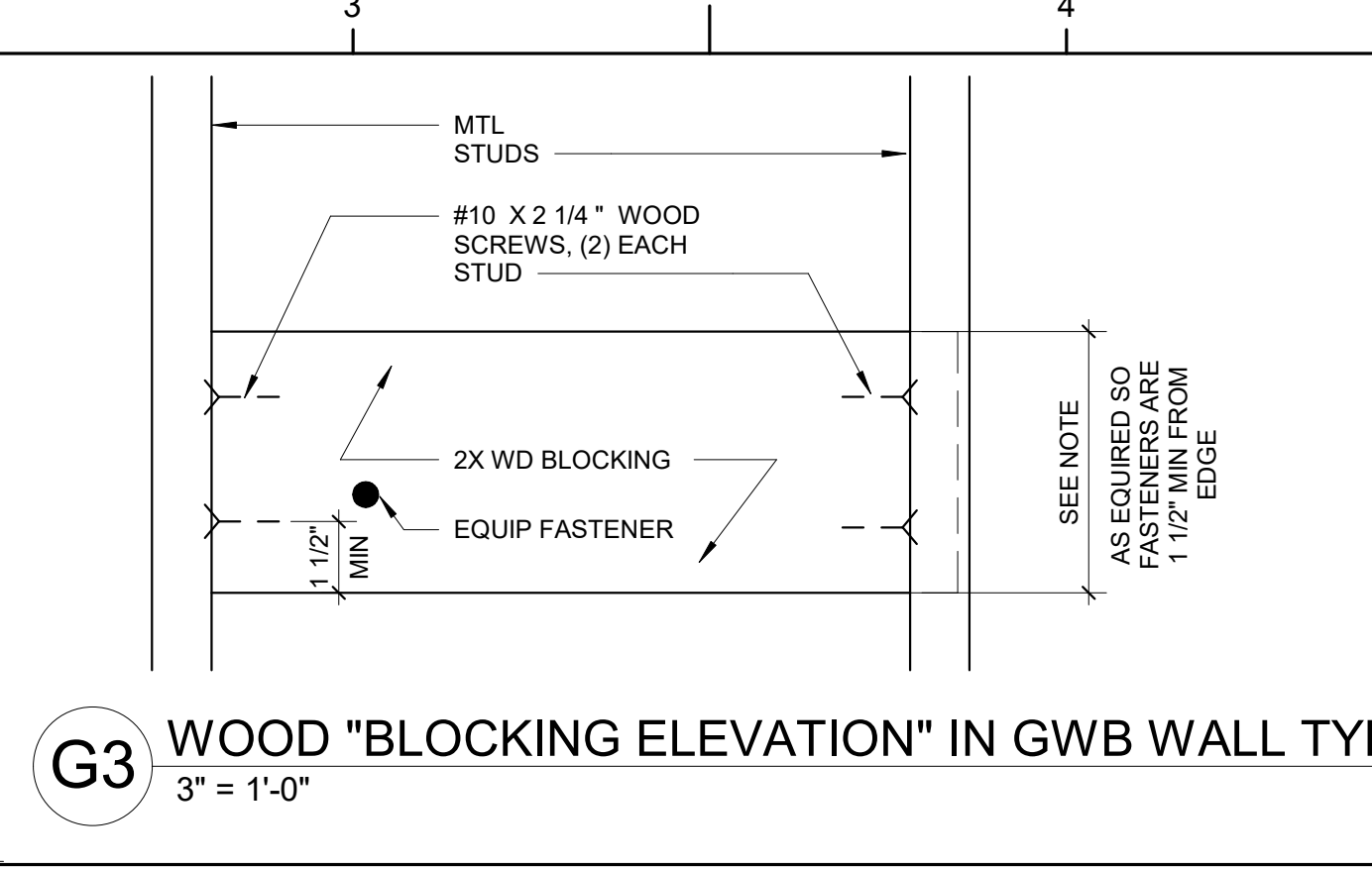
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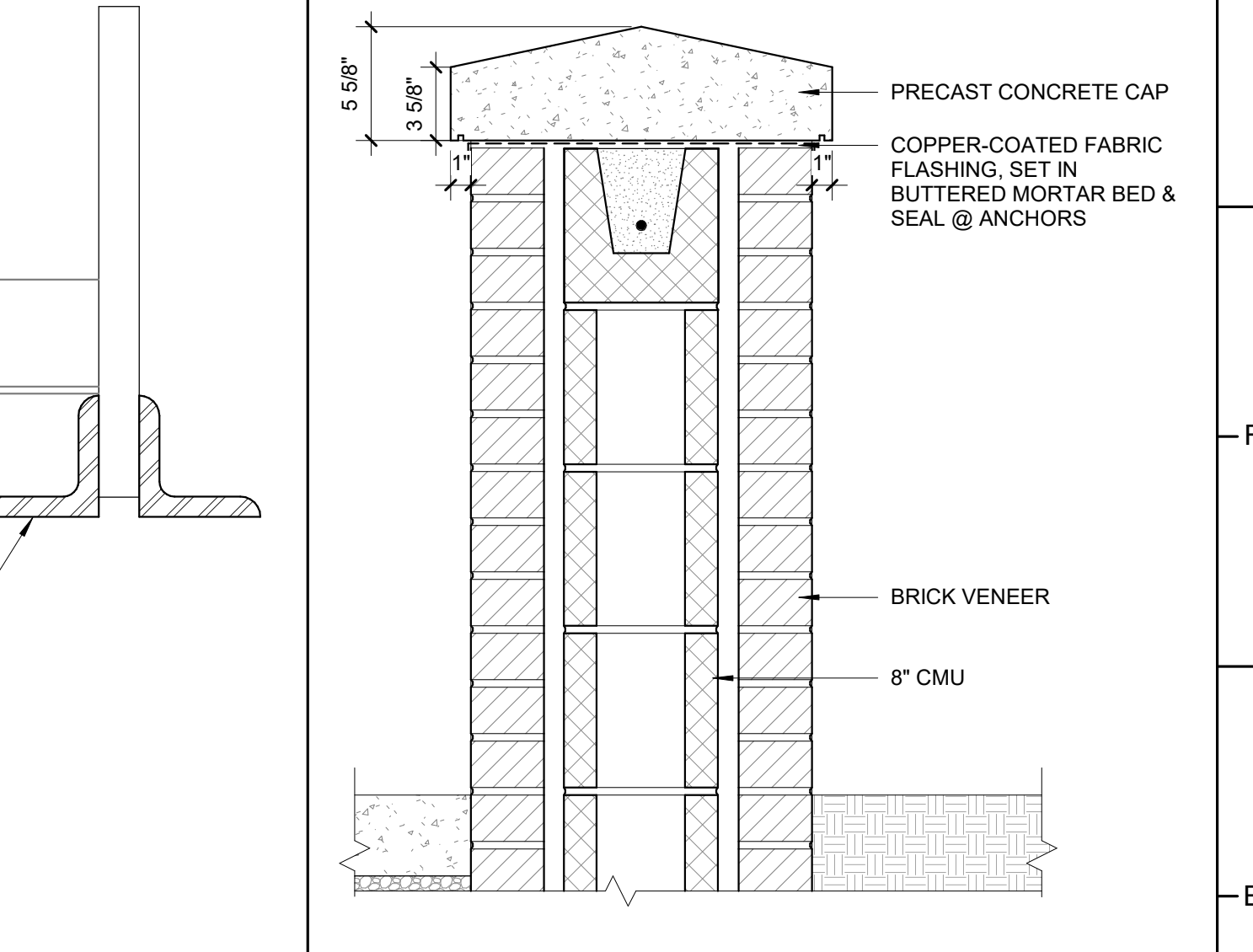
G7 SECTION DETAIL - GYPSUM BOARD SOFFIT
1 1/2" = 1'-0"



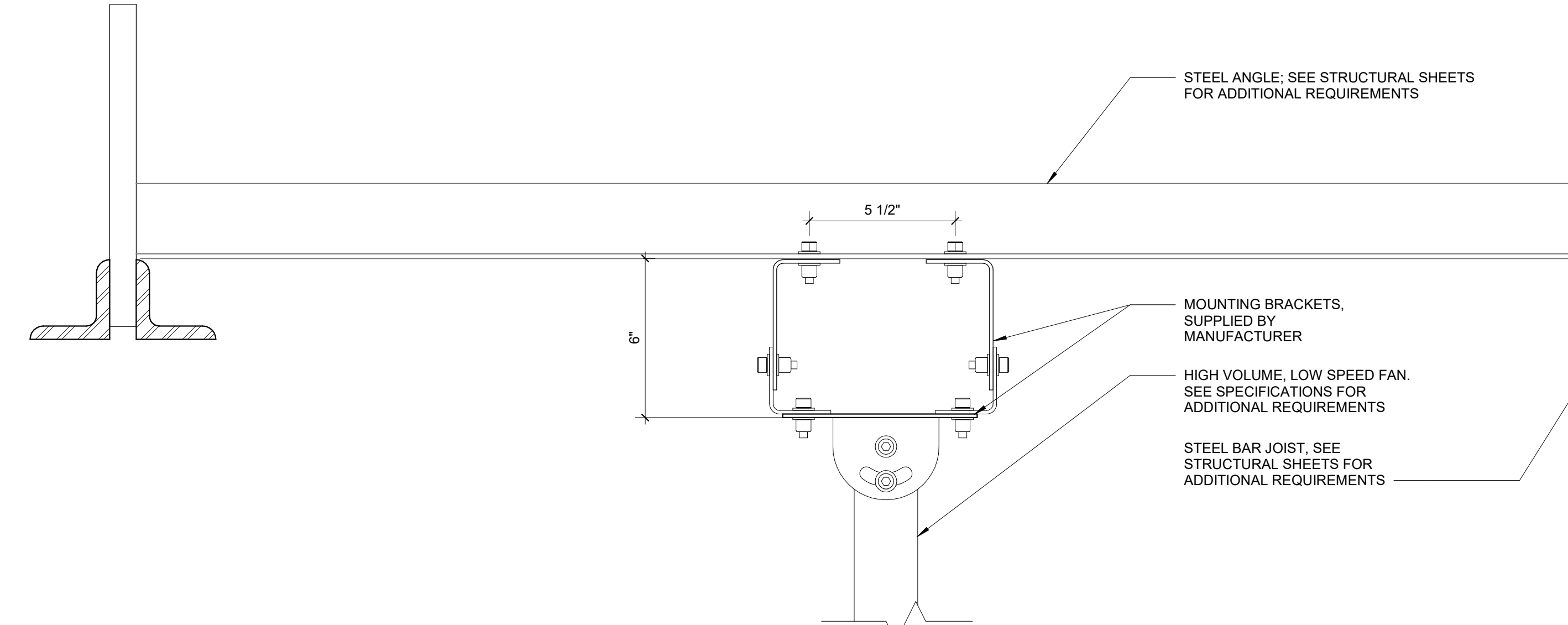
G5 WOOD "BLOCKING PLAN" IN GWB WALL TYP
3" = 1'-0"



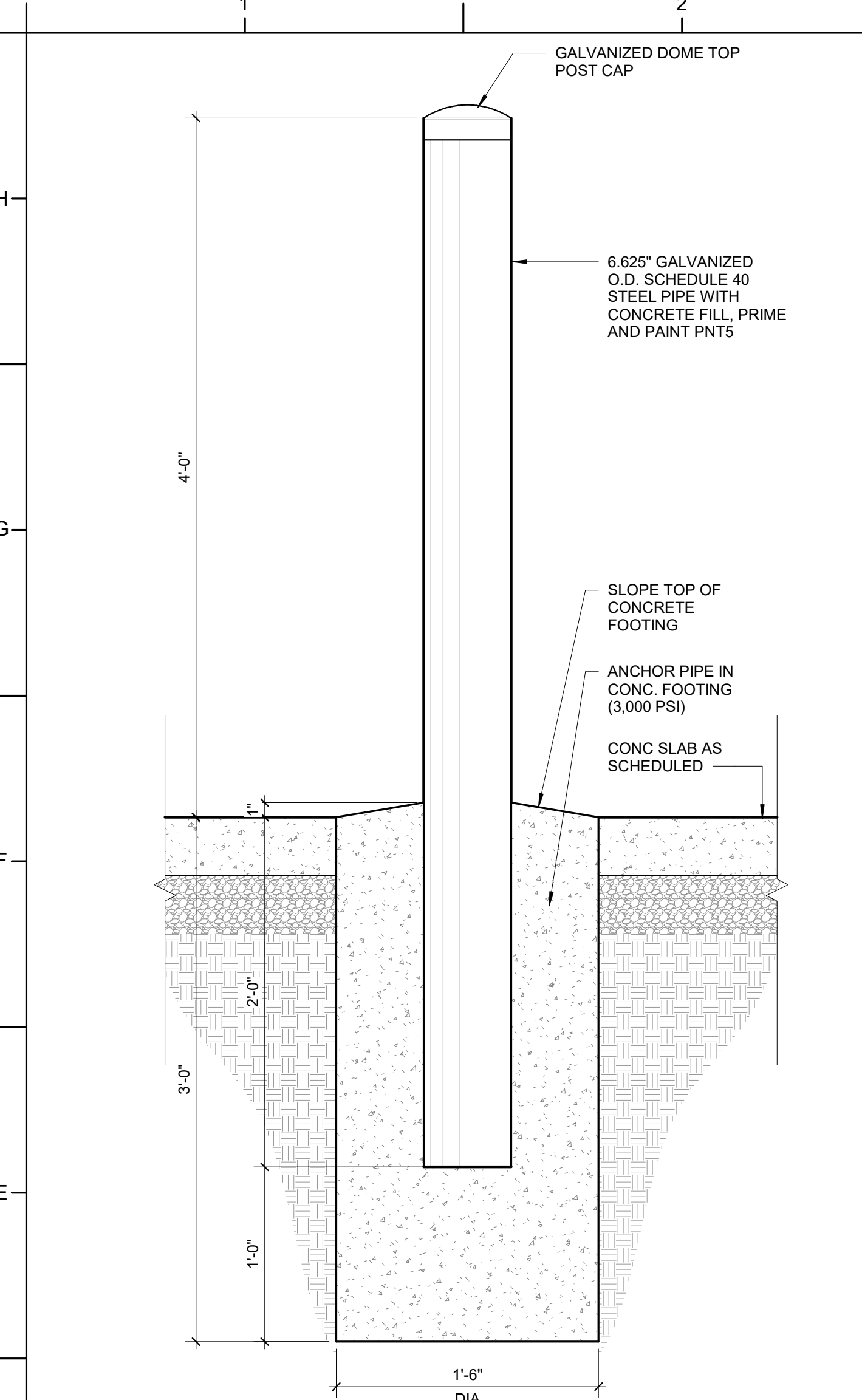
G3 WOOD "BLOCKING ELEVATION" IN GWB WALL TYP
3" = 1'-0"



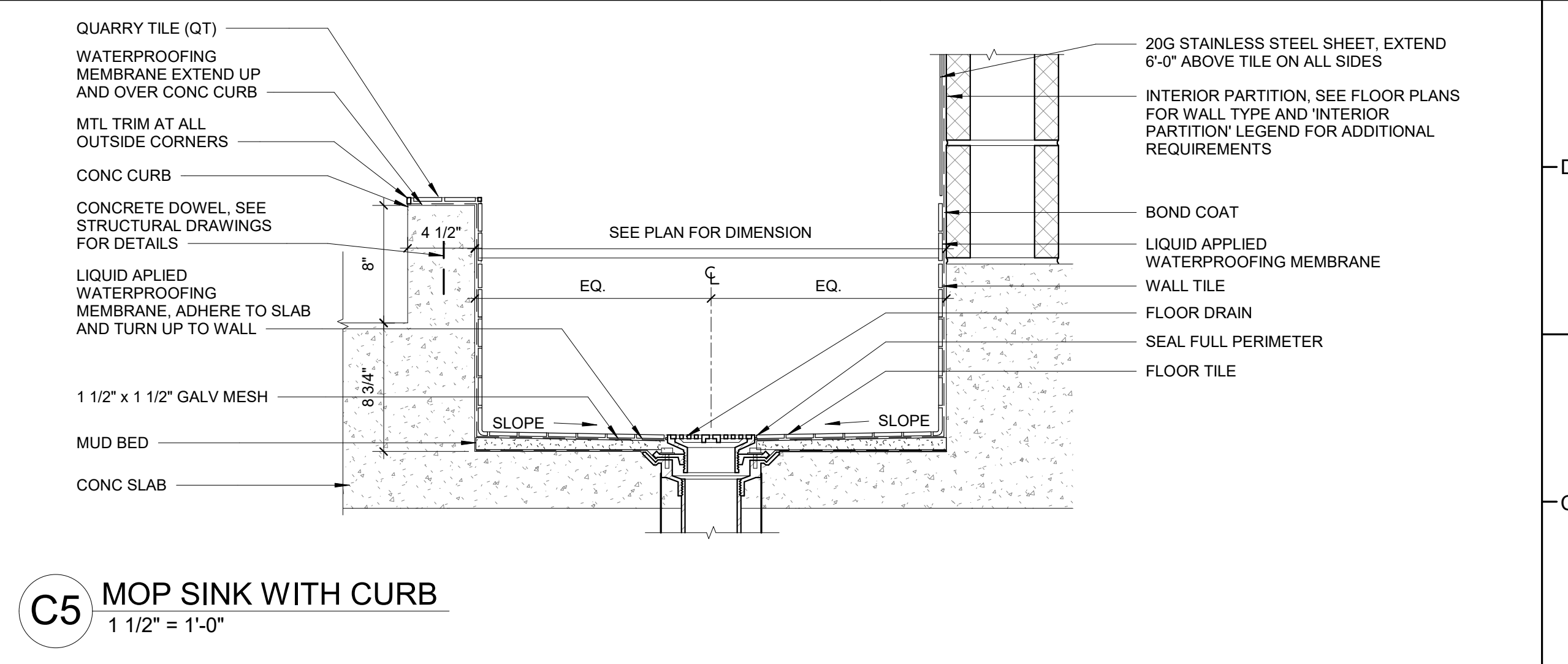
E7 SECTION DETAIL - KNEE WALL
1 1/2" = 1'-0"



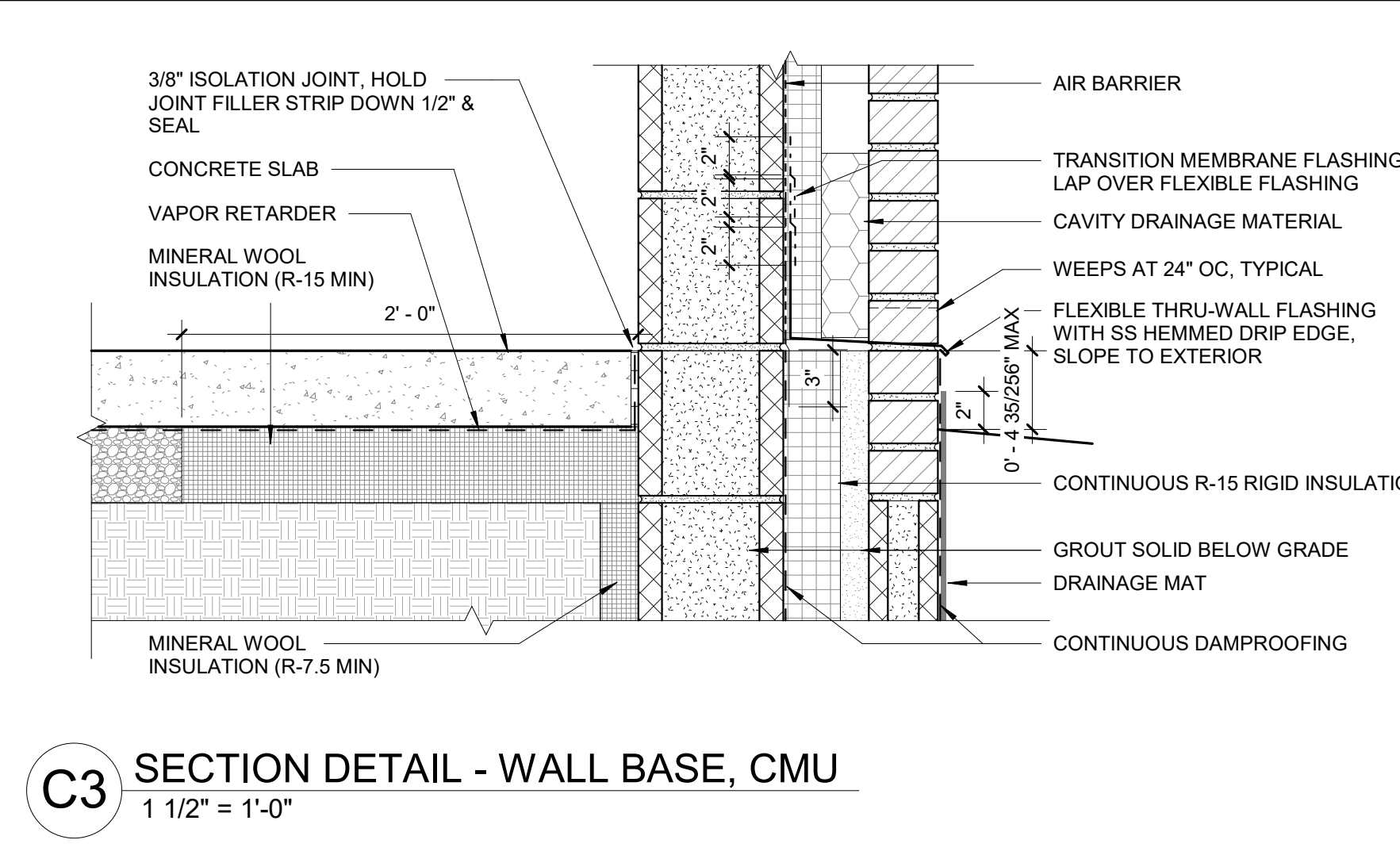
E3 SECTION DETAIL - FAN ATTACHMENT AT APPARATUS BAY
3" = 1'-0"



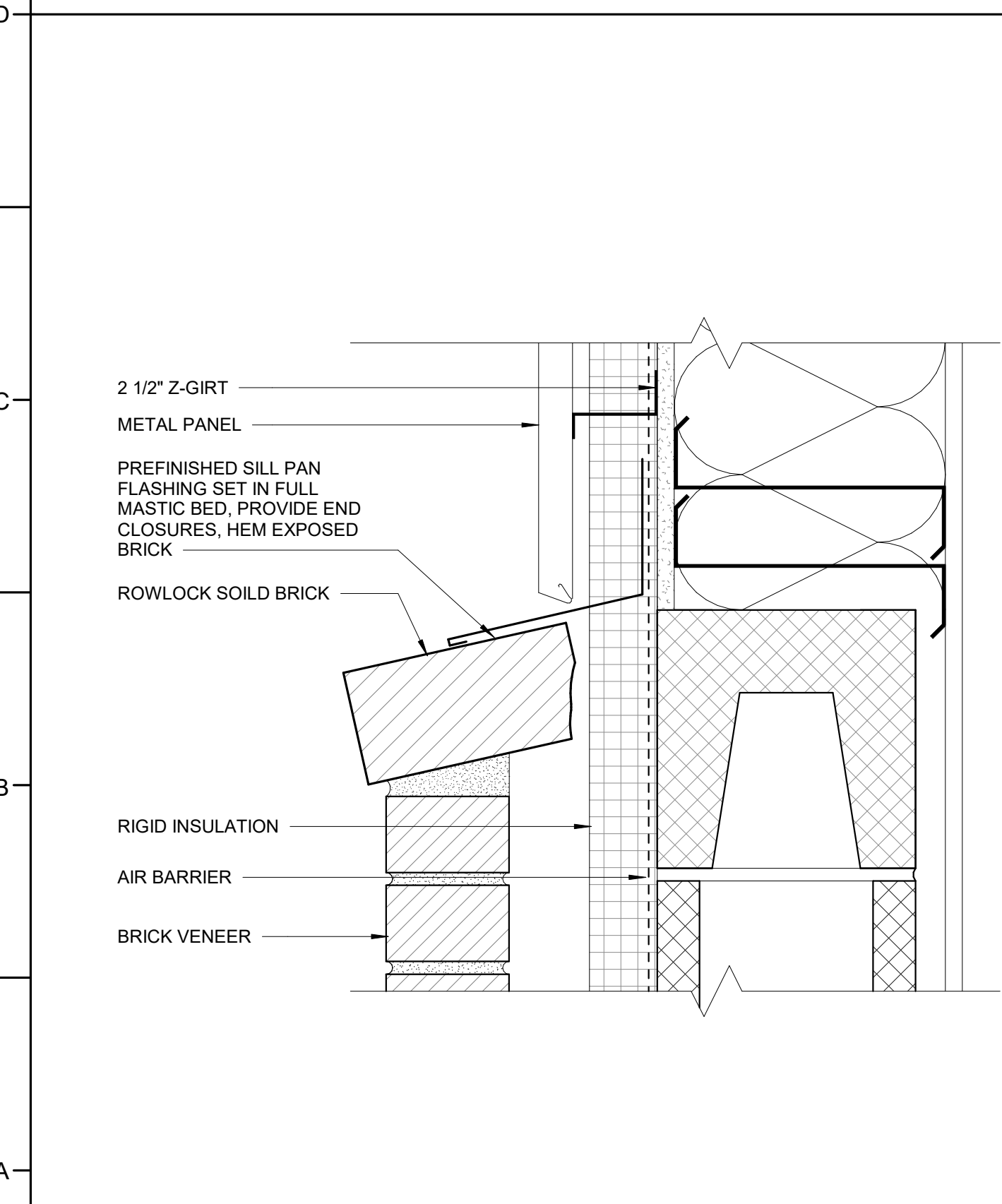
D1 SECTION DETAIL - PIPE BOLLARD
1 1/2" = 1'-0"



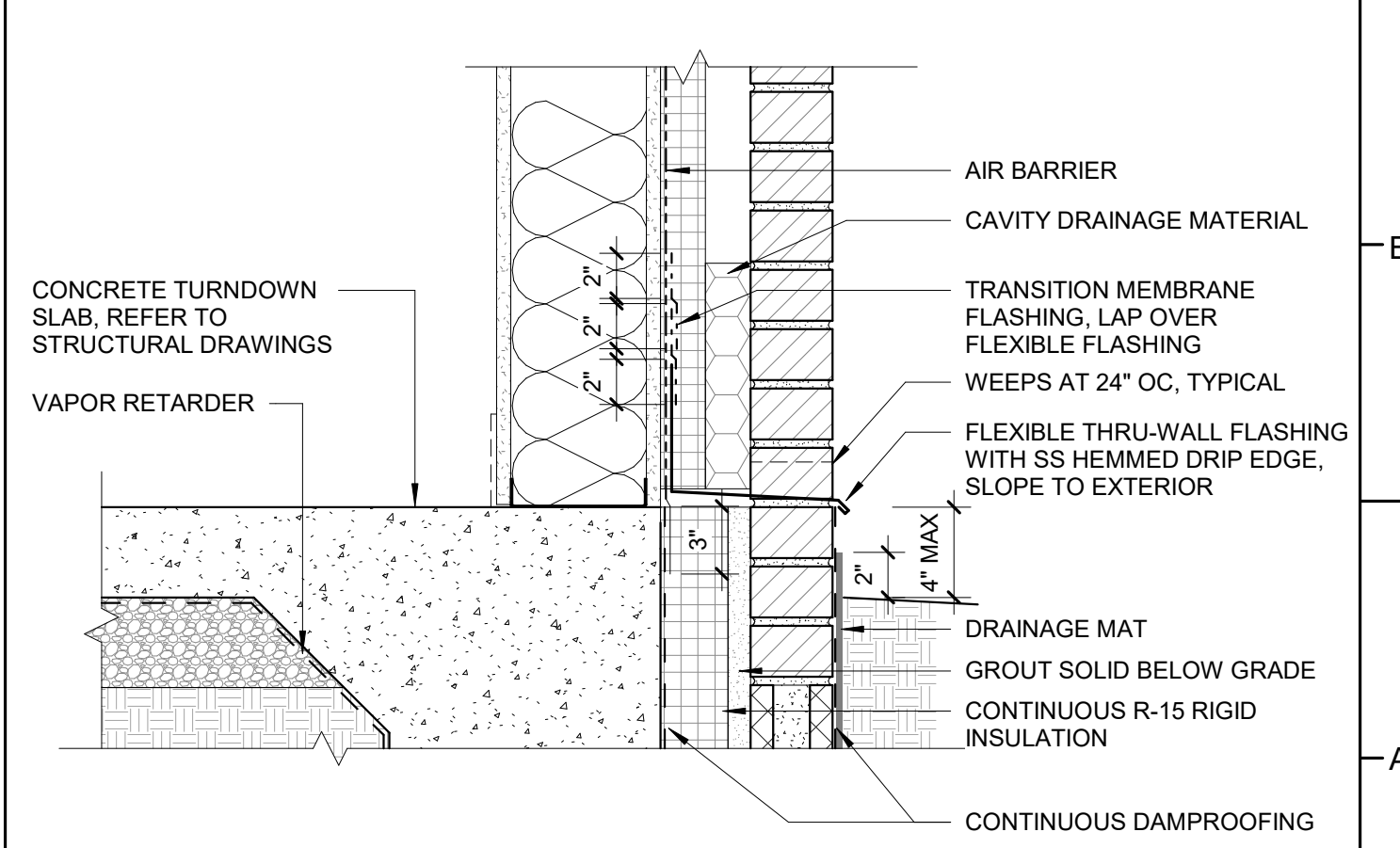
C5 MOP SINK WITH CURB
1 1/2" = 1'-0"



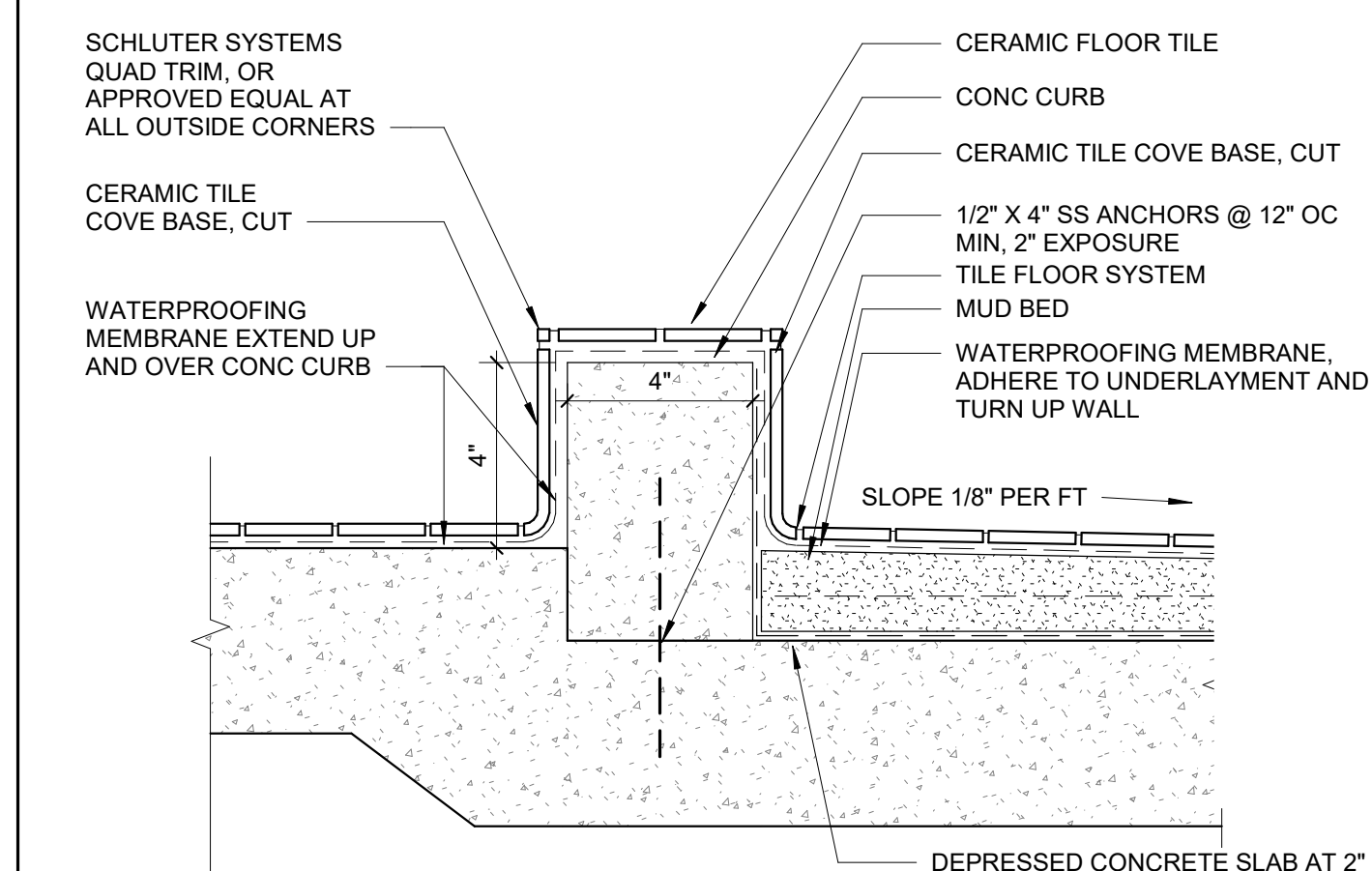
C3 SECTION DETAIL - WALL BASE, CMU
1 1/2" = 1'-0"



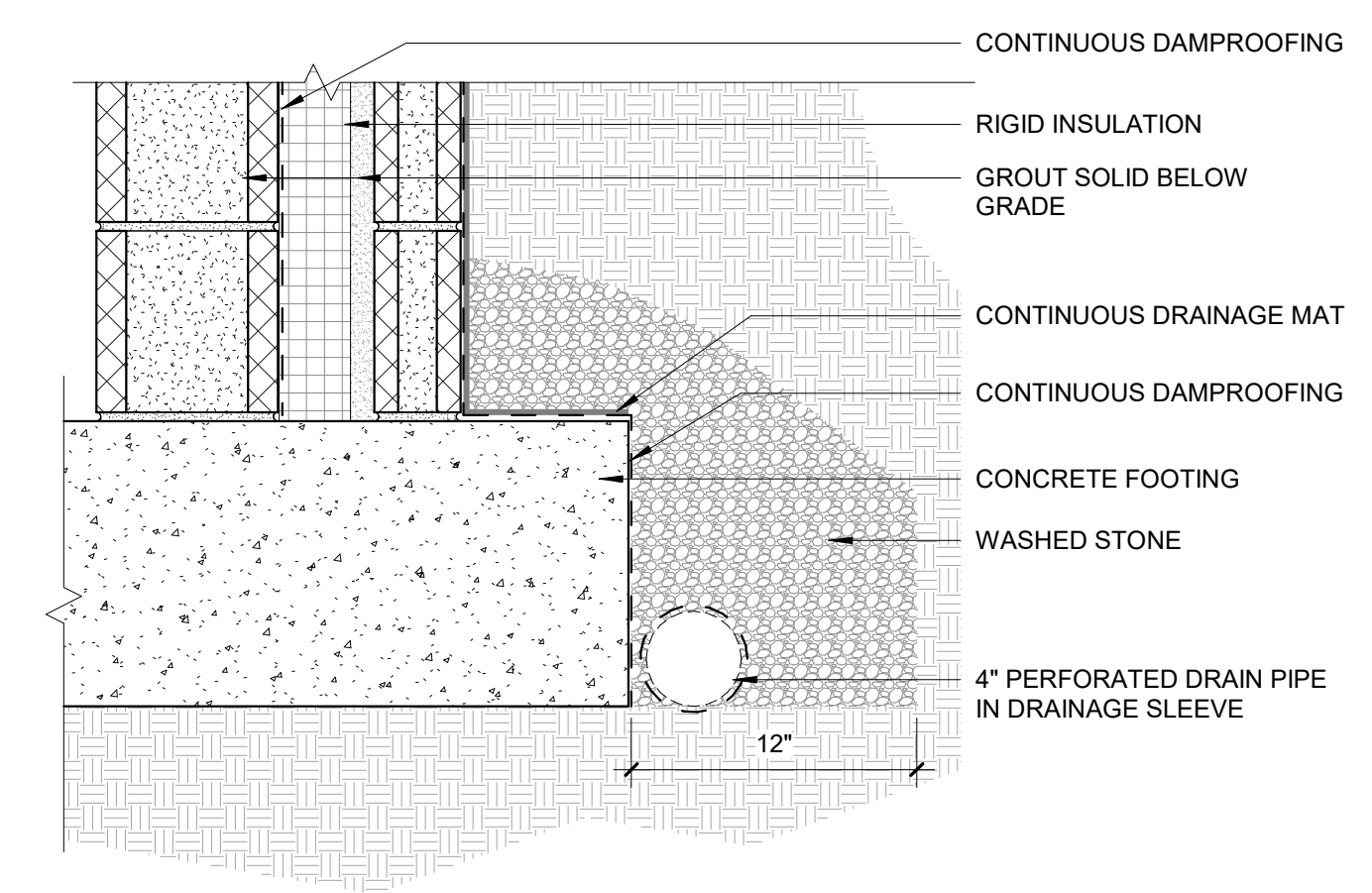
A1 SECTION DETAIL - METAL PANEL TO BRICK
3" = 1'-0"



A7 SECTION DETAIL - WALL BASE, STUD
1 1/2" = 1'-0"



A5 SHOWER CURB DETAIL AT NON-ADA SHOWERS
3" = 1'-0"



A3 TYP FOUNDATION DRAIN
1 1/2" = 1'-0"



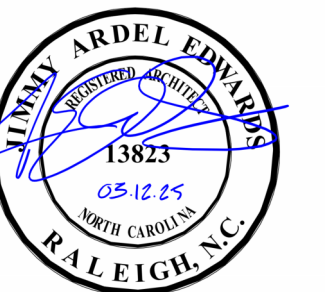
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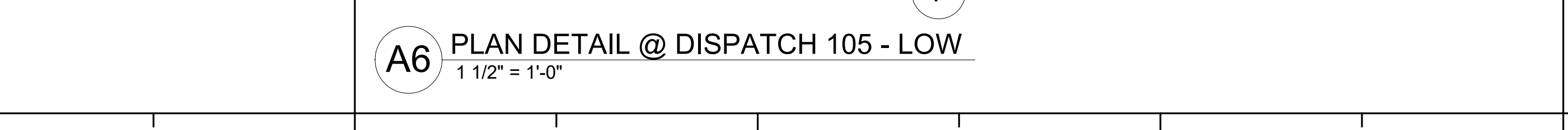
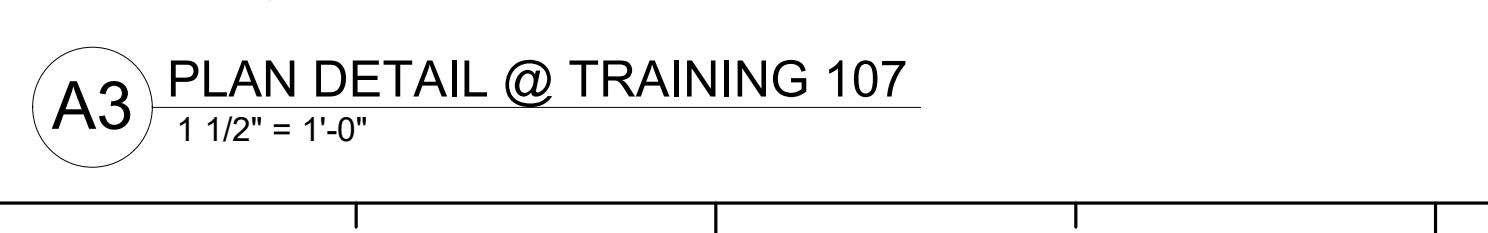
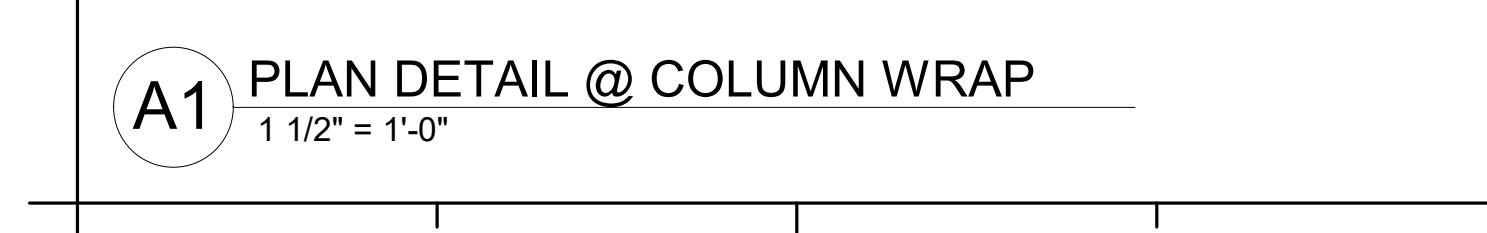
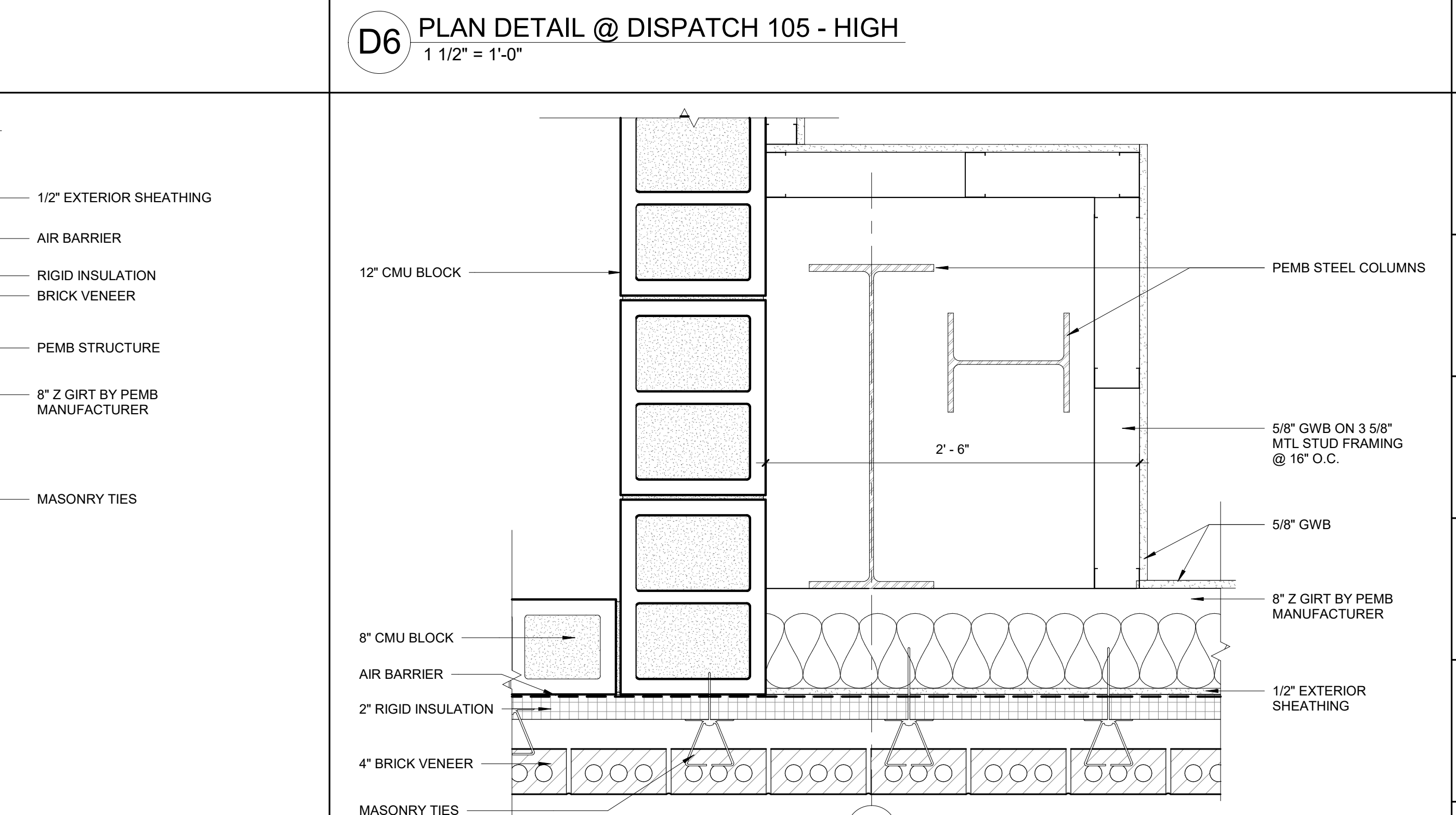
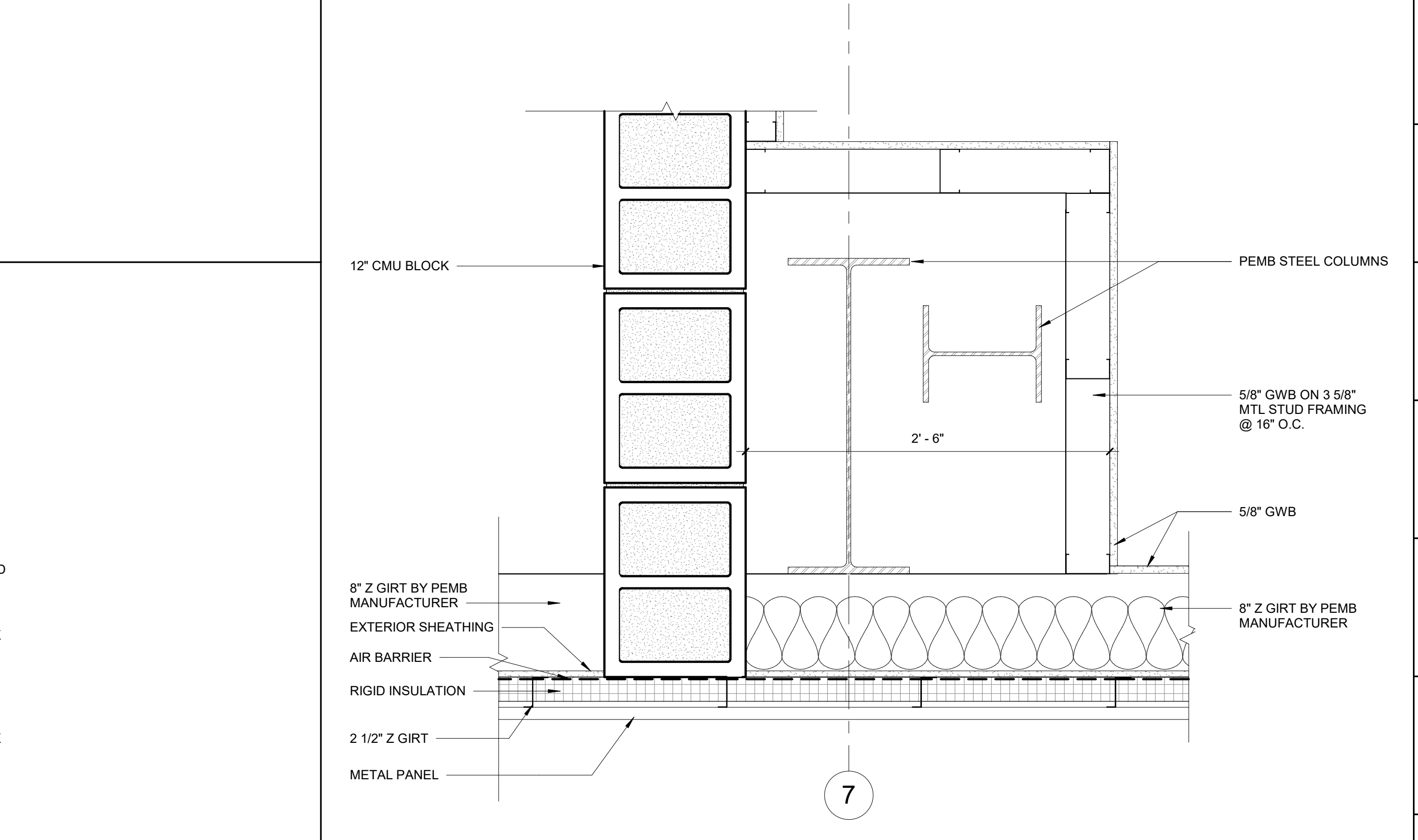
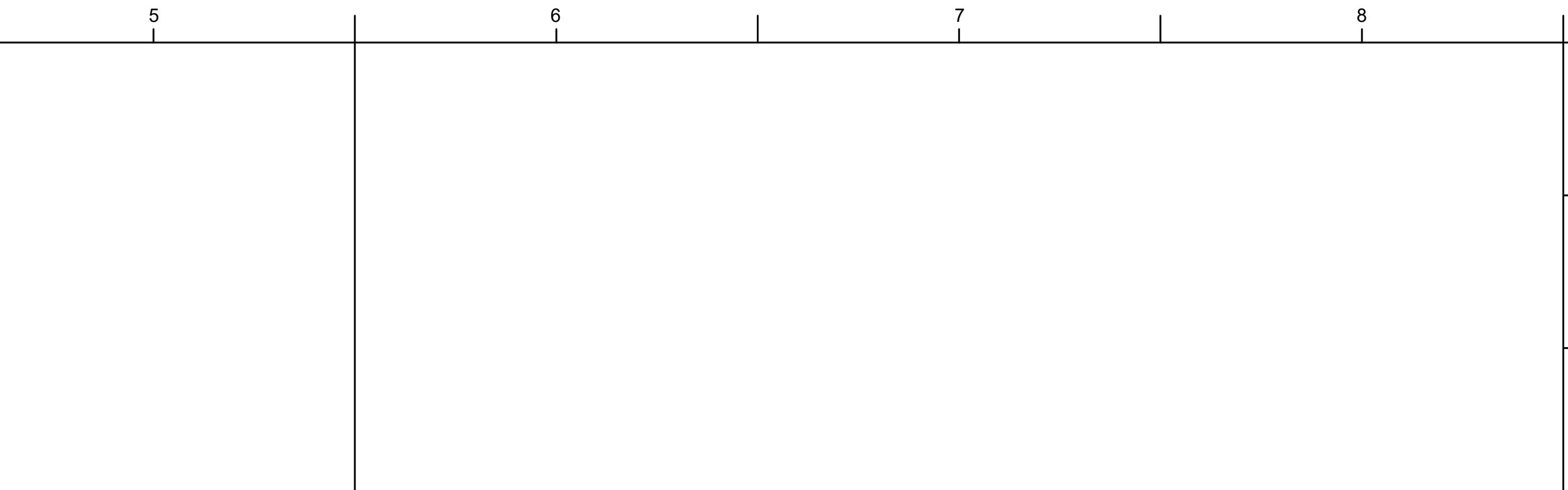
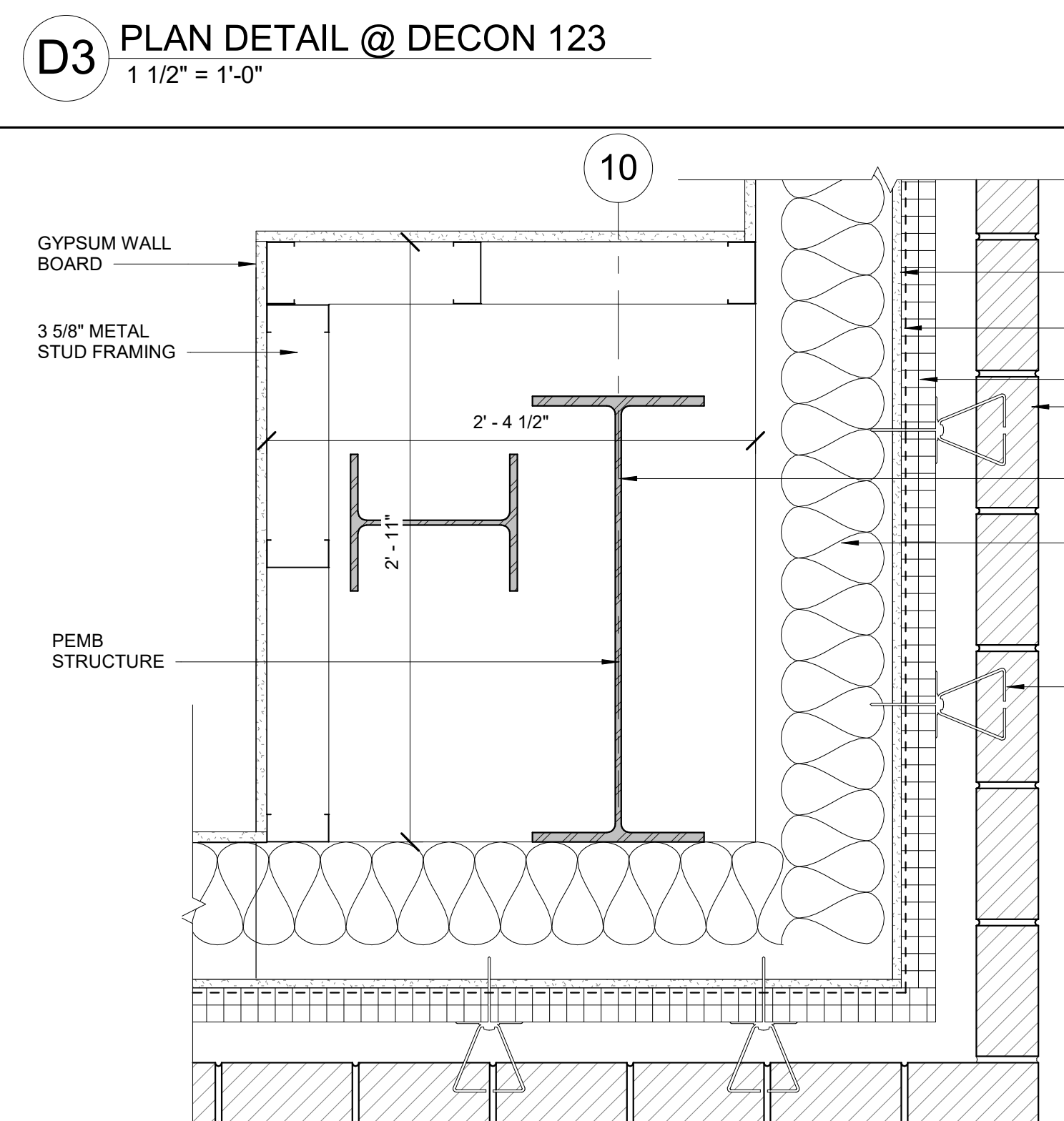
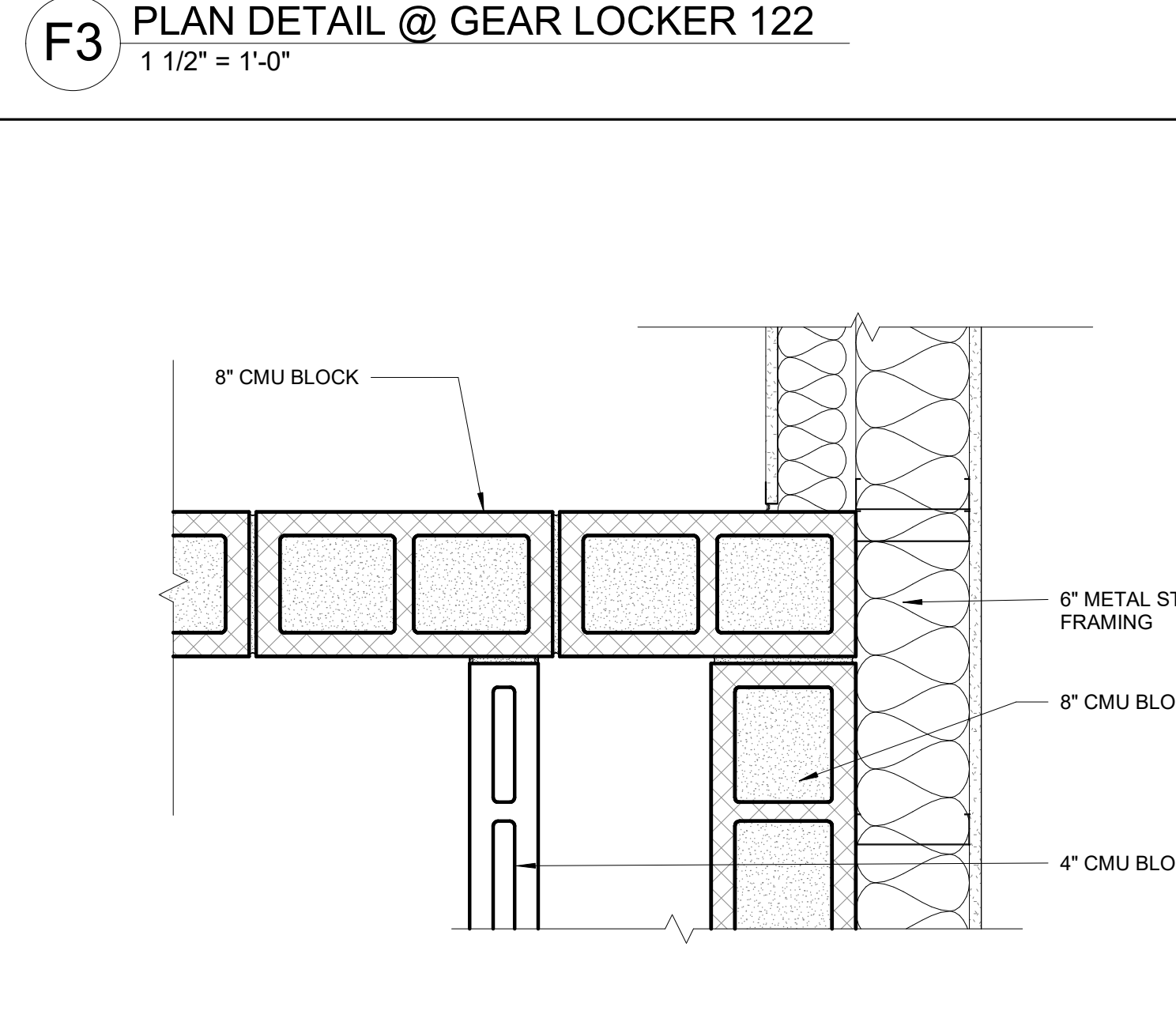
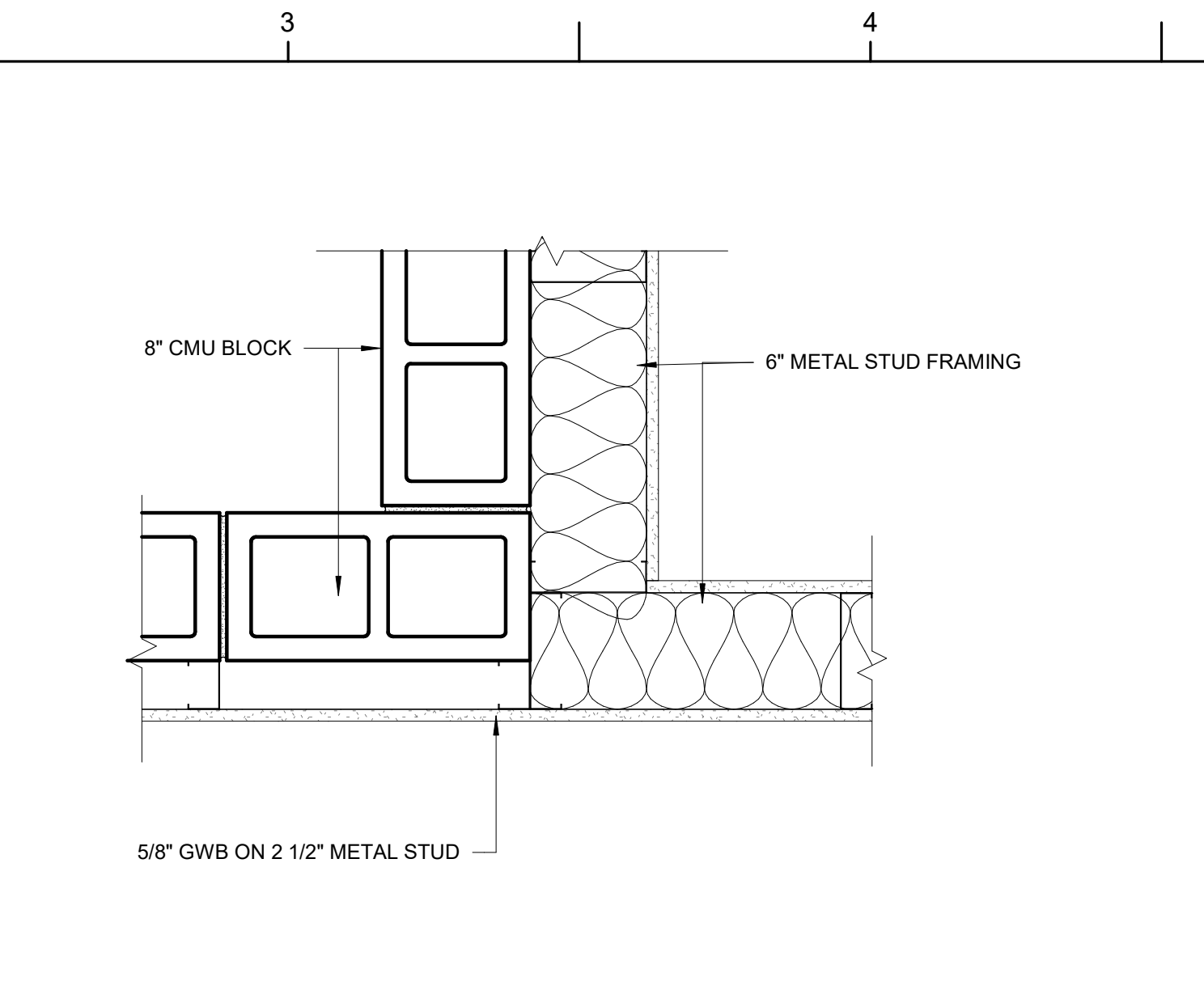
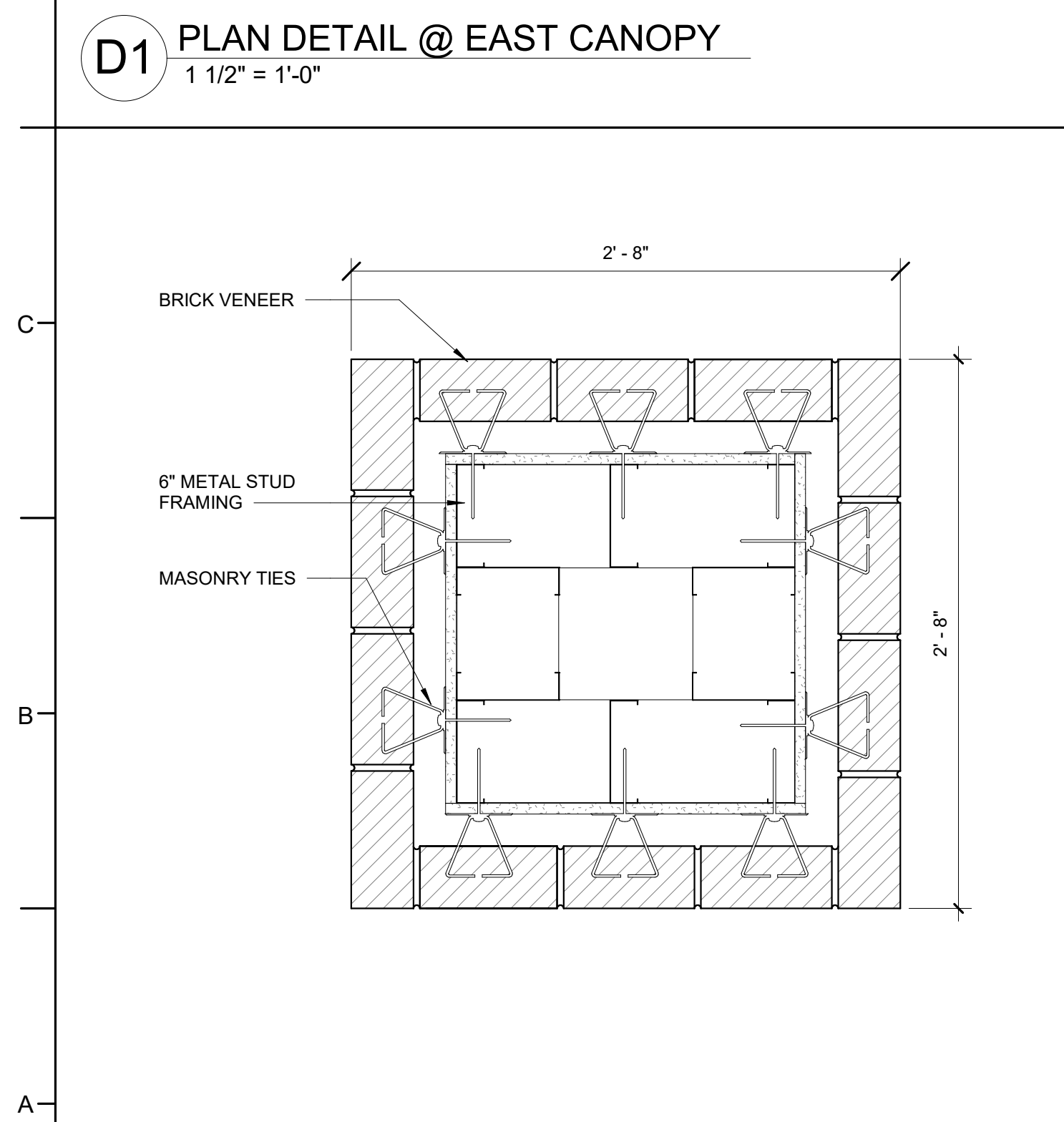
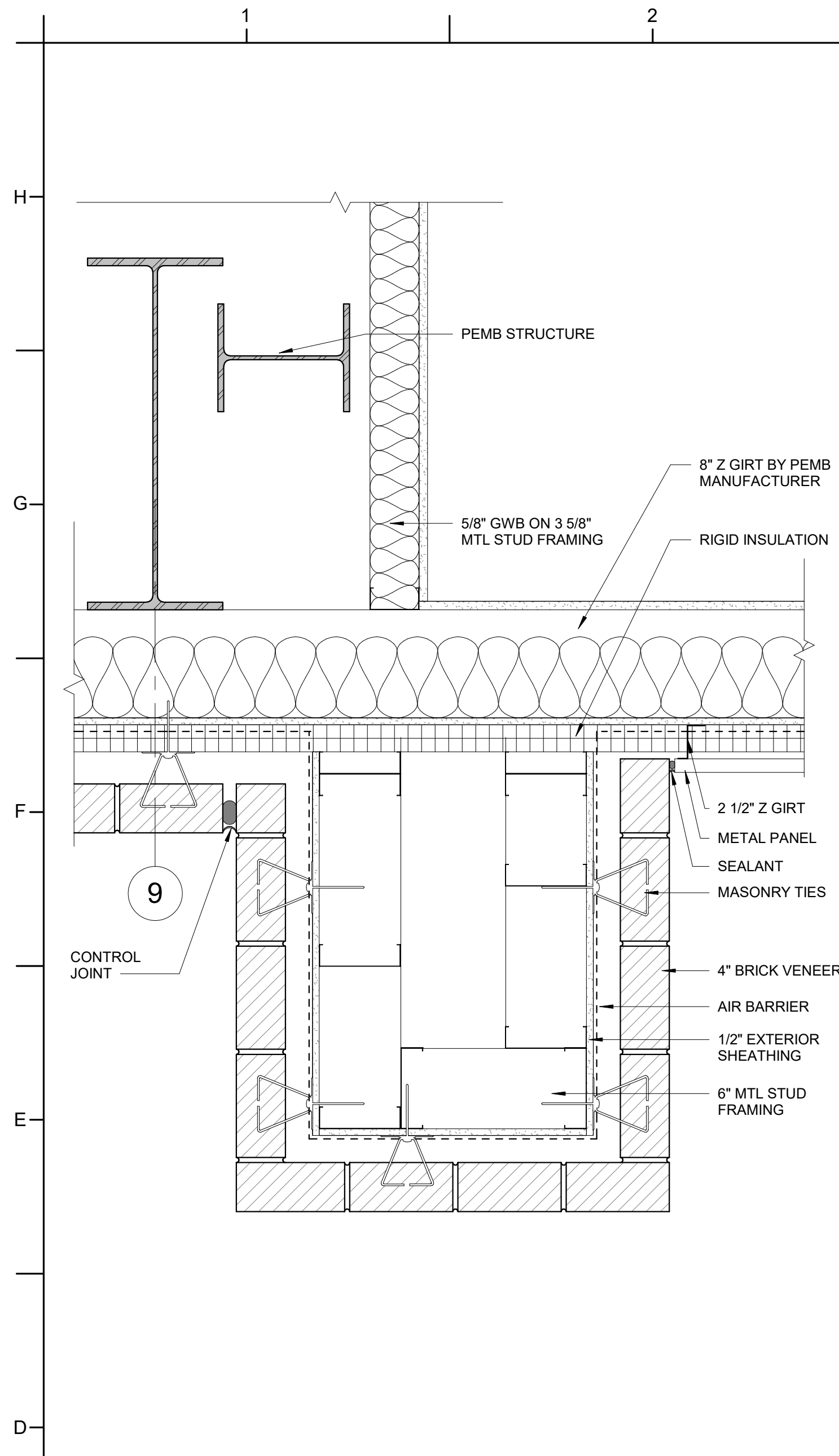
BID DOCUMENTS

03/12/2025

SHEET TITLE

PLAN DETAILS

A330





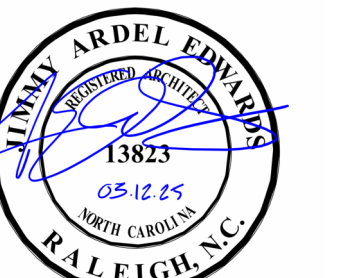
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PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID NO. 102-25C
138 OLD SAND RIDGE RD, HUBERT, NC 28539

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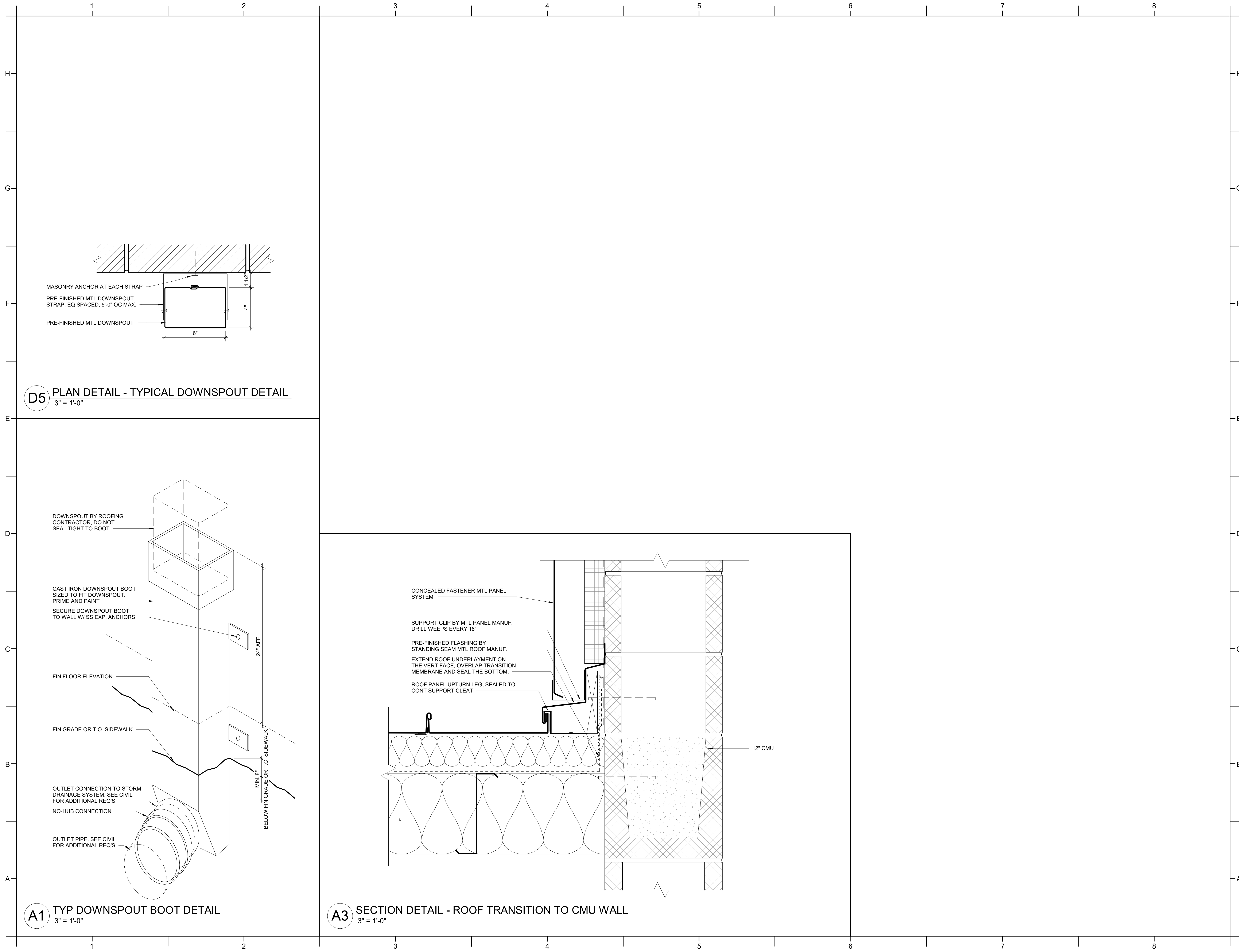
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PM: ALEXANDRE PENEGRE
Drawn By: BY
Plot Date: 3/11/2025 1:21:34 PM

DATE ISSUED

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SHEET TITLE
ROOF DETAILS

A340



MASONRY ANCHOR AT EACH STRAP
PRE-FINISHED MTL DOWNSPOUT STRAP, EQ SPACED, 5'-0" OC MAX.
PRE-FINISHED MTL DOWNSPOUT

DOWNSPOUT BY ROOFING CONTRACTOR, DO NOT SEAL TIGHT TO BOOT
CAST IRON DOWNSPOUT BOOT SIZED TO FIT DOWNSPOUT. PRIME AND PAINT
SECURE DOWNSPOUT BOOT TO WALL W/ SS EXP. ANCHORS
FIN FLOOR ELEVATION
FIN GRADE OR T.O. SIDEWALK
MIN. 8"
BELOW FIN GRADE OR T.O. SIDEWALK
OUTLET CONNECTION TO STORM DRAINAGE SYSTEM. SEE CIVIL FOR ADDITIONAL REQ'S
NO-HUB CONNECTION
OUTLET PIPE. SEE CIVIL FOR ADDITIONAL REQ'S

CONCEALED FASTENER MTL PANEL SYSTEM
SUPPORT CLIP BY MTL PANEL MANUF. DRILL WEEPS EVERY 16"
PRE-FINISHED FLASHING BY STANDING SEAM MTL ROOF MANUF.
EXTEND ROOF UNDERLAYMENT ON THE VERT FACE, OVERLAP TRANSITION MEMBRANE AND SEAL THE BOTTOM.
ROOF PANEL UPTURN LEG, SEALED TO CONT SUPPORT CLEAT

12" CMU

ENLARGED PLAN & INTERIOR ELEVATION GENERAL NOTES:

1. SEE SHEET A001 FOR TOILET ACCESSORIES, TYPICAL MOUNTING HEIGHTS AND ADDITIONAL REQ.
2. FOR FF&E SCHEDULE SEE A002.
3. CLEAR DIMENSIONS ARE FROM FINISH FACE OF THE WALL TO FINISH FACE OF THE WALL OR PARTITION.
4. PROVIDE 2X SOLID WOOD BLOCKING CONCEALED IN METAL STUD WALL CONSTRUCTION FOR WALL-MOUNTED FIXTURES, FURNISHINGS, EQUIPMENT AND ACCESSORIES.



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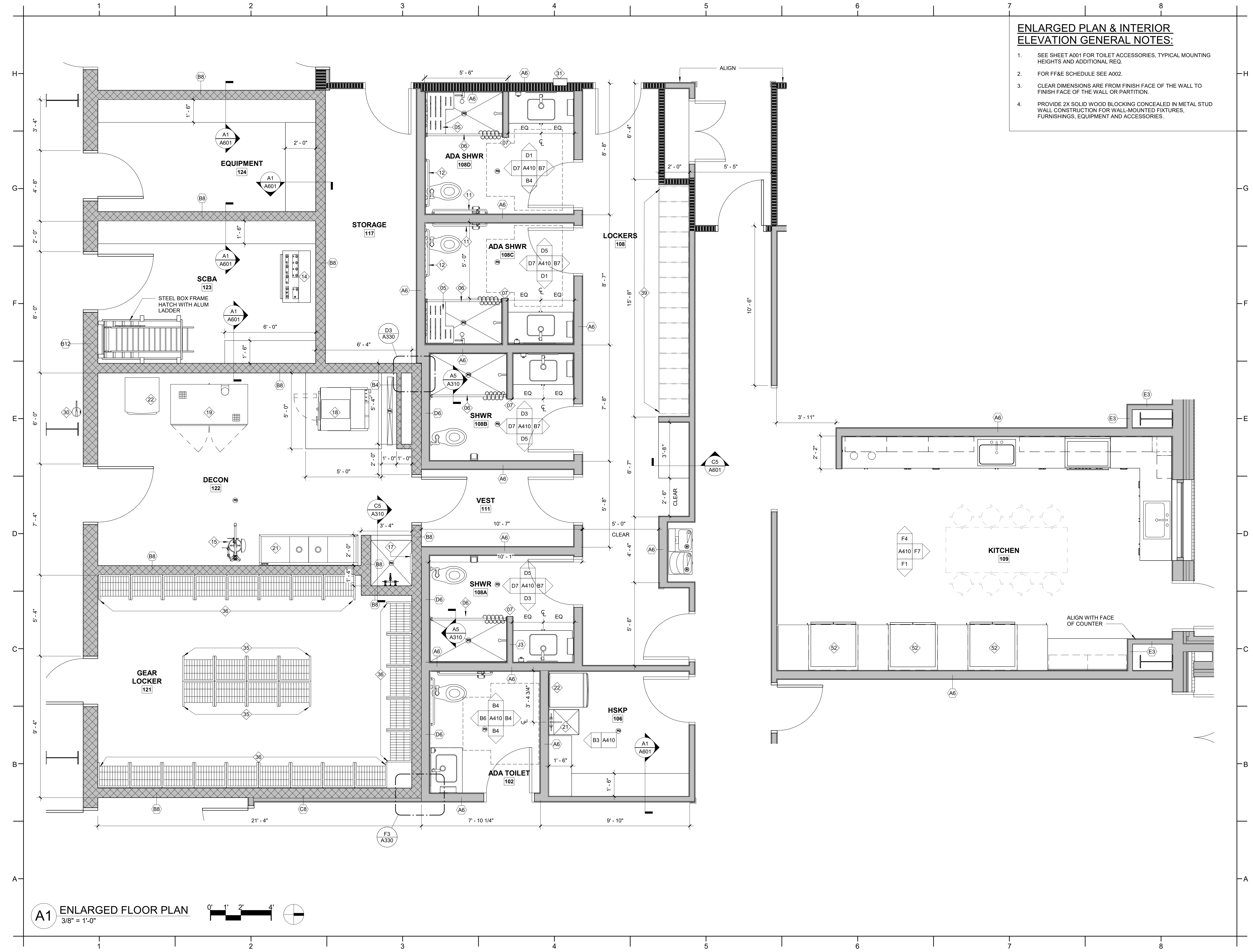
DATE ISSUED

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SHEET TITLE

ENLARGED PLANS

A400



A1 ENLARGED FLOOR PLAN
3/8" = 1'-0"



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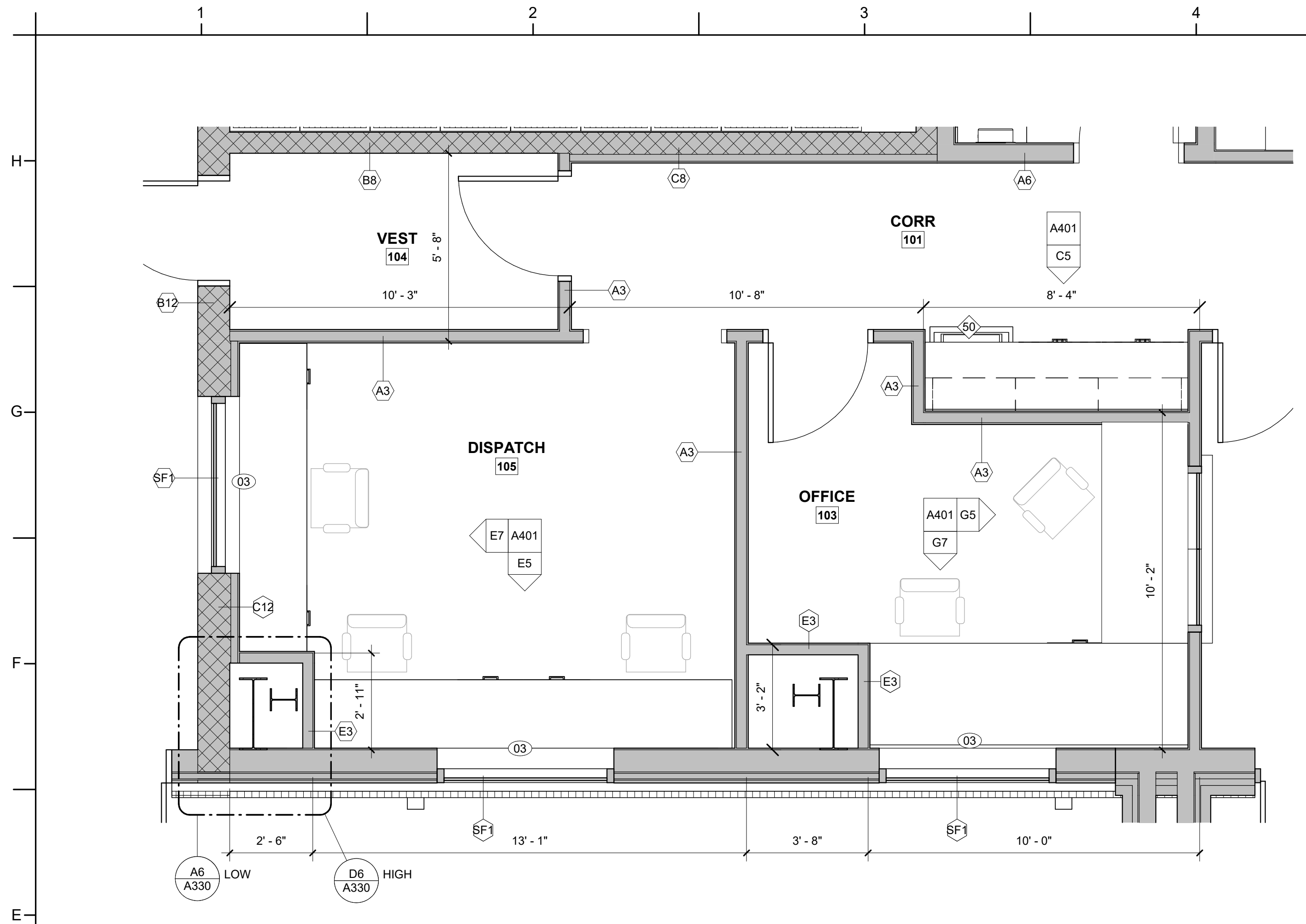
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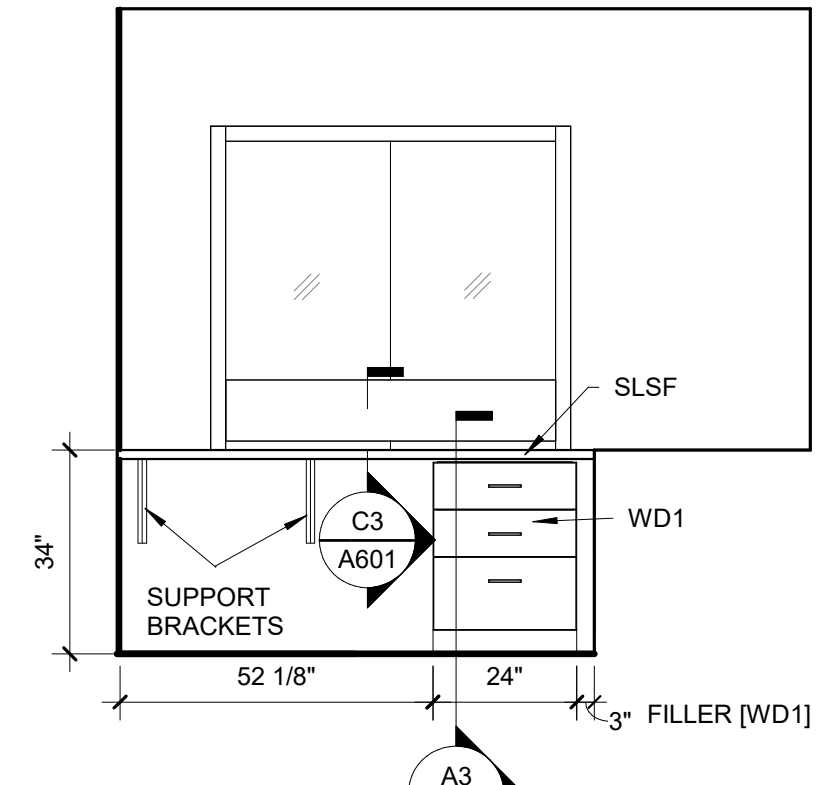
BID DOCUMENTS
03/12/2025

SHEET TITLE
ENLARGED PLANS AND ELEVATIONS

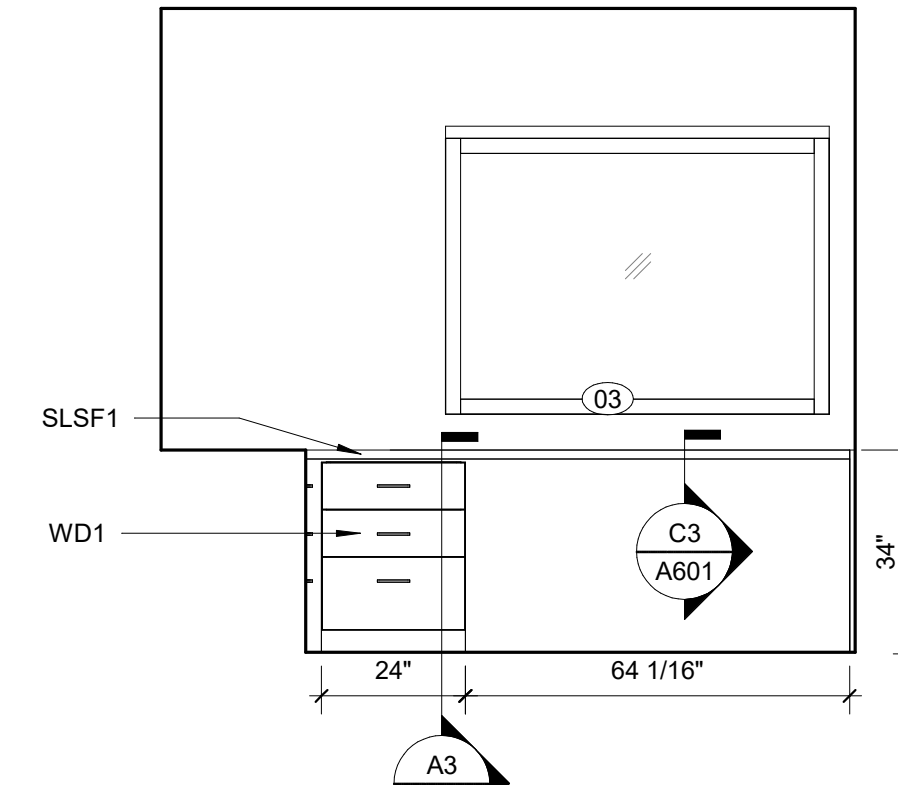
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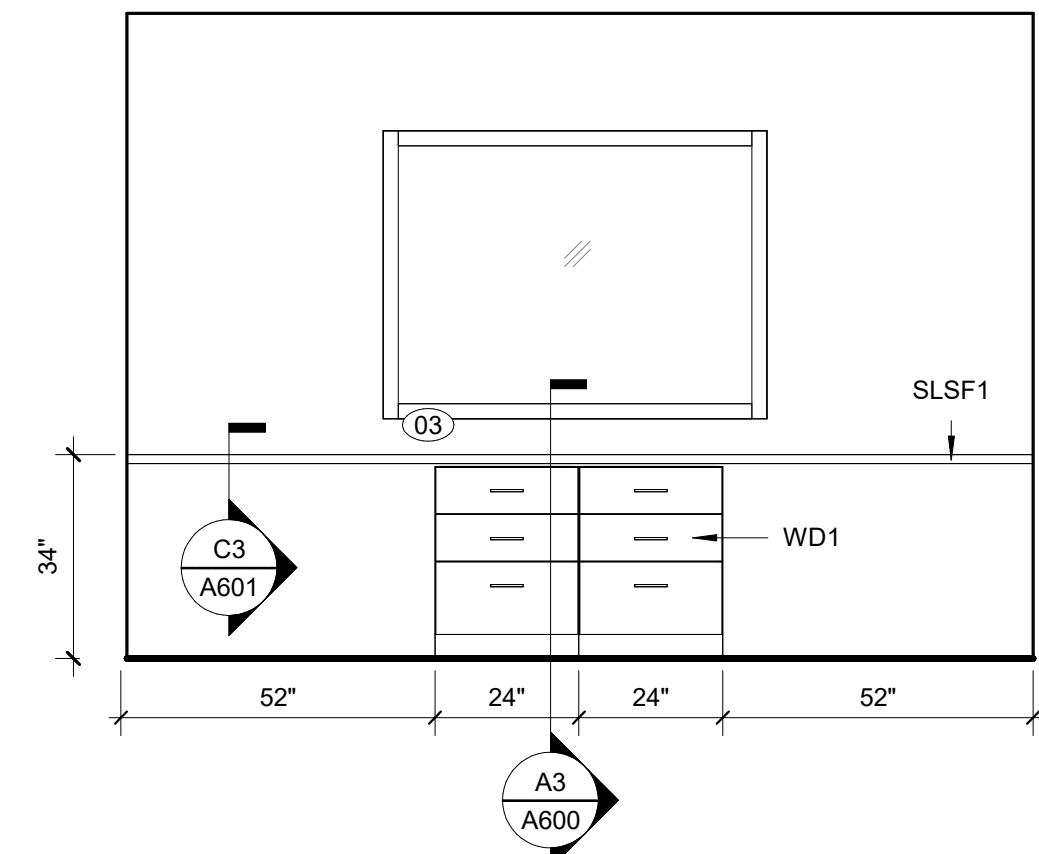
E1 ENLARGED FLOOR PLAN B
3/8" = 1'-0"



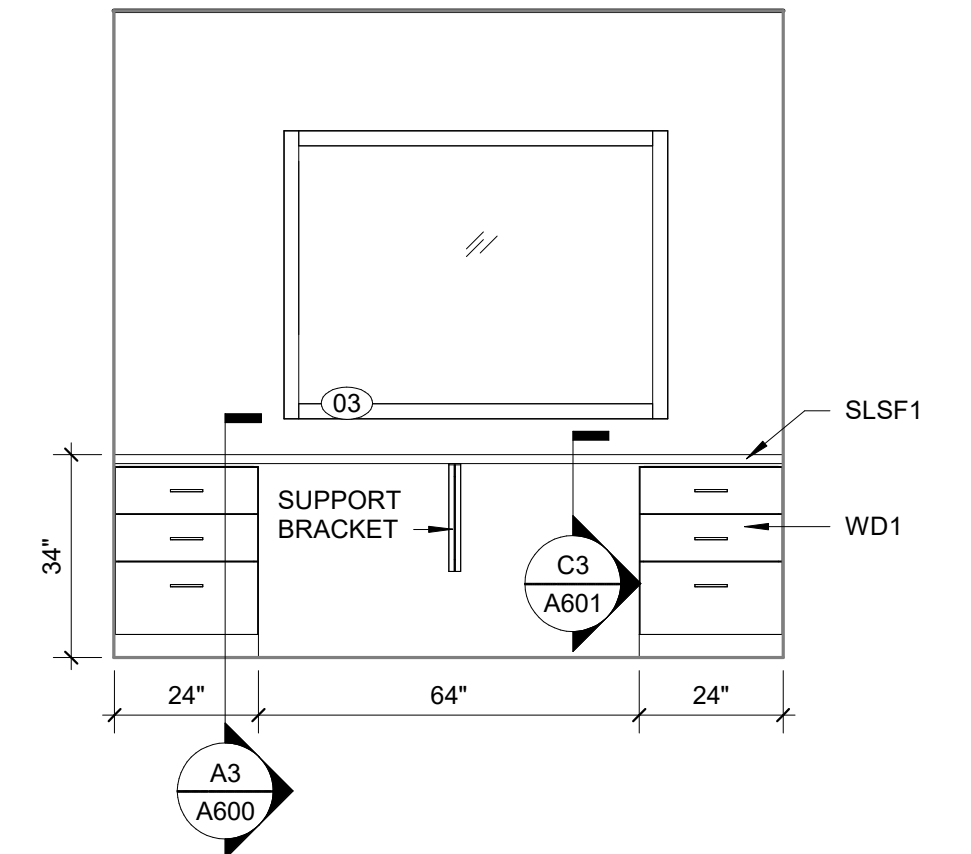
G5 INT. EL. OFFICE 103 EAST
3/8" = 1'-0"



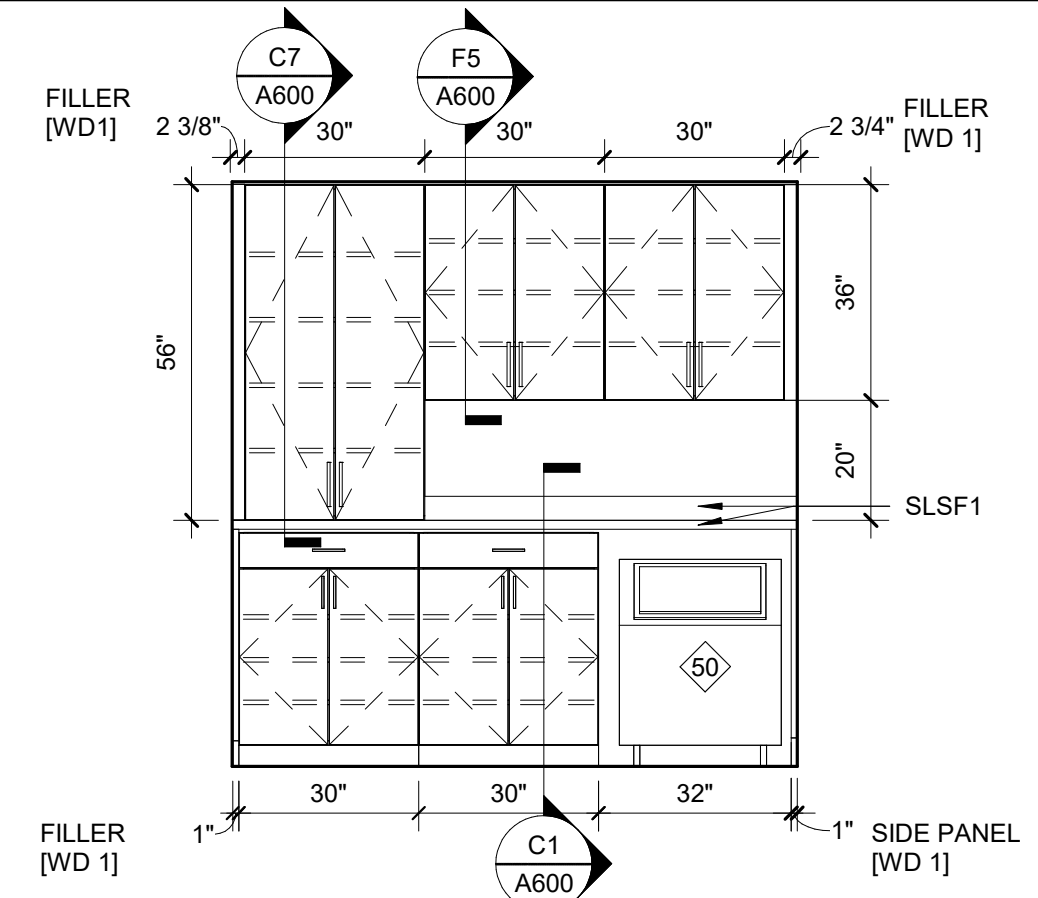
G7 INT. EL. OFFICE 103 SOUTH
3/8" = 1'-0"



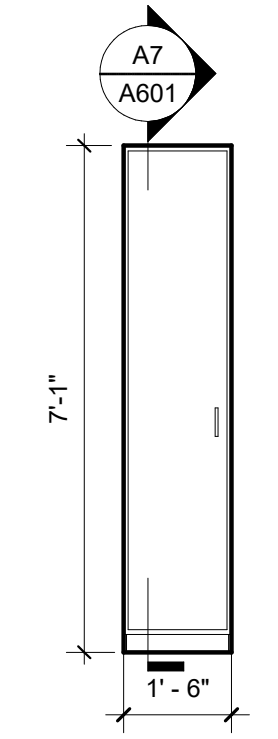
E5 INT. EL. DISPATCH 105 SOUTH
3/8" = 1'-0"



E7 INT. EL. DISPATCH 105 WEST
3/8" = 1'-0"



C5 INT. EL. CORR 101 ICE MAKER
3/8" = 1'-0"



A7 INT. EL. - TYP DORM WARDROBE
3/8" = 1'-0"

FINISHES KEY NOTES:

NOTE: NOT ALL OF THE KEY NOTES ARE APPLICABLE TO THIS PLAN. SEE PLAN FOR KEYED ITEM LOCATIONS. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS.

- 01 SINGULAR CORNER GUARDS
- 02 SCHLUTER
- 03 WINDOW SILL



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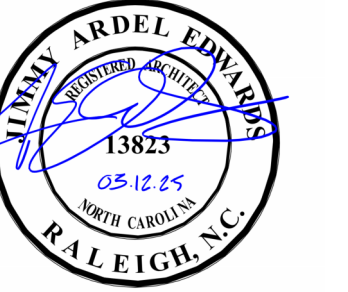
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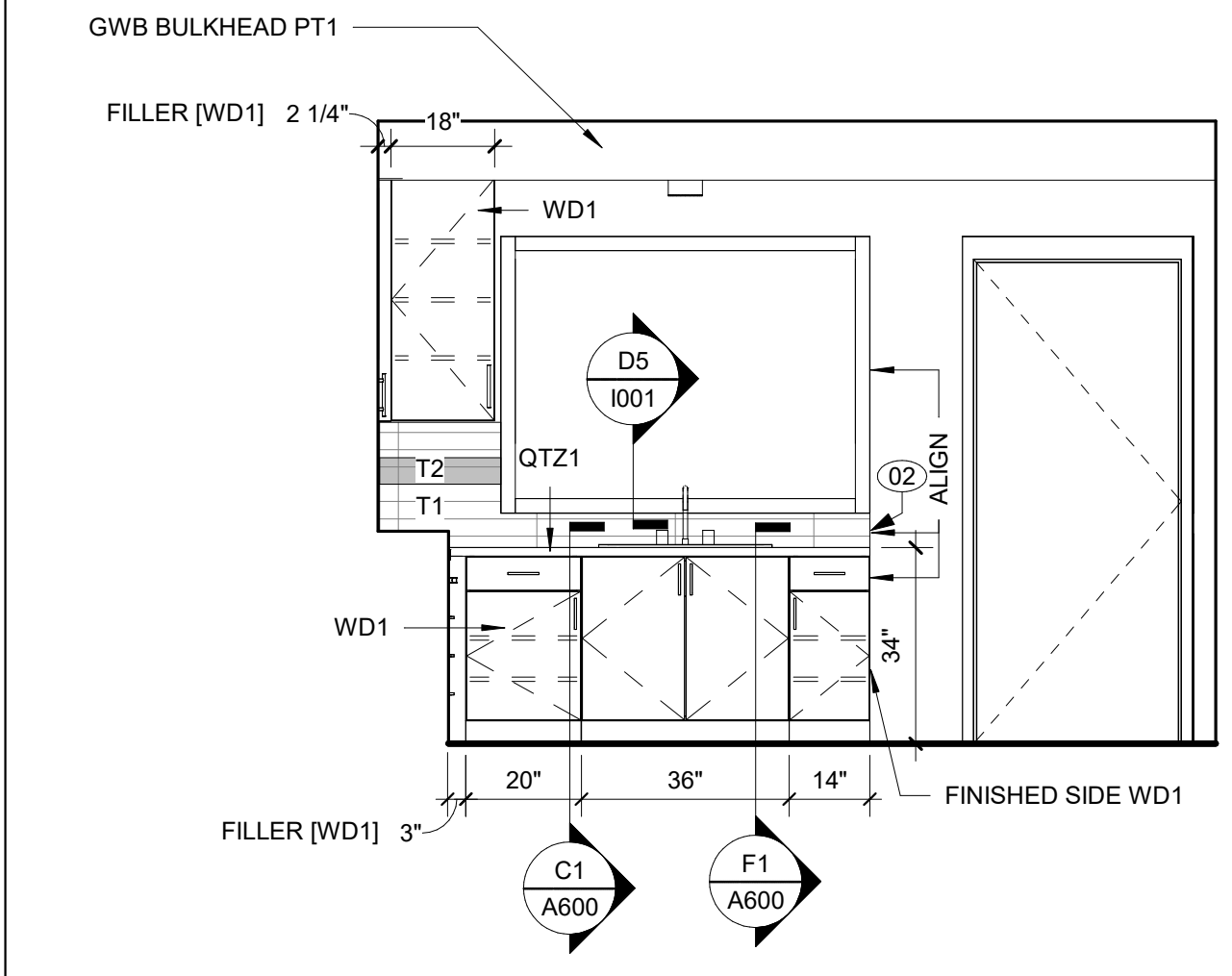
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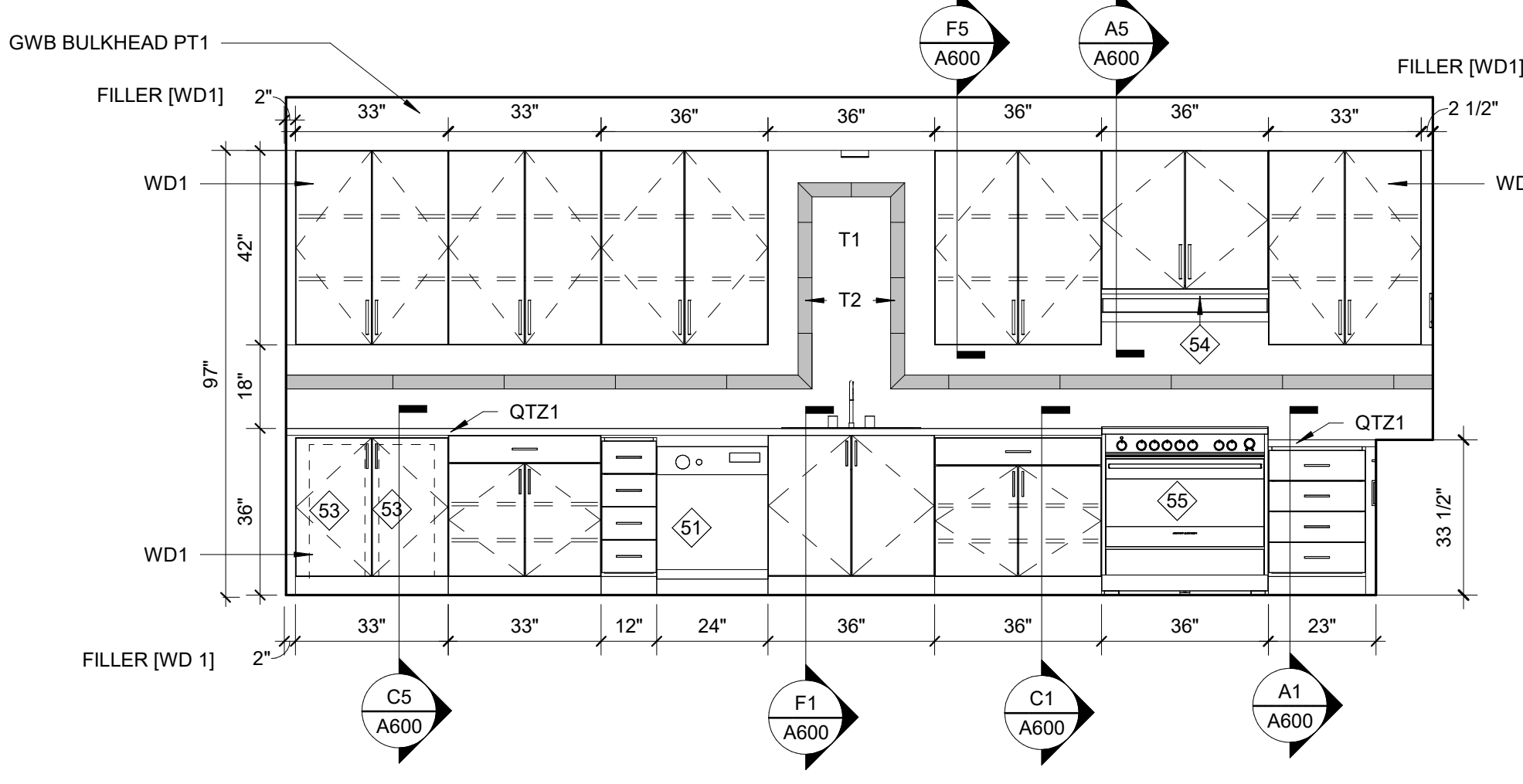
BID DOCUMENTS
03/12/2025

SHEET TITLE
INTERIOR ELEVATIONS

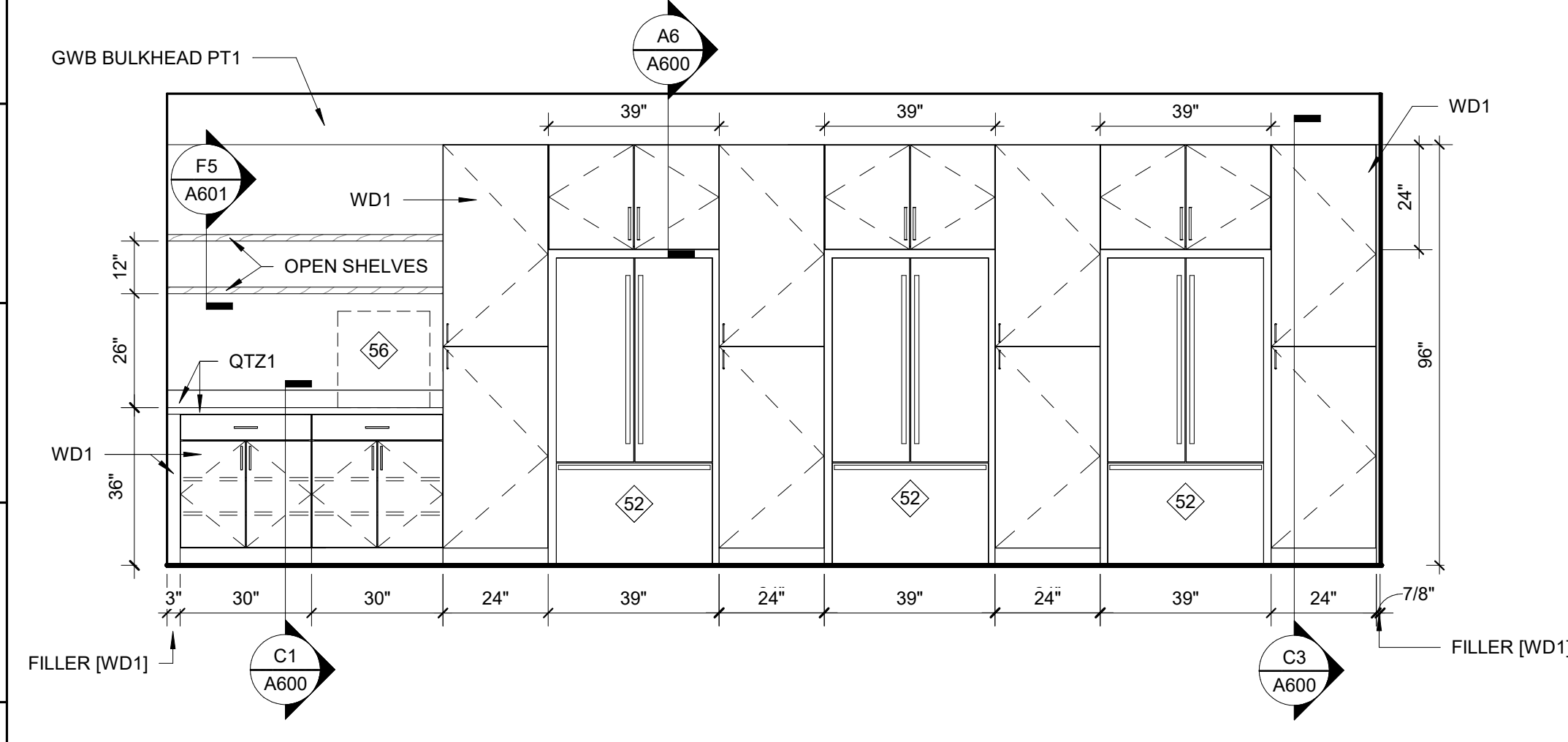
A410



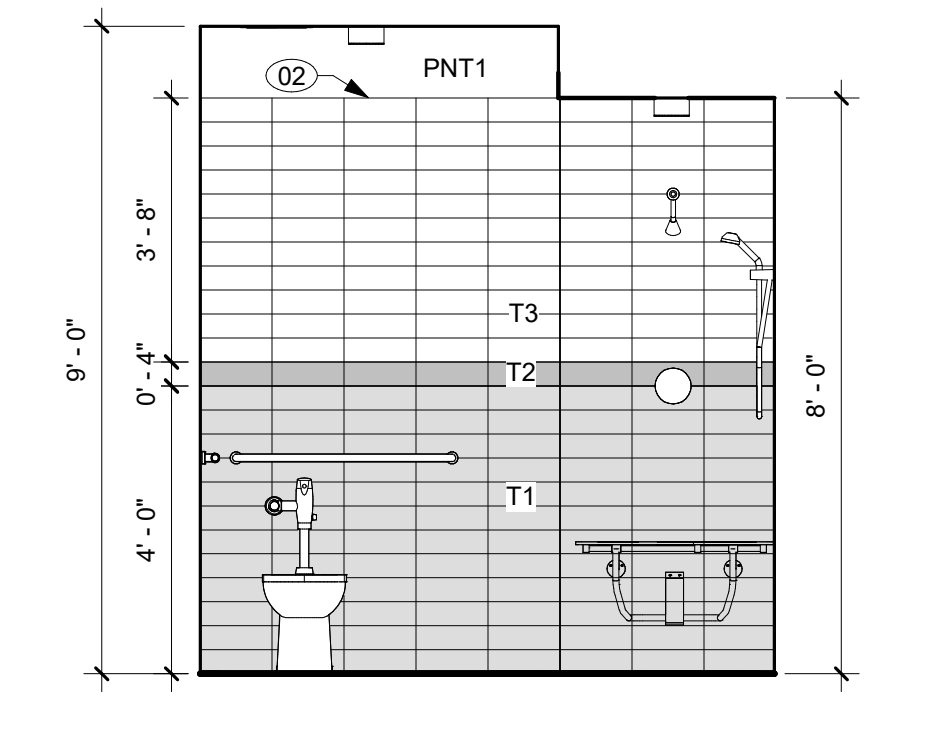
F7 INT.EL. KITCHEN EAST
3/8" = 1'-0"



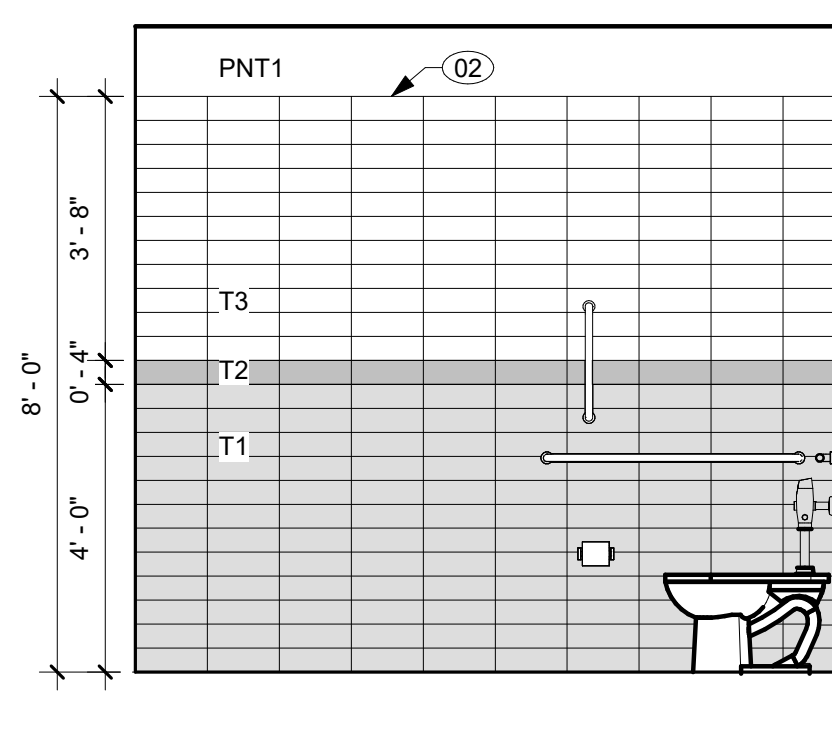
F4 INT.EL. KITCHEN NORTH
3/8" = 1'-0"



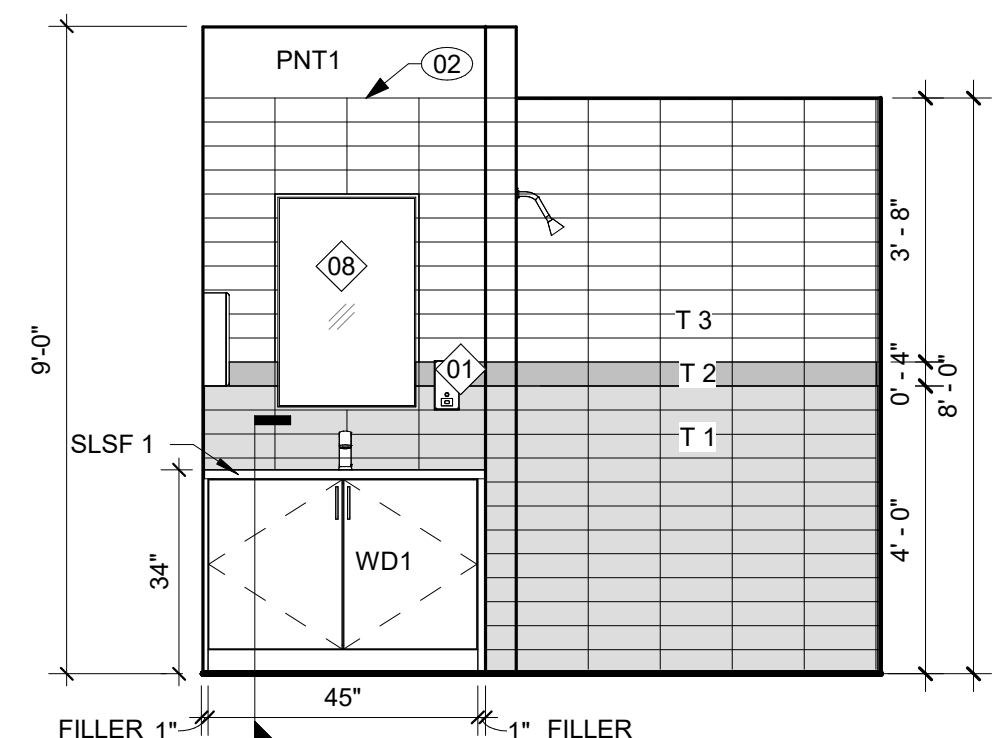
F1 INT.EL. KITCHEN SOUTH
3/8" = 1'-0"



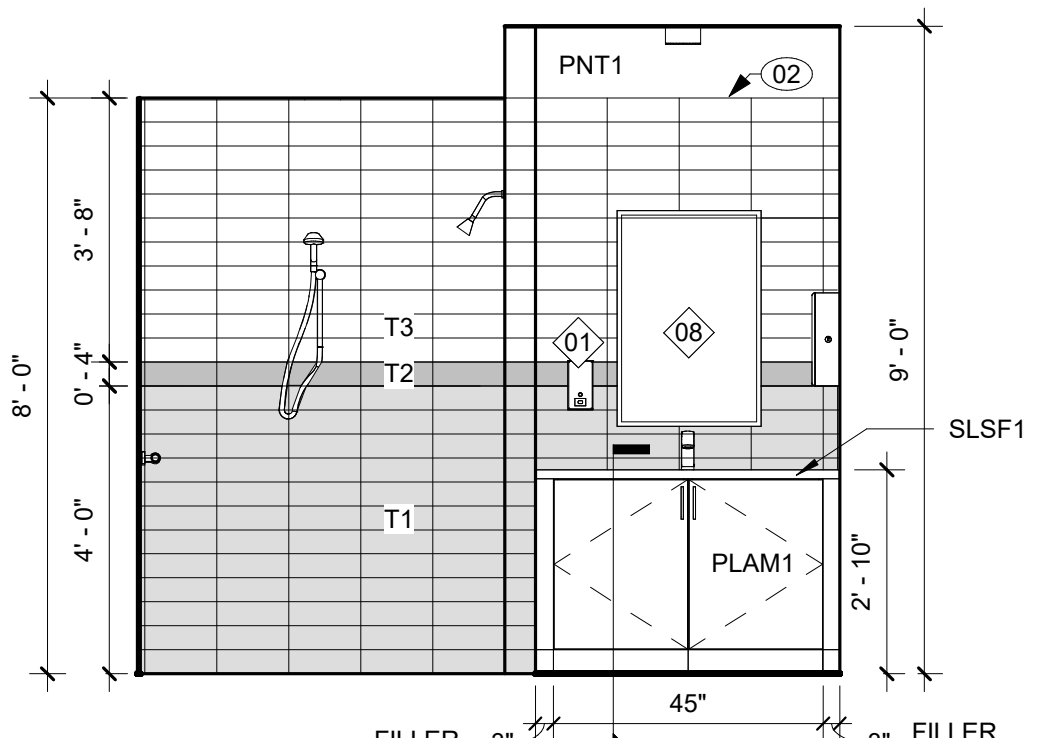
D7 INT.EL. -TYP WEST TLT 108A,C,D,E
3/8" = 1'-0"



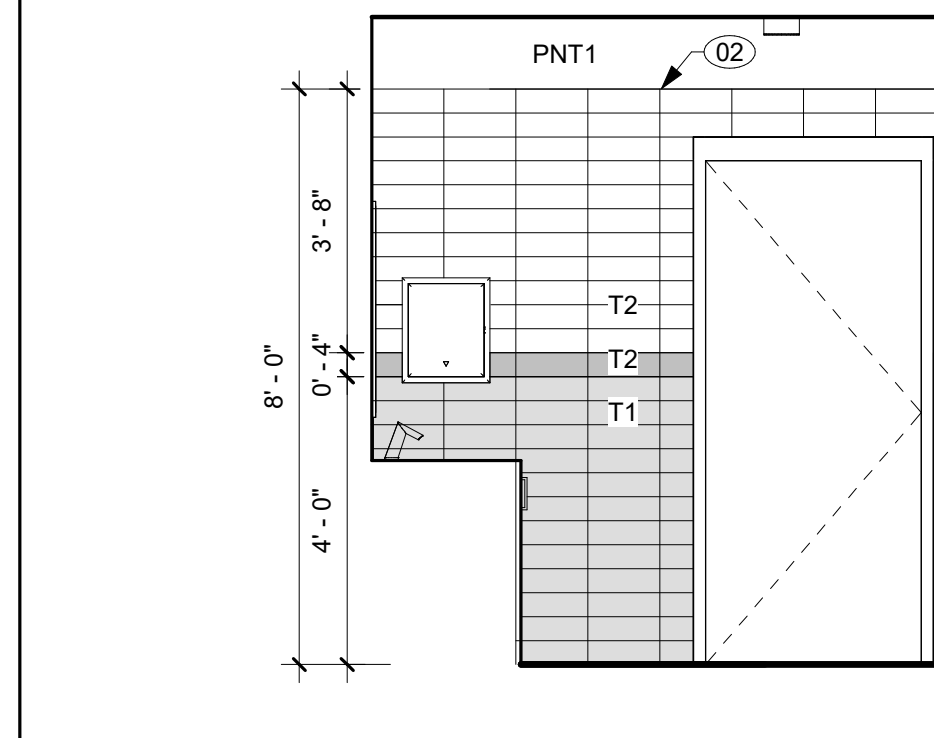
D5 INT.EL. -TYP TLT 108 A,C,D,E
3/8" = 1'-0"



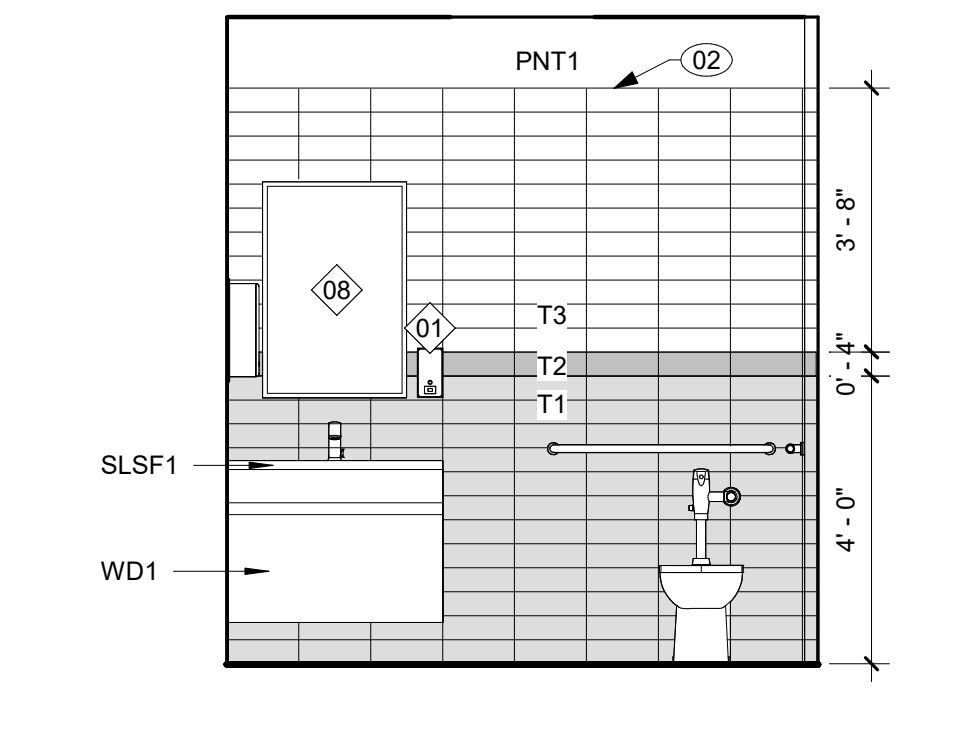
D3 INT.EL. - TYP TLT 108A, 108C
3/8" = 1'-0"



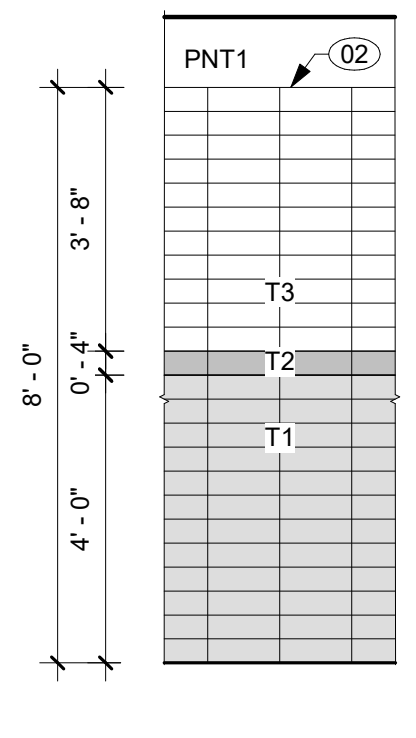
D1 INT.EL. - TLT 108D SOUTH, 108E NORTH
3/8" = 1'-0"



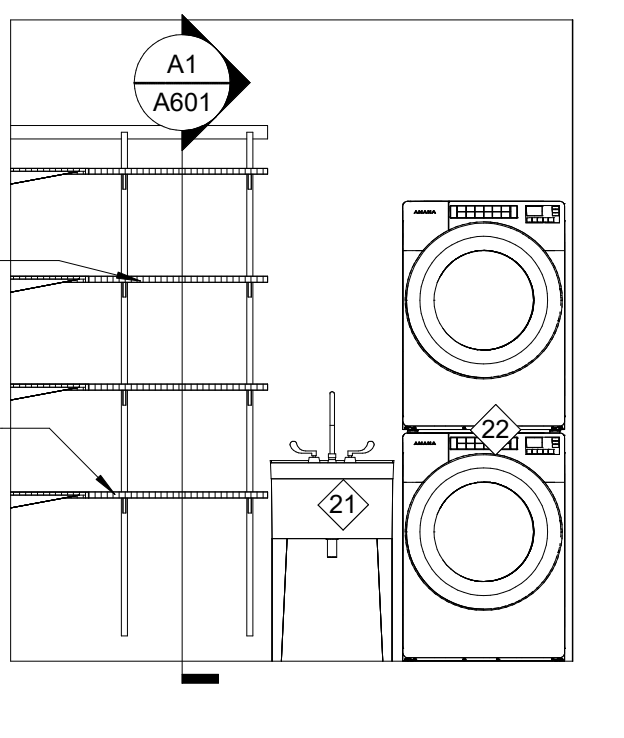
B7 INT.EL. -TYP EAST TLT 108A,C,D,E
3/8" = 1'-0"



B6 INT.EL. - TLT102 WEST
3/8" = 1'-0"



B4 INT.EL. -TYP TLT TILE PATTERN
3/8" = 1'-0"



B3 INT.EL. HSKPING WEST
3/8" = 1'-0"

FINISHES KEY NOTES:

NOTE: NOT ALL OF THE KEY NOTES ARE APPLICABLE TO THIS PLAN. SEE PLAN FOR KEYED ITEM LOCATIONS. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS.

- 01 SINGULAR CORNER GUARDS
- 02 SCHLUTER
- 03 WINDOW SILL



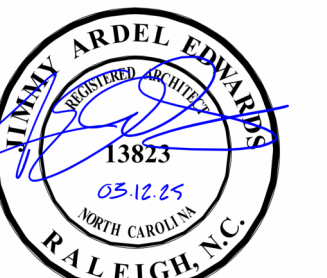
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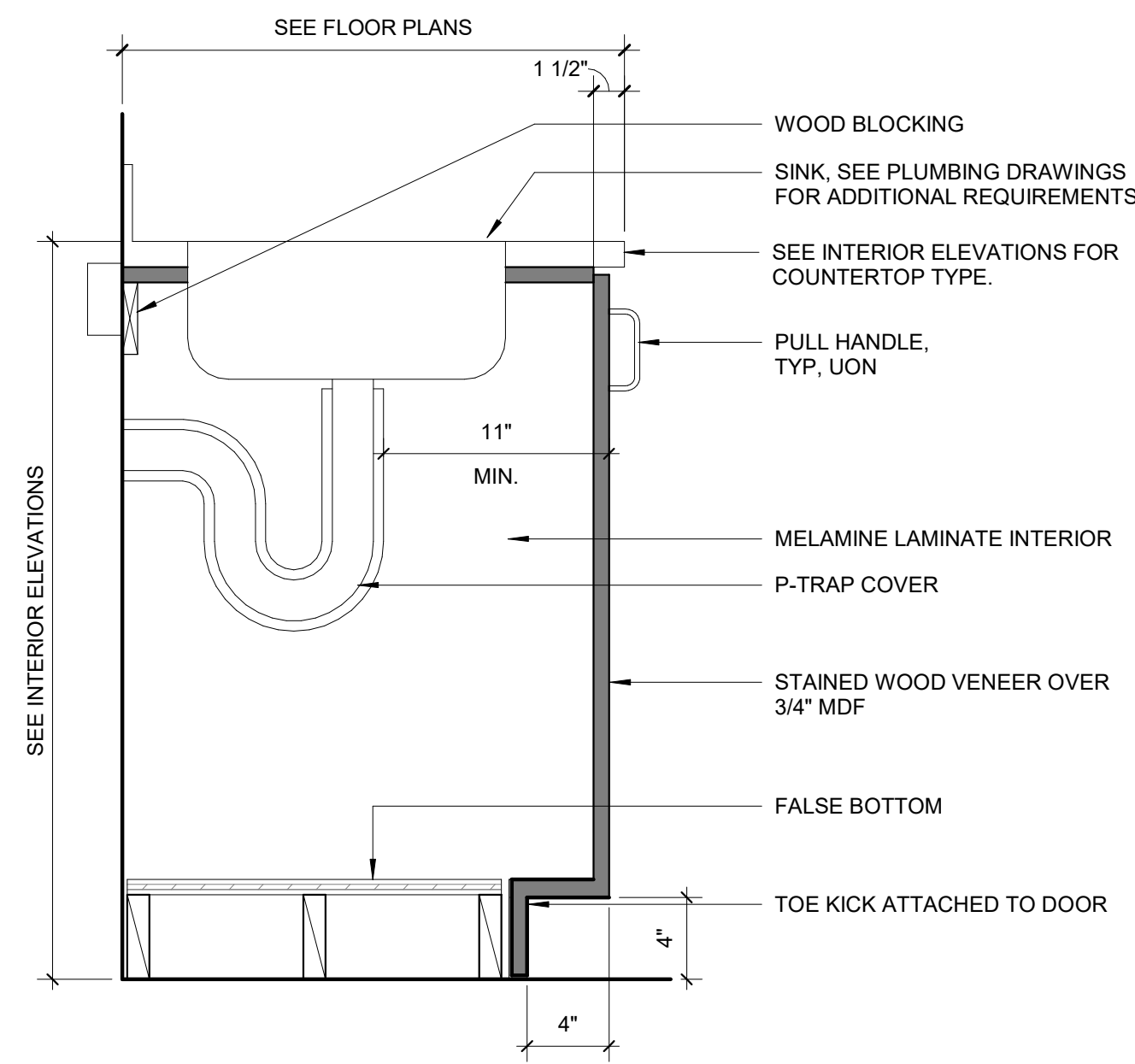
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SHEET TITLE
CASEWORK DETAILS

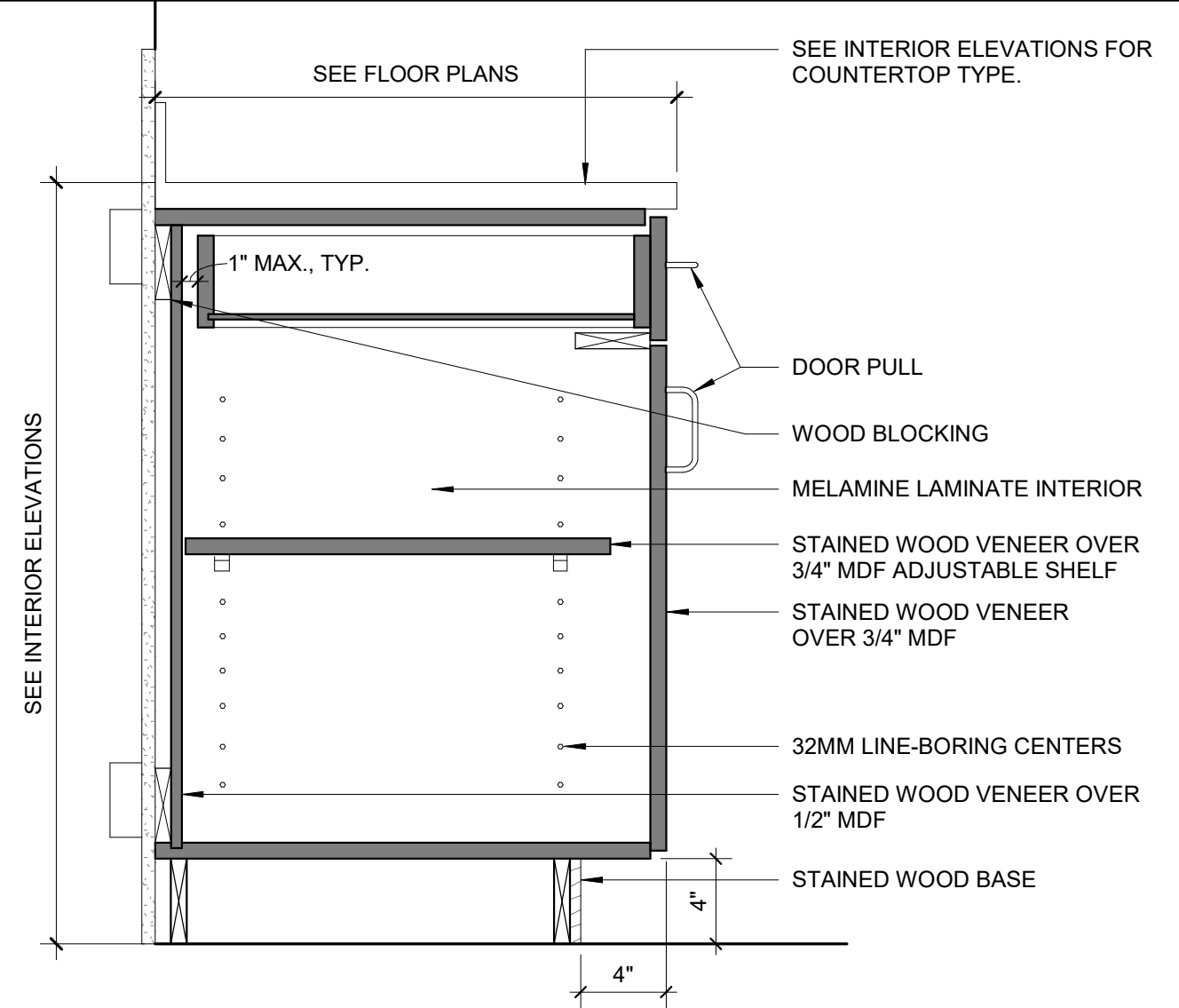
A600

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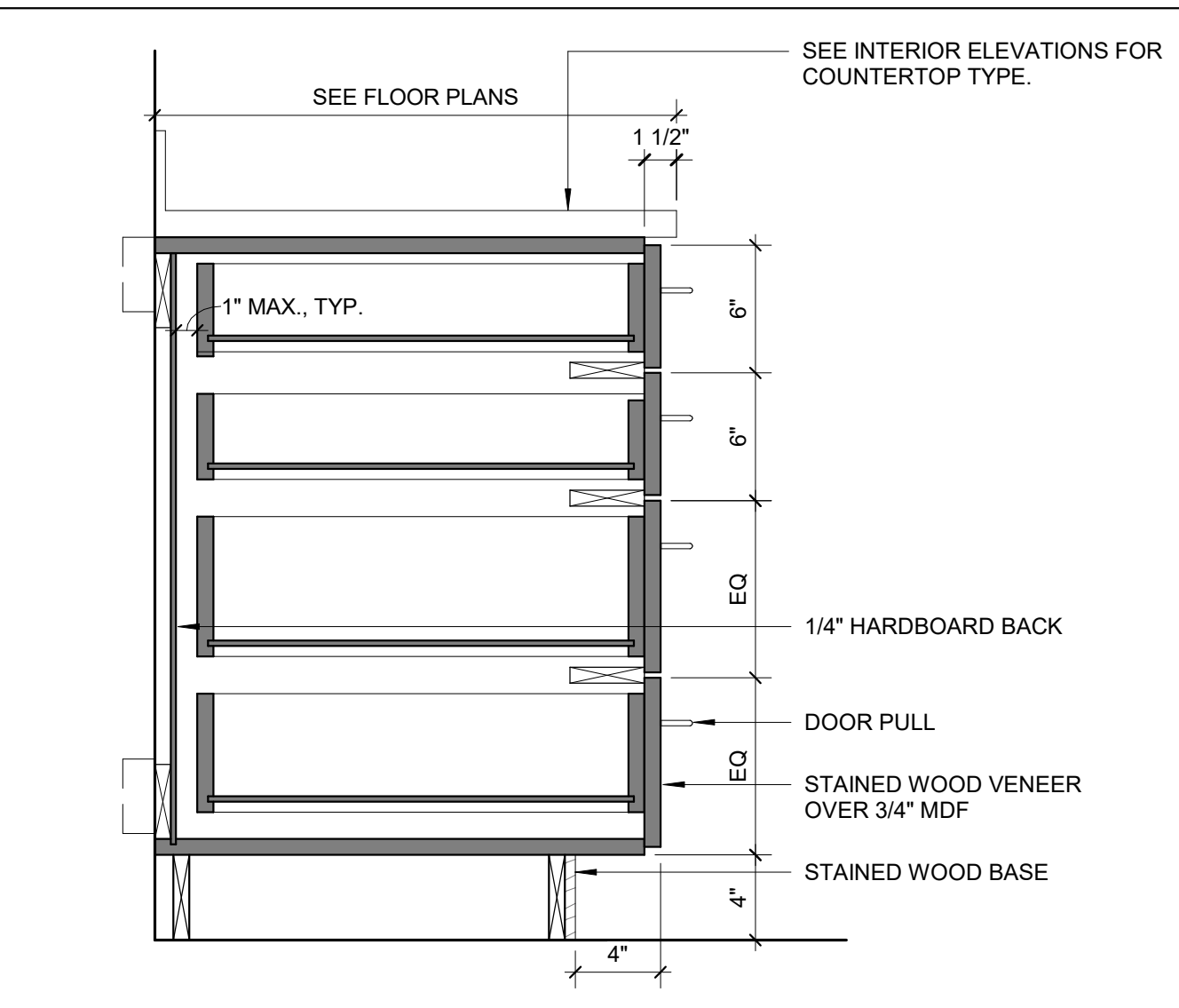
- SHELVES WIDER THAN 30" TO BE 1" THICK. SHELVES 30" WIDE OR NARROWER TO BE 3/4" THICK, UON.
- NUMBER OF SHELVES, DOORS AND DRAWERS TO BE AS INDICATED ON INTERIOR ELEVATIONS.
- LOCKABLE CABINETS INDICATED WITH "(L)" ON INTERIOR ELEVATIONS.
- STAINED WOOD VENEER ON ALL EXPOSED SURFACES AND EDGES, AS NOTED.
- STAINED WOOD VENEER ON 3/4" MDF, UON.
- SEE INTERIOR ELEVATIONS FOR DIMENSIONS NOT NOTED.
- OPEN CABINETS TO HAVE THE SAME FINISH ON THE INTERIOR OF THE CABINET AS THE EXTERIOR, UON.
- ALL VOIDS CREATED BY VERTICAL FILLER PANELS AT TOP OF TALL CABINETS AND BOTTOM OF WALL CABINETS ARE TO BE INFILLED WITH FILLER PANELS STAINED TO MATCH ADJACENT SURFACES.



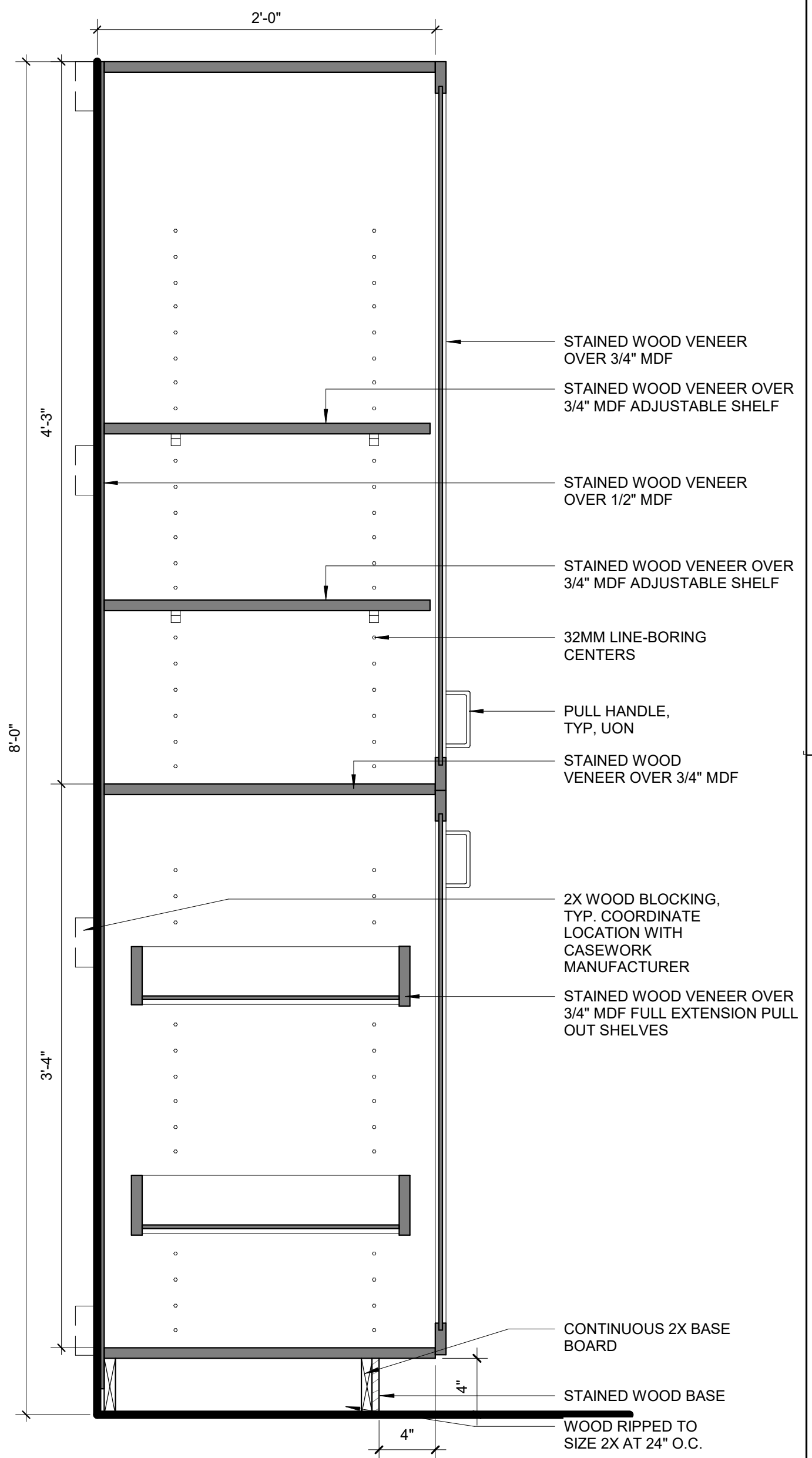
F1 BASE CABINET - ADA SINK W DOORS
1 1/2" = 1'-0"



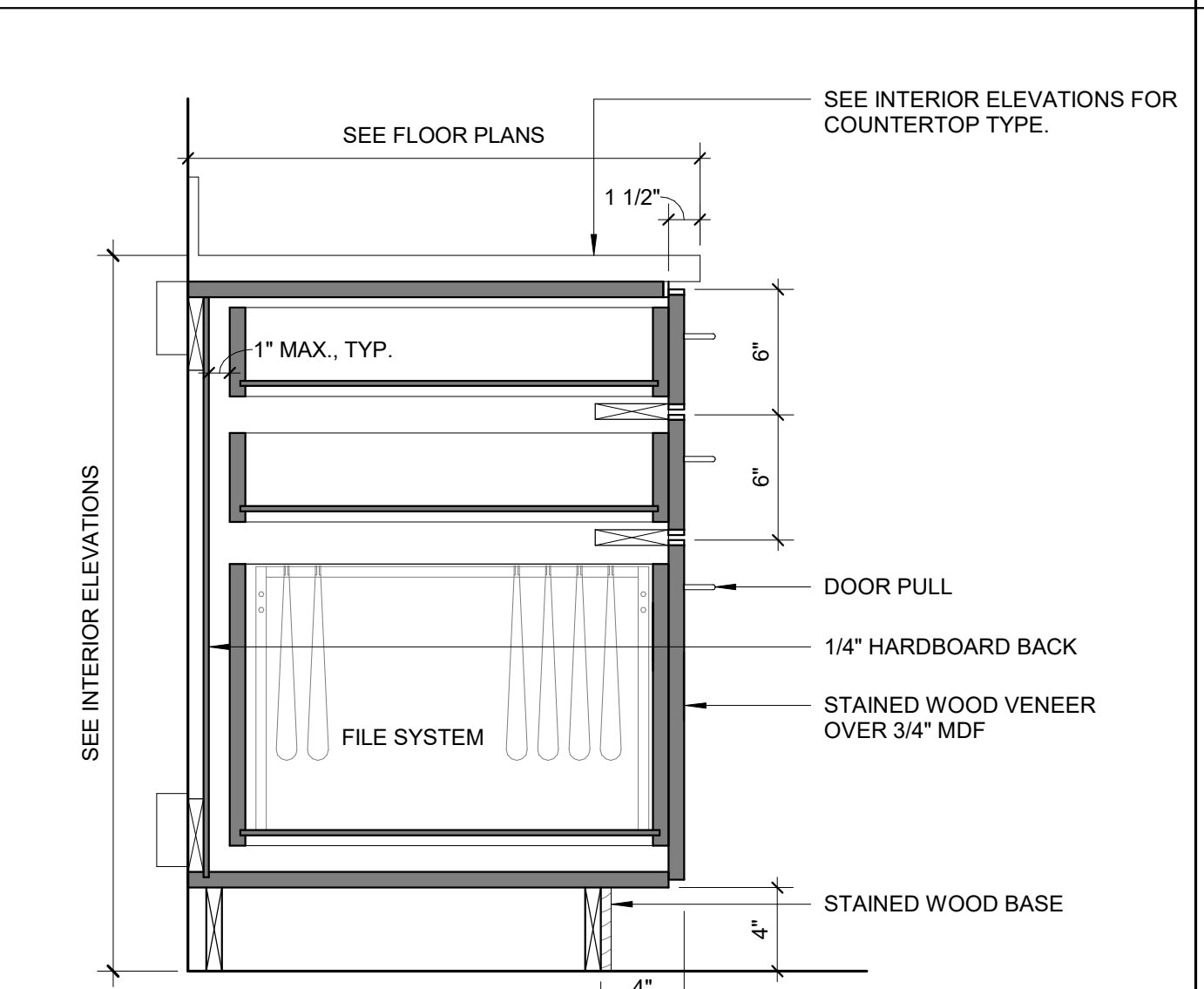
C1 BASE CABINET - 1 DRAWER & SHELVING
1 1/2" = 1'-0"



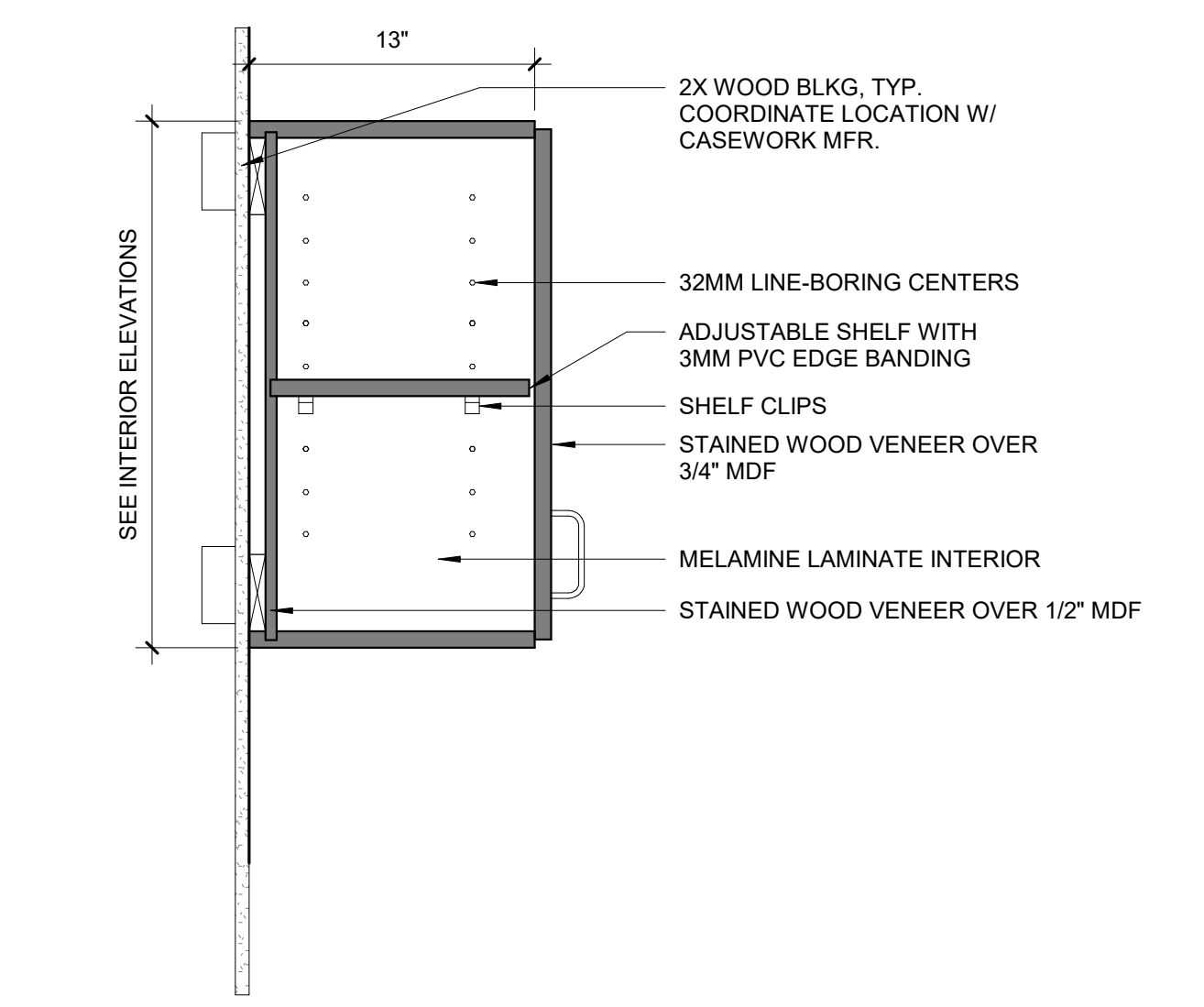
A1 BASE CABINET - 4 DRAWER, TYP.
1 1/2" = 1'-0"



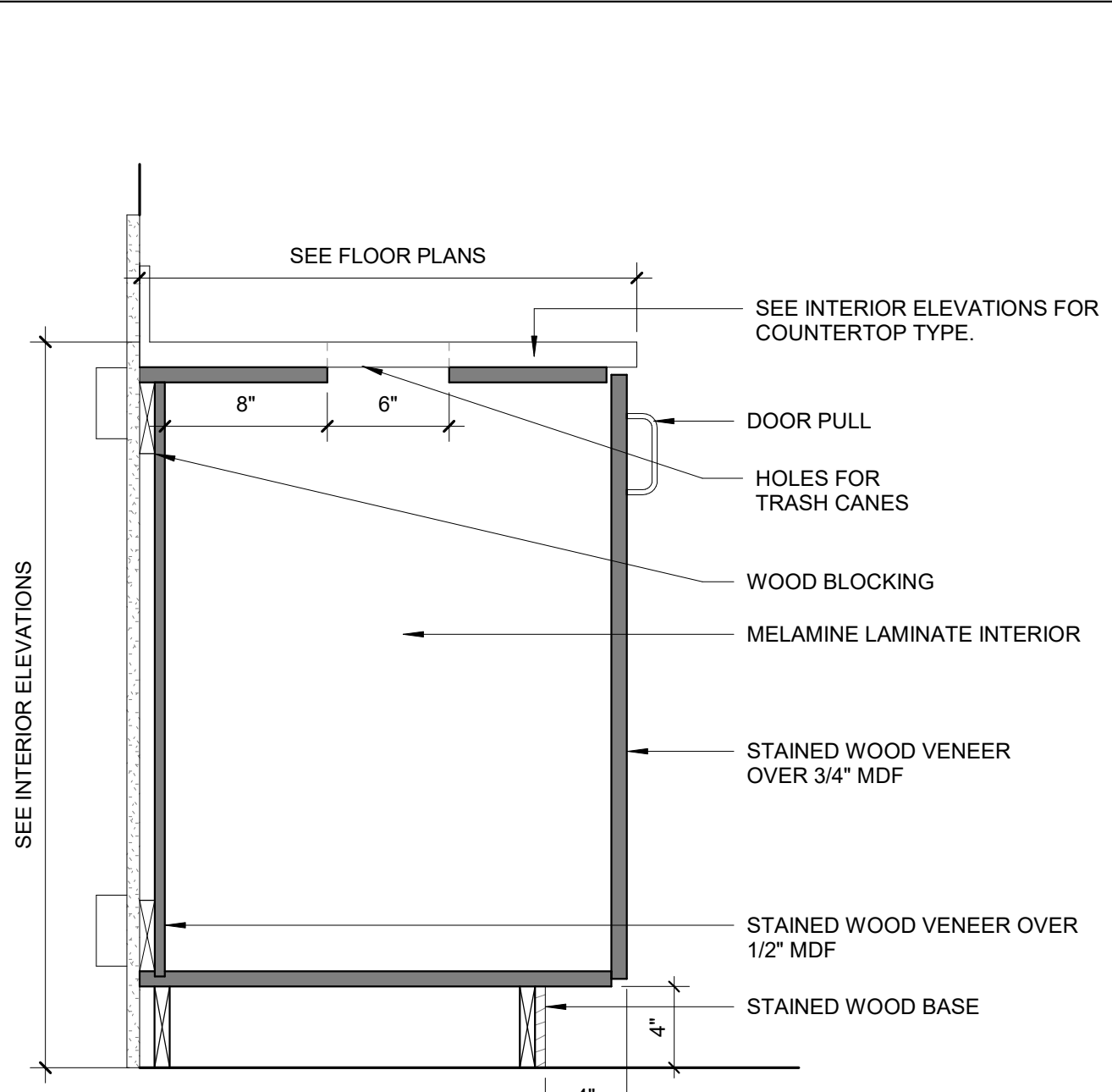
C3 PANTRY
1 1/2" = 1'-0"



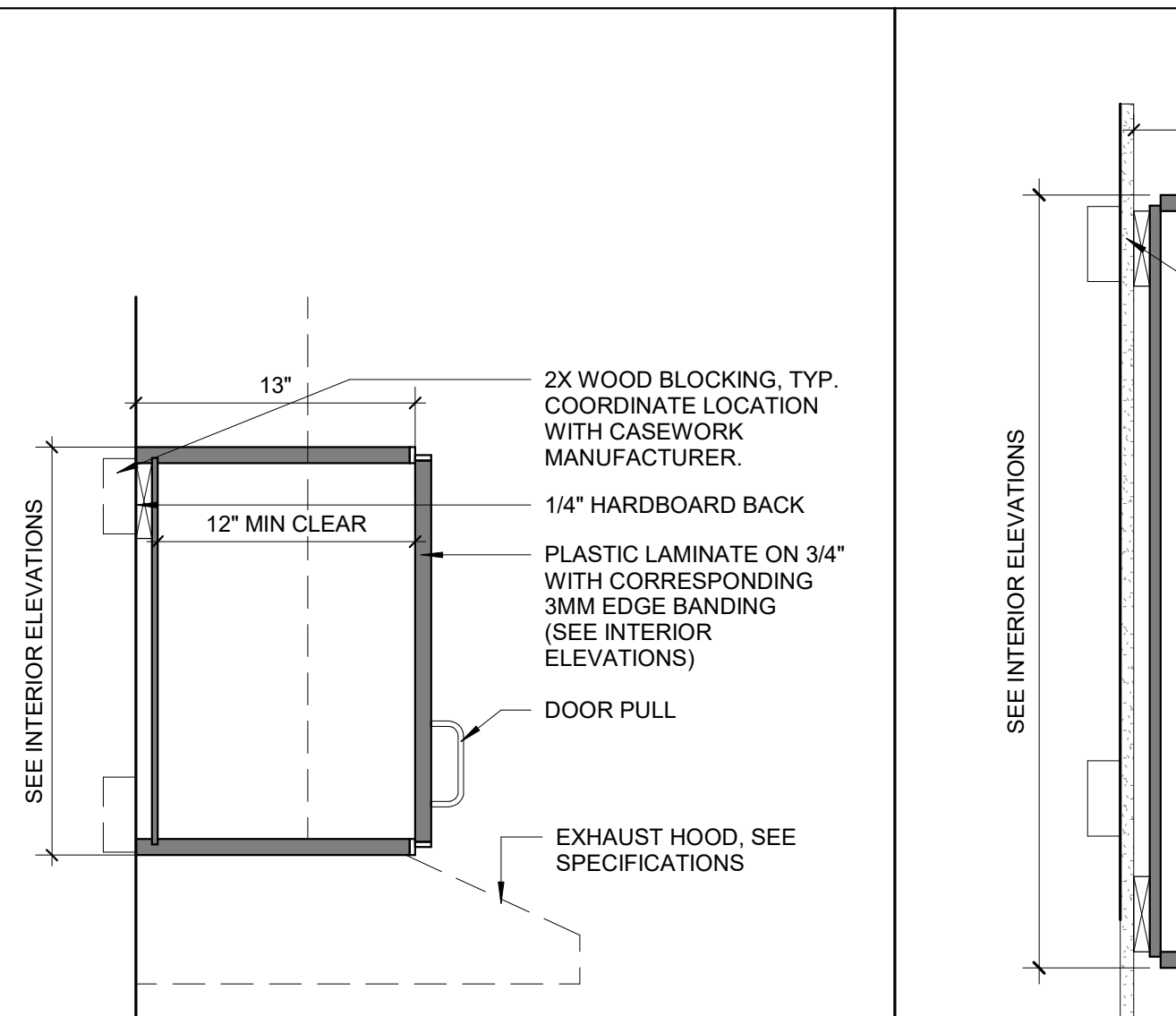
A3 BASE CABINET - 3 DRAWER & FOLDER FILE, TYP.
1 1/2" = 1'-0"



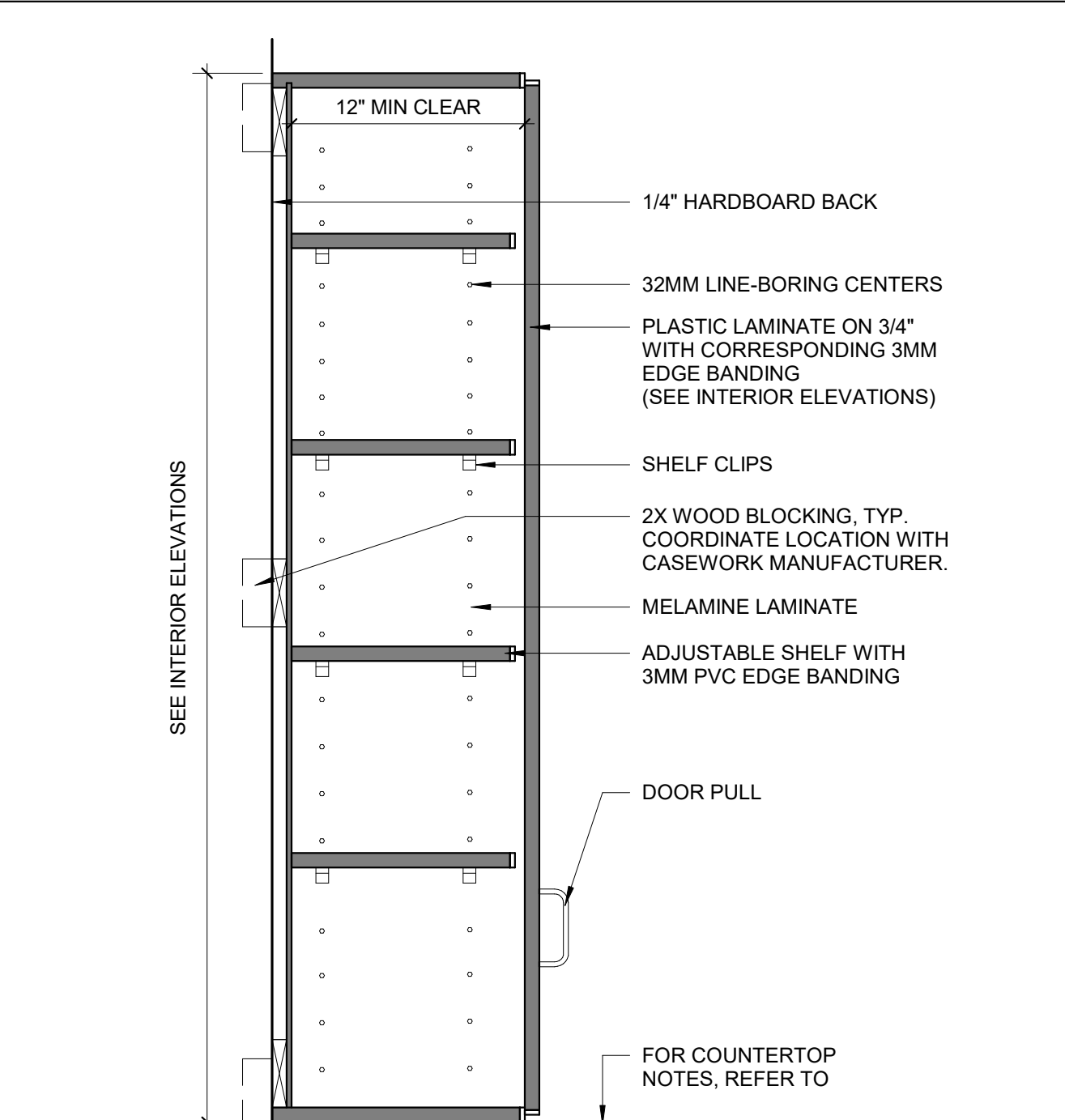
F5 WALL CABINET - DOORS & SHELVING 1
1 1/2" = 1'-0"



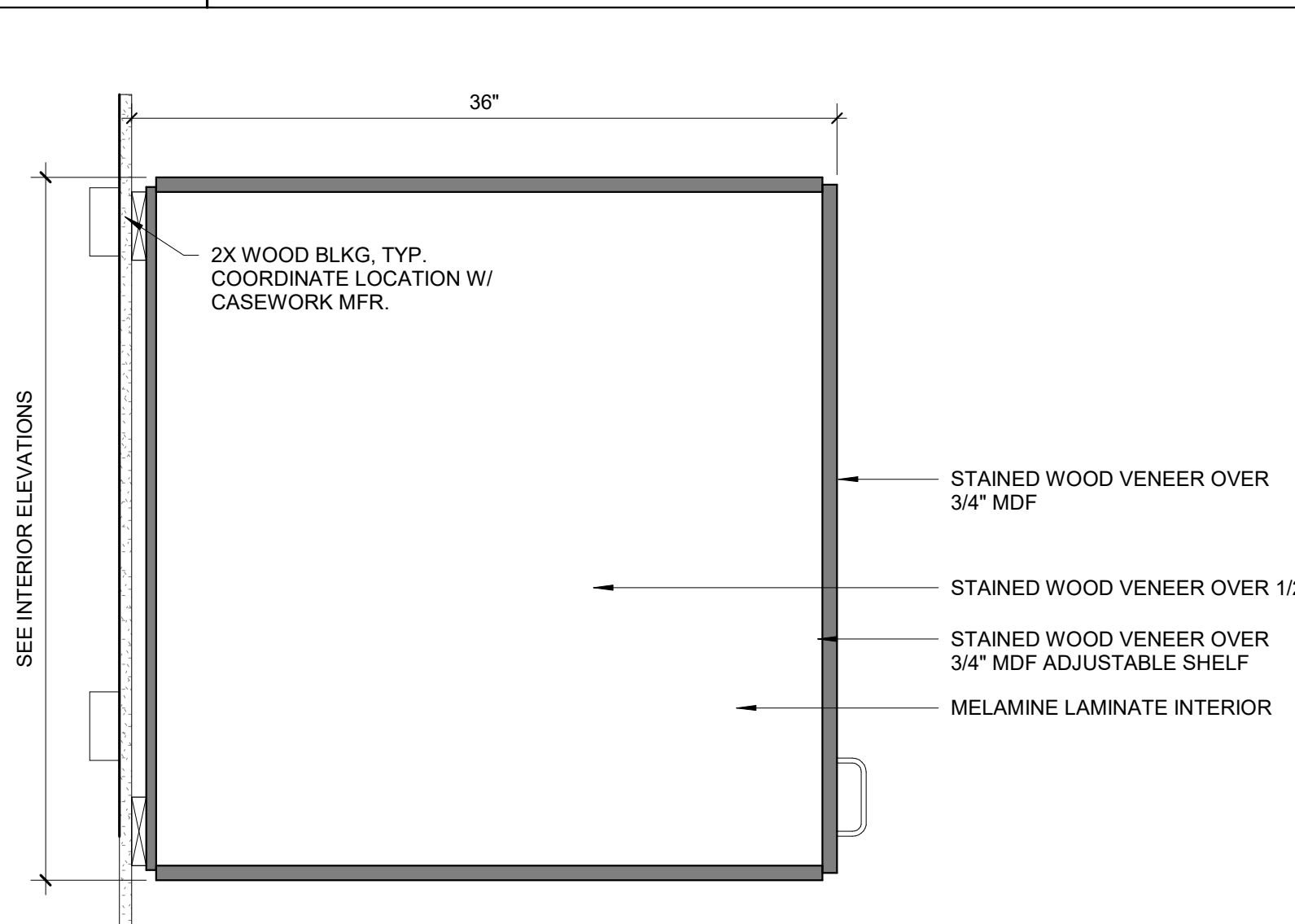
C5 BASE CABINET - FOR TRASH CANES
1 1/2" = 1'-0"



A5 WALL CABINET - ABOVE HOOD
1 1/2" = 1'-0"



C7 WALL CABINET - ADA REACH
1 1/2" = 1'-0"



A6 WALL CABINET - ABOVE REFRIGERATOR
1 1/2" = 1'-0"



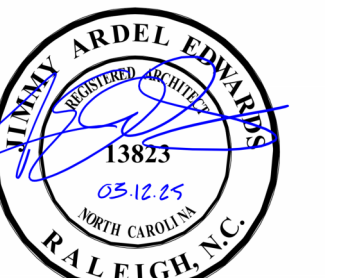
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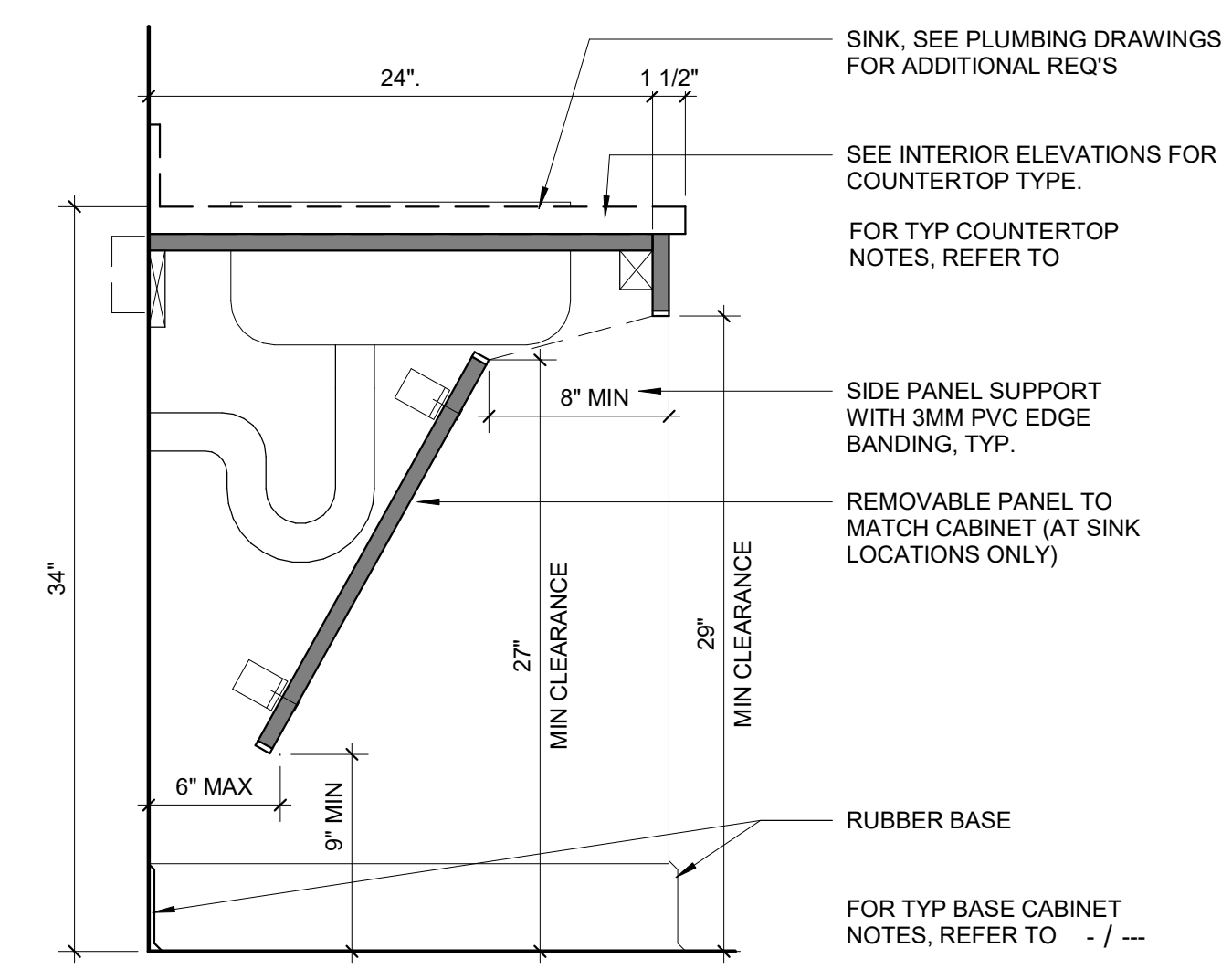
BID DOCUMENTS
03/12/2025

SHEET TITLE
CASEWORK DETAILS

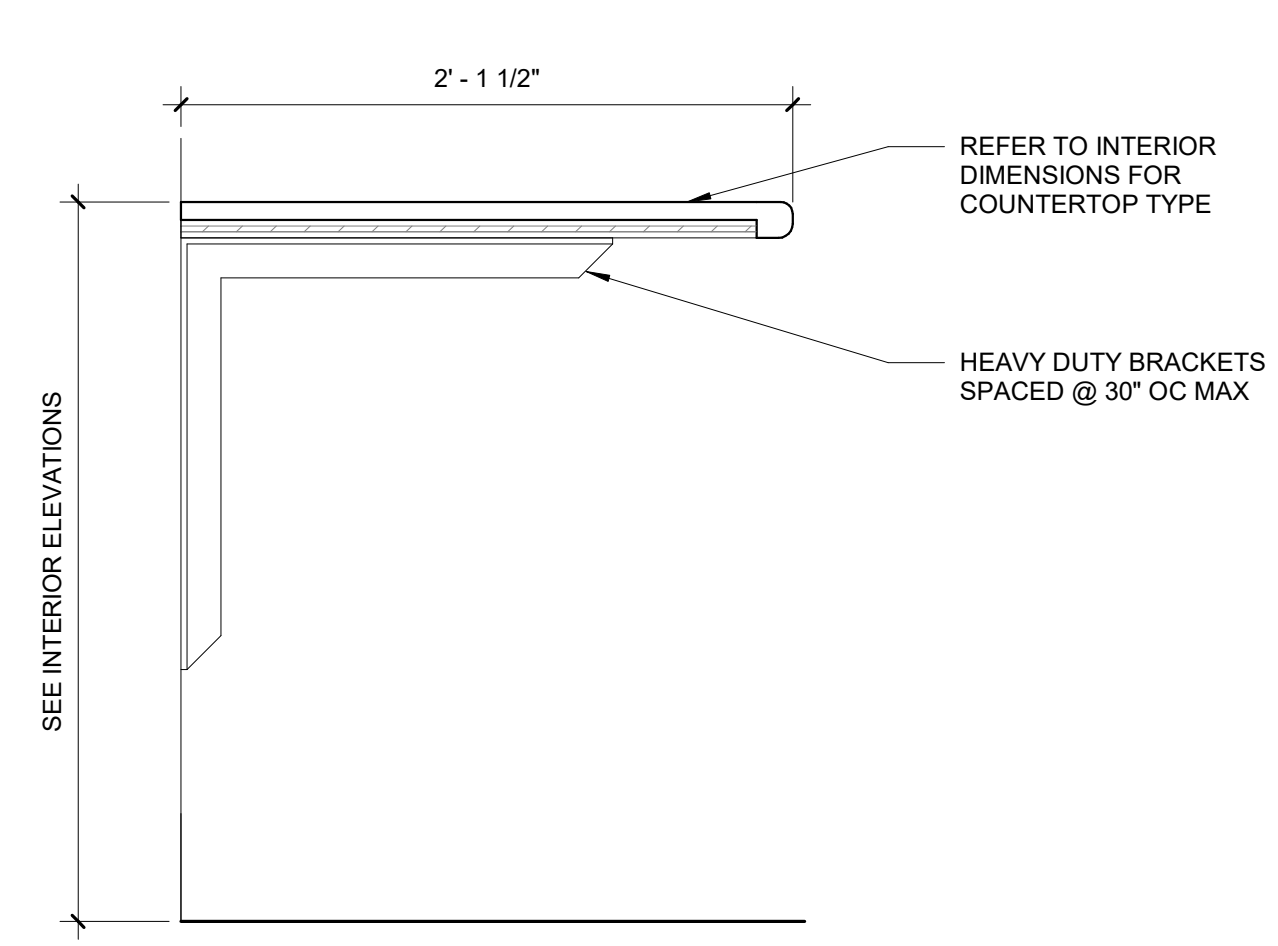
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CASEWORK GENERAL NOTES:

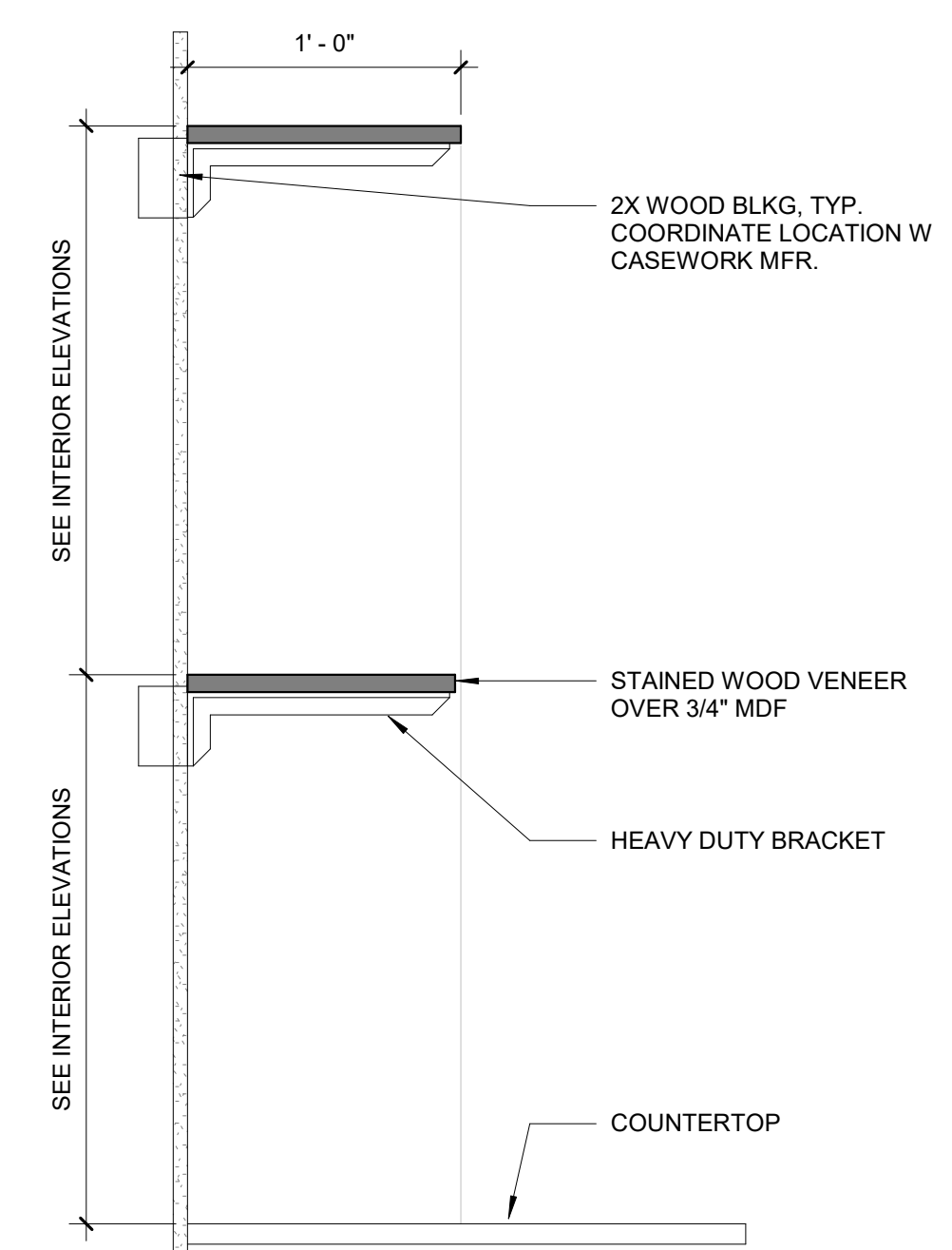
1. SHELVES WIDER THAN 30" TO BE 1" THICK. SHELVES 30" WIDE OR NARROWER TO BE 3/4" THICK, UON.
2. NUMBER OF SHELVES, DOORS AND DRAWERS TO BE AS INDICATED ON INTERIOR ELEVATIONS.
3. LOCKABLE CABINETS INDICATED WITH "(L)" ON INTERIOR ELEVATIONS.
4. STAINED WOOD VENEER ON ALL EXPOSED SURFACES AND EDGES, AS NOTED.
5. STAINED WOOD VENEER ON 3/4" MDF, UON.
6. SEE INTERIOR ELEVATIONS FOR DIMENSIONS NOT NOTED.
7. OPEN CABINETS TO HAVE THE SAME FINISH ON THE INTERIOR OF THE CABINET AS THE EXTERIOR, UON.
8. ALL VOIDS CREATED BY VERTICAL FILLER PANELS AT TOP OF TALL CABINETS AND BOTTOM OF WALL CABINETS ARE TO BE INFILLED WITH FILLER PANELS STAINED TO MATCH ADJACENT SURFACES.



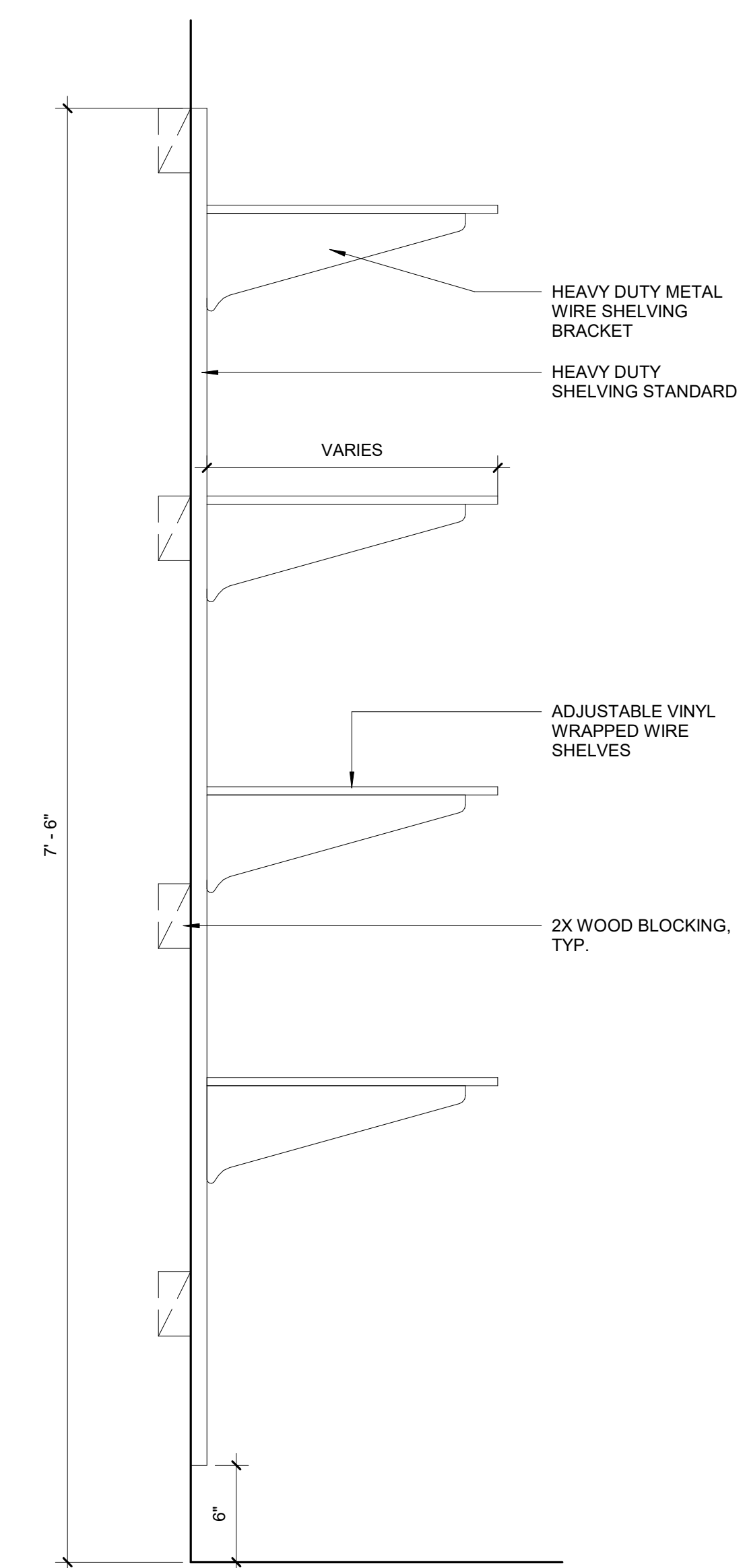
F1 BASE CABINET - SINK W KNEE APRON
1 1/2" = 1'-0"



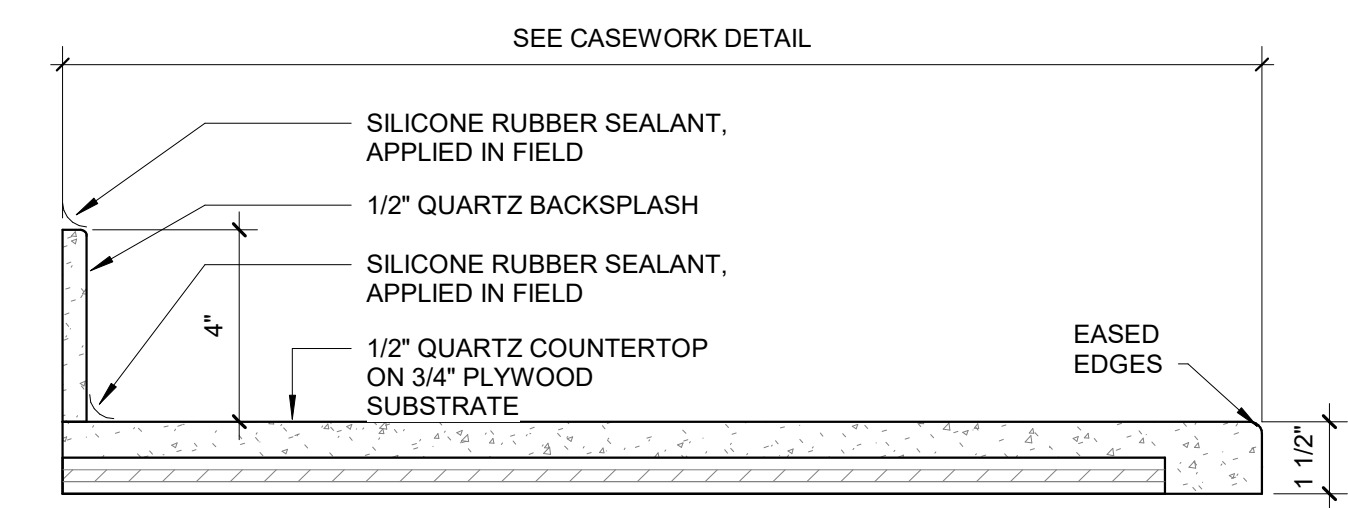
F3 WALL MOUNTED COUNTERTOP
1 1/2" = 1'-0"



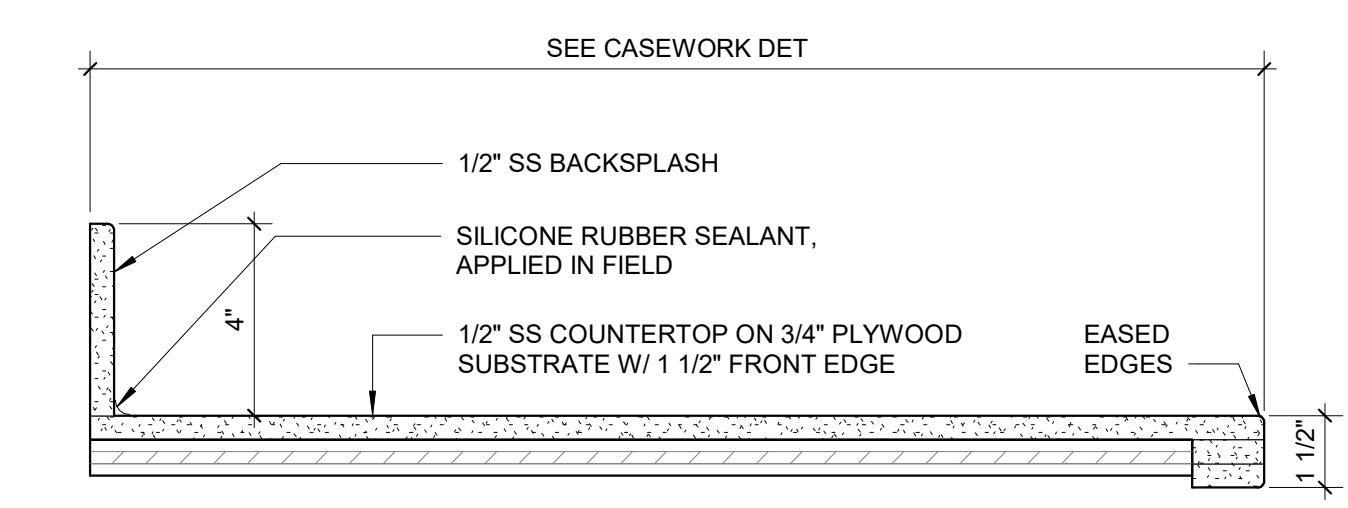
F5 WALL CABINET - OPEN SHELVING
1 1/2" = 1'-0"



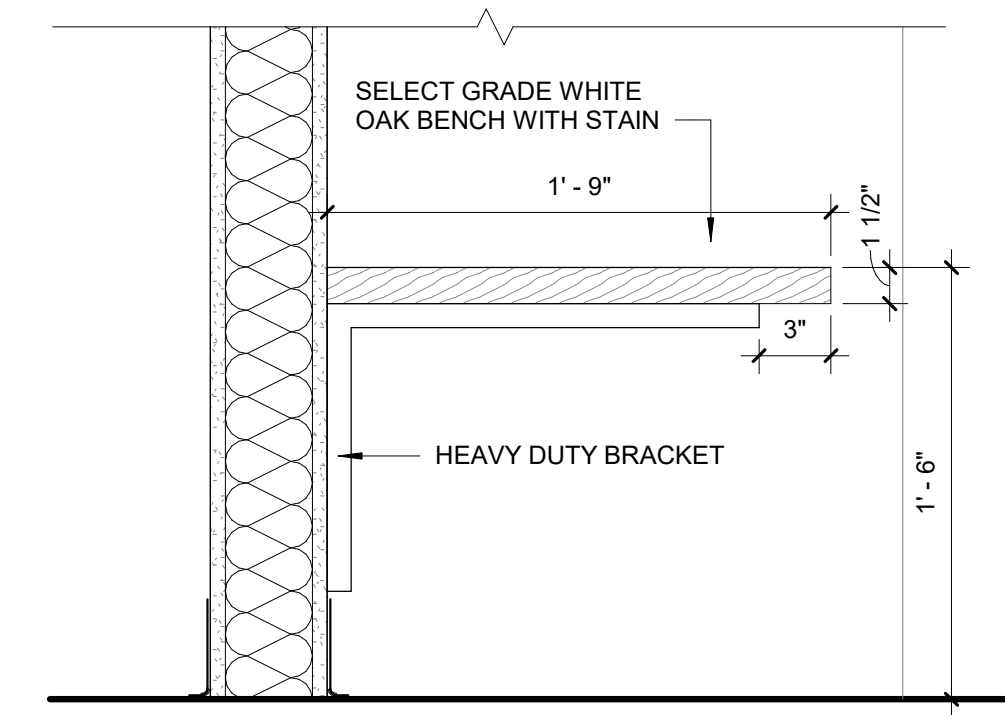
A1 ADJUSTABLE SHELVING W/ METAL STANDARDS
1 1/2" = 1'-0"



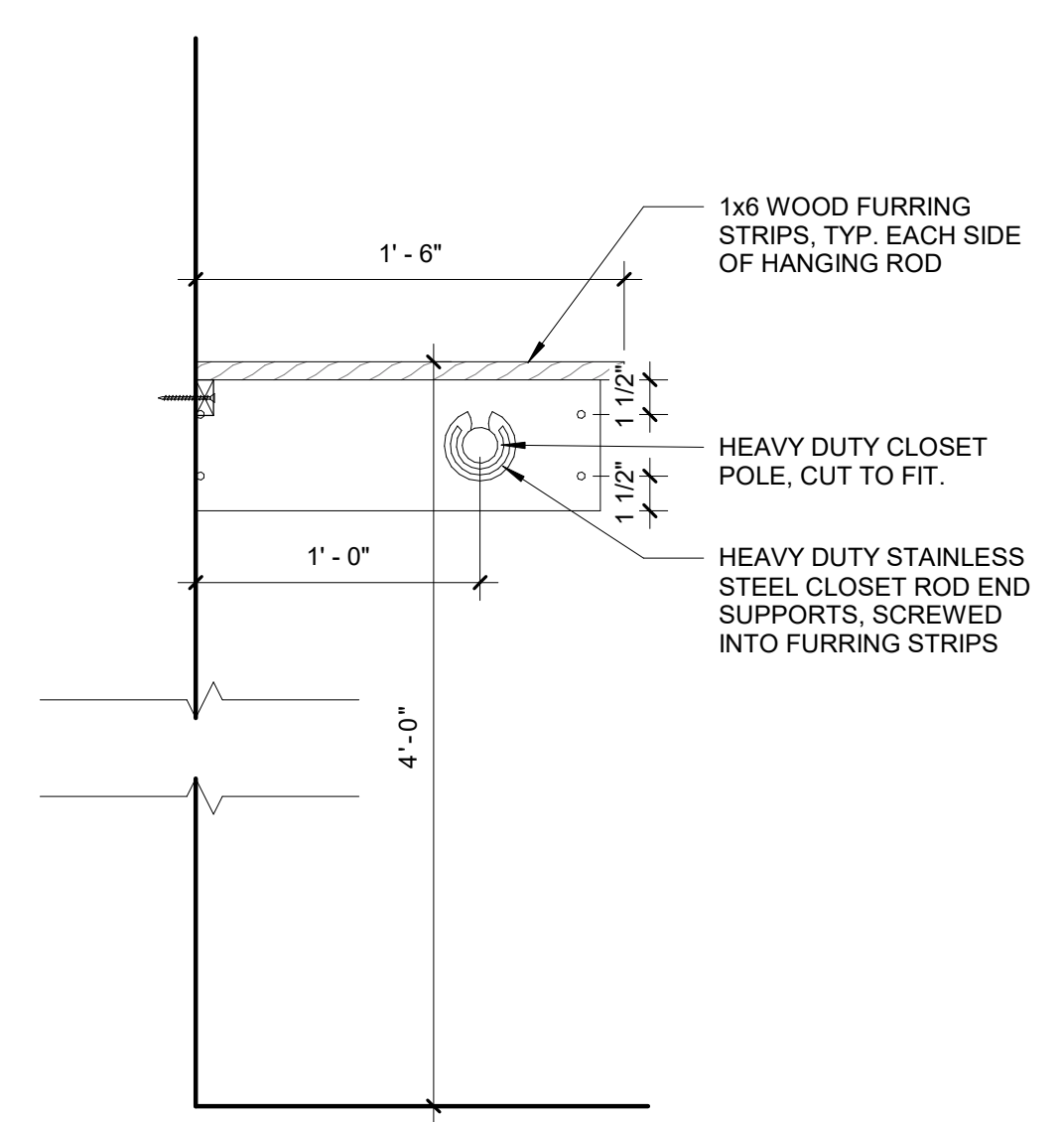
E3 COUNTERTOP - QUARTZ
3" = 1'-0"



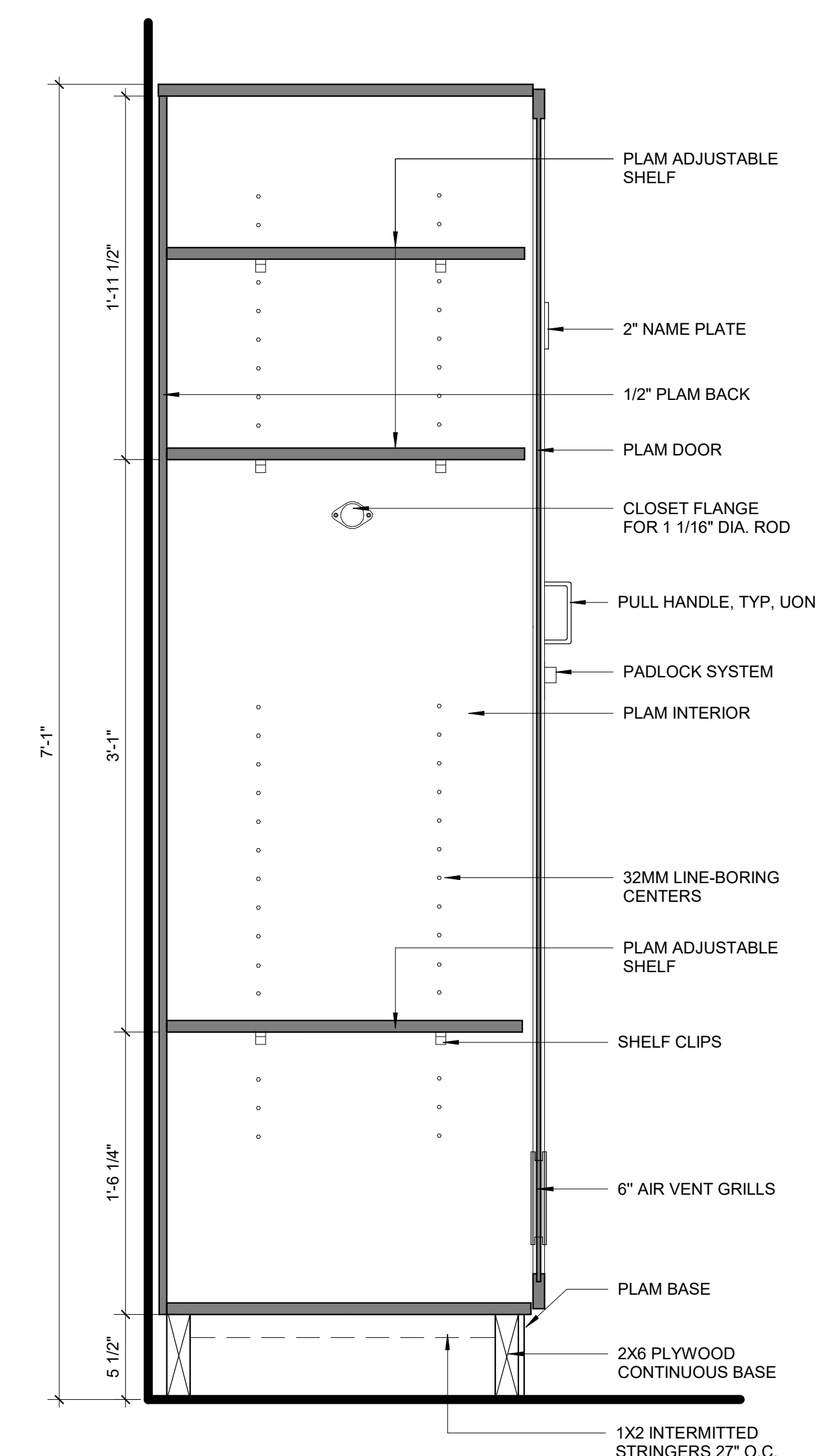
C3 COUNTERTOP - SOLID SURFACE
3" = 1'-0"



C5 LOCKERS - BENCH SECTION DETAIL
1 1/2" = 1'-0"



A5 STOR 113A SHELF
1 1/2" = 1'-0"

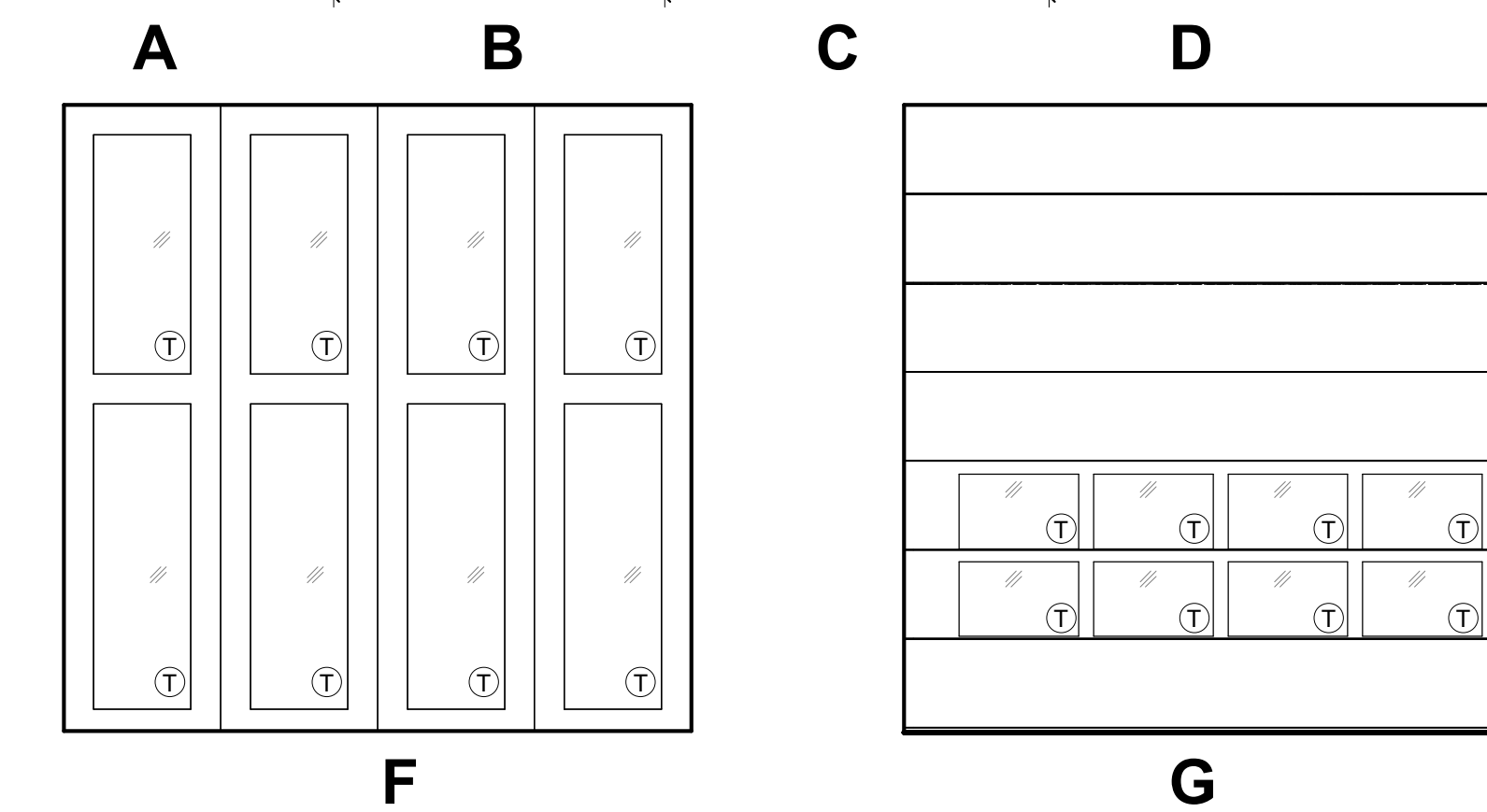
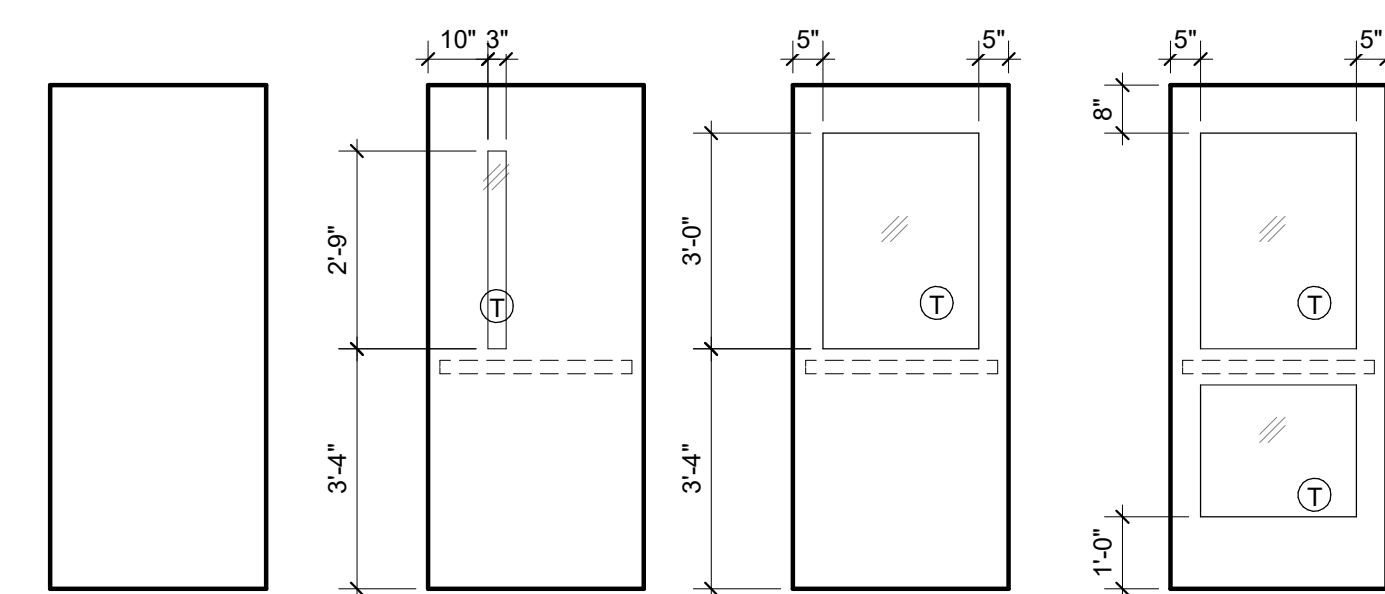


A7 DORM WARDROBES
1 1/2" = 1'-0"

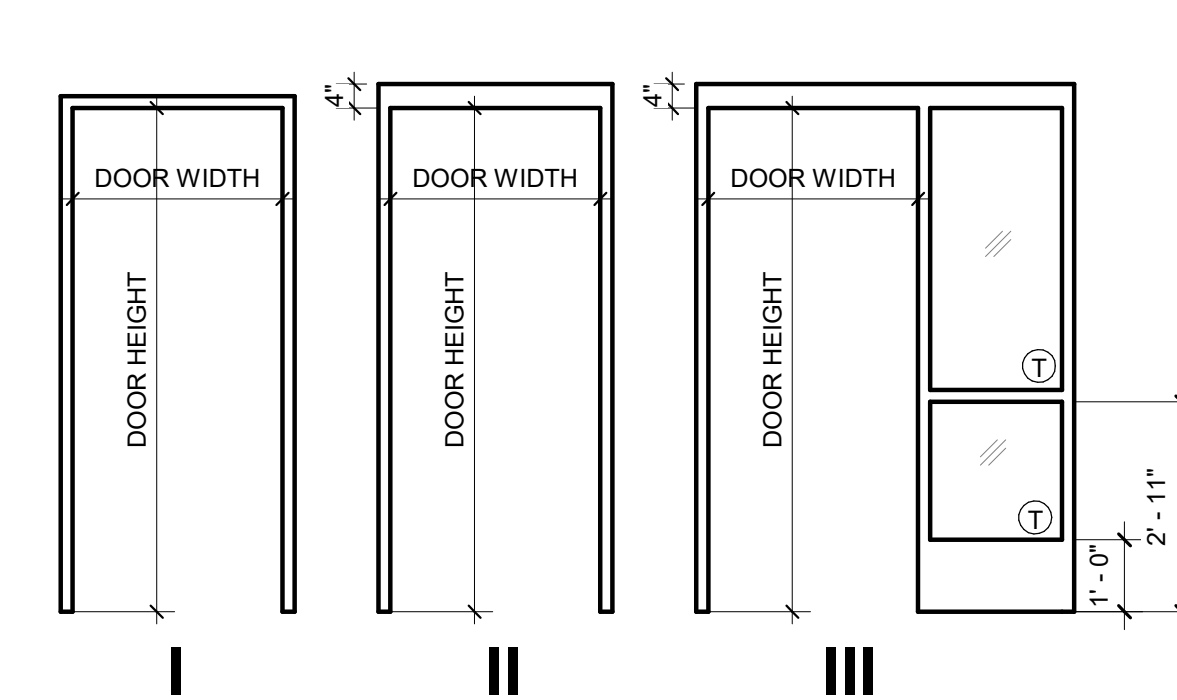
DOOR, FRAME AND SIGNAGE SCHEDULE

DOOR NUMBER	DOOR						FRAME			HARDWARE	FIRE RATING LABEL	SIGN TYPE	COMMENTS
	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH				
100.1	D	3'-0"	7'-0"	1 3/4"	ALUM	FACT	III	HM	PAINT	SET 01			
100.2	C	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 05			
102	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 20	D		
103	B	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 16	B		
104.1	B	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 09	B, E		
104.2	B	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 07	B, E	CASED OPENING	
105	-	4'-0"	7'-0"	-	-	-	-	HM	PAINT	-	-		
106	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 15	B		
107.1	B	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 16	B		
107.2	D	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 04			
107A	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 16			
108.1	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 17	B		
108.2	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 06	B		
108A	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 20	C		
108B	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 20	C		
108C	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 20	D		
108D	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 20	D		
109.1	-	4'-0"	7'-0"	-	-	-	-	HM	PAINT	-	-	CASED OPENING	
109.2	D	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 01			
111.1	B	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 09	B		
111.2	B	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 09	B, E		
112.1	B	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 06	B		
112.2	D	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 01	B, H		
112A	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 21	A		
113	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 18	20 MIN	B	
113A	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 21	20 MIN	A	
114	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 14	20 MIN	A	
115	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 08	20 MIN	A	
116	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 14	20 MIN	A	
117	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 08	20 MIN	B	
118	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 14	20 MIN	A	
119.1	B	3'-0"	7'-0"	1 3/4"	HM	PAINT	I	HM	PAINT	SET 06	20 MIN	B	
119.2	B	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 07	20 MIN	B, E	
120	A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	SET 14	20 MIN	A	
121	B	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 11	B		
122	B	3'-8"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 13	B		
123	A	3'-8"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 13	B		
124	A	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 12	B		
125	E	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 10	90 MIN	B	
126	A	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 03	B		
127.1	C	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 02	B, G		
127.2	F	14'-0"	14'-0"	3"	ALUM	FACT	*	ALUM	FACT	-	-	EXTERIOR, FOUR-FOLD DOORS, PROVIDE MANUFACTURERS UV TINTED INSULATED GLAZING TO MATCH SCHEDULED WINDOW GLAZING	
127.3	F	14'-0"	14'-0"	3"	ALUM	FACT	*	ALUM	FACT	-	-	EXTERIOR, FOUR-FOLD DOORS, PROVIDE MANUFACTURERS UV TINTED INSULATED GLAZING TO MATCH SCHEDULED WINDOW GLAZING	
127.4	F	14'-0"	14'-0"	3"	ALUM	FACT	*	ALUM	FACT	-	-	EXTERIOR, FOUR-FOLD DOORS, PROVIDE MANUFACTURERS UV TINTED INSULATED GLAZING TO MATCH SCHEDULED WINDOW GLAZING	
127.5	F	14'-0"	14'-0"	3"	ALUM	FACT	*	ALUM	FACT	-	-	EXTERIOR, FOUR-FOLD DOORS, PROVIDE MANUFACTURERS UV TINTED INSULATED GLAZING TO MATCH SCHEDULED WINDOW GLAZING	
127.6	F	14'-0"	14'-0"	3"	ALUM	FACT	*	ALUM	FACT	-	-	EXTERIOR, FOUR-FOLD DOORS, PROVIDE MANUFACTURERS UV TINTED INSULATED GLAZING TO MATCH SCHEDULED WINDOW GLAZING	
127.7	C	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 02	B, G		
127.8	G	14'-0"	14'-0"	3"	ALUM	FACT	*	ALUM	FACT	-	-	ALTERNATE A-1: DOOR TO BE TYPE F.	
127.9	G	14'-0"	14'-0"	3"	ALUM	FACT	*	ALUM	FACT	-	-	ALTERNATE A-1: DOOR TO BE TYPE F.	
127.10	G	14'-0"	14'-0"	3"	ALUM	FACT	*	ALUM	FACT	-	-	ALTERNATE A-1: DOOR TO BE TYPE F.	
127.11	G	14'-0"	14'-0"	3"	ALUM	FACT	*	ALUM	FACT	-	-	ALTERNATE A-1: DOOR TO BE TYPE F.	
127.12	G	14'-0"	14'-0"	3"	ALUM	FACT	*	ALUM	FACT	-	-	ALTERNATE A-1: DOOR TO BE TYPE F.	
127.13	C	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 02	B, G		
200	C	3'-0"	7'-0"	1 3/4"	HM	PAINT	II	HM	PAINT	SET 22			

DOOR TYPES:



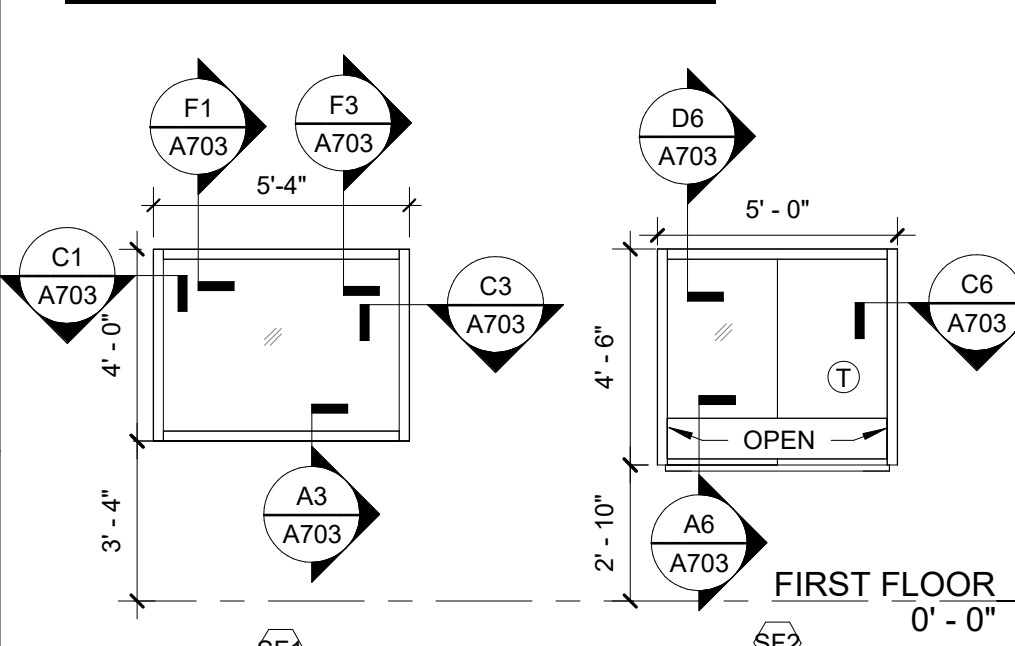
DOOR FRAME TYPES:



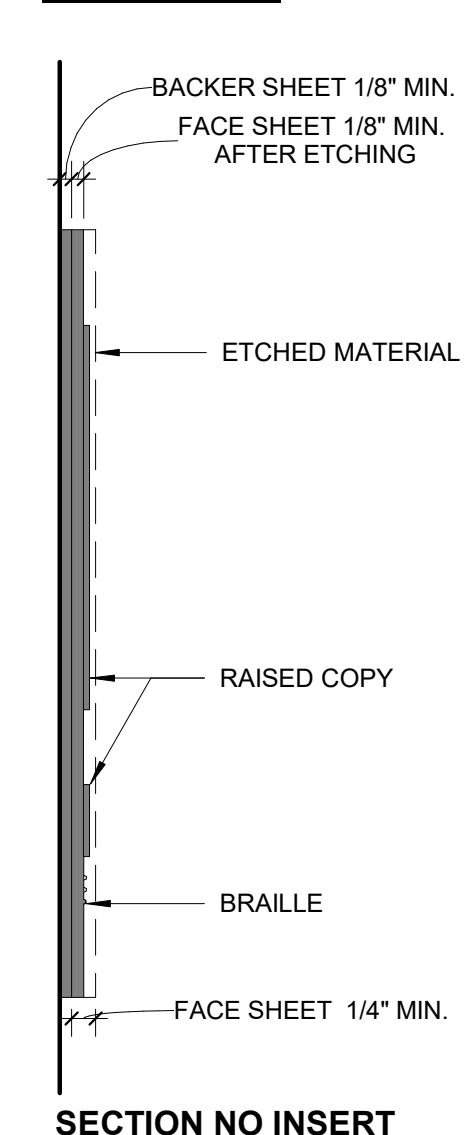
FENESTRATION SYMBOL LEGEND:

- INDICATES GLAZING
- INDICATES TEMPERED GLAZING

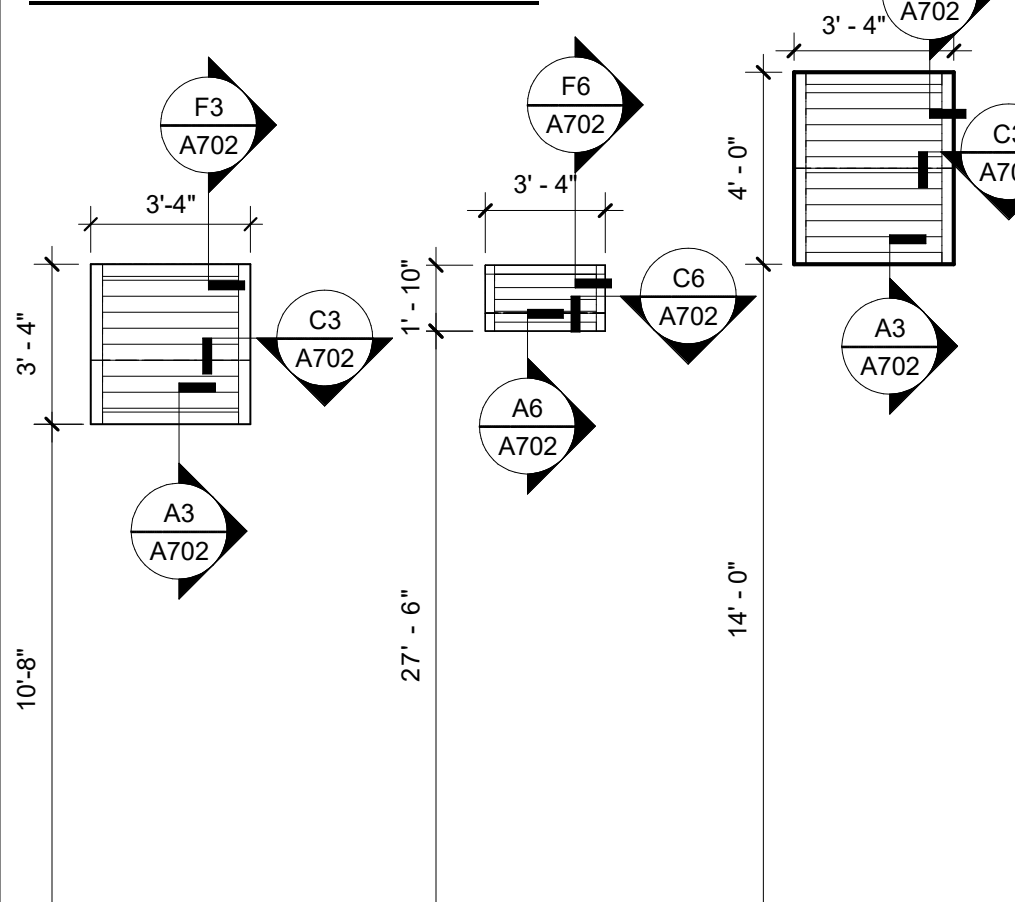
STOREFRONT SCHEDULE:



TYPICAL INTERIOR SIGN SECTION:



LOUVER SCHEDULE:



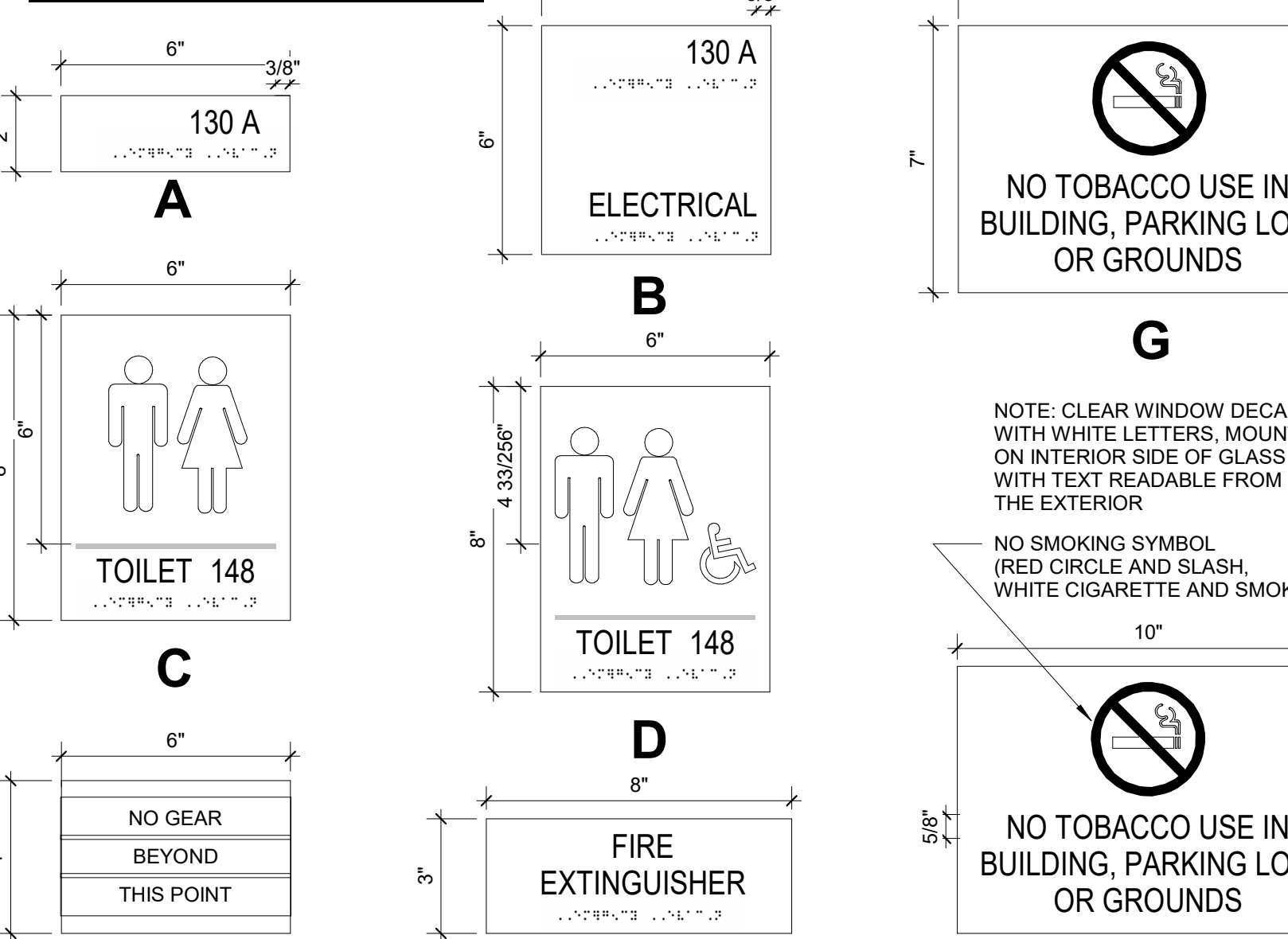
DOOR & FRAME GENERAL NOTES:

- SEE DOOR FRAME DETAILS ON SHEET A701 FOR FRAME DEPTHS.
- PAINT ALL HM FRAMES. PAINT ALL HM DOORS.
- PROVIDE FIRE-RATED SAFETY GLAZING AT RATED OPENINGS.
- ADJUST MASONRY TO PROVIDE A 3/8\"/>

INTERIOR SIGNAGE NOTES:

- SEE INTERIOR FINISHES PLANS FOR SIGNAGE LOCATIONS NOT NOTED IN DOOR, FRAME, AND SIGNAGE SCHEDULE. ON FINISHES PLANS, "ST" DENOTES SIGN TYPE. FOR EXAMPLE, "ST-K" DENOTES SIGN TYPE K.
- REFERENCE DOOR SCHEDULE FOR SIGNAGE LOCATIONS.
- TEXT SHOWN ON SIGNS IS SAMPLE TEXT ONLY.
- SEE SECTION FOR TYPICAL NOTES.
- SUBMIT SIGNAGE ROOM NUMBERING PLAN, SHOWING LOCATIONS OF SIGNS AND THEIR TEXT FOR ARCHITECT AND OWNER'S APPROVAL PRIOR TO FABRICATION.
- MOUNT ALL DOOR SIGNS 60\"/>

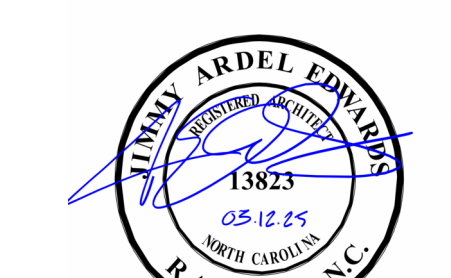
INTERIOR SIGN TYPES:



PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID NO. 102-25C
138 OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS



DKA JOB NUMBER
2324

REVISIONS

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BID DOCUMENTS
03/12/2025

SHEET TITLE

FENESTRATION SCHEDULE AND NOTES
A700



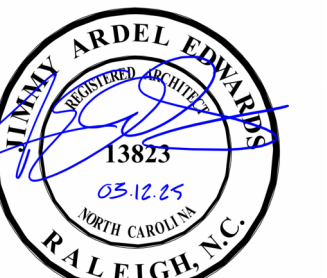
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503 OBERLIN ROAD | SUITE 300
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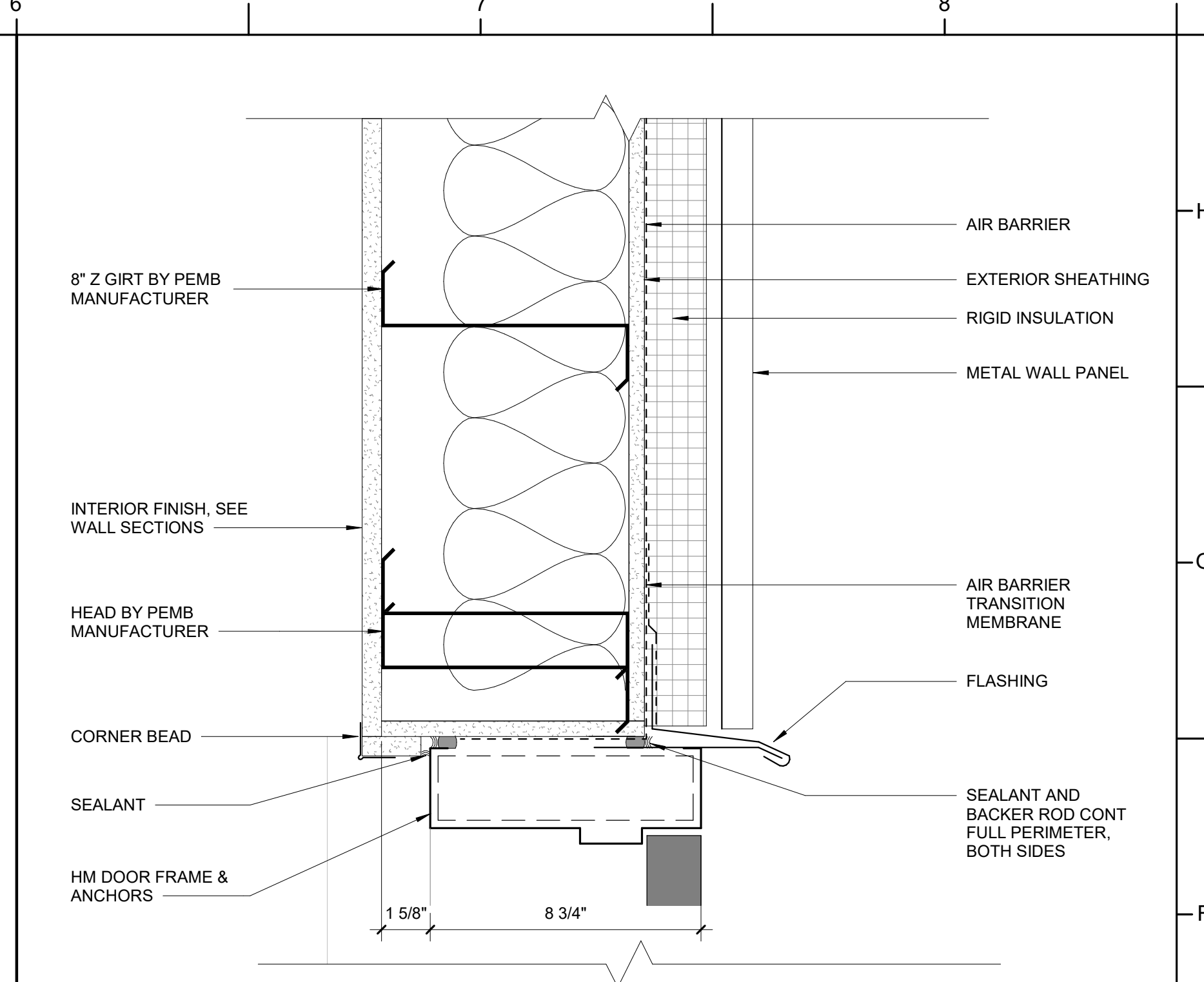
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03/12/2025

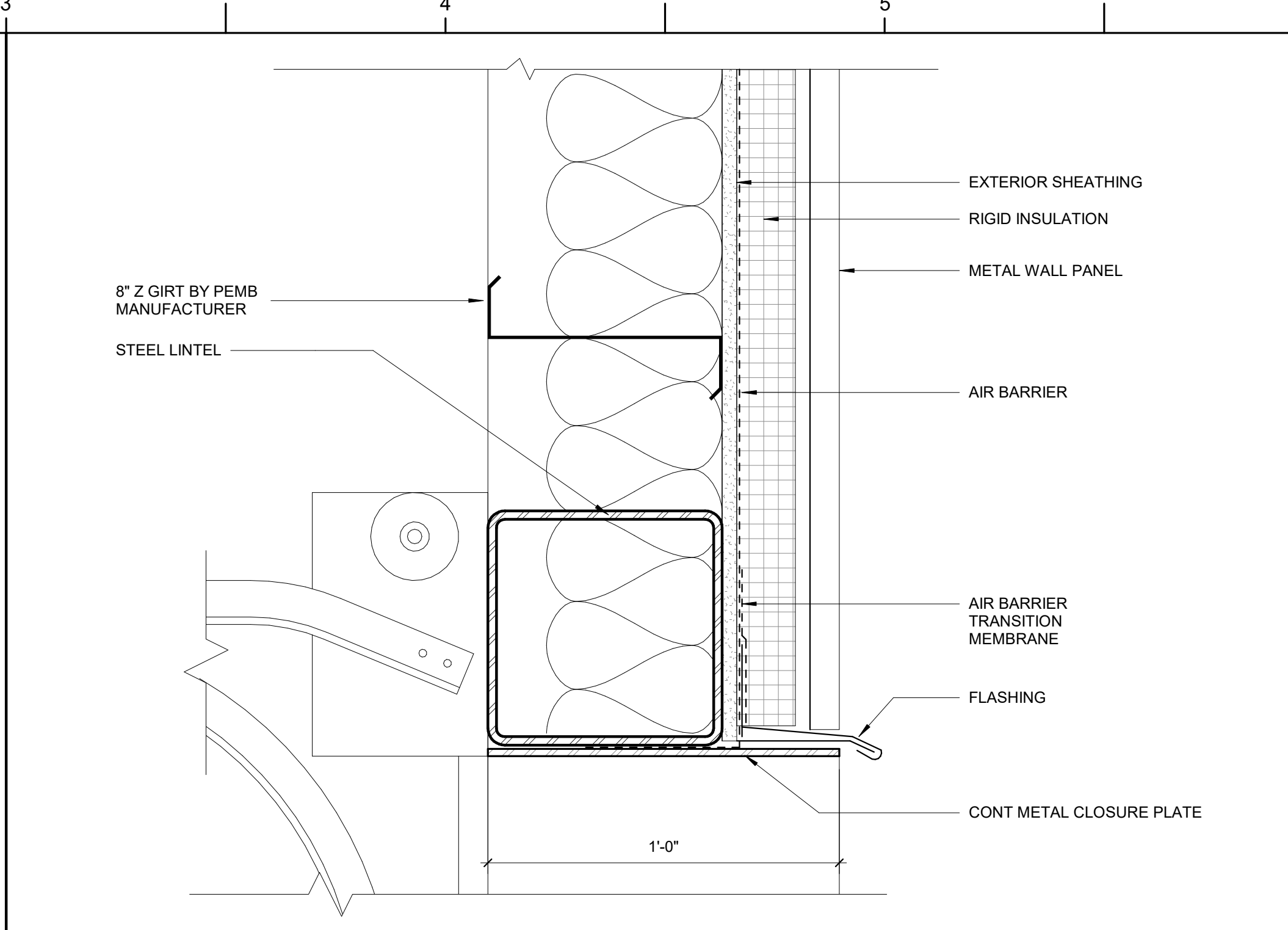
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FENESTRATION DETAILS

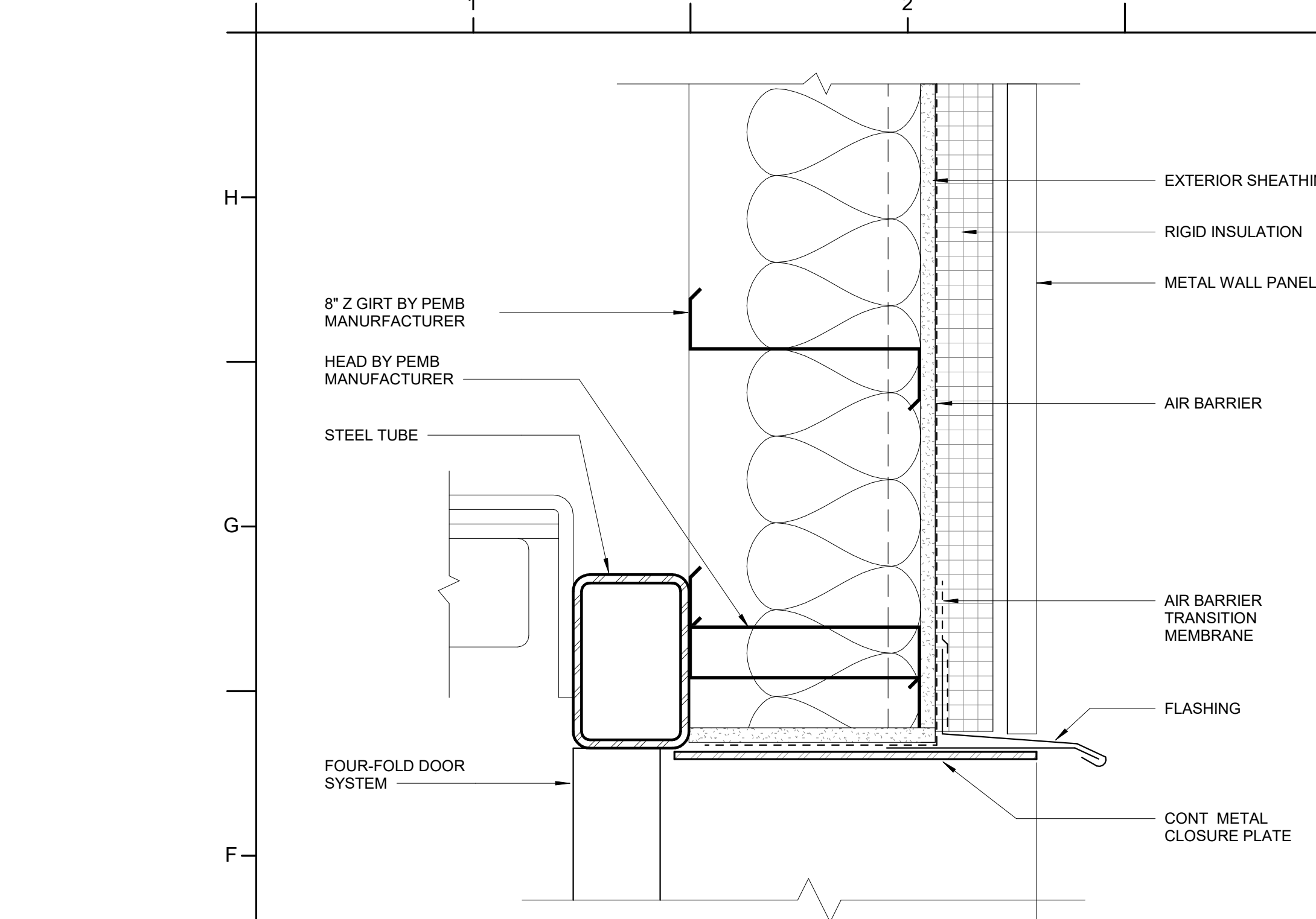
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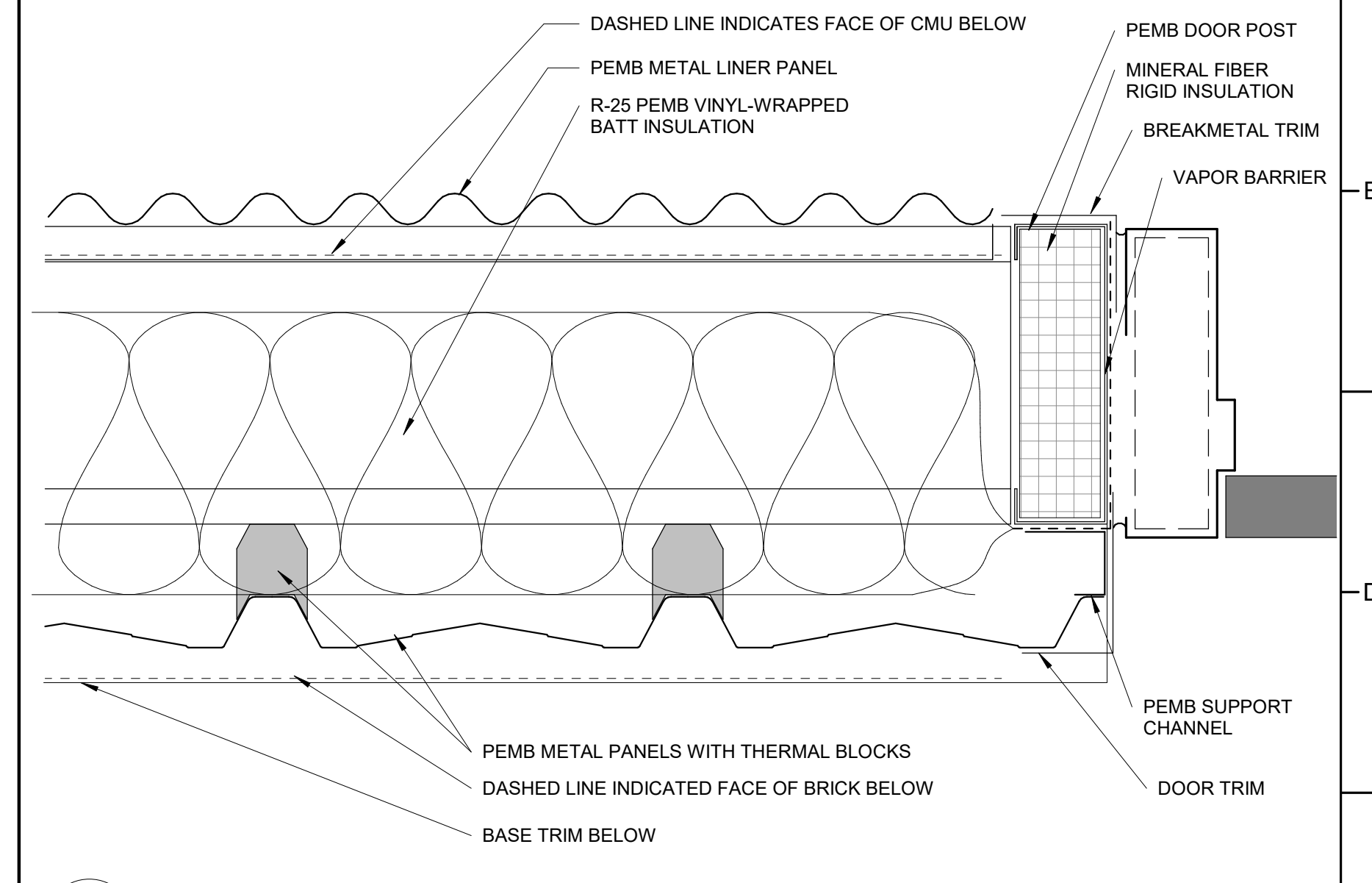
F6 SECTION DETAIL - EXTERIOR HM HEAD @ PEMB/METAL SIDING
3" = 1'-0"



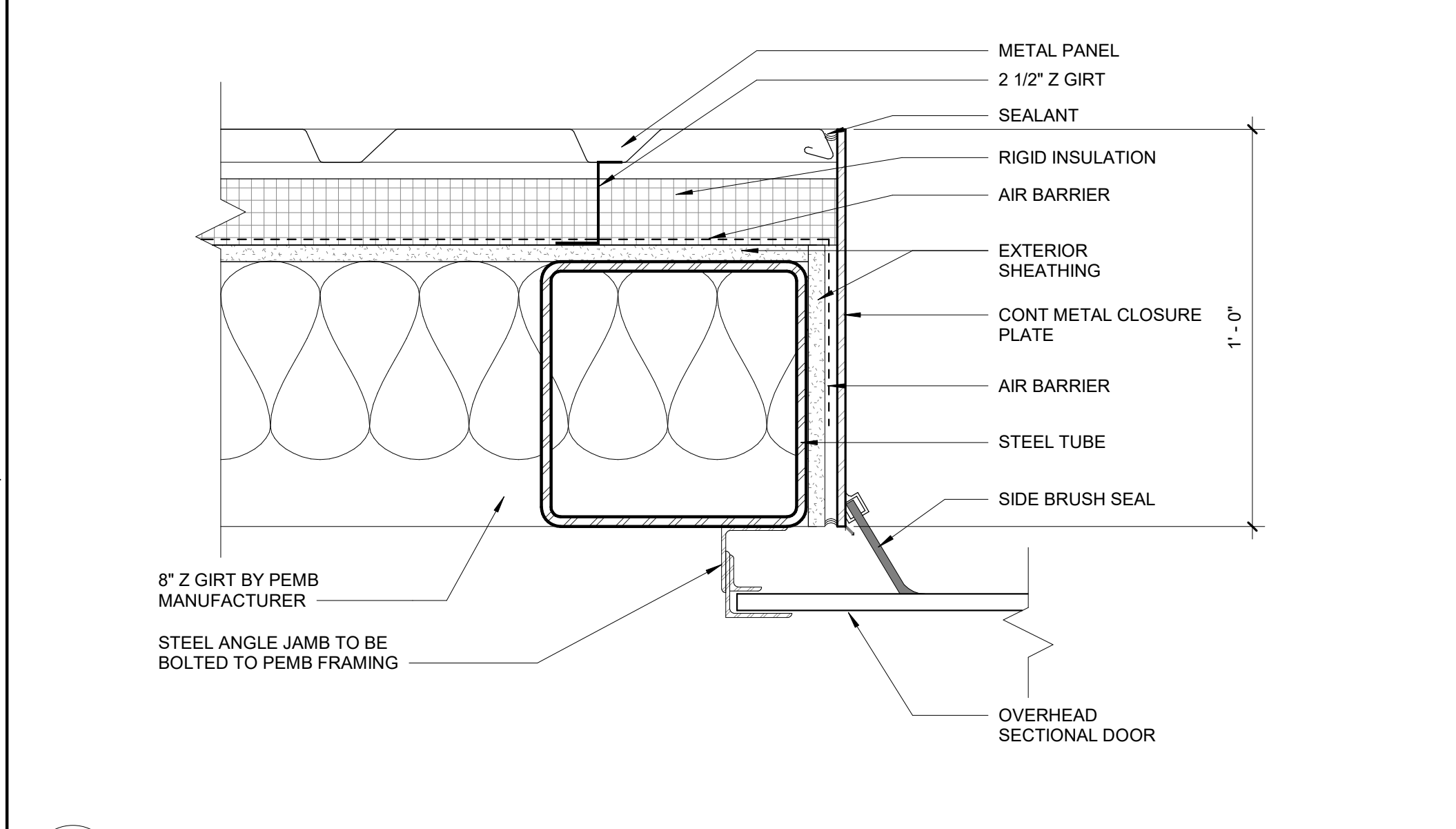
F3 SECTION DETAIL - OVERHEAD DOOR HEAD
3" = 1'-0"



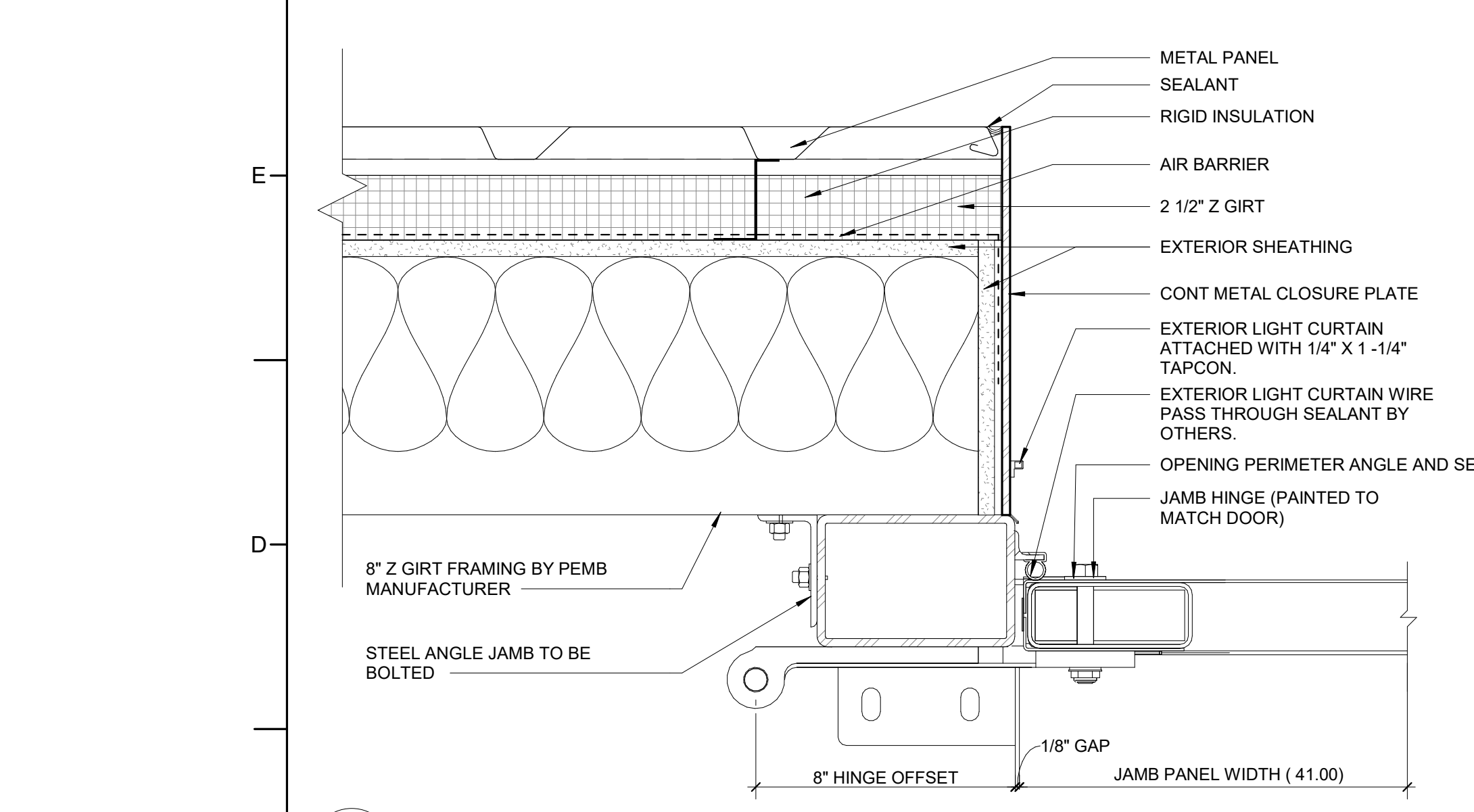
F1 SECTION DETAIL - FOLDING DOOR HEAD
3" = 1'-0"



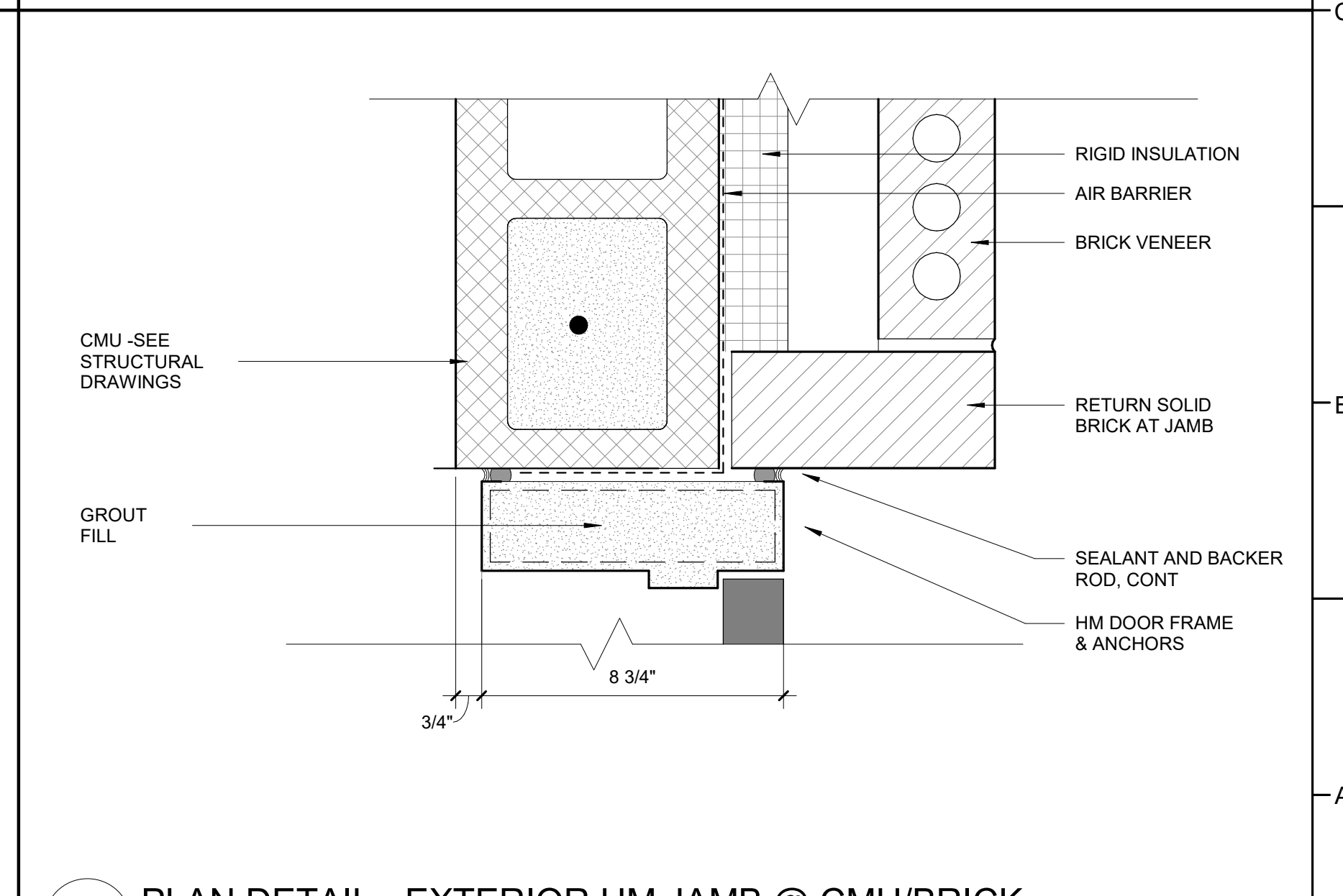
C6 PLAN DETAIL - EXTERIOR HM JAMB @ PEMB/METAL PANEL
3" = 1'-0"



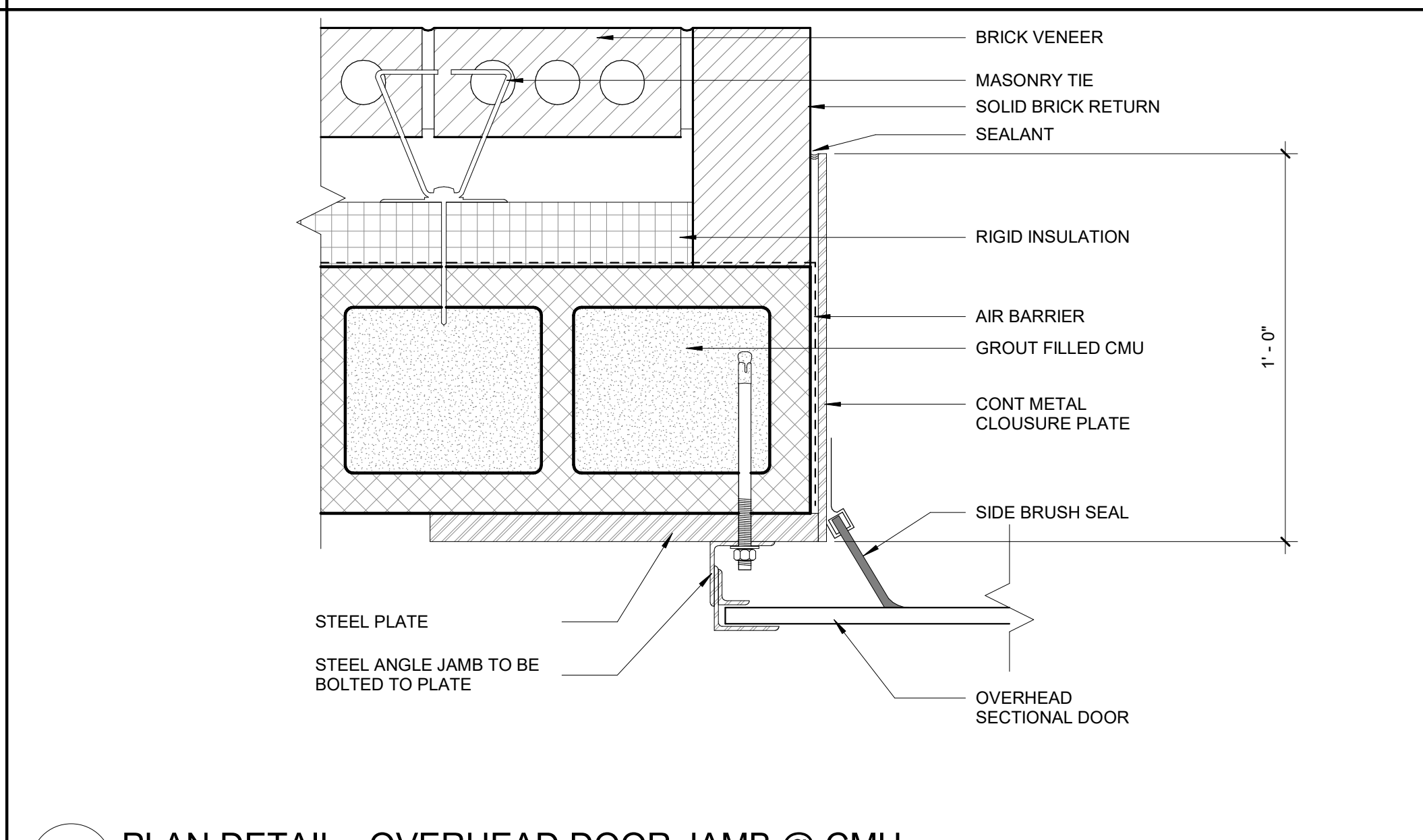
C3 PLAN DETAIL - OVERHEAD DOOR JAMB @ PEMB/METAL PANEL
3" = 1'-0"



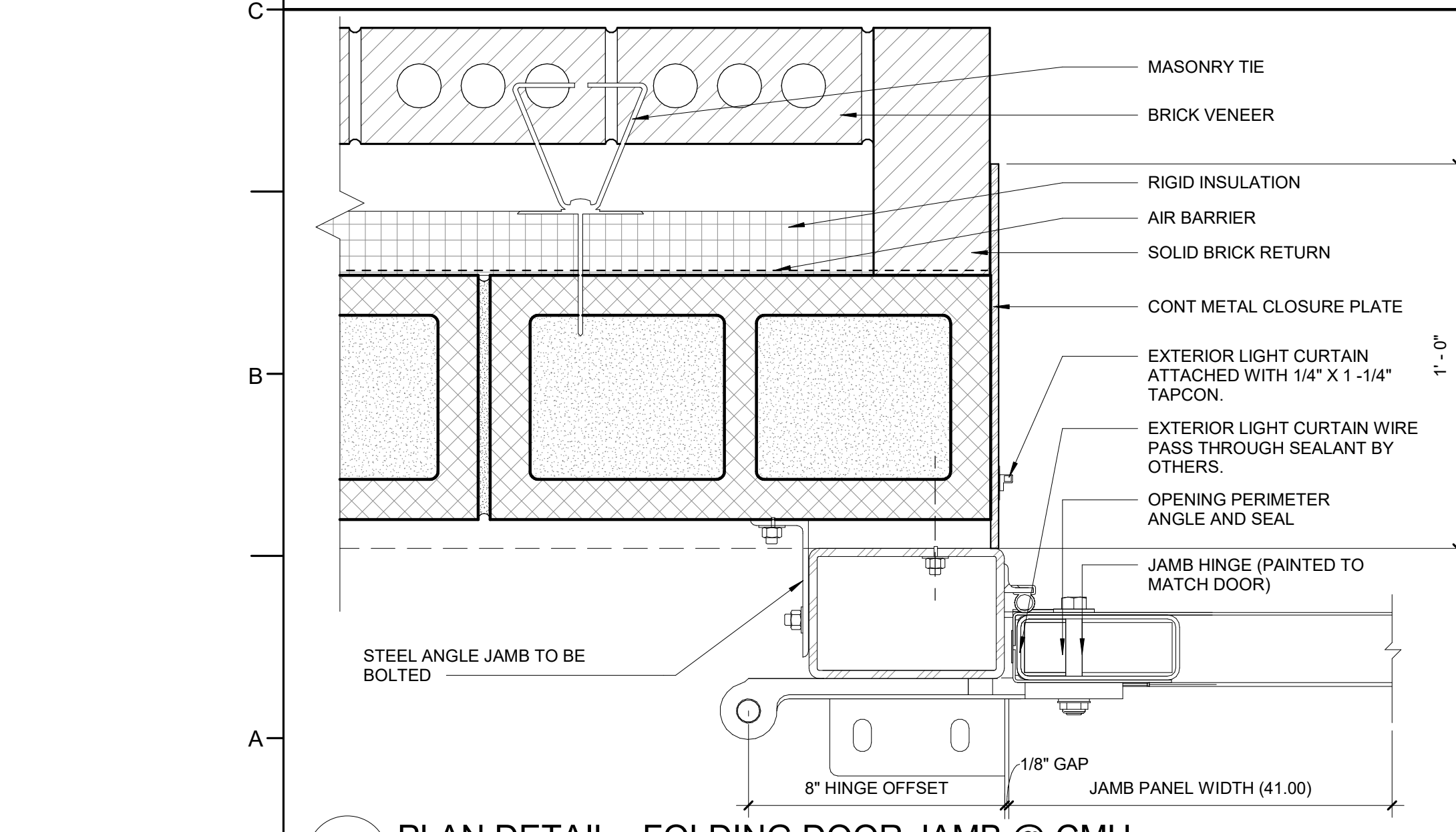
C1 PLAN DETAIL - FOLDING DOOR JAMB @ PEMB/METAL PANEL
3" = 1'-0"



A6 PLAN DETAIL - EXTERIOR HM JAMB @ CMU/BRICK
3" = 1'-0"



A3 PLAN DETAIL - OVERHEAD DOOR JAMB @ CMU
3" = 1'-0"



A1 PLAN DETAIL - FOLDING DOOR JAMB @ CMU
3" = 1'-0"



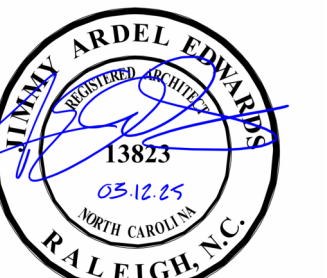
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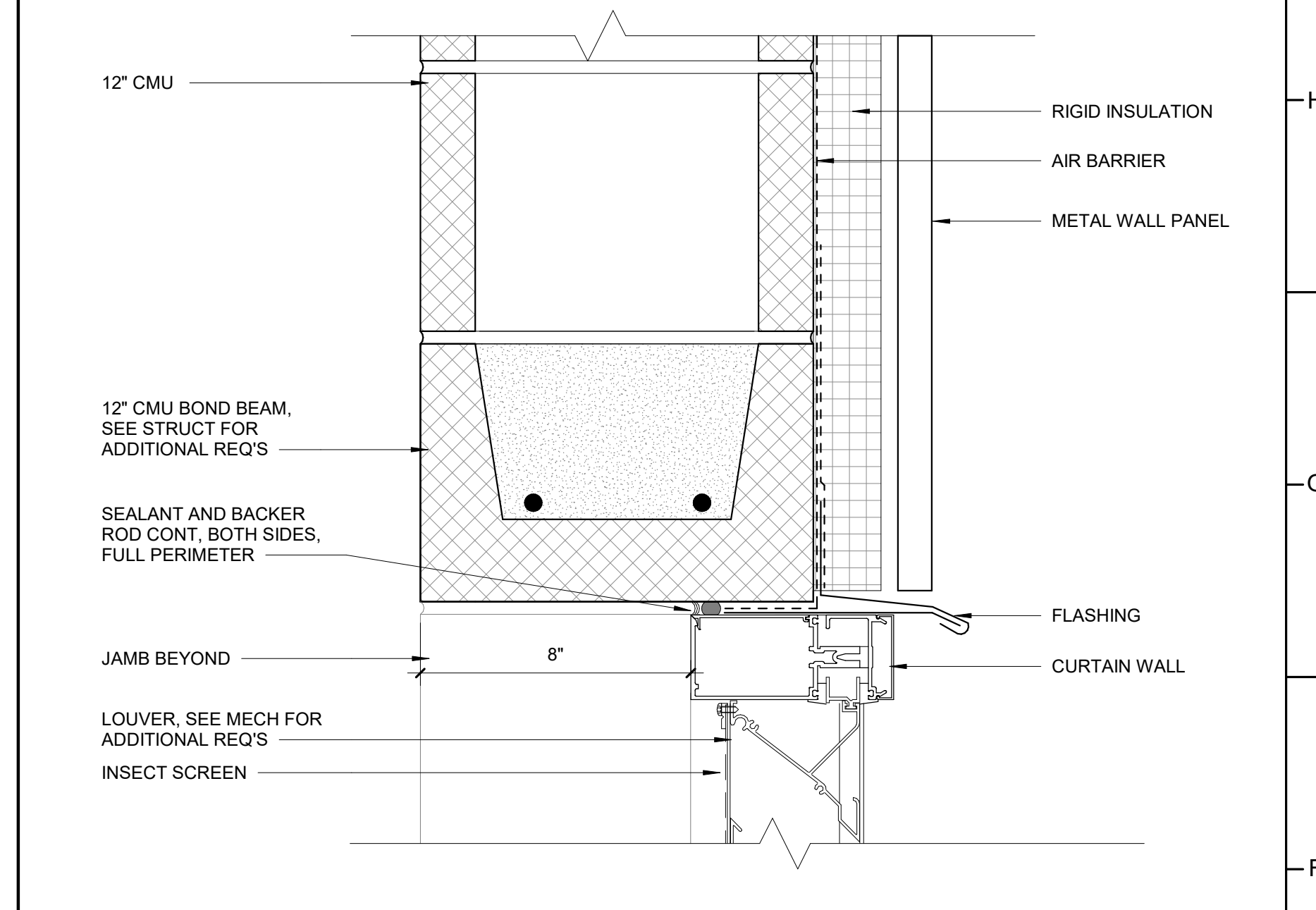
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PM: ALEXANDRE PENEGRÉ
Drawn By: BG
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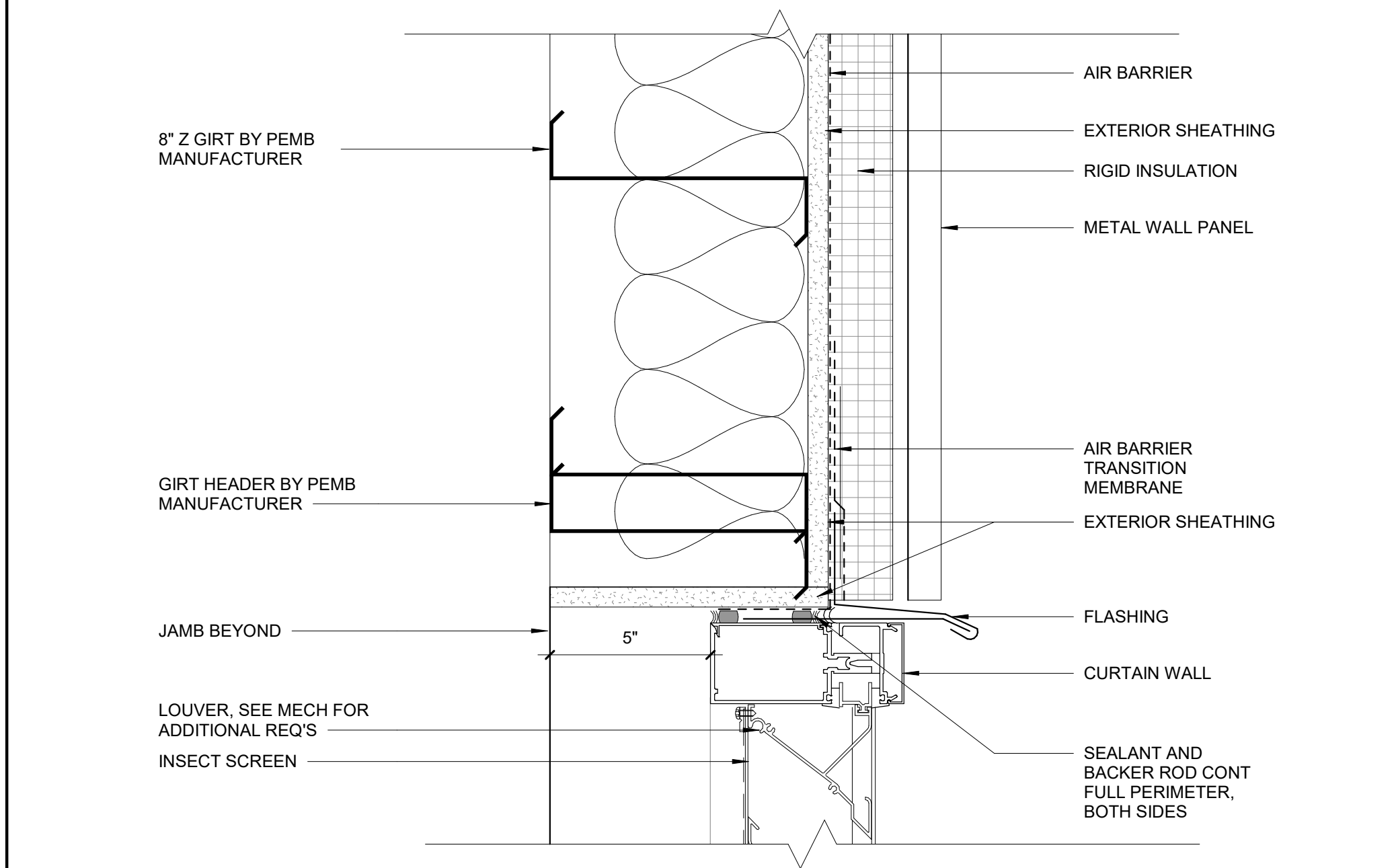
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03/12/2025

SHEET TITLE
FENESTRATION DETAILS

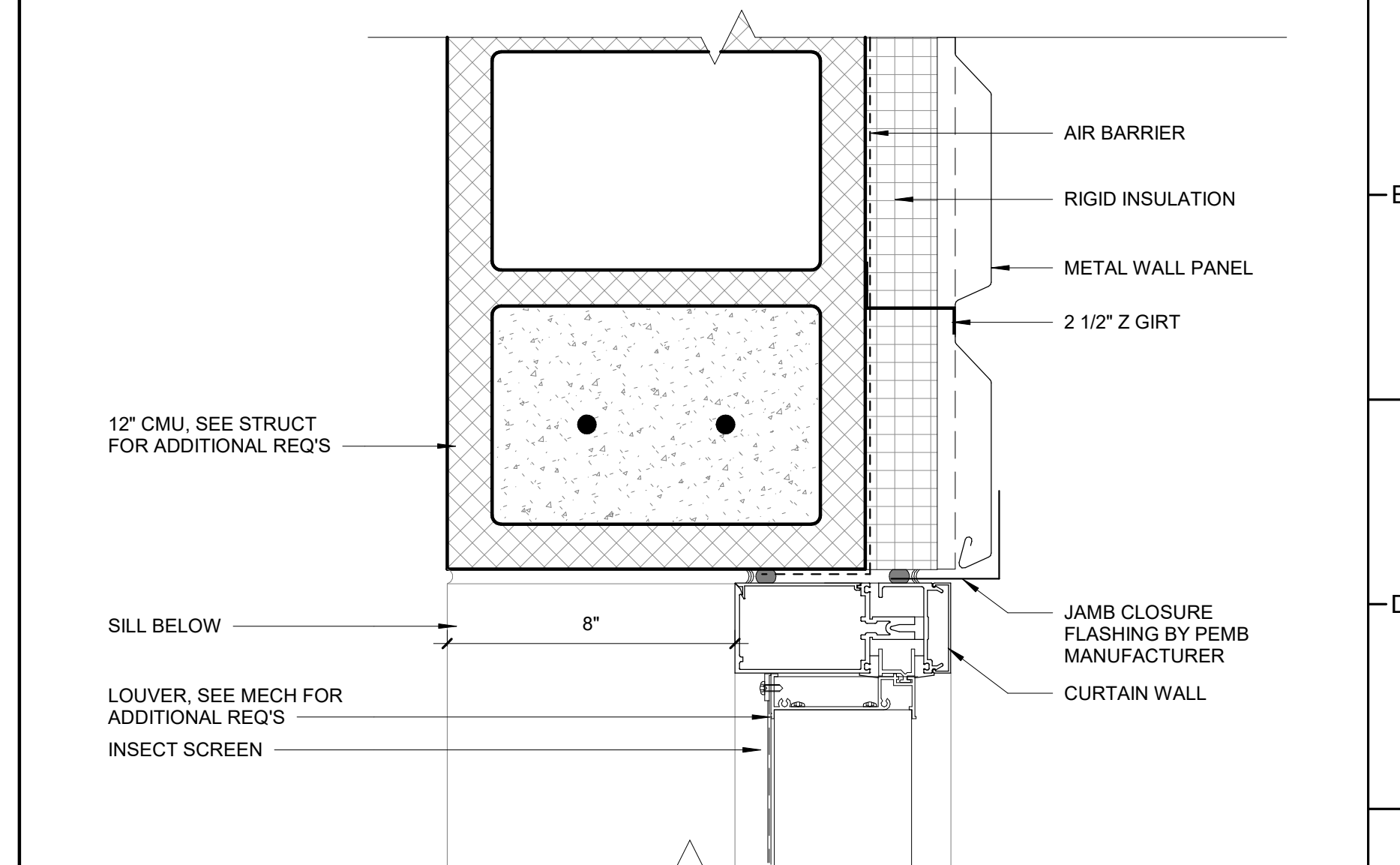
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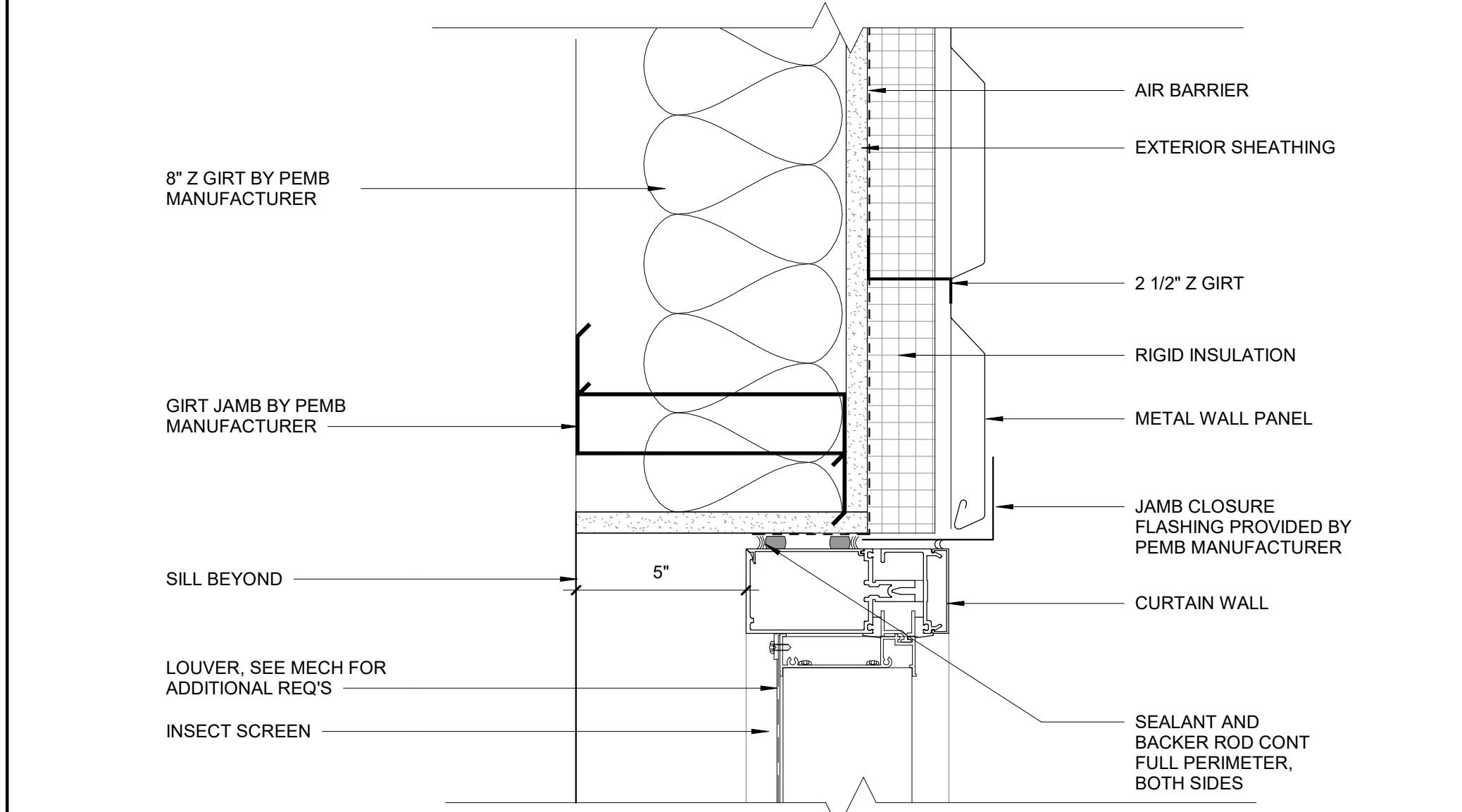
F6 SECTION DETAIL - LOUVER HEAD @ CMU/METAL PANEL
3" = 1'-0"



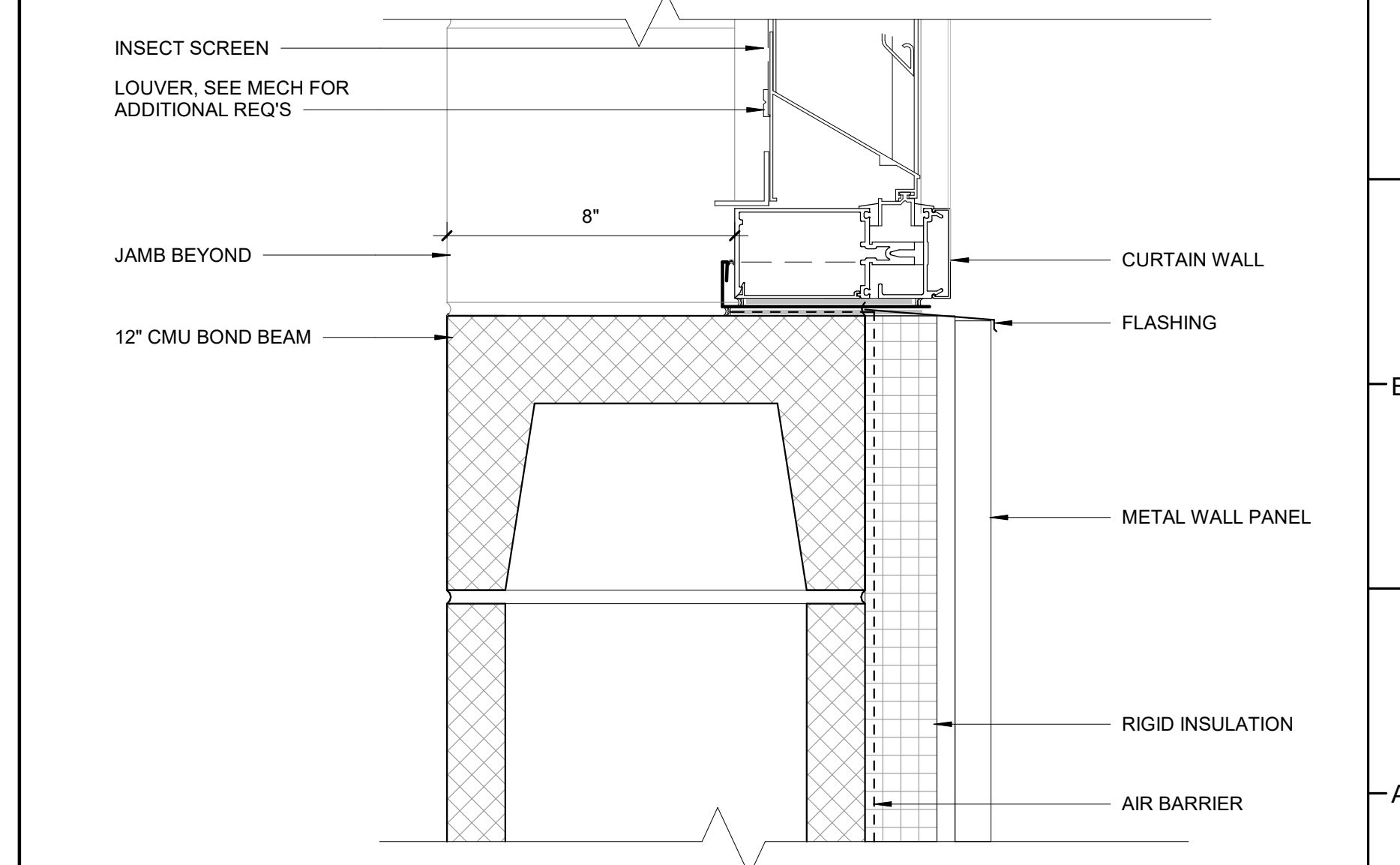
F3 SECTION DETAIL - LOUVER HEAD @ PEMB/METAL PANEL
3" = 1'-0"



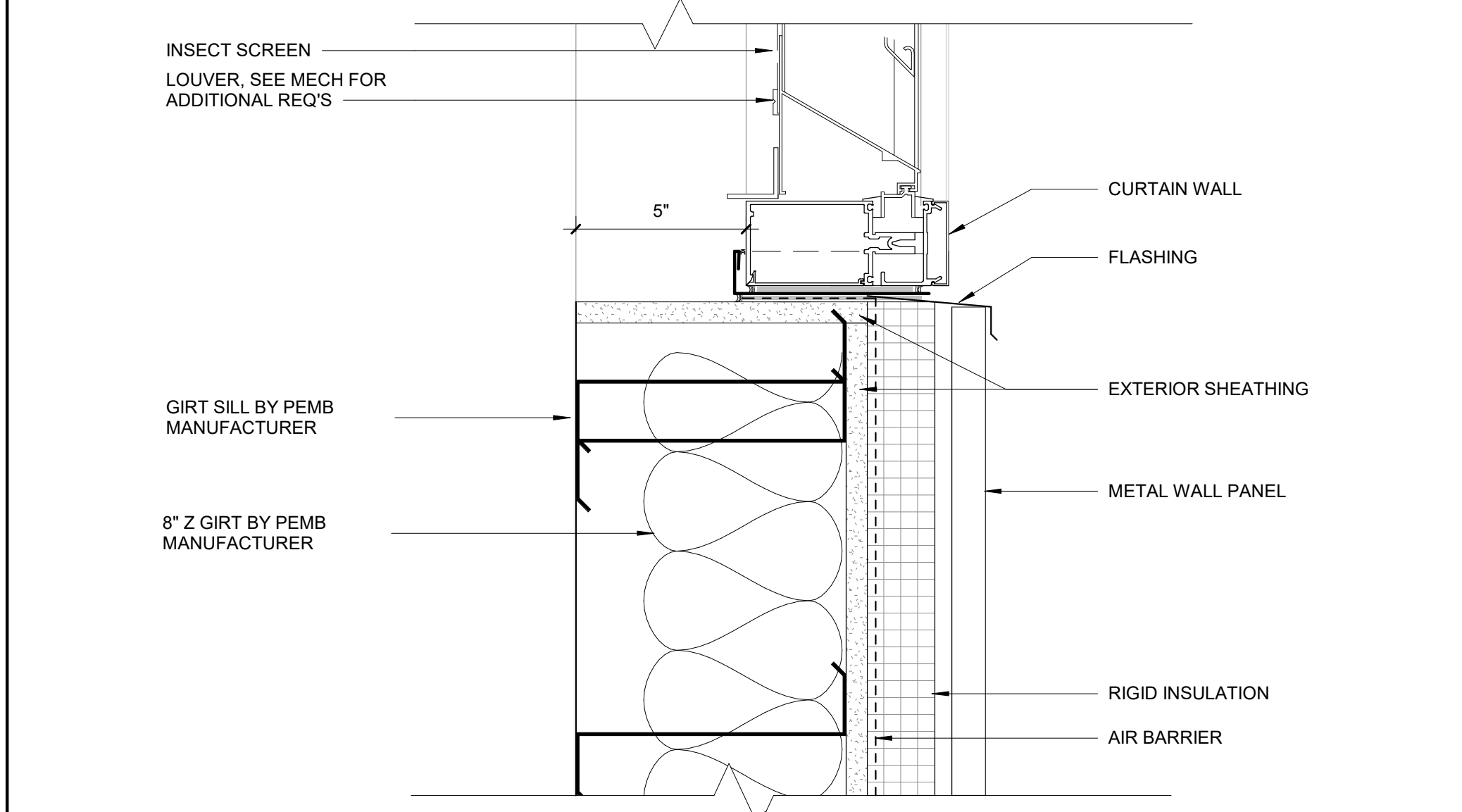
C6 PLAN DETAIL - LOUVER JAMB @ CMU/METAL PANEL
3" = 1'-0"



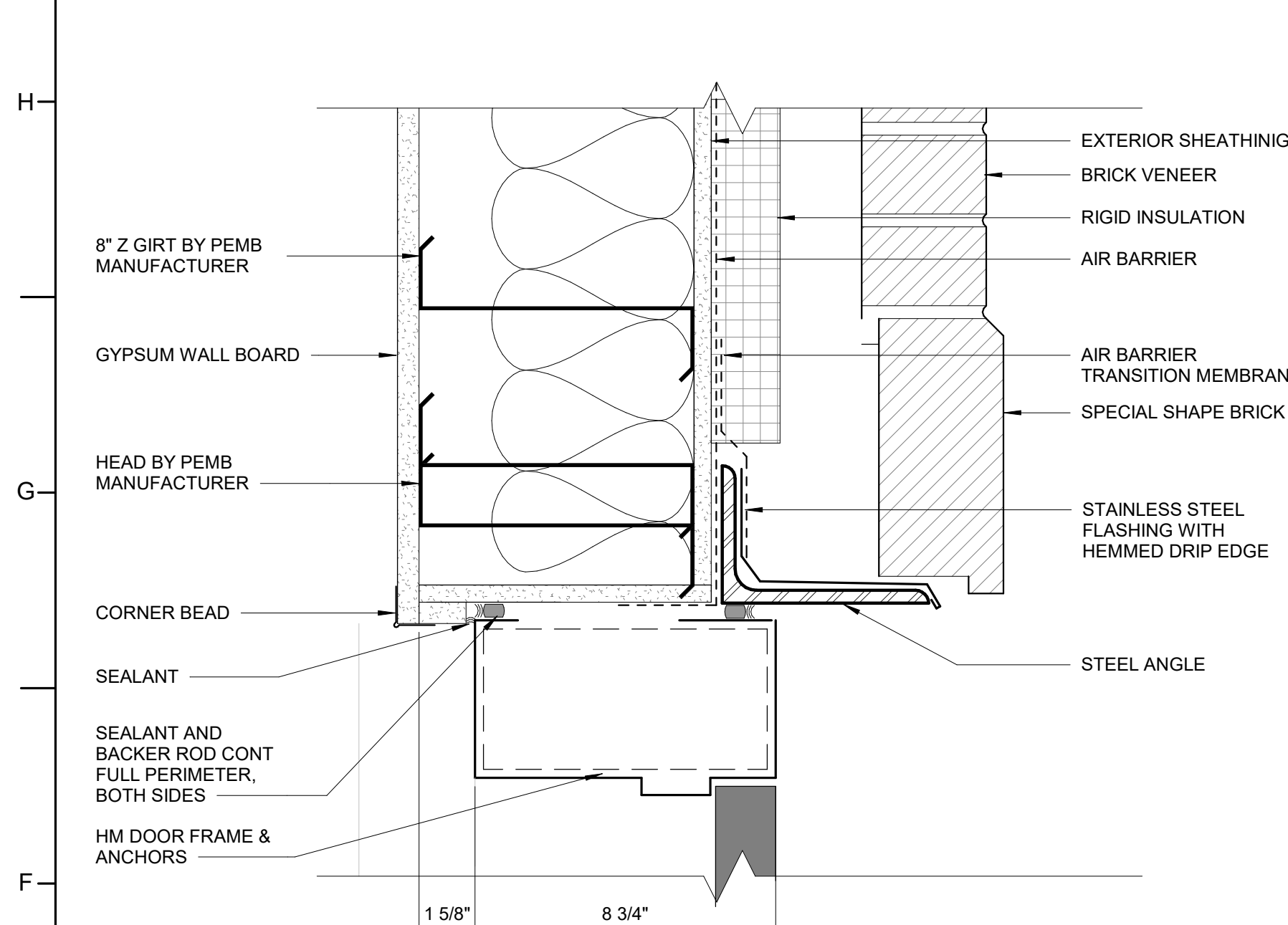
C3 PLAN DETAIL - LOUVER JAMB @ PEMB/METAL PANEL
3" = 1'-0"



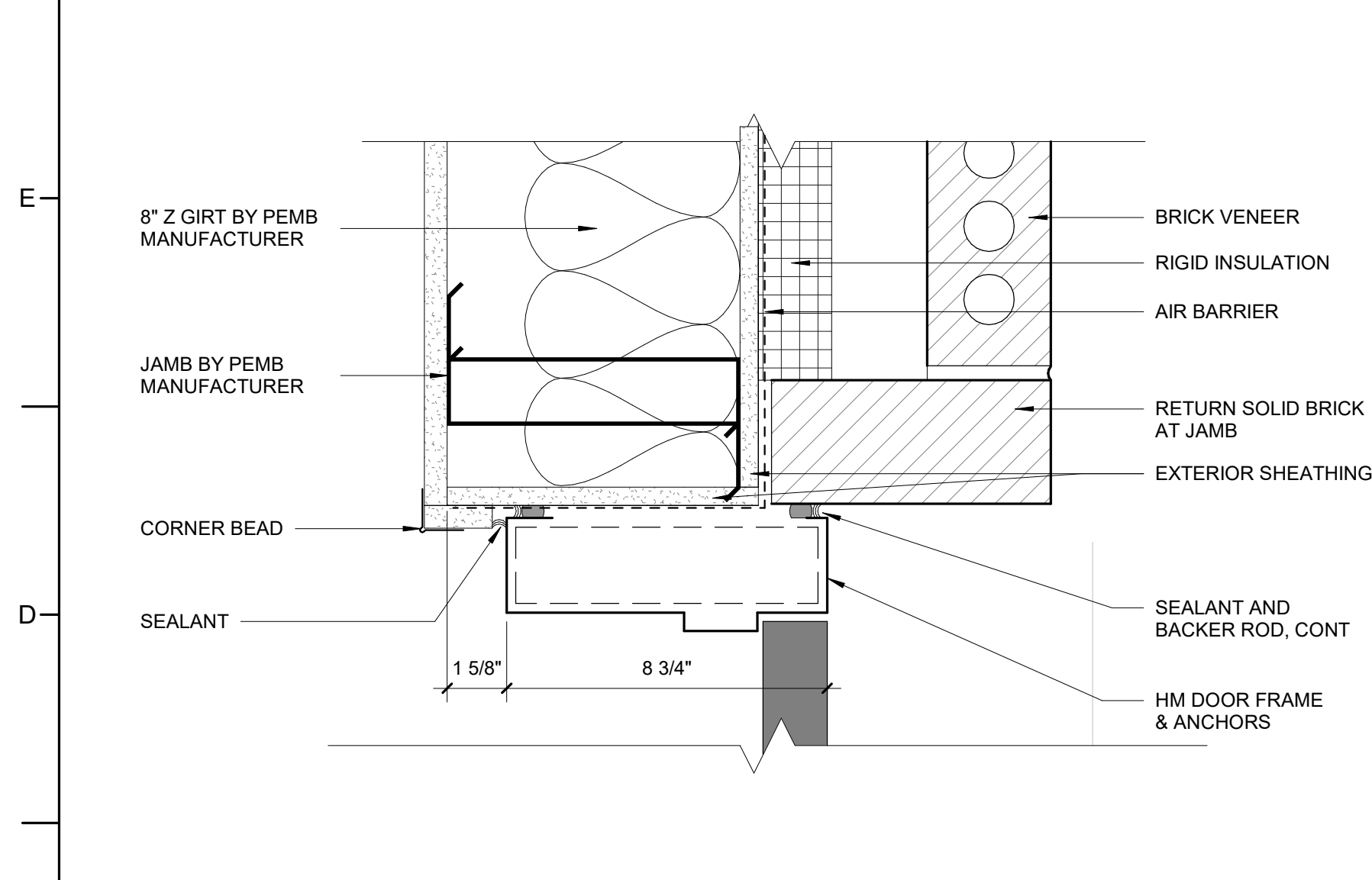
A6 SECTION DETAIL - LOUVER SILL @ CMU/METAL PANEL
3" = 1'-0"



A3 SECTION DETAIL - LOUVER SILL @ PEMB/METAL PANEL
3" = 1'-0"



F1 SECTION DETAIL - EXTERIOR HM HEAD @ PEMB/BRICK
3" = 1'-0"



C1 PLAN DETAIL - EXTERIOR HM JAMB @ PEMB/BRICK
3" = 1'-0"



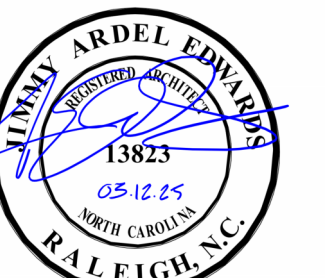
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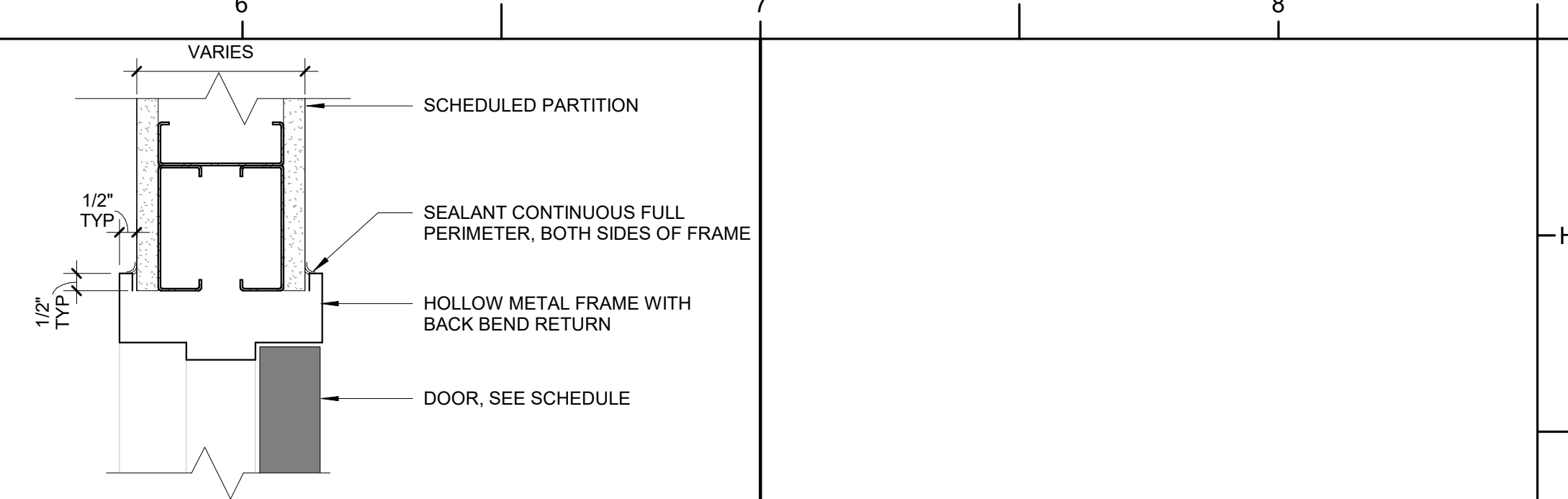
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Drawn By: BG
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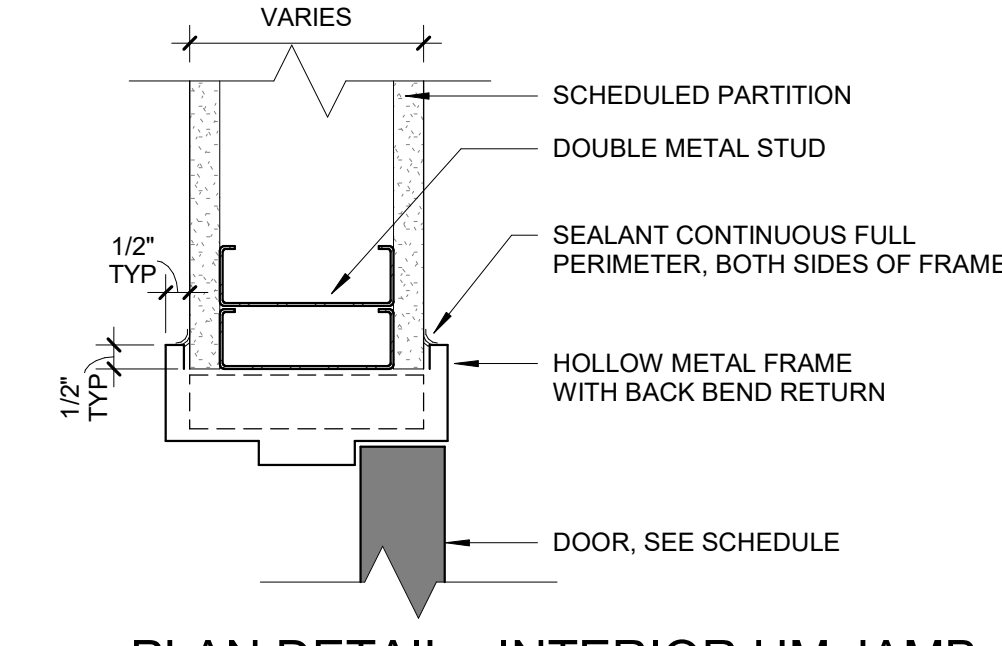
BID DOCUMENTS
03/12/2025

SHEET TITLE
FENESTRATION DETAILS

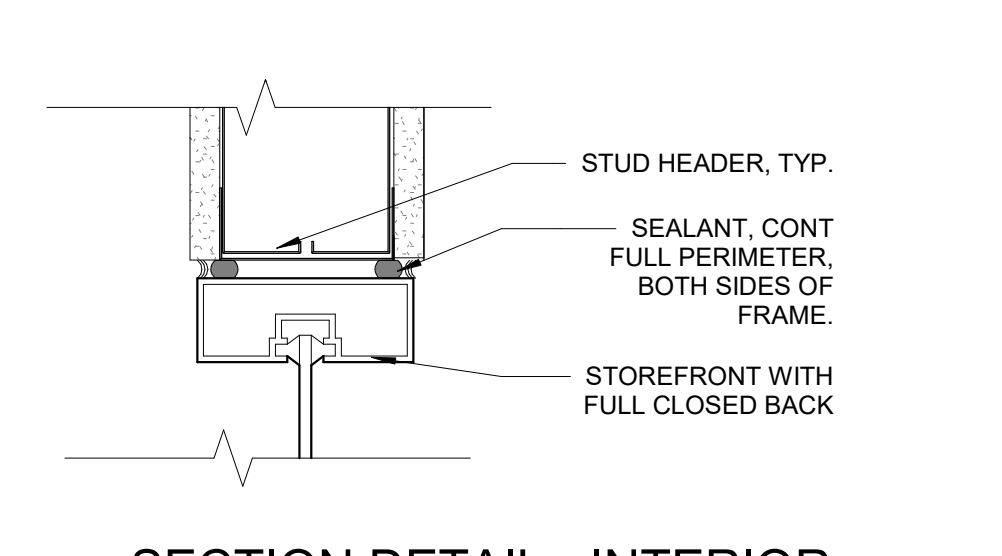
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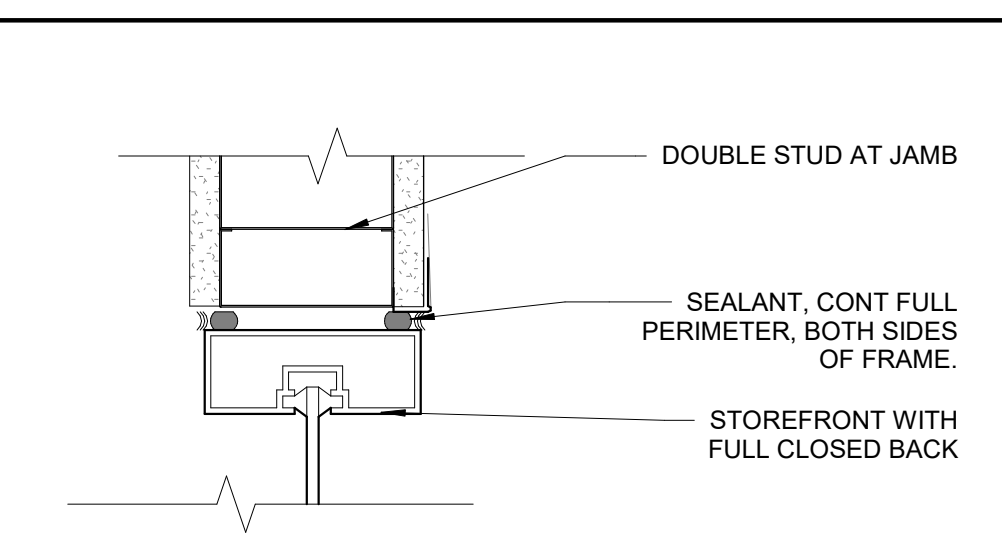
G6 SECTION DETAIL - HM INTERIOR HEAD IN STUD WALL
3" = 1'-0"



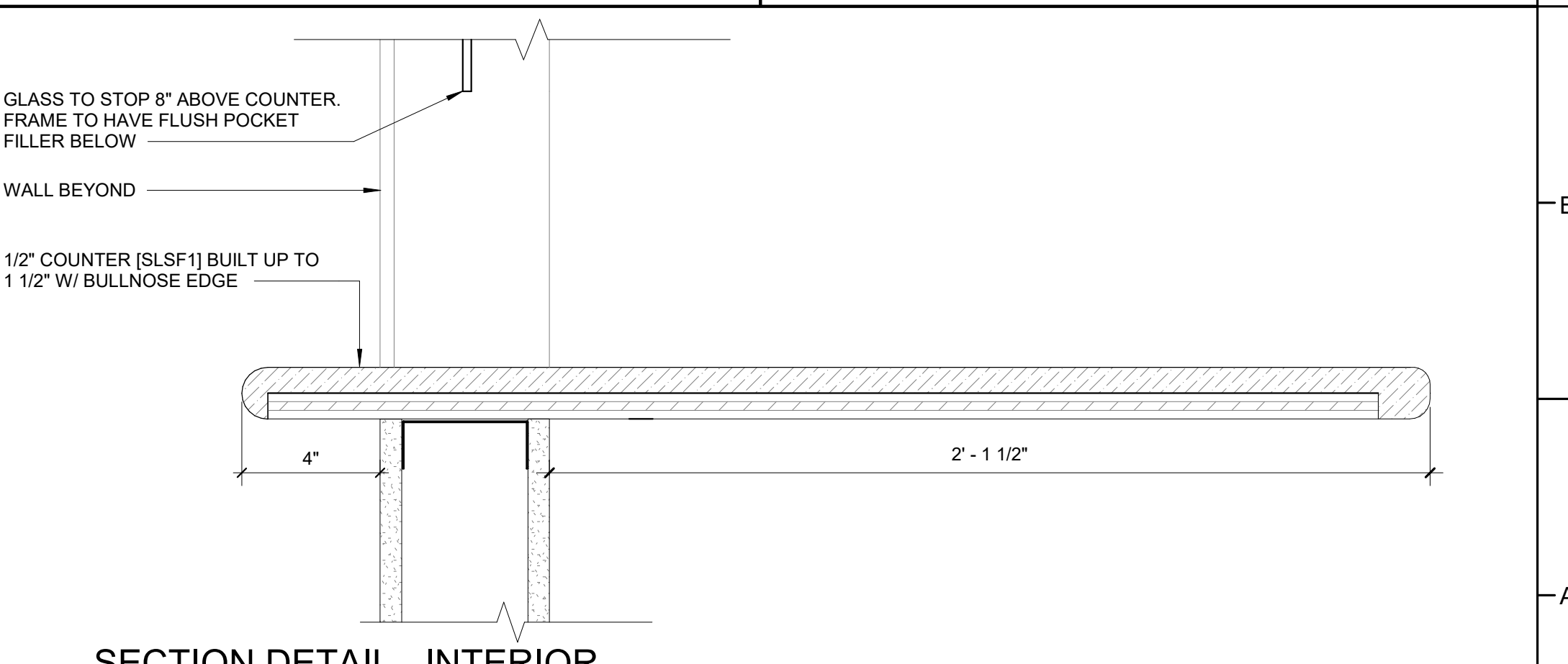
F6 PLAN DETAIL - INTERIOR HM JAMB IN STUD WALL
3" = 1'-0"



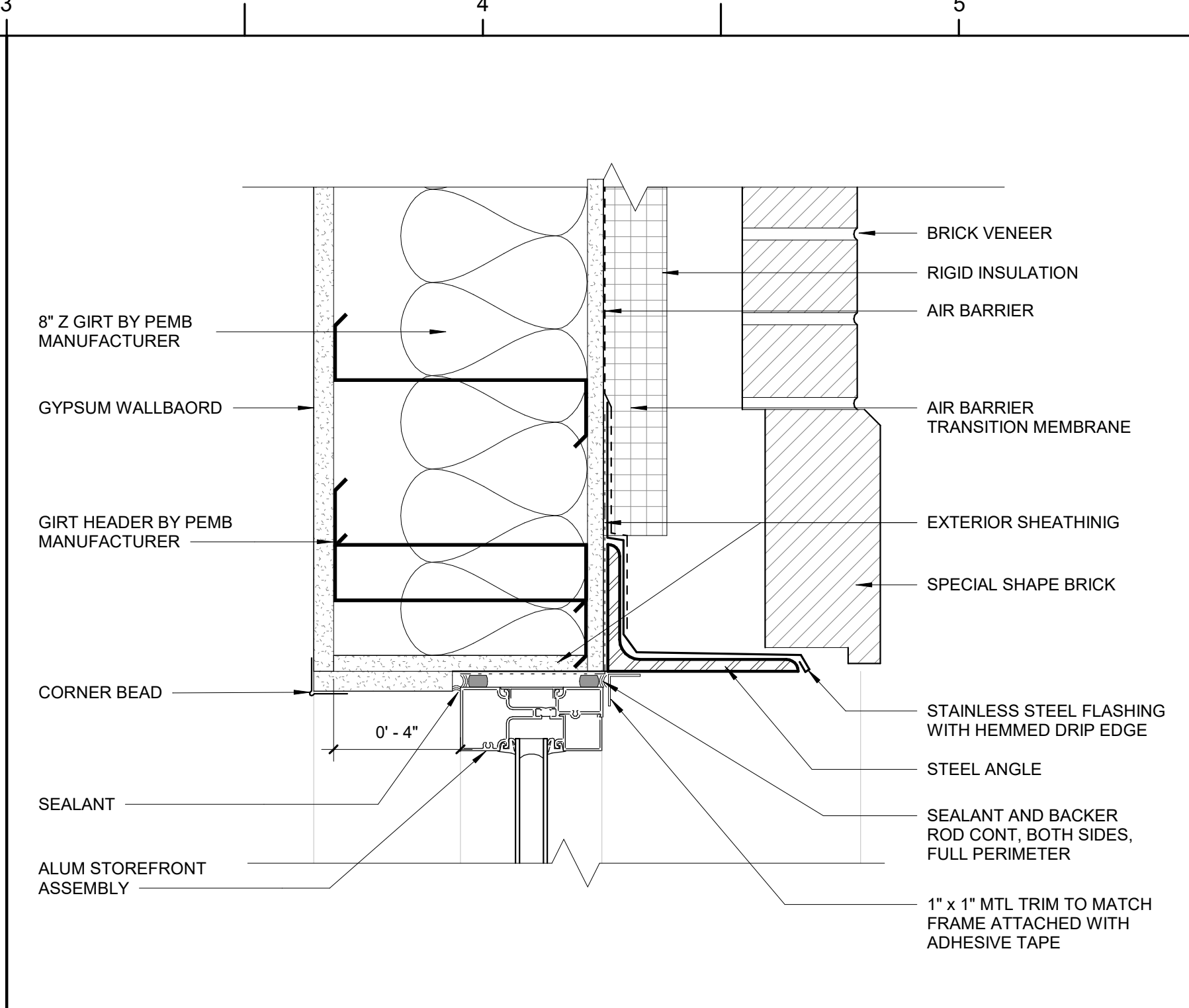
D6 SECTION DETAIL - INTERIOR STOREFRONT HEAD @ METAL FRAMING
3" = 1'-0"



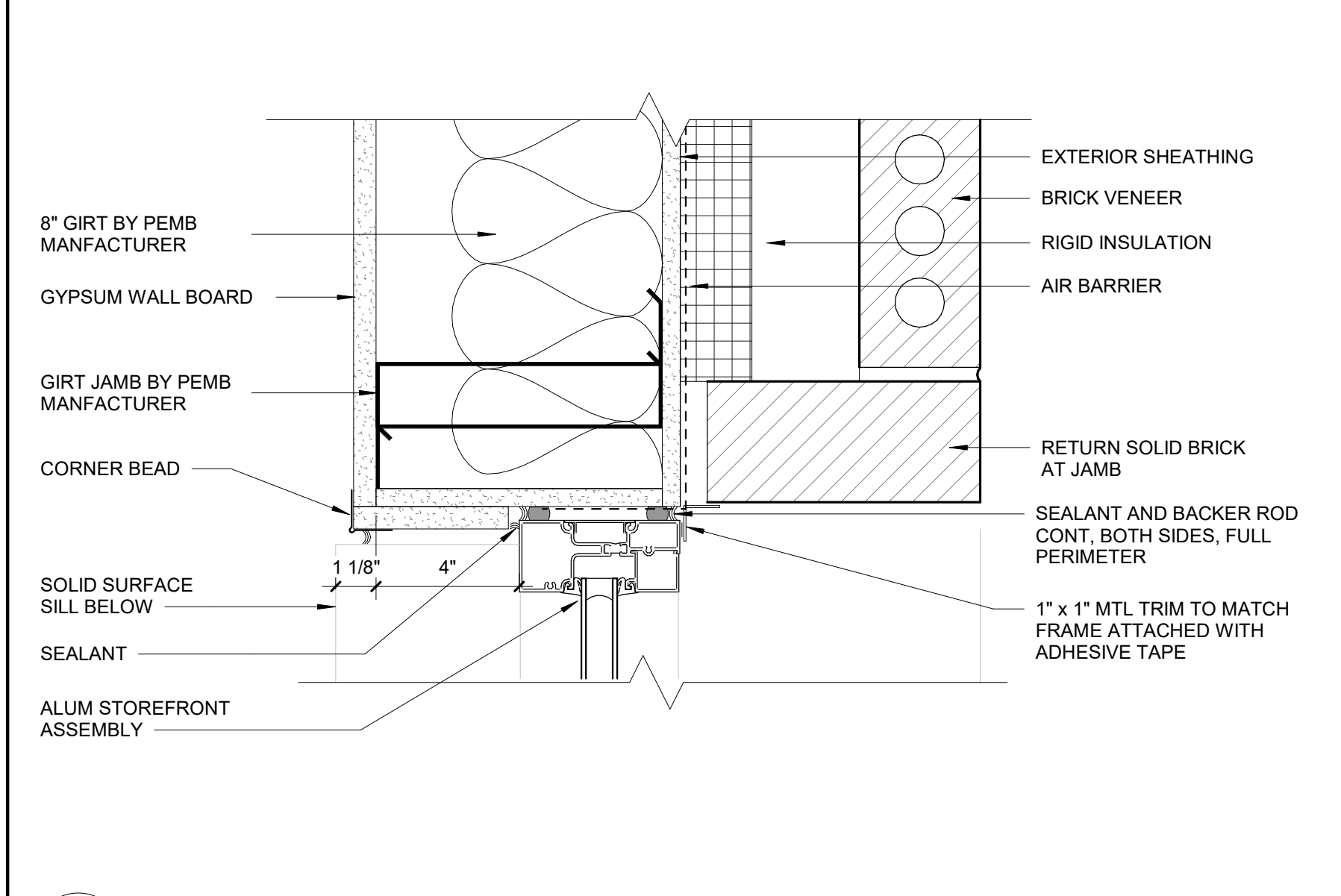
C6 PLAN DETAIL - INTERIOR STOREFRONT JAMB @ METAL FRAMING
3" = 1'-0"



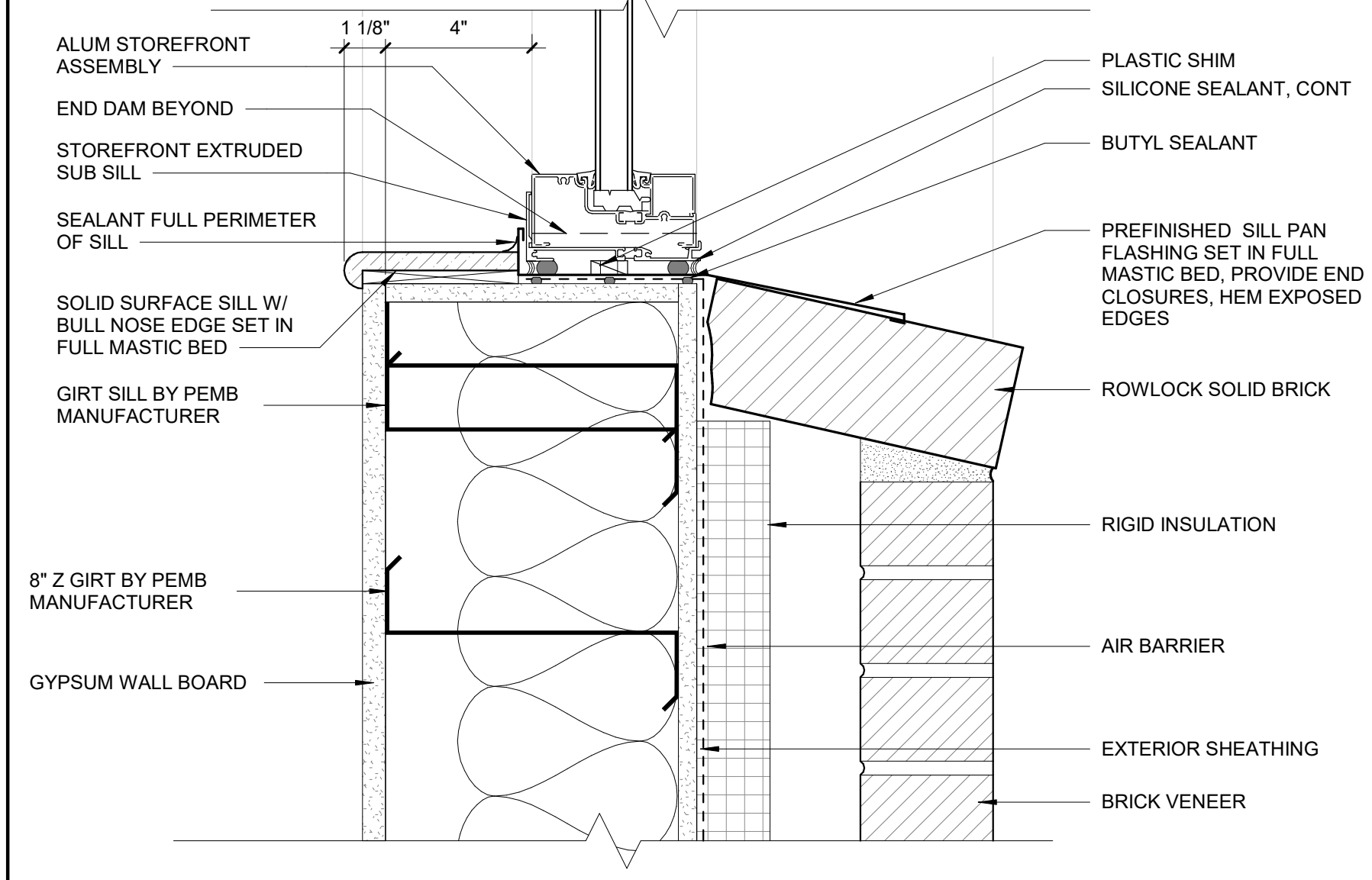
A6 SECTION DETAIL - INTERIOR STOREFRONT SILL @ COUNTER
3" = 1'-0"



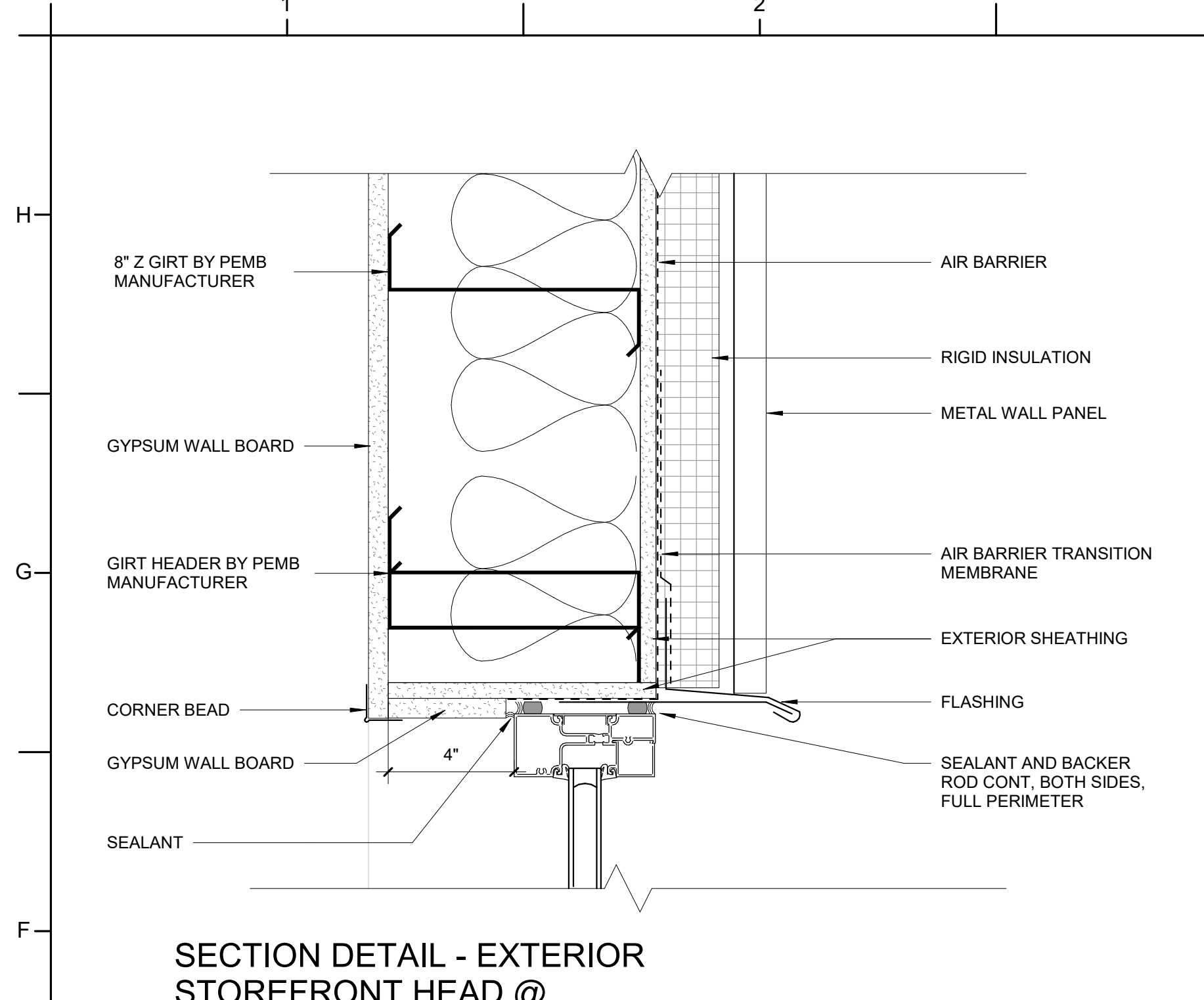
F3 SECTION DETAIL - EXTERIOR STOREFRONT HEAD @ PEMB/BRICK
3" = 1'-0"



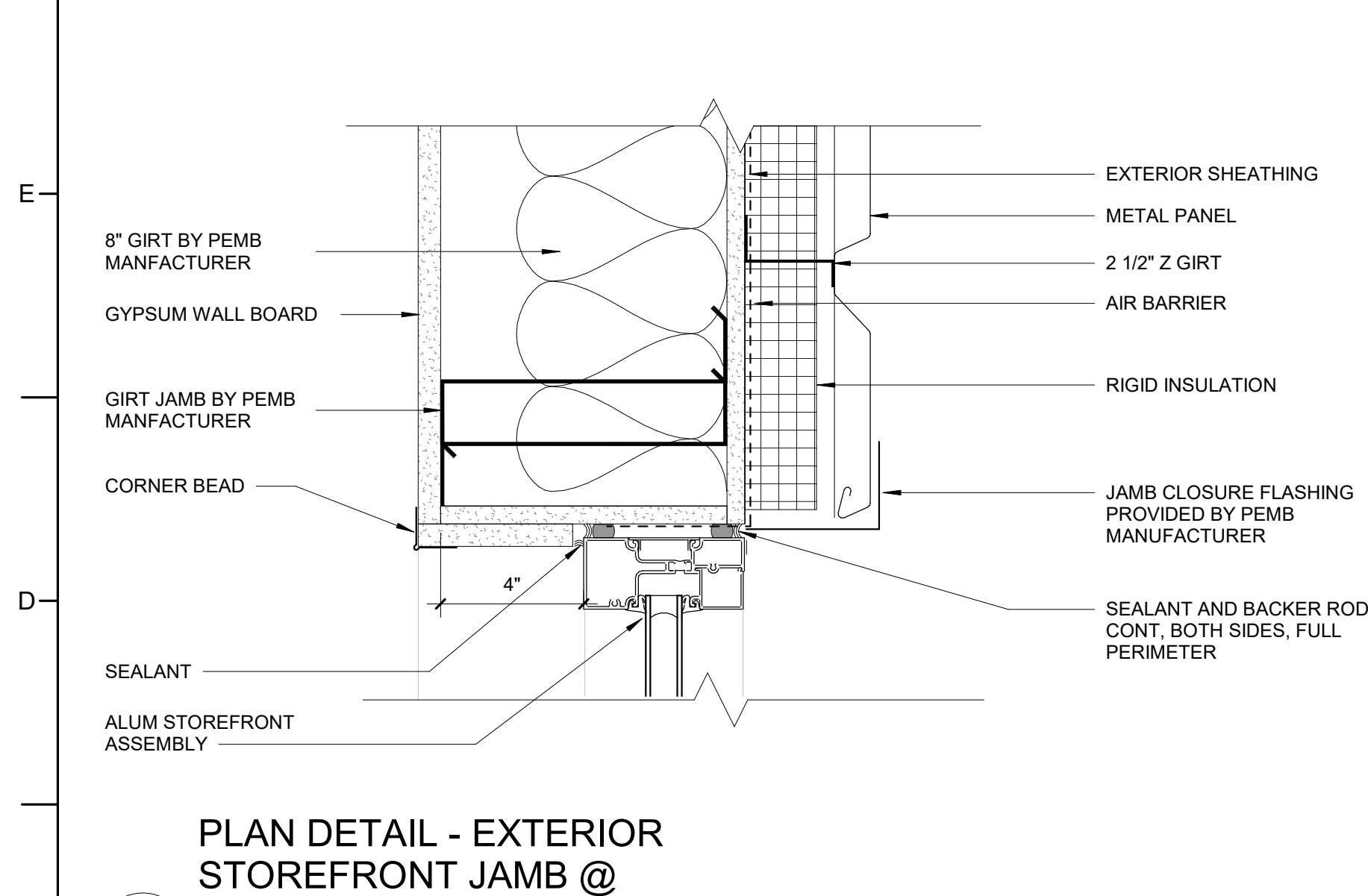
C3 PLAN DETAIL - EXTERIOR STOREFRONT JAMB @ PEMB/BRICK
3" = 1'-0"



A3 SECTION DETAIL - EXTERIOR STOREFRONT SILL @ PEMB/BRICK
3" = 1'-0"



F1 SECTION DETAIL - EXTERIOR STOREFRONT HEAD @ PEMB/METAL PANEL
3" = 1'-0"



C1 PLAN DETAIL - EXTERIOR STOREFRONT JAMB @ PEMB/METAL PANEL
3" = 1'-0"



A3 SECTION DETAIL - EXTERIOR STOREFRONT SILL @ PEMB/METAL PANEL
3" = 1'-0"



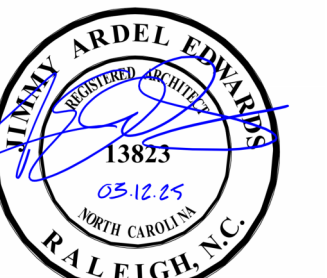
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PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID NO. 102-25C
138 OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS



DKA JOB NUMBER

2324

REVISIONS

NO.	DESCRIPTION

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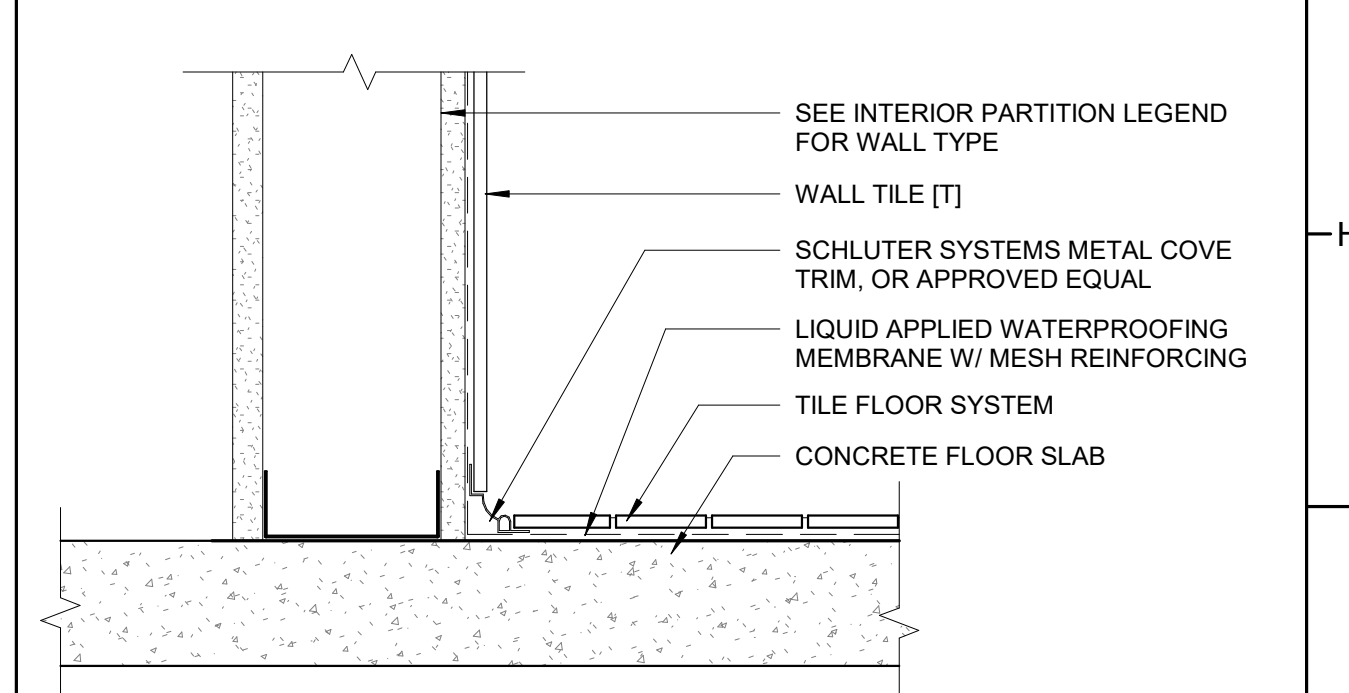
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03/12/2025

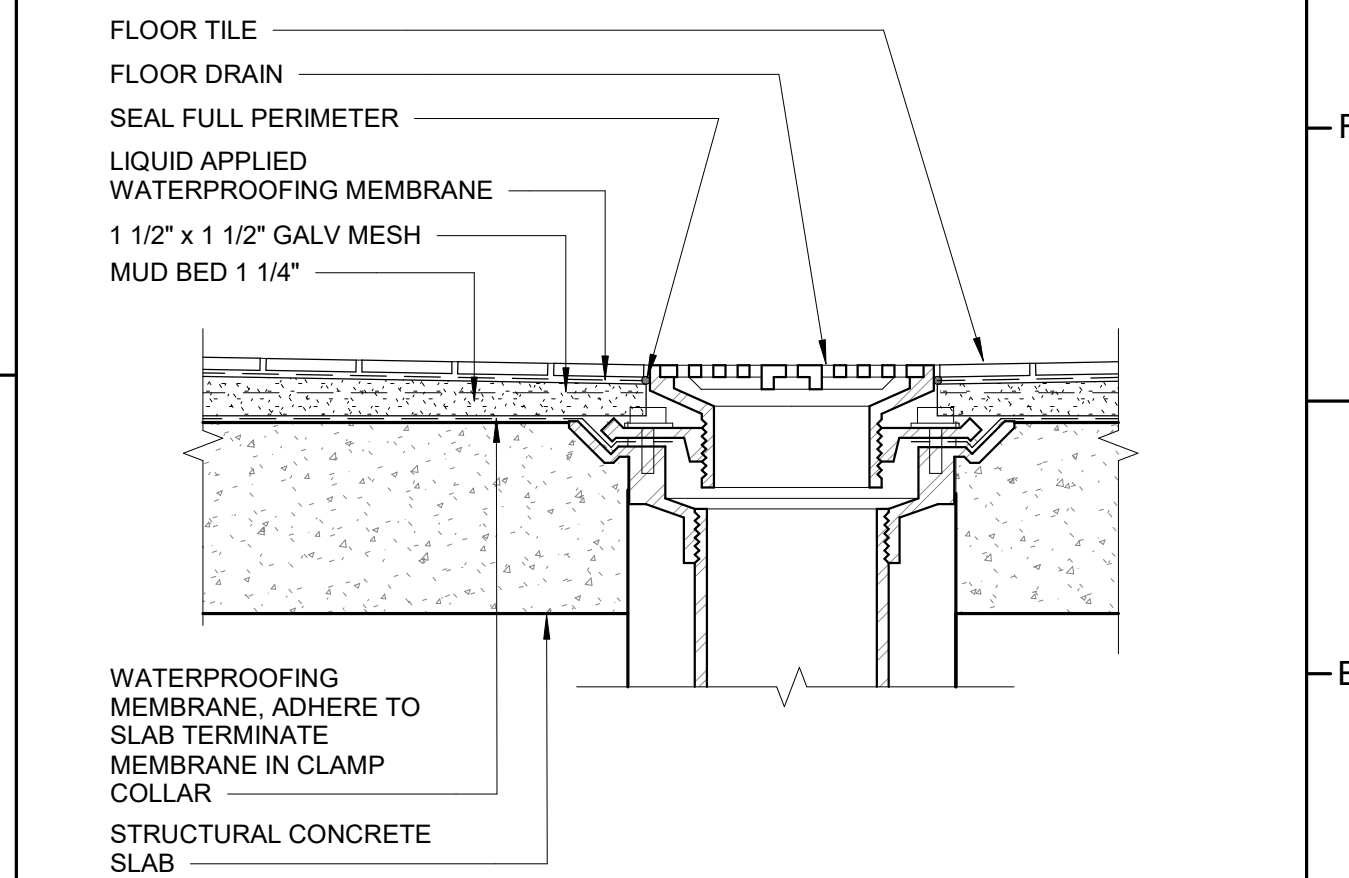
SHEET TITLE

FINISH SCHEDULES AND DETAILS

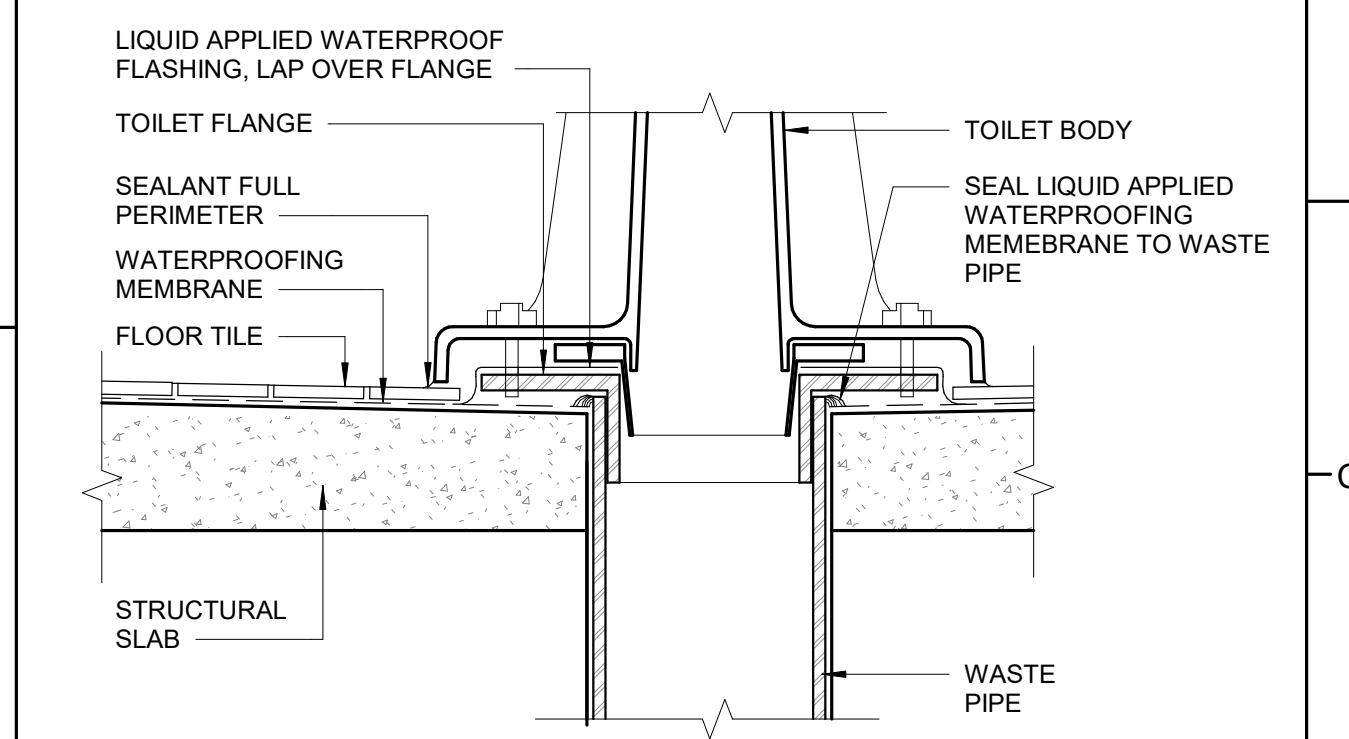
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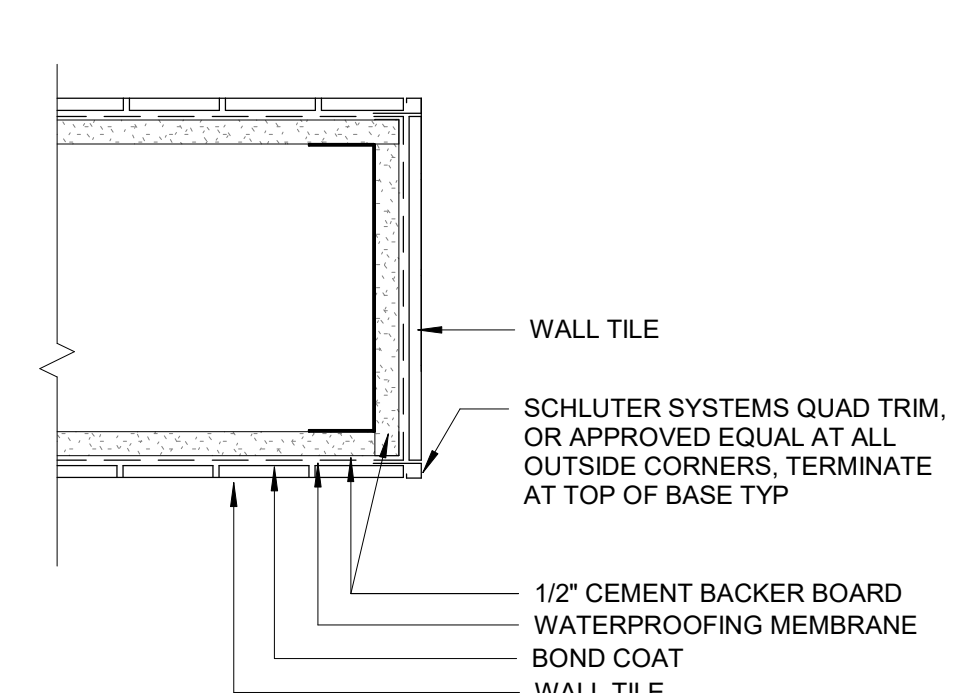
G7 TLT TILE BASE DETAIL WITH COVE TRIM
3" = 1'-0"



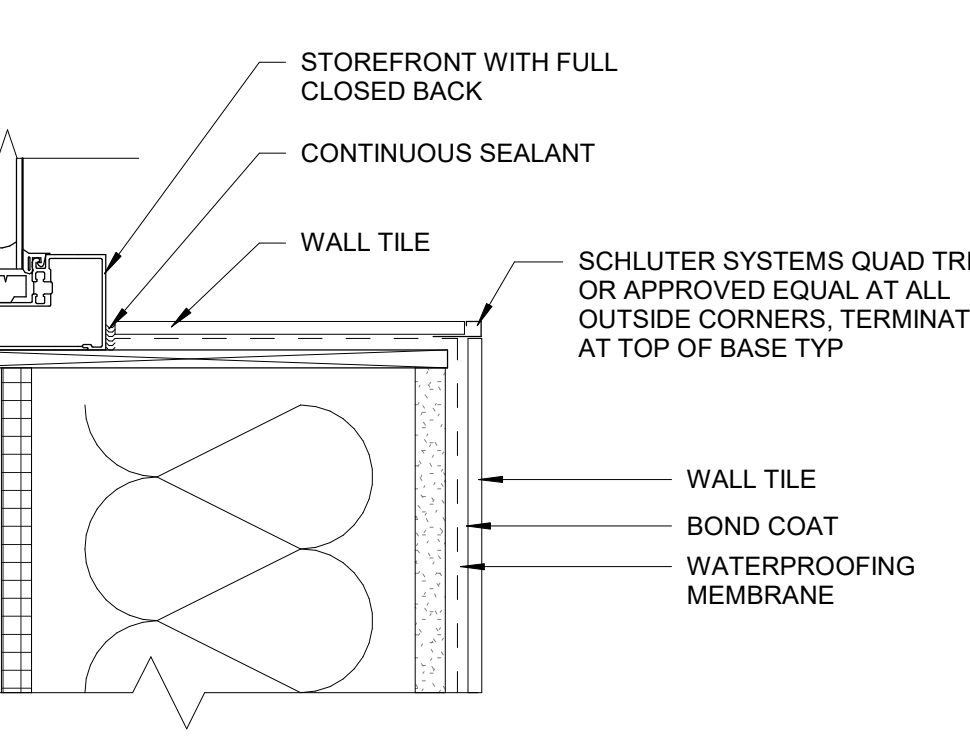
D7 TILE FLOOR SYSTEM 2
3" = 1'-0"



C7 TOILET FLANGE DETAIL AT THIN SET
3" = 1'-0"



G6 TILE WALL END CAP
3" = 1'-0"

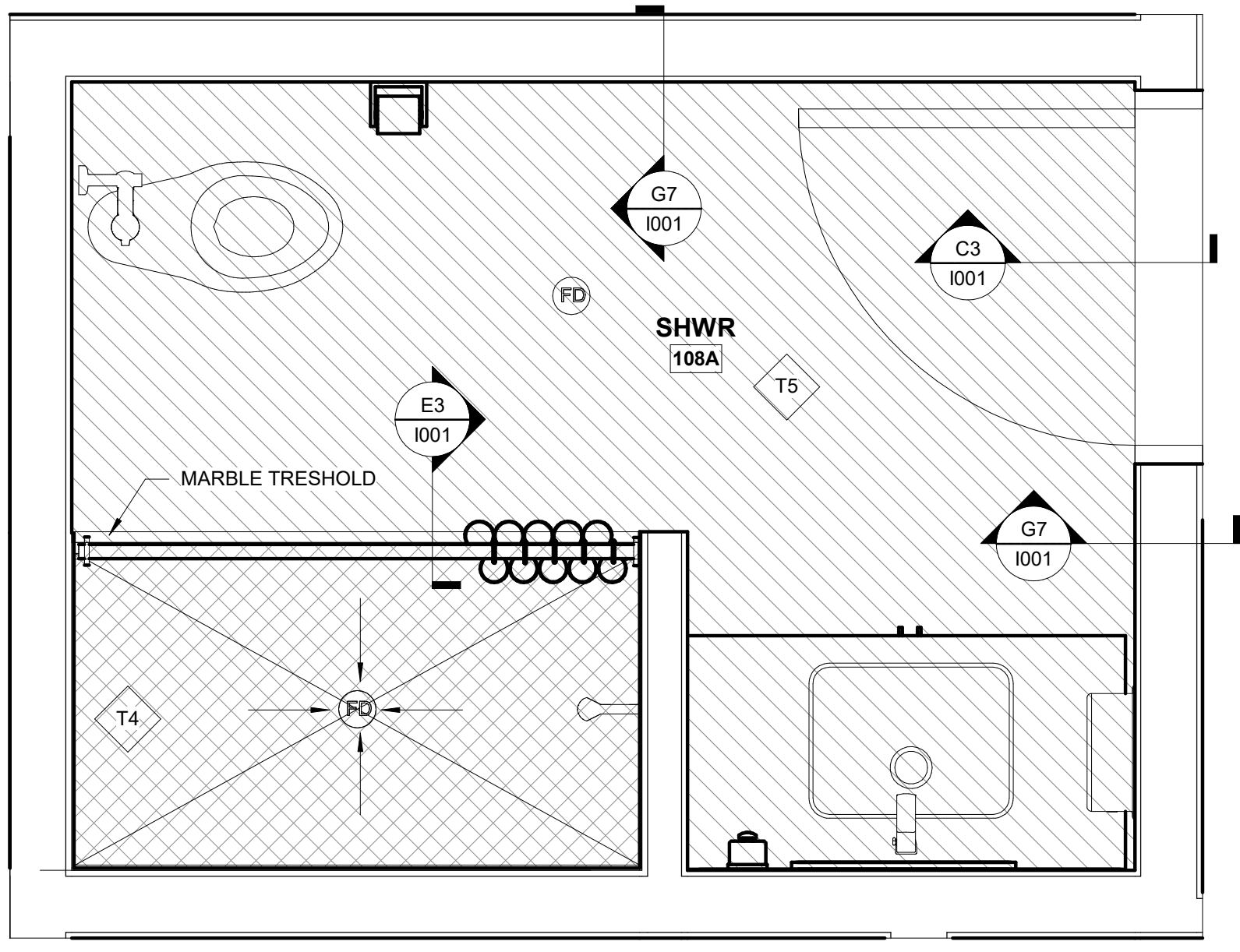


D5 SECTION DETAIL - KITCHEN TILE SILL
3" = 1'-0"

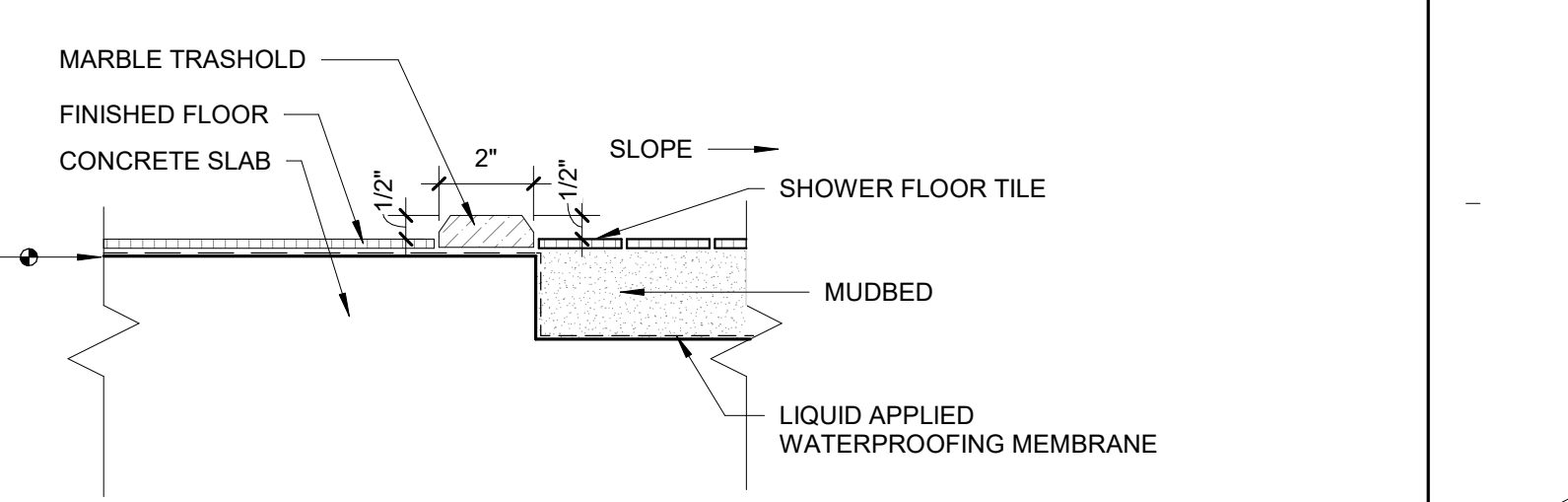
TILE FLOOR SYSTEM PLAN KEY:

- TILE FLOOR SYSTEM 1
- TILE FLOOR SYSTEM 2

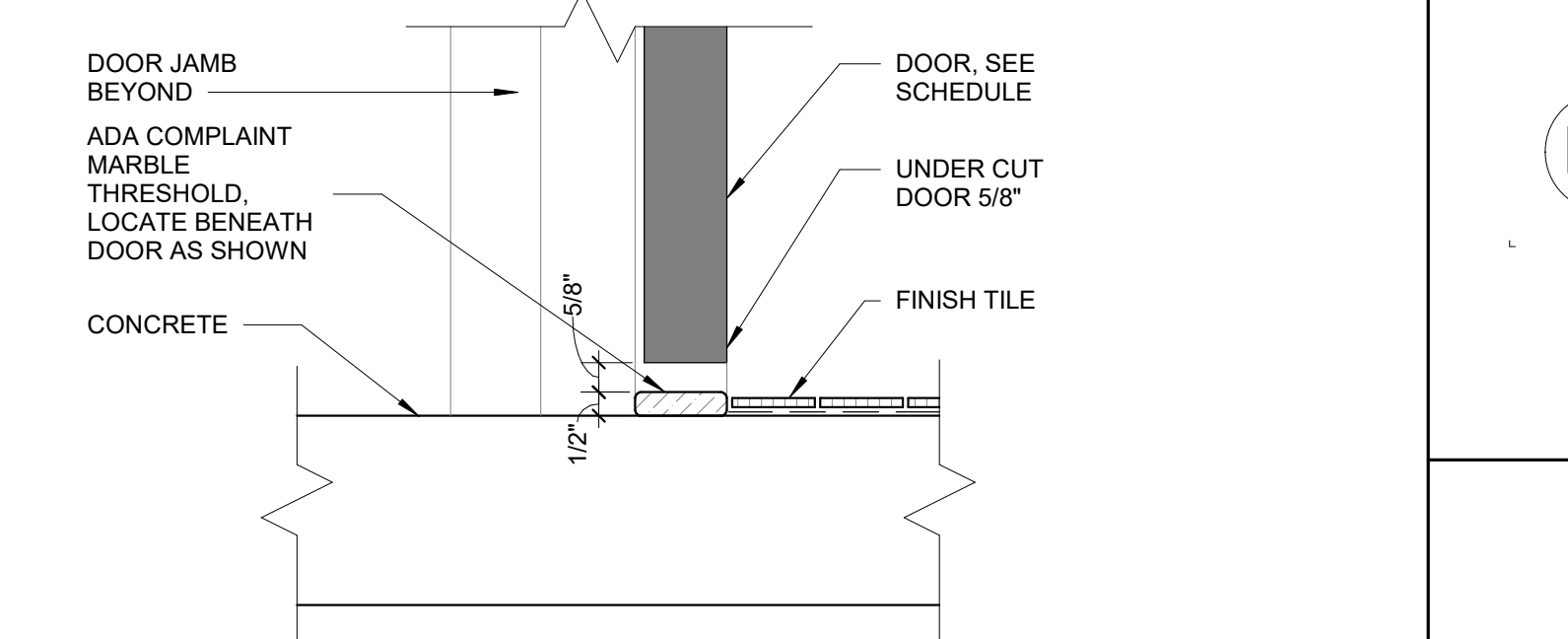
TYPE	DESIGNATION	BASIS OF DESIGN	MANUFACTURER	PATTERN/COLOR	NOTES
EPOXY FLOOR	EP1	SEE SPECIFICATION		GRAY	
EPOXY FLOOR	EP2	SEE SPECIFICATION		RED	
PAINT	PNT1	SHERWIN-WILLIAMS	SW 7064		LIGHT GRAY
PAINT	PNT2	SHERWIN-WILLIAMS	SW 9163		DARK GRAY
QUARTZ	QTZ1	LX HOUSYS AMERICA	VIATERA NIMBUS		
QUARRY TILE	QT	DALTILE	6X6 ASHEN GRAY		
RUBBER BASE	RB1	FLEXICO	DARK GRAY		
SOLID SURFACE	SLSF1	WILSONART	NORTHERN MELNGE 9195ML		
SOLID SURFACE	SLSF2	WILSONART	DUSK ICE		WINDOW SILL
STAINED WOOD	WD1	SEE SPECIFICATION	MAPLE		
TILE	T1	DALTILE	COLOR WHEEL LINEAR 4X12 SUEDE GRAY 0182 GLOSSY	GRAY	
TILE	T2	DALTILE	COLOR WHEEL LINEAR 4X12 CURRANT SH17 (3) GLOSSY	RED	
TILE	T3	DALTILE	COLOR WHEEL LINEAR 4X12 ALMOND X114 (1) GLOSSY	WHITE	
TILE	T4	CROSSVILLE	COLOR BOX 2.01 SEE THE MOON 3X3		SHOWER FLOOR MOSAIC 3X3
TILE	T5	CROSSVILLE	COLOR BOX 2.01 SEE THE MOON 12X12		TLT FLOOR
TILE BASE	TB1	DEL TILE	COLOR WHEEL LINEAR 4X12 DESERT GRAY X114 (1) GLOSSY	A34CIMOD 4X12	
VINYL FLOORING	LVT1	MILLIKEN	THE MAGIC HOUR HORIZON HZN176-121 ETHERAL		



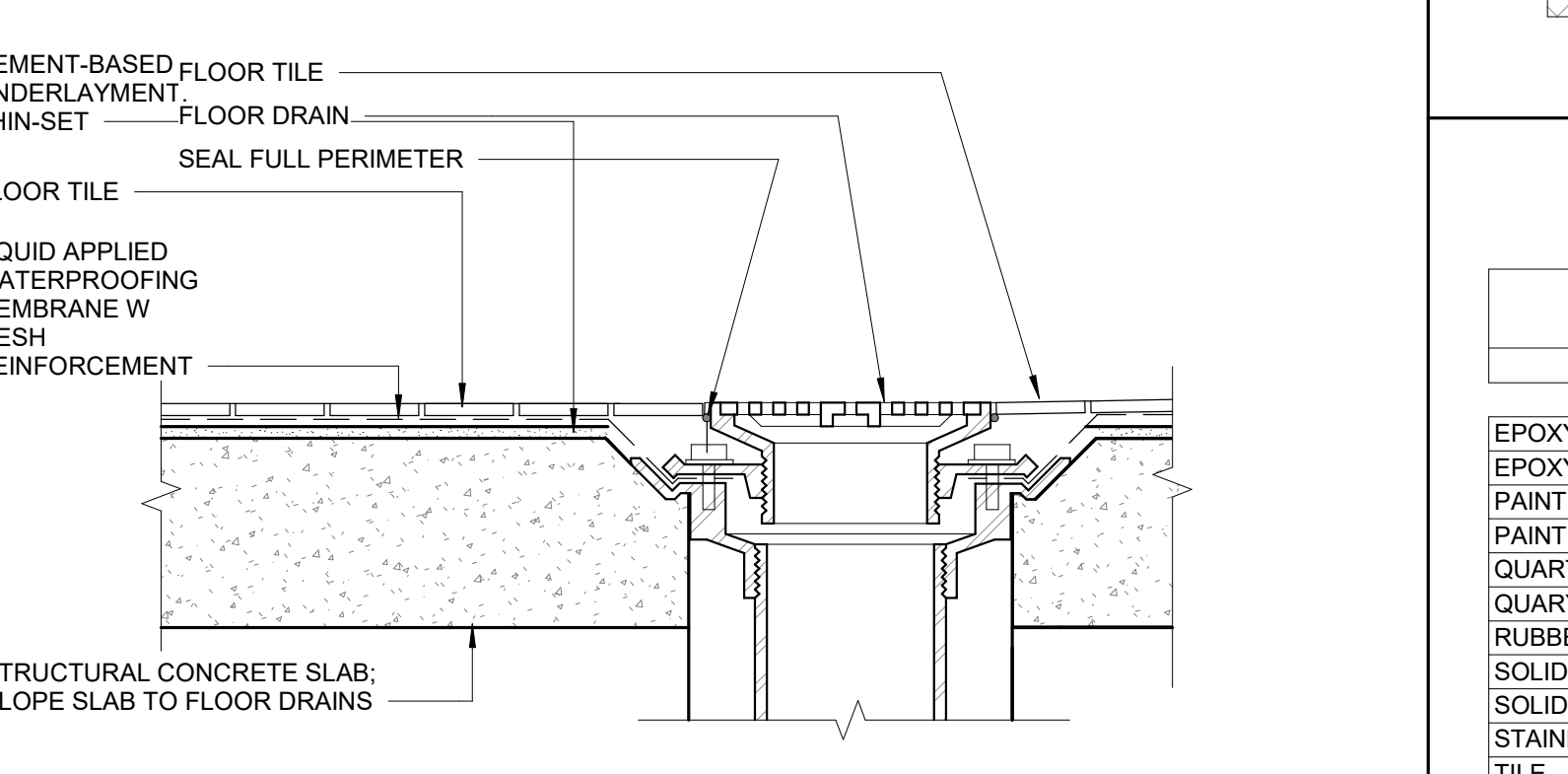
F3 FIRST FLOOR - TILE SYSTEM PLAN SHWR 108A
3/4" = 1'-0"



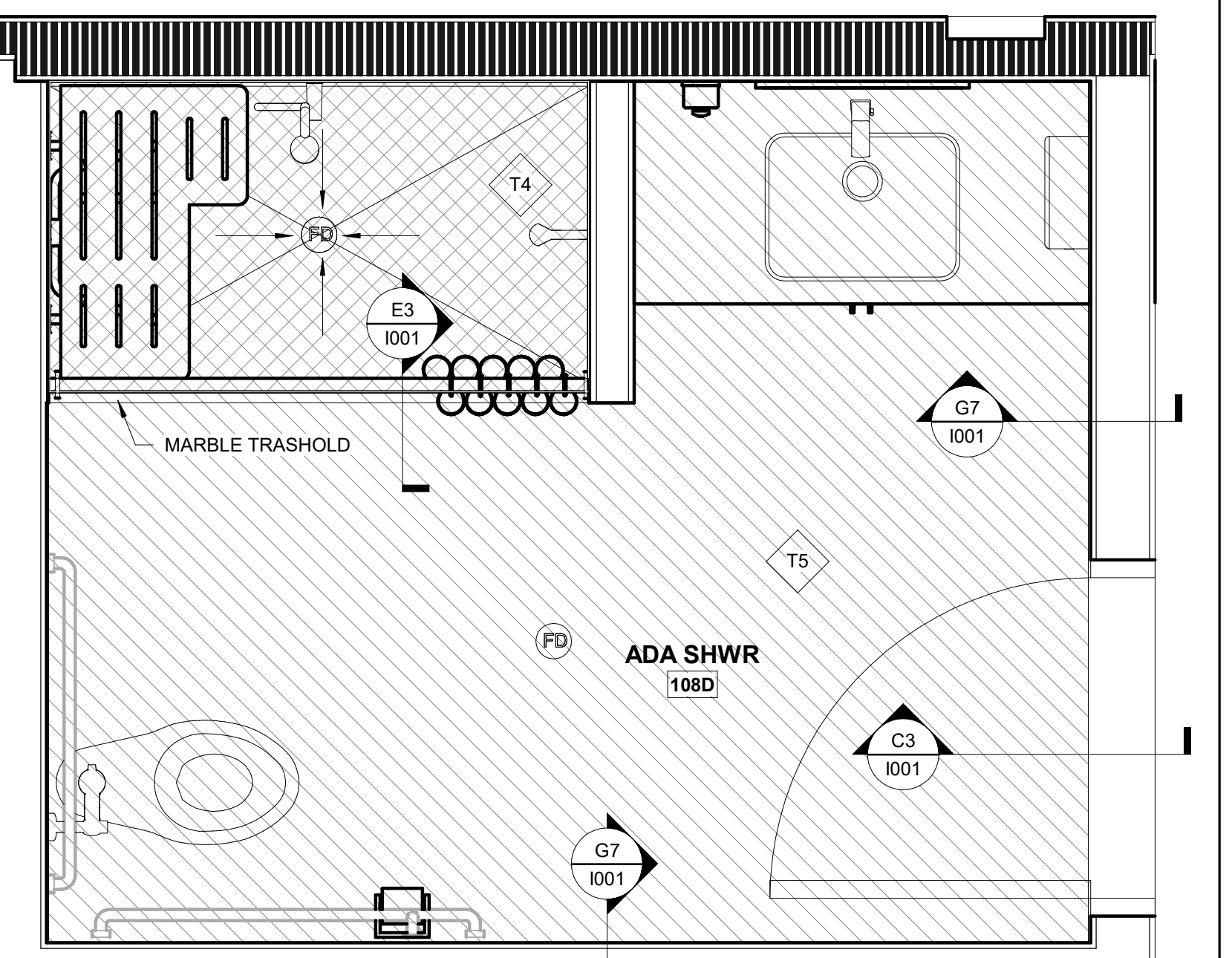
E3 MARBLE THRESHOLD AT RECESSED SLAB
3" = 1'-0"



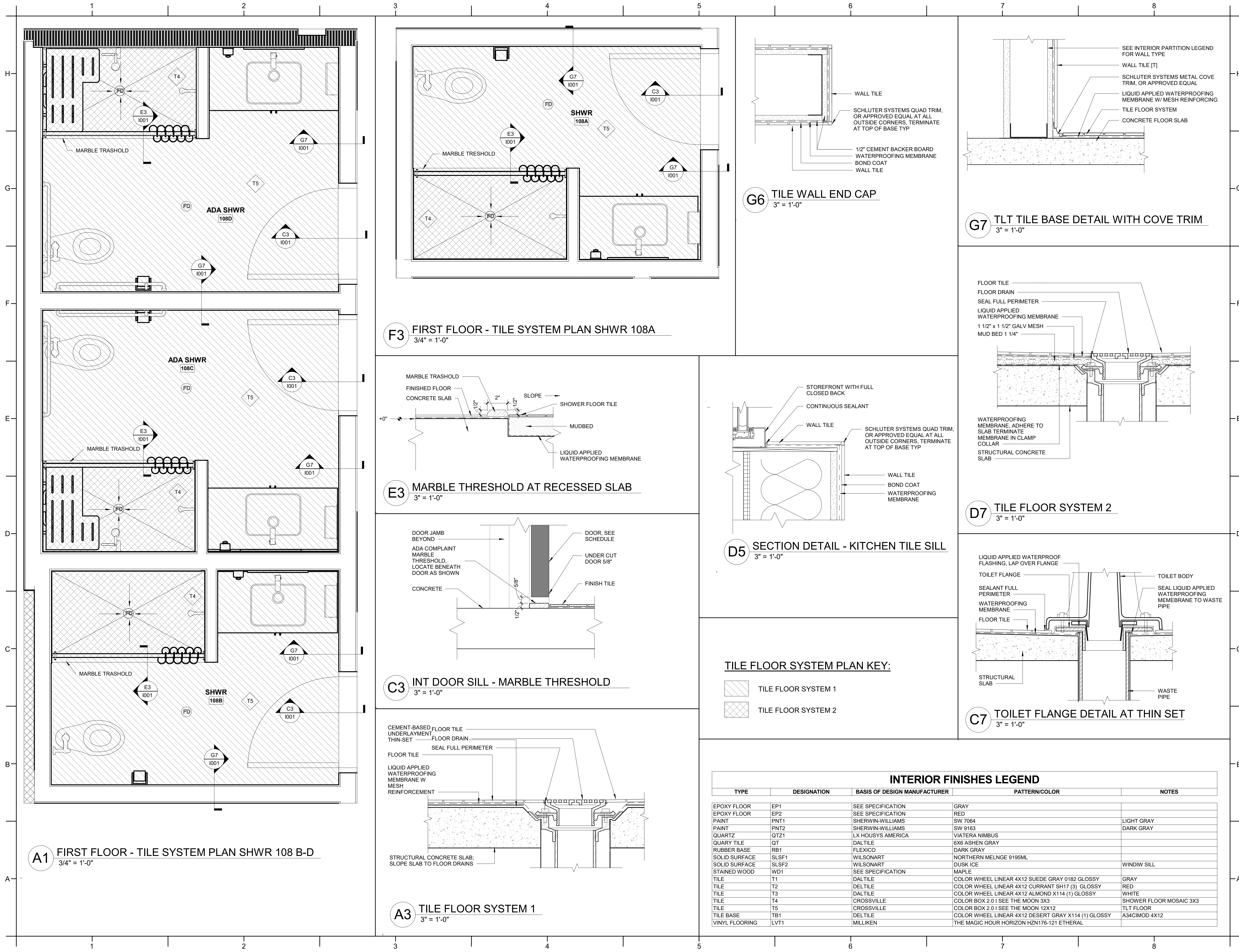
C3 INT DOOR SILL - MARBLE THRESHOLD
3" = 1'-0"



A3 TILE FLOOR SYSTEM 1
3" = 1'-0"



A1 FIRST FLOOR - TILE SYSTEM PLAN SHWR 108 B-D
3/4" = 1'-0"





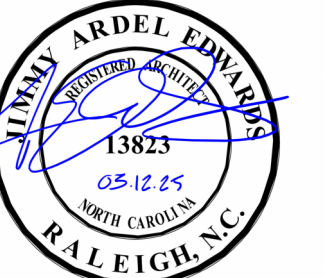
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BID DOCUMENTS
03/12/2025

SHEET TITLE

FIRST FLOOR FINISH PLAN
1100

FINISHES GENERAL NOTES:

- SEE FLOOR PLANS FOR WALL TYPES.
- SEE INTERIOR ELEVATIONS AND DETAILS FOR LOCATION OF CASEWORK AND WALL FINISH SELECTIONS NOT SHOWN ON PLAN.
- WHERE PAINT IS INDICATED ON LEGEND, PROVIDE THE FOLLOWING:
FINISH LOCATION
EGGSHELL GWB WALLS, UON
SEMI-GLOSS MASONRY WALLS, UON
SEMI-GLOSS INTERIOR FRAMES
SATIN GLOSS RAILINGS
- PAINT COLORS PROVIDED IN FINISHES LEGEND ARE FOR COLOR MATCH ONLY.
- INTERIOR FINISHES INDICATED BY AREA UON.
- INTERIOR FINISH ACCENTS INDICATED AT LOCATION BY SYMBOL, WITH LEADER DESIGNATION.
- FOR CEILING FINISH AND COLORS REFER TO REFLECTED CEILING PLANS.
- FOR INFORMATION ABOUT THRESHOLDS SEE DOOR SCHEDULE.
- PAINT ALL STAIR STRINGERS, GUARDRAILS, HANDRAILS, BRACKETS AND UNDERSIDE OF STAIRS THROUGHOUT ALL THREE STAIRS.
- ALL WALLS TO BE PTN1 UON.

FINISHES PLAN KEY:

- LUXURY VINYL TILE [LVT]
- MOSAIC TILE
- TILE
- QUARRY TILE
- S. CONC SEALED CONCRETE WITH GRIT
- EPOXY RESINOUS FLOORING [EP]
- FLOORING
- WALL
- BASE

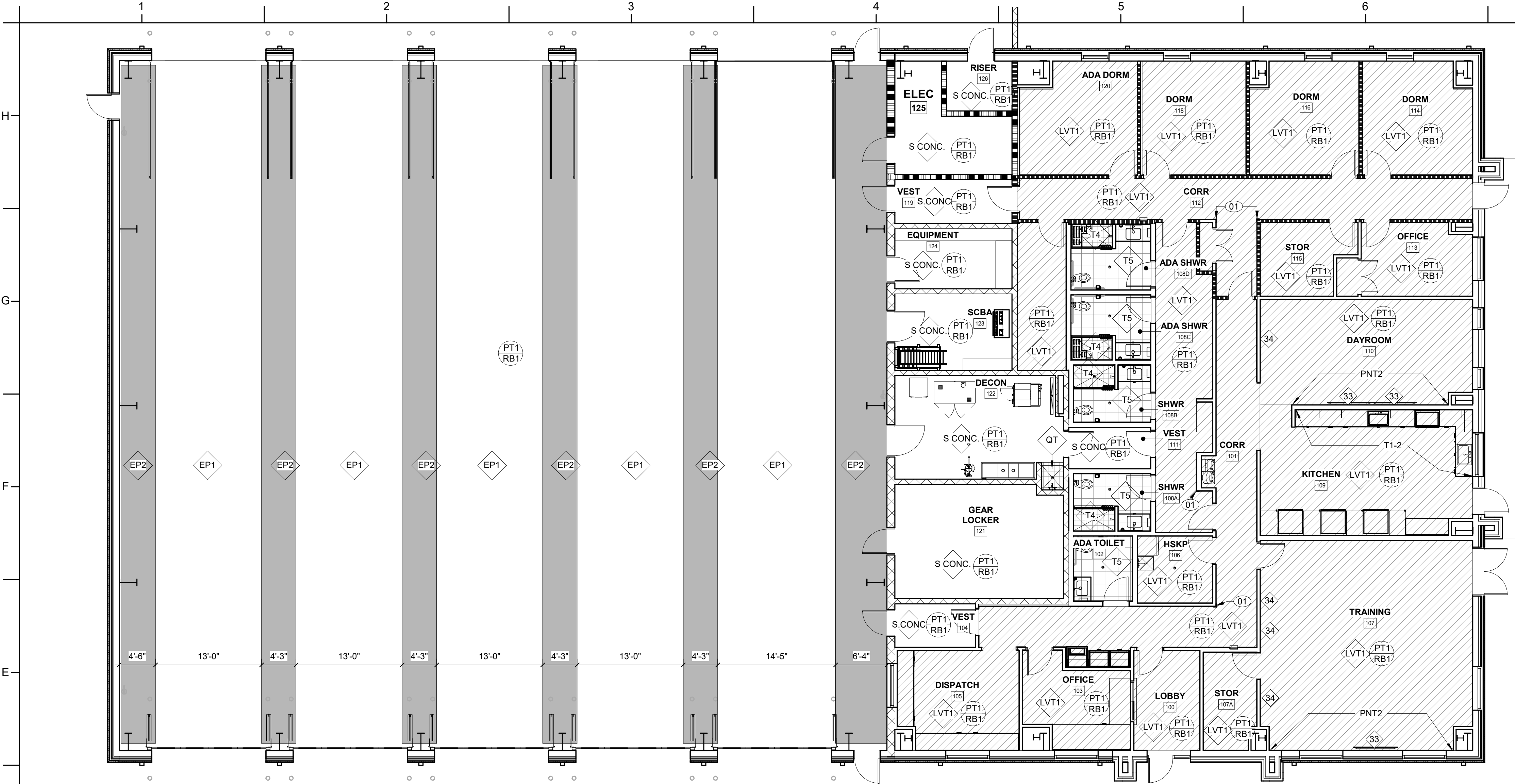
FINISHES PLAN NOTES:

- SEE A001 FOR GENERAL PLAN & PARTITION NOTES.
- REFER TO A002 FOR PARTITION CONSTRUCTION TYPE.
- TYPICAL ASSEMBLY & MOUNTING HEIGHTS SEE SHEET A001.
- SEE I001 FOR INTERIOR FINISHES LEGEND, SCHEDULES AND ADDITIONAL FINISHES REQUIREMENTS.

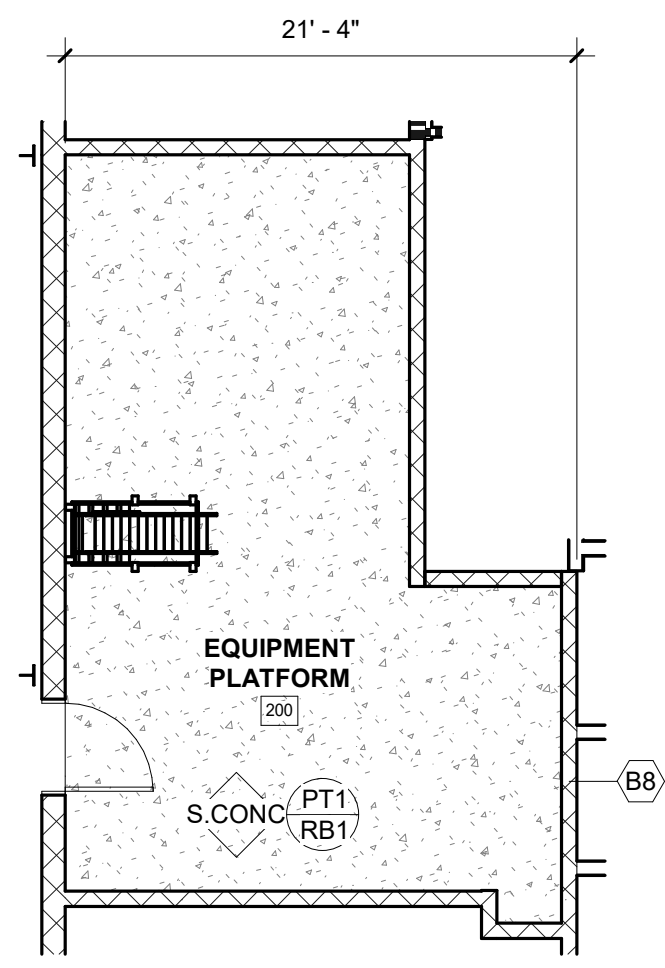
FINISHES KEY NOTES:

NOTE: NOT ALL OF THE KEY NOTES ARE APPLICABLE TO THIS PLAN. SEE PLAN FOR KEYED ITEM LOCATIONS. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS.

- 01 SINGULAR CORNER GUARDS
- 02 SCHLUTER
- 03 WINDOW SILL



D1 FIRST FLOOR - FINISH PLAN
1/8" = 1'-0"



A1 FINISHES FLOOR PLAN - EQUIPMENT PLATFORM
1/8" = 1'-0"

GENERAL NOTES:

- THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR MUST VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.
- THE WORK OUTLINED IN THE BUILDING CODE IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN THE BUILDING CODE.
- THE CONTRACTOR MUST PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.
- DISCREPANCIES WITHIN DRAWINGS, BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, OR WITHIN THE SPECIFICATIONS, MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER DURING THE BIDDING PROCESS IN TIME TO PERMIT CLARIFICATION BY ADDENDUM. IF INCONSISTENCIES, DISCREPANCIES OR CONTRADICTIONS IN THE CONTRACT DOCUMENTS ARE DISCOVERED AFTER THE CLOSE OF BIDDING QUESTIONS, THE CONTRACTOR MUST BE DEEMED BY SUBMITTAL OF THEIR BID, TO HAVE BID THE MOST COSTLY AS TO LABOR, MATERIALS, DURATION, SEQUENCE AND METHOD OF CONSTRUCTION TO PROVIDE THE WORK.
- THESE STRUCTURAL DRAWINGS ARE ISSUED ON THE DATE INDICATED FOR THE PURPOSE DESIGNATED. THESE DRAWINGS MUST NOT BE ISSUED OR RELEASED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AUTHORIZATION OF THE STRUCTURAL ENGINEER OF RECORD.
- DETAILS LABELED "TYPICAL DETAIL" WITHIN THE DOCUMENTS APPLY TO SITUATIONS ON THE PROJECT THAT MAY OCCUR THROUGHOUT THE PROJECT. SUCH DETAILS APPLY WHETHER OR NOT THE DETAIL IS SPECIFICALLY REFERENCED AT EACH INSTANCE. NOTIFY ENGINEER IF CLARIFICATIONS ARE REQUIRED REGARDING THE APPLICABILITY OF THE "TYPICAL DETAIL".
- DESIGN CRITERIA:

CLASSIFICATION OF BUILDING RISK CATEGORY IV

SUPERIMPOSED ROOF DEAD LOADS - UNIFORM:

1 1/2" INSULATION AND ROOF MEMBRANE	3 PSF
CEILING	2 PSF
SPRINKLERS	3 PSF
DUCTS, LIGHTS, MISC. MECHANICAL	3 PSF

SUPERIMPOSED FLOOR DEAD LOADS - UNIFORM:

FLOOR FINISH	3 PSF
CEILING	2 PSF
SPRINKLERS	3 PSF
DUCTS, LIGHTS, MISC. MECHANICAL	3 PSF
COLLATERAL	2 PSF

LIVE LOADS - UNIFORM:

SLAB ON GRADE (APPARATUS BAY)	500 PSF
SLAB ON GRADE(UON)	100 PSF
EQUIPMENT PLATFORM	150 PSF
ROOF	20 PSF

LIVE LOAD REDUCTION OF THE UNIFORMLY DISTRIBUTED FLOOR LIVE LOADS HAS BEEN UTILIZED.

LIVE LOADS - CONCENTRATED:

FLOOR	2,000#
ROOFS	300#

UNLESS OTHERWISE NOTED, CONCENTRATED LOADS ARE APPLIED UNIFORMLY OVER 2'-6" x 2'-6" AREA.

SNOW LOADS:

GROUND SNOW LOAD (Pg)	10 PSF
SLOPED ROOF LOAD (Pf)	6 PSF
IMPORTANCE FACTOR (Is)	1.2
THERMAL FACTOR (Ct)	1.0
EXPOSURE FACTOR (Ce)	1.0

WIND LOADS:

BASIC WIND SPEED (Vult)	150 MPH
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	±0.18

COMPONENT AND CLADDING PRESSURES:

WALLS, ZONE 4 (10 SF)	44 PSF
WALLS, ZONE 4 (20 SF)	42 PSF
WALLS, ZONE 4 (50 SF)	40 PSF
WALLS, ZONE 4 (100 SF)	38 PSF
WALLS, ZONE 5 (10 SF)	54 PSF
WALLS, ZONE 5 (20 SF)	51 PSF
WALLS, ZONE 5 (50 SF)	46 PSF
WALLS, ZONE 5 (100 SF)	42 PSF
ROOF, ZONE 1 (10 SF)	37 PSF
ROOF, ZONE 1 (10 SF)	36 PSF
ROOF, ZONE 1 (50 SF)	35 PSF
ROOF, ZONE 1 (100 SF)	35 PSF
ROOF, ZONE 2 (10 SF)	65 PSF
ROOF, ZONE 2 (20 SF)	60 PSF
ROOF, ZONE 2 (50 SF)	53 PSF
ROOF, ZONE 2 (100 SF)	48 PSF
ROOF, ZONE 3 (10 SF)	96 PSF
ROOF, ZONE 3 (20 SF)	89 PSF
ROOF, ZONE 3 (50 SF)	81 PSF
ROOF, ZONE 3 (100 SF)	75 PSF

ULTIMATE WIND BASE SHEARS (FOR MWFRS):

Vx	120 KIPS
Vy	135 KIPS

GENERAL NOTES (CONT):

SEISMIC LOADS:

SITE CLASSIFICATION	D
SEISMIC DESIGN CATEGORY	C
IMPORTANCE FACTOR (IE)	1.5

SPECTRAL RESPONSE ACCELERATIONS:

Ss	0.141	S1	0.068
Sms	0.226	SM1	0.163
Sps	0.151	SD1	0.109

ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE
LATERAL FORCE RESISTING SYSTEM STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE

RESPONSE MODIFICATION COEFFICIENT (R) 3.0
SEISMIC RESPONSE COEFFICIENT (Cs) 0.0755
ULTIMATE SEISMIC BASE SHEAR (V) 40 KIPS

LATERAL DESIGN CONTROL WIND
CONTROLLING LATERAL LOADS

FOUNDATION NOTES:

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT PREPARED BY ECS SOUTHEAST, LLC, DATED APRIL 9, 2024.
- FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. BEARING ON APPROVED NATIVE SOILS OR COMPACTED STRUCTURAL FILL.
- TOP OF FOOTING ELEVATIONS MUST BE A MINIMUM DEPTH OF 1'-0" BELOW LOWEST ADJACENT SOIL GRADE.
- CONTRACTOR SHALL INCLUDE COST FOR UNDERCUTTING BETWEEN 2FT TO 4FT IN THE APPARATUS BAY AREA AND BACKFILLING WITH ENGINEERED FILL.
- PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY TO EXPLORE THE EXTENT OF LOOSE, SOFT, EXPANSIVE, OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY WHERE UNSATISFACTORY SOILS ARE PRESENT.
- NO UNBALANCED BACKFILLING MUST BE DONE AGAINST MASONRY OR CONCRETE WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR BY PERMANENT CONSTRUCTION.
- CONTROL GROUNDWATER AND SURFACE RUNOFF THROUGHOUT THE CONSTRUCTION PROCESS. INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES WHICH RESULT IN DETERIORATION OF BEARING MUST BE PREVENTED.

CAST-IN-PLACE CONCRETE NOTES:

- CONCRETE MUST BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301 AND 318.
- REINFORCING MATERIALS MUST BE AS FOLLOWS:
A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.
B. WELDED REINFORCING BARS - ASTM A706, GRADE 60.
C. WELDED WIRE REINFORCEMENT - ASTM A1064, WELDED STEEL WIRE REINFORCEMENT; PROVIDE SHEET TYPE, ROLL TYPE IS NOT ACCEPTABLE.
- ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES MUST BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
- CONCRETE COVER TO REINFORCING STEEL MUST EQUAL THE FOLLOWING, UNLESS OTHERWISE NOTED:
A. SURFACES AGAINST EARTH 3"
B. SURFACES NOT CAST AGAINST EARTH, BUT EXPOSED TO EARTH OR WEATHER IN THE FINAL CONDITION
#5 AND SMALLER 1 1/2"
#6 AND LARGER 2"
C. BEAMS, GIRDERS, COLUMNS, AND WALLS ABOVE FINISHED FIRST FLOOR 1 1/2"
D. ELEVATED SLABS 3/4"
- LAP CONTINUOUS REINFORCING STEEL [57] X BAR DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.
- LAP CONTINUOUS REINFORCING STEEL PER SCHEDULES AND TYPICAL DETAILS
- DO NOT EMBED CONDUIT AND PIPING IN OR PENETRATE THROUGH CAST-IN-PLACE CONCRETE ELEMENTS UNLESS OTHER NOTED.

CONCRETE MIX DESIGN NOTES:

- MIX DESIGNS COMPRESSIVE STRENGTHS (fc) BASED ON 28 DAY DESIGN STRENGTH, UNLESS OTHERWISE NOTED.
- CONCRETE NOT OTHERWISE NOTED:
A. MINIMUM COMPRESSIVE STRENGTH (fc) = 4000 PSI
- FOUNDATIONS (SPREAD FOOTINGS, MAT FOOTINGS):
A. EXPOSURE CLASS = ACI 318 F0, S0, W0, C1
B. MINIMUM COMPRESSIVE STRENGTH (fc) = 3,000PSI
C. MAXIMUM W/CM = 0.5
D. BLENDED HYDRAULIC CEMENT = ASTM C595 TYPE 1L
E. SLUMP = 5" MAX PLUS OR MINUS 1", OR 8" MAX, PLUS OR MINUS 1" FOR CONCRETE WITH A VERIFIED SLUMP OF 3" PLUS OR MINUS 1" BEFORE ADDING HIGH-RANGE WATER-REDUCING OR PLASTICIZING ADMIXTURE
F. AIR CONTENT = NO REQUIREMENTS
G. AGGREGATE = NORMAL WEIGHT, 3/4" NOMINAL
H. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 0.30 PERCENT BY WEIGHT OF CEMENT
- INTERIOR FLOOR SLAB-ON-GRADE:
A. EXPOSURE CLASS = ACI 318 F0, S0, W0, C0
B. MINIMUM COMPRESSIVE STRENGTH (fc) = 3,500PSI
C. MAXIMUM W/CM = 0.5
D. BLENDED HYDRAULIC CEMENT = ASTM C595 TYPE 1L
E. SLUMP = 5" MAX PLUS OR MINUS 1", OR 8" MAX, PLUS OR MINUS 1" FOR CONCRETE WITH A VERIFIED SLUMP OF 3" PLUS OR MINUS 1" BEFORE ADDING HIGH-RANGE WATER-REDUCING OR PLASTICIZING ADMIXTURE
F. AIR CONTENT = DO NOT ALLOW AIR CONTENT IN TROWEL FINISHED FLOORS TO EXCEED 3%
G. AGGREGATE = NORMAL WEIGHT, 3/4" NOMINAL
H. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 1.00 PERCENT BY WEIGHT OF CEMENT
- ELEVATED COMPOSITE CONCRETE SLABS (NORMAL WEIGHT):
A. EXPOSURE CLASS = ACI 318 F0, S0, W0, C0
B. MINIMUM COMPRESSIVE STRENGTH (fc) = 4,000PSI
C. MAXIMUM W/CM = 0.45
D. BLENDED HYDRAULIC CEMENT = ASTM C595 TYPE 1L
E. SLUMP = 8" MAX, PLUS OR MINUS 1" FOR CONCRETE WITH A VERIFIED SLUMP OF 3" PLUS OR MINUS 1" BEFORE ADDING HIGH-RANGE WATER-REDUCING OR PLASTICIZING ADMIXTURE
F. AIR CONTENT = DO NOT ALLOW AIR CONTENT IN TROWEL FINISHED FLOORS TO EXCEED 3%
G. AGGREGATE = NORMAL WEIGHT, 3/4" NOMINAL

CONCRETE MASONRY NOTES:

- CONCRETE MASONRY MATERIALS AND CONSTRUCTION MUST CONFORM TO THE AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", (ACI) 530 / ASCE 5/TMS 402. AND "SPECIFICATION FOR MASONRY STRUCTURES" ACI530.1/ASCE 6/TMS 602.
- CONCRETE MASONRY UNITS MUST CONFORM TO ASTM C90 AND MUST BE MADE WITH NORMAL WEIGHT AGGREGATE. MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY UNITS MUST BE 2,000 PSI AT 28 DAYS.
- COMPRESSIVE STRENGTH OF MASONRY MUST BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.1. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY, fm, MUST BE 2,000 PSI AT 28 DAYS.
- MORTAR MUST BE TYPE 'M' OR 'S' AND MUST COMPLY WITH ASTM C270, PROPORTIONS OR PROPERTIES SPECIFICATION.
- GROUT MUST COMPLY WITH EITHER THE PROPORTIONS OR PROPERTIES SPECIFICATION OF ASTM C476 AND AS FOLLOWS:
A. PROPORTIONS SPECIFICATION: THIS MIX CANNOT CONTAIN ADMIXTURES. WATER MUST BE ADDED IN THE FIELD IN ORDER TO ACHIEVE A SLUMP OF 8-11 INCHES WHEN PLACED IN THE CONCRETE MASONRY UNITS. MORTAR, PEA-GRAVEL CONCRETE, OR "CHAT" MIXES ARE NOT ACCEPTABLE SUBSTITUTES FOR THE SPECIFIED GROUT.
B. PROPERTIES SPECIFICATION: THIS MIX MUST BE PROPORTIONED TO OBTAIN A DOCUMENTED 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI, WITH 3/8" MAX AGGREGATE AND AN 8-11 INCH SLUMP WHEN PLACED IN THE CONCRETE MASONRY UNITS.
- REINFORCING STEEL MUST COMPLY WITH ASTM A615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.
- ALL BOND BEAMS, REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES OR OTHER ANCHORS AND ALL CELLS BELOW GRADE MUST BE GROUTED SOLID. GROUT PROCEDURE MUST COMPLY WITH ACI 530.1.
- ALL CMU WALLS MUST BE REINFORCED CONTINUOUSLY FROM FOUNDATION TO TOP OF WALL. WHERE REINFORCING IS INTERRUPTED, OFFSET AND LAP ADDITIONAL BARS PER THE "TYPICAL OFFSET SPLICE AT MASONRY WALL DETAILS."

CONCRETE MASONRY NOTES (CONT):

- LAP ALL REINFORCING PER SCHEDULE BELOW, TYPICAL UNLESS OTHERWISE NOTED:

MASONRY LAP SCHEDULE	
REINF SIZE	72 x BAR DIAMETER
#4	36"
#5	45"
#6	54"
#7	63"
#8	72"

- PROVIDE STANDARD 9 GAGE LADDER TYPE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16 INCHES ON CENTER AND IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING A MINIMUM OF 2 FEET BEYOND THE JAMB ON EACH SIDE OF THE OPENING, EXCEPT AT CONTROL JOINTS.
- PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS SHOWN IN THE SECTIONS AND DETAILS. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS
- DO NOT LOCATE CONTROL JOINTS WITHIN TWO FEET OF STEEL BEAM BEARING LOCATIONS.
- PROVIDE STANDARD 9 GAGE LADDER TYPE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16 INCHES ON CENTER VERTICALLY TYPICALLY AND AT 8" ON CENTER VERTICALLY AT PARAPETS. ADDITIONALLY, PROVIDE IN THE TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING A MINIMUM OF 2 FEET BEYOND THE JAMB ON EACH SIDE OF THE OPENING, EXCEPT AT CONTROL JOINTS.
- ALL NON-BEARING MASONRY WALLS MUST BE REINFORCED WITH #4 VERTICAL BARS AT 40 INCHES ON CENTER, TYPICAL UNLESS OTHERWISE NOTED. ALL NON-BEARING MASONRY WALLS MUST BE BRACED PER "TYPICAL NON-BEARING MASONRY PARTITION DETAILS".

METAL BUILDING SYSTEM NOTES:

- METAL BUILDING SYSTEM MUST BE IN ACCORDANCE WITH THE METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) "DESIGN PRACTICES MANUAL."
- SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A NORTH CAROLINA LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF METAL BUILDING SYSTEMS. SHOP DRAWINGS MUST INCLUDE DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE A SUMMARY OF CONTROLLING LOAD CASE FOR EACH LOCATION.
- METAL BUILDING SYSTEMS MUST BE DESIGNED FOR THE LOAD INDICATED IN THE GENERAL NOTES AND AS FOLLOWS:
A. DEAD LOADS.....WEIGHT OF ALL SUPPORTED EQUIPMENT, PLUS WEIGHT OF THE BUILDING.
B. COLLATERAL LOADS.....5 PSF
- THE DESIGN REACTIONS (LRFD) USED ARE AS FOLLOWS:

LOAD COMBINATION	GRID	2/A.0 - 6/A.0	2/C.5 - 6/C.5	7/A.0 - 9/A.0	7/C.5 - 9/C.5	1/A - 1/C 6.5/A - 6.5/C	10/A.0 - 10/C.5	8.3, 9.1, 10.5
1.2D+1.6Lr+0.5W (x,y)		26K, 31K	-26K, 31K	43K, 30K	-36K, 30K	13K, 15K	28K, 15K	14K, 7K
0.9D+1.0W (x,y)		30K, -25K	5K, -17K	35K, -23K	13K, -18K	16K, -21K	22K, -15K	10K, -12K

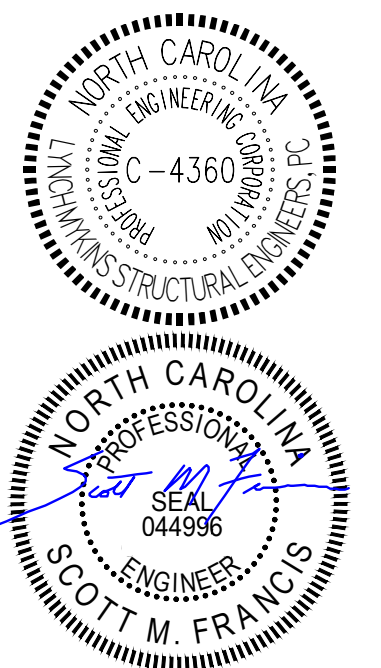
- THE CONTRACTOR MUST BE RESPONSIBLE FOR THE COORDINATION AND COSTS ASSOCIATED WITH A CONTRACTOR INITIATED CHANGE IN BUILDING MODEL OR MANUFACTURER, INCLUDING CONSTRUCTION COSTS AND RE-ENGINEERING COSTS.
- METAL BUILDING SYSTEM DESIGNED BY OTHERS.
- FOUNDATIONS HAVE BEEN DESIGNED USING THE ASSUMED REACTIONS SHOWN. ANY CHANGE IN REACTION LOAD SHOWN BY FINAL PEMB REACTIONS PROVIDED BY METAL BUILDING DESIGNER WILL REQUIRE REVIEW AND POSSIBLE MODIFICATIONS TO THE FOUNDATION DESIGN BY THE EOR. PROVIDE SIGNED AND SEALED CALCULATIONS AND REACTIONS FOR REVIEW PRIOR TO START OF FOUNDATION CONSTRUCTION.
- DESIGN OF THE ANCHOR RODS AND BASEPLATE FOR SUPPORT OF THE METAL BUILDING IS THE RESPONSIBILITY OF THE METAL BUILDING MANUFACTURER. FRAMES MUST HAVE GROUTED BASEPLATES WITH LEVELING NUTS.
- METAL BUILDING FRAMES AND COLUMNS MUST BE DESIGNED FOR PINNED BASE CONNECTIONS.
- METAL BUILDING DESIGN SERVICEABILITY CRITERIA ARE AS FOLLOWS:
A. GRAVITY (ROOF LIVE LOAD):.....L/240
B. GRAVITY (DEAD+ROOF LIVE LOAD):.....L/180
C. GRAVITY (VENEER SUPPORT):.....L/600
D. LATERAL (DRIFT):.....H/400



PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID NO. 102-25C
OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS



03/12/2025

DKA JOB NUMBER

2324

REVISIONS

NO.	DESCRIPTION

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BID DOCUMENTS
3/12/2025

SHEET TITLE
GENERAL NOTES

S001



STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL MUST BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360.
- STRUCTURAL STEEL FABRICATOR MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND BE A DESIGNATED AISC-CERTIFIED PLANT.
- STRUCTURAL STEEL INSTALLER MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND BE A DESIGNATED AISC-CERTIFIED ERECTOR.
- STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS:
 - STRUCTURAL STEEL SHAPES, PLATES AND BARS UNLESS OTHERWISE NOTED - ASTM A572, Fy = 50 KSI
 - STRUCTURAL STEEL W-SHAPES - ASTM A992, Fy = 50 KSI
 - ANCHOR RODS - ASTM F1554, GRADE 36
 - HIGH STRENGTH BOLTS - ASTM A325 (TYPICAL UON)
 - FULLY PRETENSIONED BOLTS - ASTM F1852 (TWIST-OFF TYPE)
 - WASHERS - ASTM F436
 - NUTS - ASTM A563
 - HEADED STUDS - ASTM A29, GRADE 1010 THROUGH 1020
- UNLESS OTHERWISE NOTED, ALL REQUIRED DESIGN STRENGTHS AND REACTIONS INDICATED ARE BASED ON THE "LOADING COMBINATIONS USING STRENGTH DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN" PER SECTION 1605.2 OF THE BUILDING CODE.
- ALL STEEL CONNECTIONS AND MEMBER REINFORCEMENT MUST BE DESIGNED BY FABRICATOR'S QUALIFIED PROFESSIONAL ENGINEER FOR LOADS INDICATED ON THE DRAWINGS, PER OPTION 3B OF ANSI/AISC 303 AND COMPLETE THE FOLLOWING:
 - SUBMIT STRUCTURAL CALCULATIONS SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE [COMMONWEALTH OF VIRGINIA] [STATE OF NORTH CAROLINA] RESPONSIBLE FOR THEIR PREPARATION.
 - THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST REVIEW THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO VERIFY THAT THE CONNECTIONS AS DETAILED ON THE SHOP DRAWINGS COMPLY WITH THE CONNECTION DESIGN REQUIREMENTS OF THE FINAL CALCULATIONS.
 - A REVIEW LETTER, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST BE PROVIDED WITH THE SHOP DRAWINGS AND CALCULATION SUBMITTAL STATING THAT THIS REVIEW AND VERIFICATION HAS BEEN COMPLETED.
- HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION, UNLESS OTHERWISE NOTED.
- BOLTED CONNECTIONS MAY USE NON-STANDARD HOLES, EXCEPT IN THE FOLLOWING LOCATIONS:
 - AXIAL CONNECTIONS IDENTIFIED ON PLAN.
 - ALL FRAMING CONNECTIONS AT BRACED FRAMES AND MOMENT FRAMES.
 - CONNECTIONS IDENTIFIED ON PLAN WITH FULL DEPTH STIFFENER PLATES.
- PROVIDE ANGLE FRAMING AROUND OPENINGS LARGER THAN 6 INCHES IN ANY DIMENSION (INCLUDING ROOF DRAINS) TO SUPPORT STEEL DECK. REFERENCE PLANS AND TYPICAL DETAILS FOR SIZING REQUIREMENTS.
- WELDING MUST BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL." WELD ELECTRODES MUST BE E70XX LOW HYDROGEN, UNLESS OTHERWISE NOTED. PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE REQUIRED BY TABLE J2.4 AISC 360.
- INSTALLATION OF HEADED COMPOSITE STUDS MUST CONFORM TO THE REQUIREMENTS OF AWS D1.1, SECTIONS 9.4 AND 9.5. HEADED COMPOSITE STUDS MUST BE TESTED IN ACCORDANCE WITH AWS D1.1, SECTIONS 9.6, 9.7, AND 9.8 BY A QUALIFIED TESTING AGENCY.
- COORDINATE ALL MEMBER LOCATIONS, UNIT WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED.
- SHOP PRIME STEEL SURFACES, EXCEPT THE FOLLOWING:
 - SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXTEND PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A DEPTH OF 2 INCHES.
 - SURFACES TO BE WELDED.
 - SURFACES TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS.
 - GALVANIZED SURFACES.
 - SURFACES ENCLOSED IN INTERIOR CONSTRUCTION.
- CLEAN ALL STEEL SURFACES TO BE PAINTED. REMOVE LOOSE RUST, MILL SCALE, SPATTER, SLAG, OR FLUX DEPOSITS. PREPARE SURFACES IN ACCORDANCE WITH SSPC-SP3 SPECIFICATION AND STANDARD.
- HOT-DIP GALVANIZE AFTER FABRICATION THE FOLLOWING:
 - ANGLES AND PLATES SUPPORTING MASONRY IN EXTERIOR WALLS.
 - LINTELS AND LINTEL ASSEMBLIES SUPPORTING MASONRY IN EXTERIOR WALLS.
 - ALL STEEL EXPOSED TO WEATHER IN THE FINAL CONSTRUCTION.
 - ITEMS IDENTIFIED AS GALVANIZED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.

STRUCTURAL STEEL NOTES (CONT):

- THE FABRICATION OF STRUCTURAL STEEL FRAMING SHOWN TO BE CURVED MUST BE ACCOMPLISHED BY ROLLING IF FEASIBLE. WHERE ROLLING IS NOT FEASIBLE SUBMIT AN ALTERNATE METHOD FOR REVIEW AND APPROVAL.
- [ALL MEMBERS EXPOSED TO VIEW IN THE FINISHED CONSTRUCTION MUST BE CONSIDERED ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS).]
- STEEL MEMBERS MUST BE SPLICED ONLY WHERE INDICATED. [CONTINUOUS MEMBERS MUST BE SPLICED OVER SUPPORTS, UNLESS OTHERWISE NOTED.]
- LOCATE CONSTRUCTION JOINTS FOR SLABS ON METAL DECK MIDWAY BETWEEN BEAMS WHERE THE JOINT IS PARALLEL TO THE BEAM SPAN. LOCATE JOINTS WITHIN THE MIDDLE THIRD SPAN WHERE THE JOINT IS PERPENDICULAR TO THE BEAM SPAN. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS, UNLESS OTHERWISE SHOWN. REINFORCING TO BE CONTINUOUS THROUGH JOINTS.

STEEL DECK NOTES:

- STEEL DECK MUST BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI), "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND THE STEEL DECK INSTITUTE (SDI), "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS."
- STEEL DECK INSTALLATION MUST COMPLY WITH THE FOLLOWING:
 - FORM DECK: 2" x 20 GAGE. UNLESS OTHERWISE NOTED, ATTACH DECK TO SUPPORTS WITH 5/8 INCH DIAMETER PUDDLE WELDS AT 12 INCHES ON CENTER. FASTEN SIDELAPS WITH (3)-#10 SELF-TAPPING HEX HEAD SCREWS EQUALLY SPACED BETWEEN SUPPORTS. FASTEN EDGEMOST DECK PANEL TO STEEL FRAMING WITH 5/8 INCH DIAMETER PUDDLE WELDS AT SAME SPACING AS SIDELAP FASTENERS.
- STEEL DECK MUST BE INSTALLED PERPENDICULAR TO SUPPORTS AND MUST HAVE A MINIMUM OF THREE CONTINUOUS SPANS. ENDLAPS MUST ONLY OCCUR AT SUPPORTS.
- WELDING MUST BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL".
- STEEL DECK SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING MUST BE GALVANIZED.
- CONDUIT AND PIPING MUST NOT BE PLACED IN ELEVATED SLABS.

SPECIALTY STRUCTURAL ELEMENTS:

- THE FOLLOWING BUILDING ELEMENTS REQUIRE DELEGATED DESIGN AND ENGINEERING BY A SPECIALTY STRUCTURAL ENGINEER:
 - PRE-ENGINEERED METAL BUILDING SYSTEMS
 - CURTAIN WALL AND GLAZING ASSEMBLIES INCLUDING CONNECTIONS TO THE STRUCTURE
 - STRUCTURAL STEEL CONNECTIONS
 - TEMPORARY SHORING AND/OR EXCAVATION SUPPORT
 - PRE-FABRICATED LADDER SYSTEMS

REFERENCE SPECIFICATIONS FOR COMPLETE REQUIREMENTS
- SUBMIT COMPLETE CALCULATIONS AND SHOP DRAWINGS, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THE DESIGN, INCLUDING DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE A SUMMARY OF THE CONTROLLING LOAD CASES FOR EACH LOCATION.
- IN ADDITION TO THEIR OWN DEAD WEIGHT AND THE DEAD LOADS SHOWN OR INDICATED IN THE DRAWINGS, MEMBERS MUST BE DESIGNED TO SUPPORT THE LOADS INDICATED IN THE GENERAL NOTES.
- CONNECTION DETAILS SHOWN ARE SCHEMATIC ONLY. ALL CONNECTIONS MUST BE DESIGNED AND DETAILED BY THE MANUFACTURER TO SUIT THE SPECIFIED LOADS. CONNECTIONS MUST ACCOUNT FOR THERMAL MOVEMENT, DEFLECTION AND CREEP. DETAIL ALL CONNECTIONS ON SHOP DRAWINGS.
- THE CONTRACTOR MUST BE RESPONSIBLE FOR THE COORDINATION OF ALL SPECIALTY STRUCTURAL ELEMENTS AND COST ASSOCIATED WITH A CONTRACTOR INITIATED CHANGE IN BUILDING STRUCTURE, INCLUDING CONSTRUCTION COSTS AND RE-ENGINEERING COSTS.

POST-INSTALLED ANCHOR NOTES:

- ALL POST INSTALLED ANCHORS INDICATED ON THE DRAWINGS ARE BY HILTI, INC. AND MUST BE CONSIDERED THE BASIS OF DESIGN PRODUCT. WHERE NOT EXPLICITLY INDICATED IN THE DRAWINGS, THE FOLLOWING ANCHORS/ADHESIVES MUST BE USED:
 - ANCHORAGE TO CONCRETE
 - ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC40U) WITH STEEL THREADED ROD PER ICC ESR-3187.
 - SCREW ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR-3027.
 - REBAR DOWELING INTO CONCRETE
 - ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC 40-U) WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187.
 - ANCHORAGE TO SOLID GROUTED MASONRY
 - ADHESIVE ANCHORS USE:
 - HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM (ICC PENDING).
 - STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD.
 - MECHANICAL ANCHORS USE:
 - HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR 3056.
 - ALTERNATE POST INSTALLED ANCHOR PRODUCTS MAY BE SUBMITTED TO THE ENGINEER FOR REVIEW AND POSSIBLE APPROVAL. ALL SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE. ALTERNATE PRODUCTS MAY REQUIRE MODIFICATIONS TO ANCHOR DIAMETER, SPACING, AND EMBEDMENT.
 - INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
 - THE CONTRACTOR MUST ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.
 - ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
 - EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR MUST LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN OR GPR.
 - ALL POST INSTALLED ANCHORS REQUIRE CONTINUOUS SPECIAL INSPECTIONS TO VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFERENCE THE STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS FOR ADDITIONAL INFORMATION.
 - ALL POST INSTALLED ANCHORS REQUIRE CONTINUOUS INSPECTIONS BY THE OWNER'S MATERIALS TESTING AGENCY TO VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

SHOP DRAWINGS AND SUBMITTALS:

- THESE DRAWINGS SHALL BE CHECKED AND COORDINATED WITH OTHER MATERIALS AND CONTRACTS BY THE GENERAL CONTRACTOR. SHOP DRAWINGS AND SUBMITTALS MUST BEAR THE CONTRACTOR'S REVIEW STAMP WITH CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- WHEN THE FABRICATOR HAS BEEN AUTHORIZED TO USE THE ARCHITECT'S AND / OR ENGINEER'S DRAWINGS AS ERECTION DRAWINGS, THE FABRICATOR MUST REMOVE ALL TITLE BLOCKS, PROFESSIONAL SEALS, AND ANY OTHER REFERENCE TO THE ARCHITECT AND / OR ENGINEER FROM THAT ERECTION DRAWING.
- WHERE DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION COULD AFFECT THE NEW CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE FIELD MEASUREMENTS REQUIRED FOR INCORPORATION IN THE SHOP DRAWING AND PRIOR TO FABRICATION.



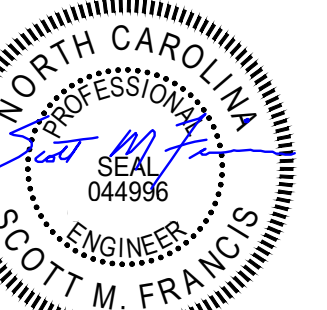
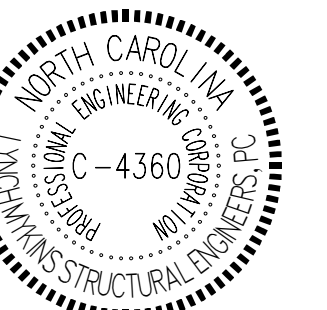
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PROJECT INFORMATION

ONSLOW COUNTY BEAR
CREEK FIRE STATION
ONSLOW COUNTY
BID NO. 102-25C
OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS



03/12/2025

DKA JOB NUMBER

2324

REVISIONS

NO.	DESCRIPTION

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BID DOCUMENTS

3/12/2025

SHEET TITLE

GENERAL NOTES

S002



Structural Engineers
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LM Project Number: LM23.192

ABBREVIATIONS

ARCH	ARCHITECT	L	LOW
BLDG	BUILDING	LLH	LONG LEG HORIZONTAL
BM	BEAM	LLV	LONG LEG VERTICAL
BOD	BOTTOM OF DECK	LSH	LONG SIDE HORIZONTAL
BOS	BOTTOM OF STEEL	LSV	LONG SIDE VERTICAL
BOT, B	BOTTOM	LTWT	LIGHTWEIGHT
BRG	BEARING	LWC	LIGHTWEIGHT CONCRETE
BTWN	BETWEEN	MAS	MASONRY
CFMF	COLD-FORMED METAL FRAMING	MATL	MATERIAL
CJ	CONTROL JOINT	MAX	MAXIMUM
CL	CENTERLINE	MECH	MECHANICAL
CLR	CLEAR	MF	MOMENT FRAME
CMU	CONCRETE MASONRY UNIT	MFR	MANUFACTURER
COL	COLUMN	MID	MIDDLE
CONC	CONCRETE	MIN	MINIMUM
CONN	CONNECTION	NTS	NOT TO SCALE
CONSTR	CONSTRUCTION	OC	ON CENTER
CONT	CONTINUOUS	OPNG	OPENING
COORD	COORDINATE	PL	PLATE
CTR	CENTER	REF	REFERENCE, REFER TO
CTRD	CENTERED	REINF	REINFORCE, REINFORCED, REINFORCING
DIA, Ø	DIAMETER	REQD	REQUIRED
DCJ	DOWELED CONTROL JOINT	REQMTS	REQUIREMENTS
DWGS	DRAWINGS	SCHED	SCHEDULE
EA	EACH	SF	STEPPED FOOTING
EF	EACH FACE	SIM	SIMILAR
EL	ELEVATION	SL	SLOPE
ELEV	ELEVATOR	SOG	SLAB-ON-GRADE
EMBED	EMBEDMENT	STD	STANDARD
EOD	EDGE OF DECK	STIFF	STIFFENER
EOS	EDGE OF SLAB	TBE	TRUSS BEARING ELEVATION
EQ	EQUAL	T&B	TOP & BOTTOM
EXIST	EXISTING	THK	THICKNESS
EXP	EXPANSION	TOC	TOP OF CONCRETE
EXT	EXTERIOR	TOF	TOP OF FOOTING
FDN	FOUNDATION	TOM	TOP OF MASONRY
FRMG	FRAMING	TOS	TOP OF STEEL
FTG	FOOTING	TS	THICKENED SLAB
FV, ±	FIELD VERIFY	TYP	TYPICAL
GALV	GALVANIZED	UNON	UNLESS OTHERWISE NOTED
GEN	GENERAL	VERT	VERTICAL
GT	GIRDER TRUSS	W/	WITH
H	HIGH	WP	WORKING POINT
HK	HOOK	WWR	WELDED WIRE REINFORCING
HORIZ	HORIZONTAL		
HSS	HOLLOW STRUCTURAL SECTION		
HT	HIP TRUSS		
INT	INTERIOR		
JBE	JOIST BEARING ELEVATION		
KCJ	KEYED CONSTRUCTION JOINT		

DRAWINGS LEGEND

	SECTION/DETAIL NUMBER/LETTER	BOD = +X'-X"	BOTTOM OF DECK ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
	SECTION/DETAIL MARK	TOS = +X'-X"	TOP OF STEEL ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
	SHEET NUMBER WHERE SECTION/DETAIL MARK IS DRAWN	BOS = +X'-X"	BOTTOM OF STEEL ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
	COLUMN GRID MARK	TOM = +X'-X"	TOP OF MASONRY ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
	PLAN KEY NOTE MARK	TBE = +X'-X"	TRUSS BEARING ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
	FIELD VERIFY		MOMENT CONNECTION
	DIRECTION OF SLOPE		FULL DEPTH STIFFENER CONNECTION
	CHANGE IN ELEVATION		JOIST BOTTOM CHORD EXTENSION
	CHANGE IN SLOPE		BEAM BOTTOM FLANGE BRACE
	PIPE CROSSING FOOTING		SLAB MARK / SPAN DIRECTION
	SLAB-ON-GRADE JOINT		BEARING WALL EXTENDING ABOVE FLOOR / ROOF
	WALL FOOTING MARK		BEARING WALL TERMINATING BELOW FLOOR / ROOF
	COLUMN FOOTING MARK		NON-BEARING WALL BEARING ON FLOOR BELOW
	MECHANICAL UNIT SUPPORTED ABOVE FRAMING (WEIGHT IN POUNDS) - COORD W/ MECH DWGS		EXTERIOR WALL TERMINATING BELOW FLOOR / ROOF
	MECHANICAL UNIT SUPPORTED BELOW FRAMING (WEIGHT IN POUNDS) - COORD W/ MECH DWGS		CMU SHEARWALL
	FLOOR / ROOF OPENING		WALL TYPE MARK
	HORIZONTAL BRIDGING		STEEL LINTEL MARK
	CROSS BRIDGING		STEEL LINTEL BEARING PLATE MARK
	TOP OF FOOTING ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"		TRUSS MARK
	TOP OF PILE CAP / GRADE BEAM ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"		BEARING WALL EXTENDING ABOVE FLOOR / ROOF
	TOP OF SLAB ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"		EXTERIOR WALL TERMINATING BELOW FLOOR / ROOF
	INDICATES SIDE OF WALL TO BE SHEATHED		EXTERIOR WALL TERMINATING BELOW FLOOR / ROOF
	LENGTH OF SHEATHING		CFMF SHEARWALL
	SHEARWALL MARK		HOLD-DOWN ANCHOR
	SHEARWALL TYPE - REFERENCE SCHEDULE		MULTIPLE STUD PACK
	BUILT-UP ROOF FRAMING		
	WALL FOOTING MARK		
	COLUMN FOOTING MARK		



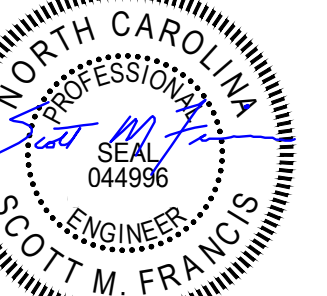
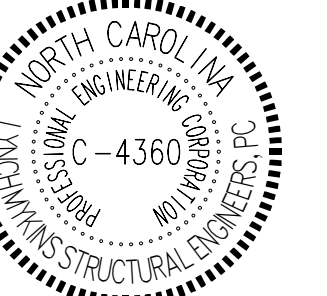
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PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID NO. 102-25C
OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS



03/12/2025

DKA JOB NUMBER

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REVISIONS

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BID DOCUMENTS
3/12/2025

SHEET TITLE

ABBREVIATIONS / LEGEND
S003

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LM Project Number: LM23.192

STATEMENT OF SPECIAL INSPECTION SERVICES

PROJECT: ONSLOW COUNTY BEAR CREEK FIRE STATION
 LOCATION: 138 OLD SAND RD, HUBERT, NC 28539
 OWNER'S REPRESENTATIVE: CHRISTINA RUSSEL
 OWNER'S ADDRESS: JACKSONVILLE, NORTH CAROLINA

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE 2018 NORTH CAROLINA STATE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT. THE NAME OF THE SPECIAL INSPECTOR, THE IDENTITY OF OTHER APPROVED AGENCIES RETAINED FOR CONDUCTING SPECIAL INSPECTIONS, AND THE REQUIRED INSPECTOR QUALIFICATIONS. THIS STATEMENT OF SPECIAL INSPECTIONS WAS PREPARED BY THE FOLLOWING DESIGNERS OF RECORD:

STRUCTURAL	SCOTT M. FRANCIS, PE	(Type or print name)	(Signature)	(Date)
ARCHITECTURAL		(Type or print name)	(Signature)	(Date)
MECHANICAL		(Type or print name)	(Signature)	(Date)
OTHER		(Type or print name)	(Signature)	(Date)

THE SPECIAL INSPECTOR MUST KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND MUST FURNISH REPORTS TO THE STATE CONSTRUCTION OFFICE AND THE DESIGNERS OF RECORD. REPORTS MUST INDICATE IF THE WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCOVERED DISCREPANCIES MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE STATE CONSTRUCTION OFFICE AND THE DESIGNERS OF RECORD. THE SPECIAL INSPECTIONS PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS MUST BE SUBMITTED TO THE STATE CONSTRUCTION OFFICE, OWNER, AND THE DESIGNERS OF RECORD.

INTERIM REPORT FREQUENCY: MONTHLY

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

OWNER'S AUTHORIZATION ACCEPTED FOR THE SCO BY:
 (Signature) (Date) (Signature) (Date)

SCHEDULE OF SPECIAL INSPECTION SERVICES A

THE FOLLOWING COMPRISES THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS.

- STRUCTURAL STEEL & HIGH STRENGTH BOLTING
- WELDING OF STRUCTURAL STEEL
- COLD-FORMED STEEL DECK
- OPEN-WEB STEEL JOISTS & JOIST GIRDERS
- COLD-FORMED STEEL FRAMING
- CONCRETE CONSTRUCTION
- MASONRY CONSTRUCTION
- WOOD CONSTRUCTION
- SOILS
- DRIVEN DEEP FOUNDATIONS
- CAST-IN-PLACE DEEP FOUNDATIONS
- HELICAL PILE FOUNDATIONS
- RAMMED AGGREGATE PIERS & STONE COLUMNS
- SPRAYED FIRE-RESISTANT MATERIAL
- MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS
- EXTERIOR INSULATION & FINISH SYSTEM
- FIRE-RESISTANT PENETRATIONS & JOINTS
- SMOKE CONTROL
- RETAINING WALL & SYSTEMS > 5 FEET
- SPECIAL INSPECTIONS FOR WIND RESISTANCE
- SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

- A. THE INSPECTION FREQUENCY INDICATED ON THE FOLLOWING INSPECTION TABLES ARE "C" CONTINUOUS, "P" PERIODIC, & "O" RANDOM ON A DAILY BASIS.
 B. LEVEL A IS THE MINIMUM INSPECTION PROGRAM FOR EMPIRICALLY / PRESCRIPTIVELY DESIGNED MASONRY IN RISK CATEGORY I, II OR III STRUCTURES. LEVEL B IS THE MINIMUM INSPECTION PROGRAM FOR EMPIRICALLY / PRESCRIPTIVELY DESIGNED MASONRY IN RISK CATEGORY IV STRUCTURES AND ENGINEERED MASONRY IN RISK CATEGORY I, II OR III STRUCTURES. LEVEL C IS THE MINIMUM INSPECTION PROGRAM FOR ENGINEERED MASONRY IN RISK CATEGORY IV STRUCTURES. ENGINEERED MASONRY STRUCTURES ARE THOSE DESIGNED IN ACCORDANCE WITH PORTIONS OF THE TMS 402-13 / ACI 530-13/ASCE 5-13 OTHER THAN PART 4 OR APPENDIX A.

INSPECTION AGENTS	FIRM NAME & POINT OF CONTACT	ADDRESS / PHONE / E-MAIL
1. SPECIAL INSPECTOR (SI-1)		
2. TESTING AGENCY (TA-1)		
3. TESTING AGENCY (TA-2)		
4. GEOTECHNICAL ENGINEER (GE-1)		
5. OTHER (O-1)		

NOTE: THE INSPECTION AND TESTING AGENT(S) MUST BE ENGAGED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL OF RECORD ACTING AS THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE STATE CONSTRUCTION OFFICE, PRIOR TO COMMENCING WORK.

- SEISMIC DESIGN CATEGORY: A B C D
 BASIC WIND SPEED (V₅₀): 90-109 MPH 110-119 MPH >120 MPH
 WIND EXPOSURE CATEGORY: B C D

STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING

INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			AISC 360	NCBC
1. FABRICATOR CERTIFICATION / VERIFICATION OF QUALITY CONTROL PROCEDURES				
a. VERIFY FABRICATOR QUALIFICATIONS	<input checked="" type="checkbox"/>	C		1704.2.5.1
b. REVIEW MATERIAL TEST REPORTS & CERTIFICATIONS	<input checked="" type="checkbox"/>	C	N5.2	
c. COLLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION OF FABRICATION	<input checked="" type="checkbox"/>	C		1704.5
2. INSPECTIONS PRIOR TO HIGH-STRENGTH BOLTING AT PRETENSIONED AND SLIP-CRITICAL JOINTS				
a. COLLECT MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS	<input checked="" type="checkbox"/>	C	TBL N5.6-1	
b. FASTENERS ARE MARKED PER ASTM REQUIREMENTS	<input checked="" type="checkbox"/>	P	TBL N5.6-1	
c. ENSURE CORRECT FASTENERS AND BOLTING PROCEDURES ARE SELECTED FOR JOINT DETAILS	<input checked="" type="checkbox"/>	P	TBL N5.6-1	
d. VERIFY CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION WHEN SPECIFIED, COMPLY WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	P	TBL N5.6-1	
e. OBSERVE AND DOCUMENT PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONAL FOR FASTENER ASSEMBLIES AND METHODS	<input checked="" type="checkbox"/>	P	TBL N5.6-1	
f. VERIFY PROPER STORAGE PROVIDED FOR ALL FASTENER COMPONENTS	<input checked="" type="checkbox"/>	P	TBL N5.6-1	
3. INSPECTIONS DURING HIGH-STRENGTH BOLTING AT PRETENSIONED AND SLIP-CRITICAL JOINTS				
a. ENSURE CORRECT FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS, WHEN SPECIFIED, ARE POSITIONED AS REQUIRED	<input checked="" type="checkbox"/>	P	TBL N5.6-2	
b. VERIFY JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING	<input checked="" type="checkbox"/>	P	TBL N5.6-2	
c. VERIFY FASTENER COMPONENTS NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	<input checked="" type="checkbox"/>	P	TBL N5.6-2	
d. ENSURE FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC. PROGRESSING FROM THE MOST RIGID POINT TOWARDS FREE EDGES	<input checked="" type="checkbox"/>	P	TBL N5.6-2	
4. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS AFTER HIGH-STRENGTH BOLTING IS COMPLETE	<input checked="" type="checkbox"/>	C	TBL N5.6-3	
5. STRUCTURAL DETAILS				
a. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF ANCHOR RODS AND OTHER EMBEDDED ITEMS SUPPORTING STRUCTURAL STEEL	<input checked="" type="checkbox"/>	P	N5.7	
b. INSPECTION OF FABRICATED ASSEMBLIES & ERECTED STEEL FRAMING VERIFYING COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	P	N5.7	
6. COMPOSITE CONSTRUCTION				
a. VERIFY PLACEMENT & INSTALLATION OF STEEL DECK	<input checked="" type="checkbox"/>	P	TBL N6.1	
b. OBSERVE PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	<input type="checkbox"/>	P	TBL N6.1	
c. DOCUMENT ACCEPTANCE OR REJECTION OF COMPOSITE CONSTRUCTION ELEMENTS	<input checked="" type="checkbox"/>	P	TBL N6.1	

COLD-FORMED STEEL FRAMING

INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			STANDARD	NCBC
1. FABRICATOR CERTIFICATION / VERIFICATION OF QUALITY CONTROL PROCEDURES				
a. VERIFY FABRICATOR QUALIFICATIONS	<input checked="" type="checkbox"/>	C		1704.2.5.1
b. COLLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION OF FABRICATION	<input checked="" type="checkbox"/>	C		1704.5
2. FOR TRUSSES CLEAR SPANNING 60 FEET OR MORE, VERIFY THAT BOTH TEMPORARY AND PERMANENT RESTRAINTS AND BRACES ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	<input type="checkbox"/>	P		1705.2.4

WELDING OF STRUCTURAL STEEL

INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			AISC 360	NCBC
1. INSPECTIONS PRIOR TO WELDING				N5.4
a. COLLECT & REVIEW WELDING PROCEDURE SPECIFICATION (WPS) AND VERIFY MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	<input checked="" type="checkbox"/>	C	TBL N5.4-1	
b. CONFIRM WELD MATERIAL TYPE & GRADE	<input checked="" type="checkbox"/>	P	TBL N5.4-1	
c. CONFIRM METHOD OF WELDER IDENTIFICATION	<input checked="" type="checkbox"/>	P	TBL N5.4-1	
d. INSPECTION OF FIT-UP FOR GROOVE & FILLET WELDS INCLUDING ACCESS HOLE CONFIGURATION & FINISH	<input checked="" type="checkbox"/>	P	TBL N5.4-1	
2. INSPECTIONS DURING WELDING				N5.4
a. VERIFY WELDER QUALIFICATIONS	<input checked="" type="checkbox"/>	P	TBL N5.4-2	
b. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES	<input checked="" type="checkbox"/>	P	TBL N5.4-2	
c. MONITOR ENVIRONMENTAL CONDITIONS	<input checked="" type="checkbox"/>	P	TBL N5.4-2	
d. MONITOR PROPER IMPLEMENTATION OF WPS	<input checked="" type="checkbox"/>	P	TBL N5.4-2	
e. INSPECTION OF WELDING TECHNIQUES INCLUDING NO WELDING OVER CRACKED TACK WELDS	<input checked="" type="checkbox"/>	P	TBL N5.4-2	
3. INSPECTIONS AFTER WELDING				N5.4, N5.5
a. VERIFY WELDS HAVE BEEN CLEANED	<input checked="" type="checkbox"/>	P	TBL N5.4.3	
b. CONFIRM THE INSTALLED SIZE, LENGTH AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
c. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
d. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
e. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3' OF WELDED DOUBLER PLATES, CONTINUITY PLATES AND STIFFENERS	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
f. BACKING AND WELD TABS REMOVED PER CONTRACT DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
g. OBSERVE AND INSPECT WELD REPAIR ACTIVITIES	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
h. FOR RISK CATEGORY III OR IV STRUCTURES, CONDUCT ULTRASONIC TESTING (UT) OF CJP GROOVE WELDS IN MATERIALS ≥ 5/16" AT BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING	<input checked="" type="checkbox"/>	C	N5.5B, N5.5E	
i. FOR RISK CATEGORY II STRUCTURES, CONDUCT ULTRASONIC TESTING (UT) OF CJP GROOVE WELDS IN MATERIALS ≥ 5/16" AT BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING	<input checked="" type="checkbox"/>	P	N5.5B, N5.5F	
j. CONDUCT MAGNETIC PARTICLE TESTING (MT) OR LIQUID PENETRANT TESTING (PT) AT THERMALLY CUT SURFACES OF ACCESS HOLES FOR ROLLED SECTION WITH TF > 2" AND BUILT-UP SHAPE WITH TW > 2"	<input checked="" type="checkbox"/>	C	N5.5C	
k. RADIOGRAPHIC OR ULTRASONIC INSPECTION AT JOINTS SUBJECT TO FATIGUE	<input checked="" type="checkbox"/>	C	N5.5D, TBL A-3.1	
l. DOCUMENT ACCEPTANCE / REJECTION OF WELDED JOINTS AND MEMBERS	<input checked="" type="checkbox"/>	C	TBL N5.4-3, N5.5G	



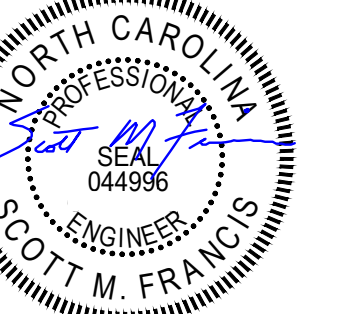
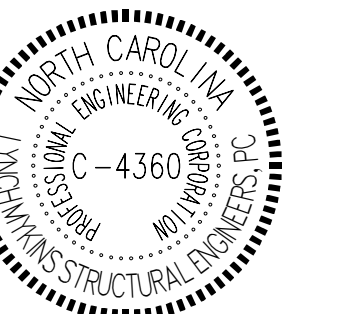
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PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
 ONSLOW COUNTY
 BID NO. 102-25C
 OLD SAND RIDGE RD, HUBERT, NC 28539

SEALS



03/12/2025

DKA JOB NUMBER

2324

REVISIONS

NO.	DESCRIPTION

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PA: JIMMY ARDEL EDWARDS
 PM:
 Drawn By:
 Plot Date: 3/10/2025 10:43:18 AM

DATE ISSUED

BID DOCUMENTS
 3/12/2025

SHEET TITLE
 SPECIAL INSPECTIONS 1

S004

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 LM Project Number: LM23.192

COLD-FORMED STEEL DECK				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			SDI QA/QC	NCBC
1. PRIOR TO DECK PLACEMENT, VERIFY DECK AND DECK ACCESSORIES COMPLY WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL 1.1	
2. INSPECTION TASKS AFTER DECK PLACEMENT				
a. VERIFY THE INSTALLATION OF DECK & DECK ACCESSORIES COMPLIES WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL 1.2	
b. VERIFY THAT DECK MATERIALS' MILL CERTIFICATIONS COMPLY WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL 1.2	
3. INSPECTION TASKS PRIOR TO DECK WELDING				
a. COLLECT WELDING PROCEDURE SPECIFICATION (WPS)	<input checked="" type="checkbox"/>	P	TBL 1.3	
b. COLLECT MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	<input checked="" type="checkbox"/>	P	TBL 1.3	
c. VERIFY MATERIAL TYPE AND GRADE	<input checked="" type="checkbox"/>	P	TBL 1.3	
d. CHECK WELDING EQUIPMENT	<input checked="" type="checkbox"/>	P	TBL 1.3	
4. INSPECTION TASKS DURING DECK WELDING				
a. VERIFY WELDER QUALIFICATIONS	<input checked="" type="checkbox"/>	P	TBL 1.4	
b. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES	<input checked="" type="checkbox"/>	P	TBL 1.4	
c. MONITOR ENVIRONMENTAL CONDITIONS	<input checked="" type="checkbox"/>	P	TBL 1.4	
d. MONITOR PROPER IMPLEMENTATION OF WPS	<input checked="" type="checkbox"/>	P	TBL 1.4	
5. INSPECTION TASKS AFTER WELDING				
a. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP AND PERIMETER WELDS	<input checked="" type="checkbox"/>	C	TBL 1.5	
b. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA	<input checked="" type="checkbox"/>	C	TBL 1.5	
c. OBSERVE WELD REPAIR ACTIVITIES	<input checked="" type="checkbox"/>	C	TBL 1.5	
6. INSPECTION TASKS PRIOR TO MECHANICAL FASTENING				
a. VERIFY MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	<input checked="" type="checkbox"/>	P	TBL 1.6	
b. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	<input checked="" type="checkbox"/>	P	TBL 1.6	
c. VERIFY PROPER STORAGE OF MECHANICAL FASTENERS	<input checked="" type="checkbox"/>	P	TBL 1.6	
7. INSPECTION TASKS DURING MECHANICAL FASTENING				
a. OBSERVE FASTENER SPACING AND POSITION	<input checked="" type="checkbox"/>	P	TBL 1.7	
b. VERIFY FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	<input checked="" type="checkbox"/>	P	TBL 1.7	
8. INSPECTION TASKS AFTER MECHANICAL FASTENING				
a. CHECK SPACING, TYPE AND INSTALLATION OF SUPPORT FASTENERS	<input checked="" type="checkbox"/>	C	TBL 1.8	
b. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	<input checked="" type="checkbox"/>	C	TBL 1.8	
c. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	<input checked="" type="checkbox"/>	C	TBL 1.8	
d. VERIFY REPAIR ACTIVITIES	<input checked="" type="checkbox"/>	C	TBL 1.8	
9. DOCUMENT ACCEPTANCE OR REJECTION OF DECK & DECK ACCESSORIES FOR ALL PHASES OF CONSTRUCTION	<input checked="" type="checkbox"/>	C	TBLS 1.1 THRU 1.8	

CONCRETE CONSTRUCTION				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			STANDARD _A	NCBC
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	<input checked="" type="checkbox"/>	P	ACI CH.20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING:			AWS D1.4	
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 AND COLLECT REPORTS	<input checked="" type="checkbox"/>	P	ACI 26.6.4	1704.5
b. INSPECT SINGLE-PASS FILLET WELDS ≤ 5/16"	<input checked="" type="checkbox"/>	P	ACI 26.6.4	
c. INSPECT ALL WELDS OTHER THAN SINGLE-PASS FILLET WELDS ≤ 5/16"	<input checked="" type="checkbox"/>	C	ACI 26.6.4	
3. CONCRETE ANCHORS:				
a. INSPECT ANCHORS CAST IN CONCRETE	<input checked="" type="checkbox"/>	P	ACI 17.8.2	
b. INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS THAT RESIST SUSTAINED TENSION LOADS	<input checked="" type="checkbox"/>	C	ACI 17.8.2.4	
c. INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH ORIENTATIONS DIFFERENT FROM ITEM 3.B	<input checked="" type="checkbox"/>	P	ACI 17.8.2	
d. INSPECT MECHANICAL ANCHORS INSTALLED IN HARDENED CONCRETE	<input checked="" type="checkbox"/>	P	ACI 17.8.2	
4. COLLECT MIX DESIGNS AND VERIFY THE CORRECT MIX USED DURING INSTALLATION	<input checked="" type="checkbox"/>	P	ACI CH 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	<input checked="" type="checkbox"/>	C	ASTM C172, ASTM C31, ACI 26.4, 26.12	1908.10
6. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	<input checked="" type="checkbox"/>	C	ACI 26.5	1908.6, 1908.7, 1908.8
7. COLLECT REPORTS OF PRECONSTRUCTION TESTS FOR SHOTCRETE WHEN PRECONSTRUCTION TESTS ARE REQUIRED BY NCBC SECTION 1908.4	<input checked="" type="checkbox"/>	C		1704.5, 1908.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	<input checked="" type="checkbox"/>	P	ACI 26.5.3-26.5.5	1908.9
9. INSPECTIONS FOR PRESTRESSED CONCRETE				
a. OBSERVE APPLICATION OF PRESTRESSING FORCE	<input type="checkbox"/>	C	ACI 26.10	
b. INSPECT GROUTING OF BONDED PRESTRESSING TENDONS	<input type="checkbox"/>	C	ACI 26.10	
10. VERIFY CONCRETE STRENGTH PRIOR TO STRESSING OF PT TENDONS AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM PT & MILD BEAMS AND STRUCTURAL SLABS	<input type="checkbox"/>	P	ACI 26.11.2	
11. INSPECT ERECTION OF PRECAST MEMBERS	<input type="checkbox"/>	P	ACI 26.8	
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	<input checked="" type="checkbox"/>	P	ACI 26.11.1,2(B)	
13. COLLECT MILL TEST REPORTS FOR ASTM A615 REBAR USED BY SFRS SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS OR COUPLING BEAMS	<input checked="" type="checkbox"/>	C	ACI 20.2.2.5	1704.5

A. REFERENCES TO "ACI" IN THIS TABLE ARE TO THE ACI 318-14.

FIRE-RESISTANT PENETRATIONS AND JOINTS _A				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			STANDARD	NCBC
1. INSPECT THROUGH-PENETRATION FIRESTOP SYSTEMS AT FIRE WALLS, FIRE BARRIERS, SMOKE BARRIERS AND FIRE PARTITION WALLS IN ACCORDANCE WITH ASTM E2174	<input checked="" type="checkbox"/>	P	1705.17.1, 714.3.1.2	
2. INSPECT PENETRATION FIRESTOP SYSTEMS AT PENETRATIONS THROUGH MEMBRANES THAT ARE PART OF A HORIZONTAL ASSEMBLY IN ACCORDANCE WITH ASTM E2174	<input checked="" type="checkbox"/>	P	1705.17.1, 714.4.2	
3. INSPECT FIRE-RESISTANT JOINT SYSTEMS IN ACCORDANCE WITH ASTM 2393	<input checked="" type="checkbox"/>	P	1705.17.2, 715.3, 715.4	

A. THE INSPECTION OF FIRE-RESISTANT PENETRATIONS AND JOINTS APPLIES ONLY TO HIGH-RISE BUILDINGS OR BUILDINGS ASSIGNED TO RISK CATEGORY III OR IV.

SOILS				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			STANDARD	NCBC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	<input checked="" type="checkbox"/>	P		1705.6
2. VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND HAVE REACHED THE CORRECT SOIL MATERIAL	<input checked="" type="checkbox"/>	P		1705.6
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	<input checked="" type="checkbox"/>	P		1705.6
4. VERIFY THAT MATERIALS USED, DENSITIES, LIFT THICKNESS AND PROCEDURES USED DURING PLACEMENT AND COMPACTION OF COMPACTED FILL ARE IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	C		1705.6
5. PRIOR TO PLACEMENT OF COMPACTED FILL, VERIFY THAT THE SUBGRADE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	P		1705.6

MASONRY - LEVEL C				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			TMS 402 _A	TMS 602 _A
1. TEST & VERIFY FM & FAAC PRIOR TO CONSTRUCTION & FOR EVERY 5,000 SQUARE FEET DURING CONSTRUCTION	<input checked="" type="checkbox"/>	C	TBL 3.1.3	ART. 1.5
2. TEST & VERIFY PROPORTIONS OF MATERIALS IN PREMIXED / PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING, AS DELIVERED TO SITE	<input checked="" type="checkbox"/>	C	TBL 3.1.3	
3. TEST & VERIFY SLUMP FLOW & VISUAL STABILITY INDEX AS DELIVERED TO SITE FOR SELF-CONSOLIDATING GROUT	<input checked="" type="checkbox"/>	C	TBL 3.1.3	ART. 1.5B.1.b.3
4. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	P	TBL 3.1.3	ART. 1.5
5. VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIONS OF SITE-MIXED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	<input checked="" type="checkbox"/>	P		ART. 2.1, 2.6A, 2.6B, 2.6C, 2.4G.1.b
b. GRADE, TYPE, & SIZE OF REINFORCEMENT & ANCHOR BOLTS, & PRESTRESSING TENDONS & ANCHORAGE	<input checked="" type="checkbox"/>	P	SEC 6.1	ART. 2.4, 3.4
c. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS	<input checked="" type="checkbox"/>	P		ART. 3.3B
d. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	<input checked="" type="checkbox"/>	C	SEC 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2E, 3.4, 3.6A
e. GROUT SPACE IS CLEAN, AND CLEANOUTS PROVIDED WHEN REQUIRED	<input checked="" type="checkbox"/>	P		ART. 3.2D, 3.2F
f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	<input checked="" type="checkbox"/>	C		ART. 3.5, 3.6C
g. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	<input checked="" type="checkbox"/>	P		ART. 3.3F
h. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	<input checked="" type="checkbox"/>	C	SEC 1.2.1(E), 6.1.4.3, 6.2.1	
i. WELDING OF REINFORCEMENT	<input checked="" type="checkbox"/>	C	SEC 8.1.6.7.2, 9.3.3.4(C), 11.3.3.4(B)	
j. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE < 40°F) OR HOT WEATHER (TEMPERATURE > 90°F)	<input checked="" type="checkbox"/>	P		ART. 1.8C, 1.8D
k. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	<input checked="" type="checkbox"/>	C		ART. 3.6B
l. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	<input checked="" type="checkbox"/>	C		ART. 3.3B.9, 3.3F.1.b
m. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	<input checked="" type="checkbox"/>	C		ART. 2.1C.1
6. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND OR PRISMS	<input checked="" type="checkbox"/>	C		ART. 1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4

A. REFERENCES TO "TMS402" IN THIS TABLE ARE TO THE TMS402/ACI530/ASCE5-13. REFERENCES TO "TMS602" ARE TO TMS602/ACI530.1/ASCE6-13.

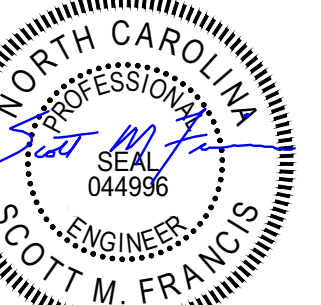
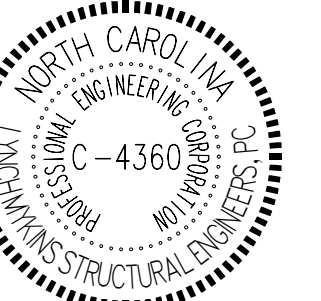


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PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID NO. 102-25C
OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS



03/12/2025

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BID DOCUMENTS
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SHEET TITLE
SPECIAL INSPECTIONS 2

S005

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LM Project Number: LM23.192

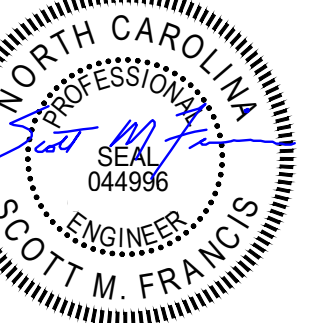
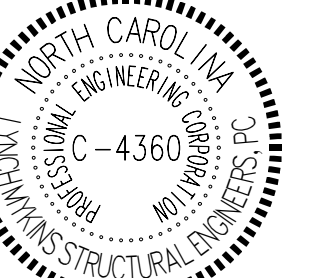


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SHEET TITLE
FOUNDATION PLAN

S111

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LM Project Number: LM23.192

FOUNDATION / SLAB ON GRADE PLAN NOTES

- A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.
- B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.
- C. TOP OF ALL FOOTINGS MUST BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED.
- D. NOT ALL UTILITY LOCATIONS ARE SHOWN ON PLAN. THE CONTRACTOR MUST COORDINATE THE LOCATIONS, SIZES, AND INVERTS OF UTILITIES. AT LOCATIONS WHERE UTILITIES PASS BELOW THE TOP OF FOOTING ELEVATION, STEP THE TOP OF FOOTING DOWN ON EACH SIDE PER THE "TYPICAL STEPPED FOOTING DETAIL" AND SLEEVE THE UTILITY THROUGH THE FOUNDATION WALL. THE CONTRACTOR MAY, AT HIS/HER OPTION, SLEEVE THE UTILITY THROUGH THE FOUNDATION PER THE "TYPICAL PIPE SLEEVE AT WALL FOOTING DETAILS."
- E. UNLESS OTHERWISE INDICATED, EXTEND WALL FOOTINGS A MINIMUM OF 6 INCHES BEYOND ENDS OF WALLS.
- F. NOT ALL SITE WALLS ARE SHOWN ON PLAN. CONTRACTOR MUST COORDINATE CIVIL AND LANDSCAPE DRAWINGS FOR SITE WALL INFORMATION.
- G. DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO COLUMN GRIDLINES AND OUTSIDE FACE OF FOUNDATION WALLS, UNLESS OTHERWISE NOTED.
- H. SLAB-ON-GRADE JOINTS MUST BE SAWED JOINTS OR DOWELED CONSTRUCTION JOINTS, UNLESS OTHERWISE NOTED. CONTRACTOR MUST COORDINATE ALL SLAB JOINTS WITH JOINTS IN BONDED FLOOR FINISHES. REFERENCE ARCHITECTURAL DRAWINGS FOR FLOOR FINISH JOINT LOCATIONS.
- I. PLACE (1) #4 x 3'-0" IN MIDDEPTH OF SLAB AT RE-ENTRANT CORNERS WHERE A SLAB JOINT DOES NOT OCCUR.
- J. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIMIT OF SLAB DEPRESSIONS.
- K. FLOOR DRAINS AND FLOOR SINKS ARE NOT SHOWN ON PLAN. REFER TO PUMING DRAWINGS FOR LOCATIONS.
- L. REFER TO CIVIL DRAWINGS FOR EXTERIOR CONCRETE SLABS AND PAVING.

KEY NOTES

- 101 4" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 6" DEPTH OF POROUS FILL. REINFORCE SLAB WITH 6x6 W2.9xW2.9 WELDED WIRE FABRIC REINFORCING PLACED 1 1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.
- 102 8" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 6" DEPTH OF POROUS FILL. REINFORCE SLAB WITH #4 AT 12" ON CENTER LOCATED 2 1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.
- 103 8" CMU WITH #5 BARS AT 16" ON CENTER.
- 107 12" CMU WITH #5 BARS AT 16" ON CENTER.
- 108 8" CMU KNEEWALL WITH #5 BARS AT 32" ON CENTER.
- 110 EXTRACTOR PAD. REFERENCE B1/S502 FOR DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE.
- 111 SCREEN WALL AND FOOTING. REFER TO TYPICAL DETAIL ON S502. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND LOCATION.
- 113 16"x16" CONCRETE PEDESTAL. REFERENCE A3/S505.
- 114 40"x40" CONCRETE PEDESTAL. REFERENCE A3/S505.

WALL FOOTING SCHEDULE

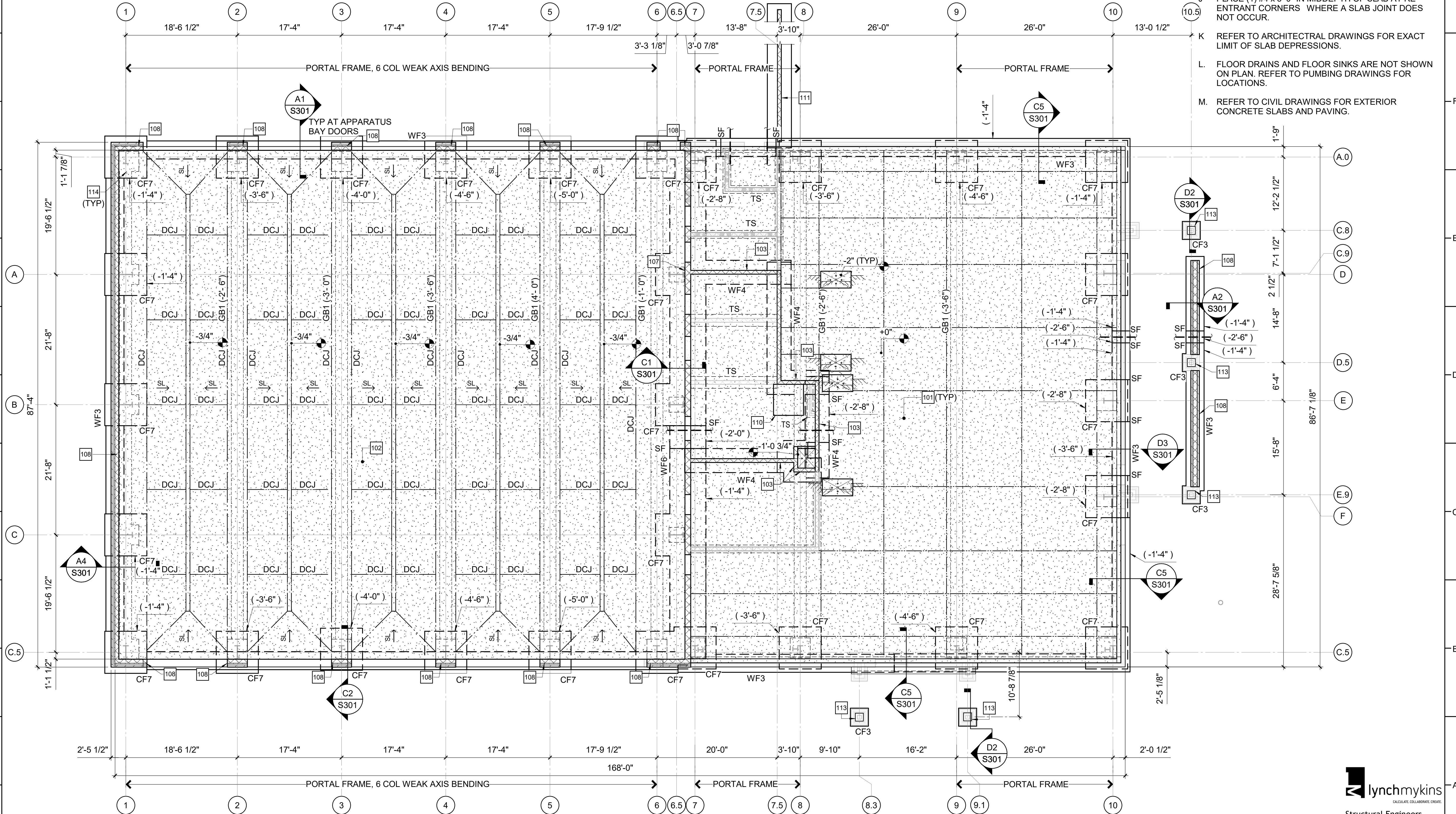
MARK	SIZE		REINFORCING	
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE
WF3	3'-0"	1'-0"	(4) #5 BOT	#5 AT 24" OC
WF4	4'-0"	1'-0"	(5) #5 BOT	#5 AT 24" OC
WF6	6'-0"	1'-0"	(7) #5 BOT	#5 AT 12" OC

COLUMN FOOTING SCHEDULE

MARK	SIZE			REINFORCING		REMARKS
	LENGTH	WIDTH	DEPTH	BOTTOM	TOP	
CF3	3'-0"	3'-0"	1'-0"	(4) #5 EW	(4) #5 EW	-
CF7	7'-0"	7'-0"	2'-6"	(8) #7 EW	(8) #7 EW	-

GRADE BEAM SCHEDULE

MARK	SIZE			REINFORCING		
	WIDTH	DEPTH	BOTTOM	TOP	MID	STIRRUPS
GB1	1'-6"	1'-0"	(3) #5	(3) #5	(2) #5	#3 AT 12" OC



1 FOUNDATION AND SLAB PLAN
1/8" = 1'-0"



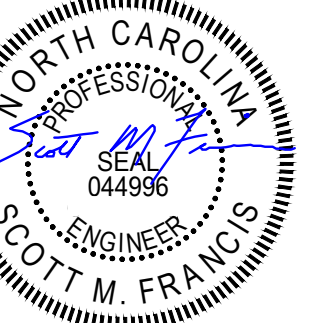
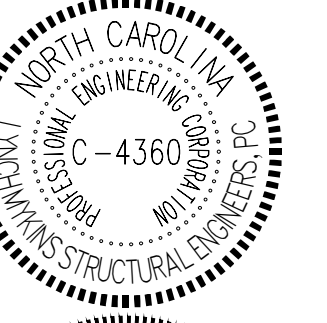
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PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
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Table with 2 columns: Description, Date

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SHEET TITLE

EQUIPMENT PLATFORM FRAMING PLAN

S121

KEY NOTES

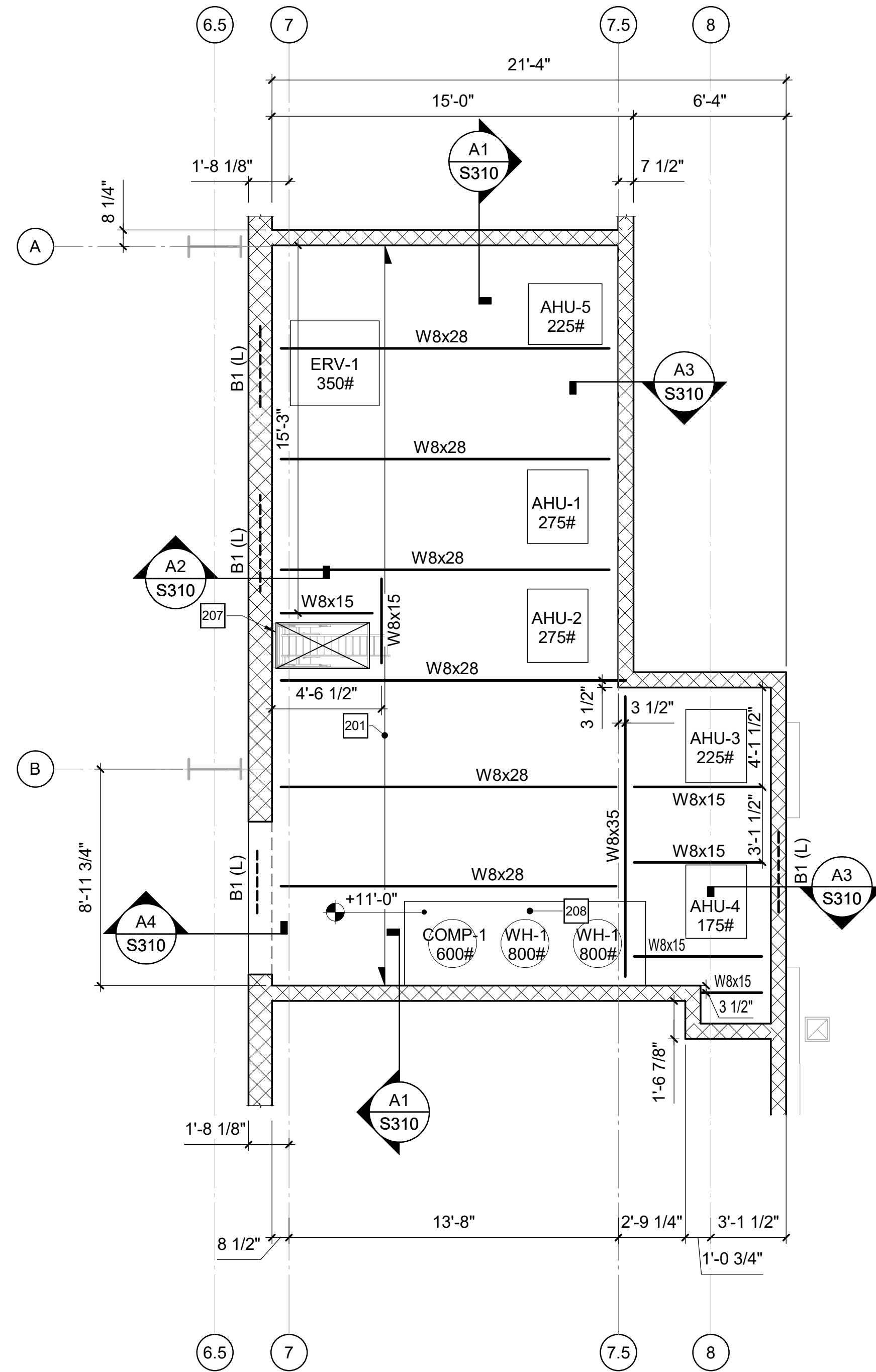
- 201 2" CONCRETE SLAB ON 2" COMPOSITE FLOOR DECK (4" TOTAL) REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE REINFORCING LOCATED 1" CLEAR BELOW TOP OF SLAB.
207 PRE-FABRICATED LADDER AND ATTACHMENT BY OTHERS. GROUT CMU SOLID AT LADDER ATTACHMENT.
208 4" CONCRETE EQUIPMENT PAD. REFERENCE PLUMBING DRAWINGS.

BOND BEAM LINTEL SCHEDULE (NON-TYPICAL)

Table with columns: MARK, DEPTH 'D', REINFORCING (8" CMU, 12" CMU). Row B1 shows 16" depth with (2) #4 BOT for 8" CMU and (2) #5 BOT for 12" CMU.

FRAMING PLAN NOTES

- A. REFERENCE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
B. STEEL BEAM FRAMING MUST BE EQUALLY SPACED BETWEEN POINTS OF UNKNOWN DIMENSIONS (NOT TO EXCEED 6'-0" ON-CENTER).
C. CONCRETE ON ELEVATED METAL DECKS MUST BE POURED TO THE THICKNESS INDICATED. A MAXIMUM OF 1/2" ADDITIONAL CONCRETE BEYOND SPECIFIED THICKNESS IS PERMITTED.
D. CONTRACTOR MUST INCLUDE IN THEIR BID THE COST TO PLACE THE SLAB TO FINISHED FLOOR ELEVATION ACCOUNTING FOR ANTICIPATED SLAB AND BEAM DEFLECTIONS.
E. TOP OF SLAB ELEVATION = 11'-0", UNLESS OTHERWISE NOTED.
F. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT PURCHASED.



1 EQUIPMENT PLATFORM FRAMING PLAN

1/4" = 1'-0"



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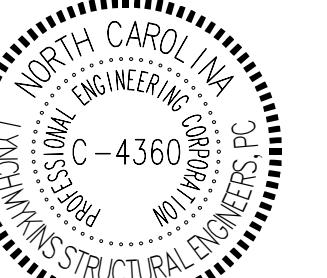
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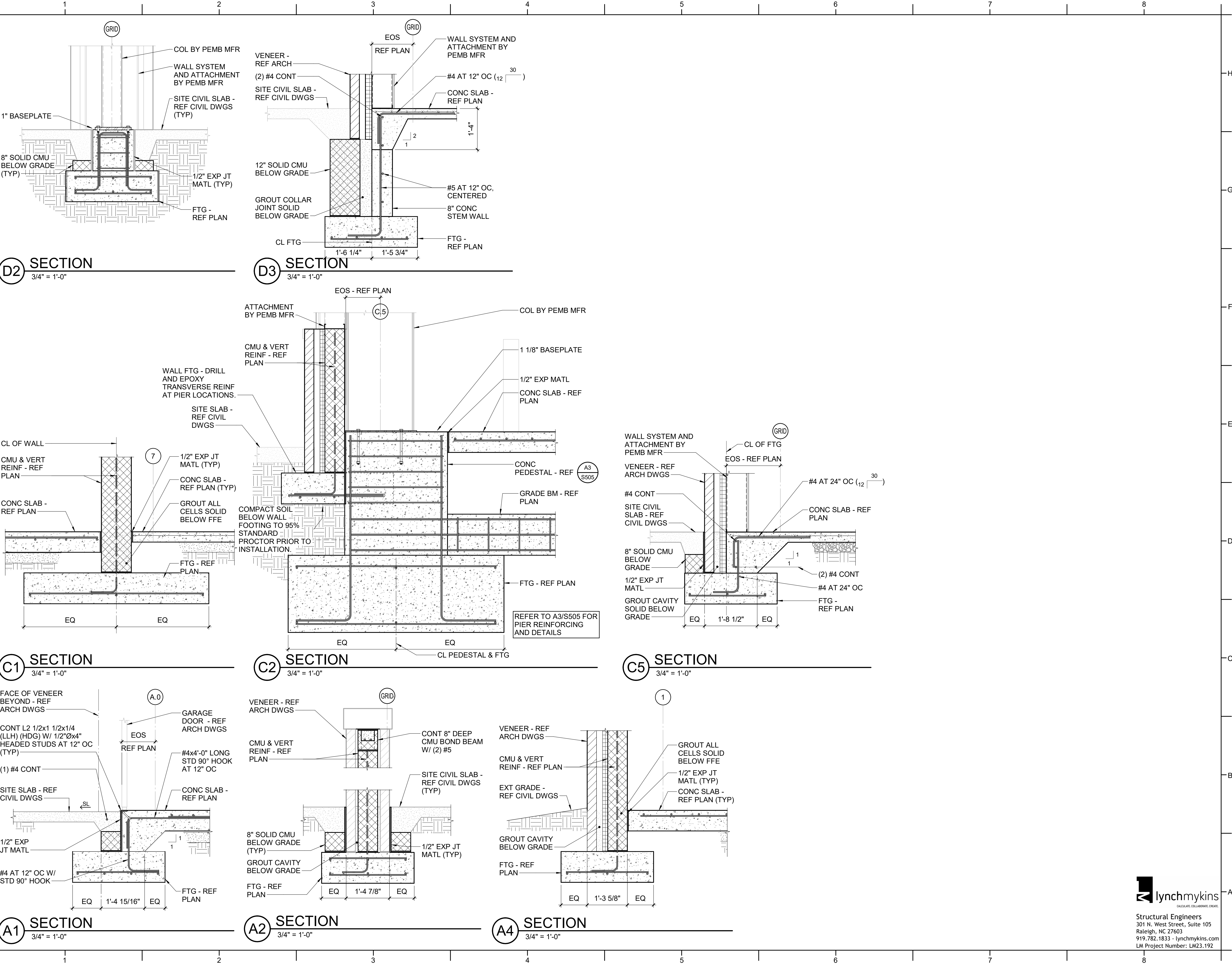
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SHEET TITLE
SECTIONS

S301



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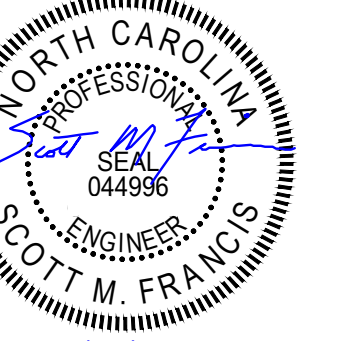
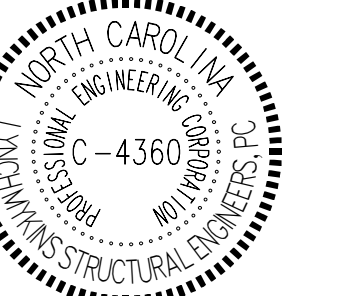
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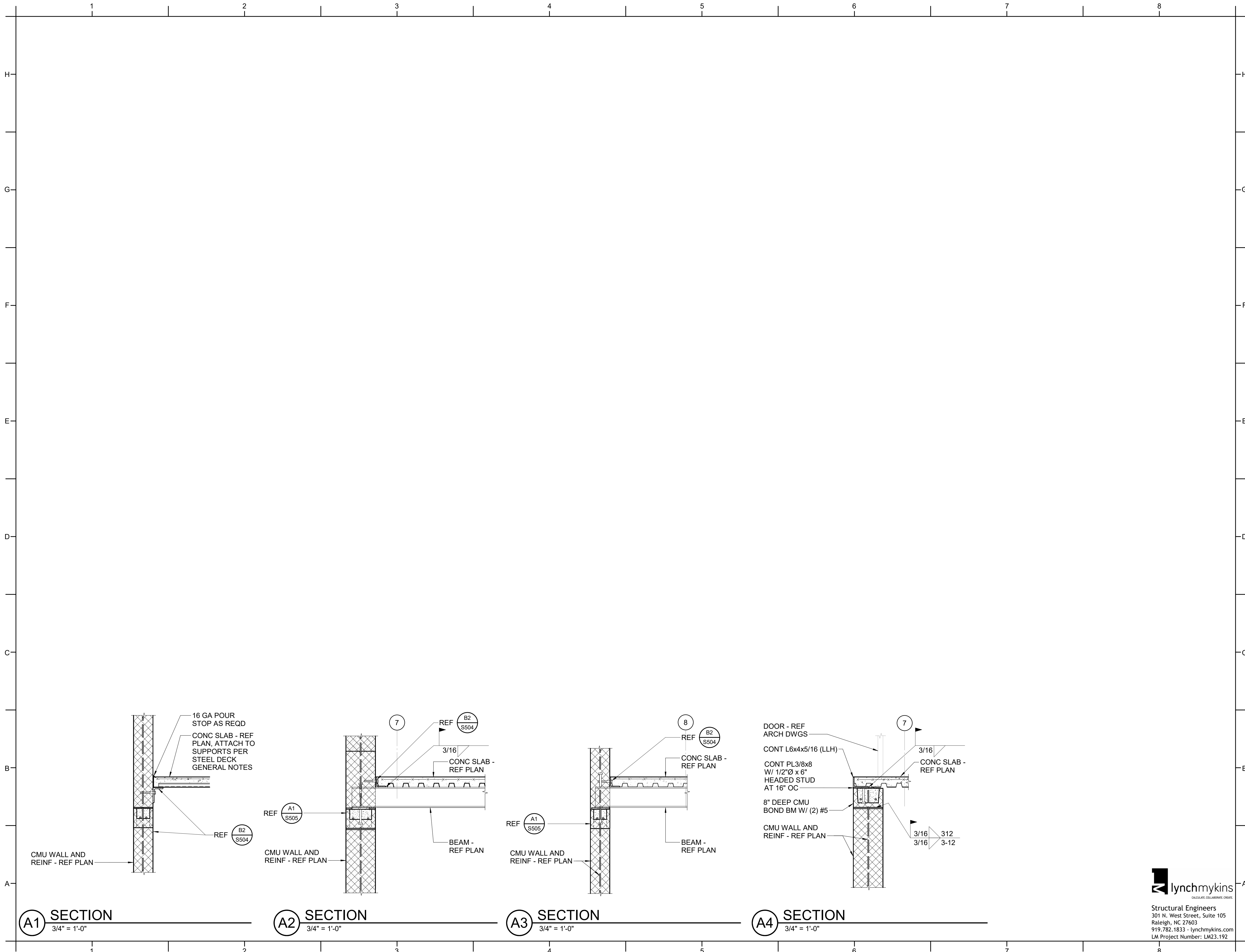
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SHEET TITLE
SECTIONS

S310



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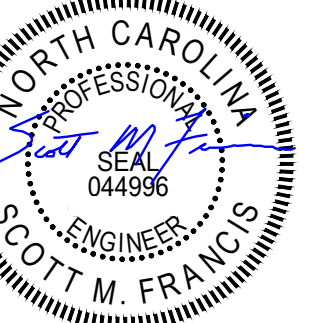
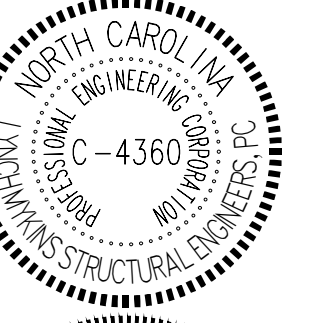
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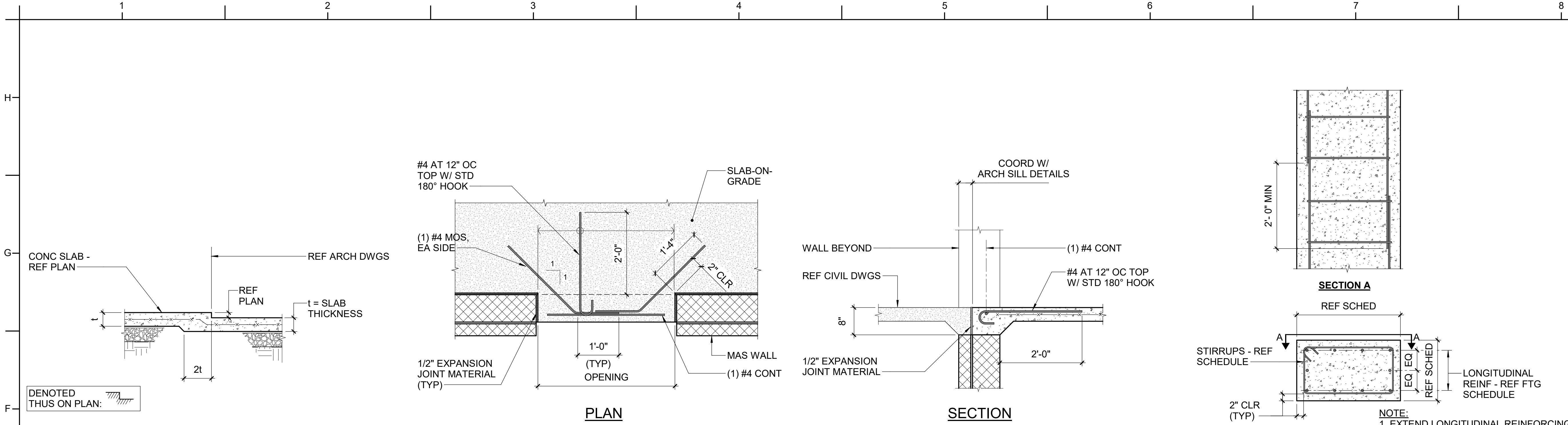
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SHEET TITLE
TYPICAL DETAILS

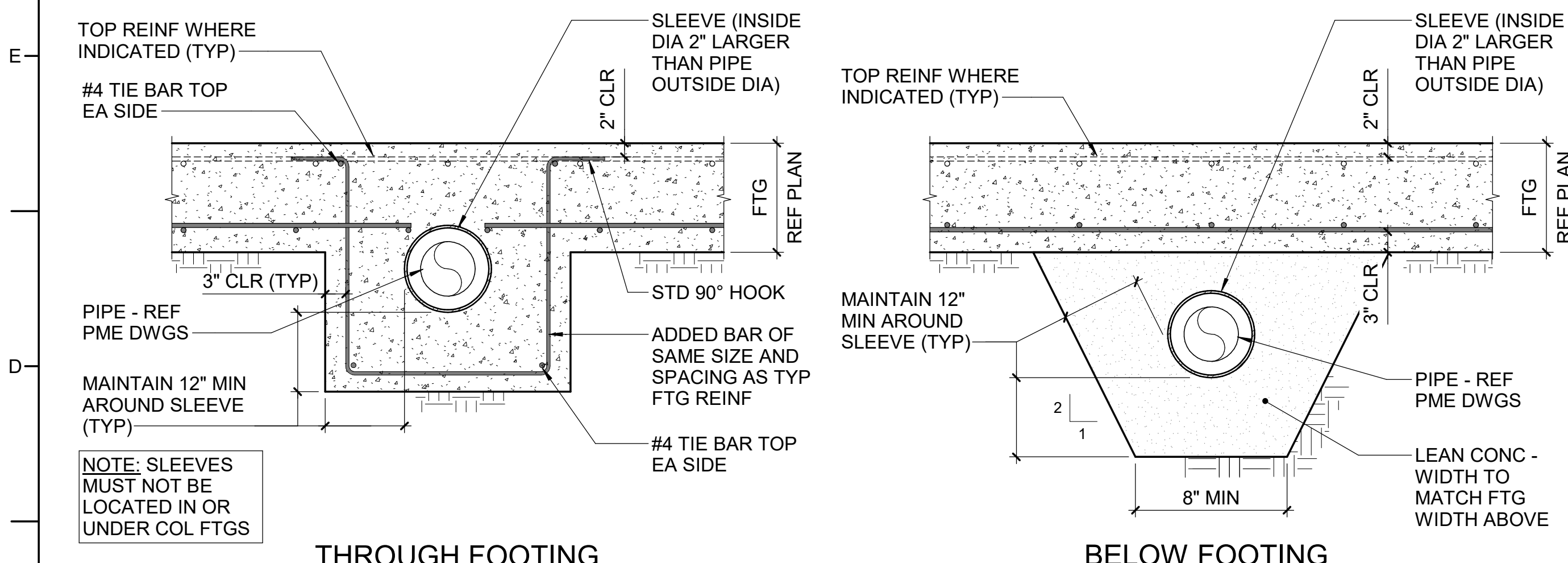
S501



F1 TYPICAL DEPRESSED SLAB DETAIL
NTS

F2 TYPICAL EXTERIOR DOORS / OPENINGS DETAIL
NTS

F4 TYPICAL GRADE BEAM DETAIL
NTS

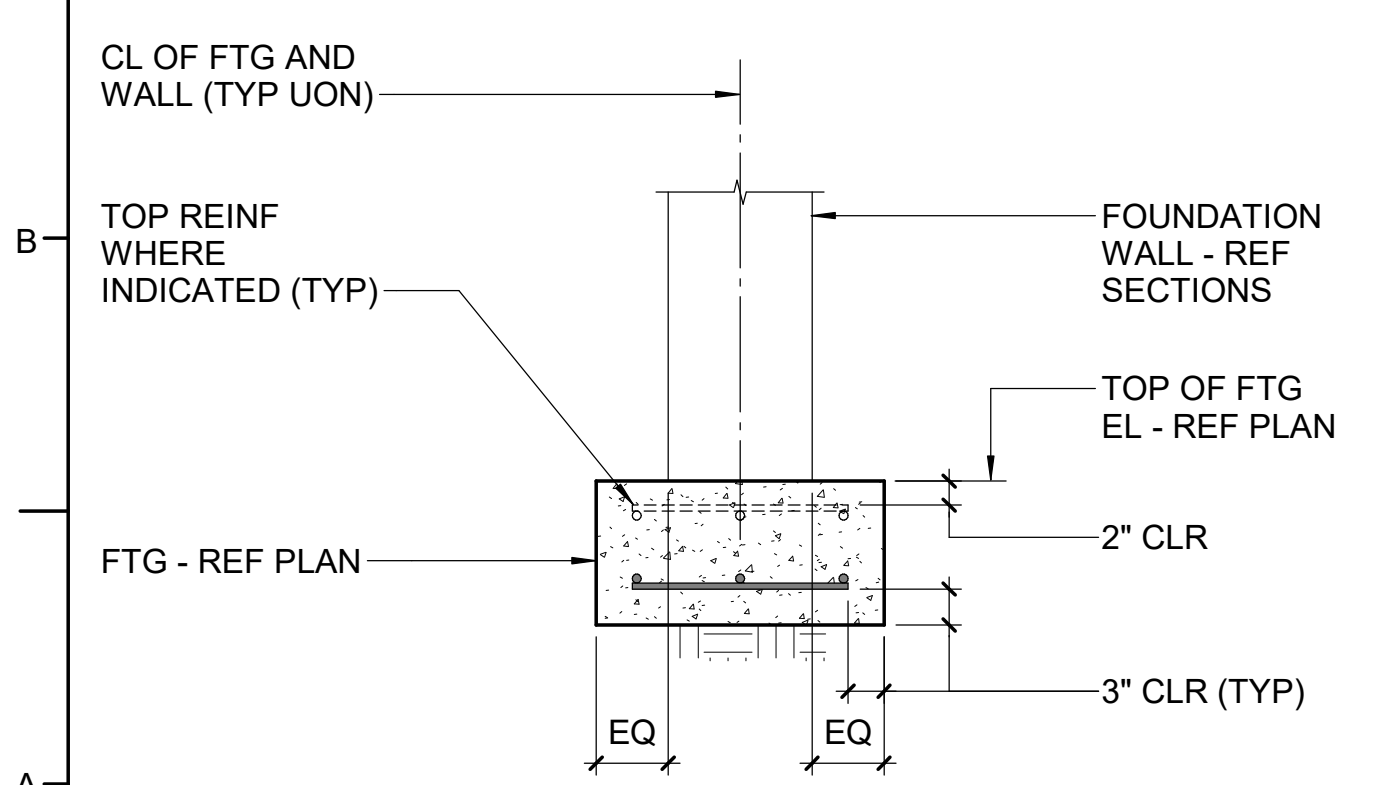


C1 TYPICAL PIPE SLEEVE AT WALL FOOTING DETAILS
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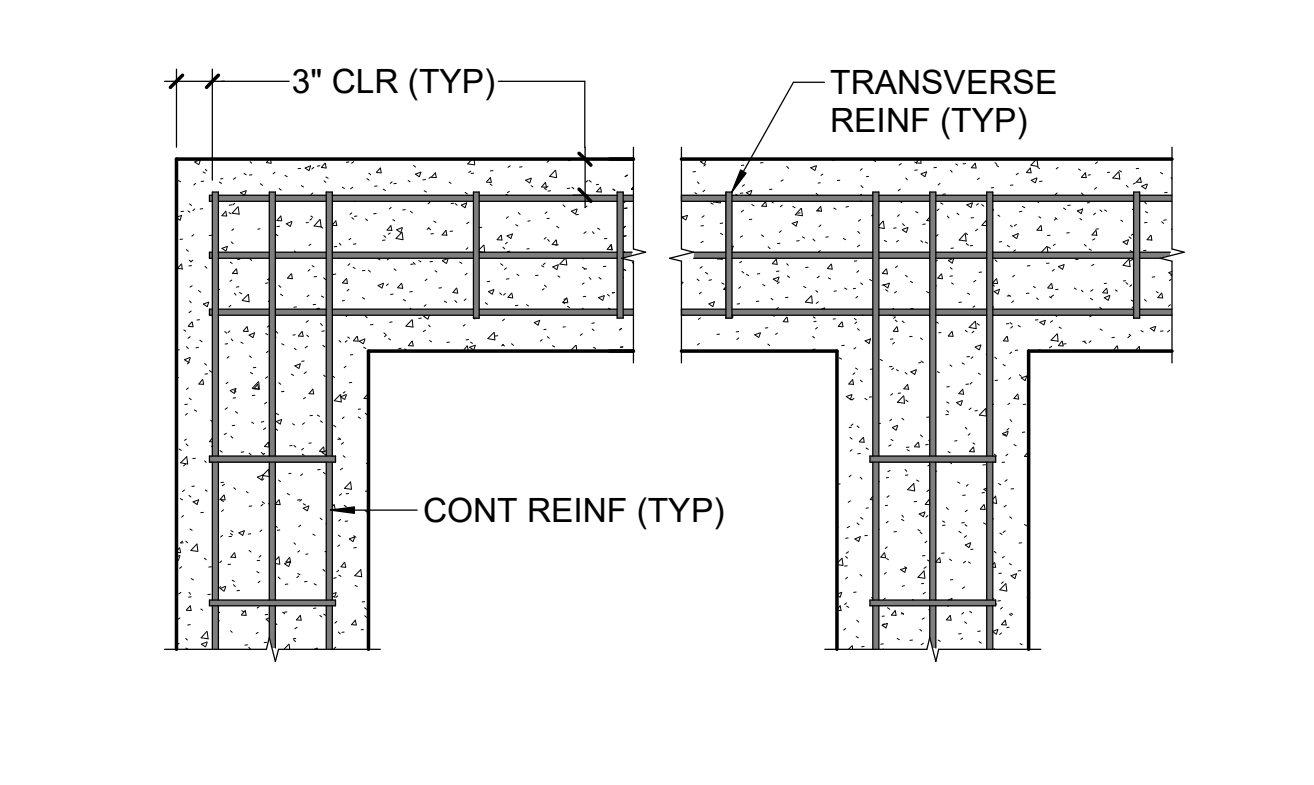
C3 TYPICAL SAWED JOINT DETAIL
NTS



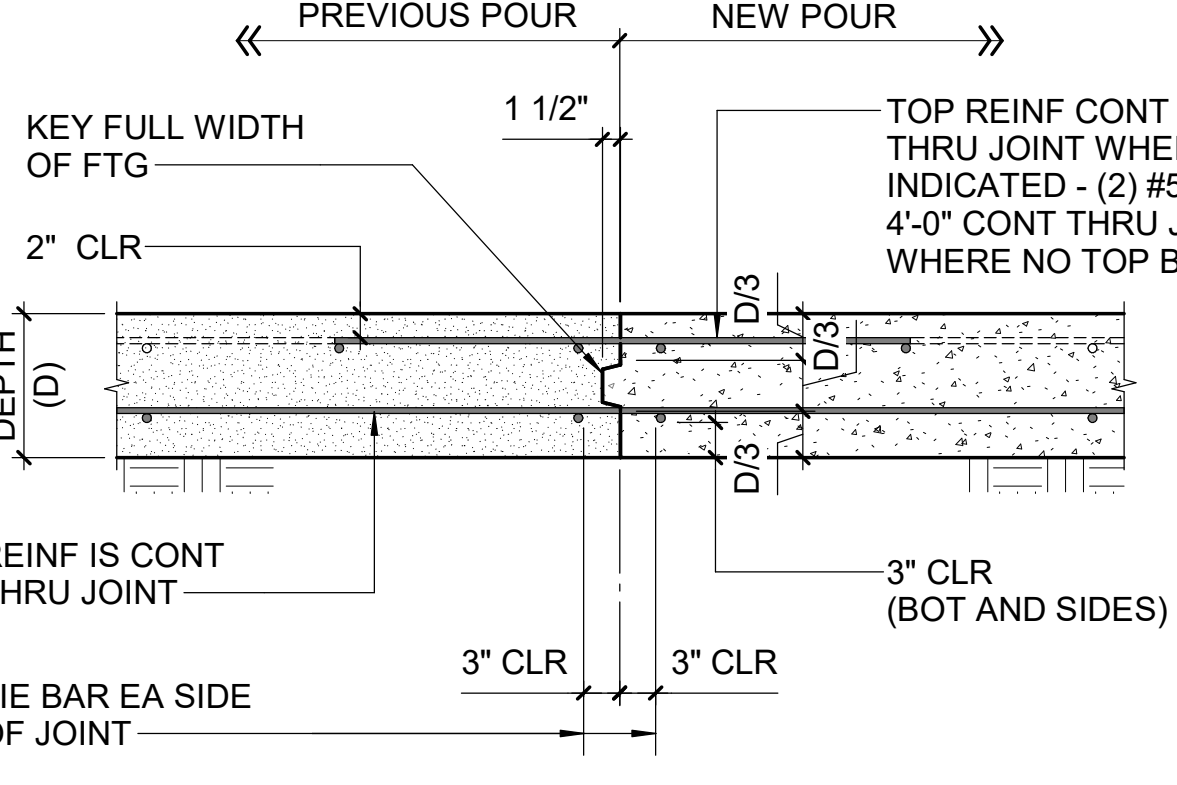
C4 TYPICAL KEYED CONSTRUCTION JOINT DETAIL
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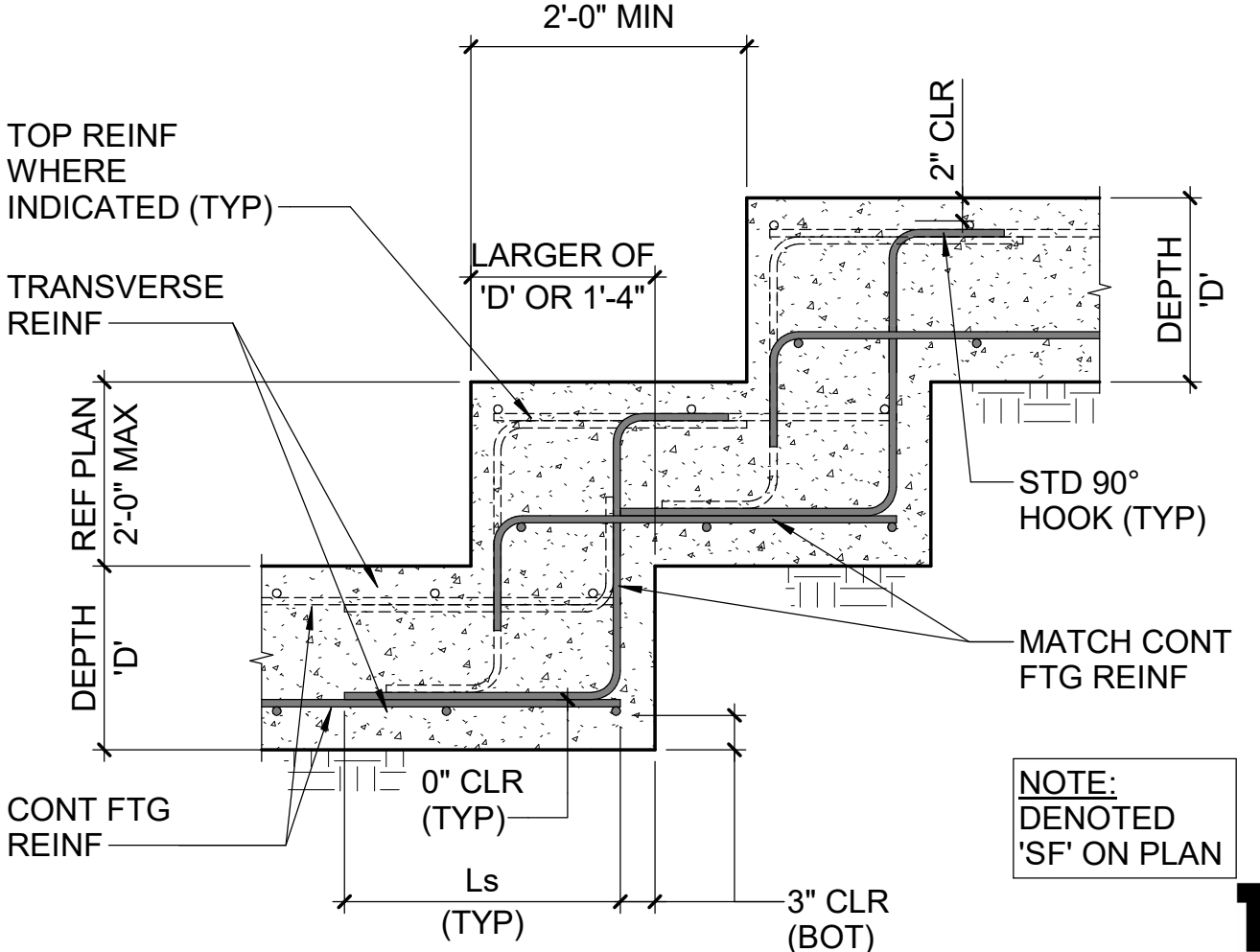
A1 TYPICAL WALL FOOTING DETAIL
NTS



A2 TYPICAL WALL FOOTING CORNER & INTERSECTION DETAILS
NTS



A3 TYPICAL WALL FOOTING CONSTRUCTION JOINT DETAIL
NTS



A4 TYPICAL STEPPED WALL FOOTING DETAIL
NTS

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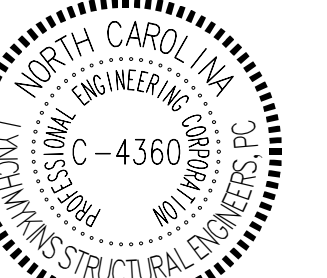
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PROJECT INFORMATION

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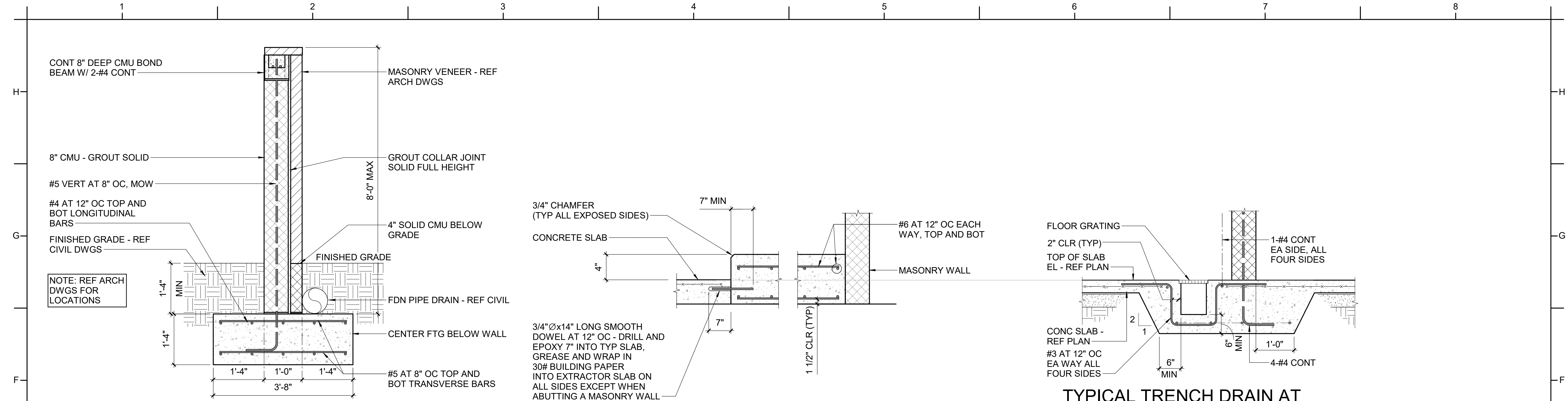
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SHEET TITLE TYPICAL DETAILS

S502

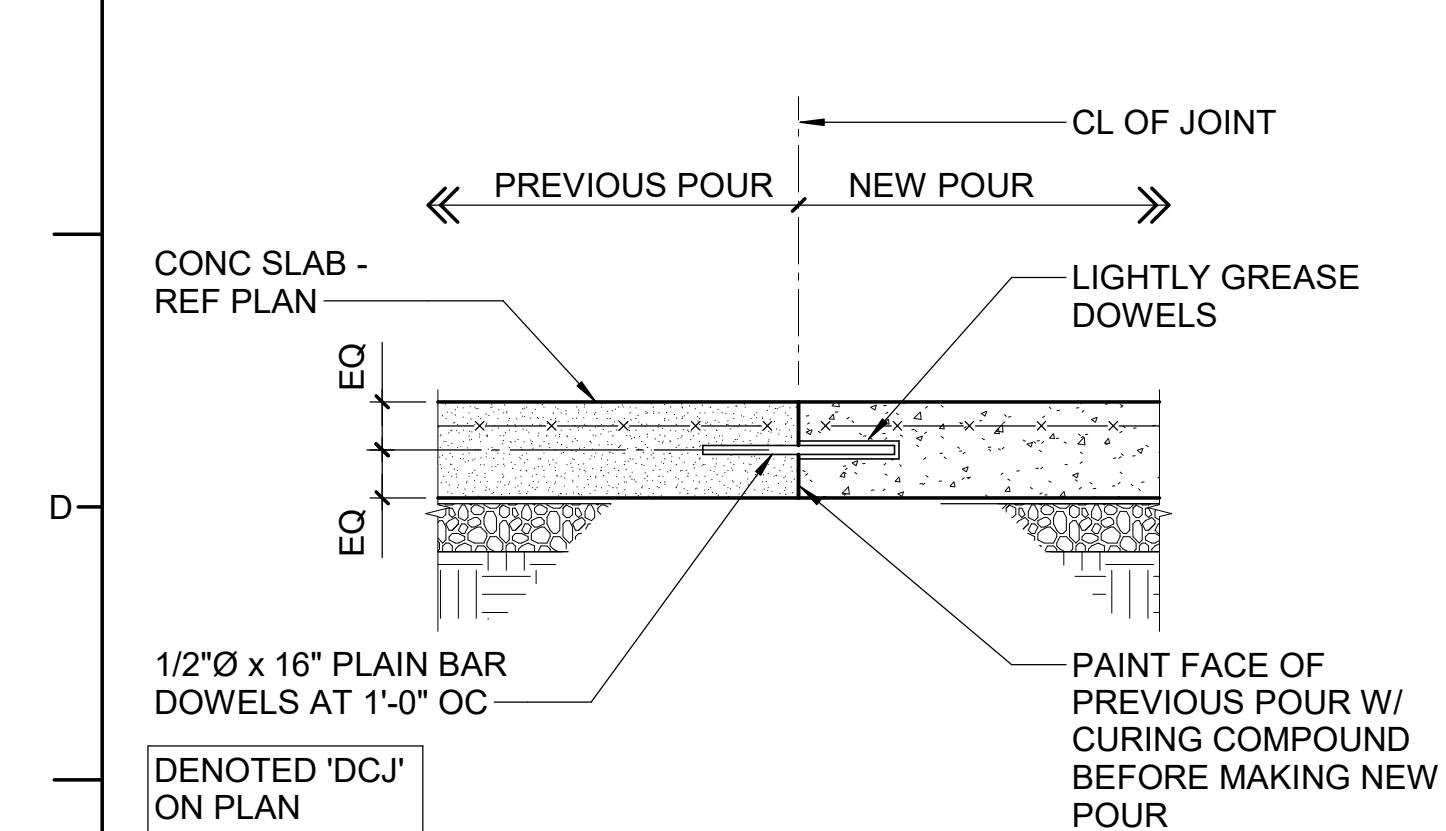


F1 TYPICAL SCREENWALL DETAIL NTS

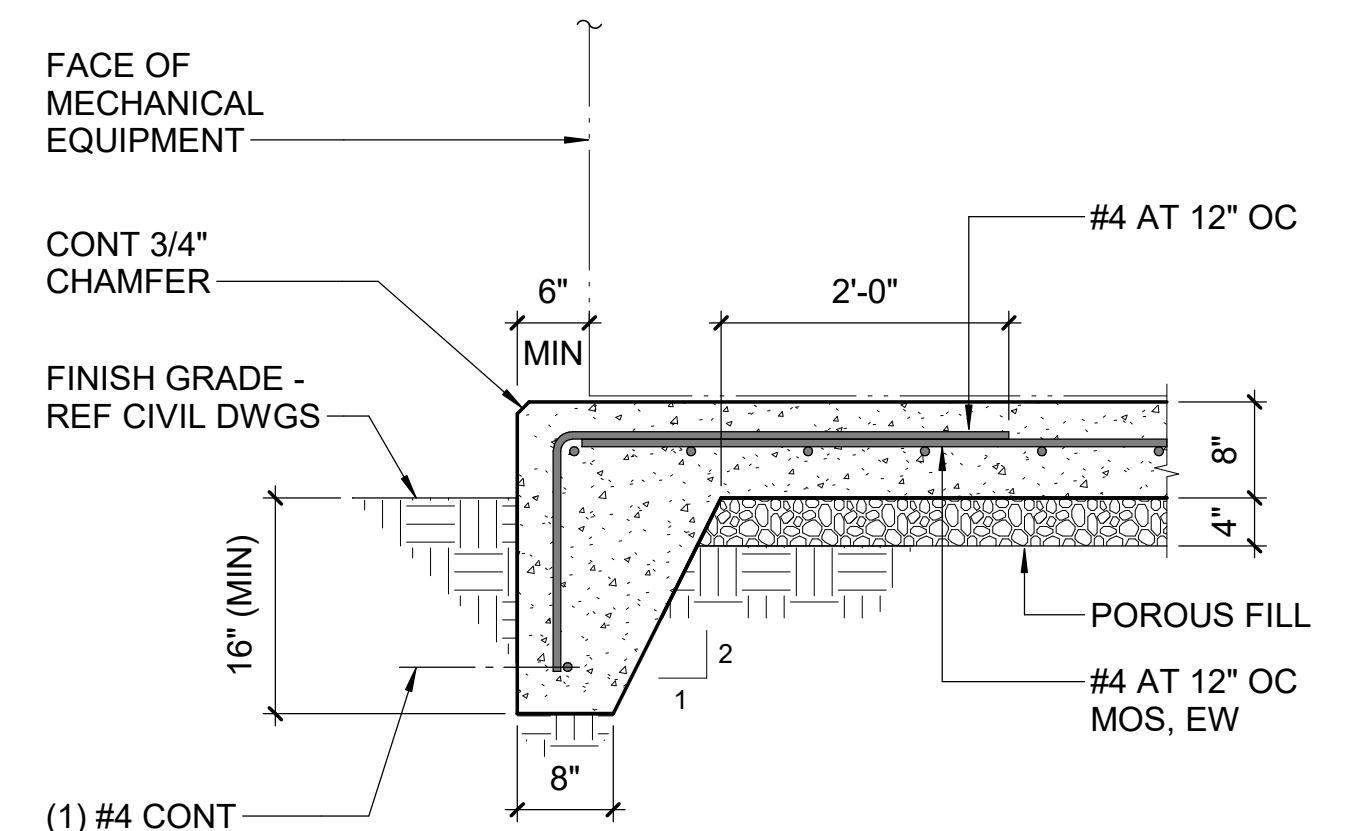
F4 TYPICAL FOUNDATION AT EXTRACTOR PAD DETAIL NTS

F6 TYPICAL TRENCH DRAIN AT EXTRACTOR DETAIL NTS

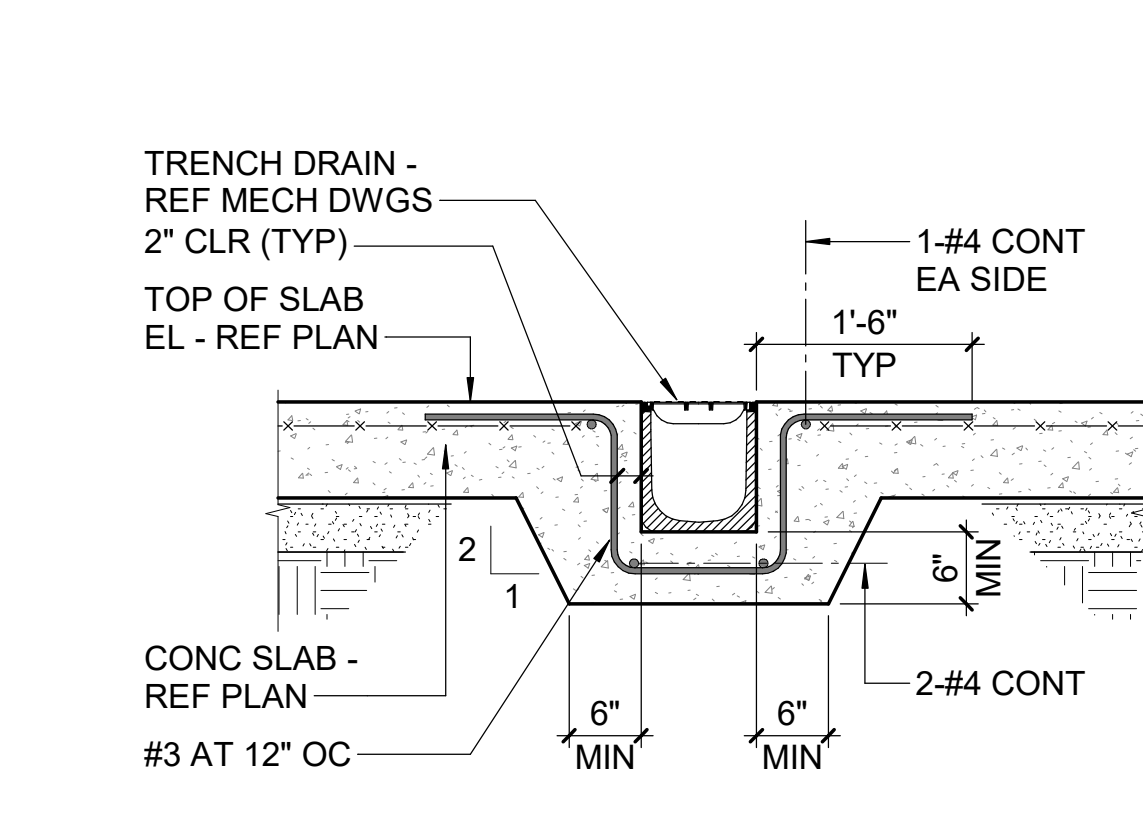
NOTES:
1. REF MECHANICAL/CIVIL DRAWINGS FOR DIMENSIONS AND LOCATION OF CONCRETE PAD.
2. COORDINATE ANY REQUIRED ANCHORAGE EMBEDS NEEDED FOR THE EQUIPMENT PLACED ON PAD.



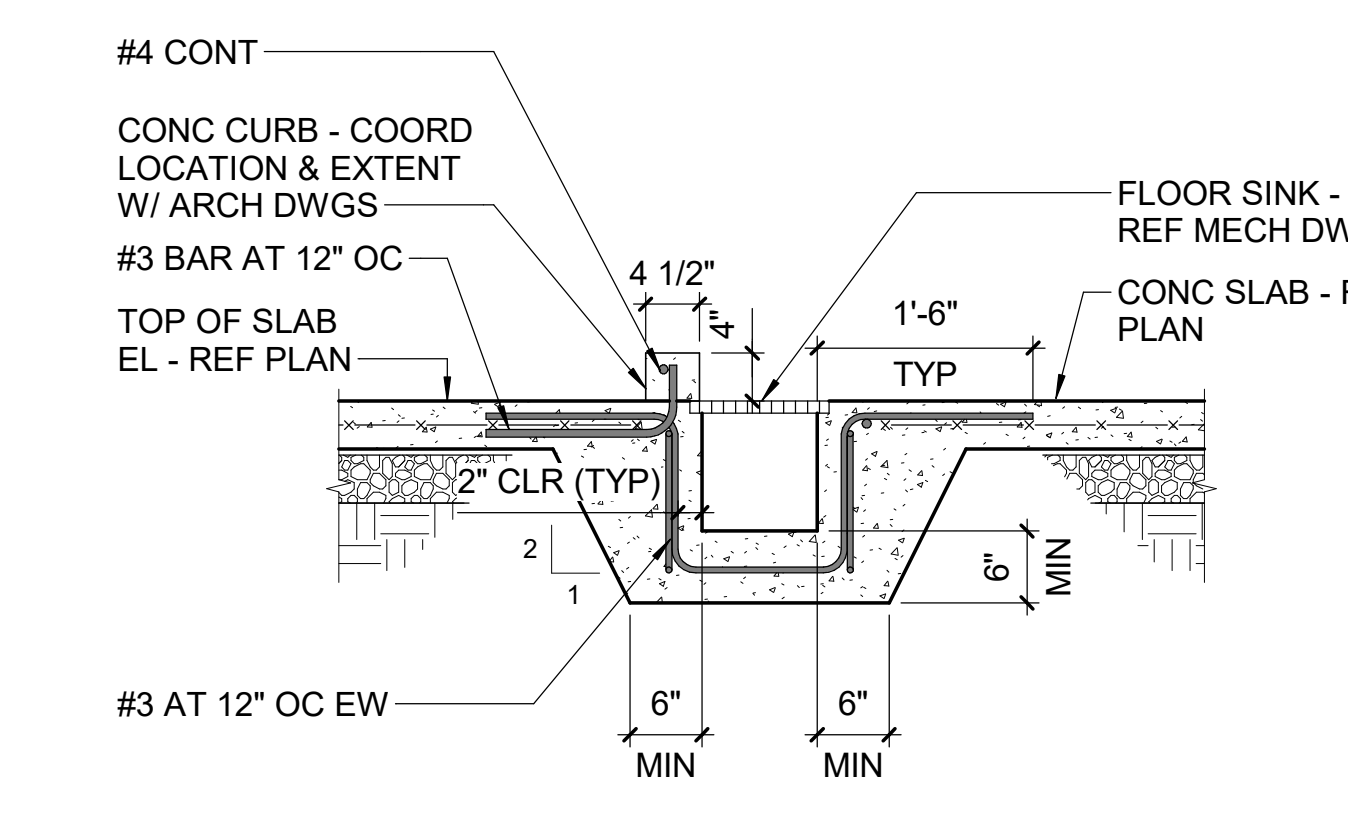
A6 TYPICAL DOWELED CONSTRUCTION JOINT DETAIL NTS



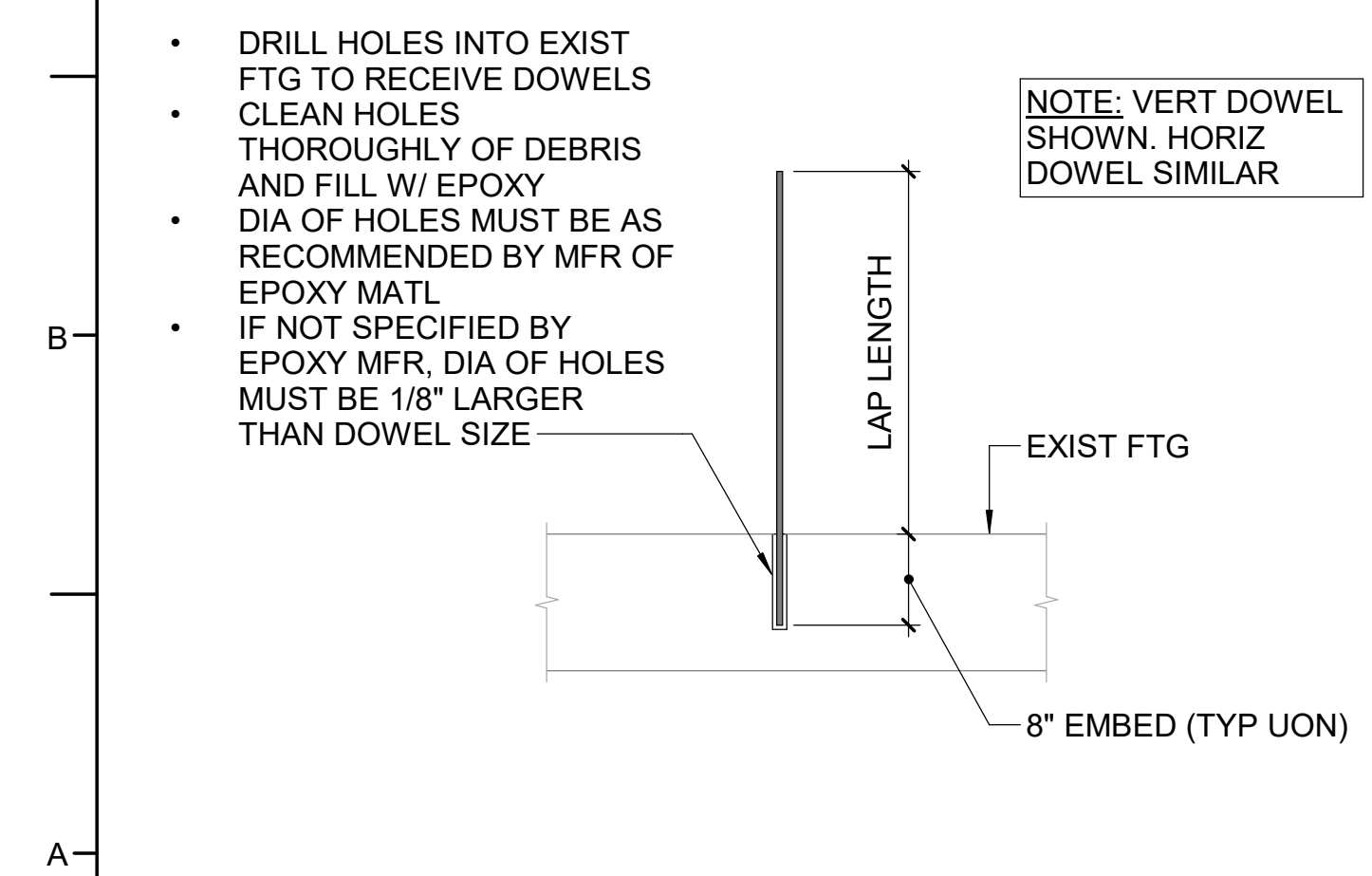
D1 TYPICAL EXTERIOR EQUIPMENT PAD DETAIL NTS



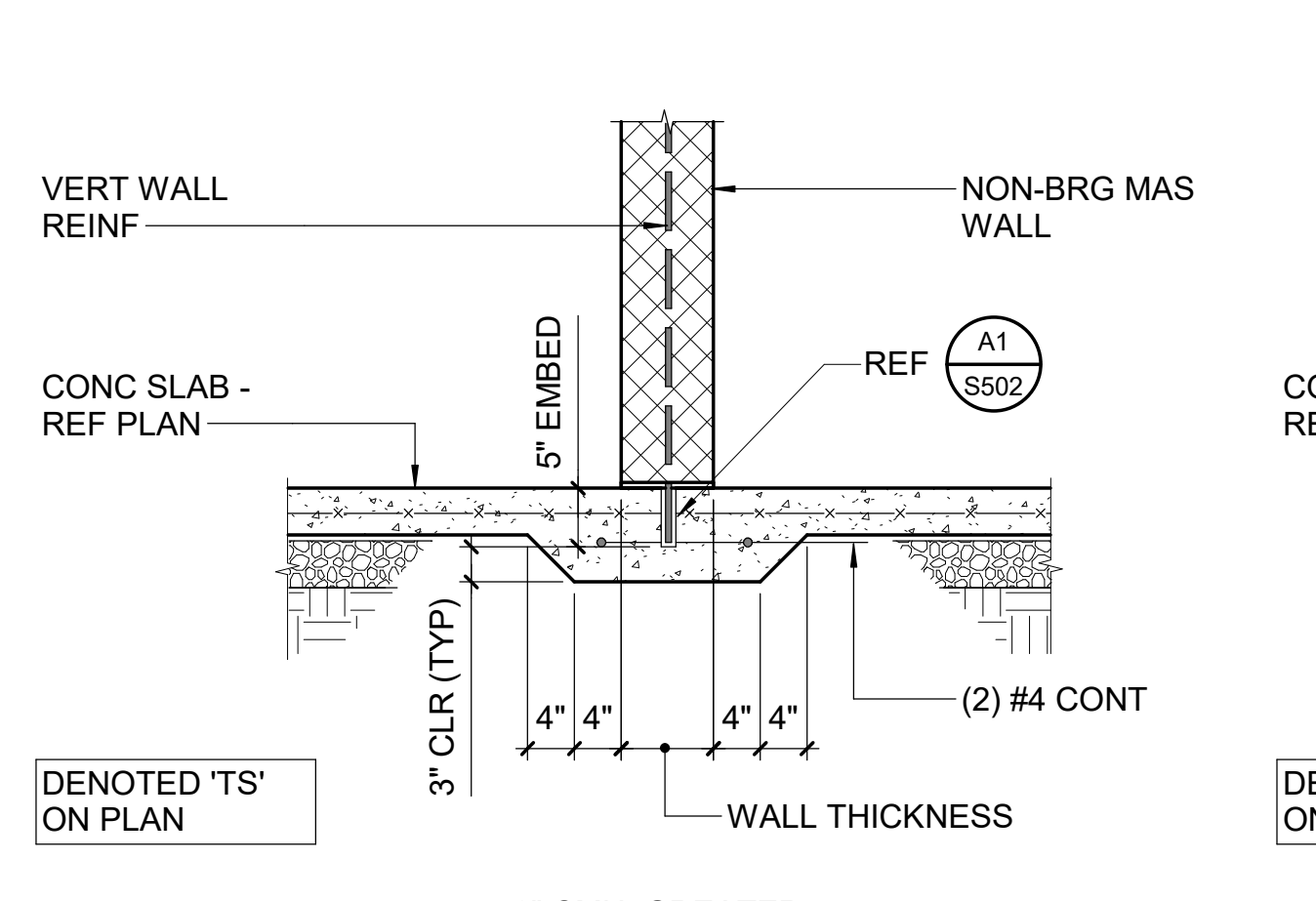
D3 TYPICAL TRENCH DRAIN AT APPARATUS BAY DETAIL NTS



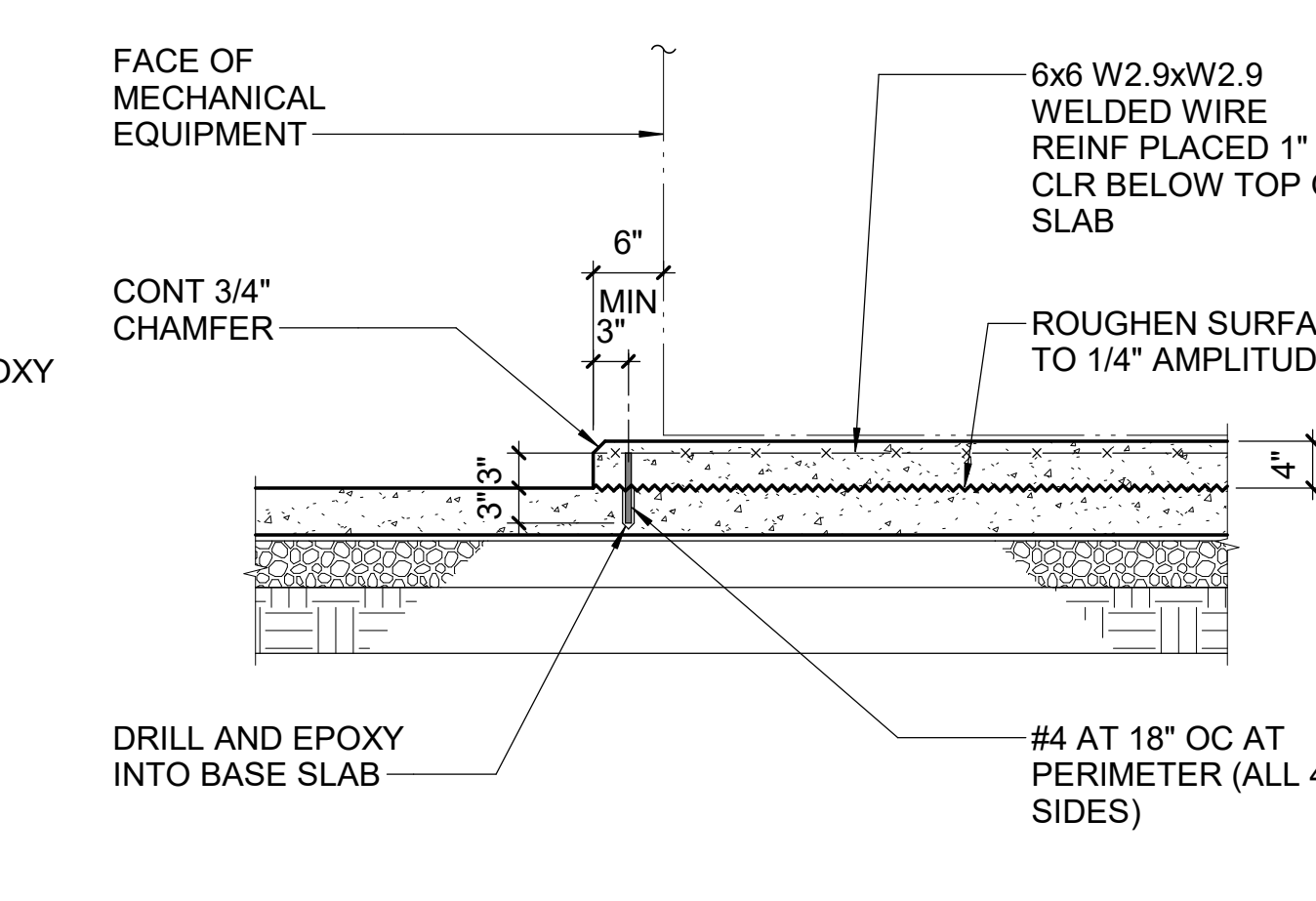
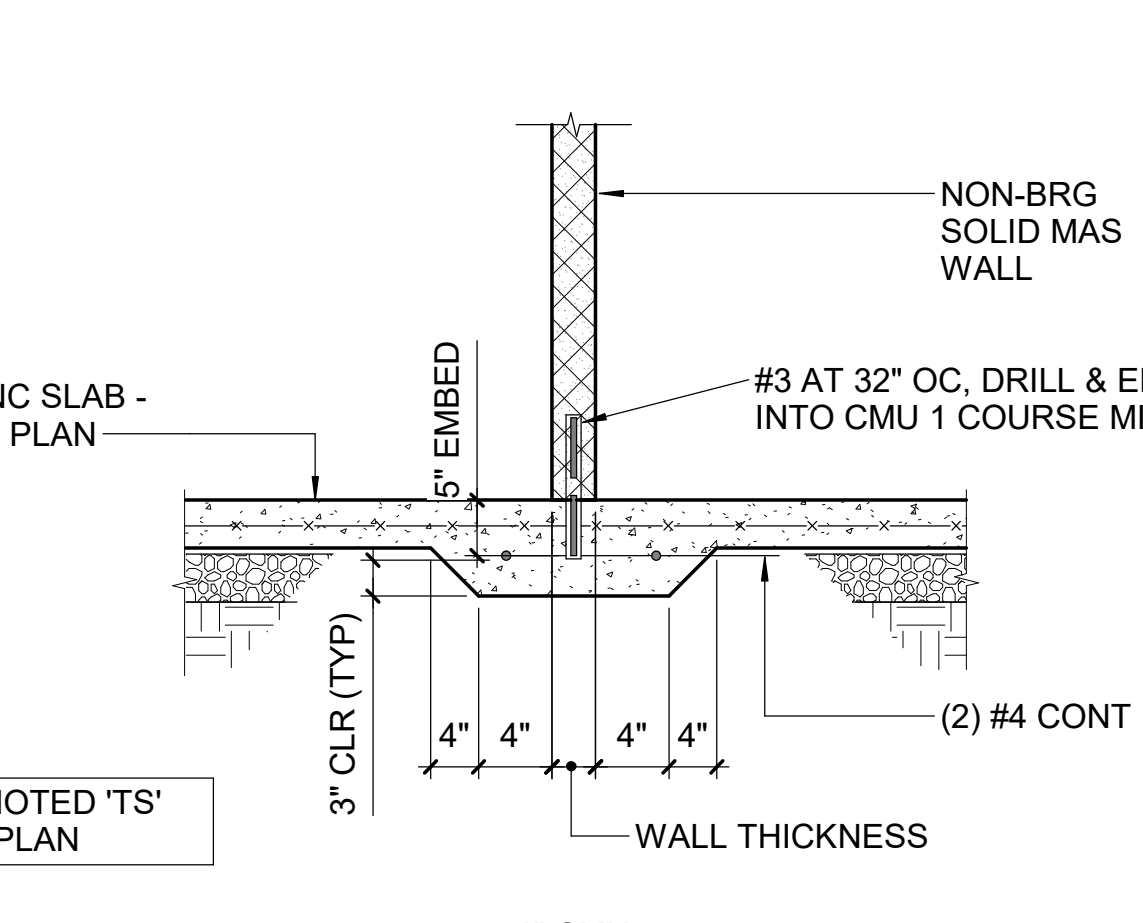
D5 TYPICAL FLOOR SINK DETAIL NTS



A1 TYPICAL EPOXY DOWEL DETAIL NTS



A3 TYPICAL THICKENED SLAB DETAIL NTS



A5 TYPICAL HOUSEKEEPING PAD DETAIL NTS

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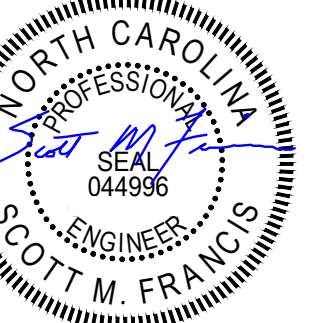
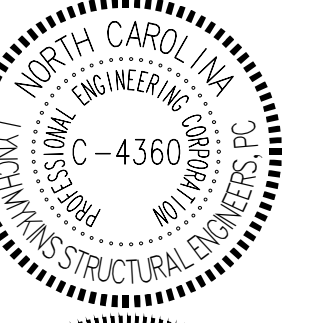
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PROJECT INFORMATION

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID NO. 102-25C
OLD SAND RIDGE RD. HUBERT, NC 28539

SEALS



03/12/2025

DKA JOB NUMBER

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REVISIONS

NO.	DESCRIPTION

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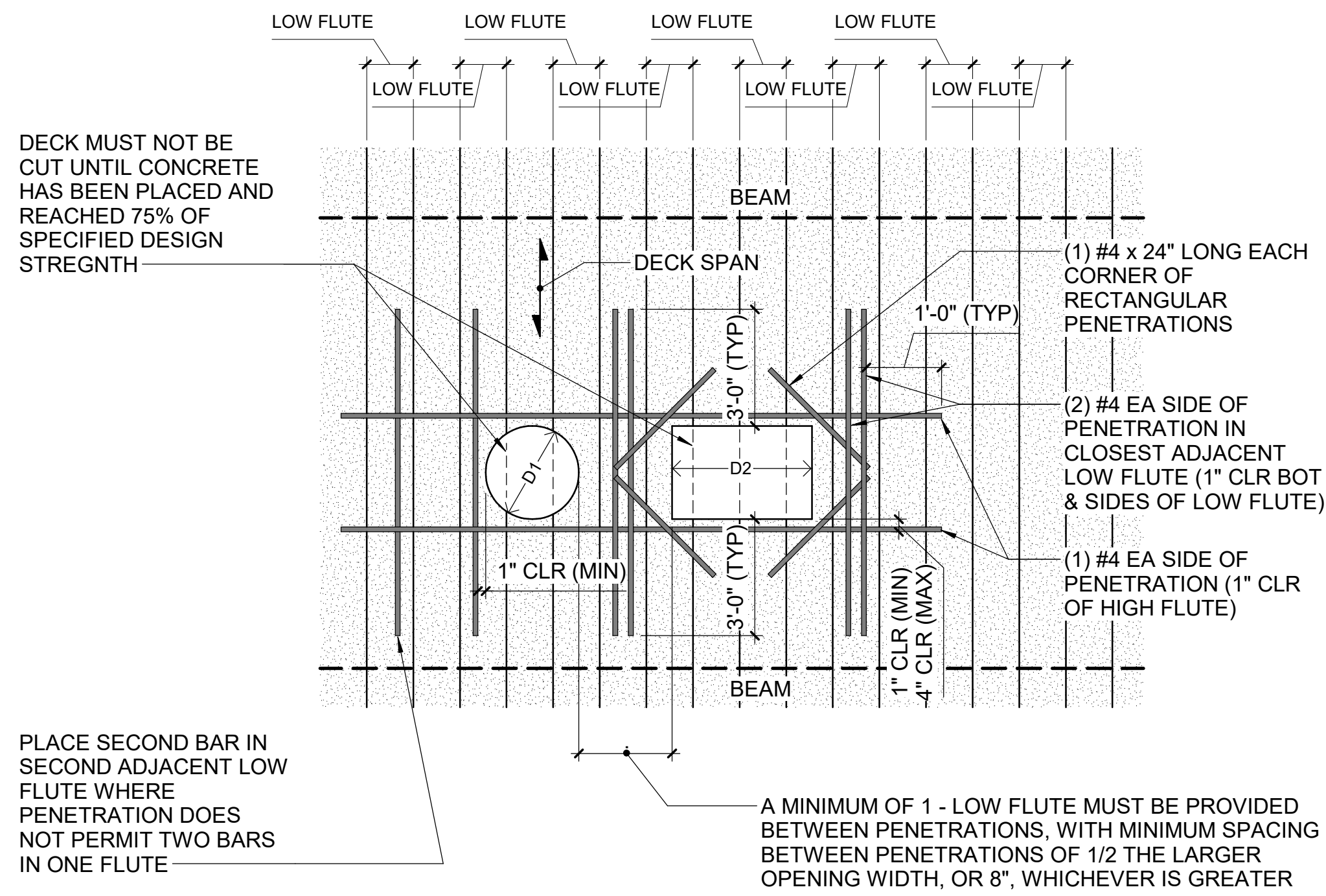
BID DOCUMENTS
3/12/2025

SHEET TITLE
TYPICAL DETAILS

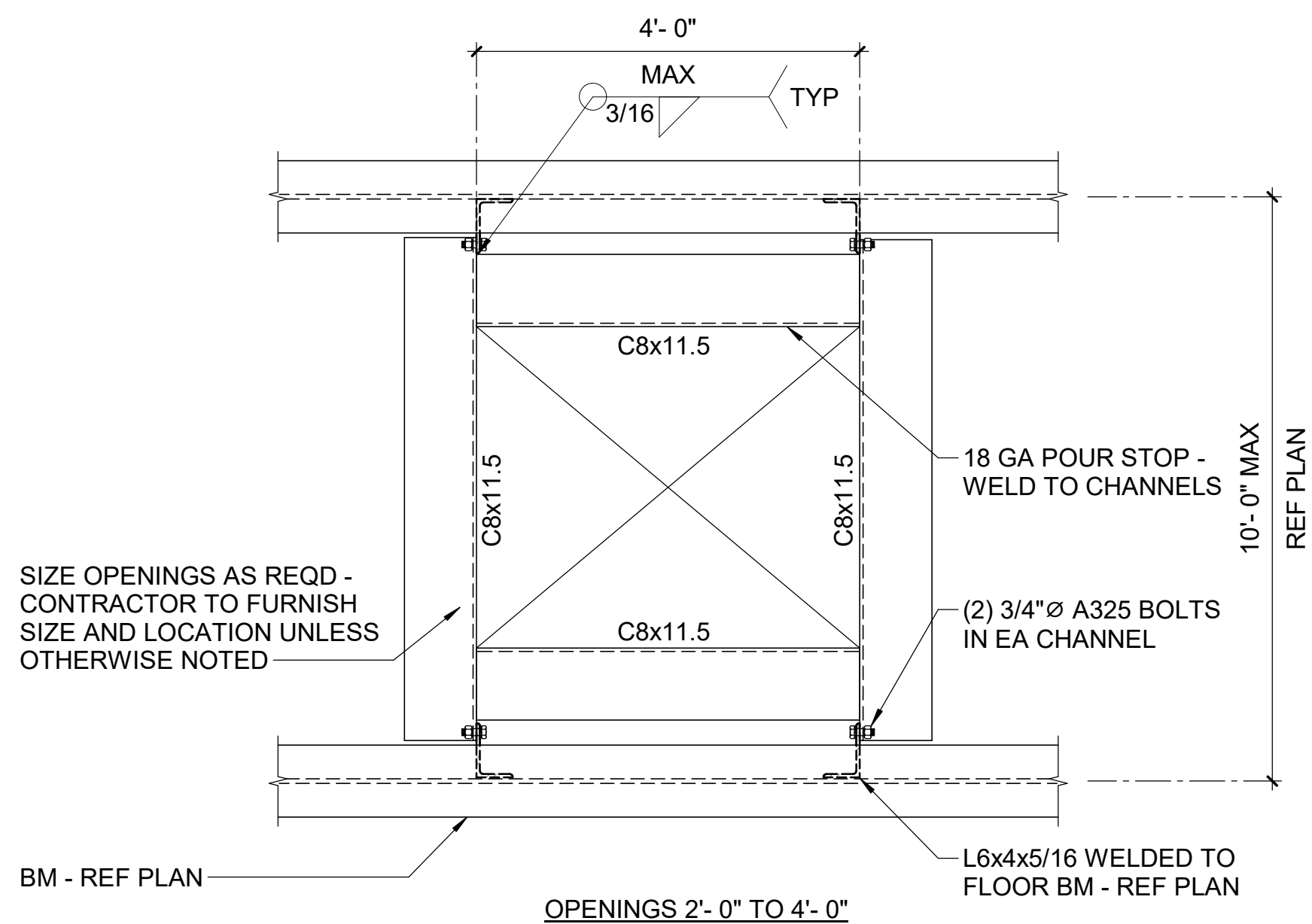
S503

NOTES:

- 1. SEE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND SIZE OF FLOOR PENETRATIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL FRAMING PLANS.
- 2. PENETRATIONS, GREATER THAN 6", BUT LESS THAN OR EQUAL TO 24" IN ANY DIRECTION ARE PERMITTED IN THE ELEVATED SLAB ON METAL DECK WITHOUT ADDITIONAL STRUCTURAL STEEL FRAMING, PROVIDED THE SLAB IS REINFORCED AS INDICATED BELOW.
- 3. A MINIMUM OF (1) LOW FLUTE MUST BE PROVIDED BETWEEN PENETRATIONS, WITH MINIMUM SPACING BETWEEN PENETRATIONS OF 1/2 THE LARGER OPENING WIDTH, OR 8", WHICHEVER IS GREATER.



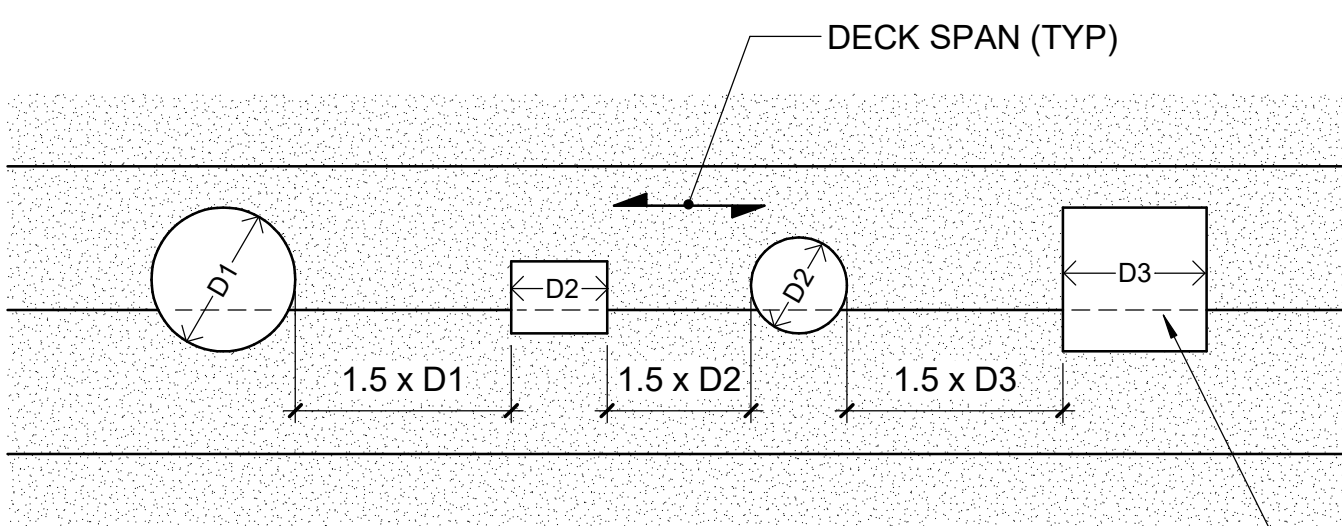
C1 TYPICAL SPACING REQUIREMENTS FOR FLOOR PENETRATIONS 6" OR WIDER



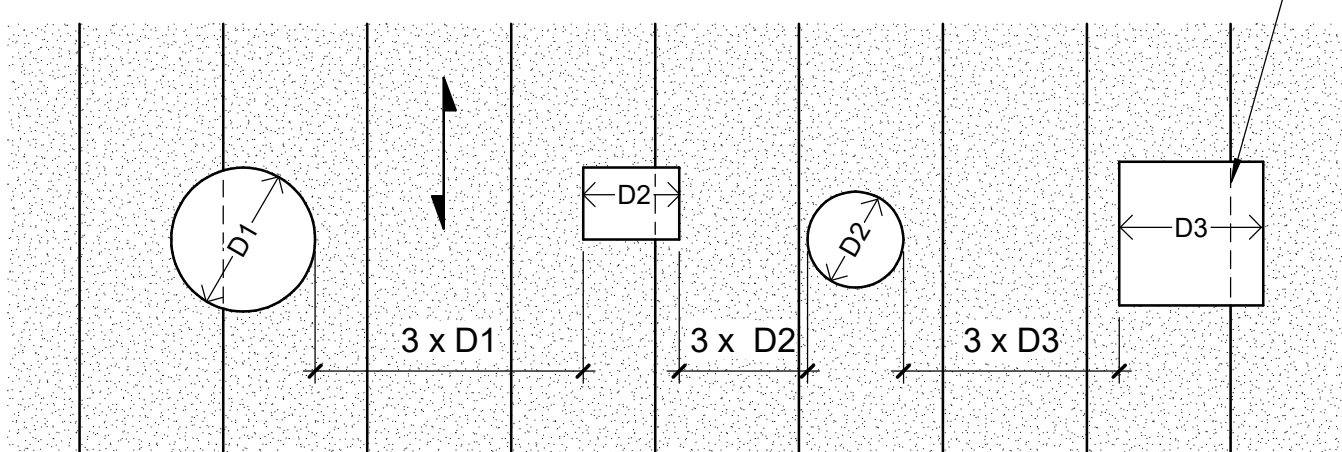
B4 TYPICAL ELEVATED SLAB DETAILS

NOTES:

- 1. SEE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND SIZE OF FLOOR PENETRATIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL FRAMING PLANS.
- 2. PENETRATIONS, LESS THAN OR EQUAL TO 6" IN ANY DIMENSION MUST BE PERMITTED IN THE ELEVATED SLAB ON METAL DECK WITHOUT REINFORCING, PROVIDED THE SPACING BETWEEN PENETRATIONS DOES NOT EXCEED THE FOLLOWING, AS DEPICTED BELOW:
 - A. WHERE DECK SPAN IS PARALLEL TO THE GROUP OF PENETRATIONS: CLEAR SPACING MUST NOT BE LESS THAN 1.5 TIMES THE WIDTH / DIAMETER OF THE LARGER ADJACENT PENETRATION OR 4", WHICHEVER IS GREATER.
 - B. WHERE DECK SPAN IS PERPENDICULAR TO THE GROUP OF PENETRATIONS: CLEAR SPACING MUST NOT BE LESS THAN 3 TIMES THE WIDTH OF THE LARGER ADJACENT PENETRATION, OR 8", WHICHEVER IS GREATER.
- 3. IF THE SPACING REQUIREMENTS BELOW CANNOT BE MET, THE CONTRACTOR MUST BE PERMITTED TO REINFORCE THE SLAB PER THE TYPICAL FLOOR SLAB REINFORCING DETAIL AT OPENINGS LARGER THAN 6".
- 4. BLOCKOUTS OR DRILLED CORES ARE PERMITTED, HOWEVER, FLOOR DECK MUST REMAIN CONTINUOUS AND NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND HAS REACHED 75% OF IT'S SPECIFIED DESIGN STRENGTH.

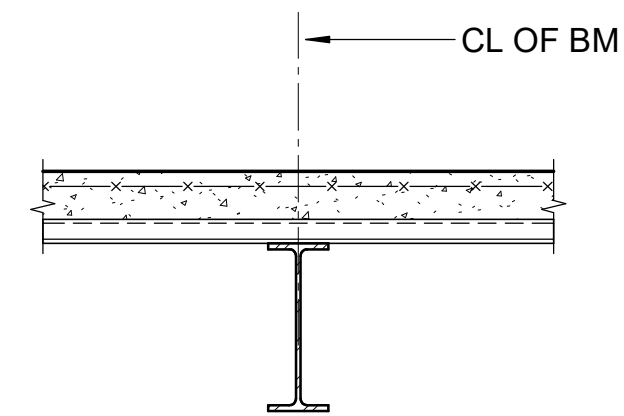


DECK SPAN PARALLEL TO OPENING GROUP

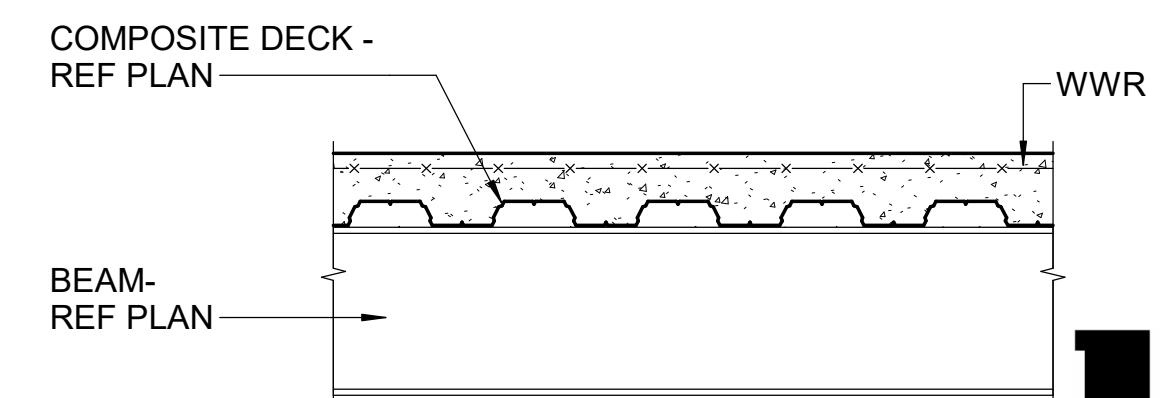


DECK SPAN PERPENDICULAR TO OPENING GROUP

A1 TYPICAL SPACING REQUIREMENTS FOR FLOOR PENETRATIONS 6" WIDE OR LESS



PERPENDICULAR



TYPICAL COMPOSITE BEAM PROFILE

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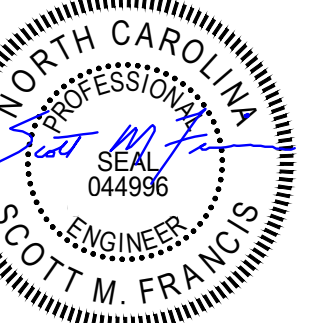
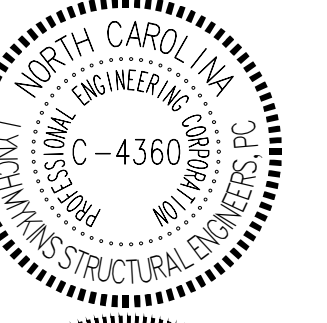
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PROJECT INFORMATION

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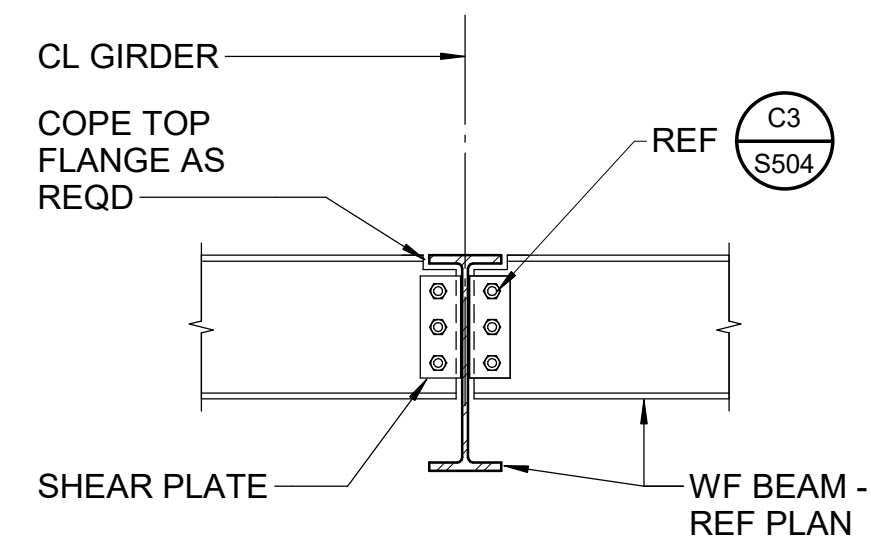
SHEET TITLE

TYPICAL DETAILS

S504

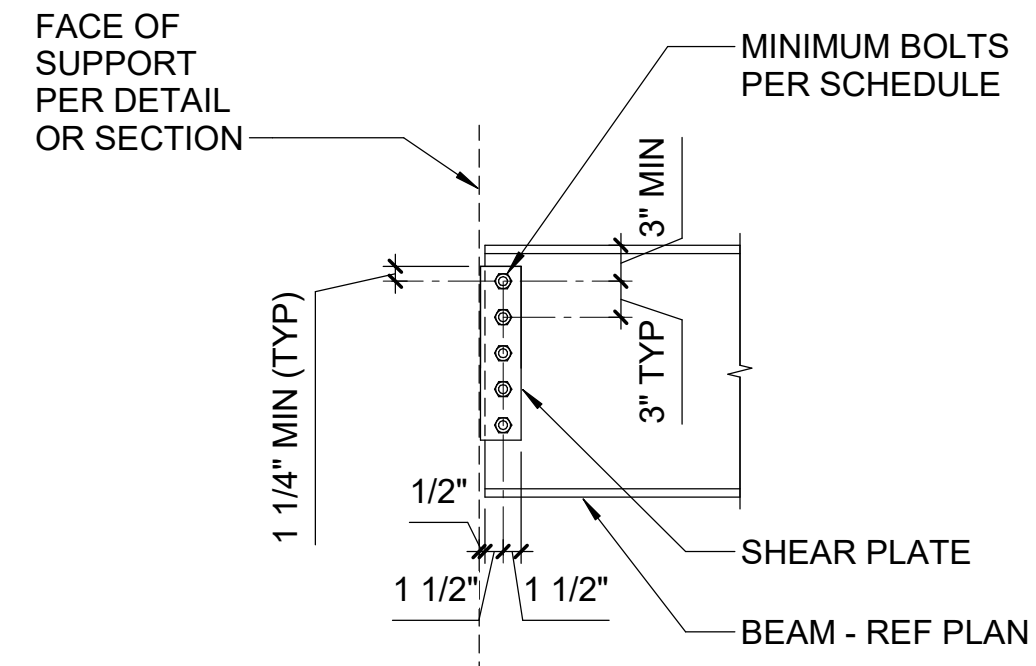
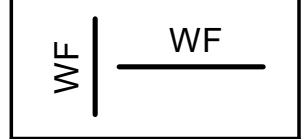
MINIMUM BEAM REACTION SCHEDULE table with columns: BEAM SIZE, DESIGN REACTION (LRFD), MIN # OF BOLTS. Rows include W8 & W10, W12, W14, & W16, W18, W21, W24 & W27, W30 AND GREATER.

NOTES:
1. REFERENCE "STRUCTURAL STEEL NOTES" IN GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. DESIGN CONNECTIONS FOR THE REACTIONS SHOWN ON PLAN. FOR REACTIONS NOT SHOWN ON PLAN, DESIGN CONNECTIONS FOR THE MINIMUM LOADS AND BOLTS INDICATED IN THE SCHEDULE ABOVE.



STANDARD SHEAR CONN WIDE FLANGE GIRDER

AS SHOWN ON PLAN

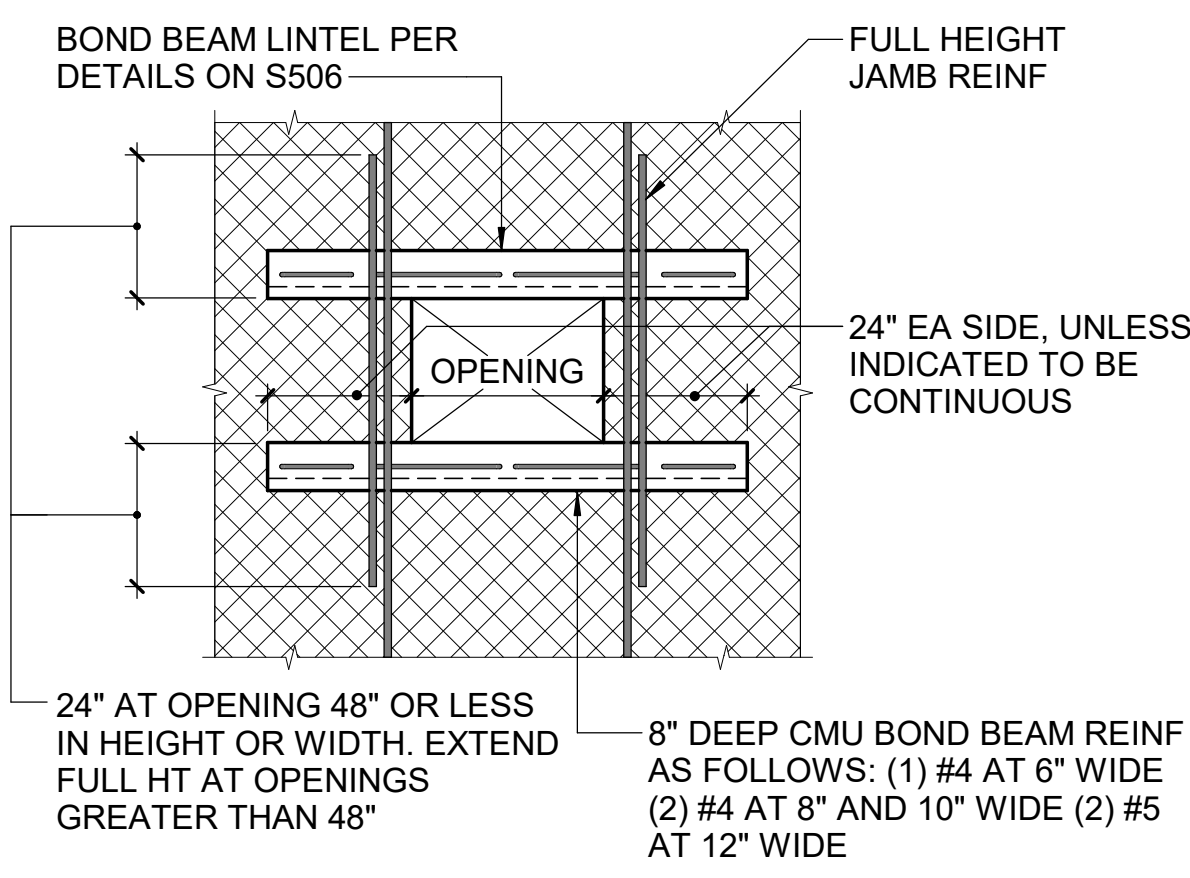


TYPICAL SHEAR PLATE

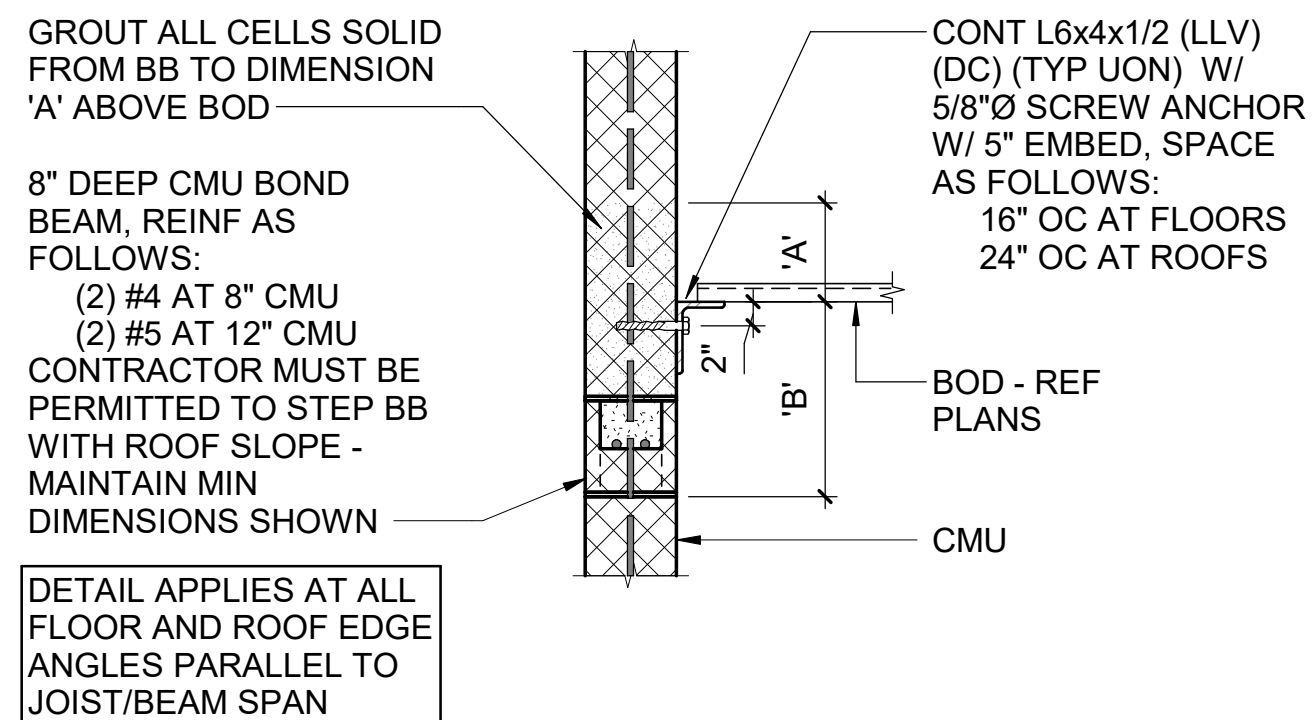
C1 TYPICAL WIDE FLANGE BEAM TO GIRDER CONNECTION DETAIL NTS

C3 TYPICAL SHEAR PLATE CONNECTION DETAIL NTS

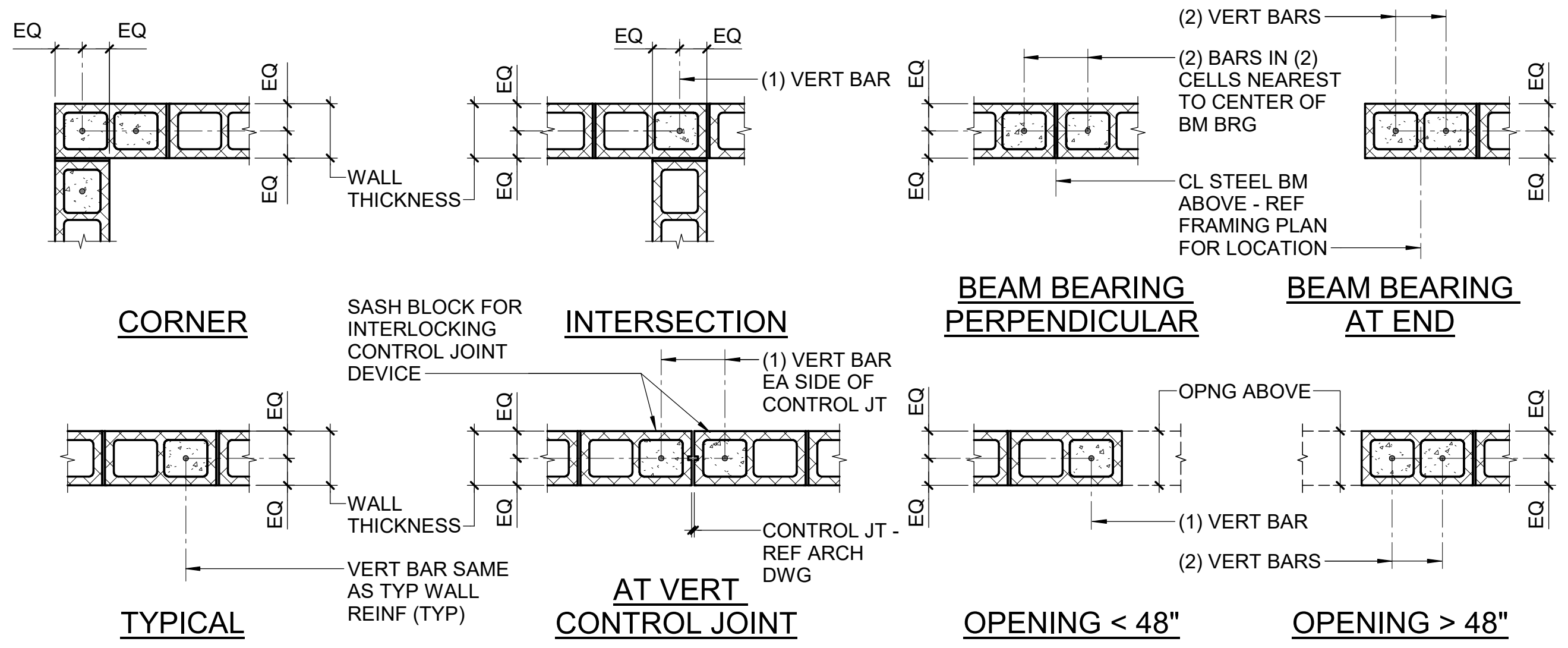
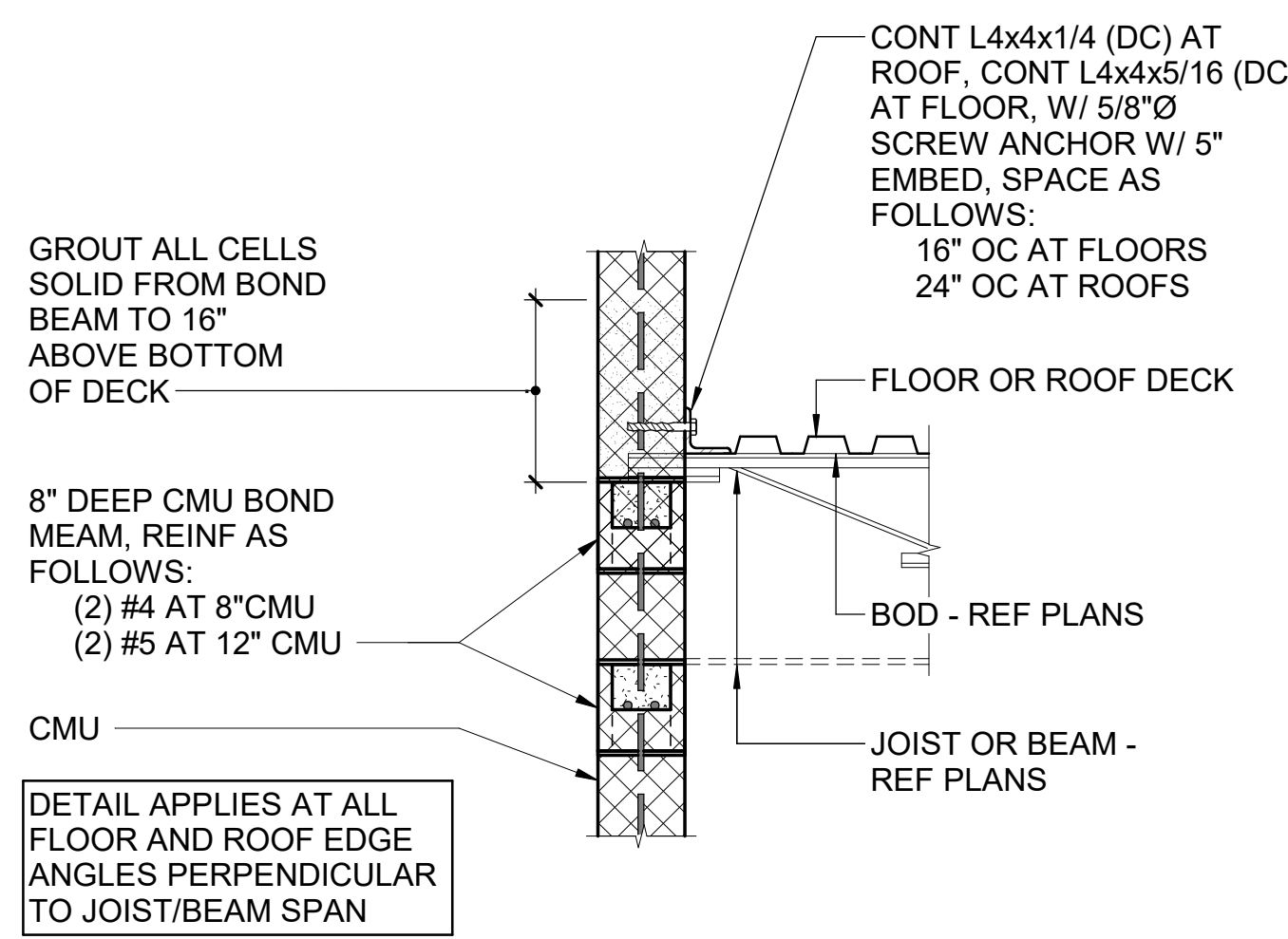
GROUT DIMENSION SCHEDULE table with columns: DIM, FLOOR, ROOF. Rows include 'A' and 'B' dimensions.



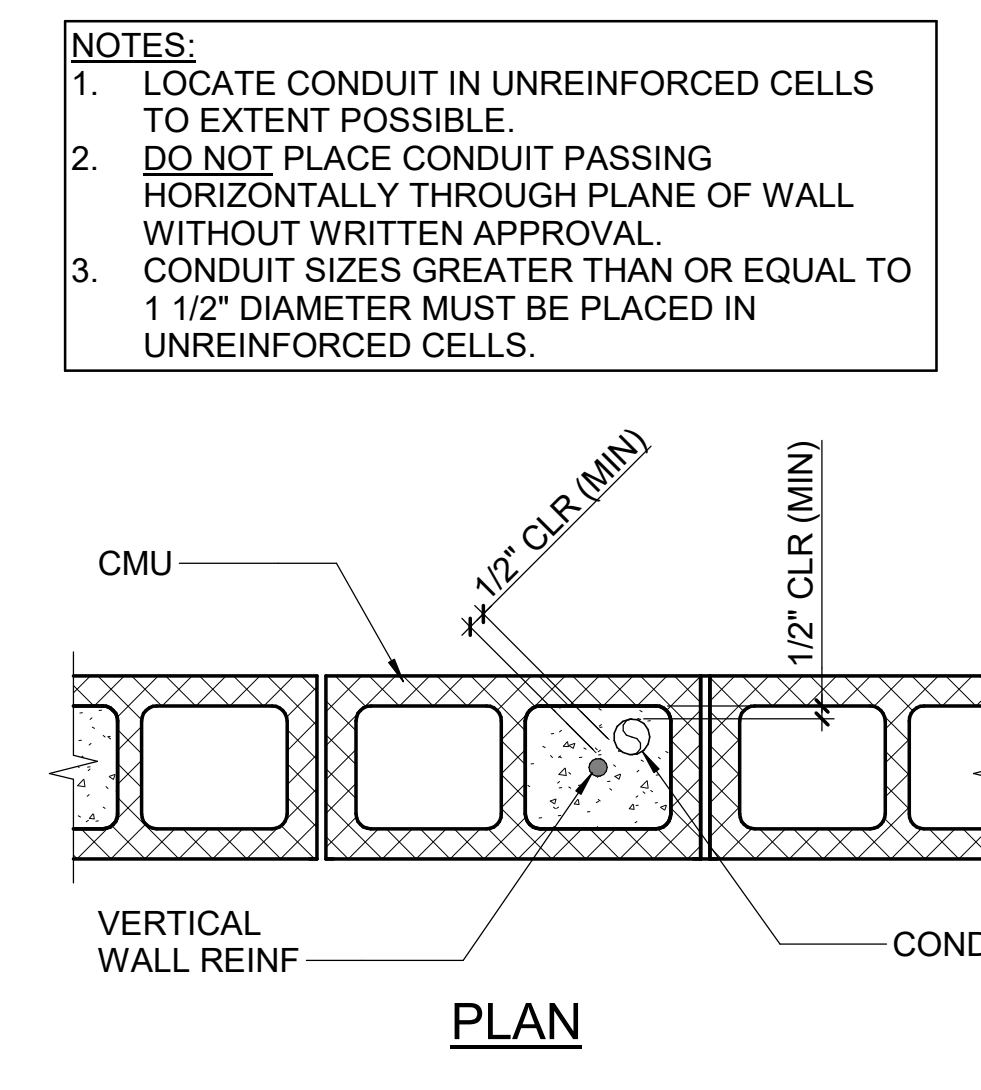
B1 TYPICAL MASONRY REINFORCING AT WALL OPENING DETAIL NTS



B2 TYPICAL MASONRY ANCHORAGE DETAILS NTS



A1 TYPICAL CONCRETE MASONRY REINFORCING DETAILS NTS



A3 TYPICAL EMBEDDED CONDUIT IN MASONRY DETAIL NTS

NOTES:
1. LOCATE CONDUIT IN UNREINFORCED CELLS TO EXTENT POSSIBLE.
2. DO NOT PLACE CONDUIT PASSING HORIZONTALLY THROUGH PLANE OF WALL WITHOUT WRITTEN APPROVAL.
3. CONDUIT SIZES GREATER THAN OR EQUAL TO 1 1/2" DIAMETER MUST BE PLACED IN UNREINFORCED CELLS.

Table with columns: CONDUIT SIZE, AREA OF DISPLACEMENT (SINGLE CONDUIT). Rows include 1/2"Ø, 3/4"Ø, 1"Ø, 1 1/4"Ø.

TOTAL DISPLACEMENT CALC
1/2"Ø + 3/4"Ø CONDUIT IN SAME CELL = 0.196 in² + 0.442 in² = 0.638 in²

Table with columns: NOMINAL CMU SIZE, MAXIMUM AREA OF GROUT DISPLACEMENT*. Rows include 4", 6", 8", 10", 12", 14", 16".

NOTE *: PER ACI 530.1

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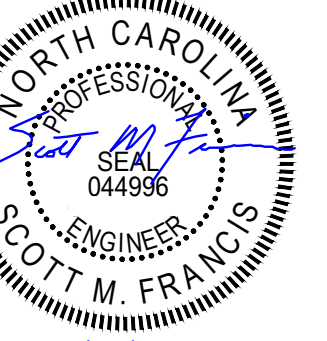
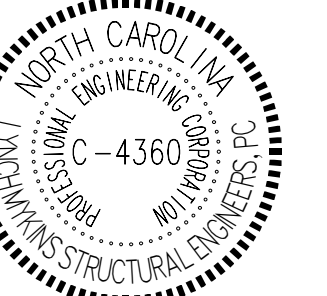
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SHEET TITLE

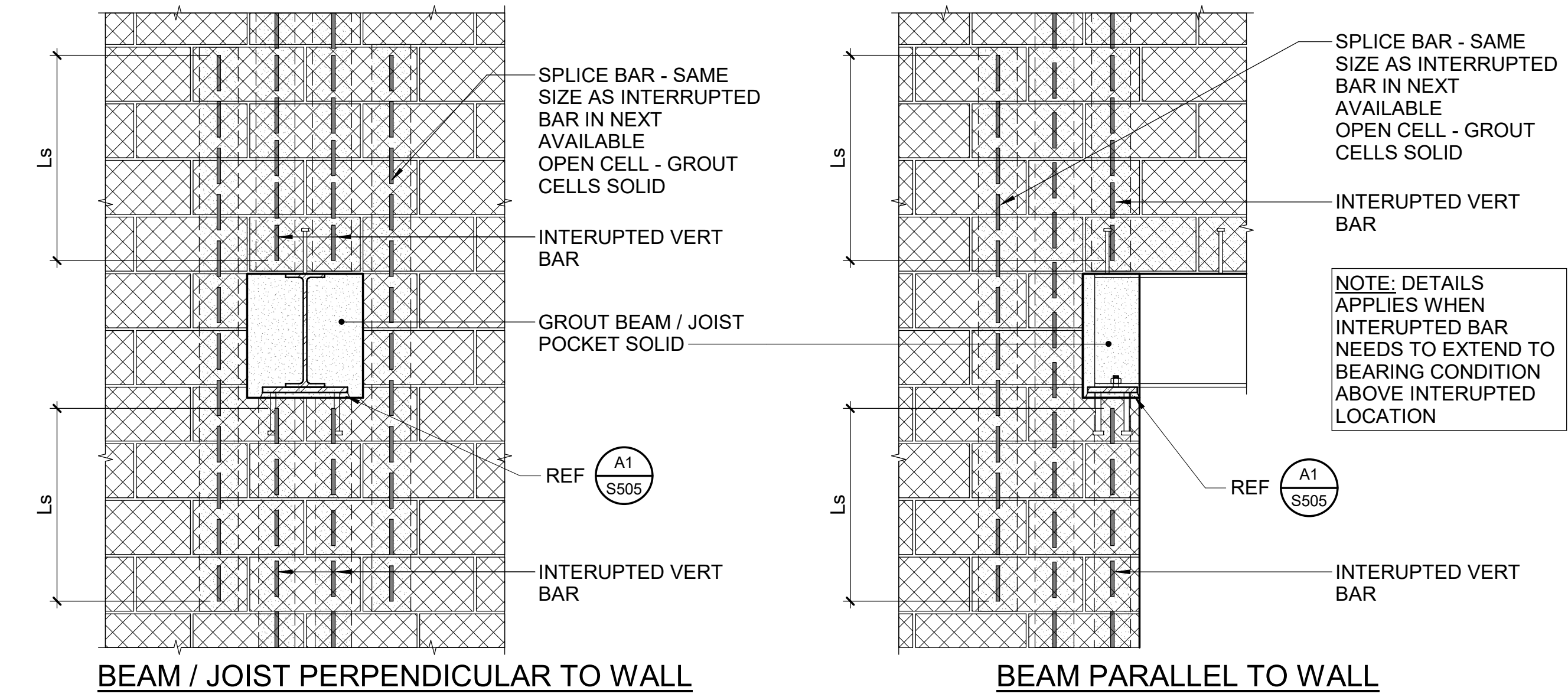
TYPICAL DETAILS

S505

TENSION DEVELOPMENT LENGTH AND LAP SPLICE SCHEDULE

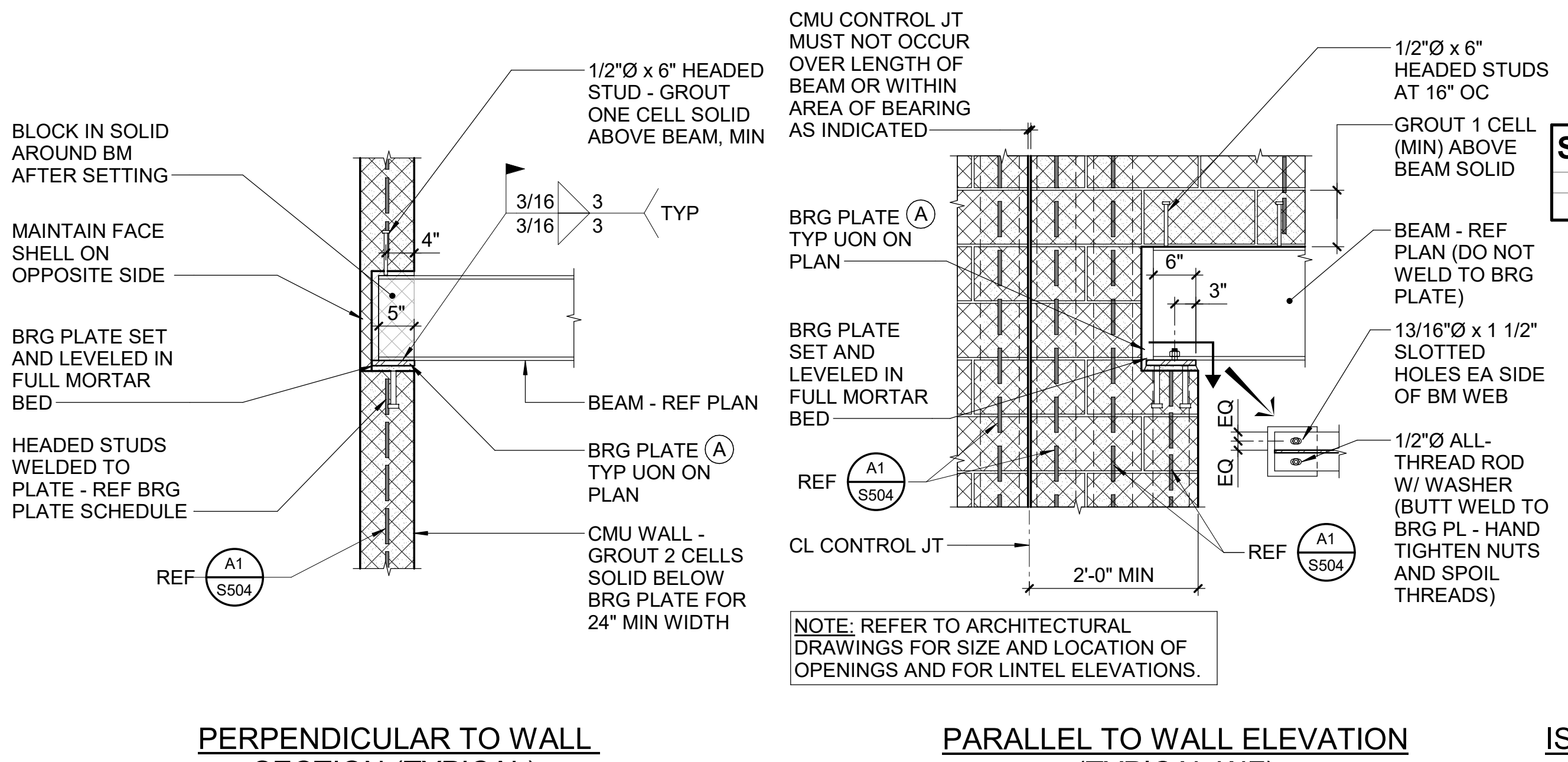
BAR SIZE	TYPE	CONCRETE COMPRESSIVE STRENGTH (PSI)							
		3000		4000		5000		6000	
		TOP BAR	OTHER	TOP BAR	OTHER	TOP BAR	OTHER	TOP BAR	OTHER
#3	Ld	22	17	19	15	17	13	22	17
	Ls	28	22	24	19	22	17	28	22
#4	Ld	29	22	25	19	22	17	29	22
	Ls	37	29	32	25	29	22	37	29
#5	Ld	36	28	31	24	28	22	36	28
	Ls	47	36	40	31	36	28	47	36
#6	Ld	43	33	37	29	33	26	43	33
	Ls	56	43	48	37	43	33	56	43
#7	Ld	63	48	54	42	49	37	63	48
	Ls	81	63	70	54	63	49	81	63
#8	Ld	72	55	62	48	55	43	72	55
	Ls	93	72	80	62	72	55	93	72

NOTES:
1. ALL VALUES LISTED ARE INCHES.
2. TABLE IS BASE ON VALUES FOR ACI 318-14.
3. VALUES LISTED ARE FOR NORMAL WEIGHT CONCRETE. FOR LIGHTWEIGHT CONCRETE, MULTIPLY LENGTHS BY 1.33.
4. TOP BARS ARE DEFINED AS BARS WITH MORE THAN 12" OF CONCRETE COVER BELOW BAR.
5. WHERE DIFFERENT SIZE BARS ARE SPLICED, PROVIDE THE SPLICE LENGTH ASSOCIATED WITH THE LARGER BARS.



B1 TYPICAL OFFSET SPLICE AT MASONRY WALL DETAIL
NTS

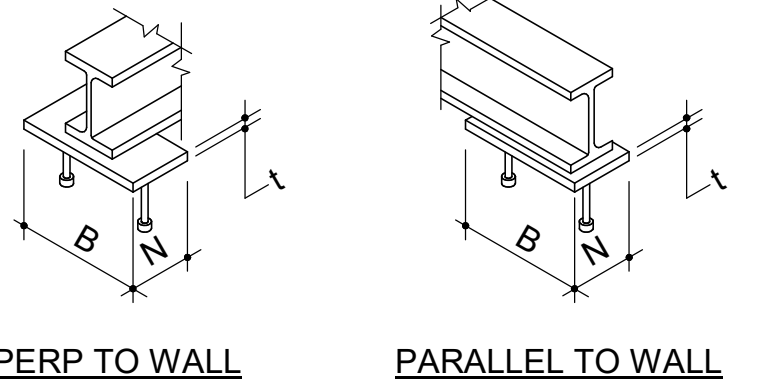
B2 TYPICAL REINFORCING SPLICE SCHEDULES
NTS



A1 TYPICAL STEEL BEAM BEARING ON MASONRY DETAILS
NTS

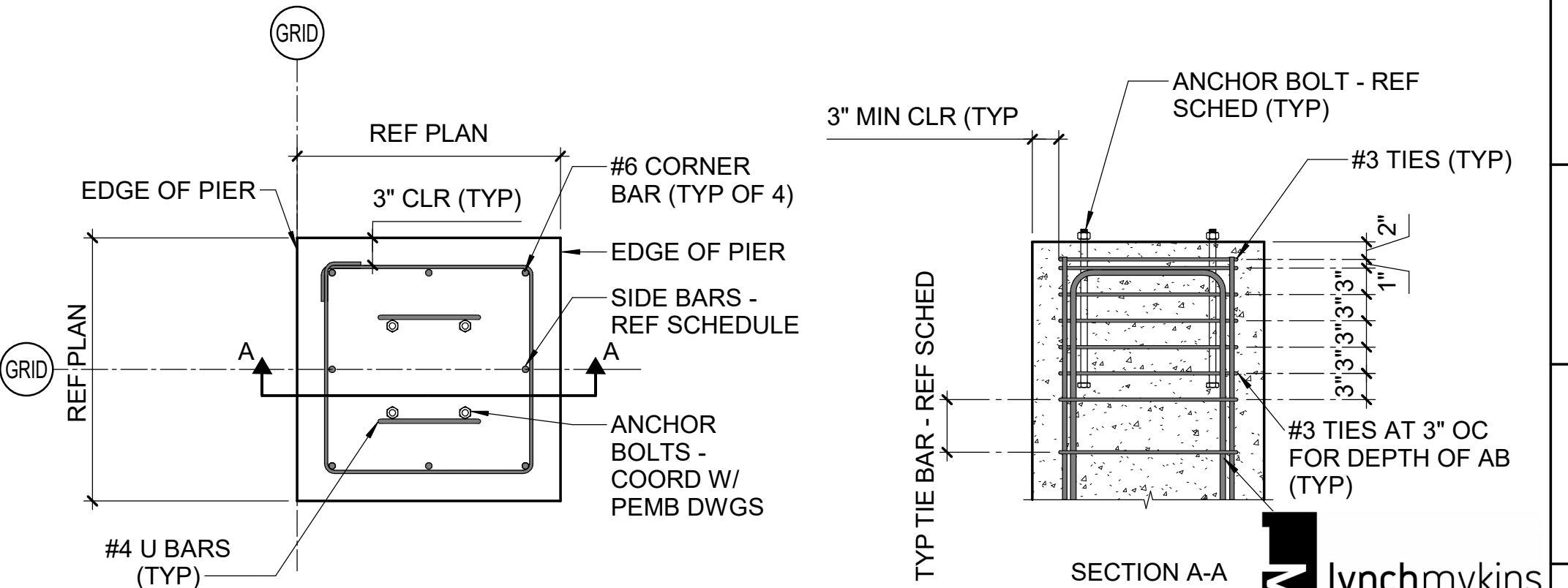
STEEL BEAM BEARING PLATE SCHEDULE

MARK	LENGTH (B)	WIDTH (N)	THICKNESS (t)	HEADED STUDS
A	1'-4"	6"	3/4"	(2) 3/4"Ø x 6" LONG



PEDESTAL REINFORCING SCHEDULE

SIZE	SIDE BARS (EA FACE)	TYPICAL TIE BARS	ANCHOR BOLTS
40"x 40"	(8) #6	#3 AT 6" OC	(4) 1"Ø BOLTS (15" MIN EMBED)
16"x 16"	(2) #6	#3 AT 6" OC	(4) 1"Ø BOLTS (9" MIN EMBED)



A3 TYP PEMB PIER REINFORCING DETAILS
3/4" = 1'-0"

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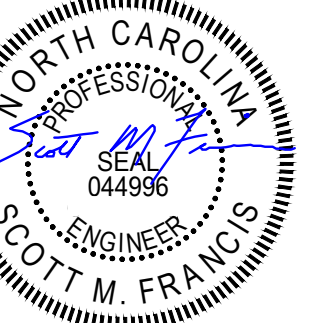
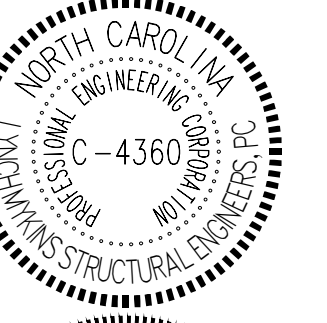
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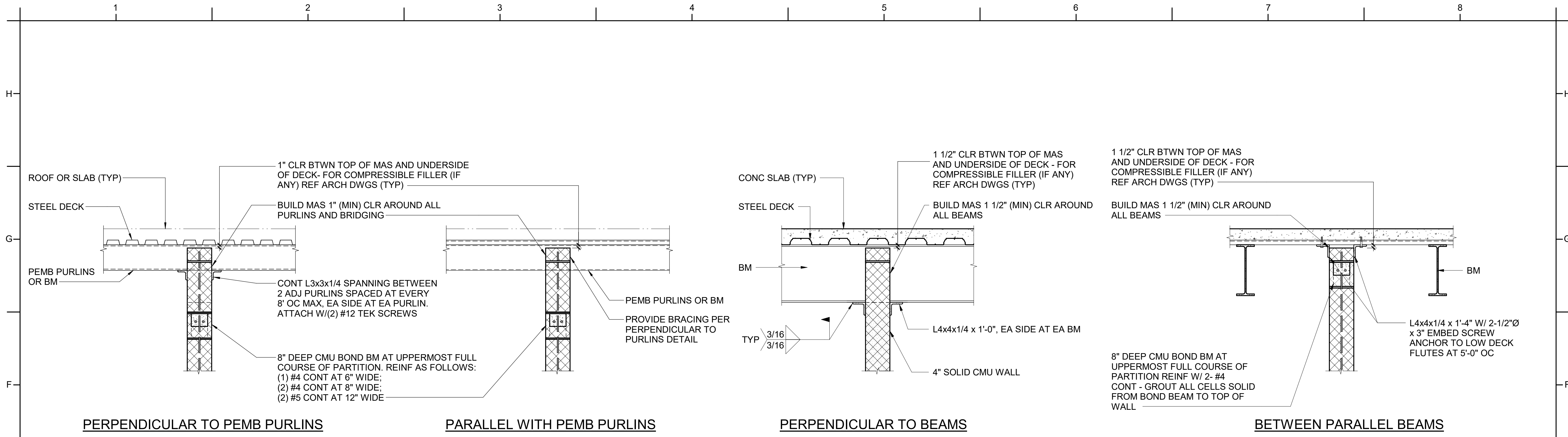
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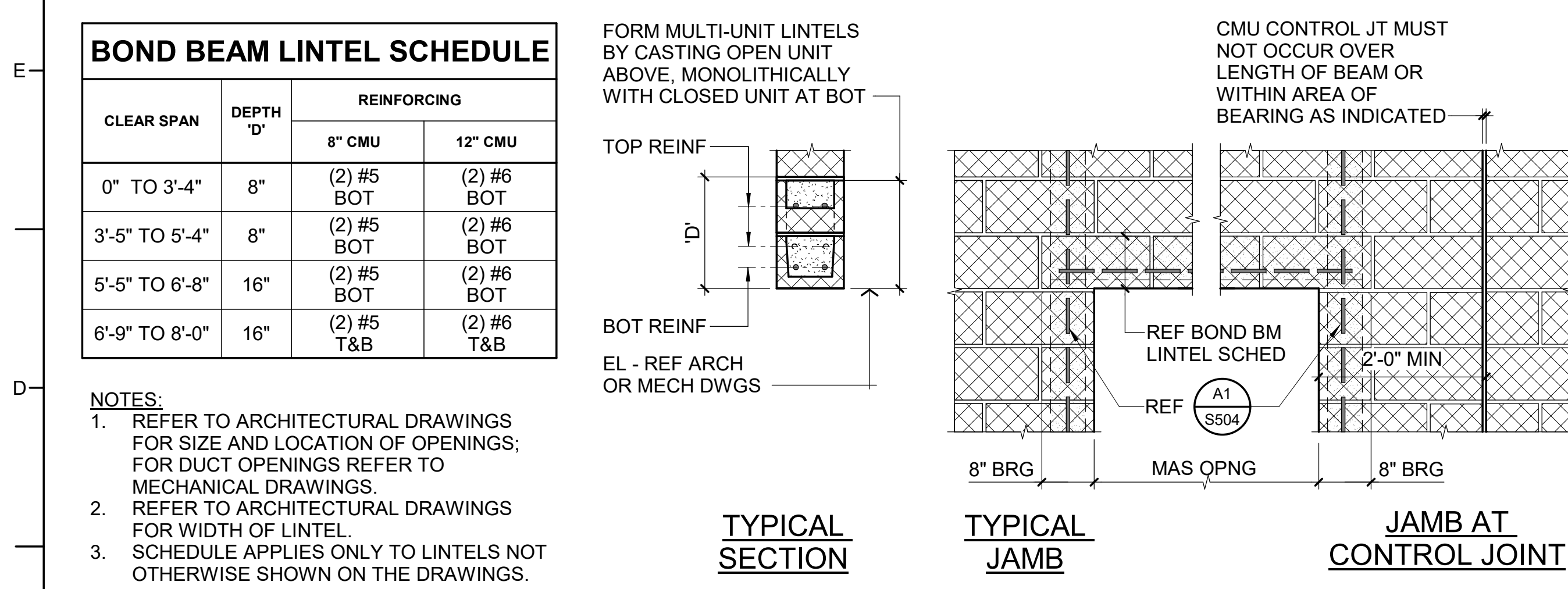
SHEET TITLE

TYPICAL DETAILS

S506



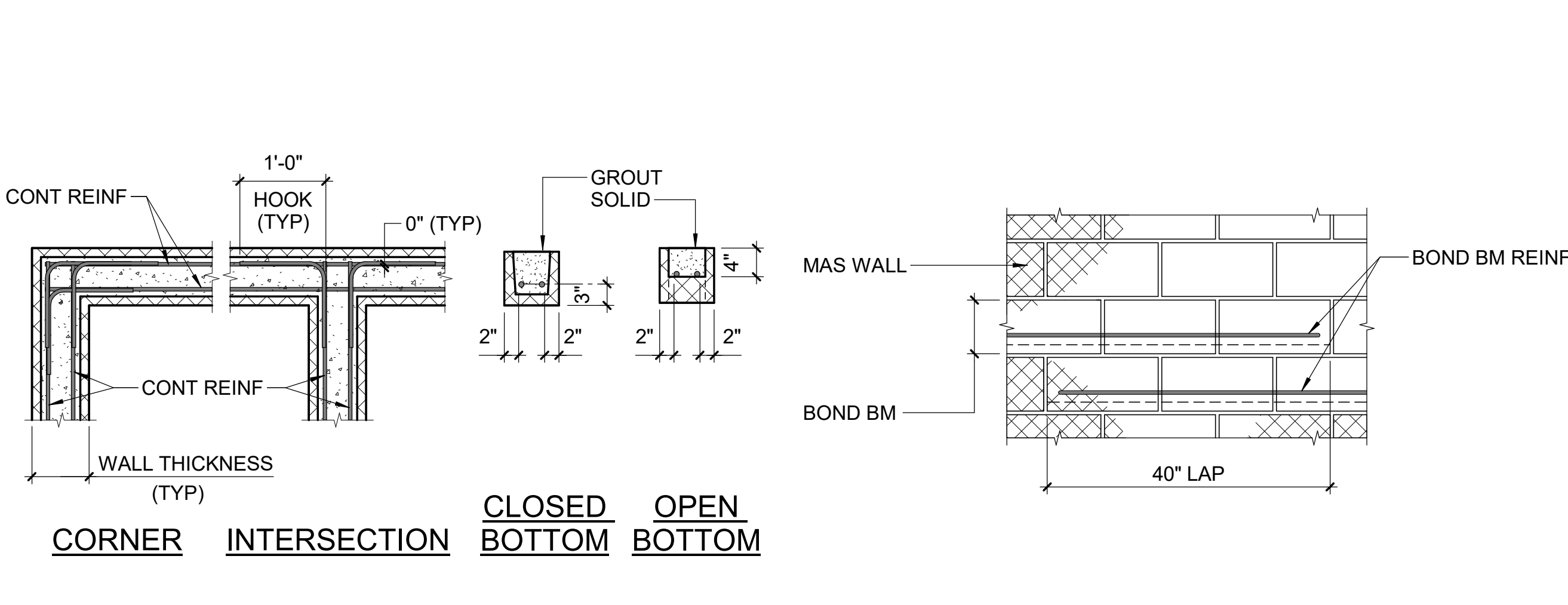
C2 TYPICAL NON-BEARING MASONRY PARTITION BRACING DETAILS
NTS



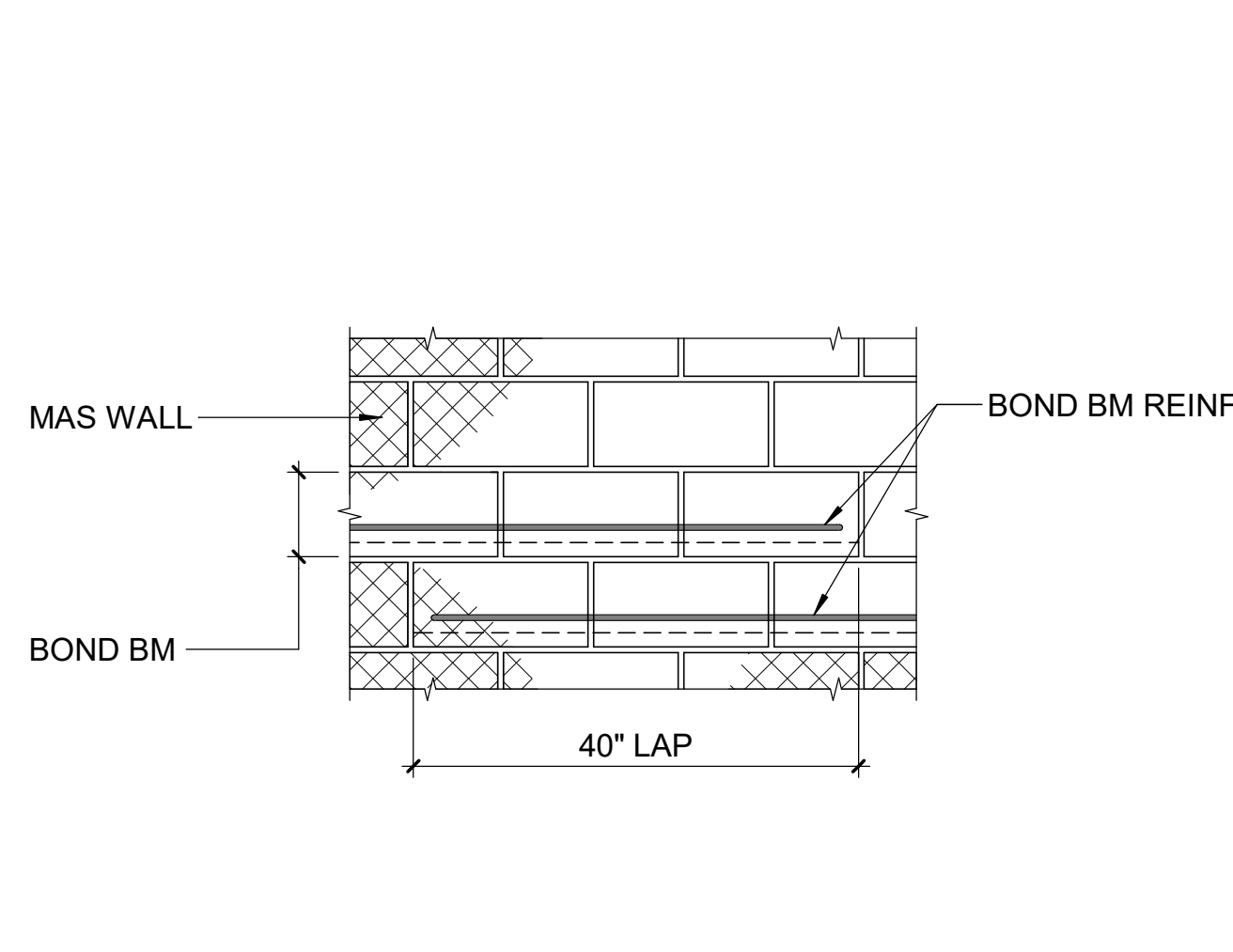
CLEAR SPAN	DEPTH 'D'	REINFORCING	
		8" CMU	12" CMU
0" TO 3'-4"	8"	(2) #5 BOT	(2) #6 BOT
3'-5" TO 5'-4"	8"	(2) #5 BOT	(2) #6 BOT
5'-5" TO 6'-8"	16"	(2) #5 BOT	(2) #6 BOT
6'-9" TO 8'-0"	16"	(2) #5 T&B	(2) #6 T&B

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS; FOR DUCT OPENINGS REFER TO MECHANICAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR WIDTH OF LINTEL.
3. SCHEDULE APPLIES ONLY TO LINTELS NOT OTHERWISE SHOWN ON THE DRAWINGS.

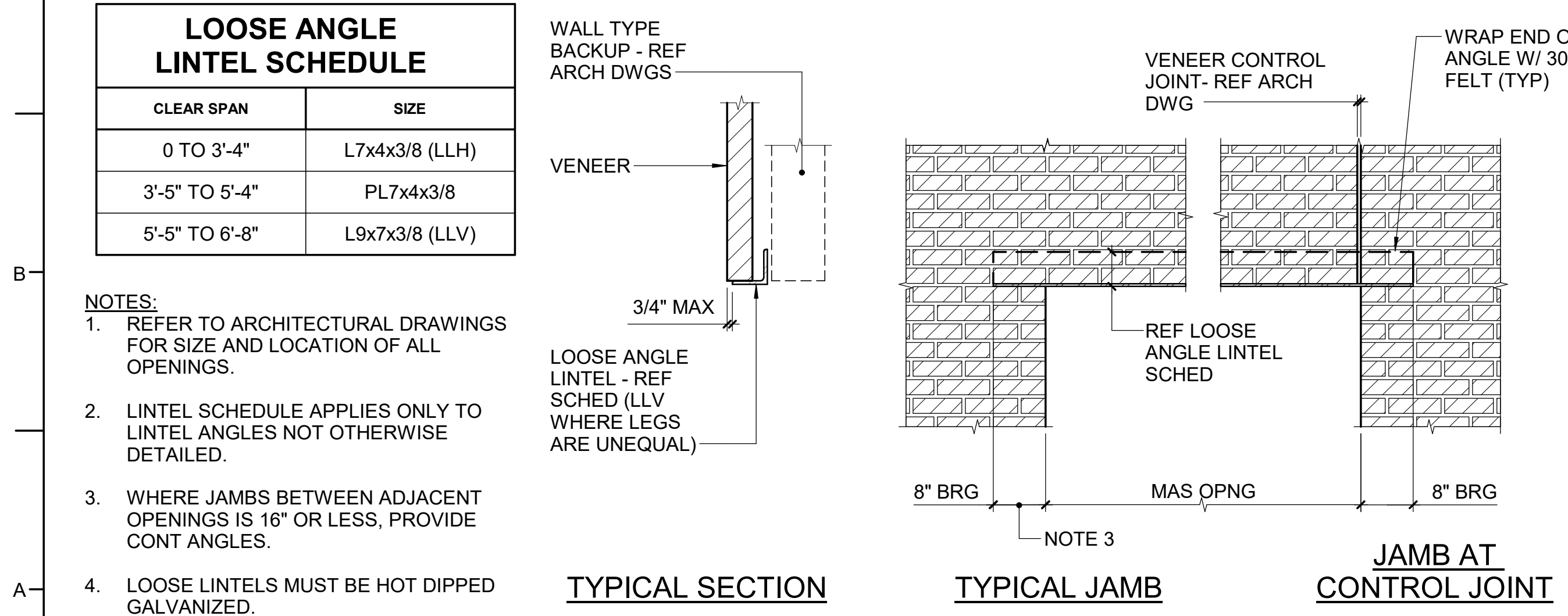
B1 BOND BEAM LINTEL DETAILS
NTS



B3 TYPICAL BOND BEAM REINFORCING DETAILS
NTS



B4 TYPICAL STEPPED BOND BEAM DETAIL
NTS



CLEAR SPAN	SIZE
0 TO 3'-4"	L7x4x3/8 (LLH)
3'-5" TO 5'-4"	PL7x4x3/8
5'-5" TO 6'-8"	L9x7x3/8 (LLV)

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
2. LINTEL SCHEDULE APPLIES ONLY TO LINTEL ANGLES NOT OTHERWISE DETAILED.
3. WHERE JAMBS BETWEEN ADJACENT OPENINGS IS 16" OR LESS, PROVIDE CONT ANGLES.
4. LOOSE LINTELS MUST BE HOT DIPPED GALVANIZED.

A1 TYPICAL LOOSE ANGLE LINTELS IN BRICK WALLS
NTS

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CHEATHAM AND ASSOCIATES, P.A. CONSULTING ENGINEERS 3412 ENTERPRISE DRIVE WILMINGTON, NORTH CAROLINA 28405 PHONE: (910) 452-4210 OFFICE@CHEATHAMPA.COM WWW.CHEATHAMPA.COM NC LICENSE# C-1073

ONSLOW COUNTY BEAR CREEK FIRE STATION ONSLOW COUNTY BID. NO. 102-25C 138 OLD SAND RIDGE RD, HUBERT, NC 28639

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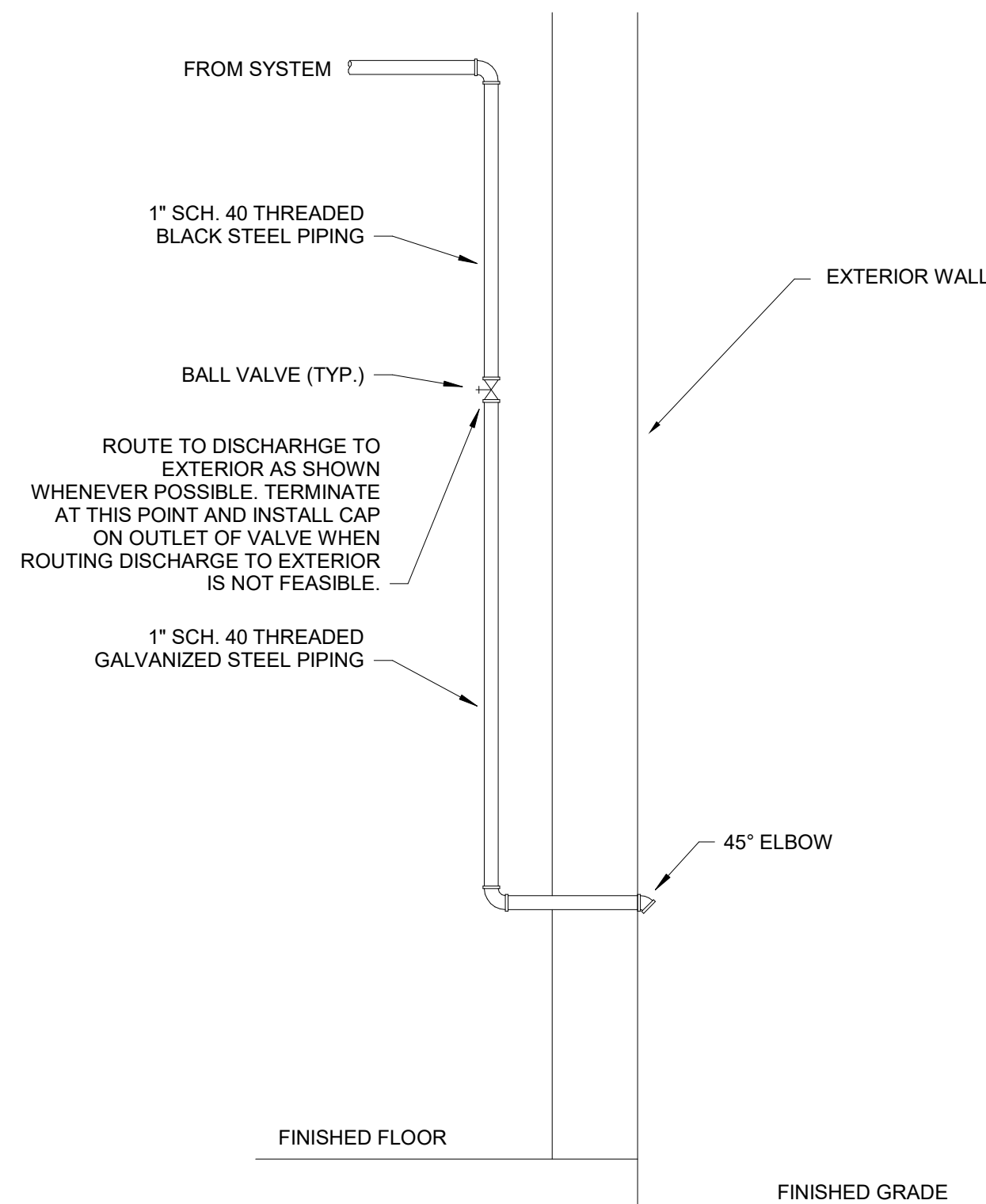
SHEET TITLE FIRE PROTECTION LEGEND AND DETAILS

F001

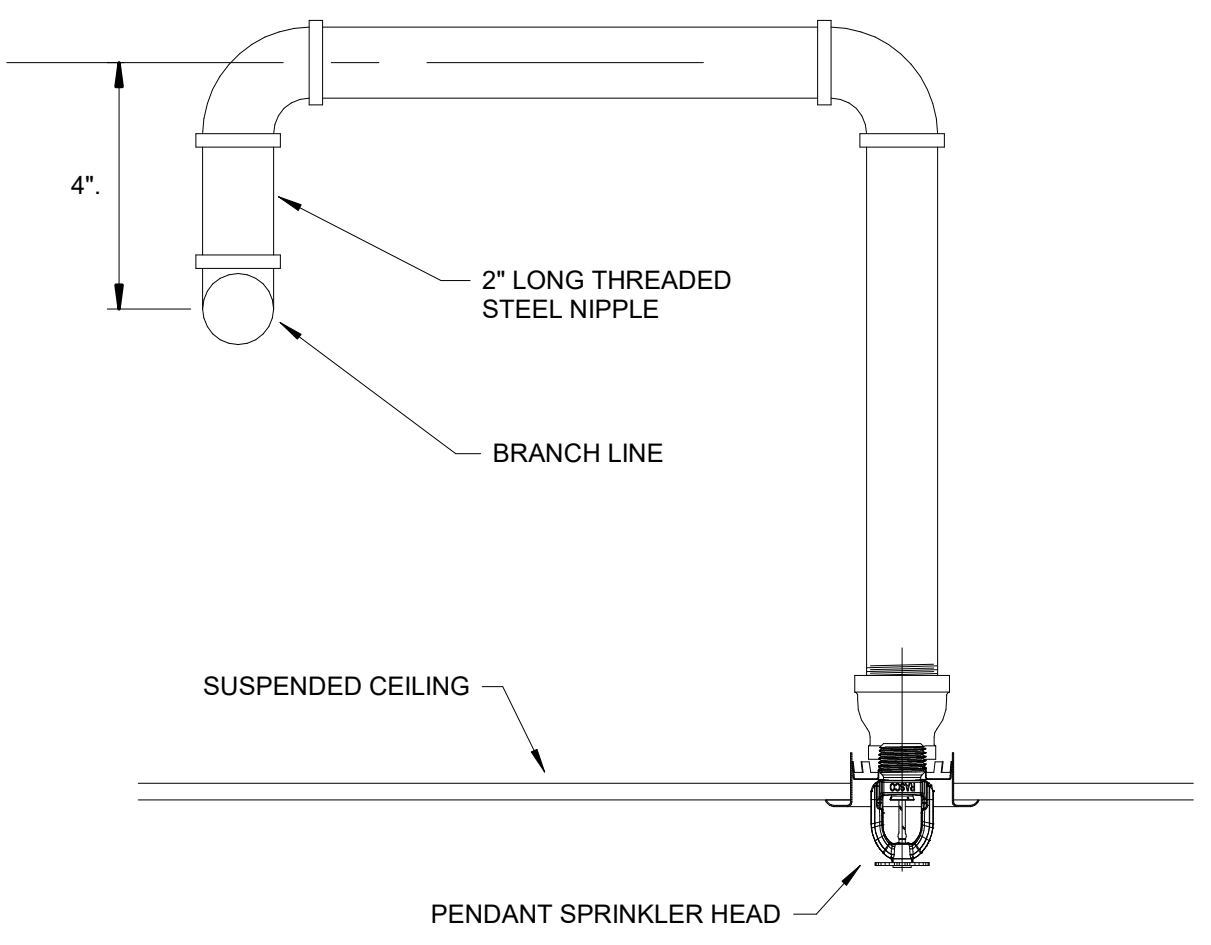
GENERAL NOTES: (APPLIES TO ALL FIRE PROTECTION DRAWINGS)

- 1. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH BUILDING STRUCTURE AND SYSTEMS, AS WELL AS THE WORK OF OTHER TRADES IN ORDER TO ELIMINATE CONFLICTS.
- 2. SPRINKLER CONTRACTOR'S DESIGN SHALL BE PER NFPA 13 (2013 EDITION), AND THE 2018 NC STATE FIRE PREVENTION CODE.
- 3. SPRINKLER CONTRACTOR SHALL PERFORM FLOW TEST PRIOR TO STARTING DESIGN, AND PERFORM HYDRAULIC CALCULATIONS USING THE FLOW TEST DATA PER THE SPECIFICATIONS.
- 4. PROVIDE AUXILIARY DRAINS WHEREVER WET SYSTEM PIPING IS ROUTED SUCH THAT WATER IS TRAPPED IN EXCESS OF 5 GALLONS.
- 5. LIGHT HAZARD OCCUPANCIES (WET SYSTEM): PER NFPA 13, DESIGN DENSITY SHALL BE 0.1 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,500 SQUARE FEET. HOSE ALLOWANCE FOR LIGHT HAZARD SHALL BE 100 GPM PER NFPA 13.
- 6. ORDINARY HAZARD I OCCUPANCIES (WET SYSTEM): PER NFPA 13, DESIGN DENSITY SHALL BE 0.15 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,500 SQUARE FEET. HOSE ALLOWANCE FOR ORDINARY HAZARD I SHALL BE 250 GPM PER NFPA 13.
- 7. ORDINARY HAZARD II OCCUPANCIES (WET SYSTEM): PER NFPA 13, DESIGN DENSITY SHALL BE 0.20 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,500 SQUARE FEET. HOSE ALLOWANCE FOR ORDINARY HAZARD II SHALL BE 250 GPM PER NFPA 13.
- 8. REMOTE AREAS MAY BE REDUCED DUE TO THE USE OF QUICK RESPONSE HEADS PER NFPA 13. REMOTE AREAS SHALL BE INCREASED BY 30% WHERE CEILING OR ROOF SLOPES MORE THAN 2 INCHES PER FOOT.
- 9. SPRINKLER CONTRACTOR SHALL PROVIDE SEISMIC BRACING. DESIGN OF SEISMIC BRACING SHALL BE BY THE SPRINKLER CONTRACTOR OR A LICENSED STRUCTURAL ENGINEER WHOM THE SPRINKLER CONTRACTOR HAS RETAINED THE SERVICES OF. DESIGN SHALL BE PER NFPA 13 AND ASCE-07 FOR SEISMIC DESIGN CATEGORY 'C', FOR AN OCCUPANCY CATEGORY ## BUILDING.
- 10. LOCATE SPRINKLER HEADS IN THE CENTER OF CEILING TILES.

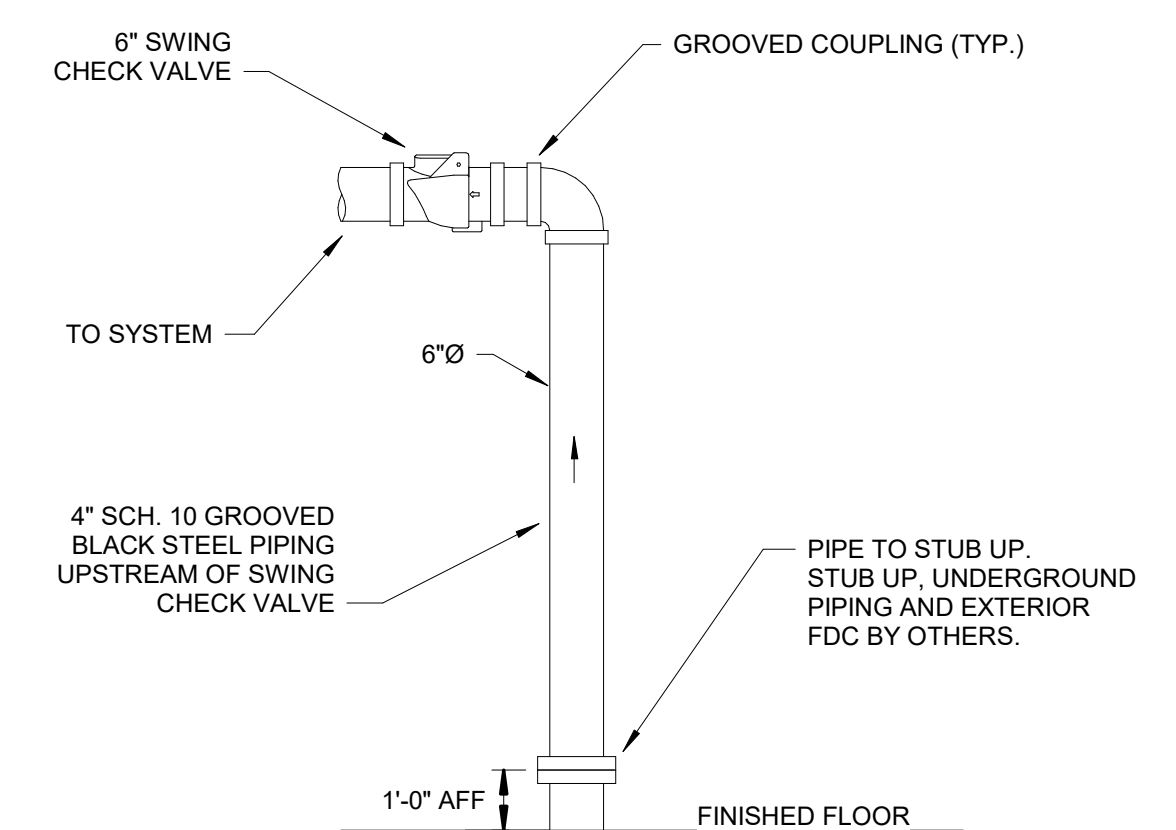
FIRE FLOW CALCULATION AREA (INCLUDES MEZZANINE):	17,800 SQ. FT.
CONSTRUCTION TYPE:	V-B
SPRINKLER SYSTEM:	PER 903.3.1.1 (NFPA 13)
ALLOWED FLOW REDUCTION PER TABLE B105.2:	25% OF VALUE LISTED IN TABLE B105.1(2) (1,000 GPM MINIMUM)
REQUIRED FIRE FLOW PER TABLE B105.1(2):	3,500 GPM @ 20 PSI
REQUIRED FIRE FLOW:	1,000 GPM @ 20 PSI
AVAILABLE FIRE FLOW:	1,610 GPM @ 20 PSI
REQUIRED FLOW DURATION PER TABLE B105.1(2):	3 HOURS



D AUXILIARY DRAIN DETAIL SCALE: NONE



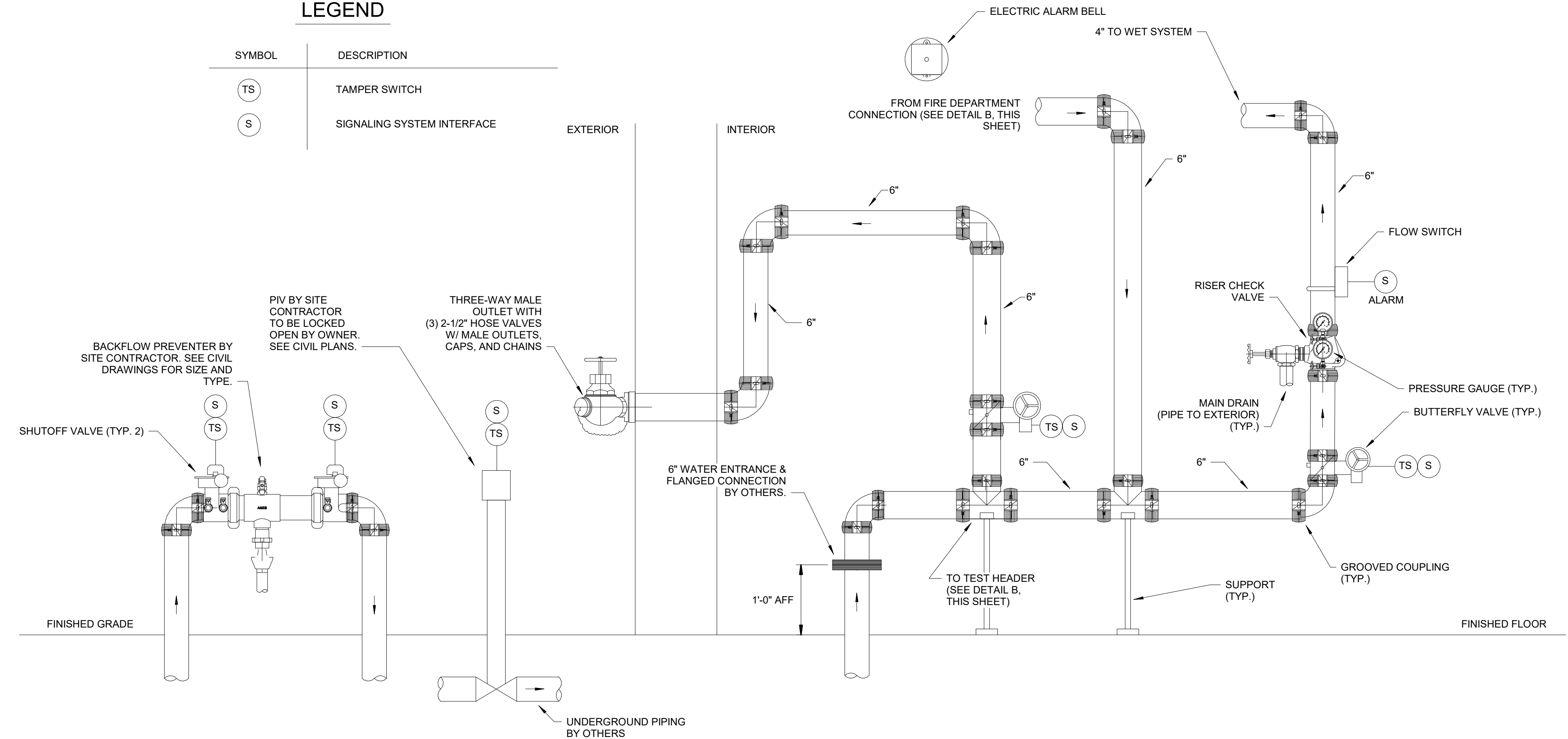
C ARMOVER DETAIL SCALE: NONE



B FIRE DEPT. CONNECTION DETAIL - REMOTE SCALE: NONE

LEGEND

SYMBOL	DESCRIPTION
TS	TAMPER SWITCH
S	SIGNALING SYSTEM INTERFACE



A SPRINKLER ENTRANCE DETAIL SCALE: NONE



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JOB # 24012

ONSLOW COUNTY BEAR
CREEK FIRE STATION
ONSLOW COUNTY
BID. NO. 102-25C
138 OLD SAND RIDGE RD, HUBERT, NC 28639

TEST HYDRANT 108A
STATIC PRESSURE: 72 PSI
RESIDUAL PRESSURE: 48 PSI
FLOW: 1,061 GPM
DATE: 2/14/2024
PERFORMED BY: ONSLOW
COUNTY FIRE/RESCUE

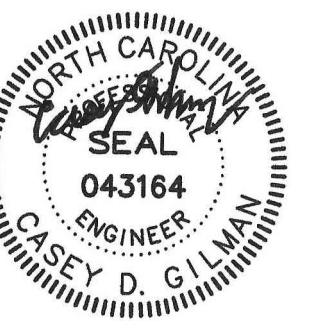
IF THIS FLOW TEST IS MORE
THAN ONE YEAR OLD AT THE
TIME OF SPRINKLER
CONTRACTOR'S DESIGN,
SPRINKLER CONTRACTOR IS
RESPONSIBLE FOR
PERFORMING NEW FLOW
TEST, OR OBTAINING FLOW
TEST DATA LESS THAN ONE
YEAR OLD FROM ONSLOW
COUNTY FIRE/RESCUE.



1 FIRE PROTECTION SITE DIAGRAM
F002 SCALE: NOT TO SCALE

NOTE: THIS SHEET PROVIDED FOR INFORMATION ONLY AND TO SHOW FLOW TEST DATA USED FOR ENGINEER'S DESIGN. CONTRACTOR SHALL REFER TO CIVIL PLANS FOR EXACT PIPE SIZES, ROUTING, AND ALL OTHER FEATURES OF THE WATER SUPPLY OUTSIDE OF THE BUILDING.

SEALS



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SHEET TITLE
FIRE PROTECTION
SITE DIAGRAM

F002



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ONSLOW COUNTY
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SHEET TITLE
FIRST FLOOR FIRE PROTECTION HAZARD PLAN

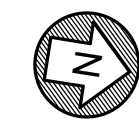
F100



SPRINKLERS NOT REQUIRED IN EXTERIOR SOFFIT. GRILL TO BE LOCATED A MINIMUM OF 10 FEET HORIZONTALLY FROM SOFFIT.

SPRINKLERS NOT REQUIRED IN EXTERIOR SOFFIT. SOFFIT IS OF NON-COMBUSTIBLE CONSTRUCTION WITH NO STORAGE BENEATH IT.

1 FIRST FLOOR FIRE PROTECTION HAZARD PLAN
SCALE: 1/8" = 1'-0"



GRAPHIC SCALE



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

HAZARD LEGEND

- Light Hazard (White box)
- Ordinary Hazard I (Diagonal lines)
- Ordinary Hazard II (Cross-hatch pattern)

RATED ASSEMBLIES LEGEND:

- 2-HR. FIRE BARRIER (Thick black line)
- 1/2-HR. FIRE PARTITION (Thin black line)

SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.



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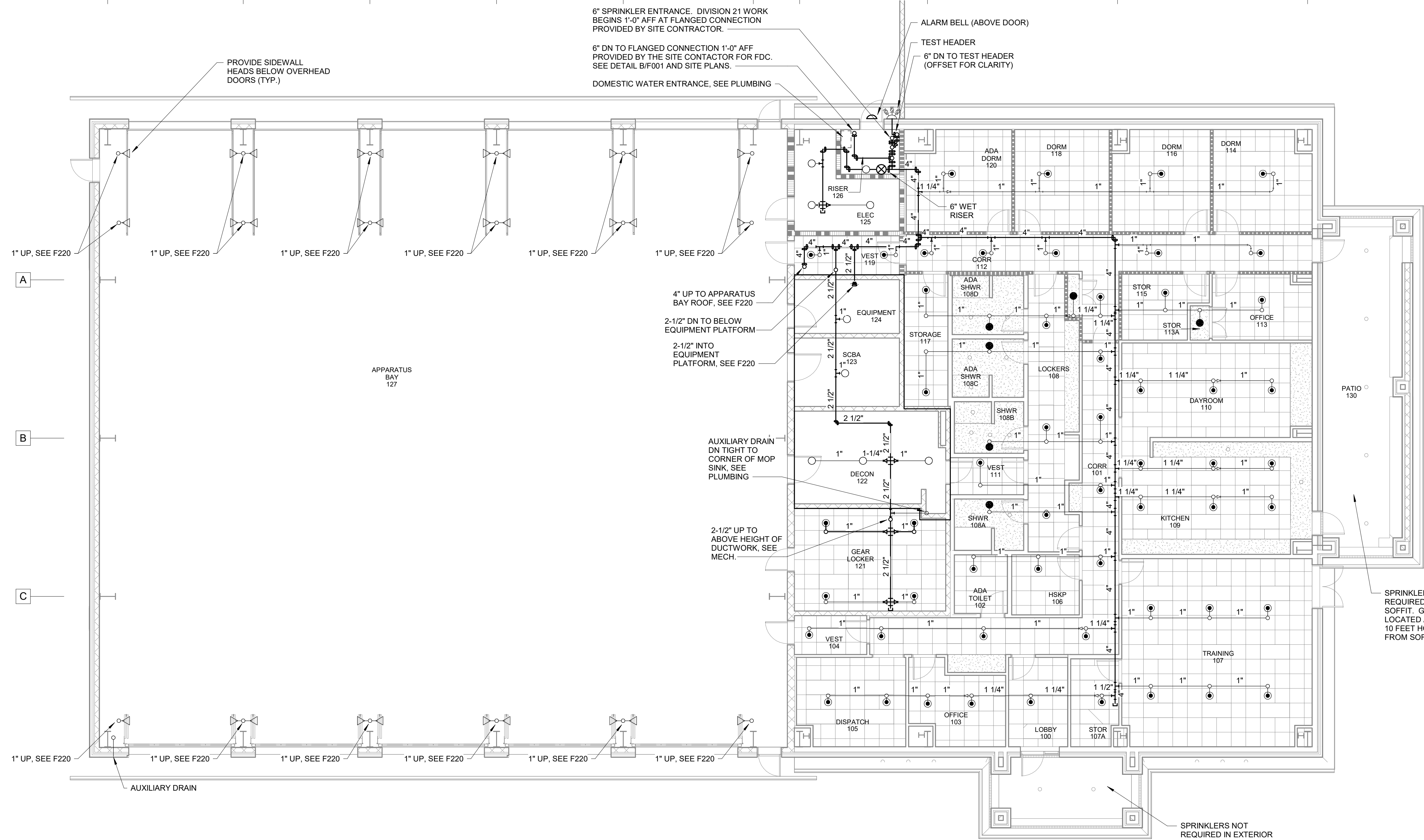
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SHEET TITLE
FIRST FLOOR FIRE PROTECTION

F200

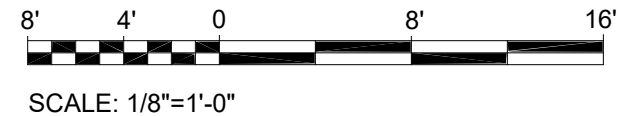


1 F200

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



GRAPHIC SCALE



SPRINKLER LEGEND

- RECESSED PENDENT SPRINKLER HEAD
- CONCEALED PENDENT SPRINKLER HEAD
- RECESSED CORROSION RESISTANT DRY PENDENT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- ⊗ WET SPRINKLER RISER
- PIPE RISER DOWN

RATED ASSEMBLIES LEGEND:

- ▬ 2-HR. FIRE BARRIER
- ▬ 1/2-HR. FIRE PARTITION

SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.

SPRINKLERS NOT REQUIRED IN EXTERIOR SOFFIT. GRILL TO BE LOCATED A MINIMUM OF 10 FEET HORIZONTALLY FROM SOFFIT.

SPRINKLERS NOT REQUIRED IN EXTERIOR SOFFIT. SOFFIT IS OF NON-COMBUSTIBLE CONSTRUCTION WITH NO STORAGE BENEATH IT.

6" SPRINKLER ENTRANCE. DIVISION 21 WORK BEGINS 1'-0" AFF AT FLANGED CONNECTION PROVIDED BY SITE CONTRACTOR.
6" DN TO FLANGED CONNECTION 1'-0" AFF PROVIDED BY THE SITE CONTRACTOR FOR FDC. SEE DETAIL B/F001 AND SITE PLANS.
DOMESTIC WATER ENTRANCE, SEE PLUMBING

ALARM BELL (ABOVE DOOR)
TEST HEADER
6" DN TO TEST HEADER (OFFSET FOR CLARITY)

PROVIDE SIDEWALL HEADS BELOW OVERHEAD DOORS (TYP.)

1" UP, SEE F220

1" UP, SEE F220

1" UP, SEE F220

1" UP, SEE F220

1" UP, SEE F220

1" UP, SEE F220

4" UP TO APPARATUS BAY ROOF, SEE F220

2-1/2" DN TO BELOW EQUIPMENT PLATFORM

2-1/2" INTO EQUIPMENT PLATFORM, SEE F220

AUXILIARY DRAIN DN TIGHT TO CORNER OF MOP SINK, SEE PLUMBING

2-1/2" UP TO ABOVE HEIGHT OF DUCTWORK, SEE MECH.

AUXILIARY DRAIN

APPARATUS BAY 127

PATIO 130

TRAINING 107

KITCHEN 109

DAYROOM 110

OFFICE 113

STOR 115

STOR 115A

LOCKERS 108

ADA SHWR 108B

SHWR 108A

VEST 111

CDRR 101

1 1/4"

1 1/4"

1 1/4"

1 1/4"

1 1/4"

1 1/4"

1 1/4"

1 1/4"

1 1/4"

1 1/4"

1 1/4"

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ADA DORM 120

DORM 118

DORM 116

DORM 114

6" WET RISER

RISER 126

ELEC 125

VEST 115

CORR 112

ADA SHWR 108D

EQUIPMENT 124

STORAGE 117

SCBA 123

2 1/2"

2 1/2"

2 1/2"

1 1/4"

1 1/4"

1 1/4"

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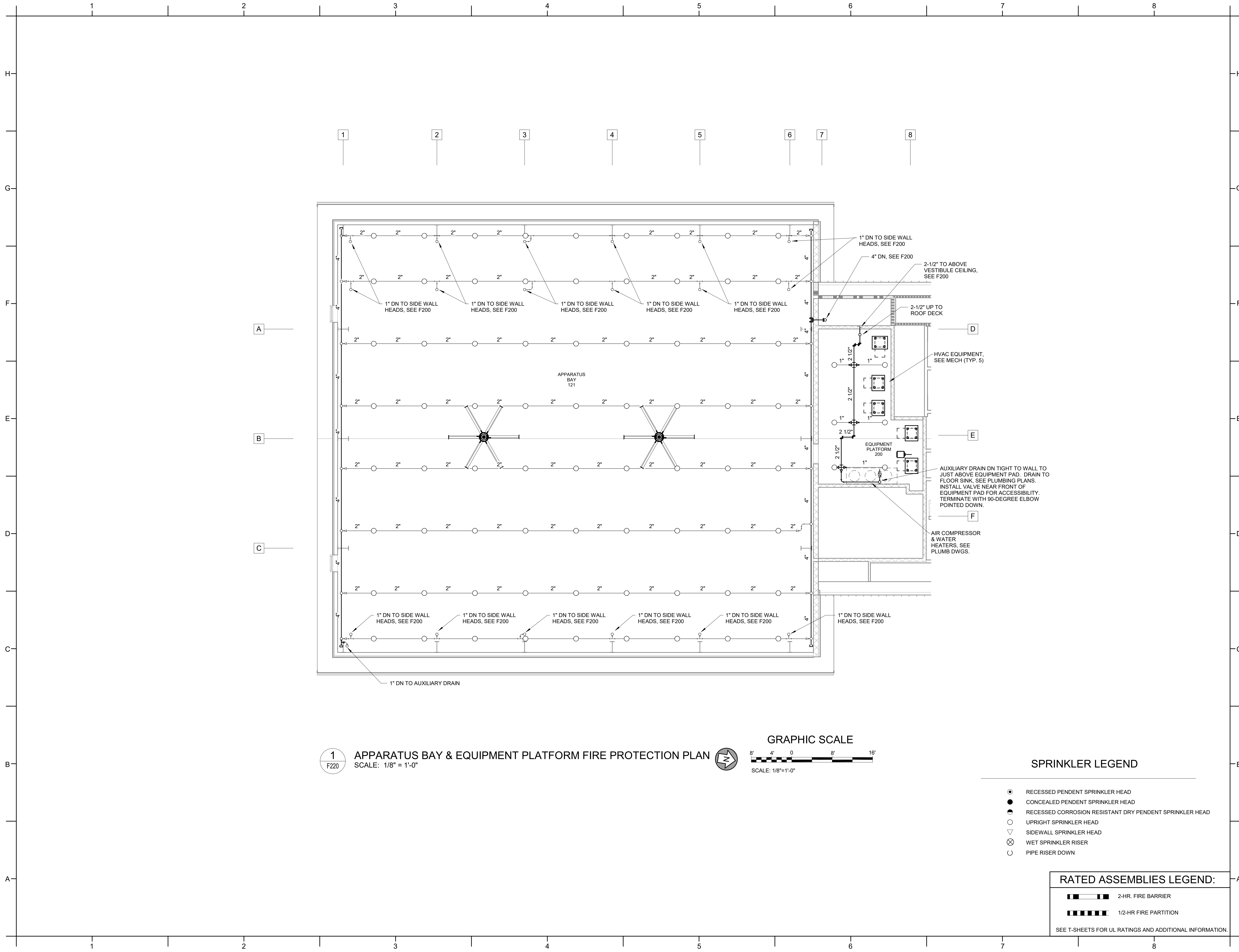
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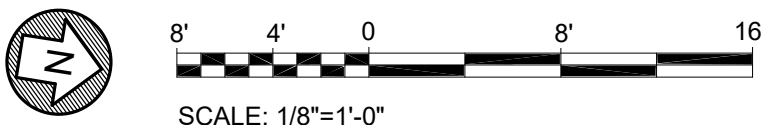
SHEET TITLE

APPARTUS BAY & EQUIP. PLATFORM FIRE PROTECTION

F220



1 APPARTUS BAY & EQUIP. PLATFORM FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"



SPRINKLER LEGEND

- RECESSED PENDENT SPRINKLER HEAD
- CONCEALED PENDENT SPRINKLER HEAD
- RECESSED CORROSION RESISTANT DRY PENDENT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- WET SPRINKLER RISER
- PIPE RISER DOWN

RATED ASSEMBLIES LEGEND:

- 2-HR. FIRE BARRIER
- 1/2-HR FIRE PARTITION

SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.



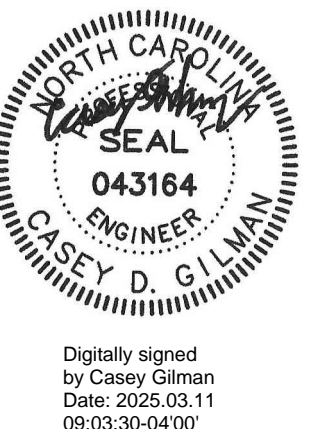
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Table with 2 columns: Description, Date/By

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SHEET TITLE PLUMBING LEGEND, SCHEDULES, AND DETAILS

P001

LEGEND

Legend table listing symbols for piping types (Waste, Water, Vent, etc.) and valves.

PLUMBING FIXTURE SCHEDULE

Plumbing Fixture Schedule table with columns: SYMBOL, DESCRIPTION, ROUGH-IN SIZES (WASTE, C.W., H.W.), REMARKS.

NOTE: MIXING VALVES SHALL BE PROVIDED AT ALL LAVATORIES AND SINKS. SEE SPECIFICATIONS.

WATER HEATER SCHEDULE

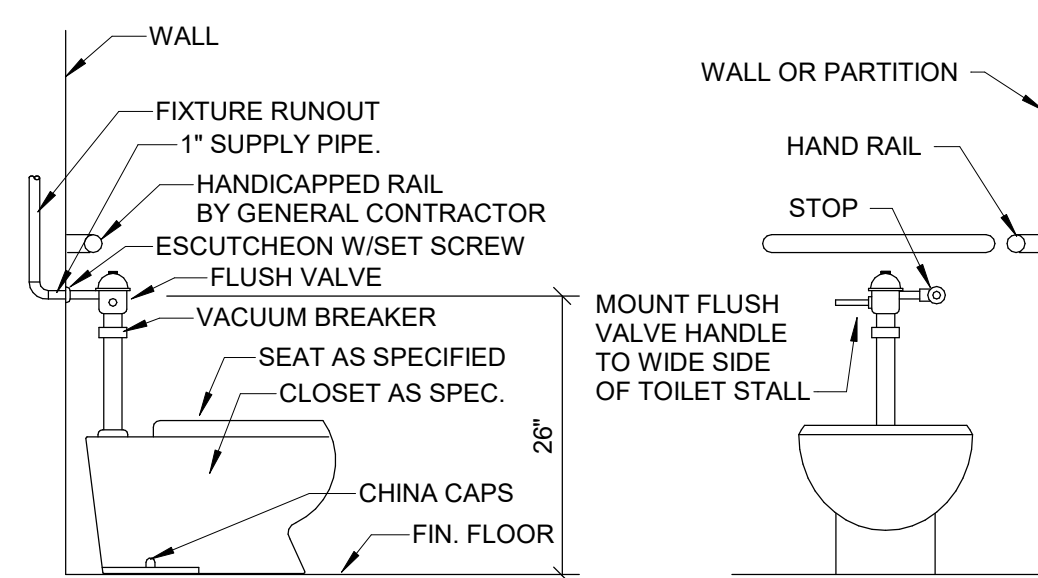
Water Heater Schedule table with columns: SYMBOL, QTY., DESCRIPTION, ROUGH-IN SIZES, TEMP. SETTING, STORAGE CAPACITY, RECOVERY, FUEL, LOAD, ELEC., DETAIL.

CIRCULATOR PUMP SCHEDULE

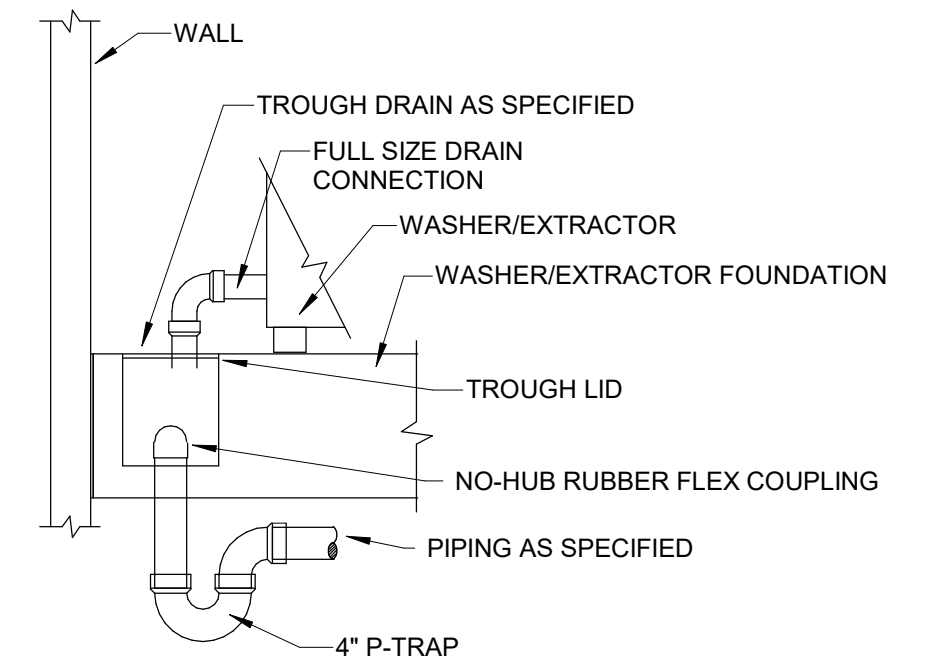
Circulator Pump Schedule table with columns: SYMBOL, GPM, THD, ELECTRICAL (HP, VOLTAGE), LOCATION, SERVICE, CONTROL.

AIR COMPRESSOR SCHEDULE

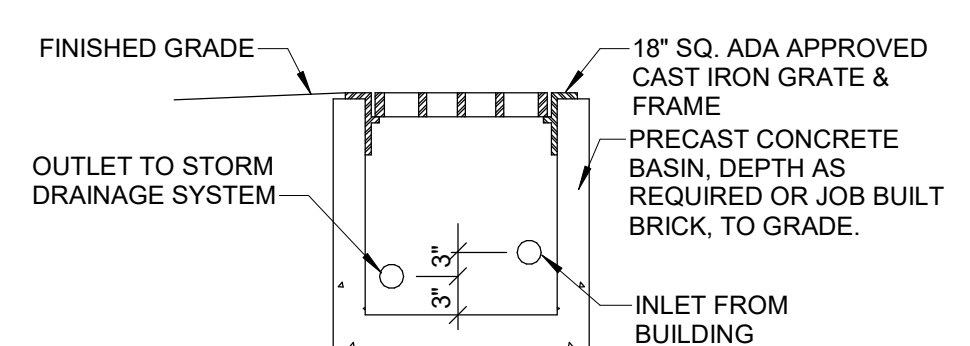
Air Compressor Schedule table with columns: SYMBOL, DESCRIPTION, STAGES, TANK CAPACITY, CAPACITY, MOTOR HP, MOTOR RPM, ELEC.



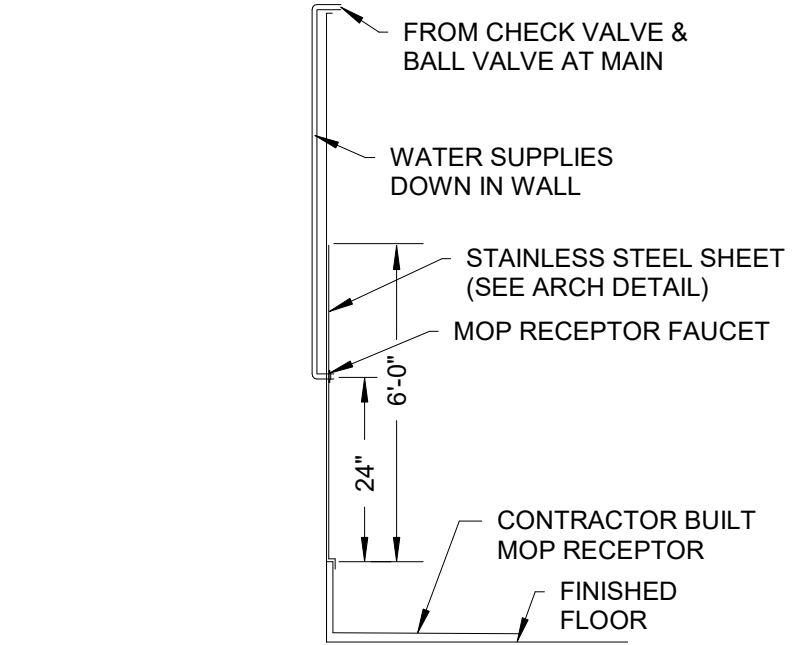
A ADA WATER CLOSET (WC-1) DETAIL SCALE: NONE



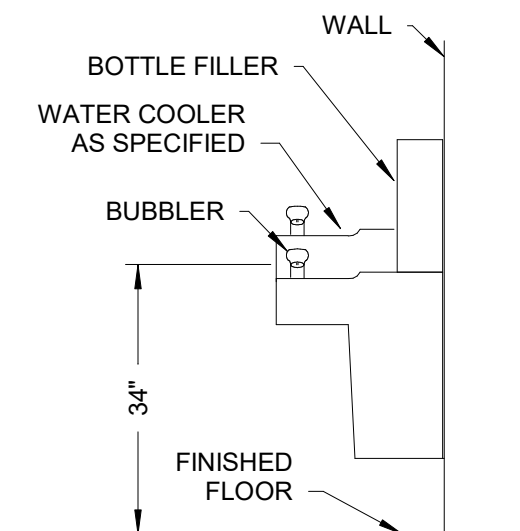
B WASHER/EXTRACTOR (TD-2) WASTE DETAIL SCALE: NONE



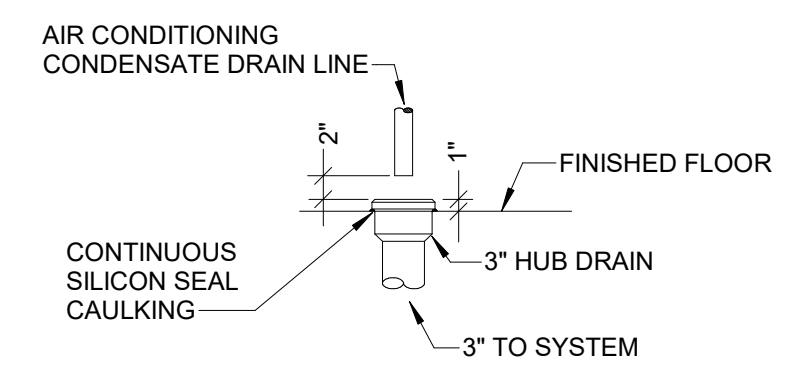
C CONDENSATE RELIEF BASIN SCALE: NONE



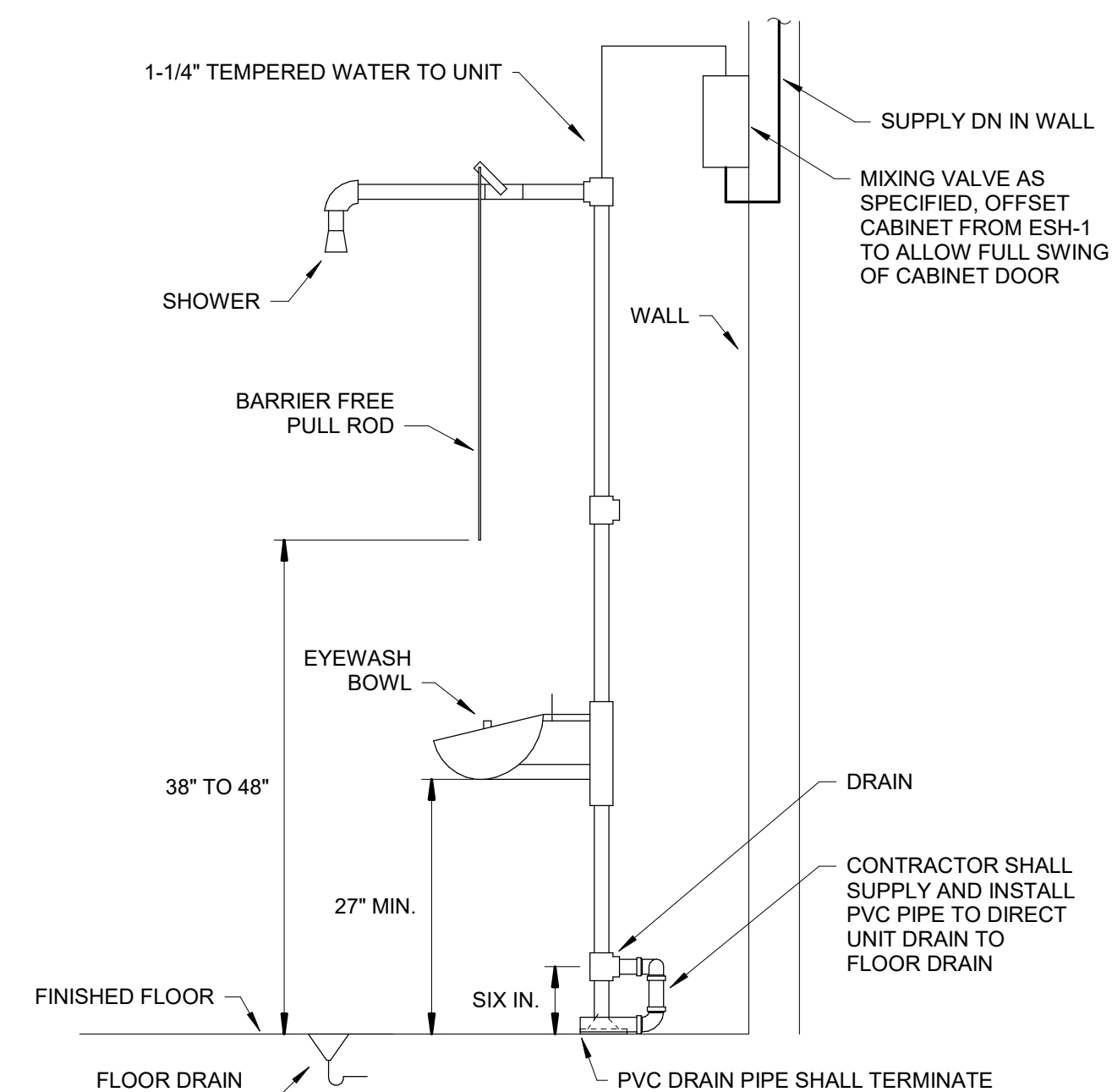
D MOP RECEPTOR (MR-1) DETAIL SCALE: NONE



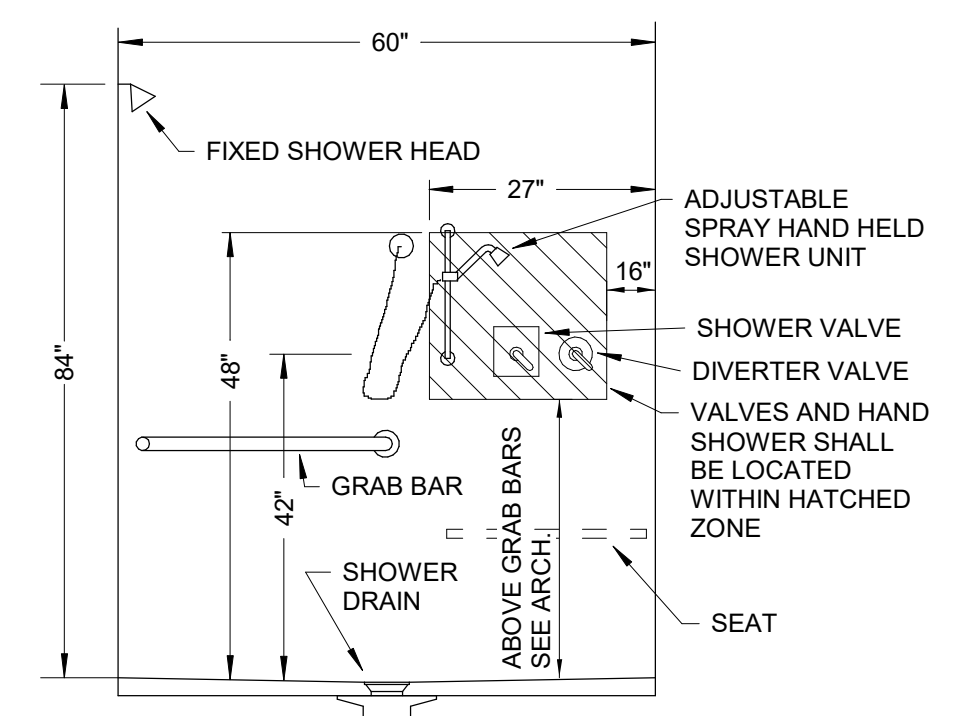
E ADULT DUAL HEIGHT EWC (EWC-1) DETAIL SCALE: NONE



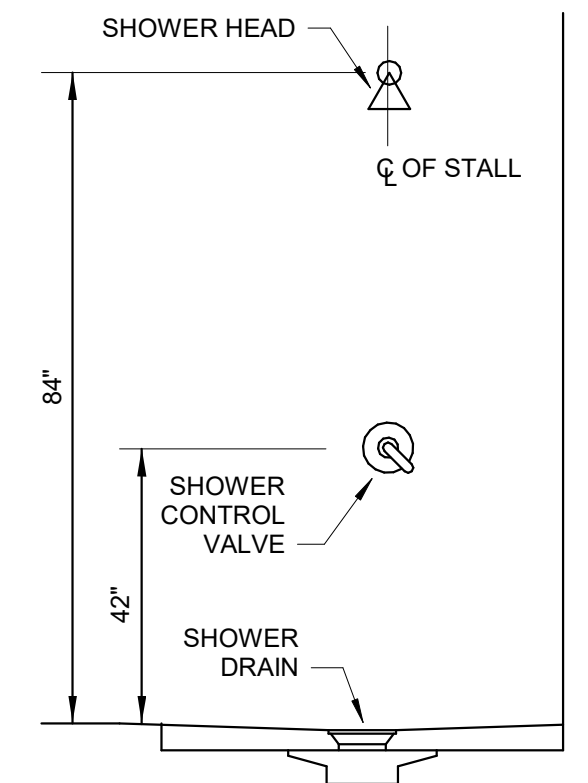
F HUB DRAIN (HD-1) DETAIL SCALE: NONE



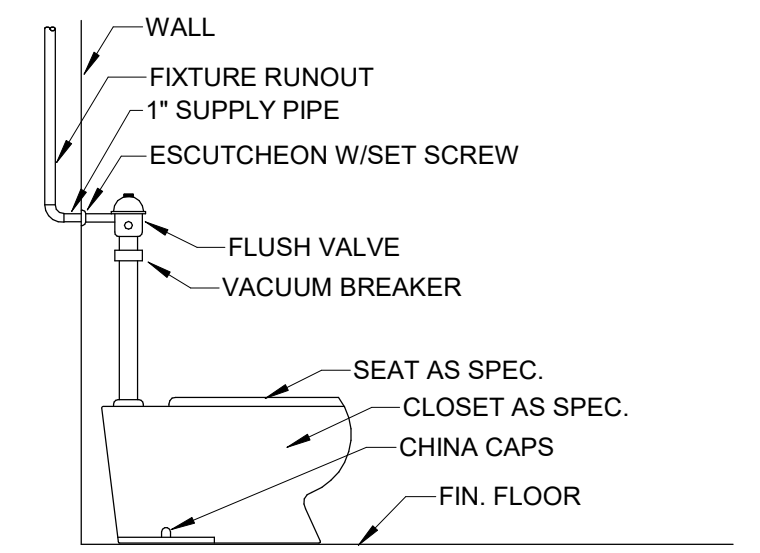
H EMERGENCY EYEWASH/SHOWER DETAIL SCALE: NONE



J ADULT ADA ROLL-IN SHOWER (SH-1) DETAIL SCALE: NONE



K ADULT STANDARD SHOWER (SH-2) DETAIL SCALE: NONE



L ADULT WATER CLOSET (WC-2) DETAIL SCALE: NONE



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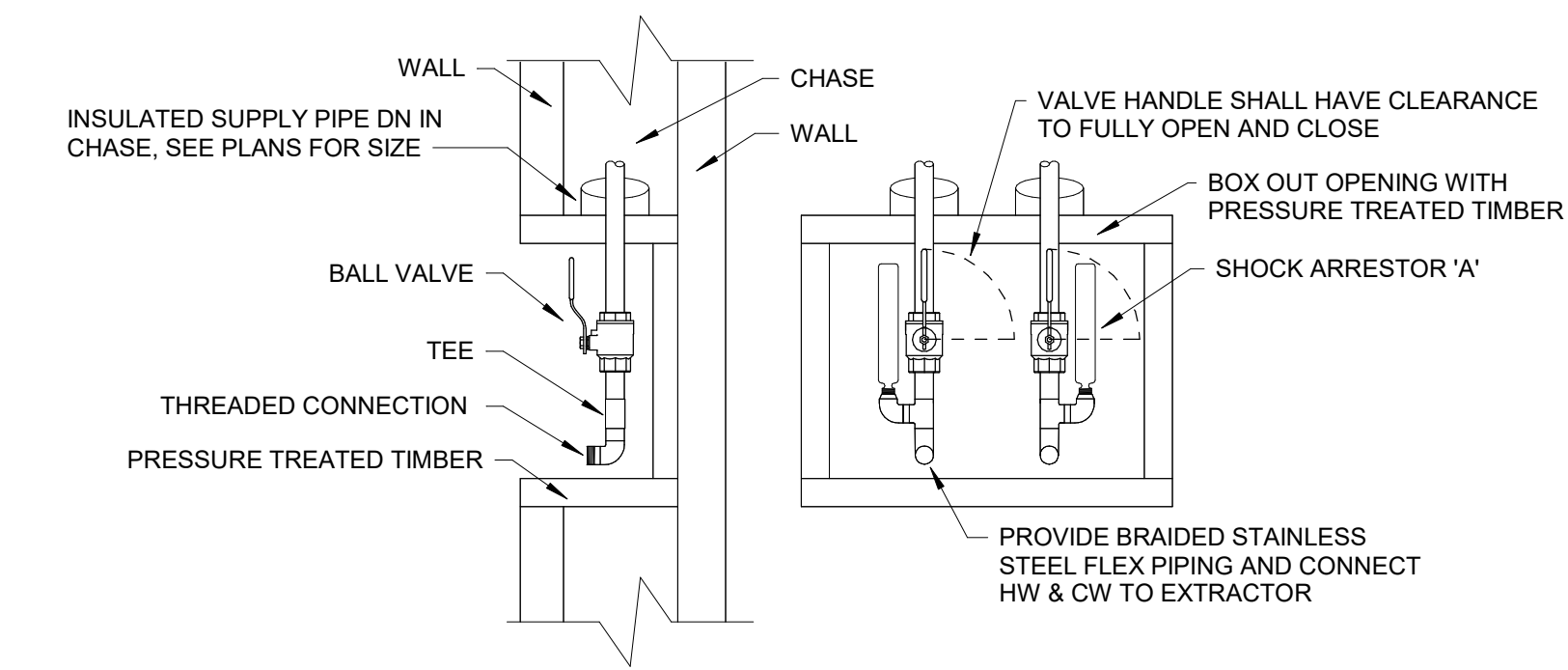
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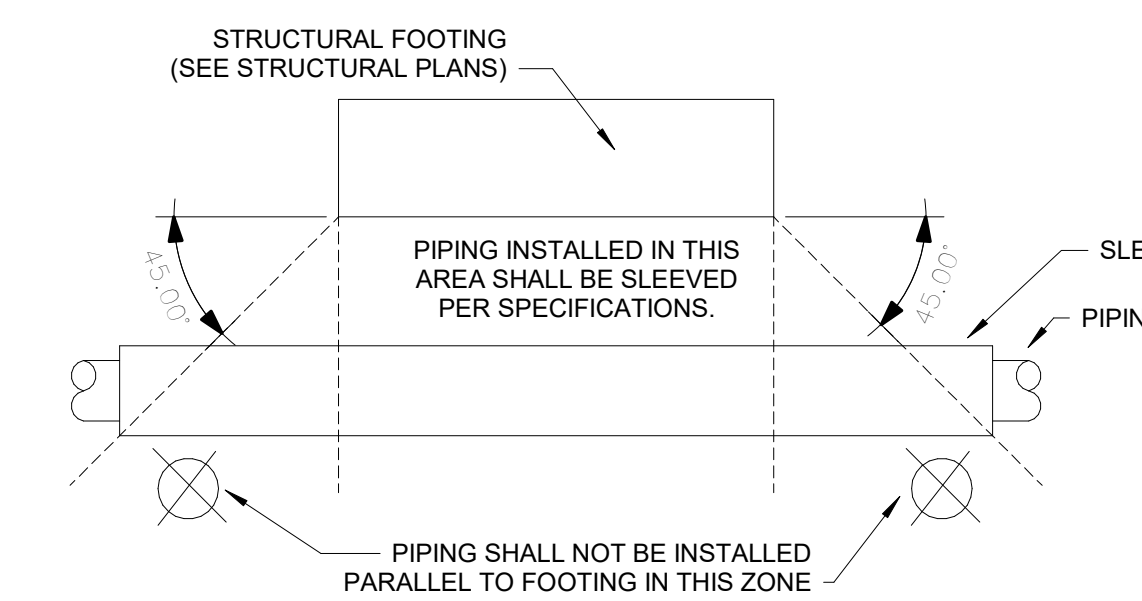
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SHEET TITLE
PLUMBING DETAILS

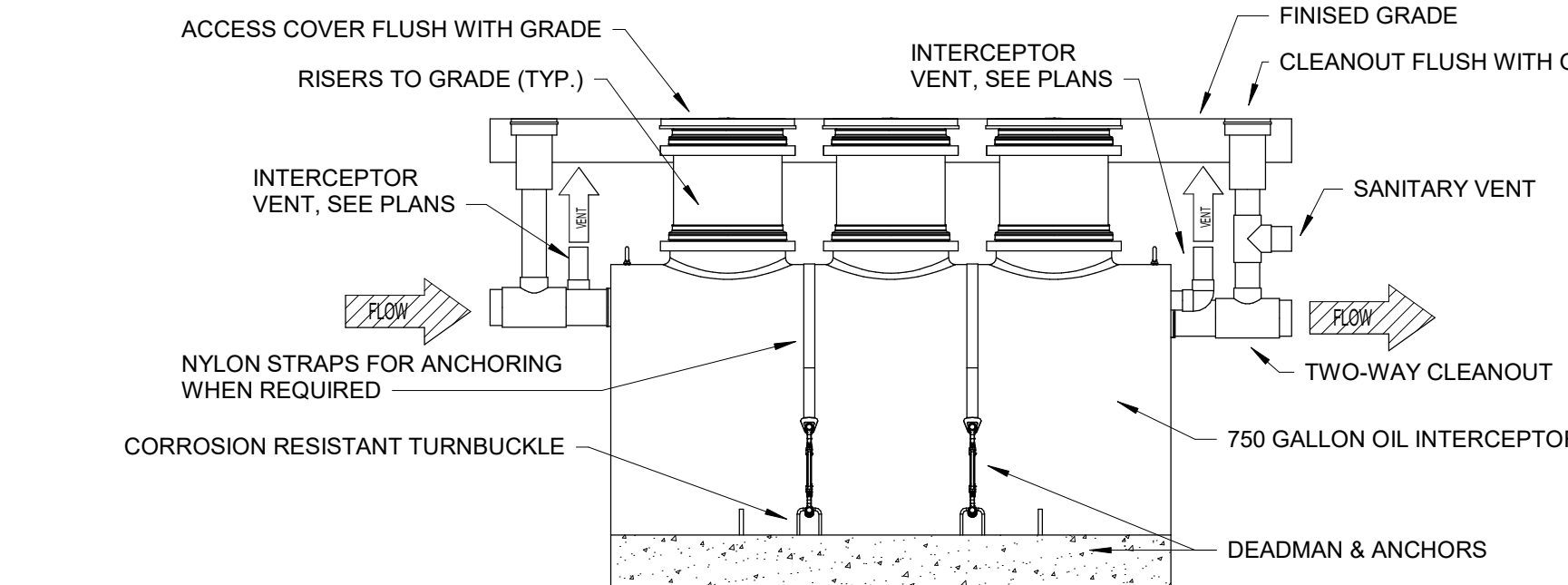
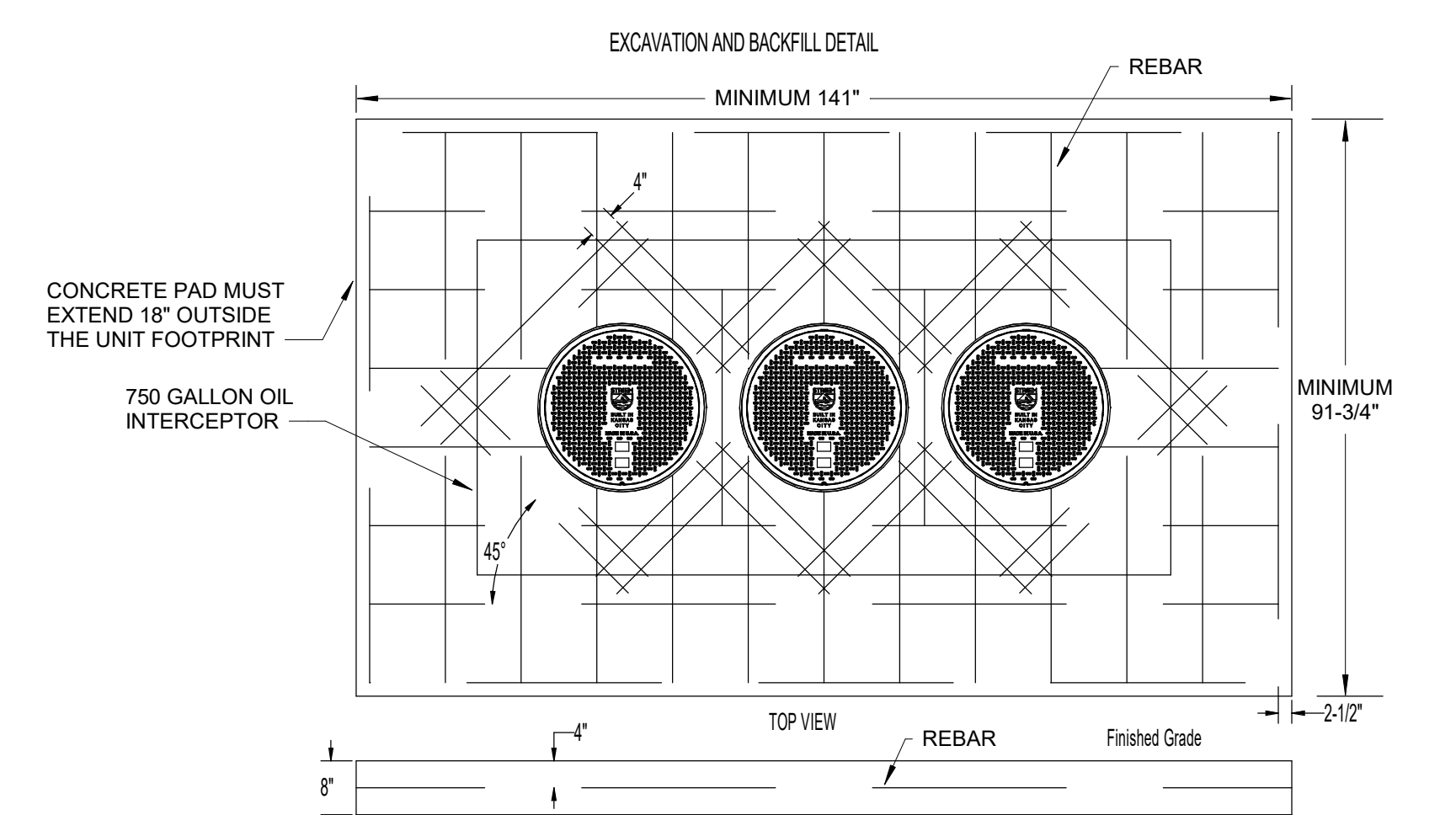
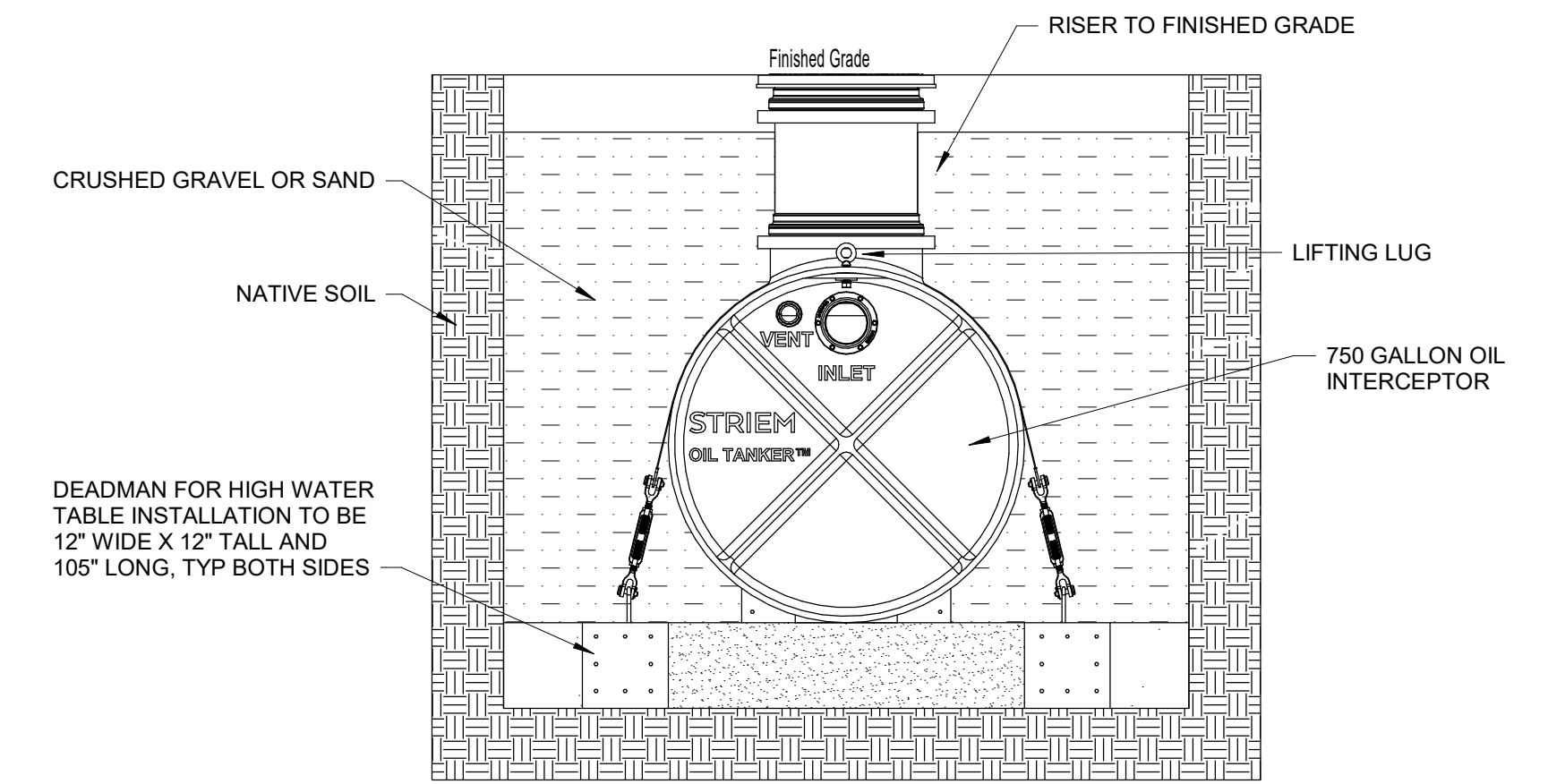
P002



F DECON WASHER VALVE DETAIL
SCALE: NONE

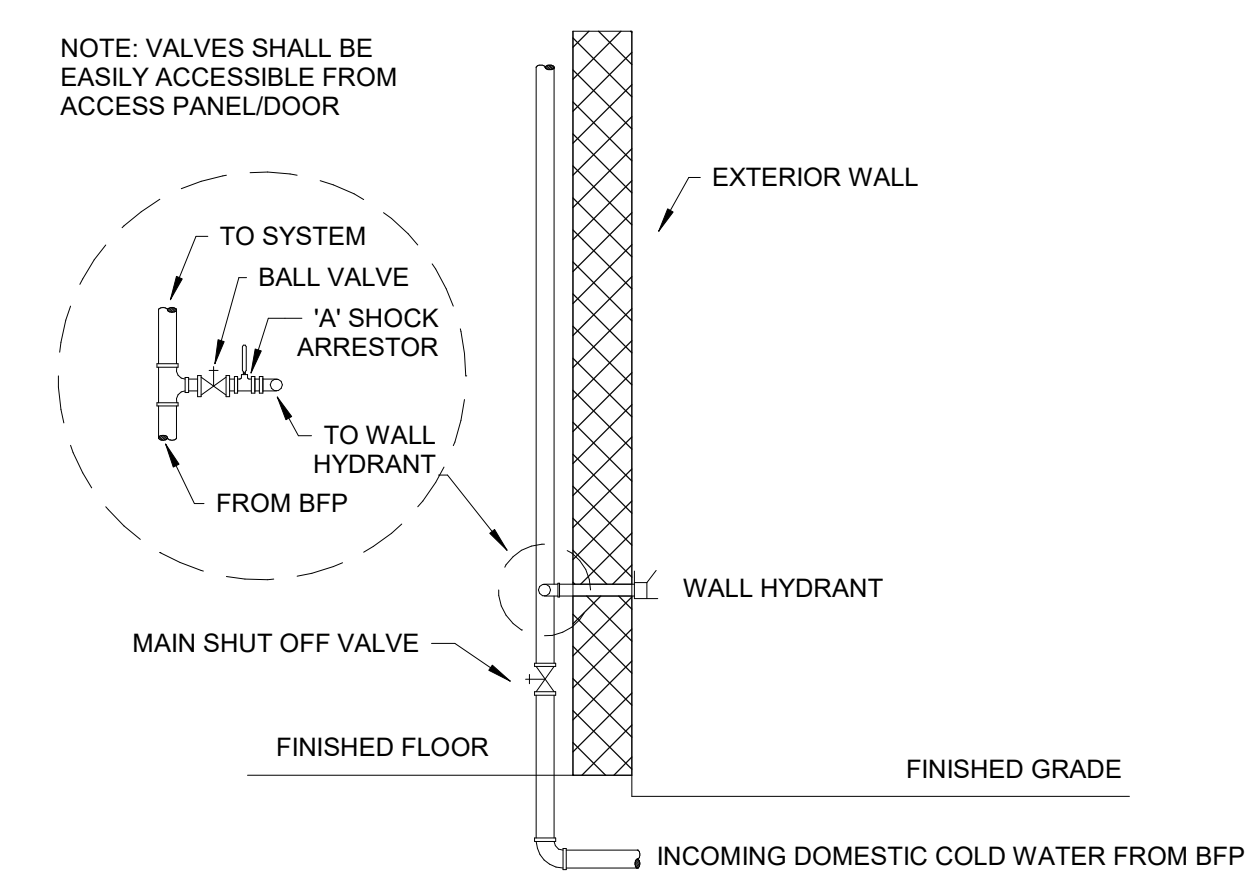


D PIPING UNDER FOOTINGS
SCALE: NO SCALE

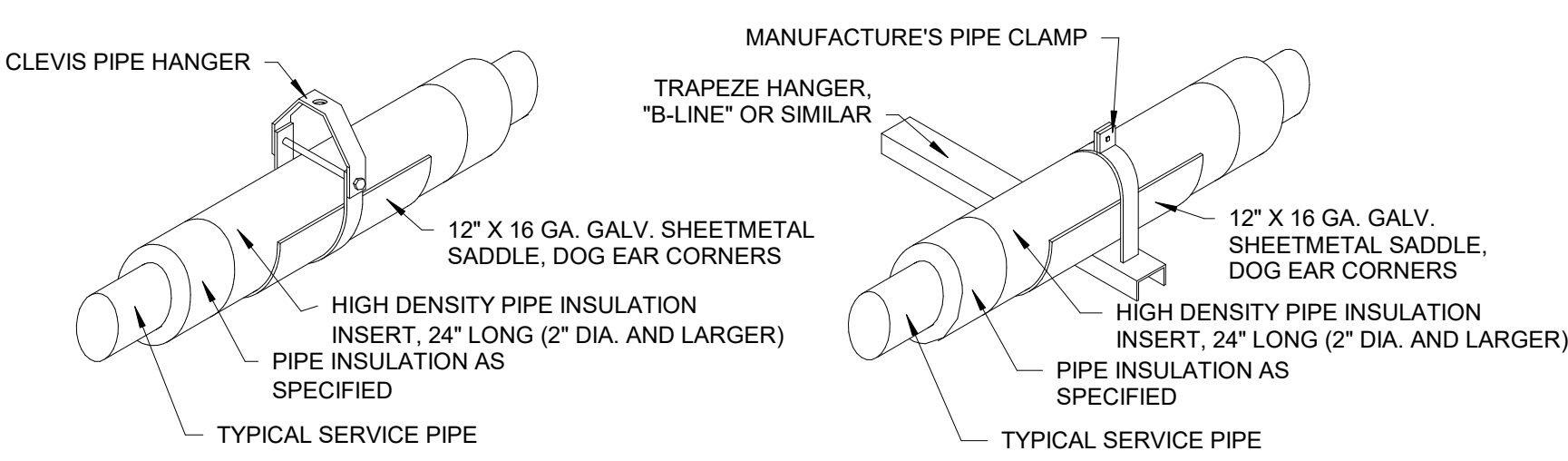


DESCRIPTION	INLET/OUTLET	MINIMUM CAPACITY (GAL)			H2O RATED
		WATER	OIL	SEDIMENT	
OIL SEPERATOR	4"	132	323	295	YES

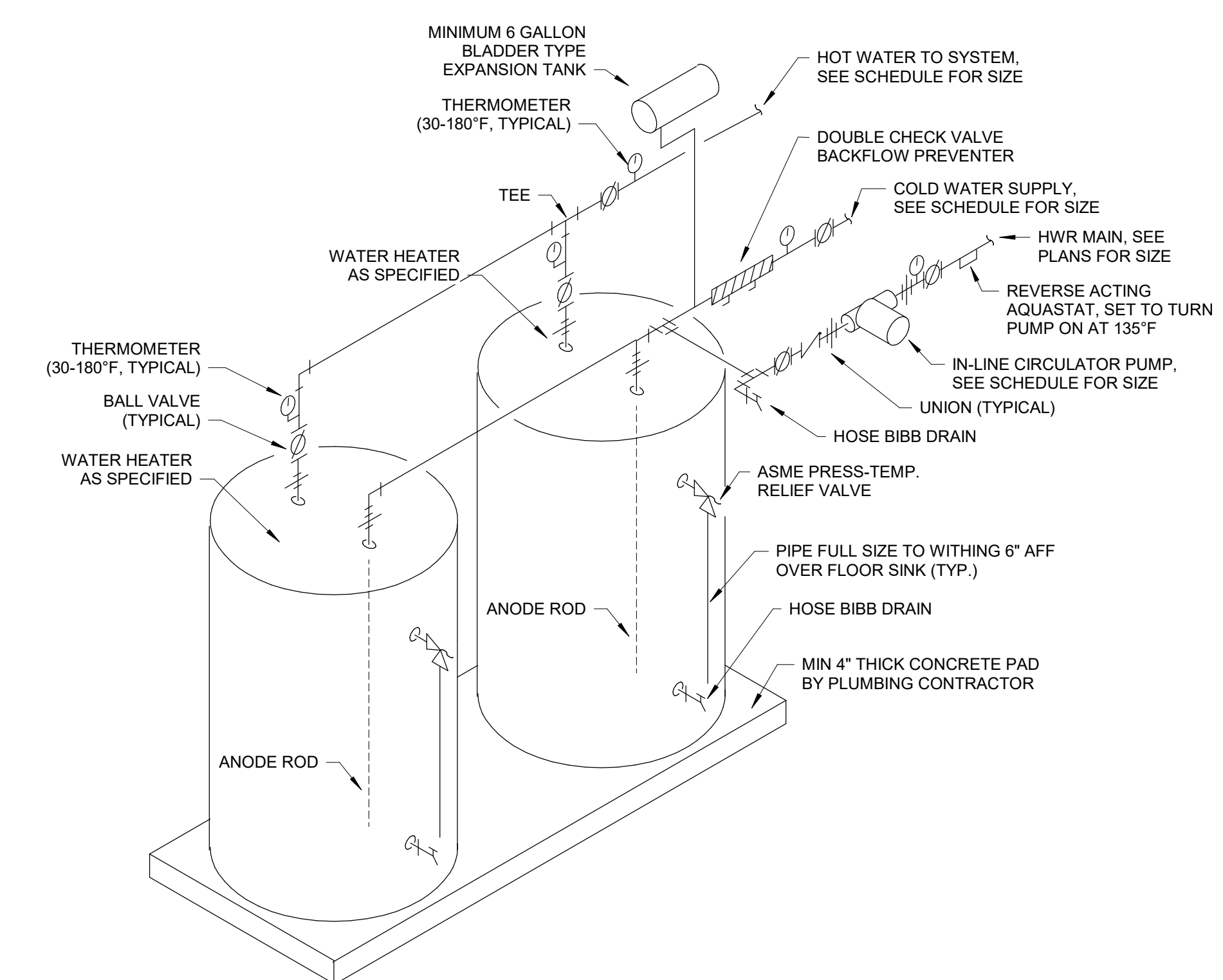
E OIL & SAND SEPERATOR DETAIL
SCALE: NONE



C DOMESTIC WATER ENTRANCE DETAIL
SCALE: NONE



B PIPE HANGER DETAILS
SCALE: NONE



A WATER HEATER (WH-1) PIPING DETAIL
SCALE: NONE



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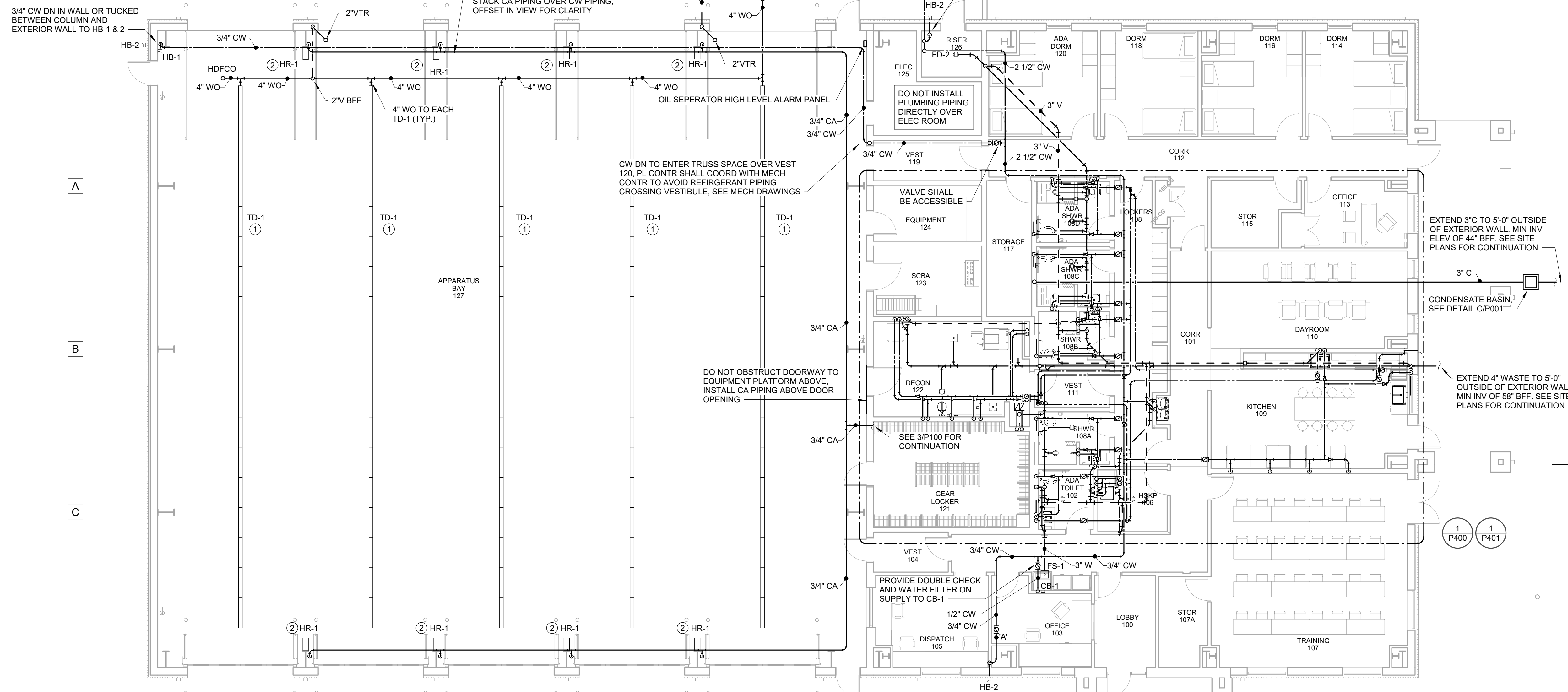
BID DOCUMENTS

03/12/2025

SHEET TITLE

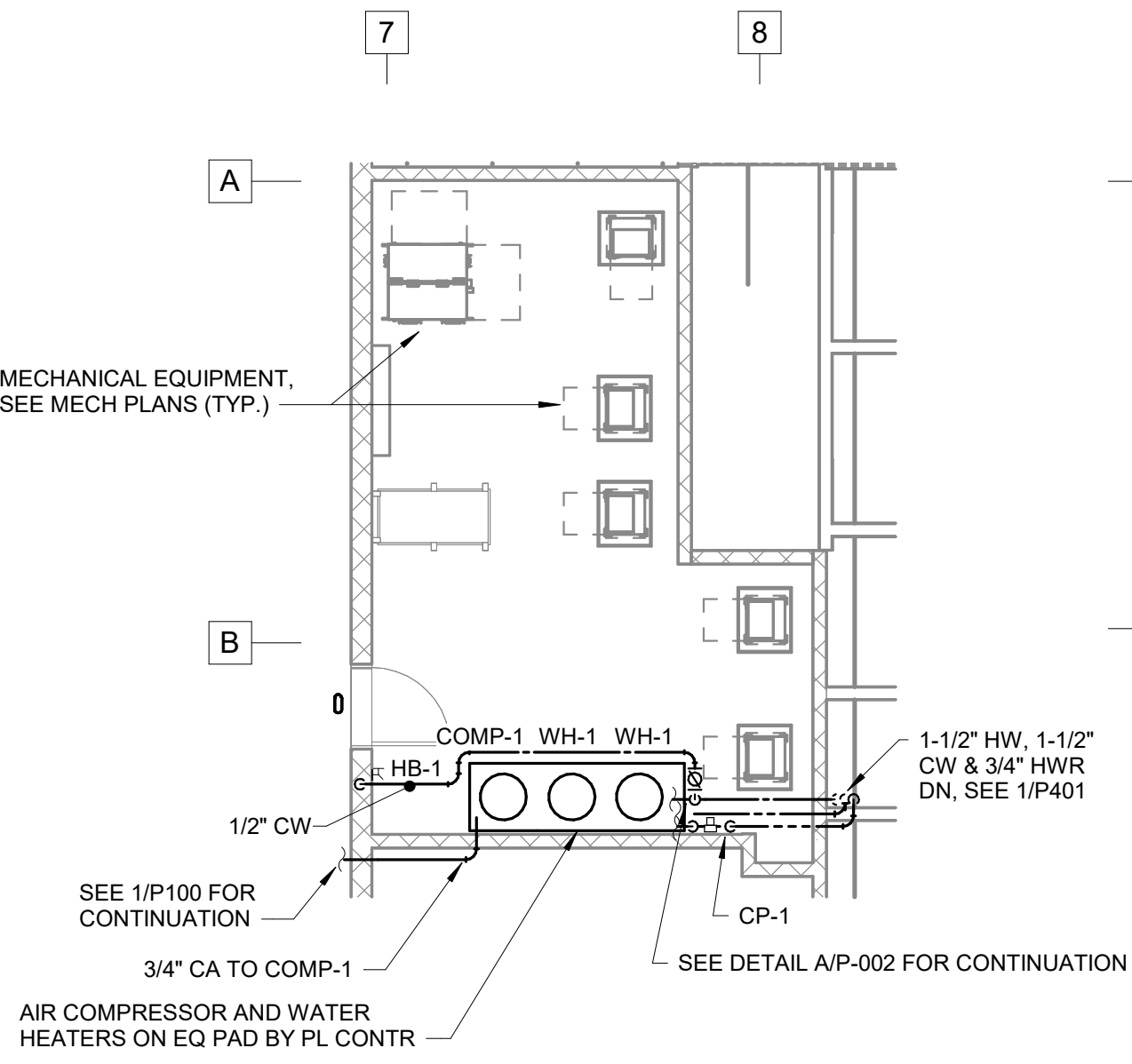
PLUMBING PLANS

P100

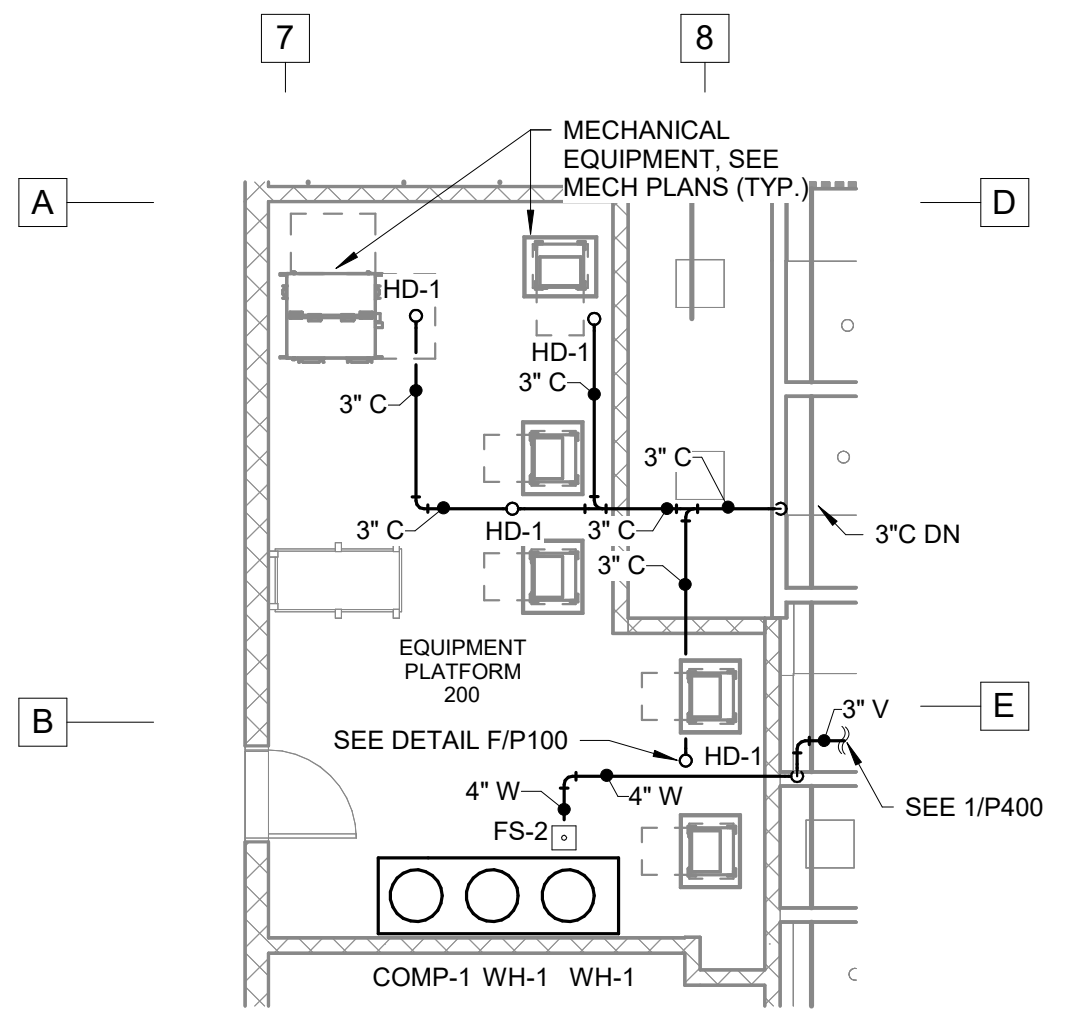


1 PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"

- KEY NOTES:
- 1 4"WO TO TD-1, SEE ARCHITECTURALS FOR DIMENSIONS
 - 2 3/4"CA TO HR-1, ROUTE CA TIGHT TO STRUCTURE AND IN COLUMN FOOTPRINT TO PREVENT ACCIDENTAL DAMAGES

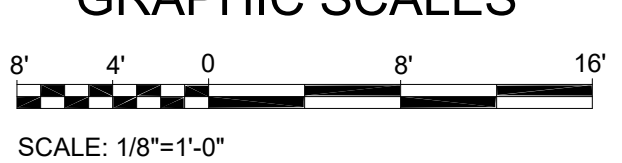


3 PLUMBING EQUIPMENT PLATFORM PLAN - DOMESTIC WATER
SCALE: 1/8" = 1'-0"



2 PLUMBING EQUIPMENT PLATFORM PLAN - WASTE & VENT
SCALE: 1/8" = 1'-0"

GRAPHIC SCALES



RATED ASSEMBLIES LEGEND:

- 2-HR. FIRE BARRIER
- 1/2-HR. FIRE PARTITION

SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.



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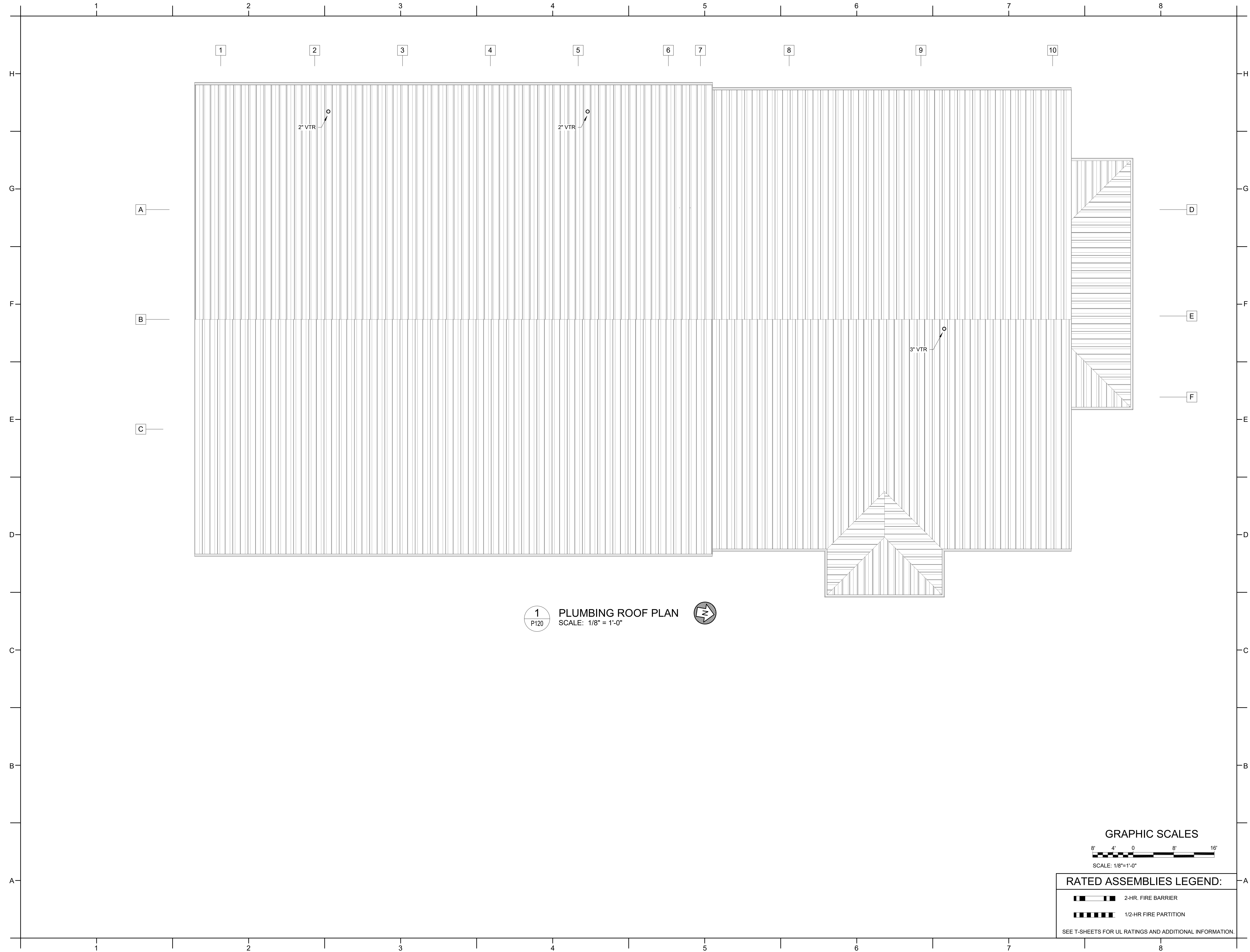
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SHEET TITLE

PLUMBING ROOF PLAN

P120



1 PLUMBING ROOF PLAN
P120 SCALE: 1/8" = 1'-0"

GRAPHIC SCALES



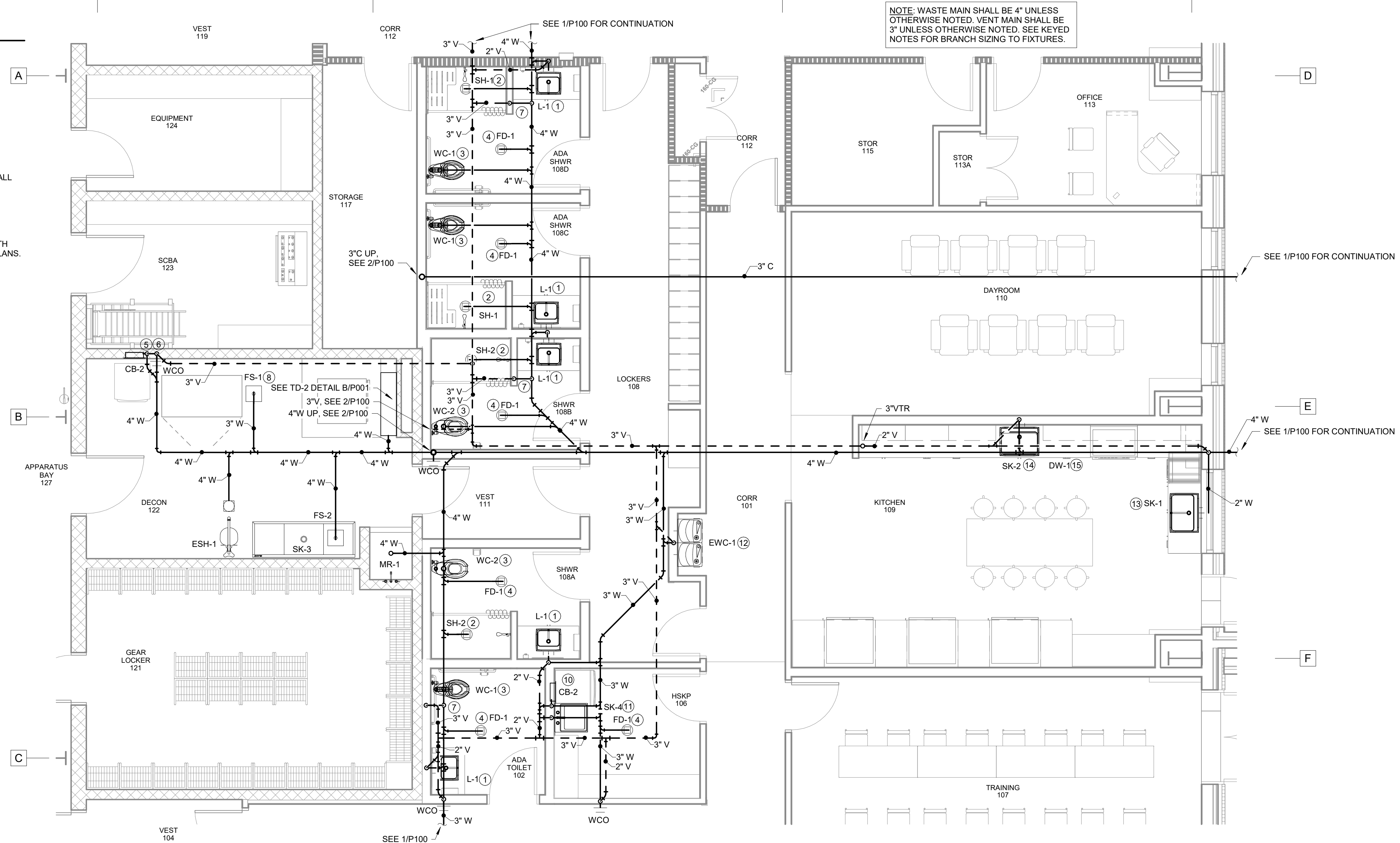
RATED ASSEMBLIES LEGEND:

- 2-HR. FIRE BARRIER
- 1/2-HR FIRE PARTITION

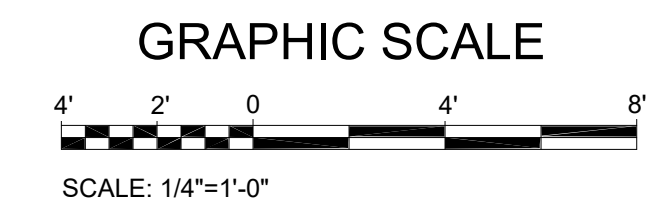
SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.

KEY NOTES:

- 1) 2"W & V TO L-1
- 2) 2"W TO SH-1 OR SH-2
- 3) 4"W TO WC-1 OR WC-2.
- 4) 2"W TO FD-1
- 5) 3"W UP IN WALL, 2"V SHALL RISE A MIN OF 6" ABOVE WASHER BEFORE CONNECTING TO ADJACENT VENT RISE, 2"W TO CB-2
- 6) 4"W TO WCO & 3" WET VENT UP TO VENT MAIN
- 7) 3" CIRCUIT VENT FROM WASTE MAIN BFF, RISE IN NEAREST WALL TO ABOVE CEILING AS INDICATED
- 8) 3"W TO FS-1
- 9) NOT USED
- 10) 3"W UP IN WALL, 2"W TO CB-2 & 2" V UP, COORDINATE CB-2 WITH DRYER DUCT & MECHANICAL CONTRACTOR, SEE MECH PLANS.
- 11) 2"W & V TO SK-4
- 12) 2"W & V TO EWC-1
- 13) 2"W & V TO SK-1, 2"W SHALL RISE ADJACENT TO WINDOW AND OFFSET BELOW WINDOW TO SK-1
- 14) 2"W & V TO SK-2
- 15) CONNECT DW-1 TO WASTE SERVING SK-2 PER DISHWASHER MANUFACTURERS INSTALLATION INSTRUCTIONS



1
P400 ENLARGED WASTE & VENT
SCALE: 1/4" = 1'-0"



RATED ASSEMBLIES LEGEND:

	2-HR. FIRE BARRIER
	1/2-HR. FIRE PARTITION

SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.



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SHEET TITLE
ENLARGED WASTE & VENT

P400



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SHEET TITLE

ENLARGED DOMESTIC WATER

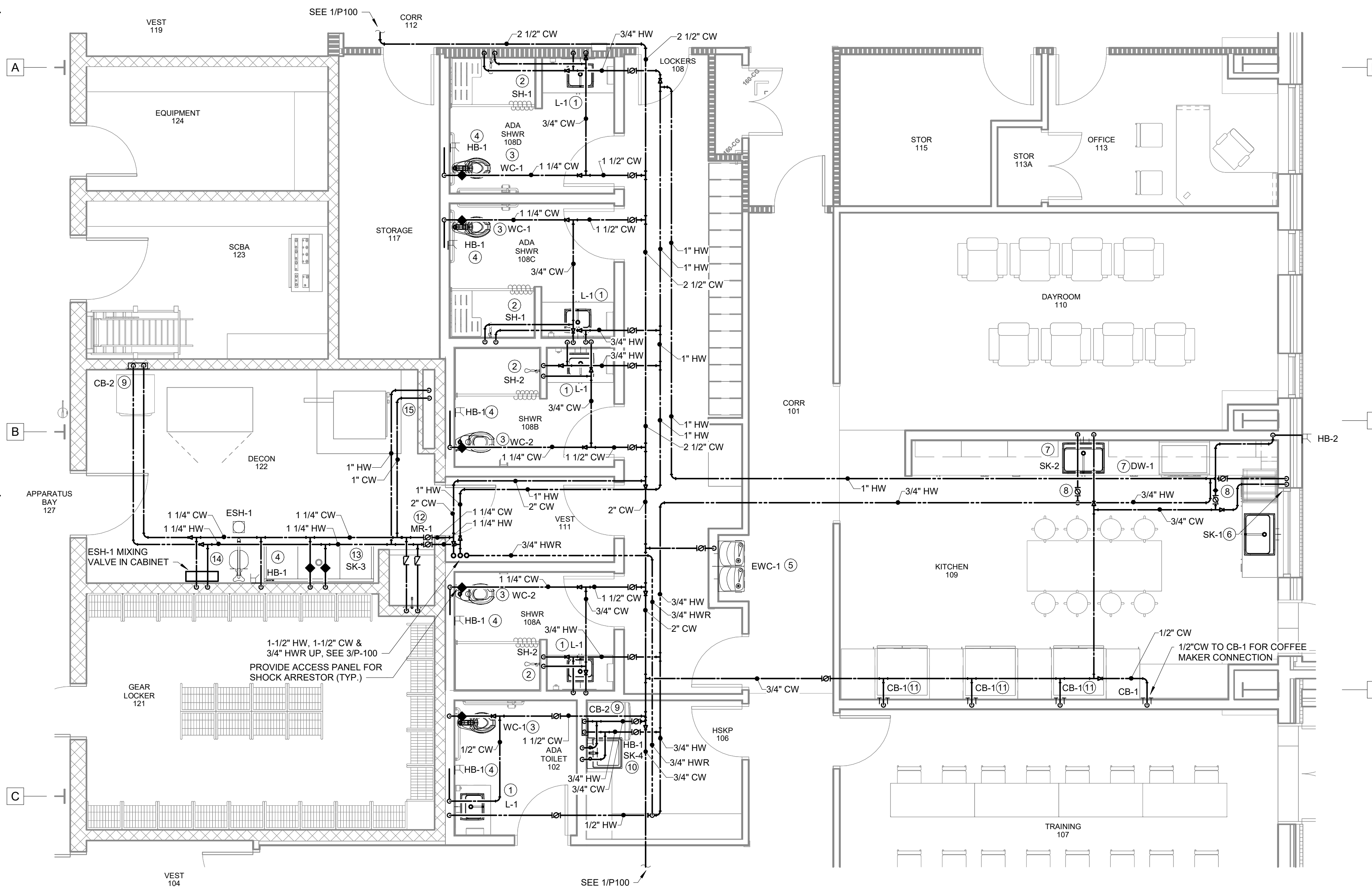
P401

KEY NOTES:

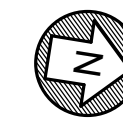
- 1 1/2" HW & CW TO L-1
- 2 1/2" HW & CW TO SH-1 OR SH-2
- 3 1-1/4" CW TO WC-1 OR WC-2. PROVIDE SHOCK ARRESTOR 'A' WITH ACCESS PANEL ABOVE HARD CEILING. LOCATE ARRESTOR AS CLOSE TO WC AS FEASIBLE.
- 4 1/2" CW TO HB-1
- 5 1/2" CW TO EWC-1
- 6 1/2" HW & CW DN IN WALL ADJACENT TO WINDOW AND OVER TO SK-1 BELOW WINDOW
- 7 1/2" HW & CW TO SK-2. CONNECT DW-1 TO HW SERVING SK-2 PER MANUFACTURERS INSTALLATION INSTRUCTIONS
- 8 COORDINATE VALVE LOCATION WITH SOFFIT
- 9 1/2" HW & CW TO CB-2. COORDINATE CONNECTION BOX WITH DRYER DUCT AND MECHANICAL CONTRACTOR
- 10 1/2" HW & CW TO SK-4 & 1/2" CW TO HB-1 BELOW SK-4
- 11 1/2" CW TO CB-1
- 12 3/4" HW & CW WITH CHECK VALVES TO MR-1
- 13 3/4" HW & CW WITH 'A' SHOCK ARRESTOR TO SK-3
- 14 1-1/4" HW & CW TO MIXING VALVE SERVING ESH-1. ROUTE TEMPERED WATER FROM MIXING VALVE TO ESH-1
- 15 1" HW & CW TO VALVE BOX BY PLUMBING CONTRACTOR, SEE DETAIL F/P-002

GENERAL NOTES:

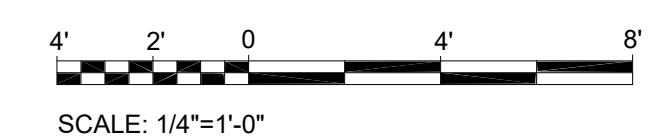
- 1. ALL VALVE SHALL BE LOCATED ABOVE DROP IN CEILINGS WHERE FEASIBLE. VALVES SHALL BE LOCATED NO HIGHER THAN 12" ABOVE CEILING GRID ELEVATION. PROVIDE ACCESS PANELS WHERE REQUIRED.
- 2. PROVIDE SHOCK ARRESTORS FOR ALL WATER CLOSETS AND WALL HYDRANTS. LOCATE SHOCK ARRESTORS PER MANUFACTURERS INSTALLATION INSTRUCTIONS. PROVIDE ACCESS PANEL WHERE ARRESTORS ARE LOCATED ABOVE HARD CEILINGS OR IN WALL.



1 ENLARGED DOMESTIC WATER
P401 SCALE: 1/4" = 1'-0"



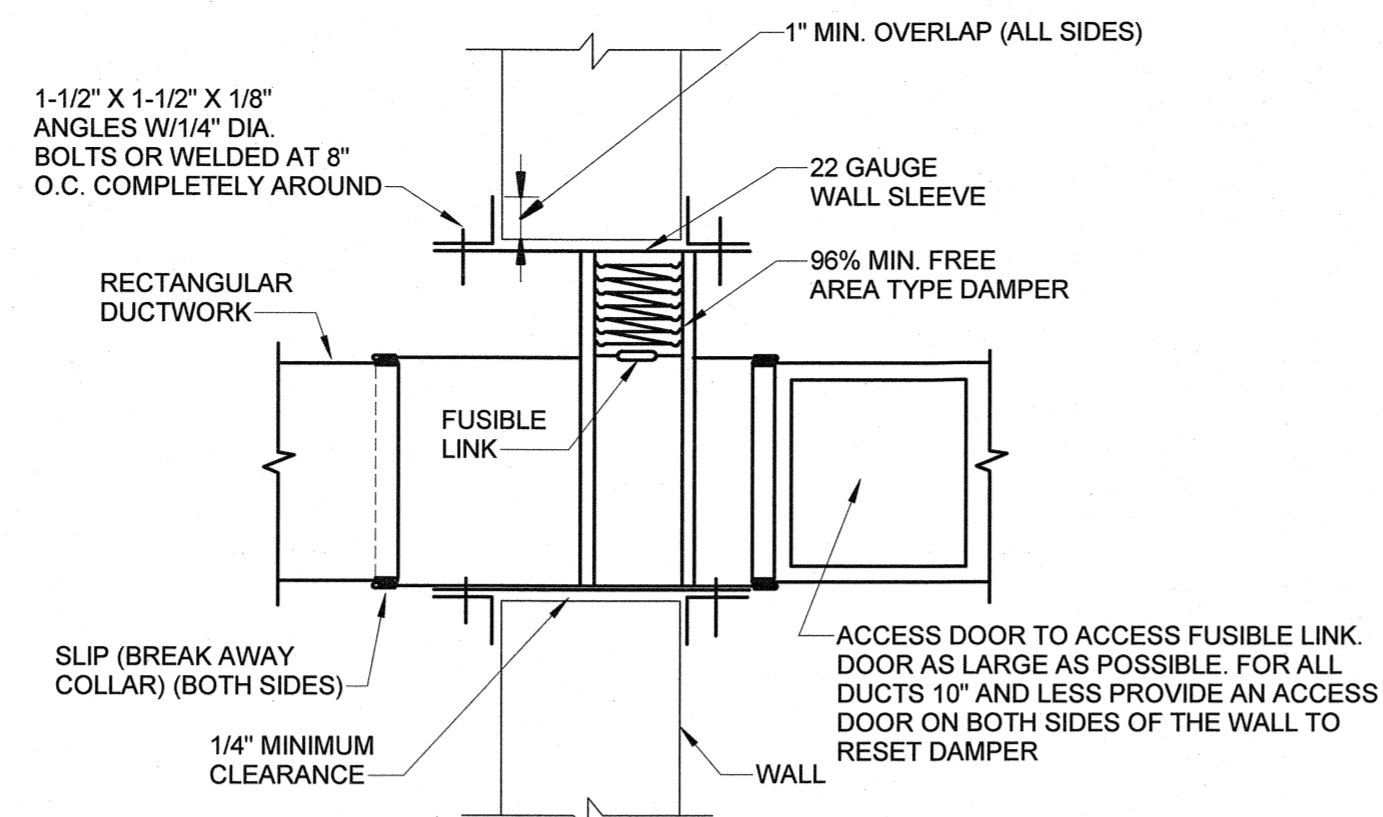
GRAPHIC SCALE



RATED ASSEMBLIES LEGEND:

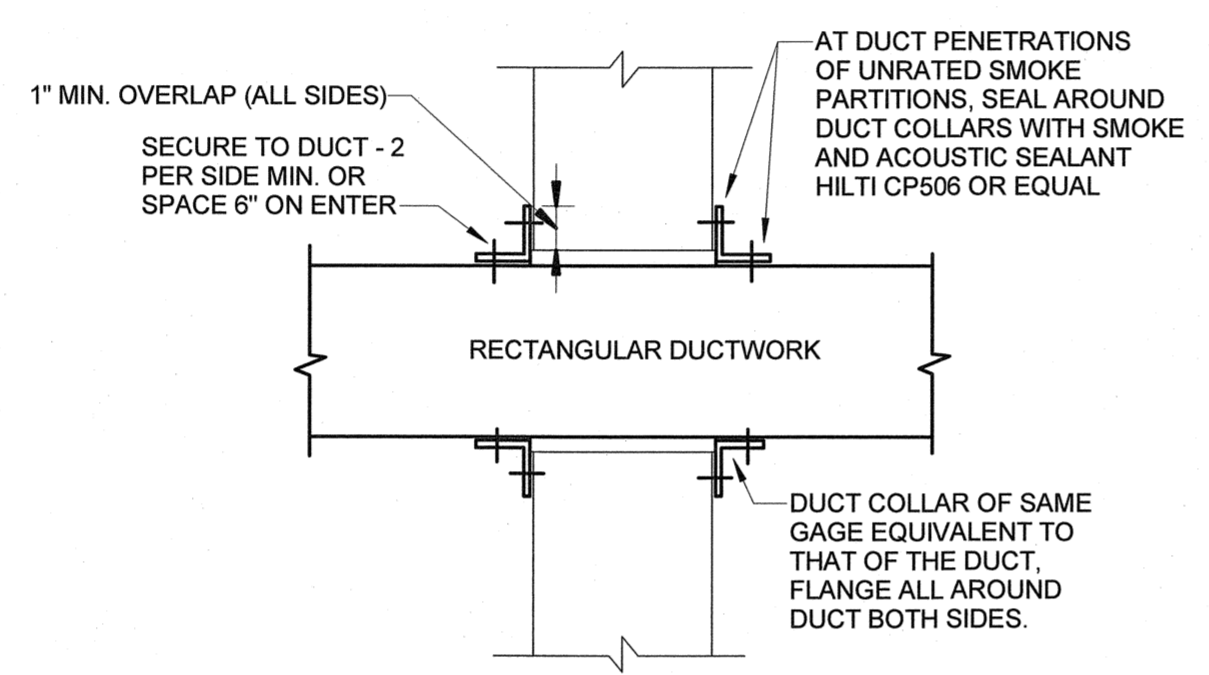
- 2-HR. FIRE BARRIER
- 1/2-HR. FIRE PARTITION

SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.

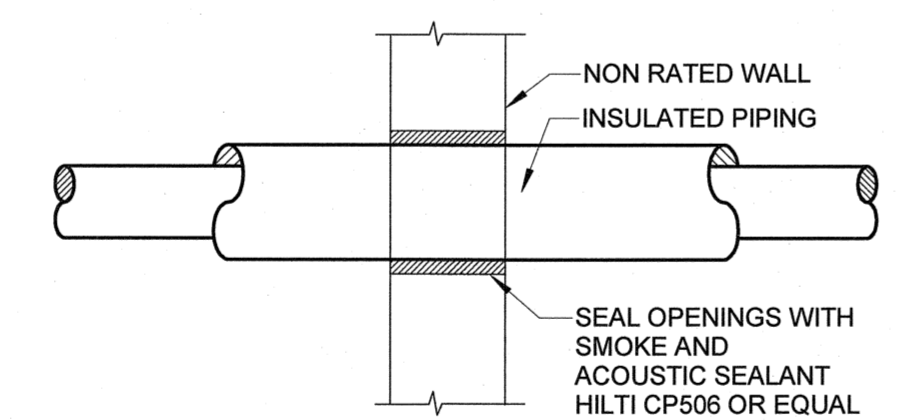


NOTE: DETAIL FOR REFERENCE ONLY. DAMPERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

1 TYPICAL VERTICAL FIRE DAMPER DETAIL
M001 SCALE: NONE



2 NON-RATED WALLS DUCT PENETRATION DETAIL
M001 SCALE: NONE



3 NON-RATED WALLS PIPE PENETRATION DETAIL
M001 SCALE: NONE

LEGEND

— R —	REFRIGERANT PIPING
— C —	AIR CONDITIONING CONDENSATE PIPING
— PC —	PUMPED CONDENSATE PIPING
▭	RECTANGULAR DUCTWORK
▭	SUPPLY AIR DUCTWORK TURNED DOWN
▭	SUPPLY AIR DUCTWORK TURNED UP
▭	RETURN AIR/EXHAUST AIR TURNED DOWN
▭	RETURN AIR/EXHAUST AIR TURNED UP
▭	SINGLE WALL SPIRAL DUCTWORK
▭	BRANCH TAKEOFF WITH TURNING VANES, SPLITTER DAMPER AND LOCKING QUADRANT
▭	DUCT TEE WITH TURNING VANES
▭	DUCT WITH RUNOUT (SPIN-IN TAKE OFF WITH DAMPER)
▭	CEILING RETURN AIR/ EXHAUST AIR REGISTER
▭	CEILING SUPPLY AIR DIFFUSER
▭	REGISTER, GRILLE OR DIFFUSER SYMBOL
▭	NITROGEN DIOXIDE MONITOR
▭	MOTOR OPERATED TWO POSITION ELECTRIC
▭	CARBON MONOXIDE MONITOR
▭	HEATING, COOLING THERMOSTAT WITH # INDICATING UNIT
▭	HEATING, COOLING & RH SENSOR WITH # INDICATING UNIT
▭	DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR
▭	KEYED NOTE SYMBOL
▭	FIRE DAMPER (1-1/2 HOUR RATED) MOUNTED IN WALL WITH DUCT ACCESS DOOR AND CEILING ACCESS DOOR (18"x16" MIN.) WHERE NECESSARY.
SA	SUPPLY AIR
RA	RETURN AIR
OA	OUTSIDE AIR
EX.A	EXHAUST AIR
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
MD	MANUAL DAMPER
MOD	MOTOR OPERATED DAMPER
AFF	ABOVE FINISHED FLOOR
FIN. FL.	FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CONC.	CONCRETE
CONT.	CONTINUATION
CONTR.	CONTRACTOR

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

- COMPLIANCE PER CHAPTER 4 NORTH CAROLINA ENERGY CONSERVATION CODE - SECTIONS C403.2 (MANDATORY), C403.3 ECONOMIZERS (PRESCRIPTIVE) AND C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS:
 - C406.2 MORE EFFICIENT HVAC PERFORMANCE
 - C406.3 REDUCED LIGHTING POWER DENSITY
 - C406.4 ENHANCED LIGHTING CONTROLS
 - C406.5 ON-SITE RENEWABLE ENERGY
 - C406.6 DOAS PROVISION FOR CERTAIN HVAC
 - C406.7 HIGH ENERGY SERVICE WATER HEATING
 - COMPLIANCE PER CHAPTER 4 NORTH CAROLINA ENERGY CONSERVATION CODE - SECTIONS C403.2 (MANDATORY), C403.3 ECONOMIZERS (PRESCRIPTIVE), C403.4 HYDRONIC AND MULTIPLE ZONE (PRESCRIPTIVE) AND C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS.
 - C406.2 MORE EFFICIENT HVAC PERFORMANCE
 - C406.3 REDUCED LIGHTING POWER DENSITY
 - C406.4 ENHANCED LIGHTING CONTROLS
 - C406.5 ON-SITE RENEWABLE ENERGY
 - C406.6 DOAS PROVISION FOR CERTAIN HVAC
 - C406.7 HIGH ENERGY SERVICE WATER HEATING
 - COMPLIANCE PER CHAPTER 4 NORTH CAROLINA ENERGY CONSERVATION CODE - SECTIONS C402.5, C403.2, C404, C405.2, C405.3, C405.5, C405.6 AND C407 TOTAL BUILDING PERFORMANCE. THE BUILDING ENERGY COST SHALL BE EQUAL TO OR LESS THAN 85 PERCENT OF THE STANDARD REFERENCE DESIGN BUILDING.
 - COMPLIANCE PER ANSI/ASHRAE/IESNA 90.1-2013.
 - COMPLIANCE PER NORTH CAROLINA SPECIFIC COMCHECK OR ASHRAE 90.1-2013 COMCHECK.
- CLIMATE ZONE 3A
- EXTERIOR DESIGN CONDITIONS
 winter dry bulb: 20°F
 summer dry bulb: 92°F DB/76°F WB
 relative humidity: 75%
- INTERIOR DESIGN CONDITIONS
 winter dry bulb: 70°F
 summer dry bulb: 74°F
 relative humidity: 55%
- BUILDING HEATING LOAD: 174.3 MBH - INCLUDING APPARATUS BAY
 BUILDING COOLING LOAD: 13.8 TONS
- MECHANICAL SPACING CONDITIONING SYSTEM
 Unitary:
 description of unit: } SEE SCHEDULES ON SHEET M600
 heating efficiency:
 cooling efficiency:
 heat output of unit:
 cooling output of unit:
- Boiler: N/A
 total boiler output, if oversized, state reason.
 Chiller: N/A
 total chiller capacity, if oversized, state reason.
- LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON SHEET M600
 EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)
 motor horsepower: } SEE SCHEDULES ON SHEET M600
 number of phases:
 minimum efficiency:
 motor type:
 # of poles:

DESIGNER STATEMENT

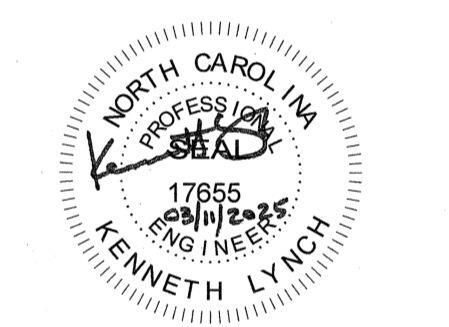
To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina Energy Conservation Code.

SIGNED: PROFESSIONAL ENGINEER
 NAME: Kenneth Lynch, P.E.
 TITLE: Professional Engineer

GENERAL NOTES:

1. HVAC CONTRACTOR SHALL FIELD VERIFY ALL RELEVANT DIMENSIONS, CLEARANCES, LOCATIONS AND ELEVATIONS PRIOR TO ORDERING, FABRICATION, AND INSTALLATION OF HIS WORK. DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE. THE DRAWINGS DIAGRAMMATICALLY INDICATE THE GENERAL LOCATION OF DUCTS, PIPING AND EQUIPMENT AND DO NOT SHOW ALL OFFSETS, FITTINGS, BOLTS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE SYSTEM. WHILE THE DRAWINGS ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE, IF IT IS FOUND NECESSARY TO CHANGE THE LOCATION OF ANY WORK TO ACCOMMODATE THE CONDITIONS AT THE BUILDING, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER, AND AS DIRECTED BY THE ENGINEER.
2. ALL SUPPLY AND RETURN CONNECTIONS TO AHU SHALL BE MADE WITH A FLEXIBLE DUCT CONNECTION.
3. PIPING, DUCTWORK, ETC., SHALL NOT BE SUPPORTED FROM ROOF STRUCTURE BRIDGING OR ROOFDECK. DUCTWORK AND PIPING SHALL BE SUPPORTED DIRECTLY FROM STRUCTURAL ELEMENTS OF THE BUILDING. EQUIPMENT SUPPORTED BY ROOF STRUCTURE SHALL HAVE SUPPORTS ATTACHED AS CLOSE AS POSSIBLE TO PANEL JOINTS.
4. ALL DUCT JOINTS SHALL BE SEALED AS SPECIFIED.
5. IN AREAS WITH GYPBOARD CEILINGS, HVAC CONTRACTOR SHALL INSTALL EQUIPMENT, DUCTWORK AND PIPE HANGERS PRIOR TO GYPBOARD INSTALLATION.
6. SEE SPECIFICATION SECTIONS 230900 FOR DESCRIPTION AND DEMARCATION OF WORK FOR POWER TO BAS CONTROL.
7. ALL THERMOSTATS AND SWITCHES FOR MECHANICAL SYSTEMS AND TOP OF HVAC CONTROL PANELS SHALL BE MOUNTED 44" AFF MAXIMUM. PROVIDE SERVICE CLEARANCES AS REQUIRED FOR ALL EQUIPMENT.
8. AIR CONDITIONING CONDENSATE LINE SIZES ARE MINIMAL SIZE. DO NOT INSTALL SMALLER THAN ACTUAL COIL DISCHARGE SIZE.
9. PIPING SHALL BE PRESSURE TESTED.
10. SEE SPECIFICATION SECTION 230500 FOR REQUIREMENTS FOR SIESMIC RESTRAINTS.

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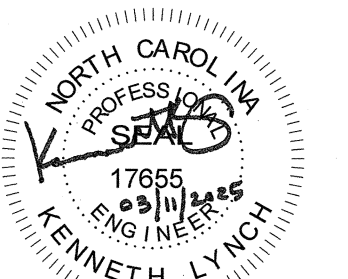
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SHEET TITLE
MECHANICAL LEGEND, ENERGY SCHEDULE & NOTES

M001

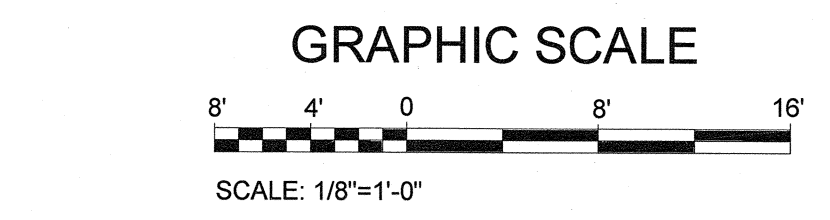


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KEYED NOTES: (THIS SHEET ONLY)

- BOTTOM OF HVLS VENTILATOR SHALL BE 17'-0" AFF. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 36"H x 48"W SIDEWALL LOUVER WITH BIRD SCREEN BY GENERAL CONTRACTOR.
- PROVIDE PROTECTIVE WIRE GUARD OVER FAN, MOD AND ACUTATOR. INSTALL FAN TO AVOID ROLL UP DOOR TRACKS, LIGHTS AND OTHER TRADES. SEE DETAIL DM500.
- 6"Ø EXHAUST DUCT UP TO GOOSENECK ABOVE ROOF. SEE DETAIL CM501.
- DRYER BOX, SEE DETAIL E/M501.
- PROVIDE TOGGLE TYPE DISCONNECT SWITCH WITH LOCKABLE COVER.
- PROVIDE TRANSITION AS NECESSARY AND MAKE FINAL CONNECTION TO KITCHEN HOOD.
- ROUTE 4"Ø DRYER EXHAUST DUCT UP TO GOOSENECK ABOVE ROOF, SEE DETAIL CM501.
- STACK REFRIGERANT PIPING NEATLY, AND SUPPORT AS SHOWN ON DETAIL F/M501.
- INSTALL UNITS WITH CLEARANCES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, TYP.
- ROUTE PUMPED COND. FROM DAHU-1 UP TO EQUIPMENT PLATFORM, SEE 1/M120 FOR CONTINUATION.
- SUPPORT REFRIGERANT PIPING SECURELY ON GRADE, TYP.
- 6" CONC. PAD BY GENERAL CONTR., TYP.
- COVER ALL EXPOSED REF. PIPING WITH ALUMINUM JACKET. TYP. SEE DETAIL B/M501.
- MANUAL OVERRIDE SWITCH FOR BAY HEATING AND VENTILATION SYSTEM.
- WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN. SEE DETAIL DM501.
- COORDINATE LOCATION WITH LIGHTS AND EQUIPMENT.
- HEAVY DUTY DISCONNECT SWITCH MOUNTED ON RACK BY ELECTRICAL CONTRACTOR, TYPICAL.
- AIR SCRUBBER CONTROL PANEL - ALTERNATE M-1.
- STACK REFRIGERANT PIPE AND SUPPORT WITH UNISTRUT AND THREADED ROD. SEE SECTION 2/M100.
- 10"x10" EXHAUST AIR DUCT UP TO F-6 ON EQUIPMENT PLATFORM, SEE 1/M120 FOR CONTINUATION.
- 14"x14" EXHAUST AIR DUCT UP TO ERV-1 ON EQUIPMENT PLATFORM, SEE 1/M120 FOR CONTINUATION.
- 14"x14" SUPPLY AIR DUCT DOWN FROM AHU-5 ON EQUIPMENT PLATFORM, SEE 1/M120 FOR CONTINUATION.
- 36"H x 36"W SIDEWALL INTAKE AIR LOUVER WITH BIRD SCREEN BY GENERAL CONTRACTOR. MOD BY MECHANICAL CONTR.
- COORDINATE DUCTWORK ROUTING WITH STAIRS AND ACCESS TO EQUIPMENT PLATFORM.
- AIR SCRUBBERS - ALTERNATE M-1. BOTTOM OF AIR SCRUBBERS SHALL BE 17'-0" AFF. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

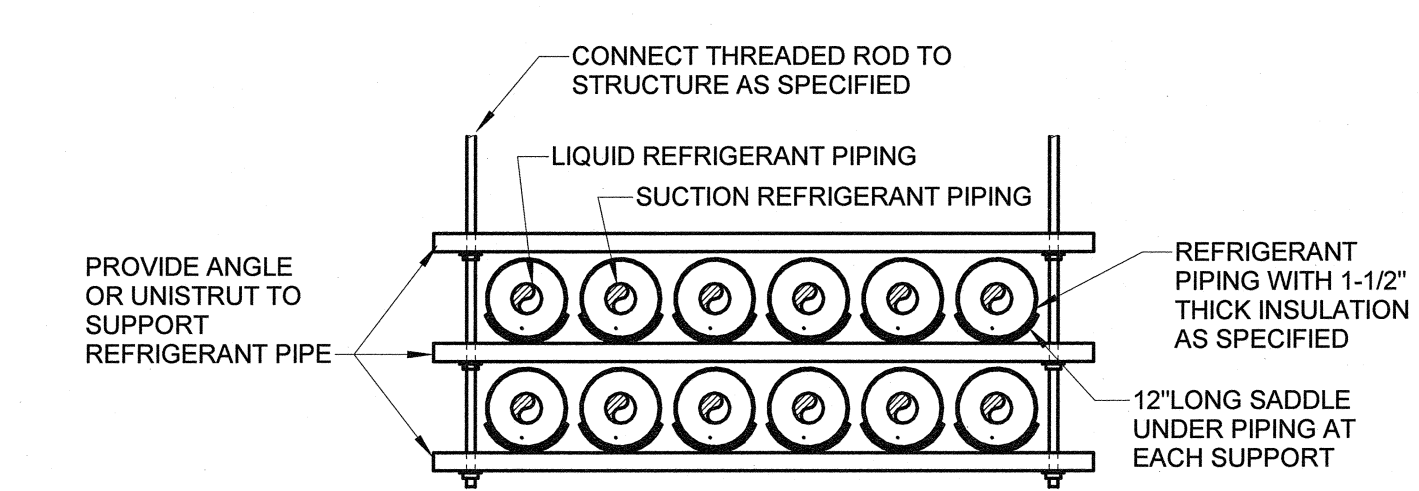


RATED ASSEMBLIES LEGEND:

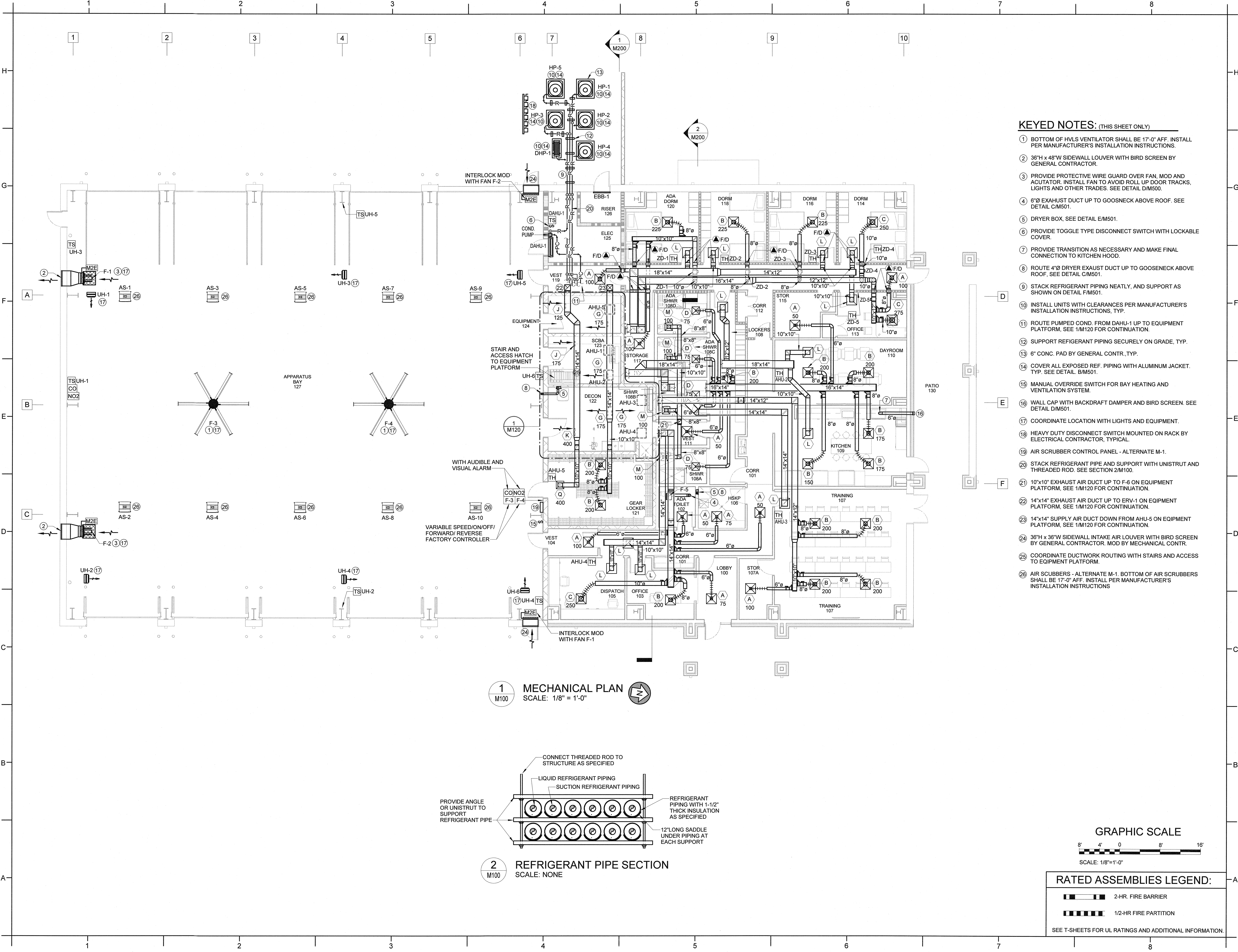
- 2-HR. FIRE BARRIER
- 1/2-HR FIRE PARTITION

SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.

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



2 REFRIGERANT PIPE SECTION
SCALE: NONE





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JOB # 24012

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID. NO. 102-25C

136 OLD SAND RIDGE RD. HUBERT, NC 28539

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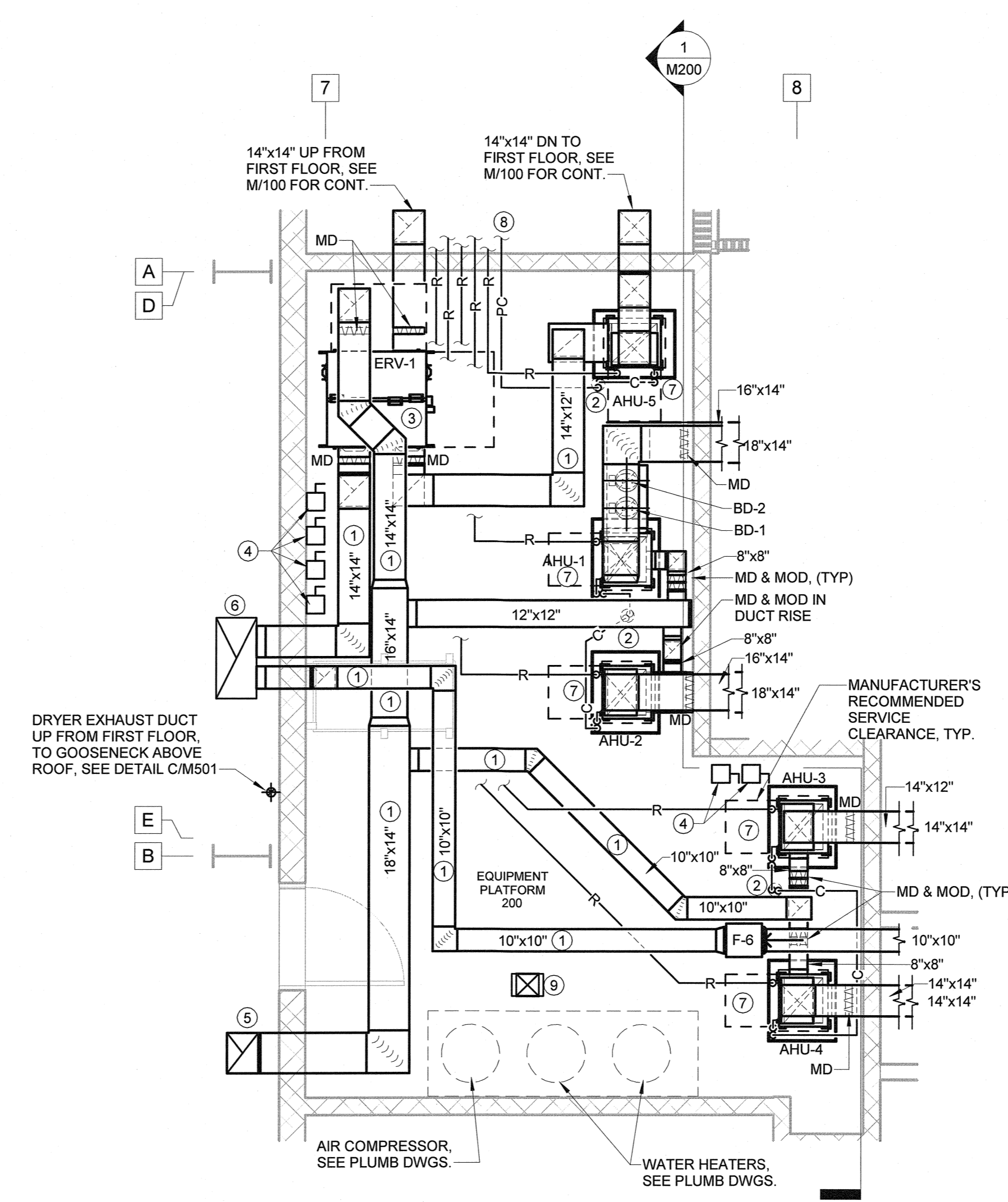
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MECHANICAL EQUIPMENT PLATFORM PLAN

M120



1 MECHANICAL EQUIPMENT PLATFORM PLAN
SCALE: 1/4" = 1'-0"

- KEYED NOTES:** (THIS SHEET ONLY)
- 1 INSTALL DUCTWORK AS HIGH AS POSSIBLE.
 - 2 SPILL CONDENSATE INTO HUB DRAIN. SEE DETAIL C/M500.
 - 3 SEE DETAIL F/M500 FOR ERV SUPPORT.
 - 4 HEAVY DUTY DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR, TYP.
 - 5 18"x14" OUTSIDE AIR INTAKE UP TO 36"x18" SIDEWALL LOUVER ABOVE ROOF BY GC. SEE ARCH. DRAWINGS. INSULATE WITH DUCTBOARD INSULATION WHERE EXPOSED IN APPARATUS BAY.
 - 6 CONNECT EXHAUST DUCT FROM F-6, AND RELIEF AIR FROM ERV-1 INTO PLENUM FROM 36"x18" SIDEWALL LOUVER ABOVE ROOF BY GC. PLENUM SHALL BE FULL SIZE OF LOUVER. SEE ARCHITECTURAL DRAWINGS.
 - 7 ROUTE REFRIGERANT AND CONDENSATE PIPING (INCLUDING P-TRAP) TO AVOID INTERFERENCE WITH EQUIPMENT FILTER REMOVAL AND REPLACEMENT. CONDENSATE P-TRAP SHALL BE LOCATED WITHIN EXTENTS OF CONDENSATE PAN.
 - 8 PUMPED CONDENSATE FROM DAHU-1 IN ELECTRICAL 125. SEE 1/M100 FOR CONTINUATION.
 - 9 10"x10" MAKE-UP AIR DN FROM GV-1 ON ROOF TO PROVIDE MAKE-UP AIR FOR AIR COMPRESSOR. COVER END OF DUCTWORK WITH WIRE MESH. INSTALL MOD IN DUCT RISE. MOD SHALL BE INTERLOCKED WITH AIR COMPRESSOR TO BE OPEN ONLY WHEN AIR COMPRESSOR IS ON.

GRAPHIC SCALE
4' 2' 0' 4' 8'
SCALE: 1/4" = 1'-0"

RATED ASSEMBLIES LEGEND:

- 2-HR. FIRE BARRIER
- 1/2-HR FIRE PARTITION

SEE T-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.



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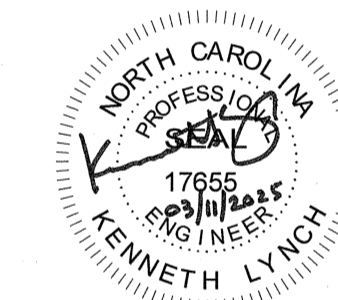
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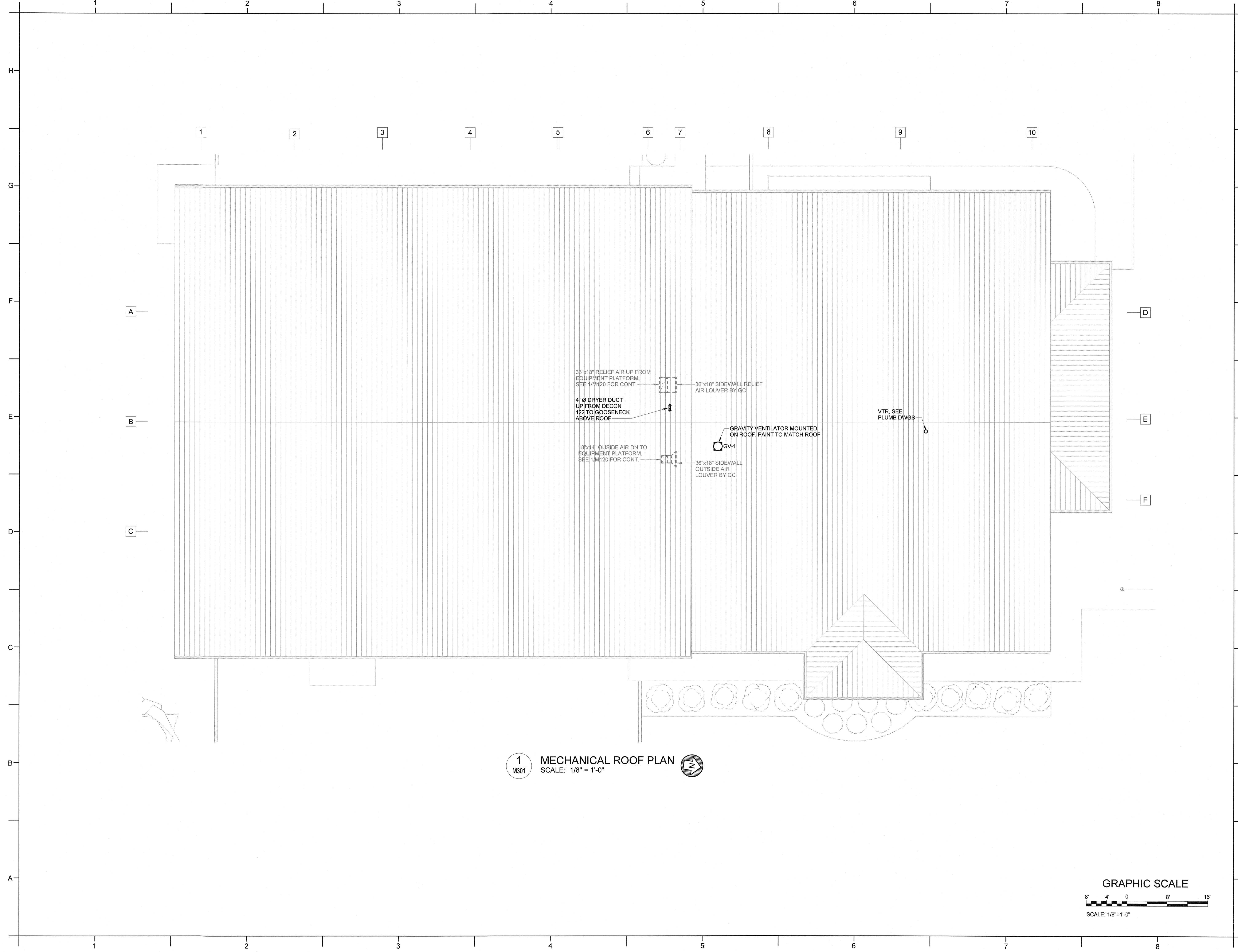
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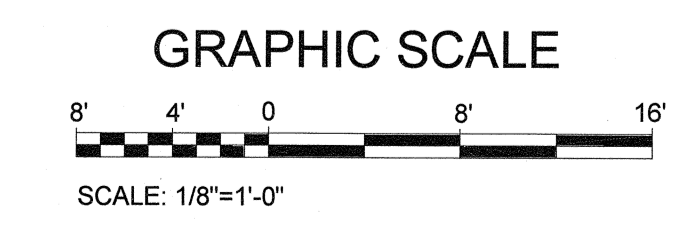
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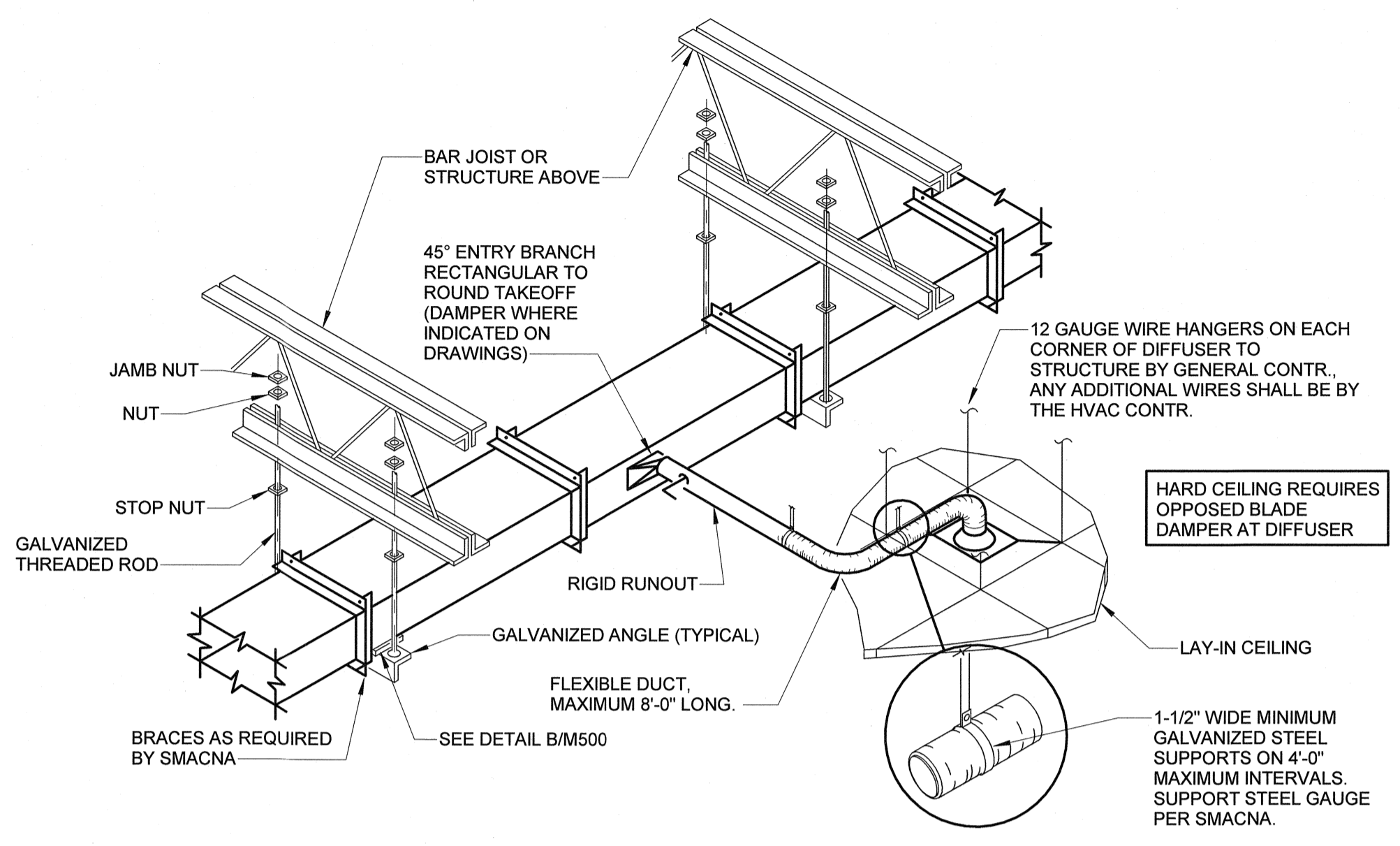
MECHANICAL ROOF

M301

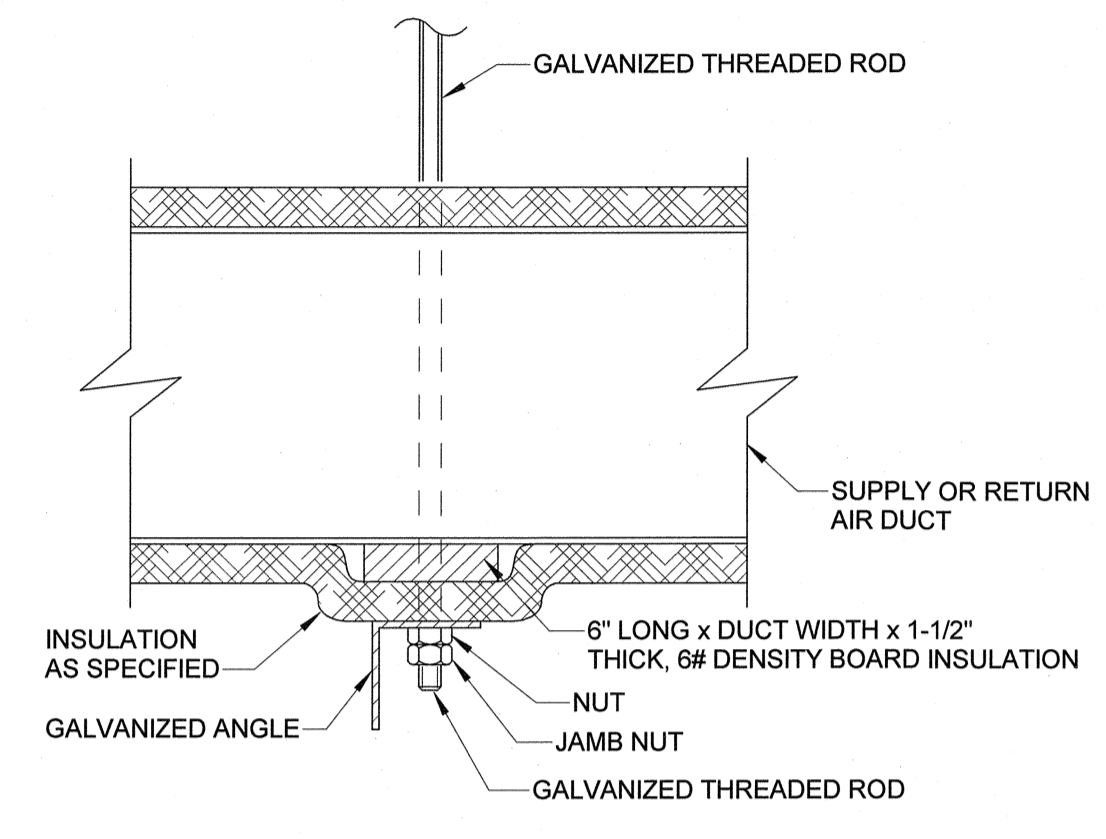


1 MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

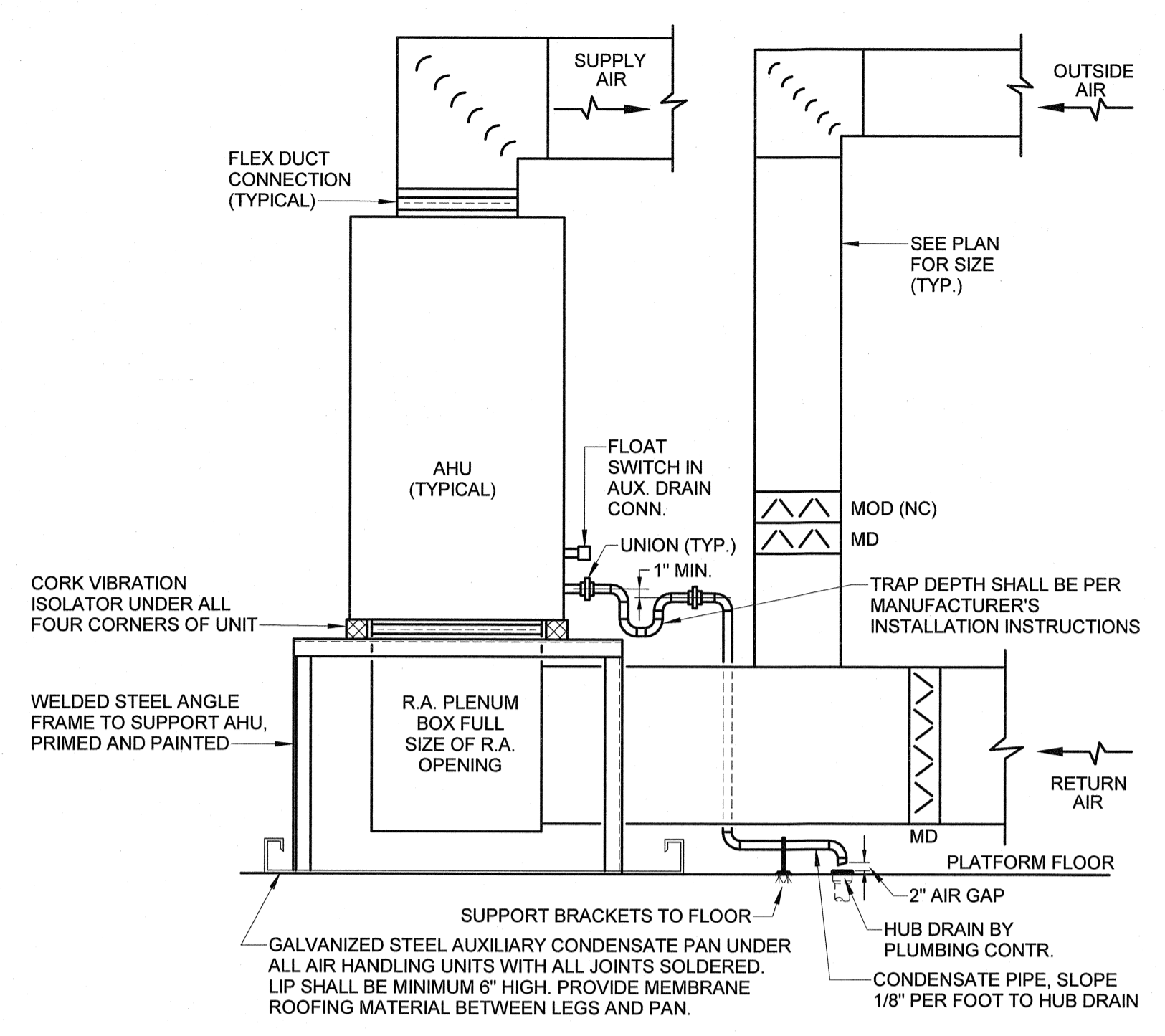




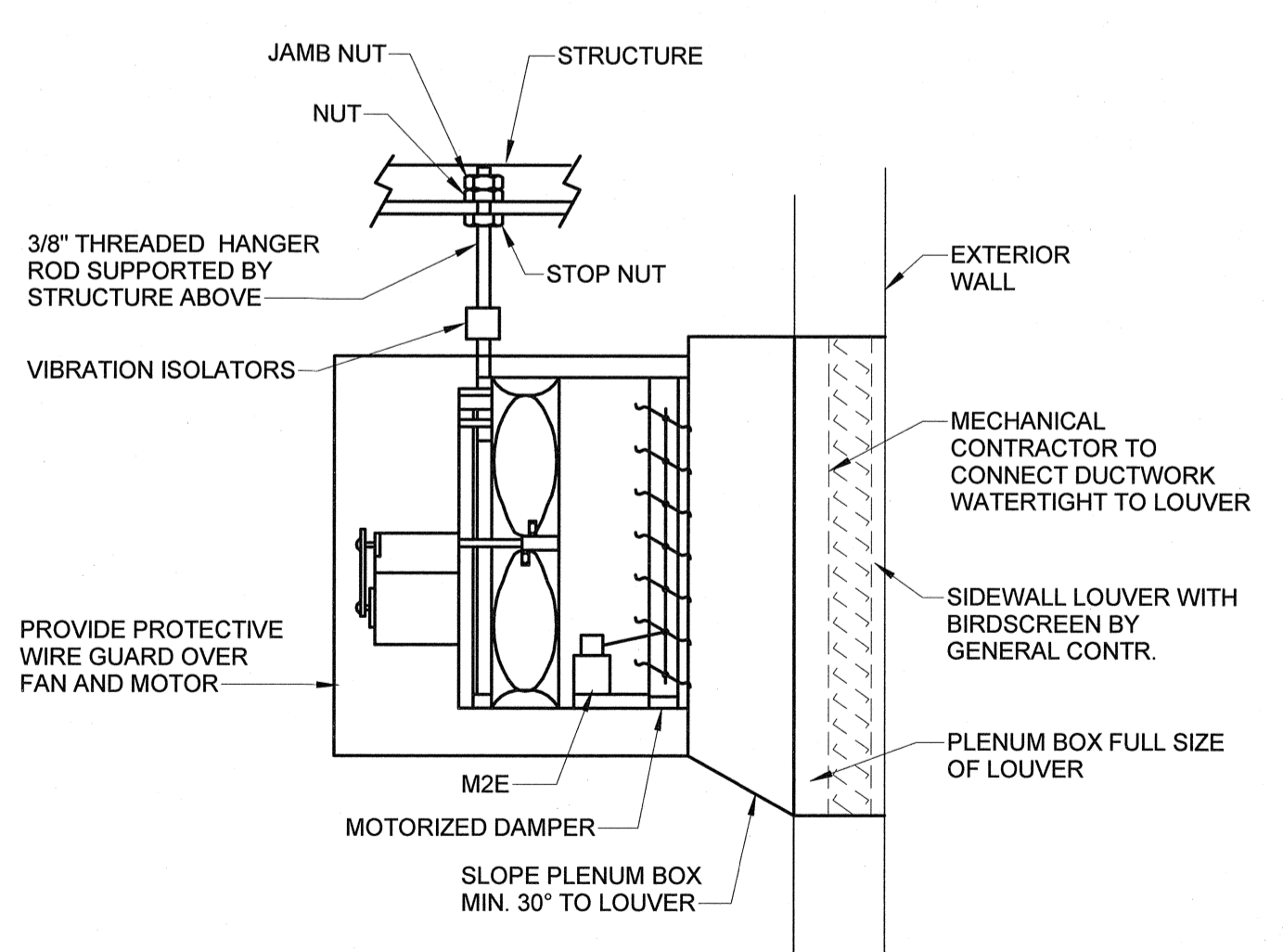
A TYPICAL SUPPLY DUCT DETAIL
SCALE: NONE
M500



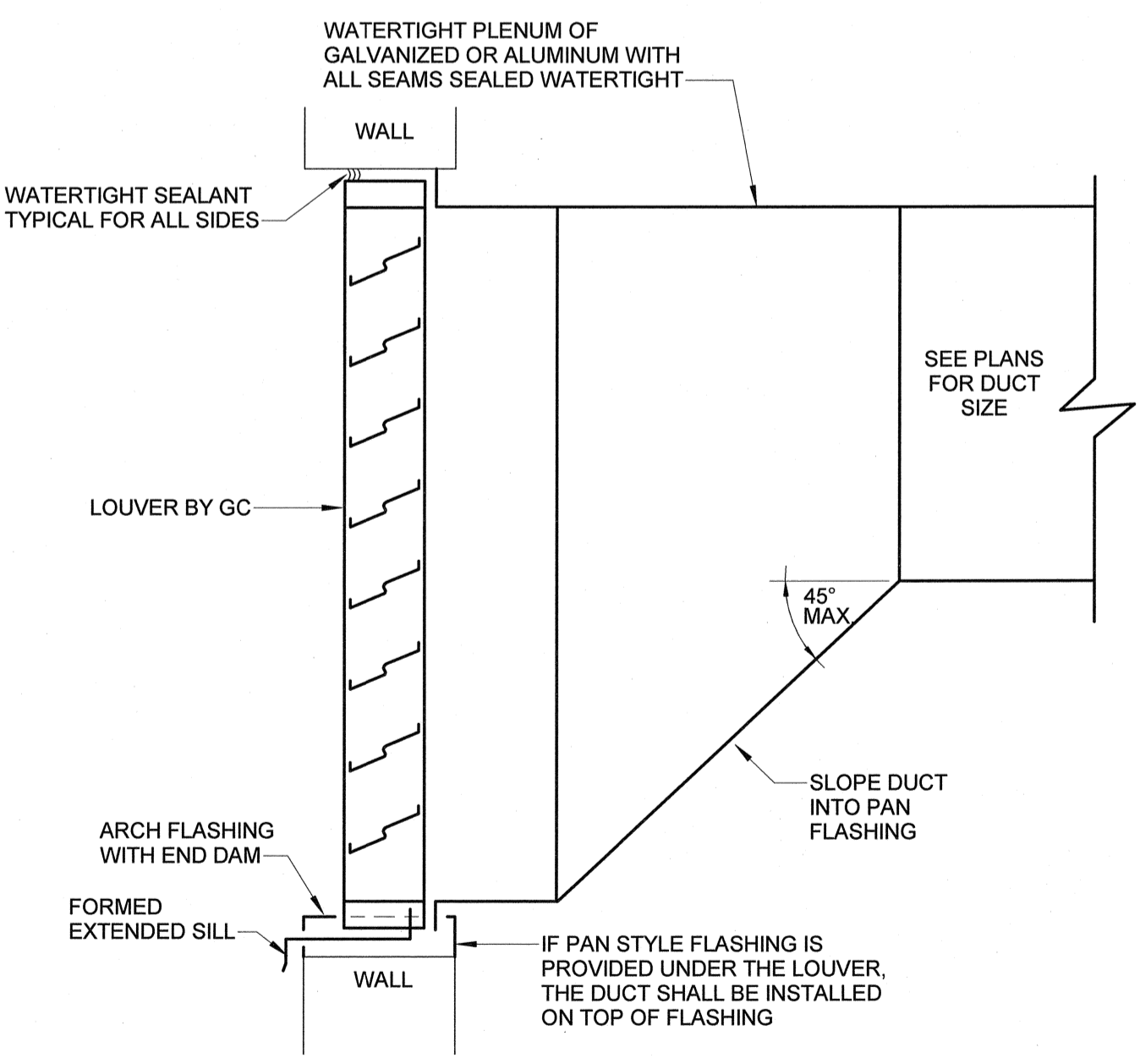
B TYPICAL DUCT HANGER DETAIL
SCALE: NONE
M500



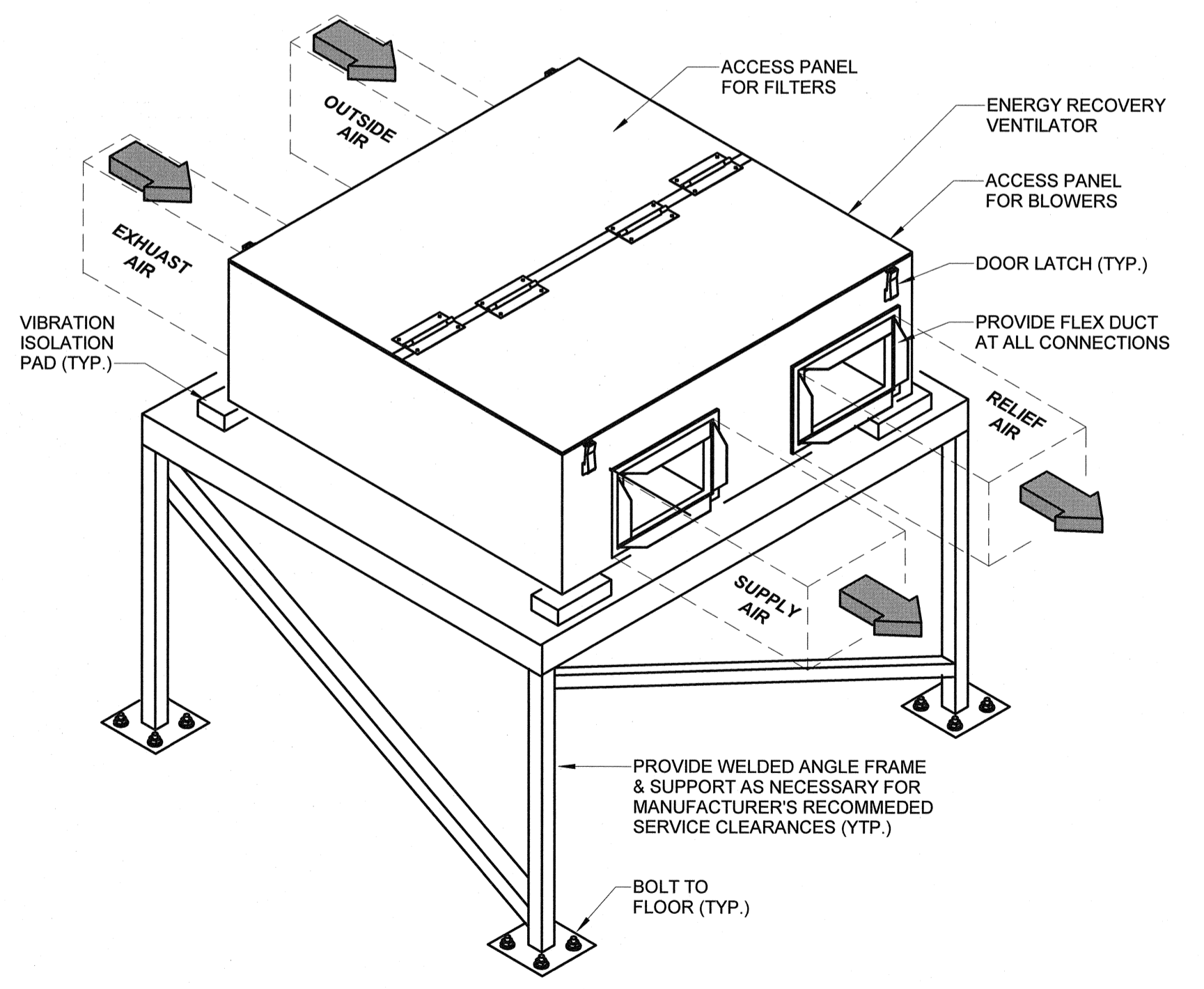
C TYPICAL VERTICAL SPLIT SYSTEM HEAT PUMP
SCALE: NONE
M500



D SIDEWALL SUPPLY AND EXHAUST FAN DETAIL
SCALE: NONE
M500

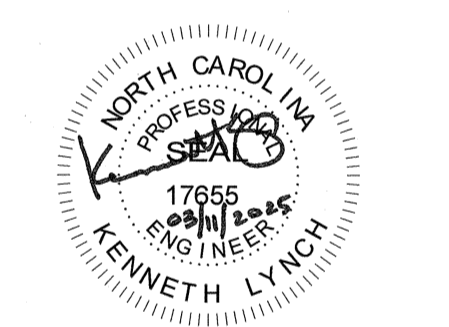


E TYPICAL WALL LOUVER DETAIL
SCALE: NONE
M500



F ENERGY RECOVERY VENTILATOR DETAIL
SCALE: NONE
M500

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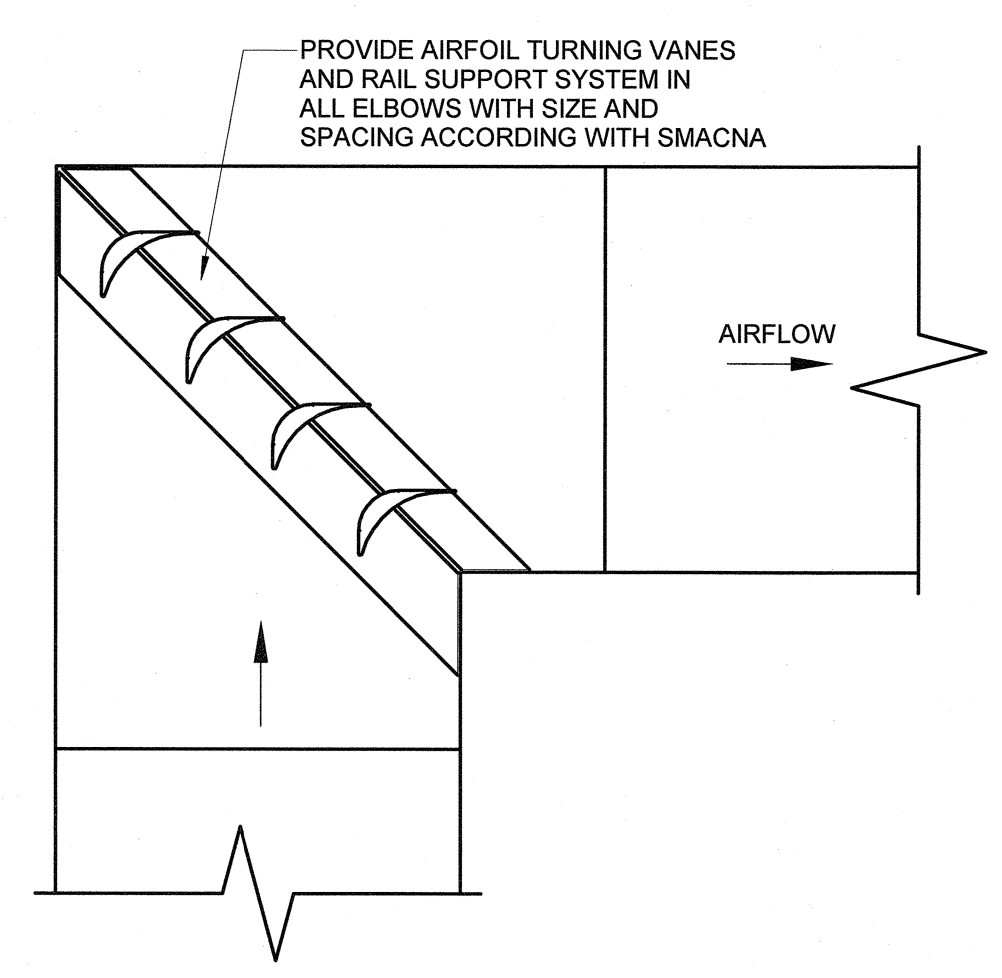
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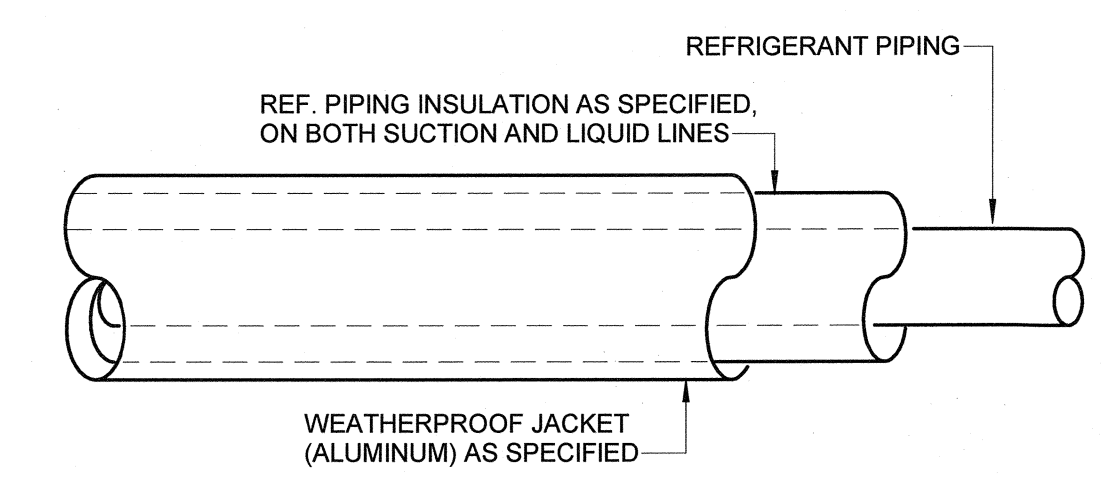
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MECHANICAL
DETAILS

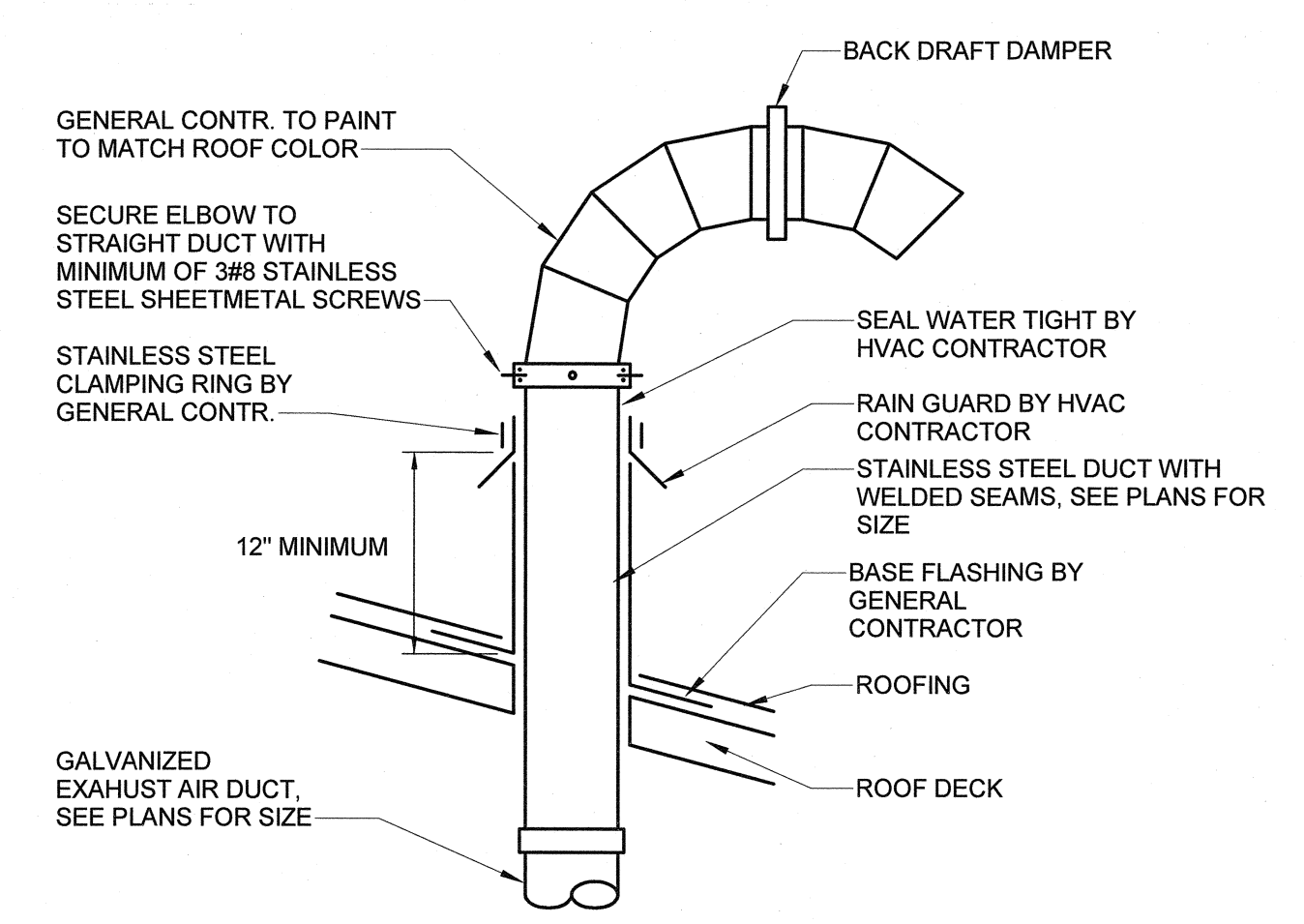
M500



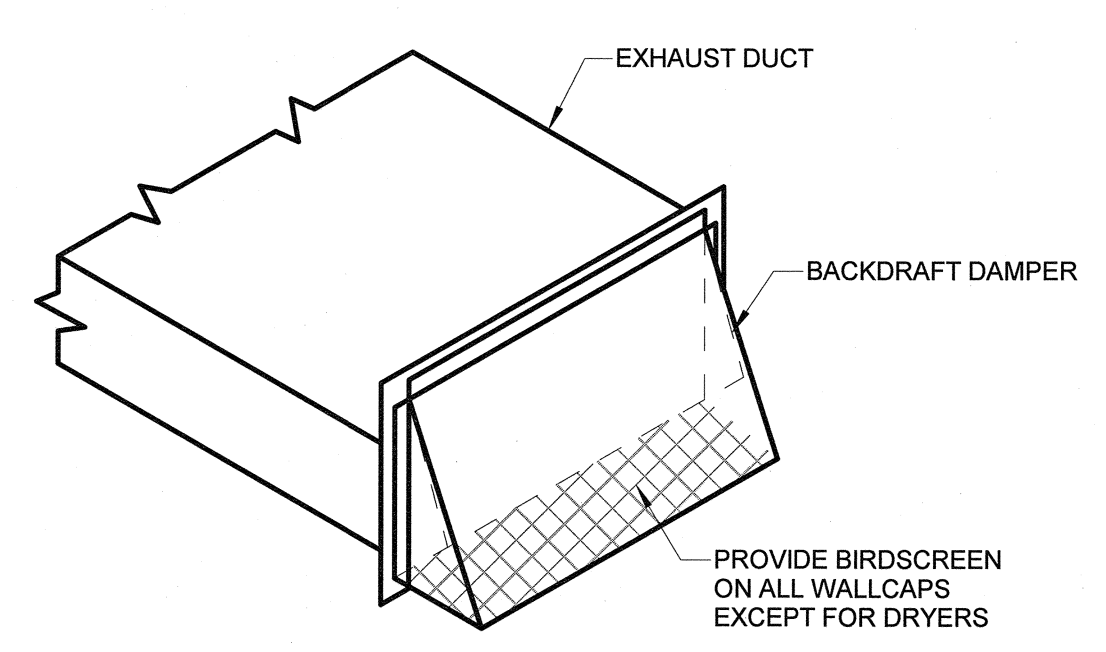
A TYPICAL DUCT ELBOW WITH TURNING VANES
M501 SCALE: NONE



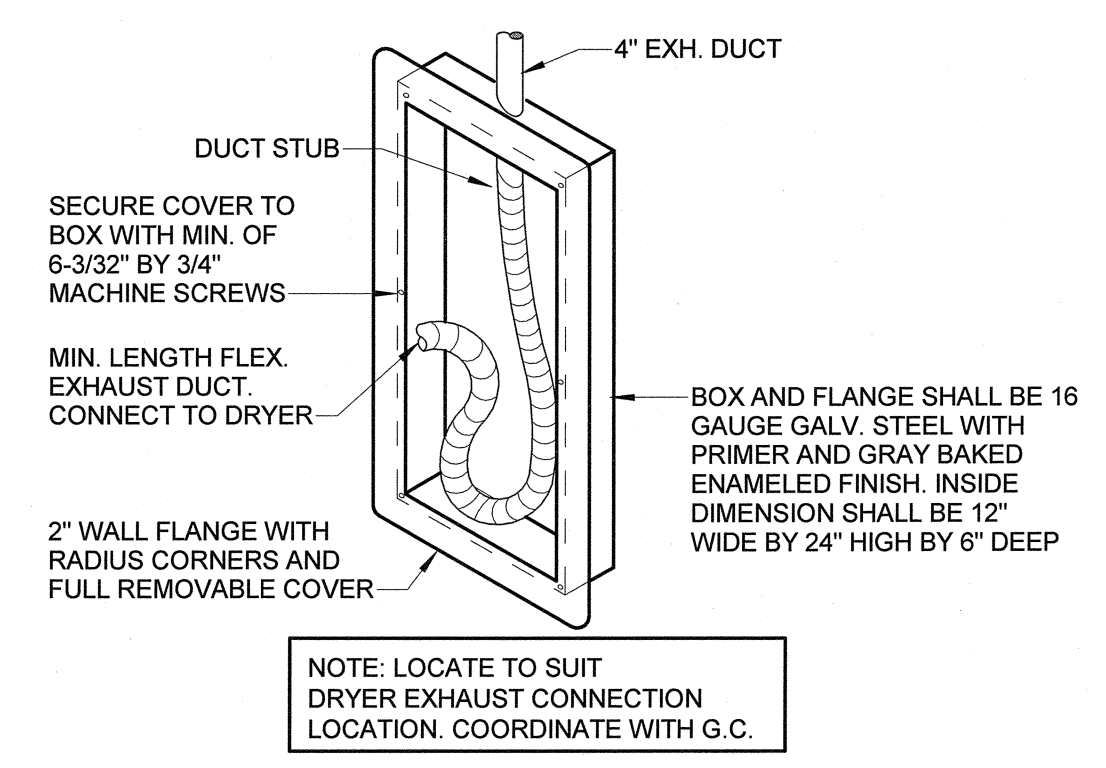
B EXTERIOR REFRIGERANT PIPING DETAIL
M501 SCALE: NONE



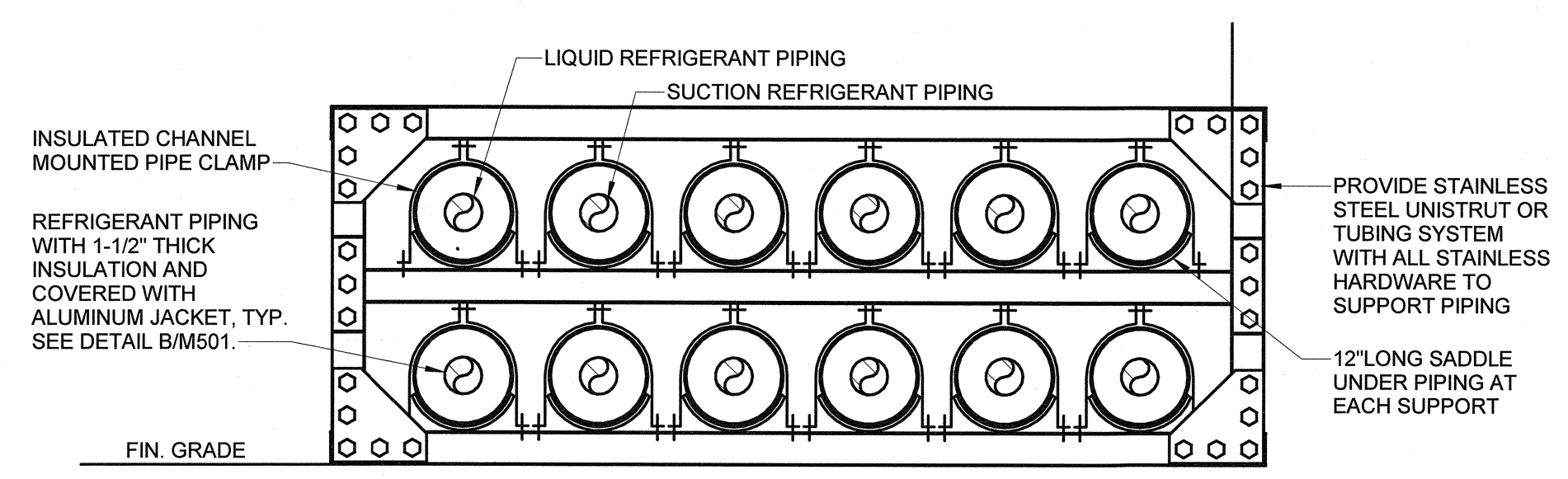
C EXHAUST DUCT TERMINAL DETAIL
M501 SCALE: NONE



D WALL CAP DETAIL
M501 SCALE: NONE



E DRYER VENT BOX DETAIL
M501 SCALE: NONE



F REFRIGERANT PIPE SUPPORT
M501 SCALE: NONE

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M501



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ENERGY RECOVERY VENTILATOR SCHEDULE																				
SYMBOL	AIR QUANTITY		EXT SP "H2O		FAN HP		CORE HEAT EXCHANGER							ELECTRICAL			BASIS OF DESIGN	REMARKS		
	OUTSIDE AIR CFM	EXHAUST AIR CFM	O/A SA (1)	EX A (1)	O/A SA	EX A	OUTSIDE AIR			EXHAUST AIR				MCA	MOCP	VOLTAGE & PHASE				
							COOLING DB'F	COOLING WB'F	HEATING DB'F	COOLING DB'F	COOLING WB'F	HEATING DB'F	COOLING DB'F						COOLING WB'F	HEATING DB'F
ERV-1	1100	1100	0.75	0.75	3/4	3/4	93.0	77.0	24.0	75.0	62.4	70.0	82.0	70.6	52.1	16	20	208V-1Ø	RUSKIN MCV1000	SERVING AHU-5

(1) EXT. S.P. INCLUDES DUCTWORK. FILTERS IN UNIT ARE NOT INCLUDED IN THIS FIGURE.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE															
SYMBOL	AIR HANDLING UNIT SECTION (6)						OUTDOOR HEAT PUMP SECTION						REMARKS		
	AIR QUANTITY		EXT SP "H2O (1)	ELECTRICAL			SYMBOL	ELECTRICAL			COOLING CAPACITY BTUH (2)	HEATING CAPACITY BTUH (3)		SEER	
	TOTAL CFM	OUTSIDE CFM		MCA	MOCP	STRIP HEAT (KW)		FAN HP	VOLTAGE & PHASE	MCA					MOCP
AHU-1	1500	200	1.00	45	45	10.8	3/4	208V-3Ø	HP-1	18	30	208V-3Ø	44,000	28,000	14.3
AHU-2	1500	200	0.65	45	45	10.8	3/4	208V-3Ø	HP-2	18	30	208V-3Ø	44,000	28,000	14.3
AHU-3	900	210	0.65	30	30	7.2	1/2	208V-3Ø	HP-3	16	25	208V-1Ø	29,000	16,500	14.3 (5)
AHU-4	800	100	0.65	29	30	7.2	1/2	208V-3Ø	HP-4	13	20	208V-1Ø	23,000	14,700	14.3 (5)
AHU-5	1100	1100 (4)	0.50	42	40	10.8	1/2	208V-3Ø	HP-5	16	25	208V-3Ø	32,500	21,500	14.3

- (1) EXT. S.P. INCLUDES SUPPLY & RETURN AIR DUCTWORK. FILTERS IN UNIT ARE NOT INCLUDED IN THIS FIGURE.
- (2) CAPACITY WHEN MATCHED WITH INDOOR HEAT PUMP SECTION AT AHRI CONDITIONS.
- (3) CAPACITY AT 17° F OUTSIDE AIR TEMPERATURE.
- (4) FROM ERV-1.
- (5) SEER2.
- (6) WITH FACTORY INSTALLED INTEGRAL REFRIGERANT LEAK DETECTOR AND SAFETY SEQUENCE FOR A2L REFRIGERANTS.

POWER VENTILATOR SCHEDULE										
SYMBOL	CFM	ESP	RPM	TIP SPEED	ELECTRICAL		TYPE	DRIVE	CONTROL	REMARKS
					HP	VOLTAGE				
F-1	3000	0.50"	1690	10,630	3/4	208V-3Ø	SIDEWALL PROPELLER EXHAUST	BELT	(3)	APPARATUS BAY 129
F-2	3000	0.50"	1690	10,630	3/4	208V-3Ø	SIDEWALL PROPELLER EXHAUST	BELT	(3)	APPARATUS BAY 129
F-3	50,000	-	-	-	1-1/2	208V-3Ø	14'-0" HVLS AIR MOVEMENT (5)	DIRECT	(4)	APPARATUS BAY 129
F-4	50,000	-	-	-	1-1/2	208V-3Ø	14'-0" HVLS AIR MOVEMENT (5)	DIRECT	(4)	APPARATUS BAY 129
F-5	100	0.50"	810	1430	3/4 (1)	115V-1Ø	CEILING EXHAUST	DIRECT	(2)	ADA TOILET 102
F-6	400	0.50"	1630	4630	1/10	115V-1Ø	INLINE CENTRIFUGAL	DIRECT	AHU-2	SHWR 108A, SHWR 108D, ADA SHWR 108E, ADA SHWR 108F

- (1) WATTS
- (2) VIA LIGHTING CONTROL SYSTEM'S OCCUPANCY SENSOR.
- (3) MANUAL SWITCH IN PARALLEL WITH CO & NO2 SENSING SYSTEM, SEE APPARATUS BAY HEATING & VENTILATION CONTROL DIAGRAM ON M701. NOTE THAT F-1 AND F-2 ALWAYS OPERATE AT THE SAME TIME.
- (4) VARIABLE SPEED/ON/OFF/FORWARD/REVERSE FACTORY CONTROLLER.
- (5) BASIS OF DESIGN IS RITE HITE REVOLUTION.

AIR SCRUBBER SCHEDULE - ALTERNATE M-1										
SYMBOL	CFM	ESP	RPM	ELECTRICAL			TYPE	DRIVE	CONTROL	REMARKS
				HP	AMP	VOLTAGE				
AS-1	-	-	1725	3/4	13.6	208V-1Ø	EXHAUST REMOVAL SYSTEM	DIRECT	(1)	APPARATUS BAY 127
AS-2	-	-	1725	3/4	13.6	208V-1Ø	EXHAUST REMOVAL SYSTEM	DIRECT	(1)	APPARATUS BAY 127
AS-3	-	-	1725	3/4	13.6	208V-1Ø	EXHAUST REMOVAL SYSTEM	DIRECT	(1)	APPARATUS BAY 127
AS-4	-	-	1725	3/4	13.6	208V-1Ø	EXHAUST REMOVAL SYSTEM	DIRECT	(1)	APPARATUS BAY 127
AS-5	-	-	1725	3/4	13.6	208V-1Ø	EXHAUST REMOVAL SYSTEM	DIRECT	(1)	APPARATUS BAY 127
AS-6	-	-	1725	3/4	13.6	208V-1Ø	EXHAUST REMOVAL SYSTEM	DIRECT	(1)	APPARATUS BAY 127
AS-7	-	-	1725	3/4	13.6	208V-1Ø	EXHAUST REMOVAL SYSTEM	DIRECT	(1)	APPARATUS BAY 127
AS-8	-	-	1725	3/4	13.6	208V-1Ø	EXHAUST REMOVAL SYSTEM	DIRECT	(1)	APPARATUS BAY 127
AS-9	-	-	1725	3/4	13.6	208V-1Ø	EXHAUST REMOVAL SYSTEM	DIRECT	(1)	APPARATUS BAY 127
AS-10	-	-	1725	3/4	13.6	208V-1Ø	EXHAUST REMOVAL SYSTEM	DIRECT	(1)	APPARATUS BAY 127

- (1) FACTORY AUTOMATIC TIMER CONTROL PANEL IN PARALLEL WITH:
 - a. MAGNETIC DOOR SWITCH (ONE PER VEHICLE DOOR) AS PART OF AIR SCRUBBER SYSTEM.
 - b. PHOTOELECTRIC EYES (TO DETECT VEHICLE MOVEMENT) AS PART OF AIR SCRUBBER SYSTEM.
 - c. MANUAL ON-OFF-AUTO SELECTOR WITH LABEL.
 - d. INPUT SIGNAL FROM CARBON MONOXIDE (CO)/NITROGEN DIOXIDE (NO2) SENSING SYSTEM IN SPACE, SENSING SYSTEM AS SPECIFIED IN SECTION 230900 BY CONTROL CONTRACTOR.

DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE														
SYMBOL	AIR QUANTITY		EXT SP "H2O (1)	ELECTRICAL			SYMBOL	ELECTRICAL			COOLING CAPACITY BTUH (2)	HEATING CAPACITY BTUH (3)	SEER	REMARKS
	TOTAL CFM	OUTSIDE CFM		FAN FLA	VOLTAGE & PHASE	MCA		MOCP	VOLTAGE & PHASE					
DAHU-1	700	-	-	1.0	208V-1Ø	DHP-1	19	25	208V-1Ø	10,000 - 24,000	15,700	21.4	ELECTRICAL 125	

- (1) EXT. S.P. INCLUDES SUPPLY & RETURN AIR DUCTWORK. FILTERS IN UNIT ARE NOT INCLUDED IN THIS FIGURE.
- (2) MINIMUM AND MAXIMUM CAPACITY WHEN MATCHED WITH INDOOR HEAT PUMP SECTION AT AHRI CONDITIONS.
- (3) CAPACITY AT 17° F OUTSIDE AIR TEMPERATURE.

REGISTER, GRILLE & DIFFUSER SCHEDULE					
SYMBOL	C.F.M.	NECK SIZE	TYPE	RUNOUT SIZE	REMARKS
(A)	50-100	6"X6"	2'X2' LAY-IN CEILING SA DIFFUSER	6"Ø	
(B)	125-225	9"X9"	2'X2' LAY-IN CEILING SA DIFFUSER	8"Ø	
(C)	250-400	12"X12"	2'X2' LAY-IN CEILING SA DIFFUSER	10"Ø	
(D)	50-100	6"X6"	CEILING SA DIFFUSER	6"Ø	
(E)	125-225	9"X9"	CEILING SA DIFFUSER	8"Ø	
(F)	250-400	12"X12"	CEILING S.A. DIFFUSER	10"Ø	
(G)	175-225	12"X6"	SIDEWALL SA REGISTER	10"Ø	
(H)	250-400	16"X8"	SIDEWALL SA REGISTER	12"Ø	
(J)	0-300	12"X10"	SIDEWALL EX. A REGISTER	-	
(K)	325-550	18"X12"	SIDEWALL EX. A REGISTER	-	
(L)	250-1000	22"X22"	2'X2' LAY-IN RA GRILLE	-	
(M)	50-200	10"X10"	EXHAUST REGISTER	-	
(N)	0-300	12"X10"	SIDEWALL TRANSFER AIR GRILLE	-	
(P)	0-300	12"X10"	CEILING RA REGISTER	-	
(Q)	225-500	12"X12"	EXHAUST REGISTER	-	

ELECTRIC UNIT HEATER SCHEDULE							
SYMBOL	CFM	BTU	ELECTRICAL		MOUNTING HEIGHT	DISCHARGE	REMARKS
			KW	VOLTAGE			
UH-1	700	25.6	7.5	208V-3Ø	15'-0" AFF	HORIZONTAL	APPARATUS BAY 127
UH-2	700	25.6	7.5	208V-3Ø	15'-0" AFF	HORIZONTAL	APPARATUS BAY 127
UH-3	700	25.6	7.5	208V-3Ø	15'-0" AFF	HORIZONTAL	APPARATUS BAY 127
UH-4	700	25.6	7.5	208V-3Ø	15'-0" AFF	HORIZONTAL	APPARATUS BAY 127
UH-5	700	25.6	7.5	208V-3Ø	15'-0" AFF	HORIZONTAL	APPARATUS BAY 127
UH-6	700	25.6	7.5	208V-3Ø	15'-0" AFF	HORIZONTAL	APPARATUS BAY 127

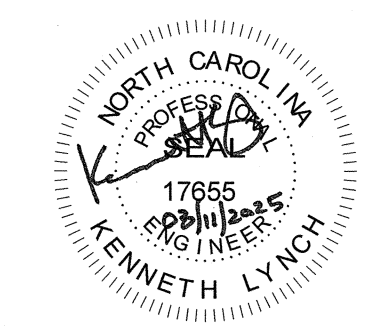
ELECTRIC BASEBOARD HEATER SCHEDULE					
SYMBOL	BTU/HR	ELECTRICAL		MOUNTING HEIGHT	REMARKS
		WATTS	VOLTAGE		
EBB-1	2560	750	208V-1Ø	40"	8'-0" AFF RISER ROOM 126

VARIABLE VOLUME ZONE DAMPER SCHEDULE						
SYMBOL	MAX CFM	MIN CFM	DAMPER SIZE	RUNOUT SIZE	AHU	REMARKS
ZD-1	425	25	10"Ø	10"Ø	AHU-1	
ZD-2	225	25	8"Ø	8"Ø	AHU-1	
ZD-3	225	25	8"Ø	8"Ø	AHU-1	
ZD-4	250	25	10"Ø	10"Ø	AHU-1	
ZD-5	375	25	10"Ø	10"Ø	AHU-1	

GRAVITY VENTILATOR SCHEDULE					
SYMBOL	CFM	MIN. THROAT SIZE	MAXIMUM AIR PRESS DROP "H2O	TYPE	SERVING
GV-1	200	11"X11"	0.10	MAKE-UP AIR	AIR COMPRESSORS

BYPASS DAMPER SCHEDULE					
SYMBOL	DAMPER CFM	UNIT CFM	DAMPER SIZE	AHU	REMARKS
BD-1	700	1900	10"Ø	AHU-1	
BD-2	700	1900	10"Ø	AHU-1	

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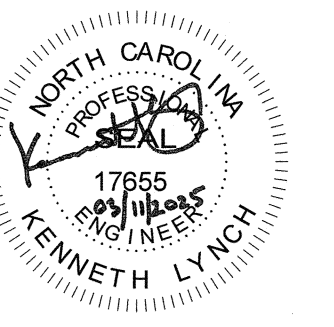
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MECHANICAL SCHEDULES

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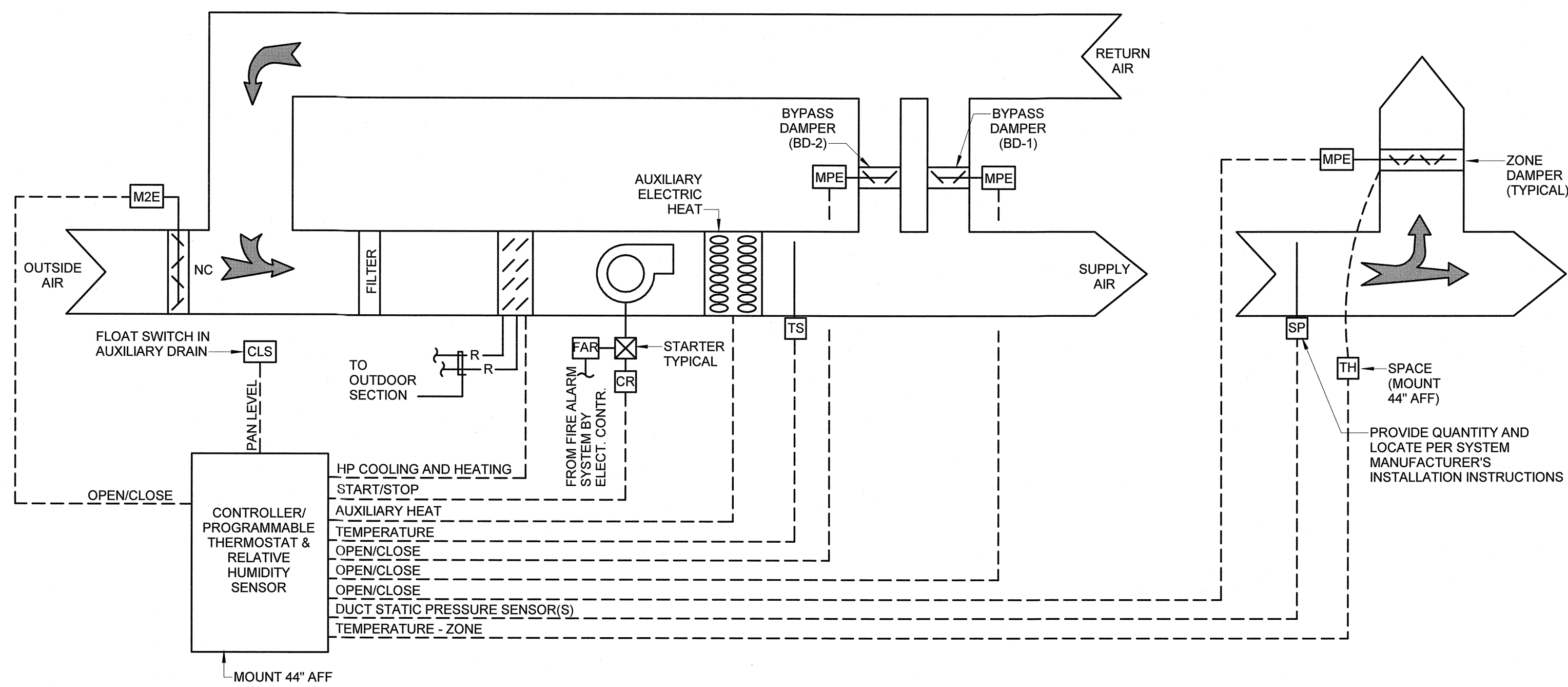
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SHEET TITLE

MECHANICAL CONTROL DIAGRAMS

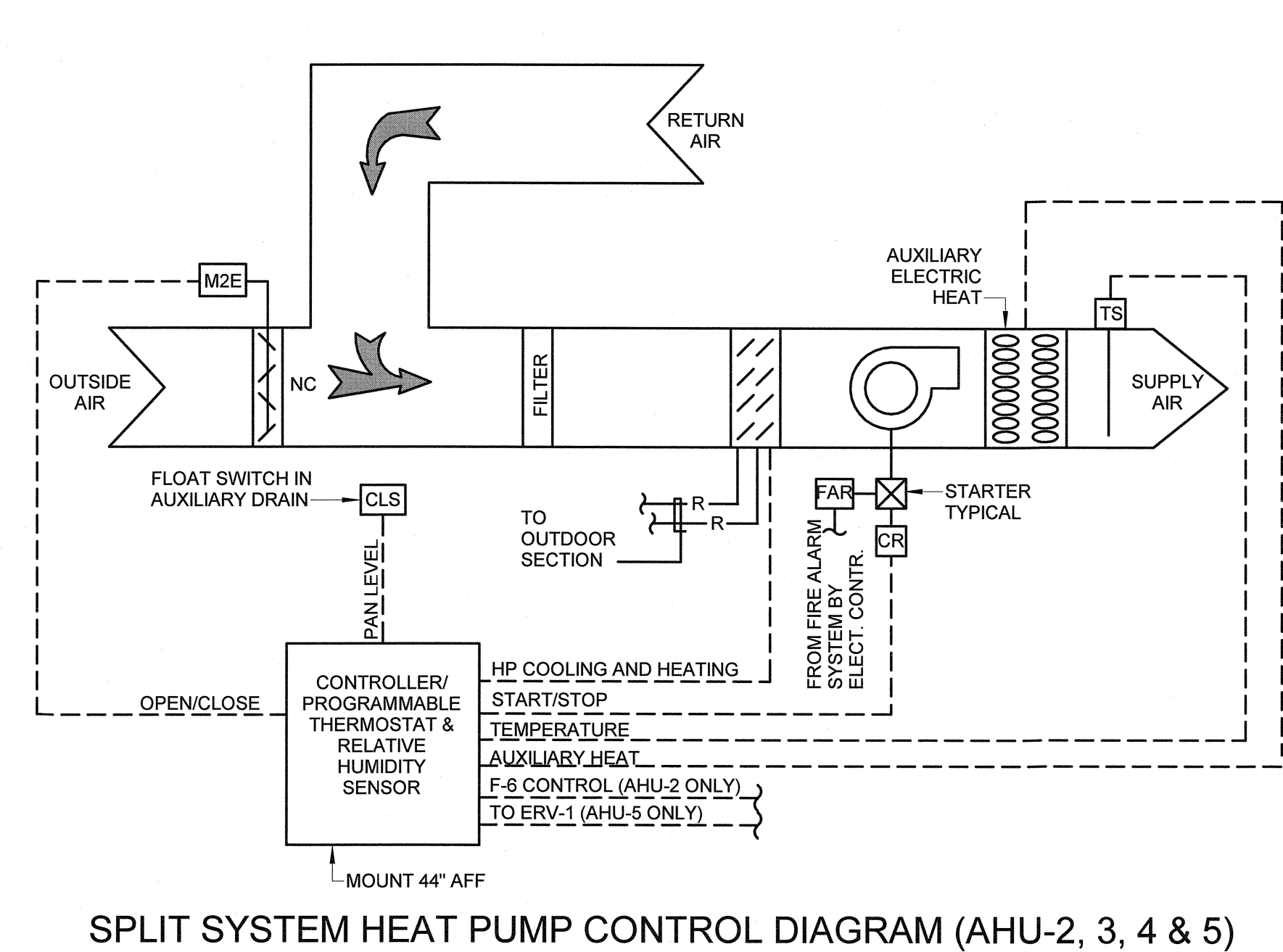
M700



SPLIT SYSTEM HEAT PUMP CONTROL DIAGRAM (AHU-1)

SEQUENCE OF OPERATION

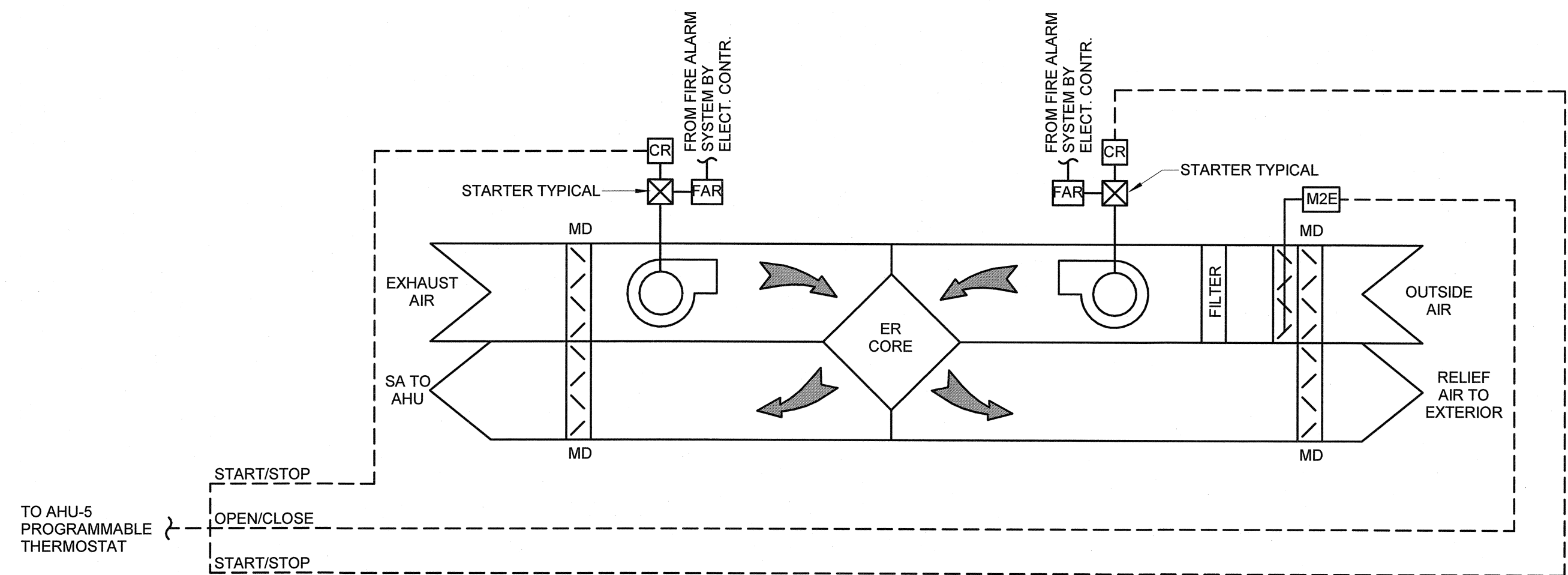
- A. OCCUPIED: INDOOR FAN SHALL OPERATE CONTINUOUSLY. CONTROLLER/THERMOSTAT SHALL MONITOR SPACE TEMPERATURE AND CONTROL THE HEAT PUMP COMPRESSORS FOR COOLING (IN STAGES WHEN AVAILABLE) AND HEAT PUMP COMPRESSORS AND AUXILIARY ELECTRIC HEAT FOR HEATING. OUTSIDE AIR DAMPERS SHALL BE OPEN.
- B. STATIC PRESSURE BYPASS: THE CONTROLLER/THERMOSTAT CONTROLS THE BYPASS DAMPER(S) USING MEASURED DUCT STATIC PRESSURE AND COMPARES THE MEASURED STATIC PRESSURE TO THE SETPOINT. BYPASS DAMPER(S) SHALL MODULATE TO MAINTAIN STATIC PRESSURE SETPOINT WITHIN PLUS OR MINUS 10% (ADJ.). BYPASS DAMPER(S) REMAIN STATIONARY IF THE STATIC PRESSURE IS IN THE DEADBAND.
- C. ZONE DAMPERS:
 1. CONTROLLER/THERMOSTAT SHALL CONTROL THE DAMPER. THE DAMPERS SHALL BE DE-ENERGIZED IN ACCORDANCE WITH TIME SCHEDULES IN THE CONTROLLER/THERMOSTAT.
 2. OCCUPIED MODE: UPON A RISE IN SPACE TEMPERATURE ABOVE THE COOLING SETPOINT THE CONTROLLER/THERMOSTAT SHALL MODULATE THE PRIMARY AIR DAMPER OPEN TO PROVIDE MORE PRIMARY AIRFLOW (UP TO THE MAXIMUM CFM SETTING). ON A DROP IN SPACE TEMPERATURE, THE CONTROLLER/THERMOSTAT SHALL MODULATE THE PRIMARY AIR DAMPER CLOSED TO DELIVER LESS PRIMARY AIRFLOW (DOWN TO THE BOX MINIMUM SETTING).
 3. ZONE SENSOR OPERATIONS: THE ZONE SENSOR MODULE UTILIZES AN ELEMENT TO MEASURE ZONE TEMPERATURE. THE ZONE SENSOR MODULE HAS THE FOLLOWING OPTIONS:
 - a. ZONE TEMPERATURE
 - b. ZONE SETPOINT CONTROL
 - c. TIMED OVERRIDE AND CANCEL
- D. AHU - VOTING SYSTEM:
 1. PROVIDE A PURPOSED CONTROL OF THE SERVING UNIT BASED OFF OF ZONE NEED.
 - a. STANDARD VOTING:
 1. COOLING/HEATING MODE OF THE SERVING UNIT SHALL BE DETERMINED BASED OFF HOW MANY ZONES ARE PLUS/MINUS 1.5 DEGREE (ADJUSTABLE) FROM EACH INDIVIDUAL ZONE'S SETPOINT. IF ALL ZONES ARE 1.5 DEGREES ABOVE SETPOINT THE UNIT SHALL BE IN FULL COOLING. IF ALL ZONES ARE BELOW SETPOINT THE UNIT SHALL BE IN FULL HEATING. IF ALL ZONES ARE WITHIN 1.5 DEGREE OF SETPOINT THE UNIT SHALL BE SATISFIED. EACH ZONE THAT IS ABOVE OR BELOW THE SETPOINT THRESHOLD SHALL GET A VOTE FOR THE MODE IT NEEDS. IF VOTES ARE EQUAL THEN THE UNIT SHALL STAY IN THE LAST COMMANDED MODE.
 - b. PRIORITY VOTING:
 1. IF ANY ZONE IS MORE THAN PLUS/MINUS 3 DEGREES (ADJUSTABLE) THE UNIT SHALL GO INTO FULL COLLING, OR FULL HEATING BASED OF THE MAJORITY OF PRIORITY VOTES.
- E. UNOCCUPIED: INDOOR FAN AND HEAT PUMP COMPRESSORS AND AUXILIARY ELECTRIC HEAT SHALL OPERATE IN STAGES, CYCLING ON AND OFF AS NECESSARY TO MAINTAIN SPACE TEMPERATURE AT UNOCCUPIED HEATING AND COOLING SETPOINTS. OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED.
- F. HUMIDITY CONTROL: UPON SENSING SPACE RELATIVE HUMIDITY ABOVE SETPOINT 85% RH (ADJ.), HEAT PUMP COMPRESSORS SHALL OPERATE FOR COOLING (IN STAGES WHEN AVAILABLE) TO PROVIDE HEAT PUMP COIL LEAVING AIR TEMPERATURE OF 65° F. AUXILIARY ELECTRIC HEATING SHALL OPERATE AS NECESSARY TO MAINTAIN SPACE COOLING TEMPERATURE SETPOINT. WHEN SPACE RELATIVE HUMIDITY DROPS TO 50% RH (ADJ.), HEAT PUMP SYSTEM SHALL RETURN TO NORMAL MODE OF OPERATION.
- G. SIGNAL FROM AUXILIARY CONDENSATE FLOAT SWITCH SHALL DEENERGIZE HEAT PUMP COMPRESSOR IN COOLING UPON SENSING HIGH LEVELS OF CONDENSATE IN AUXILIARY DRAIN.
- H. UNIT SHALL DEENERGIZE IMMEDIATELY UPON SIGNAL FROM FIRE ALARM SYSTEM.
- I. SYSTEMS USING A2L REFRIGERANTS:
 1. SYSTEMS USING A2L WITH REFRIGERANT CHARGE > 4.0 LBS SHALL HAVE INTEGRAL FACTORY INSTALLED REFRIGERANT LEAK DETECTION SYSTEM MOUNTED IN THE AIR HANDLING UNIT SECTION DOWNSTREAM OF THE EVAPORATOR COIL WITH INTERNAL CONTROLS TO AUTOMATICALLY UPON REFRIGERANT DETECTED, UNIT COMMANDS COMPRESSORS AND ELECTRIC HEAT (IF PRESENT) OFF, AND COMMANDS AIR HANDLING UNIT'S FAN TO MAXIMUM AIRFLOW FOR AIR CIRCULATION. ONCE REFRIGERANT HAS NOT BEEN DETECTED FOR A MINIMUM OF 5 MINUTES, UNIT SHALL RETURN TO NORMAL OPERATION.
 2. FOR SYSTEMS USING A2L REFRIGERANT, IF RELEASABLE REFRIGERANT CHARGE IN THE SYSTEM EXCEEDS THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME, PROVIDE SAFETY ISOLATION VALVES IN BOTH REFRIGERANT LINES AS RELEASE MITIGATION CONTROLS. VALVES SHALL AUTOMATICALLY CLOSE UPON SIGNAL FROM THE UNIT INTEGRAL REFRIGERANT LEAK DETECTOR. VALVE LOCATIONS SHALL BE AS SUCH FOR RELEASABLE REFRIGERANT CHARGE TO BE LESS THAN THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME.



SPLIT SYSTEM HEAT PUMP CONTROL DIAGRAM (AHU-2, 3, 4 & 5)

SEQUENCE OF OPERATION

- A. OCCUPIED: INDOOR FAN SHALL OPERATE CONTINUOUSLY. CONTROLLER/THERMOSTAT SHALL MONITOR SPACE TEMPERATURE AND CONTROL THE HEAT PUMP COMPRESSORS FOR COOLING (IN STAGES WHEN AVAILABLE) AND HEAT PUMP COMPRESSORS AND AUXILIARY ELECTRIC HEAT FOR HEATING. OUTSIDE AIR DAMPERS SHALL BE OPEN.
- B. FOR AHU-5: PRIOR TO INDOOR FAN BEING ENERGIZED, ERV-1 AND FANS SHALL BE ENERGIZED FOR 60 SECONDS (MIN.).
- C. UNOCCUPIED: INDOOR FAN AND HEAT PUMP COMPRESSORS AND AUXILIARY ELECTRIC HEAT SHALL OPERATE IN STAGES, CYCLING ON AND OFF AS NECESSARY TO MAINTAIN SPACE TEMPERATURE AT UNOCCUPIED HEATING AND COOLING SETPOINTS. OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED.
- D. HUMIDITY CONTROL: UPON SENSING SPACE RELATIVE HUMIDITY ABOVE SETPOINT 85% RH (ADJ.), HEAT PUMP COMPRESSORS SHALL OPERATE FOR COOLING (IN STAGES WHEN AVAILABLE). AUXILIARY ELECTRIC HEATING SHALL OPERATE AS NECESSARY TO MAINTAIN SPACE COOLING TEMPERATURE SETPOINT. WHEN SPACE RELATIVE HUMIDITY DROPS TO 50% RH (ADJ.), HEAT PUMP SYSTEM SHALL RETURN TO NORMAL MODE OF OPERATION.
- E. SIGNAL FROM AUXILIARY CONDENSATE FLOAT SWITCH SHALL DEENERGIZE HEAT PUMP COMPRESSOR IN COOLING UPON SENSING HIGH LEVELS ON CONDENSATE IN AUXILIARY DRAIN.
- F. UNIT SHALL DEENERGIZE IMMEDIATELY UPON SIGNAL FROM FIRE ALARM SYSTEM.
- G. SYSTEMS USING A2L REFRIGERANTS:
 1. SYSTEMS USING A2L WITH REFRIGERANT CHARGE > 4.0 LBS SHALL HAVE INTEGRAL FACTORY INSTALLED REFRIGERANT LEAK DETECTION SYSTEM MOUNTED IN THE AIR HANDLING UNIT SECTION DOWNSTREAM OF THE EVAPORATOR COIL WITH INTERNAL CONTROLS TO AUTOMATICALLY UPON REFRIGERANT DETECTED, UNIT COMMANDS COMPRESSORS AND ELECTRIC HEAT (IF PRESENT) OFF, AND COMMANDS AIR HANDLING UNIT'S FAN TO MAXIMUM AIRFLOW FOR AIR CIRCULATION. ONCE REFRIGERANT HAS NOT BEEN DETECTED FOR A MINIMUM OF 5 MINUTES, UNIT SHALL RETURN TO NORMAL OPERATION.
 2. FOR SYSTEMS USING A2L REFRIGERANT, IF RELEASABLE REFRIGERANT CHARGE IN THE SYSTEM EXCEEDS THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME, PROVIDE SAFETY ISOLATION VALVES IN BOTH REFRIGERANT LINES AS RELEASE MITIGATION CONTROLS. VALVES SHALL AUTOMATICALLY CLOSE UPON SIGNAL FROM THE UNIT INTEGRAL REFRIGERANT LEAK DETECTOR. VALVE LOCATIONS SHALL BE AS SUCH FOR RELEASABLE REFRIGERANT CHARGE TO BE LESS THAN THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME.



ENERGY RECOVERY VENTILATOR

SEQUENCE OF OPERATION

- A. GENERAL:
 1. PRIOR TO AHU-5 INDOOR FAN BEING ENERGIZED, ERV-1 FANS SHALL BE ENERGIZED FOR 60 SECONDS (MIN.) AND OUTSIDE AIR MOTOR OPERATED DAMPER SHALL BE OPEN.
 2. FANS SHALL DEENERGIZE IMMEDIATELY UPON SIGNAL FROM FIRE ALARM SYSTEM.



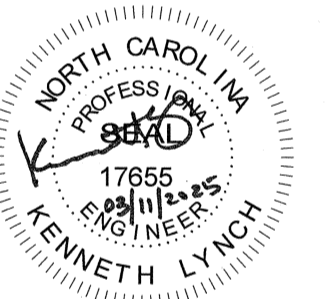
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ONSLOW COUNTY BEAR CREEK FIRE STATION ONSLOW COUNTY BID. NO. 102-25C 138 OLD SAND RIDGE RD. HUBERT, NC 28639

SEALS



DKA JOB NUMBER 2324

REVISIONS

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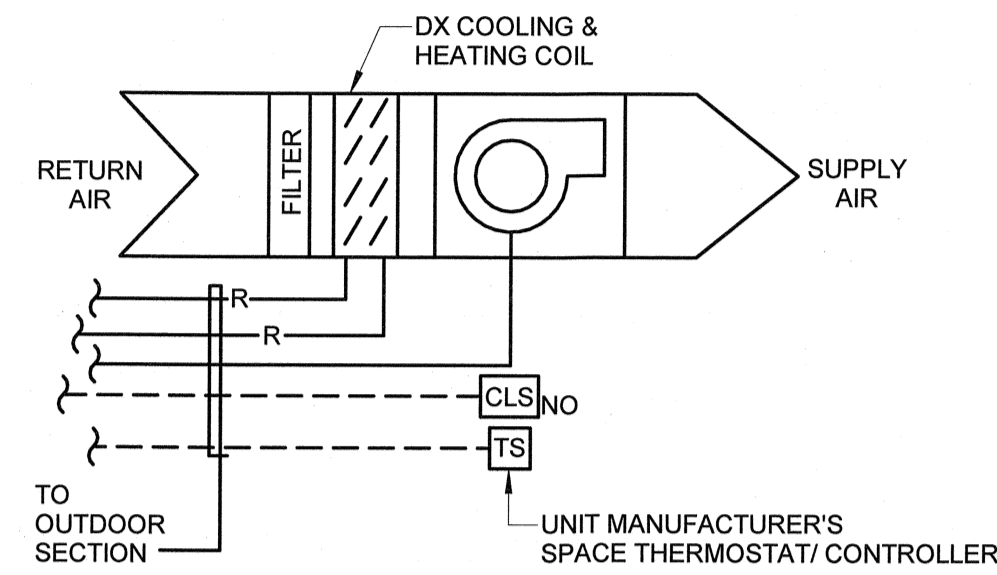
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DATE ISSUED

BID DOCUMENTS 03/12/2025

SHEET TITLE MECHANICAL CONTROL DIAGRAMS

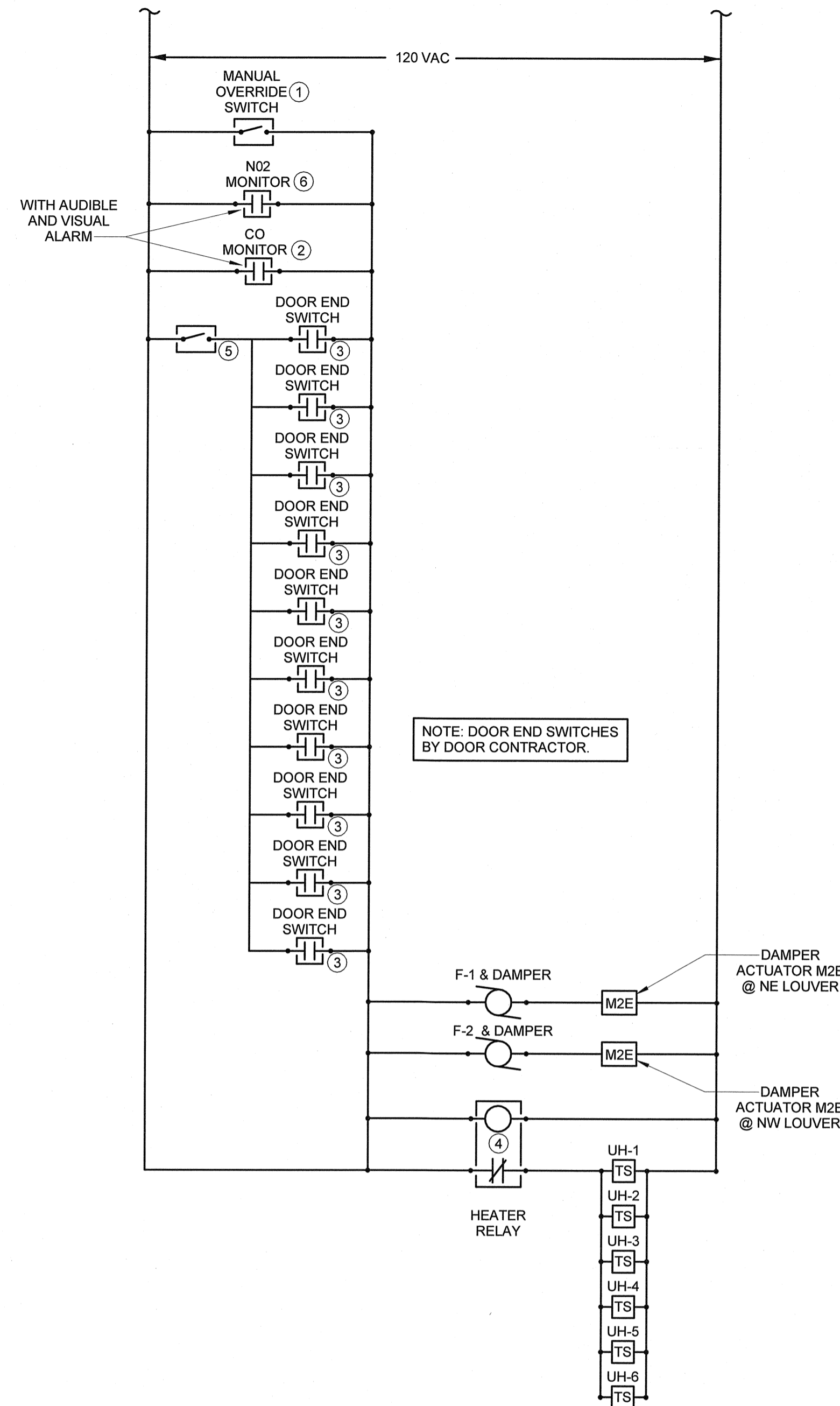
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DUCTLESS SPLIT SYSTEM HEAT PUMP

SEQUENCE OF OPERATION

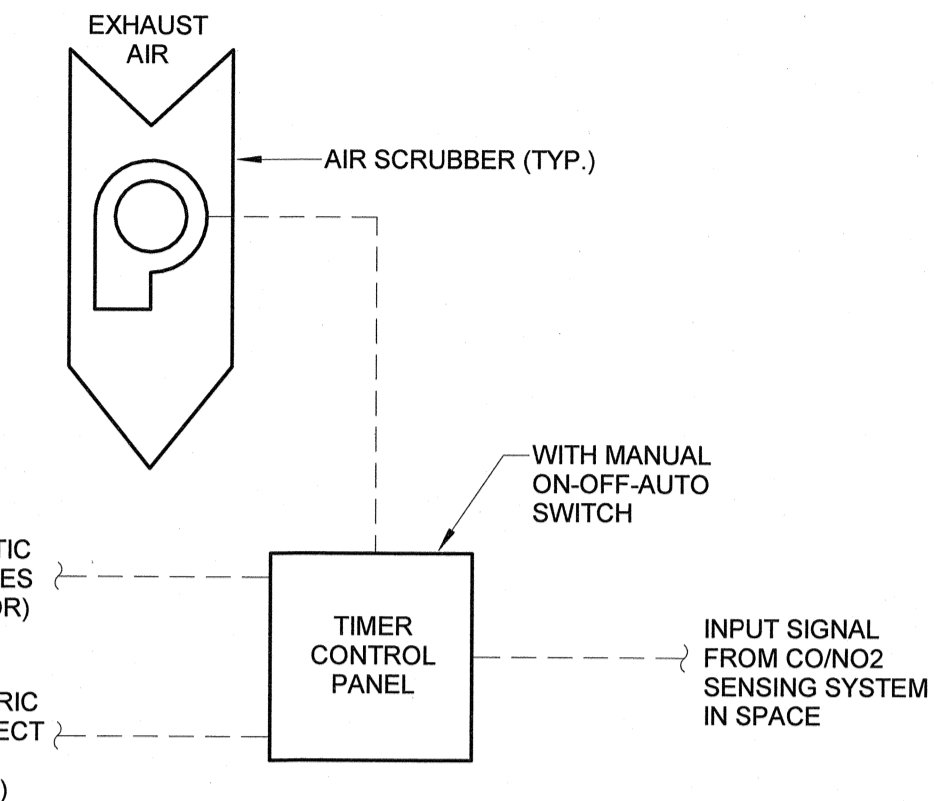
- A. MANUFACTURER FURNISHED WALL MOUNTED HARD WIRED THERMOSTAT SHALL CONTROL UNIT.
B. LEVEL SWITCH IN CONDENSATE PUMP SHALL DEENERGIZE HEAT PUMP ON HIGH LEVELS.
C. SYSTEMS USING A2L REFRIGERANTS:
1. SYSTEMS USING A2L WITH REFRIGERANT CHARGE > 4.0 LBS SHALL HAVE INTEGRAL FACTORY INSTALLED REFRIGERANT LEAK DETECTION SYSTEM MOUNTED IN THE AIR HANDLING UNIT SECTION DOWNSTREAM OF THE EVAPORATOR COIL WITH INTERNAL CONTROLS TO AUTOMATICALLY UPON REFRIGERANT DETECTED, UNIT COMMANDS COMPRESSORS AND ELECTRIC HEAT (IF PRESENT) OFF, AND COMMANDS AIR HANDLING UNIT'S FAN TO MAXIMUM AIRFLOW FOR AIR CIRCULATION. ONCE REFRIGERANT HAS NOT BEEN DETECTED FOR A MINIMUM OF 5 MINUTES, UNIT SHALL RETURN TO NORMAL OPERATION.
2. FOR SYSTEMS USING A2L REFRIGERANT, IF RELEASABLE REFRIGERANT CHARGE IN THE SYSTEM EXCEEDS THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME, PROVIDE SAFETY ISOLATION VALVES IN BOTH REFRIGERANT LINES AS RELEASE MITIGATION CONTROLS. VALVES SHALL AUTOMATICALLY CLOSE UPON SIGNAL FROM THE UNIT INTEGRAL REFRIGERANT LEAK DETECTOR. VALVE LOCATIONS SHALL BE AS SUCH FOR RELEASABLE REFRIGERANT CHARGE TO BE LESS THAN THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME.



FIRE STATION APPARATUS BAY HEATING & VENTILATION CONTROL DIAGRAM

SEQUENCE OF OPERATION

- A. WHEN MANUAL OVERRIDE SWITCH (1) IS OPEN, FANS F-1 AND F-2 ARE OFF AND UNIT HEATERS ARE ALLOWED TO OPERATE.
B. WHEN MANUAL OVERRIDE SWITCH (1) IS CLOSED, REGARDLESS OF DOOR POSITION, FANS F-1 AND F-2 SHALL BE ON AND UNIT HEATERS SHALL BE OFF VIA RELAY (4).
C. WHEN CARBON MONOXIDE MONITOR (2) REACHES ALARM LEVEL, RELAY SHALL ENERGIZE FANS F-1 AND F-2, ALARM, AND DEENERGIZE UNIT HEATERS VIA NC RELAY (4).
D. WHEN ANY DOOR END SWITCH (3) IS CLOSED BECAUSE DOOR IS OPEN, FANS F-1 AND F-2 SHALL BE ON AND UNIT HEATERS SHALL BE OFF VIA NC RELAY (4). IF IT IS DESIRED TO STOP FANS F-1 AND F-2 WITH DOORS OPEN, OPEN SWITCH (5).
E. WHEN ALL DOORS ARE CLOSED, FANS F-1 AND F-2 ARE OFF AND UNIT HEATERS SHALL OPERATE AS REQUIRED BY SPACE SENSOR.
F. WHEN NITROGEN DIOXIDE MONITOR (6) REACHES ALARM LEVEL, RELAY SHALL ENERGIZE FANS F-1 AND F-2, ALARM, AND DEENERGIZE UNIT HEATERS VIA NC RELAY (4).



ALTERNATE M-1 AIR SCRUBBER SEQUENCE OF OPERATION

- A. AIR SCRUBBER ACTIVATION SHALL BE VIA THE FOLLOWING, ALL IN PARALLEL:
1. MAGNETIC DOOR SWITCH (ONE PER VEHICLE DOOR) AS PART OF AIR SCRUBBER SYSTEM.
2. PHOTOELECTRIC EYES (TO DETECT VEHICLE MOVEMENT) AS PART OF AIR SCRUBBER SYSTEM.
3. MANUAL ON-OFF-AUTO SELECTOR SWITCH WITH LABEL.
4. INPUT SIGNAL FROM CARBON MONOXIDE (CO)/NITROGEN DIOXIDE (NO2) SENSING SYSTEM IN SPACE, SENSING SYSTEM AS SPECIFIED IN SECTION 230900 BY CONTROL CONTRACTOR.
B. AIR SCRUBBER UNITS SHALL BE ACTIVATED SEQUENTIALLY IN GROUPS OF TWO, AFTER 15 SECOND DELAYS, UNTIL ALL UNITS ARE ACTIVATED.
C. ONCE ACTIVATED, ELAPSED TIME FOR SCRUBBER OPERATION SHALL BE USER-DETERMINED WITH TIMING RANGE OF 1 MINUTE TO 120 MINUTES.

CONTROL SYMBOL LEGEND

Table with 2 columns: Symbol and Description. Includes entries for TS (Temperature Sensor), HT (Humidity Sensor), CR (Control Relay), M2E (Motor Operated Two Position Electric), MPE (Motor Operated Proportional Electric), NO (Normally Open), NC (Normally Closed), FAR (Fire Alarm Relay), CLS (Condensate Level Sensor), OV (Occupancy/Vacancy Sensor), SA (Supply Air), RA (Return Air), OA (Outside Air), CO (Carbon Monoxide), and NO2 (Nitrous Dioxide).

ELECTRICAL NOTES

- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- PERMITS FOR ELECTRICAL WORK SHALL BE OBTAINED BY AND PAID BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ANY ADDITIONAL FEES FOR INSPECTIONS, TESTS, AND OTHER SERVICES AS REQUIRED FOR THE COMPLETION OF THE WORK.
- THE ELECTRICAL CONTRACTOR AND ANY OF HIS SUBCONTRACTORS SHALL VISIT THE PROJECT SITE TO WITNESS EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE SCOPE OF THE WORK REQUIRED PRIOR TO SUBMITTING PROPOSALS. WORK REQUIRED BY EXISTING JOB CONDITIONS NOT INDICATED ON DRAWINGS SHALL BE INCLUDED IN THE PROPOSALS.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO RESULT IN THE PRODUCTION OF A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, AND OTHER SERVICES AS NECESSARY TO COMPLETE THE WORK.
- DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS THAT WILL AFFECT THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO SUBMITTING PROPOSALS.
- UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND INCLUDE A 3RD PARTY LABEL (I.E.: UL, CSA, ETL, ETC.) LISTING APPROVAL FOR ITS INSTALLED APPLICATION.
- REVIEW PLANS OF OTHER TRADES FOR COORDINATION OF WORK AND FOR RELATED AND ADJOINING WORK.
- REVIEW COMPLETE PLAN SET FOR CONSTRUCTION TYPE, FINISHES, HEADROOM, ROOF FINISHES, CEILINGS, ETC. REVIEW COMPLETE PLAN SET FOR PROJECT PHASING AND STAGING. REVIEW COMPLETE PLAN SET FOR WORK COVERED BY ALTERNATE BID ITEMS.
- COORDINATE DEVICE AND EQUIPMENT MOUNTING HEIGHTS WITH OTHER DISCIPLINE DRAWINGS, CASEWORK DETAILS & SUBMITTALS, EQUIPMENT DETAILS & SUBMITTALS, ETC.
- PENETRATIONS OF FIRE-RATED WALLS, FLOORS, CEILINGS, AND PARTITIONS SHALL BE FIRE STOPPED IN ACCORDANCE WITH REQUIREMENTS OF THE STATE BUILDING CODE. COORDINATE WORK TO INSURE THAT FIRE STOPPING IS COMPLETED.
- PENETRATIONS OF EXTERIOR BUILDING WALLS, FLOORS, OR ROOFS SHALL BE SEALED WATERTIGHT. INTERIORS OF RACEWAY PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WITH NON-HARDENING ELECTRICAL PUTTY.
- CUTTING AND PATCHING TO INSTALL DEVICES AND EQUIPMENT SHALL BE PERFORMED WITH FINISHES RESTORED TO THEIR ORIGINAL CONDITION. SUCH WORK SHALL BE COMPLETED TO A DEGREE THAT IS ACCEPTABLE TO THE ARCHITECT, ENGINEER, AND OWNER.
- COORDINATE PRECISE LOCATION OF HVAC EQUIPMENT WITH THE MECHANICAL CONTRACTOR.
- FOR HVAC EQUIPMENT, VERIFY CIRCUIT BREAKER RATINGS, FUSE RATINGS, AND WIRE SIZES. IF RATINGS DIFFER FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT, ENGINEER, AND OWNER FOR DIRECTION. PROVIDE OVERCURRENT PROTECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURER NAMEPLATE DATA. IF THE EQUIPMENT LISTING LABEL REQUIRES FUSED PROTECTION, ENSURE THAT FUSES IN A FUSED DISCONNECT SWITCH AT THE EQUIPMENT ARE SIZED AS INDICATED ON THE EQUIPMENT LABEL.
- VERIFY PROPER SIZING OF OVERLOAD DEVICES IN STARTERS BASED ON EQUIPMENT NAMEPLATE DATA.
- IF HORSEPOWER OR LOAD RATINGS OF EQUIPMENT DIFFER FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT, ENGINEER, AND OWNER FOR DIRECTION.
- PROVIDE NATIONAL ELECTRICAL CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES.
- RECEPTACLE, SWITCH, DATA/TELEPHONE OUTLETS SHALL BE FLUSH MOUNTED IN FINISHED SPACES UNLESS OTHERWISE NOTED.
- PRIOR TO ORDERING LIGHT FIXTURES, CONTRACTOR SHALL VERIFY TYPE OF CEILING OR WALL BY REVIEW OF ARCHITECTURAL FINISH SCHEDULES AND PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL INDICATED.
- RECESSED LIGHT FIXTURES INSTALLED IN CEILINGS WITH INSULATION (AS INDICATED IN ARCHITECTURAL PLANS, OR FOUND AS EXISTING CONDITIONS) SHALL BE U.L. RATED FOR DIRECT CONTACT WITH INSULATION.
- RECESSED LIGHT FIXTURES INSTALLED IN FIRE RATED CEILING SHALL BE U.L. RATED FOR USE IN FIRE RATED CEILINGS OR SHALL BE INSTALLED WITH "TENTING" IN ACCORDANCE WITH RATING REQUIREMENTS OF THE CEILING ASSEMBLY.
- EXIT AND EMERGENCY LIGHTS SHALL BE CONNECTED TO THE NEAREST UNSWITCHED CIRCUIT THAT SERVES LIGHT FIXTURES WITHIN THE SAME SPACE.
- NO MOUNTING HARDWARE SHALL BE ATTACHED TO ROOF DECKS. ATTACHMENTS SHALL BE MADE TO THE ROOF SUPPORTING STRUCTURE.
- PANEL BUS MATERIAL: COPPER.
- SHARED NEUTRAL CONDUCTORS SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED SO ON HOMERUN CIRCUITRY DESIGNATIONS.
- PANEL BREAKER CONFIGURATIONS SHALL BE INSTALLED AS INDICATED ON THE PANEL SCHEDULES OR AS NOTED. BREAKER POSITION REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
- LOAD CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. CIRCUITRY REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLER UNIT
AIC	AMPS INTERRUPTING CAPABILITY
AS	AIR SCRUBBER
BKR	BREAKER
C	CONDUIT
C/B	CIRCUIT BREAKER
CLG	CEILING
CKT	CIRCUIT
CO	CARBON MONOXIDE COMPRESSOR
COMP	COPPER
CU	DUCTLESS AIR HANDLING UNIT
DAHU	DUCTLESS HEAT PUMP
DHP	DIAMETER
DIA	DRAWING
DWG	ELECTRIC BASEBOARD HEATER
EBB	ELECTRICAL CONTRACTOR
EC	ENCLOSED
ENCL	ENERGY RECOVERY VENTILATOR
ERV	EXISTING
EXSTG	FIRE ALARM CONTROL PANEL
FACP	FIRE POWER LIMITED
FPL	EQUIPMENT GROUND
G	GROUNDING ELECTRODE CONDUCTOR
GEC	GROUND FAULT CIRCUIT INTERRUPTER
GFCI	GROUND FAULT EQUIPMENT PROTECTION
GFP	GROUND FAULT INTERRUPTER
GFI	HEAT PUMP
HP	HORSEPOWER
K	KILO (THOUSAND)
LED	LIGHT EMITTING DIODE
LTG	LIGHTS
LTS	LIGHTS
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
MTD	MOUNTED
N/A	NOT APPLICABLE
NAC	NOTIFICATION APPLIANCE CIRCUIT
NEC	NATIONAL ELECTRICAL CODE
NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOC.
NTS	NOT TO SCALE
P	PHASE OR POLE
PC	PLUMBING CONTRACTOR
PH	PHASE
PNL	PANEL
REC	RECEPTACLE
RECPT	RECEPTACLE
REQ.	REQUIRED
SLC	SIGNALING LINE CIRCUIT SYSTEM
SYS	SYSTEM
S/N	SOLID NEUTRAL TYPICAL
UHF	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPS
W	WATTS
W	WIRE
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER

MISC. ELECTRICAL SYMBOL LEGEND

	EQUIPMENT CONNECTION
	SAFETY SWITCH DISCONNECT, HEAVY-DUTY, FUSED AT NAMEPLATE RATING OF EQUIPMENT SERVED, NEMA 1 INSIDE, NEMA 3R OUTSIDE (UNO), AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT BREAKER RATING.
	PANELBOARD, SEE PANEL SCHEDULE
	GROUND ROD, 3/4" X 10' COPPER CLAD. WHERE TWO RODS ARE INDICATED, SPACE A MINIMUM OF 22' APART.
	SWITCH CONTROLLER FOR APPARATUS DOOR OPERATOR. COORDINATE CIRCUITRY REQUIREMENTS FOR CONTROLLER AND OTHER DOOR DEVICES AND COMPONENTS WITH THE DOOR VENDOR/INSTALLER.
	1/2-HR FIRE PARTITION REFER TO ARCHITECTURAL PLANS FOR RATED WALL LOCATIONS
	2-HR FIRE BARRIER REFER TO ARCHITECTURAL PLANS FOR RATED WALL LOCATIONS
	HOMERUN DESIGNATION, #12 CONDUCTORS UNLESS NOTED OTHERWISE.
	EQUIPMENT GROUND CONDUCTOR
	PHASE CONDUCTOR
	NEUTRAL CONDUCTOR
	LETTER INDICATES ELEVATION OR DETAIL; NUMBER INDICATES PLAN OR SECTION
	SHEET NUMBER WHERE PLAN, SECTION, ELEVATION OR DETAIL IS DRAWN

APPENDIX B, BUILDING CODE SUMMARY ELECTRICAL SUMMARY

METHOD OF COMPLIANCE
 -ENERGY CODE: PRESCRIPTIVE PERFORMANCE
 -ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE

LIGHTING SCHEDULE
 Lamp Type Required in Fixtures
 Number of Lamps in Fixtures
 Ballast Types Used in Fixtures
 Number of Ballasts Used in Fixtures
 Total Wattage per Fixture

SEE LIGHT FIXTURE / LUMINAIRE SCHEDULE

TOTAL WATTAGE SPECIFIED VERSUS ALLOWED
 Interior Specified: 7702 Watts Exterior Specified: 796 Watts
 Interior Allowed: 8591 Watts Exterior Allowed: 1517 Watts

ADDITIONAL METHOD OF COMPLIANCE:
 C406.2 More Efficient HVAC Equipment Performance
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

DESIGNER STATEMENT
 To the best of my knowledge and belief, the design of this building complies with the electrical systems and equipment requirements of the North Carolina State Building Code, Section 406 of the North Carolina Energy Conservation Code.

SIGNED: *Mark A. Ciarrocca*
 NAME: Mark A. Ciarrocca, P.E.
 TITLE: Engineer

WARNING

Maximum Available Fault Current:
 20,452 Symmetrical RMS Amperes
 Date: 01/30/2025
 Based on:
 Utility Transformer: 300 kVA (Maximum)
 Utility Transformer: 3.5% Impedance (Minimum)
 Service Feeder: #500 (2 SETS)(Maximum) Copper
 Service Feeder Length: 50' (Minimum)
 Motor Load: 93.5 kVA (Maximum)

NOTE:
 THE CONTRACTOR SHALL OBTAIN INSTALLED SERVICE TRANSFORMER DATA AND AVAILABLE FAULT CURRENT DATA FROM THE UTILITY COMPANY. FORWARD INFORMATION TO THE ENGINEER FOR ASSESSMENT OF REVISIONS TO THE LABEL DATA.

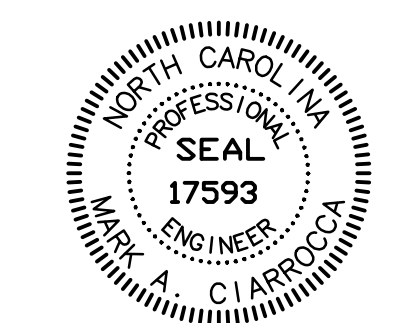
FAULT CURRENT LABEL FOR SERVICE EQUIPMENT
 NO SCALE



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ONSLOW COUNTY BEAR CREEK FIRE STATION
 ONSLOW COUNTY
 BID. NO. 102-25C
 138 OLD SAND RIDGE RD, HUBERT, NC 28639

SEALS



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DKA JOB NUMBER
 2324

REVISIONS

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 PM: ALEXANDRE PENEGRE
 Drawn By: J. GRITTON
 Plot Date: 1/27/2025

DATE ISSUED

BID DOCUMENTS
 03/12/2025

SHEET TITLE
 ELECTRICAL NOTES, LEGENDS

E001

SWITCH LEGEND		
SYMBOL	DESCRIPTION	NOTES
\$ ₀	DIMMER SWITCH	1200W; MTD 42" AFF UNO
\$ ₀₃	DIMMER SWITCH FOR 3-WAY CONTROL	20A; MTD 42" AFF UNO
\$ ₄	4-WAY SWITCH	20A; MTD 42" AFF UNO
\$ ₀₀	OCCUPANCY SENSOR WALL SWITCH, DIMMER; DUAL TECHNOLOGY	20A; MTD 42" AFF UNO
\$ ₀₁	OCCUPANCY SENSOR WALL SWITCH, SINGLE CKT, DUAL TECHNOLOGY	20A; MTD 42" AFF UNO
⊕	OCCUPANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY; CEILING MTD	INCORPORATE POWER PACK FOR CIRCUITRY SWITCHING, SEE WIRING DIAGRAMS
⊖	PHOTOCELL, EXTERIOR	MOUNT ON NORTH FACE OF BLDG, FACING NORTH
\$	TOGGLE SWITCH, SINGLE POLE	20A; MTD 42" AFF UNO; WHERE USED AS AN EQUIPMENT DISCONNECT, PROVIDE LOCKABLE TYPE COVER.
\$ ₃	3-WAY SWITCH	20A; MTD 42" AFF UNO

FIRE ALARM DEVICE LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
Ⓚ	24V ELECTRIC ALARM BELL	WALL MTD ABOVE DOOR
Ⓜ	CONTROL / RELAY MODULE	
ERRCS	EMERGENCY RESPONDER COMMUNICATION COVERAGE SYSTEM PANEL	WALL
ERRCS-RA	EMERGENCY RESPONDER COMMUNICATION COVERAGE SYSTEM REMOTE ANNUNCIATOR	WALL
FACP	FIRE ALARM CONTROL PANEL	WALL
MF	MONITOR MODULE FOR FLOW SWITCH	
MTS	MONITOR MODULE FOR TAMPER SWITCH	
MMSS	MONITOR MODULE WITH SURGE SUPPRESSOR FOR CONNECTION OF EXTERNAL CIRCUITRY	
MM	MONITOR MODULE FOR MONITORING A DRY CONTACT CLOSURE DEVICE	
PIV	POST INDICATOR VALVE TAMPER SWITCH	
RA	REMOTE ANNUNCIATOR FOR FIRE ALARM PANEL	WALL
S	SMOKE DETECTOR	WALL
TS	SPRINKLER BACKFLOW PREVENTER TAMPER SWITCH	
Ⓚ	120V SMOKE / CARBON MONOXIDE COMBINATION DETECTOR FOR CORRIDOR AREAS, INTEGRAL 9V REPLACEABLE BATTERY BACKUP. DEVICES SHALL BE INTERCONNECTED TO ALARM ALL DEVICES UPON DETECTION AT ANY DEVICE	CEILING
Ⓚ	120V SMOKE DETECTOR FOR DORM SLEEPING AREAS, INTEGRAL 9V REPLACEABLE BATTERY BACKUP. DEVICES SHALL BE INTERCONNECTED TO ALARM ALL DEVICES UPON DETECTION AT ANY DEVICE	CEILING

RECEPTACLE & OUTLET LEGEND				
SYMBOL	NEMA	VOLTS	DESCRIPTION	
Ⓚ		120V 1P 2W	POWER FOR DOOR BELL, MTD AT 96" AFF.	
Ⓚ	5-20R	120V 1P 2W	DUPLEX, MTD 18" AFF UNO	
Ⓚ	5-20R	120V 1P 2W	POWER FOR GENERATOR BLOCK HEATER	
Ⓚ	5-20R	120V 1P 2W	CORD REEL WITH DUPLEX GFCI; PROVIDE DUPLEX OUTLET AT CEILING AND PLUG IN CORD REEL, MOUNT CORD REEL AT CEILING STRUCTURE; #12/3 SJEOWW CORD WITH CORD STOP TO KEEP RECEPTACLE AT 24" AFF. DESIGN BASIS: REELCRAFT #L-4545-123-7A. COORDINATE LOCATION AND OUTLET HEIGHT WITH OWNER, UNIT HEATER INSTALLED LOCATION, AND LIGHT FIXTURES.	
Ⓚ	5-20R	120V 1P 2W	DUPLEX, MTD 6" ABOVE COUNTER OR 6" ABOVE BACKSPASH IF APPLICABLE. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL BACKSPASH DETAILS.	
Ⓚ	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 6" ABOVE COUNTER OR 6" ABOVE BACKSPASH IF APPLICABLE. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL BACKSPASH DETAILS.	
Ⓚ	5-20R	120V 1P 2W	DISHWASHER OUTLET, DUPLEX, MTD 12" AFF UNO. SUPPLY FROM GFCI TYPE C/B.	
Ⓚ	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 18" AFG UNO; LISTED WEATHER-RESISTANT TYPE; PROVIDE CAST ALUMINUM WEATHERPROOF IN-USE COVER WITH CAST ALUMINUM FD WEATHERPROOF BOX	
Ⓚ	5-20R	120V 1P 2W	DUPLEX; MTD IN FLUSH FLOOR BOX; SEE AUX SYS PLANS FOR SHARED BOX; PROVIDE DIVIDER FOR POWER SEPARATION FROM VOICE/DATA	
Ⓚ	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 18" AFF UNO	
Ⓚ	5-20R	120V 1P 2W	DUPLEX FOR HOT BOX HEATER; LISTED WEATHER-RESISTANT TYPE; PROVIDE CAST ALUMINUM WEATHERPROOF IN-USE COVER WITH CAST ALUMINUM FD WEATHERPROOF BOX. COORDINATE MTG HEIGHT WITH ENCLOSURE PROVIDED; SUPPLY FROM GFEP C/B (30mA).	
Ⓚ	5-20R	120V 1P 2W	DUPLEX FOR ICE MACHINE; MTD 18" AFF UNO	
Ⓚ	5-20R	120V 1P 2W	DUPLEX FOR REFRIGERATOR; MOUNT 48" AFF UNO. SUPPLY FROM GFCI TYPE C/B.	
Ⓚ	5-20R	120V 1P 2W	DUPLEX, LOCATED BEHIND TV MOUNT IN RECESSED LCD OUTLET BOX (COORDINATE SPECIFIC LOCATION WITH OWNER/ARCHITECT). SEE AUXILIARY SYSTEMS PLANS FOR SHARED BOX WITH DATA OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER. MTD 66" AFF UNO, CONFIRM WITH ARCHITECT AND OWNER.	
Ⓚ	5-20R	120V 1P 2W	DUPLEX FOR WASHER, MTD 30" AFF UNO. SUPPLY FROM GFCI TYPE C/B.	
Ⓚ	ERRCS	120V 1P 2W	POWER FOR EMERGENCY RESPONDER COMMUNICATION COVERAGE SYSTEM	
Ⓚ	FACP	120V 1P 2W	POWER FOR FIRE ALARM CONTROL PANEL	
Ⓚ	S	120V 1P 2W	POWER FOR SMOKE AND SMOKE / CO COMBINATION DETECTORS, MTD AT CEILING LEVEL.	
Ⓚ	Ⓚ	5-20R	120V 1P 2W	QUAD, MTD 18" AFF UNO
Ⓚ	BATT CHG	5-20R	120V 1P 2W	POWER FOR GENERATOR BATTERY CHARGER, BATTERY HEATER, & WINDING HEATER
Ⓚ	EWC	5-20R	120V 1P 2W	QUAD FOR ELECTRIC WATER COOLER OUTLET; COORDINATE MTG LOCATION TO CONCEAL OUTLET WHEN COOLER IS INSTALLED; SUPPLY FROM GFCI TYPE C/B.
Ⓚ	D	14-30R	208/120V 2P 3W	DRYER OUTLET, MTD 30" AFF UNO.
Ⓚ	GD	6-30R	240/120V 2P 3W	GEAR DRYER OUTLET, MTD 18" AFF UNO.
Ⓚ	R	14-50R	208/120V 2P 3W	RANGE OUTLET; COORDINATE MTG HEIGHT WITH REQUIREMENTS OF EQUIPMENT PROVIDED
Ⓚ	Ⓚ		120V 1P 2W	EXHAUST FAN; SEE MECHANICAL SCHEDULE. PROVIDE POWER PACK FOR SWITCHING WITH LIGHTING CEILING OCCUPANCY SENSOR.

WALL SLEEVE LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
▬	WALL SLEEVE, RATED WALLS	ABOVE CEILING, FOR LOW VOLTAGE CABLES; PRE-ENGINEERED FIRE-RATED PASS-THROUGH; DESIGN BASIS: STI EZ-PATH SERIES 44

DATA & TELEPHONE OUTLET LEGEND			
SYMBOL	DESCRIPTION	MOUNTING	NOTES
Ⓚ	TV OUTLET	WALL, LOCATED BEHIND TV MOUNT IN RECESSED LCD OUTLET BOX (COORDINATE SPECIFIC LOCATION AND MOUNTING HEIGHT WITH ARCHITECT).	SEE POWER PLANS FOR SHARED BOX WITH POWER OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER. STUB (2) 1" C TO 6" ABOVE CEILING INSTALL (1) CAT 6 CABLE FROM ELEC 125
Ⓚ	DATA OUTLET FOR ACCESS POINT	4" SQUARE BOX MOUNTED 24" ABOVE CEILING	INSTALL (1) CAT 6A CABLE TO ELEC 127. MOUNT OWNER PROVIDED EQUIPMENT AT CEILING OR WALL MOUNTED IF INDICATED. PROVIDE PATCH CORD FROM OUTLET TO EQUIPMENT.
Ⓚ	DATA / TELEPHONE OUTLET	WALL, 18" AFF UNO; 5" SQUARE, 2.875" DEEP BOX, 64 CUBIC INCHES, WITH CABLE MANAGEMENT POSTS. DESIGN BASIS: STEEL CITY #82181T SERIES	STUB 1" C TO 6" ABOVE CEILING INSTALL (2) CAT 6 CABLES FROM ELEC 125 STUB SPARE 1" C TO 6" ABOVE CEILING
Ⓚ	WALL MOUNTED EQUIPMENT RACK	WALL; TOP AT 70" AFF	
Ⓚ	DATA / TELEPHONE OUTLET	FLOOR, INTEGRAL TO POWER FLOOR BOX WITH DIVIDER SEPARATING POWER & COMMUNICATIONS	ROUTE (2) 1" C UNDERGROUND, TURN UP INTO WALL CAVITY, & STUB UP TO 6" ABOVE CEILING INSTALL (2) CAT 6 CABLES FROM ELEC 125
Ⓚ	TELEPHONE OUTLET	WALL, 42" AFF UNO; 4" SQUARE, DEEP BOX	STUB 1" C TO 6" ABOVE CEILING INSTALL (2) CAT 6 TELEPHONE CABLES FROM ELEC 125
Ⓚ	COMMUNICATIONS OUTLET FOR FIRE ALARM SYSTEM	ROUTE CONDUITS DIRECTLY INTO FIRE ALARM SYSTEM ENCLOSURE.	STUB 3/4" C FROM ELEC 125, INSTALL (1) CAT 6 TELEPHONE CABLE FROM ELEC 125 STUB 3/4" C FROM ELEC 125, INSTALL (1) CAT 6 NETWORK CABLE FROM ELEC 125

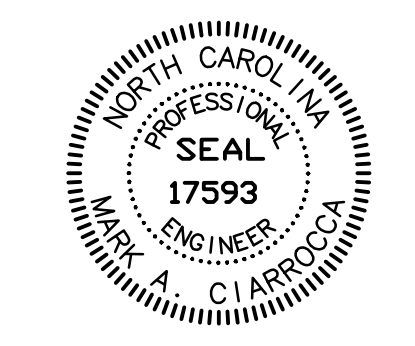
SECURITY LEGEND			
SYMBOL	DESCRIPTION	MOUNTING	NOTES
Ⓚ	BUZZER / BELL		4" SQUARE BOX RECESSED; STUB 3/4" C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE. INSTALL MANUFACTURER RECOMMENDED CABLING.
Ⓚ	SECURITY CAMERA (INFRASTRUCTURE ONLY)		4" SQUARE BOX RECESSED; STUB 3/4" C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE INSTALL (1) CAT 6 CABLE TO ELEC 127.
Ⓚ	CARD READER (INFRASTRUCTURE ONLY)		4" SQUARE BOX RECESSED; STUB 1" C TO 6" ABOVE CEILING
Ⓚ	DOOR SWITCH / CONTACT (INFRASTRUCTURE ONLY)	RECESSED	PROVIDE 3/4" C FROM SWING SIDE OF DOOR HEADER TO ACCESSIBLE CEILING
Ⓚ	ELECTRIC HINGE (INFRASTRUCTURE ONLY)		1/2" FLEXIBLE METALLIC CONDUIT CONCEALED IN DOOR FRAME TO JUNCTION BOX MTD ABOVE CEILING. PROVIDE PATHWAY THROUGH DOOR TO ACCOMMODATE CONNECTION TO ASSOCIATED ELECTRIC STRIKE.
Ⓚ	ELECTRIC STRIKE (INFRASTRUCTURE ONLY)		FOR SINGLE DOOR, PROVIDE 1/2" FLEXIBLE METALLIC CONDUIT CONCEALED IN DOOR FRAME TO JUNCTION BOX MTD ABOVE NEAREST ACCESSIBLE CEILING.
Ⓚ	PUSHBUTTON	WALL	DOORBELL PUSHBUTTON, MTD 42" AFF. 4" SQUARE BOX RECESSED; STUB 3/4" C TO 6" ABOVE ACCESSIBLE CEILING. CONNECT TO BELL LOCATED IN DISPATCH ROOM 105 WITH MANUFACTURER'S RECOMMENDED CABLE.



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ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID. NO. 102-25C
138 OLD SAND RIDGE RD, HUBERT, NC 28639

SEALS



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PM: ALEXANDRE PENEGRÉ
Drawn By: J. GRITTON
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BID DOCUMENTS
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SHEET TITLE
ELECTRICAL LEGENDS

E002



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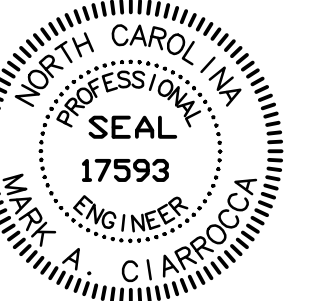
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JOB # 24012

**ONSLOW COUNTY BEAR
CREEK FIRE STATION**
ONSLOW COUNTY
BID. NO. 102-25C

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SEALS



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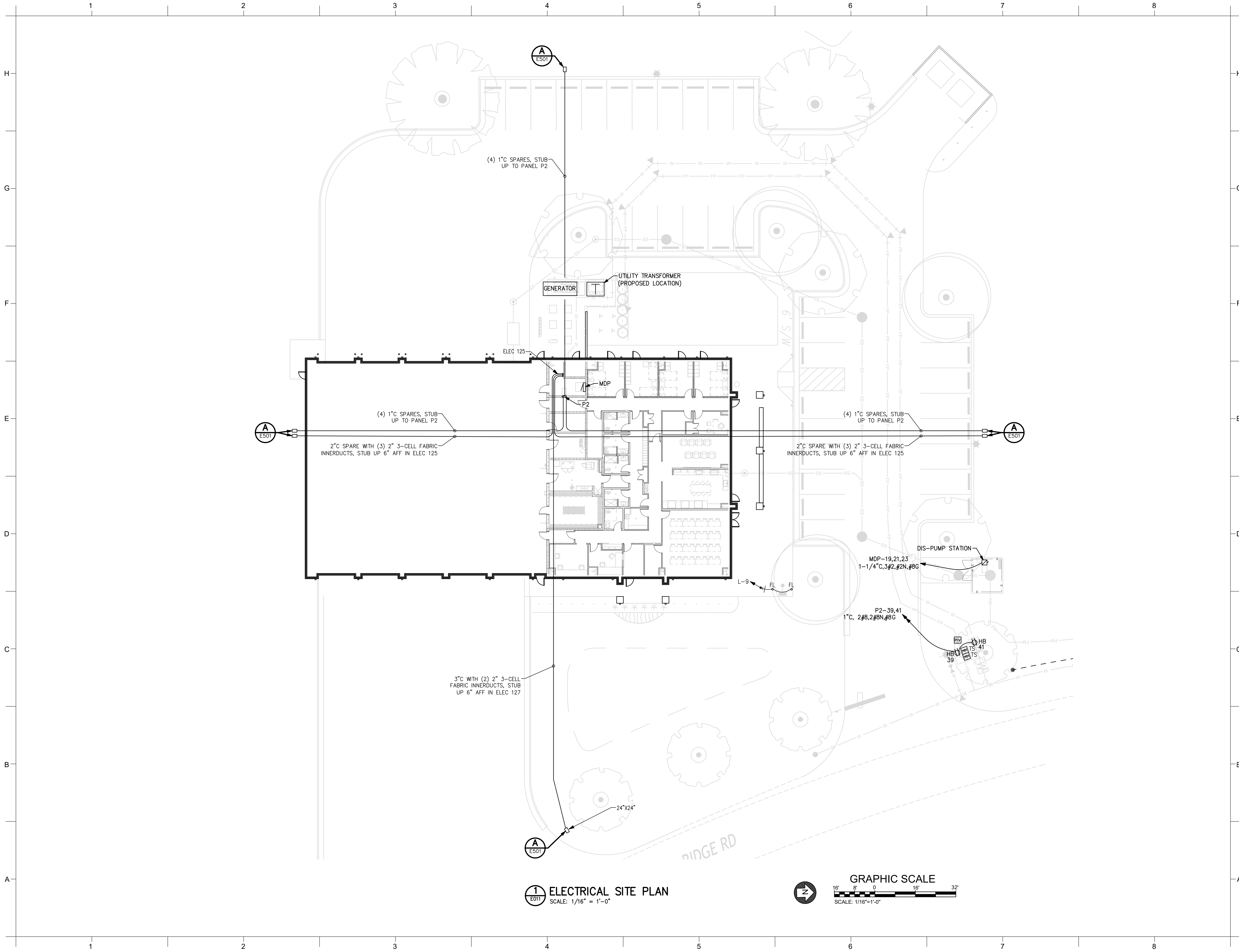
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SHEET TITLE
ELECTRICAL
SITE PLAN

E011



E011 ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'-0"





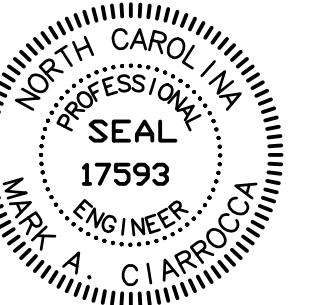
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Table with 2 columns: REVISIONS, and empty rows for revision details.

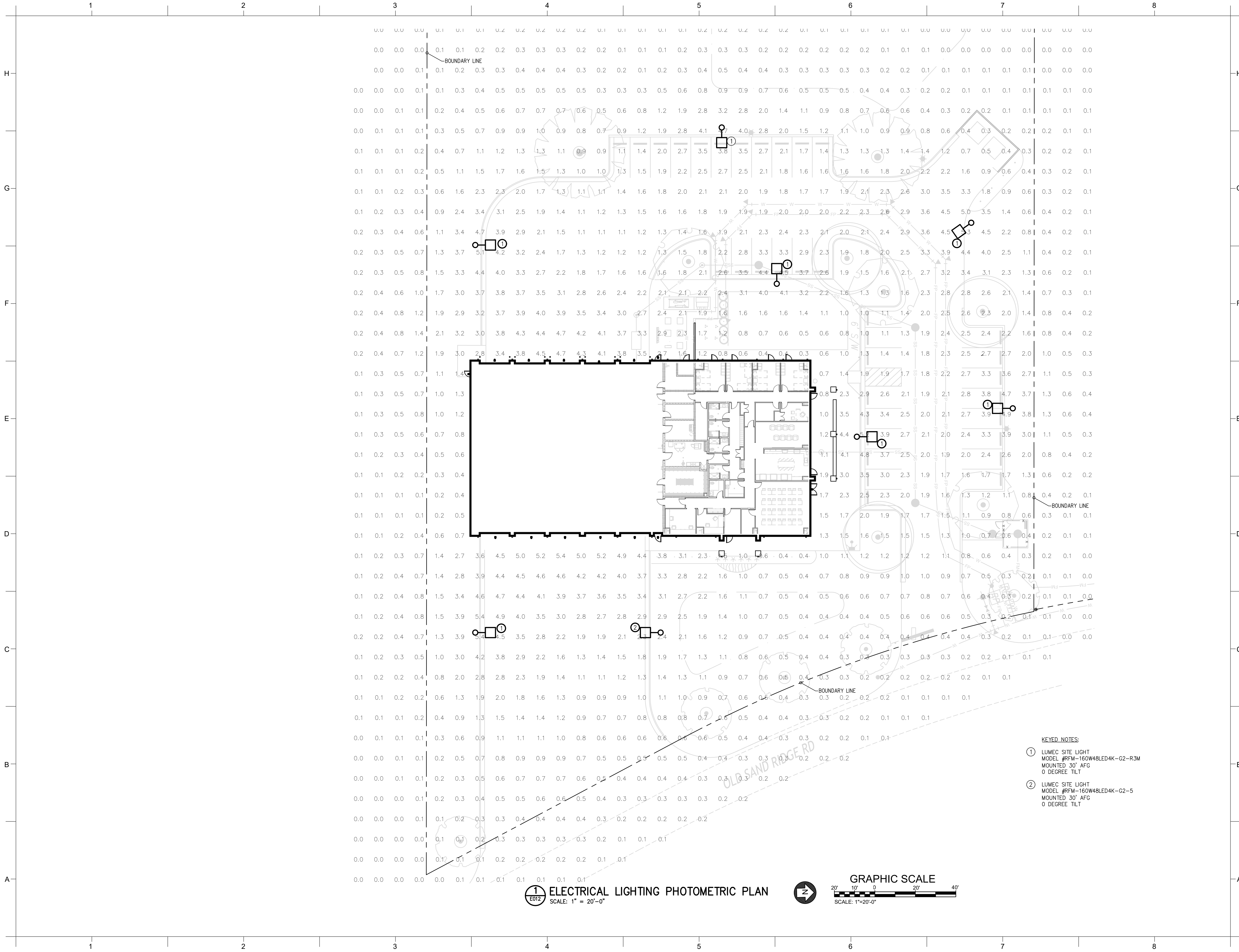
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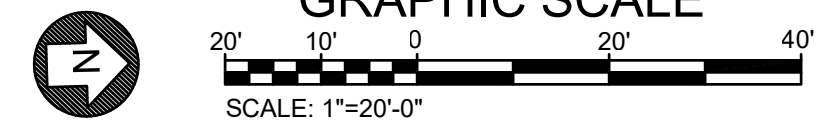
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SHEET TITLE
ELECTRICAL LIGHTING
PHOTOMETRIC PLAN

E012



E012 ELECTRICAL LIGHTING PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"



- KEYED NOTES:
- ① LUMEC SITE LIGHT
MODEL #RFM-160W48LED4K-G2-R3M
MOUNTED 30' AFG
0 DEGREE TILT
 - ② LUMEC SITE LIGHT
MODEL #RFM-160W48LED4K-G2-5
MOUNTED 30' AFG
0 DEGREE TILT

EXTERIOR HVAC UNITS EQUIPMENT SCHEDULE

CALLOUT	VOLTS AND PHASE	CIRCUIT	WIRE CALLOUT
DHP-1	208V 1-PH 2W	M1-32,34	3/4"C,2#10,#10G
HP-1	208V 3-PH 3W	M1-2,4,6	3/4"C,3#6,#10G
HP-2	208V 3-PH 3W	M1-8,10,12	3/4"C,3#6,#10G
HP-3	208V 1-PH 2W	M1-14,16	3/4"C,2#10,#10G
HP-4	208V 1-PH 2W	M1-18,20	3/4"C,2#10,#10G
HP-5	208V 3-PH 3W	M1-22,24,26	3/4"C,3#6,#12G

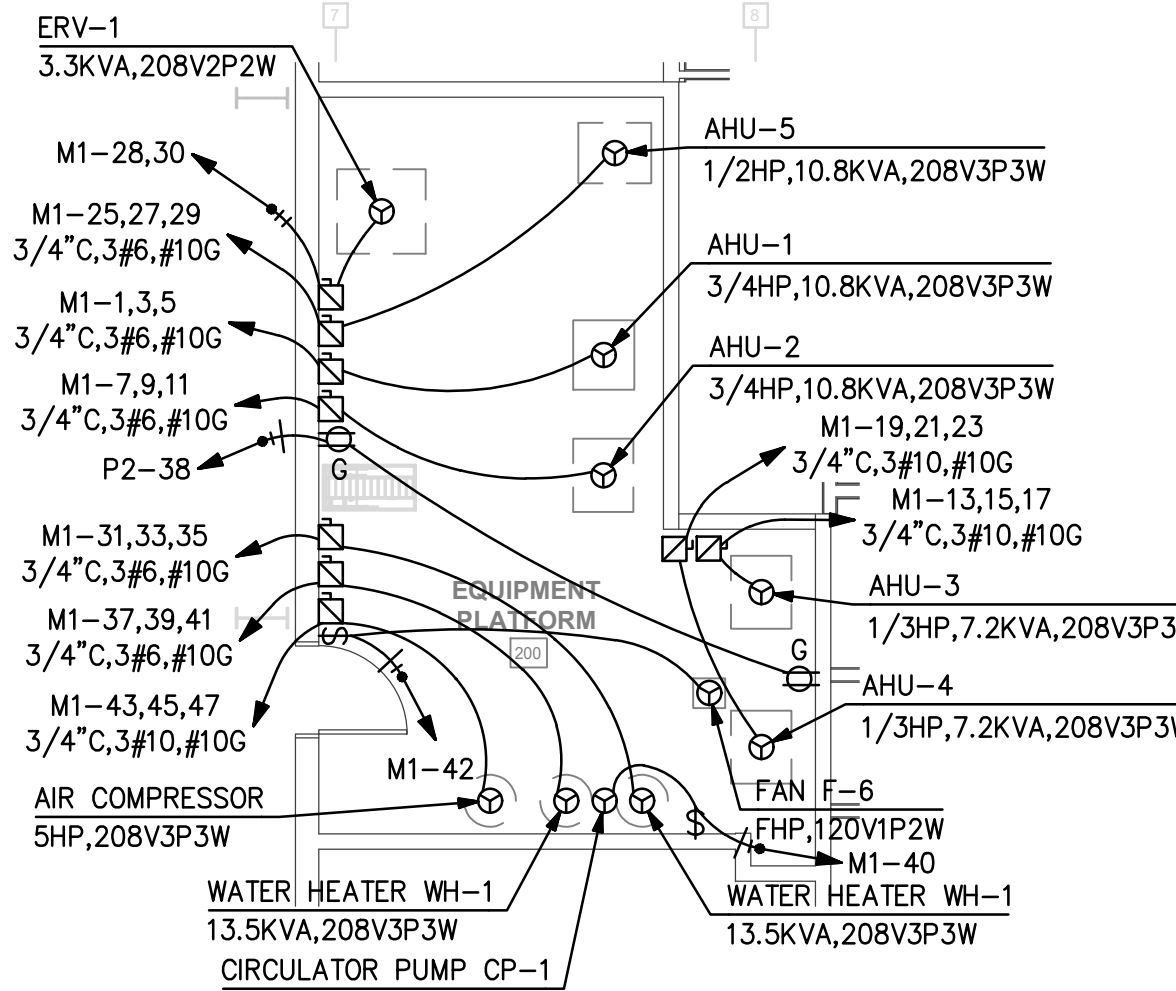
APPARATUS BAY EQUIPMENT SCHEDULE

CALLOUT	VOLTS AND PHASE	CIRCUIT	WIRE CALLOUT
FAN F-1	208V 3-PH 3W	M2-1,3,5	3/4"C,3#12,#12G
FAN F-2	208V 3-PH 3W	M2-2,4,6	3/4"C,3#12,#12G
FAN F-3	208V 3-PH 3W	M2-7,9,11	3/4"C,3#12,#12G
FAN F-4	208V 3-PH 3W	M2-8,10,12	3/4"C,3#12,#12G
FOLDING DOOR	208V 3-PH 4W	P1-2,4,6	3/4"C,3#12,#12N,#12G
FOLDING DOOR	208V 3-PH 4W	P1-8,10,12	3/4"C,3#12,#12N,#12G
FOLDING DOOR	208V 3-PH 4W	P1-26,28,30	3/4"C,3#12,#12N,#12G
FOLDING DOOR	208V 3-PH 4W	P1-20,22,24	3/4"C,3#12,#12N,#12G
FOLDING DOOR	208V 3-PH 4W	P1-14,16,18	3/4"C,3#12,#12N,#12G
FOLDING DOOR	208V 3-PH 4W	P1-1,3,5	3/4"C,3#12,#12N,#12G
FOLDING DOOR	208V 3-PH 4W	P1-7,9,11	3/4"C,3#12,#12N,#12G
FOLDING DOOR	208V 3-PH 4W	P1-13,15,17	3/4"C,3#12,#12N,#12G
FOLDING DOOR	208V 3-PH 4W	P1-19,21,23	3/4"C,3#12,#12N,#12G
FOLDING DOOR	208V 3-PH 4W	P1-25,27,29	3/4"C,3#12,#12N,#12G
OIL SEPARATOR HIGH LEVEL ALARM PANEL	120V 1-PH 2W	P1-40	3/4"C,1#12,#12N,#12G
UH-1	208V 3-PH 3W	M2-13,15,17	3/4"C,3#10,#10G
UH-2	208V 3-PH 3W	M2-14,16,18	3/4"C,3#10,#10G
UH-3	208V 3-PH 3W	M2-19,21,23	3/4"C,3#10,#10G
UH-4	208V 3-PH 3W	M2-20,22,24	3/4"C,3#10,#10G
UH-5	208V 3-PH 3W	M2-25,27,29	3/4"C,3#10,#10G
UH-6	208V 3-PH 3W	M2-26,28,30	3/4"C,3#10,#10G

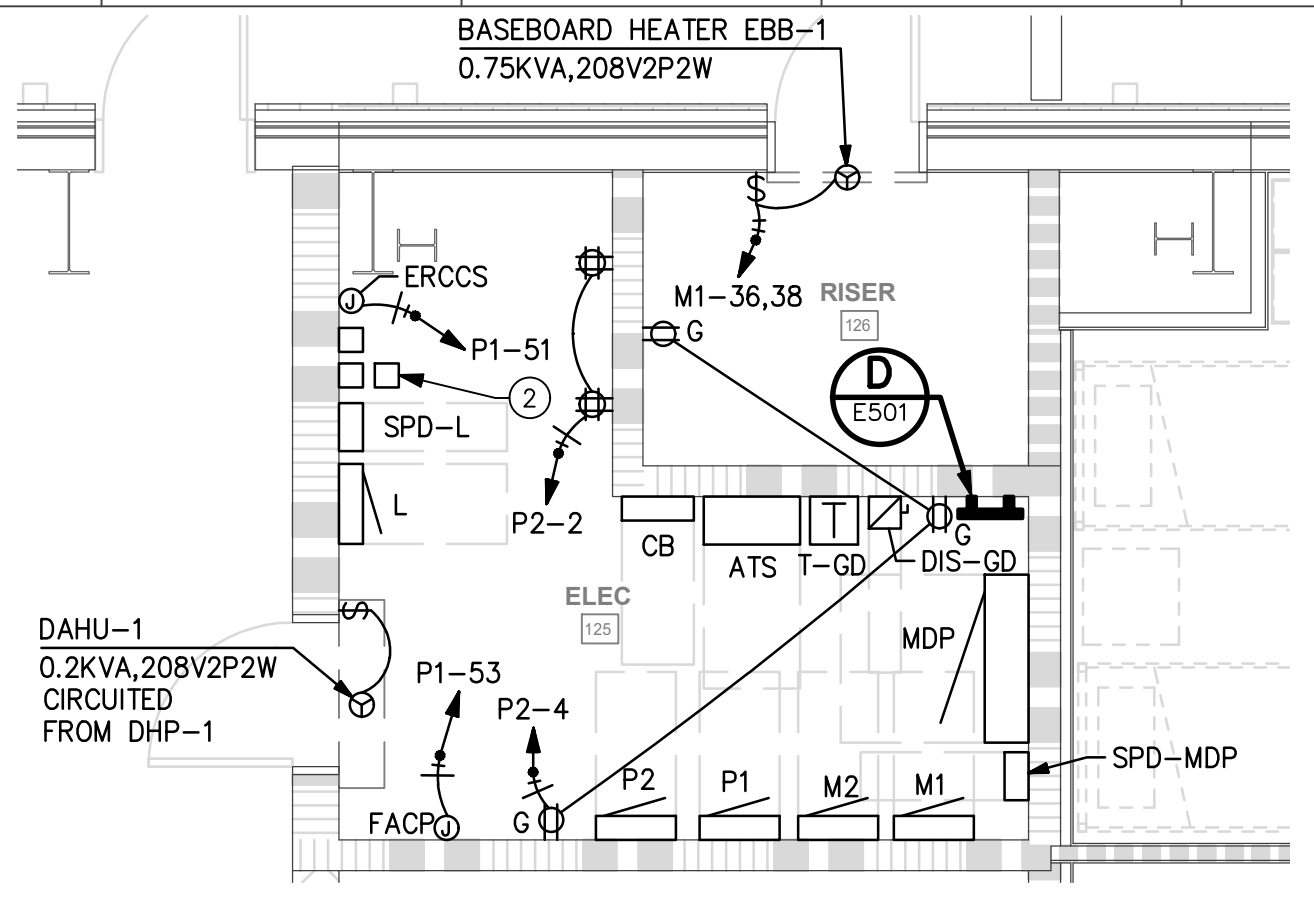
AIR SCRUBBER SCHEDULE EQUIPMENT SCHEDULE (ALTERNATE M-1)

CALLOUT	VOLTS AND PHASE	CIRCUIT	WIRE CALLOUT
AIR SCRUBBER AS-1	208V 1-PH 2W	M2-31,33	3/4"C,2#12,#12G
AIR SCRUBBER AS-2	208V 1-PH 2W	M2-32,34	3/4"C,2#12,#12G
AIR SCRUBBER AS-3	208V 1-PH 2W	M2-35,37	3/4"C,2#12,#12G
AIR SCRUBBER AS-4	208V 1-PH 2W	M2-36,38	3/4"C,2#12,#12G
AIR SCRUBBER AS-5	208V 1-PH 2W	M2-39,41	3/4"C,2#12,#12G
AIR SCRUBBER AS-6	208V 1-PH 2W	M2-40,42	3/4"C,2#12,#12G
AIR SCRUBBER AS-7	208V 1-PH 2W	M2-43,45	3/4"C,2#12,#12G
AIR SCRUBBER AS-8	208V 1-PH 2W	M2-44,46	3/4"C,2#12,#12G
AIR SCRUBBER AS-9	208V 1-PH 2W	M2-47,49	3/4"C,2#12,#12G
AIR SCRUBBER AS-10	208V 1-PH 2W	M2-48,50	3/4"C,2#12,#12G
AIR SCRUBBER CONTROL PANEL	120V 1-PH 2W	M2-51	3/4"C,1#12,#12N,#12G

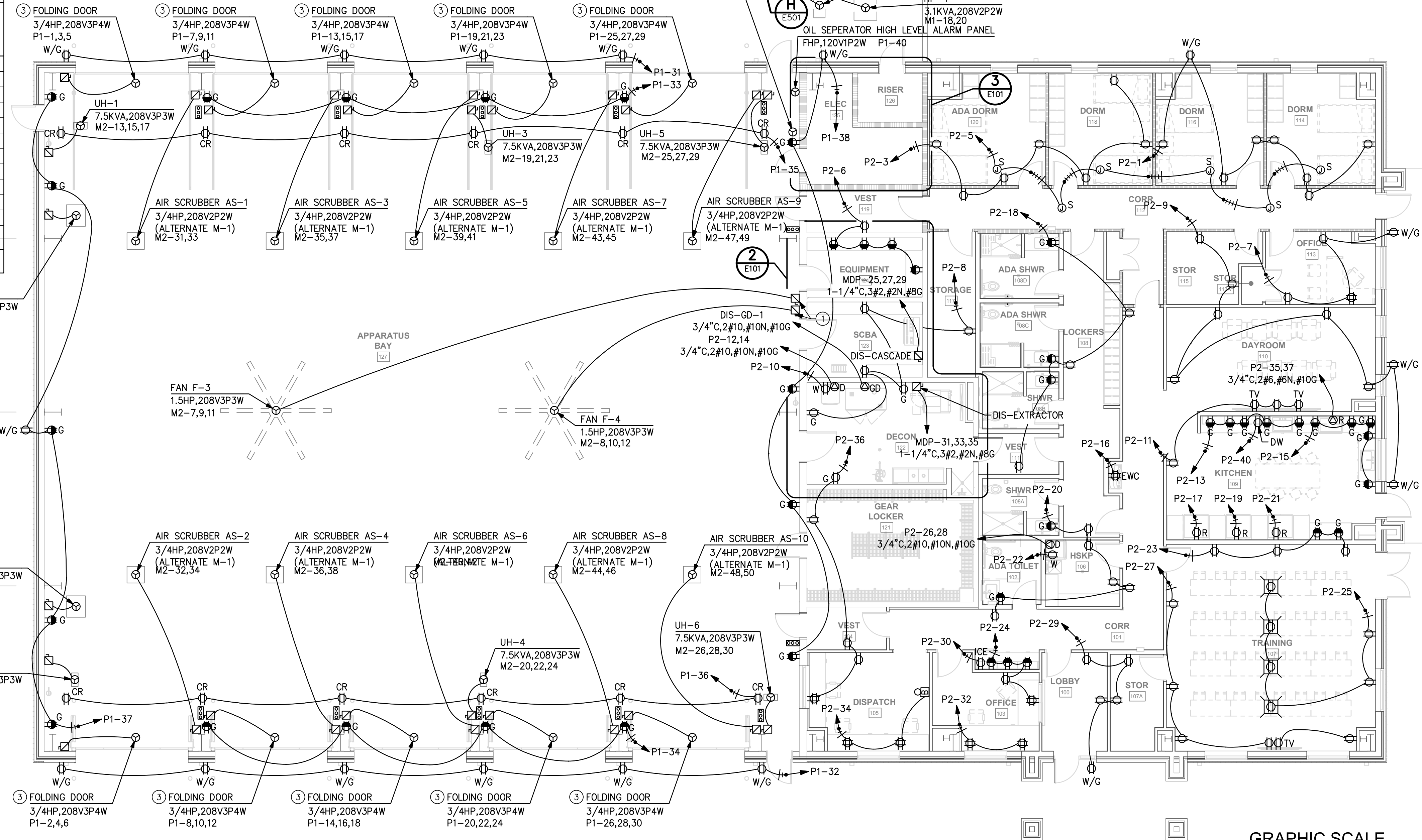
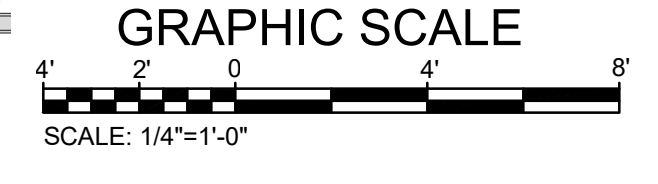
NOTE: INSTALL HOMERUN CIRCUITRY INDICATED IN WIRE CALLOUT COLUMN TO EQUIPMENT DISCONNECT INDICATED.



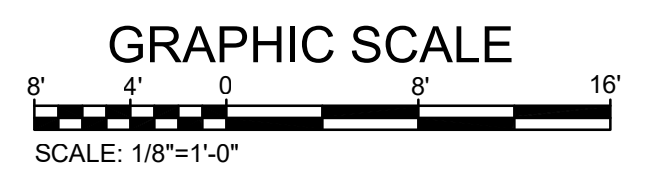
2 ELECTRICAL POWER PLAN - EQUIPMENT PLATFORM
SCALE: 1/8" = 1'-0"



3 ELECTRICAL ENLARGED POWER PLAN
SCALE: 1/4" = 1'-0"



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



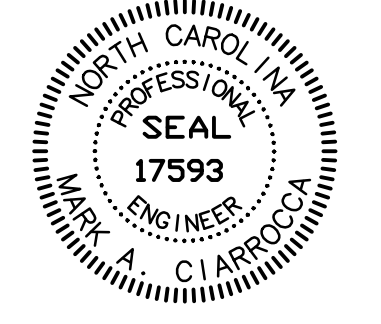
- KEYED NOTES:**
- COORDINATE SPEED CONTROL REQUIREMENTS WITH MANUFACTURER.
 - TIMECLOCK AND LIGHTING CONTACTORS.
 - REVIEW DOOR SPECIFICATIONS AND SUBMITTALS TO COORDINATE CIRCUITRY REQUIREMENTS WITH VENDOR FOR ASSOCIATED DOOR COMPONENTS.



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NC LICENSE# C-1073

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID. NO. 102-25C
138 OLD SAND RIDGE RD., HUBERT, NC 28639

SEALS



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Date: 2025.03.11 12:10:02-04'00'

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PM: ALEXANDRE PENEGRE
Drawn By: J. GRITTON
Plot Date: 1/27/2025

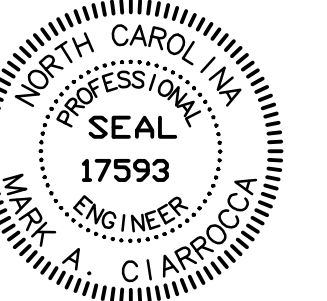
DATE ISSUED

BID DOCUMENTS
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SHEET TITLE
ELECTRICAL POWER PLANS

E101

SEALS



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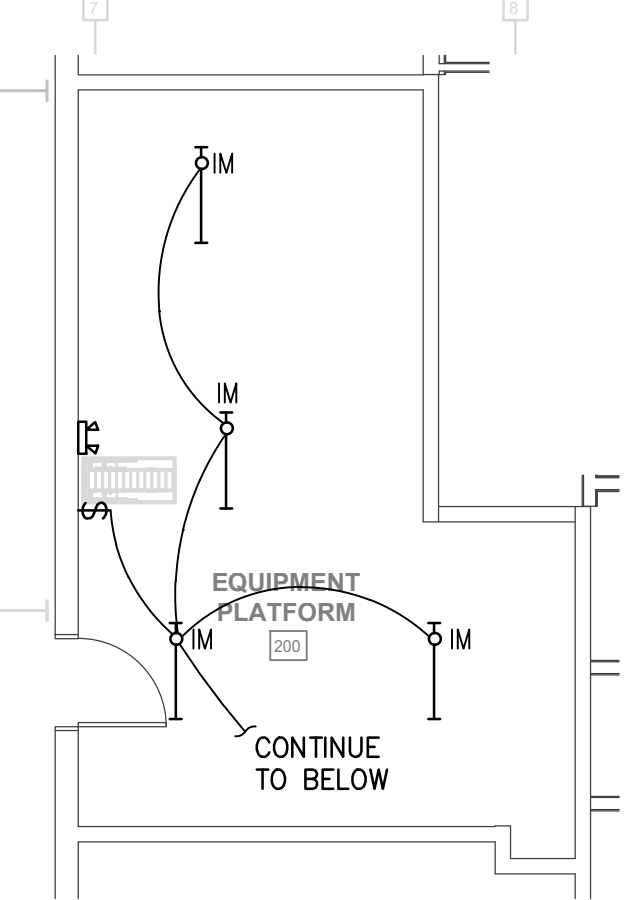
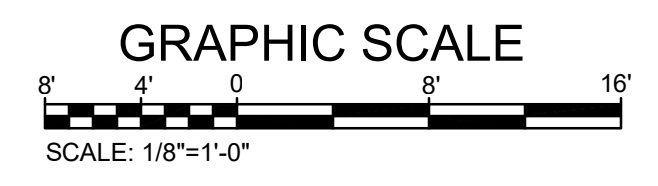
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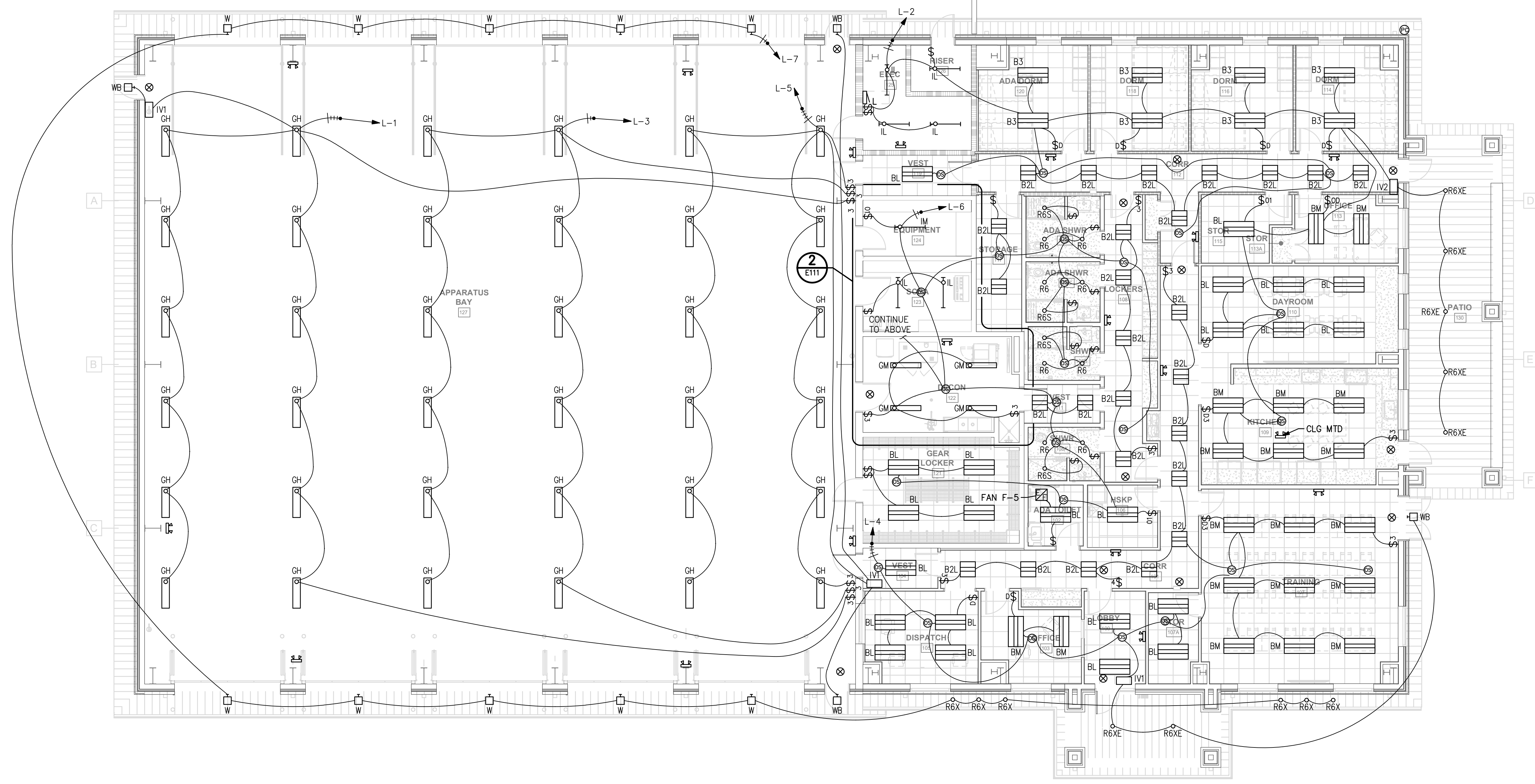
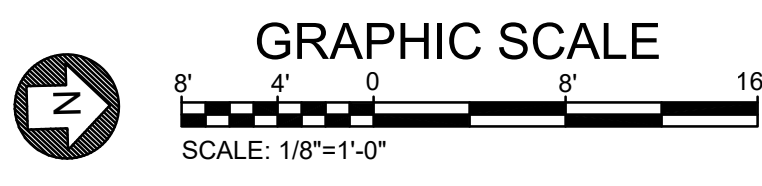
SHEET TITLE
ELECTRICAL LIGHTING PLANS

E111

2
E111
ELECTRICAL LIGHTING PLAN – EQUIPMENT PLATFORM
SCALE: 1/8" = 1'-0"



1
E111
ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"





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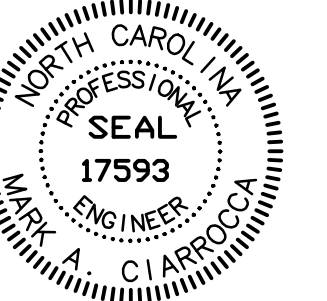
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**ONSLOW COUNTY BEAR
CREEK FIRE STATION**
ONSLOW COUNTY
BID. NO. 102-25C
138 OLD SAND RIDGE RD, HUBERT, NC 28639

SEALS



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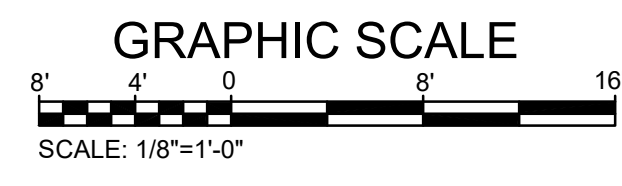
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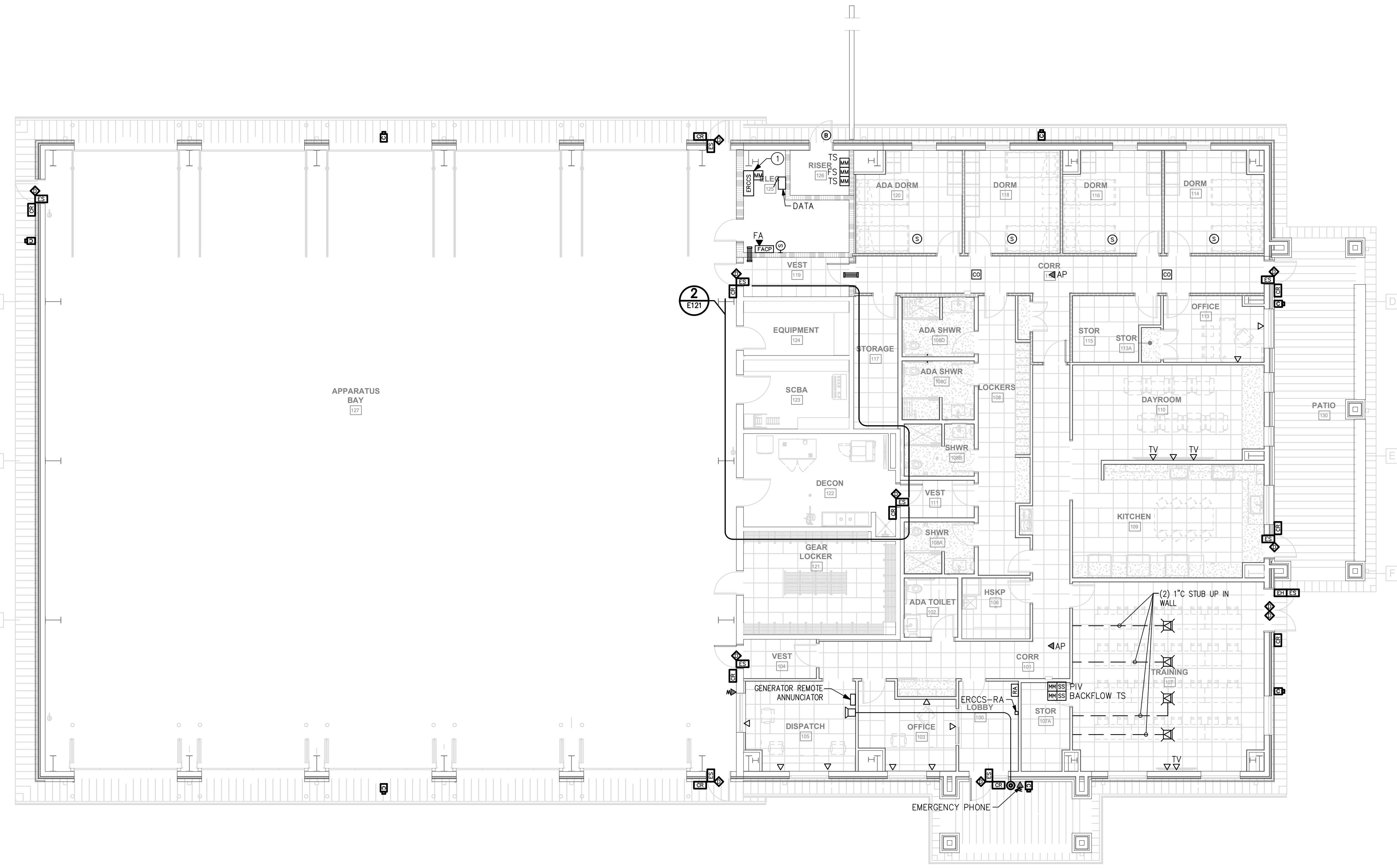
SHEET TITLE
ELECTRICAL
AUXILIARY
SYSTEMS PLANS

E121

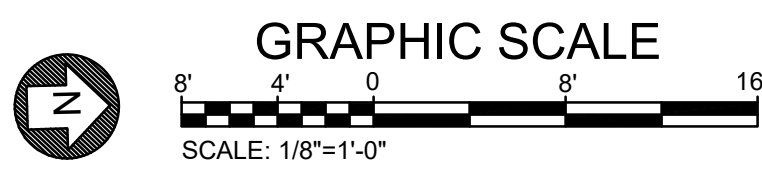
KEYED NOTES:
① (8) MONITOR MODULES FOR EMERGENCY RESPONDER COMMUNICATION COVERAGE SYSTEM



**② ELECTRICAL AUXILIARY SYSTEMS PLAN –
EQUIPMENT PLATFORM**
SCALE: 1/8" = 1'-0"

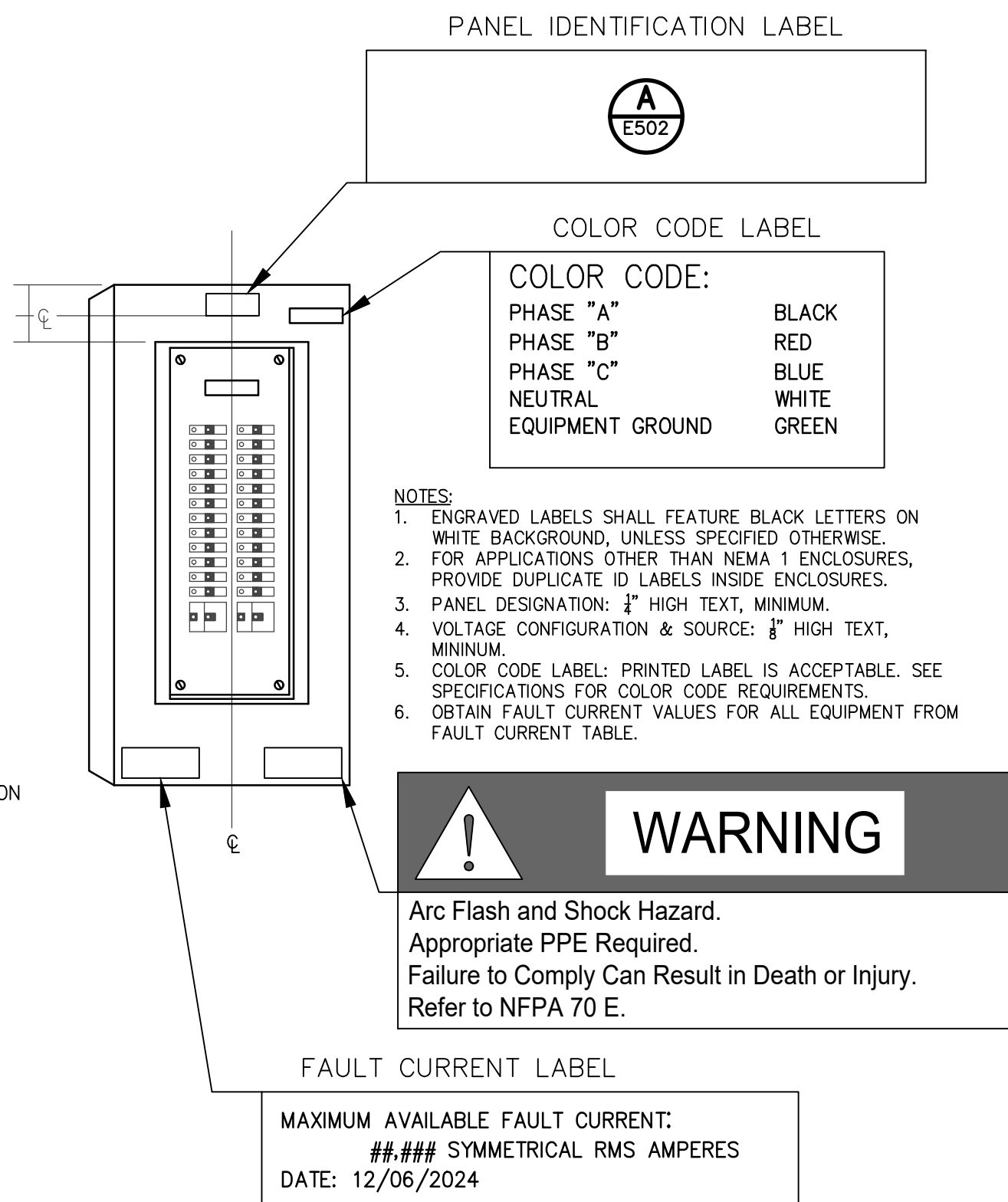
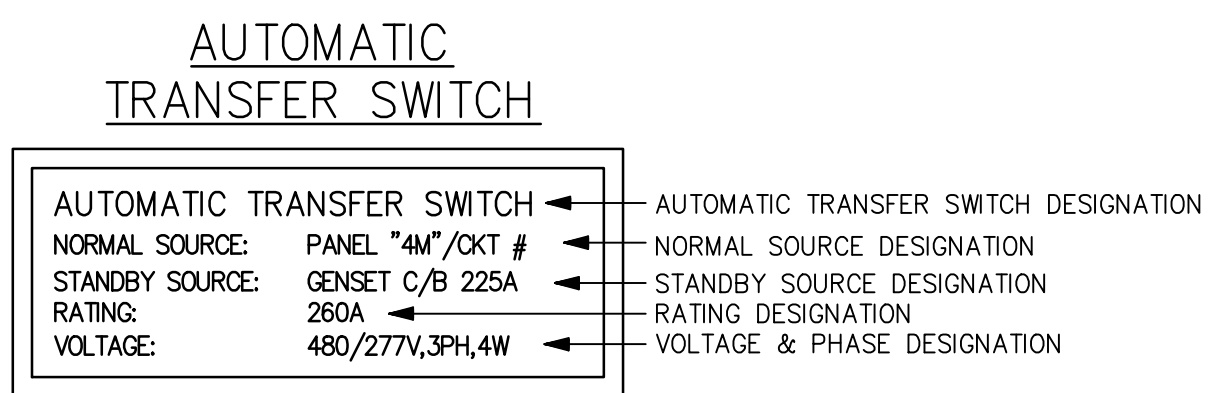
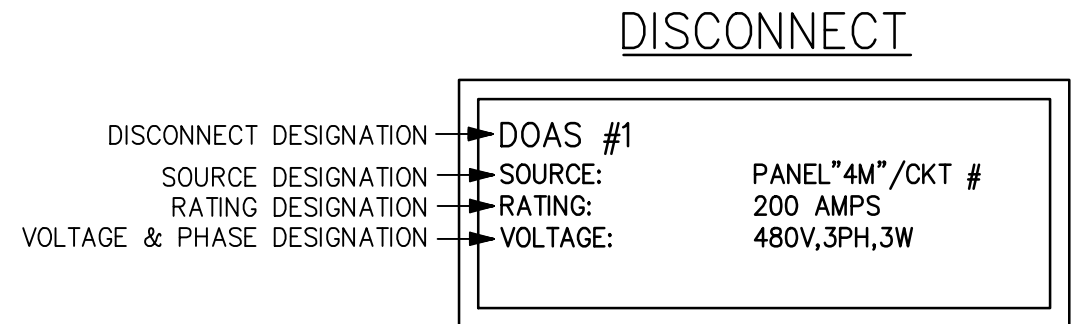
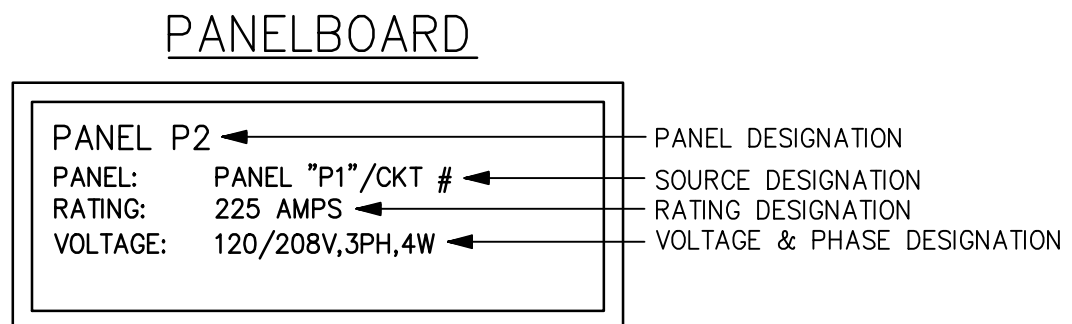
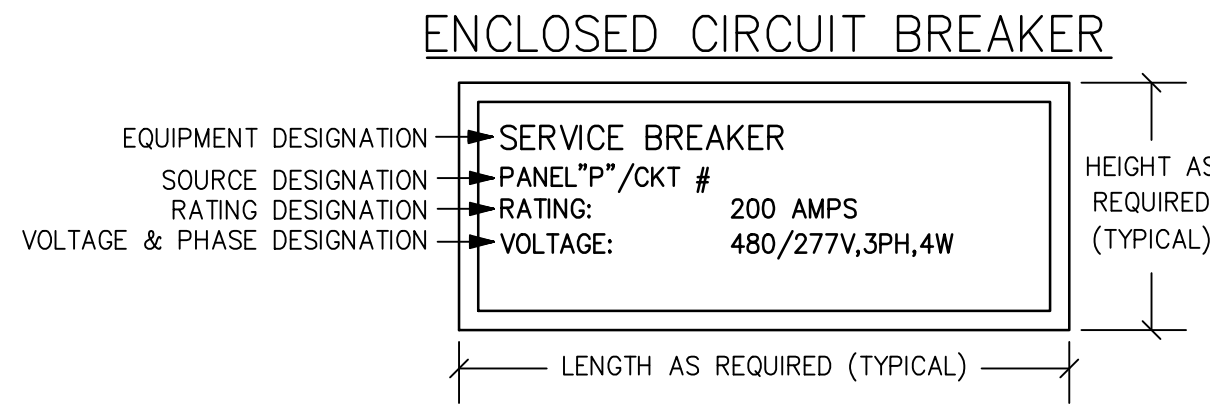
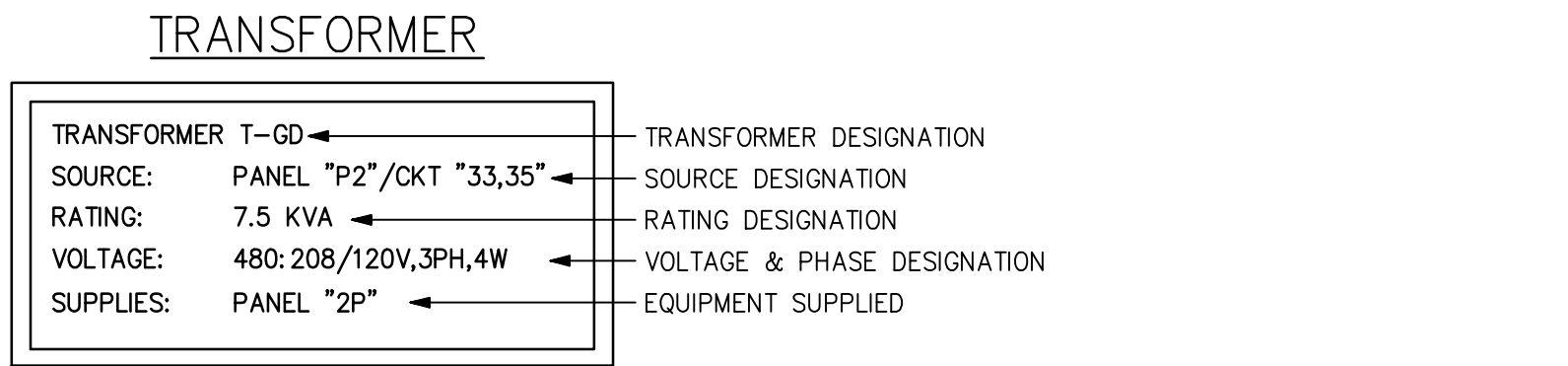


① ELECTRICAL AUXILIARY SYSTEMS PLAN
SCALE: 1/8" = 1'-0"



FAULT CURRENT SCHEDULE

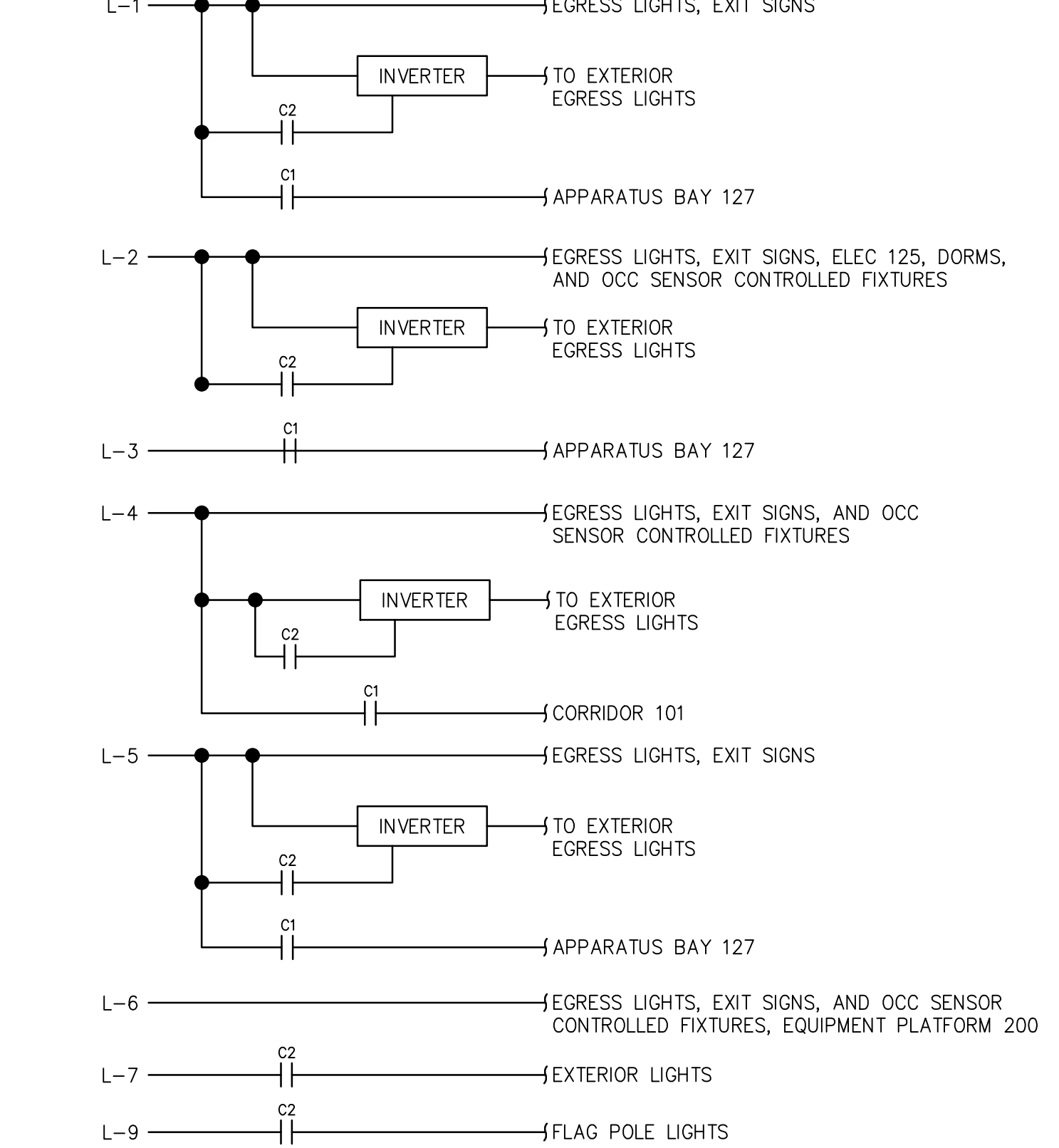
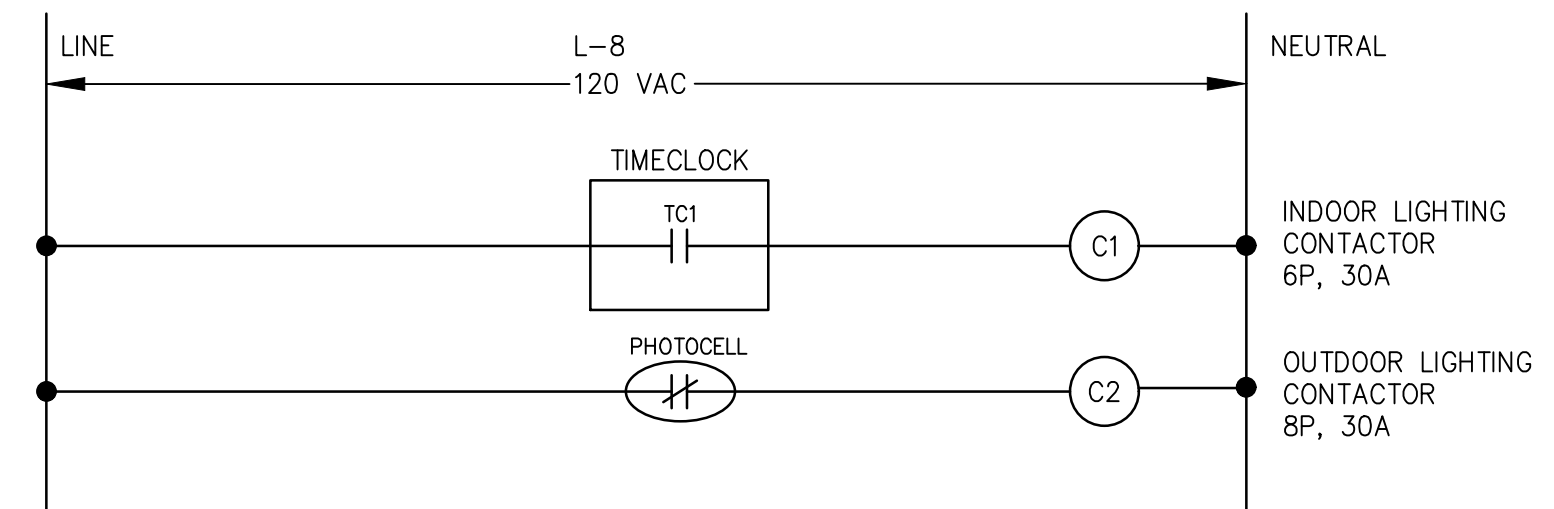
DEVICE	L-L FAULT
CB	20,452
ATS	19,622
MDP	18,401
DIS-CASCADE	10,446
DIS-EXTRACTOR	9,957
DIS-PUMP STATION	2,555
L	11,096
M1	16,737
M2	15,982
P1	15,656
P2	15,429
DIS-GD	1,404



NOTES:
1. ENGRAVED PLASTIC FOR NAMEPLATE.
2. HIGH PERFORMANCE, DOUBLE COATED TAPE WITH ADHESIVE TO ATTACH LABELS. DESIGN BASIS: 3M #06383 OR APPROVED EQUIVALENT.

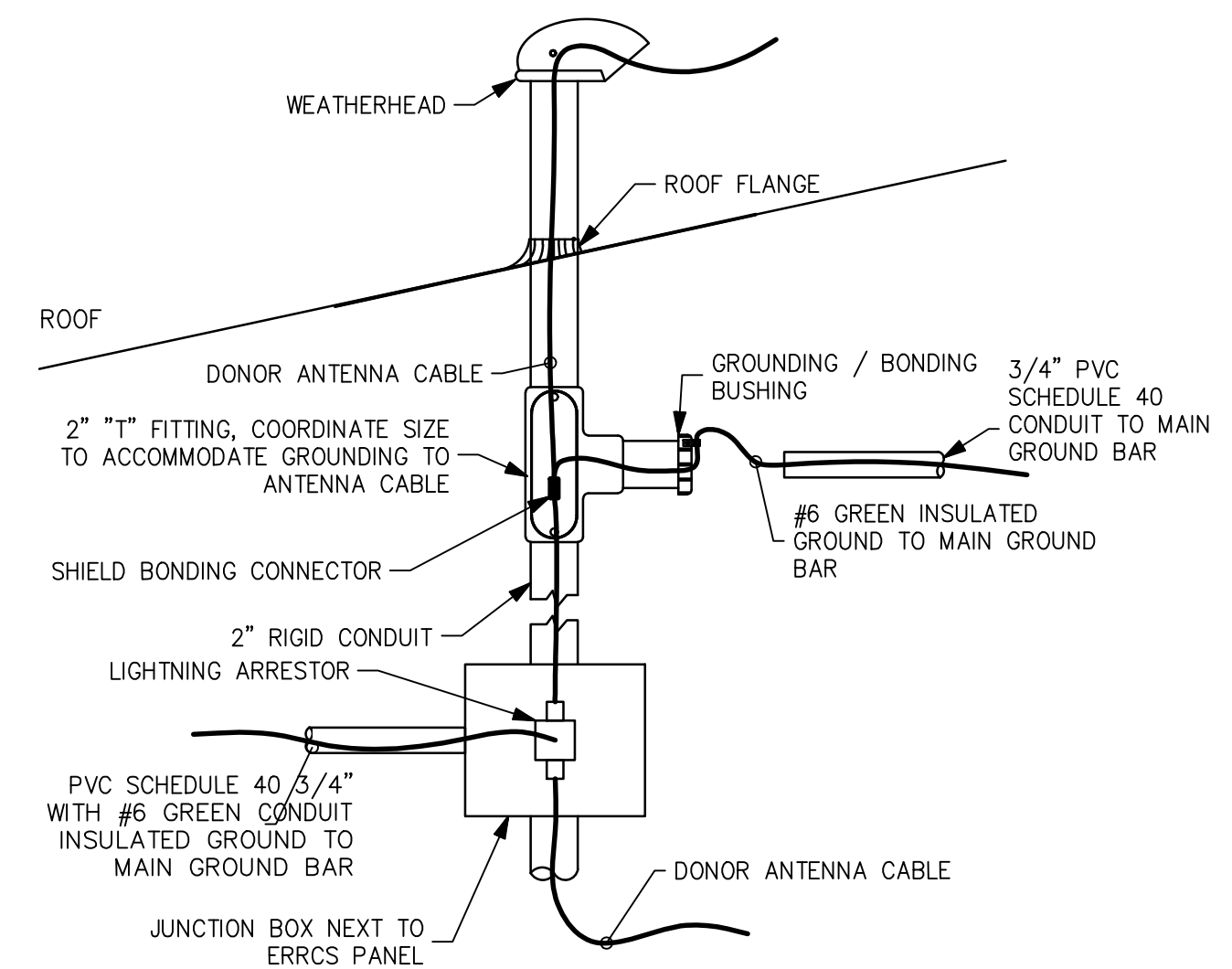
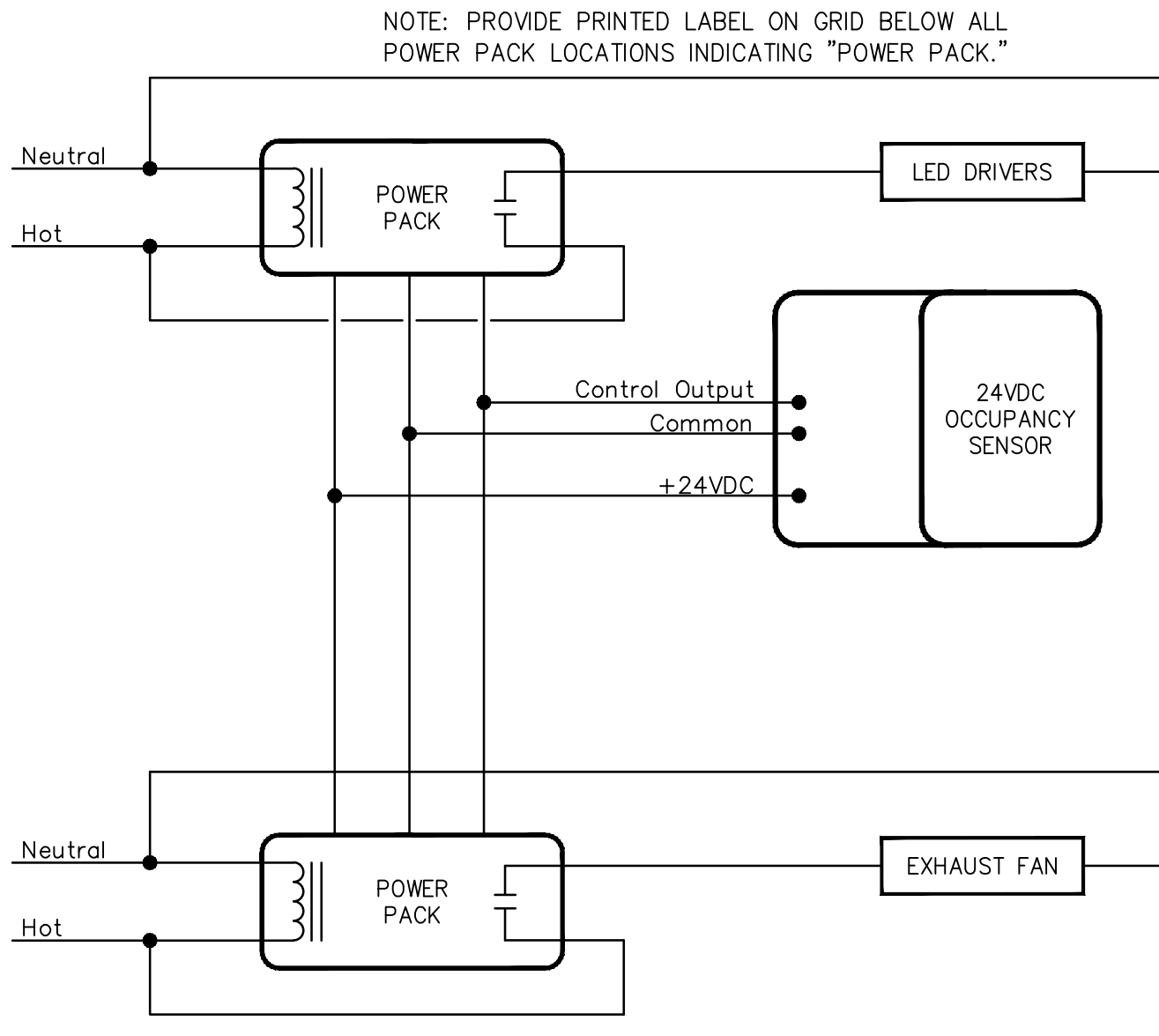
A TYPICAL NAMEPLATE DETAILS
NO SCALE

B TYPICAL PANELBOARD IDENTIFICATION
NO SCALE



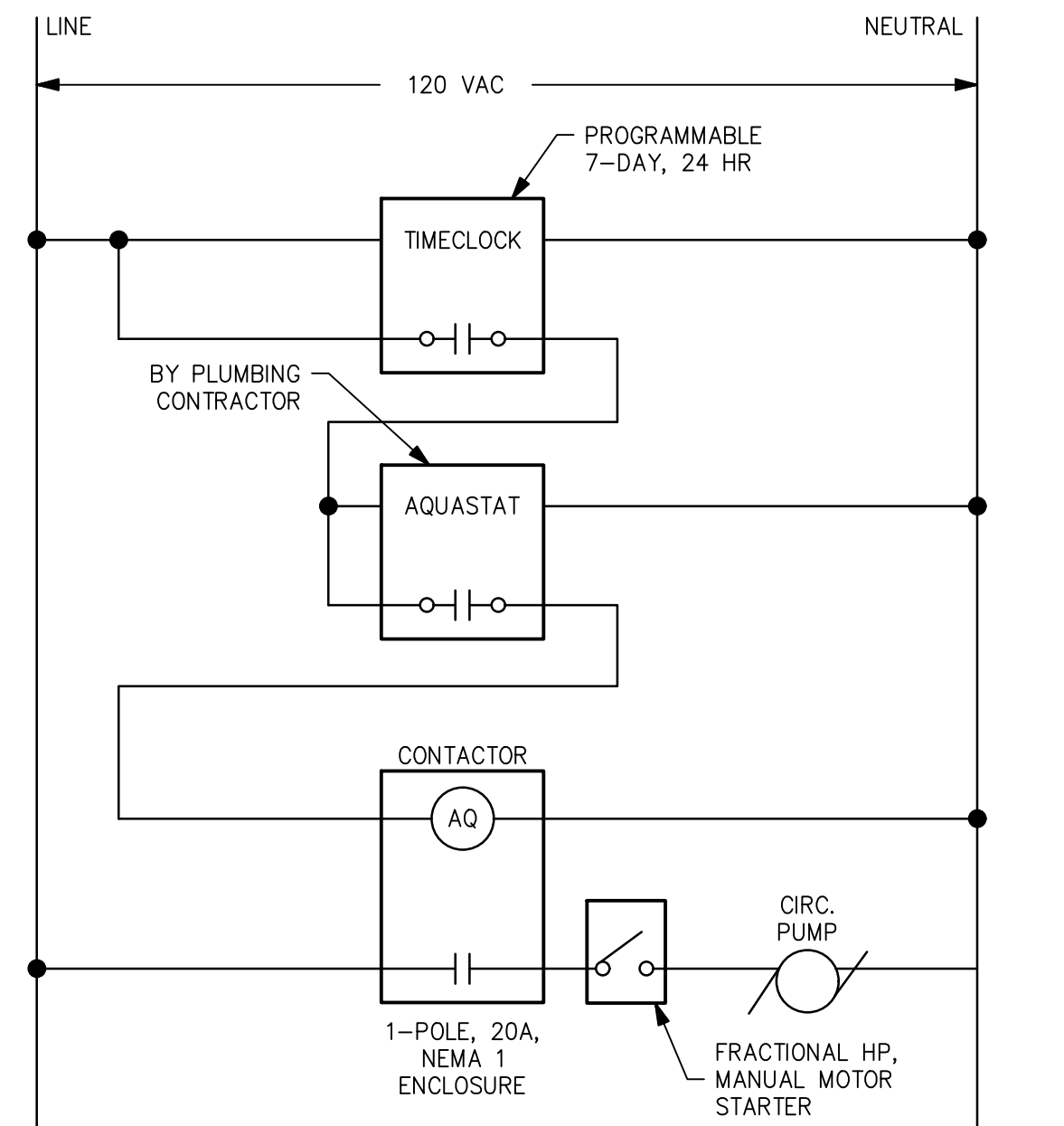
- AUTO MODE CONTROL SCHEME**
- INTERIOR LIGHTS THAT ARE NOT UNDER OCCUPANCY SENSOR CONTROL SHALL TURN ON/OFF VIA TIMECLOCK UNO.
 - EXTERIOR LIGHTS TURN ON/OFF VIA PHOTOCELL.
 - EXTERIOR EGRESS LIGHTS SHALL REMAIN ENERGIZED DURING POWER OUTAGES THROUGH THE INVERTERS AFTER DARK. THE SWITCHED INPUT TO THE INVERTER FROM THE CONTACTORS PREVENTS OPERATION OF THE INVERTER DURING DAYLIGHT.

F LIGHTING CONTROL SCHEMATIC
NO SCALE



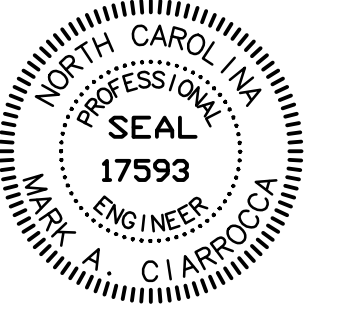
C OCCUPANCY SENSOR WIRING LIGHTING AND EXHAUST FAN CONTROL
NO SCALE

D ERRCS WEATHERHEAD DETAIL
NO SCALE



E CIRCULATION PUMP CONTROL SCHEMATIC
NO SCALE

SEALS



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SHEET TITLE
ELECTRICAL DETAILS

E502

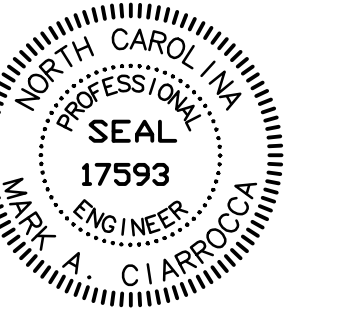


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ONSLOW COUNTY BEAR
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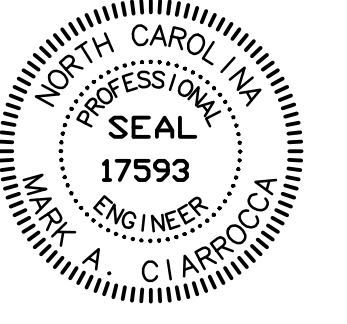
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SHEET TITLE
ELECTRICAL
LUMINAIRE SCHEDULE

E601

CALLOUT	SYMBOL	DESCRIPTION	LAMP	BALLAST	VOLTS	MOUNTING	MANUFACTURER / MODEL	NOTES	CALLOUT
B2L		2x2, ARCHITECTURAL LENSED, INDIRECT	(1) 32W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	COLUMBIA #L/CAT SERIES DAYBRITE #2EV SERIES METALUX #22CZ SERIES	3500 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SMOOTH, ROUND LENSE.	B2L
B3		2x4, ARCHITECTURAL LENSED, INDIRECT	(1) 40W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	COLUMBIA #L/CAT SERIES DAYBRITE #2EV SERIES METALUX #24CZ SERIES	4300 NOMINAL LUMENS. 3000K COLOR TEMPERATURE. SMOOTH, ROUND LENSE.	B3
BL		2x4, ARCHITECTURAL LENSED, INDIRECT	(1) 40W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	COLUMBIA #L/CAT SERIES DAYBRITE #2EV SERIES METALUX #24CZ SERIES	4300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SMOOTH, ROUND LENSE.	BL
BM		2x4, ARCHITECTURAL LENSED, INDIRECT	(1) 47W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	COLUMBIA #L/CAT SERIES DAYBRITE #2EV SERIES METALUX #24CZ SERIES	5300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SMOOTH, ROUND LENSE.	BM
EG		EMERGENCY EGRESS, BATTERY	(2) 7W MR 16 LED	BATTERY	120V 1P 2W	WALL; MTD 8'-0" AFF	EMERGLITE #COMPACT PREMIER SERIES CHLORIDE #TPU SERIES LIGHTALARMS #COMPACT GRANDE SERIES	CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "EG" ON THE DRAWINGS; ONLY THE SYMBOL IS USED. DESIGN CRITERIA: 70 FT SPACING, UTILIZING 6 FT WIDE PATH, 80/50/20 REFLECTANCES, MAINTAINING 1 FC AVG AND 0.2 FC MINIMUM.	EG
FL		FLAG LIGHT	(1) 20W LED	LED DRIVER	120V 1P 2W	GROUND, FLUSH TO GRADE	KIM LIGHTING #LTV83SS HADCO #SL-33LED SERIES LUMIERE #MONACO 3002 SERIES	MOUNTING DISTANCE FROM POLE - 2X TO 3X FLAG WIDTH. NARROW FLOOD; ADJUSTABLE AIMING; 4000K COLOR TEMPERATURE; 1000 NOMINAL LUMENS MINIMUM; ROCK GUARD.	FL
GH		4' GASKETED	(1) 92W LED	LED DRIVER	120V 1P 2W	PENDANT/JOIST; MTD 17' AFG	COLUMBIA #L/XEM SERIES LUMAX #VMBTLED SERIES WILLIAMS #96 SERIES	10,000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. COORDINATE LOCATION & HEIGHT TO MINIMIZE INTERFERENCES WITH UNIT HEATERS AND CORD REELS.	GH
GM		4' GASKETED	(1) 47W LED	LED DRIVER	120V 1P 2W	PENDANT/SURFACE; MTD 9' AFF	WILLIAMS #96 SERIES ILP #VVT SERIES METALUX #4VT SERIES	5100 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. STAINLESS STEEL MOUNTING HARDWARE & LENS CLAMPS.	GM
IL		4' INDUSTRIAL	(1) 30W LED	LED DRIVER	120V 1P 2W	PENDANT/SURFACE; MTD 10' AFF	COLUMBIA #L/CL SERIES DAYBRITE #FSS SERIES METALUX #SNLED SERIES	3700 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD. FROSTED LENS.	IL
IM		4' INDUSTRIAL	(1) 44W LED	LED DRIVER	120V 1P 2W	PENDANT/SURFACE; MTD 10' AFF	COLUMBIA #L/CL SERIES DAYBRITE #FSS SERIES METALUX #SNLED SERIES	5300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD. FROSTED LENS.	IM
IV1		INVERTER, EGRESS LIGHTING	N/A	BATTERY	120V 1P 2W	SURFACE	EMERGI-LITE #EMIU SERIES BODINE #ELI-S SERIES LIGHTALARMS #LMIU SERIES	INVERTER FOR BATTERY BACKUP OF EGRESS LIGHTING; 100W FOR 90 MINUTES (MINIMUM). INCLUDE SELF-DIAGNOSTIC OPTION. LOCATE ABOVE CEILING WHERE APPLICABLE - PROVIDE "LIGHTING INVERTER" LABEL ON CEILING GRID BELOW INSTALLED LOCATION. STANDARD LIGHTING CONTROL OVERRIDE FOR 0-10V DIMMING SYSTEM.	IV1
IV2		INVERTER, EGRESS LIGHTING	N/A	BATTERY	120V 1P 2W	SURFACE	EMERGI-LITE #EMIU SERIES BODINE #ELI-S SERIES LIGHTALARMS #LMIU SERIES	INVERTER FOR BATTERY BACKUP OF EGRESS LIGHTING; 250W FOR 90 MINUTES (MINIMUM). INCLUDE SELF-DIAGNOSTIC OPTION. LOCATE ABOVE CEILING WHERE APPLICABLE - PROVIDE "LIGHTING INVERTER" LABEL ON CEILING GRID BELOW INSTALLED LOCATION. STANDARD LIGHTING CONTROL OVERRIDE FOR 0-10V DIMMING SYSTEM.	IV2
R6		6" RECESSED CAN	(1) 20W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	PRESCOLITE #LF6LED SERIES LIGHTOLIER #Z6RDL SERIES PORTFOLIO #LD6B SERIES	2000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SELF-FLANGED LENSED REFLECTOR TRIM; LOW IRIDESCENT CLEAR FINISH.	R6
R6S		6" RECESSED CAN, SHOWER LIGHT	(1) 12W LED	LED DRIVER	120V 1P 2W	RECESSED	PRESCOLITE #LF6LED SERIES LIGHTOLIER #L6R SERIES PORTFOLIO #LD6B SERIES	WET LOCATION LISTED. 1000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SELF-FLANGED LENSED REFLECTOR TRIM; LOW IRIDESCENT CLEAR FINISH.	R6S
R6X		6" RECESSED CAN, EXTERIOR	(1) 18W LED	LED DRIVER	120V 1P 2W	RECESSED	PHILIPS LIGHTOLIER #L6R SERIES PORTFOLIO #LD6B SERIES LITON #CH6 SERIES	DAMP LOCATION, 2000 NOMINAL LUMENS. 4000K COLOR TEMP; SELF-FLANGED OPEN REFLECTOR TRIM, LOW IRIDESCENT CLEAR FINISH. IC RATED, AIRTIGHT CONSTRUCTION, GASKET BETWEEN FIXTURE & SOFFIT; SEE SPECIFICATIONS FOR ENERGY CODE REQUIREMENTS.	R6X
R6XE		6" RECESSED CAN, EXTERIOR, EGRESS	(1) 18W LED	LED DRIVER	120V 1P 2W	RECESSED	PHILIPS LIGHTOLIER #L6R SERIES PORTFOLIO #LD6B SERIES LITON #CH6 SERIES	DAMP LOCATION, 2000 NOMINAL LUMENS. 4000K COLOR TEMP; SELF-FLANGED OPEN REFLECTOR TRIM, LOW IRIDESCENT CLEAR FINISH. IC RATED, AIRTIGHT CONSTRUCTION, GASKET BETWEEN FIXTURE & SOFFIT; SEE SPECIFICATIONS FOR ENERGY CODE REQUIREMENTS.	R6XE
W		HALF CYLINDER WALL PACK	(1) 30W LED	LED DRIVER	120V 1P 2W	WALL; MTD 17' AFG	HUBBELL #RD12 SERIES GARDCO #104L SERIES MCGRAW-EDISON #SC SERIES	3100 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV DISTRIBUTION. FINISH SELECTION BY ARCHITECT.	W
WB		HALF CYLINDER WALL PACK, EGRESS	(1) 20W LED (1) 20W LED	LED DRIVER LED DRIVER	120V 1P 2W	WALL MTD, COORDINATE MTG HEIGHT WITH ARCHITECT	HUBBELL #RD12 SERIES TECH D #T650L SERIES	5300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV DISTRIBUTION. DUAL LED DRIVERS AND DUAL LED ARRAYS FOR EGRESS REQUIREMENTS. DOWNLIGHT ONLY. FINISH SELECTION BY ARCHITECT.	WB
X		EXIT SIGN, BATTERY BACKUP	(2) 1W LED	BATTERY	120V 1P 2W	UNIVERSAL	EMERGLITE #PREMIER SERIES CHLORIDE #TPE SERIES LIGHTALARMS #GRANDE SERIES	CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "X" ON THE DRAWINGS; ONLY THE SYMBOL IS USED.	X

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BID DOCUMENTS
03/12/2025

SHEET TITLE
ELECTRICAL
PANEL SCHEDULES

E602

MDP											
ROOM: ELEC 125			VOLTS: 208Y/120V 3P 4W			AIC: 22,000					
MOUNTING: SURFACE			BUS AMPS: 800			MAIN BKR: MLO					
FED FROM: ATS			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	225/3	PANEL M2	24.1	22.6		2	225/3	PANEL P1	8.39	7.97	
3						4					9.09
5						6					
7	400/3	PANEL M1	39.9	39.7	22.5	8	225/3	PANEL P2	20.9	18.2	
9						10					17.5
11						12					
13	100/3	PANEL L	3.43			14	60/3	SPD-MDP	0	0	
15				1.2		16					0
17					2.8	18					0
19	100/3	DIS-PUMP STATION	4.08	4.08		20	-/3	SPACE	0	0	
21						22					0
23					4.08	24					0
25	100/3	FUSED DISCONNECT	4.07			26	-/3	SPACE	0	0	
27		DIS-CASCADE		4.07		28					0
29					4.07	30					0
31	100/3	FUSED DISCONNECT	3.6			32	-/3	SPACE	0	0	
33		DIS-EXTRACTOR		3.6		34					0
35					3.6	36					0
37	-/3	SPACE	0	0		38	-/3	SPACE	0	0	
39						40					0
41					0	42					0
TOTAL CONNECTED KVA BY PHASE									108	101	102
TOTAL CONNECTED AMPS BY PHASE									903	845	847
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			7.2	9	(125%)	CONTINUOUS			3	3.75	(125%)
LARGEST MOTOR			6.48	1.62	(25%)	NONCONTINUOUS			55.5	55.5	(100%)
MOTORS			51	51	(100%)	HEATING			135	135	(100%)
RECEPTACLES			29.2	19.6	(50%>10)	COOLING			36.6	0	(0%)
KITCHEN EQUIPMENT			8	8	(100%)	DIVERSE			22.1	0	(0%)
TOTAL LOAD									284		
BALANCED 3-PHASE LOAD									788 A		

M1											
ROOM: ELEC 125			VOLTS: 208Y/120V 3P 4W			AIC: 18,000					
MOUNTING: SURFACE			BUS AMPS: 400			MAIN BKR: MLO					
FED FROM: MDP			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	45/3	AHU-1	4.04	4.04		2	30/3	HP-1	2.16	2.16	
3					4.04	4					2.16
5						6					
7	45/3	AHU-2	4.04			8	30/3	HP-2	2.16	2.16	
9				4.04		10					2.16
11					4.04	12					
13	30/3	AHU-3	2.69	2.69		14	25/2	HP-3	1.55	1.55	
15						16					1.55
17					2.69	18	25/2	HP-4	1.55	1.57	
19	30/3	AHU-4	2.69	2.69		20	20/3	HP-5	1.55	1.57	
21					2.69	22					1.57
23						24					
25	45/3	AHU-5	3.9	3.9		26	20/2	ERV-1	1.57	1.65	
27						28	20/2	ERV-1	1.57	1.65	
29					3.9	30					1.65
31	50/3	WATER HEATER WH-1	4.5	4.5		32	25/2	DAHU-1, DHP-1	2.08	2.08	
33						34					0.375
35					4.5	36	15/2	BASEBOARD HEATER EBB-1	0.375	0.1	
37	50/3	WATER HEATER WH-1	4.5			38					0.1
39				4.5		40	15/1	CIRCULATOR PUMP CP-1			0.1
41					4.5	42	15/1	FAN F-6			
43	25/3	AIR COMPRESSOR	2.11	2.11		44	-/3	SPACE	0	0	
45						46					0
47					2.11	48	-/3	SPACE	0	0	
49	-/3	SPACE	0	0		50					0
51					0	52					0
53					0	54					0
TOTAL CONNECTED KVA BY PHASE									39.9	39.7	38
TOTAL CONNECTED AMPS BY PHASE									332	331	317
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LARGEST MOTOR			6.48	1.62	(25%)	NONCONTINUOUS			27	27	(100%)
MOTORS			0.2	0.2	(100%)	HEATING			90.5	90.5	(100%)
TOTAL LOAD									119		
BALANCED 3-PHASE LOAD									331 A		

L											
ROOM: ELEC 125			VOLTS: 208Y/120V 3P 4W			AIC: 14,000					
MOUNTING: SURFACE			BUS AMPS: 100			MAIN BKR: MLO					
FED FROM: MDP			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	BAY LTG, EGRESS, EXIT, INVERTER, LTG-WALLPACK	1.24			2	20/1	(*) EGRESS, EXIT, INVERTER, LTG	1.65		
3	20/1	BAY LTG		1.16		4	20/1			0	1.51
5	20/1	BAY LTG, EGRESS, EXIT, INVERTER, LTG-WALLPACK			1.3	6	20/1	EGRESS, EXH FAN, EXIT, LTG			
7	20/1	LTG, LTG-WALLPACK	0.44			8	20/1	LTG CONTROL	0.1		
9	20/1	FLAG LTG		0.036		10	20/1	SPARE		0	0
11	20/1	SPARE			0	12	20/1	SPARE		0	0
13	20/1	SPARE			0	14	20/1	SPARE		0	0
15	20/1	SPARE			0	16	20/1	SPARE		0	0
17	20/1	SPARE			0	18	20/1	SPARE		0	0
19	20/1	SPARE			0	20	20/1	SPARE		0	0
21	20/1	SPARE			0	22	20/1	SPARE		0	0
23	20/1	SPARE			0	24	20/1	SPARE		0	0
25	20/1	SPARE			0	26	30/3	SPD-L		0	0
27	20/1	SPARE			0	28				0	0
29	20/1	SPARE			0	30				0	0
TOTAL CONNECTED KVA BY PHASE									3.43	1.2	2.8
TOTAL CONNECTED AMPS BY PHASE									28.6	10	23.4
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			7.2	9	(125%)	MOTORS			0.13	0.13	(100%)
LARGEST MOTOR			0.13	0.033	(25%)	RECEPTACLES			0.1	0.1	(50%>10)
TOTAL LOAD									9.26		
BALANCED 3-PHASE LOAD									25.7 A		

(*) INDICATES ARC-FAULT C/B

M2											
ROOM: ELEC 125			VOLTS: 208Y/120V 3P 4W			AIC: 18,000					
MOUNTING: SURFACE			BUS AMPS: 225			MAIN BKR: MLO					
FED FROM: MDP			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	15/3	FAN F-1	0.443	0.443		2	15/3	FAN F-2	0.443	0.443	0.443
3					0.443	4					
5						6					
7	15/3	FAN F-3	0.8			8	15/3	FAN F-4	0.8	0.8	0.8
9					0.8	10					0.8
11						12					
13	30/3	UH-1	2.5	2.5		14	30/3	UH-2	2.5	2.5	
15						16					2.5
17					2.5	18					
19	30/3	UH-3	2.5	2.5		20	30/3	UH-4	2.5	2.5	
21						22					2.5
23					2.5	24					2.5
25	30/3	UH-5	2.5	2.5		26	30/3	UH-6	2.5	2.5	
27						28					2.5
29					2.5	30					2.5
31	15/2	(ALTERNATE M-1) AIR SCRUBBER AS-1	0.828	0.828		32	15/2	(ALTERNATE M-1) AIR SCRUBBER AS-2	0.828	0.828	0.828
33					0.828	34					0.828
35	15/2	(ALTERNATE M-1) AIR SCRUBBER AS-3	0.828	0.828		36	15/2	(ALTERNATE M-1) AIR SCRUBBER AS-4	0.828	0.828	0.828
37					0.828	38					0.828
39	15/2	(ALTERNATE M-1) AIR SCRUBBER AS-5	0.828	0.828		40	15/2	(ALTERNATE M-1) AIR SCRUBBER AS-6	0.828	0.828	0.828
41					0.828	42					0.828
43	15/2	(ALTERNATE M-1) AIR SCRUBBER AS-7	0.828	0.828		44	15/2	(ALTERNATE M-1) AIR SCRUBBER AS-8	0.828	0.828	0.828
45					0.828	46					0.828
47	15/2	(ALTERNATE M-1) AIR SCRUBBER AS									



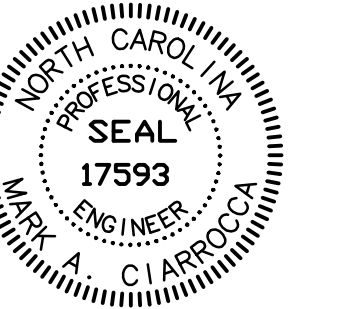
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NC LICENSE# C-1073

ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID. NO. 102-25C
138 OLD SAND RIDGE RD, HUBERT, NC 28639

SEALS



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DKA JOB NUMBER
2324

REVISIONS

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PE: M. CIARROCCA
PM: ALEXANDRE PENEGRE
Drawn By: J. GRITTON
Plot Date: 1/27/2025

DATE ISSUED

BID DOCUMENTS
03/12/2025

SHEET TITLE
ELECTRICAL
PANEL SCHEDULES

E603

P1												
ROOM: ELEC 125			VOLTS: 208Y/120V 3P 4W			AIC: 18,000						
MOUNTING: SURFACE			BUS AMPS: 225			MAIN BKR: MLO						
FED FROM: MDP			NEUTRAL: 100%			LUGS: STANDARD						
NOTE:												
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			
			A	B	C				A	B	C	
1	15/3	FOLDING DOOR	0.443			2	15/3	FOLDING DOOR	0.443	0.443		
3				0.443		4					0.443	
5					0.443	6						
7	15/3	FOLDING DOOR	0.443			8	15/3	FOLDING DOOR	0.443			
9				0.443		10				0.443		
11					0.443	12					0.443	
13	15/3	FOLDING DOOR	0.443			14	15/3	FOLDING DOOR	0.443			
15				0.443		16				0.443		
17					0.443	18					0.443	
19	15/3	FOLDING DOOR	0.443			20	15/3	FOLDING DOOR	0.443			
21				0.443		22				0.443		
23					0.443	24					0.443	
25	15/3	FOLDING DOOR	0.443			26	15/3	FOLDING DOOR	0.443			
27				0.443		28				0.443		
29					0.443	30					0.443	
31	20/1	REC-EXT GFCI	0.9			32	20/1	REC-EXT GFCI	1.08			
33	20/1	REC		0.72		34	20/1	REC		0.72		
35	20/1	REC-CORD REEL			1.08	36	20/1	REC-CORD REEL			1.08	
37	20/1	REC, REC-EXT GFCI	1.08			38	20/1	REC, REC-EXT GFCI	0.9			
39	20/1	REC-BATTERY CHARGER		1		40	20/1	OIL SEPERATOR HIGH LEVEL ALARM PANEL		0.1		
41	20/1	REC-BLOCK HEATER			1.5	42	20/1	SPARE			0	
43	20/1	SPARE	0			44	20/1	SPARE	0		0	
45	20/1	SPARE		0		46	20/1	SPARE		0	0	
47	20/1	SPARE			0	48	20/1	SPARE		0	0	
49	20/1	SPARE	0			50	20/1	SPARE	0		0	
51	20/1	(#) EMERGENCY RESPONDER RADIO		1		52	20/1	SPARE		0	0	
53	20/1	(#) FIRE ALARM PANEL			1	54	20/1	SPARE			0	
TOTAL CONNECTED KVA BY PHASE									8.39	7.97	9.09	
TOTAL CONNECTED AMPS BY PHASE									69.9	66.4	75.8	
			CONN KVA	CALC KVA					CONN KVA	CALC KVA		
LARGEST MOTOR			1.33	0.333	(25%)	RECEPTACLES			7.56	7.56	(50%>10)	
MOTORS			2.76	2.76	(100%)	NONCONTINUOUS			4.5	4.5	(100%)	
						DIVERSE			10.6	0	(0%)	
						TOTAL LOAD				15.2		
						BALANCED 3-PHASE LOAD				42.1 A		

(#) INDICATES BREAKER WITH BREAKER LOCK

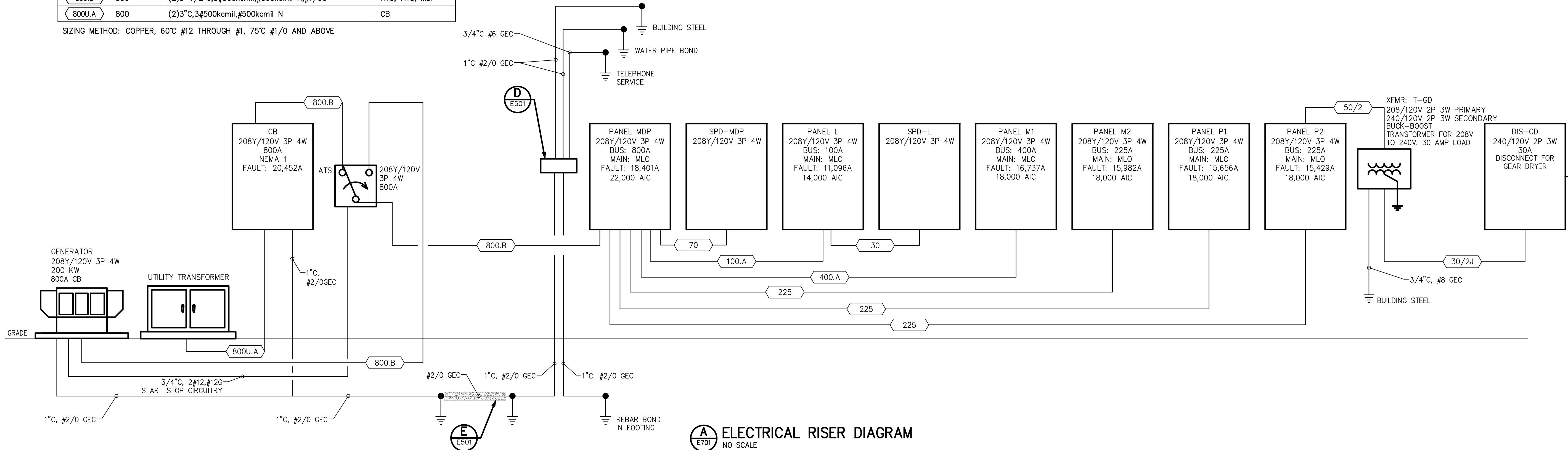
P2												
ROOM: ELEC 125			VOLTS: 208Y/120V 3P 4W			AIC: 18,000						
MOUNTING: SURFACE			BUS AMPS: 225			MAIN BKR: MLO						
FED FROM: MDP			NEUTRAL: 100%			LUGS: STANDARD						
NOTE:												
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			
			A	B	C				A	B	C	
1	20/1	(*) REC, REC-EXT GFCI	1.44			2	20/1	REC	0.72			
3	20/1	(*) REC		1.26		4	20/1	REC-GFCI		0.54		
5	20/1	(*) SMOKE DETECTOR			0.6	6	20/1	REC			0.9	
7	20/1	REC, REC-EXT GFCI	0.9			8	20/1	REC, REC-GFCI	0.9			
9	20/1	REC, REC-EXT GFCI		1.44		10	20/1	(*) REC-WASHER		1		
11	20/1	REC, REC-TV			1.16	12	30/2	REC-DRYER			2.3	
13	20/1	REC	0.9			14			2.3			
15	20/1	REC		0.9		16	20/1	(*) REC-EWC		1.2		
17	20/1	(*) REC-REFRIGERATOR			1	18	20/1	REC			1.08	
19	20/1	(*) REC-REFRIGERATOR	1			20	20/1	REC	1.26			
21	20/1	(*) REC-REFRIGERATOR		1		22	20/1	(*) REC-WASHER		1		
23	20/1	REC			0.9	24	20/1	REC			1.08	
25	20/1	REC, REC-FLOOR	1.08			26	30/2	REC-DRYER	2.3			
27	20/1	REC, REC-TV		1.3		28				2.3		
29	20/1	REC, REC-EXT GFCI			0.9	30	20/1	ICE MACHINE			1	
31	50/2	XFMR T-GD	3			32	20/1	REC	0.72			
33				3		34	20/1	DOOR BELL, REC		0.73		
35	50/2	RANGE			4	36	20/1	REC, REC-GFCI			1.08	
37			4			38	20/1	REC-GFCI	0.36			
39	20/1	(**) REC-HOT BOX		1.5		40	20/1	(*) REC-DISHWASHER		1		
41	20/1	(**) REC-HOT BOX			1.5	42	20/1	SPARE			0	
43	20/1	SPARE	0			44	20/1	SPARE	0		0	
45	20/1	SPARE		0		46	20/1	SPARE		0	0	
47	20/1	SPARE			0	48	20/1	SPARE		0	0	
49	20/1	SPARE	0			50	20/1	SPARE	0		0	
51	20/1	SPARE		0		52	20/1	SPARE		0	0	
53	20/1	SPARE			0	54	20/1	SPARE			0	
TOTAL CONNECTED KVA BY PHASE									20.9	18.2	17.5	
TOTAL CONNECTED AMPS BY PHASE									174	154	149	
			CONN KVA	CALC KVA					CONN KVA	CALC KVA		
RECEPTACLES			21.6	15.8	(50%>10)	CONTINUOUS			3	3.75	(125%)	
KITCHEN EQUIPMENT			8	8	(100%)	NONCONTINUOUS			24	24	(100%)	
						TOTAL LOAD				51.5		
						BALANCED 3-PHASE LOAD				143 A		

(*) INDICATES GFCI C/B
(**) INDICATES GFEP (30mA) C/B
(^*) INDICATES ARC-FAULT C/B

FEEDER SCHEDULE

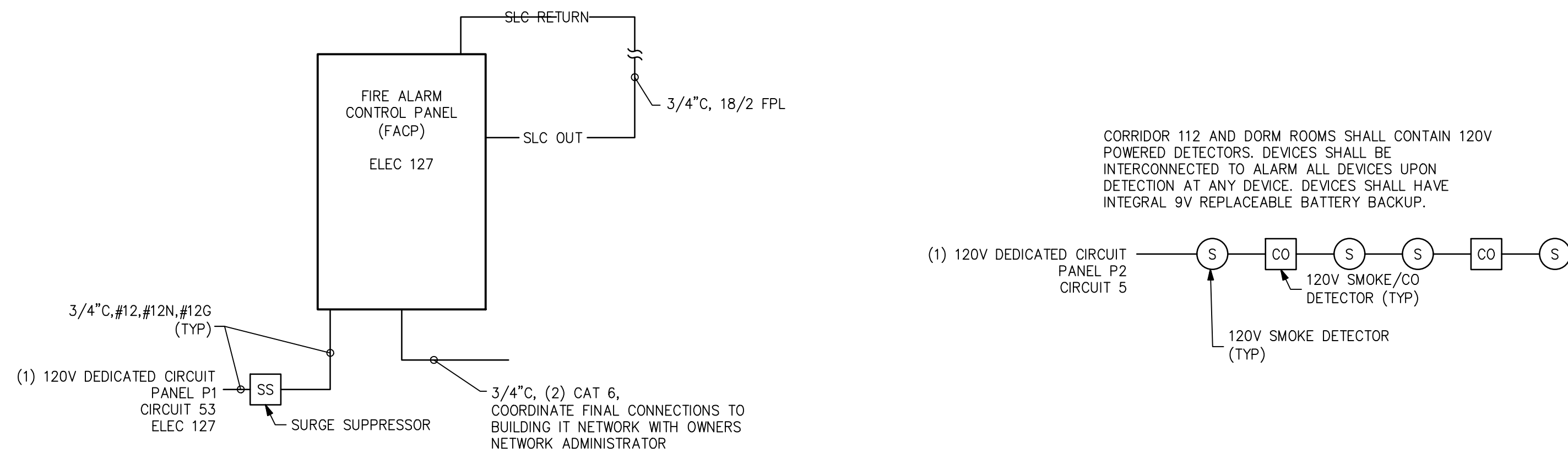
ID	FEEDER	CONDUIT AND FEEDER	FEEDING THESE DEVICES
30	30	3/4"C,3#10,#10N,#10G	SPD-L
30/2J	30	3/4"C,2#10,#10N,#8G	DIS-GD
50/2	50	3/4"C,2#6,#6N,#10G	T-GD
70	70	1-1/4"C,3#4,#4N,#4G	SPD-MDP
100.A	100	1-1/4"C,3#2,#2N,#8G	L
225	225	2-1/2"C,3#4/O,#4/O,N,#4G	M2, P1, P2
400.A	400	3-1/2"C,3#500kcmil,#500kcmil N,#3G	M1
800.B	800	(2)3-1/2"C,3#500kcmil,#500kcmil N,#1/OG	ATS, ATS, MDP
800U.A	800	(2)3"C,3#500kcmil,#500kcmil N	CB

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C #1/0 AND ABOVE



A ELECTRICAL RISER DIAGRAM
NO SCALE

SYSTEM INPUTS	FIRE ALARM OPERATION MATRIX												
	A	B	C	D	E	F	G	H	J	K	L	M	
1 WALL MOUNTED SMOKE DETECTOR	X	X						X				X	1
2 SPRINKLER WATERFLOW	X	X						X				X	2
3 SPRINKLER CONTROL VALVE TAMPER SWITCH			X	X				X				X	3
4 FIRE ALARM SYSTEM POWER FAILURE (8 HRS)			X	X				X		X		X	4
5 FIRE ALARM SYSTEM LOW BATTERY			X	X				X		X		X	4
6 OPEN CIRCUIT					X	X		X		X		X	5
7 GROUND FAULT					X	X		X		X		X	6
8 NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X		X		X		X	7
9 HALL SHUTDOWN DEFEAT SWITCH					X	X		X		X		X	8
10 ERRCS ANTENNA MALFUNCTION		X	X					X					9
11 ERRCS BDA FAILURE		X	X					X					10
12 ERRCS LOW BATTERY		X	X					X					11
13 ERRCS AC POWER LOSS		X	X					X					12
14 ERRCS SYSTEM COMPONENTS FAILURE		X	X					X					13
15 ERRCS BATTERY CHARGER FAILURE		X	X					X					14
16 ERRCS COMMUNICATION LINK TO FACP		X	X					X					15
17 ERRCS OSCILLATION DETECTION		X	X					X					16



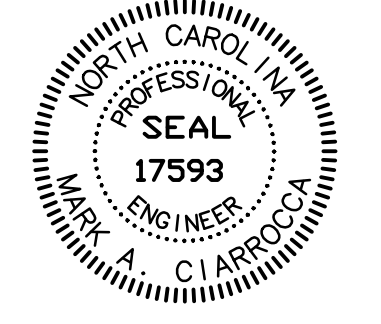
- NOTE:
- FIELD VERIFY MANUFACTURER'S NPL ENTRANCE KO ON ALL ENCLOSURES.
 - CONDUCTOR SIZES INDICATED ARE MINIMUM GAUGE REQUIREMENTS. ACTUAL INSTALLED CONDUCTOR SIZES SHALL BE DETERMINED BY VOLTAGE DROP CALCULATIONS PERFORMED BY THE CONTRACTOR.
 - ALL CONDUIT SHALL BE 3/4" UNO.

B FIRE ALARM SYSTEM RISER DIAGRAMS
NO SCALE



ONSLOW COUNTY BEAR CREEK FIRE STATION
ONSLOW COUNTY
BID. NO. 102-25C
138 OLD SAND RIDGE RD, HUBERT, NC 28639

SEALS



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DKA JOB NUMBER
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PE: M. CIARROCCA
PM: ALEXANDRE PENEGRE
Drawn By: J. GRITTON
Plot Date: 1/27/2025

DATE ISSUED

BID DOCUMENTS
03/12/2025

SHEET TITLE
ELECTRICAL RISERS

E701