



REQUEST FOR PROPOSAL

Special Inspection and Material Testing Services

Scope of Services

The Town of Nolensville requests proposals from qualified companies for special inspection and material testing services for the construction of the Nolensville Fire Station #1. The scope of work covered by this proposal includes the categories listed below. The specific work that would be performed is outlined in the project specifications and summarized below. The testing service guidelines are contained in Specification Section 014100 "Quality Requirements" and Section 014524 "Structural Testing".

At the conclusion of work, a letter from the testing agency will be required. It will state that, based upon the results of the work tested and to the best of the testing agency's knowledge, the structural work conforms to the project specifications, the structural documents, and the building code.

Response Delivery and Deadline:

Three printed copies of the response, along with an electronic version on a flash drive must be sealed in one envelope with the envelope clearly labeled:

**"TOWN OF NOLENSVILLE FIRE STATION #1
SPECIAL INSPECTIONS AND MATERIAL TESTING SERVICES RFP"**

Responses are to be delivered no later than 2:00 pm on May 26, 2023 to:

Nolensville Town Hall
Attn: Montique Luster
7218 Nolensville Road
Nolensville, TN 37135

Subject to applicable laws and regulations, the Town reserves the right to reject, at its sole discretion, any and all responses.

Upon completion of response evaluations, responses and associated materials will be open for review by the public in accordance with Tennessee Code Annotated, Section 10-7-504(a)(7).

Communications

Questions regarding this RFP should be submitted via email only to:

Assistant Fire Chief Matthew Lupo
mlupo@nolensvilletn.gov

Scope of Services

The scope of work covered by this proposal includes the categories listed below. The specific work that would be performed is outlined in the project specifications and summarized below. The testing service guidelines are contained in Specification Section 014100, 014524.

At the project's conclusion, a letter from the testing agency will be required. It will state that, based upon the results of the work tested and to the best of the testing agency's knowledge, the structural work conforms to the project specifications, the structural documents and the building code.

Special Inspections (International Building Code, 2018 Edition)

Building Code,, Code/Design Criteria of Structural Notes, Drawing S001, S002, and the Special Inspection Schedule, Drawing S003.

Earthwork under Building (Specification Section 312310)

Earthwork testing and inspection under the building and 10 feet beyond the perimeter will be as outlined in Structural Fill Specification Sections. This work will require full-time/part-time inspection based on the building code. A proposed structural fill sample will be obtained and the required laboratory tests will be performed. Proper depth of cut will be verified, stripped subgrades will be examined by means of proofrolling, and an appropriate quantity of density tests on structural fill will be performed. Specified equipment and compaction procedures will be verified.

Foundations (Specification Section 312310 and Structural Drawings)

The foundation system for this project will be spread footings. Inspection during foundation placement will be full-time/ part-time per the building code.

Before concrete placement, the foundation bearing area of the spread footings will be verified for the required bearing capacity. The reinforcing steel will be verified according to what is listed in the "Reinforcing Steel" section below. Dowel size, spacing, and projected lap splice length will be verified. The appropriate concrete tests as outlined below will be performed.

Normal Weight Concrete (Specification Section 033000)

Tests on fresh concrete, as listed in the specifications, along with cylinders will be taken for every 75 cubic yards of concrete. Four cylinders per set will be required for compressive strength tests. Any 7-day compressive strength test that breaks less than 70 percent of the design strength and any 28-day compressive strength test that breaks less than the design strength will be reported by telephone.

The contractor may mold cylinders, as an economic consideration, when authorized by the Structural Engineer. The Testing Agency will furnish equipment for performing slump tests and cylinder molds for compressive strength tests. The Testing Agency will verify that the Contractor is familiar with and understands the proper cylinder storage, transport and testing procedures. Specimens will be delivered to the Testing Agency by the Contractor. The concrete compressive strength tests will be performed by the Testing Agency.

Concrete Mixes (Specification Section 033000)

Concrete mixes will be provided for cursory review and comments concerning workability, pumpability, and general strength and durability considerations.

Reinforcing Steel (Specification Section 032000, 032100)

Size, quantity, clearance to the edge of form, location, length, hook orientation and lap splice length of reinforcing steel will be verified. Reinforcing steel will be inspected for proper support to prevent displacement during concrete placement.

Masonry (Specification Section 042300)

Masonry walls will be verified to see that the proper cells are filled with grout and that they are reinforced with the proper size bars with the correct spacing and lap splice length. Masonry grout will be tested by individual mortar cubes. Masonry block will be tested as outlined in the specifications.

High-Strength, Non-Shrink Grout (Specification Section 036200)

A sample of six compressive strength cubes per 10 bags or less of grout used and a minimum of one set of six cubes for each day of grouting will be taken and tested. Placement will be periodically visually monitored.

Concrete Structural Members (Specification Sections 031000, 032000, 033000 and Structural Drawings)

Concrete elements will have dimensions verified. Reinforcing steel and concrete placements will be inspected in accordance with the paragraphs listed above.

Structural Steel and Decking (Specification Sections 051200, 053000)

Structural steel inspection will include anchor bolts, erection procedures, bolted connections, welded connections, and deck placement. Anchor bolts will be checked for proper size, configuration and embedment and projection lengths. Erected structural steel will be observed for compliance with the *AISC Code of Standard Practice*. Bolt tensioning and inspection will be verified with a Skidmore-Wilhelm Tensioning Device. All bolted connections will be visually inspected.

Welders and welding procedures will be verified that they meet the AWS Standards. A random selection of joints for proper fit and joint preparation will be visually inspected before welding. All finished structural welds will be visually inspected for conformance with the size and length requirements. All complete penetration welds will be verified by ultrasonic examination unless noted otherwise in the specifications.

All composite and roof decking attachments will be verified that they are according to the structural documents.

Earthwork and Pavement

Earthwork and pavement testing and inspection outside the building will be as outlined in sections of Divisions 31 and 32.

Cost Estimate

Provide an estimated cost for each section of the scope of services and submit a detailed backup showing how the fee was developed. Consider the projected construction schedule and the fact that extended days, unusual conditions and early morning concrete placements are a normal part of construction. Engineering and laboratory services are to be included in this price. Include an estimate for travel expenses. Provide unit prices that are guaranteed not to escalate for the duration of the job for the following: Engineering Services, Technical Services, Laboratory Services, Direct Expenses, and any other reimbursable expenses.

Exceptions

List any exceptions taken to the requirements listed in this Request for Proposal.

Project Team

Provide a project staffing and organizational scheme for the implementation of your services. Include resumes for each person who would be involved in the project.

Insurance

A Professional Liability Insurance Policy with a \$1,000,000 limit for each occurrence is required. Provide documentation of this coverage with your proposal. Firms not having \$1,000,000 in Professional Liability Insurance will not be awarded this project. Workmen's Compensation coverage is required according to State of Tennessee law. Describe your general liability coverage.

Test Reports

Provide a sample test report for each of the scope of services sections. Copies of the actual reports for this project will be furnished to the Owner, Contractor, Architect, Structural Engineer, Civil Engineer (for civil testing) and the Local Building Authorities.

The owner is requesting the report be distributed within 48 hours. Field notes regarding test and inspection results will need to be given to the superintendent prior to leaving the jobsite. The following information will need to be included in the field notes: message given to the contractor, the date and time of the message, the signature of the person informed, and the name of the testing agency representative. Work or materials not complying with the specifications is to be brought to the attention of the contractor and the Structural Engineer

immediately. Non-compliances are to be followed up when corrected and documented in a report.

The reports to be distributed are to include all the applicable areas of testing and inspection listed in this letter. Also to be distributed is a daily summary of the work that your firm has completed at each jobsite visit and the number of hours spent on site that day.

Invoices

The contract for the testing and inspections services will be with the owner, Town of Nolensville.

Items to be noted on the invoices will include: the project name, the project location, Owner's/Architect's project number #A01122 invoice number, dates of services performed, types of services performed, discounts, name and address for payment remittance, and the total invoice amount.

Time and charges for retesting or reinspection are to be kept separate and invoiced as directed.

List any other information that you feel is important for the project team to consider when awarding this work. Award of the work will be made based on qualification, experience with similar projects, personnel, unit prices, and an accurate, not necessarily the lowest, estimate of the scope of work.

ARCHITECTURE & INTERIOR DESIGN

TMPartners, PLLC

211 FRANKLIN ROAD, SUITE 200
BRENTWOOD, TENNESSEE 37027-5593
615.377.9773
www.TMPartners.com

STRUCTURAL ENGINEERING

STANLEY D. LINDSEY & ASSOCIATES, LTD.

750 OLD HICKORY BLVD
BUILD 1, SUITE 175
BRENTWOOD, TENNESSEE 37027
615.320.1735
www.sdlal.com

**MECHANICAL, PLUMBING, & ELECTRICAL
ENGINEERING, TECHNOLOGY DESIGN**

I.C. THOMASSON ASSOCIATES, INC.

2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TENNESSEE 37204
615.346.3400
www.ictomasson.com

CIVIL ENGINEERING/LANDSCAPE ARCHITECTURE

KIMLEY-HORN AND ASSOCIATES, INC.

10 LEA AVENUE, SUITE 400
NASHVILLE, TENNESSEE 37210
615.564.2701
www.kimley-horn.com

OWNER

TOWN OF NOLENSVILLE

7218 NOLENSVILLE RD
NOLENSVILLE, TN 37135
615.776.3633
www.nolensvilletn.gov

TOWN OF NOLENSVILLE
FIRE STATION #1

7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE

TMP PROJ. No. A01122



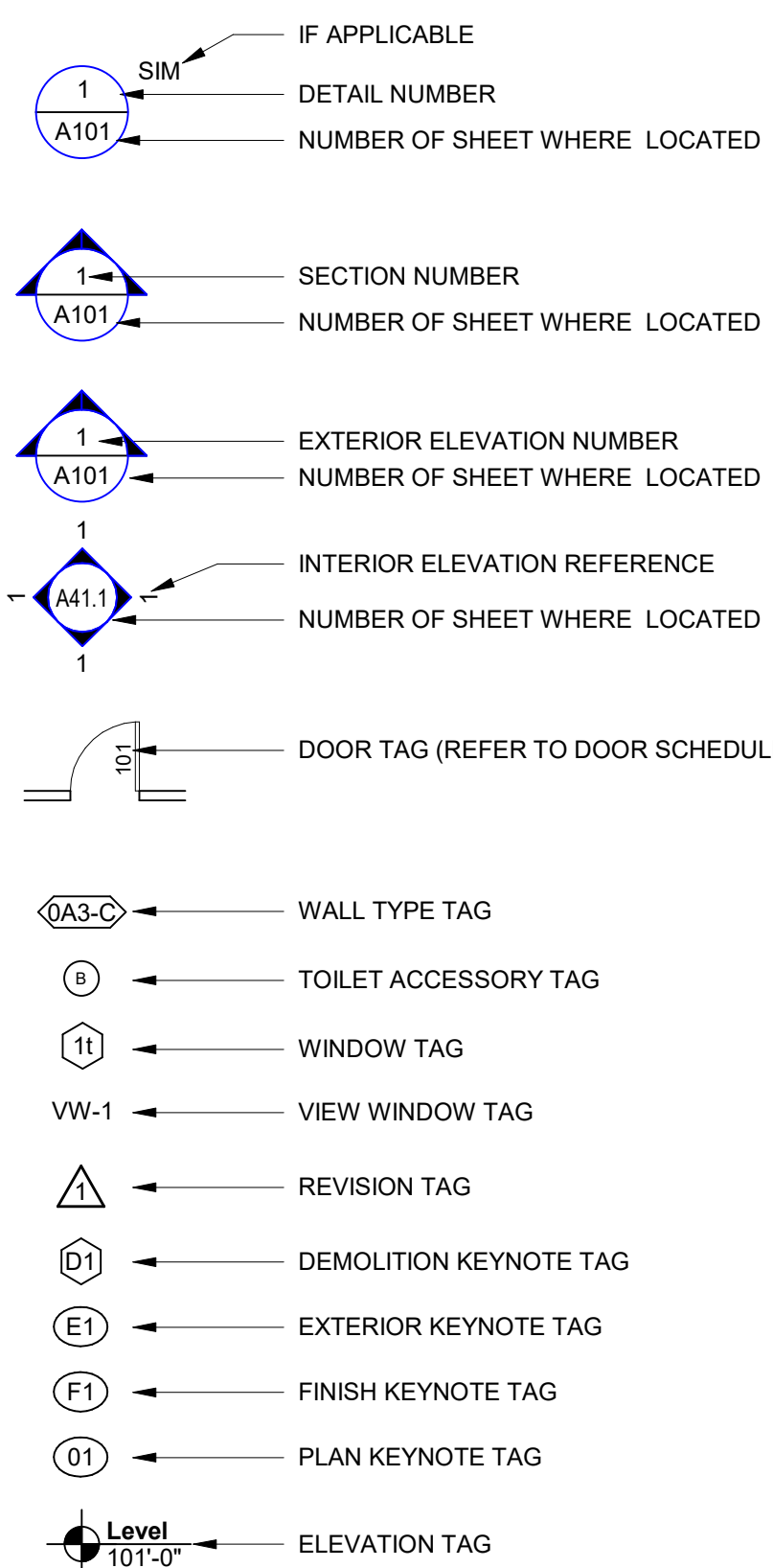
CONSTRUCTION DOCUMENTS

MARCH 3, 2023



TMPartners, PLLC
Architecture Interiors Planning

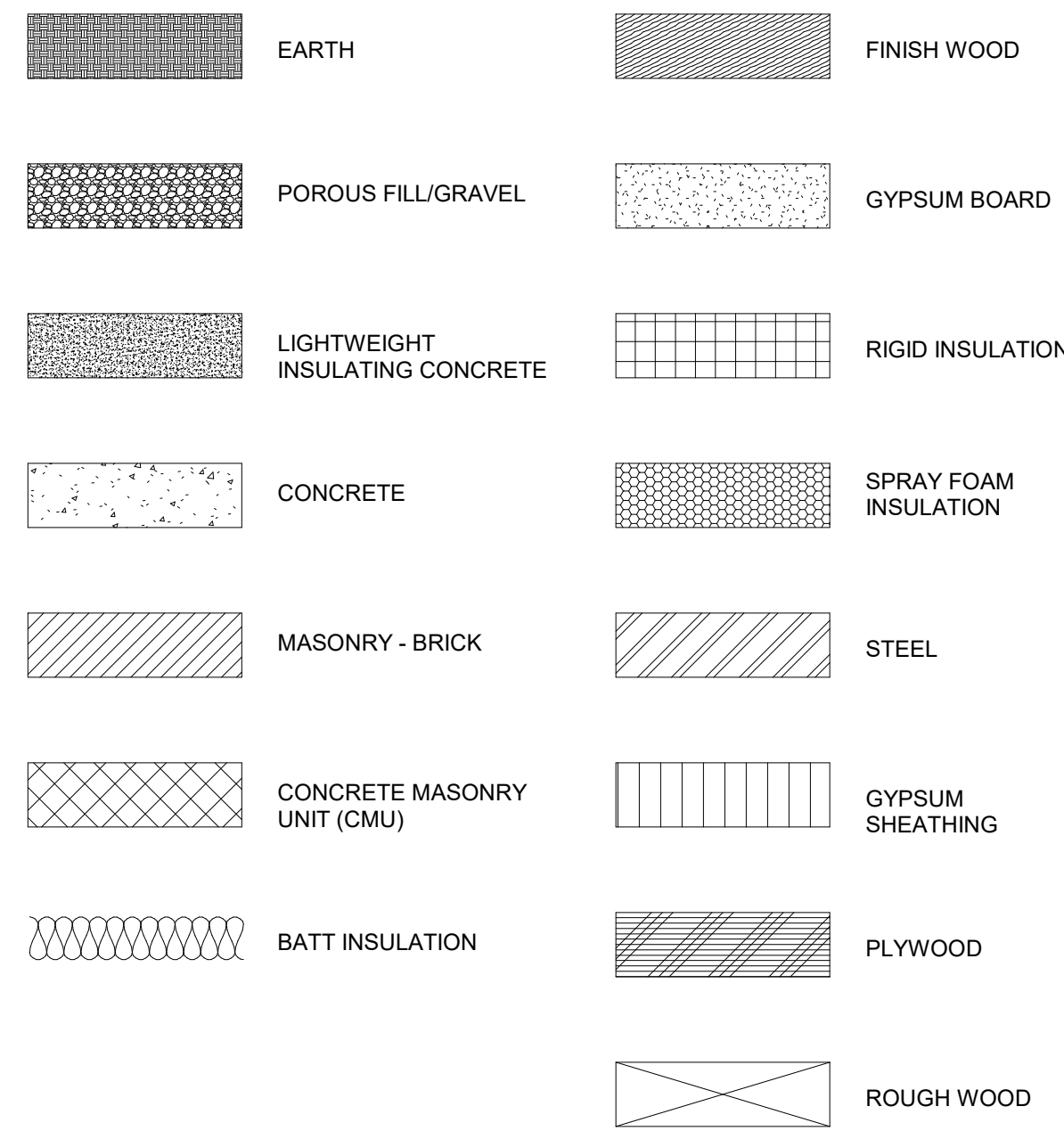
GRAPHIC SYMBOLS



ABBREVIATIONS

Table of abbreviations for architectural and engineering terms, including degrees, materials, and construction details.

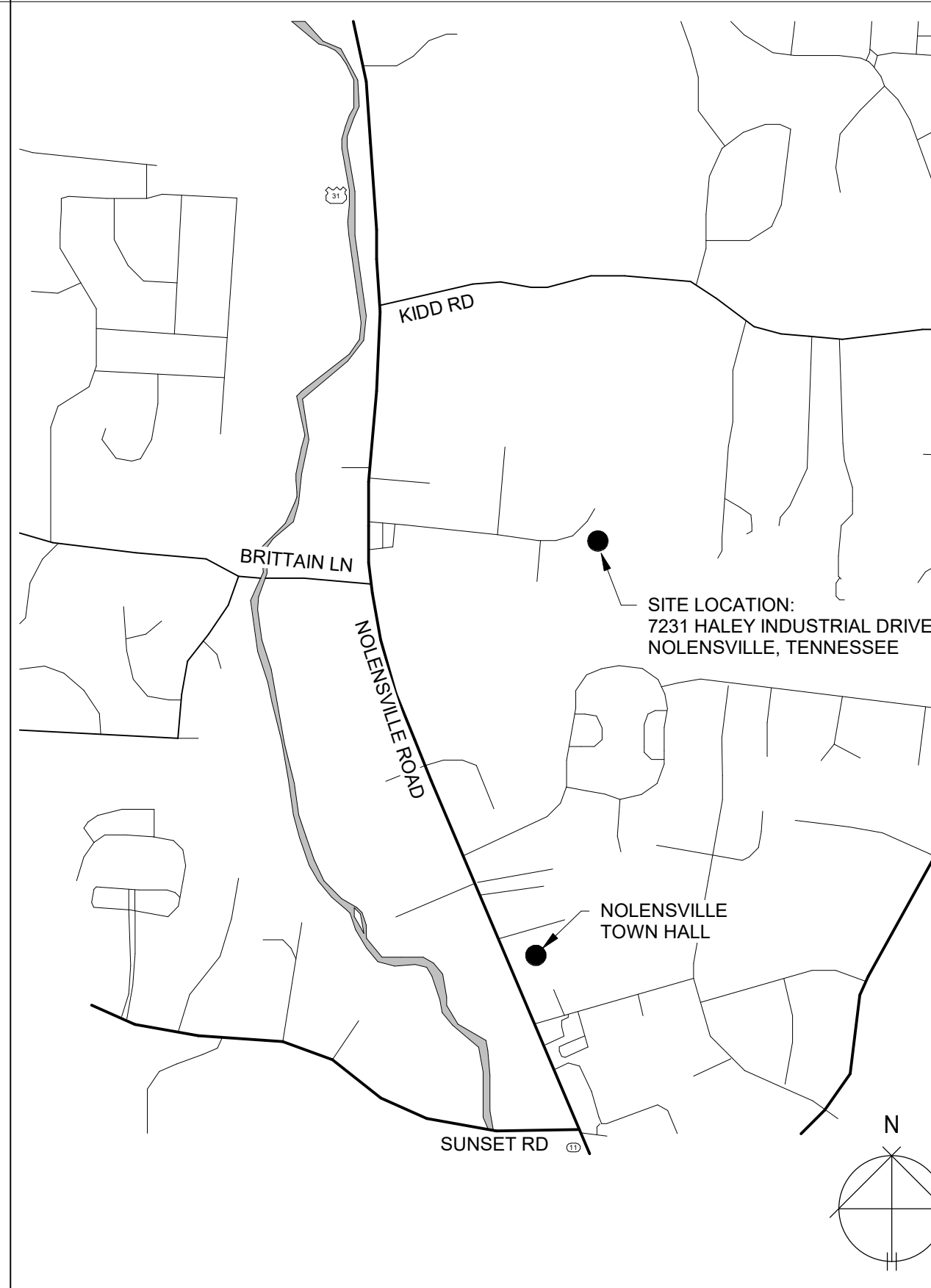
MATERIALS LEGEND



GENERAL NOTES

- 1. DO NOT SCALE DRAWINGS.
2. THE CONTRACTOR MUST FIELD MEASURE AND VERIFY BUILDING CONDITIONS TO ASSURE THE DIMENSIONS SHOWN ON THE DRAWINGS CAN BE OBTAINED BEFORE STARTING CONSTRUCTION.
3. VERIFY ALL DIMENSIONS BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK.
4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DIMENSIONS ON THE SHOP DRAWINGS.
5. NOTIFY THE ARCHITECT OF ANY VARIATION IN THE DIMENSIONS NOTED FOR VERIFICATION FOR THE INSTALLATION OF EQUIPMENT OR OTHERWISE BEFORE CONTINUING WITH THE WORK.
6. CLEARANCE DIMENSIONS SHALL BE MAINTAINED.
7. FLOOR PLAN DIMENSIONS ARE FROM FACE OF MASONRY CONSTRUCTION AND ARE TO CENTERLINE OF STUD PARTITIONS UNLESS OTHERWISE INDICATED.
8. IN THE EVENT DISCREPANCIES ARE FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE CONTINUING WORK IN QUESTION.
9. CONCEAL ALL CONDUIT IN WALLS AND ABOVE CEILING. FURR OUT WALLS AS NECESSARY. ALL RATED WALLS ARE CONTINUOUS ABOVE AND BELOW DOORS AND WINDOWS.
10. ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED. ALL WOOD USED IN AREAS WHERE EXPOSURE TO MOISTURE IS POSSIBLE AND AT EXTERIOR WALLS SHALL BE TREATED TO RESIST ROT.
11. THE AREA OF WORK MUST BE SECURE AT THE END OF EACH WORKING DAY. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS AND ERECT TEMPORARY BARRIERS AS NECESSARY.
12. REFER TO CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, TECHNOLOGY DRAWINGS AND ALL OTHER CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION AND COORDINATION.
13. "NON-DISCRIMINATION STATEMENT" ALL DESIGN AND CONSTRUCTION SHALL BE IN FULL COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE JUSTICE DEPARTMENT'S STANDARD FOR ACCESSIBLE DESIGN (JSDAD), INITIALLY SET FORTH IN 28CFR36, APP. A EFFECTIVE AT THE DATE OF IMPLEMENTATION.
14. THE CONTRACTOR SHALL OBTAIN A "HOT WORK" PERMIT PRIOR TO BEGINNING ANY WELDING, CUTTING, BRAZING, GRINDING, OR OTHER ACTIVITY THAT GENERATES SPARKS CAPABLE OF CAUSING COMBUSTION PER NFPA 518 AND NFPA 601.

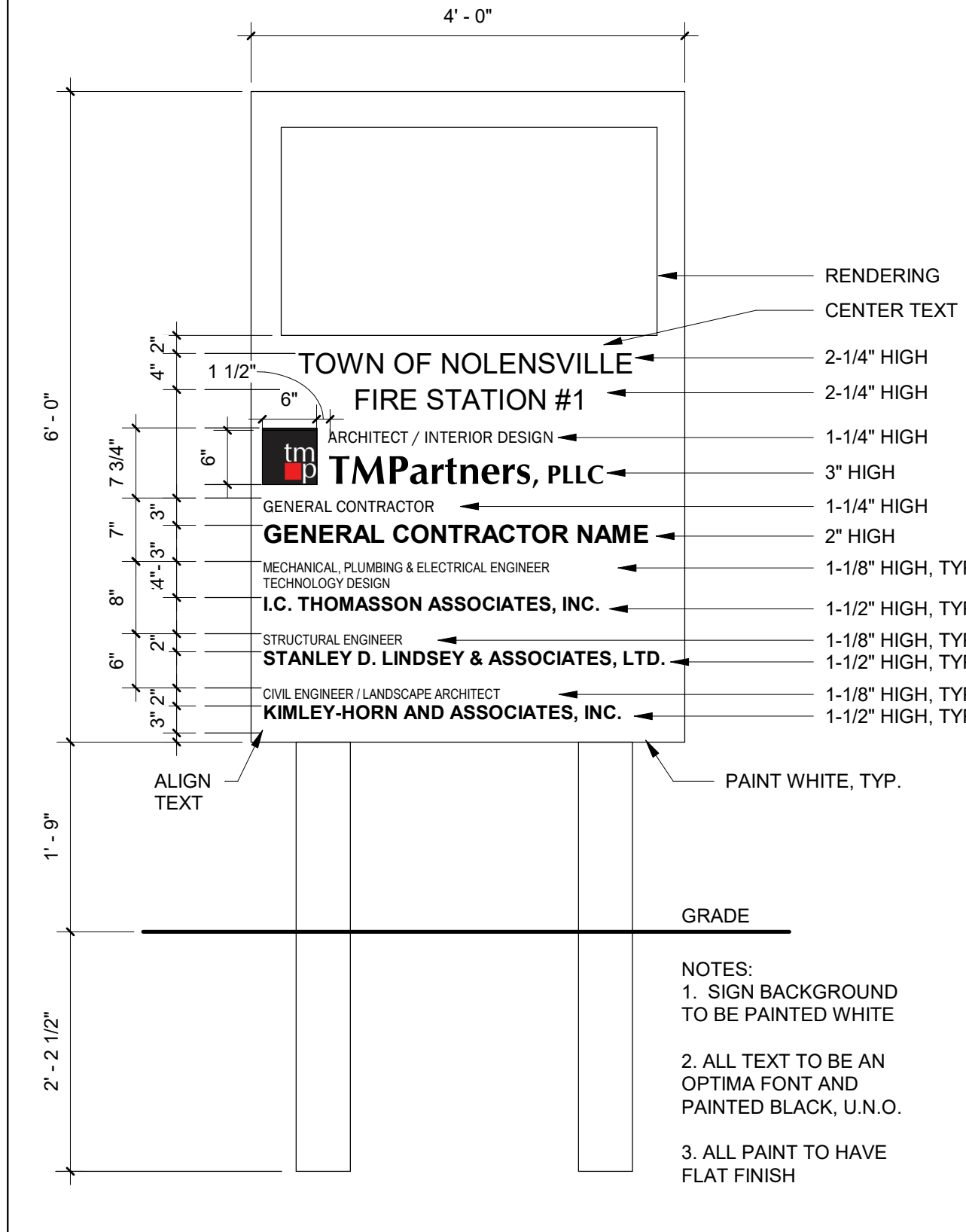
VICINITY MAP



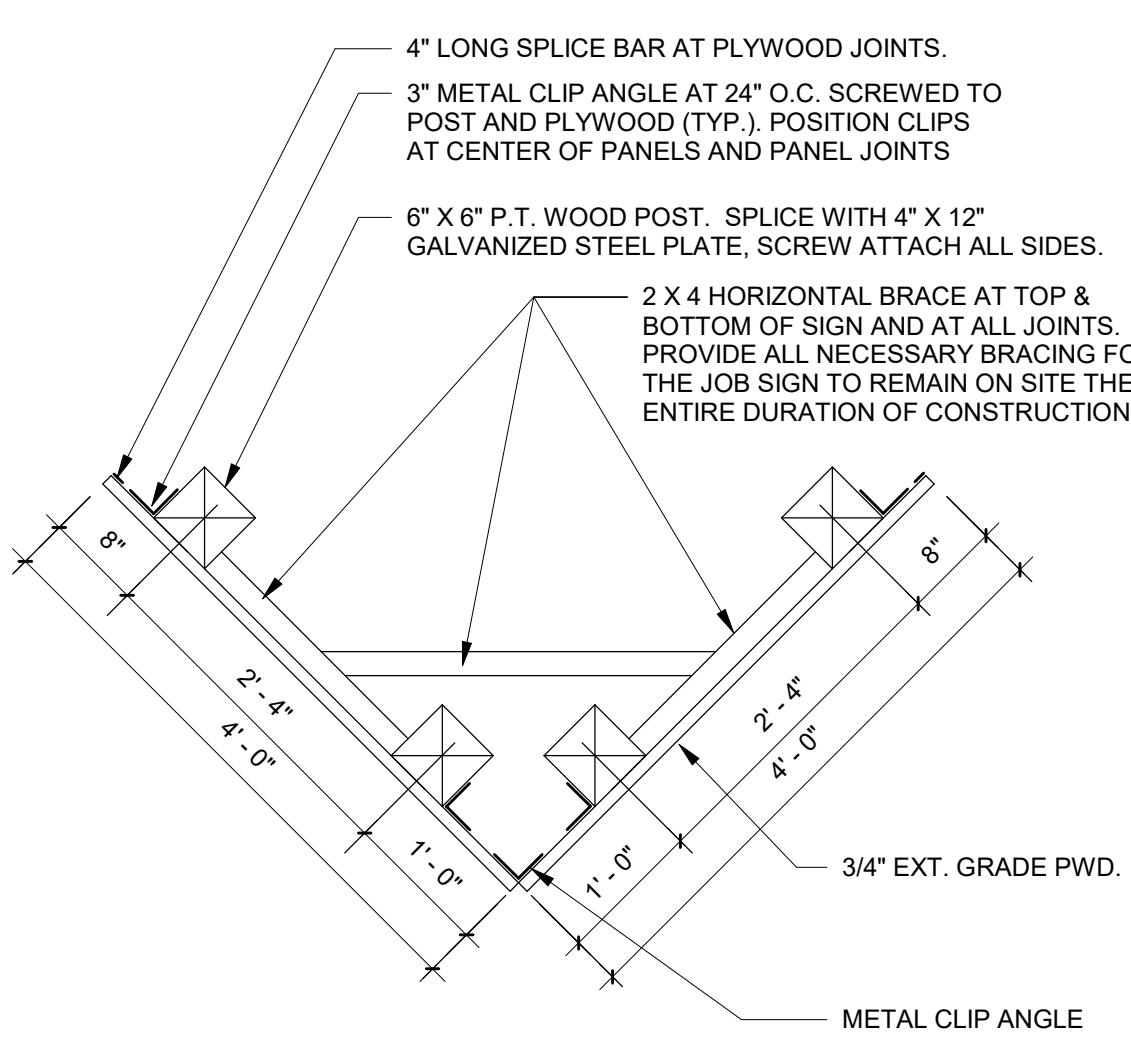
PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A NEW FOUR-BAY FIRE STATION WITH AN ATTACHED LIVING AREA. THE LIVING AREA INCLUDES A TRAINING ROOM, WORK/STUDY ROOM, COFFEE BAR, KITCHEN, AND 10 BUNK ROOMS WITH ASSOCIATED SUPPORT SPACES.

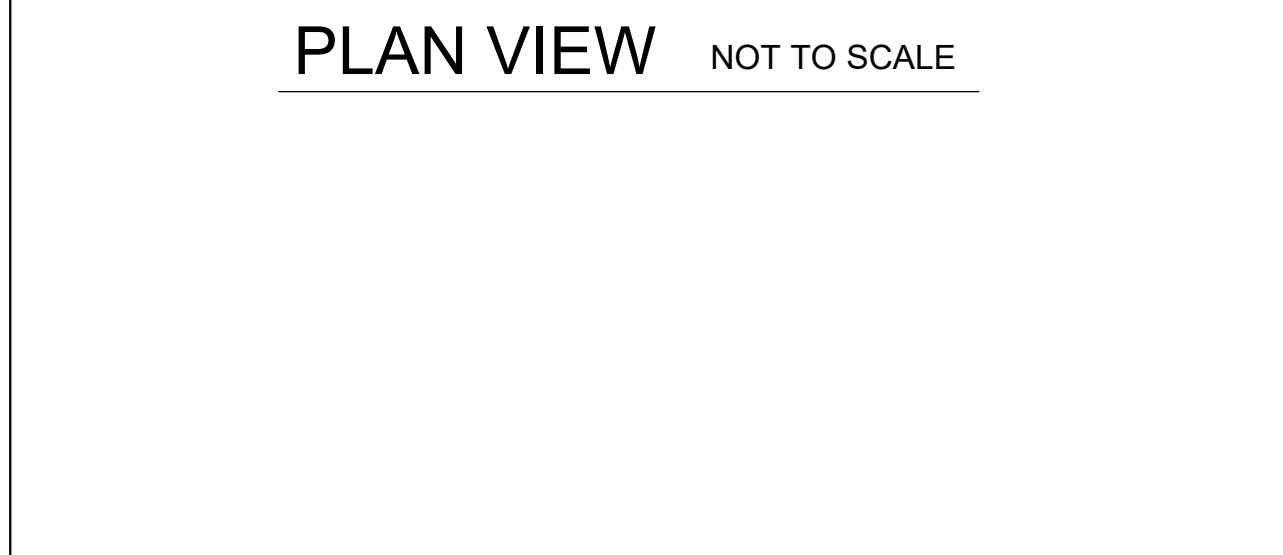
JOB SIGN



ELEVATION NOT TO SCALE



PLAN VIEW NOT TO SCALE



PLAN REVIEW DATA

Table of applicable codes for the project, including International Building Code, International Fuel Gas Code, International Plumbing Code, International Mechanical Code, International Energy Conservation Code, International Fire Code, National Electrical Code, and Life Safety Code.

BUILDING OCCUPANCY CLASSIFICATION

IBC: MIXED-GROUP R-2 RESIDENTIAL (DORMITORY); GROUP S-2 STORAGE

CONSTRUCTION TYPE

IBC: I-B FULLY SPRINKLERED

FIRE SUPPRESSION SYSTEM

COMPLETE AUTOMATIC PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH: R-2: IBC 903.3 AND NFPA 13R

BUILDING HEIGHT AND AREA

Table comparing allowable and proposed design for building height, stories, and area based on occupancy group R-2/S-2.

- 1. ALLOWABLE HEIGHT, STORIES, AND AREA BASED ON 2018 IBC TABLES 504.3, 504.4, AND 506.2.
2. ALLOWABLE HEIGHT, STORIES, AND AREA BASED ON 2012 IBC TABLES 504.2, AND 506.3.
3. MEZZANINE IN COMPLIANCE WITH IBC 505.2 SHALL BE CONSIDERED A PORTION OF THE STORY BELOW.

FIRE RESISTANCE RATED CONSTRUCTION

Table of fire resistance rated construction for various building elements like structural frame, walls, and floors.

WALL PARTITIONS/BARRIERS

Table of wall partitions and barriers with required fire resistance, code references, and opening protection.

INCIDENTAL USE AREA SEPARATIONS

Table of incidental use area separations for laundry rooms and other areas.

INTERIOR FINISHES

Table of interior finishes for different occupancy groups and spaces.

MEANS OF EGRESS (BASED ON 2012 IBC)

- A. CORRIDOR WIDTH (IBC TABLE 1018.2); MINIMUM CORRIDOR WIDTH: 44" MINIMUM
B. DEAD ENDS (IBC 1018.4 EXCEPTION 2): 50'-0" MAXIMUM
C. EXIT ACCESS TRAVEL DISTANCE FOR R OCCUPANCY (IBC TABLE 1016.2): 250'-0" MAXIMUM
D. DOOR WIDTH (IBC 1008.1.1): 32" CLEAR WIDTH
E. CORRIDOR FIRE-RESISTANCE RATING (IBC TABLE 1018.1): 12-HOUR FIRE PARTITION
F. CORRIDOR CEILING FIRE-RESISTANCE RATING (IBC 708.4 EXCEPTION 2): NOT RATED
G. DWELLING AND SLEEPING UNIT SEPARATION (IBC 708.3 EXCEPTION 2): 12-HOUR FIRE PARTITION
H. COMMON PATH OF EGRESS TRAVEL DISTANCE (IBC TABLE 1014.3): 125'-0" MAXIMUM
I. EMERGENCY ESCAPE AND RESCUE OPENINGS (IBC 1029.2): 5.7 SQUARE FEET NET CLEAR

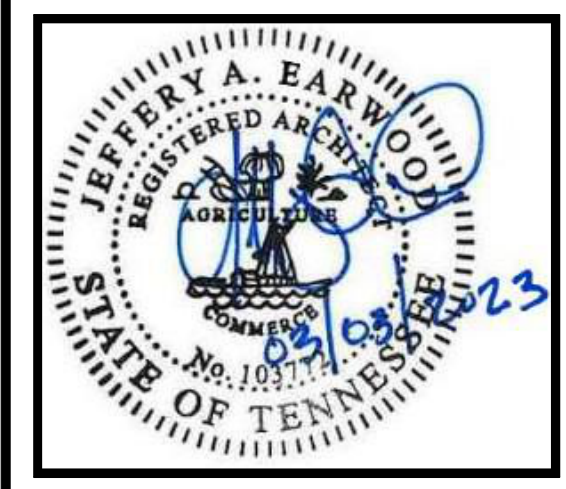
ENERGY

- A. IECC CLIMATE ZONE: 4A
B. BUILDING ENVELOPE REQUIREMENTS (2012 IECC TABLE C402.2), GROUP R AND GROUP S
C. BUILDING ENVELOPE REQUIREMENTS - FENESTRATION (2012 IECC TABLE C402.3)

DRAWING INDEX

Comprehensive drawing index listing sheet numbers and titles for various sections including General, Civil, Landscape, Architectural, Structural, Mechanical, Plumbing, Fire Protection, Electrical, and Telecommunication.

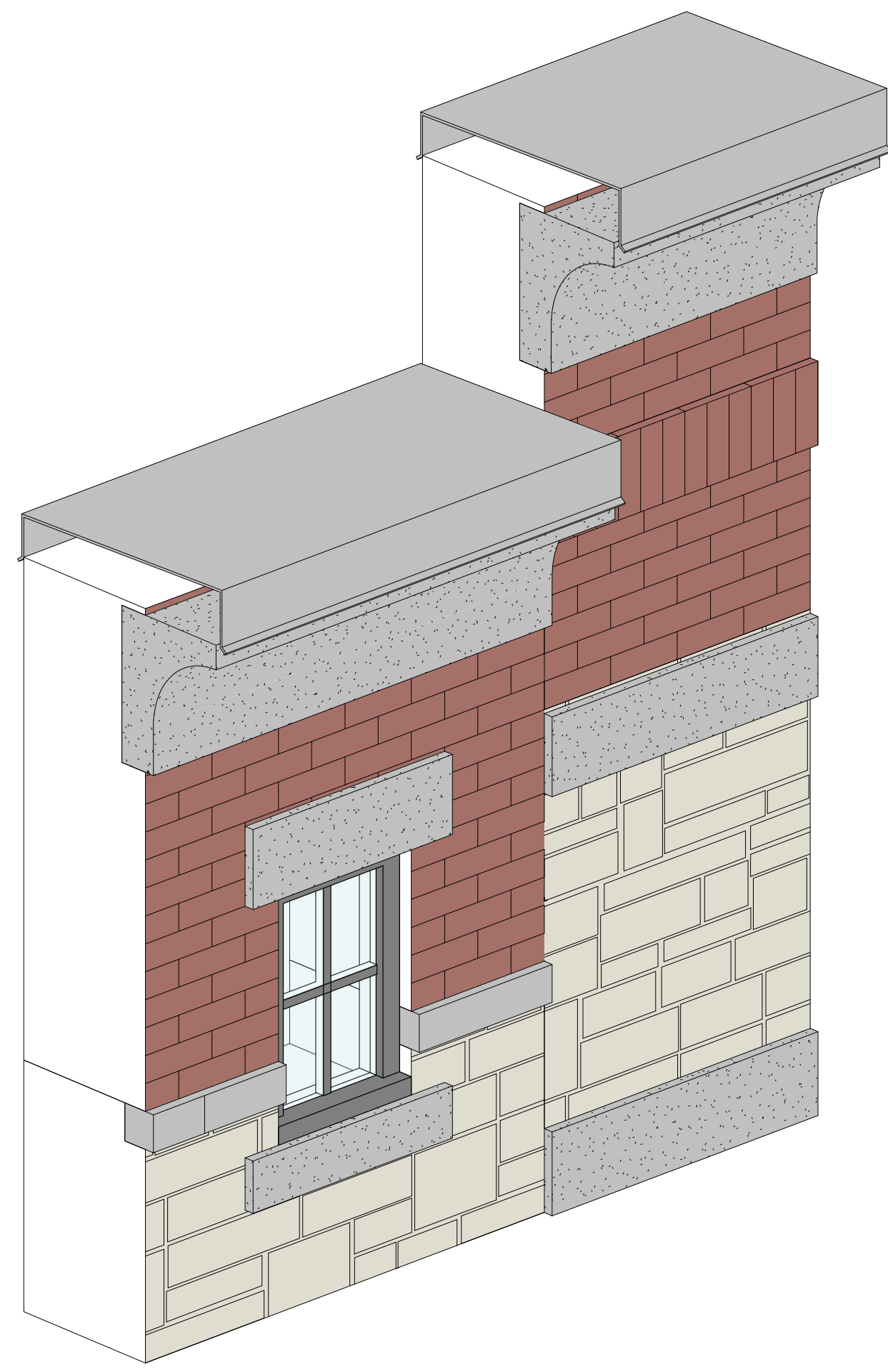
tm Partners, PLLC logo and contact information: 211 Franklin Road, Suite 200, Brentwood, TN 37027-5593.



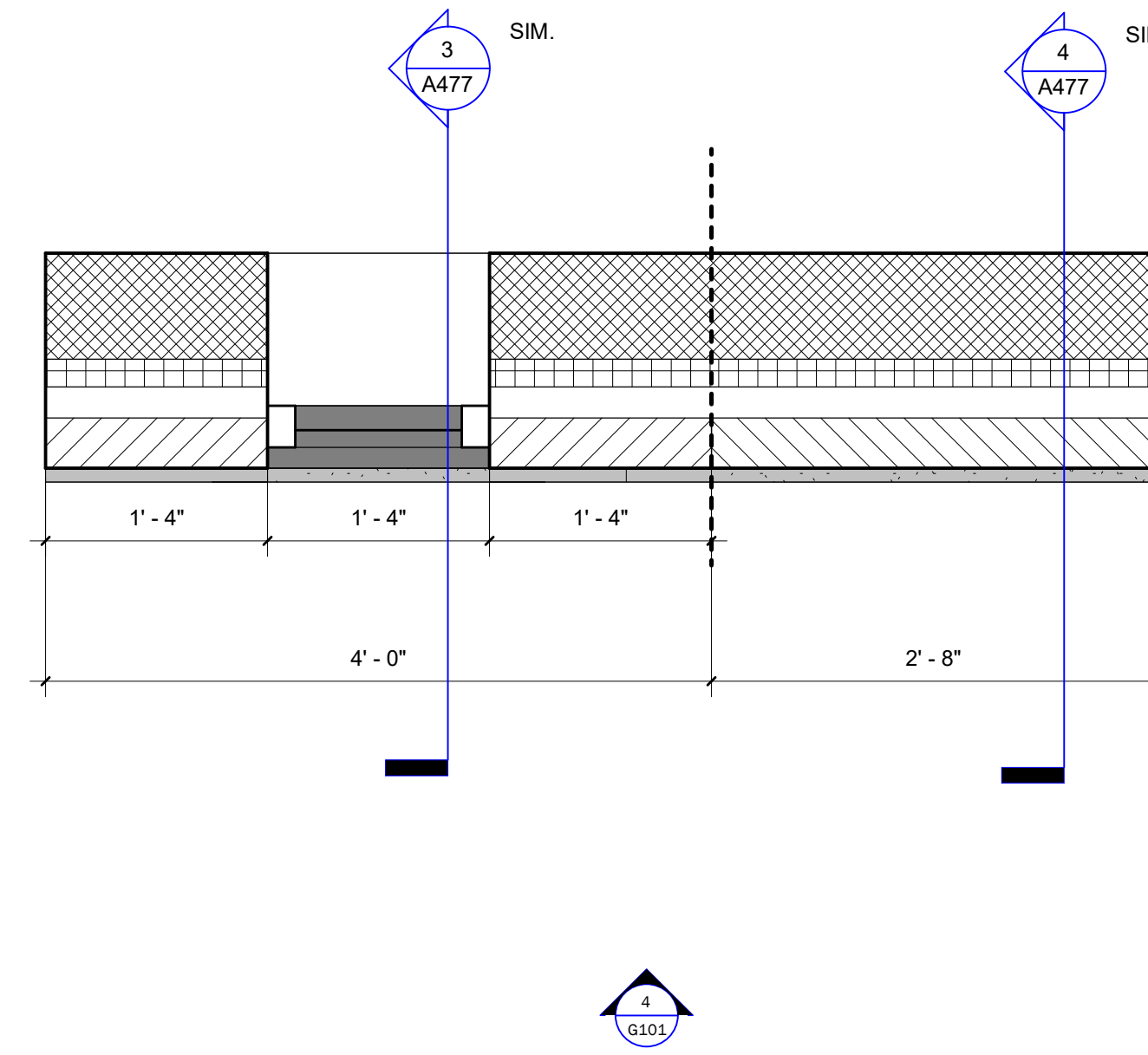
TOWN OF NOLLENSVILLE FIRE STATION #1 7231 HALEY INDUSTRIAL DRIVE NOLLENSVILLE, TENNESSEE

REVISIONS table with columns for revision number, description, and date.

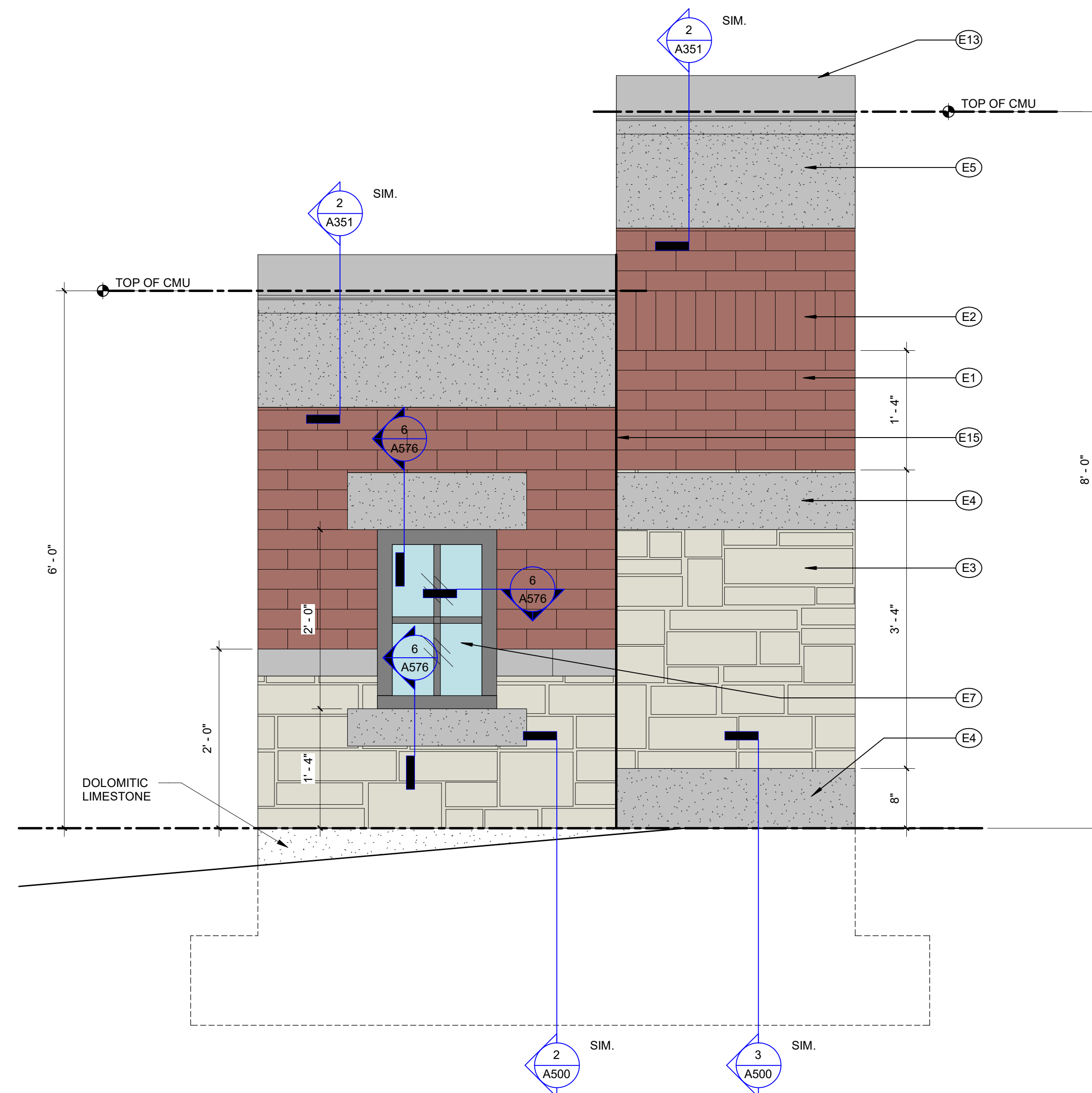
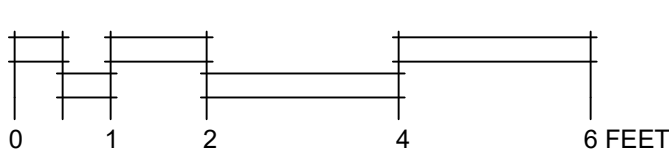
DR. BY SH, CK. BY JE, LS, PROJ. NO. A01122, DATE 03/03/23, DRAWING INDEX / PLAN REVIEW DATA / GENERAL INFORMATION, G100



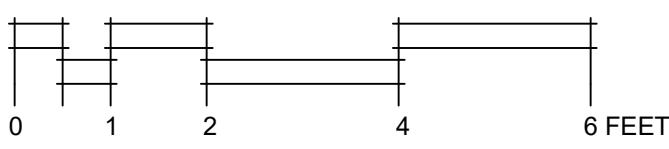
1 3D - FOR REFERENCE ONLY



2 PLAN



4 ELEVATION



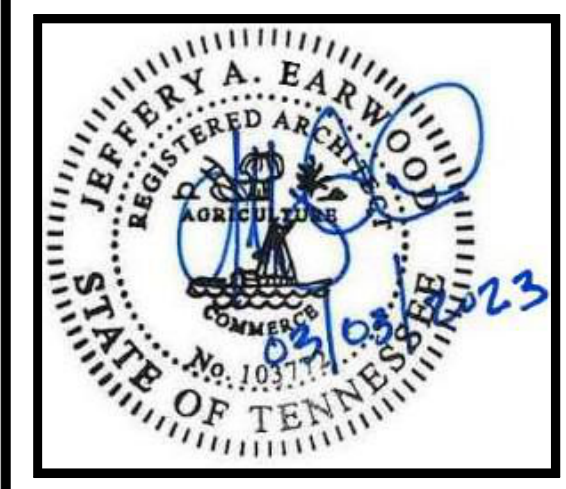
3 NOT USED

KEYNOTES - EXTERIOR	
E1	BRICK 1 - GLEN-GERY RAVENNA - MODULAR SIZE - ONE-HALF BOND
E2	BRICK 1 - SOLDIER COURSE
E3	CALCIUM SILICATE MANUFACTURED BUILDING STONE 1 - HARRIS CRAFT INTERNATIONAL ROCKED MAGNOLIA
E4	CAST STONE
E5	CAST STONE CORNICE
E6	CAST STONE KEYSTONE, PROFILE 5
E7	FIBERGLASS-FRAMED FIXED WINDOW
E8	FIBERGLASS-FRAMED SINGLE-HUNG WINDOW
E9	ALUMINUM STOREFRONT
E10	EXTRUDED ALUMINUM CANOPY WITH INTEGRAL DRAINAGE
E11	LOUVER - COORDINATE WITH MECHANICAL
E12	EXTERIOR LIGHTS - COORDINATE WITH ELECTRICAL
E13	PREFABRICATED EXTRUDED ALUMINUM COPING
E14	PIPE BOLLARD - COORDINATE WITH CIVIL
E15	MASONRY EXPANSION JOINT
E16	SCUPPER AND DOWNSPOUT
E17	ROOF MEMBRANE
E18	ROOF LADDER
E19	ALUMINUM STOREFRONT MUNTIN (CENTERED IN BOTH DIRECTIONS)

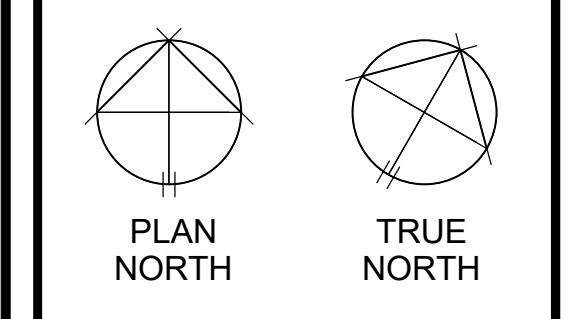


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**TOWN OF NOLENSVILLE
FIRE STATION #1**
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



REVISIONS	

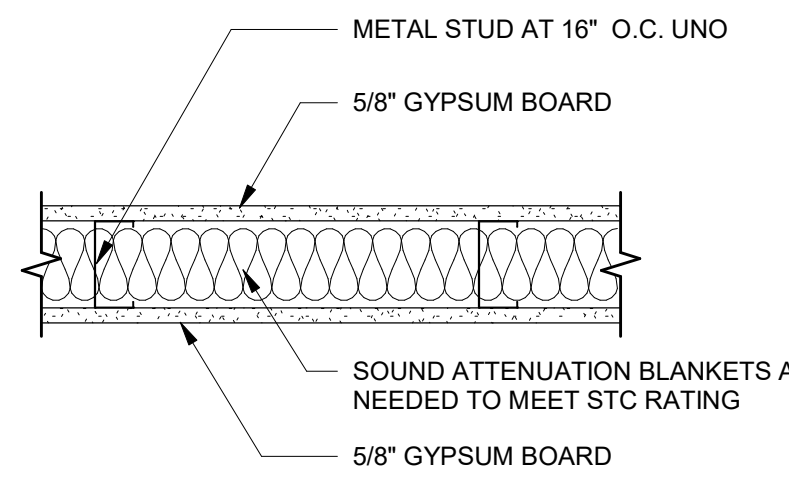
DR. BY	JT
CK. BY	JE, LS
PROJ. NO.	A01122
DATE	03/03/23

MOCK-UP WALL

G101

INTERIOR PARTITION DETAILS

0A
FIRE RATING:
NON-RATED
STC: 45 MINIMUM

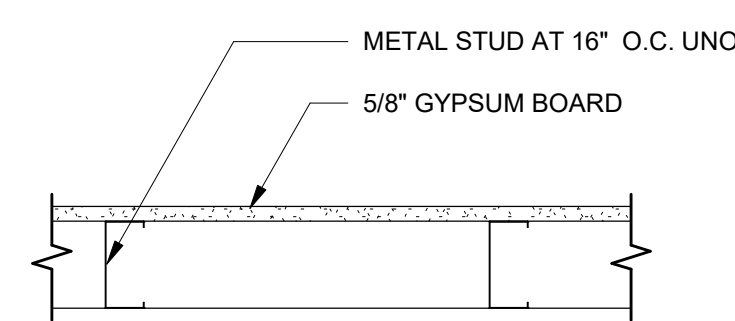


NOTE: REFER TO INTERIOR PARTITION DESIGNATION GUIDE FOR STUD SIZE AND WALL MODIFICATION IDENTIFICATION.

0V
FIRE RATING:
NON-RATED

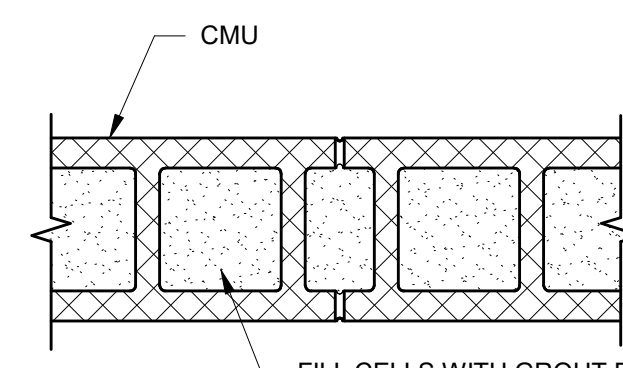
9A
FIRE RATING:
1/2 HR FIRE
BARRIER
ULF# U407
HWF: HW-D-0024
STC: 45 MINIMUM

0Y
FIRE RATING:
NON-RATED



NOTE: REFER TO INTERIOR PARTITION DESIGNATION GUIDE FOR STUD SIZE AND WALL MODIFICATION IDENTIFICATION.

0L
FIRE RATING:
NON-RATED



NOTE: REFER TO INTERIOR PARTITION DESIGNATION GUIDE FOR BLOCK SIZE AND WALL MODIFICATION IDENTIFICATION.

0M
FIRE RATING:
NON-RATED
STC: 55 MIN

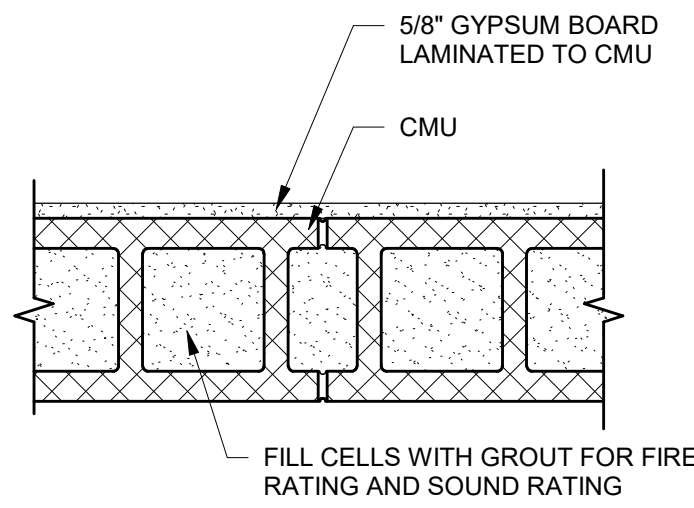
1M
FIRE RATING:
1 HR FIRE
BARRIER
ULF# U905
M1: RATED CMU
TO METAL DECK
STC: 55 MIN

9M
FIRE RATING:
1/2 HR FIRE
PARTITION
M1: RATED CMU
TO METAL DECK
STC: 55 MIN

NOTE: COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY FOR EMBEDDED CONDUIT AND WALL PENETRATIONS PRIOR TO GROUTING SOLID.

9N

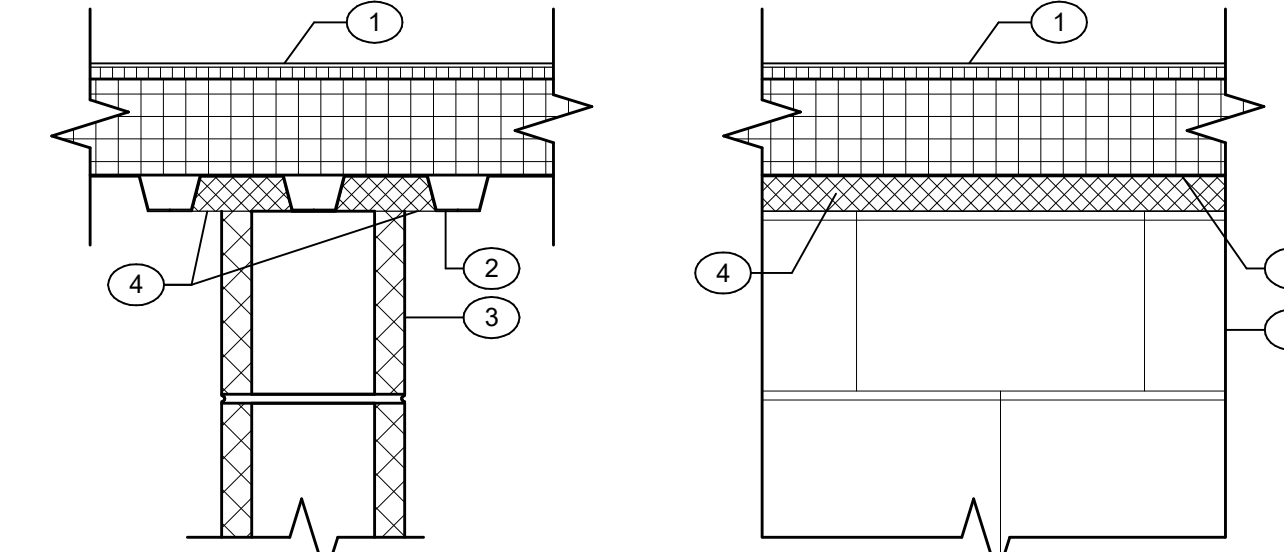
FIRE RATING:
1/2 HR FIRE
PARTITION
M1: RATED CMU
TO METAL DECK
STC: 55 MIN



NOTE: REFER TO INTERIOR PARTITION DESIGNATION GUIDE FOR BLOCK SIZE AND WALL MODIFICATION IDENTIFICATION.

NOTE: COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY FOR EMBEDDED CONDUIT AND WALL PENETRATIONS PRIOR TO GROUTING SOLID.

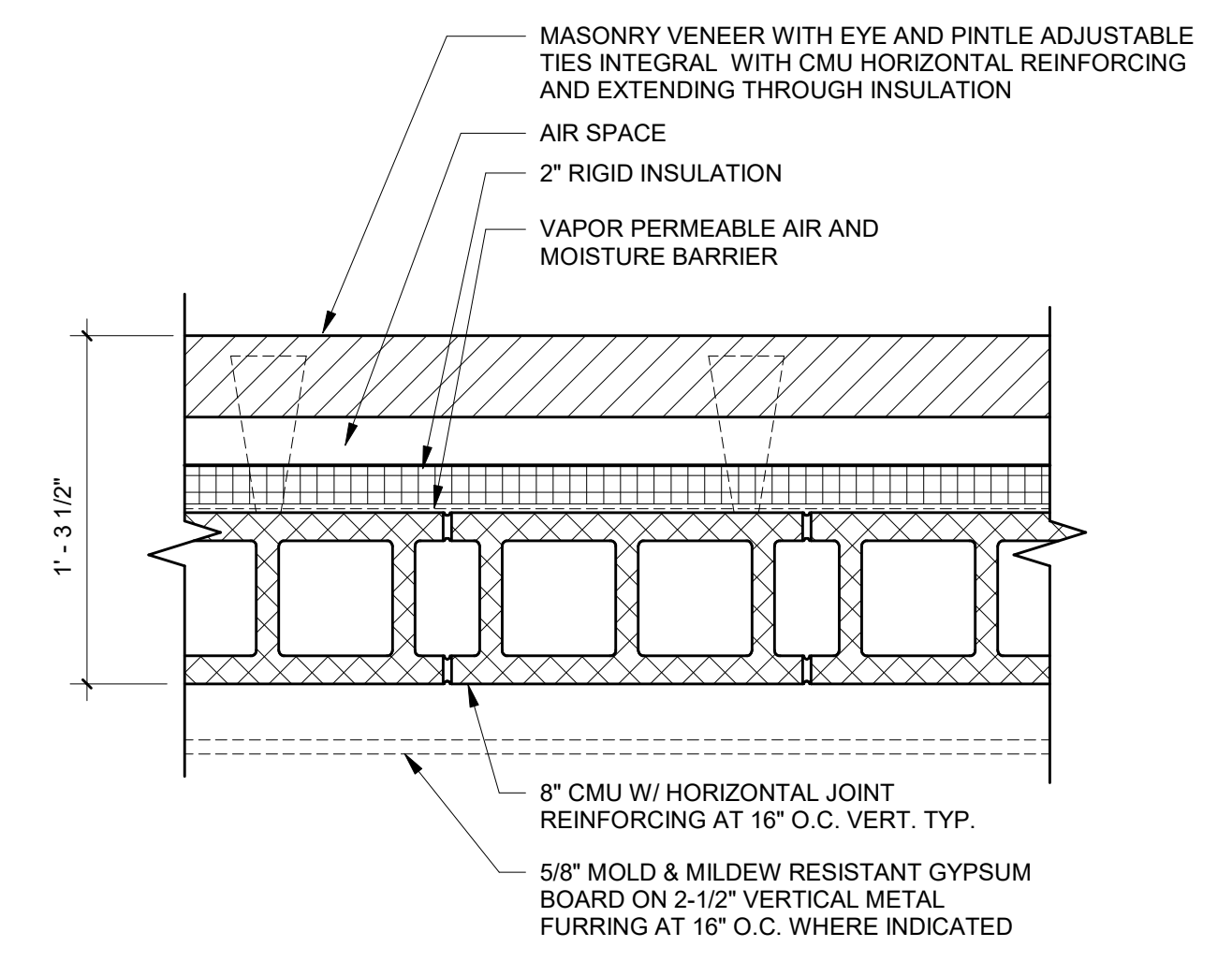
MODIFIER DETAILS



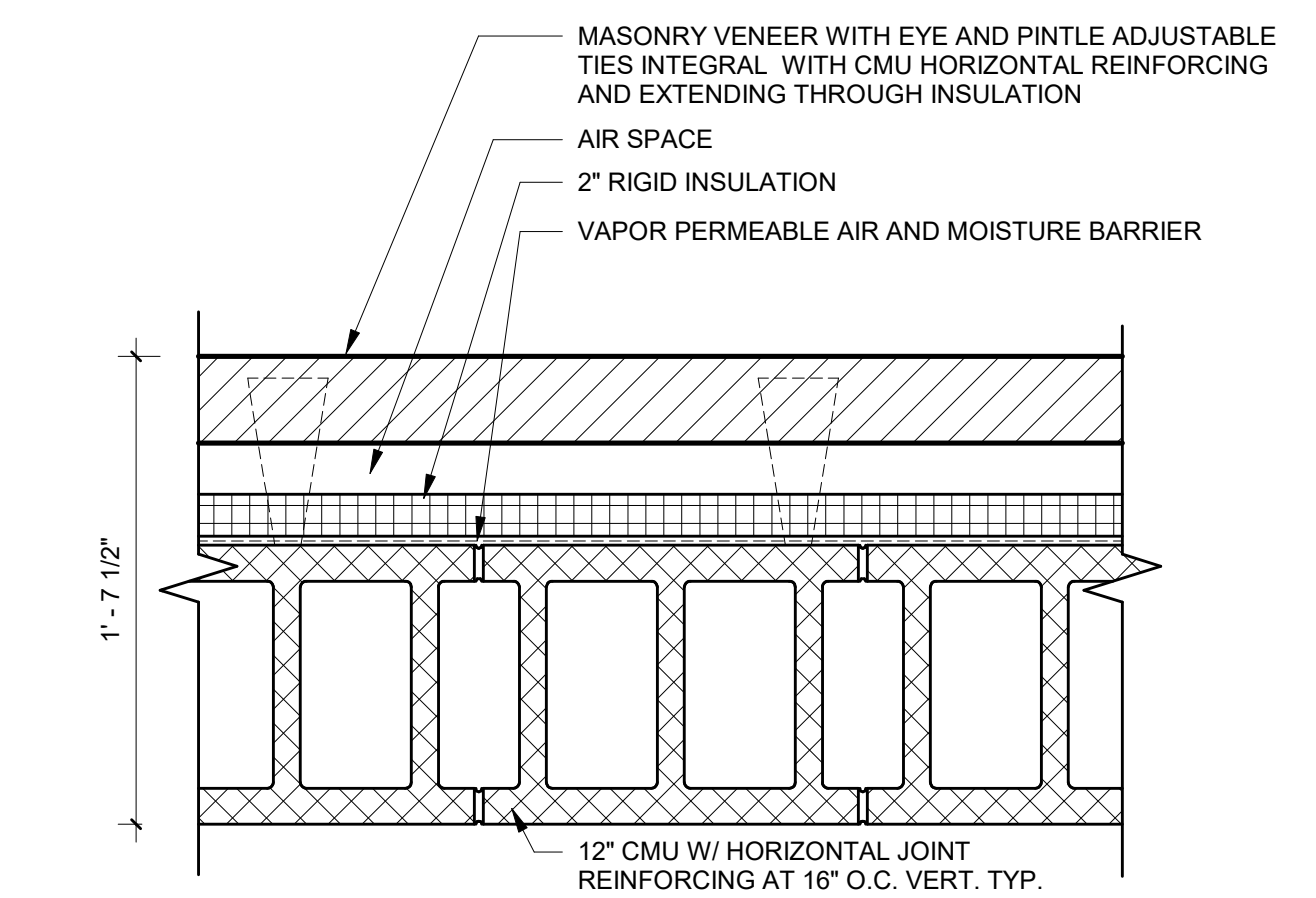
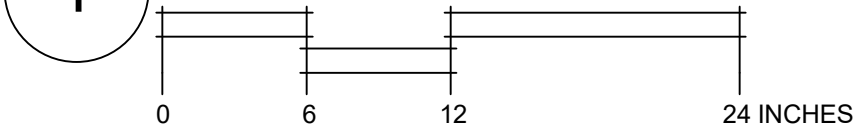
- ROOF ASSEMBLY - METAL DECK ROOF ASSEMBLY, SEE DETAIL 1 / A350 FOR DETAILS.
- 1-1/2" METAL DECK - SEE STRUCTURAL FOR TYPE, DIRECTION AND ATTACHMENTS
- WALL ASSEMBLY - DESIGN NO. U905 CMU WALL - SEE ASSEMBLY DETAILS ON G161 AND PARTITION TYPES DETAILS
- JOINT SYSTEM - MAX SEPARATION BETWEEN BOTTOM OF FLOOR AND TOP OF WALL IS 1 INCH. THE JOINT SYSTEM CONSISTS OF A FORMING MATERIAL AND A FILL MATERIAL IN THE FLUTES OF THE STEEL DECK AS FOLLOWS:
 - PACKING MATERIAL - MIN 4-1/2" THICKNESS OF MIN 4.0 PCF. MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO FLUTES OF THE STEEL DECK AND BETWEEN THE TOP OF THE WALLBOARD AND BOTTOM OF THE STEEL DECK AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM EACH SURFACE OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

M1 RATED CMU TO METAL DECK

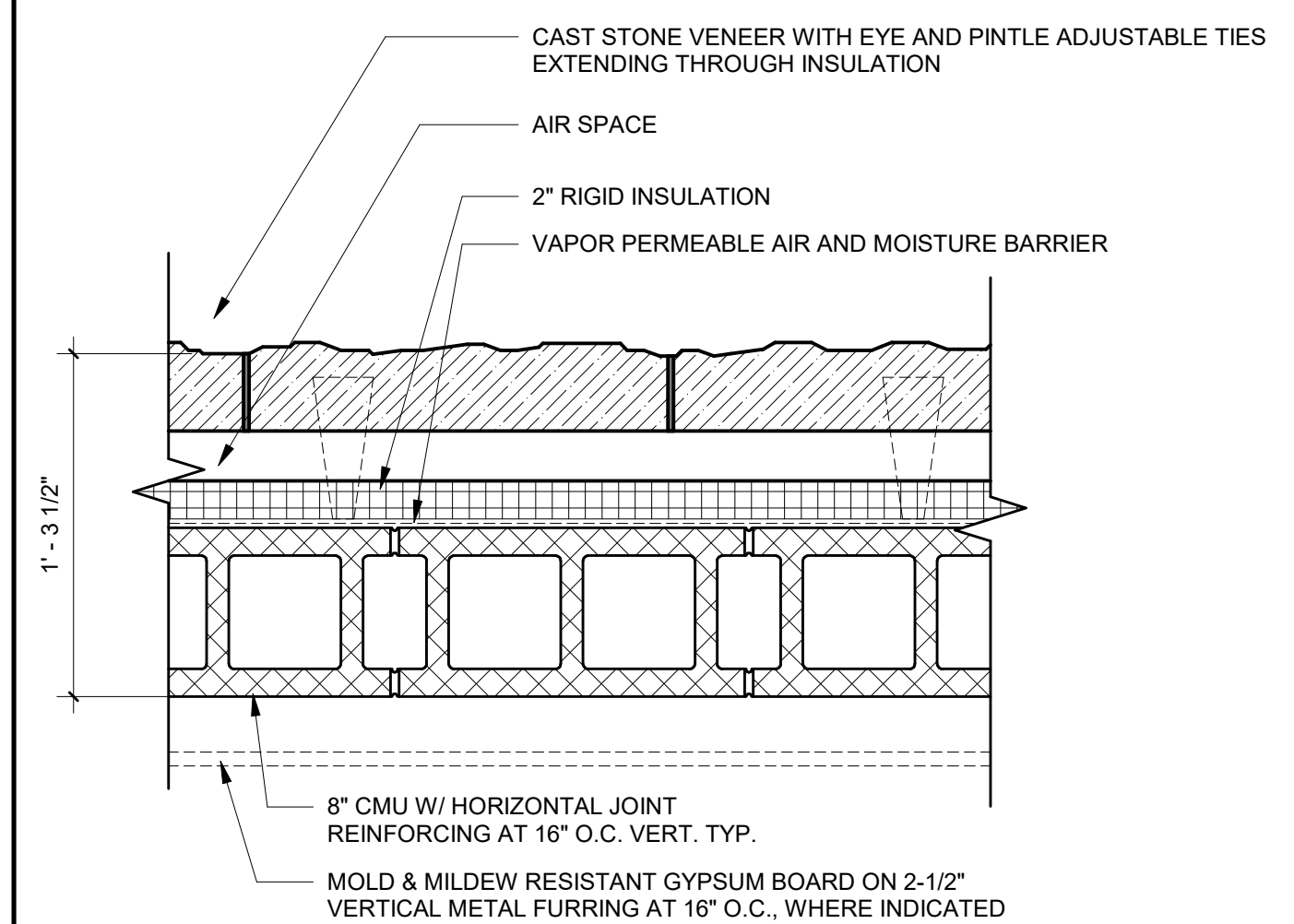
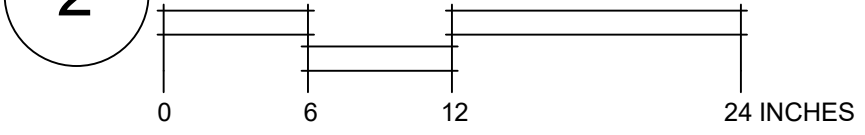
EXTERIOR DETAILS



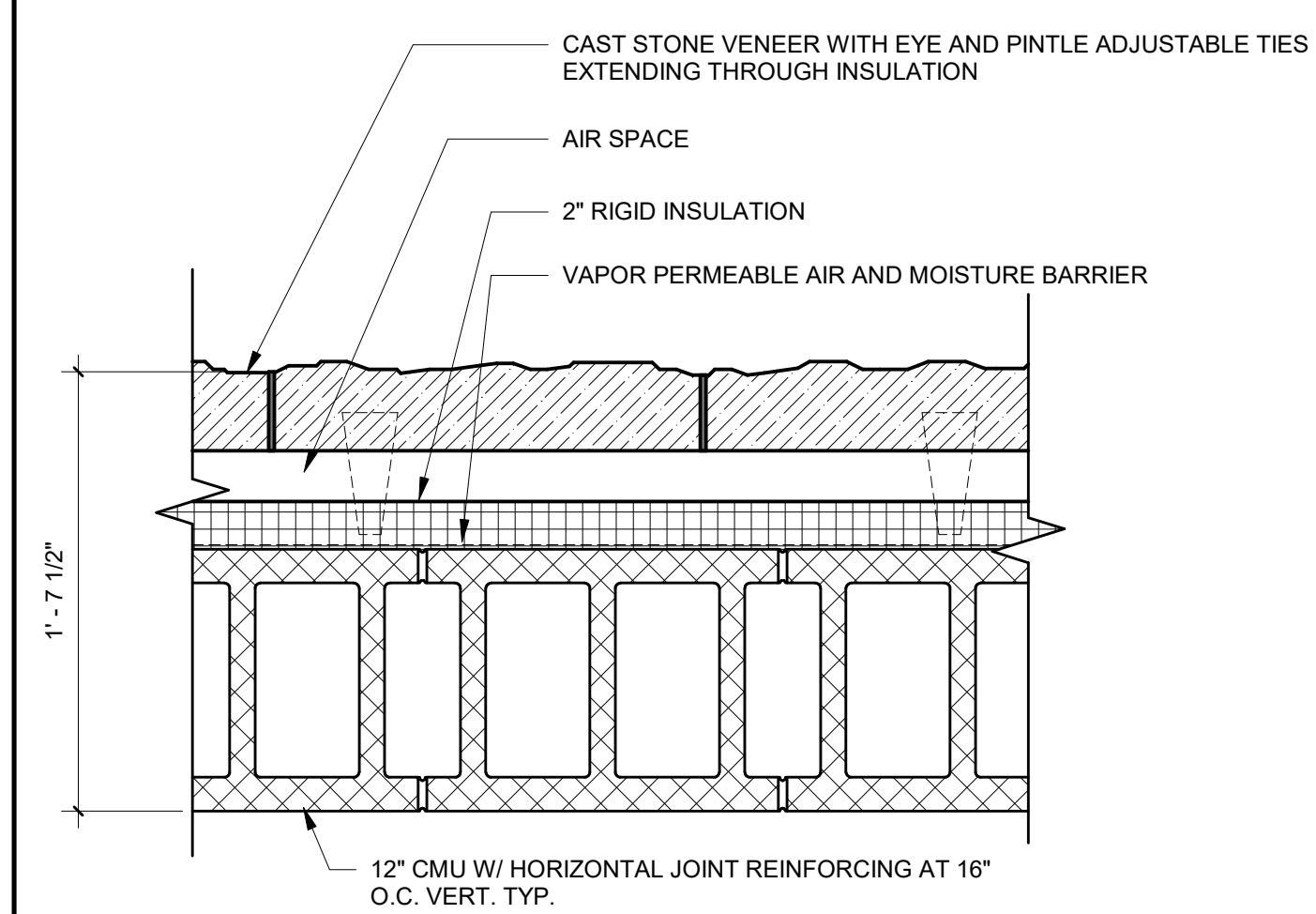
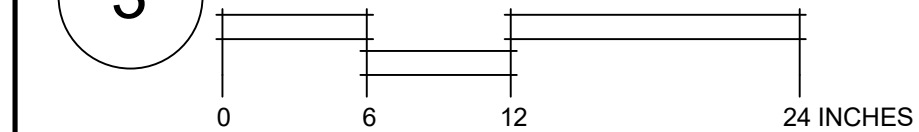
1 BRICK VENEER ON 8" CMU



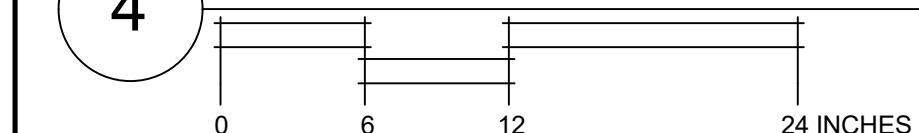
2 BRICK VENEER ON 12" CMU



3 CAST STONE VENEER ON 8" CMU

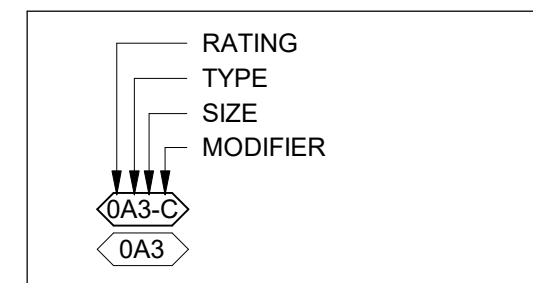


4 CAST STONE VENEER ON 12" CMU



INTERIOR PARTITION DESIGNATION GUIDE

0	A	3	C
RATING	PARTITION TYPE	SIZE	MODIFIER
0	NON-RATED	7/8" HAT CHANNEL	A SUBSTITUTE ABUSE-RESISTANT GYPSUM BOARD FOR OUTSIDE LAYER OF ASSEMBLY, BOTH SIDES.
1	1 HOUR FIRE BARRIER	1 1/8" METAL STUD	B DENOTES LOAD-BEARING CMU WALL.
2	2 HOUR FIRE BARRIER	2 1/2" METAL STUD	C EXTEND FINISH TO 4" ABOVE ADJACENT CEILING, EXTEND STUD TO STRUCTURE AND BRACE AT 48" O.C. SEE MODIFICATION DETAIL ON SHEET G150.
3	3 HOUR FIRE BARRIER	3 5/8" METAL STUD	D EXTEND FINISH TO 6" ABOVE ADJACENT CEILING, EXTEND STUD TO STRUCTURE AND BRACE AT 48" O.C. SOUND ATTENUATION BLANKETS INSTALLED OVER FINISHED CEILING. SEE MODIFICATION DETAIL ON SHEET G150.
4	1 HOUR FIRE AND SMOKE BARRIER	4 4" C-H STUD OR 3 5/8" (4" NOM.) CMU	E FINISH TO TERMINATE AT UNDERSIDE OF FINISHED CEILING. SOUND ATTENUATION BLANKETS INSTALLED OVER FINISHED CEILING. SEE MODIFICATION DETAIL ON SHEET G150.
5	2 HOUR FIRE AND SMOKE BARRIER	6 6" METAL STUD OR 5 5/8" (6" NOM.) CMU	I SUBSTITUTE IMPACT-RESISTANT GYPSUM BOARD FOR OUTSIDE LAYER OF ASSEMBLY, BOTH SIDES.
6	3 HOUR FIRE AND SMOKE BARRIER	8 8" METAL STUD OR 7 5/8" (8" NOM.) CMU	L SUBSTITUTE LEAD-LINED GYPSUM BOARD FOR OUTSIDE LAYER OF ASSEMBLY, BOTH SIDES.
7	SMOKE PARTITION	10 10" METAL STUD OR 9 5/8" (10" NOM.) CMU	P PARTIAL HEIGHT WALL, SEE INTERIOR ELEVATIONS FOR HEIGHT.
8	SMOKE BARRIER	12 12" METAL STUD OR 11 5/8" (12" NOM.) CMU	T THERMAL BARRIER PARTITION, FILL THICKNESS WITH BATT INSULATION.
9	1/2 HOUR FIRE PARTITION		
	K SOUND PARTITION - 45 STC MINIMUM, BULLET RESISTANT		
	L MASONRY WALL		
	M MASONRY SOUND PARTITION		
	N MASONRY SOUND PARTITION, ONE LAYER GYPSUM BOARD, ONE SIDE ONLY		
	P MASONRY SOUND PARTITION, ONE LAYER GYPSUM BOARD, BOTH SIDES		
	S SHAFT WALL		
	U ONE LAYER GYPSUM BOARD ON 3/4" PLYWOOD, ONE SIDE		
	V ONE LAYER GYPSUM BOARD, BOTH SIDES		
	W TWO LAYERS GYPSUM BOARD, BOTH SIDES		
	X TWO LAYERS GYPSUM BOARD, ONE SIDE, ONE LAYER GYP BD OTHER SIDE		
	Y ONE LAYER GYPSUM BOARD, ONE SIDE ONLY		
	Z TWO LAYERS GYPSUM BOARD, ONE SIDE ONLY		



WALL TAG KEY

PARTITION GENERAL NOTES

- PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF THE PARTITION.
- OPENINGS IN RATED WALL, FLOOR, CEILING OR ROOF ASSEMBLIES SHALL BE SEALED WITH PENETRATION FIRESTOPPING SYSTEMS MEETING OR EXCEEDING THE REQUIRED FIRE RESISTIVE RATINGS.
- MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS AND BOXES RECESSED IN A FIRE RATED WALL, FLOOR AND CEILING ASSEMBLIES.
- PROVIDE STIFFENERS, BRACING, BACKING PLATES AND BLOCKING REQUIRED FOR SECURE INSTALLATION OF TOILET PARTITIONS, DOORS AND DOOR HARDWARE INCLUDING WALL-MOUNTED DOOR STOPS, HANDRAILS, WALL MOUNTED SHELVES, OPERABLE PARTITIONS, MISCELLANEOUS EQUIPMENT, ARTWORK AND MECHANICAL/ELECTRICAL EQUIPMENT.
- FULLY LAY OUT STRUCTURAL GRID, WALL AND OPENING PLACEMENT PRIOR TO START OF PARTITION CONSTRUCTION. VERIFY THAT DIMENSIONS ARE CONSISTENT WITH REQUIREMENTS INDICATED IN DOCUMENTS. REFER ANY DIMENSIONAL INCONSISTENCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF PARTITION CONSTRUCTION.
- FIRE AND SMOKE BARRIERS AND PARTITIONS: STENCIL ABOVE CEILING ON BOTH SIDES OF WALL AND IN CONCEALED SPACES WITH MINIMUM 3 INCH HIGH LETTERS WITH A MINIMUM 3/8" STROKE IN A CONTRASTING COLOR AT INTERVALS NOT EXCEEDING 10'-0" O.C. MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION. EXAMPLE: "ONE HOUR FIRE BARRIER - PROTECT ALL OPENINGS"
- ALL PARTITIONS TO EXTEND TO UNDERSIDE OF STRUCTURE ABOVE UNLESS NOTED OTHERWISE.
- PANELS APPLIED VERTICAL WITH JOINTS STAGGERED, FINISHED AND PERIMETER SEALED. EXTEND AND SEAL PARTITION TO STRUCTURAL DECK.
- ALL PENETRATIONS IN SOUND WALLS SHALL BE SEALED WITH ACOUSTICAL SEALANT. PENETRATIONS IN FIRE RATED ASSEMBLIES SHALL BE PER AN APPROVED FIRE STOP ASSEMBLY. FIRE RATED ASSEMBLIES TAKE PRIORITY OVER ACOUSTICAL SEALANT REQUIREMENTS.
- UL FIRE RATINGS ARE BASED ON PROPRIETARY SYSTEMS. PARTITIONS ARE DIMENSIONED TO CENTERLINE OF PARTITION/FINISHED FACE. ANY INTERIOR PARTITIONS DIMENSIONED TO FACE OF METAL STUD ARE NOTED "FOS" (FACE OF STUD).
- AT ALL EXTERIOR WALLS THAT ARE FURRED OUT WITH A GYPSUM BOARD ON METAL STUD PARTITION, 3/8" MOLD AND MILDREW RESISTANT GYPSUM BOARD SHOULD BE USED.

WALL LEGEND

NEW CONSTRUCTION

REFER TO THE G150 SERIES SHEETS FOR PARTITION TYPES AND DETAILS

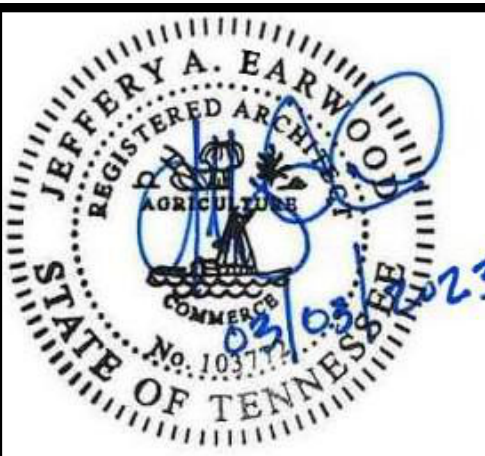
- NON-RATED PARTITION
- NON-RATED SOUND PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR FIRE BARRIER
- NON-RATED CMU PARTITION
- NON-RATED CMU SOUND PARTITION
- 1 HOUR CMU FIRE BARRIER
- 1 HOUR CMU FIRE BARRIER



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Firm Certification: #AA-P000404



TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE

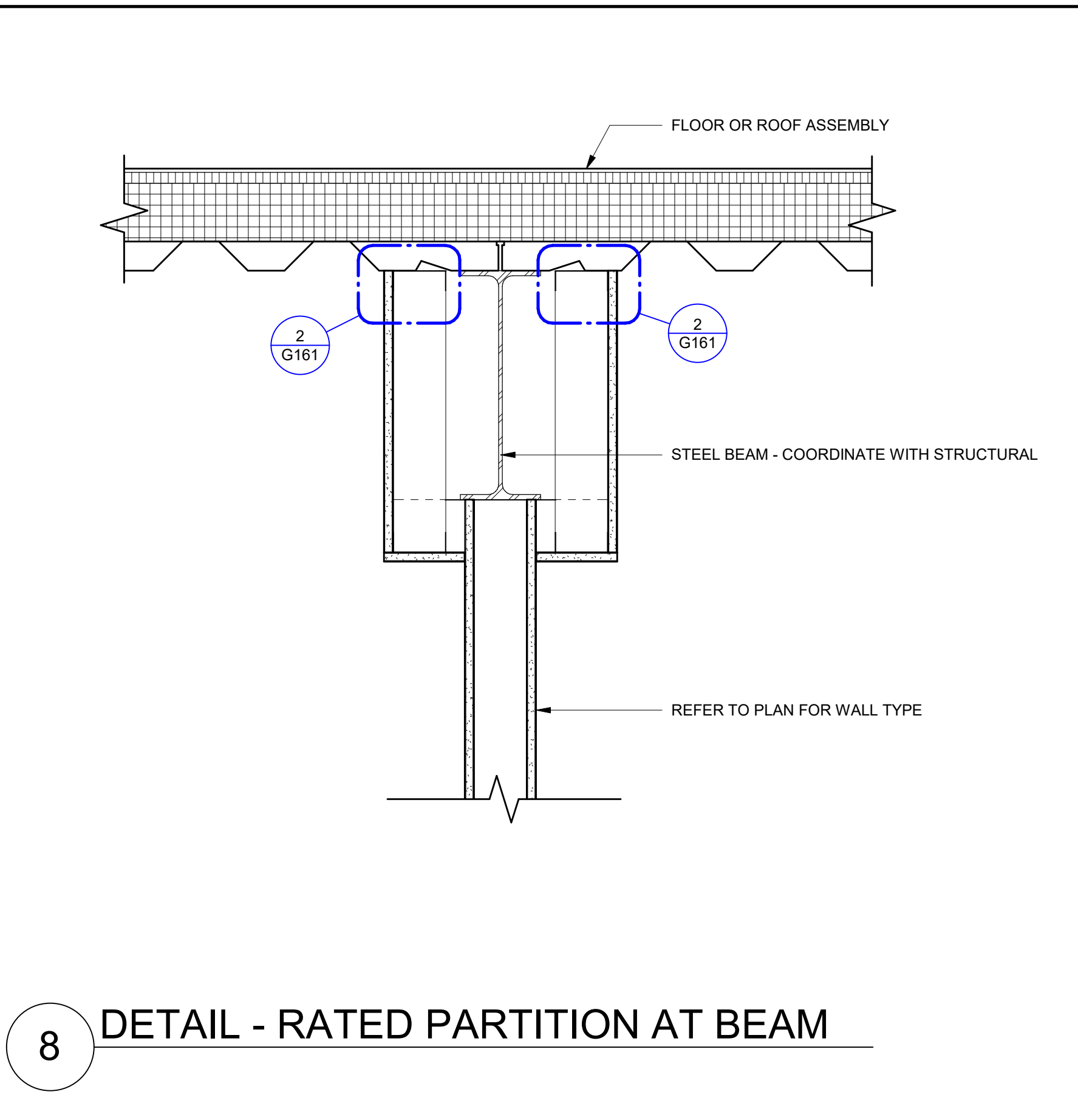
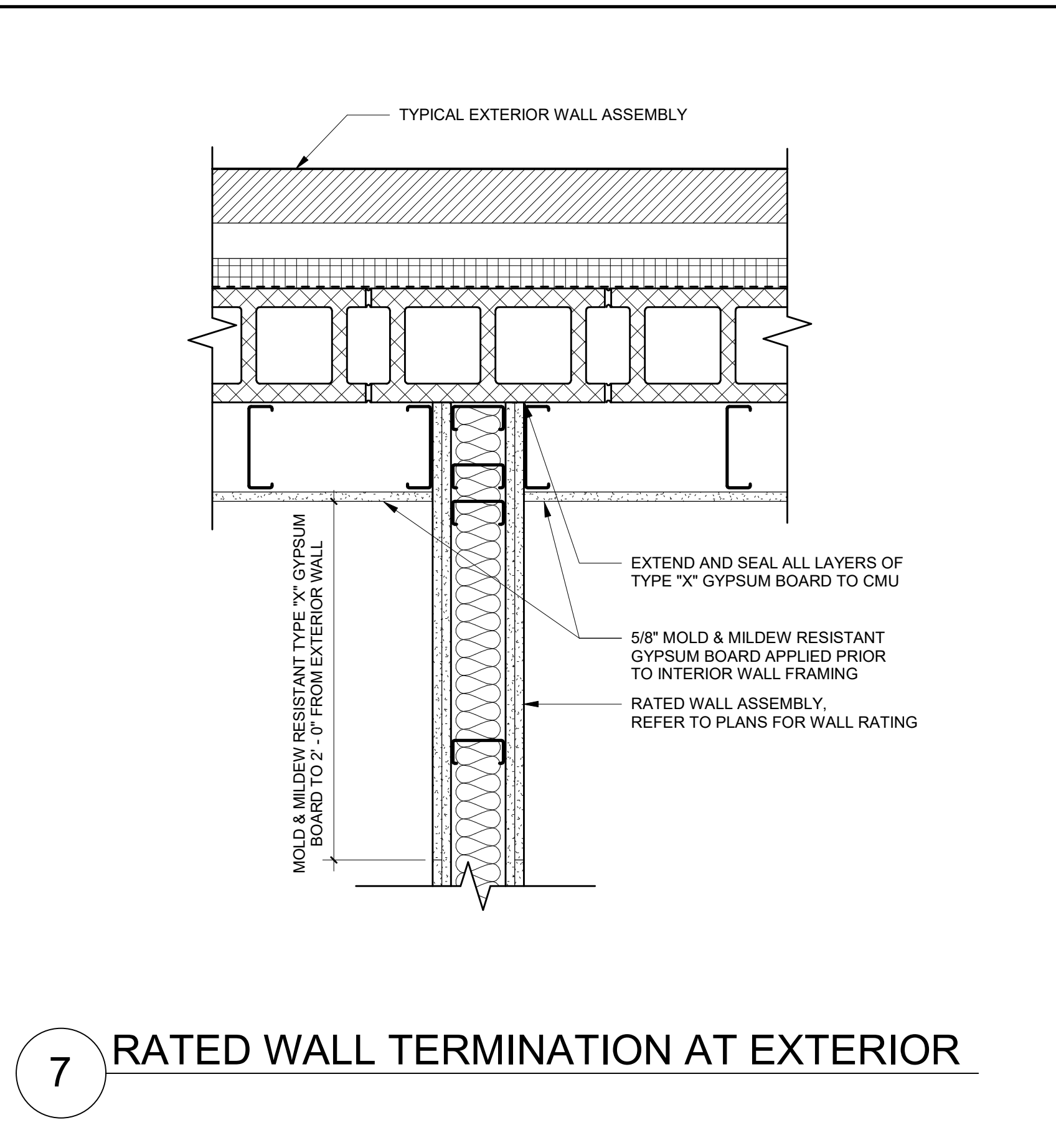
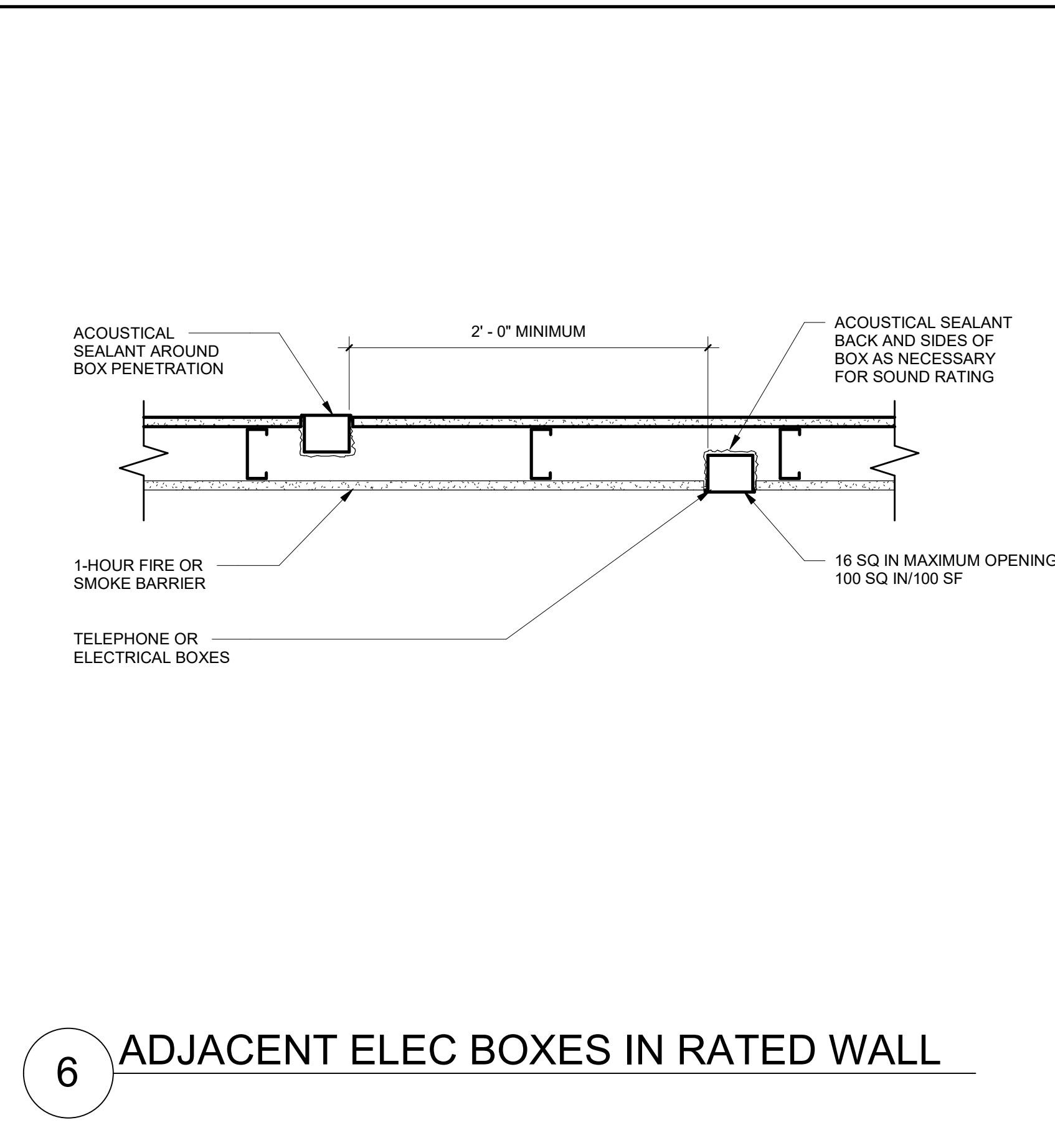
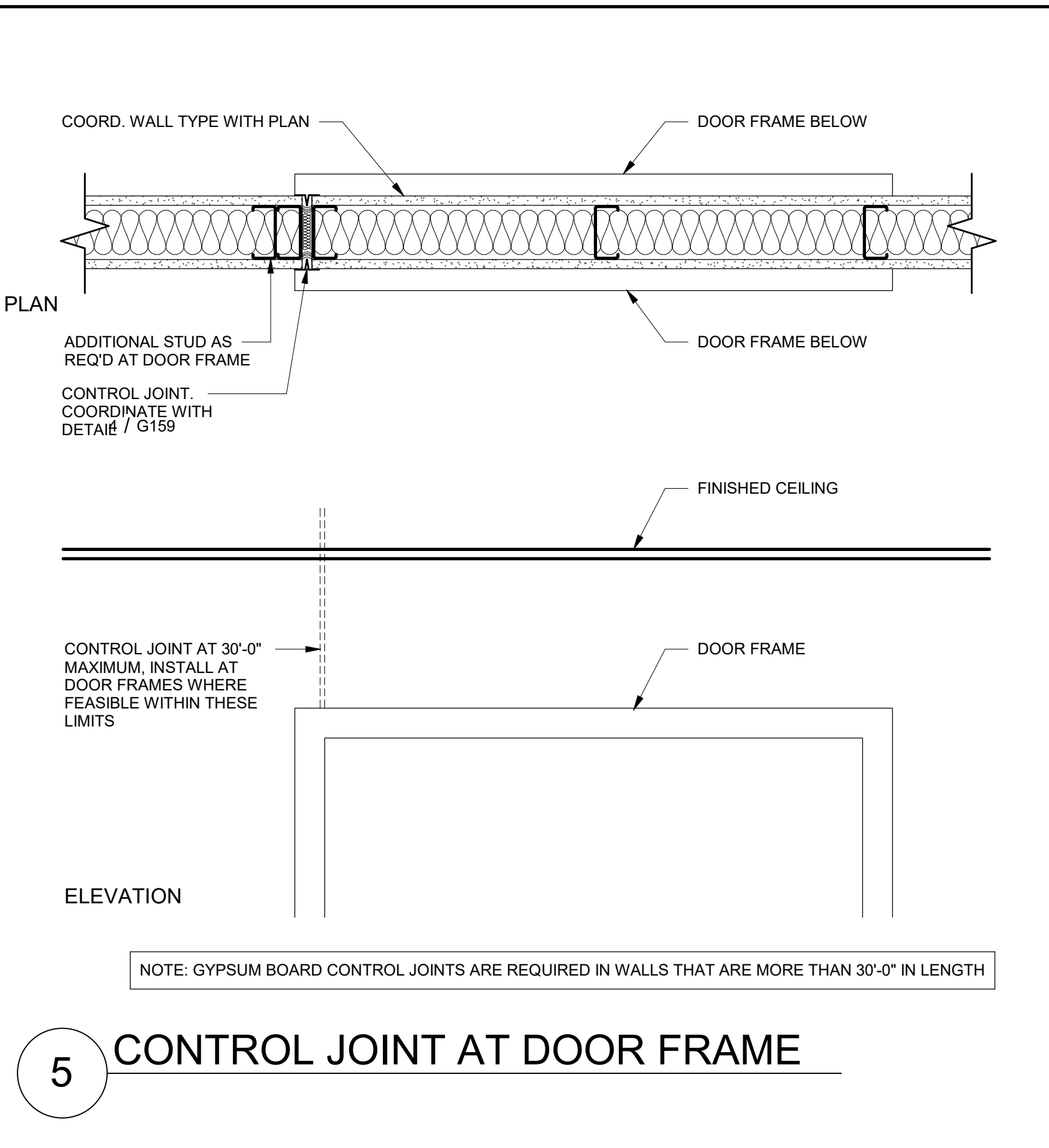
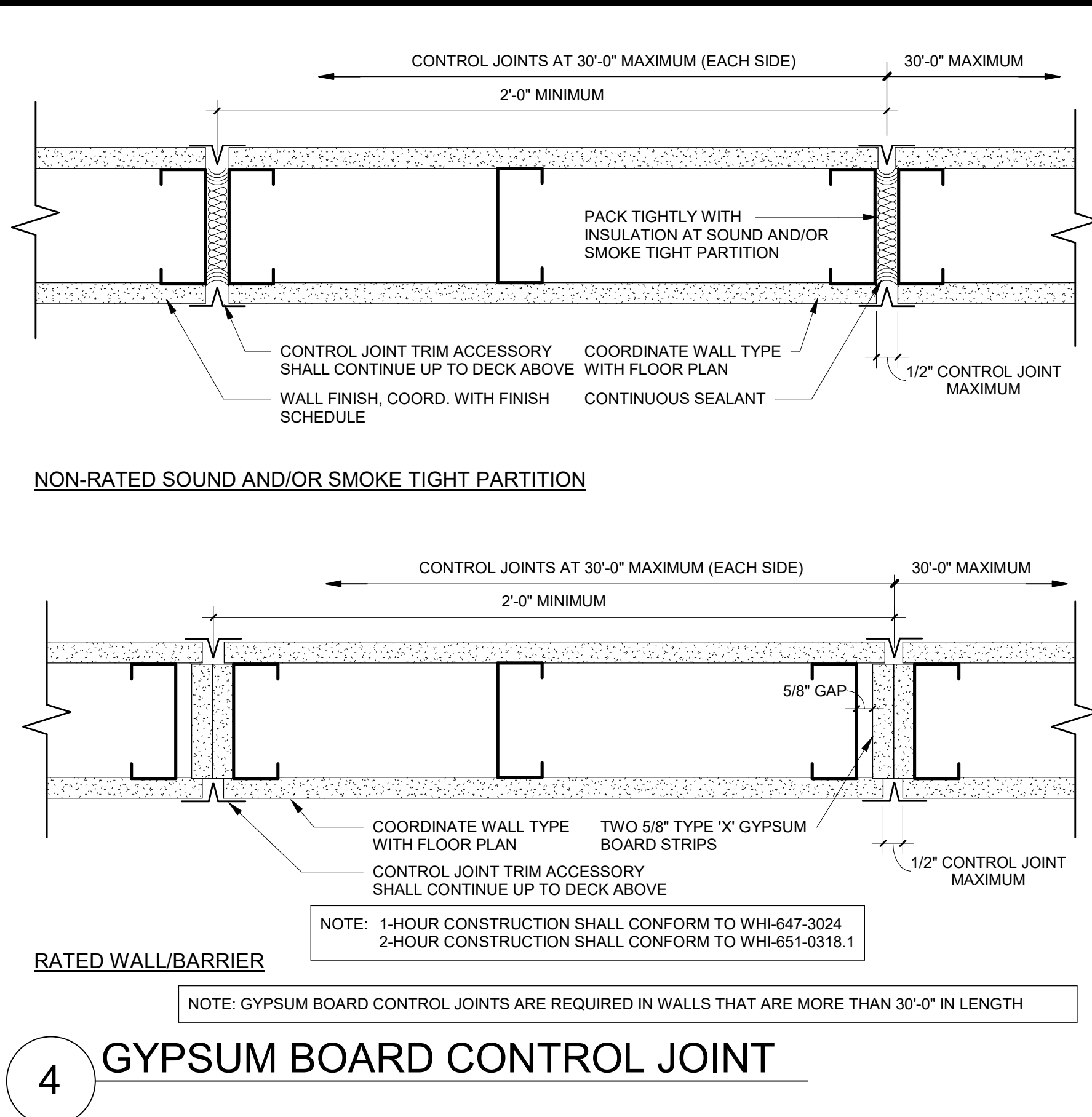
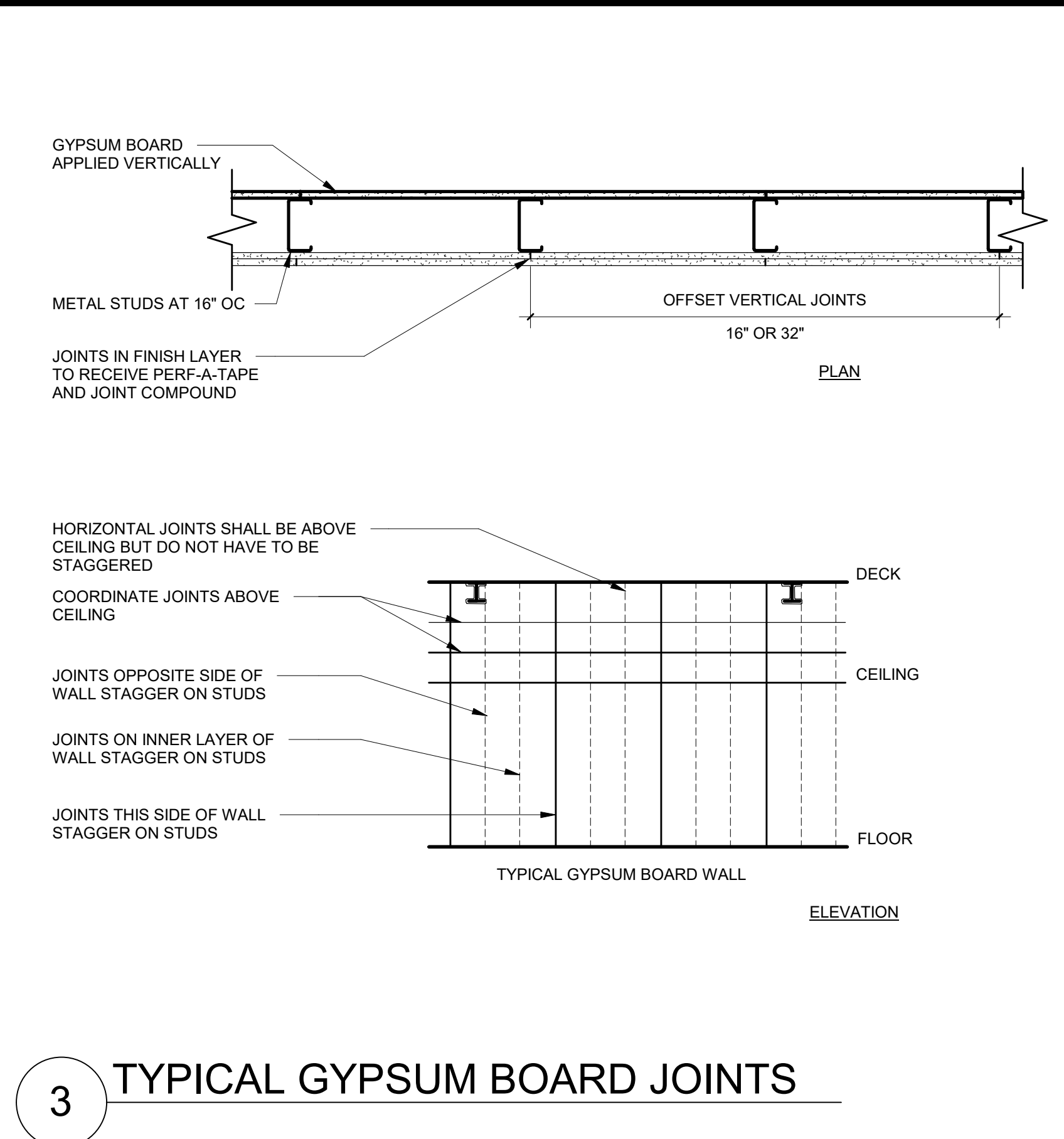
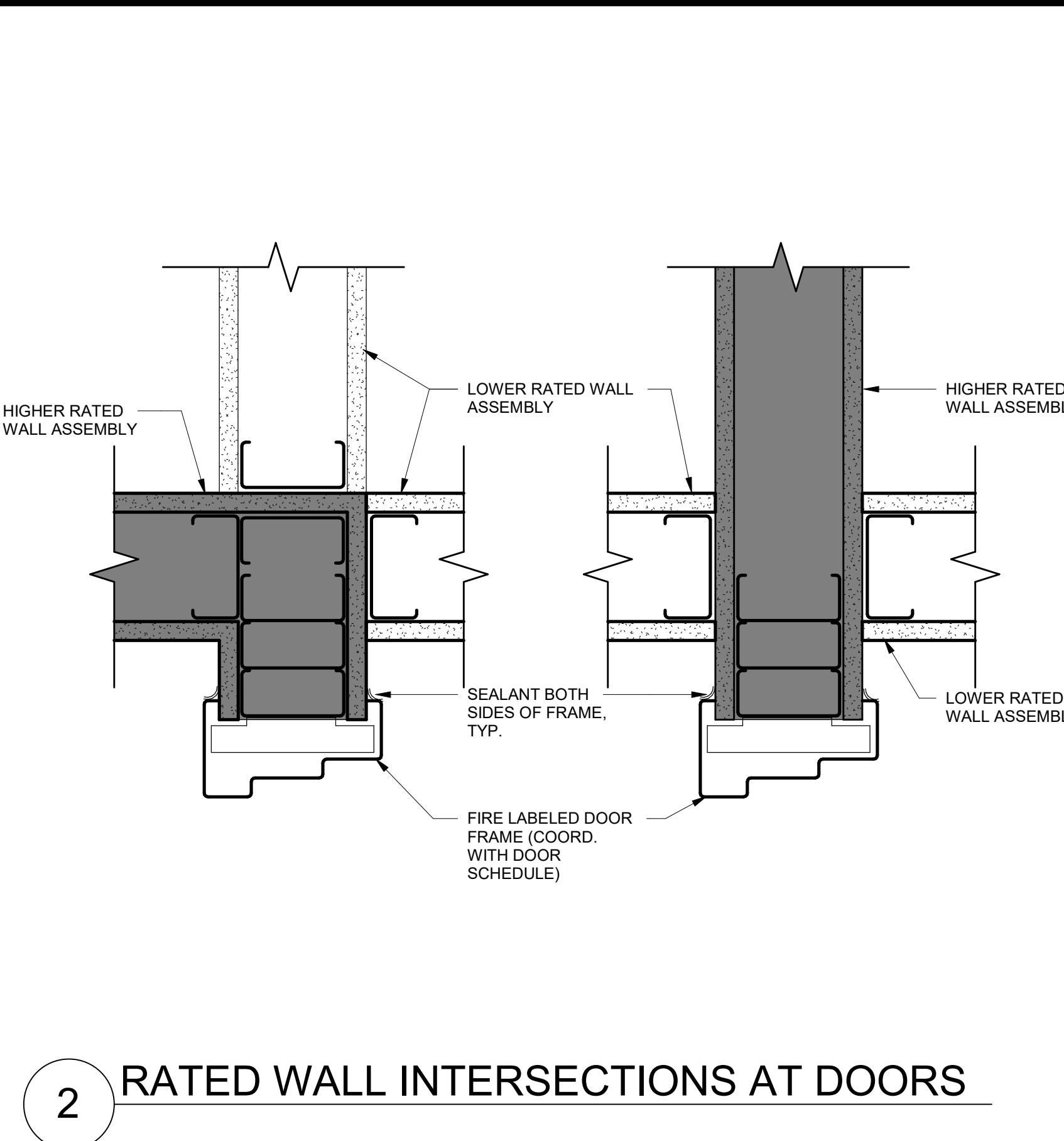
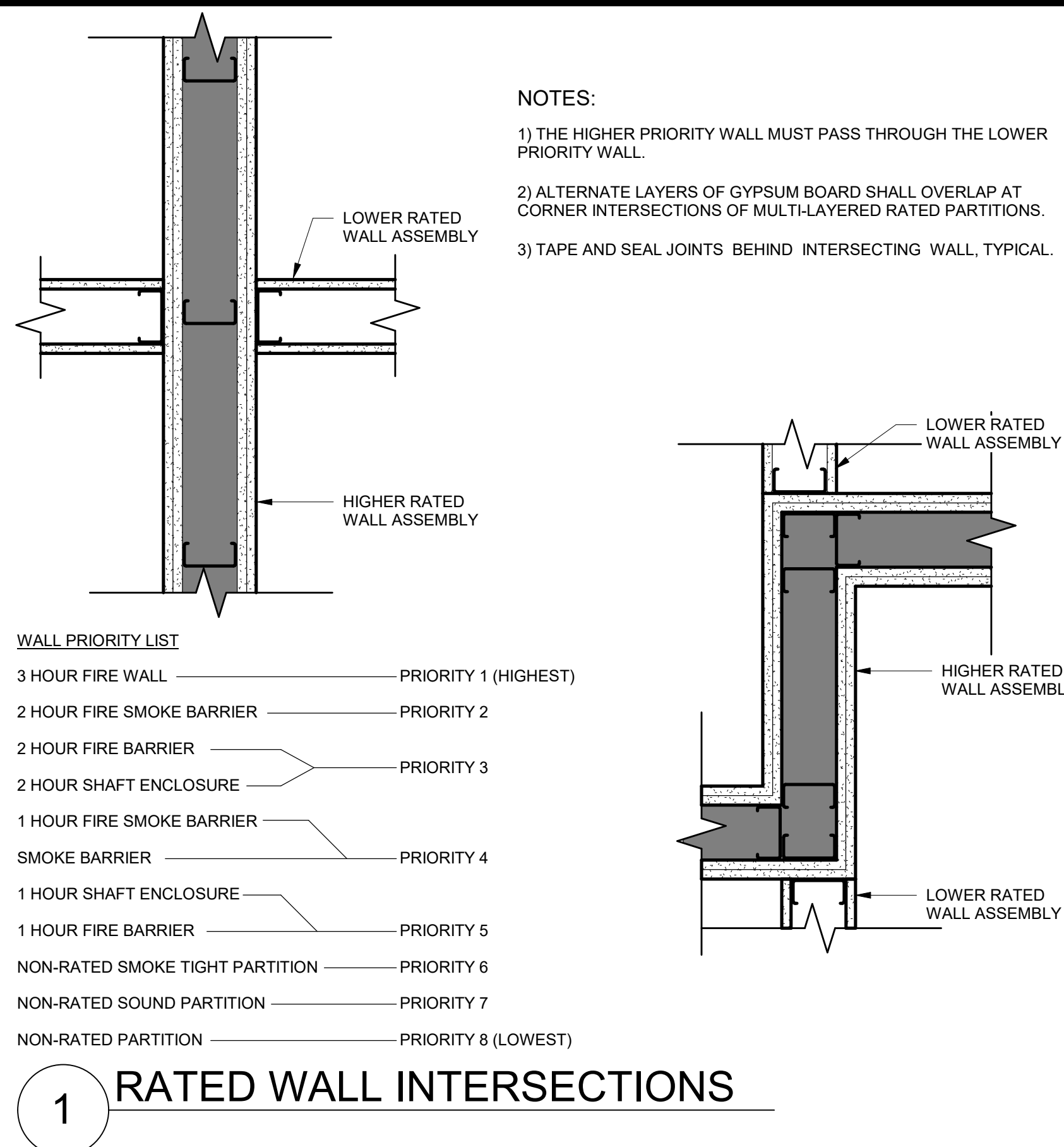
REVISIONS

NO.	DATE	DESCRIPTION

DR. BY SH
CK. BY JE, LS
PROJ. NO. A01122
DATE 03/03/23

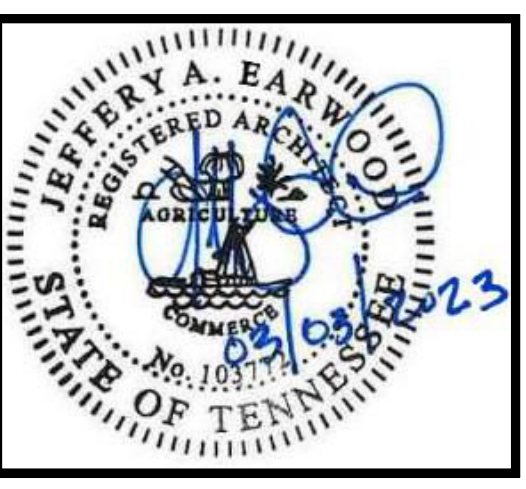
PARTITION TYPES AND DETAILS

G150



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TOWN OF NOLENSVILLE
FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE

REVISIONS	

DR. BY	SH
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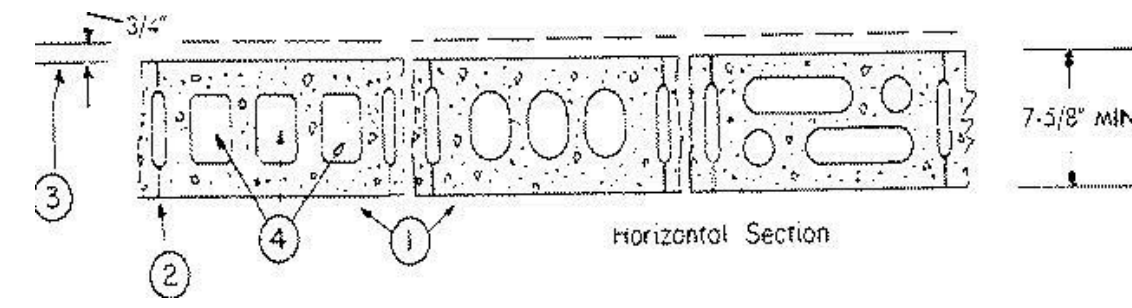
PARTITION ASSEMBLY DETAILS

G159

Fire Resistance Ratings - ANSI/UL 263
Design No. U905
 June 6, 2022
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.

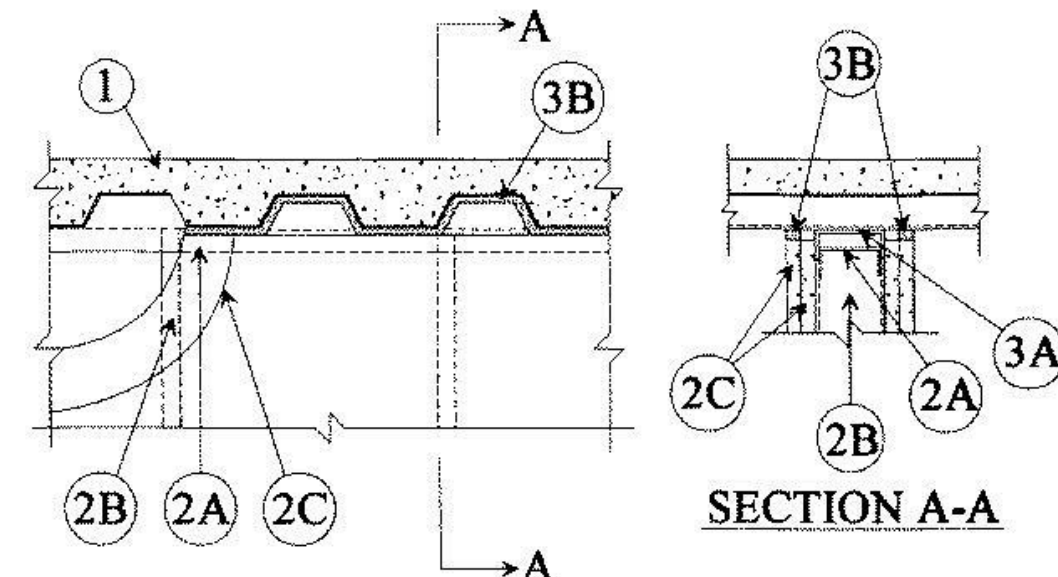


1. Concrete Blocks* — Various designs. Classification D-2 (2 hr). See Concrete Blocks category for list of eligible manufacturers.
 2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned 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 Kin 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 and EnergyShield Ply Pro"
- 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"
- RMX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX ci FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheat-XP", "Thermasheat", "Durasheat", "Thermasheat-S", "Durasheat-S"
- JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"
- SA 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.
- HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NP", "Xci Ply"
- RMX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheat-SF", "ECOBASci", "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.

1 **UL#905**

XHBN - Joint Systems
System No. HW-D-0024
 December 26, 2019
Assembly Ratings — 1 & 2 Hr (See Item 2)
Nominal Joint Width — 3/4 In.
Class II Movement Capabilities — 33% Compression or Extension



1. **Floor Assembly** — The fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **Steel Floor and Form Units*** — Max 3 in. (76 mm) deep galv steel fluted units.
 - B. **Concrete** — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
- 1A. **Roof Assembly** — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly and shall include the following construction features:
 - A. **Steel Roof Deck** — Max 3 in. (76 mm) deep galv steel fluted roof deck.
 - B. **Roof Insulation** — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.
 - C. **Roof Covering** — Hot-mopped or cold-application materials compatible with insulating concrete.
2. **Wall Assembly** — The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual L400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **Steel Floor And Ceiling Runners** — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). When U-shaped deflection channel (Item 3A) is used, ceiling runner installed within the deflection channel with 1 in. (25 mm) gap maintained between the top of ceiling runner and top of deflection channel. When deflection channel is not used, ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors or by welds spaced max 24 in. (610 mm) OC.
 - A1. **Light Gauge Framing** — Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.
 - BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK

- CALIFORNIA EXPANDED METAL PRODUCTS CO — CST
- CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H
- MARINOWARE, DIV OF WARE INDUSTRIES INC — Type SLT
- METAL-LITE INC — The System
- RAM SALES L L C — RAM Slotted Track
- SCAFCO STEEL STUD MANUFACTURING CO
- TELLING INDUSTRIES L L C — True-Action Deflection Track

- A2. **Light Gauge Framing** — Vertical Deflection Ceiling Runner — As an alternate to the ceiling runner in Items 2A, 2A1 or 2A2, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Vertical deflection ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When vertical deflection ceiling runner is used, deflection channel (Item 3A) shall not be used.
 - THE STEEL NETWORK INC — VertTrack VTD362, VTD400, VTD600 and VTD800
 - A3. **Light Gauge Framing** — Notched Ceiling Runner — As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection channel (Item 3A) shall not be used.
 - OLMAR SUPPLY INC — Type SCR
- B. **Studs** — Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height. Studs attached to ceiling runner with sheet metal screws a min of 1/2 to 13 mm (19 mm) below bottom of deflection channel, when deflection channel is used. When deflection channel is not used, studs shall not be secured to ceiling runner. When slotted ceiling runner (Item 2A) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long washer head steel screws at mid-height of slot on each side of wall. When vertical deflection ceiling runner (Item 2A3) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 610 mm (24 in.) OC.

- C. **Gypsum Board** — Gypsum board sheets to be installed to a min total thickness of 5/8 or 1-1/4 in. (16 or 32 mm) on each side of the wall for a 1 or 2 hr fire rated wall, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that the gypsum board is cut to fit the contour of the steel floor units with a nom 3/4 in. (19 mm) gap. The screws attaching the gypsum board to studs at the top of the wall shall be located 1 in. (25 mm) below the bottom of the deflection channel, when deflection channel is used. When deflection channel is not used, the screws attaching the gypsum board to studs at the top of the wall shall be located 1 in. (25 mm) below the bottom of the ceiling runner.

The hourly fire rating of the joint system is dependent on the hourly fire rating of the wall.

3. **Joint System** — Max separation between bottom of floor and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 33 percent compression or extension from its installed width. The joint system consists of an optional deflection channel and a fill material, as follows:

- A. **Deflection Channel** — (Optional) — A nom 3-5/8 in. (92 mm) wide by min 2 in. (51 mm) deep min 24 gauge steel U-shaped channel. Deflection channel installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors or by welds spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1 in. gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.
- B. **Fill, Void or Cavity Material*** — Sealant — Min 5/8 in. (16 mm) thickness of fill material installed on each side of the wall between the top of the gypsum board and all surfaces of the steel floor units. Flush with surface of gypsum board.
- PASSIVE FIRE PROTECTION PARTNERS — 4100NS, 4800DW or 3600EX

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

*Bearing the UL Classification Mark

When the UL Leaf Mark is on the product, or when the word "Environment" is included in the UL Mark, please search the UL Environment database for additional information regarding this product's certification.

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

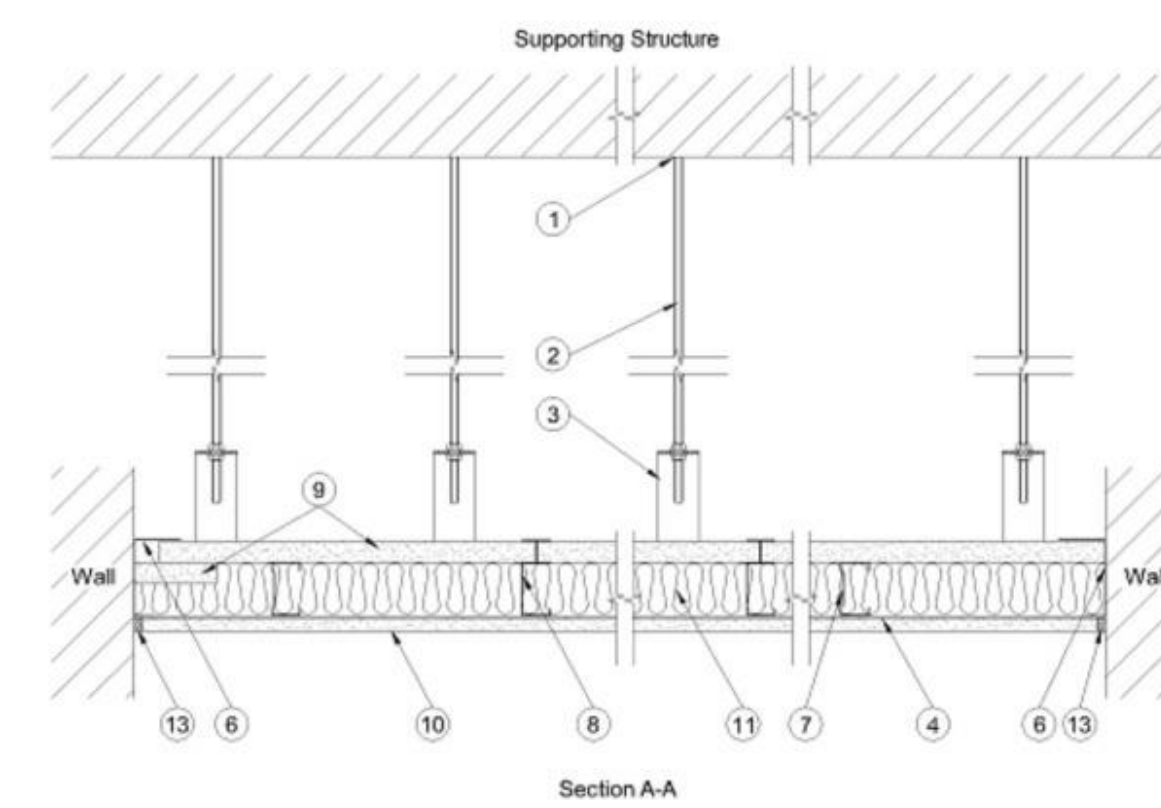
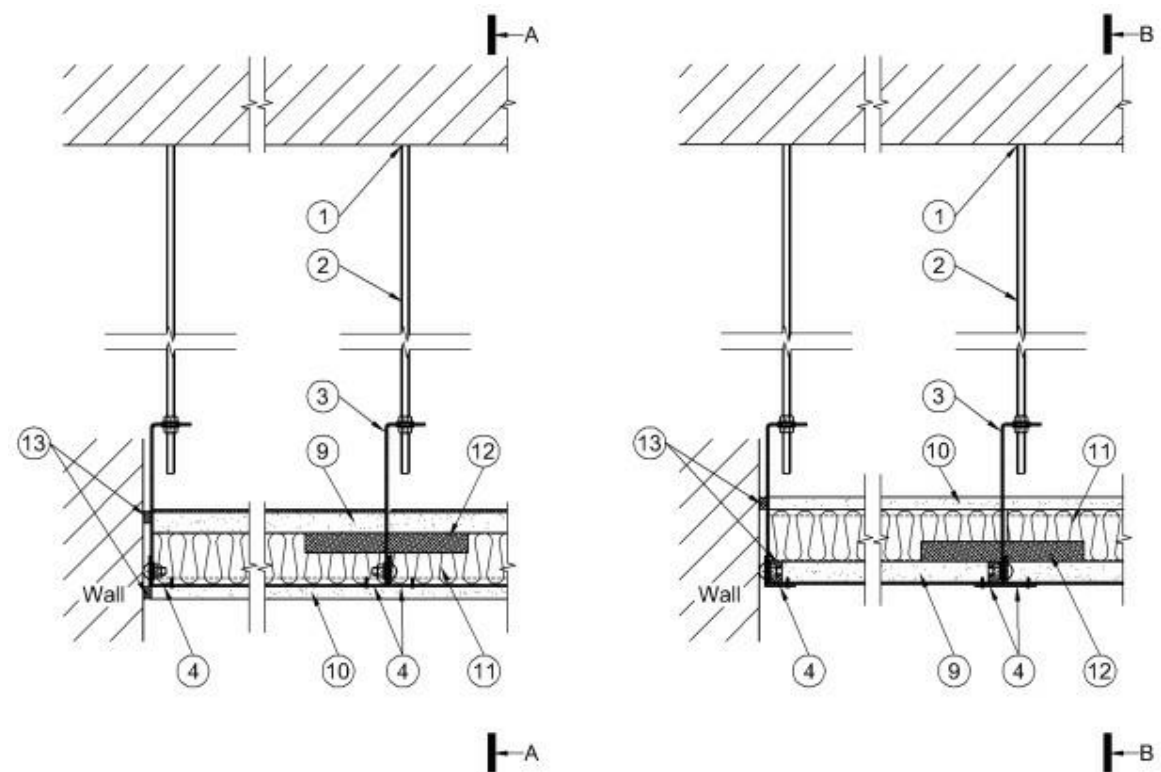
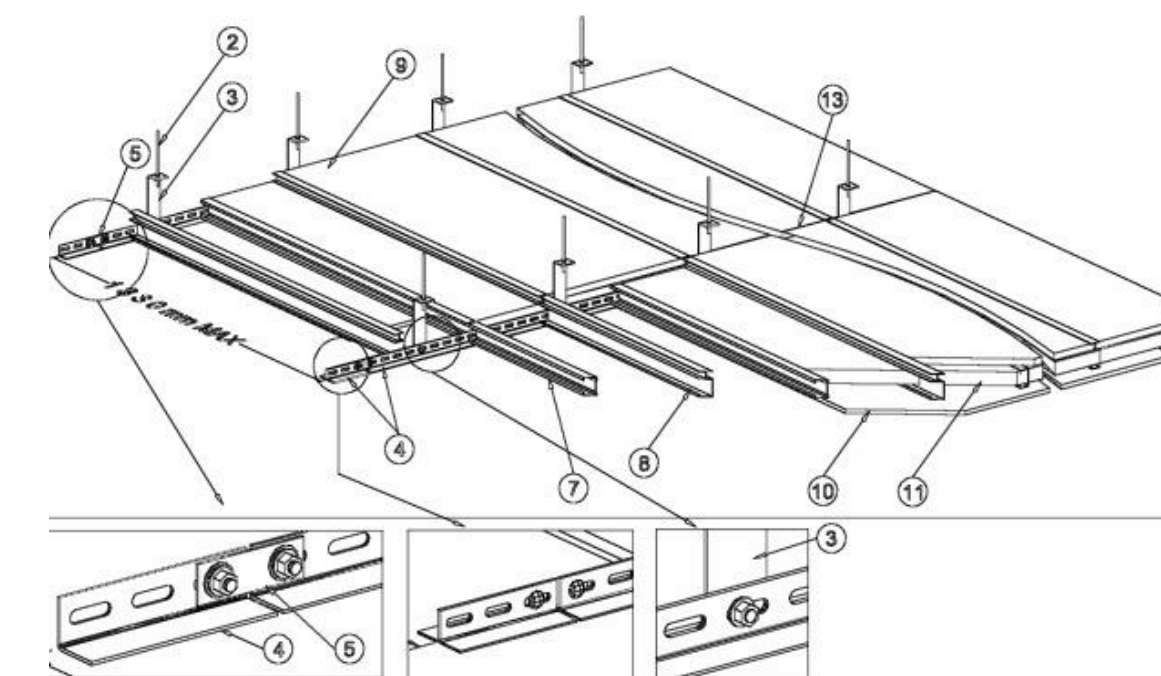
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2 **HW-D-0024 - Joint Systems**

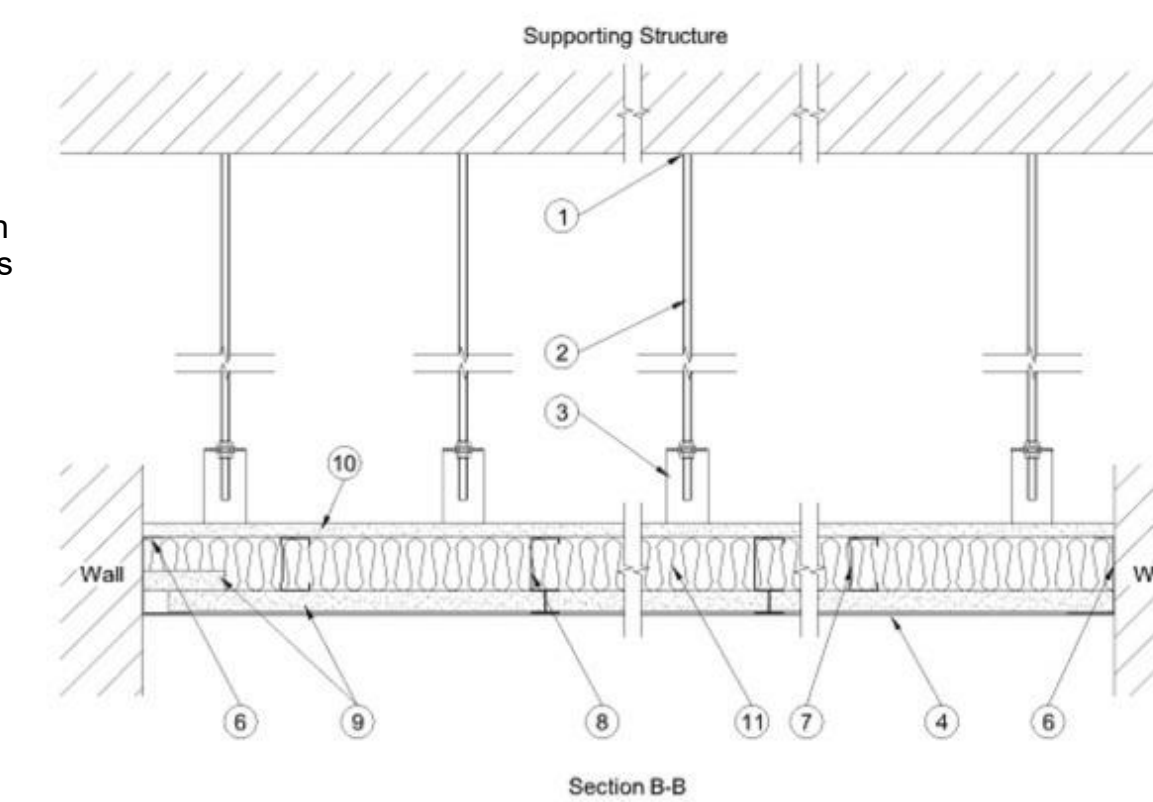
Fire Resistance Ratings - ANSI/UL 263
Design No. K501
 October 30, 2019
Nonbearing Horizontal Shaft Ratings - 1 Hr

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.



3 **K501 - Horizontal Shaft Rating**



1. **Supporting Structure** — Suitable point of attachment for Hanger Rods (Item 2).
2. **Hanger Rod** — 6 mm (1/4 in.) diameter galvanized steel rod, threaded full length or at ends only. Hanger Rods are spaced 200 mm (8 in.) from edge and 610 mm (24 in.) OC.
3. **Hanger Connector** — L-shaped, width 50 mm (2 in.), fabricated from 2 mm (5/64 in.) thick galvanized steel. Horizontal leg 50 mm (2 in.) with an 8 mm (5/16 in.) diameter hole, connected to Hanger Rod (Item 2) with steel washer and nut. Vertical leg 200 mm (8 in.) with a 14 mm (9/16 in.) diameter hole, connected to Bracket (Item 4) with 9.5 mm (3/8 in.) diameter carriage bolt, steel washer and nut.
4. **Bracket** — Galvanized angle, 2.3 mm (3/32 in.) thick. Vertical leg 38 mm (1-1/2 in.) with a 10 mm (3/8 in.) by 25 mm (1 in.) oval hole. Horizontal leg 38 mm (1-1/2 in.). Length of each angle is 1215 mm (47-51/64 in.) except first angle is 1070 mm (42-1/8 in.). Angles are placed back to back to form a "T" and joined by Bracket Connectors (Item 5) with 9.5 mm (3/8 in.) diameter carriage bolt, rubber washer, steel washer and nut. A 5 mm (1/8 in.) expansion gap is provided at each bracket joint. Brackets are spaced a maximum of 1830 mm (72 in.) OC.
5. **Bracket Connector** — Length 90 mm (3-9/16 in.), width 30 mm (1-3/16 in.), fabricated from 2 mm (5/64 in.) thick galvanized steel, with two 14 mm (9/16 in.) diameter holes spaced 55 mm (2-3/16 in.) OC.
6. **Runner** — "J" - shaped, 94 mm (3-5/8 in.) wide with unequal legs of 25 mm (1 in.) and 57 mm (2-1/4 in.), fabricated from 22 MSG galvanized steel. Runners are attached tight to wall with short leg toward the 15 mm thick gypsum board. Fasten two ends of runners to horizontal leg of Bracket (Item 4) with #8 by 10 mm (3/8 in.) long pan-head self-drilling screws.
7. **Stud** — "C" - shaped, 65 mm (2-1/2 in.) wide by 35 mm (1-3/8 in.) deep with an 8 mm (5/16 in.) lip, fabricated from 22 MSG galvanized steel. Fastened to horizontal leg of Bracket (Item 4) with #8 by 10 mm (3/8 in.) long pan-head self-drilling screws. C studs are spaced 610 mm (24 in.) OC, but spacing from first stud center to perimeter is 305 mm (12 in.).
8. **Stud** — "CH" - shaped, 92 mm (3-5/8 in.) wide by 35 mm (1-3/8 in.) deep with an 8 mm (5/16 in.) lip, fabricated from 22 MSG galvanized steel. Fasten two ends of studs upon horizontal leg of Bracket (Item 4) with #8 by 10 mm (3/8 in.) long pan-head self-drilling screws. CH studs are spaced 610 mm (24 in.) OC; spacing from first stud center to perimeter is 610 mm (24 in.).
9. **Gypsum Board*** — 25.4 mm (1 in.) thick gypsum liner panel supplied in nominal 610 mm (24 in.) widths. Edges are inserted in "H" - shaped section of "C-H" studs (Item 8), but edge at ceiling start is attached to the long leg of "J" - runner (Item 6) with 41.3 mm (1-5/8 in.) long Type S steel screws spaced 152 mm (6 in.) OC. Attached to C studs with 41.3 mm (1-5/8 in.) long Type S steel screws spaced 150 mm (6 in.) OC. Gypsum liner at end of ceiling is cut 30 mm (1-3/16 in.) less than residual width. After inserting in "H" - shaped section of "C-H" studs (Item 8), apply a 100 mm (4 in.) wide gypsum liner shim placed tight to wall and attached to the long leg of "J" - runner (Item 6) with 63.5 mm (2-1/2 in.) long Type S steel screws spaced 152 mm (6 in.) OC.
- UNIVERSAL CEMENT CORP — Type GB-F
10. **Gypsum Board*** — 15 mm (5/8 in.) thick. Single layer applied perpendicular to studs with end joints on studs. Attached to both the C and CH studs with 25.4 mm (1 in.) long Type S steel screws spaced 15 mm (5/8 in.) from board ends and 150 mm (6 in.) OC in field of board.
- UNIVERSAL CEMENT CORP — Type GB-F, GB-F W/R, GB-S

11. **Batts and Blankets*** — Glass fiber batts, fitted into each stud cavity. Fasten each batt to Gypsum Board (Item 9) with min. 14.3 mm (9/16 in.) long steel staples. Drive one staple into each corner and center of the batt. Minimum batt thickness 50 mm (2 in.) and density 24 kg/m³ (1.5 lb/cu ft). See Batts and Blankets (BZJZ) category for names of manufacturers.

12. **Batts and Blankets*** — Ceramic fiber batts, width 200 mm (8 in.). Batts are adhered to Gypsum Board (Item 9) with Joint Compound (Item 14), to back up joint of Bracket (Item 4). Min. batt thickness 25 mm (1 in.) and density 96 kg/m³ (6 lb/cu ft).

13. **Sealant*** — UL labeled intumescent caulking, applied in a 15 mm deep bead in end joints on top layer gypsum board, and at perimeter between gypsum board and wall.
- NUCO INC — Self Seal GG-266

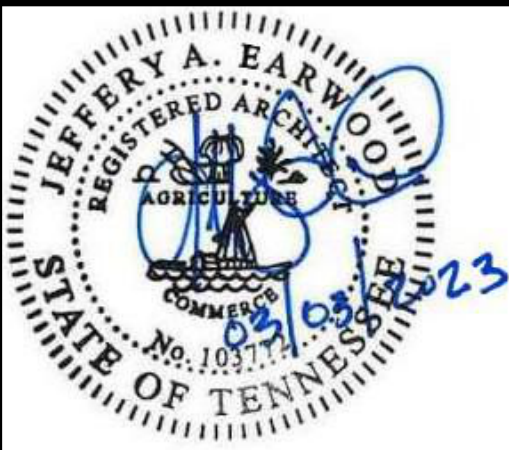
14. **Joint Tape and Compound** — (Not shown) Face layer of finished (downward) side shall have vinyl, dry or premixed compound, applied in two coats to joints and screw heads. Paper tape, 50 mm (2 in.) wide, embedded in first layer of compound over all joints.

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



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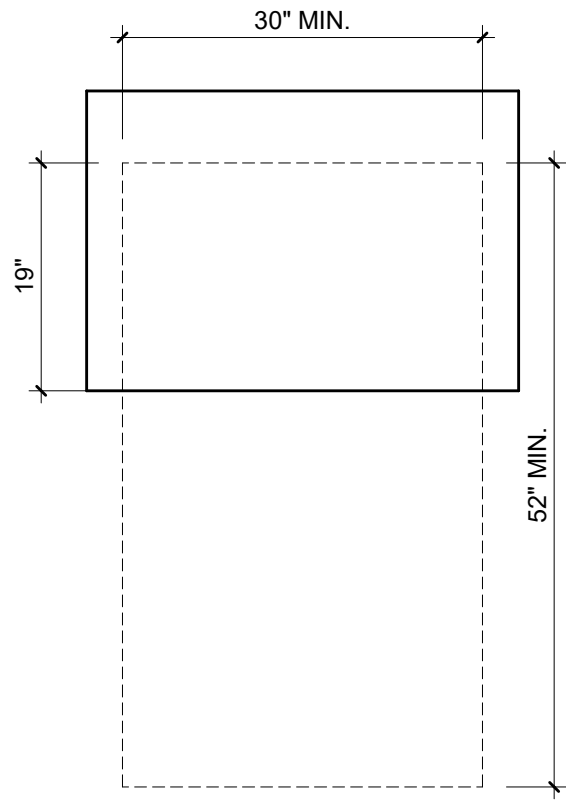
TOWN OF NOLENSVILLE
 FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE

REVISIONS	

DR. BY	SH
CK. BY	JE, LS
PROJ. NO.	A01122
DATE	03/03/23
ASSEMBLY DETAILS	

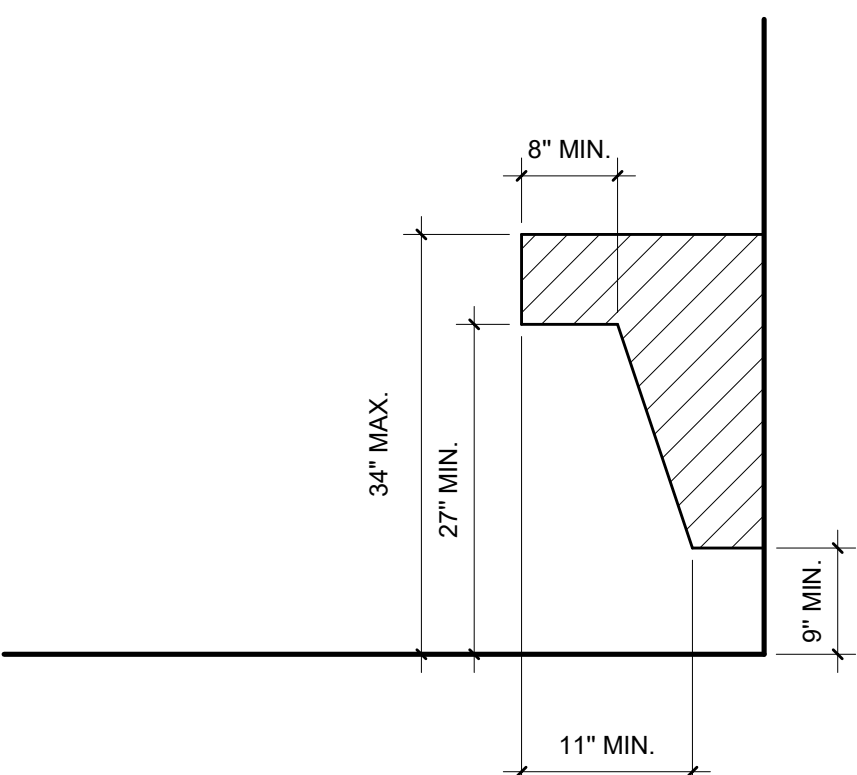
G161

IF SEATING IS PROVIDED AT TABLES OR COUNTERS, KNEE SPACE MUST BE A MINIMUM 27" HIGH, 30" WIDE, & 19" DEEP.



PLAN

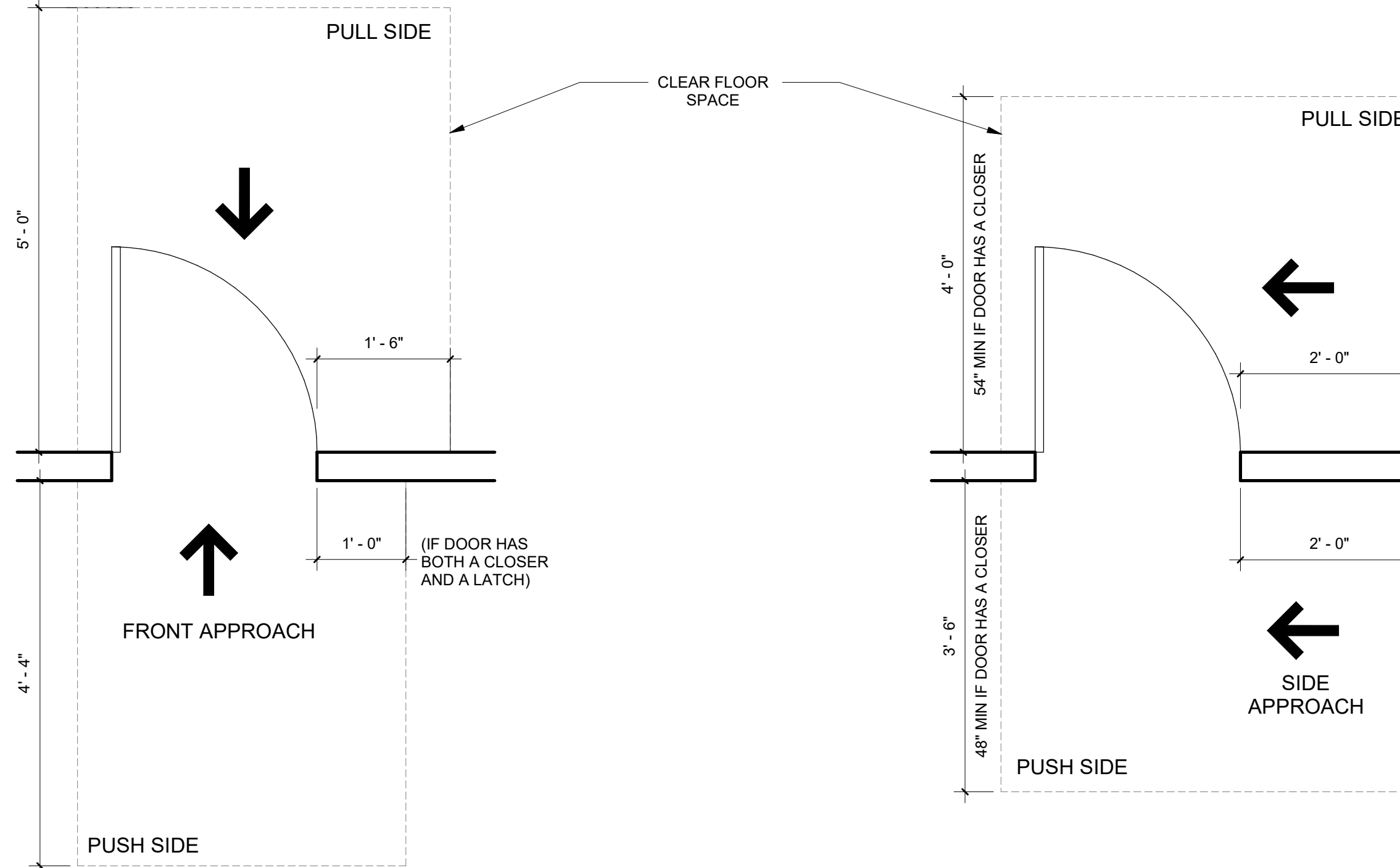
WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11\"/>



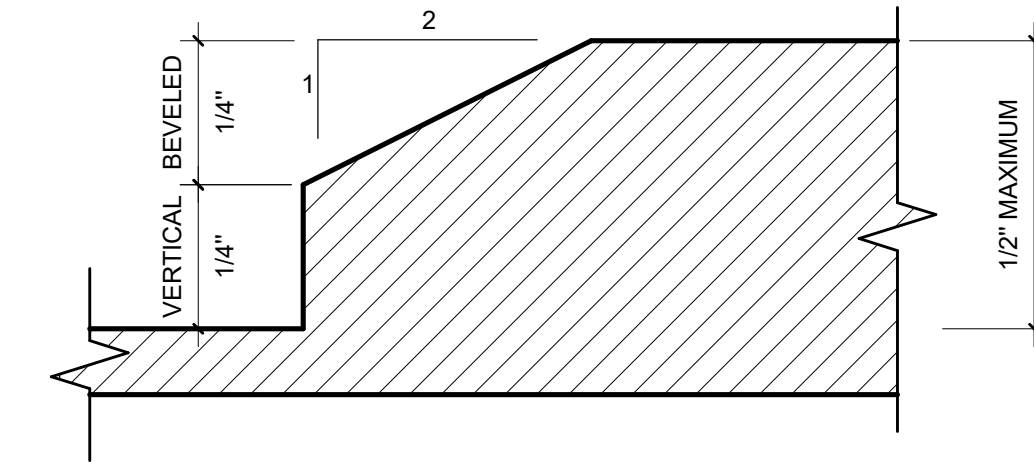
SECTION A

1 ACCESSIBLE COUNTERTOP

2 DOOR SWINGS

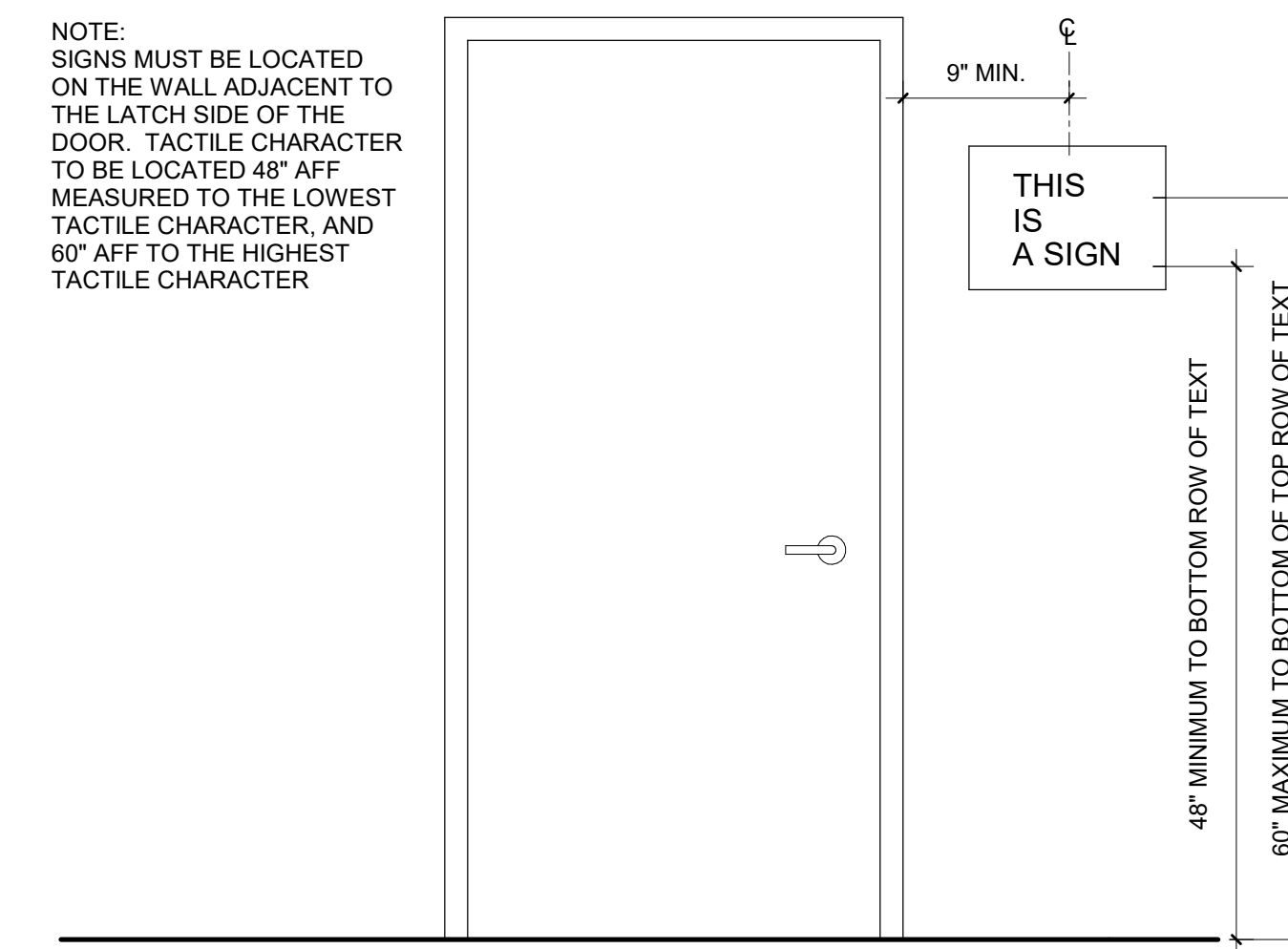


GENERAL NOTES:
 1. CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
 2. A CHANGE IN LEVEL OF 1/2" IS PERMITTED TO BE 1/4" VERTICAL PLUS 1/4" BEVELED. HOWEVER, IN NO CASE MAY THE COMBINED CHANGE IN LEVEL EXCEED 1/2". CHANGES IN LEVEL EXCEEDING 1/2" MUST COMPLY WITH RAMPS OR CURB RAMPS.

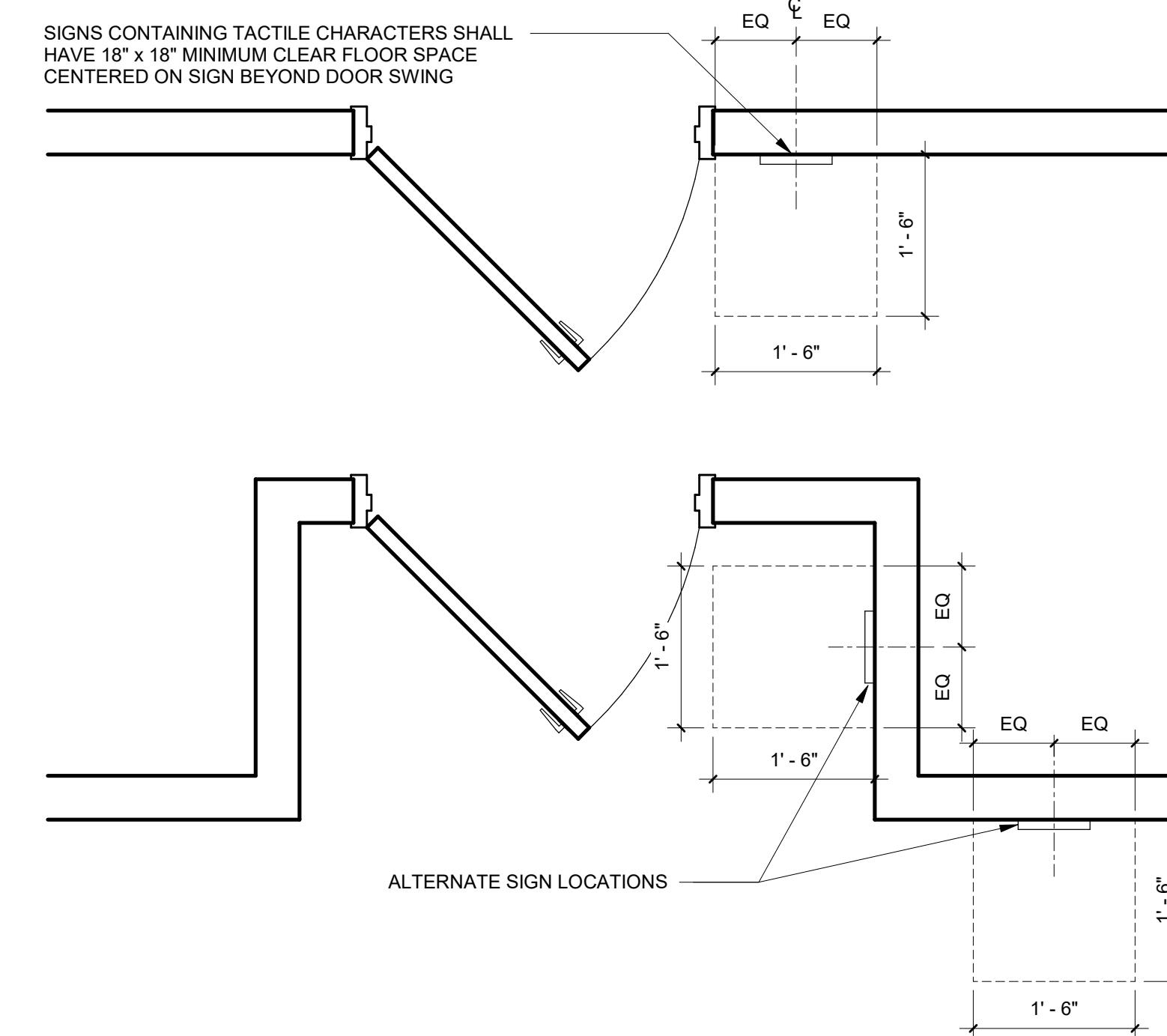


3 CHANGES IN LEVEL

NOTE:
 SIGNS MUST BE LOCATED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. TACTILE CHARACTER TO BE LOCATED 48" AFF MEASURED TO THE LOWEST TACTILE CHARACTER, AND 60" AFF TO THE HIGHEST TACTILE CHARACTER



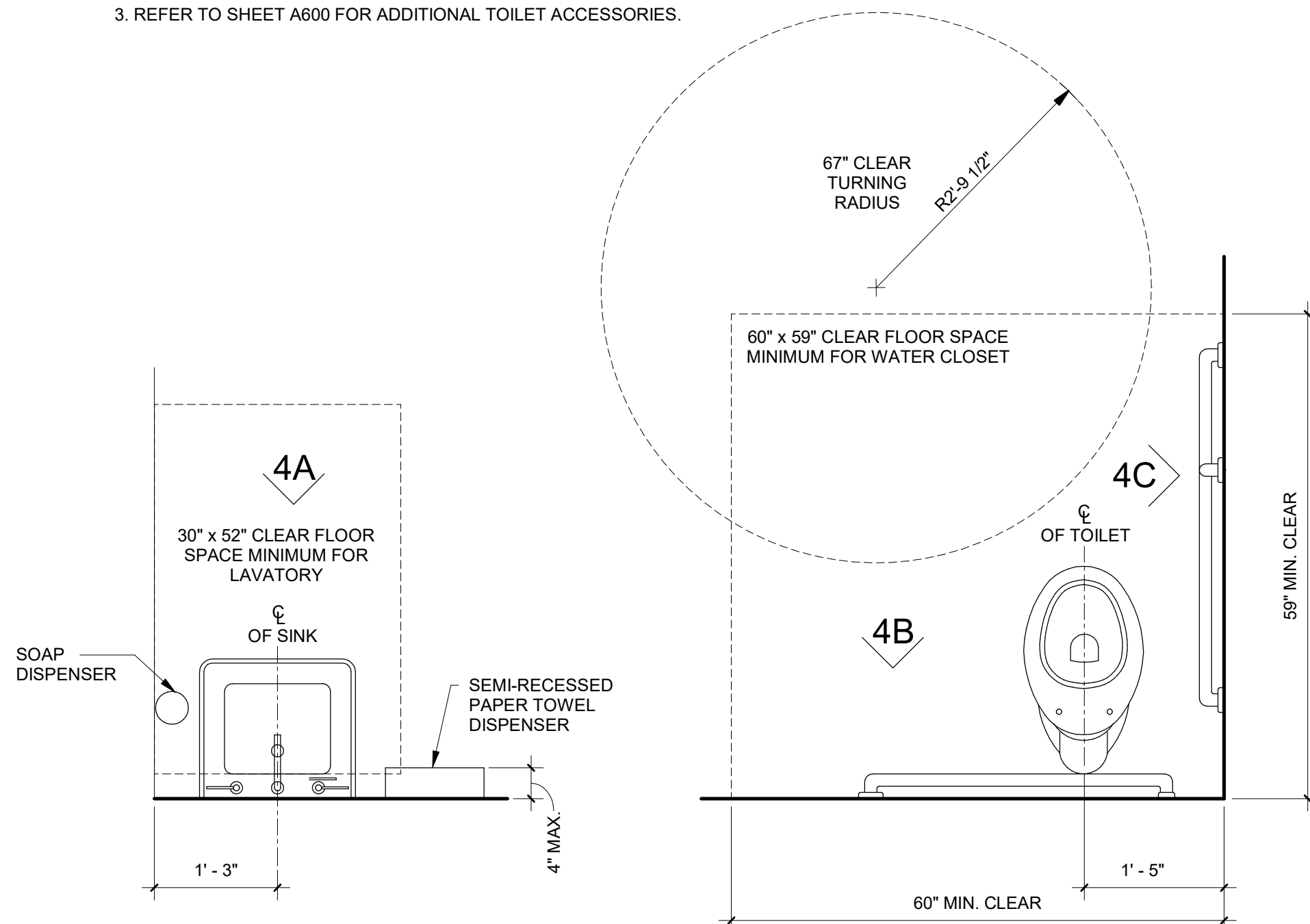
SIGNS CONTAINING TACTILE CHARACTERS SHALL HAVE 18" x 18" MINIMUM CLEAR FLOOR SPACE CENTERED ON SIGN BEYOND DOOR SWING



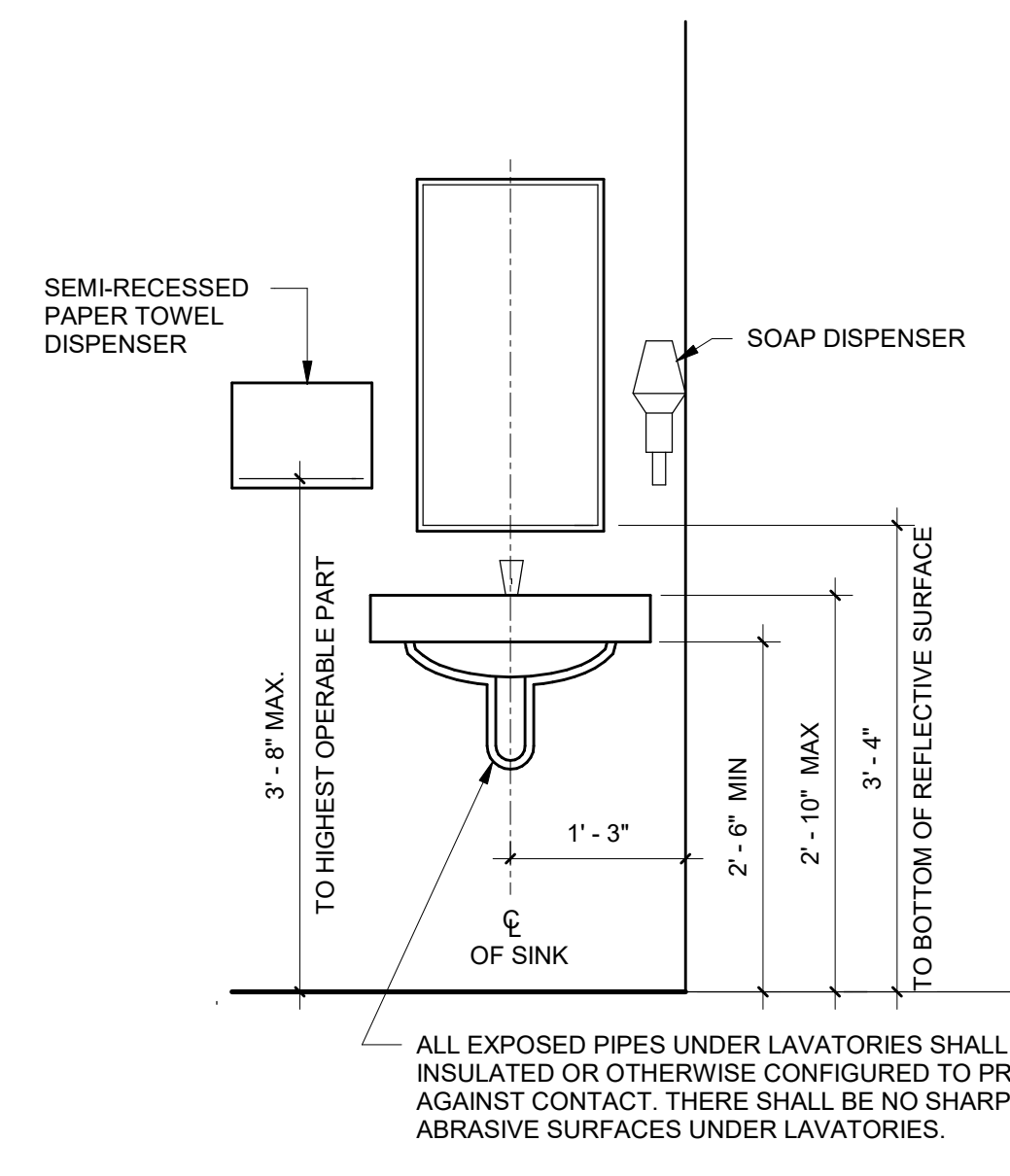
5 ACCESSIBLE SIGN LOCATION

GENERAL NOTES

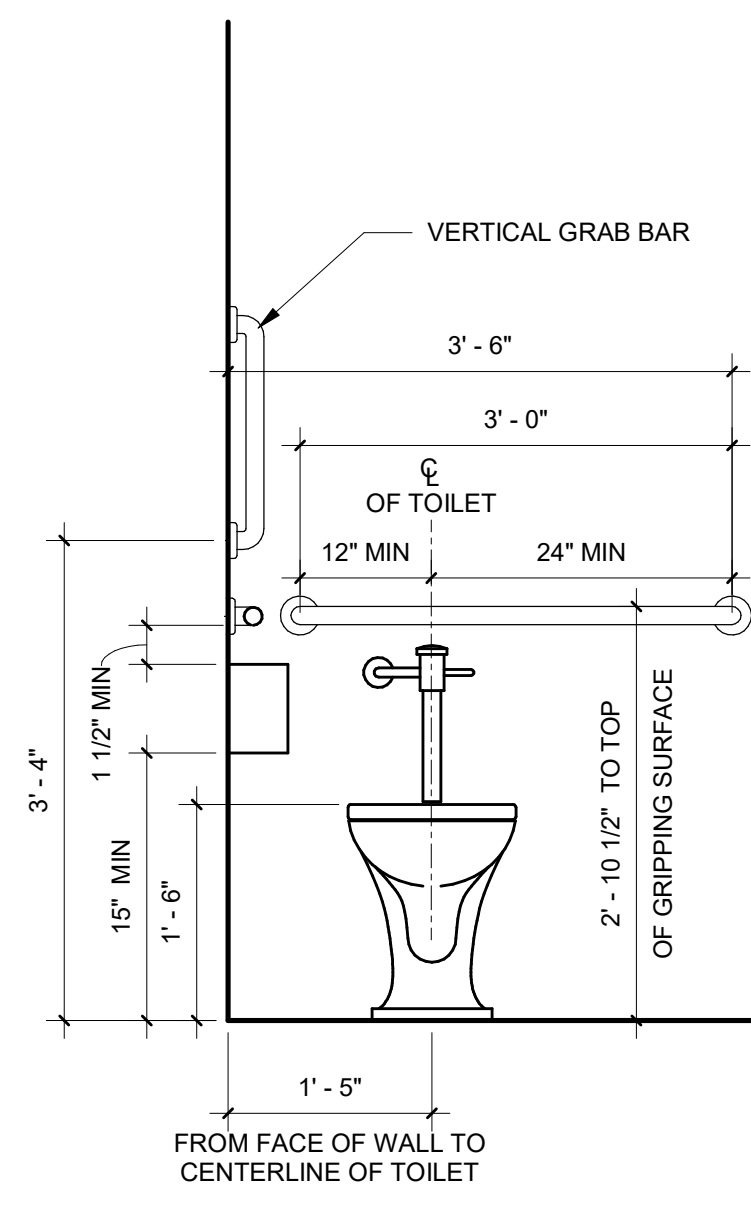
- A CLEAR FLOOR SPACE 30" BY 52" SHALL BE PROVIDED IN FRONT OF LAVATORY TO ALLOW FORWARD APPROACH.
- FAUCETS CAN BE EITHER LEVER-OPERATED, PUSH TYPE, OR ELECTRONICALLY CONTROLLED. IF SELF-CLOSING VALVES ARE USED THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.
- REFER TO SHEET A600 FOR ADDITIONAL TOILET ACCESSORIES.



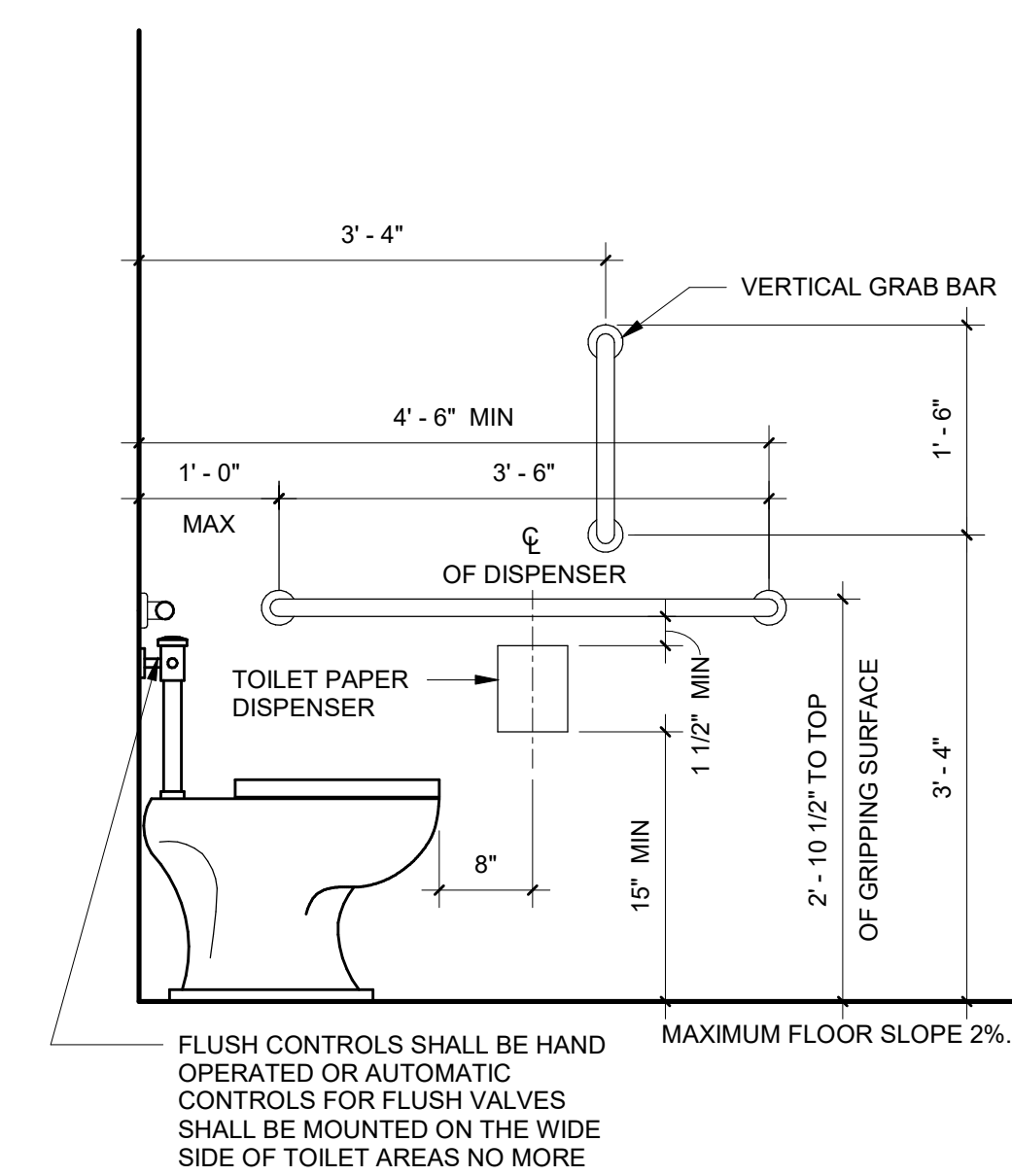
4 ACCESSIBLE TOILET ROOM - PLAN



4A ELEVATION A

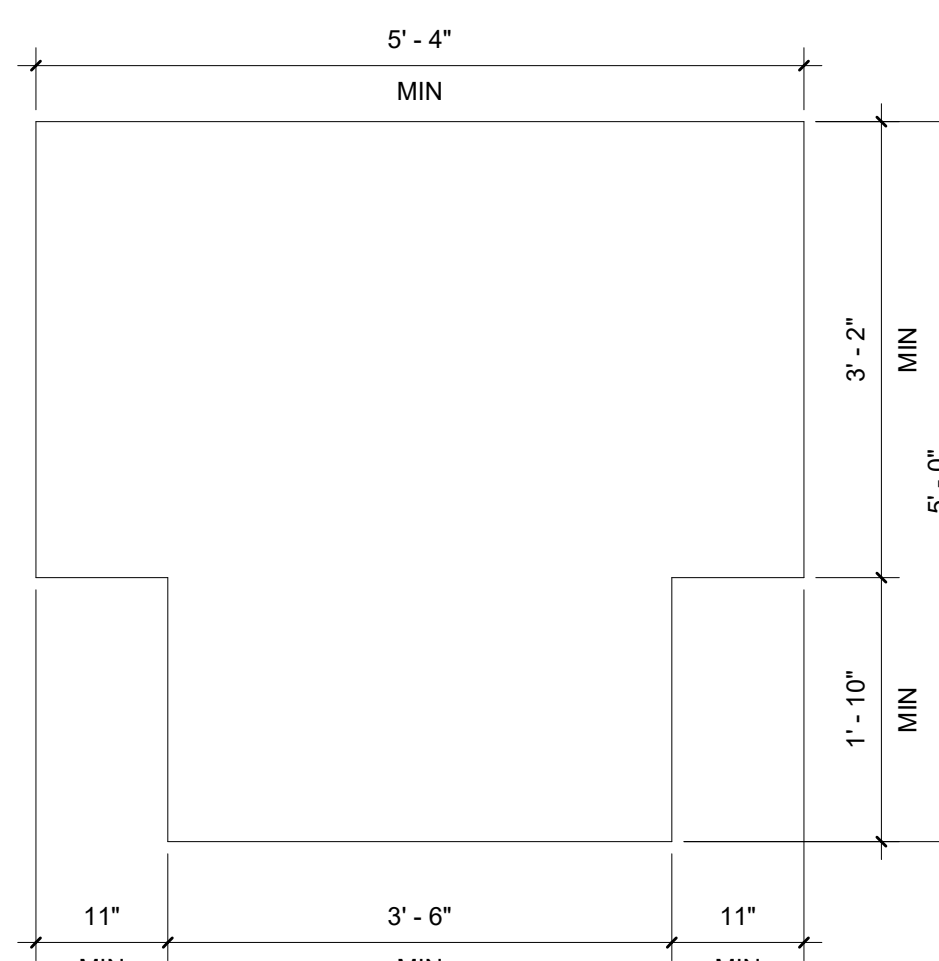


4B ELEVATION B

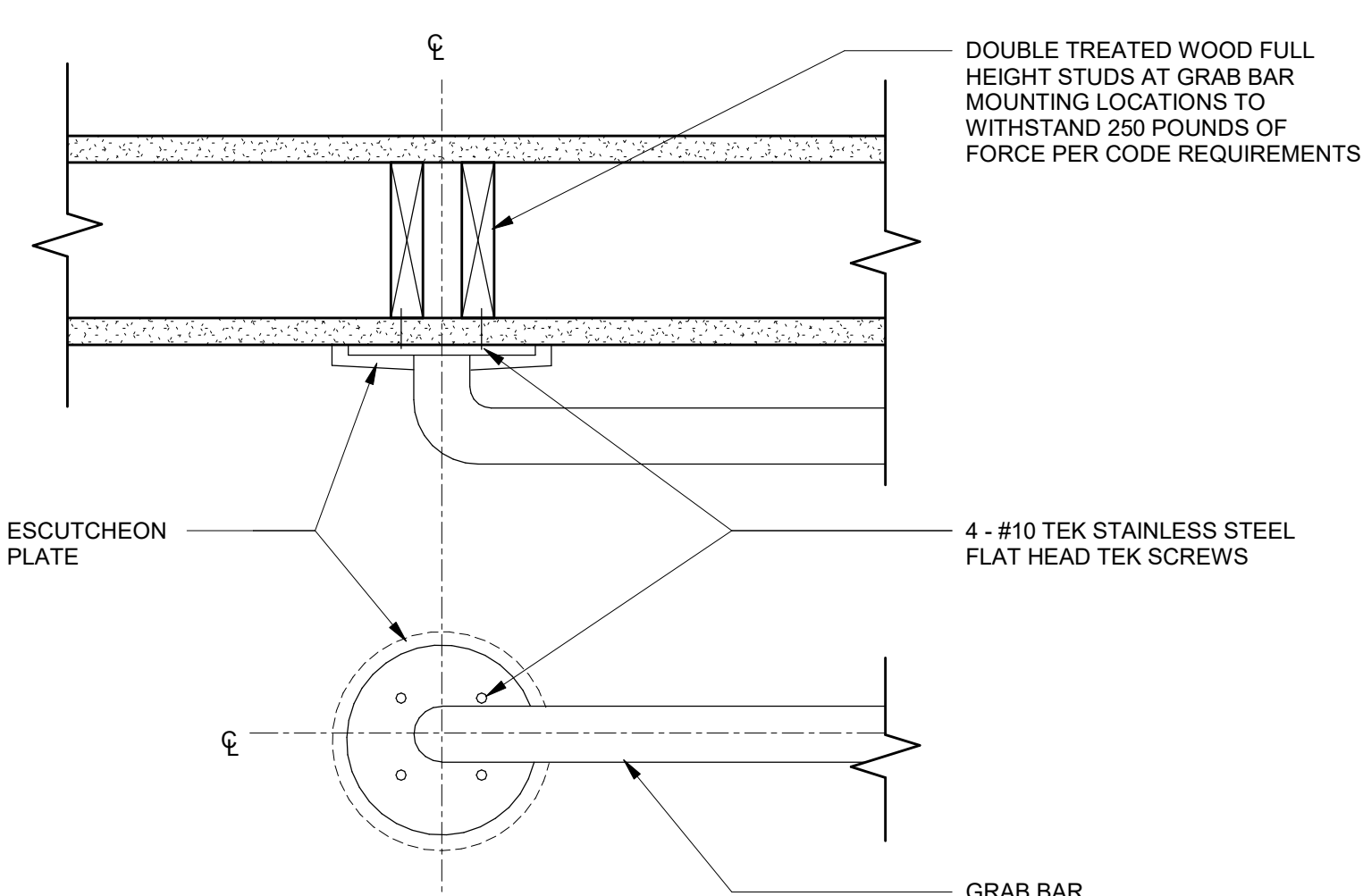


4C ELEVATION C

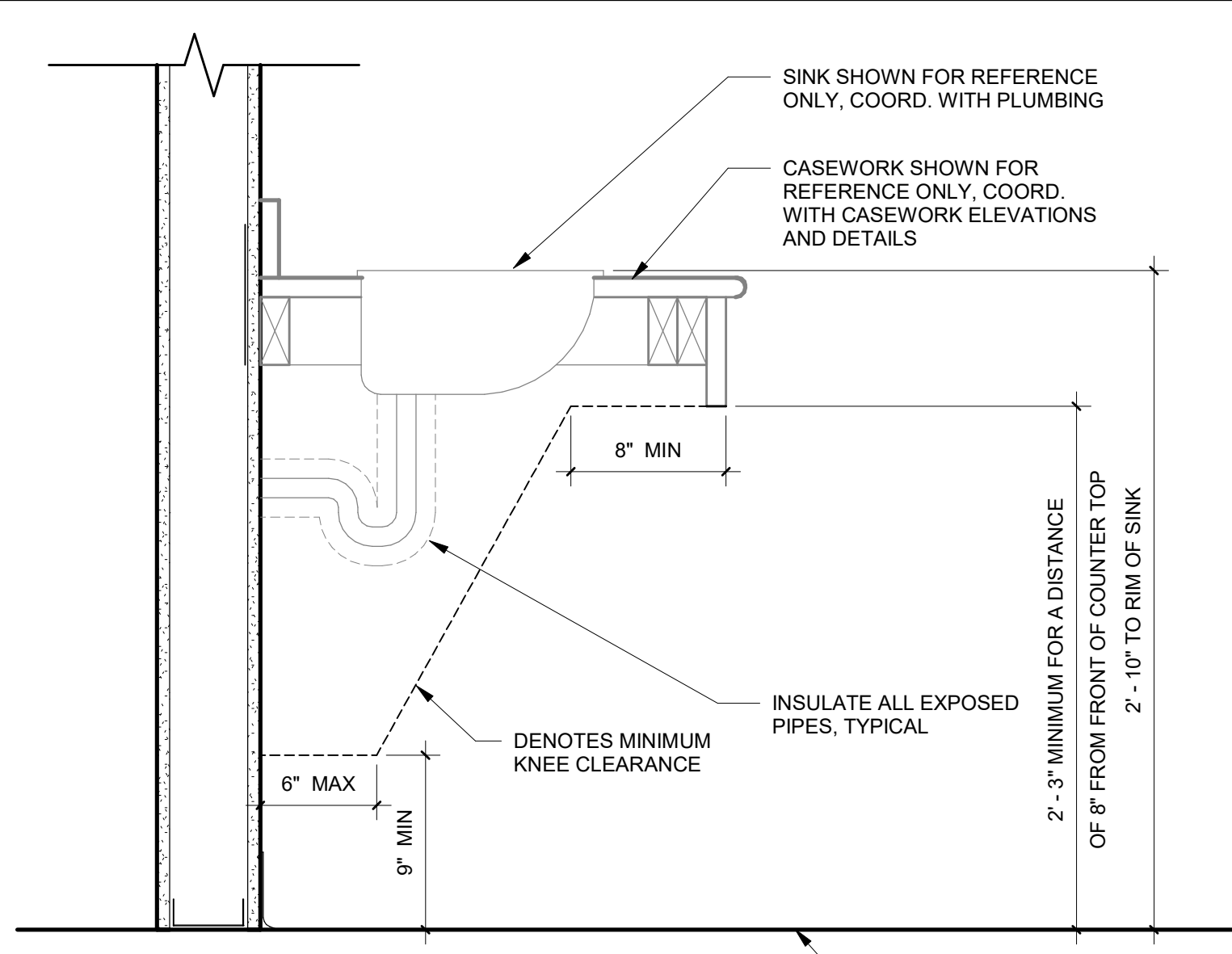
NOTE:
 ACCESSIBLE TOILET ROOMS TO PROVIDE THE 5'-7" TURNING RADIUS UNLESS ALTERNATE. T-SHAPED TURNING RADIUS CLEARANCE IS NOTED IN THE ENLARGED PLANS.



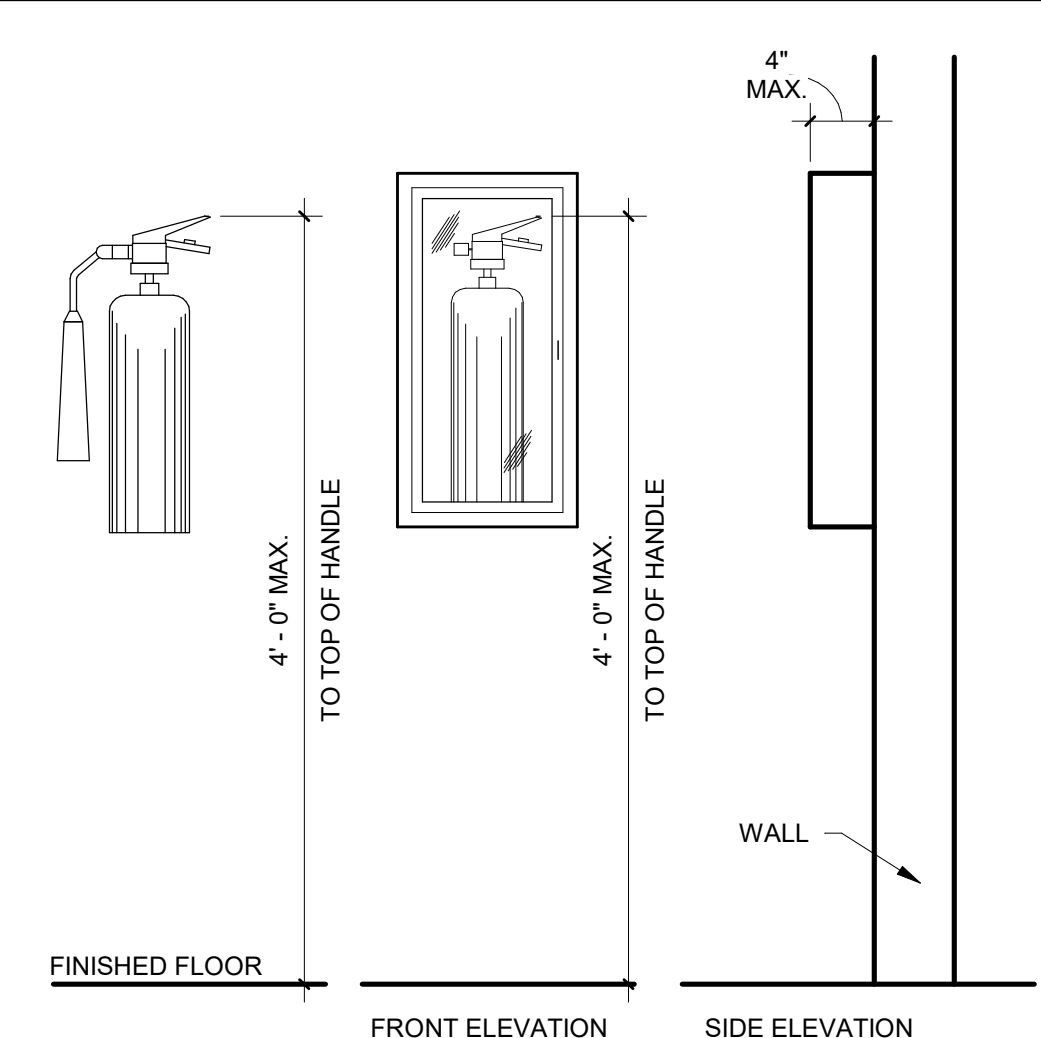
9 T-SHAPED TURNING SPACE



6 DETAIL - GRAB BAR



7 ACCESSIBLE LAVATORY SINK

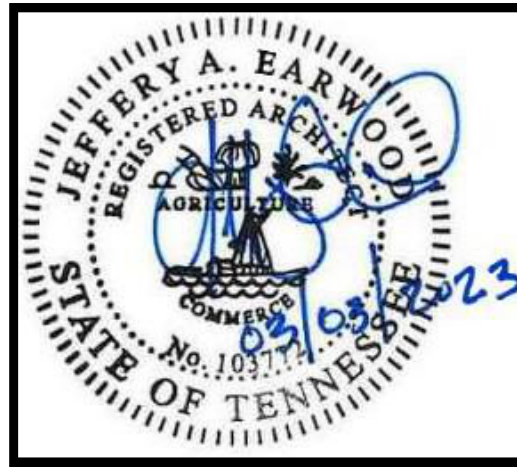


8 ACCESSIBLE FIRE EXTINGUISHER



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TOWN OF NOLENSVILLE
 FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE

REVISIONS	

DR. BY SH, LH
 CK. BY JE, LS
 PROJ. NO. A01122
 DATE 03/03/23
ACCESSIBILITY DETAILS

G175

OCCUPANCY LOAD								
FLOOR	SPACE	AREA	AREA PER OCCUPANT	OCCUPANT LOAD	INCHES / PERSON	INCHES REQUIRED	INCHES PROVIDED	Comments
FIRST FLOOR	Accessory storage areas, mechanical equipment room	1,935.9 SF	300.0 SF	16	0.15	2.4	0"	STORAGE AND MECHANICAL SPACES
FIRST FLOOR	Assembly without fixed seats - Unconcentrated (tables and chairs)	889.9 SF	15.0 SF	56	0.15	8.4	0"	TRAINING ROOM
FIRST FLOOR	Business areas (2012 IBC)	151.2 SF	100.0 SF	2	0.15	0.3	0"	OFFICES
FIRST FLOOR	Exercise rooms	531.5 SF	50.0 SF	11	0.15	1.65	0"	PHYSICAL AGILITY
FIRST FLOOR	Kitchens, commercial	792.4 SF	200.0 SF	4	0.15	0.6	70"	KITCHEN/DINING
FIRST FLOOR	Locker rooms	703.8 SF	50.0 SF	16	0.15	2.4	0"	LOCKER ROOMS
FIRST FLOOR	Residential	3,522.4 SF	200.0 SF	27	0.15	4.05	66"	BUNK ROOMS, DAY ROOM, CORRIDORS, TOILETS
		8,527.1 SF		132		19.8	138"	

WALL LEGEND

NEW CONSTRUCTION

REFER TO THE G150 SERIES SHEETS FOR PARTITION TYPES AND DETAILS

- NON-RATED PARTITION
- NON-RATED SOUND PARTITION
- NON-RATED CMU PARTITION
- NON-RATED CMU SOUND PARTITION
- 1/2 HOUR FIRE PARTITION
- 1/2 HOUR CMU FIRE PARTITION
- 1 HOUR CMU FIRE BARRIER

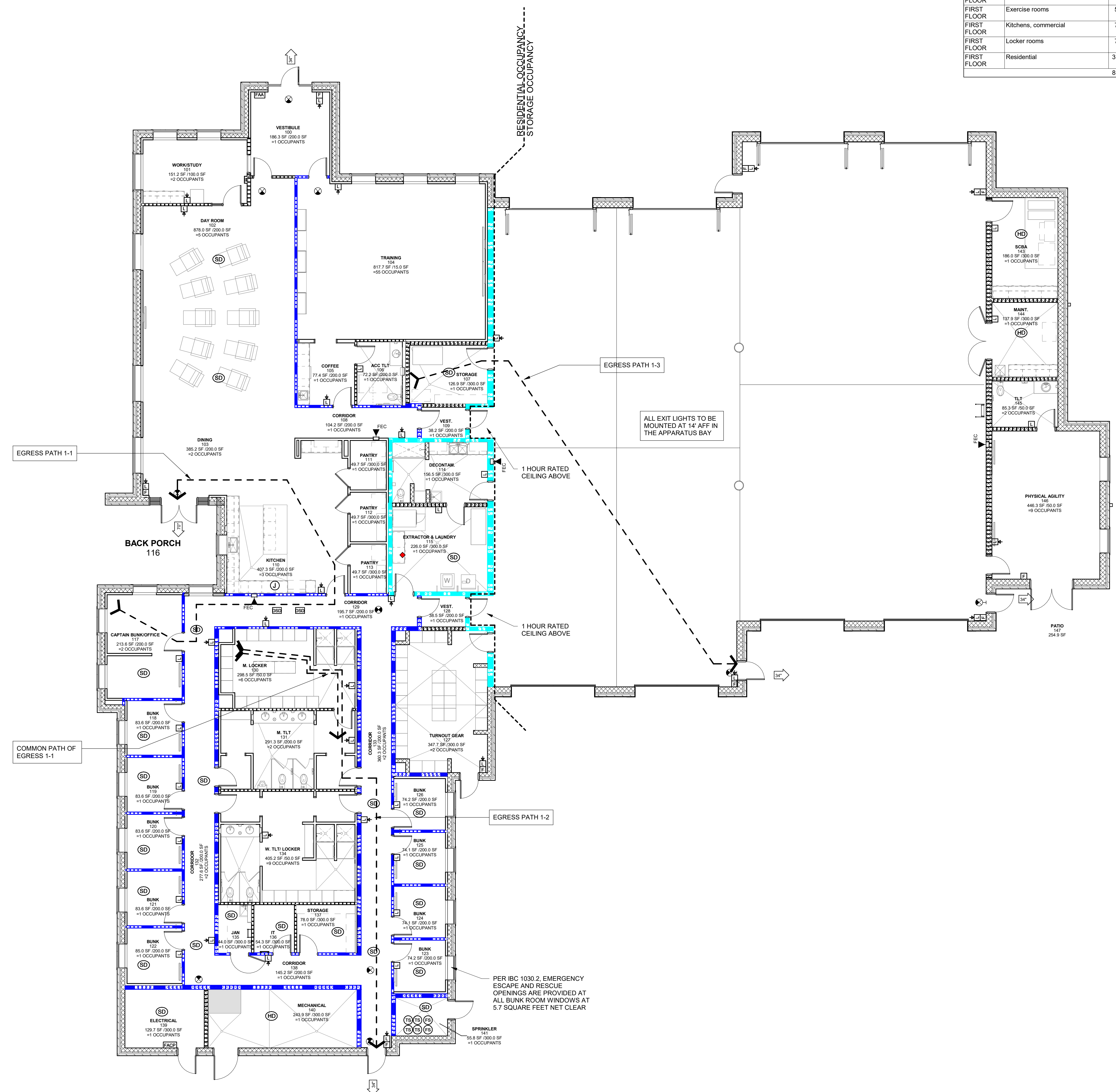
LIFE SAFETY LEGEND

- EGRESS CAPACITY (TO EXTERIOR OR AT 2 HOUR HORIZONTAL EXIT)
- EGRESS PATH
- COMMON PATH OF TRAVEL
- HAZARDOUS AREA INDICATION
- SMOKE DETECTOR (COORDINATE WITH ELECTRICAL HVAC POWER AND SYSTEMS PLAN)
- EXIT LIGHT (COORDINATE WITH ELECTRICAL LIGHTING PLAN)
- FIRE ALARM PULL STATION (COORDINATE WITH ELECTRICAL HVAC POWER AND SYSTEMS PLAN)
- FIRE ALARM LIGHT (COORDINATE WITH ELECTRICAL HVAC POWER AND SYSTEMS PLAN)
- FIRE ALARM SPEAKER SIGNAL STATION WITH LIGHT (COORDINATE WITH ELECTRICAL HVAC POWER AND SYSTEMS PLAN)
- FIRE ALARM HORN WITH LIGHT (COORDINATE WITH ELECTRICAL HVAC POWER AND SYSTEMS PLAN)
- HEAT DETECTOR
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER
- FIRE ALARM ANNUNCIATOR (COORDINATE WITH ELECTRICAL HVAC POWER AND SYSTEMS PLAN)
- FIRE ALARM CONTROL PANEL (COORDINATE WITH ELECTRICAL HVAC POWER AND SYSTEMS PLAN)

EGRESS PATH

COMMON PATH OF EGRESS 1-1	29' - 0 1/2"
EGRESS PATH 1-1	87' - 10 1/4"
EGRESS PATH 1-2	93' - 7 5/8"
EGRESS PATH 1-3	91' - 2 5/8"

FURTHEST DISTANCE TO EXIT FOR R OCCUPANCY = 250' ALLOWABLE
 FURTHEST DISTANCE TO EXIT FOR S-2 OCCUPANCY = 400' ALLOWABLE

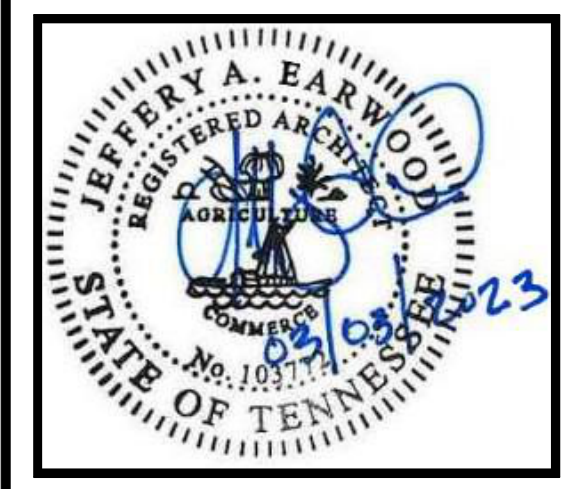


1 LEVEL 1 LIFE SAFETY PLAN

t m p

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**TOWN OF NOLENSVILLE
 FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE**

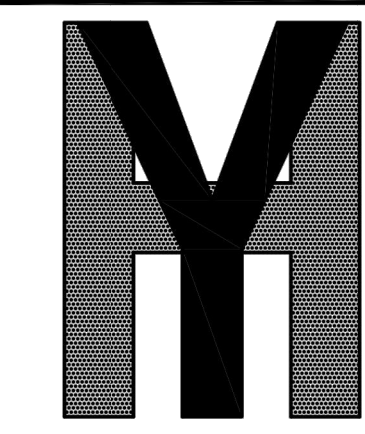
REVISIONS

NO.	DESCRIPTION

DR. BY	SH, LH
CK. BY	JE, LS
PROJ. NO.	A01122
DATE	03/03/23

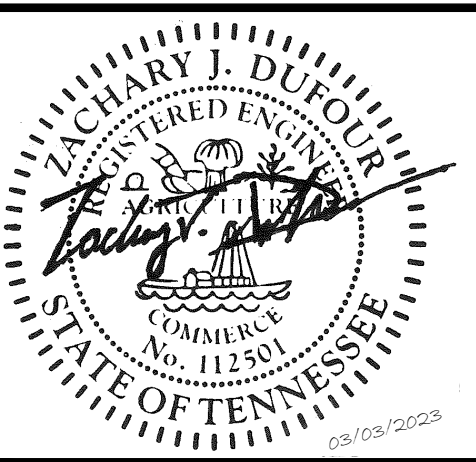
LEVEL 1 LIFE SAFETY PLAN

G301

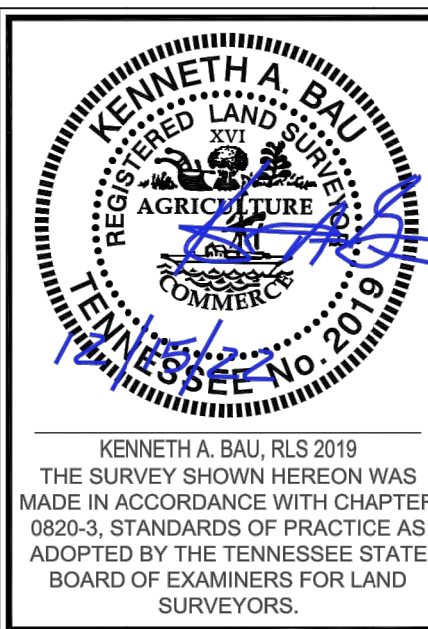


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dave@younghobbs.com



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Main: 615.586.2701 | www.kimley-horn.com
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No.	Date	Added Title Information	Revision
1	12/1/22		

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Kimley Horn and Associates, Inc.
10 LEE AVENUE,
SUITE 400,
NASHVILLE, TN 37210

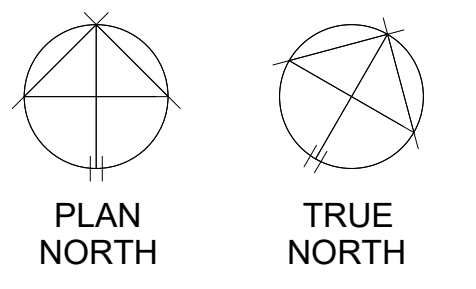
ALTA/NSPS LAND TITLE SURVEY

OWNER INFORMATION
TOWN OF NOLENSVILLE
7231 HALEY IND DR
NOLENSVILLE, TN 37135
DB-8881, PG 287
MAP 056 PARCEL 05213
TOWN OF NOLANSVILLE,
WILLIAMSON COUNTY,
TENNESSEE

DRAWN BY: KAB-CLH
APPROVED BY: KAB
DATE: (FIELD) 9/12/2022
DATE: (OFFICE) 9/20/2022
YHA PROJ. # 194-22

SHEET 1 OF 1

**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**



REVISIONS

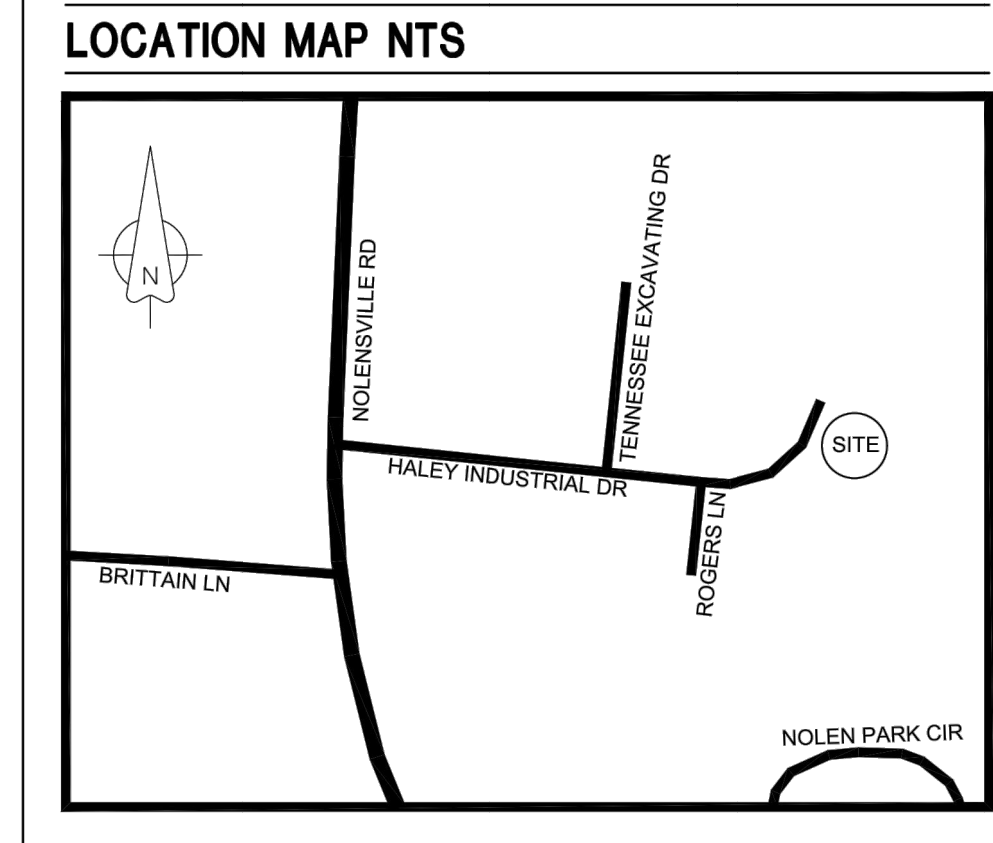
No.	Date	Description

EXISTING CONDITIONS
C100

LEGEND

•	IRON PIN FOUND, AS NOTED
○	BENCHMARK, AS NOTED
—	SEWER CLEAN OUT
—	SEWER MANHOLE
—	FIRE HYDRANT
—	WATER VALVE
—	UTILITY POLE
—	GUY WIRE
—	ELECTRIC METER
—	GATE POST
—	PROPERTY LINE
—	EASEMENT LINE
—	SETBACK LINES
—	WATER LINE, AS NOTED
—	SS SANITARY SEWER, AS NOTED
—	FOC UNDERGROUND FIBER OPTIC
—	ST STORM SEWER PIPE, AS NOTED
—	E UNDERGROUND ELECTRIC
—	RR RIPRAP

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C1 M	166.54'	380.00'	N 57°51'51" E	165.21'	25°06'38"
C1 R	185.62'	380.00'	N/A	N/A	N/A



SITE ADDRESS

7231 HALEY INDUSTRIAL DR.
NOLENSVILLE, TN

PARKING COUNT

REGULAR	0
HANDICAP	0
TOTAL	0

NOTES CORRESPONDING TO SCHEDULE B-II:

FIRST AMERICAN TITLE INSURANCE COMPANY
EFFECTIVE DATE: JANUARY 10, 2022 @ 8:00 A.M.
MADE IN ACCORDANCE WITH CHAPTER 060-3, STANDARDS OF PRACTICE AS ADOPTED BY THE TENNESSEE STATE BOARD OF EXAMINERS FOR LAND SURVEYORS.
9. Restrictions, dedications, reservations, easements and other matters shown on the plat of RESUBDIVISION OF LOT 10 & 11, HALEY INDUSTRIAL PARK, PHASE TWO, as recorded in Plat Book P46, Page(s) 126. AFFECTS AS SHOWN.
10. Restrictions, dedications, conditions, reservations, easements and other matters shown on the plat of FINAL PLAT, HALEY INDUSTRIAL PARK, PHASE TWO, as recorded in Plat Book P43, Page(s) 15. DOES NOT AFFECT.

SURVEYOR'S CERTIFICATION:

To: TOWN OF NOLENSVILLE
FIRST AMERICAN TITLE
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 6(a), 7(a), 7(b)(1), 7(c), 8, 9, 10(a), 11, 13, 14, 16, AND 17 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON JANUARY 12, 2022.
DATE OF PLAT OR MAP: JANUARY 20, 2022.
KAB 12/15/22
KENNETH A. BAU, RLS 2019
kenn@younghobbs.com
DATE

SURVEY NOTES:

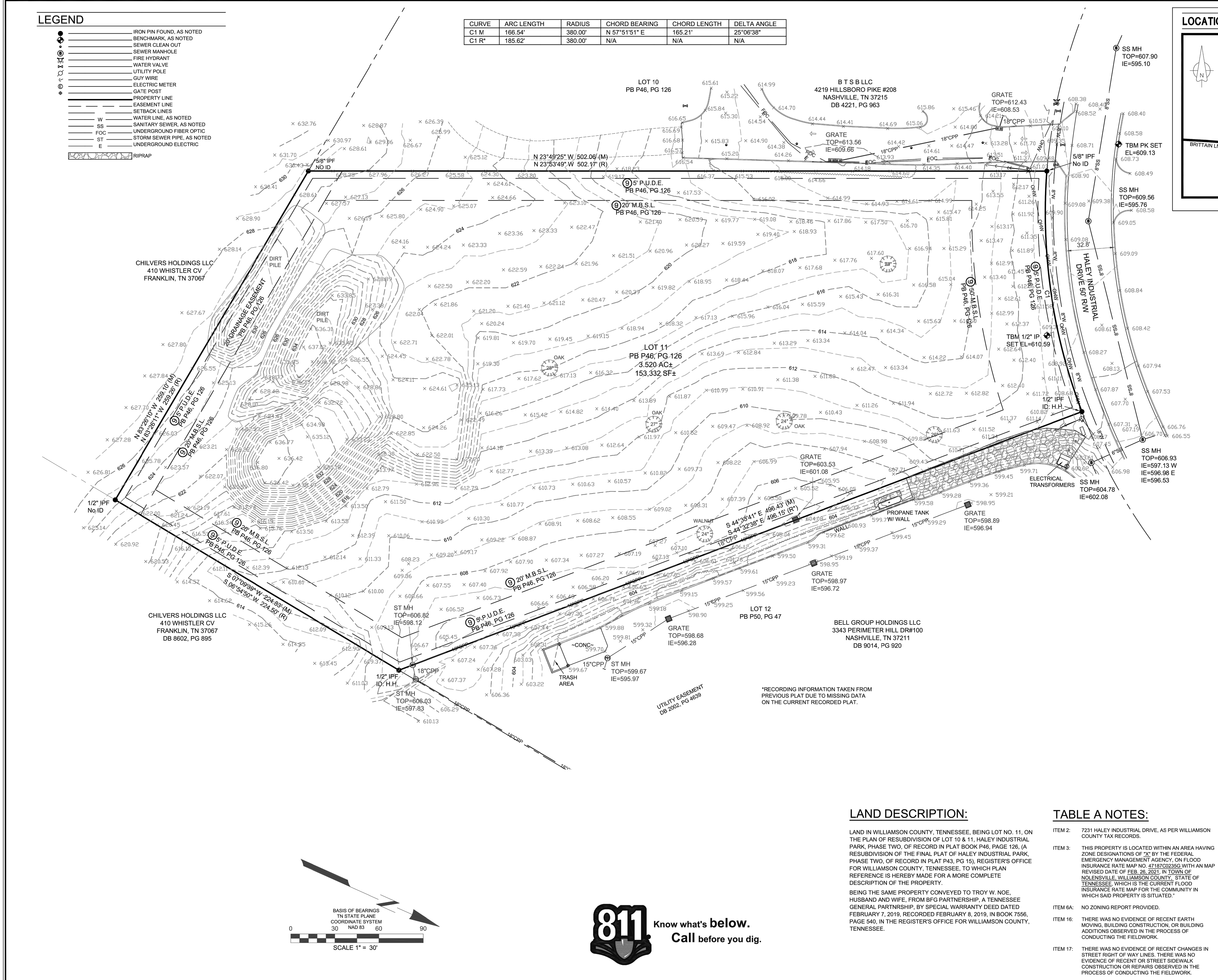
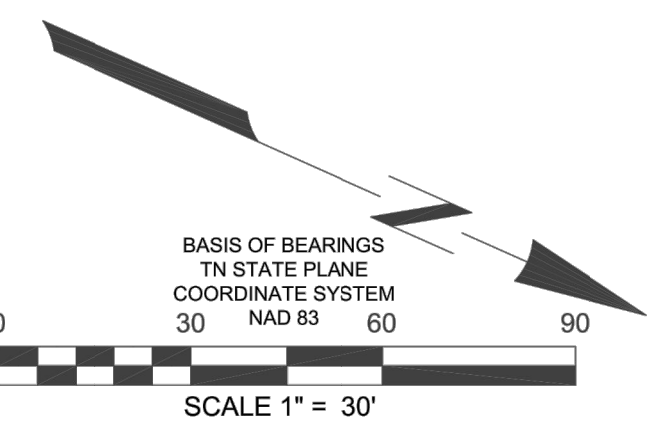
INFORMATION REGARDING THE PRESENCE, SIZE AND LOCATION OF UNDERGROUND UTILITIES IS SHOWN HEREON. THIS INFORMATION HAS BEEN SHOWN BASED ON THE LOCATION OF ABOVE GROUND APPURTENANCES, AVAILABLE DESIGN PLANS, AND FLAGS AND PAINT PLACED BY THE UNDERGROUND PROTECTION SERVICE. NO CERTIFICATION IS MADE AS TO THE ACCURACY OF THOROUGHNESS OF THE INFORMATION CONCERNING UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON. (TN ONE CALL SYSTEM, INC. 1-800-351-1111 OR 615)
NO PRIVATE UTILITY LOCATE WAS PERFORMED ON THIS SITE AT THE TIME OF THIS SURVEY.
NO BUILDING ON SITE AT TIME OF SURVEY.
CONTACT PROPER AUTHORITIES BEFORE BUILDING NEAR UTILITY LINES. FOR EASEMENT WIDTH AND RESTRICTIONS UTILITIES ARE APPROXIMATE AND SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION.
THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.
LIST OF ENCROACHMENTS: NONE
A TITLE REPORT WAS PROVIDED TO THE SURVEYOR.
THE PROPERTY DESCRIBED IN THE TITLE COMMITMENT IS THE SAME PROPERTY AS DESCRIBED ON THE SURVEY, AND THERE ARE NO GAPS OR GORES OR OVERLAPS OR STRIPS BETWEEN THE SUBJECT PROPERTY AND ADJOINERS.
I HEREBY CERTIFY THAT THIS SURVEY HAS BEEN MADE USING THE RECORDED INFORMATION SHOWN, AND THAT THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I HEREBY CERTIFY THAT THIS IS A CATEGORY 1 SURVEY AND THAT THE RATIO OF PRECISION OF THE UNADJUSTED TRAVERSE IS BETTER THAN 1:10,000 AS SHOWN HEREON.
THERE WAS NO EVIDENCE OF THIS PROPERTY BEING USED AS A CEMETERY.
THERE WAS NO EVIDENCE OF RECENT CHANGES IN STREET RIGHT OF WAY LINES. THERE WAS NO EVIDENCE OF RECENT OR STREET SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
THERE WAS NO EVIDENCE OF THIS PROPERTY BEING USED AS A CEMETERY.

LAND DESCRIPTION:

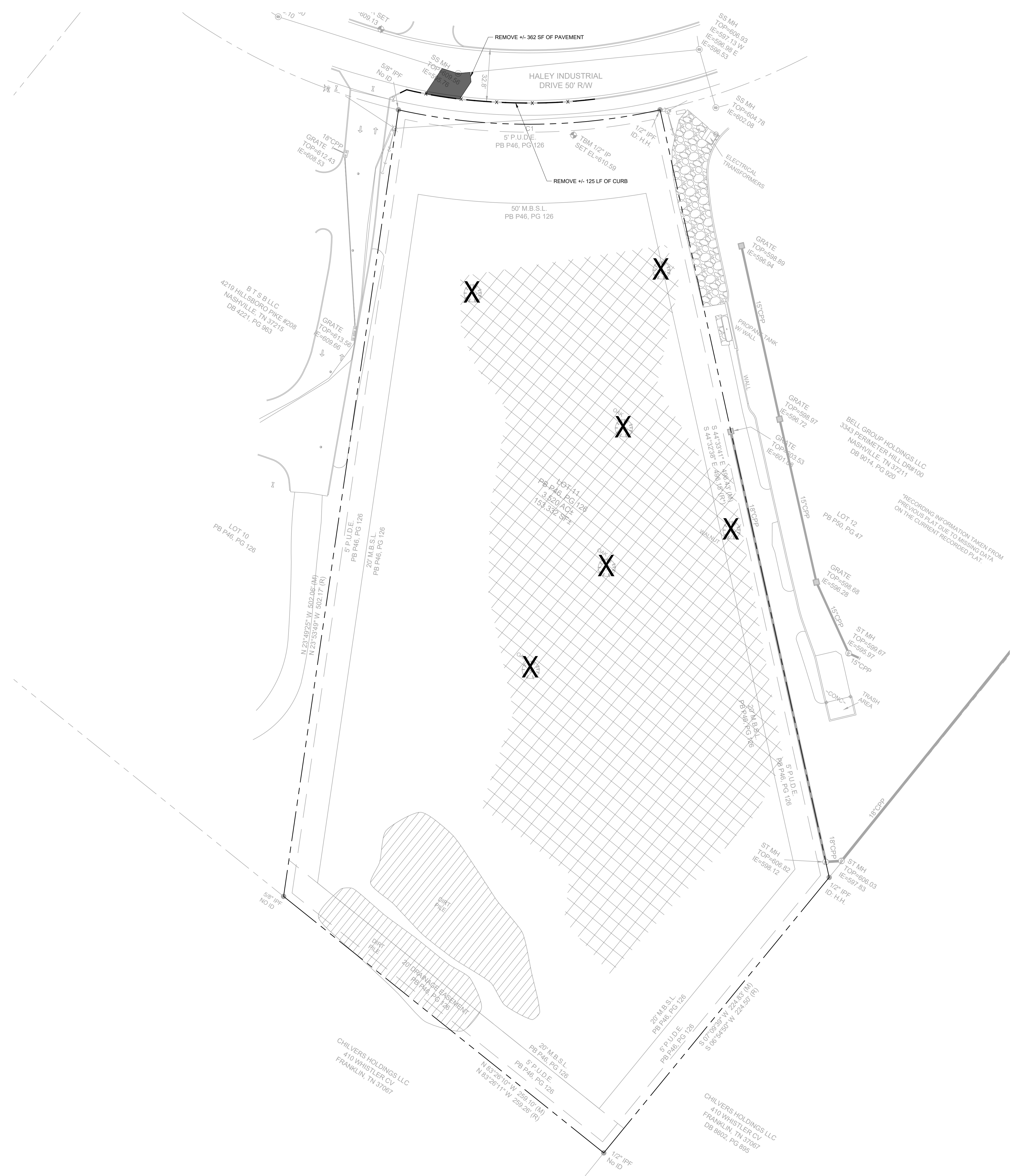
LAND IN WILLIAMSON COUNTY, TENNESSEE, BEING LOT NO. 11, ON THE PLAN OF RESUBDIVISION OF LOT 10 & 11, HALEY INDUSTRIAL PARK, PHASE TWO, OF RECORD IN PLAT BOOK P46, PAGE 126, (A RESUBDIVISION OF THE FINAL PLAT OF HALEY INDUSTRIAL PARK, PHASE TWO, OF RECORD IN PLAT P43, PG 15), REGISTER'S OFFICE FOR WILLIAMSON COUNTY, TENNESSEE, TO WHICH PLAN REFERENCE IS HEREBY MADE FOR A MORE COMPLETE DESCRIPTION OF THE PROPERTY.
BEING THE SAME PROPERTY CONVEYED TO TROY W. NOE, HUSBAND AND WIFE, FROM BFG PARTNERSHIP, A TENNESSEE GENERAL PARTNERSHIP, BY SPECIAL WARRANTY DEED DATED FEBRUARY 7, 2019, RECORDED FEBRUARY 8, 2019, IN BOOK 7556, PAGE 540, IN THE REGISTER'S OFFICE FOR WILLIAMSON COUNTY, TENNESSEE.

TABLE A NOTES:

- ITEM 2: 7231 HALEY INDUSTRIAL DRIVE, AS PER WILLIAMSON COUNTY TAX RECORDS.
- ITEM 3: THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING INSURANCE RATE MAP NO. 4718239560 WITH AN MAP REVISED DATE OF FEB. 28, 2021, IN TOWN OF NOLENSVILLE, WILLIAMSON COUNTY, STATE OF TENNESSEE, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.
- ITEM 6A: NO ZONING REPORT PROVIDED.
- ITEM 16: THERE WAS NO EVIDENCE OF RECENT EARTH MOVING, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
- ITEM 17: THERE WAS NO EVIDENCE OF RECENT CHANGES IN STREET RIGHT OF WAY LINES. THERE WAS NO EVIDENCE OF RECENT OR STREET SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.



CONSTRUCTION SET

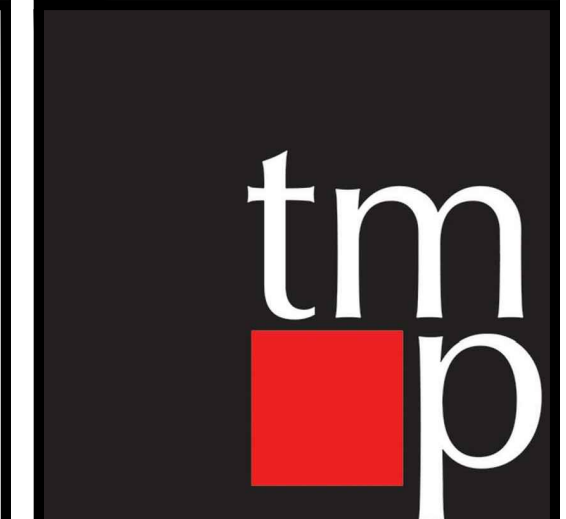


DEMOLITION LEGEND

	REMOVE EXISTING PAVEMENT
	REMOVE BRUSH / TREES
	REMOVE DIRT PILE
	REMOVE CURB
	REMOVE TREE

EXISTING UTILITIES NOTE

CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.



TMPartners, PLLC
Architecture Interiors Planning

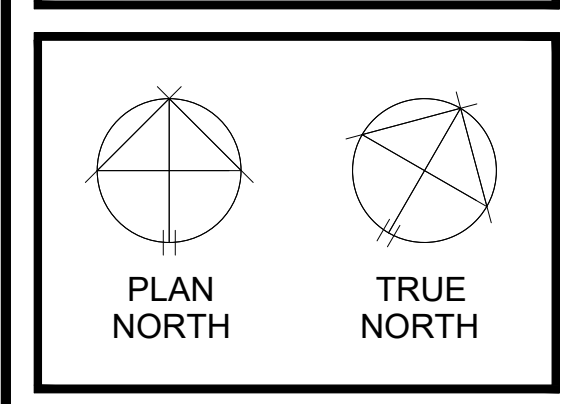
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Kimley»Horn

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**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**



REVISIONS

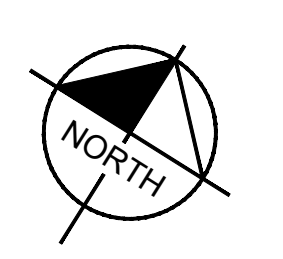
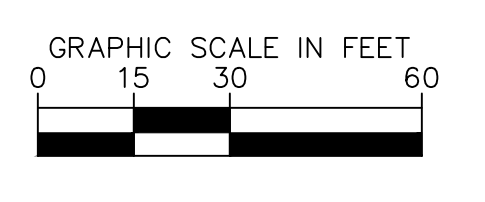
NO.	DATE	DESCRIPTION

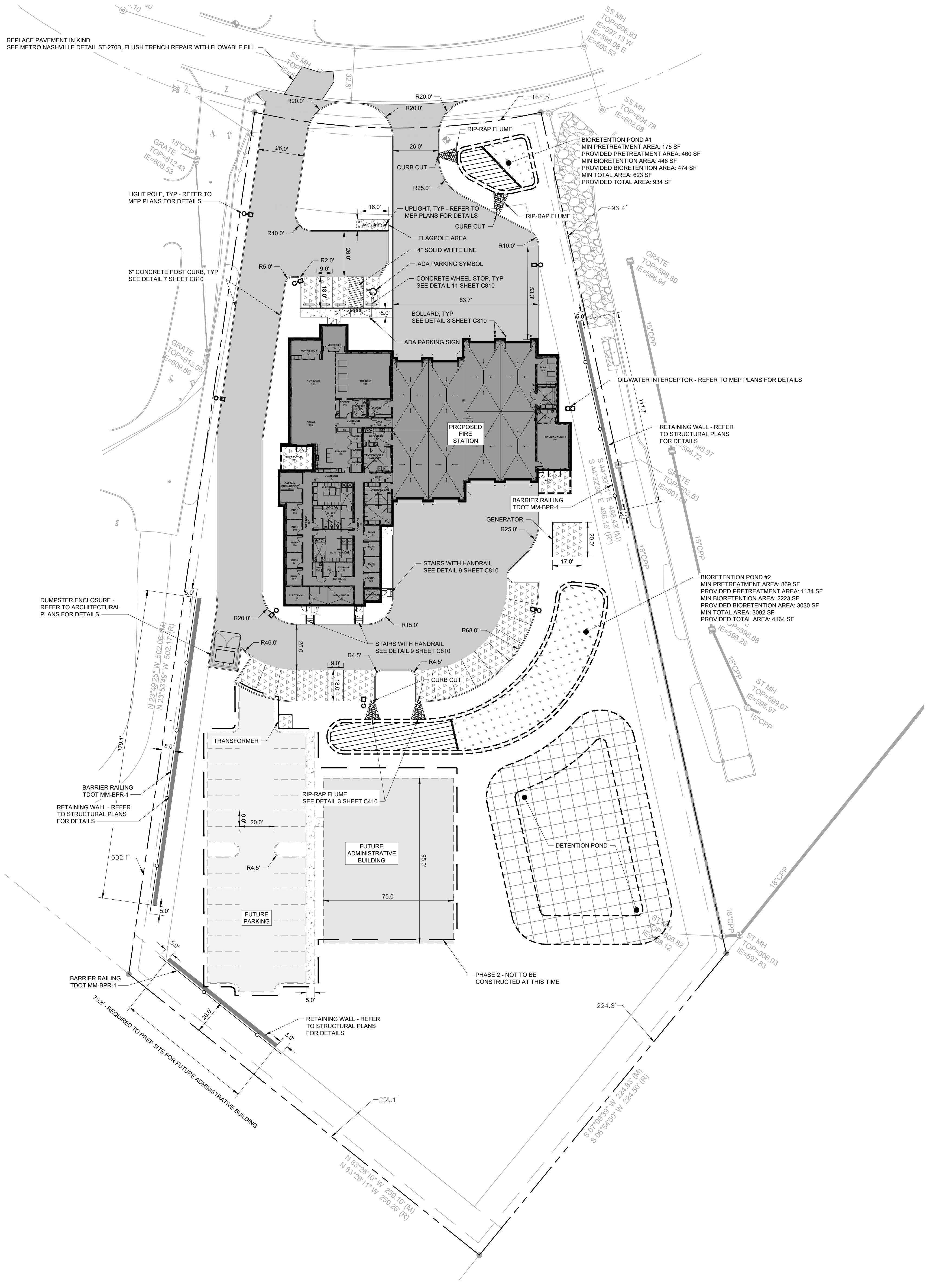
DR. BY: MTM
CK. BY: ZJD
PROJ. NO.: A01122
DATE: 03/03/2023

DEMOLITION PLAN

C110

CONSTRUCTION SET





RETAINING WALL NOTE

CONTRACTOR IS RESPONSIBLE FOR PROVIDING FULL DESIGN ALONG WITH SUPPORTING CALCULATIONS OF THE RETAINING WALL AND SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO ORDERING OF MATERIALS OR ANY CONSTRUCTION.

HATCH AND LINETYPE LEGEND

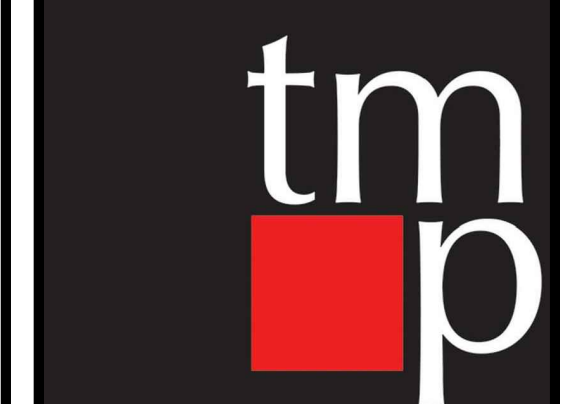
	PROPOSED BUILDING
	HEAVY DUTY CONCRETE PAVEMENT - REFER TO DETAIL 4 SHEET C810
	STANDARD DUTY CONCRETE PAVEMENT - REFER TO DETAIL 3 SHEET C810
	FUTURE ADMINISTRATIVE BUILDING
	FUTURE HEAVY DUTY CONCRETE PAVEMENT
	BIORETENTION POND
	DETENTION POND
	SITE LIGHTING - REFER TO ELECTRICAL PLANS
	RETAINING WALL
	PROPERTY LINE
	BUILDING LIMITS
	POND LIMITS

SITE DATA TABLE

SITE ADDRESS	7231 HALEY INDUSTRIAL DRIVE NOLENSVILLE, TN, 37135	
TAX MAP	MAP 056 PARCEL 05213	
	EXISTING	PROPOSED
OVERALL AREA		
SITE AREA	3.52 AC	3.52 AC
DISTURBED AREA	N/A	3.56 AC
IMPERVIOUS AREA	0.00 AC	1.14 AC
PERVIOUS AREA	3.52 AC	2.37 AC
	REQUIRED	PROVIDED
BUILDING SETBACKS		
FRONT: NORTH	50'	113'
REAR: SOUTH	20'	229'
SIDE: EAST	20'	20'
SIDE: WEST	20'	37'
	REQUIRED	PROVIDED
PARKING		
STANDARD SPACES	18	20
ACCESSIBLE SPACES	1	1
TOTAL VEHICULAR PARKING	19	21
FUTURE ADMINISTRATIVE PARKING	N/A	30

SITE NOTES

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY/STATE REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- THE SUBJECT PROPERTY IS LOCATED IN AREAS DESIGNATED AS "ZONE X" (AREA OF MINIMAL FLOOD HAZARD) AS NOTED ON THE CURRENT FEMA FIRM COMMUNITY PANEL 471870202G.



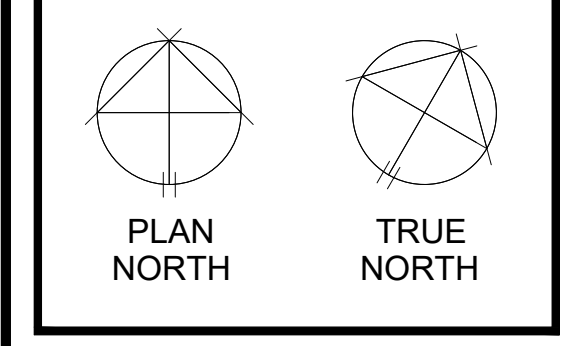
TMPartners, PLLC
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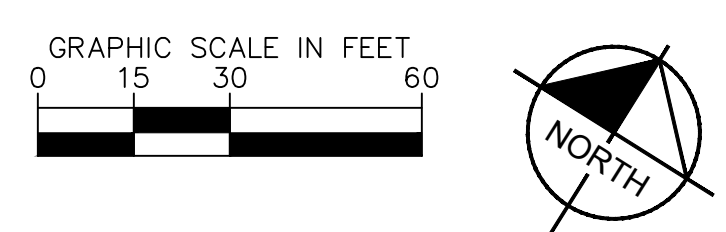
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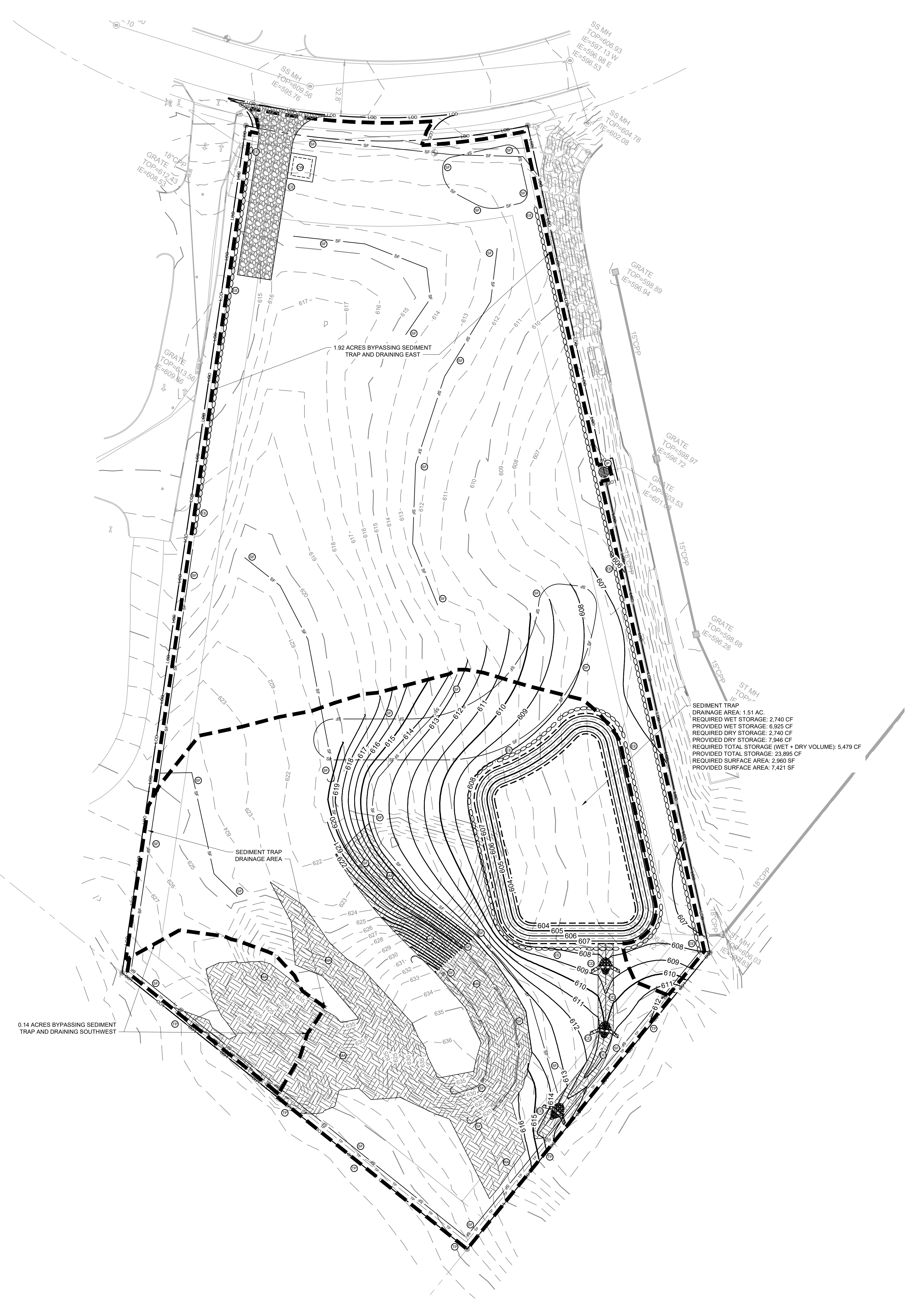
REVISIONS

DR. BY	MTM
CK. BY	ZJD
PROJ. NO.	A01122
DATE	03/03/2023

CONSTRUCTION SET



**SITE LAYOUT
C200**



EROSION CONTROL LEGEND

	OUTLET PROTECTION - REFER TO DETAIL 1 SHEET C350
	DIVERSION DITCH - REFER TO DETAIL 2 SHEET C350
	INLET PROTECTION - REFER TO DETAIL 3 SHEET C350
	CONSTRUCTION EXIT - REFER TO DETAIL 4 SHEET C350
	EROSION CONTROL MATTING CONTRACTOR TO INSTALL ON ALL SLOPES 3(H):1(V) OR STEEPER - REFER TO DETAIL 5 SHEET C350
	EROSION EELS - REFER TO DETAIL 6 SHEET C350
	CONCRETE WASHOUT - REFER TO DETAIL 7 SHEET C350
	SILT FENCE - REFER TO DETAIL 8 SHEET C350
	PERMANENT STABILIZATION - REFER TO DETAIL 9 SHEET C350
	ROCK CHECK DAM - REFER TO DETAIL 10 SHEET C350
	TREE PROTECTION FENCING - REFER TO DETAIL 11 SHEET C351
	LIMITS OF DISTURBANCE - 3.56 ACRES

- ### EROSION CONTROL NOTES
- STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS. STOCK PILE LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO GRADING ACTIVITIES. EROSION & SEDIMENT CONTROL PRACTICE SHALL BE INSTALLED PRIOR TO STOCKPILE OPERATIONS.
 - ANY SITE USED FOR DISPOSAL AND/OR STOCKPILE OF ANY MATERIAL SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL REQUIRED PERMITS ARE SECURED FOR EACH PROPERTY UTILIZED. A COPY OF THE APPROVED PERMIT MUST BE PROVIDED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK ON ANY PROPERTY. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING ANY ILLEGALLY PLACED MATERIAL AT HIS OWN EXPENSE.
 - CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
 - MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED (WITHIN 15 DAYS OF ACHIEVED FINAL GRADES) UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION STEEP SLOPES (GREATER THAN 3:1) SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
 - REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
 - CLEAN SILT BARRIERS WHEN THEY ARE APPROXIMATELY 50% FILLED WITH SEDIMENT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. SILT BARRIERS SHALL BE REPLACED AS EFFECTIVENESS IS SIGNIFICANTLY REDUCED OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
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 - PROVIDE TEMPORARY CONSTRUCTION ACCESS(S) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
 - DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
 - STABILIZATION MEASURES (SEED & MULCH, TRM WHERE INDICATED) SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, EXCEPT IN THE FOLLOWING TWO CASES.
 - WHERE THERE IS SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE ON WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 15 DAYS. TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE.
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 - CONTRACTOR TO PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT REFUELING IN ACCORDANCE WITH TDEC'S STANDARDS. CONTRACTOR TO COORDINATE EXACT LOCATION WITH NPDES DEPARTMENT DURING PRECONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMITEE.

- ### EROSION CONTROL CONSTRUCTION SEQUENCE
- PHASE I:**
- CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE, SILT FENCE, TREE PROTECTION FENCING, EROSION EELS, INLET PROTECTION AND CONCRETE WASHOUT ON SITE PRIOR TO DEMOLITION BEGINNING.
 - SILT FENCE IS TO BE INSTALLED AROUND ALL BIOPRETENTION AREAS TO PROTECT FROM SOIL COMPACTION DURING CONSTRUCTION.
 - CONTRACTOR TO GRADE IN TEMPORARY SEDIMENT TRAP ON SITE.
 - AFTER PERIMETER MEASURES ARE INSTALLED, CONTRACTOR SHALL SCHEDULE PRE-CONSTRUCTION MEETING WITH METRO WATER SERVICES.
 - ALL 3:1 OR STEEPER SLOPES TO BE STABILIZED WITHIN 7 DAYS.
- PHASE II:**
- CONTRACTOR TO CLEAR, GRUB, AND EXCAVATE EXISTING INFRASTRUCTURE ON SITE.
 - INSTALL PROPOSED UTILITIES INCLUDING PROPOSED STORM INLETS WITH PROTECTION.
- PHASE III:**
- CONTRACTOR TO CLEAR, GRUB, AND GRADE REMAINING SITE.
 - CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, OR AS INSTRUCTED BY THE EROSION CONTROL INSPECTOR.
 - PERMANENTLY STABILIZE SITE.
 - UPON PERMANENT SITE STABILIZATION, REMOVE SILT FENCE, TREE PROTECTION, AND ALL OTHER TEMPORARY EROSION CONTROL DEVICES.
 - REMOVE SEDIMENT FROM SEDIMENT TRAP, CONVERT TO DETENTION POND, AND INSTALL PROPOSED OUTLET STRUCTURE.
 - FINISH INSTALLING PERMANENT STORMWATER BMP'S SHOWN ON PHASE 3 EROSION CONTROL PLANS.

TDEC NOTICE OF COVERAGE NOTE

THIS PROJECT DISTURBS MORE THAN 1 ACRE AND HAS RECEIVED A NOTICE OF COVERAGE UNDER THE TENNESSEE GENERAL CONSTRUCTION PERMIT FROM TDEC.

THIS PROJECT DISCHARGES TO MILL CREEK
THE TOTAL DISTURBED AREA IS +/- 3.56 ACRES

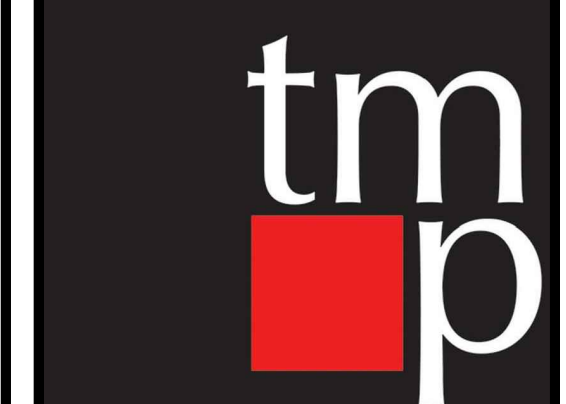
TRACKING NO. TNR246561
EFFECTIVE DATE: FEBRUARY 6, 2023

SITE PERIMETER NOTE

CONTRACTOR TO INSTALL AN ENTIRE SITE PERIMETER FENCE, TO REMAIN FOR THE DURATION OF CONSTRUCTION, PER TOWN OF NOLENSVILLE REQUEST.

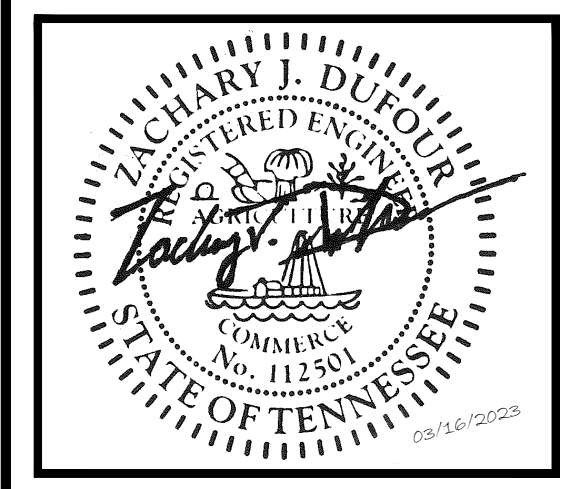
0.14 ACRES BYPASSING SEDIMENT TRAP AND DRAINING SOUTHWEST

SEDIMENT TRAP
DRAINAGE AREA: 1.51 AC.
REQUIRED WET STORAGE: 2,740 CF
PROVIDED WET STORAGE: 6,925 CF
REQUIRED DRY STORAGE: 2,740 CF
PROVIDED DRY STORAGE: 7,548 CF
REQUIRED TOTAL STORAGE (WET + DRY VOLUME): 5,479 CF
PROVIDED TOTAL STORAGE: 23,893 CF
REQUIRED SURFACE AREA: 2,960 SF
PROVIDED SURFACE AREA: 7,421 SF



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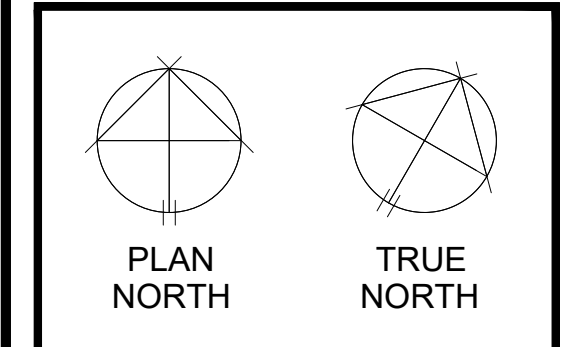
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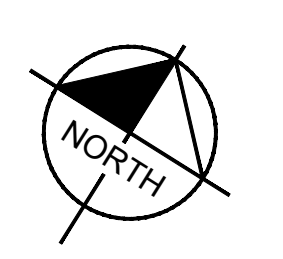
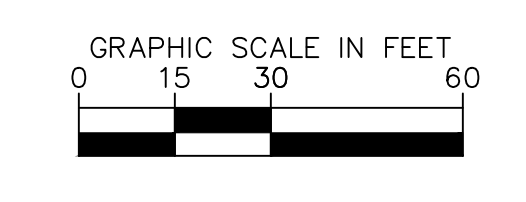
1	03/16/2023	ADDENDUM 01
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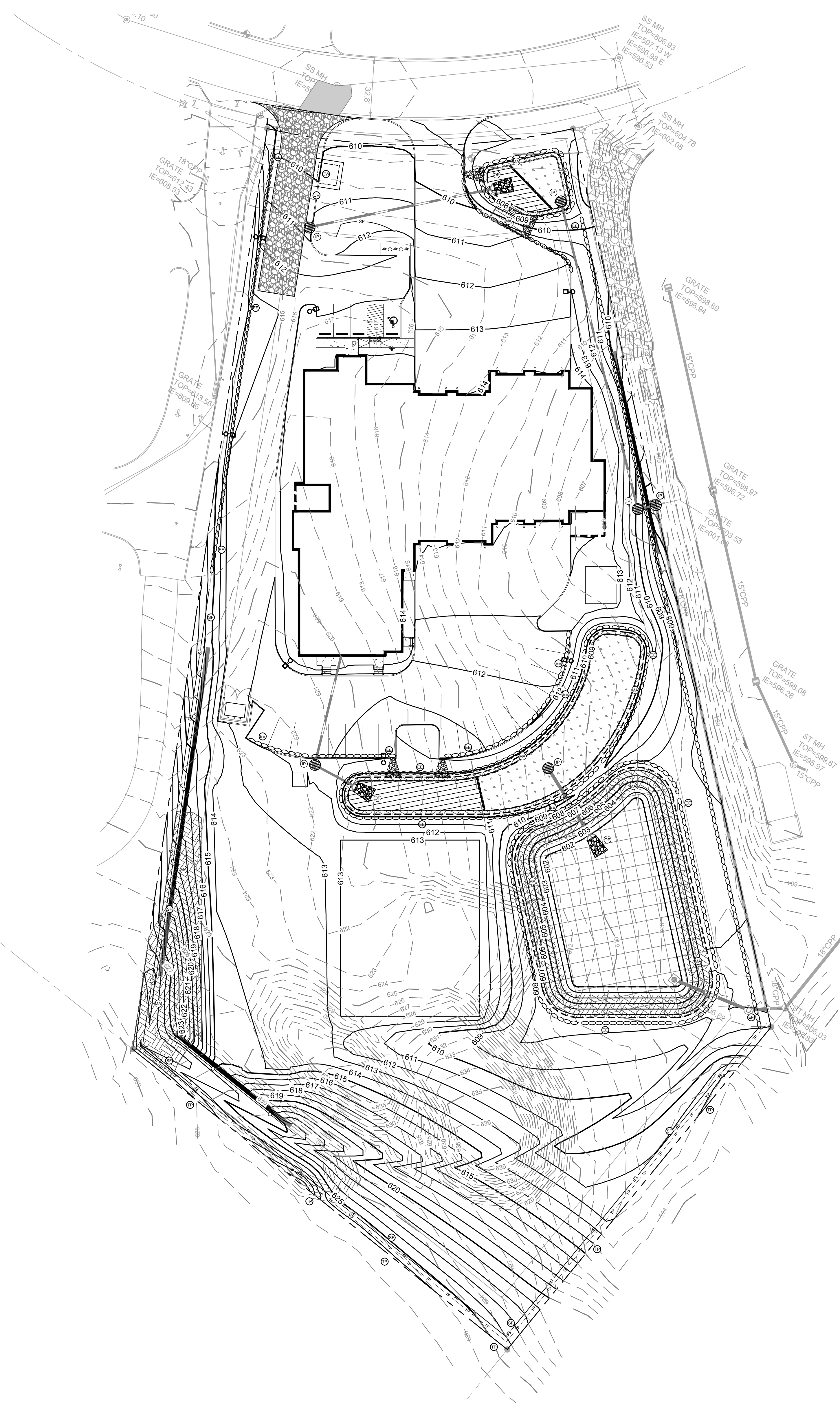
DR. BY	MTM
CK. BY	ZJD
PROJ. NO.	A01122
DATE	03/16/2023

**EROSION CONTROL
PLAN - PHASE 1**

C310

CONSTRUCTION SET





EROSION CONTROL LEGEND

	OP	OUTLET PROTECTION - REFER TO DETAIL 1 SHEET C350
	DD	DIVERSION DITCH - REFER TO DETAIL 2 SHEET C350
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	LD	LIMITS OF DISTURBANCE - 3.56 ACRES

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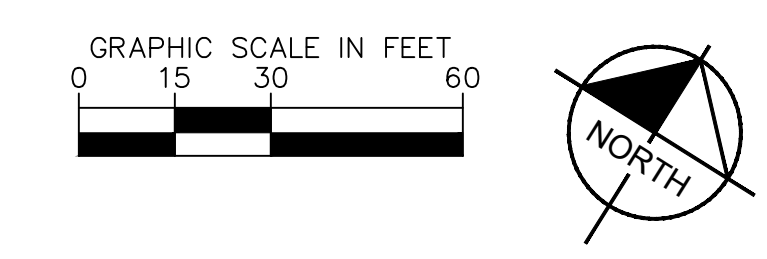
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TRACKING NO. TNR246561
EFFECTIVE DATE: FEBRUARY 6, 2023

SITE PERIMETER NOTE

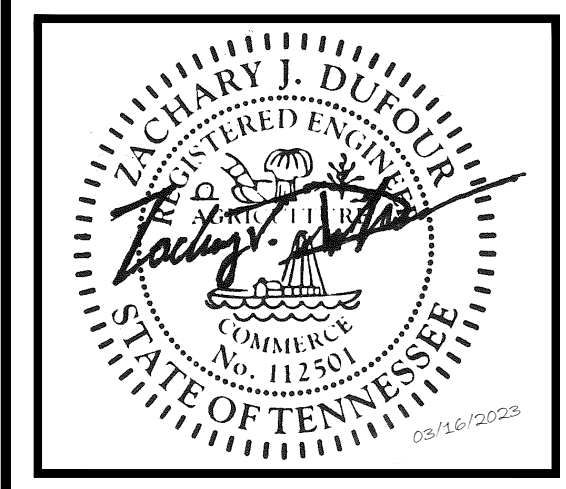
CONTRACTOR TO INSTALL AN ENTIRE SITE PERIMETER FENCE, TO REMAIN FOR THE DURATION OF CONSTRUCTION, PER TOWN OF NOLENSVILLE REQUEST.

CONSTRUCTION SET



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Architecture Interiors Planning

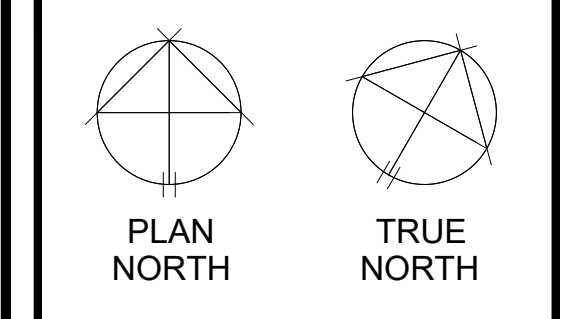
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REVISIONS

1	03/16/2023	ADDENDUM 01
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DR. BY	MTM
CK. BY	ZJD
PROJ. NO.	A01122
DATE	03/16/2023

**EROSION CONTROL
PLAN - PHASE 2**

C320

EROSION CONTROL LEGEND

	OP	OUTLET PROTECTION - REFER TO DETAIL 1 SHEET C350
	DD	DIVERSION DITCH - REFER TO DETAIL 2 SHEET C350
	IP	INLET PROTECTION - REFER TO DETAIL 3 SHEET C350
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 - PROVIDE TEMPORARY CONSTRUCTION ACCESS (AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
 - DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
 - STABILIZATION MEASURES (SEED & MULCH, TRIM WHERE INDICATED) SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, EXCEPT IN THE FOLLOWING TWO CASES:
 - WHERE THERE IS SNOW COVER OR FROZEN GROUND CONDITIONS. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE ON WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 15 DAYS. TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE.
 - ALL EROSION CONTROL MEASURES SHALL BE CHECKED TWICE WEEKLY DURING PROLONGED RAINFALL DAILY CHECKING IS NECESSARY. DOCUMENTATION OF ALL CHECKS AND CORRECTIVE MEASURES SHALL BE KEPT AT THE PROJECT. A MONITORING REPORT CAN BE FOUND IN THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK.
 - CONTRACTOR TO PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT REFUELING IN ACCORDANCE WITH TDEC'S STANDARDS. CONTRACTOR TO COORDINATE EXACT LOCATION WITH NPDES DEPARTMENT DURING PRECONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS OIL MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMITEE.

- EROSION CONTROL CONSTRUCTION SEQUENCE**
- PHASE I:**
- CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE, SILT FENCE, TREE PROTECTION FENCING, EROSION EELS, INLET PROTECTION, AND CONCRETE WASHOUT ON SITE PRIOR TO DEMOLITION BEGINNING.
 - SILT FENCE IS TO BE INSTALLED AROUND ALL BIOPRETENTION AREAS TO PROTECT FROM SOIL COMPACTION DURING CONSTRUCTION.
 - CONTRACTOR TO GRADE IN TEMPORARY SEDIMENT TRAP ON SITE.
 - AFTER PERIMETER MEASURES ARE INSTALLED, CONTRACTOR SHALL SCHEDULE PRE-CONSTRUCTION MEETING WITH METRO WATER SERVICES.
 - ALL 3:1 OR STEEPER SLOPES TO BE STABILIZED WITHIN 7 DAYS.
- PHASE II:**
- CONTRACTOR TO CLEAR, GRUB, AND EXCAVATE EXISTING INFRASTRUCTURE ON SITE.
 - INSTALL PROPOSED UTILITIES INCLUDING PROPOSED STORM INLETS WITH PROTECTION.
- PHASE III:**
- CONTRACTOR TO CLEAR, GRUB, AND GRADE REMAINING SITE.
 - CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, OR AS INSTRUCTED BY THE EROSION CONTROL INSPECTOR.
 - PERMANENTLY STABILIZE SITE.
 - UPON PERMANENT SITE STABILIZATION, REMOVE SILT FENCE, TREE PROTECTION, AND ALL OTHER TEMPORARY EROSION CONTROL DEVICES.
 - REMOVE SEDIMENT FROM SEDIMENT TRAP. CONVERT TO DETENTION POND, AND INSTALL PROPOSED OUTLET STRUCTURE.
 - FINISH INSTALLING PERMANENT STORMWATER BMP'S SHOWN ON PHASE 3 EROSION CONTROL PLANS.

TDEC NOTICE OF COVERAGE NOTE

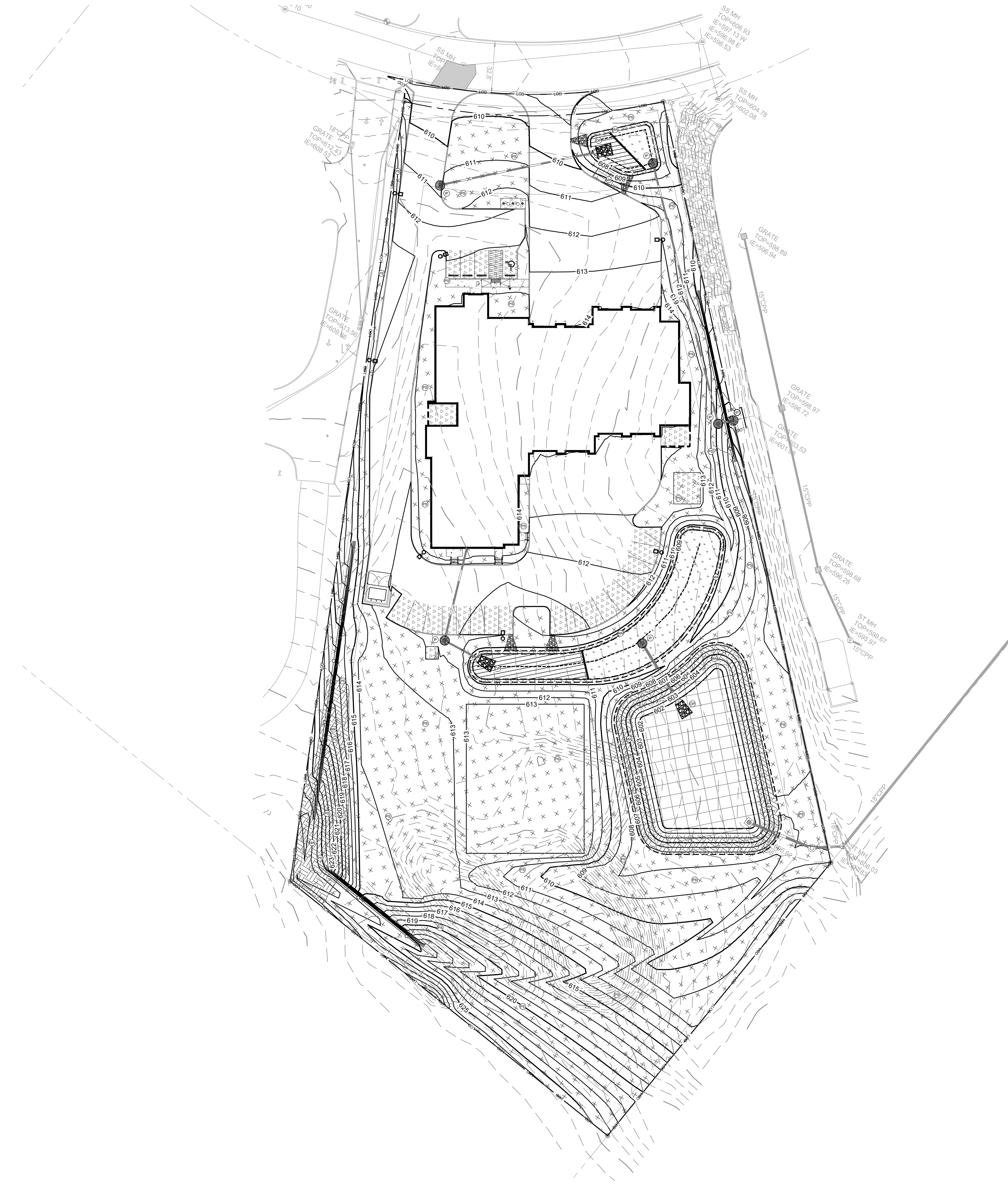
THIS PROJECT DISTURBS MORE THAN 1 ACRE AND HAS RECEIVED A NOTICE OF COVERAGE UNDER THE TENNESSEE GENERAL CONSTRUCTION PERMIT FROM TDEC.

THIS PROJECT DISCHARGES TO MILL CREEK
THE TOTAL DISTURBED AREA IS +/- 3.56 ACRES

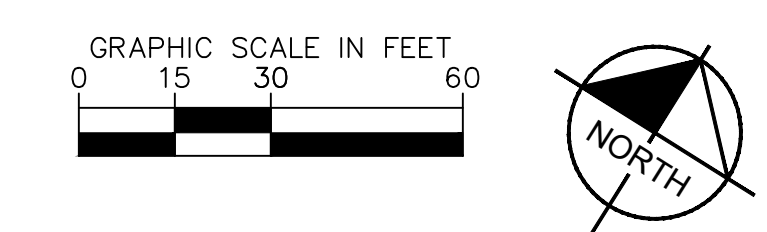
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EFFECTIVE DATE: FEBRUARY 6, 2023

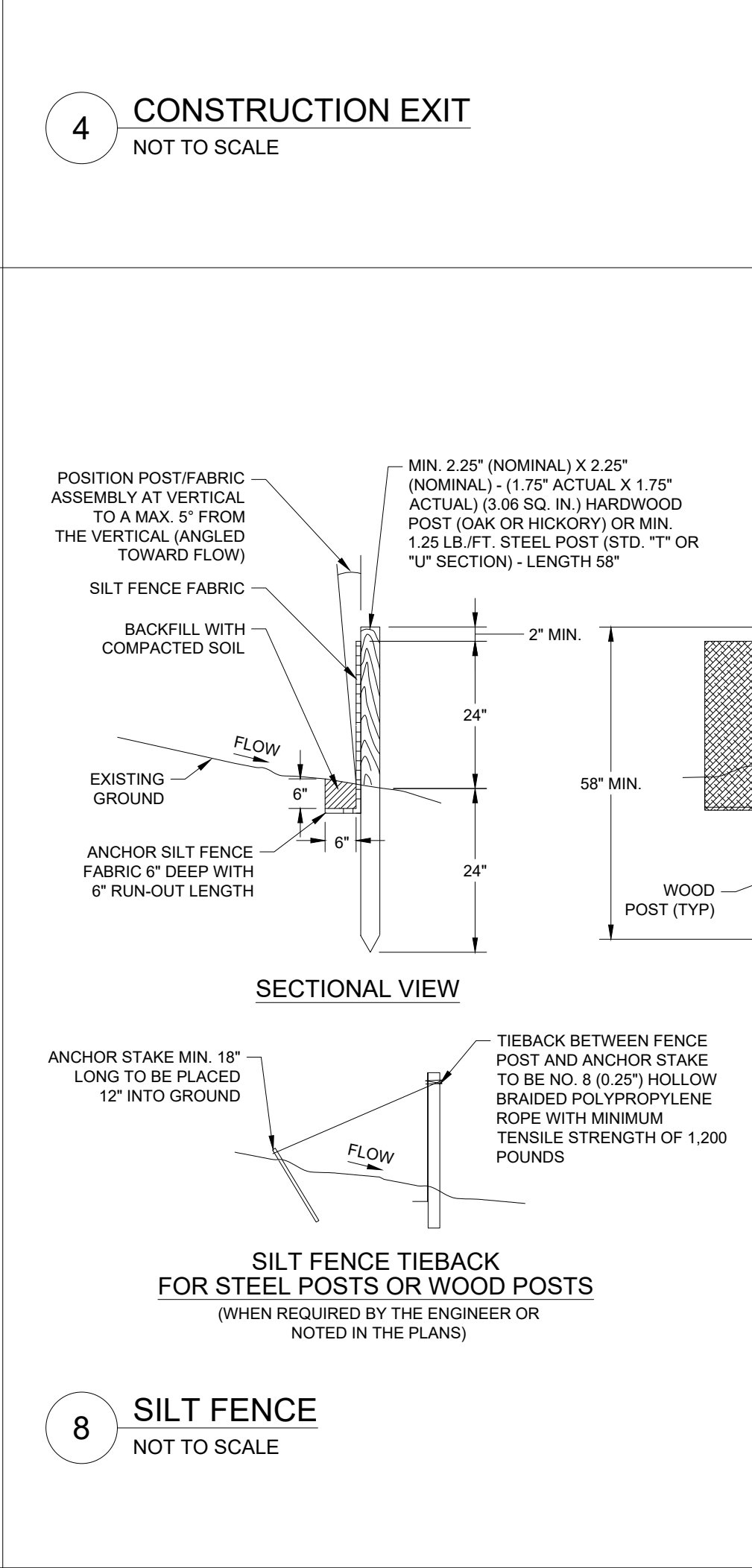
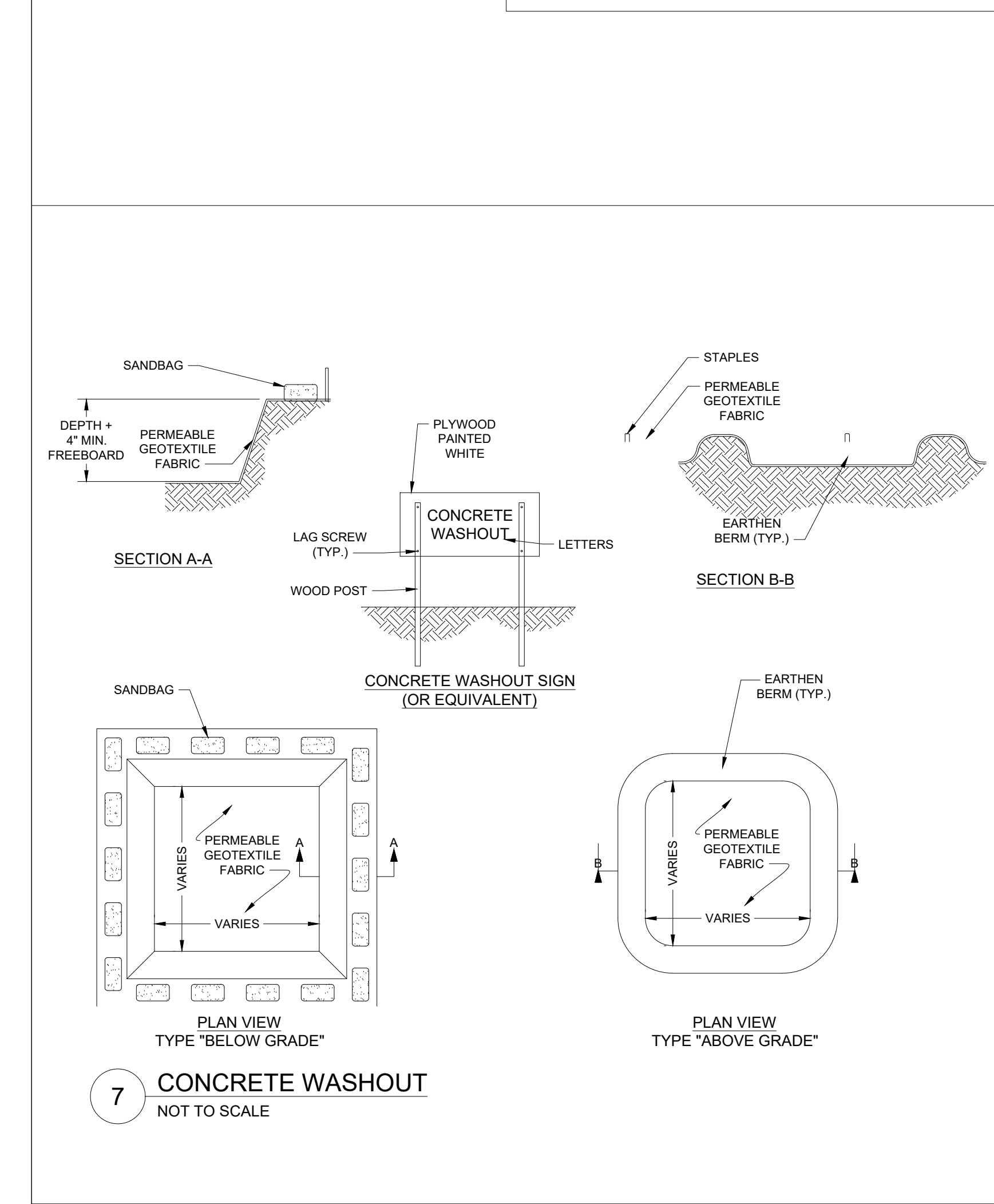
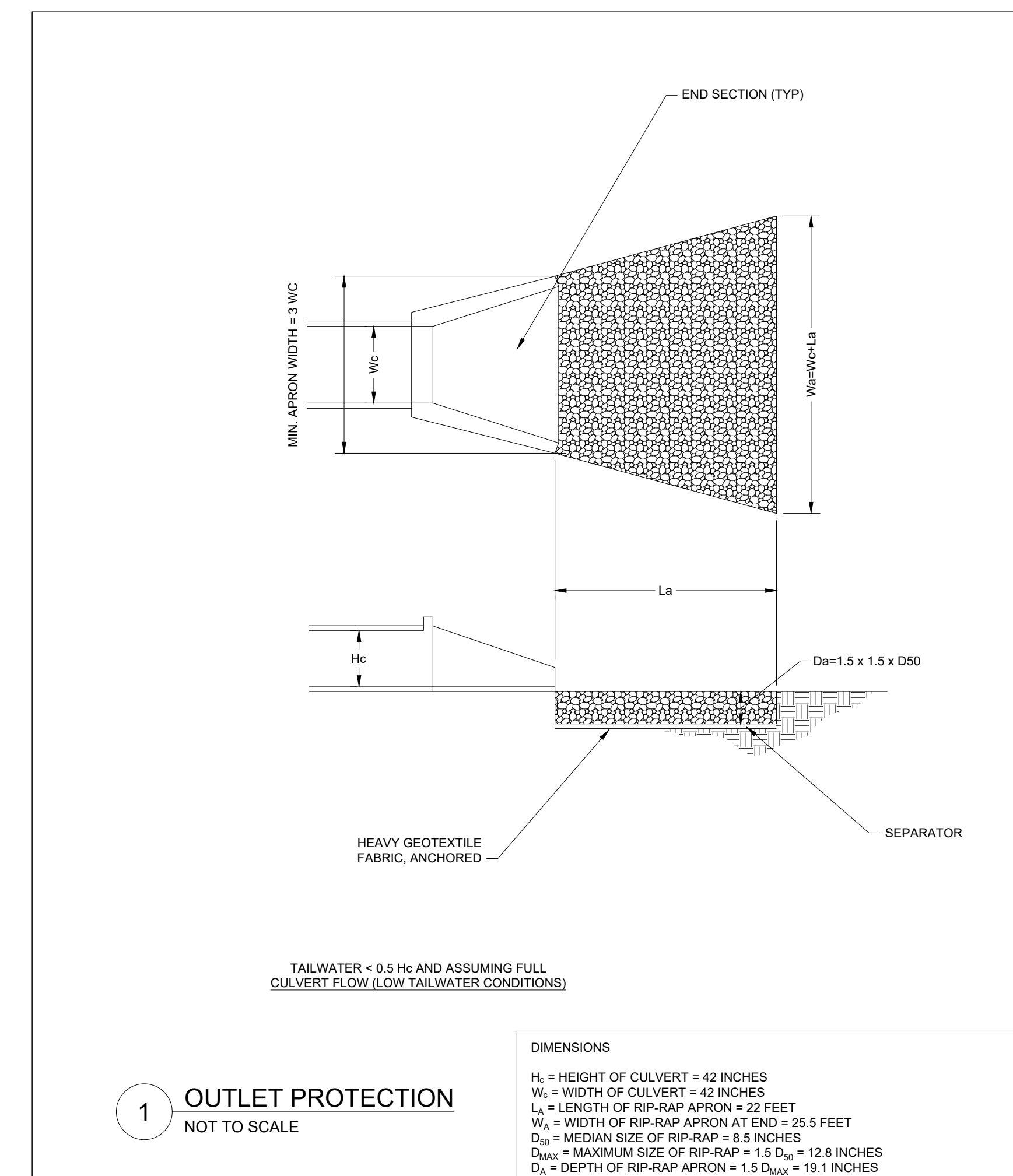
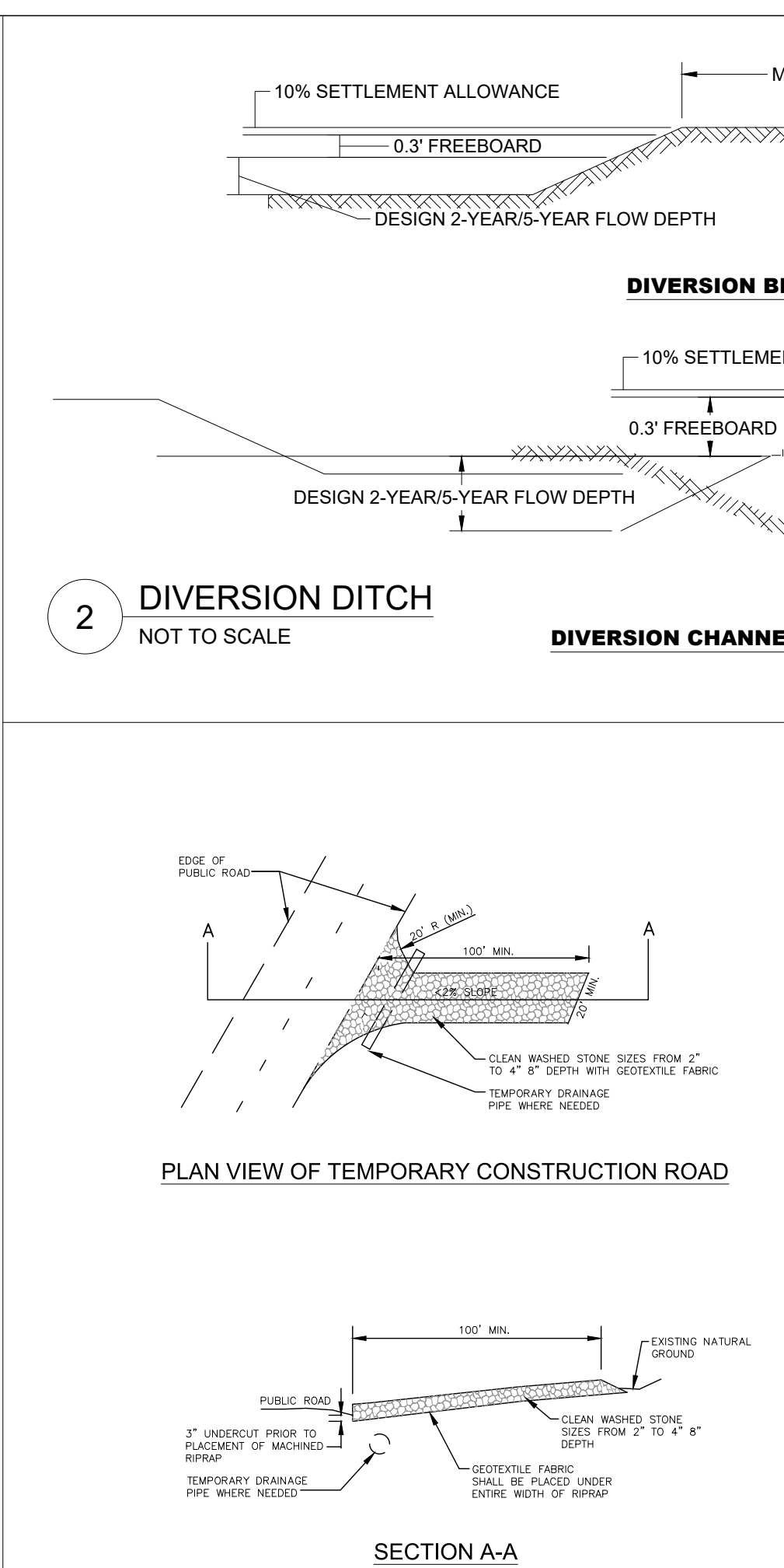
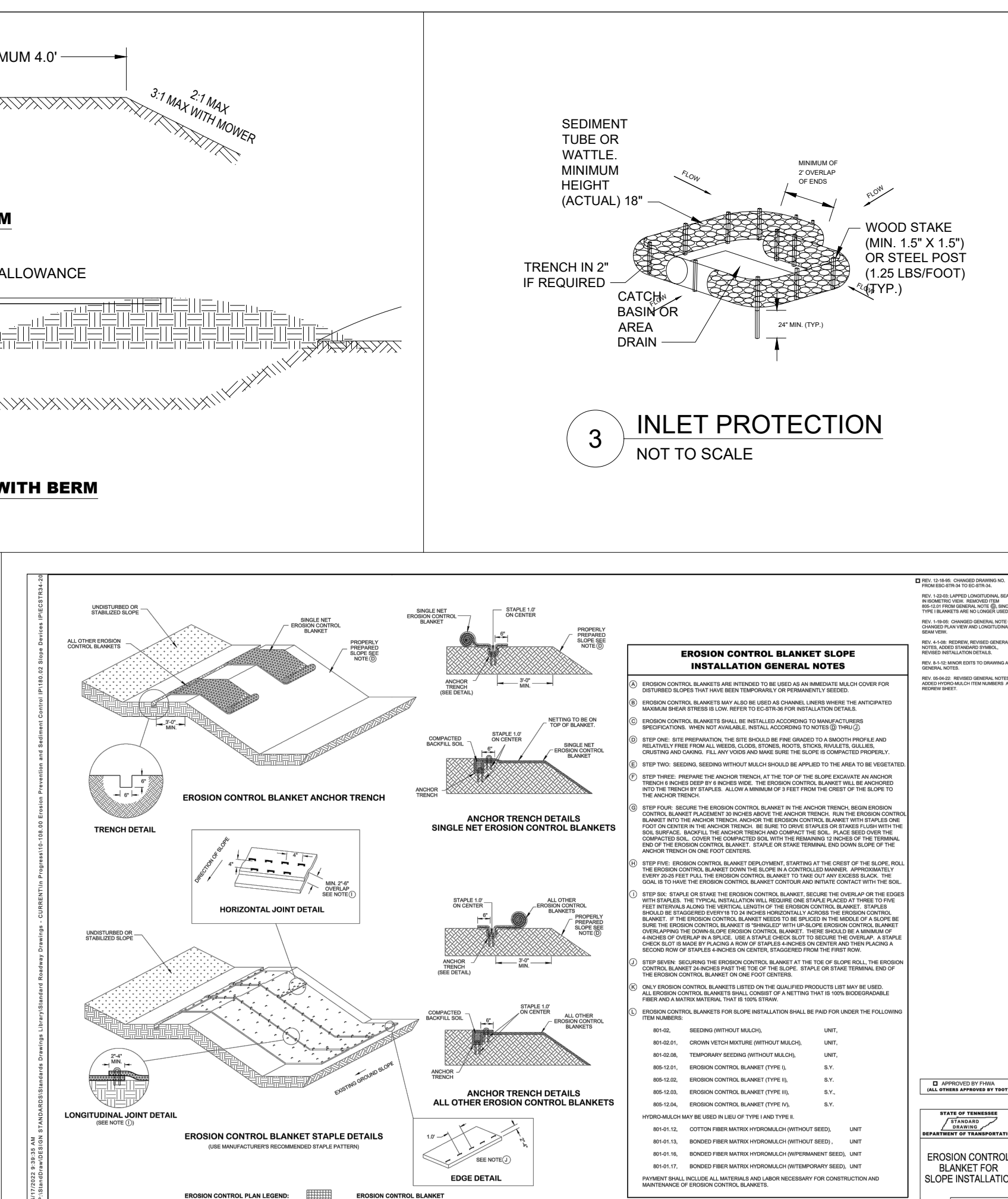
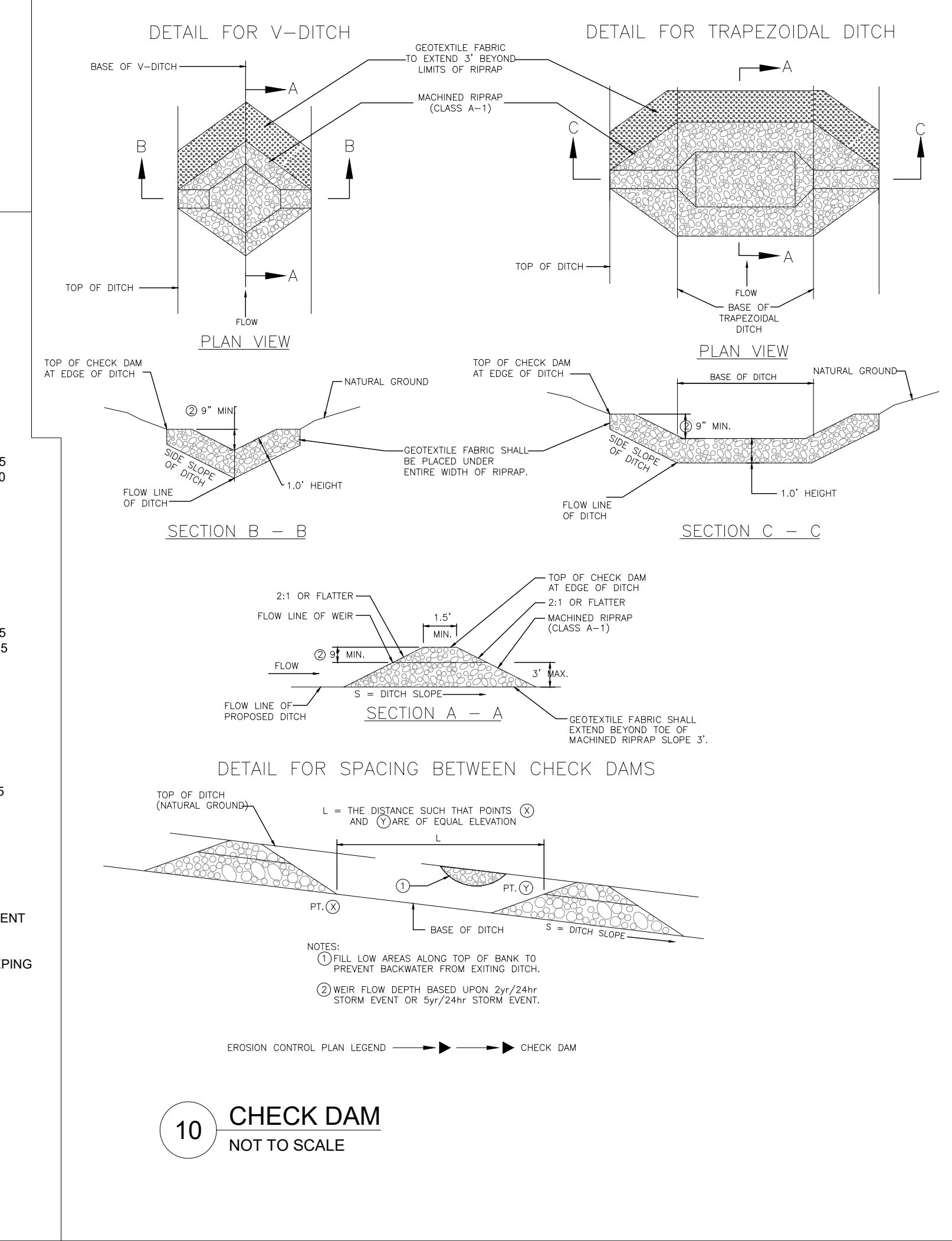
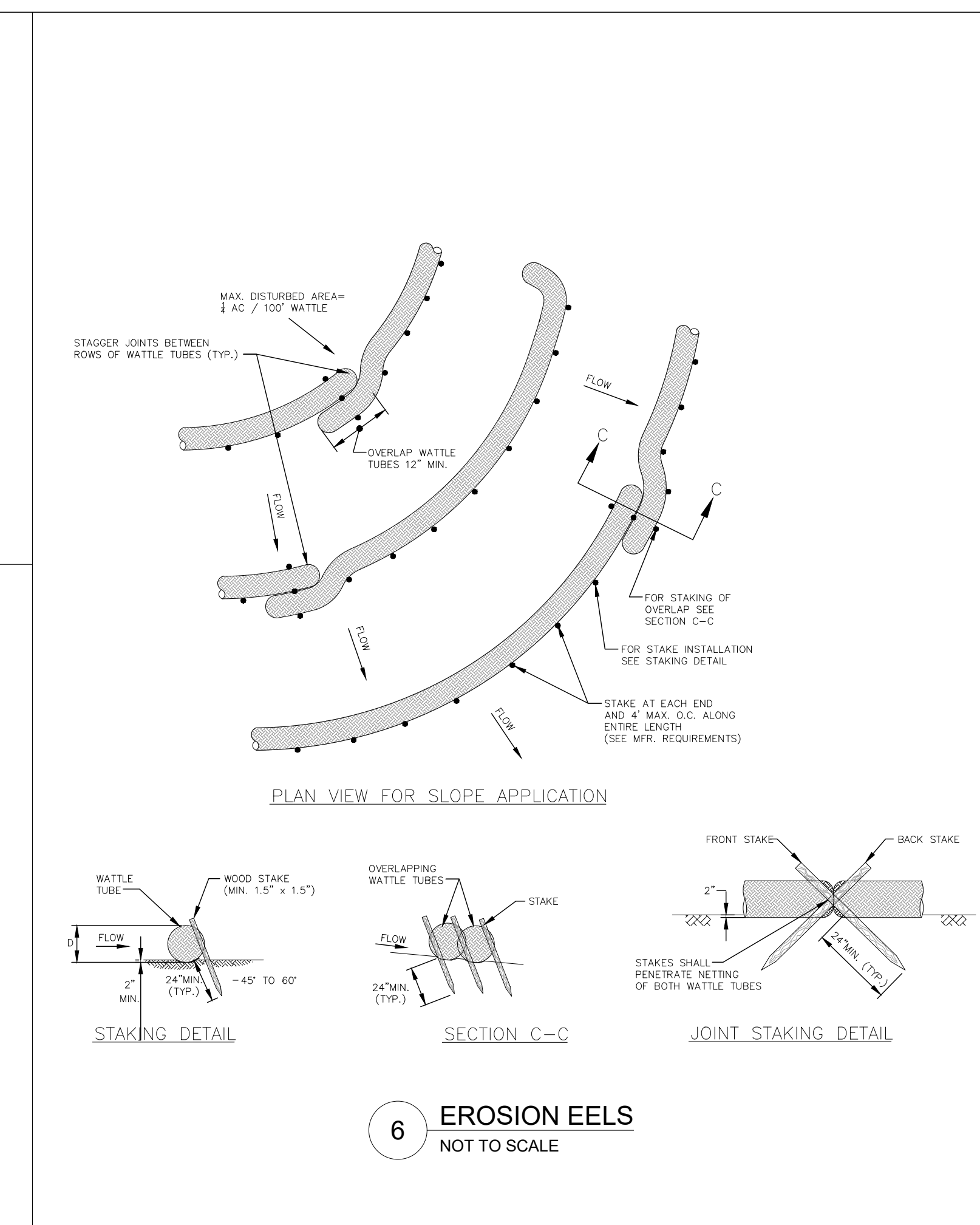
SITE PERIMETER NOTE

CONTRACTOR TO INSTALL AN ENTIRE SITE PERIMETER FENCE, TO REMAIN FOR THE DURATION OF CONSTRUCTION, PER TOWN OF NOLENSVILLE REQUEST.



CONSTRUCTION SET





9 PERMANENT STABILIZATION
NOT TO SCALE

LOW MAINTENANCE AREAS - SLOPES, POOR AND SHALLOW SOILS

PREFERRED RATE MIX (LBI/AC PLS)

- 15 BROWN TOP MILLET (NURSE CROP)
- 5 LITTLE BLUESTEM
- 2 SWITCH GRASS
- 5 SIDAONIS GRAMMA
- 2 BLACK EYED SUSAN
- 2 PANTROGUE PEA
- 1 GREYHEADED CONEFLOWER

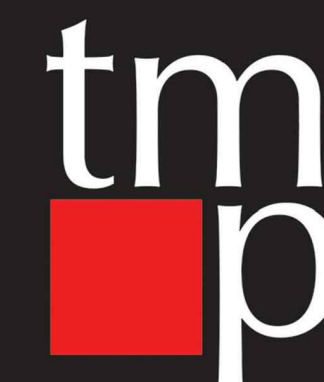
SEEDING DATES

BEST: AUG. 25 - SEP. 15
FEB. 15 - MAY 30

MARGINAL: SEP. 15 - OCT. 25
MAR. 21 - MAY 30

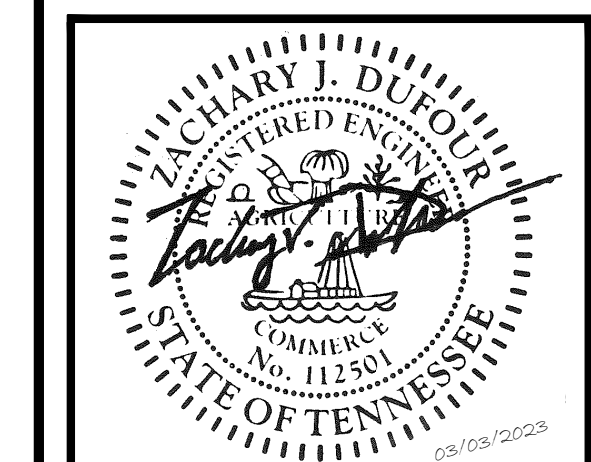
LOW MAINTENANCE AREAS - SLOPES, SOILS > 6\"/>

**CONSTRUCTION
SET**



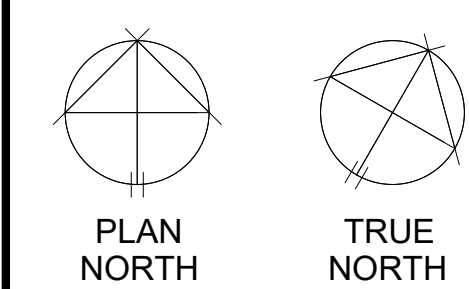
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**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

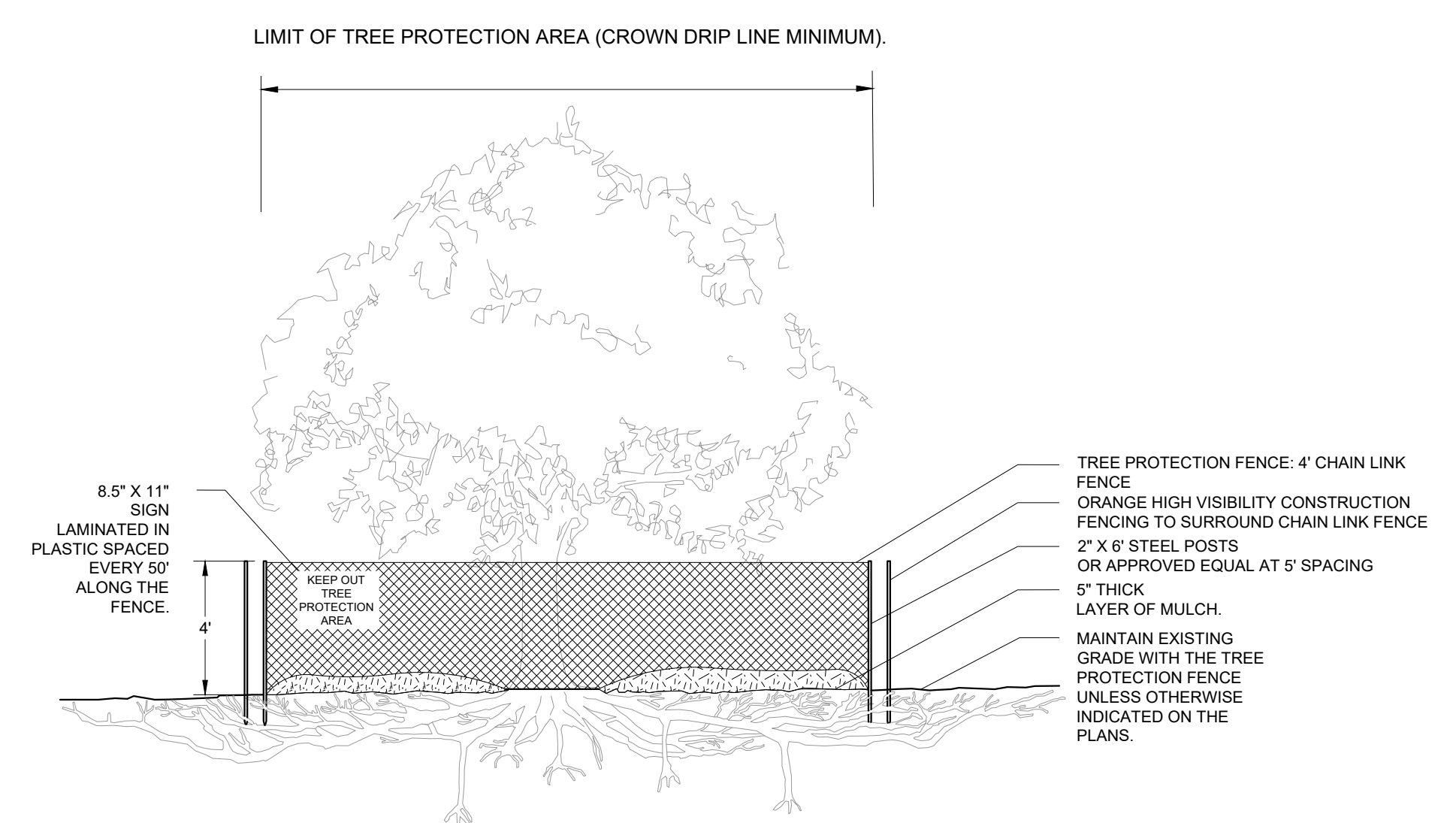


REVISIONS	

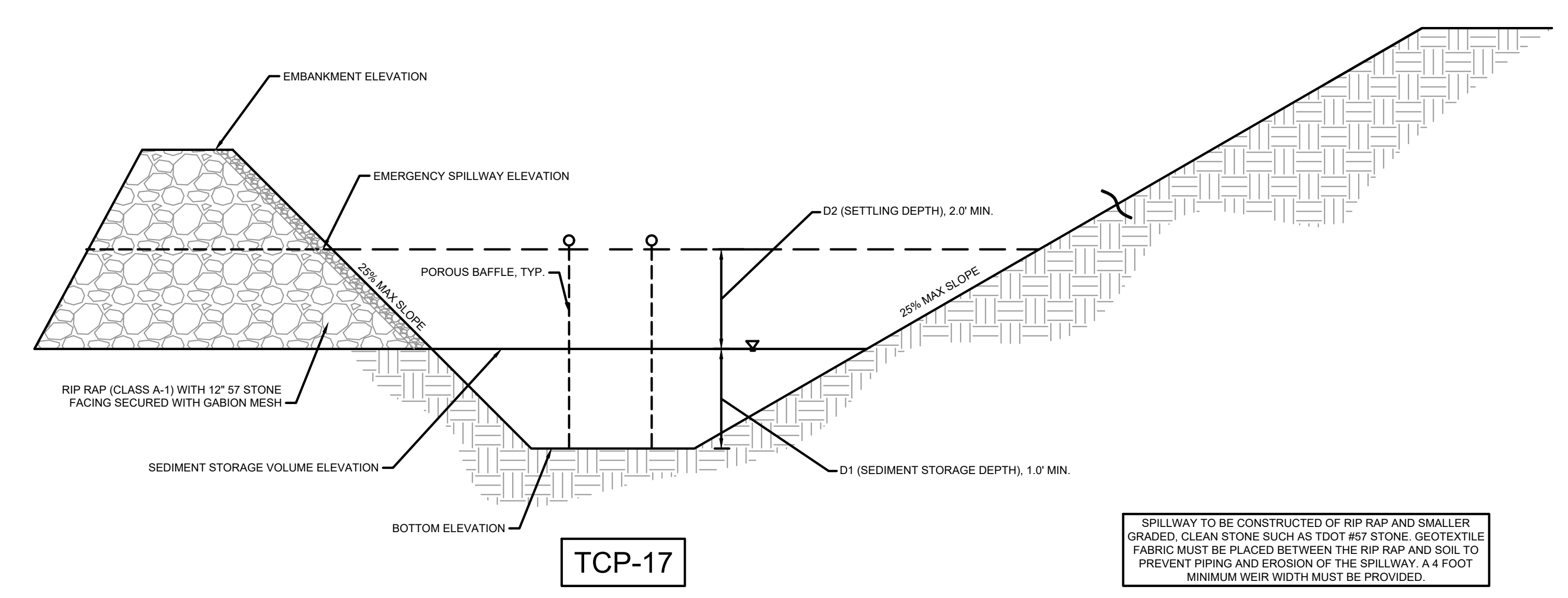
DR. BY: MTM
CK. BY: ZJD
PROJ. NO.: A01122
DATE: 03/03/2023

**EROSION CONTROL
DETAILS**

C351



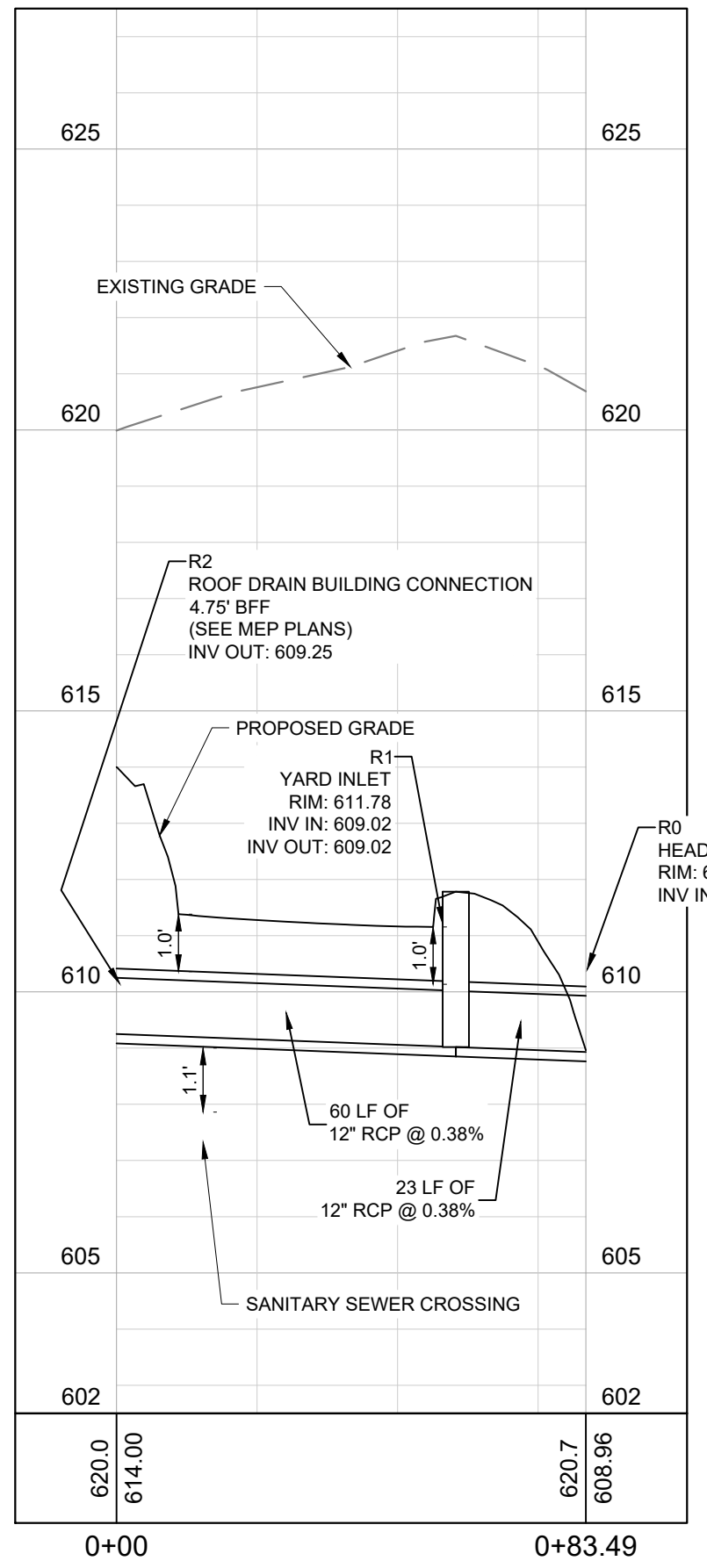
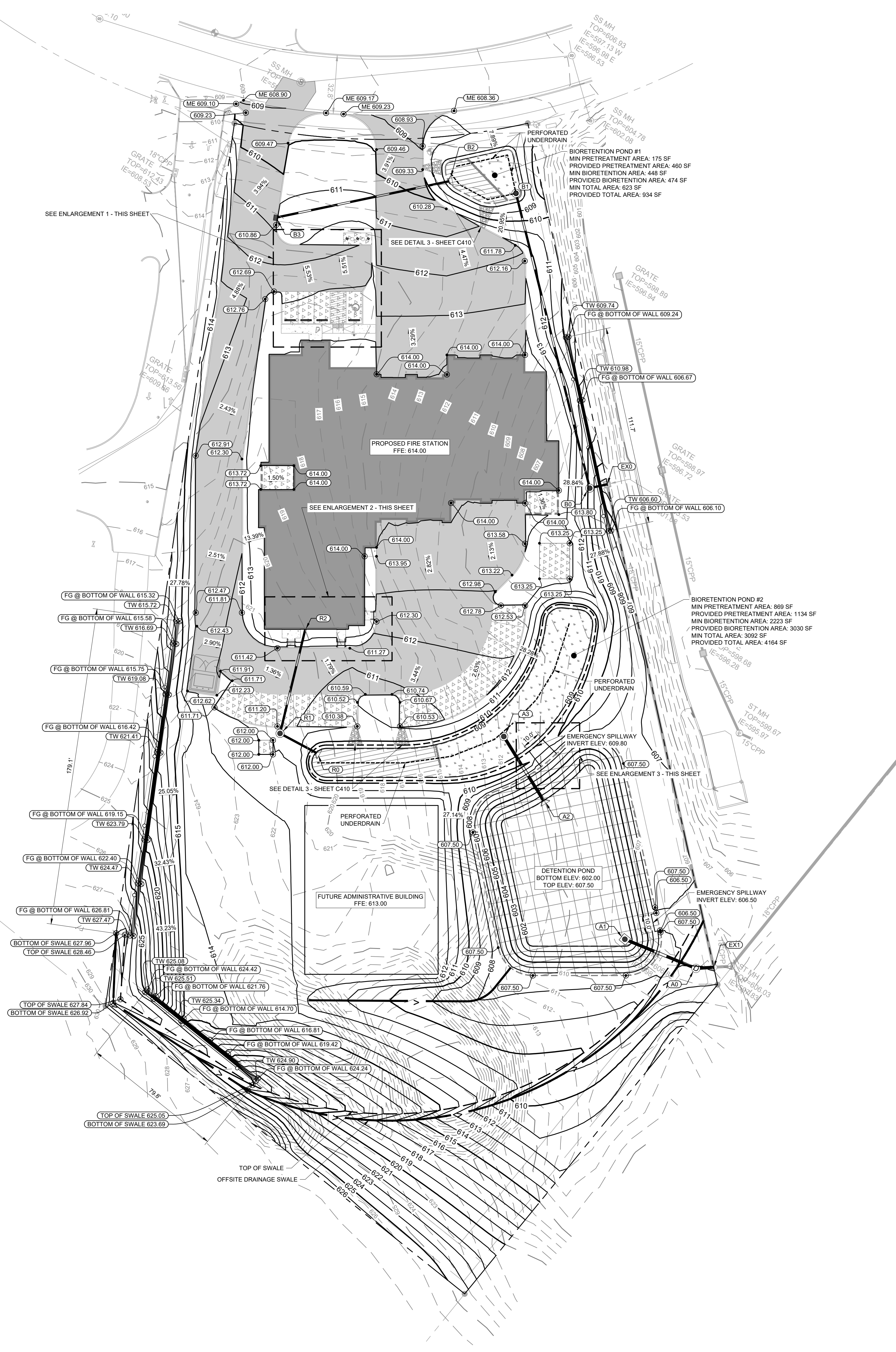
11 TREE PROTECTION FENCING
NOT TO SCALE



TEMPORARY SEDIMENT TRAPS											
TRAP	DRAINAGE AREA	REQ'D SEDIMENT STORAGE VOLUME (67 CY / AC = 1,809 CF / AC)	D1	PROVIDED SEDIMENT STORAGE VOLUME	REQ'D SETTLING VOLUME (67 CY / AC = 1,809 CF / AC)	D2	PROVIDED SETTLING VOLUME	BOTTOM ELEVATION	SEDIMENT STORAGE VOLUME ELEVATION	EMERGENCY SPILLWAY ELEVATION	EMBankment ELEVATION
1	1.51 ACRES	2,740 CF	1 FT	6,925 CF	2,740 CF	1 FT	7,946 CF	603.50	604.50	605.50	607.50

12 SEDIMENT TRAP
NOT TO SCALE

**CONSTRUCTION
SET**



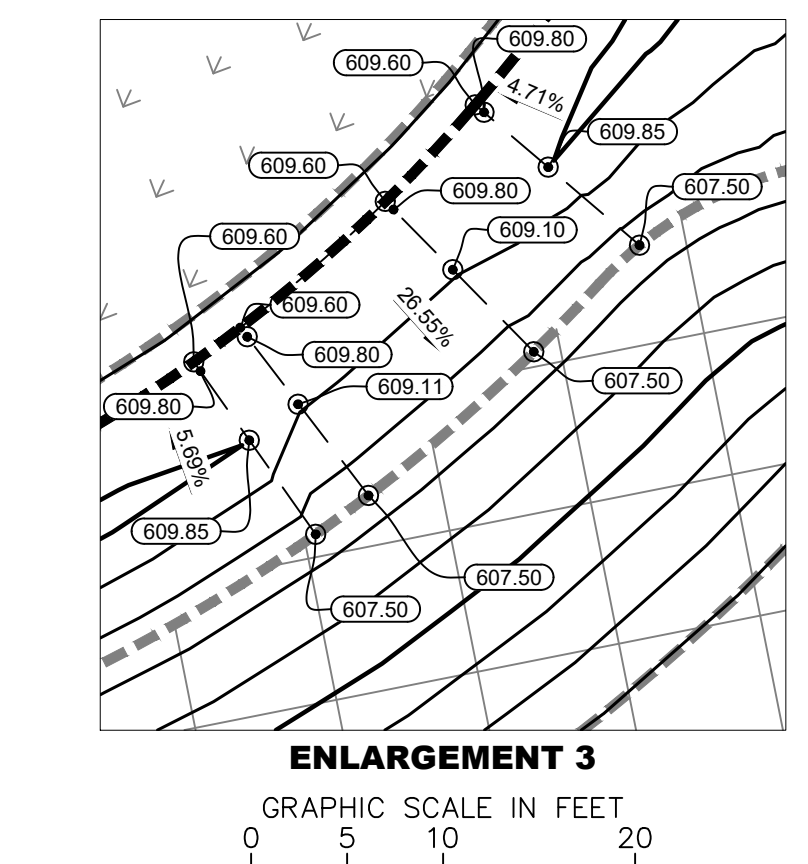
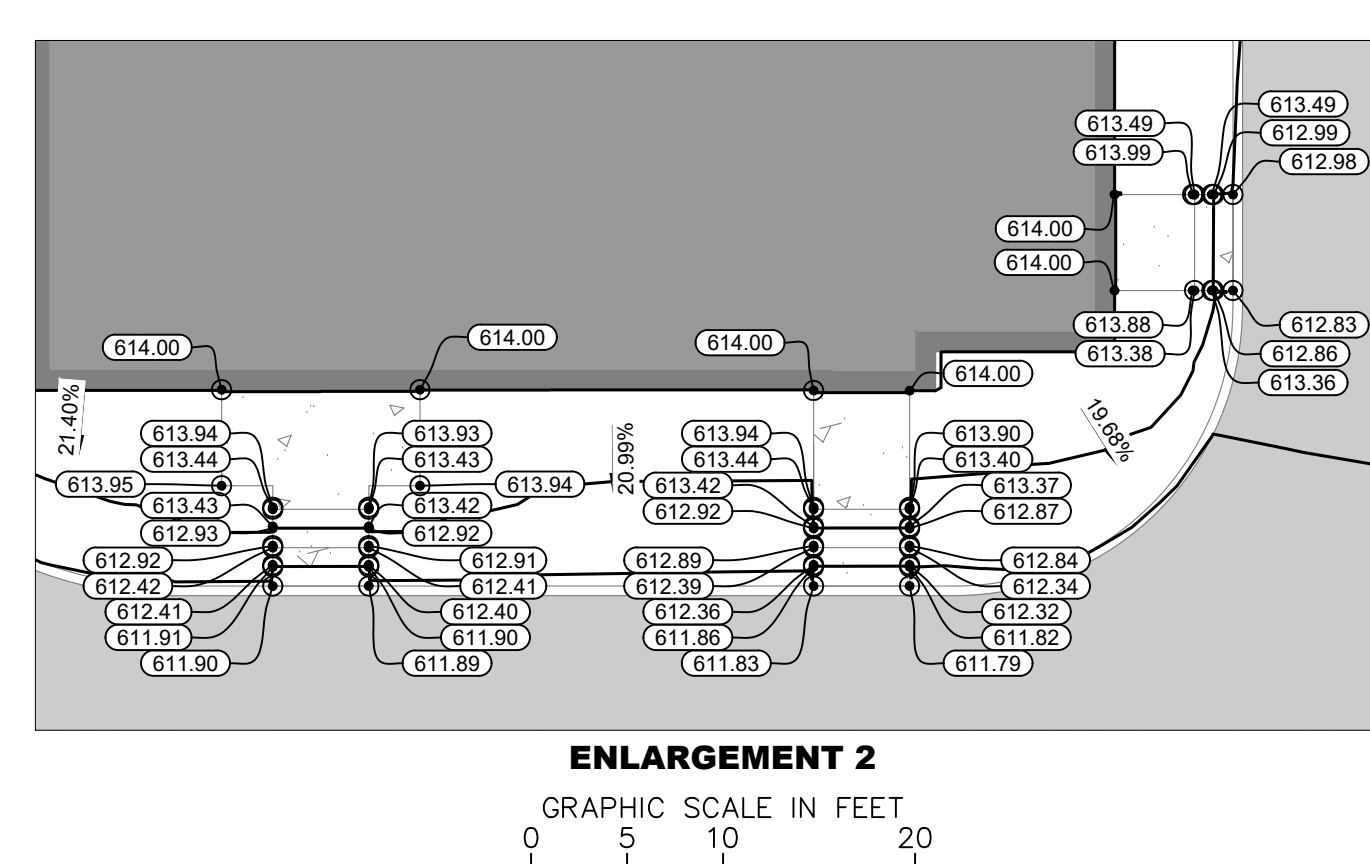
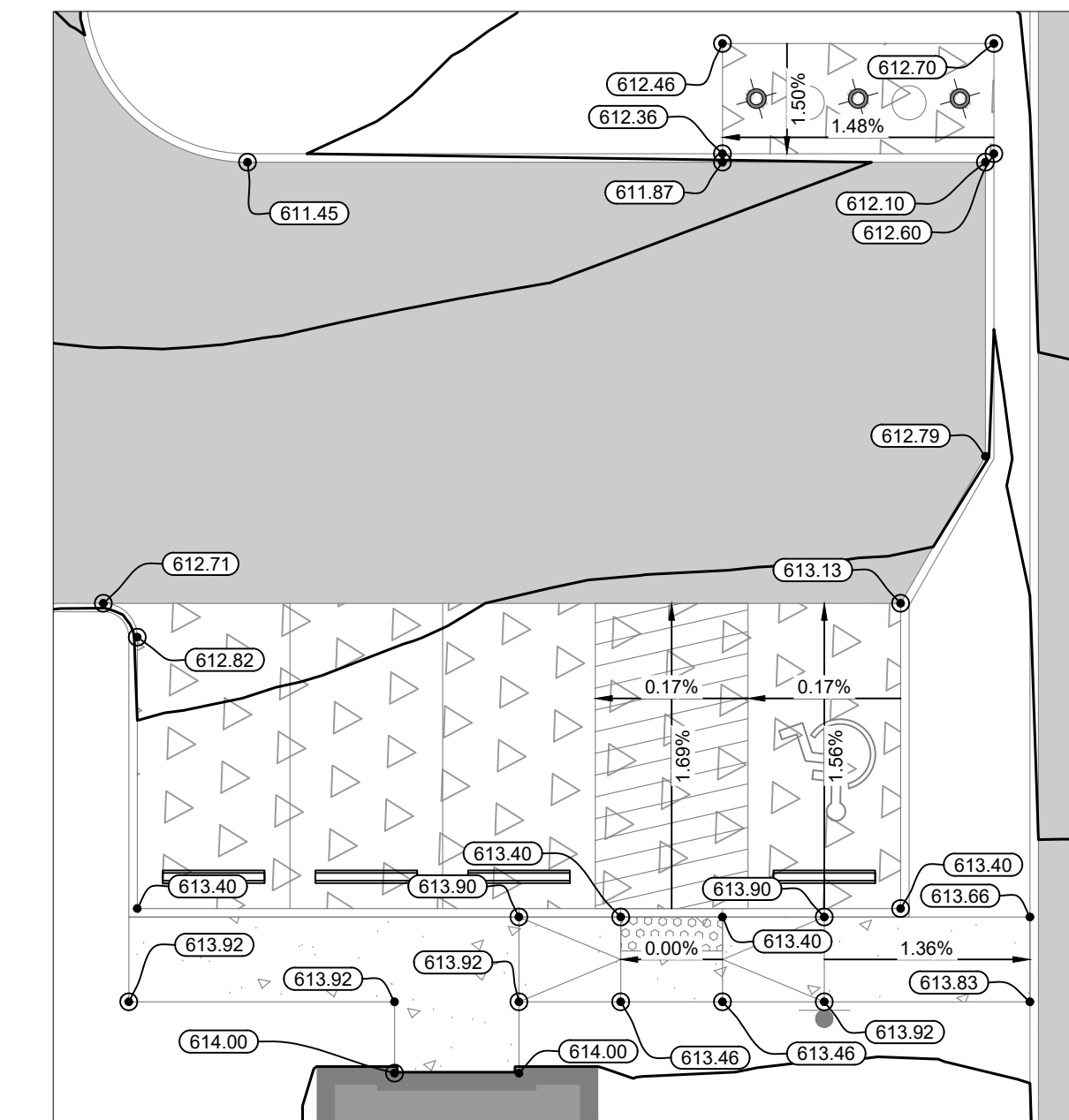
- GRADING NOTES**
- CONTRACTOR RESPONSIBLE FOR VERIFYING LOCATION, SIZE, AND ELEVATIONS OF EXISTING UTILITIES AT CONNECTION POINTS PRIOR TO GRADING OR INSTALLATION OF ANY PROPOSED UTILITIES. CONTRACTOR TO IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES ARE FOUND.
 - AREAS FOR CONSTRUCTION THAT REQUIRE DE-WATERING FOR EXCAVATION WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER AND IN ACCORDANCE WITH SECTION 414 OF THE TENNESSEE GENERAL SPECIFICATIONS PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
 - ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY LOCAL INSPECTOR.
 - DISTURBED AREAS LEFT BARE FOR FIVE DAYS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION. MULCH, TEMPORARY VEGETATION OR PERMANENT VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION UPON COMPLETION.
 - WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDING AREA WITHIN 24 HOURS OF SEEDING. IF UNABLE TO ACCOMPLISH, MULCH SHALL BE USED AS A TEMPORARY COVER. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER (DOES NOT APPLY TO RETAINING WALLS), AND CUTS AND FILLS WITHIN BUFFERS, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.
 - THE GRADING PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A PUBLIC ROAD OR STREET.
 - EROSION AND SEDIMENT CONTROL DEVICES MUST BE DISPLAYED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR MUST CALL FOR AN INSPECTION TO OBTAIN A PERMIT TO GRADE. PLEASE CALL WITH ENOUGH LEAD-TIME FOR AN INSPECTION TO MEET YOUR SCHEDULE.
 - SEDIMENTATION CONTROL DEVICES MUST BE INSPECTED ACCORDING TO LOCAL AND STATE REQUIREMENTS AND AS STIPULATED IN THE STORMWATER POLLUTION PREVENTION PLAN. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MAY BE NECESSARY AS THE PROJECT PROGRESSES AND NEW CHANNELS HAVE DEVELOPED.
 - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
 - EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
 - CONTRACTOR SHALL REVIEW SITE GEOTECHNICAL REPORT BEFORE COMMENCING GRADING OPERATIONS.
 - SEED ALL DISTURBED AREAS UNLESS OTHERWISE NOTED AS PART OF THIS CONTRACT. REFER TO LANDSCAPING PLANS FOR AREAS TO RECEIVE SOO.
 - INSTALL SOO OR RIPRAP IN SWALES AS INDICATED ON GRADING PLANS AND EROSION CONTROL PLANS.
 - TOPSOIL ON SITE TO BE STRIPPED AND STOCKPILED FOR REUSE IN LAWN AREAS.
 - ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER WATER QUALITY MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S OR PROPERTY OWNER'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR.
 - UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, DESIGNER, OR THEIR REPRESENTATIVES. BEFORE YOU DIG CALL ONE CALL-811 OR 1-800-752-9007.
 - THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES TO REMAIN.
- RETAINING WALL NOTE**
- CONTRACTOR TO REFERENCE STRUCTURAL PLANS FOR RETAINING WALL DESIGN.
- ROOF DRAINAGE NOTE**
- ALL ROOF DRAINAGE SHALL BE PIPED UNDERGROUND TO BIOPRETENTION POND #2.
- GRADING PLAN LEGEND**
- SPOT ELEVATION
 - HIGH POINT
 - LOW POINT
 - TOP OF CURB
 - BOTTOM OF CURB / OUTER LINE
 - FINISH FLOOR ELEVATION
 - EXISTING CONTOUR
 - PROPOSED CONTOUR

PIPE TABLE

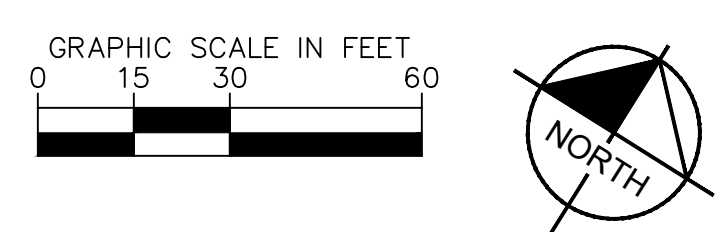
NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
A0 - EX1	599.84 (A0)	599.34 (EX1)	18"	10'	5.00%	HDPE
A1 - A0	602.00 (A1)	599.84 (A0)	18"	44'	5.00%	HDPE
A3 - A2	604.88 (A3)	602.00 (A2)	18"	43'	6.31%	HDPE
B0 - EX0	601.37 (B0)	601.27 (EX0)	12"	10'	1.00%	HDPE
B1 - B0	603.08 (B1)	601.37 (B0)	12"	172'	1.00%	HDPE
B3 - B2	607.83 (B3)	607.33 (B2)	12"	100'	0.50%	RCP CLASS V
R1 - R0	609.02 (R1)	608.83 (R0)	12"	24'	0.38%	RCP
R2 - R1	609.25 (R2)	609.02 (R1)	12"	61'	0.38%	RCP CLASS V

STRUCTURE TABLE

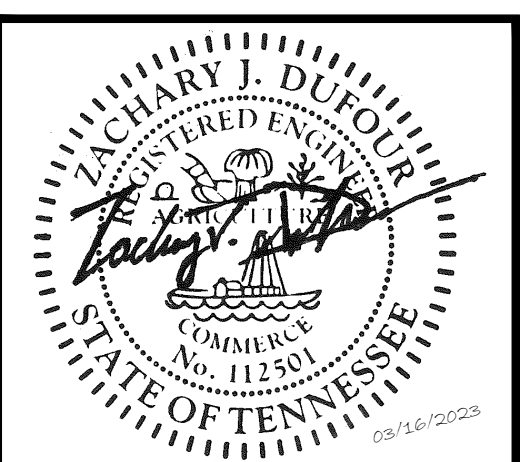
NAME	DESCRIPTION	TOP GRATE
A0	MANHOLE	607.00
A1	OUTLET CONTROL STRUCTURE	
A2	HEADWALL	
A3	YARD INLET	609.60
B0	YARD INLET	609.69
B1	YARD INLET	608.00
B2	HEADWALL	
B3	COMBINATION INLET	610.77
EX0	CONNECT TO EXISTING	
EX1	CONNECT TO EXISTING MANHOLE	
R0	HEADWALL	
R1	YARD INLET	611.78
R2	ROOF DRAIN BUILDING CONNECTION 4.75' BFF (SEE MEP PLANS)	



CONSTRUCTION SET

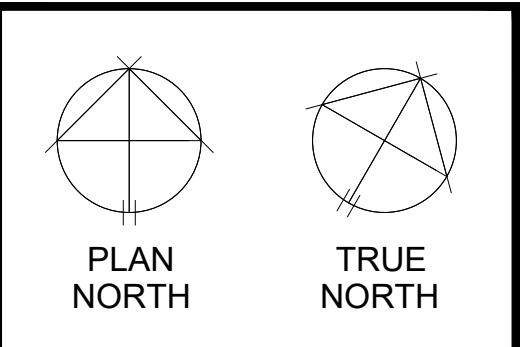


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**TOWN OF NOLENSVILLE
 FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE**

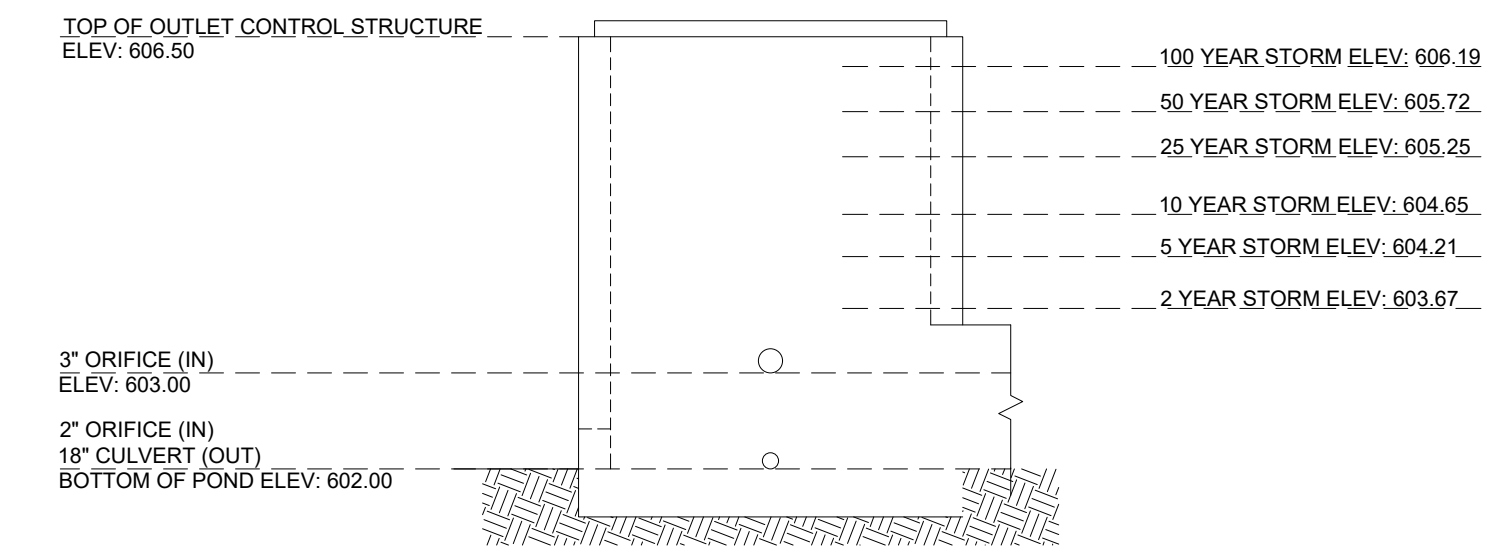
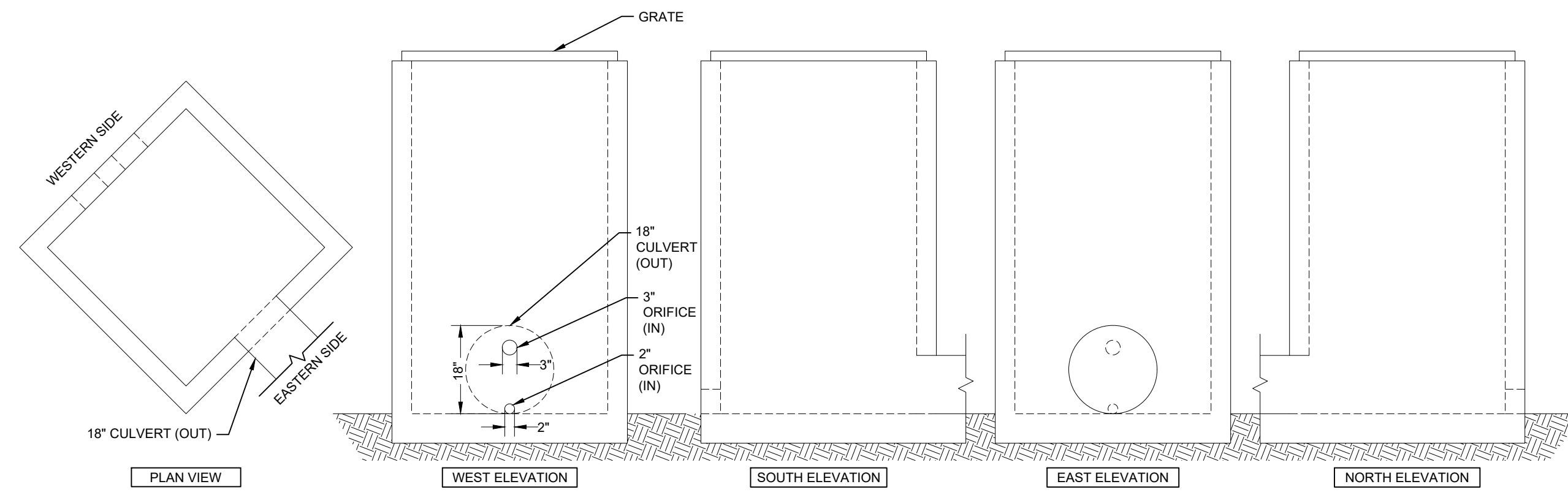
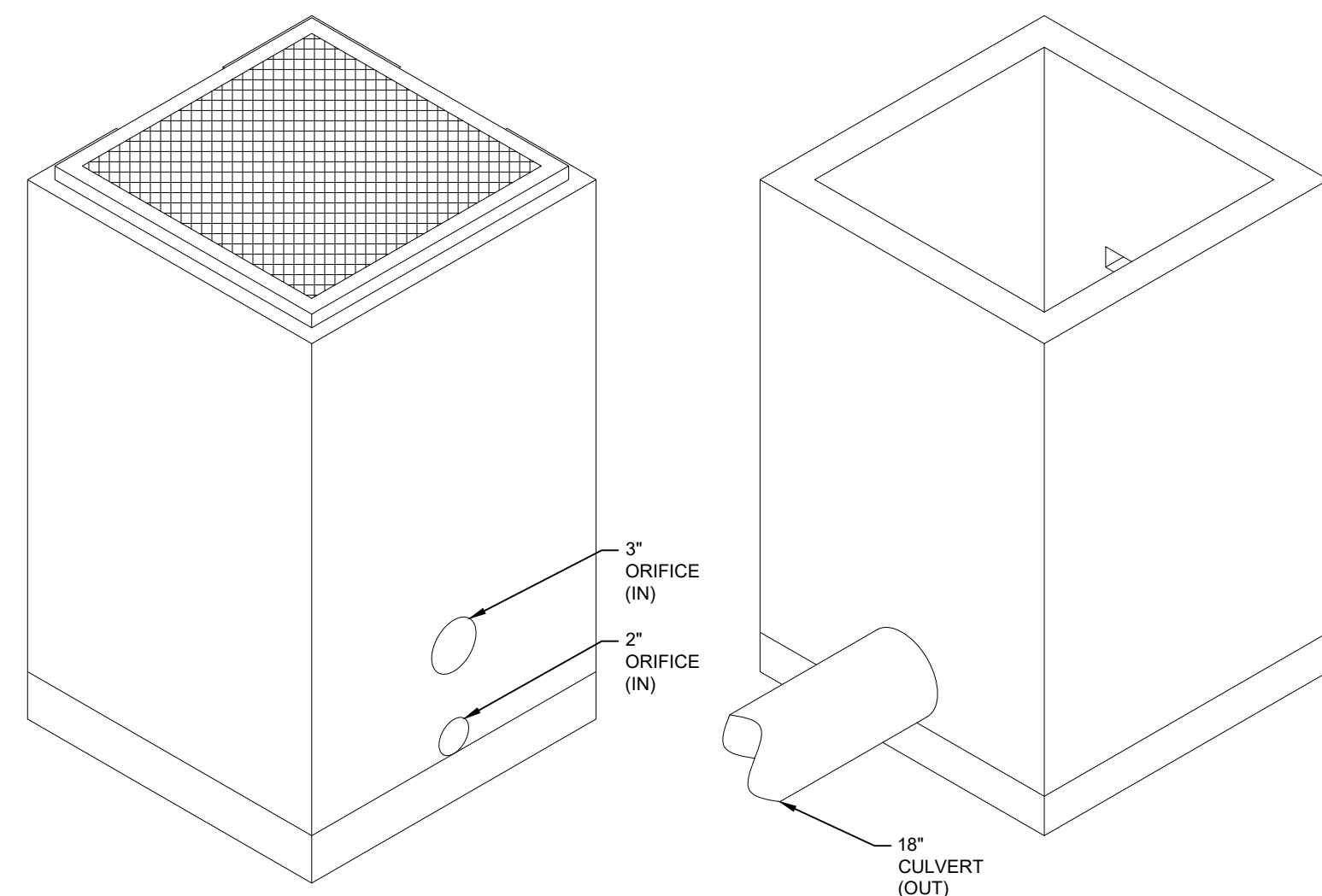


REVISIONS
 1 03/16/2023 ADDENDUM 01

DR. BY MTM
 CK. BY ZJD
 PROJ. NO. A01122
 DATE 03/16/2023

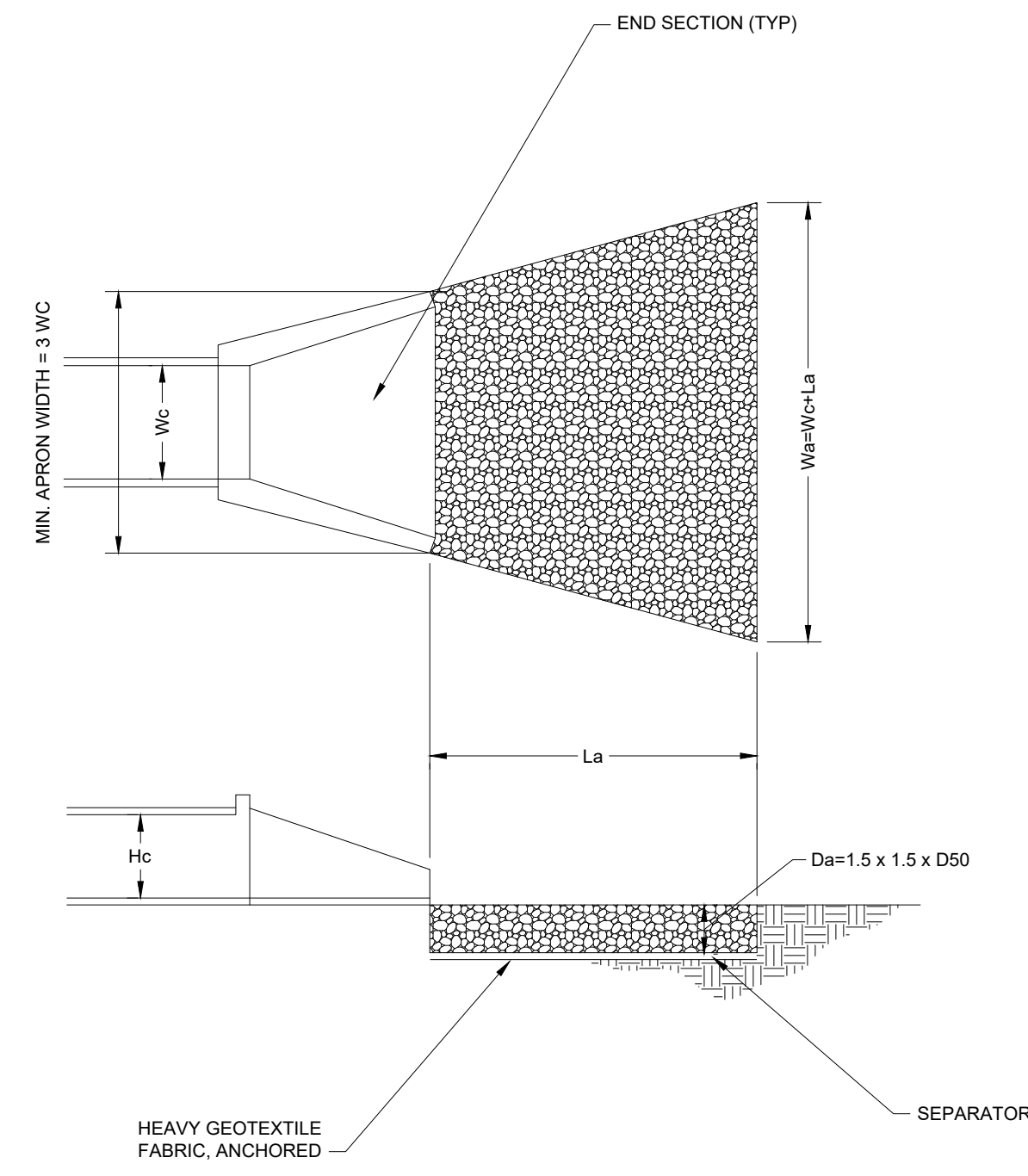
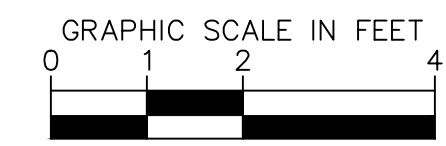
GRADING AND DRAINAGE PLAN

C400



1 OUTLET CONTROL STRUCTURE
NOT TO SCALE

2 STORM EVENTS



TAILWATER < 0.5 Hc AND ASSUMING FULL CULVERT FLOW (LOW TAILWATER CONDITIONS)

DIMENSIONS

- H_c = HEIGHT OF CULVERT = 42 INCHES
- W_c = WIDTH OF CULVERT = 42 INCHES
- L_p = LENGTH OF RIP-RAP APRON = 22 FEET
- W_a = WIDTH OF RIP-RAP APRON AT END = 25.5 FEET
- D₅₀ = MEDIAN SIZE OF RIP-RAP = 8.5 INCHES
- D_{max} = MAXIMUM SIZE OF RIP-RAP = 1.5 D₅₀ = 12.8 INCHES
- D_s = DEPTH OF RIP-RAP APRON = 1.5 D_{max} = 19.1 INCHES
- SEPARATOR = GEOTEXTILE UNDERLAYMENT OR GRAVEL FILTER BLANKET

3 RIP-RAP FLUME
NOT TO SCALE

PIPE TABLE						
NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
A0 - EX1	599.84 (A0)	599.34 (EX1)	18"	10'	5.00%	HDPE
A1 - A0	602.00 (A1)	599.84 (A0)	18"	44'	5.00%	HDPE
A3 - A2	604.68 (A3)	602.00 (A2)	18"	43'	6.31%	HDPE
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B3 - B2	607.83 (B3)	607.33 (B2)	12"	100'	0.50%	RCP CLASS V
R1 - R0	609.02 (R1)	608.93 (R0)	12"	24'	0.38%	RCP
R2 - R1	609.25 (R2)	609.02 (R1)	12"	61'	0.38%	RCP CLASS V

STRUCTURE TABLE		
NAME	DESCRIPTION	TOP GRATE
A0	MANHOLE	607.09
A1	OUTLET CONTROL STRUCTURE	
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B0	YARD INLET	609.69
B1	YARD INLET	608.00
B2	HEADWALL	
B3	COMBINATION INLET	610.77
EX0	CONNECT TO EXISTING	
EX1	CONNECT TO EXISTING MANHOLE	
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R1	YARD INLET	611.78
R2	ROOF DRAIN BUILDING CONNECTION 4'x2' BFF (SEE MEP PLANS)	



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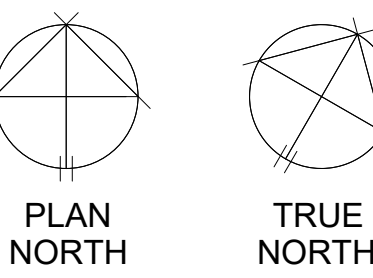
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**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**



NO.	DATE	DESCRIPTION

DR. BY	MTM
CK. BY	ZJD
PROJ. NO.	A01122
DATE	03/03/2023

GRADING AND DRAINAGE DETAILS

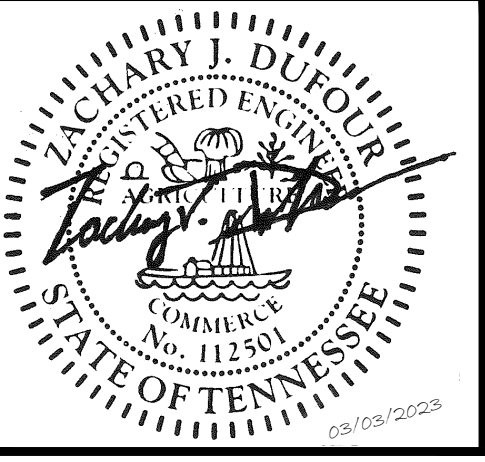
C410

CONSTRUCTION SET



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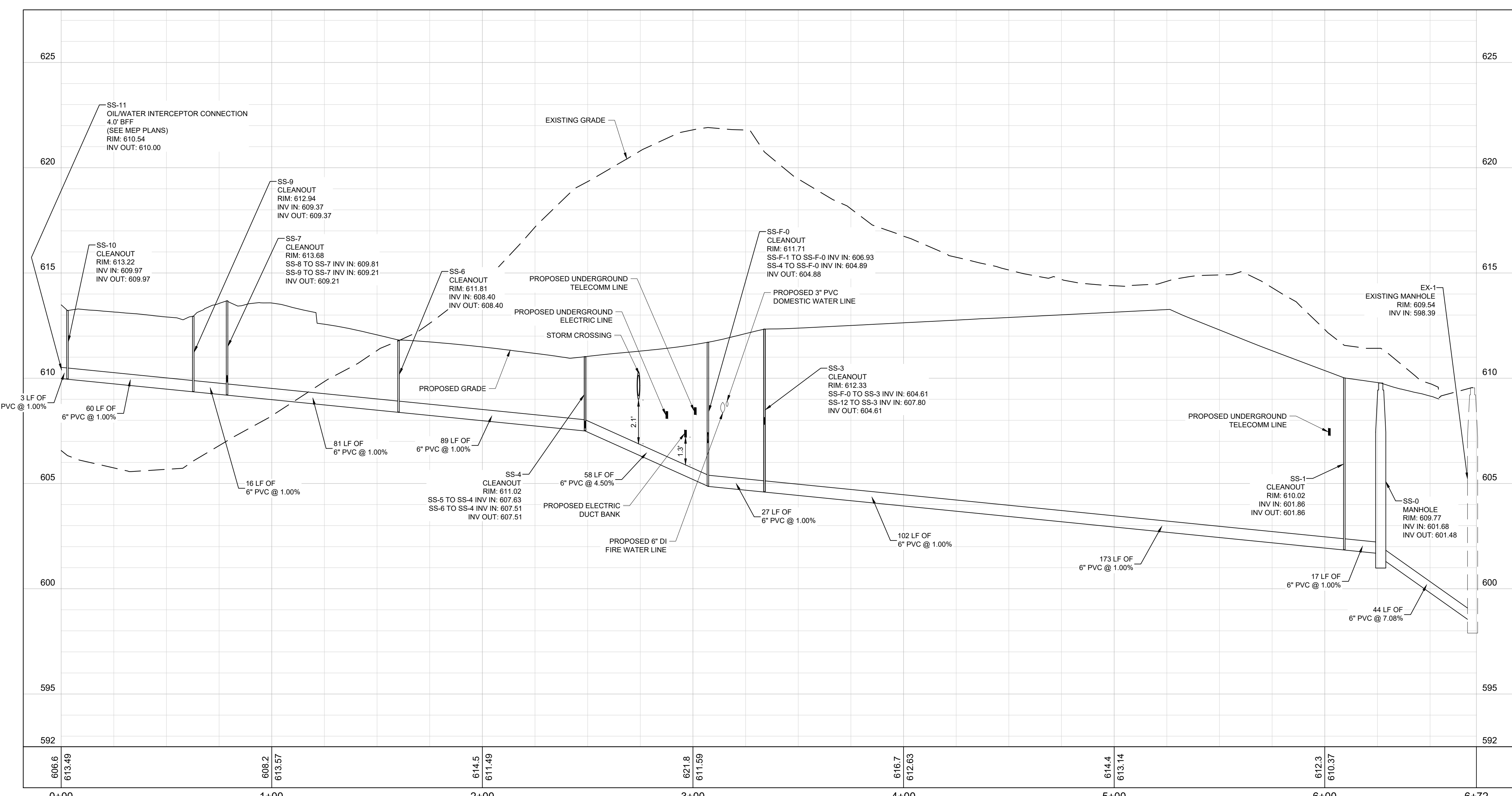
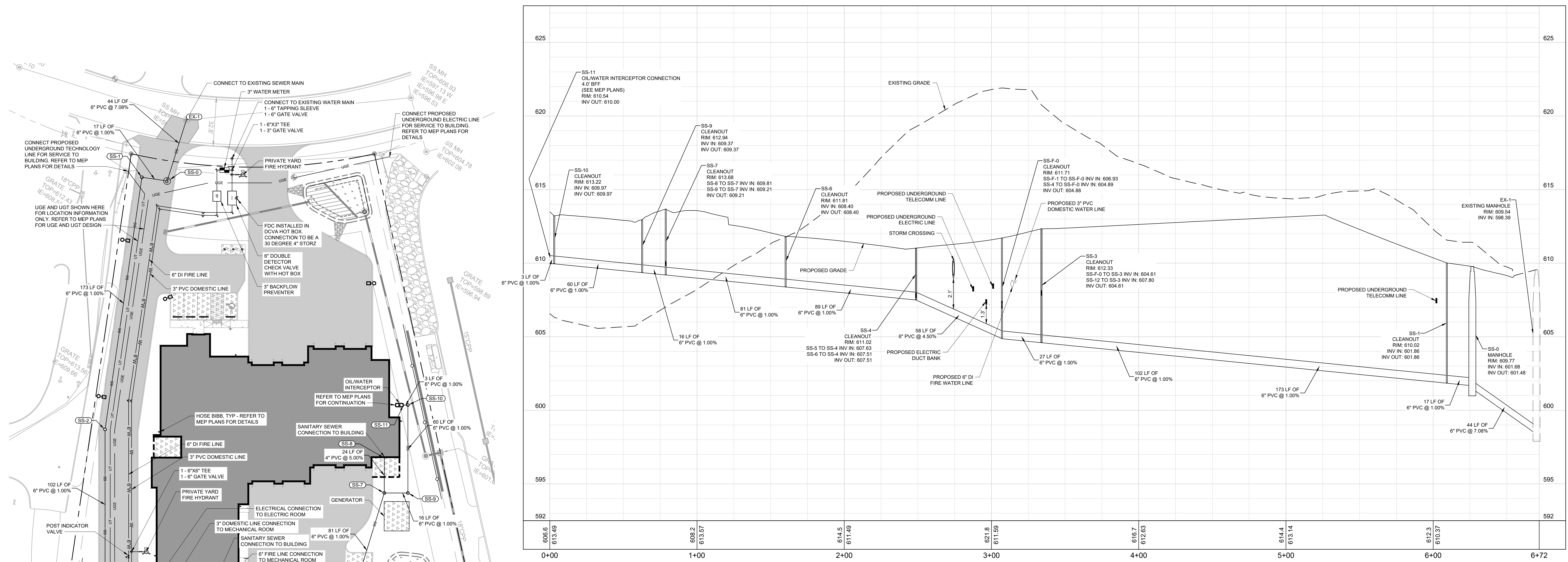
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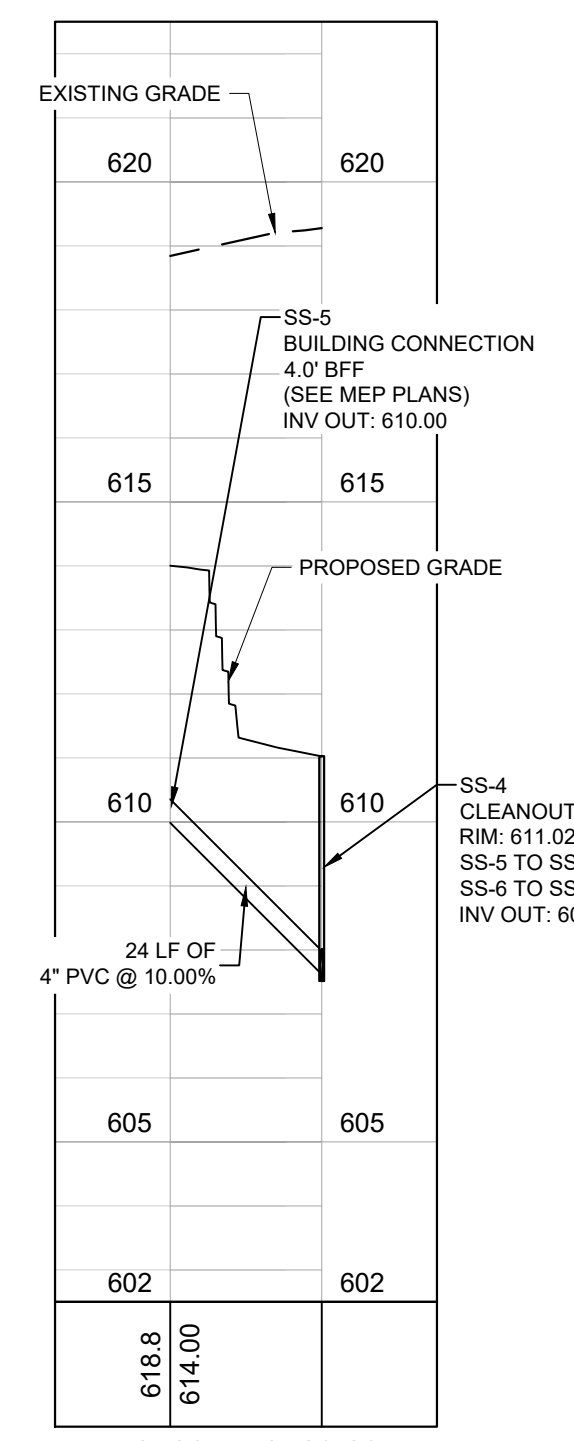
**TOWN OF NOLENSVILLE
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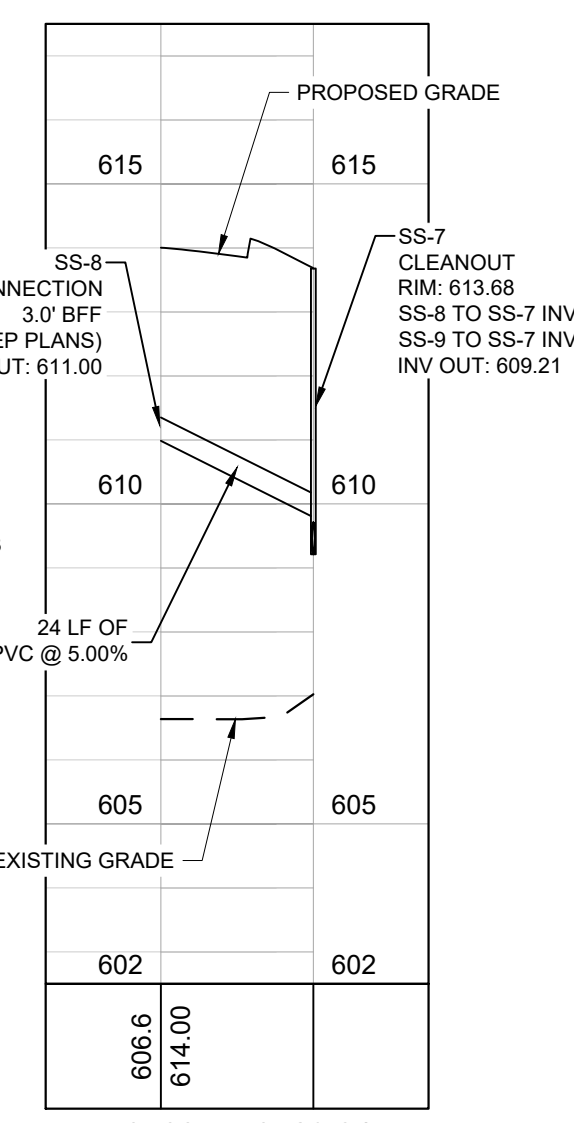
SSWR LINE

STRUCTURE TABLE		
NAME	DESCRIPTION	TOP GRADE
EX-1	EXISTING MANHOLE	609.54
SS-0	MANHOLE	609.77
SS-1	CLEANOUT	610.02
SS-2	CLEANOUT	612.82
SS-3	CLEANOUT	612.33
SS-4	CLEANOUT	611.02
SS-5	BUILDING CONNECTION 4.0" BFF (SEE MEP PLANS)	611.81
SS-6	CLEANOUT	613.68
SS-7	CLEANOUT	613.68
SS-8	BUILDING CONNECTION 3.0" BFF (SEE MEP PLANS)	612.04
SS-9	CLEANOUT	612.04
SS-10	CLEANOUT	613.22
SS-11	OIL/WATER INTERCEPTOR CONNECTION 4.0" BFF (SEE MEP PLANS)	613.32
SS-12	DUMPSTER DRAIN	612.37
SS-F-0	CLEANOUT	611.71
SS-F-1	CLEANOUT	613.32
SS-F-2	CLEANOUT	612.97

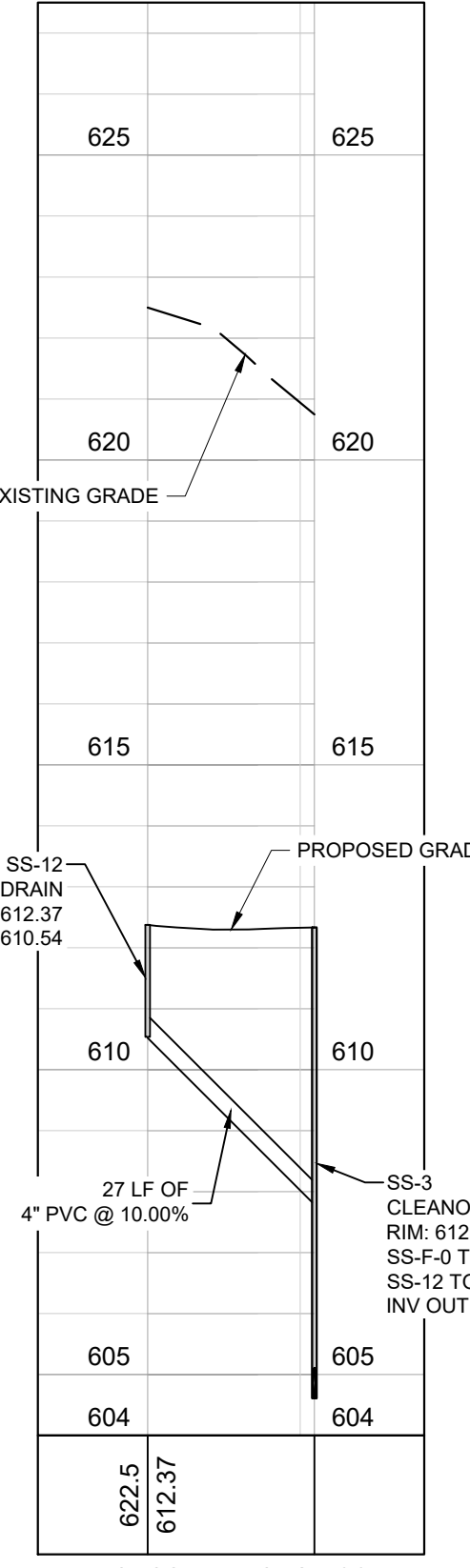
PIPE TABLE						
NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
SS-0-EX-1	601.48 (SS-0)	596.39 (EX-1)	6"	44'	7.08%	PVC
SS-1-SS-0	601.86 (SS-1)	601.68 (SS-0)	6"	18'	1.00%	PVC
SS-2-SS-1	603.59 (SS-2)	601.86 (SS-1)	6"	174'	1.00%	PVC
SS-3-SS-2	604.61 (SS-3)	603.59 (SS-2)	6"	103'	1.00%	PVC
SS-4-SS-F-0	607.51 (SS-4)	604.89 (SS-F-0)	6"	59'	4.50%	PVC
SS-5-SS-4	610.00 (SS-5)	607.63 (SS-4)	4"	24'	10.00%	PVC
SS-6-SS-4	608.40 (SS-6)	607.51 (SS-4)	6"	89'	1.00%	PVC
SS-7-SS-6	609.21 (SS-7)	608.40 (SS-6)	6"	82'	1.00%	PVC
SS-8-SS-7	611.00 (SS-8)	609.81 (SS-7)	4"	24'	5.00%	PVC
SS-9-SS-8	609.97 (SS-9)	609.21 (SS-7)	6"	17'	1.00%	PVC
SS-10-SS-9	609.97 (SS-10)	609.37 (SS-9)	6"	60'	1.00%	PVC
SS-11-SS-10	610.00 (SS-11)	609.97 (SS-10)	6"	3'	1.00%	PVC
SS-12-SS-3	610.54 (SS-12)	607.80 (SS-3)	4"	28'	10.00%	PVC
SS-F-0-SS-3	604.89 (SS-F-0)	604.61 (SS-3)	6"	27'	1.00%	PVC
SS-F-1-SS-F-0	607.77 (SS-F-1)	606.83 (SS-F-0)	6"	85'	1.00%	PVC
SS-F-2-SS-F-1	608.13 (SS-F-2)	607.77 (SS-F-1)	6"	36'	1.00%	PVC



BUILDING CONNECTION 1



BUILDING CONNECTION 2



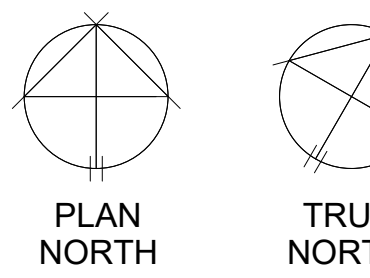
DUMPSTER DRAIN CONNECTION

EXISTING UTILITIES NOTE

CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.

UTILITY NOTES

- CONTRACTOR RESPONSIBLE FOR VERIFYING EXISTING ELEVATIONS COMPARED TO THOSE SHOWN ON PLAN PRIOR TO GRADING. NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES ARE FOUND.
- AREAS FOR CONSTRUCTION THAT REQUIRE DE-WATERING FOR EXCAVATION WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- ALL WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH NOLENSVILLE COLLEGE GROVE UTILITY DISTRICT AND METRO WATER SERVICES STANDARD SPECIFICATIONS.
- MAINTAIN MINIMUM 10 FEET HORIZONTAL SEPARATION BETWEEN WATER & SANITARY SEWER OR 18" VERTICAL SEPARATION AT CROSSING LOCATIONS.
- REFER TO NOLENSVILLE COLLEGE GROVE UTILITY DISTRICT STANDARD SPECIFICATIONS FOR PIPE BEDDING REQUIREMENTS.
- ALL WATER VALVES TO BE LOCATED OUTSIDE OF PAVED AREAS WHERE POSSIBLE.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS OF WATER & SANITARY SEWER CONSTRUCTION PRIOR TO THE ACCEPTANCE OF THE PUBLIC UTILITIES.



REVISIONS

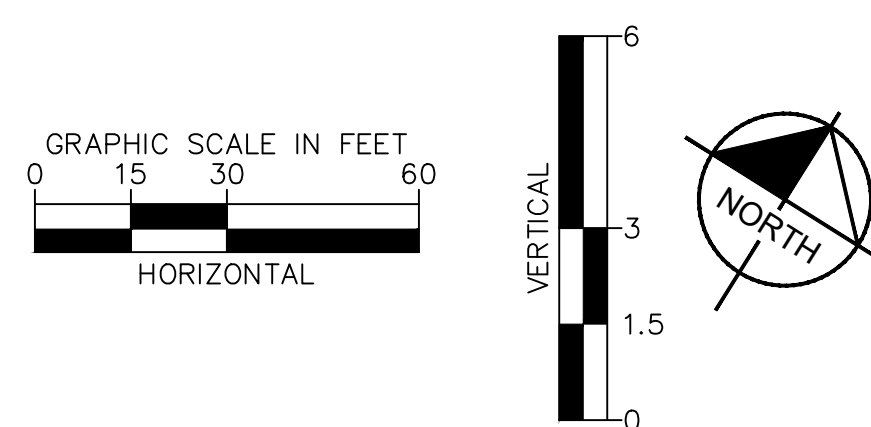
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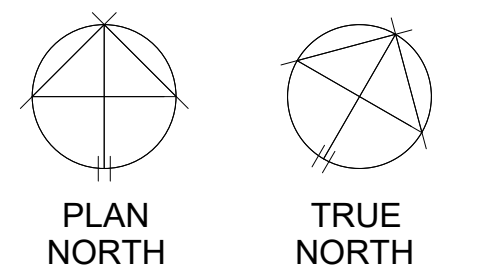
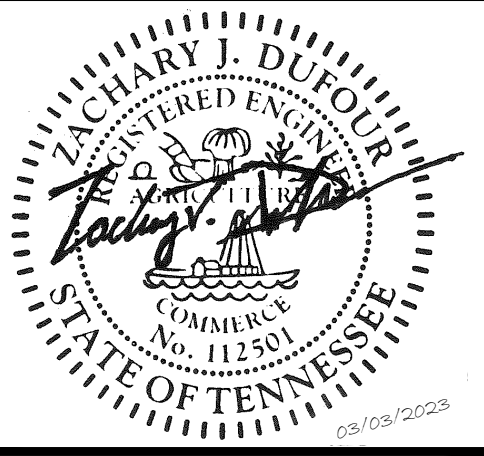
DR. BY MTM
CK. BY ZJD
PROJ. NO. A01122
DATE 03/03/2023

UTILITY PLAN

C600

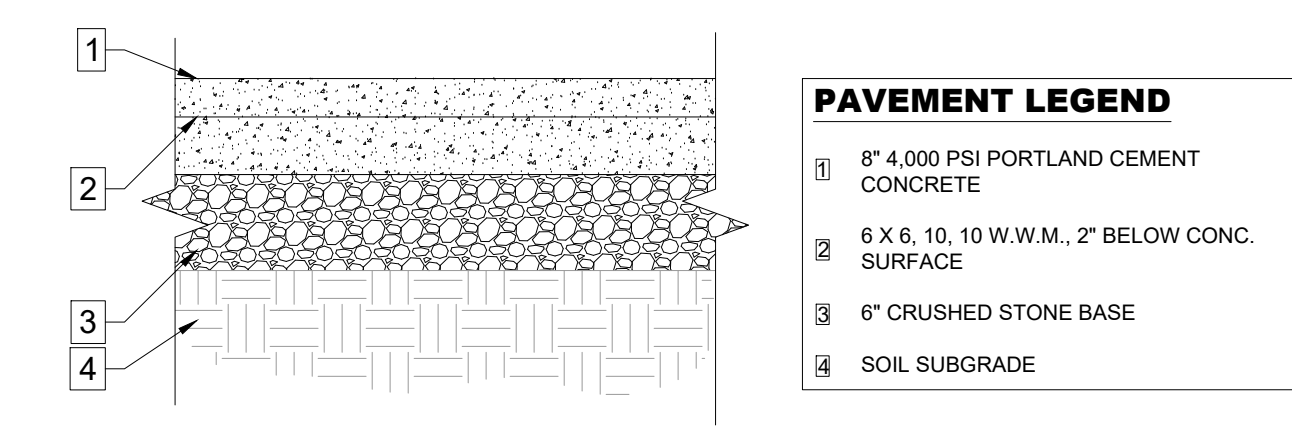
CONSTRUCTION SET





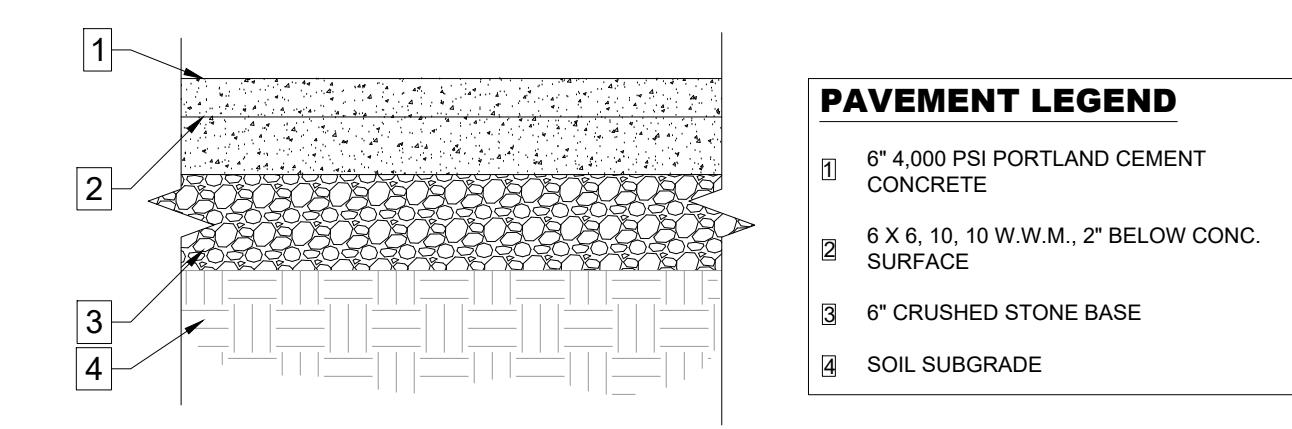
REVISIONS

NO.	DATE	DESCRIPTION



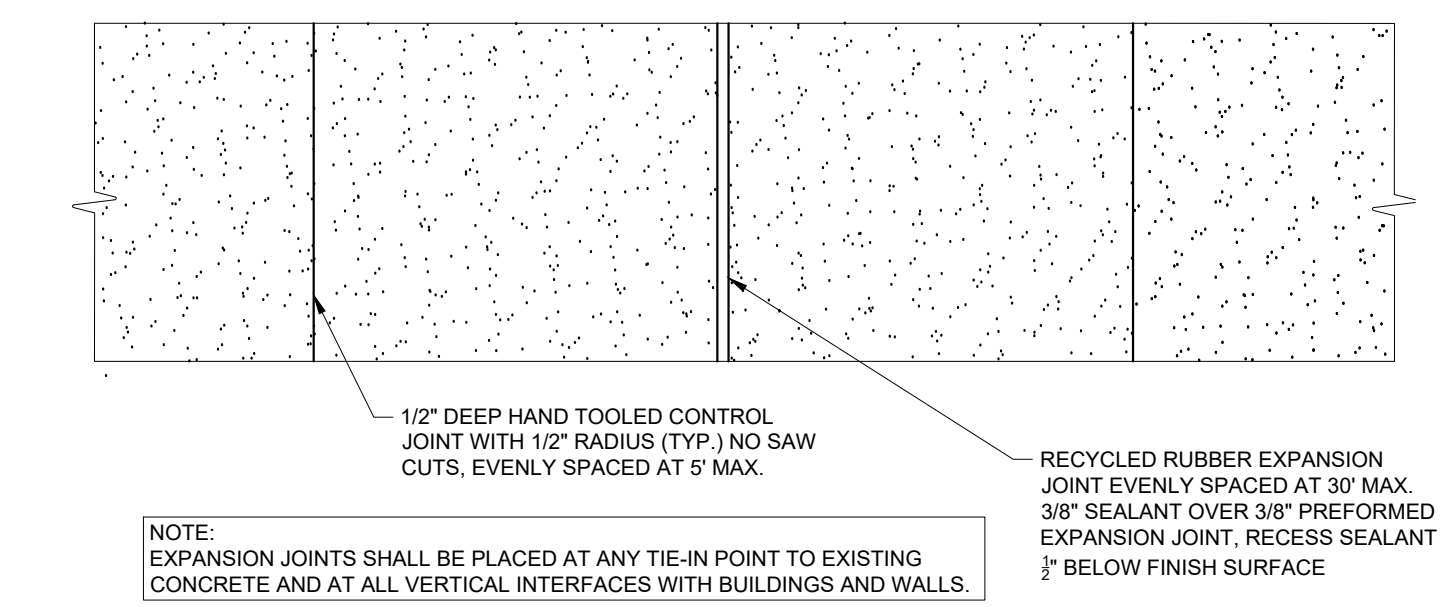
NOTES:
1. SEE GEOTECHNICAL SPECIFICATIONS FOR SUBGRADE REQUIREMENTS.
2. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, LATEST EDITION.

4 HEAVY DUTY CONCRETE PAVEMENT SECTION
NOT TO SCALE

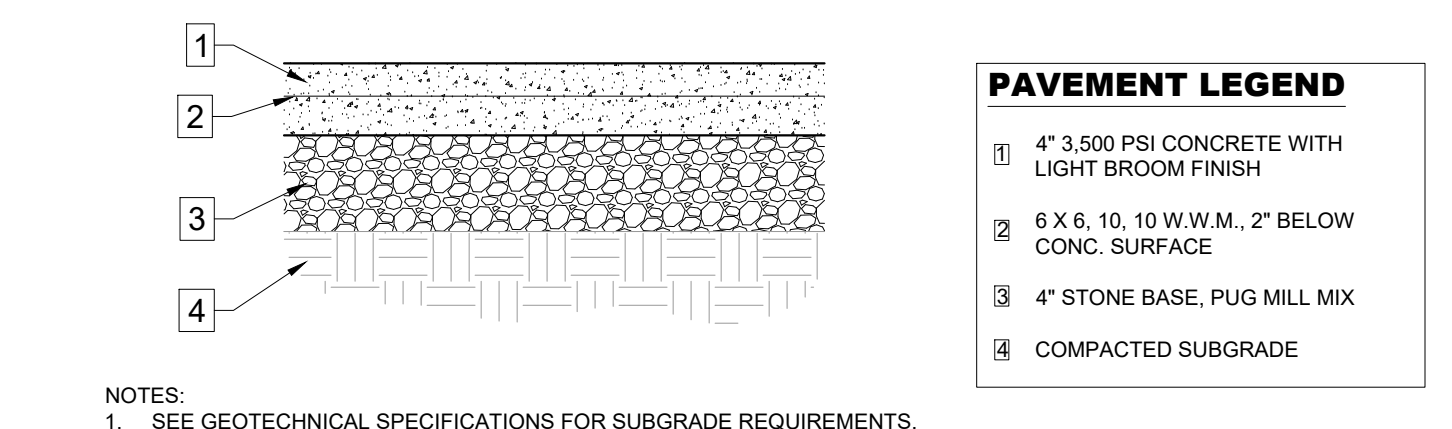


NOTES:
1. SEE GEOTECHNICAL SPECIFICATIONS FOR SUBGRADE REQUIREMENTS.
2. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, LATEST EDITION.

3 STANDARD DUTY CONCRETE PAVEMENT SECTION
NOT TO SCALE

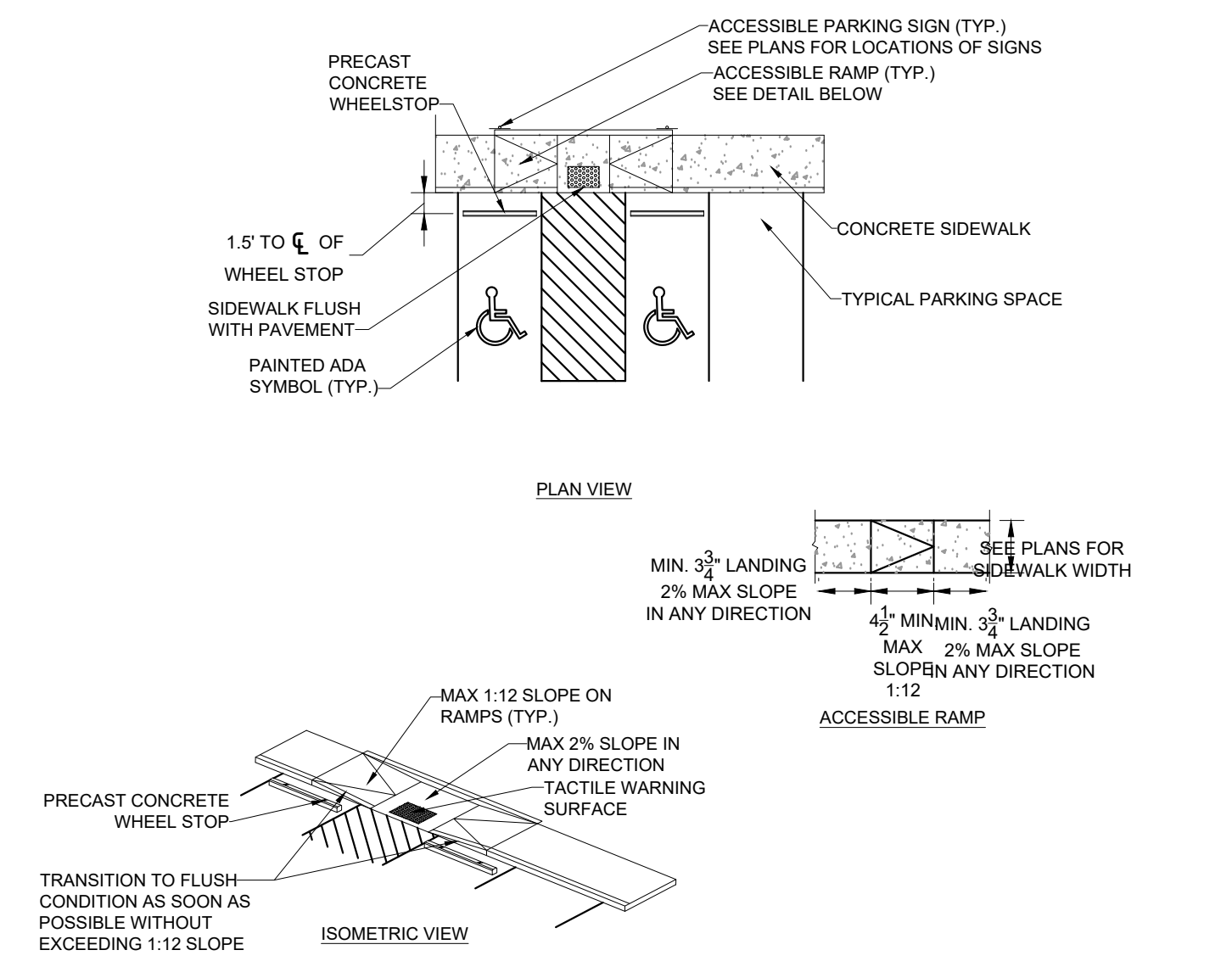


2 EXPANSION JOINT
NOT TO SCALE

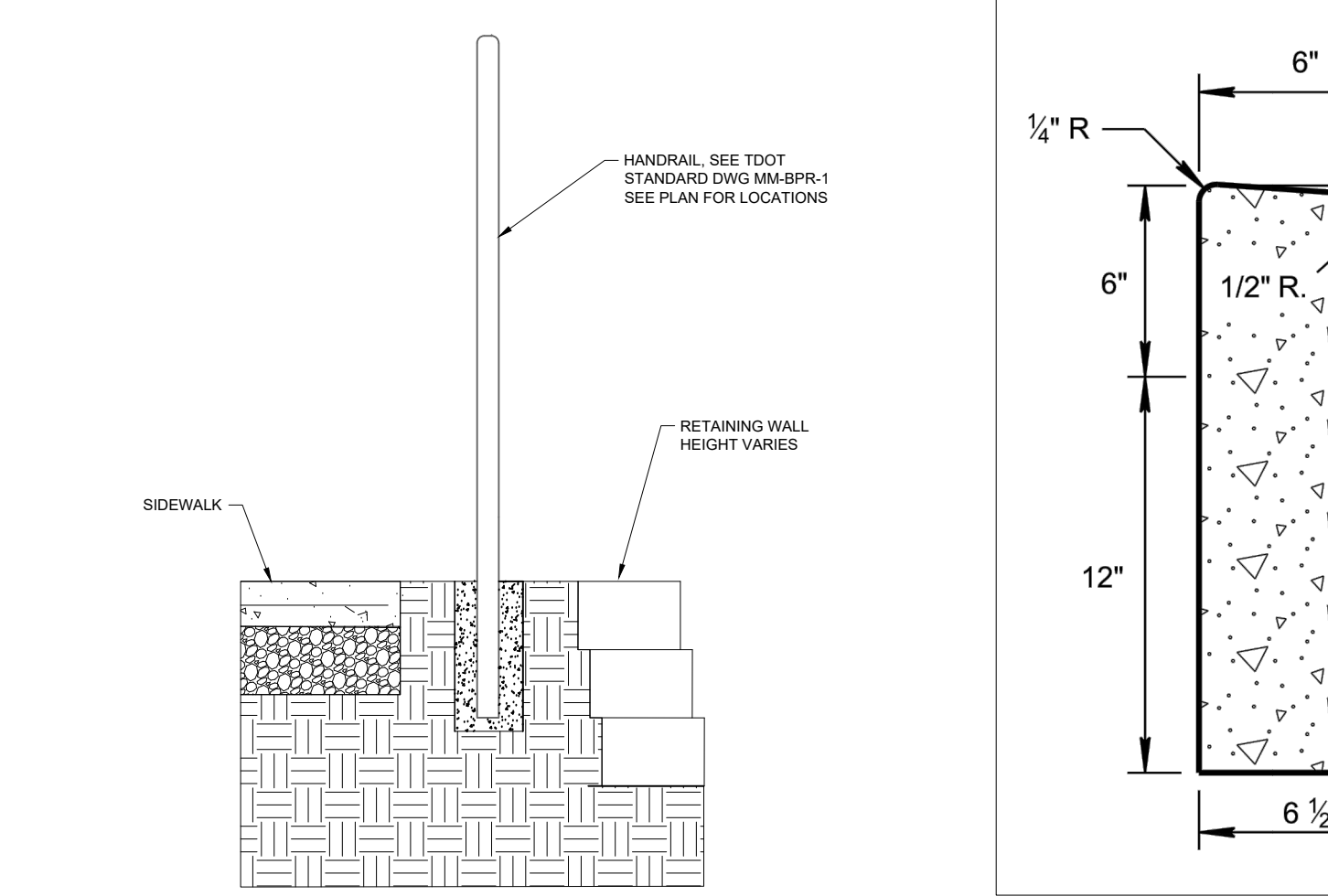


NOTES:
1. SEE GEOTECHNICAL SPECIFICATIONS FOR SUBGRADE REQUIREMENTS.
2. FIBER MESH REINFORCING CAN BE SUBSTITUTED FOR WWM. APPLICATION RATES SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
3. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, LATEST EDITION.
4. BROOM FINISH SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.
5. PROPOSED PAVEMENT SECTIONS SHOWN HEREIN ARE PRELIMINARY. FINAL PAVEMENT DESIGN SHALL BE PROVIDED BY A LICENSED GEOTECHNICAL ENGINEER, BASED ON SITE CONDITIONS AND SOIL PROPERTIES FOUND DURING CONSTRUCTION.
6. EXPANSION JOINTS SHALL BE PLACED AT ANY TIE-IN POINT TO EXISTING CONCRETE AND AT ALL VERTICAL INTERFACES WITH BUILDINGS AND WALLS.

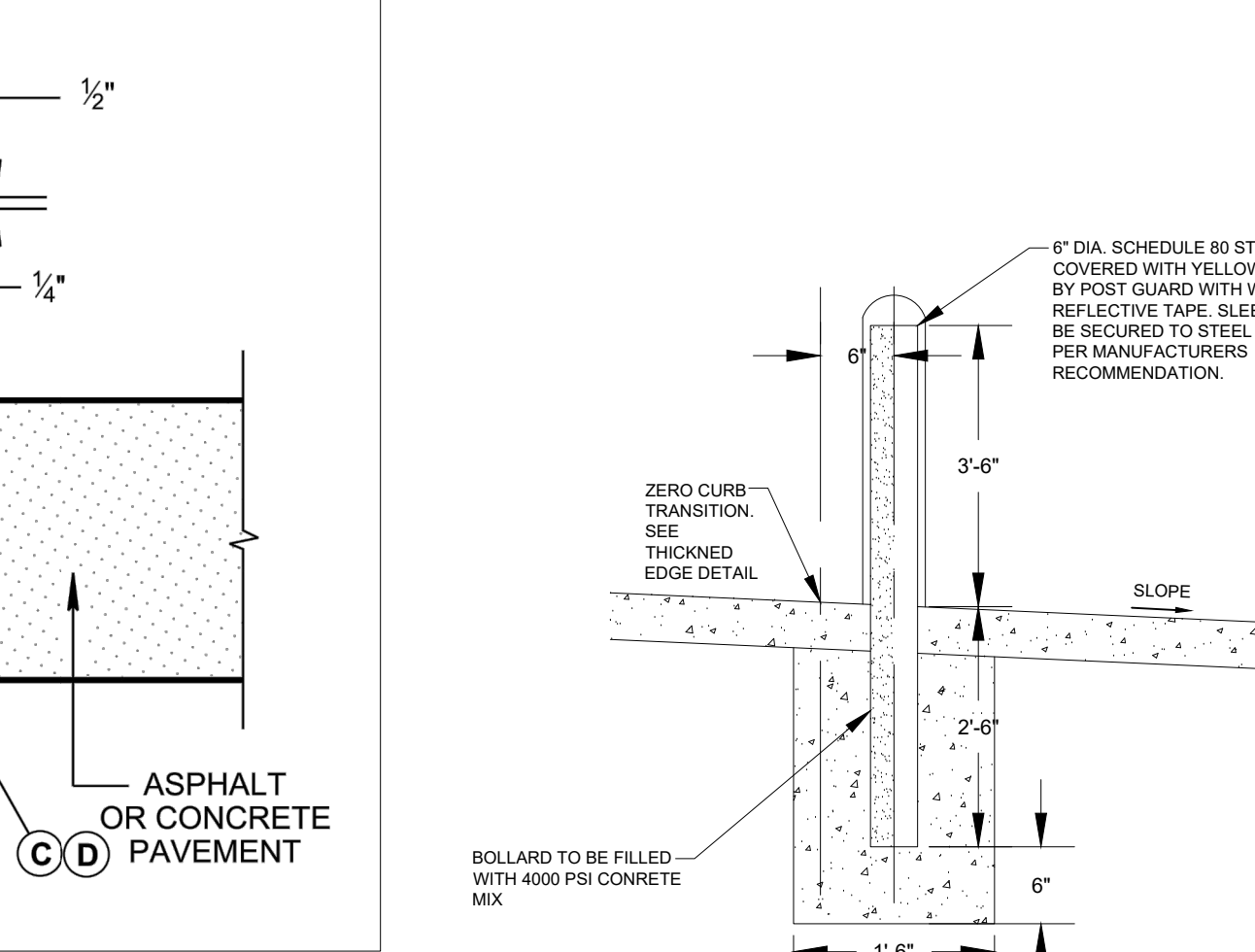
1 SIDEWALK
NOT TO SCALE



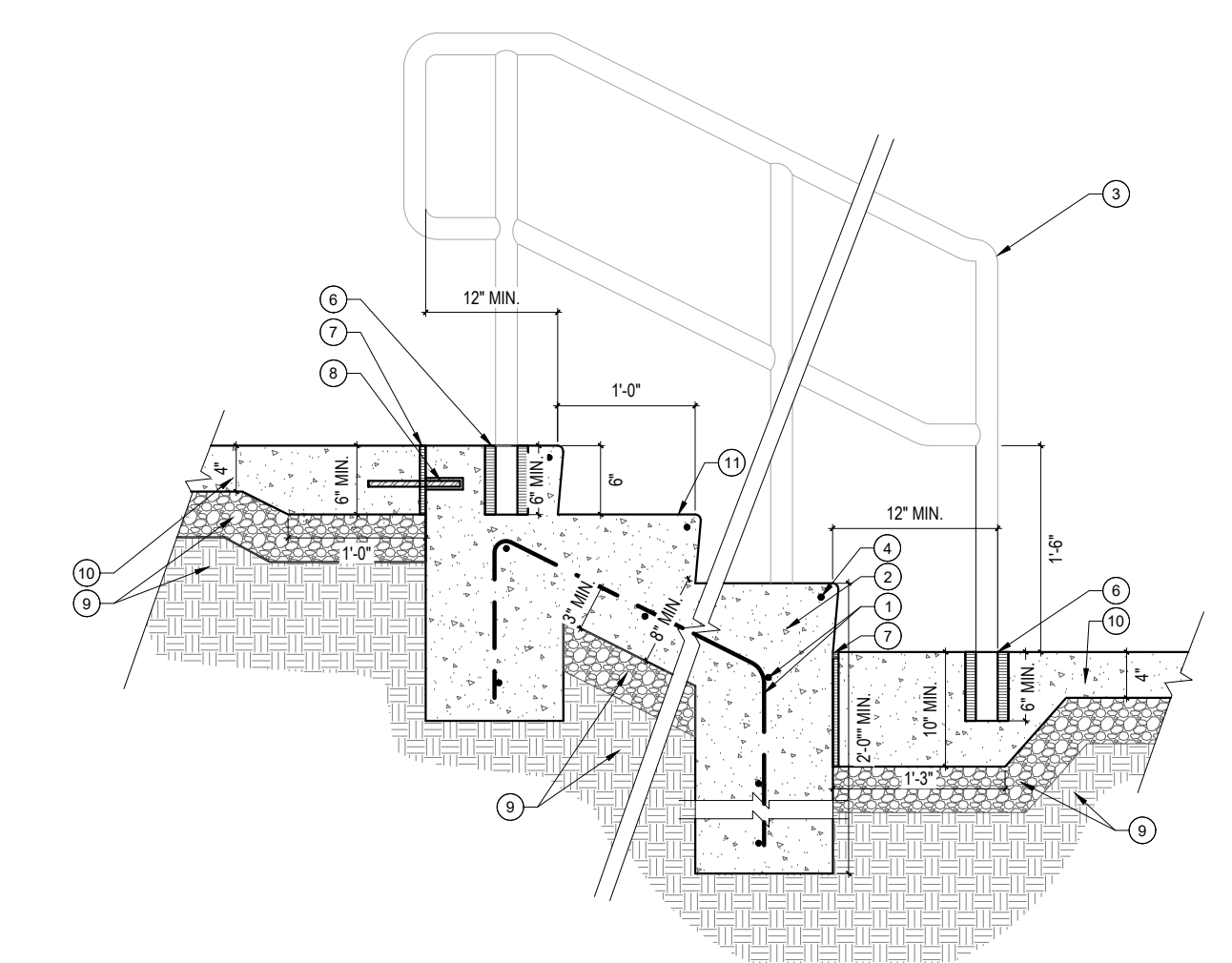
5 ADA PARKING SPACE
NOT TO SCALE



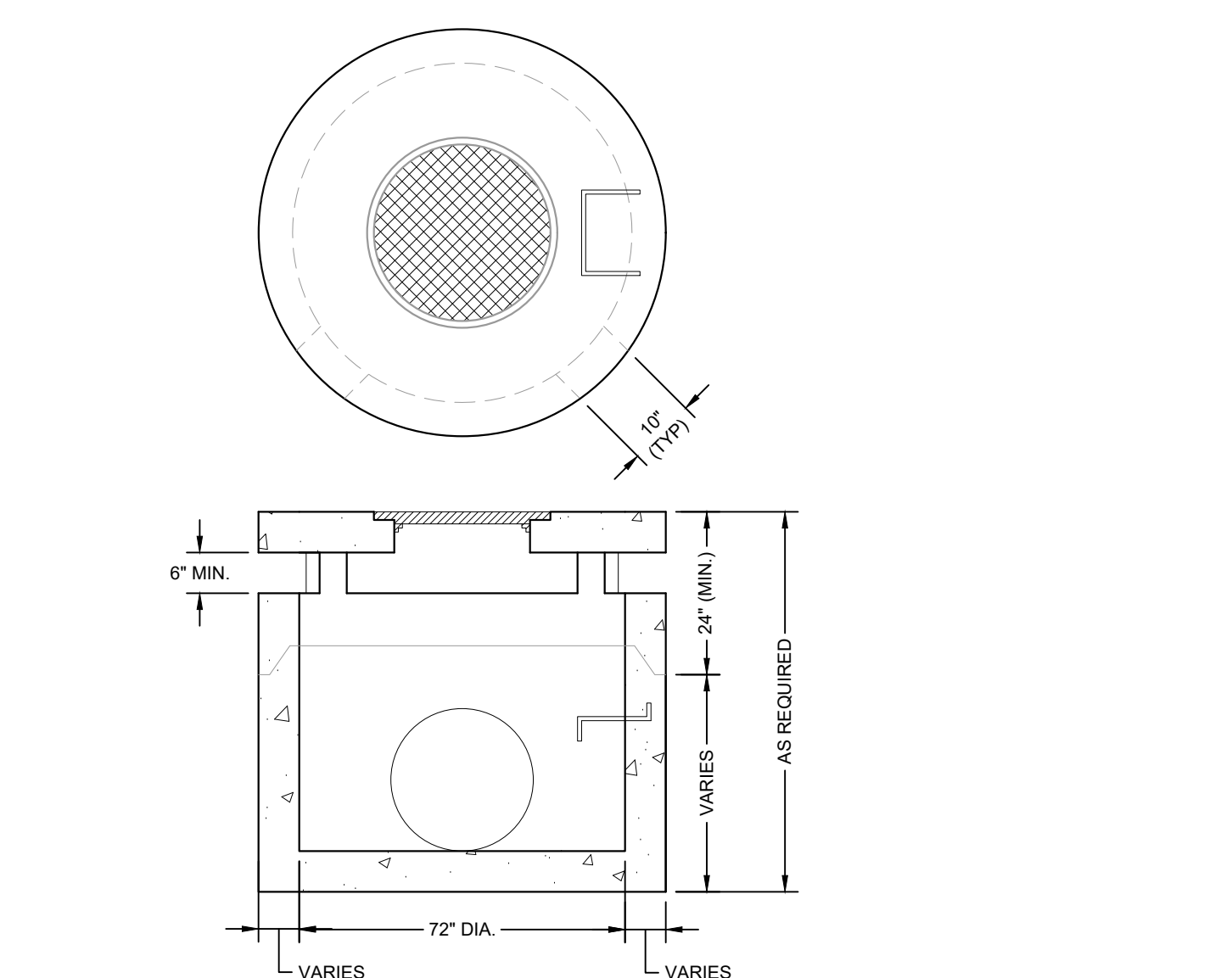
6 BARRIER RAIL
NOT TO SCALE



8 BOLLARD
NOT TO SCALE

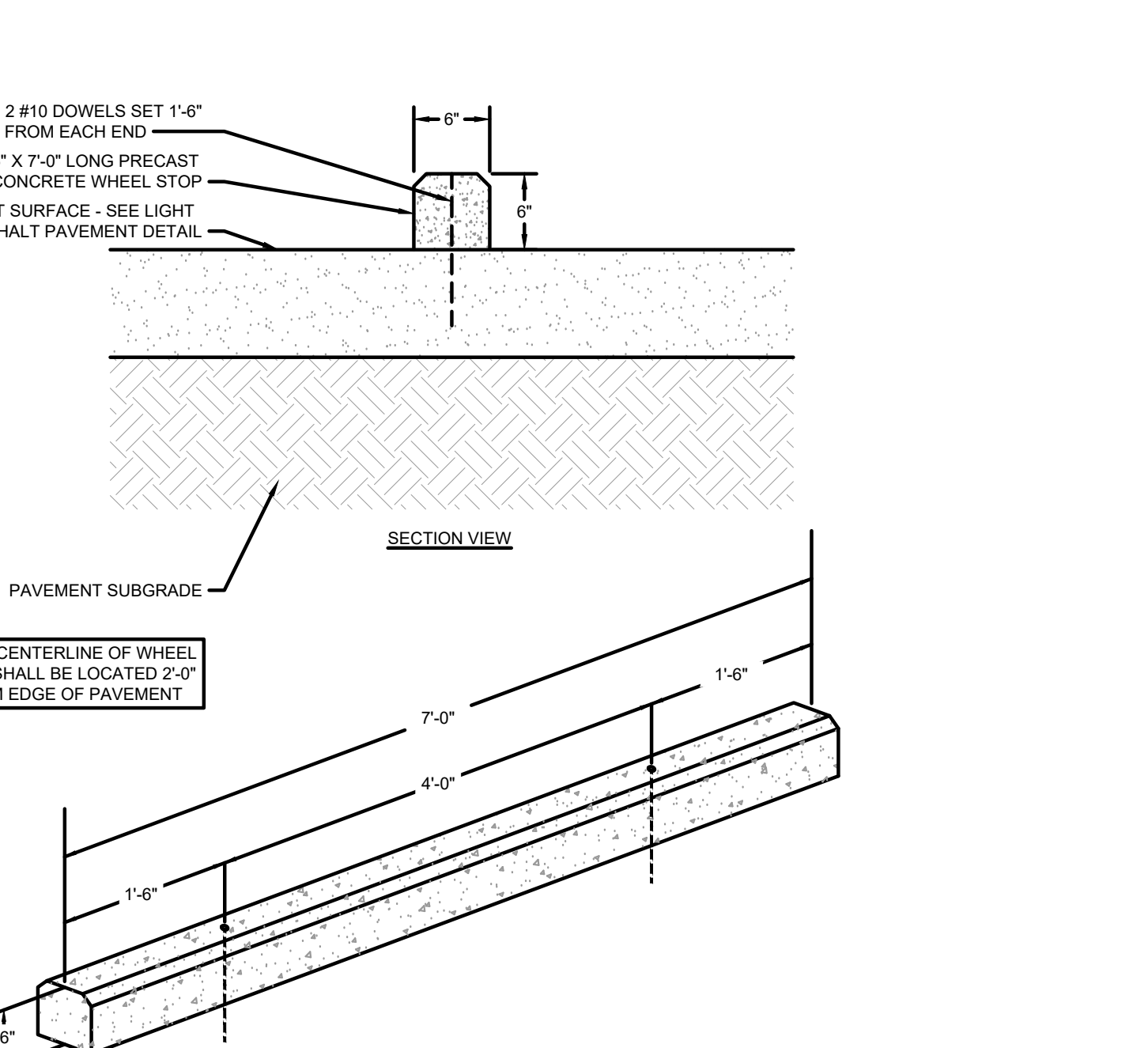


9 STAIRS WITH HANDRAIL
NOT TO SCALE

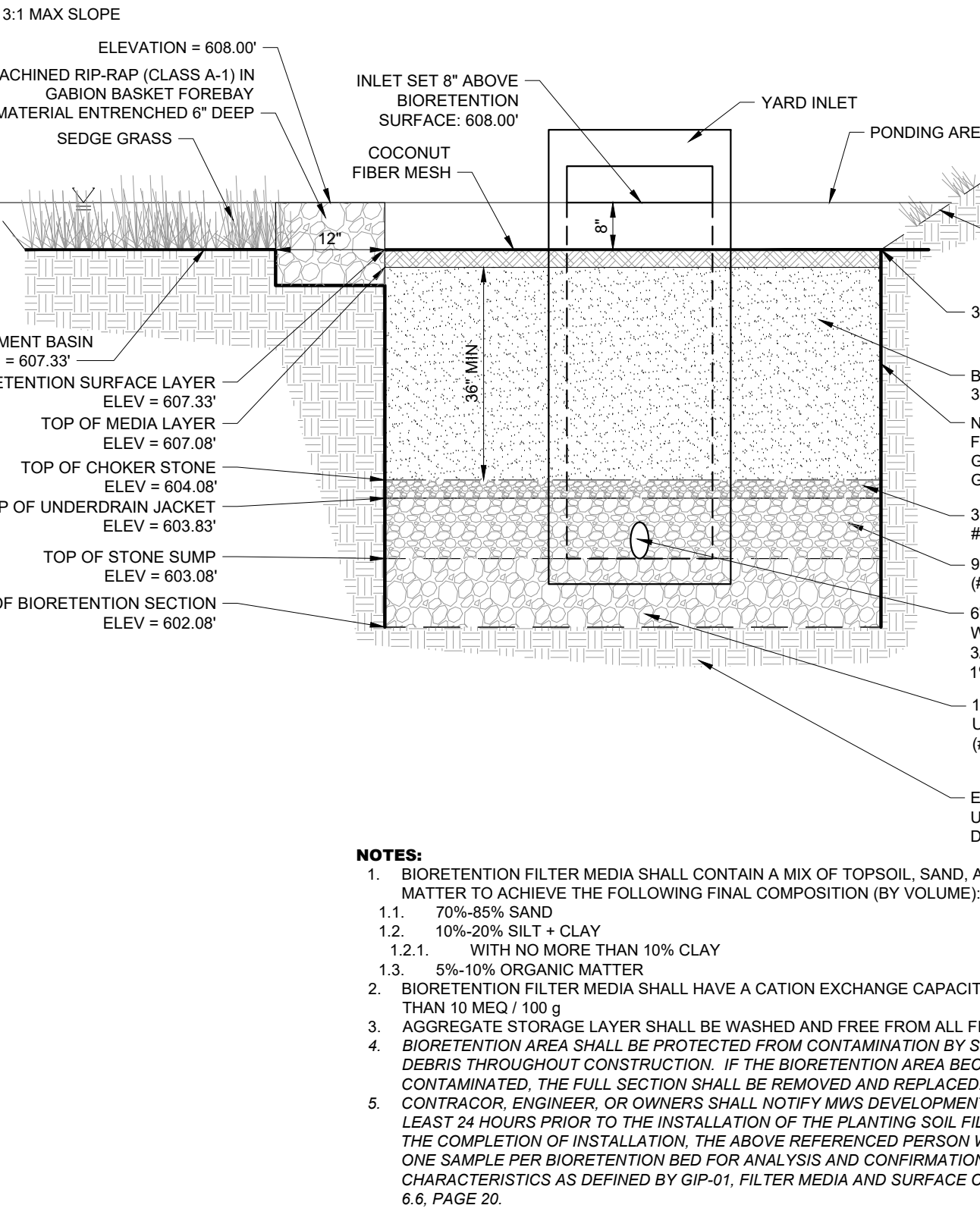


GENERAL NOTES:
1. ALL MATERIAL, DESIGN, MANUFACTURE, PHYSICAL TEST REQUIREMENTS, FINISH MARKING, INSPECTION, REJECTION AND REPAIRS TO MEET STANDARD SPECIFICATION FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPES USING FLEXIBLE ELASTOMERIC SEAL'S. PER ASTM D3212 (LATEST VERSION).

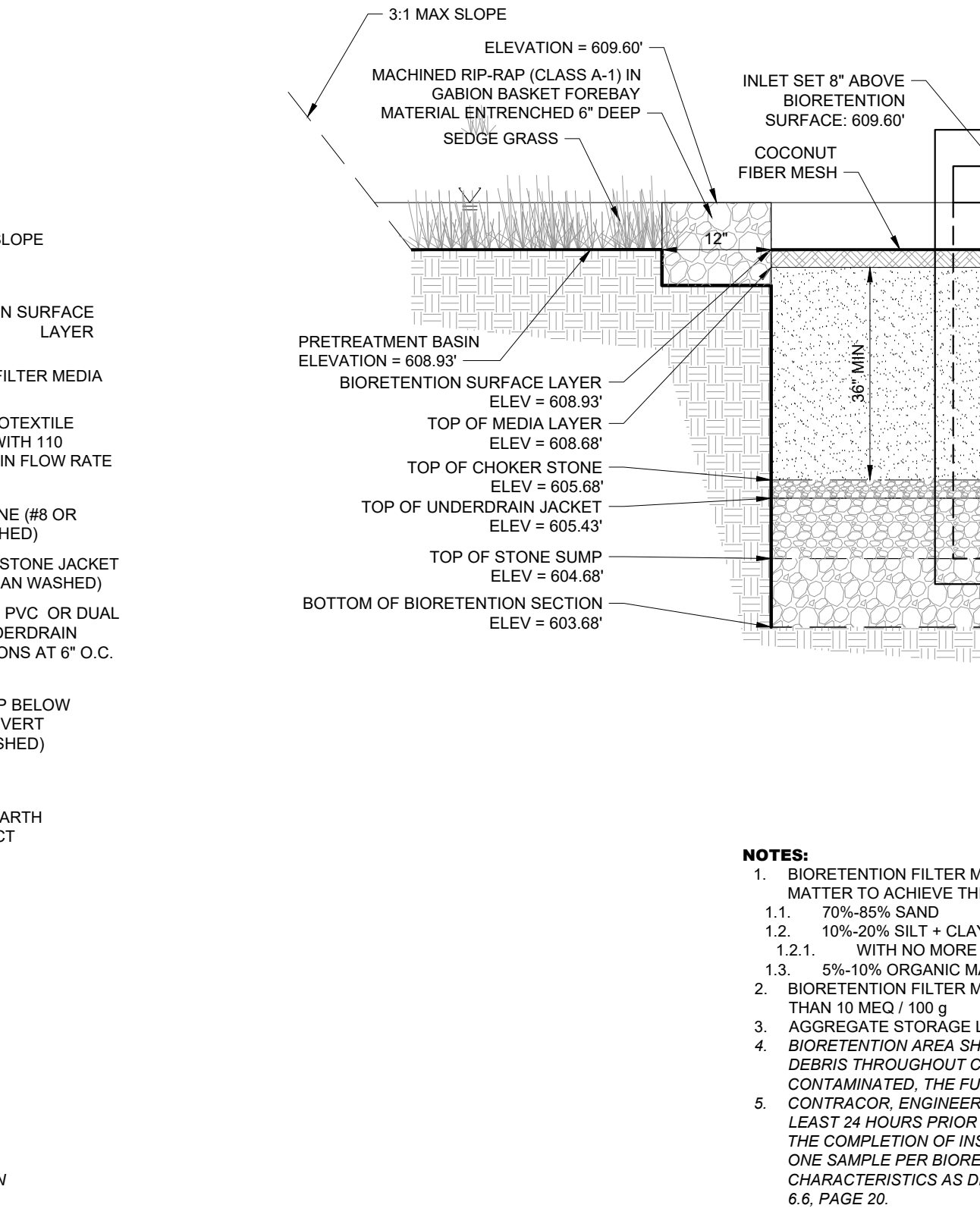
10 YARD INLET
NOT TO SCALE



11 CONCRETE WHEEL STOP
NOT TO SCALE

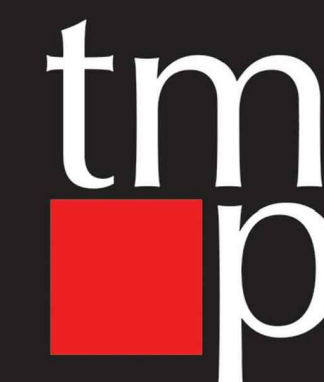


12 LEVEL 2 BIORETENTION AREA - BIORETENTION POND #1
NOT TO SCALE



13 LEVEL 2 BIORETENTION AREA - BIORETENTION POND #2
NOT TO SCALE

CONSTRUCTION SET



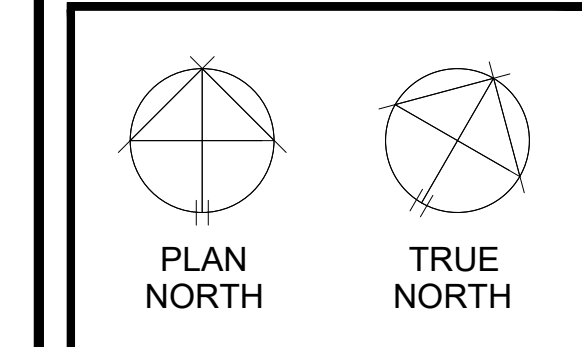
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**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**



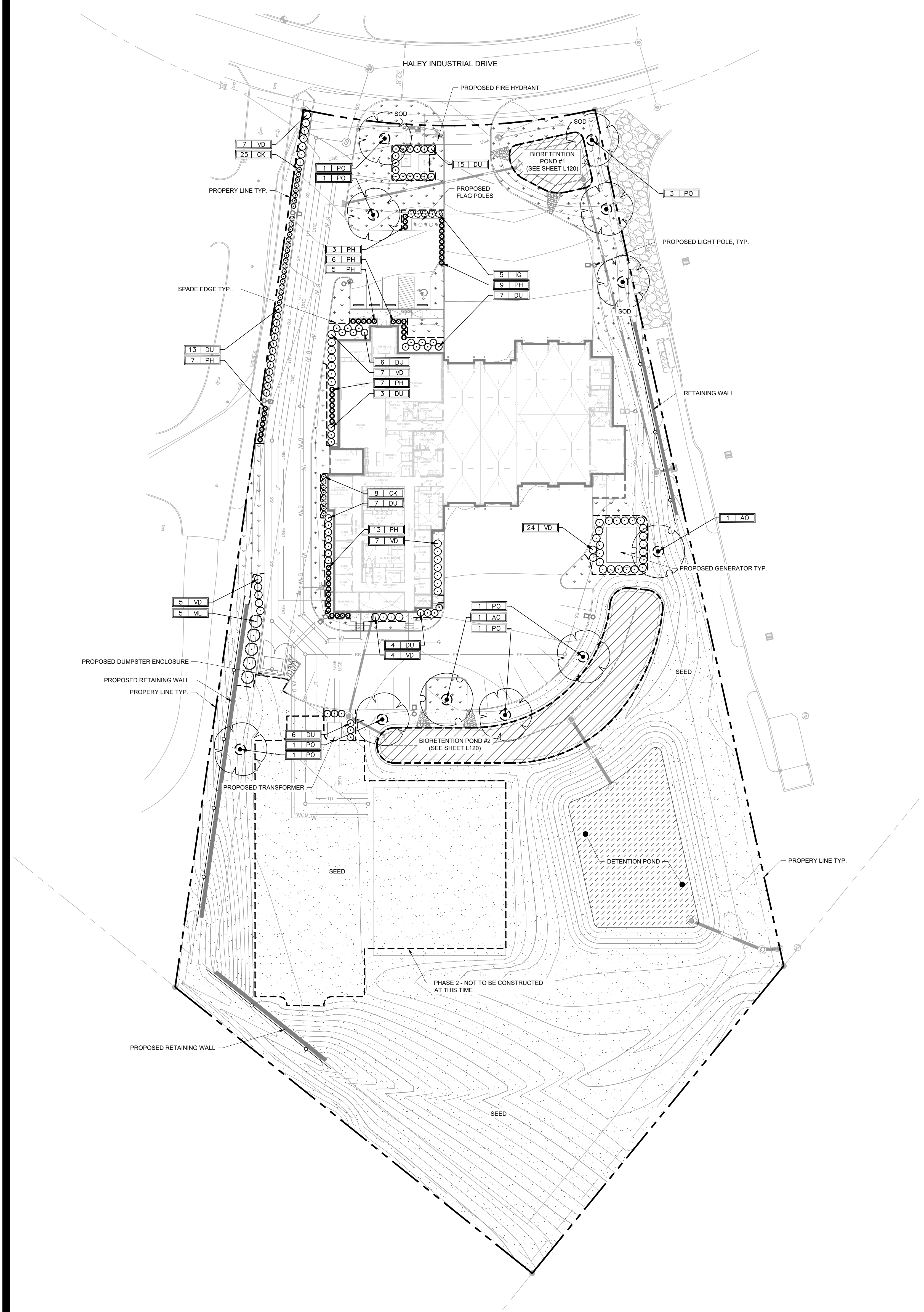
REVISIONS table with columns for date, description, and initials.

DR. BY MTM
CK. BY ZJD
PROJ. NO. A01122
DATE 03/03/2023

LANDSCAPE PLAN

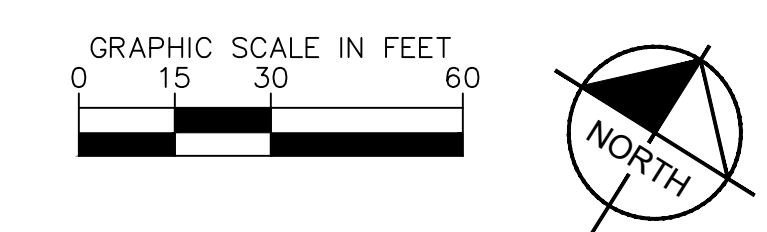
L100

LANDSCAPE DATA TABLE and LANDSCAPE REQUIREMENTS sections.



PLANT SCHEDULE table with columns: CANOPY TREE, EVERGREEN TREES, SHRUBS, ORNAMENTAL GRASSES, GROUND COVERS. Includes botanical and common names, spacing, size, root, and condition.

CONSTRUCTION SET

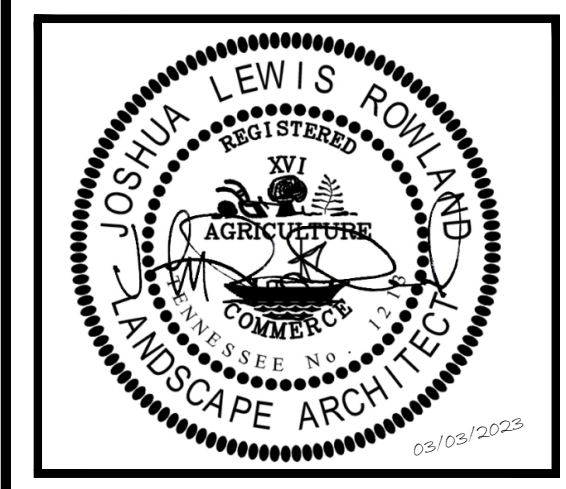


BIORETENTION REQUIREMENTS	
1	BIORETENTION AREA: BIORETENTION SIZE: 1184.62 SF TREES REQUIRED (1 TREE PER 400 SF): 3 TREES PROVIDED: 3
2	BIORETENTION AREA #2: BIORETENTION SIZE: 5015.49 SF TREES REQUIRED (1 TREE PER 400 SF): 13 TREES PROVIDED: 13

ALL BIORETENTION AREAS ARE TO MEET METRO NASHVILLE MINIMUM STANDARDS PER GIP-01 FOR TREES, SHRUBS AND GROUNDCOVER. SHRUBS AND GROUNDCOVER TO BE DESIGNED DURING THE CONSTRUCTION DOCUMENT PHASE.

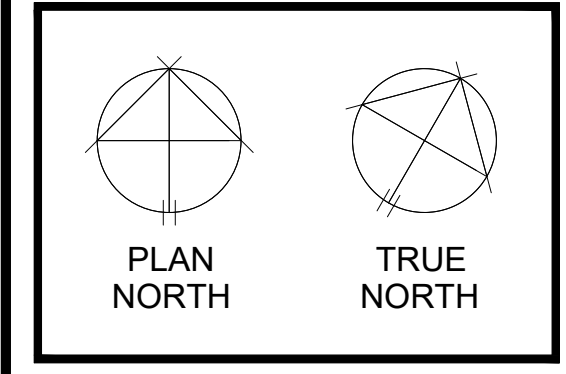
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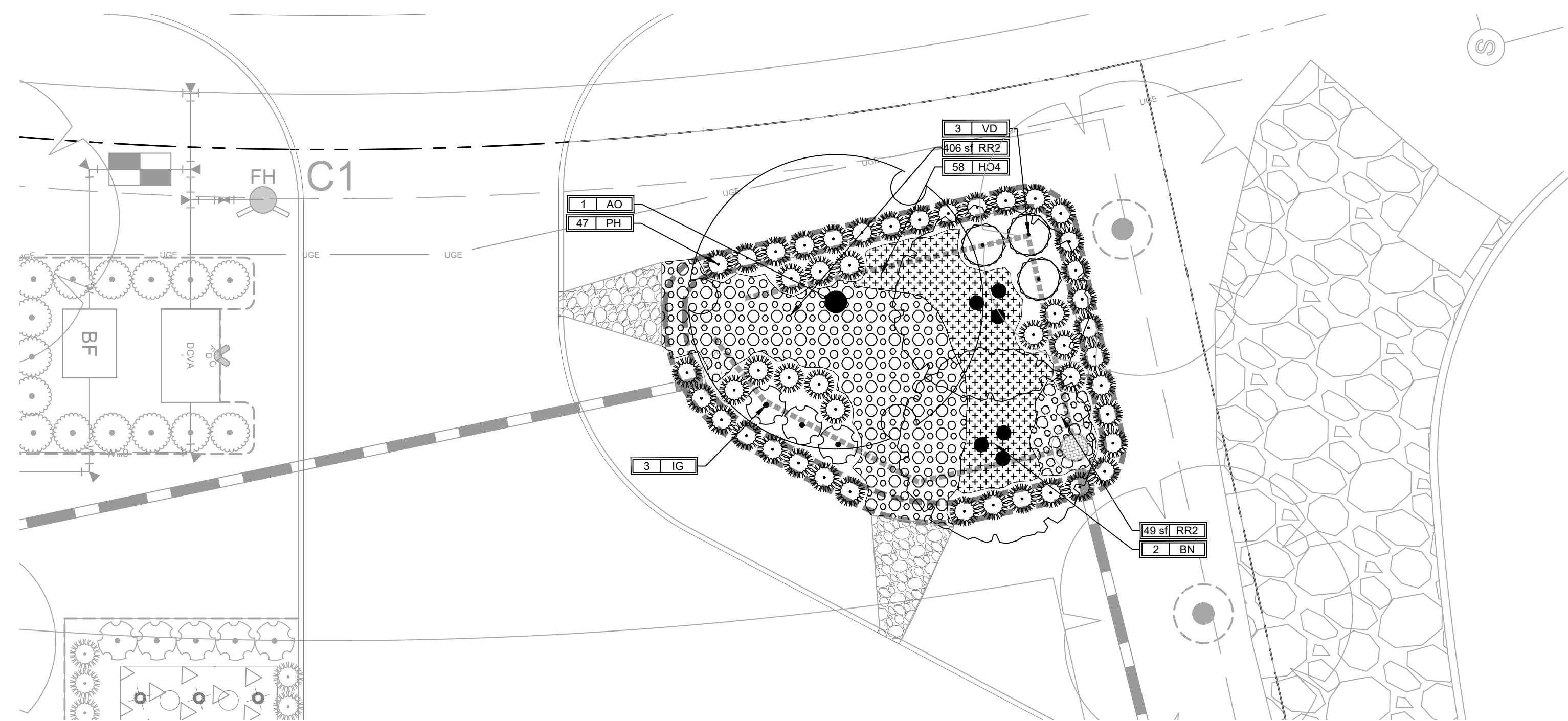
**TOWN OF NOLENSVILLE
 FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE**



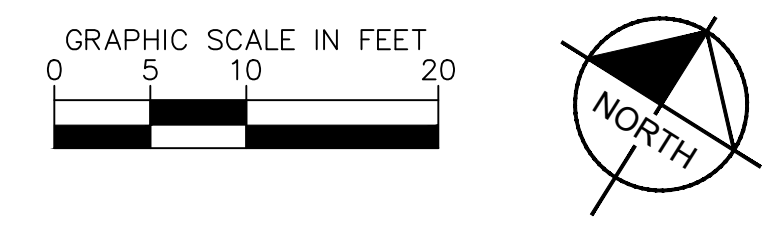
REVISIONS	

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 CK. BY: ZJD
 PROJ. NO.: A01122
 DATE: 03/03/2023

BIORETENTION PLANTING PLAN
L120

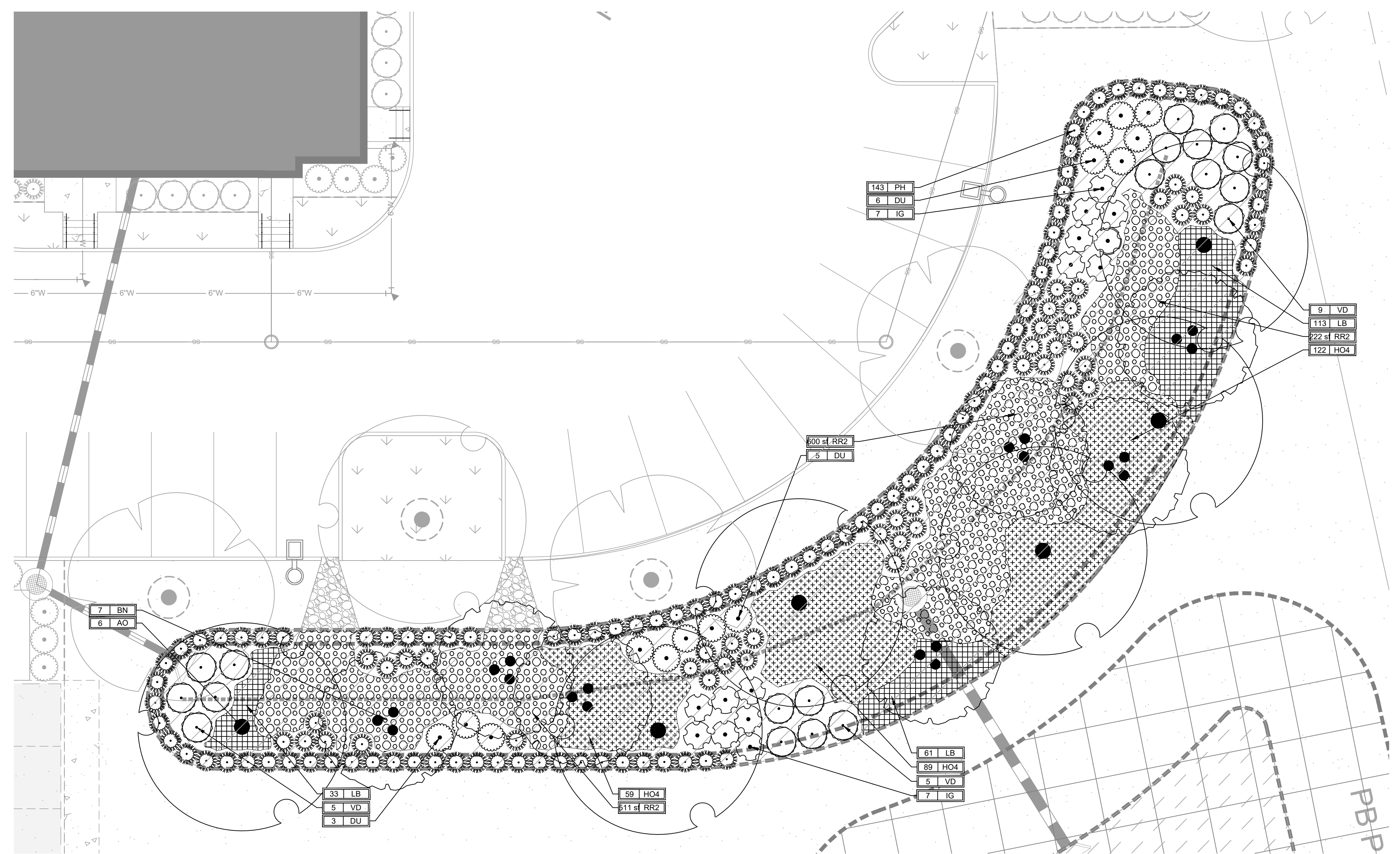


BIORETENTION AREA #1

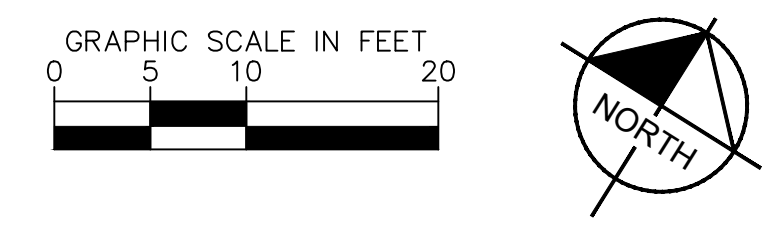


PLANT SCHEDULE BIORETENTION AREA 1

TREES	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	ROOT	CONDITION
	BN 2	BETULA NIGRA	RIVER BIRCH MULTI-TRUNK	AS SHOWN	3" CAL. 12'-14' HT.	B&B	STRAIGHT CENTRAL LEADER, FULL CANOPY, MATCHED
CANOPY TREE	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	ROOT	CONDITION
	AO 1	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	AS SHOWN	3" CAL. 12'-14' HT.	B&B	STRAIGHT CENTRAL LEADER, FULL CANOPY, MATCHED
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	ROOT	CONDITION
	IG 3	ILEX GLABRA	INKBERRY HOLLY	AS SHOWN	24" MIN. HT.	3 GAL.	MATCHED, FULL, FREE OF WEEDS
	PH 47	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	AS SHOWN	36" MIN. HT.	3 GAL.	MATCHED, FULL, FREE OF WEEDS
ORNAMENTAL GRASSES	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	ROOT	CONDITION
	VD 3	VIBURNUM DENTATUM 'BLUE MUFFIN'	SOUTHERN ARROWWOOD	AS SHOWN	24" MIN. HT.	3 GAL.	MATCHED, FULL, FREE OF WEEDS
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	ROOT	CONDITION
	H04 58	HEMEROCALLIS X 'STELLA DE ORO'	STELLA DE ORO DAYLILY	12" O.C.	#5 CONT.		MATCHED, FULL, FREE OF WEEDS
	RR2 455 SF	RIVER ROCK	RIVER ROCK	-	3" - 5" ASSORTED FLATS & ROUNDS		



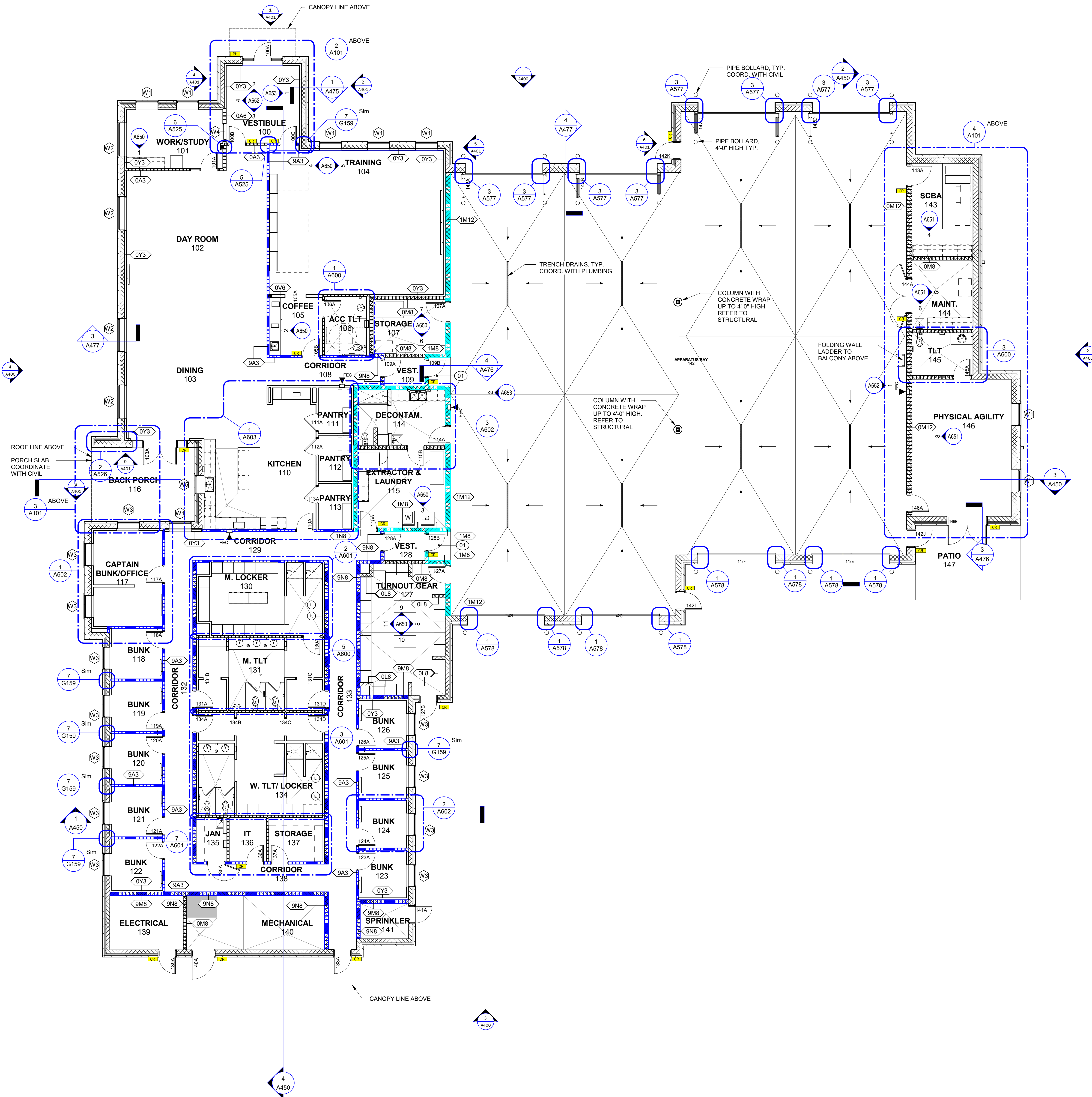
BIORETENTION AREA #2



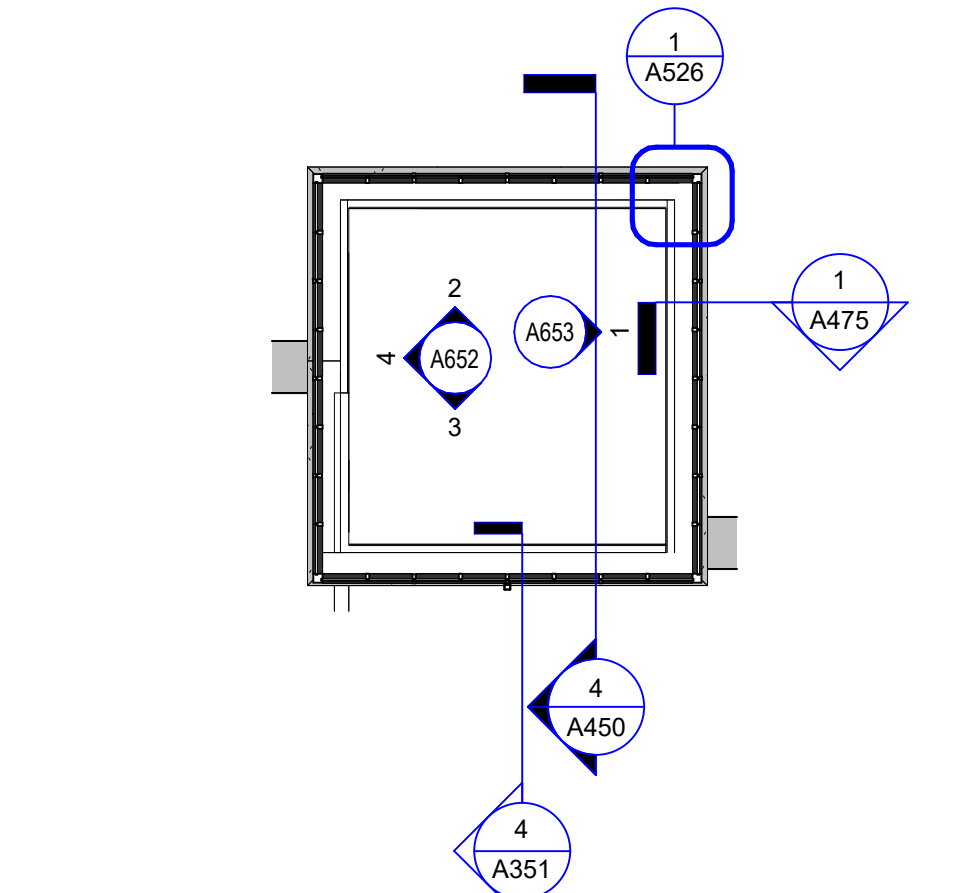
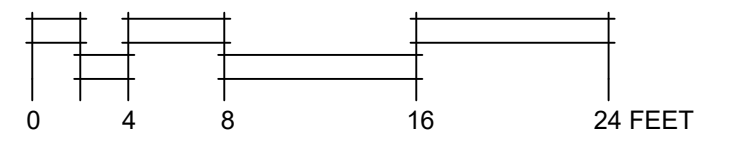
PLANT SCHEDULE BIORETENTION AREA 2

TREES	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	ROOT	CONDITION
	BN 7	BETULA NIGRA	RIVER BIRCH MULTI-TRUNK	AS SHOWN	3" CAL. 12'-14' HT.	B&B	STRAIGHT CENTRAL LEADER, FULL CANOPY, MATCHED
CANOPY TREE	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	ROOT	CONDITION
	AO 6	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	AS SHOWN	3" CAL. 12'-14' HT.	B&B	STRAIGHT CENTRAL LEADER, FULL CANOPY, MATCHED
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	ROOT	CONDITION
	DU 14	DISTYLIS X PHIDIST-F	EMERALD HEIGHTS® DISTYLIS	AS SHOWN	24" MIN. HT.	3 GAL.	MATCHED, FULL, FREE OF WEEDS
	IG 14	ILEX GLABRA	INKBERRY HOLLY	AS SHOWN	24" MIN. HT.	3 GAL.	MATCHED, FULL, FREE OF WEEDS
	PH 143	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	AS SHOWN	36" MIN. HT.	3 GAL.	MATCHED, FULL, FREE OF WEEDS
ORNAMENTAL GRASSES	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	ROOT	CONDITION
	VD 19	VIBURNUM DENTATUM 'BLUE MUFFIN'	SOUTHERN ARROWWOOD	AS SHOWN	24" MIN. HT.	3 GAL.	MATCHED, FULL, FREE OF WEEDS
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	ROOT	CONDITION
	H04 270	HEMEROCALLIS X 'STELLA DE ORO'	STELLA DE ORO DAYLILY	12" O.C.	#5 CONT.		MATCHED, FULL, FREE OF WEEDS
	LB 207	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILTURF	18" O.C.	#5 CONT.		MATCHED, FULL, FREE OF WEEDS
	RR2 1,333 SF	RIVER ROCK	RIVER ROCK	-	3" - 5" ASSORTED FLATS & ROUNDS		

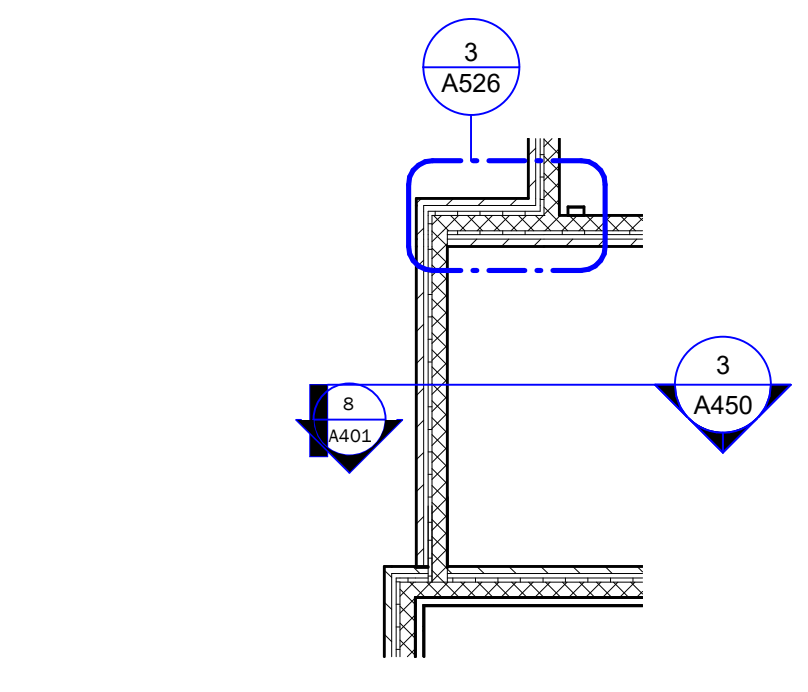
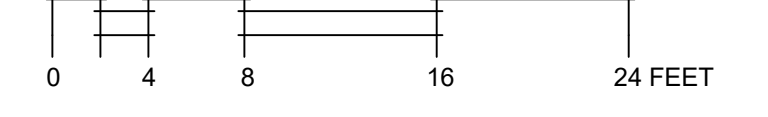
CONSTRUCTION SET



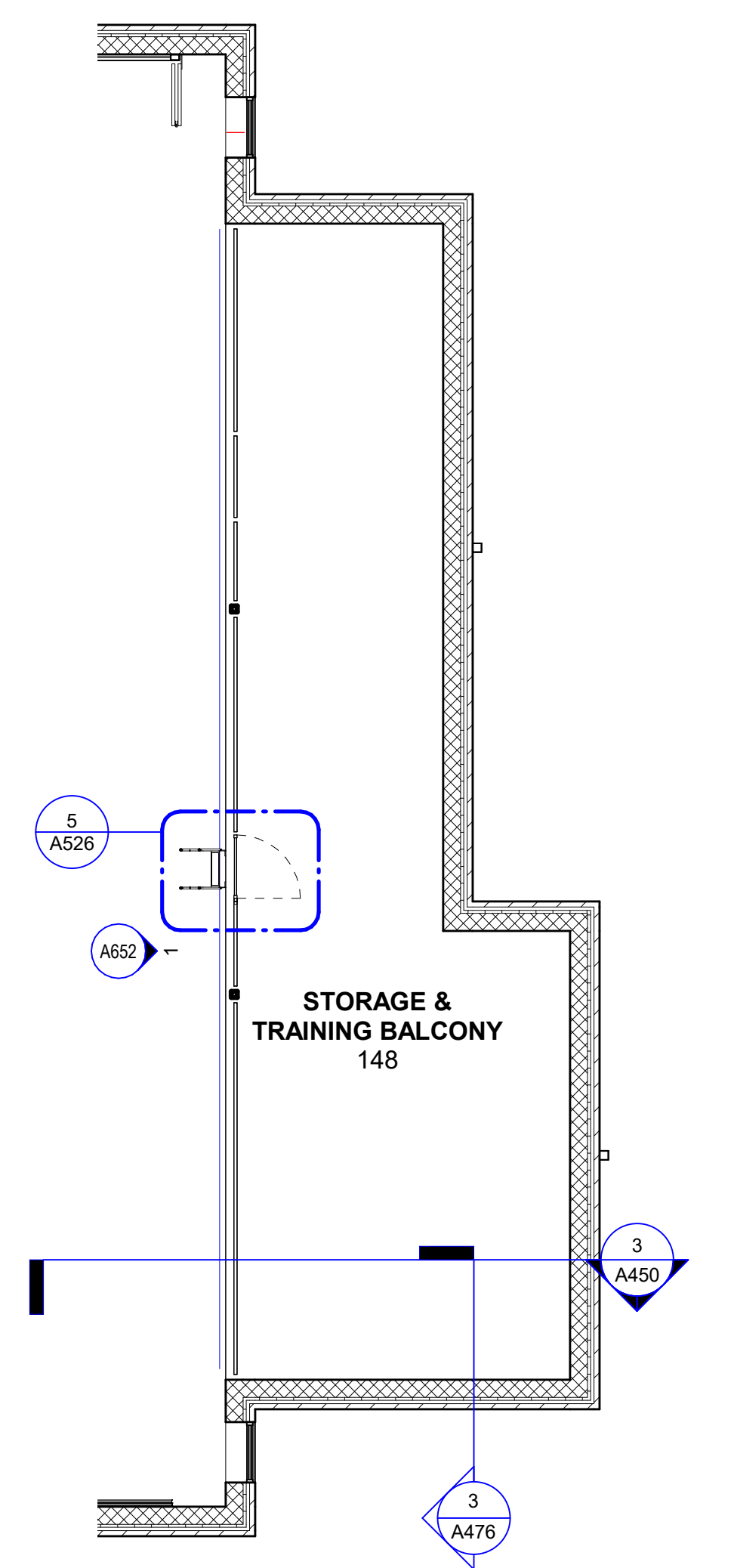
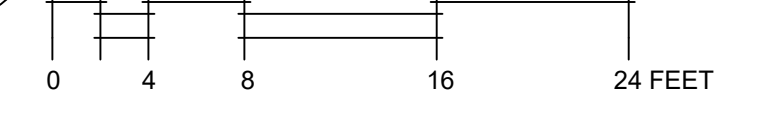
1 LEVEL 1 FLOOR PLAN



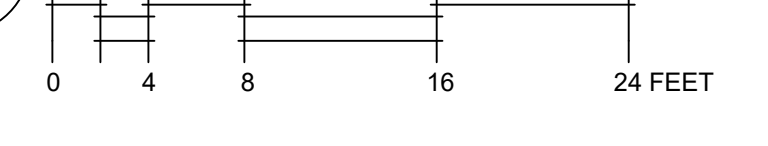
2 VEST. CLERESTORY PLAN



3 BACK PORCH UPPER PLAN



4 MEZZANINE FLOOR PLAN



WALL LEGEND

NEW CONSTRUCTION

REFER TO THE G150 SERIES SHEETS FOR PARTITION TYPES AND DETAILS

- NON-RATED PARTITION
- NON-RATED SOUND PARTITION
- NON-RATED CMU PARTITION
- NON-RATED CMU SOUND PARTITION
- 1/2 HOUR FIRE PARTITION
- 1/2 HOUR CMU FIRE PARTITION
- 1 HOUR CMU FIRE BARRIER

NOTED PLAN GENERAL NOTES

- REFER TO SHEET G100 FOR CODE REVIEW DATA.
- ALL COLUMN FURR-OUTS TO BE HELD TIGHT TO COLUMNS, UNLESS OTHERWISE NOTED.

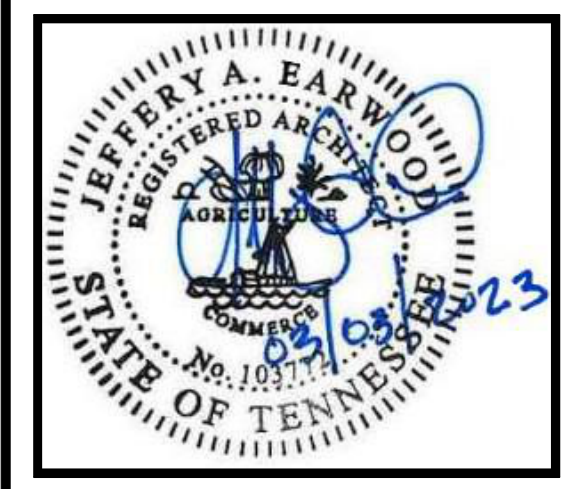
ACCESS CONTROL KEY LEGEND

- AUTOMATIC DOOR
- CR CARD READER
- INT INTERCOM
- PH PHONE

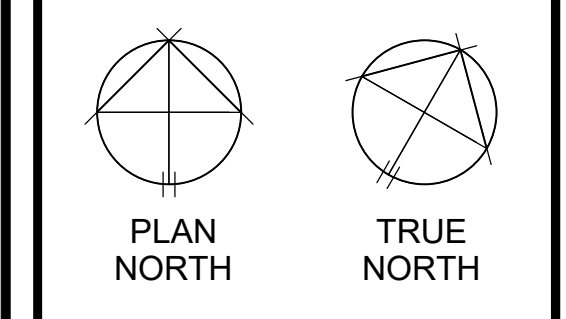
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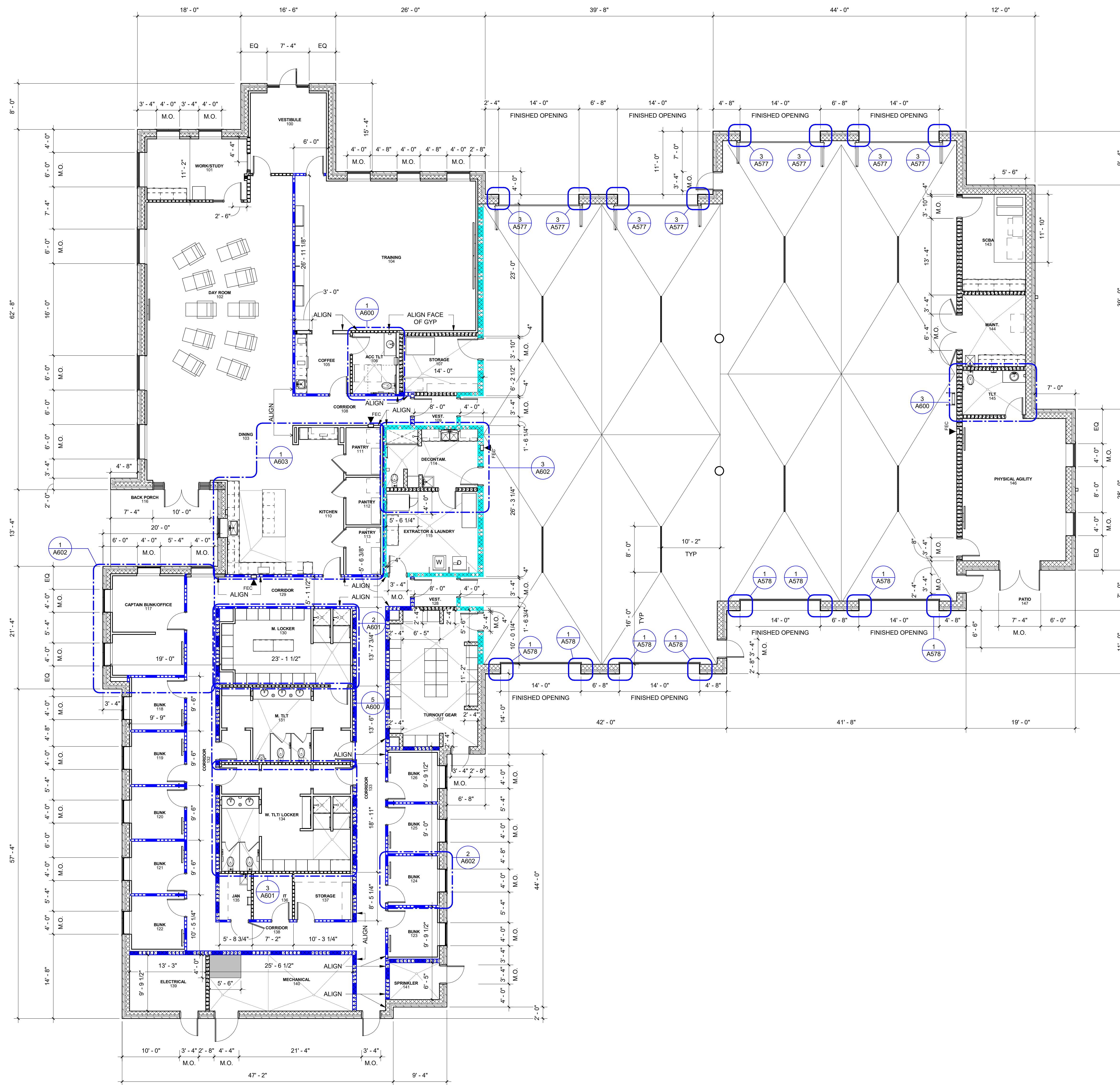
REVISIONS

NO.	DESCRIPTION	DATE

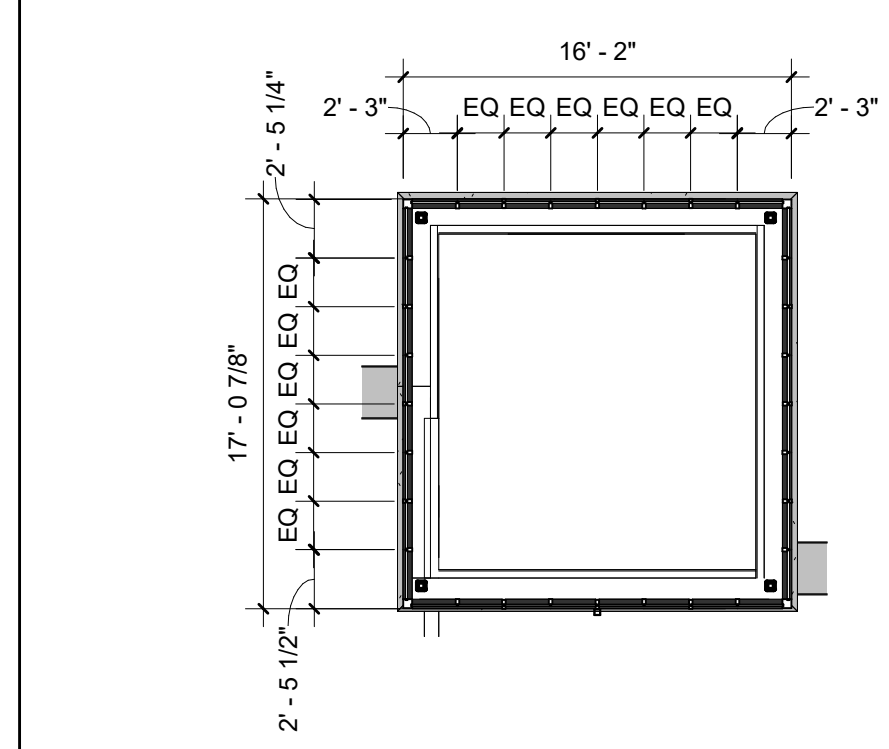
DR. BY SH
CK. BY JE, LS
PROJ. NO. A01122
DATE 03/03/23

LEVEL 1 FLOOR PLAN

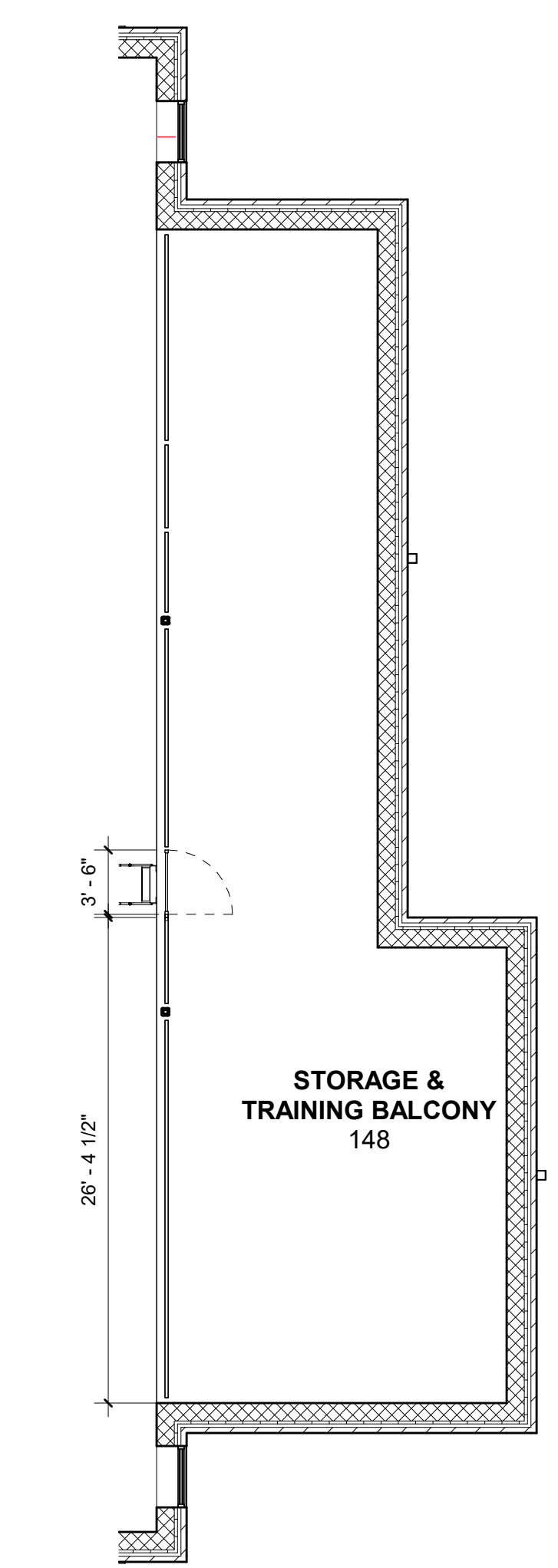
A101



1 LEVEL 1 DIMENSION PLAN



3 VEST. CLERESTORY DIM. PLAN



2 MEZZANINE DIMENSION PLAN

WALL LEGEND

NEW CONSTRUCTION

REFER TO THE G-150 SERIES SHEETS FOR PARTITION TYPES AND DETAILS

- NON-RATED PARTITION
- NON-RATED SOUND PARTITION
- NON-RATED CMU PARTITION
- NON-RATED CMU SOUND PARTITION
- 1/2 HOUR FIRE PARTITION
- 1 HOUR CMU FIRE BARRIER

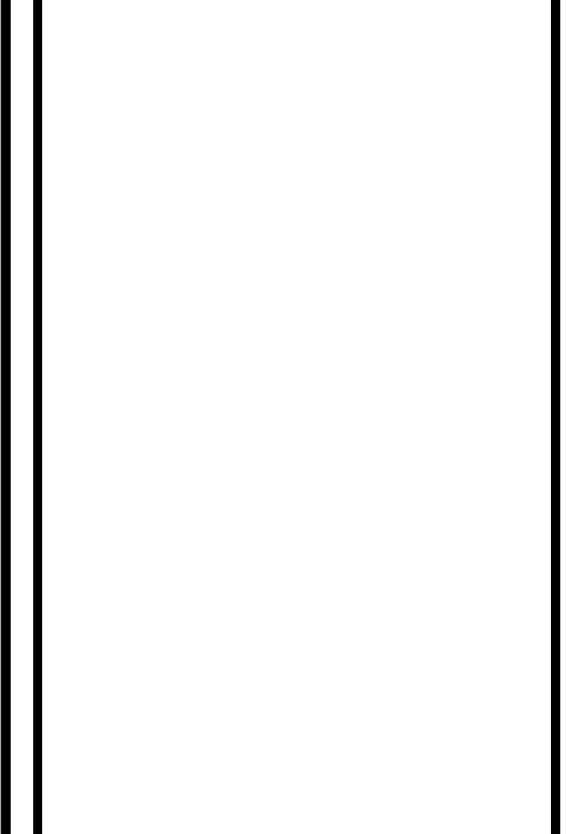
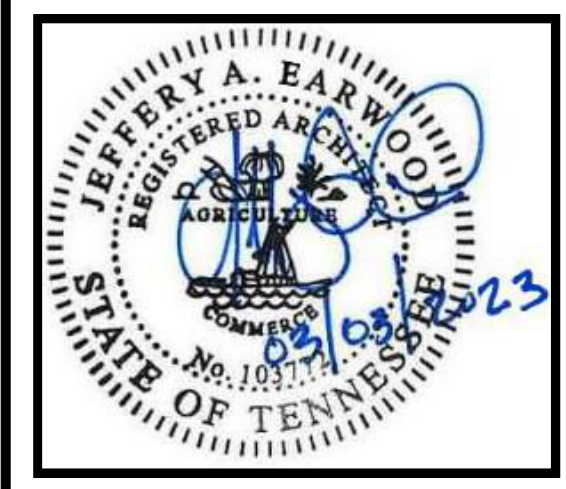
DIMENSION GENERAL NOTES

- COORDINATE WITH SHEET G-100 FOR GENERAL NOTES.
- ALL COLUMN FURR-OUTS TO BE HELD TIGHT TO COLUMNS, UNLESS OTHERWISE NOTED.
- THE HINGE SIDE OF ALL DOOR FRAMES SHALL HAVE 4" CLEAR BETWEEN THE EDGE OF THE DOOR FRAME AND THE ADJACENT WALL. REFER TO 2/G175 FOR ADDITIONAL DOOR SWING AND DIMENSIONAL INFORMATION.
- CENTER ALL CROSS CORRIDOR DOORS WITHIN THE CORRIDOR.
- REFER TO ENLARGED PLANS AND CASEWORK ELEVATIONS FOR ADDITIONAL DIMENSIONAL INFORMATION.

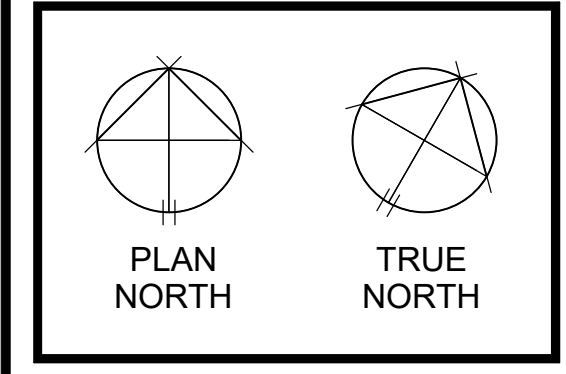
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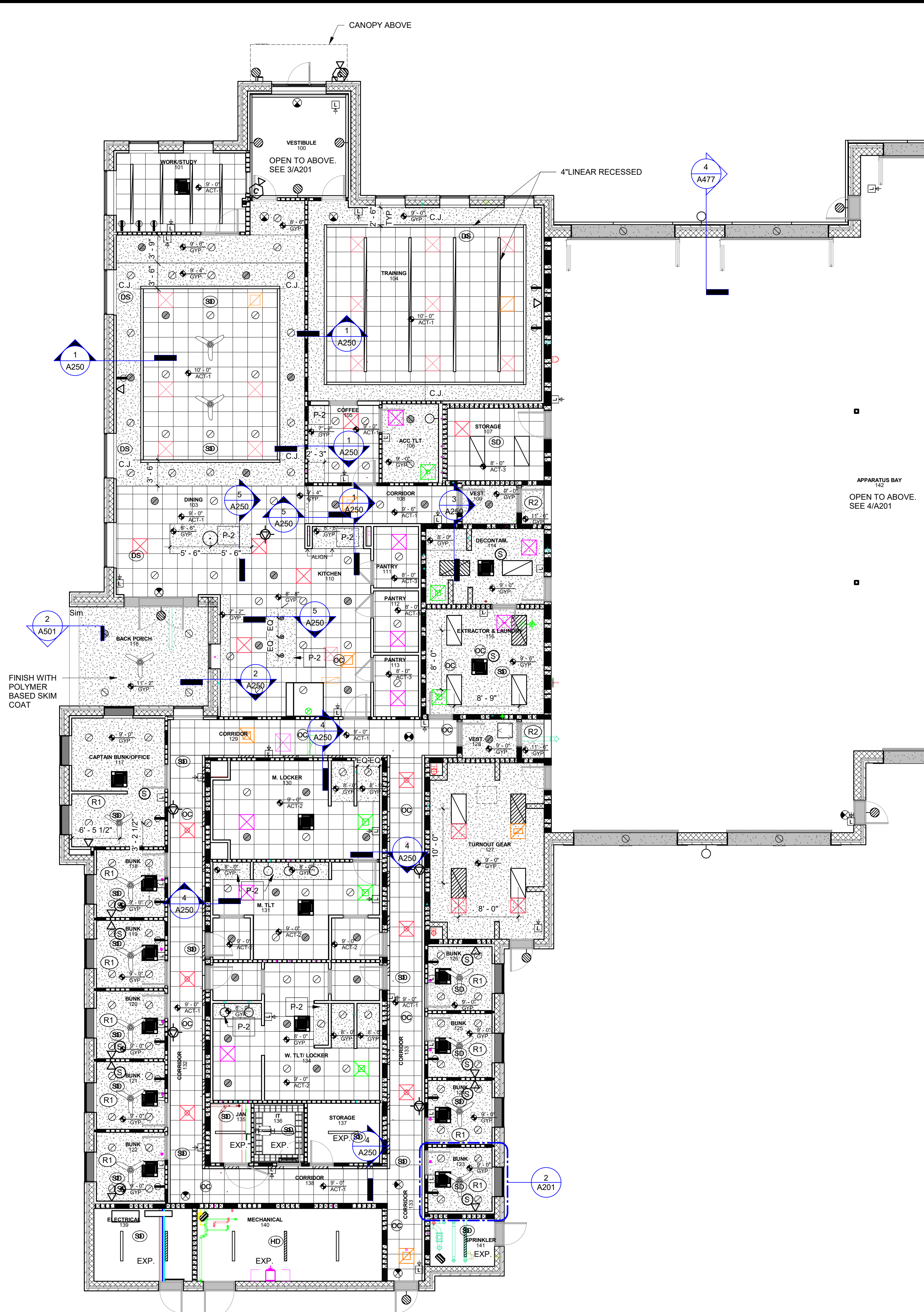
REVISIONS

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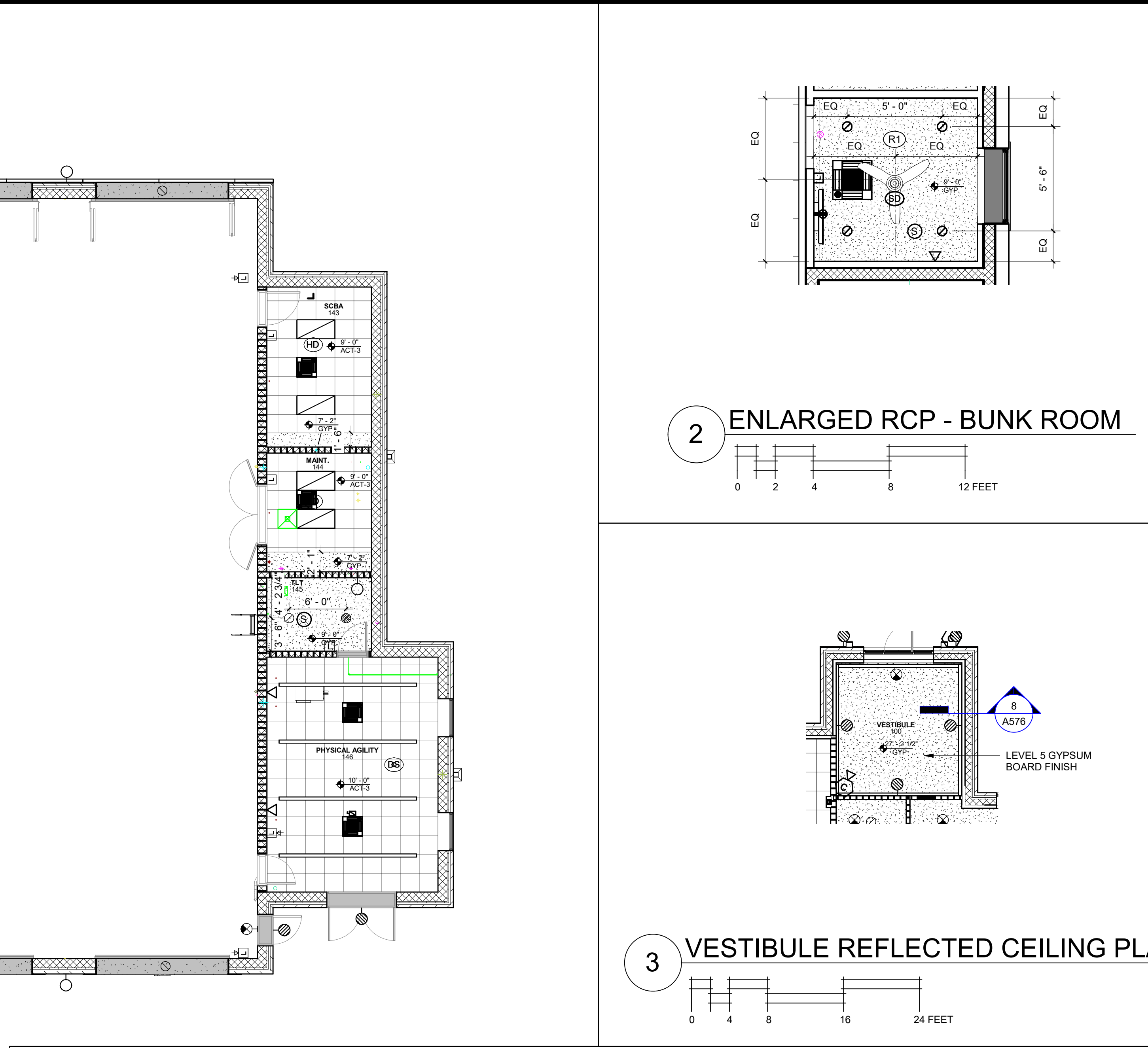
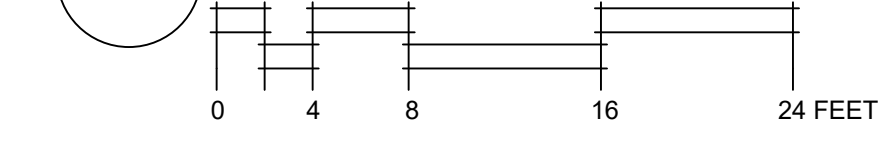
DR. BY SH, NT
CK. BY JE, LS
PROJ. NO. A01122
DATE 03/03/23

LEVEL 1 DIMENSION PLAN

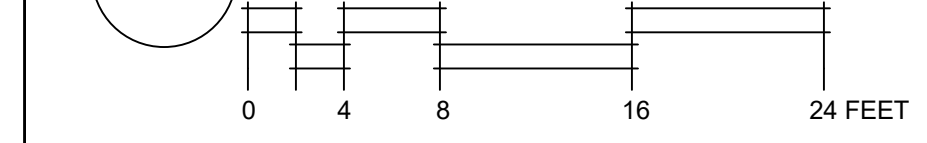
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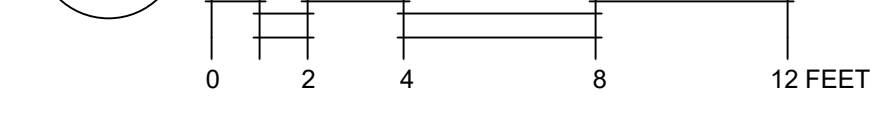
1 LEVEL 1 REFLECTED CEILING PLAN



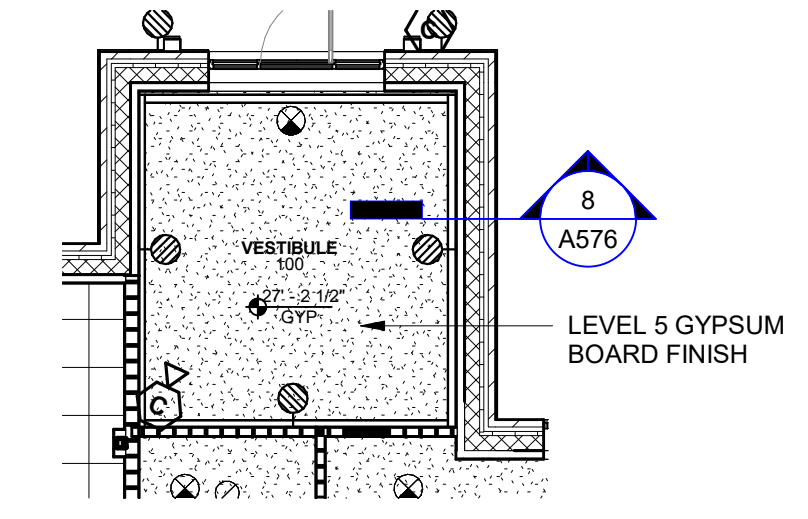
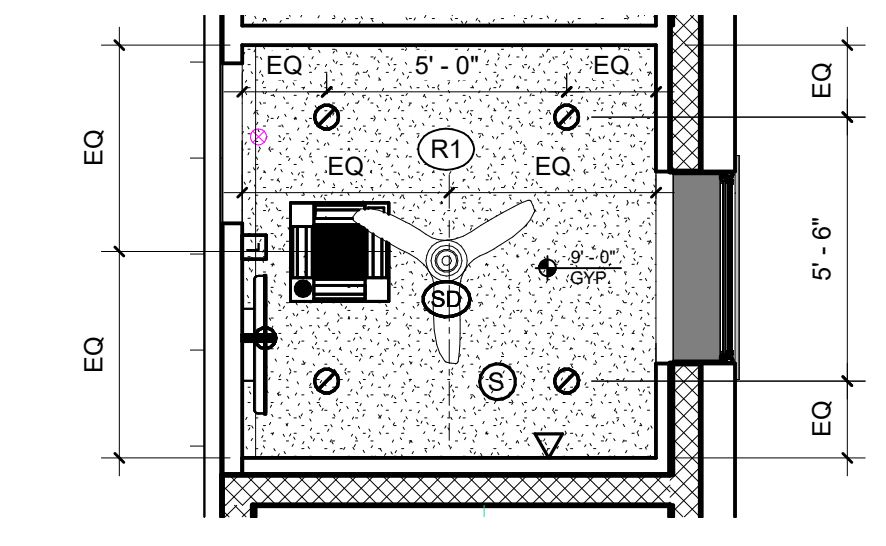
4 APPARATUS BAY REFLECTED CEILING PLAN



2 ENLARGED RCP - BUNK ROOM



3 VESTIBULE REFLECTED CEILING PLAN



WALL LEGEND

NEW CONSTRUCTION

REFER TO THE G150 SERIES SHEETS FOR PARTITION TYPES AND DETAILS

- NON-RATED PARTITION
- NON-RATED SOUND PARTITION
- NON-RATED CMU PARTITION
- NON-RATED CMU SOUND PARTITION
- 1/2 HOUR FIRE PARTITION
- 1/2 HOUR CMU FIRE PARTITION
- 1 HOUR CMU FIRE BARRIER

- RCP GENERAL NOTES**
- CONTRACTOR TO COORDINATE ALL ABOVE CEILING DUCTWORK, PIPES, ETC. TO MEET CEILING HEIGHTS AS SHOWN ON DRAWINGS.
 - PROVIDE ONE SUPPORT HANGER AT EACH CORNER OF SUSPENSION CEILING SYSTEM AT PERIMETER OF CEILING MOUNTED LIGHT FIXTURES. REFER TO SHEET A250 FOR ADDITIONAL INFORMATION. CEILING LIGHT FIXTURES, DIFFUSERS AND GRILLES ARE TO BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE.
 - CENTER CEILING GRIDS IN BOTH DIRECTIONS OF SPACE UNLESS NOTED OTHERWISE.
 - CENTER ALL LIGHT FIXTURES, DEVICES, AND SPRINKLER HEADS IN CEILING TILES.
 - CENTER ALL EXIT SIGNS OVER EXIT DOORS UNLESS NOTED OTHERWISE.
 - REPAIR EXISTING CEILING GRID AND TILES AS NECESSARY AT CONSTRUCTION TIE-INS.
 - LIGHTS OVER SHOWERS SHALL BE CENTERED IN GYPSUM BOARD FURR DOWN.

RCP LEGEND

- EXIT LIGHT (COORDINATE WITH ELECTRICAL LIGHTING PLAN)
- SMOKE DETECTOR (COORDINATE WITH ELECTRICAL POWER AND SYSTEMS PLAN)
- HEAT DETECTOR (COORDINATE WITH ELECTRICAL POWER AND SYSTEMS PLAN)
- 2' x 4' RECESSED LIGHT FIXTURE (COORDINATE WITH ELECTRICAL LIGHTING PLAN)
- RETURN GRILLE (SIZE VARIES) COORDINATE WITH MECHANICAL
- SUPPLY DIFFUSER (SIZE VARIES) COORDINATE WITH MECHANICAL
- EXHAUST REGISTER (SIZE VARIES) COORDINATE WITH MECHANICAL
- CEILING CASSETTE (SIZE VARIES) COORDINATE WITH MECHANICAL
- LIGHTING CONTROL (COORDINATE WITH ELECTRICAL)
- LIGHTING CONTROL (COORDINATE WITH ELECTRICAL)
- UNDER CABINET LIGHT FIXTURE (COORDINATE WITH ELECTRICAL LIGHTING PLAN)
- RECESSED CAN LIGHT FIXTURE (COORDINATE WITH ELECTRICAL LIGHTING PLAN)
- WALL SCONCE (COORDINATE WITH ELECTRICAL LIGHTING PLAN)
- SPEAKER (COORDINATE WITH TELECOMMUNICATION)
- FIXED DOME CAMERA (COORDINATE WITH TELECOMMUNICATIONS)
- EXTERIOR WALL MOUNTED LIGHT (COORDINATE WITH ELECTRICAL LIGHTING PLAN)
- 2' x 4' EMERGENCY POWER LIGHT FIXTURE (COORDINATE WITH ELECTRICAL LIGHTING PLAN)
- CEILING ACCESS PANEL
- EXP. EXPOSED CEILING
- GYPSUM BOARD CEILING
- 2' x 2' ACOUSTICAL CEILING TILE
- ↑ DENOTES CEILING HEIGHT ABOVE FINISHED FLOOR U.N.O. DENOTES CEILING TYPE AND FINISH, REFER TO FINISH LEGEND
- CEILING FAN (COORDINATE WITH ELECTRICAL LIGHTING PLAN)
- LARGE BAY CEILING FAN (COORDINATE WITH ELECTRICAL LIGHTING PLAN)

KEYNOTES - RCP

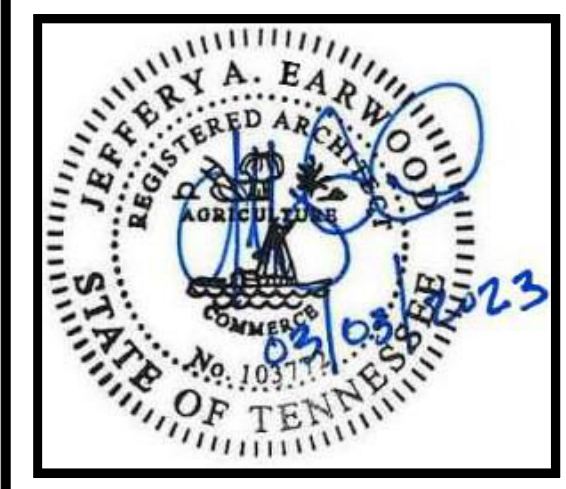
R1 ROOM TO RECEIVE 1"x4" PAINTED WOOD CROWN MOLDING

R2 1 HOUR RATED CEILING. REFER TO UL ASSEMBLY K501.

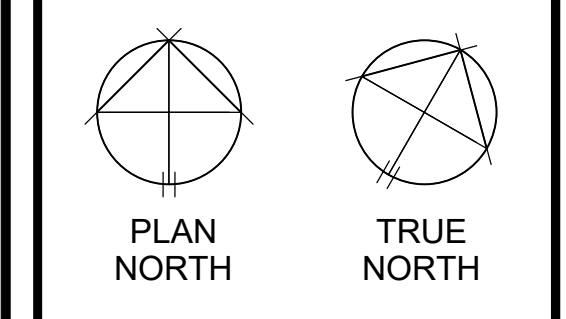
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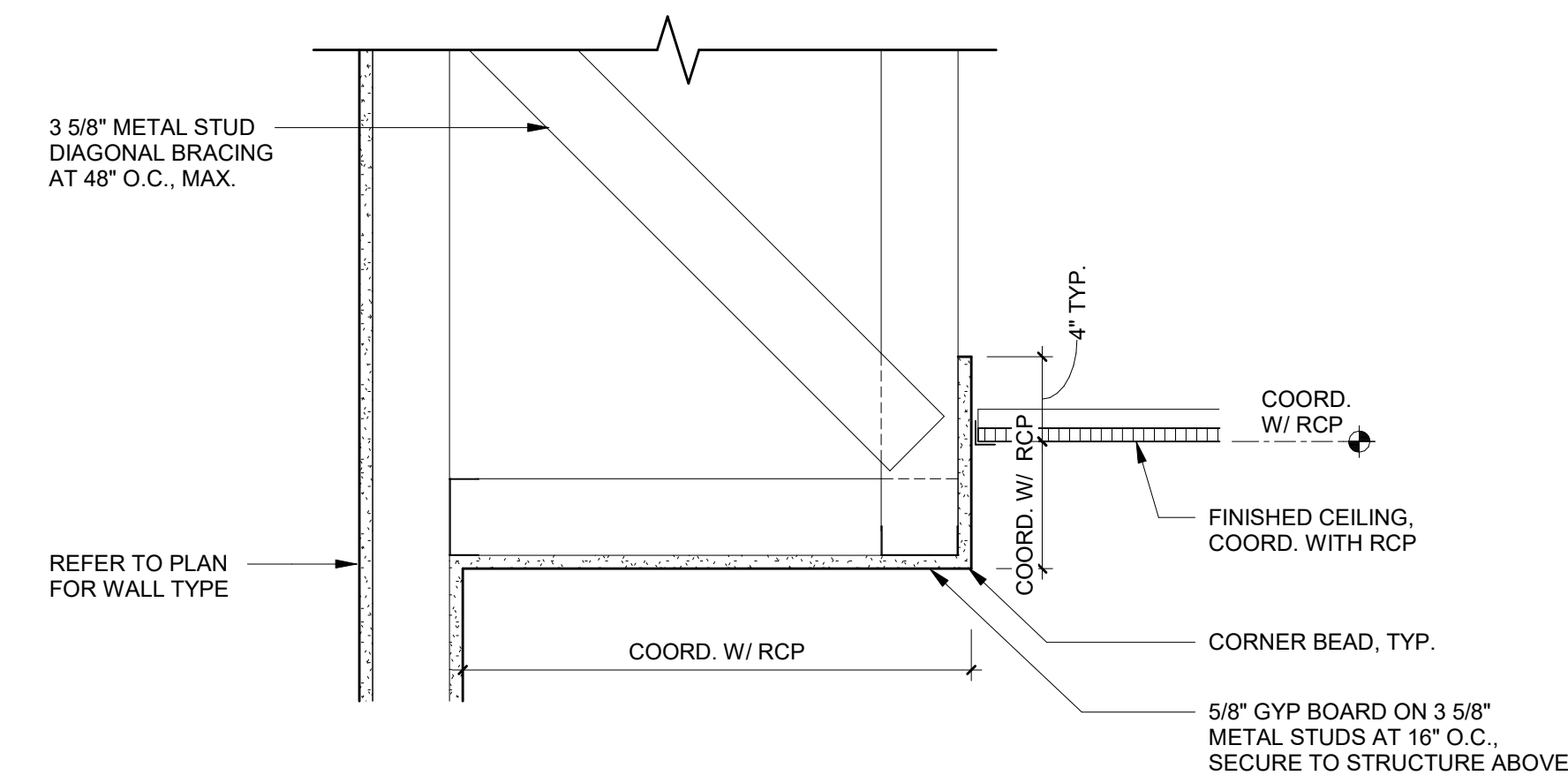
REVISIONS

NO.	DESCRIPTION	DATE

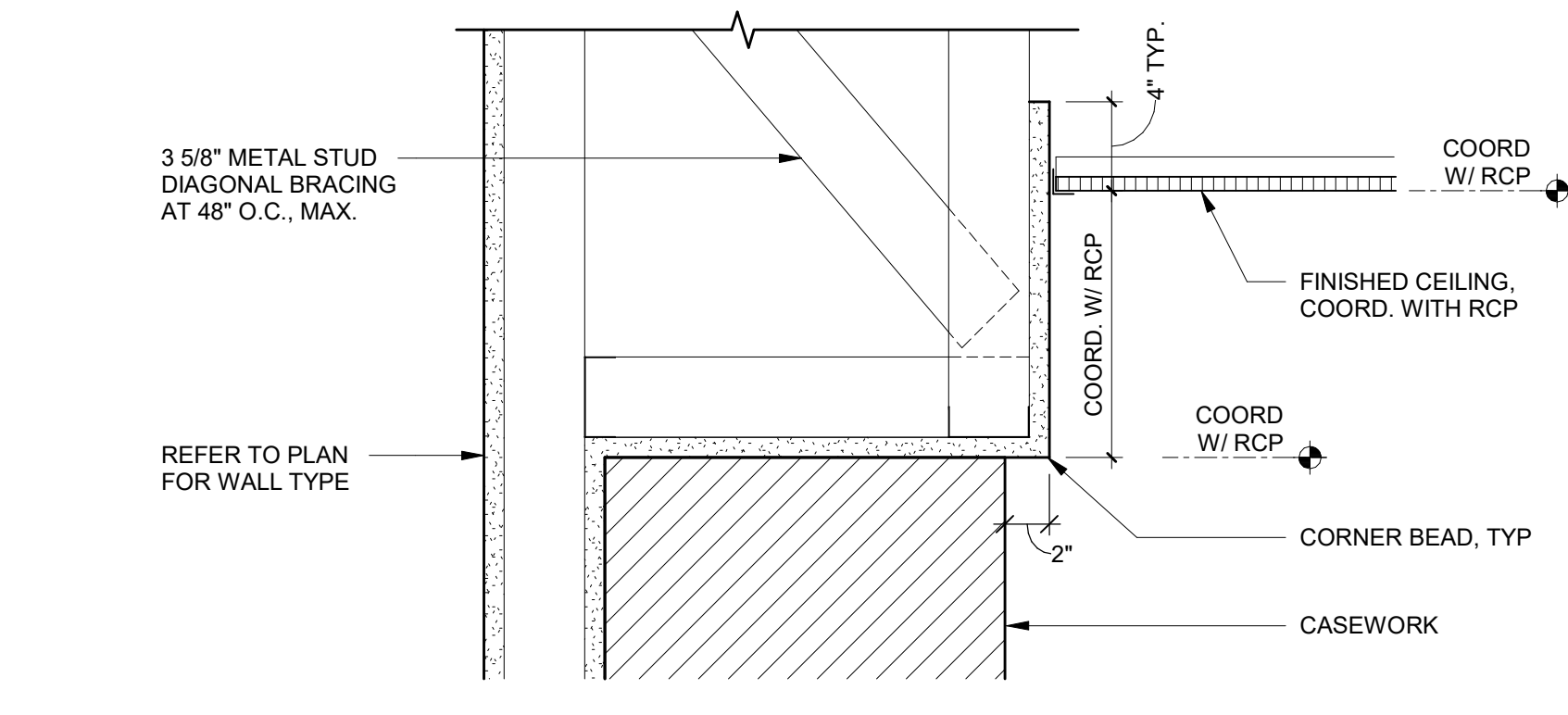
DR. BY	KK, RM
CK. BY	JE, LS
PROJ. NO.	A01122
DATE	03/03/23

LEVEL 1 REFLECTED CEILING PLAN

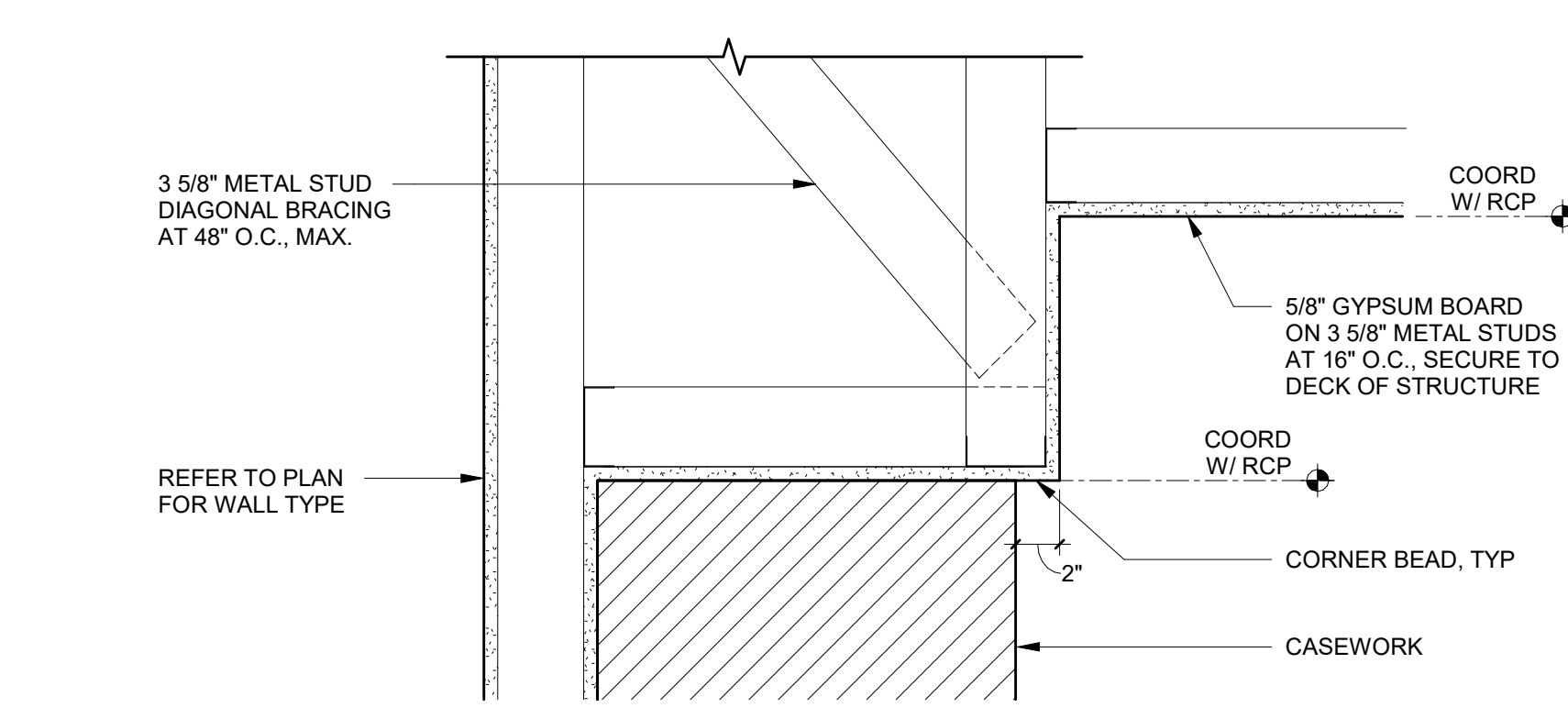
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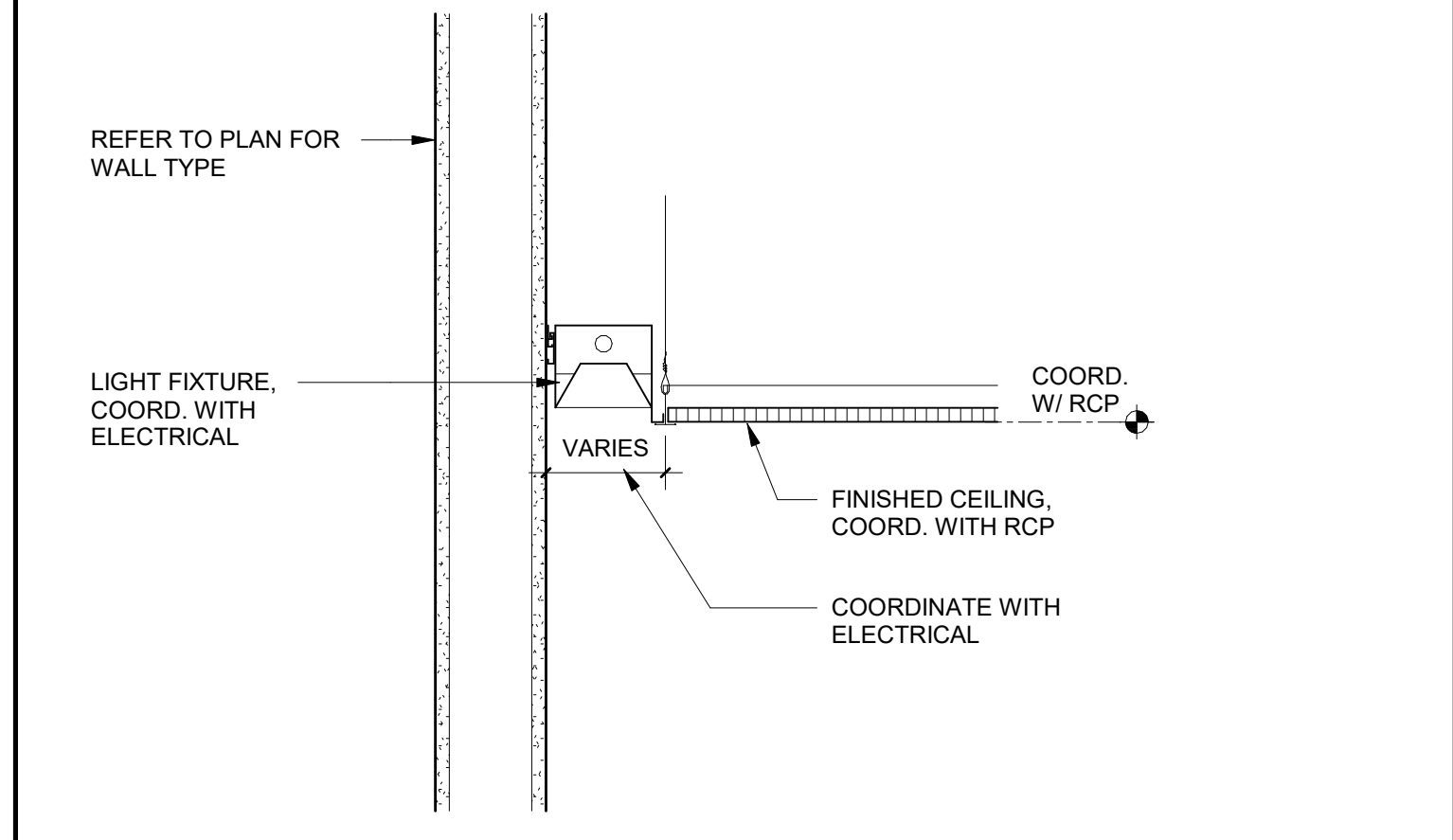
1 DETAIL - TYPICAL SOFFIT



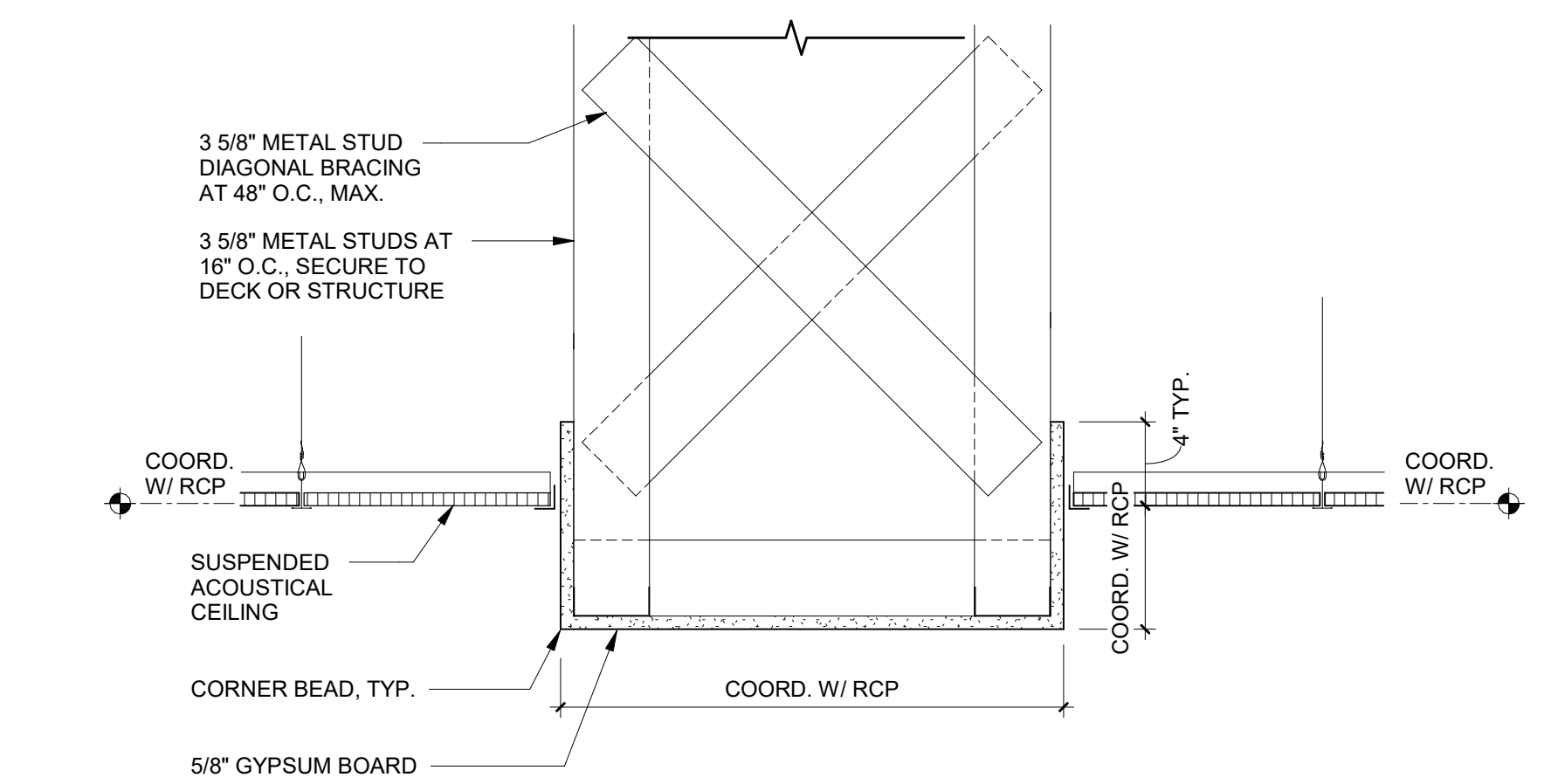
2 DETAIL - TYPICAL SOFFIT AT CASEWORK AT ACT



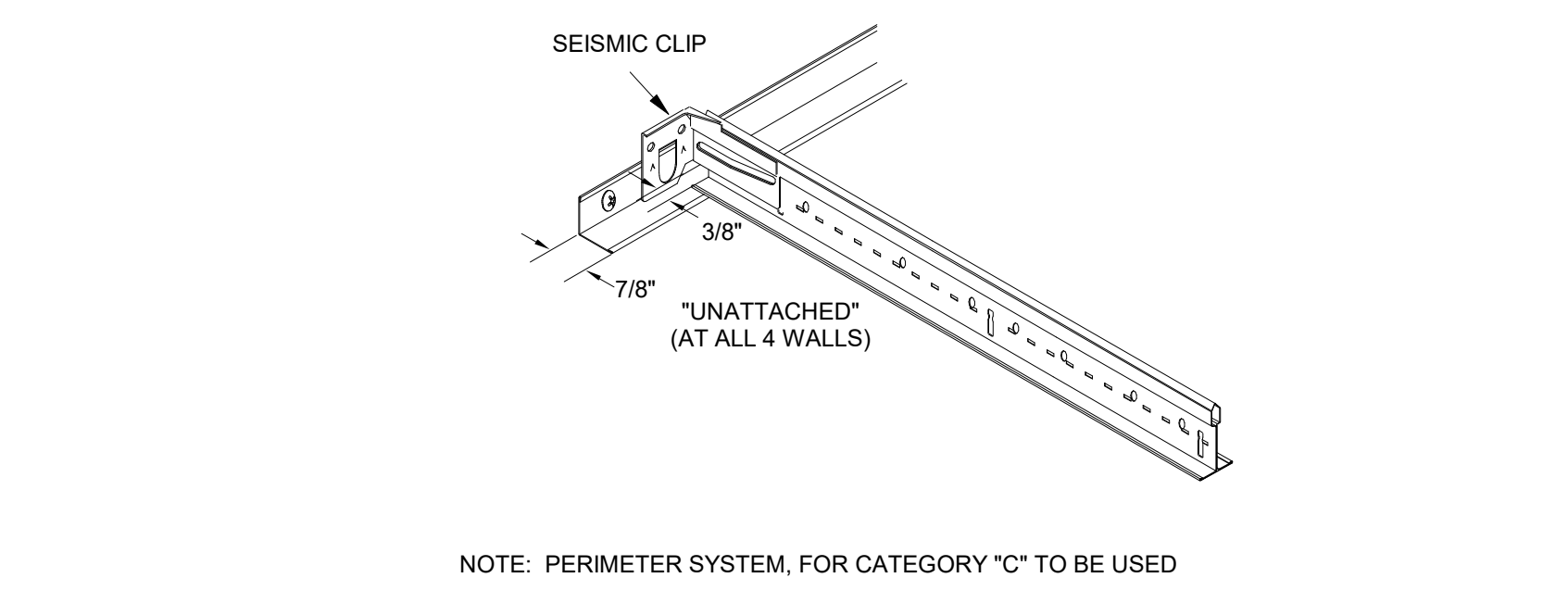
3 DETAIL - TYPICAL SOFFIT AT CASEWORK AT GYP



4 DETAIL - TYPICAL LIGHT COVE



5 DETAIL - TYPICAL BULKHEAD

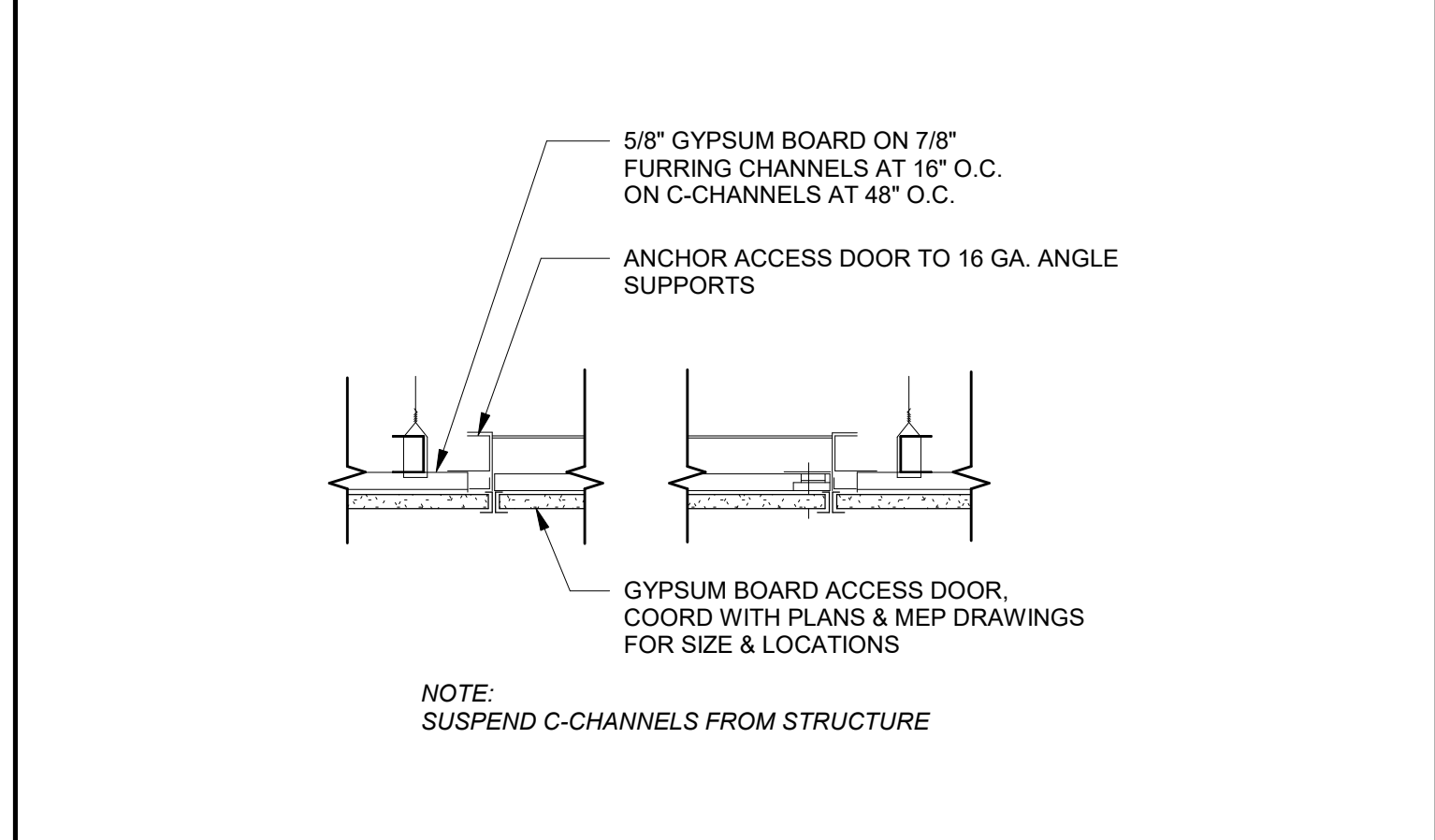


6 DETAIL - SEISMIC SUSPENSION CEILING SYSTEM

CATEGORY	REQUIREMENTS
CONNECTIONS/ HANGERS	(NOTE: USE INTERMEDIATE DUTY GRID)
INTERSECTION STRENGTH	60 LBS
HANGERS	#12 @ 4'-0" OC
PLUMB	NOT MORE THAN 1 IN 6
PERIMETER WIRES	NOT REQUIRED W/ MIN. 7/8" WALL ANGLE
MOLDING/ PARTITIONS	(NOTE: USE INTERMEDIATE DUTY GRID)
MOLDING ATTACHMENT	MIN 7/8"
CLEARANCE (FREE TO MOVE)	3/8" @ 2 ADJACENT WALLS, TIGHT @ 2 ADJACENT WALLS
SPACER BARS	REQUIRED (UNLESS SEISMIC CLIPS ARE UTILIZED)
PARTITION ATTACHMENT	ALLOWED ONLY IF CEILING IS ABLE TO MOVE LATERALLY
LIGHTING/ FIXTURES	(NOTE: USE INTERMEDIATE DUTY GRID)
LIGHTS	SUSPEND FROM STRUCTURE, NOT GRID
MECHANICAL	SUSPEND FROM STRUCTURE, NOT GRID

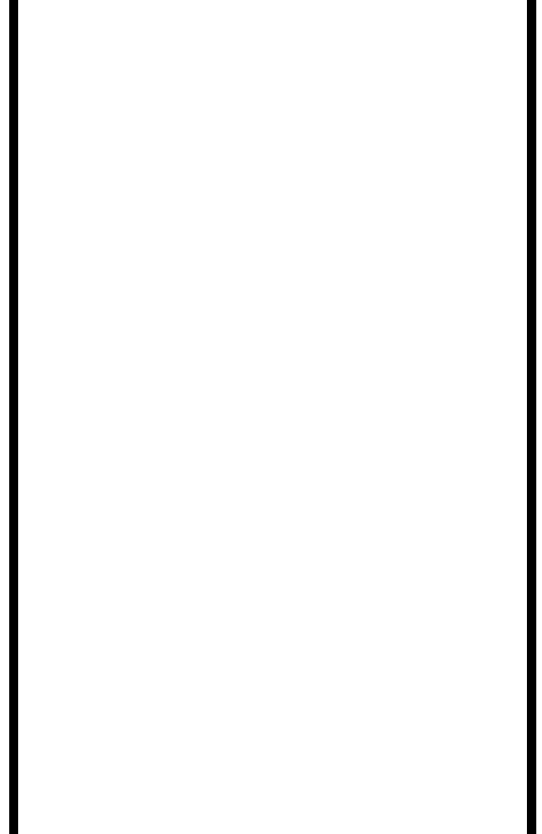
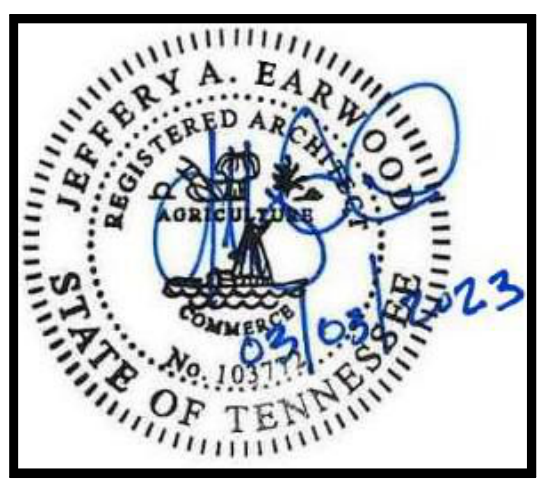
NOTE: INSTALLATION TO BE COMPLIANT WITH 2018 IBC, SEISMIC CATEGORY 'C' COORD W/ CEILING GRID MANUFACTURER

7 SEISMIC GENERAL NOTES



8 DETAIL - GYPSUM BOARD ACCESS DOOR

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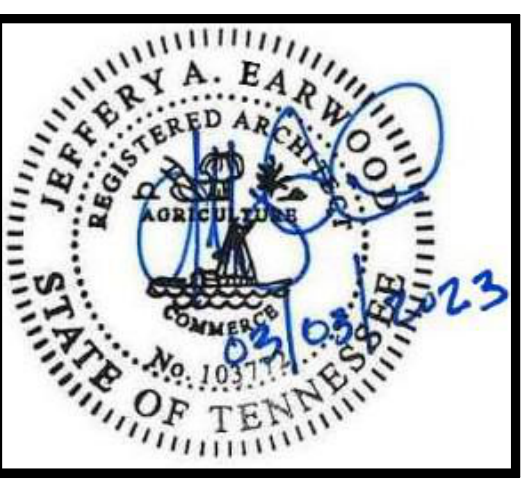


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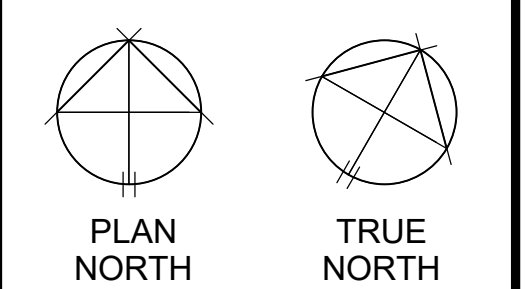
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CEILING DETAILS	

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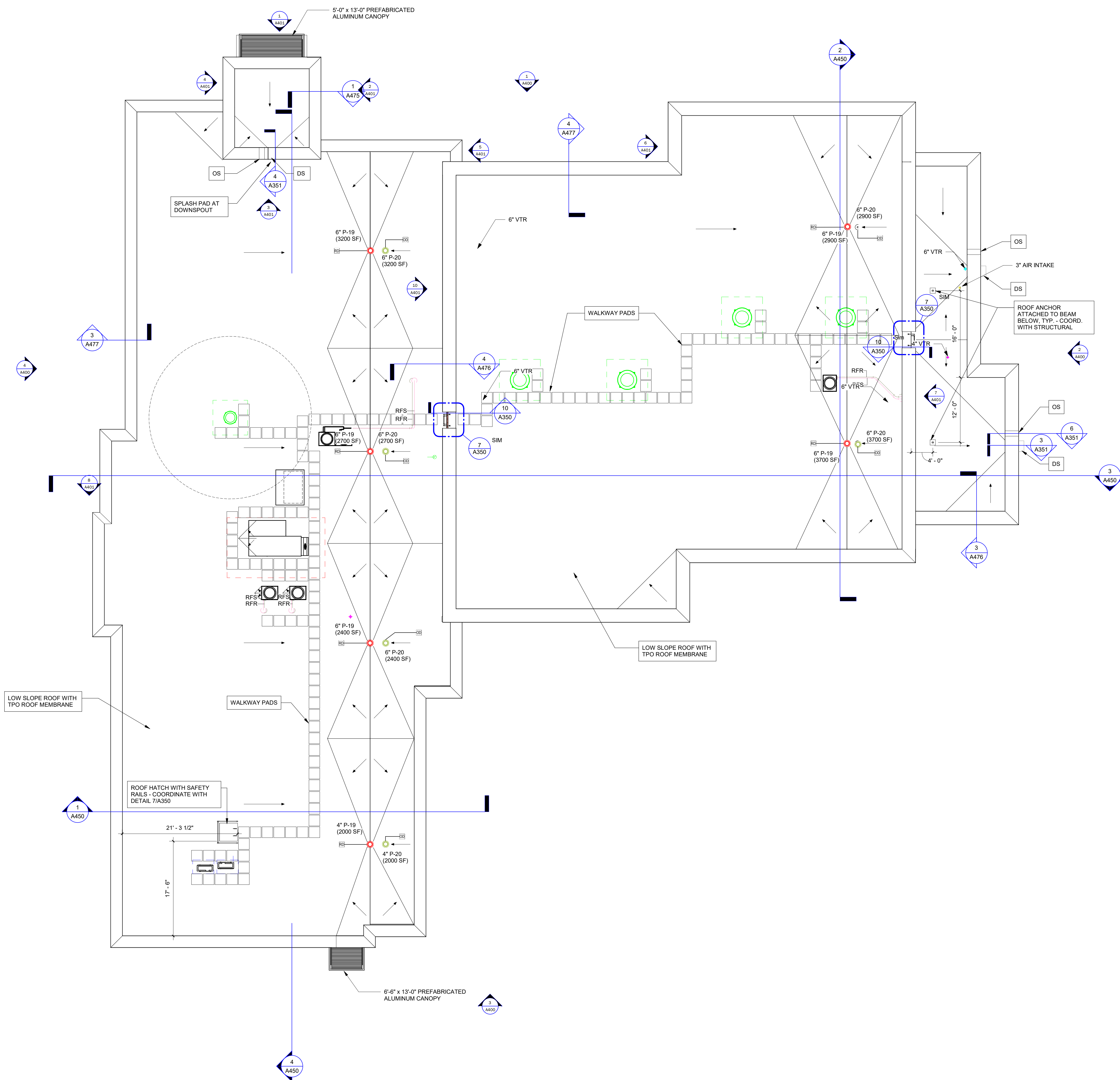


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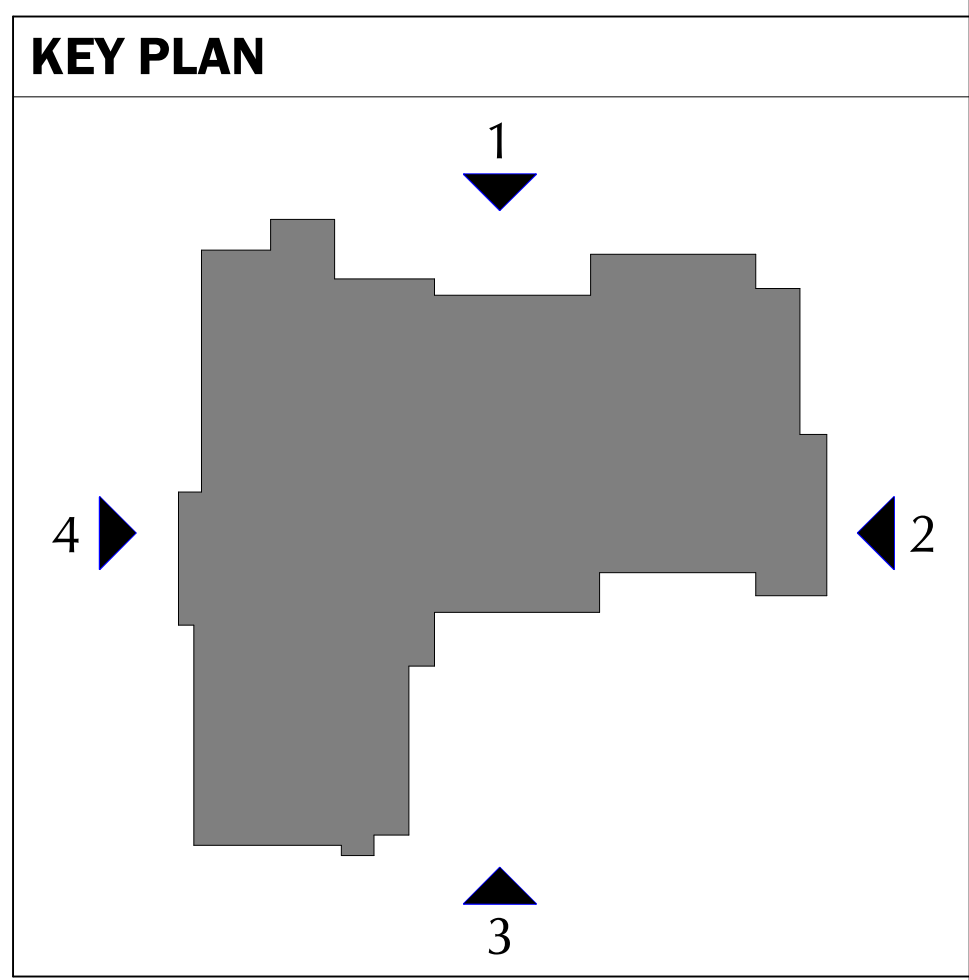
DR. BY	SH
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DATE	03/03/23
OVERALL ROOF PLAN	

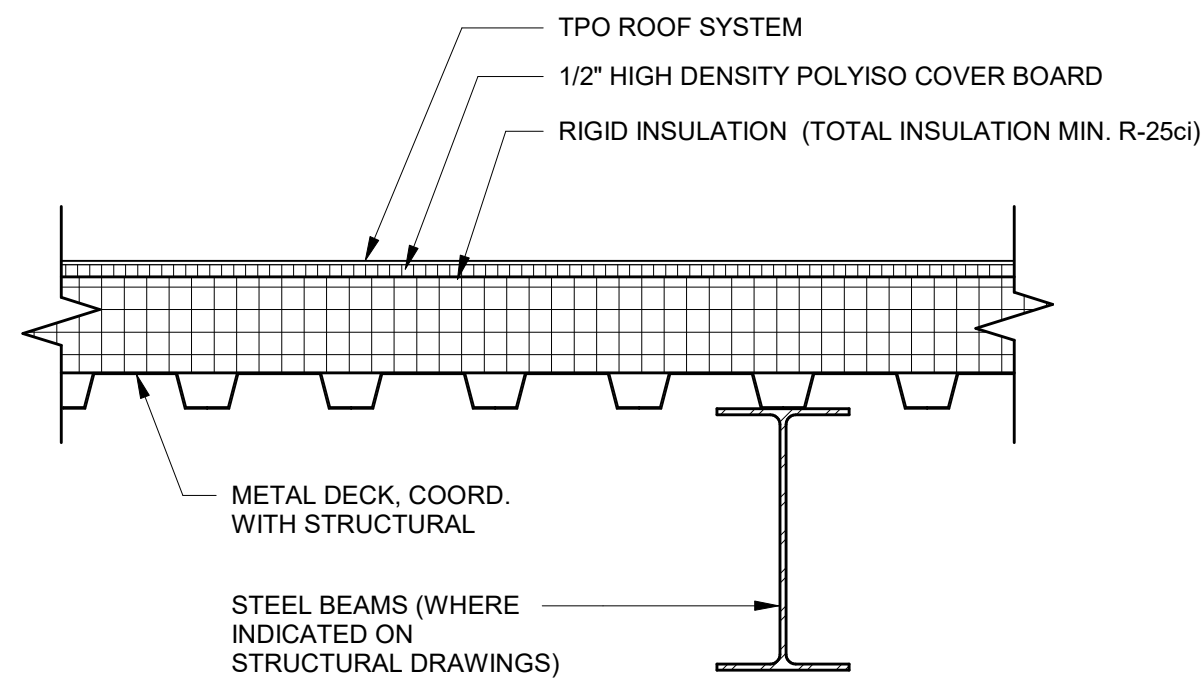
ROOF PLAN GENERAL NOTES

- *"RD" DENOTES ROOF DRAIN. COORDINATE WITH A350.
- *"OD" DENOTES ROOF OVERFLOW DRAIN. COORDINATE WITH A350.
- *"DS" DENOTES SCUPPER, CONDUCTOR HEAD, AND DOWNSPOUT. COORDINATE WITH A350.
- *"OS" DENOTES OVERFLOW SCUPPER. COORDINATE WITH A350.
- MINIMUM ROOF SLOPE SHALL BE 1/4" PER FOOT.
- PROVIDE CRICKETS WITH 1/2" PER FOOT MINIMUM, WHERE REQUIRED FOR PROPER DRAINAGE.
- ALL INSIDE AND OUTSIDE CORNERS OF COPINGS AND FASCIAS SHALL BE PRE-FABRICATED.
- NO VTR OR PIPE PENETRATIONS SHALL BE LOCATED WITHIN 3'-0" OF ANY VALLEY OR CURB FLASHING.
- ALL ROOF AREAS TO BE WHITE FULLY-ADHERED THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING SYSTEM ON COVERBOARD ON POLYISOCYANURATE INSULATION ON METAL DECK UNLESS NOTED OTHERWISE.
- COORDINATE ROOF ASSEMBLY WITH 1/A350 UNLESS NOTED OTHERWISE.
- WALKWAY PADS TO BE PROVIDED FROM ACCESS LADDER THROUGHOUT ROOF AS NECESSARY FOR ALL ROOFTOP EQUIPMENT.
- ENSURE ALL ROOFTOP EQUIPMENT (SERVICABLE UNITS) ARE LOCATED FARTHER THAN 10'-0" FROM INSIDE FACE OF ANY PARAPET LESS THAN 42" HIGHER THAN FINISHED ROOF. COORDINATE WITH MPE DRAWINGS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.



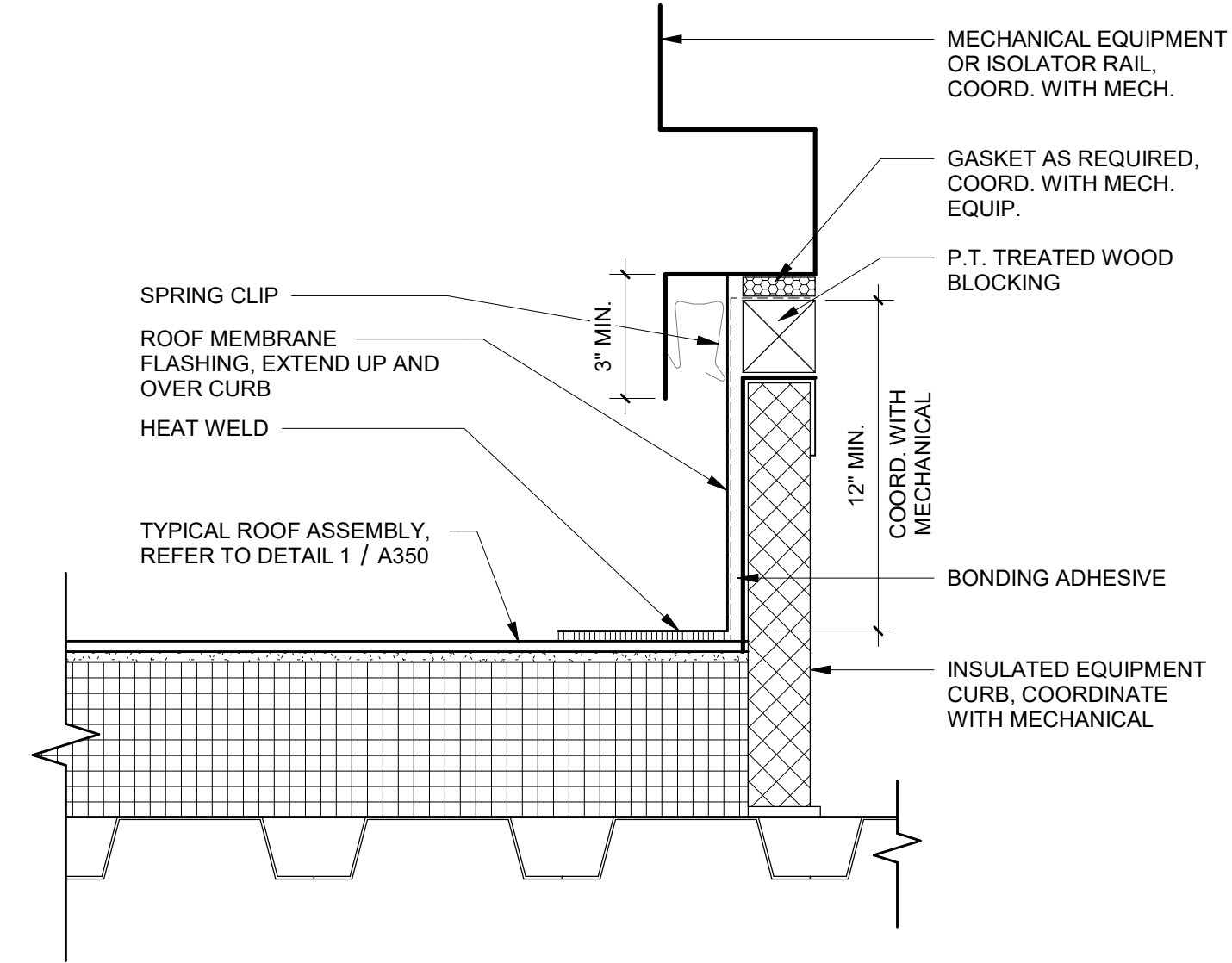
1 OVERALL ROOF PLAN





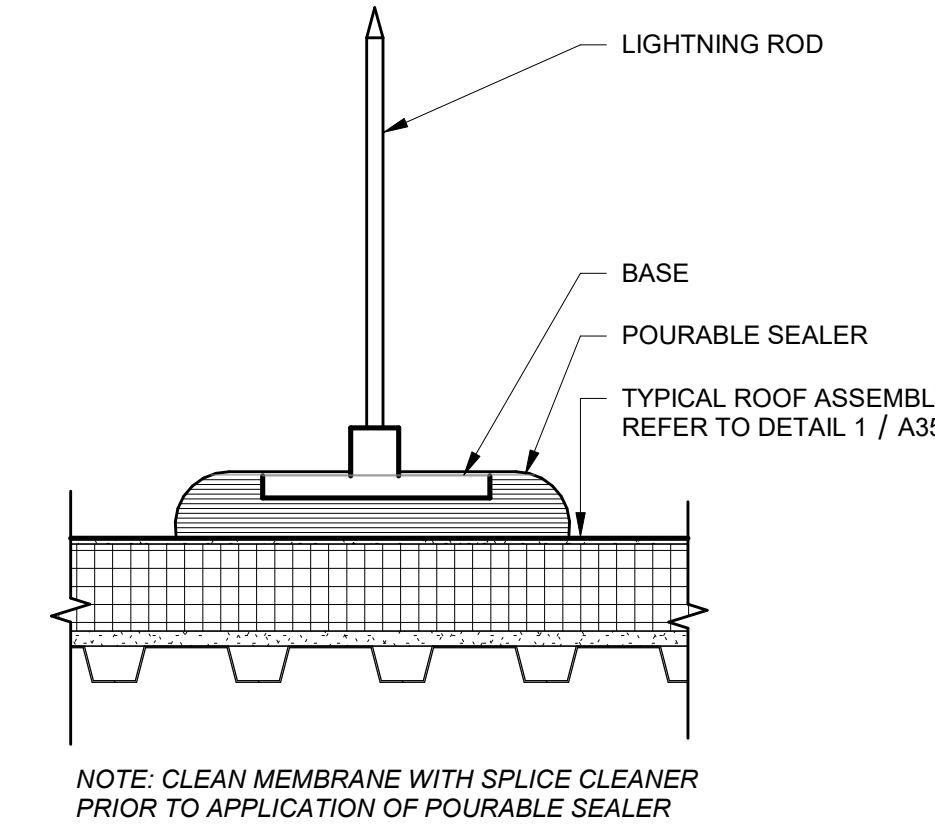
1 METAL DECK ROOF ASSEMBLY

0 6 12 24 INCHES



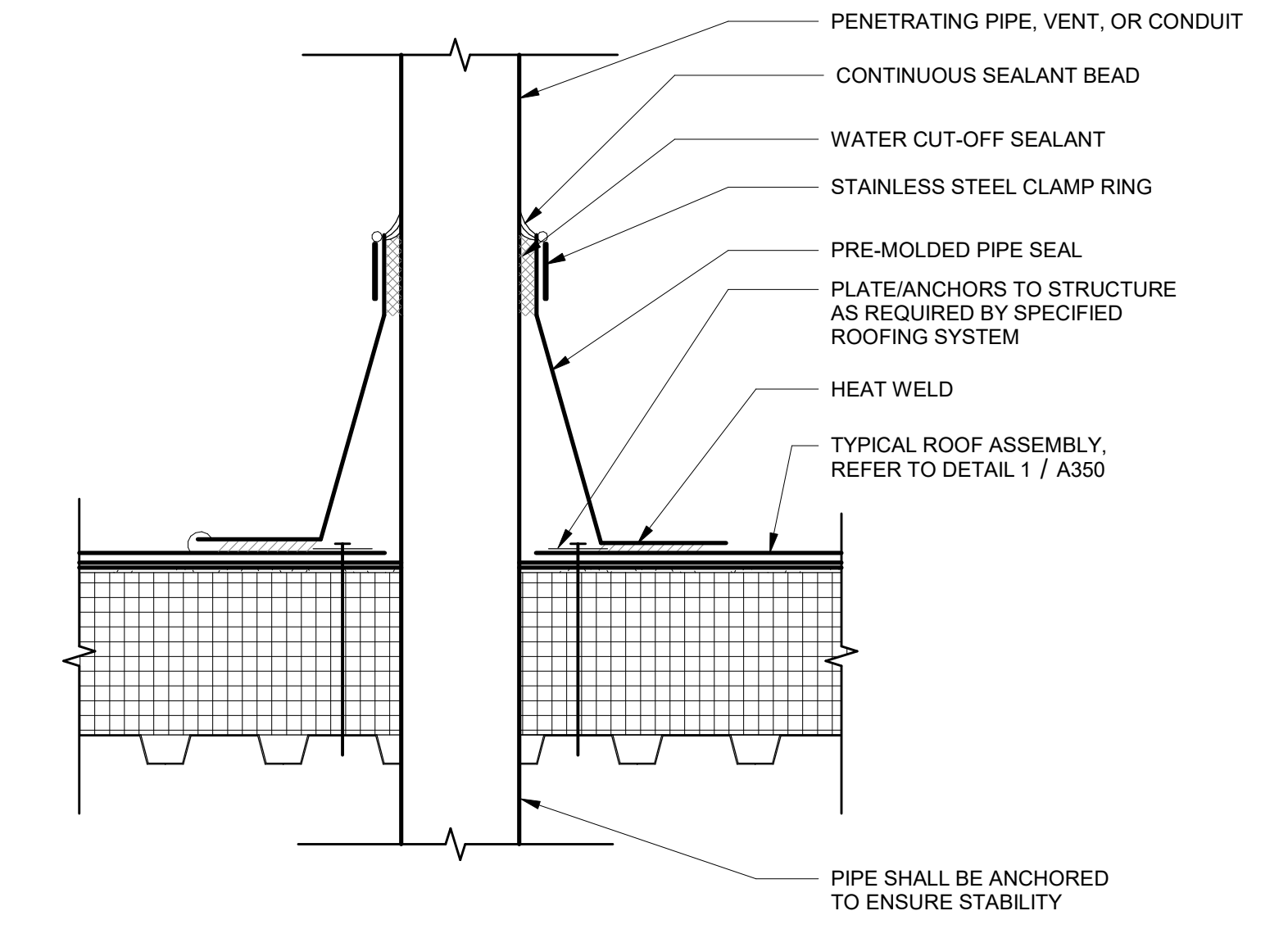
2 DETAIL - EQUIPMENT CURB

0 3 6 12 INCHES



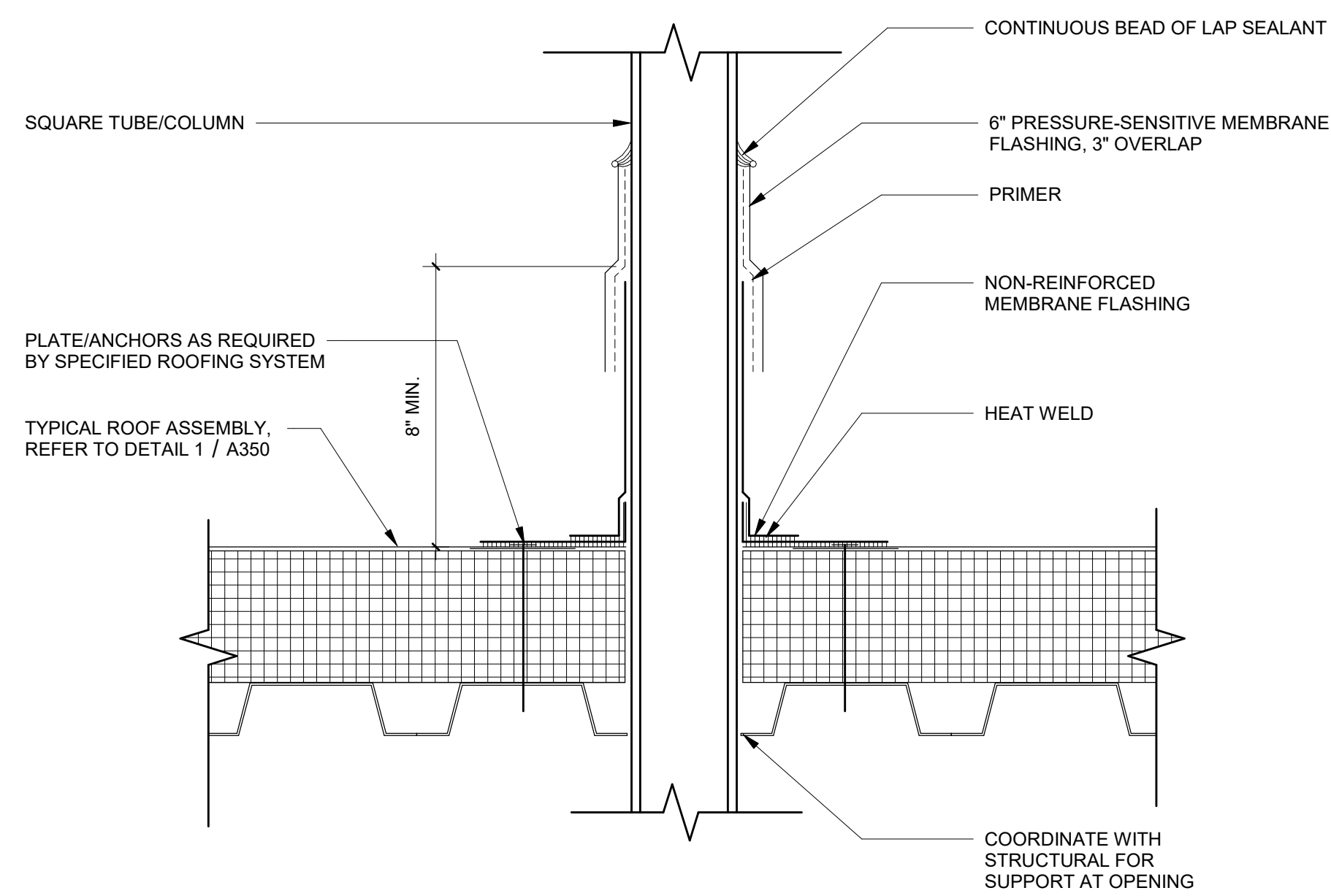
3 DETAIL - LIGHTNING PROTECTION

0 6 12 24 INCHES



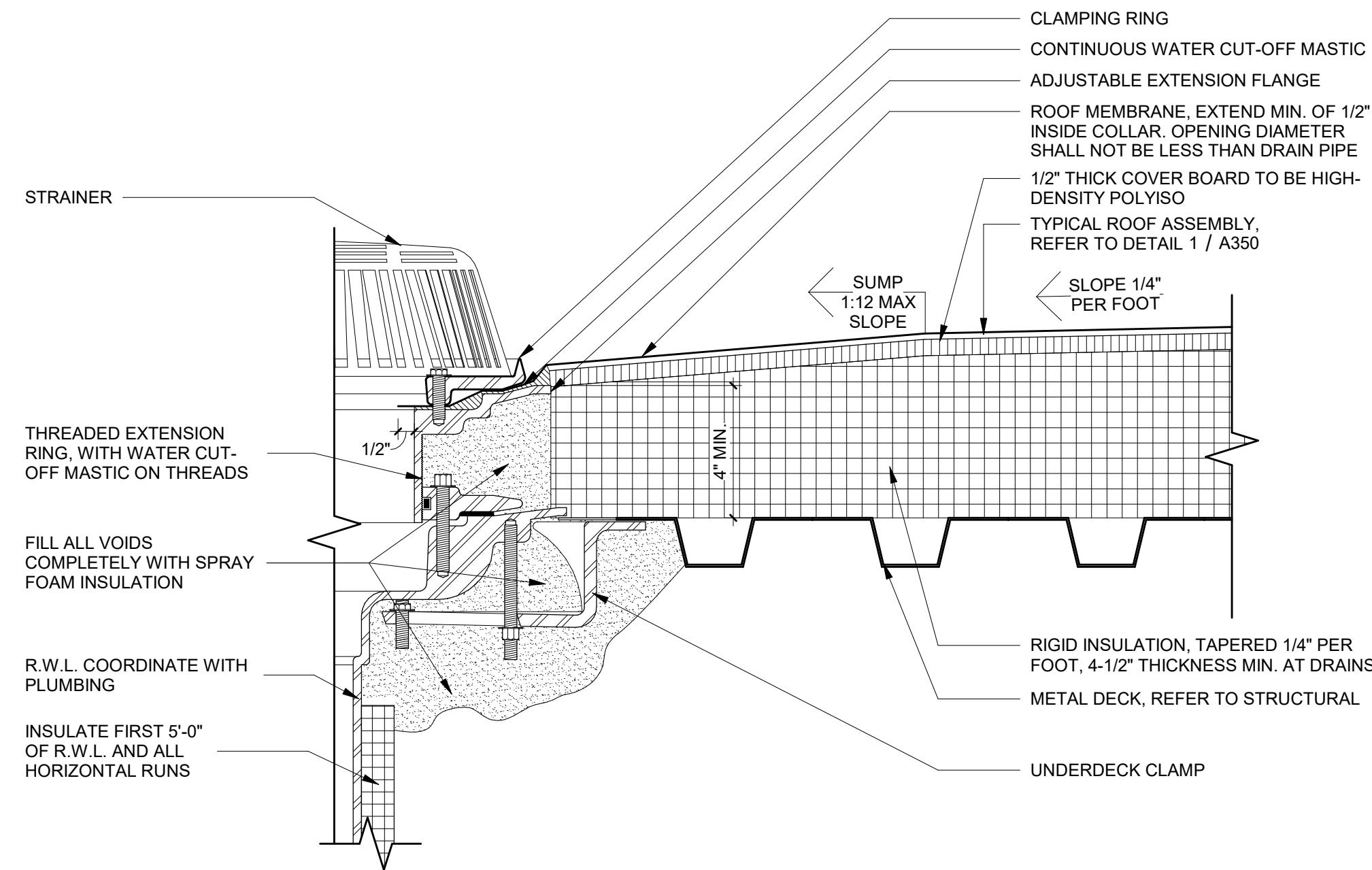
4 DETAIL - PRE-MOLDED PIPE PENETRATION

0 6 12 24 INCHES



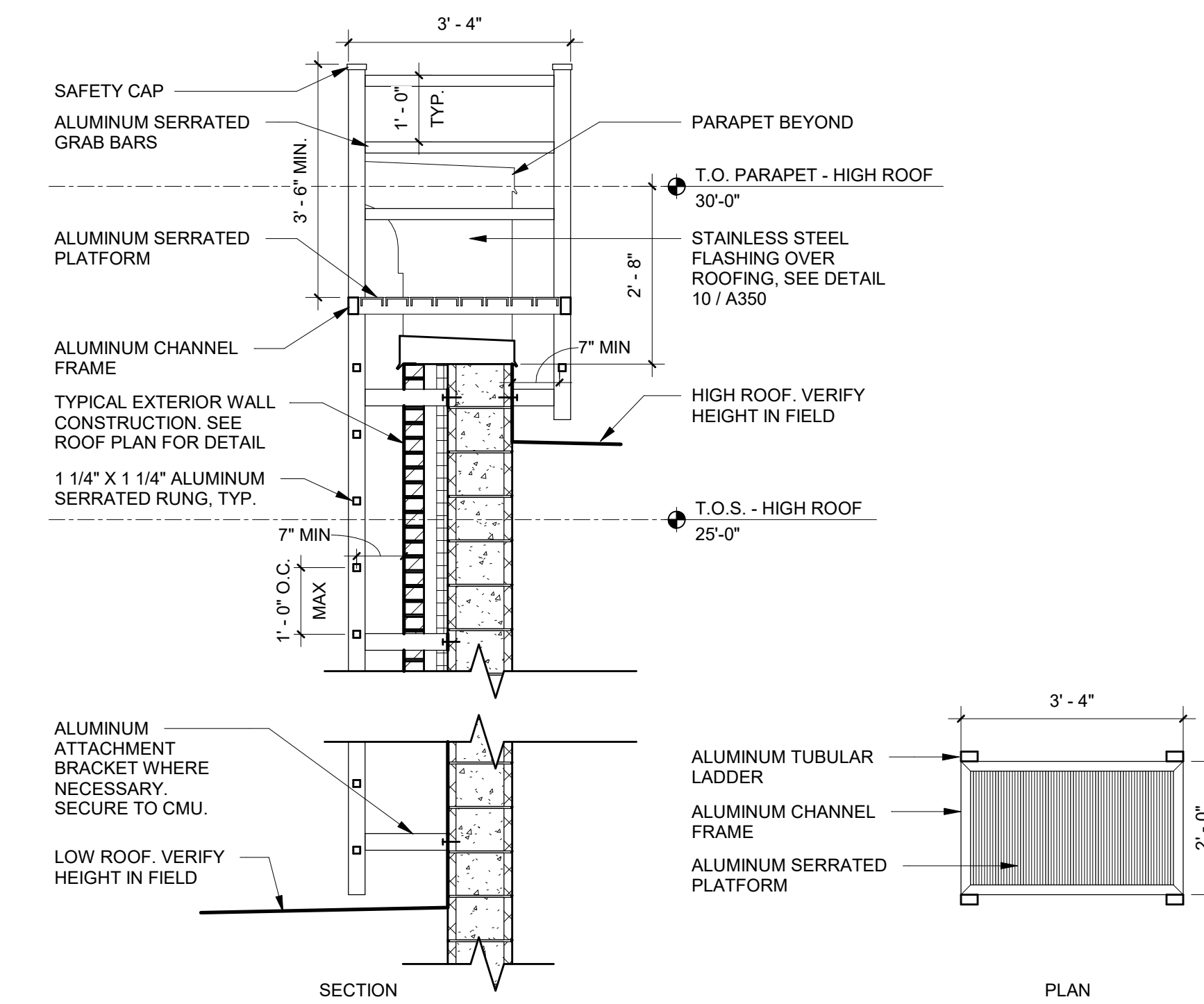
5 DETAIL - FIELD FABRICATED SQUARE PENETRATION

0 3 6 12 INCHES



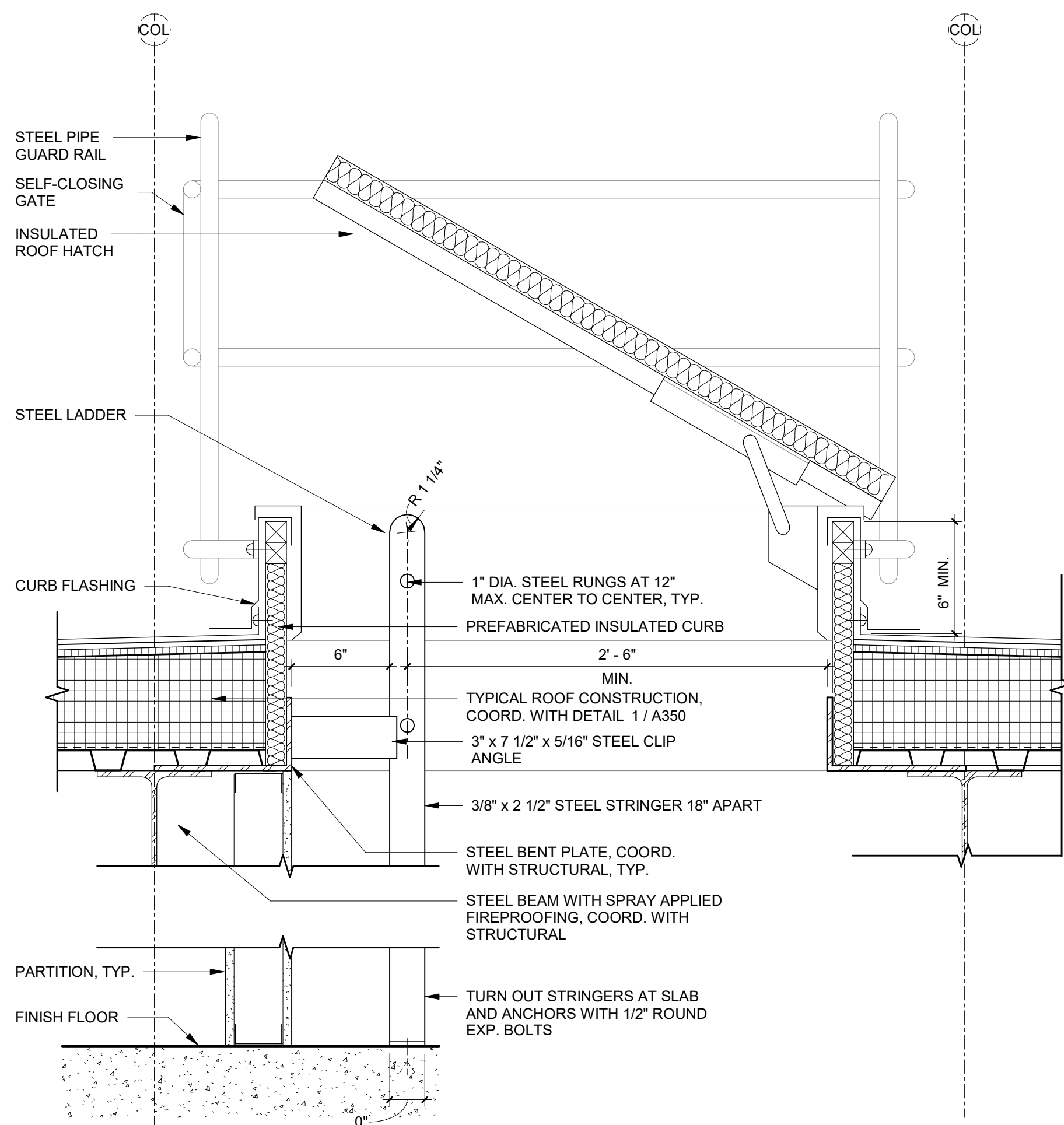
6 DETAIL - ROOF DRAIN

0 3 6 12 INCHES



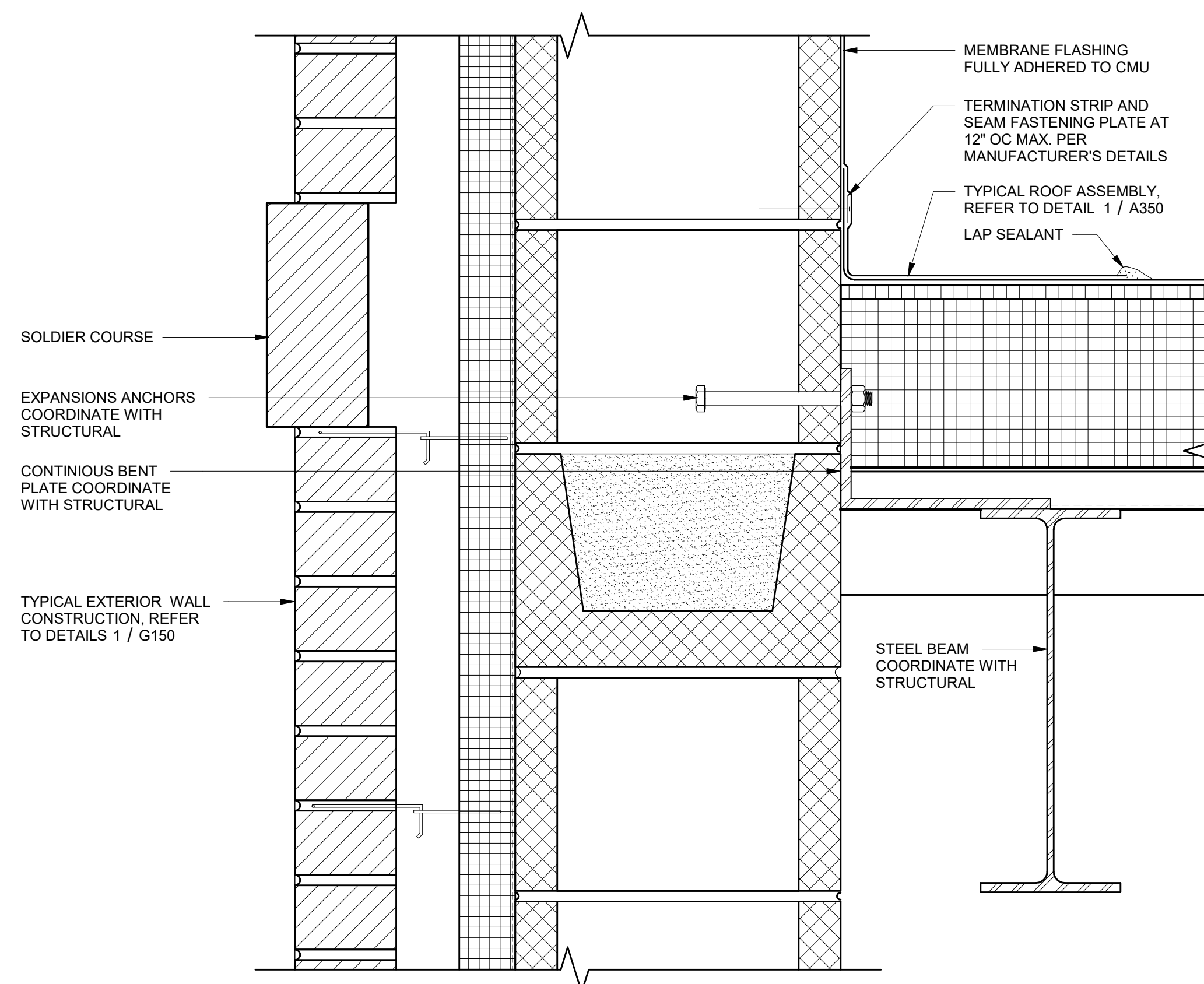
7 ROOF PARAPET LADDER

0 1 2 4 6 FEET



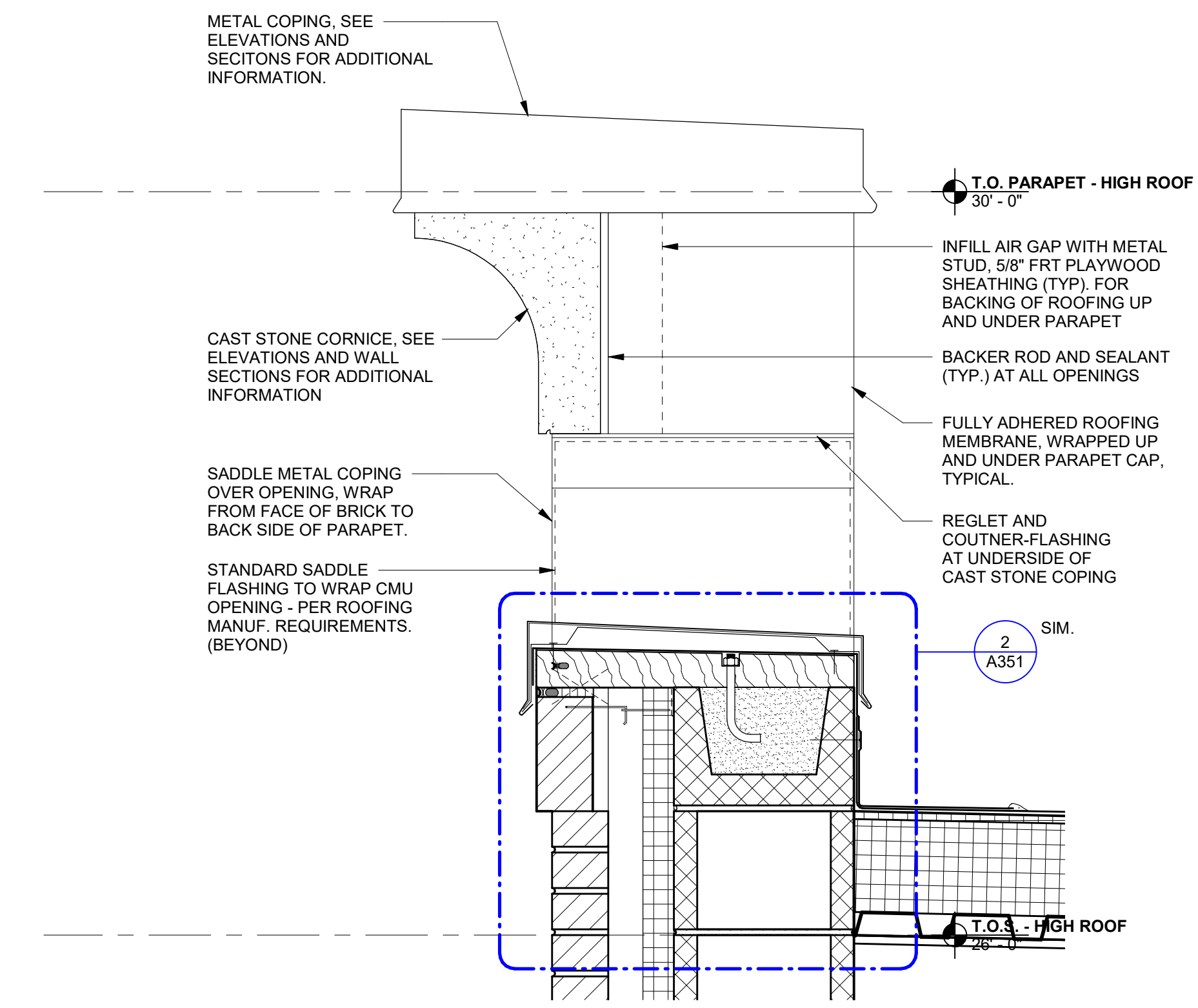
8 DETAIL - ROOF ACCESS HATCH AND LADDER

0 6 12 24 INCHES



9 DETAIL - ROOF AT CMU, TYP

0 3 6 12 INCHES



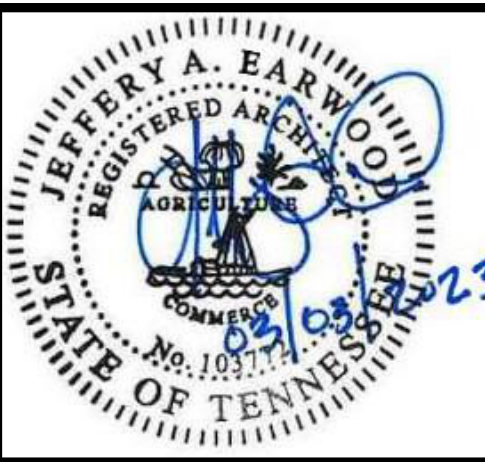
10 FLASHING AT LADDERS

0 6 12 24 INCHES



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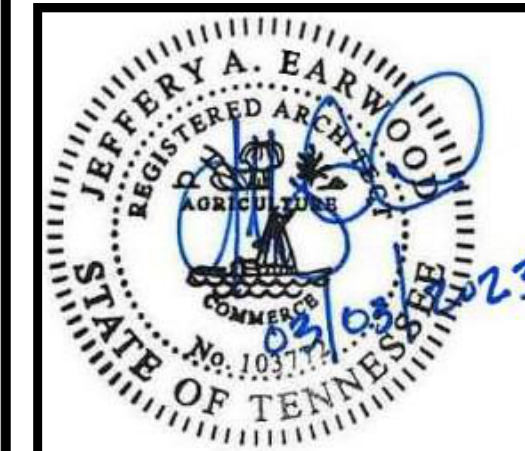
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PROJ. NO. A01122
DATE 03/03/23

ROOF DETAILS

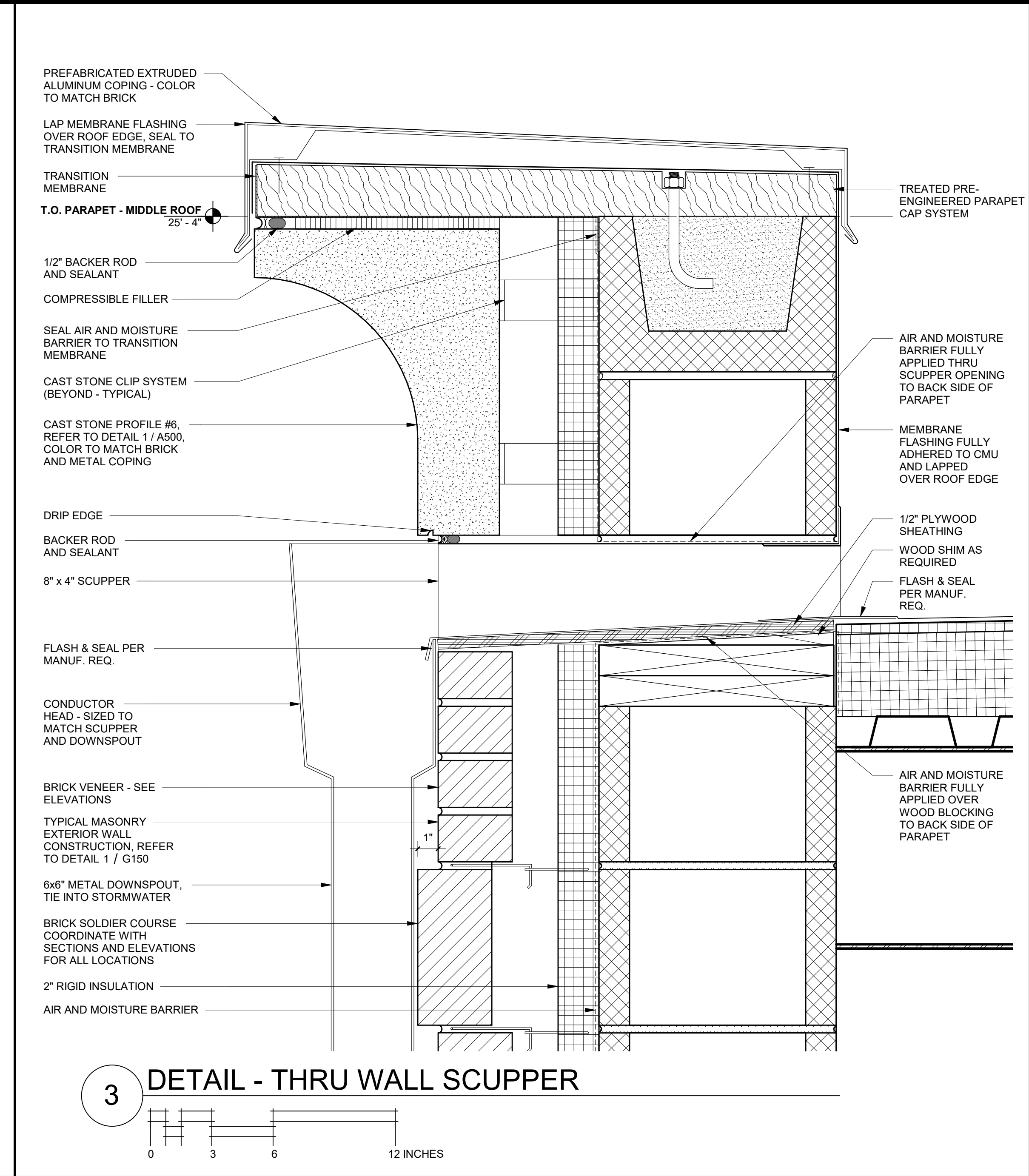
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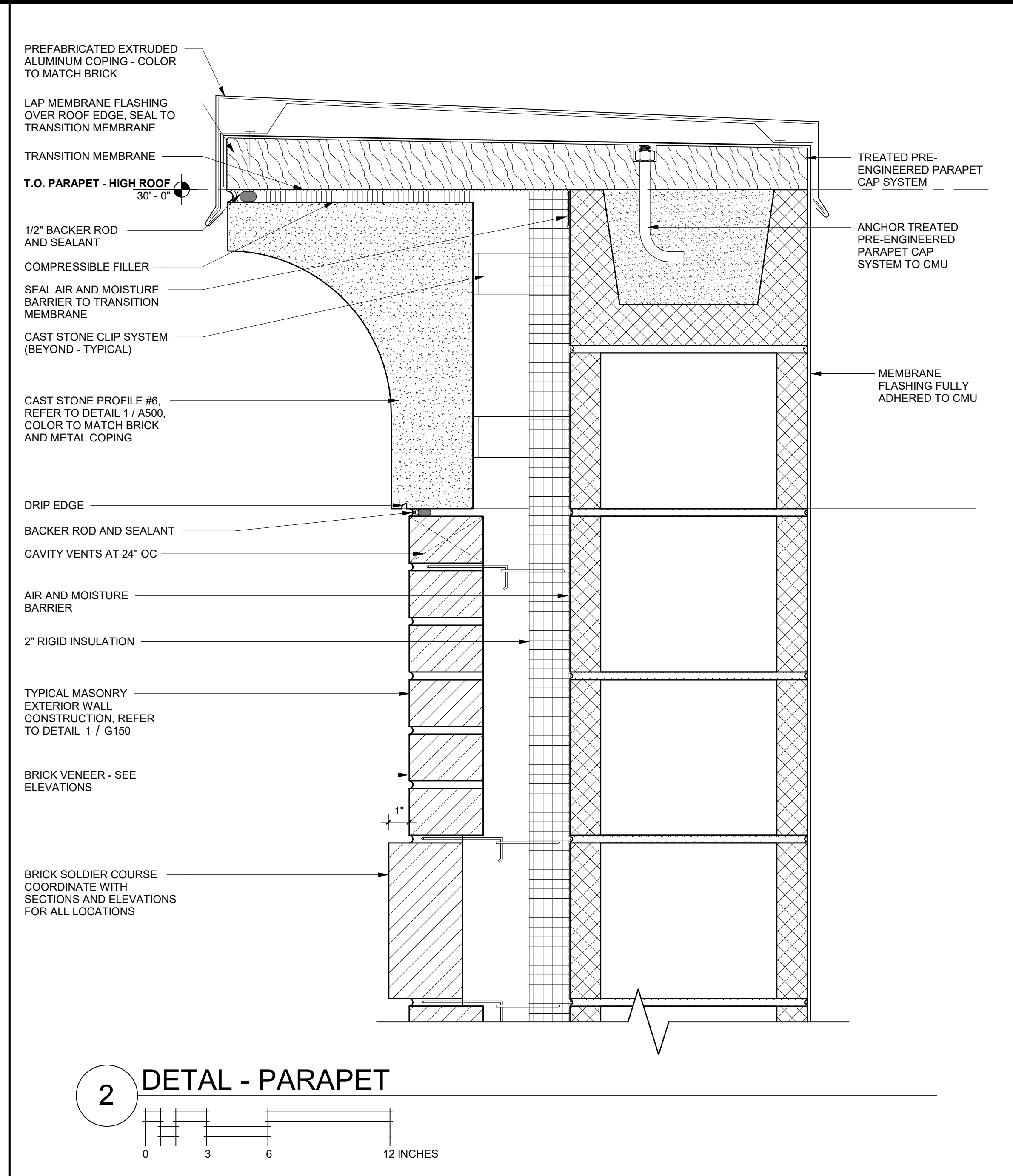
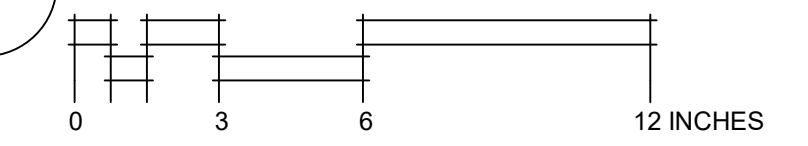
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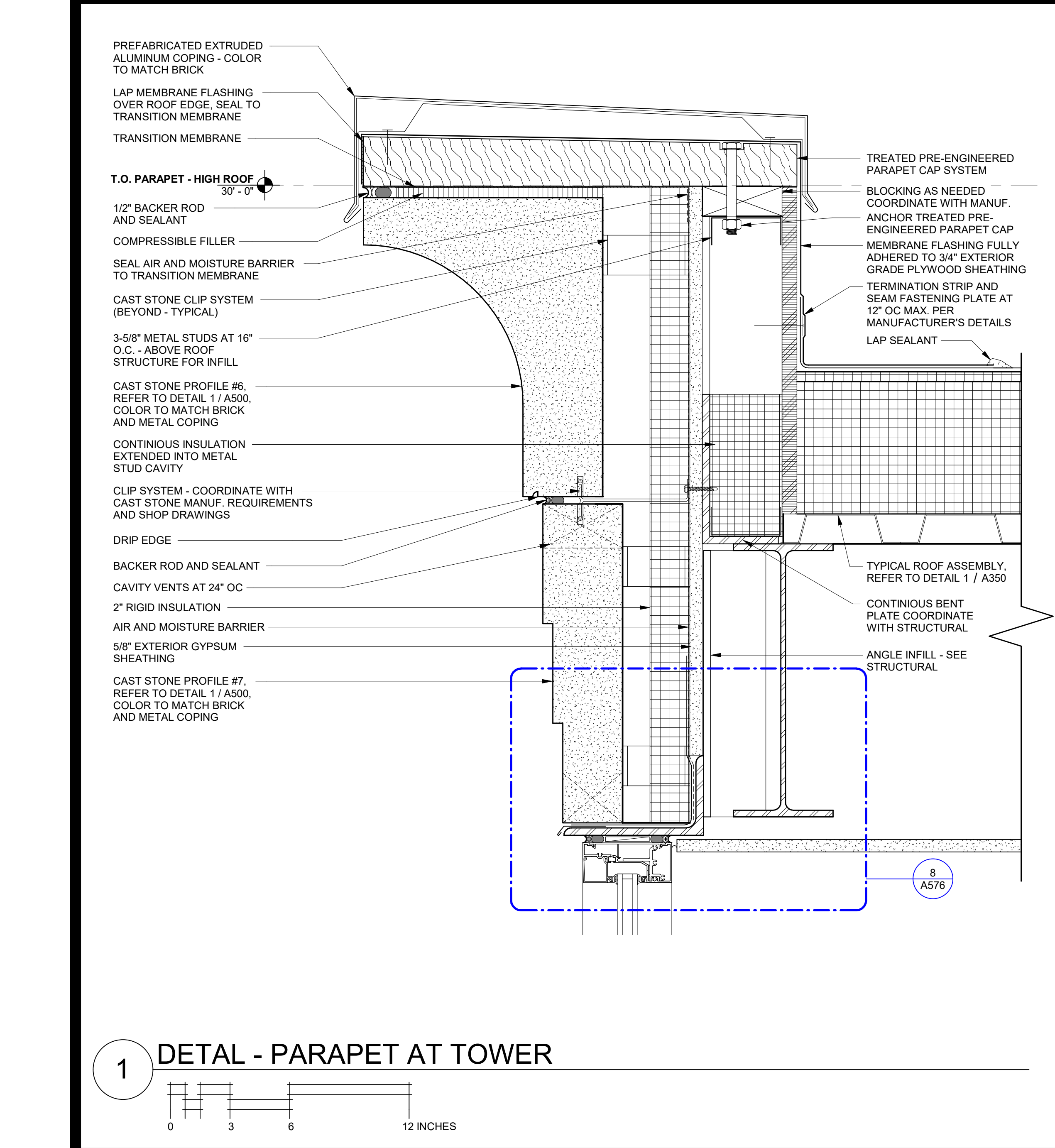
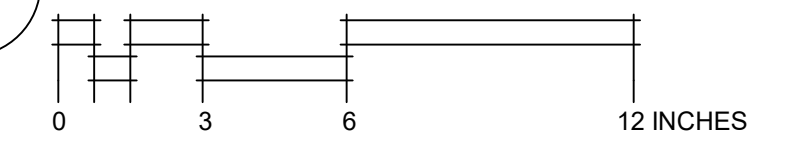
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ROOF DETAILS



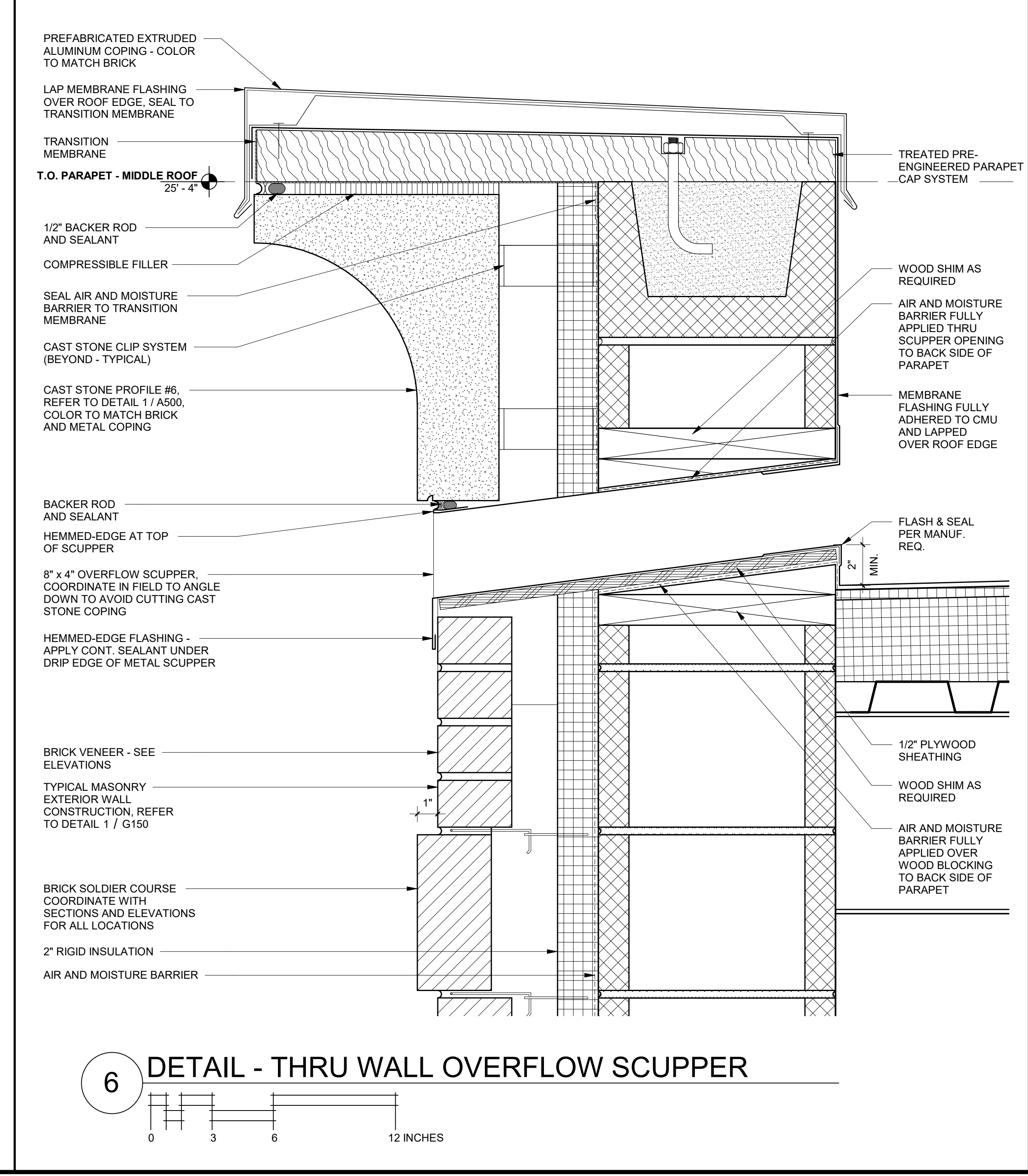
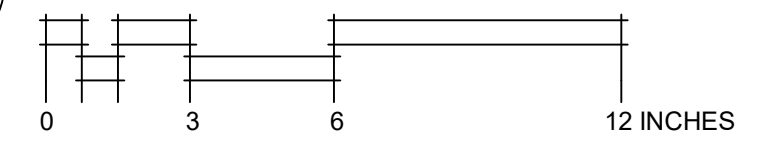
3 DETAIL - THRU WALL SCUPPER



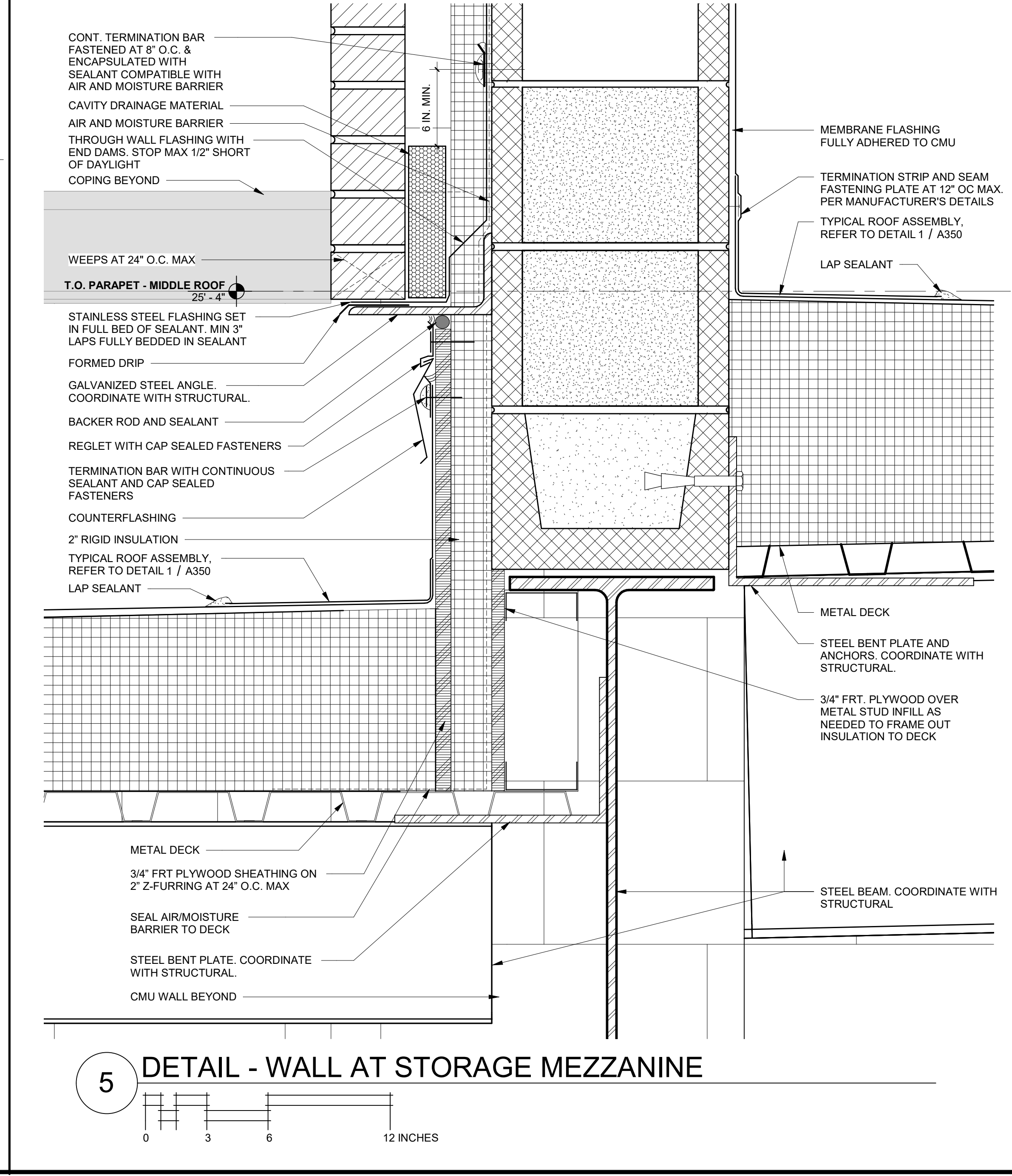
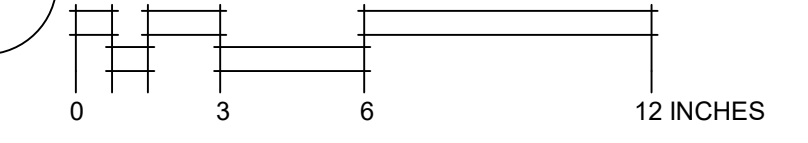
2 DETAIL - PARAPET



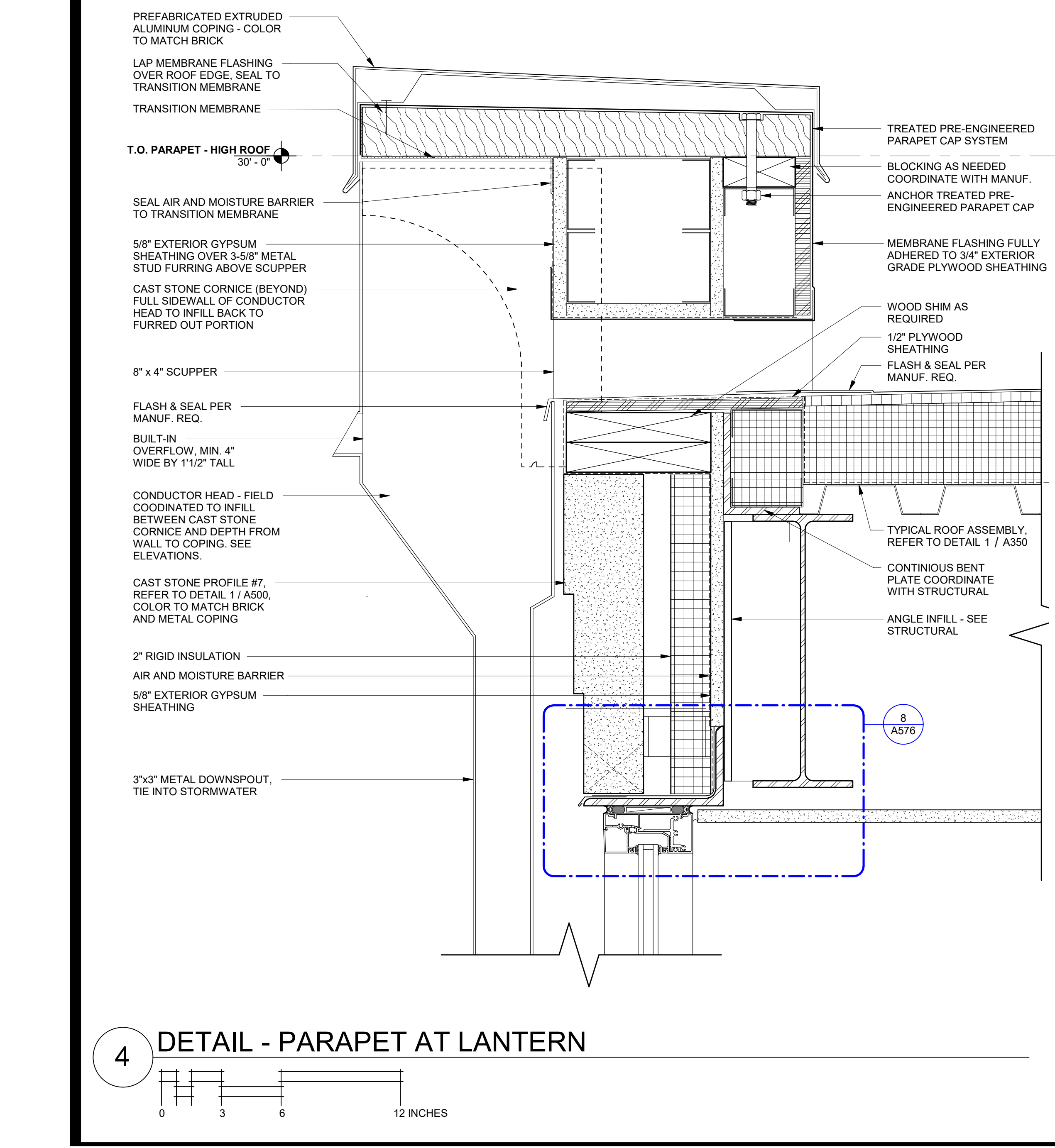
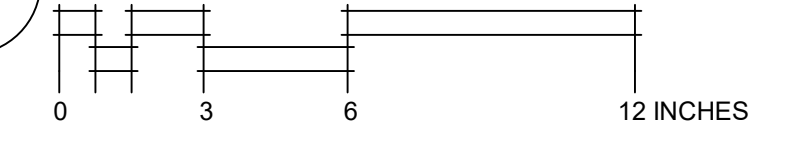
1 DETAIL - PARAPET AT TOWER



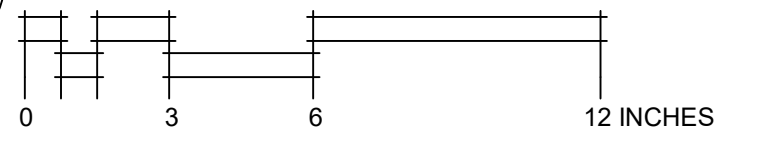
6 DETAIL - THRU WALL OVERFLOW SCUPPER



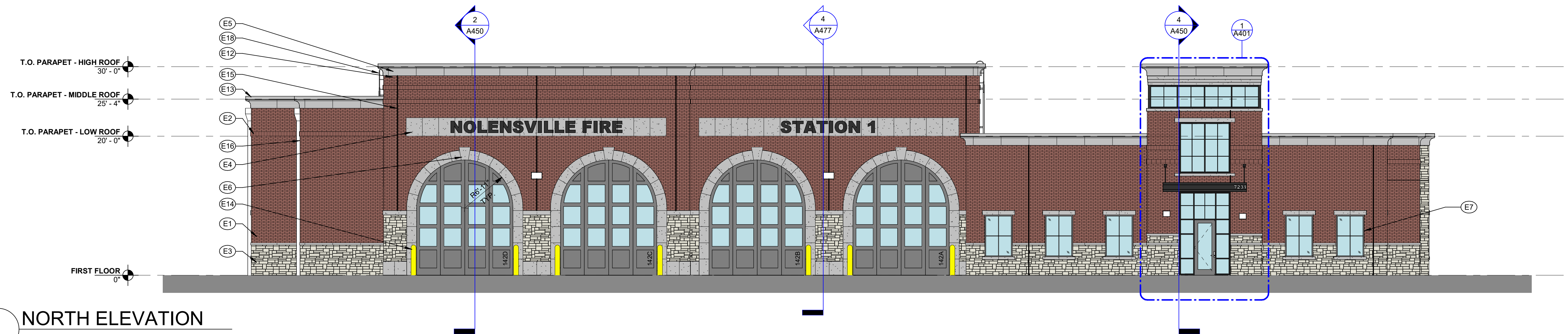
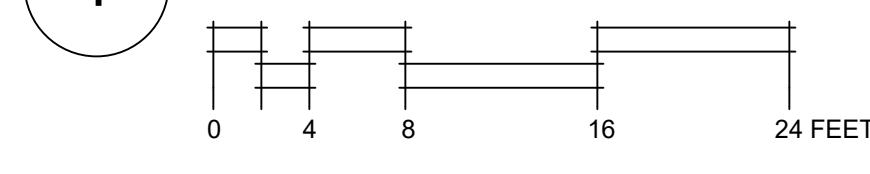
5 DETAIL - WALL AT STORAGE MEZZANINE



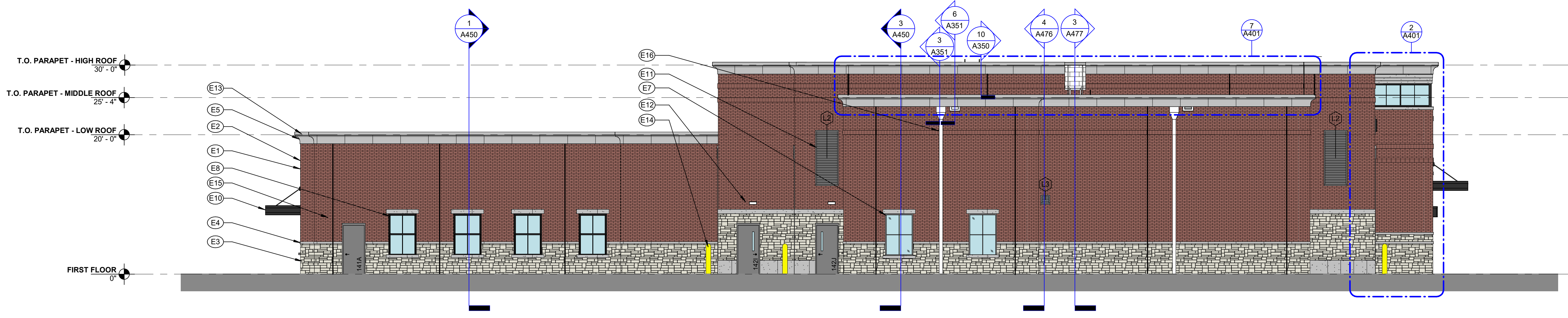
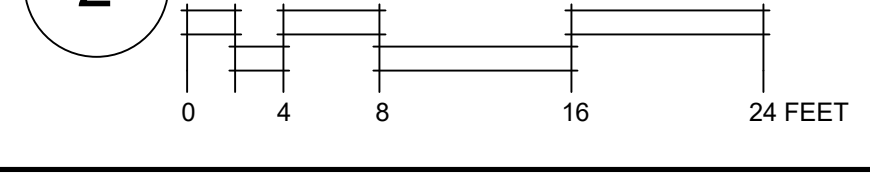
4 DETAIL - PARAPET AT LANTERN



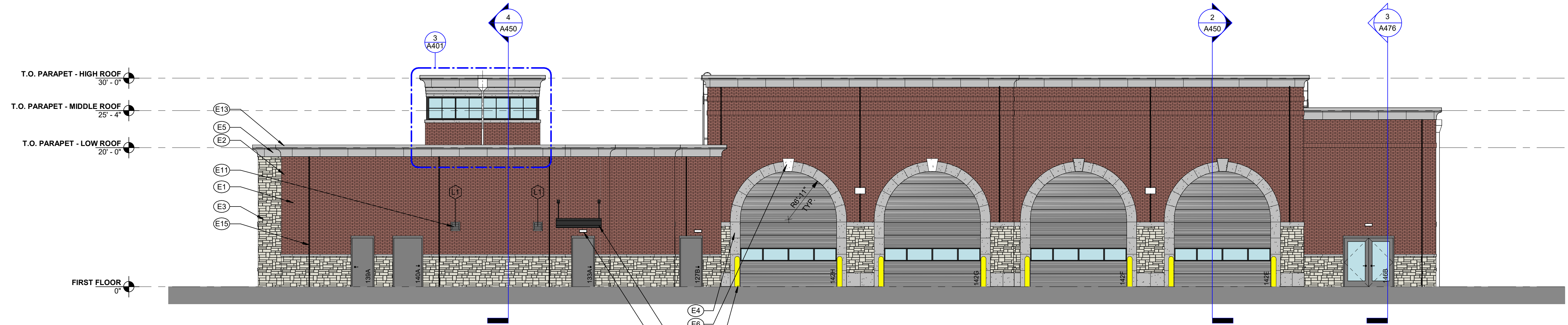
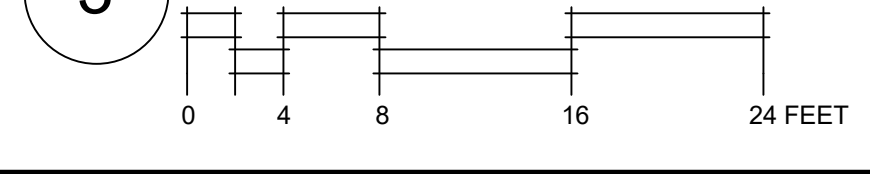
1 NORTH ELEVATION



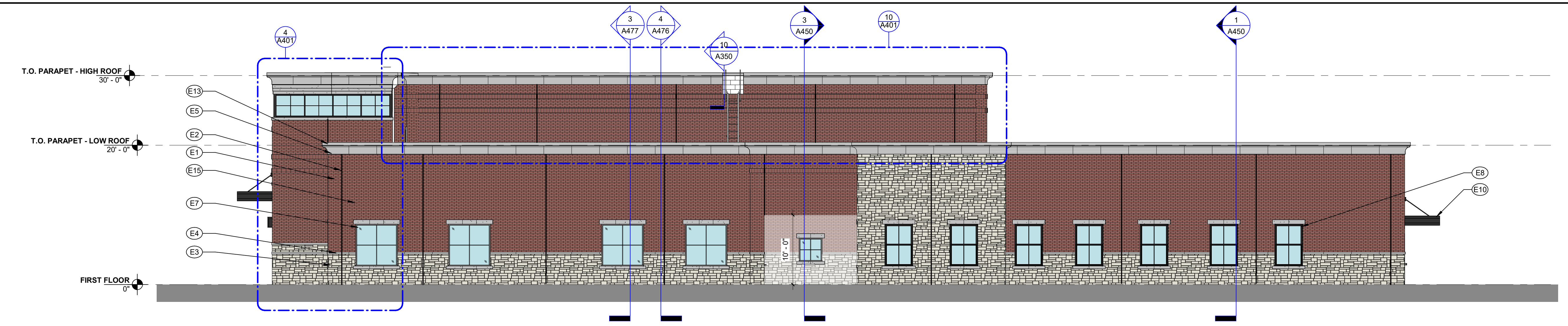
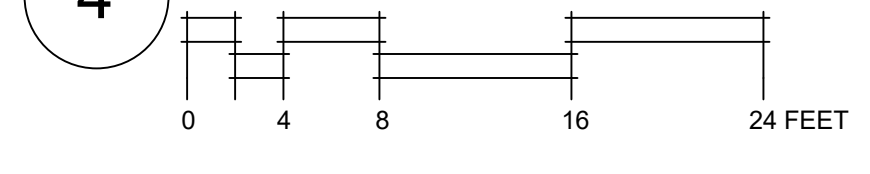
2 EAST ELEVATION



3 SOUTH ELEVATION



4 WEST ELEVATION



KEYNOTES - EXTERIOR

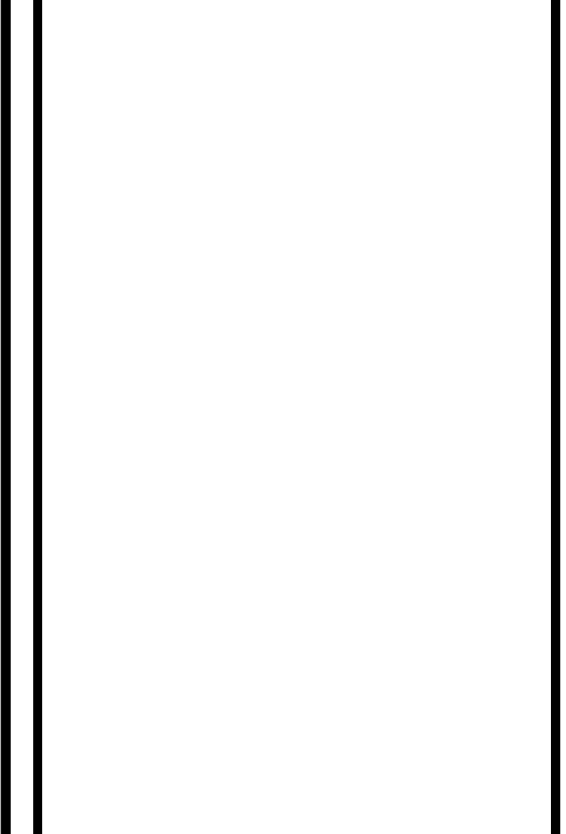
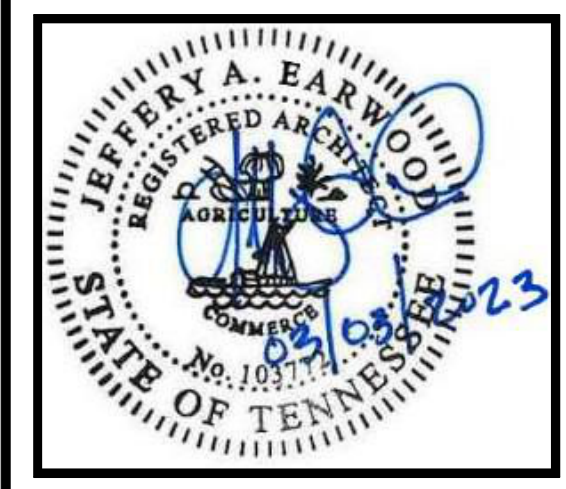
E1	BRICK 1 - GLEN-GERY RAVENNA - MODULAR SIZE - ONE-HALF BOND
E2	BRICK 1 - SOLDIER COURSE
E3	CALCIUM SILICATE MANUFACTURED BUILDING STONE 1 - ARRIS-CRAFT INTERNATIONAL ROCKED MAGNOLIA
E4	CAST STONE
E5	CAST STONE CORNICE
E6	CAST STONE KEYSTONE, PROFILE 5
E7	FIBERGLASS-FRAMED FIXED WINDOW
E8	FIBERGLASS-FRAMED SINGLE-HUNG WINDOW
E9	ALUMINUM STOREFRONT
E10	EXTRUDED ALUMINUM CANOPY WITH INTEGRAL DRAINAGE
E11	LOUVER - COORDINATE WITH MECHANICAL
E12	EXTERIOR LIGHTS, COORDINATE WITH ELECTRICAL
E13	PREFABRICATED EXTRUDED ALUMINUM COPING
E14	PIPE BOLLARD, COORDINATE WITH CIVIL
E15	MASONRY EXPANSION JOINT
E16	SCUPPER AND DOWNSPOUT
E17	ROOF MEMBRANE
E18	ROOF LADDER
E19	ALUMINUM STOREFRONT MUNTIN (CENTERED IN BOTH DIRECTIONS)

EXTERIOR ELEVATION GENERAL NOTES

- MASONRY EXPANSION JOINTS TYPICAL AT INSIDE CORNERS.

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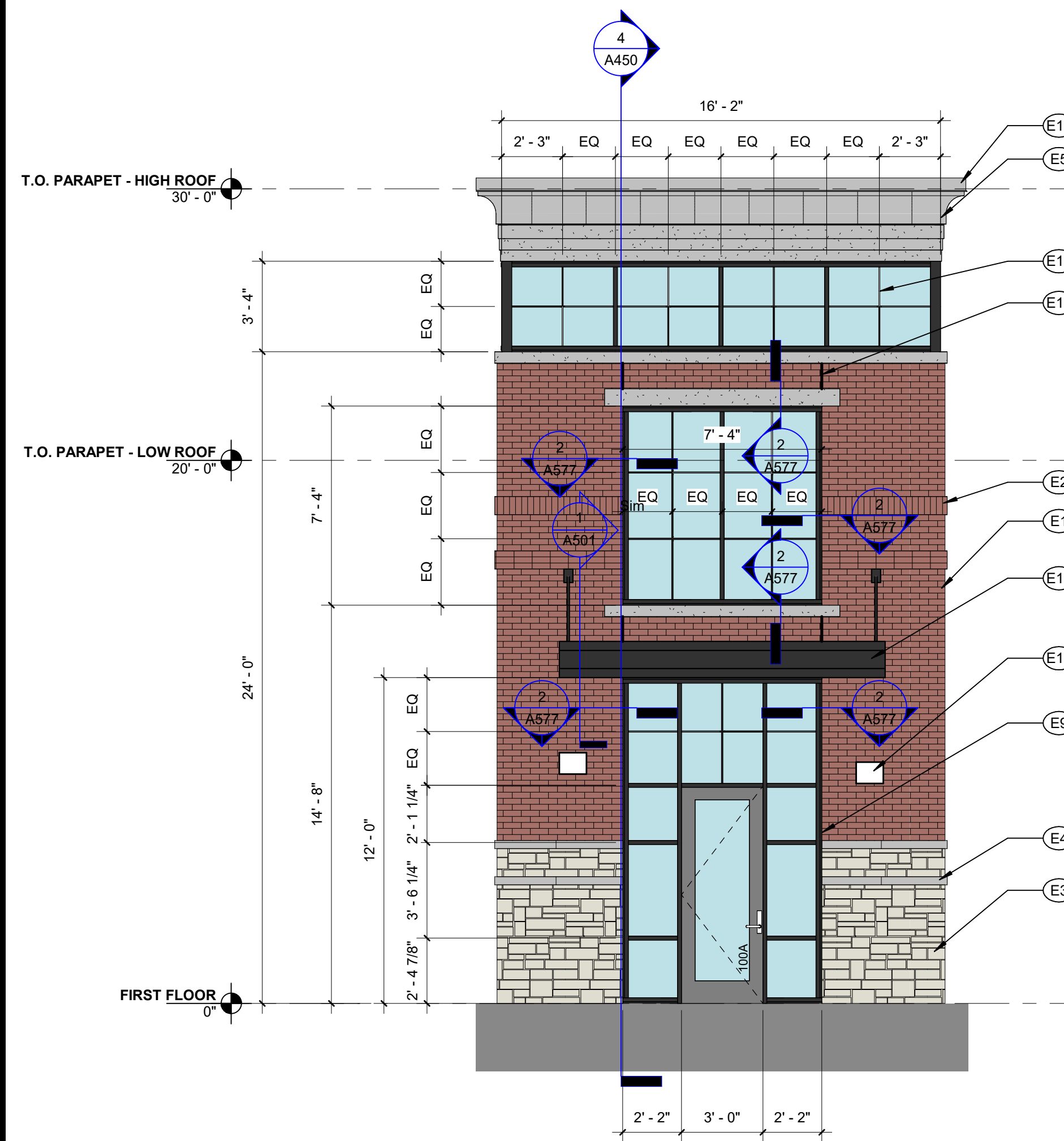


**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

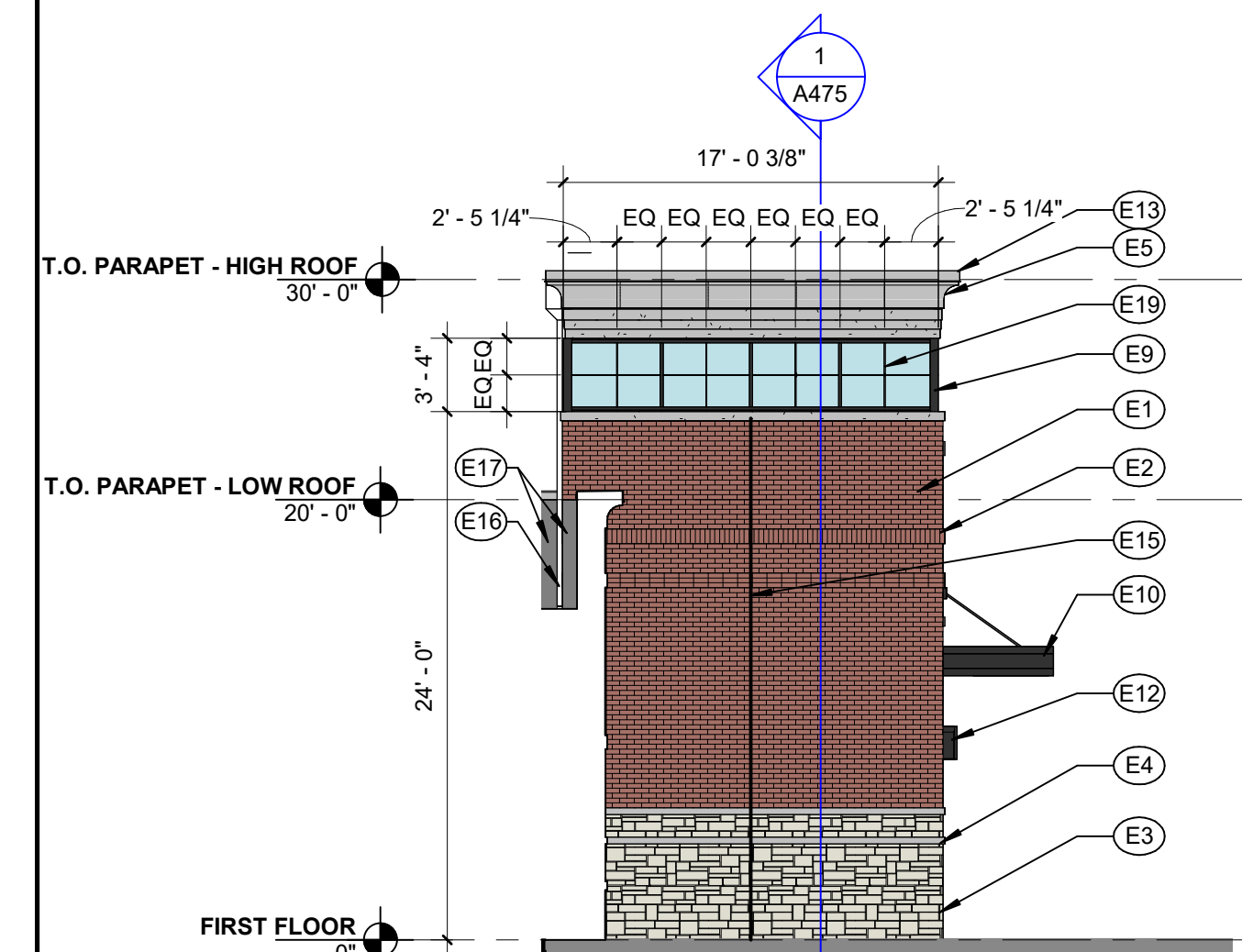
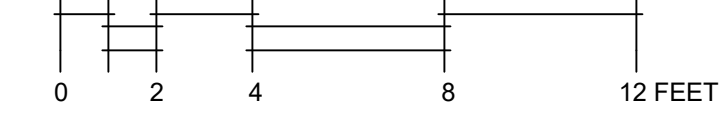
REVISIONS

DR. BY	SH
CK. BY	JE, LS
PROJ. NO.	A01122
DATE	03/03/23
EXTERIOR ELEVATIONS	

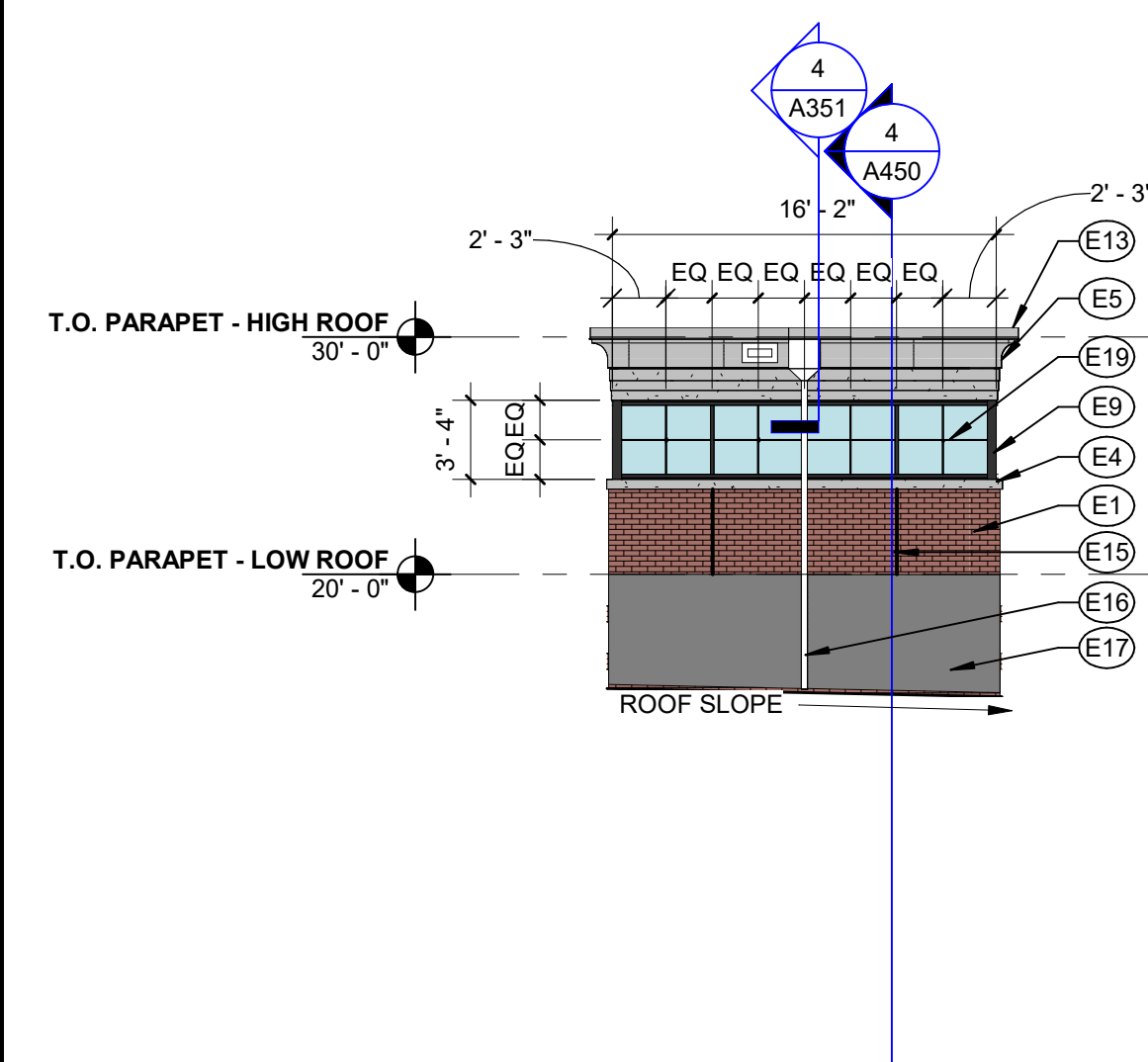
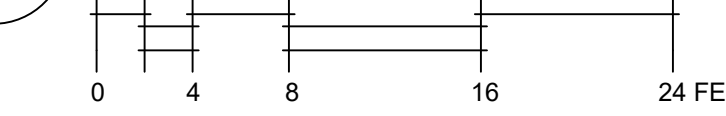
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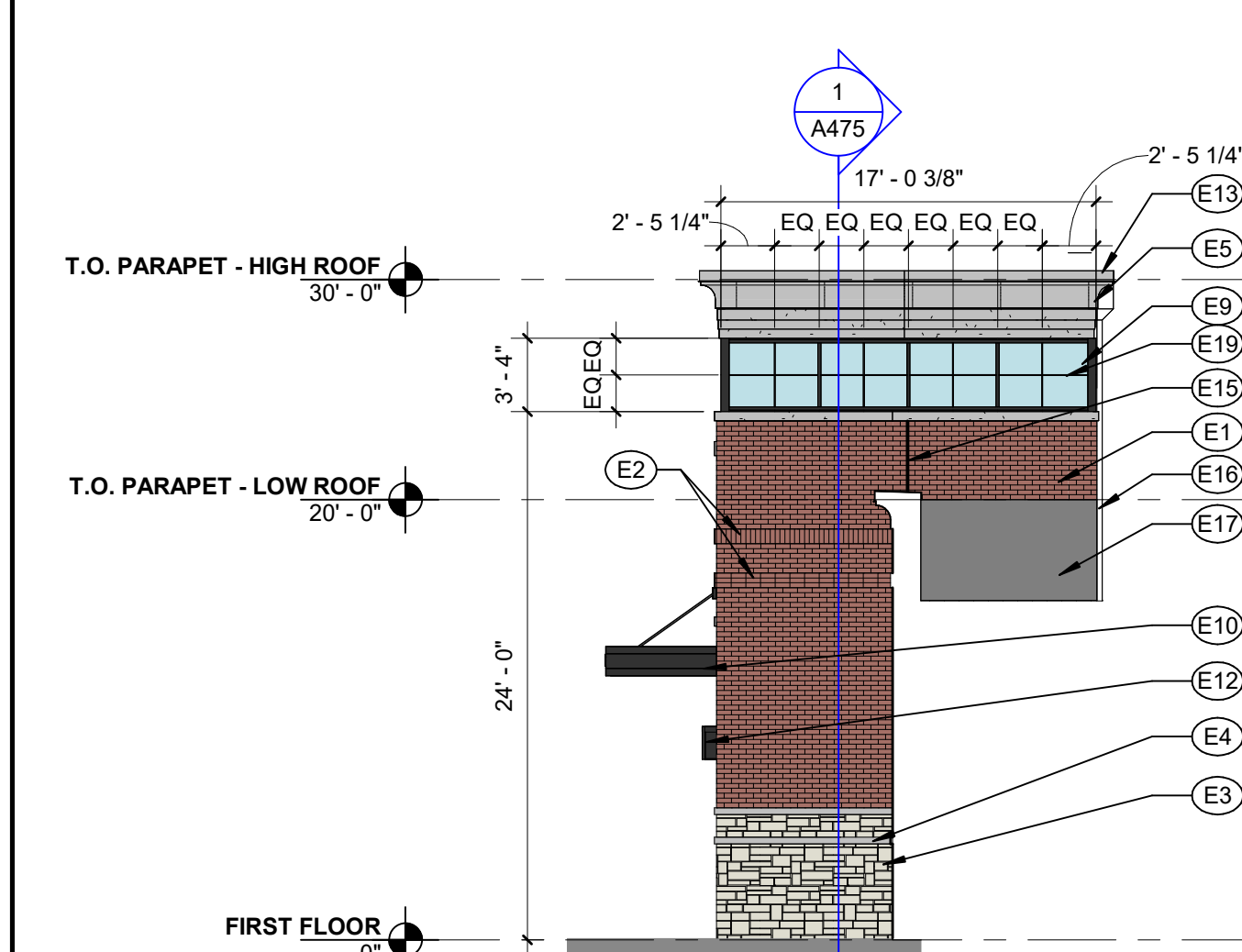
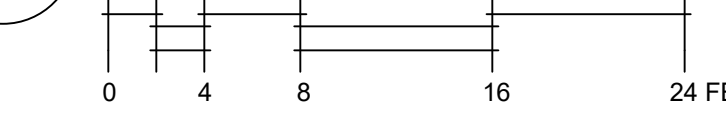
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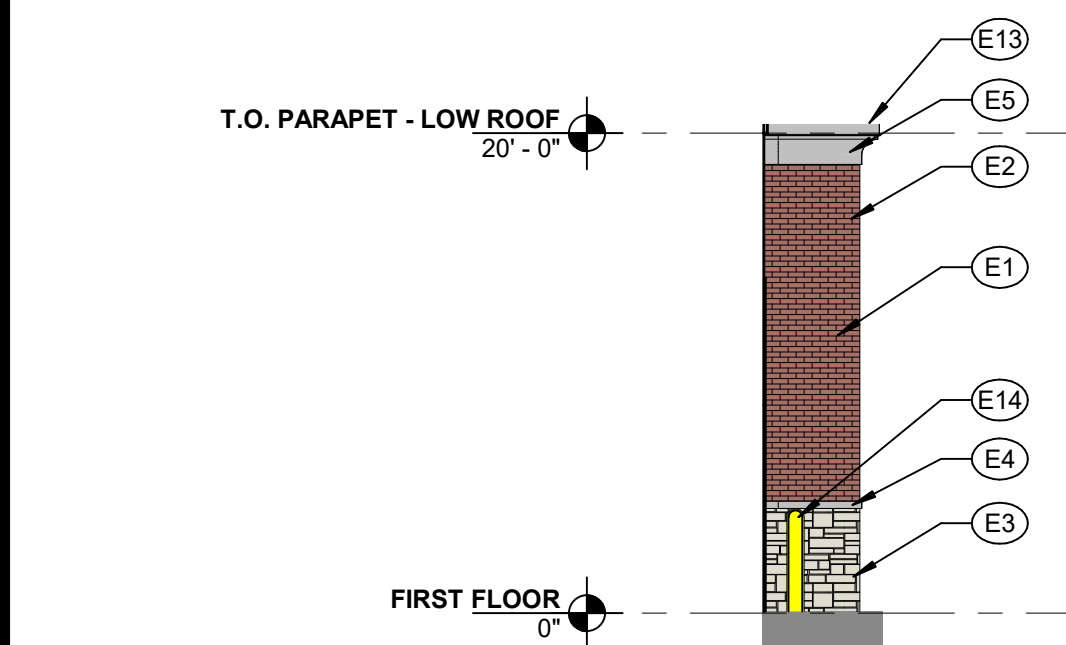
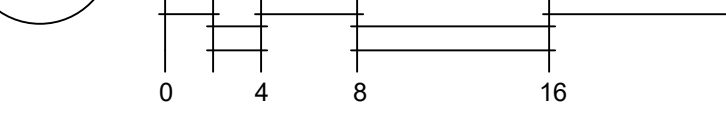
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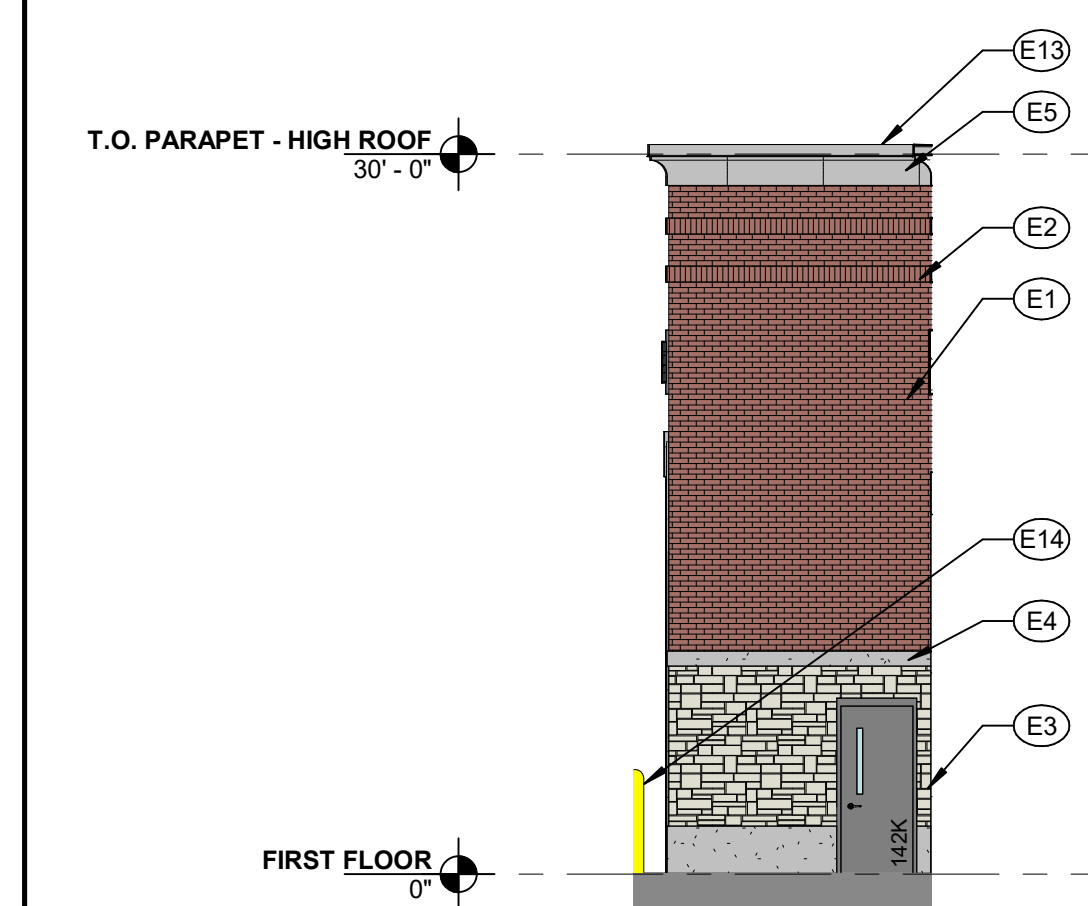
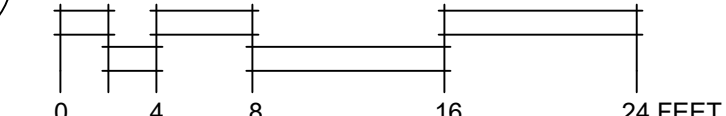
3 SOUTH PARTIAL ELEVATION



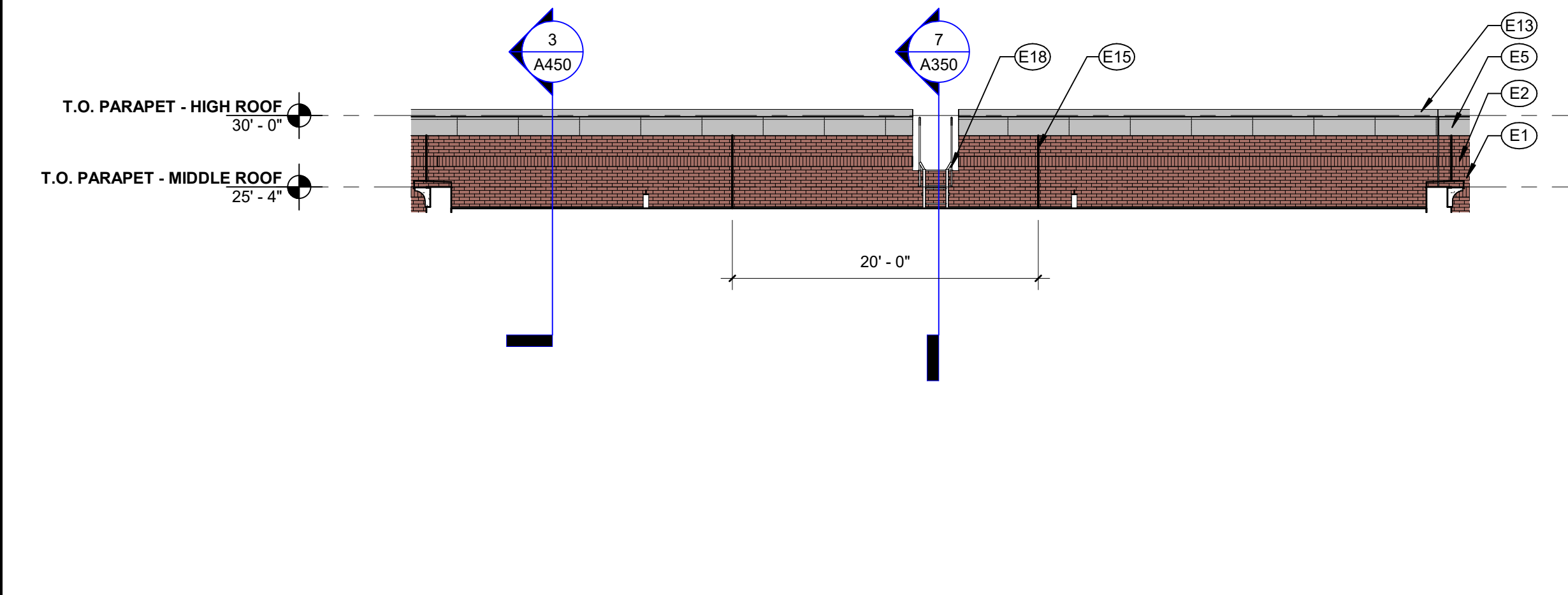
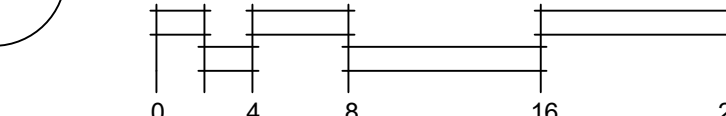
4 WEST PARTIAL ELEVATION



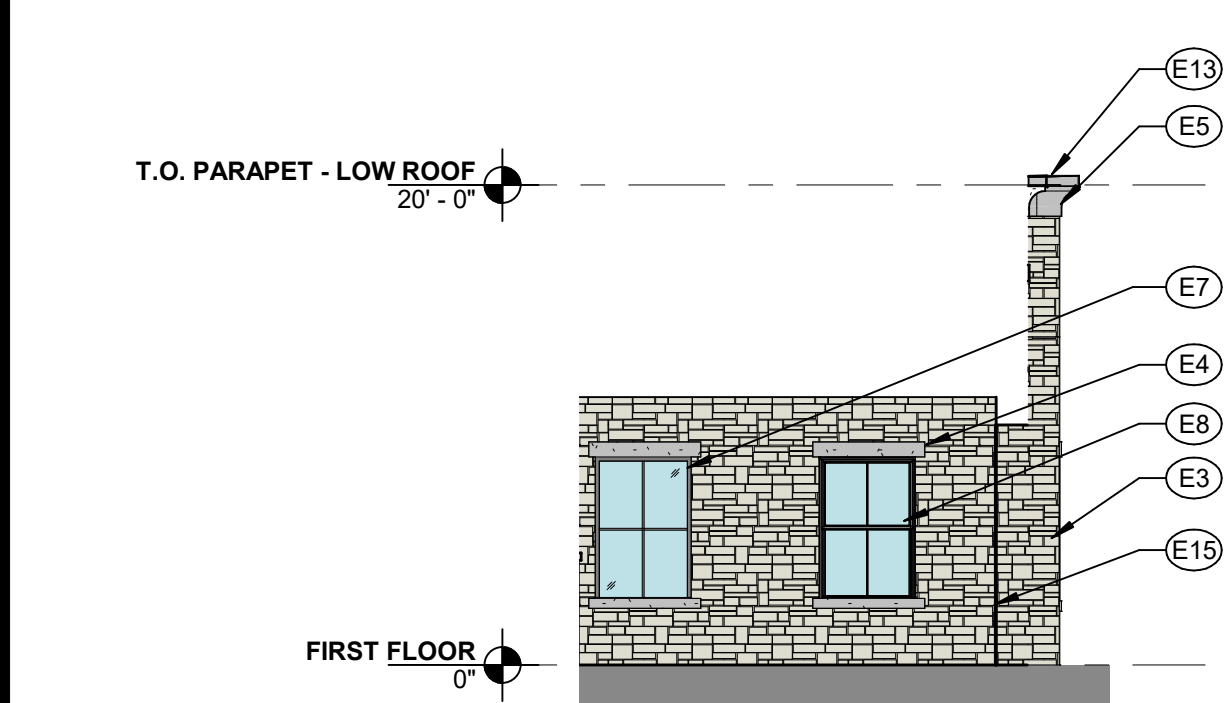
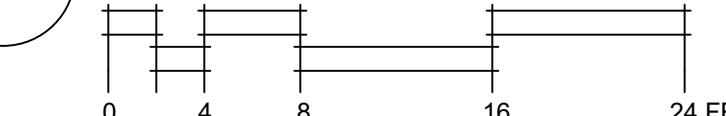
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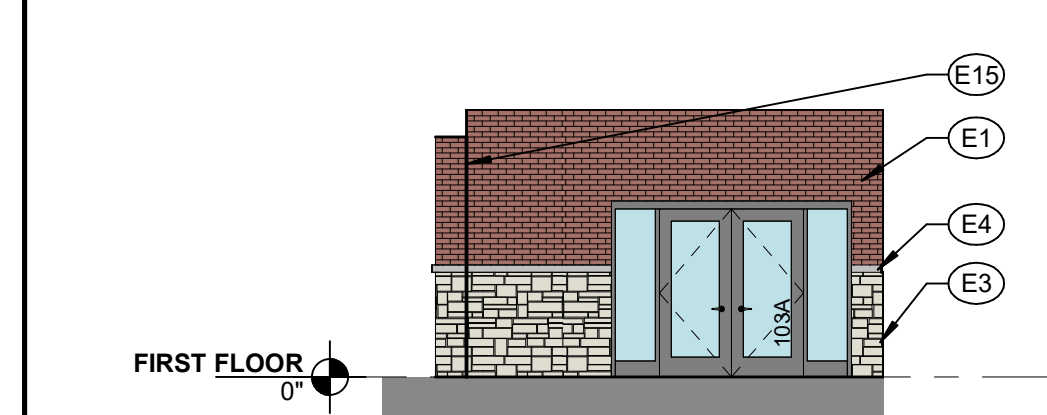
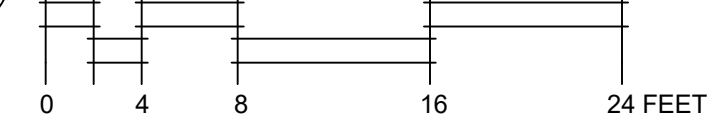
6 WEST PARTIAL ELEVATION



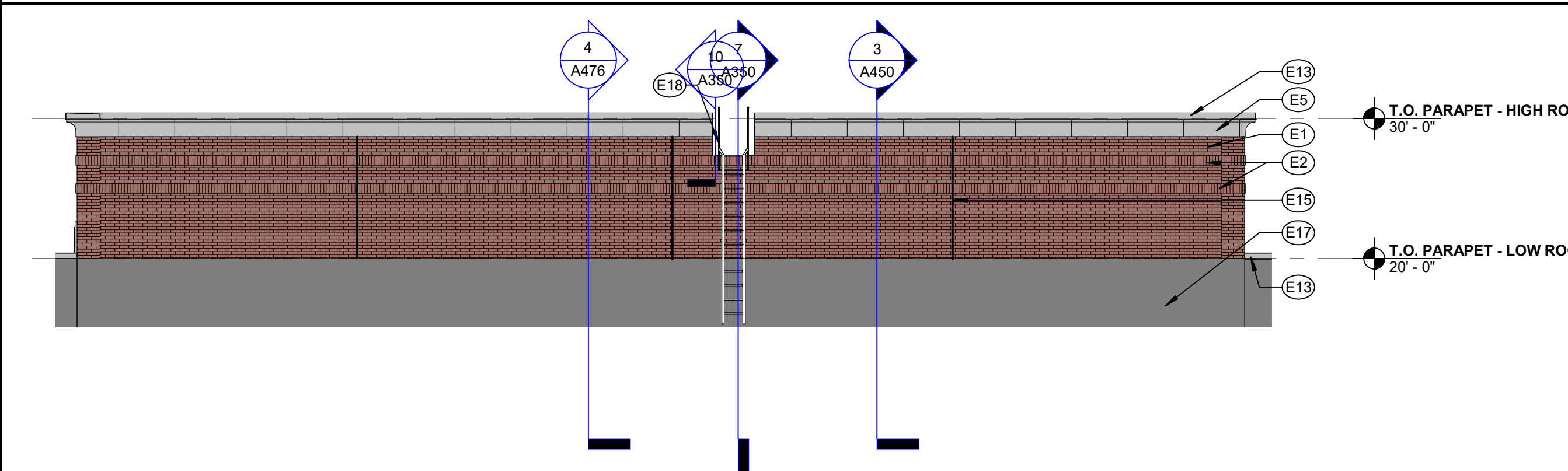
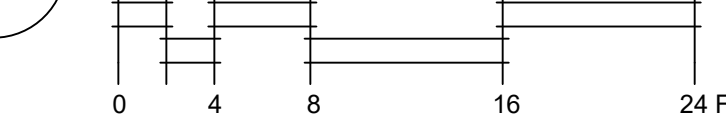
7 EAST PARTIAL ELEVATION



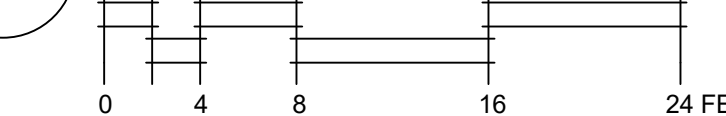
8 NORTH PARTIAL ELEVATION



9 SOUTH PARTIAL ELEVATION



10 WEST PARTIAL ELEVATION



KEYNOTES - EXTERIOR

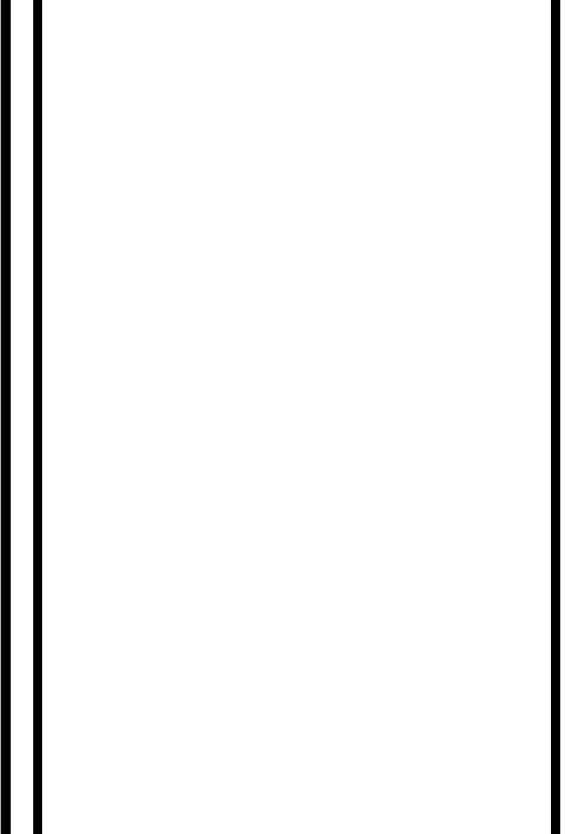
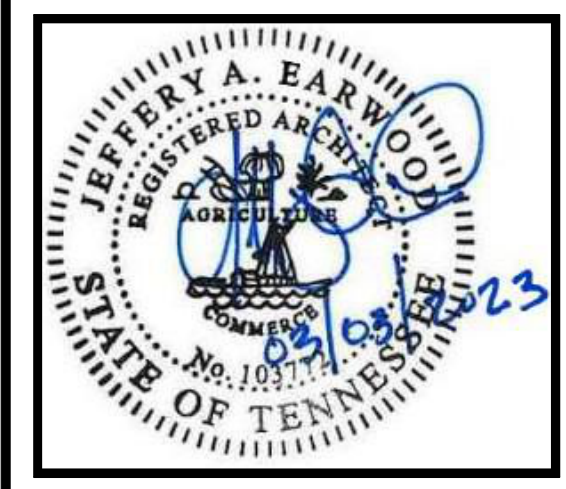
E1	BRICK 1 - GLEN-GERY RAVENNA - MODULAR SIZE - ONE-HALF BOND
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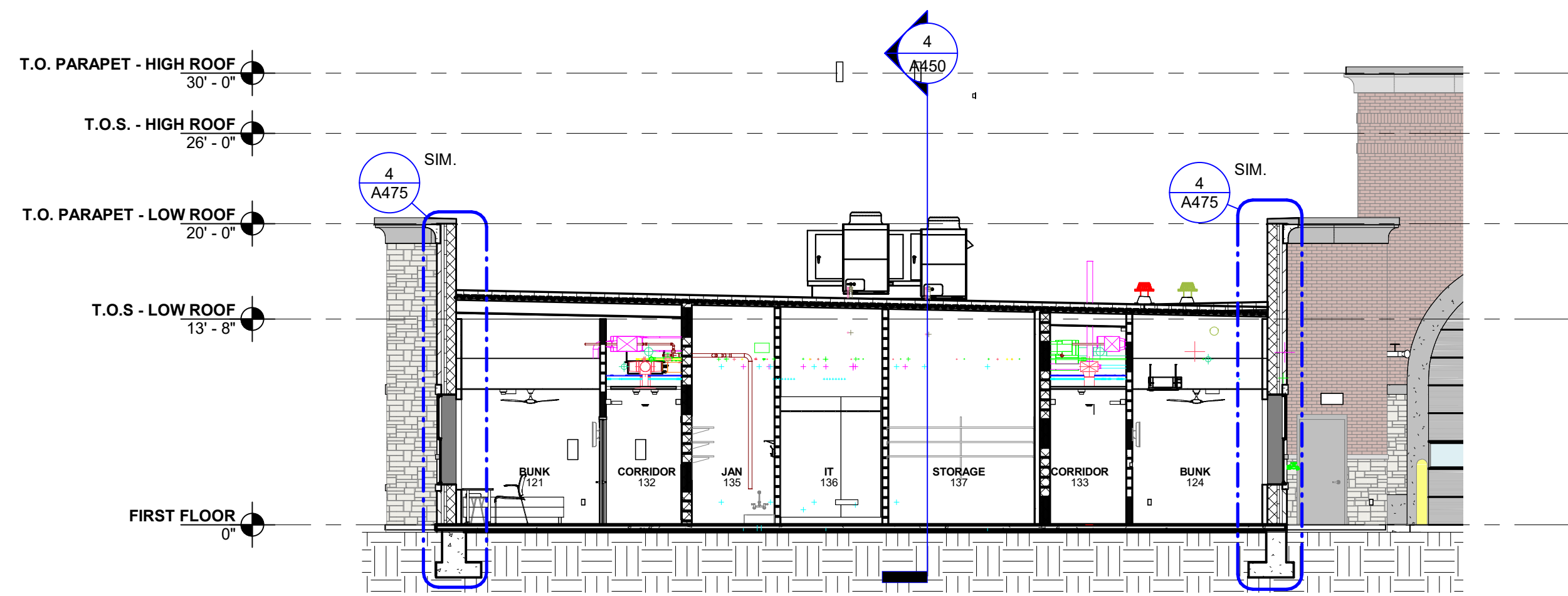


**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

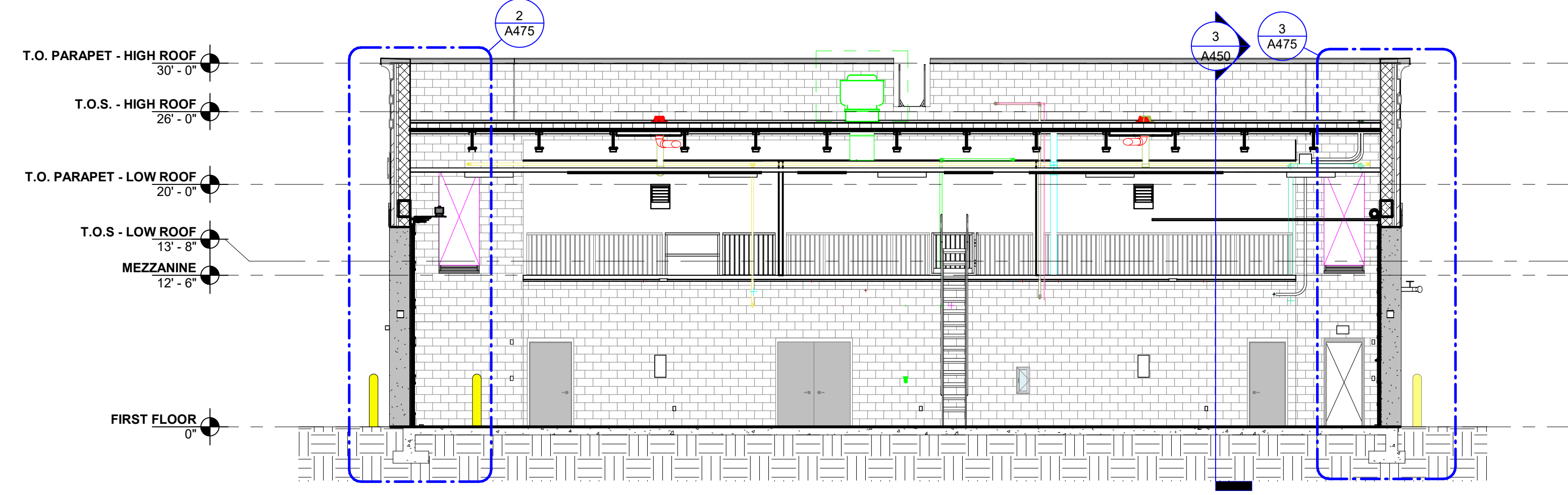
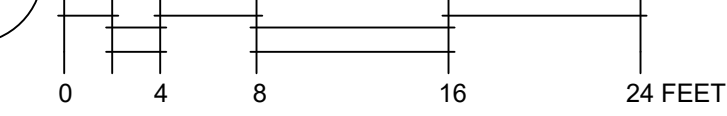
REVISIONS

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CK. BY	JE, LS
PROJ. NO.	A01122
DATE	03/03/23
EXTERIOR ELEVATIONS	

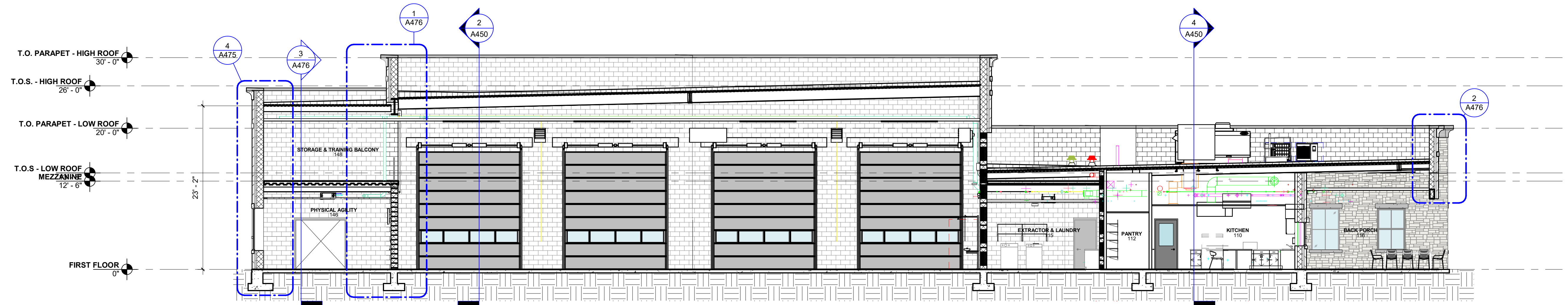
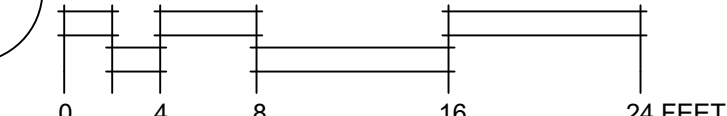
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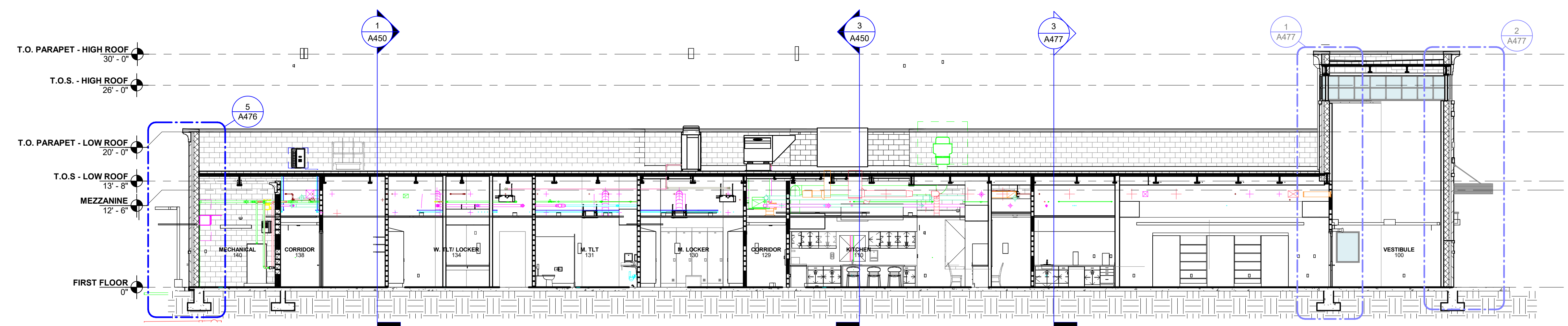
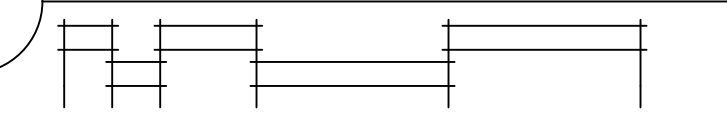
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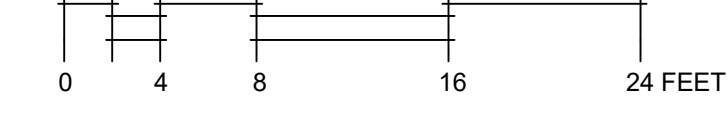
2 BUILDING SECTION APPARATUS BAY NORTH-SOUTH



3 BUILDING SECTION EAST-WEST

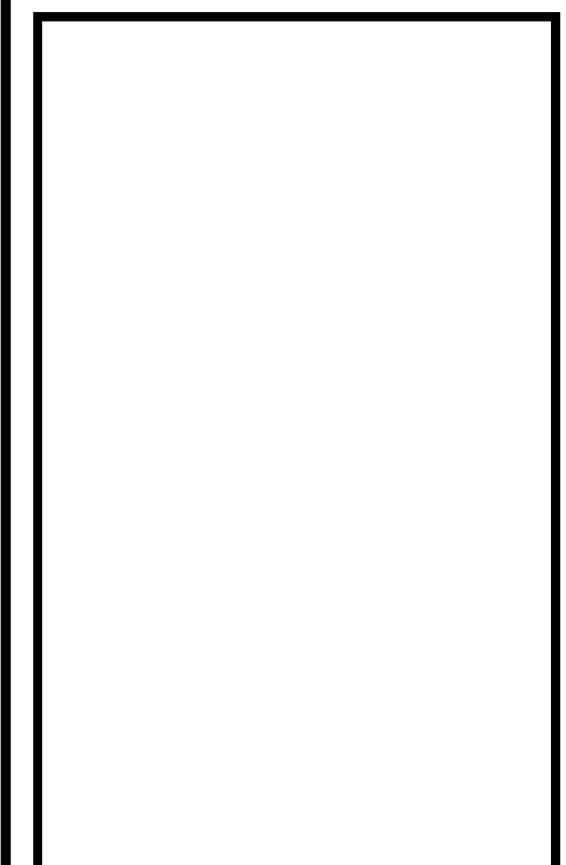
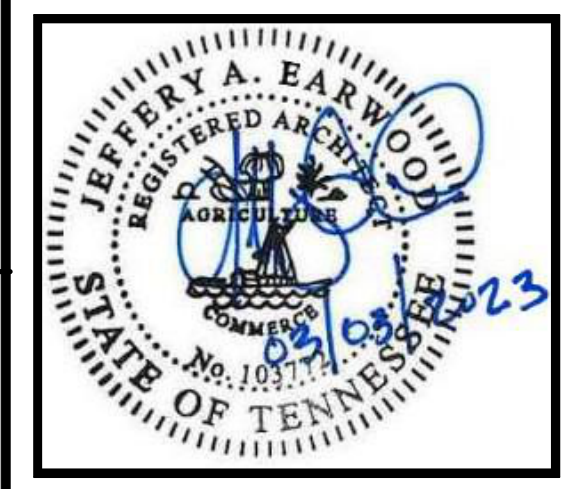


4 BUILDING SECTION NORTH SOUTH



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TOWN OF NOLENSVILLE
FIRE STATION #1
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NOLENSVILLE, TENNESSEE

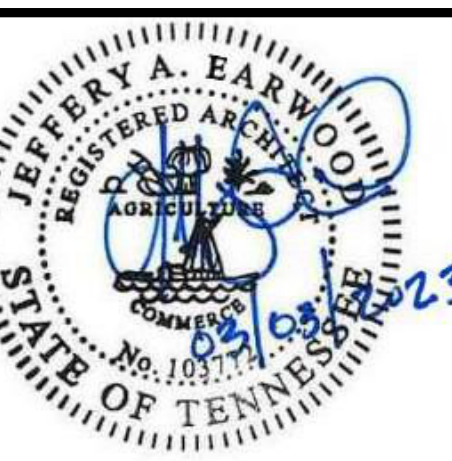


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PROJ. NO.	A01122
DATE	03/03/23

BUILDING SECTIONS

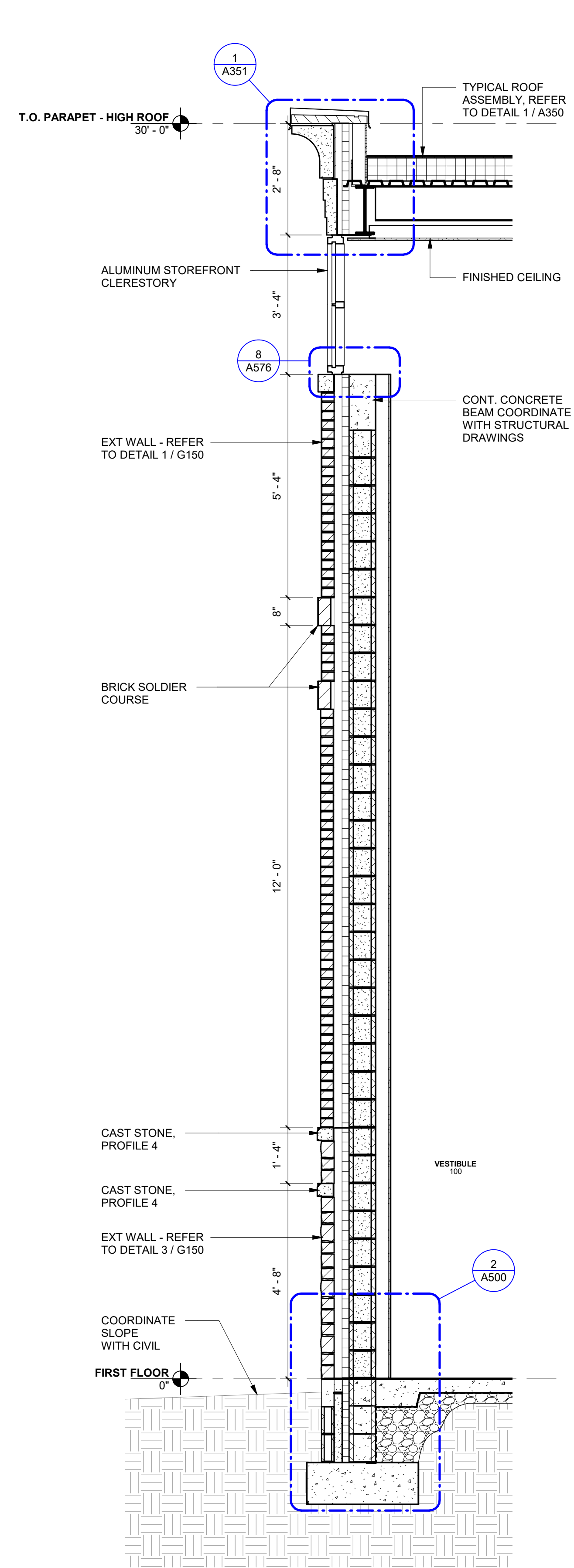
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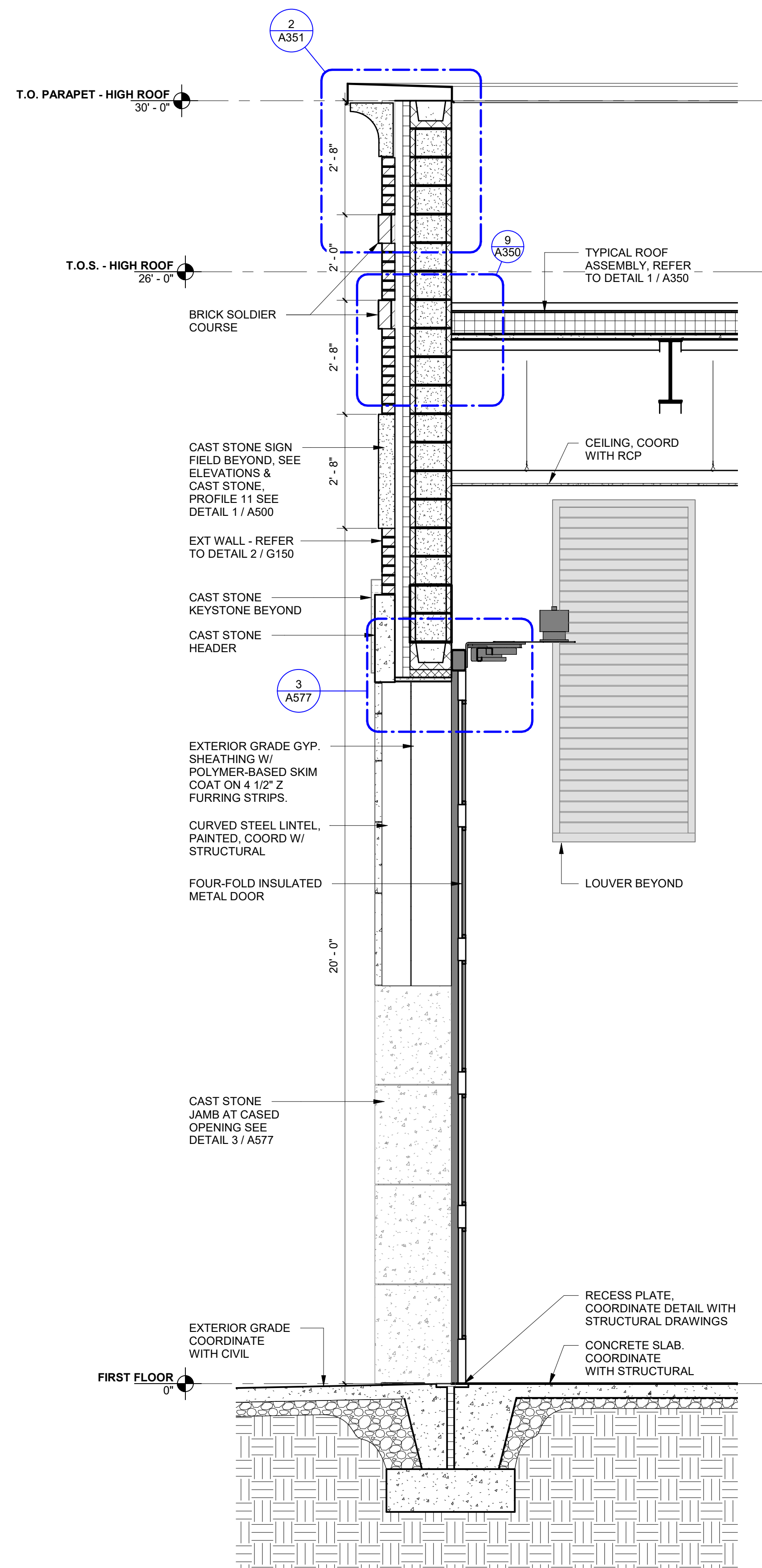
**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

REVISIONS

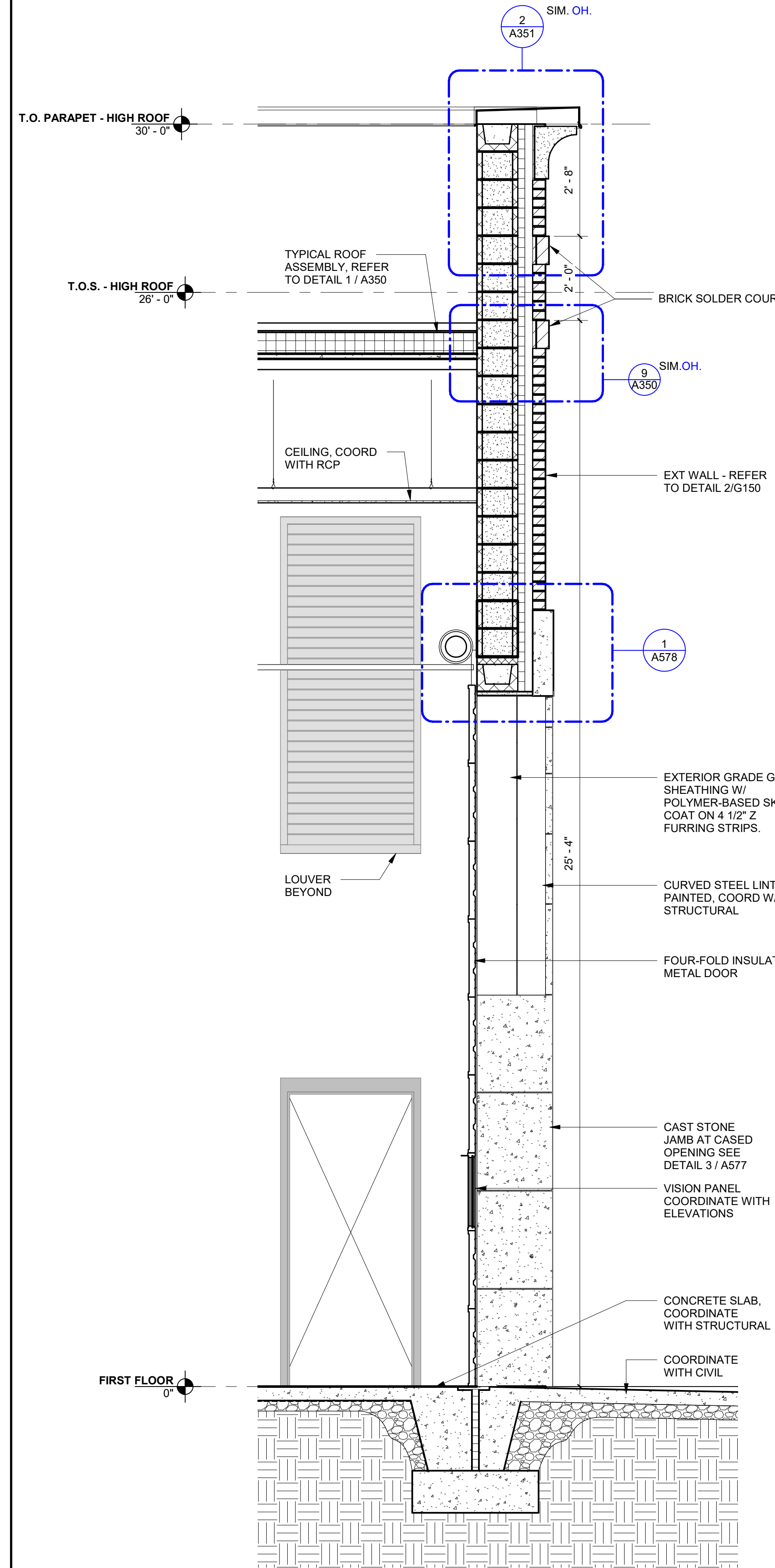
DR. BY	SH, NK
CK. BY	JE, LS
PROJ. NO.	A01122
DATE	03/03/23
WALL SECTIONS	



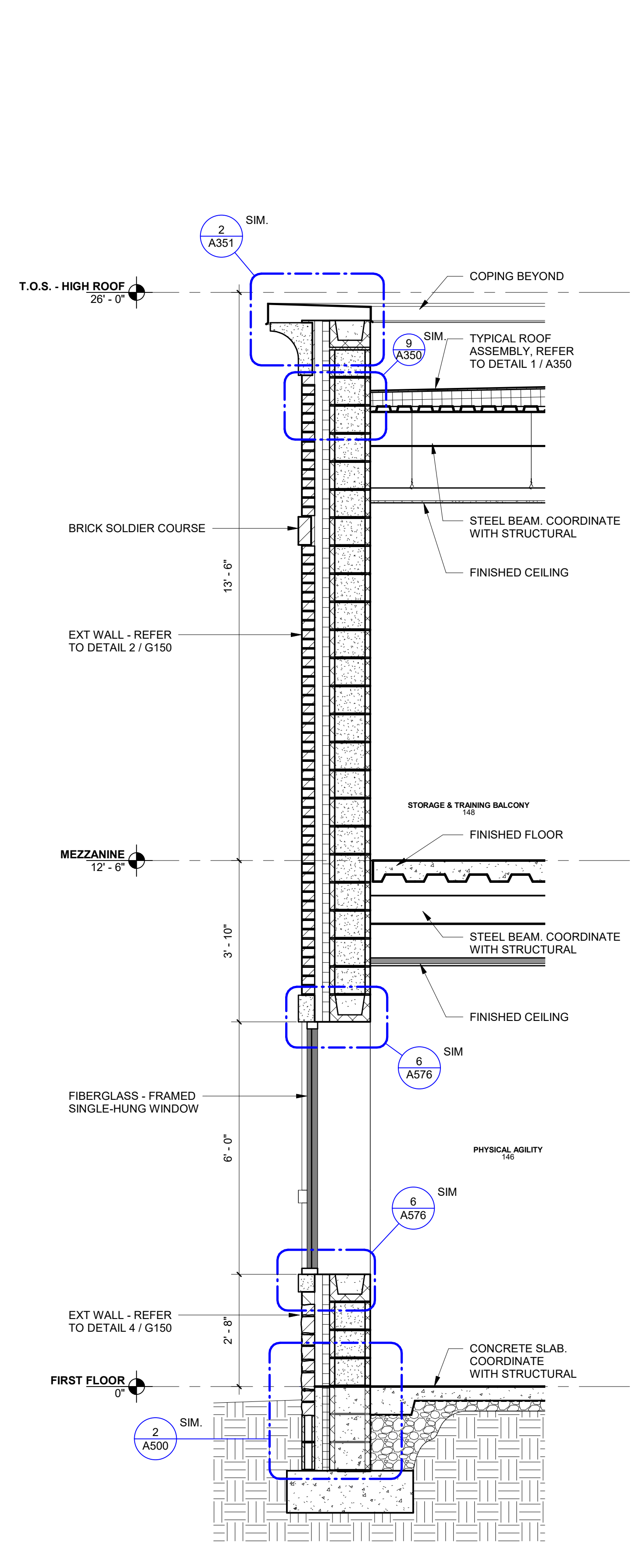
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0 1 2 4 6 FEET



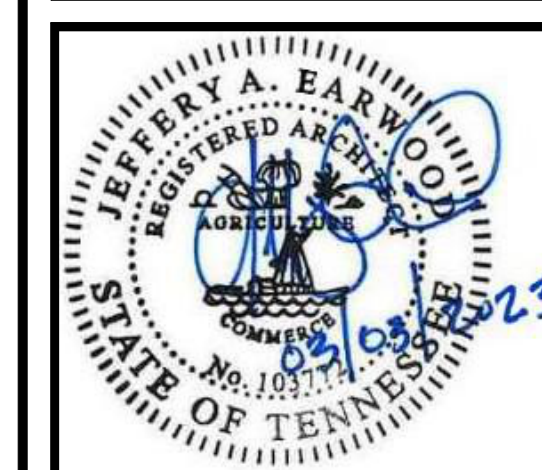
2 WALL SECTION
0 1 2 4 6 FEET



3 WALL SECTION
0 1 2 4 6 FEET



4 WALL SECTION
0 1 2 4 6 FEET

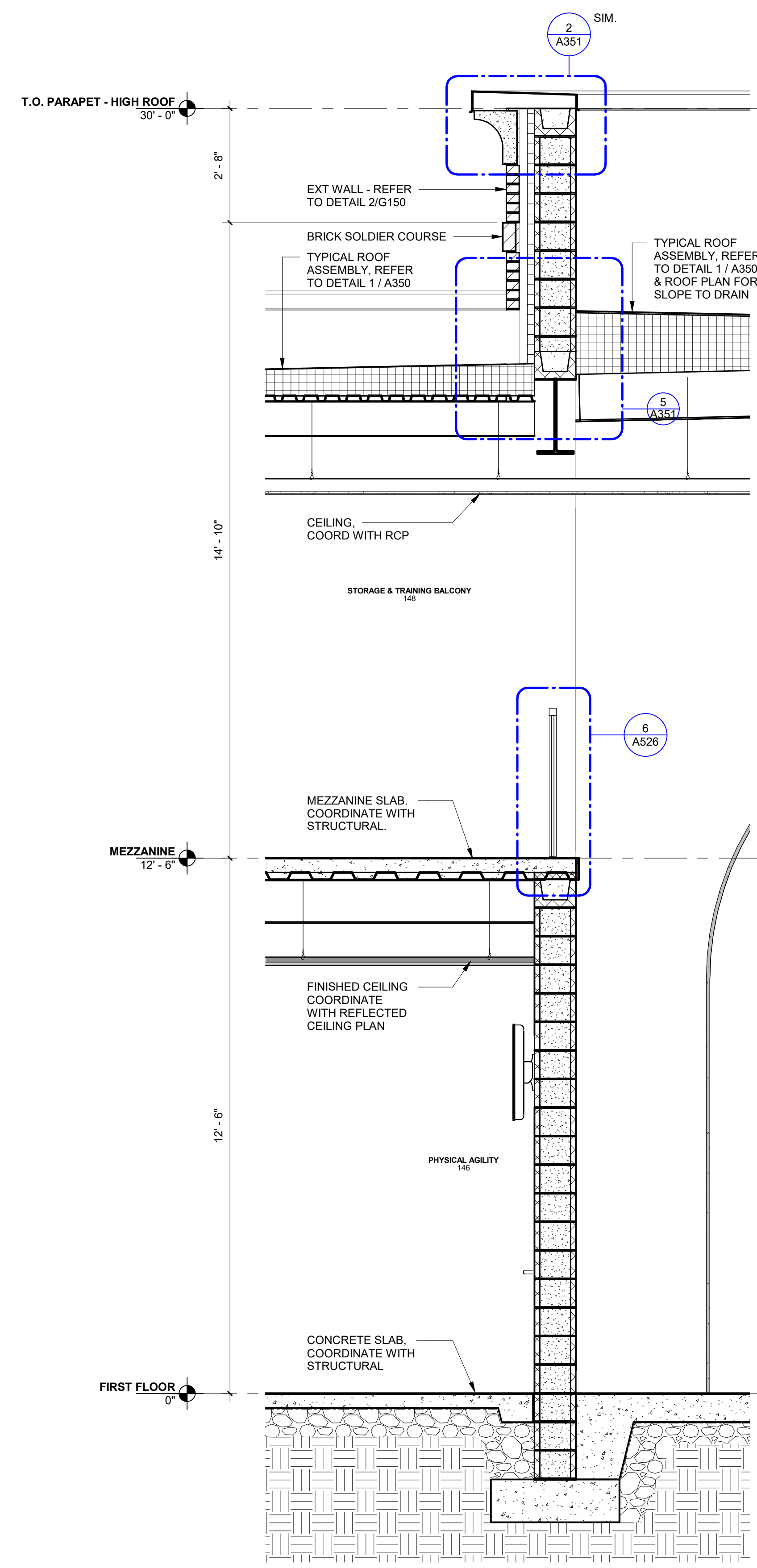


**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

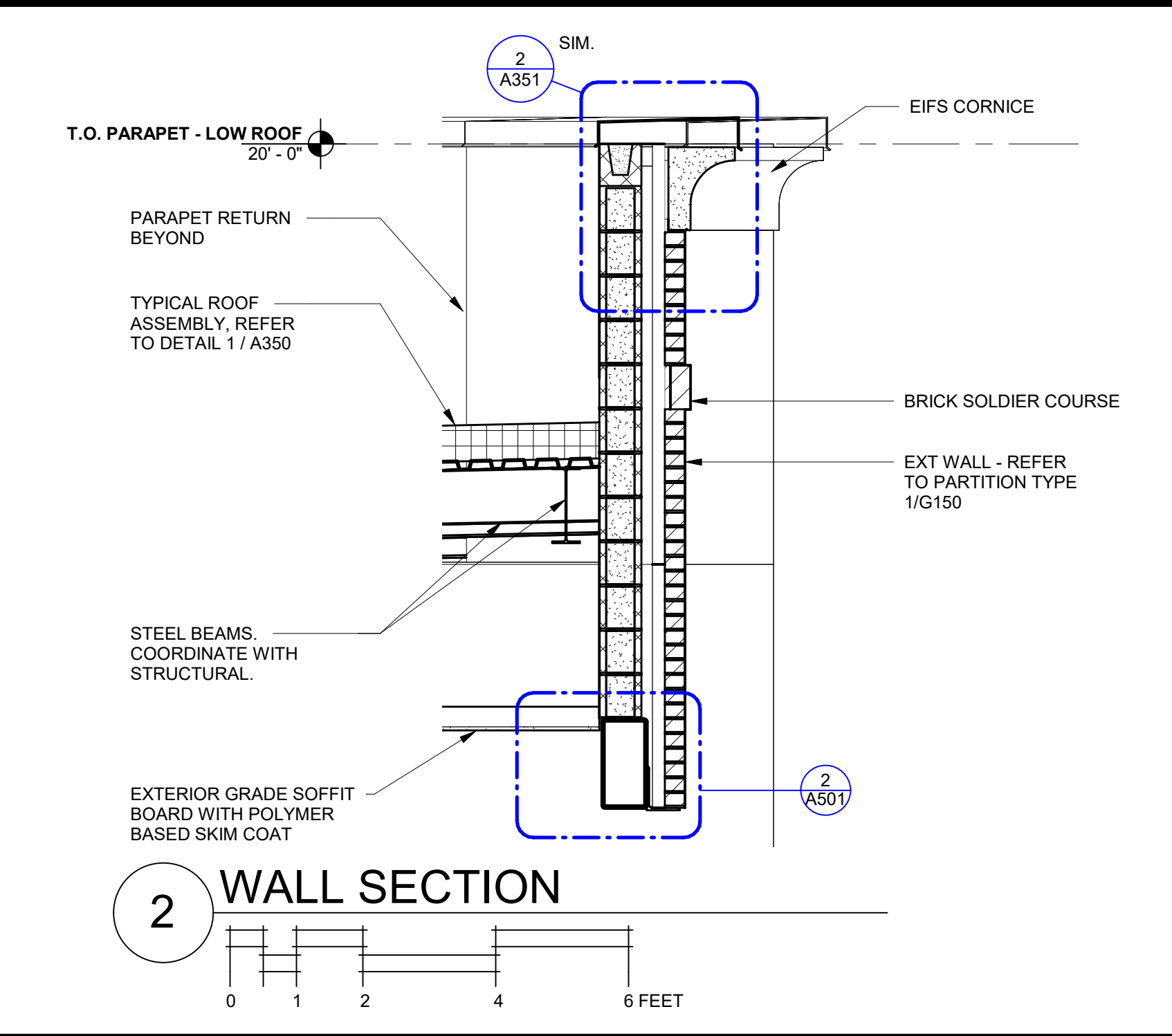
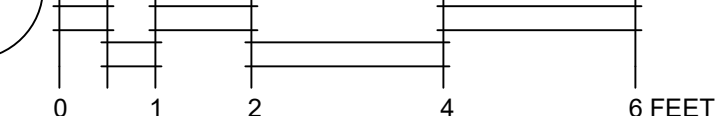
REVISIONS

NO.	DATE	DESCRIPTION

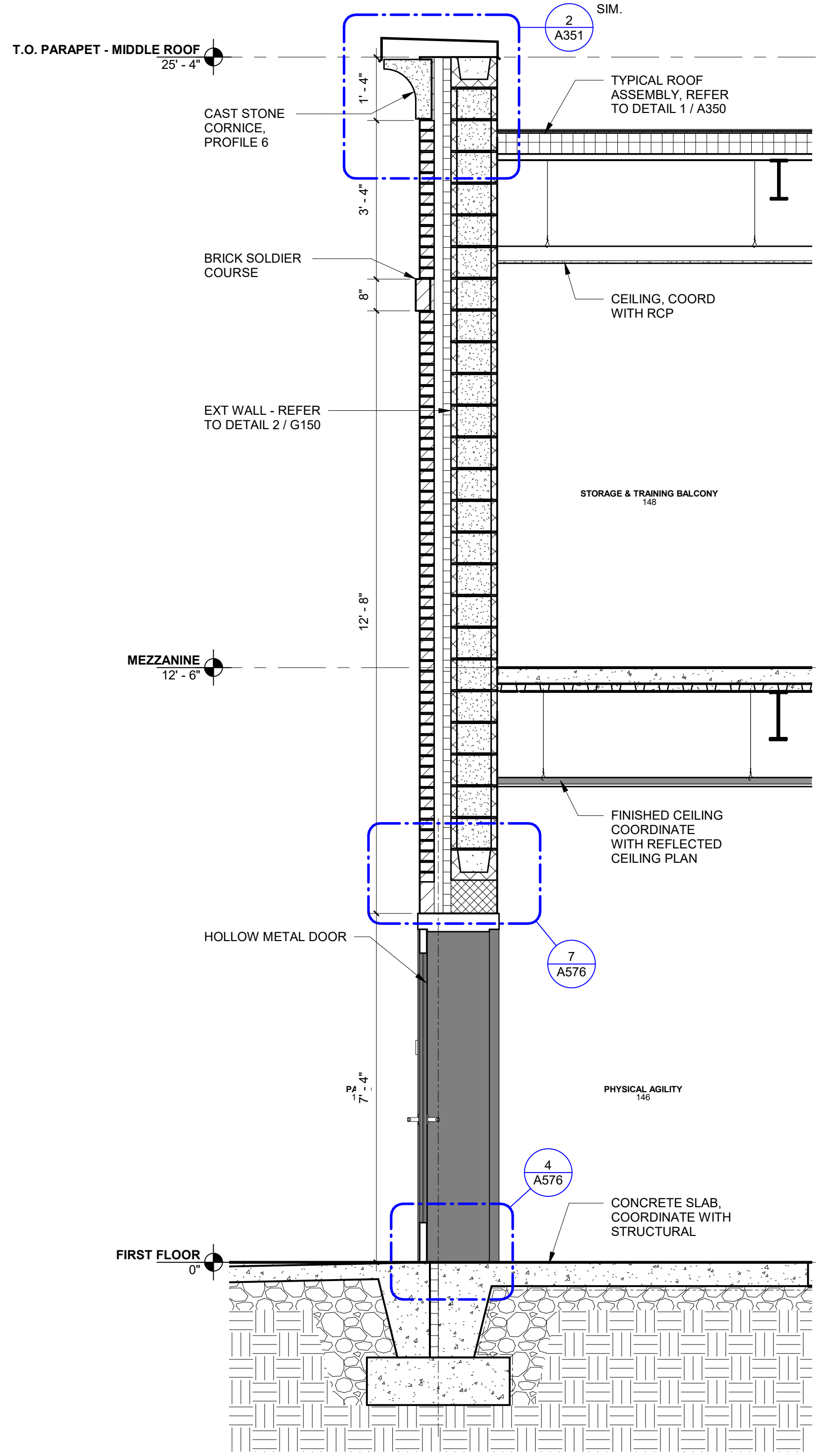
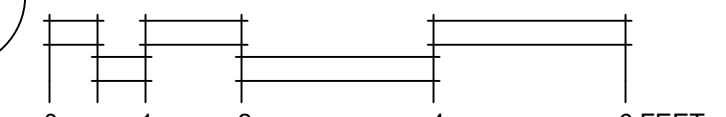
DR. BY SH, NK
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PROJ. NO. A01122
DATE 03/03/23
WALL SECTIONS



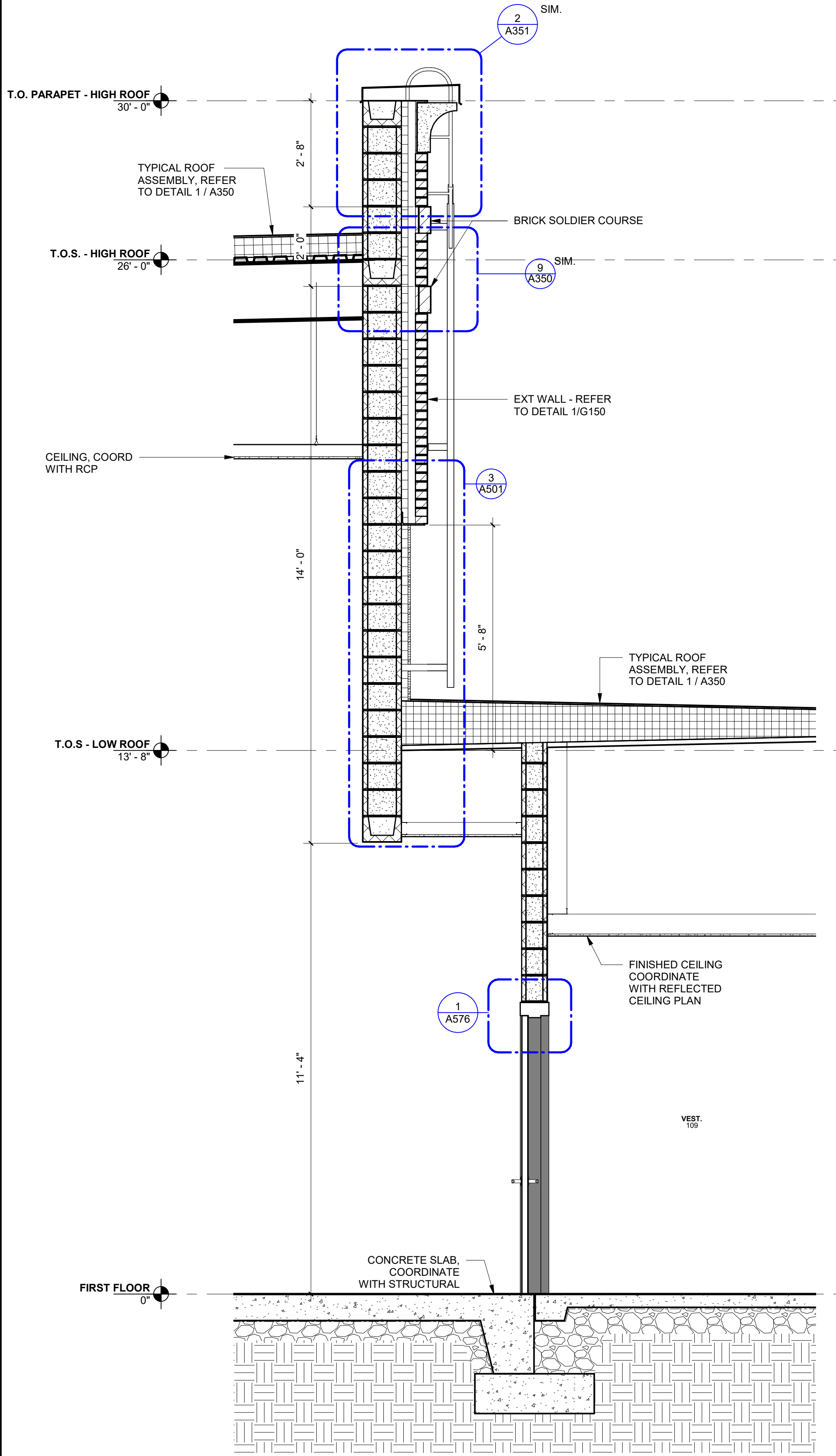
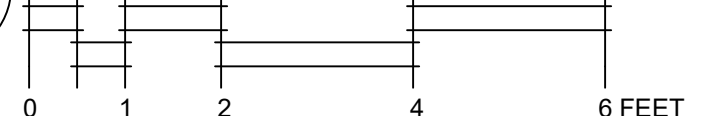
1 WALL SECTION



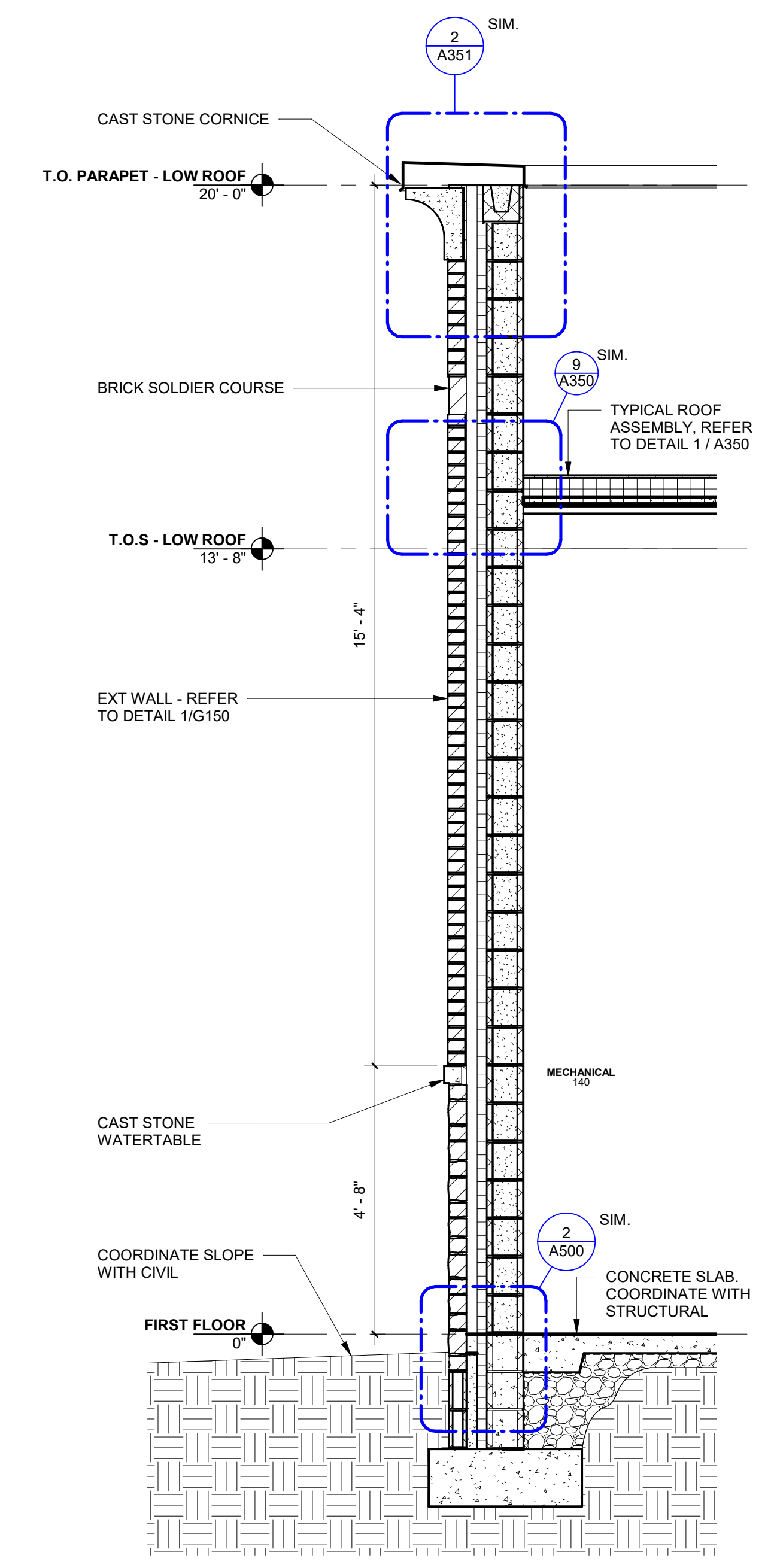
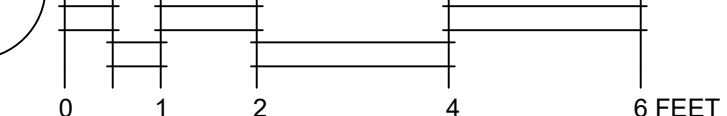
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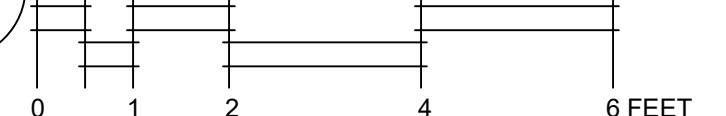
3 WALL SECTION

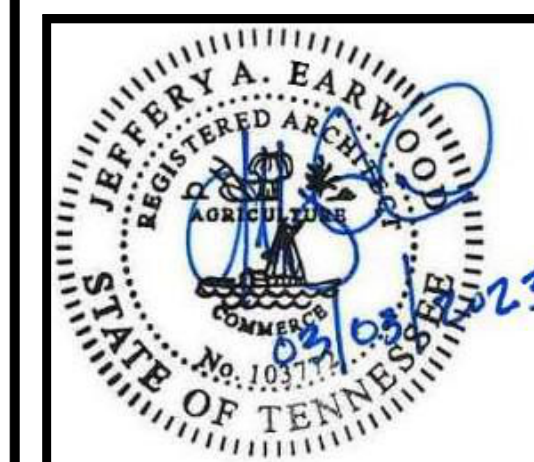


4 WALL SECTION



5 WALL SECTION





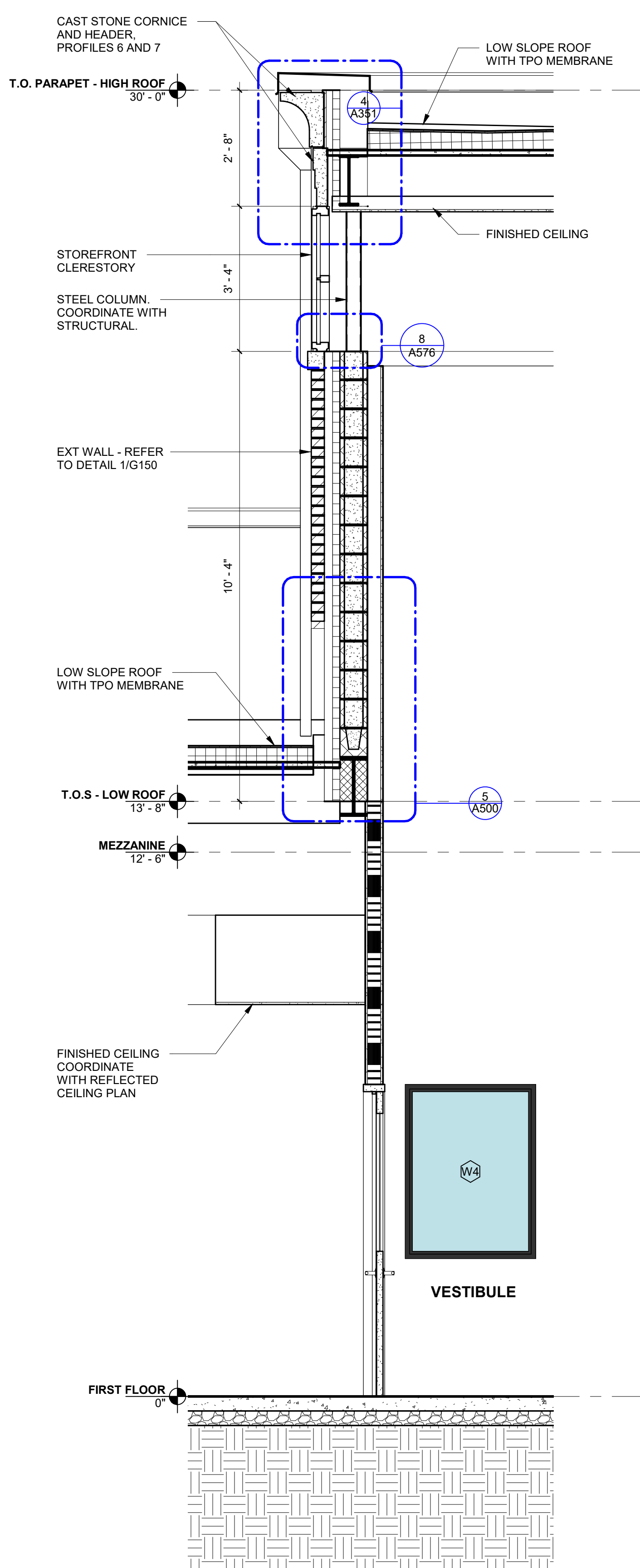
**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

REVISIONS

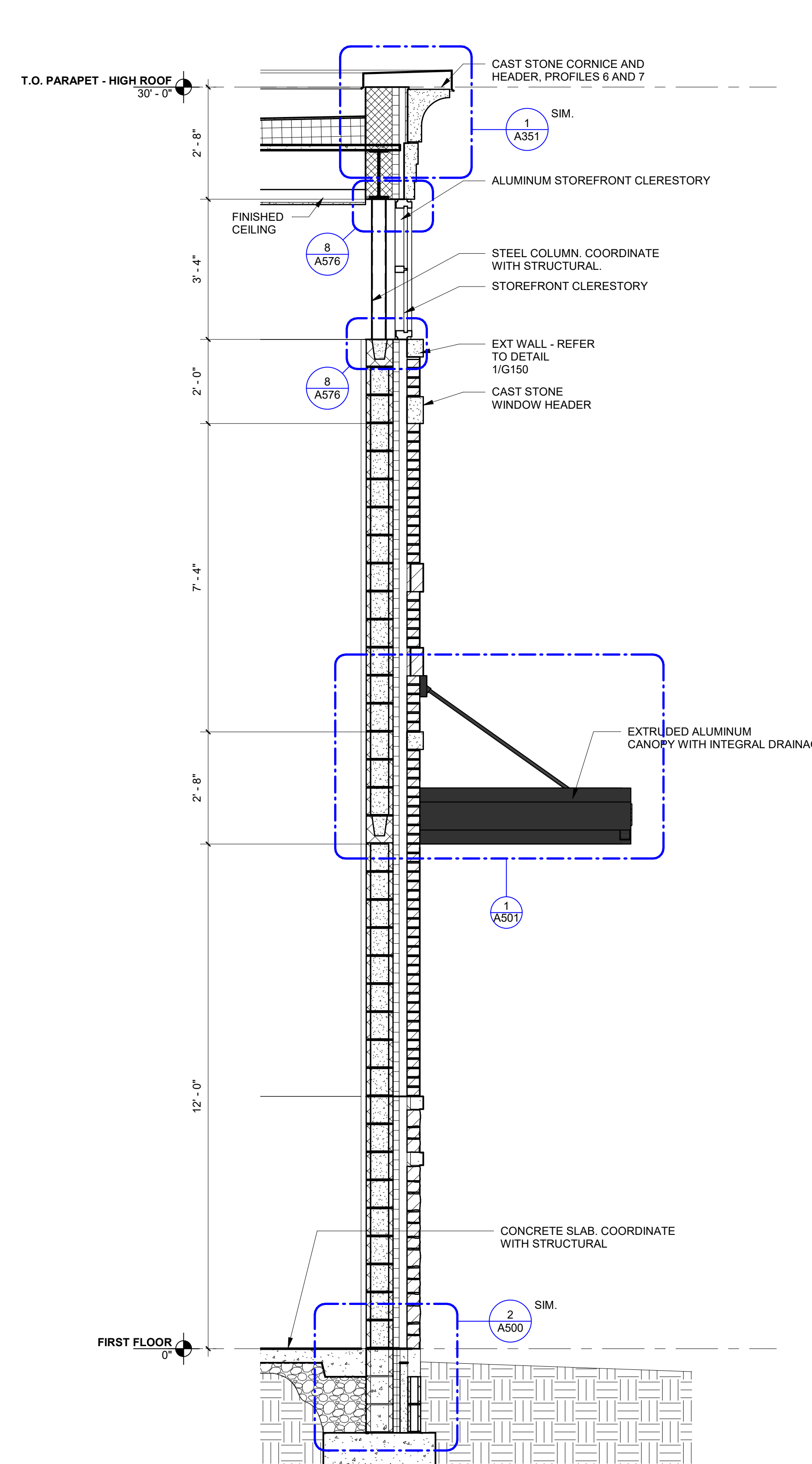
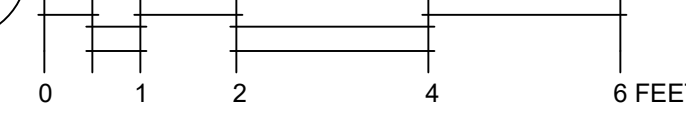
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PROJ. NO. A01122
DATE 03/03/23
WALL SECTIONS

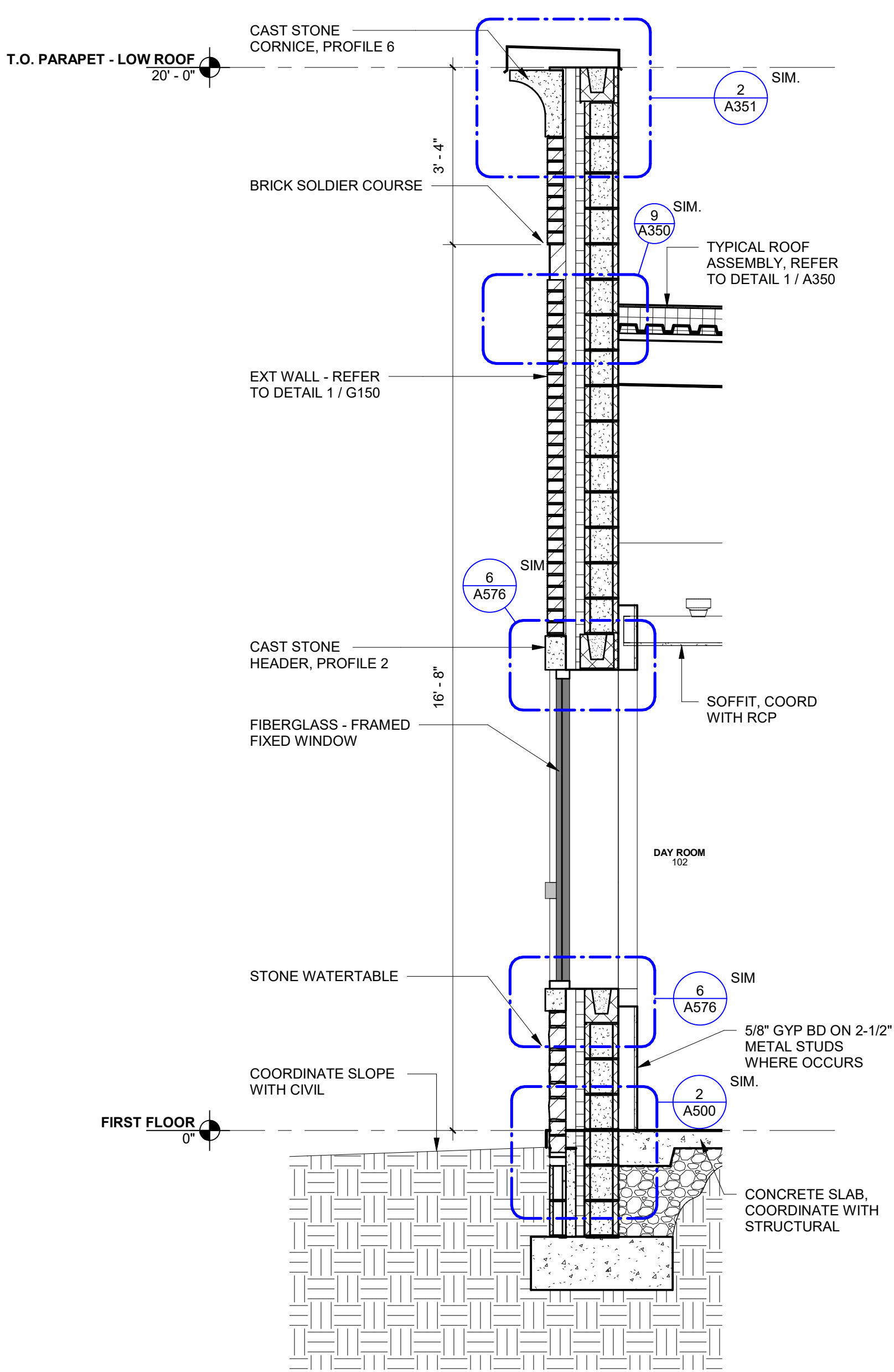
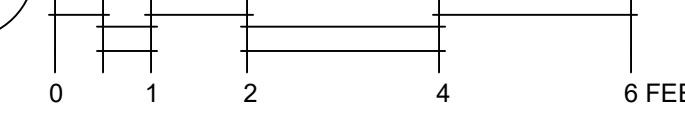
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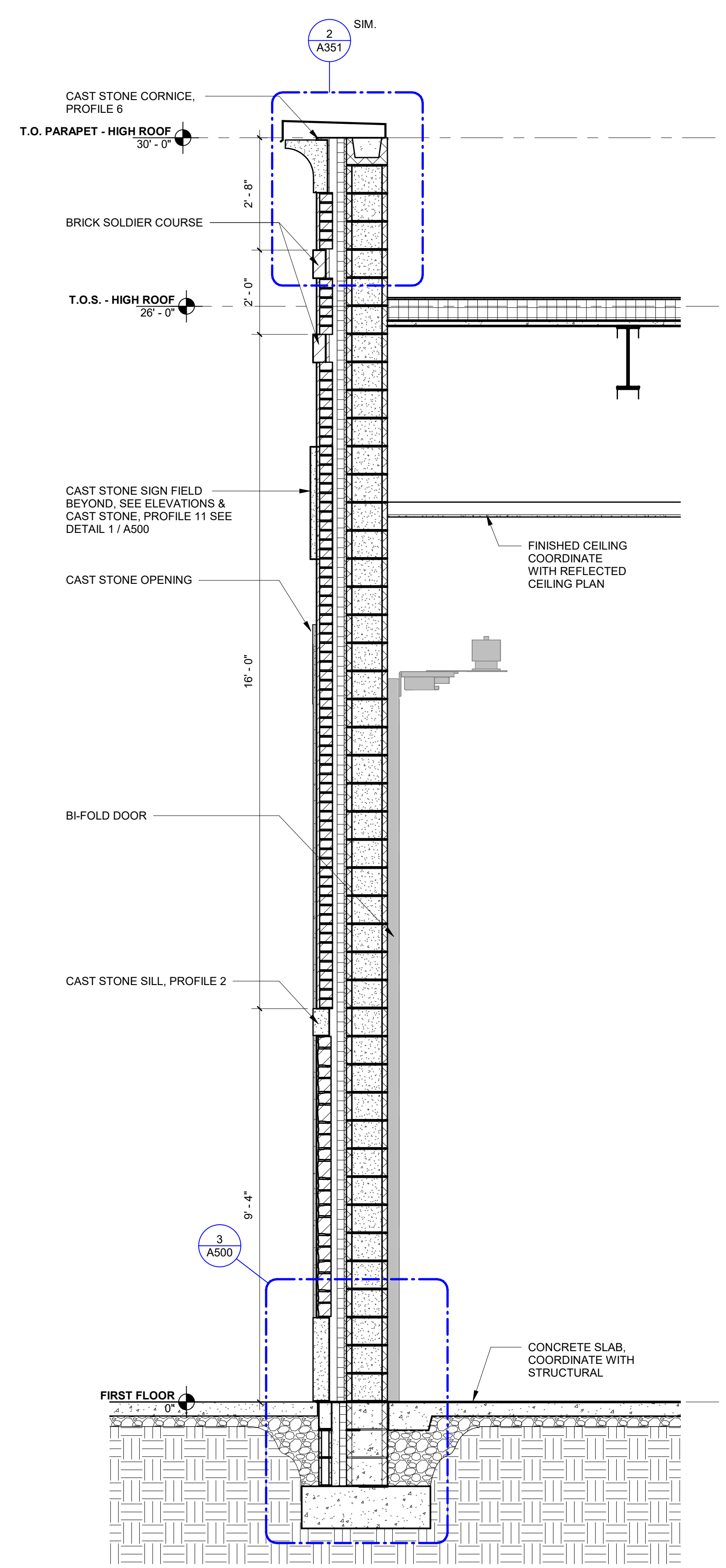
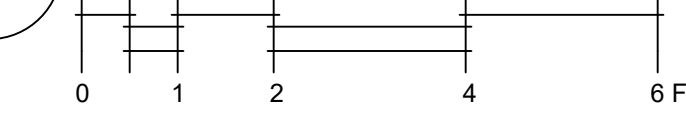
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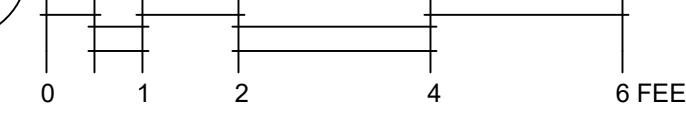
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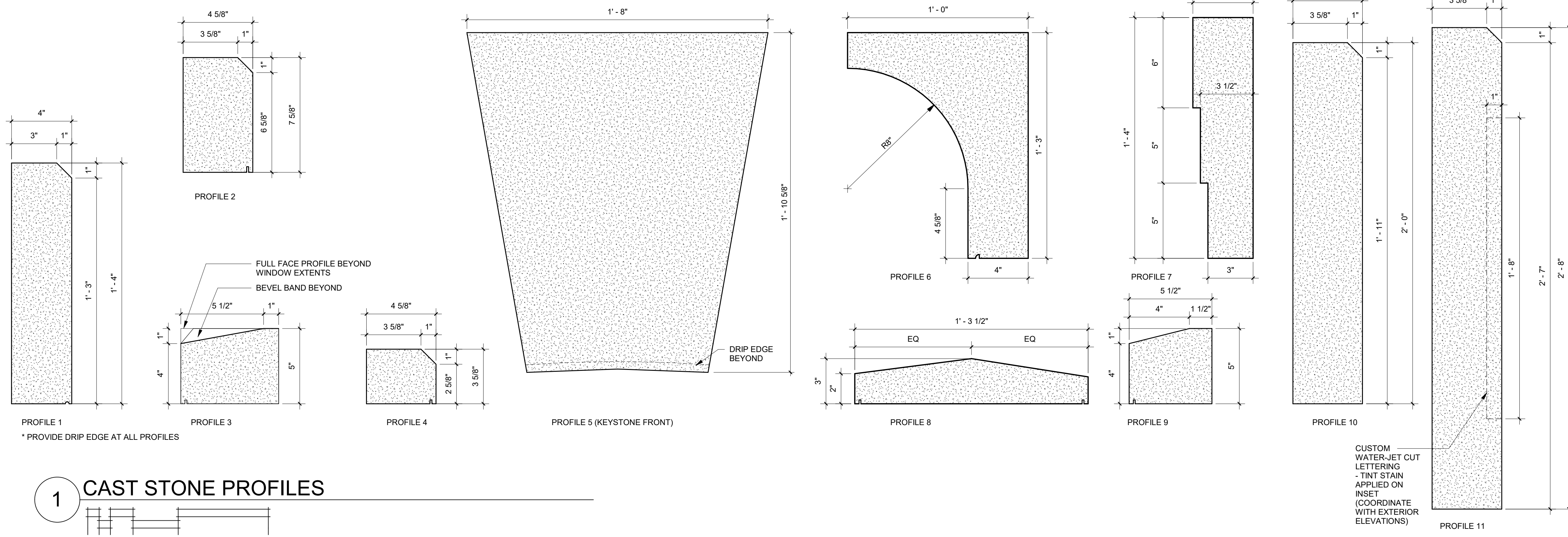


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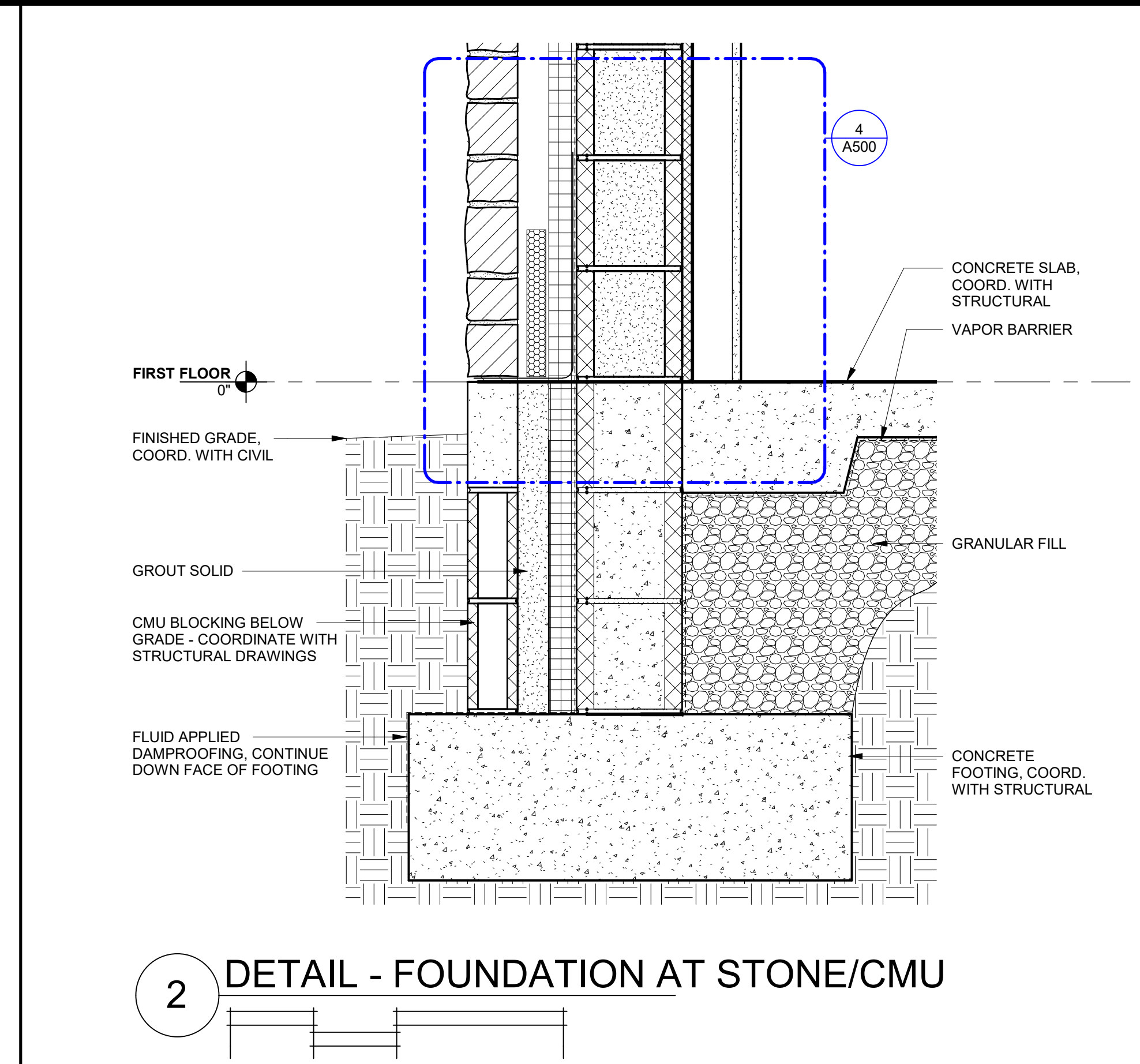
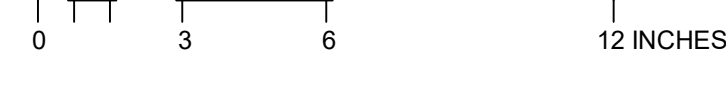


4 WALL SECTION

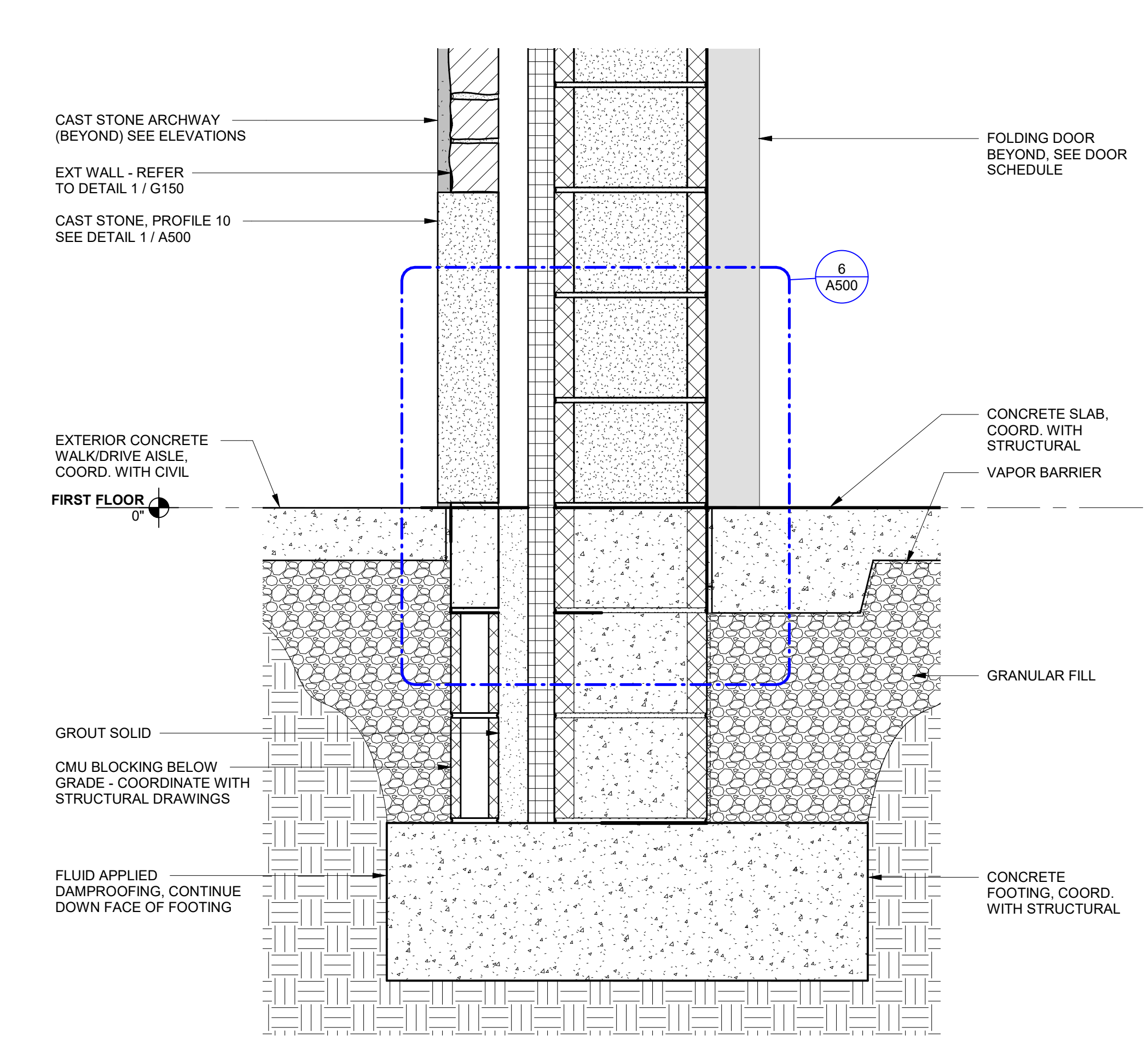
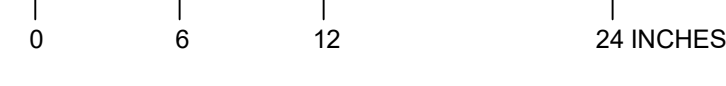




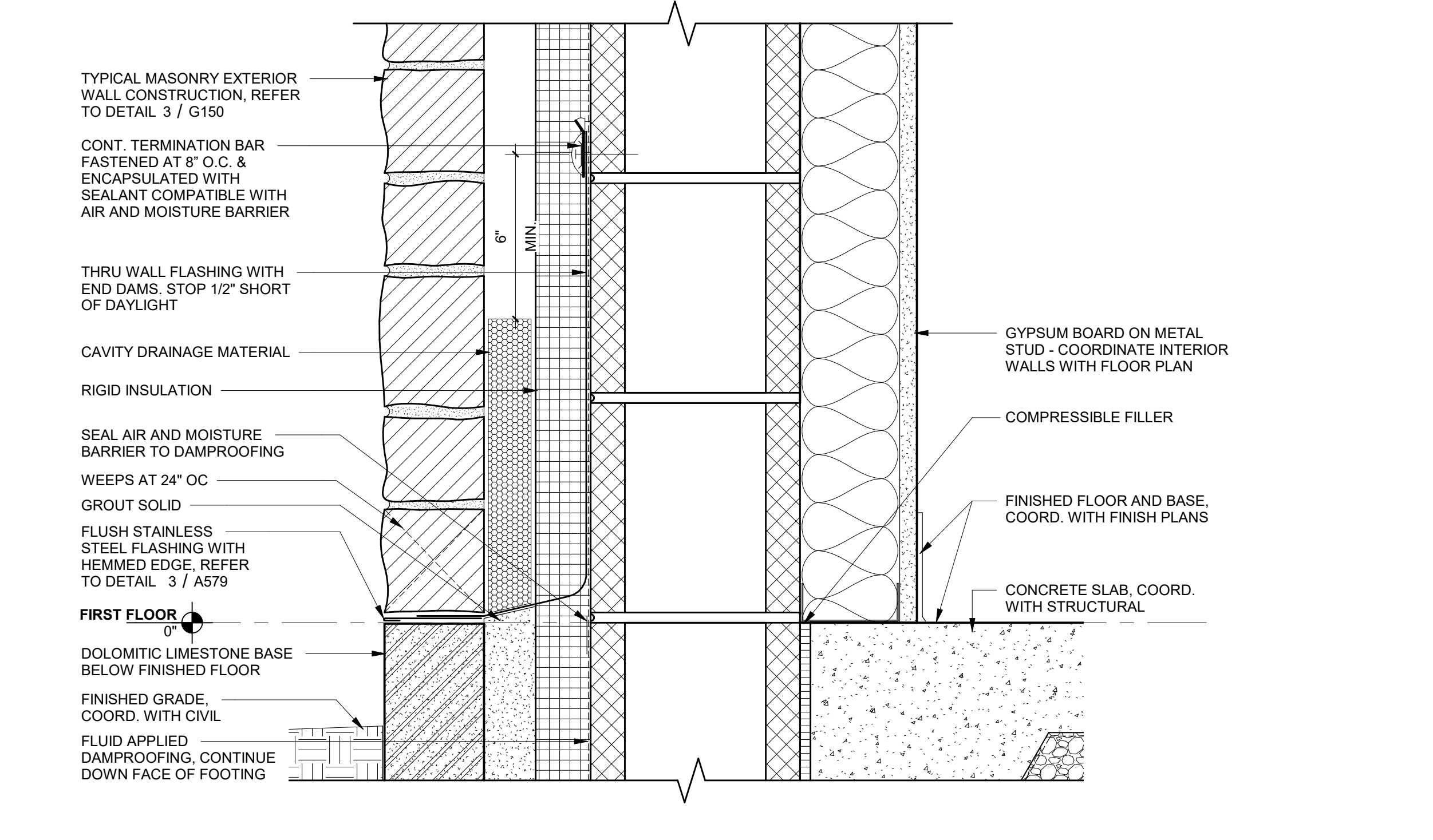
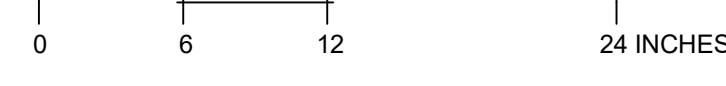
1 CAST STONE PROFILES



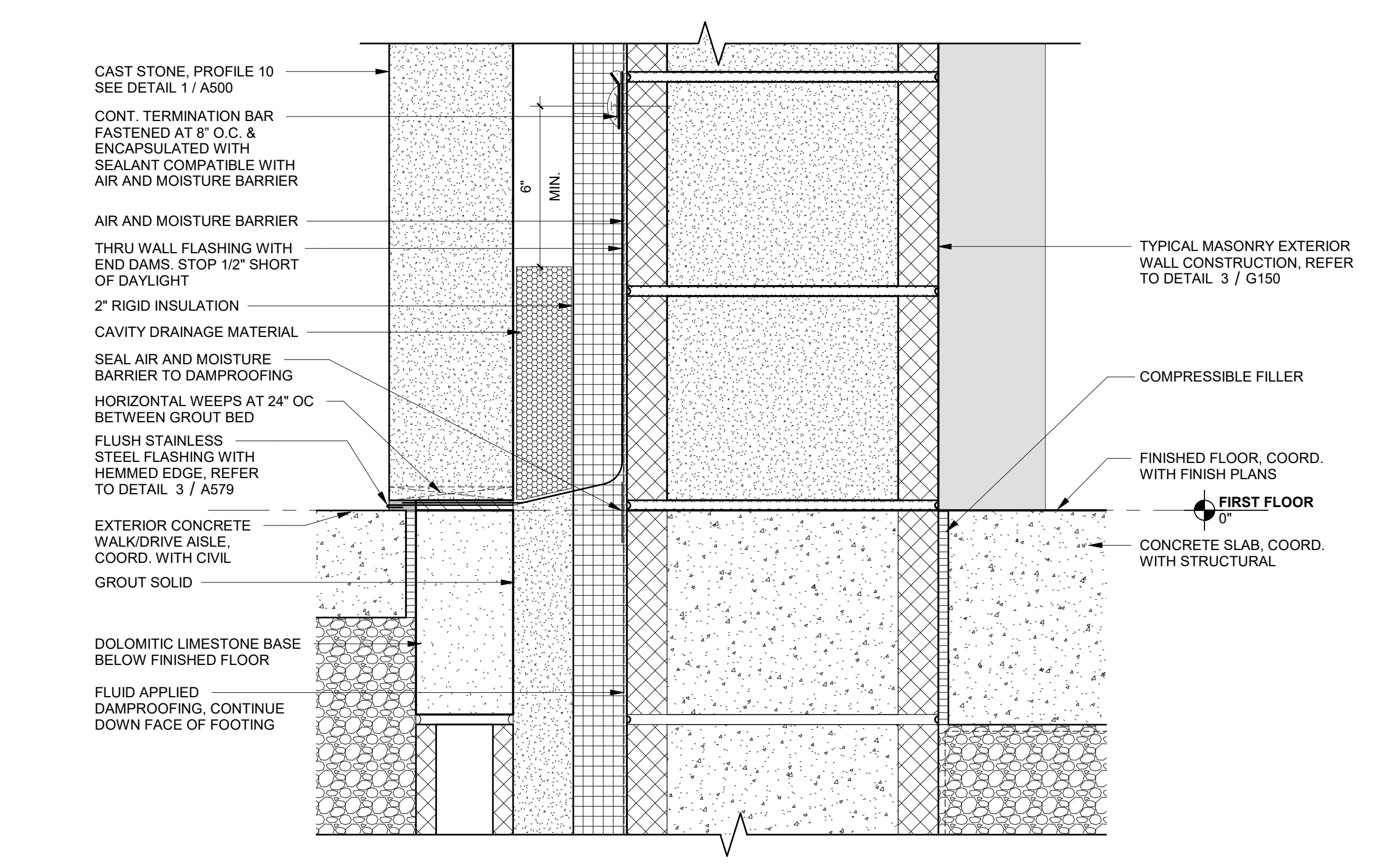
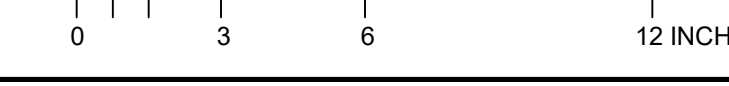
2 DETAIL - FOUNDATION AT STONE/CMU



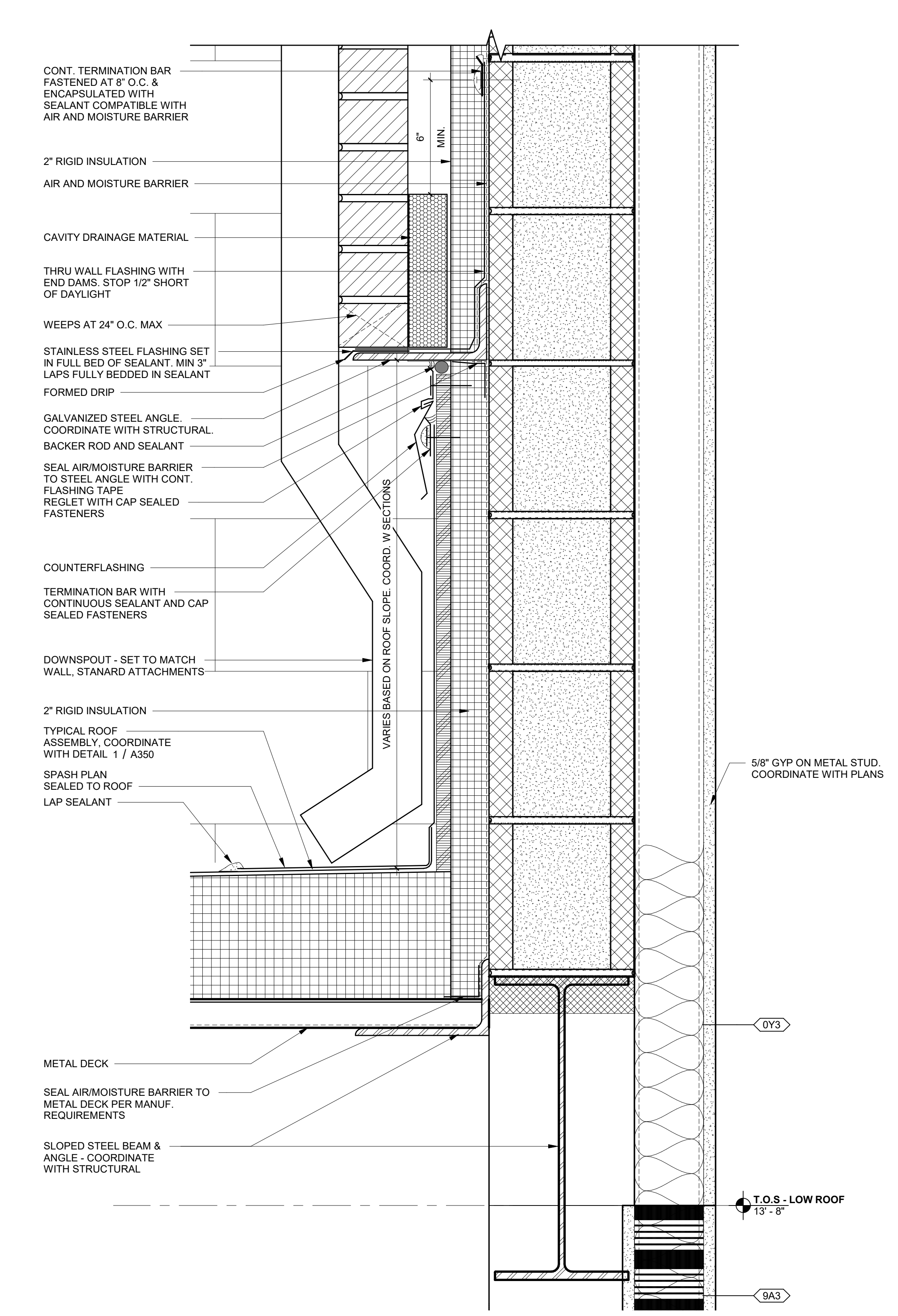
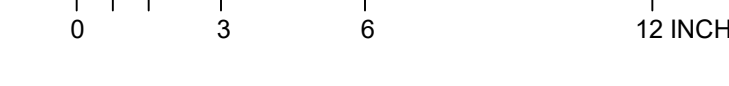
3 DETAIL - FOUNDATION AT CAST STONE



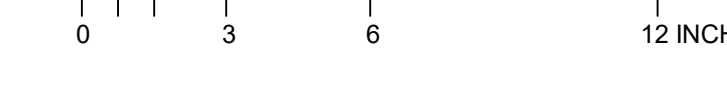
4 DETAIL - FLASHING AT GRADE



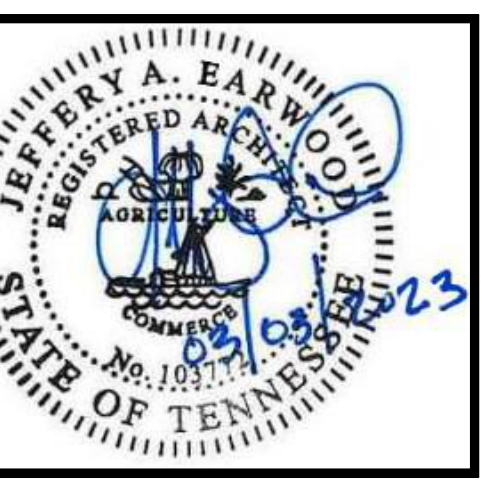
6 DETAIL - FLASHING FLUSH AT GRADE



5 WALL TRANSITION AT BACK OF LANTERN



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TOWN OF NOLENSVILLE
FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE

REVISIONS

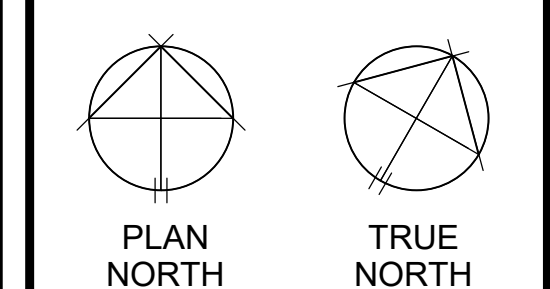
NO.	DATE	DESCRIPTION

EXTERIOR SECTION DETAILS

A500



**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

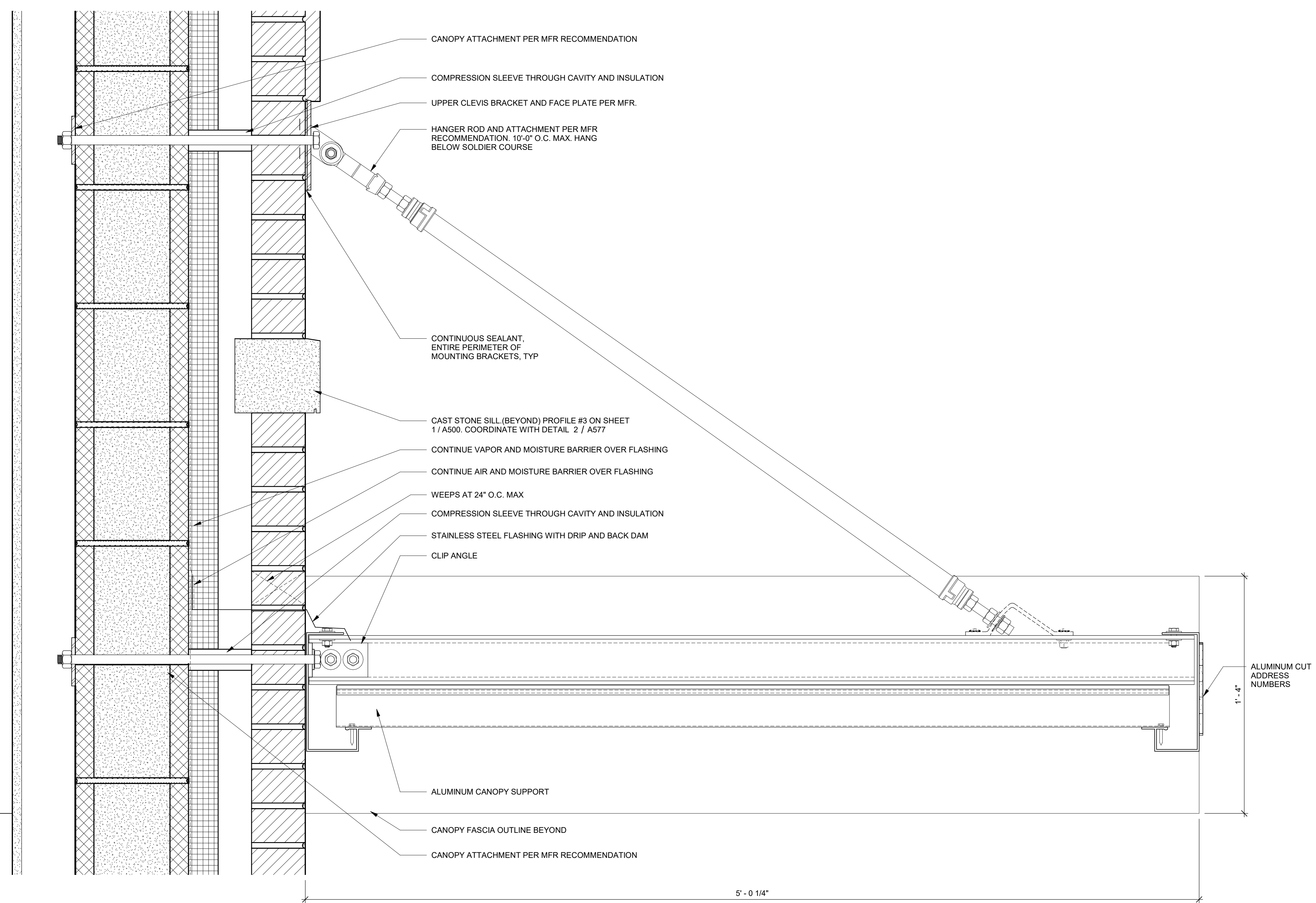


REVISIONS	

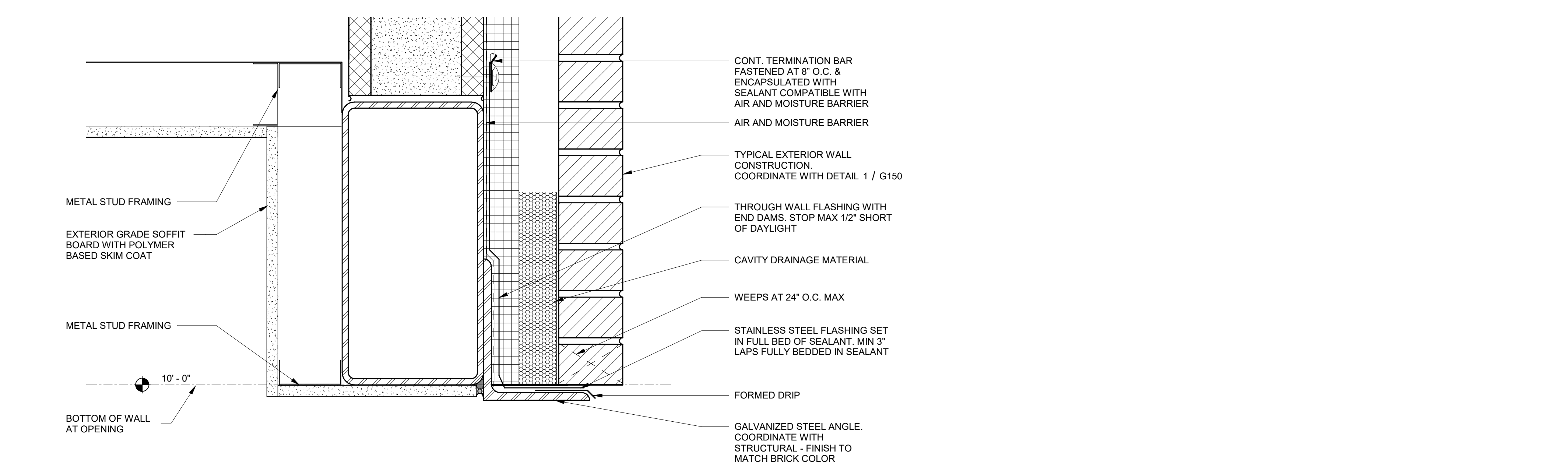
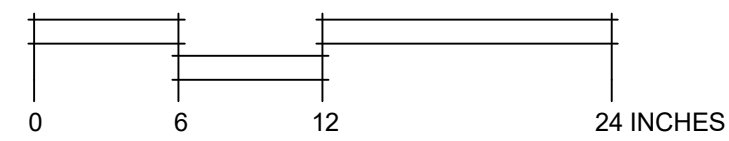
DR. BY	RG, NK
CK. BY	DC, KH
PROJ. NO.	A01122
DATE	03/03/23

EXTERIOR SECTION DETAILS

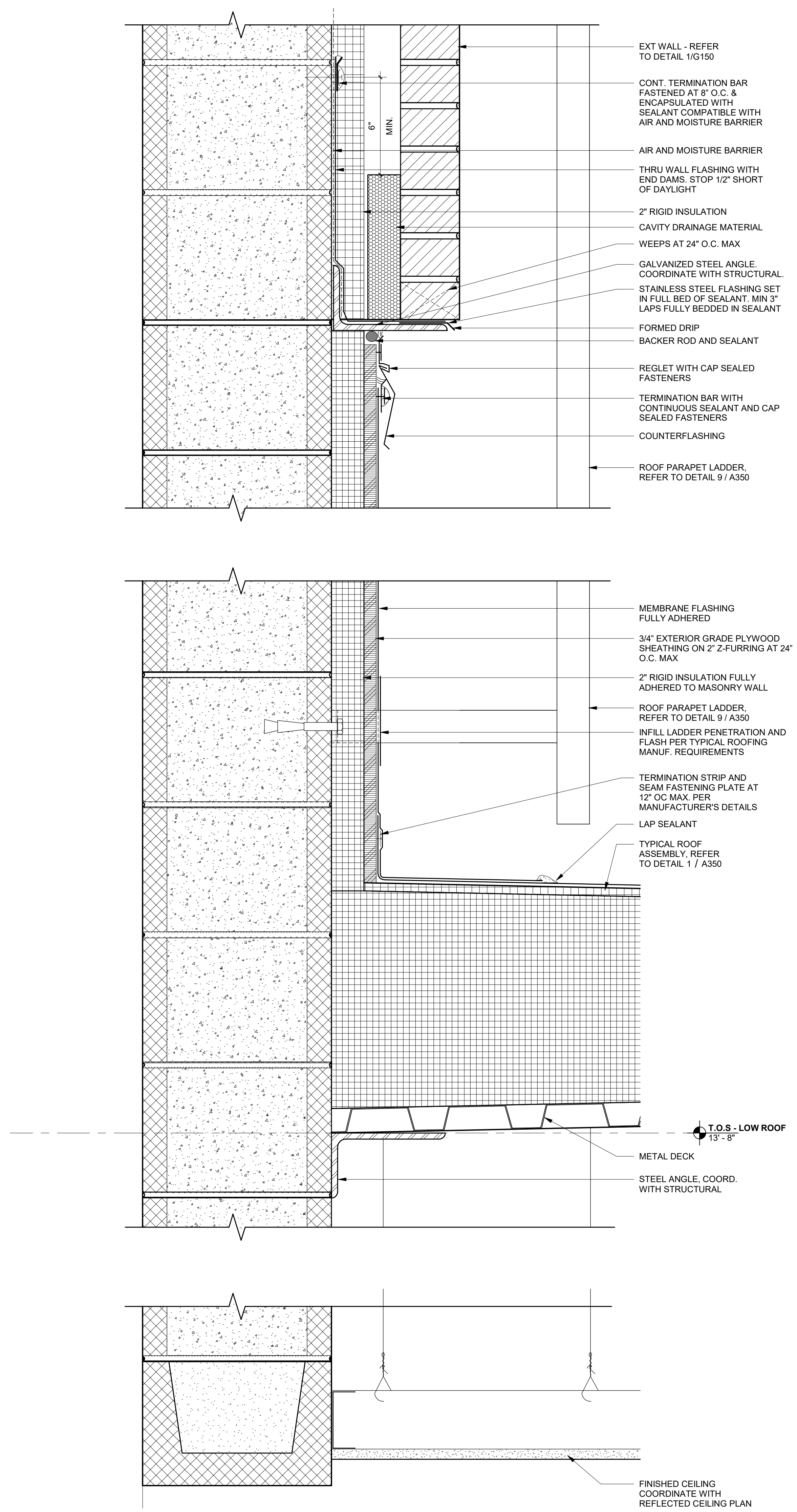
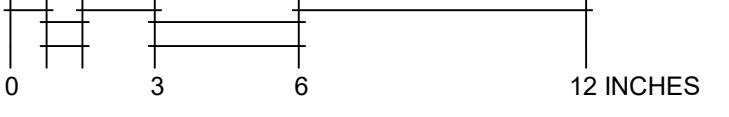
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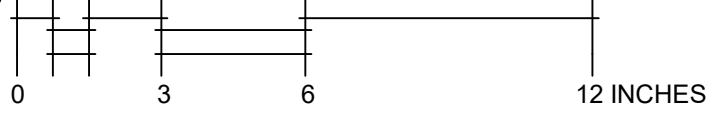
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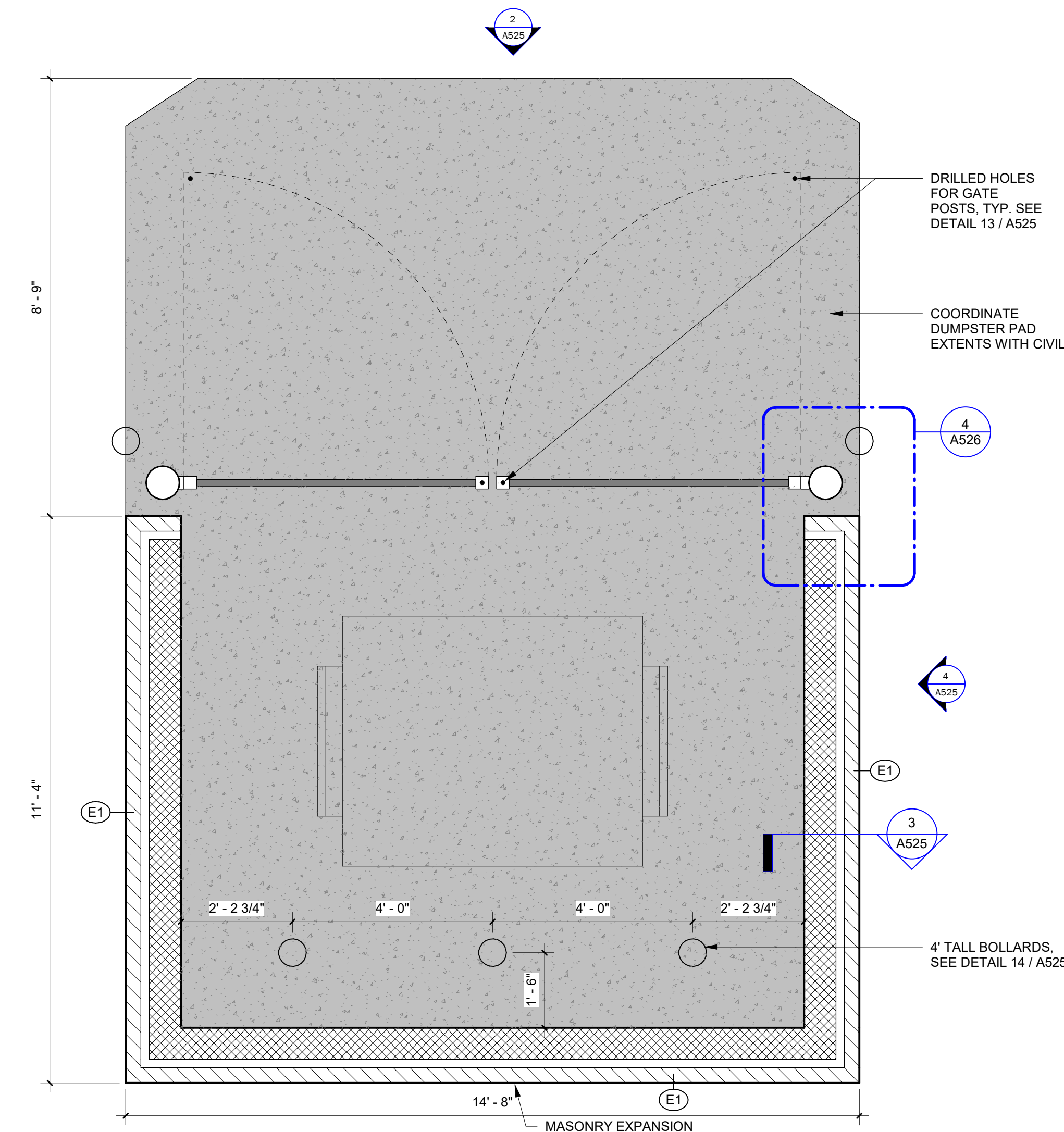


2 HEAD AT BACK PORCH OPENING

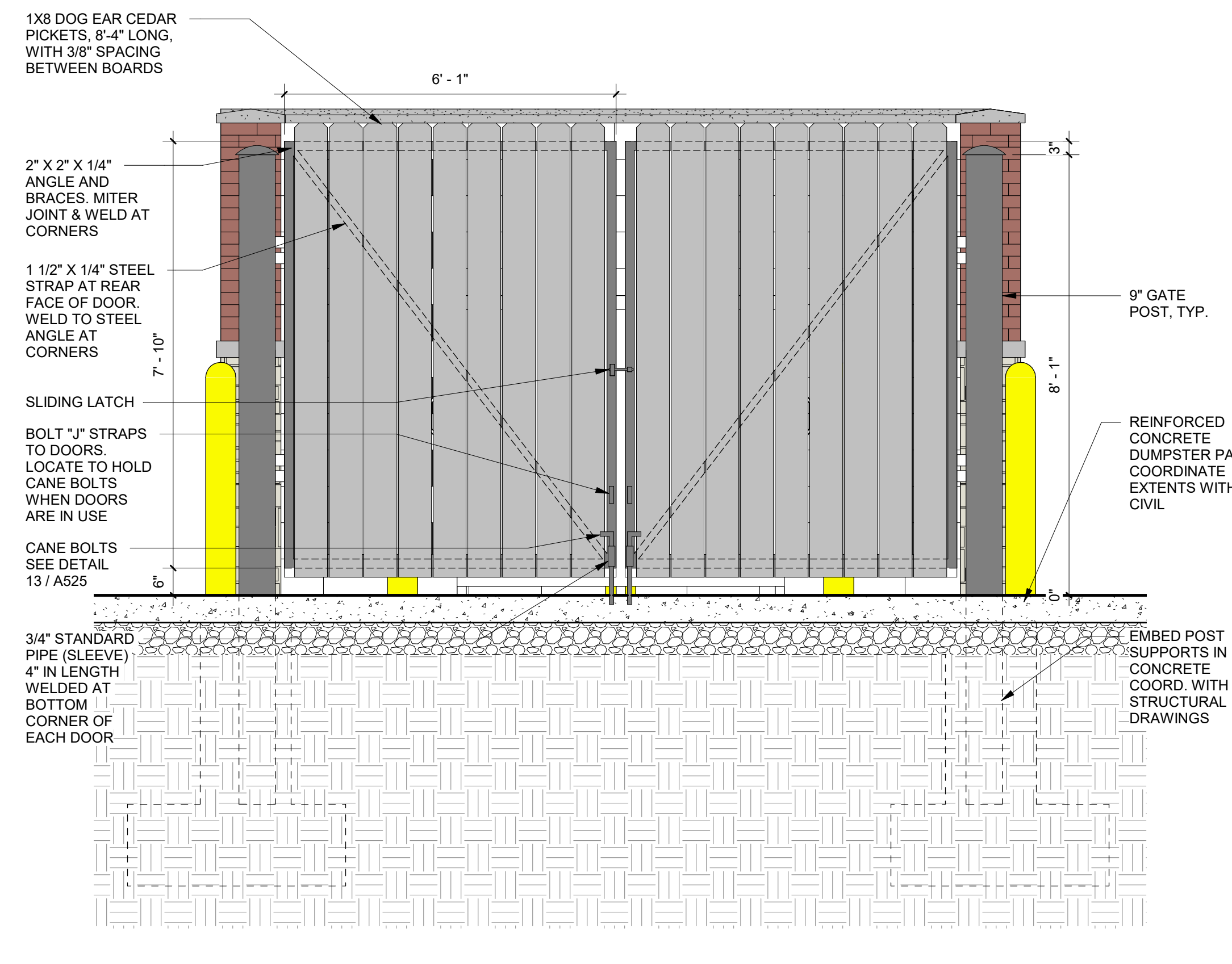
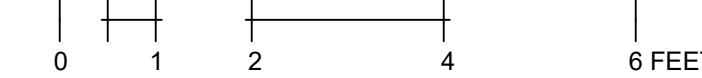


3 LOW ROOF TO HIGH BAY CONNECTION

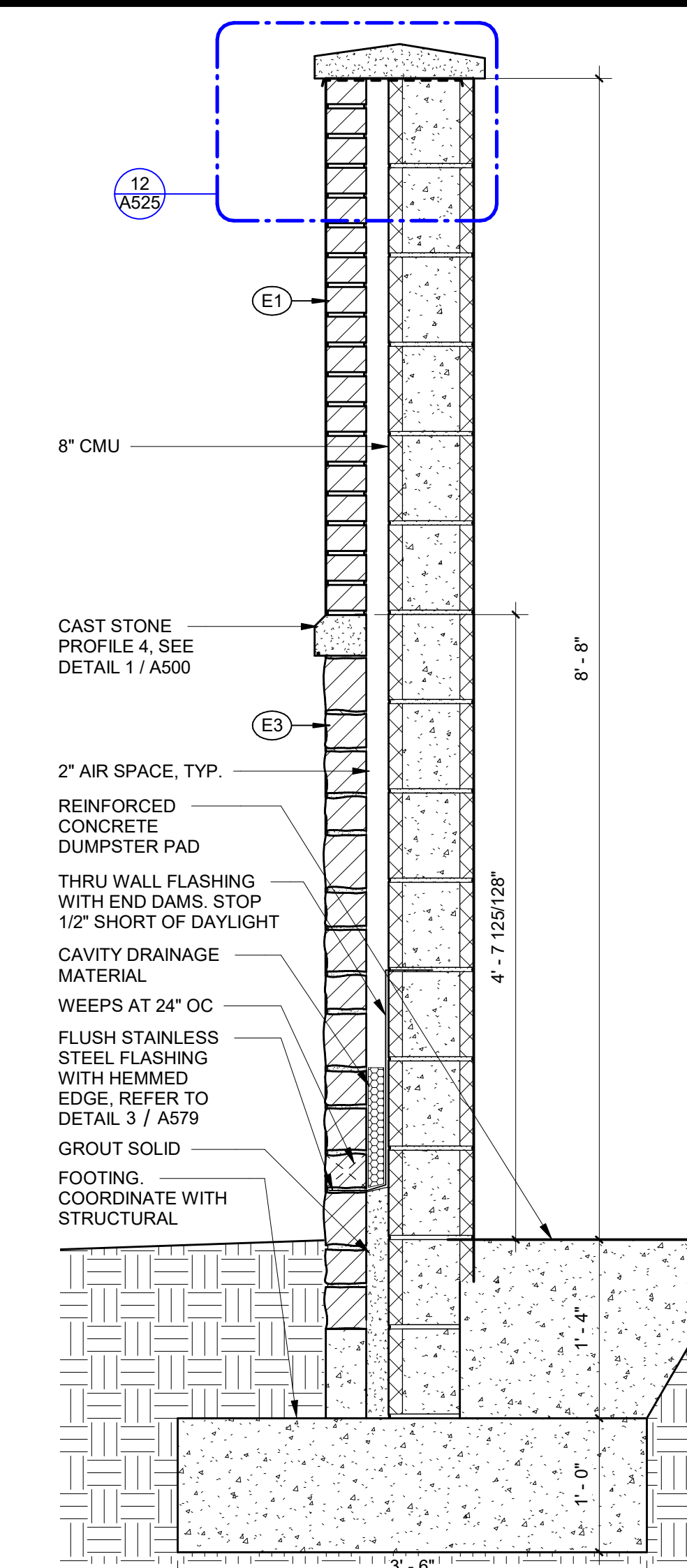




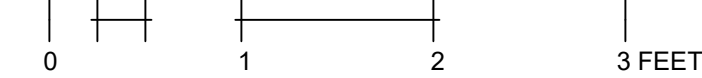
1 DUMPSTER ENCLOSURE - PLAN



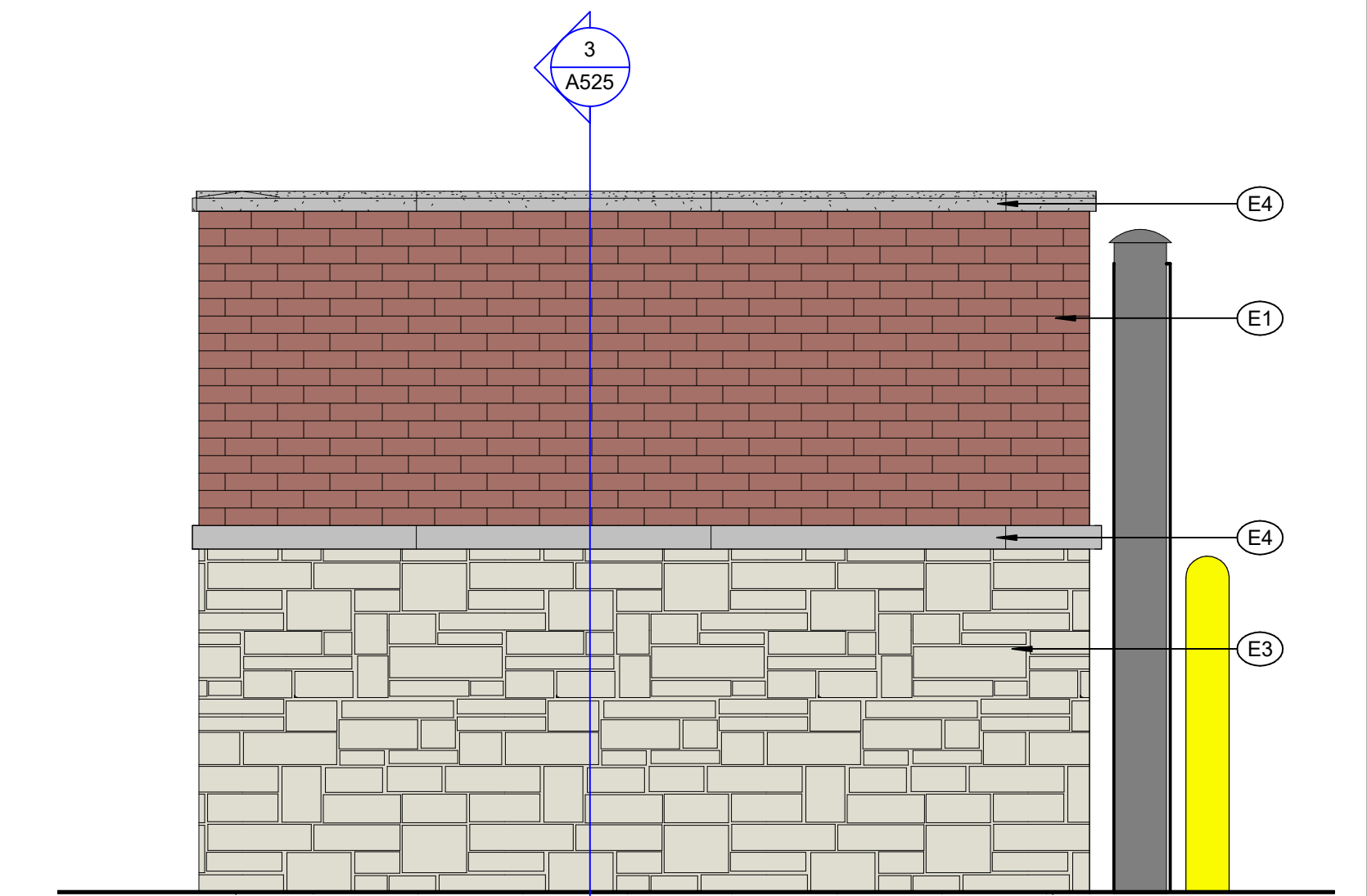
2 DUMPSTER ENCLOSURE - ELEVATION



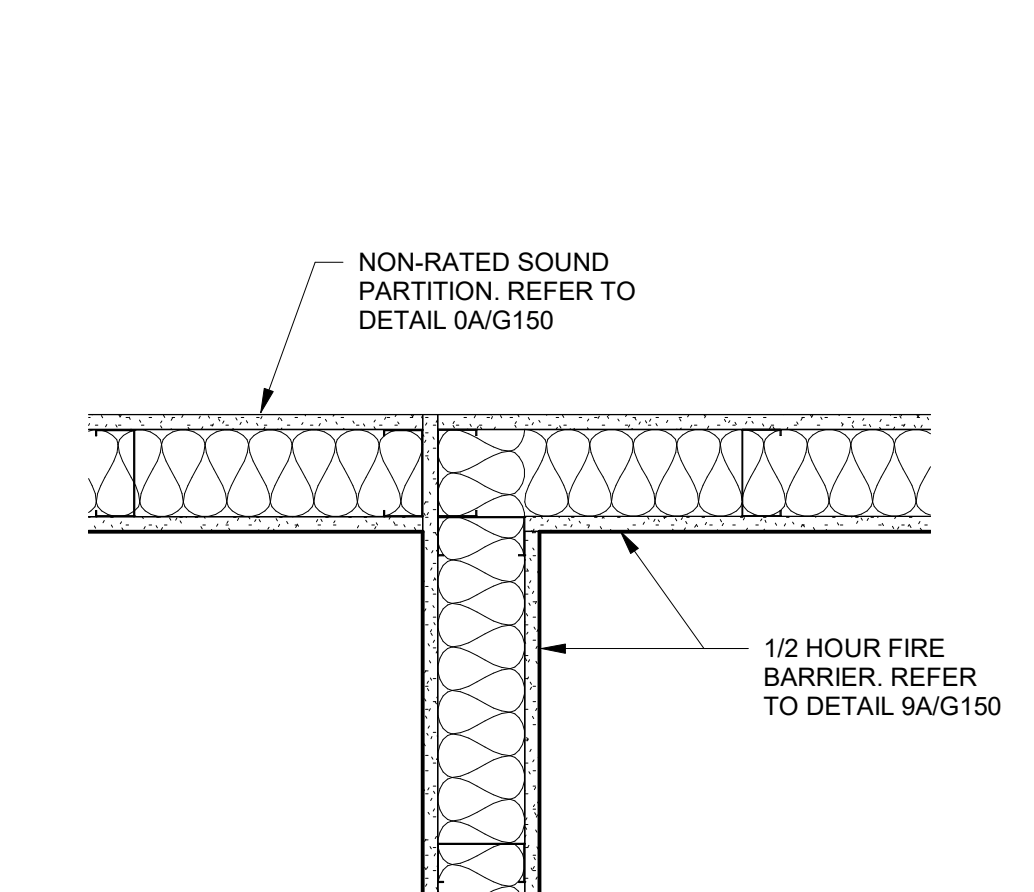
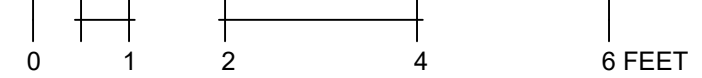
3 SECTION - DUMPSTER



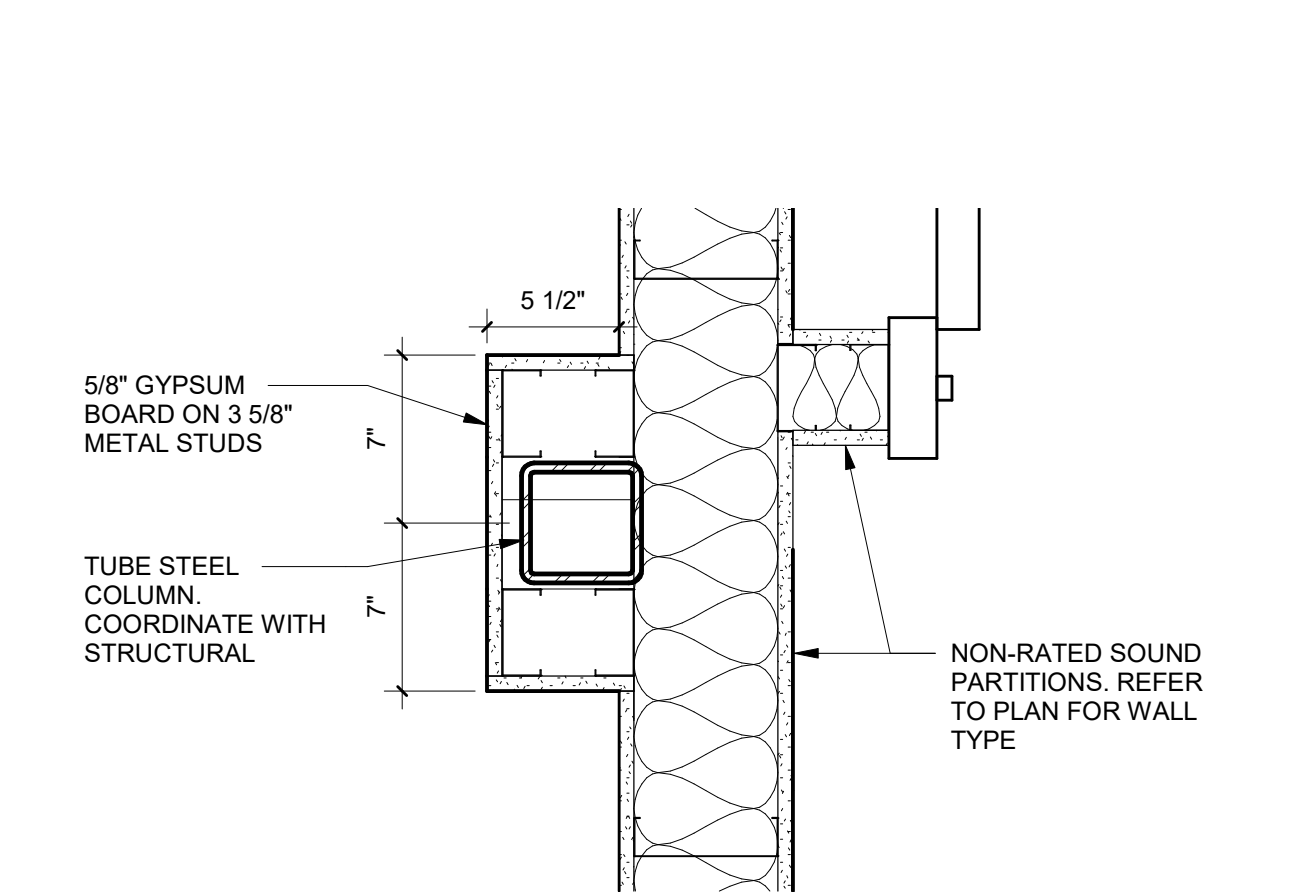
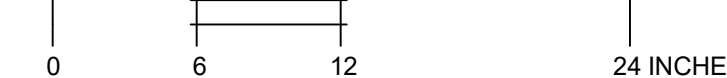
KEYNOTES - EXTERIOR	
E1	BRICK 1 - GLEN-GERY RAVENNA - MODULAR SIZE - ONE-HALF BOND
E2	BRICK 1 - SOLDIER COURSE
E3	CALCIUM SILICATE MANUFACTURED BUILDING STONE 1 - ARRISCRAFT INTERNATIONAL ROCKED MAGNOLIA
E4	CAST STONE
E5	CAST STONE CORNICE
E6	CAST STONE KEystone, PROFILE 5
E7	FIBERGLASS-FRAMED FIXED WINDOW
E8	FIBERGLASS-FRAMED SINGLE-HUNG WINDOW
E9	ALUMINUM STOREFRONT
E10	EXTRUDED ALUMINUM CANOPY WITH INTEGRAL DRAINAGE
E11	LOUVER - COORDINATE WITH MECHANICAL
E12	EXTERIOR LIGHTS, COORDINATE WITH ELECTRICAL
E13	PREFABRICATED EXTRUDED ALUMINUM COPING
E14	PIPE BOLLARD, COORDINATE WITH CIVIL
E15	MASONRY EXPANSION JOINT
E16	SCUPPER AND DOWNSPOUT
E17	ROOF LADDER
E18	ROOF LADDER
E19	ALUMINUM STOREFRONT MUNTIN (CENTERED IN BOTH DIRECTIONS)



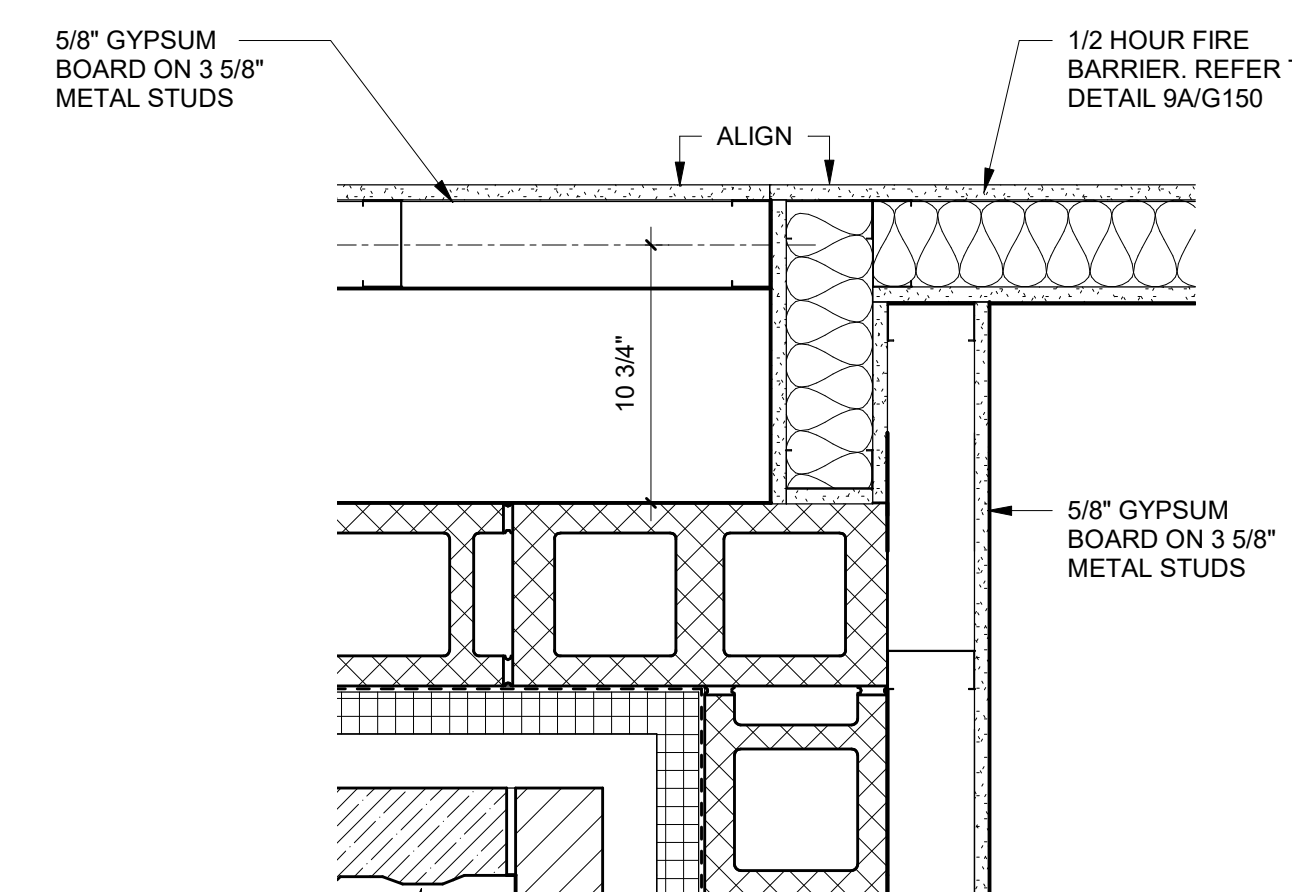
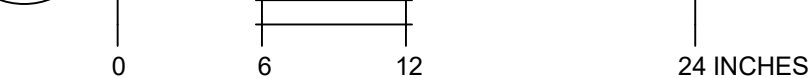
4 DUMPSTER ENCLOSURE - SIDE ELEVATION



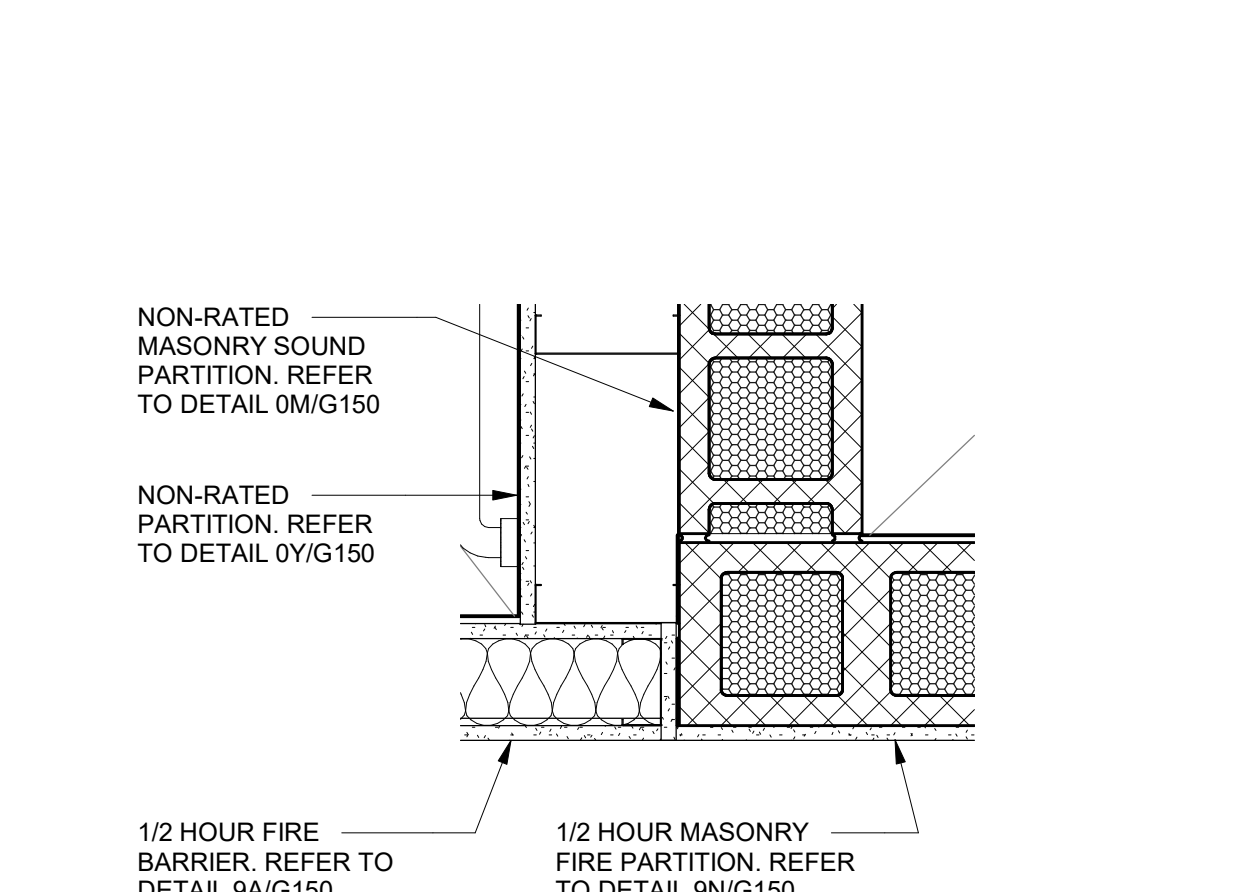
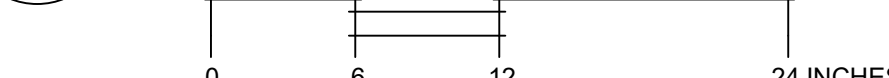
5 100 VESTIBULE



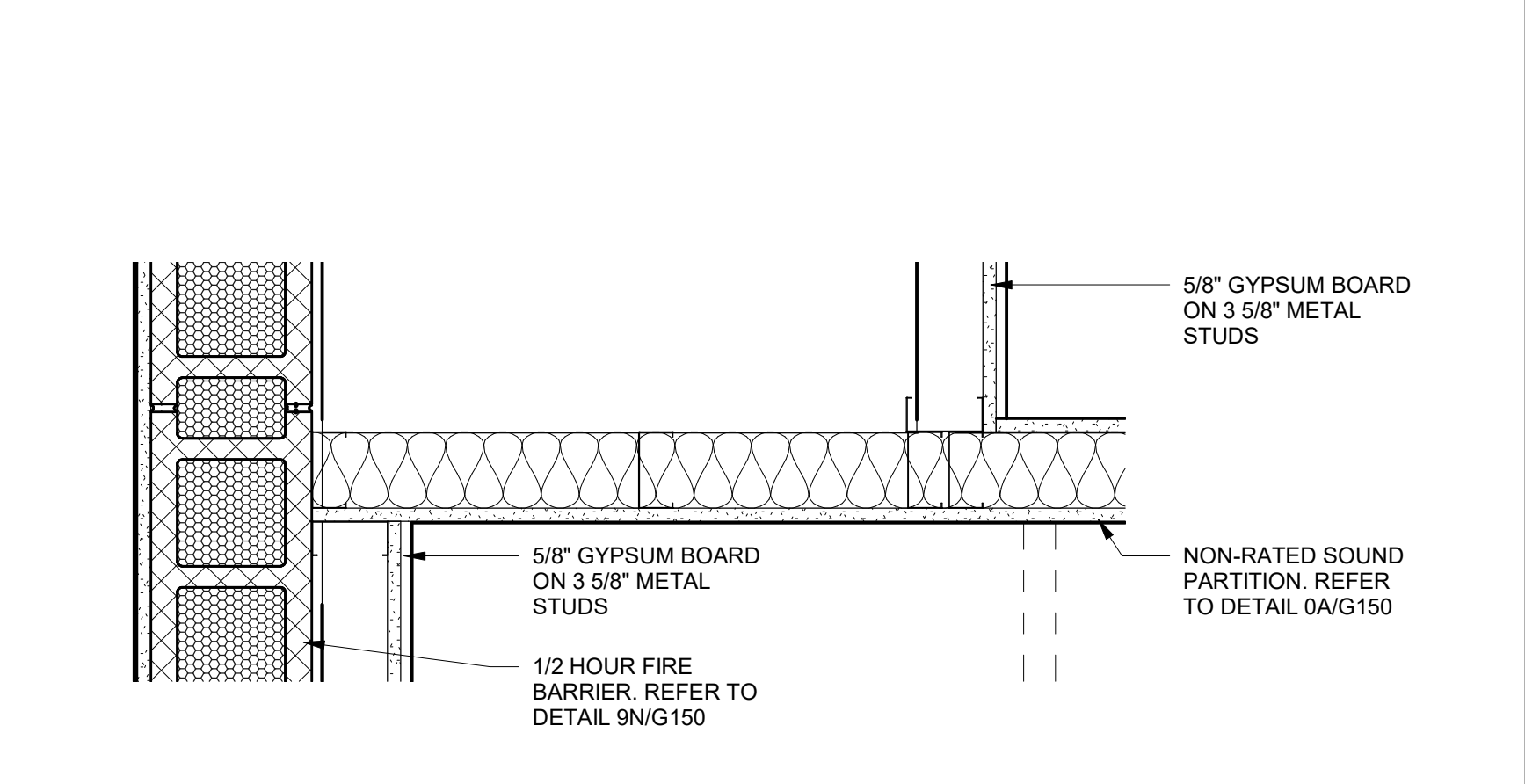
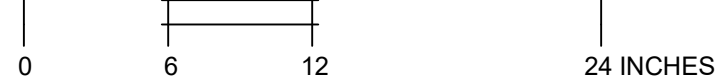
6 101 WORK/STUDY



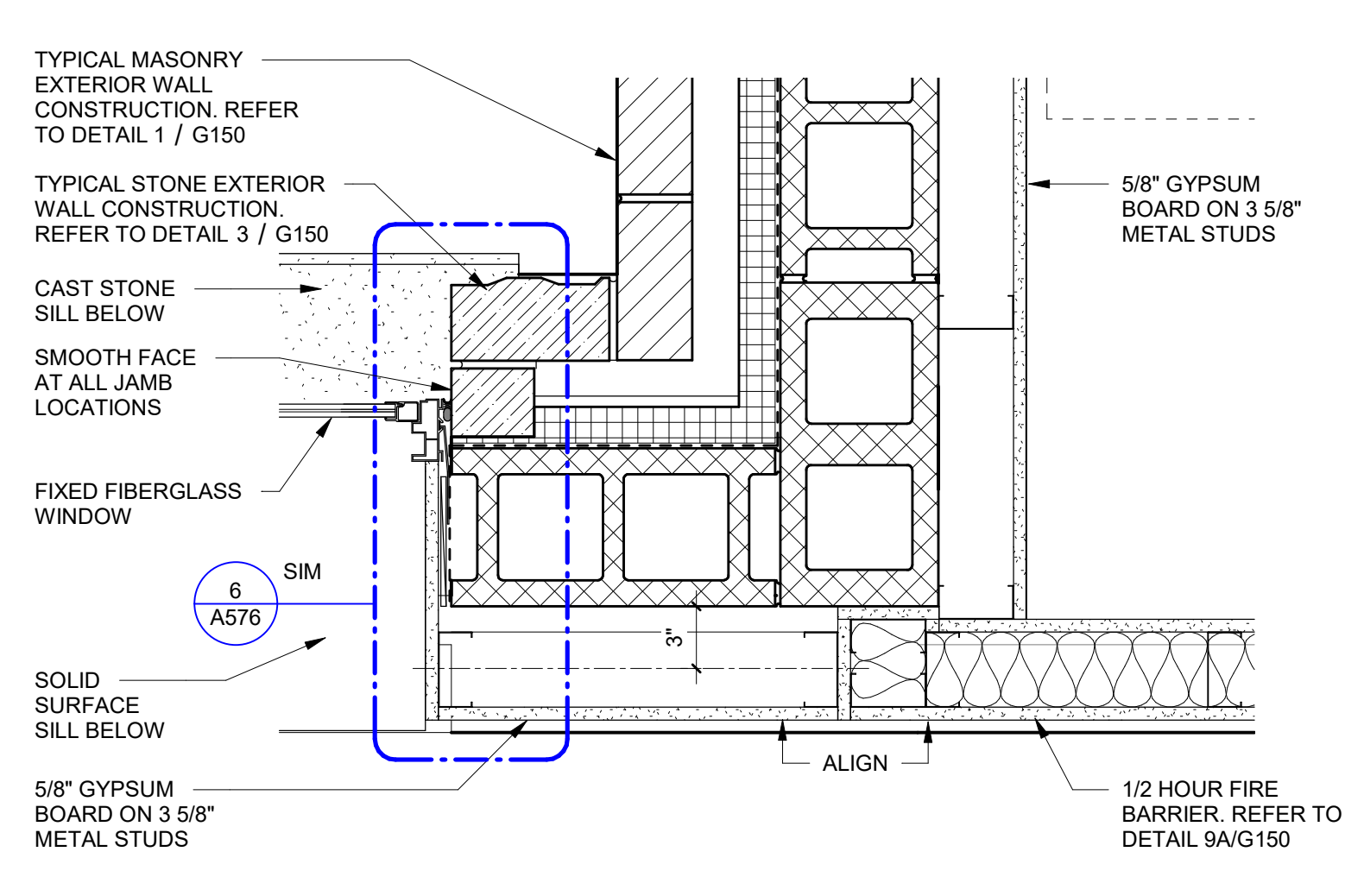
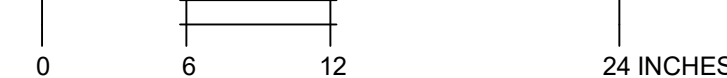
7 117 CAPTAIN BUNK/OFFICE



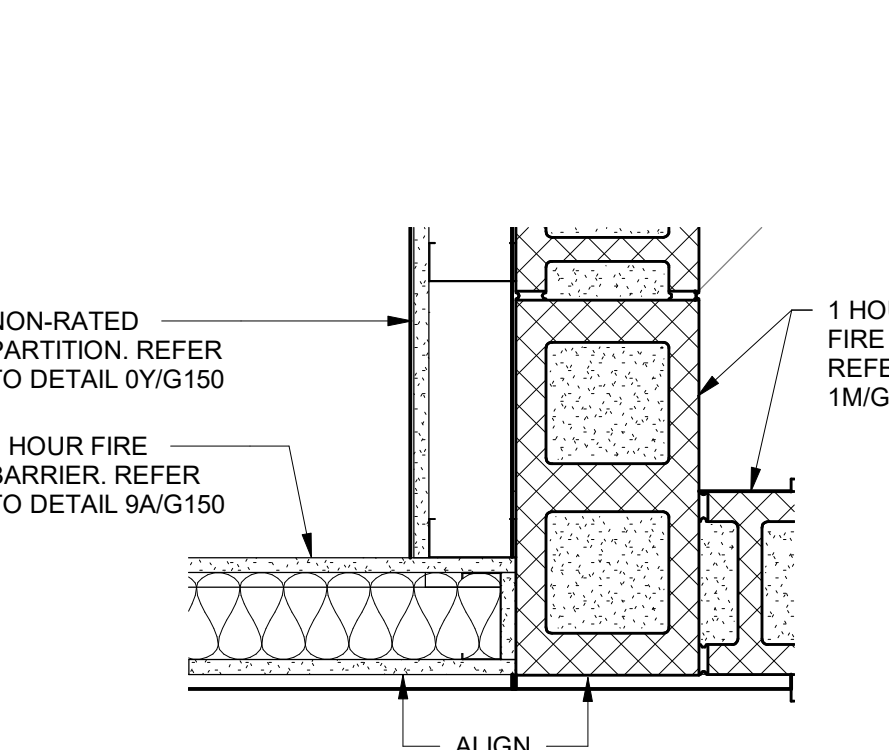
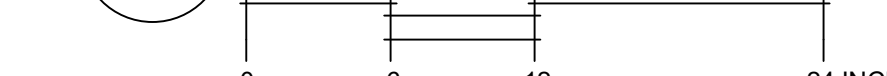
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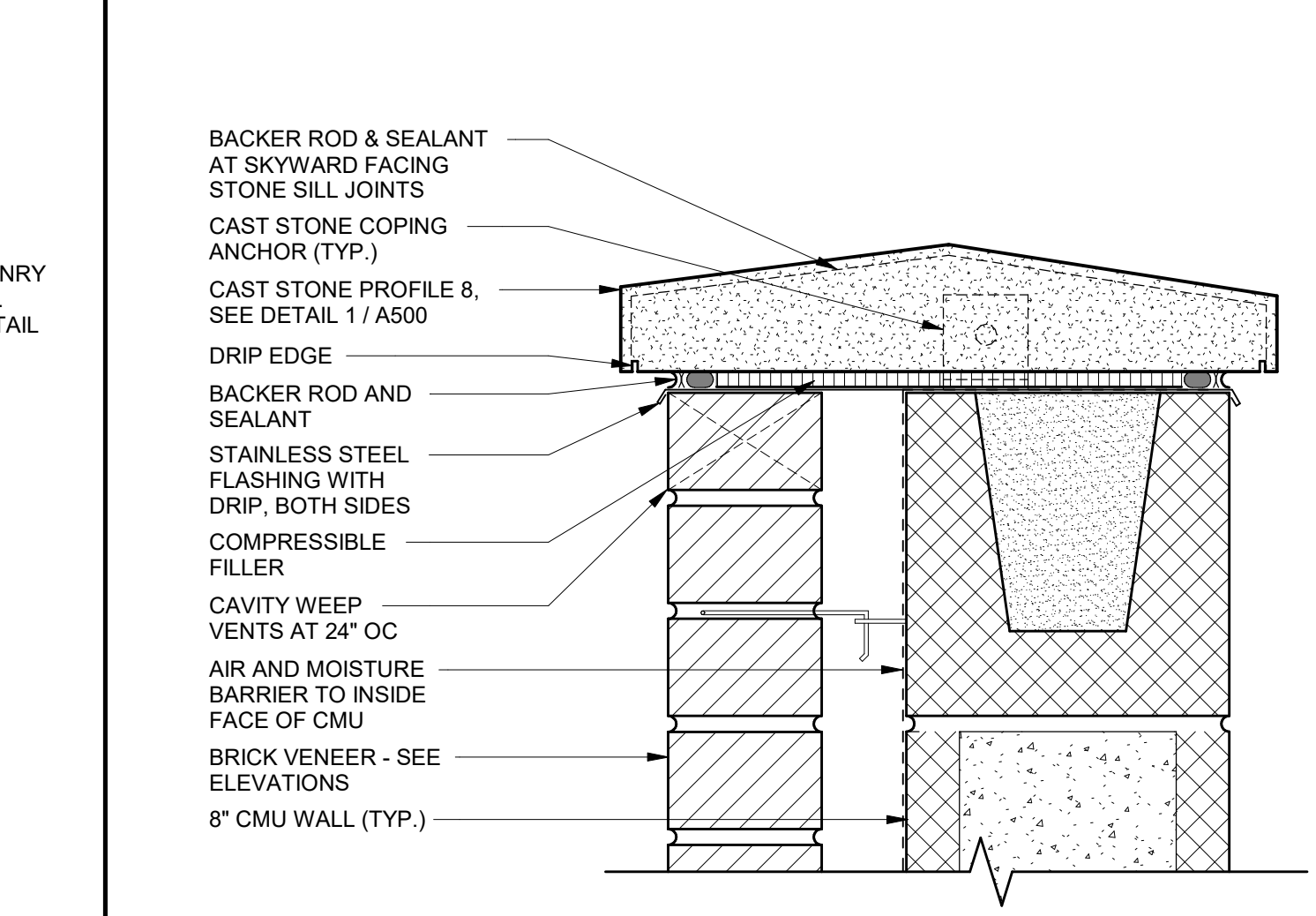
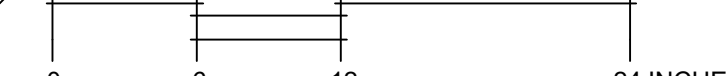
9 130 M. LOCKER



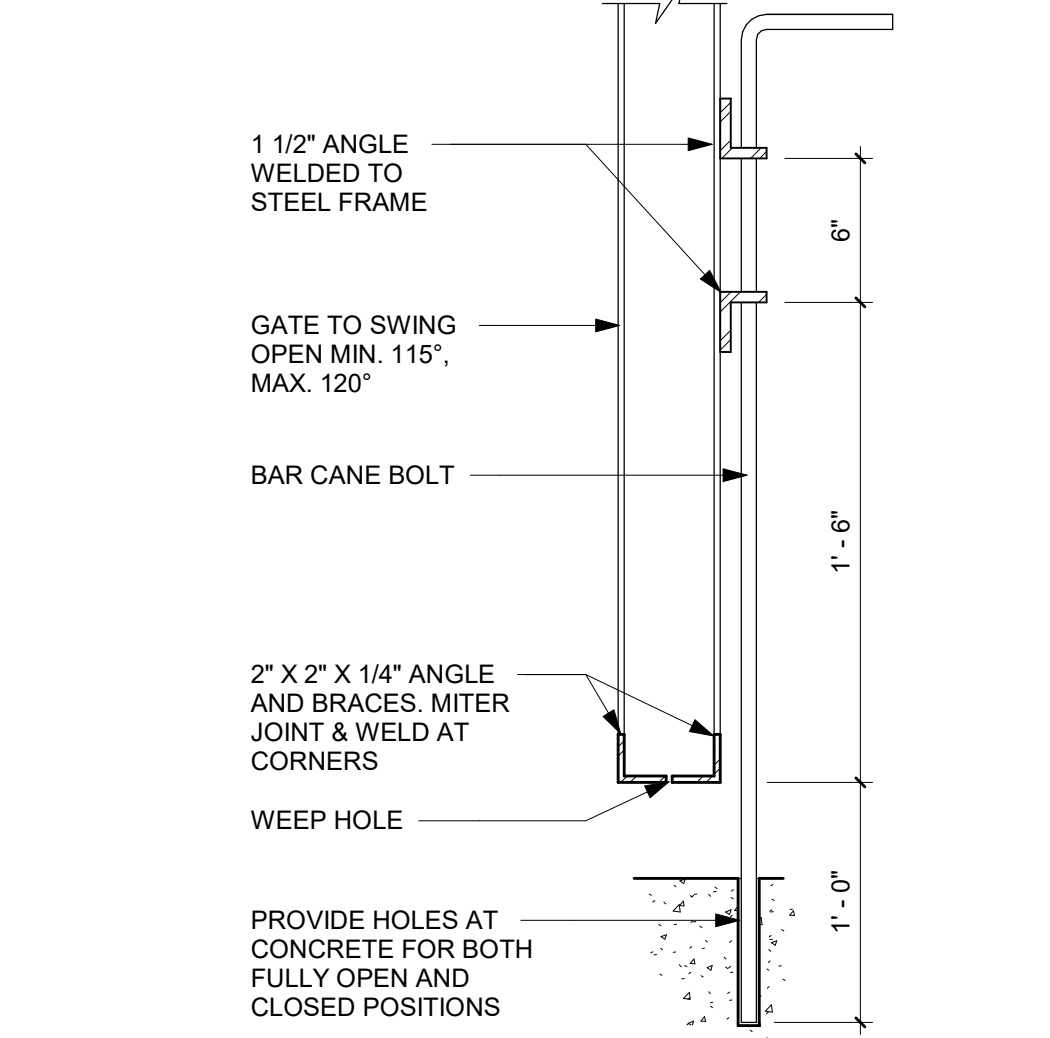
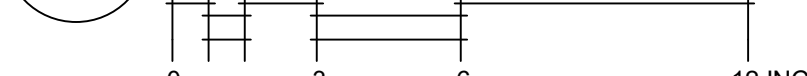
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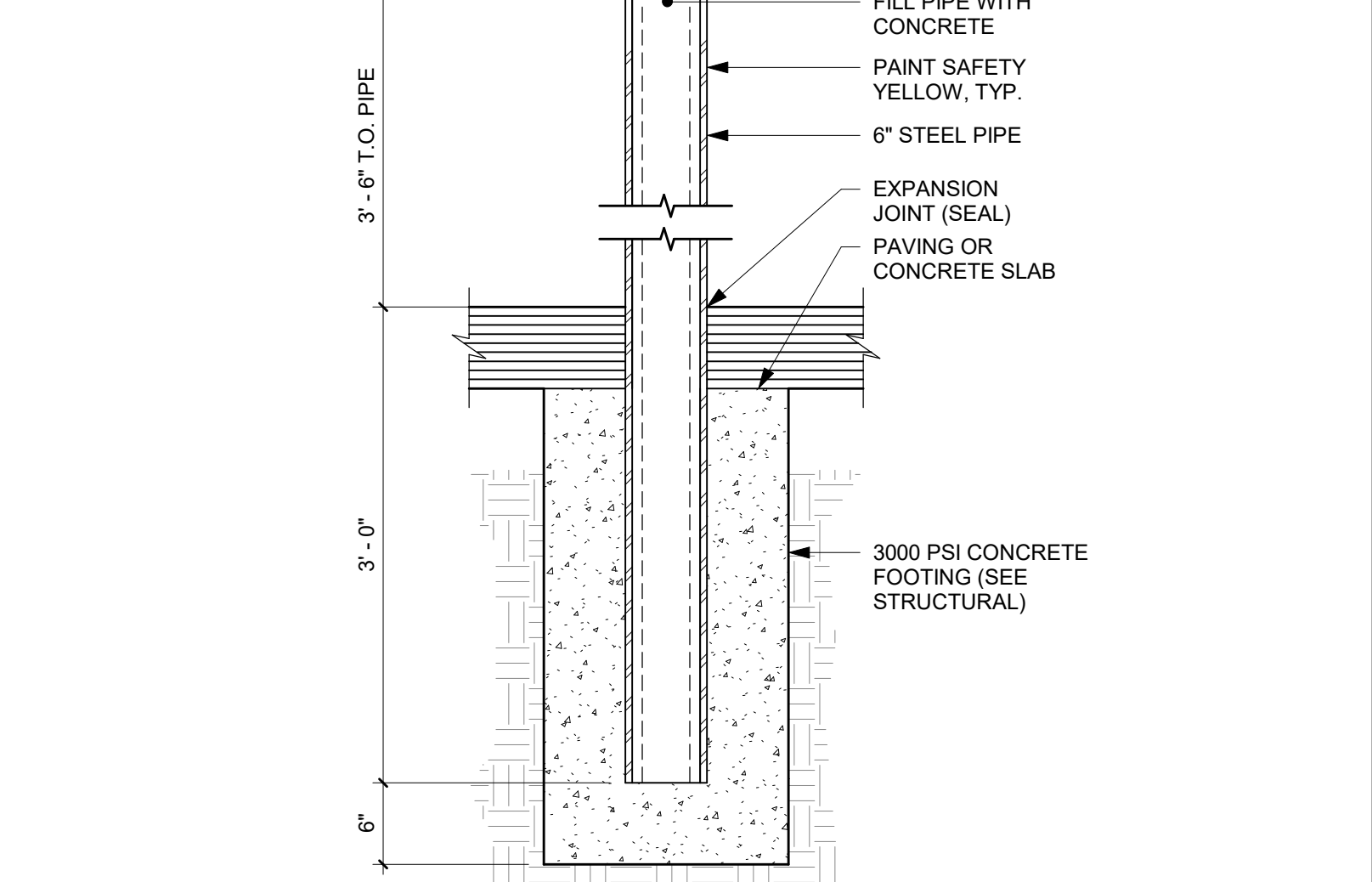
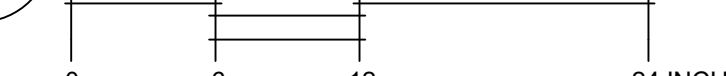
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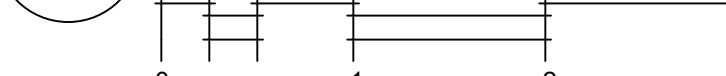
12 DUMPSTER ENCLOSURE COPING



13 SECTION AT CANE BOLT

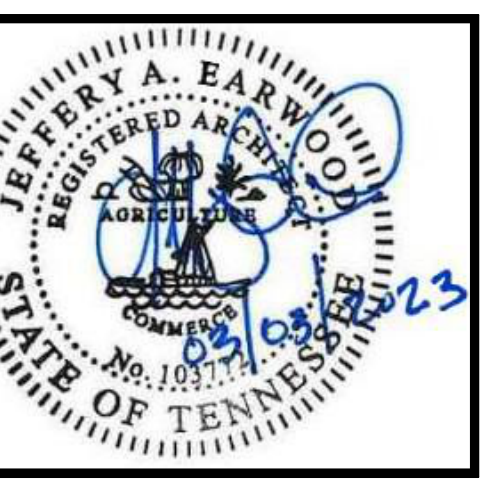


14 TRASH ENCLOSURE BOLLARD



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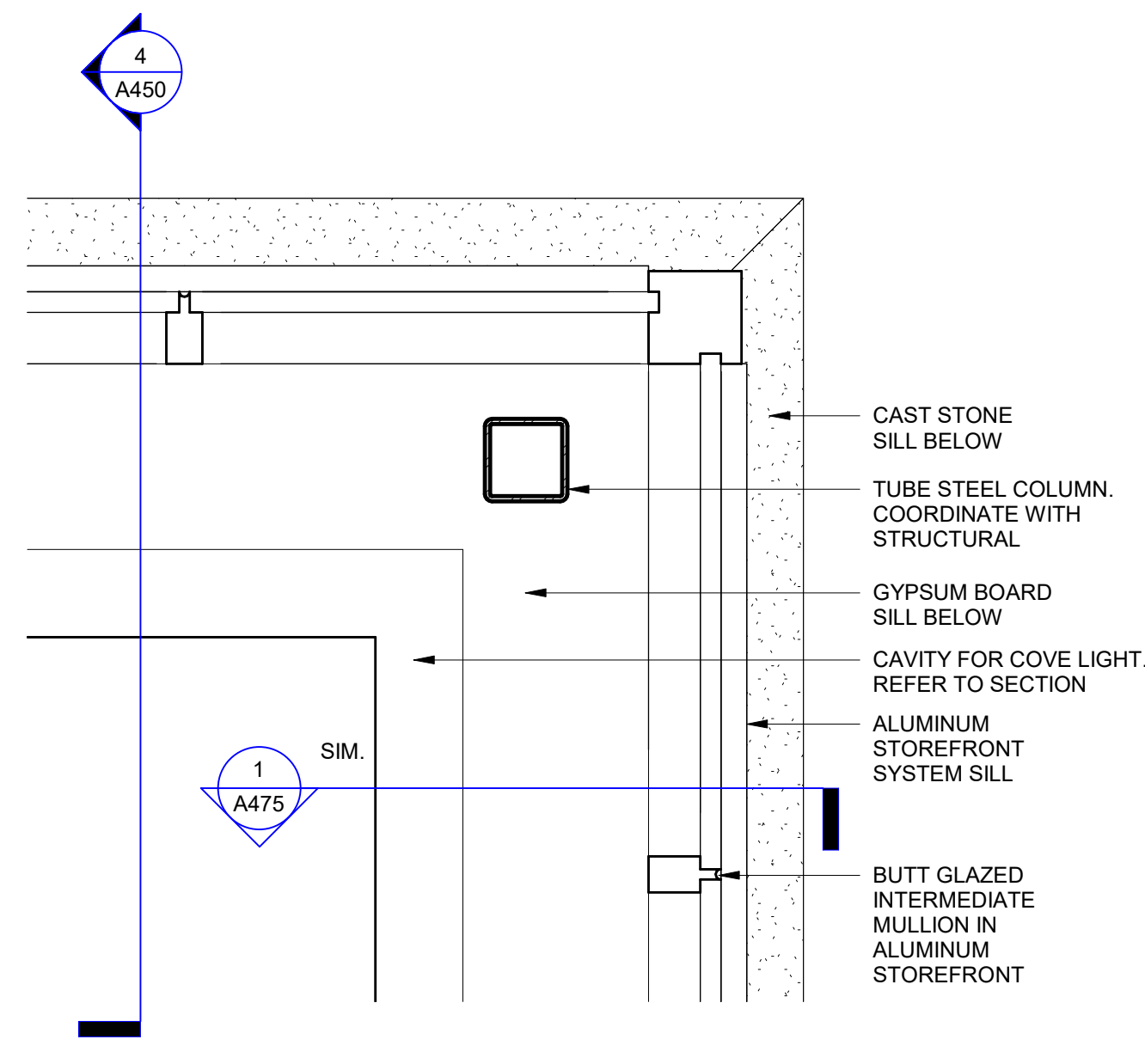


TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE

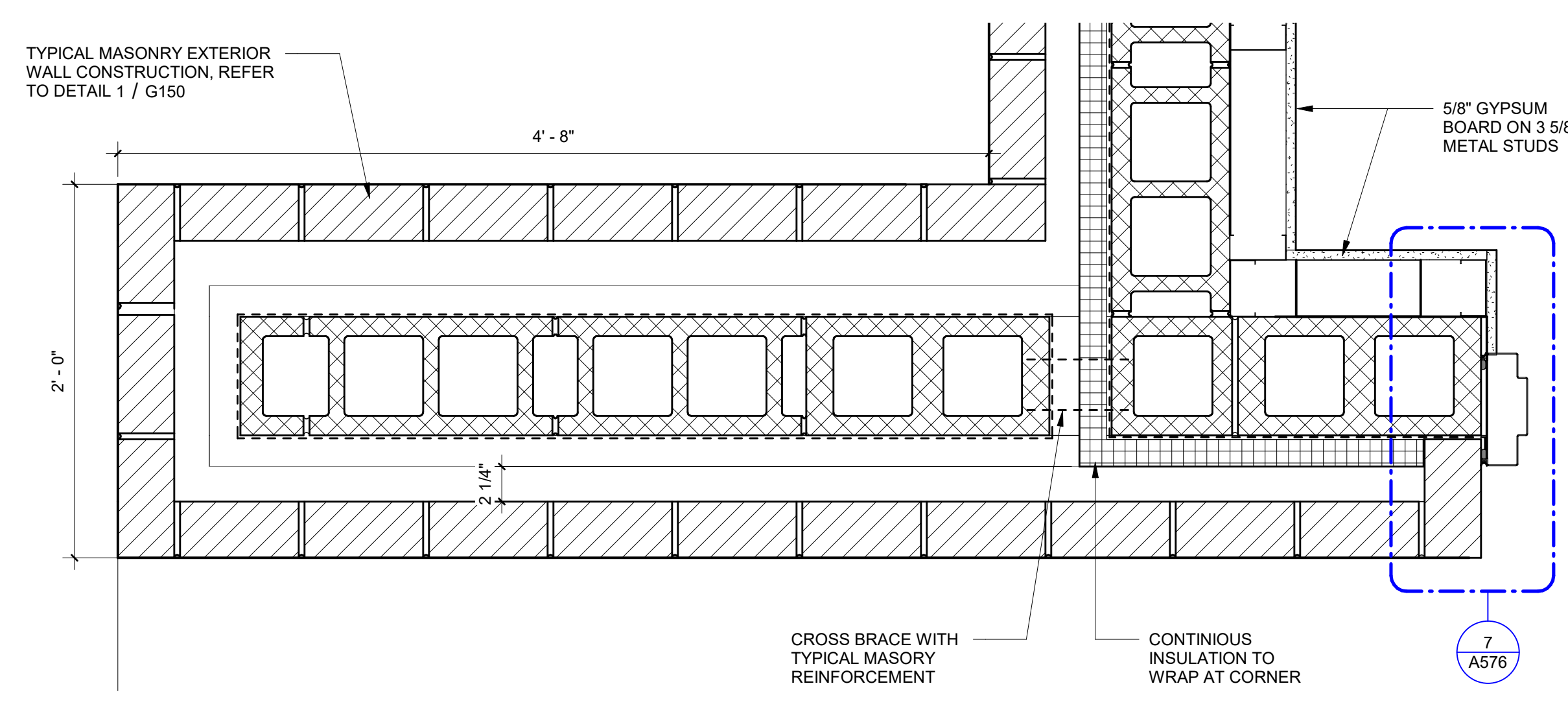
REVISIONS	

DR. BY	DP
CK. BY	LS
PROJ. NO.	A01122
DATE	03/03/23
PLAN DETAILS / DUMPSTER ENCLOSURE	

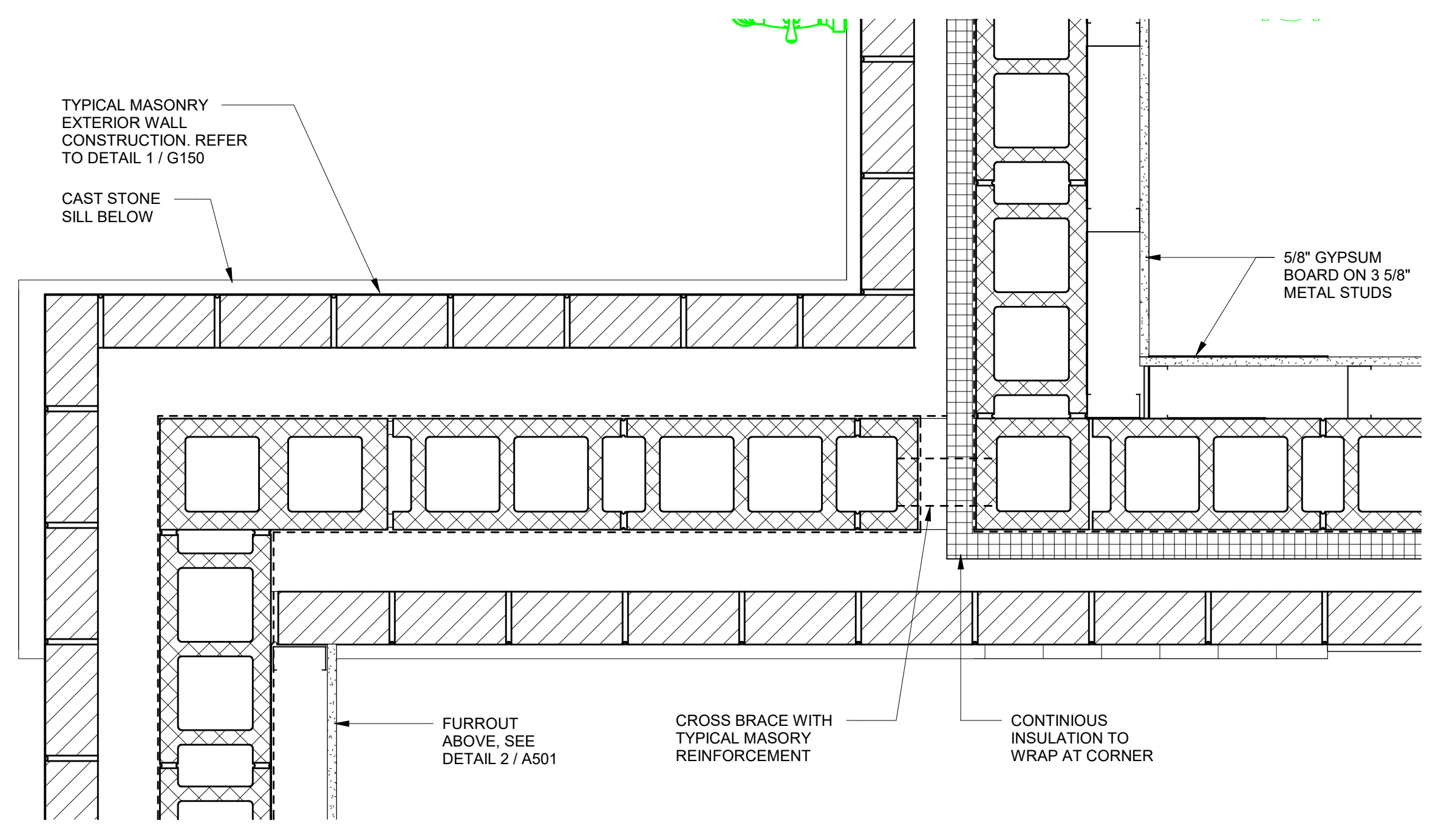
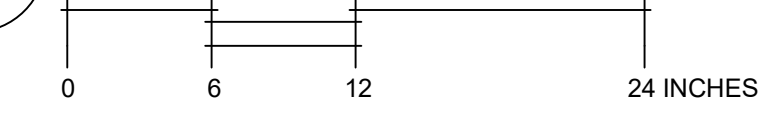
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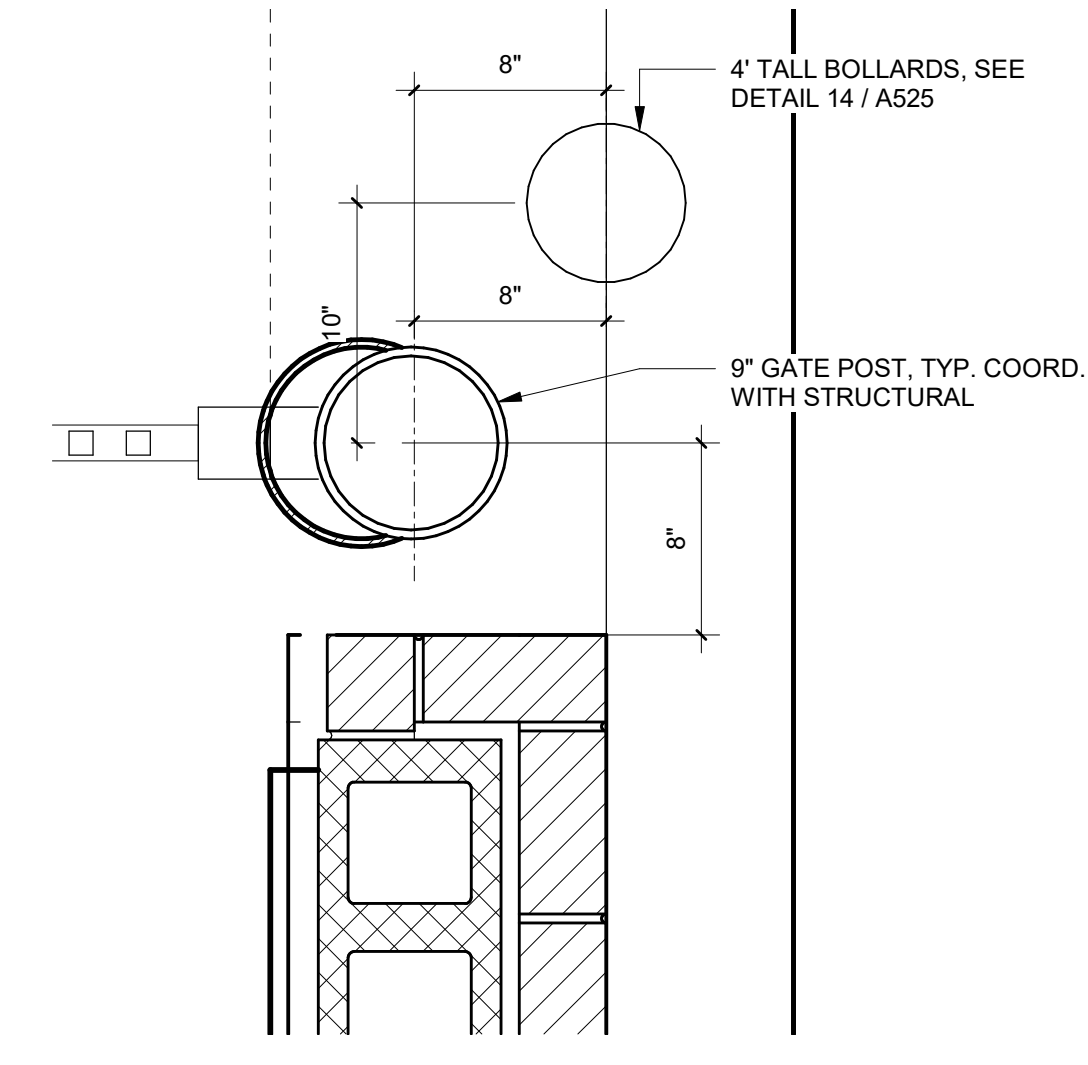
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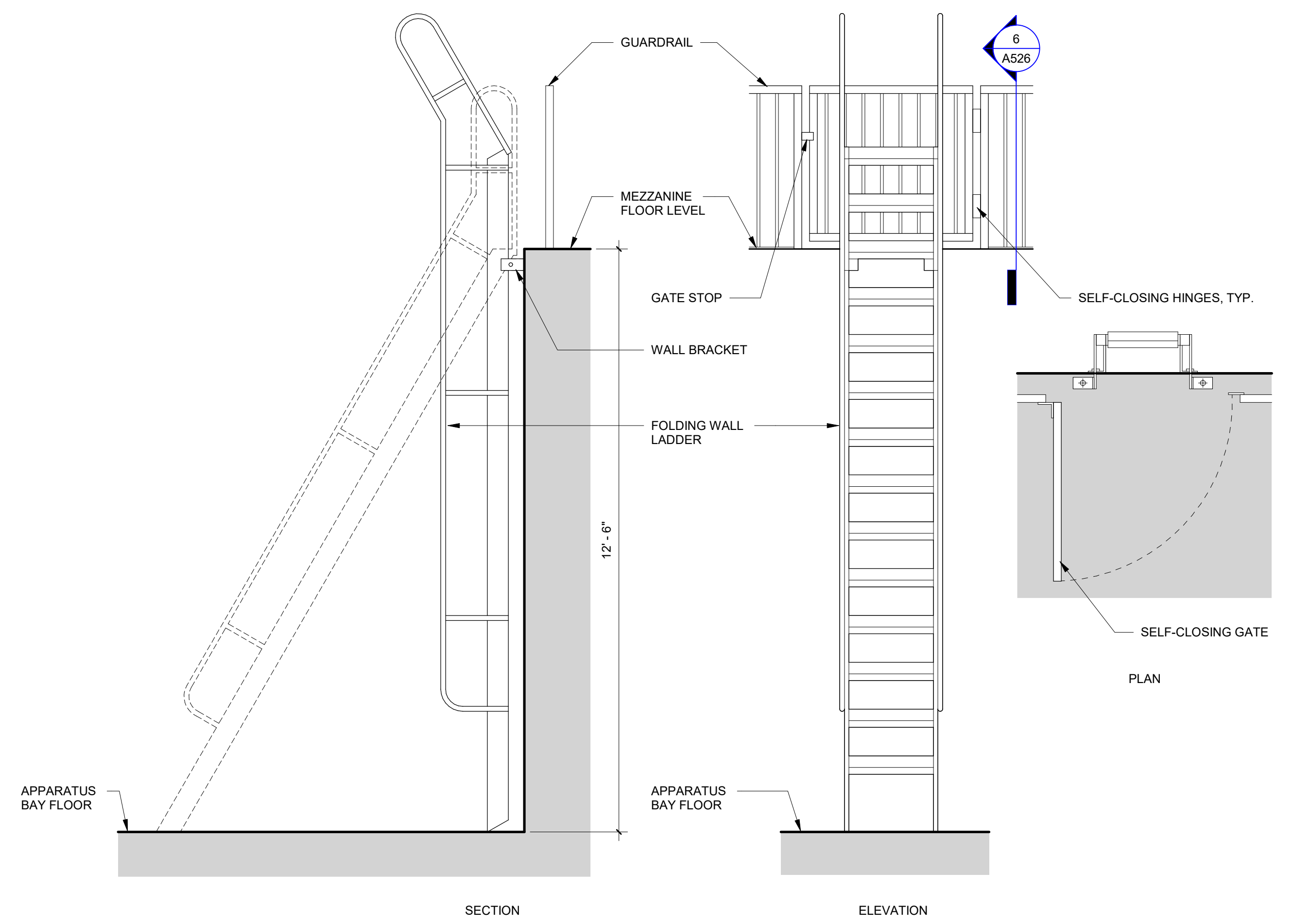
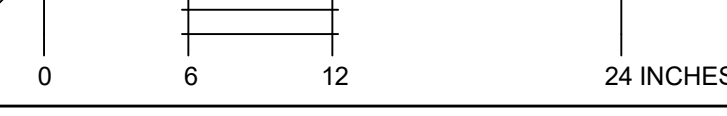
2 116 BACK PORCH



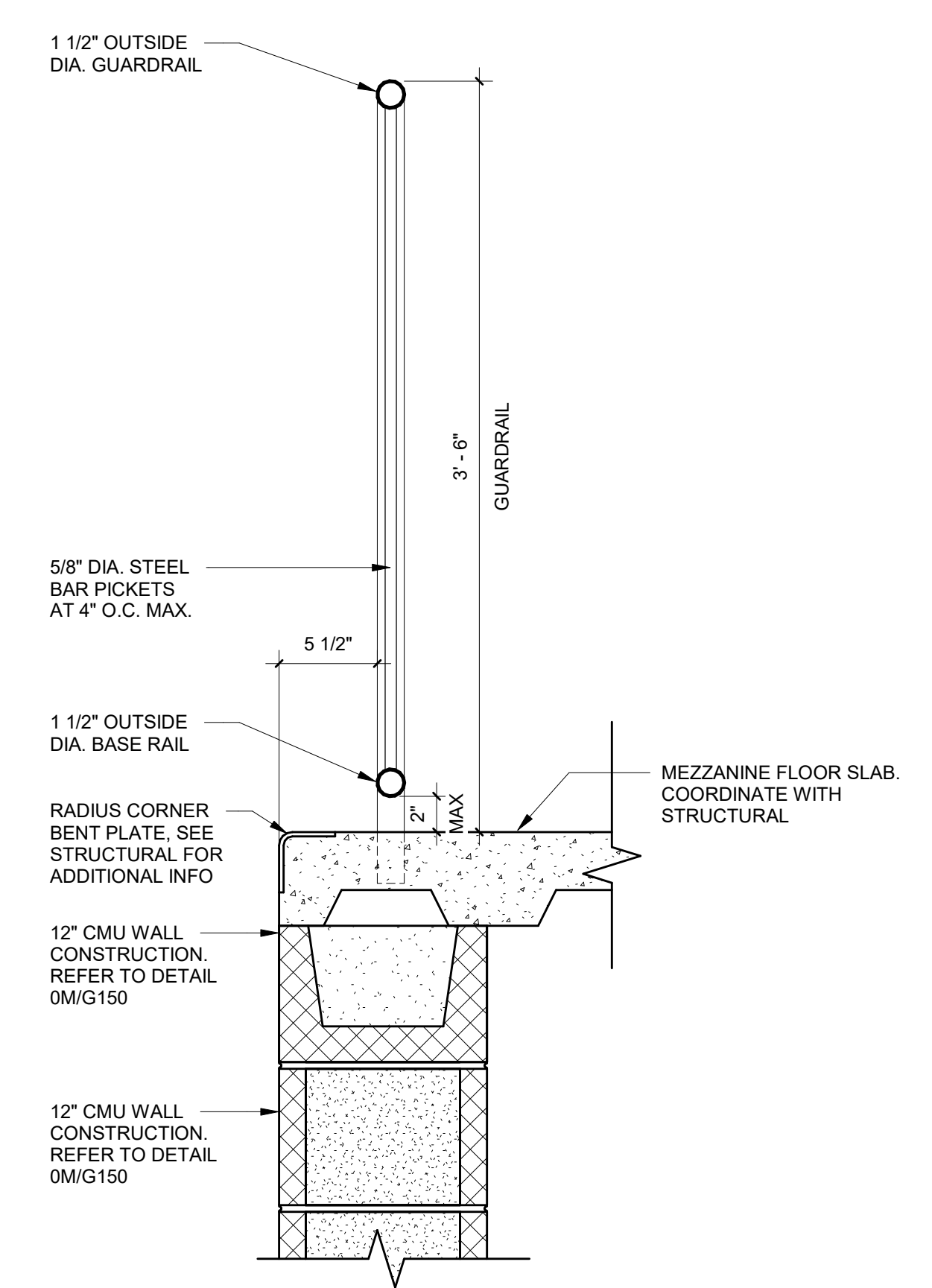
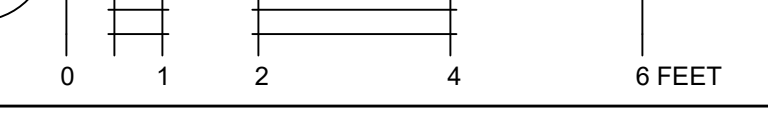
3 116 BACK PORCH - ABOVE



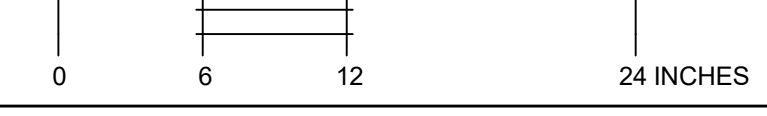
4 DUMPSTER GATE POST



5 MEZZANINE ACCESS LADDER

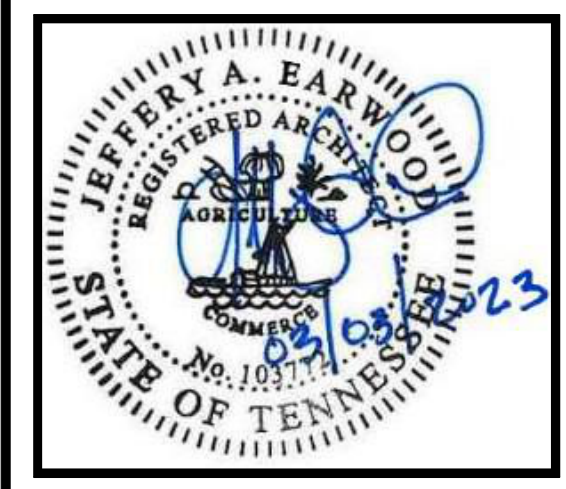


6 DETAIL



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**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

REVISIONS	

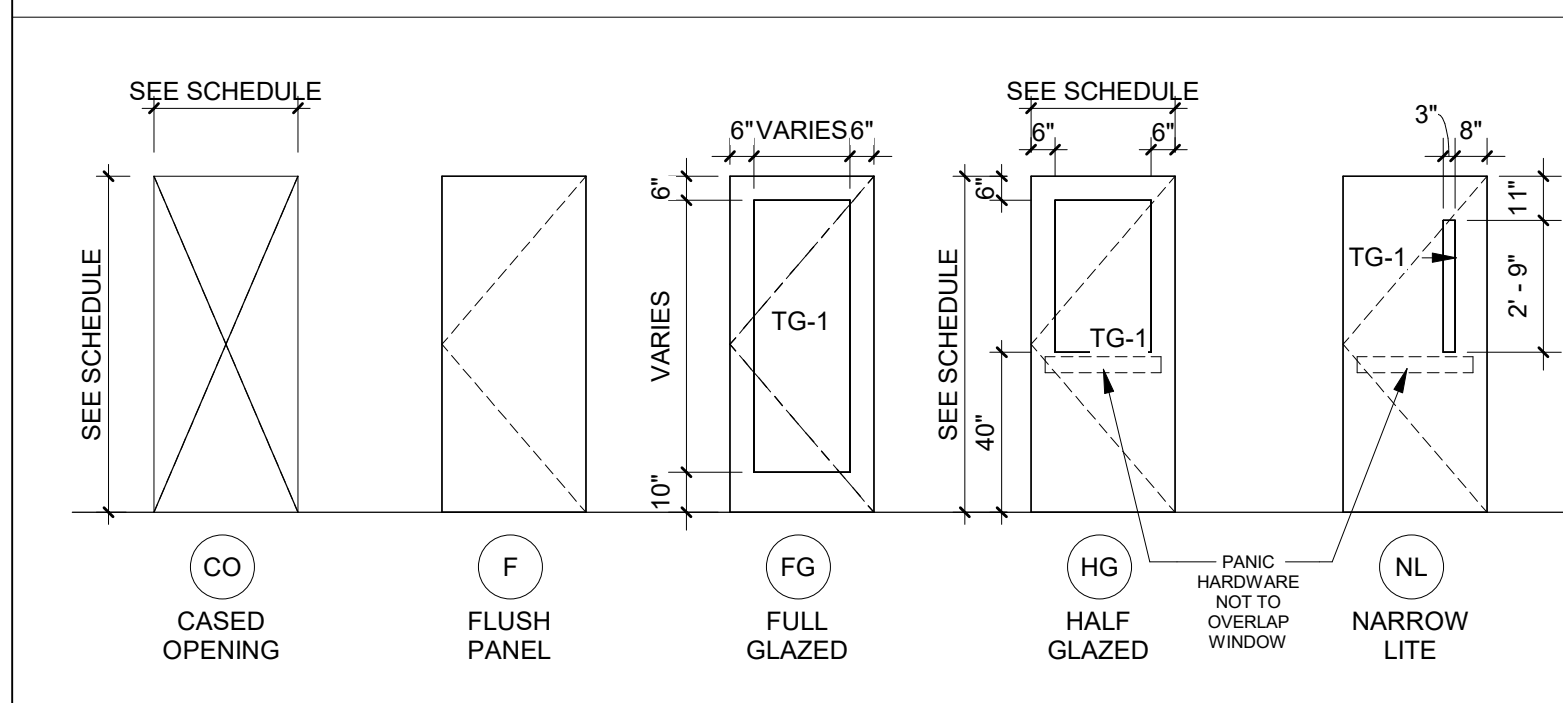
DR. BY	JT
CK. BY	LS
PROJ. NO.	A01122
DATE	03/03/23
PLAN DETAILS / INTERIOR DETAILS	

A526

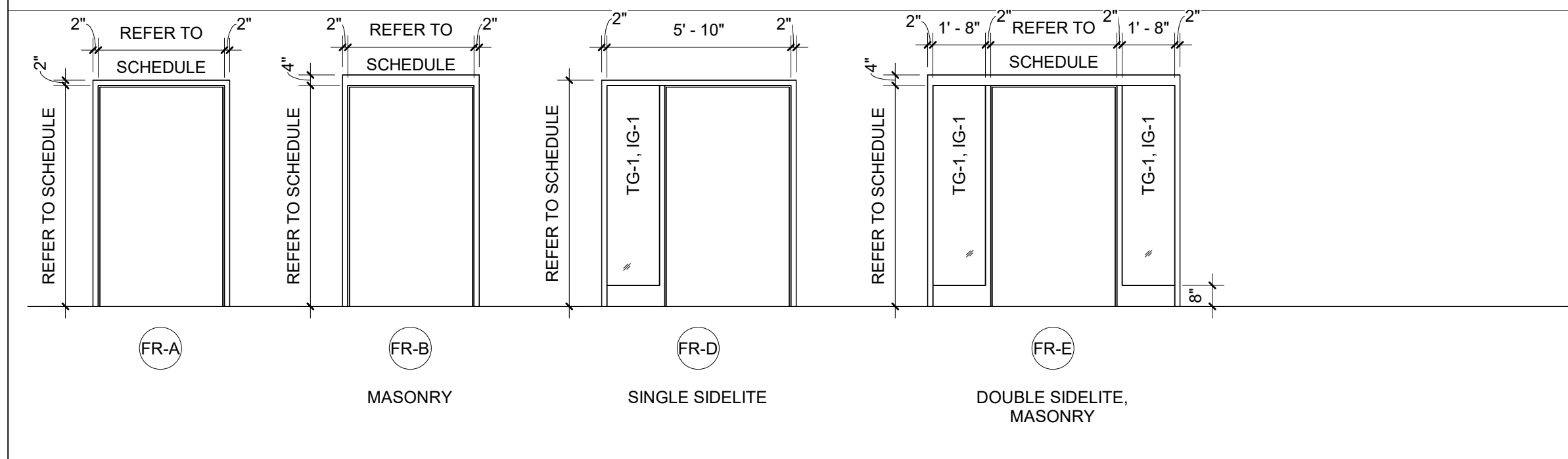
DOOR SCHEDULE-INTERIOR

Table with columns: DOOR NO., WIDTH OVERALL, DOOR TYPE, PANEL 1, PANEL 2, PANEL THICKNESS, MATERIAL, GLASS, FRAME TYPE, MATERIAL, HEAD, JAMB, SILL, FIRE RATING, ACCESS CONTROL 1, ACCESS CONTROL 2, TMP HARDWARE SET, OVERTURE HARDWARE SET, COMMENTS.

PANEL TYPES



FRAME TYPES



DOOR GENERAL NOTES

- 1. DIMENSIONS ARE SIZE OF OPENING AFTER STOPS ARE INSTALLED... 2. DOOR CONSTRUCTION SHALL MEET REQUIRED RATINGS SHOWN ON DRAWINGS AND AS SPECIFIED AND REQUIRED BY THE GOVERNING AUTHORITIES...

DOOR RATING NOTES

- 1. THE CONTRACTOR SHALL COORDINATE WALL AND DOOR RATINGS. NOTIFY THE ARCHITECT IF THERE ARE ANY DISCREPANCIES... 2. DOORS LOCATED IN SMOKE BARRIERS ARE REQUIRED TO BE 20 MINUTE RATED DOORS...

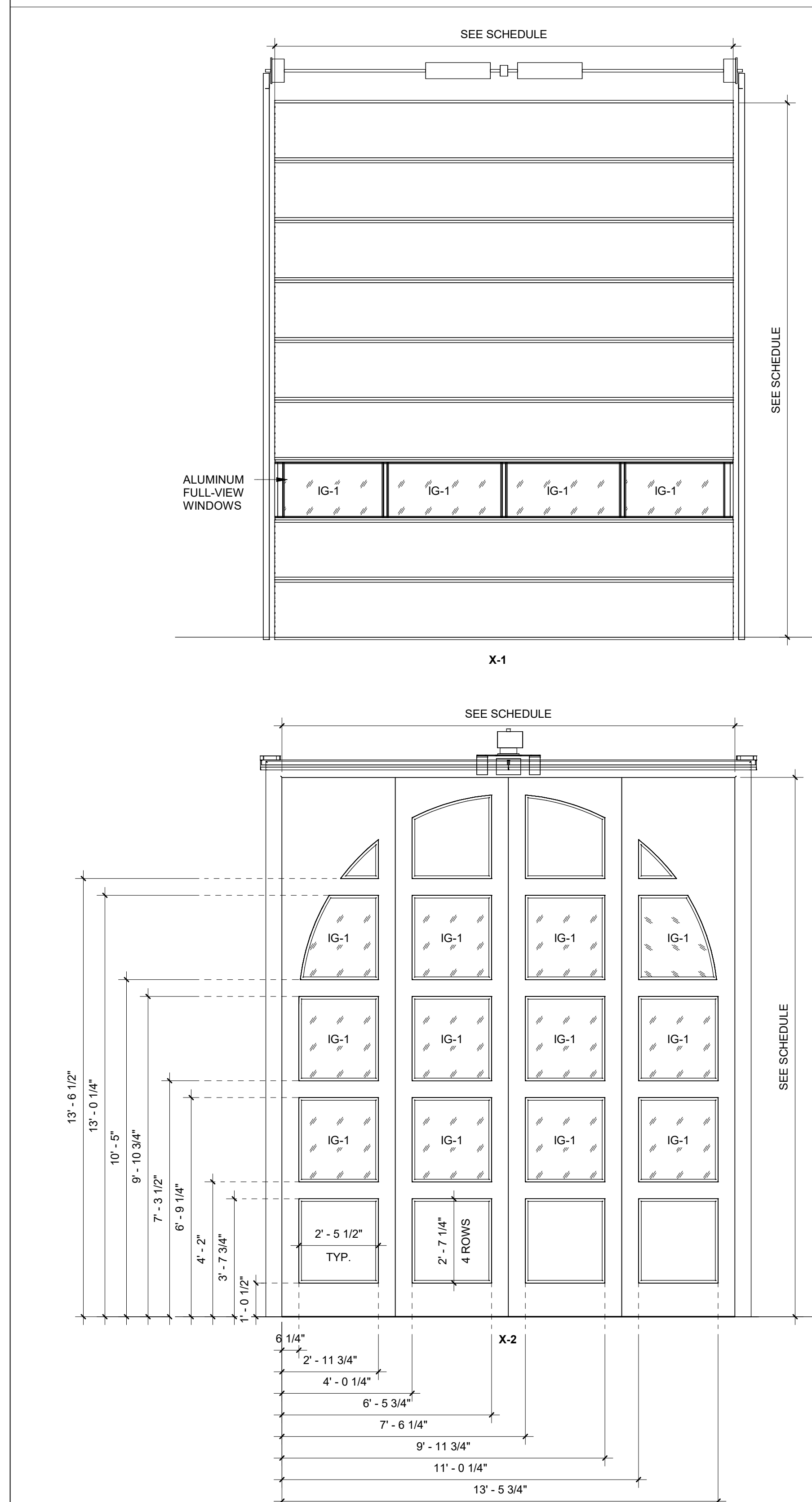
DOOR FRAME NOTES

- 1. FRAMES SHALL BE SIZED FOR DOORS BEING USED. FRAMES SHALL MEET REQUIRED RATINGS SHOWN ON DRAWINGS AND AS SPECIFIED AND REQUIRED BY THE GOVERNING AUTHORITIES... 2. ALL FRAMES 2" WIDE, DOUBLE RABBIT, WITH 5/8" STOP UNLESS INDICATED OTHERWISE...

DOOR SCHEDULE-EXTERIOR

Table with columns: DOOR NO., WIDTH OVERALL, DOOR TYPE, PANEL 1, PANEL 2, PANEL THICKNESS, MATERIAL, GLASS, FRAME TYPE, MATERIAL, HEAD, JAMB, SILL, FIRE RATING, ACCESS CONTROL, TMP HARDWARE SET, OVERTURE HARDWARE SET, COMMENTS.

OVERHEAD AND BI-FOLD PANEL TYPES



DOOR FIRE RATINGS

Table with columns: Rating, Description: -- NO FIRE RATING, 20 20 MINUTES, C45 3/4 HOUR 'C' LABEL

DOOR FRAME MATERIAL

Table with columns: Material Code, Description: AL ALUMINUM, HM HOLLOW-METAL, MFR COORDINATE WITH MANUFACTURER

GLASS TYPE

Table with columns: Glass Code, Description: -- NO GLASS REQUIRED, FG-1 FIRE RATED GLASS, IG-1 INSULATING GLASS, TG-1 TEMPERED GLASS

ACCESS CONTROL

Table with columns: Access Code, Description: - NA, CR CARD READER, INT INTERCOM, PH PHONE

DOOR MATERIAL

Table with columns: Material Code, Description: AL ALUMINUM DOOR, HM HOLLOW-METAL DOOR, MFR COORDINATE WITH MANUFACTURER, SCW SOLID-CORE WOOD DOOR

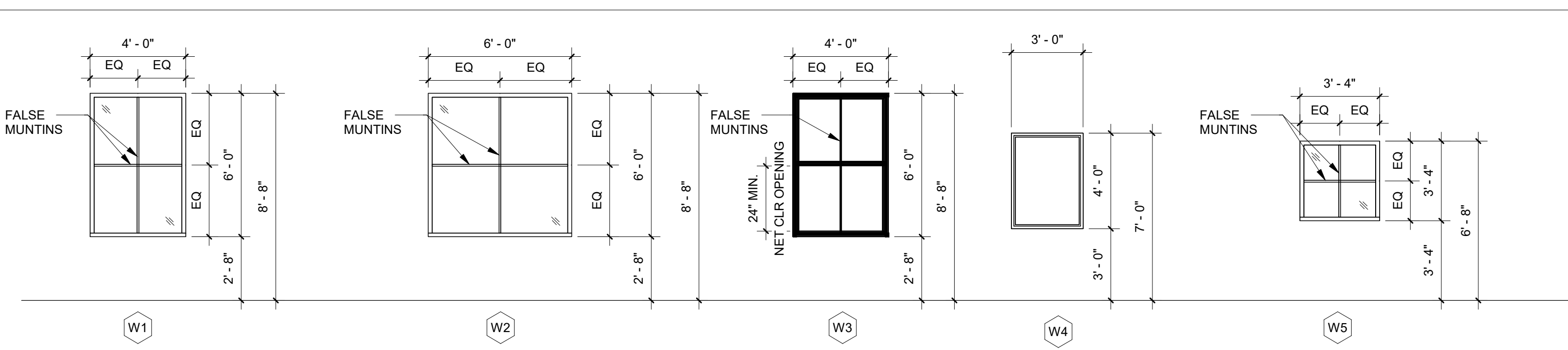
VIEW WINDOW AND LOUVER SCHEDULE

Table with columns: TYPE, WIDTH, HEIGHT, AFF, GLASS, HEAD, JAMB, SILL, FIRE RATING, COMMENTS.

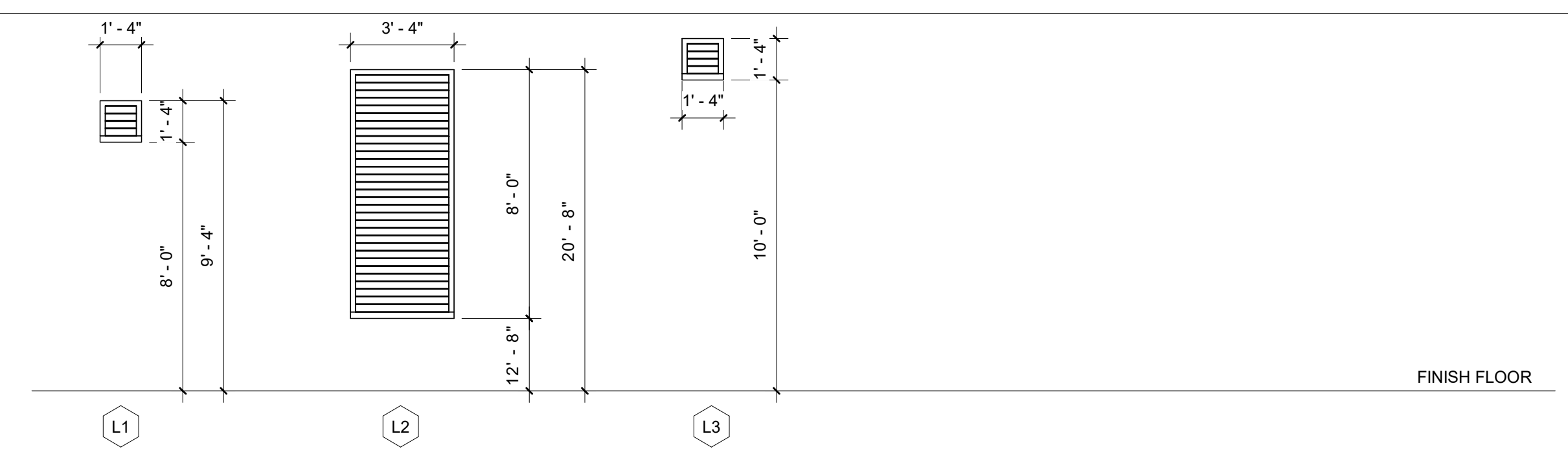
VIEW WINDOW NOTES

- 1. PROVIDE RATED FRAMES AS REQUIRED IN RATED PARTITIONS... 2. GLASS IN NON-RATED FRAMES SHALL BE 1/4" TEMPERED GLASS... 3. GLASS IN RATED FRAMES SHALL BE FIRE PROTECTION-RATED GLAZING UNLESS NOTED OTHERWISE...

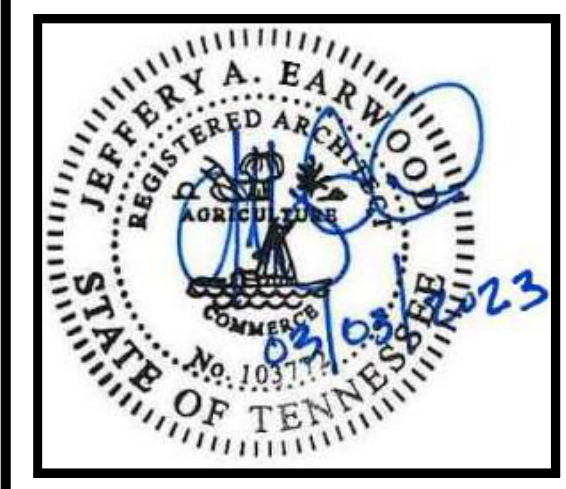
WINDOW TYPES



LOUVER TYPES



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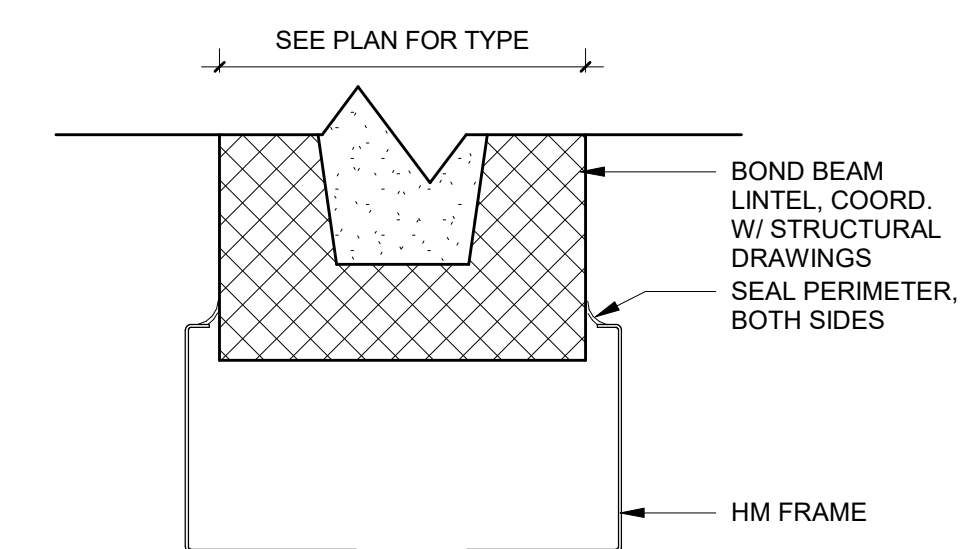
TOWN OF NOLENSVILLE FIRE STATION #1 7231 HALEY INDUSTRIAL DRIVE NOLENSVILLE, TENNESSEE

Table with columns: NO., DESCRIPTION, DATE.

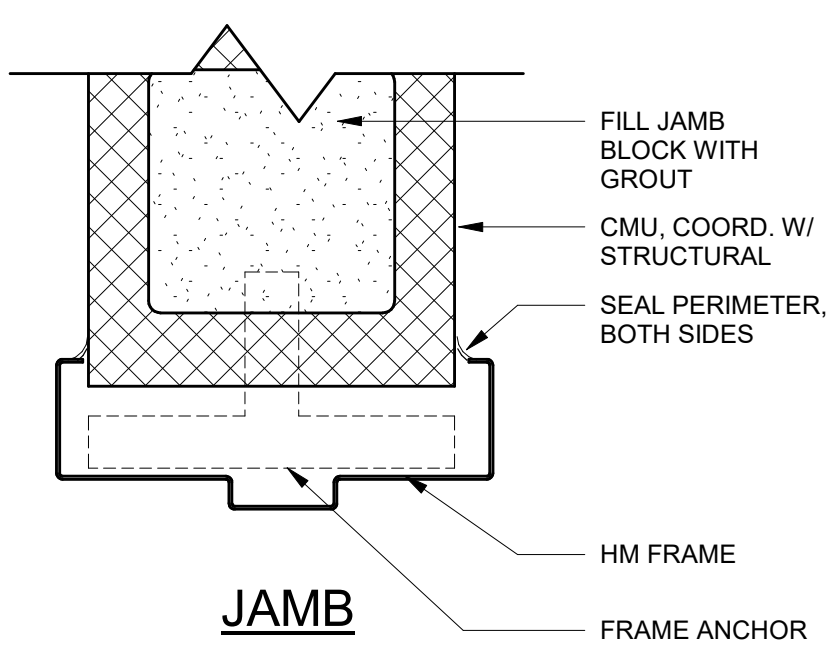
DR. BY SH CK. BY JE, LS PROJ. NO. A01122 DATE 03/03/23

DOOR AND WINDOW SCHEDULE

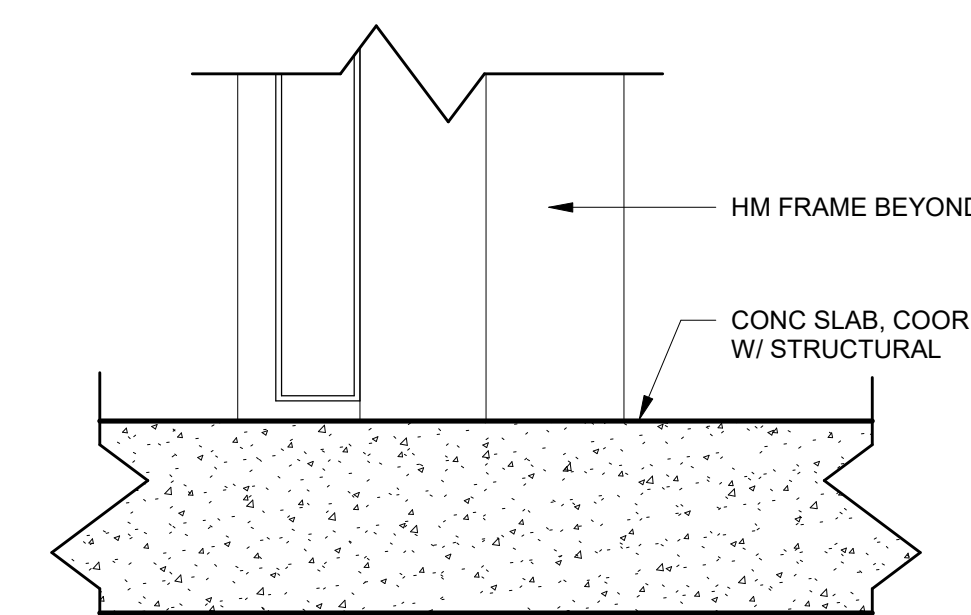
A575



HEAD

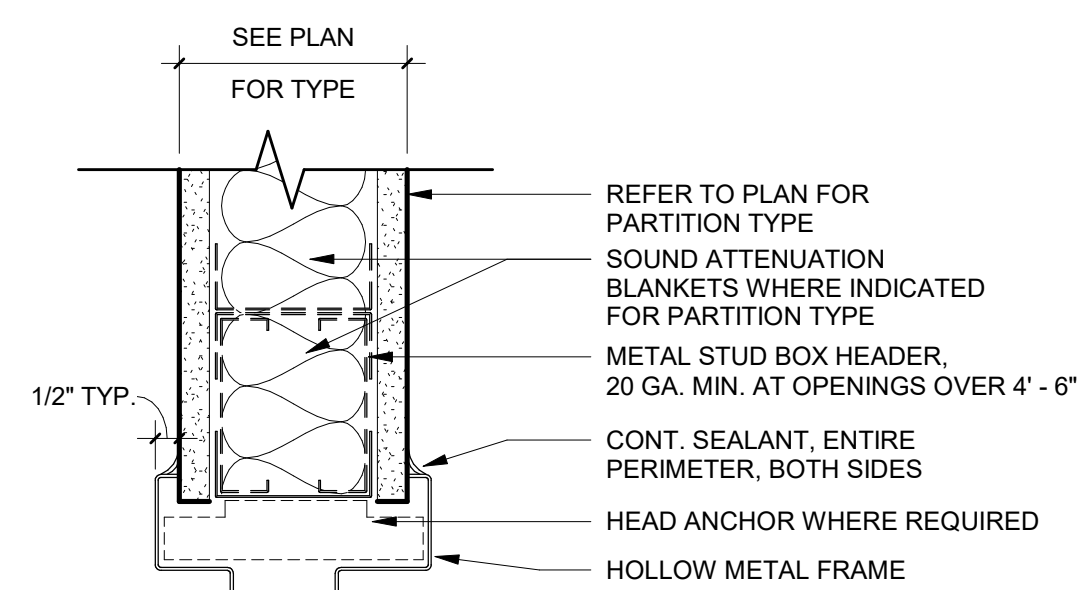
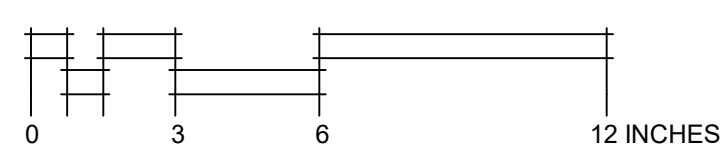


JAMB

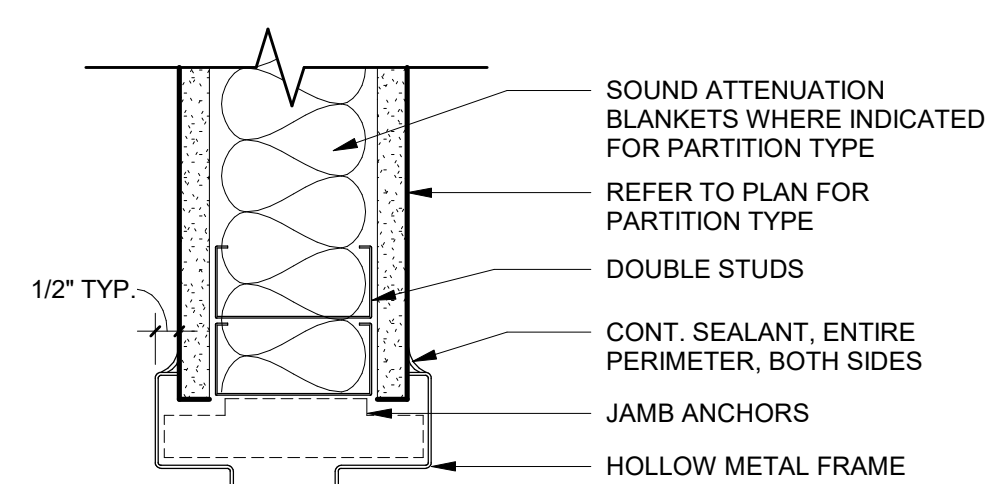


THRESHOLD

1 DETAIL - INT. DOOR AT CMU

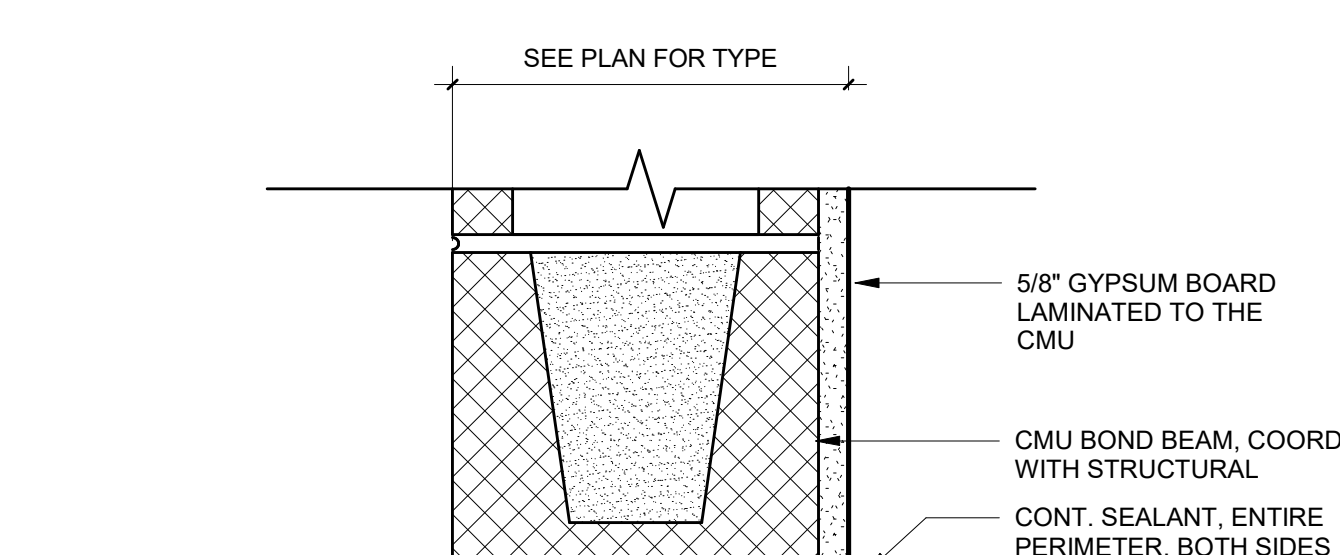
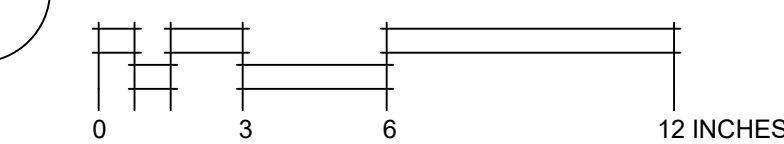


HEAD

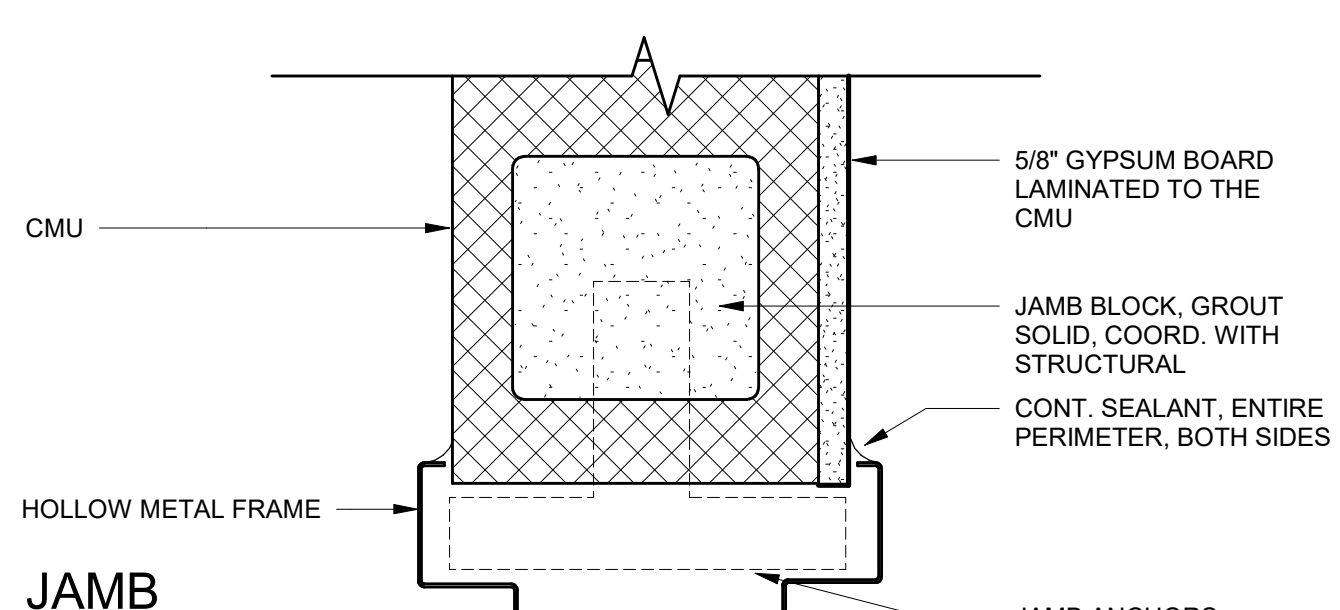


JAMB

2 DETAIL

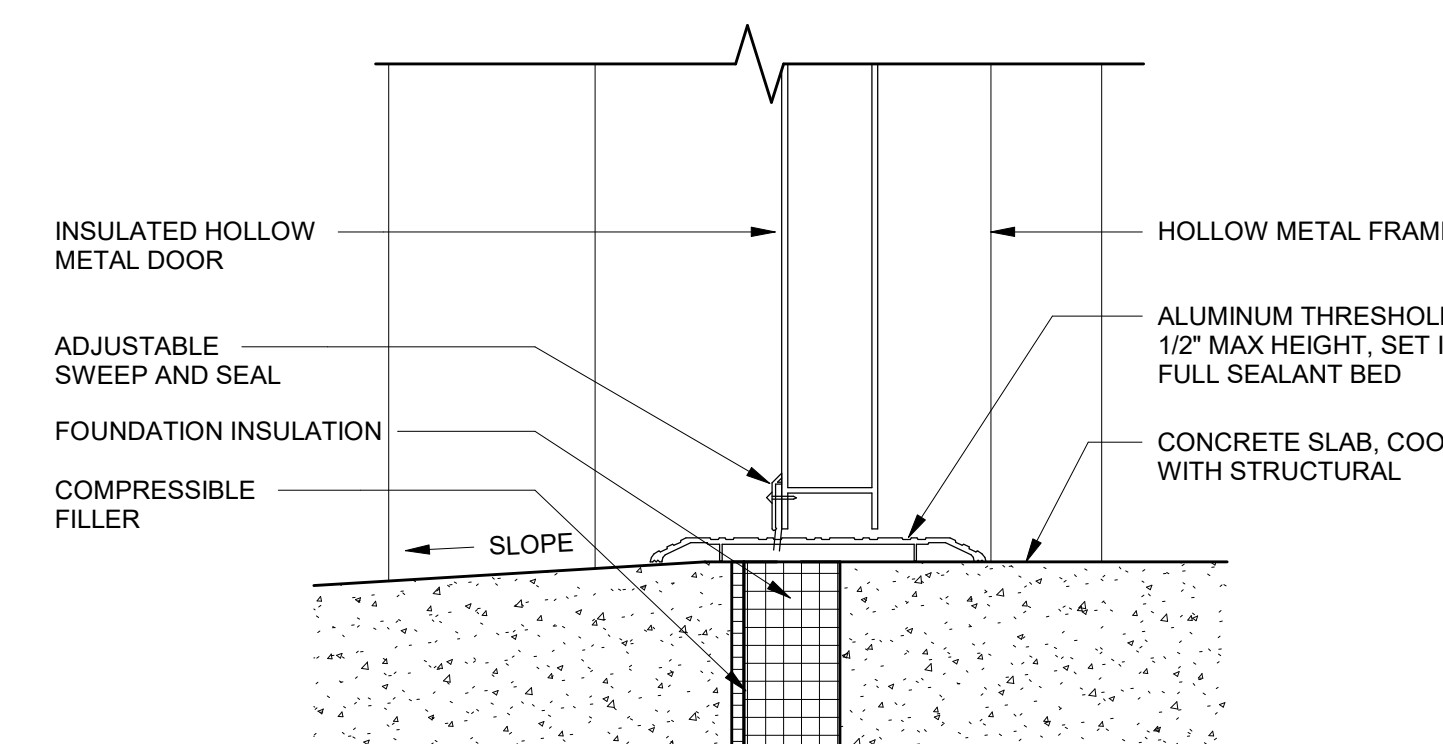
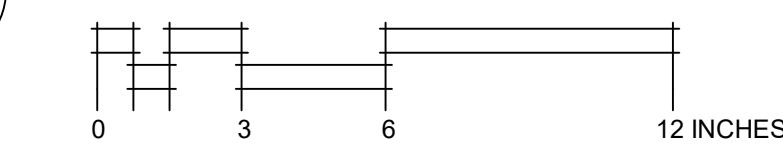


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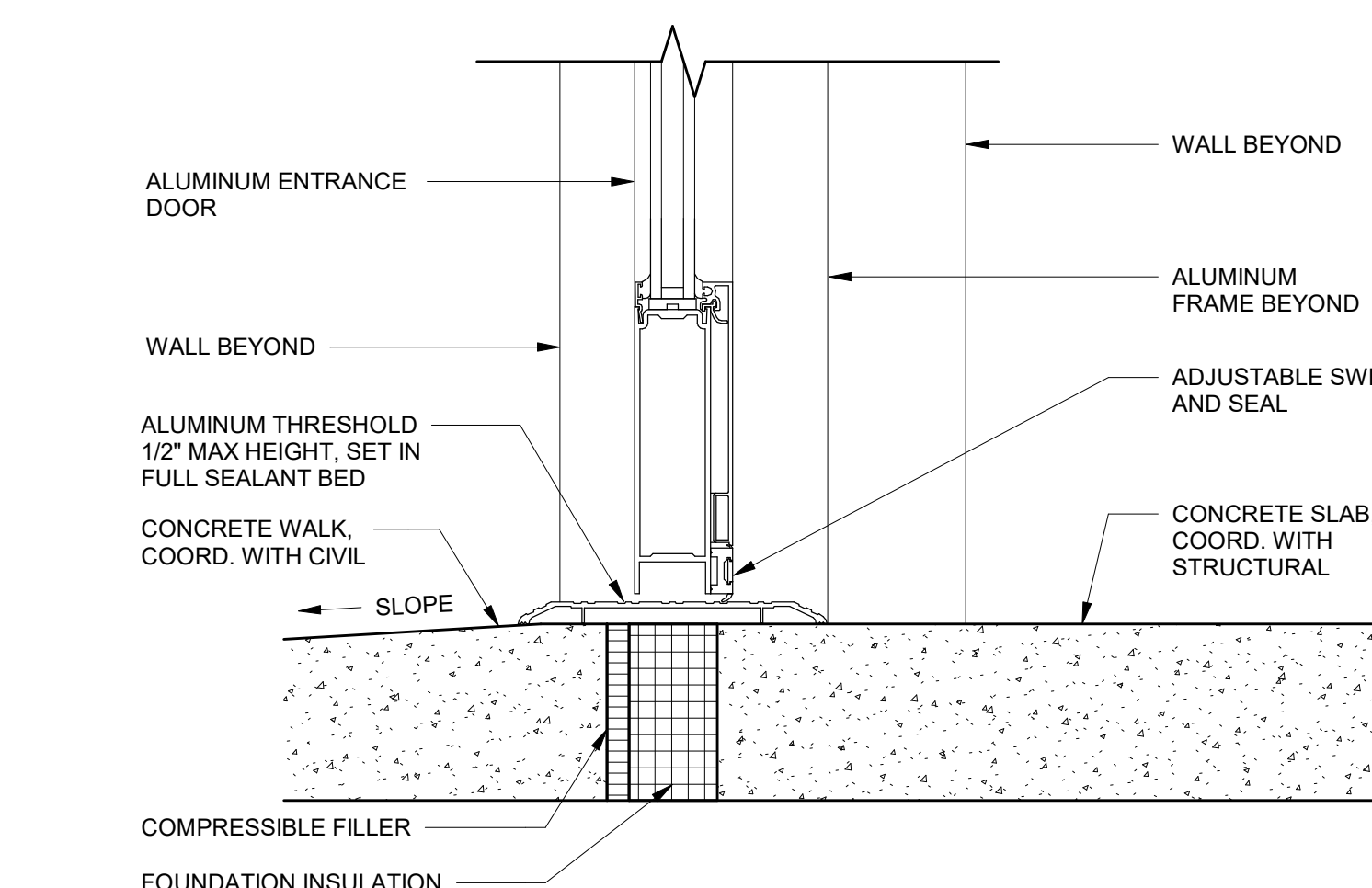
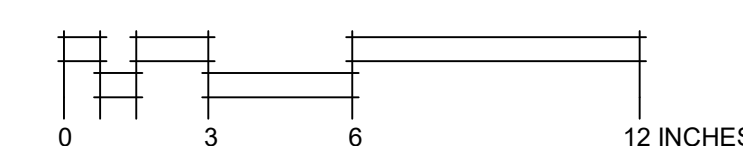


JAMB

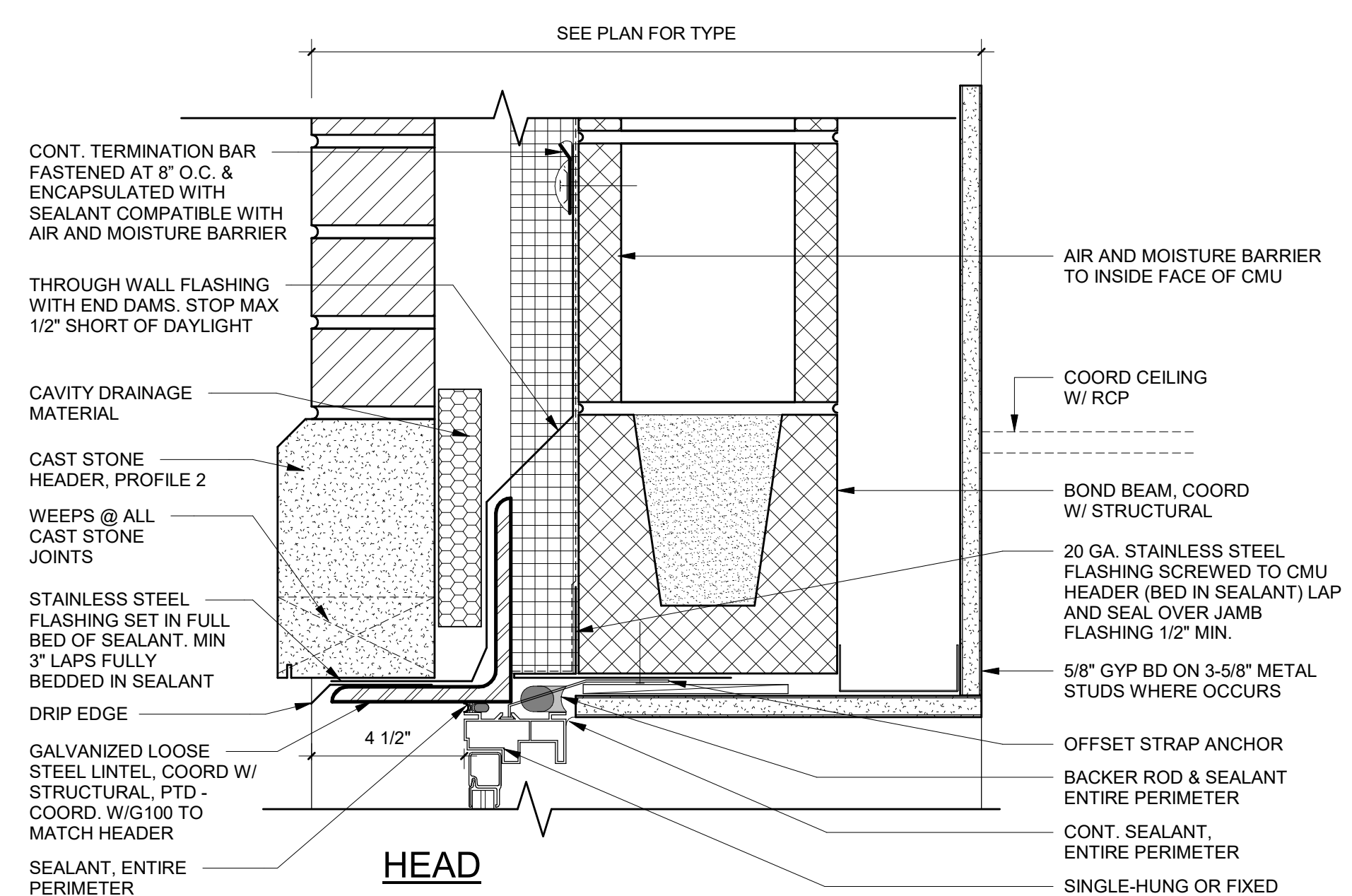
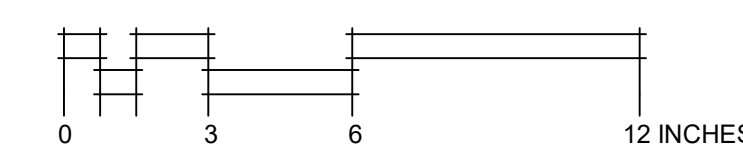
3 DETAIL - INT. DOOR AT CMU & GYP



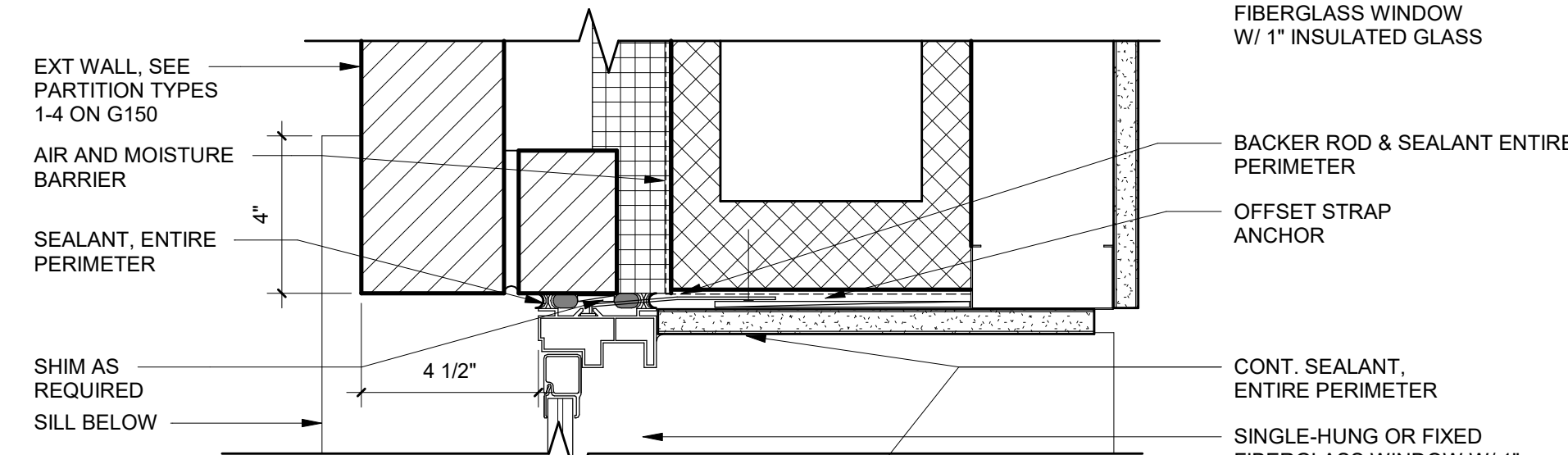
4 DETAIL - EXT. HM DOOR TRESHOLD



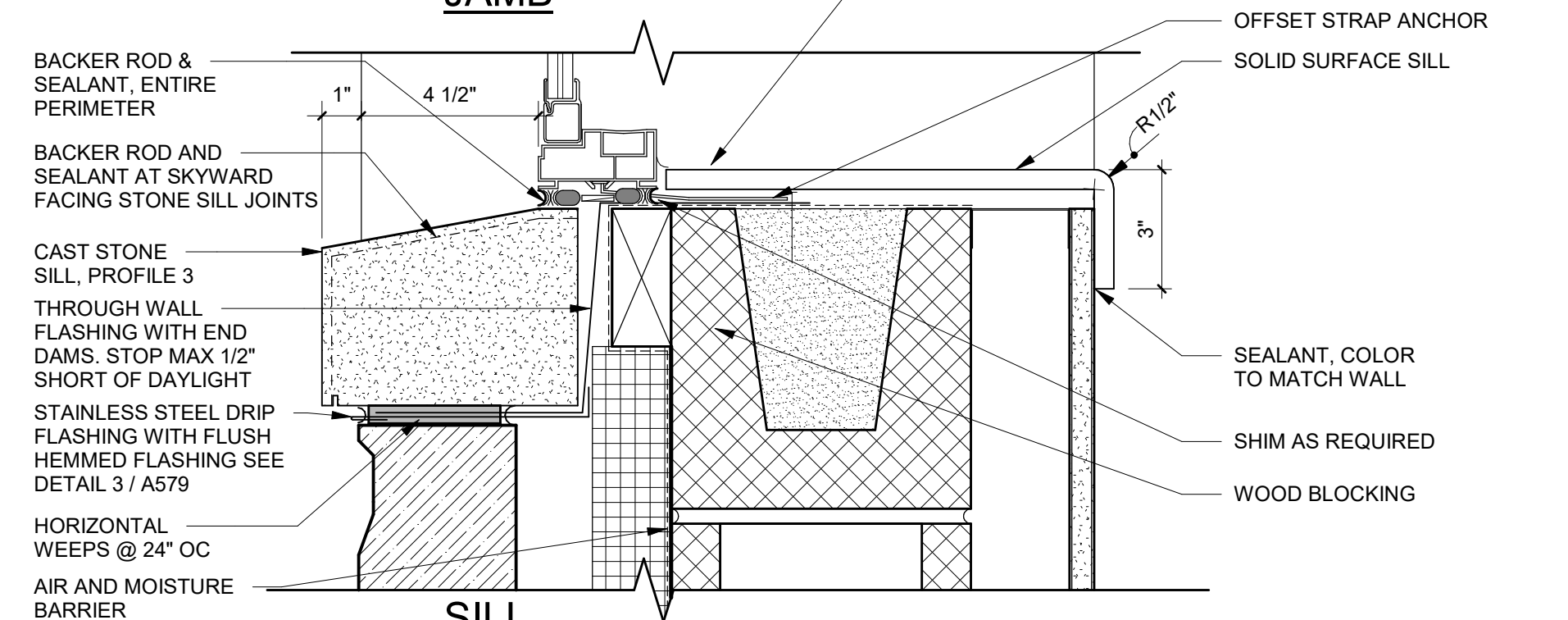
5 DETAIL - EXT. AL DOOR THRESHOLD



HEAD

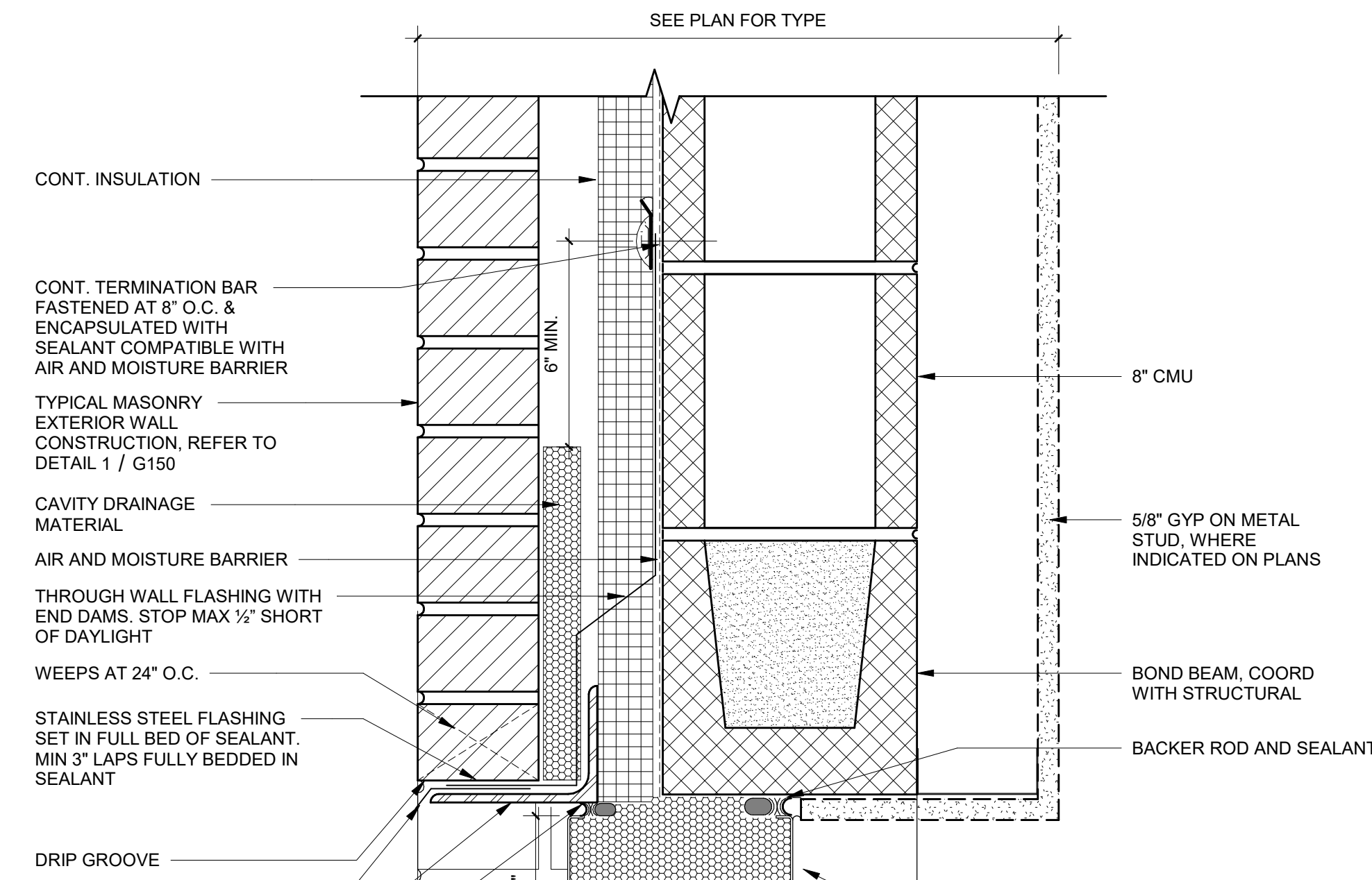
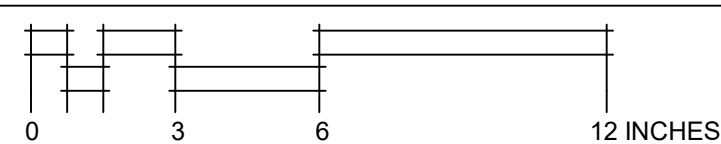


JAMB

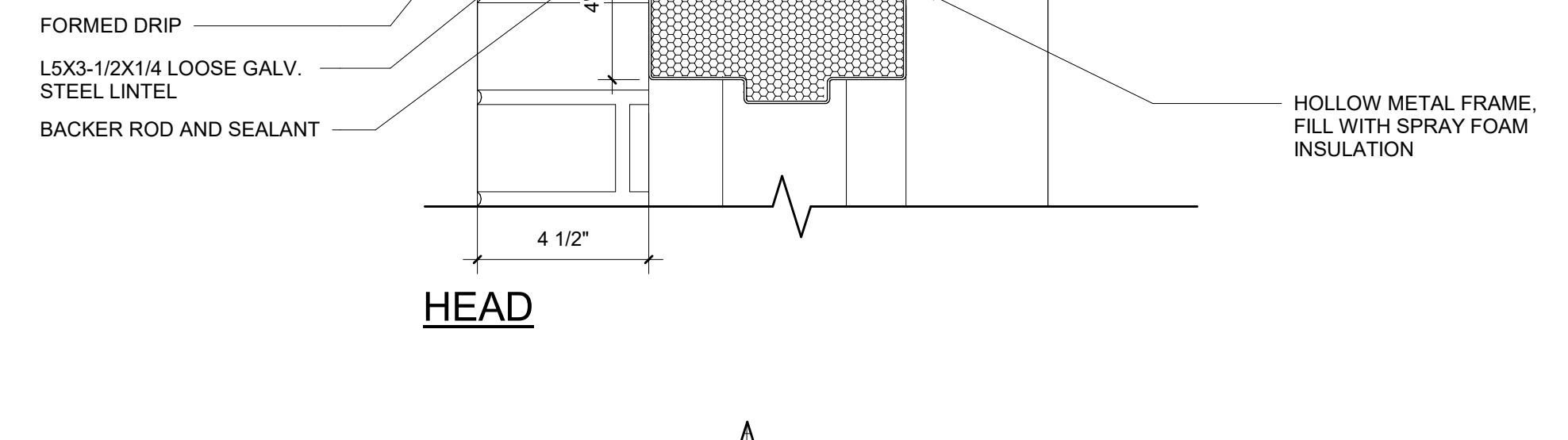


SILL

6 DETAIL - FIXED/SINGLE HUNG WINDOW

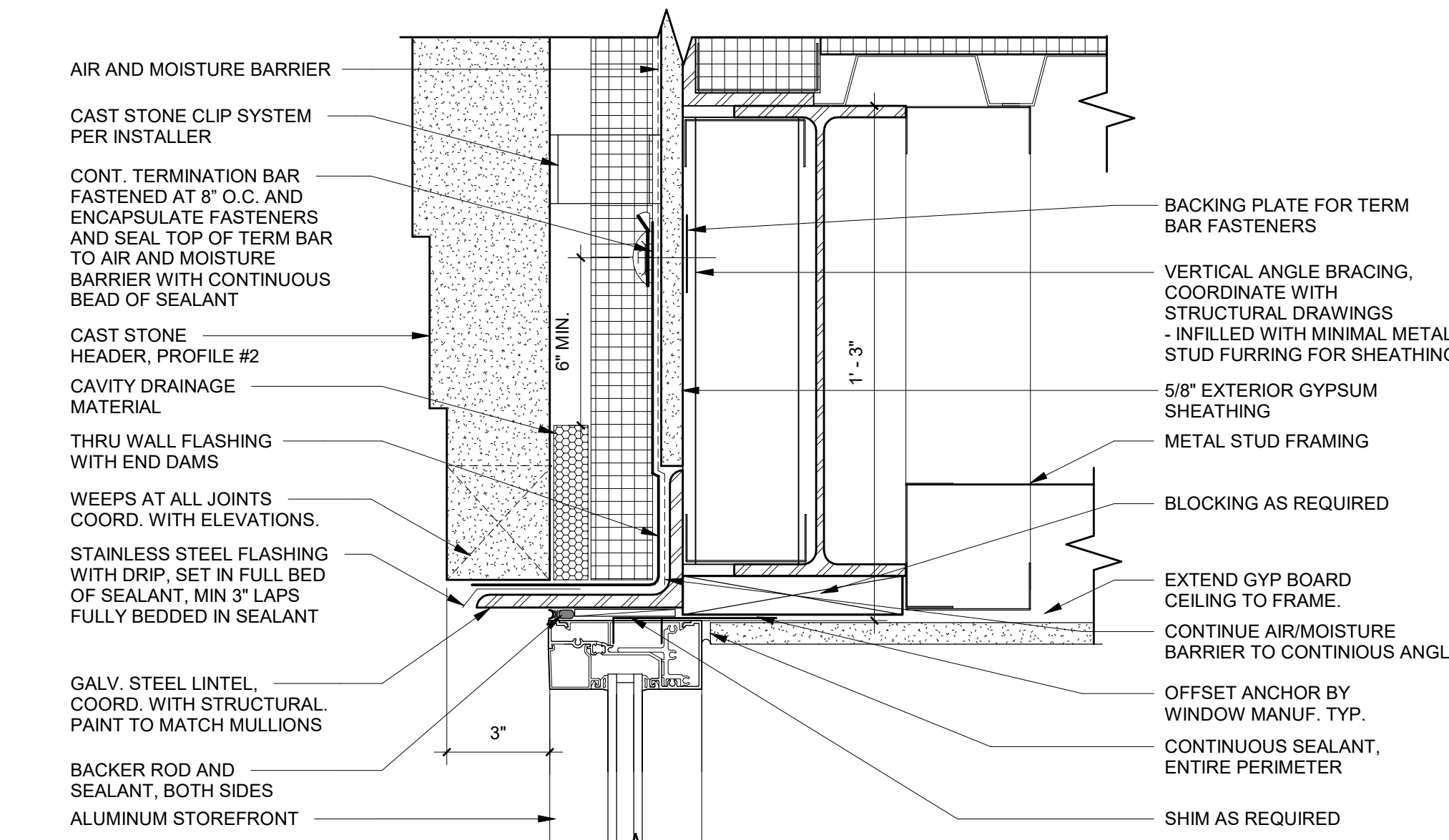
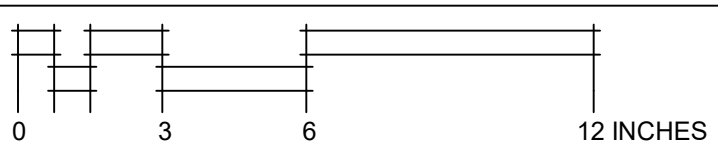


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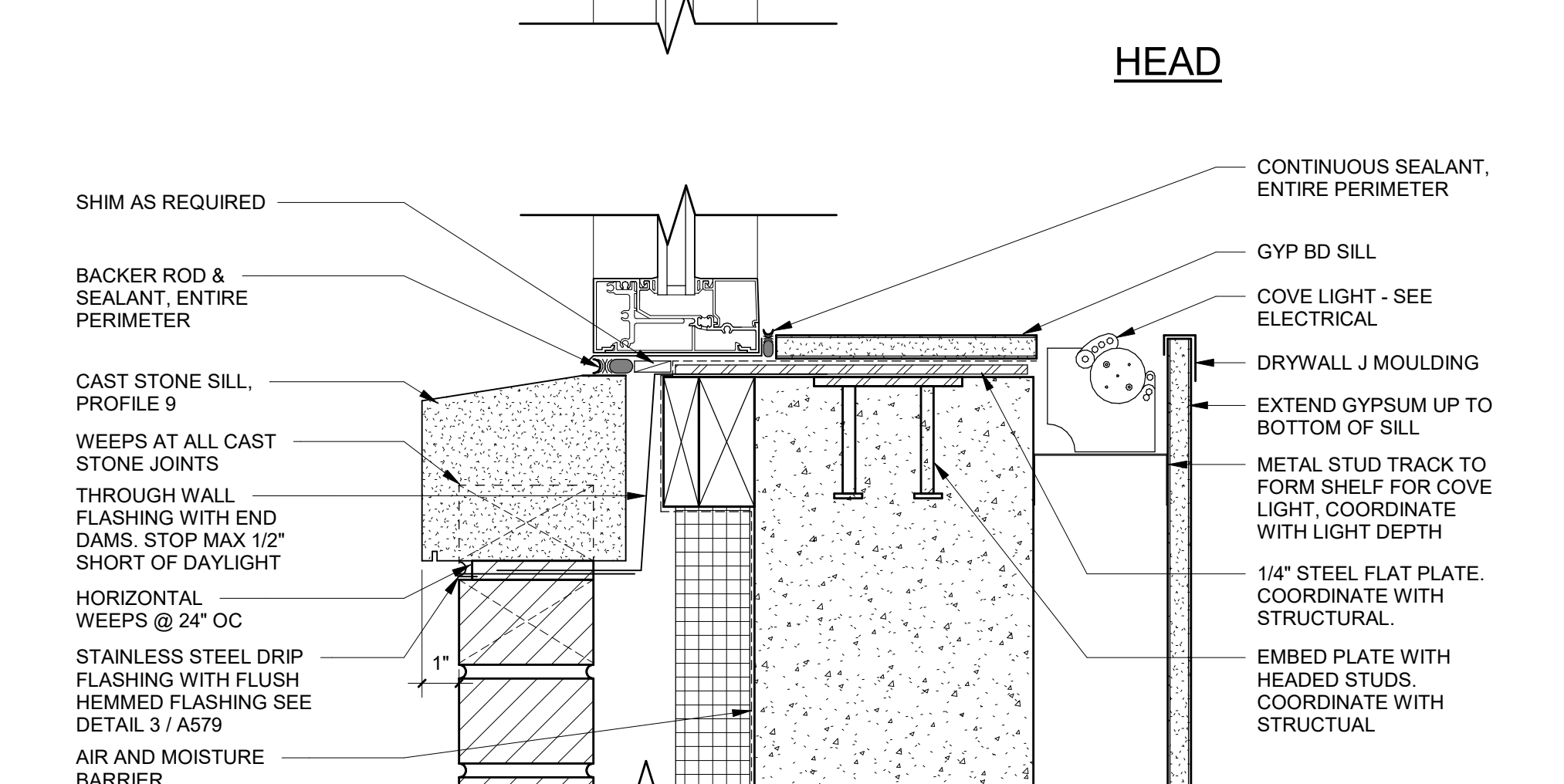


JAMB

7 DETAIL - EXT. HM DOOR AT BRICK ON CMU

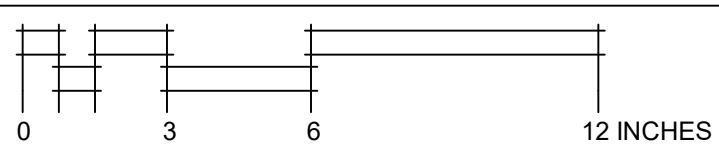


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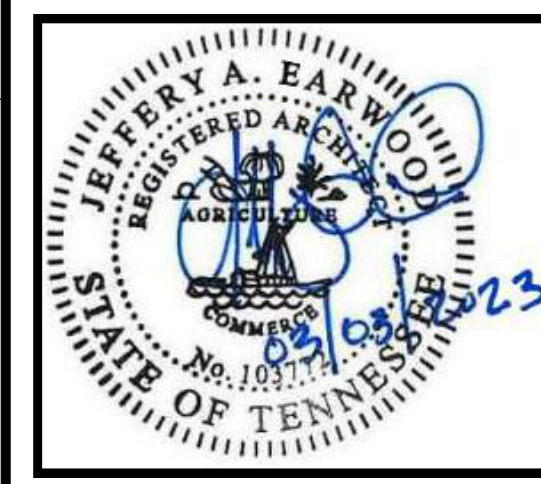
SILL

8 DETAIL - EXT. STOREFRONT CLERESTORY



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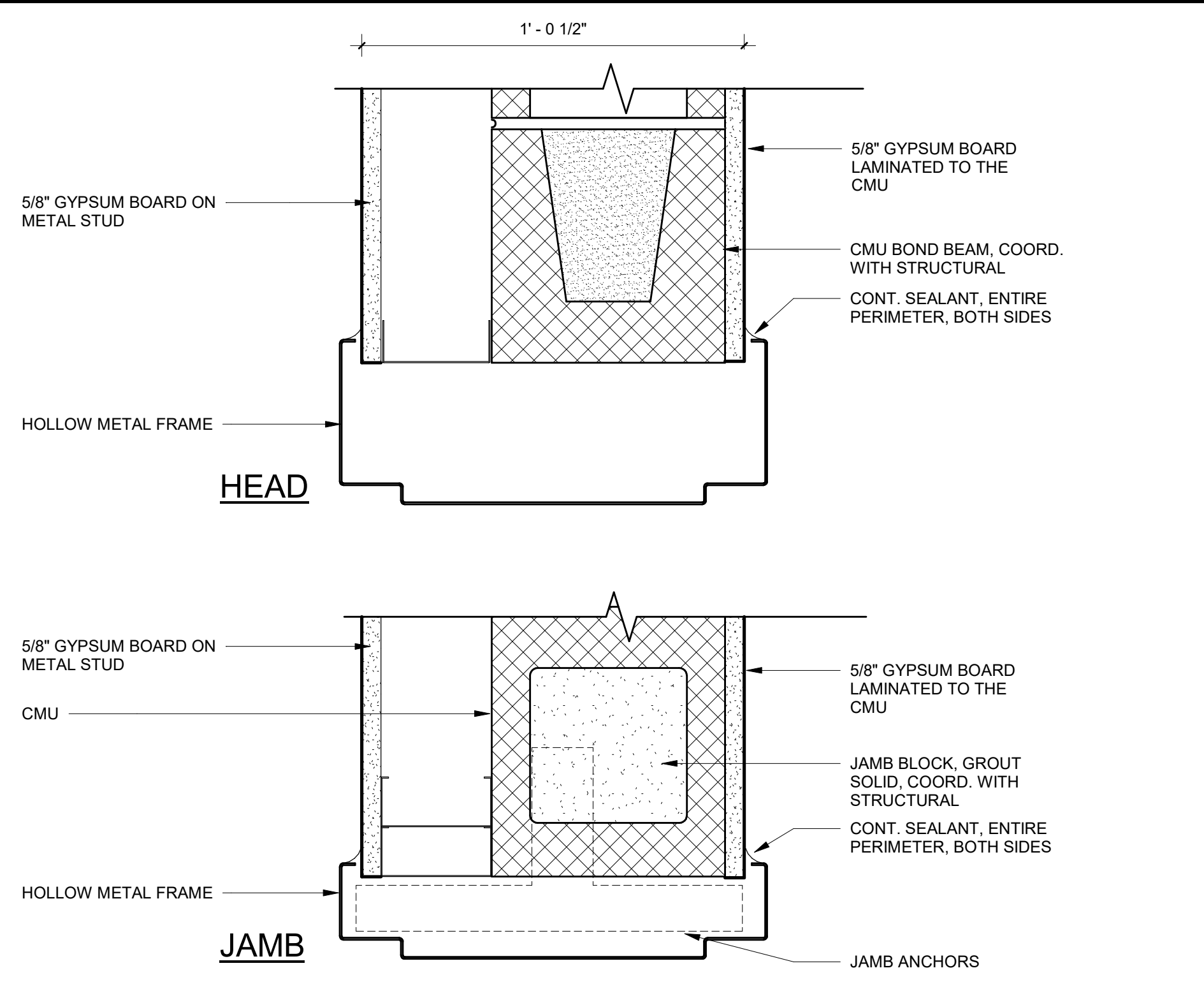
REVISIONS

NO.	DATE	DESCRIPTION

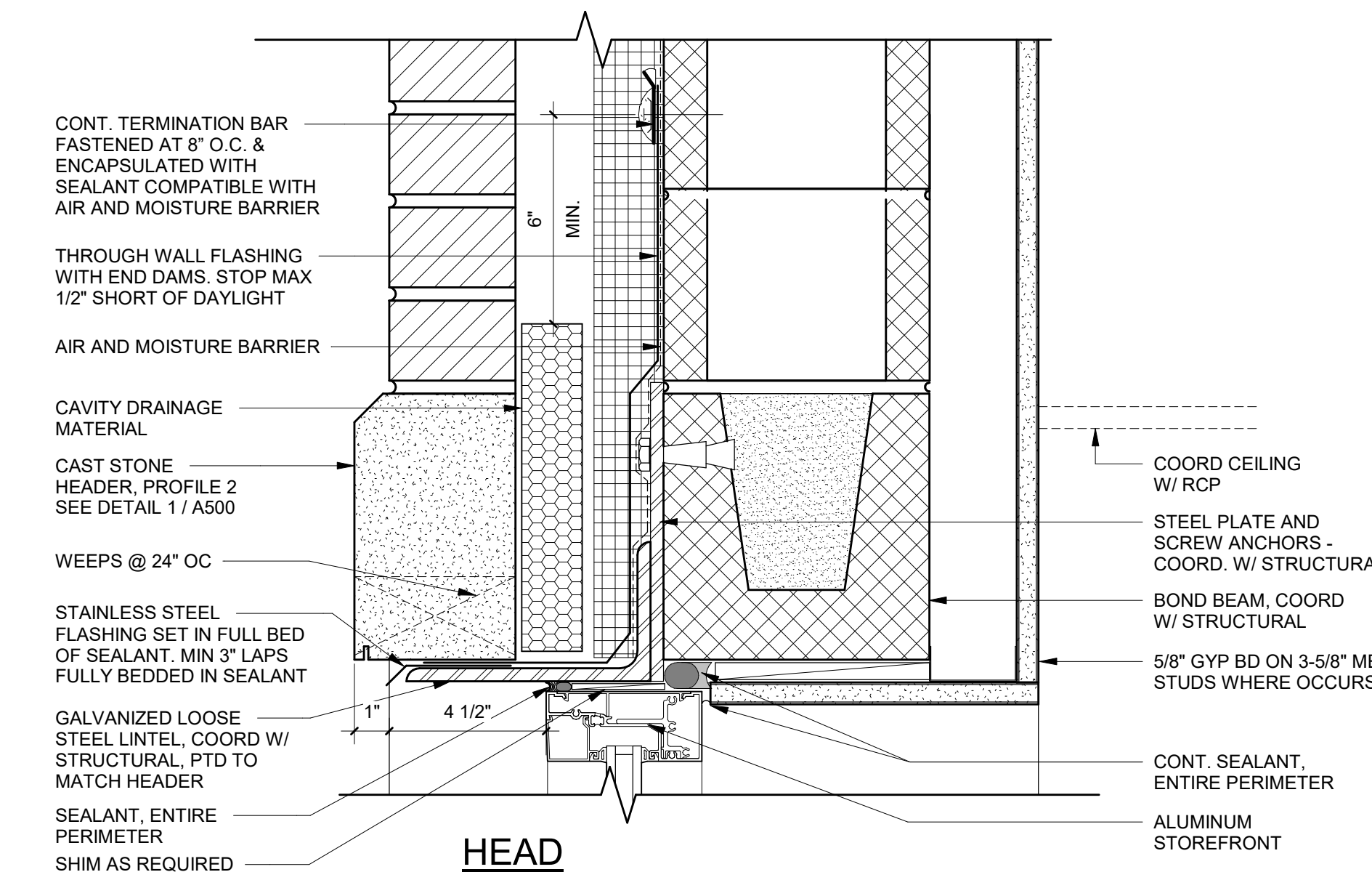
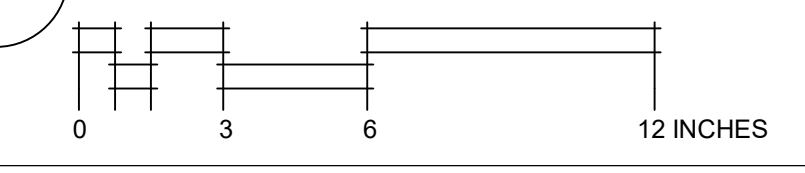
DR. BY Author
CK. BY JE, LS
PROJ. NO. A01122
DATE 03/03/23

DOOR AND WINDOW DETAILS

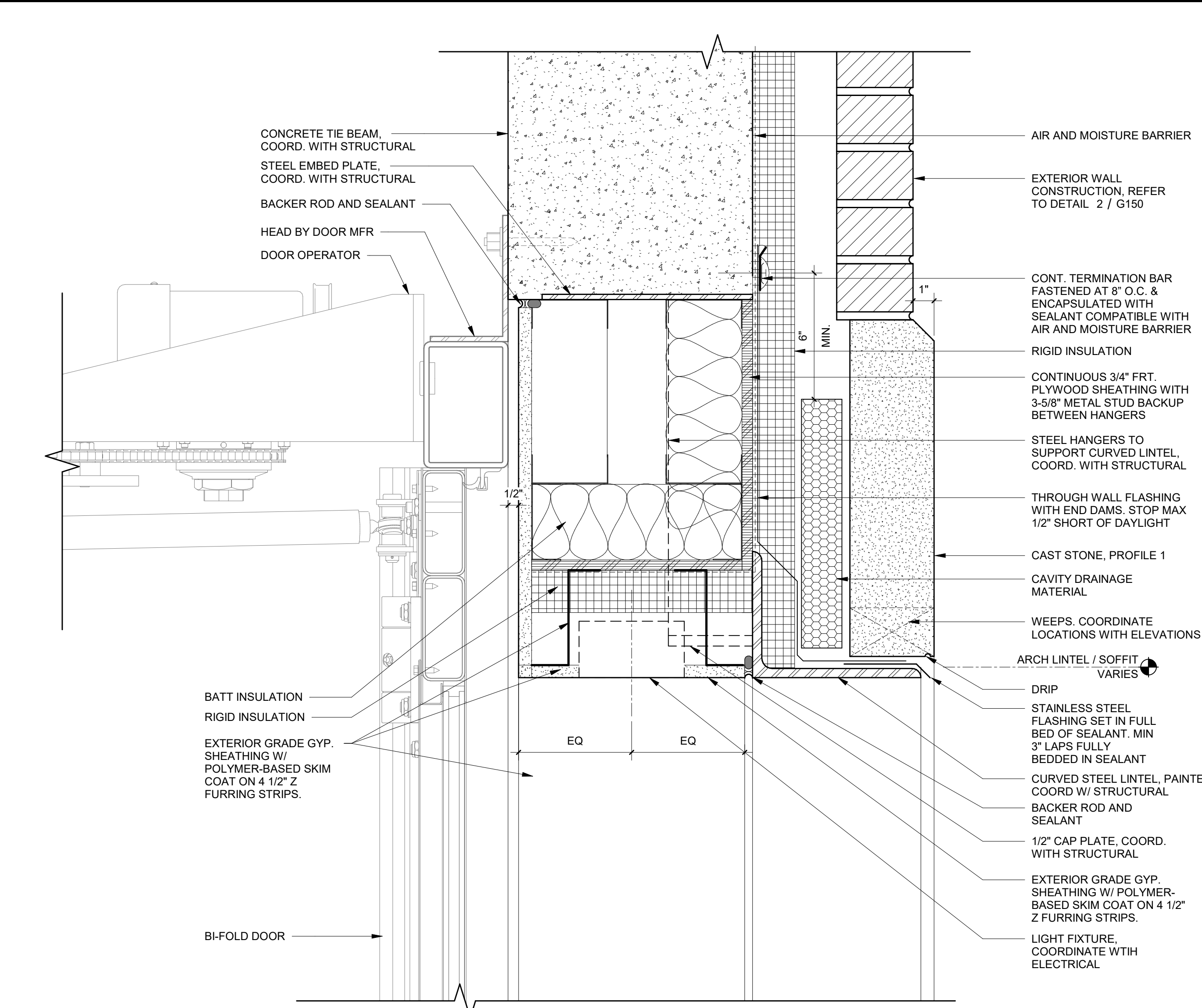
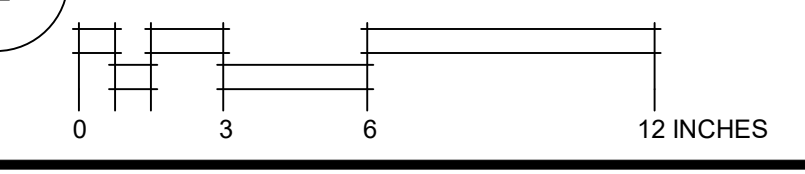
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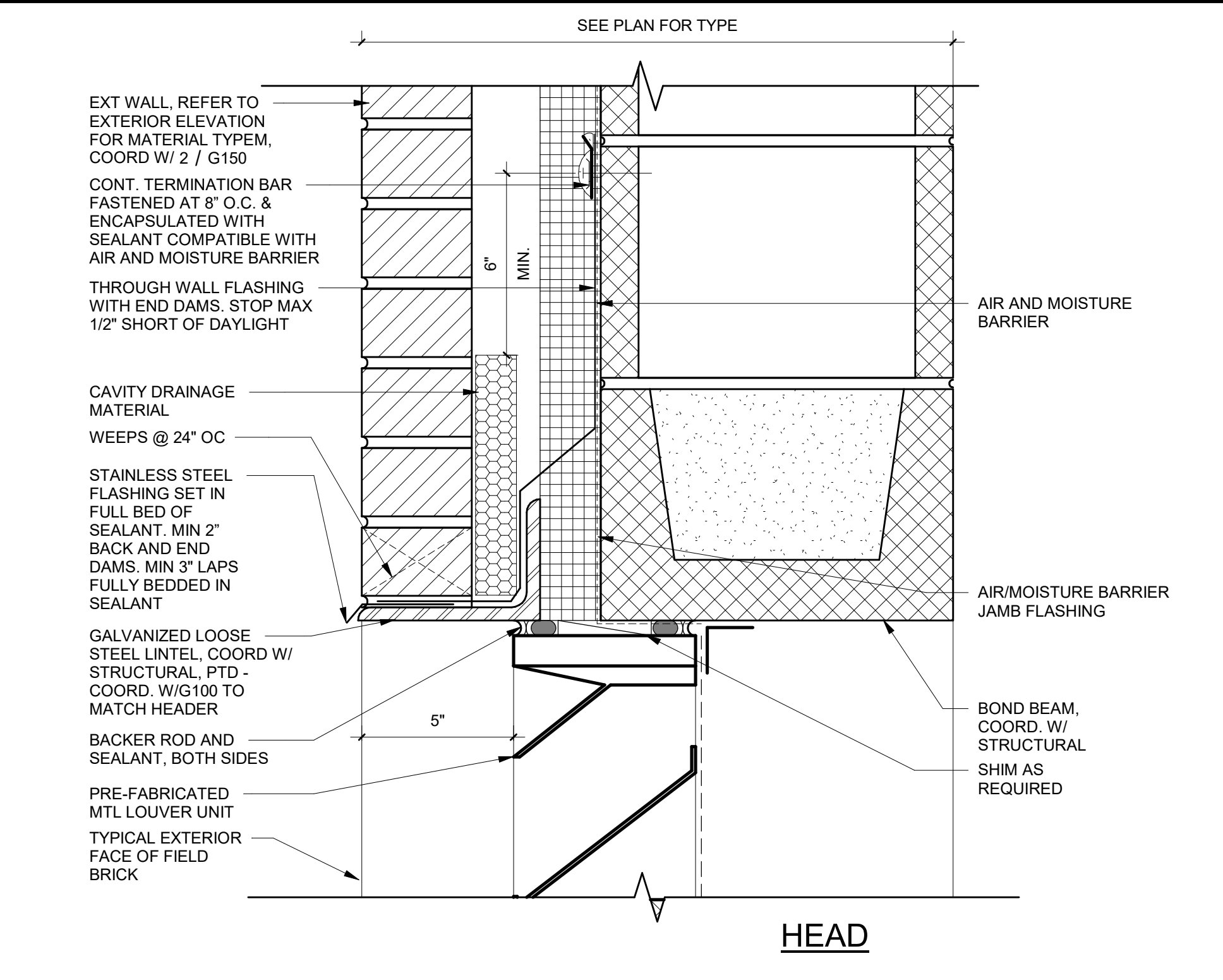
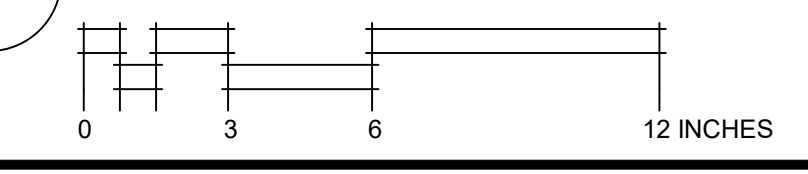
1 DETAIL - INT. DOOR AT CMU & GYP



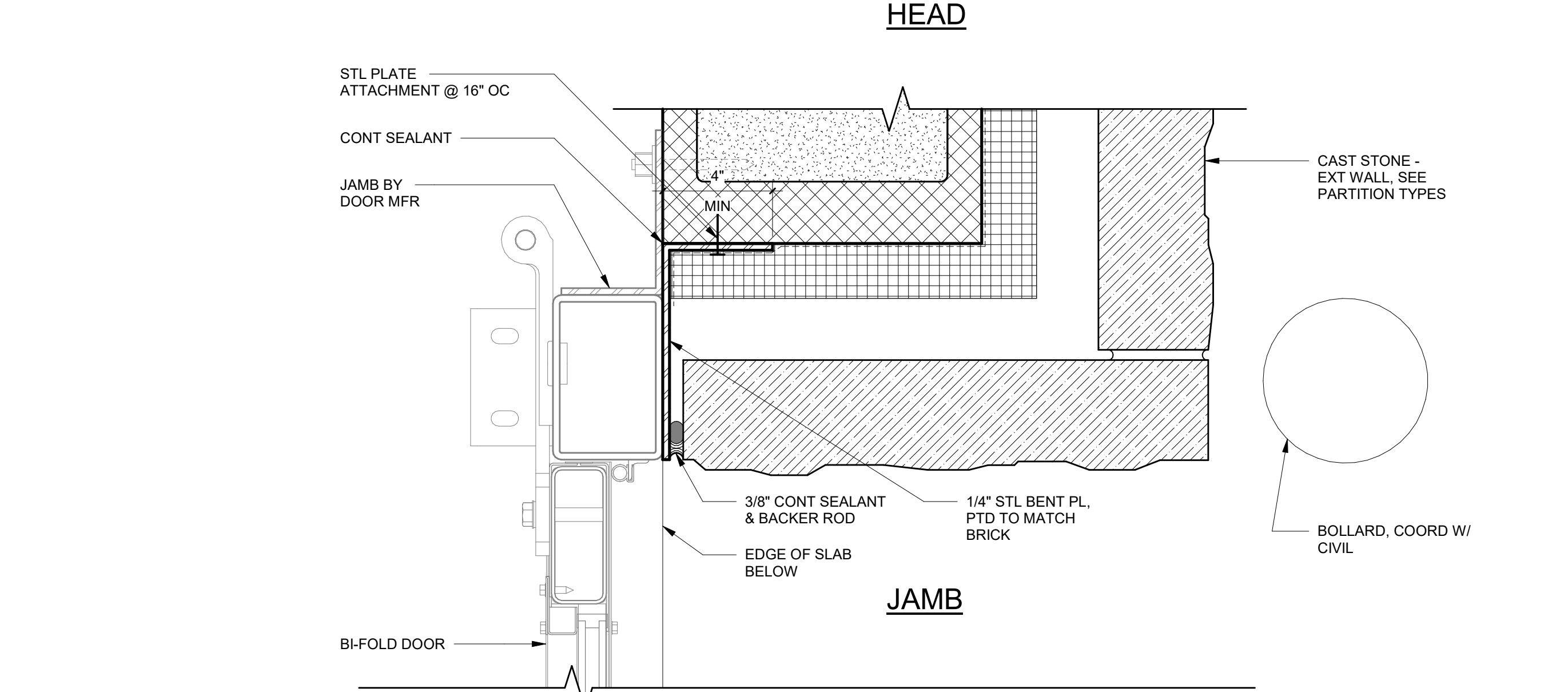
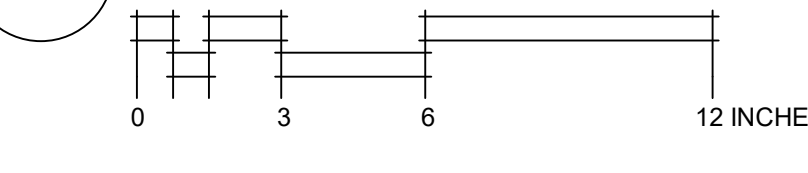
2 DETAIL - STOREFRONT AT BRICK ON CMU



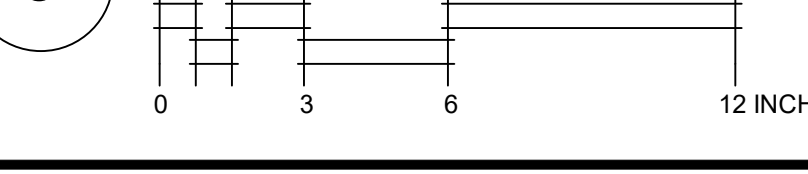
3 DETAIL - EXT. BI-FOLD DOOR



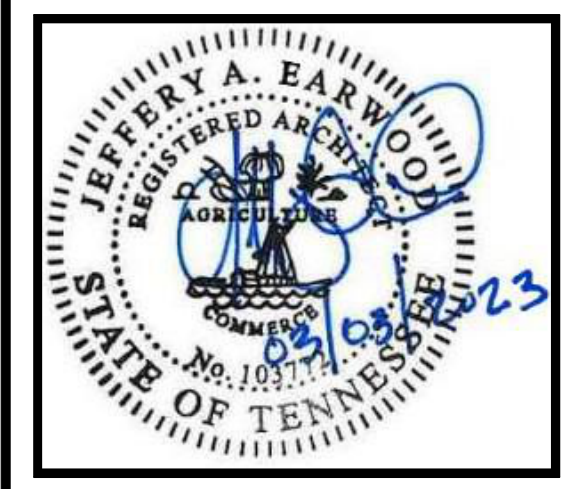
4 DETAIL - LOUVER



5 DETAIL - STOREFRONT AT SLAB

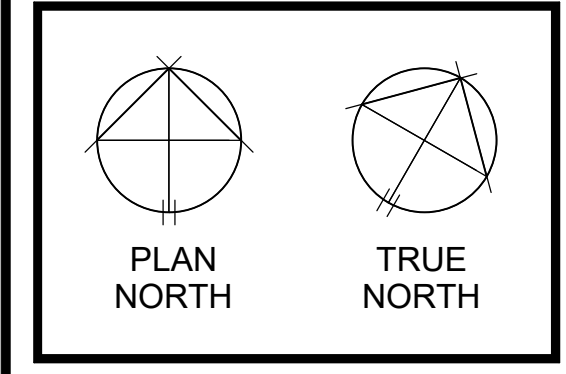


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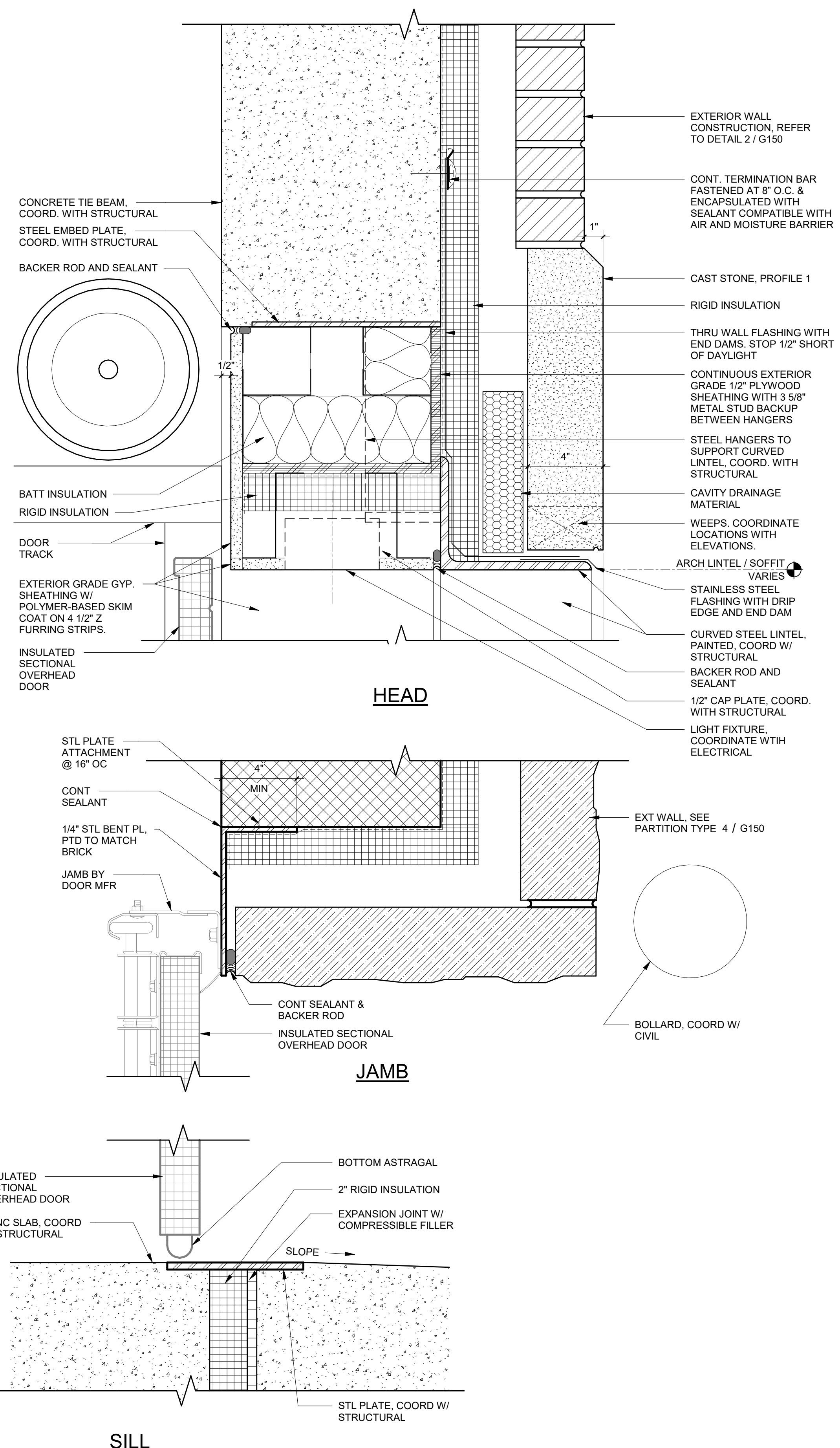
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FIRE STATION #1
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DR. BY	RG
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PROJ. NO.	A01122
DATE	03/03/23

DOOR AND WINDOW DETAILS
A577



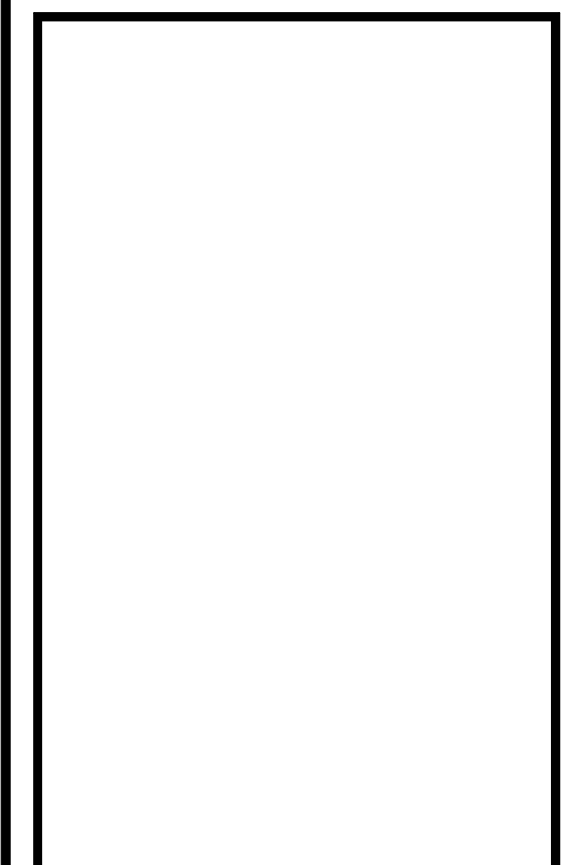
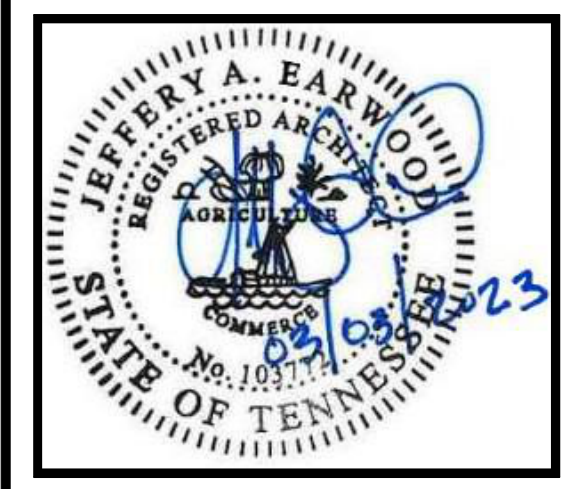
1 DETAIL - EXT. SECTIONAL OVERHEAD DOOR

0 3 6 12 INCHES

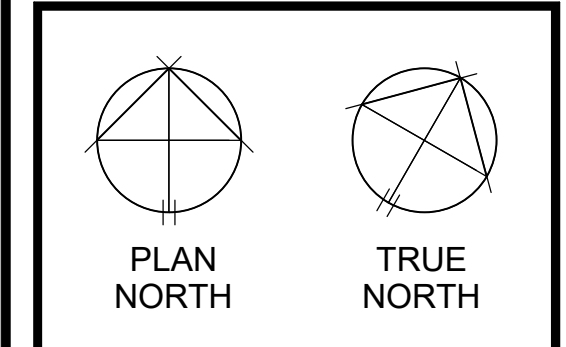


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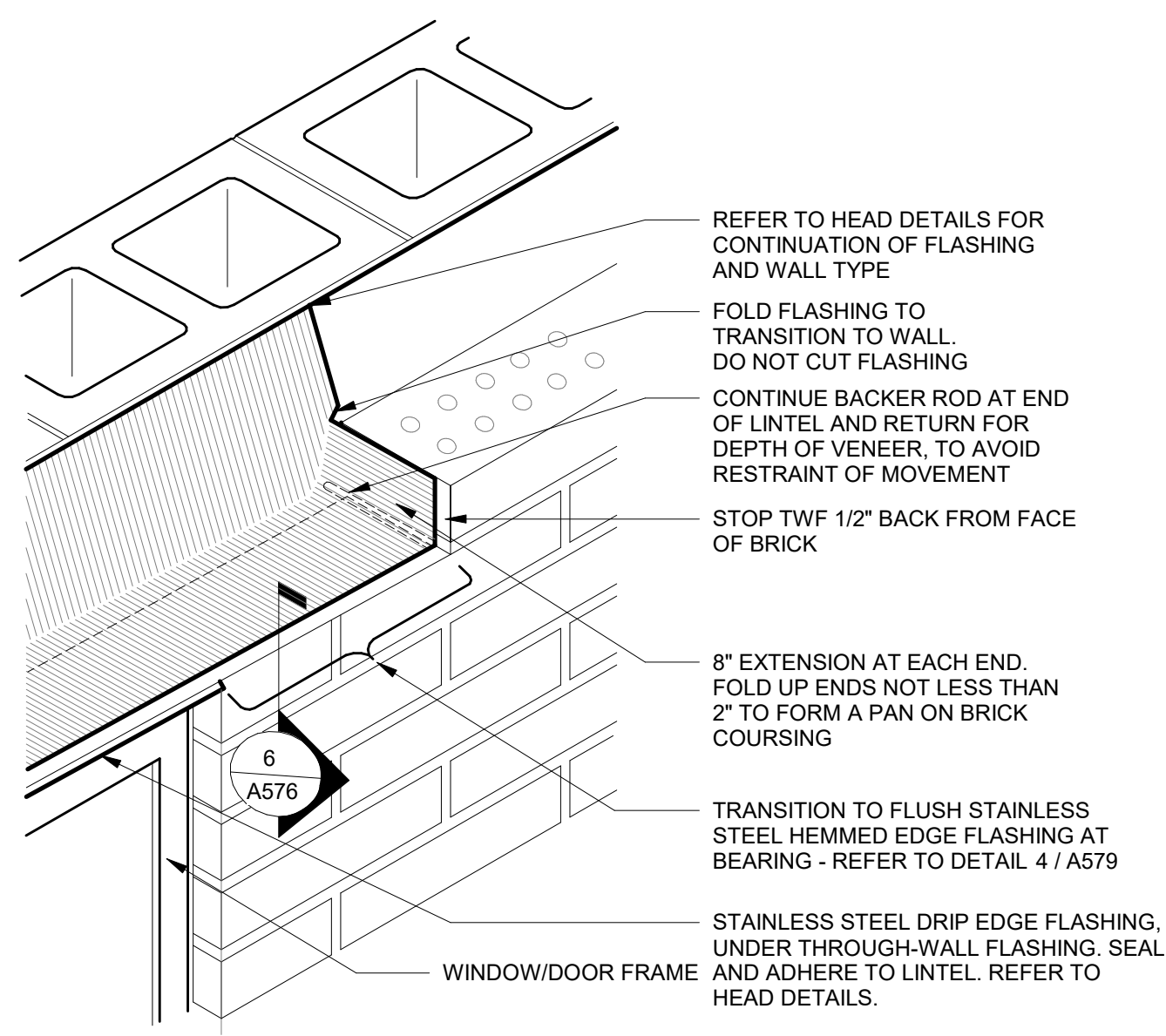


NO.	DATE	DESCRIPTION

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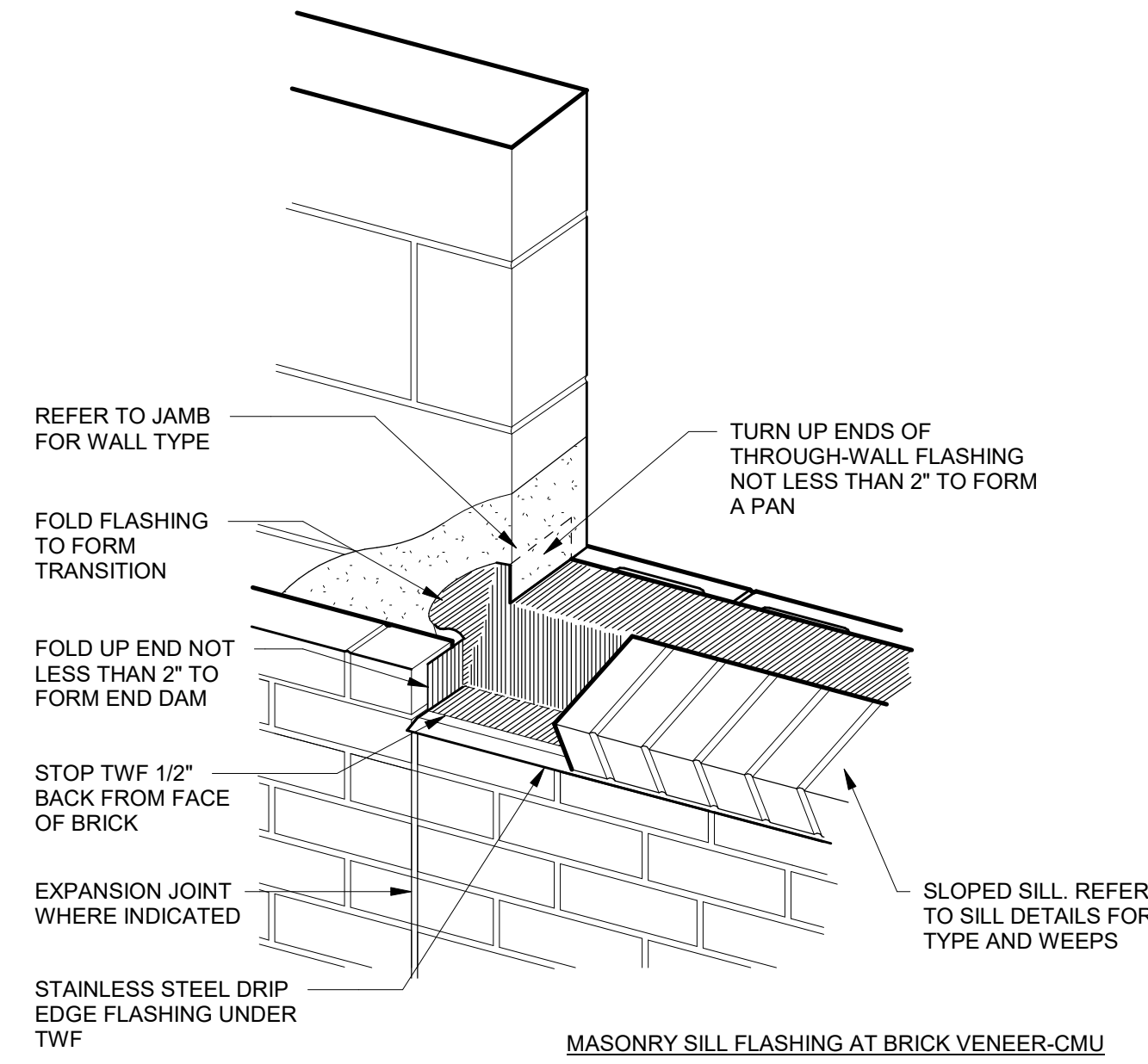
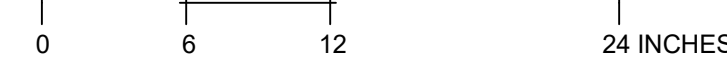
DOOR AND WINDOW DETAILS

A578



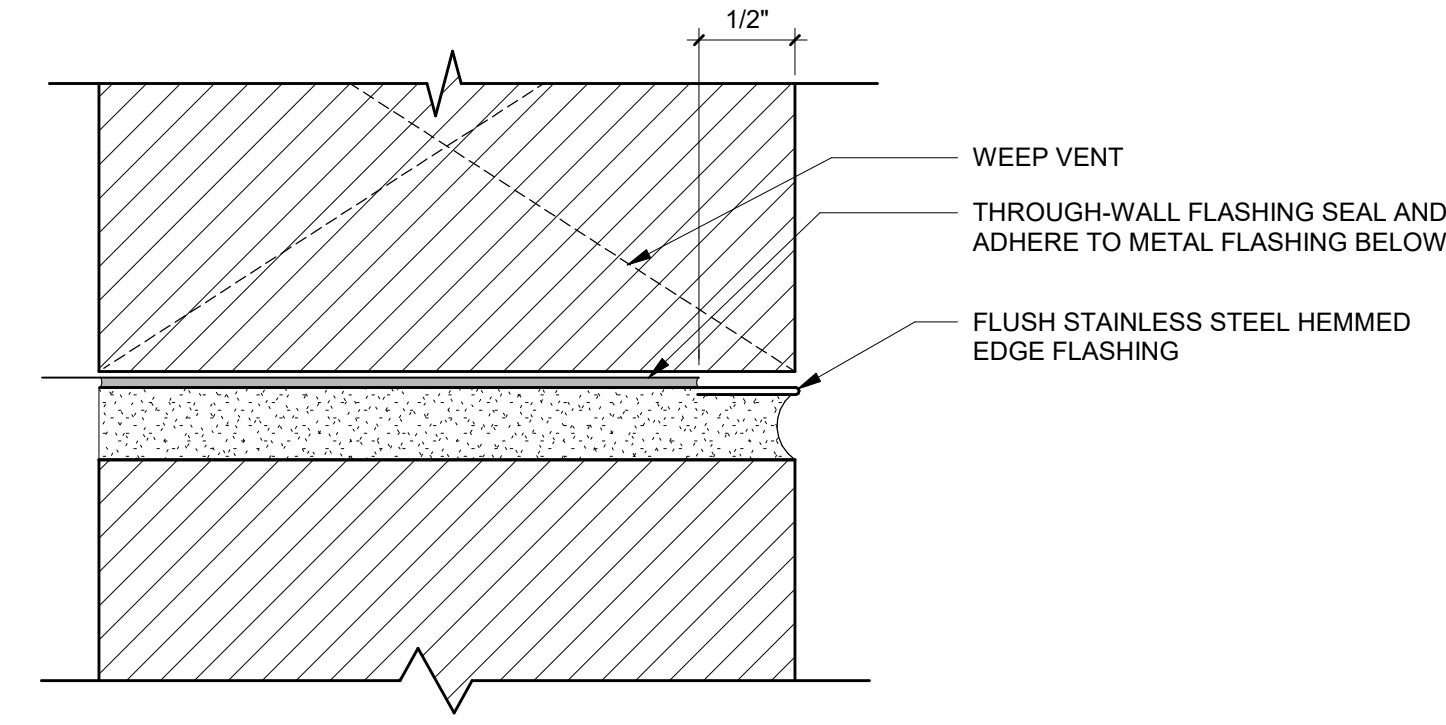
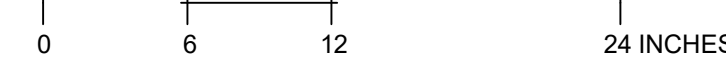
HEAD FLASHING AT BRICK VENEER LINTEL WITH EXPANSION JOINT

1 DETAIL - FLSH_Brick on CMU Head

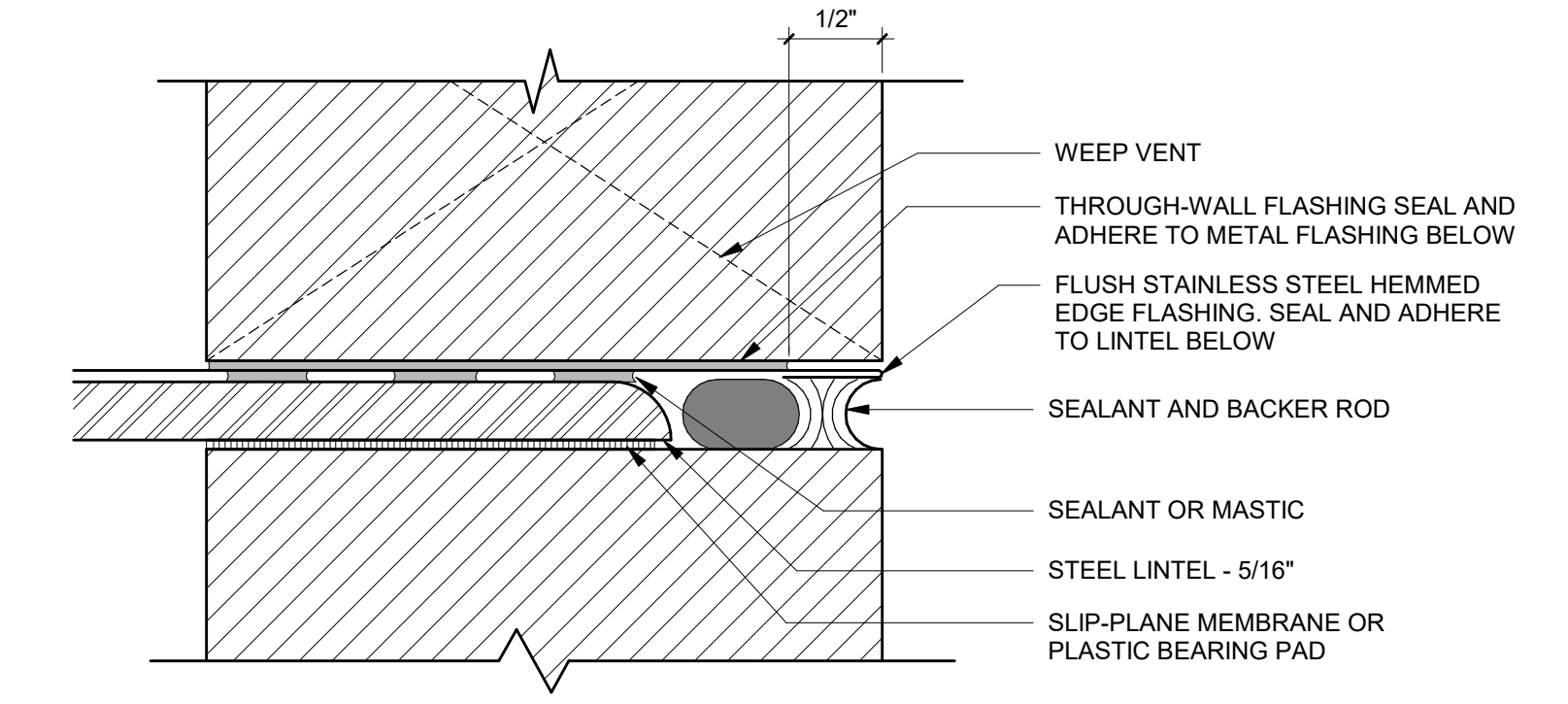
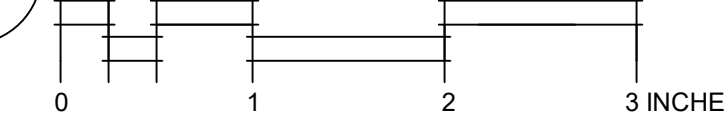


MASONRY SILL FLASHING AT BRICK VENEER-CMU

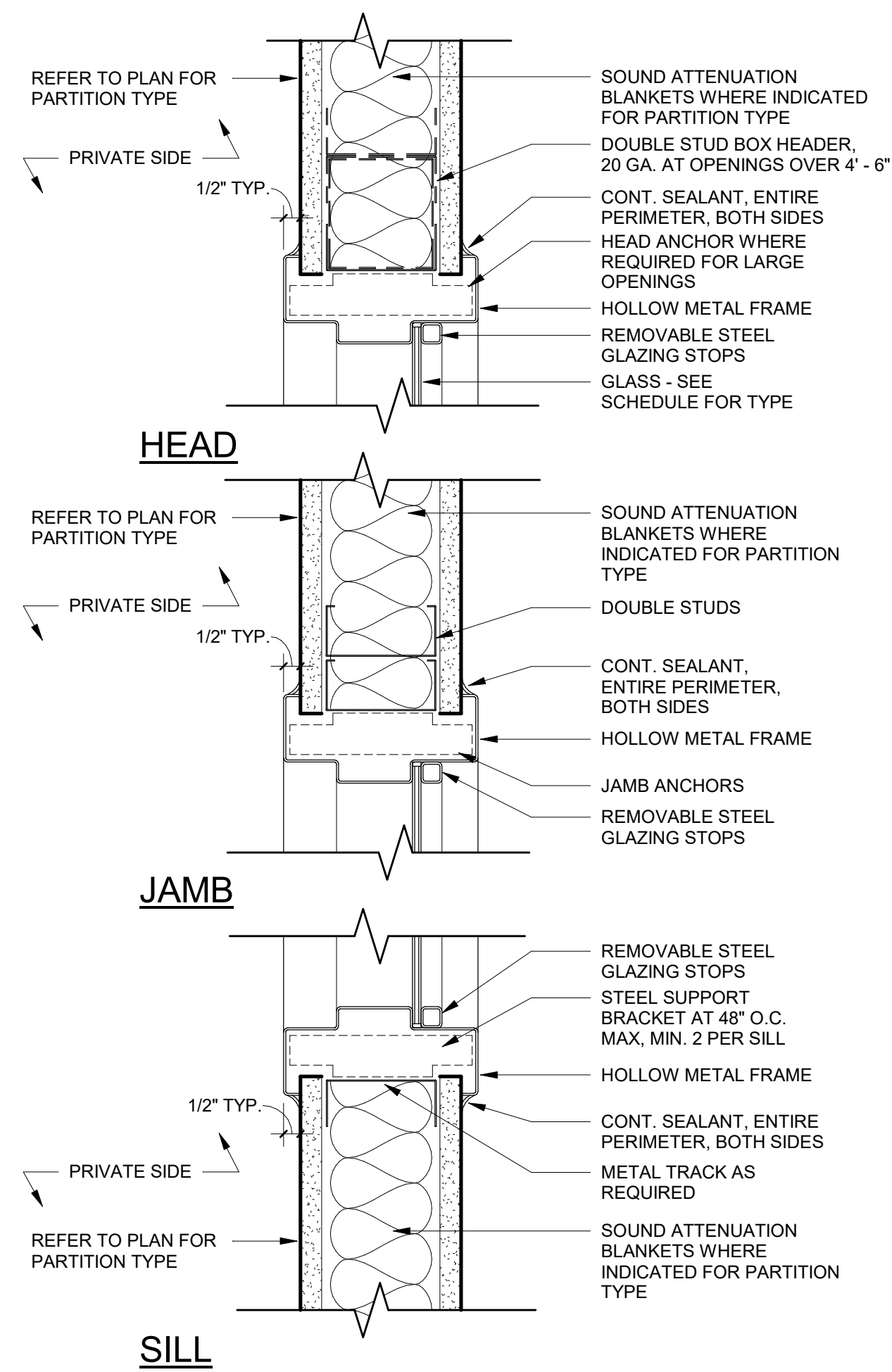
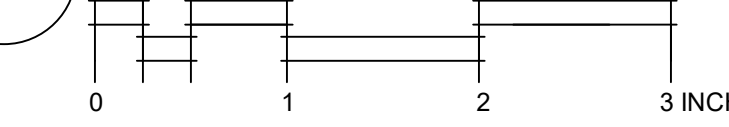
2 DETAIL - FLSH_Brick on CMU Sill



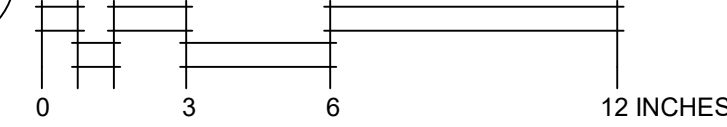
3 FLUSH HEMMED FLASHING



4 FLUSH HEMMED FLASHING AT LOOSE LINTEL



5 DETAIL - HM WINDOW IN STUD





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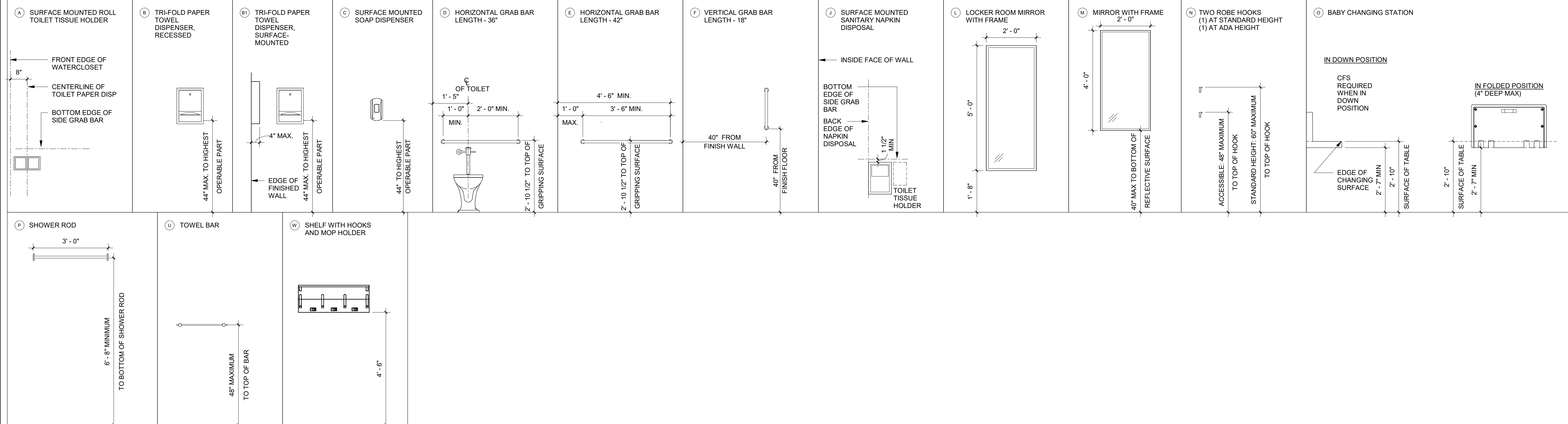
REVISIONS	

DR. BY	NK
CK. BY	LS
PROJ. NO.	A01122
DATE	03/03/23

WINDOW DETAILS

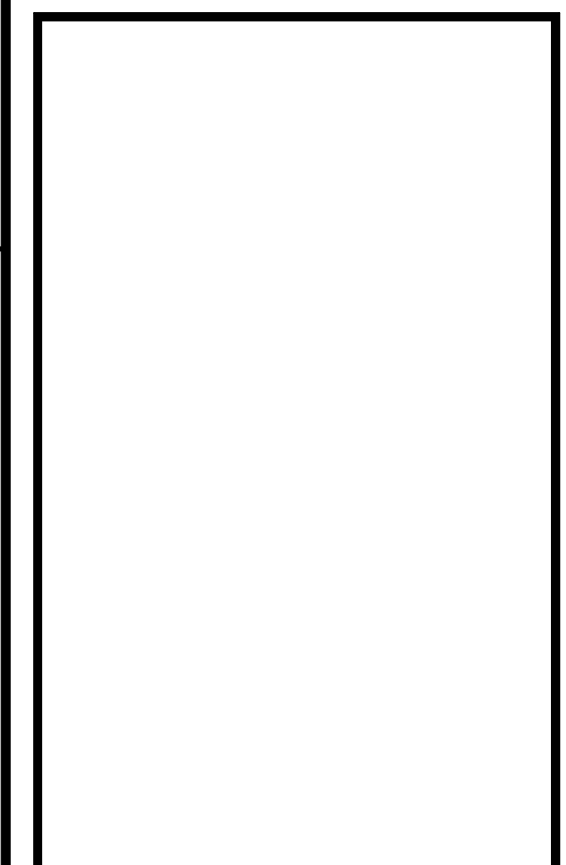
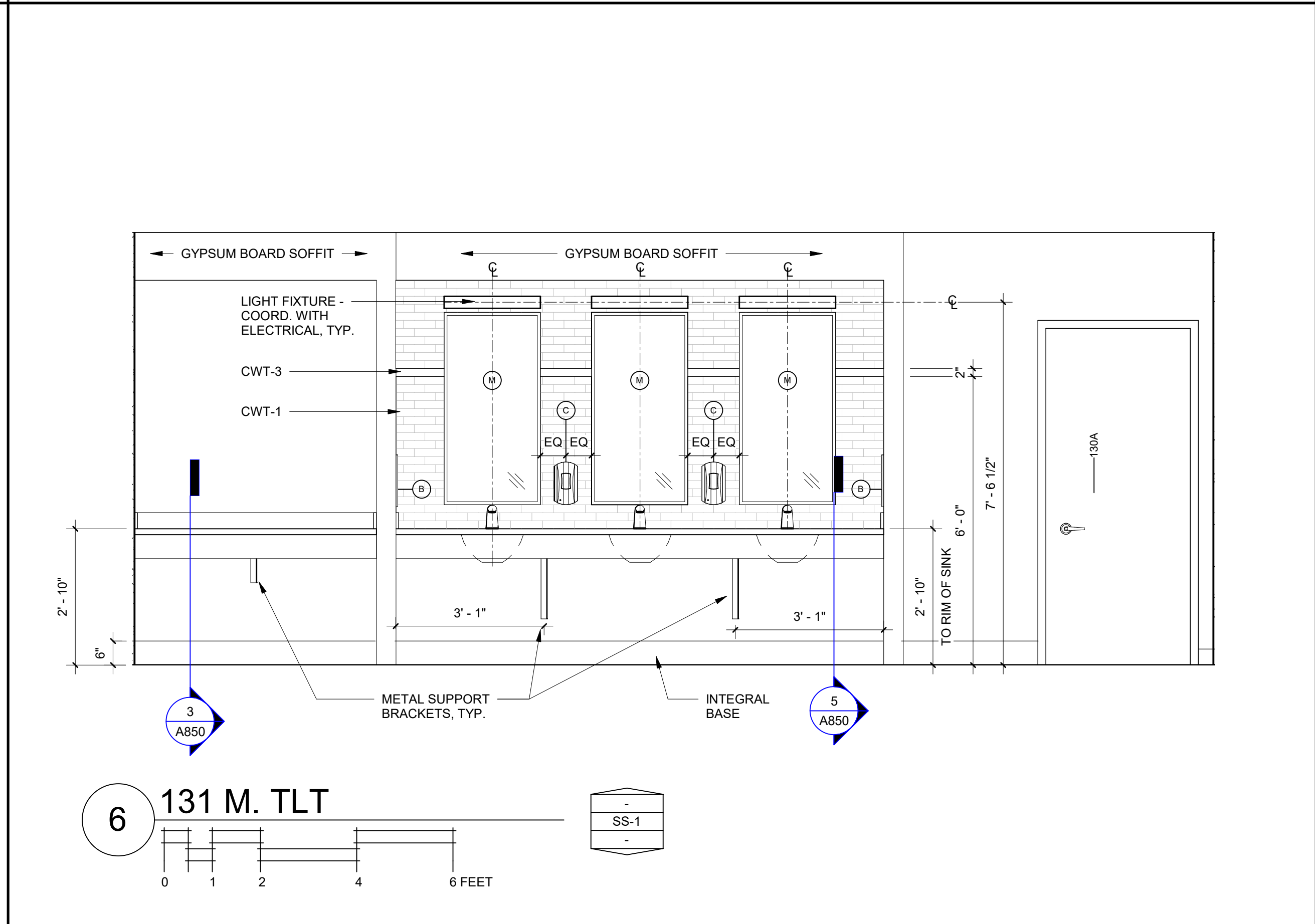
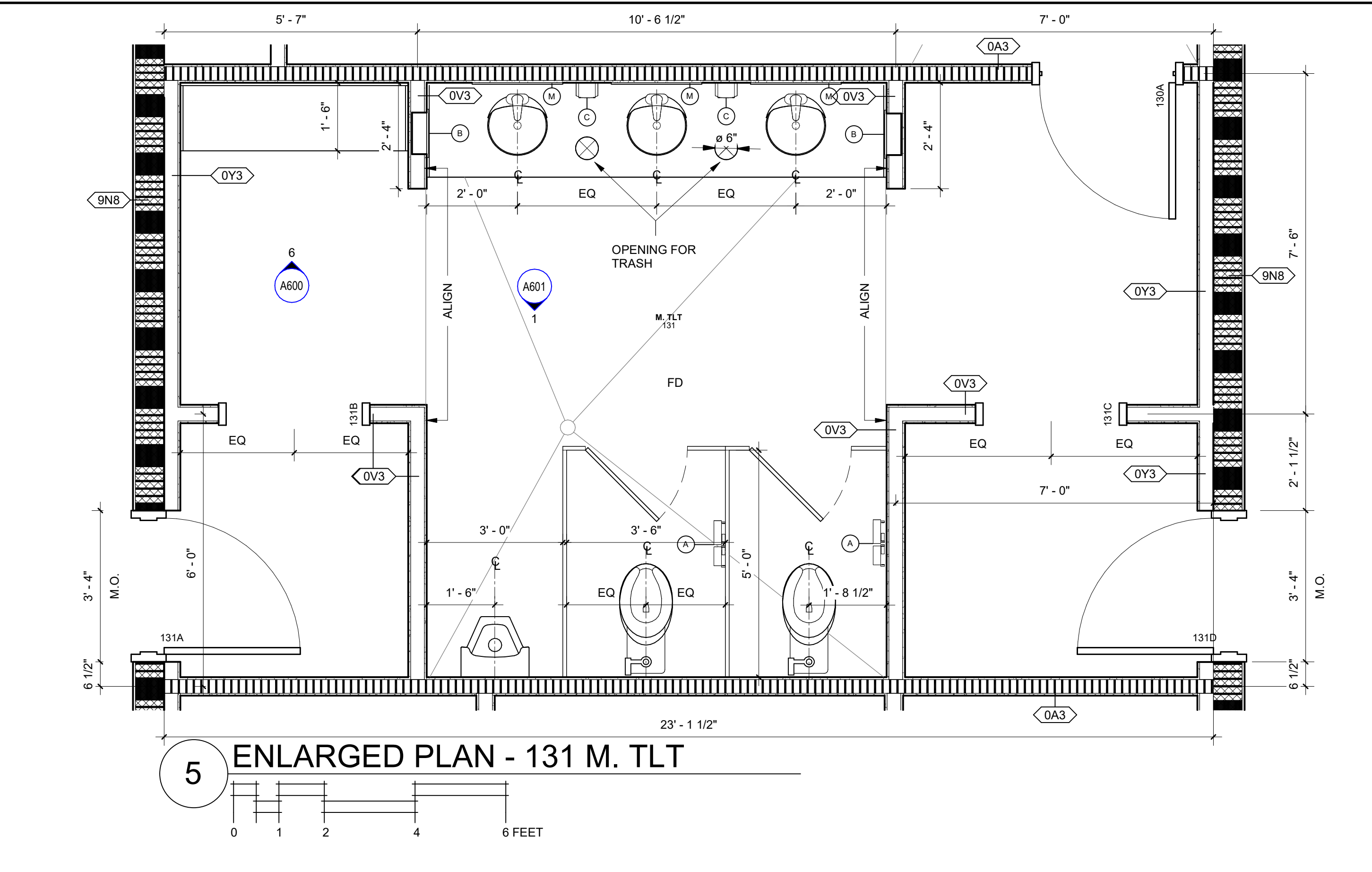
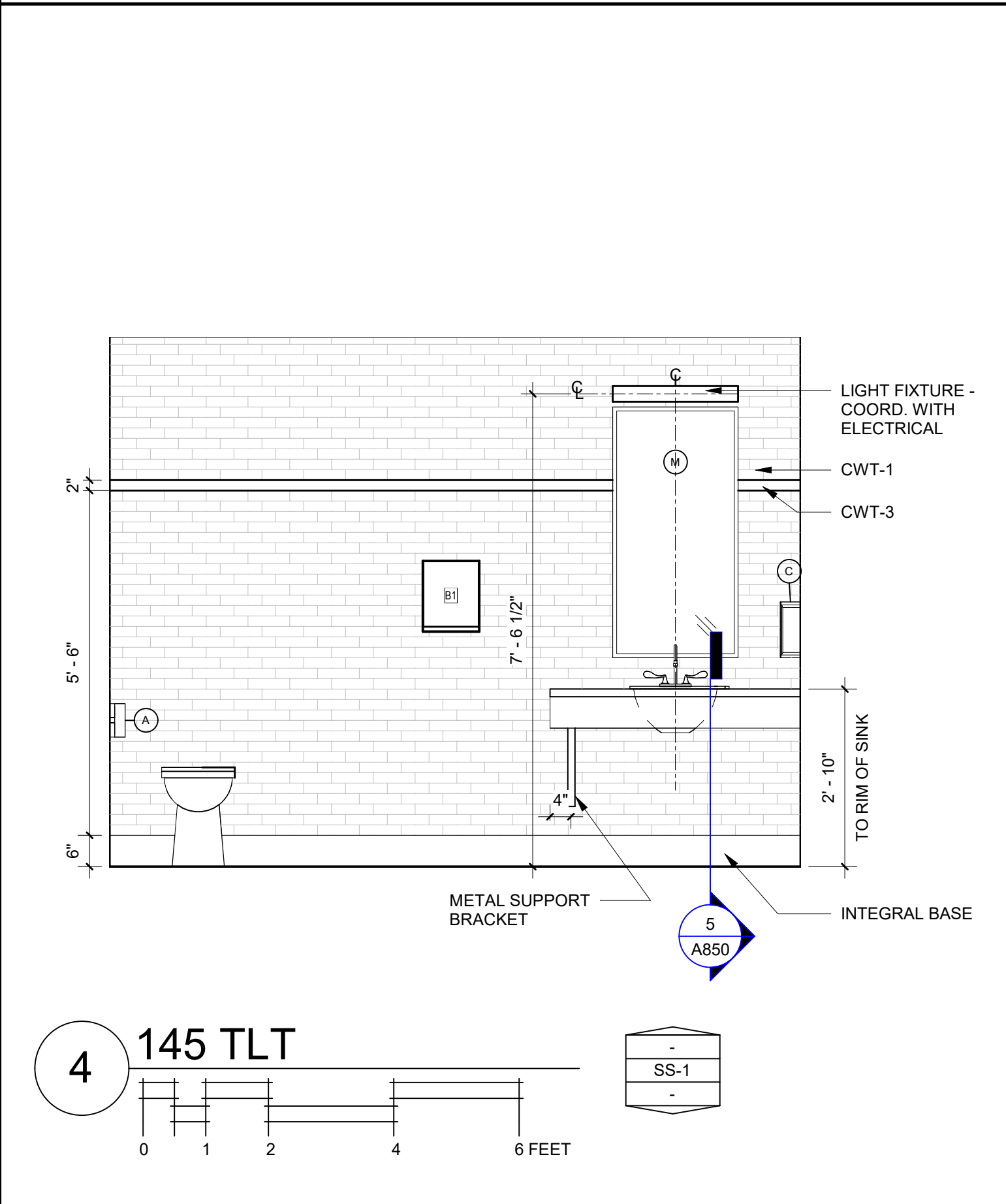
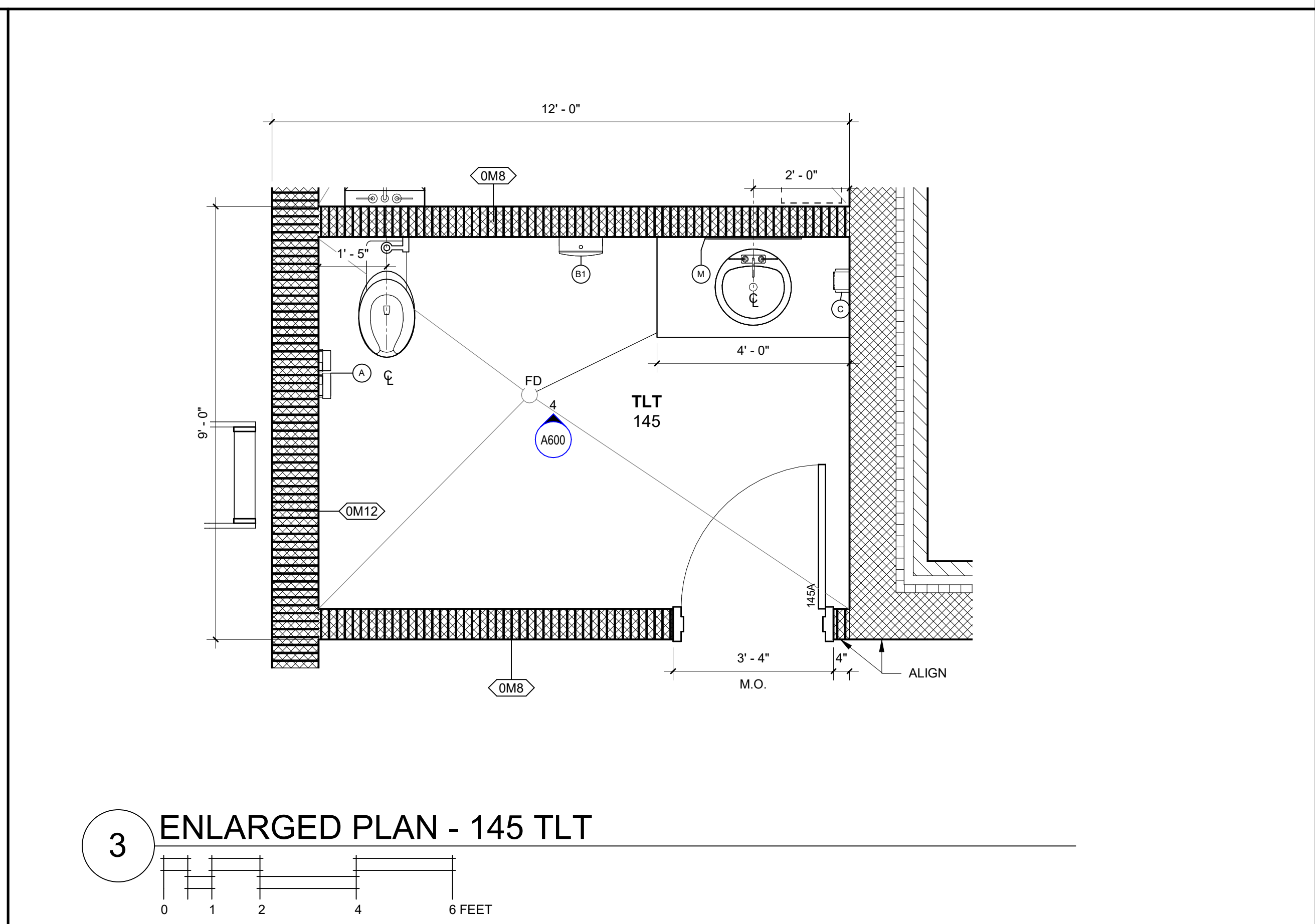
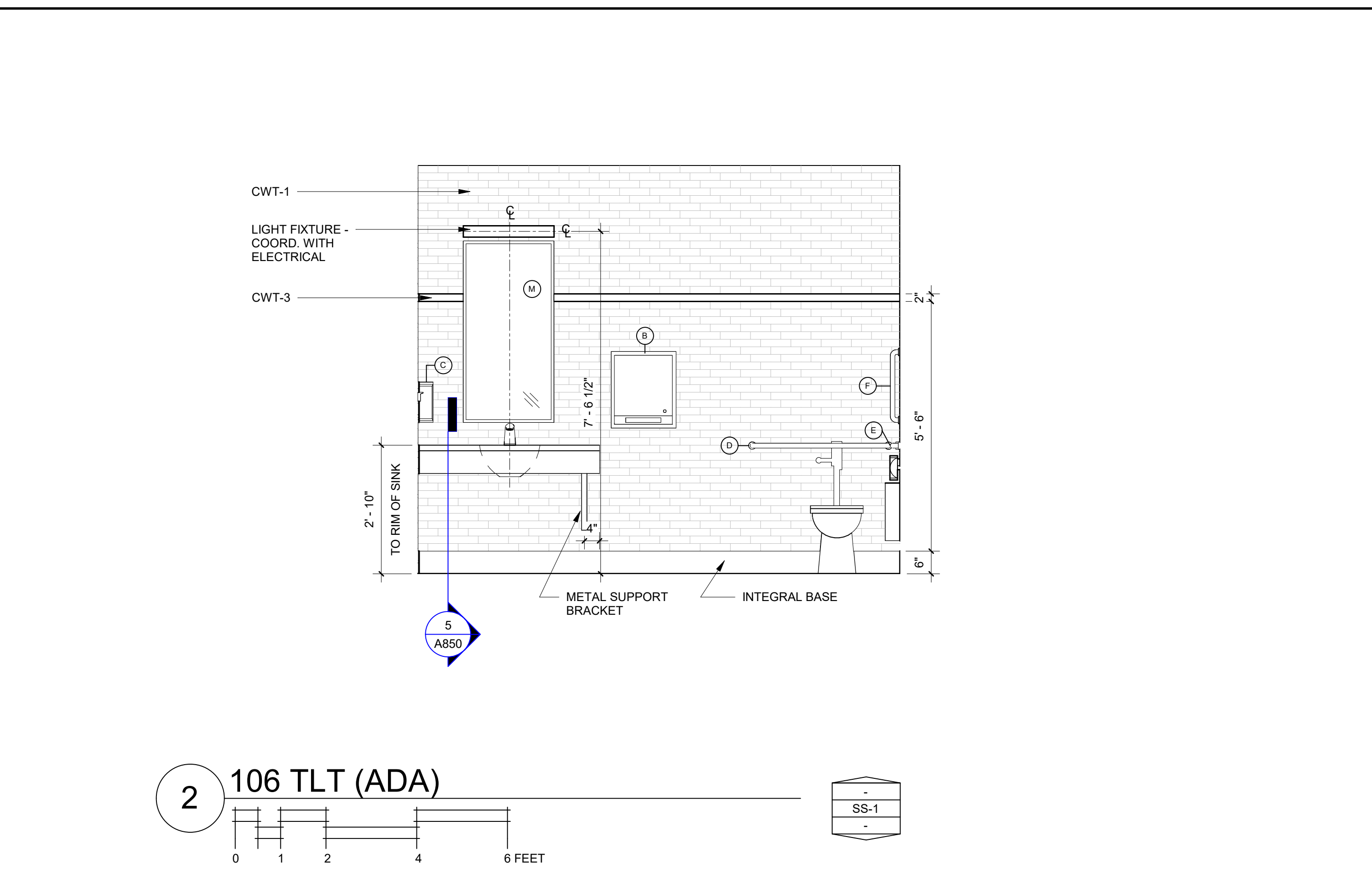
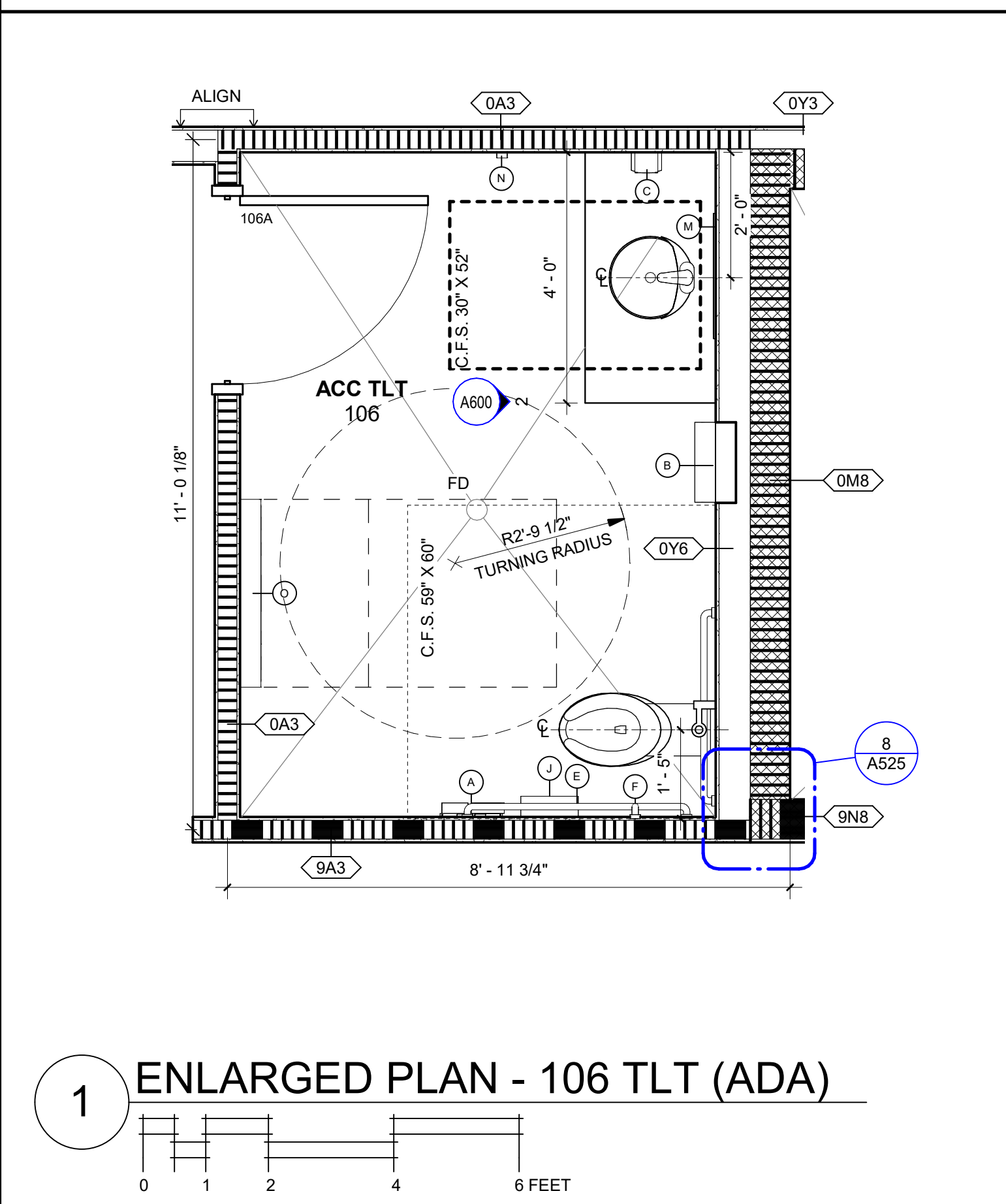
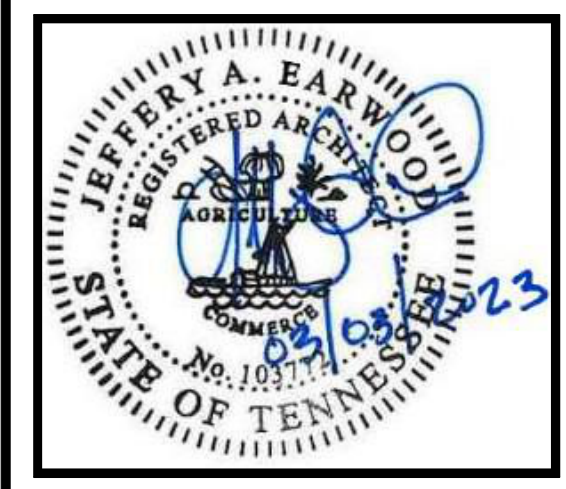
A579

TOILET ACCESSORY LEGEND

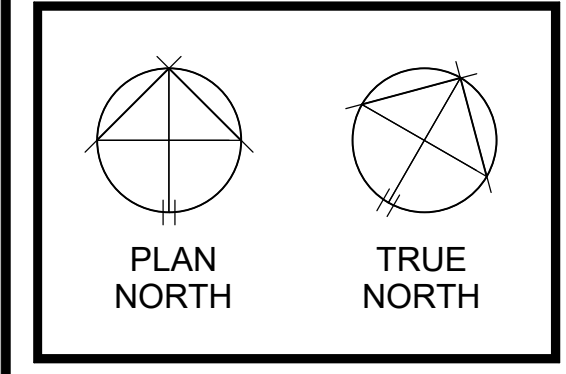


- TOILET ACCESSORY GENERAL NOTES**
1. PROVIDE ACCESSORY ITEMS "B" AND "C" WHERE INDICATED AND AT EACH LAVATORY.
 2. C.F.S. DENOTES "CLEAR FLOOR SPACE" AS REQUIRED BY ACCESSIBILITY CODE.
 3. COORDINATE WITH DETAILS ON SHEET G175 FOR GRAB BAR ATTACHMENT.
 4. COORDINATE WITH DETAILS ON SHEET G176 FOR FOLDING SHOWER SEAT ATTACHMENT.
 5. COORDINATE WITH G175 FOR ADDITIONAL TOILET ACCESSORIES CLEARANCES.

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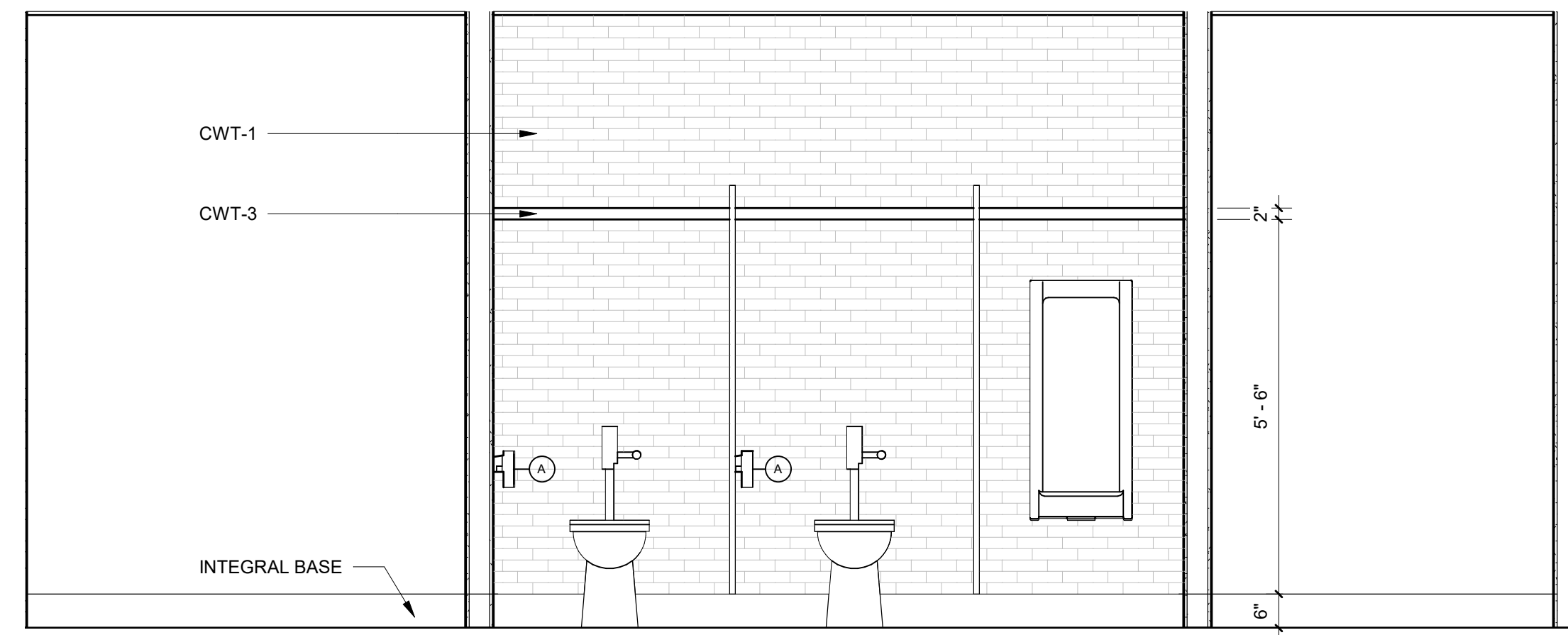


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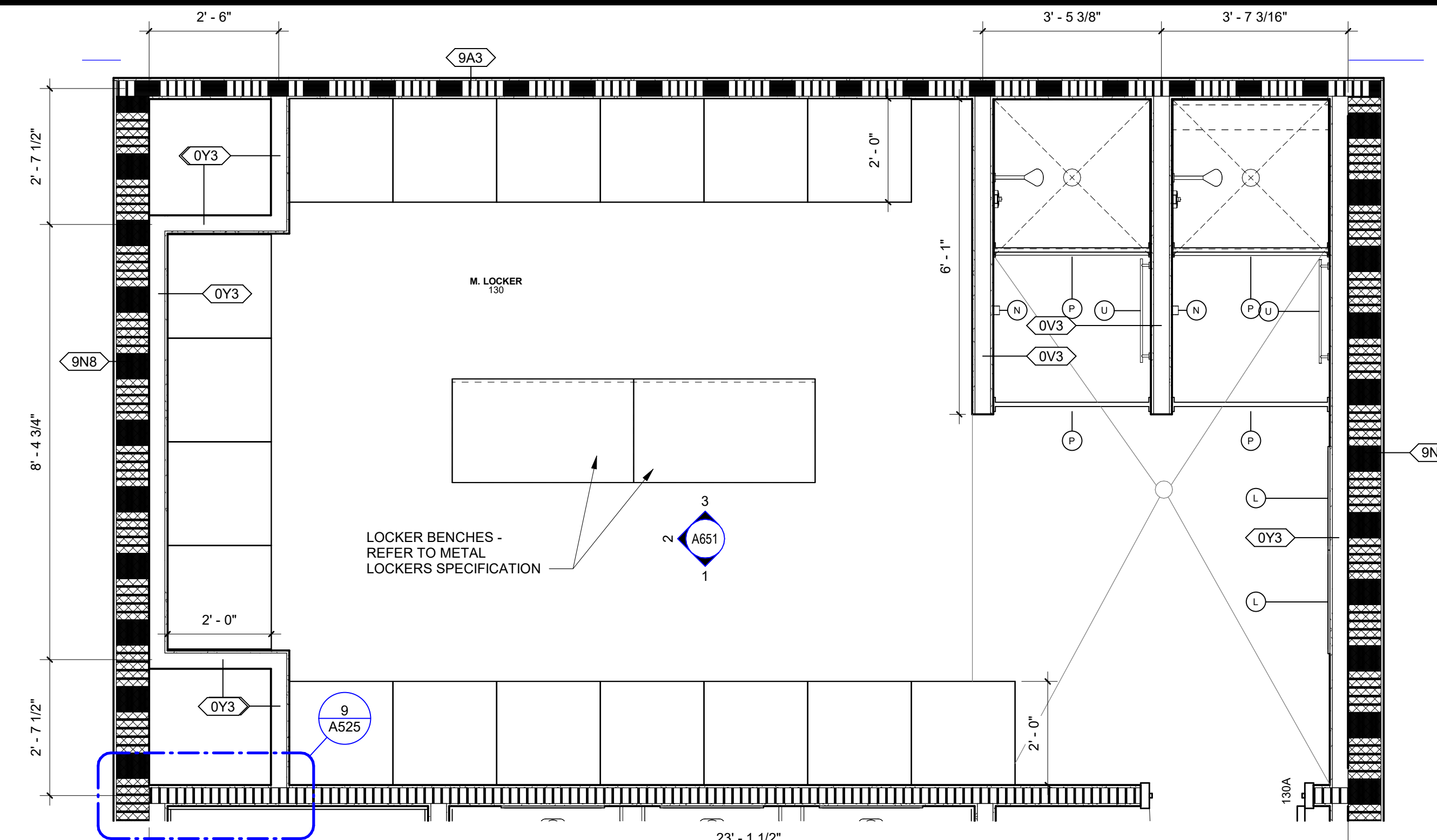
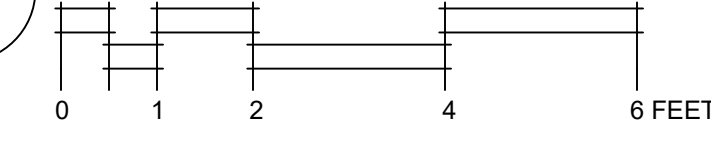
NO.	DESCRIPTION	DATE

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 DATE 03/03/23
**ENLARGED PLANS
 AND ELEVATIONS**

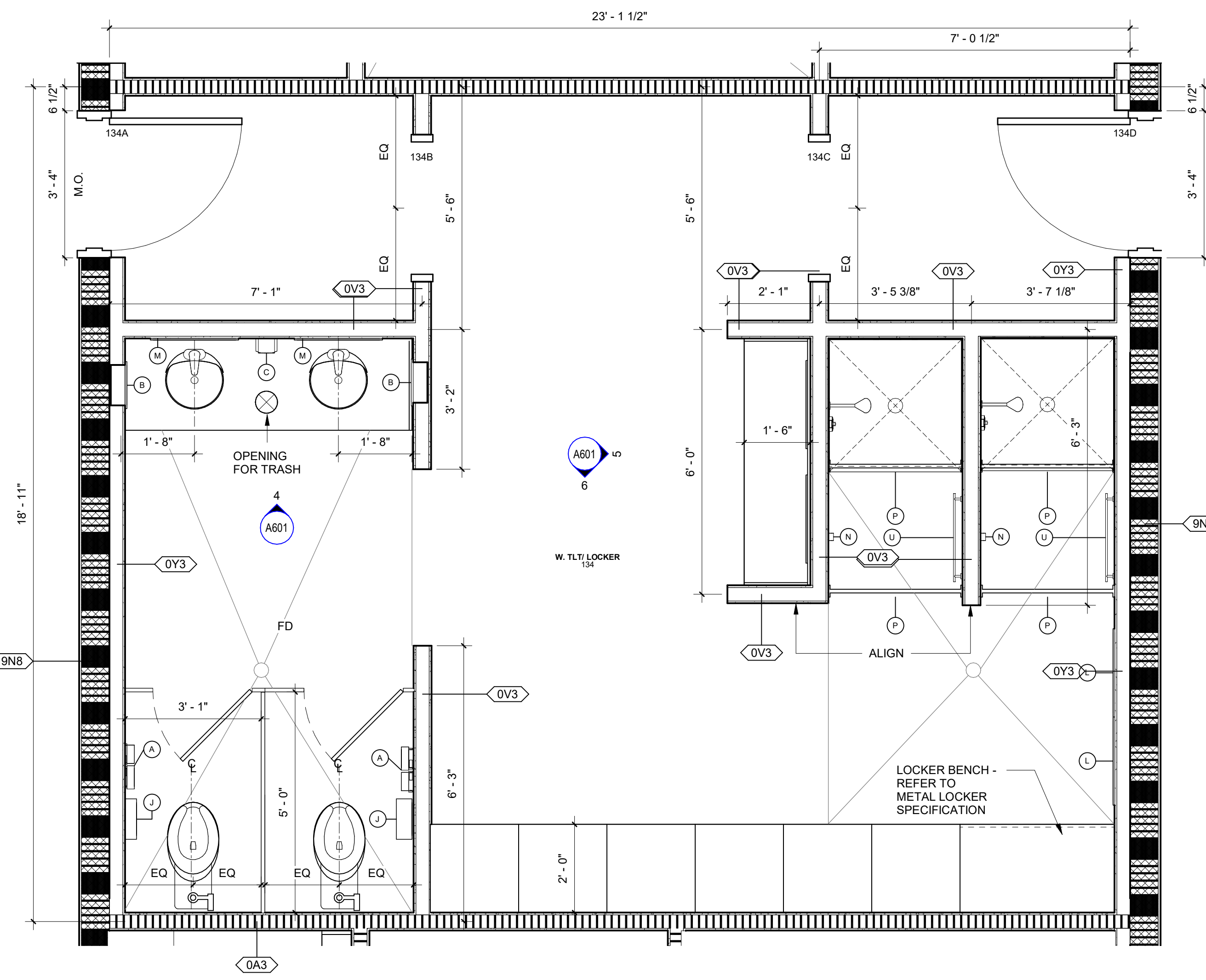
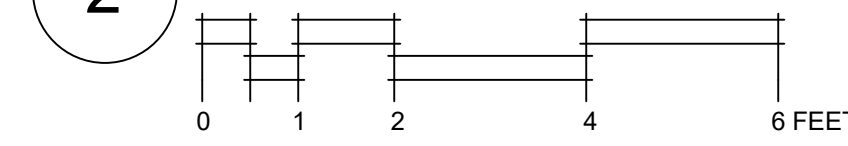
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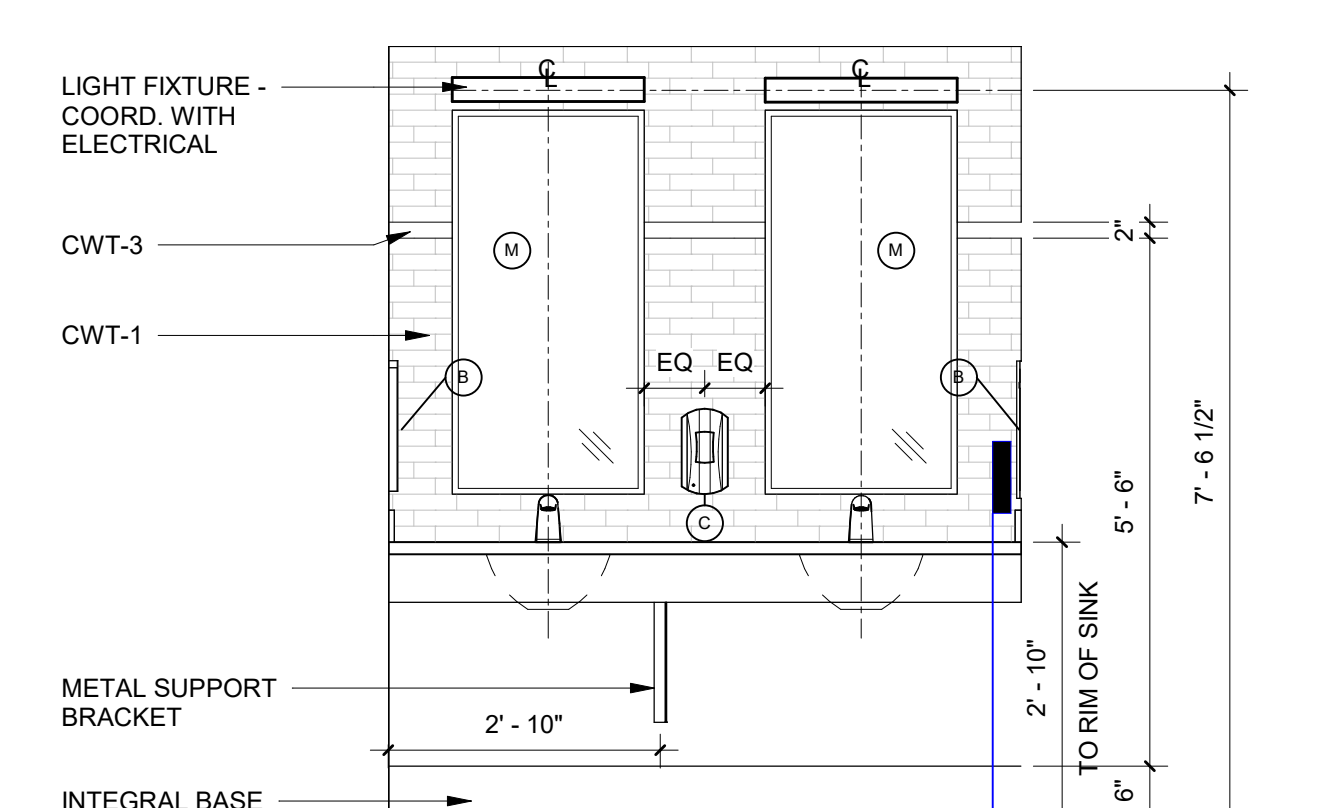
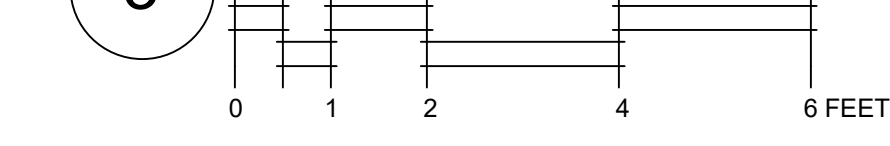
1 131 M. TLT



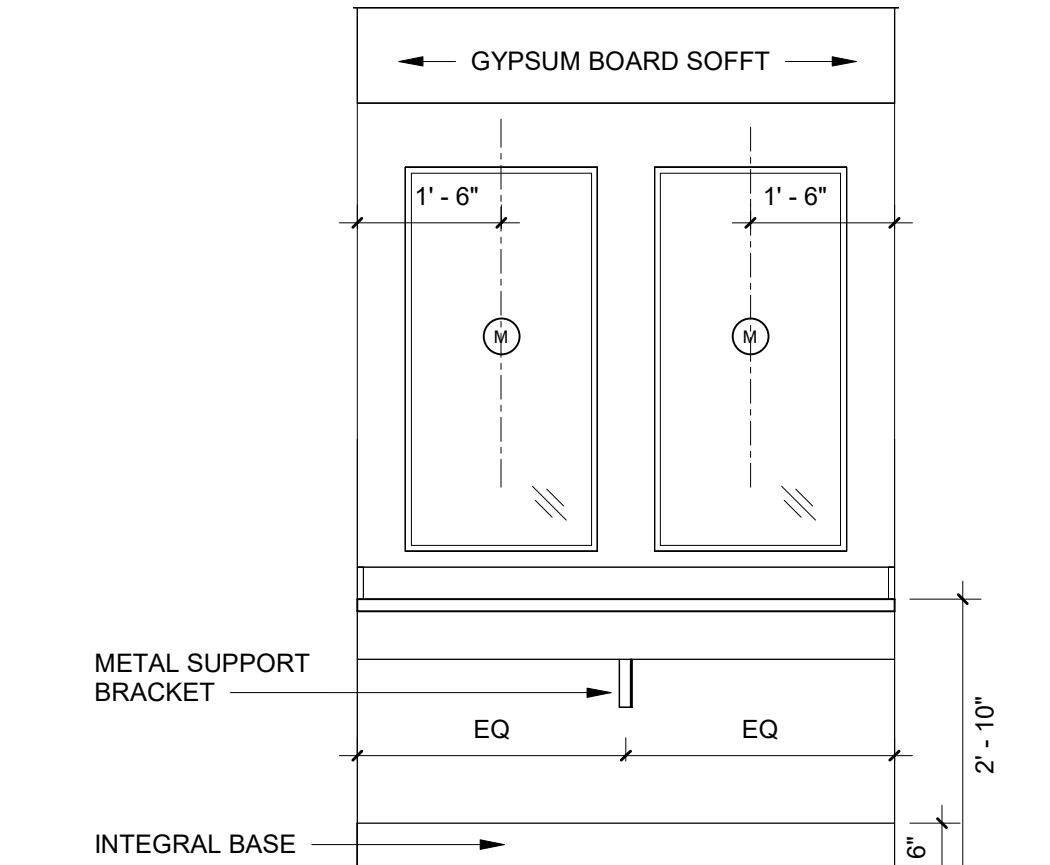
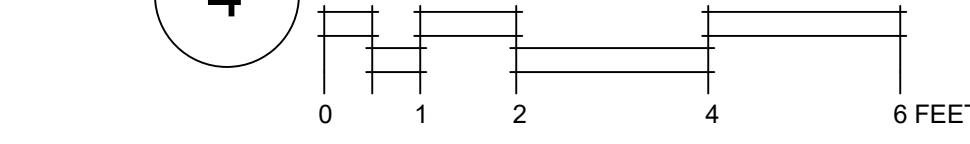
2 ENLARGED PLAN - 130 M. LOCKER



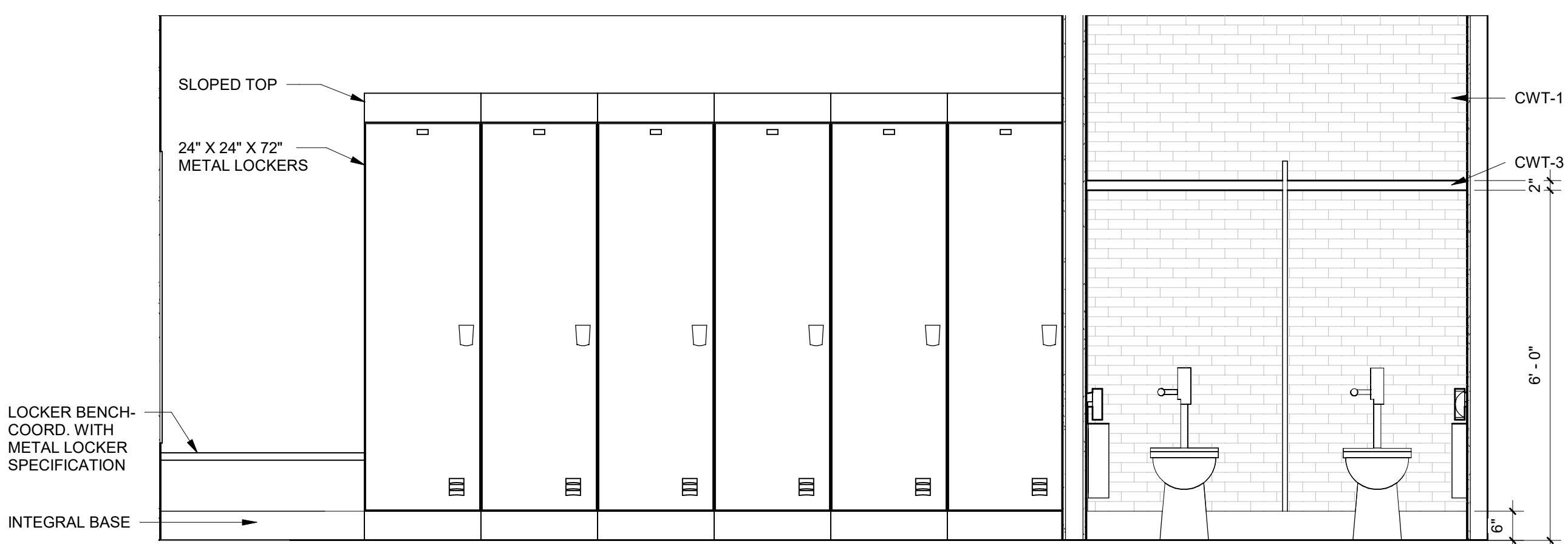
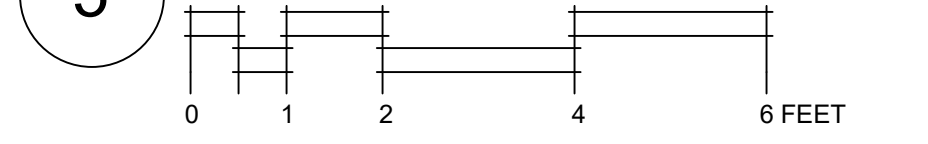
3 ENLARGED PLAN - 134 W. TLT/LOCKER



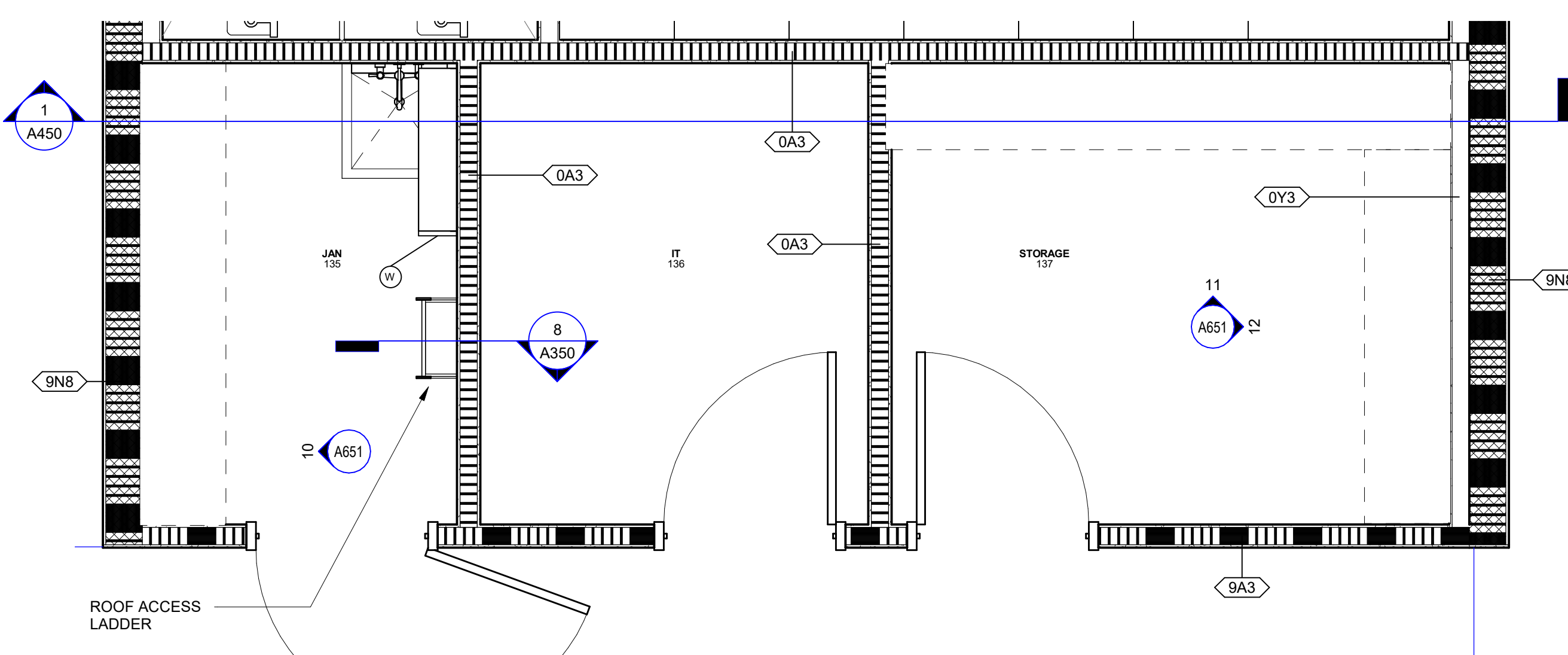
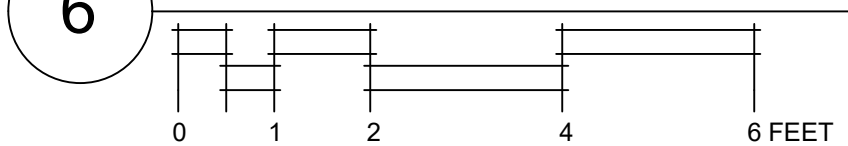
4 134 WOMEN TLT



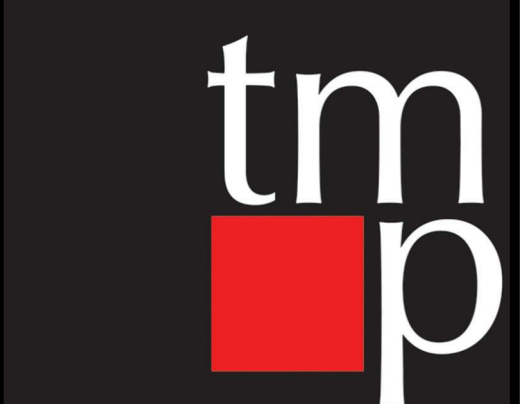
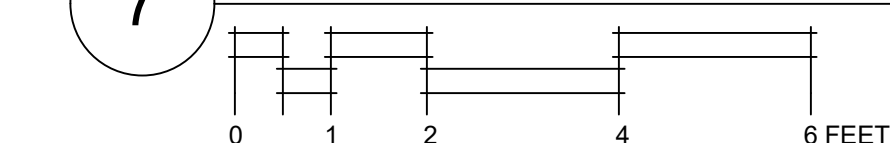
5 134 WOMEN TLT



6 134 WOMEN TLT/LOCKER

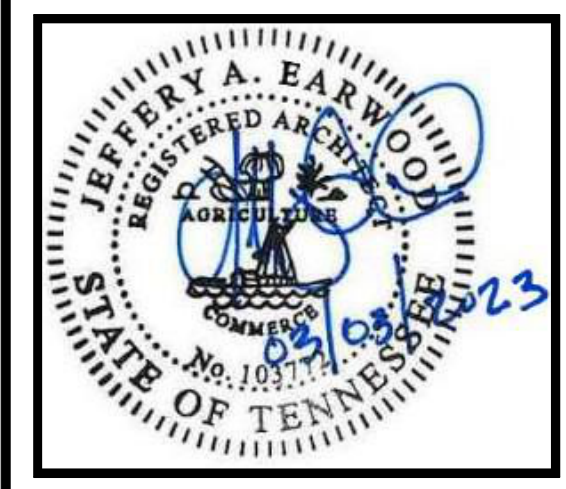


7 ENLARGED PLAN - 135, 136, & 137



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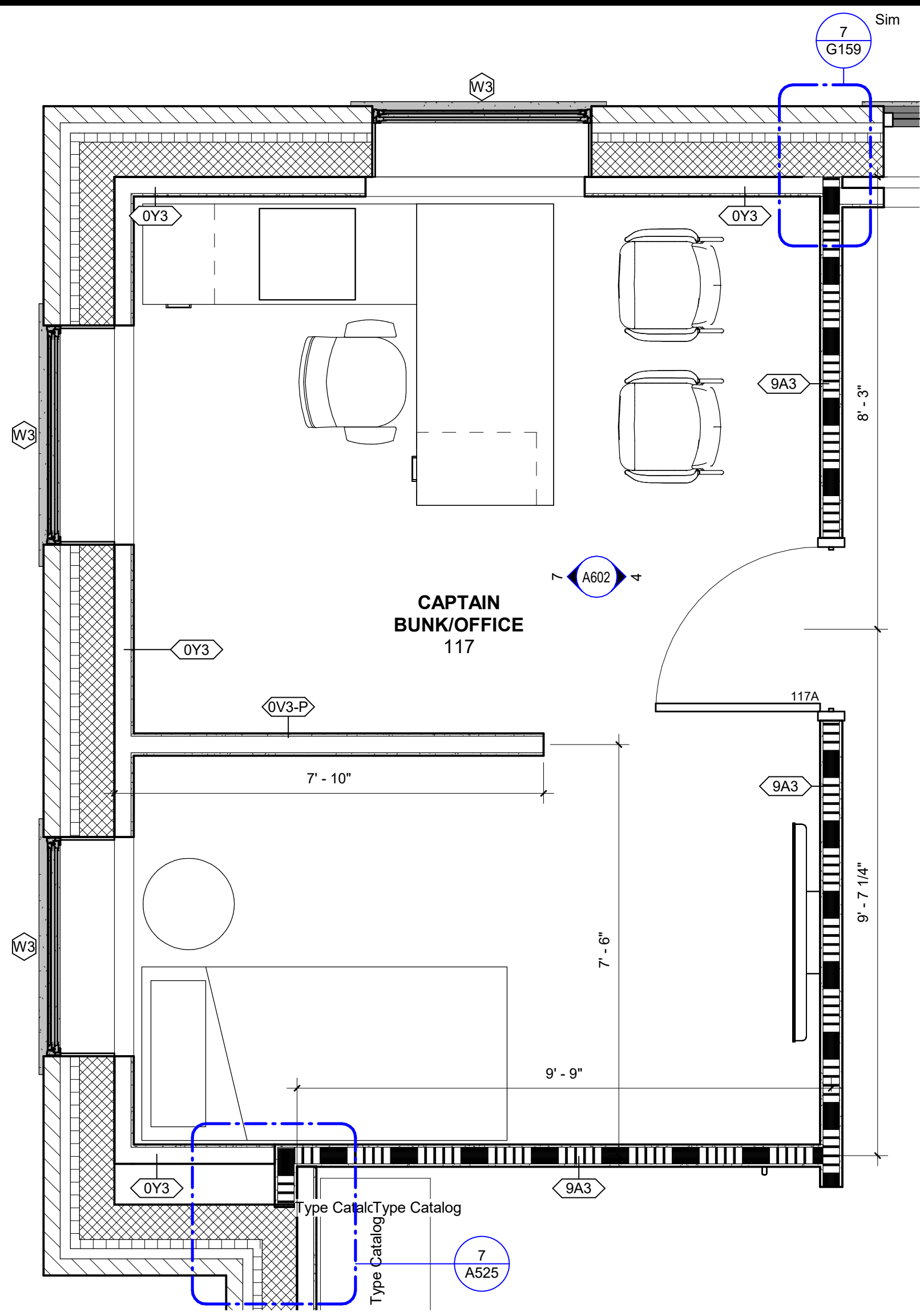
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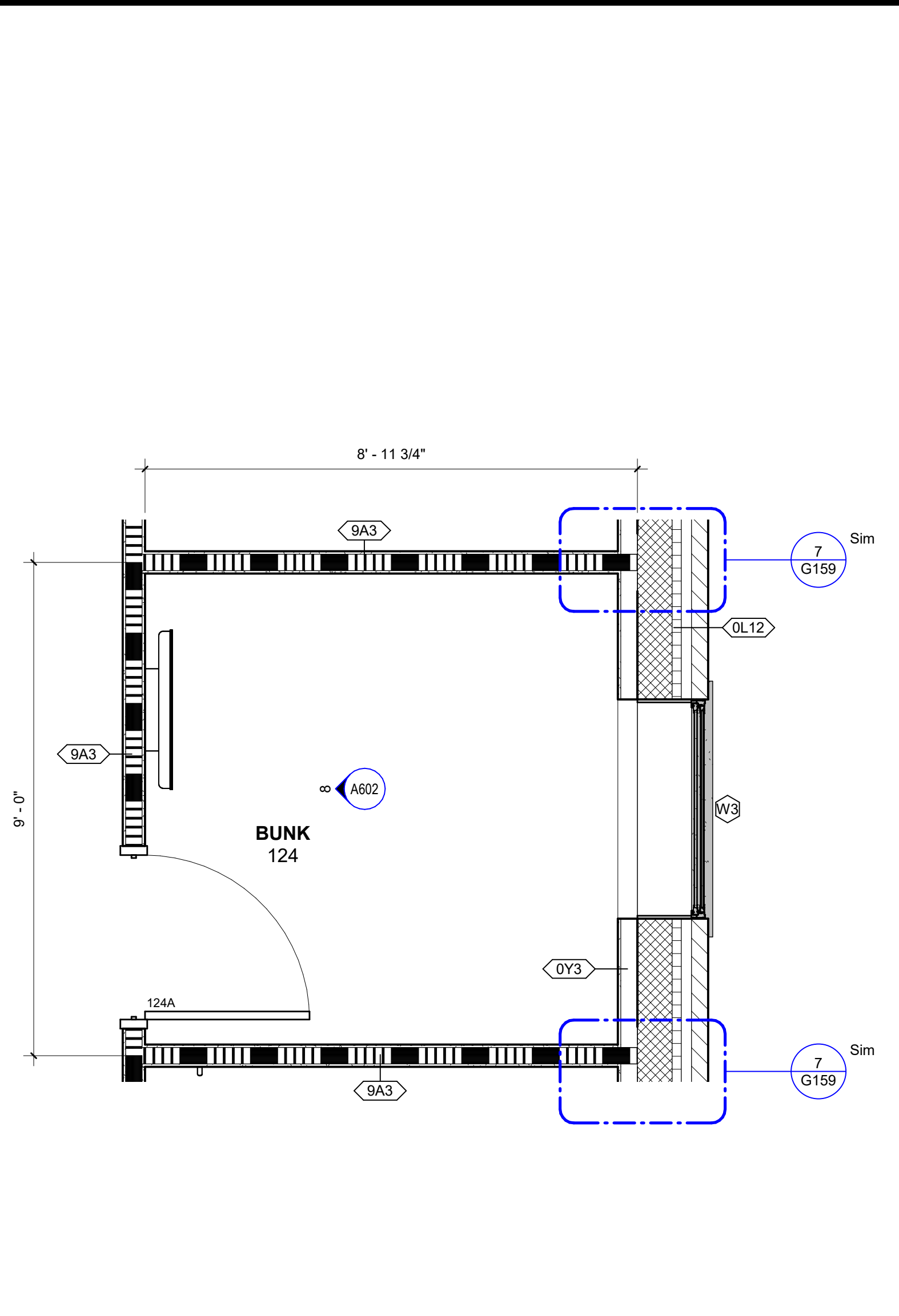
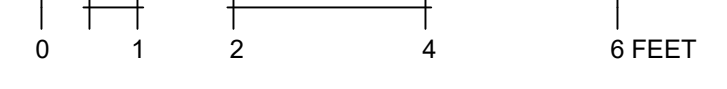
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DATE 03/03/23

ENLARGED PLANS AND ELEVATIONS

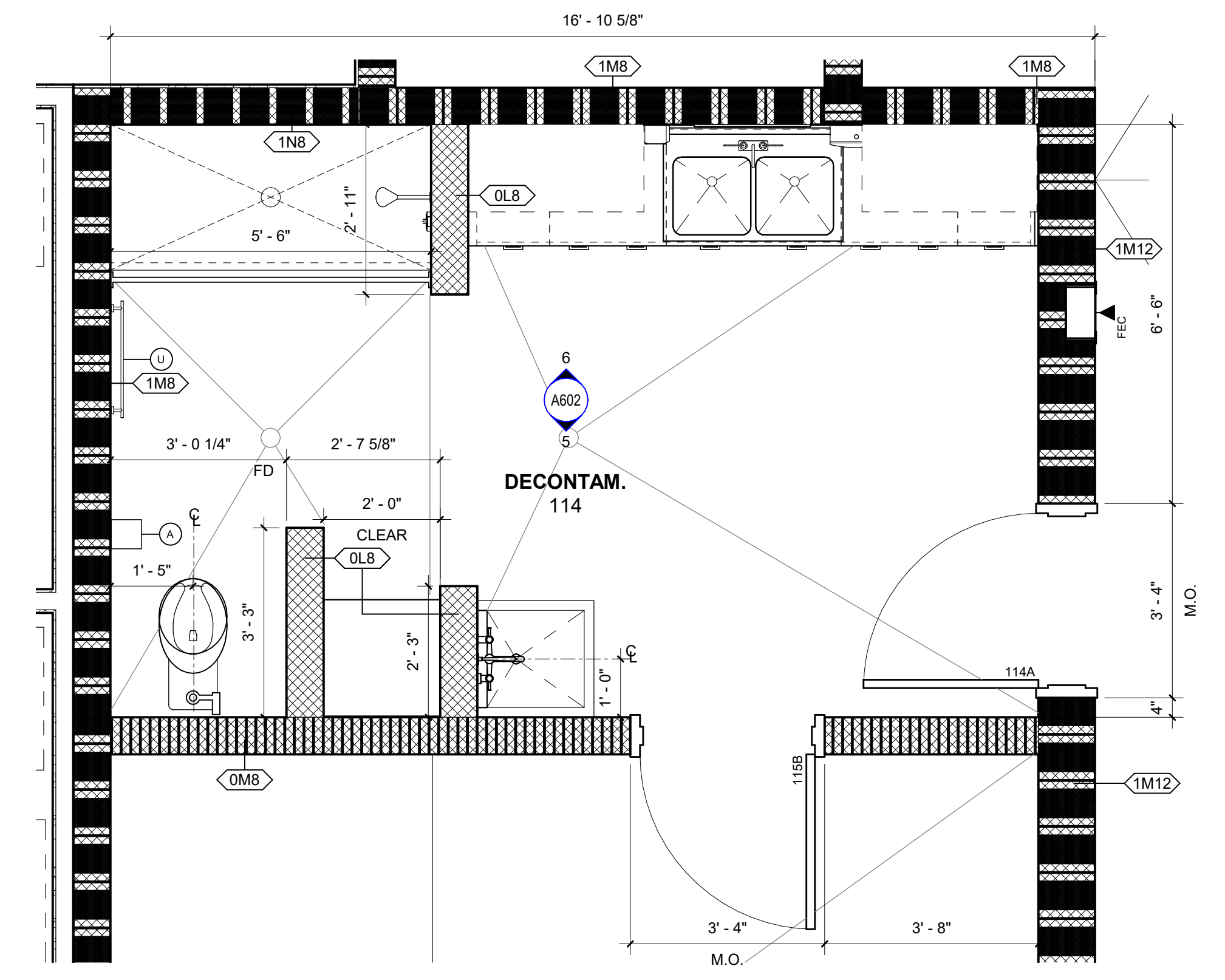
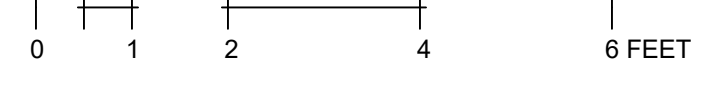
A601



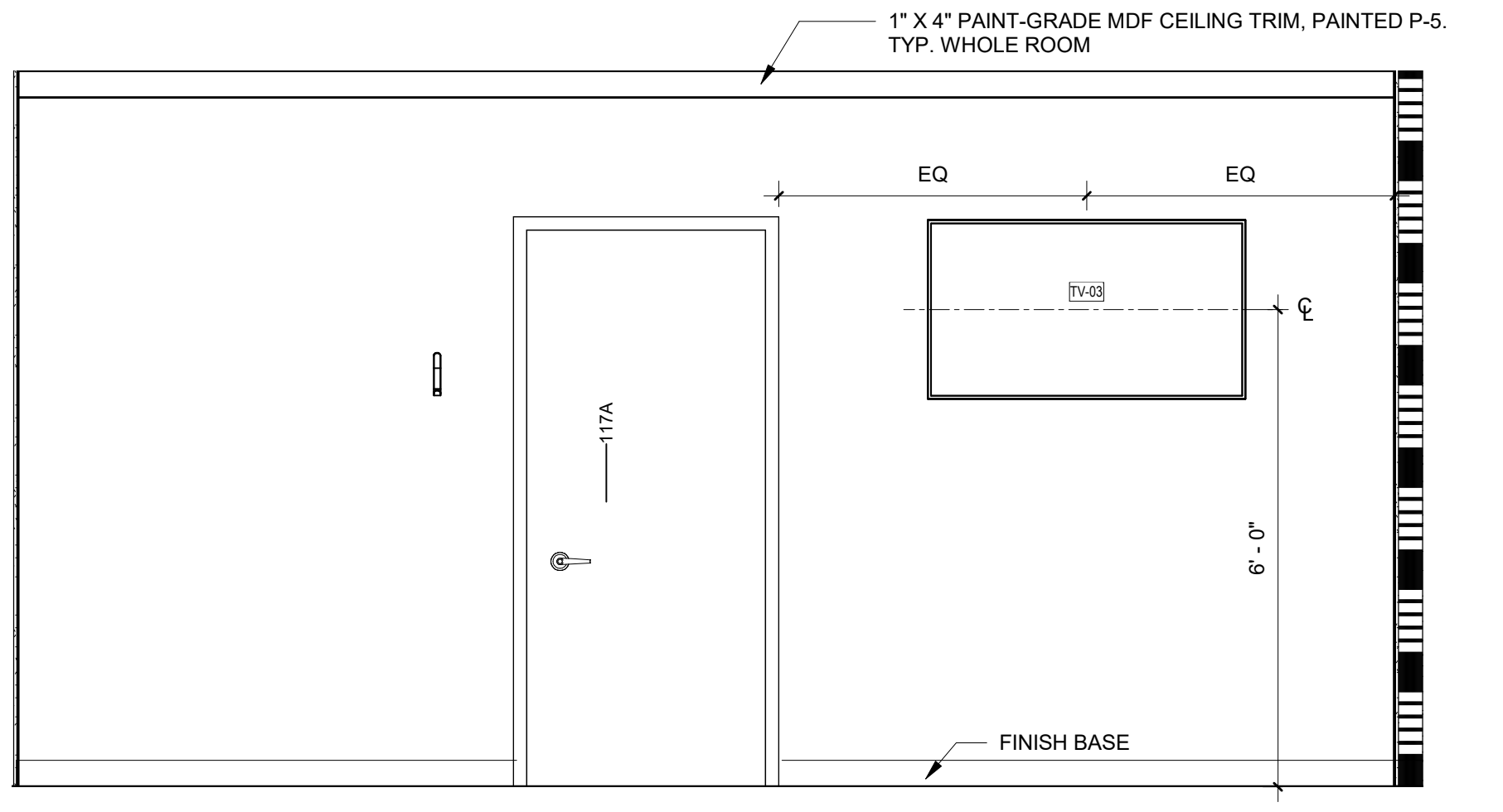
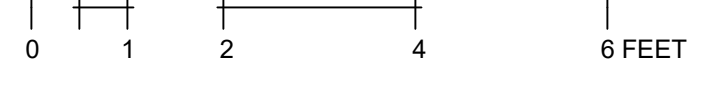
1 ENLARGED PLAN - 117 CAPTAIN BUNK/OFFICE



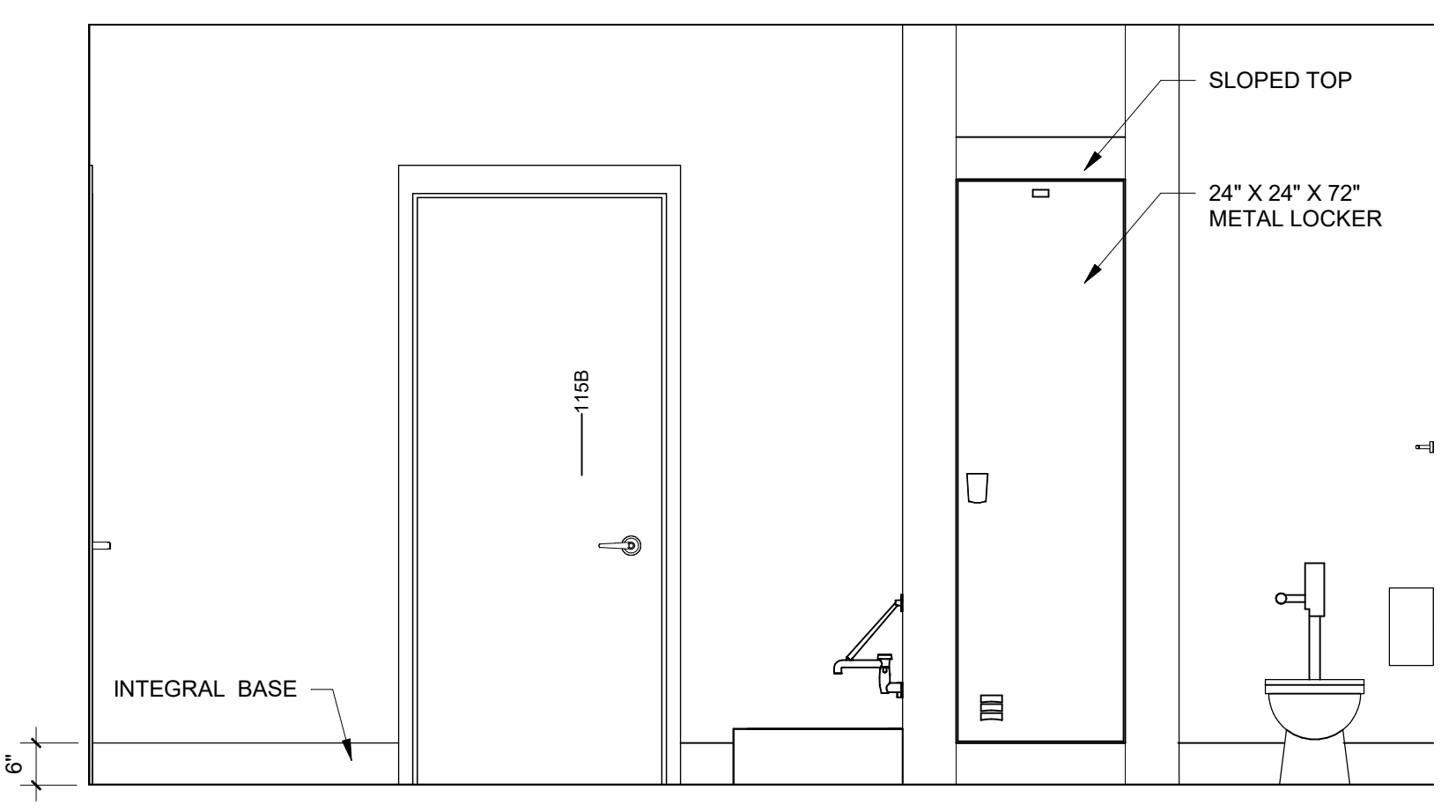
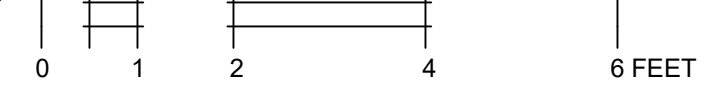
2 ENLARGED PLAN - TYPICAL BUNK ROOM



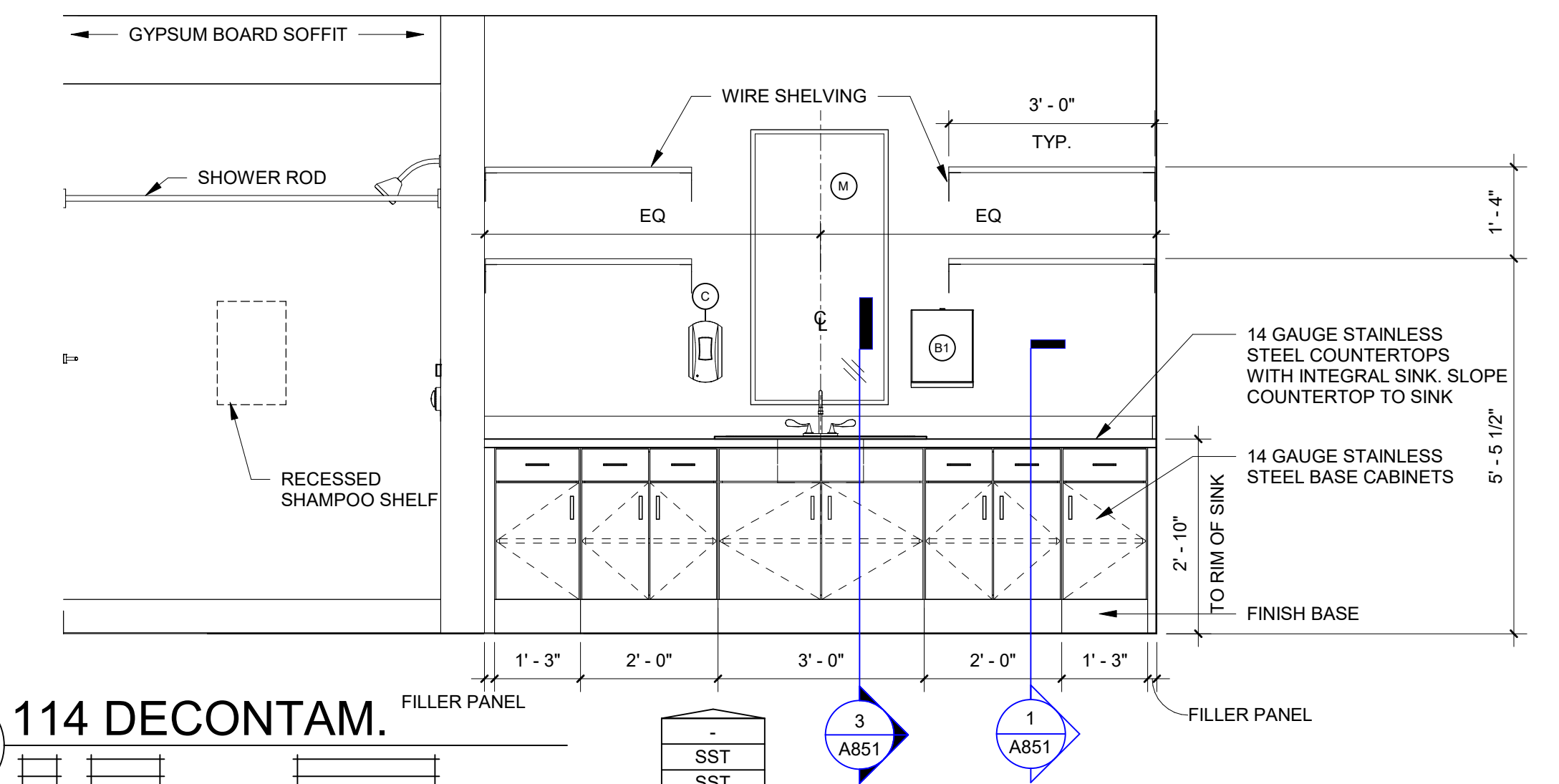
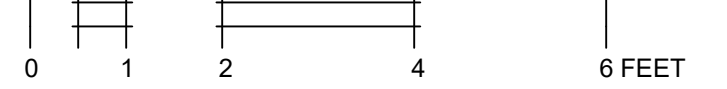
3 ENLARGED PLAN - 114 DECONTAM.



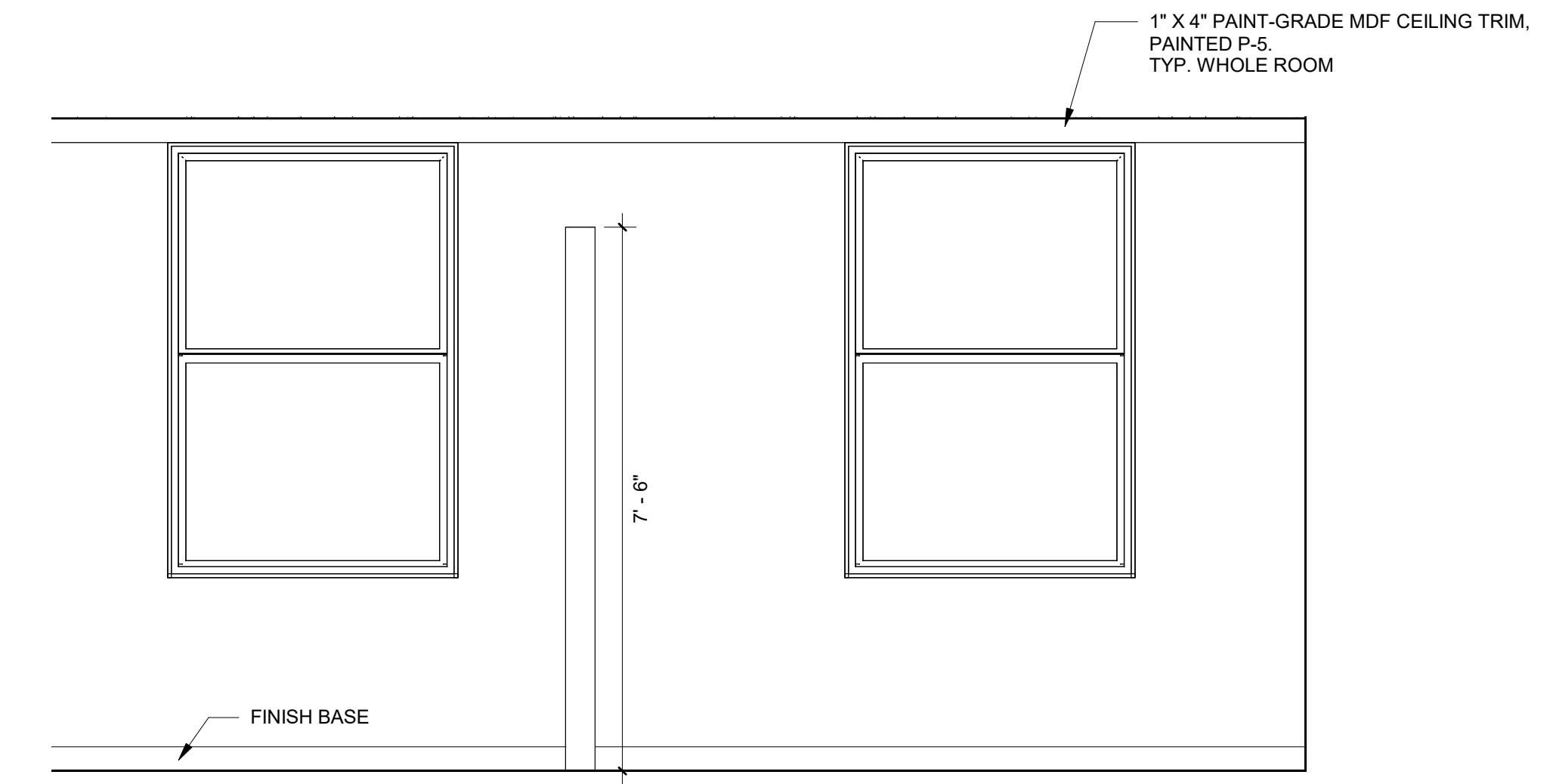
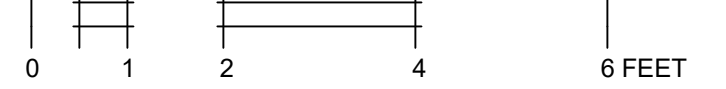
4 117 CAPTAIN BUNK/OFFICE



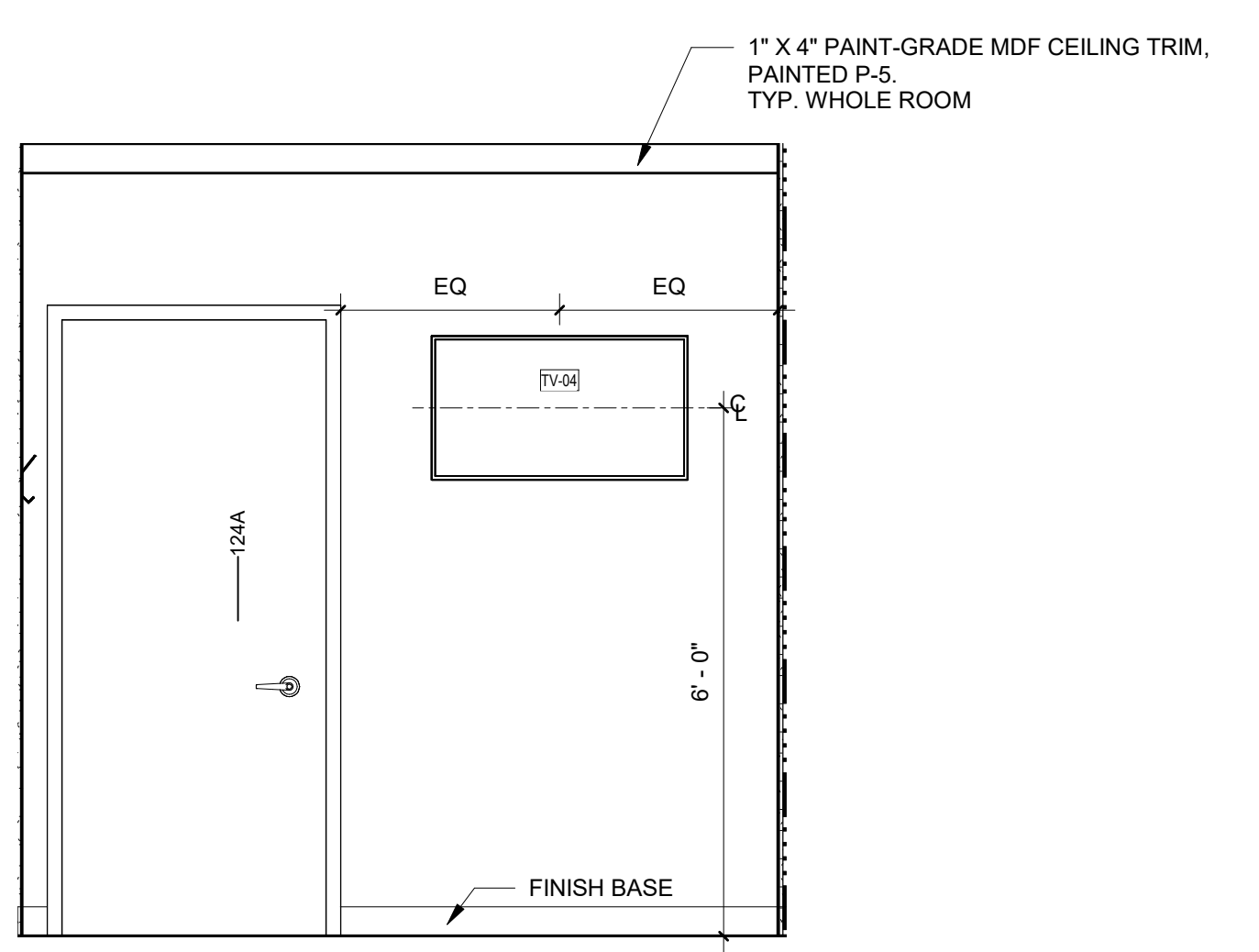
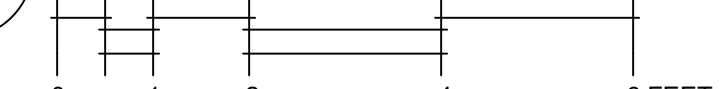
5 114 DECONTAM.



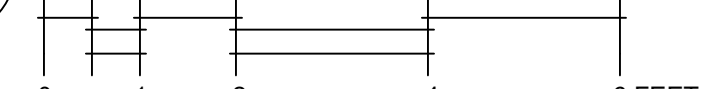
6 114 DECONTAM.



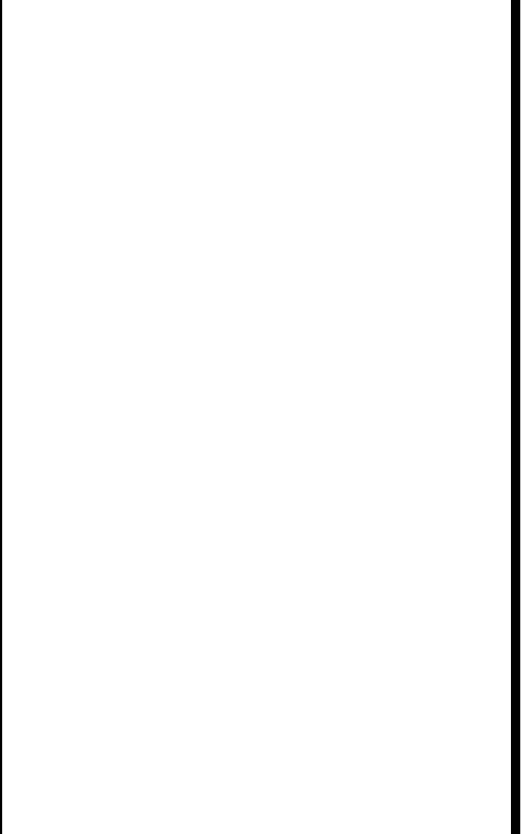
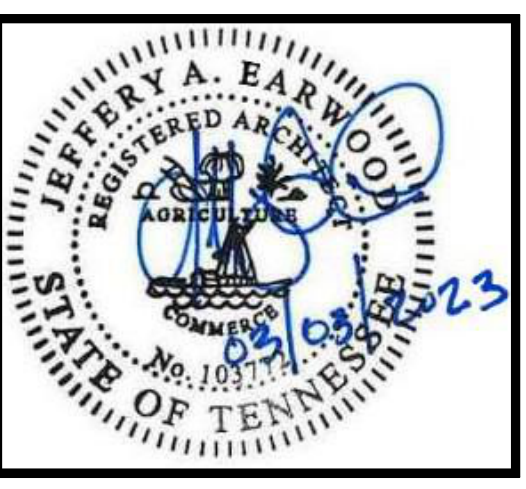
7 117 CAPTAIN BUNK/OFFICE



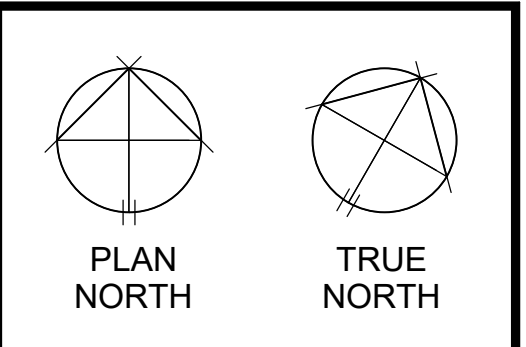
8 TYPICAL BUNK ROOM ELEVATION



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 615.370.4147 Fax
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**TOWN OF NOLENSVILLE
 FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE**

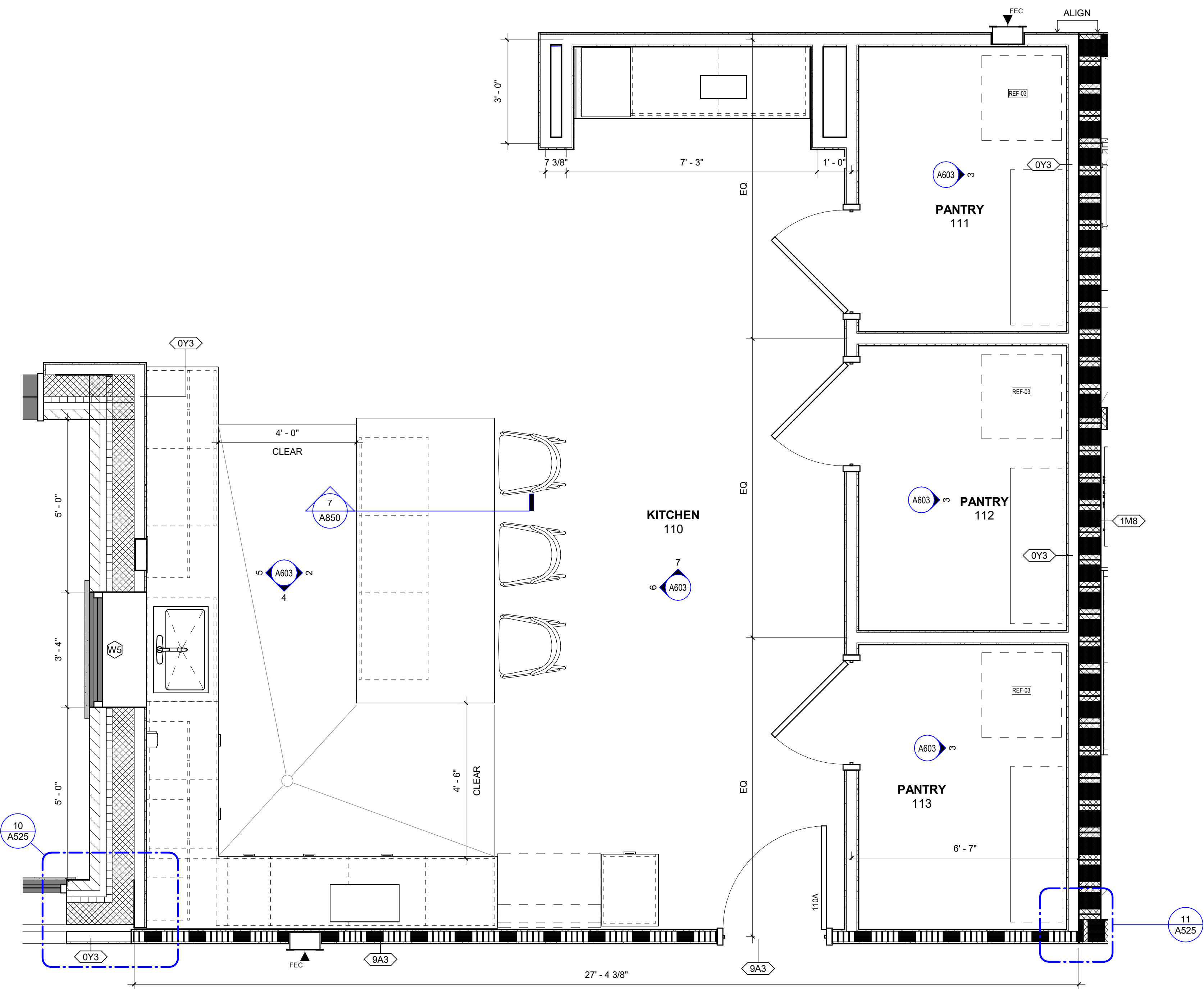


REVISIONS	

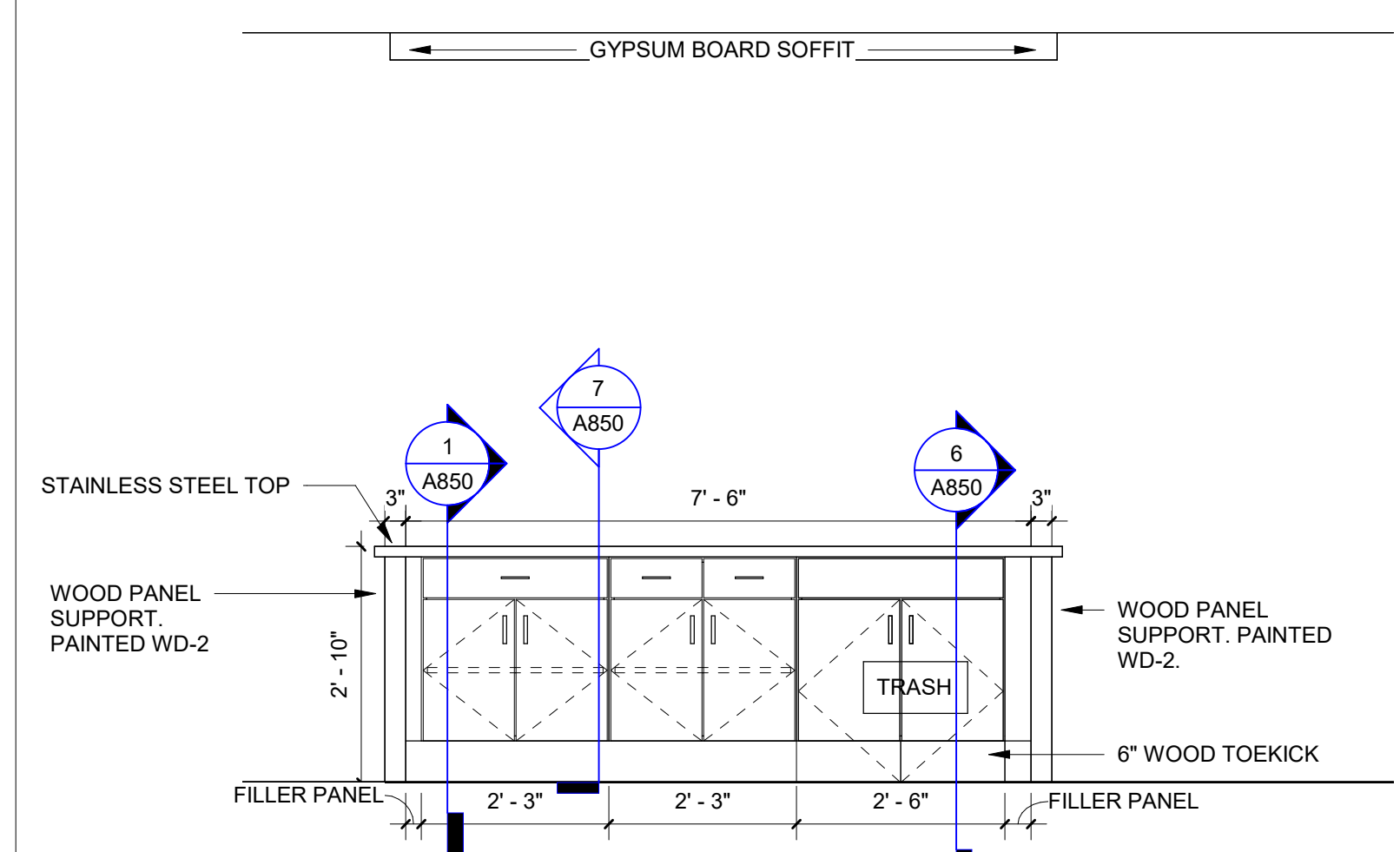
DR. BY SH, KK
 CK. BY JE, LS
 PROJ. NO. A01122
 DATE 03/03/23

**ENLARGED PLANS
 AND ELEVATIONS**

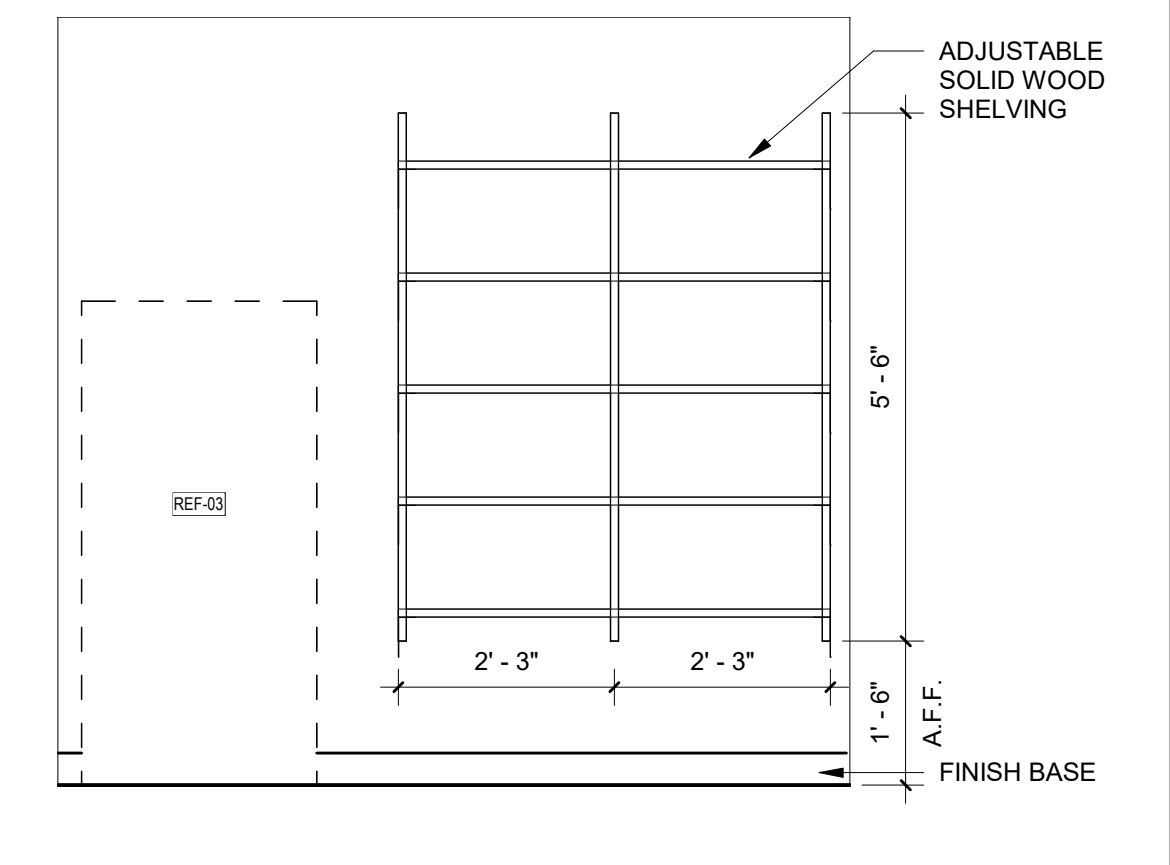
A602



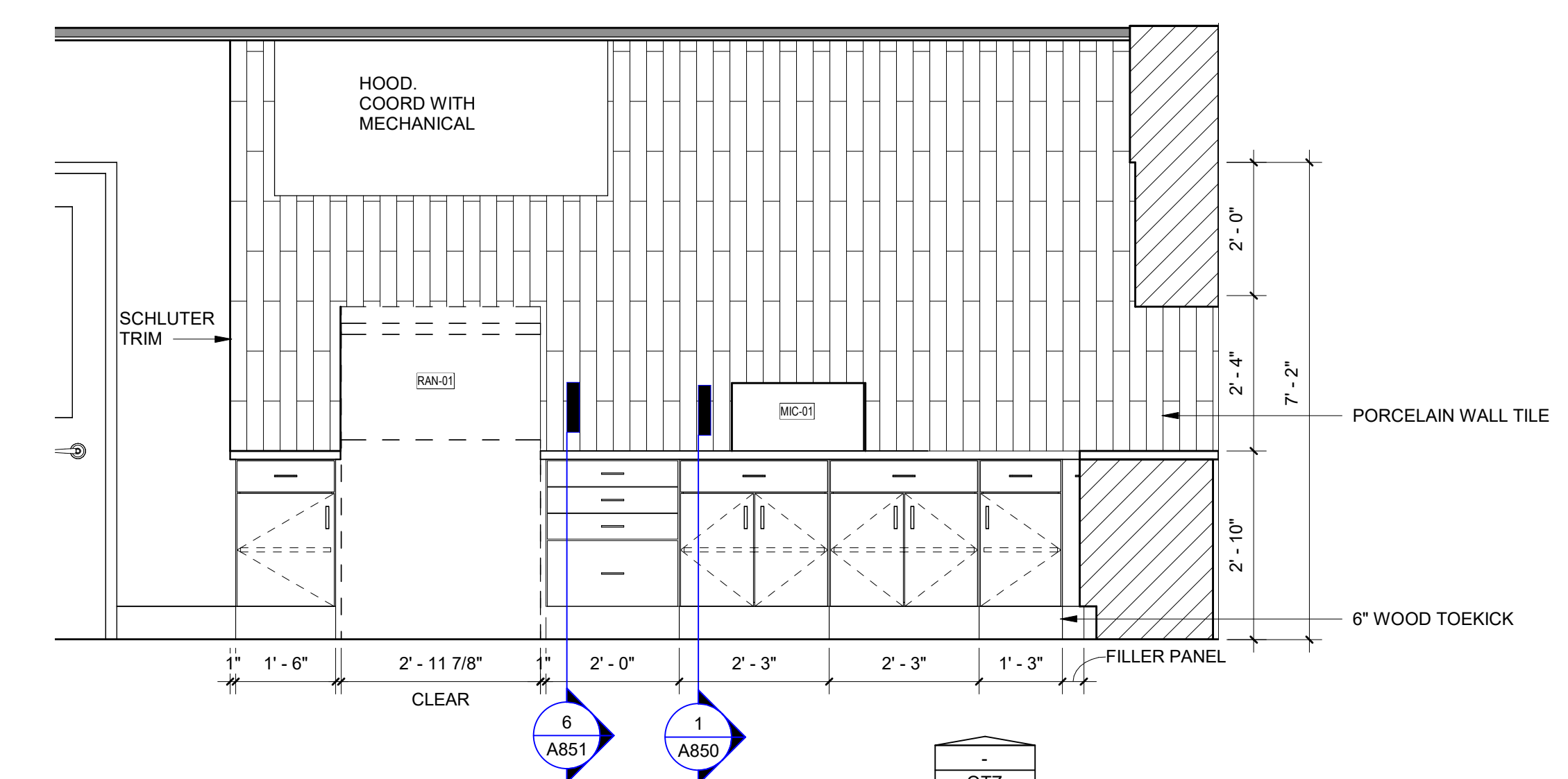
1 KITCHEN 110 - ENLARGED PLAN



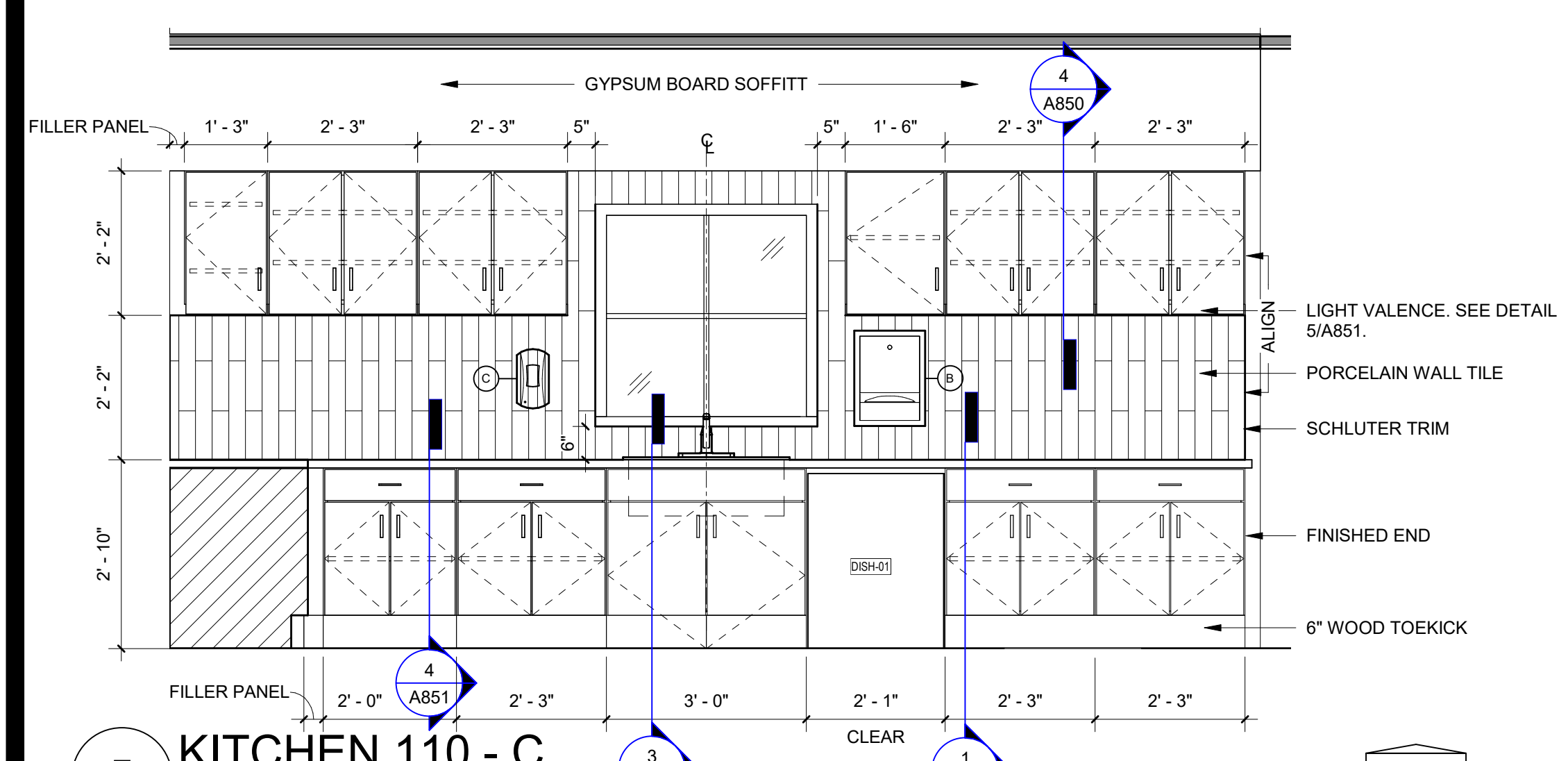
2 KITCHEN 110 - A



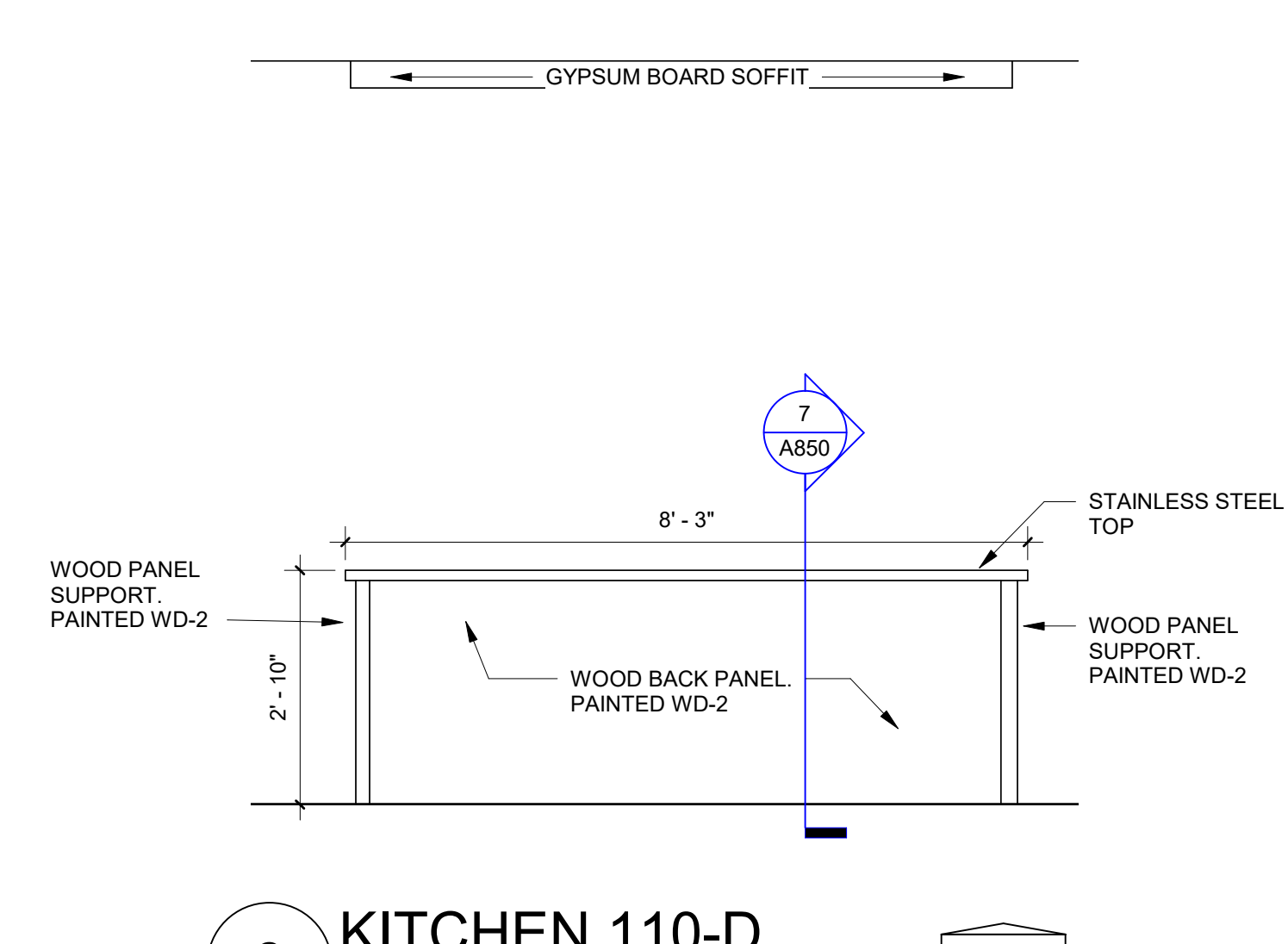
3 112 PANTRY



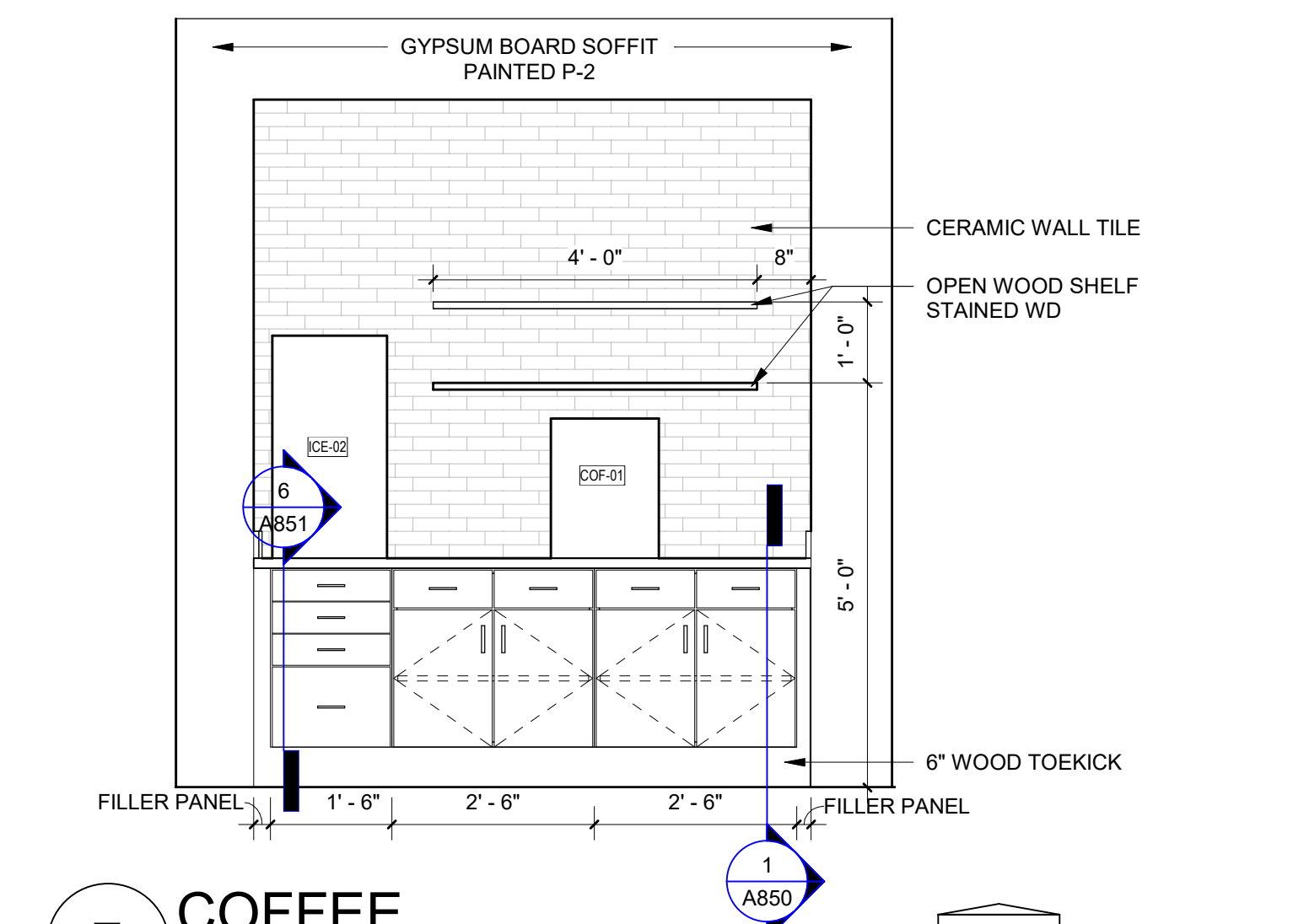
4 KITCHEN 110 - B



5 KITCHEN 110 - C



6 KITCHEN 110 - D



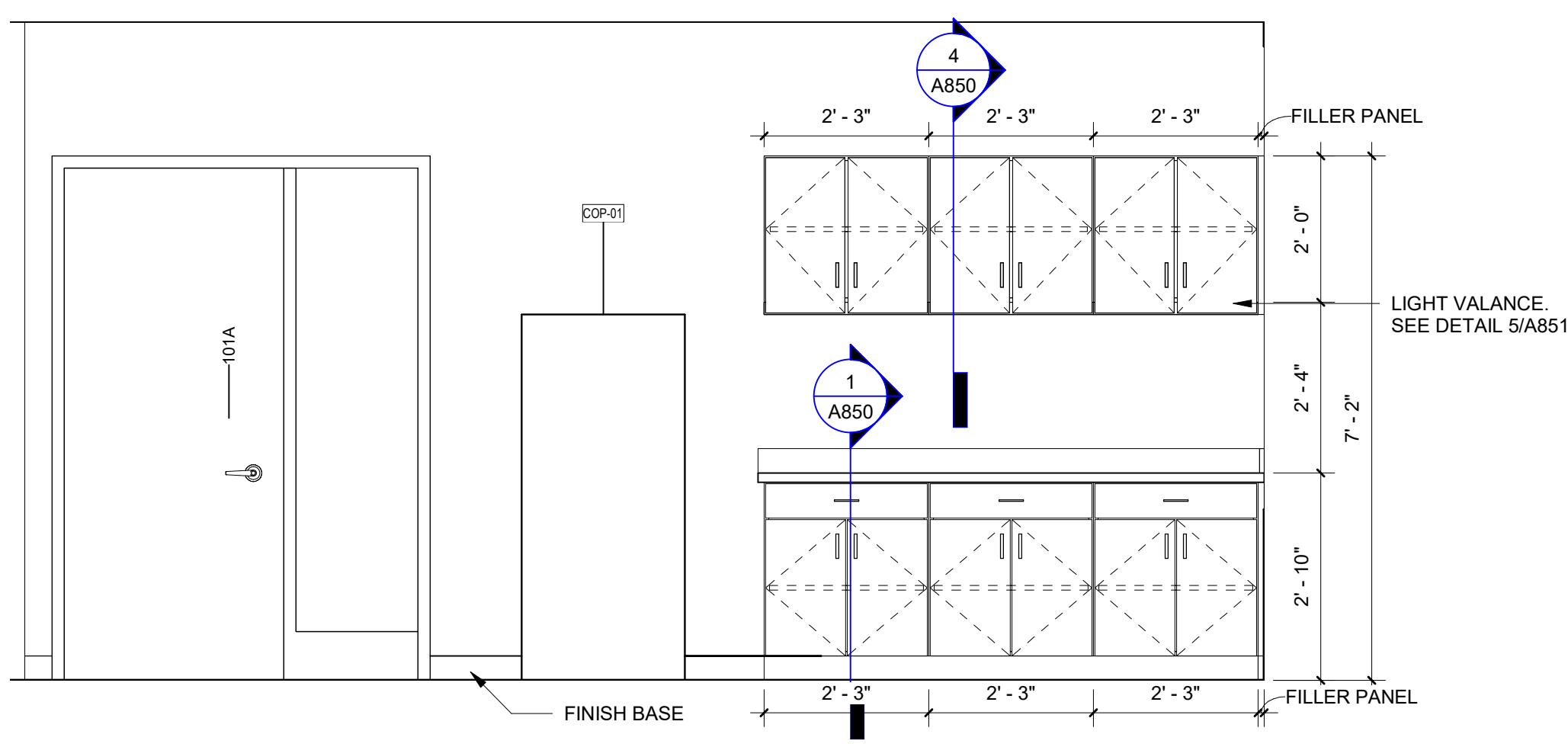
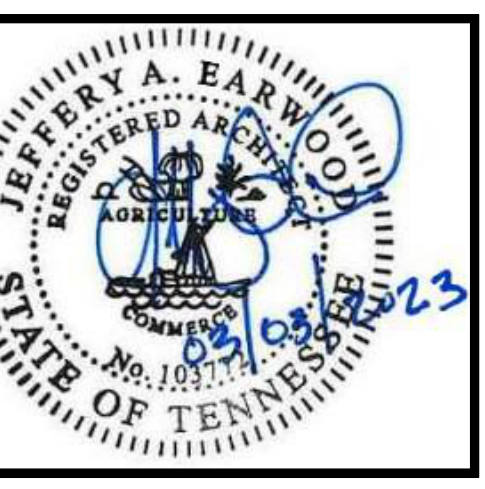
7 COFFEE

REVISIONS

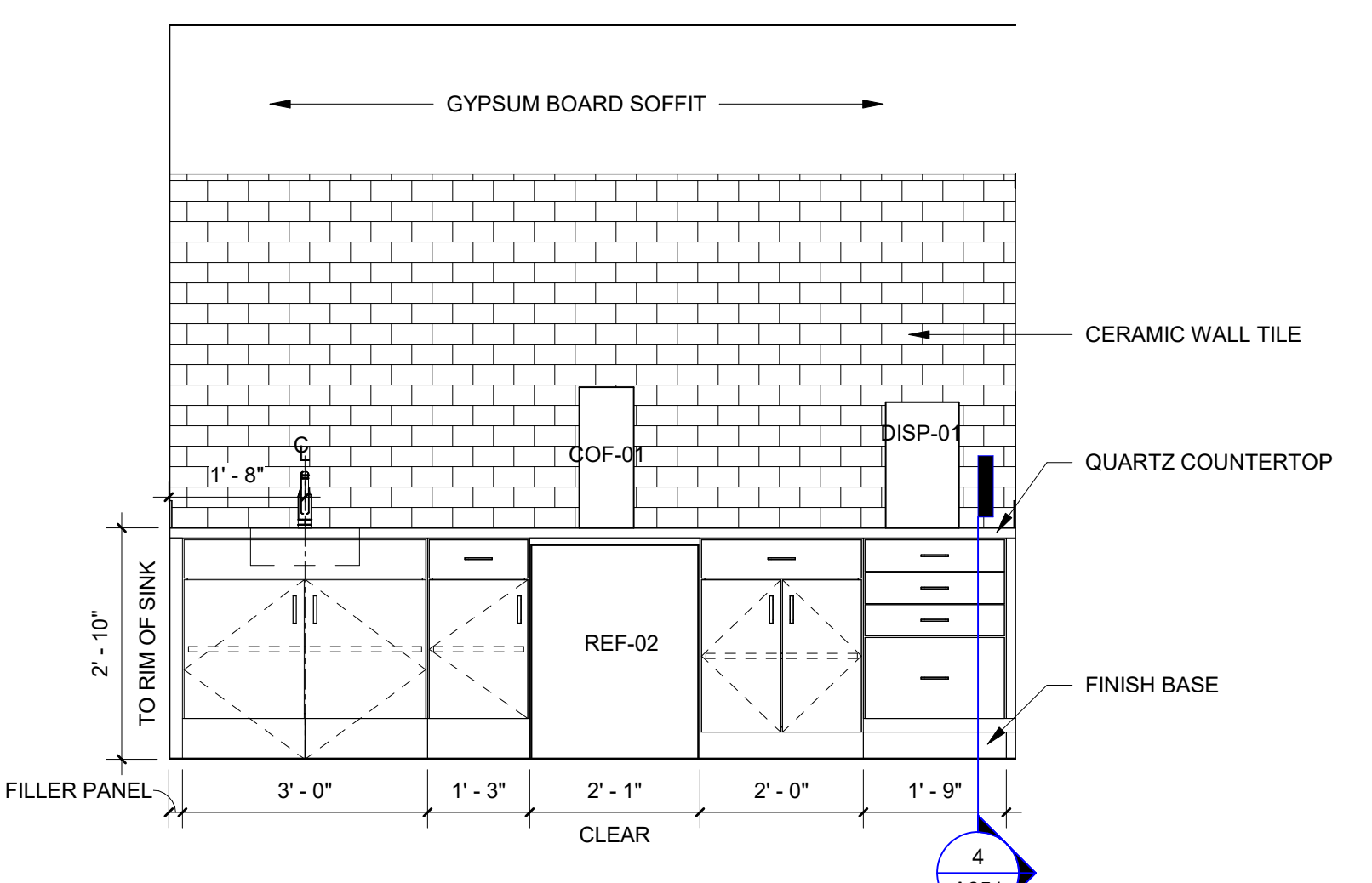
NO.	DESCRIPTION

DR. BY	SH, KK
CK. BY	JE, LS
PROJ. NO.	A01122
DATE	03/03/23

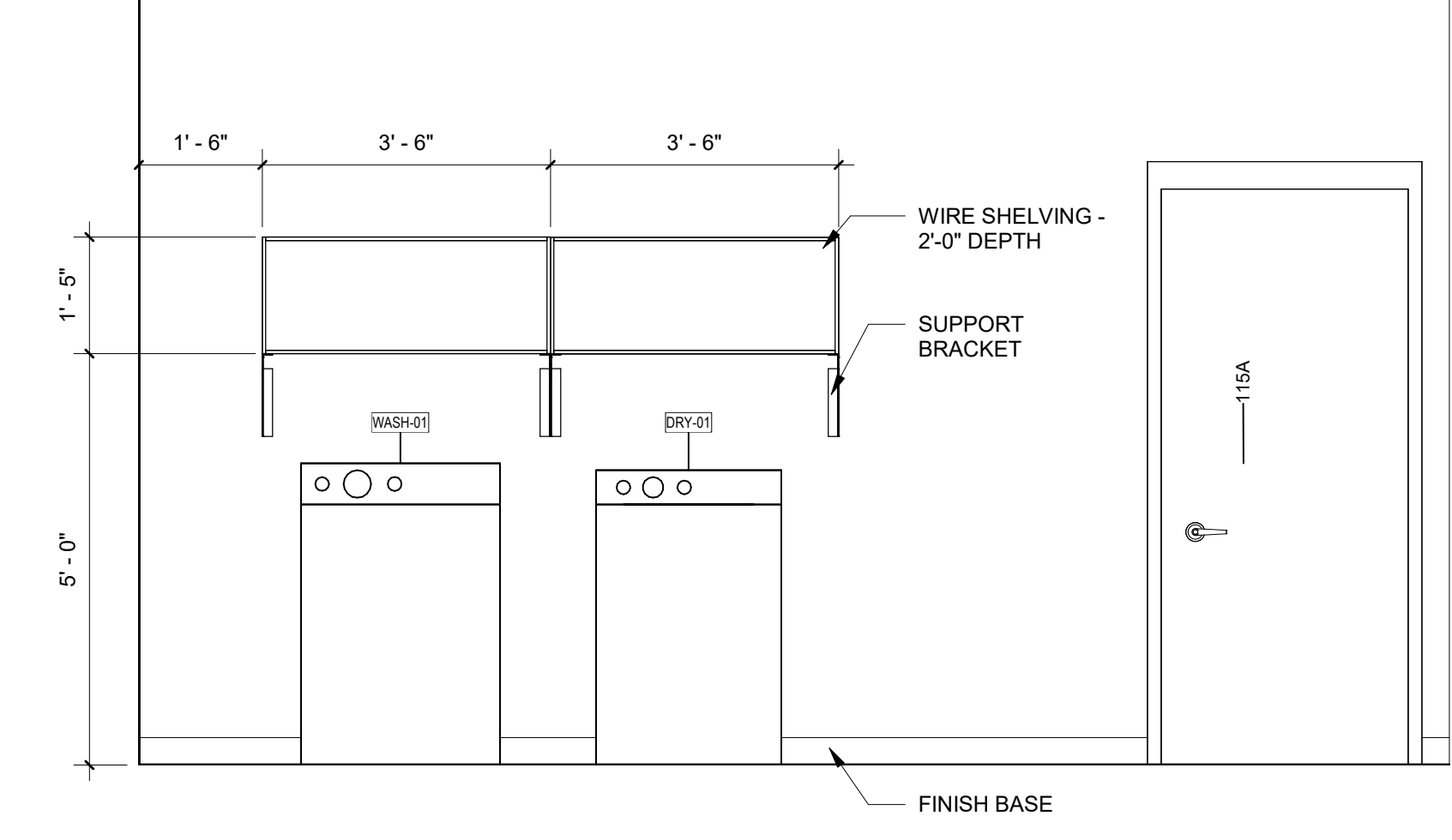
**ENLARGED PLANS
AND ELEVATIONS**



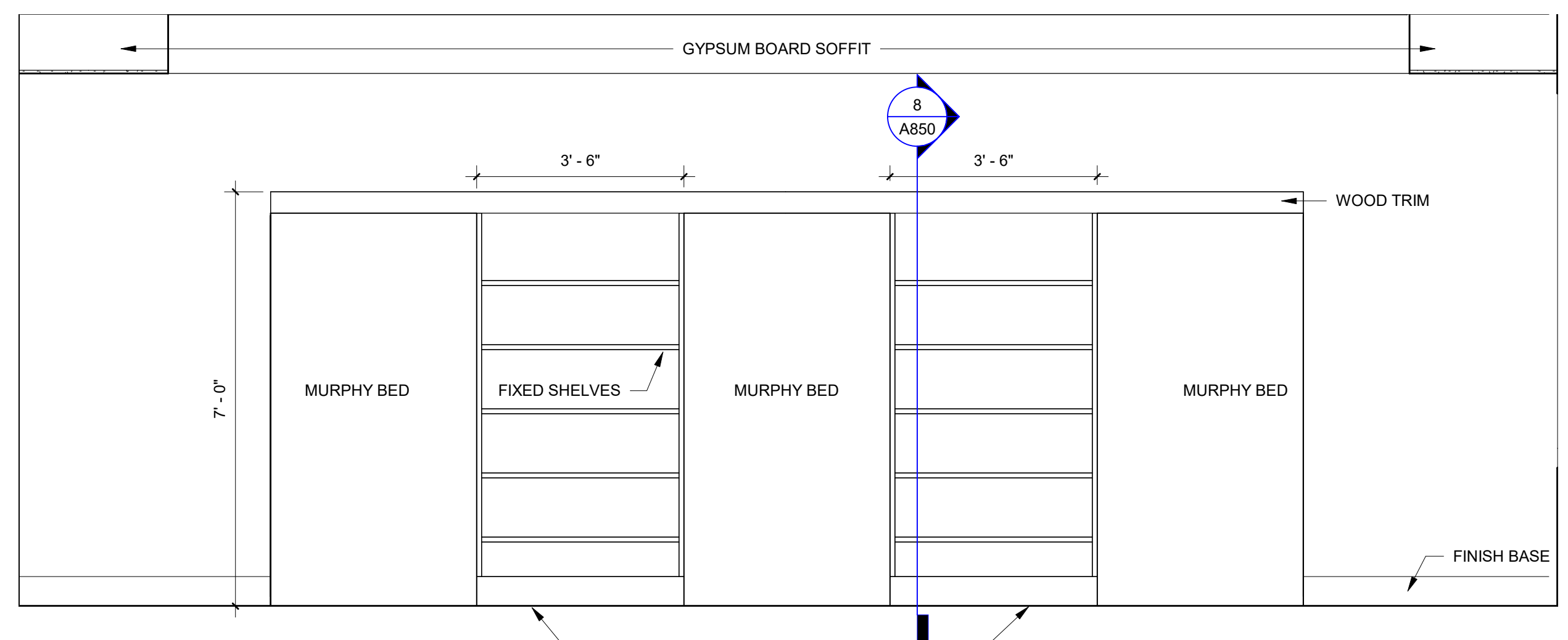
1 101 WORK/STUDY
SS-1
PL-1



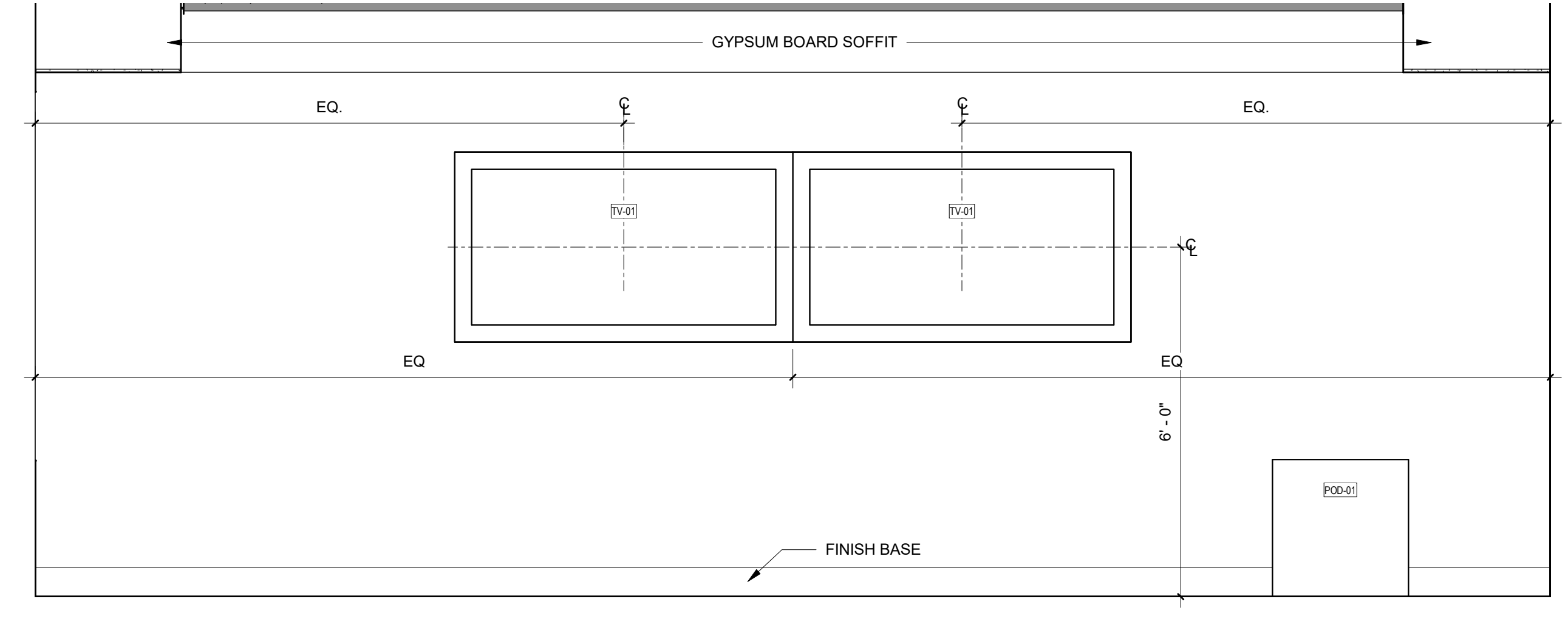
2 105 COFFEE
QTZ-1
PL-1



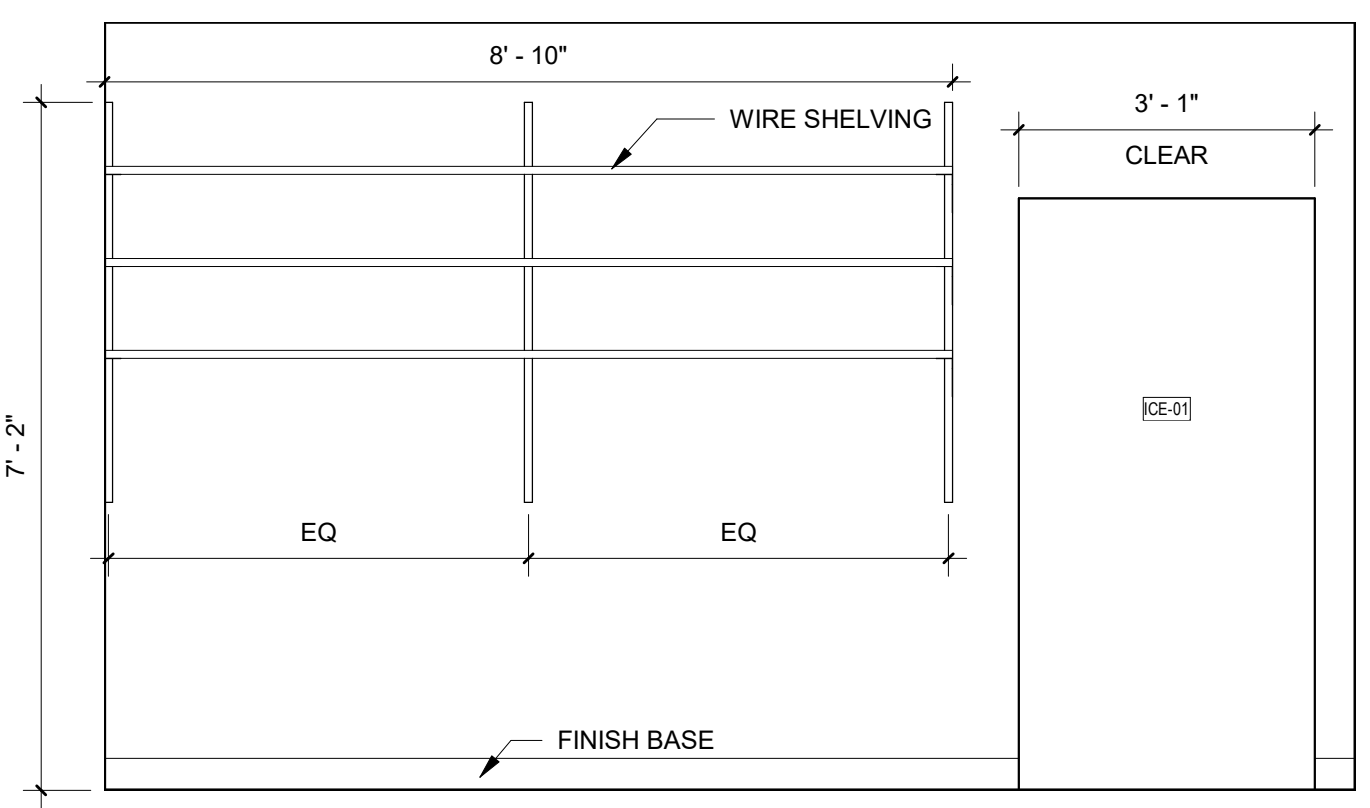
3 115 EXTRACTOR & LAUNDRY



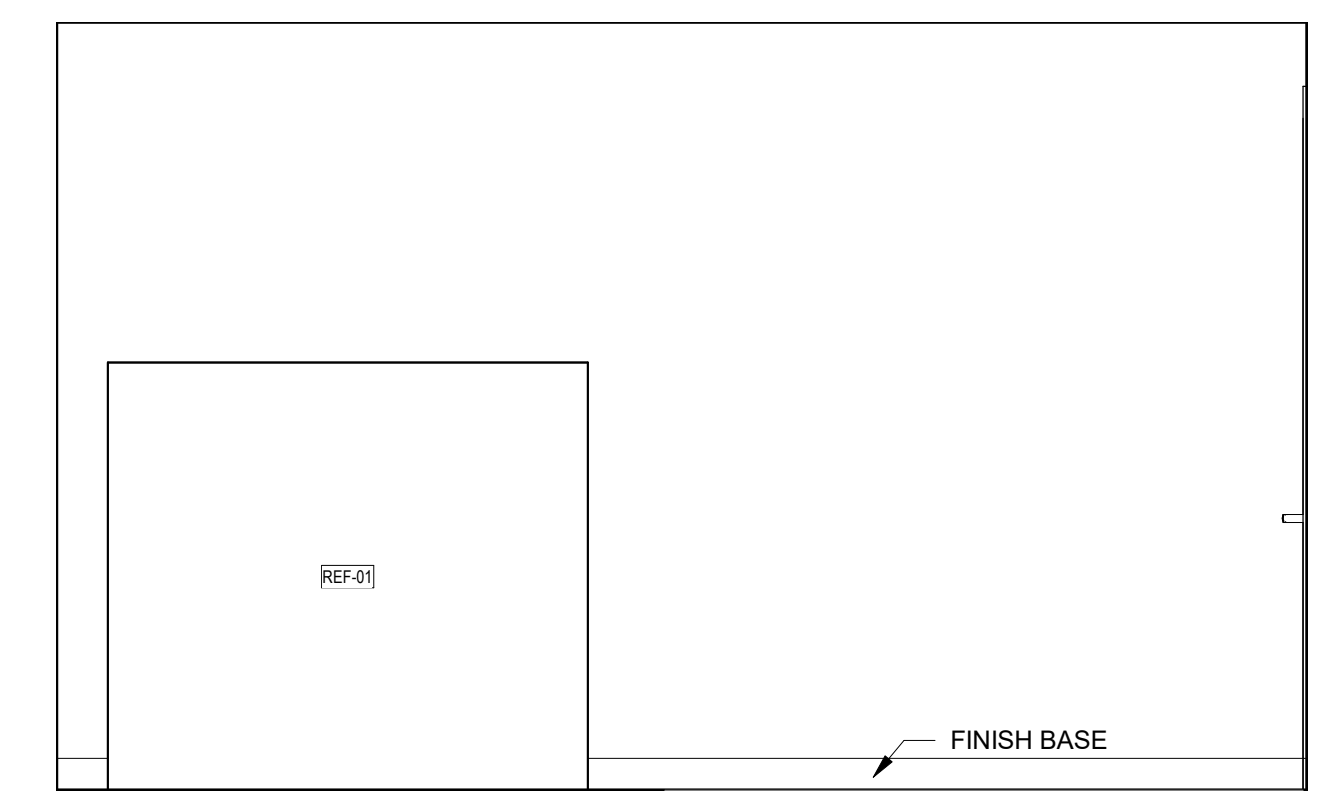
4 104 TRAINING
WD-1



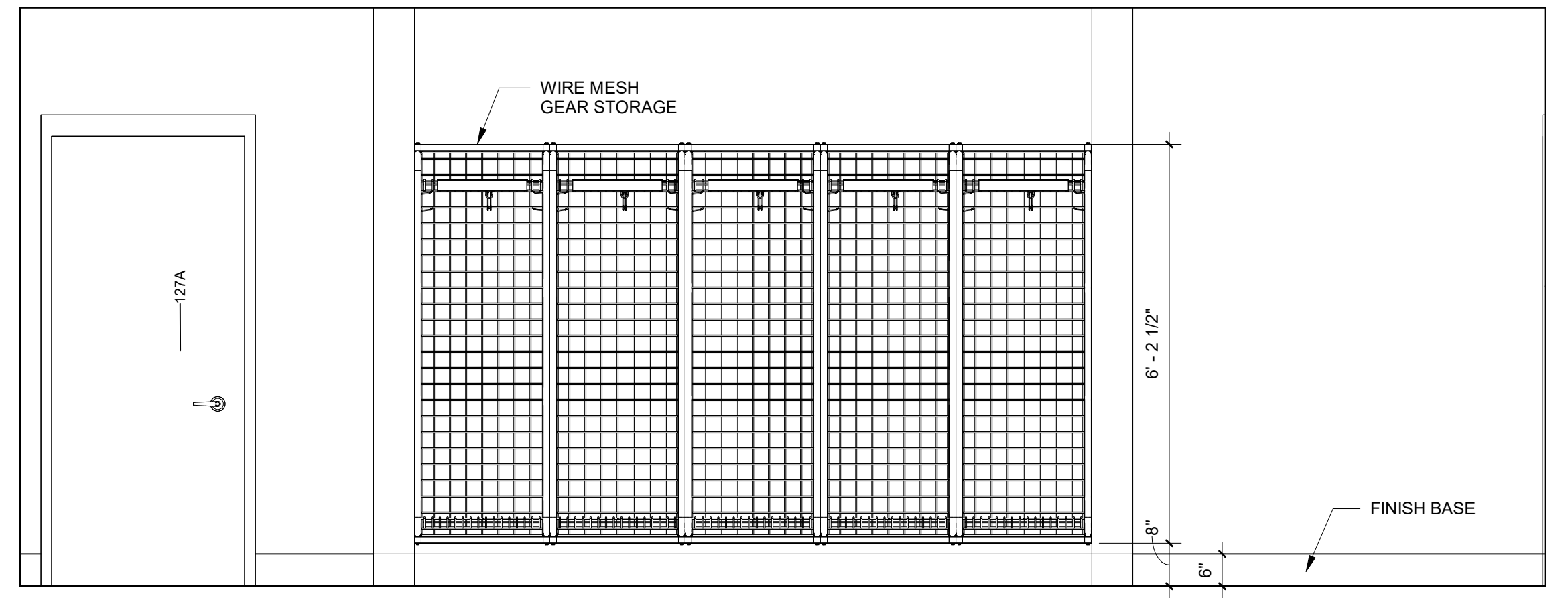
5 104 TRAINING B



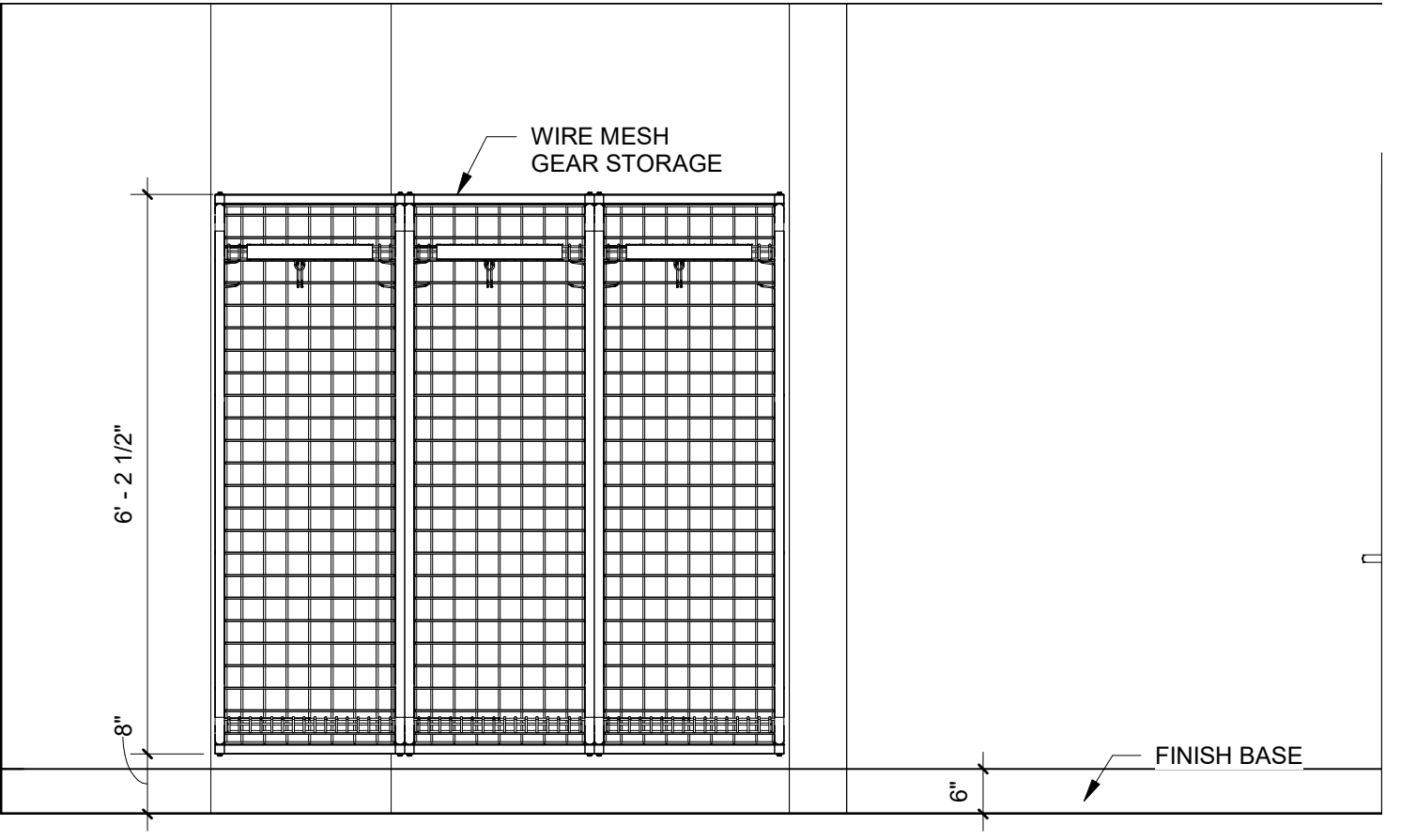
6 107 STORAGE



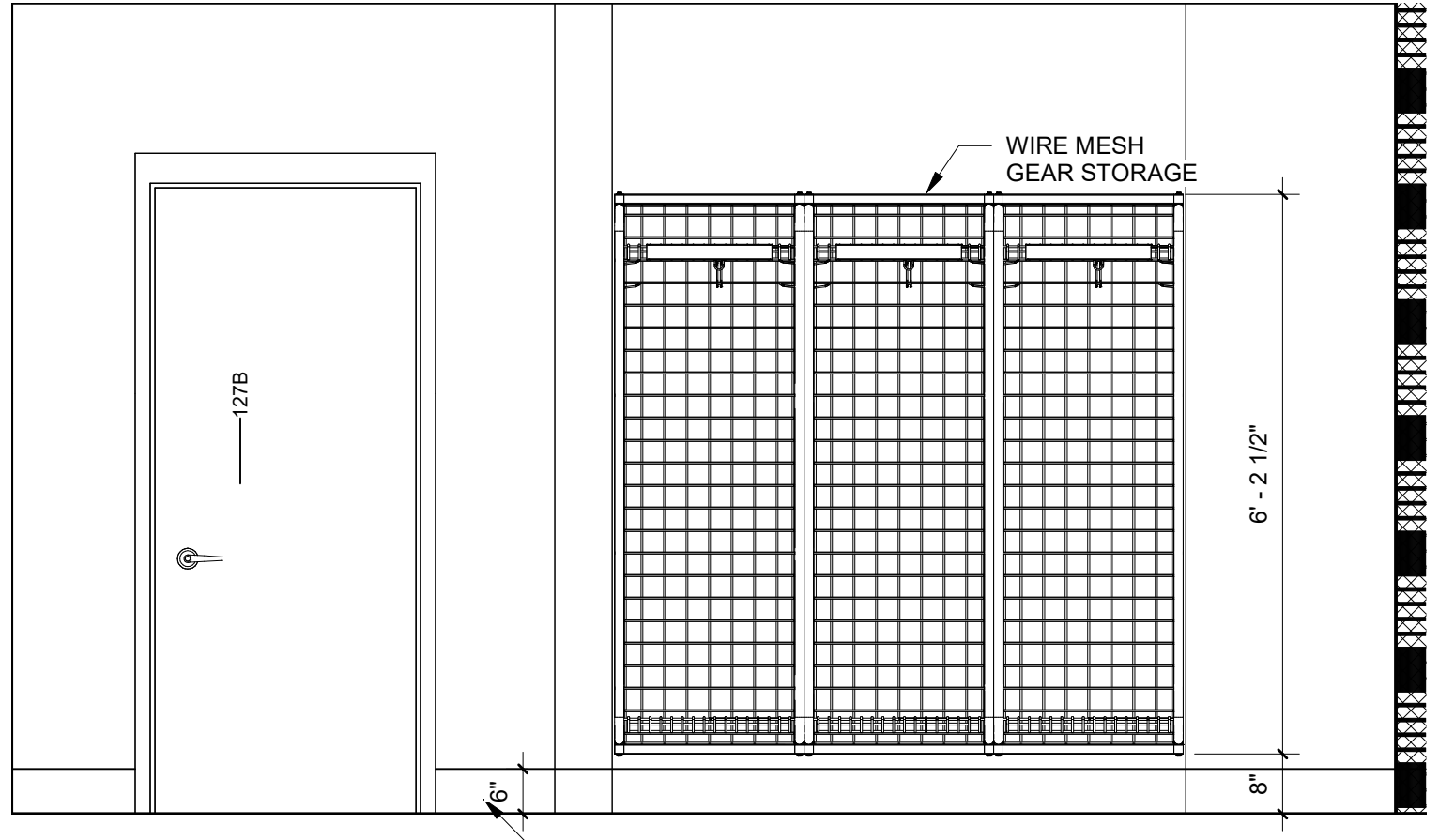
7 107 STORAGE



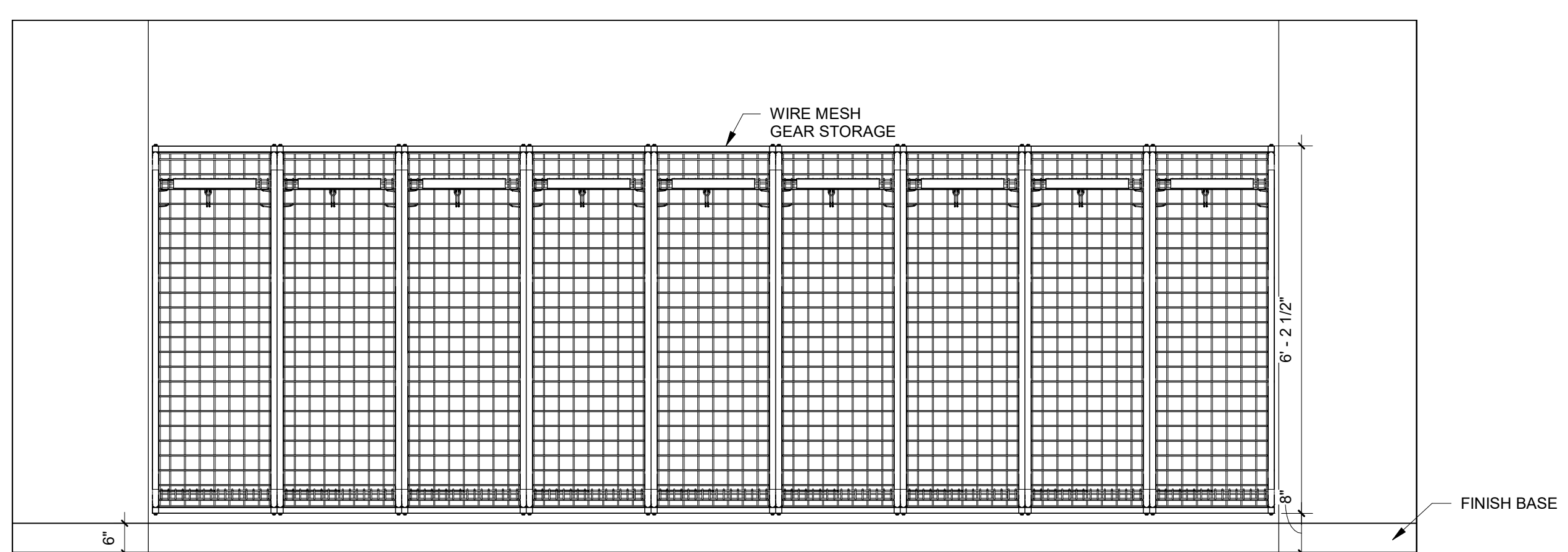
8 127 TURNOUT GEAR



9 127 TURNOUT GEAR



10 127 TURNOUT GEAR

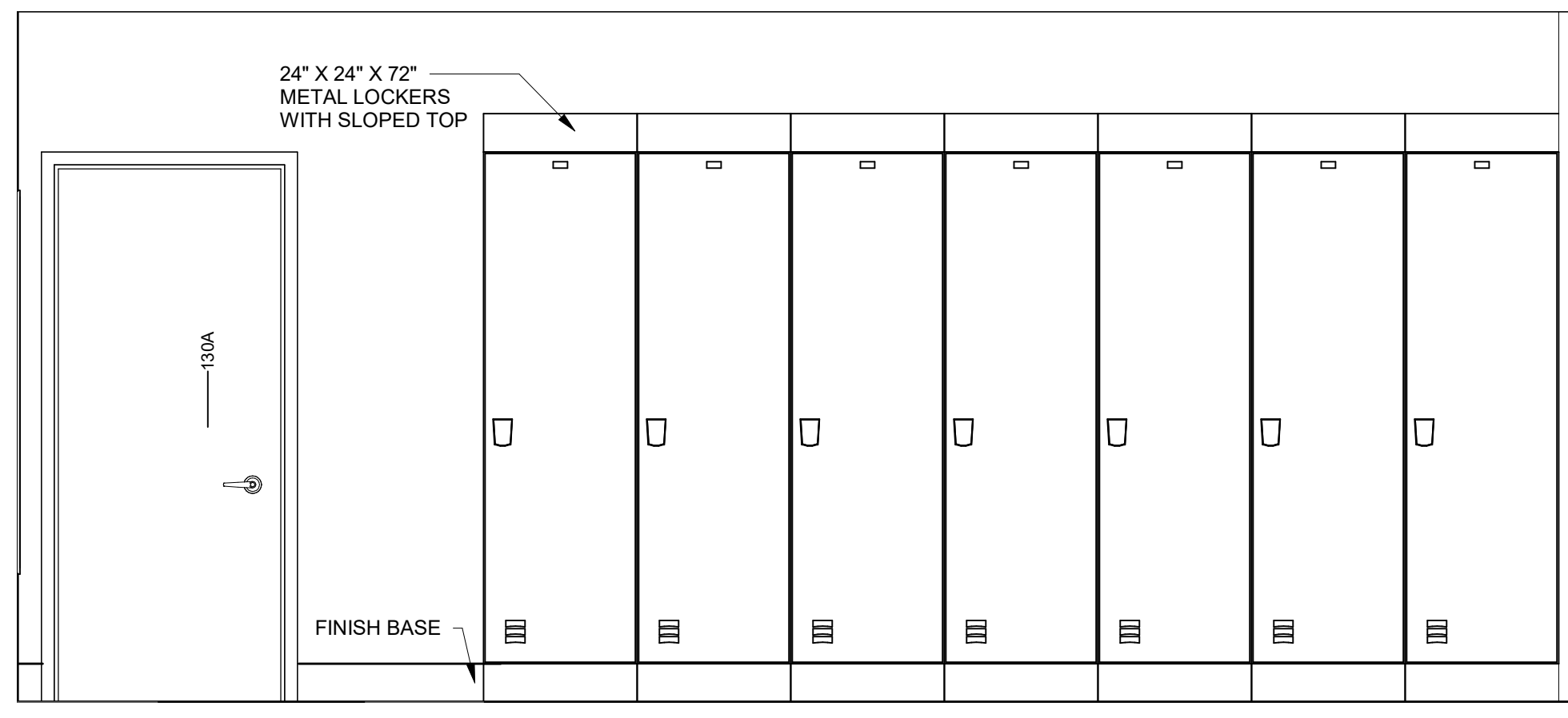


11 127 TURNOUT GEAR

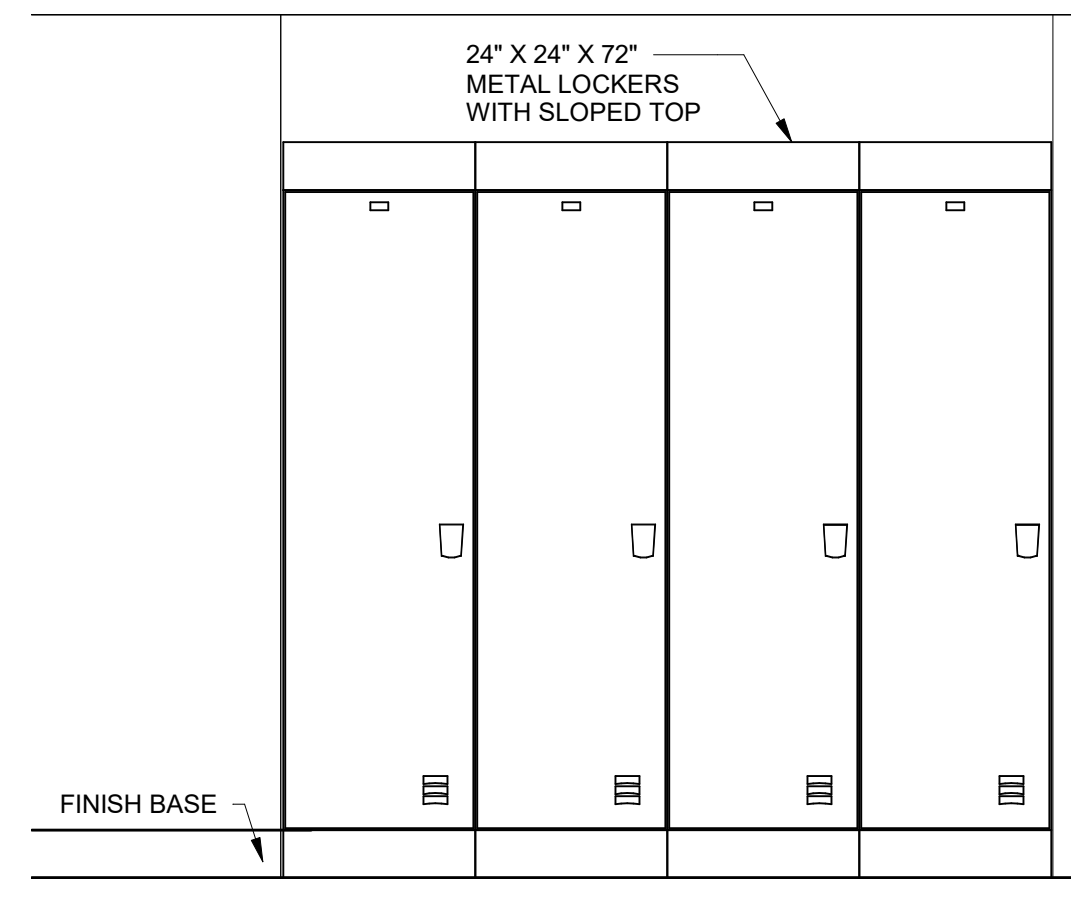
TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE

REVISIONS	

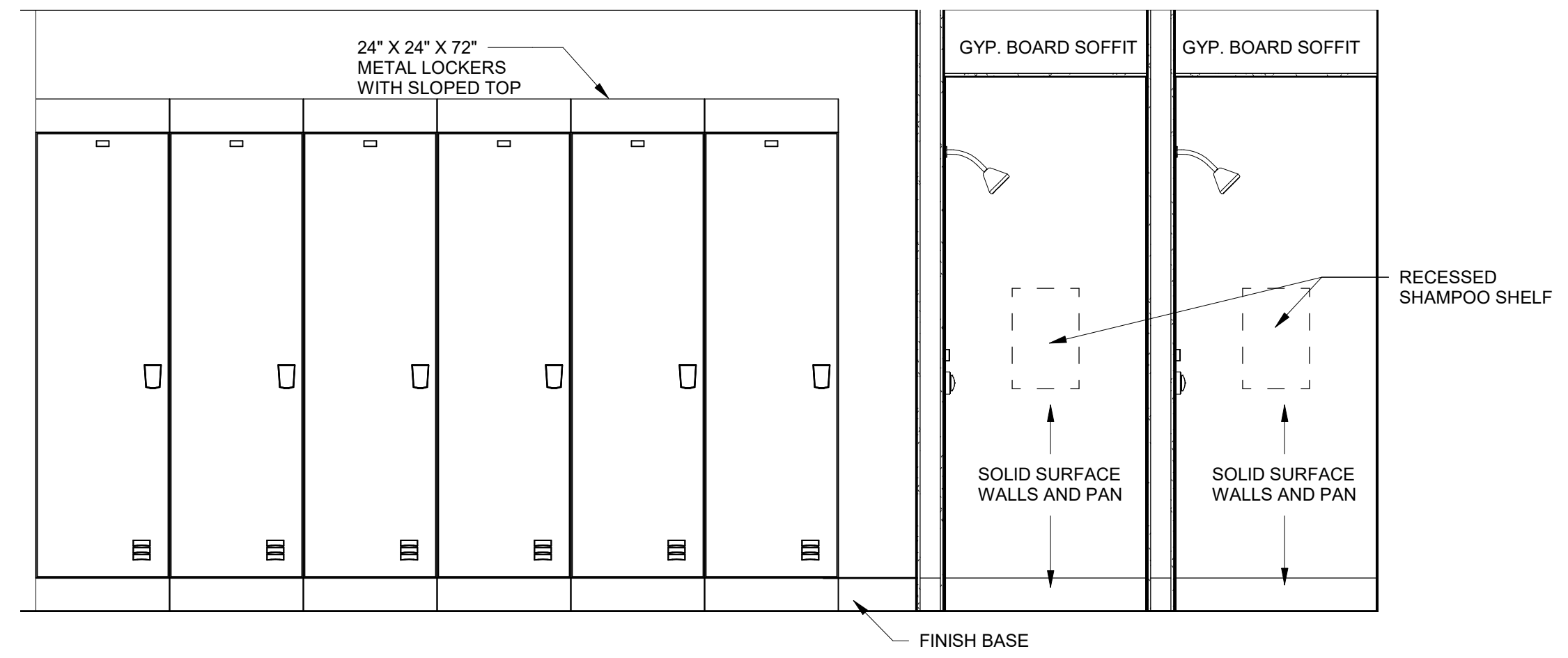
DR. BY SH, KK
CK. BY JE, LS
PROJ. NO. A01122
DATE 03/03/23
INTERIOR ELEVATIONS



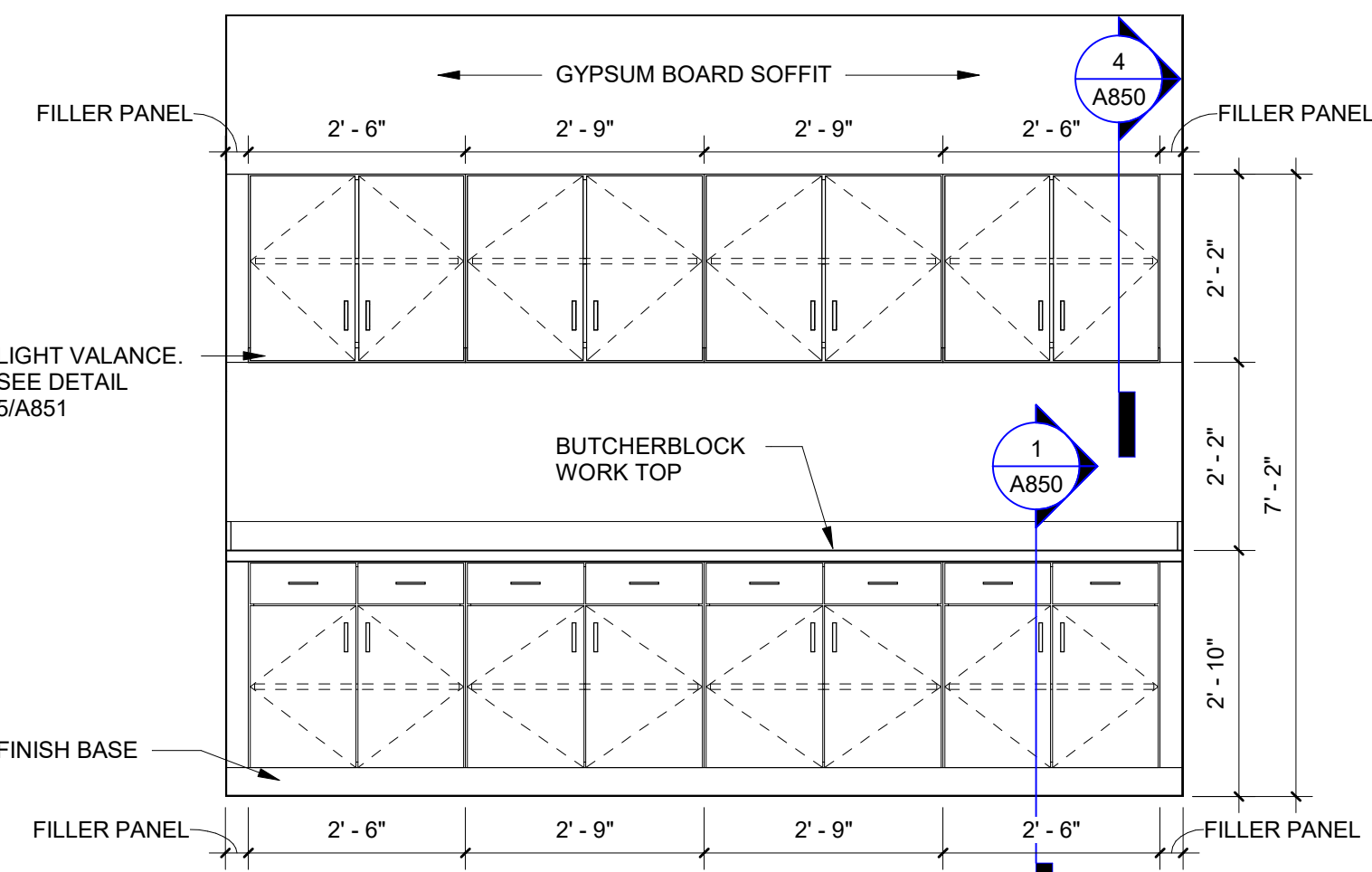
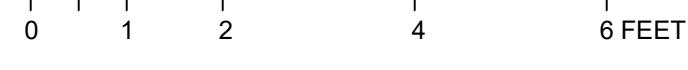
1 130 M. LOCKER



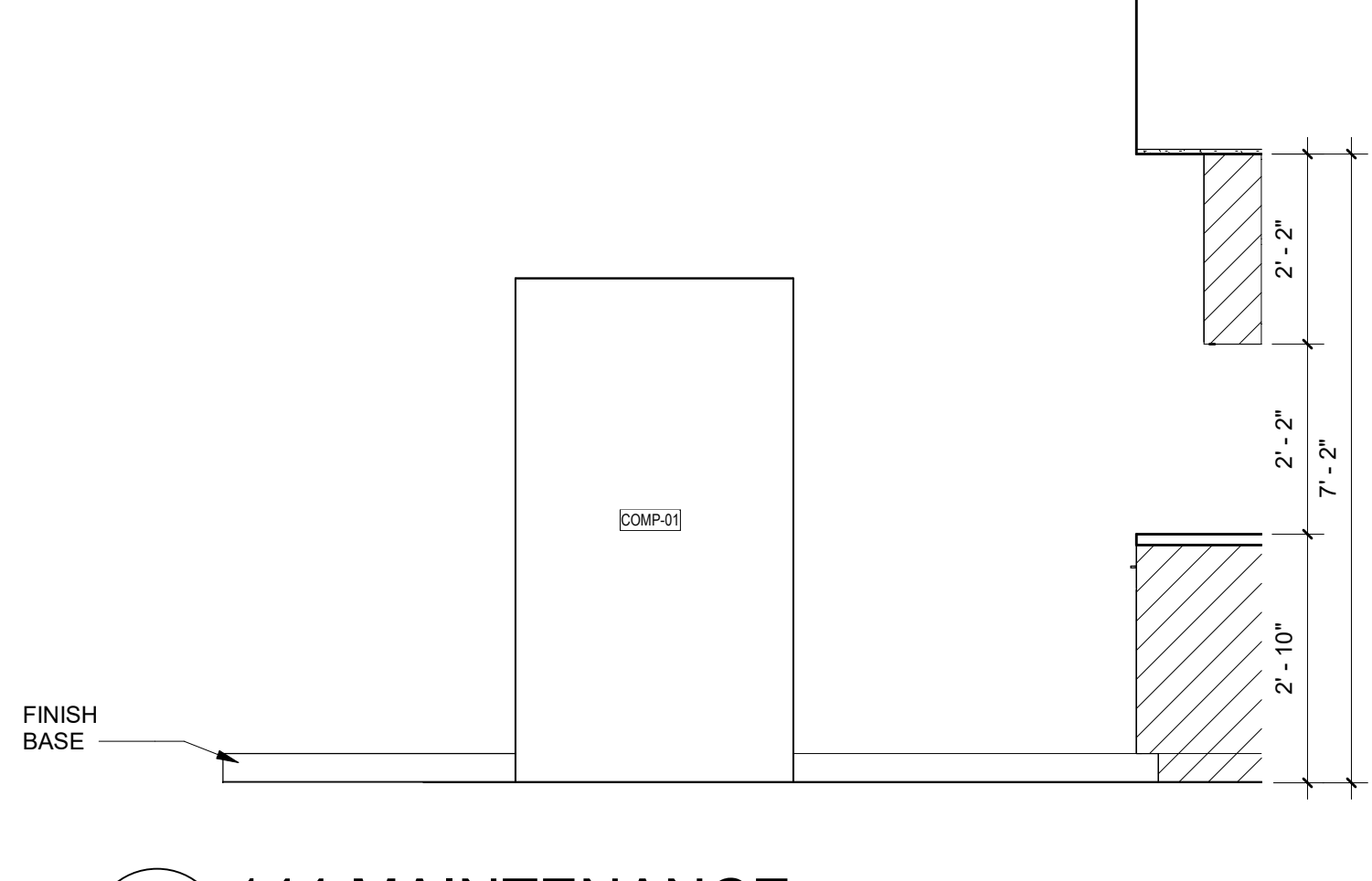
2 130 M. LOCKER



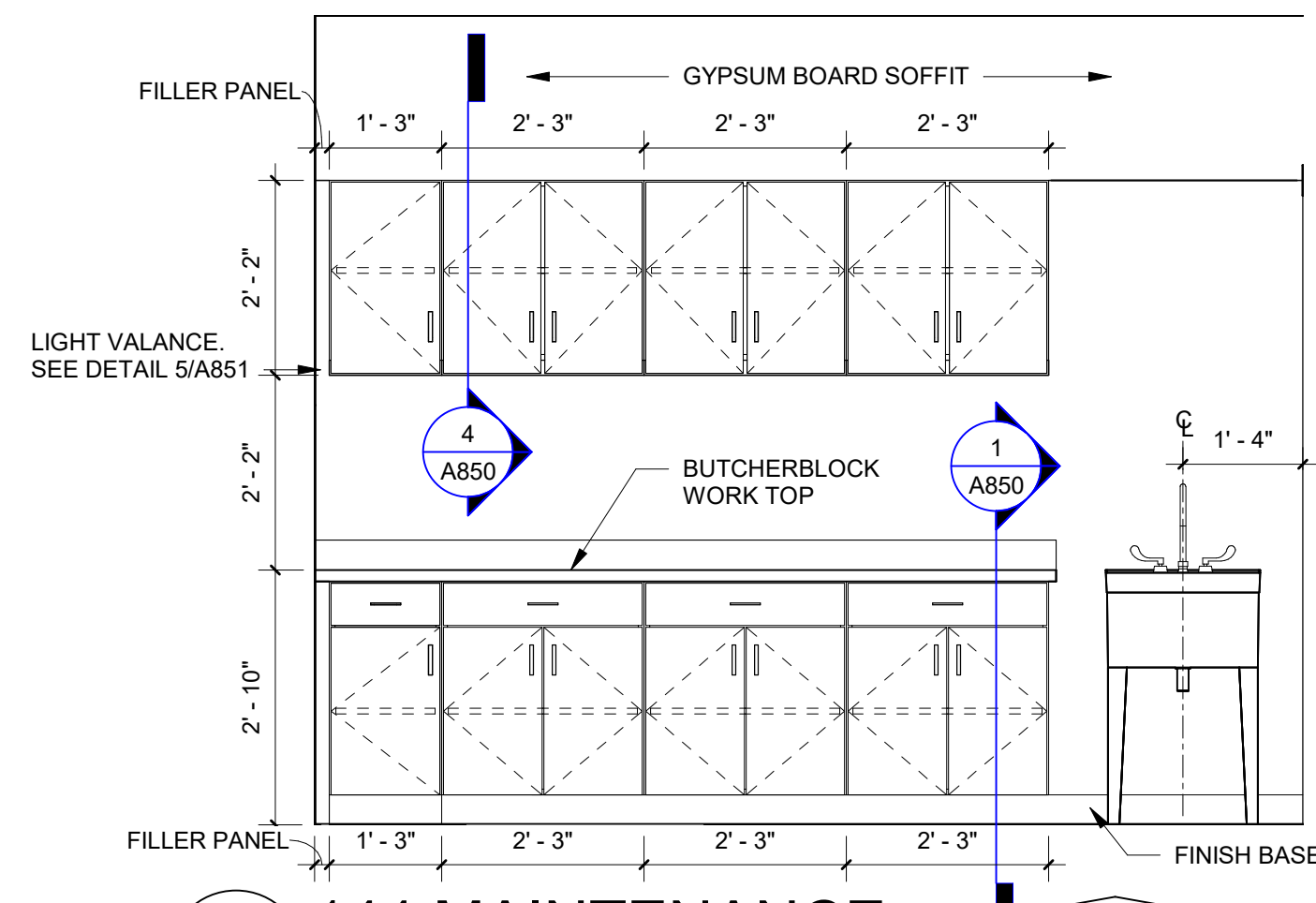
3 130 M. LOCKER



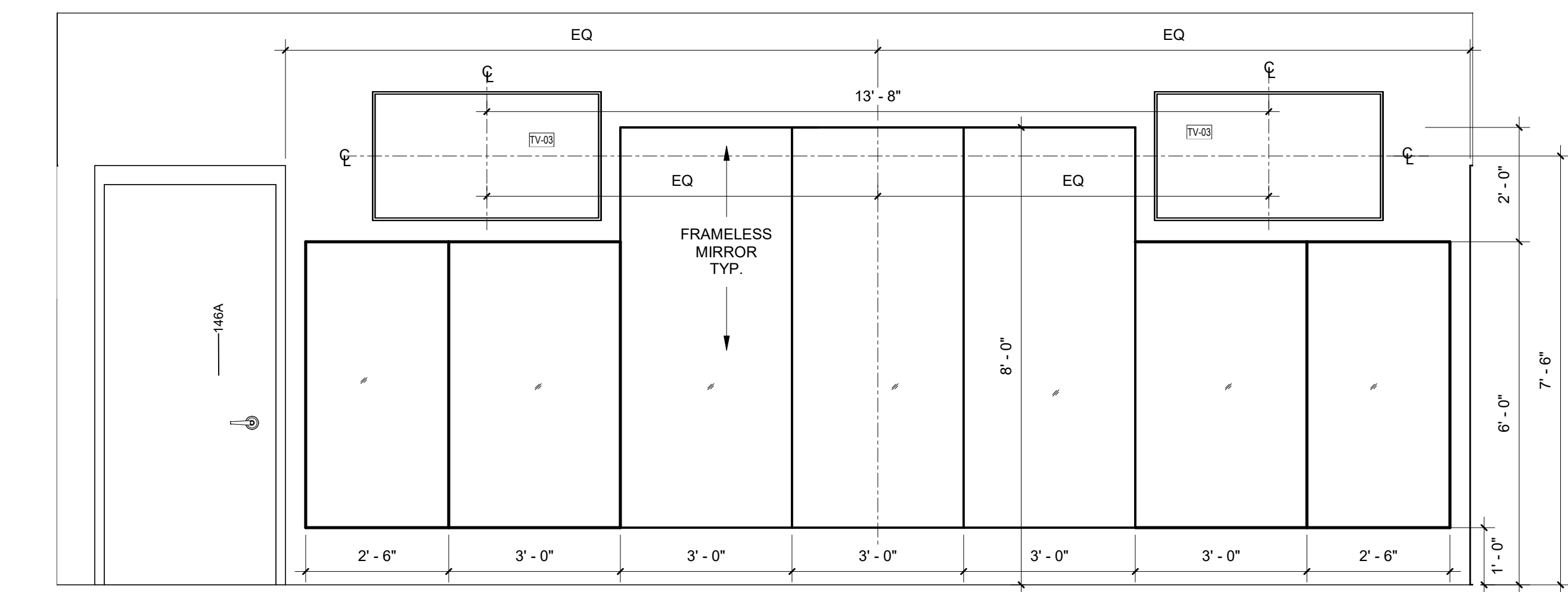
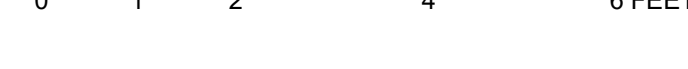
4 143 SCBA



5 144 MAINTENANCE

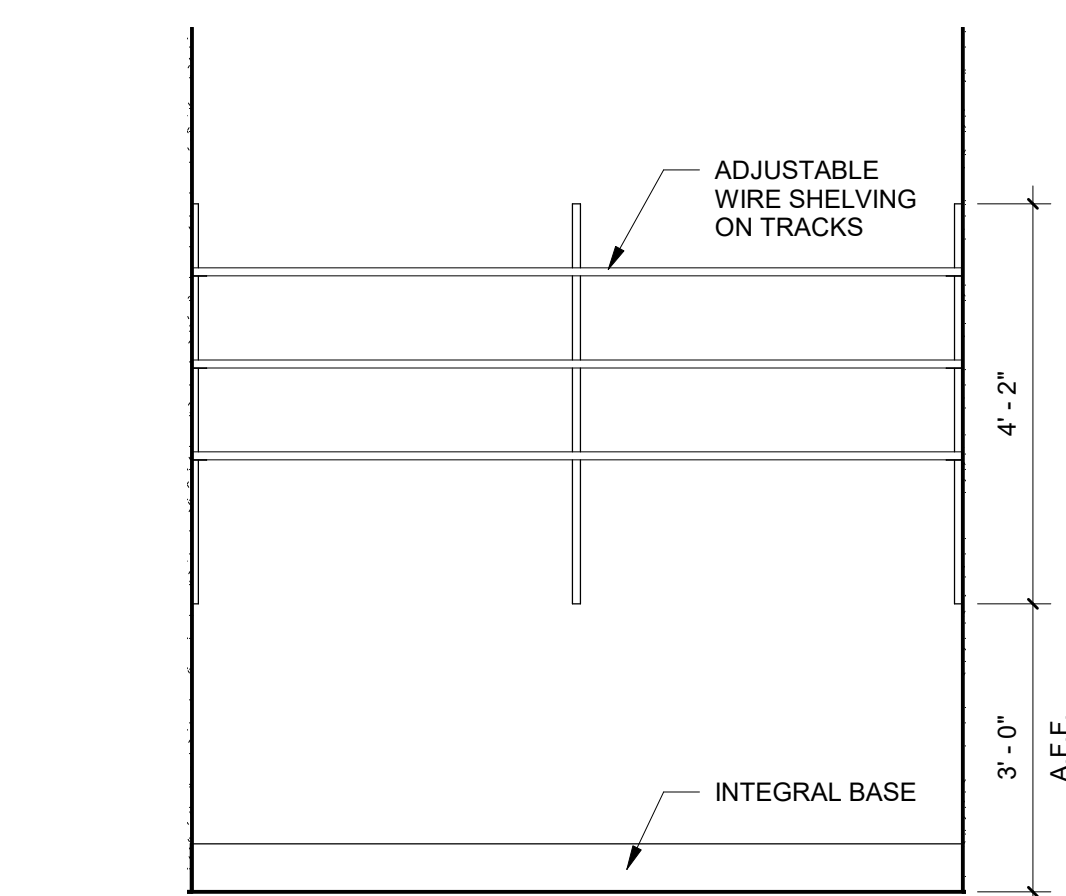


6 144 MAINTENANCE

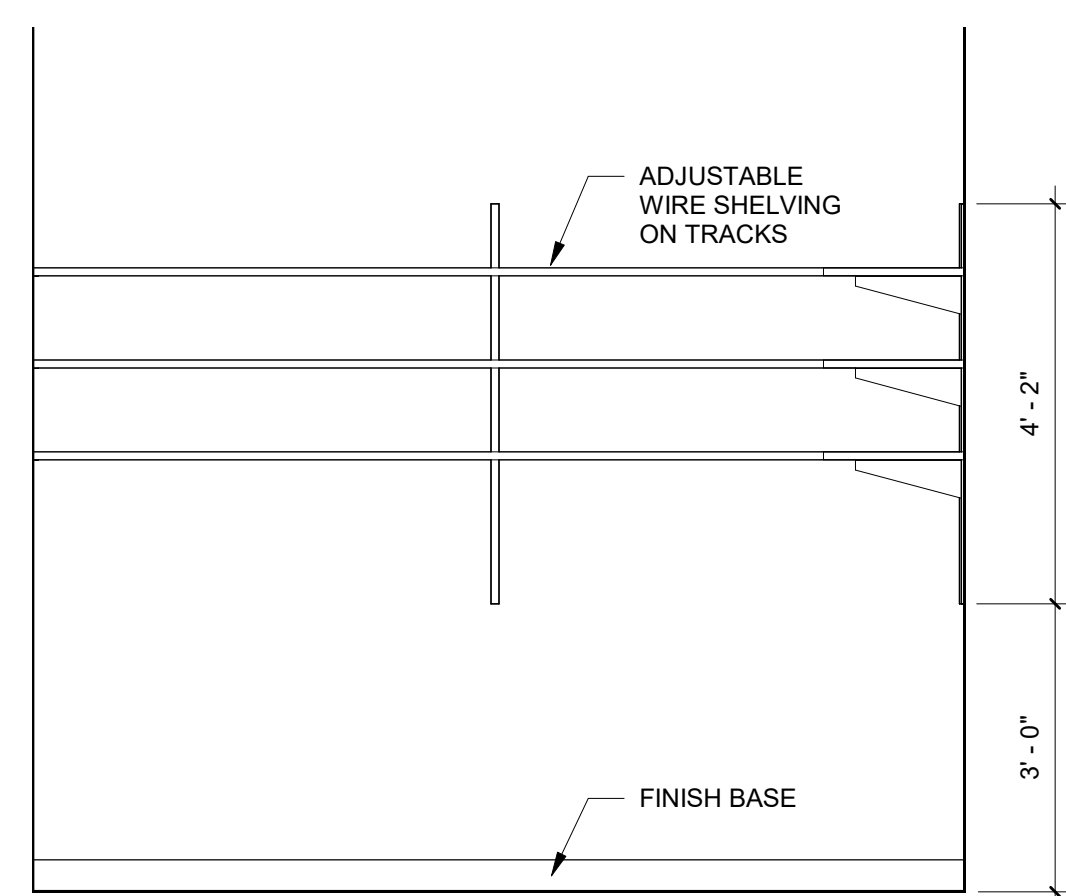


8 146 PHYSICAL AGILITY

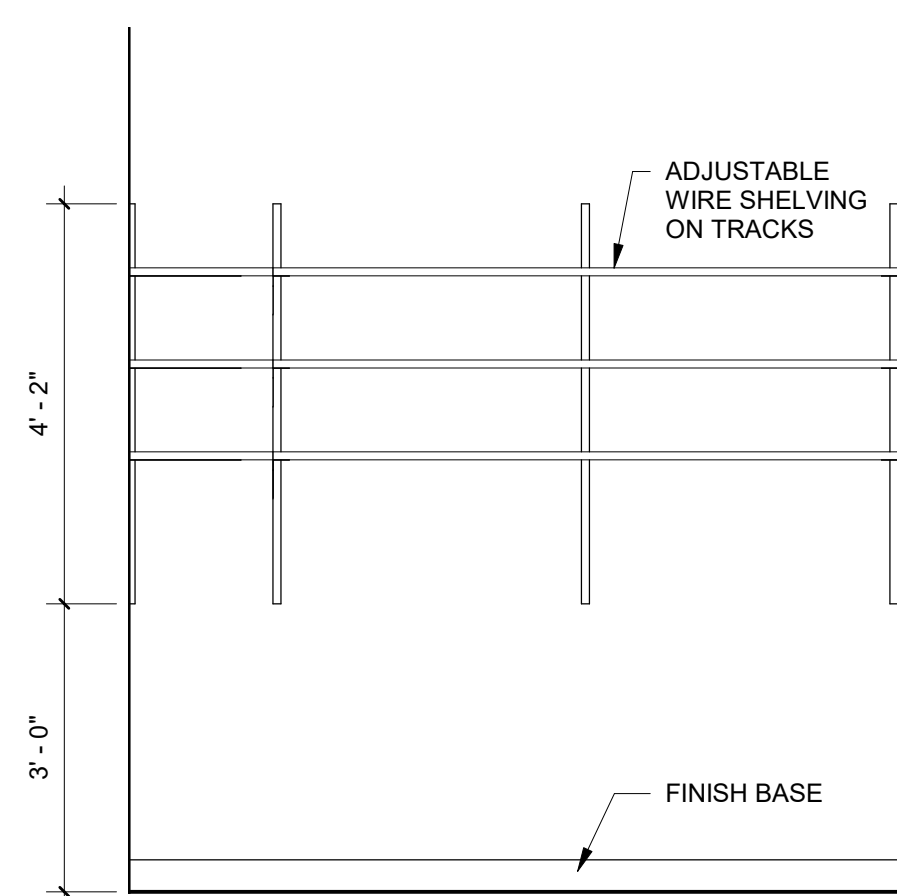
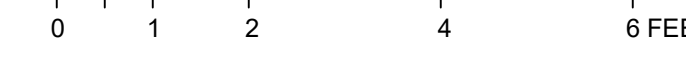
NOTE: BASE AND FLOORING PROVIDED BY OWNER



10 135 JAN



11 137 STORAGE - A

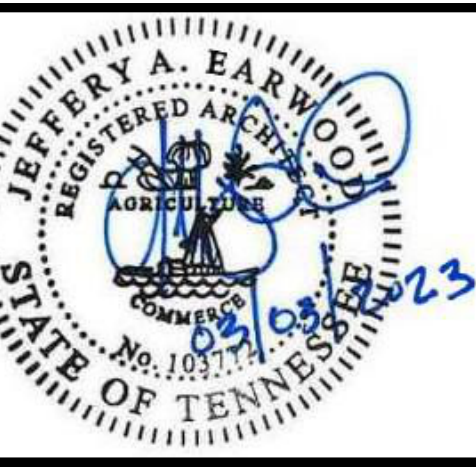


12 137 STORAGE - B



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TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE

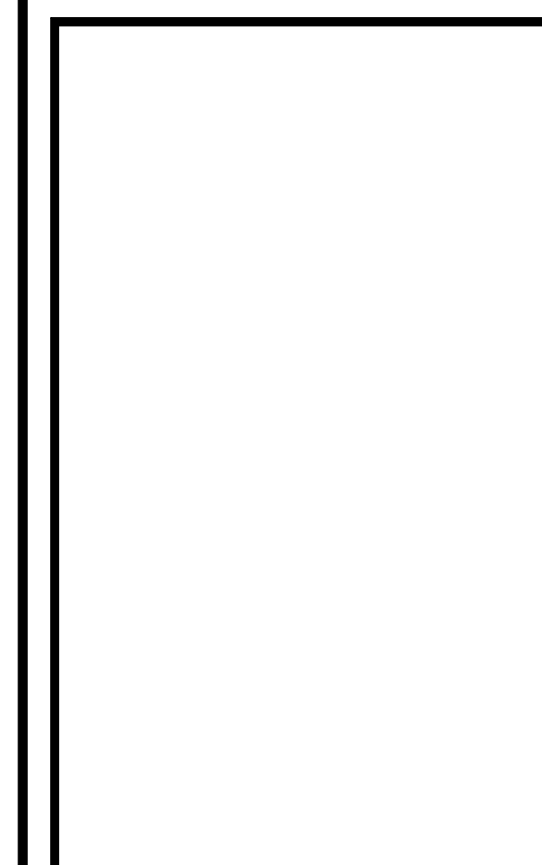
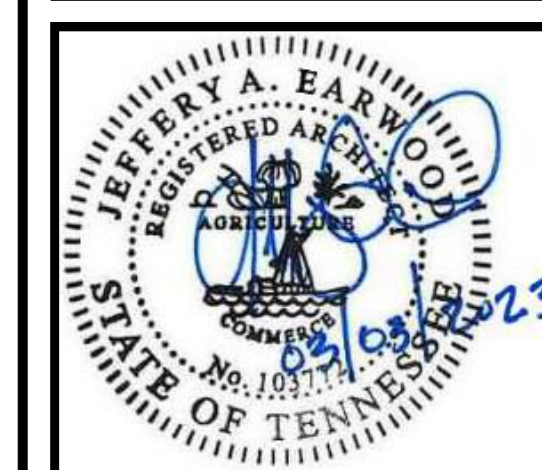
REVISIONS

NO.	DESCRIPTION

DR. BY SH, KK
CK. BY JE, LS
PROJ. NO. A01122
DATE 03/03/23

INTERIOR ELEVATIONS

A651



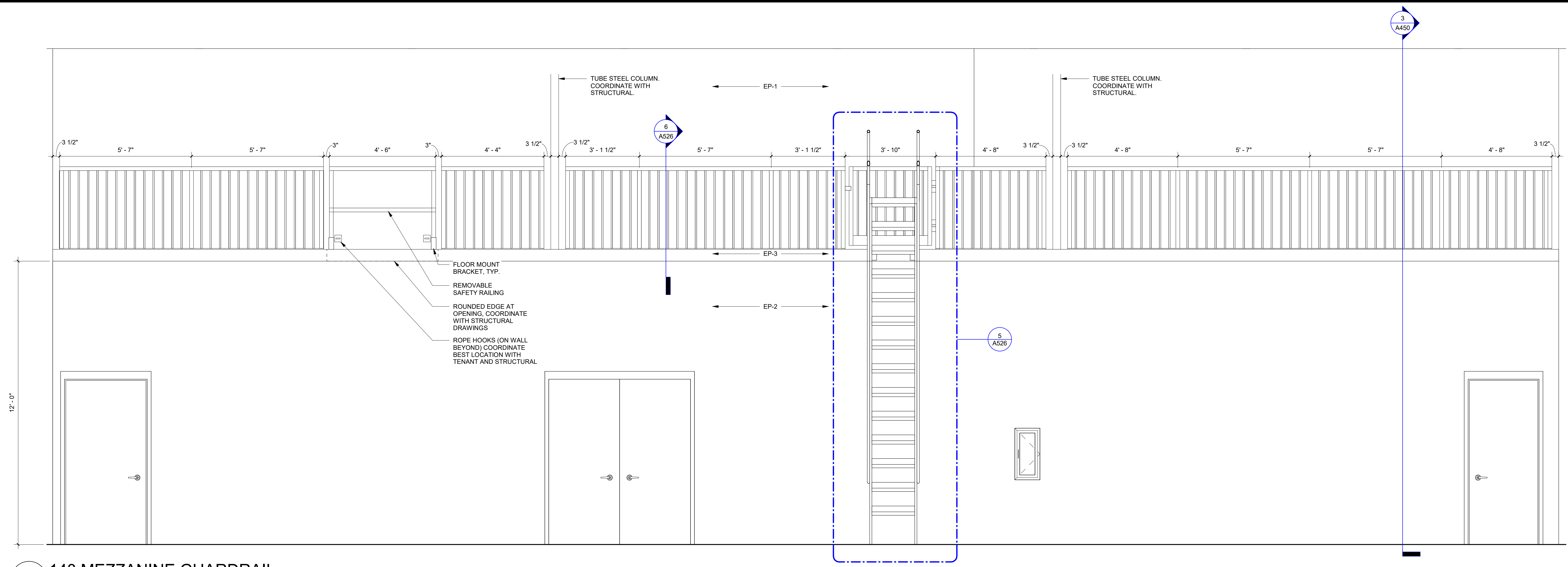
TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



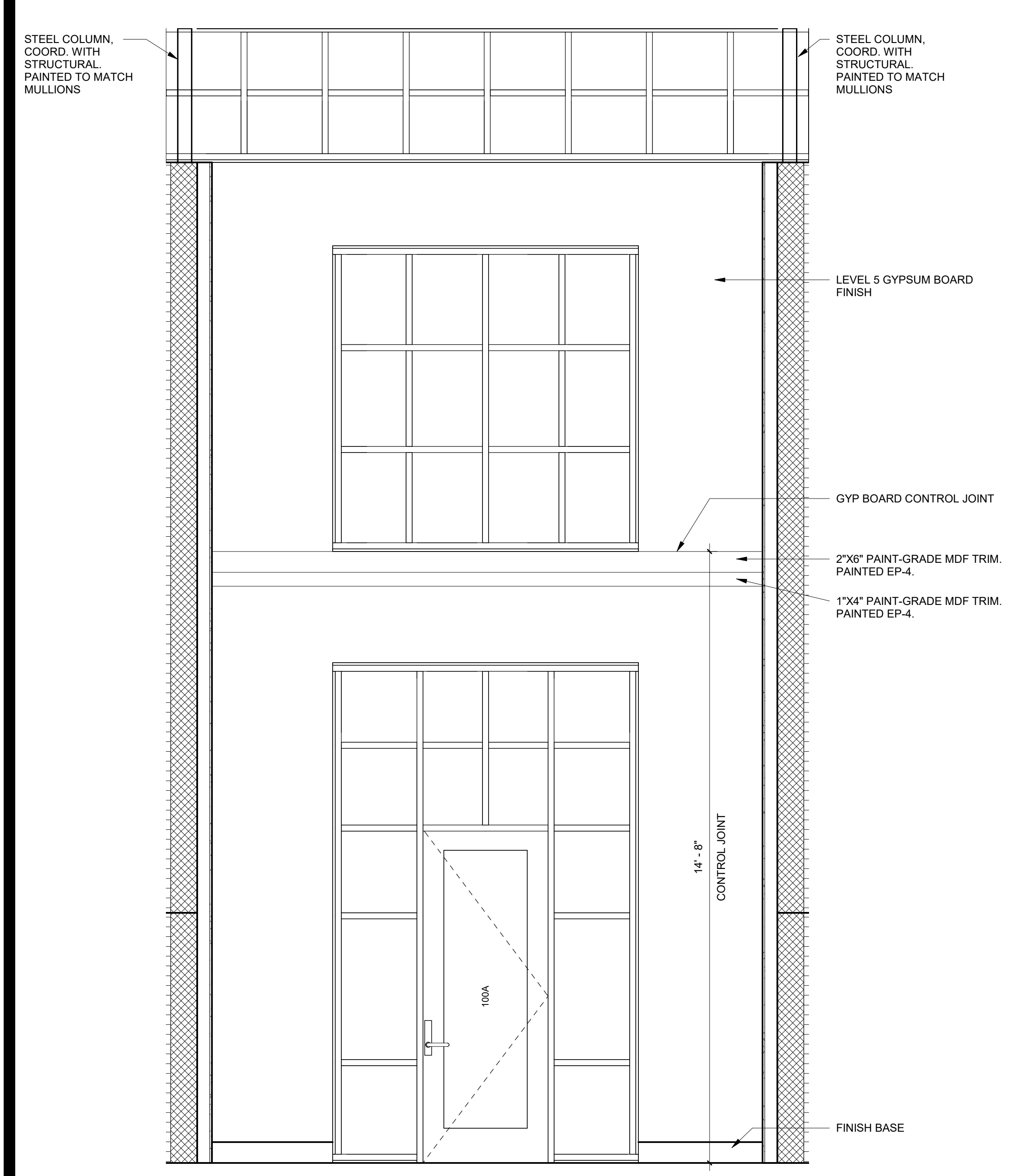
REVISIONS

NO.	DESCRIPTION	DATE

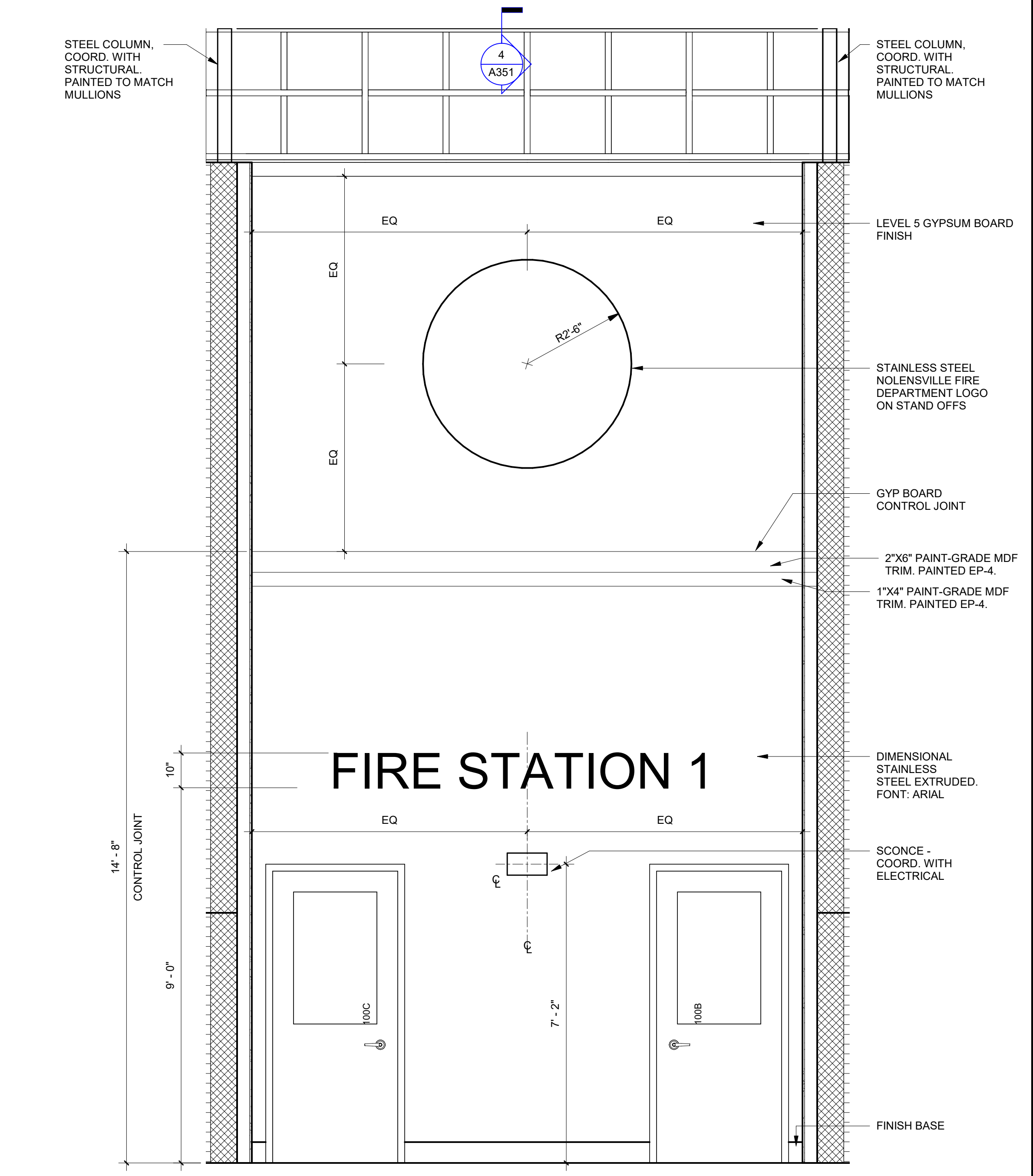
DR. BY RG, KK
CK. BY LS, DC
PROJ. NO. A01122
DATE 03/03/23
INTERIOR ELEVATIONS



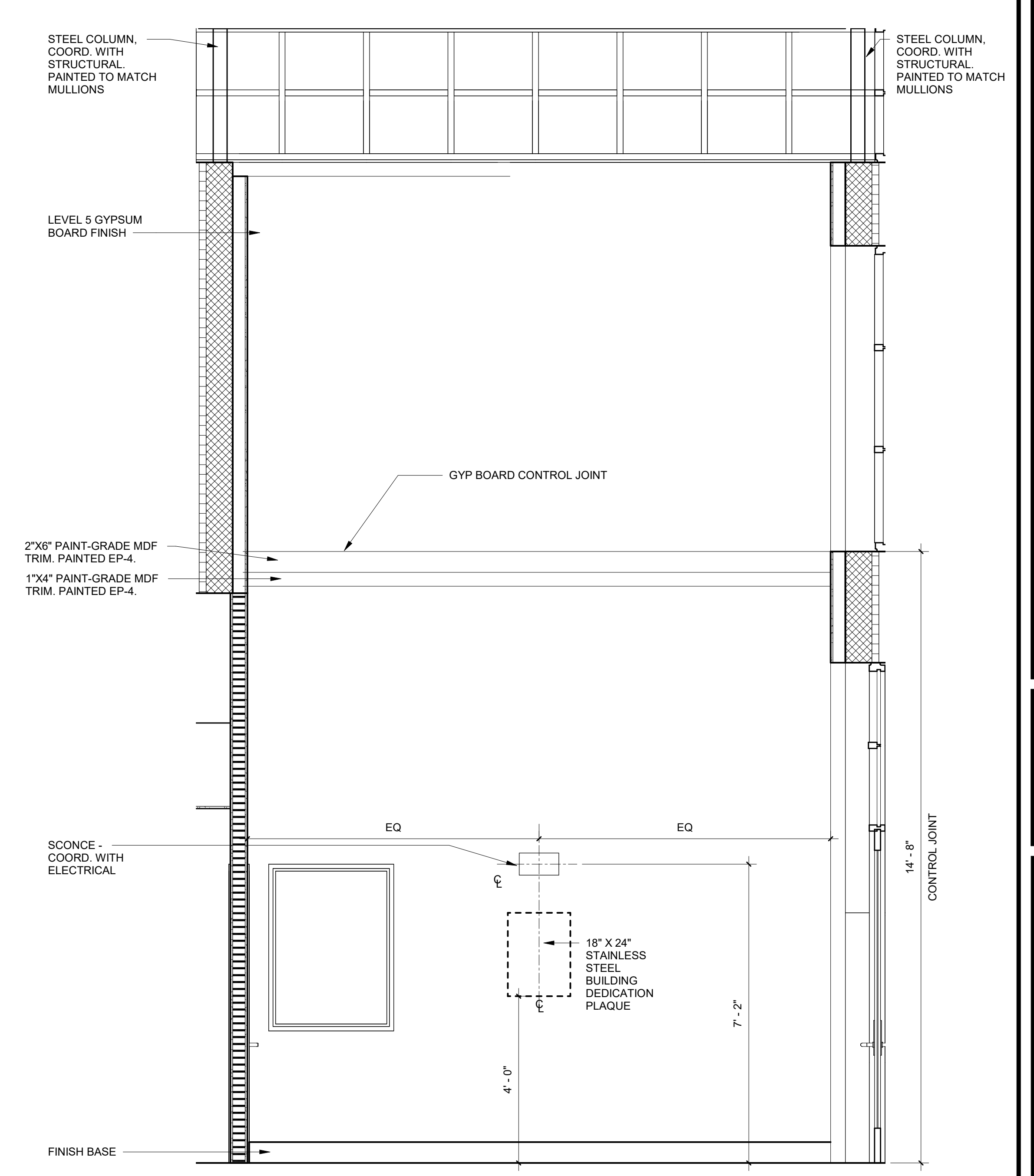
1 148 MEZZANINE GUARDRAIL



2 100 ENTRY VESTIBULE

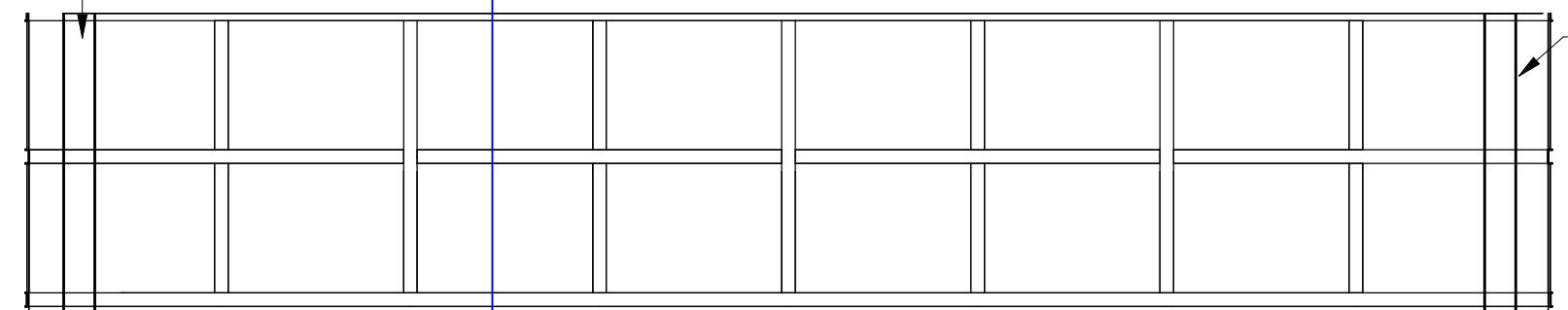
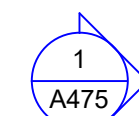


3 100 ENTRY VESTIBULE

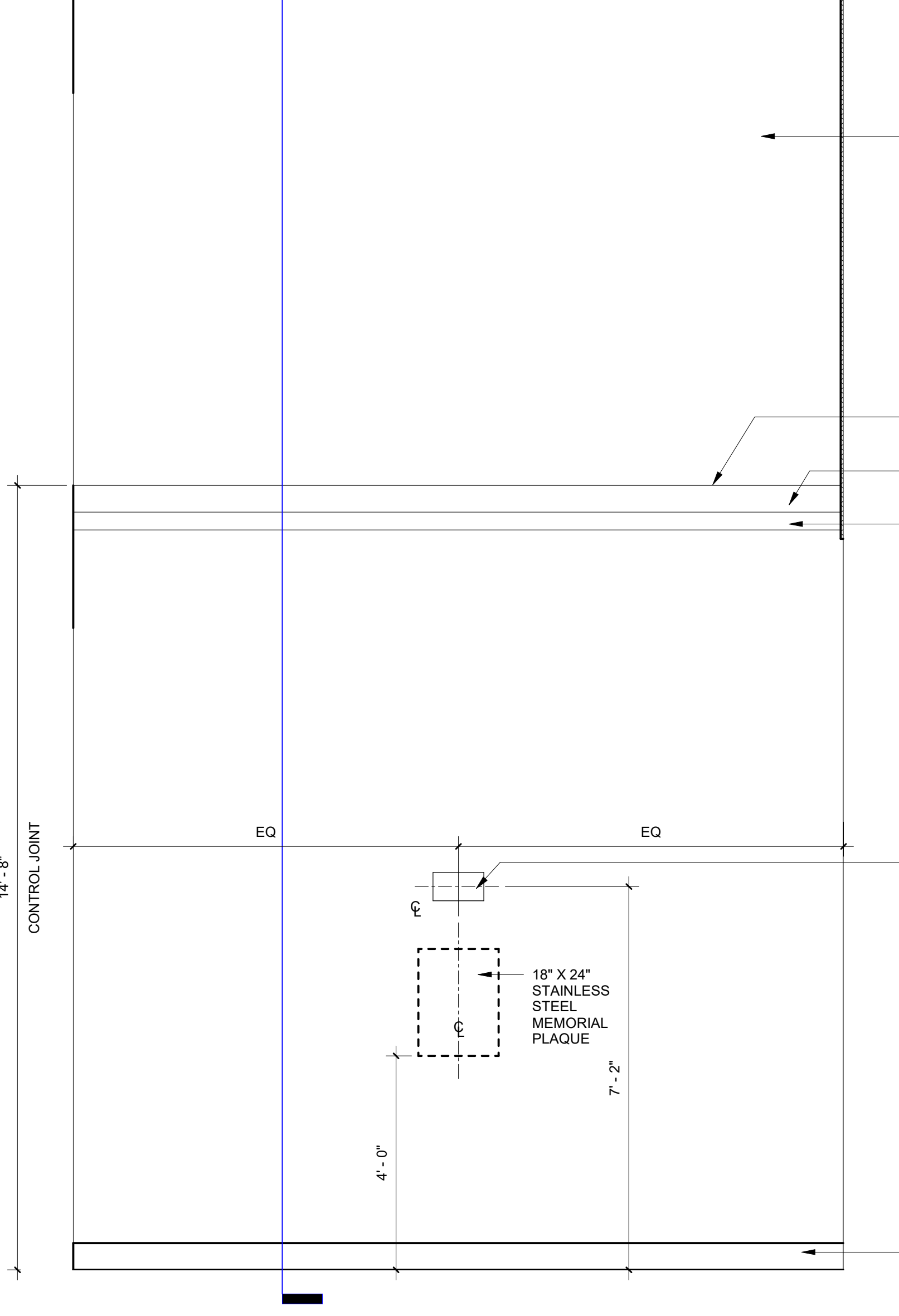


4 100 ENTRY VESTIBULE

STEEL COLUMN,
COORD. WITH
STRUCTURAL,
PAINTED TO MATCH
MULLIONS



STEEL COLUMN,
COORD. WITH
STRUCTURAL,
PAINTED TO MATCH
MULLIONS



LEVEL 5 GYPSUM BOARD
FINISH

GYP BOARD CONTROL JOINT

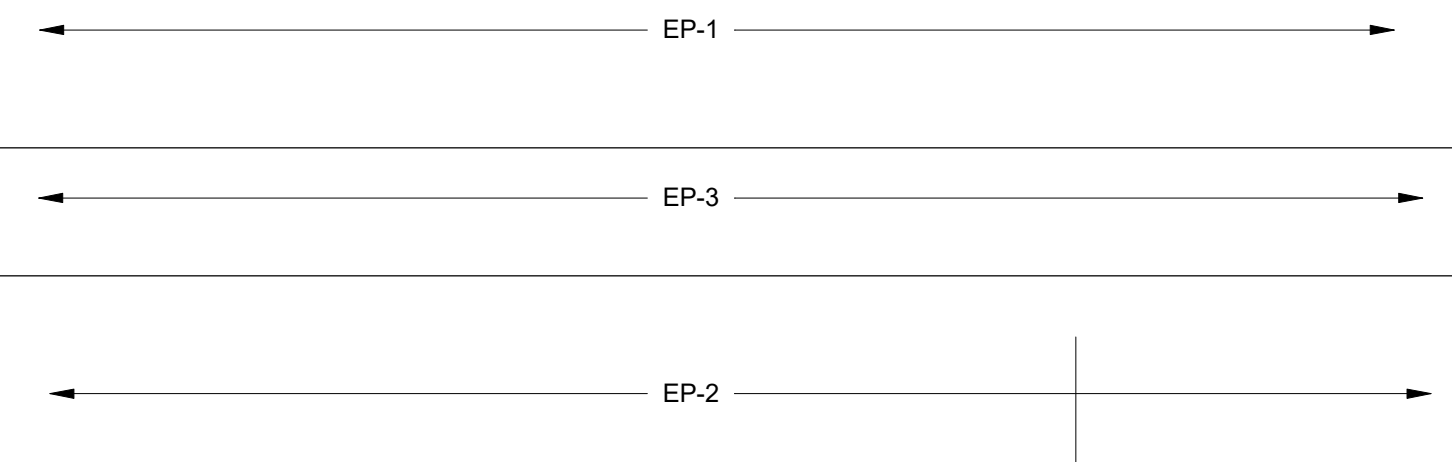
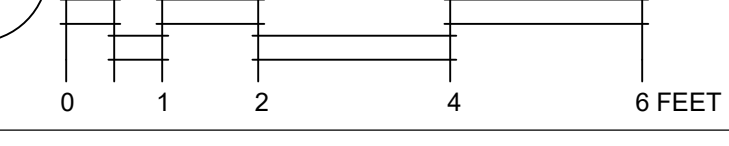
2"x6" PAINT-GRADE MDF
TRIM, PAINTED EP-4,
1"x4" PAINT-GRADE MDF
TRIM, PAINTED EP-4.

SCONCE -
COORD. WITH
ELECTRICAL

18" X 24"
STAINLESS
STEEL
MEMORIAL
PLAQUE

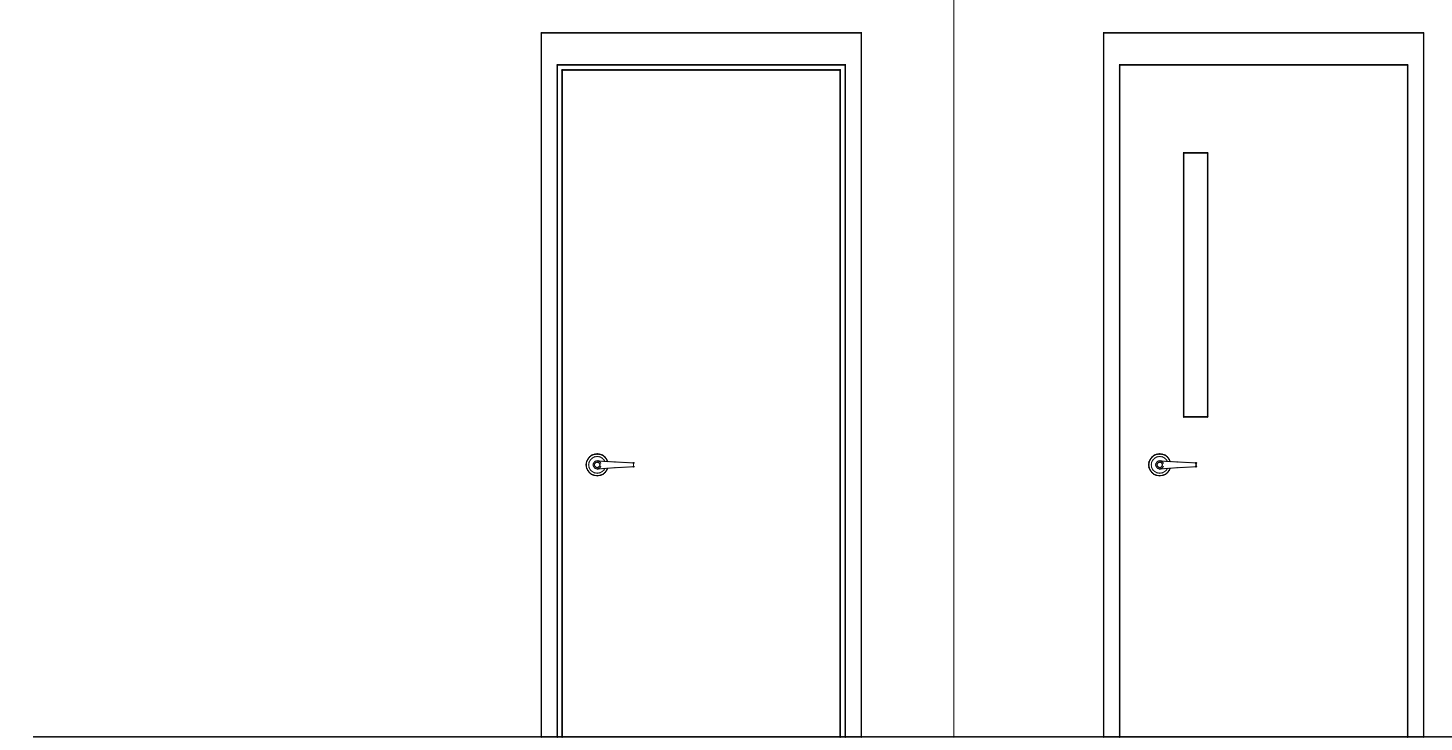
FINISH BASE

1 100 ENTRY VESTIBULE

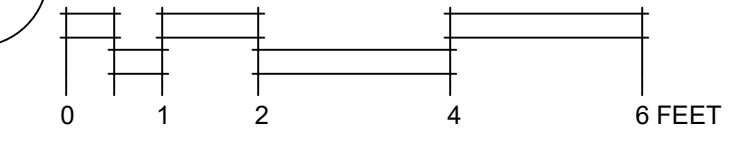


1'-4"

12'-0"

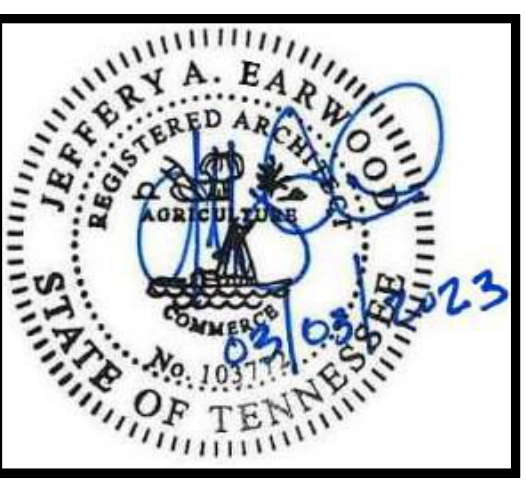


2 APPARATUS BAY



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TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE

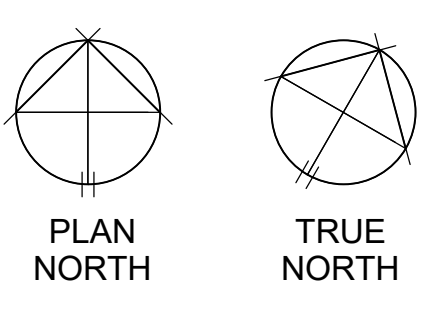
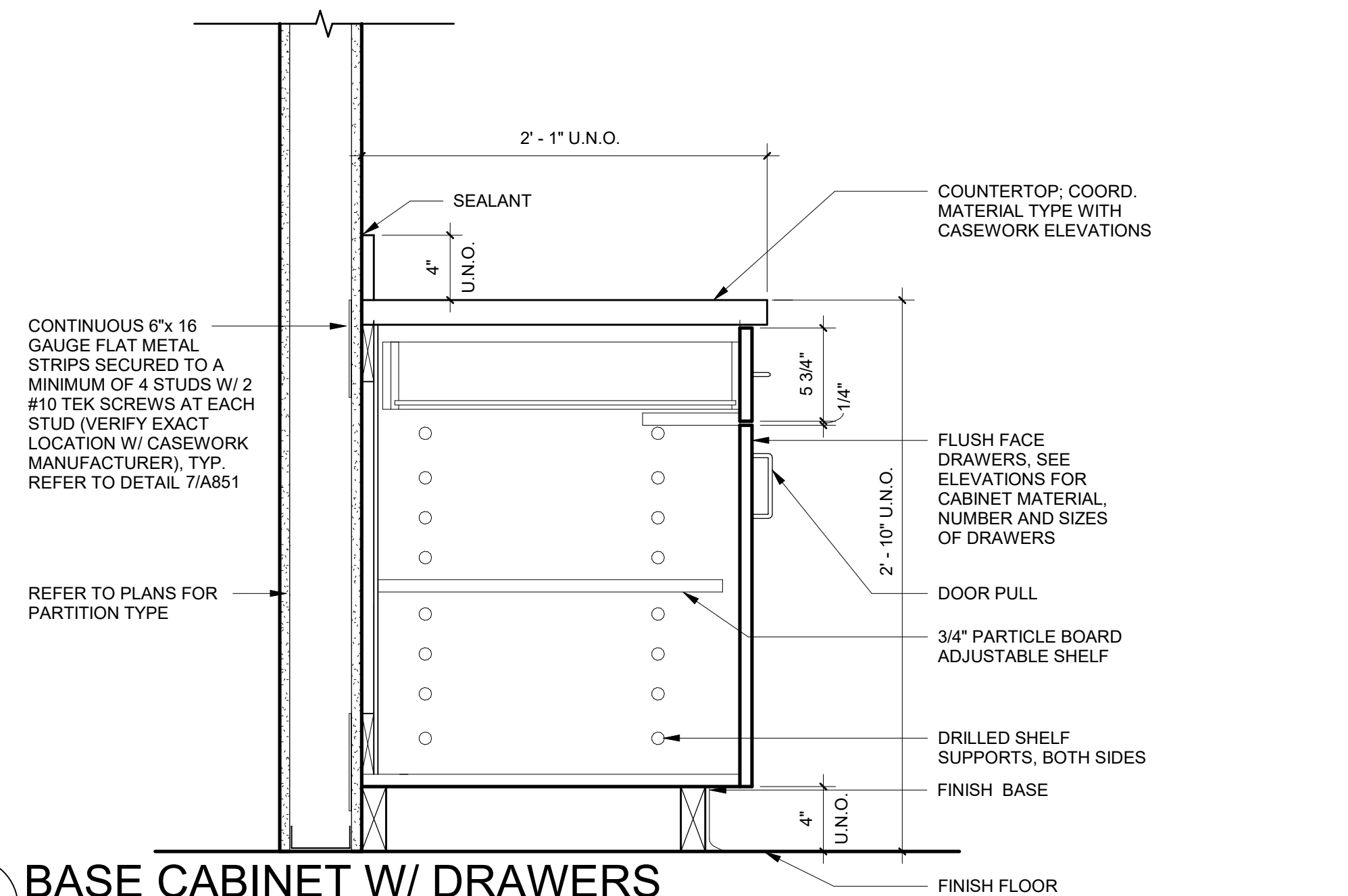


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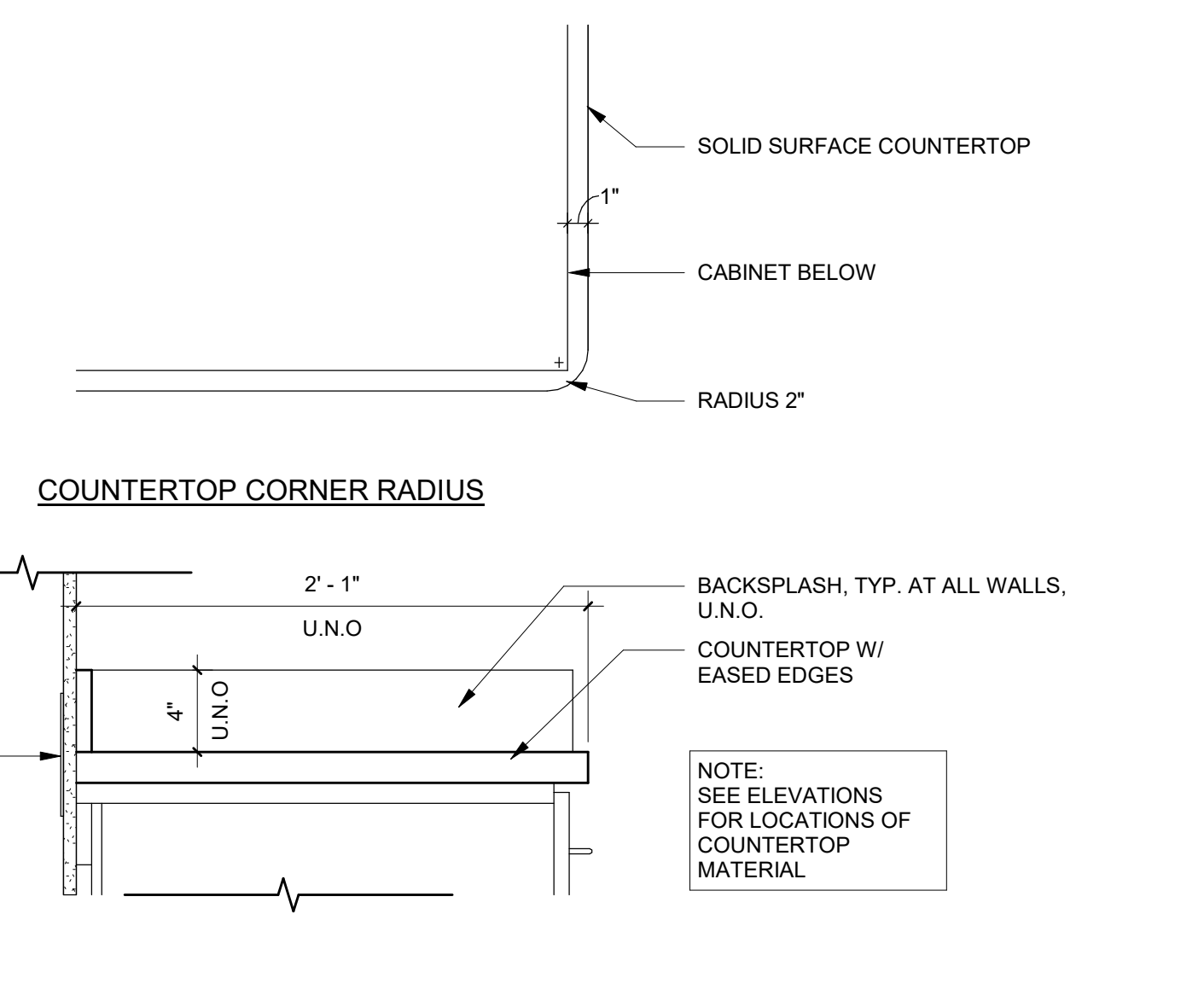
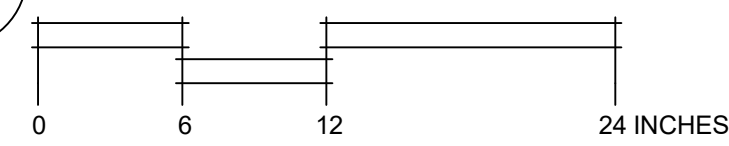
Table with 2 columns: Role, Name. Header: DR. BY, CK. BY, PROJ. NO., DATE.

INTERIOR
ELEVATIONS

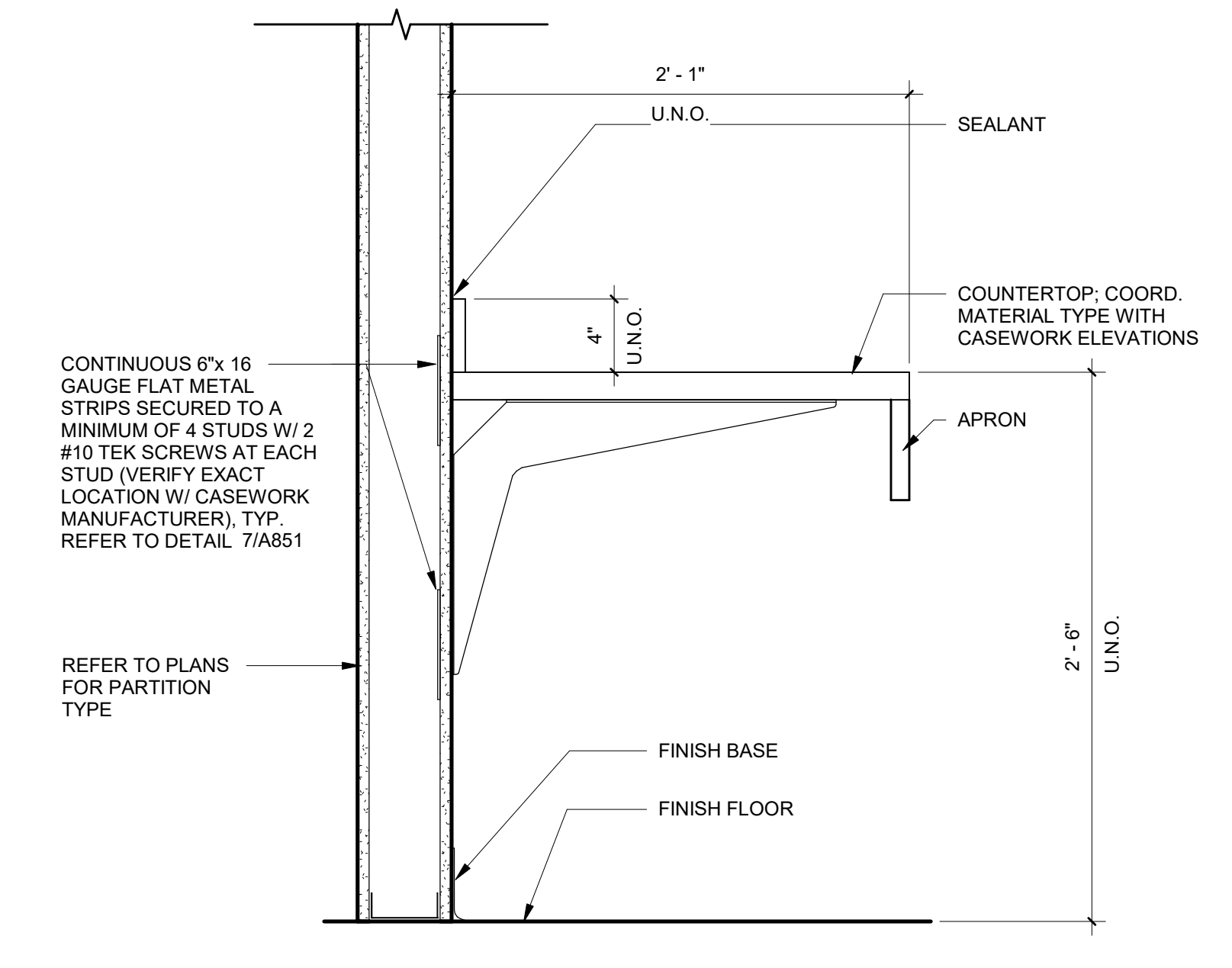
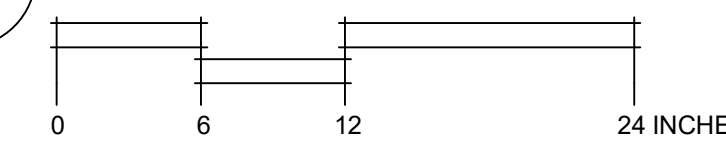
A653



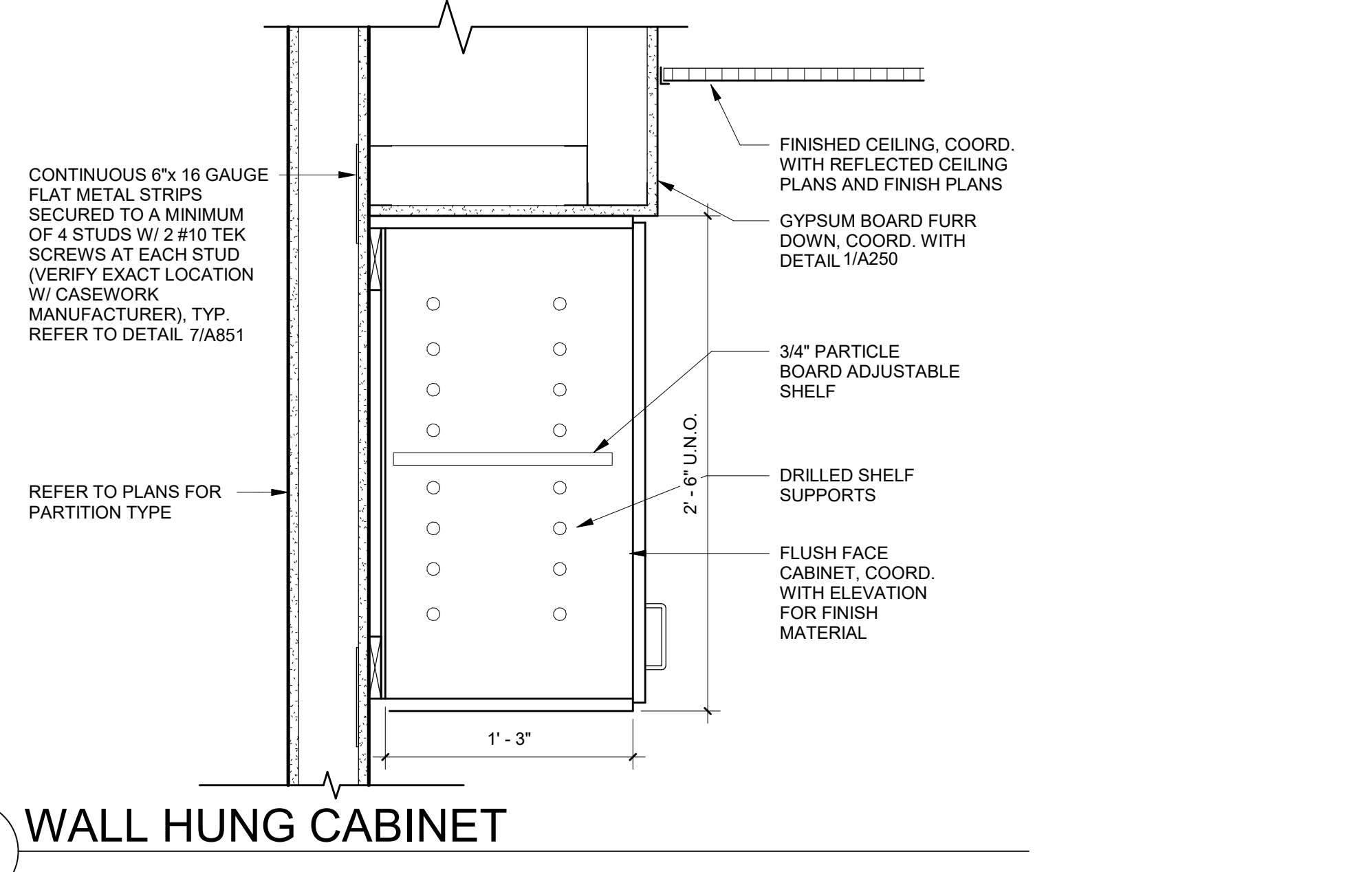
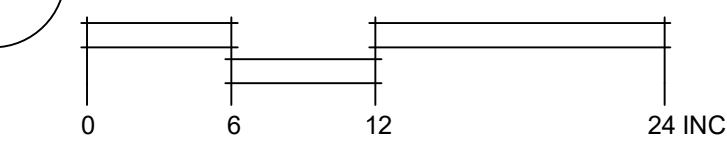
1 BASE CABINET W/ DRAWERS



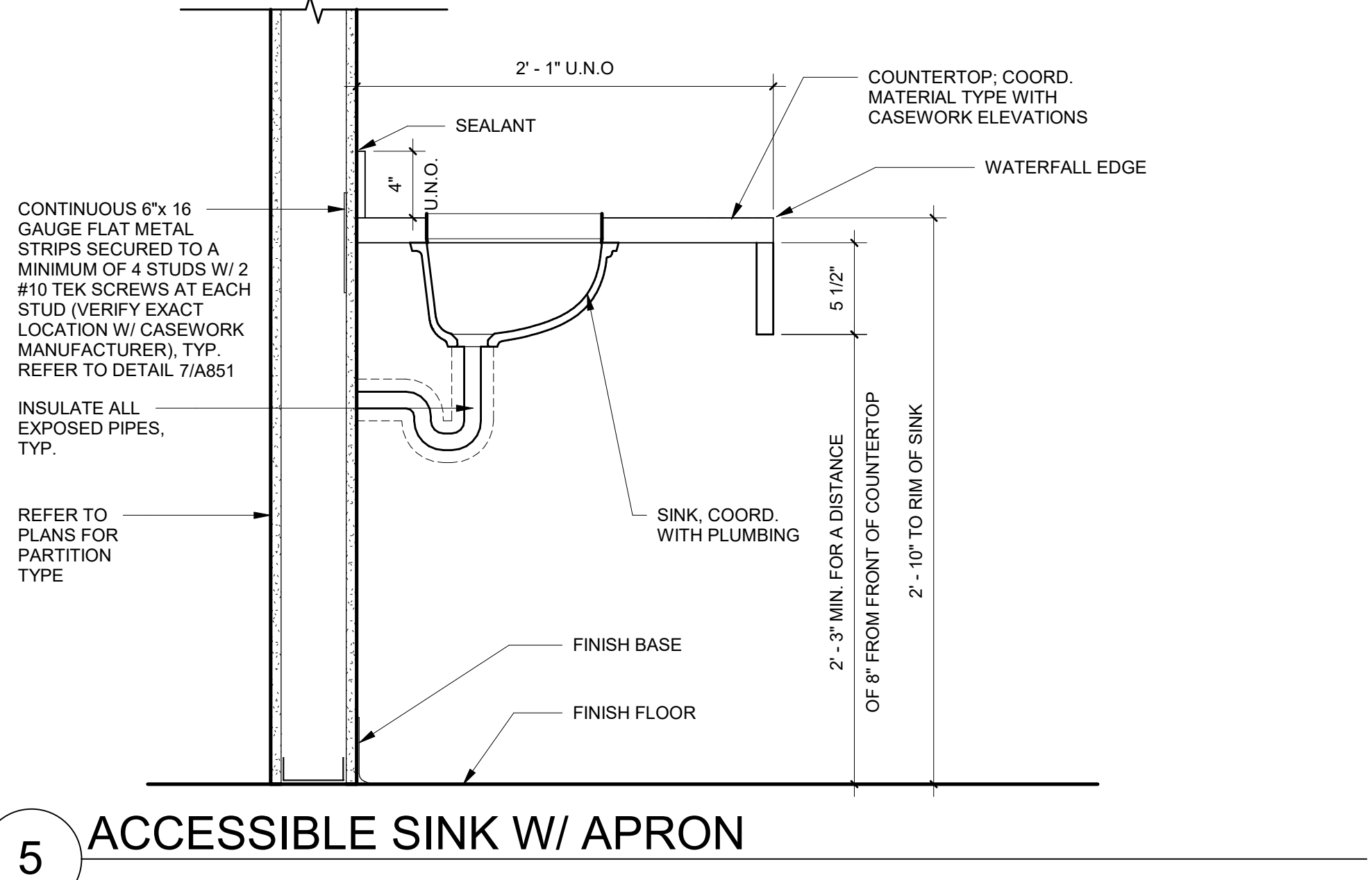
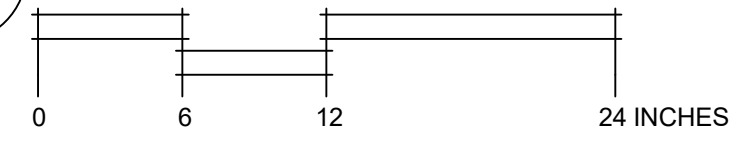
2 COUNTERTOP



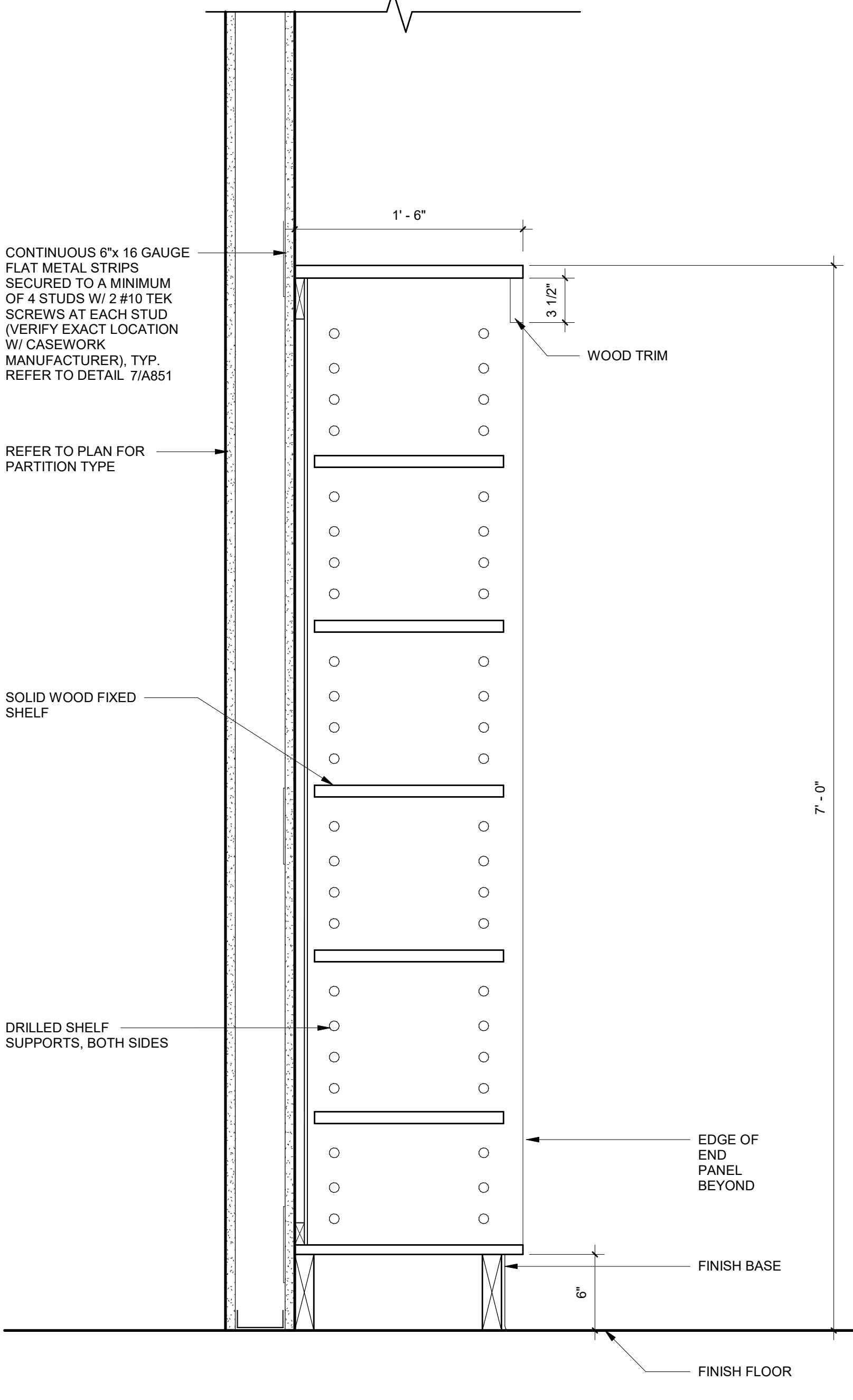
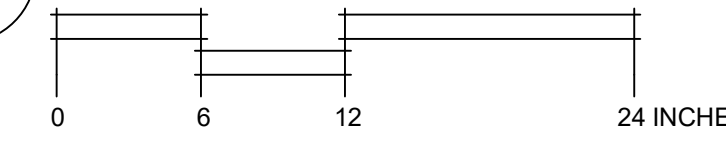
3 COUNTERTOP - WORK STATION BRACKET



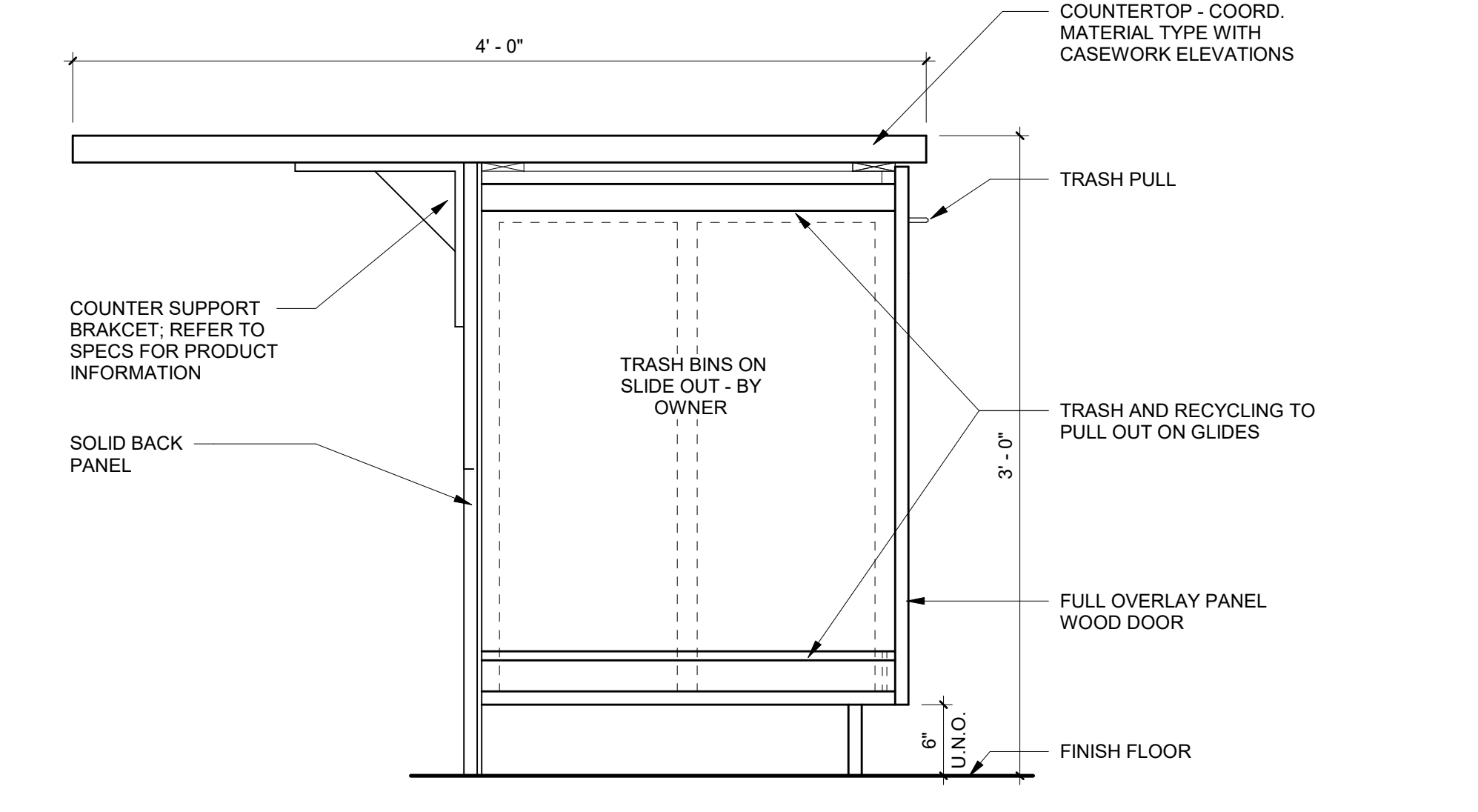
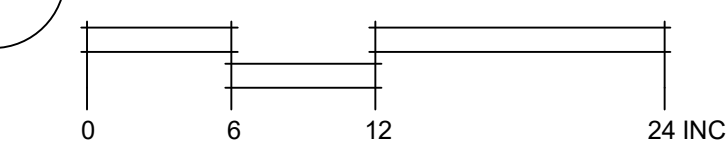
4 WALL HUNG CABINET



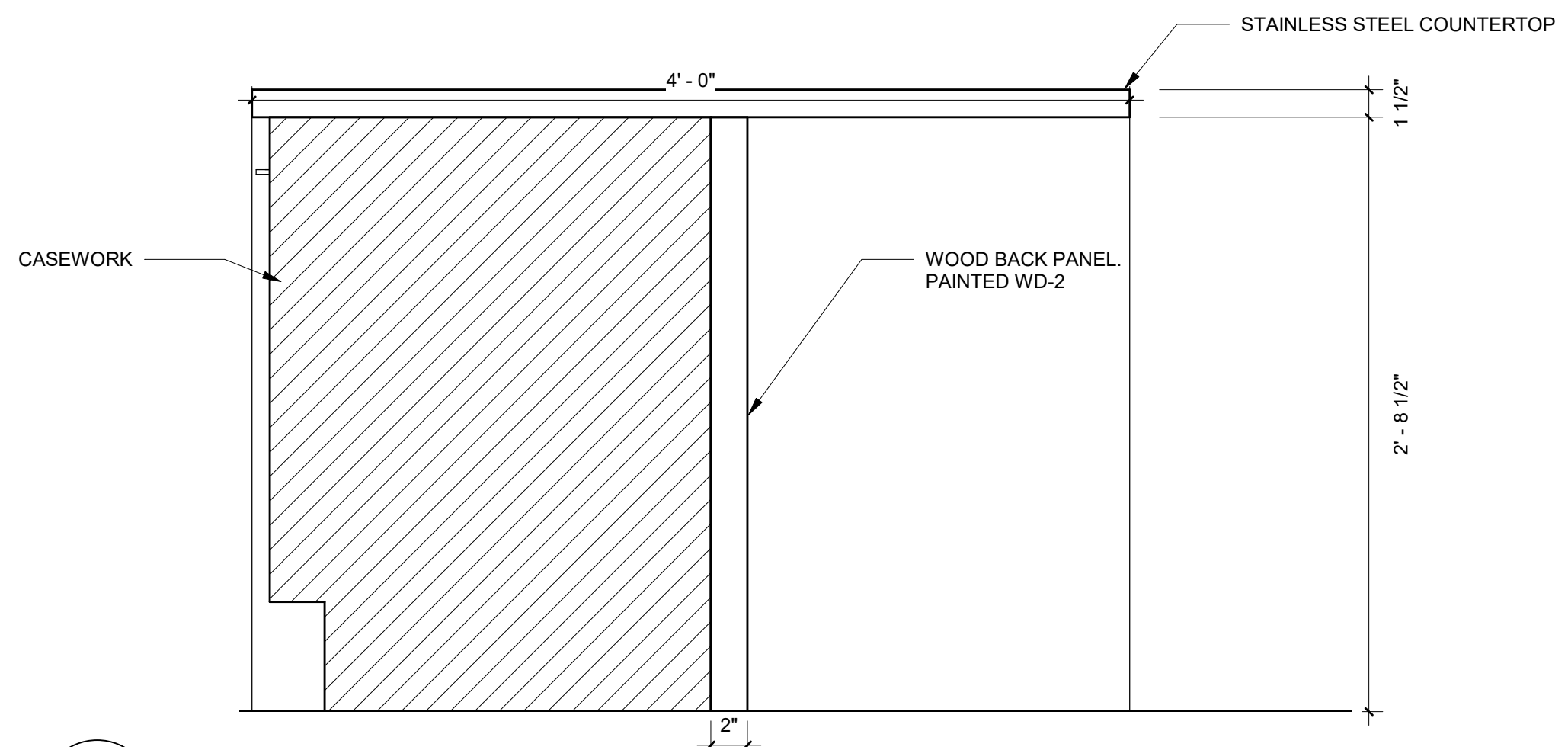
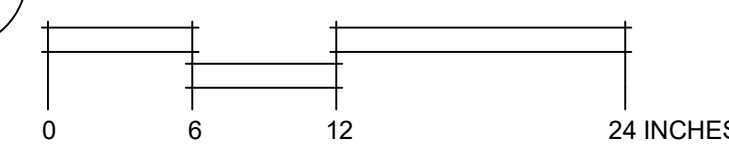
5 ACCESSIBLE SINK W/ APRON



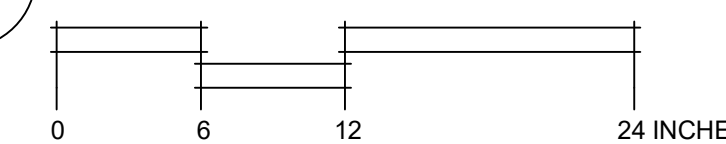
8 FULL HEIGHT OPEN SHELVES



6 BASE CABINET AT TRASH AND RECYCLING

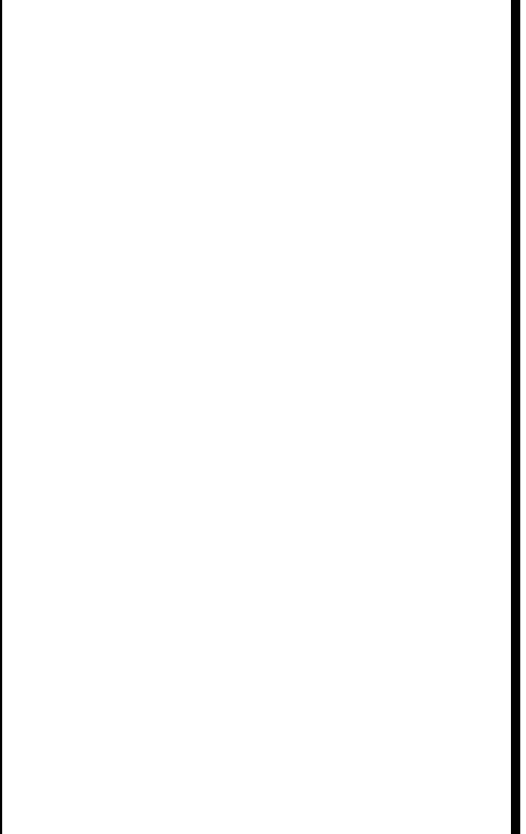
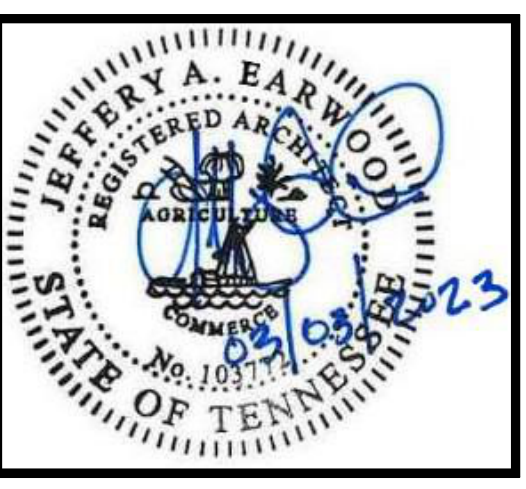


7 ISLAND SECTION



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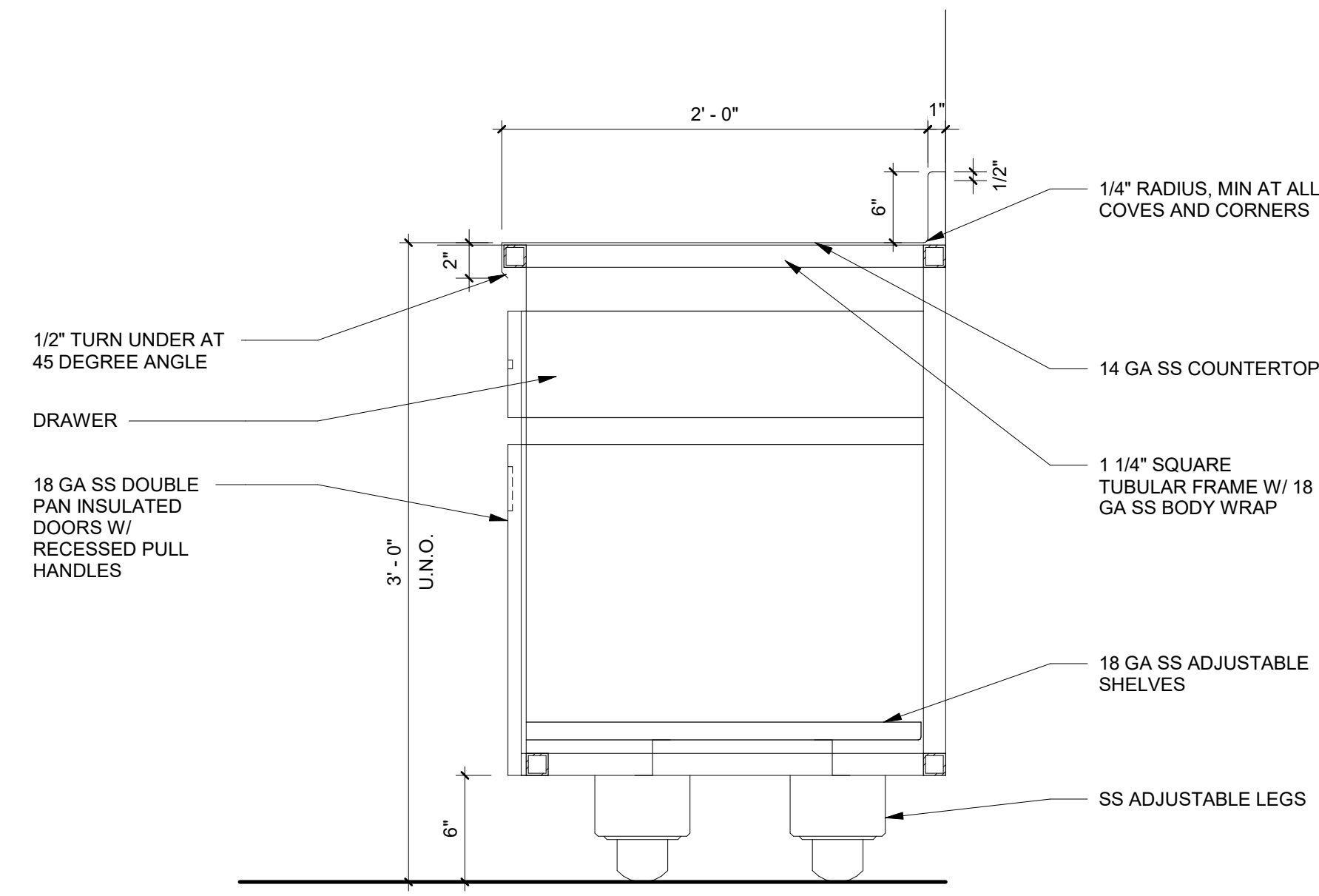


**TOWN OF NOLENSVILLE
FIRE STATION #1**
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NOLENSVILLE, TENNESSEE

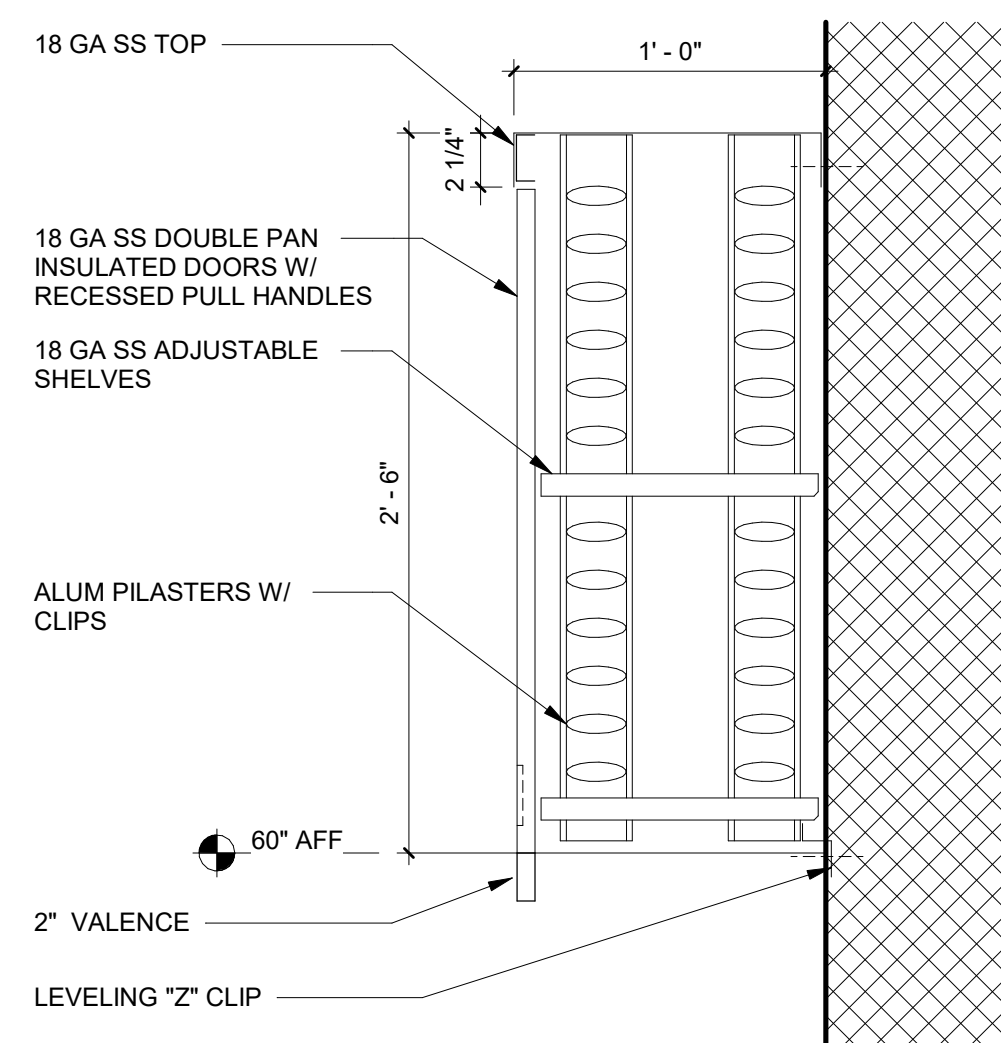
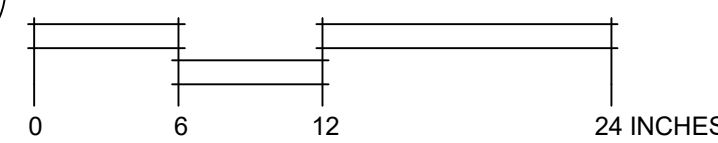
REVISIONS	

DR. BY	KK
CK. BY	LS
PROJ. NO.	A01122
DATE	03/03/23
CASEWORK DETAILS	

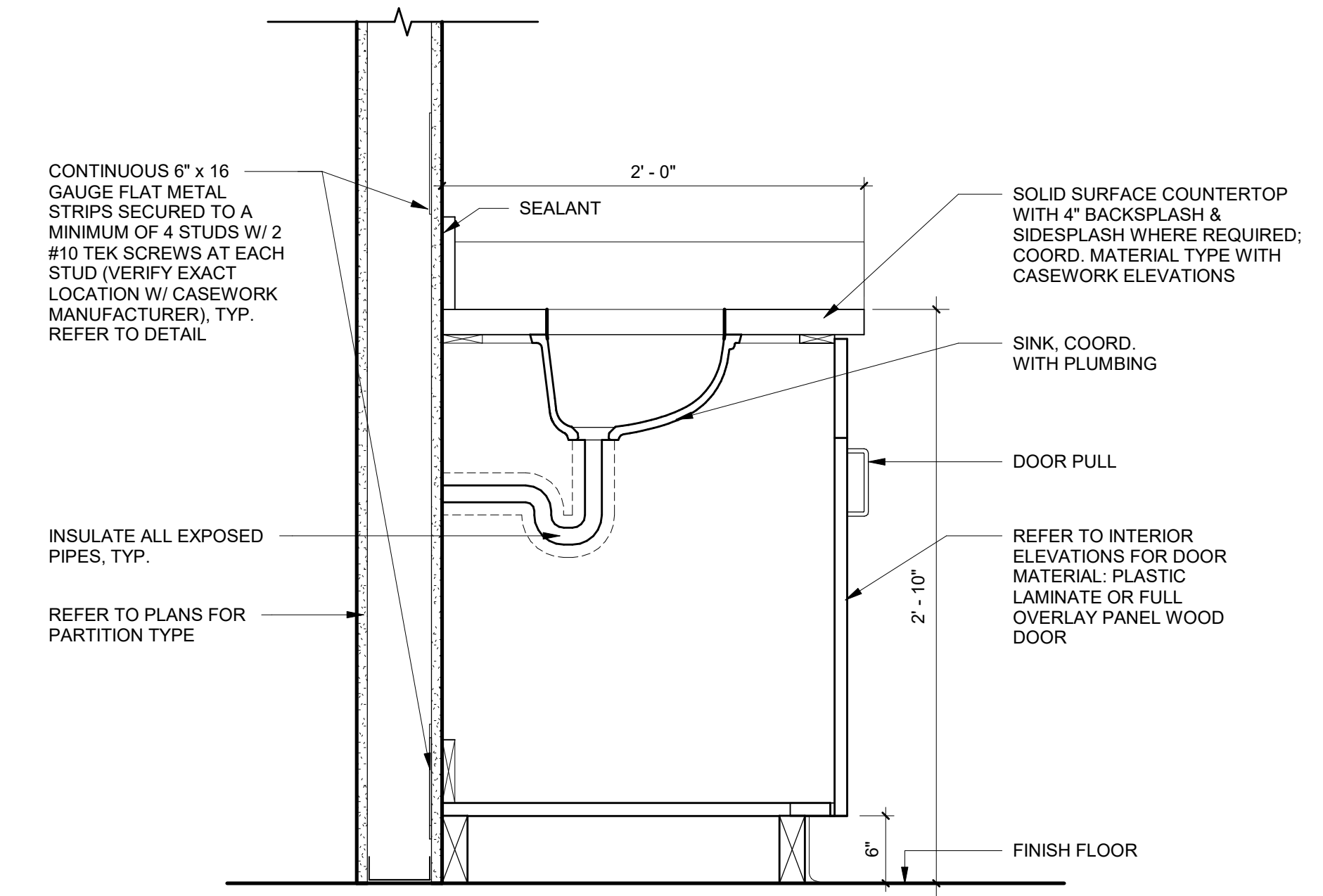
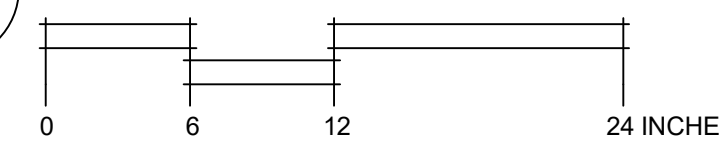
A850



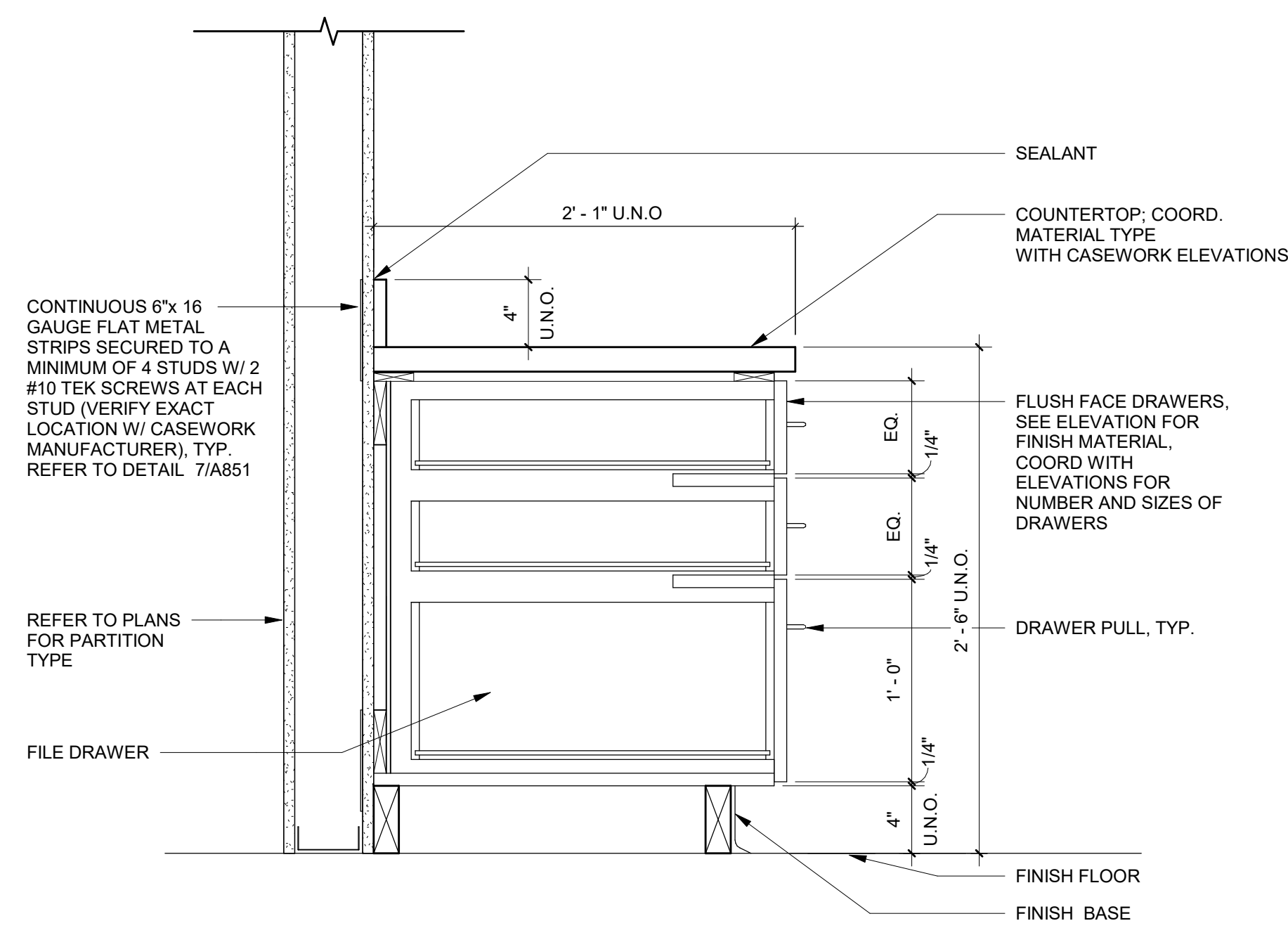
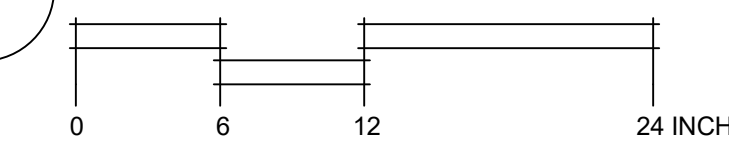
1 STAINLESS STEEL BASE CABINET W/ DRAWER - TYP.



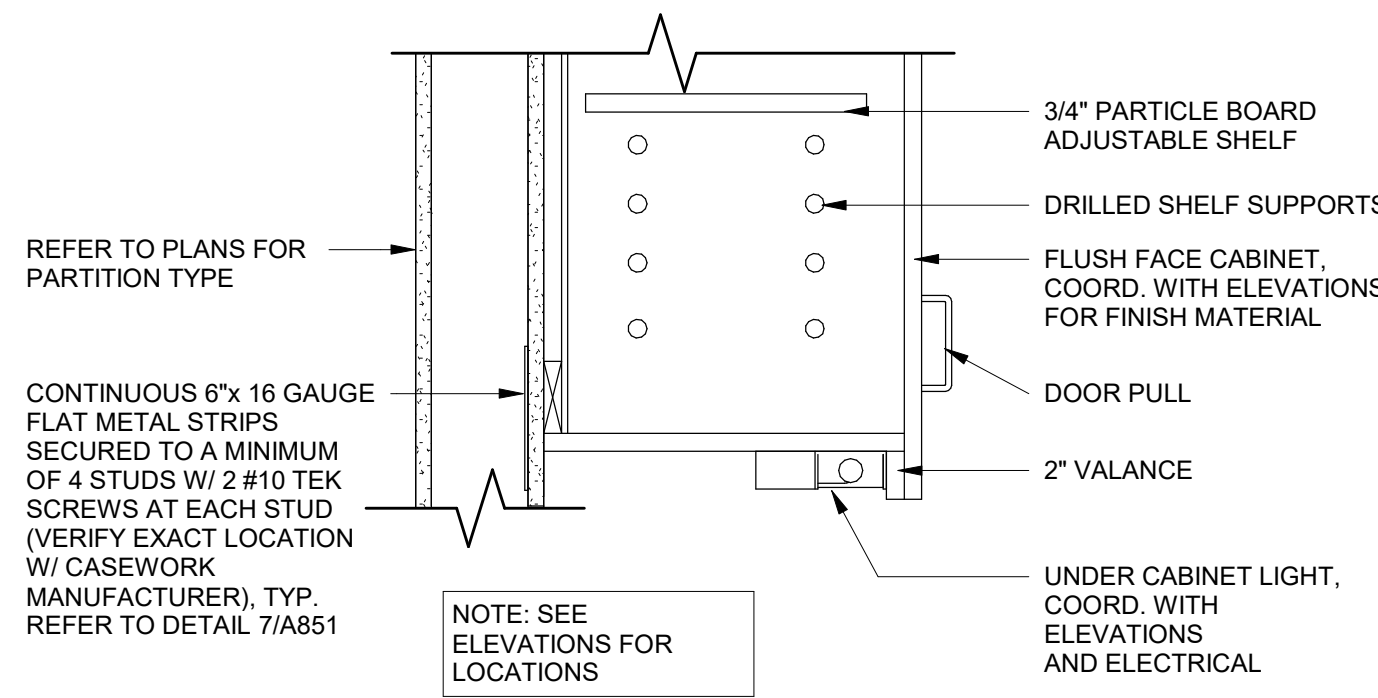
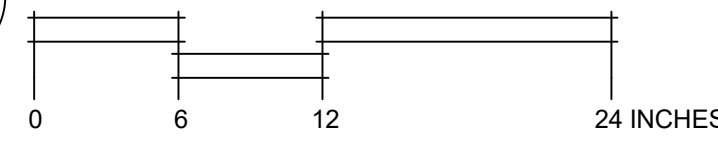
2 STAINLESS STEEL UPPER CABINET - TYP.



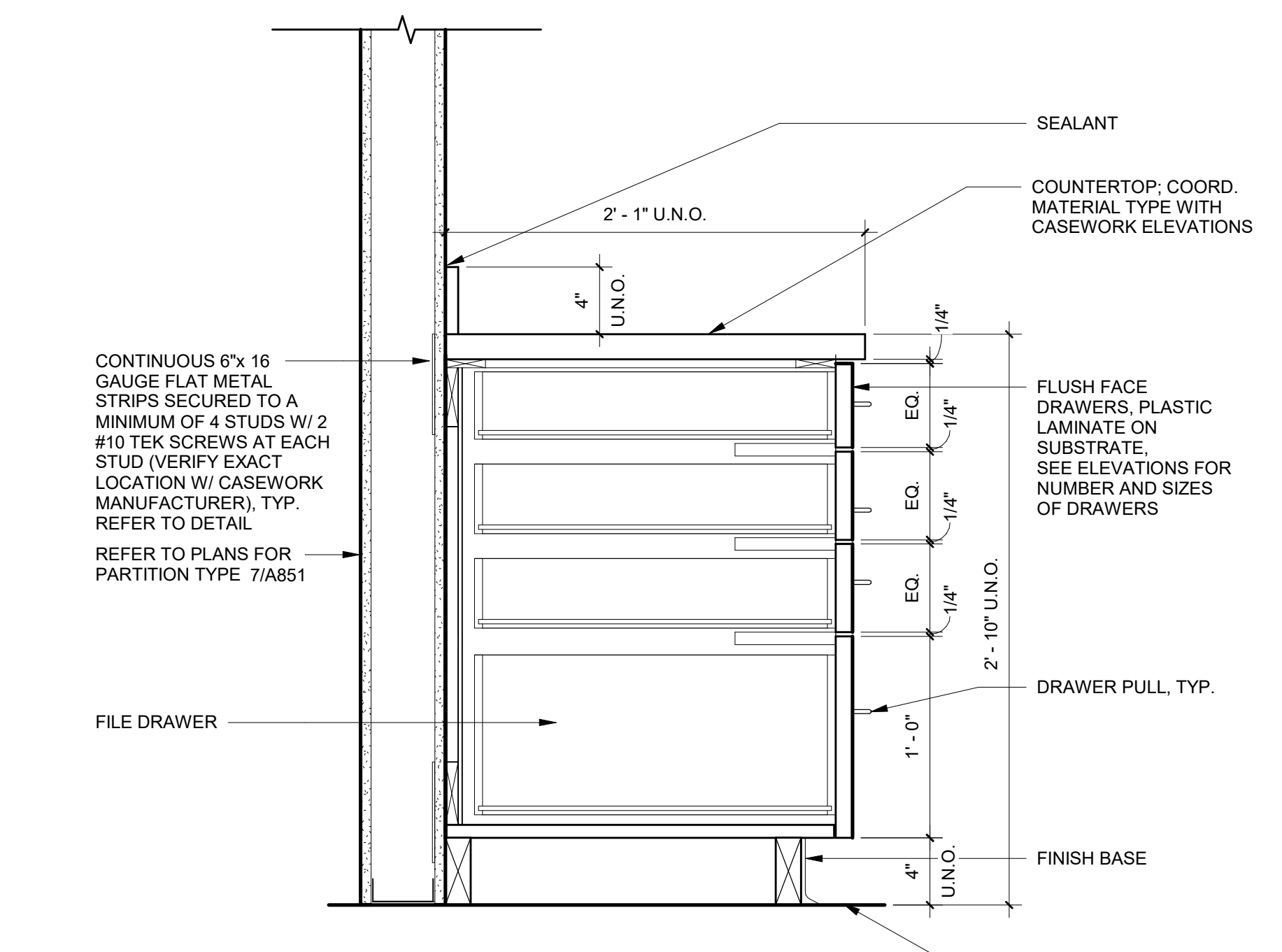
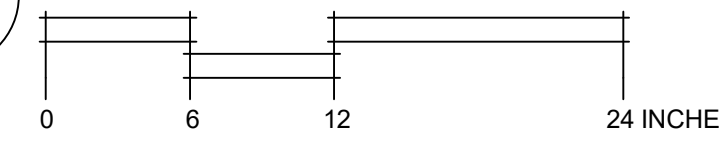
3 BASE CABINET AT SINK



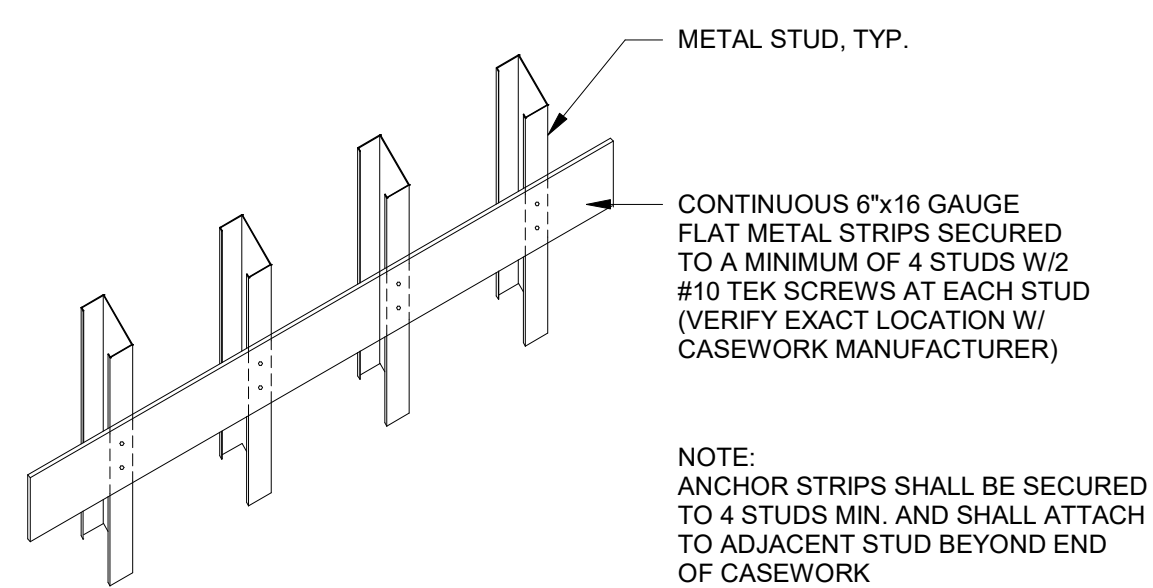
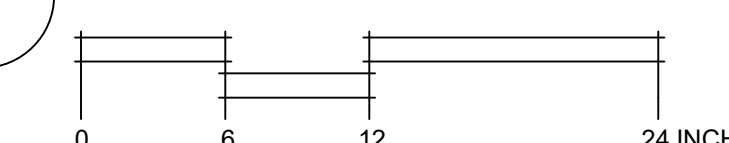
4 3 DRAWER BASE CABINET



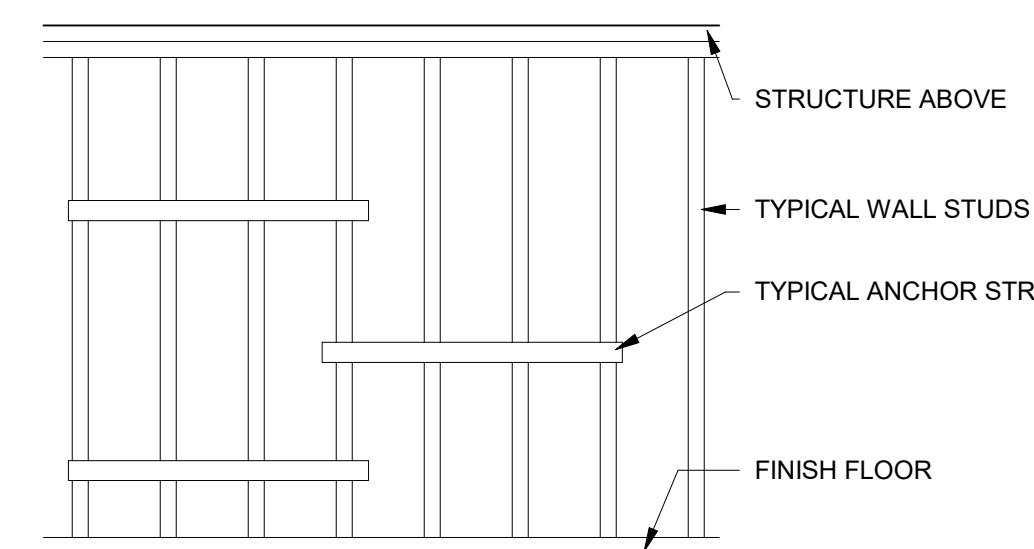
5 TYPICAL LIGHT VALANCE DETAIL



6 4 DRAWER BASE CABINET

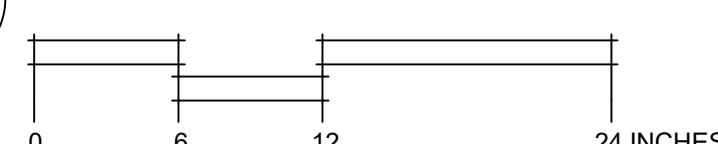


ISOMETRIC OF BACKING STRIPS



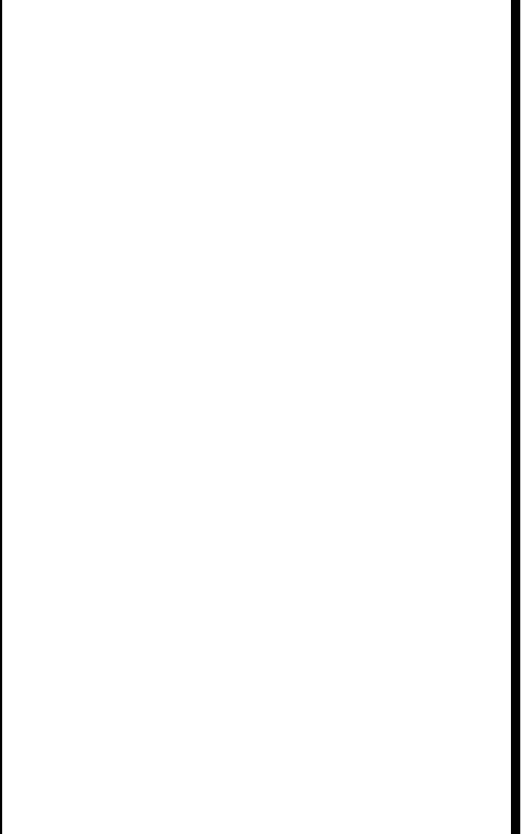
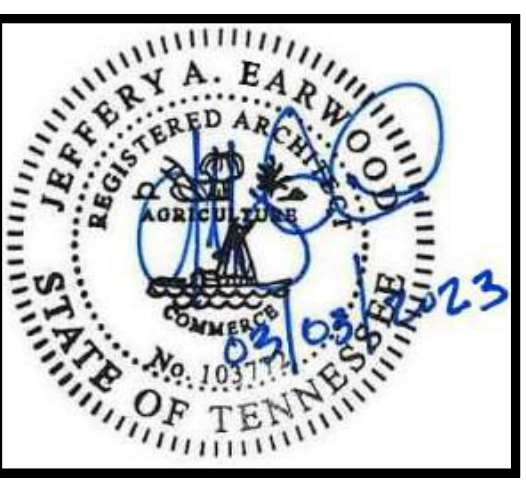
ELEVATION OF BACKING STRIPS

7 TYPICAL ANCHORAGE DETAILS

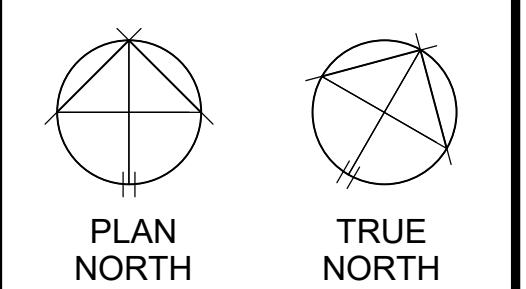


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TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE

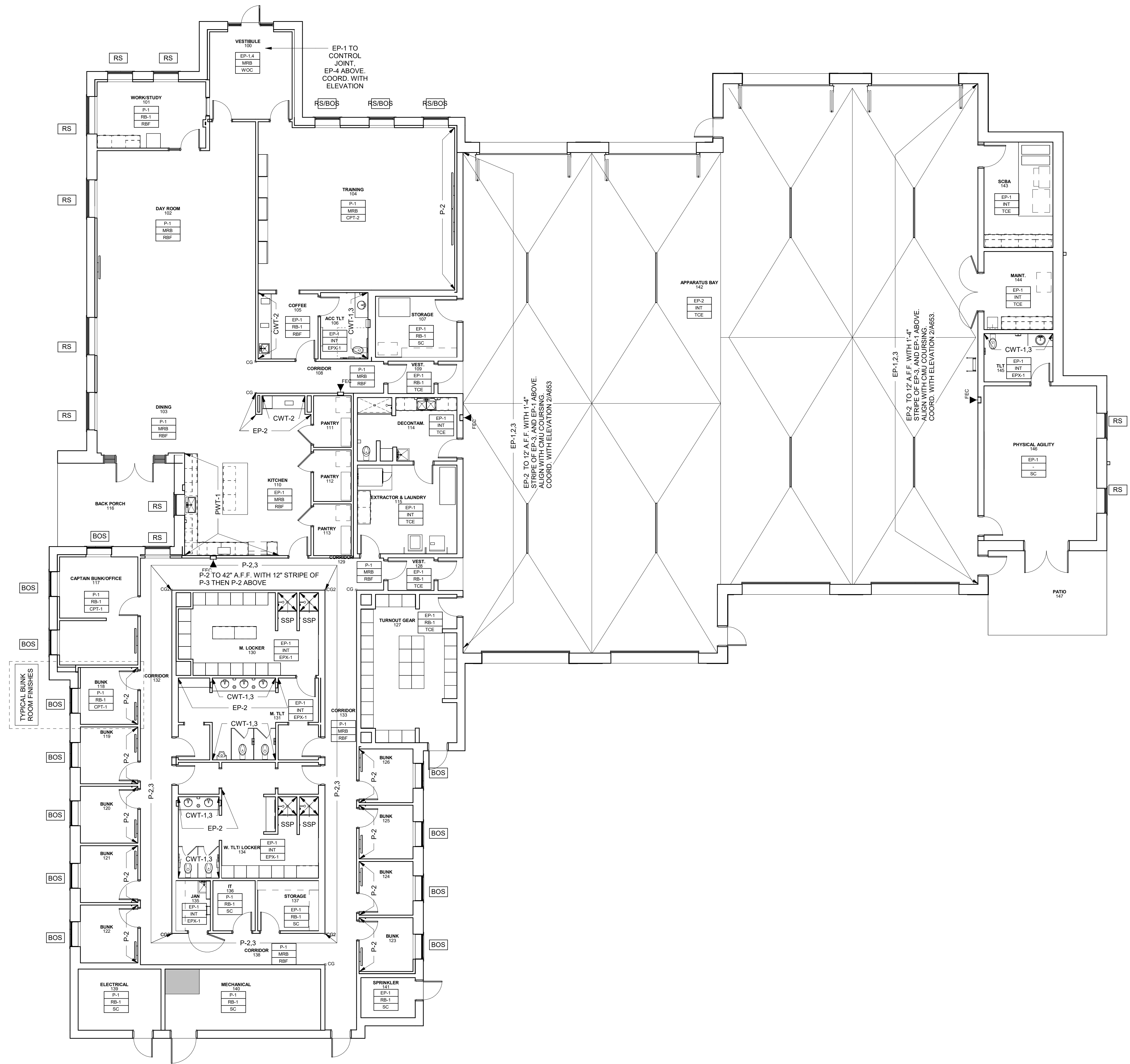


REVISIONS	

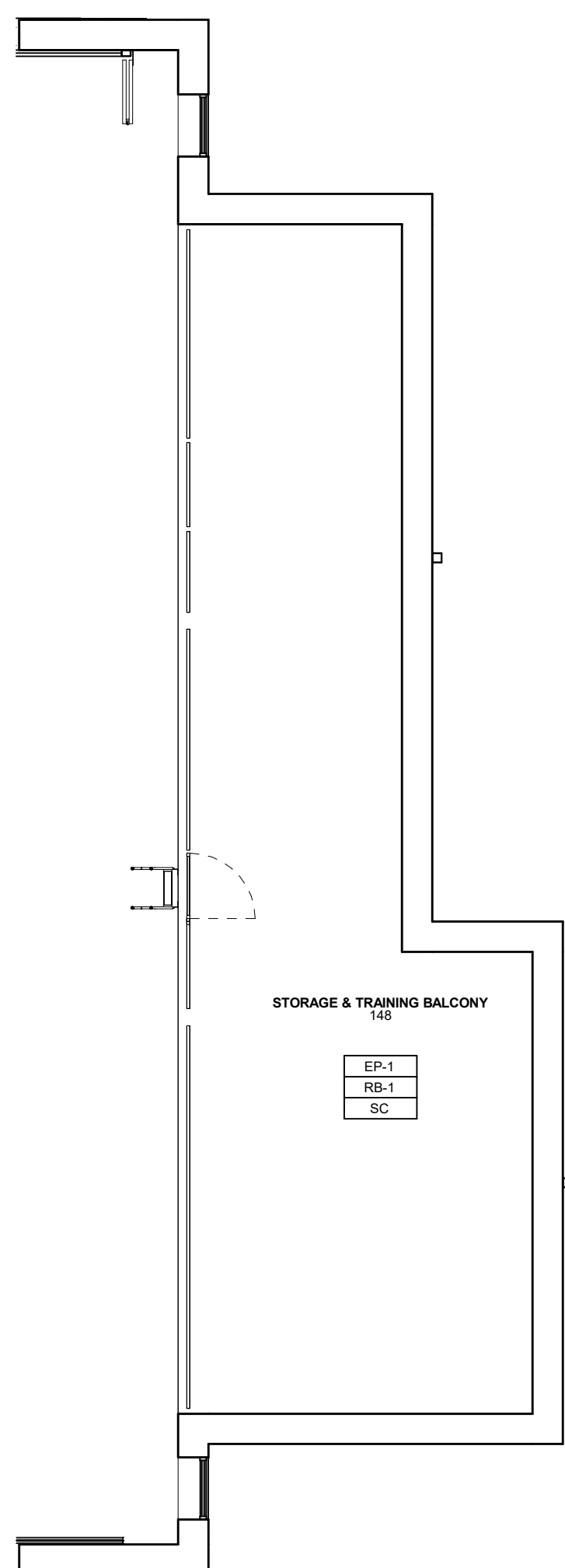
DR. BY	KK
CK. BY	LS, HC
PROJ. NO.	A01122
DATE	03/03/23

CASEWORK
DETAILS

A851



1 LEVEL 1 FINISH PLAN



2 LEVEL 2 FINISH PLAN

FINISH ROOM LEGEND AND NOTES

1. ALL FURNITURE IS OWNER FURNISHED/OWNER INSTALLED UNLESS NOTED OTHERWISE.
2. NO PAINTING OR INTERIOR FINISHING/INSTALLATION SHALL BE DONE UNDER CONDITIONS WHICH WILL JEOPARDIZE THE QUALITY OR APPEARANCE OF SUCH WORK. ALL SURFACES SHALL BE PROPERLY PREPARED TO RECEIVE THE SPECIFIED FINISH. ALL DEFECTS SHALL BE REPAIRED TO MATCH RELATED SURFACES. EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND PROCEED WITH "TOUCH-UP" AS REQUIRED. ARCHITECT TO APPROVE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALLOWING FOR DELIVERY LEAD TIMES FOR ALL FINISHES WITHIN THE CONSTRUCTION SCHEDULE. ALL DELIVERY ITEMS MUST BE CONFIRMED AND ANY EXCESSIVE LEAD TIME MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY TO ALLOW FOR RE-SPECIFICATION IF NECESSARY.
4. AREAS SHOWN ARE FOR REFERENCE AND ESTIMATION ONLY. CONTRACTOR TO VERIFY.

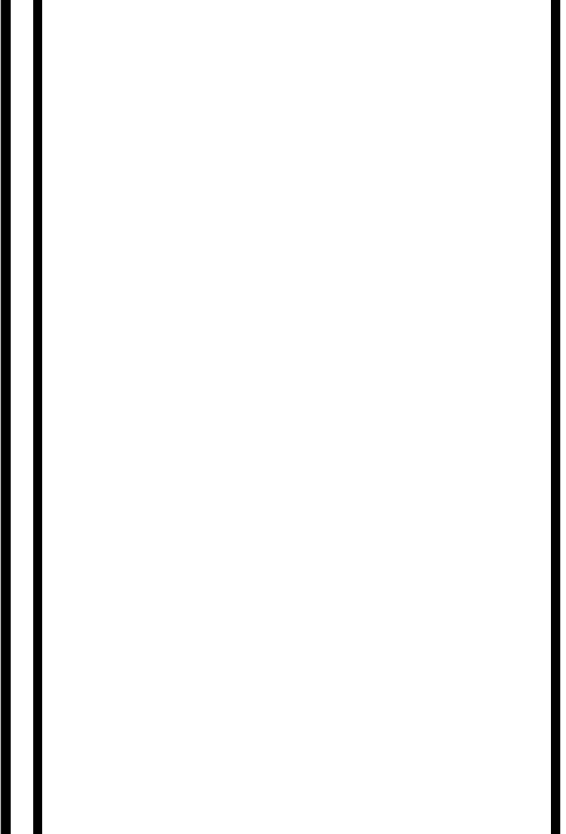
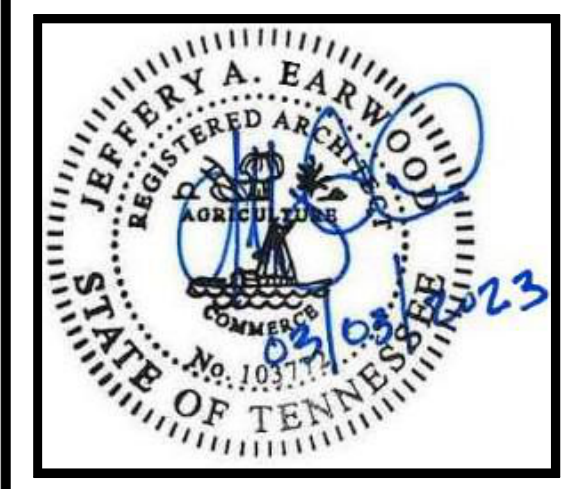
NOTE: BELOW FINISHES ARE TYPICAL PER ROOM UNLESS OTHERWISE NOTED.

- PANTRY
- P-1
- RB-1
- EPX-1

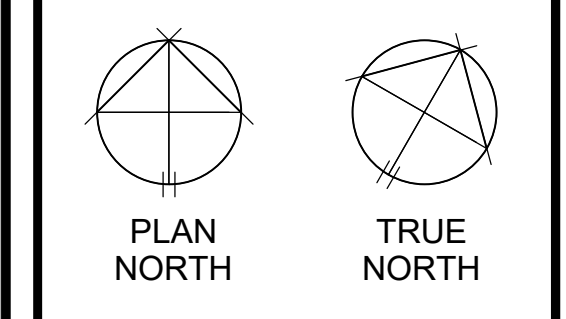


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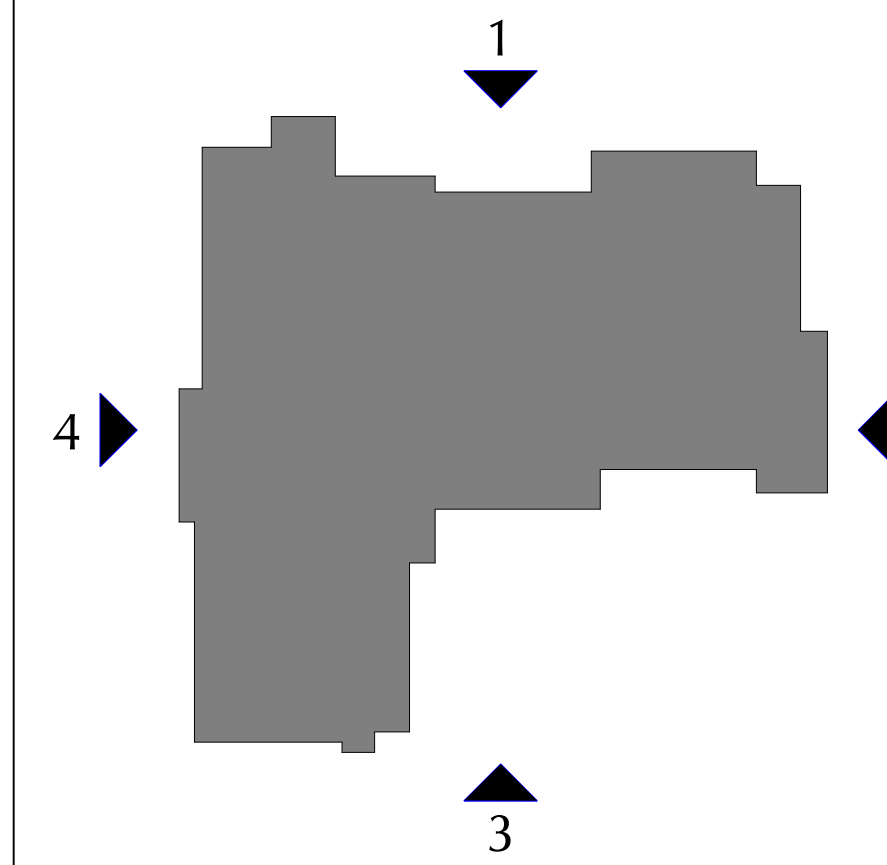
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**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**



KEY PLAN



REVISIONS	

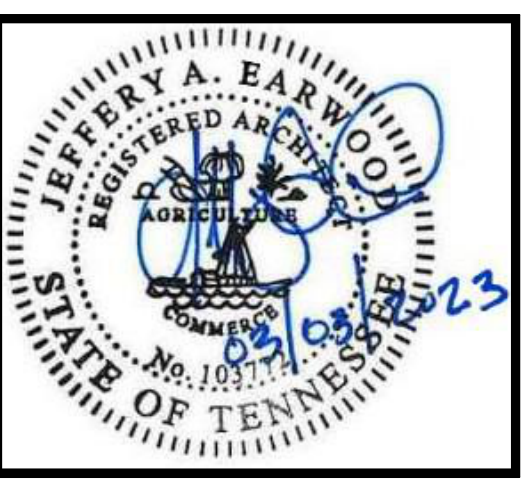
DR. BY	KK
CK. BY	RAM
PROJ. NO.	A01122
DATE	03/03/23
LEVEL 1 FINISH PLAN	

F101

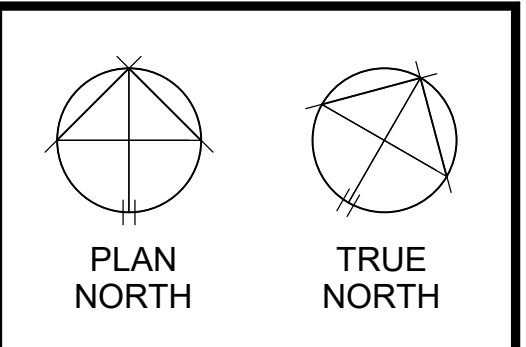
FLOOR PATTERN NOTES
 1. INSTALL PATTERNS AS INDICATED ON THE FLOOR PATTERN PLANS.
 2. IN ROOMS WHERE TILE PATTERN IS NOT INDICATED, CENTER TILE IN ROOMS AND CUT TILES EVENLY ON BOTH SIDES.



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**TOWN OF NOLENSVILLE
 FIRE STATION #1**
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE



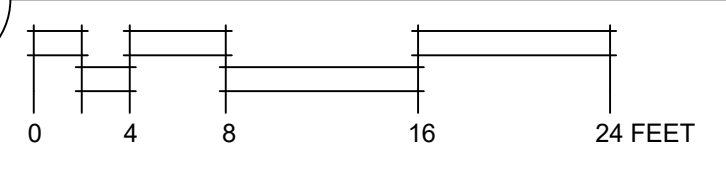
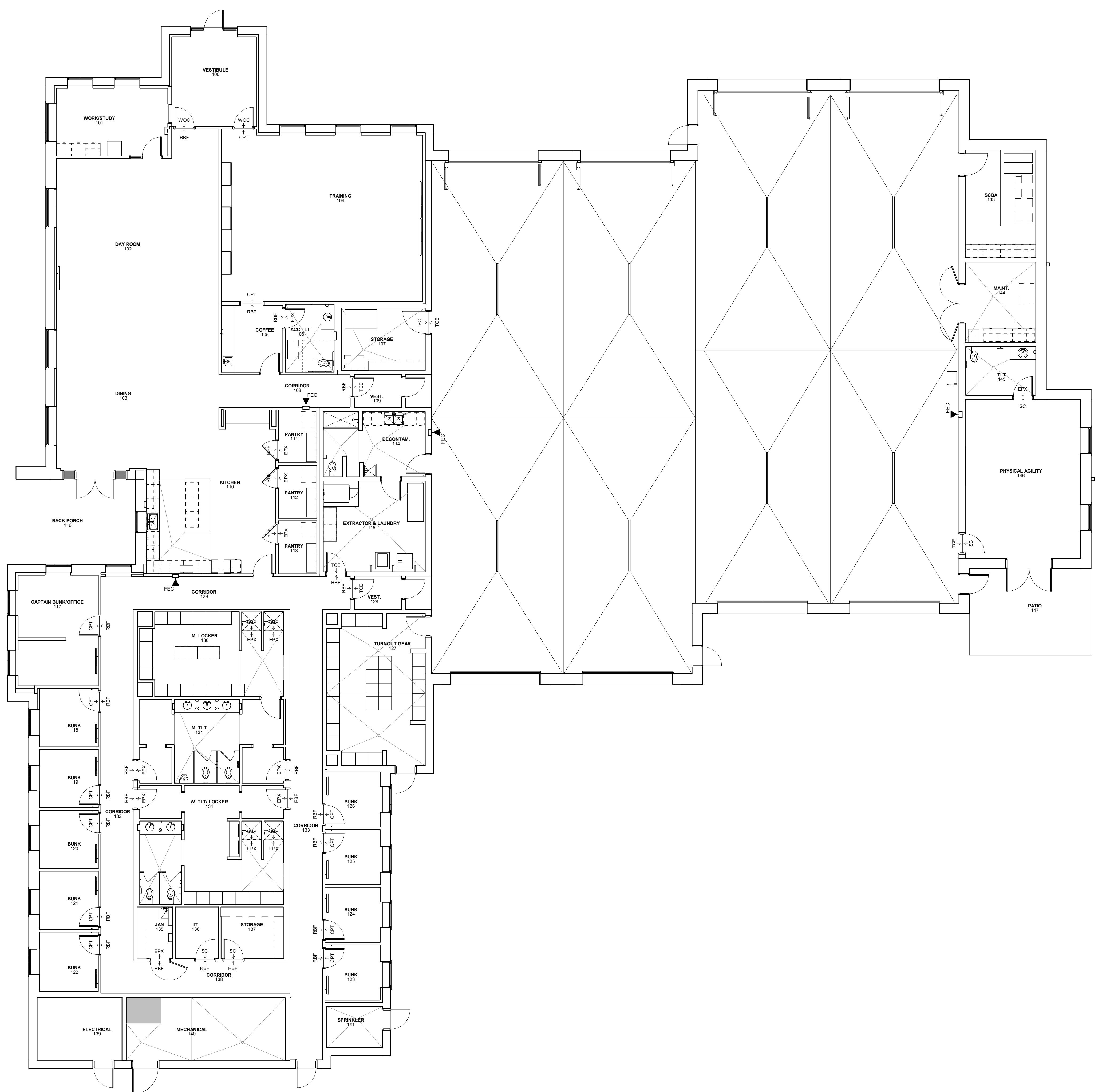
REVISIONS

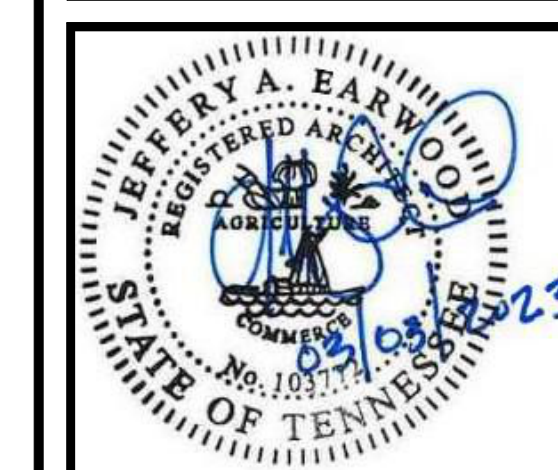
DR. BY	KK
CK. BY	RAM
PROJ. NO.	A01122
DATE	03/03/23

LEVEL 1 FLOOR PATTERN PLAN

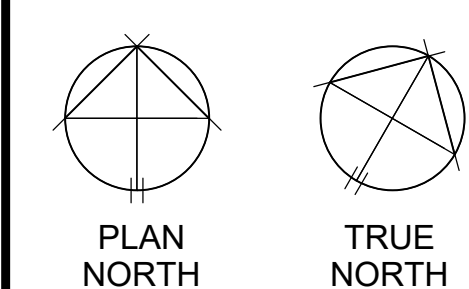
F201

1 LEVEL 1 FLOOR PATTERN PLAN



**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**



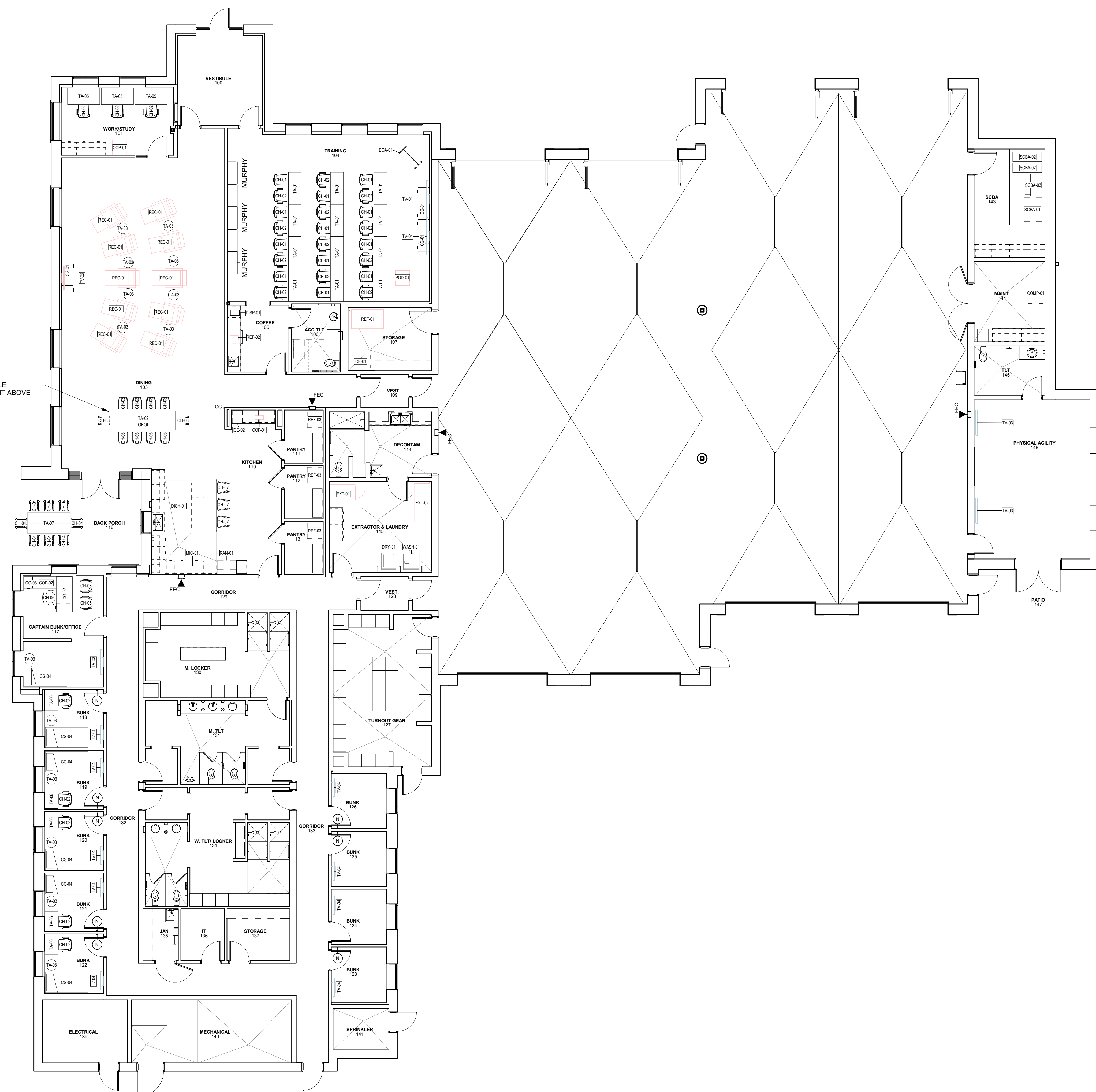
REVISIONS

NO.	DATE	DESCRIPTION

DR. BY KK, AM
CK. BY RAM, LS
PROJ. NO. A01122
DATE 03/03/23

**LEVEL 1
FURNITURE AND
EQUIPMENT PLAN**

F301



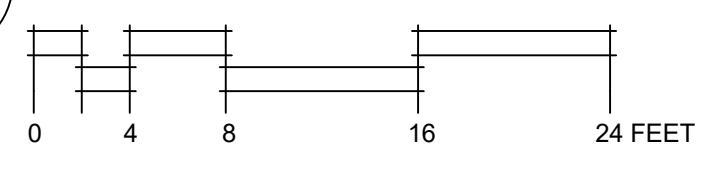
FURNITURE LEGEND

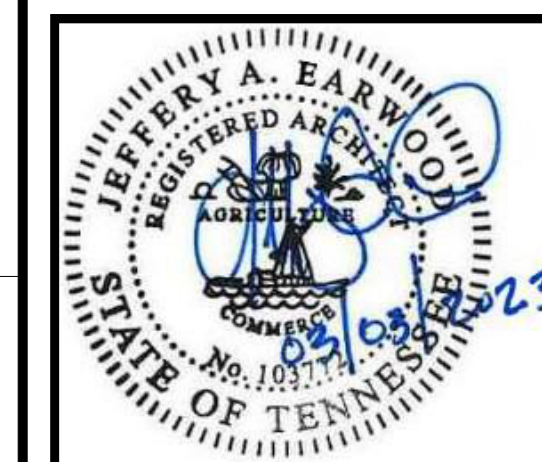
- CH-01 TRAINING RM TASK CHAIR, ARMLESS
- CH-02 TRAINING RM TASK CHAIR W/ARMS
- CH-03 DINING GUEST CHAIR
- CH-04 OUTDOOR DINING CHAIR
- CH-05 OFFICE GUEST CHAIR W/ARMS
- CH-06 HIGHBACK TASK CHAIR
- CH-07 DINING STOOL, COUNTER HEIGHT
- TA-01 FLIP-TOP NESTING TABLE, POWERED, 24DX60W
- TA-02 DINING TABLE, OFOI
- TA-03 END TABLE, 20D
- TA-04 END TABLE, 16D - NOT IN USE
- TA-05 ADJUSTABLE HEIGHT DESK, 30DX80W
- TA-06 TABLE DESK, 24DX36W
- TA-07 OUTDOOR TABLE, 80WX40D
- CG-01 AV CREDENZA
- CG-02 SINGLE PEDESTAL DESK, RIGHT HAND, 30DX66W
- CG-03 SINGLE PEDESTAL RETURN, LEFT HAND, 22DX60W
- CG-04 TWIN PLATFORM BED WITH STORAGE
- BOA-01 MOBILE WHITE BOARD
- WC WALL CLOCK
- CH COAT HOOK
- MB/TB MARKER BOARD, TACK BOARD UNIT

SPECIALTY EQUIPMENT SCHEDULE

TYPE	MANUFACTURER	MODEL	DESCRIPTION	COMMENTS	FURNISHED BY (USER TO TYPE 'X' IN THE APPROPRIATE BOX. THIS CONTROLS THE COLOR ON THE FURNITURE PLAN)			
					OFOI	OFCI	CFOI	CFCI
COF-01			COFFEE MAKER		X			
COMP-01	INGERSOLL RAND	2475N5	AIR COMPRESSOR					X
COP-01			FLOOR COPIER		X			
COP-02			DESKTOP COPIER		X			
DISH-01	FRIGIDAIRE	FFB0242OUS, STAINLESS STEEL	DISHWASHER	24" BUILT-IN DISHWASHER SOURCEWELL				X
DISP-01	HOSHIZAKI	DWM-20A	WATER DISPENSER					X
DRY-01	WHIRLPOOL	WHD862CH, CHROME SHADOW	DRYER		X			
EXT-01	ALLIANCE LAUNDRY SYSTEMS	UWT065D40LX050E000	WASHER-EXTRACTOR	EXISTING EQUIPMENT				
EXT-02	ALLIANCE LAUNDRY SYSTEMS	UTGOEEDG4501W01	TURNOUT GEAR PPE DRYING CABINET	EXISTING EQUIPMENT	X			
ICE-01	HOSHIZAKI	KM-231BAJ	LARGE ICE MAKER WITH STORAGE BIN	SOURCEWELL				X
ICE-02	HOSHIZAKI	DCM-271BAH	COUNTERTOP ICE MAKER	SOURCEWELL				X
MIC-01	LG	LMC1575ST, STAINLESS STEEL	COUNTERTOP MICROWAVE	SOURCEWELL				X
MURPHY	CUMBERLAND MILLWORK	MURPHY VERTICAL WALL BED FOR XL TWIN MATTRESS	MURPHY BED					X
POD-01			PODIUM		X			
RAN-01	VIKING	5 SERIES ELECTRIC RANGE WITH #HS24530SS HIGH SHELF, COLOR: STAINLESS STEEL	ELECTRIC OVEN/STOVE					X
REC-01			DREAM SEAT ROCKER RECLINER	EXISTING	X			
REF-01			REFRIGERATOR	EXISTING REFRIGERATOR	X			
REF-02	SUMMIT	AL55	UNDERCOUNTER REFRIGERATOR					X
REF-03	FRIGIDAIRE	FFHT1425VW, BRUSHED STEEL	MIDSIZE REFRIGERATOR WITH FREEZER					X
SCBA-01	BAUER	VTC-7K/20	COMPRESSOR					X
SCBA-02	BAUER	ASME-7K-3	AIR STORAGE					X
SCBA-03	BAUER	CF55.5-3S	CONTAINMENT FILL STATION					X
TV-01			TELEVISION - 80"			X		
TV-02			TELEVISION - 64"	EXISTING TV	X			
TV-03			TELEVISION - 55"			X		
TV-04			TELEVISION - 40"			X		
WASH-01	WHIRLPOOL	WFW8620H, CHROME SHADOW	WASHER					X

1 LEVEL 1 FURNITURE AND EQUIPMENT PLAN

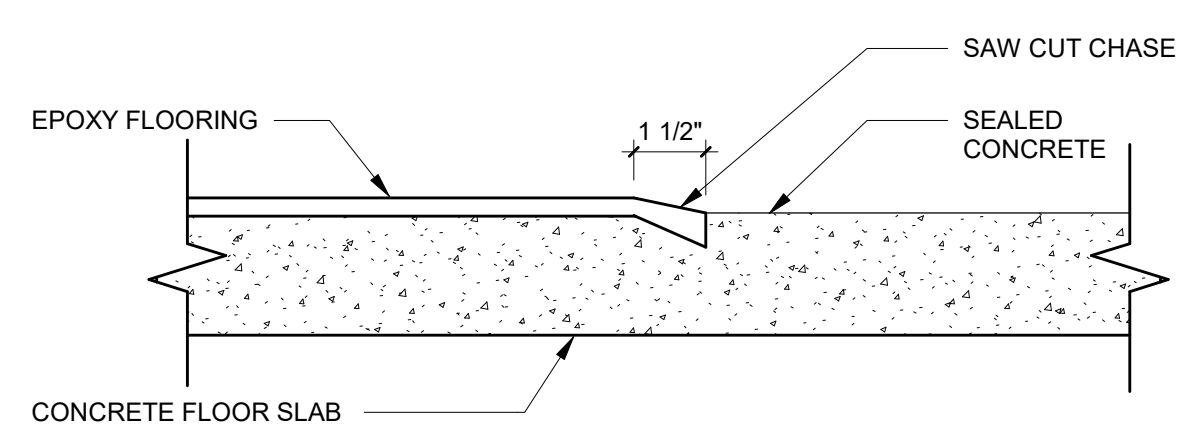




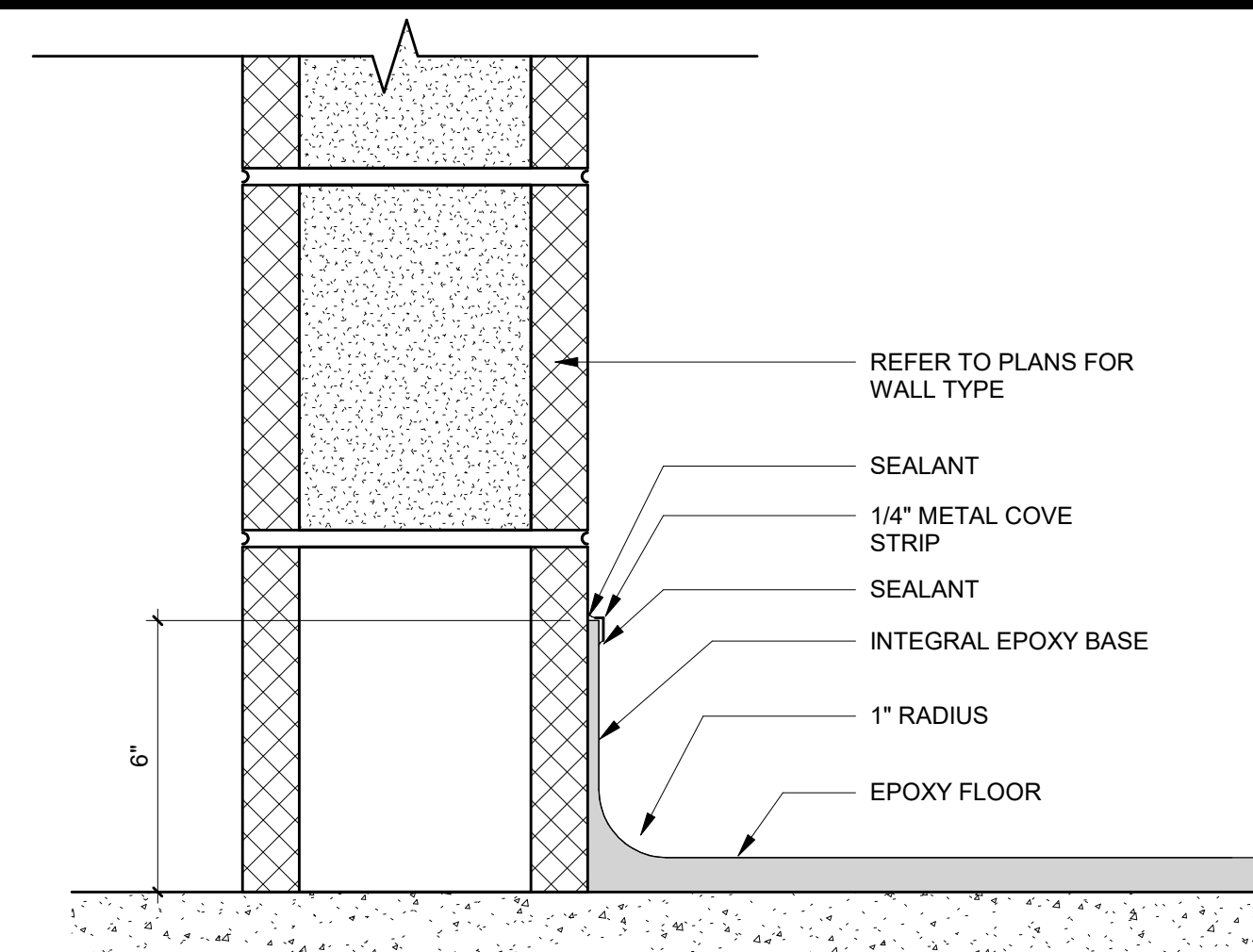
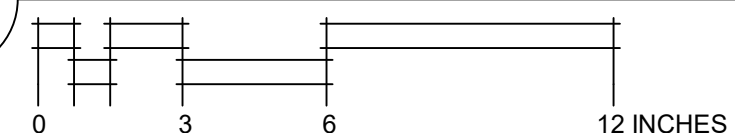
**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

NOTES:

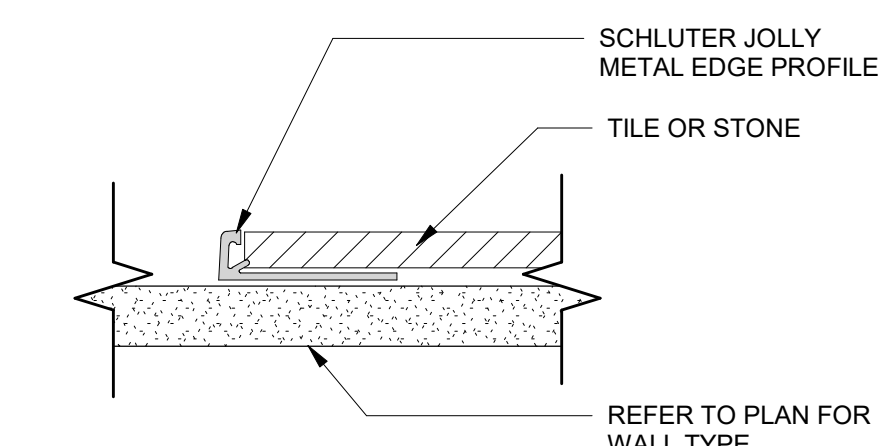
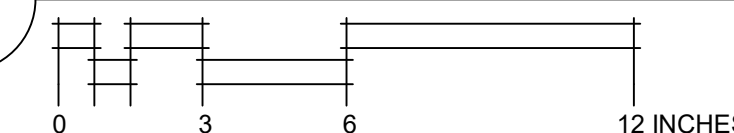
1. CENTER TRANSITION BENEATH DOOR OR ON OPENING WHERE TRANSITION OCCURS AT OPENING.
2. REFER TO FINISH SCHEDULE FOR LOCATIONS.



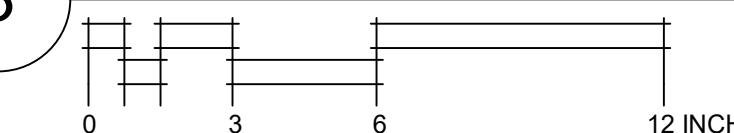
1 EPOXY - SEALED CONCRETE



2 INTEGRAL EPOXY BASE

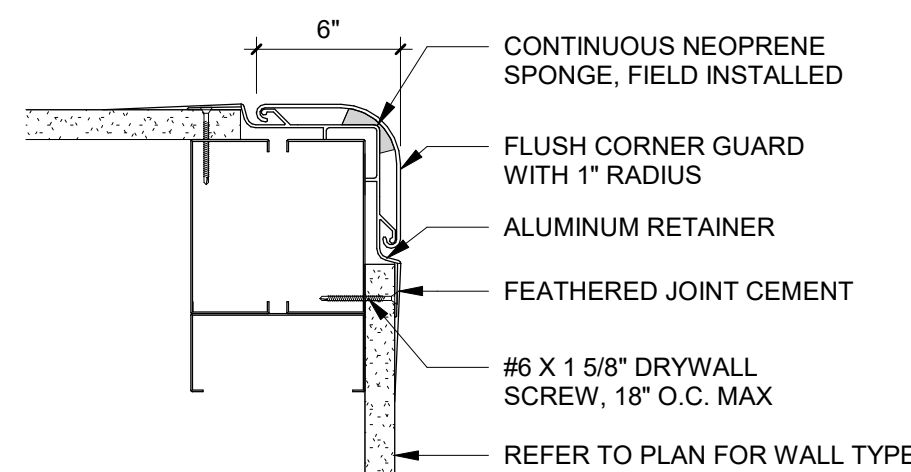


3 SCHLUTER-JOLLY

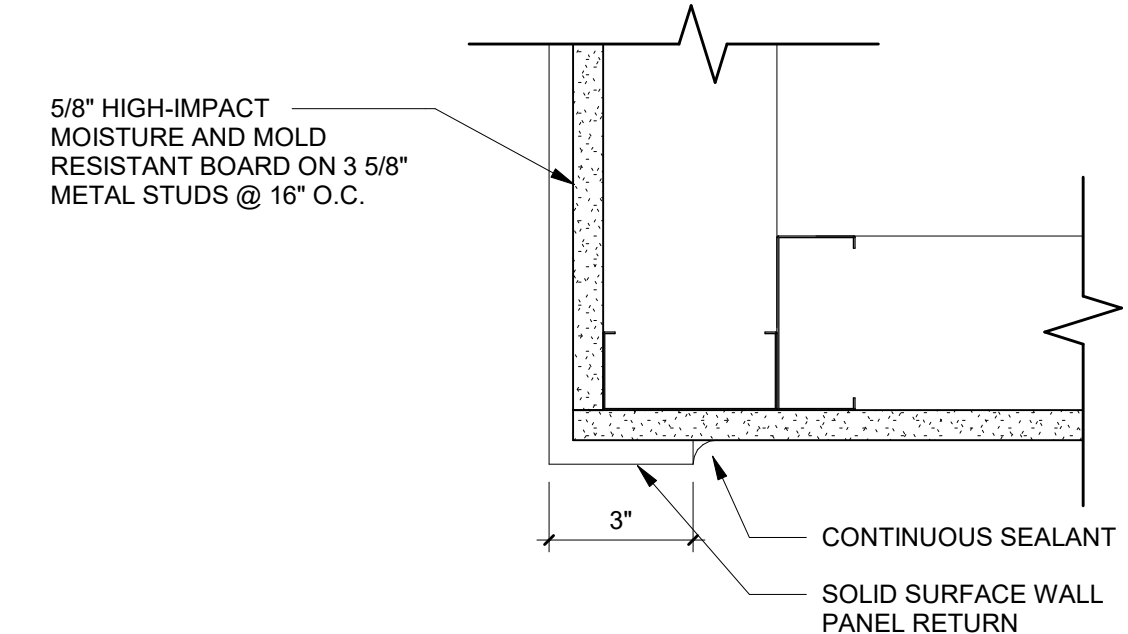
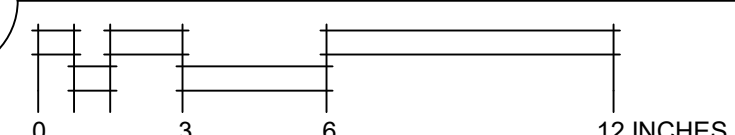


NOTE:

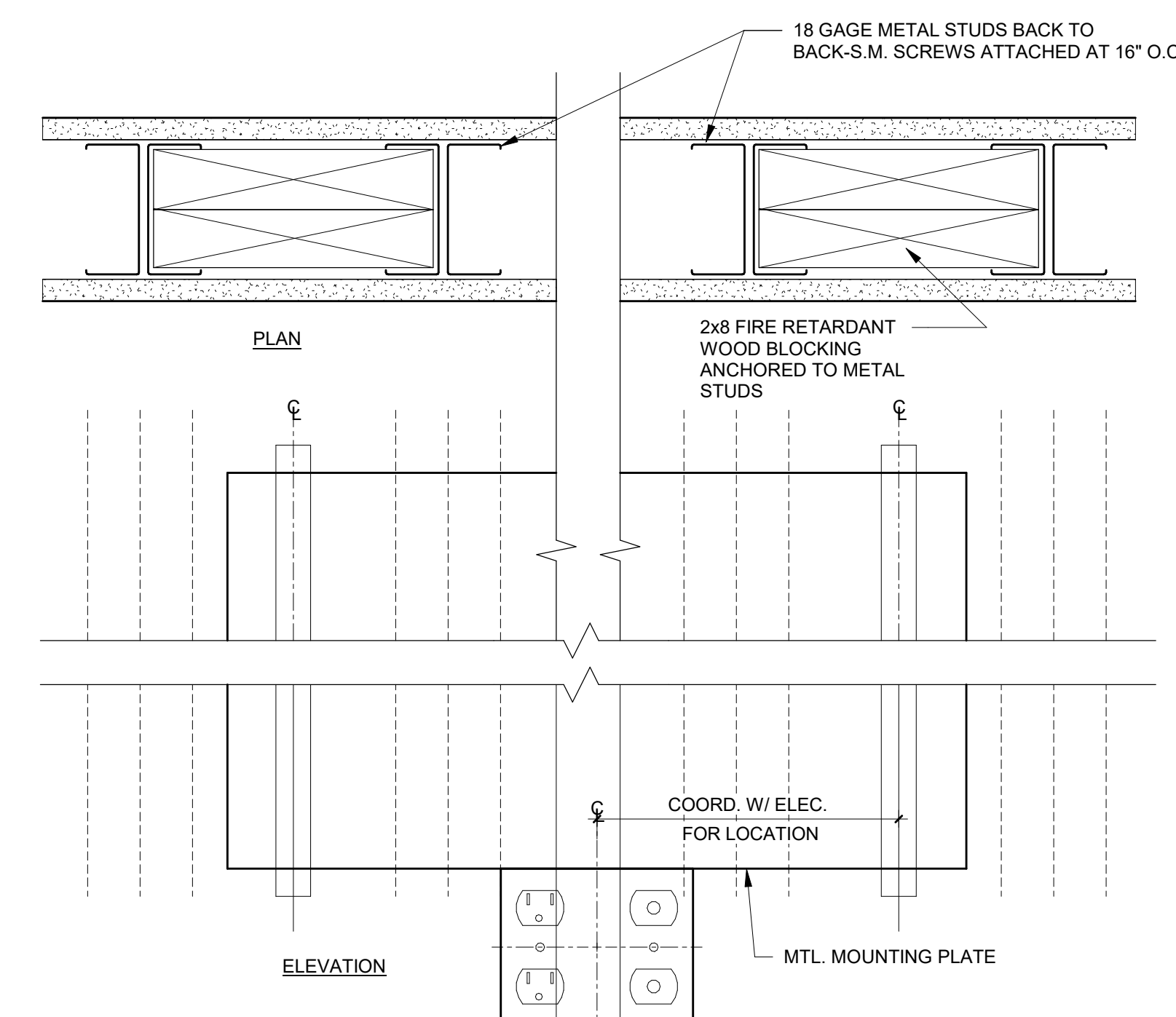
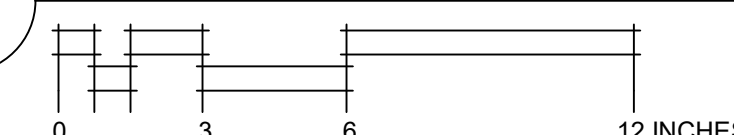
1. REFER TO FINISH PLANS FOR CORNER GUARD LOCATIONS



4 CORNER GUARD-RECESSED-INPRO 130F-3\"/>

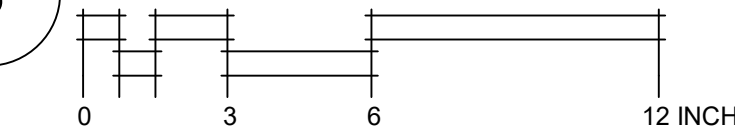


5 SOLID SURFACE PANEL RETURN



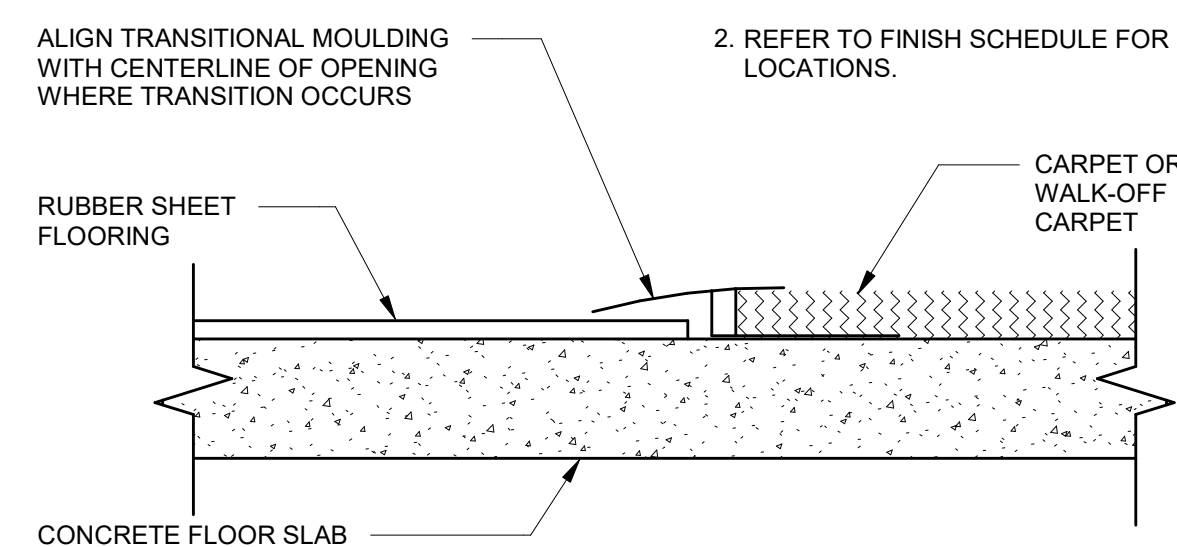
NOTE:
THIS DETAIL IS FURNISHED AS A GUIDE IN INSTALLING OWNER FURNISHED EQUIPMENT. THE CONTRACTOR SHALL ADVISE THE ARCHITECT OF EXACT T.V. SYSTEM REQUIREMENTS AND DIMENSIONS PRIOR TO PROCEEDING WITH ANY RELATED WORK.

8 TV MOUNTING BRACKET DETAIL

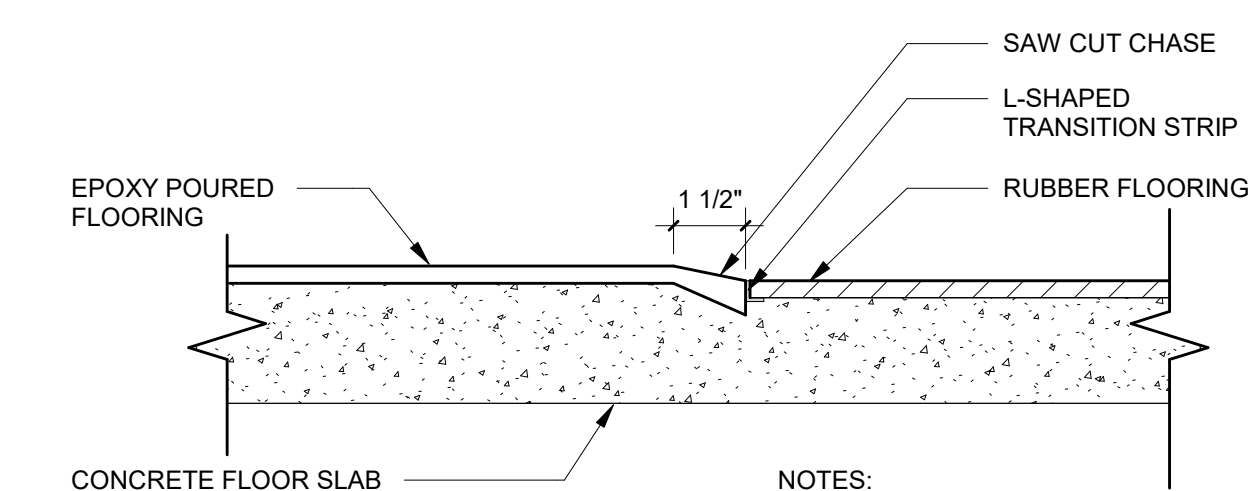
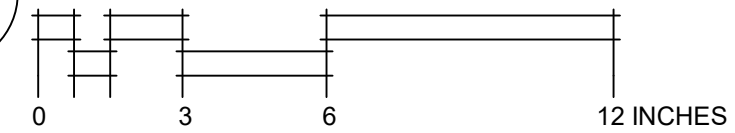


NOTES:

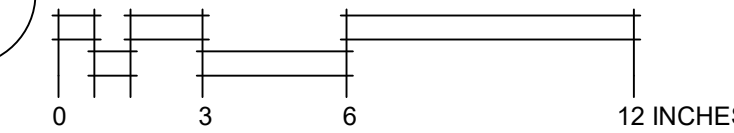
1. CENTER TRANSITION BENEATH DOOR OR ON OPENING WHERE TRANSITION OCCURS AT OPENING.
2. REFER TO FINISH SCHEDULE FOR LOCATIONS.



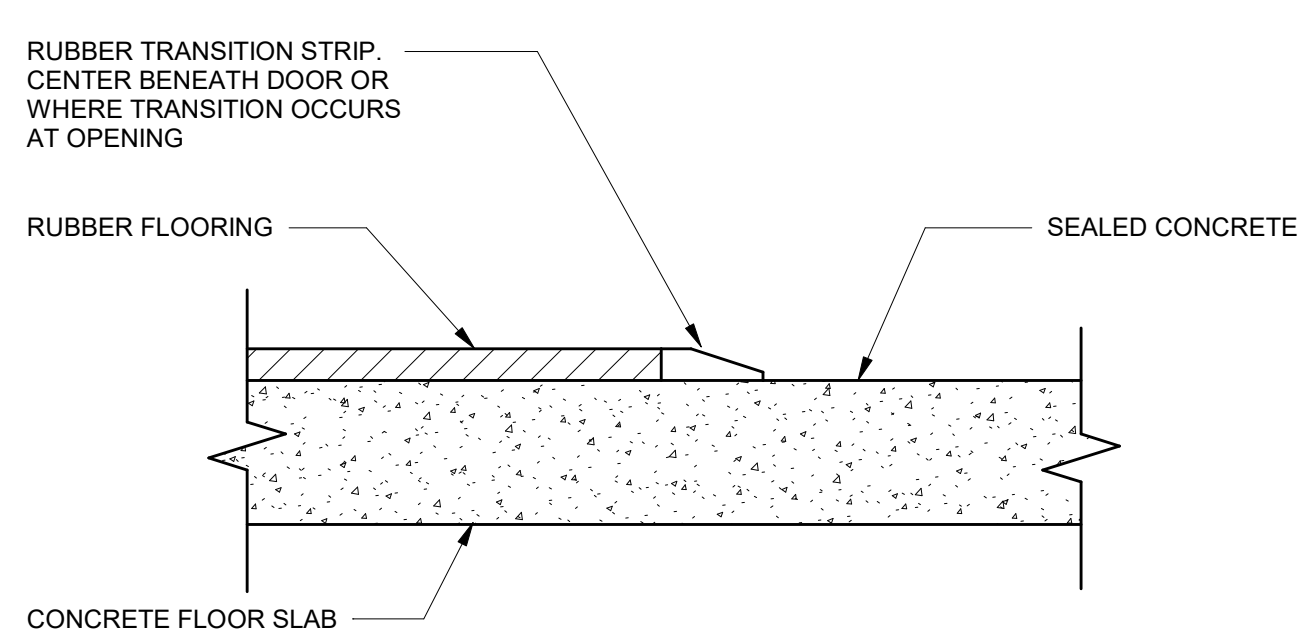
6 RUBBER FLOOR - CARPET



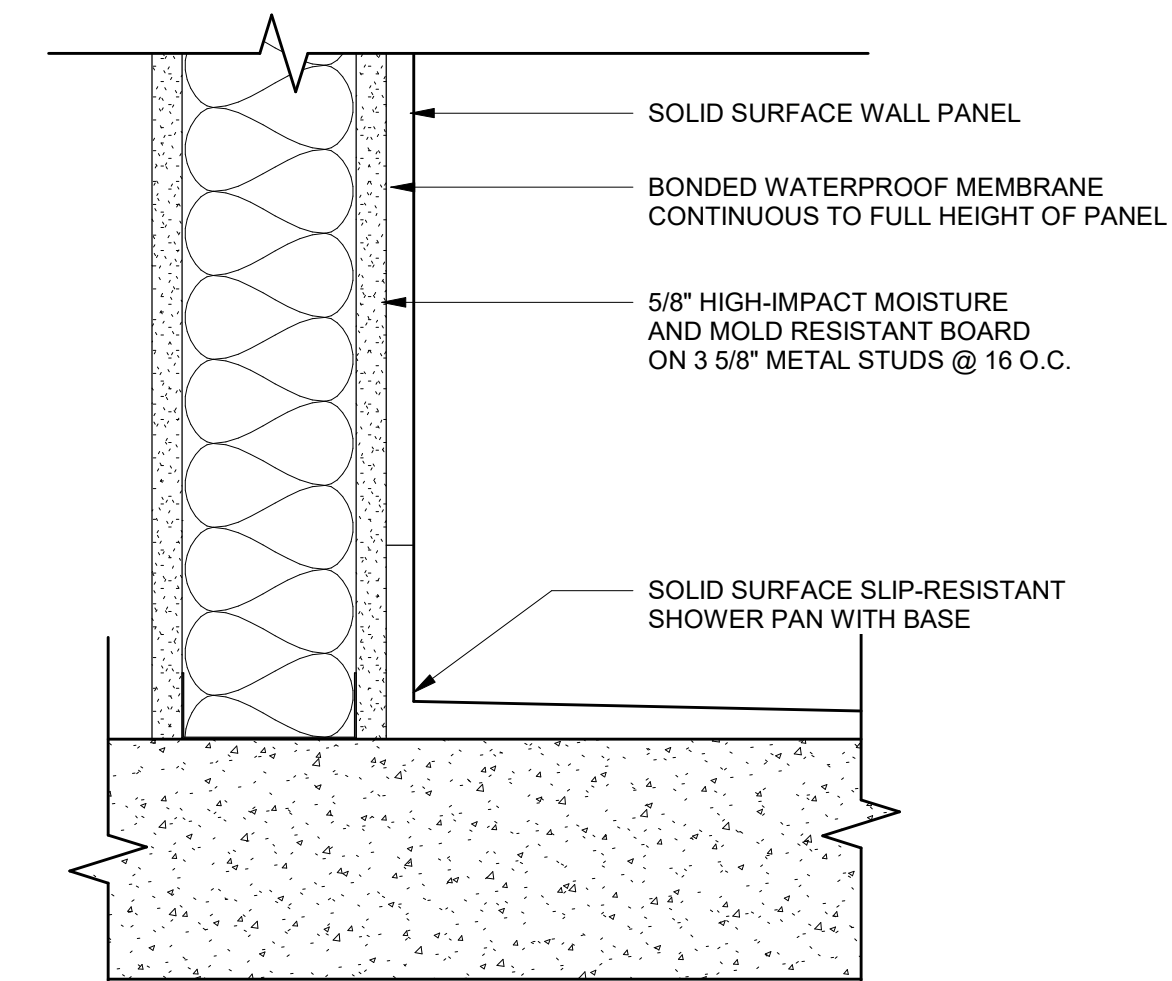
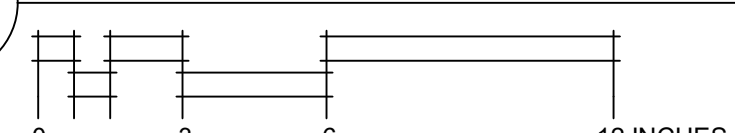
7 EPOXY - RUBBER FLOOR



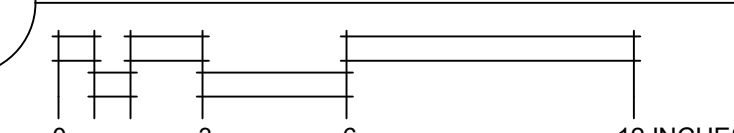
NOTES:
1. CENTER TRANSITION BENEATH DOOR OR ON OPENING WHERE TRANSITION OCCURS AT OPENING.
2. REFER TO FINISH SCHEDULE FOR LOCATIONS.



9 RUBBER FLOOR - SEALED CONCRETE



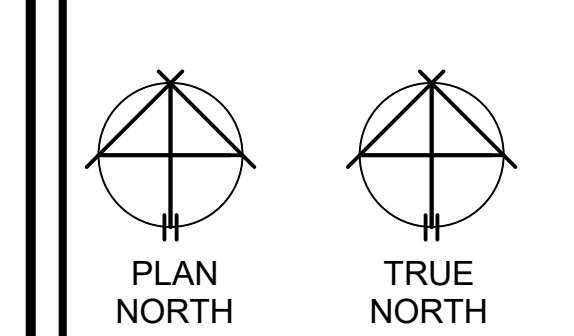
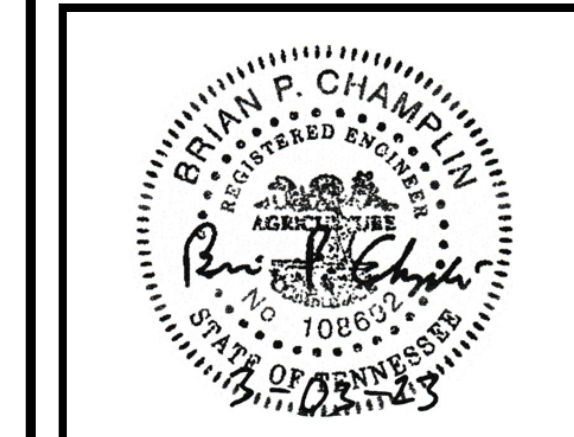
10 SHOWER WALL TO PAN



REVISIONS	

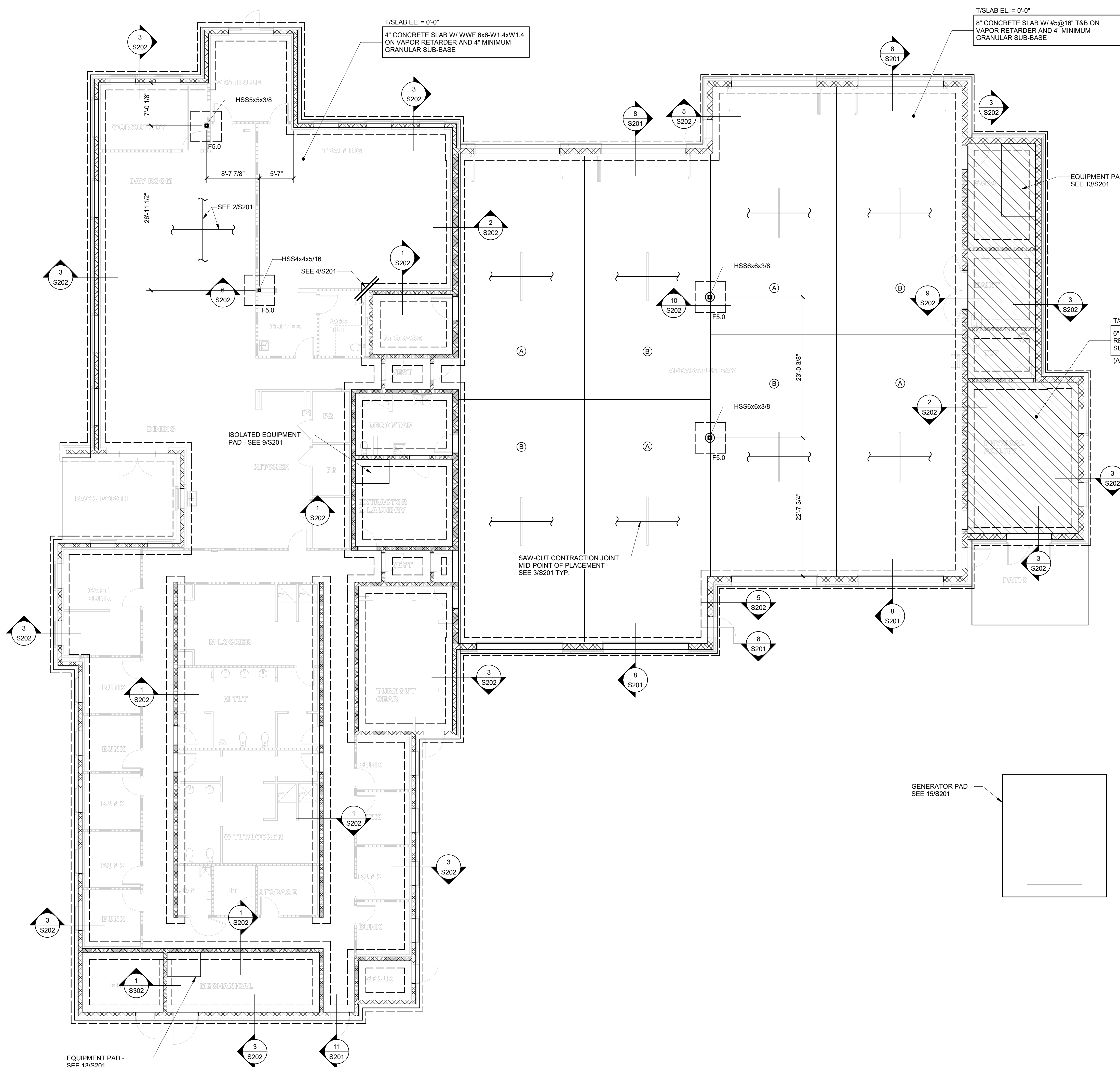
DR. BY	KK
CK. BY	JE, LS
PROJ. NO.	A01122
DATE	03/03/23

INTERIOR DETAILS



REVISIONS	
NO.	DESCRIPTION

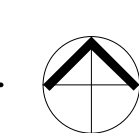
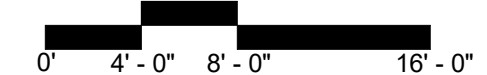
DR. BY JR
CK. BY BC
PROJ. NO. A01122
DATE 03/03/23
FOUNDATION PLAN

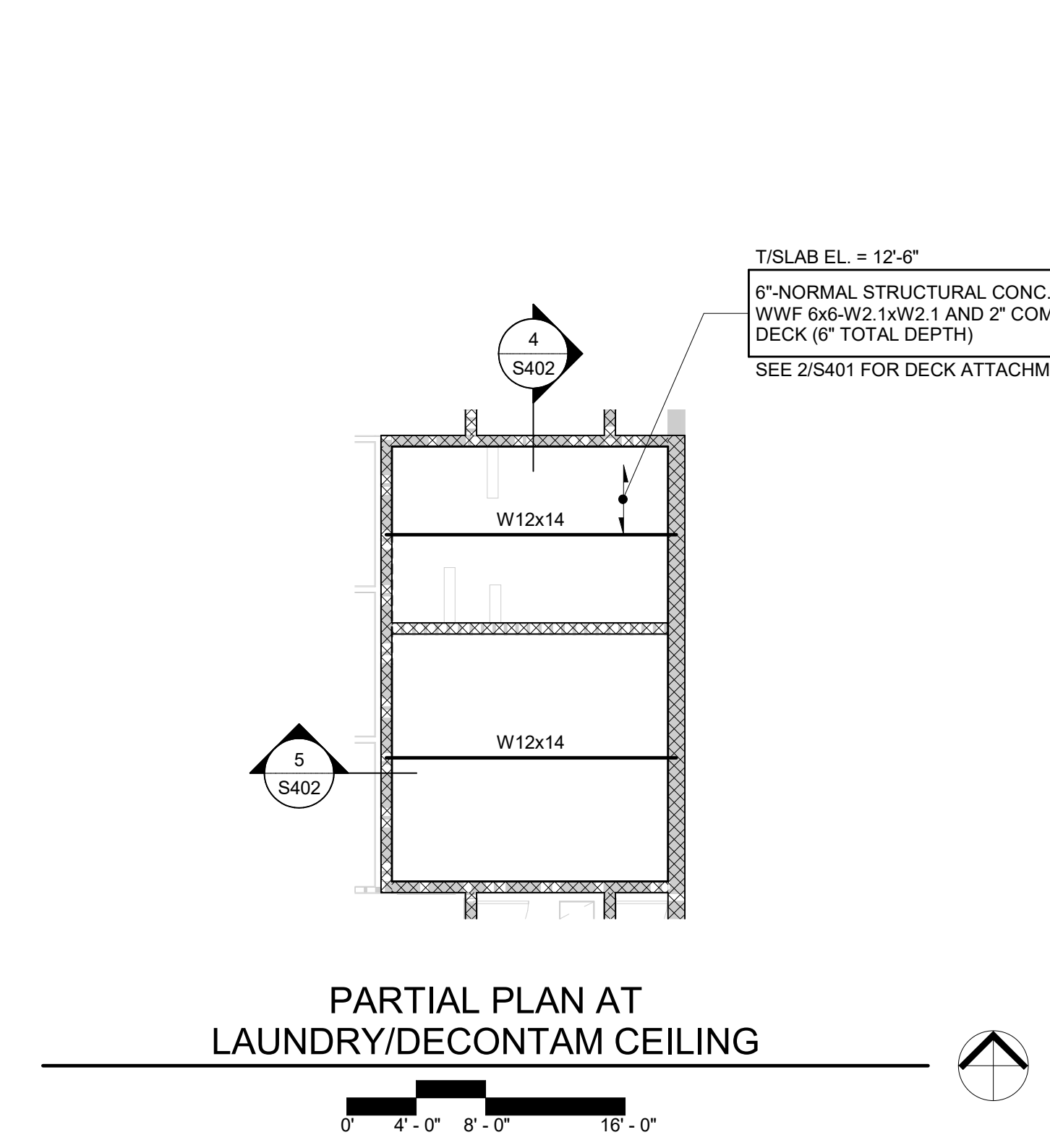
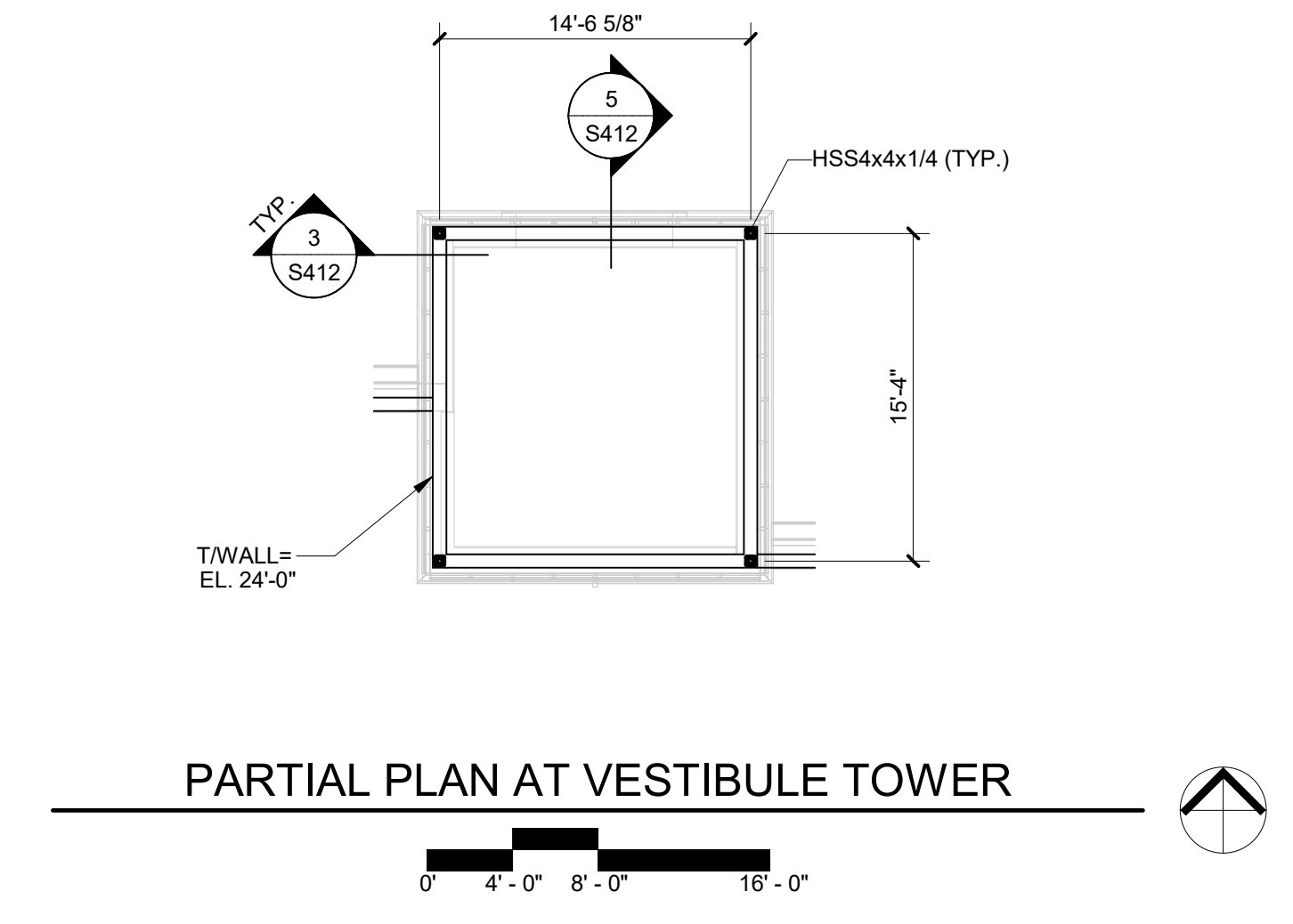
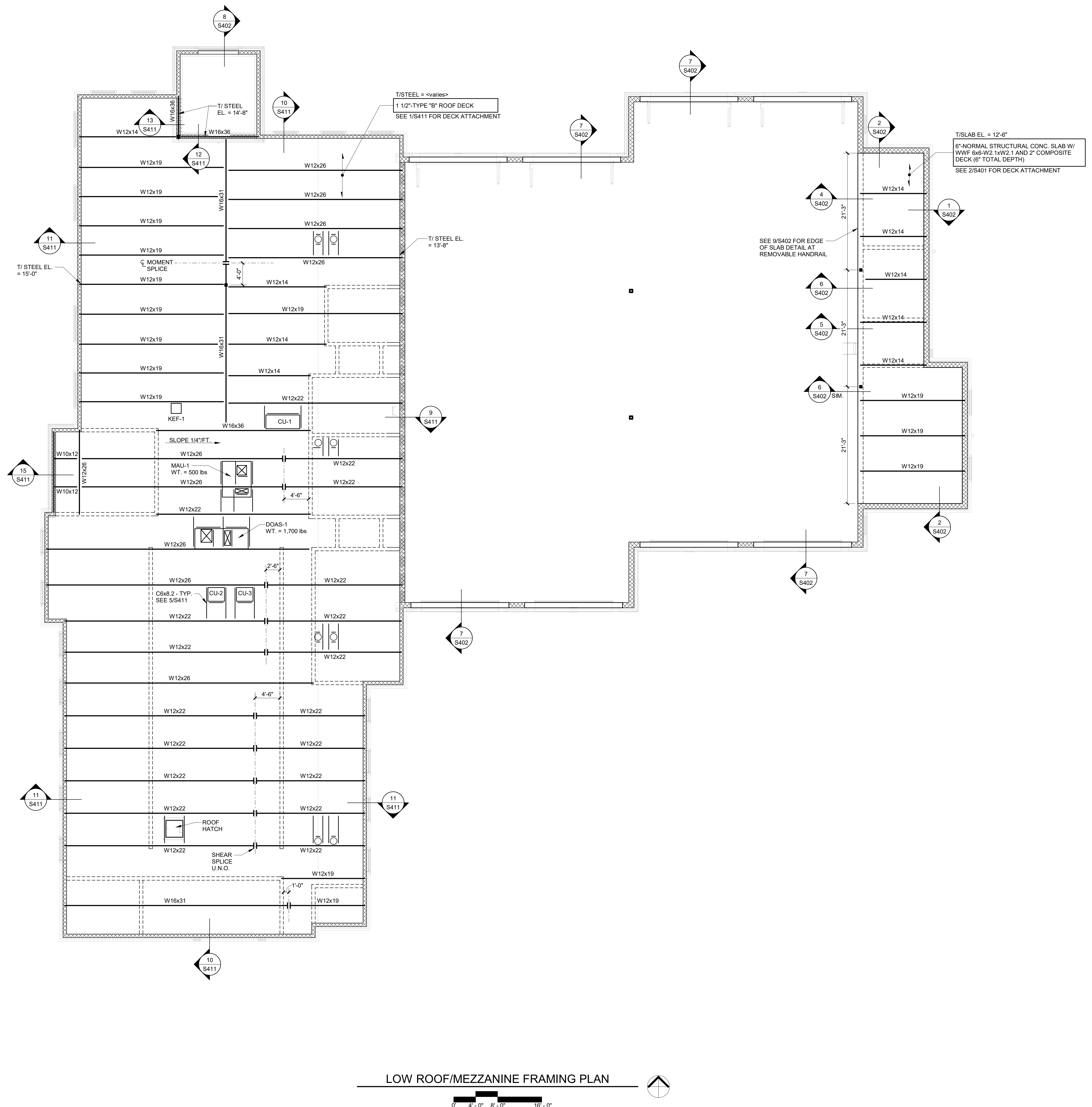


- NOTES:**
- REFERENCE ELEVATION X = Y (REFER TO CIVIL DRAWINGS).
 - TOP OF FOOTING ELEVATIONS SHALL BE AS FOLLOWS:
INTERIOR FOUNDATIONS: 1'-4" BELOW TOP OF SLAB-ON-GRADE
EXTERIOR FOUNDATIONS: 2'-0" BELOW FINISHED GRADE
UNLESS NOTED OTHERWISE ON PLAN.
 - FOUNDATION ELEMENTS ARE CENTERED UNDER COLUMNS, UNLESS NOTED OTHERWISE.
 - REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
 - COORDINATE ALL SLAB DEPRESSIONS WITH MEP AND ARCHITECTURAL DRAWINGS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLAB SLOPE. SLAB THICKNESS SHOWN IS MINIMUM AT SLAB LOW POINTS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENTS OF NON-LOAD BEARING CMU WALLS.
 - CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS RELATED TO THE NEW STRUCTURE PRIOR TO FABRICATION AND CONSTRUCTION.
- SHEET AND TYPICAL DETAIL REFERENCES:
S0 SERIES STRUCTURAL NOTES
1/S201 FOOTING SCHEDULE
10/S201 FOOTING STEP
S201 SLAB ON GRADE
S301 LOAD BEARING CMU WALLS
S301 NON-LOAD BEARING CMU WALLS (INCLUDING THICKENED SLAB REQUIREMENTS)
- 13/S201 TOPPING SLABS & HOUSEKEEPING PADS
9. MARK AND LEGEND KEY:
F.# FOOTING
STEP
FTG. FOOTING STEP
TOPPING SLAB OR HOUSEKEEPING PAD
LOAD BEARING CMU WALLS
NON-LOAD BEARING CMU WALLS
REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR CMU WALLS TO BE GROUTED SOLID FOR SOUND RATING.

- APPARATUS BAY SLAB-ON-GRADE NOTES:**
- SUB GRADE MUST BE EVALUATED BY GEOTECHNICAL ENGINEER PRIOR TO SLAB WORK. GEOTECHNICAL ENGINEER MUST SUBMIT STATEMENT OF ACCEPTANCE.
 - VAPOR RETARDER MUST HAVE PERMEANCE OF LESS THAN 0.01 PERMS PER ASTM F1249 OR ASTM E96. ASTM E1745 CLASS A (15-MIL STEGO WRAP SYSTEM OR EQUAL).
 - FINISHERS SHALL HAVE A PROVEN RECORD OF PLACING SUCCESSFUL INDUSTRIAL QUALITY SLAB-ON-GRADES. SLAB SHALL NOT BE POURED UNTIL ROOF IS IN PLACE IN THIS AREA. SUN, WIND AND RAIN SHALL BE CONTROLLED DURING PLACEMENT AND CURING OF THE SLAB. THE SLAB SHALL BE CONTINUOUSLY WET CURED FOR A MINIMUM OF 28 DAYS. THE SLAB SHALL BE PROTECTED DURING CONSTRUCTION AGAINST ABRASION, IMPACT AND WEAR PRIOR TO BEING TURNED OVER TO THE OWNER.
 - (A) & (E) INDICATES POUR SEQUENCE. A MINIMUM OF 48 HOURS MUST PASS BETWEEN POURS.

FOUNDATION PLAN





NOTES:

1. ALL BEAMS SHALL BE SPACED EQUALLY IN COLUMN BAYS, UNLESS NOTED OTHERWISE.
2. EDGE OF SLAB IS LOCATED 6\"/>

10. SHEET AND TYPICAL DETAIL REFERENCES:

S0 SERIES	STRUCTURAL NOTES
S401	COMPOSITE SLAB SECTIONS & DETAILS
S401	TYPICAL FRAMING DETAILS
X/SX/XX	SHOWER DEPRESSIONS
S301	CMU WALL DETAILS
S301	NON-LOAD BEARING CMU WALL DETAILS (INCLUDING THICKENED SLAB REQUIREMENTS)
S301	LOOSE LINTEL SCHEDULE
S401	FLOOR OPENINGS
S411	ROOF OPENINGS
13/S201	TOPPING SLAB & HOUSEKEEPING PADS

11. MARK AND LEGEND KEY:

(Symbol)	WELD THROUGH MOMENT CONNECTION
(Symbol)	LOAD BEARING CMU WALL
(Symbol)	NON-LOAD BEARING CMU WALL
(Symbol)	TOPPING SLAB OR HOUSEKEEPING PAD

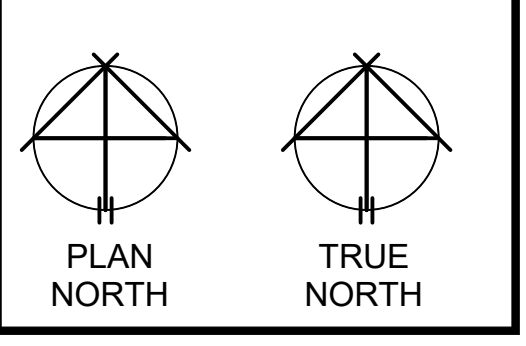
12. ULTIMATE (LRFD) REACTIONS FOR BEAMS SUPPORTING NON-COMPOSITE DECK SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

W8	12 KIPS
W10	12 KIPS
W12	12 KIPS
W14	30 KIPS
W16	30 KIPS
W18	30 KIPS
W21	48 KIPS
W24	48 KIPS
W27	66 KIPS
W30	66 KIPS



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 750 Old Hickory Blvd.
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 615 320 1735
 Project No. 22027.00
 COA No. 1329

**TOWN OF NOLENSVILLE
 FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE**



REVISIONS

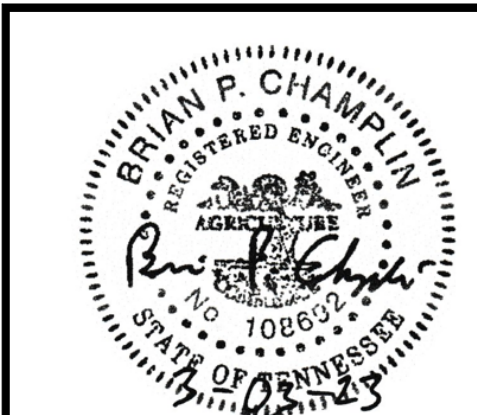
NO.	DESCRIPTION	DATE

DR. BY JR
CK. BY BC
PROJ. NO. A01122
DATE 03/03/23

LOW ROOF/MEZZANINE FRAMING PLAN

S111

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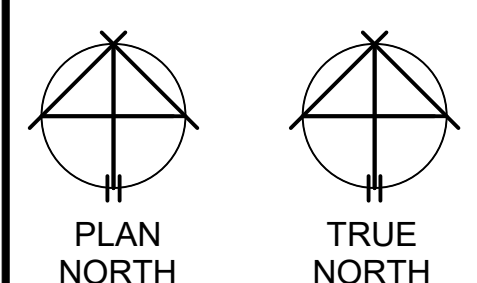
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COA No. 1329

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FIRE STATION #1
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NOLENSVILLE, TENNESSEE**



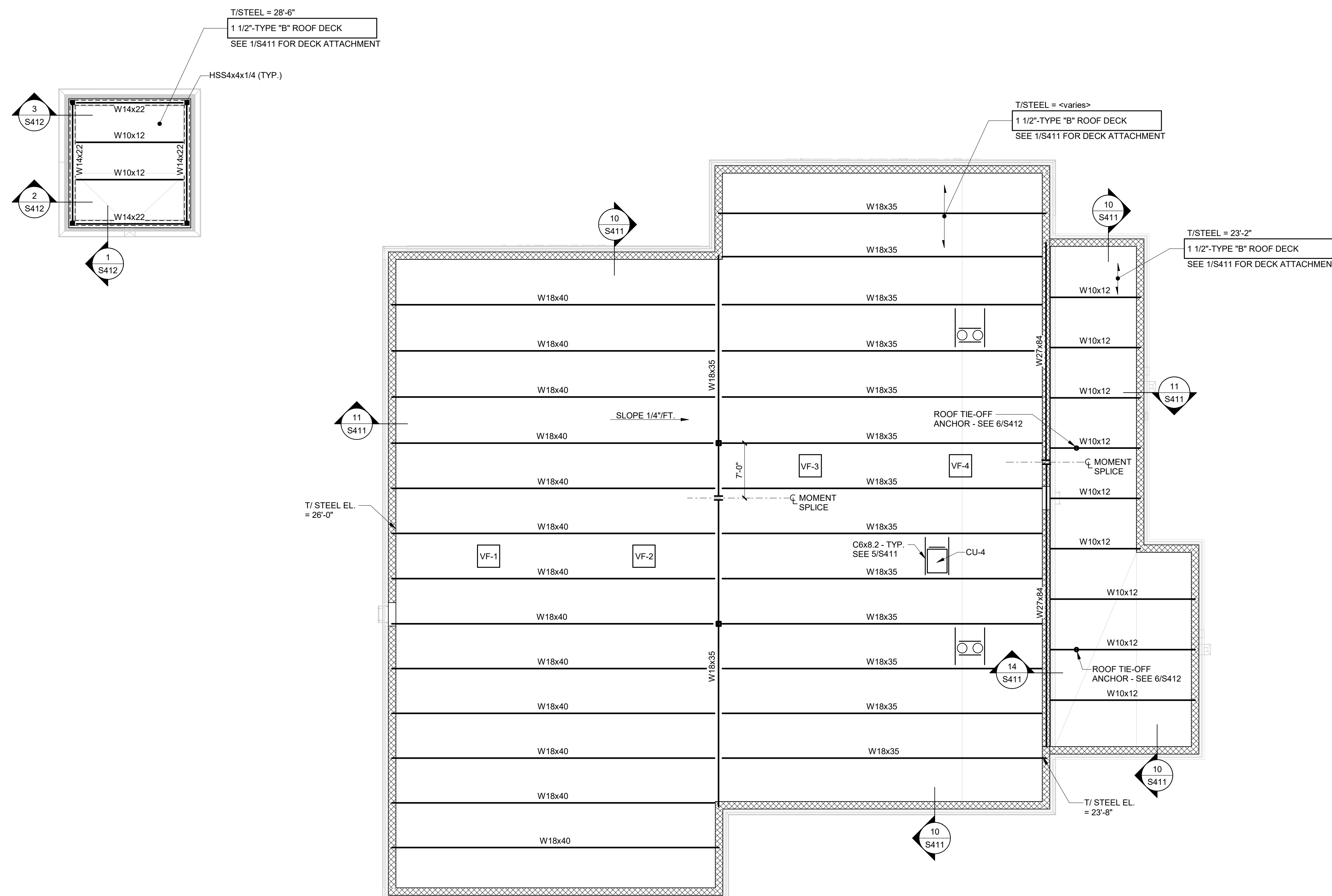
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NO.	DESCRIPTION	DATE

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PROJ. NO. A01122
DATE 03/03/23

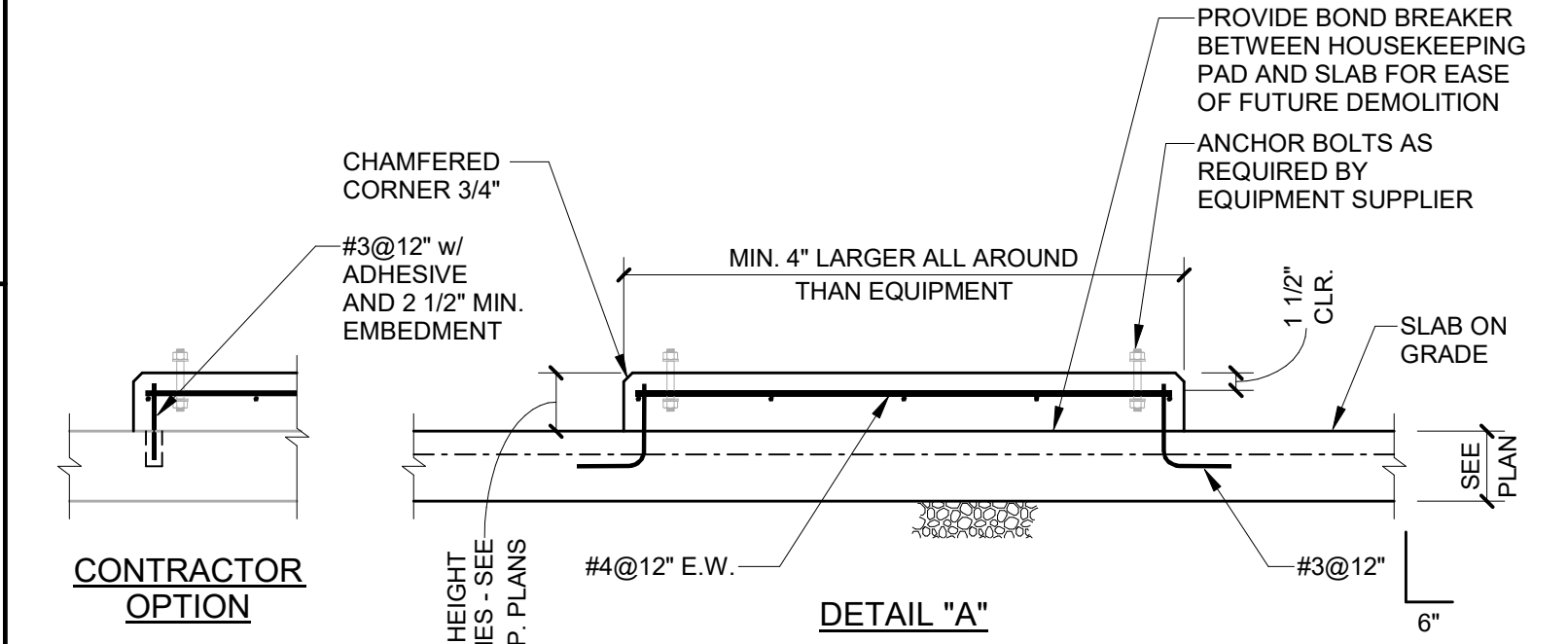
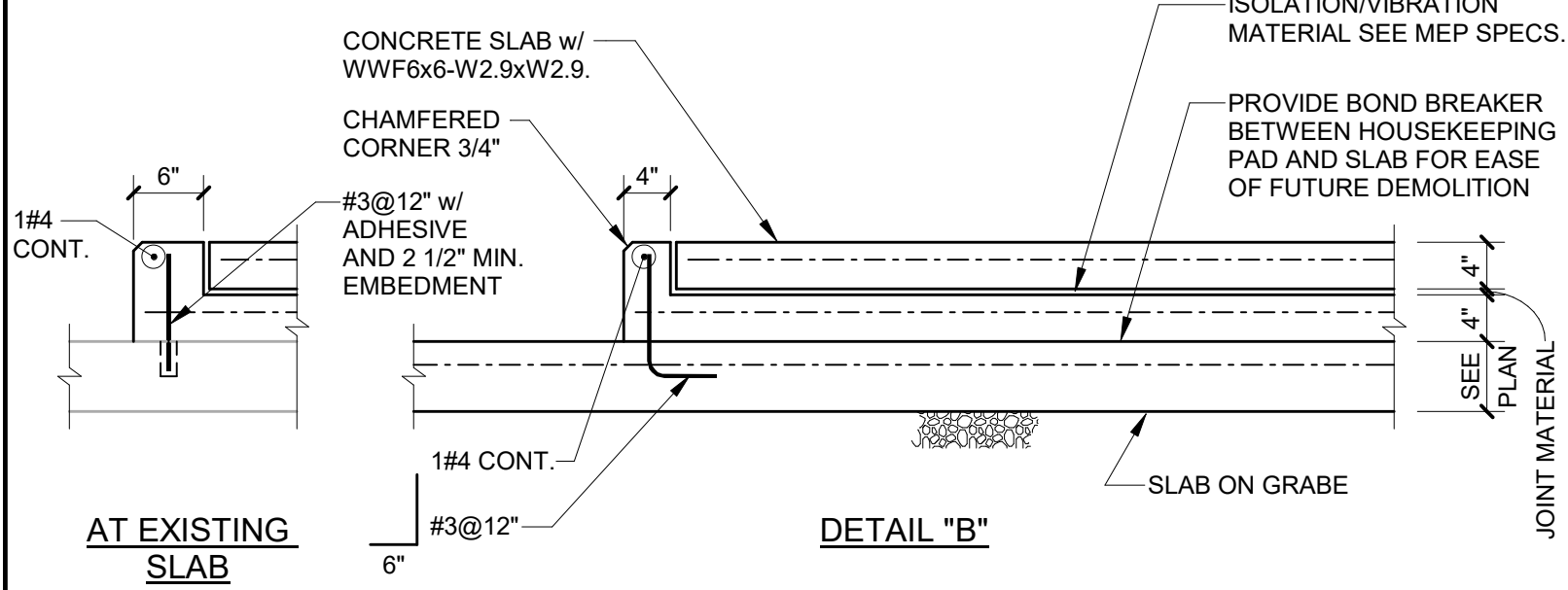
HIGH ROOF FRAMING PLAN

S121



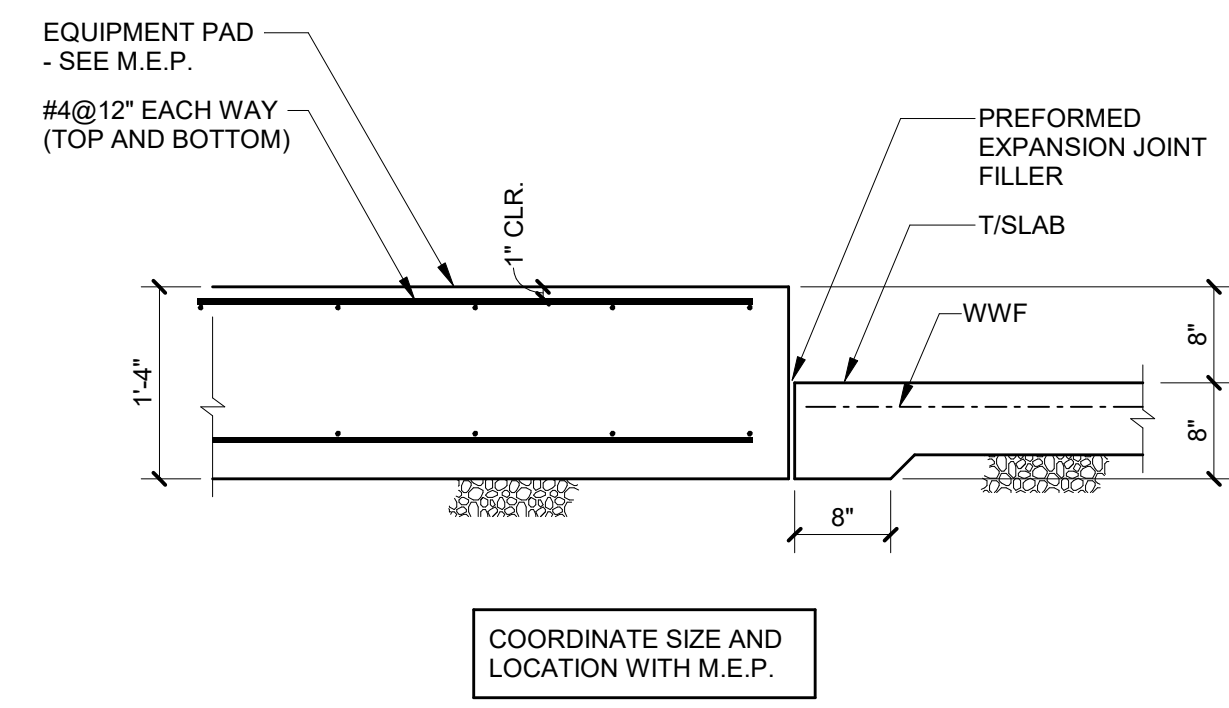
- NOTES:**
- ALL BEAMS SHALL BE SPACED EQUALLY IN COLUMN BAYS, UNLESS NOTED OTHERWISE.
 - EDGE OF SLAB IS LOCATED 6" OFF OF BEAM CENTERLINES AT INTERIOR OPENINGS, UNLESS NOTED OTHERWISE.
 - REFER TO FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
 - COORDINATE ALL SLAB OPENINGS AND DEPRESSIONS WITH MEP AND ARCHITECTURAL DRAWINGS.
 - SEE ARCHITECTURAL DRAWINGS FOR EDGE OF SLAB DIMENSIONS NOT SHOWN, SLAB DEPRESSION DEPTHS AND LOCATIONS NOT SHOWN, SLAB SLOPES NOT SHOWN, CONCRETE CURB HEIGHTS AND LOCATIONS NOT SHOWN, AND SLAB AND WALL OPENING SIZES AND LOCATIONS NOT SHOWN.
 - REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENTS OF NON-LOAD BEARING CMU WALLS.
 - WEIGHTS SHOWN FOR MECHANICAL EQUIPMENT ARE MAXIMUMS. NOTIFY STRUCTURAL ENGINEER IF ACTUAL WEIGHTS EXCEED VALUES GIVEN.
 - COORDINATE THE LOCATION OF FRAMING SUPPORTING MECHANICAL EQUIPMENT WITH THE EQUIPMENT SUPPLIER. NOTIFY STRUCTURAL ENGINEER IF EQUIPMENT SUPPORT REQUIREMENTS DIFFER FROM WHAT IS SHOWN IN THE STRUCTURAL DOCUMENTS.
 - CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS RELATED TO THE NEW STRUCTURE PRIOR TO FABRICATION AND CONSTRUCTION.
 - SHEET AND TYPICAL DETAIL REFERENCES:
S0 SERIES STRUCTURAL NOTES
S401 COMPOSITE SLAB SECTIONS & DETAILS
S401 TYPICAL FRAMING DETAILS
X/SX/XX SHOWER DEPRESSIONS
S301 CMU WALL DETAILS
S301 NON-LOAD BEARING CMU WALL DETAILS (INCLUDING THICKENED SLAB REQUIREMENTS)
S301 LOOSE LINTEL SCHEDULE
S401 FLOOR OPENINGS
S411 ROOF OPENINGS
13/S301 TOPPING SLAB & HOUSEKEEPING PADS
 - MARK AND LEGEND KEY:
WELD THROUGH MOMENT CONNECTION
LOAD BEARING CMU WALL
NON-LOAD BEARING CMU WALL
TOPPING SLAB OR HOUSEKEEPING PAD
 - ULTIMATE (LRFD) REACTIONS FOR BEAMS SUPPORTING NON-COMPOSITE DECK SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
W8 12 KIPS
W10 12 KIPS
W12 12 KIPS
W14 30 KIPS
W16 30 KIPS
W18 30 KIPS
W21 48 KIPS
W24 48 KIPS
W27 66 KIPS
W30 66 KIPS

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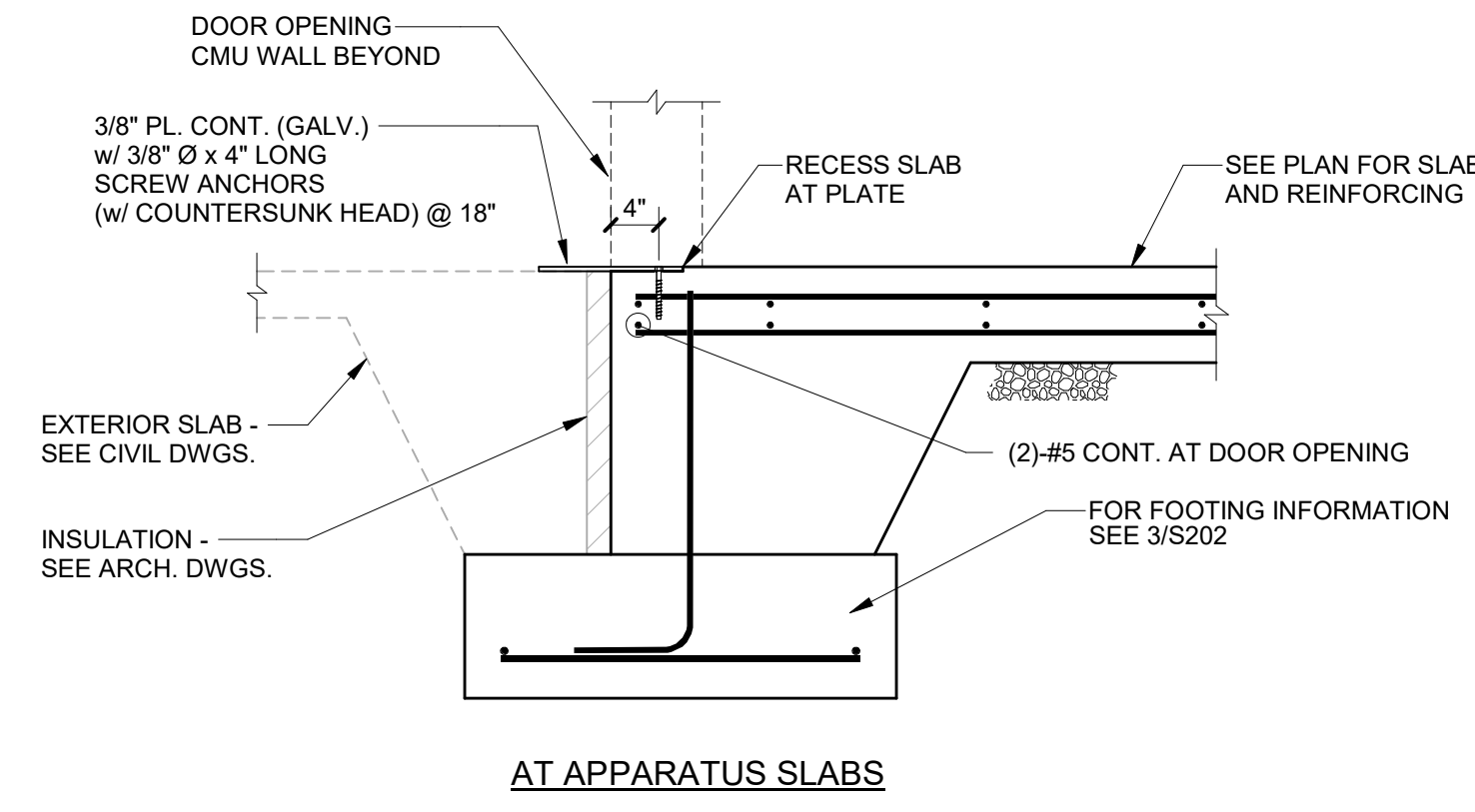


- NOTES:**
1. THE CONTRACTOR SHALL PROVIDE CONCRETE PADS ADEQUATE FOR THE SUPPORT OF THE M.E.P. EQUIPMENT. THE HEIGHT "H" OF MECHANICAL EQUIPMENT PADS SHALL BE COORDINATED WITH THE ARCHITECTURAL AND M.E.P. DRAWINGS. EXACT SIZES, LOCATIONS, HEIGHT, AND ANY SPECIAL DETAILS FOR THE PADS SHALL BE OBTAINED FROM THE VENDORS BEFORE INSTALLATION OF THE PADS.
 2. ALL EMBEDDED ITEMS SHALL BE COORDINATED WITH THE EQUIPMENT SUPPLIER.
 3. USE DETAIL "B" ONLY UNDER EQUIPMENT SUPPORTED ON FLOATING SLABS.

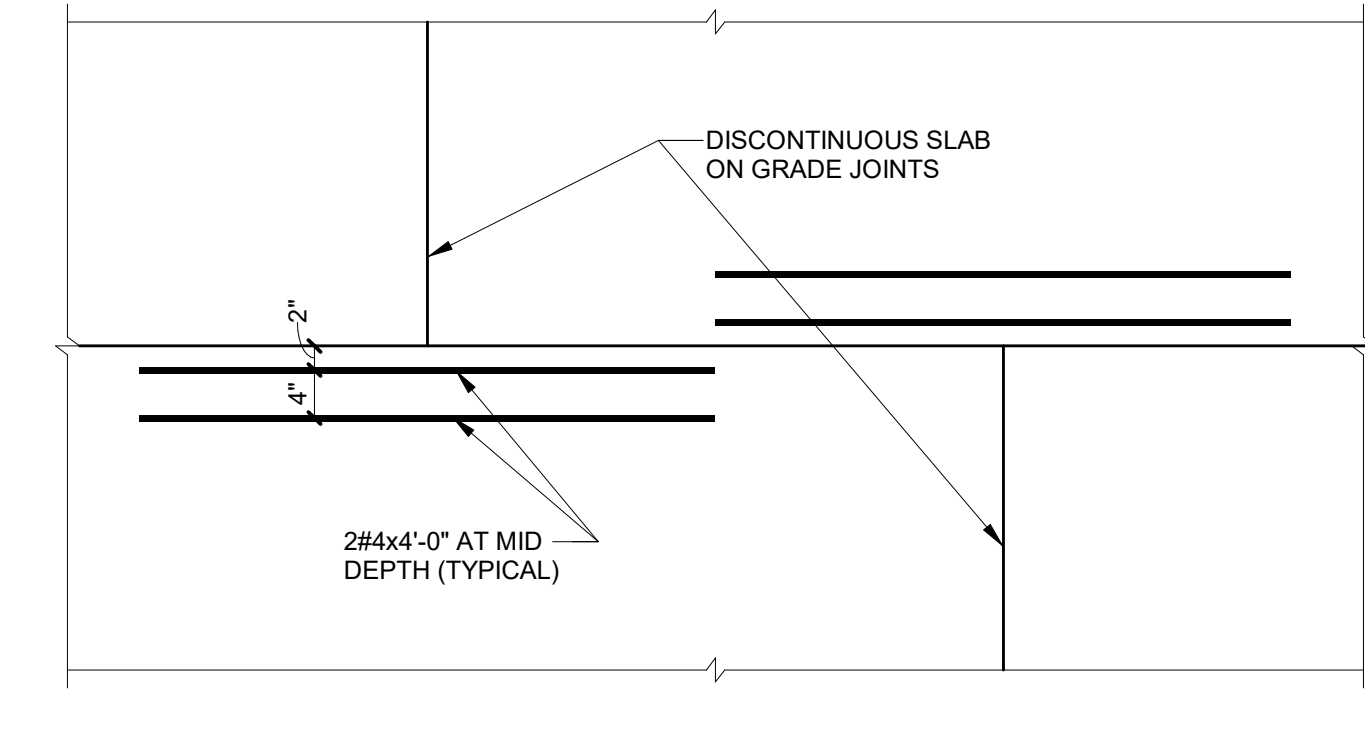
13 EQUIPMENT PAD AND CURB DETAILS



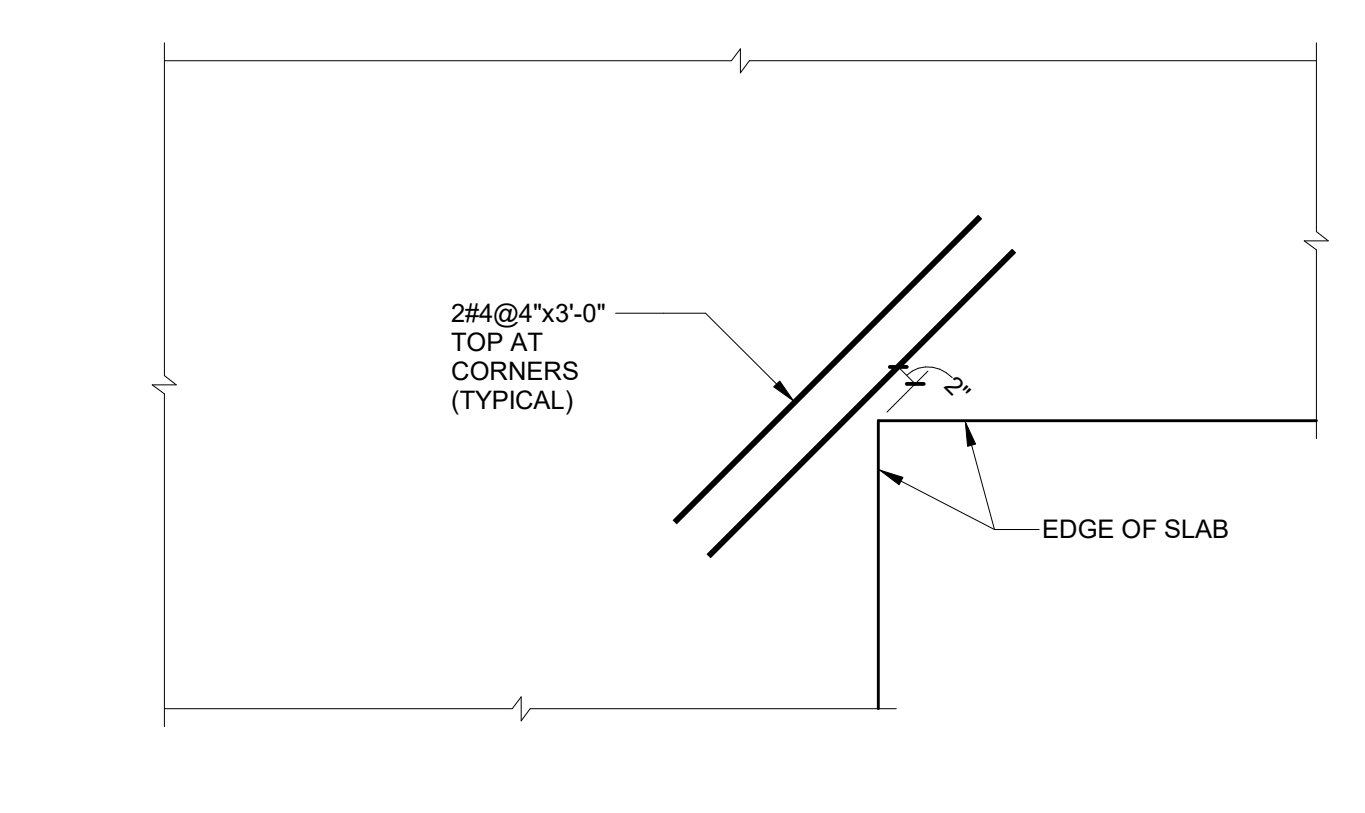
9 TYPICAL EQUIPMENT PAD ON GRADE SECTION



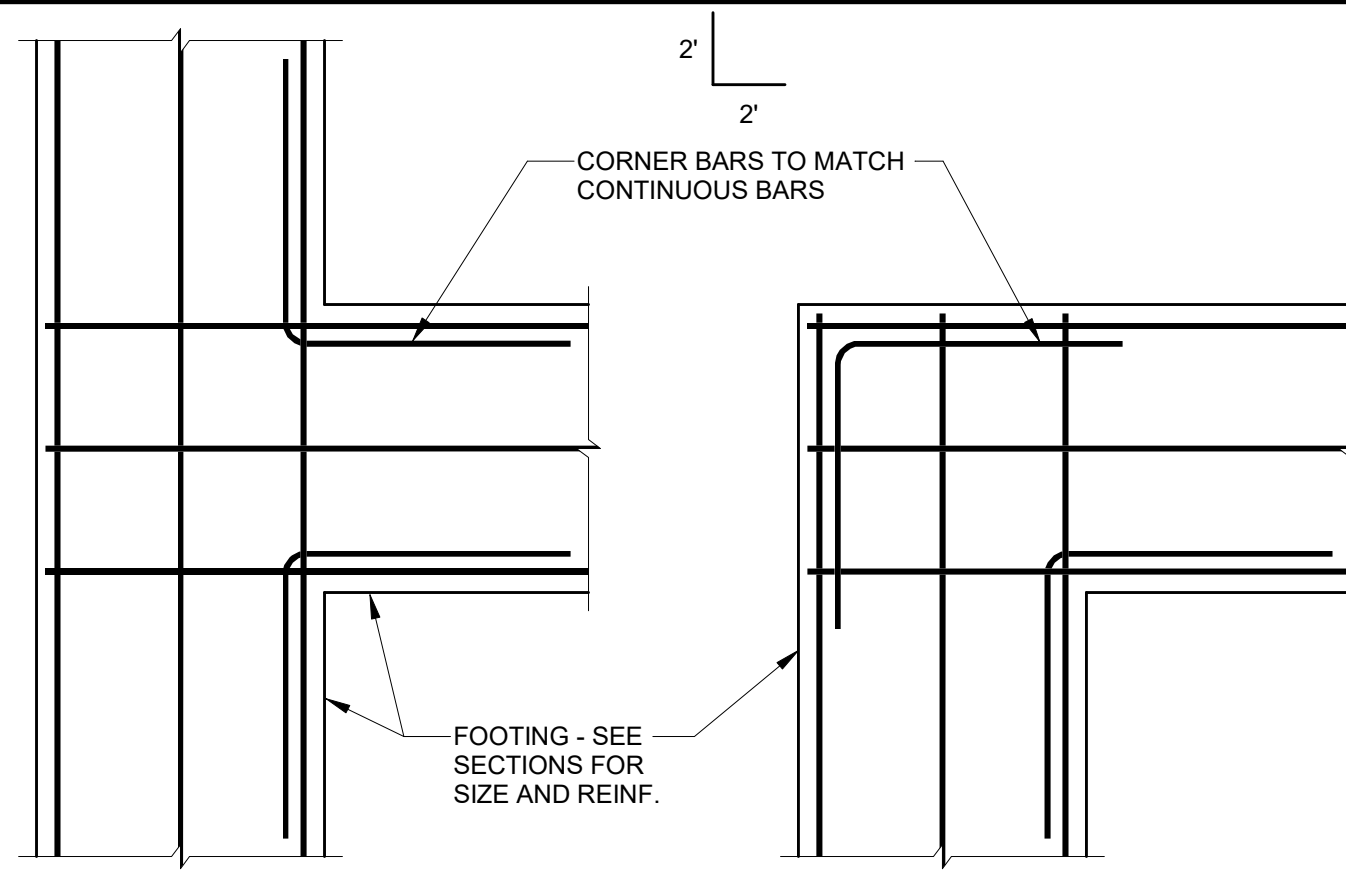
8 SECTION AT EDGE OF SLAB AT CMU WALLS AT DOORS



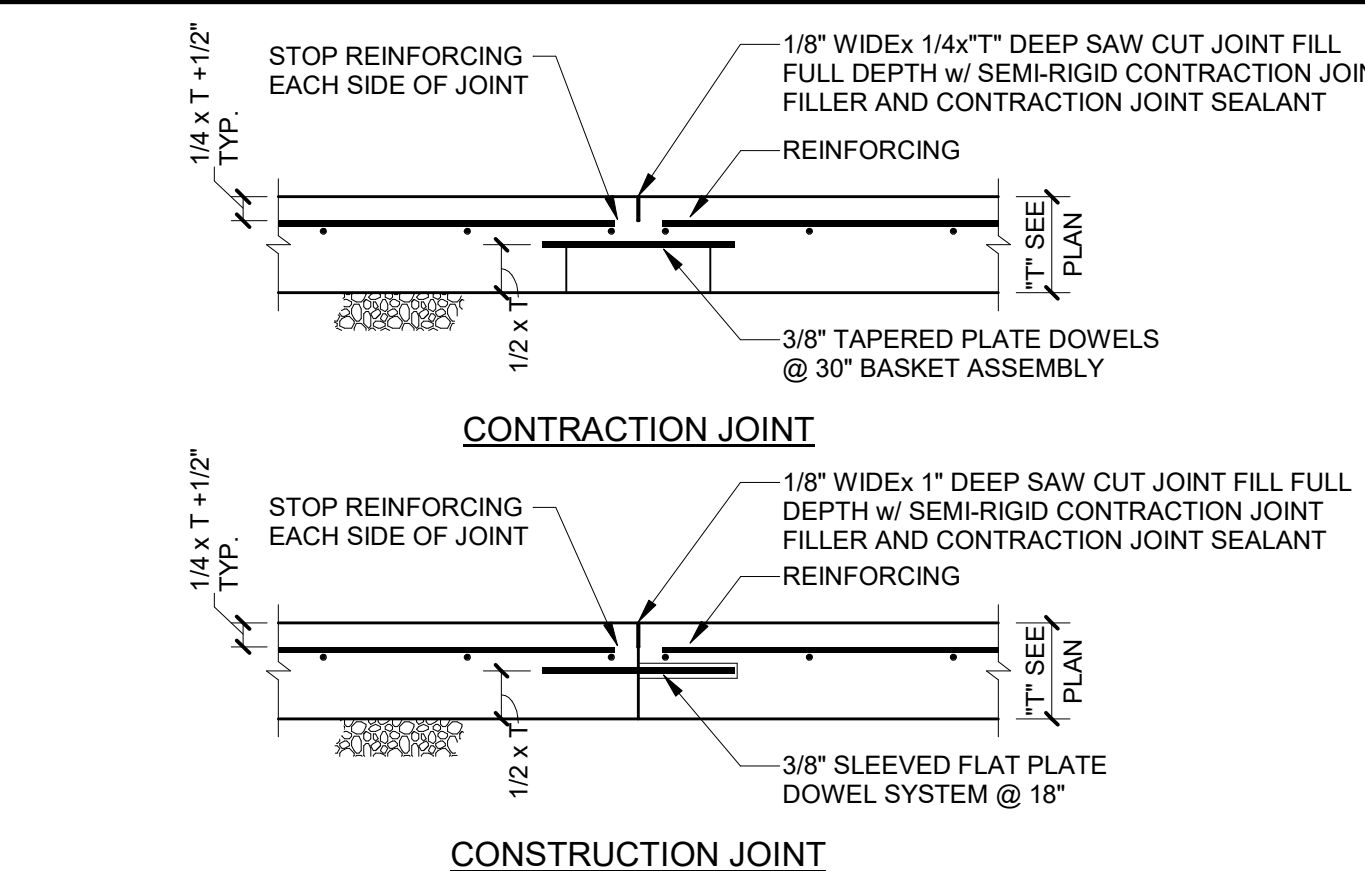
5 TYP. REINFORCING AT DISCONTINUOUS JOINTS



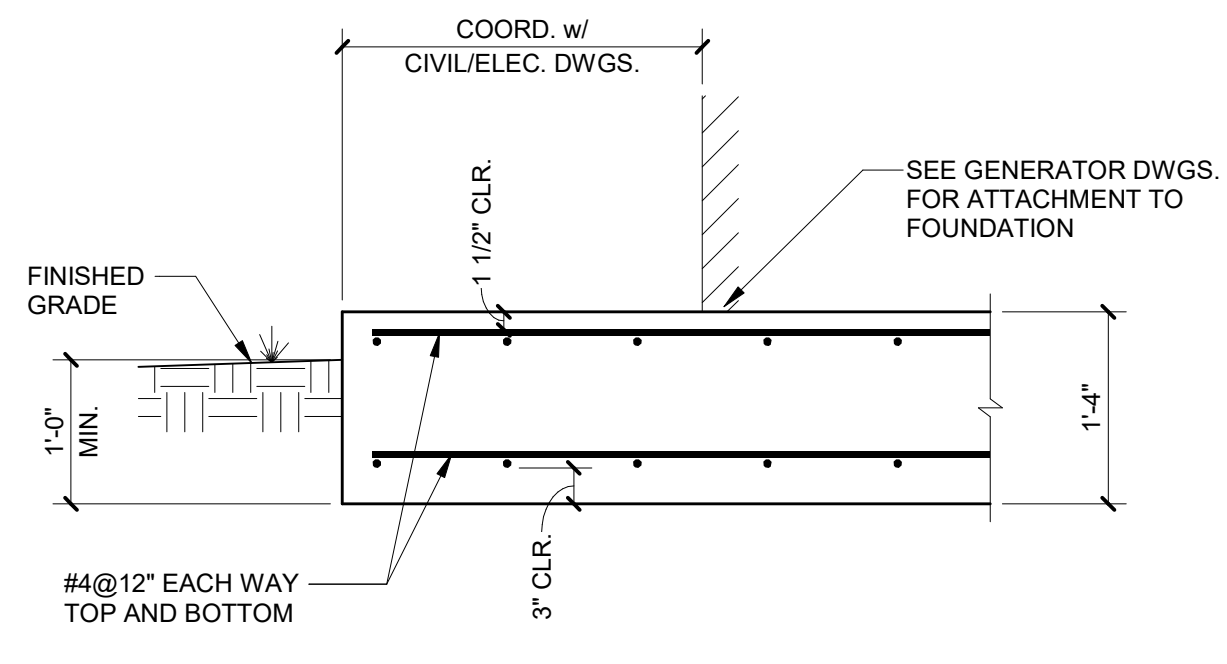
4 TYPICAL REINFORCING AT RE-ENTRANT CORNERS



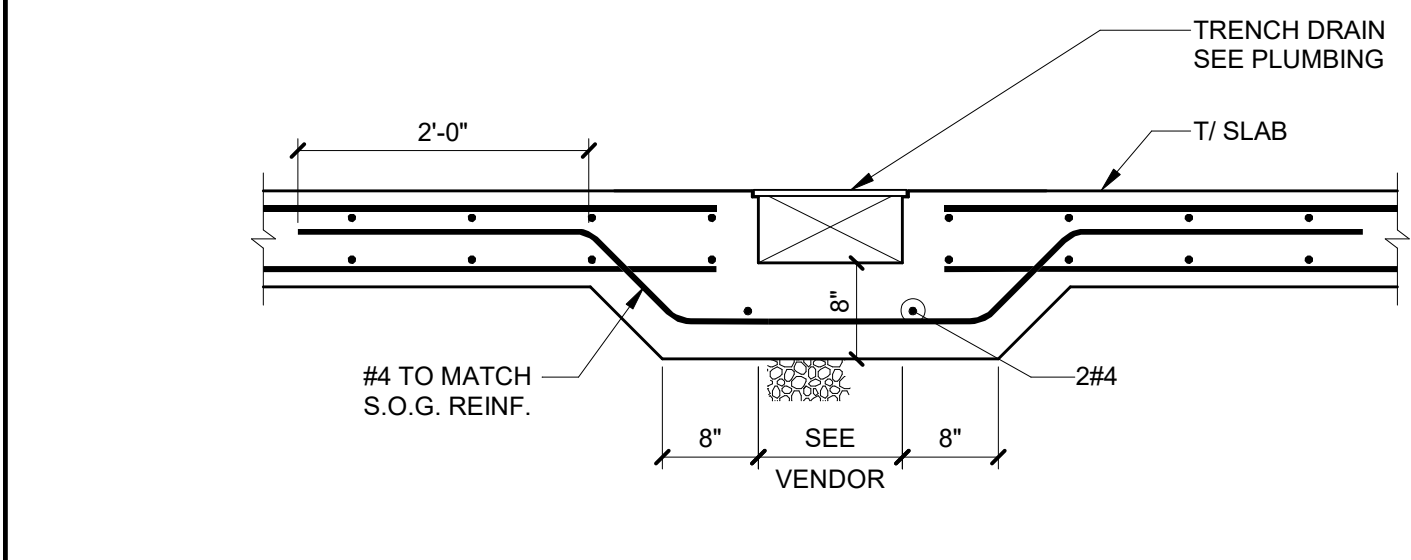
7 TYPICAL WALL FOOTING INTERSECTION REINFORCING PLAN



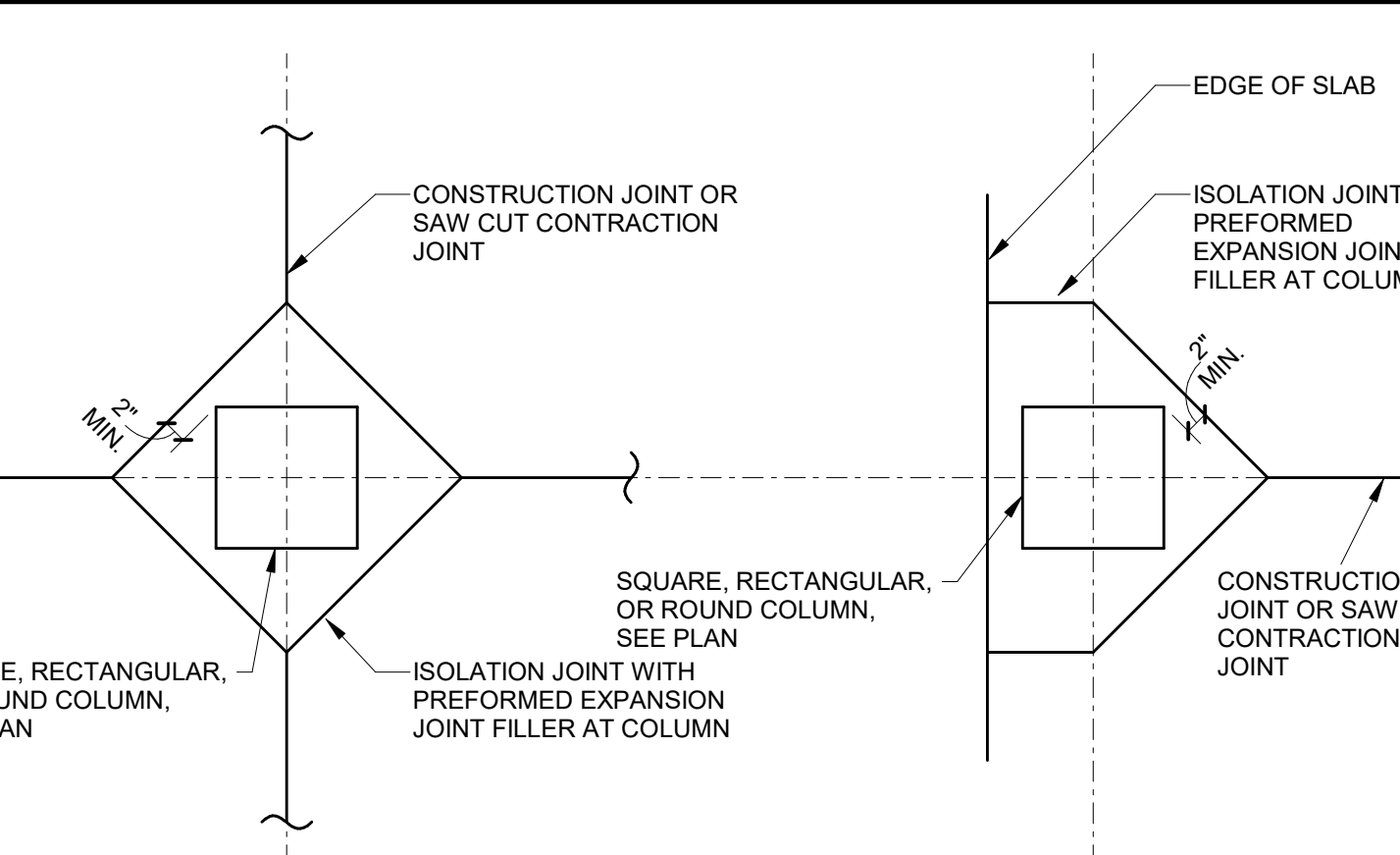
3 TYPICAL SLAB ON GRADE DETAILS AT APP. BAY



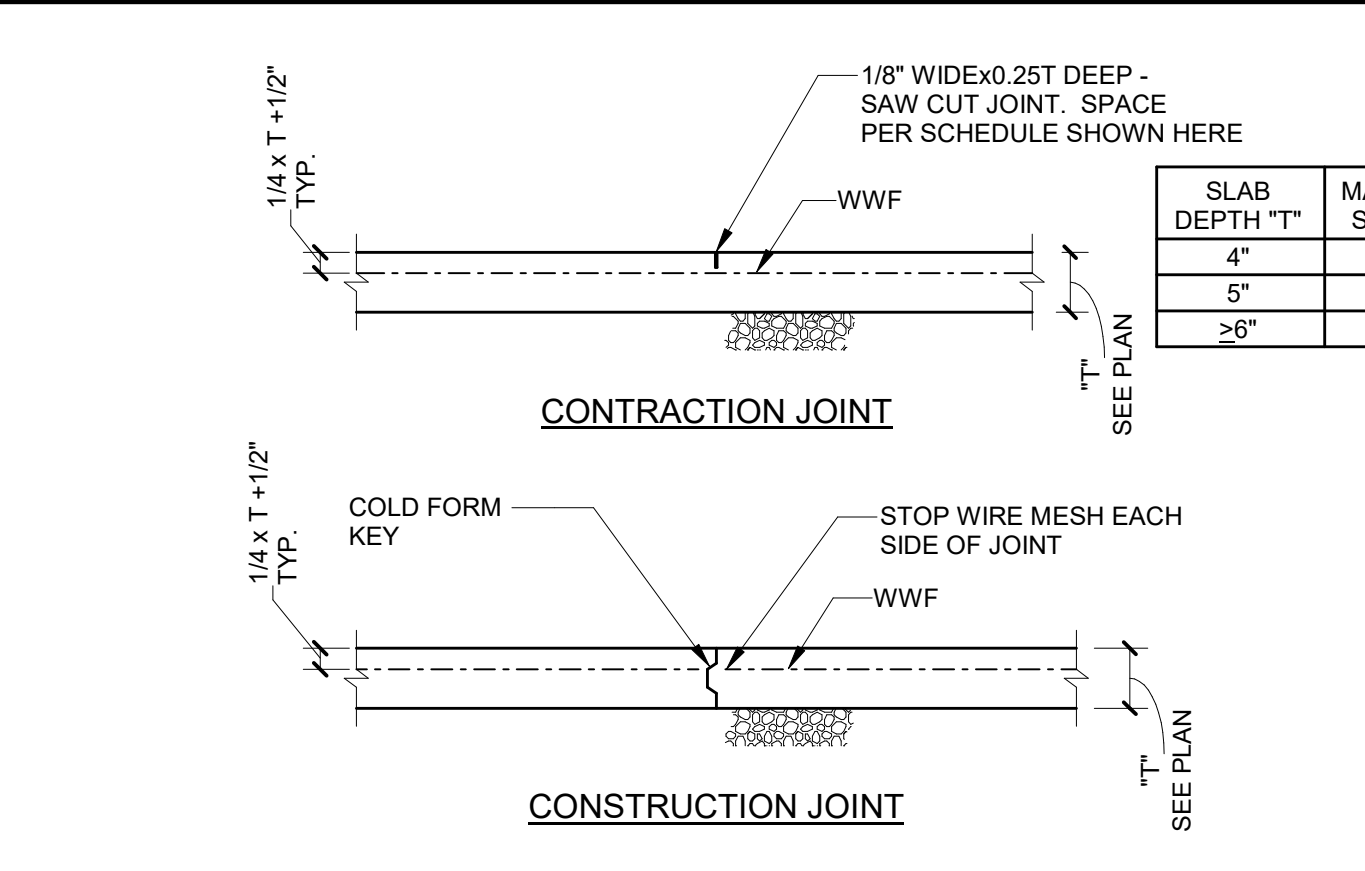
15 GENERATOR FOUNDATION DETAIL



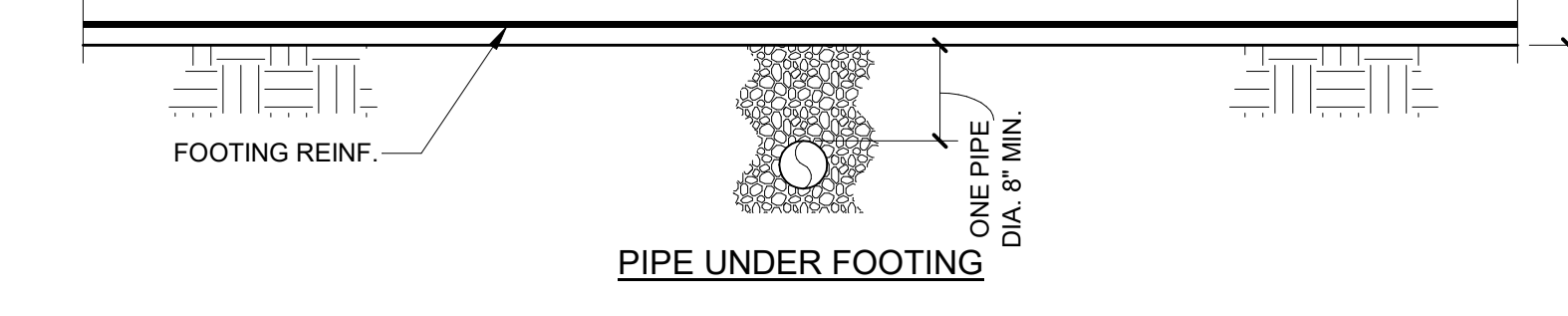
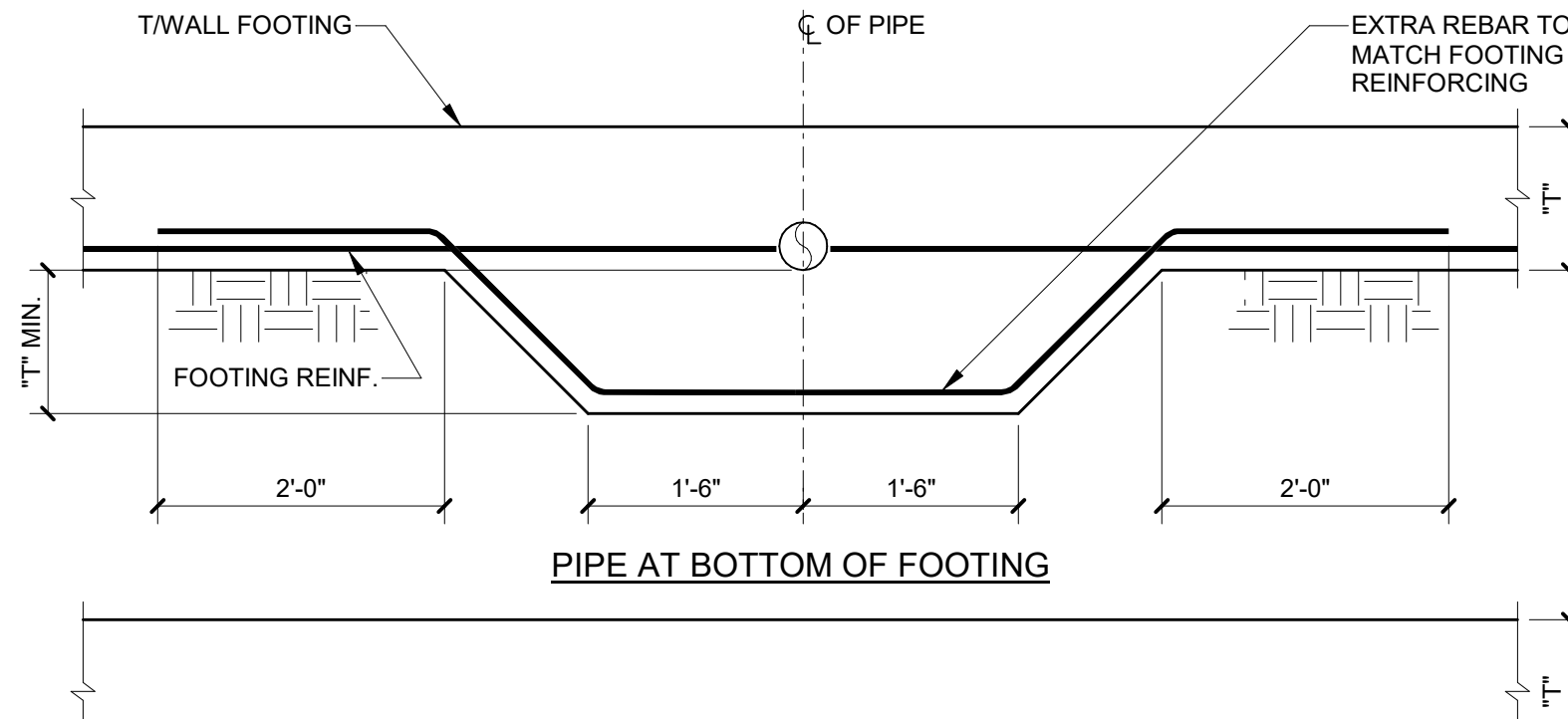
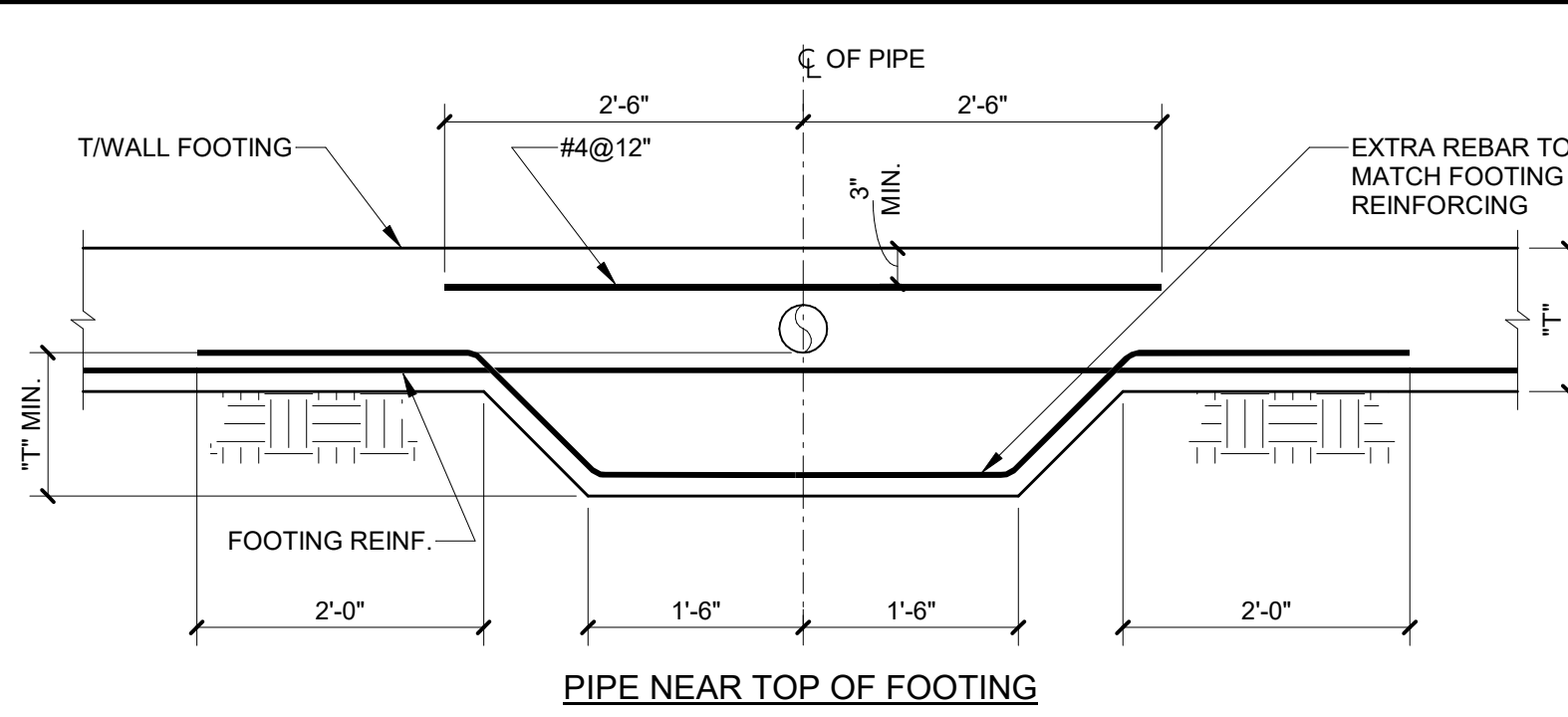
12 TYPICAL SECTION THROUGH NEW FLOOR TRENCH DUCT



6 TYPICAL SLAB ON GRADE JOINT DETAIL AT CONCRETE COLUMNS

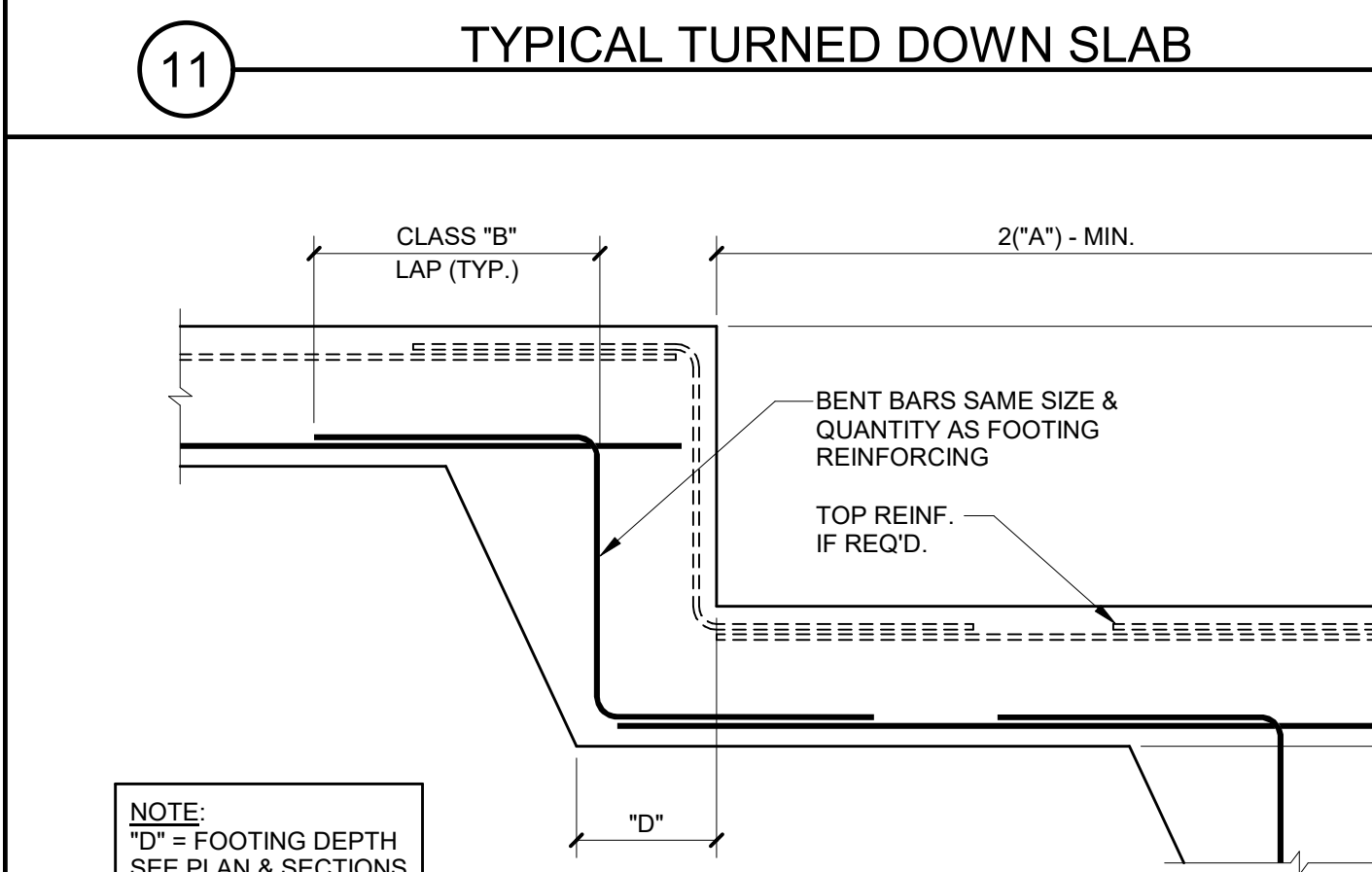


2 TYPICAL SLAB ON GRADE DETAILS

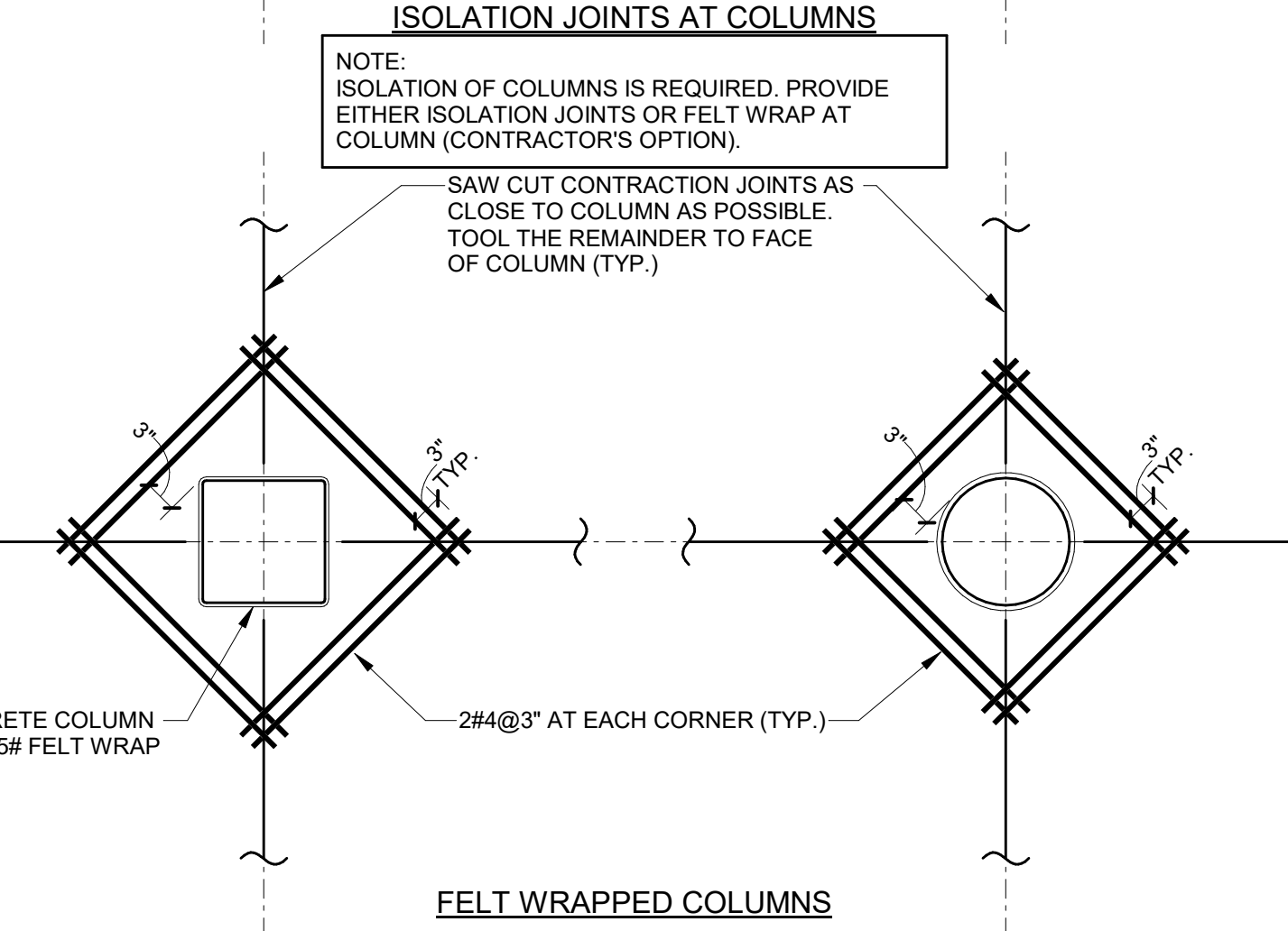


- NOTES:**
1. COORDINATE PIPE PENETRATION LOCATIONS WITH PLUMBING DRAWINGS.
 2. "T" EQUALS WALL FOOTING THICKNESS - SEE SECTIONS.

14 TYPICAL DETAILS OF WALL FOOTINGS PENETRATED BY PLUMBING LINES



10 TYPICAL SECTION AT STEPPED DOWN FOOTING

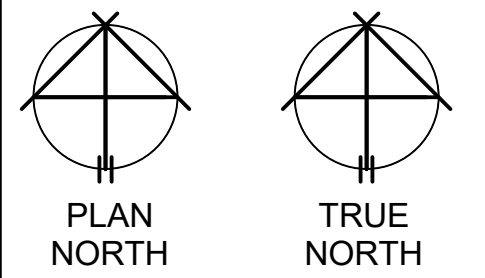


6 TYPICAL SLAB ON GRADE JOINT DETAIL AT CONCRETE COLUMNS

FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	REMARKS
F5.0	5'-0"	5'-0"	1'-6"	5#5 E.W.	5#5 E.W.	

1 FOOTING SCHEDULE



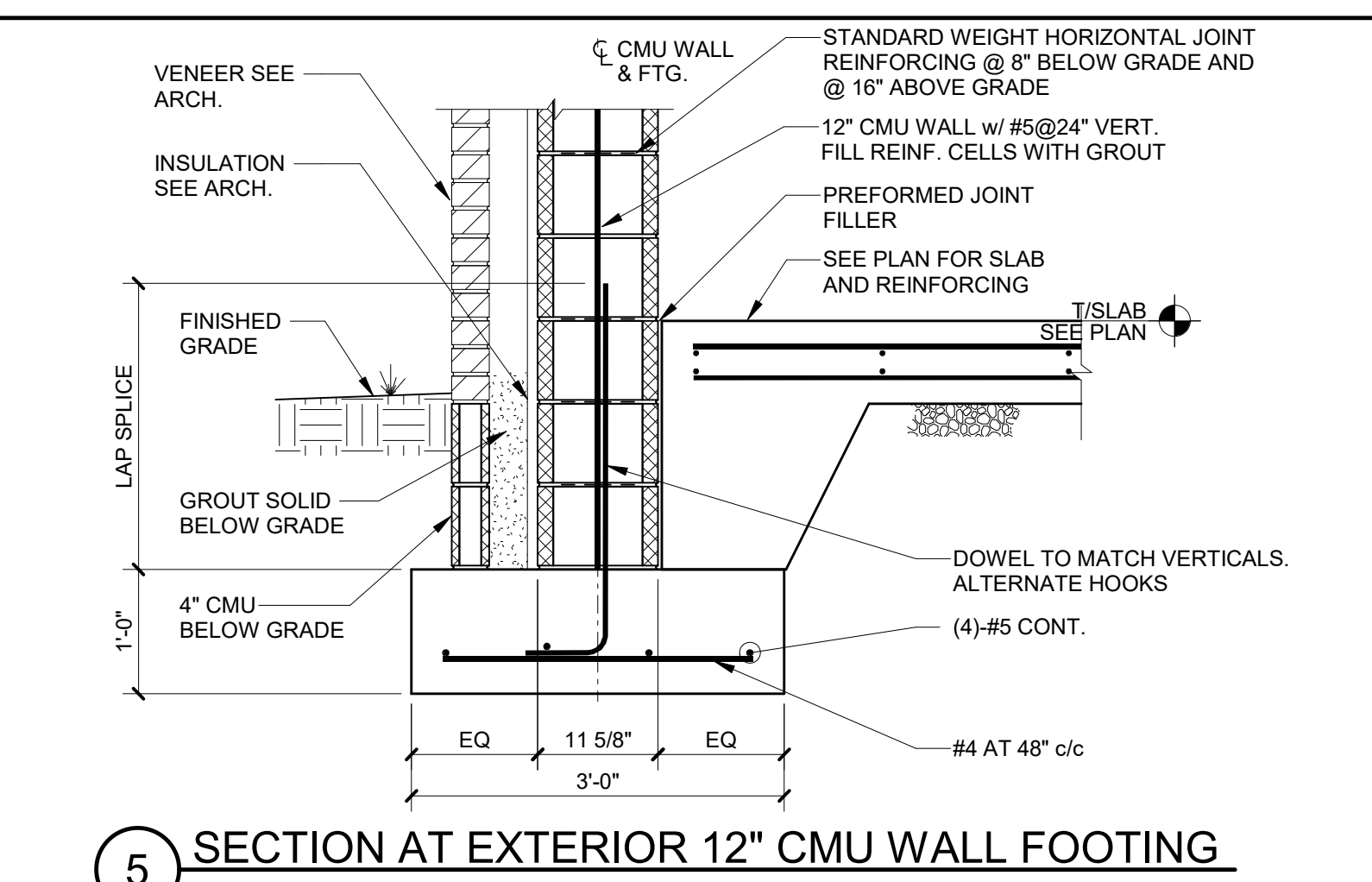
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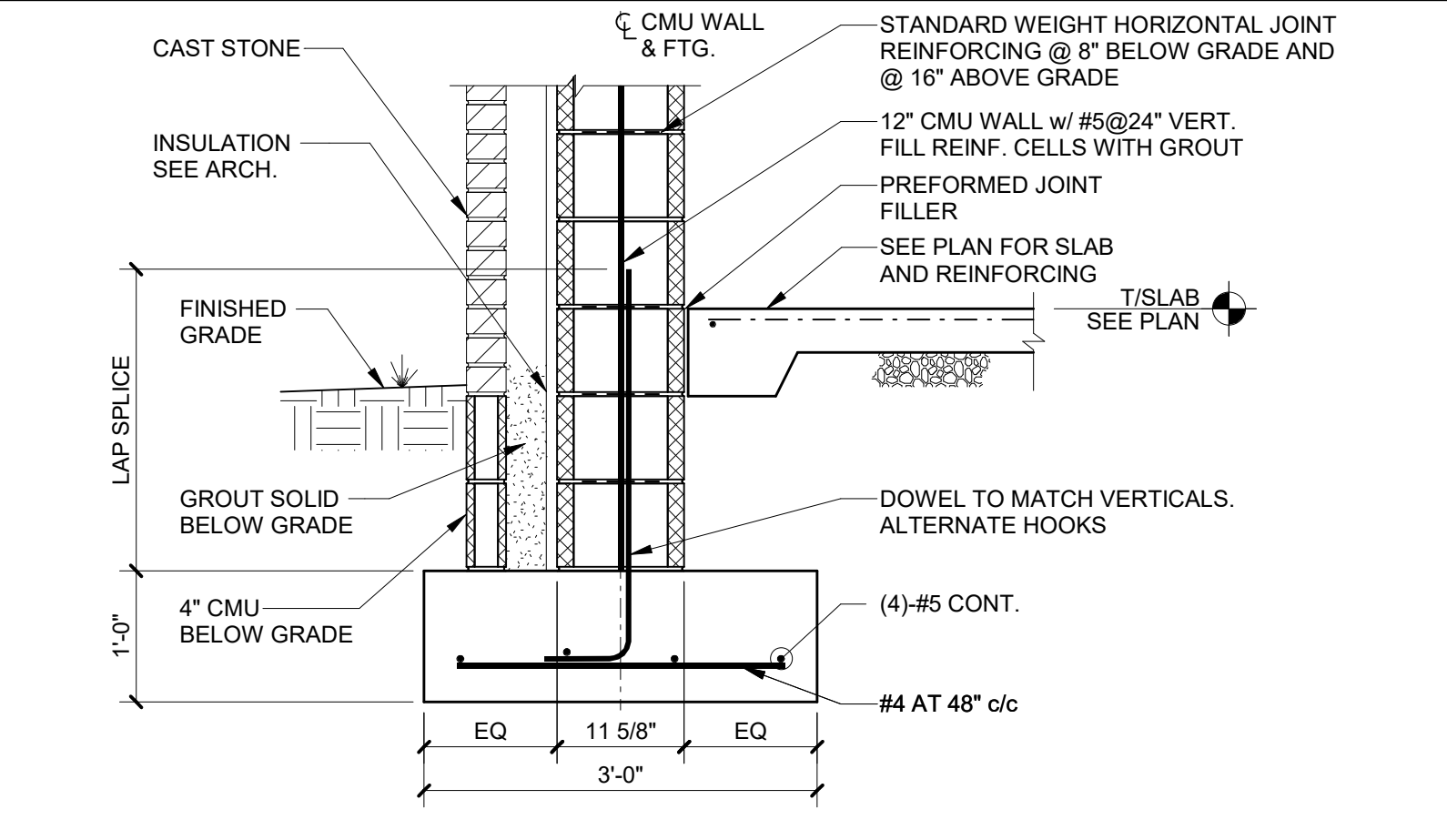
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CK. BY BC
PROJ. NO. A01122
DATE 03/03/23
FOUNDATION
SECTIONS AND
DETAILS

REVISIONS	

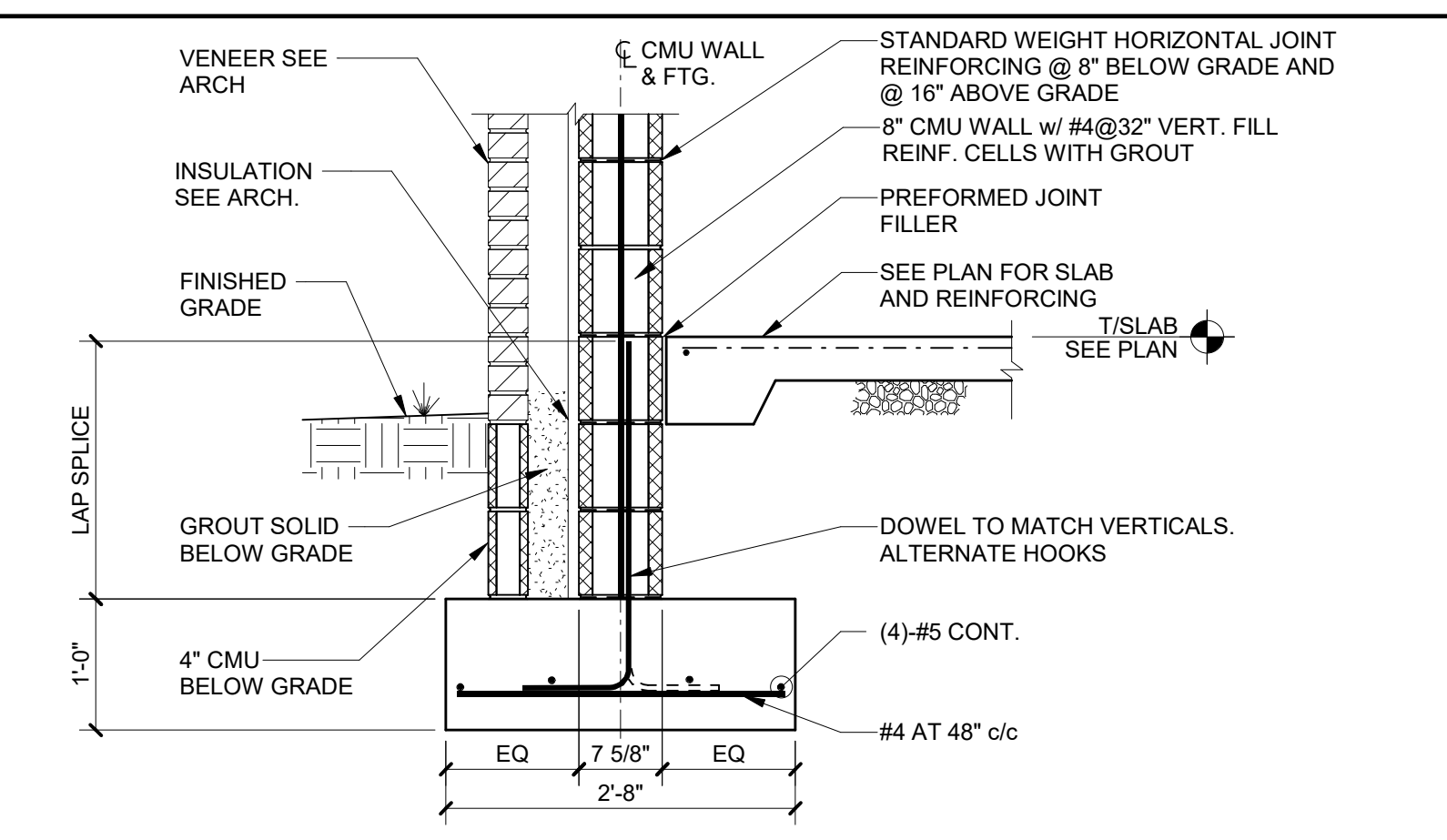
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CK. BY BC
PROJ. NO. A01122
DATE 03/03/23
**FOUNDATION
SECTIONS AND
DETAILS**



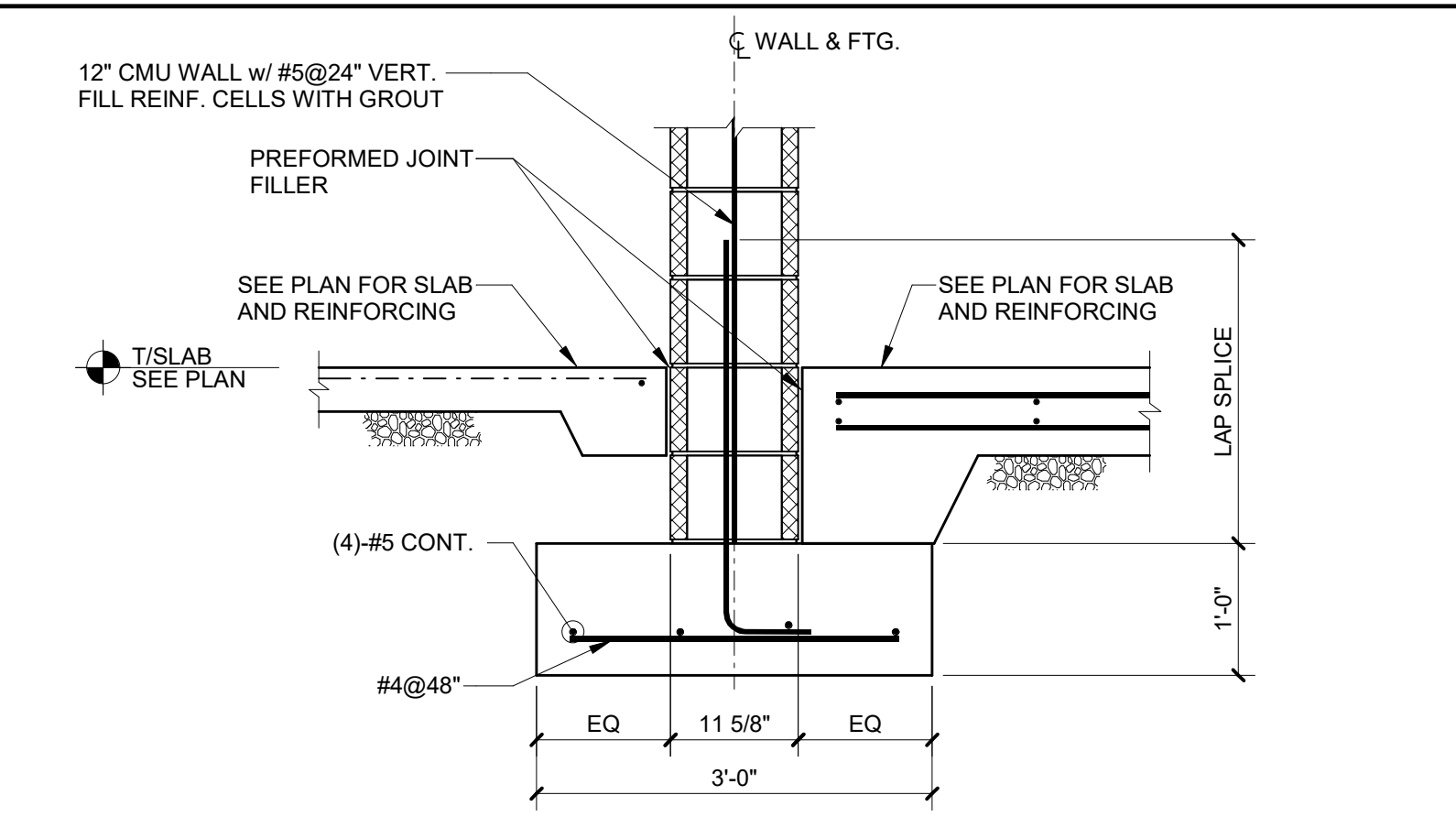
5 SECTION AT EXTERIOR 12" CMU WALL FOOTING



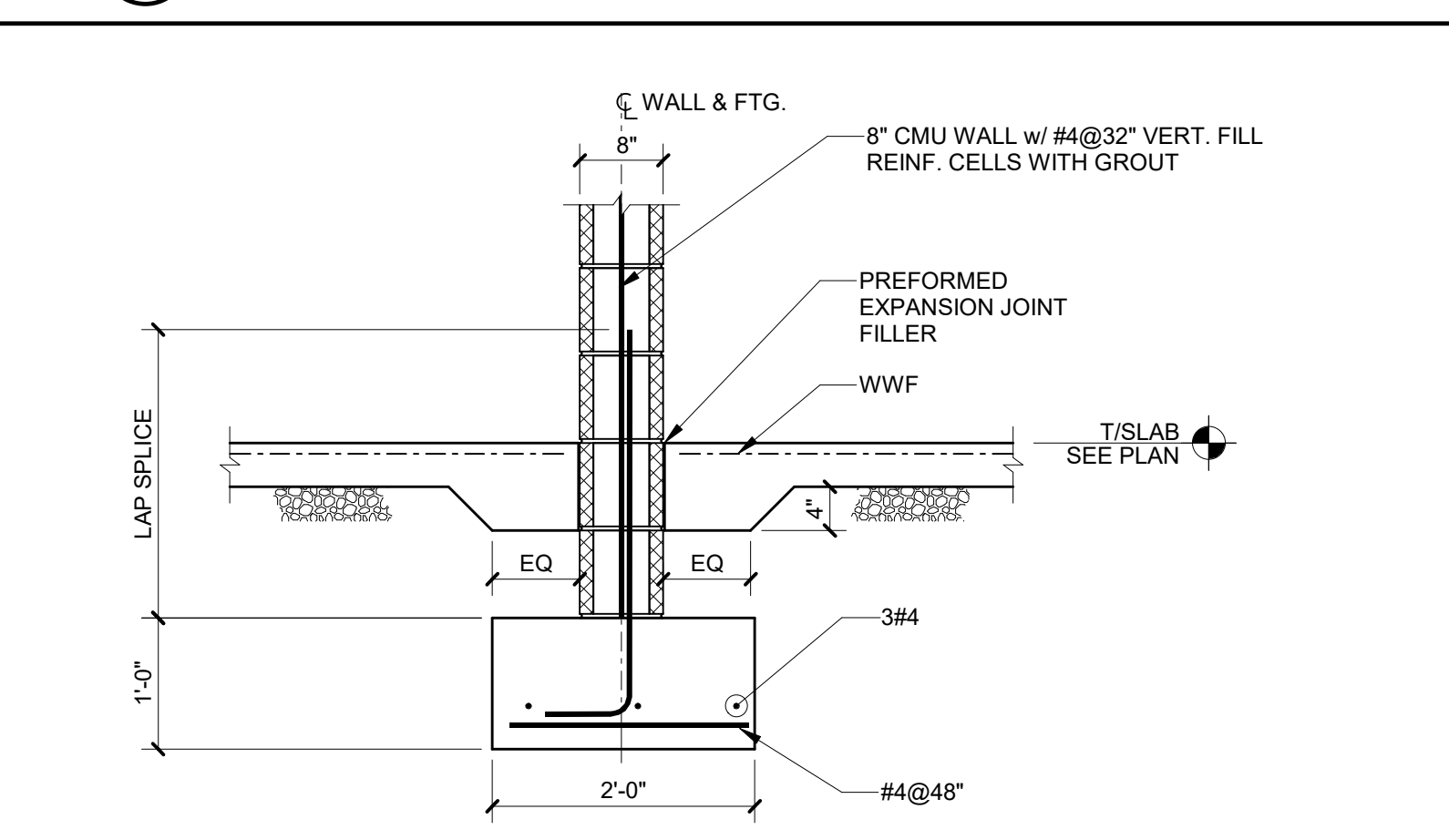
4 SECTION AT EXTERIOR 12" CMU WALL FOOTING



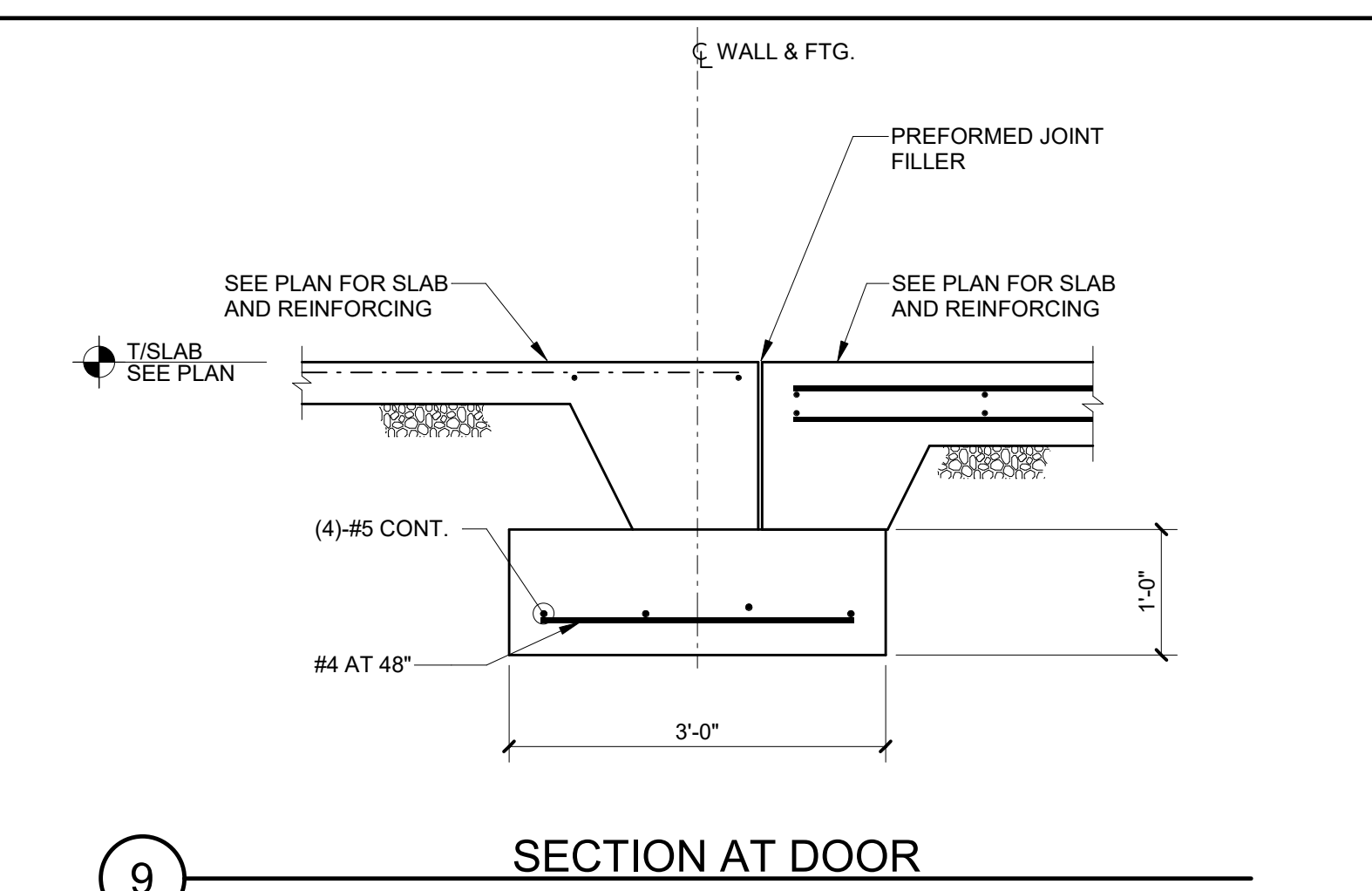
3 SECTION AT EXTERIOR 8" CMU WALL FOOTING



2 SECTION AT INTERIOR 12" CMU WALL FOOTING



1 SECTION AT INT CMU WALL



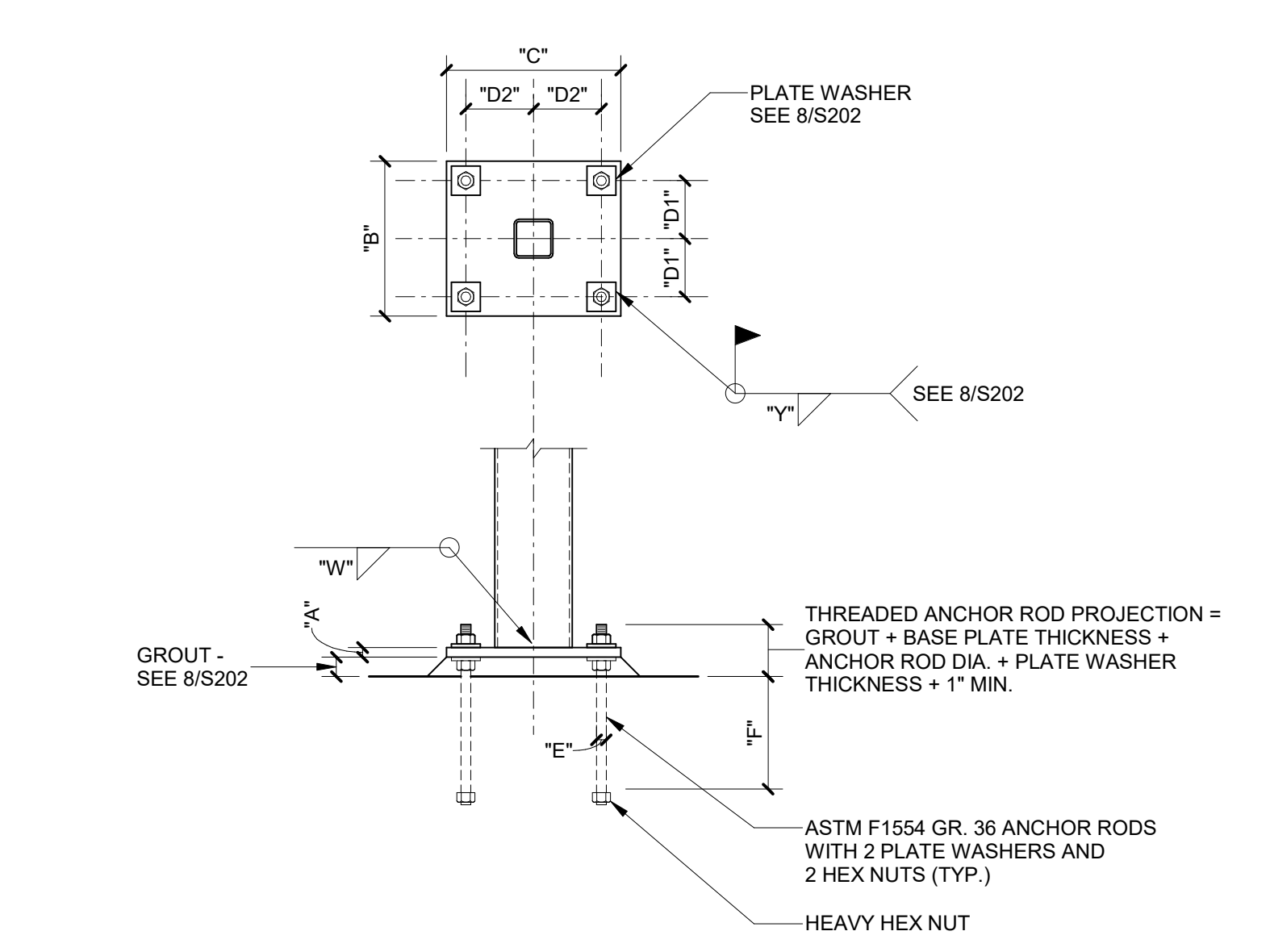
9 SECTION AT DOOR

ANCHOR ROD DIAMETER (INCHES)	MAXIMUM HOLE DIAMETER (INCHES)	MINIMUM WASHER WIDTH (INCHES) NOTE 1	MINIMUM WASHER THICKNESS (INCHES)	BASE PLATE GROUT (INCHES)	WELD, "Y" WASHER TO BASE PLATE (INCHES)
3/4	1 5/16	2	1/4	2	3/16, NOTE 2
7/8	1 9/16	2 1/2	5/16	2	3/16, NOTE 2
1	1 7/8	3	3/8	2	3/16, NOTE 2
1 1/4	2 1/8	3 1/2	1/2	3	3/16
1 1/2	2 3/8	4	1/2	3	3/16
1 3/4	2 7/8	4 1/2	5/8	4	1/4
2	3 1/4	5	3/4	4	5/16
2 1/2	3 3/4	5 1/2	7/8	4	5/16

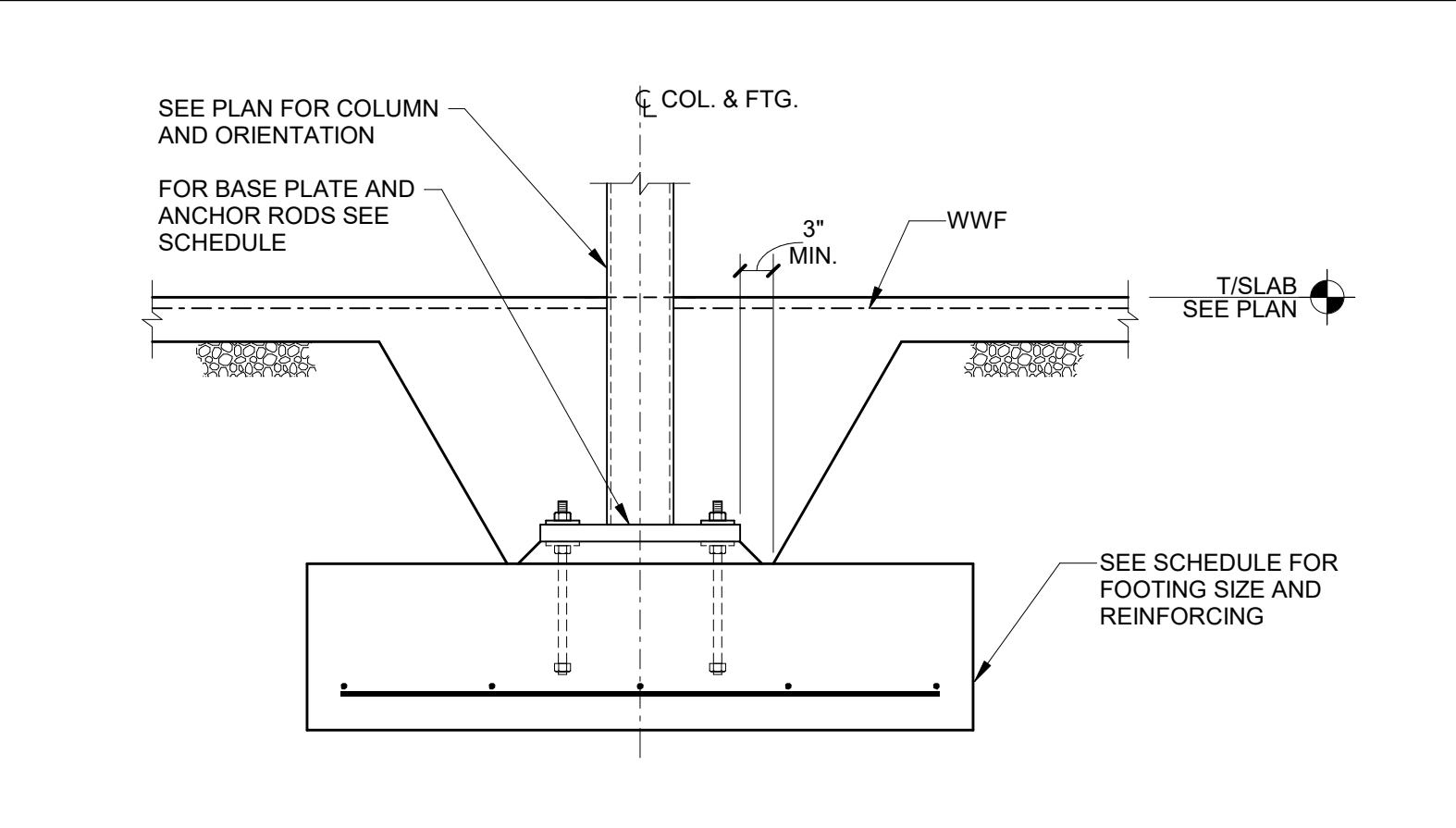
NOTES:
1. PROVIDE SQUARE PLATE WASHERS CONFORMING TO ASTM A36 WITH STANDARD HOLES.
2. WELDS ARE NOT REQUIRED FOR GRAVITY COLUMNS.

8 PLATE WASHER & GROUT THICKNESS SCHEDULE

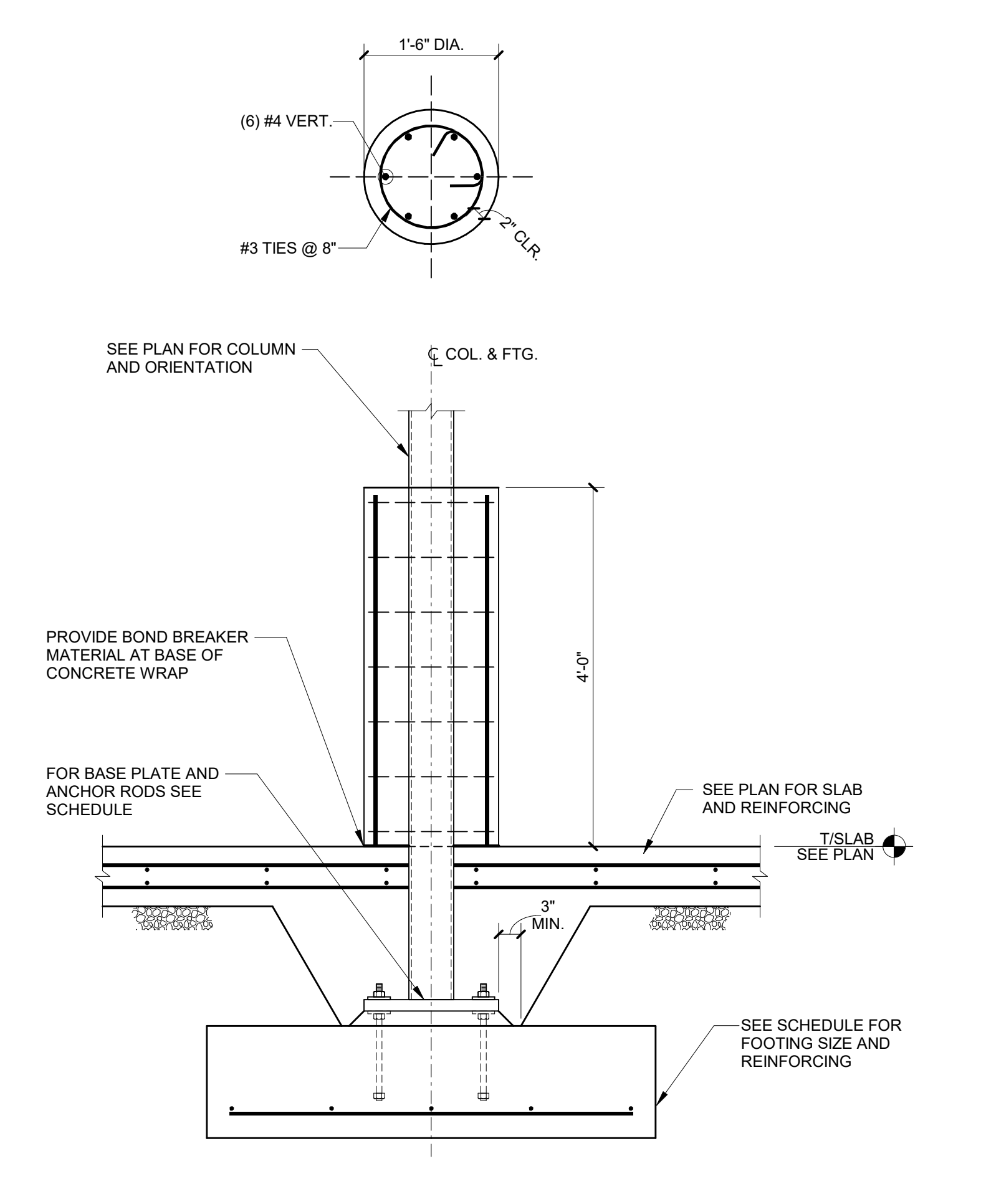
COLUMN SIZE	BASE PLATE				ANCHOR RODS			WELD	
	A	B	C	D1	D2	E	F		N#
HSS 4x4	3/4"	12"	12"	4"	4"	1"	12"	4	1/4
HSS 6x6	1"	14"	14"	5"	5"	1"	12"	4	1/4
8" STD PIPE	1"	16"	16"	6"	6"	1"	9"	4	3/16



7 BASE PLATE AND ANCHOR ROD SCHEDULE



6 TYPICAL INTERIOR COLUMN FOOTING DETAIL



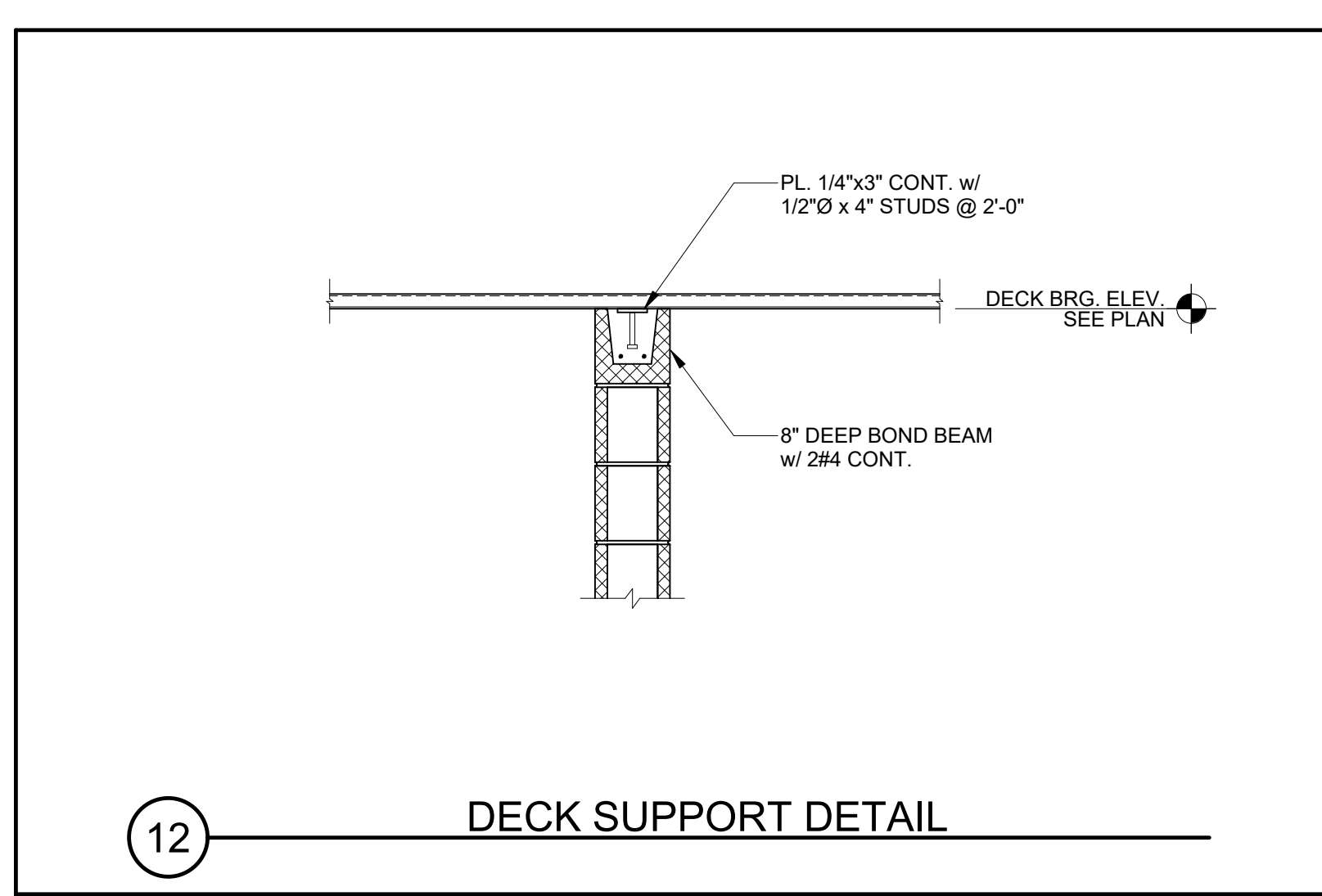
10 SECTION AT INTERIOR COLUMNS IN APPARATUS BAY



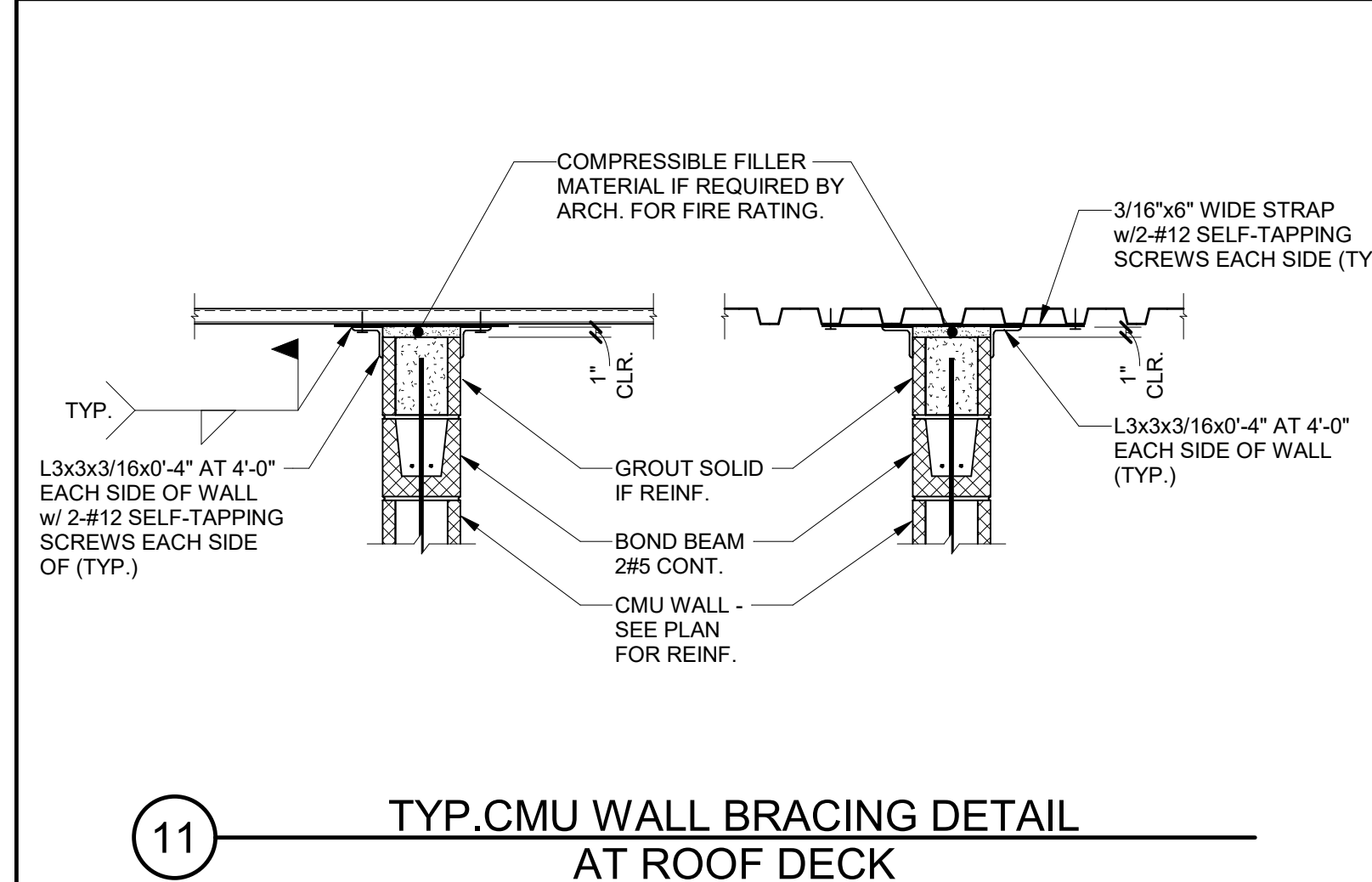
NO.	DATE	BY	CHK.	DESCRIPTION

DR. BY JR
CK. BY BC
PROJ. NO. A01122
DATE 03/03/23
MASONRY SECTIONS AND DETAILS

S301



12 DECK SUPPORT DETAIL

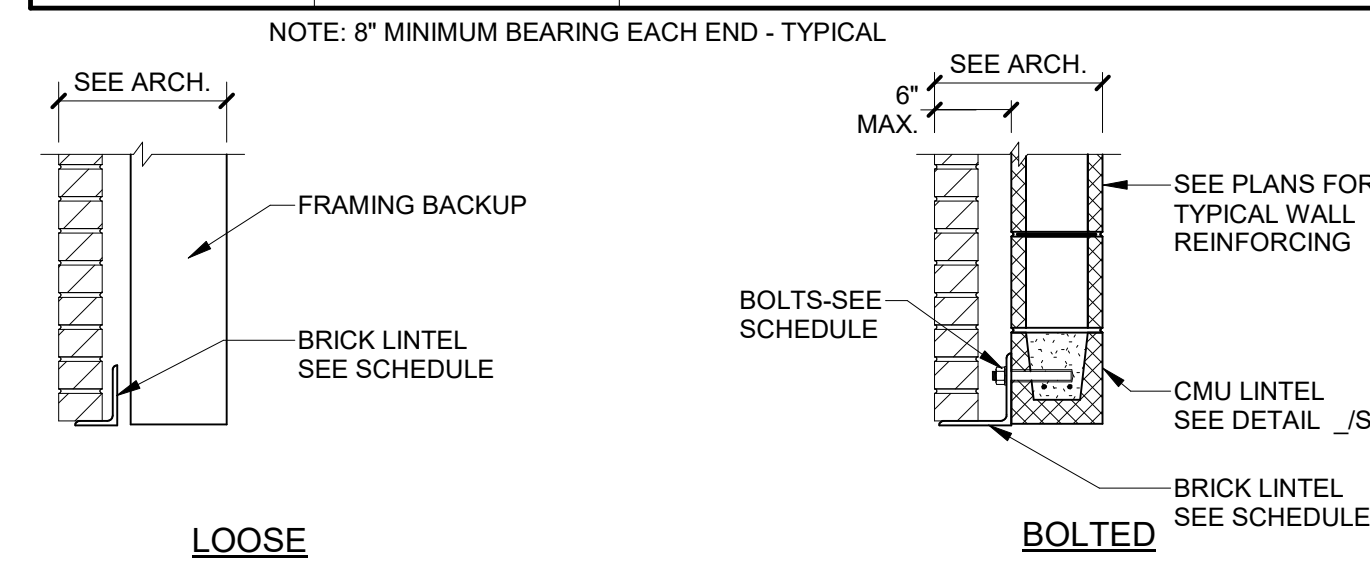


11 TYP. CMU WALL BRACING DETAIL AT ROOF DECK

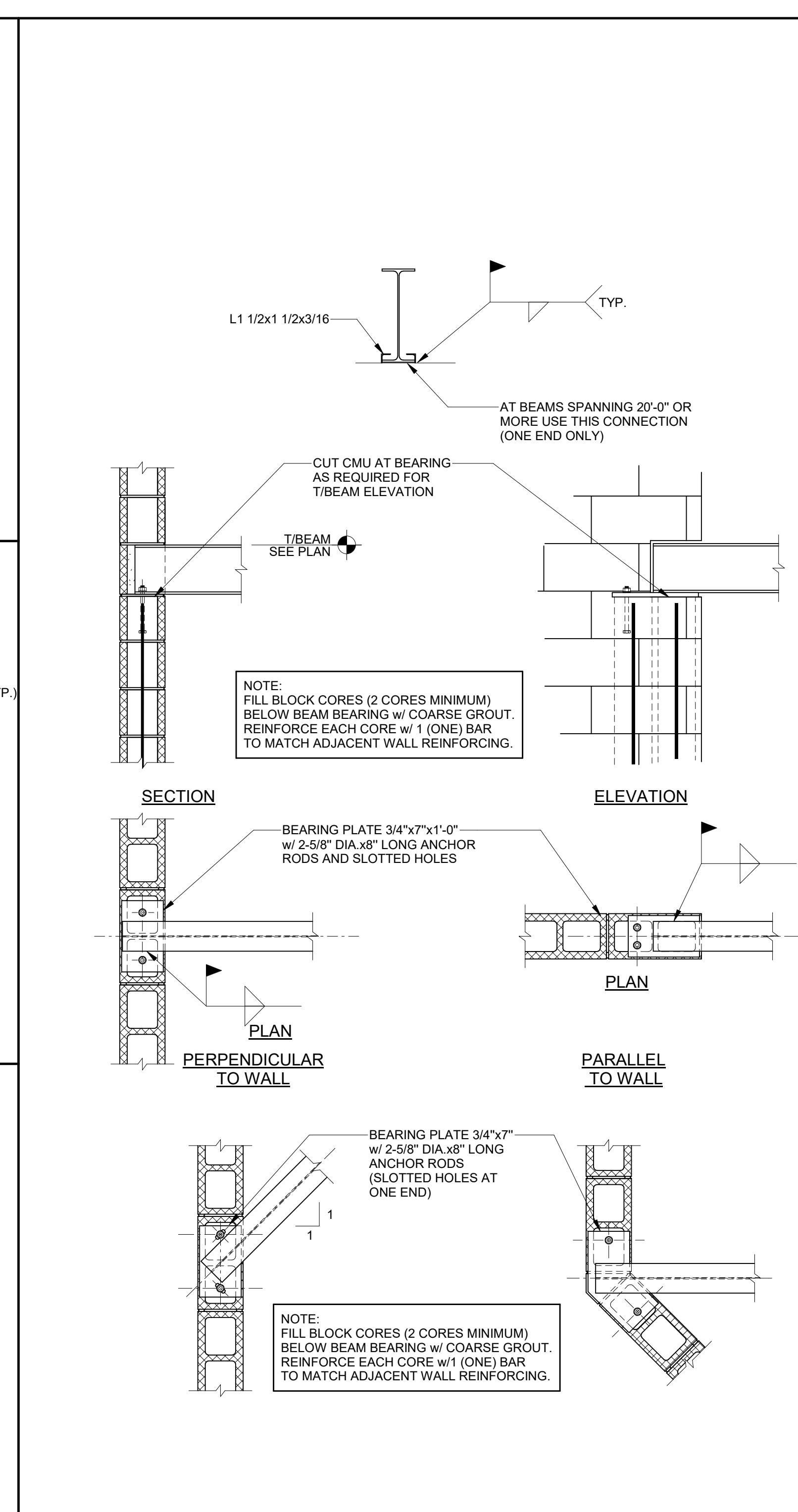
LINTEL ANGLE SCHEDULE

OPENING WIDTH	ANGLE SIZE	REMARKS
0'-0" TO 4'-0"	L3 1/2x3 1/2x1/4	LOOSE - DO NOT ATTACH TO BACKUP
4'-1" TO 8'-0"	L5x3 1/2x1/4 (LLV)	LOOSE - DO NOT ATTACH TO BACKUP
OVER 8'-0"	L5x5x5/16	CMU BACKUP: BOLTED 3/4" DIA. EPOXY ANCHORS AT 2'-0" OTHER BACKUP: CONTACT ENGINEER

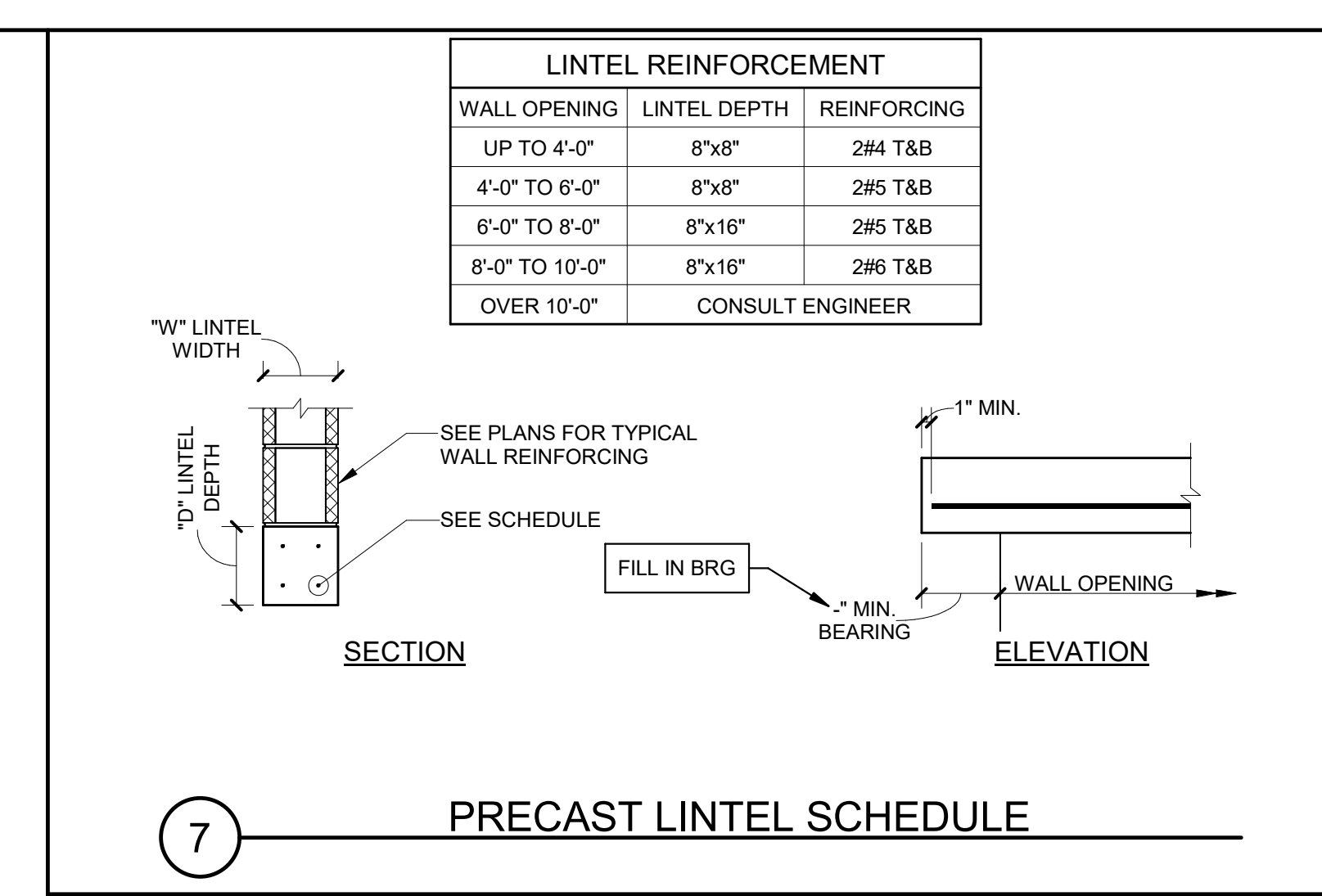
NOTE: 8" MINIMUM BEARING EACH END - TYPICAL



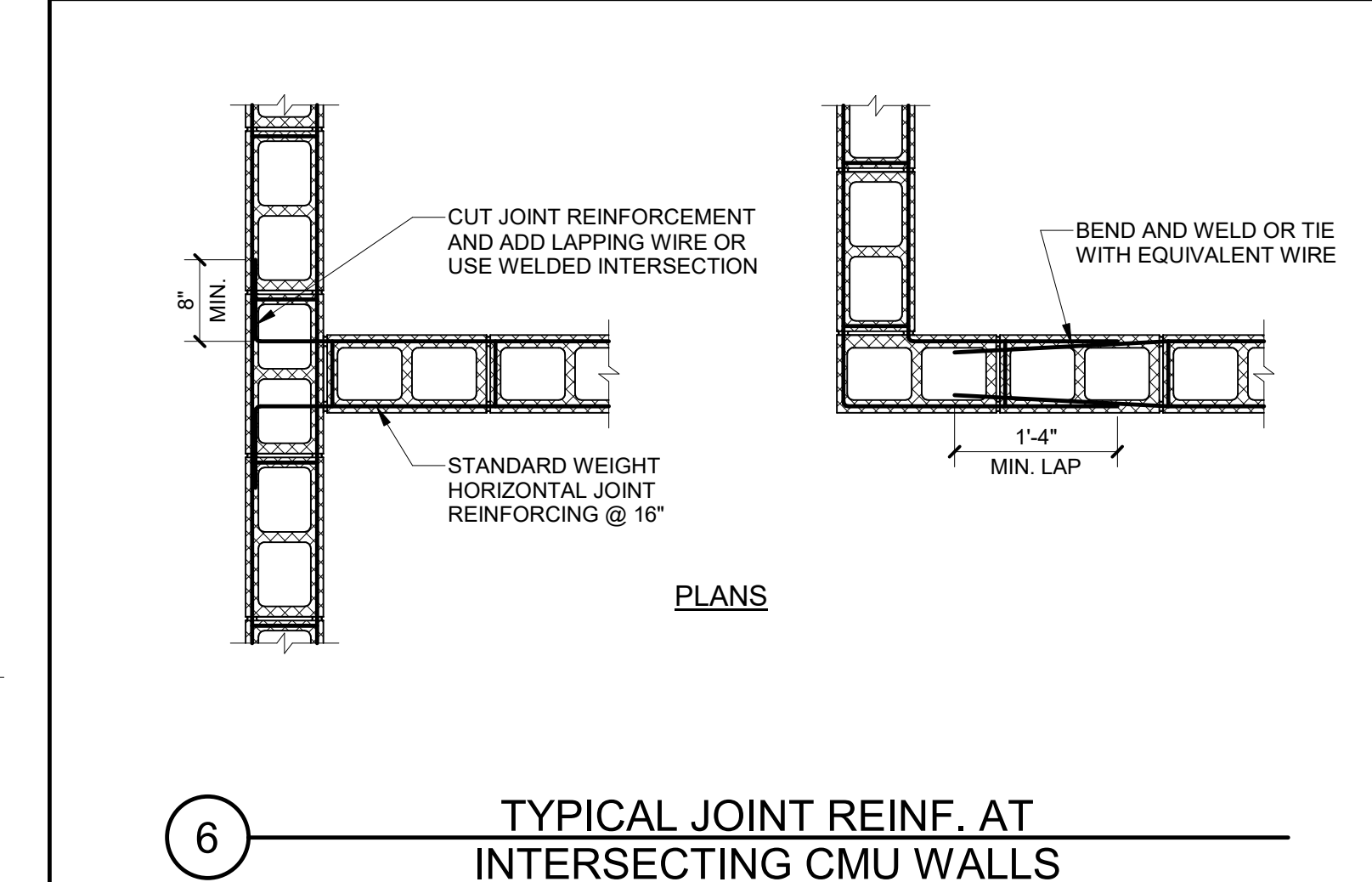
10 TYPICAL BRICK LINTEL DETAILS



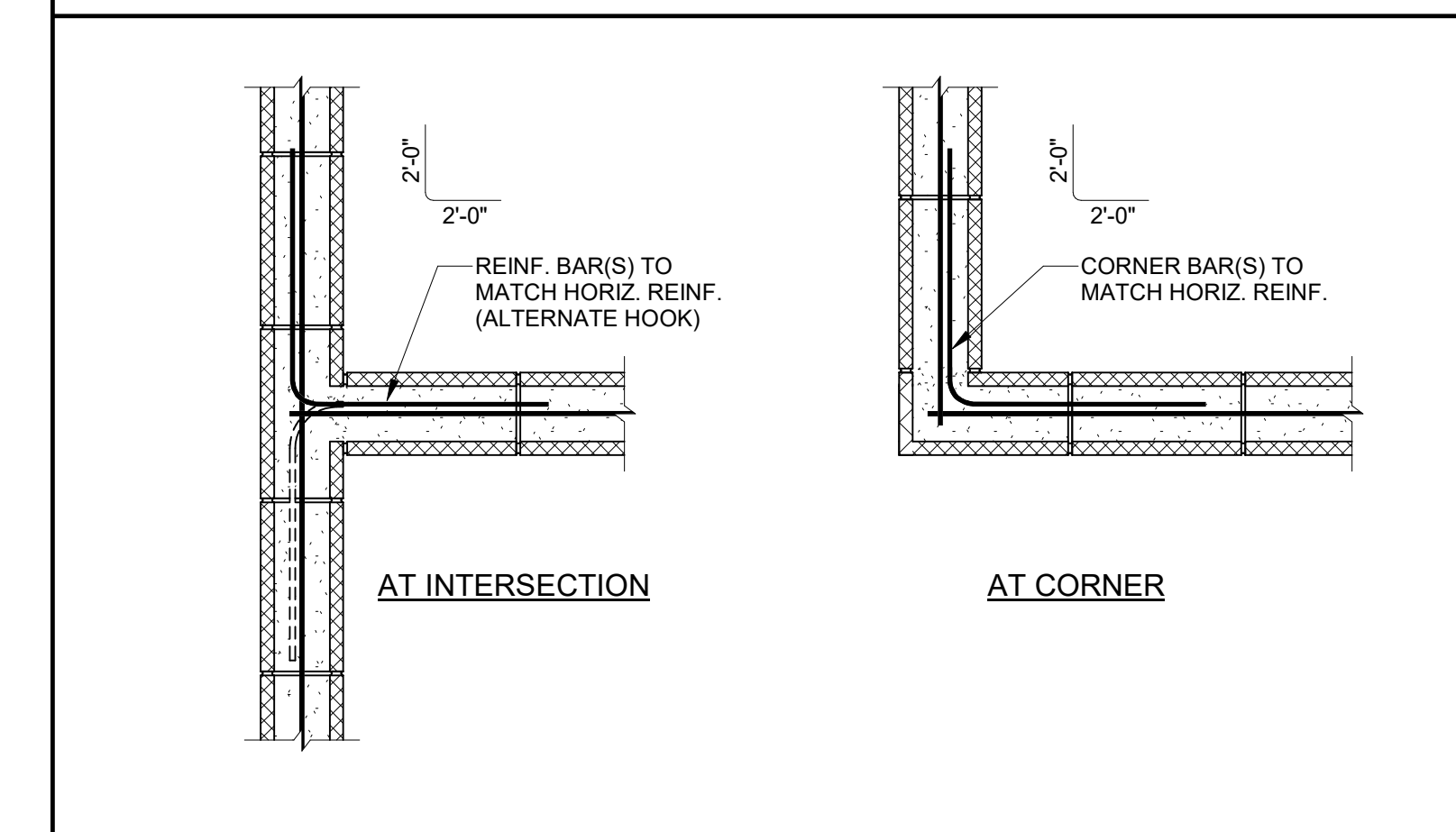
9 TYPICAL BEAM BEARING AT CMU WALLS



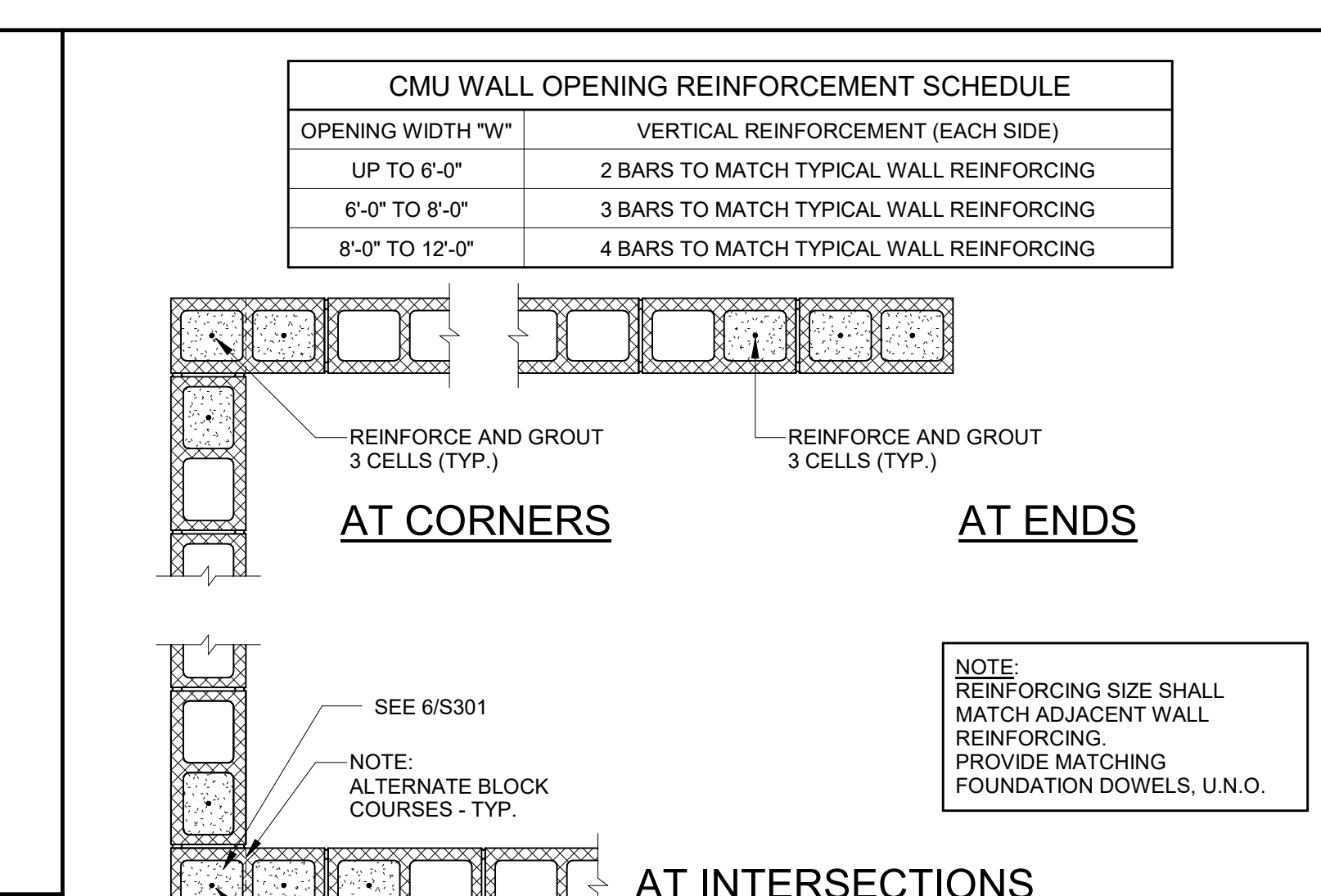
7 PRECAST LINTEL SCHEDULE



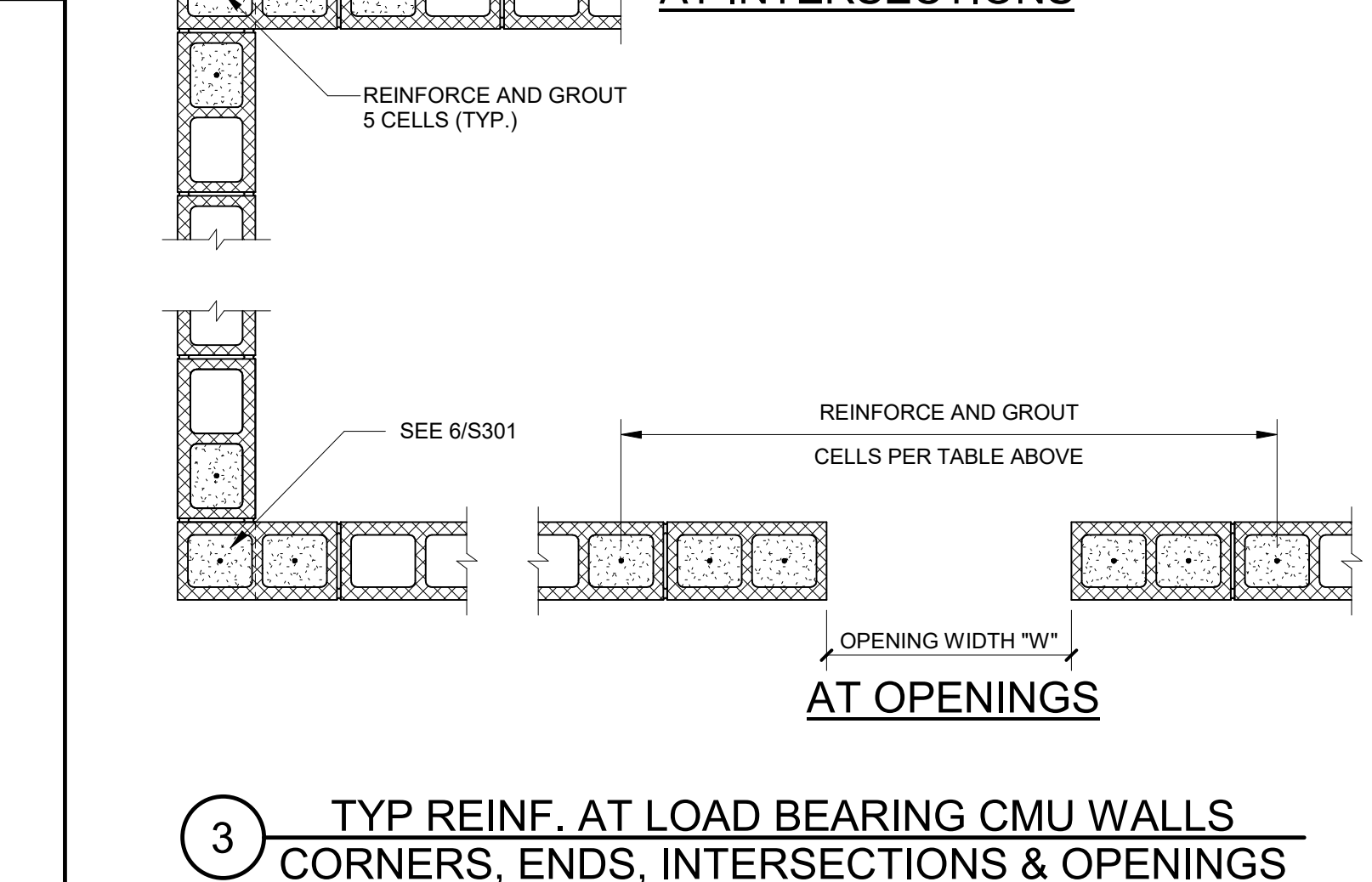
6 TYPICAL JOINT REINF. AT INTERSECTING CMU WALLS



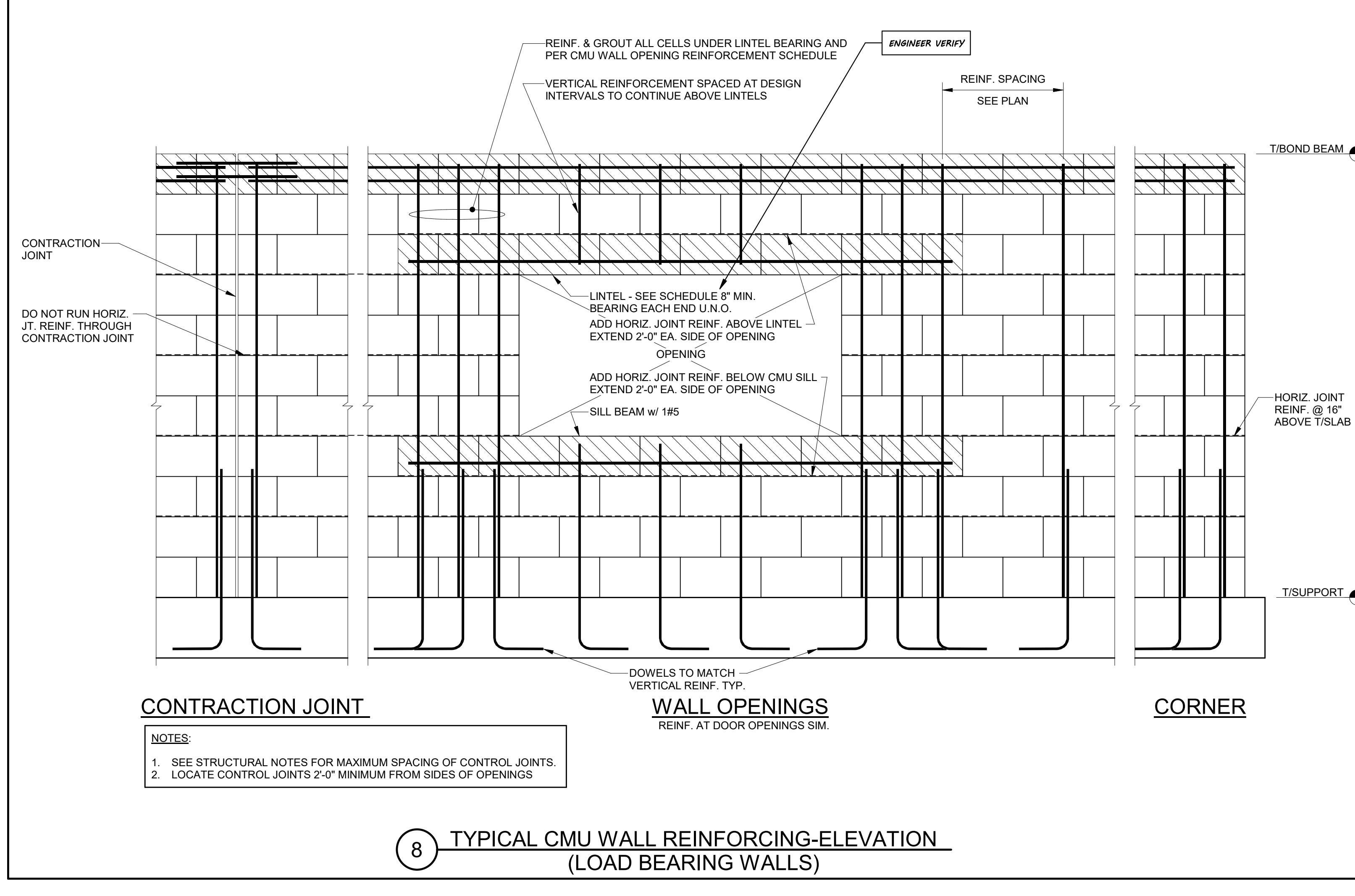
5 TYPICAL BOND BEAM REINF. AT INTERSECTING CMU WALL



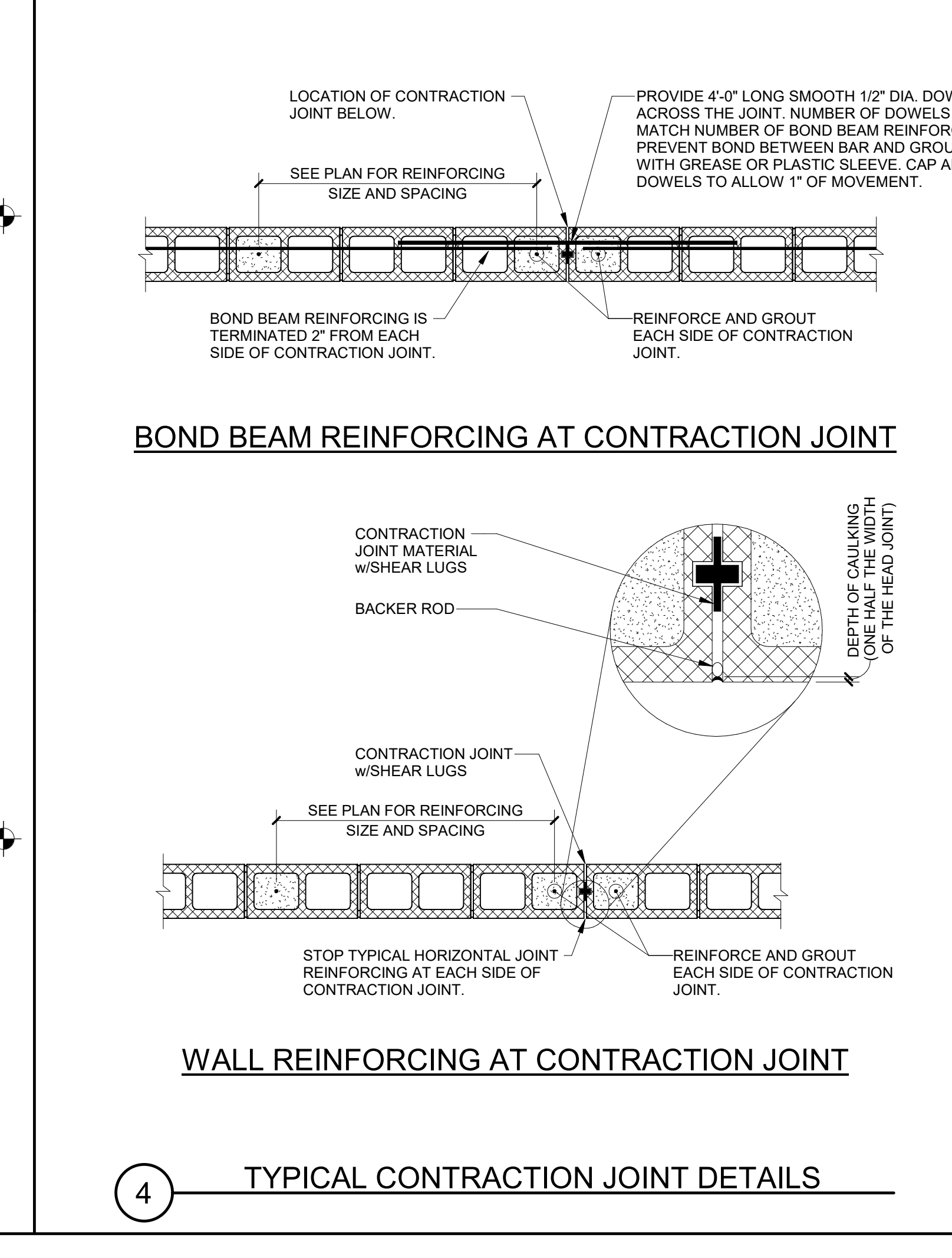
3 TYP. REIN. AT LOAD BEARING CMU WALLS CORNERS, ENDS, INTERSECTIONS & OPENINGS



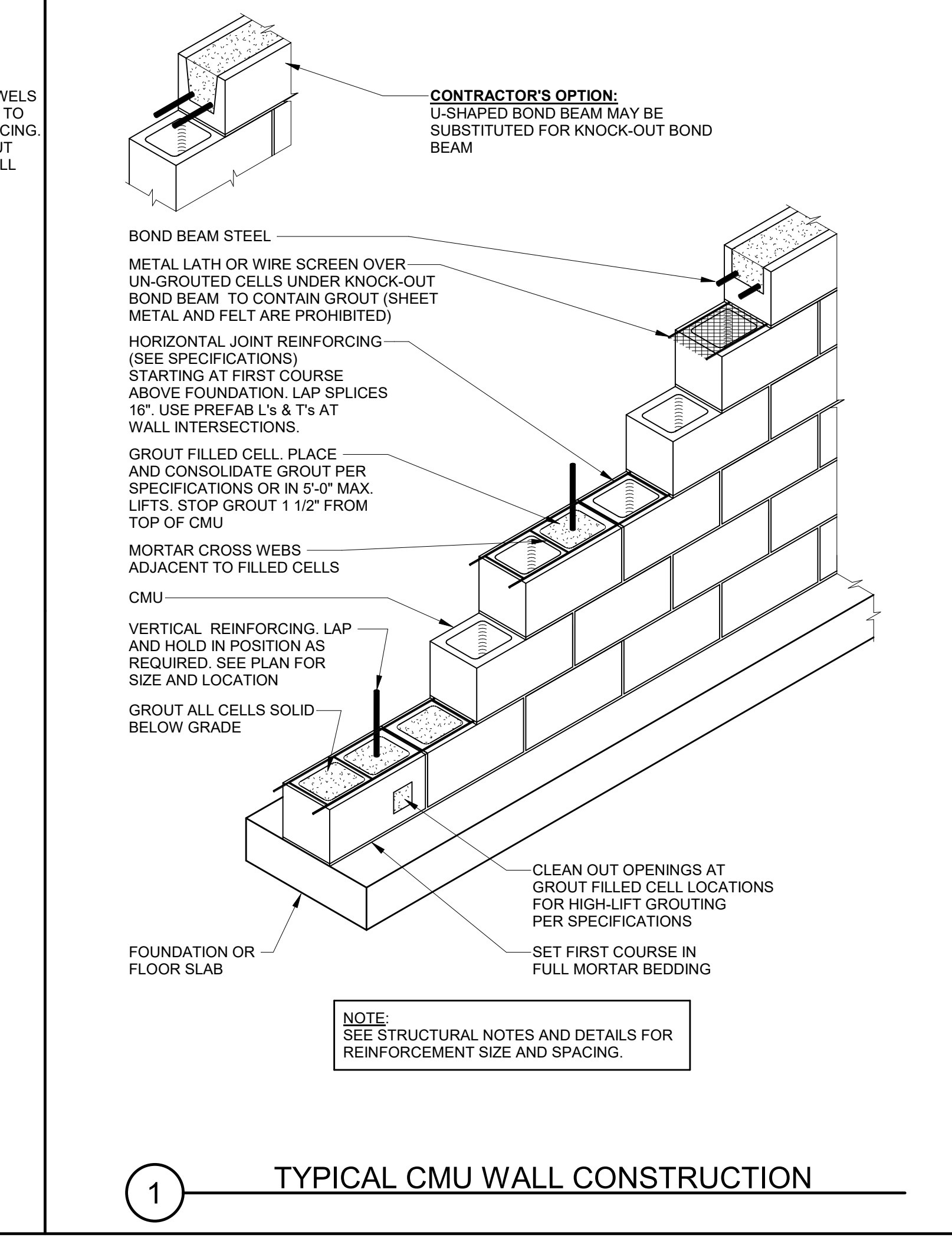
2 CMU LINTEL SCHEDULE



8 TYPICAL CMU WALL REINFORCING-ELEVATION (LOAD BEARING WALLS)

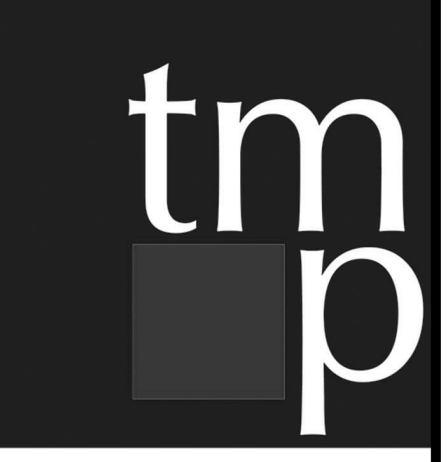


4 TYPICAL CONTRACTION JOINT DETAILS



1 TYPICAL CMU WALL CONSTRUCTION

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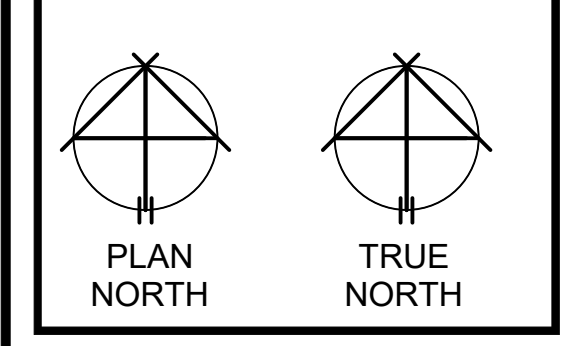
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Project No. 22027.00

COA No. 1329

**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

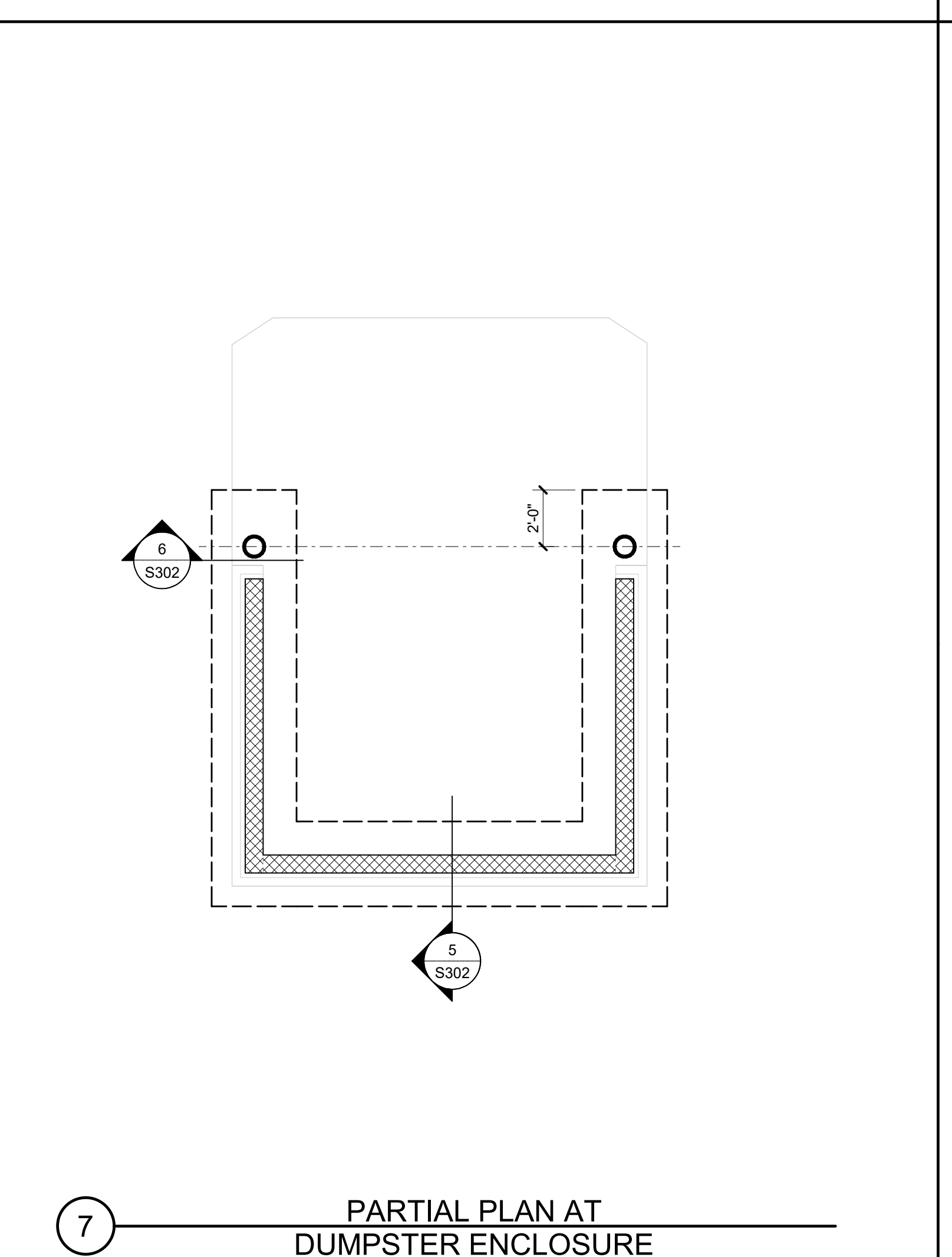
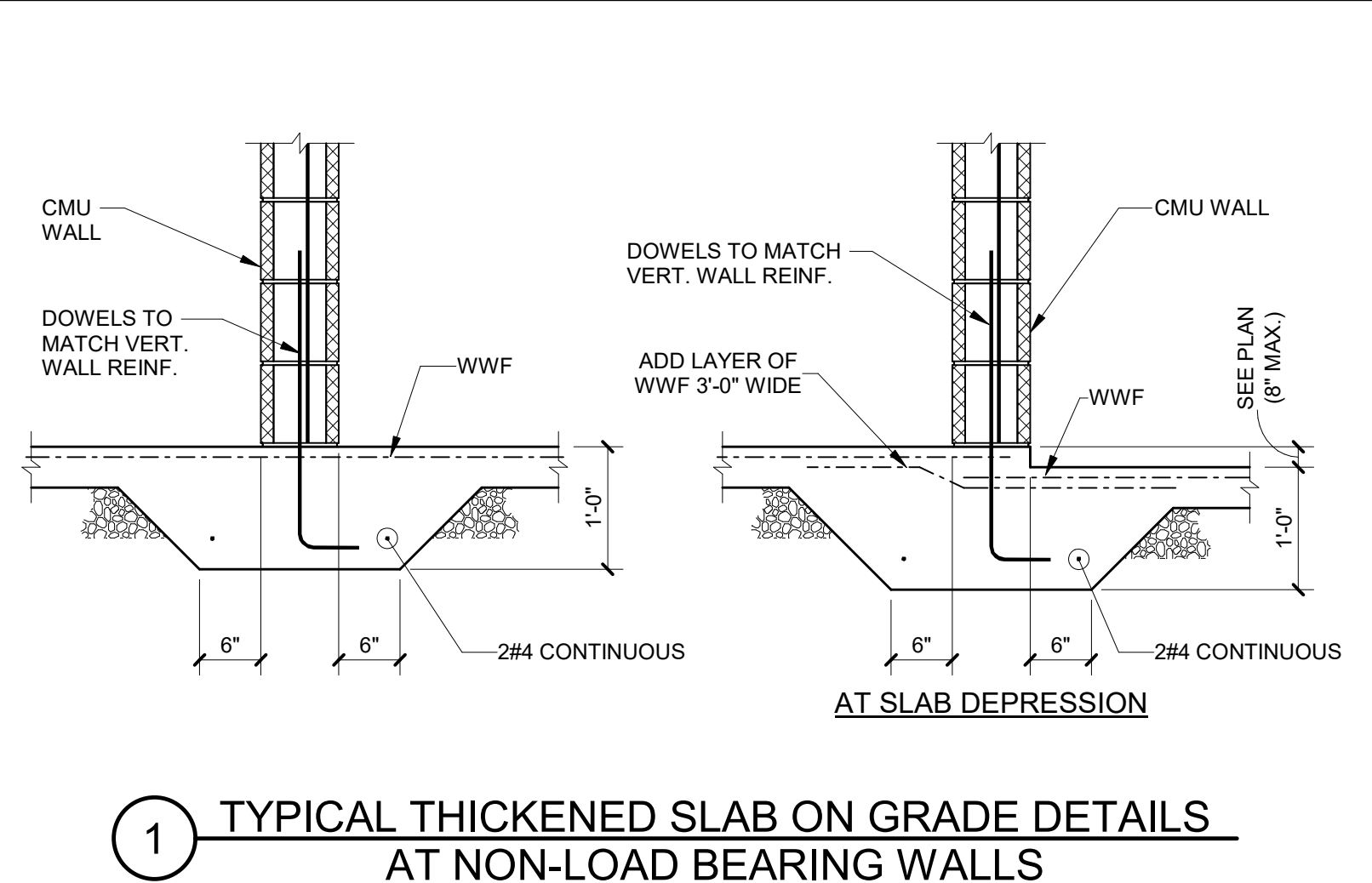
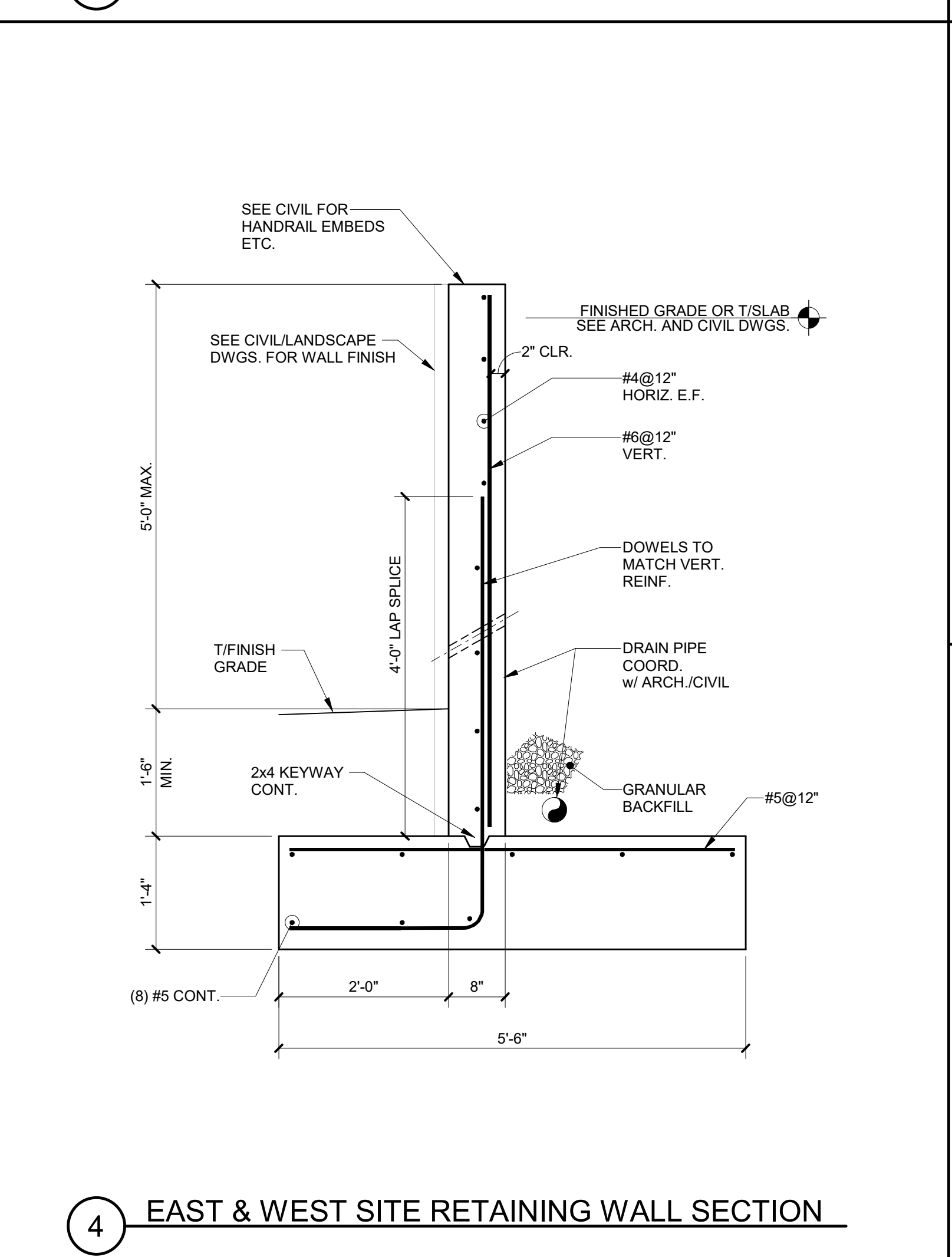
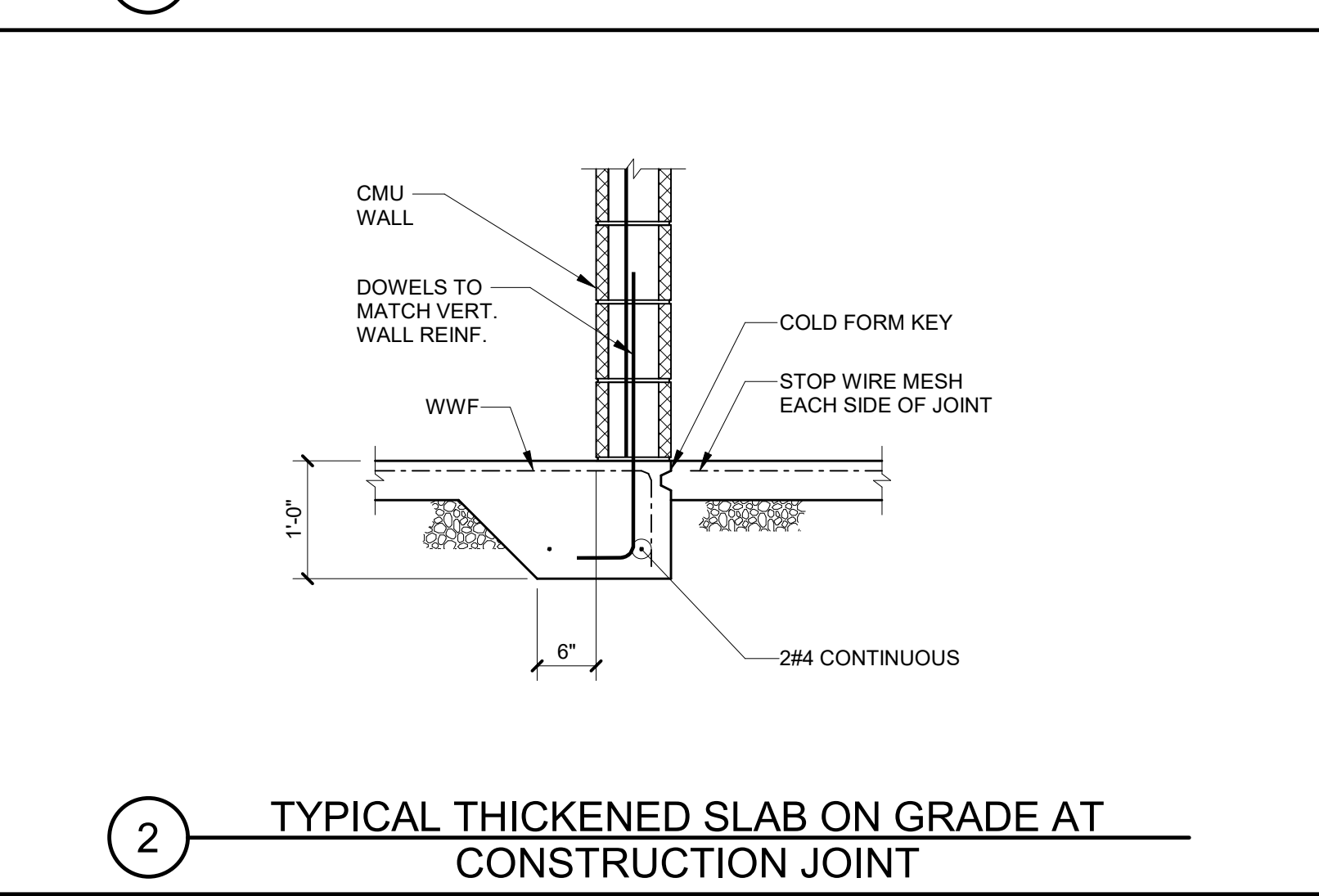
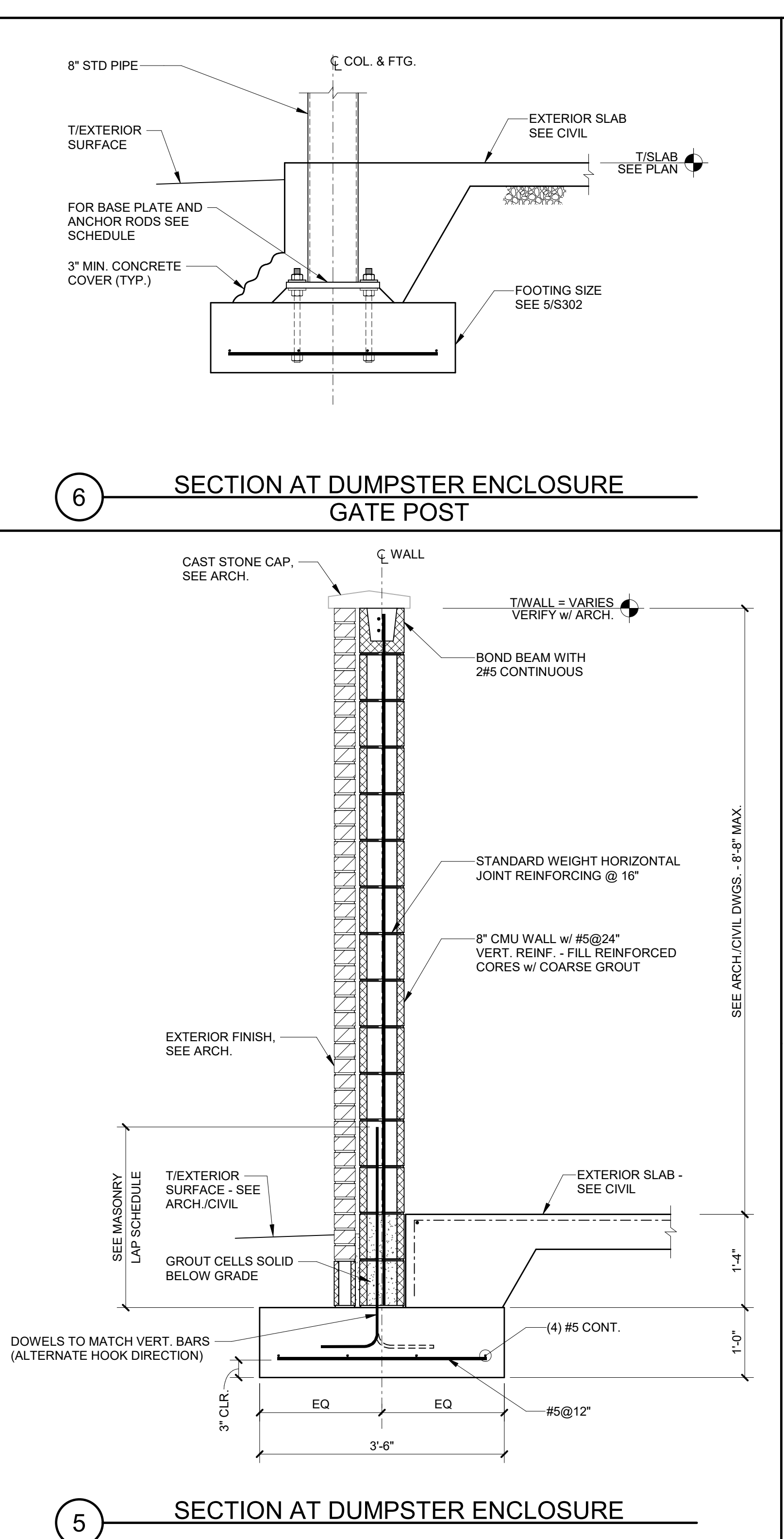
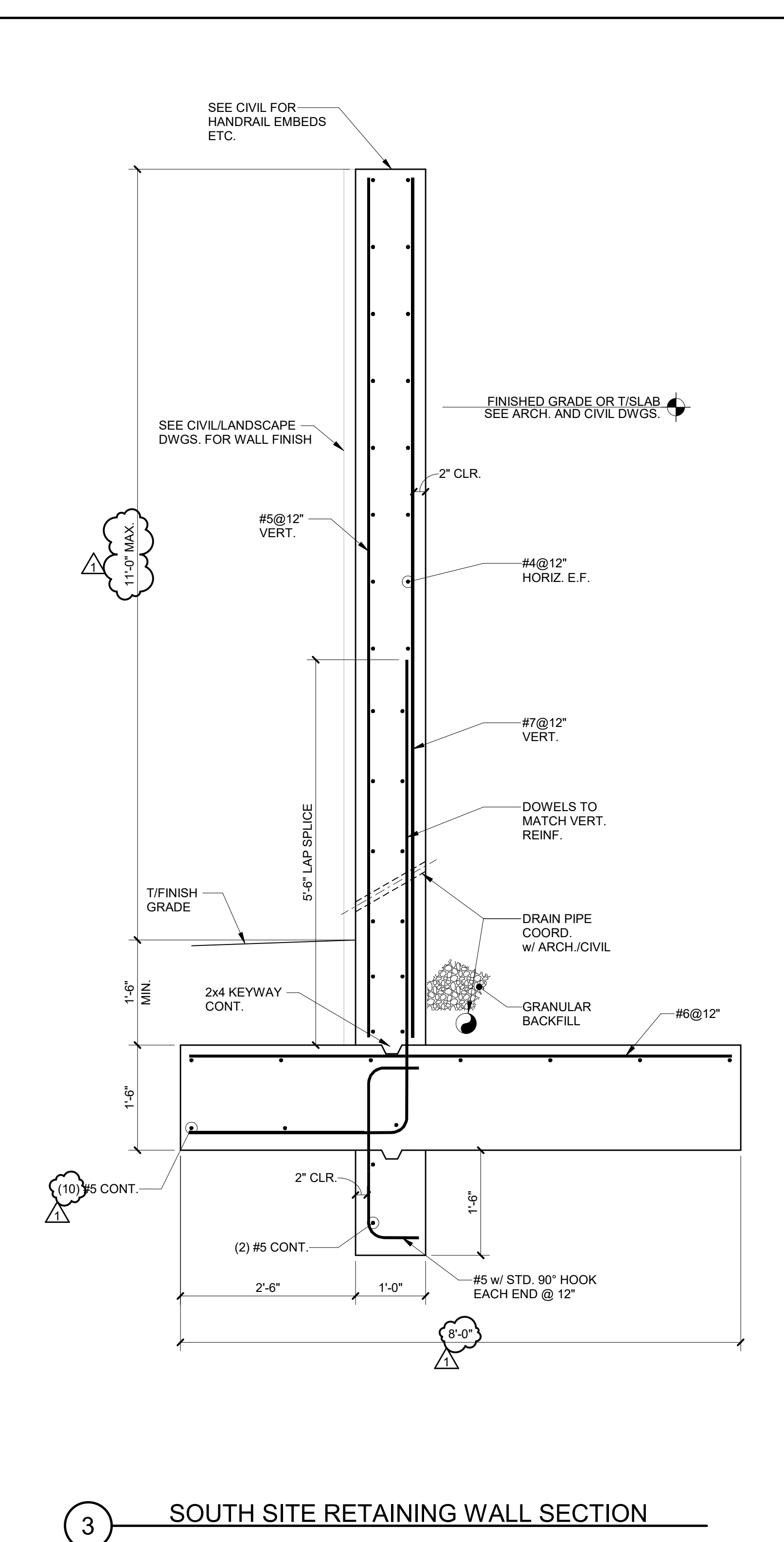


REVISIONS		
1	03/16/23	ADDENDUM 01

DR. BY	JR
CK. BY	BC
PROJ. NO.	A01122
DATE	03/03/23

**MASONRY
SECTIONS AND
DETAILS**

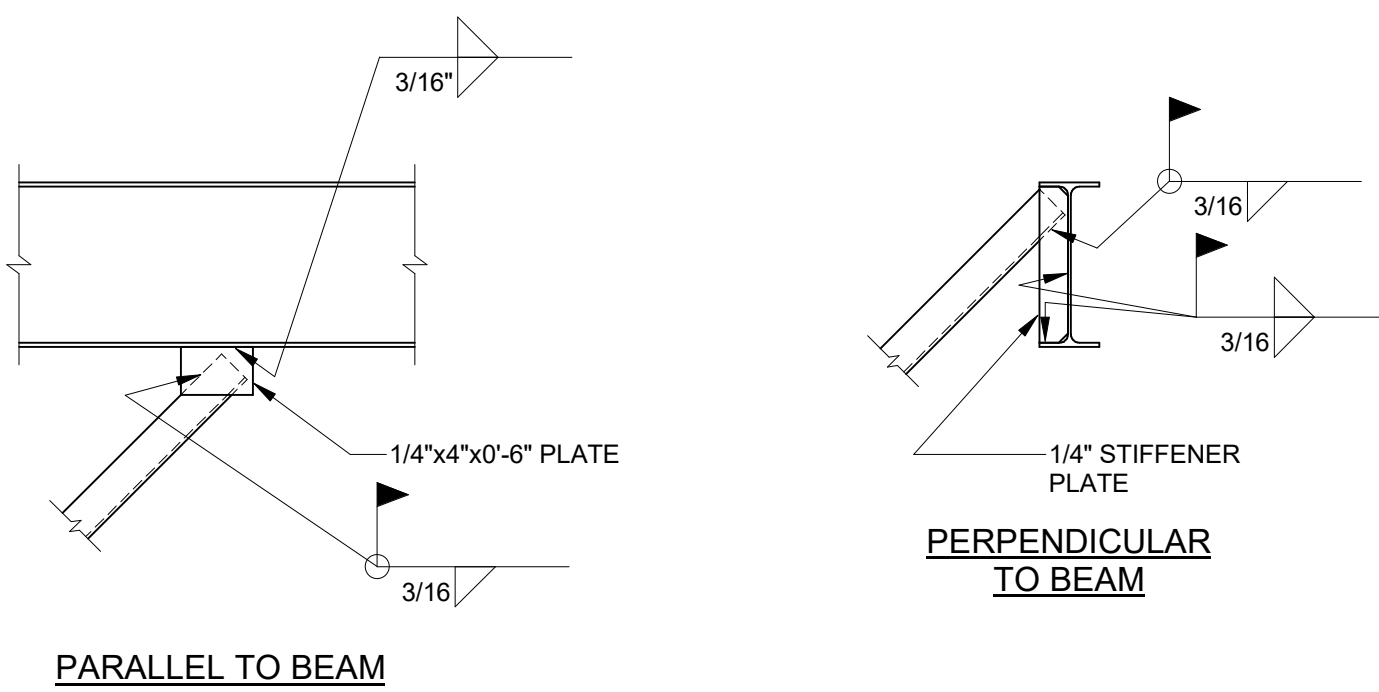
S302



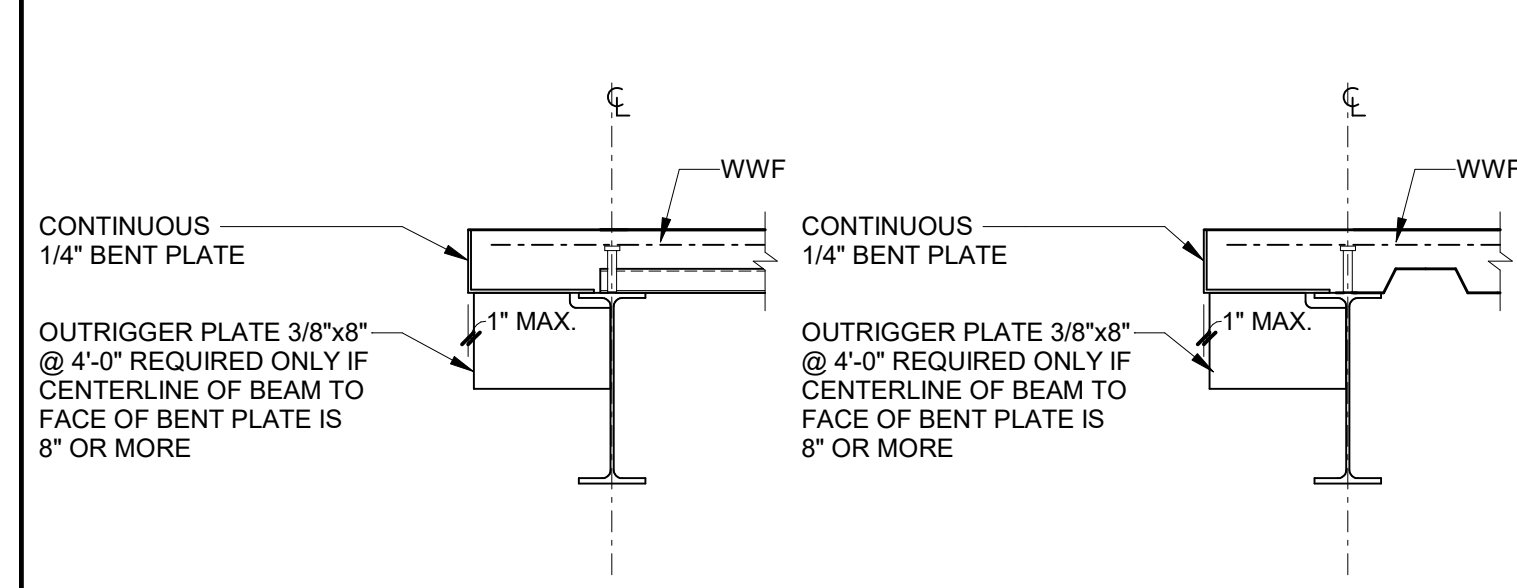
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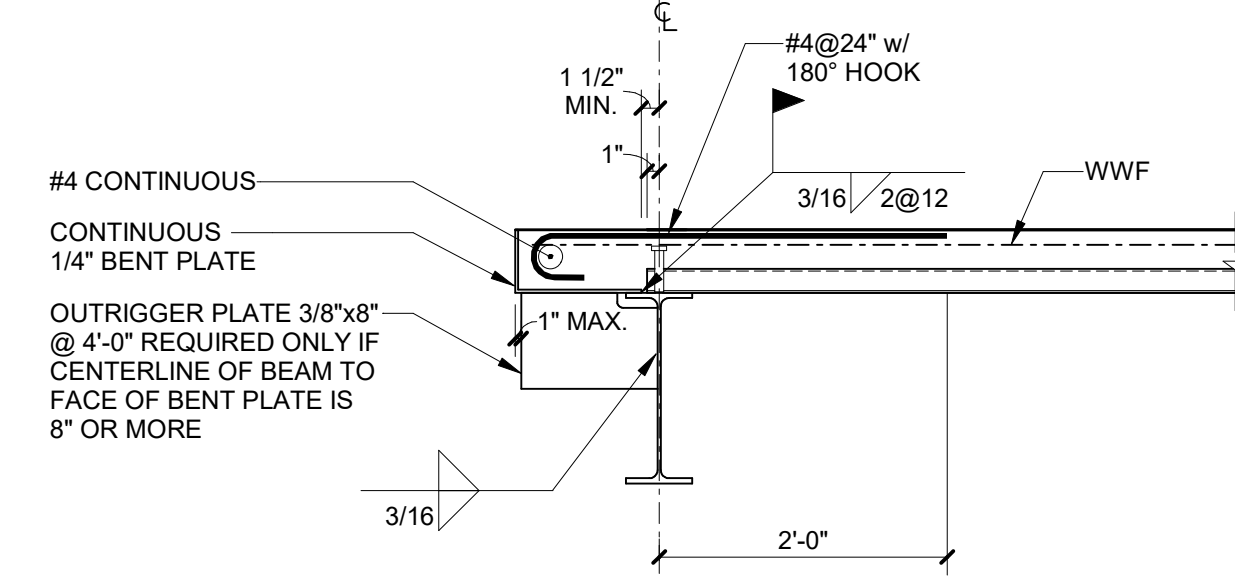
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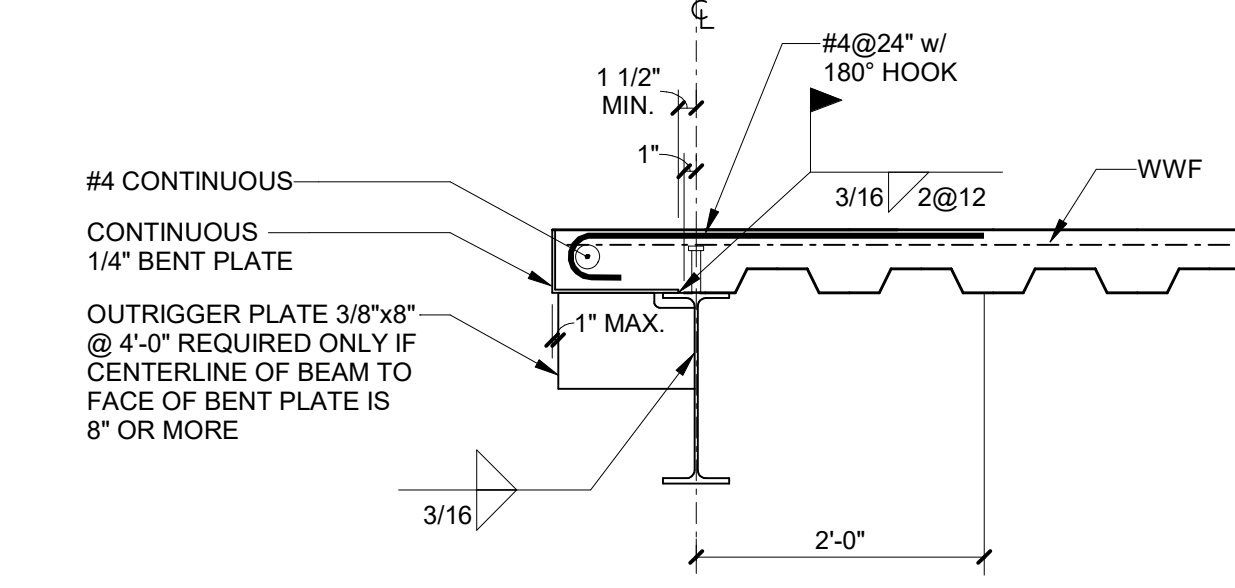
14 TYPICAL KICKER ANCHORAGE AT BEAMS



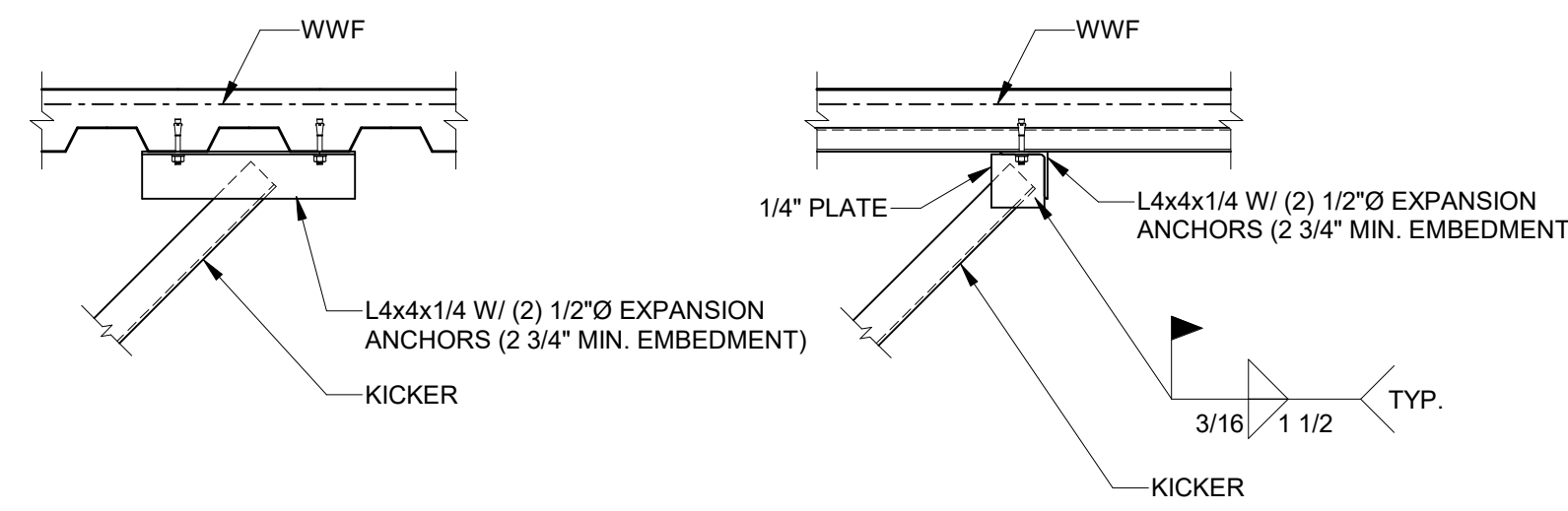
11 TYPICAL SECTION AT SLAB OPENING



8 TYPICAL EXTERIOR BEAM DETAIL

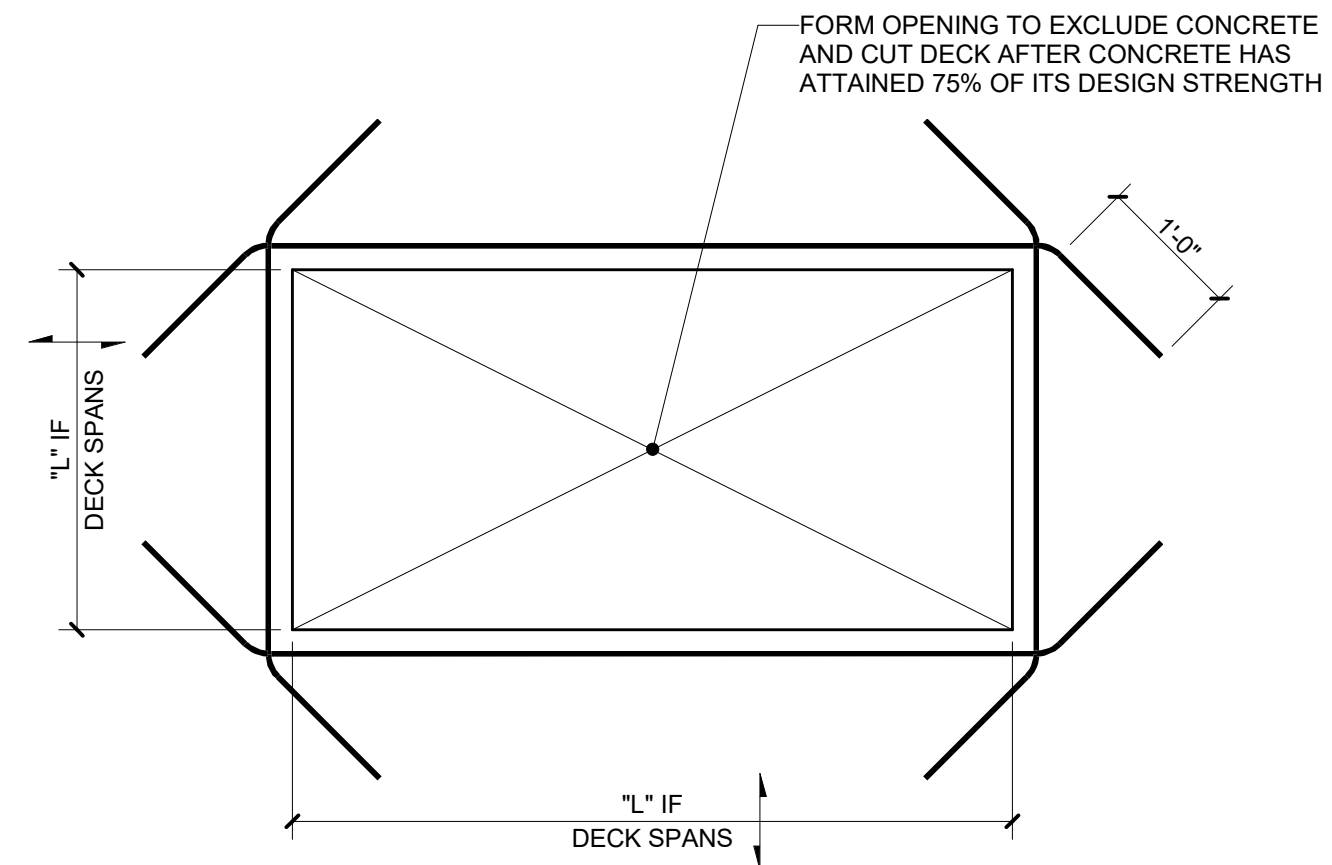


3 TYPICAL EXTERIOR GIRDER DETAIL

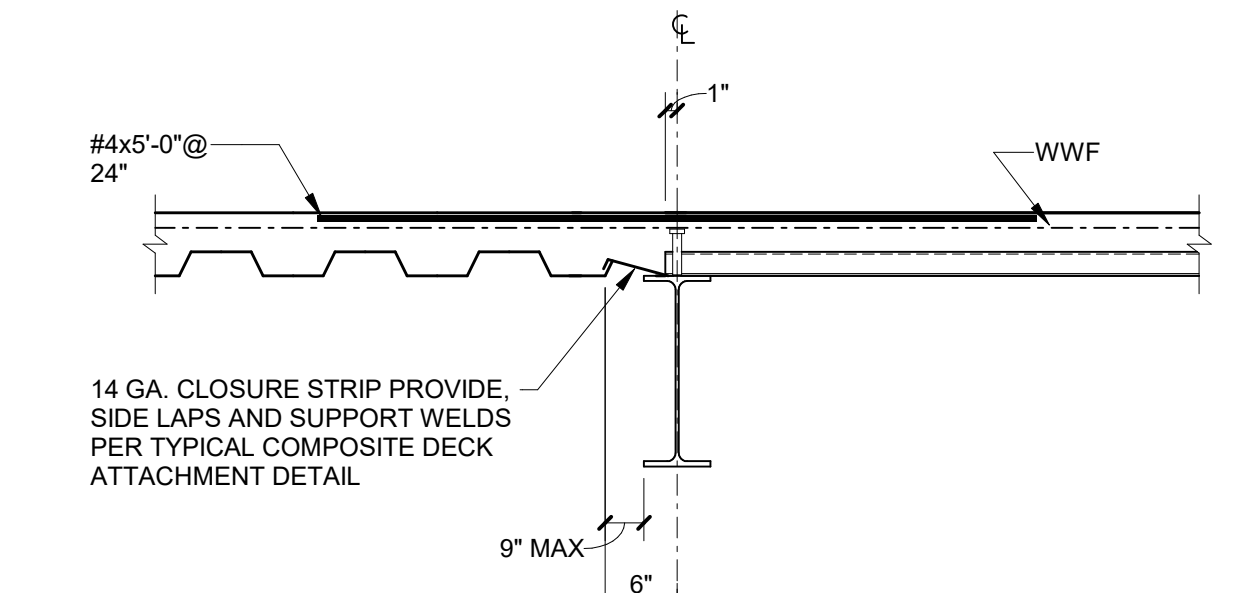


13 TYPICAL KICKER ANCHORAGE DETAIL

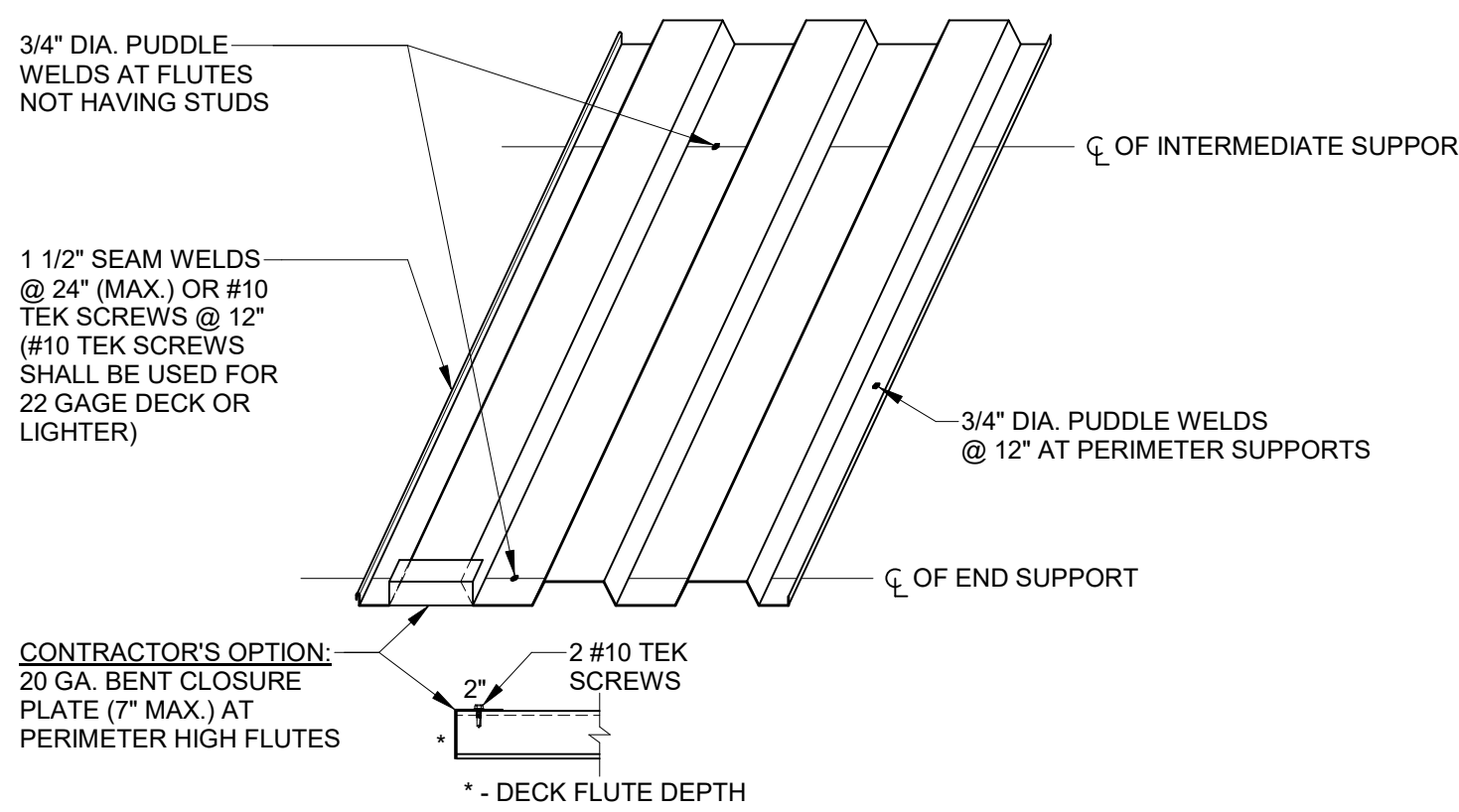
FLOOR OPENING SCHEDULE	
"L"	REINFORCEMENT
TO 10"	NO ADDITIONAL REINFORCING REQUIRED
10" TO 16"	1#4
16" TO 24"	1#5
24" TO 30"	2#5
OVER 30"	REQUIRES STRUCTURAL STEEL FRAME



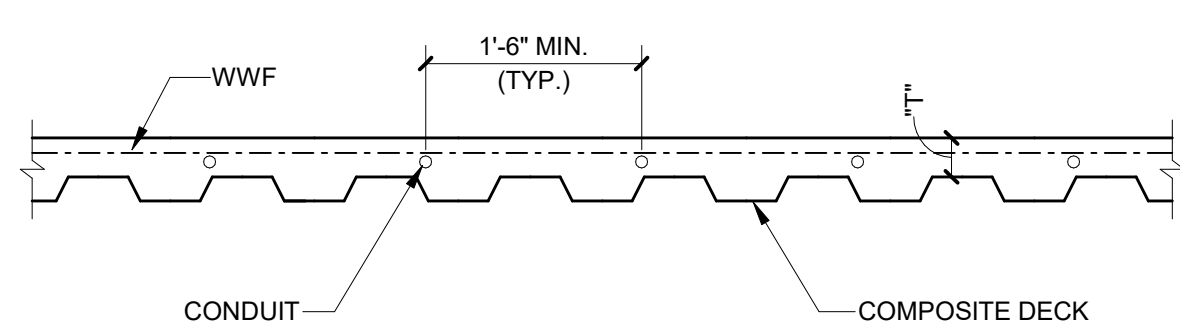
10 TYPICAL FLOOR OPENING REINFORCING DETAIL



7 TYPICAL CLOSURE DETAIL

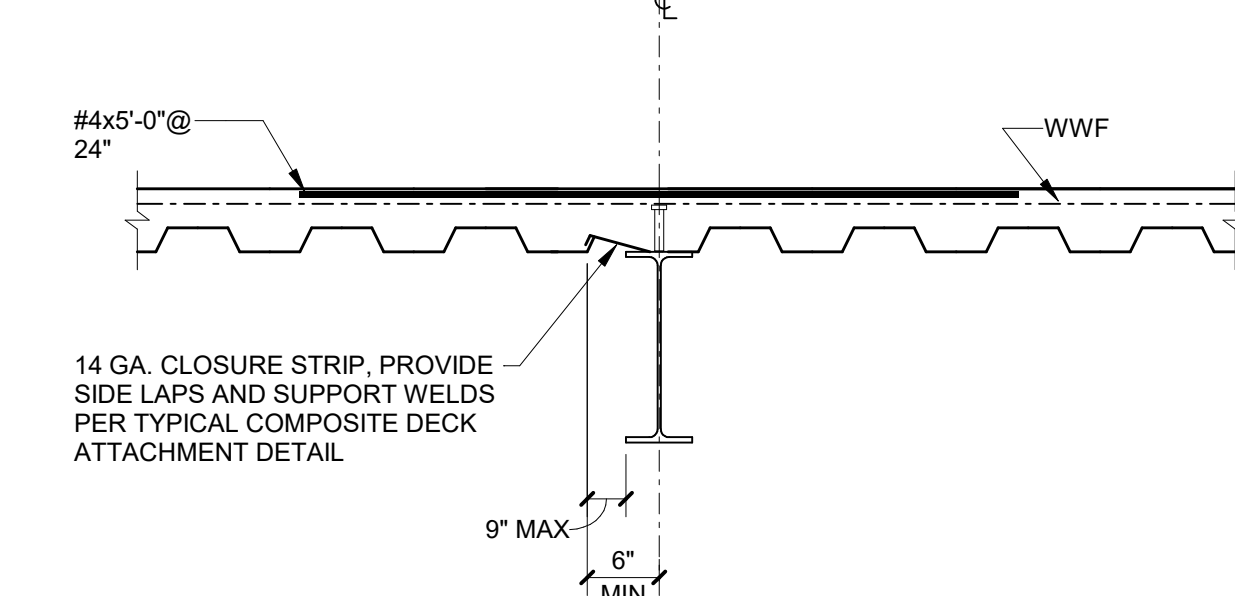


2 TYPICAL COMPOSITE DECK ATTACHMENT

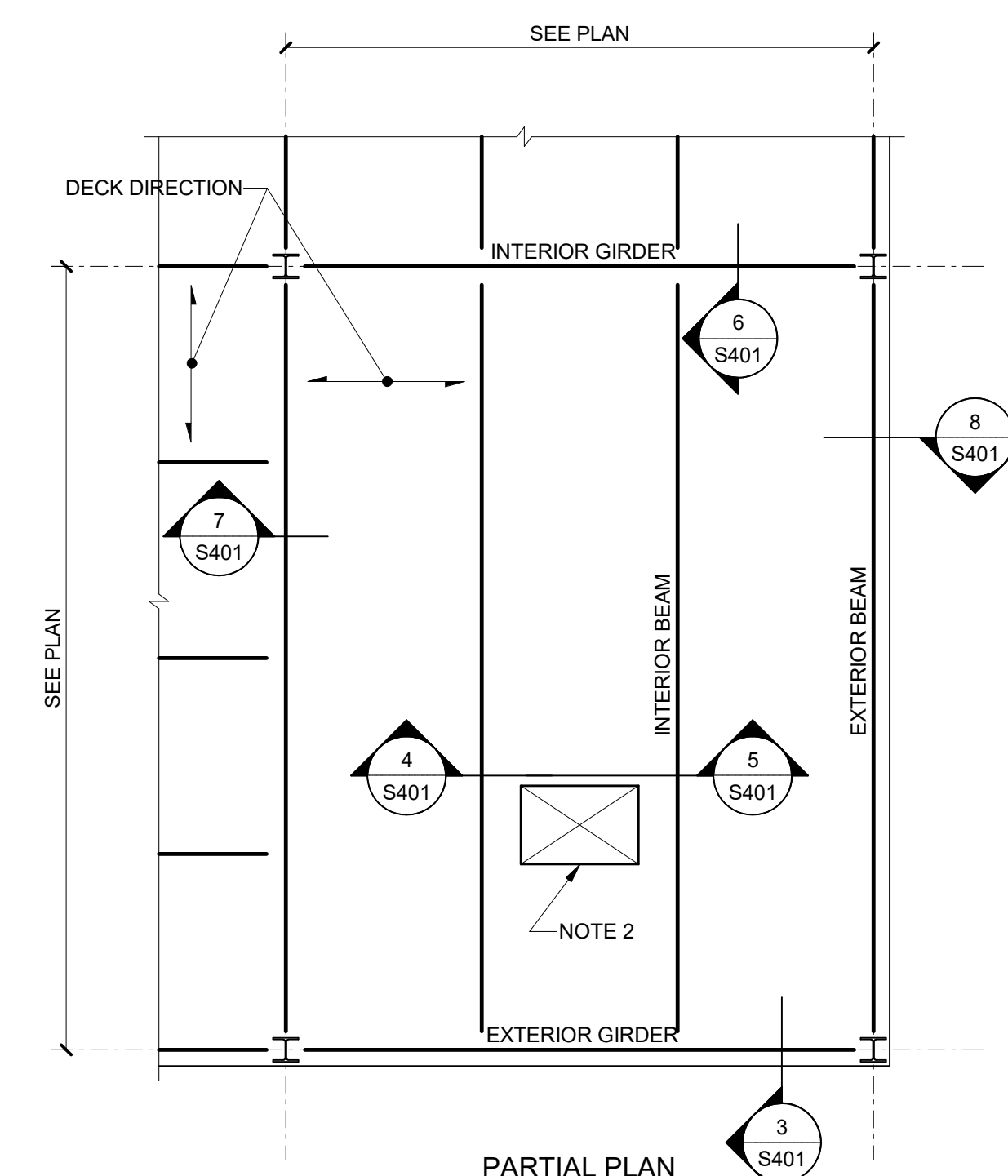


- NOTES:
1. OUTSIDE DIA. OF CONDUIT SHALL NOT EXCEED 1" NOR 1/3 "T".
 2. CROSSOVERS OF CONDUIT ARE NOT PERMITTED.
 3. MAINTAIN 3/4" MINIMUM CLEAR COVER.
 4. CONDUITS GROUPED TOGETHER NEAR JUNCTION BOXES SHALL BE REINFORCED AS SLAB OPENINGS.

12 TYPICAL CONDUIT IN COMPOSITE SLAB DETAIL

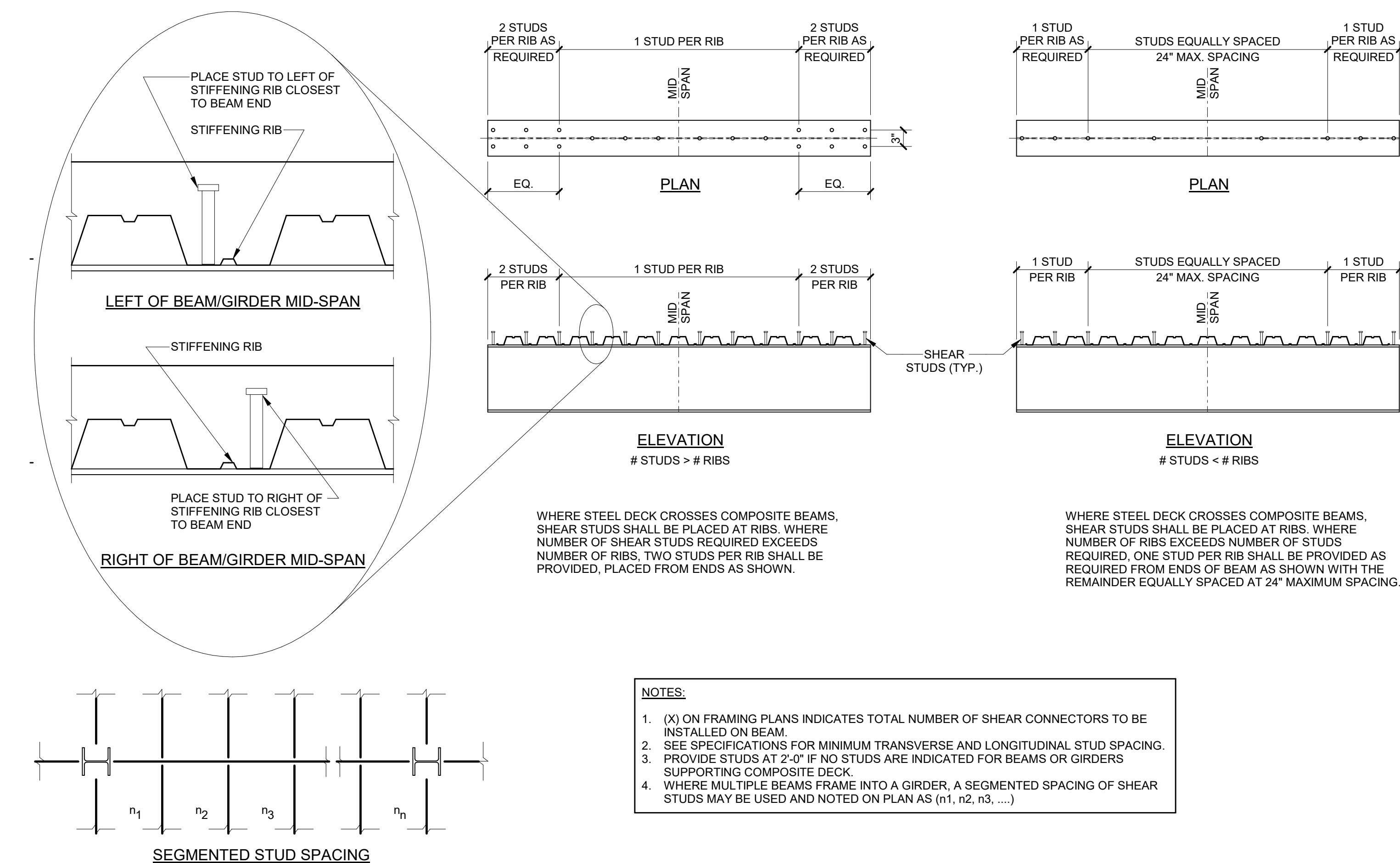


6 TYPICAL CLOSURE DETAIL



- NOTES:
1. FOR TYPICAL DECK ATTACHMENT, SEE DETAIL 2/S401
 2. FOR TYPICAL DETAILS AT UN-FRAMED AND FRAMED OPENINGS, SEE DETAILS 10/S401 & 11/S401
 3. FOR STUD SPACING/PLACEMENT, SEE DETAIL 9/S401

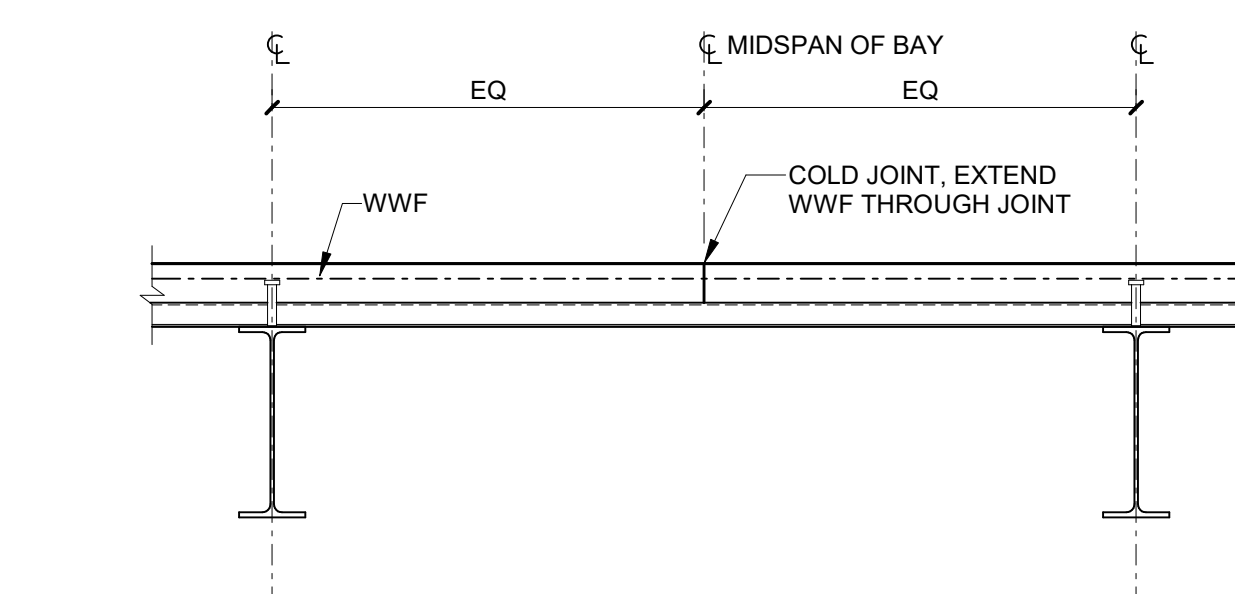
1 TYPICAL COMPOSITE FLOOR CONSTRUCTION



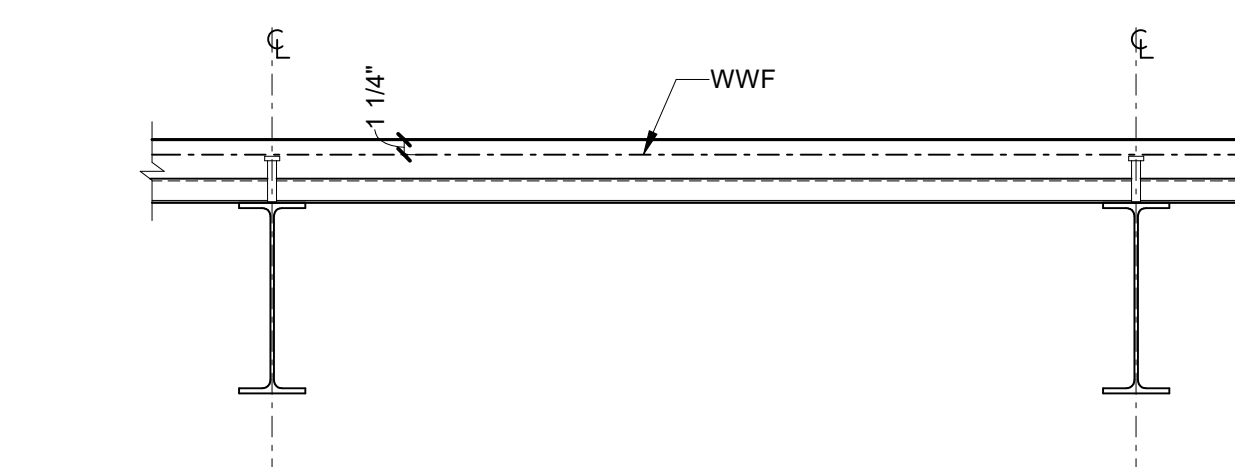
WHERE STEEL DECK CROSSES COMPOSITE BEAMS, SHEAR STUDS SHALL BE PLACED AT RIBS. WHERE NUMBER OF RIBS EXCEEDS NUMBER OF STUDS REQUIRED, ONE STUD PER RIB SHALL BE PROVIDED AS REQUIRED FROM ENDS OF BEAM AS SHOWN WITH THE REMAINDER EQUALLY SPACED AT 24" MAXIMUM SPACING.

- NOTES:
1. (X) ON FRAMING PLANS INDICATES TOTAL NUMBER OF SHEAR CONNECTORS TO BE INSTALLED ON BEAM
 2. SEE SPECIFICATIONS FOR MINIMUM TRANSVERSE AND LONGITUDINAL STUD SPACING. PROVIDE STUDS AT 2'-0" IF NO STUDS ARE INDICATED FOR BEAMS OR GIRDERS SUPPORTING COMPOSITE DECK.
 3. WHERE MULTIPLE BEAMS FRAME INTO A GIRDER, A SEGMENTED SPACING OF SHEAR STUDS MAY BE USED AND NOTED ON PLAN AS (n1, n2, n3, ...)

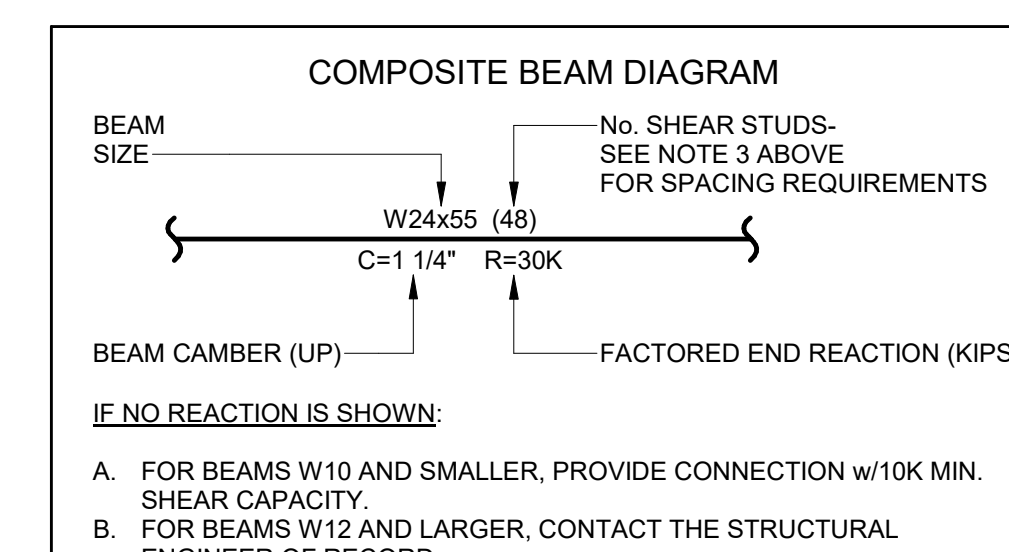
9 TYP. BEAM STUD SPACING/PLACEMENT DETAIL



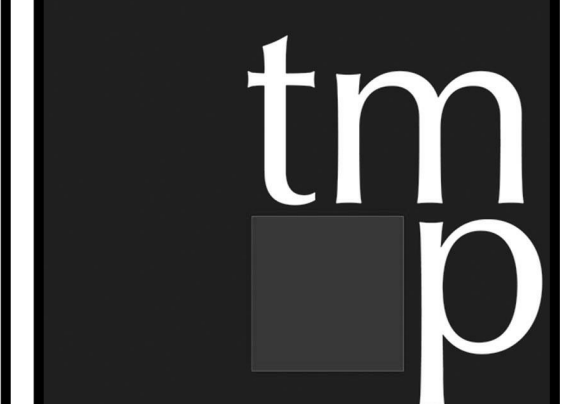
5 TYPICAL SECTION THROUGH COMPOSITE SLAB AT CONSTRUCTION JOINT



4 TYPICAL SECTION THROUGH COMPOSITE SLAB



- IF NO REACTION IS SHOWN:
- A. FOR BEAMS W10 AND SMALLER, PROVIDE CONNECTION w/10K MIN. SHEAR CAPACITY.
 - B. FOR BEAMS W12 AND LARGER, CONTACT THE STRUCTURAL ENGINEER OF RECORD.



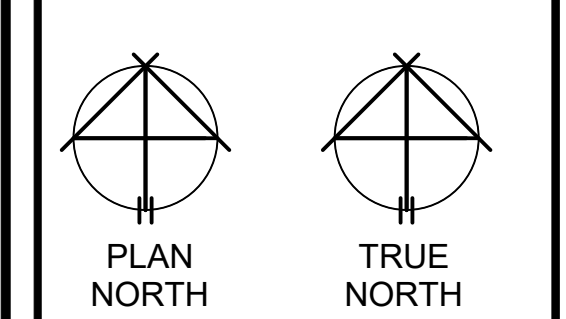
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Architecture Interiors Planning

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Project No. 22027.00
COA No. 1329

TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



REVISIONS	

DR. BY JR
CK. BY BC
PROJ. NO. A01122
DATE 03/03/23
FRAMING SECTIONS AND DETAILS

S401

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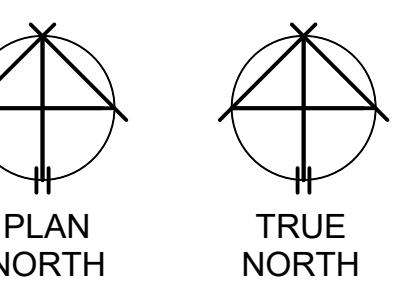
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Building 1, Suite 175
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Project No. 22027.00
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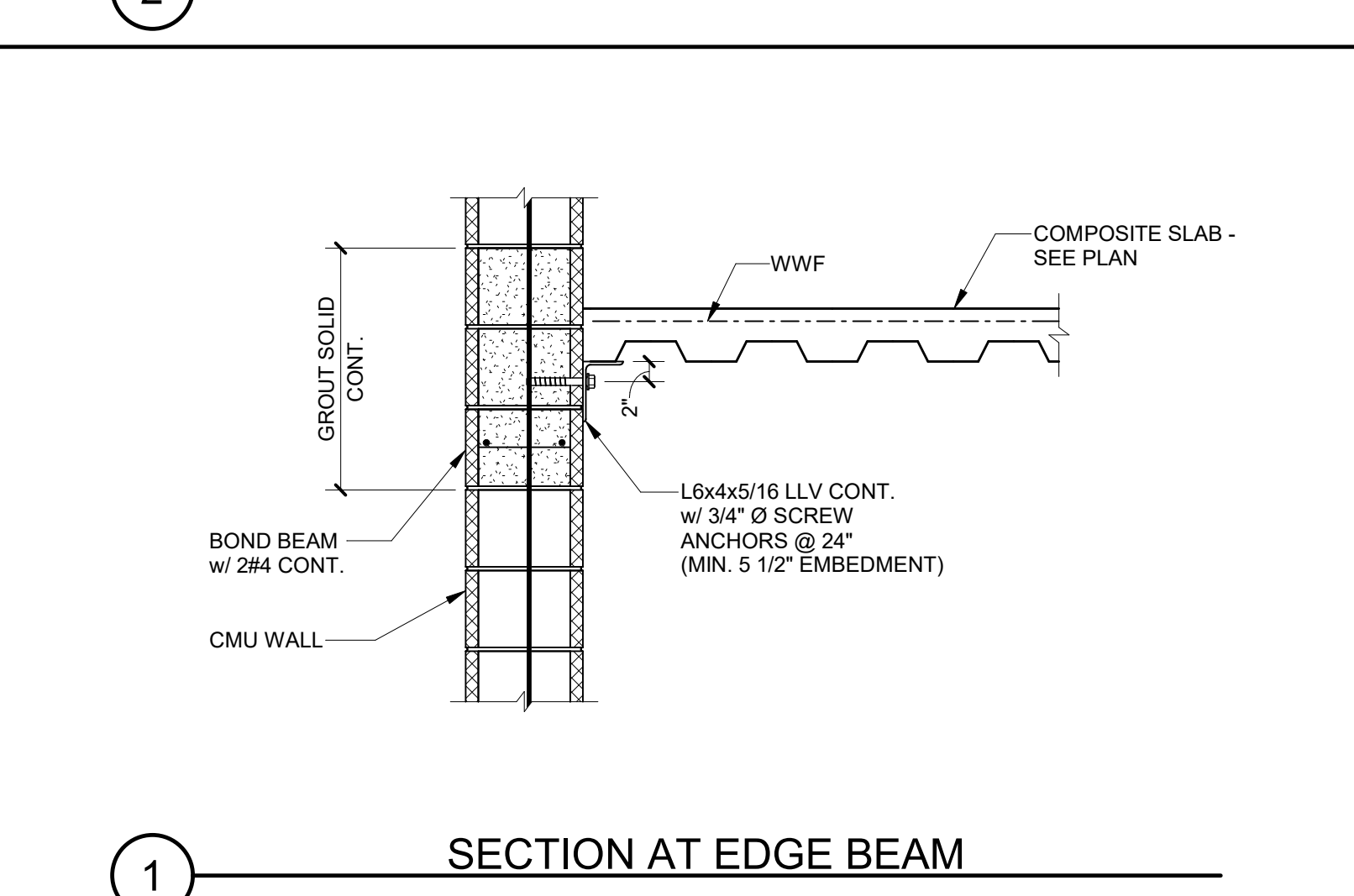
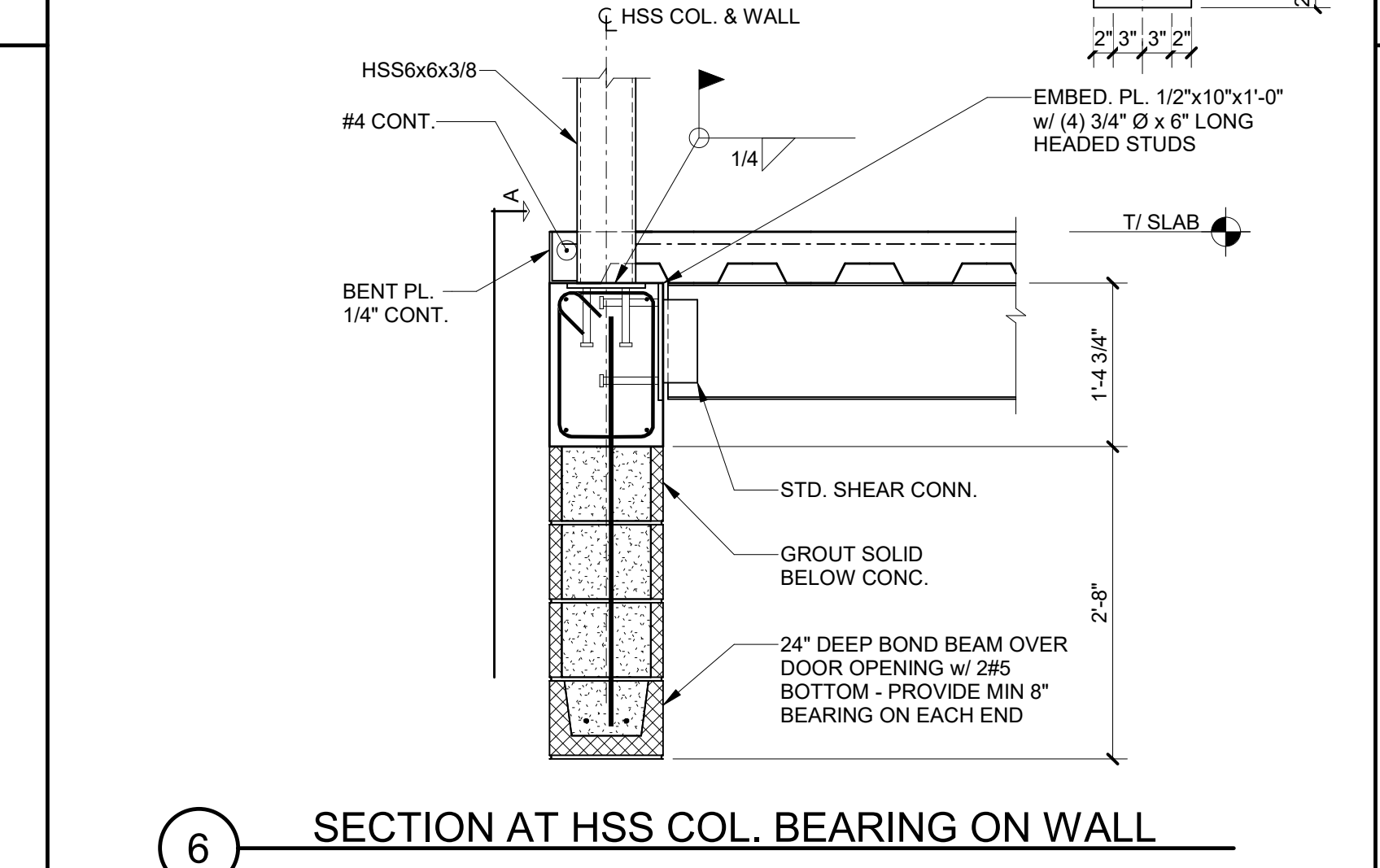
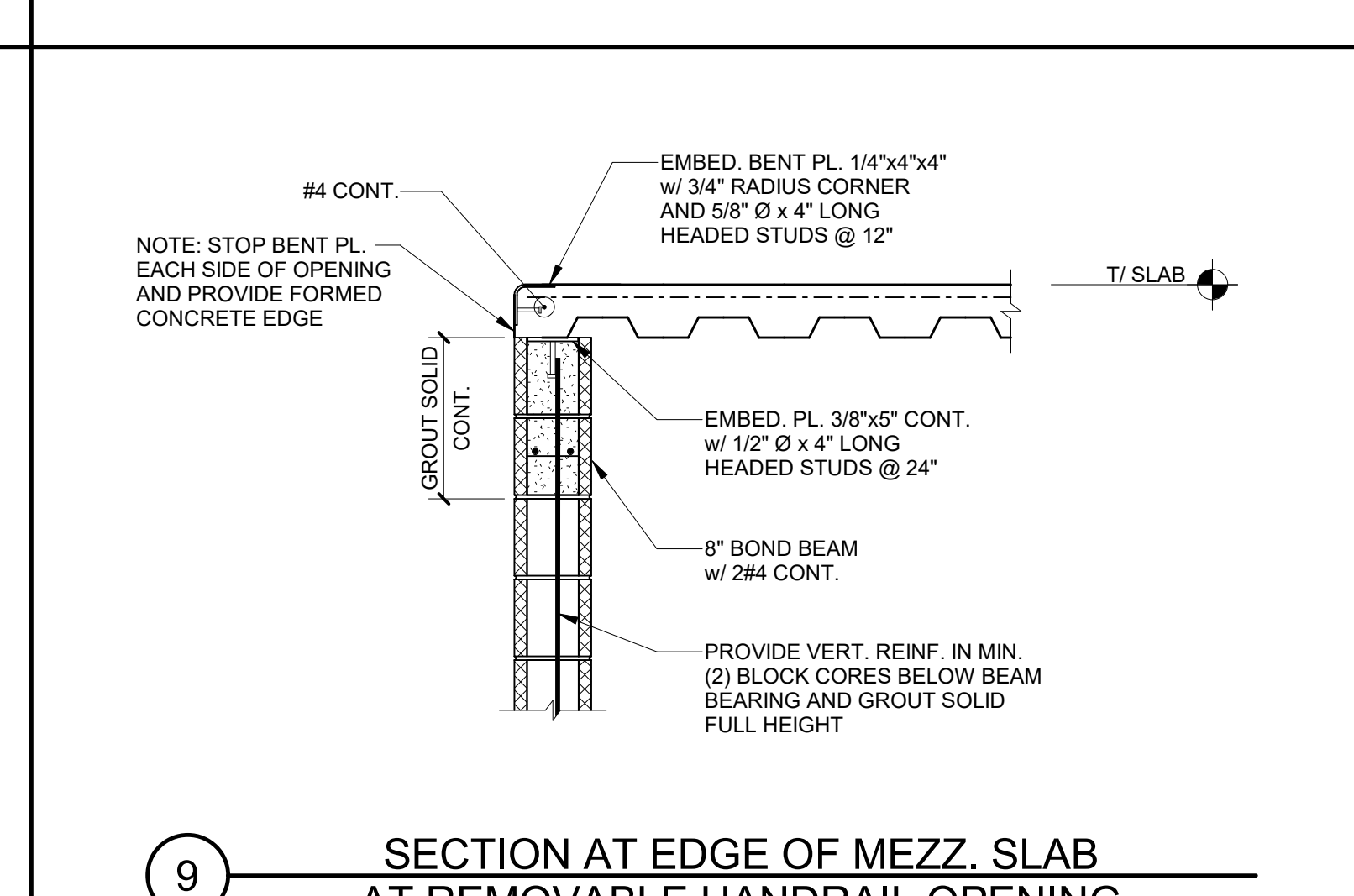
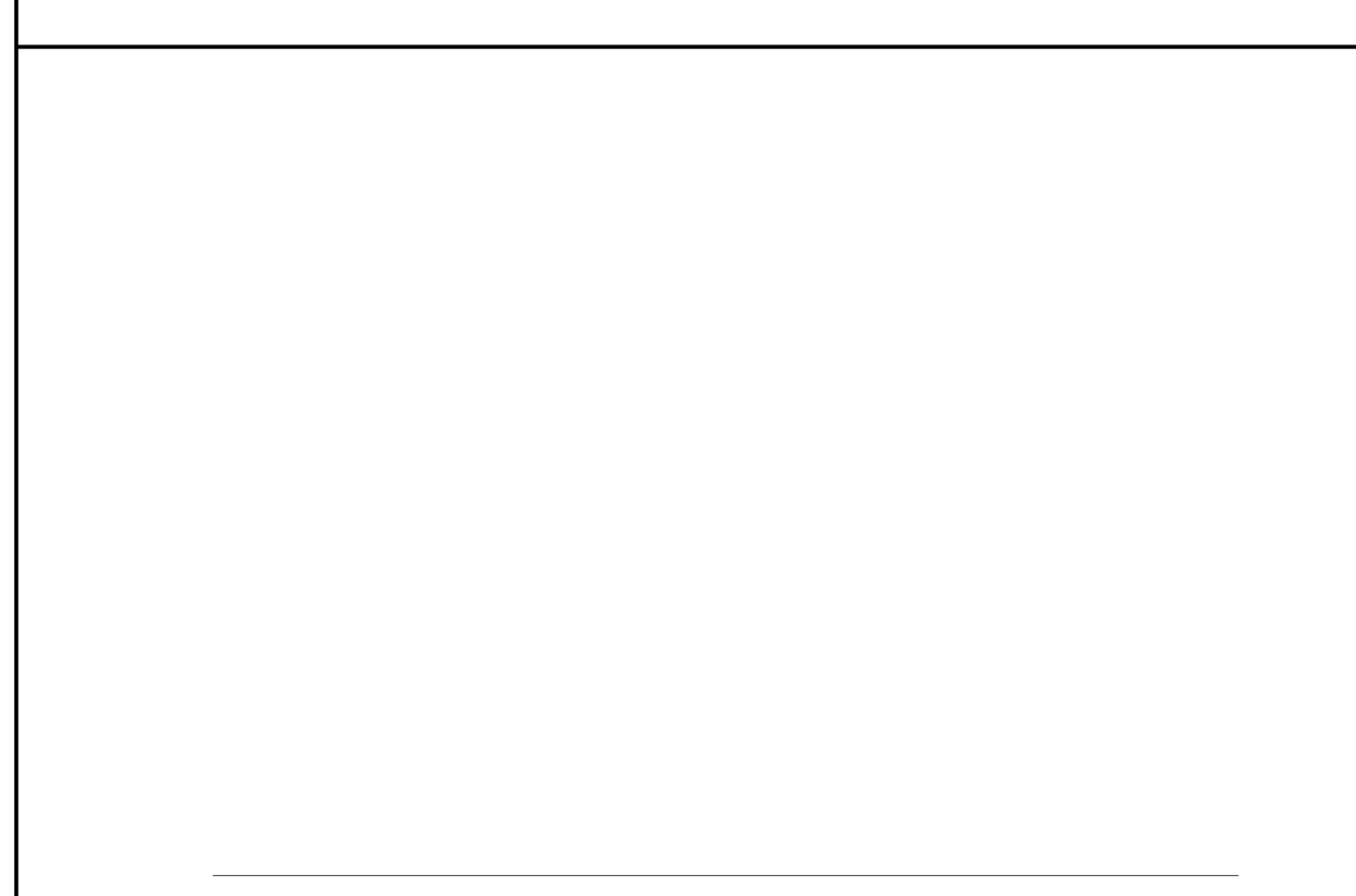
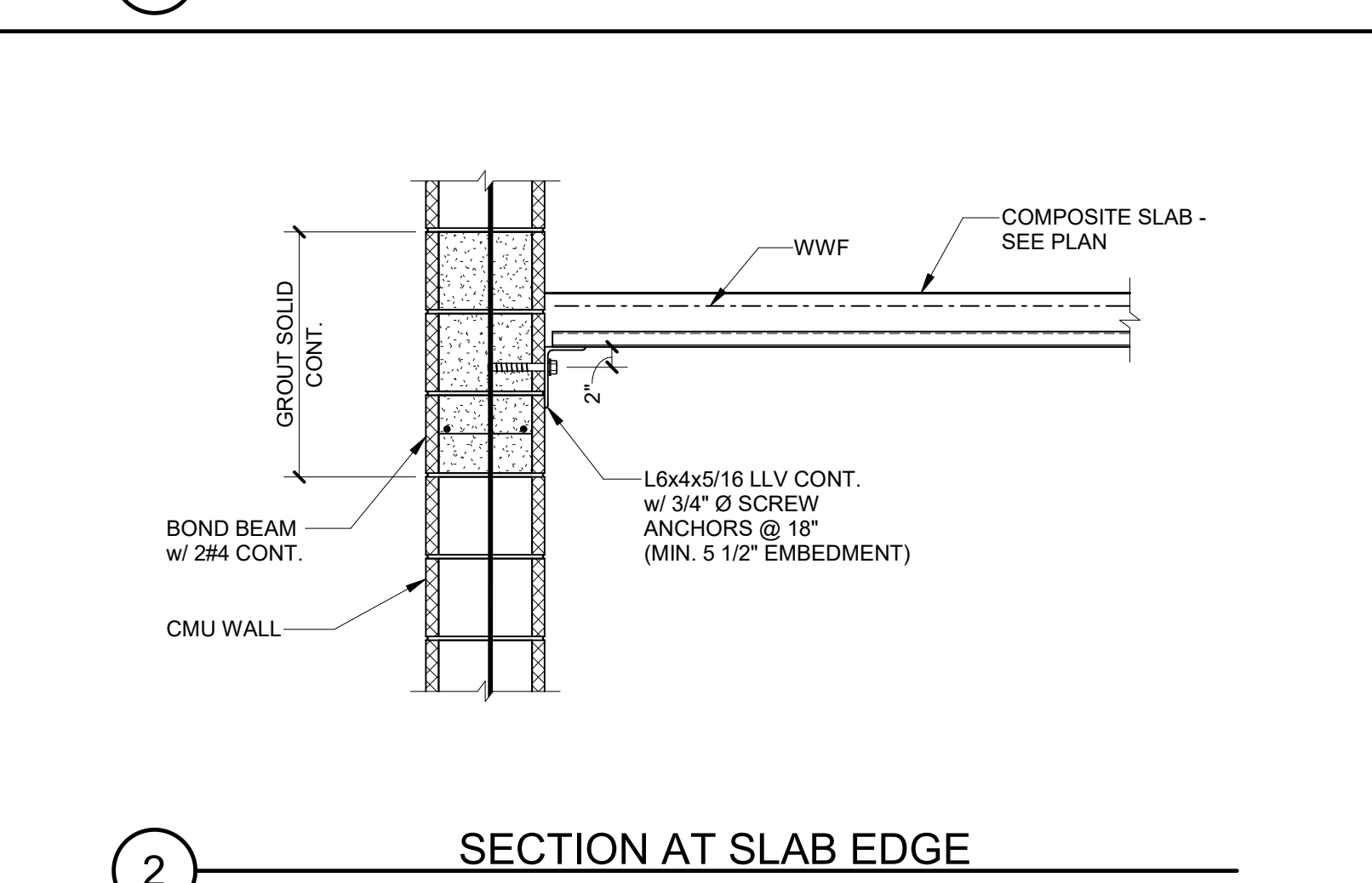
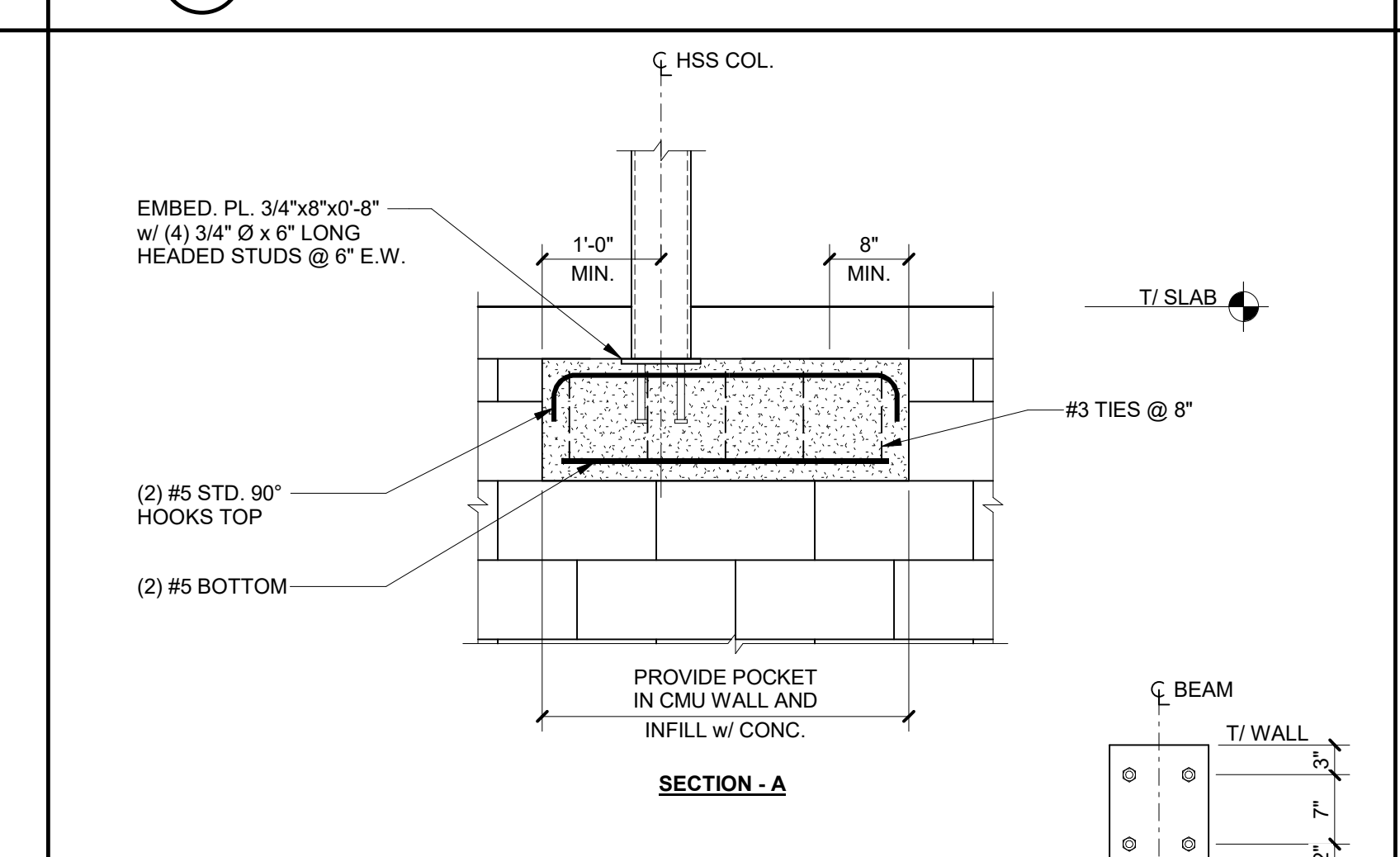
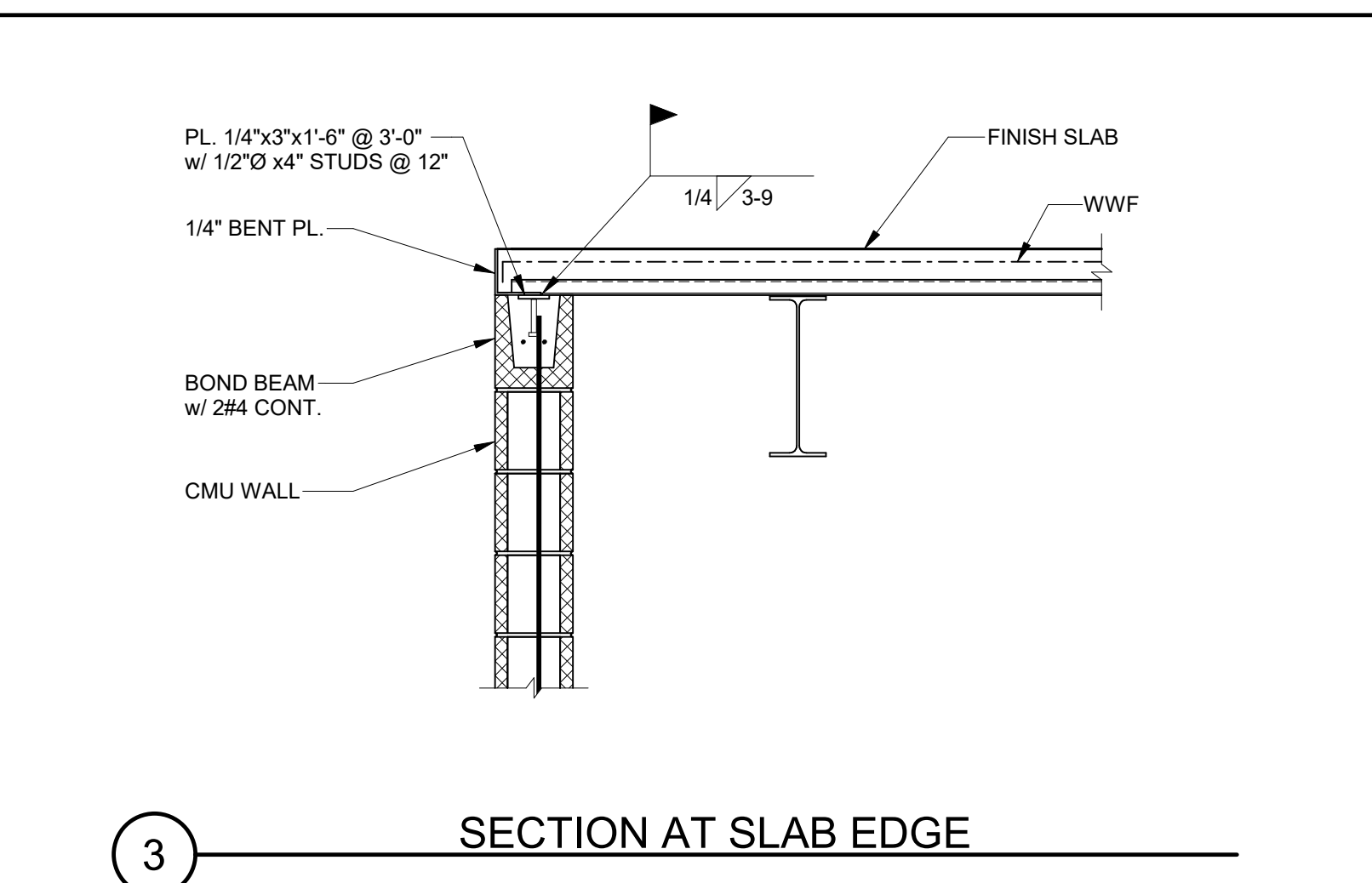
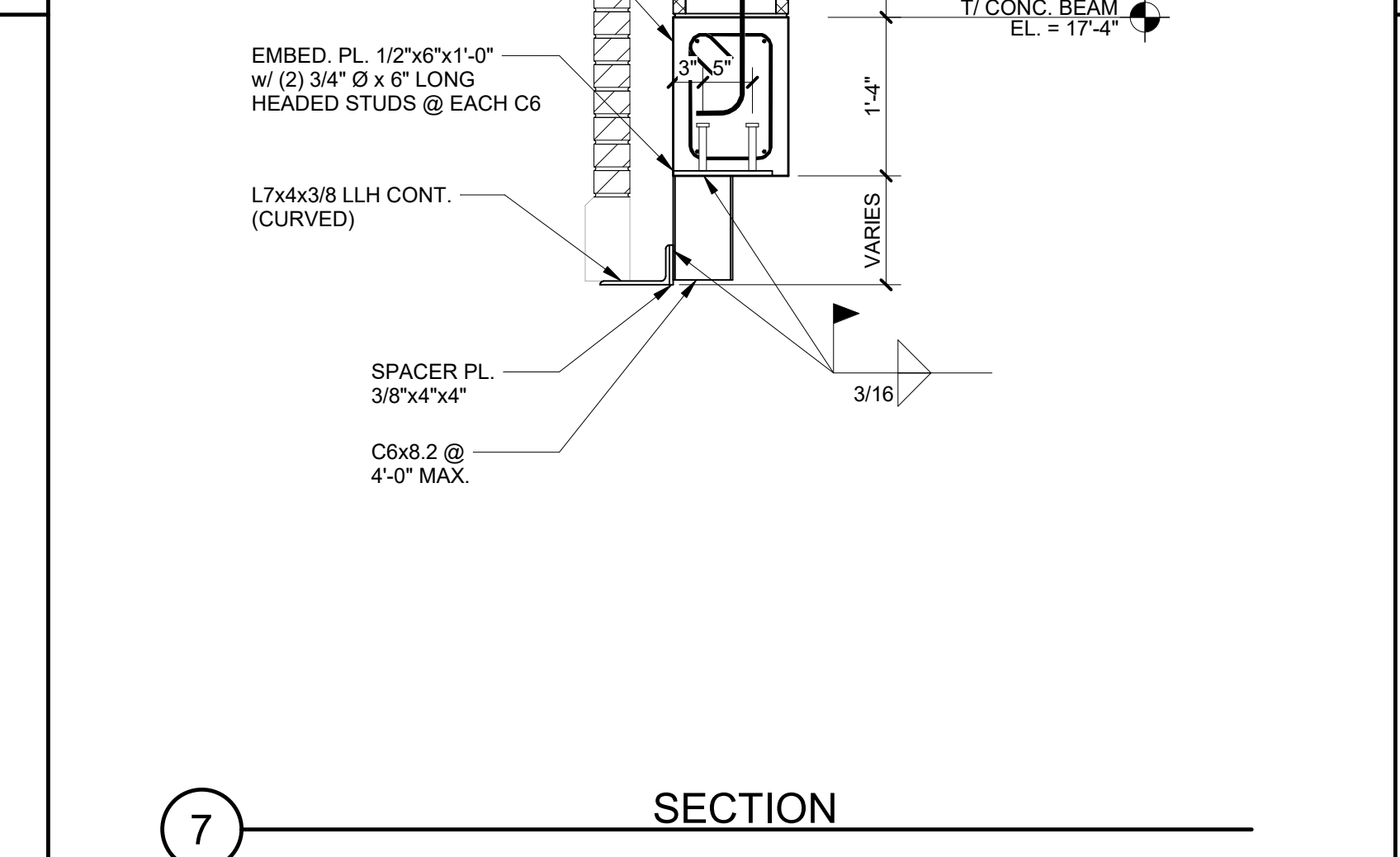
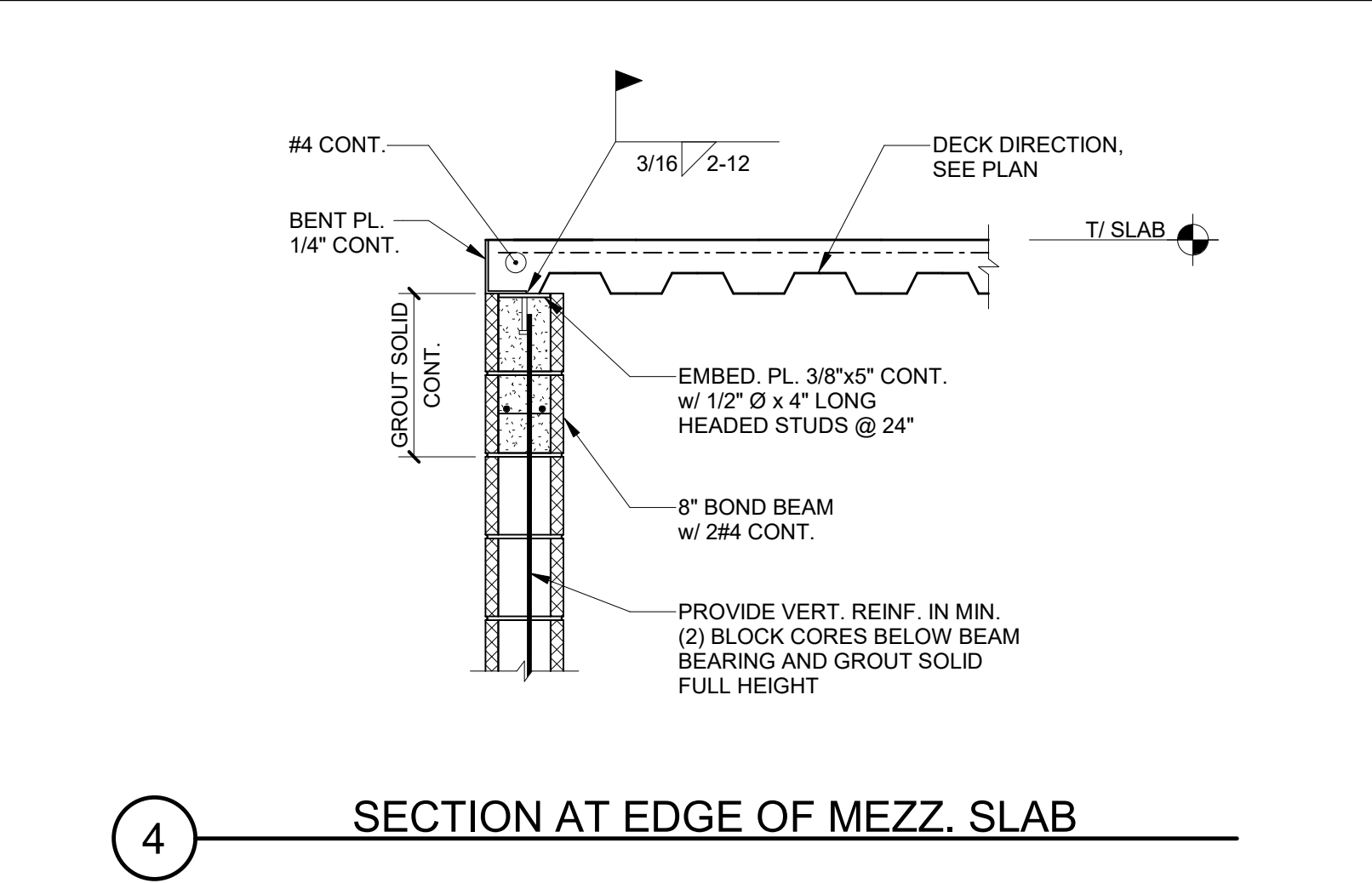
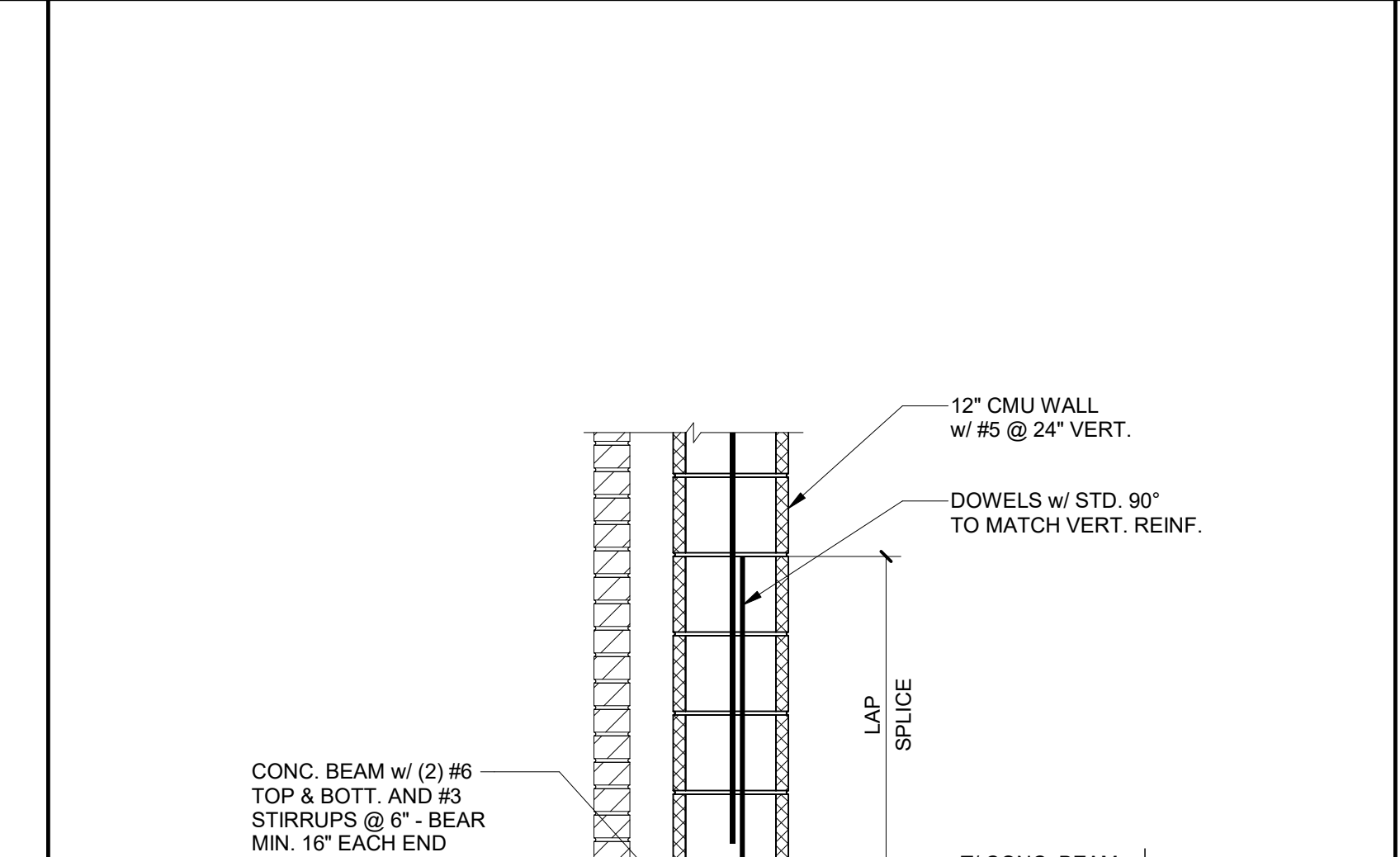
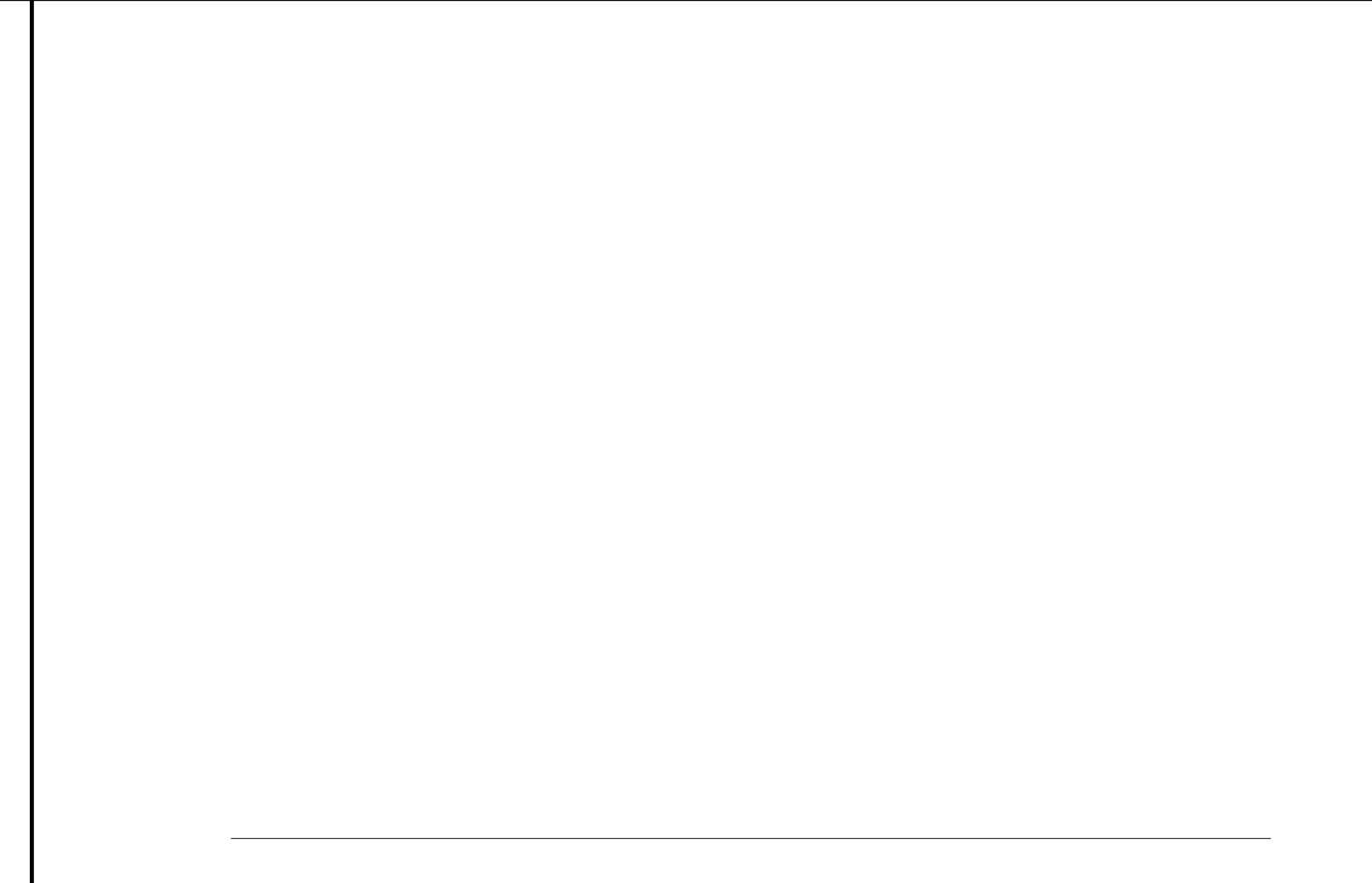
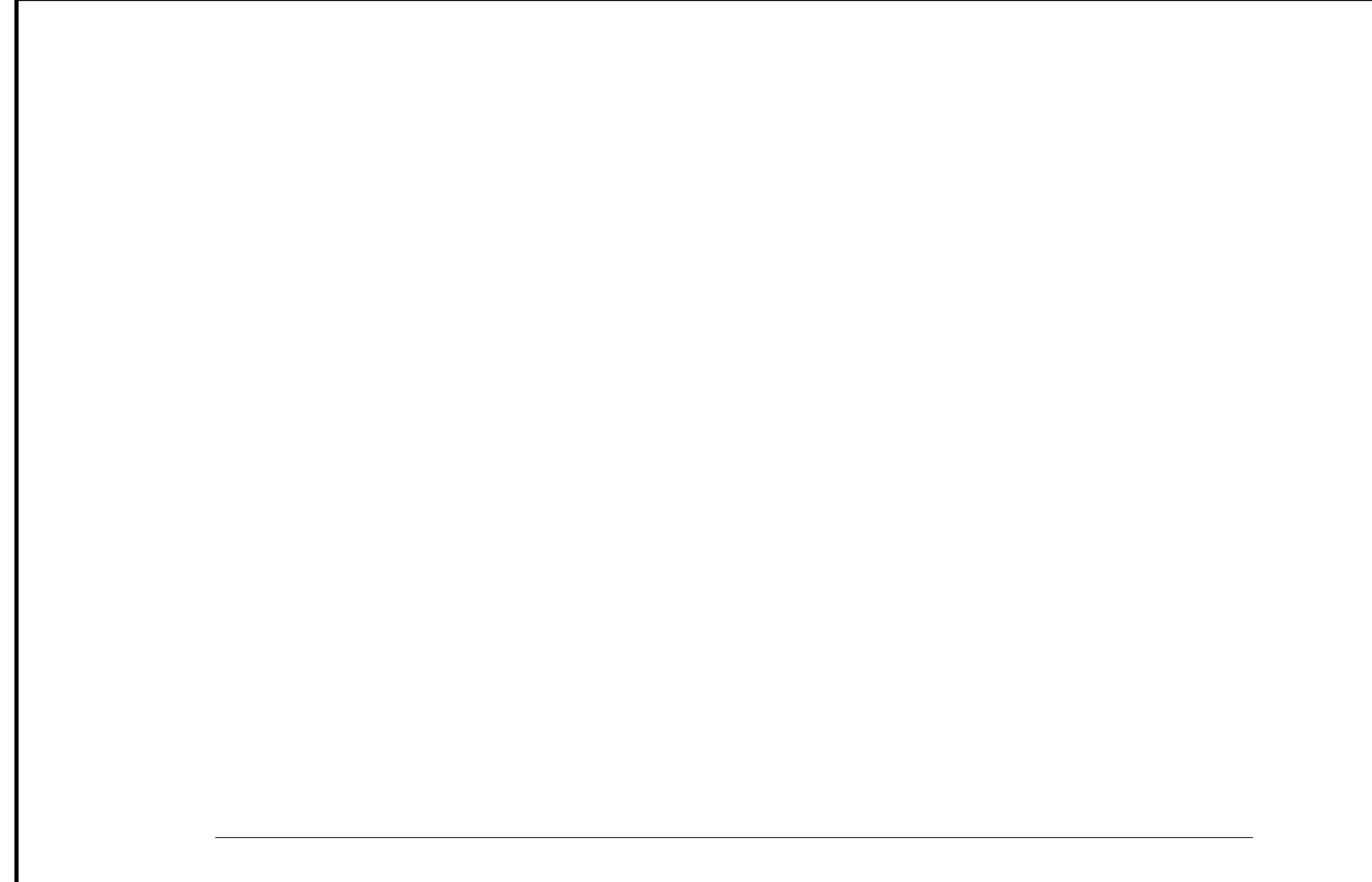
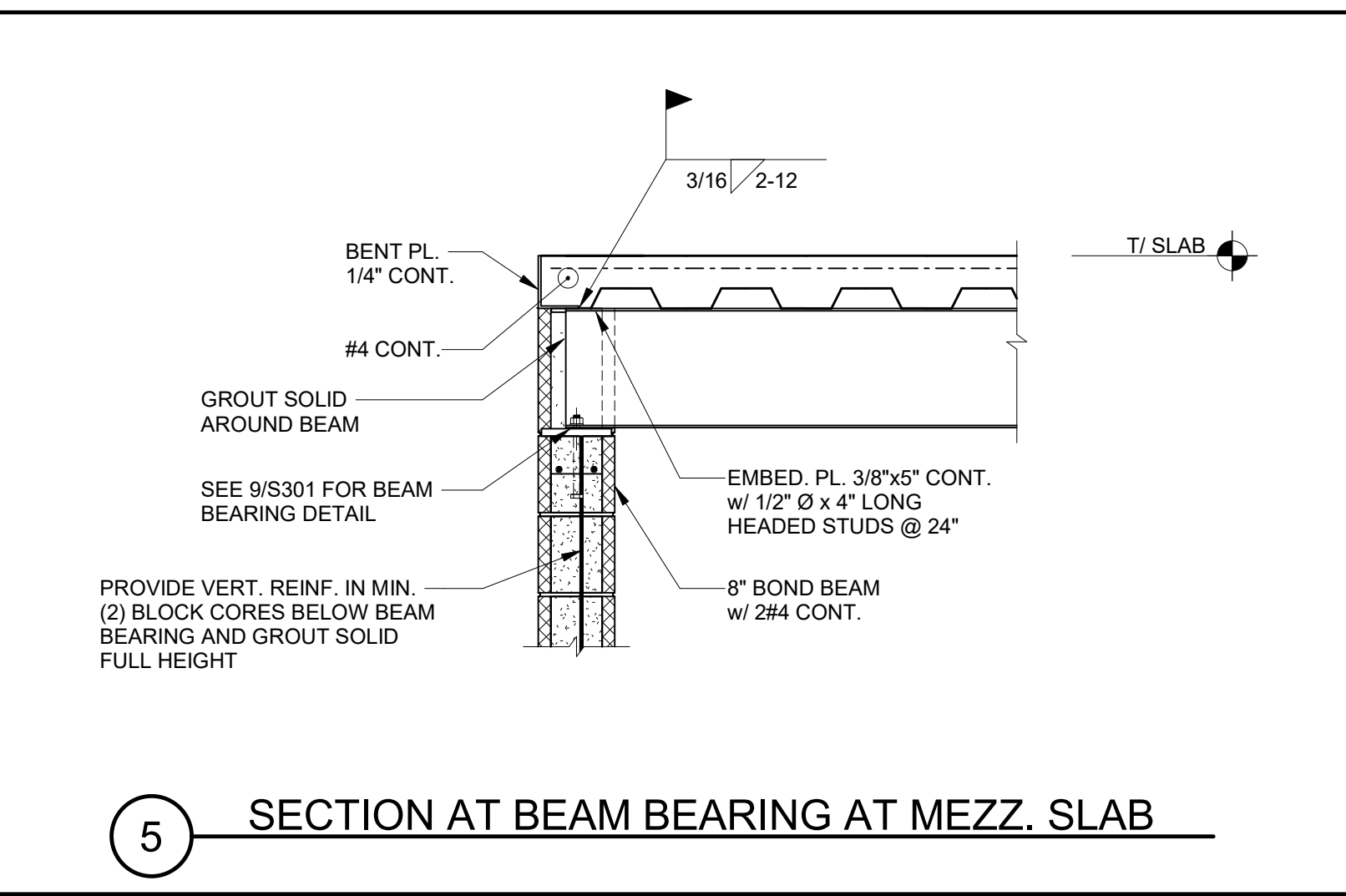
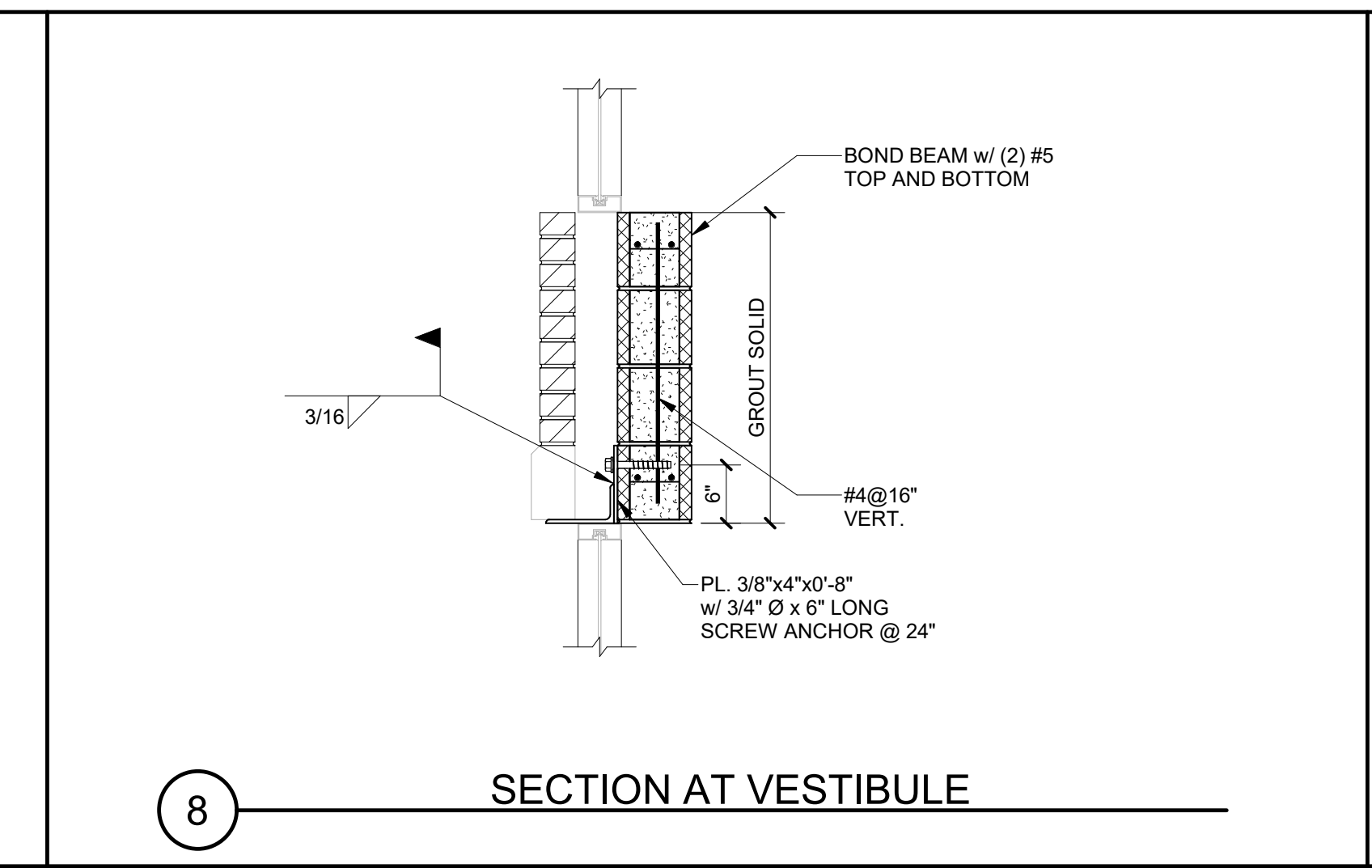
TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE

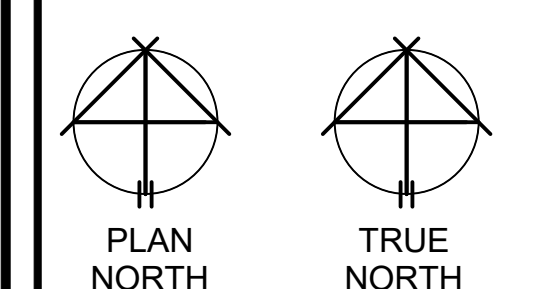
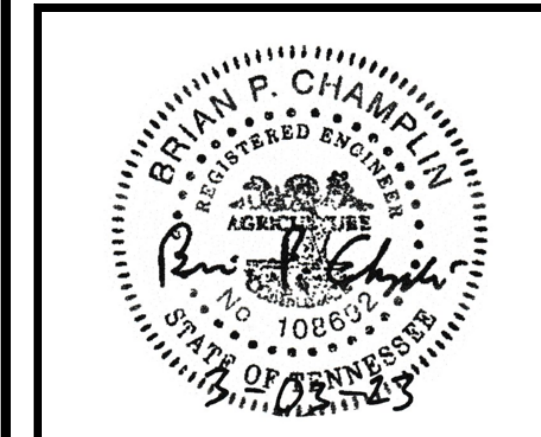


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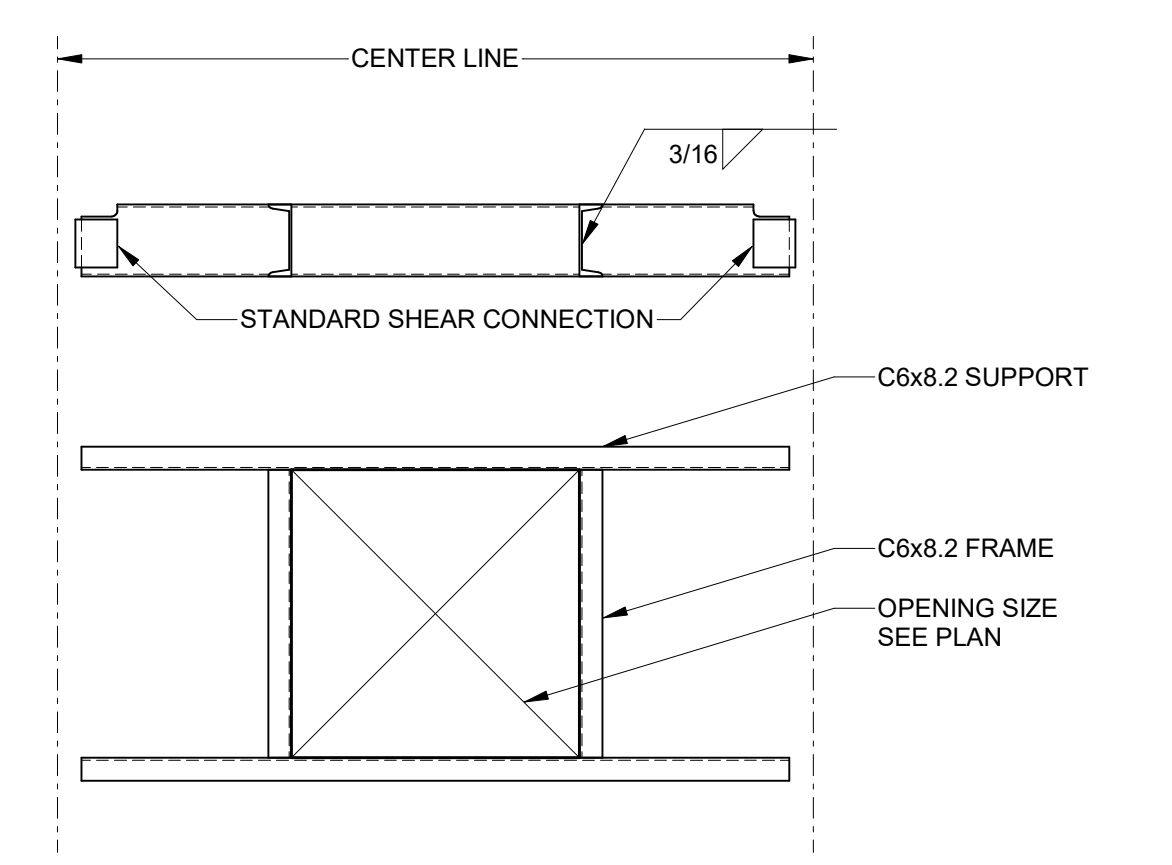
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SECTIONS AND
DETAILS



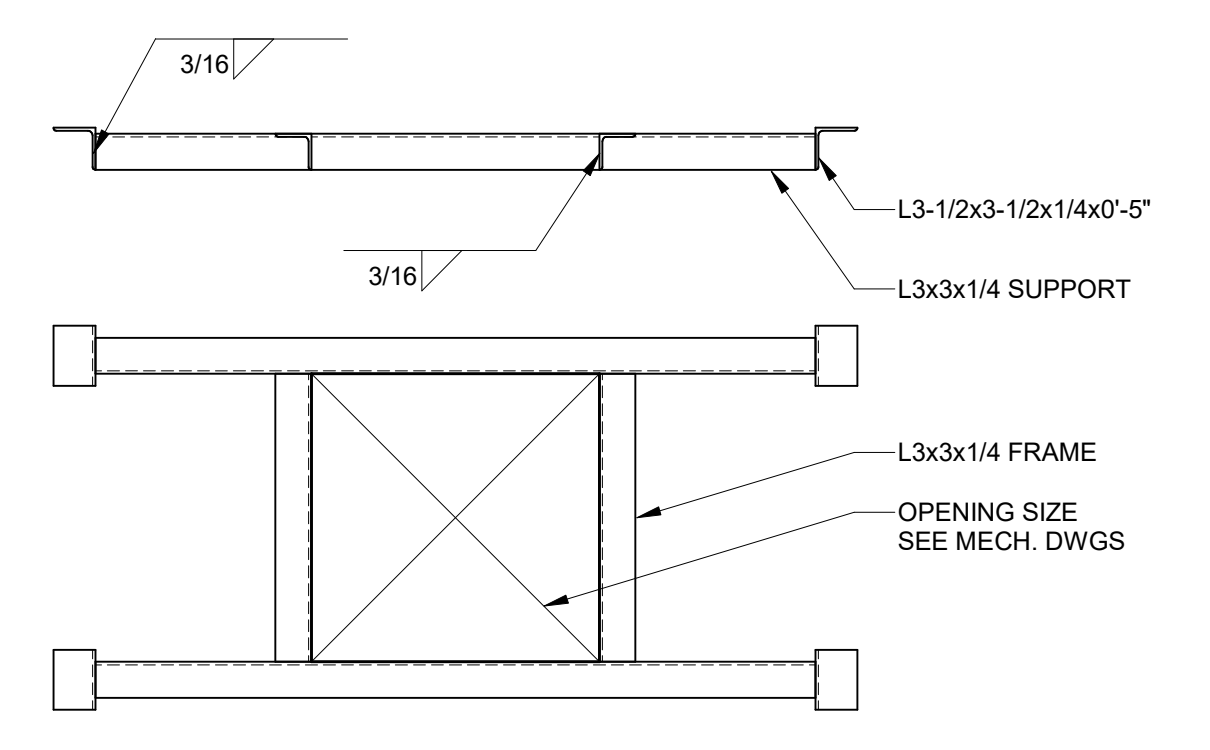


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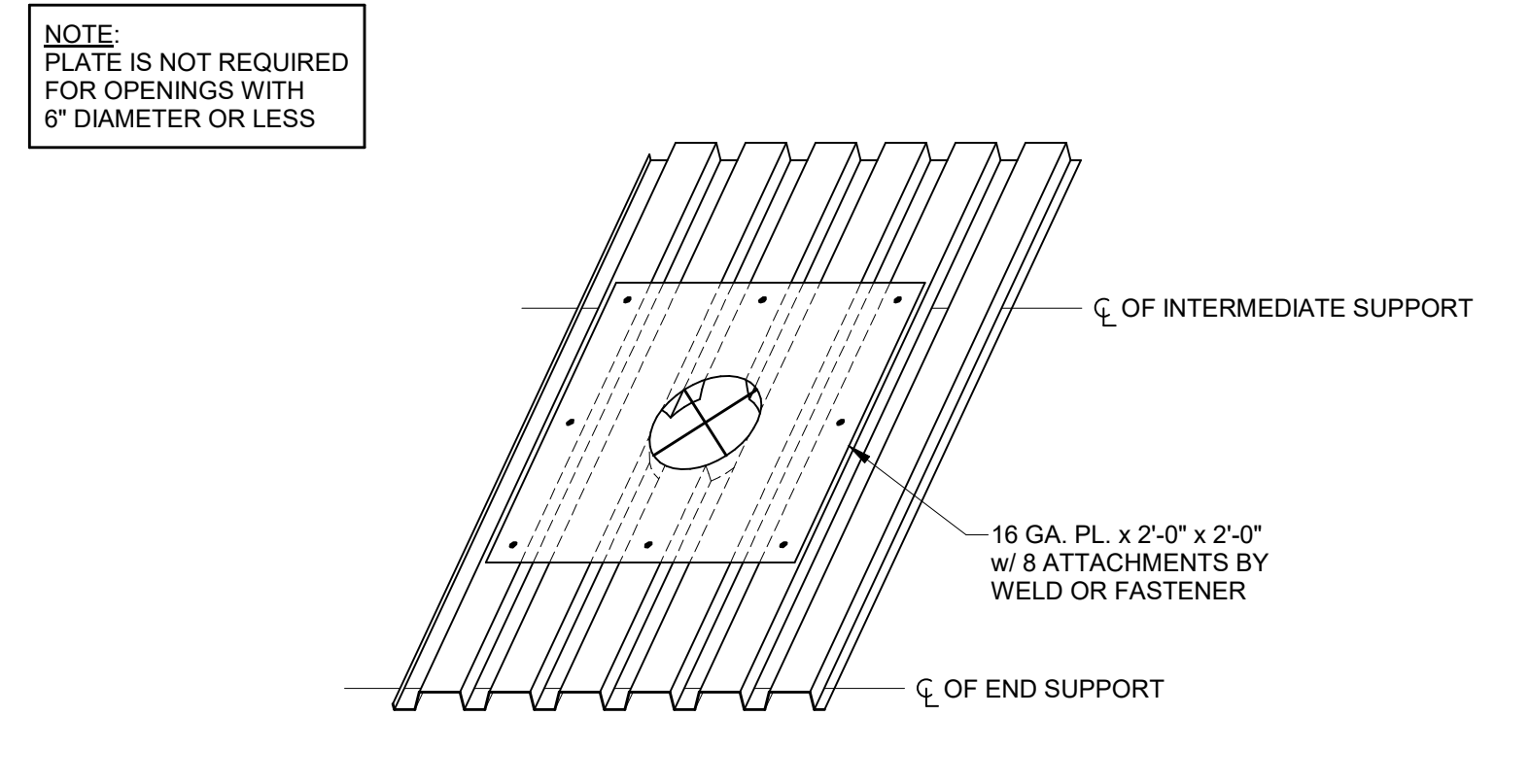
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DATE	03/03/23
ROOF FRAMING SECTIONS AND DETAILS	



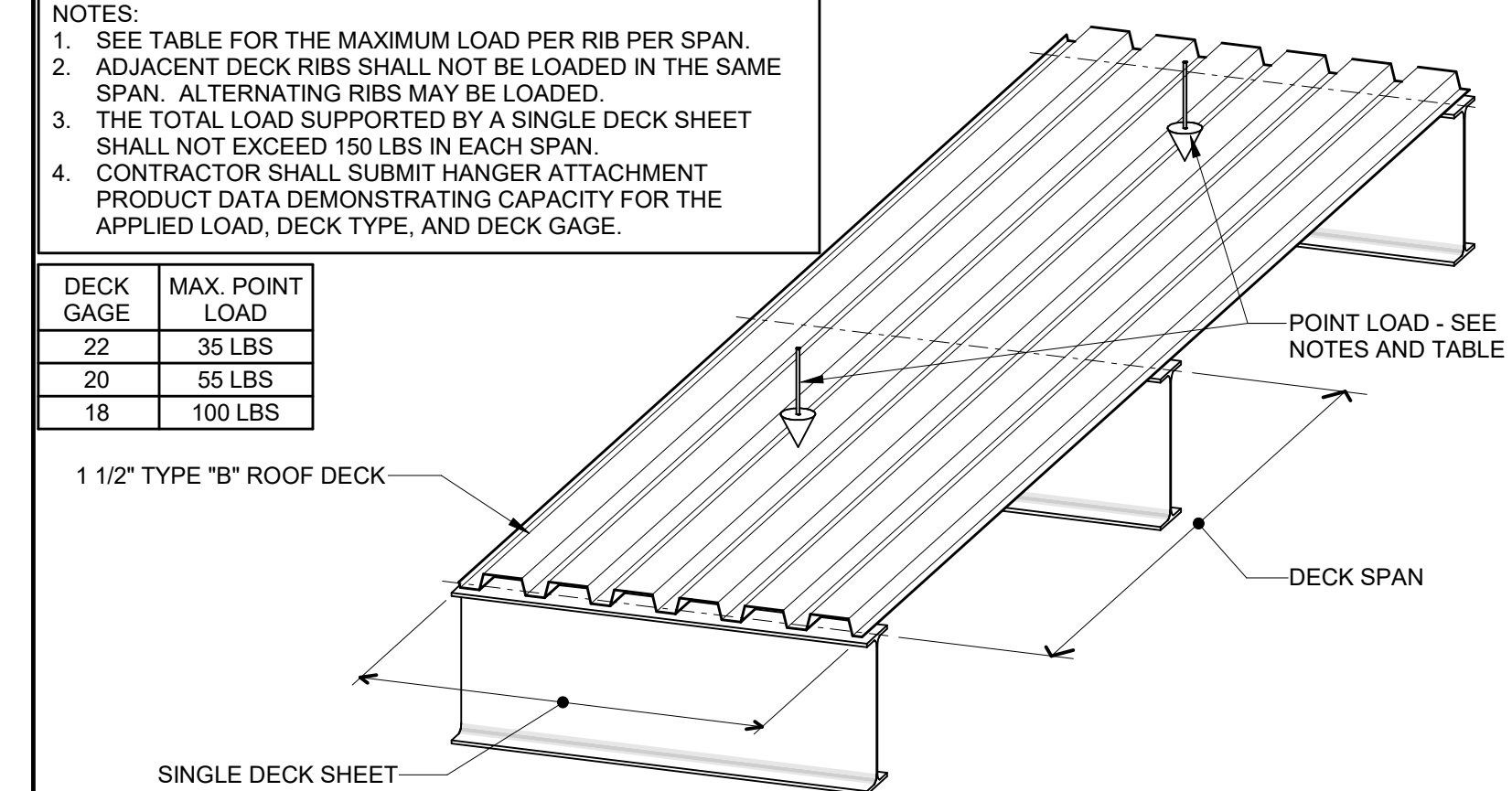
5 TYPICAL ROOF OPENING FRAME



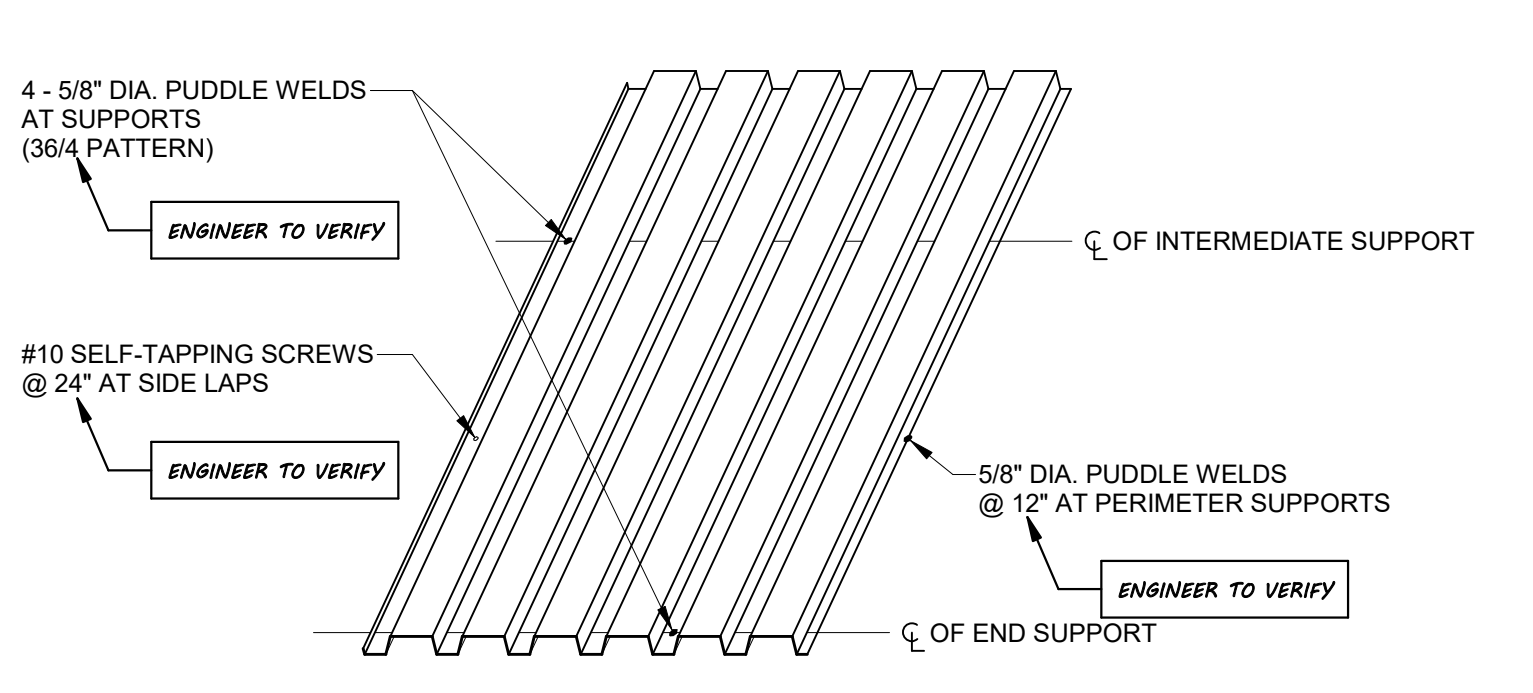
4 TYPICAL ROOF OPENING FRAME



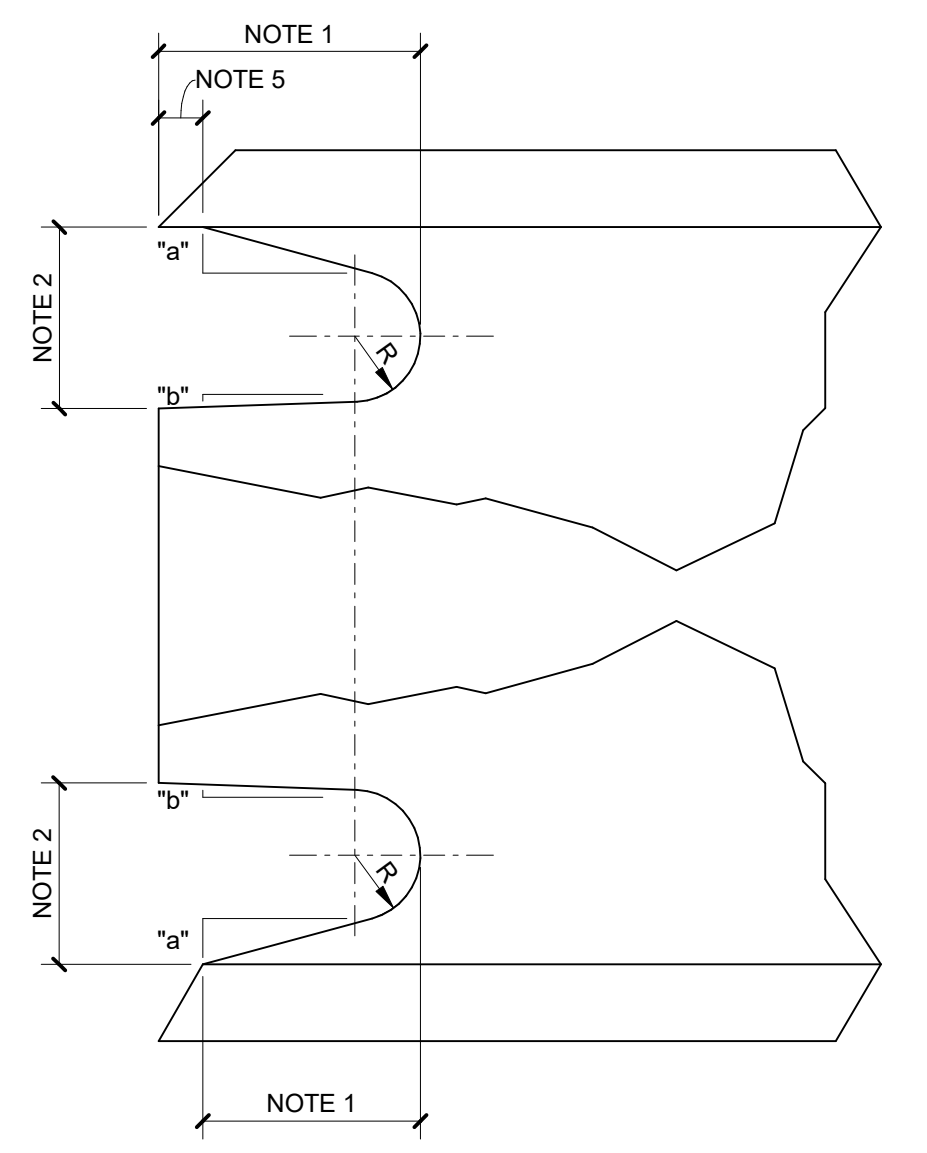
3 TYPICAL ROOF DECK OPENING (LESS THAN 14" DIAMETER)



2 TYP. ROOF DECK POINT LOAD RESTRICTIONS (1 1/2" TYPE "B" ROOF DECK)

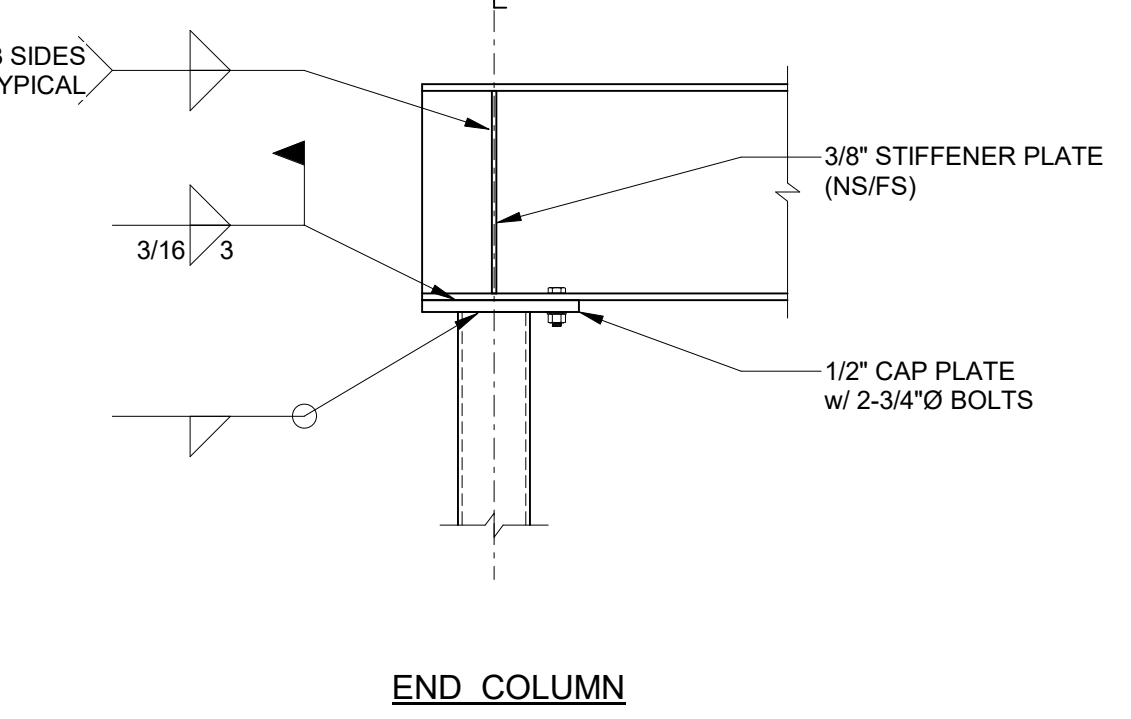


1 TYPICAL ROOF DECK ATTACHMENT (1 1/2" TYPE "B" ROOF DECK)

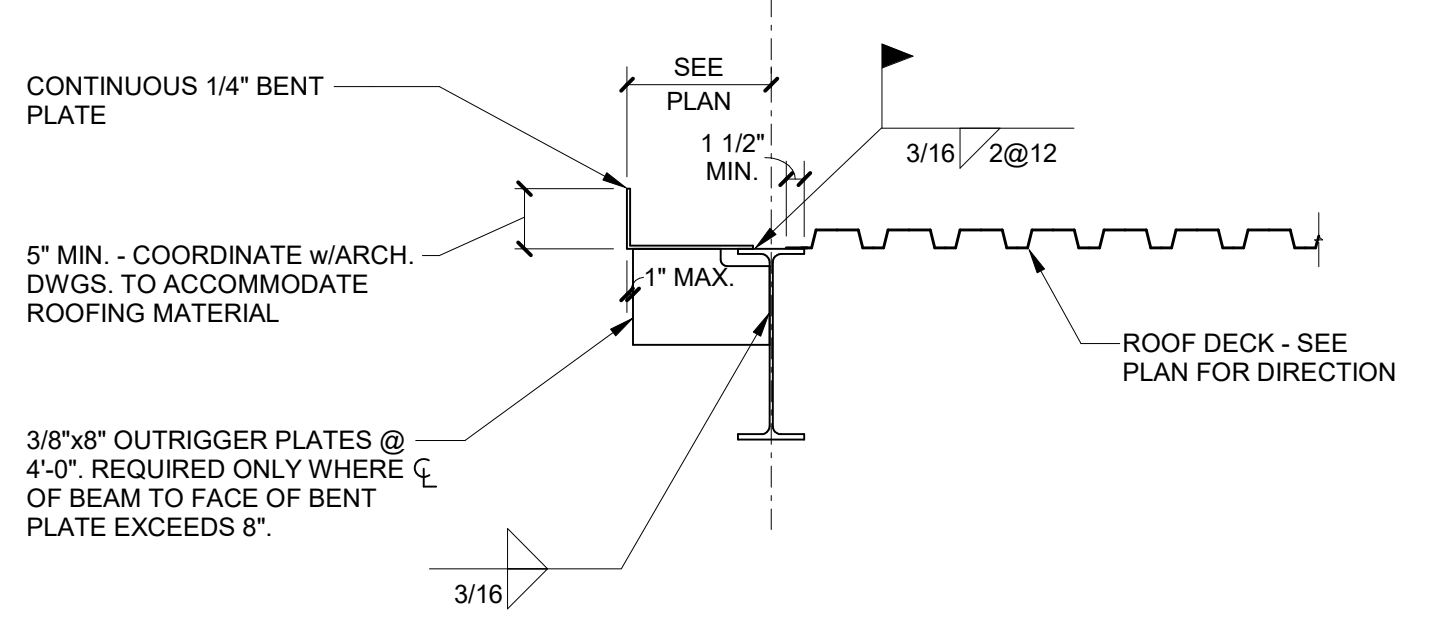


- NOTES:**
1. LENGTH: GREATER OF 1.5tw OR 1 1/2"
 2. HEIGHT: GREATER OF 1.0tw OR 1" BUT NEED NOT EXCEED 2"
 3. R = 3/8" MIN. GRIND THE THERMALLY CUT SURFACES OF WELD ACCESS HOLES IN HEAVY SHAPES AS DEFINED IN AISC 360-10 SECTIONS A3.1(a) AND (c)
 4. SLOPE "s" FORMS A TRANSITION FROM THE WEB TO THE FLANGE. SLOPE "s" MAY BE HORIZONTAL.
 5. THE BOTTOM OF THE TOP FLANGE IS TO BE CONTOURED TO PERMIT THE TIGHT FIT BACKING BARS WHERE THEY ARE TO BE USED.
 6. THE WEB-TO-FLANGE WELD OF BUILT UP MEMBERS IS TO BE HELD BACK A DISTANCE OF AT LEAST THE WELD SIZE FROM THE EDGE OF THE ACCESS HOLE.

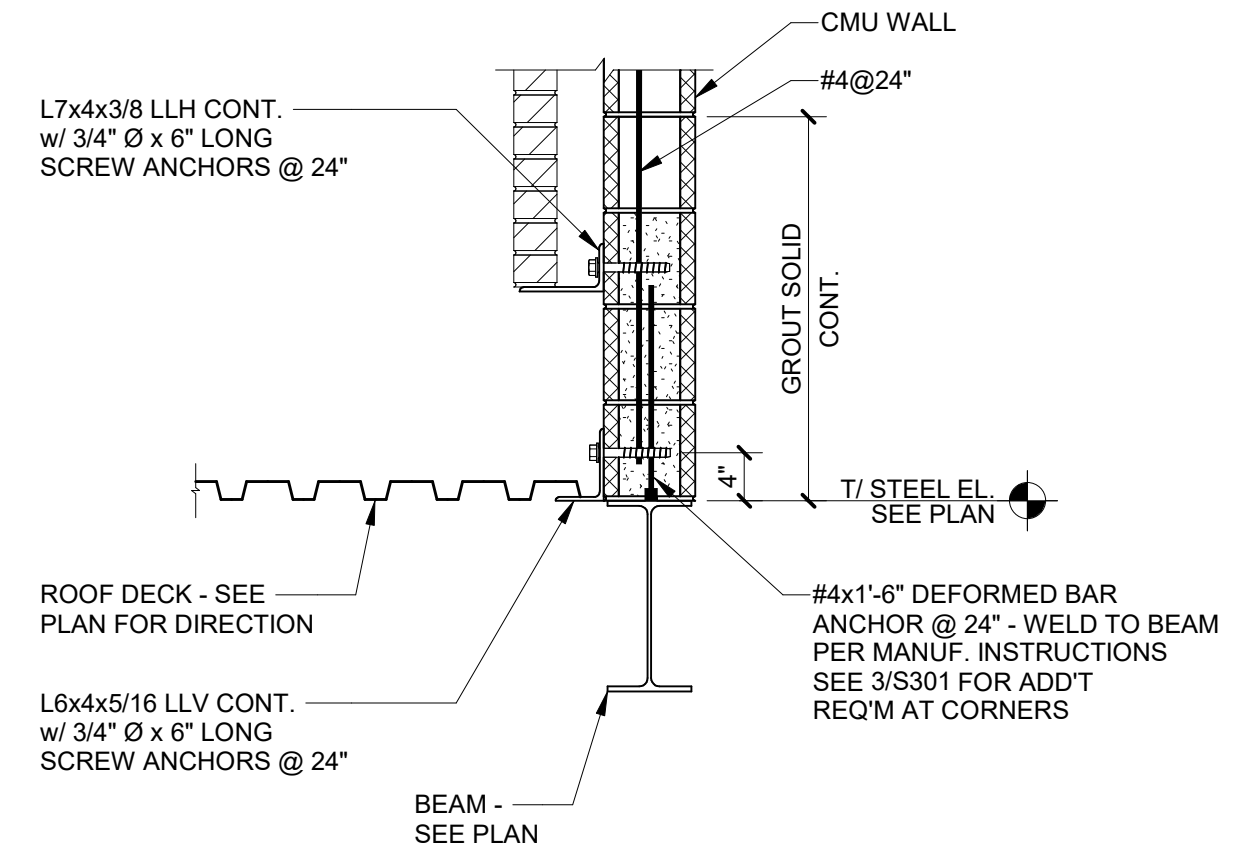
8 TYPICAL WELD ACCESS HOLE DETAIL



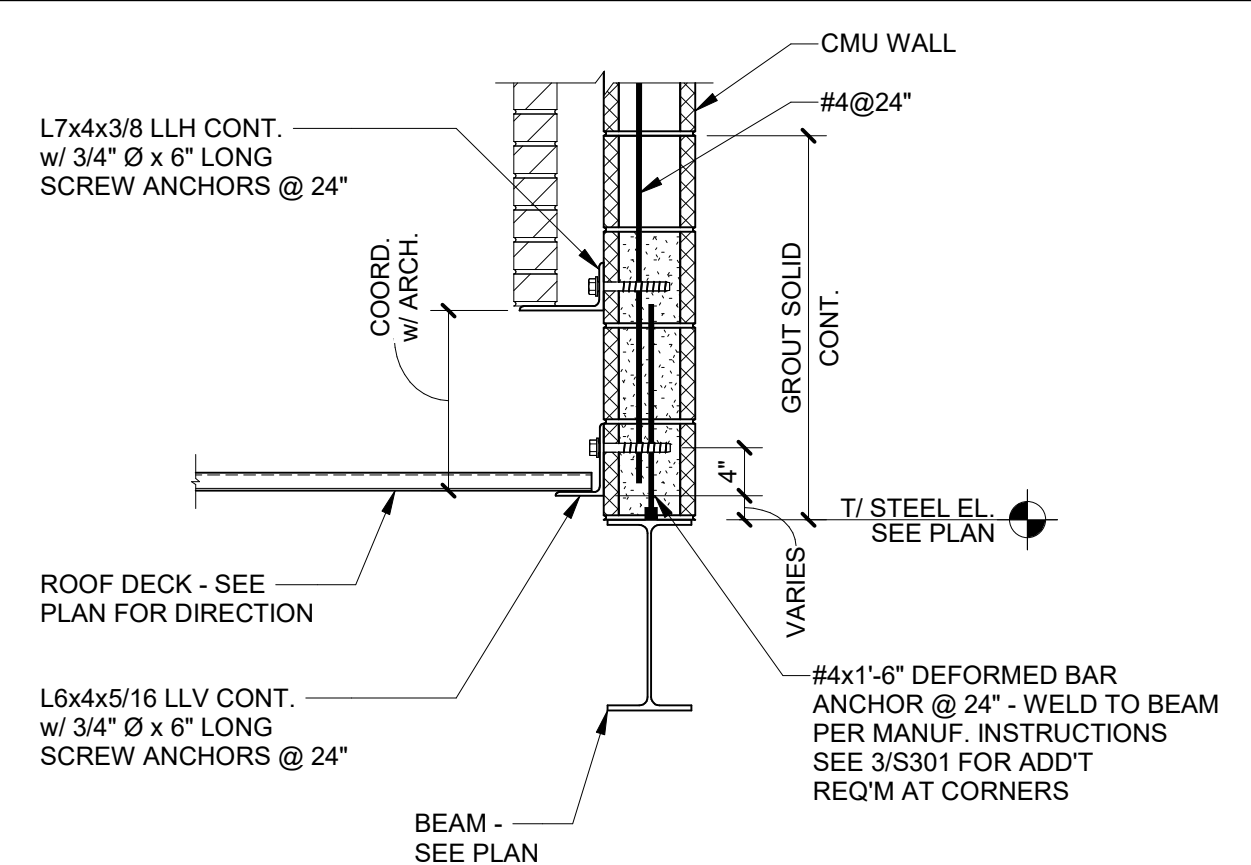
7 TYPICAL BEAM TO HSS COLUMN CONNECTION (CONTINUOUS/CANTILEVERED BEAMS)



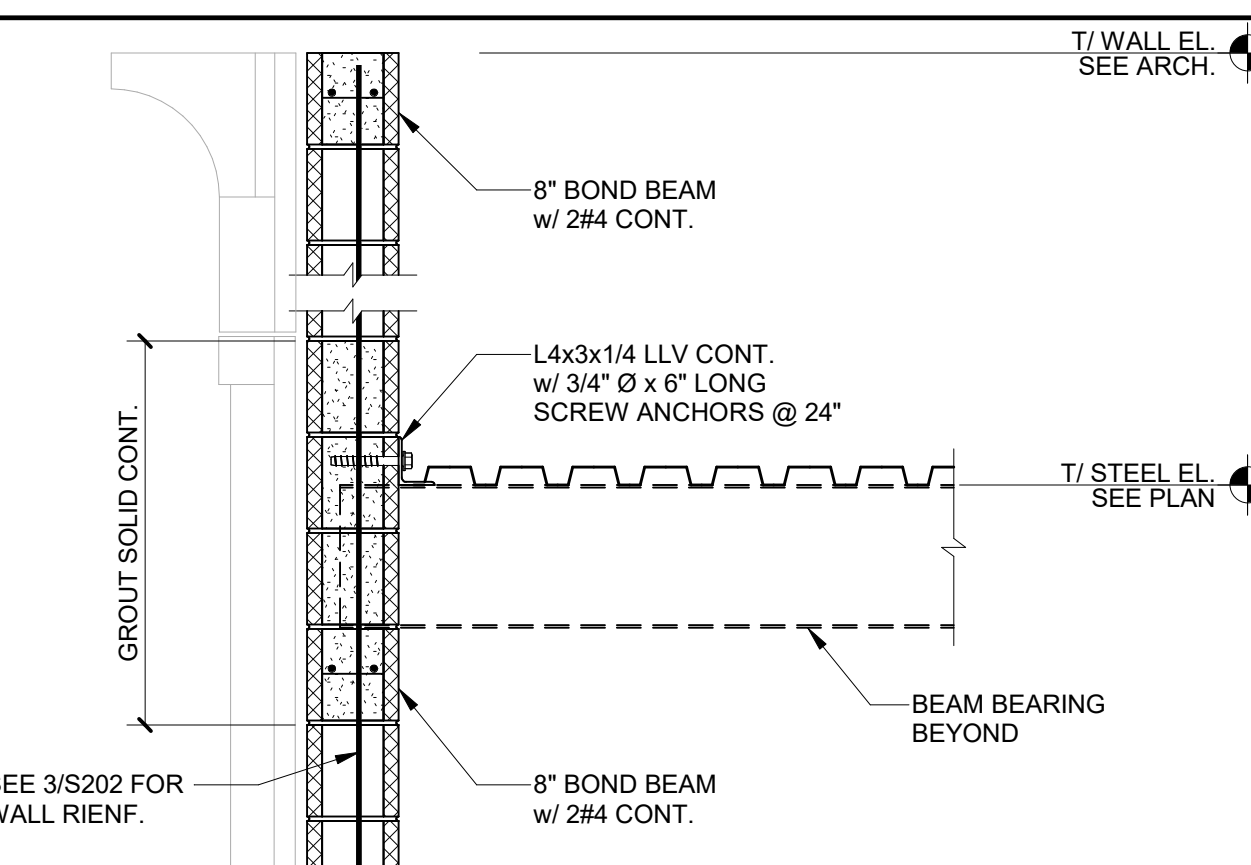
6 TYPICAL SECTION AT ROOF



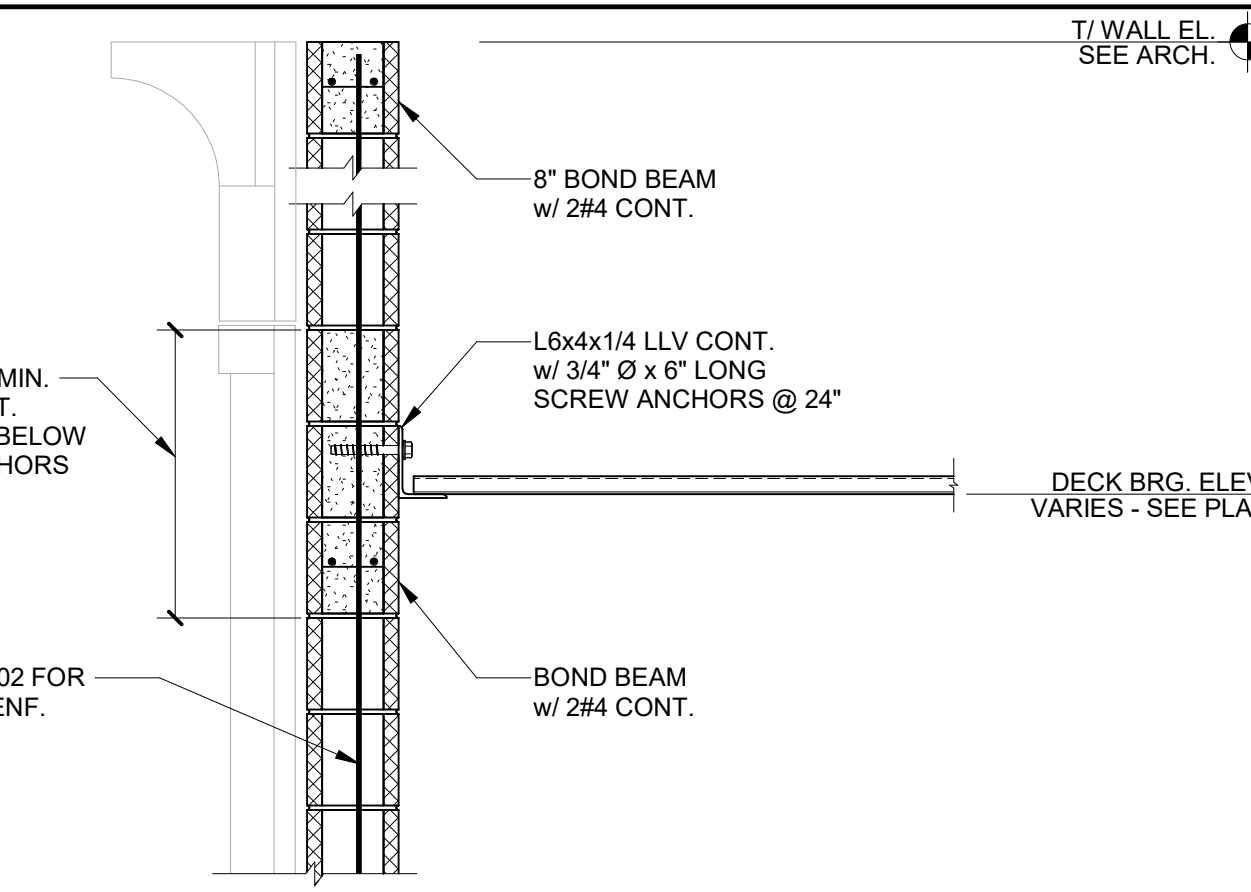
13 SECTION



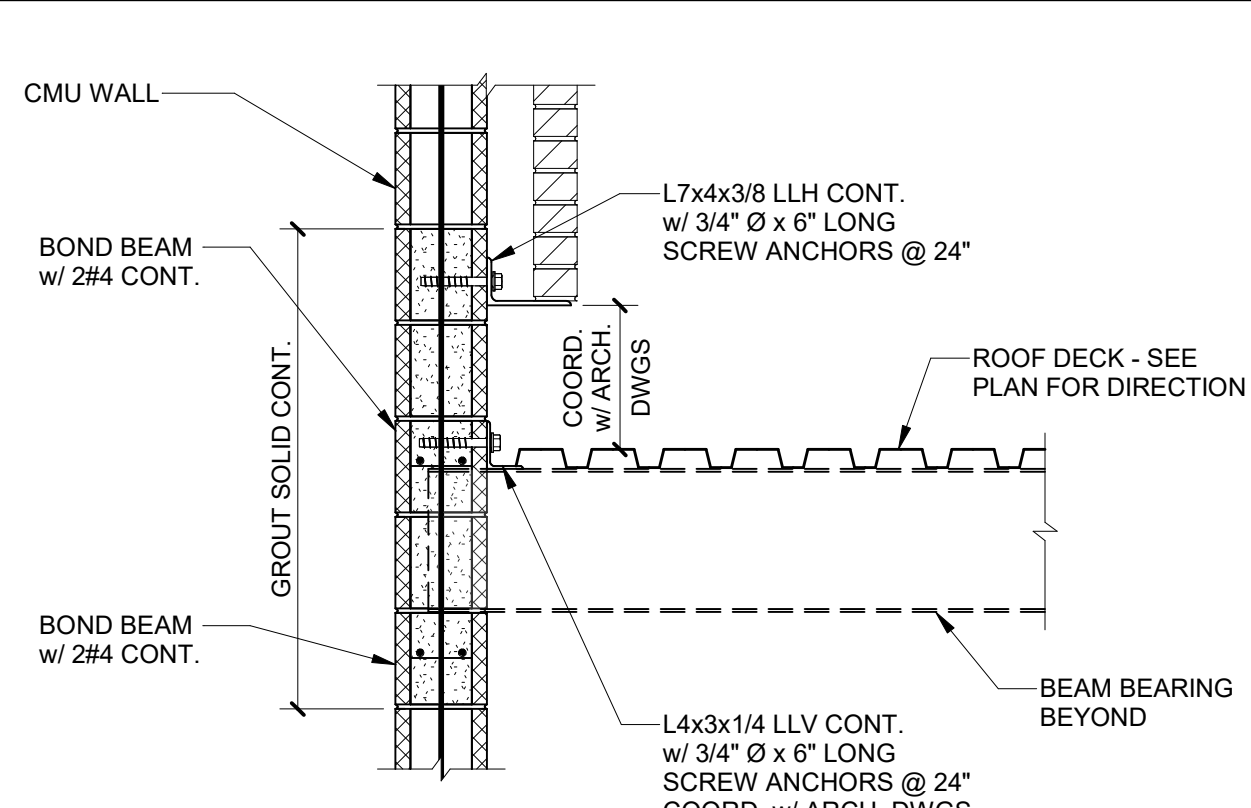
12 SECTION



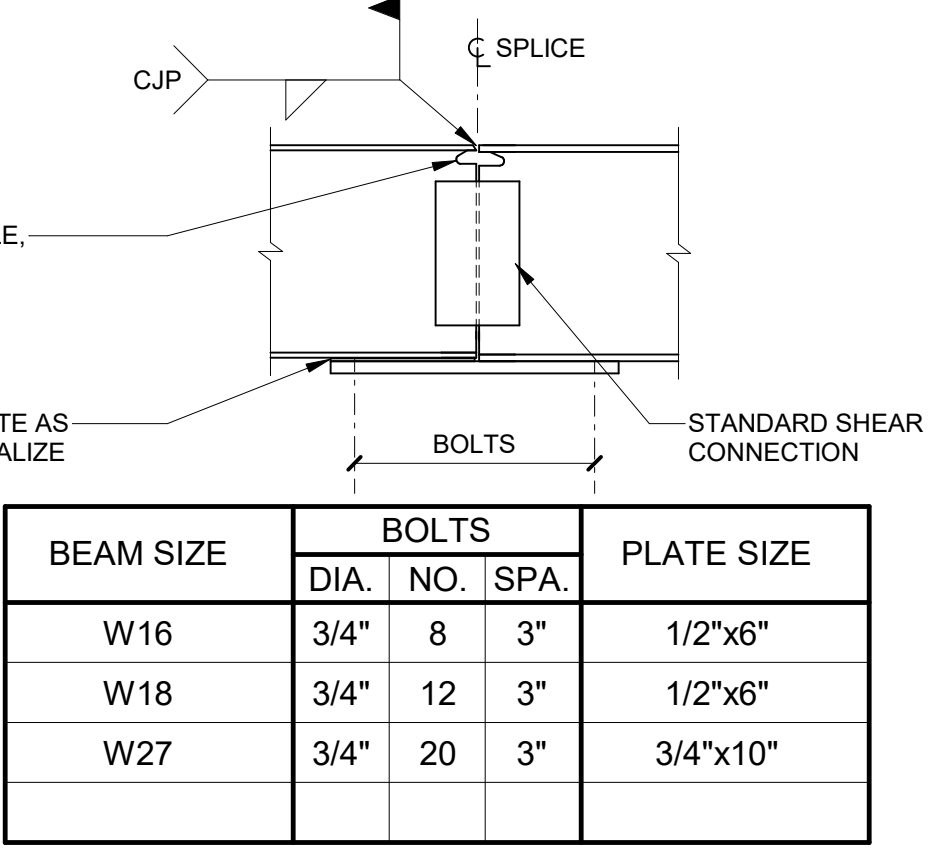
11 SECTION AT EXTERIOR WALL



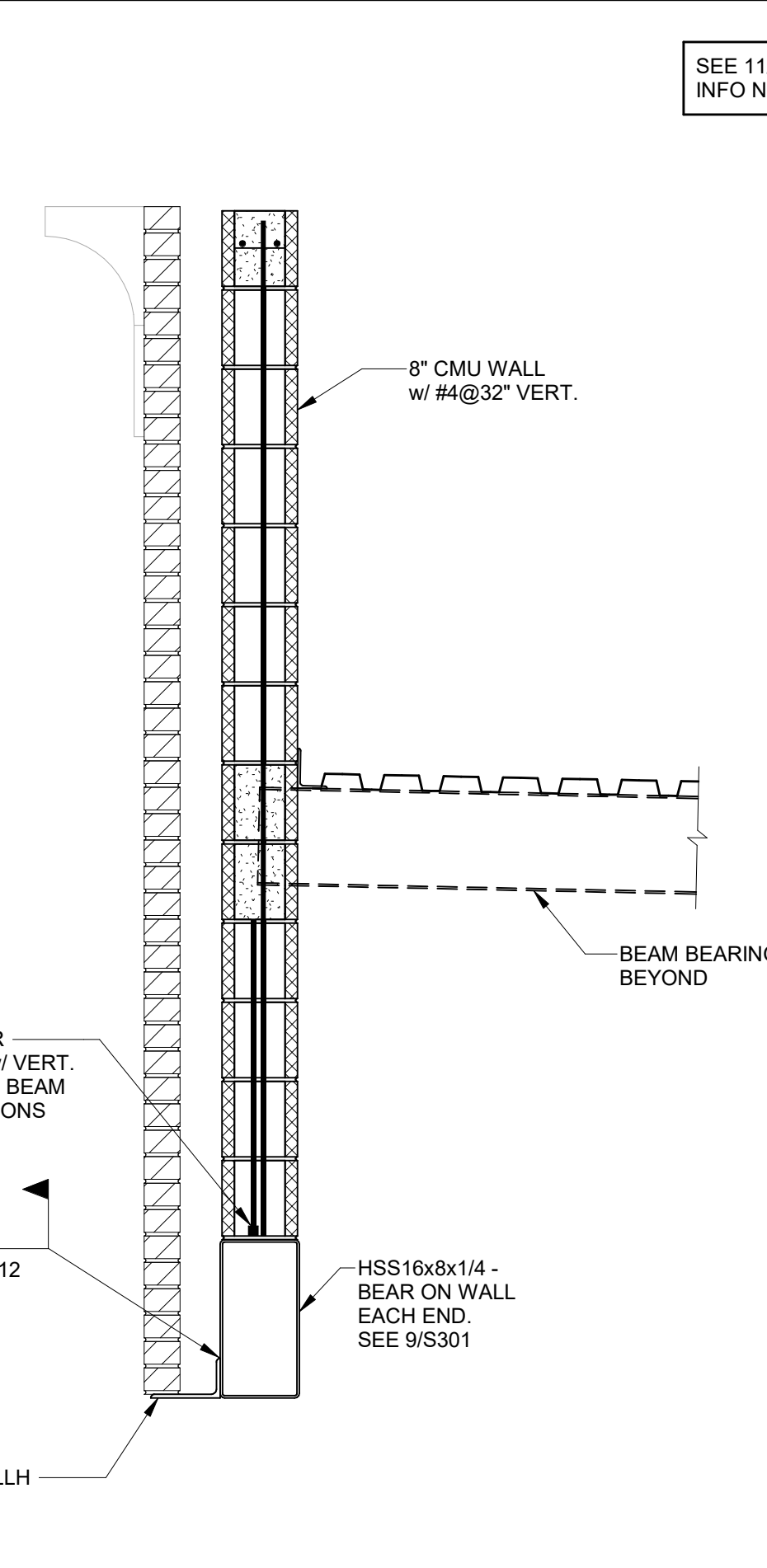
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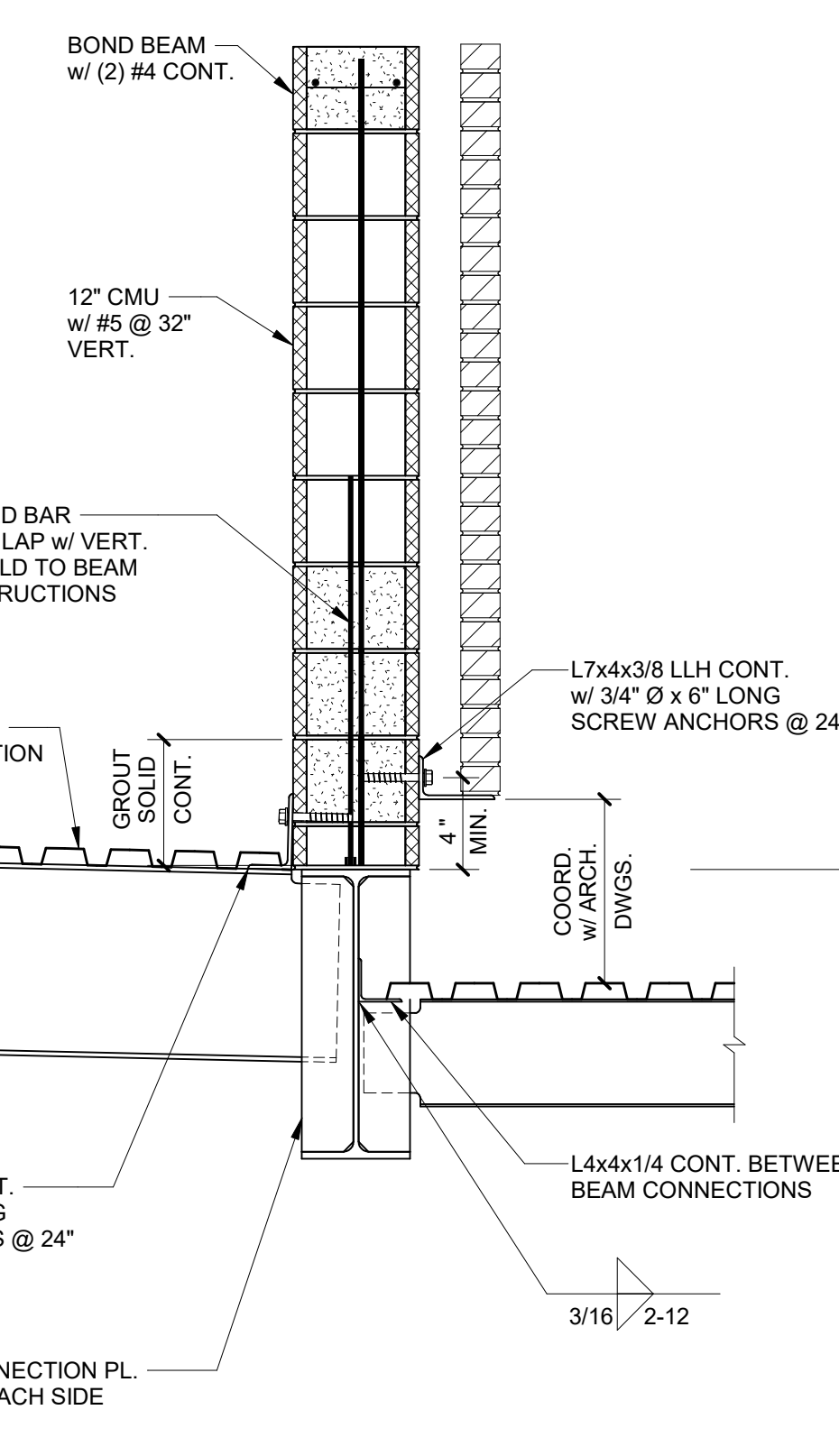
9 TYPICAL SECTION AT ROOF



16 TYPICAL WELDED/BOLTED MOMENT SPLICE

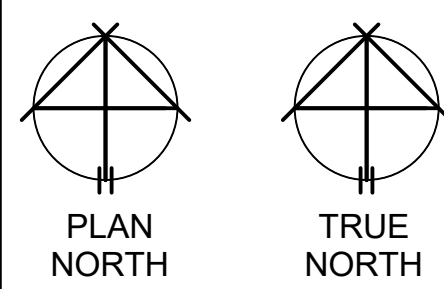


15 SECTION



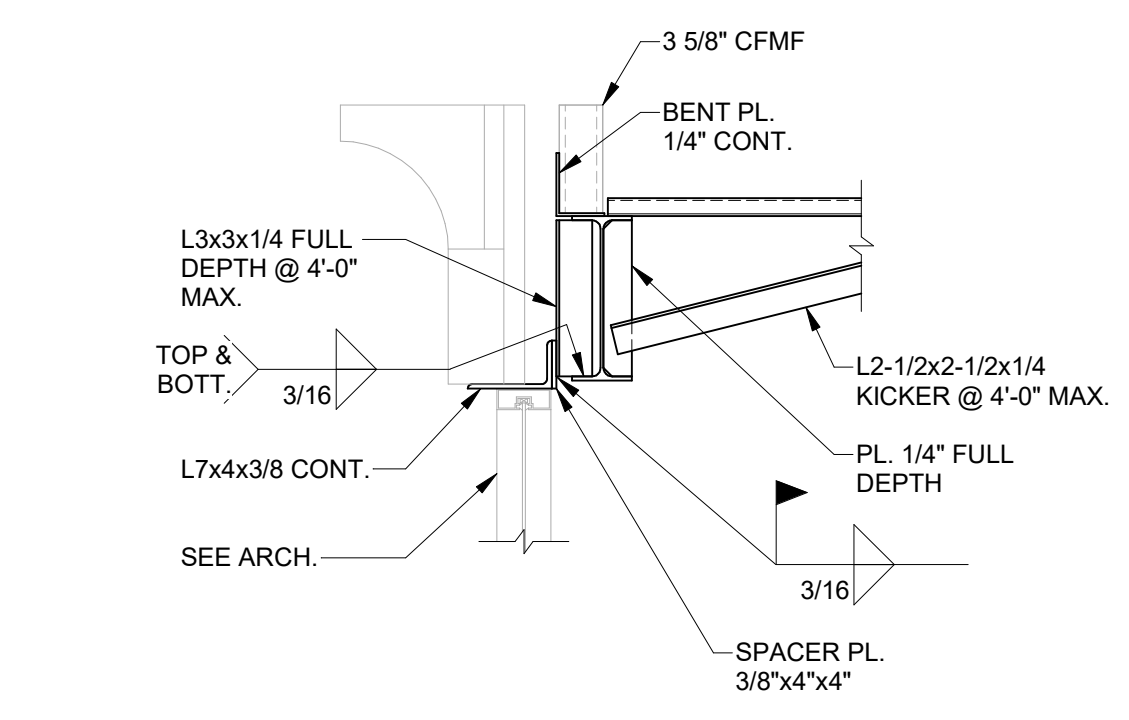
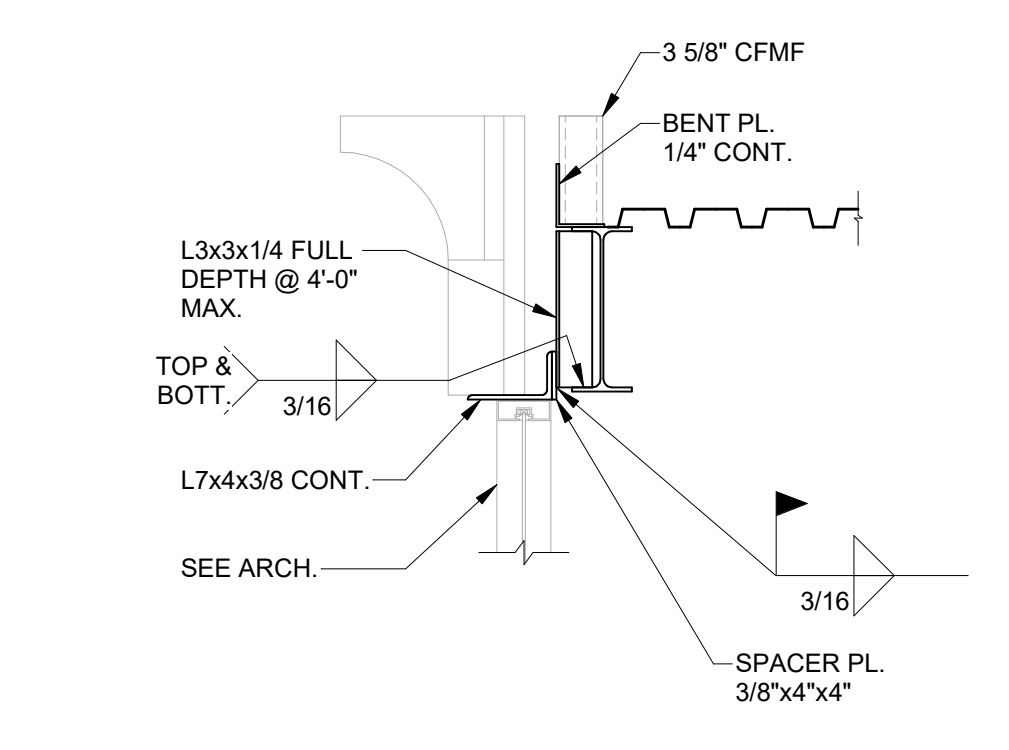
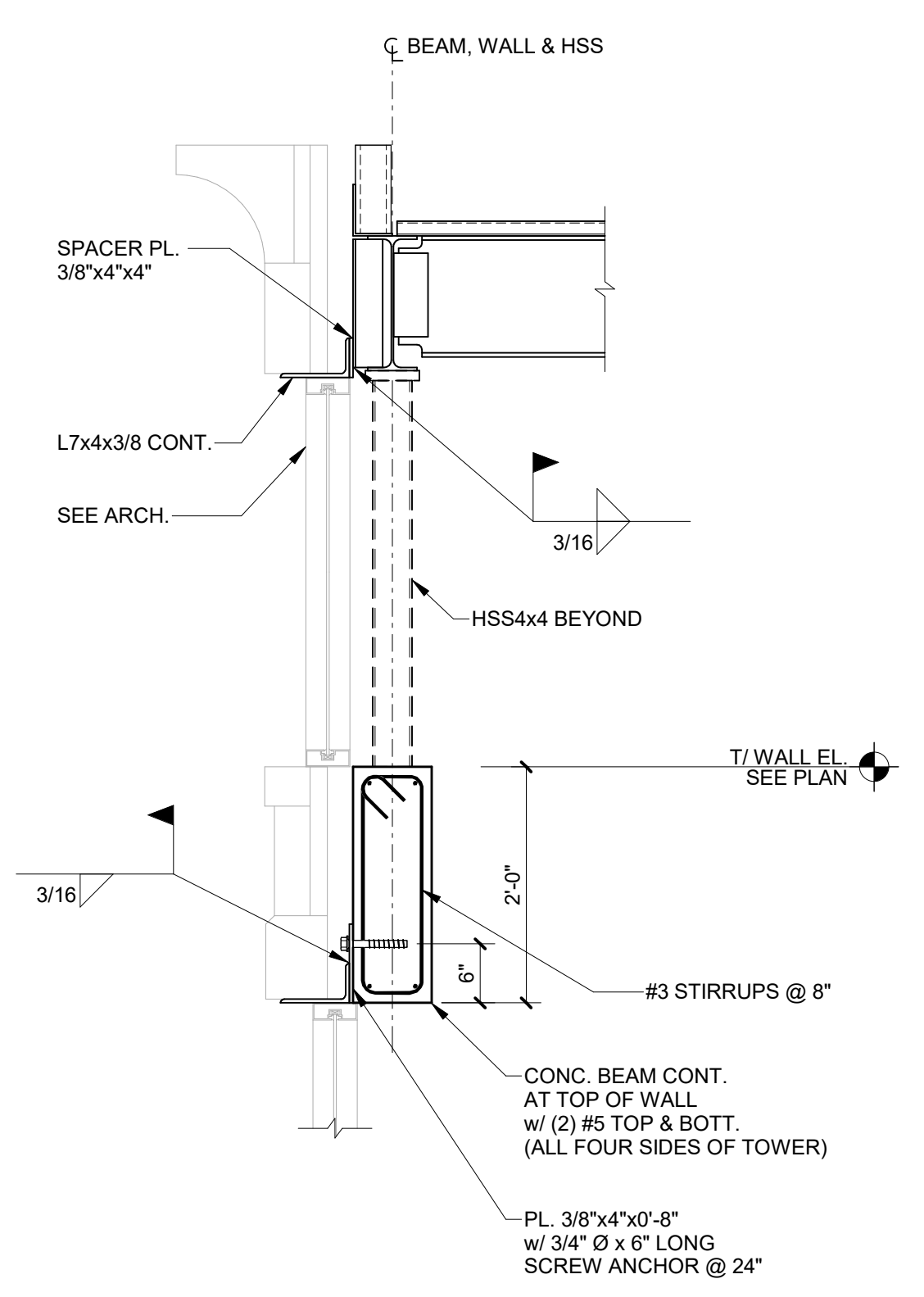
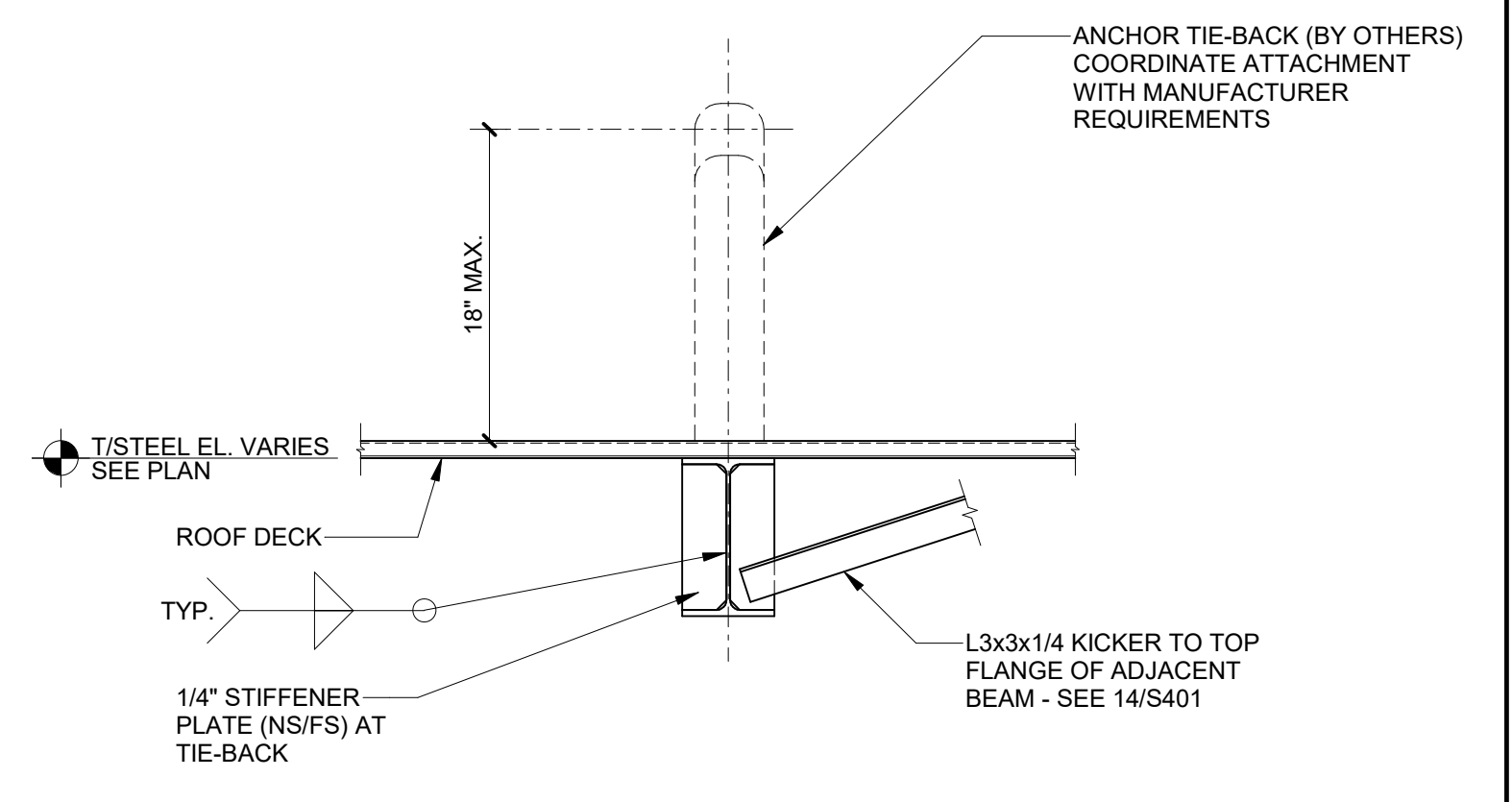
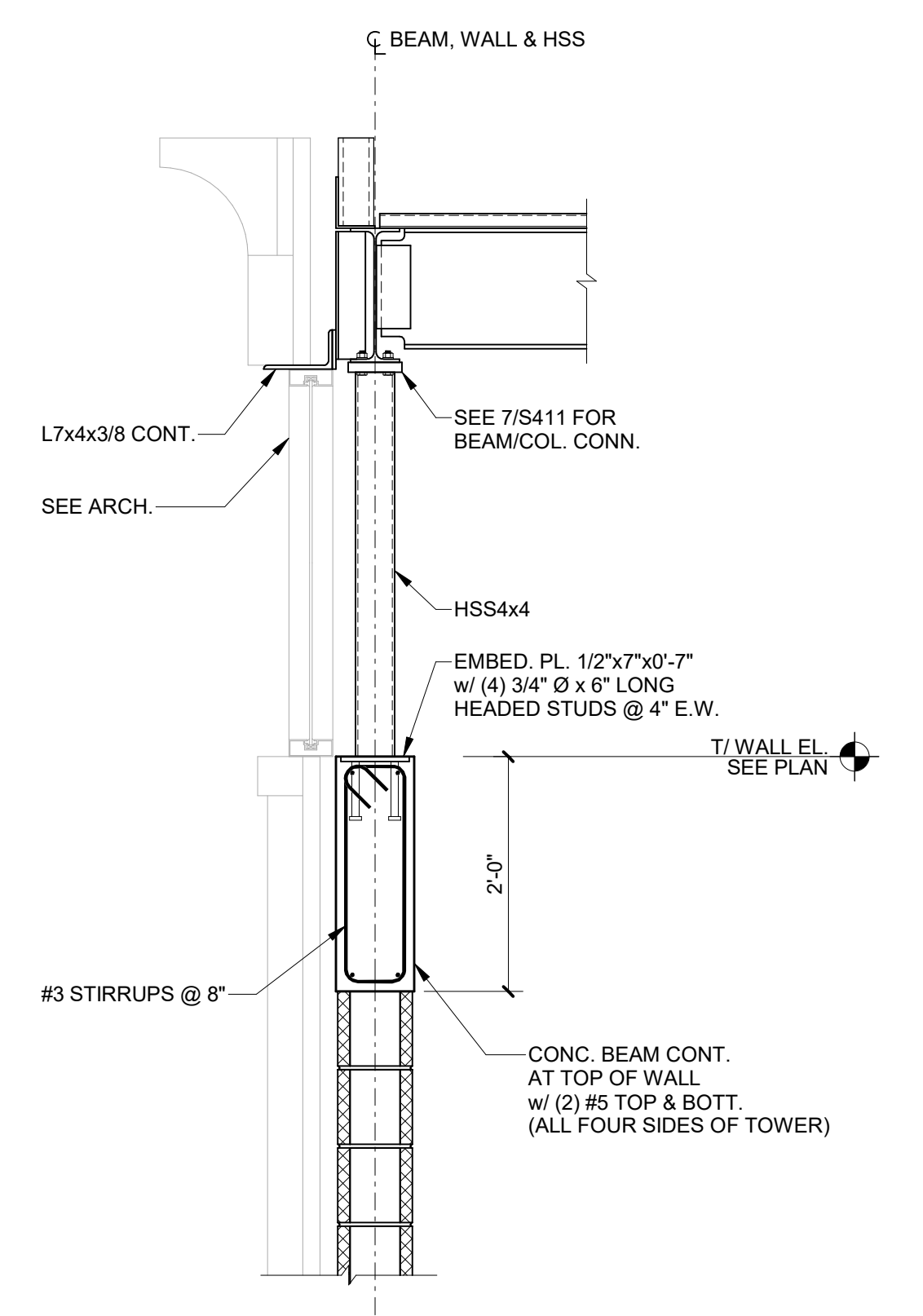
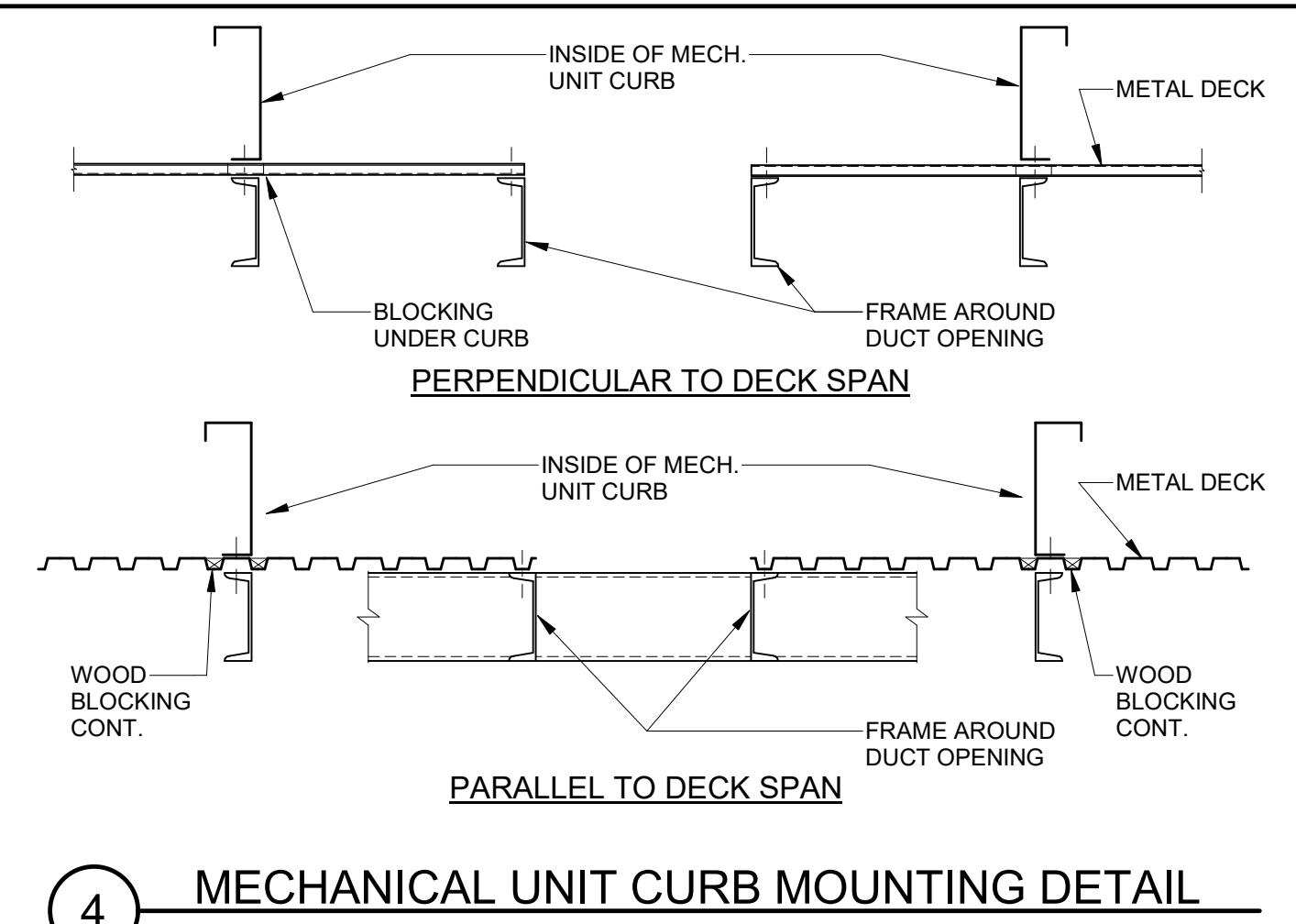
14 SECTION

TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



REVISIONS	

DR. BY	JR
CK. BY	BC
PROJ. NO.	A01122
DATE	03/03/23
ROOF FRAMING SECTIONS AND DETAILS	





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MECHANICAL GENERAL NOTES:

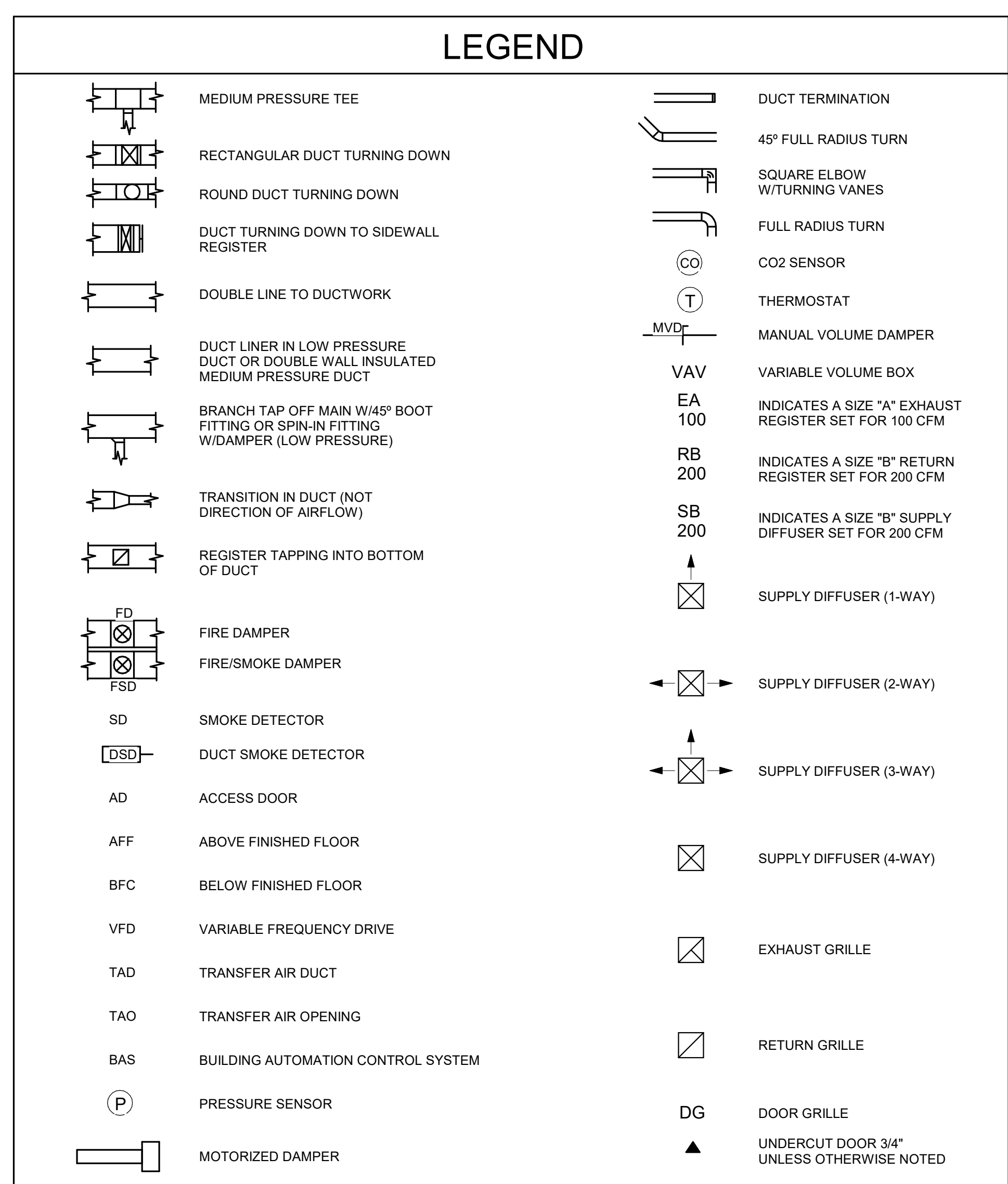
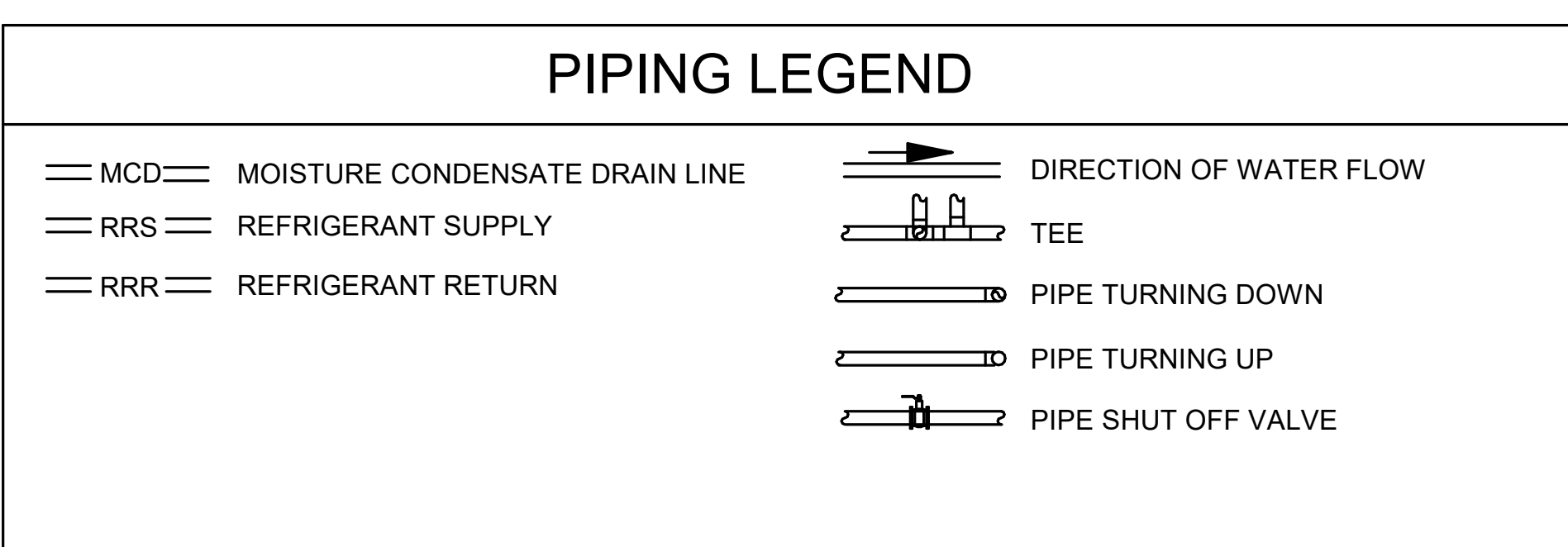
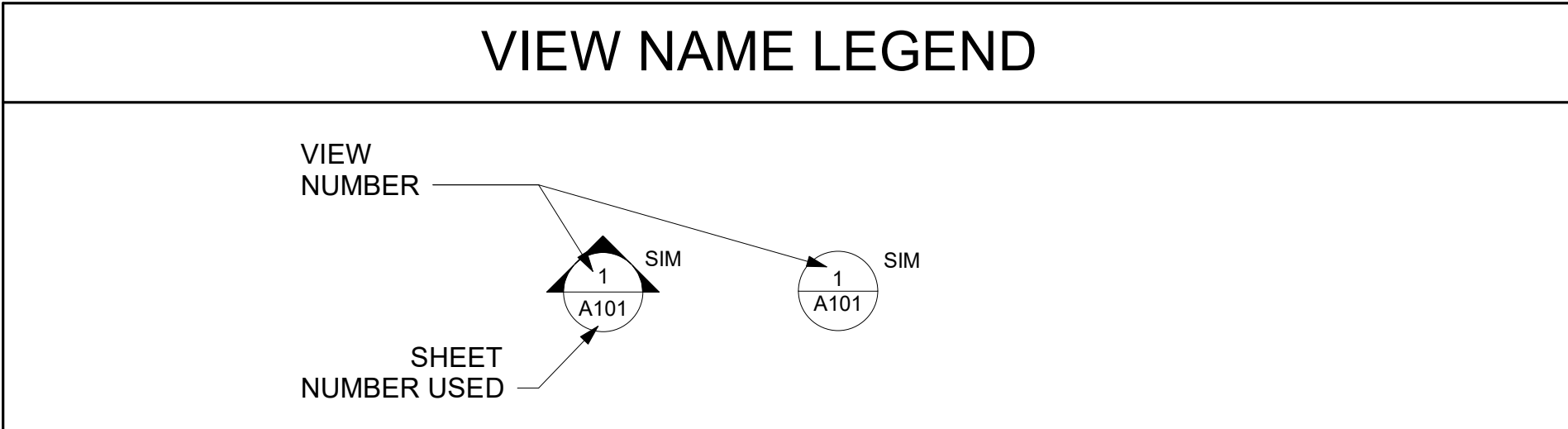
- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE OPERATIONAL COOLING AND HEATING SYSTEM IN ACCORDANCE WITH THE DESIGN DRAWINGS.
- 2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE, NFPA REQUIREMENTS, AND ALL LOCAL CODES.
- 3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.
- 4. CONTRACTOR SHALL FIELD VERIFY BY MEASUREMENT THE EXACT LOCATION OF EQUIPMENT, DUCTWORK, PIPING, STRUCTURE, AND OTHER CONDITIONS WHICH WILL AFFECT INSTALLATION. CONTRACTOR SHALL LOCATE EQUIPMENT AND ROUTE DUCTWORK AND PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH EXISTING CONDITIONS.
- 5. COORDINATE DUCT, PIPING, AND EQUIPMENT LOCATIONS WITH ELECTRICAL ROOMS, ELEVATOR EQUIPMENT ROOMS, AND ALL ELECTRICAL PANEL LOCATIONS. DO NOT PASS ANY MECHANICAL OR PLUMBING PIPING OR CONDENSATE PRODUCING EQUIPMENT DIRECTLY OVER ELECTRICAL PANELS, ELECTRICAL EQUIPMENT, ELEVATOR EQUIPMENT, CONTROLS, OR TELECOMMUNICATIONS EQUIPMENT. SEE ELECTRICAL AND TELECOMMUNICATION DRAWINGS FOR EXACT EQUIPMENT LOCATIONS.
- 6. CEILING DIFFUSER AND REGISTER LOCATIONS ARE APPROXIMATE ONLY. SEE ARCHITECTURAL FOR EXACT LOCATIONS OF ALL AIR DISTRIBUTION DEVICES (WALL AND CEILING).
- 7. ALL CUTTING AND PATCHING SHALL BE COORDINATED. ALL PATCHING SHALL RESTORE EACH DAMAGED SURFACE TO ITS ORIGINAL FINISH.
- 8. ALL EXPOSED DUCTWORK, PIPING, AND EQUIPMENT IN FINISHED SPACES TO BE INSTALLED AS HIGH AS POSSIBLE ABOVE FINISHED FLOOR AND SHALL BE PREPARED WITH PAINT GRIP SUITABLE FOR PAINTING.
- 9. ALL AIR DISTRIBUTION SYSTEM(S) SHALL BE TESTED AND BALANCED IN ACCORDANCE WITH A.A.B.C. OR N.E.B.B. REQUIREMENTS. A CERTIFIED AIR BALANCE REPORT SHALL BE PREPARED PRIOR TO PROJECT CLOSEOUT.
- 10. ALL LOW PRESSURE DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA HVAC DUCT CONSTRUCTION MANUAL FOR 2" W.G. STATIC PRESSURE. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL.
- 11. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR. ALLOWANCE MUST BE MADE IN SHEET METAL SIZE WHERE DUCT LINER IS SPECIFIED.
- 13. SUPPLY DUCTWORK SHALL BE INTERNALLY INSULATED FOR THE FIRST 20 FEET OF SUPPLY DUCT FROM AIR HANDLING UNIT. ALL OUTSIDE AIR DUCT AND ALL TRANSFER AIR DUCT (TAD) SHALL BE INTERNALLY INSULATED WITH 1" THICK, 3 LB. DENSITY, EQUAL TO CERTAINEED TOUGHGUARD. CONCEALED LOW PRESSURE SUPPLY DUCT NOT INTERNALLY LINED SHALL HAVE EXTERIOR WRAP INSULATION AS SPECIFIED. LOW PRESSURE RETURN AIR OR TRANSFER AIR DUCT SHALL BE LINED FOR 20 FEET FROM RETURN AIR DEVICE.
- 14. NO FLEXIBLE DUCT SHALL BE EXPOSED. NO DUCT WRAP INSULATION SHALL BE EXPOSED. DUCT EXPOSED IN MECHANICAL ROOMS SHALL BE EXTERNALLY INSULATED WITH RIGID INSULATION AS SPECIFIED.
- 15. DUCT RUNOUTS TO REGISTERS TO BE AS SCHEDULED UNLESS OTHERWISE INDICATED ON PLANS. CONTRACTOR TO PROVIDE A TRANSITION AT NECK OF EACH AIR DISTRIBUTION DEVICE AS REQUIRED.
- 17. FIRE DAMPERS TO BE TYPE "B" OR "C" DYNAMIC UNLESS OTHERWISE NOTED. INSTALLATION OUT OF AIRSTREAM AND IN STRICT ACCORDANCE WITH MANUFACTURER'S U.L. LISTED INSTALLATION INSTRUCTIONS AND SMACNA FIRE DAMPER GUIDE.
- 18. PROVIDE 4" HIGH CONCRETE PAD FOR ALL FLOOR-MOUNTED EQUIPMENT.
- 19. WHERE BRANCH TAPS OCCUR, PROVIDE INDIVIDUAL SPIN-IN FITTINGS WITH MANUAL-VOLUME DAMPERS FOR BALANCING. DO NOT USE TYPE WITH AIR SCOOP/EXTRACTOR. ADDITIONALLY, PROVIDE OPPOSED-BLADE VOLUME DAMPERS AT EACH AIR DISTRIBUTION DEVICE.
- 20. COORDINATE LOCATION AND PROVIDE DUCT ACCESS DOORS FOR ACCESS TO ALL FIRE DAMPERS, VALVES AND OTHER ENCLOSED ITEMS. DUCT ACCESS DOORS MAY BE OMITTED WHERE TYPE "A" FIRE DAMPERS ARE ACCESSIBLE THROUGH SIDEWALL REGISTER FACE. INSURE DUCT ACCESS DOORS AND DAMPERS ARE ACCESSIBLE THROUGH CEILINGS AND WALLS. LOCATE DUCT ACCESS DOORS ABOVE SPACES WITH LAY-IN CEILINGS OR EXPOSED CEILINGS WHERE POSSIBLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES.
- 21. PROVIDE CANVAS, FLAME RETARDANT FLEXIBLE DUCT CONNECTORS AT ALL CONNECTIONS OF FANS TO DUCTWORK.
- 22. PROVIDE A MINIMUM 15'-0" SEPARATION BETWEEN ANY FRESH AIR INTAKE AND ANY MECHANICAL EXHAUST, PLUMBING VENT, OR OTHER VENT OUTLETS.
- 23. COORDINATE INSTALLATION OF DUCT-MOUNTED SMOKE DETECTORS WITH FIRE ALARM SYSTEM PROVIDER.
- 24. DUCT-MOUNTED SMOKE DETECTORS ARE PROVIDED BY DIV. 26, INSTALLED BY DIV. 23.
- 25. DUCTWORK AND PIPE UNDER ROOF DECK SHALL BE SUPPORTED FROM STEEL BEAMS OR FROM SUPPLEMENTARY FRAMING SUPPORTED BY STEEL BEAMS.
- 26. DUCTWORK CAN BE HUNG FROM FLOOR DECK WITH CONCRETE FILL. SUPPORT DUCTWORK FROM STEEL BEAMS WHERE PRACTICAL.
- 27. PIPE 4" AND SMALLER CAN BE HUNG FROM FLOOR DECK WITH CONCRETE FILL. SUPPORT PIPE FROM STEEL BEAMS WHERE PRACTICAL. PIPE LARGER THAN 4" SHALL BE SUPPORTED FROM STEEL BEAMS OR FROM SUPPLEMENTARY FRAMING SUPPORTED BY STEEL BEAMS.
- 28. REFER TO THE IBC AND NFPA FOR CAULKING REQUIREMENTS AROUND FIRE AND FIRE/SMOKE DAMPERS.

SUPPLY DIFFUSER SCHEDULE							
SYMBOL	ADAPTOR/NECK SIZE	FACE SIZE	MAX CFM	MAX TP	MAX NC	THROW	DUCT RUNOUT SIZE *
SA	6" Ø	24"x24"	100	0.022	20	4-WAY	8"x5"76" Ø
SB	8" Ø	24"x24"	200	0.042	20	4-WAY	10"x7"78" Ø
SC	10" Ø	24"x24"	350	0.088	20	4-WAY	12"x8"10" Ø
SD	12" Ø	24"x24"	500	0.127	20	4-WAY	14"x9"12" Ø
SE	14" Ø	24"x24"	700	0.173	23	4-WAY	16"x10"14" Ø
SF	15" Ø	24"x24"	950	0.259	28	4-WAY	16"x12"16" Ø
SWA	8"x8"	10"x10"	275	0.03	19	2-WAY	8"x8"
SWB	16"x60"	18"x62"	2700	0.016	20	2-WAY	16"x60"
SWC	36"x24"	38"x26"	2700	0.016	20	2-WAY	36"x24"
SWF	20"x16"	22"x18"	1040	0.016	20	2-WAY	20"x16"
SWG	18"x10"	20"x12"	850	0.04	27	2-WAY	18"x10"

- 1. SA THRU SE ARE TITUS MODEL OMNI STEEL DIFFUSERS. PROVIDE EQUIVALENT OMNI-AA ALUMINUM DIFFUSERS IN ALL LOCKERS, SHOWERS, DECONTAM, AND TURNOUT GEAR.
 - 2. SWA THRU SWG SHALL BE TITUS MODEL 1707 SIDE WALL DIFFUSERS.
- ALL SUPPLY DIFFUSERS SHALL BE PROVIDED W/2" INSULATION BLANKET ON BACK OF DIFFUSER. ALL DIFFUSERS SHALL HAVE OPPOSED BLADE DAMPERS (OBD).
* RUNOUTS ARE DUCTS SERVING ONLY ONE SUPPLY DIFFUSER.

CEILING GRILLES & REGISTERS						
SYMBOL	NECK	FACE	MAX CFM	MAX SP	MAX NC	DUCT RUNOUT SIZE *
RA/EA	6" SQ	24"x24"	100	.06	20	8"x5"76" Ø
RB/EB	8" SQ	24"x24"	200	.06	20	10"x7"78" Ø
RC/EC	10" SQ	24"x24"	350	.06	20	12"x8"10" Ø
RD/ED	12" SQ	24"x24"	500	.06	20	14"x9"12" Ø
RE/EE	14" SQ	24"x24"	700	.06	20	16"x10"14" Ø
RF/EF	16" SQ	24"x24"	1000	.06	20	20"x10"16" Ø
RG/EG	18" SQ	24"x24"	1250	.06	20	24"x10"18" Ø
RH/EH	22" SQ	24"x24"	1750	.06	20	24"x12"18" Ø
SRA/SEA	24"x16"	26"x18"	1230	.04	20	24"x16"
SRB/SEB	10"x10"	12"x12"	240	.06	25	10"x10"
SRC/SEC	16"x16"	18"x18"	320	.002	20	16"x16"

- PERFORMANCE BASIS:
- 1. RA/EA THRU RH/EH SHALL BE TITUS MODEL 50F OR APPROVED EQUAL WITH 1/2"x1/2"x1/2" EGG-CRATE CORE. PROVIDE EQUIVALENT 50F ALUMINUM EGG-CRATE GRILLE IN ALL LOCKERS, SHOWERS, DECONTAM, AND TURNOUT GEAR.
 - 2. SRA/SEA AND RK/EK SHALL BE FILTER RETURN TITUS MODEL 350RLF OR APPROVED EQUAL WITH 1/2" BLADE SPACING.
 - 3. TRANSFER AIR GRILLE (TAG) SHALL BE TITUS 350RL OR APPROVED EQUAL FOR SIDEWALL OR TITUS 50F FOR CEILING APPLICATIONS. SIZE AS SHOWN ON PLANS.
- * RUNOUTS ARE DUCTS SERVING ONLY ONE GRILLE OR REGISTER.



**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

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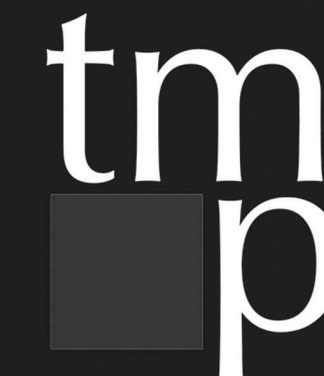
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CK. BY ICT
PROJ. NO. A01122
DATE 03/03/23
**MECHANICAL
GENERAL NOTES
& LEGENDS**

M001



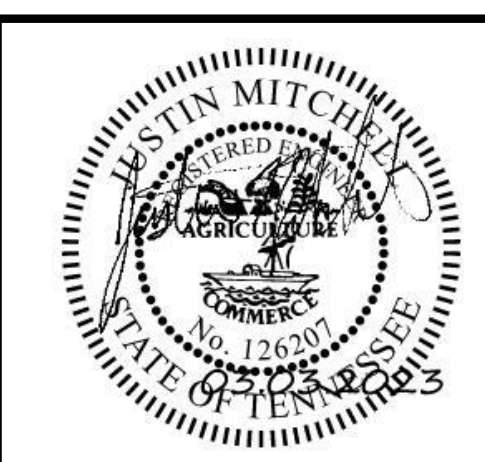
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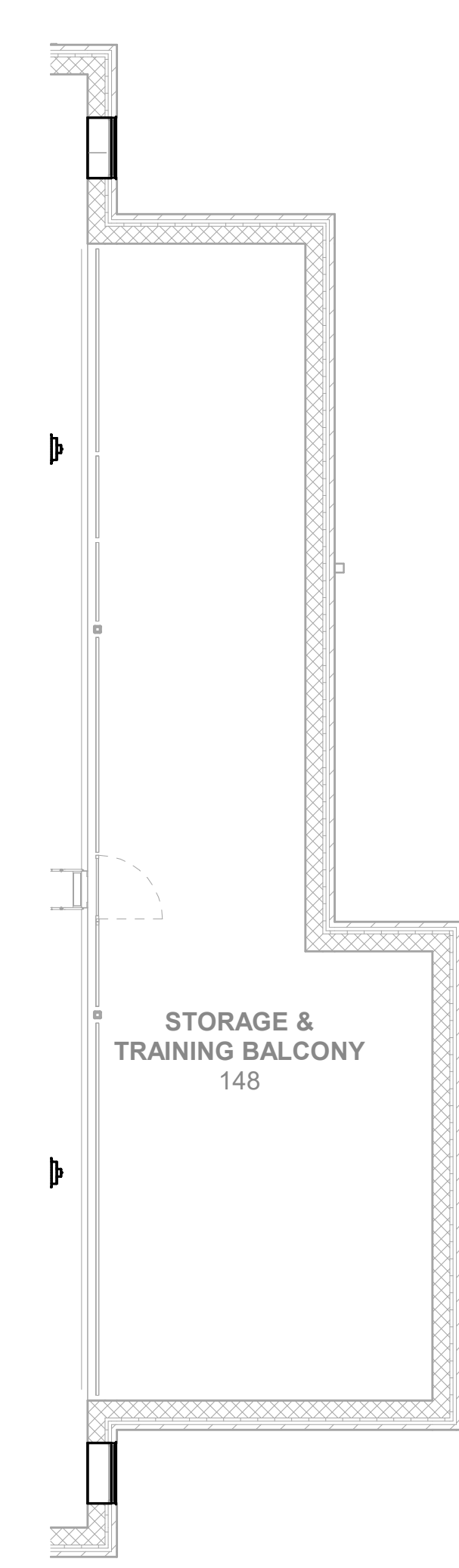
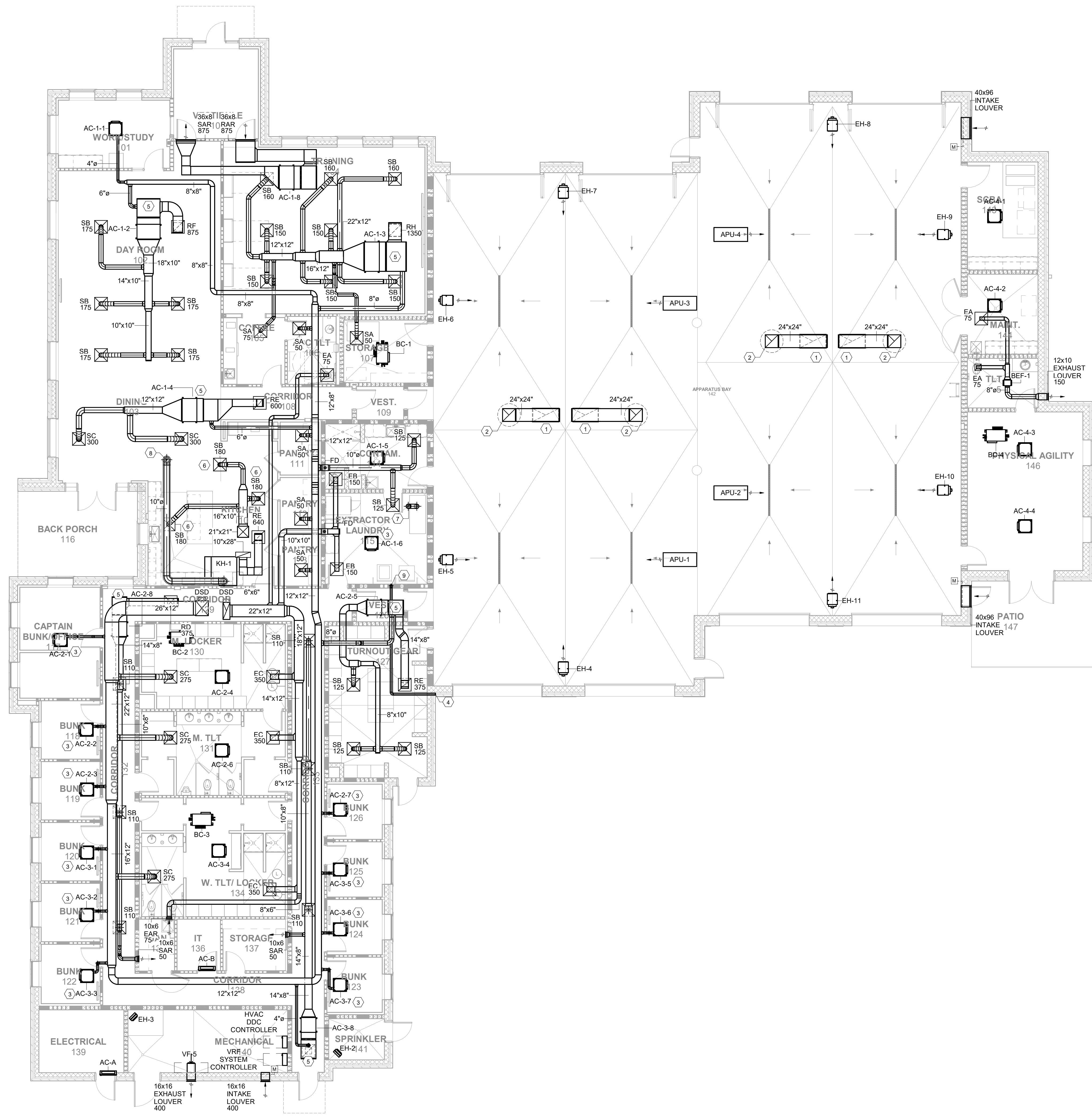


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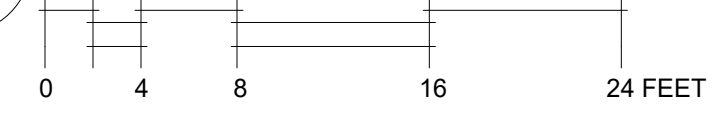
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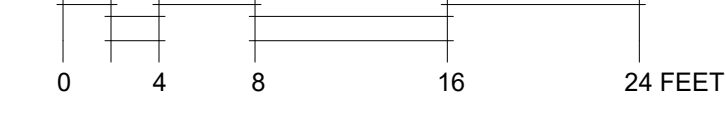
- NOTES**
1. PROVIDE 48"x24" TITUS MODEL 50F EGG-GRATE EXHAUST GRILLE OR APPROVED EQUAL.
 2. 24"x24" EXHAUST DUCT UP TO FAN ON ROOF ABOVE. REFER TO M102 FOR CONTINUATION.
 3. ROUTE 4" ROUND OSA DUCT INTO INTAKE KNOCKOUT ON CEILING CASSETTE UNIT. BALANCE FOR 25 CFM.
 4. 4" ROUND RIGID CLOTHES DRYER EXHAUST. ROUTE PER MANUFACTURERS INSTRUCTIONS TO WALL VENT CAP. PROVIDE CONTINUOUS FIRE WRAP FOR ENTIRE LENGTH OF DRYER EXHAUST DUCT.
 5. PROVIDE MIN 2'-0" UNIT CONNECTION SIZE RETURN PLENUM. ROUTE OSA DUCT OF SIZE SHOWN INTO RETURN PLENUM. PROVIDE MVD AND BALANCE FOR OSA INDICATED ON SCHEDULE.
 6. PROVIDE PERFORATED FACE DIFFUSERS IN KITCHEN EQUAL TO TITUS PAS.
 7. 6" ROUND EXHAUST FROM DRYING CABINET UP TO ROOF ABOVE. REFER TO M102 FOR CONTINUATION. BASED ON ALLIANCE LAUNDRY SYSTEMS GER10-SVG GEAR DRYING CABINET.
 8. 10" ROUND GREASE EXHAUST UP TO KEF-1 ON ROOF ABOVE. REFER TO M102 FOR CONTINUATION. PROVIDE CONTINUOUS 2HR FIRE WRAP FOR ENTIRE LENGTH OF GREASE DUCTWORK. PROVIDE CLEANOUTS EVERY 20' AND EVERY CHANGE IN DIRECTION.
 9. ROUTE 4" ROUND RIGID DRYER EXHAUST DUCT DOWN THROUGH WALL TO DRYER BOX WITH ROUND ORIFICE (OVAL ORIFICE WILL NOT BE ACCEPTED). 4" DRYER FLEX DUCT CAN BE USED TO CONNECT FROM DRYER BOX TO DRYER CONNECTION.



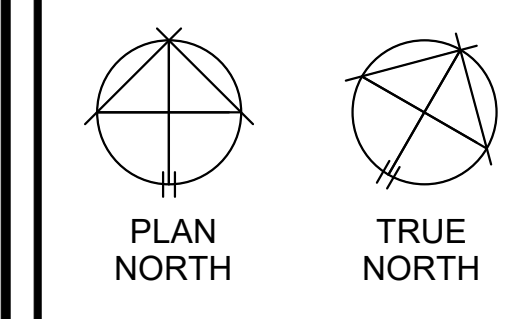
1 HVAC - LEVEL 1 FLOOR PLAN



2 HVAC - MEZZANINE FLOOR PLAN



TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



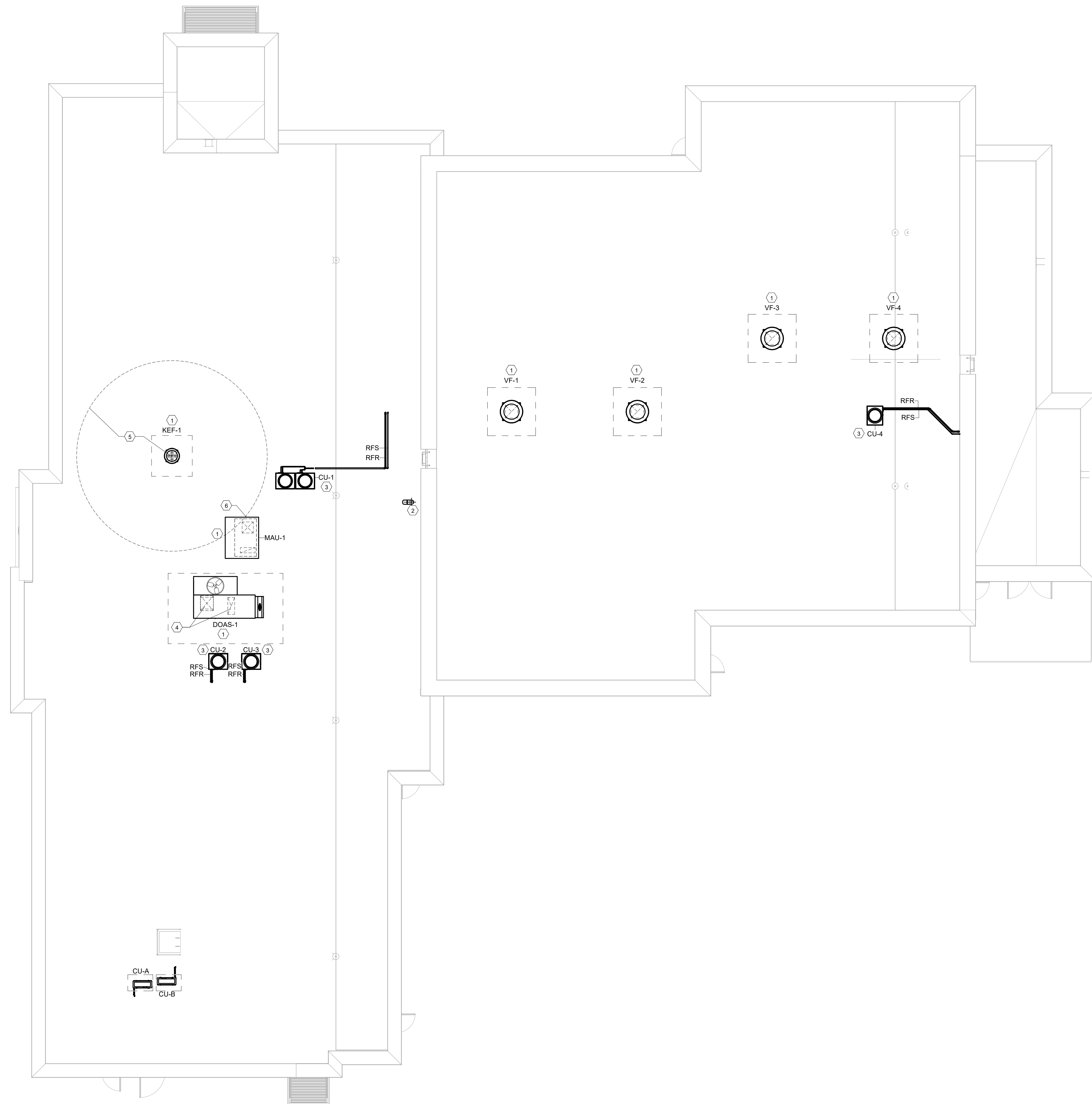
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M101



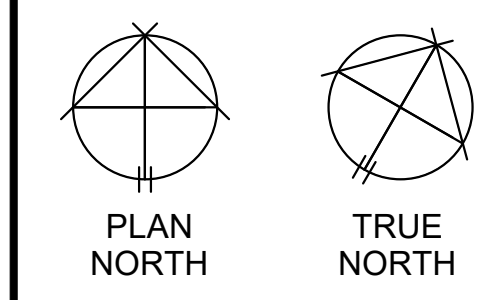
- NOTES**
1. MOUNT UNITS ON MIN 12" HIGH ROOF CURB. PROVIDE NEOPRENE RUBBER PADS BETWEEN UNIT AND CURB.
 2. EXHAUST FROM DRYING CABINET ON LEVEL BELOW. TERMINATE ABOVE ROOF LEVEL AT GOOSENECK TERMINATION. REFER TO DETAILS FOR MORE INFORMATION AND SHEET M101 FOR CONTINUATION.
 3. MOUNT CONDENSING UNITS ON MIN 6" HIGH RAILS.
 4. OUTSIDE AIR AND EXHAUST DUCT DOWN TO LEVEL BELOW. REFER TO M101 FOR CONTINUATION.
 5. KITCHEN GREASE EXHAUST FROM HOOD ON LEVEL BELOW. MAINTAIN MIN 15' SEPARATION BETWEEN EXHAUST OUTLET AND ANY INTAKES INTO THE BUILDING. PROVIDE 5'x5' GREASEGUARD TO PROTECT ROOF FROM GREASE BUILDUP. PROVIDE HINGED ACCESS BOX FOR CLEANING.
 6. KITCHEN MAKEUP AIR TO LEVEL BELOW. REFER TO M101 FOR CONTINUATION.



1 HVAC - ROOF PLAN



TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



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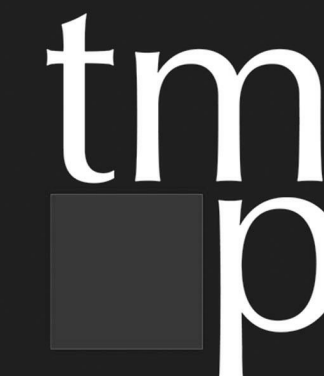
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HVAC - ROOF PLAN

M102



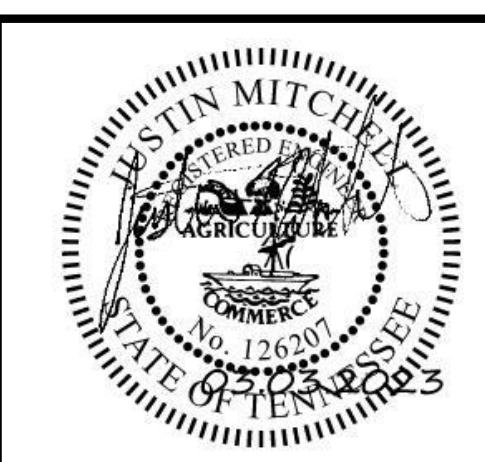
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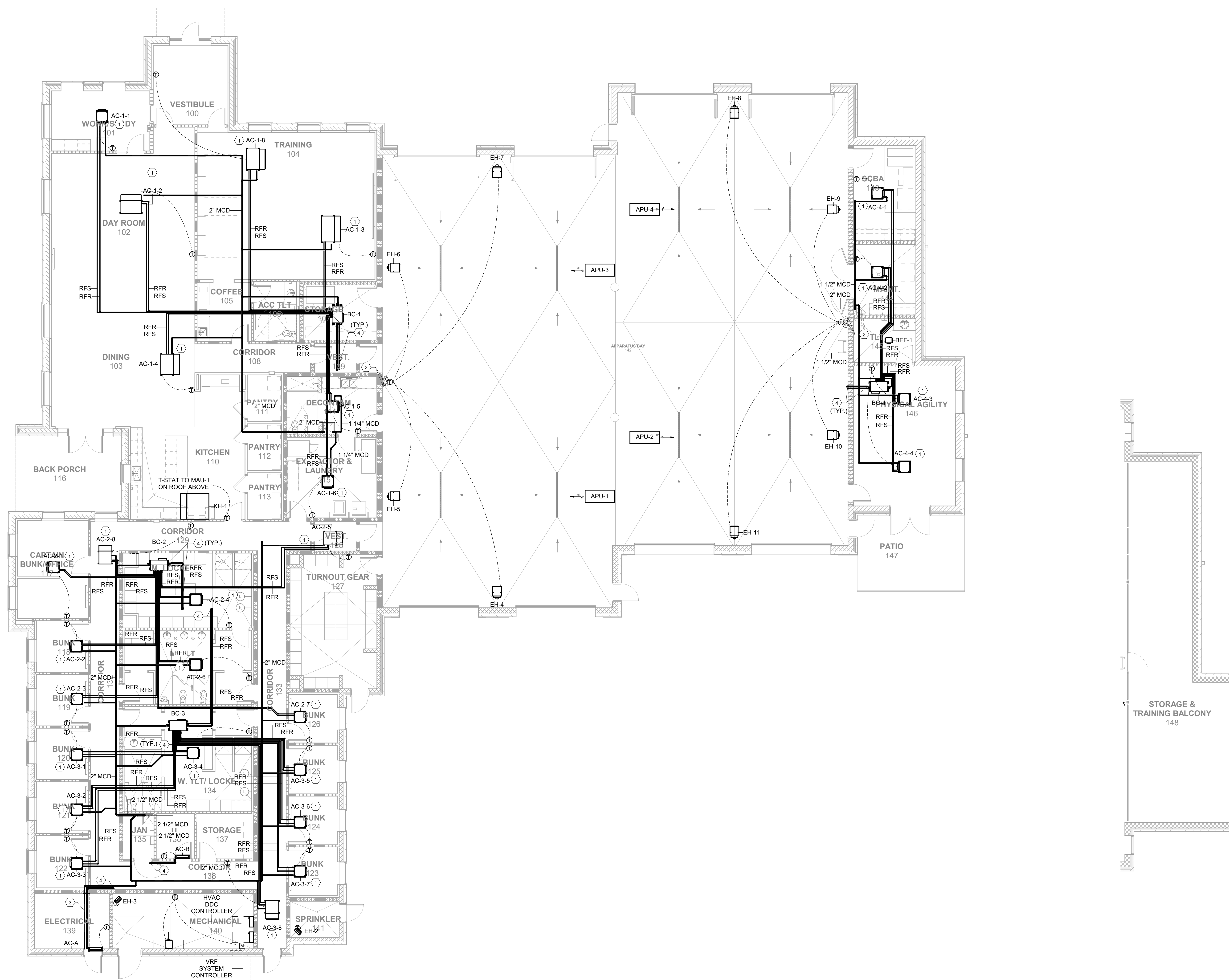
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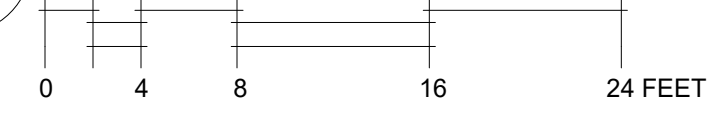


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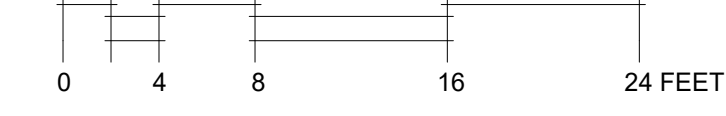
1. ALL INDOOR VRF UNITS TO HAVE INTEGRAL CONDENSATE PUMP TO DISPOSE OF CONDENSATE. ROUTE CONNECTION SIZED PUMPED CONDENSATE BACK TO MAIN AND GRAVITY DRAIN TO NEAREST FLOOR DRAIN OR JANITOR SINK. TERMINATE AT 2" AIR GAP. CONDENSATE SENSORS TO BE INTERLOCKED WITH VF-1,2,3,4 OPERATION.
2. DO NOT PASS ANY PIPING OVER TOP OF ELECTRICAL EQUIPMENT.
3. ROUTE REFRIGERANT SUPPLY AND RETURN PIPING PER MANUFACTURER RECOMMENDATIONS. REFER TO M102 FOR PIPING ON ROOF.



1 PIPING - LEVEL 1 FLOOR PLAN

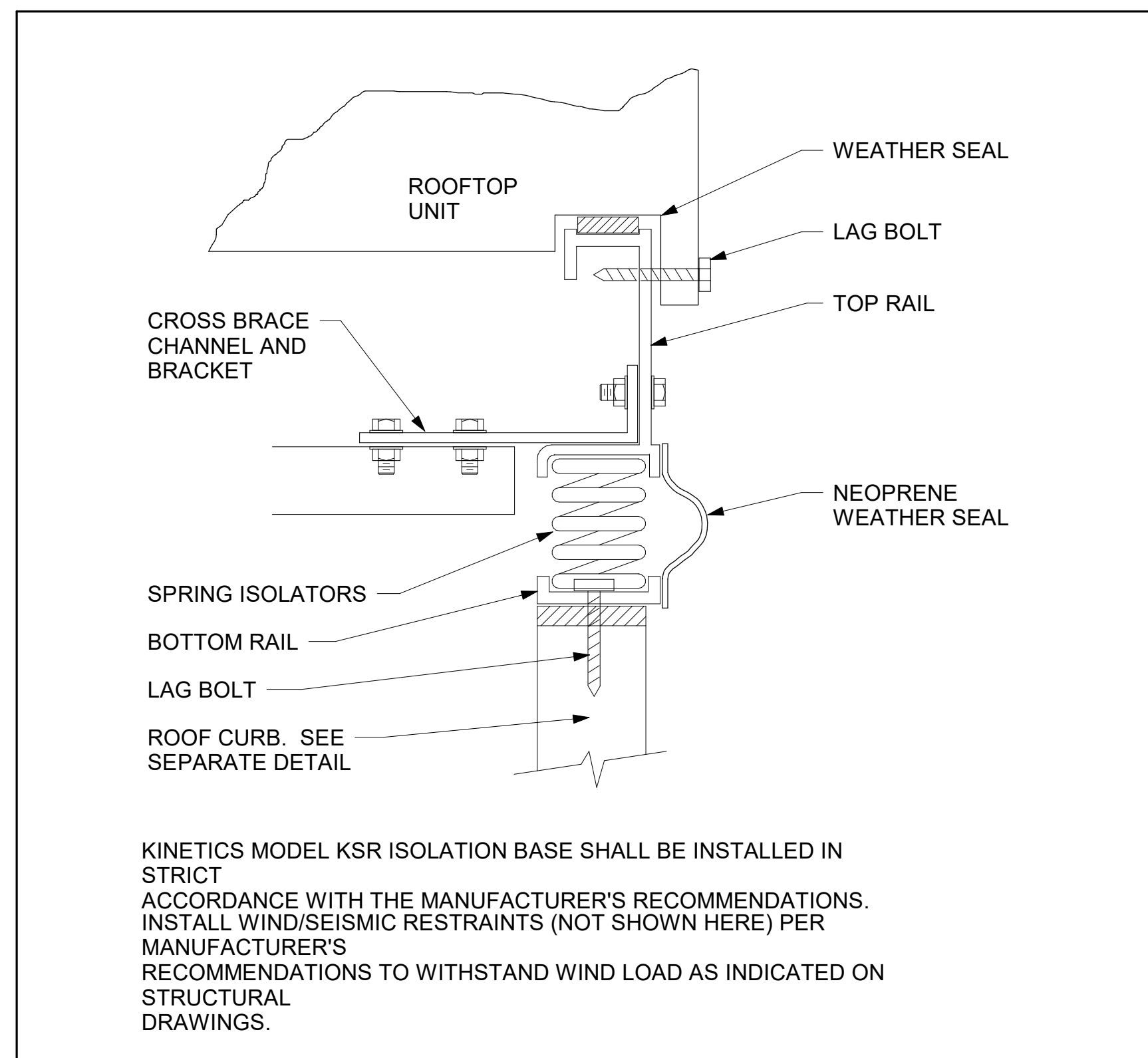


2 PIPING - MEZZANINE FLOOR PLAN



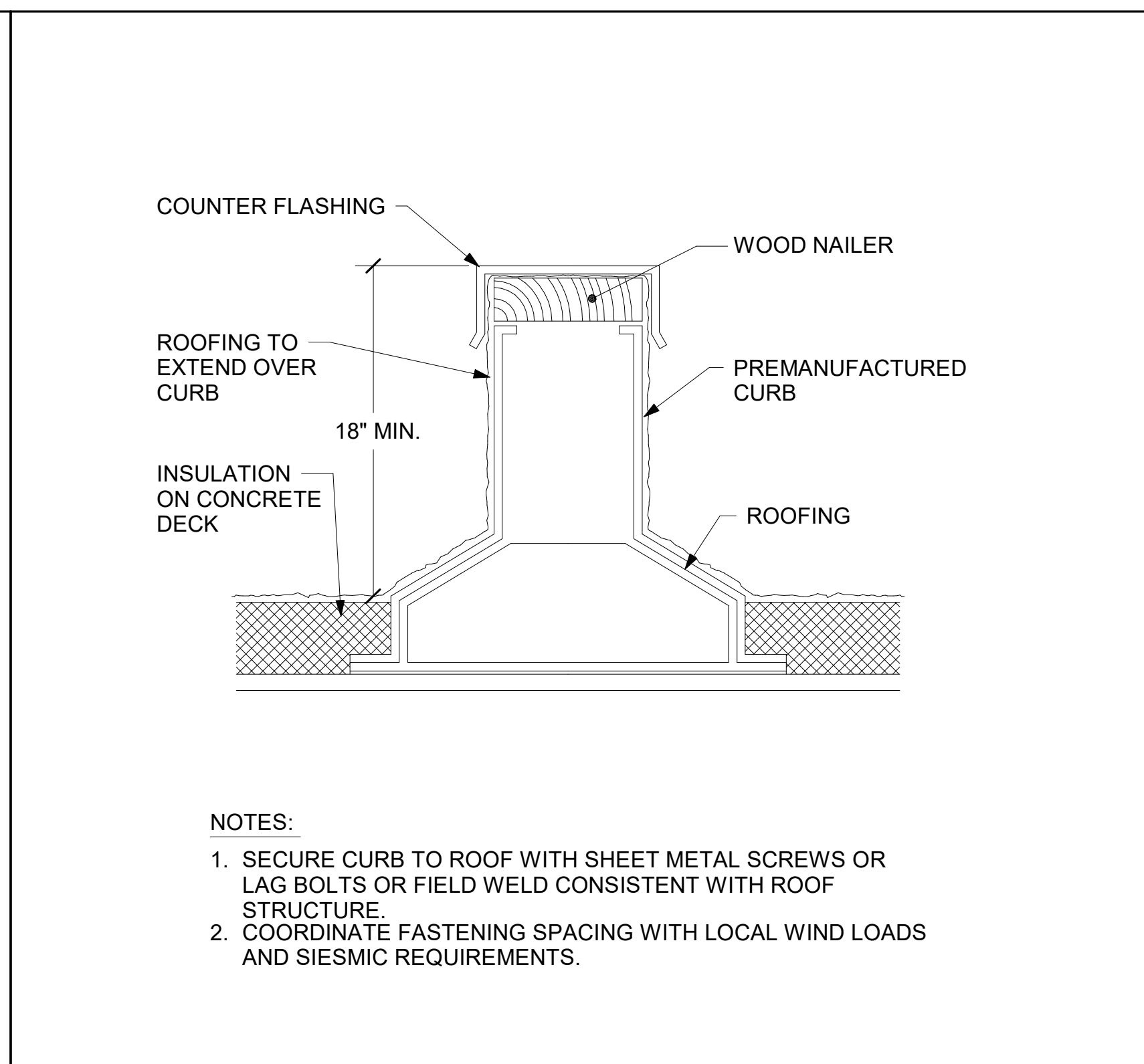
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PIPING - LEVEL 1 FLOOR PLAN	



ROOFTOP UNIT VIBRATION ISOLATION BASE
No Scale

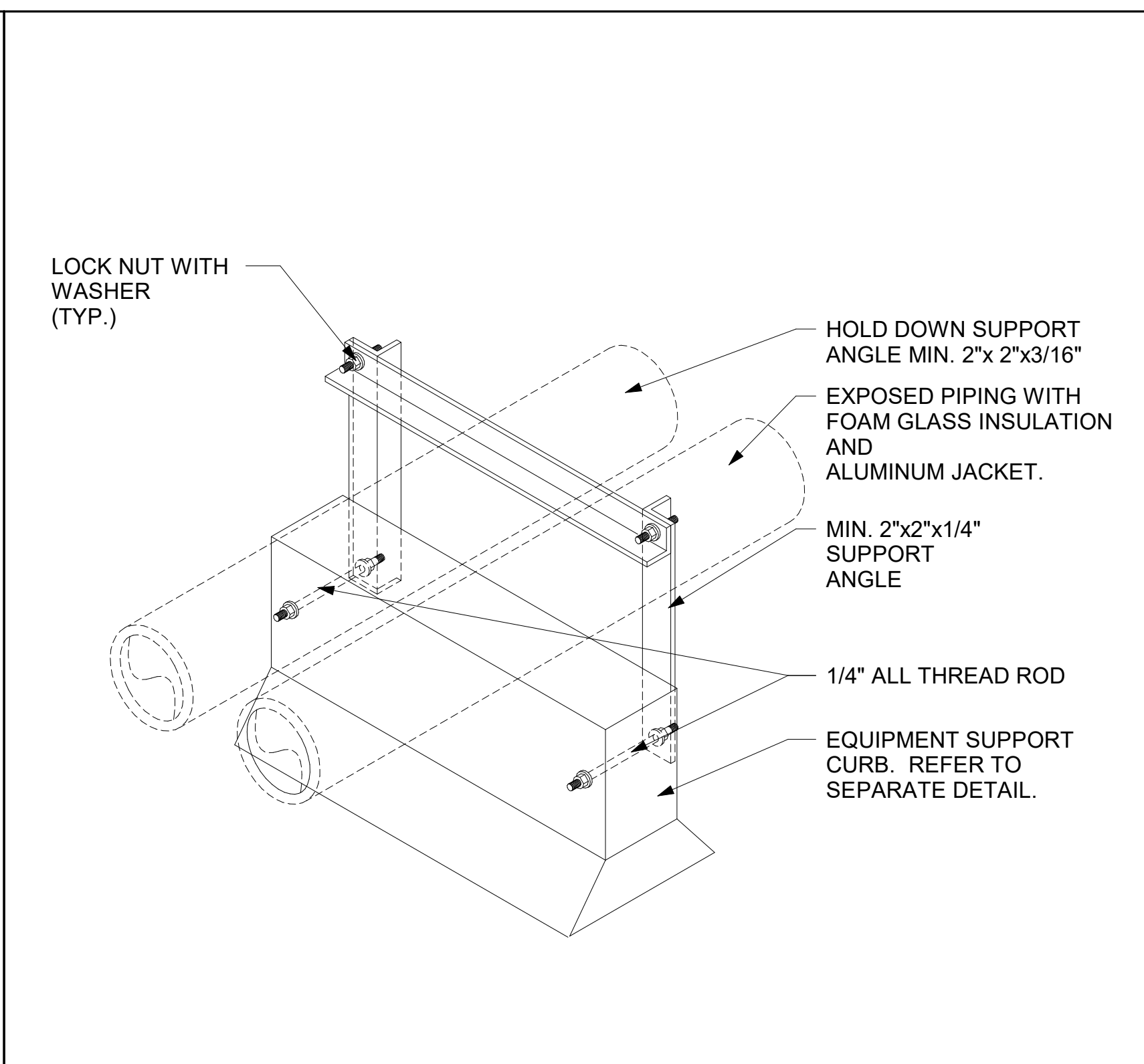
1



NOTES:
1. SECURE CURB TO ROOF WITH SHEET METAL SCREWS OR LAG BOLTS OR FIELD WELD CONSISTENT WITH ROOF STRUCTURE.
2. COORDINATE FASTENING SPACING WITH LOCAL WIND LOADS AND SIESMIC REQUIREMENTS.

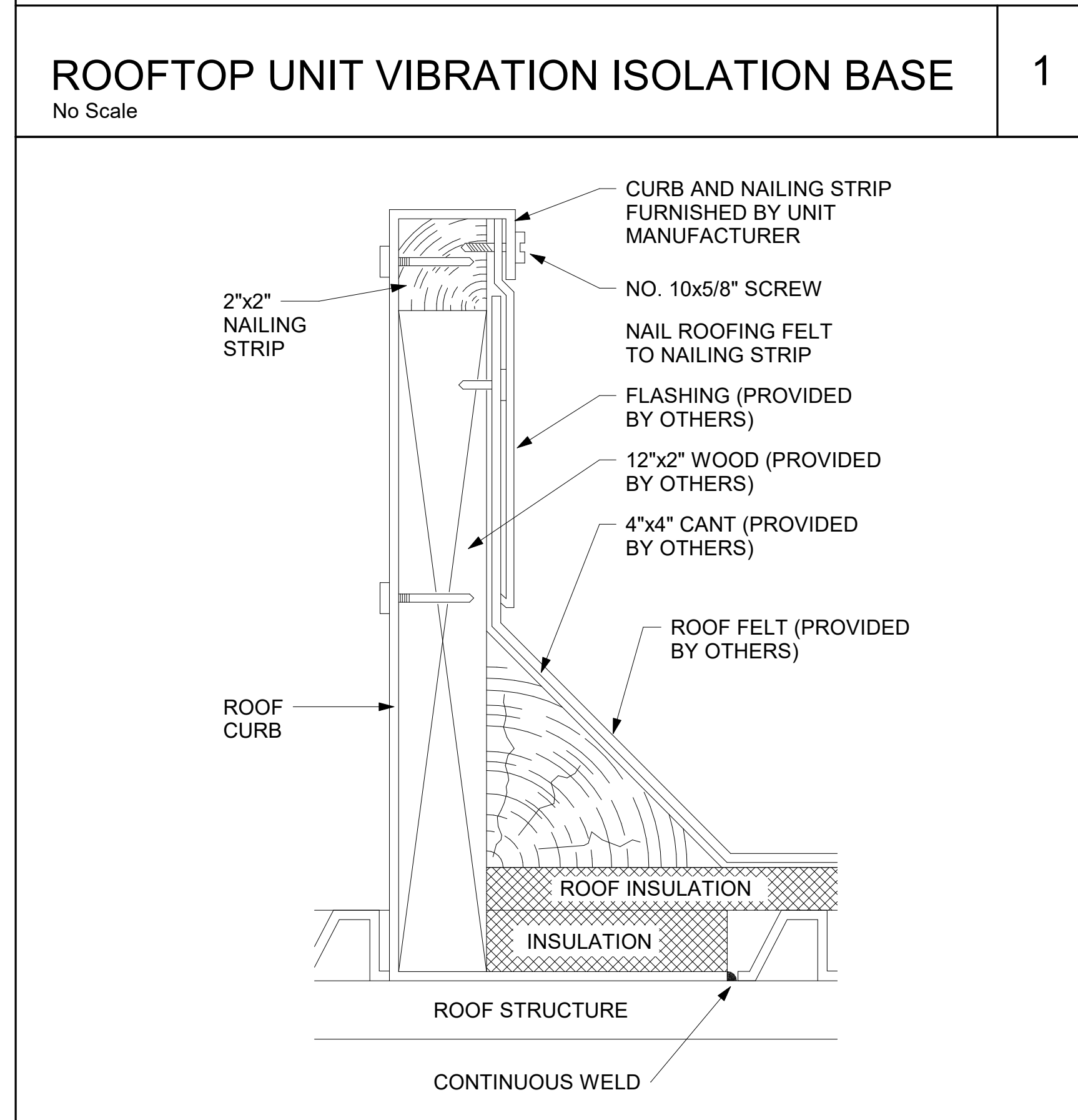
EQUIPMENT SUPPORT CURB
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2



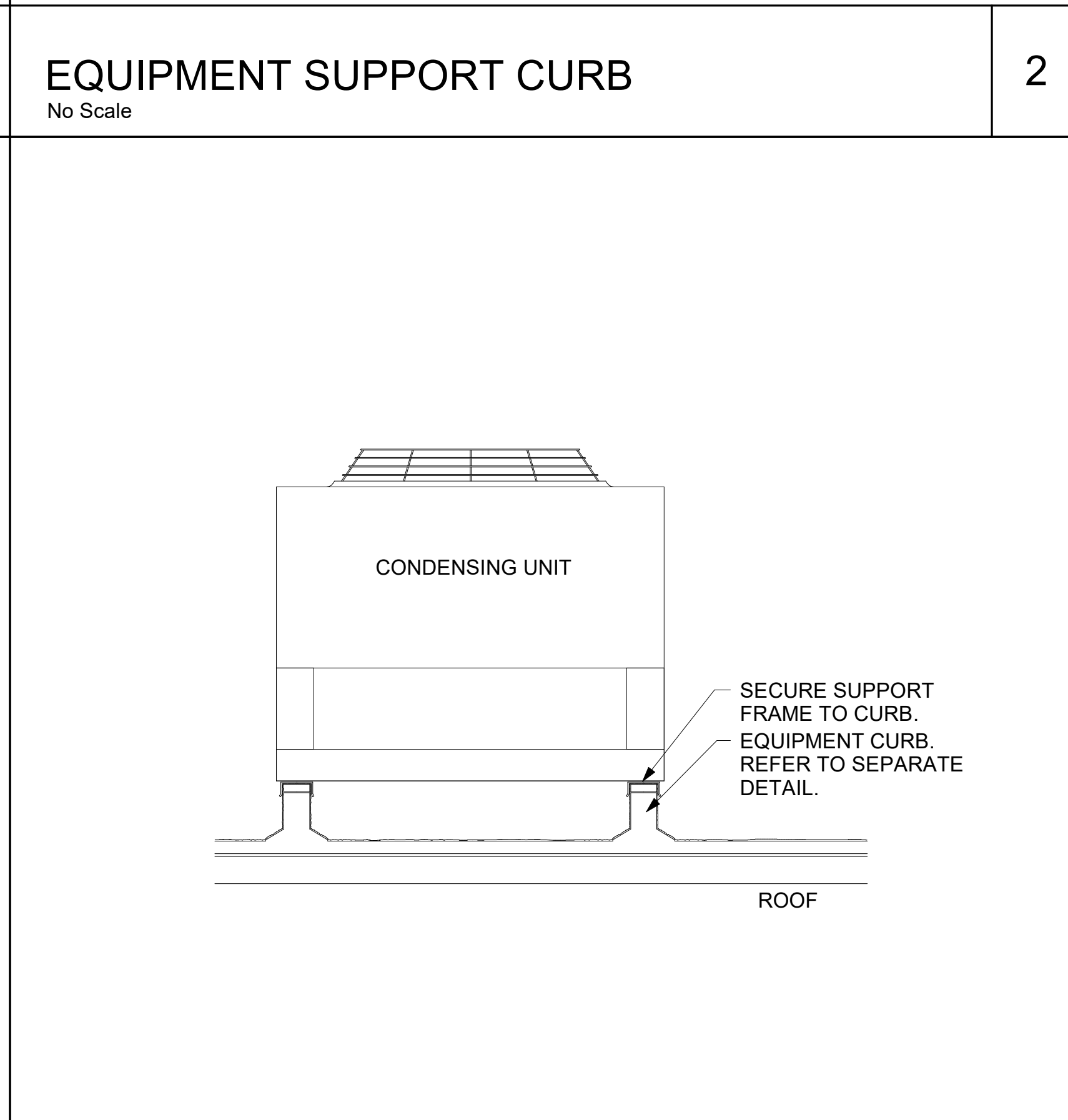
PIPE SUPPORT ON ROOF DETAIL
No Scale

3



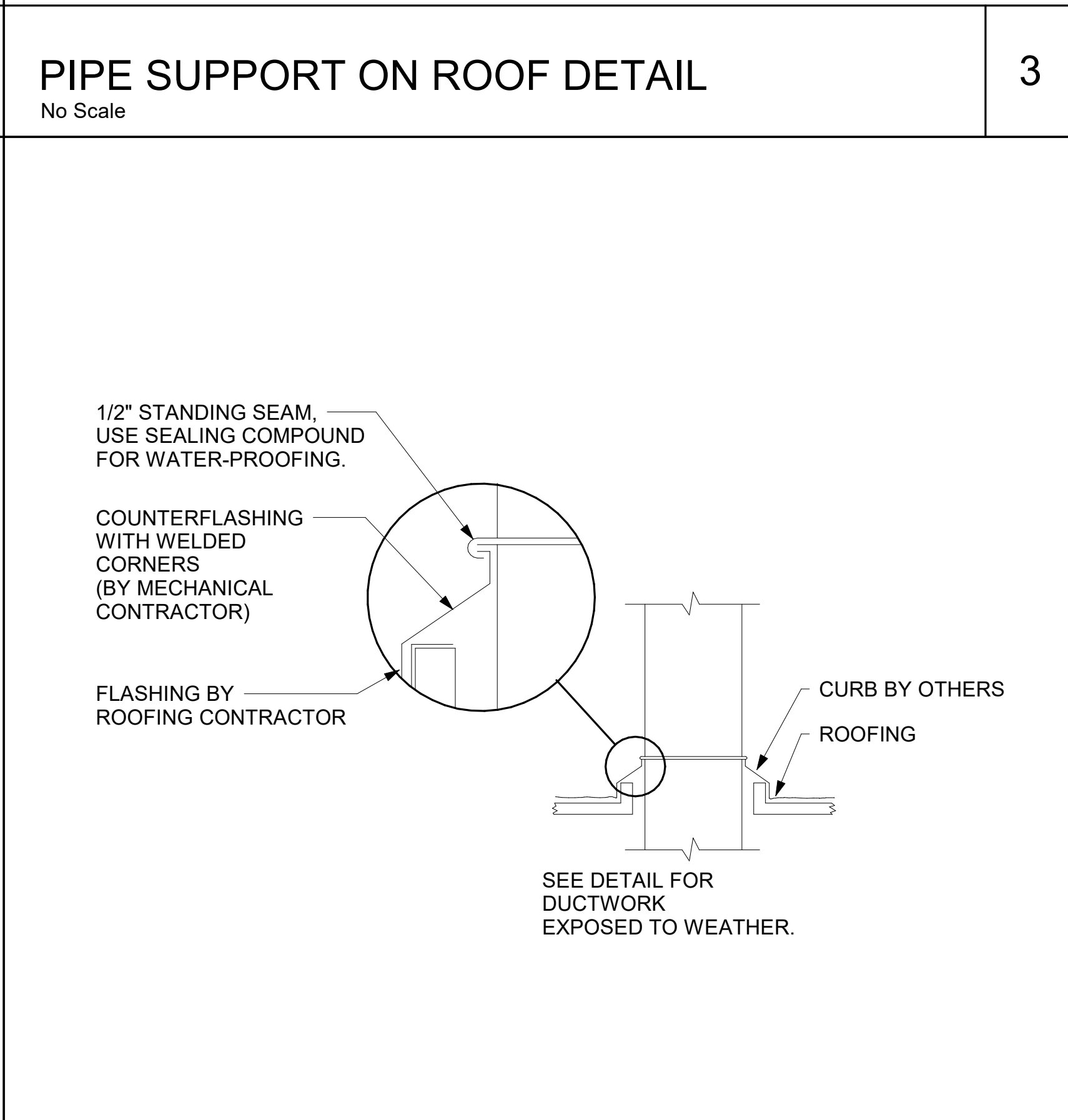
ROOFTOP UNIT CURB DETAIL
No Scale

4



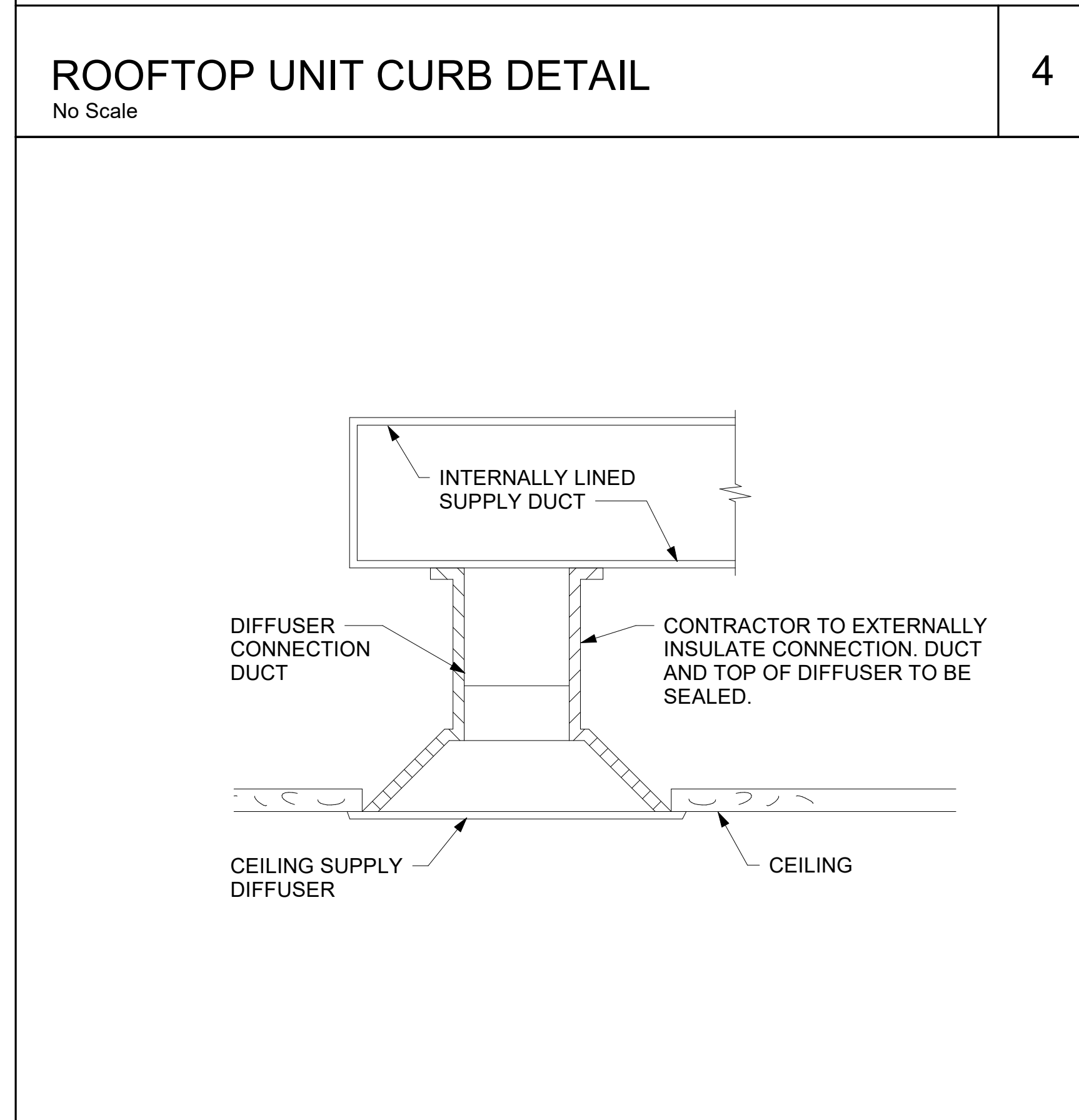
CONDENSING UNIT ON ROOF
No Scale

5



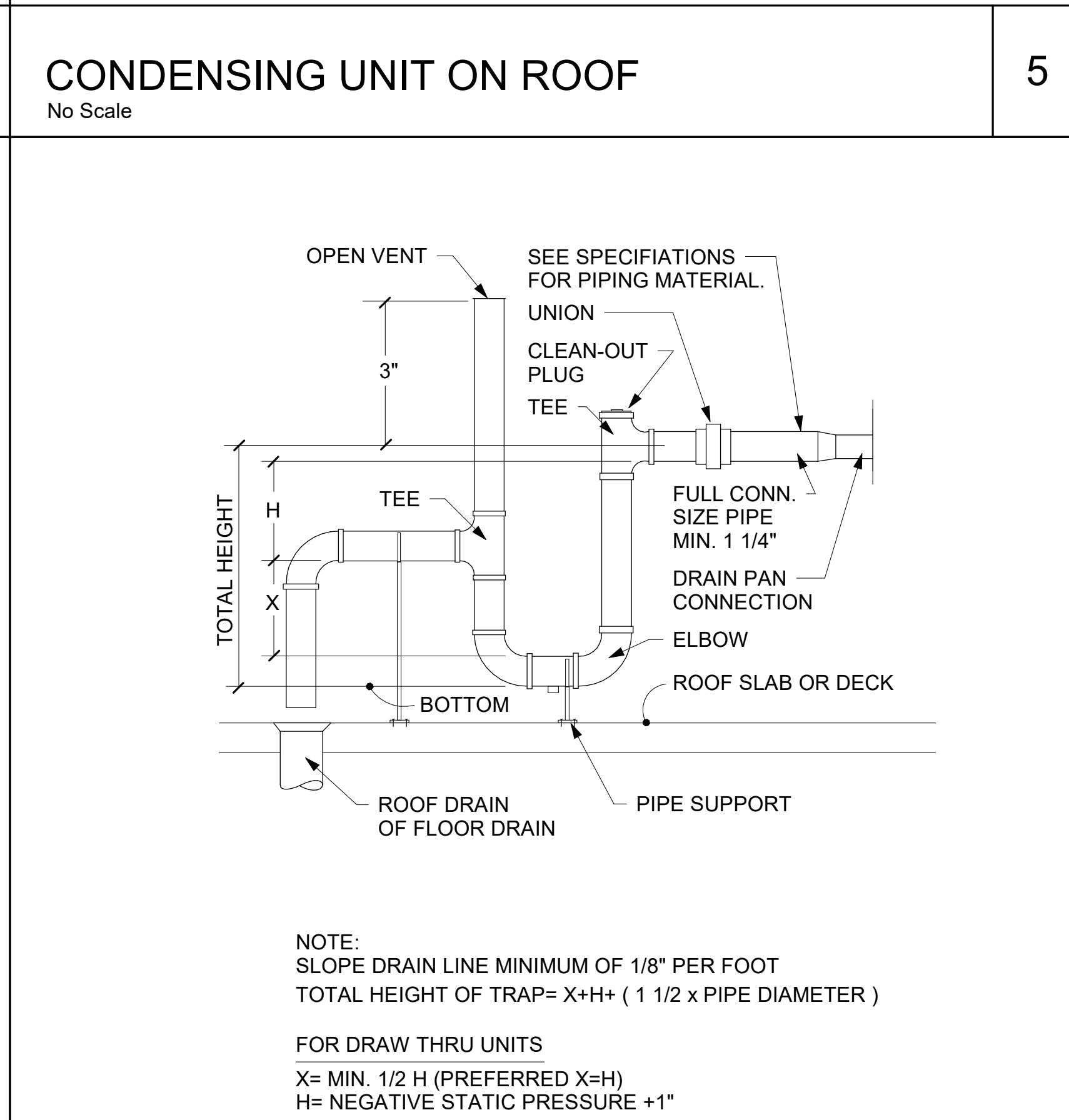
DETAIL OF DUCT THRU ROOF
No Scale

6



INSULATING DETAIL OF SUPPLY DIFFUSER
No Scale

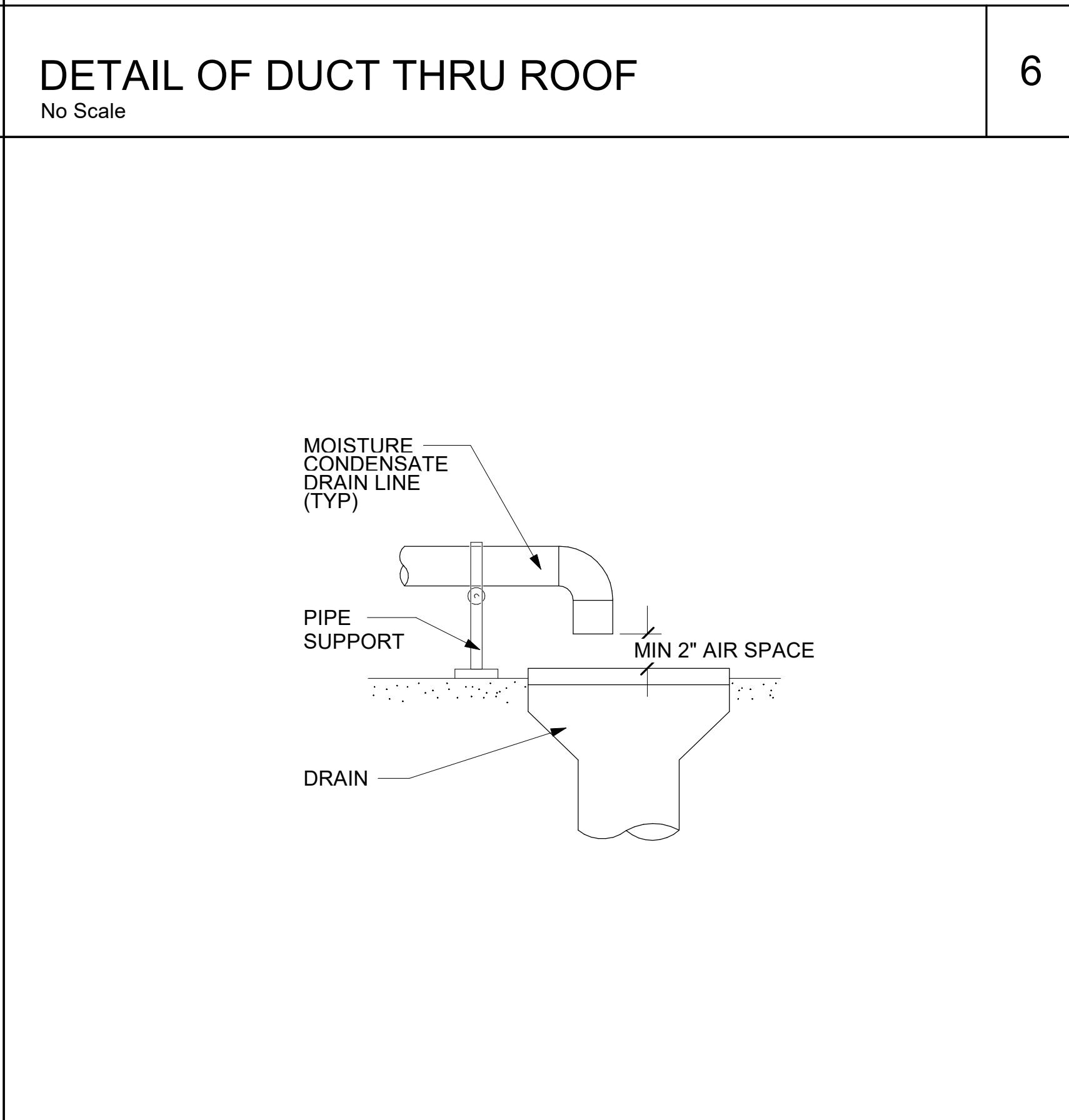
7



NOTE:
SLOPE DRAIN LINE MINIMUM OF 1/8\"/>

CONDENSATE DRAIN TRAP
No Scale

8



TERMINATION DETAIL OF MOISTURE CONDENSATE LINE
No Scale

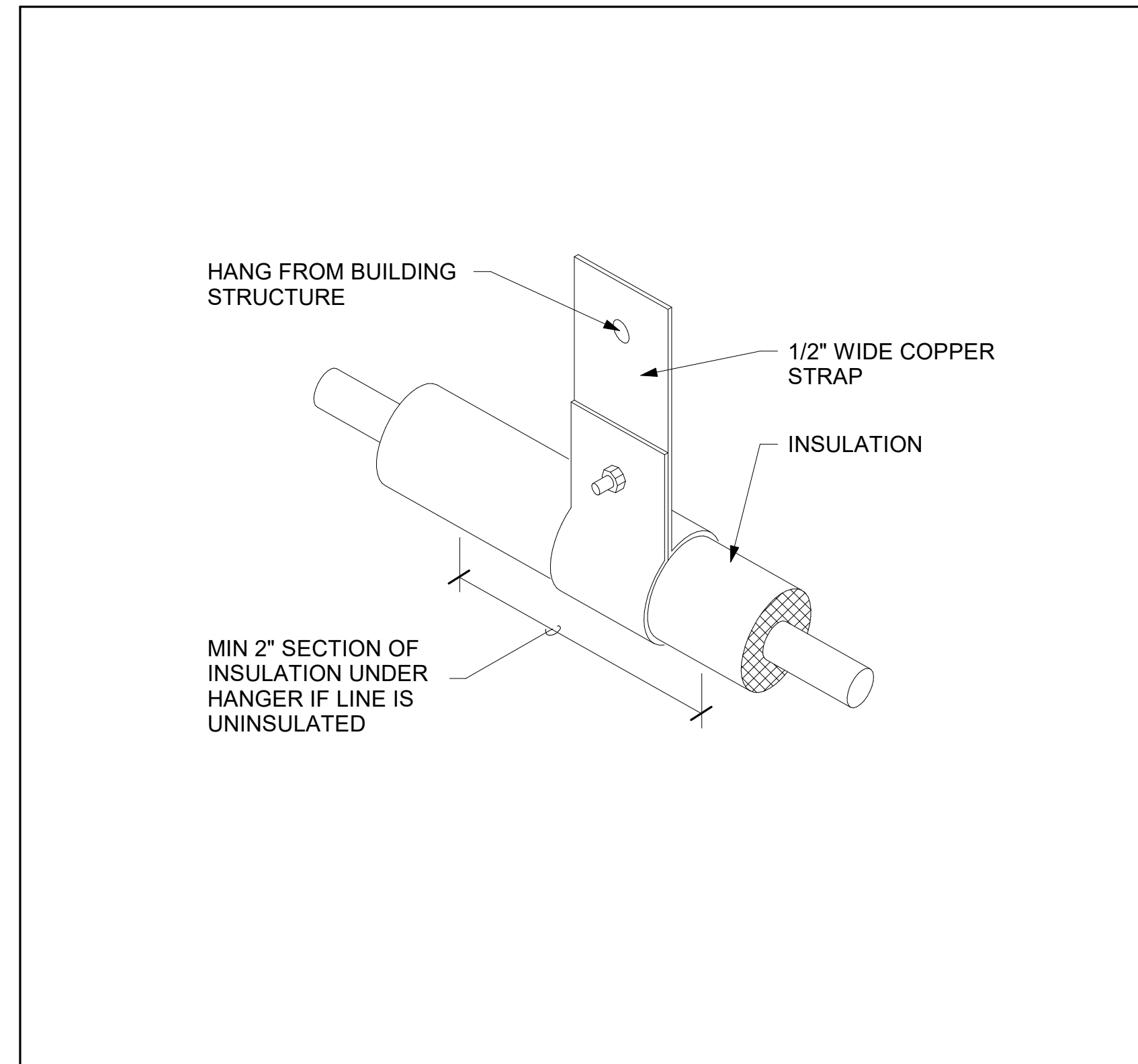
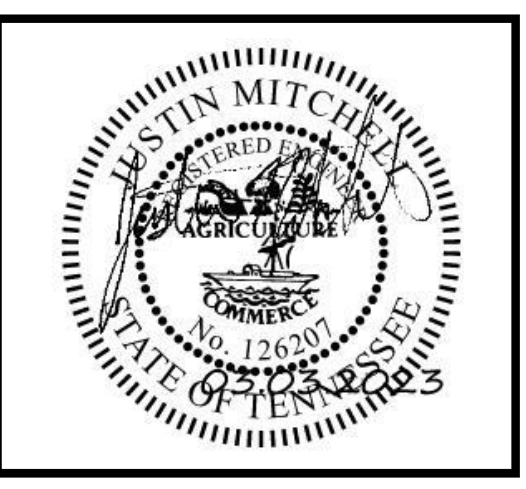
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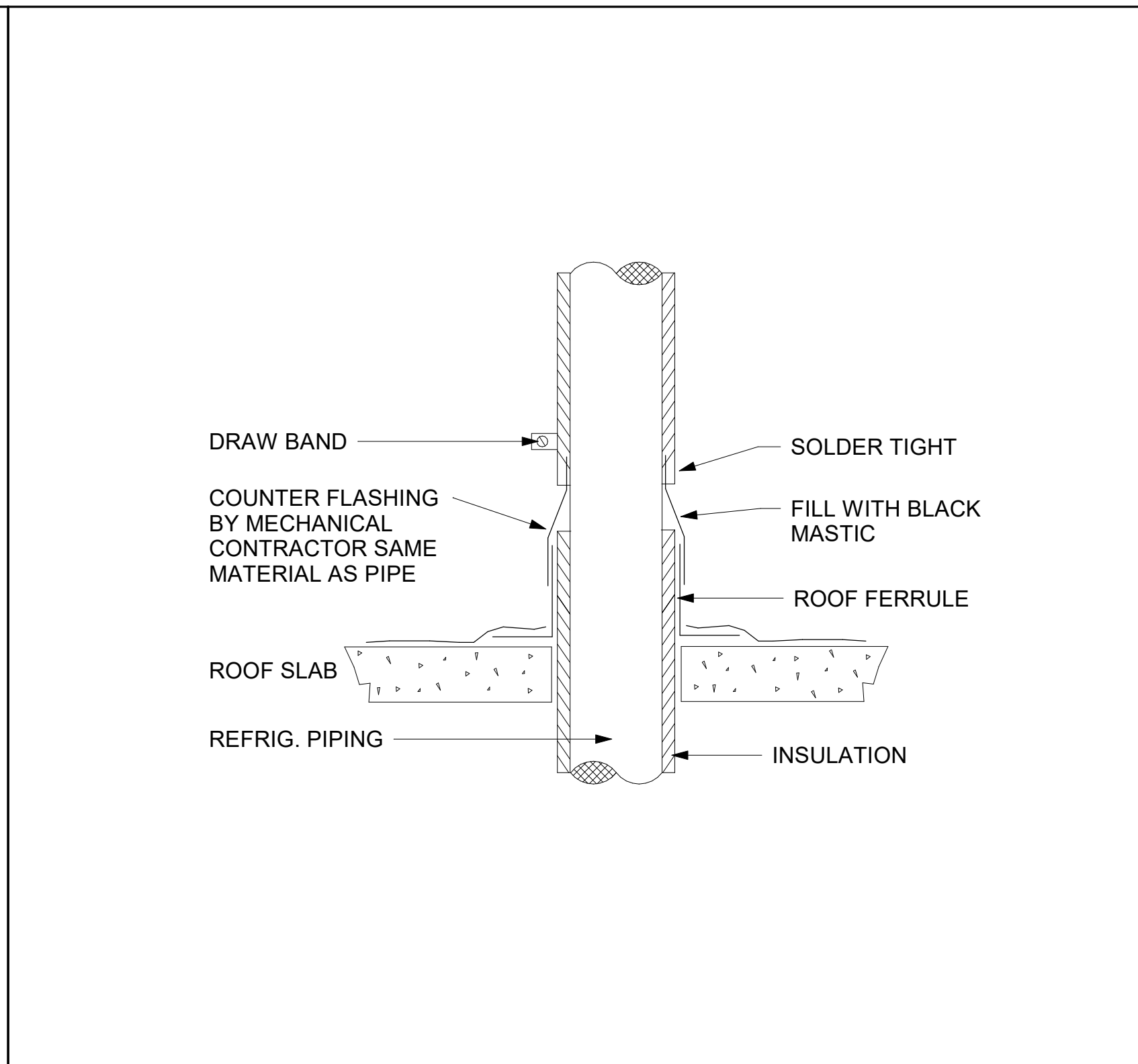
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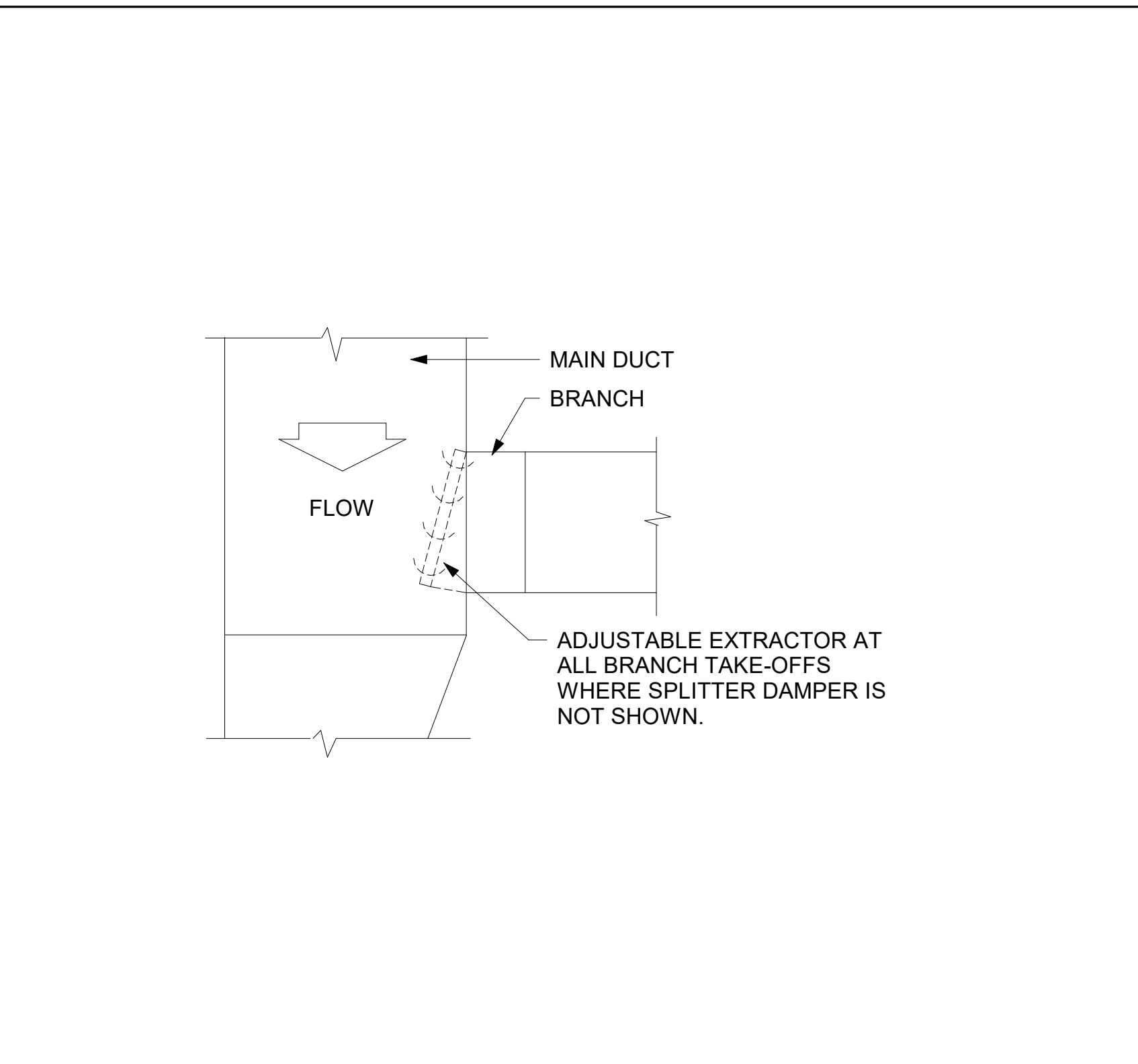
MECHANICAL DETAILS



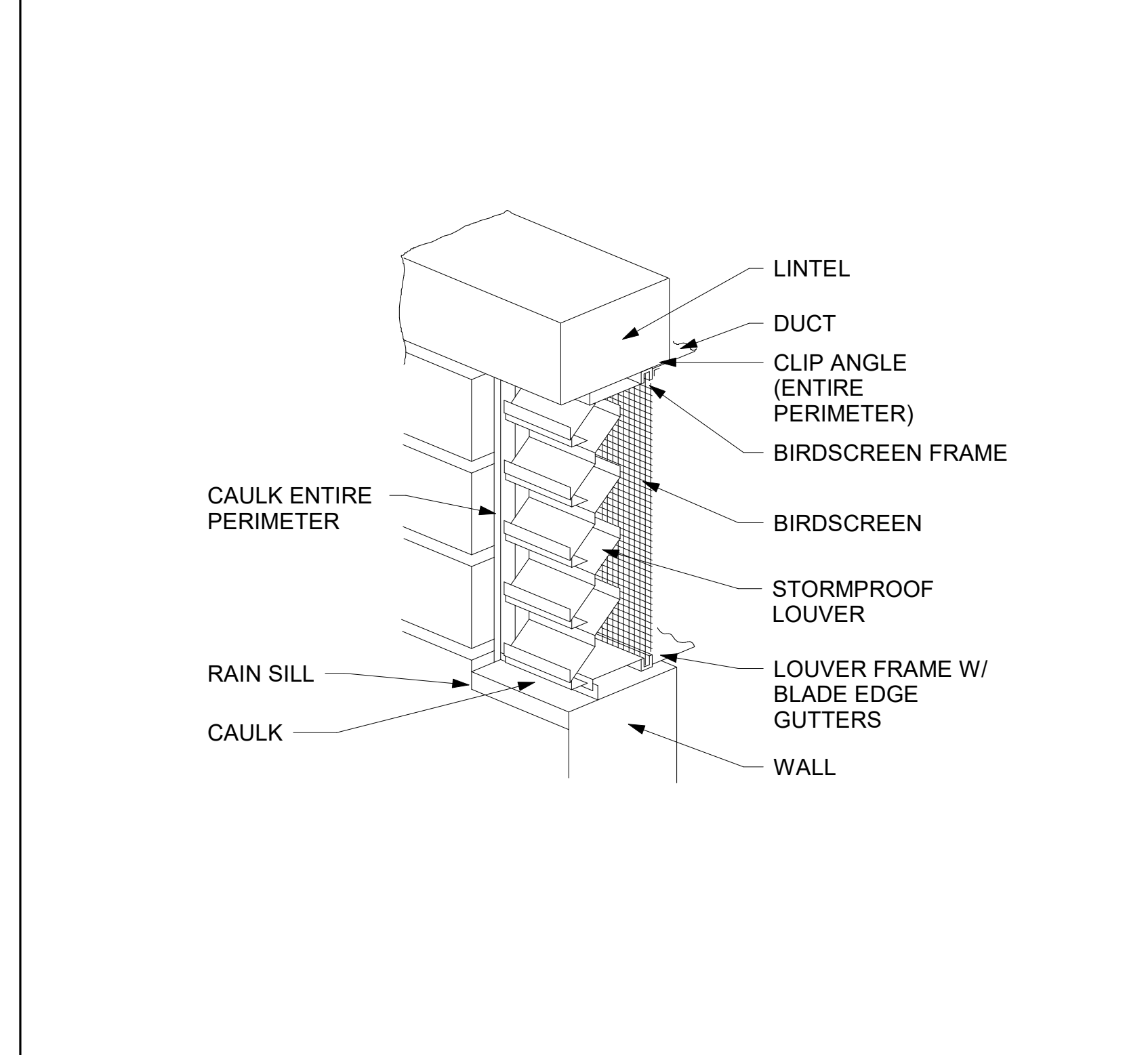
DETAIL FOR REFRIGERANT LINE HANGER
 No Scale



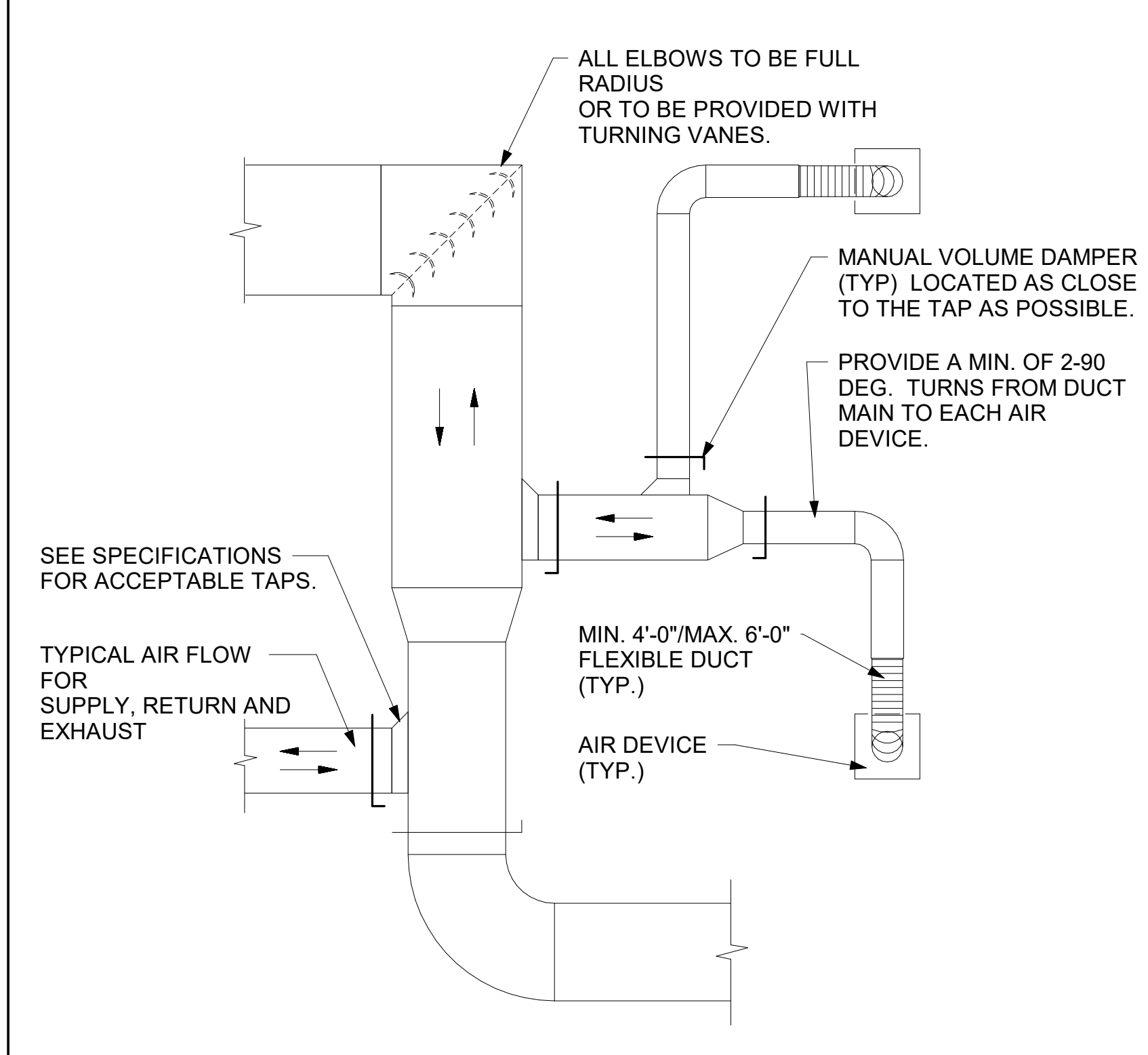
INSUL. REFRIG. PIPING THRU ROOF
 No Scale



DETAIL FOR BRANCH TAKEOFFS
 No Scale



TYPICAL HVAC WALL LOUVER
 No Scale



TYPICAL LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCT DETAIL
 No Scale

(A) RETAINING ANGLES: DETAILS MINIMUM 1 1/2"x1 1/2"x0.054 (16 GA.) RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MINIMUM AND COVER CORNERS OF OPENINGS.
 (B) CLEARANCE 1/8" PER LINEAR FOOT BOTH DIMENSIONS (SEE NOTE #1 BELOW.)
 (C) STEEL SLEEVE: GAUGE AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS.
 (D) APPROVED FIRE DAMPER (CURTAIN OR BLADE TYPE)
 (E) SECURE RETAINING ANGLES TO SLEEVE ONLY, ON 8" CENTERS WITH:
 1. 1/2" LONG WELDS, OR PREFERRED
 2. 1/4" BOLTS AND NUTS, OR
 3. NO. 10 STEEL SCREWS, OR
 4. MINIMUM 3/16" STEEL RIVETS
 (F) SECURE DAMPER TO SLEEVE ON 8" CENTERS WITH:
 1. 1/2" LONG WELDS, OR
 2. 1/4" BOLTS AND NUTS, OR
 3. NO. 10 STEEL SCREWS, OR
 4. MINIMUM 3/16" STEEL RIVETS
 (G) CONNECT DUCT TO SLEEVE AS REQUIRED BY THE MANUFACTURER.
 (H) INSTALL ACCESS DOOR OR PANEL FOR SERVICE AND INSPECTION. DOOR MUST BE LARGE ENOUGH TO CHANGE LINK.

REQUIRED. THE FIRE RESISTIVE MATERIALS SHALL BE EQUAL TO THE REQUIREMENTS FOR FIRE RESISTIVE WALL SO THAT A CONTINUOUS RATING EXISTS AT THE WALL PENETRATION. DETAILS
 THE FIRE DAMPER MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY U.L. MUST BE USED IN LIEU OF THE ABOVE DETAILS WHERE APPLICABLE.
 NOTE: NO CAULKING IS REQUIRED ON FIRE DAMPERS OR FIRE DAMPER RETAINING ANGLES.

DUCT MAY ATTACH TO SLEEVE OR DAMPER
 (C)
 (D)
 (F)
 DUCT
 (G) (TYPICAL)
 6" MAX. EACH SIDE

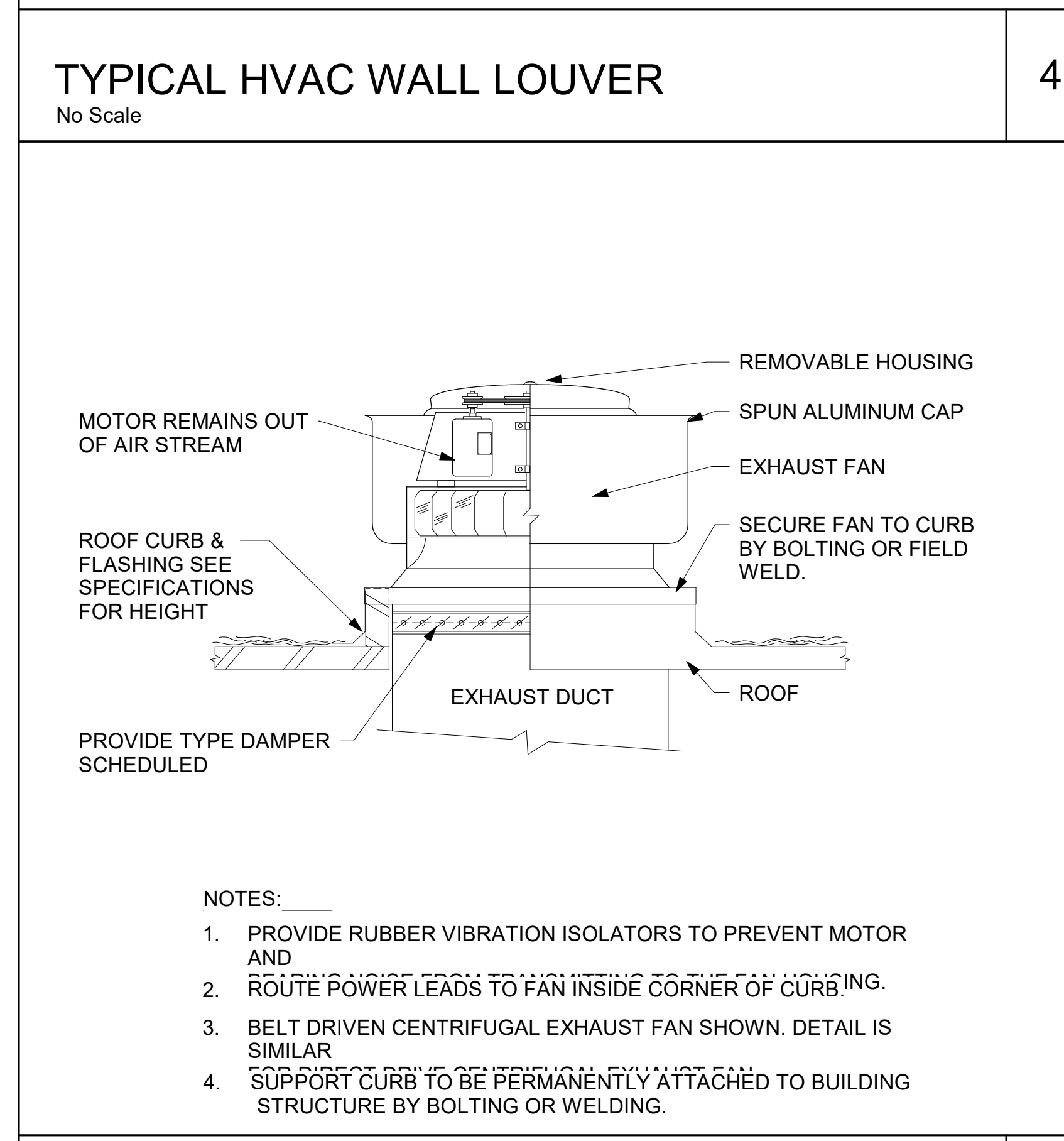
VERTICAL POSITION IS SHOWN, HORIZONTAL INSTALLATION IS SIMILAR. FOLLOW INSTALLATION INSTRUCTION FOR FUSIBLE LINKS. LINKS TO BE 165°F.

(C)
 (A) RETAINING ANGLE
 (G)
 (H)

NOTE: A DUCT MOUNTED SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCTWORK WITHIN FIVE FEET OF A COMBINATION FIRE/SMOKE DAMPER. SMOKE DETECTOR TO BE PROVIDED BY ELECTRICAL CONTRACTOR INSTALLED BY MECHANICAL CONTRACTOR.

PROVIDE A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT THE AHCA INSPECTION.

FIRE & FIRE/SMOKE DAMPERS
 No Scale



UPBLAST CENTRIFUGAL EXHAUST FAN
 No Scale

NOTES:
 1. FIRE DAMPER SLEEVE CLEARANCE WITHIN WALL OPENING.
 2. CLEARANCE REQUIREMENTS FOR DAMPER SLEEVES WITHIN A WALL OPENING IS BASED ON 1/8" INCH PER FOOT OF WIDTH (OR HEIGHT) UNLESS OTHERWISE STATED IN THE LISTING OF THE ASSEMBLY. THE SLEEVE MAY REST ON THE BOTTOM OF THE OPENING, AND NEED NOT BE CENTERED. (FRACTIONAL DIMENSIONS SHALL BE TAKEN AS THE NEXT LARGEST WHOLE FOOT.)
 EXAMPLE: A 30 INCH X 24 INCH FIRE DAMPER SLEEVE IS INSTALLED IN A WALL OPENING. THE OPENING SHALL BE 30 3/8 INCHES WIDE (1/8 INCH X 3 FEET) BY 24 1/4 INCHES HIGH (1/8 INCH X 2 FEET.)
 3. THE SLEEVE IS RETAINED IN THE WALL OPENING BY THE USE OF STEEL RETAINING ANGLES (A). THESE MUST OVERLAP THE EDGE OF THE FRAMING BY A MINIMUM OF ONE (1) INCH OVER AND BEYOND ALL MATERIAL IN THE OPENING. THIS MEANS THAT THE MINIMUM WIDTH OF THE RETAINING ANGLE WOULD BE 1 3/8 INCHES (GOOD PRACTICE CALLS FOR AN ADDITIONAL SAFETY FACTOR BY MAKING THE ANGLE IN THIS CASE 1 1/2 INCHES WIDE.) THE DIMENSIONS REQUIRED FOR THE OPENING SHALL BE THOSE REMAINING AFTER THE OPENING HAS BEEN FRAMED AND FIRE RESISTIVE MATERIALS PROVIDED WHERE.

FIRE & FIRE/SMOKE DAMPERS
 No Scale

TOWN OF NOLENSVILLE
 FIRE STATION #1
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 NOLENSVILLE, TENNESSEE

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CK. BY	ICT
PROJ. NO.	A01122
DATE	03/03/23

MECHANICAL DETAILS

M302

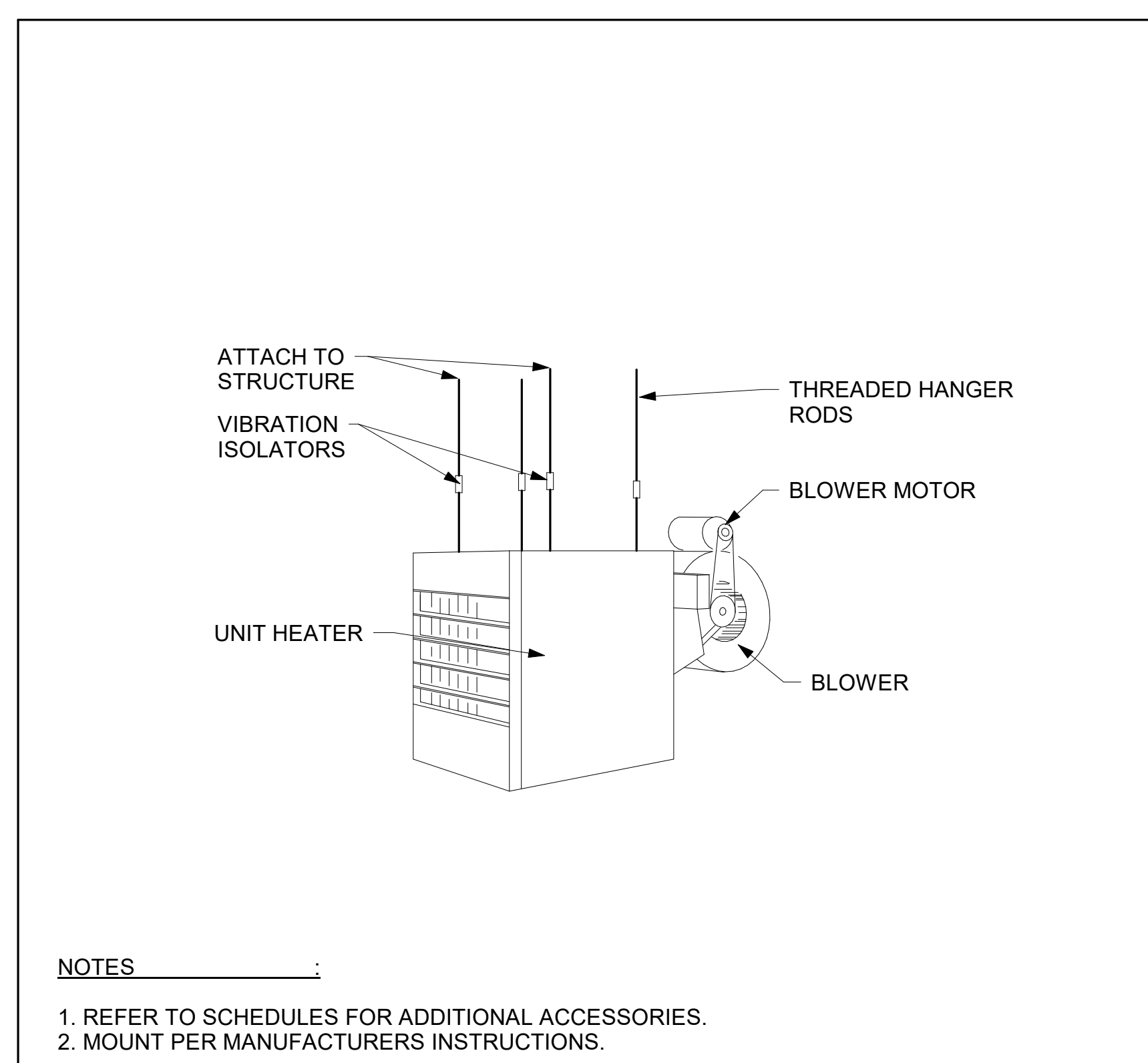
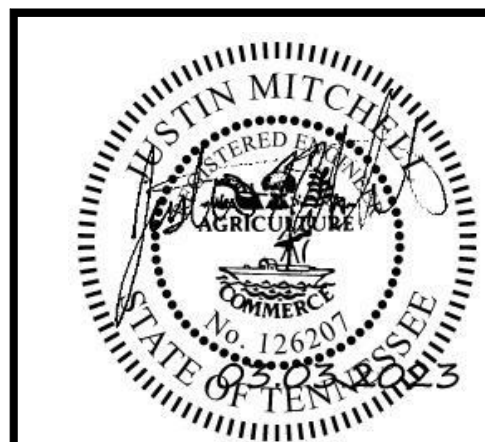


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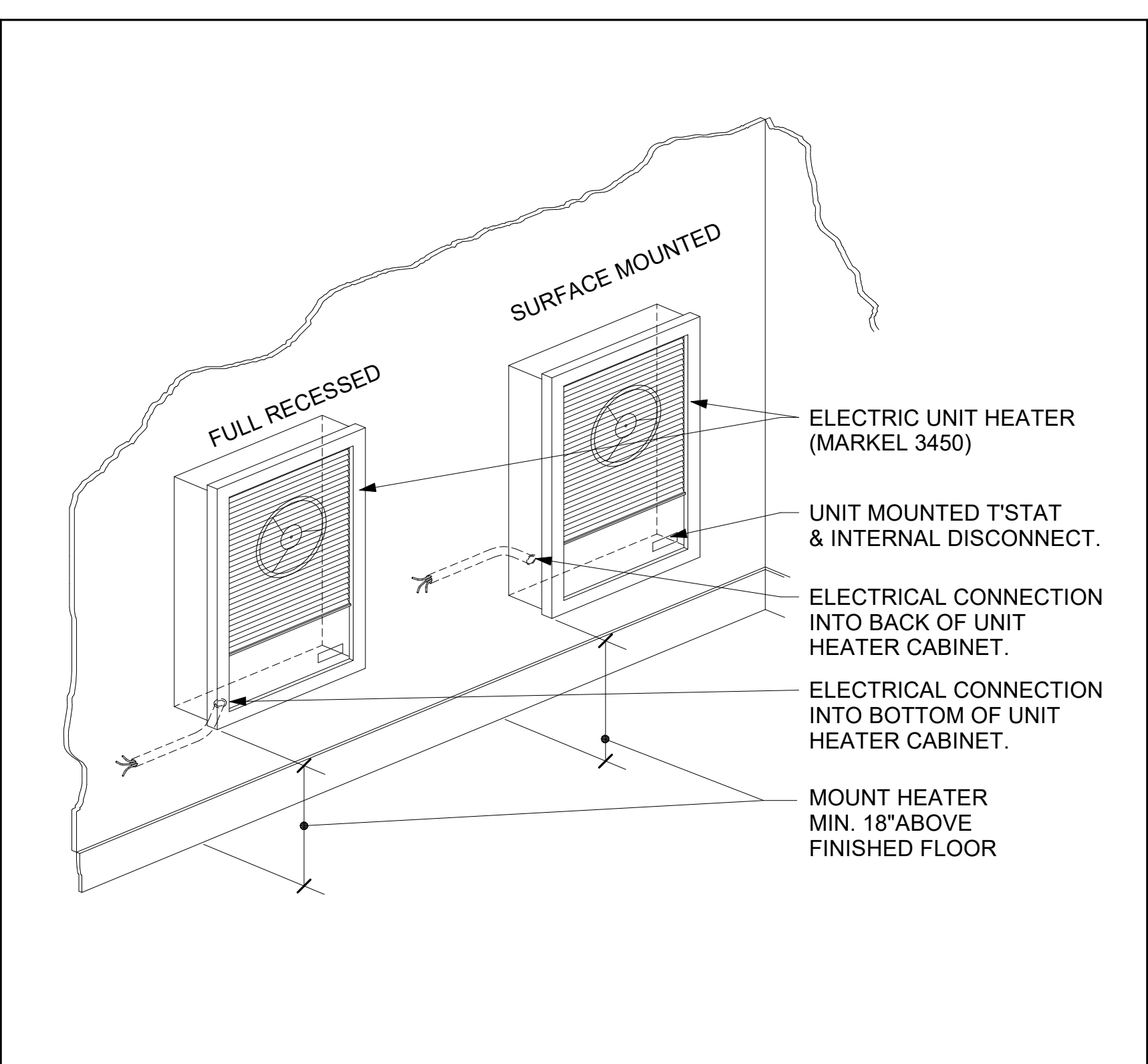
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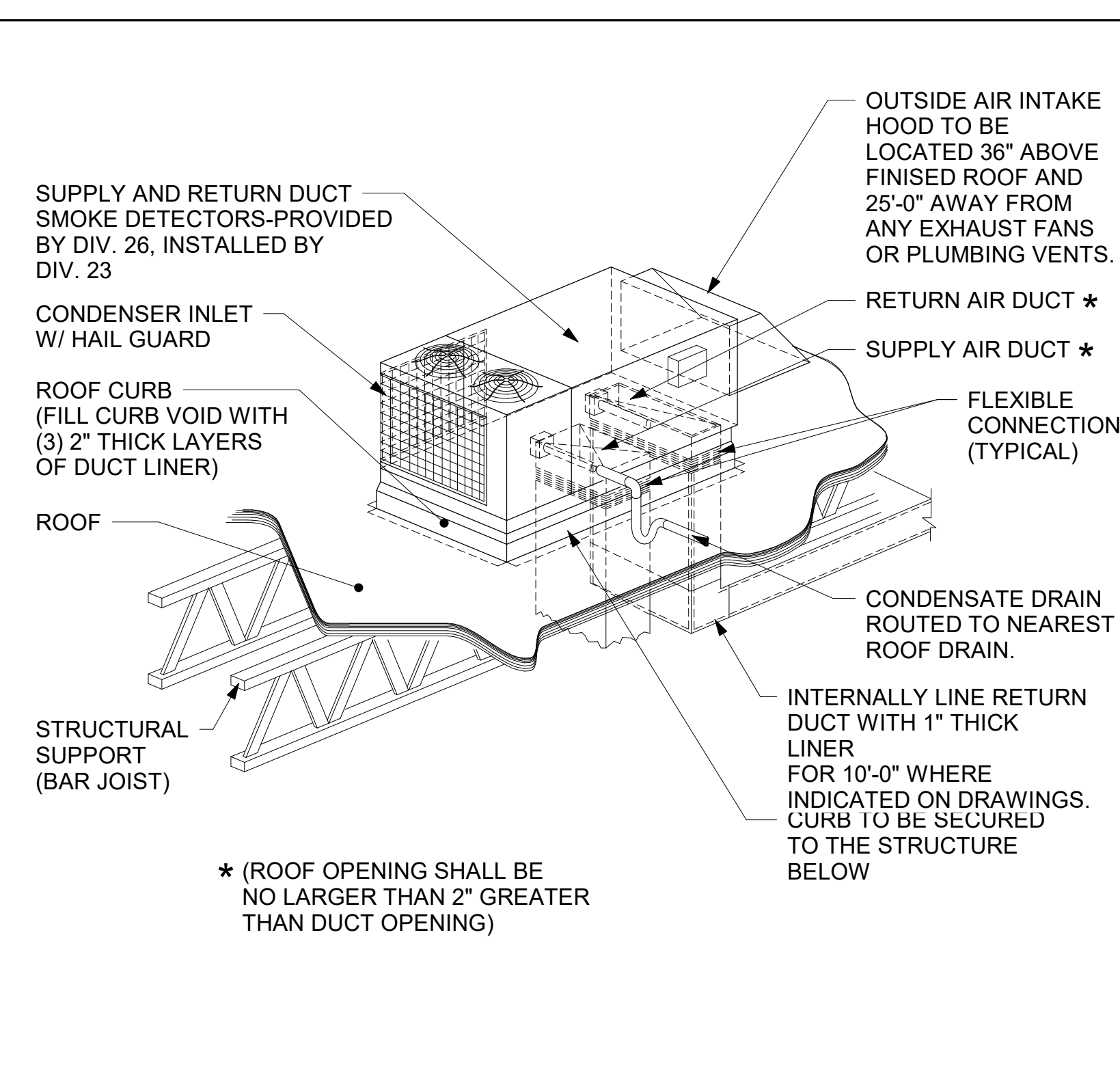


NOTES:
 1. REFER TO SCHEDULES FOR ADDITIONAL ACCESSORIES.
 2. MOUNT PER MANUFACTURERS INSTRUCTIONS.

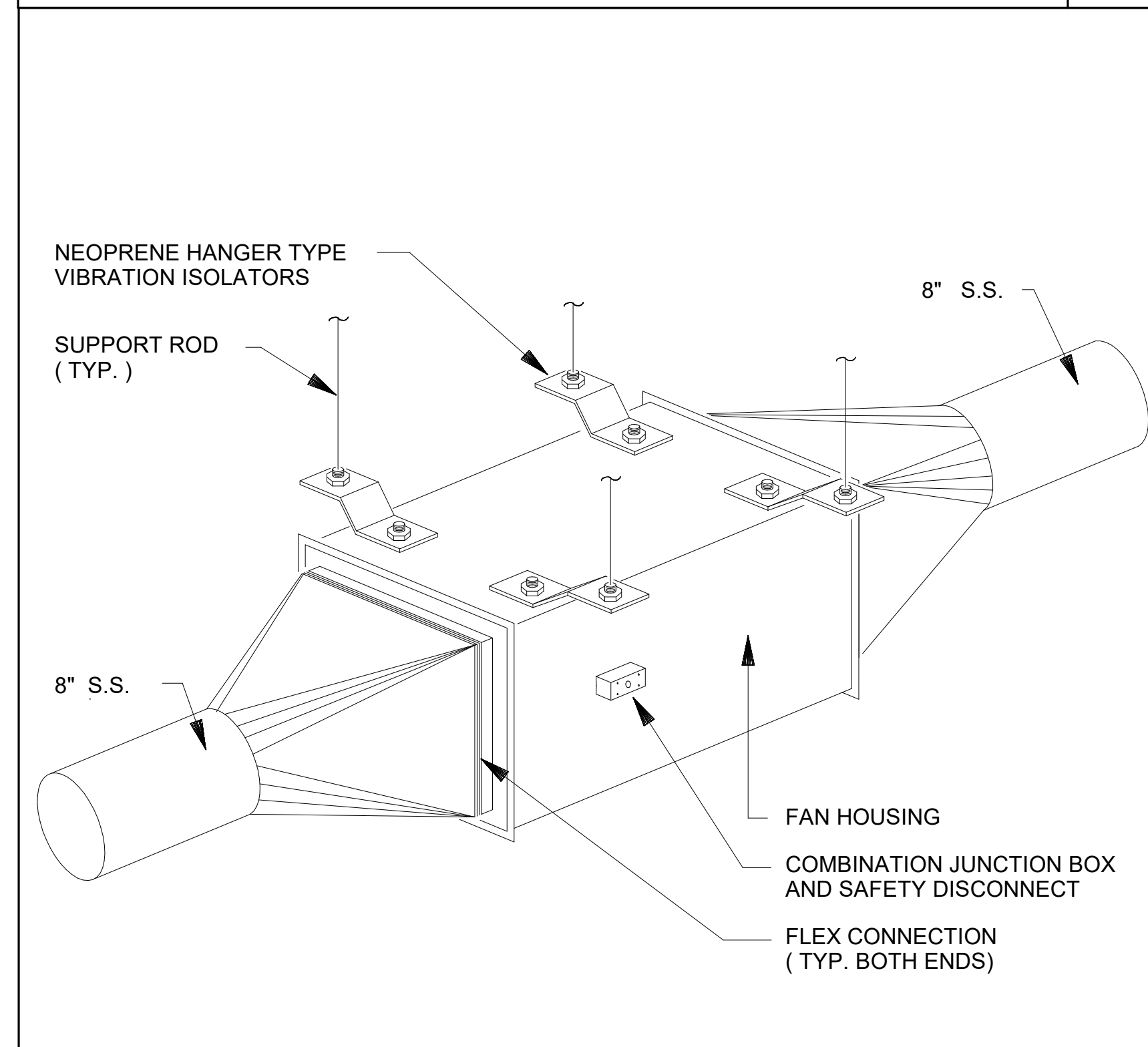
SUSPENDED ELECTRIC UNIT HEATER DETAIL 1
 No Scale



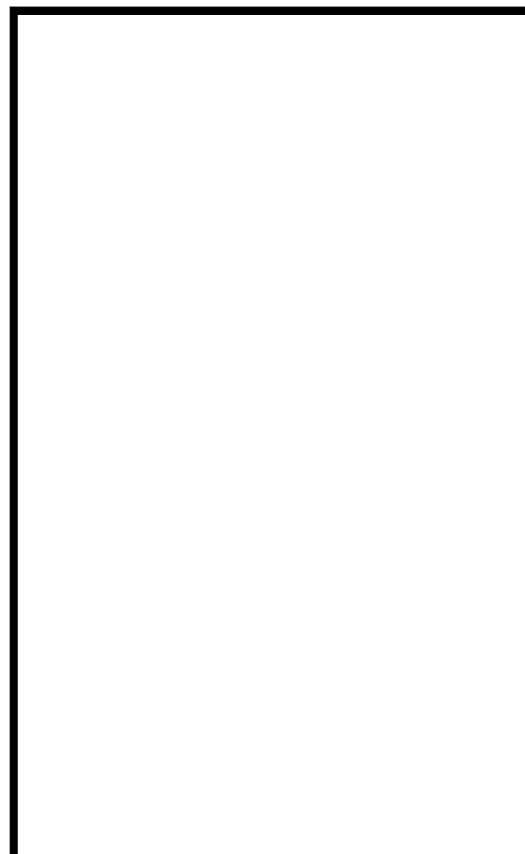
ELECTRIC UNIT HEATER MOUNTING DETAIL 2
 No Scale



PACKAGE RTU 3
 No Scale



IN-LINE EXHAUST FAN ABOVE CEILING MOUNTING DETAIL 4
 No Scale



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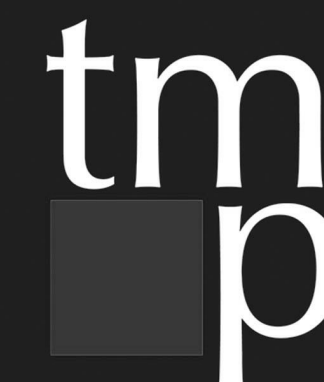
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 PROJ. NO. A01122
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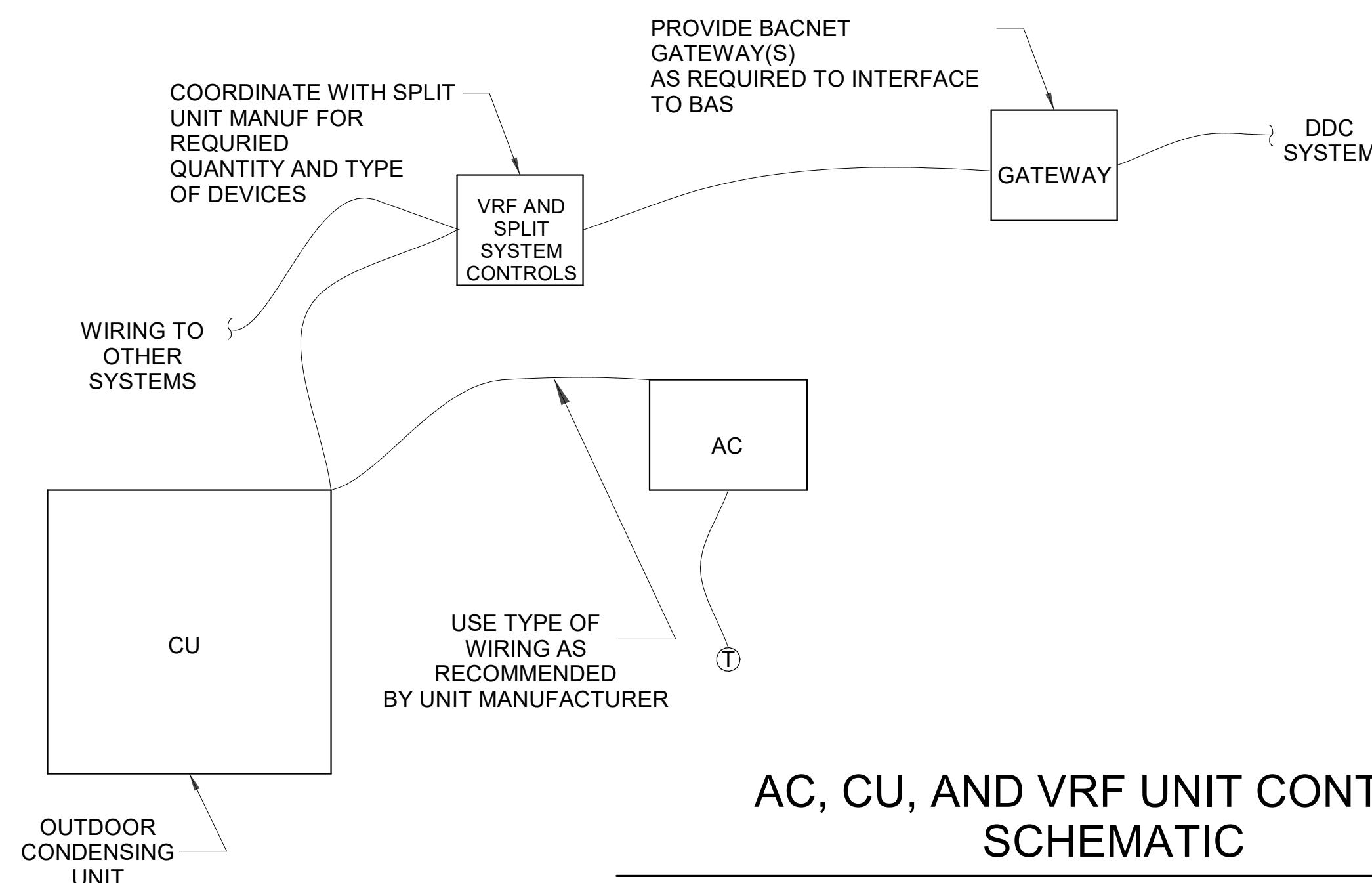


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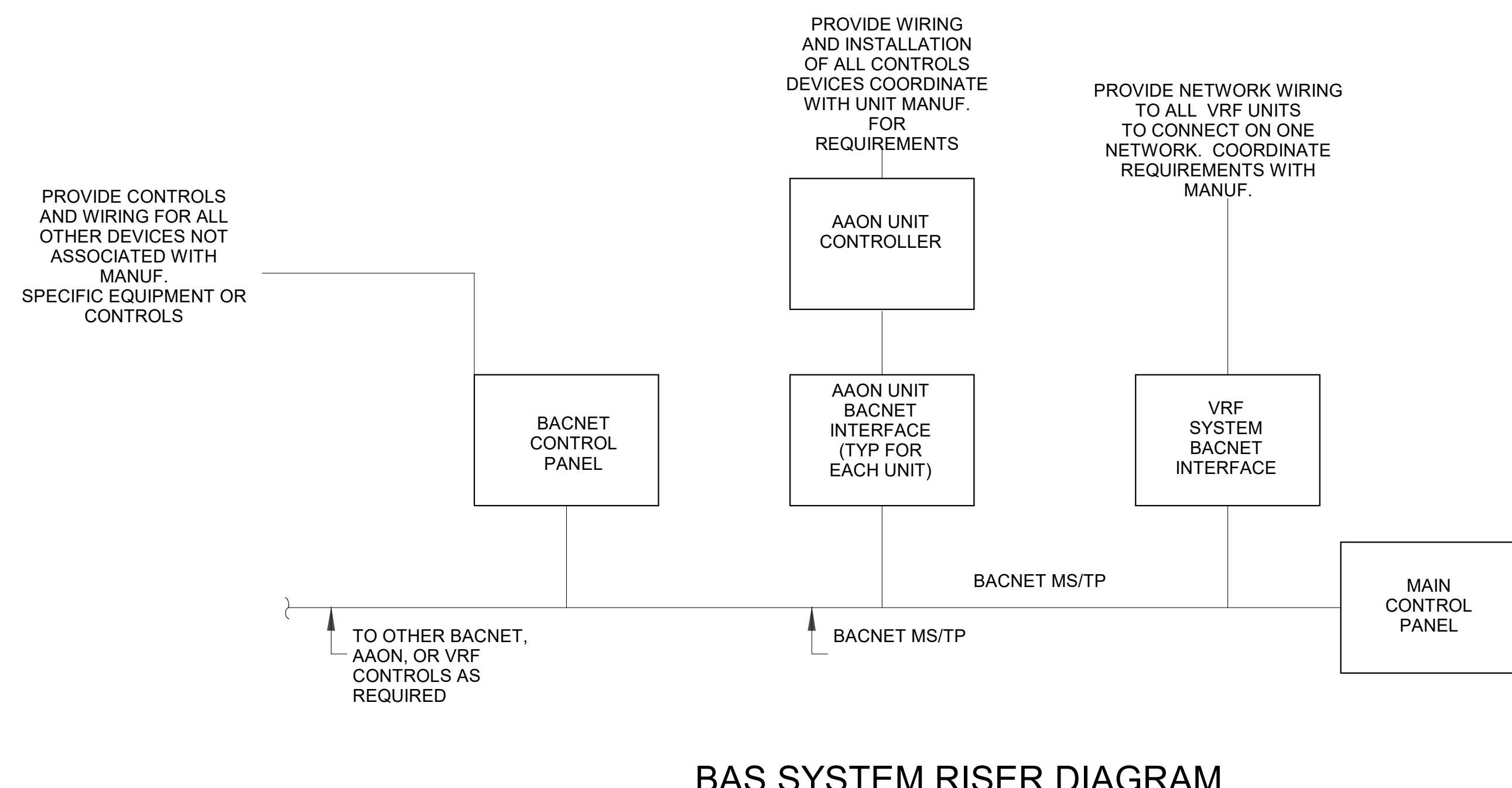


AC, CU, AND VRF UNIT CONTROL SCHEMATIC

DRAWING IS SCHEMATIC ONLY. COORDINATE ALL REQUIREMENTS WITH UNIT MANUFACTURER PRIOR TO BID. ADDITIONAL PAYMENT WILL NOT BE GRANTED FROM LACK OF COORDINATION. CONTRACTOR SHALL COORDINATE BETWEEN CONTROLS CONTRACTOR, AND EQUIPMENT VENDOR. ALL REQUIRED WIRING AND ACCESSORIES REQUIRED FOR OPERATIONAL SYSTEM. THIS CONTROL IS INTENDED TO ALSO INCLUDE STANDARD SPLIT SYSTEM UNITS AND SINGLE ZONE INVERTER SPLIT UNITS AS WELL AS VRF.

AC, CU, VRF UNITS	HARDWARE POINTS				SOFTWARE POINTS						SHOW ON GRAPHIC
	AI	AO	BI	BO	AV	BV	SCHED.	TREND	ALARM		
ZONE TEMP	X							X			X
ZONE SETPOINT ADJUST	X										X
ZONE OVERRIDE			X				X				X
FAN SPEED				X			X				X
SCHEDULE						X					
HEATING SETPOINT							X				X
COOLING SETPOINT							X				
HIGH ZONE TEMP									X		
LOW ZONE TEMP									X		
HIGH ZONE CARBON DIOXIDE									X		
MANUFACTURERS FAULT CODE					X				X		X
SPACE CO2	X										X

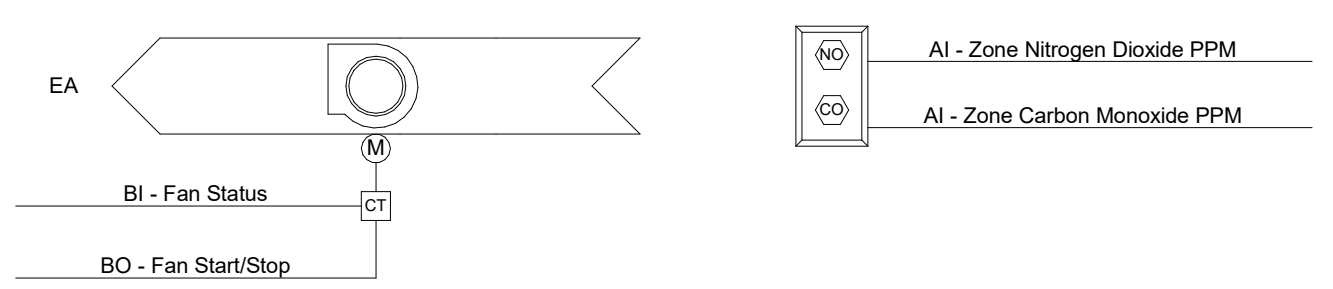
AC Unit Control
 A. Run Conditions - Automatic Operation: The unit shall run according to a user definable time schedule in the following modes:
 Occupied Mode: The unit shall maintain
 * A 75 F (adj.) cooling setpoint
 * A 70 F (adj.) heating setpoint.
 Unoccupied Mode (night setback):
 The unit shall maintain a 85 F (adj.) cooling setpoint. A 55 F (adj.) heating setpoint.
 B. Alarms shall be provided as follows:
 High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.). Low Zone Temp: If the zone Temperature is less than the heating setpoint by a user definable amount (adj.).
 C. Run Conditions - Manual Operation:
 The occupant shall be able to override automatic operation through the zone sensor as follows:
 Adjust the cooling and heating setpoints
 Select the desired fan speed (when available) * Low * Medium * High
 Select the desired operation mode * Off * On
 D. Zone Setpoint Adjust:
 The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor within user defined limits (unless locked out through BAS).
 E. Zone Unoccupied Override:
 A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for an adjustable period of time. At the expiration of this time, control of the unit shall automatically return to the schedule.
 F. Fan:
 The fan shall run anytime the unit is commanded to run, unless shutdown on safeties. The fan speeds shall automatically be indexed as follows:
 Low speed shall run anytime the zone temperature is within setpoints.
 Medium speed shall run anytime the zone temperature is outside of setpoints.
 High speed shall run anytime the zone temperature is outside of setpoints by a definable amount (adj.). For occupied spaces Fan shall run continuously during occupied hours & cycle during unoccupied hours. Unoccupied spaces such as Elec. & IDF Fan shall cycle to meet load.
 G. Cooling / Heating:
 The controller shall measure the zone temperature and stage the cooling or heating to maintain its cooling setpoint. To prevent short cycling, the stage shall have a user definable (adj.) minimum runtime.
 H. Manufacturer Fault Code:
 Provide programming and display to indicate manufacturer provided fault code for all available faults at owners work station. For Example: "Error Code 106" Outdoor fan motor current high, check that fans rotate freely, and are connected correctly.
 J. Units shall shut down based on signal from Fire Alarm system or duct smoke detector.



BAS SYSTEM RISER DIAGRAM

PROVIDE MULTIPLE CONTROL PANELS AND DEVICES AS REQUIRED FOR SYSTEM OPERATION AND FUNCTIONING. DIAGRAM IS INTENDED ONLY AS GENERAL CONCEPT OF SYSTEM LAYOUT

- HVAC CONTROLS GENERAL NOTES**
- CONTRACTOR SHALL DETERMINE ALL REQUIRED WIRING, COMMUNICATIONS, CONTROLLERS AND DEVICES REQUIRED FOR THIS INTERFACE PRIOR TO BID AND SHALL BE INCLUDED IN THEIR BID.
 - CONTRACTOR IS REQUIRED TO REVIEW ALL CONTROL SEQUENCES, POINTS LISTS AND DEVICES WITH APPROVED VENDORS FOR COORDINATION PRIOR TO BID. IT IS NOT THE INTENT OF THESE DOCUMENTS TO COORDINATE BETWEEN THE CONTROLS CONTRACTOR AND EQUIPMENT VENDORS PRIOR TO BID. THIS COORDINATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - CONTRACTOR SHALL REVIEW ALL REQUIRED CONTROLS PRIOR TO BID. AFTER BID THE CONTRACTOR WILL BE EXPECTED TO COMPLY WITH ALL POINTS, CONTROL SEQUENCES AND DEVICES SHOWN IN THE DRAWINGS OR SPECIFICATIONS AND DEMONSTRATE ALL POINTS AND SEQUENCES DURING THE COMMISSIONING PROCESS.
 - THE PLANS DO NOT SHOW AND DO NOT INTEND TO SHOW ALL CONTROL DEVICES REQUIRED. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL GATEWAYS, SENSORS, WIRING, RELAYS, ETC TO ACCOMPLISH CONTROL SEQUENCES INDICATED ON THE DRAWINGS AND COMMUNICATION WITH BUILDING AUTOMATION SYSTEM.
 - PROVIDE CONTROLS FROM ONE OF APPROVED VENDORS.
 - HVAC CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE ALL SYSTEMS INCLUDING 3RD PARTY VENDOR SPECIFIC DEVICES & CONTROLS (VRF & OAU) ARE PROPERLY INSTALLED AND COMMUNICATING WITH BUILDING ENERGY MANAGEMENT SYSTEM AND OTHER 3RD PARTY CONTROLLERS.
 - SPECIFICATION OF A BACNET OR OTHER CONTROL INTERFACE WITH EQUIPMENT DOES NOT IMPLY ADDITIONAL HVAC CONTROLS ARE NOT REQUIRED. HVAC CONTROLS CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROLS TO ACCOMPLISH SEQUENCE OF CONTROLS ON DRAWINGS.
 - ONE 120V & ONE DATA CONNECTION HAS BEEN PROVIDED AT MAIN CONTROL PANEL. CONTROLS CONTRACTOR SHALL EXTEND THE 120V & DATA CONNECTION TO OTHER PANELS & EQUIPMENT AS REQUIRED.
 - ALL CONTROL PARAMETERS & SETPOINTS SHALL BE FULLY ADJUSTABLE THROUGH EMS.
 - SEE ALL PLANS SCHEDULES AND NOTES IN OTHER SECTIONS OF THE DRAWINGS FOR OTHER ADDITIONAL ITEMS NOT REFLECTED ON CONTROL DRAWINGS



Point Name	Hardware Points				Software Points						Show On Graphic
	AI	AO	BI	BO	AV	BV	Loop	Sched	Trend	Alarm	
Zone Carbon Monoxide PPM	X								X		X
Zone Nitrogen Dioxide PPM	X								X		X
Fan Status			X						X		X
Fan Start/Stop				X					X		X
Fan Failure										X	
Fan In Hand										X	
Fan Runtime Exceeded										X	
High Zone Carbon Monoxide Concentration										X	
High Zone Nitrogen Dioxide Concentration										X	

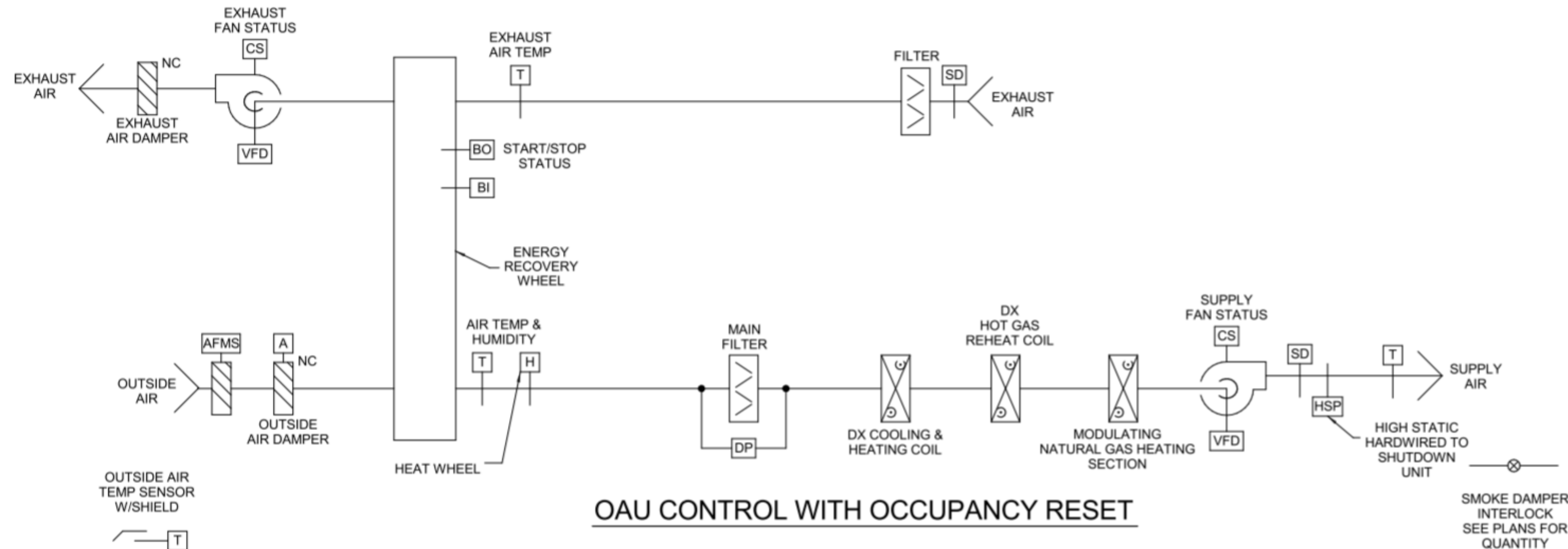
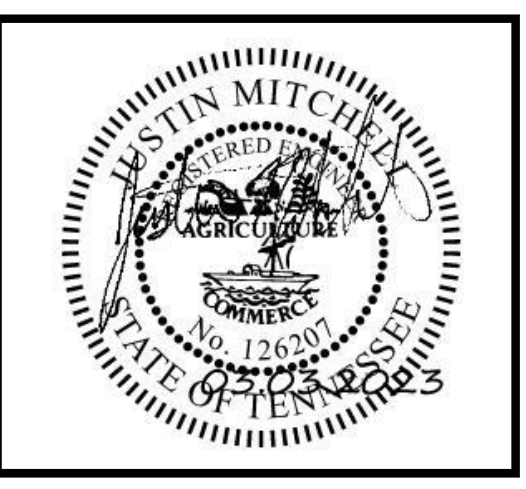
- VF-1,2,3,4 (typical of 4)
 Run Conditions - Enable on High Carbon Monoxide:
 The exhaust fan shall run whenever zone carbon monoxide rises above 25ppm (adj.).
 Alarms shall be provided as follows:
 * High Zone Carbon Monoxide: If the zone carbon monoxide is greater than 40ppm (adj.).
 * High Zone Nitrogen Dioxide: If the zone carbon monoxide is greater than 40ppm (adj.).
 Fan:
 The fan shall have a user definable (adj.) minimum runtime.
 Fan Status:
 The controller shall monitor the fan status.
 Alarms shall be provided as follows:
 * Fan Failure: Commanded on, but the status is off.
 * Fan in Hand: Commanded off, but the status is on.
 * Fan Runtime Exceeded: Fan status runtime exceeds a user definable limit (adj.).

REVISIONS

NO.	DATE	DESCRIPTION

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MECHANICAL CONTROLS

M501

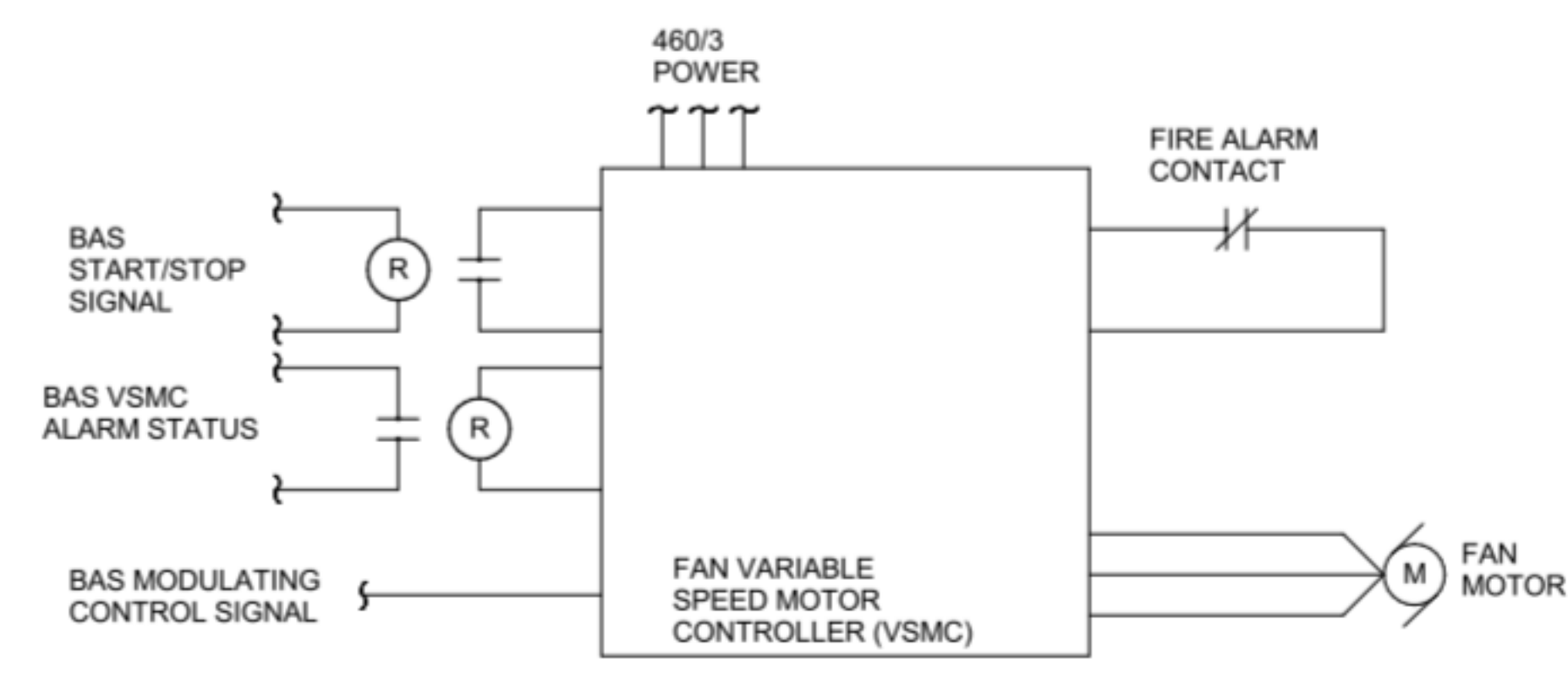


OAU CONTROL WITH OCCUPANCY RESET

CLASSROOM OAU CONTROL	HARDWARE POINTS				SOFTWARE POINTS						SHOW ON GRAPHIC	NOTES	
	AI	AO	BI	BO	AV	BV	SCHED.	TREND	ALARM				
HEAT WHEEL DISCH. AIR TEMP	X							X			X		
HEAT WHEEL DISCH. AIR HUMIDITY	X							X			X		
SUPPLY AIR TEMP	X							X		X	X		
COOLING STATUS (PERCENT)		X									X		
HEATING STATUS (PERCENT)		X									X		
HOT GAS REHEAT STATUS		X									X		
EXHAUST AIR TEMP	X							X			X		
HEAT WHEEL STATUS			X						X		X		
SUPPLY FAN STATUS		X							X		X		
EXHAUST FAN STATUS		X							X		X		
OSA/ECONOMIZER DAMPERS	X										X		
HEAT WHEEL START/STOP				X							X		
SUPPLY FAN START/STOP				X							X		
EXHAUST FAN START/STOP				X							X		
EMERGENCY SHUTDOWN		X								X	X		
SCHEDULE						X					X		
DIRTY FILTER		X								X	X		
EXHAUST FAN SPEED		X						X			X		1.
SUPPLY FAN SPEED		X						X			X		1.
SPACE TEMPERATURE	X							X	X		X		
SPACE OCCUPANCY SENSOR			X										
SUPPLY AIR TEMP SETPOINT					X		X	X			X		3.
OAU AFMS	X							X		X	X		2.
HIGH FAN SPEED ALARM					X		X				X		

REMARKS:
 1. SEE SCHEDULE FOR MIN. & MAX. AIRFLOW SETTINGS. DETERMINE RANGE BASED ON T&B.
 2. PROVIDE OUTDOOR AIRFLOW MEASURING DEVICE 6% ACCURATE. ALARM BAS IF OSA FALLS BELOW 10% BELOW SETPOINT.
 3. PROVIDE SUPPLY AIR TEMP RESET BASED ON O.A.T. ALL VALUES SHALL BE FULLY ADJUSTABLE.
 4. PROVIDE OCCUPANCY SENSOR IN LARGER GROUP TOILETS AS SHOWN ON PLANS TO OVERRIDE SUPPLY AND EXHAUST FLOW IF TOILETS ARE OCCUPIED

- [T] SPACE TEMP ONLY REQUIRED FOR OAU-GYM-1 & OAU-GYM-2
- [C] SPACE MOUNTED CO2 SENSORS (MULTIPLE REQUIRES) OAU SHALL CONTRL BASED ON WORST CASE SENSOR
- [O] SPACE MOUNTED OCCUPANCY SENSOR IN GROUP TOILETS SEE PLANS FOR LOCATIONS (NOT REQUIRED FOR ALL UNITS.)



FAN VFD CONTROL
 TYP. SUPPLY & EXHAUST

- OAU GENERAL NOTES:**
- COORDINATE WITH OAU MANUFACTURER FOR ALL REQUIRED FIELD MTD. AND WIRED DEVICES. EXTRA PAYMENT WILL NOT BE PROVIDED FOR LACK OF COORDINATION BETWEEN UNIT MANUFACTURER & TEMPERATURE CONTROL SYSTEM PROVIDER.
 - PROVIDE ALL GATEWAYS AND CONTROL INTERFACES TO OAU AS REQUIRED TO ACCOMPLISH INDICATED CONTROL & INTERFACE WITH EMS.

OUTSIDE AIR UNIT CONTROL WITH OCCUPANCY RESET

Occupied Mode
 Unit scheduled to operate continuously during occupied mode based on owner occupied schedule.

Unoccupied Mode:
 Unit is intended to be OFF during occupied mode.
 Supply fan, exhaust fan and energy recovery wheel are off and outside air damper is closed during unoccupied mode.

Cooling Mode
 Cooling is two stages of Digital Scroll Compressors
 Cooling is enabled when the Outdoor Air Temperature rises above the Outdoor Cooling Setpoint plus differential.
 Cooling is disabled when the Outdoor Air Temperature falls below the Outdoor Cooling Setpoint minus differential.
 In the Cooling Mode, the Digital Compressor will energize and modulate to control the Supply Air Temperature Setpoint.
 If the SAT is above the Supply Air Temperature Setpoint and the Digital Compressor is at 100% for timed period, the second stage compressor is staged on. Once second compressor the compressors will operate together to maintain the Supply Air Temperature Setpoint.
 Second stage compressor will remain on until SAT drops below the Supply Air Temperature Setpoint and the Compressors area at a minimum % for timed period. Once second stage compressor stages off the first stage compressor will go to 100% and modulate to control the Supply Air Temperature Setpoint.
 Compressor must meet Minimum Off Time before allowed to energize and Minimum Run Time before allowed to de-energize.

Heating Mode
 Heating is Modulating Gas Heat.
 Heating is enabled when the Outdoor Air Temperature falls below the Outdoor Heating Setpoint minus differential. Heating is disabled when the Outdoor Air Temperature rises above the Outdoor Heating Setpoint plus differential.
 In the Heating Mode, Heating will energize and modulate to control the Supply Air Temperature Setpoint.
 Heating must meet Minimum Off Time before allowed to energize and Minimum Run Time before allowed to de-energize.

Dehumidification Mode
 Dehumidification is Compressor(s) to control Coil Suction Temperature and Modulating Hot Gas Reheat to control Supply Air Temperature.
 Dehumidification is enabled when the Outdoor Air Dewpoint rises above Outdoor Dewpoint Setpoint plus differential (Outside Air Dewpoint setpoint shall be 55 degrees F).
 Dehumidification is disabled when the Outdoor Air Dewpoint falls below the Outdoor Dewpoint Setpoint minus differential.
 In the dehumidification mode, the digital compressor will modulate to control the Evaporator Coil Suction Temperature Setpoint.
 If additional dehumidification is required, second stage compressor is staged on.
 Modulating Hot Gas Reheat will control the Supply Air Temperature Setpoint during Dehumidification.

Supply Air Temperature (SAT) Setpoint Reset
 Supply air setpoint shall be maintained between 55 degrees and 75 degrees. Supply air temp setpoint shall reset from 75 to 55 degrees F (adj.) at 50 F to 90 F respectively
 Space Temperature will reset the Supply Air Temperature (SAT) Setpoint downwards if space temp senses space temperature at 78 degrees F (adj.) or above or upwards if senses space temperature 65 degrees or below (adj.)

Supply Air Temperature Limitations
 Supply air temperature shall be limited to a maximum setpoint of 75 degrees to maintain a ventilation effectiveness equal to 1 in accordance with ASHRAE Standard 62. Supply air temperature setpoint may be lower.

Supply Fan
 Supply fan operates continuous during occupied mode. Supply fan is off during unoccupied mode.
 If Supply Fan fails to operate when called to run, an alarm shall be generated and unit operations are disabled.
 Supply fan shall modulate as described during occupied hours only.

Outside Air Damper Operation
 Outside Air Damper opens when the supply fan operates during occupied mode.
 Outside Air Damper closed during unoccupied mode.

Exhaust Fan
 Exhaust Fan operates when the supply fan operates during occupied mode.
 Exhaust Fan off during unoccupied mode.
 If Exhaust Fan fails to operate when called to run, an alarm shall be generated.
 Exhaust fan airflow percentage shall track supply airflow percentage. (Example: if supply fan is at 70% airflow, exhaust fan shall be at 70% airflow), speed shall account for any adjustments made to fan speed during balancing (i.e.) if fan is balanced to 50hz for 100% airflow, 25hz would be 50% airflow.

CO2 Control:
 Unless overridden by toilet occupancy sensor outside air unit shall control based on worst case space CO2
 BAS shall sample space CO2 every 3 minutes (adj.) and shall control to the classroom or space with the highest CO2 reading. All Classrooms and High Occupancy space CO2 is monitored by BAS.
 If CO2 rises 10% higher than CO2 setpoint (1025 ppm (adj.)) alarm shall be generated at BAS.
 BAS will modulate Supply Fan VFD and Exhaust Fan VFD between minimum and maximum speed settings to control maximum space CO2 at space CO2 setpoint. Fan speed shall not increase or decrease more than 10% (adj.) every 3 minutes (adj.).
 If supply fan speed is called to be above 98% (adj.) for greater than 2 hours (adj.), then an alarm shall be generated at EMS.
 CO2 SETPOINTS: CO2 setpoints (based on ASHRAE 62 users manual) shall be as follows:
 1025 PPM Classrooms
 1570 PPM Cafeteria / Dining / Kitchen
 1755 PPM Confrence/Meeting Rooms
 990 PPM Office Spaces
 1755 PPM Auditorium
 1025 PPM Small Gym

Energy Recovery Wheel
 Energy Recovery Wheel operates when the supply fan operates during occupied mode.
 Energy Recovery Wheel off during unoccupied mode.
 If Energy Recovery Wheel fails to rotate when called to run, an alarm shall be generated.

Outdoor Air Lockout
 Mechanical cooling is disabled when the Outdoor Air Temperature is below the Cooling Lockout Setpoint
 Natural gas heating is disabled when the outside air temperature is above the heating lockout setpoint

Outside Air Monitoring
 If outside air falls 10% below setpoint an alarm shall be generated at the BAS. (see equipment schedules for minimum outside air setpoint)

Temperature Protection
 If the Supply Air Temperature (SAT) rises above the High Cutoff Temperature or drops below the Low Cutoff Temperature an alarm is generated and unit operations are disabled.

Emergency Shutdown
 Remote Fire Alarm Contact or High Duct Static Pressure Switch will initiate Emergency Shutdown and an alarm will be generated.

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REVISIONS

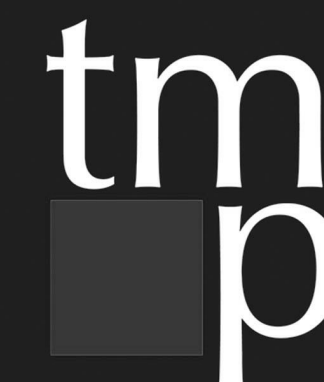
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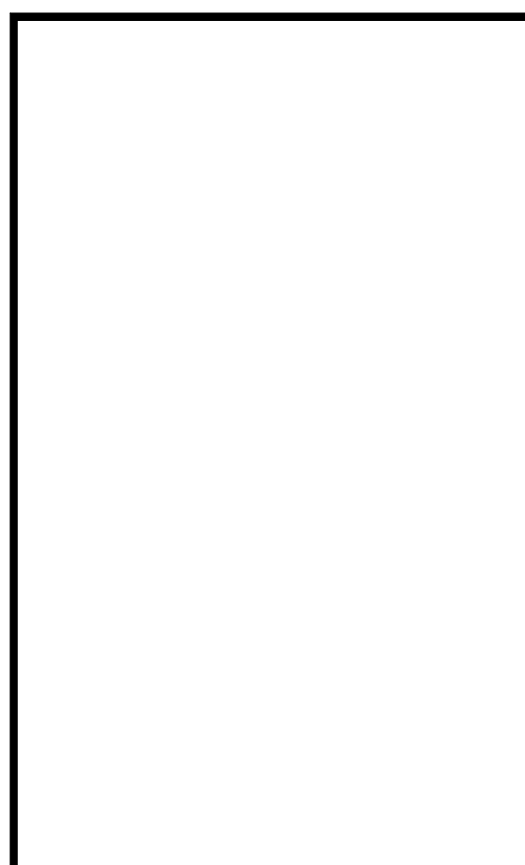
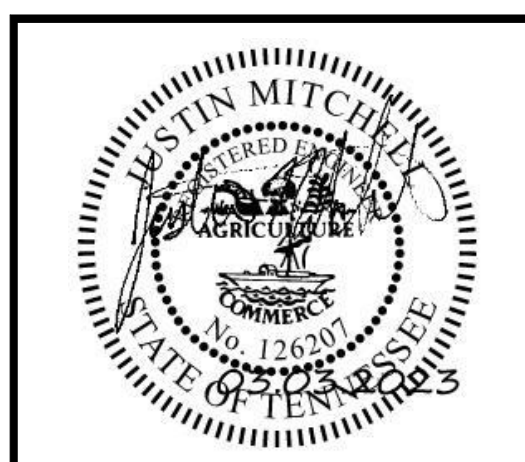
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Table with 2 columns: REVISIONS, and empty rows for revision tracking.

Table with 2 columns: DR. BY, CK. BY, PROJ. NO., DATE. Values: ICT, ICT, A01122, 03/03/23.

HOOD DETAILS

M503

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

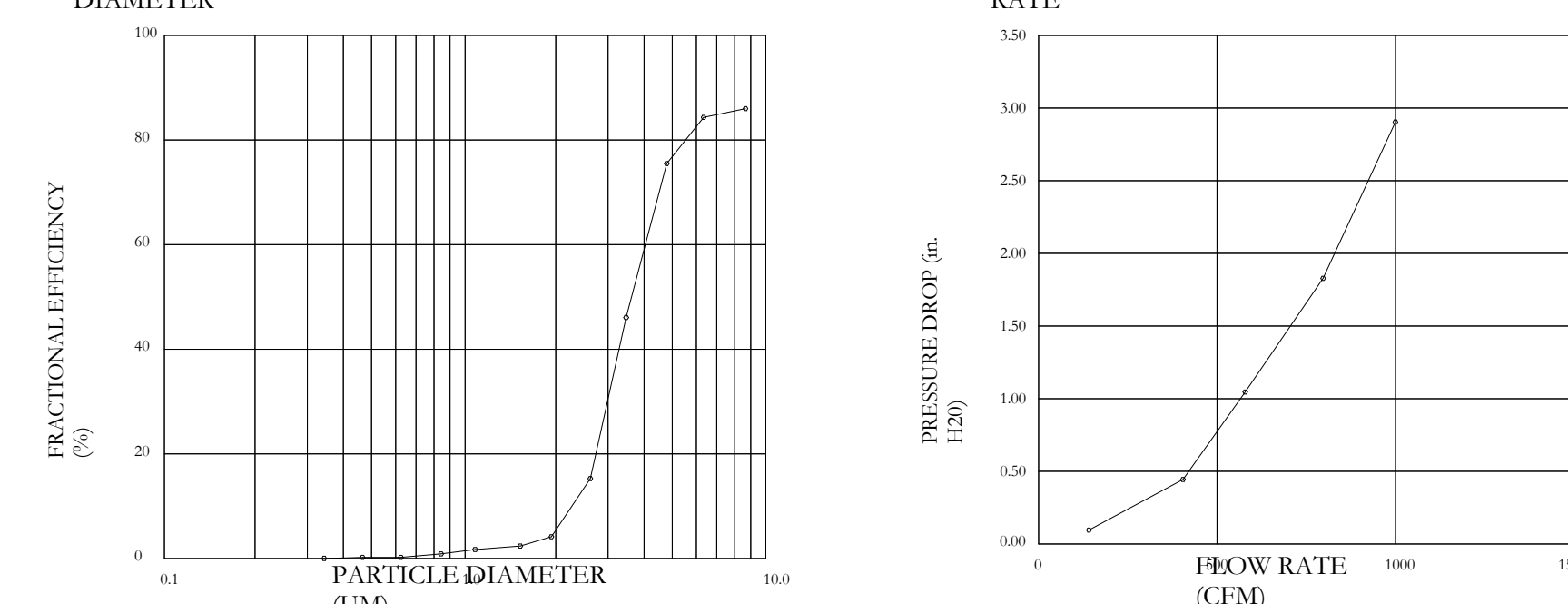
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

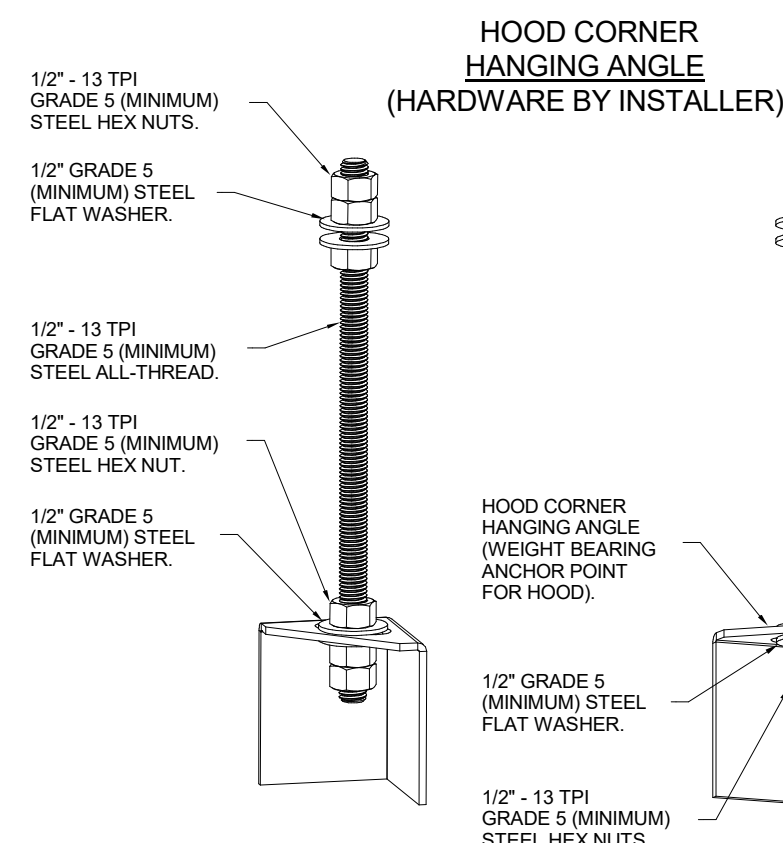
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

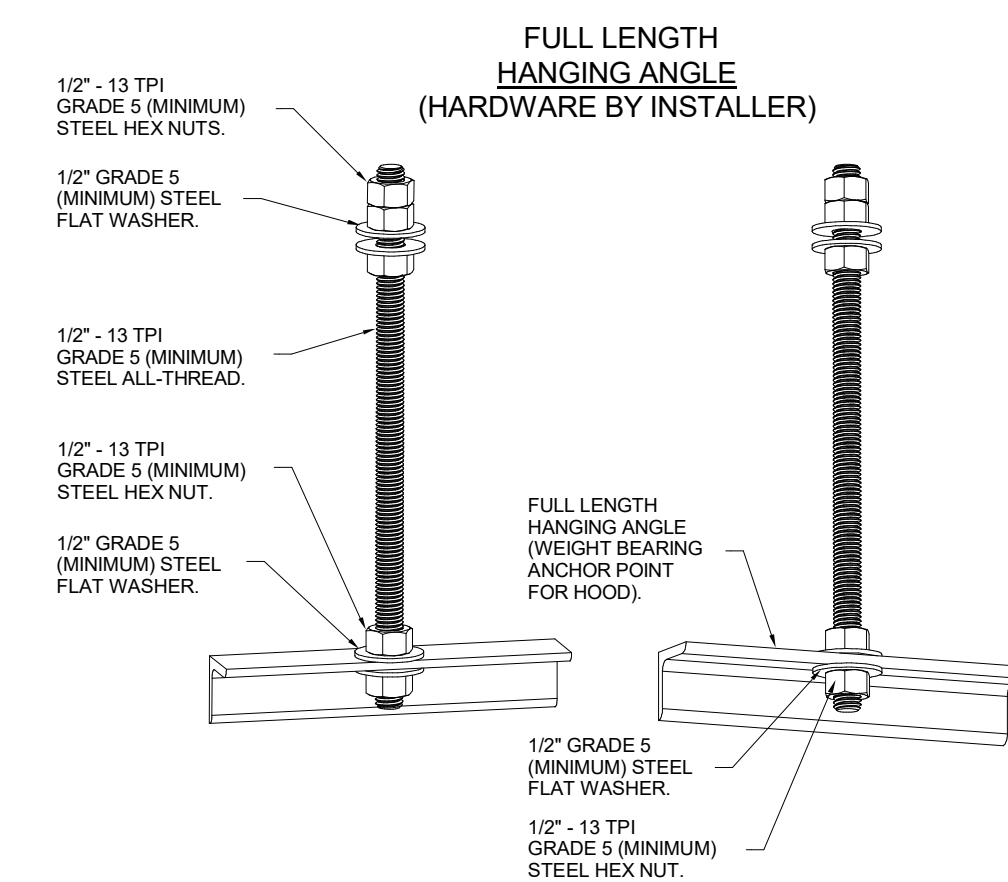


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)
ULC-S649.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



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FOR QUESTIONS, CALL THE
Nashville Office
REGION 44
PHONE: (615) 599-8300
EMAIL: reg44@captiveaire.com

PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION

Table with columns: HOOD NO, TAG, MODEL, MANUFACTURER, LENGTH, MAX COOKING TEMP, TYPE, APPLIANCE DUTY, DESIGN CFM/FT, TOTAL EXH CFM, EXHAUST PLENUM RISER(S) (WIDTH, LENG, HEIGHT, DIA, CFM, VEL, SP), HOOD CONSTRUCTION, HOOD CONFIG (END TO END, ROW).

HOOD INFORMATION

Table with columns: HOOD NO, TAG, TYPE, FILTER(S) (QTY, HEIGHT, LENGTH, EFFICIENCY @ 7 MICRONS, QTY), LIGHT(S) (TYPE, WIRE GUARD, LOCATION, SIZE), UTILITY CABINET(S) (FIRE SYSTEM TYPE, SIZE, ELECTRICAL MODEL #, SWITCHES QUANTITY), FIRE SYSTEM PIPING, HOOD HANGING WEIGHT.

HOOD INFORMATION

Table with columns: HOOD NO, TAG, OPTION. Lists various hood options like Field Wrapper, Backsplash, End Panels, etc.

DIFFUSER SCHEDULE

Table with columns: TAG, MODEL, CEILING HEIGHT, NOMINAL FACE SIZE, RISER DIA, CFM, DUCT VELOCITY (FPM), FACE DISCHARGE VELOCITY (FPM), T50 AFF, SP, NOISE CRITERIA, LINKED FAN, LINKED HOOD.

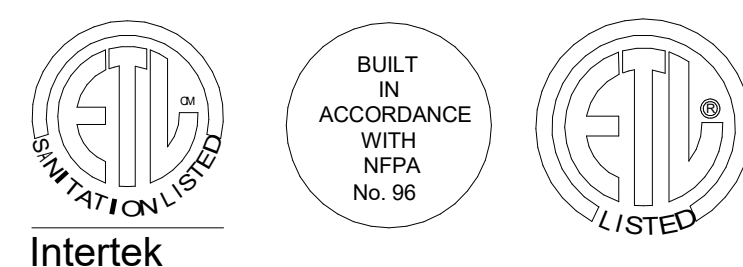
SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH



NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

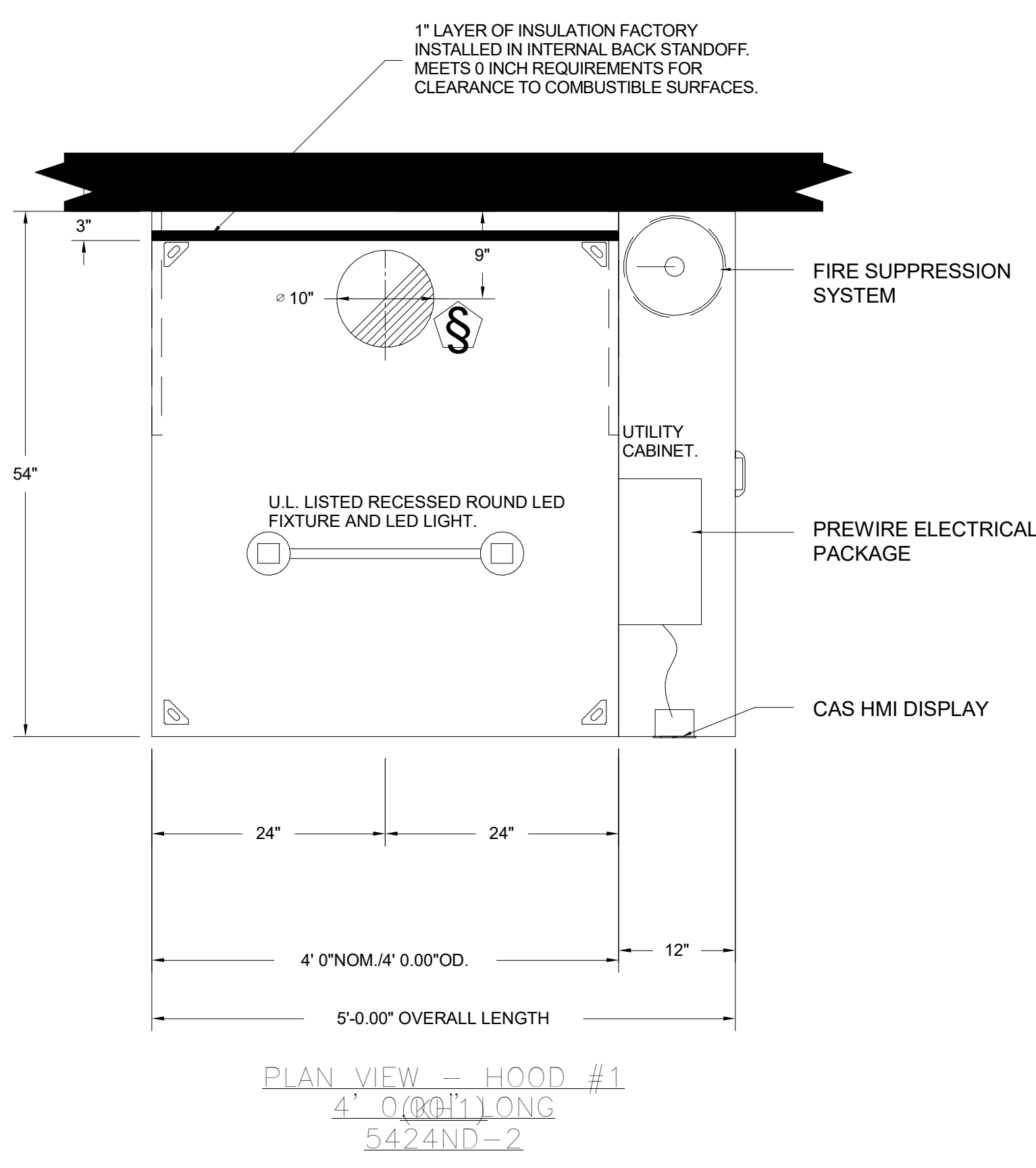
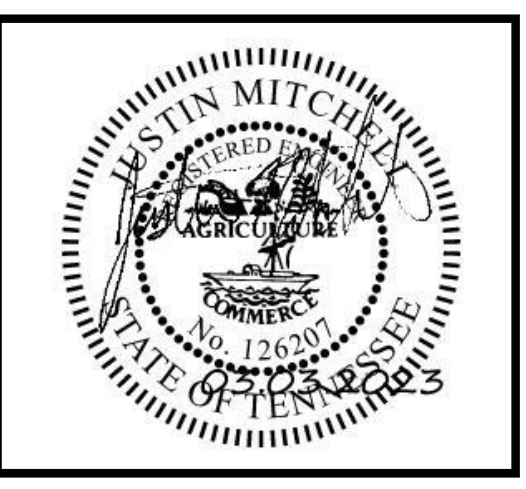
CUSTOMER APPROVAL TO MANUFACTURE:

Approval form with checkboxes for 'Approved as Noted', 'Taken', 'Revise and Resubmit', and a signature line.

FOR QUESTIONS, CALL THE
Nashville Office
Darrin Richardson
PHONE: (615) 599-8300
EMAIL: reg44@captiveaire.com

§ GREASE DUCT SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 LISTED DOUBLE WALL GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.



VERIFY CEILING HEIGHT
 _____' - _____"
 HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

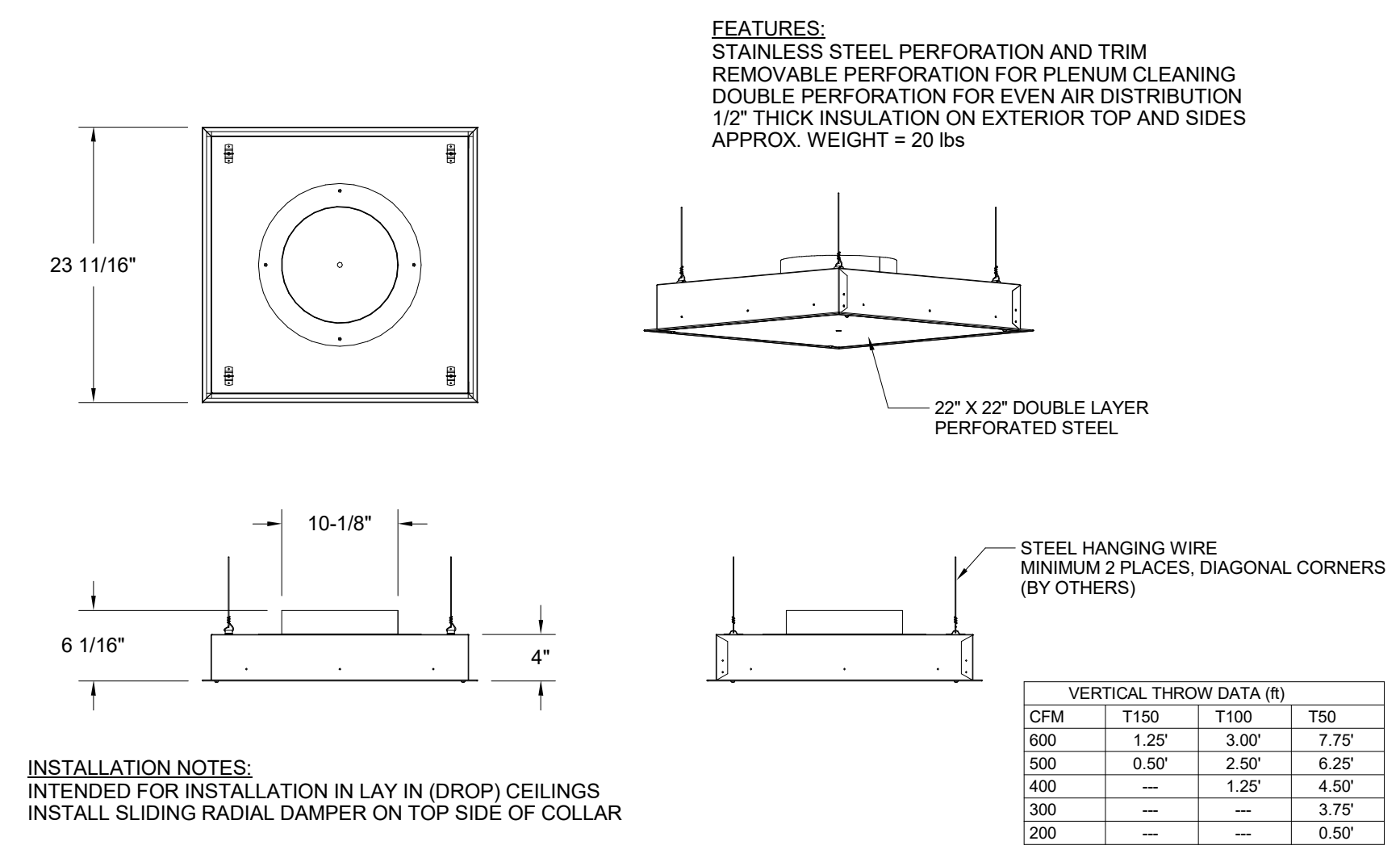
HVAC DISTRIBUTION NOTE
 IT IS RECOMMENDED NOT TO INSTALL HIGH VELOCITY DIFFUSERS OR HVAC RETURNS WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

DIFFUSER SCHEDULE

MODEL	CEILING HEIGHT	NOMINAL FACE SIZE	RISER DIA.	CFM	DUCT VELOCITY (FFM)	FACE DISCHARGE VELOCITY (FFM)	T50 AFF	SP	NOISE CRITERIA	LINKED FAN	LINKED HOOD
DI-PSP-10-24X24	9'	24 X 24	10	213	391	63	7.63'	0.037"	21	CASRTU1-E.152-15-5T	5424ND-2

QTY 3-DROP-IN PERFORATED SUPPLY PLENUM DIFFUSER (DI-PSP)



DIFFUSER SPECIFICATION

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

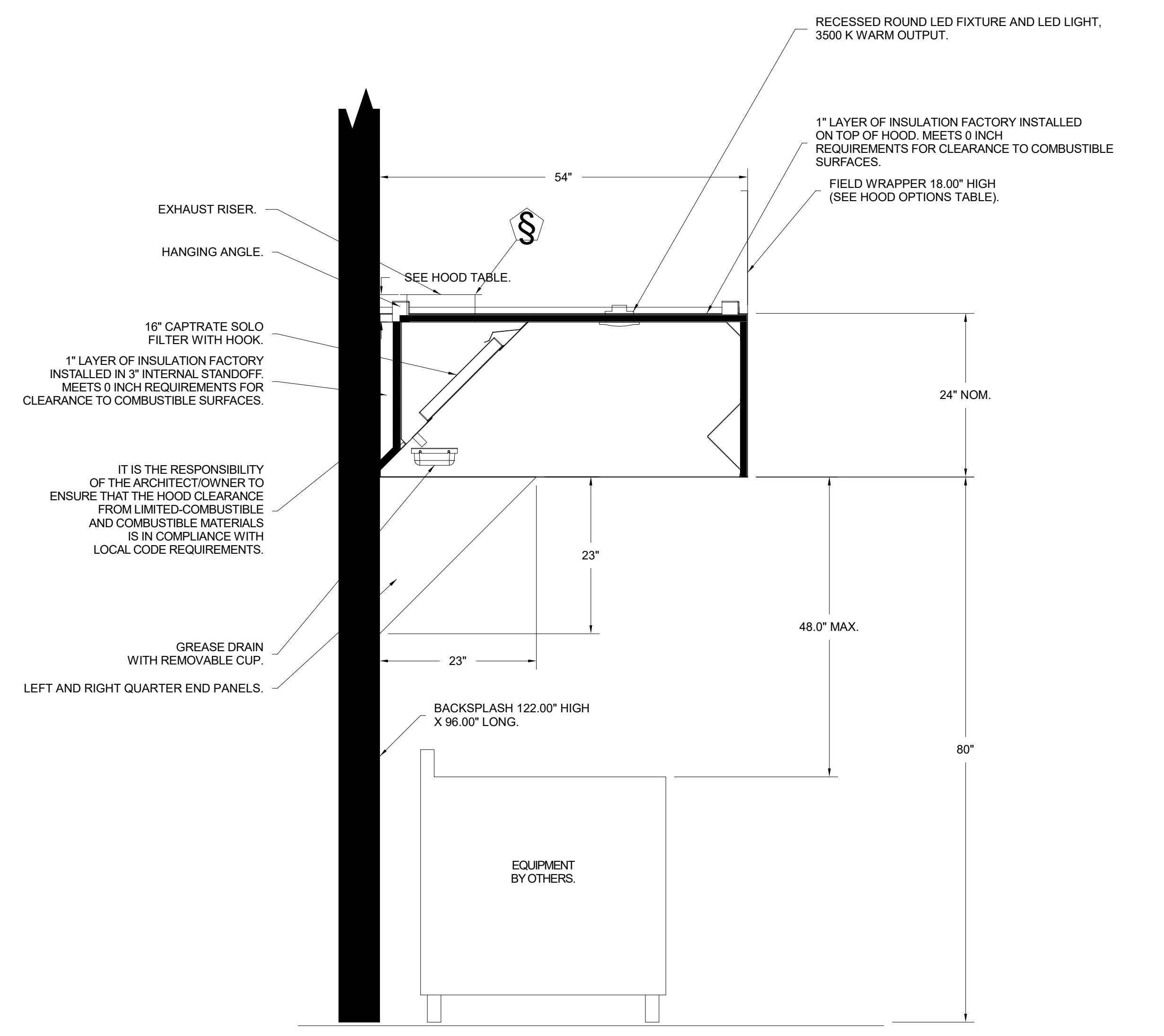
NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted
 Approved with NO Exception
 Taken
 Revise and Resubmit

SIGNATURE _____
 Your Title _____
 Date _____

FOR QUESTIONS, CALL THE
 Nashville Office
 Darrin Richardson
 PHONE: (615) 599-8300
 EMAIL: reg44@captiveaire.com



SECTION VIEW - MODEL
HOOD #1 - #1
(K11)

TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE

REVISIONS

NO.	DESCRIPTION	DATE

DR. BY ICT
 CK. BY ICT
 PROJ. NO. A01122
 DATE 03/03/23
HOOD DETAILS



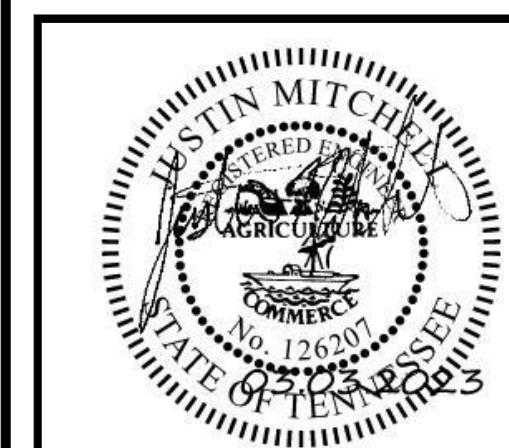
I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE
NASHVILLE, TN 37211
PHONE: (615) 346-3400
www.ictomasson.com
ICT Project No. 220082



TMPartners, PLLC
Architecture Interiors Planning

211 Franklin Road
Suite 200
Brentwood, TN 37027-5593
615.377.9773 Office
615.370.4147 Fax
www.TMPartners.com



TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



REVISIONS	

DR. BY	ICT
CK. BY	ICT
PROJ. NO.	A01122
DATE	03/03/23

HOOD DETAILS

M505

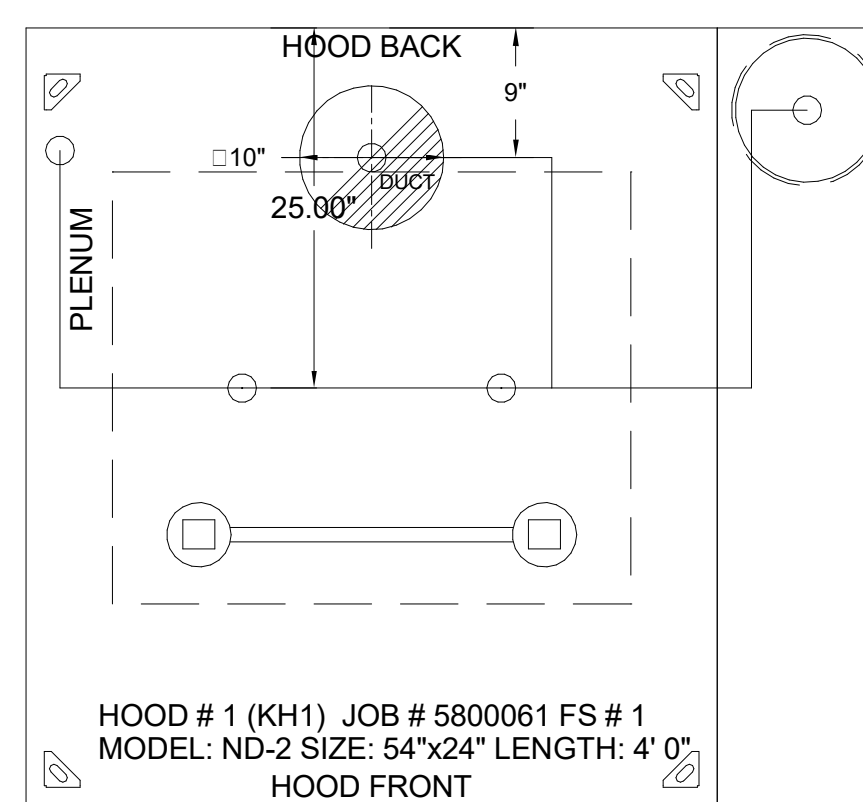
FIRE SYSTEM INFORMATION

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	KH1 FS	TANK FS	4.0	18	FIRE CABINET RIGHT	RIGHT, HOOD 1

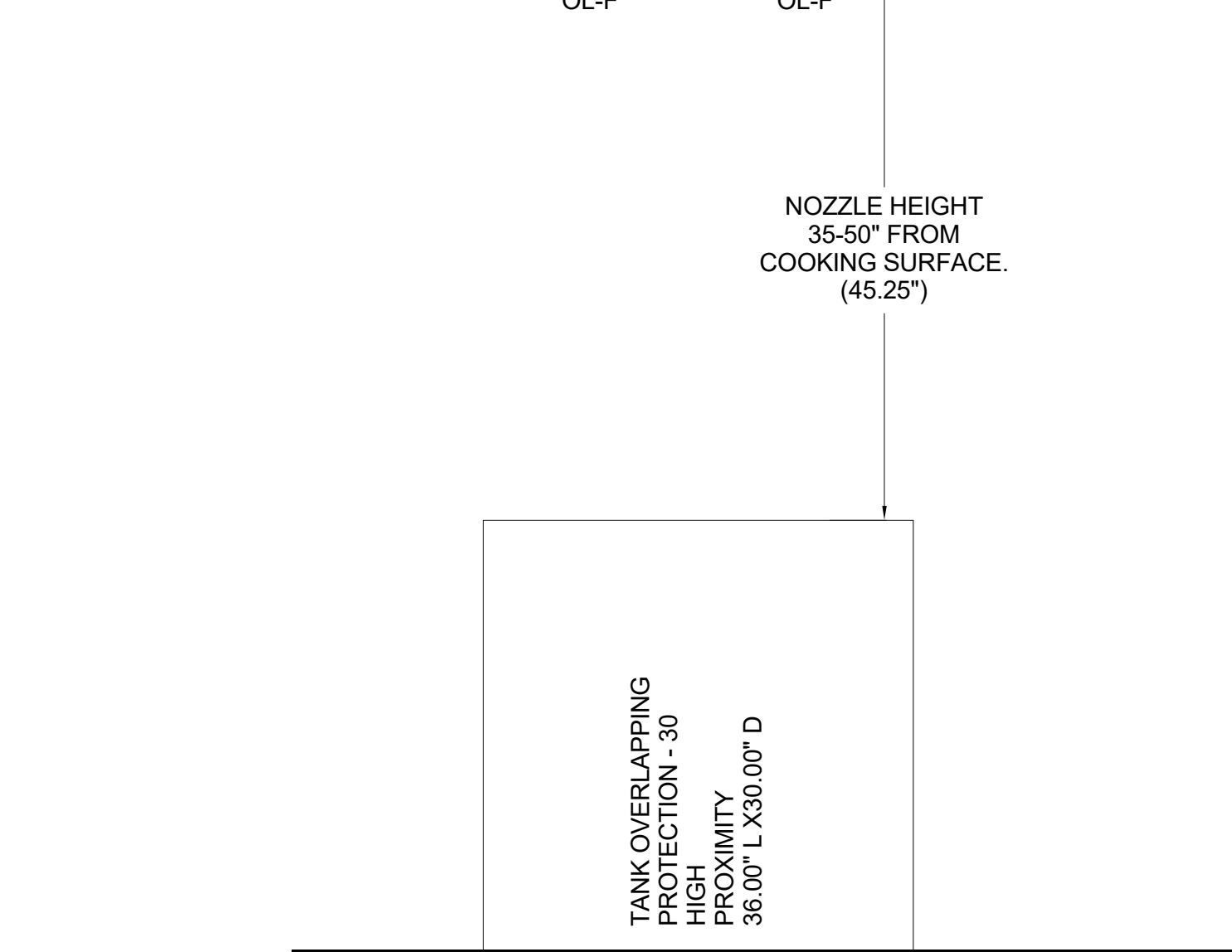
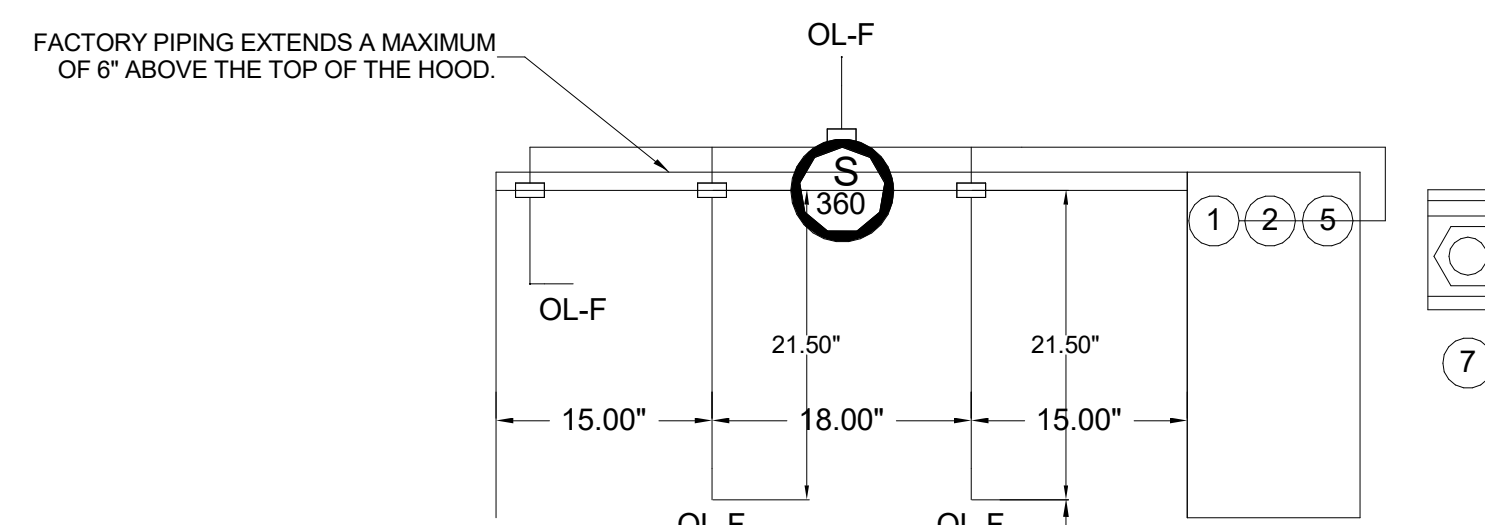
FIRE SYSTEM PARTS LIST

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1	KH1 FS	0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-OT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO. CLOSE ON TEMP RISE AT 380°F.	1	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	1	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - 9055459PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	4	0
		0 - 0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	3	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION, 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES, 1/4" FLARE X 1/4" NPT HALF UNION, USED ON TANK SERVICE PORT.	1	0
		0 - 0 - B1145 3/8" BLACK IRON 90 ELL.	2	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	3	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	1	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	4	0
		16 - 16 - OL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE), 4 FLOW POINTS.	4	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	4	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT, RED COLOR.	1	0

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST. ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES). ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2". PERMIT, AND SYSTEM TEST.
EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE). GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.



- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS



JOB #: 5800061.
JOB NAME: NOLENSVILLE FIRE STATION.

SYSTEM SIZE: TANK-SP-1 TOTAL FP REQUIRED: 18.
HOOD # 1 4' 0.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 10" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

NOTES

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELIVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

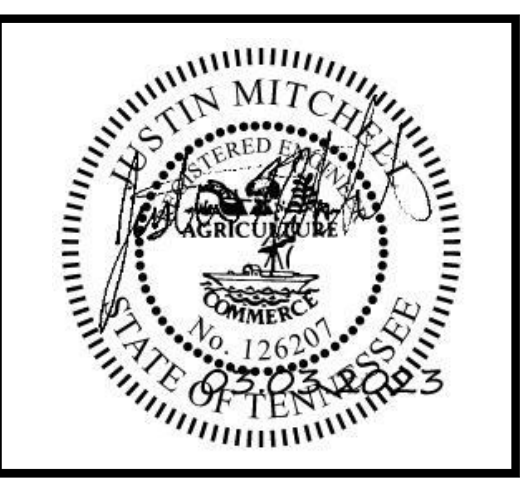
- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.

- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND - FIRE CABINET TANK SYSTEM

- 1 4 GALLON TANK.
- 2 PRIMARY ACTUATOR RELEASE.
- 3 SECONDARY ACTUATOR RELEASE.
- 4 PRESSURE SUPERVISION SWITCH.
- 5 PRIMARY HOSE ASSEMBLY.
- 6 SECONDARY HOSE ASSEMBLY.
- 7 REMOTE MANUAL ACTUATION DEVICE.



EXHAUST FAN INFORMATION

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF1	1	DU50HFA	CAPTIVEAIRE	800	1.250	1597	TEAO-ECM	0.500	0.4110	1	115	6.3	304 FPM	84	17.8

DOAS/RTU FAN SCHEDULE

FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	FAN INFORMATION										ELECTRICAL INFORMATION								COOLING INFORMATION								REHEAT INFORMATION				ELECTRIC HEAT INFORMATION				NOTES
					BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	BHP	PHASE	VOLT	MCA	MOCP	OUTSIDE AIR		MIXED AIR		LEAVING AIR		CAPACITY		IEER	ISMRE	DISCHARGE		CAPACITY		MOISTURE REMOVAL RATE	DSGN. KW'S	MAX. KW'S	VOLTS	AMPS	TEMP RISE			
																	DB	WB	DB	WB	DB	WB	DP	TOTAL			SENS.	DB	WB	DESIRED							MAX		
2	RTU1	1	CASRTU1-E.152-15-5T	CAPTIVEAIRE	15P-1	0	640	640	1209	0.750	1.00	0.32	3	208	41.4A	45A	82.7°F	77.2°F	82.7°F	77.2°F	48.2°F	43.3°F	38.1°F	66.0 MBH	23.3 MBH	17.9	6.1	70.0°F	53.1°F	15.4 MBH	53 MBH	38.5 LBS/HR	11	15	208	36.1	56 °F	1,2,3,4,5,6,7,8,9,10,11,12,13,14	

NOTES:

- INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
- DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
- INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
- REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
- EC MOTOR CONDENSING FANS
- ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
- SUCTION LINE ACCUMULATOR
- FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY
- AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
- SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
- FULLY MODULATING HOT GAS REHEAT
- FACTORY INSTALLED COMPRESSOR SOUND BLANKET
- 1" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-4.3 INSULATION- MINIMUM 24GA EXTERIOR W/ 18GA BASE
- DOWN DISCHARGE/DOWN RETURN

ASHRAE Peak Dehumidification Conditions, Zip Code 37135

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF1	1	GREASE BOX
		1	EXHAUST FAN HEAT BAFFLE
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
		1	RTU TOTAL CFM MONITORING
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	2" MERV 13 FILTERS FOR RTU1 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU1 (QTY. 4)
		1	OVERHEAT STAT
2	RTU1	1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	RTU1 DOWN DISCHARGE ELECTRIC HEAT, 10-45KW
		1	5 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FAN
		1	5 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	OCCUPIED SCHEDULING
		1	RTU1 CURB DUCT HANGER
		1	RTU1 DOWN RETURN
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
		1	RTUVZH044 COMPRESSOR SOUND BLANKET 230/460/575V - FACTORY INSTALLED
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	RTU1 CONVENIENCE OUTLET (GFCI); 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX
		1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED SINGLE POINT CONNECTION - ELECTRIC HEATER RTU. BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY & RETURN PREWIRE
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT

FAN SOUND DATA

FAN UNIT NO	TAG	MOTOR	SOUND DATA			OCTAVE BAND SOUND DATA								
			LWA	SONES @ 5 FT	DBA @ 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ
			1	KEF1	EXHAUST	81	17.7827941003892	69.5	5	77.6	78.4	86.3	77.5	72.7

UNIT SOUND DATA

FAN UNIT NO	TAG	MOTOR	SOUND DATA			OCTAVE BAND SOUND DATA								
			LWA	SONES @ 5 FT	DBA @ 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ
			2	RTU1	SUPPLY	78.2	16.3	67.5	5	84.8	81.1	77.2	74.2	74.3

Note: Sound data across operational range. Tested in accordance to AHRI Standard 270/370.

DIFFUSER SCHEDULE

TAG	MODEL	CEILING HEIGHT	NOMINAL FACE SIZE	RISER DIA	CFM	DUCT VELOCITY (FPM)	FACE DISCHARGE VELOCITY (FPM)	T50 AFF	SP	NOISE CRITERIA	LINKED FAN	LINKED HOOD
	DI-PSP-10-24X24	9'	24 X 24	10	213	391	63	7.63'	0.037"	21	CASRTU1-E.152-15-5T	5424ND-2

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUR	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF1	YES						

CURB ASSEMBLIES

NO	FAN	TAG	WEIGHT	ITEM	SIZE
1	#1	KEF1	38 LBS	CURB	19.500"W X 19.500"L X 26.000"H 1.000:12.000 PITCH ALONG LENGTH, RIGHT VENTED HINGED.
2	#2	RTU1	103 LBS	CURB	41.000"W X 71.000"L X 20.000"H 1.000:12.000 PITCH ALONG WIDTH, RIGHT INSULATED.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

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Token

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Date _____

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Darrin Richardson
PHONE: (615) 599-8300
EMAIL: reg44@captiveaire.com

REVISIONS

NO	DATE	DESCRIPTION

DR. BY	ICT
CK. BY	ICT
PROJ. NO.	A01122
DATE	03/03/23

HOOD DETAILS



**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

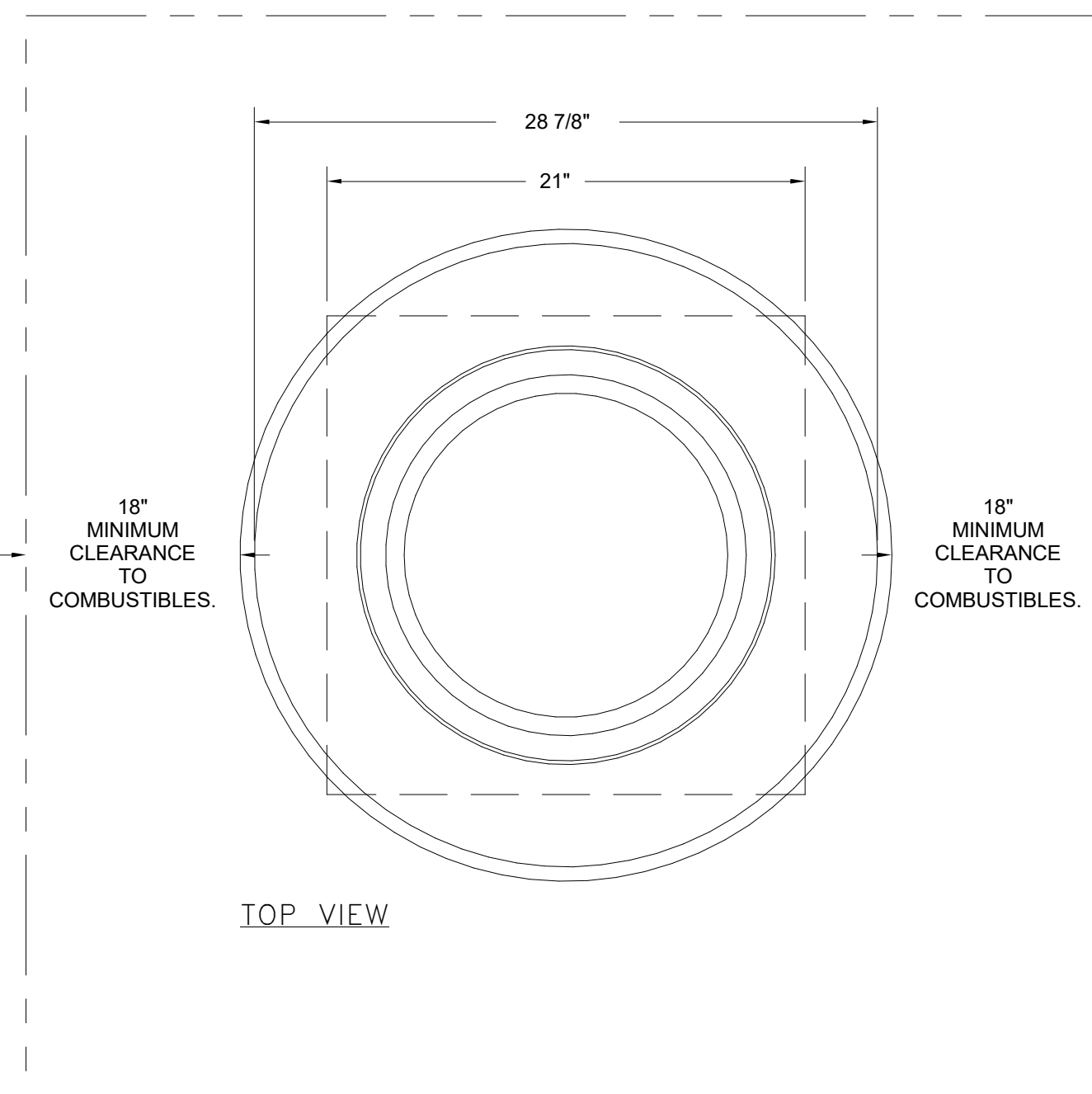
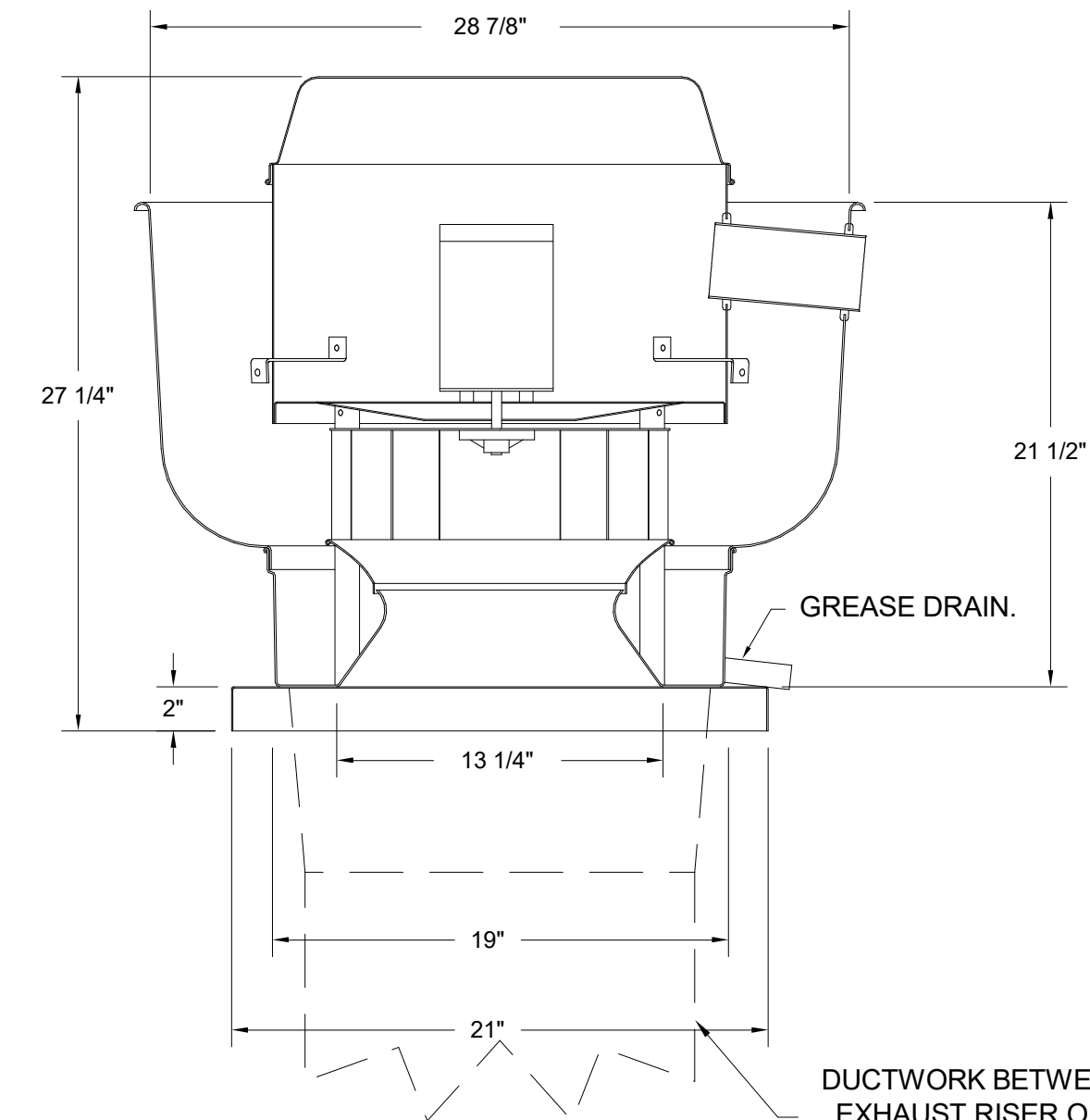


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HOOD DETAILS
M507

FAN #1 DU50HFA - EXHAUST FAN (KEE1)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST

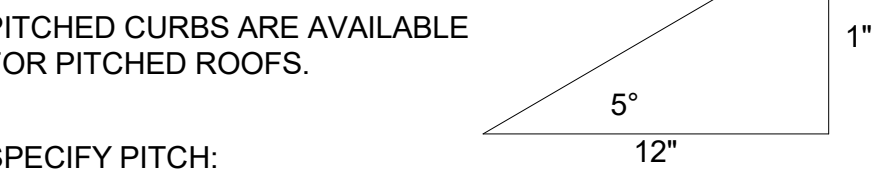
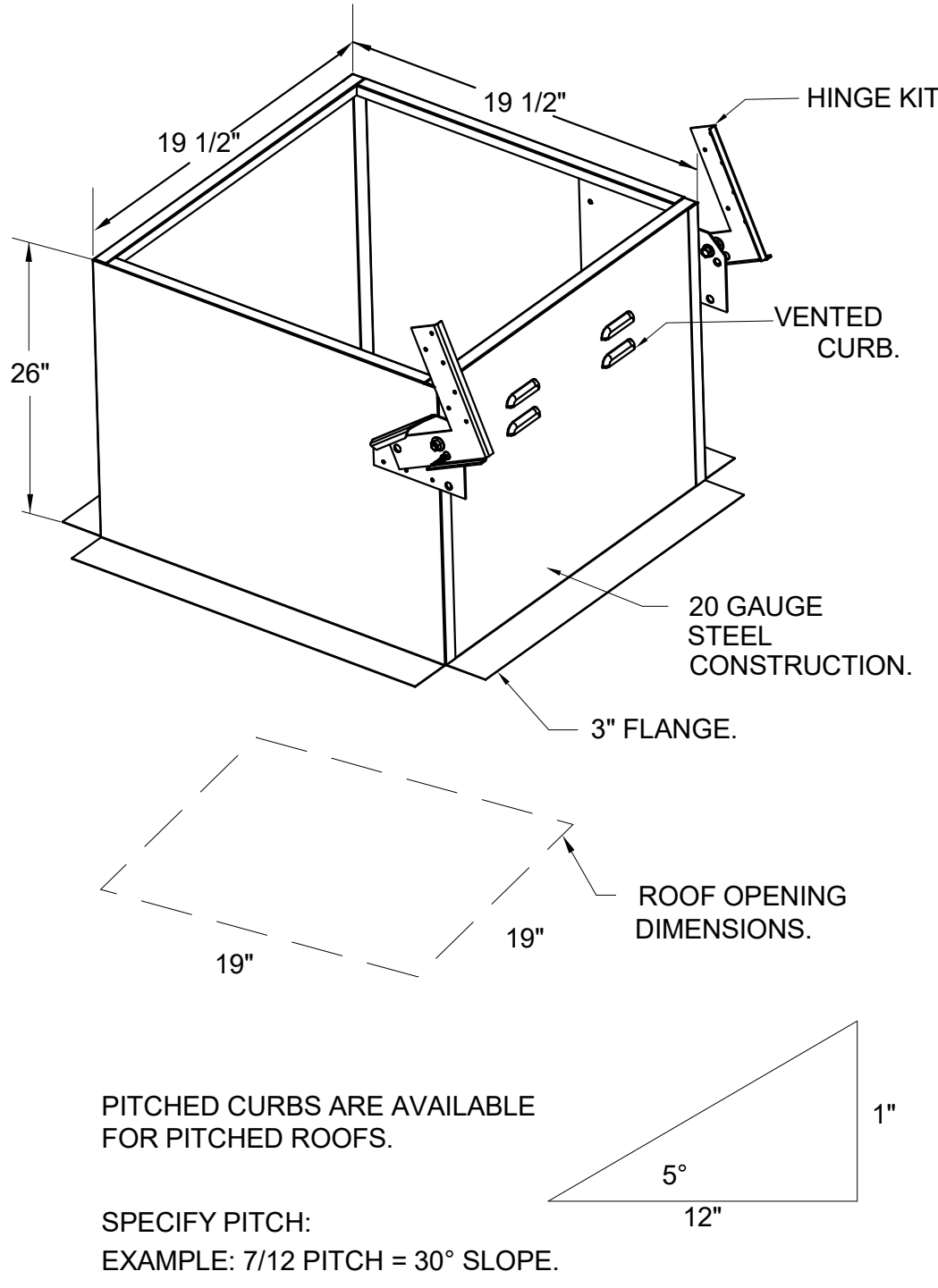
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS:

- GREASE BOX.
- EXHAUST FAN HEAT BAFFLE.
- FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
- ECM WIRING PACKAGE - PWM SIGNAL FROM ECM03 PREWIRE (TELCO MOTOR), COW ROTATION.
- 2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.
SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

Exhaust Fan Wiring		JOB	5800061 - Nolensville Fire Station
DRAWING NUMBER	EXH5800061-1	SHIP DATE	1/11/2023
MODEL	DU50HFA	Installed Options	
1			
2			
3			
4			
5			
6			
7			
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9			
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12			
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23			

GREASE BOX INSTALLATION

PARTS INCLUDED

GREASE BOX.
GREASE BOX COVER.
GREASE PIPE.
SHEET METAL SCREWS
3 - LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

STEP 1)
ATTACH GREASE BOX COVER TO THE CURB. HOLD 3" DIMENSION AS SHOWN ON PIC. 1. SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.) SCREWS AS SHOWN ON PIC. 2.

STEP 2)
ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP. AS SHOWN ON PIC. 3.

STEP 3)
INSTALL GREASE PIPE AS SHOWN ON PIC. 4.

***NOTE: UL 705 INSTALL.**

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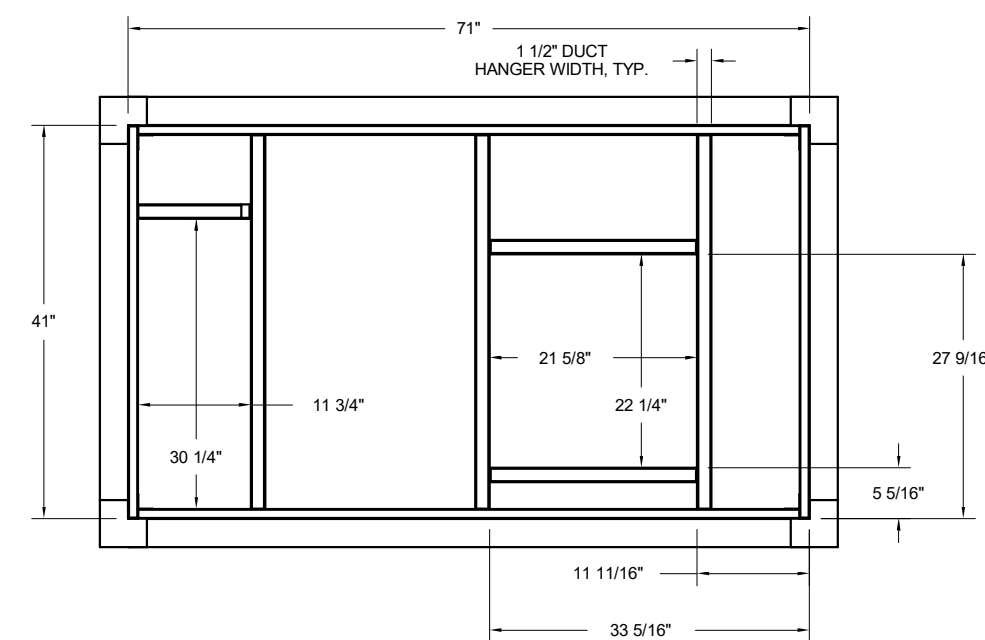
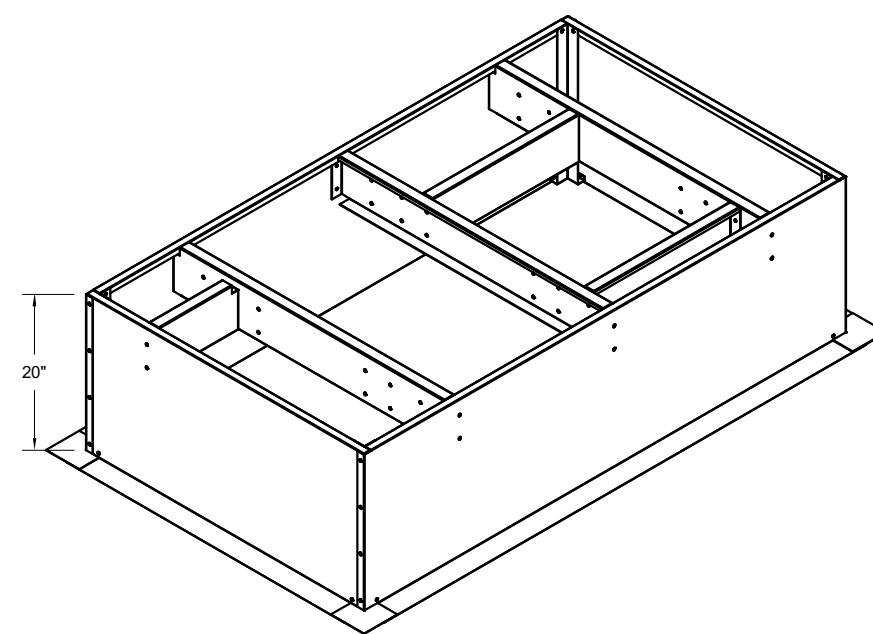
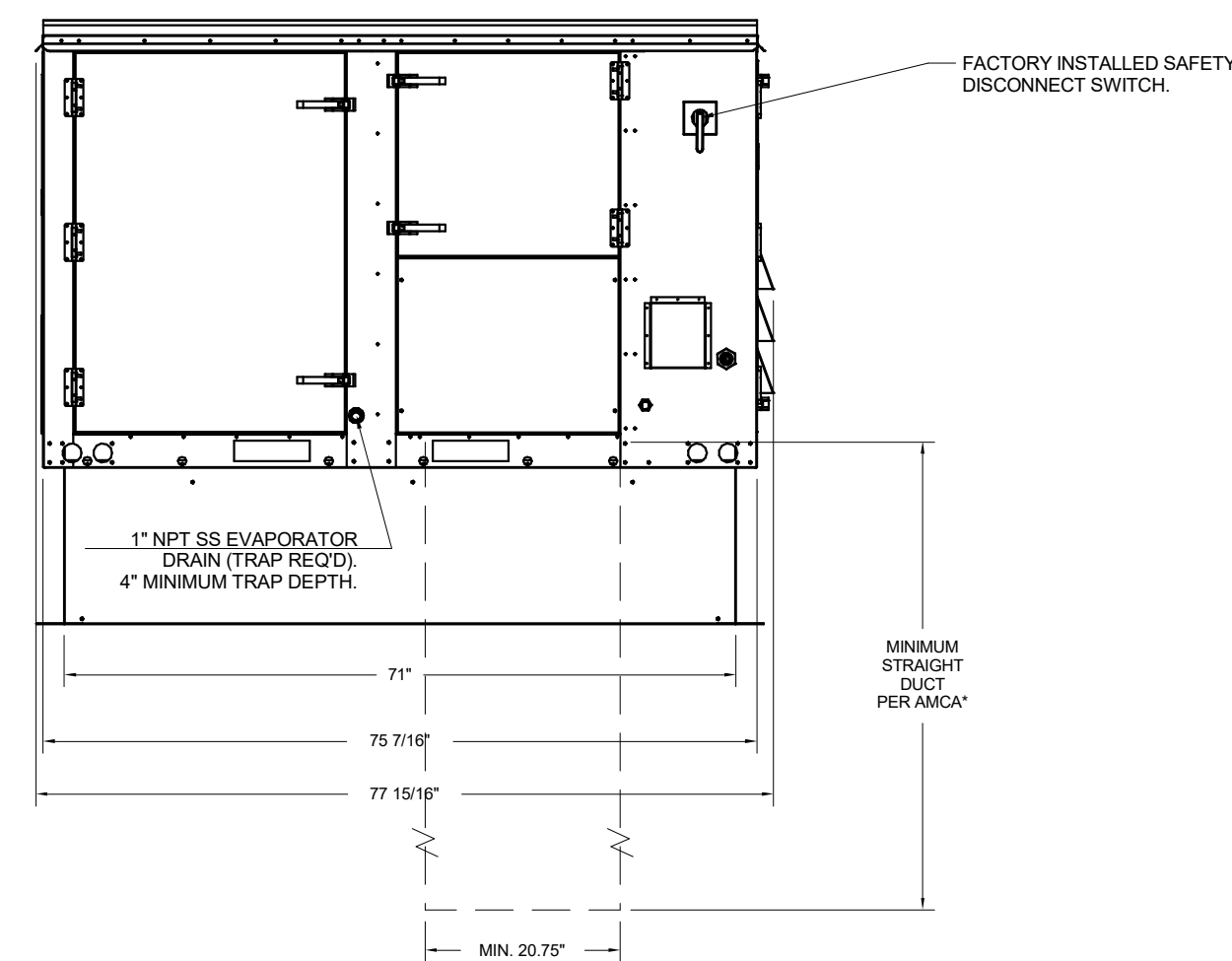
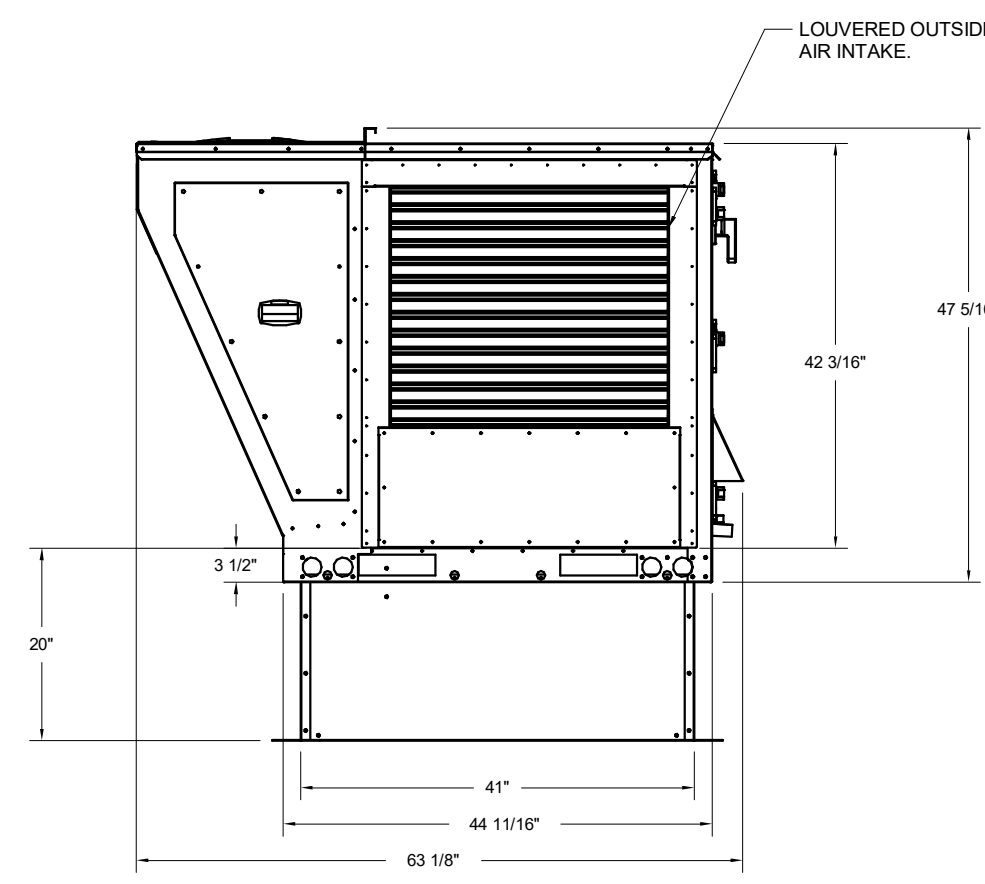
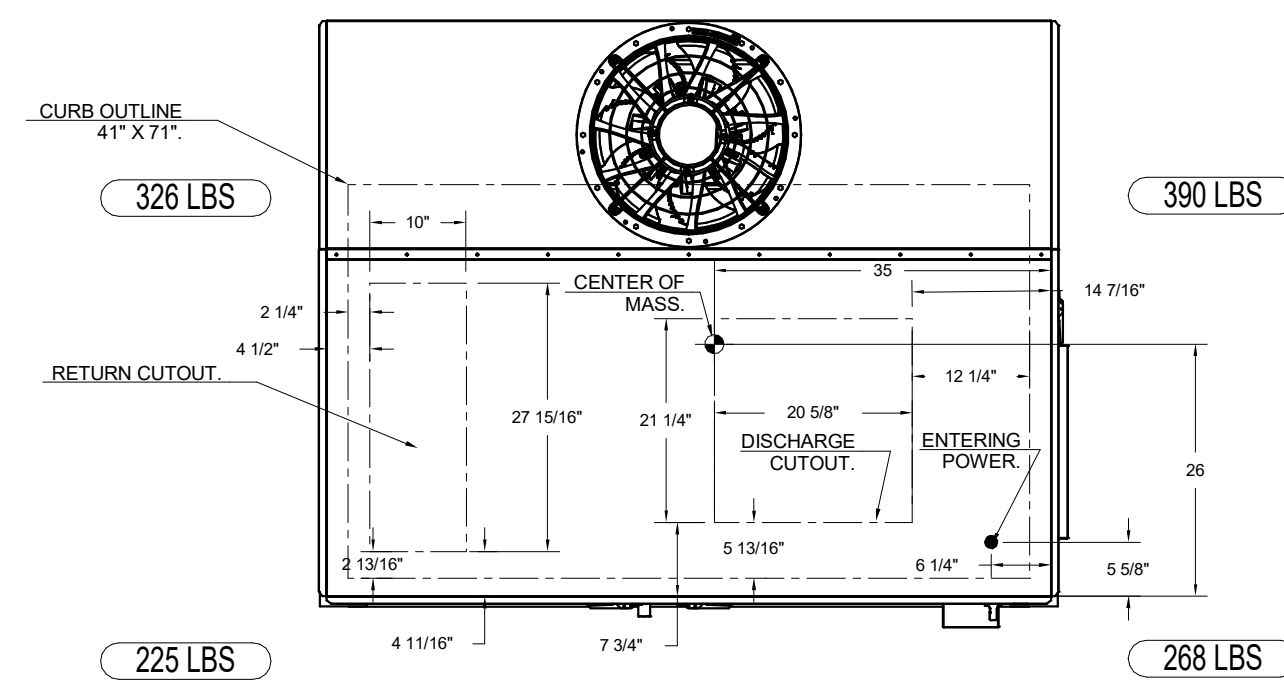
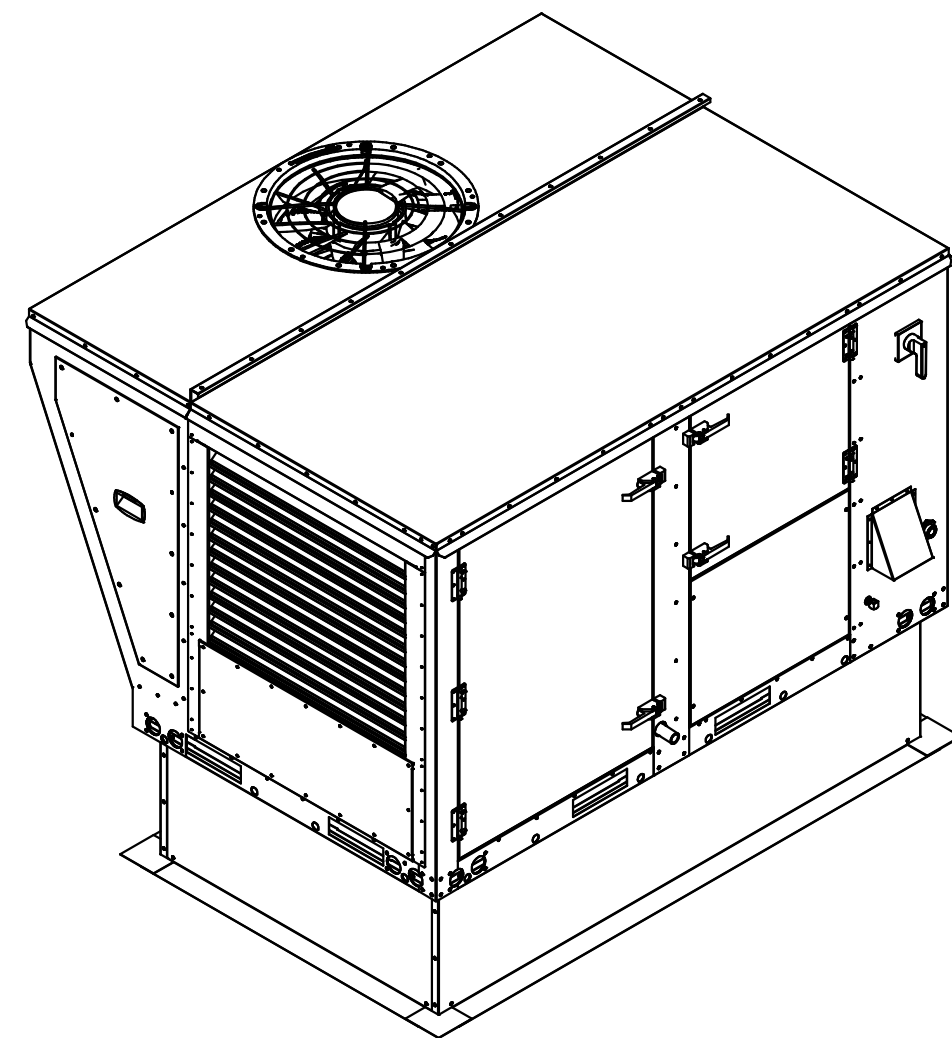
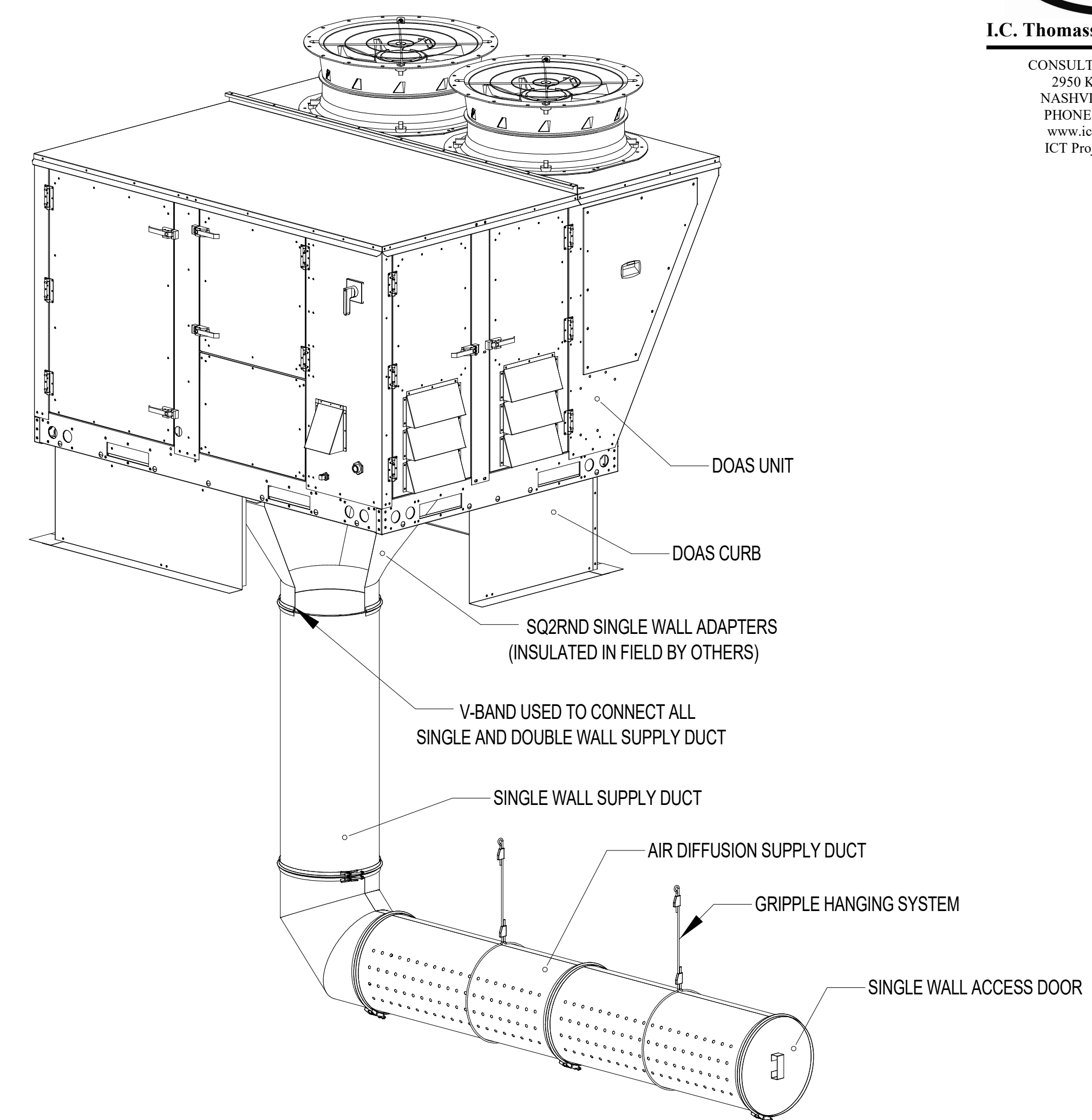
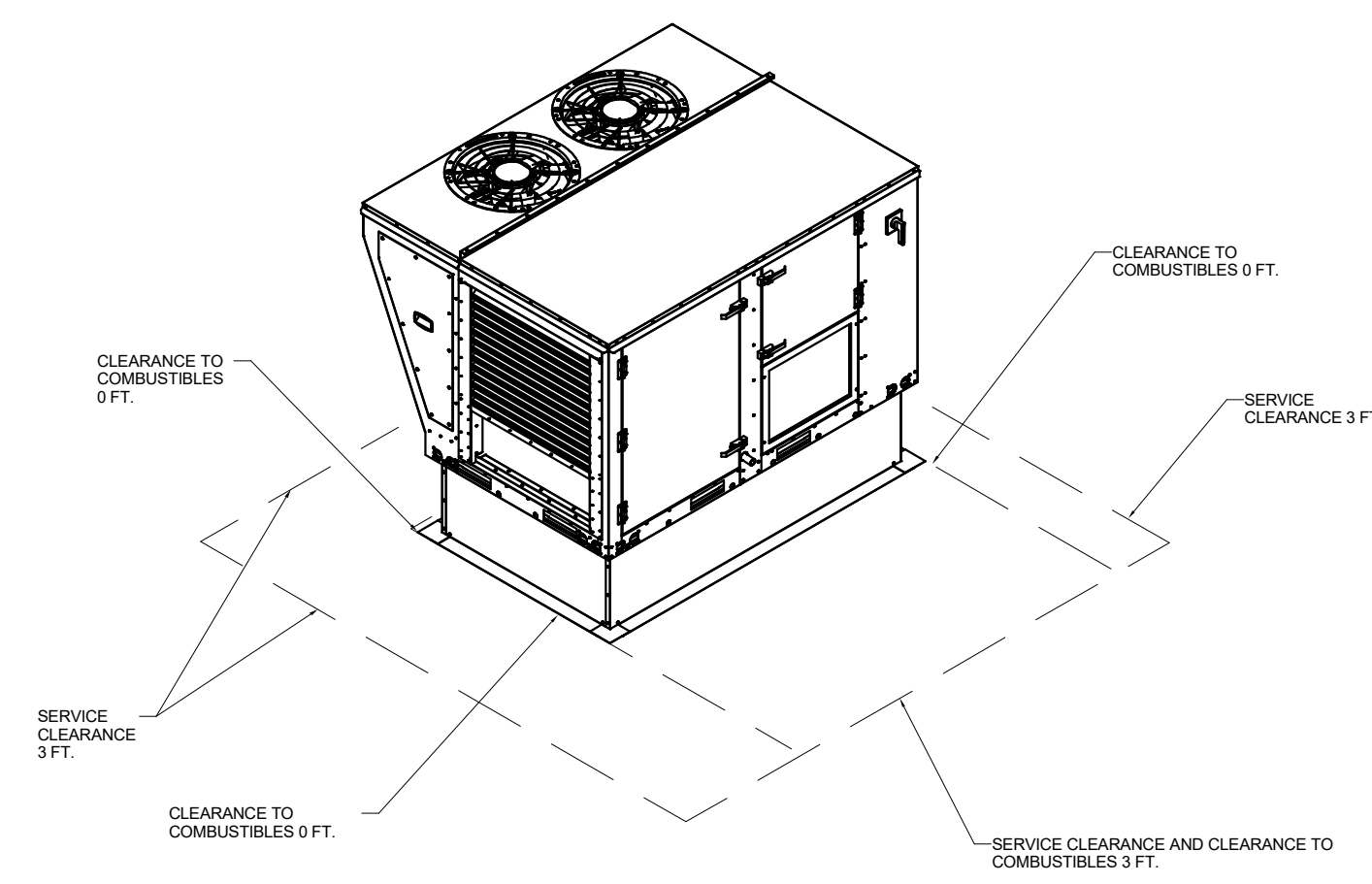
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EMAIL: reg44@captivaire.com

FAN #2 CASRTU1-E.152-15-5T - HEATER (RTU1)

NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20.75" x 21.5".



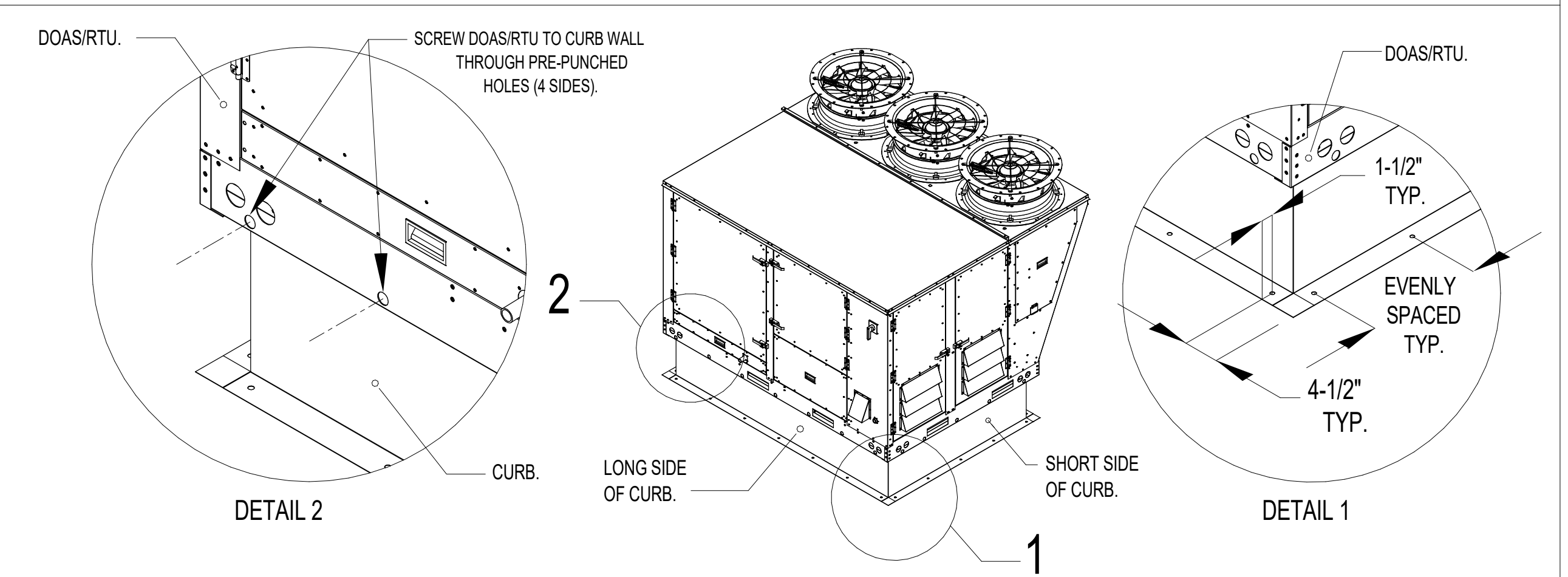
AIR DIFFUSION SUPPLY DUCT SPECIFICATIONS:
 PROVIDE AIR DIFFUSION SUPPLY DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL DW-S0(HC), DW-S90(HC), & DW-S180(HC). THREE DISTINCT HOLE PATTERN OPTIONS TO COVER A VARIETY OF CEILING HEIGHTS. NO ADDITIONAL DIFFUSERS REQUIRED, AS THE DUCT ITSELF PROVIDES AIR DIFFUSION. MADE OF HIGH QUALITY STAINLESS STEEL DESIGNED TO LAST 20+ YEARS. HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 24 GAUGE, 430 SS - 5" THRU 24". HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 20 GAUGE, 430 SS - 26" THRU 36". QUICK ONSITE ASSEMBLY USING EPDM GASKETS & UNIVERSAL V-BANDS. DOUBLE WALL SUPPLY DUCT AVAILABLE FOR INTERIOR AND EXTERIOR SPACES, EITHER CONDITIONED OR UNCONDITIONED. DOUBLE WALL SUPPLY DUCT AVAILABLE IN DW-1S, DW-2S, & DW-3S TO MEET SPECIFIC REGIONAL "R" VALUE REQUIREMENTS.

Insulation R-Value Recommendations		
Supply Duct Type	Minimum R-value	Space Type
Single Wall - S & -HC	N/A	Conditioned Space Only
Double Wall - 1S	R-4	Unconditioned Interior Space Only
Double Wall - 2S	R-8	Unconditioned Space Climate Zones 1-4
Double Wall - 3S	R-12	Unconditioned Space Climate Zones 5-8

DOUBLE WALL SUPPLY DUCT IS INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL. AIR DIFFUSION SUPPLY DUCT COMPLIES WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS) BEST PRACTICES. POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTION TO DISCHARGE, SEE NFPA 13, TABLE 8.12.5.1.1.

TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

- SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.
- SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



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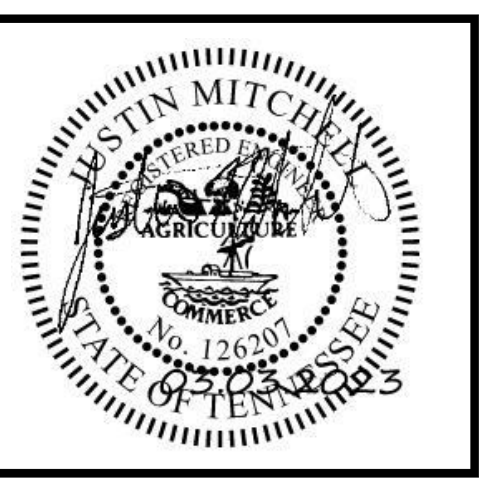
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Signature: _____ Date: _____

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 Darin Richardson
 PHONE: (615) 598-8300
 EMAIL: rrg4@captiveaire.com



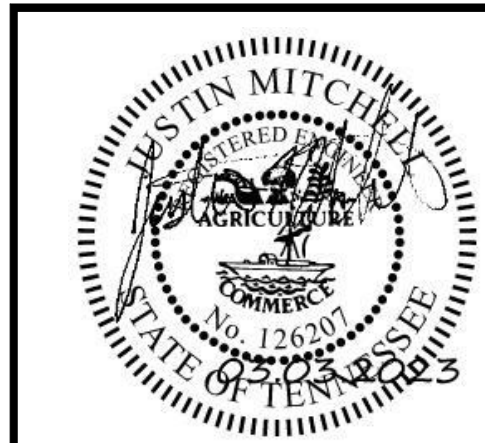
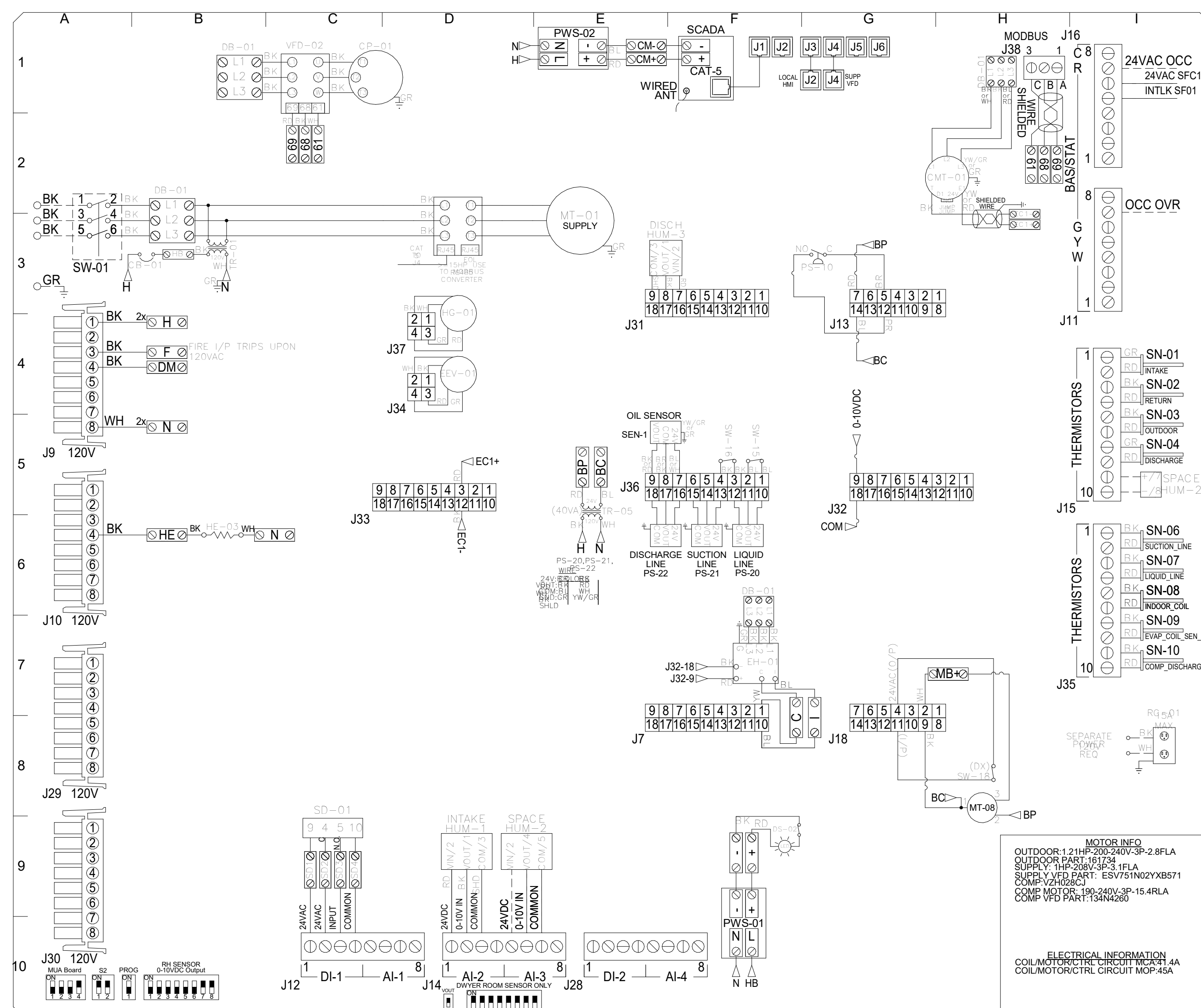
**TOWN OF NOLENSVILLE
 FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE**

REVISIONS

NO.	DESCRIPTION	DATE

DR. BY: ICT
 CK. BY: ICT
 PROJ. NO.: A01122
 DATE: 03/03/23

HOOD DETAILS
M508

TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE

COMPONENT LIST

DESCRIPTION	QTY	UNIT
C8-01 CIRCUIT BREAKER	1	CB
C8-04 SCADA COMM MODULE	1	F1
C10-01 COMMUTATING DRV	1	CD
C10-02 DISTRIBUTION BLOCK	1	CD
C10-03 ELEC DOOR SW	1	CB
C10-04 ELEC DOOR SW	1	CB
C10-05 ELEC DOOR SW	1	CB
D1-01 DISCHARGE HEATER	1	HE
D1-02 REHEAT VALVE	1	CD
J38-01 WASTEWATER PUMP	1	PM
J38-02 GAS LEB. STOP	1	PS
M1-01 SUPPLY MOTOR	1	ES
M10-01 MFD DAMPER_MTR	1	HE
PS-18 CLASS. FILTER SWITCH	1	GS
PS-19 LIQUID LINE PRES. SWITCH	1	PS
PS-20 DISCHARGE LINE PRES. SWITCH	1	PS
PS-21 DISCHARGE LINE PRES. SWITCH	1	PS
PS-22 EX. FLAG SWITCH	1	HE
TR-01 CTRL. TRANSFER	1	ES
TR-02 BOARD POWER TRANS.	1	ES
VFD-01 SUPPLY FAN VFD	1	CD
VFD-02 COMP_VFD	1	CD

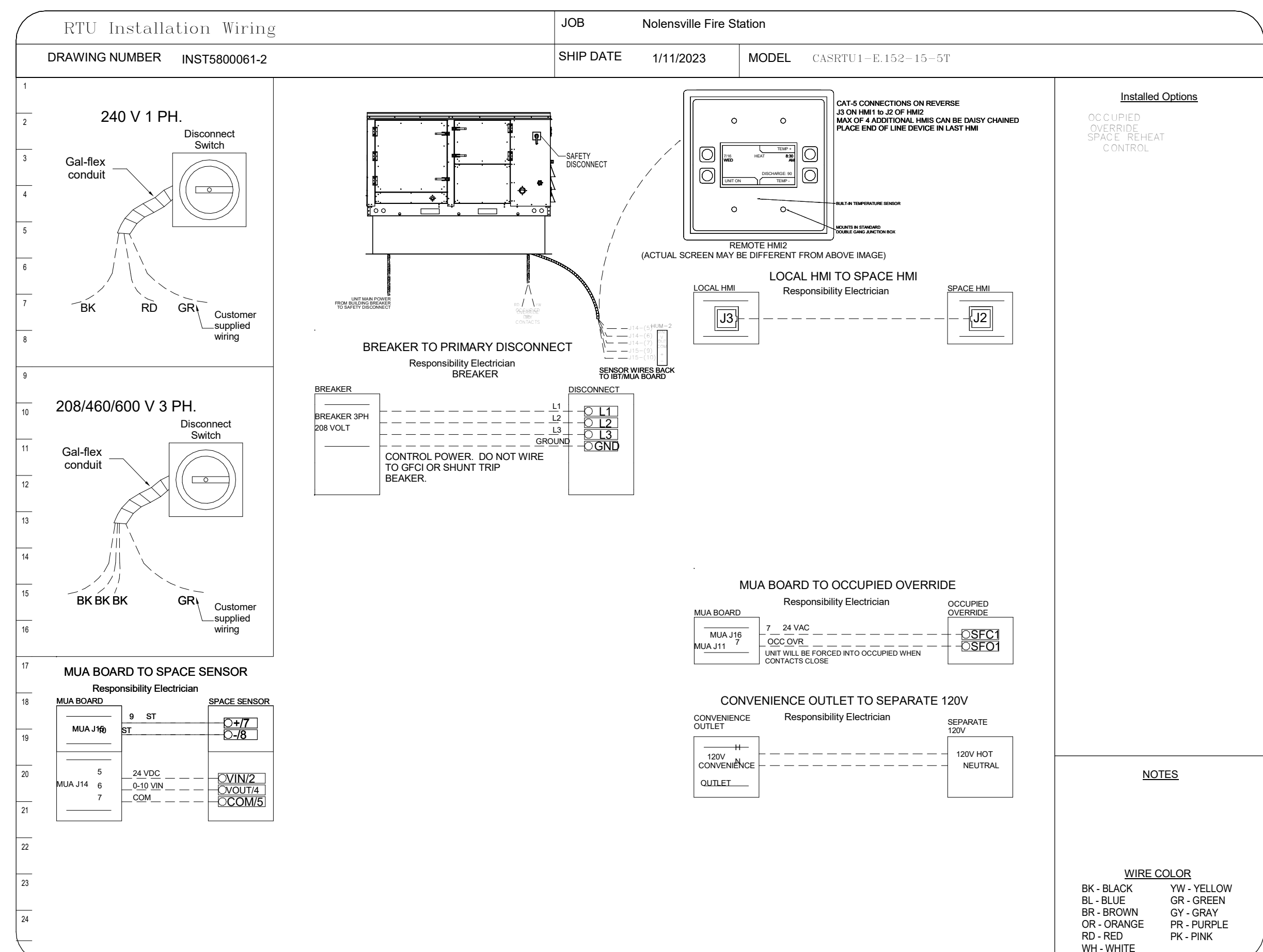
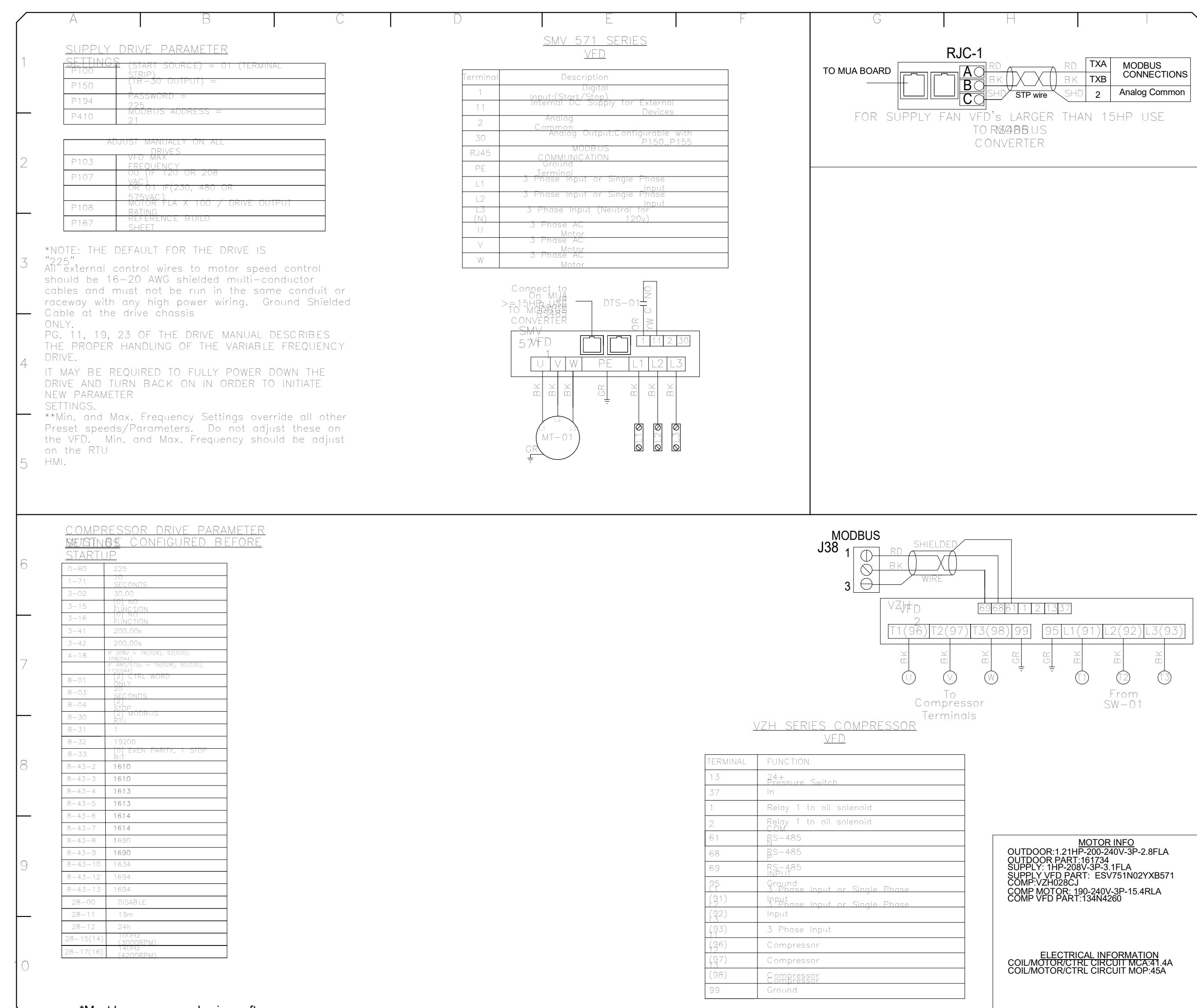
LEGEND

FIELD WIRING
 BK-BLACK
 BL-BLUE
 BR-BROWN
 GR-GREEN
 RD-RED
 WH-WHITE

FACTORY WIRING
 BK-BLACK
 BL-BLUE
 BR-BROWN
 GR-GREEN
 RD-RED
 WH-WHITE

MOTOR INFO
 OUTDOOR: 12HP 200-240V 3P-2.8FLA
 SUCTION: 2HP 200-240V 3P-2.8FLA
 DISCHARGE: 1HP 200-240V 3P-2.8FLA
 COMP: 1/2HP 200-240V 3P-15.4RLA

ELECTRICAL INFORMATION
 COLUMN MOTOR CONTROL CIRCUIT MOP-45A
 COLUMN MOTOR CONTROL CIRCUIT MOP-45A



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NO.	DESCRIPTION	DATE	BY

DR. BY: ICT
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 DATE: 03/03/23
HOOD DETAILS

M509



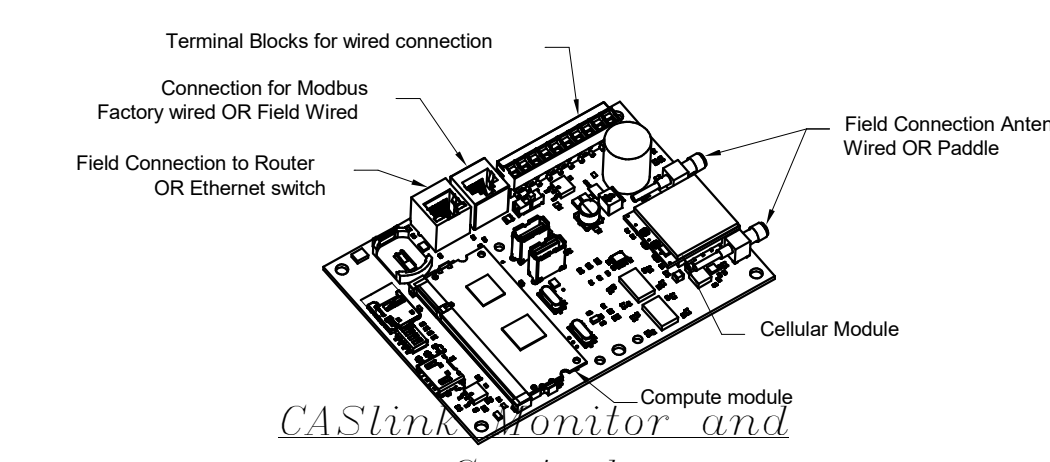
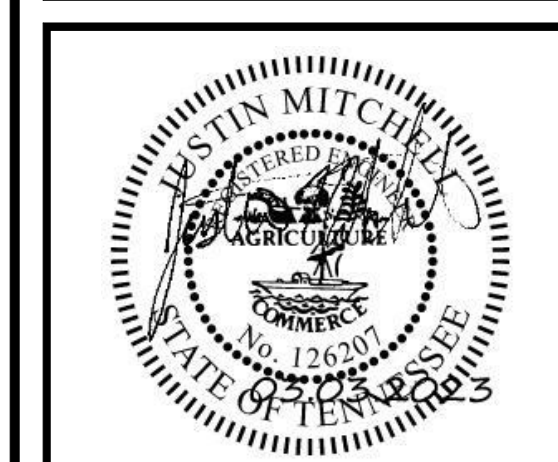
I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE
NASHVILLE, TN, 37211
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www.ictthomasson.com
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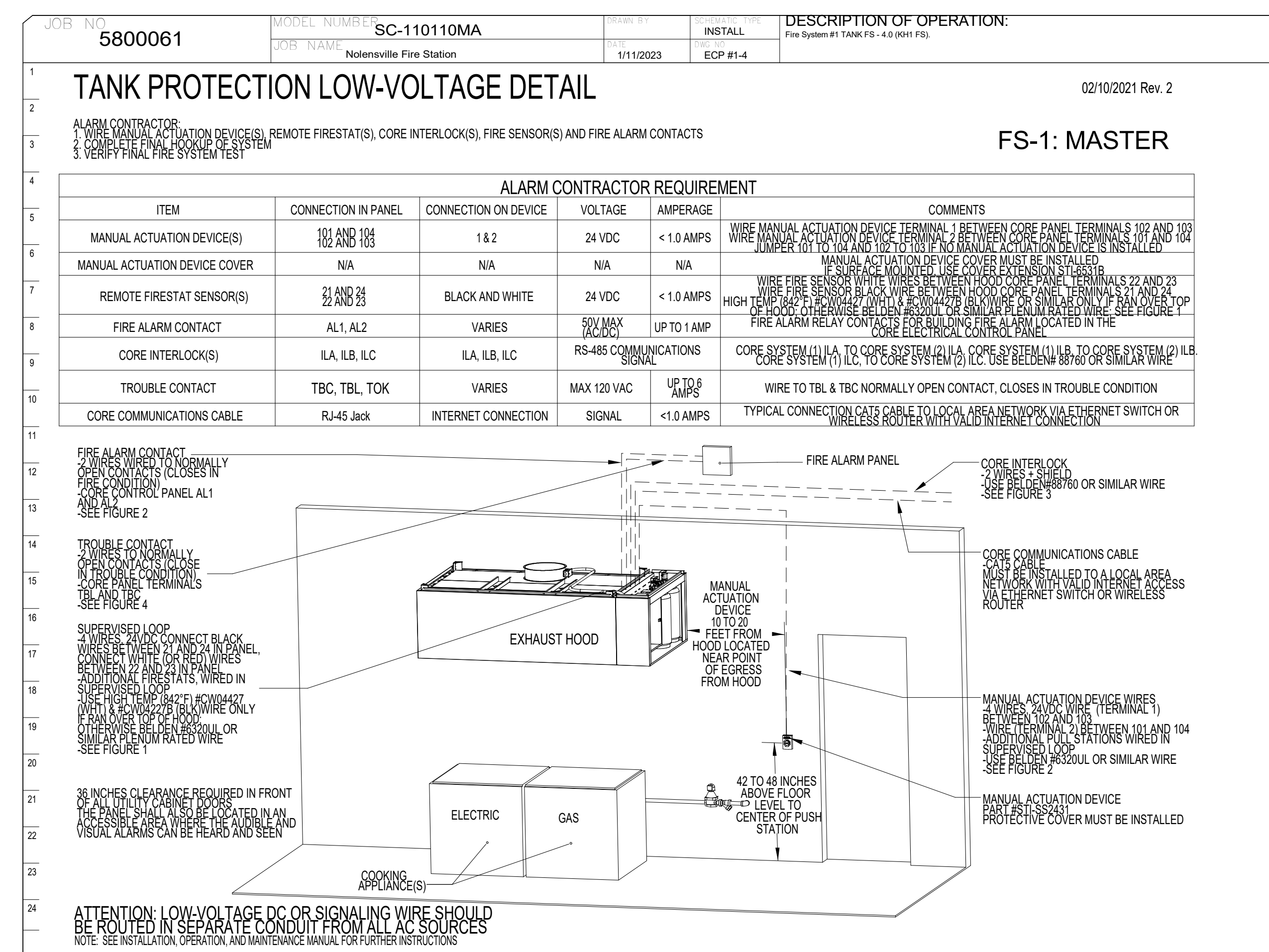
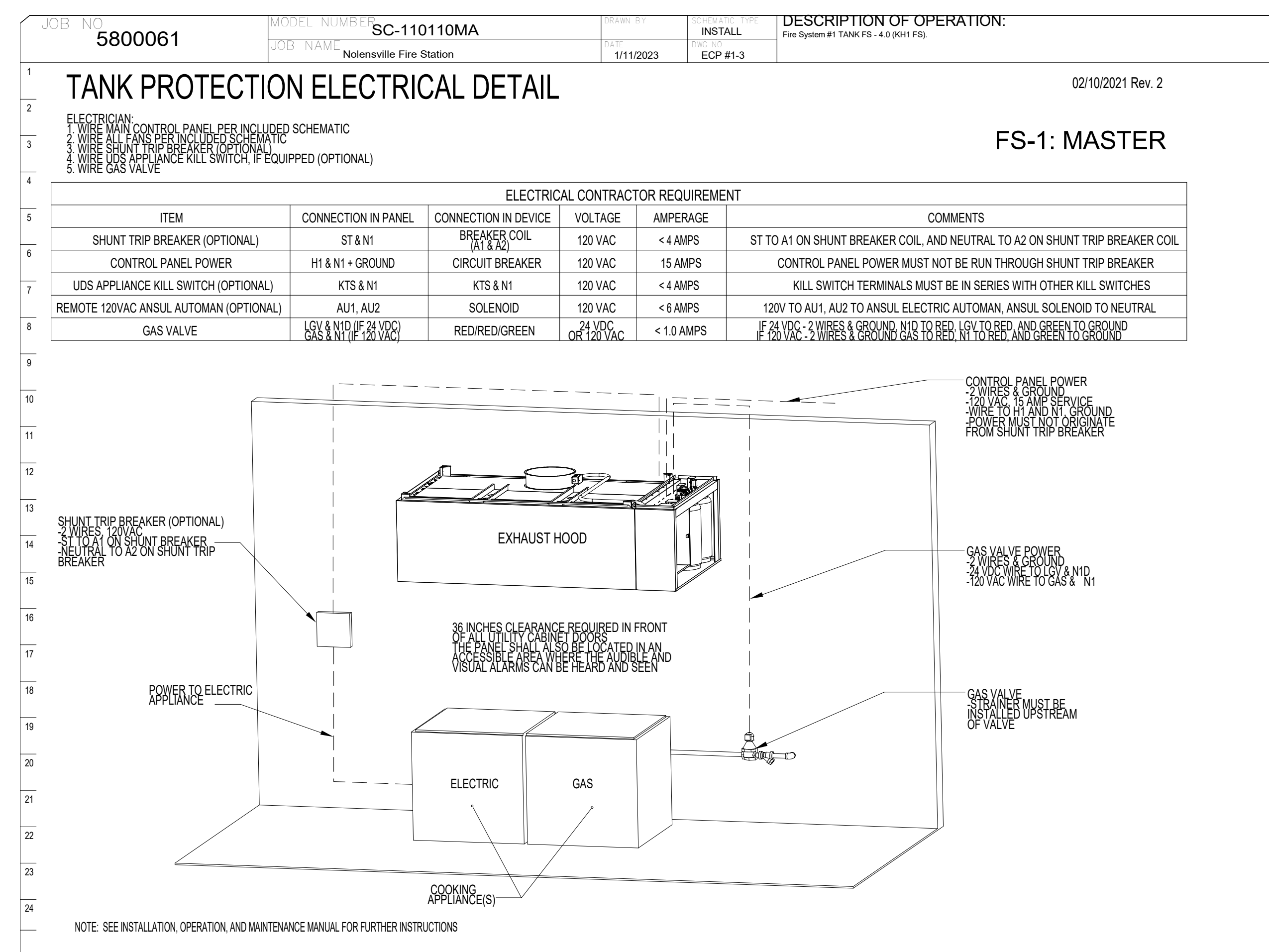
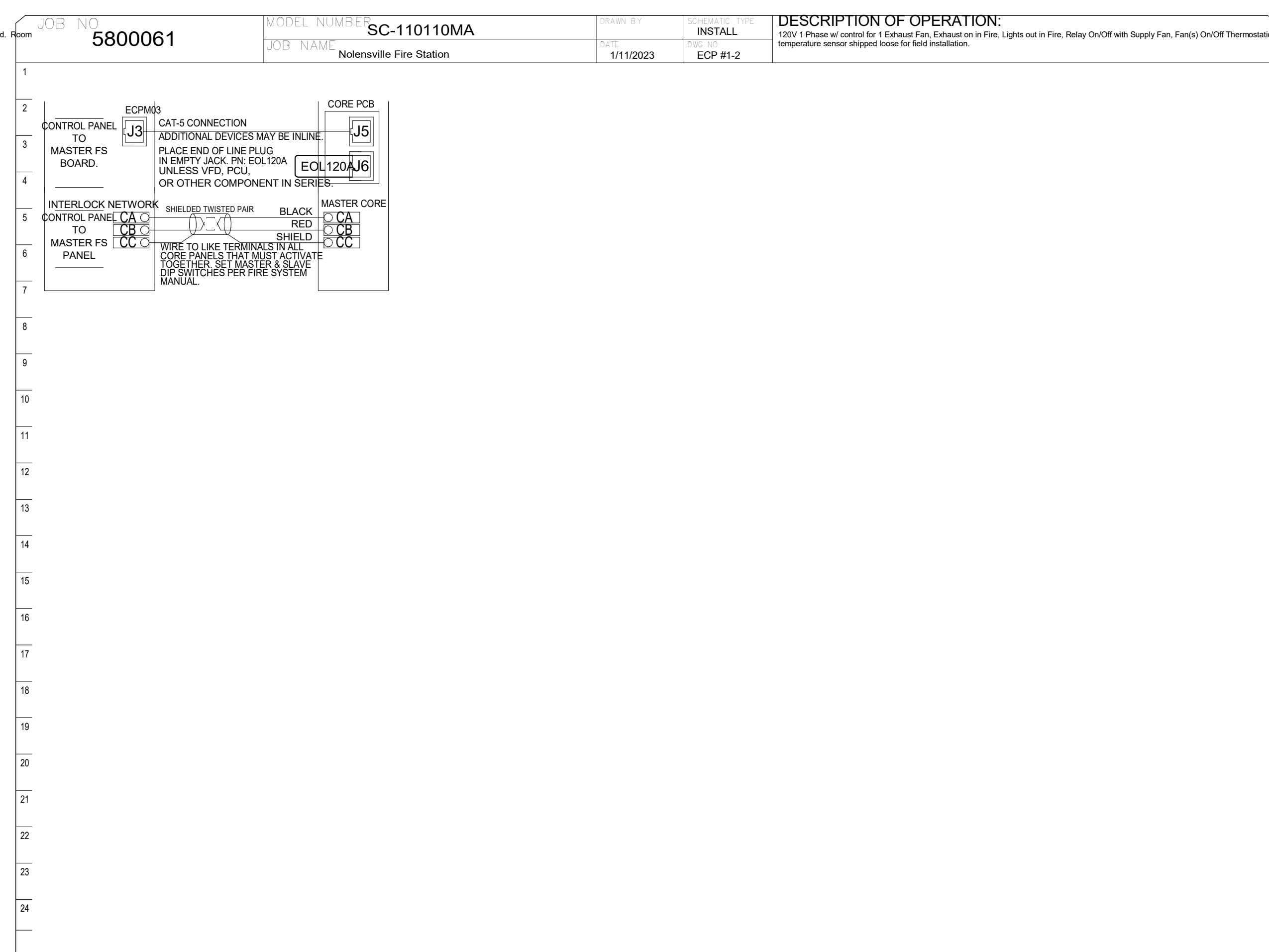
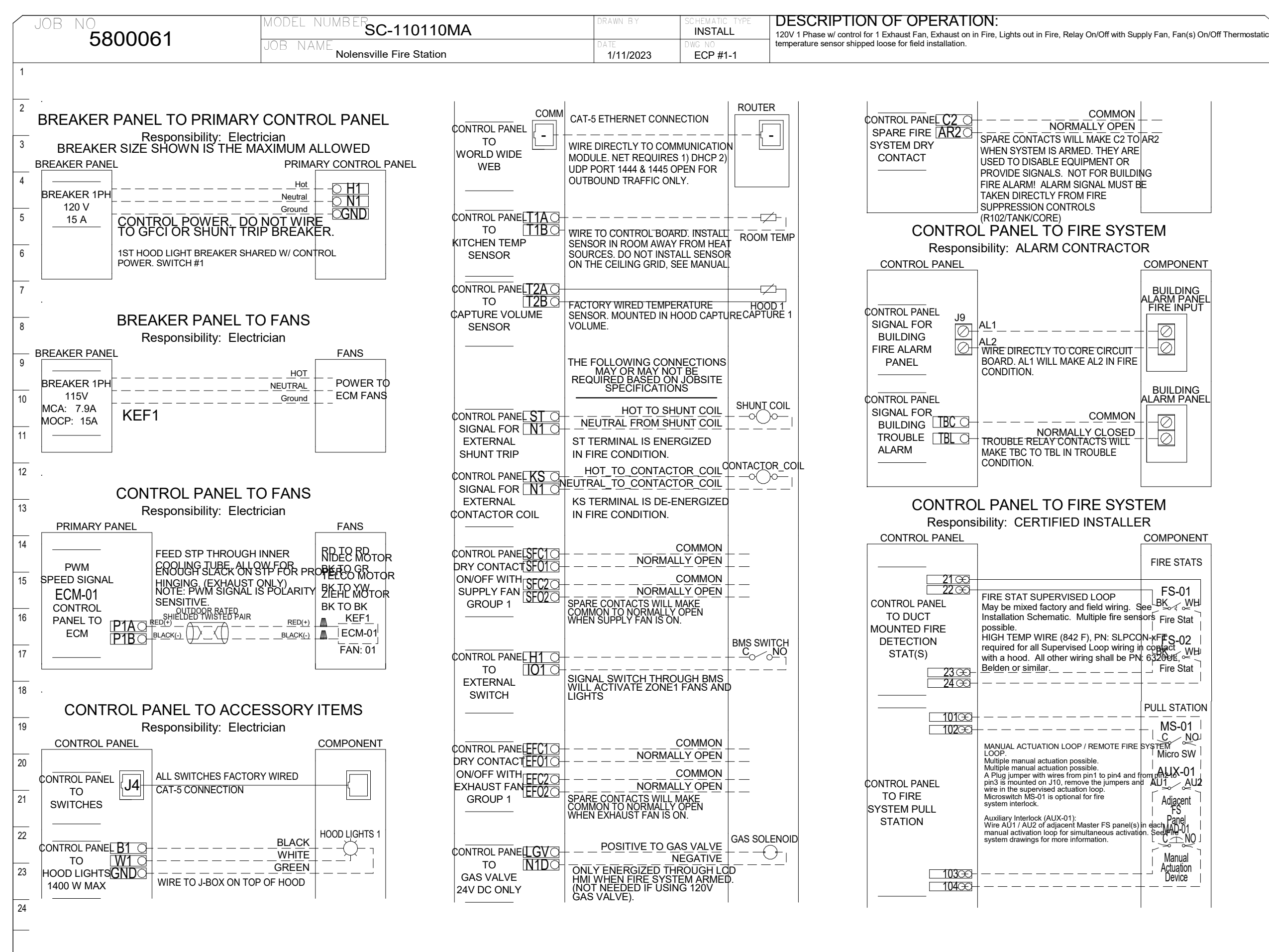


Control
Hood control panel to support communications to cloud-based Building Management System (BMS) real time parameters outlined as MONITOR in the points list. Hood Control Panel to allow cloud-based Building Management System (BMS) real time parameters outlined as CONTROL in the points list. Hood Control Panel to allow cloud-based Building Management System (BMS) real time parameters outlined as CONTROL in the points list. Hood Control Panel to allow cloud-based Building Management System (BMS) real time parameters outlined as CONTROL in the points list.

MONITORING AND CONTROL POINTS LIST

Table with 4 columns: Qty, Package, Function, and SC. Lists various monitoring and control points such as Temperature, Humidity, and Fire Alarm contacts.

Table with columns: NOB #, TAB #, PACKAGE #, LOCATION, SWITCHES, OPTION, FANS CONTROLLED. Lists equipment like ECP1, SC-110110MA, and utility cabinet right.



CUSTOMER APPROVAL TO MANUFACTURE:

Approval form with fields for Name, Title, Date, and checkboxes for 'Approved as Noted', 'Approved with NO Exception', 'Taken', 'Revise and Resubmit', and 'SIGNATURE'.

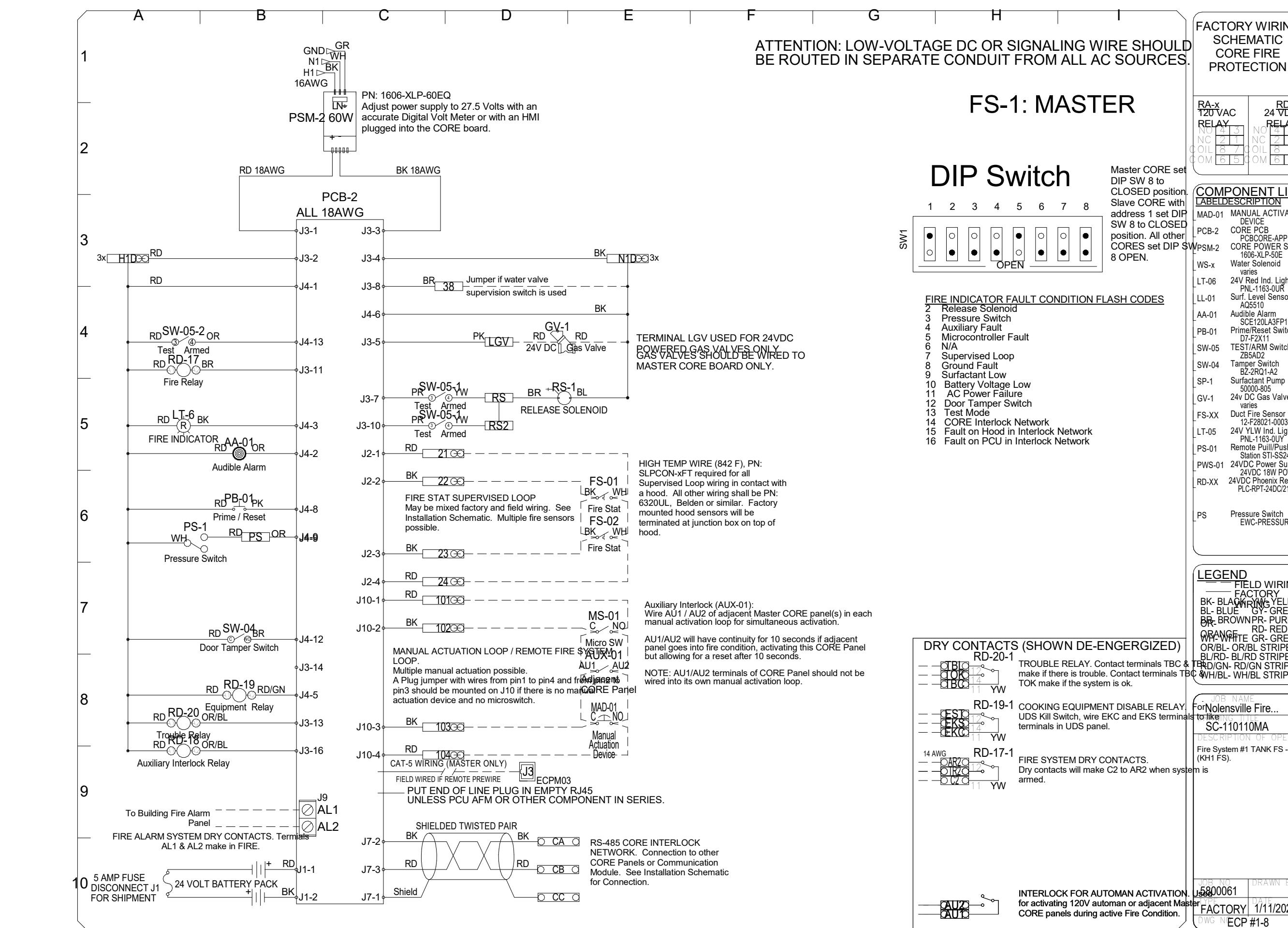
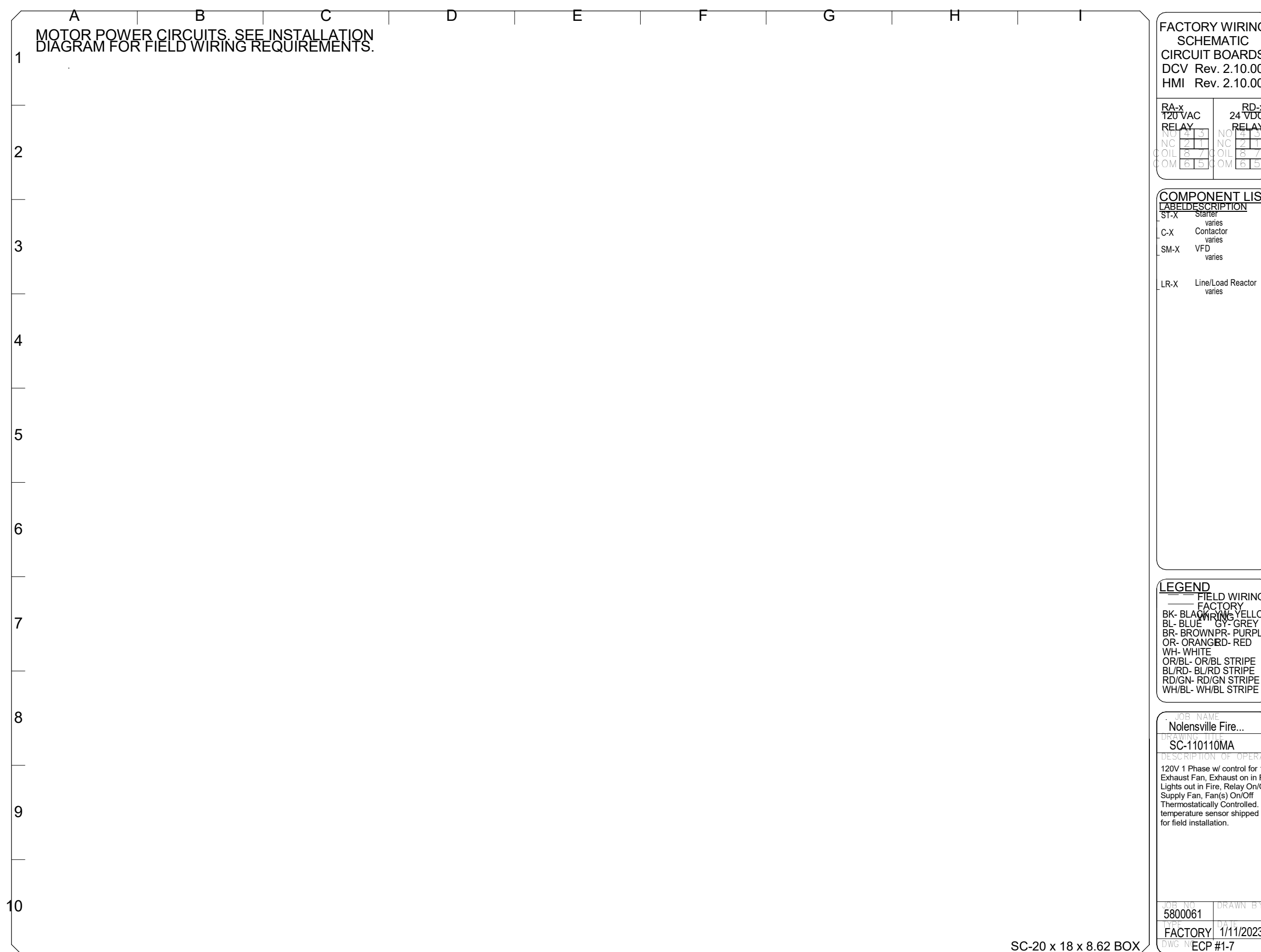
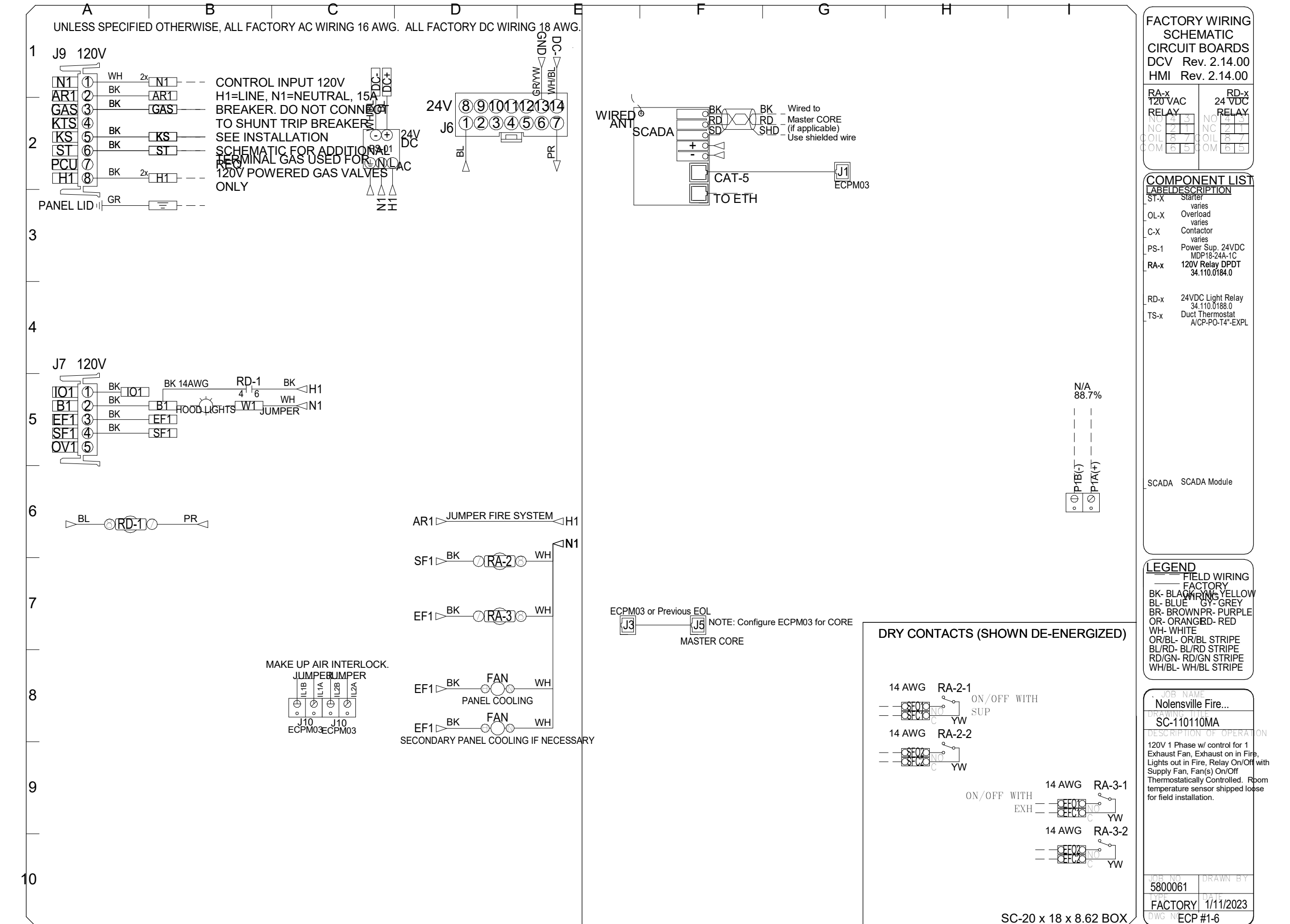
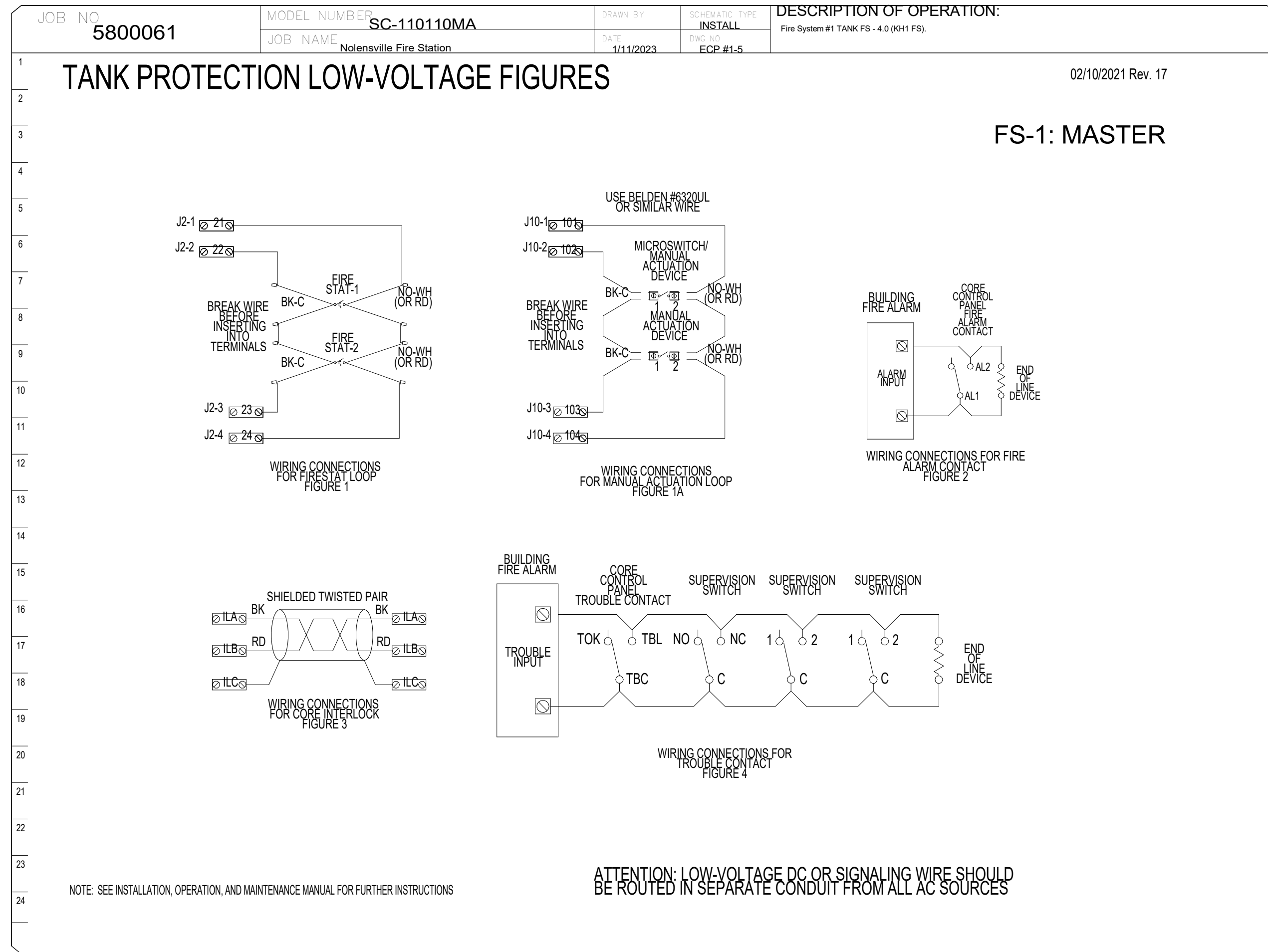
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REVISIONS table with columns for No., Description, and Date.

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CK. BY ICT
PROJ. NO. A01122
DATE 03/03/23
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M510



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HOOD DETAILS

M511

ELECTRIC WATER HEATER SCHEDULE

TAG	MFG.	MODEL NO.	STORAGE	RECOVERY GPH @ °F	ELECTRICAL CHARACTERISTICS	ELEMENTS & K.W.	LOCATION
WH-1	LOCHINVAR	CHV-K-24-150	150	100 @ 100	208/3/60	2 @ 1200 EA	MECH RM
WH-2	LOCHINVAR	LDS-30-T-K	30	46 @ 40	208/3/60	2 @ 4500 EA	MAINT 144

HOT WATER CIRCULATING PUMP SCHEDULE

TAG	DESIGN & LAYOUT		CAPACITY		HORSE POWER	ELECTRICAL CHARACTERISTICS	LOCATION
	MFG.	MODEL NO.	GPM	HEAD/FT			
CP-1	GRUNDFOS	UPS 32-160	2	12	1/3	208-1-60	WH-1

AIR COMPRESSOR SCHEDULE

ITEM	MFG. & MODEL NO.	DESCRIPTION	ELECTRICAL	HP	CAPACITIES	SIZE
*AC-1	INGERSOLL RAND 2475N7.5	TANK MOUNT W/ 80 GALLON VERTICAL TANK	208-3-60	7.5	90 PSI	48"Wx26"Lx57"H
**AC-2	BAUER VTC-7K/20	5 STAGE W/PS SECURUS PURIFICATION SYSTEM	208-3-60	20	20	21"Wx41"Lx57"H

*PROVIDE A COMPLETE PACKAGED SYSTEM WITH AIR COMPRESSOR, TANK, DRYER AND CONTROLS.
 **PROVIDE 2 CYLINDERS #ASME-7K-3.

GENERAL NOTES

- CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.
- PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER TO SERVE ALL FLOOR DRAINS.
- FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS.
- INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 50 FT.
- EXTEND DRAIN PIPING FROM REDUCED PRESSURE BACKFLOW PREVENTER TO FLOOR DRAIN THE RPBP SERVES.
- ALL EXPOSED WATER PIPING IN FINISHED SPACES TO BE CHROME PLATED.
- ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.
- ALL PLUMBING AND FIRE PROTECTION EQUIPMENT TO BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD.
- COORDINATE ALL ELECTRICAL, MECHANICAL, PLUMBING AND TECHNOLOGY EMBEDDED CONDUIT AND WALL PENETRATIONS PRIOR TO GROUTING WALLS SOLID.

FIXTURE CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	CONNECTION SIZE			
		WASTE	VENT	COLD WATER	HOT WATER
P-1	WATER CLOSET (WC, BF, SENSOR, HW)	4"	2"	1"	---
P-2	WATER CLOSET (WC, REG., SENSOR, HW)	4"	4"	1"	---
P-3	URINAL (SENSOR, HW)	2"	2"	3/4"	---
P-4	LAVATORY	2"	2"	1/2"	1/2"
P-5	SINK (SS, DC)	2"	2"	1/2"	1/2"
P-6	SINK (SS, BF)	2"	2"	1/2"	1/2"
P-7	SERVICE SINK	3"	2"	1/2"	1/2"
P-8	SHOWER, SOLID SURFACE, CENTER DRAIN	2"	2"	1/2"	1/2"
P-9	ICE MAKER BOX	---	---	1/2"	---
P-10	FLOOR DRAIN (REGULAR)	3"	2"	---	---
P-11	FLOOR DRAIN (MECH)	4"	2"	---	---
P-12	WALL HYDRANT (EXTERIOR)	---	---	3/4"	---
P-13	DRINKING FOUNTAIN, HI-LO, BOTTLE FILLER	2"	2"	1/2"	---
P-14	UTILITY SINK	2"	2"	1/2"	1/2"
P-15	EMERGENCY EYEWASH/SHOWER	1 1/4"	1 1/4"	---	---
P-16	TRENCH DRAIN	4"	2"	---	---
P-17	HOSE BIBB (INTERIOR)	---	---	3/4"	---
P-18	WASHER BOX	2"	2"	AS SHOWN	AS SHOWN
P-19	ROOF DRAIN	AS SHOWN	---	---	---
P-20	OVERFLOW ROOF DRAIN	AS SHOWN	---	---	---
P-21	LAVATORY (BF)	2"	2"	1/2"	1/2"
P-22	SINK, SC, SS	2"	2"	1/2"	1/2"

- NOTES:
- ALL WALL MTD. FIXTURES SHALL BE PROVIDED WITH FLOOR MOUNTED, CONCEALED ARM WALL CARRIER.
 - ALL EXPOSED P-TRAPS SHALL BE PROVIDED W/LAV SHIELDS.
 - PROVIDE BACKFLOW PREVENTER AT CONNECTION TO OWNER FURNISHED EQUIPMENT PER IPC.
 - PROVIDE AND INSTALL TRAP GUARDS FOR ALL FLOOR DRAINS.
 - IN ADDITION TO SERVICE VALVES SHOWN ON PLANS, PROVIDE AND INSTALL ISOLATION VALVES ON HOT AND COLD WATER SUPPLY PIPING TO EACH PLUMBING FIXTURE, INCLUDING TRAP PRIMERS.
 - SHOCKTROL TO BE ZURN SERIES Z-1700 OR EQUAL, SIZE AS INDICATED ON WATER RISER DIAGRAM. PROVIDE ACCESS TO ALL SHOCKTROLS THRU ACCESS PANELS, LAY-IN CEILINGS, WALL IN CHASE. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS OF FIXTURES.

PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT	MTD	MOUNTED
AFF	ABOVE FINISHED FLOOR	OFE	OWNER FURNISHED EQUIPMENT
CA	COMPRESSED AIR	PUB	PUBLIC
CONT	CONTINUATION	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
COORD	COORDINATION	SAN	SANITARY SEWER PIPING
CO	CLEAN OUT	SF	SQUARE FOOT
CW	COLD WATER LINE	SS	SOLID SURFACE
DN	DOWN	TMP	TEMPERATURE
DWG	DRAWING	TMV	THERMOSTATIC MIXING VALVE
EA	EACH	TYP	TYPICAL
FM	FLOOR MOUNTED	VTR	VENT THROUGH ROOF
FV	FLUSH VALVE	W/	WITH
GPM	GALLONS PER MINUTE	WC	WATER CLOSET
HW	HOT WATER LINE	WCO	WALL CLEAN OUT
HWR	HOT WATER RETURN	WH	WALL HUNG
LAV	LAVATORY		
MECH	MECHANICAL		

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	REDUCED PRESSURE BACKFLOW PREVENTER
	P TRAP
	BALL VALVE
	FLOOR DRAIN
P- No.	PLUMBING FIXTURE DESIGNATION
	END CAP
	COMPRESSED AIR
	COLD WATER SUPPLY
	HOT WATER SUPPLY
	HOT WATER RETURN
	OVERFLOW ROOF DRAIN
	RAINWATER LEADER
	SANITARY VENT
	SANITARY WASTE

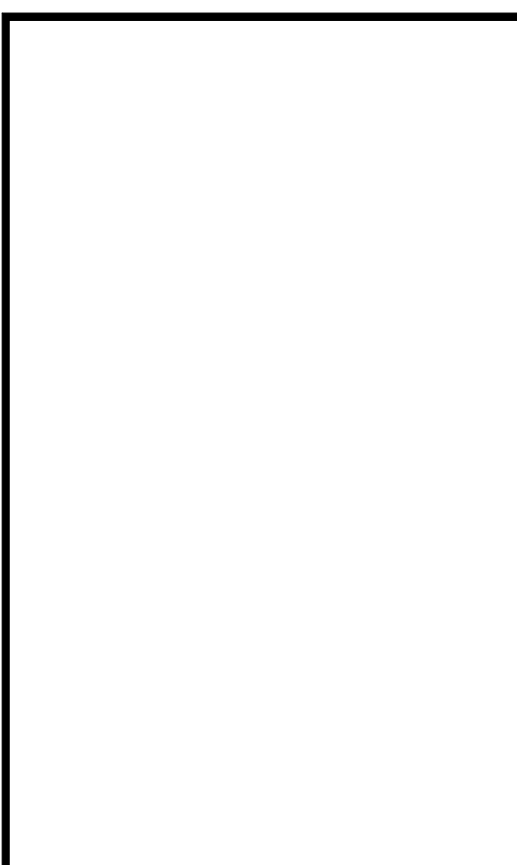


I.C. Thomasson Associates, Inc.
 CONSULTING ENGINEERS
 2950 KRAFT DRIVE
 NASHVILLE, TN 37211
 PHONE: (615) 346-3400
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 ICT Project No. 220082

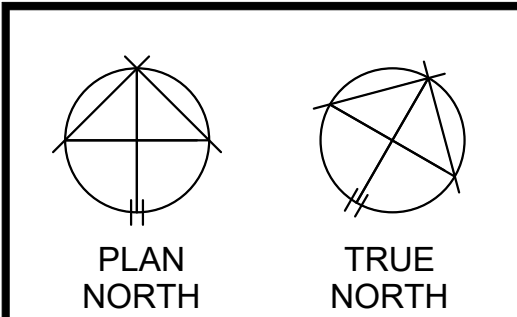


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 NOLENSVILLE, TENNESSEE



REVISIONS	

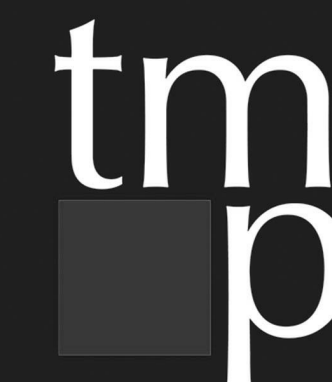
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 CK. BY David Peters
 PROJ. NO. A01122
 DATE 03/03/23

PLUMBING - LEGENDS AND SCHEDULES

P001

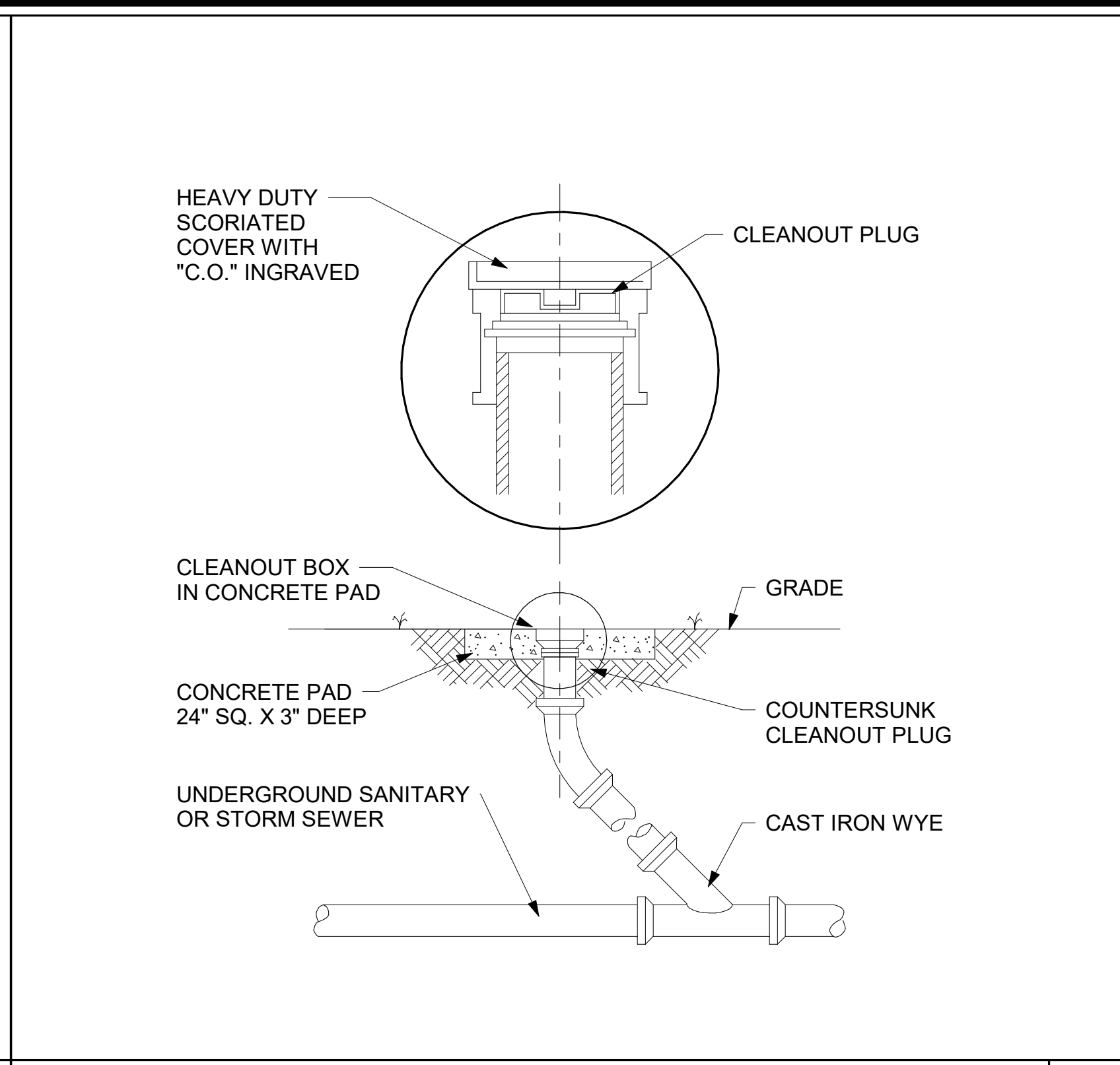
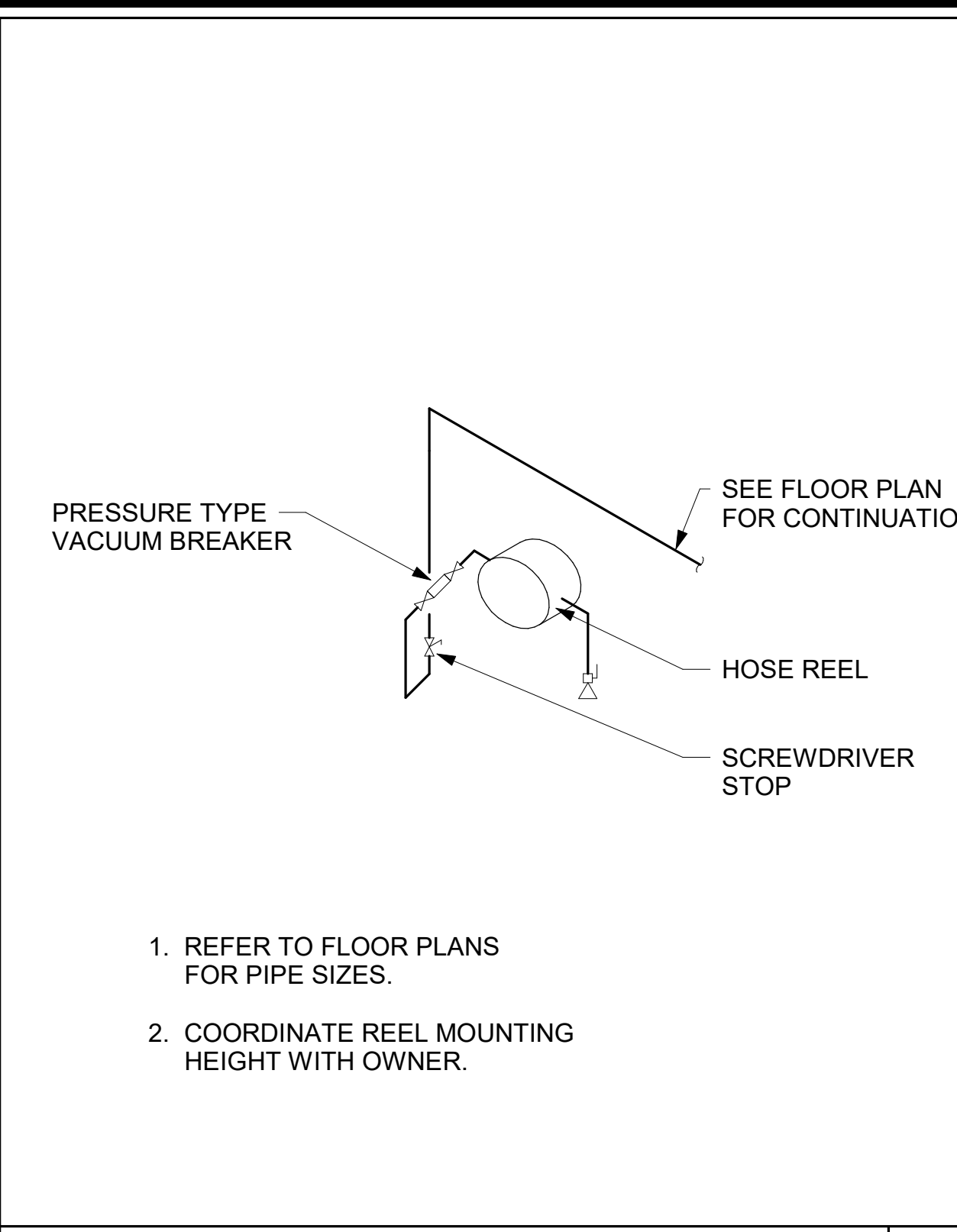
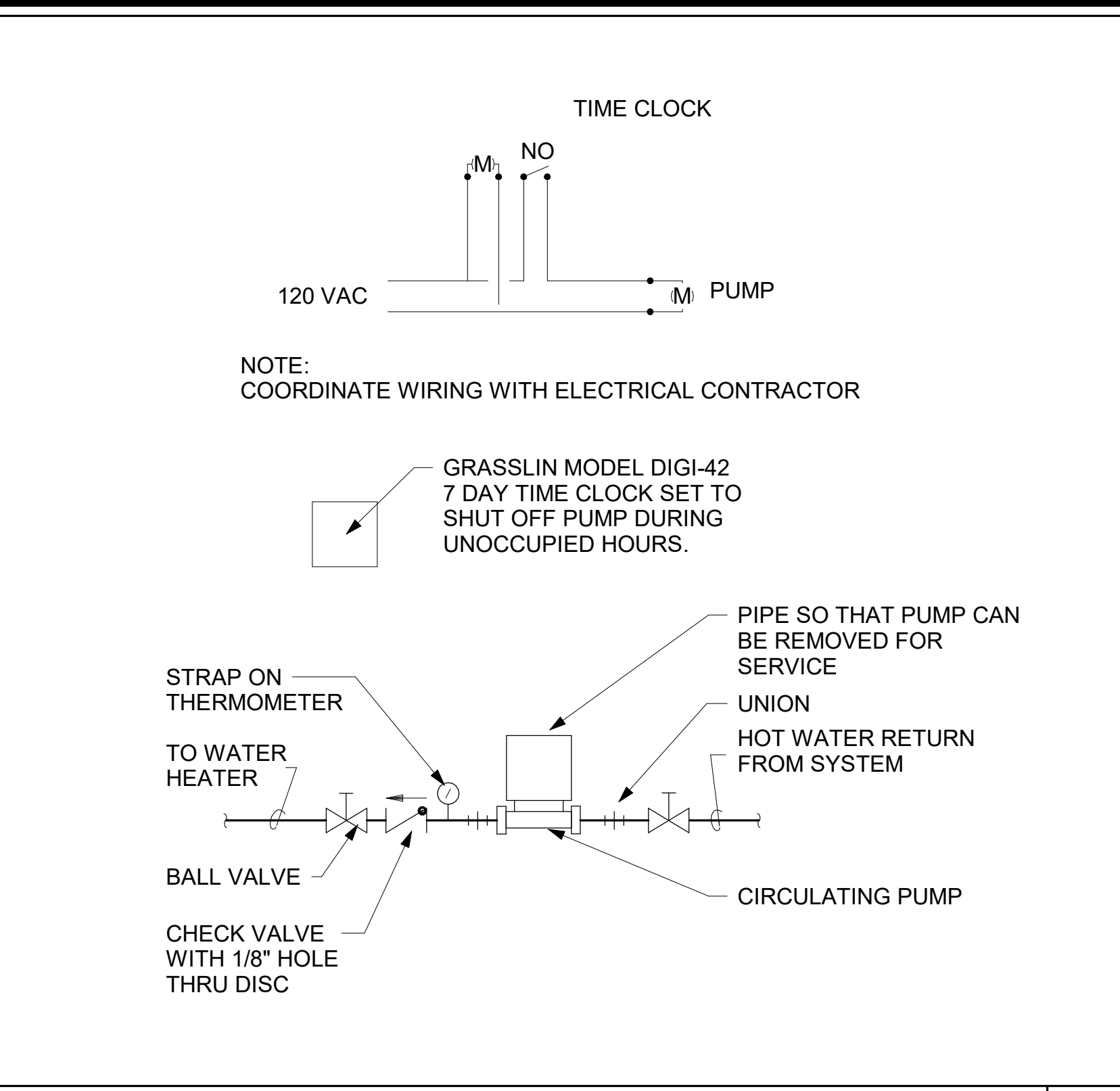
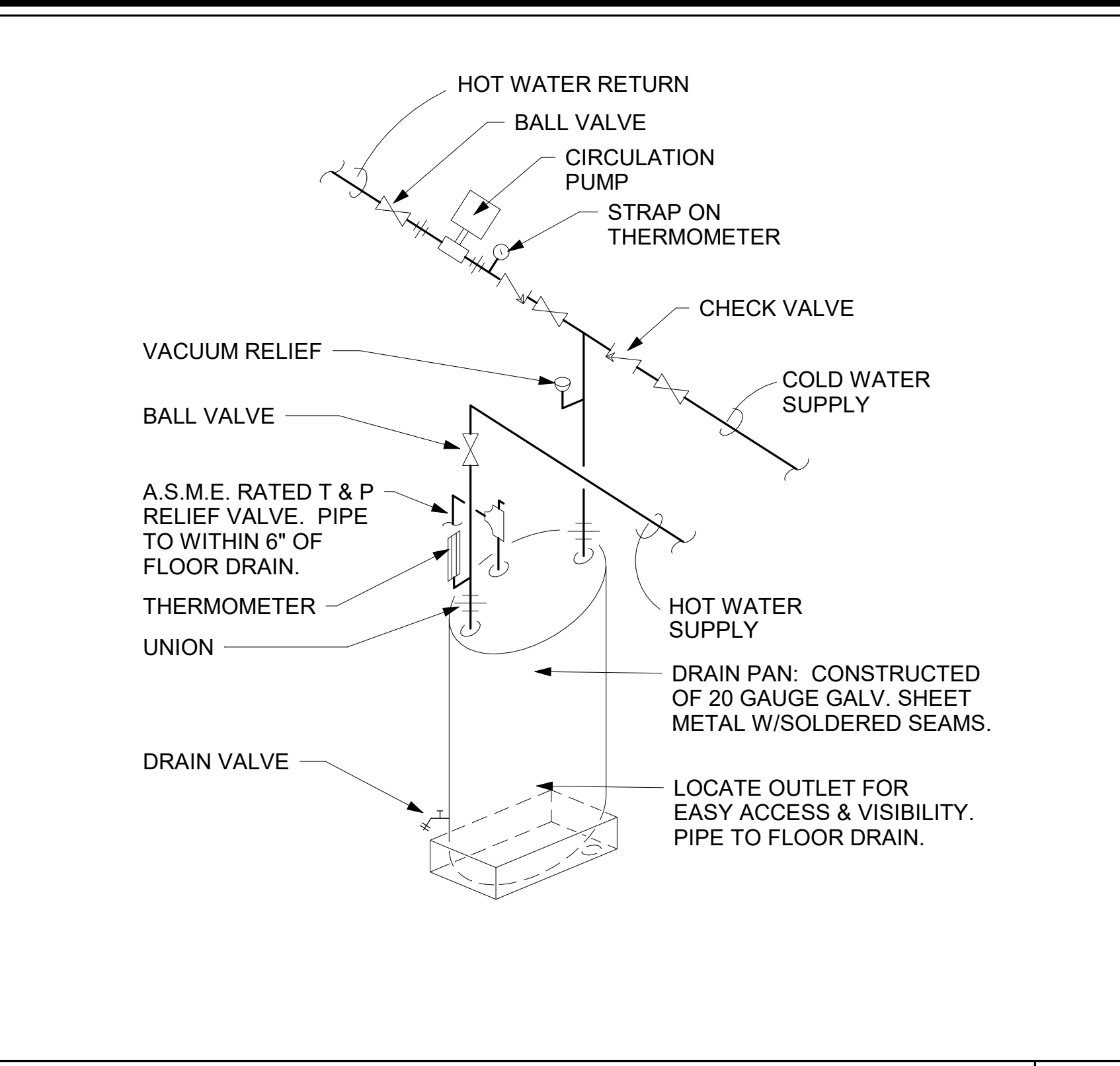
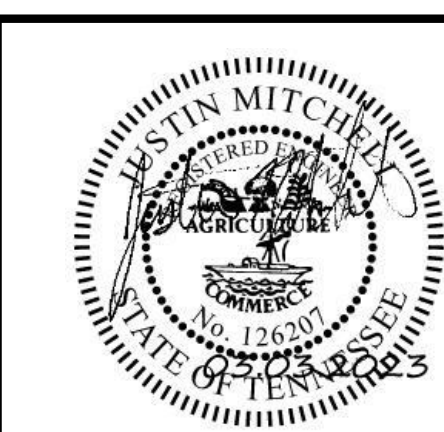


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ELECTRIC WATER HEATER DETAIL WITH CIRCULATION PUMP
 No Scale

1 IN-THE-LINE CIRCULATING PUMP DETAIL
 No Scale

2 HOSE REEL PIPING DETAIL
 No Scale

3 EXTERIOR CLEANOUT DETAIL
 No Scale

SPECIFICATIONS

- 4" Plain End inlet/outlet, 3" Plain End vents.
- Max flow rate: 100 GPM
- Capacities: Liquid: 250 gal. (33.4 cu. ft.); Oil: 144 gal.; Sand: 95 gal.
- Unit weight with composite cover: 230 lbs.; with cast iron: 346 lbs.
- Maximum operating temperature 140°F continuous.
- Highway rated covers: 16,000 lb. capacity.

NOTES

- Snap-in Flow control (ships with unit).
- Seamless medium density polyethylene tank.
- Unit supplied with built-in adapter for up to 5" of adjustability. Additional riser(s) available for deeper burial depth.
- Cover placement allows full access to tank for proper maintenance.
- Narrow footprint allows clearance through doorways and down stairs.
- Engineered inlet and outlet diffusers are removable to inspect/clean piping.
- For on-the-floor or buried applications.

DIFFUSION FLOW TECHNOLOGY

The inlet diffuser splits influent into three paths, creating laminar flow and utilizing the entire liquid volume of the tank for efficient oil separation. The calibrated openings greatly reduce influent turbulence. The influent enters the main chamber without disturbing the existing oil or sand layers. The bottom of the outlet diffuser allows only effluent that is free of oil to exit the tank.

ENGINEER SPECIFICATION GUIDE

Striem Oil Reserve™ oil/sand separator model OS-100 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Separator shall be furnished for above or below grade installation, with field adjustable riser system, snap-in flow control and (2) vent connections. Separator flow rate shall be 100 GPM. Separator oil capacity shall be 144 gallons. Sand capacity shall be 95 gallons. Covers shall provide water/gas-tight seal and have a maximum 16,000 lbs load capacity.

THIRD PARTY STRUCTURAL ANALYSIS

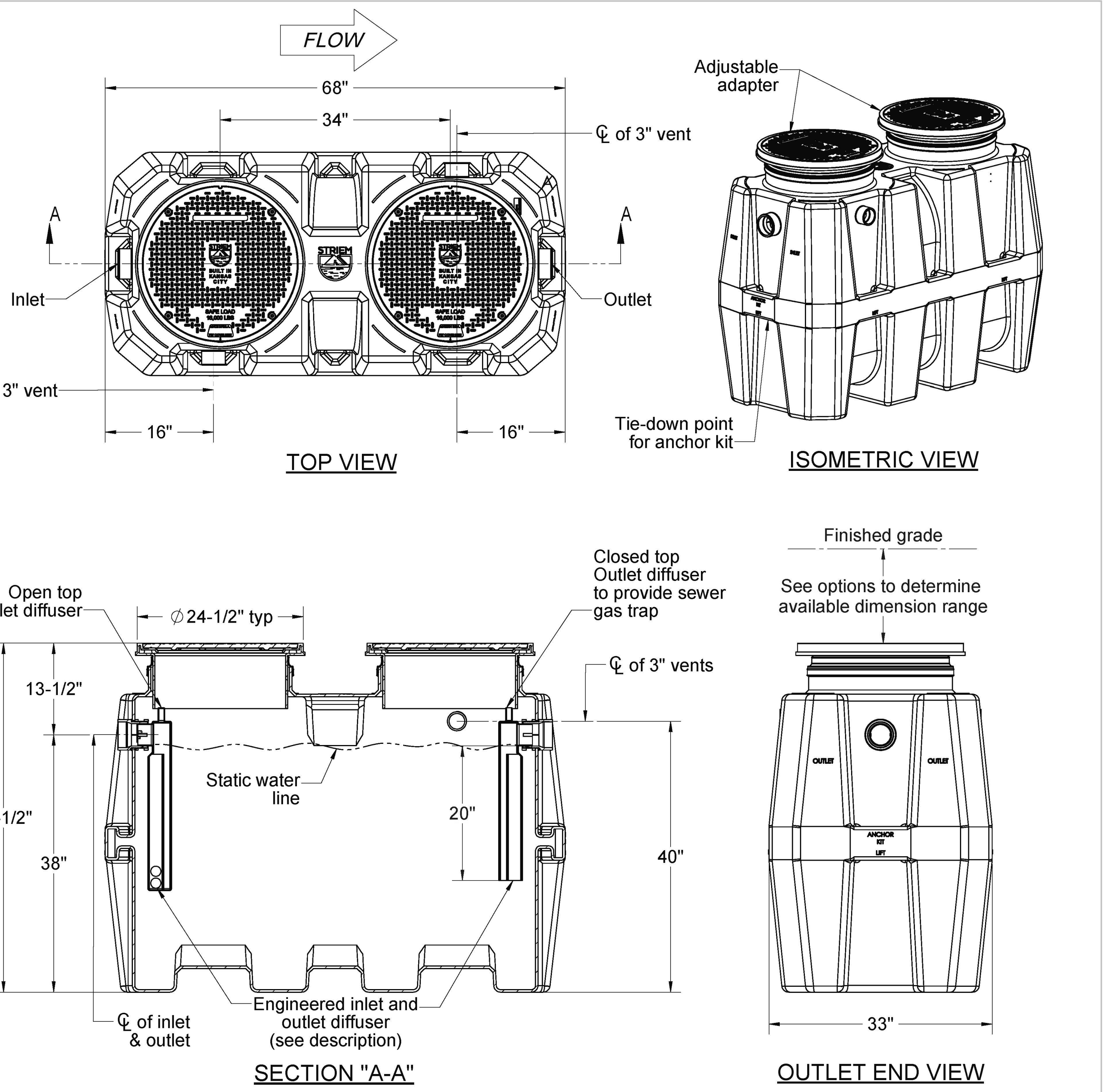
The OS-100 has been structurally analyzed in accordance with the requirements of IBC 2012 and ASCE/SEI 7 for direct burial. The maximum burial depth and backfill material are specified in our installation instructions. The structural design has been reviewed and sealed by a professional engineer registered in the state of California. A sealed structural analysis report is available upon request.

OPTIONS

- 4M** - 4" Male Thread Inlet / Outlet
 - 6P** - 6" Plain End SCH.40 Inlet / Outlet
 - 6M** - 6" Male Thread Inlet / Outlet
 - C24-HP (2)** - H20 Rated Pickable Cast Iron Cover
 - CC24 (2)** - Integral Membrane Clamping Collar Kit
 - CS3** - Clean Sweep Coalescing Media (single)*
 - CS6** - Clean Sweep Coalescing Media (double)*
 - HDK-2** - High Water Anchor Kit
- *Clean Sweep Coalescing Media not compatible with CPRK

RISER OPTIONS

- SR24 (2)** - >5"-24"
- LR24 (2)** - >24"-39"
- SR24 (4)** - >39"-43"
- SR24 (2) + LR24 (2)** - >43"-58"
- LR24 (4)** - >58"-72"
- SR24 (2) + LR24 (4)** - >72"-90"
- CPRK (2)** : >11" - 90"
 - Corrugated Pipe Riser Kit.
 - 18" diameter corrugated pipe by others.
 - Used in substitute of SR/LR riser options
 - See CPRK specification for more detail.



MODEL NUMBER:	OS-100
DESCRIPTION:	100 GPM POLYETHYLENE OIL/SAND SEPARATOR
DWG BY:	MJ
DATE:	12/09/2020
REV:	0
ECO:	

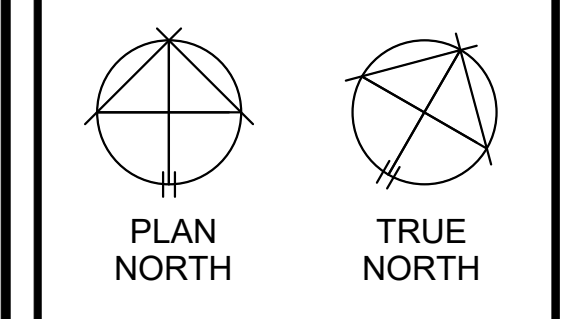
SPECIFICATION SHEET

Striem
 3100 Brinkerhoff
 Kansas City, KS 66115
 Tel: 913-222-1500
 orders@striemco.com
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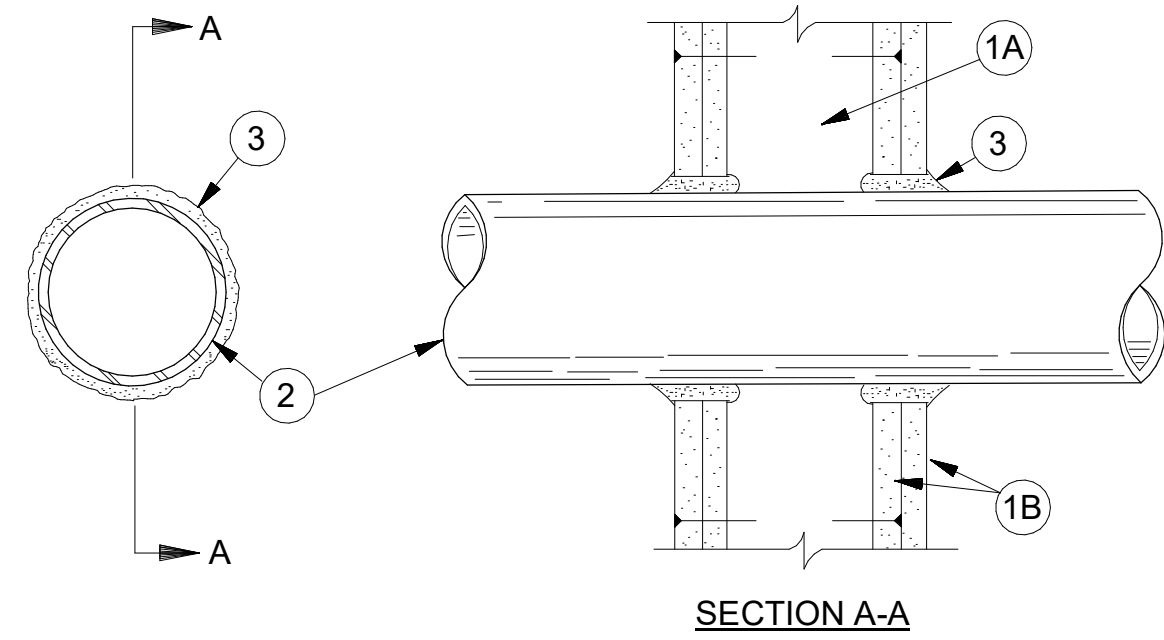
NO.	DATE	DESCRIPTION

DR. BY	Patricia Suite
CK. BY	David Peters
PROJ. NO.	A01122
DATE	03/03/23

PLUMBING - DETAILS

P002

SYSTEM NO. W-L-1001
JUNE 15, 2005
F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
 - B. GYPSUM BOARD* - NOM OR.HN. (13 OR 16 MM) THICK, 4 FT. (122 H 1/2) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM).
2. THROUGH-PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN / (0 MM). (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - A. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - B. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
 - C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
 - D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
 - E. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
 - F. THROUGH PENETRATING PRODUCT* - FLEXIBLE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:
 1. NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC
 2. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OFFLOOR OR WALL ASSEMBLY. GASTITE, DIV OF TITEFLEX
 3. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG INC
3. FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8. , 1-1/4, 1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

Maximum Pipe or Conduit Diameter Inches	F Rating Hours	F Rating Hours
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0
H.3M COMPANY - CP 25WB+ OR FB-3000 WT.

*BEARING THE UL CLASSIFICATION MARK LAST UPDATED ON 2005-06-15

UL LISTED AND CLASSIFIED PRODUCTS UL RECOGNIZED COMPONENTS PRODUCTS CERTIFIED FOR CANADA

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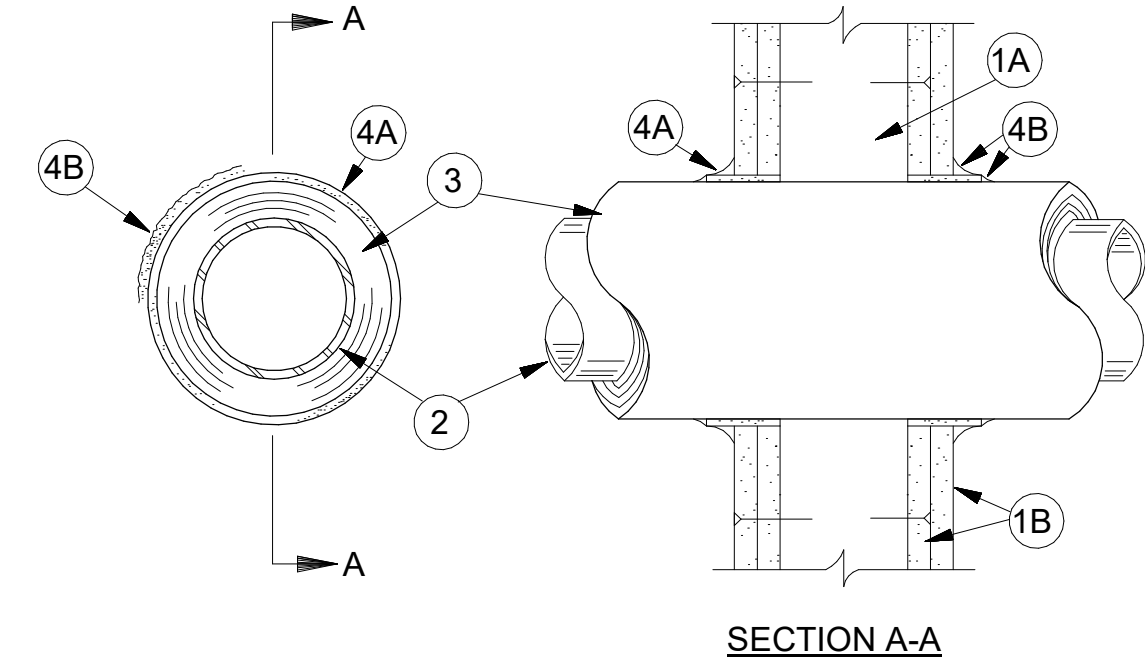
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THROUGH-PENETRATION FIRESTOP SYSTEMS
W-L-1001
No Scale

1

SYSTEM NO. W-L-5001
MAY 19, 2005
F RATINGS - 1 AND 2 HR (SEE ITEM 1)
T RATINGS - 3/4, 1 AND 1 1/2 HR (SEE ITEM 3)
L RATING AT AMBIENT - 2 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
 - B. GYPSUM BOARD* - NOM 5/8 IN. (16 MM) THICK, 4 FT (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 14-1/2 (368MM) IN FOR WOOD STUD WALLS AND 18 IN. (457 MM) FOR STEEL STUD WALLS.
2. THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
 - A. STEEL PIPE - NOM 12 IN. (305 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - B. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - C. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. PIPE COVERING* - NOM 1 OR 2 IN. (25 OR 51 MM) THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF OR 56 KG/M3) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. WHEN NOM 1 IN. (25 MM) THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/4 IN. (6 MM) TO MAX 3/8 IN. (10 MM) WHEN NOM 2 IN. (51 MM) THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM BOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/2 IN. (13 MM) TO MAX 3/4 IN. (19 MM) SEE PIPE AND EQUIPMENT COVERING MATERIALS (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 3/4 HR WHEN NOM 1 IN. (25 MM) THICK PIPE COVERING IS USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 1 HR AND 1-1/2 HR WHEN NOM 2 IN. (52 MM) THICK PIPE COVERING IS USED WITH 1 HR AND 2 HR FIRE RATED WALLS, RESPECTIVELY.
4. FIRESTOP SYSTEM - INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
 - A. FILL, VOID OR CAVITY MATERIALS* - WRAP STRIP - NOM 1/4 IN. (6 MM) THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. (51 MM) WIDE STRIPS, NOM 2 IN. (51 MM) WIDE STRIP TIGHTLY WRAPPED AROUND PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROX 1-1/4 IN. (32 MM) SUCH THAT APPROX 3/4 IN. (19 MM) OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM 1 IN. (25 MM) THICK PIPE COVERING IS USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM 2 IN. (51 MM) THICK PIPE COVERING IS USED.
3M COMPANY - FS-195+
 - B. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT 15/32 MIN 1/4 IN. (6 MM) DIAM CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYER APPROX 3/4 IN. (19 MM) FROM THE WALL SURFACE.
3M COMPANY - CP 25WB+, IC 15WB+, FIREDAM 150+ CAULK OR FB-3000 WT SEALANT

*BEARING THE UL CLASSIFICATION MARK LAST UPDATED ON 2005-05-19
UL LISTED AND CLASSIFIED PRODUCTS UL RECOGNIZED COMPONENTS PRODUCTS CERTIFIED FOR CANADA

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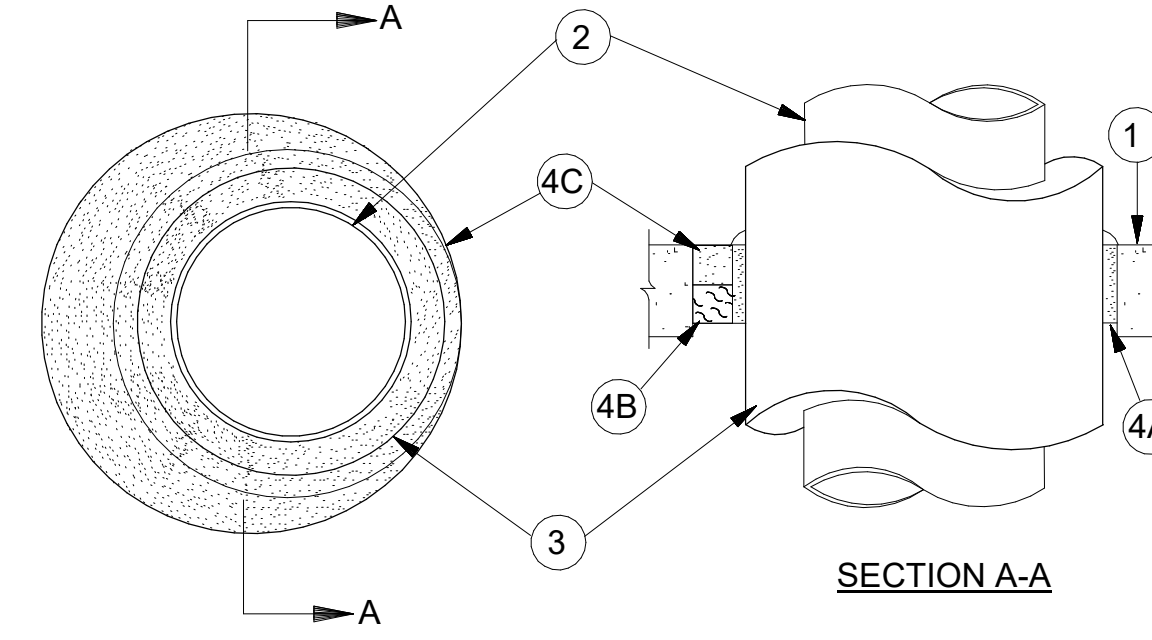
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THROUGH-PENETRATION FIRESTOP SYSTEMS
W-L-5001
No Scale

2

SYSTEM NO. C-AJ-5080
AUGUST 23, 2004
F RATING - 2 HR
T RATING - 0 HR
W RATING - CLASS 1 (SEE ITEM 4)



1. FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 7-1/2 IN. SEE CONCRETE BLOCK (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. THROUGH-PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
 - A. STEEL PIPE - NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - B. COPPER TUBING - NOM 3 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - C. COPPER PIPE - NOM 3 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. PIPE INSULATION - PLASTICS# - NOM 1/2 TO 3/4 IN. THICK ACRYLONITRILE BUTADIENE/POLYVINYL CHLORIDE (AB/PVC) FLEXIBLE FOAM FURNISHED IN THE FORM OF TUBING. AN ANNULAR SPACE OF MIN 1/4 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM. SEE PLASTICS (GMFZZ) CATEGORY IN THE PLASTICS RECOGNIZED COMPONENT DIRECTORY FOR NAMES OF MANUFACTURERS. ANY RECOGNIZED COMPONENT PIPE INSULATION MATERIAL MEETING THE ABOVE SPECIFICATIONS AND HAVING A UL 94 FLAMMABILITY CLASSIFICATION OF 94-5VA MAY BE USED.
4. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
 - A. FILL, VOID OR CAVITY MATERIALS* - WRAP STRIP - NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS. ONE NOM 2 IN. WIDE STRIP TIGHTLY-WRAPPED AROUND PIPE INSULATION WITH THE FOIL SIDE EXPOSED AND SLID INTO THROUGH OPENING SUCH THAT THE TOP EDGE IS FLUSH WITH TOP SURFACE OF FLOOR OR EXTENDING A MAX OF 1 IN. ABOVE THE TOP SURFACE OF FLOOR. WHEN INSULATED PIPE IS INSTALLED IN THROUGH OPENINGS WITH A MAX ANNULAR SPACE BETWEEN THE INSULATED PIPE AND THE PERIPHERY OF THE OPENING OF 1/4 TO 3/8 IN., THE WRAP STRIP LAYER MAY BE SECURED IN PLACE WITH PRESSURE-SENSITIVE FOIL TAPE. IN ALL OTHER SITUATIONS, THE WRAP STRIP LAYER SHALL BE SECURED IN PLACE WITH MIN NO. 18 GAUGE GALV STEEL TIE WIRE. IN WALL ASSEMBLIES, THE WRAP STRIP LAYER IS TO BE INSTALLED ON THE INSULATED PIPE IN THE SAME MANNER USED FOR FLOOR ASSEMBLIES BUT SHALL BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF THE WALL.
3M COMPANY - TYPE FS-195+
 - B. PACKING MATERIAL - MIN 1 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION TIGHTLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
 - C. FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 1 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL ASSEMBLY. A MIN 1/4 IN. DIAM BEAD OF CAULK SHALL BE APPLIED TO EDGE OF WRAP STRIP ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL ASSEMBLY.
3M COMPANY - CP 25WB+ OR FB-3000 WT(NOTE - W RATING APPLIES ONLY WHEN FB-3000 WT IS USED.)
*BEARING THE UL CLASSIFICATION MARKING
#BEARING THE UL RECOGNITION MARKING LAST UPDATED ON 2004-08-23
UL LISTED AND CLASSIFIED PRODUCTS UL RECOGNIZED COMPONENTS PRODUCTS CERTIFIED FOR CANADA

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THROUGH-PENETRATION FIRESTOP SYSTEMS
C-AJ-5080
No Scale

3

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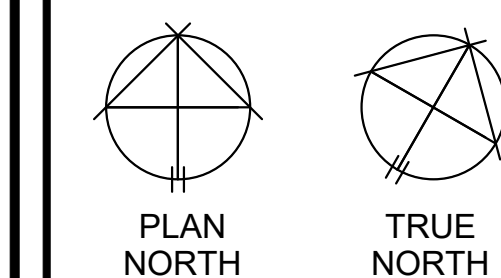
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FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



REVISIONS

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CK. BY	David Peters
PROJ. NO.	A01122
DATE	03/03/23

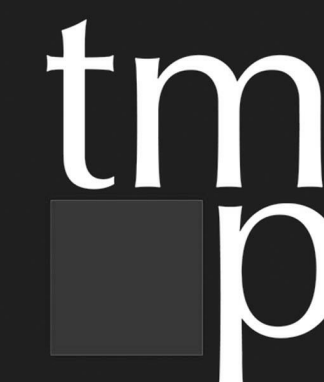
PLUMBING -
PENETRATION
DETAILS

P003



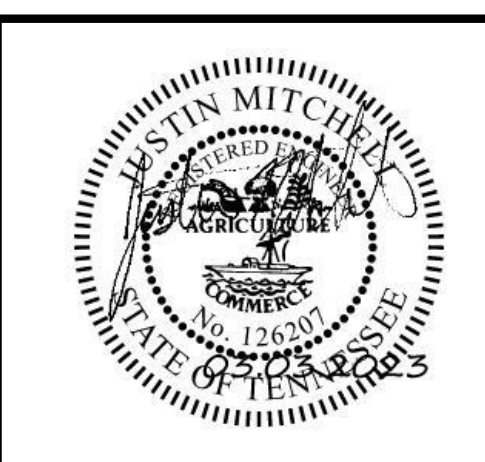
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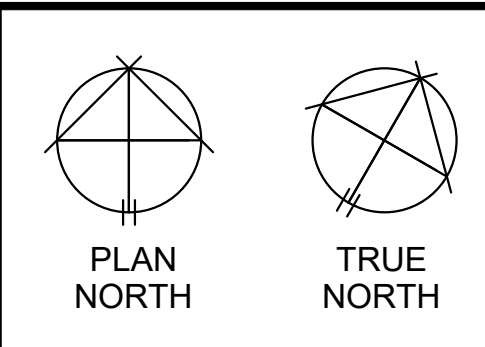


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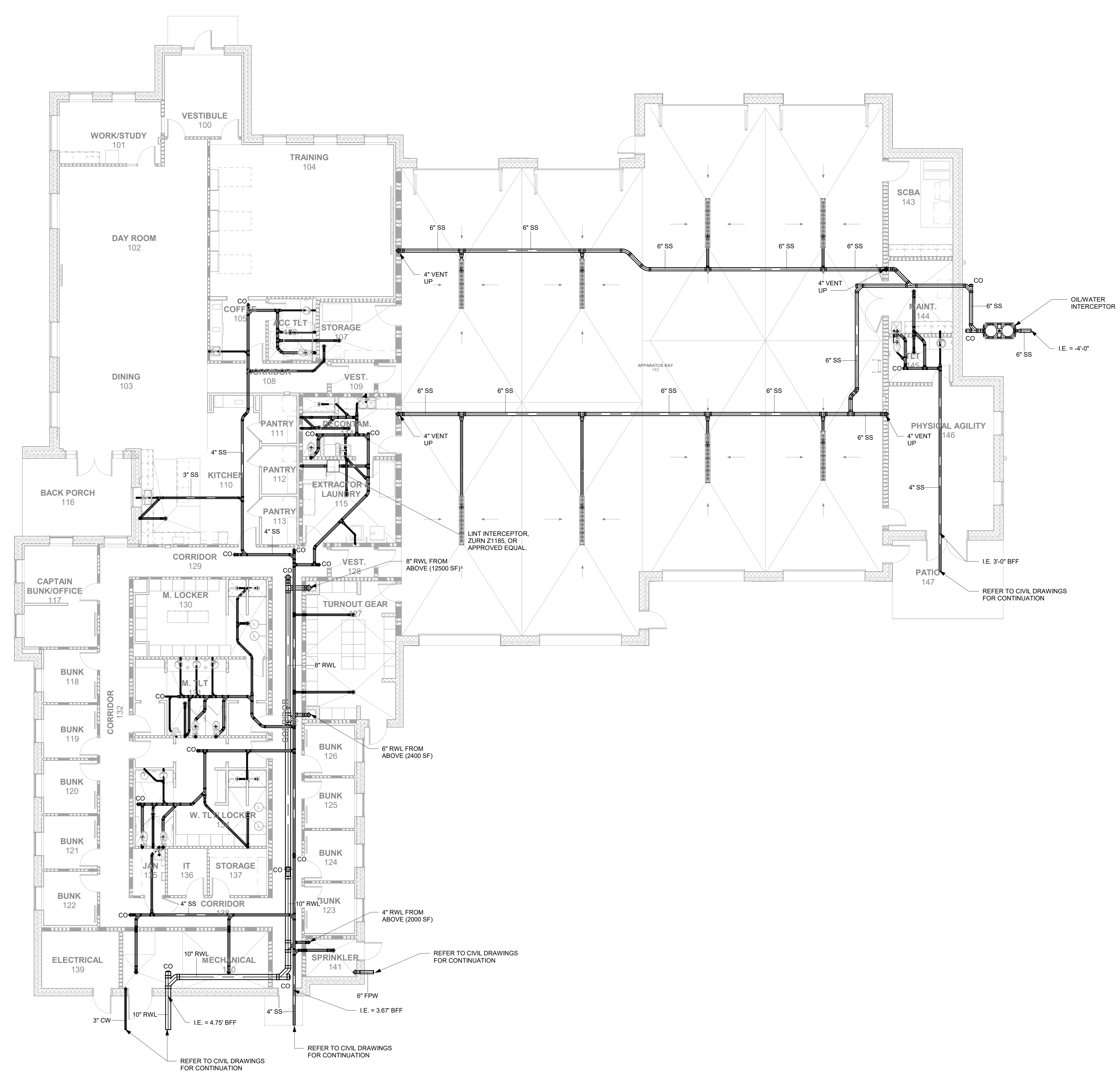
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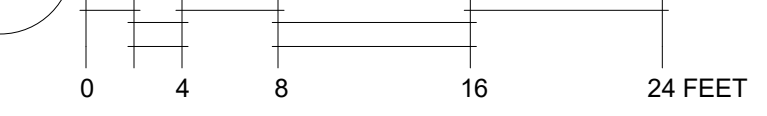
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UNDERGROUND - LEVEL 1 FLOOR PLAN	

P100



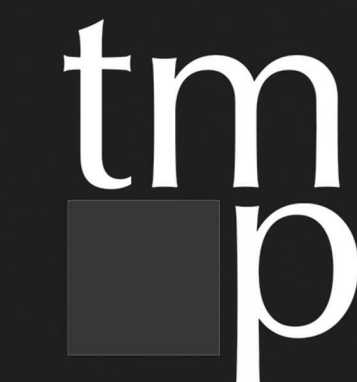
1 UNDERGROUND - LEVEL 1 FLOOR PLAN





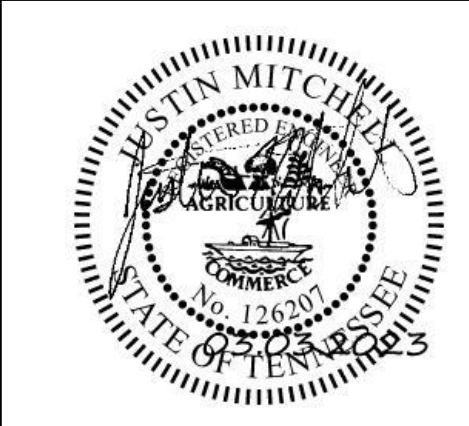
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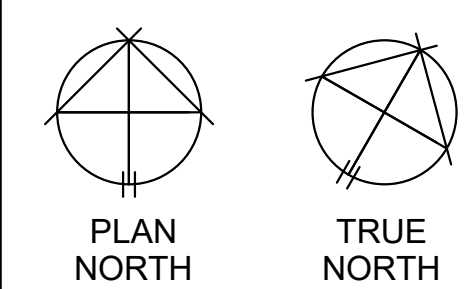


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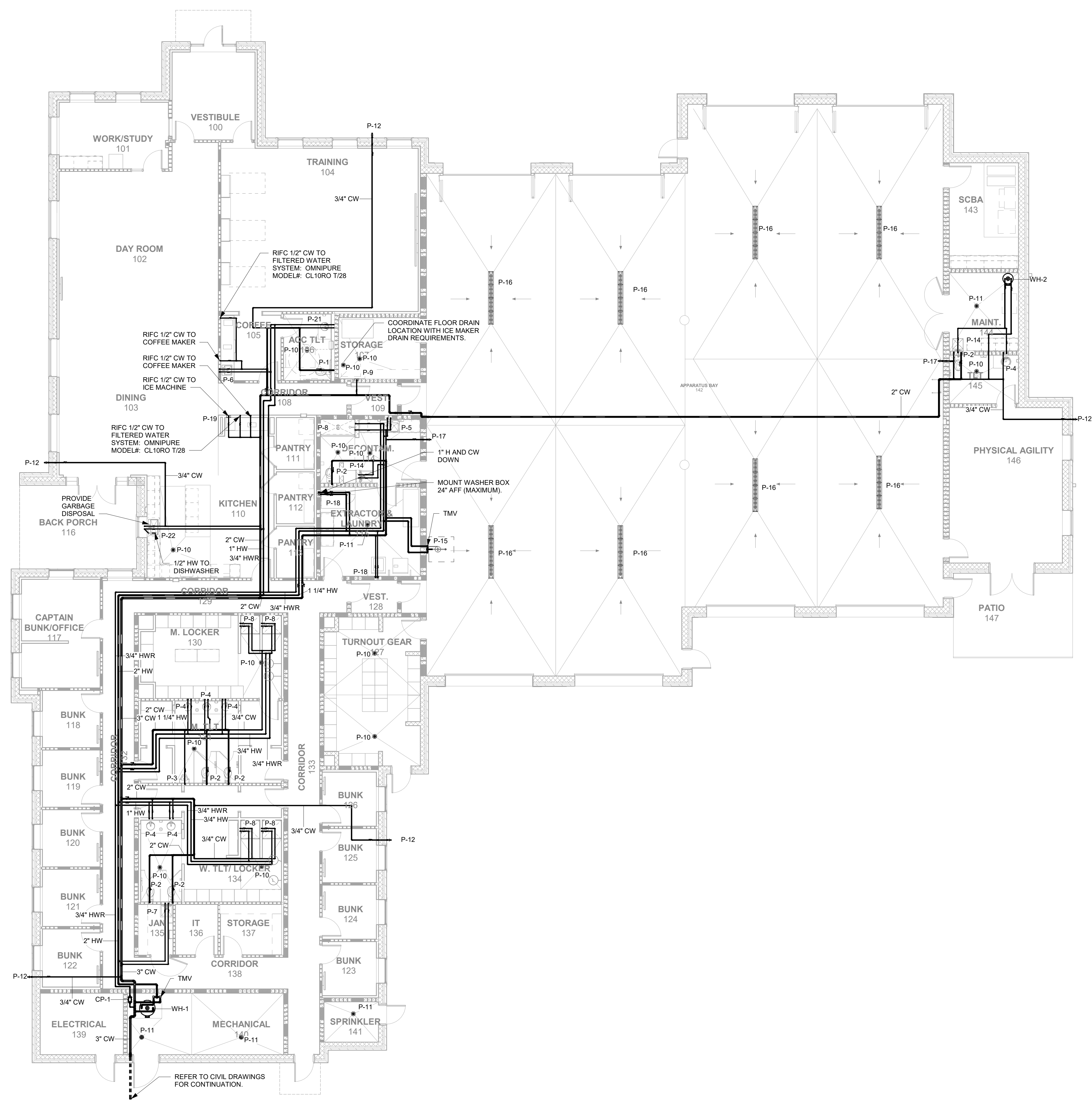
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PLUMBING - LEVEL 1 FLOOR PLAN

P101



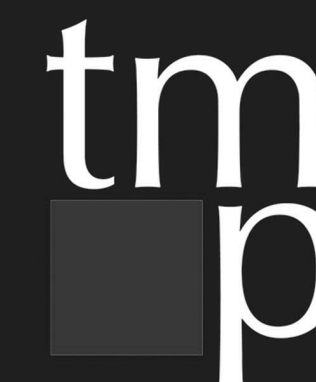
1 PLUMBING - LEVEL 1 FLOOR PLAN

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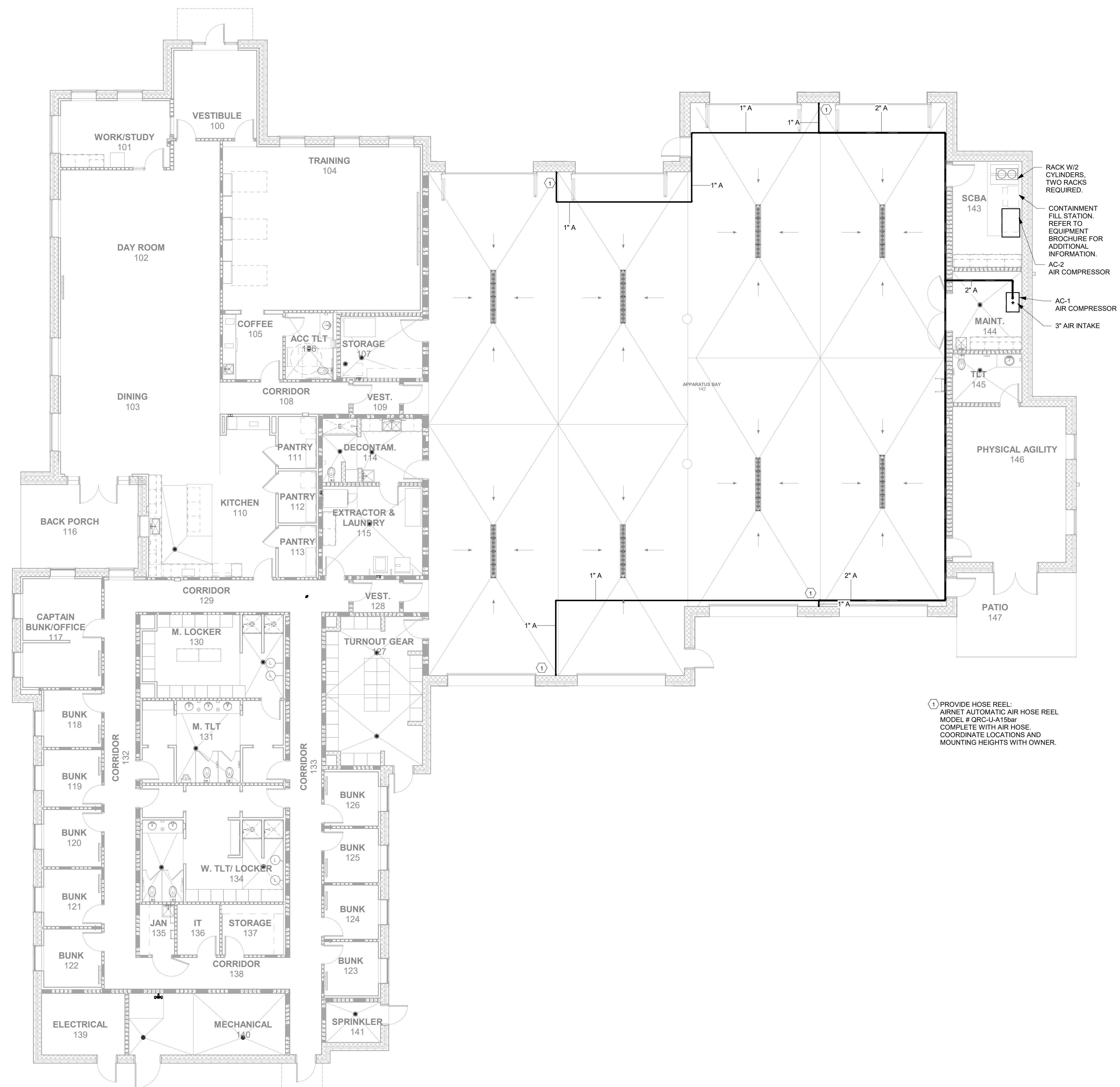
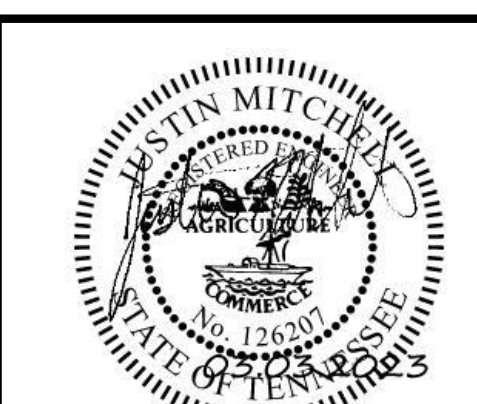
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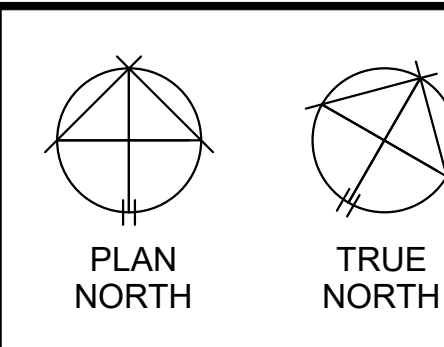
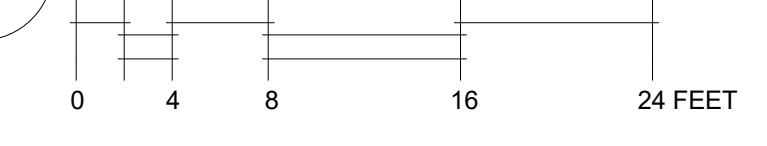
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MODEL # GR-U-A150air
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COORDINATE LOCATIONS AND
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1 GASES - LEVEL 1 FLOOR PLAN



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COMPRESSED AIR

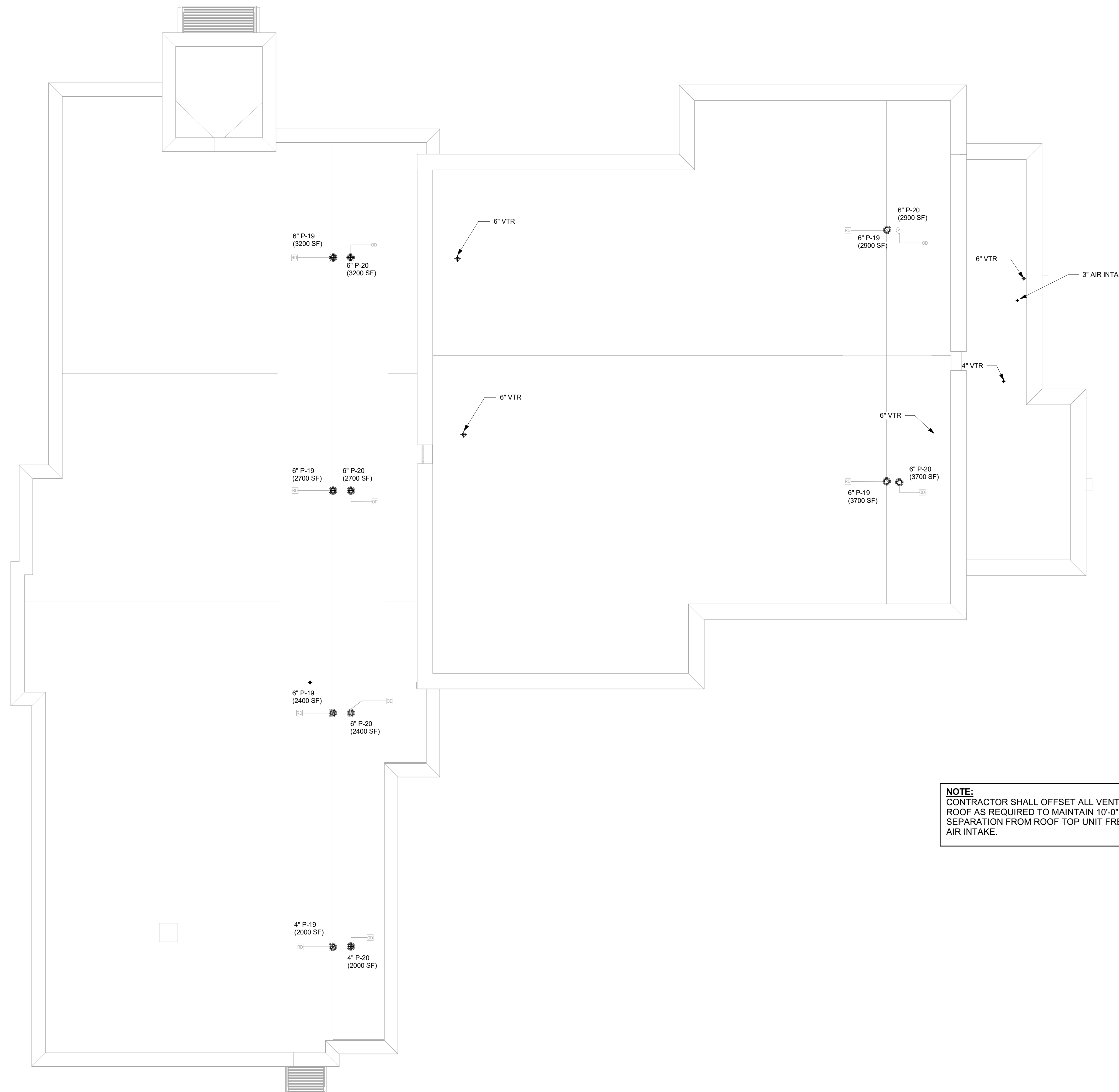


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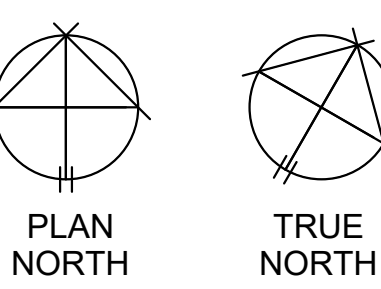
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NOTE:
 CONTRACTOR SHALL OFFSET ALL VENTS THRU
 ROOF AS REQUIRED TO MAINTAIN 10'-0" MIN.
 SEPARATION FROM ROOF TOP UNIT FRESH
 AIR INTAKE.

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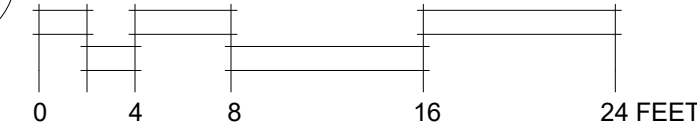
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ROOF PLAN

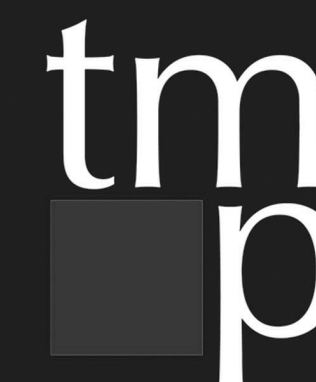
1 PLUMBING - ROOF PLAN





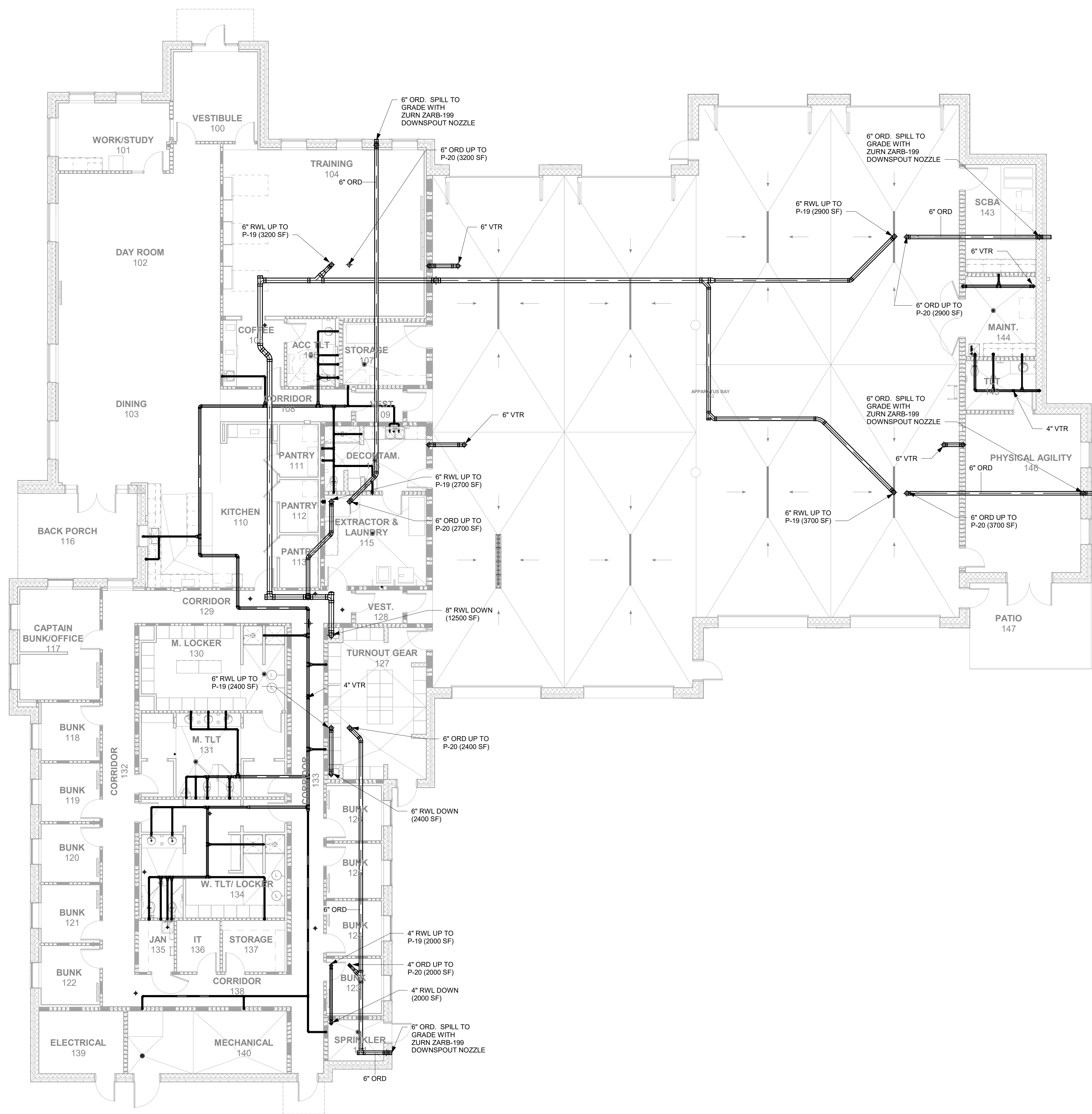
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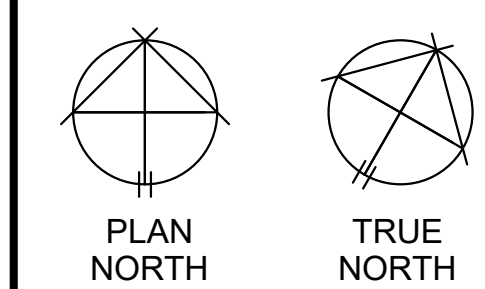
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1 SANITARY - LEVEL 1 FLOOR PLAN
0 4 8 16 24 FEET

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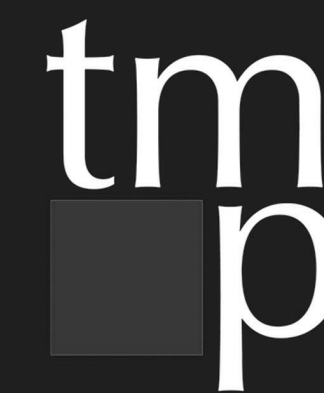
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SANITARY - LEVEL 1 FLOOR PLAN

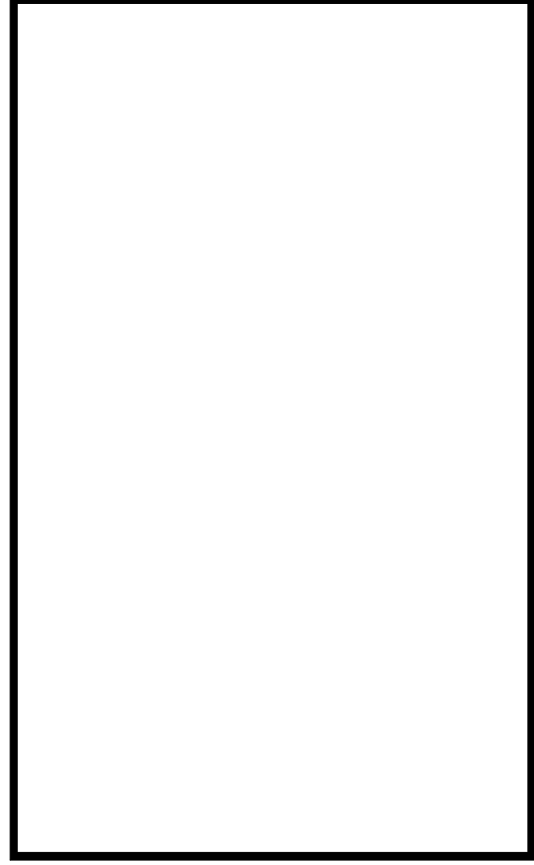


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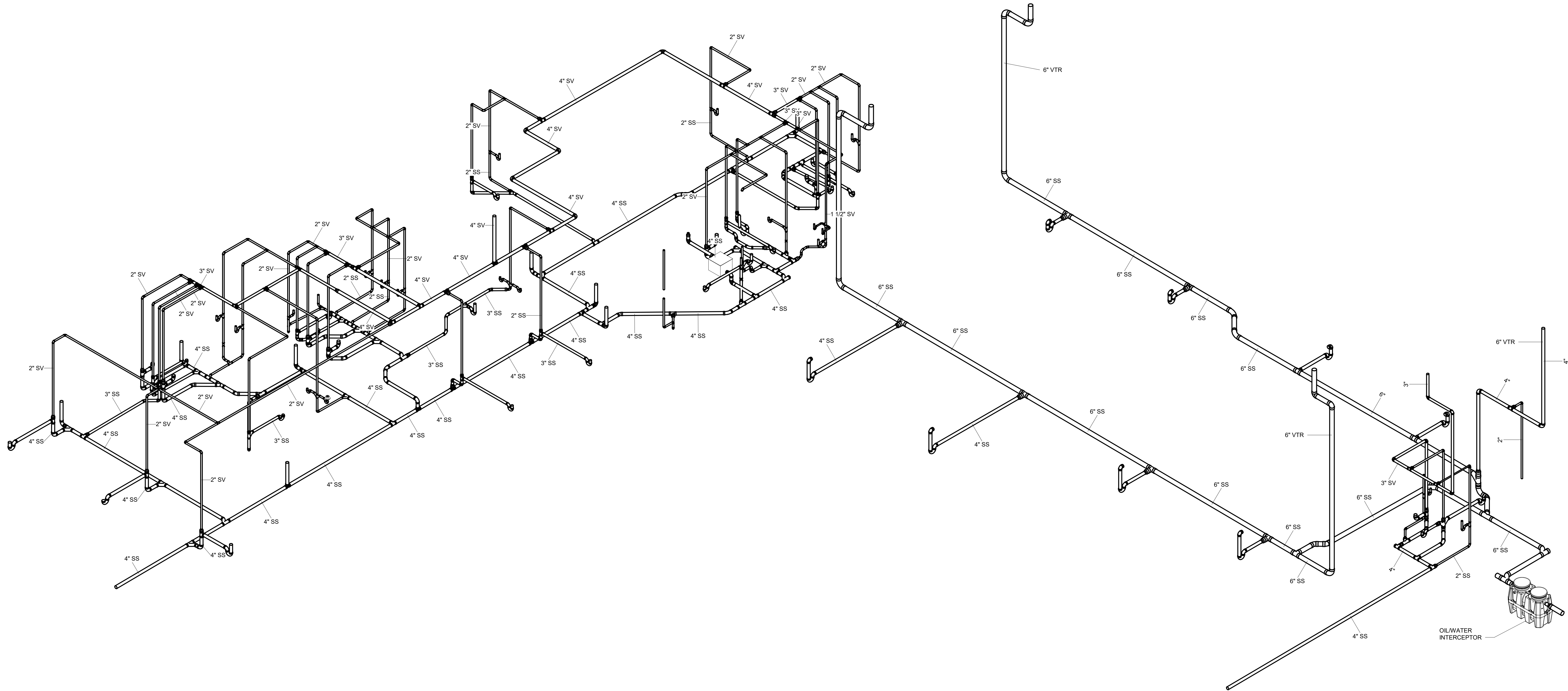
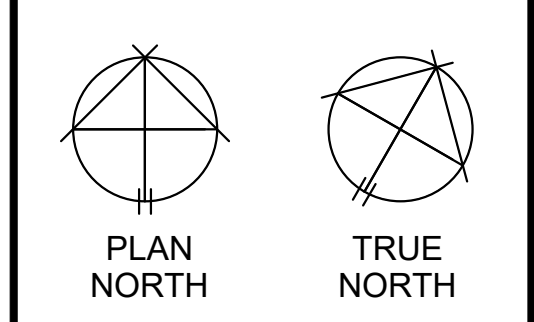


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1 OVERALL SANITARY RISER DIAGRAM

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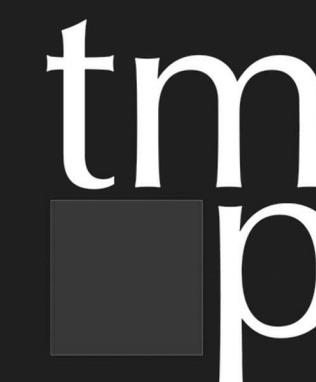
**OVERALL
 SANITARY RISER
 DIAGRAM**

P500



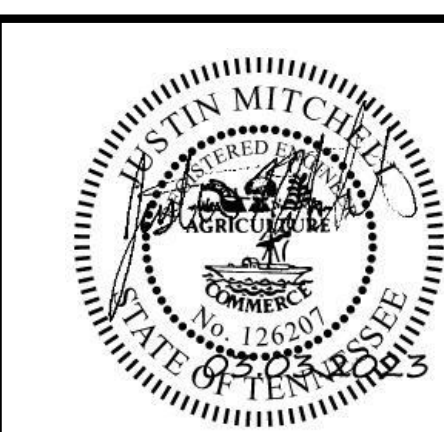
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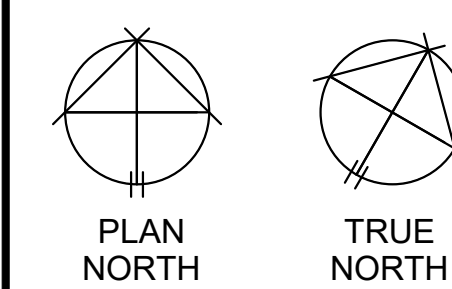


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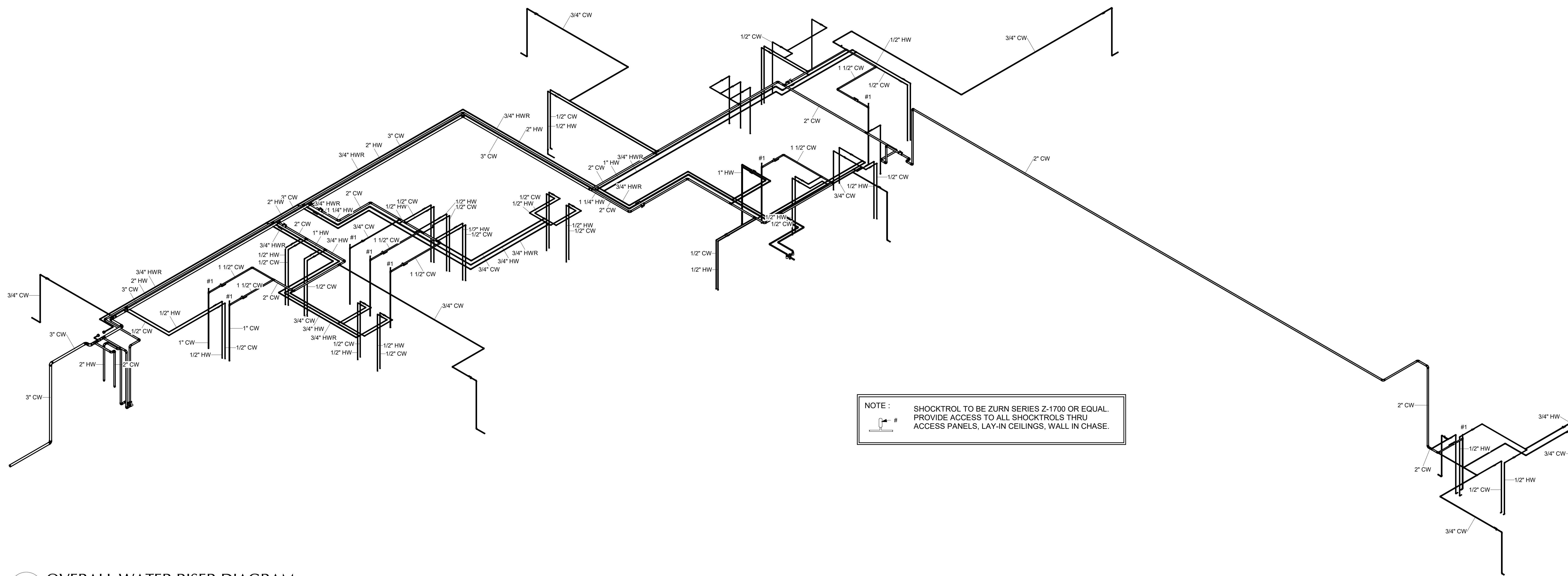
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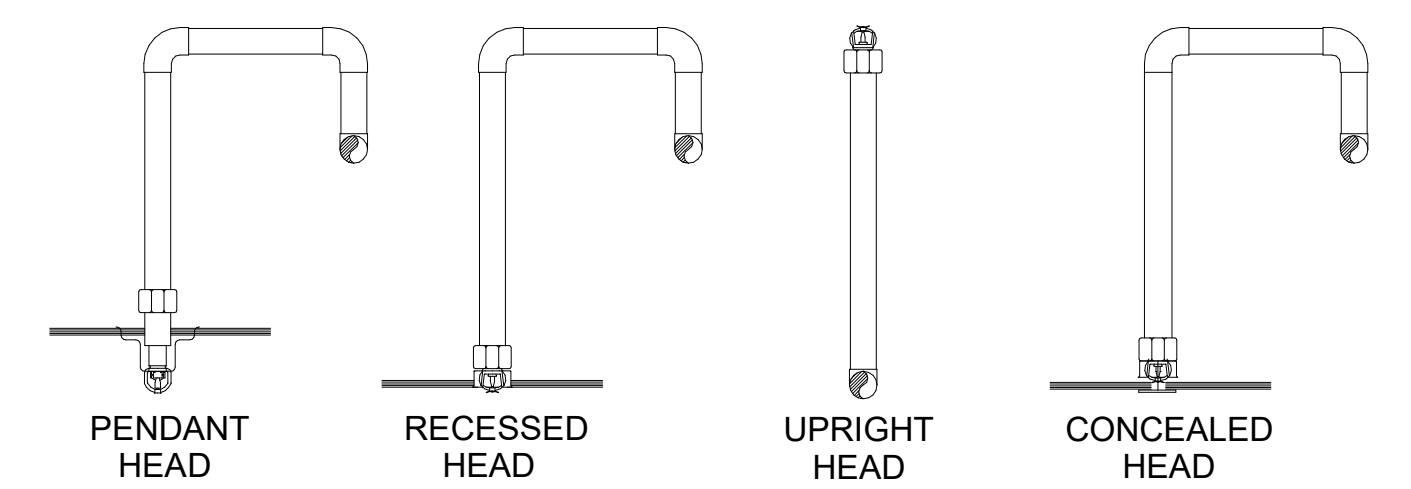
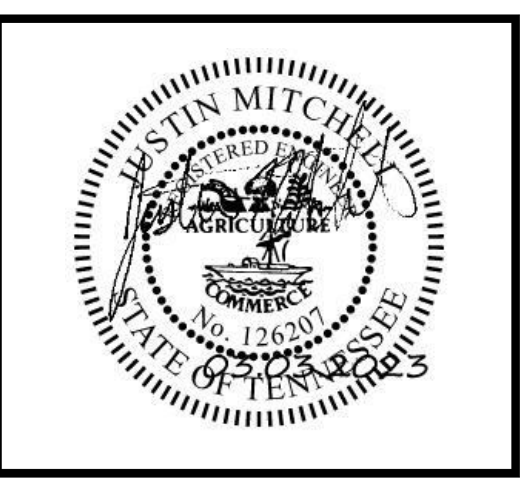
OVERALL WATER RISER DIAGRAM

P501

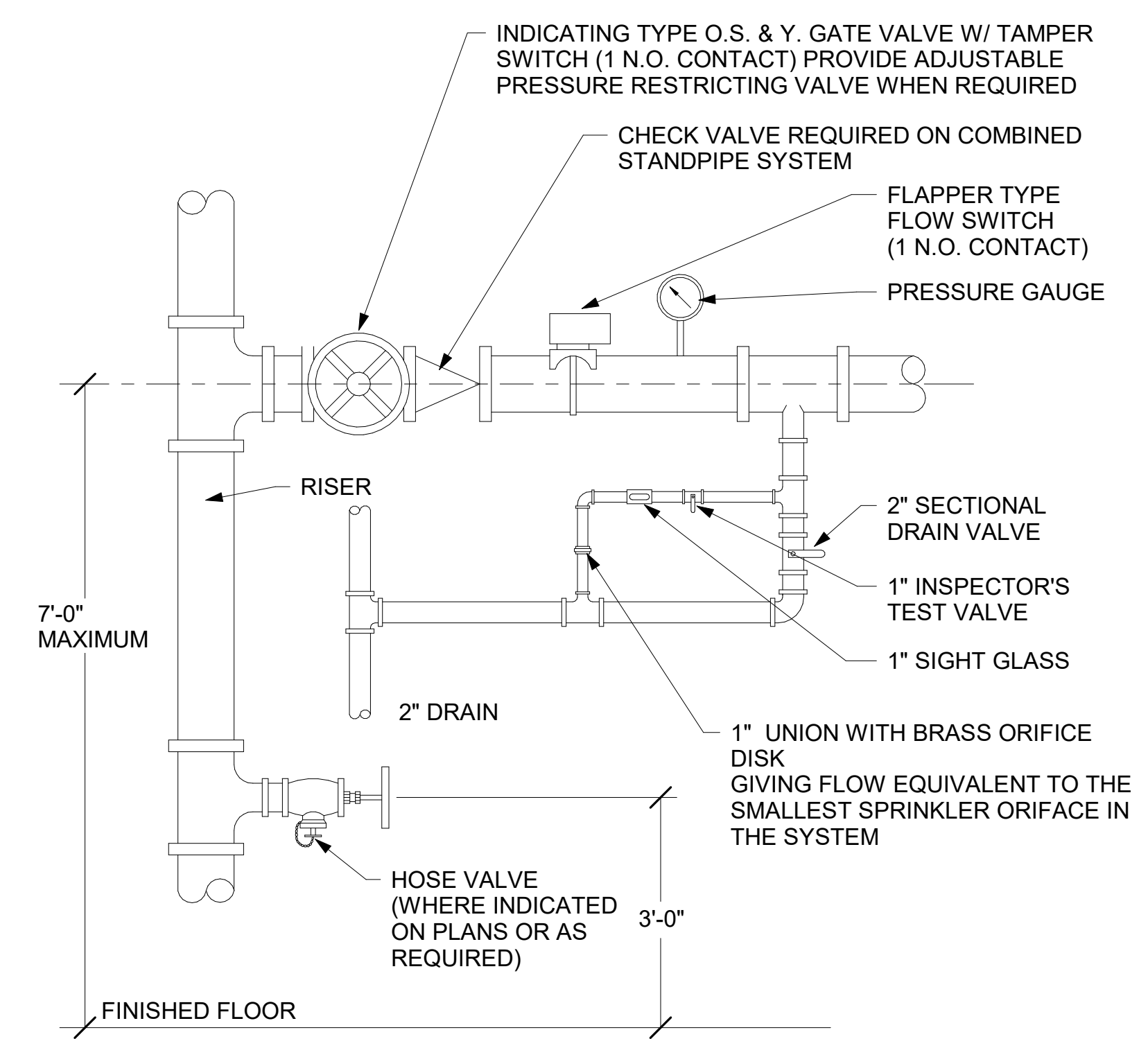


NOTE : SHOCKTROL TO BE ZURN SERIES Z-1700 OR EQUAL.
 PROVIDE ACCESS TO ALL SHOCKTROLS THRU ACCESS PANELS, LAY-IN CEILINGS, WALL IN CHASE.

1 OVERALL WATER RISER DIAGRAM

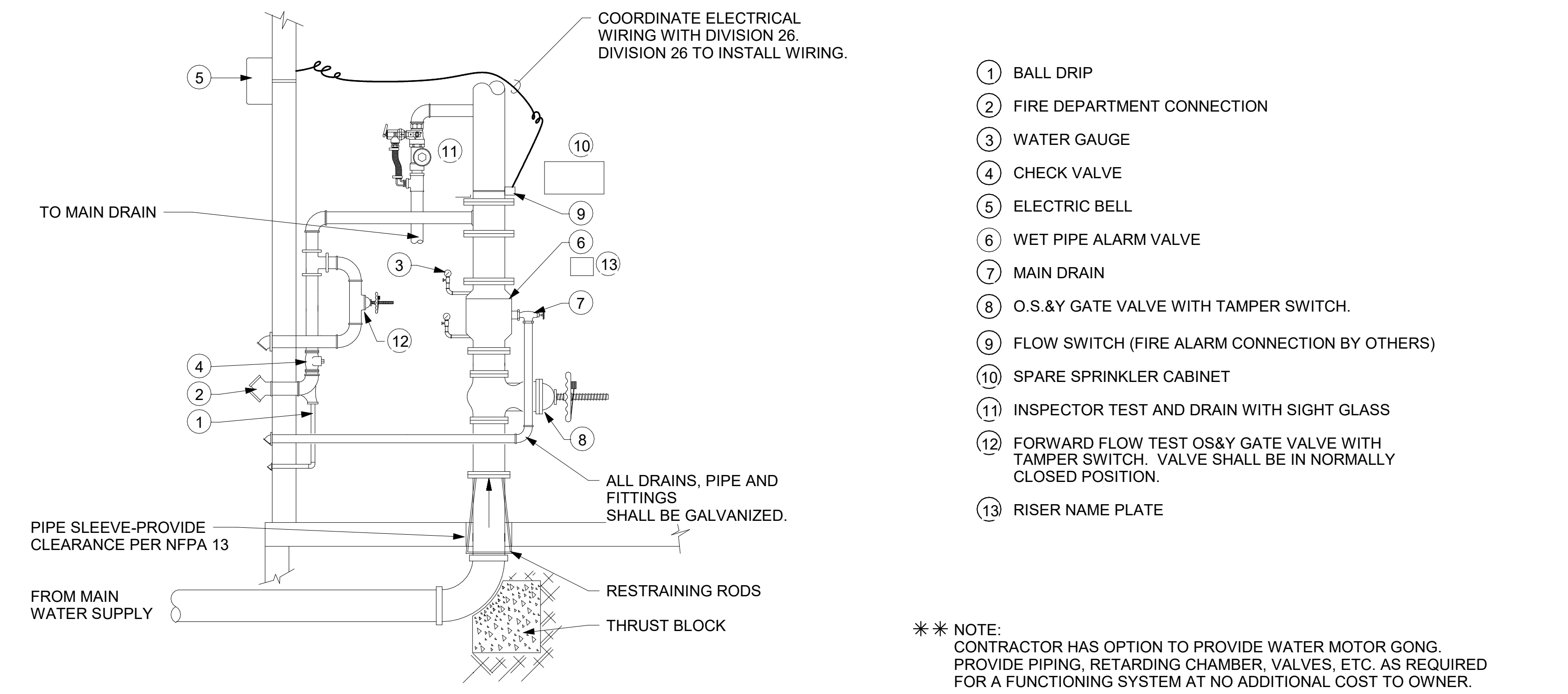


- NOTES:
- WHERE PENDANT STYLE HEADS ARE INDICATED AND AN ACOUSTICAL TILE CEILING IS TO BE INSTALLED, INSTALL PENDANT HEADS CENTERED IN BOTH DIRECTIONS.
 - ARMOVERS WHICH EXCEED 2' - 0" SHALL INCLUDE HANGERS TO STRUCTURE. IF SYSTEM PRESSURE EXCEEDS 100 PSI, ARMOVERS WHICH EXCEED 1' - 0" SHALL INCLUDE HANGERS TO STRUCTURE.
 - CONTRACTOR HAS OPTION OF PROVIDING FLEXIBLE CONNECTIONS PER SPECIFICATION SECTION 21 13 13.

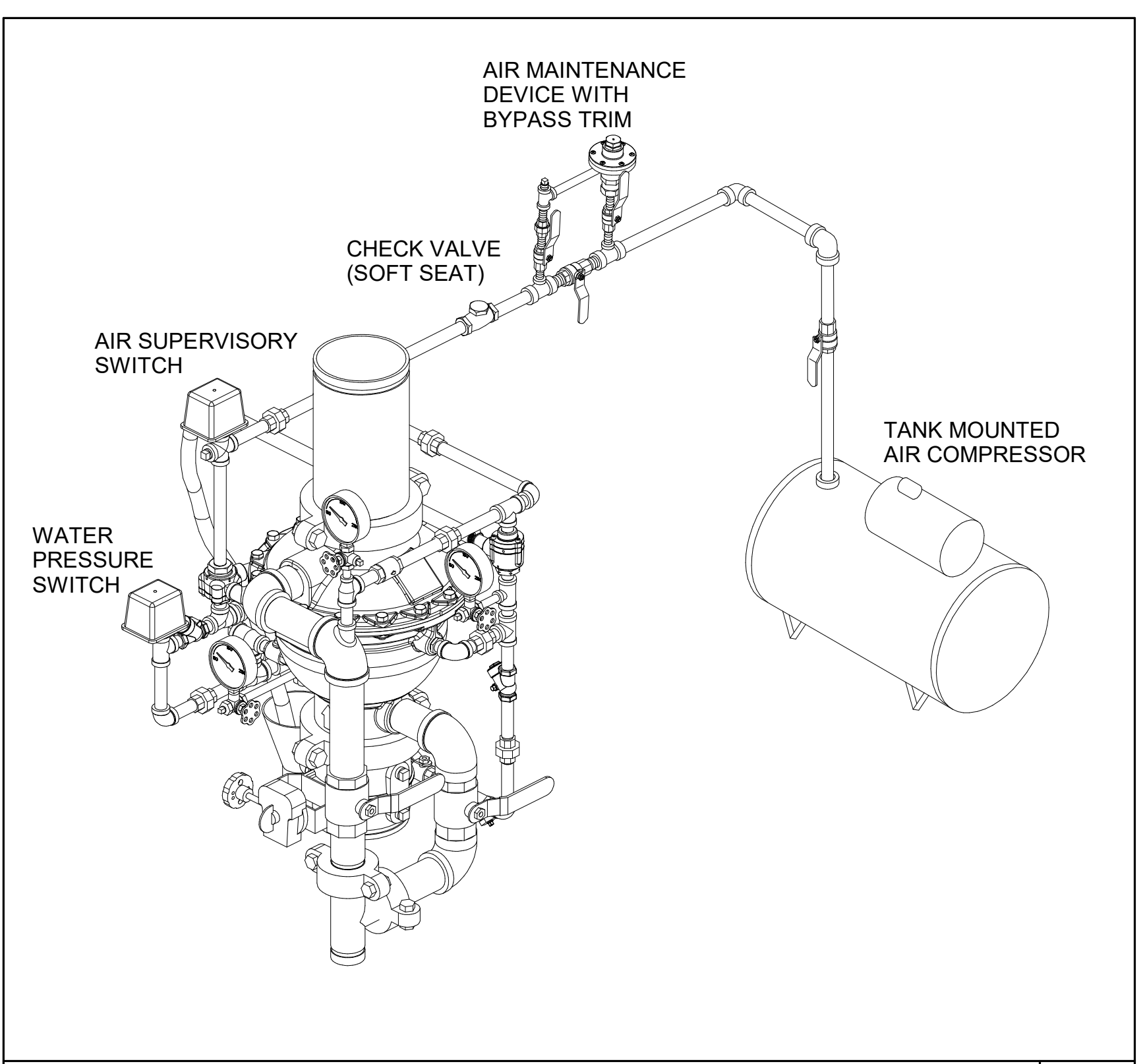


SPRINKLER HEAD DETAILS
 No Scale

1 **AUTOMATIC SPRINKLER SYSTEM CONTROL VALVE AND INSPECTOR'S TEST VALVE AND DRAIN ASSEMBLY DETAIL (CVA)** **2**
 No Scale



3 **WET SPRINKLER RISER DIAGRAM WITH ELECTRIC BELL**
 No Scale



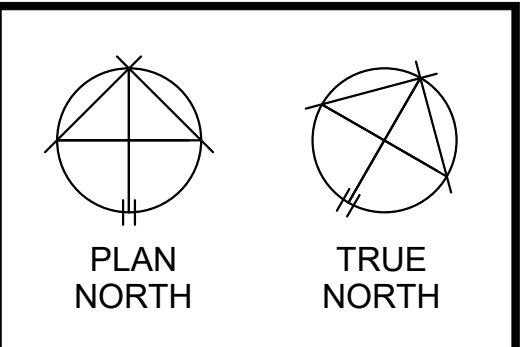
4 **DRY PIPE SYSTEM TANK COMPRESSOR DETAIL**
 No Scale

DRY PIPE AIR COMPRESSOR SCHEDULE

ITEM	MFG. & MODEL NO.	GALLON CAPACITY	ELECTRICAL	HP	LOCATION
CP-1	GENERAL AIR PRODUCTS OL25033LC	250	115/1/60	1/3	

NOTE:
 COORDINATE ALL MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY EMBEDDED CONDUIT AND WALL PENETRATIONS PRIOR TO GROUTING WALLS SOLID.

**TOWN OF NOLENSVILLE
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**FIRE PROTECTION
 - DETAILS**

FP001

THE CONTRACTOR SHALL FURNISH AND COMPLETE A COMPLETE AUTOMATIC SPRINKLER SYSTEM PER NFPA 13 FOR ALL AREAS OF THE BUILDING, INCLUDING CANOPIES, ALL SPRINKLERS SHALL BE INSTALLED ACCORDING TO THEIR LISTING. THE SPRINKLER SYSTEM SHALL BE A WET SYSTEM HYDRAULICALLY CALCULATED USING THE FOLLOWING CRITERIA:

- A. OFFICE AREAS, CORRIDORS, LOBBIES AND LIKE OCCUPANCIES WELL SUBDIVIDED SHALL BE HYDRAULICALLY BALANCED ON A LIGHT HAZARD BASIS TO PRODUCE .10 GPM DENSITY OVER THE MOST REMOTE 1,500 SQ. FT. AND HEAD COVERAGE OF 225 SQ. FT. / HEAD MAXIMUM USING 165° F QUICK RESPONSE HEADS.
- B. ELECTRICAL ROOMS, MECHANICAL ROOMS, EXTRA STORAGE ROOMS AND LIKE OCCUPANCIES SHALL BE HYDRAULICALLY BALANCED ON AN ORDINARY HAZARD GROUP BASIS TO PRODUCE .15 GPM DENSITY OVER THE MOST REMOTE 1,500 SQ. FT. AND HEAD COVERAGE OF 130 SQ. FT. / HEAD MAXIMUM USING 165° F QUICK RESPONSE HEADS.
- C. CALCULATIONS FOR ABOVE DENSITIES TO INCLUDE HOSE STREAMS OF 100 GPM FOR LIGHT HAZARD; 250 GPM FOR ORDINARY HAZARD AND 500 GPM FOR EXTRA HAZARD OCCUPANCIES. CALCULATIONS FOR WATER CURTAIN SPRINKLERS (WHEN PROVIDED) SHALL BE ADDED TO THE MOST DEMANDING HYDRAULIC DESIGN CALCULATIONS.
- D. ALL SPRINKLER HEADS IN AREAS WITH FINISHED (LAY-IN) CEILING SHALL BE CHROME PLATED SEMI-RECESSED TYPE EXCEPT AS NOTED BELOW WITH TEMPERATURE RATING SPACES, CHASIS, ETC., TO COMPLETELY CONCEAL ALL PIPING.
- E. ALL SPRINKLER HEADS IN AREAS WITHOUT FINISHED CEILINGS SHALL BE BRASS UPRIGHT HEADS WITH TEMPERATURE RATINGS AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN EXPOSED AND PAINTED TO MATCH ADJOINING AREAS.
- F. ALL SPRINKLER HEADS IN AREAS WITH FINISHED GYPSUM BOARD CEILING SHALL BE CONCEALED TYPE HEADS WITH TEMPERATURE RATINGS AS CONDITIONS DICTATE. ASSOCIATED PIPING SHALL BE RUN IN FURRED SPACES, CHASIS, ETC., TO COMPLETELY CONCEAL ALL PIPING.
- G. ALL SPRINKLER HEADS IN AREAS WITH FINISHED CEILING WHICH ARE SUBJECT TO FREEZING CONDITIONS (CANOPIES AND OVERHANGS) SHALL BE CHROME PLATED, FREEZE PROOF, CORROSION RESISTANT TYPE WITH TEMPERATURE RATING AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN IN CONDITIONED SPACE AS OUTLINED ABOVE.
- H. ALL AREAS WHERE THE SPRINKLER SYSTEM IS SUBJECT TO FREEZING CONDITIONS TO BE PROVIDED WITH AUTOMATIC SPRINKLER PROTECTION IN THE FORM OF A DRY PIPE SYSTEM UTILIZING UPRIGHT HEADS, PROVIDE NITROGEN GENERATOR, COMPRESSOR PIPING AND NECESSARY APPURTENANCES FOR A COMPLETE SYSTEM.
- I. SPRINKLERS ARE TO BE SUPPLIED FROM AUTOMATIC SPRINKLER RISER ASSEMBLIES WHICH SHALL BE FURNISHED COMPLETE WITH STANDARD TRIM AND THE NECESSARY COMPONENTS (A. FLAPPER TYPE FLOW SWITCH) TO INTERLOCK WITH THE BUILDING FIRE ALARM SYSTEM. FLOW SWITCH BY SPRINKLER CONTRACTOR. WIRING SHALL BE BY ELECTRICAL CONTRACTOR.
- J. POST INDICATOR VALVE SHALL BE FURNISHED COMPLETE WITH THE NECESSARY COMPONENTS TO PROVIDE AN AUDIBLE SUPERVISORY SIGNAL AT THE FIRE ALARM PANEL. THE EVENT THE VALVE IS CLOSED, WIRING SHALL BE BY ELECTRICAL CONTRACTOR.
- K. THE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF PIPING AND HEADS WITH LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PLUMBING LINES, ETC., AND MAKE MINOR ADJUSTMENTS IN THE SPRINKLER LAYOUT WHERE REQUIRED OR DEEMED NECESSARY BY THE ARCHITECT.
- L. ALL SPRINKLER HEADS SHALL BE LOCATED SYMMETRICALLY IN ALL AREAS AND CENTERED BOTH DIRECTIONS IN CEILING TILES.
- M. SPRINKLER CONTRACTOR SHALL INSTALL LOCKS ON ALL EXTERIOR SPRINKLER VALVES. ALL VALVES SHALL BE FURNISHED WITH THE NECESSARY COMPONENTS TO PROVIDE AN AUDIBLE SUPERVISORY SIGNAL AT THE FIRE ALARM PANEL IN THE EVENT THE VALVE IS CLOSED. WIRING TO BE BY THE ELECTRICAL CONTRACTOR.
- N. FIRE PROTECTION SYSTEM TO CONFORM TO ALL REQUIREMENTS OF NFPA 10, 13 AND 25, ALL LOCAL, COUNTY AND STATE REGULATIONS, AS WELL AS INSURANCE UNDERWRITER.
- O. SPRINKLERS ARE TO BE SUPPLIED FROM FIRE STANDPIPES AND HORIZONTAL FIRE MAINS IN THE VARIOUS BUILDING FIRE ZONES. AUTOMATIC SPRINKLER CONNECTIONS FOR THE VARIOUS BUILDING FIRE ZONES SHALL BE MADE AT A STANDPIPE. CONTRACTOR'S OPTION, PROVIDED SAID CONNECTIONS ARE DIRECTLY ACCESSIBLE FROM BUILDING FIRE ZONE SERVED. COORDINATE WITH ELECTRICAL CONTRACTOR FOR WIRING OF THE VARIOUS ZONE TAMPER AND FLOW SWITCHES.
- P. THE SPRINKLER CONTRACTOR SHALL INSPECT, TEST, AND MODIFY EXISTING SPRINKLER SYSTEM AS NEEDED TO COMPLY WITH NFPA AND LOCAL CODES. CONTRACTOR SHALL PROVIDE A LETTER OF ACCEPTANCE FOR THE EXISTING BUILDING.
- Q. ALL SPRINKLER PIPING FROM "POINT OF SERVICE" INCLUDING UNDERGROUND USED FOR SPRINKLER OR STANDPIPE SYSTEM SHALL BE INSTALLED BY A REGISTERED SPRINKLER CONTRACTOR. UNDERGROUND WATER MAINS AND HYDRANTS MUST BE INSTALLED AND IN SERVICE PRIOR TO STARTING CONSTRUCTION.
- R. ALL SYSTEM GAUGES AND VALVES MUST BE ACCESSIBLE FOR INSPECTION AND MAINTENANCE.
- S. THE SPRINKLER CONTRACTOR SHALL SUBMIT COMPLETE SPRINKLER SHOP DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY THE SPRINKLER CONTRACTOR WITH A MINIMUM NINE (9) REGISTRATION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. THEY MUST BE SIGNED BY A RESPONSIBLE MANAGING EMPLOYEE AND SUBMITTED BY A REGISTERED FIRE PROTECTION CONTRACTOR.
- T. ALL SPRINKLER CONTROL VALVES SHALL BE ELECTRONICALLY SUPERVISED BY FIRE ALARM PANEL WITH ALARM, TROUBLE, AND SUPERVISORY SIGNALS. WIRING TO BE BY ELECTRICAL CONTRACTOR.
- U. ALL SPRINKLER BRANCH OUTLETS SHALL BE MINIMUM 1".
- V. PIPING MATERIALS:
 1. INTERIOR PIPE -
 - 2" AND SMALLER - SCHEDULE 40 BLACK STEEL
 - 2-1/2" AND LARGER - SCHEDULE 10 BLACK STEEL
 3. INTERIOR PIPE FITTINGS -
 - LESS THAN 6" - DUCTILE IRON - THREADED, FLANGED, GROOVED, OR WELDED
 - 6" OR GREATER - FLANGED OR WELDED
 4. DRAIN PIPING - SCHEDULE 40 GALVANIZED STEEL WITH MATCHING FITTINGS
 5. SEE SPECIFICATION SECTION 2113.13 FOR ADDITIONAL REQUIREMENTS

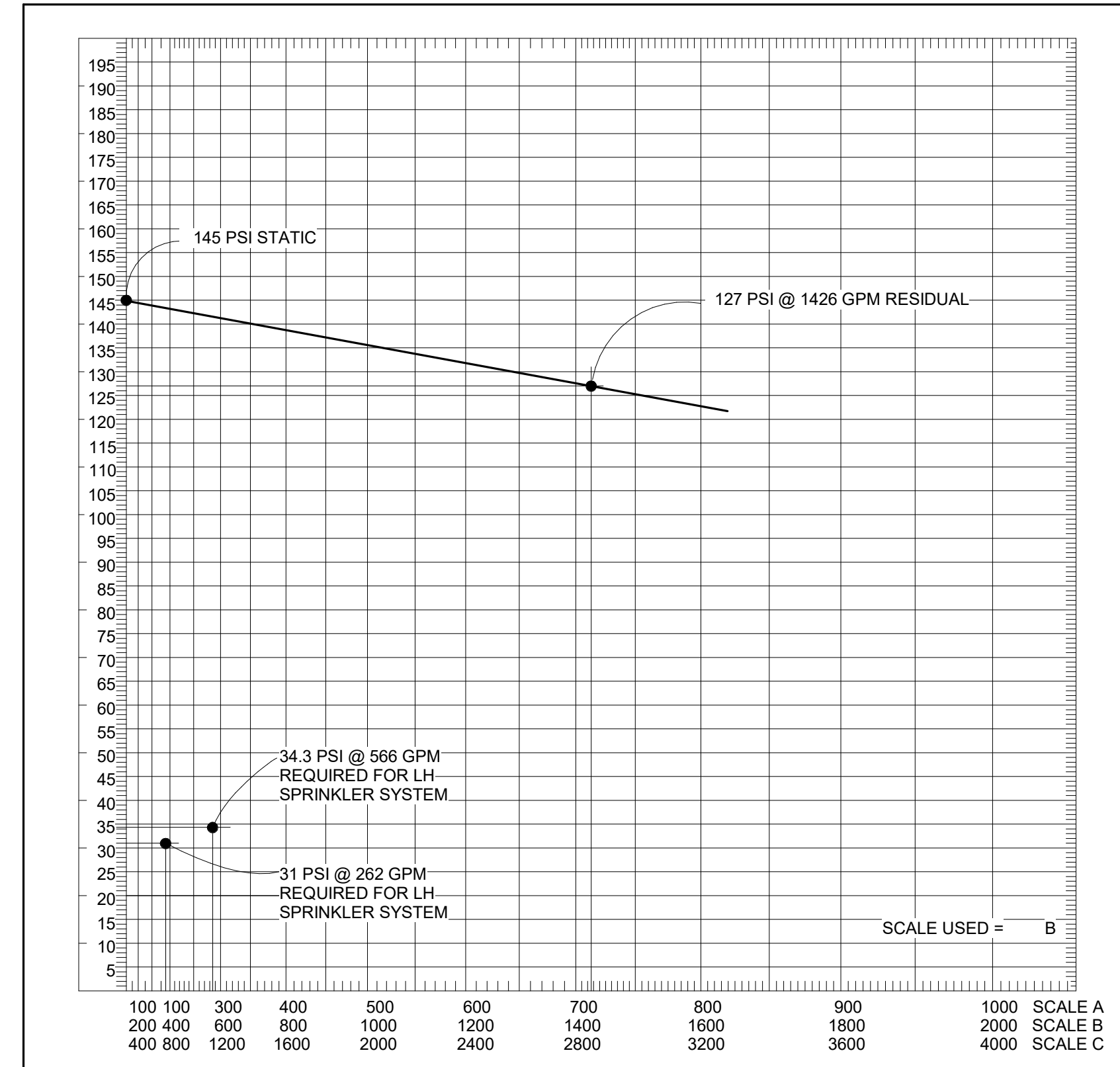
AUTOMATIC SPRINKLER NOTES 1

SPRINKLER DEMAND HYDRAULIC CALCULATIONS (CALCULATIONS BASED ON HAZEN-WILLIAMS FORMULA)			
OWNER:	LOCATION:	FILE:	PROJECT:
NOLLENSVILLE FS	NOLLENSVILLE, TN	ICT File:	220082
CALCULATION DESCRIPTION			
STEP 1 - WATER FLOW REQUIREMENTS			
IFC TABLE B105.1		MINIMUM FLOW AT 20 PSI:	
CONSTRUCTION TYPE:	AREA: 1,500 SF	REQUIRED:	375 GPM
DURATION: 60 minutes	QUANTITY: 23,000 Gallons	AVAILABLE:	4,065 GPM
CALCULATED:	60 minutes at 262 GPM	=	15,720 Gallons
A. SPRINKLERS			
Area (SQ FT)	Density (GPM/SQ FT)	Dry Sys. Factor	Pressure Factor
Wet (NFPA 13 - LIGHT HAZARD)	1.500 x 0.10	1.0	x 1.08 = 162 GPM
Dry	2,000 x 0.00	1.3	x 1.08 = 0 GPM
B. IN-RACK SPRINKLERS			
C. HOSE STREAM ALLOWANCE			
D. TOTAL FLOW REQUIRED (Maximum of Sprinklers) + In-racks + Hose: 262 GPM			
STEP 2 - WATER PRESSURE LOSSES AT YARD PIPING			
E. Elevation of test hydrant (plot height): 612.73 Feet			
F. Elevation of base of riser (FF elevation): 514.00 Feet			
G. Difference (E-F): 1.27 Feet			
H. Pressure Loss at Backflow Preventer: 7 PSI			
I. Friction Loss - Yard piping to riser: 13.6 PSI			
STEP 3 - WATER PRESSURE REQUIRED AT BASE OF RISER			
K. Static head loss (tallest sprinkler AFF): 25.00 Feet			
L. Residual pressure required at most remote sprinkler: 10.8 PSI			
M. Losses at alarm check valve: 5.0 PSI			
N. Number of Sprinklers to be Calculated in Most Remote Area: 162			
O. Friction Loss: base of riser to most remote point: 8.2 PSI			
P. Pressure Required at Base of Riser (K+L+M+N): 31.0 PSI			
STEP 4 - PRESSURE AVAILABLE AT BASE OF RISER			
R. Correction of Water Flow Test Data: Basis: Nolensville FD			
S. Static pressure: 145 PSI			
T. Residual pressure: 127 PSI			
U. Available flow at hydrant at 20 PSI: 4,065 GPM			
V. Residual pressure at main at 1.5 design flow: 143.3 PSI			
W. Residual pressure available at hydrant corrected for design flow: 144.2 PSI			
X. Boost from Fire Pump (at design flow): 0.0 Feet			
Y. Pressure Loss at Pump Inlet (fittings, filters, etc.): 0.0 PSI			
Z. Pressure avail. at pump inlet at 1.5 design Q: N/A			
STEP 5 - TOTAL SYSTEM PRESSURE REQUIRED AT HYDRANT			
W. System pressure required at hydrant (J+P): 44.7 PSI			
STEP 6 - SYSTEM PRESSURE FACTOR OF SAFETY			
X. System surplus pressure (U-P): 99.6 PSI			
Y. Water pressure factor of safety (W/P): 321.1%			
STEP 7 - THEORETICAL FIRE PUMP HORSEPOWER (IF NEW PUMP IS REQUIRED)			
Z. Pump Characteristics			
Flow: N/A	GPM: N/A	Head: N/A	FL H2O: N/A
Theoretical horsepower: N/A	HP: N/A	SAY: 0	HP: N/A
NOTE: THESE CALCULATIONS ARE PRELIMINARY. THEY ARE BASED ON THEORETICAL CONDITIONS. FINAL DESIGN SHALL BE BASED ON DETAILED HYDRAULIC CALCULATIONS AND CURRENT (LESS THAN 6-MONTHS OLD) TWO-HYDRANT FLOW TEST. PRELIMINARY PIPE SIZES SHOWN ABOVE MAY INCREASE IN FINAL DESIGN. INCREASE IN PIPE SIZES SHALL NOT BE JUSTIFICATION FOR INCREASE IN CONTRACTOR'S PRICE.			

PRELIMINARY SPRINKLER HYDRAULICS - LH 2
No Scale

SPRINKLER DEMAND HYDRAULIC CALCULATIONS (CALCULATIONS BASED ON HAZEN-WILLIAMS FORMULA)			
OWNER:	LOCATION:	FILE:	PROJECT:
NOLLENSVILLE FS	NOLLENSVILLE, TN	ICT File:	220082
CALCULATION DESCRIPTION			
STEP 1 - WATER FLOW REQUIREMENTS			
IFC TABLE B105.1		MINIMUM FLOW AT 20 PSI:	
CONSTRUCTION TYPE:	AREA: 6,000 SF	REQUIRED:	375 GPM
DURATION: 60 minutes	QUANTITY: 23,000 Gallons	AVAILABLE:	4,065 GPM
CALCULATED:	60 minutes at 566 GPM	=	33,954 Gallons
A. SPRINKLERS			
Area (SQ FT)	Density (GPM/SQ FT)	Dry Sys. Factor	Pressure Factor
Wet (NFPA 13 - ORDINARY HAZARD)	1,500 x 0.10	1.0	x 1.08 = 162 GPM
Dry	2,000 x 0.00	1.3	x 1.08 = 0 GPM
B. IN-RACK SPRINKLERS			
C. HOSE STREAM ALLOWANCE			
D. TOTAL FLOW REQUIRED (Maximum of Sprinklers) + In-racks + Hose: 566 GPM			
STEP 2 - WATER PRESSURE LOSSES AT YARD PIPING			
E. Elevation of test hydrant (plot height): 612.73 Feet			
F. Elevation of base of riser (FF elevation): 514.00 Feet			
G. Difference (E-F): 1.27 Feet			
H. Pressure Loss at Backflow Preventer: 7 PSI			
I. Friction Loss - Yard piping to riser: 17.1 PSI			
STEP 3 - WATER PRESSURE REQUIRED AT BASE OF RISER			
K. Static head loss (tallest sprinkler AFF): 25.00 Feet			
L. Residual pressure required at most remote sprinkler: 10.8 PSI			
M. Losses at alarm check valve: 5.0 PSI			
N. Number of Sprinklers to be Calculated in Most Remote Area: 316			
O. Friction Loss: base of riser to most remote point: 11.5 PSI			
P. Pressure Required at Base of Riser (K+L+M+N): 34.3 PSI			
STEP 4 - PRESSURE AVAILABLE AT BASE OF RISER			
R. Correction of Water Flow Test Data: Basis: Nolensville FD			
S. Static pressure: 145 PSI			
T. Residual pressure: 127 PSI			
U. Available flow at hydrant at 20 PSI: 4,065 GPM			
V. Residual pressure at main at 1.5 design flow: 138.1 PSI			
W. Residual pressure available at hydrant corrected for design flow: 141.7 PSI			
X. Boost from Fire Pump (at design flow): 0.0 Feet			
Y. Pressure Loss at Pump Inlet (fittings, filters, etc.): 0.0 PSI			
Z. Pressure avail. at pump inlet at 1.5 design Q: N/A			
STEP 5 - TOTAL SYSTEM PRESSURE REQUIRED AT HYDRANT			
W. System pressure required at hydrant (J+P): 51.4 PSI			
STEP 6 - SYSTEM PRESSURE FACTOR OF SAFETY			
X. System surplus pressure (U-P): 90.3 PSI			
Y. Water pressure factor of safety (W/P): 263.3%			
STEP 7 - THEORETICAL FIRE PUMP HORSEPOWER (IF NEW PUMP IS REQUIRED)			
Z. Pump Characteristics			
Flow: N/A	GPM: N/A	Head: N/A	FL H2O: N/A
Theoretical horsepower: N/A	HP: N/A	SAY: 0	HP: N/A
NOTE: THESE CALCULATIONS ARE PRELIMINARY. THEY ARE BASED ON THEORETICAL CONDITIONS. FINAL DESIGN SHALL BE BASED ON DETAILED HYDRAULIC CALCULATIONS AND CURRENT (LESS THAN 6-MONTHS OLD) TWO-HYDRANT FLOW TEST. PRELIMINARY PIPE SIZES SHOWN ABOVE MAY INCREASE IN FINAL DESIGN. INCREASE IN PIPE SIZES SHALL NOT BE JUSTIFICATION FOR INCREASE IN CONTRACTOR'S PRICE.			

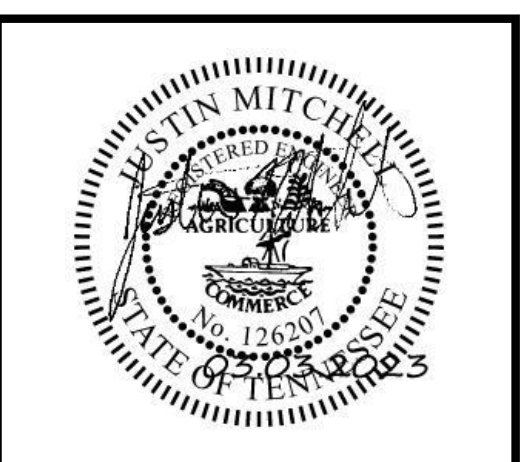
PRELIMINARY SPRINKLER HYDRAULICS - OH1 3
No Scale



WATER FLOW TEST SUMMARY SHEET 4
No Scale

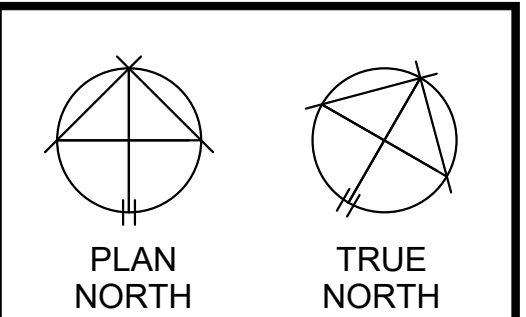


211 Franklin Road
Suite 200
Brentwood, TN 37027-5593
615.377.9773 Office
615.370.4147 Fax
www.TMAPartners.com



DATE	TIME	TESTED BY
11-26		NOLLENSVILLE FD

**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**



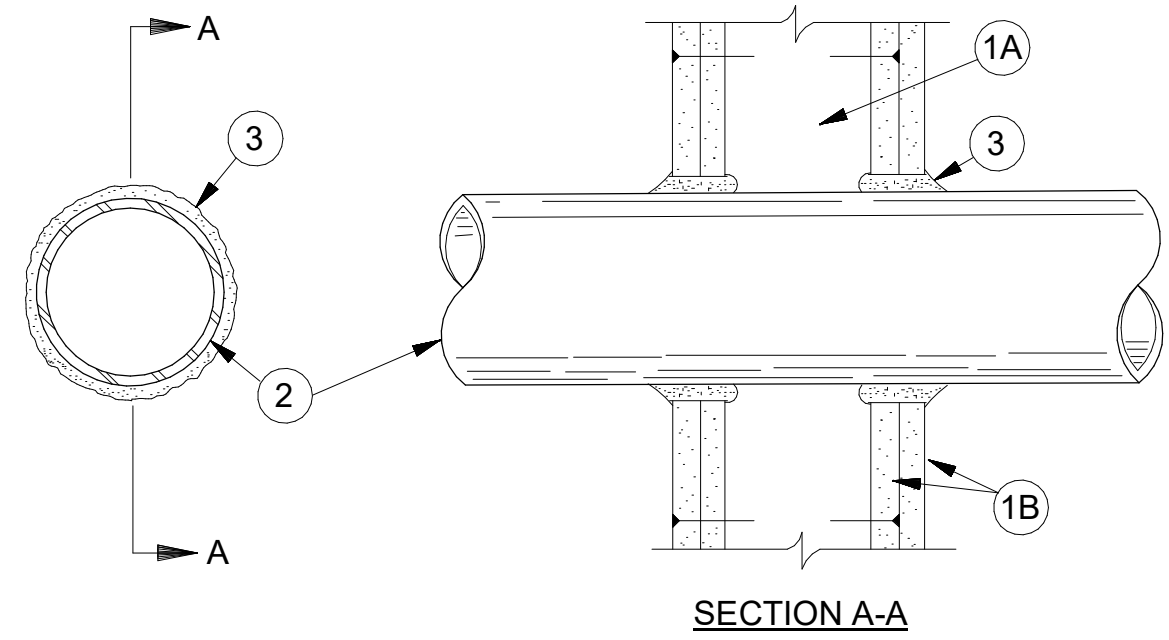
NO.	REVISIONS

DR. BY Patricia Suite
CK. BY David Peters
PROJ. NO. A01122
DATE 03/03/23

**FIRE PROTECTION
- DETAILS**

FP002

SYSTEM NO. W-L-1001
 JUNE 15, 2005
 F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
 T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)
 L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
 L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



- WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
 - GYPSUM BOARD* - NOM 5/8 IN. (16 MM) THICK, 4 FT. (122 H 1/20CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM).
- THROUGH-PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN (0 MM), (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
 - CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
 - COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
 - COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- THROUGH PENETRATING PRODUCT* - FLEXIBLE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:
 - NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC
 - NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OFFLOOR OR WALL ASSEMBLY. GASTITE, DIV OF TITELFLEX
 - NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG INC
- FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8, 1-1/4, 1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

Maximum Pipe or Conduit Diameter Inches	F Rating Hours	F Rating Hours
1 (25)	1 or 2	0*, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0
 H.3M COMPANY - CP 25WB+ OR FB-3000 WT.

*BEARING THE UL CLASSIFICATION MARK LAST UPDATED ON 2005-06-15

UL LISTED AND CLASSIFIED PRODUCTS UL RECOGNIZED COMPONENTS PRODUCTS CERTIFIED FOR CANADA

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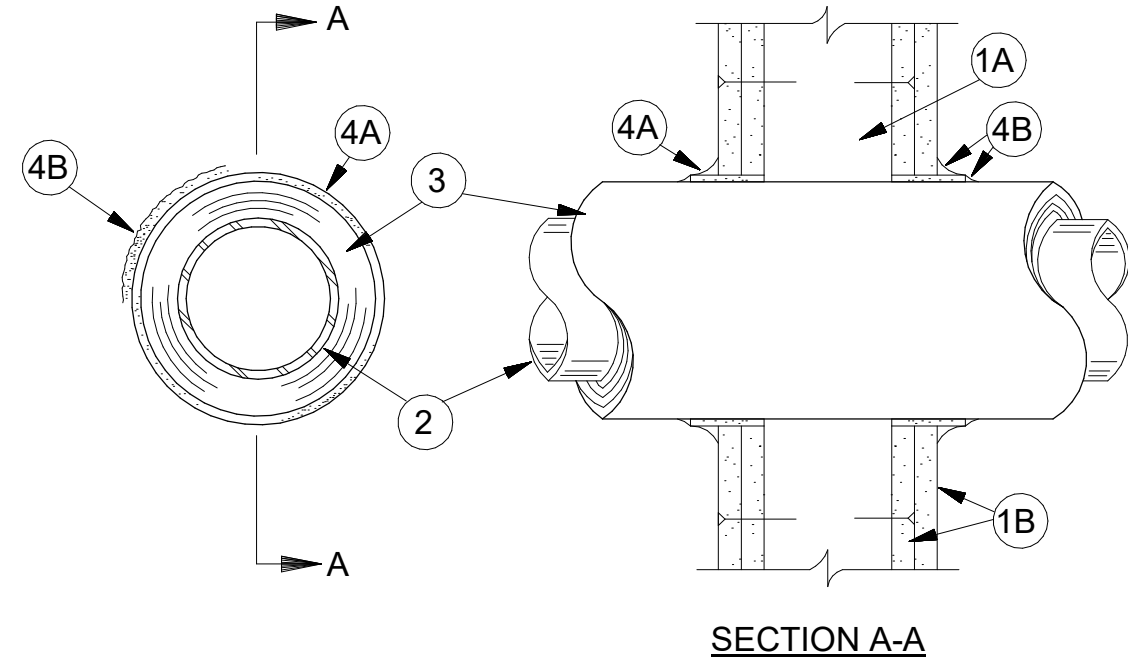
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THROUGH-PENETRATION FIRESTOP SYSTEMS
 W-L-1001
 No Scale

1

SYSTEM NO. W-L-5001
 MAY 19, 2005
 F RATINGS - 1 AND 2 HR (SEE ITEM 1)
 T RATINGS - 3/4, 1 AND 1 1/2 HR (SEE ITEM 3)
 L RATING AT AMBIENT - 2 CFM/SQ FT
 L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



- WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
 - GYPSUM BOARD* - NOM 5/8 IN. (16 MM) THICK, 4 FT (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 14-1/2 (368MM) IN FOR WOOD STUD WALLS AND 18 IN. (457 MM) FOR STEEL STUD WALLS. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS 1 HR WHEN INSTALLED IN A 1 HR FIRE RATED WALL AND 2 HR WHEN INSTALLED IN A 2 HR FIRE RATED WALL.
- THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
 - STEEL PIPE - NOM 12 IN. (305 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- PIPE COVERING* - NOM 1 OR 2 IN. (25 OR 51 MM) THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF OR 56 KG/M3) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. WHEN NOM 1 IN. (25 MM) THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/4 IN. (6 MM) TO MAX 3/8 IN. (10 MM) WHEN NOM 2 IN. (51 MM) THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM BOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/2 IN. (13 MM) TO MAX 3/4 IN. (19 MM) SEE PIPE AND EQUIPMENT COVERING MATERIALS (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 3/4 HR WHEN NOM 1 IN. (25 MM) THICK PIPE COVERING IS USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 1 HR AND 1-1/2 HR WHEN NOM 2 IN. (52 MM) THICK PIPE COVERING IS USED WITH 1 HR AND 2 HR FIRE RATED WALLS, RESPECTIVELY.
- FIRESTOP SYSTEM - INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
 - FILL, VOID OR CAVITY MATERIALS* - WRAP STRIP - NOM 1/4 IN. (6 MM) THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. (51 MM) WIDE STRIPS. NOM 2 IN. (51 MM) WIDE STRIP TIGHTLY WRAPPED AROUND PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROX 1-1/4 IN. (32 MM) SUCH THAT APPROX 3/4 IN. (19 MM) OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM 1 IN. (25 MM) THICK PIPE COVERING IS USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM 2 IN. (51 MM) THICK PIPE COVERING IS USED.
 3M COMPANY - FS-195+
 - FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT 15/32 MIN 1/4 IN. (6 MM) DIAM CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYER APPROX 3/4 IN. (19 MM) FROM THE WALL SURFACE.
 3M COMPANY - CP 25WB+, IC 15WB+, FIREDAM 150+ CAULK OR FB-3000 WT SEALANT
 *BEARING THE UL CLASSIFICATION MARK LAST UPDATED ON 2005-05-19
 UL LISTED AND CLASSIFIED PRODUCTS UL RECOGNIZED COMPONENTS PRODUCTS CERTIFIED FOR CANADA

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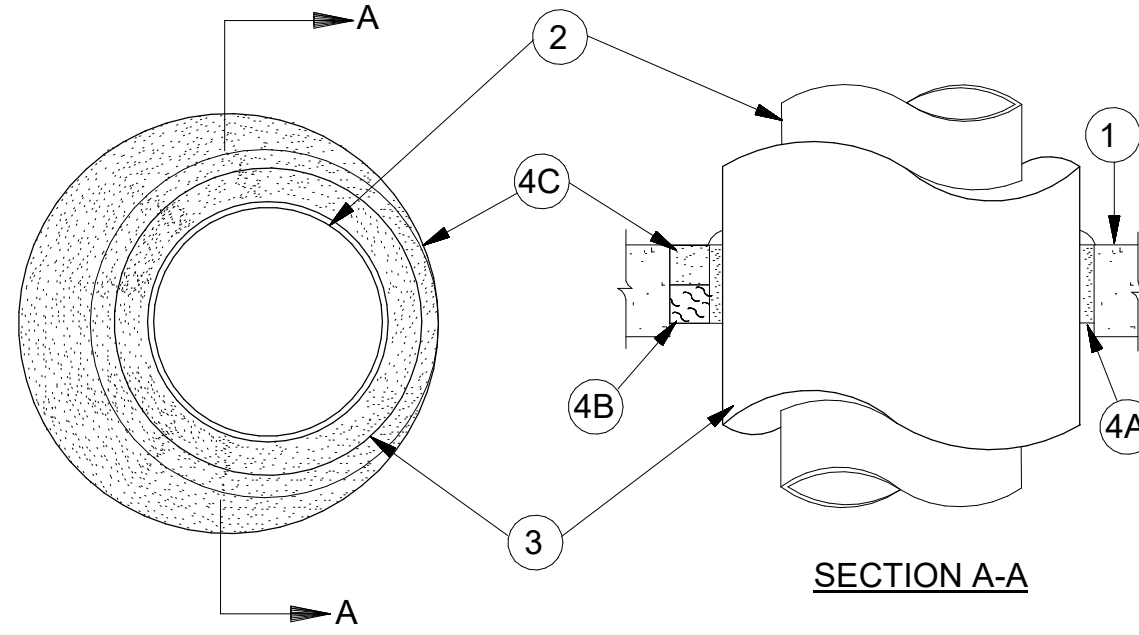
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THROUGH-PENETRATION FIRESTOP SYSTEMS
 W-L-5001
 No Scale

2

SYSTEM NO. C-AJ-5080
 AUGUST 23, 2004
 F RATING - 2 HR
 T RATING - 0 HR
 W RATING - CLASS 1 (SEE ITEM 4)



- FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 7-1/2 IN. SEE CONCRETE BLOCK (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH-PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
 - STEEL PIPE - NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - COPPER TUBING - NOM 3 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - COPPER PIPE - NOM 3 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- PIPE INSULATION - PLASTICS# - NOM 1/2 TO 3/4 IN. THICK ACRYLONITRILE BUTADIENE/POLYVINYL CHLORIDE (AB/PVC) FLEXIBLE FOAM FURNISHED IN THE FORM OF TUBING. AN ANNULAR SPACE OF MIN 1/4 IN. TO MAX 1-1/4 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM. SEE PLASTICS (MIFZ2) CATEGORY IN THE PLASTICS RECOGNIZED COMPONENT DIRECTORY FOR NAMES OF MANUFACTURERS. ANY RECOGNIZED COMPONENT PIPE INSULATION MATERIAL MEETING THE ABOVE SPECIFICATIONS AND HAVING A UL 94 FLAMMABILITY CLASSIFICATION OF 94-5VA MAY BE USED.
- FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
 - FILL, VOID OR CAVITY MATERIALS* - WRAP STRIP - NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS. ONE NOM 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND PIPE INSULATION WITH THE FOIL SIDE EXPOSED AND SLID INTO THROUGH OPENING SUCH THAT THE TOP EDGE IS FLUSH WITH TOP SURFACE OF FLOOR OR EXTENDING A MAX OF 1 IN. ABOVE THE TOP SURFACE OF FLOOR. WHEN INSULATED PIPE IS INSTALLED IN THROUGH OPENINGS WITH A MAX ANNULAR SPACE BETWEEN THE INSULATED PIPE AND THE PERIPHERY OF THE OPENING OF 1/4 TO 3/8 IN., THE WRAP STRIP LAYER MAY BE SECURED IN PLACE WITH PRESSURE-SENSITIVE FOIL TAPE. IN ALL OTHER SITUATIONS, THE WRAP STRIP LAYER SHALL BE SECURED IN PLACE WITH MIN NO. 18 GAUGE GALV STEEL TIE WIRE. IN WALL ASSEMBLIES, THE WRAP STRIP LAYER IS TO BE INSTALLED ON THE INSULATED PIPE IN THE SAME MANNER USED FOR FLOOR ASSEMBLIES BUT SHALL BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF THE WALL.
 3M COMPANY - TYPE FS-195+
 - PACKING MATERIAL - MIN 1 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION TIGHTLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
 - FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 1 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL ASSEMBLY. A MIN 1/4 IN. DIAM BEAD OF CAULK SHALL BE APPLIED TO EDGE OF WRAP STRIP ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL ASSEMBLY.
 3M COMPANY - CP 25WB+ OR FB-3000 WT
 (NOTE - W RATING APPLIES ONLY WHEN FB-3000 WT IS USED.)
 *BEARING THE UL CLASSIFICATION MARKING
 #BEARING THE UL RECOGNITION MARKING LAST UPDATED ON 2004-08-23

UL LISTED AND CLASSIFIED PRODUCTS UL RECOGNIZED COMPONENTS PRODUCTS CERTIFIED FOR CANADA

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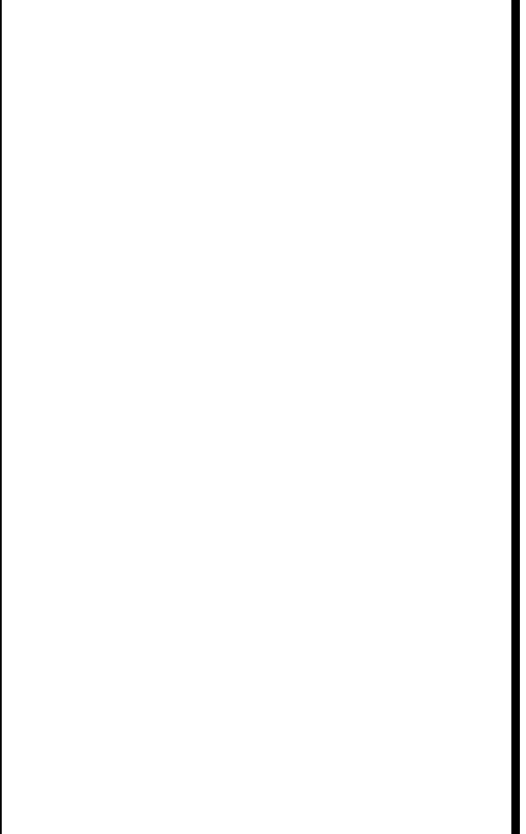
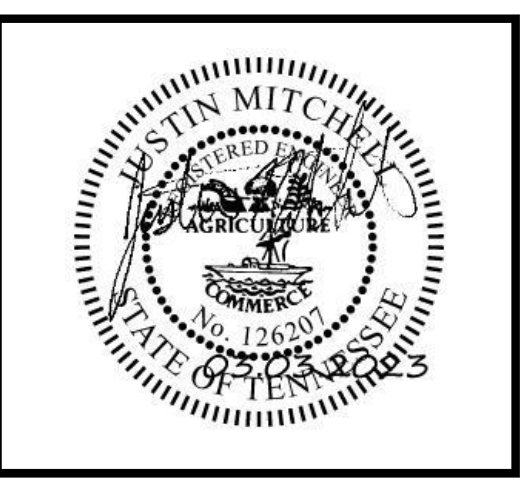
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THROUGH-PENETRATION FIRESTOP SYSTEMS
 C-AJ-5080
 No Scale

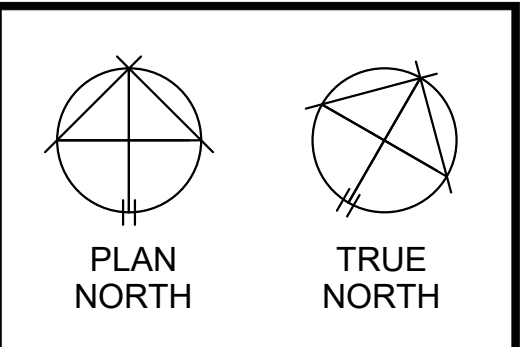
3

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TOWN OF NOLENSVILLE
FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE



REVISIONS

NO.	DESCRIPTION

DR. BY Patricia Suite
CK. BY David Peters
PROJ. NO. A01122
DATE 03/03/23
FIRE PROTECTION - PENETRATION DETAILS

FP003



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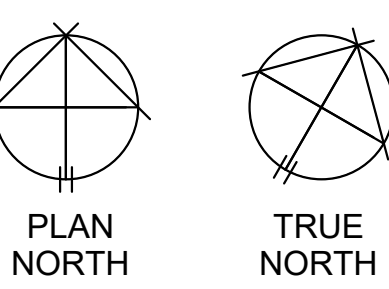


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**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**

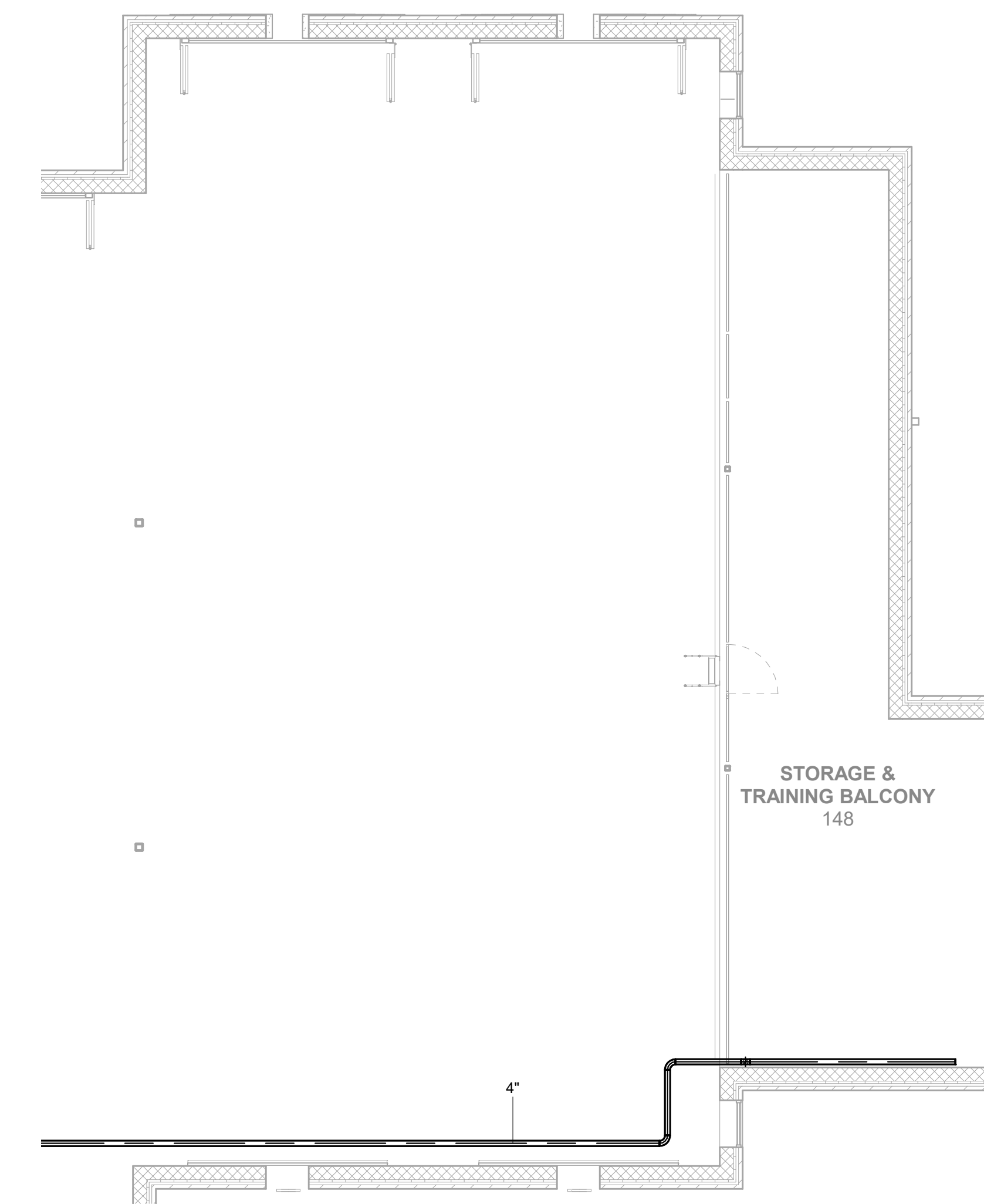
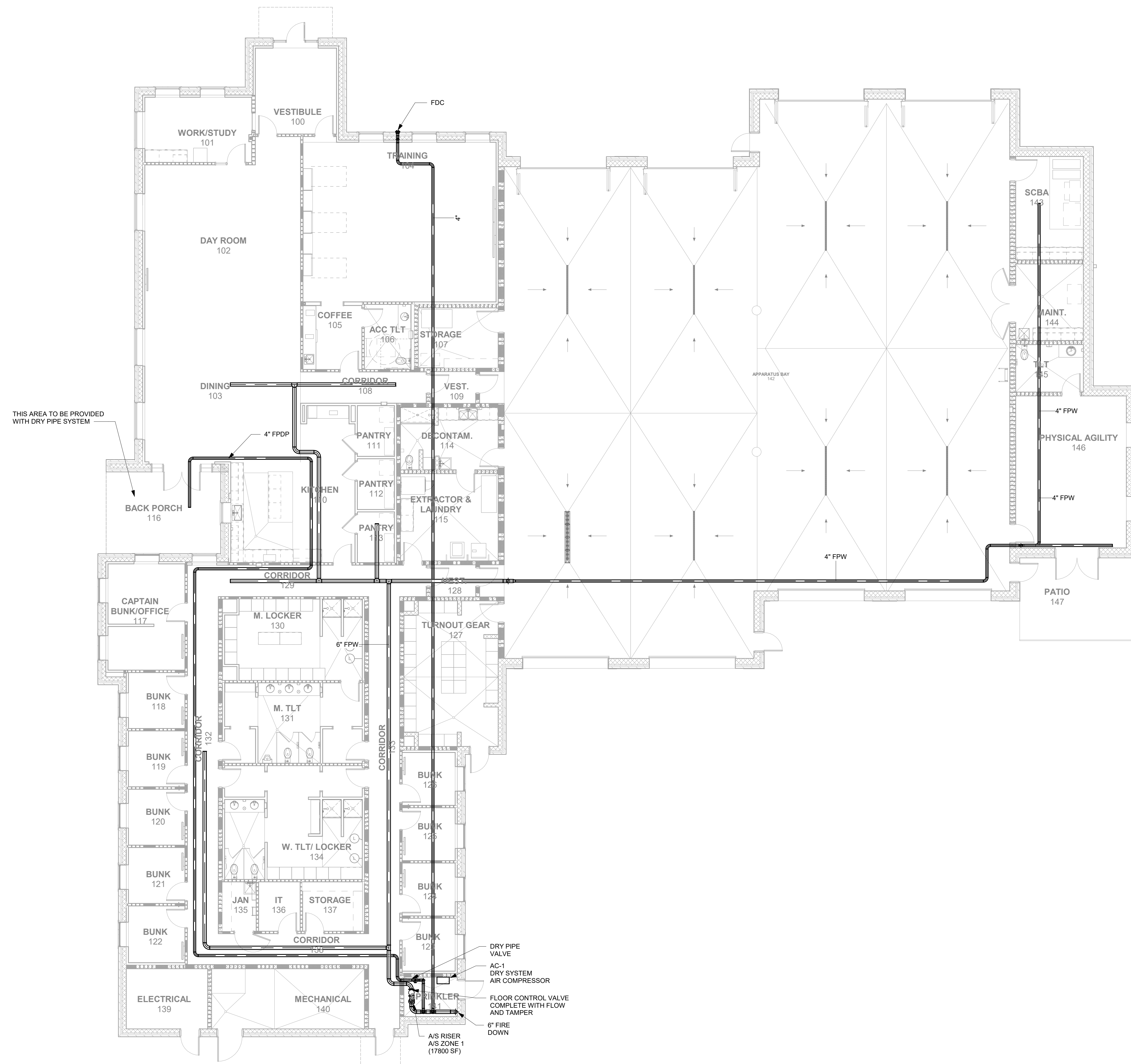


REVISIONS

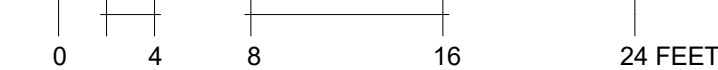
DR. BY Patricia Suite
CK. BY David Peters
PROJ. NO. A01122
DATE 03/03/23

**FIRE PROTECTION
- LEVEL 1 FLOOR
PLAN**

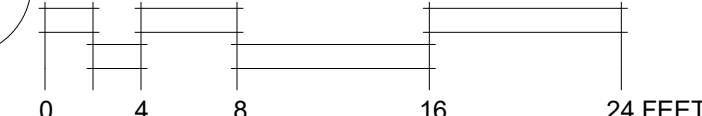
FP101



2 FIRE PROTECTION - MEZZANINE FLOOR PLAN



1 FIRE PROTECTION - LEVEL 1 FLOOR PLAN





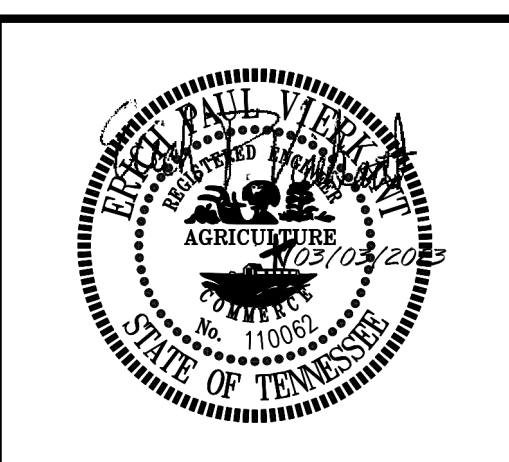
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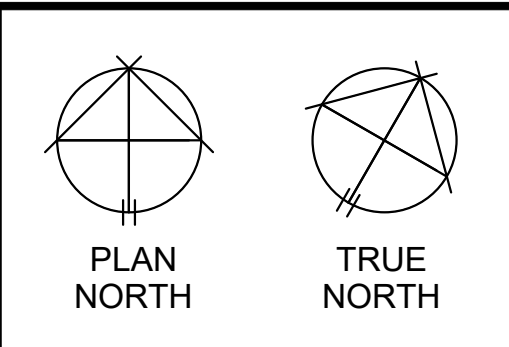


Table with 2 columns: REVISIONS, and empty rows for revision tracking.

DR. BY GT
CK. BY EV
PROJ. NO. A01122
DATE 03/03/23
ELECTRICAL
LEGEND AND
SCHEDULES

E000

ELECTRICAL LEGEND

Main Electrical Legend table with columns: SYMBOL, DESCRIPTION, MOUNTING HEIGHT TO CENTERLINE UON. Includes sections for Lighting Fixtures, Disconnects, Receptacles, Fire Alarm System, and Abbreviations.

Lighting Fixture Schedule table with columns: Type Comments, Manufacturer, Model, Mount, Description. Lists various lighting fixtures like SPI LIGHTING, COLUMBIA LIGHTING, DMF LIGHTING, etc.

COMBINATION DISCONNECT/STARTER SCHEDULE (FURNISHED BY ELECTRICAL CONTRACTOR) table with columns: ITEM SERVED, H.P., VOLT/PHASE, NEMA SIZE, NEMA ENCL, CONTROL ITEMS ON STARTER.



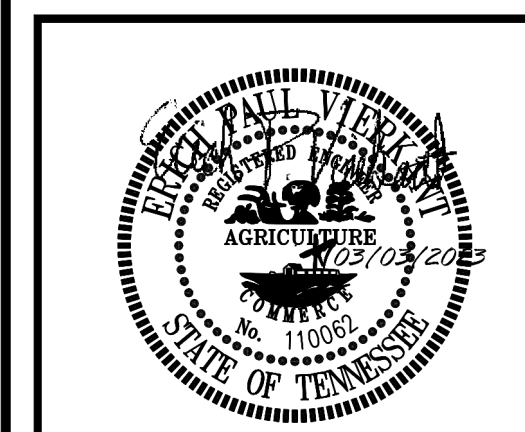
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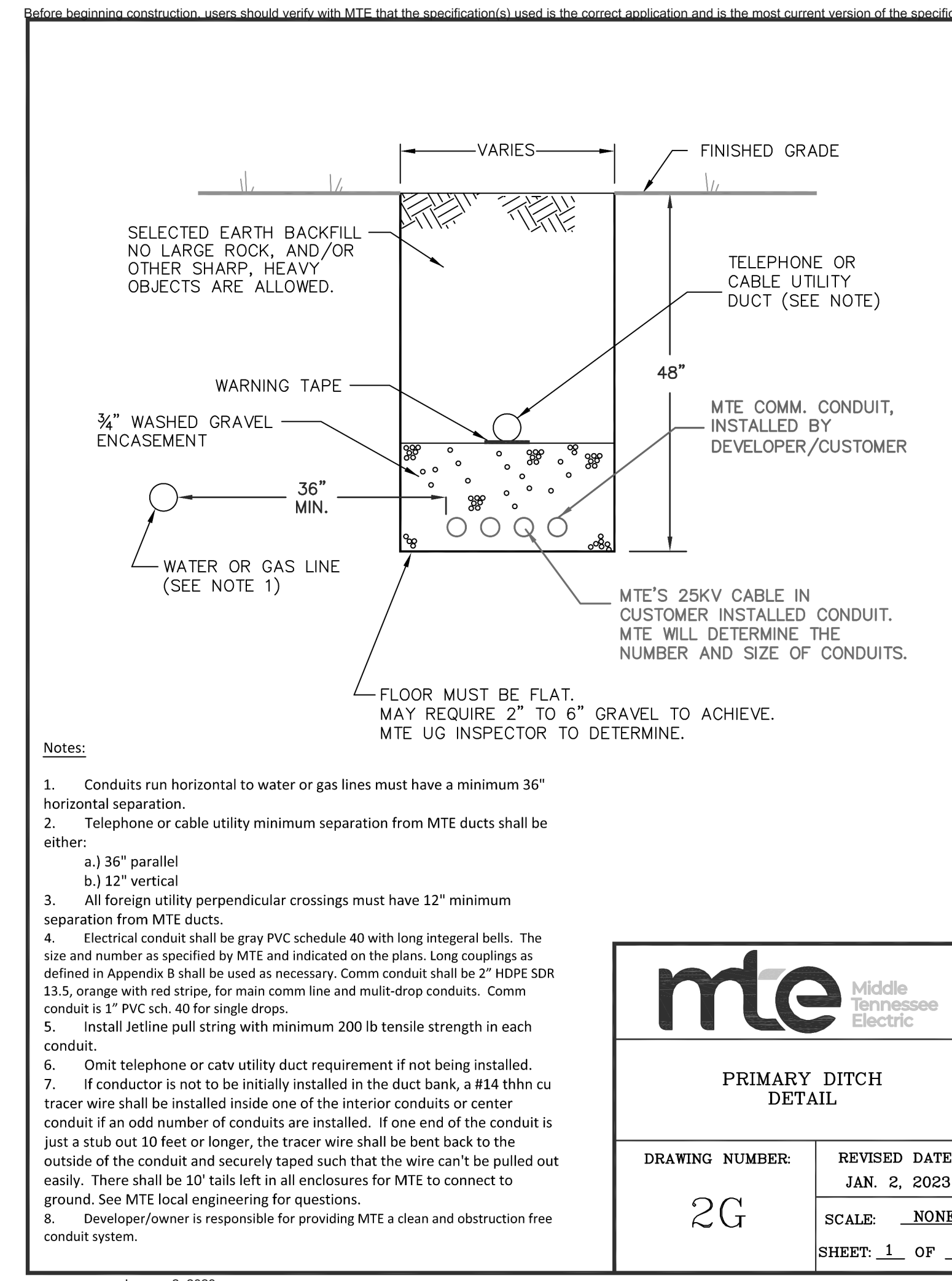
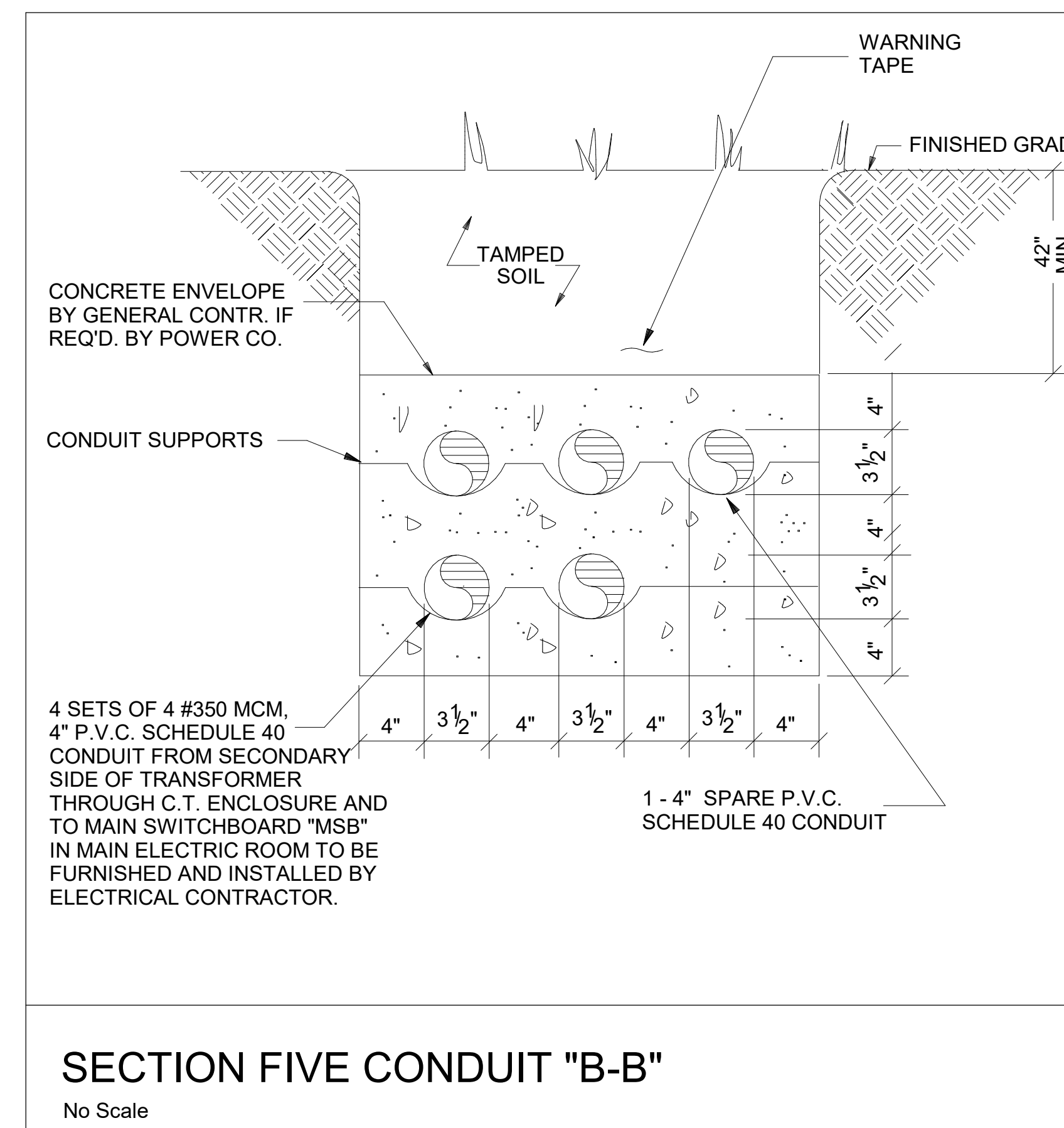
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ELECTRICAL NOTES:

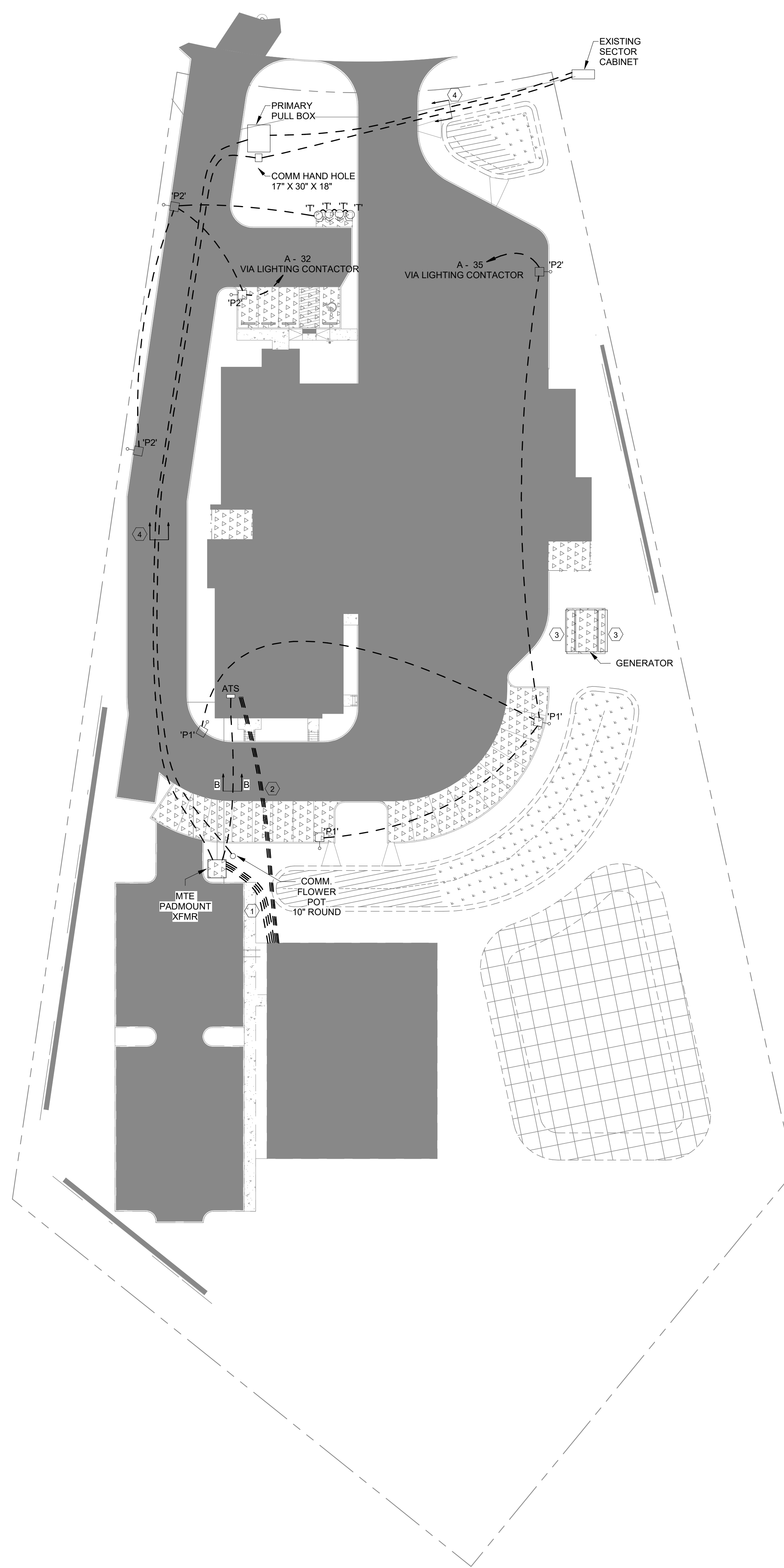
1. PROVIDE 4"-C. STUBBED OUT OF TRANSFORMER SECONDARY TO FLUSH IN GRADE BOX FOR FUTURE BUILDING.
2. PROVIDE 3"-C. STUBBED OUT OF ELECTRICAL ROOM TO FLUSH IN GRADE BOX FOR FUTURE USE.
3. PROVIDE PLATFORMS FOR PROPER ACCESS TO GENERATOR.
4. PROVIDE DUCTBANK PER PRIMARY DITCH DETAIL 2G.



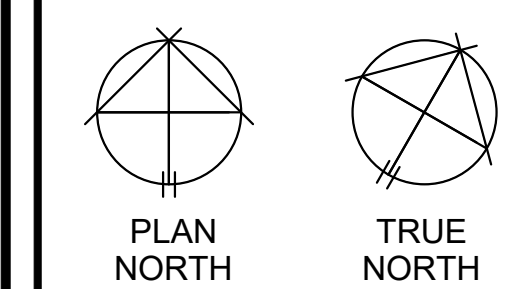
mte Middle Tennessee Electric

PRIMARY DITCH DETAIL

DRAWING NUMBER:	REVISED DATE:
2G	JAN. 2, 2023
SCALE:	NONE
SHEET:	1 OF 1



1 ELECTRICAL SITE PLAN



REVISIONS

DR. BY	GT
CK. BY	EV
PROJ. NO.	A01122
DATE	03/03/23

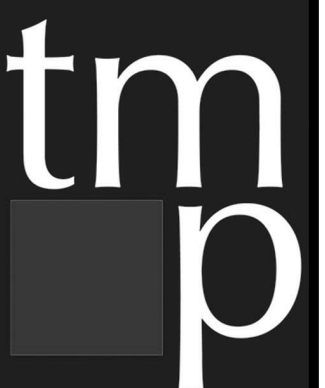
ELECTRICAL SITE PLAN

E001



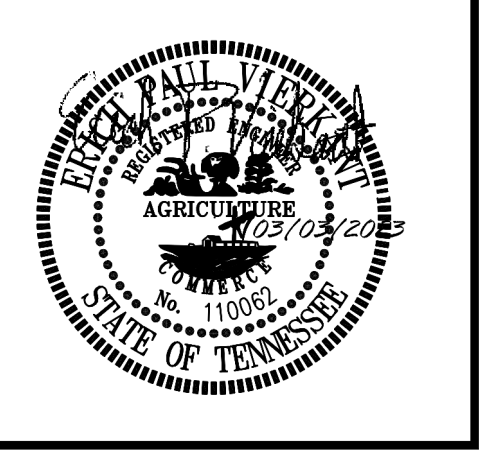
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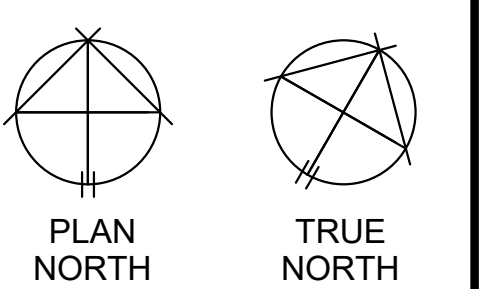


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TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



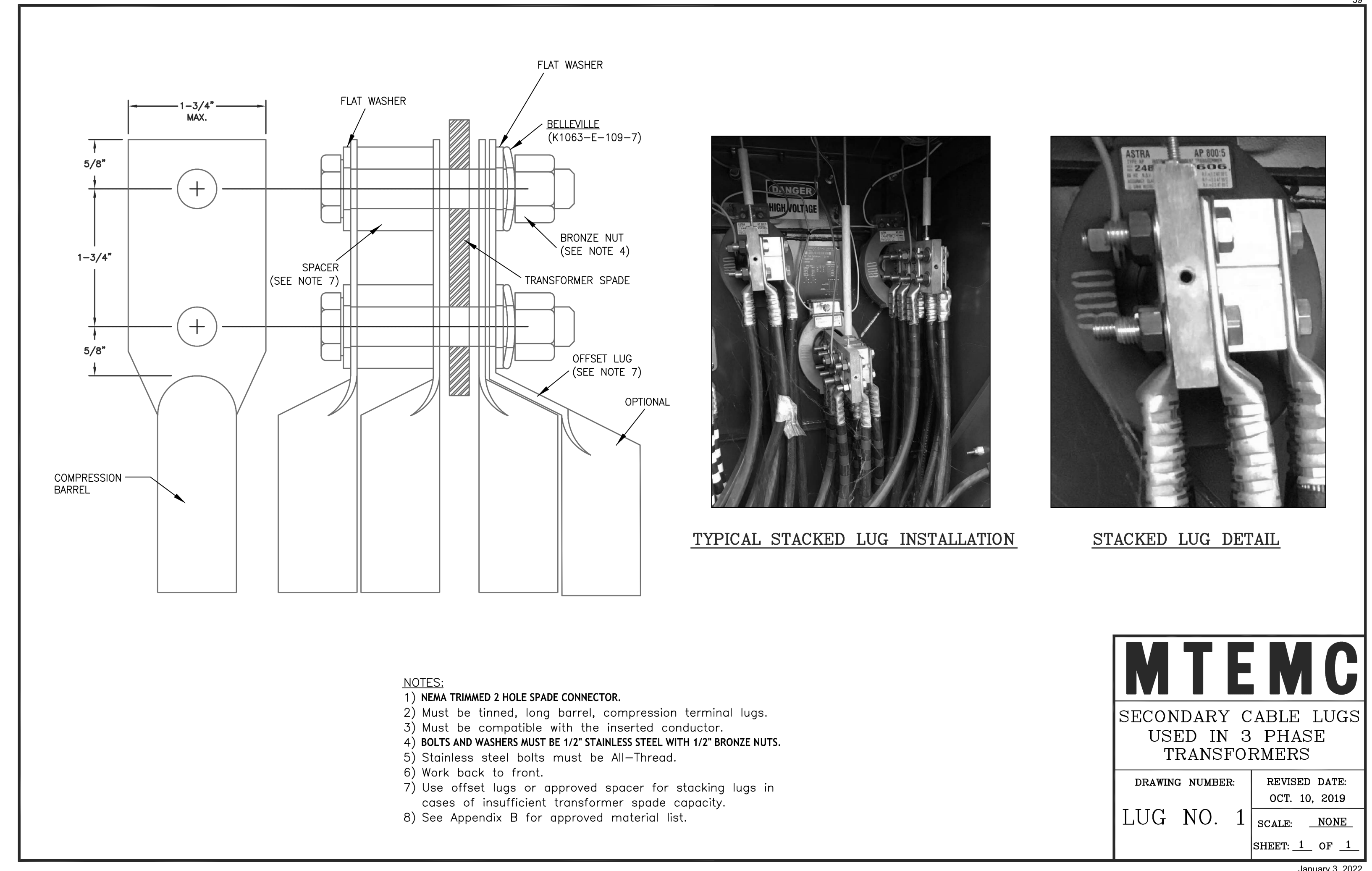
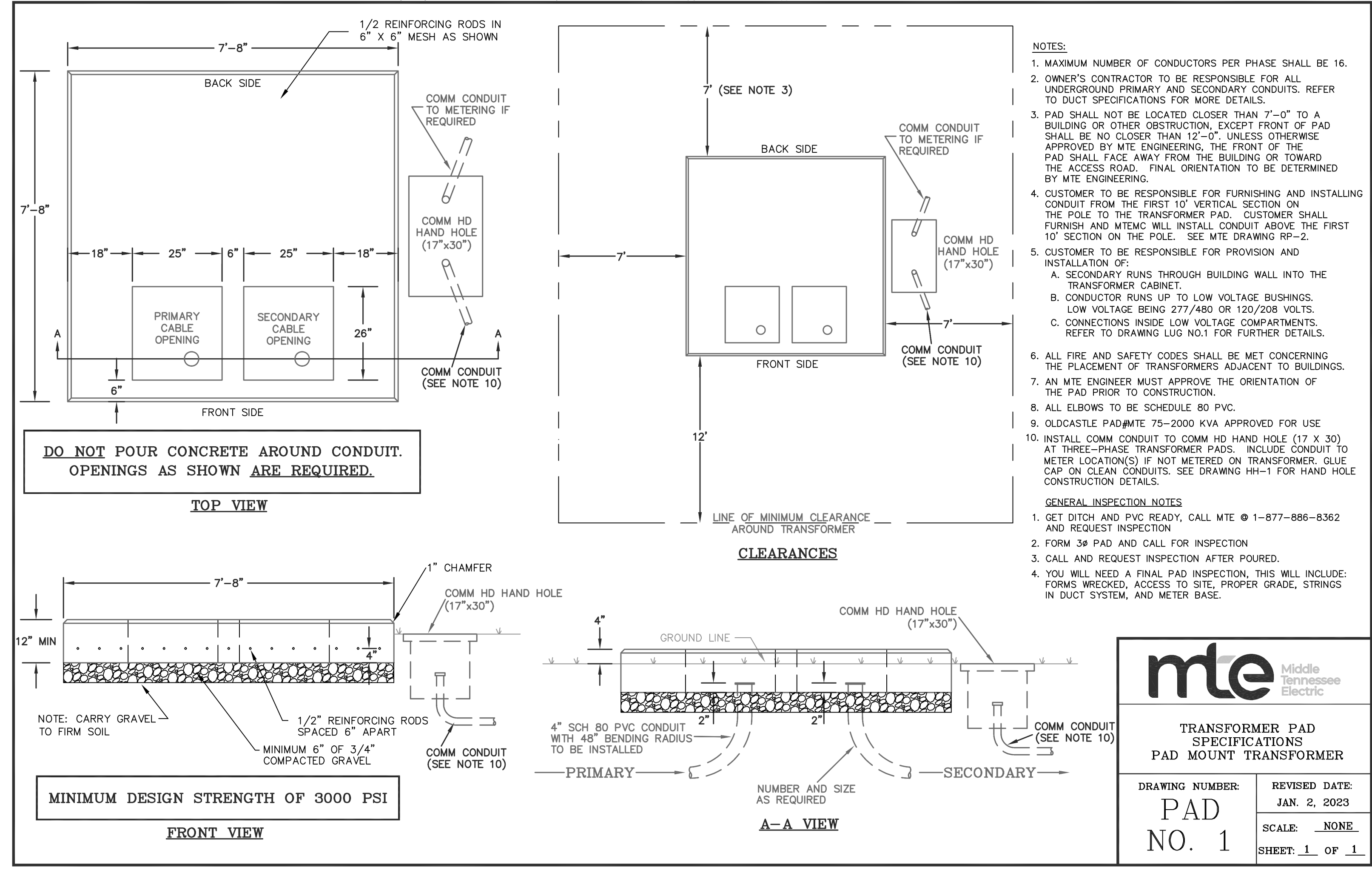
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DATE	03/03/23

ELECTRICAL SITE
PLAN - DETAILS

E002

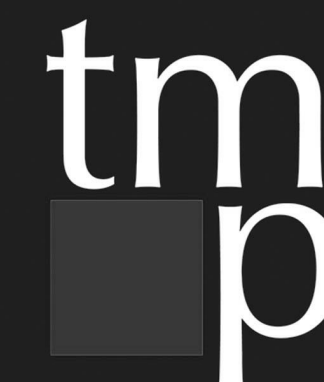
Before beginning construction, users should verify with MTE that the specification(s) used is the correct application and is the most current version of the specification.





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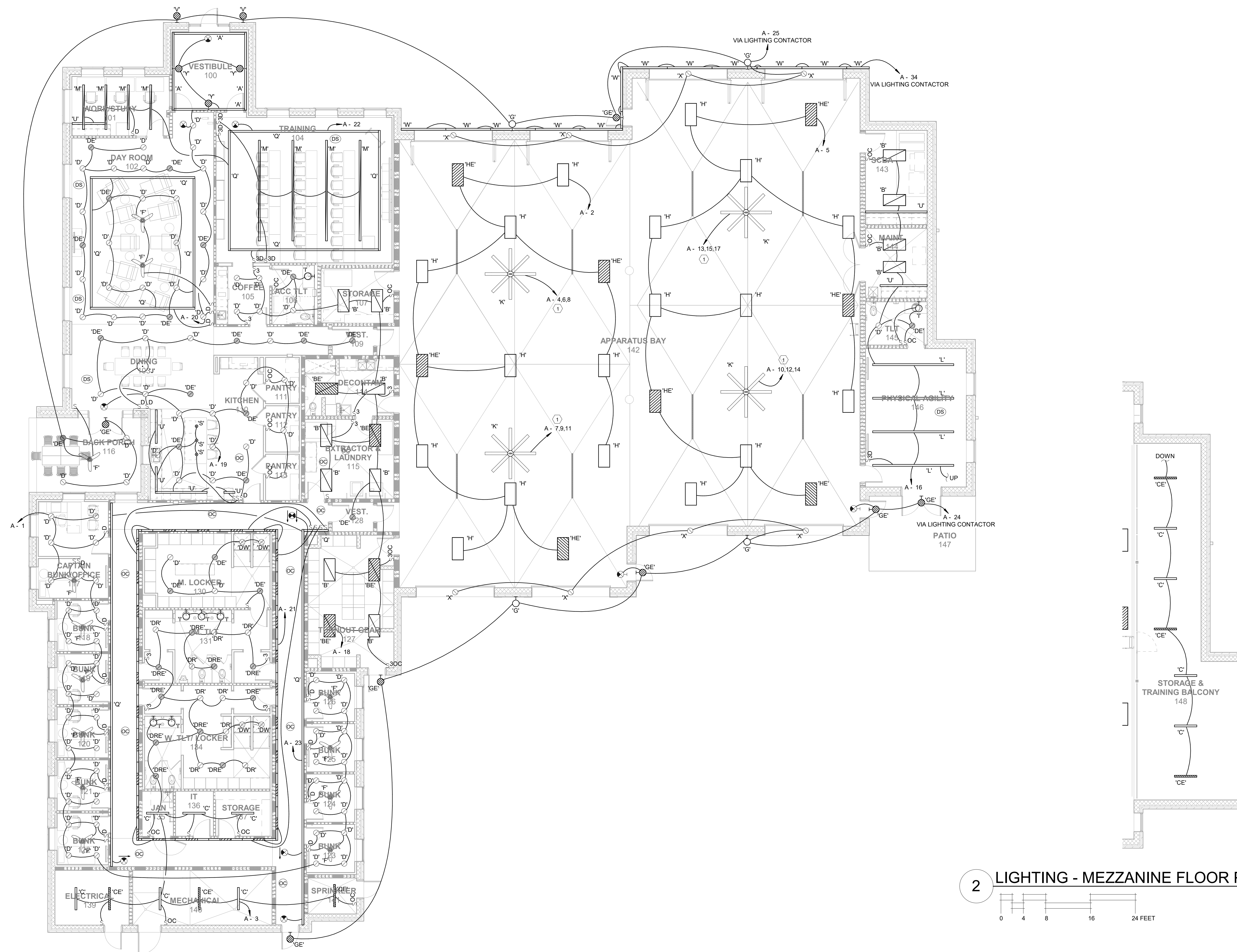


ELECTRICAL KEYNOTES:

- ROUTE CIRCUITS THROUGH CONTACTOR. CONTACTOR SHALL BE NORMALLY CLOSED AND SHALL OPEN UPON FIRE ALARM SYSTEM RELAY TO TURN OFF DURING A FIRE ALARM EVENT.

GENERAL NOTES:

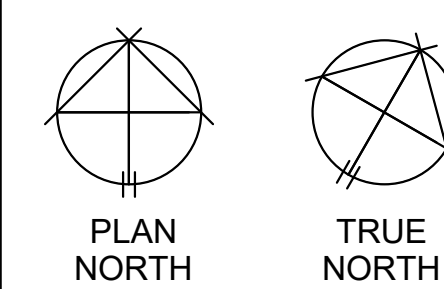
- COORDINATE ALL MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY EMBEDDED CONDUIT AND WALL PENETRATIONS PRIOR TO GROUTING WALLS SOLID.



1 LIGHTING - LEVEL 1 FLOOR PLAN

2 LIGHTING - MEZZANINE FLOOR PLAN

TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



REVISIONS

NO.	DESCRIPTION	DATE

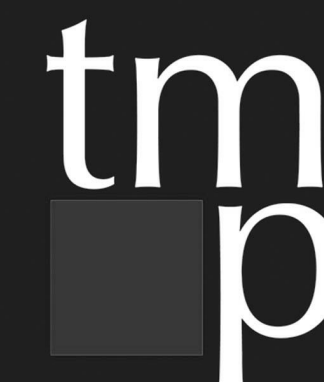
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LIGHTING - LEVEL 1 FLOOR PLAN

E101



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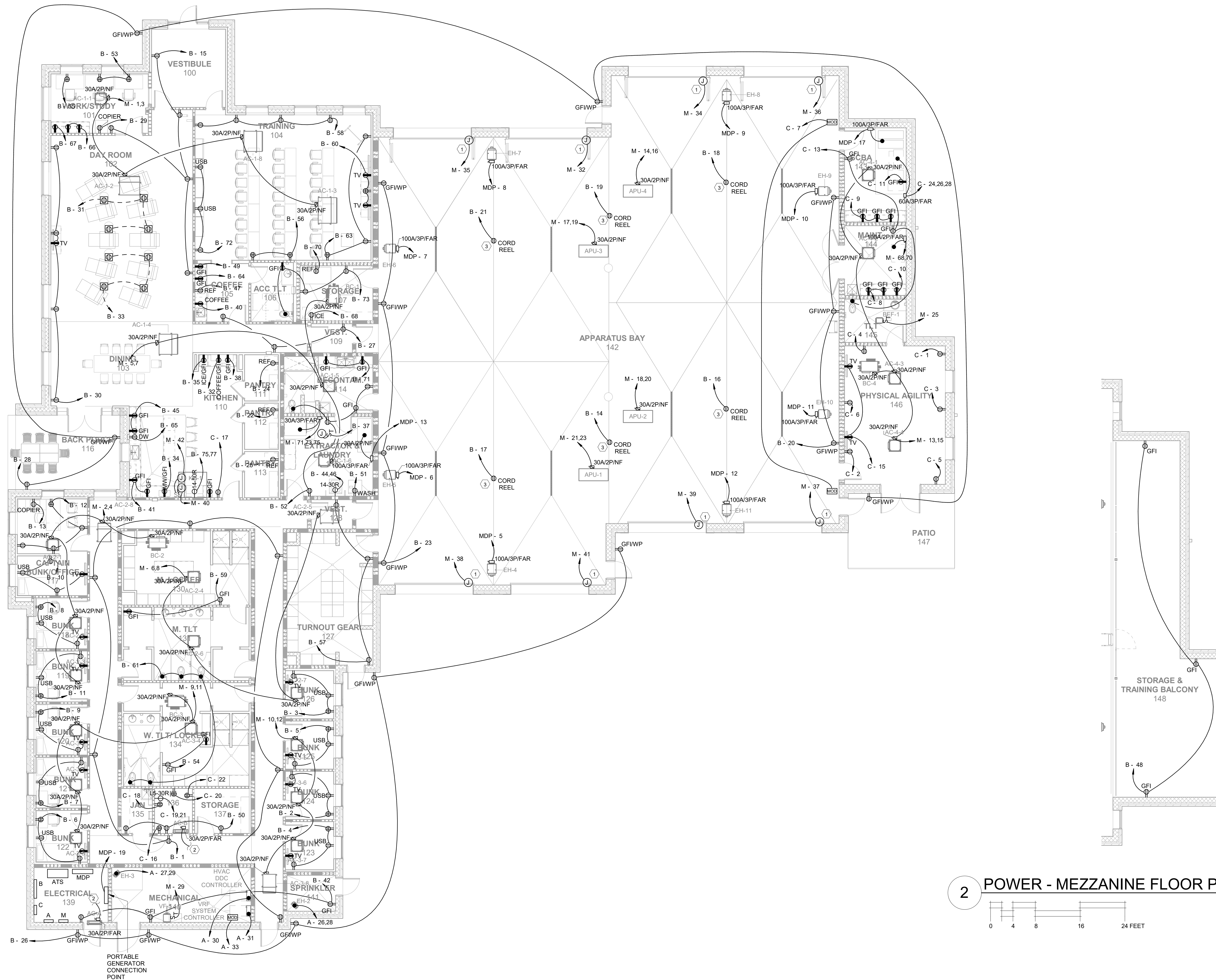


ELECTRICAL NOTES: ○

1. PROVIDE ELECTRICAL CONNECTION TO OVERHEAD DOOR.
2. INDOOR UNIT POWERED FROM OUTDOOR UNIT. CONNECT TO CONDENSING UNIT ON ROOF. REFERENCE E202.
3. PROVIDE CORD REEL REELCRAFT #L45451237A OR EQUAL BY HUBBELL OR COX REELS AT THIS LOCATION.

GENERAL NOTES:

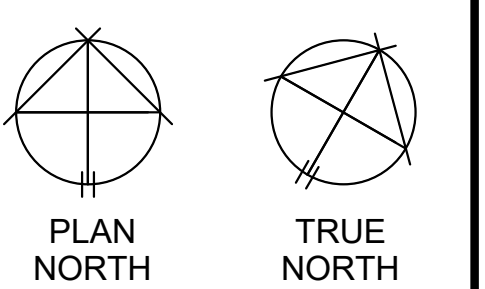
- A. COORDINATE ALL MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY EMBEDDED CONDUIT AND WALL PENETRATIONS PRIOR TO GROUTING WALLS SOLID.



2 POWER - MEZZANINE FLOOR PLAN
 0 4 8 16 24 FEET

1 POWER - LEVEL 1 FLOOR PLAN
 0 4 8 16 24 FEET

**TOWN OF NOLENSVILLE
 FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE**



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PROJ. NO.	A01122
DATE	03/03/23
POWER - LEVEL 1 FLOOR PLAN	

E201



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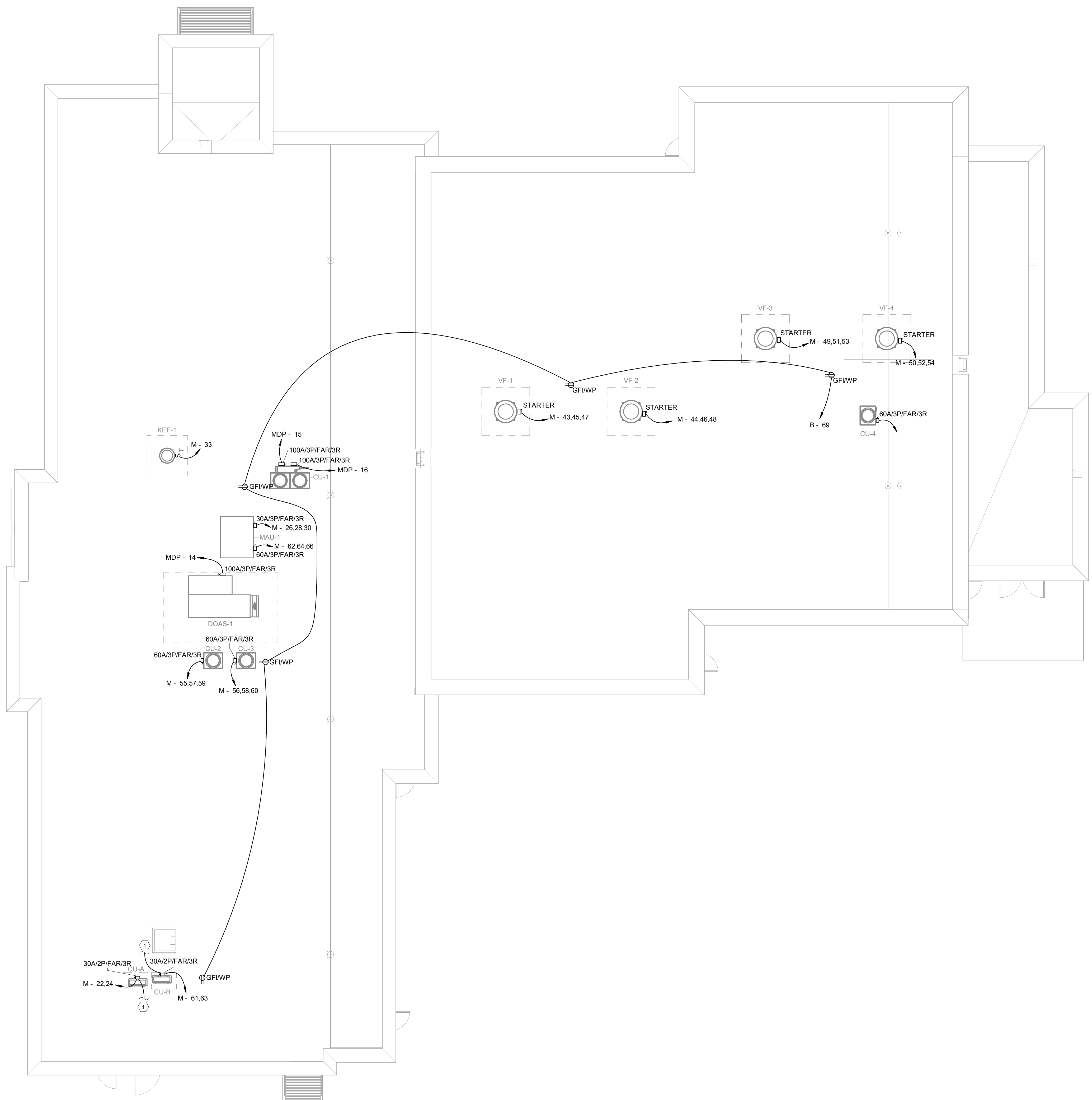


ELECTRICAL NOTES:

1. INDOOR UNIT POWERED FROM OUTDOOR UNIT. PROVIDE CONNECTION TO INDOOR UNIT AS REQUIRED.

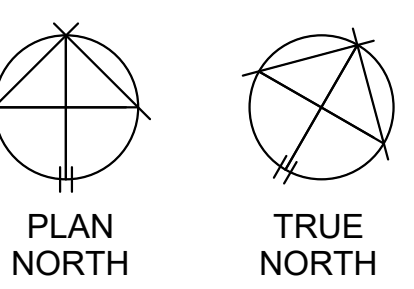
GENERAL NOTES:

- A. PROVIDE LIGHTNING PROTECTION SYSTEM PER DETAILS ON PLAN E601 AND SPECIFICATION SECTION 26 41 13.
- B. COORDINATE ALL MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY EMBEDDED CONDUIT AND WALL PENETRATIONS PRIOR TO GROUTING WALLS SOLID.



1 POWER - ROOF PLAN
 0 4 8 16 24 FEET

TOWN OF NOLENSVILLE
 FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
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REVISIONS

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POWER - ROOF PLAN	



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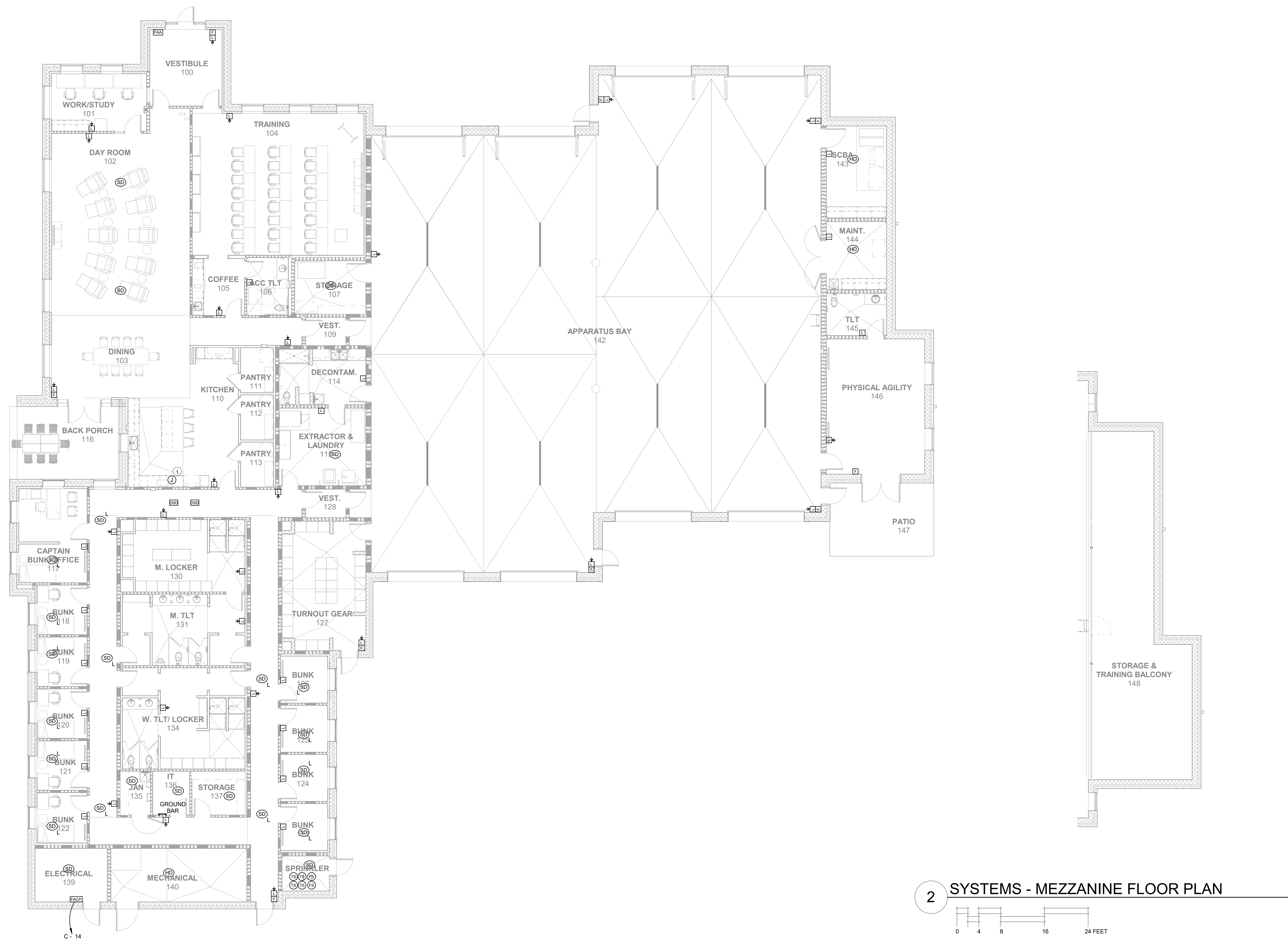


ELECTRICAL NOTES:

1. PROVIDE FIRE ALARM CONNECTION TO HOOD FIRE SUPPRESSION AS REQUIRED.

GENERAL NOTES:

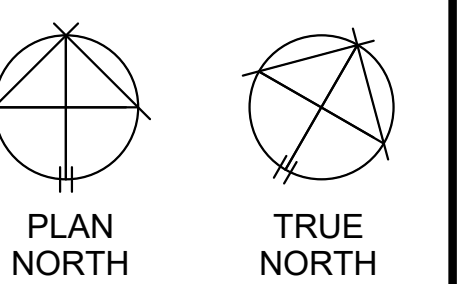
- A. COORDINATE ALL MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY EMBEDDED CONDUIT AND WALL PENETRATIONS PRIOR TO GROUTING WALLS SOLID.



1 SYSTEMS - LEVEL 1 FLOOR PLAN

2 SYSTEMS - MEZZANINE FLOOR PLAN

TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



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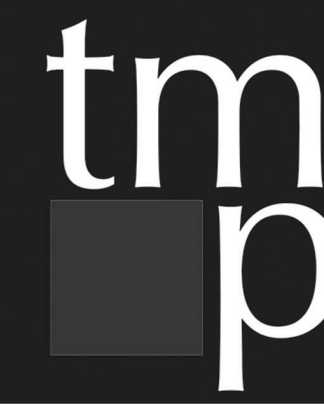
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DATE	03/03/23

SYSTEMS - LEVEL 1 FLOOR PLAN

E301



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CONDUIT AND WIRE DESIGNATION SCHEDULE

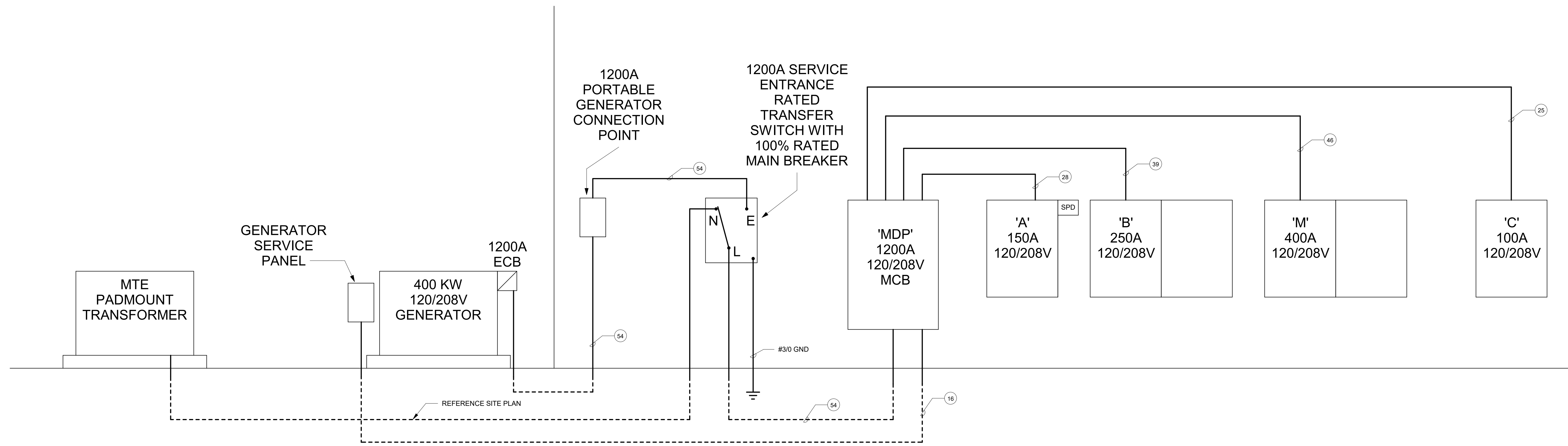
COPPER

WIRE/BKR	DESIG.	DESCRIPTION	WIRE/BKR	DESIG.	DESCRIPTION
MAX AMPS	#		MAX AMPS	#	
20	1	2#12, 1/2"	200	32	2#30, 1#6G, 2"
20	2	2#12, 1#12G, 1/2"	200	33	3#30, 1#6G, 2"
20	3	3#12, 1#12G, 1/2"	200	34	4#30, 1#6G, 2"
20	4	4#12, 1#12G, 1/2"	230	35	2#40, 1#4G, 2"
30	5	2#10, 1#10G, 3/4"	230	36	3#40, 1#4G, 2"
30	6	3#10, 1#10G, 3/4"	230	37	4#40, 1#4G, 2-1/2"
30	7	4#10, 1#10G, 3/4"	255	38	3#250MCM, 1#4G, 2-1/2"
40	8	2#8, 1#10G, 3/4"	255	39	4#250MCM, 1#4G, 2-1/2"
40	9	3#8, 1#10G, 3/4"	285	40	3#300MCM, 1#4G, 2-1/2"
40	10	4#8, 1#10G, 3/4"	285	41	4#300MCM, 1#4G, 3"
55	11	2#6, 1#10G, 3/4"	310	42	3#350MCM, 1#3G, 2-1/2"
55	12	3#6, 1#10G, 3/4"	310	43	4#350MCM, 1#3G, 3"
55	13	4#6, 1#10G, 1"	380	44	3#500MCM, 1#3G, 3"
70	14	2#4, 1#8G, 1"	380	45	4#500MCM, 1#3G, 3-1/2"
70	15	3#4, 1#8G, 1"	480	46	2 SETS, EA:4#40, 1#2G, 2-1/2"
70	16	4#4, 1#8G, 1-1/4"	510	47	2 SETS, EA:4#250MCM, 1#1G, 2-1/2"
85	17	2#3, 1#8G, 1-1/4"	620	48	2 SETS, EA:4#350MCM, 1#10G, 3"
85	18	3#3, 1#8G, 1-1/4"	760	49	2 SETS, EA:4#500MCM, 1#10G, 3-1/2"
85	19	4#3, 1#8G, 1-1/4"	855	50	3 SETS, EA:4#300MCM, 1#20G, 3"
95	20	2#2, 1#8G, 1-1/4"	930	51	3 SETS, EA:4#350MCM, 1#20G, 3"
95	21	3#2, 1#8G, 1-1/4"	1005	52	3 SETS, EA:4#400MCM, 1#30G, 3"
95	22	4#2, 1#8G, 1-1/4"	1140	53	3 SETS, EA:4#500MCM, 1#30G, 3-1/2"
130	23	2#1, 1#6G, 1-1/4"	1240	54	4 SETS, EA:4#350MCM, 1#40G, 3"
130	24	3#1, 1#6G, 1-1/4"	1675	55	5 SETS, EA:4#400MCM, 1#250MCMG, 3"
130	25	4#1, 1#6G, 1-1/2"	1900	56	5 SETS, EA:4#500MCM, 1#250MCMG, 3-1/2"
150	26	2#1/0, 1#6G, 1-1/2"	2010	57	6 SETS, EA:4#400MCM, 1#350MCMG, 3-1/2"
150	27	3#1/0, 1#6G, 1-1/2"	2280	58	6 SETS, EA:4#500MCM, 1#350MCMG, 3-1/2"
150	28	4#1/0, 1#6G, 2"	2660	59	7 SETS, EA:4#500MCM, 1#400MCMG, 3-1/2"
175	29	2#2/0, 1#6G, 1-1/2"	3040	60	8 SETS, EA:4#500MCM, 1#400MCMG, 3-1/2"
175	30	3#2/0, 1#6G, 1-1/2"	4180	61	11 SETS, EA:4#500MCM, 1#600MCMG, 3-1/2"
175	31	4#2/0, 1#6G, 2"			

CONDUIT SIZE BASED ON THHN/THWN 40% FILL CALCULATION
 WIRE SIZE BASED ON NEC 110-14C WITH 60°C AMPACITY TABLES FOR 20A THRU 100 AMPS
 AND 75°C AMPACITY TABLES FOR VALUES > 100 AMPS.

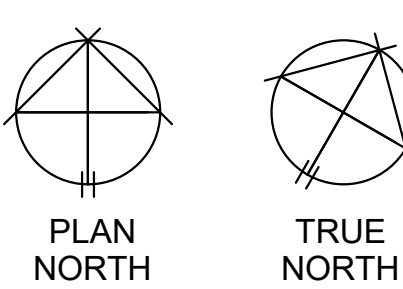
NOTE!
 IN GENERAL, THE ACTUAL BREAKER AMPERAGE SHALL BE EQUAL TO OR NEXT STANDARD SIZE SMALLER THAN THE MAXIMUM WIRE AMPS. EXCEPTIONS SHALL BE MOTOR AND SPECIAL EQUIPMENT BREAKERS WHICH SHALL BE SIZED PER N.E.C. AND VENDOR REQUIREMENTS. OMIT GROUND CONDUCTORS ON SERVICE ENTRANCE FEEDERS (TYPICAL). USE #12 WIRE U.O.N. PRIOR TO ROUGH-IN. CONTRACTOR SHALL COORDINATE BREAKER AND WIRING WITH ACTUAL REQUIREMENTS OF EQUIPMENT BEING FURNISHED FOR THIS SPECIFIC PROJECT.

UNLESS NOTED OTHERWISE ALL 20A, 1P, BREAKERS TO UTILIZE #12 CONDUCTORS. EXCEPT WHERE BRANCH CIRCUIT IS IN EXCESS OF 90 LINEAR FEET CONDUCTORS TO BE #10 AND OVER 175 FEET LINEAR FEET CONDUCTORS TO BE #8.



1 ELECTRICAL RISER DIAGRAM
 NOT TO SCALE

TOWN OF NOLENSVILLE
 FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE



NO.	DESCRIPTION

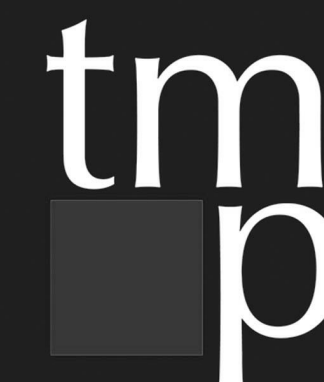
DR. BY GT
 CK. BY EV
 PROJ. NO. A01122
 DATE 03/03/23
**ELECTRICAL
 RISER DIAGRAM**

E401



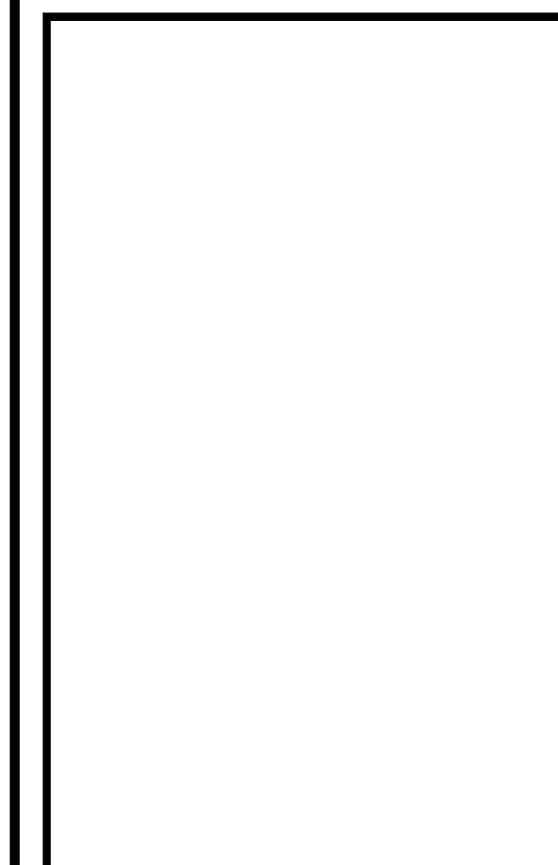
I.C. Thomasson Associates, Inc.

CONSULTING ENGINEERS
2950 KRAFT DRIVE
NASHVILLE, TN 37211
PHONE: (615) 346-3400
www.ictomasson.com
ICT Project No. 220082



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Brentwood, TN 37027-5593
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www.TMPartners.com



TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE

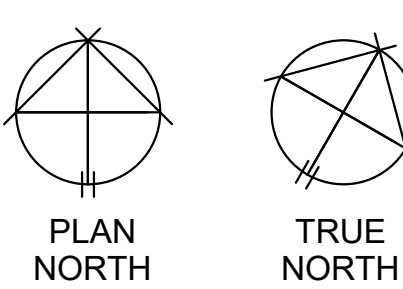


Table with 2 columns: Description, Date. Includes 'REVISIONS' header.

DR. BY: GT
CK. BY: EV
PROJ. NO.: A01122
DATE: 03/03/23
ELECTRICAL
PANEL
SCHEDULES

E501

Branch Panel: A

Location: ELECTRICAL 139
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MLO
Mains Rating: 150 A

Notes:

Table with columns: CKT, Circuit Description, Demand Code, TRIP, P, A, B, C, P, TRIP, Demand Code, Circuit Description, CKT. Lists various lighting and apparatus bay circuits.

Legend:

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Summary of electrical loads.

Notes:

Branch Panel: B

Location: ELECTRICAL 139
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MLO
Mains Rating: 250 A

Notes:

Table with columns: CKT, Circuit Description, Demand Code, TRIP, P, A, B, C, P, TRIP, Demand Code, Circuit Description, CKT. Lists various receptacle and equipment circuits.

Legend:

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Summary of electrical loads.

Notes:

Branch Panel: C

Location: ELECTRICAL 139
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MLO
Mains Rating: 100 A

Notes:

Table with columns: CKT, Circuit Description, Demand Code, TRIP, P, A, B, C, P, TRIP, Demand Code, Circuit Description, CKT. Lists various receptacle and equipment circuits.

Legend:

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Summary of electrical loads.

Notes:

Branch Panel: M

Location: ELECTRICAL 139
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MLO
Mains Rating: 400 A

Notes:

Table with columns: CKT, Circuit Description, Demand Code, TRIP, P, A, B, C, P, TRIP, Demand Code, Circuit Description, CKT. Lists various AC, APU, and equipment circuits.

Legend:

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Summary of electrical loads.

Notes:

Distribution Panel: MDP

Location: ELECTRICAL 139
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MCB
Mains Rating: 1200 A

Notes:

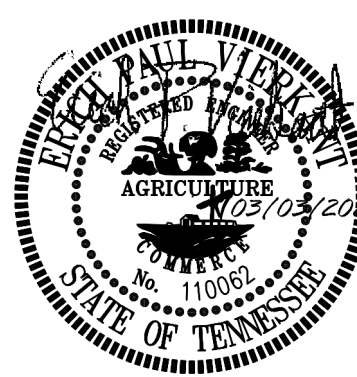
Table with columns: CKT, Circuit Description, # of Poles, Trip Rating, Load, Remarks. Lists various receptacles, equipment, and generator service panels.

Legend:

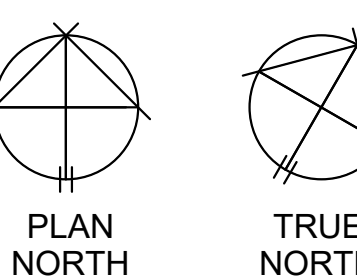
Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Summary of electrical loads.

Notes:

PROVIDE SERVICE ENTRANCE PANELBOARD WITH 100% RATED BREAKER.



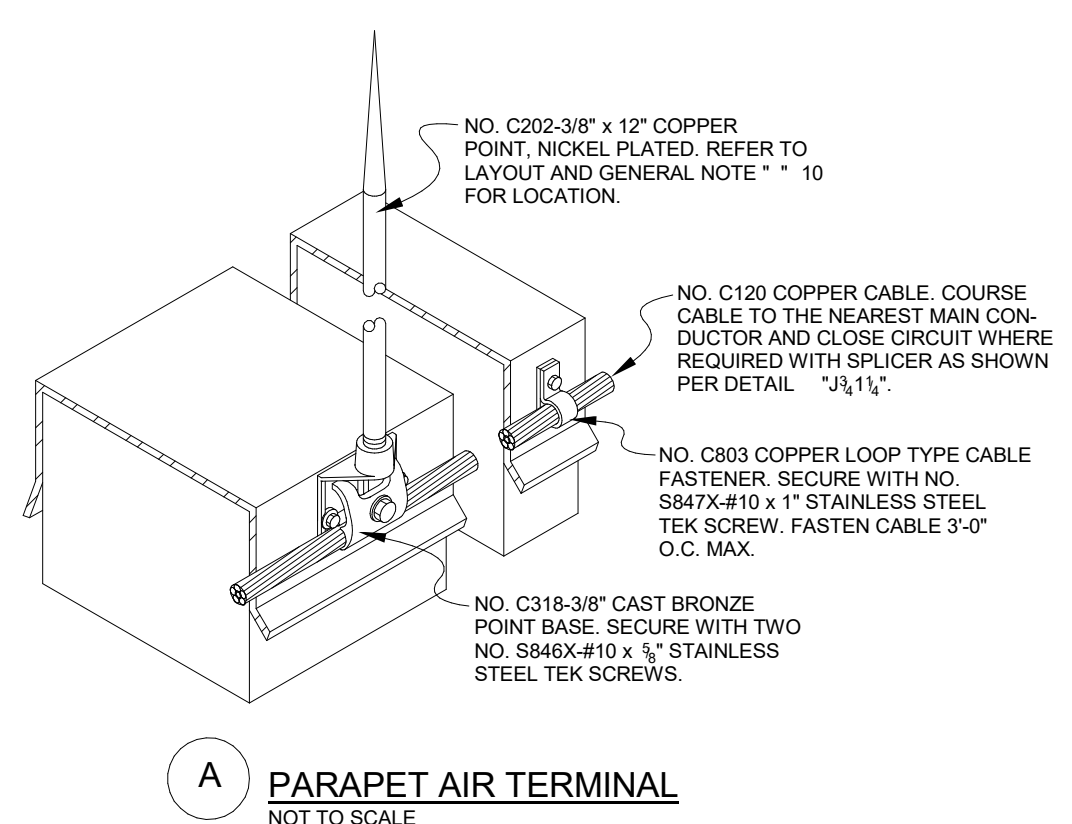
TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE



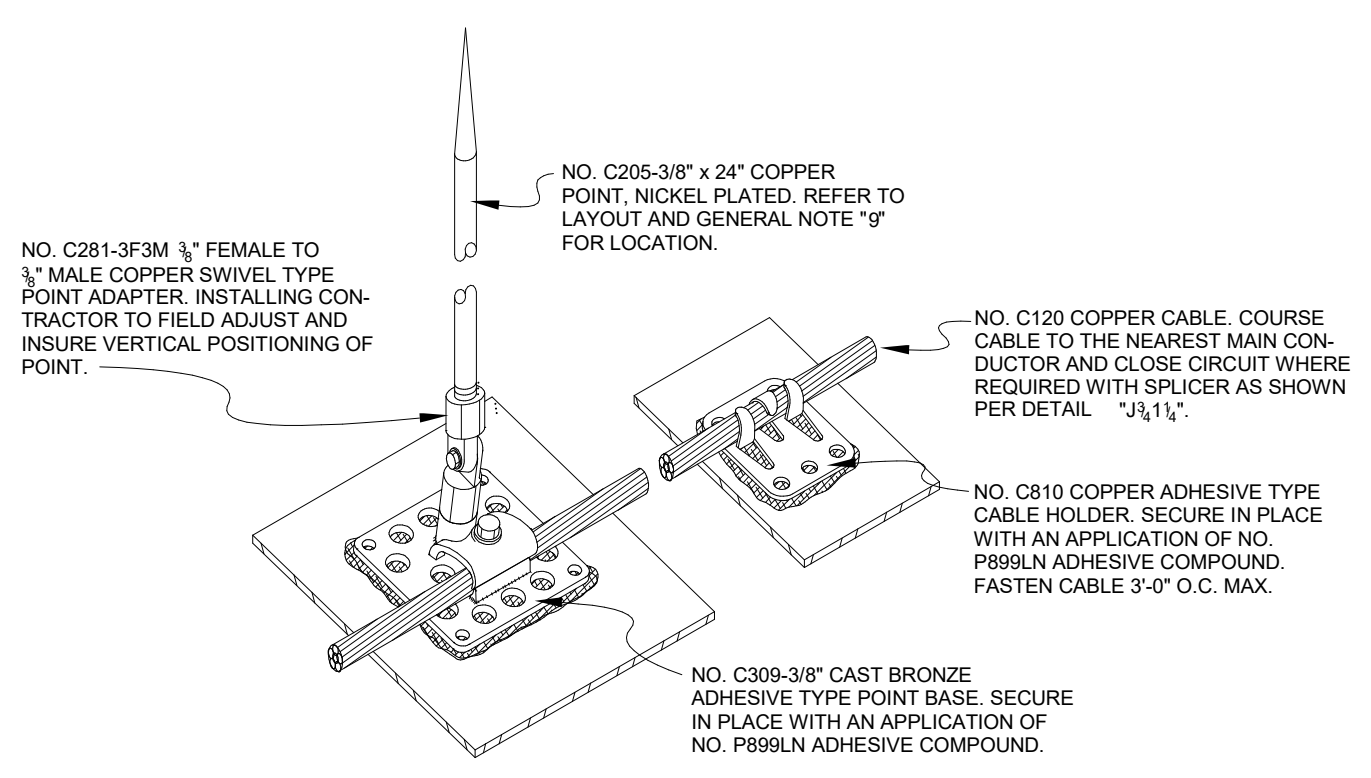
REVISIONS

NO.	DESCRIPTION	DATE

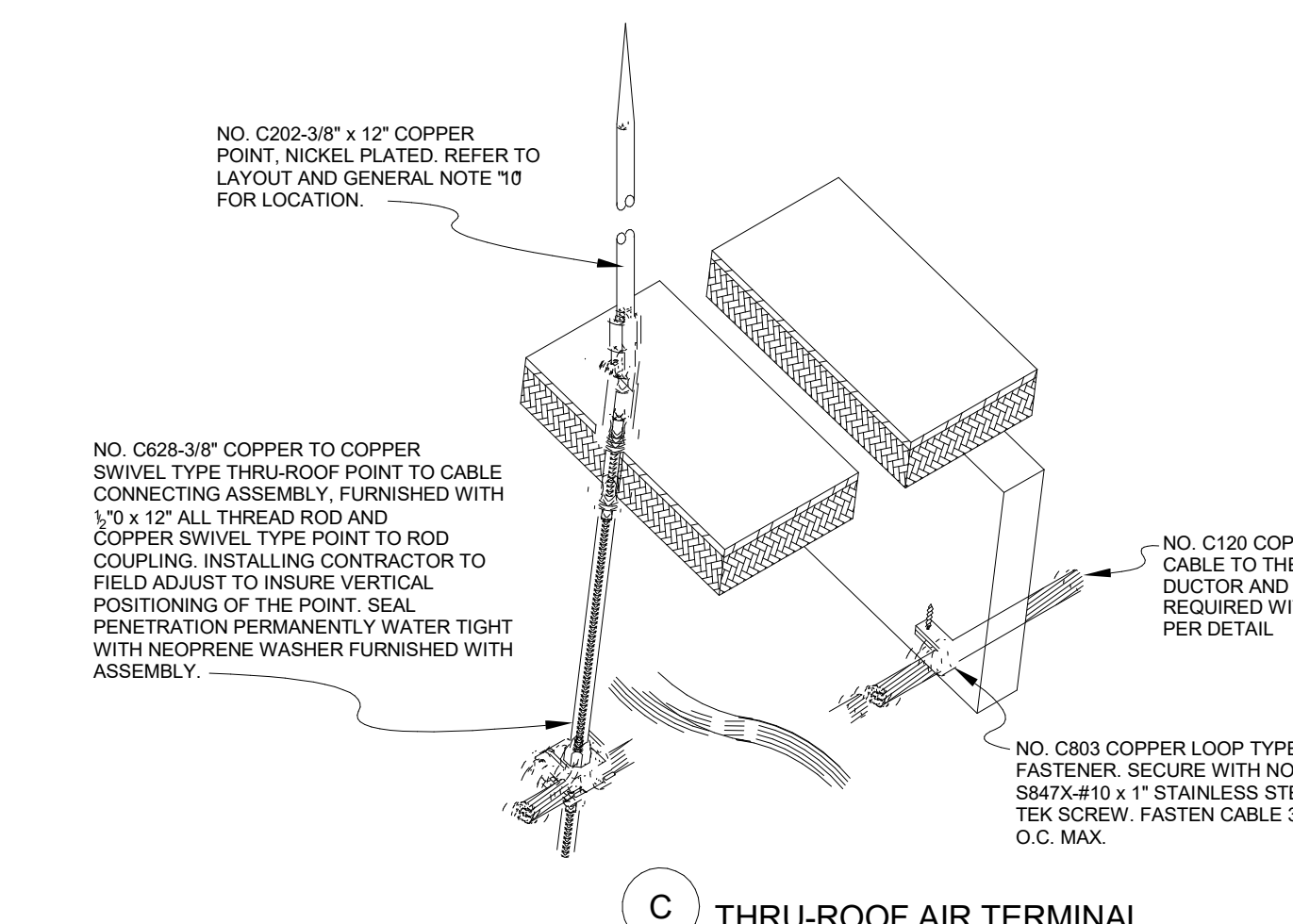
DR. BY GT
 CK. BY EV
 PROJ. NO. A01122
 DATE 03/03/23
**ELECTRICAL
 DETAILS**



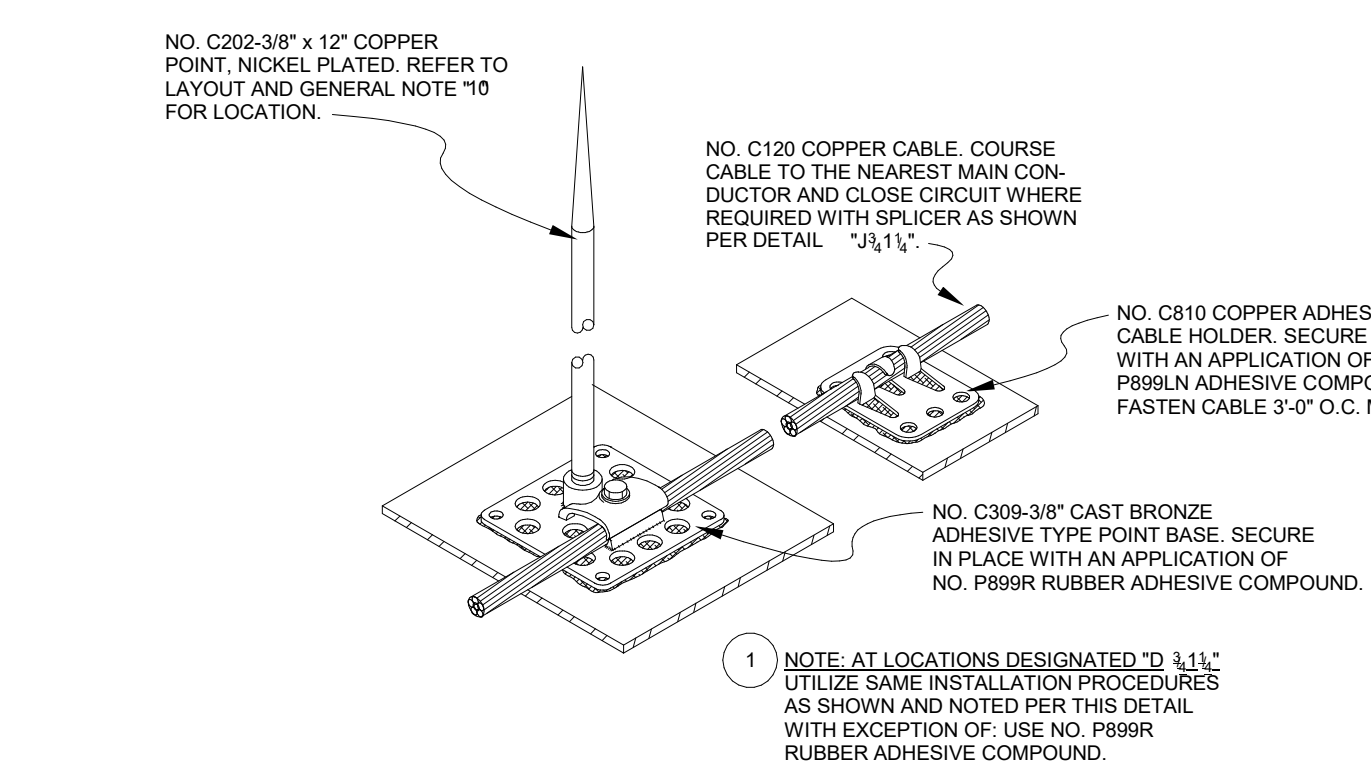
A PARAPET AIR TERMINAL
NOT TO SCALE



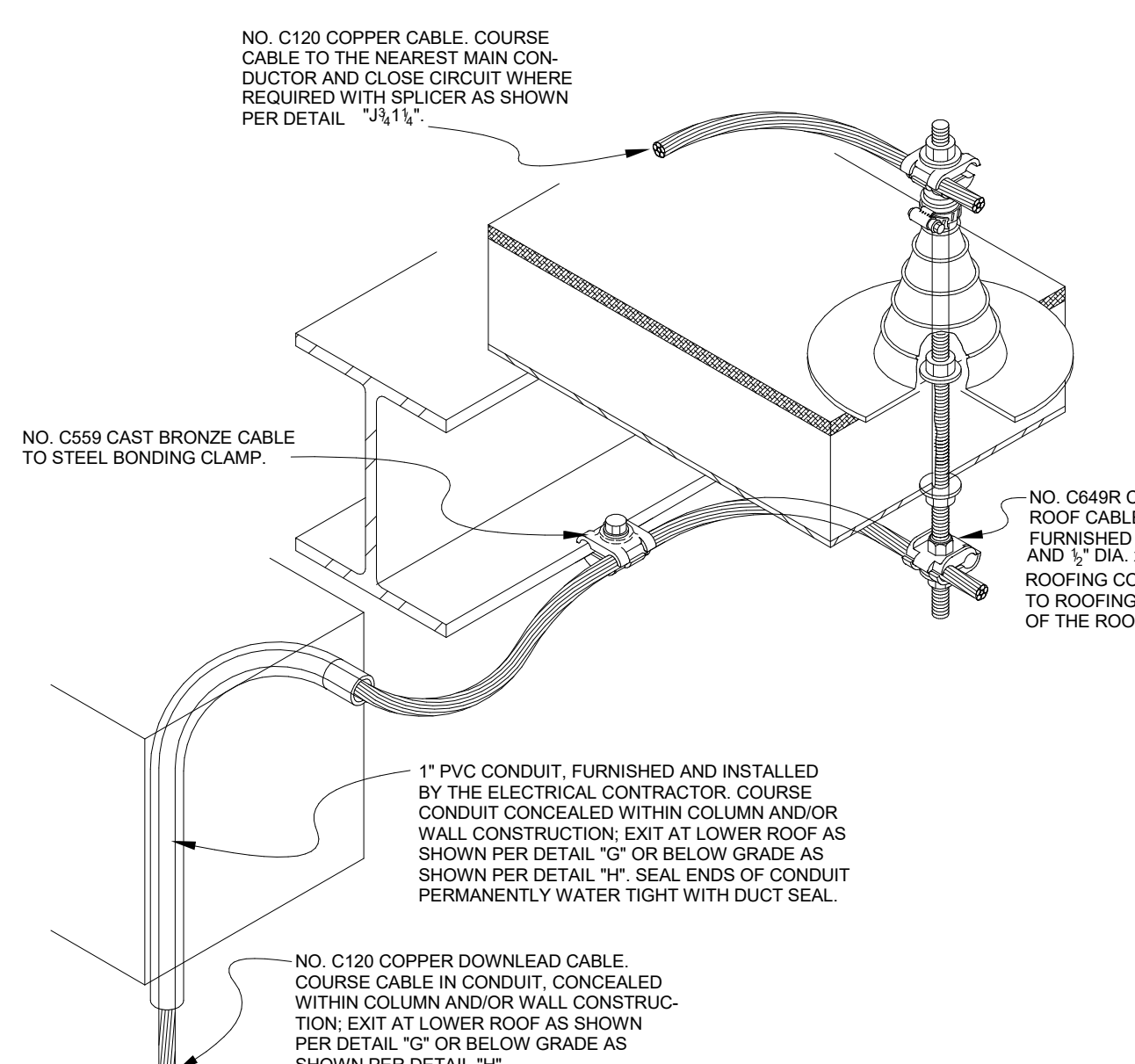
B ADHESIVE AIR TERMINAL
NOT TO SCALE



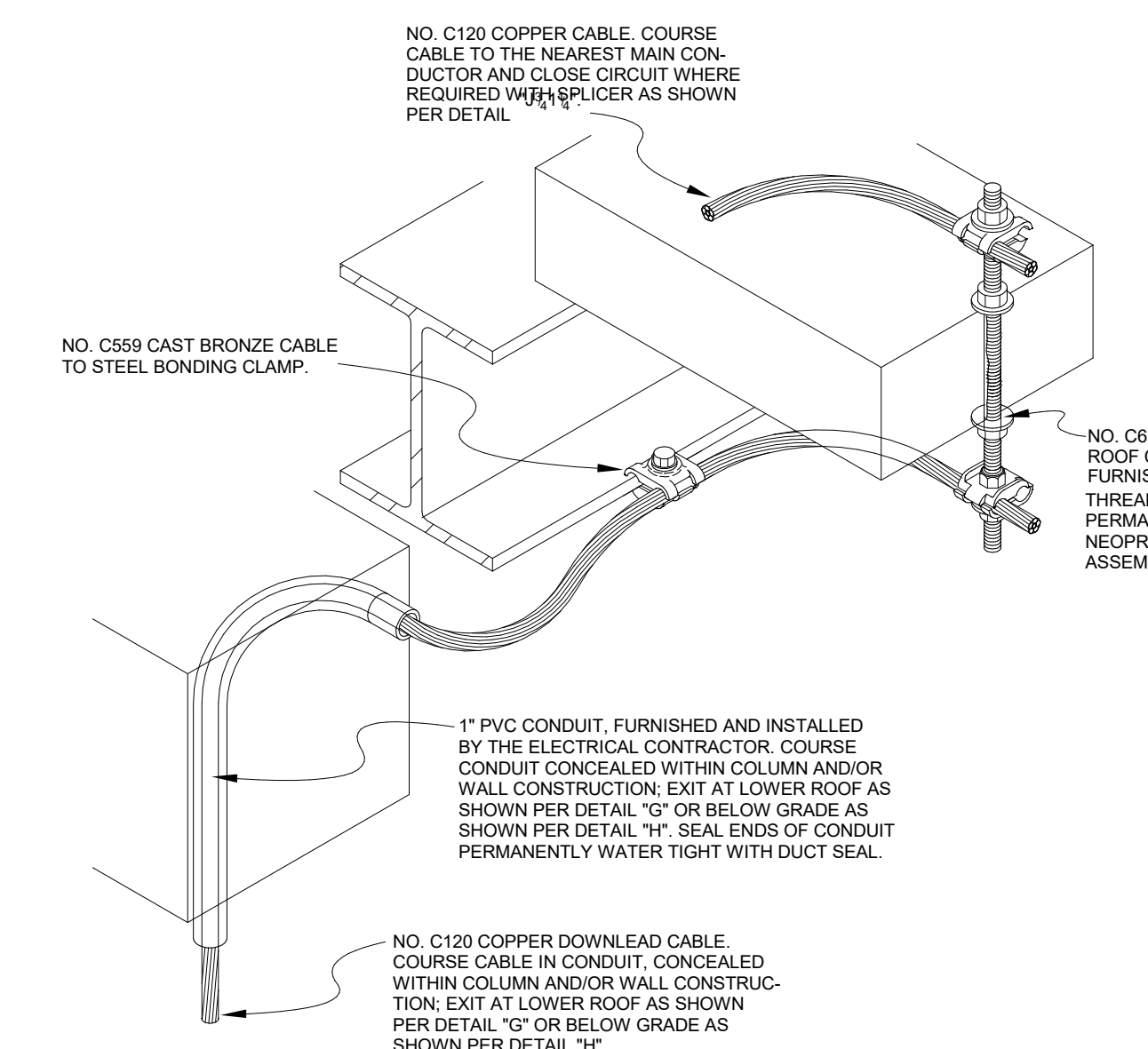
C THRU-ROOF AIR TERMINAL
NOT TO SCALE



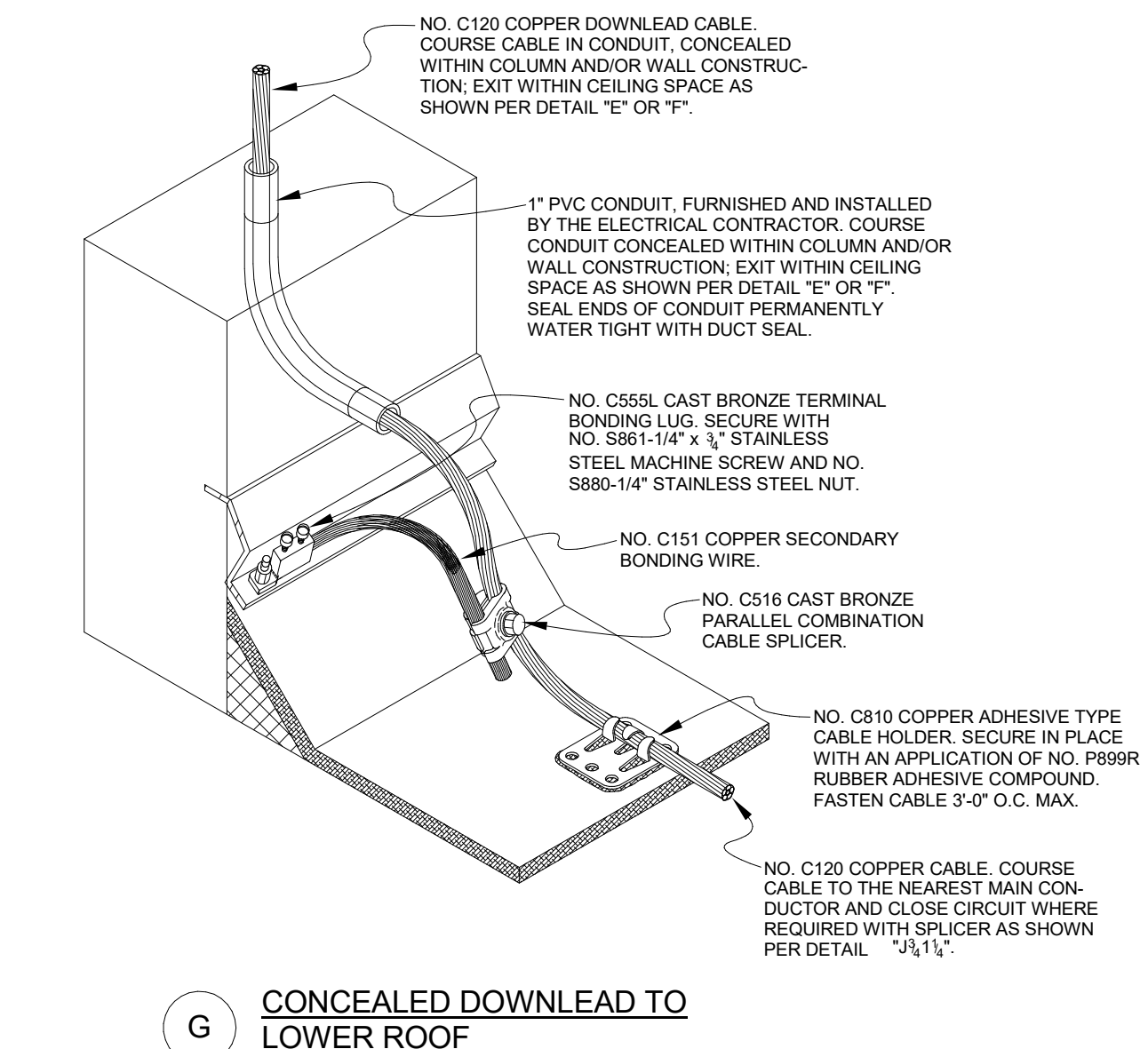
D MID-ROOF AIR TERMINAL
NOT TO SCALE



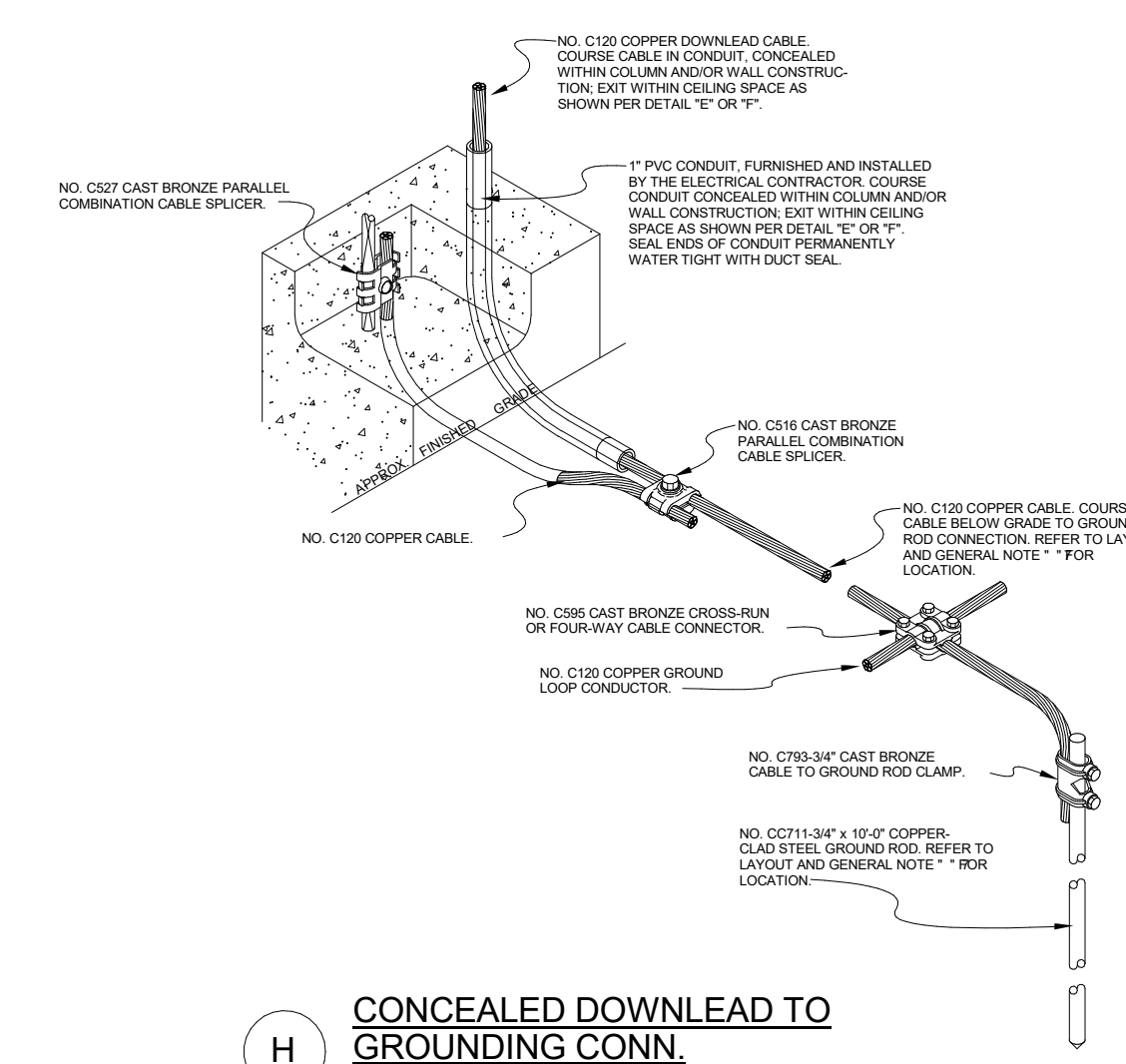
E THRU-ROOF CABLE CONN.
NOT TO SCALE



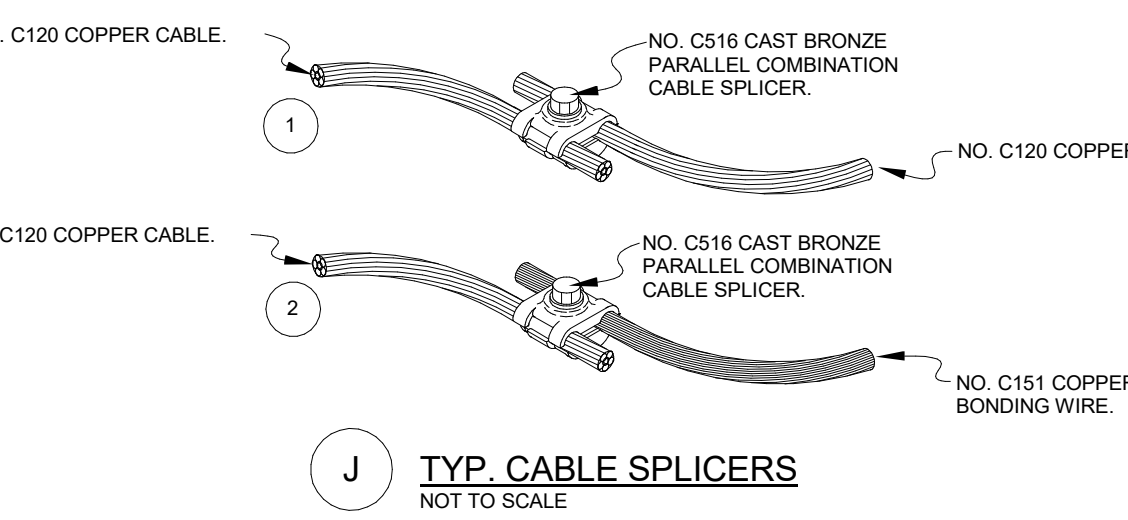
F THRU-ROOF CABLE PENE.
NOT TO SCALE



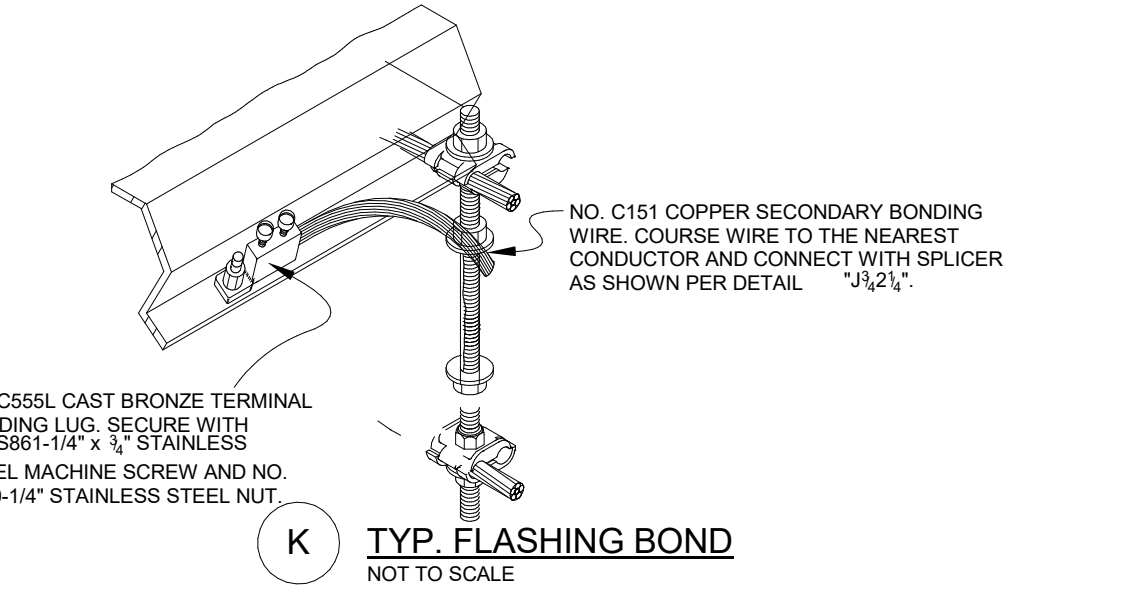
G CONCEALED DOWNLOAD TO LOWER ROOF
NOT TO SCALE



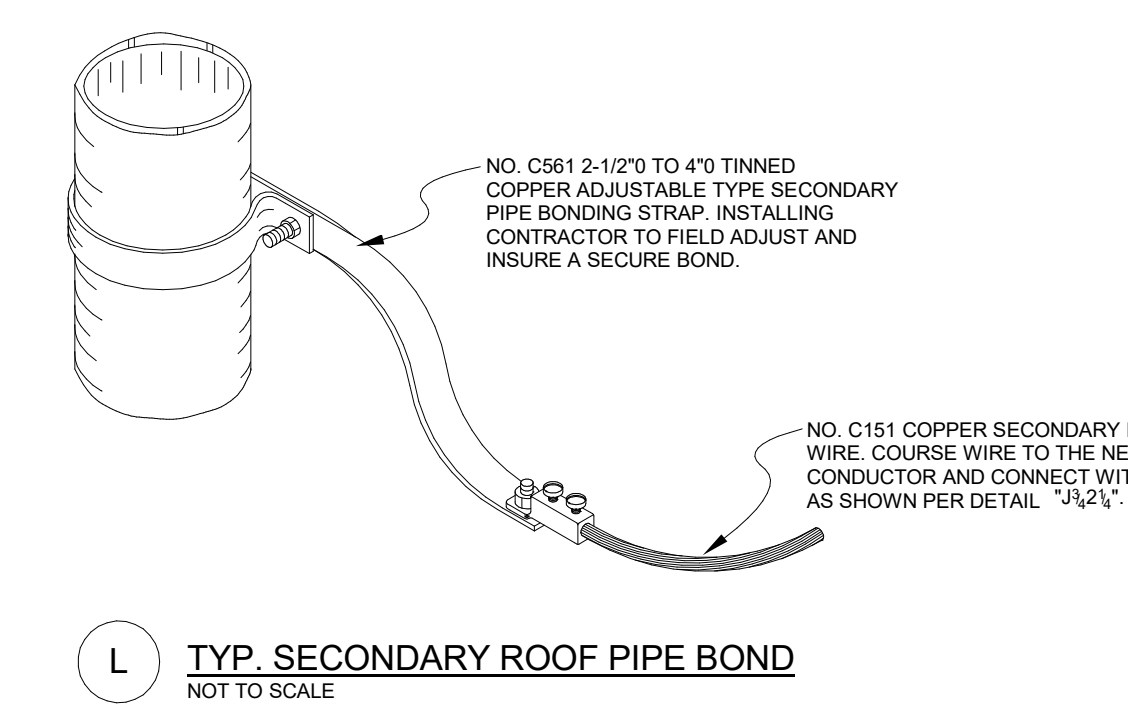
H CONCEALED DOWNLOAD TO GROUNDING CONN.
NOT TO SCALE



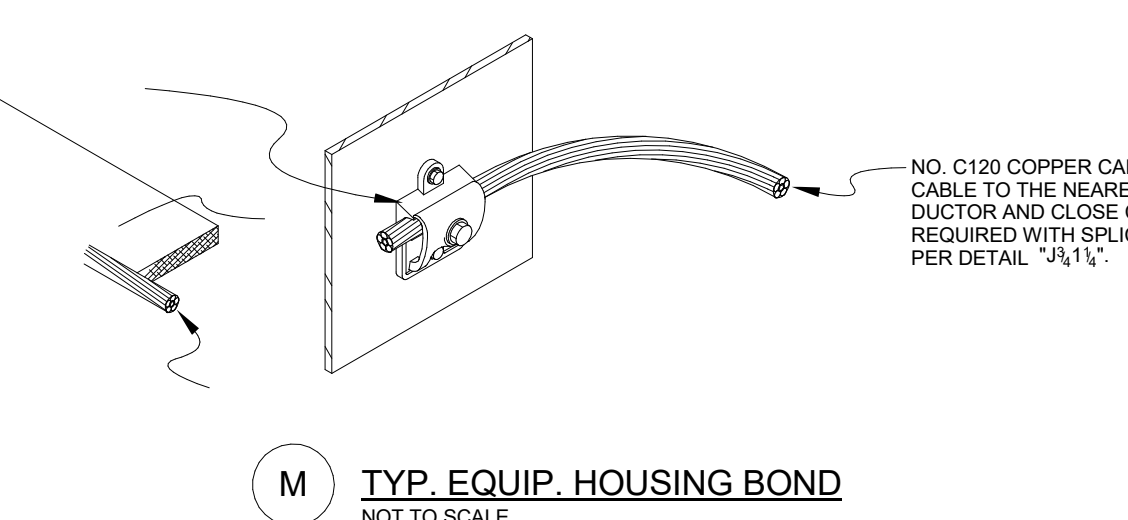
J TYP. CABLE SPLICERS
NOT TO SCALE



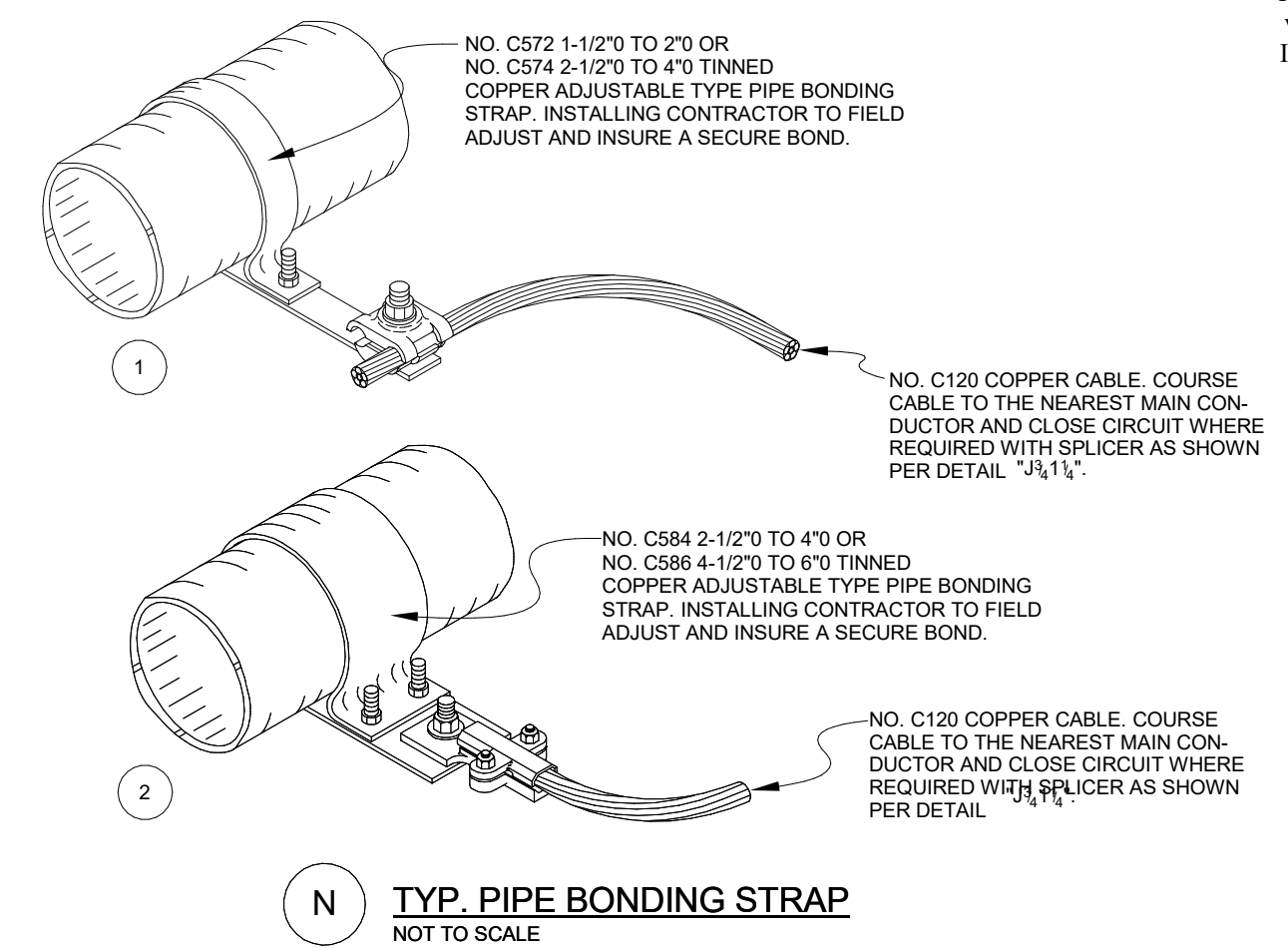
K TYP. FLASHING BOND
NOT TO SCALE



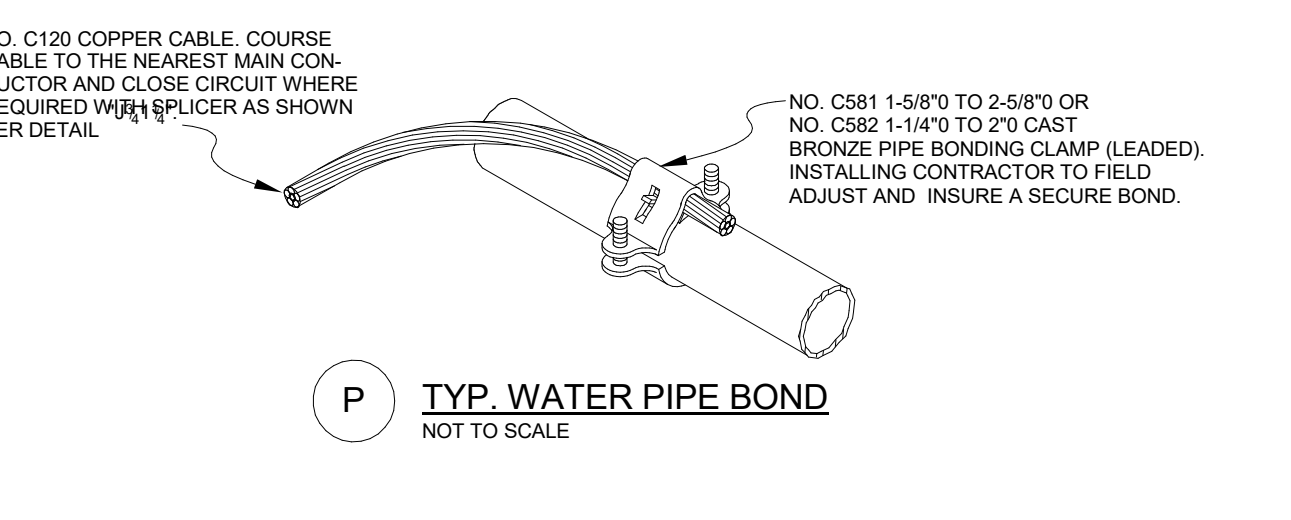
L TYP. SECONDARY ROOF PIPE BOND
NOT TO SCALE



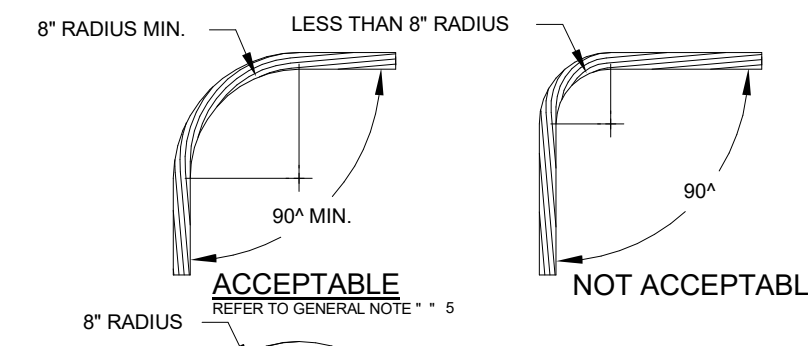
M TYP. EQUIP. HOUSING BOND
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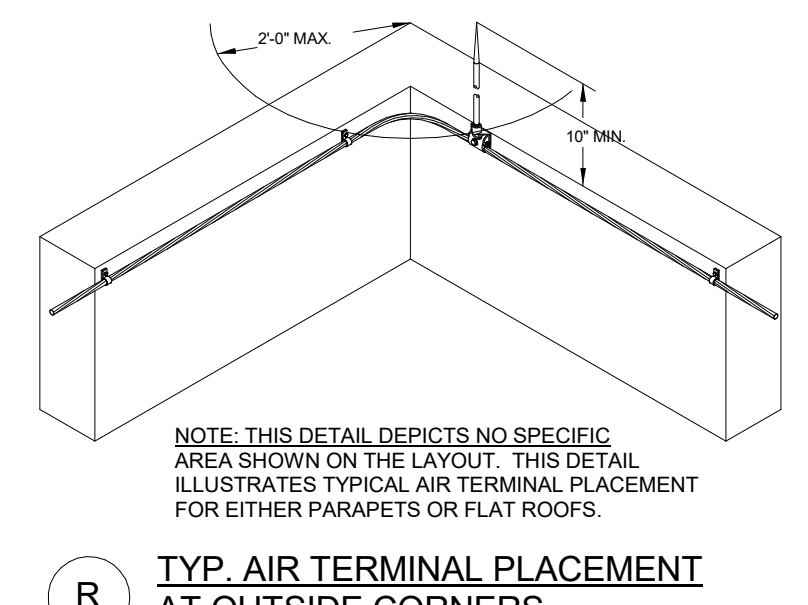
N TYP. PIPE BONDING STRAP
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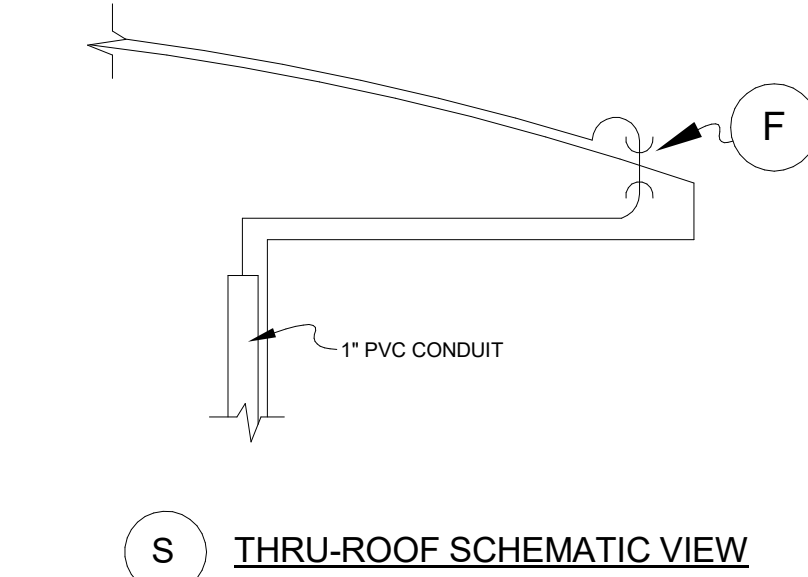
P TYP. WATER PIPE BOND
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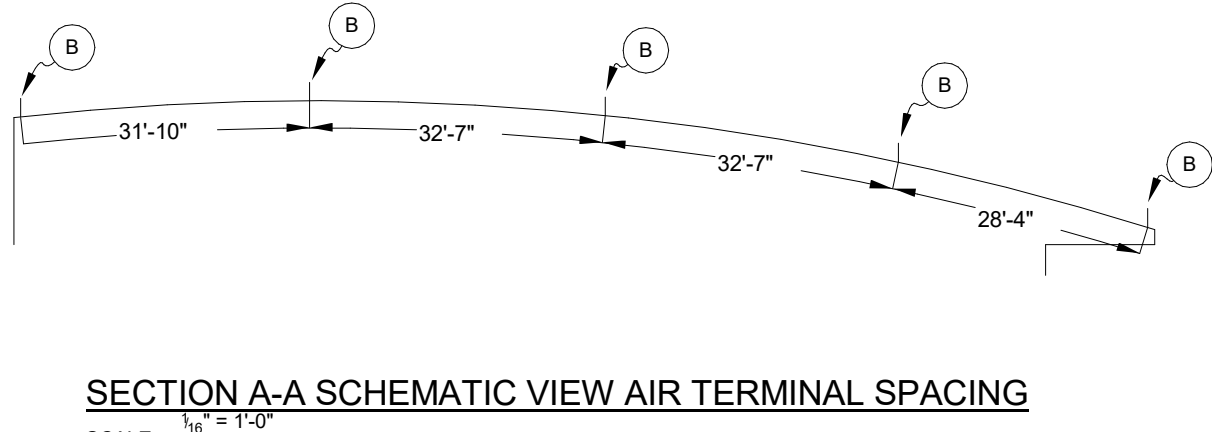
Q TYP. CABLE BEND REQUIREMENTS
NOT TO SCALE



R TYP. AIR TERMINAL PLACEMENT AT OUTSIDE CORNERS
NOT TO SCALE



S THRU-ROOF SCHEMATIC VIEW
NOT TO SCALE



SECTION A-A SCHEMATIC VIEW AIR TERMINAL SPACING
SCALE: 1/4\"/>

VOIP STRUCTURED CABLE LEGEND			
SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
◁ W	WALL MOUNT VOIP OUTLET (1 CAT 6 CABLE)	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	46"
◁ N	TECHNOLOGY OUTLET N= NUMBER OF CAT 6 CABLES	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	18"
◁ TV	CATV LOCATION (1 RG6 QUAD SHEILD COAXIAL, 1 CAT 6 CABLE)	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	72"
⊙	WIRELESS ACCESS POINT (1 CAT 6A CABLE) *	SINGLE PORT SURFACE MOUNT BOX	CEILING
◁ AV	AUDIO / VISUAL OUTLET	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	18"

ACCESS CONTROL LEGEND			
SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
◻ CR	CARD READER	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	48"
⊙ DC	DOOR CONTACT	N/A	TOP OF DOOR
◻ PIR	PASSIVE INFRARED DEVICE	N/A	CEILING
◻ REX	REQUEST TO EXIT	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	48"
⊙ DC	OVERHEAD DOOR CONTACT	4 X 4 SQ. 2-1/8" DEEP W/ COVER	18"
⊙ J	ACCESS CONTROL JUNCTION BOX	NEMA 8" X 8" X 4" WITH BLANK COVER	CEILING ABOVE DOOR

CCTV LEGEND			
SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
▷ C	FIXED CCTV CAMERA - CAT 6 CABLE	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	AS NOTED
⊙ (180)	180 DEGREE VIEW CAMERA - 1 CAT 6 CABLE	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	AS NOTED
⊙ (270)	270 DEGREE VIEW CAMERA - 1 CAT 6 CABLE	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	AS NOTED
⊙ (360)	360 DEGREE VIEW CAMERA - 1 CAT 6 CABLE	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	AS NOTED

AUDIO LEGEND			
SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
⊙	LOCUTION SPEAKER LOCATION - ROUGH-IN ONLY *	4 11/16 SQ. 2-7/8" DEEP 1-GANG RING	CEILING
⊙ 1	OVERHEAD AV SPEAKER		CEILING
◻ V	VOLUME CONTROL **	4 11/16 SQ. 2-7/8" DEEP 1-GANG RING	48"
◻ S	LOCUTION SPEAKER - ROUGH-IN ONLY	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	96" AFF
⊙ ID	INTERCOM DESK UNIT	PROVIDED BY INTERCOM CONT.	COUNTER / DESK
⊙ IF	INTERCOM FLUSH MOUNT UNIT	PROVIDED BY INTERCOM CONT.	48"
◻ RIO	LOCUTION ROUGH-IN ONLY OUTLET	4 11/16 SQ. 2-7/8" DEEP 2-GANG RING	AS NOTED
⊙ M	AUDIO VISUAL CEILING MICROPHONE	N/A	CEILING
▷ C AV	AUDIO VISUAL CAMERA	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	AS NOTED

* - CONTRACTOR SHALL ROUTE CONDUIT TO THE NEAREST ACCESSIBLE ACT CEILING.
 ** - CONTRACTOR SHALL ROUTE CONDUIT TO THE NEAREST ACCESSIBLE ACT CEILING FOR THE VOLUME CONTROLS NOT SHOWN TIED TO THE AV SPEAKERS.

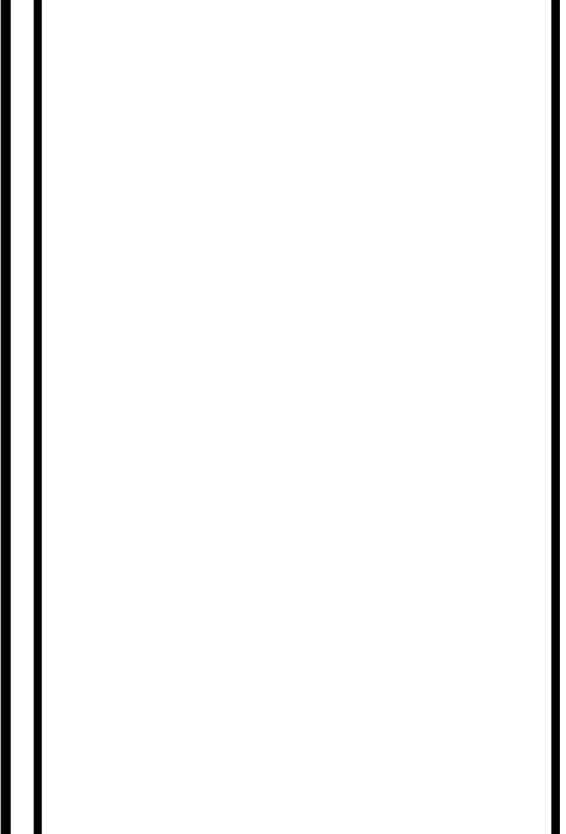
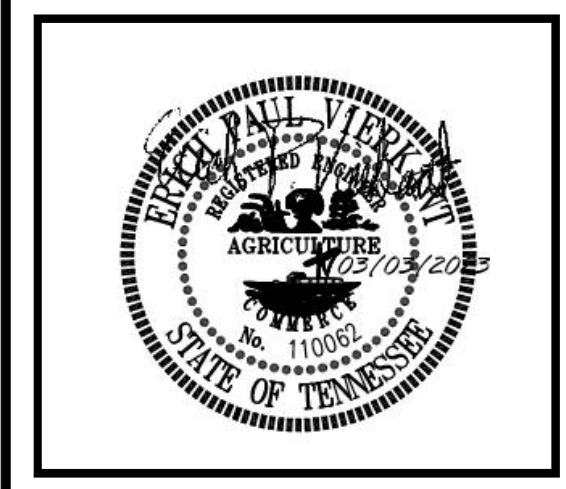


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 2950 KRAFT DRIVE
 NASHVILLE, TN. 37211
 PHONE: (615) 346-3400
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 ICT Project No. 220082

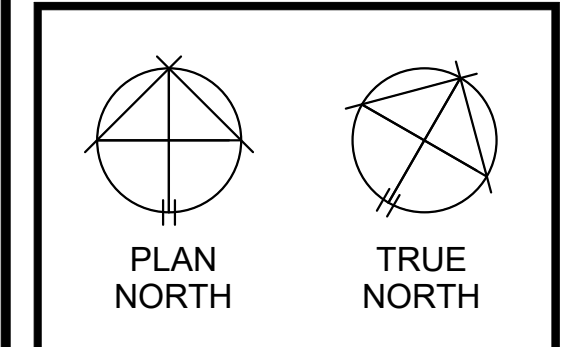
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 615.370.4147 Fax
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TOWN OF NOLENSVILLE
FIRE STATION #1
 7231 HALEY INDUSTRIAL DRIVE
 NOLENSVILLE, TENNESSEE



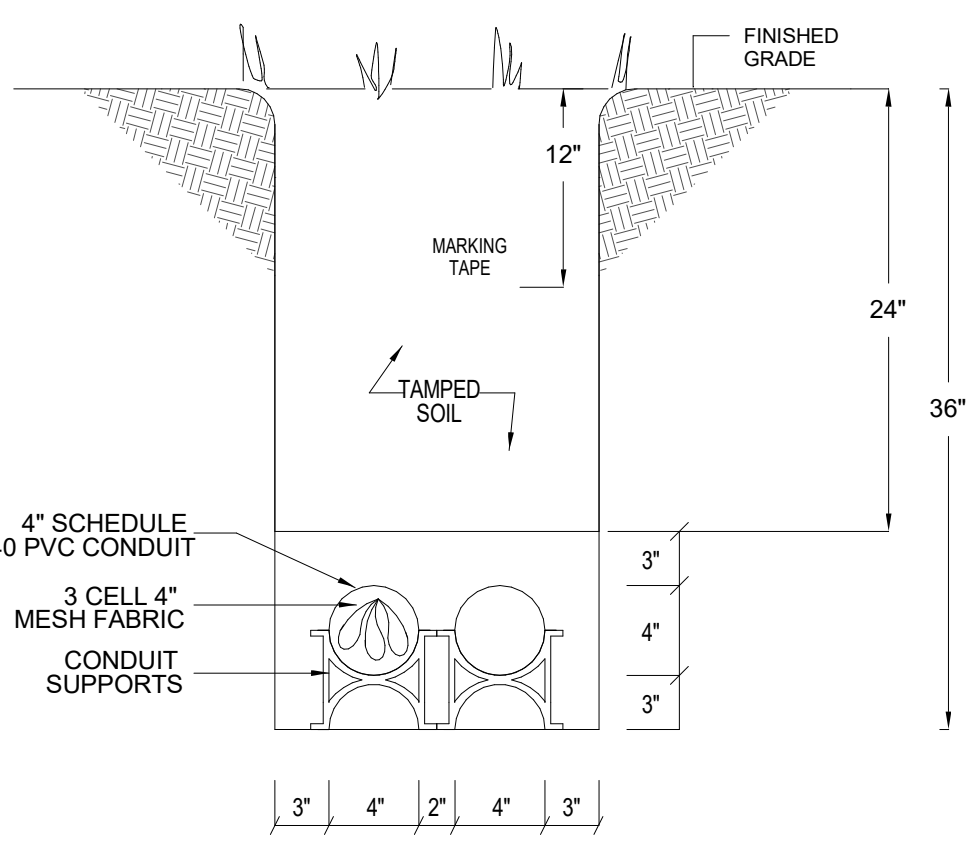
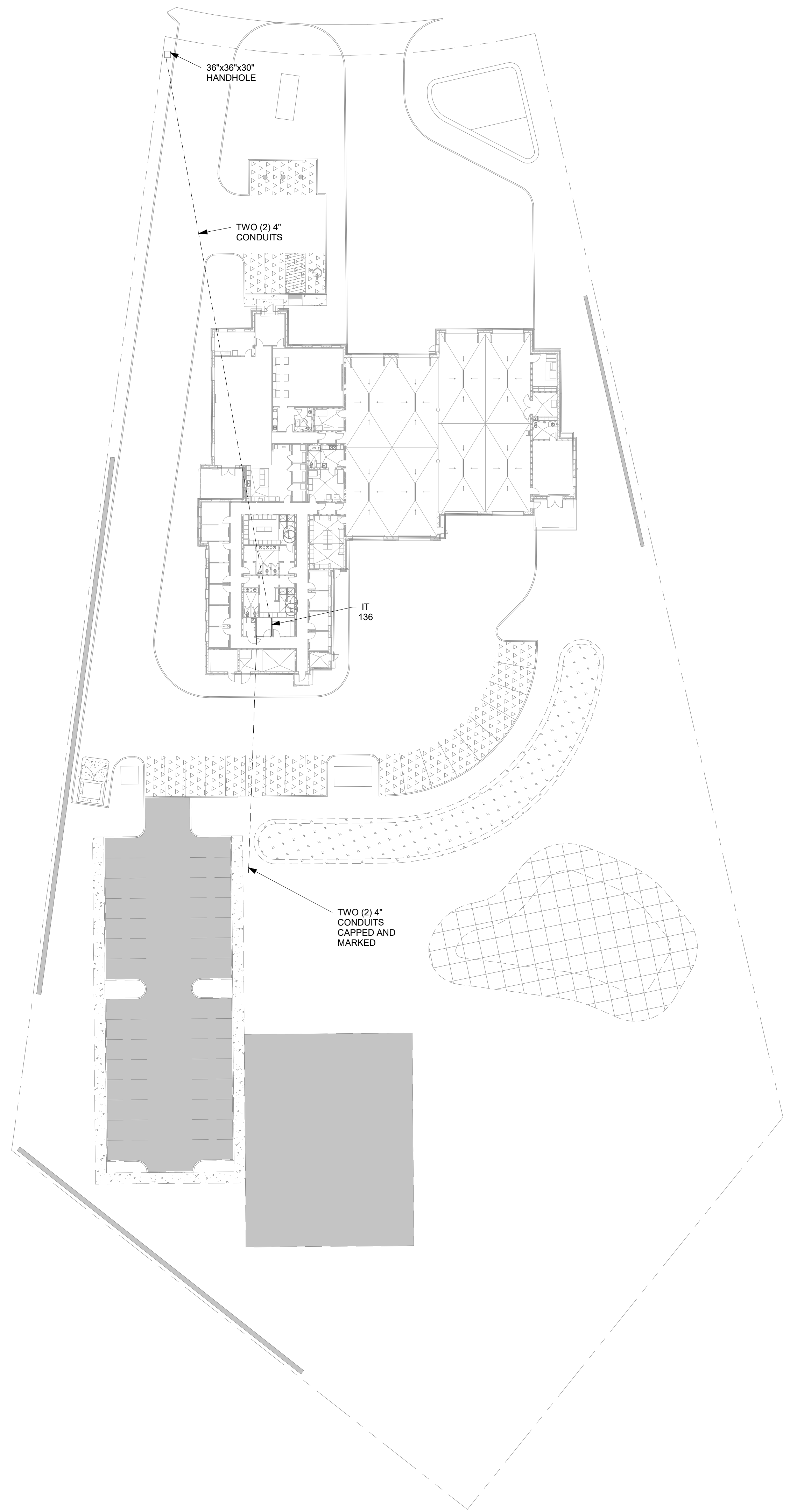
REVISIONS	

DR. BY	Author
CK. BY	Checker
PROJ. NO.	A01122
DATE	03/03/23
TECHNOLOGY - LEGEND	

T000

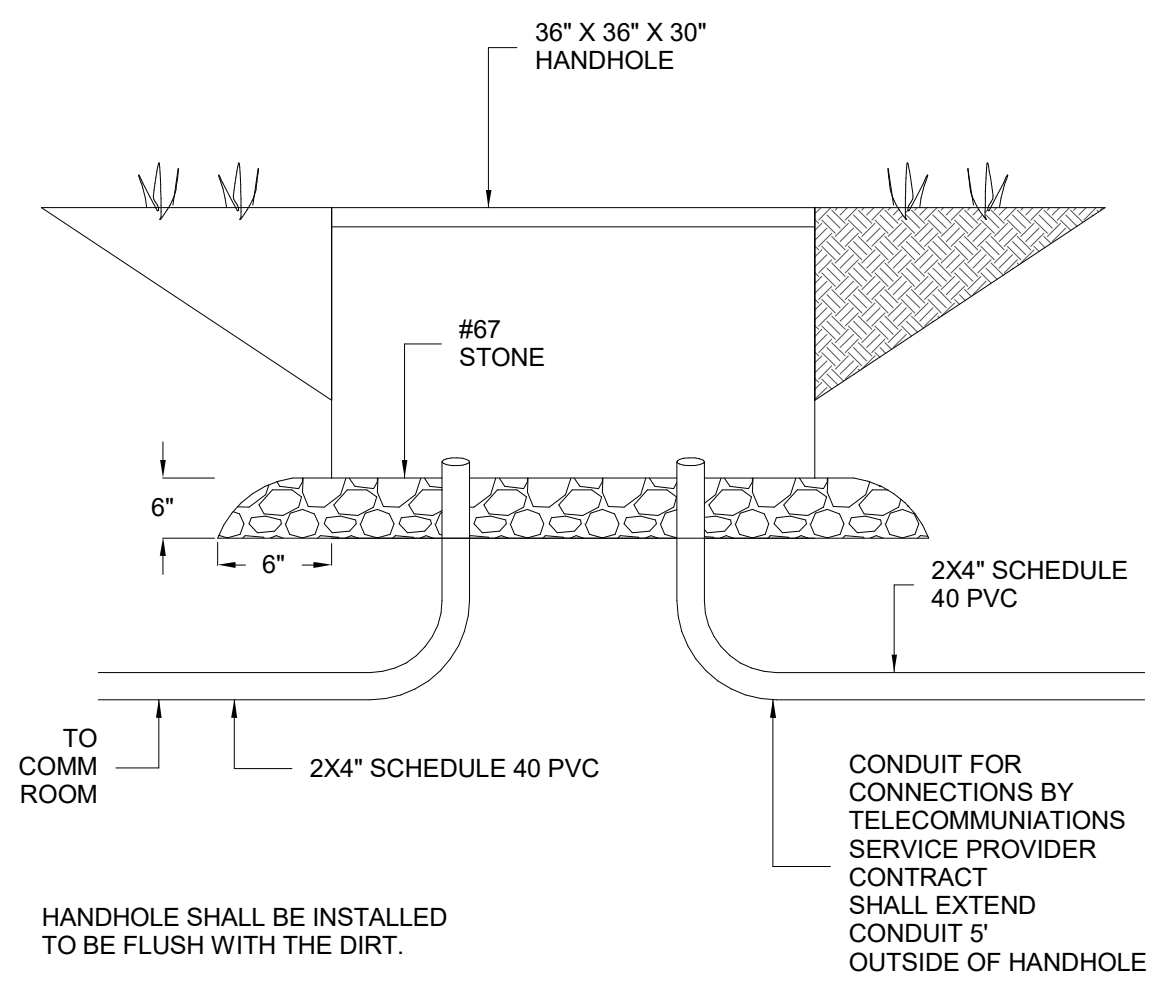
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TECHNOLOGY - SITE PLAN

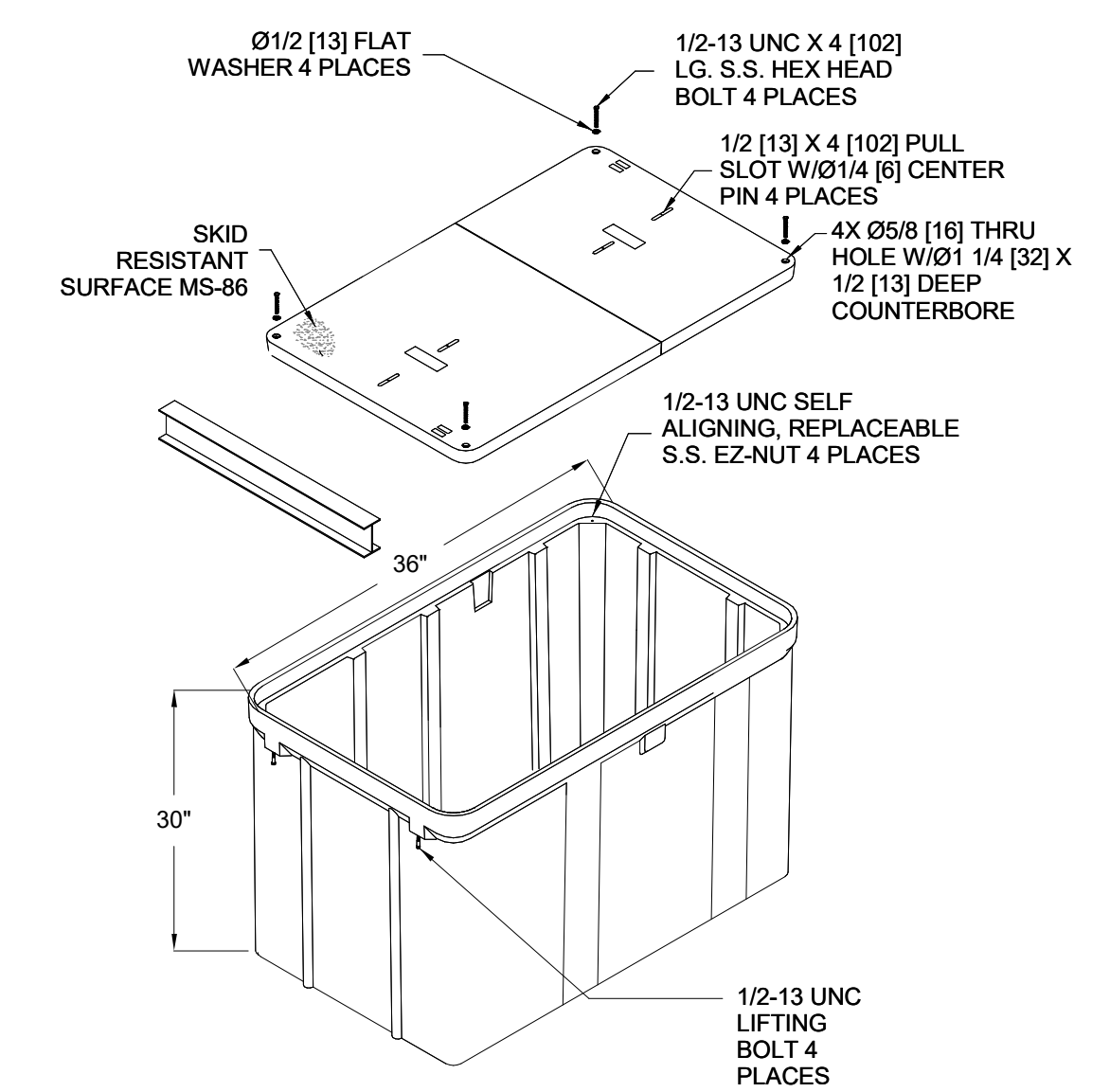


NOTE: CONTRACTOR SHALL INSTALL A 3 CELL 4\"/>

SECTION 2 WAY DUCT BANK DETAIL
No Scale 1



36\"/>

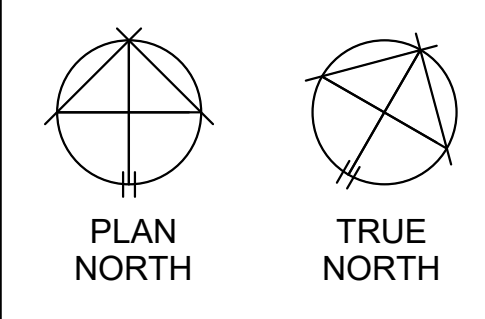


36\"/>

OSP DETAILS



**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**



NO.	DATE	DESCRIPTION

DR. BY	Author
CK. BY	Checker
PROJ. NO.	A01122
DATE	03/03/23
TECHNOLOGY - SITE PLAN	

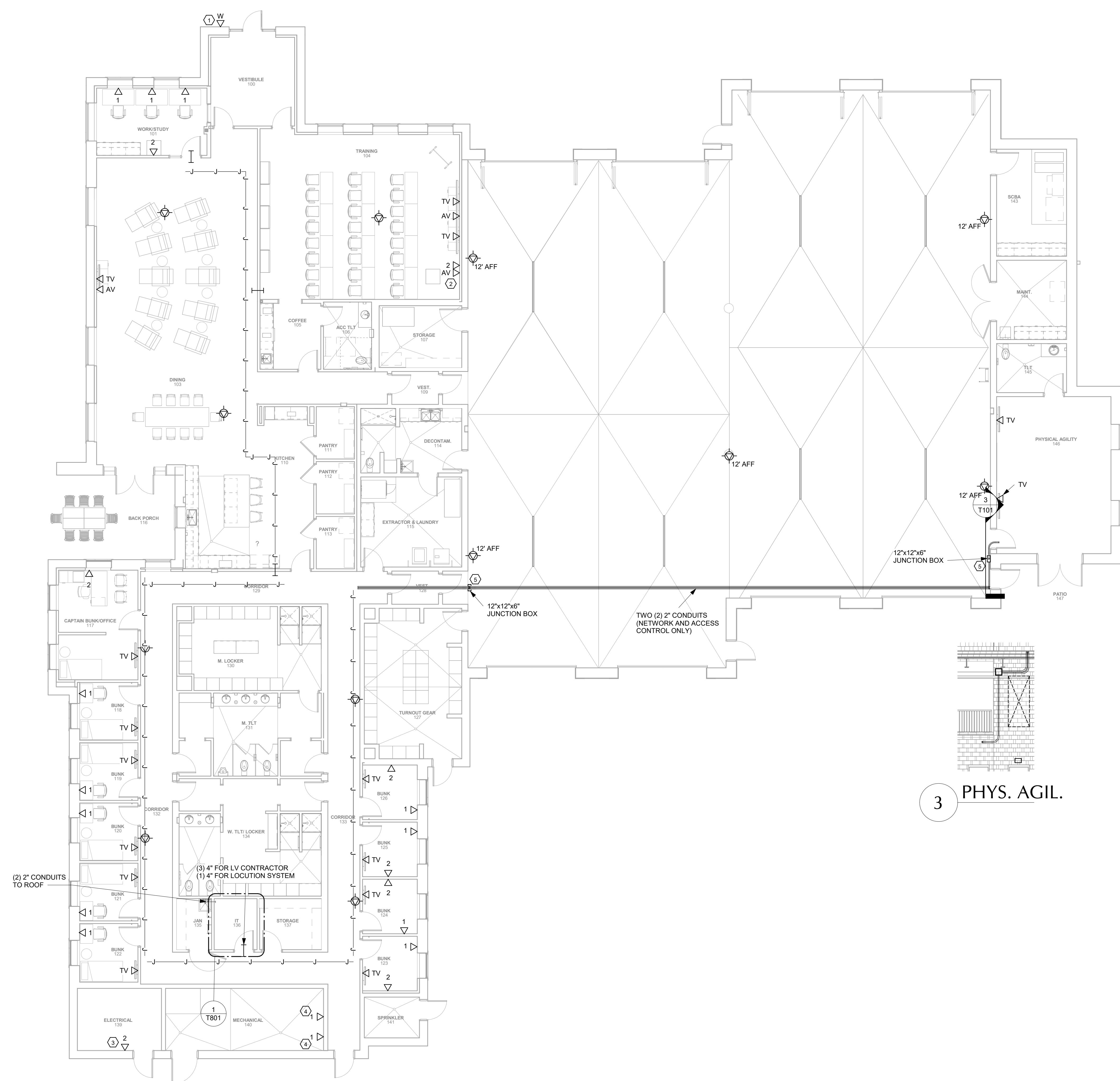
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KEYED NOTES:

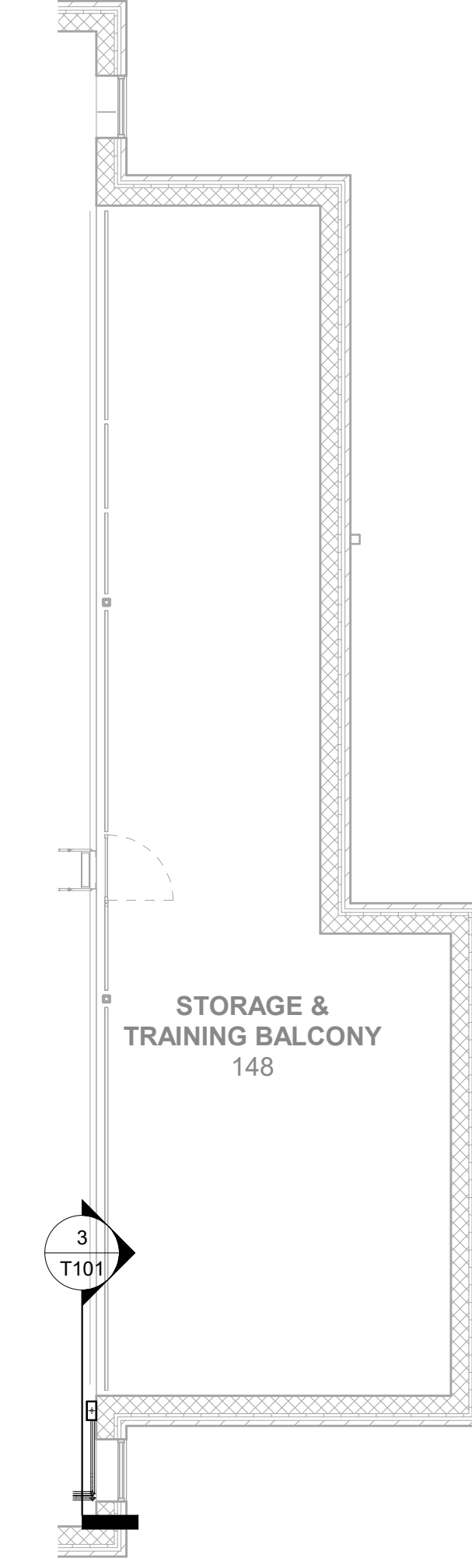
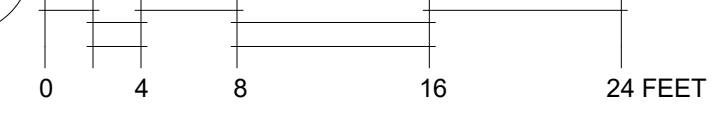
- 1. CONTRACTOR SHALL INSTALL A WEATHER PROOF NEMA ENCLOSURE FOR THE WALL PHONE.
- 2. CONTRACTOR SHALL INSTALL AN HDMI CONNECTION TO THE AV OUTLET AT THE CRENZIA. CONTRACTOR SHALL PROVIDE EQUIPMENT AND CABLE TO PROVIDE EACH TV WITH THE CAPABILITY OF HAVING DIFFERENT IMAGES ON EACH SCREEN.
- 3. CONTRACTOR SHALL COORDINATE OUTLET LOCATION WITH THE FIRE ALARM PANEL.
- 4. CONTRACTOR SHALL COORDINATE OUTLET LOCATION WITH THE MECHANICAL CONTRACTOR PRIOR TO ANY ROUGH-IN.
- 5. CONTRACTOR SHALL INSTALL AN ADDITIONAL 2" CONDUIT FROM THE BUILDING STEEL TO THE JUNCTION BOX, AND FROM THE JUNCTION BOX INTO THE ACCESSIBLE ACT CEILING AREA FOR LOCUTION SPEAKER CABLING ONLY.

GENERAL NOTES:

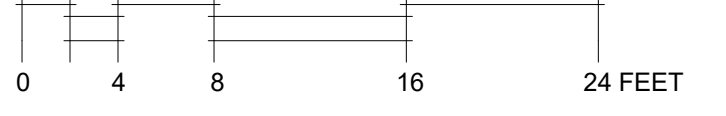
- A. CONTRACTOR SHALL INSTALL AN ADDITIONAL SET OF J-HOOKS TO BE USED BY THE LOCUTION SYSTEM VENDOR ONLY. PATHWAY SHALL BE CONSISTANT ACROSS THE PROJECT. (I.E. TOP OR BOTTOM SET OF J-HOOKS)
- B. ALL BUNK ROOM OUTLET CONDUITS SHALL ROUTE TO ABOVE THE ACT ACCESSIBLE CEILING IN THE CORRIDOR.



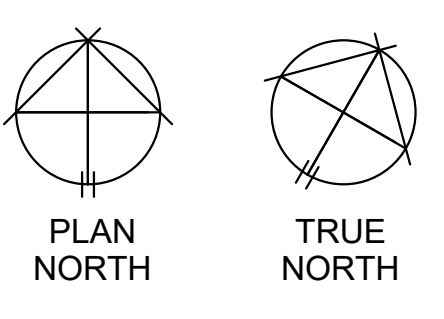
1 TECHNOLOGY - LEVEL 1 FLOOR PLAN



2 TECHNOLOGY - MEZZANINE FLOOR PLAN



**TOWN OF NOLENSVILLE
FIRE STATION #1
7231 HALEY INDUSTRIAL DRIVE
NOLENSVILLE, TENNESSEE**



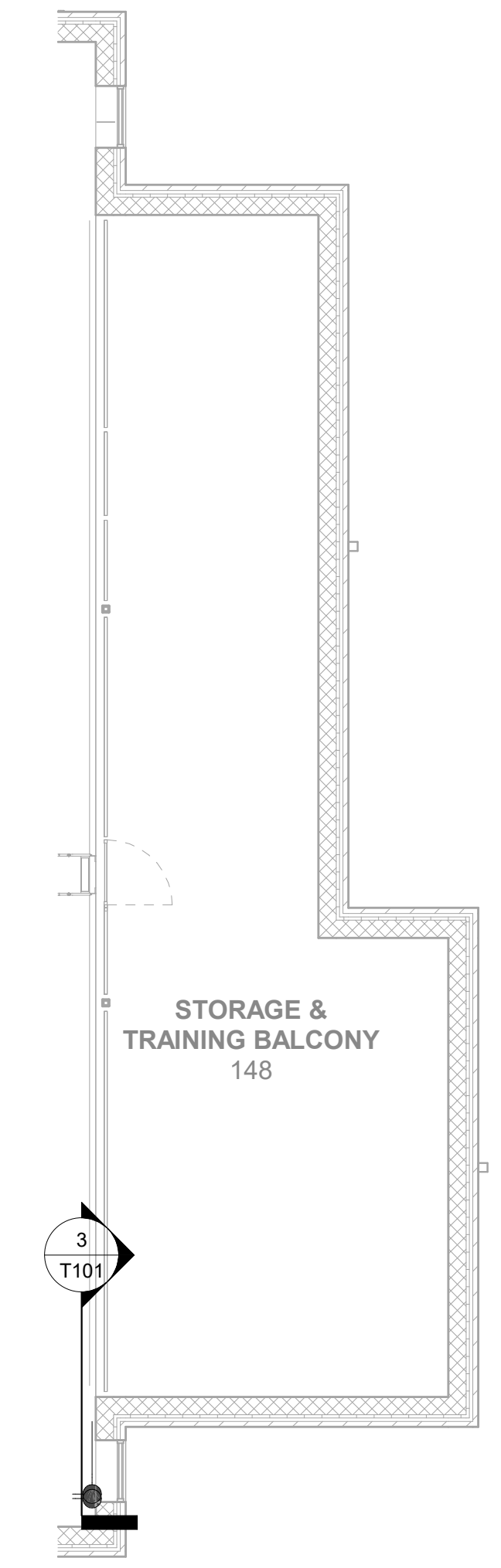
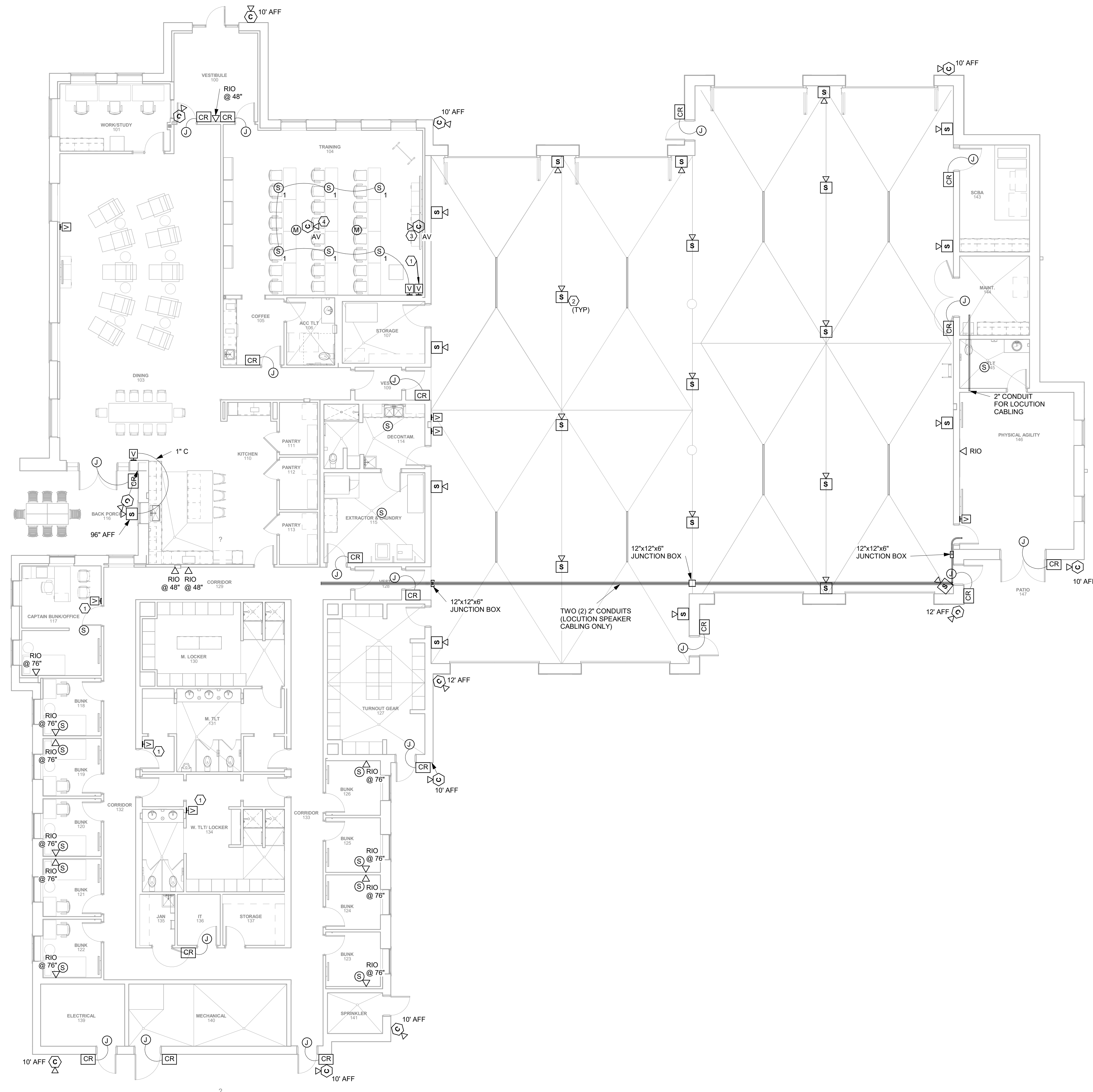
REVISIONS	

DR. BY	Author
CK. BY	Checker
PROJ. NO.	A01122
DATE	03/03/23
TECHNOLOGY - LEVEL 1 FLOOR PLAN	

T101



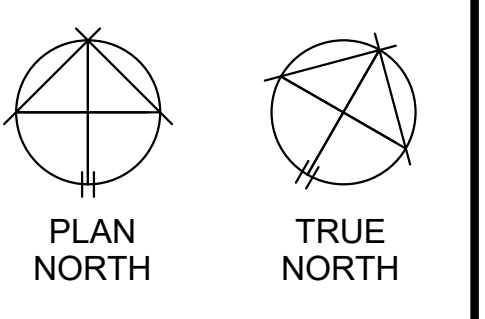
- KEYED NOTES:**
1. CONTRACTOR SHALL PROVIDE A 1" CONDUIT AND BACKBOX ONLY FOR LOCUTION SYSTEM WIRING PROVIDED BY OTHERS.
 2. CONTRACTOR SHALL INSTALL A 1" RIGID CONDUIT FROM THE BUILDING STEEL DOWN TO A BACKBOX AT 96" AFF FOR THE LOCUTION SPEAKER, (TYP FOR ALL BAY SPEAKERS NOT ON A WALL).
 3. CONTRACTOR SHALL PROVIDE AND INSTALL AN AV CAMERA AT THE CEILING TO CAPTURE THE PRESENTER AND PRESENTER WALL FOR VIRTUAL MEETINGS. ELECTRICAL CONTRACTOR AND AV CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE BACKBOX PRIOR TO ANY ROUGH-IN STARTING.
 4. CONTRACTOR SHALL PROVIDE AND INSTALL AN AV CAMERA AT THE TOP OF THE TV'S AT THE FRONT OF THE ROOM TO CAPTURE THE CLASS PARTICIPANTS. ELECTRICAL CONTRACTOR AND AV CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE BACKBOX PRIOR TO ANY ROUGH-IN STARTING.



1 SYSTEMS - LEVEL 1 FLOOR PLAN

2 SYSTEMS - MEZZANINE FLOOR PLAN

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SYSTEMS - LEVEL 1 FLOOR PLAN

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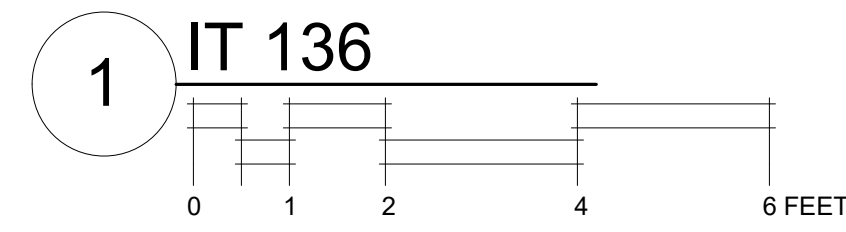
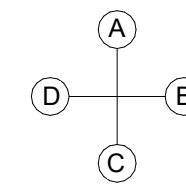
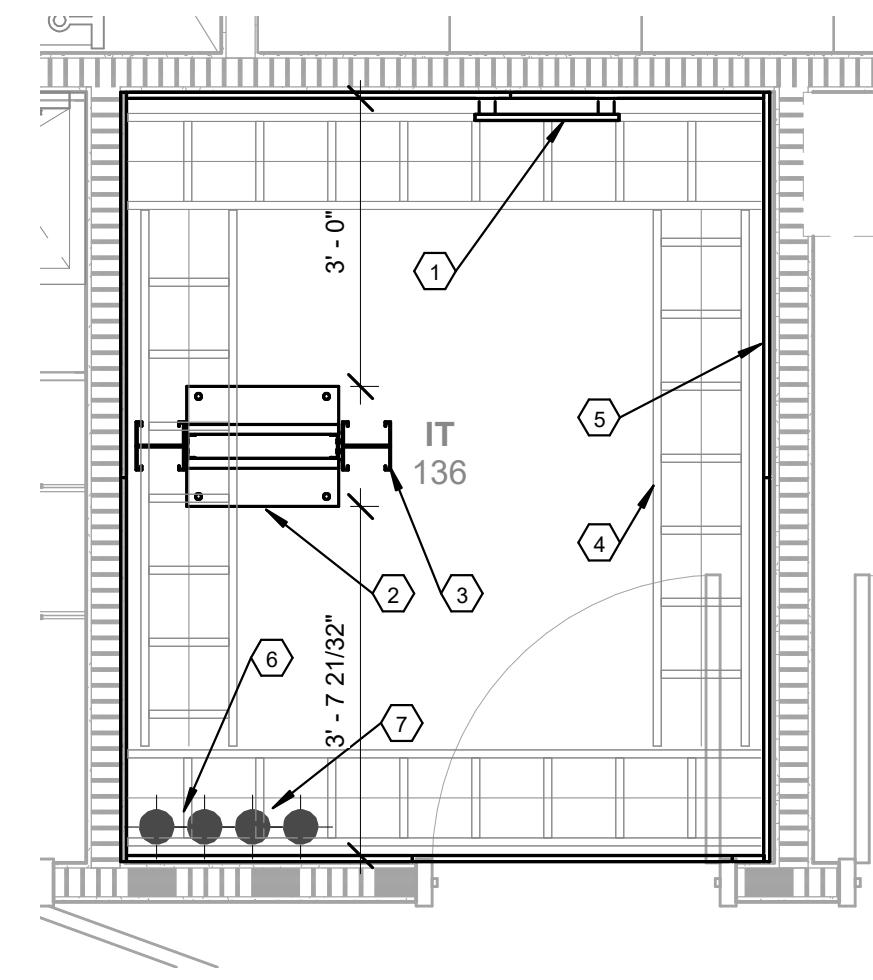
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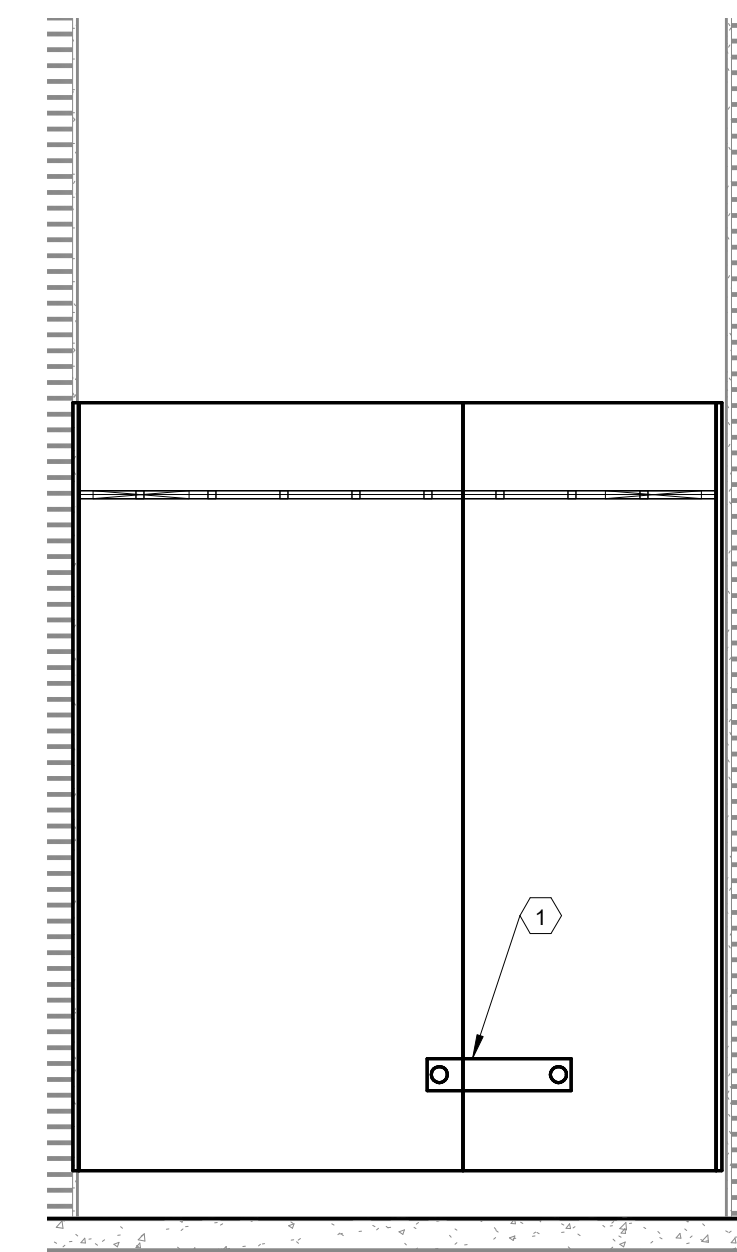


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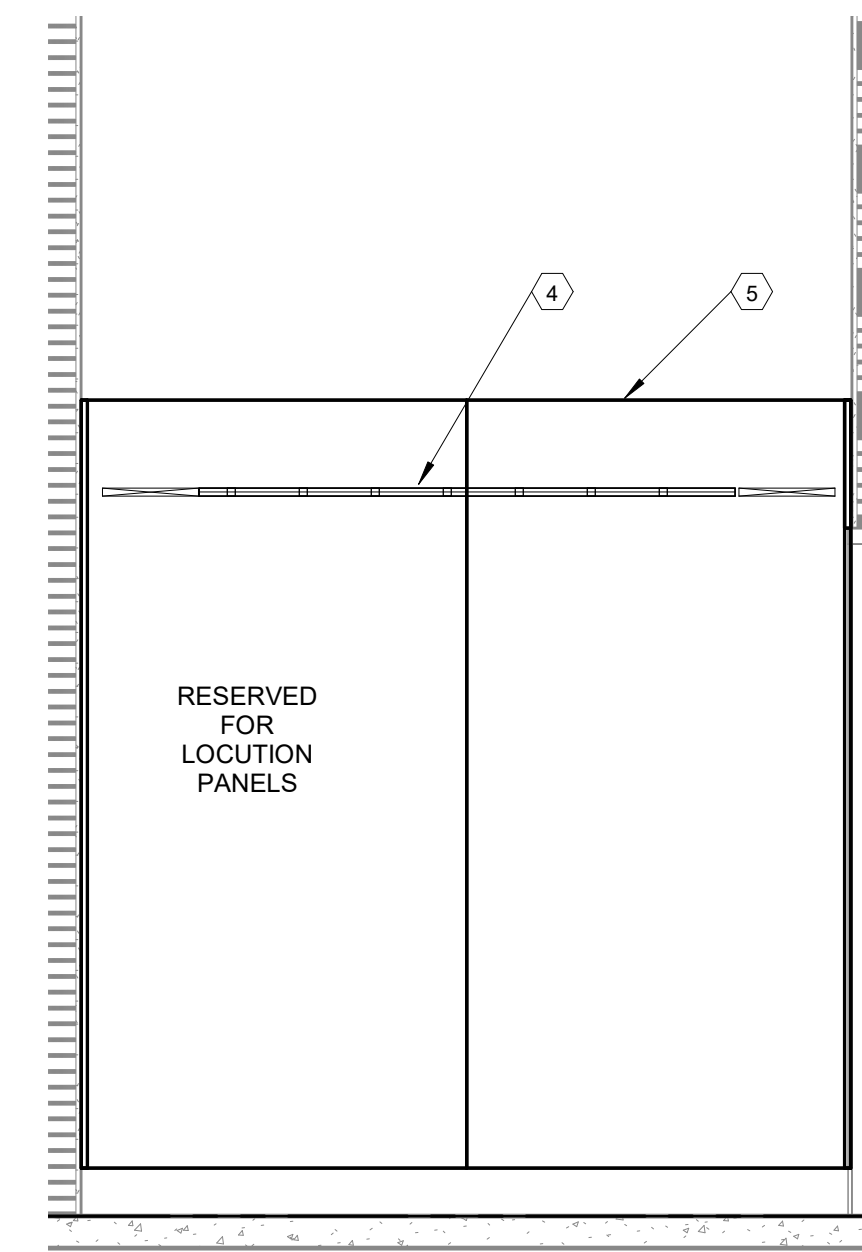
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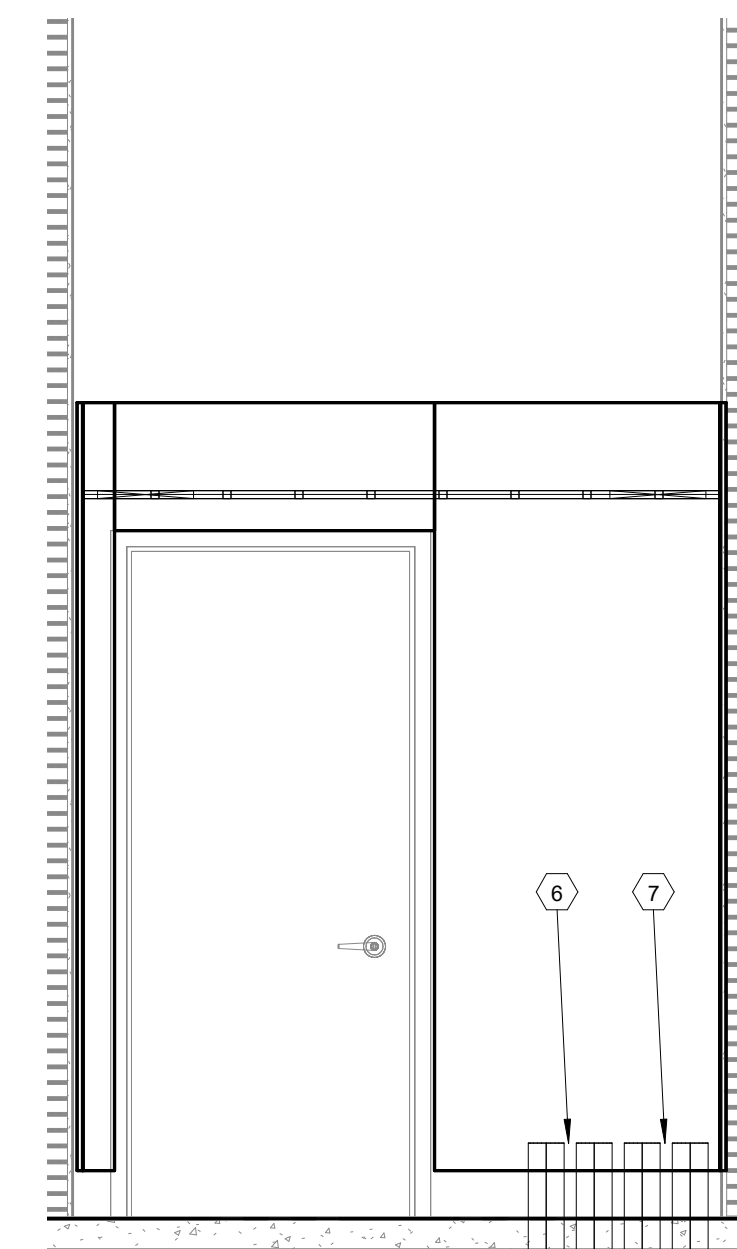
1 IT 136



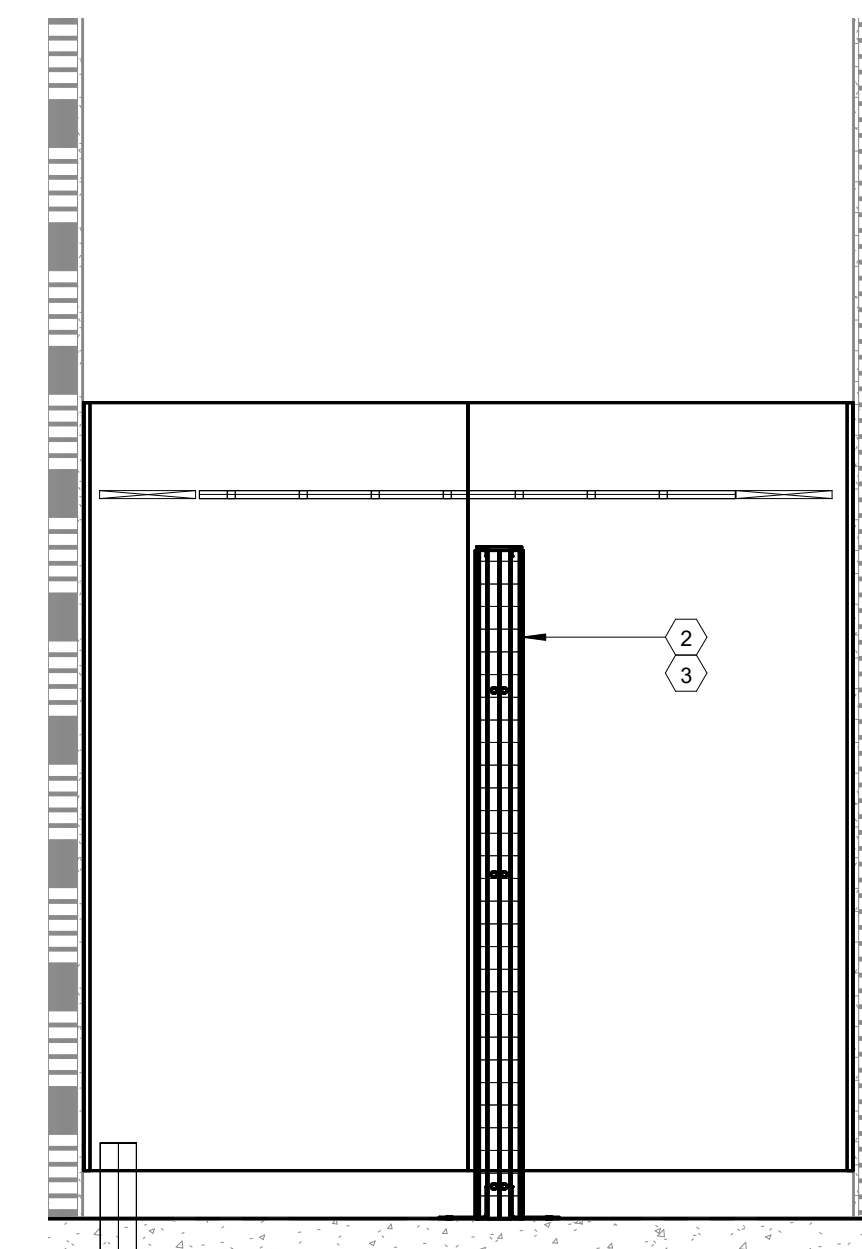
2 IT 136 VIEW A



3 IT 136 VIEW B



4 IT 136 VIEW C

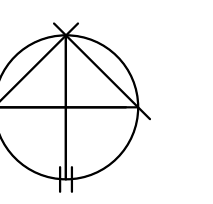


5 IT 136 VIEW D

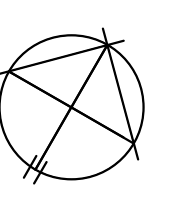
KEYED NOTES:

1. PRIMARY BONDING BUSBAR (PBB), MINIMUM 12" WIDE x 4" TALL.
2. STANDARD 2-POST 84" TALL RACK.
3. 6" WIDE, DUAL SIDED, VERTICAL WIRE MANAGER WITH COVERS.
4. 12" WIDE LADDER RACK MOUNTED AT 76" AFF. CONTRACTOR SHALL INSTALL A CABLE WATERFALL AT ANY LOCATION WHERE CABLES EXIT BELOW THE LADDER RACK.
5. WRAP ENTIRE ROOM IN 3/4" FIRE RETARDANT PLYWOOD, MOUNTED AT 6" AFF. CONTRACTOR SHALL INSTALL PLYWOOD ABOVE THE DOOR AS SHOWN.
6. TWO (2) 4" BUILDING SERVICE ENTRANCE CONDUITS.
7. TWO (2) 4" CONDUITS TO FUTURE ADMIN BUILDING.

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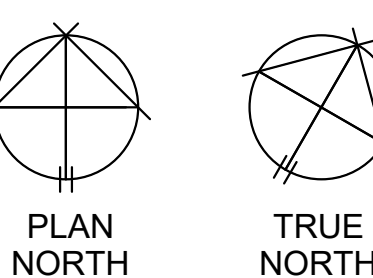
TECHNOLOGY -
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<p>ONE (1) CATEGORY 6 RJ45 JACK- ONE (1) SINGLE GANG FACEPLATE WITH MOUNTING LUGS</p> <p>MOUNT OUTLET AT 48" AFF UNLESS OTHERWISE NOTED</p>	<p>8"</p> <p>8"</p> <p>8"</p> <p>8"</p> <p>MAINTAIN 5" OF CLEARANCE AROUND EACH WALLPHONE OUTLET</p>	<p>TWO (2) CATEGORY 6 RJ45 JACKS- ONE (1) 4 PORT FACEPLATE TWO (2) BLANK-UP MODULES</p> <p>MOUNT OUTLET AT 18" AFF UNLESS OTHERWISE NOTED</p>	<p>THREE (3) CATEGORY 6 RJ45 JACKS- ONE (1) 4 PORT FACEPLATE ONE (1) BLANK-UP MODULE</p> <p>MOUNT OUTLET AT 18" AFF UNLESS OTHERWISE NOTED</p>
<p>WALL MOUNT VOICE TELECOMMUNICATIONS OUTLET DETAIL No Scale</p>	<p>WALL MOUNT TELEPHONE DETAIL No Scale</p>	<p>DUPLEX TELECOMMUNICATIONS OUTLET DETAIL No Scale</p>	<p>TRIPLEX TELECOMMUNICATIONS OUTLET DETAIL No Scale</p>
<p>FOUR (4) CATEGORY 6 RJ45 JACKS- ONE (1) 4 PORT FACEPLATE</p> <p>MOUNT OUTLET AT 18" AFF UNLESS OTHERWISE NOTED</p>	<p>ONE (1) COAXIAL COUPLING -F CONNECTOR TYPE-</p> <p>MOUNT OUTLET AT 70" AFF UNLESS OTHERWISE NOTED</p>	<p>SURFACE MOUNT COMMUNICATIONS OUTLET: ONE (1) CAT 6 RJ45 JACK ONE (1) SINGLE PORT SURFACE MOUNT HOUSING</p>	<p>WIRING TO HEAD END NEMA BOX (8"x8") ACCESSIBLE CEILING SECURED SIDE CEILING 1078 DOOR CONTACT ELECTRIC RIM EXIT WITH REX POWER TRANSFER HINGE SINGLE GANG BOX FOR POWER TRANSFER HINGE RIM ELECTRIC STRIKE FLOOR PATH OF EGRESS 48" UNSECURE SIDE (CARD READER SIDE) SECURE SIDE</p> <p>NOTE: ALL DEVICES 1/2" FLEX/EMT UNLESS OTHERWISE NOTED.</p>
<p>QUAD TELECOMMUNICATIONS OUTLET DETAIL No Scale</p>	<p>CATV OUTLET DETAIL No Scale</p>	<p>TYPICAL SURFACE MOUNT BOX DETAIL No Scale</p>	<p>SINGLE DOOR, ELECTRIFIED CYLINDRICAL LOCK, FAIL SECURE, INTEGRATED REX No Scale</p>
<p>WIRING TO HEAD END NEMA BOX (8"x8") ACCESSIBLE CEILING SECURED SIDE MAGNETIC LOCK 1/2" (TYP) DOOR CONTACT/DPS VERTICAL ROD EXIT HARDWARE PWR. XFER HINGE PATH OF EGRESS 48" UNSECURE SIDE (CARD READER SIDE) SECURE SIDE</p> <p>NOTE: ALL DEVICES 1/2" FLEX/EMT UNLESS OTHERWISE NOTED.</p>	<p>J-HOOK CAT 6A UTP CABLE CONDUIT TO ABOVE ACCESSIBLE CEILING INTERFACE BOX 1/2" CONDUIT MASONRY BOX CAMERA</p>		
<p>DOUBLE DOOR, MAGNETIC LOCK X 1, 1 EXIT BAR W/REX, 2X VERTICAL RODS, LOCAL P/S, No Scale</p>	<p>TYPICAL EXTERIOR FIXED MOUNT CCTV CAMERA DETAIL No Scale</p>		

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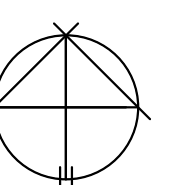
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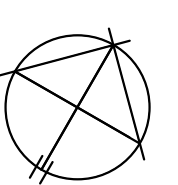


<p>★ COMPRESSION FITTINGS ONLY</p>			
<p>PRIMARY BONDING BUSBAR DETAIL (PBB) No Scale</p>	<p>LADDER RACK TO LADDER RACK BONDING DETAIL No Scale</p>	<p>LADDER RACK TO WALL BRACKET DETAIL No Scale</p>	<p>LADDER RACK TO RELAY RACK DETAIL No Scale</p>
<p>STANDARD 19\"/> </p>	<p>RELAY RACK STANDARD ANCHORING DETAIL No Scale</p>	<p>CHATSWORTH RADIUS DROP CROSS MEMBER PART # 14304 - X12 No Scale</p>	<p>WATERFALL CABLE MANAGER FOR LADDER RACK DETAIL No Scale</p>
<p>WATERFALL CABLE MANAGER FOR LADDER RACK DETAIL No Scale</p>			

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