



ADDENDUM # 1

Date: 12/8/2023

PROPOSAL ID #2904

RFQ #2904 Crowders Creek Pump Station Replacement Project

THE FOLLOWING INFORMATION SHALL BE INCORPORATED AS PART OF THE ABOVE MENTIONED SOLICITATION; ALL OTHER TERMS AND CONDITIONS SHALL REMAIN THE SAME.

Change 1: Delete Professional Services Selection Chart requirement as defined in Section 1.1.

Change 2: Replace requirement for 16" RCP on C102 to 16" DIP. 16" DIP shall be used for pipe shown in SD-6 on sheet C403. Change all references accordingly.

Change 3: Replace language regarding callouts on sheet C202 to read: TYPE A REMOVABLE GUARD RAIL WITHIN LIMITS OF FENCE SEE DETAIL B1 ON SHEET C703".

Change 4: Change abandonment of pump station notes as follows: Add note 1.A: TRANSFER ALL CONTENTS OF EXISTING PUMP STATION TO NEW STATION. CLEAN STRUCTURES BEFORE DEMOLITION. TRANSFER FLUSH WATER TO NEW STATION. Add at the end of Note 5: "DO NOT BURY BELOW OR WITHIN 1:1 INFLUENCE ZONE OF STRUCTURES OR PAVEMENT." Change Note 6 to read: "FILL ALL VOIDS. BACKFILL TO WITHIN 8 INCHES OF FINISHED GRADE WITH SUITABLE FILL (12" LIFTS) AND COMPACT PER SPECIFICATION 312000 SECTION 3.15 C."

Change 5: Delete Note 8 on Detail 1 (Combination Air Release, Air/Vacuum Valve) of Sheet C701 regarding ARV vaults.

Change 6: Replace Bid Form with the revised Bid Form provided in Addendum #1.

Change 7: Add the attached Specification Section 061753 (Shop-Fabricated Wood Trusses) to the Project Manual

Change 8: Add the attached Outside Drop Manhole detail to Sheet C704

Change 9: Replace the following Structural Sheets, which are clouded with updates: S202, S206, S400, S711, S712, S720, S740, S810, S812, S820, S821

REVISED
BID FORM

Crowders Creek Pump Station Replacement

Submitted: _____, 20____

York County Government
6 South Congress Street
York, SC 29745

Sir or Madam:

The undersigned, as Bidder, hereby declares that the only person or persons interested in the Bid, as principal or principals, is or are named herein and that no other person than herein mentioned has any interest in the Bid of the Contract to which the work pertains; that this Bid is made without connection or arrangement with any other person, company, or parties making a bid or proposal and that the Bid is in all respects fair and made in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the Work and, through personal knowledge and experience and/or subsurface investigations, has fully satisfied himself in regard to all conditions pertaining to such site and he assumes full responsibility therefore; that he has examined the Drawings and Specifications for the Work and from his own experience or from professional advice that the Drawings and Specifications are sufficient for the Work to be done; that he has examined the other Contract Documents and all addenda relating thereto, and that he has satisfied himself fully, relative to all matters and conditions with respect to the Work to which this Bid pertains.

The Bidder proposes and agrees, if this Proposal is accepted, to contract with York County Government (OWNER) in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, transportation and labor and to perform all work necessary to complete the Work specified in the Bid and other Contract Documents.

The Bidder further proposes and agrees to commence substantial work on this project within 15 days of a Notice to Proceed and agrees that the Work will be completed and ready for final payment **within 630 days** of the Notice to Proceed.

The Bidder further agrees that the deductions for liquidated damages, as stated in the Agreement and General Conditions, constitute fixed, agreed, and liquidated damages to reimburse the OWNER for additional costs to the OWNER resulting from the Work not being completed within the time limit stated in the Contract Form. The liquidated damages shall be \$1000.00 for each consecutive calendar day thereafter.

The Bidder further agrees to execute a Contract and furnish satisfactory Performance and Indemnity and Payment Bonds, and the required Certificates of Insurance, within ten consecutive calendar days after receipt of Notice of Award of the Contract, and the undersigned agrees that in case of failure on his part to execute the said Contract and Performance and Indemnity and Payment Bonds within the ten (10) consecutive calendar days after the award of the Contract, the Bid guarantee accompanying his Bid and the money payable thereon shall be paid to the OWNER as liquidation of damages sustained by the OWNER; otherwise, the Bid guarantee shall be returned to the undersigned after the Contract is signed and the Performance and Indemnity and Payment Bonds are filed.

Acknowledgement is hereby made of the following Addenda received since issuance of the Bid Documents:

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Note:

All work performed by the Contractor as essential to the completion of the intent of the Contract Documents shall be paid in accordance with the Bid Schedule. No direct payment will be made for work performed which is not shown as a

separate Bid Item. The undersigned proposes the following unit prices to be utilized on the Work or Extra Work should modifications or variations incorporate these items of work into the Work.

REVISED
Bid Form

Crowders Creek Pump Station Replacement

BASIS OF BID

Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

A. LUMP SUM for all Work, except for Bid Items listed separately: Contractor acknowledges that their Bid includes all items in the Contract Documents necessary and called for or reasonably inferred by the Contract Documents, and **no additional payment or change orders will be allowed for such items**. Should Contractor believe that an item necessary and called for or reasonably inferred by the Contract Documents is not included in a Unit Price item, the value of that item shall be included in the "LUMP SUM for all Work, except for Bid Items listed separately". Payment for this line item shall be made on the basis of an approved breakdown provided in the Contractor's Schedule of Values.

in numerals: \$ _____

in words: _____

_____ dollars

A.1. UNIT PRICES: The undersigned bidder also declares that the scope of the work may be either increased or decreased on the order of the Engineer and the Contract amount shall be adjusted in accordance with the following unit prices as applicable.

Unit prices quoted for each item shall include the cost of materials, labor, equipment, overhead, profit, and all else that is required to provide a complete project.

Item 1: Mobilization, lump sum of _____

_____ Dollars (\$ _____).

Item 2: Pump Station Structure, lump sum of _____

_____ Dollars (\$ _____).

Item 3: Pump Station Site, lump sum of _____

_____ Dollars (\$ _____).

Item 4: For furnishing, installing, and testing, complete in place, **20" RJ DIP Force Main Sewer Pipe, Class 250, with Bedding** as specified, at the price and estimated quantity as follows:

3,560 LF at \$ _____ /LF = \$ _____

Item 5: For the installation of, complete in place, **30" O.D. Steel Pipe Casing (0.375-inch thick)** as specified, at the price and estimated quantity as follows:

95 LF at \$ _____ /LF = \$ _____

Item 6: For the installation of, complete in place, **Air/Vacuum Release Valve and Manhole** as specified, at the price and estimated quantity as follows:

3 Ea. at \$ _____ /Ea. = \$ _____

Item 7: For furnishing and installing, complete in place, **Erosion and Sediment Controls**, as shown on the drawings, at the price, as follows:

1 L.S. at \$ _____ /L.S. = \$ _____

A.1. UNIT PRICE TOTAL (Items 1 thru 7):

_____ Dollars (\$_____).

B. ROCK

B.1. Additive for Jack-and-Bore in ROCK, per linear foot (L.F.):

Est. 50 L.F. @ \$ _____ / L.F.
(numerals)

(_____ / L.F.) × 50 = _____
(words) *(numerals)*

TOTAL BASE BID AMOUNT (LUMP SUM "A" + Total of Items A.1. and B.1.):

in numerals: \$ _____

in words: _____
_____ Dollars

Attached here to is a cashier's check on the _____
Bank of _____ or Bid Bond for the sum _____
_____ Dollars (\$ _____), made payable to _____
_____ (Owner)

_____ L.S.
(Name of Bidder) (Affix Seal)

_____ L.S.
(Signature of Officer)

_____ L.S.
(Title of Officer)

Address:

P.O. Box _____ Street: _____

City: _____ State, Zip Code: _____

Telephone: _____ Fax: _____

Federal ID#: _____

Email address: _____

Contractor License type: _____ Contractor License number: _____

License status: _____ Expiration: _____

Classification: _____

The full names and residences of persons and firms interested in the foregoing bid, as principals, are as follows:

Name of the executive who will give personal attention to the work:

Attach list of subcontractors as required by Article 13.4 of Information to Bidders.

END OF SECTION

SECTION 061753 - SHOP-FABRICATED WOOD TRUSSES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Wood products.

1.2 DEFINITIONS

- A. Metal-Plate-Connected Wood Trusses: Planar structural units consisting of metal-plate-connected members fabricated from dimension lumber and cut and assembled before delivery to Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For wood-preservative-treated lumber, metal-plate connectors, metal truss accessories, and fasteners.

1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification from treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
2. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to truss fabricator.

- B. Shop Drawings: Show fabrication and installation details for trusses.

1. Show location, pitch, span, camber, configuration, and spacing for each type of truss required.
2. Indicate sizes, stress grades, and species of lumber.
3. Indicate locations, sizes, and materials for permanent bracing required to prevent buckling of individual truss members due to design loads.
4. Indicate type, size, material, finish, design values, orientation, and location of metal connector plates.
5. Show splice details and bearing details.

- C. Delegated Design Submittals: For metal-plate-connected wood trusses indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For metal connector-plate manufacturer professional engineer and fabricator.
- B. Material Certificates: For dimension lumber specified to comply with minimum specific gravity. Indicate species and grade selected for each use and specific gravity.
- C. Product Certificates: For metal-plate-connected wood trusses, signed by officer of truss-fabricating firm.
- D. Evaluation Reports: For the following, from ICC-ES:
 - 1. Metal-plate connectors.
 - 2. Metal truss accessories.

1.5 QUALITY ASSURANCE

- A. Metal Connector-Plate Manufacturer Qualifications: A manufacturer that is a member of TPI and that complies with quality-control procedures in TPI 1 for manufacture of connector plates.
 - 1. Manufacturer's responsibilities include providing professional engineering services needed to assume engineering responsibility.
 - 2. Engineering Responsibility: Preparation of Shop Drawings and comprehensive engineering analysis by a qualified professional engineer.
- B. Fabricator Qualifications: Shop that participates in a recognized quality-assurance program, complies with quality-control procedures in TPI 1, and involves third-party inspection by an independent testing and inspecting agency acceptable to Architect and authorities having jurisdiction.
- C. Testing Agency Qualifications: For testing agency providing classification marking for fire-retardant-treated material, an inspection agency acceptable to authorities having jurisdiction that periodically performs inspections to verify that the material bearing the classification marking is representative of the material tested.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Handle and store trusses to comply with recommendations in SBCA BCSI, "Building Component Safety Information: Guide to Good Practice for Handling, Installing, Restraining, & Bracing Metal Plate Connected Wood Trusses."
 - 1. Store trusses flat, off of ground, and adequately supported to prevent lateral bending.
 - 2. Protect trusses from weather by covering with waterproof sheeting, securely anchored.
 - 3. Provide for air circulation around stacks and under coverings.
- B. Inspect trusses showing discoloration, corrosion, or other evidence of deterioration. Discard and replace trusses that are damaged or defective.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design metal-plate-connected wood trusses.
- B. Structural Performance: Metal-plate-connected wood trusses are to be capable of withstanding design loads within limits and under conditions indicated. Comply with requirements in TPI 1 unless more stringent requirements are specified below.
 - 1. Design Loads: As indicated.
 - 2. Maximum Deflection under Design Loads:
 - a. Roof Trusses: Vertical deflection of 1/240 of span.
- C. Comply with applicable requirements and recommendations of TPI 1, TPI DSB, and SBCA BCSI.
- D. Wood Structural Design Standard: Comply with applicable requirements in AF&PA's "National Design Specifications for Wood Construction" and its "Supplement."

2.2 WOOD PRODUCTS

- A. Lumber: DOC PS 20 and applicable rules of any rules-writing agency certified by the American Lumber Standard Committee (ALSC) Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
 - 1. Factory mark each piece of lumber with grade stamp of grading agency.
 - 2. Provide dressed lumber, S4S.
 - 3. Provide dry lumber with 19 percent maximum moisture content at time of dressing.
- B. Minimum Chord Size for Roof Trusses: 2 by 6 inches nominal (38 by 140 mm actual) for both top and bottom chords.
- C. Minimum Specific Gravity for Top Chords: 0.50.
- D. Permanent Bracing: Provide wood bracing that complies with requirements for miscellaneous lumber in Section 061000 "Rough Carpentry."

2.3 METAL CONNECTOR PLATES

- A. Fabricate connector plates to comply with TPI 1.
- B. Hot-Dip Galvanized-Steel Sheet: ASTM A653/A653M; Structural Steel (SS), high-strength low-alloy steel Type A (HSLAS Type A), or high-strength low-alloy steel Type B (HSLAS Type B); G60 (Z180) coating designation; and not less than 0.036 inch (0.9 mm) thick.

1. Use for interior locations unless otherwise indicated.
- C. Stainless Steel Sheet: ASTM A240/A240M or ASTM A666, Type 304, and not less than 0.035 inch (0.88 mm) thick.
 1. Use for exterior locations, wood-preservative-treated lumber, and where indicated.

2.4 FASTENERS

- A. Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
 1. Provide fasteners for use with metal framing anchors that comply with written recommendations of metal framing manufacturer.
 2. Where trusses are exposed to weather, in ground contact, made from pressure-preservative treated wood, or in area of high relative humidity, provide fasteners of Type 304 stainless steel.
- B. Nails, Brads, and Staples: ASTM F1667.

2.5 METAL FRAMING ANCHORS AND ACCESSORIES

- A. Allowable design loads, as published by manufacturer, are to comply with or exceed those indicated. Manufacturer's published values are to be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency. Framing anchors are to be punched for fasteners adequate to withstand same loads as framing anchors.
- B. Galvanized-Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A653/A653M, G60 (Z180) coating designation.
 1. Use for interior locations unless otherwise indicated.
- C. Stainless Steel Sheet: ASTM A240/A240M or ASTM A666, Type 304.
 1. Use for exterior locations and where indicated.
- D. Truss Tie-Downs (Hurricane or Seismic Ties): Embedded truss anchor for fastening roof trusses to masonry wall below, as indicated in drawings.

2.6 MISCELLANEOUS MATERIALS

- A. Galvanizing Repair Paint: SSPC-Paint 20, with dry film containing a minimum of 92 percent zinc dust by weight.

2.7 FABRICATION

- A. Cut truss members to accurate lengths, angles, and sizes to produce close-fitting joints.
- B. Fabricate metal connector plates to sizes, configurations, thicknesses, and anchorage details required to withstand design loads for types of joint designs indicated.
- C. Assemble truss members in design configuration indicated; use jigs or other means to ensure uniformity and accuracy of assembly, with joints closely fitted to comply with tolerances in TPI 1. Position members to produce design camber indicated.
 - 1. Fabricate wood trusses within manufacturing tolerances in TPI 1.
- D. Connect truss members by metal connector plates located and securely embedded simultaneously in both sides of wood members by air or hydraulic press.

2.8 SOURCE QUALITY CONTROL

- A. Special Inspections: Owner will engage a qualified special inspector to perform special inspections.
 - 1. Provide special inspector with access to fabricator's documentation of detailed fabrication and quality-control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to approved construction documents and referenced standards.
 - 2. Provide special inspector with access to places where wood trusses are being fabricated to perform inspections.
- B. Correct deficiencies in Work that special inspections indicate do not comply with the Contract Documents.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install wood trusses only after supporting construction is in place and is braced and secured.
- B. If trusses are delivered to Project site in more than one piece, assemble trusses before installing.
- C. Hoist trusses in place by lifting equipment suited to sizes and types of trusses required, exercising care not to damage truss members or joints by out-of-plane bending or other causes.
- D. Install and brace trusses according to TPI recommendations and as indicated.
- E. Install trusses plumb, square, and true to line and securely fasten to supporting construction.
- F. Space trusses as indicated; adjust and align trusses in location before permanently fastening.

- G. Anchor trusses securely at bearing points; use metal truss tie-downs or floor truss hangers as applicable. Install fasteners through each fastener hole in metal framing anchors according to manufacturer's fastening schedules and written instructions.
- H. Securely connect each truss ply required for forming built-up girder trusses.
 - 1. Anchor trusses to girder trusses as indicated.
- I. Install and fasten permanent bracing during truss erection and before construction loads are applied. Anchor ends of permanent bracing where terminating at walls or beams.
 - 1. Install bracing to comply with Section 061000 "Rough Carpentry."
- J. Install wood trusses within installation tolerances in TPI 1.
- K. Do not alter trusses in field. Do not cut, drill, notch, or remove truss members.
- L. Replace wood trusses that are damaged or do not comply with requirements.
 - 1. Damaged trusses may be repaired according to truss repair details signed and sealed by the qualified professional engineer responsible for truss design, when approved by Architect.

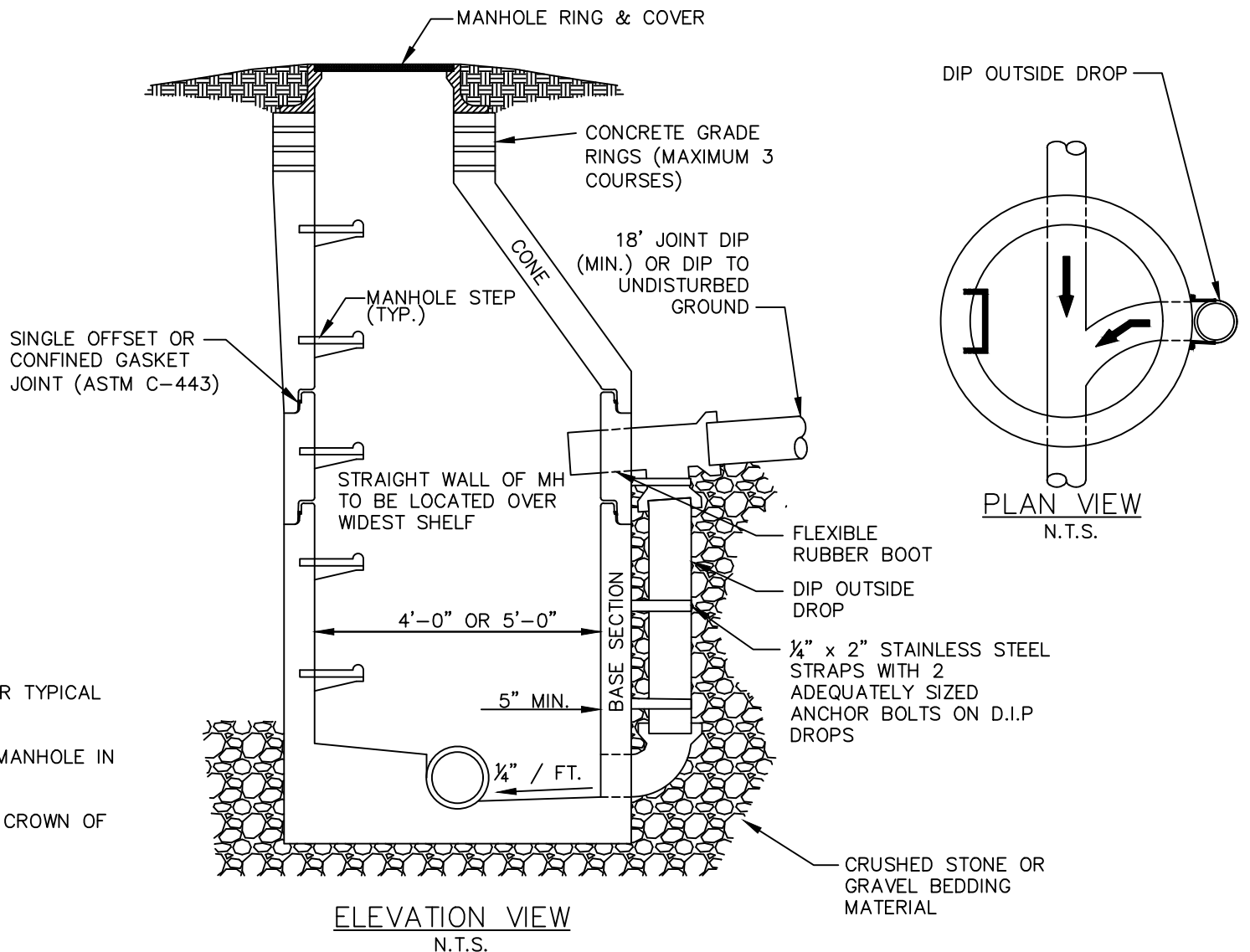
3.2 REPAIRS AND PROTECTION

- A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.
- B. Protect wood trusses from weather. If, despite protection, wood trusses become wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.
- C. Repair damaged galvanized coatings on exposed surfaces in accordance with ASTM A780/A780M and manufacturer's written instructions.

3.3 FIELD QUALITY CONTROL

- A. Special Inspections: Owner will engage a qualified special inspector to perform special inspections to verify that temporary installation restraint/bracing and the permanent individual truss member restraint/bracing are installed in accordance with the approved truss submittal package.

END OF SECTION 061753



NOTES:

1. REFER TO STANDARD NO. 12.01 FOR TYPICAL MANHOLE REQUIREMENTS.
2. OUTSIDE DROP SHALL NOT ENTER MANHOLE IN CONE SECTION.
3. MATCH DROP INFLUENT CROWN TO CROWN OF EFFLUENT PIPE.

REVISIONS

NO.	DATE	DESCRIPTION
1	8/08	REMOVED NOTE
2	1/19	STANDARDS UPDATE

**YORK COUNTY
ENGINEERING
STANDARDS**

**MANHOLE
OUTSIDE DROP**

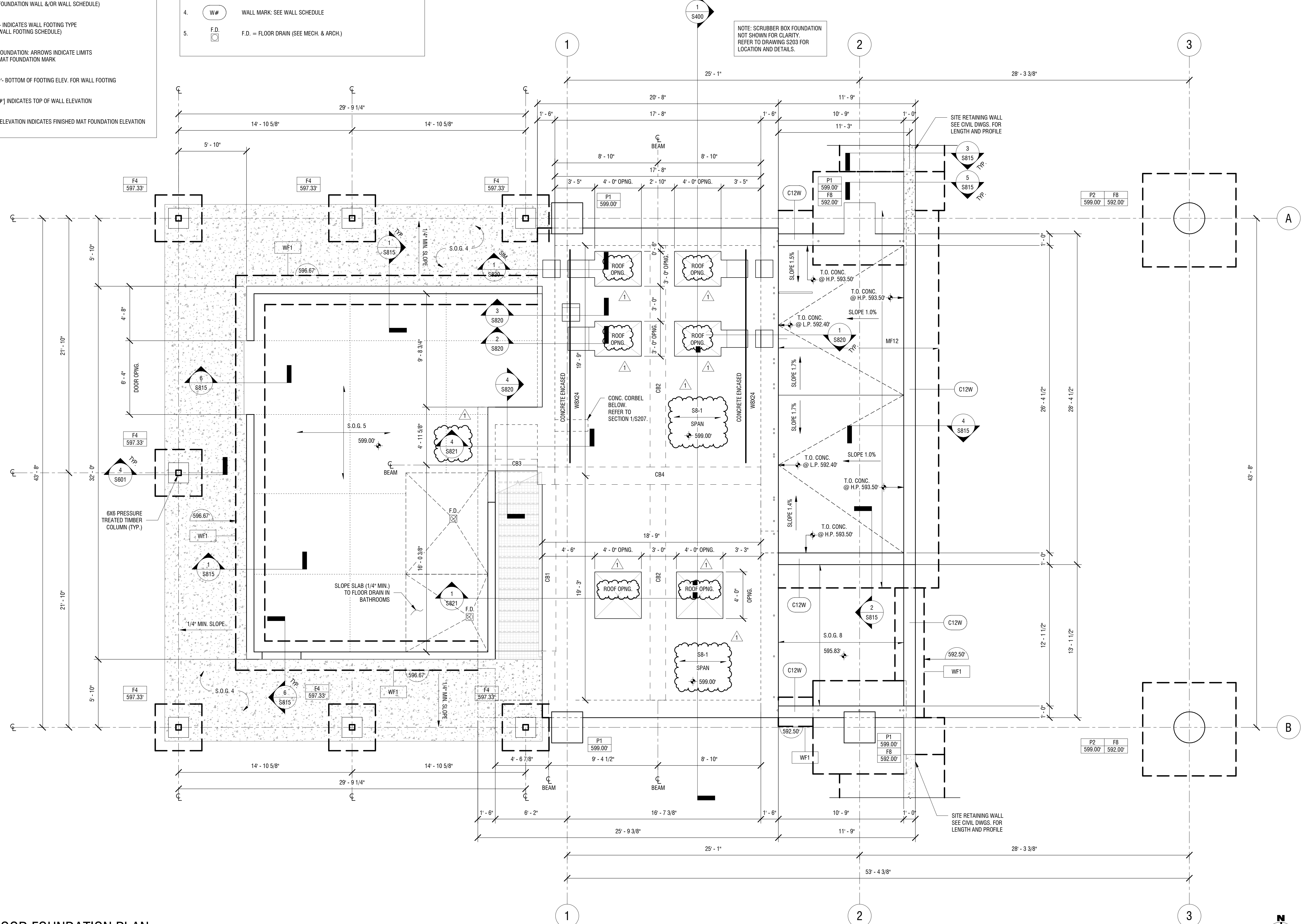
STD. NO.
12.06
DATE
01/19

FOUNDATION LEGEND	
1.	P# - INDICATES PIER TYPE (SEE PIER SCHEDULE) F# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE) ### - INDICATES BOTTOM OF FOOTING ELEVATION ### - INDICATES TOP OF PIER ELEVATION
2.	## - INDICATES WALL TYPE (SEE FOUNDATION WALL &/OR WALL SCHEDULE)
3.	## - INDICATES WATERTIGHT CONCRETE WALL (SEE FOUNDATION WALL &/OR WALL SCHEDULE)
4.	WF# - INDICATES WALL FOOTING TYPE (SEE WALL FOOTING SCHEDULE)
5.	MAT FOUNDATION: ARROWS INDICATE LIMITS # = MAT FOUNDATION MARK
6.	### - BOTTOM OF FOOTING ELEV. FOR WALL FOOTING
7.	[###] INDICATES TOP OF WALL ELEVATION
8.	SPOT ELEVATION INDICATES FINISHED MAT FOUNDATION ELEVATION

SLAB-ON-GRADE LEGEND	
1.	SLAB-ON-GRADE: ARROWS INDICATE LIMITS # = SLAB MARK
2.	SPOT ELEVATION INDICATES FINISHED SLAB ELEVATION
3.	CONTROL/CONSTRUCTION JOINT
4.	W# - WALL MARK: SEE WALL SCHEDULE
5.	F.D. = FLOOR DRAIN (SEE MECH. & ARCH.)

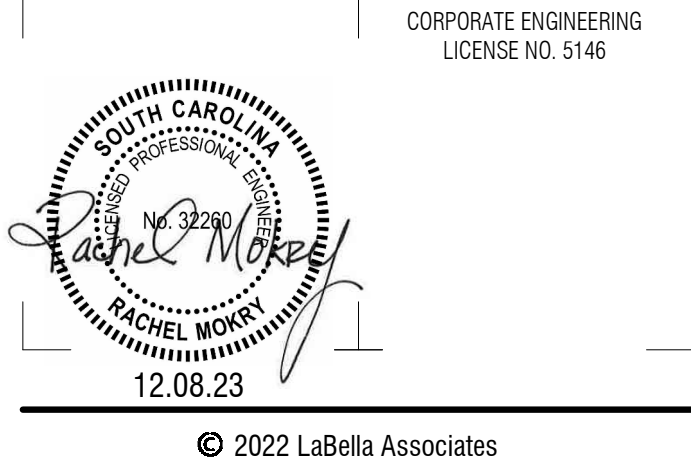
- FIRST FLOOR FOUNDATION PLAN NOTES:**
- FOR GENERAL NOTES, SEE S001, FOR GENERAL SCHEDULES, SEE S003.
 - TOP OF FINISHED FLOOR ELEVATIONS ARE NOTED ON PLAN.
 - BOTTOM OF FOOTING ELEVATIONS ARE NOTED ON PLAN.
 - PLACE A MINIMUM OF 12" OF GRANULAR FREE DRAINING MATERIAL BEHIND ALL RETAINING WALLS.
 - CENTER ISOLATED FOOTINGS UNDER COLUMNS AND/OR AT COLUMN LINE INTERSECTIONS, U.N.O.
 - DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL PROCESS FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
 - SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
 - CONTRACTOR SHALL COORDINATE LOCATION AND SIZE OF ALL WALL AND FLOOR PENETRATIONS IN THE PUMP STATION WITH THE PROCESS DRAWINGS.

- LOCATIONS WHERE CMU FOUNDATION WALLS INTERSECT WITH CONCRETE FOUNDATION WALLS, THE CMU WALL FOUNDATION REINFORCEMENT SHALL EXTEND INTO THE CONCRETE WALL.
- SEE M.E.P. DRAWINGS FOR THE BALANCE OF ALL EQUIPMENT, HOUSEKEEPING PADS, FLOOR PENETRATIONS, ETC. REQUIRED AT THIS LEVEL.
- BALANCE OF SLAB REINF. FOR REINFRANT CORNERS AND OPENINGS NOT SHOWN FOR CLARITY, SEE TYPICAL DETAILS.
- SAW-CUT CONTROL JOINTS ARE SHOWN SCHEMATICALLY. COORDINATE WITH ARCHITECTURAL FLOOR PLAN.
- NUMBER OF CONSTRUCTION JOINTS, IF ANY, THAT ARE REQUIRED ARE THE RESPONSIBILITY OF THE CONTRACTOR TO MANAGE CONTROL OF THEIR CONCRETE POUR. CONSTRUCTION JOINT LOCATIONS SHOULD BE COORDINATED WITH CONTROL JOINT LOCATIONS AND BE APPROVED BY THE ENGINEER.
- FOR CONCRETE ENCASED BEAMS, PROVIDE GRADE 50 STEEL.
- COORDINATE CMU CONTROL JOINT LOCATIONS PRIOR TO REBAR PLACEMENT.



1 FIRST FLOOR FOUNDATION PLAN
S202 1/4" = 1'-0"

LaBella
Powered by partnership.
400 S. Tryon Street, Suite 1300
Charlotte, NC 28285
704-376-6423
labellapc.com



YORK COUNTY
6 CONGRESS STREET
YORK, SC 29745

Crowders Creek Pump Station Replacement
1159 FIELD DAY LANE
CLOVER, SC 29710

NO.	DATE	DESCRIPTION
1	12/08/2023	ADDENDUM

PROJECT NUMBER:	2213042
DRAWN BY:	RM
REVIEWED BY:	DRH
ISSUED FOR:	ISSUED FOR REVIEW
DATE:	08/03/2022
DRAWING NAME:	

FIRST FLOOR FOUNDATION PLAN

DRAWING NUMBER:

S202



YORK COUNTY
6 CONGRESS STREET
YORK, SC 29745

**Crowders Creek Pump Station
Replacement**
1159 FIELD DAY LANE
CLOVER, SC 29710

NO.	DATE	DESCRIPTION
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REVIEWED BY: DRH

ISSUED FOR: ISSUED FOR REVIEW

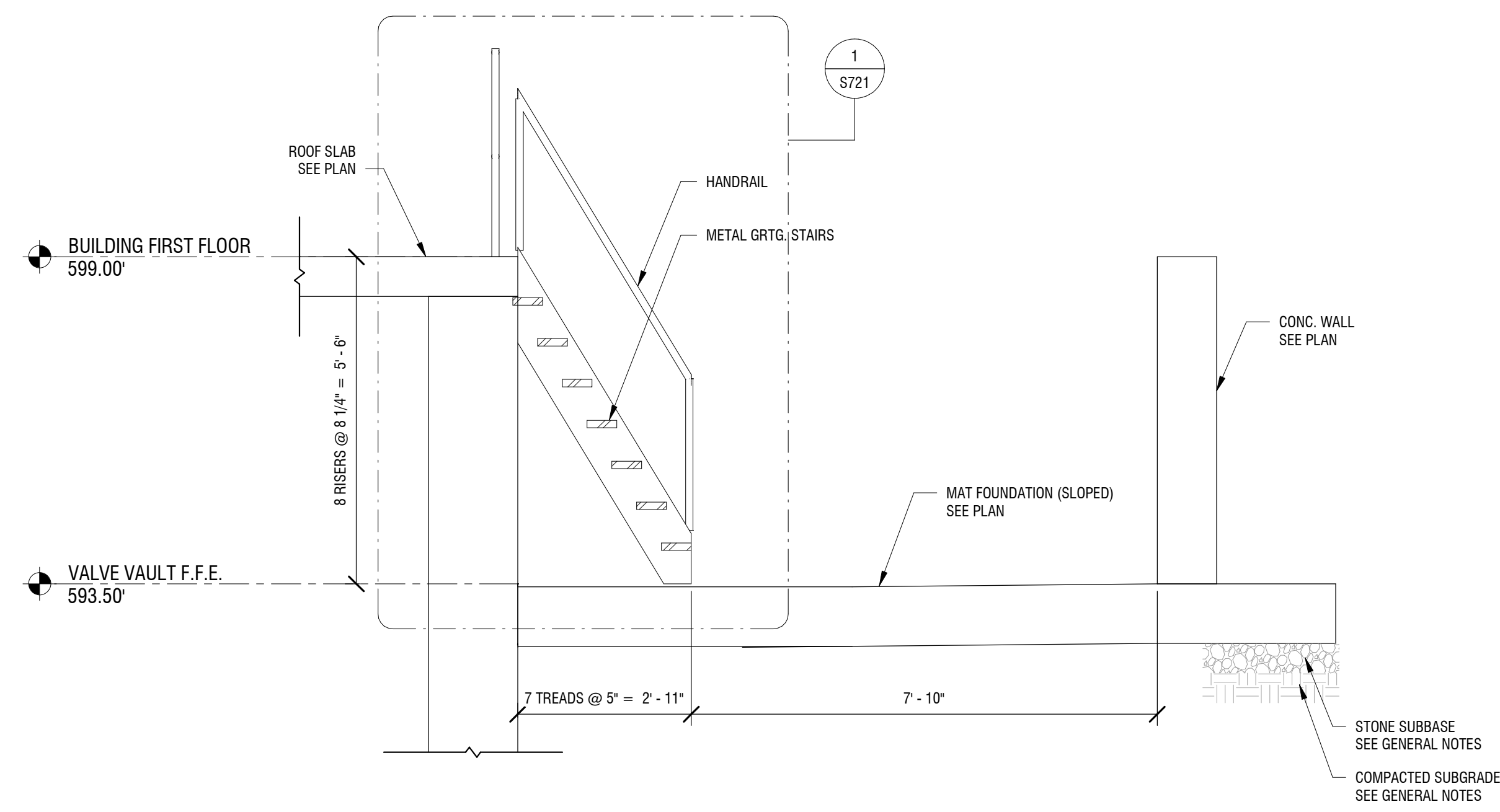
DATE: 08/03/2022

DRAWING NAME:

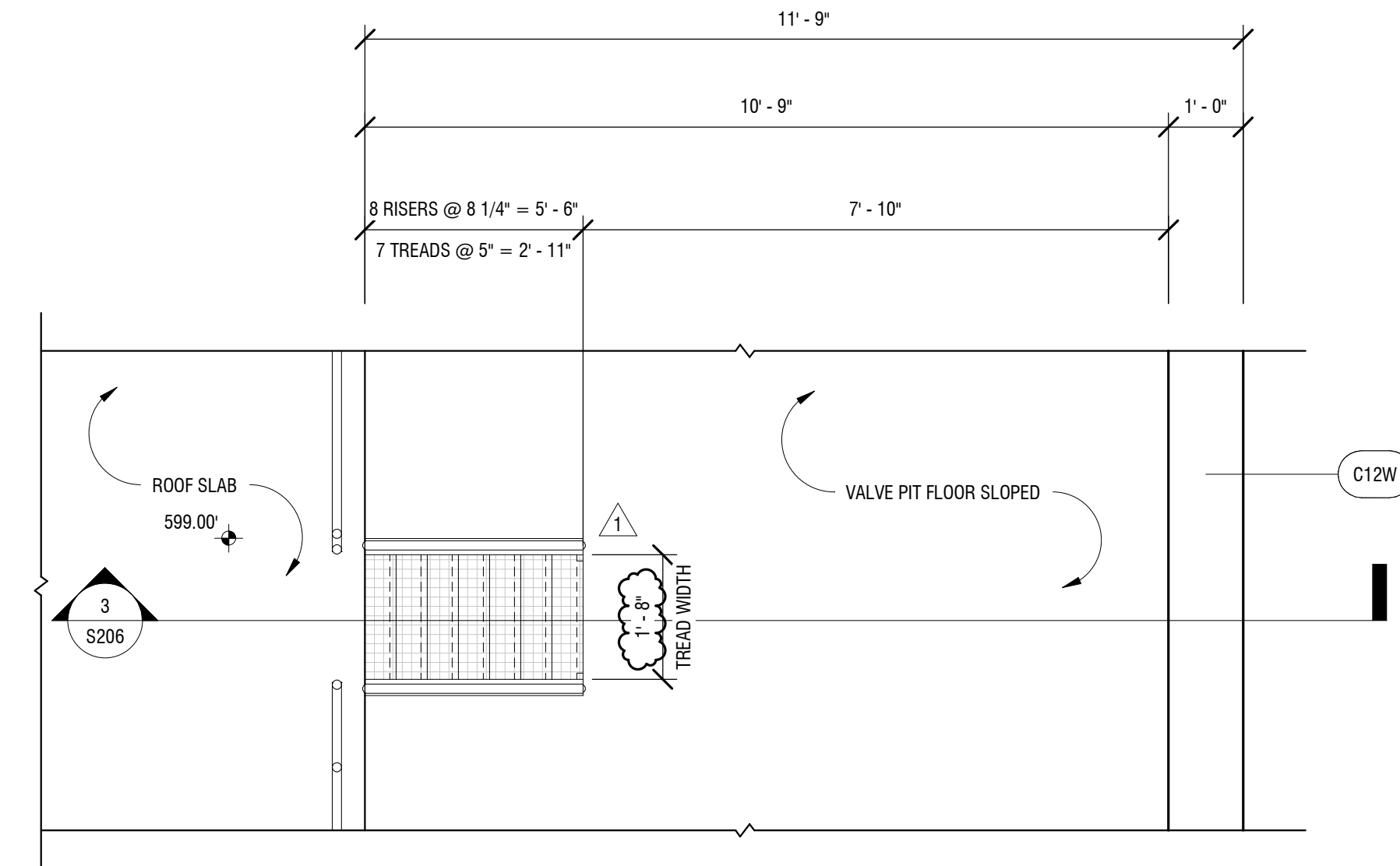
**MISCELLANEOUS FRAMING
PLANS AND SECTIONS**

DRAWING NUMBER:

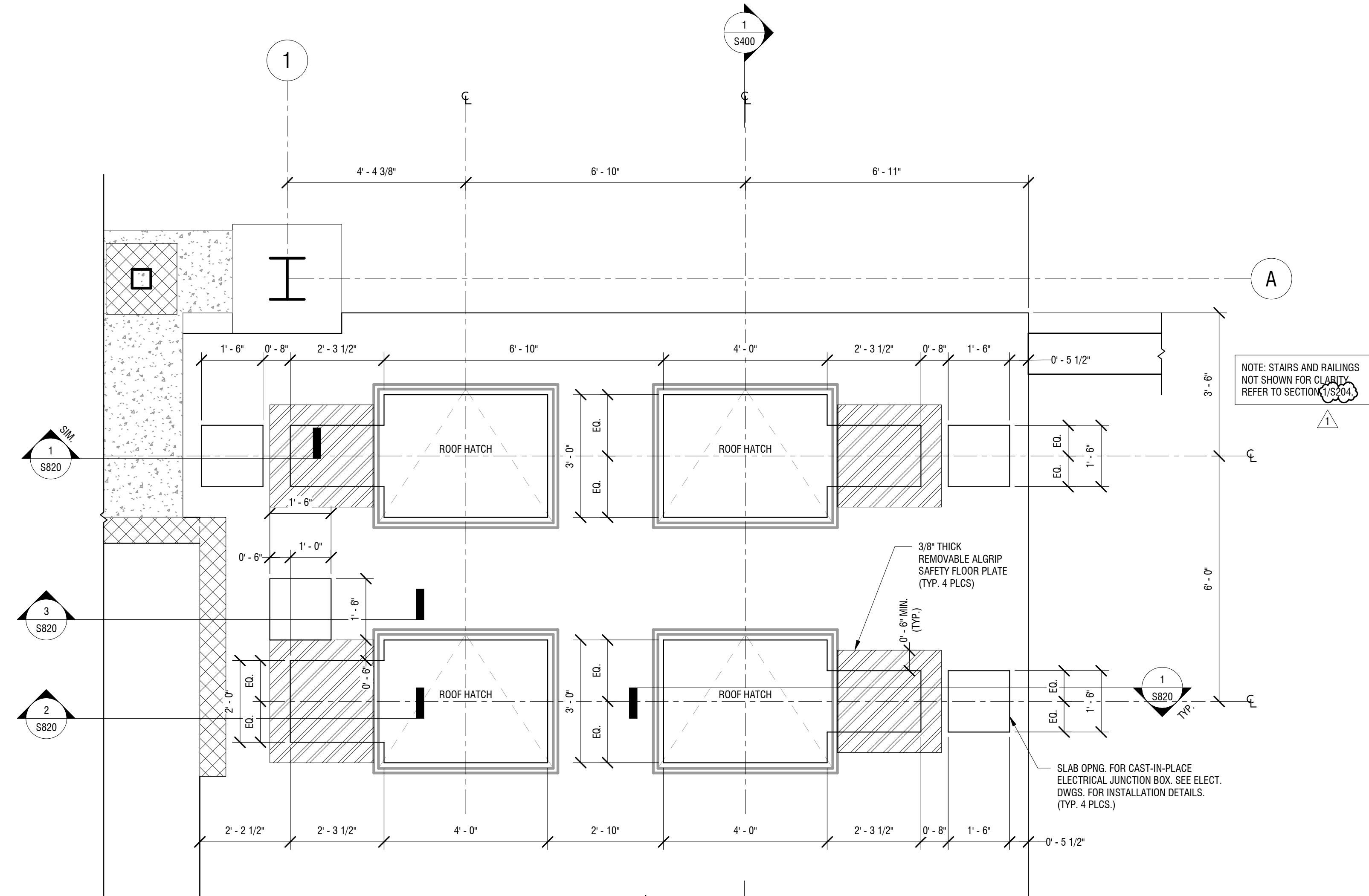
S206



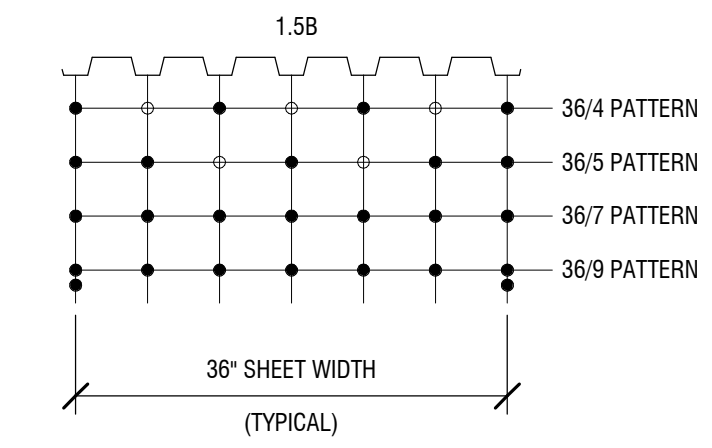
3 TYPICAL SECTION AT VALVE VAULT STAIR
1/2" = 1'-0"



2 ENLARGED VALVE PIT STAIR PLAN
1/2" = 1'-0"



1 ENLARGED FIRST FLOOR FRAMING PLAN AT ELECTRICAL JUNCTION BOXES
1/2" = 1'-0"

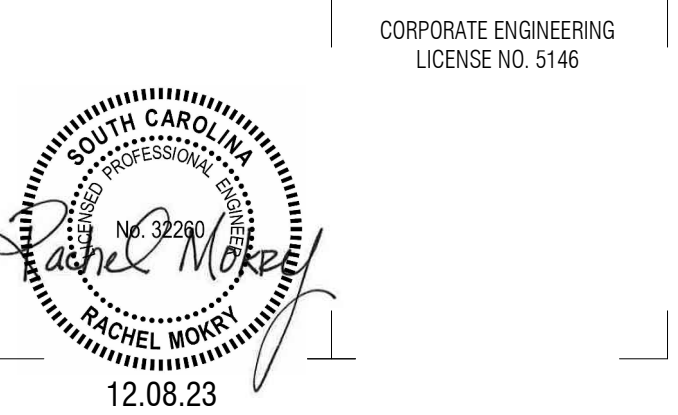


- NOTES:**
- SEE THE ROOF DECK SCHEDULE FOR APPLICABLE DECK TYPE AND PATTERN.
 - DECK ENDS ARE TO BE BUTT SPLICED. LAPPED DECK ENDS ARE PROHIBITED.
 - WELDING WASHERS ARE NOT PERMITTED FOR DECKS THICKER THAN 24 GAGE.

TYPICAL METAL DECK FASTENING LAYOUT
NOT TO SCALE

- TOP CHORD DEAD LOAD = 5 PSF
BOTTOM CHORD DEAD LOAD = 10 PSF
ROOF LIVE LOAD = 20 PSF
DOWNWARD WIND PRESSURE = 31 PSF
UPLIFT WIND PRESSURE = 27 PSF
- DIAPHRAGM LOADS:**
STORY SHEAR IN BOTH MAJOR AND MINOR DIRECTION = 300 PLF
- NOTE: LOADS GIVEN ARE NOT FACTORED

- NOTES:**
- ROOF TRUSSES DESIGNED AND DETAILED BY PRE-ENGINEERED TRUSS MANUFACTURER.
 - TRUSS MANUFACTURER TO PROVIDE HEEL BLOCKING AND CLIPS CAPABLE OF TRANSFERRING DIAPHRAGM LOADS LISTED ABOVE.
 - LOADS LISTED ABOVE ARE BASED ON SLOPED LOADS. TRUSS MANUFACTURER SHALL ADJUST LOADS IN THE HORIZONTAL PROJECTION BASED ON THE ROOF SLOPE.
 - SEE STRUCTURAL DESIGN TABLE FOR DESIGN INFORMATION NOT LISTED ABOVE.
 - SEE STRUCTURAL AND ARCHITECTURAL PLANS AND SECTIONS FOR REQUIRED TRUSS DIMENSIONS.
 - THE TRUSS ERECTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL TEMPORARY AND PERMANENT TRUSS BRACING.



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YORK COUNTY
6 CONGRESS STREET
YORK, SC 29745

Crowders Creek Pump Station Replacement
1159 FIELD DAY LANE
CLOVER, SC 29710

NO.	DATE	DESCRIPTION
1	12/08/2023	ADDENDUM

PROJECT NUMBER: 2213042

DRAWN BY: RM
REVIEWED BY: DRH

ISSUED FOR: ISSUED FOR REVIEW

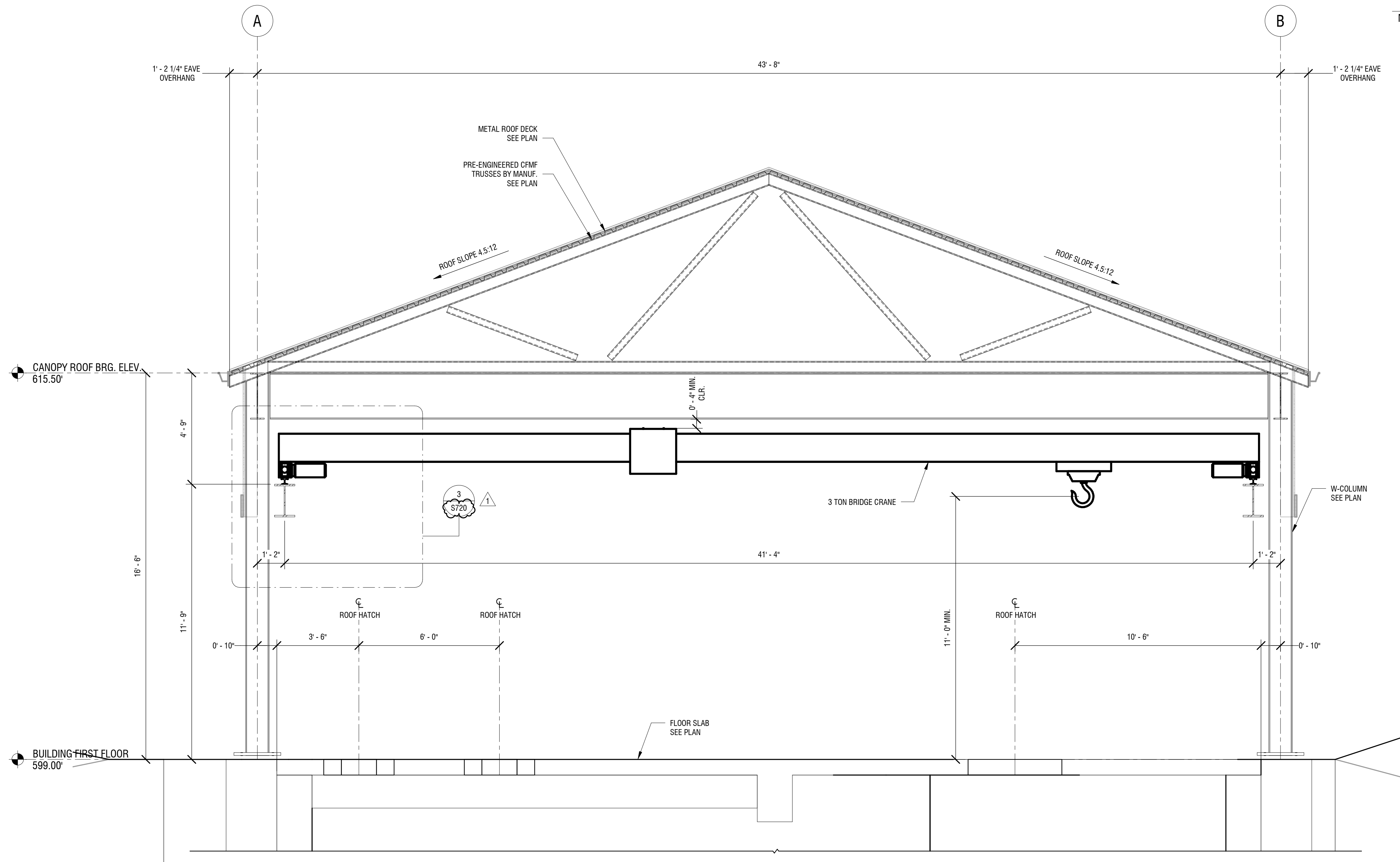
DATE: 08/03/2022

DRAWING NAME:

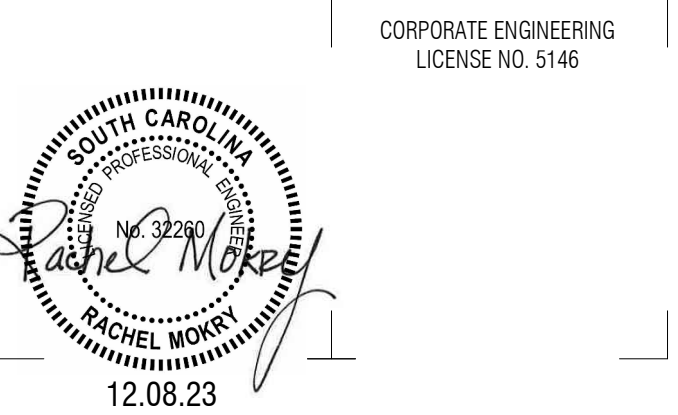
CANOPY FRAMING ELEVATION & DETAILS

DRAWING NUMBER:

S400



1 CANOPY FRAMING ELEVATION
S400 3/8" = 1'-0"



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YORK COUNTY
6 CONGRESS STREET
YORK, SC 29745

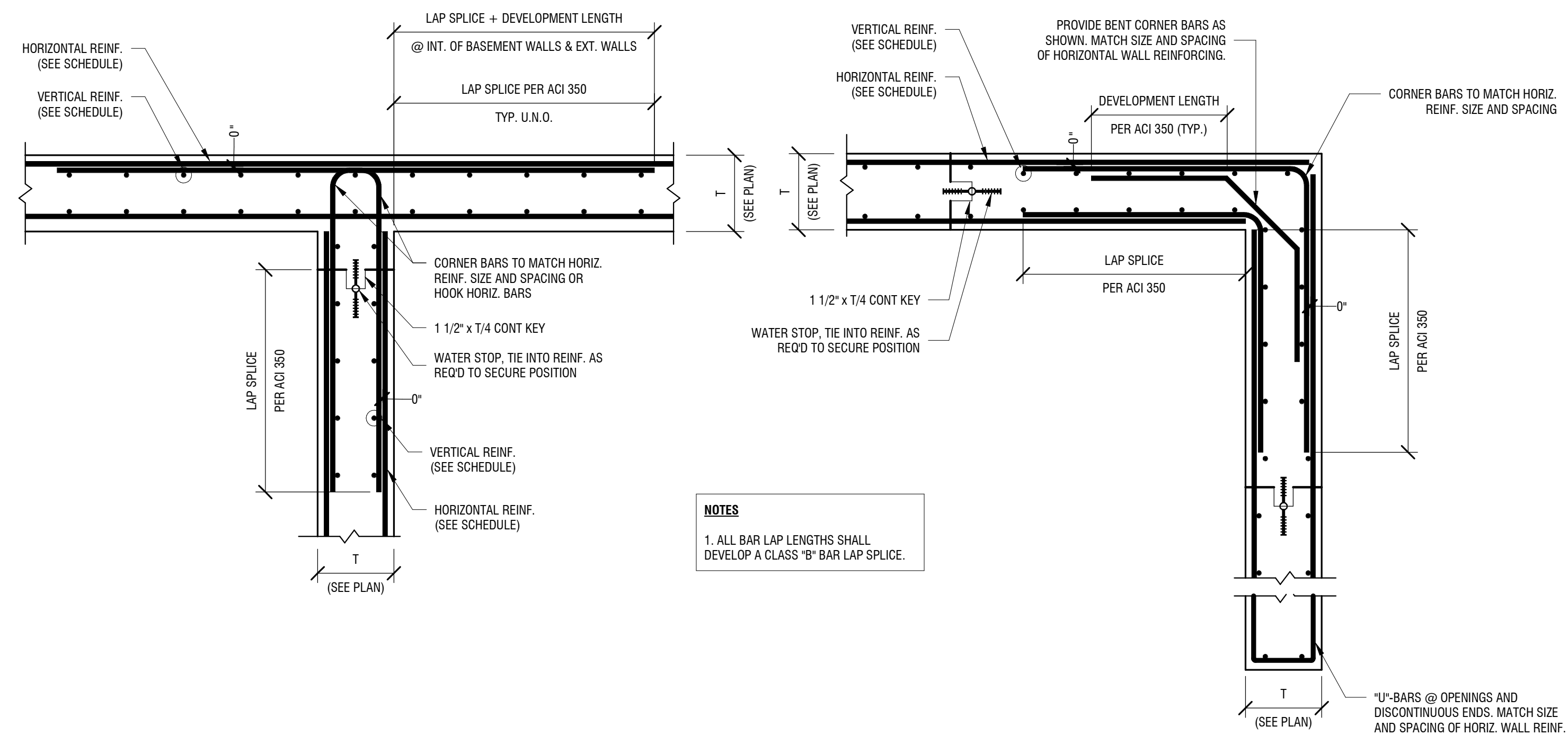
Crowders Creek Pump Station Replacement
1159 FIELD DAY LANE
CLOVER, SC 29710

1	12/08/2023	ADDENDUM
NO.	DATE:	DESCRIPTION:
Revisions		
PROJECT NUMBER:		2213042
DRAWN BY:		RM
REVIEWED BY:		DRH
ISSUED FOR:		ISSUED FOR REVIEW
DATE:		08/03/2022
DRAWING NAME:		

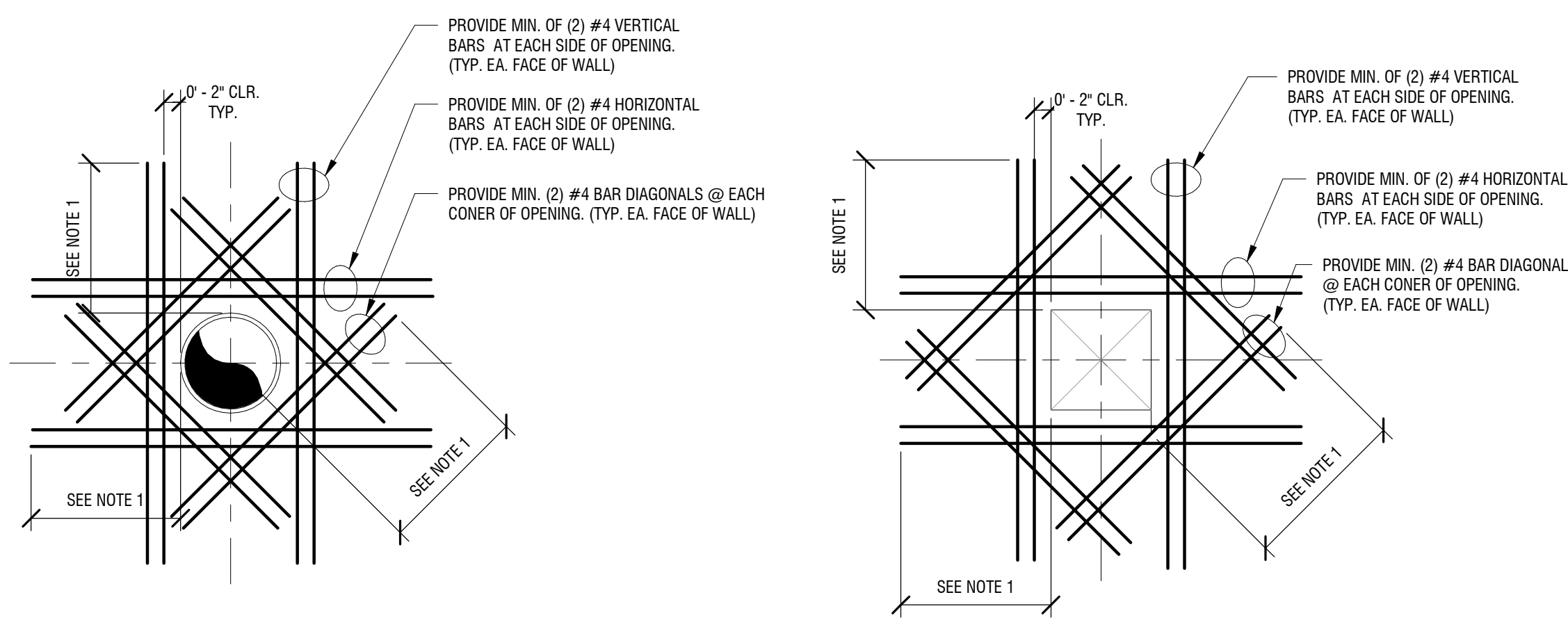
TYPICAL SLAB-ON-GRADE AND FOUNDATION DETAILS

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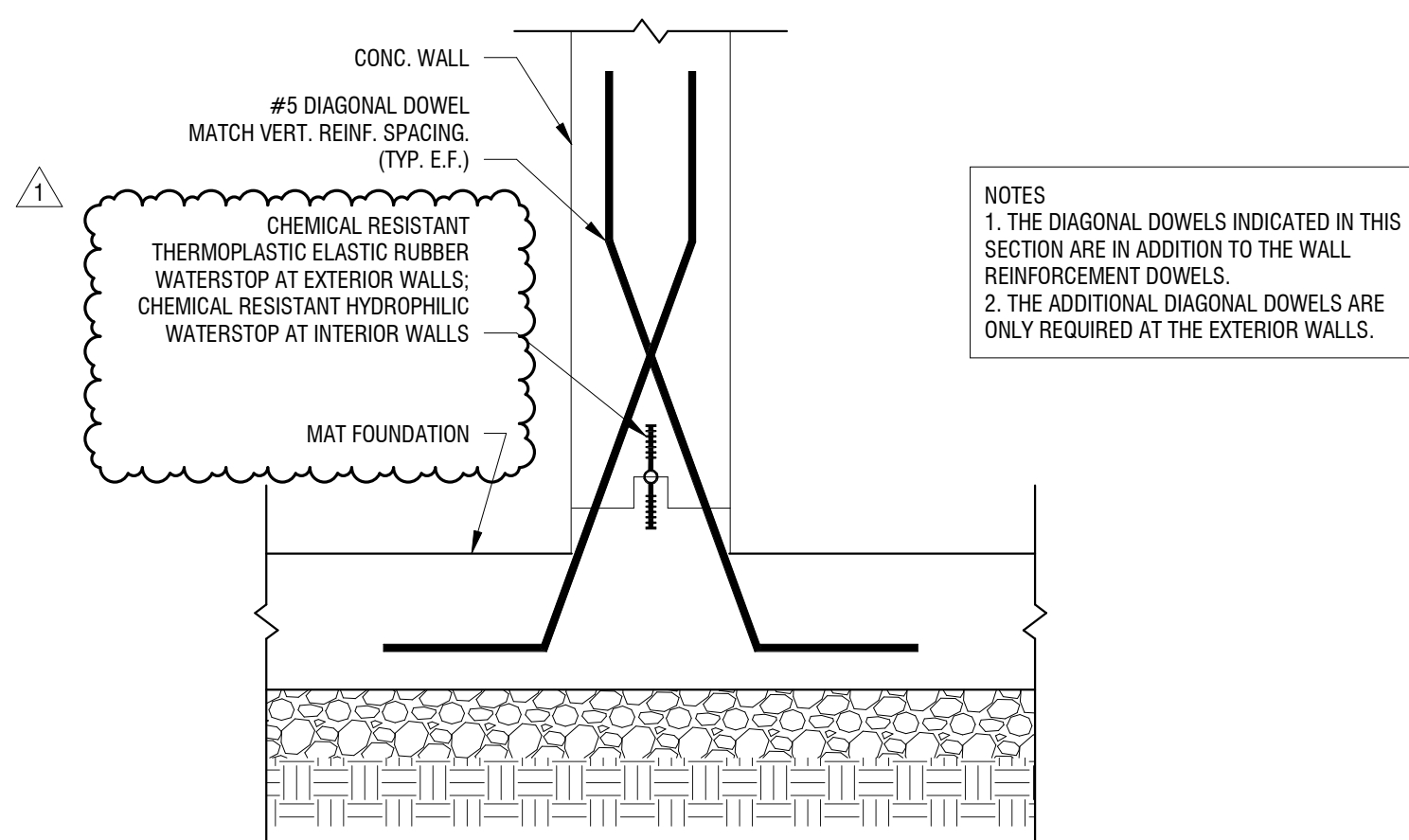
S711



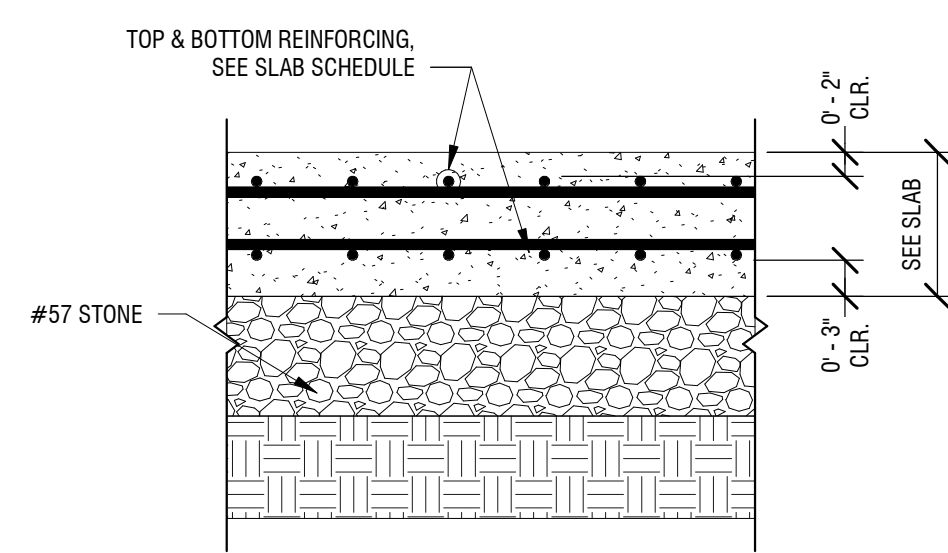
5 TYPICAL CONCRETE WALL AT INTERSECTION DETAILS FOR WATERTIGHT STRUCTURES
S711 NOT TO SCALE



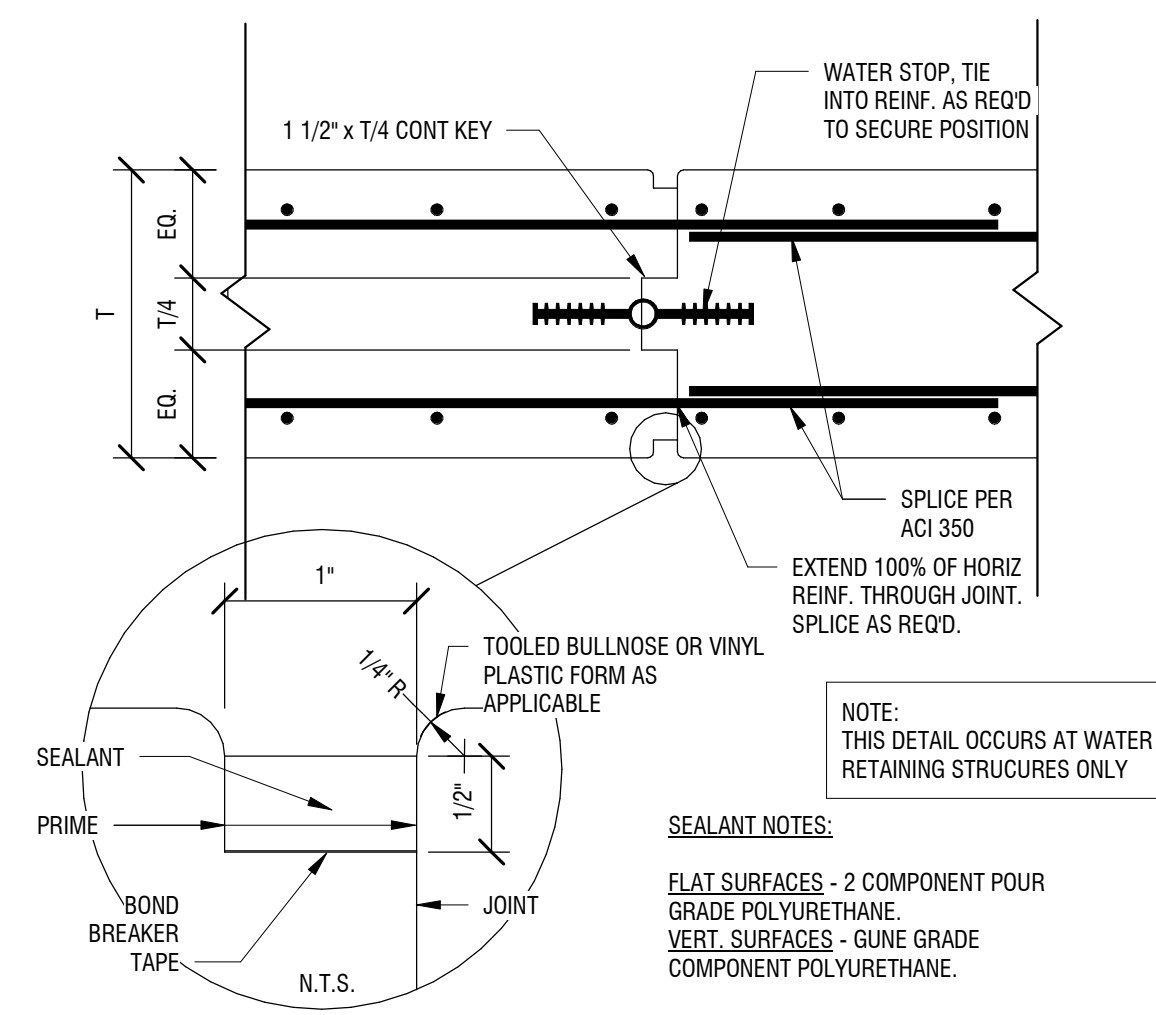
6 TYPICAL OPENING IN SLABS AND WALLS
S711 NOT TO SCALE



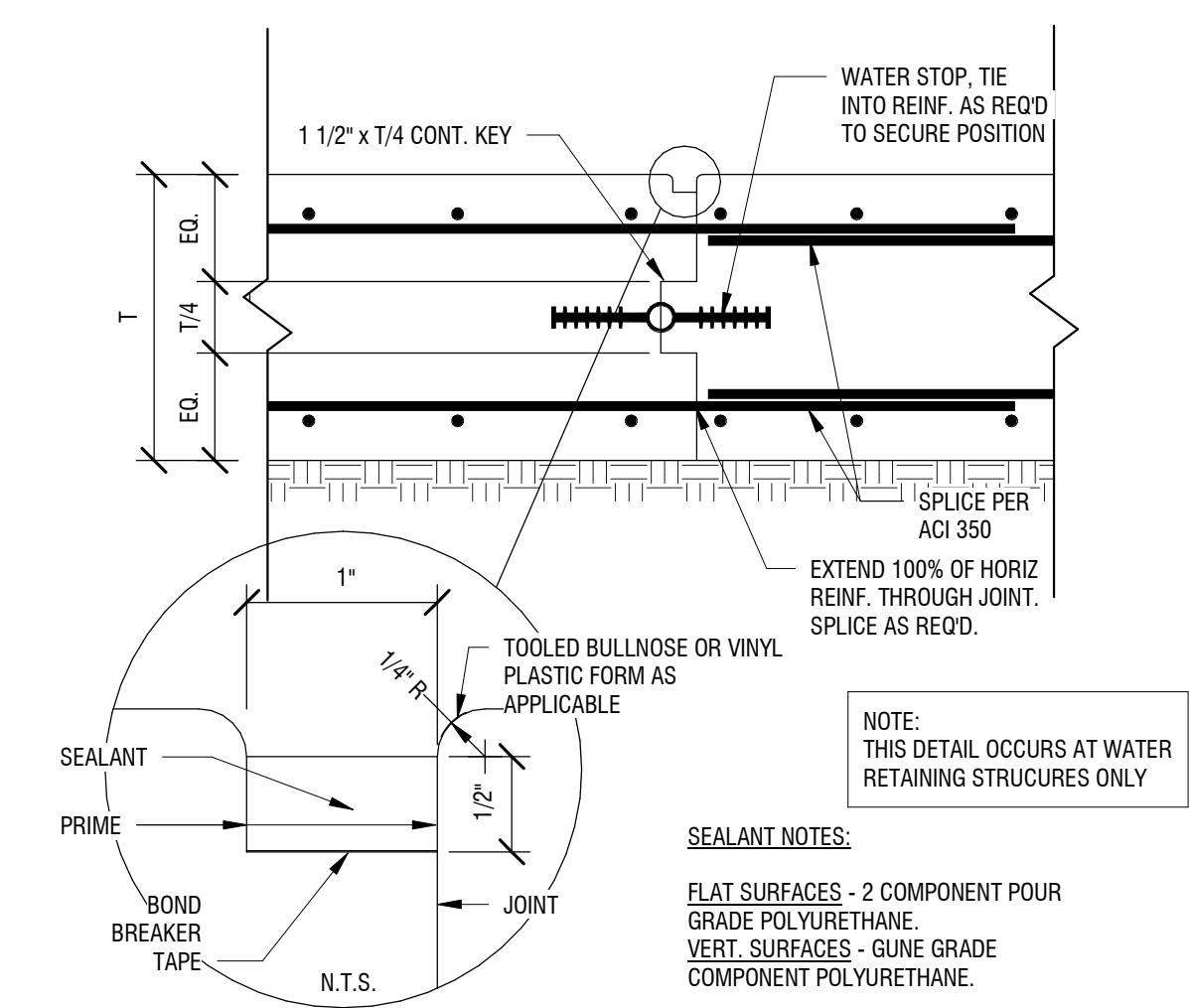
4 TYPICAL WALL TO FOUNDATION DETAIL FOR WATERTIGHT STRUCTURES
S711 NOT TO SCALE



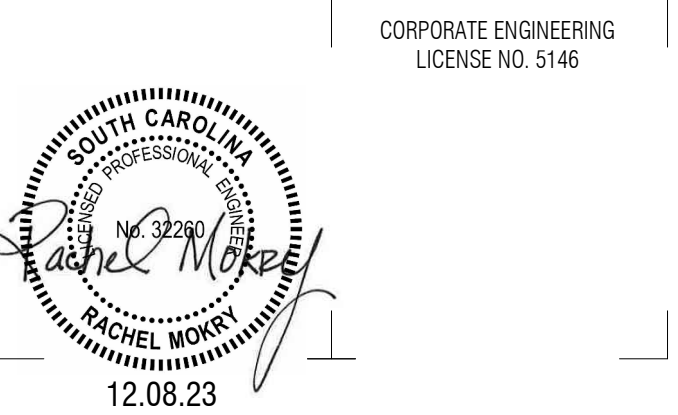
3 TYPICAL SLAB DETAILS FOR WATERTIGHT STRUCTURES
S711 NOT TO SCALE



2 TYPICAL WALL CONSTRUCTION JOINT FOR WATERTIGHT STRUCTURES
S711 NOT TO SCALE



1 TYPICAL MAT FND./SLAB CONSTRUCTION JOINT FOR WATERTIGHT STRUCTURES
S711 NOT TO SCALE



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Crowders Creek Pump Station Replacement
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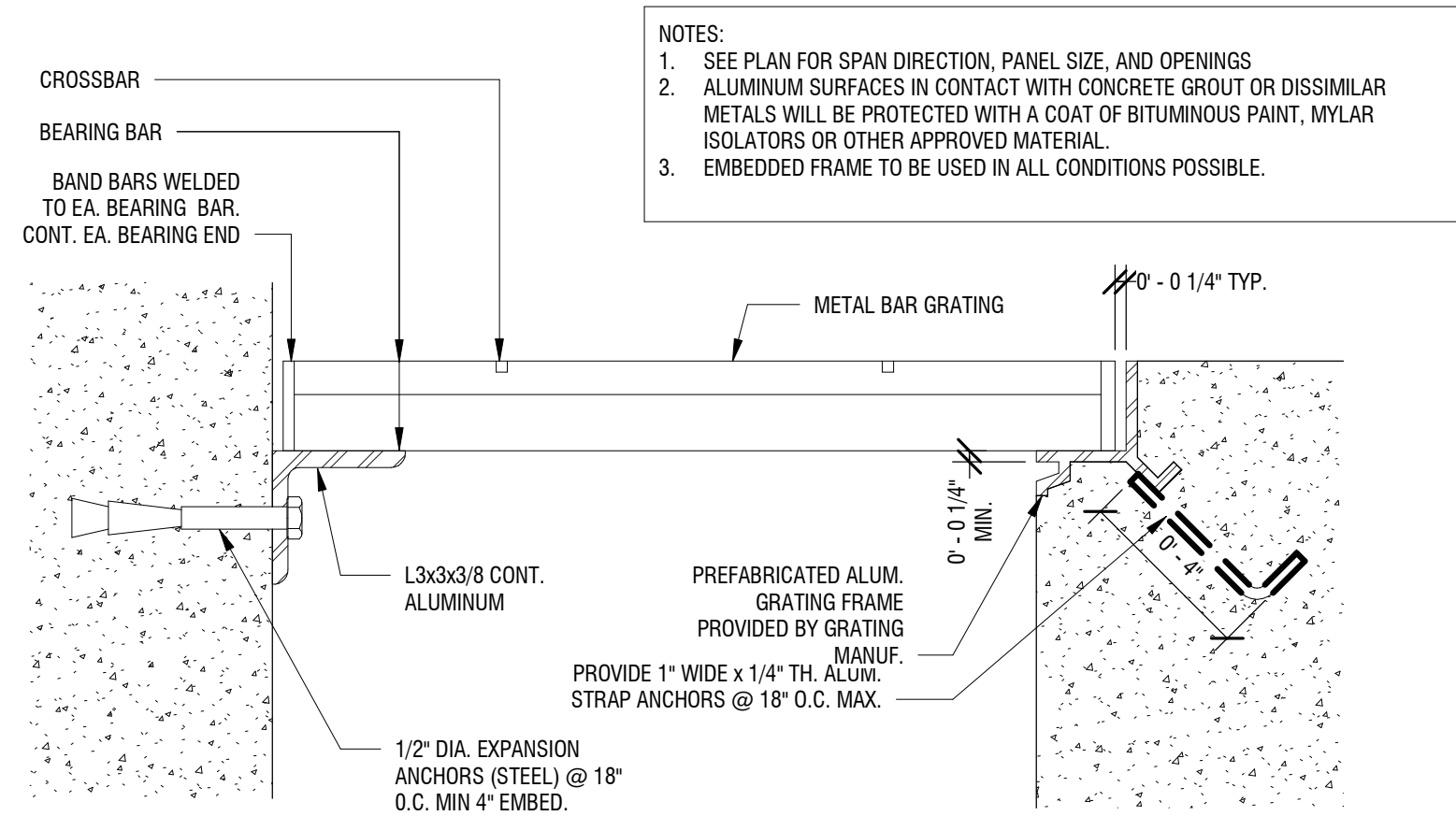
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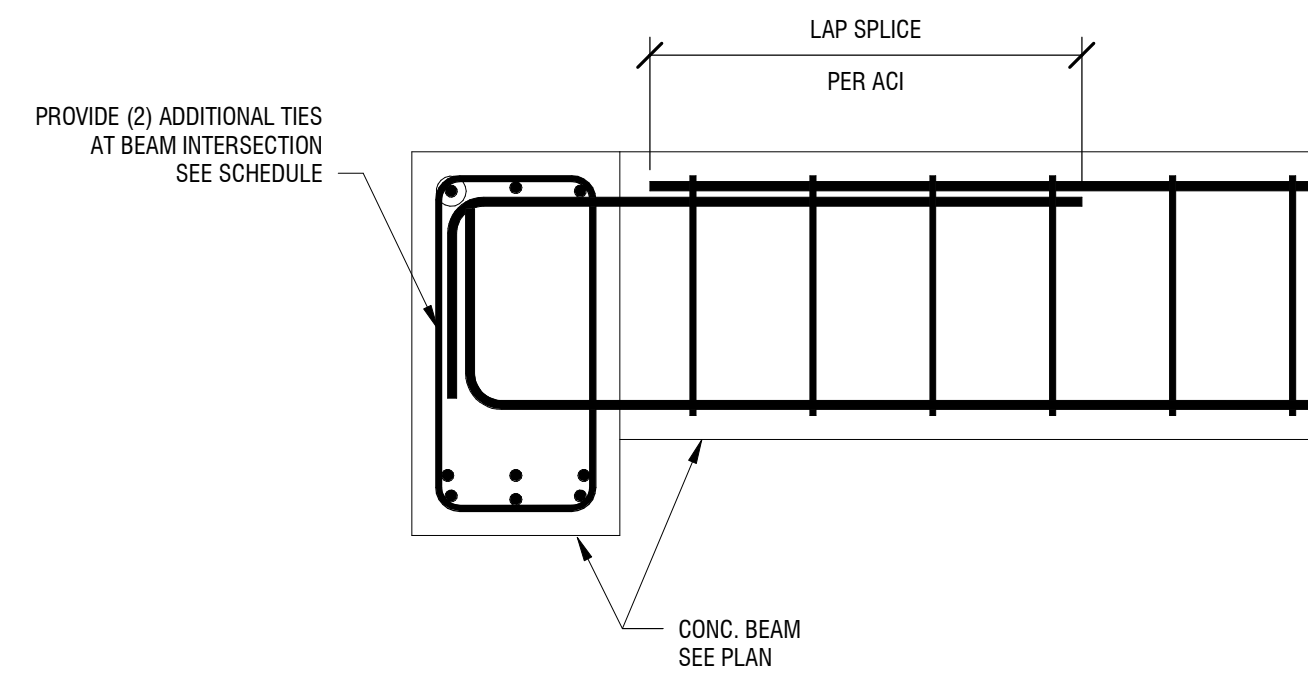
TYPICAL CONCRETE DETAILS

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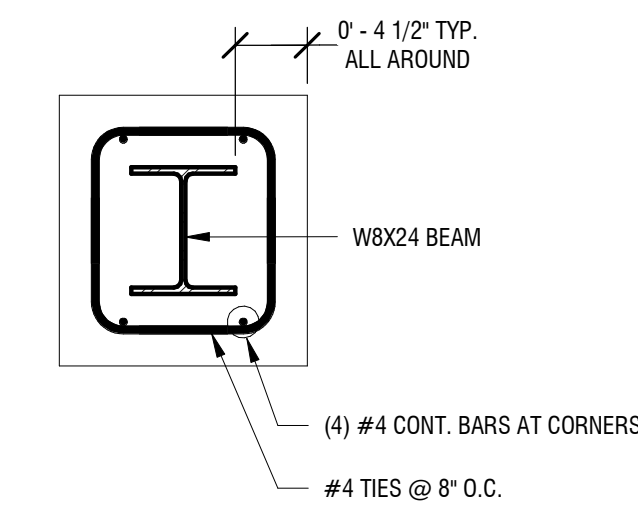
S712



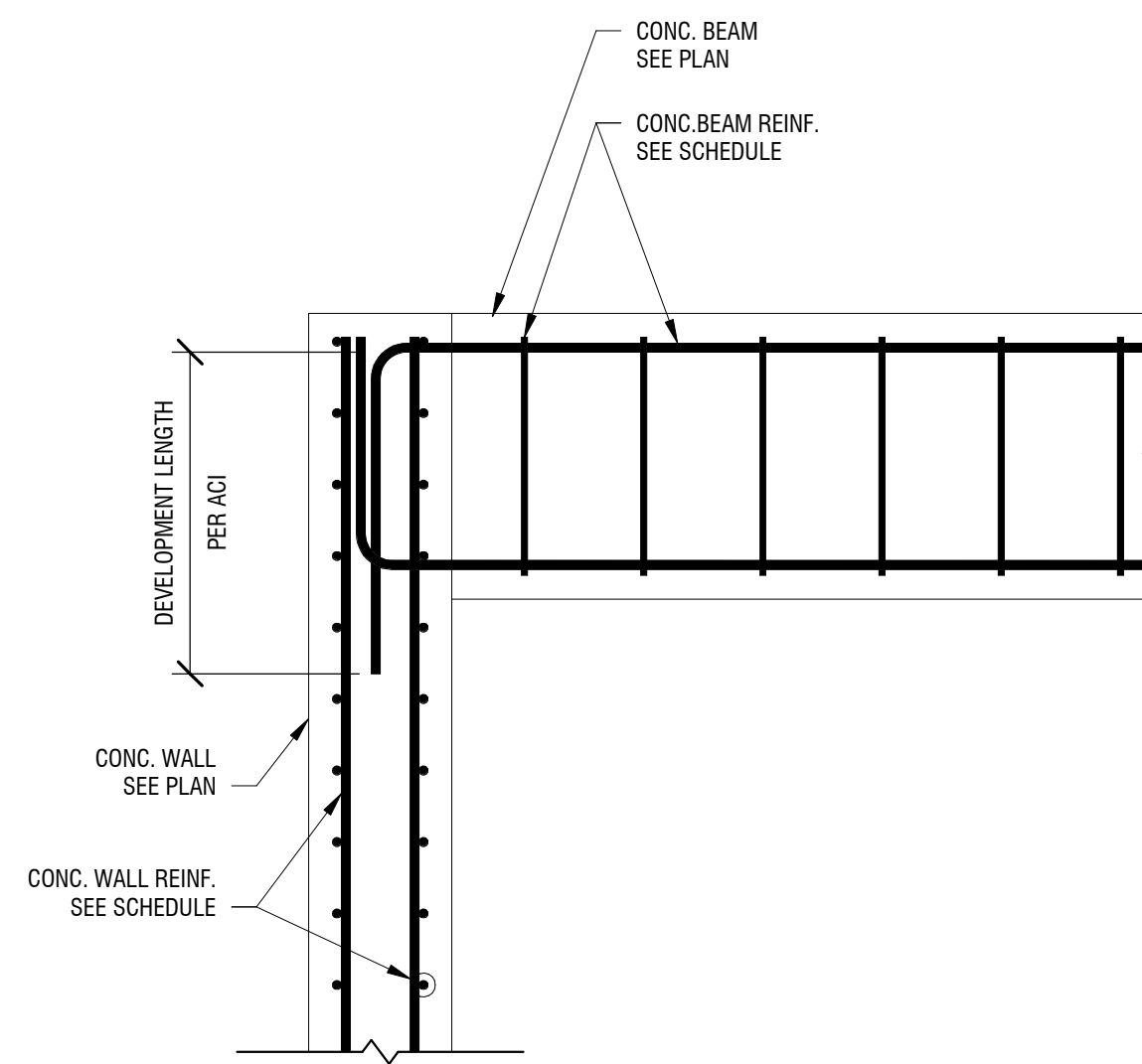
7 TYPICAL GRATING SUPPORT SECTION
S712 NOT TO SCALE



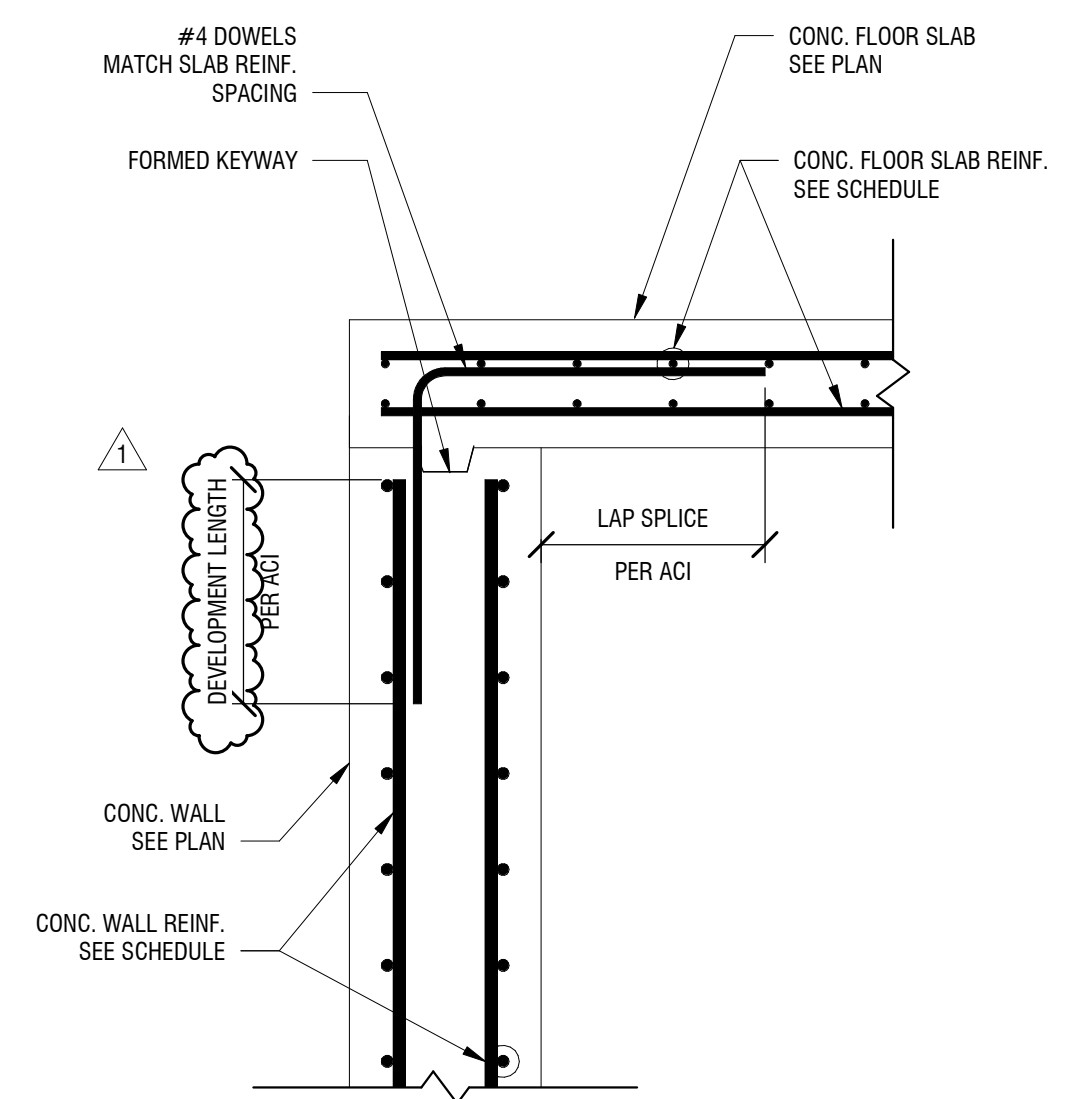
5 TYPICAL CONCRETE BEAM TO BEAM CONNECTION
S712 NOT TO SCALE



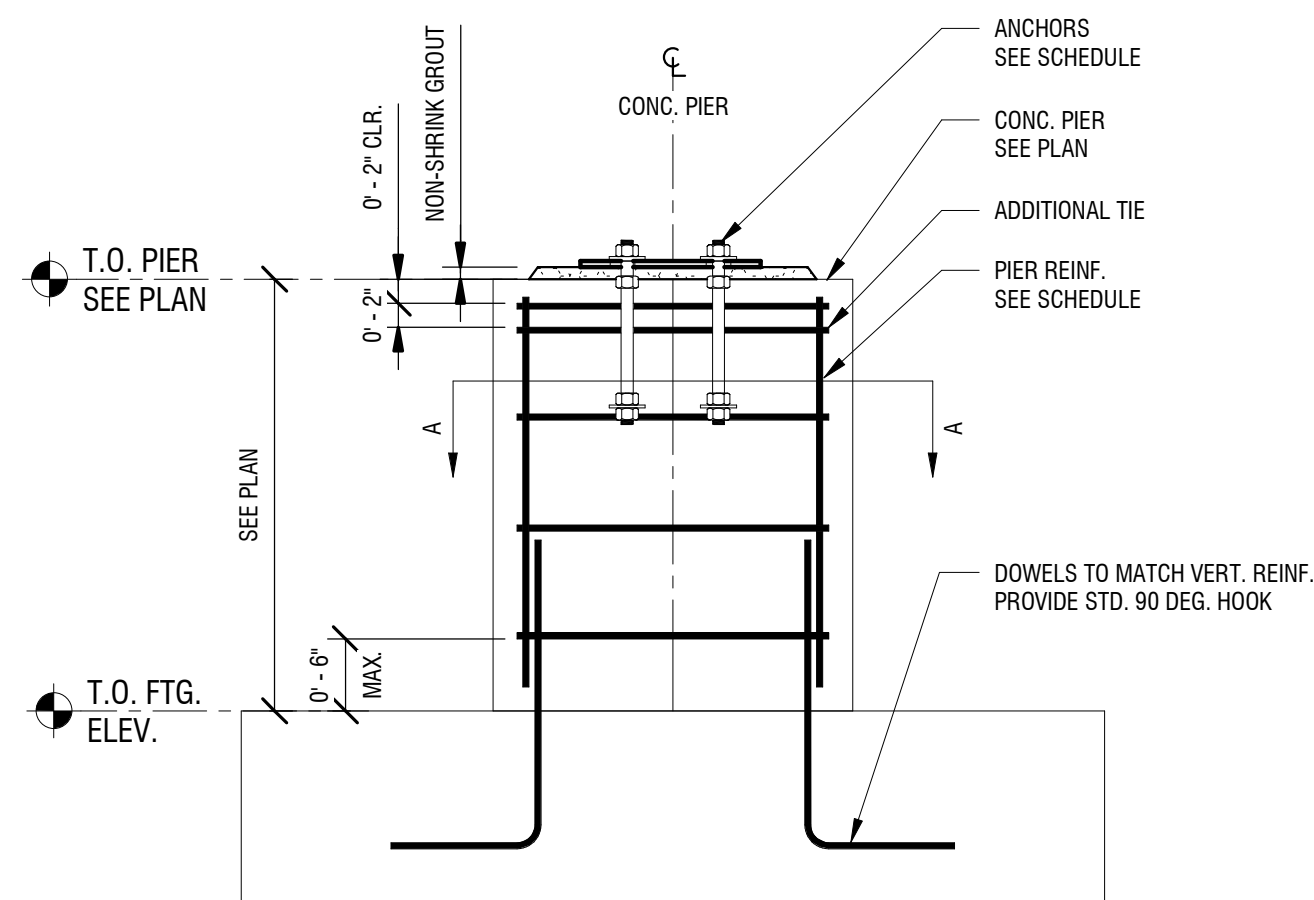
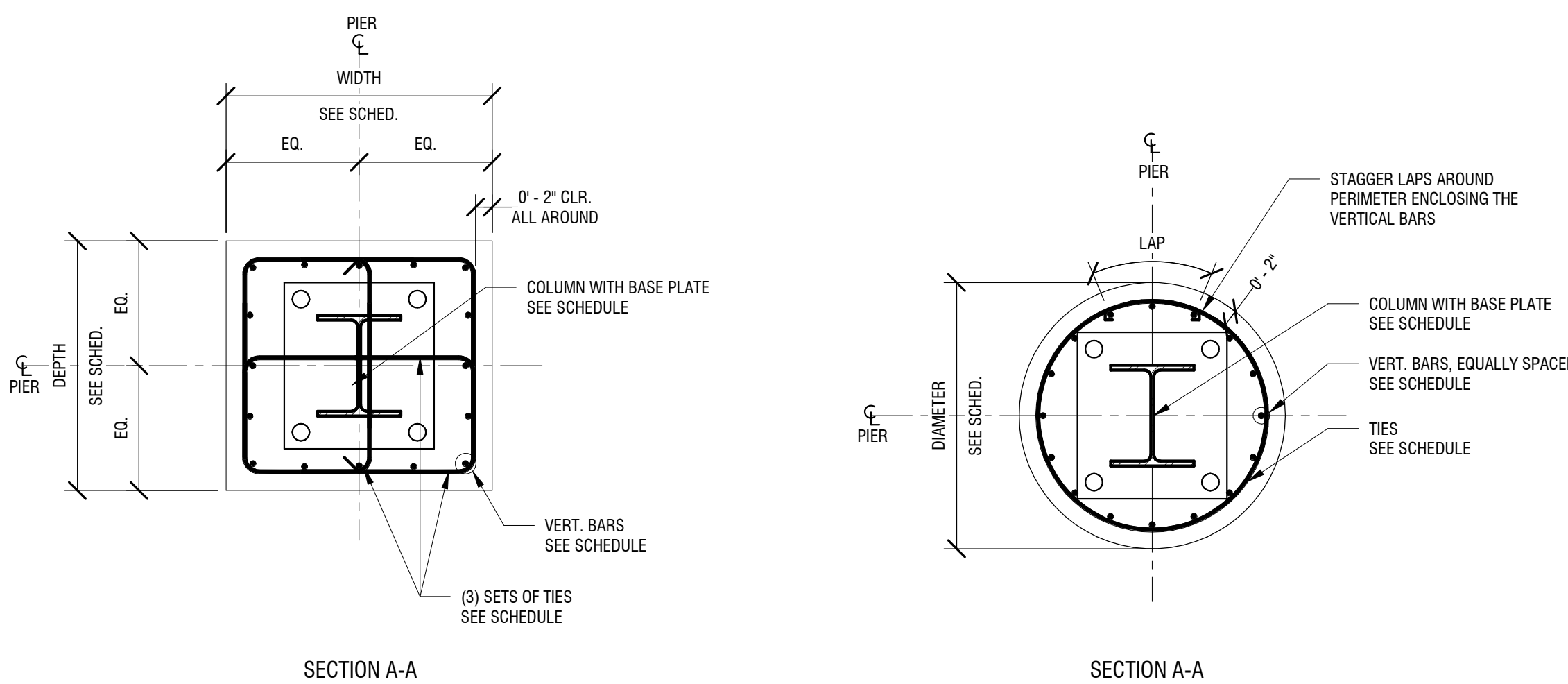
6 CONCRETE ENCASED STEEL BEAM DETAIL
S712 NOT TO SCALE



4 TYPICAL CONCRETE BEAM TO WALL CONNECTION
S712 NOT TO SCALE



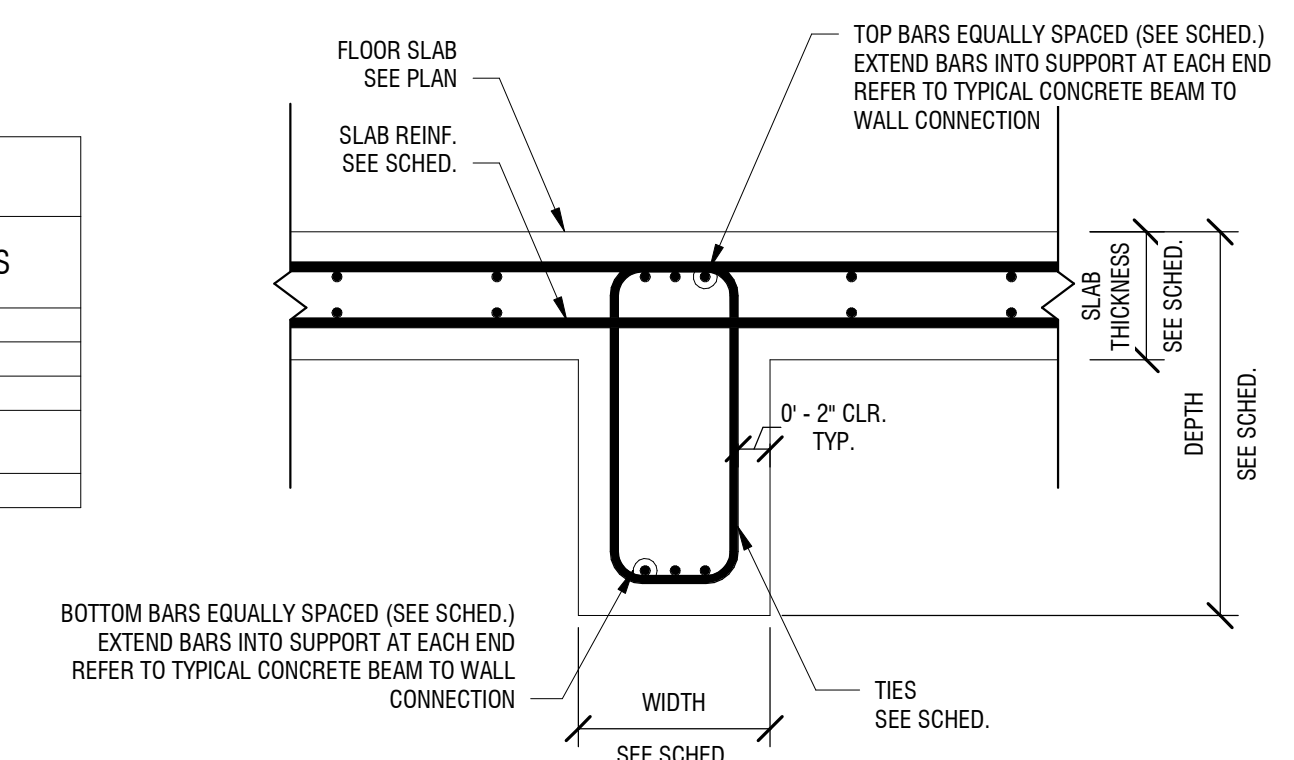
3 TYPICAL SLAB TO WALL CONNECTION
S712 NOT TO SCALE

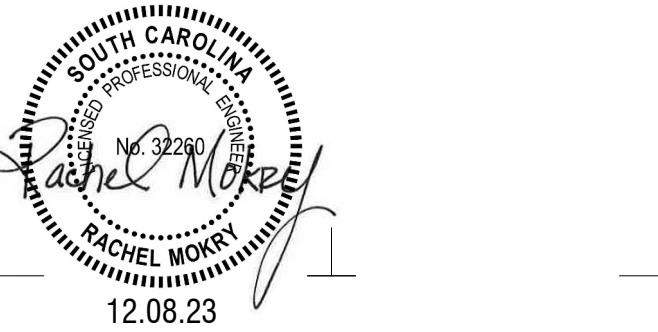


2 TYPICAL CONCRETE PIER DETAIL
S712 NOT TO SCALE

MARK	DIMENSIONS		GRADE BEAM REINFORCEMENT			COMMENTS
	DEPTH	WIDTH	BOTTOM REINF.	TOP REINF.	STIRRUPS	
CB1	2'-2"	1'-2"	(3) #8 BARS	(2) #8 BARS	#4 TIES @ 10" O.C.	
CB2	2'-0"	1'-4"	(4) #8 BARS	(2) #8 BARS	#4 TIES @ 10" O.C.	
CB3	1'-0"	1'-0"	(2) #5 BARS	(2) #5 BARS	#4 TIES @ 12" O.C.	
CB4	2'-8"	1'-6"	2 LAYERS OF (3) #8 BARS	(2) #8 BARS	#4 TIES @ 10" O.C.	
CB5	1'-0"	1'-6"	(2) #5 BARS	(2) #5 BARS	#4 TIES @ 10" O.C.	

1 CONCRETE BEAM DETAILS
S712 NOT TO SCALE





YORK COUNTY
6 CONGRESS STREET
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1159 FIELD DAY LANE
CLOVER, SC 29710

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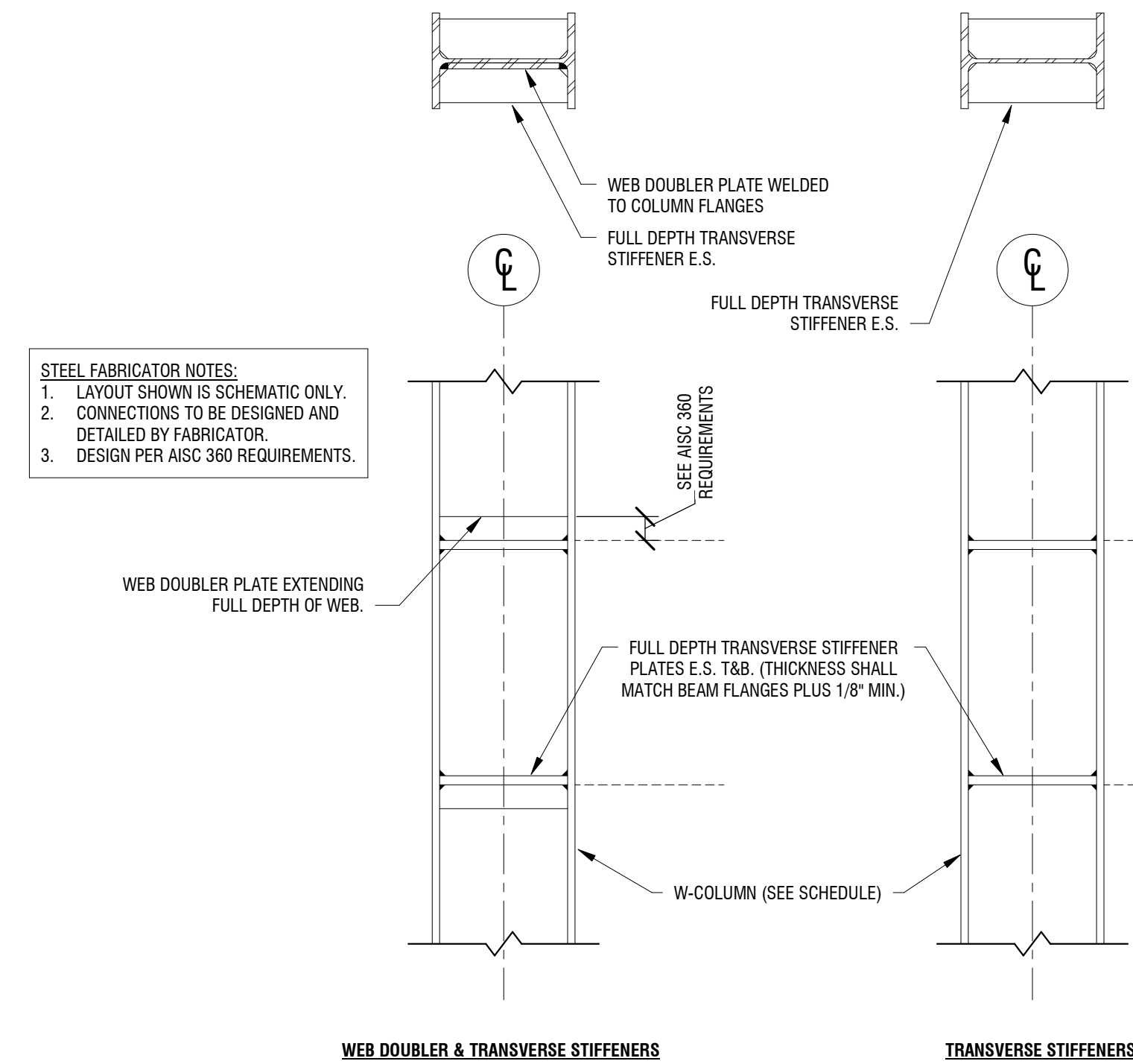
DATE: 08/03/2022

DRAWING NAME:

TYPICAL STEEL DETAILS

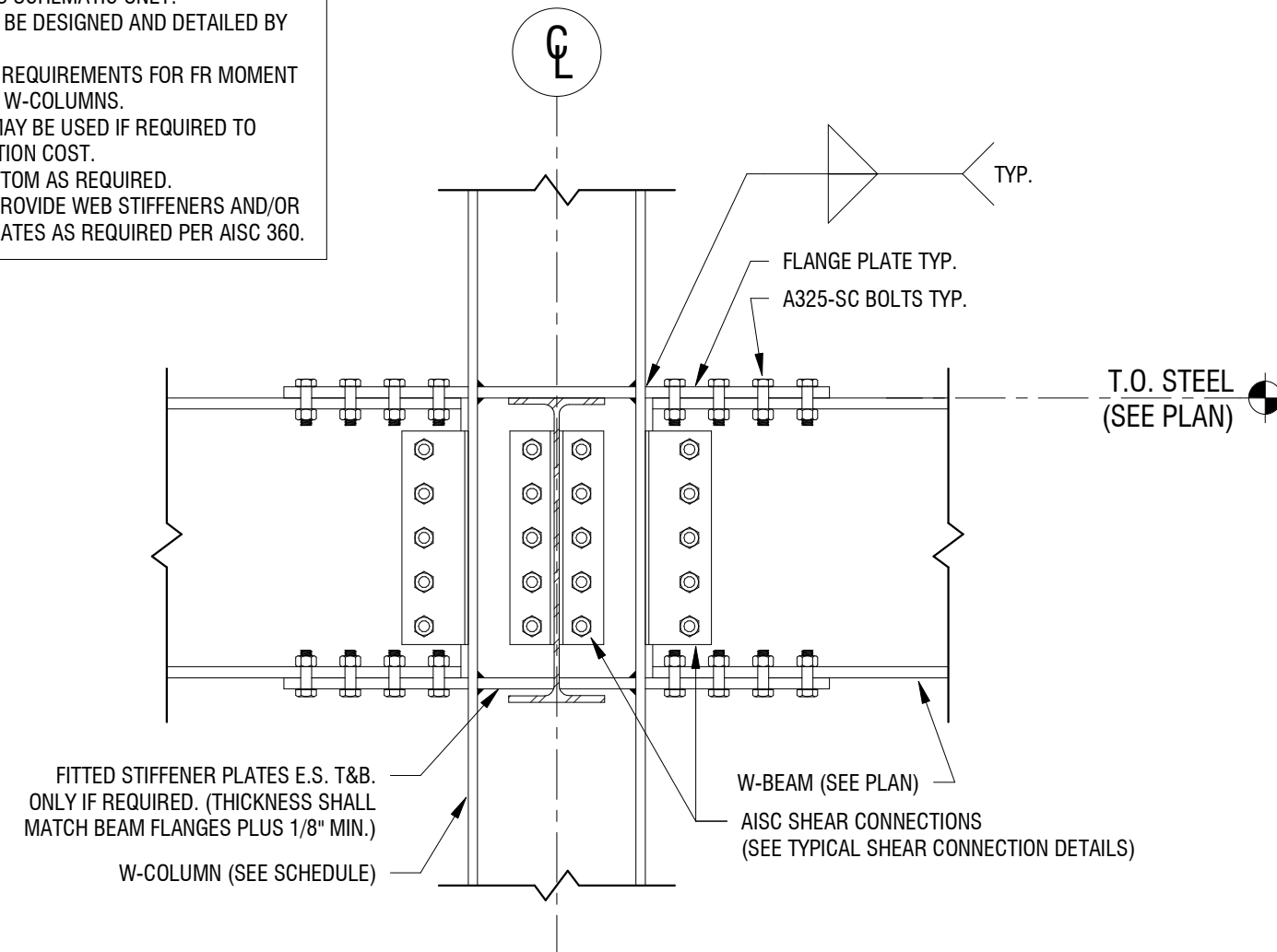
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S720



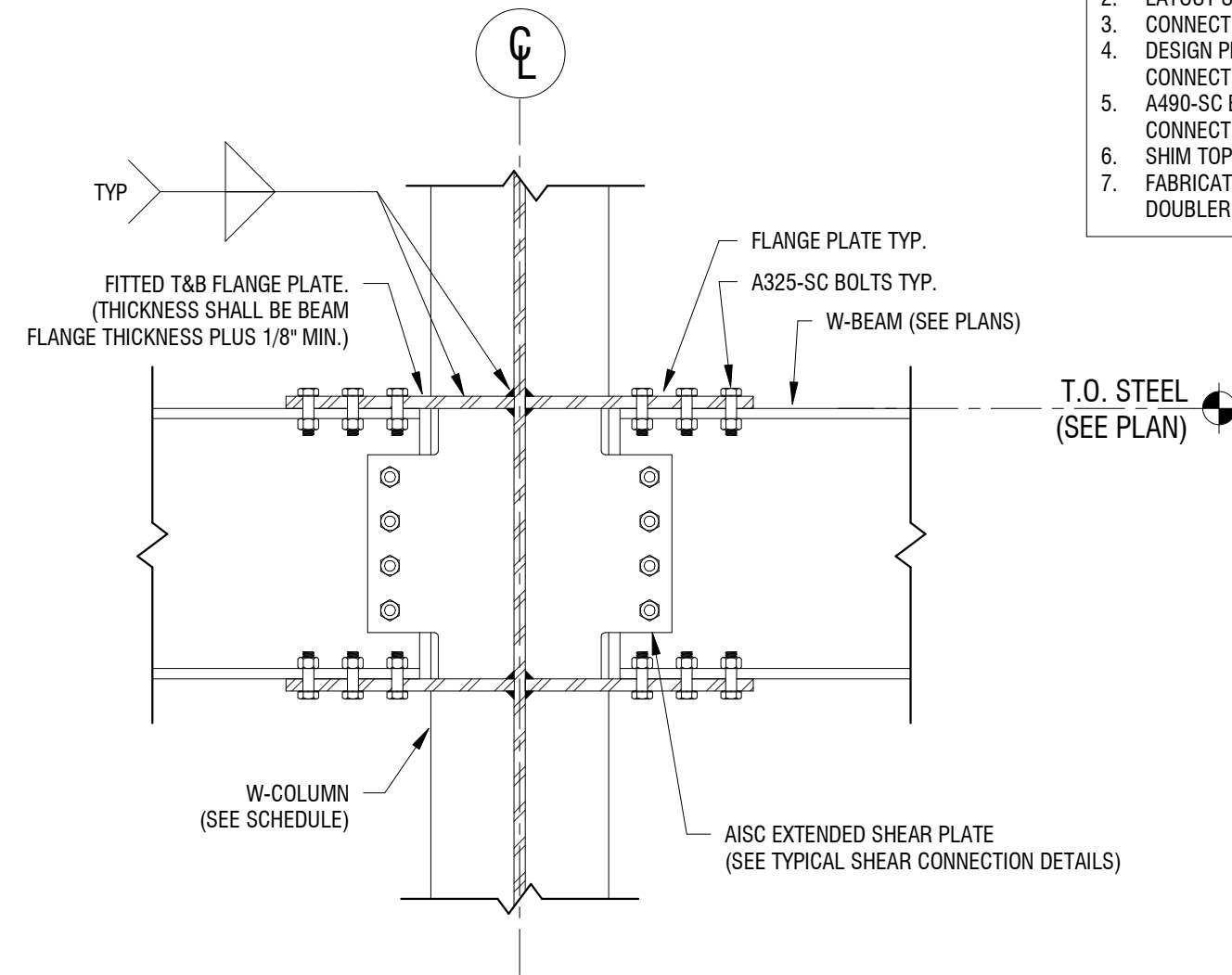
6
S720
TYPICAL W-COLUMN STIFFENER & DOUBLER PLATE
NOT TO SCALE

STEEL FABRICATOR NOTES:
1. CONNECTION TYPE MAY BE USED AT ALL LOCATIONS.
2. LAYOUT SHOWN IS SCHEMATIC ONLY.
3. CONNECTIONS TO BE DESIGNED AND DETAILED BY FABRICATOR.
4. DESIGN PER AISC REQUIREMENTS FOR FR MOMENT CONNECTIONS TO W-COLUMNS.
5. A490-SC BOLTS MAY BE USED IF REQUIRED TO REDUCE CONNECTION COST.
6. SHIM TOP OR BOTTOM AS REQUIRED.
7. FABRICATOR TO PROVIDE WEB STIFFENERS AND/OR WEB DOUBLER PLATES AS REQUIRED PER AISC 360.



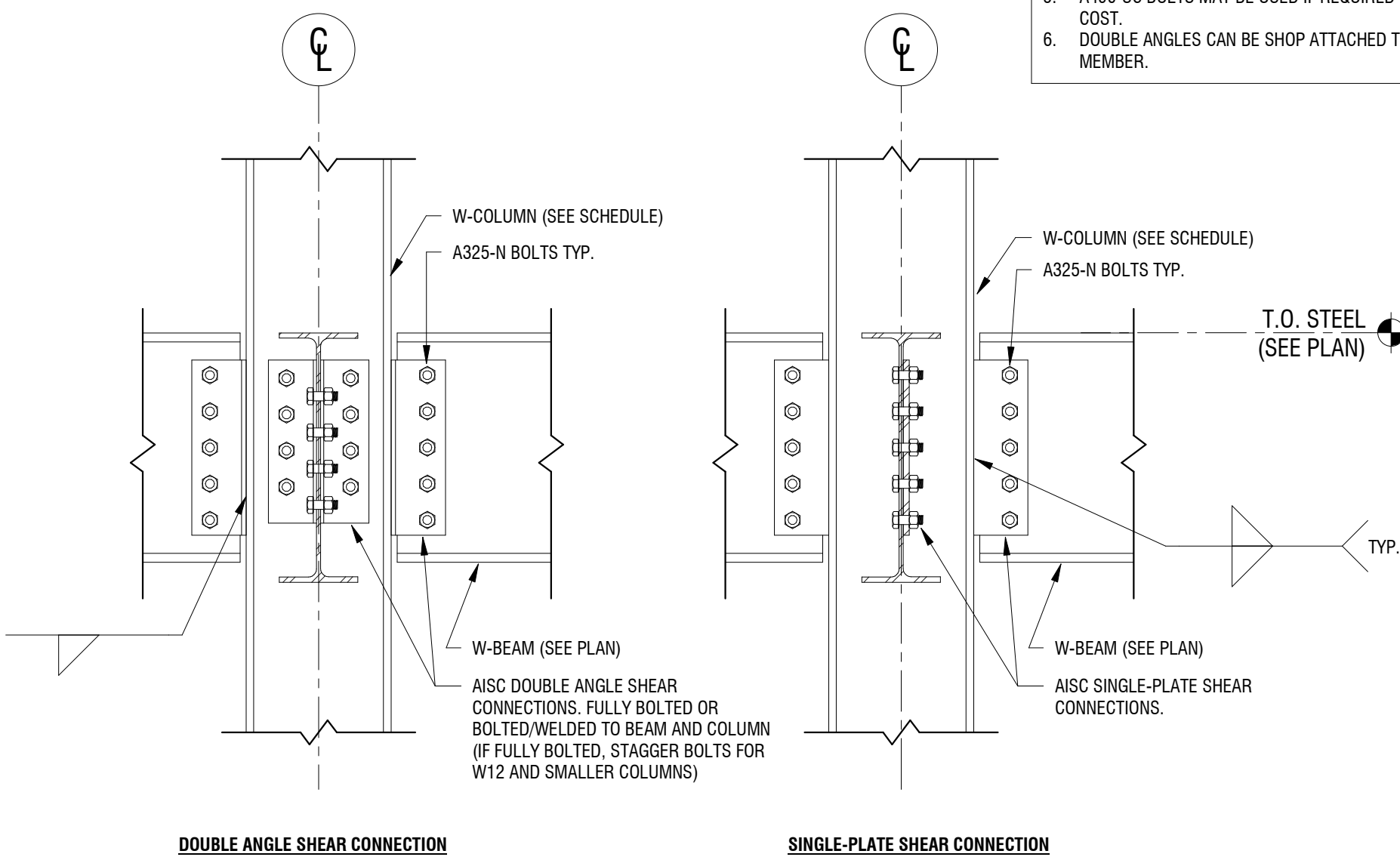
5
S720
TYPICAL W-BEAM TO W-COLUMN FLANGE PLATED MOMENT CONNECTION
NOT TO SCALE

STEEL FABRICATOR NOTES:
1. CONNECTION TYPE MAY BE USED AT ALL LOCATIONS.
2. LAYOUT SHOWN IS SCHEMATIC ONLY.
3. CONNECTIONS TO BE DESIGNED AND DETAILED BY FABRICATOR.
4. DESIGN PER AISC REQUIREMENTS FOR FR MOMENT CONNECTIONS TO W-COLUMNS.
5. A490-SC BOLTS MAY BE USED IF REQUIRED TO REDUCE CONNECTION COST.
6. SHIM TOP OR BOTTOM AS REQUIRED.
7. FABRICATOR TO PROVIDE WEB STIFFENERS AND/OR WEB DOUBLER PLATES AS REQUIRED PER AISC 360.



4
S720
TYPICAL W-BEAM TO W-COLUMN FLANGE PLATED MOMENT CONNECTION - WEB CONDITION
NOT TO SCALE

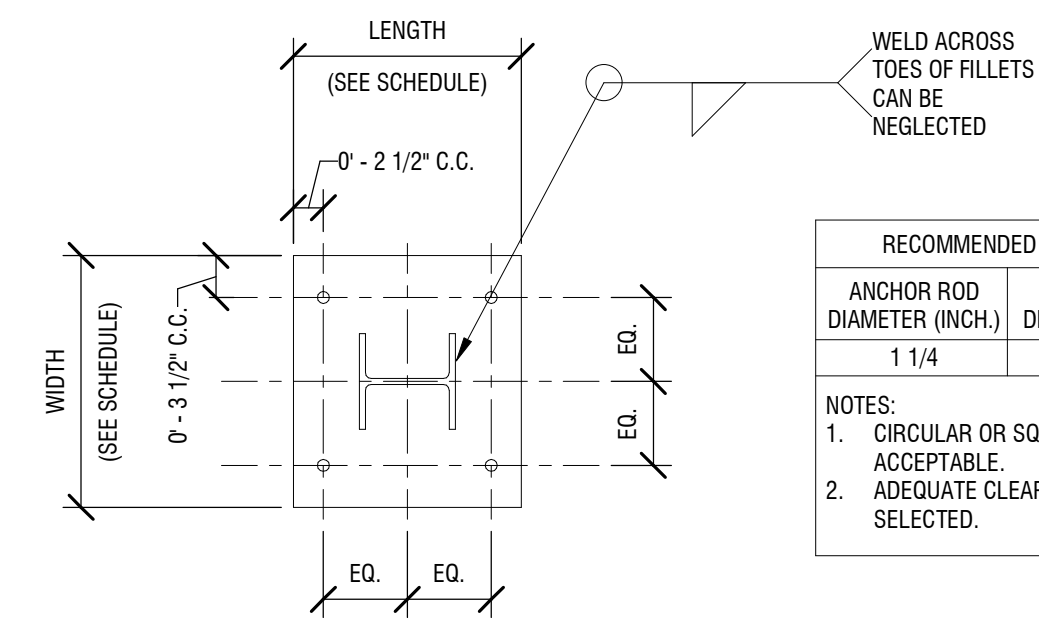
STEEL FABRICATOR NOTE:
1. CONNECTION TYPE MAY BE USED AT ALL LOCATIONS.
2. LAYOUT SHOWN IS SCHEMATIC ONLY.
3. CONNECTIONS TO BE DESIGNED AND DETAILED BY FABRICATOR.
4. DESIGN PER AISC 360 REQUIREMENTS.
5. A490-SC BOLTS MAY BE USED IF REQUIRED TO REDUCE CONNECTION COST.
6. DOUBLE ANGLES CAN BE SHOP ATTACHED TO SUPPORTING OR SUPPORTED MEMBER.



2
S720
TYPICAL W-BEAM TO W-COLUMN SHEAR CONNECTION
NOT TO SCALE

RECOMMENDED MINIMUM NUMBER OF ROWS OF BOLTS

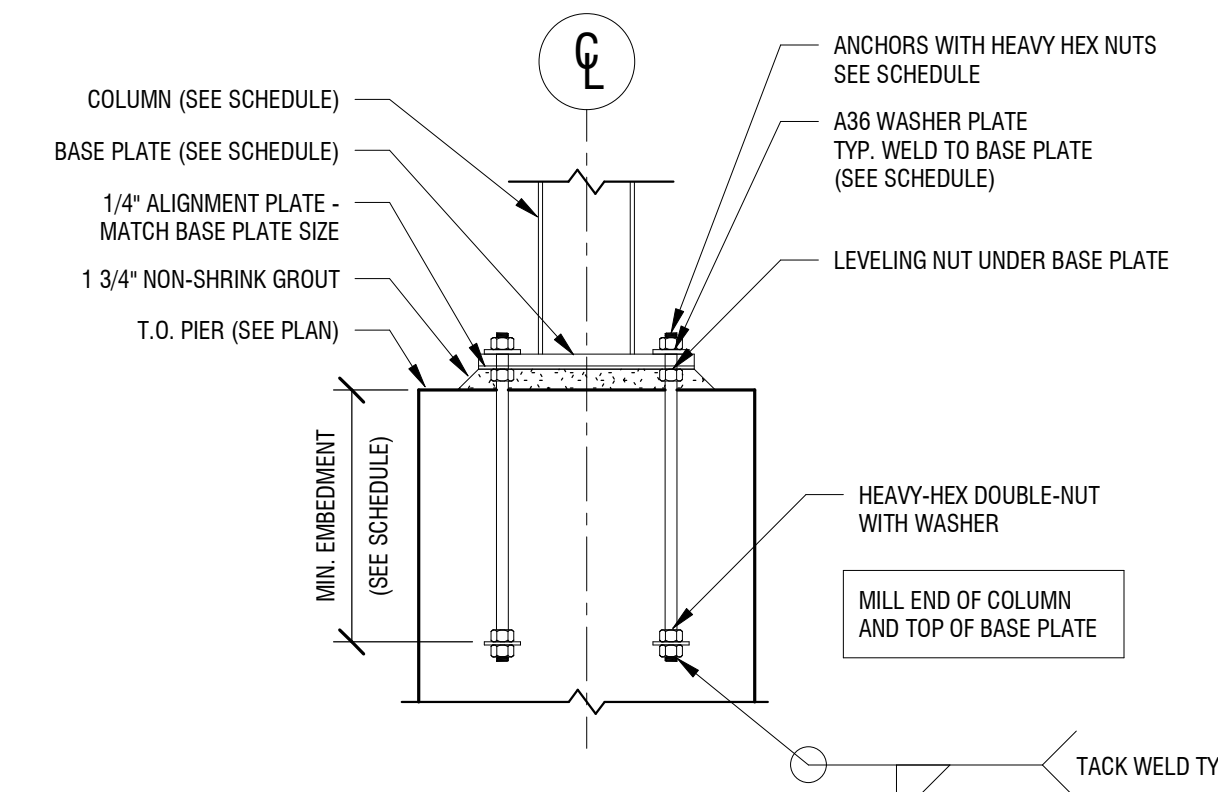
SIZE	NO. OF BOLTS
W8	2
W10	2
W12	3
W14	3
W16	4
W18	4
W21	5
W24	5
W27	6
W30	6



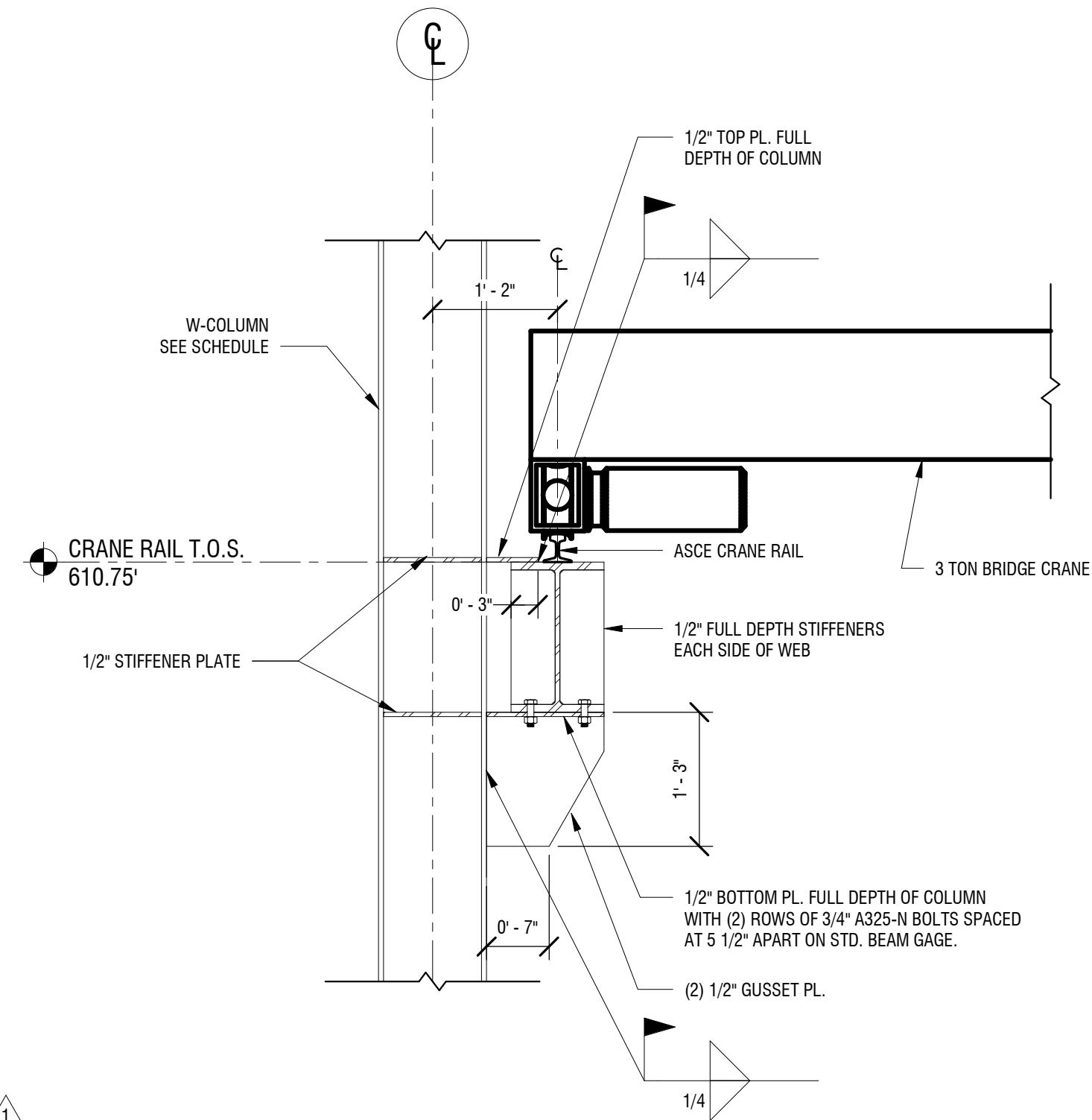
RECOMMENDED SIZES FOR ANCHOR ROD HOLES IN BASE PLATES

ANCHOR ROD DIAMETER (INCH.)	HOLE DIAMETER (INCH.)	MIN. WASHER DIMENSION (INCH.)	MIN. WASHER THICKNESS (INCH.)
1 1/4	2 1/16	3	1/2

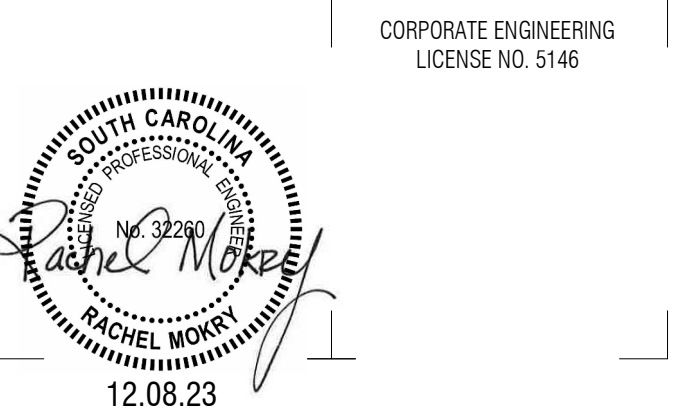
NOTES:
1. CIRCULAR OR SQUARE WASHERS MEETING THE SIZE SHOWN ARE ACCEPTABLE.
2. ADEQUATE CLEARANCE MUST BE PROVIDED FOR THE WASHER SIZE SELECTED.



1
S720
TYPICAL BASE PLATE W-SECTION
NOT TO SCALE



3
S720
CRANE SUPPORT DETAIL
3/4\"/>



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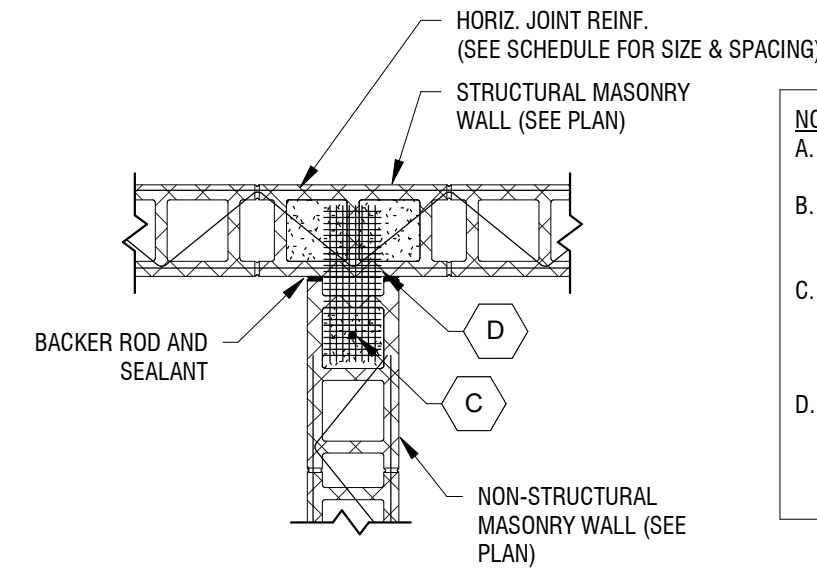
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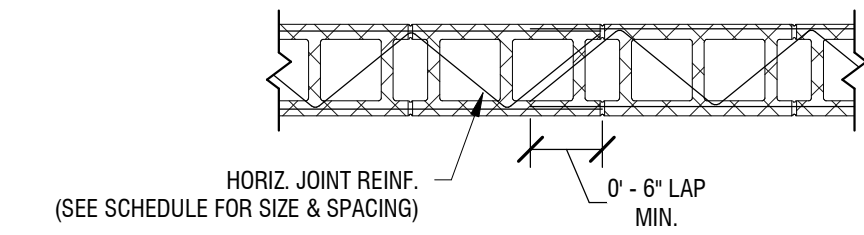
TYPICAL MASONRY DETAILS

DRAWING NUMBER:

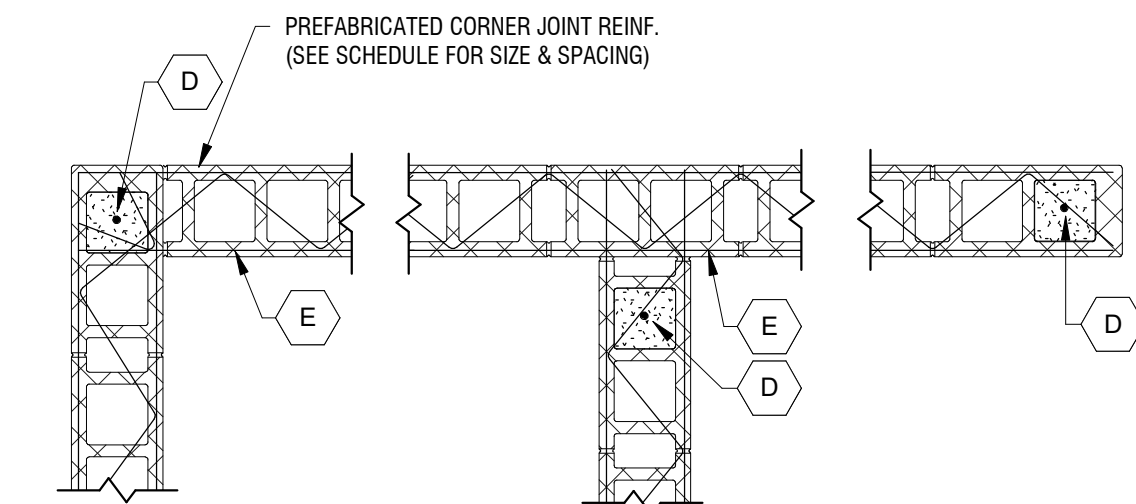
S740



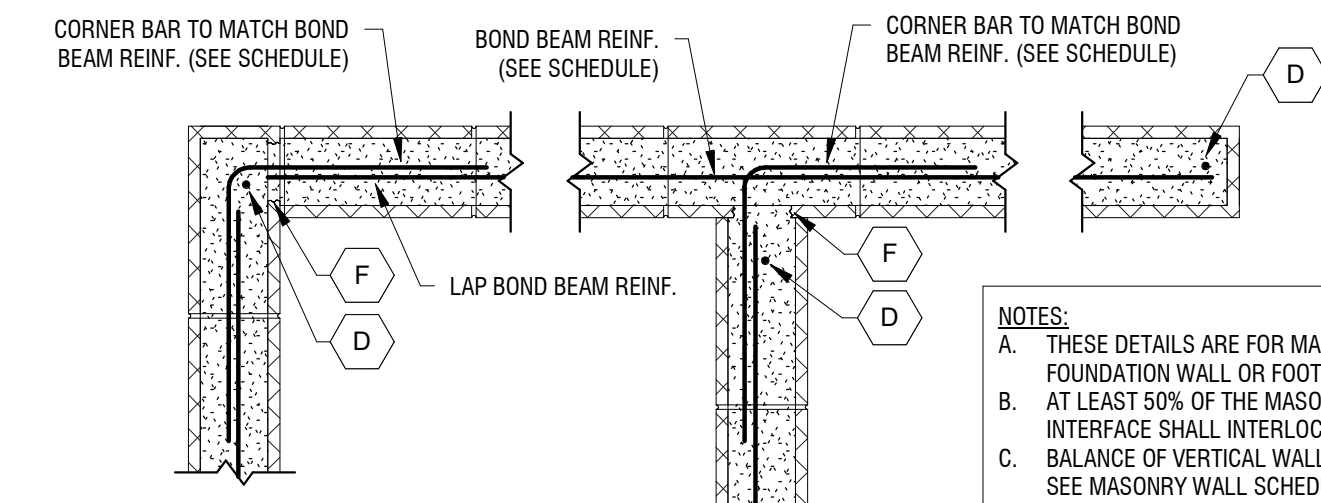
- NOTES:**
- THESE DETAILS ARE FOR INTERSECTIONS OF NON-STRUCTURAL TO STRUCTURAL MASONRY WALLS.
 - BALANCE OF VERTICAL WALL REINFORCEMENT NOT SHOWN FOR CLARITY. SEE MASONRY WALL SCHEDULE FOR SIZE AND SPACING.
 - ADDITIONAL VERTICAL BARS TO MATCH WALL REINFORCEMENT. RUN FULL HEIGHT OF WALL & DOWEL INTO FOUNDATION. ADDITIONAL BARS SHALL BE LOCATED WITHIN 8 INCHES OF CORNER OR WALL END.
 - USE PREFABRICATED MESH WALL TIE @ 16" O.C. MAX VERTICALLY. LOCATE AT ALL COURSES WITH HORIZONTAL REINFORCEMENT. SEE MASONRY WALL SCHEDULE FOR REINFORCING SIZE AND SPACING.



HORIZONTAL JOINT REINF. LAP



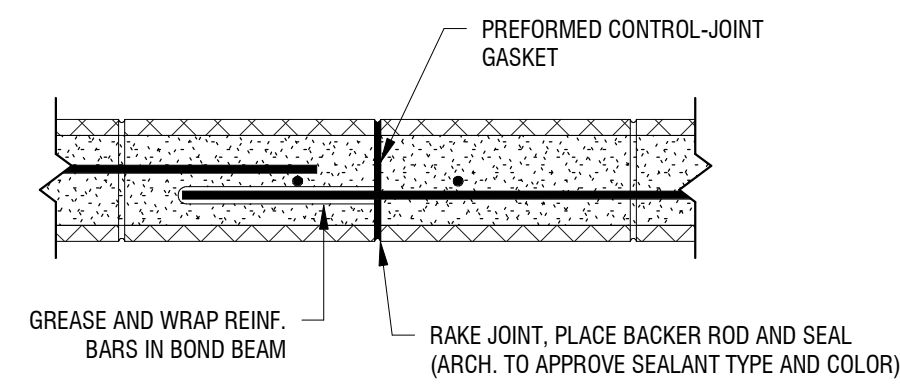
HORIZONTAL JOINT REINF.



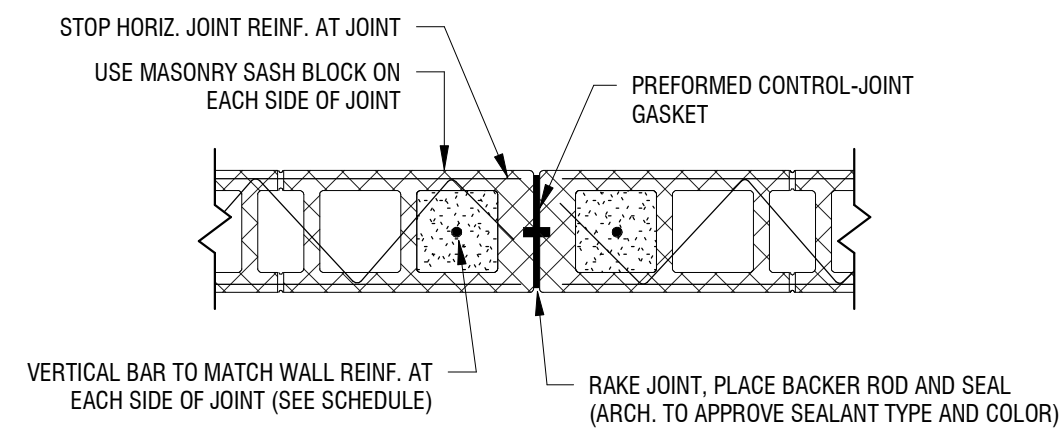
BOND BEAM REINF.

- NOTES:**
- THESE DETAILS ARE FOR MASONRY WALLS SUPPORTED ON A CONTINUOUS FOUNDATION WALL OR FOOTING.
 - AT LEAST 50% OF THE MASONRY UNITS AT THE CORNER OR INTERSECTION INTERFACE SHALL INTERLOCK.
 - BALANCE OF VERTICAL WALL REINFORCEMENT NOT SHOWN FOR CLARITY. SEE MASONRY WALL SCHEDULE FOR SIZE AND SPACING.
 - ADDITIONAL VERTICAL BARS TO MATCH WALL REINFORCEMENT. RUN FULL HEIGHT OF WALL & DOWEL INTO FOUNDATION. ADDITIONAL BARS SHALL BE LOCATED WITHIN 8 INCHES OF CORNER OR WALL END.
 - USE PREFABRICATED CORNER AND INTERSECTION BOND BEAM UNITS OR REMOVE FACE SHELL TO ACCOMMODATE REINFORCEMENT BARS & GROUT.

6 TYPICAL NON-STRUCTURAL TO STRUCTURAL MASONRY WALL
NOT TO SCALE



TYPICAL PLAN AT BOND BEAM



TYPICAL PLAN AT WALL

CONTROL JOINT SPACING CRITERIA:

- USE THE LESSER OF THE FOLLOWING:
- 25' - 0" ON CENTER MAXIMUM
 - 1.5 MAXIMUM LENGTH TO HEIGHT RATIO.
 - AT LOCATIONS INDICATED ON STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS.
- ADDITIONAL LOCATIONS:**
- AT CHANGES IN WALL HEIGHT.
 - AT CHANGES IN WALL THICKNESS.
 - LOCATED ABOVE MOVEMENT JOINTS IN FOUNDATIONS OR FLOORS.
 - LOCATED ABOVE AND BELOW MOVEMENT JOINTS IN ROOFS OR FLOORS THAT BEAR ON WALL.
 - ADJACENT TO CORNER OF INTERSECTIONS WITHIN A DISTANCE EQUAL TO HALF THE CONTROL JOINT SPACING.
 - 2' - 0" MINIMUM AWAY FROM FACE OF OPENINGS.
 - COORDINATE WITH VENEER LOCATIONS.

MAXIMUM MASONRY OPENING	TYPICAL LINTEL SCHEDULE			
	4" WALL/BRICK	6" WALL	8" WALL	12" WALL
4'-6"	L3 1/2 X 3 1/2 X 5/16 (LLV)	WT4X9	(2) - L3 1/2 X 3 1/2 X 5/16 (LLV)	(3) - L3 1/2 X 3 1/2 X 5/16 (LLV)
5'-6"	L4 X 3 1/2 X 5/16 (LLV)	WT4X10.5	(2) - L4 X 3 1/2 X 5/16 (LLV)	(3) - L4 X 3 1/2 X 5/16 (LLV)
6'-6"	L5 X 3 1/2 X 5/16 (LLV)	WT5X13	(2) - L5 X 3 1/2 X 5/16 (LLV)	(3) - L5 X 3 1/2 X 5/16 (LLV)
7'-6"	L6 X 3 1/2 X 5/16 (LLV)	WT5X15	(2) - L6 X 3 1/2 X 5/16 (LLV)	(3) - L6 X 3 1/2 X 5/16 (LLV)
9'-0"	-	WBX10 + PL. 5/16" X 5 1/2"	WBX10 + PL. 5/16" X 7 1/2"	WBX15 + PL. 5/16" X 11 1/2"
10'-6"	-	WBX15 + PL. 5/16" X 5 1/2"	WBX15 + PL. 5/16" X 7 1/2"	WBX18 + PL. 5/16" X 11 1/2"

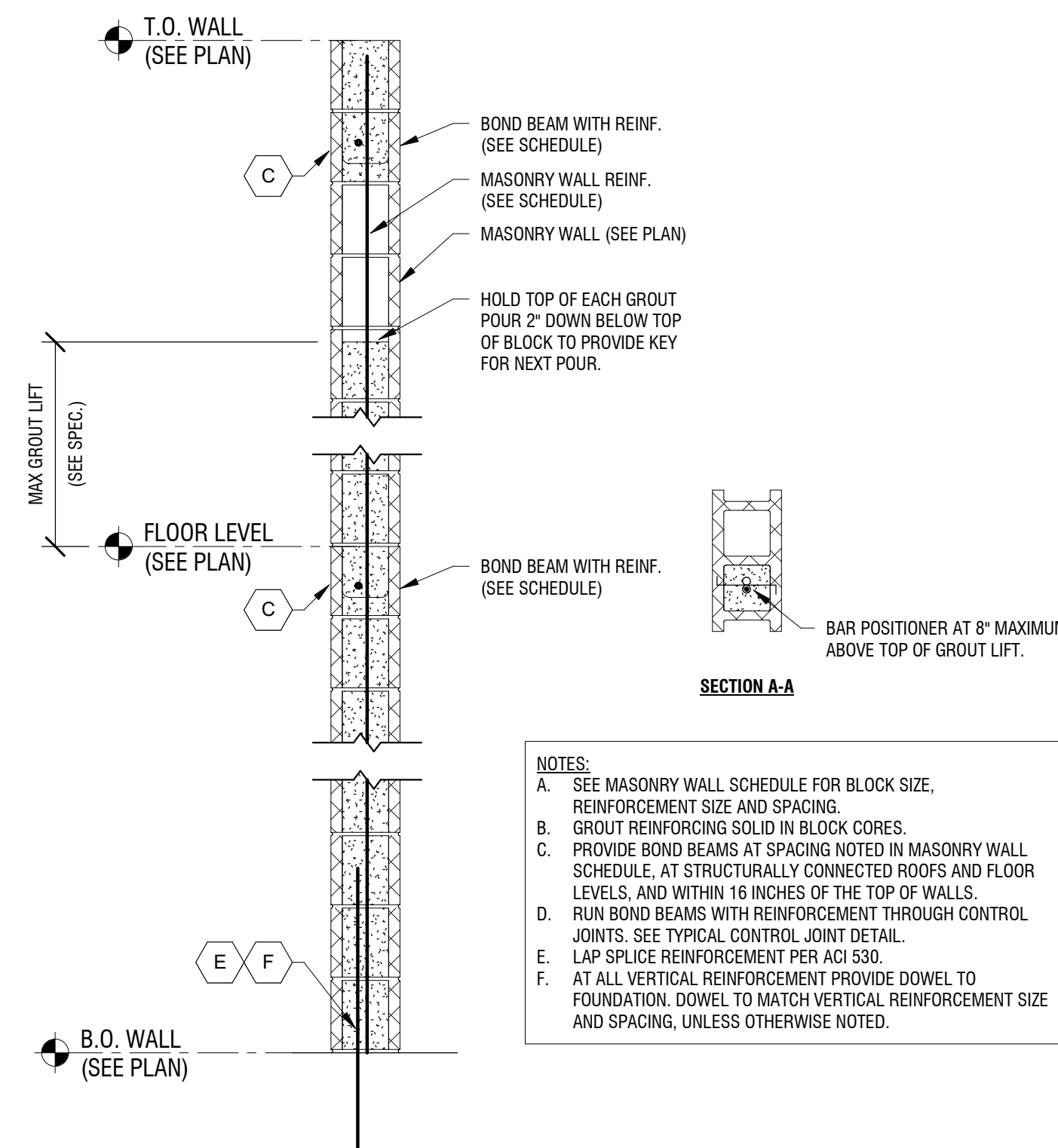
NOTES:

- UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS, PROVIDE AND INSTALL LINTELS FOR MASONRY OPENINGS IN ACCORDANCE WITH THE ABOVE SCHEDULE.
- LINTELS SHALL BEAR 1" PER FOOT OF LENGTH BUT NOT LESS THAN 8" AT EACH END UNLESS OTHERWISE NOTED.
- BLOCK WALLS SHALL BE GROUTED SOLID BELOW BEARING X 16" LONG, MINIMUM. PROVIDE REINFORCING EACH SIDE OF DOOR OPENINGS AND GROUT FULL HEIGHT.
- ALL OPENINGS GREATER THAN 1'-0" REQUIRE A LINTEL. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL MASONRY OPENINGS NOT SHOWN.
- ALL WF LINTELS SHALL HAVE 1/2" DIA. X 6" LONG STUD ANCHORS OR WALL REINFORCING WELDED TO THEIR TOP FLANGE @ 16" O.C. WALL REINFORCING SHALL BE WELDED TO LINTEL AT SPACING INDICATED. GROUT ALL REINFORCED CELLS.
- FOR CAVITY WALLS, EACH WYTHE SHALL BE TREATED INDEPENDENTLY.
- ALL COMPONENT PARTS OF LINTELS SHALL BE PAINTED PER THE SPECIFICATIONS.
- CONTACT STRUCTURAL ENGINEER FOR OPENINGS GREATER THAN 10'-6".
- SHORE EXISTING WALLS PRIOR TO CONSTRUCTING ANY OPENINGS.
- FOLLOW BRICK INSTITUTE OF AMERICA RECOMMENDATIONS WHERE LINTELS INTERSECT VERTICAL RELIEF JOINTS.
- AT LOCATIONS W/ CAVITIES IN WALL MAKE UP, PROVIDE ANGLE SIZED TO CLOSE OFF OPENING AND WELDED TO ADJACENT ANGLE.

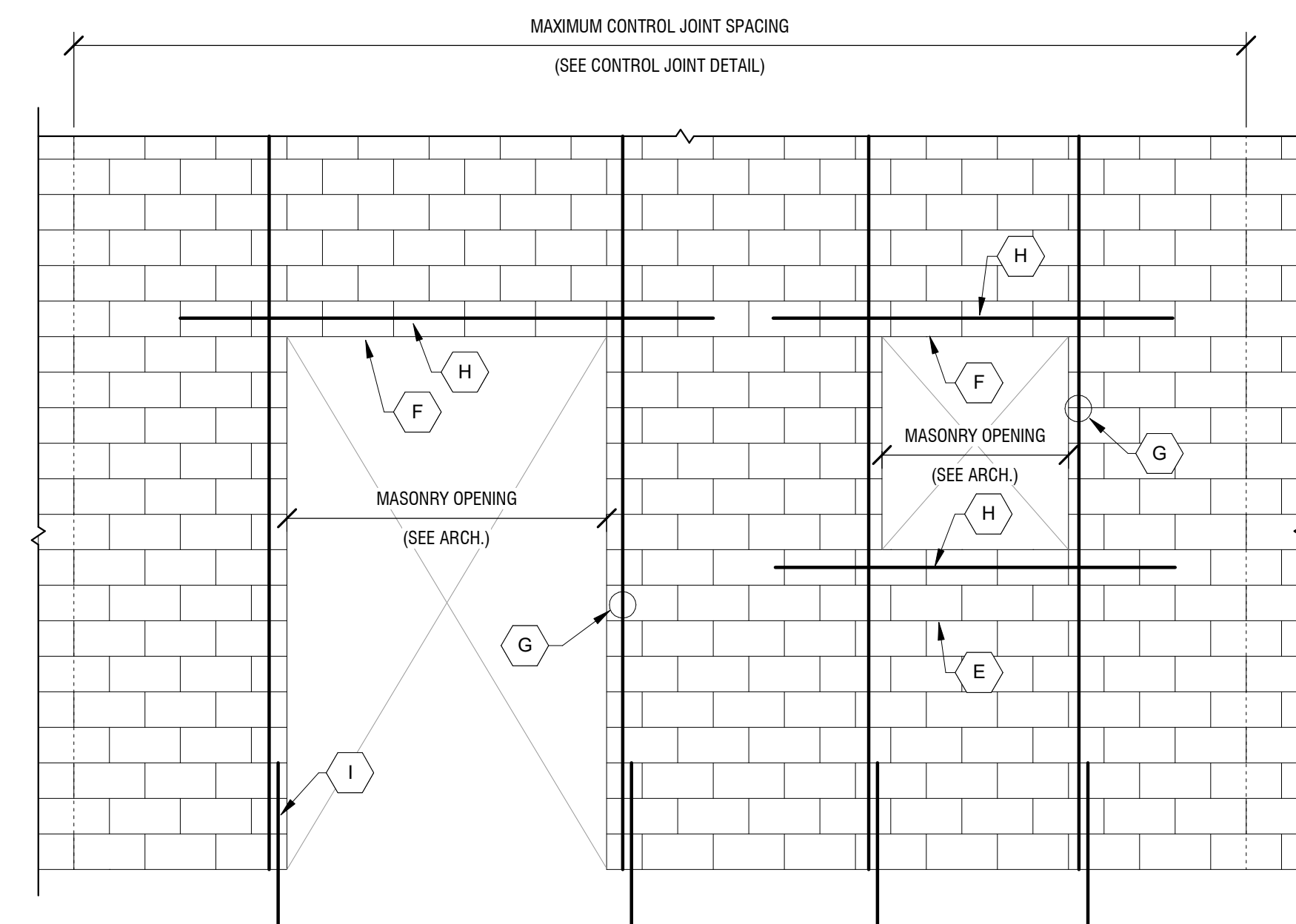
5 TYPICAL LINTEL SCHEDULE
NOT TO SCALE

4 TYPICAL MASONRY WALL CONTROL JOINT DETAILS
NOT TO SCALE

3 TYPICAL MASONRY WALL CORNER, INTERSECTION, & END
NOT TO SCALE



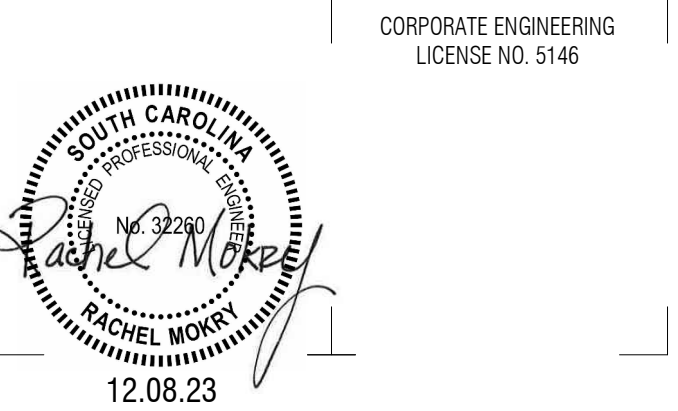
- NOTES:**
- SEE MASONRY WALL SCHEDULE FOR BLOCK SIZE, REINFORCEMENT SIZE AND SPACING.
 - GROUT REINFORCING SOLID IN BLOCK CORES.
 - PROVIDE BOND BEAMS AT SPACING NOTED IN MASONRY WALL SCHEDULE. AT STRUCTURALLY CONNECTED ROOFS AND FLOOR LEVELS, AND WITHIN 16 INCHES OF THE TOP OF WALLS.
 - RUN BOND BEAMS WITH REINFORCEMENT THROUGH CONTROL JOINTS. SEE TYPICAL CONTROL JOINT DETAIL.
 - LAP SPlice REINFORCEMENT PER ACI 530.
 - AT ALL VERTICAL REINFORCEMENT PROVIDE DOWEL TO FOUNDATION. DOWEL TO MATCH VERTICAL REINFORCEMENT SIZE AND SPACING, UNLESS OTHERWISE NOTED.



- NOTES:**
- SEE MASONRY WALL SCHEDULE FOR REINFORCEMENT SIZE & SPACING. REINFORCEMENT NOTED IN THIS DETAIL IS IN ADDITION TO THAT NOTED IN THE SCHEDULE.
 - GROUT REINFORCING SOLID IN BLOCK CORES.
 - PLACE CONTROL JOINTS AWAY FROM THE OPENING. SEE MASONRY CONTROL JOINT DETAIL.
 - COORDINATE HEIGHTS, OPENINGS, AND LENGTHS OF WALLS WITH ARCHITECTURAL DRAWINGS.
 - PROVIDE HORIZONTAL JOINT REINFORCEMENT IN FIRST OR SECOND MORTAR JOINT BELOW BOTTOM OF OPENING FROM CONTROL JOINT TO CONTROL JOINT.
 - USE ONLY LINTEL BLOCKS FOR BOTTOM COURSE OF LINTEL OVER OPENINGS, UNLESS OTHERWISE NOTED.
 - PROVIDE JAMB BARS FOR FULL HEIGHT TO MATCH VERT. REINFORCING. JAMB BARS NOT REQUIRED FOR OPENINGS SMALLER THAN 16 INCHES UNLESS DISTRIBUTED VERTICAL REINFORCEMENT IS INTERRUPTED BY SUCH OPENING.
 - EXTEND BOND BEAM AND/OR LINTEL WITH REINFORCEMENT A MINIMUM OF 2' - 0" BUT NO LESS THAN 40 BAR DIAMETERS BEYOND EACH SIDE OF OPENING.
 - AT ALL VERTICAL REINFORCEMENT PROVIDE DOWEL TO FOUNDATION. DOWEL TO MATCH VERTICAL REINFORCEMENT SIZE AND SPACING, UNLESS OTHERWISE NOTED.

2 TYPICAL MASONRY WALL REINF.
NOT TO SCALE

1 TYPICAL MASONRY WALL OPENINGS
NOT TO SCALE



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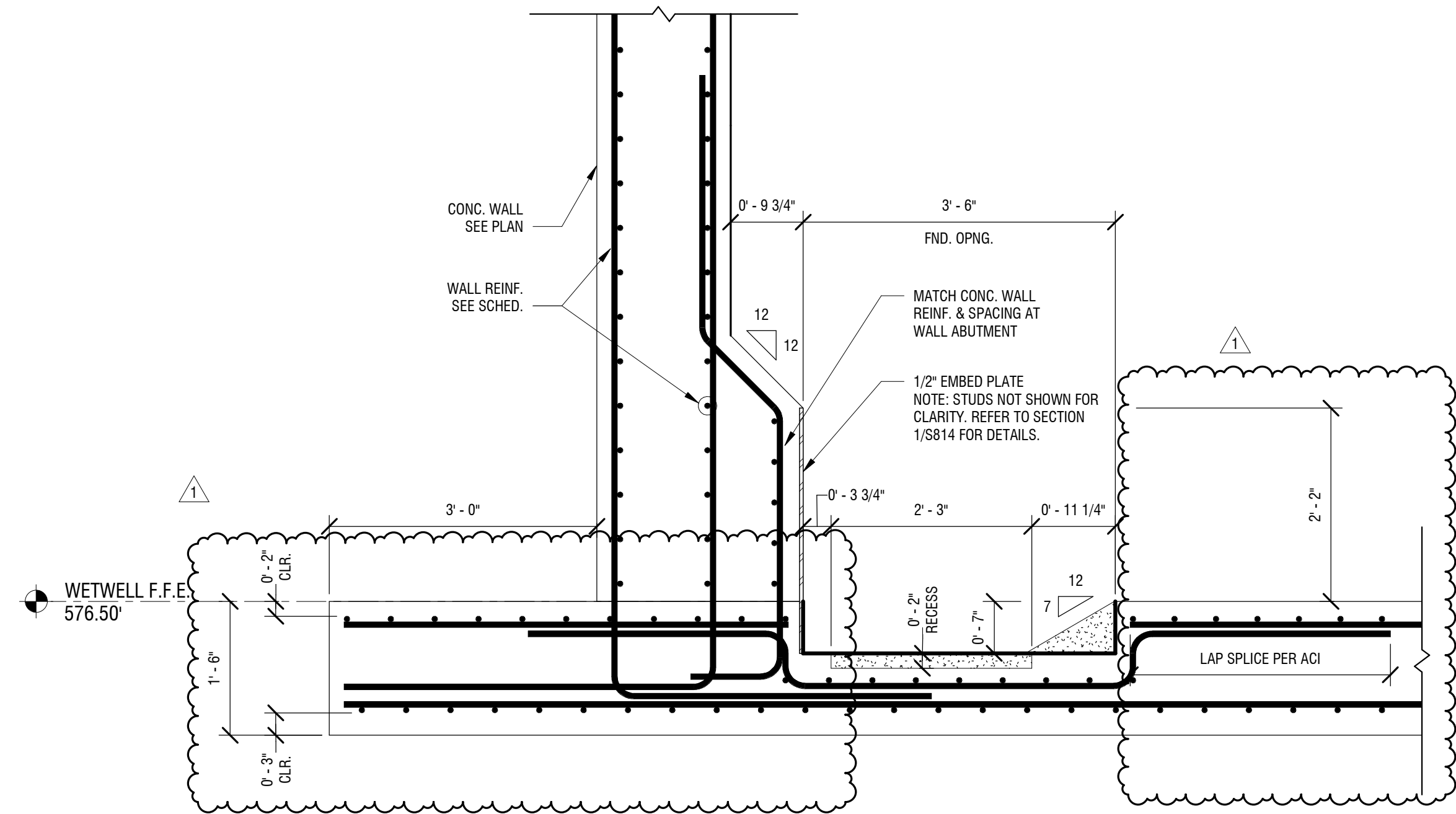
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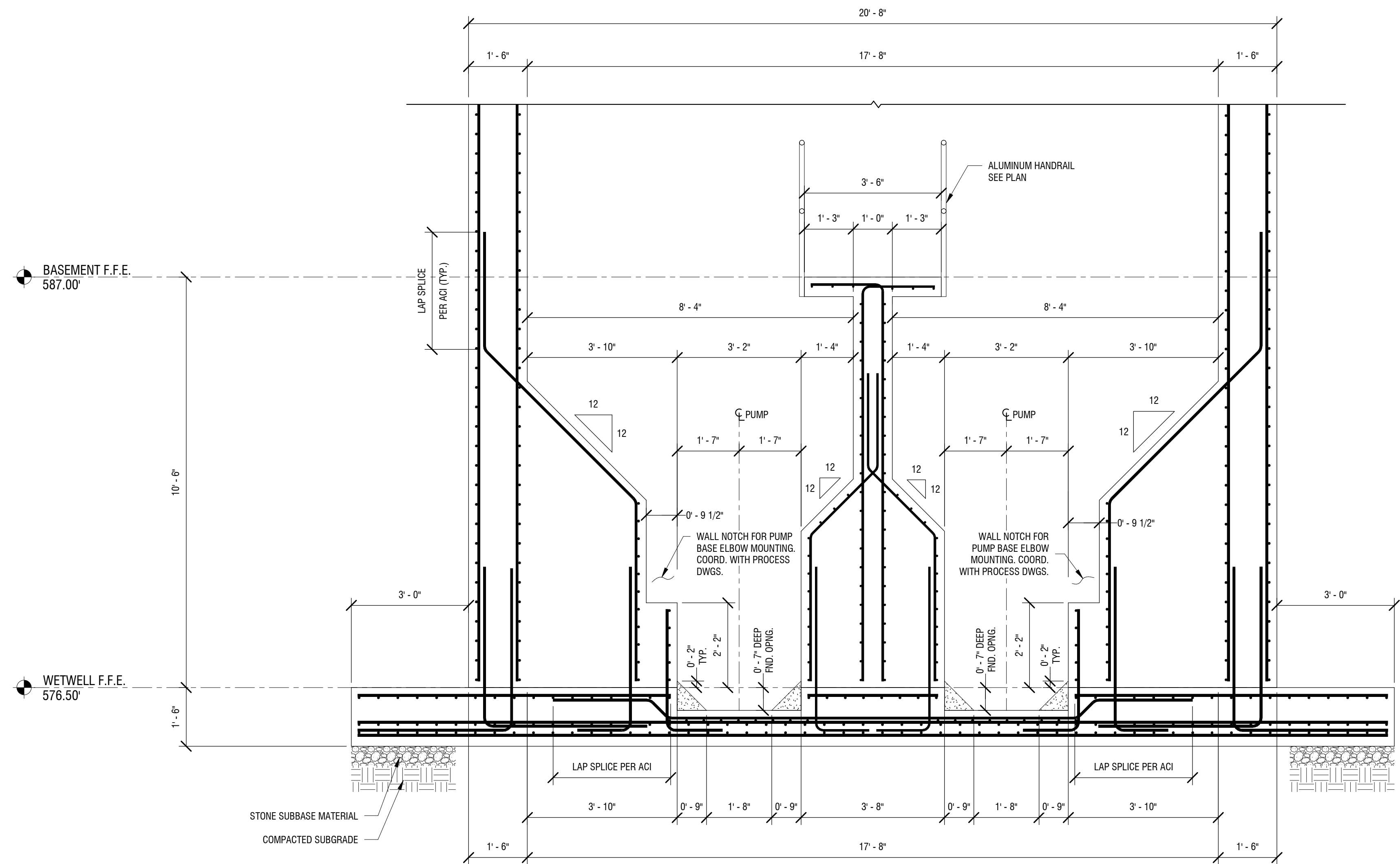
FOUNDATION SECTIONS AND DETAILS

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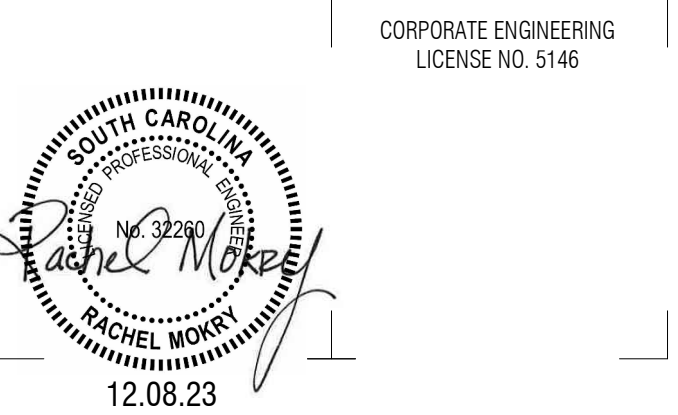
S810



2 WETWELL FOUNDATION SECTION
S810 3/4" = 1'-0"



1 WETWELL FOUNDATION SECTION
S810 1/2" = 1'-0"



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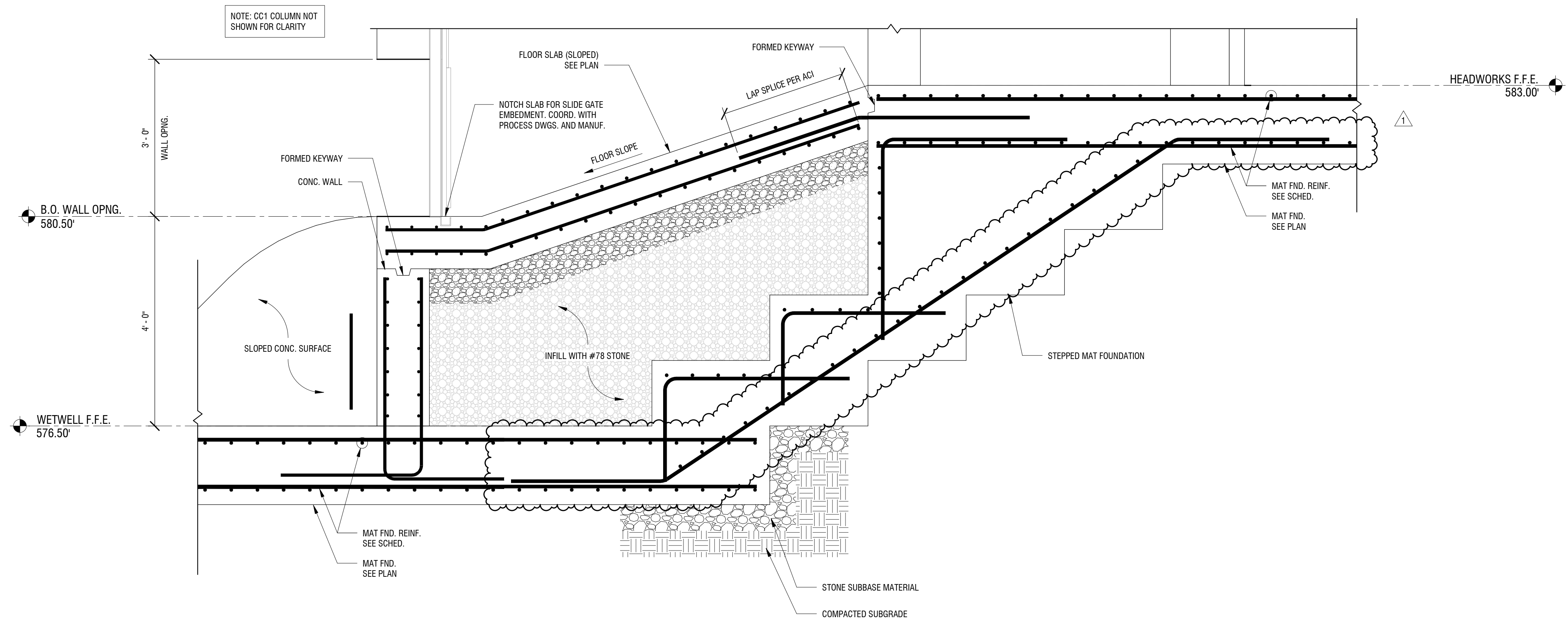
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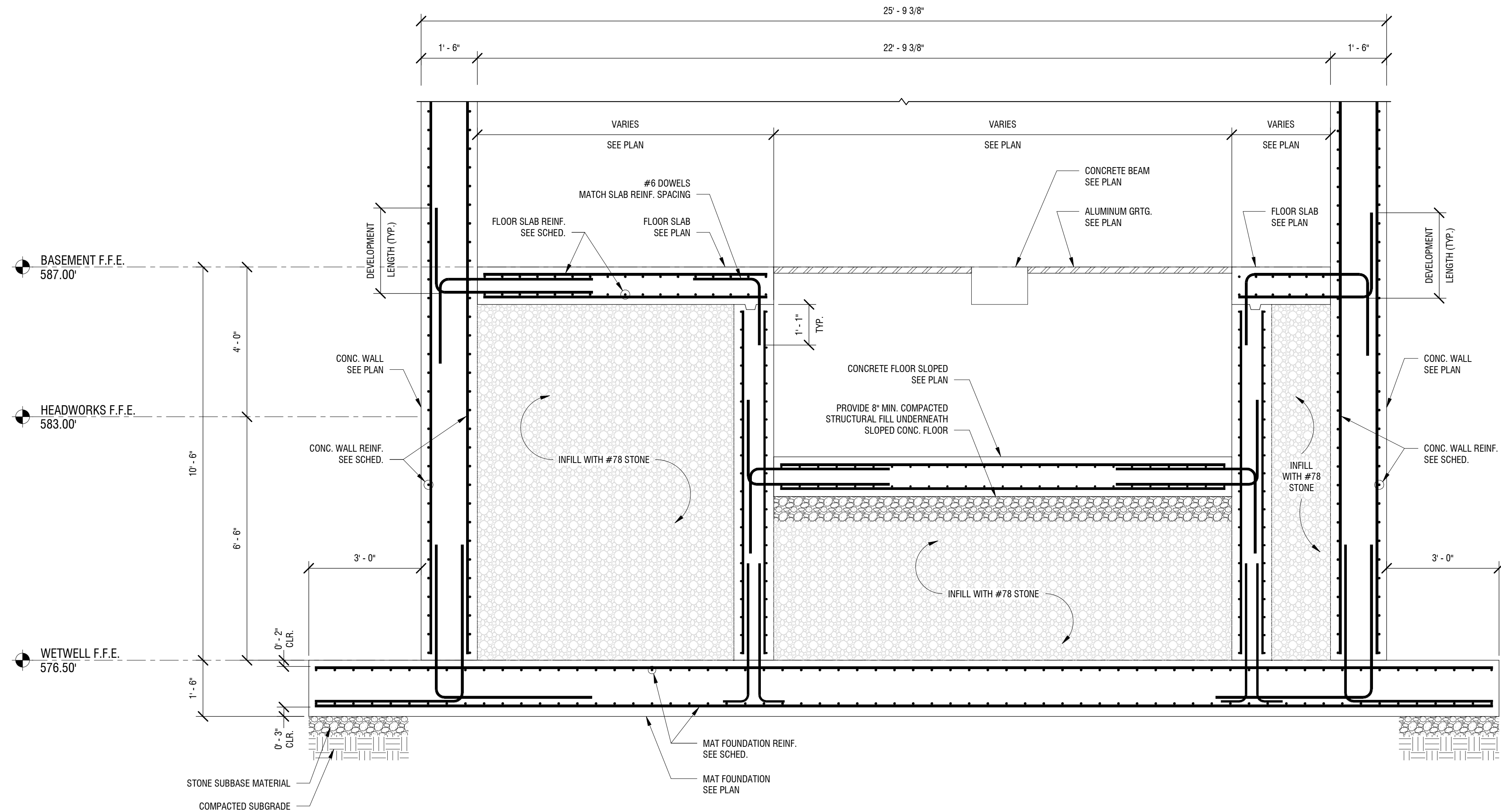
**FOUNDATION SECTIONS
AND DETAILS**

DRAWING NUMBER:

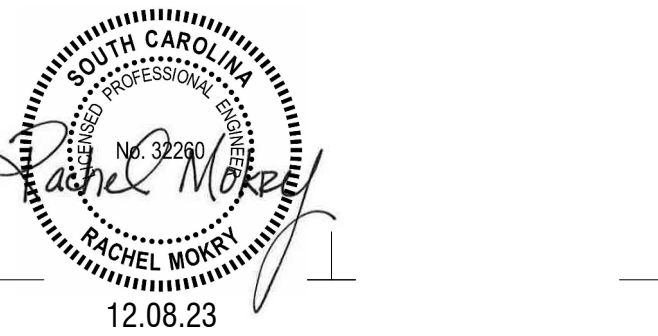
S812



2 FOUNDATION DETAIL AT SLOPED FLOOR
3/4" = 1'-0"



1 HEADWORKS FOUNDATION SECTION
1/2" = 1'-0"



YORK COUNTY
6 CONGRESS STREET
YORK, SC 29745

**Crowders Creek Pump Station
Replacement**
1159 FIELD DAY LANE
CLOVER, SC 29710

NO.	DATE	ADDENDUM	DESCRIPTION
1	12/08/2023		

PROJECT NUMBER: 2213042

DRAWN BY: RM
REVIEWED BY: DRH

ISSUED FOR: ISSUED FOR REVIEW

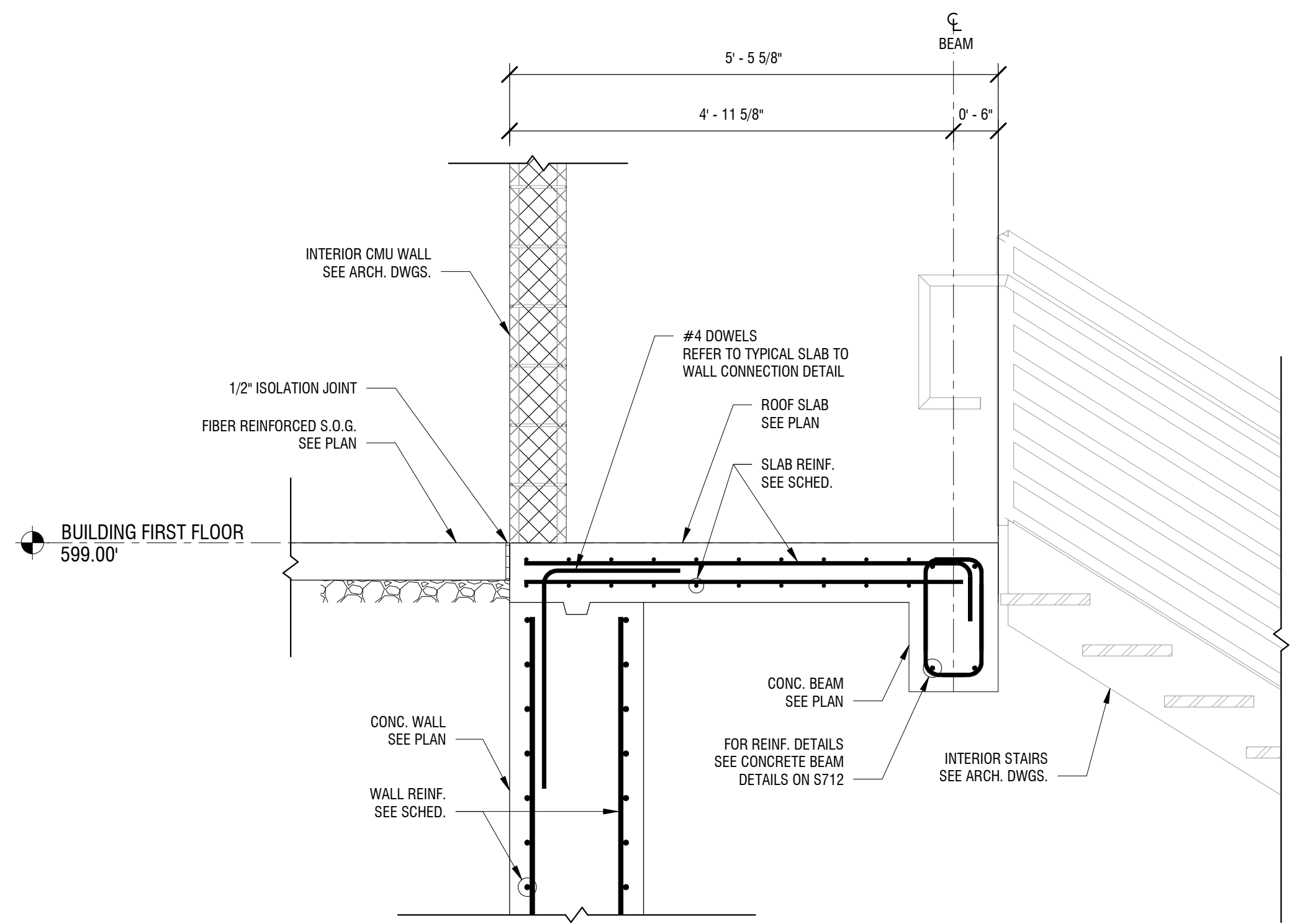
DATE: 08/03/2022

DRAWING NAME:

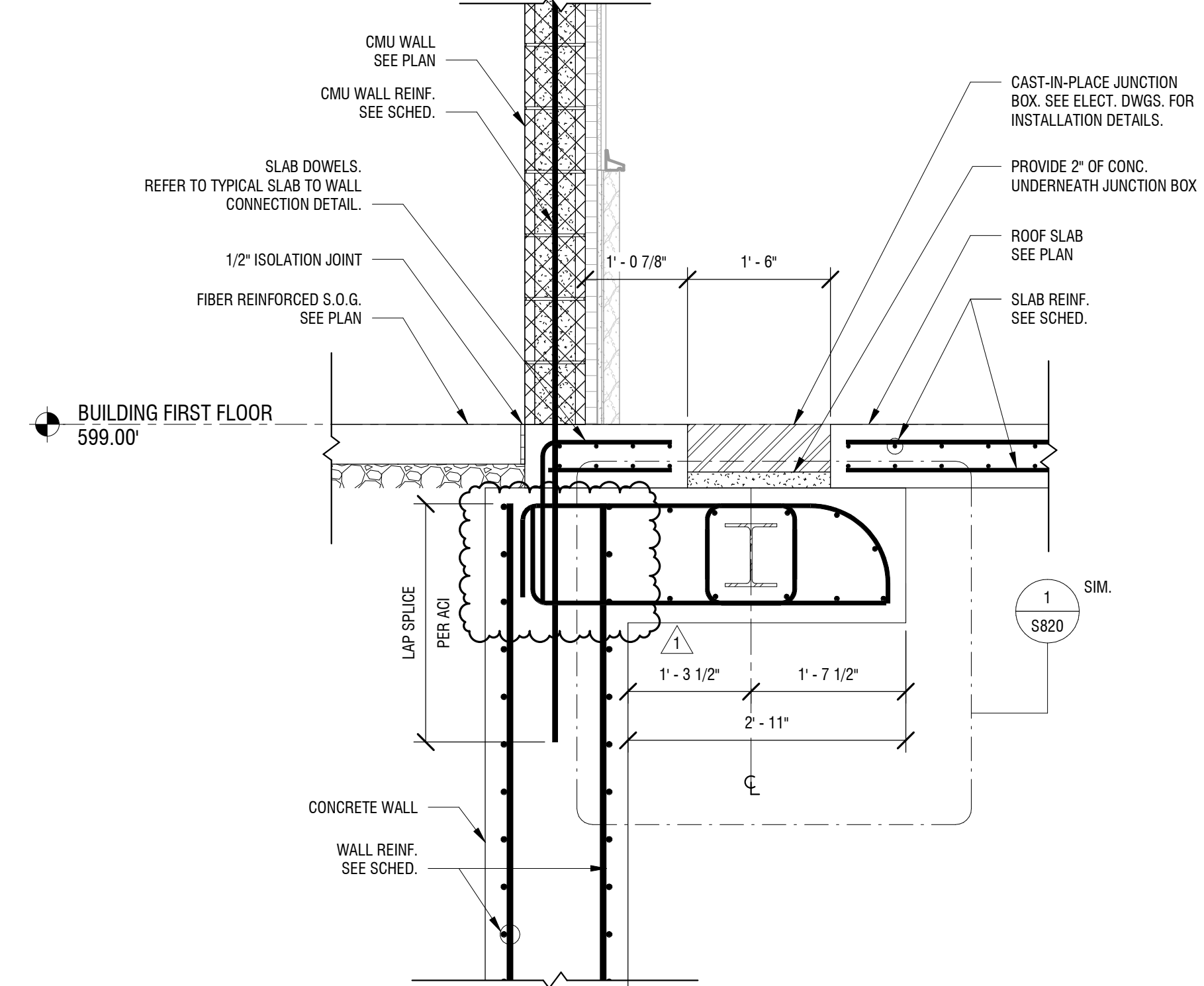
**FRAMING SECTIONS AND
DETAILS**

DRAWING NUMBER:

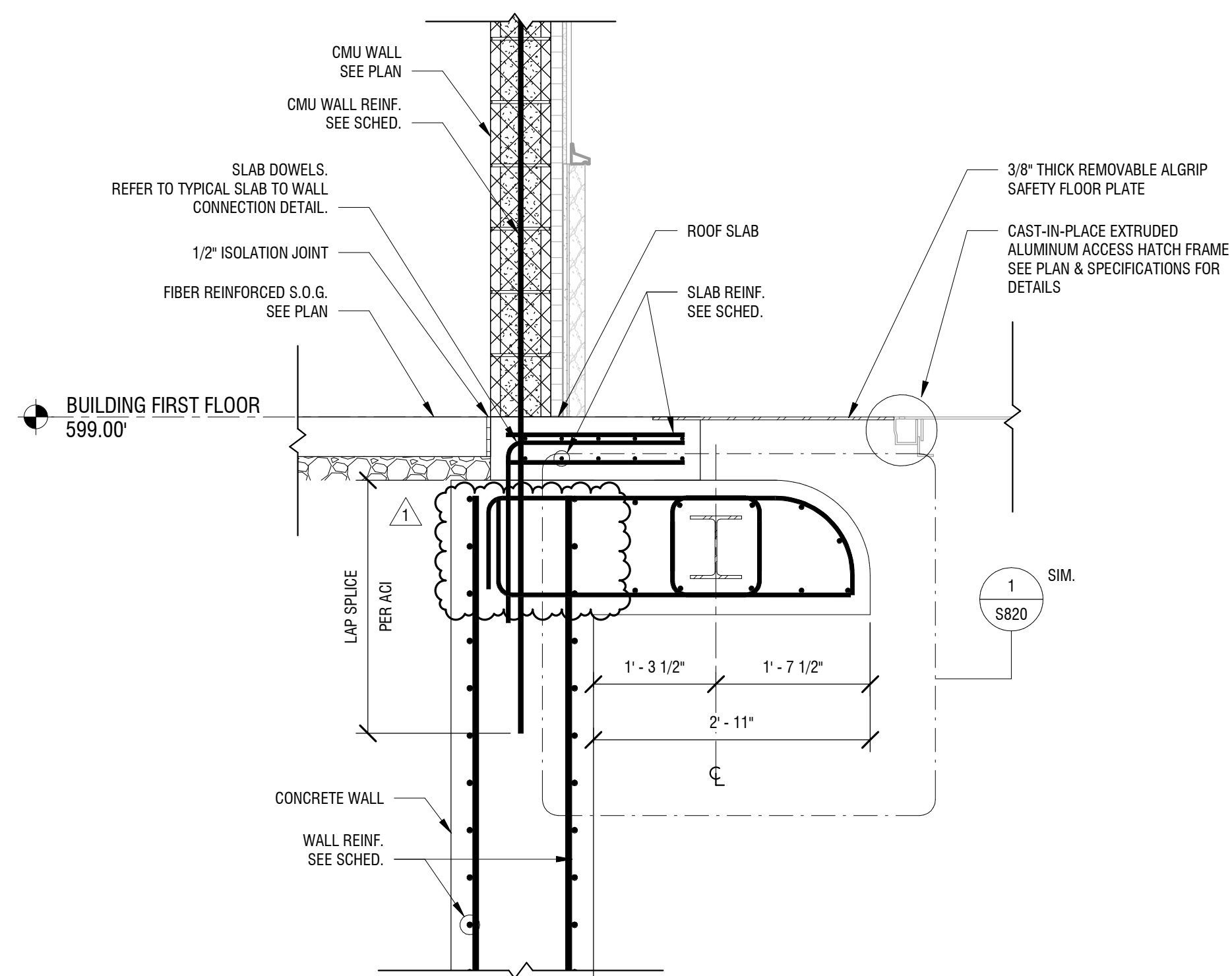
S820



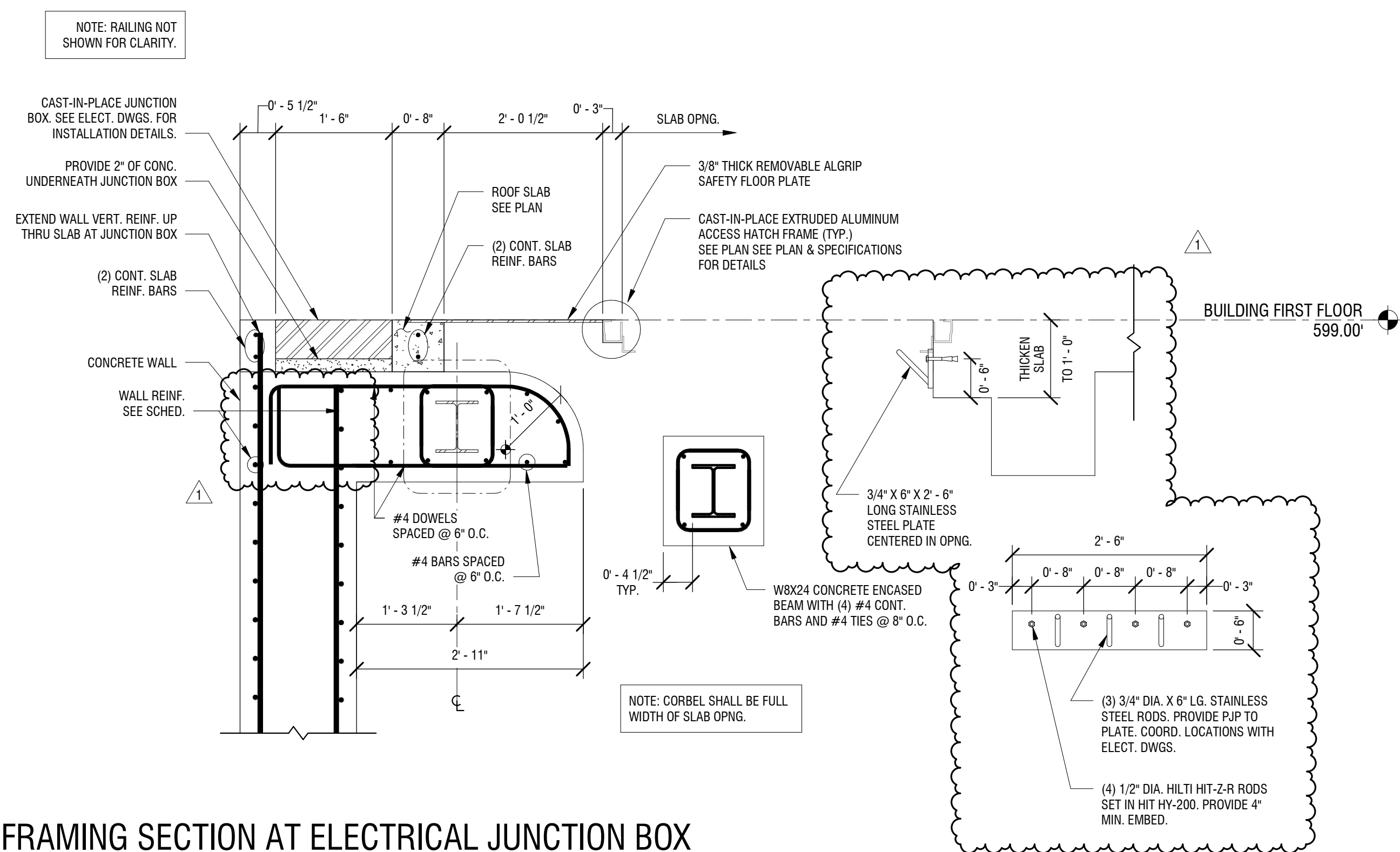
4
S820
FRAMING SECTION AT STAIR
3/4" = 1'-0"



3
S820
FRAMING SECTION AT ELECTRICAL JUNCTION BOX
3/4" = 1'-0"



2
S820
FRAMING SECTION AT ROOF HATCH AND ELECTRICAL BUILDING
3/4" = 1'-0"



1
S820
FRAMING SECTION AT ELECTRICAL JUNCTION BOX
3/4" = 1'-0"



YORK COUNTY
6 CONGRESS STREET
YORK, SC 29745

Crowders Creek Pump Station Replacement
1159 FIELD DAY LANE
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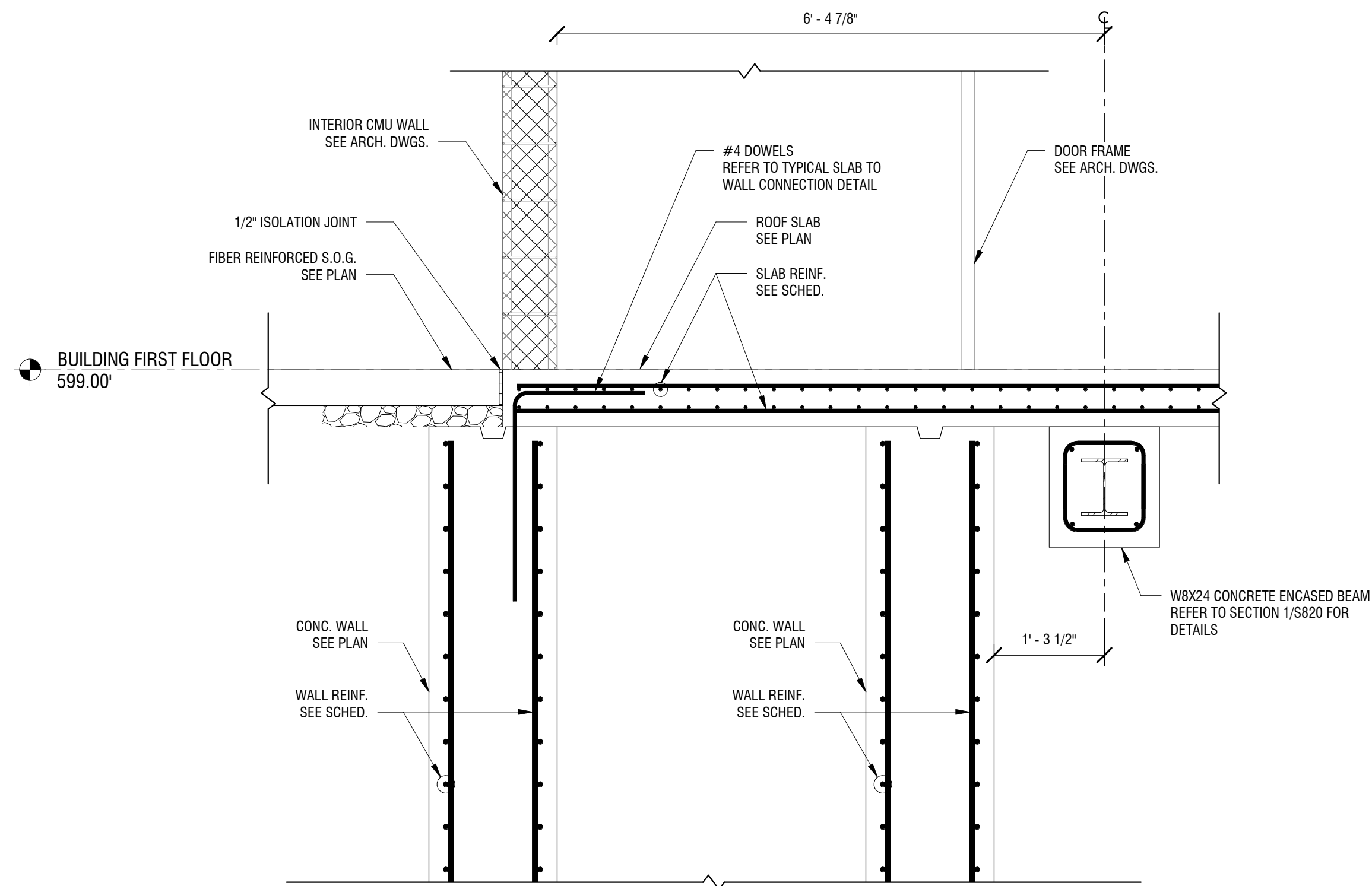
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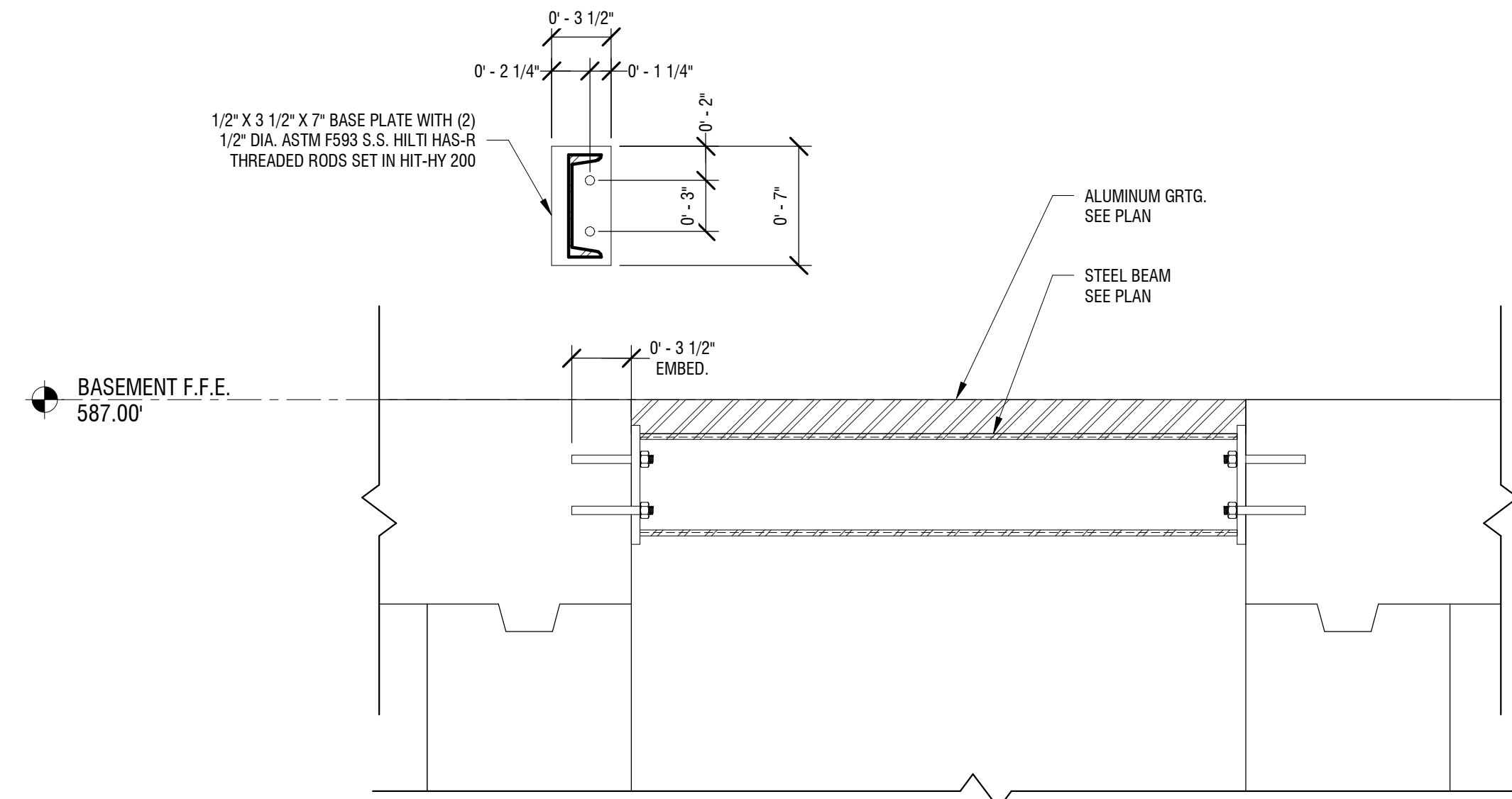
FRAMING SECTIONS AND DETAILS

DRAWING NUMBER:

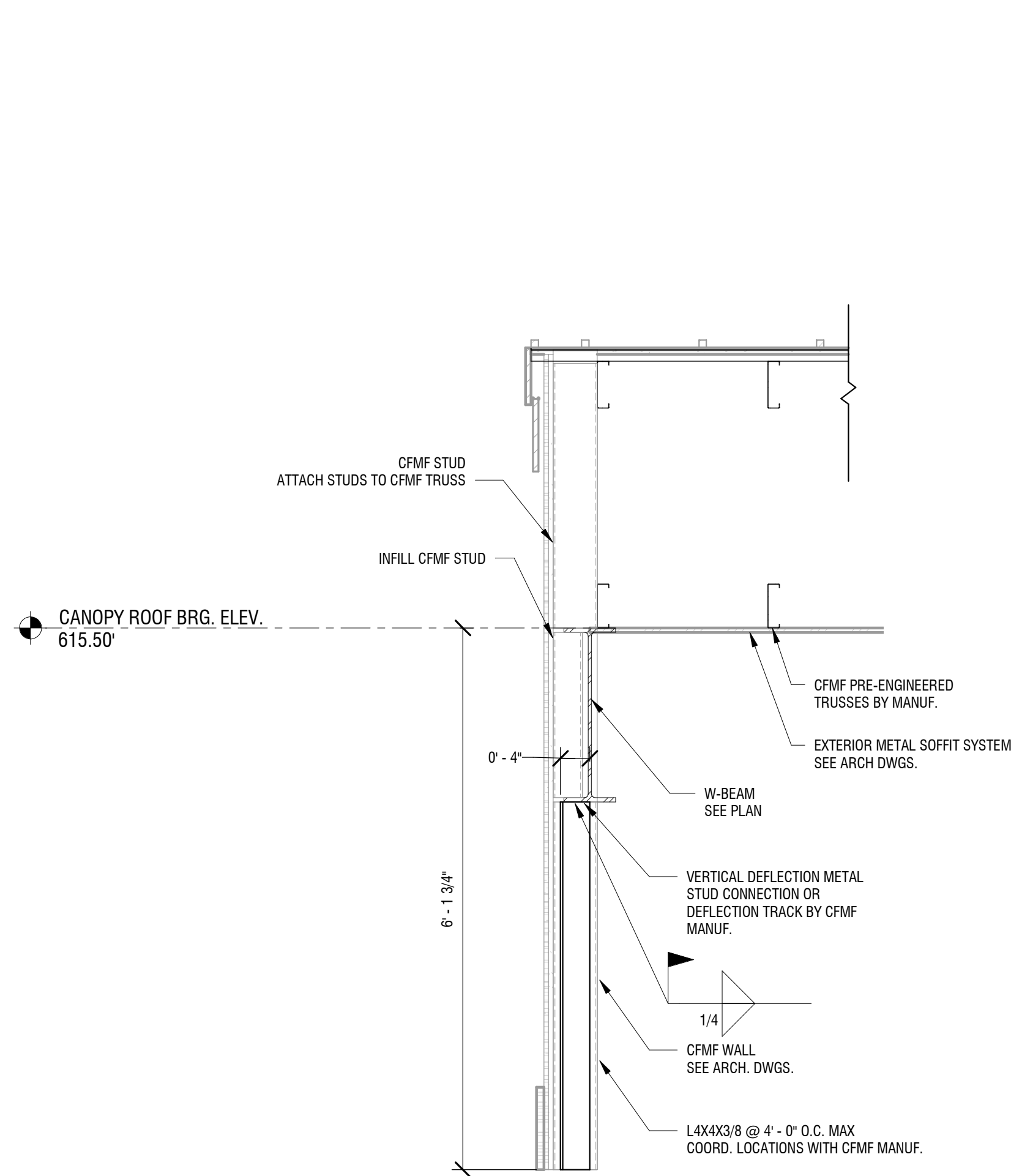
S821



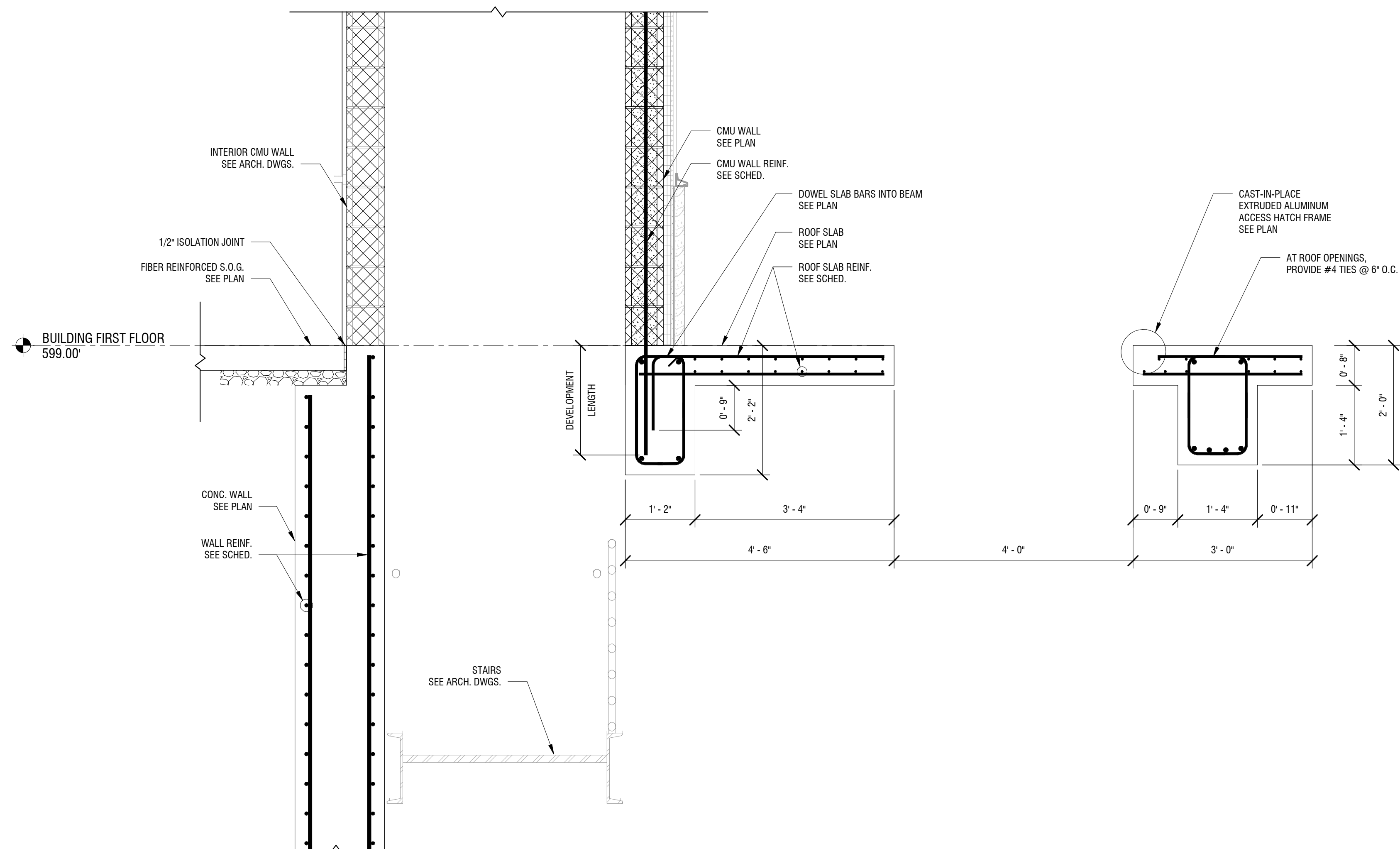
4
S821
3/4" = 1'-0"
FRAMING SECTION AT STAIRWAY ENTRY



3
S821
1 1/2" = 1'-0"
STEEL BEAM TO WALL CONNECTION DETAIL



2
S821
3/4" = 1'-0"
CANOPY GABLE END SECTION



1
S821
3/4" = 1'-0"
FRAMING SECTION AT STAIR