

ARCHITECHNICS, INC.  
510 MAINE STREET  
QUINCY, ILLINOIS 62301

PROJECT NO. : 6463

**ADDENDUM NO.:** 2  
ISSUED: 4/22/2024

Project: Mississippi River Recreation Center  
106 Lewis Street  
Canton, Missouri 63435

This addendum becomes a part of the bidding and contract documents and modifies the drawings and specifications dated April 2, 2024. Acknowledge receipt of this addendum by noting such on the Contractor's Proposal (Bid) Form.

FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION

ITEM	DESCRIPTION
<b><u>Substitutions</u></b>	
1.0 Wood Athletic Flooring	Add Robbins Bio-Cushion Classic with Zero/G Shock Pad
<b><u>Specifications</u></b>	
1.0 00 4323 Alternates Form	Add Addition of Alternates A-2 and A-3
2.0 01 2300 Alternates	Add Alternate A-2: An additive amount to provide and install Wood Athletic Flooring (WAF-1) Robbins Bio-Cushion Classic with Zero/G Shock Pad or approved equal where specified.
3.0 01 2300 Alternates	Add Alternate A-3: A deductive amount should the 24" of low volume change fill material not be required based on the results of the field tests, performed by the contractor's geotechnical testing firm.
4.0 23 7416, 23 7416.10 RTUs	Revise Single wall construction is allowed. RTU-1, 4 can have the option of 3 compressors providing 5 stages of cooling in lieu of 3 variable speed compressors.
5.0 33 4211 Storm Water Piping	Revise SDR26 piping is acceptable.
<b><u>Drawings</u></b>	
1.0 A102 Roof Plan	Revise Vestibule/Reception Roof equal to CECO Superlok (12 inch) panel
2.0 I000 Interior Finish Plan and Specifications	Revise WAF-1 Equal to Robbins Bio-Cushion Classic with Zero/G Shock Pad (Omit reference to Connor Sports "VIP" performance hardwood system)
3.0 S100 Main Level Foundation Plan	Replace Replace with attached sheet.

4.0	S101 Second Level Framing Plan	Replace	Replace with attached sheet.
5.0	S103 Main Level Masonry Lintel Plan	Replace	Replace with attached sheet.
6.0	S401 Masonry Detail	Replace	Replace with attached sheet.
7.0	S502 Steel Details	Replace	Replace with attached sheet.
8.0	E300	Revise	Add an 800A main breaker to the Main Distribution Panelboard.

Attachments: Plan-Spec List, Bid RFI Log; spec. sections 00 4323, 01 2300, 13 3419, Sheets A102, I000, S100, S101, S103, S401, S502

# RECORD OF PLANS AND SPECIFICATIONS

NAME OF PROJECT Mississippi River Rec Center

PROJECT NO. 6463 DATE BIDS DUE Thursday, April 25, 2024 DEPOSIT \$50.00

TIME AND PLACE OF LETTING 2:00 PM Architechnics, Inc  
510 Maine Street - Floor 10, Quincy, IL

\*\*\* Indicates Potential Bidding Contractor

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
Architect	#1				
Owner	#2				
*** Bleigh Construction PO Box 957 Hannibal, MO 63401 573-221-2247 Fax 573-221-4331 lvannatta@bleigh.com	D	4/5/2024			
Keck Heating & A/C 431 State Street Quincy, IL 62301 217-223-5325 Fax 217-223-8325 keckhvac@keckheatingandair.com	D	4/5/2024			
Rees Construction 330 S 5th Quincy, IL 62301 217-222-0748 Fax 217-222-2613 info@reesconstructionco.com	D	4/5/2024			
Precision Mechanical Group Inc 922 Main St Keokuk, IA 52632 217-357-1843 mark@precisionmechanicalgroupinc	D	4/5/2024			
Custom Glass & Glazing 420 S 7th St Quincy, IL 62301 217-223-4527 Fax: 217-221-0694 customgg@sbcglobal.net	D	4/5/2024			
M.E. Mechanical 2501 Ellington Rd Quincy, IL 62305 217-242-0395 eric@memechanicalllc.com	D	4/5/2024			
*** Heimer Construction Co. 6811 Co Rd 344 Taylor, MO 63471 573-769-5515 Fax: 573-769-5516 darinh@heimerconstruction.com	D	4/5/2024			
*** Schwada Builders, Inc. PO Box 487 Shelbina, MO 63468 573-588-4079 Fax: 573-588-7605 bschwada@yahoo.com	D	4/5/2024			

# RECORD OF PLANS AND SPECIFICATIONS

NAME OF PROJECT

Mississippi River Rec Center

PROJECT NO. 6463

DEPOSIT: \$50.00

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
JH Concrete PO BOX 1088 Quincy, IL 62306 217-224-9043 Fax: 217-224-9121 justin@jhconcrete.com	D	4/5/2024			
*** Maas Construction Co. 3615 St. Anthony's Rd. Quincy, IL 62305 217-228-1105 Fax: 217 228-1151 maas@maasconstruction.net	D	4/5/2024			
*** S.M. Wilson & Co. 2185 Hampton Ave. St. Louis, MO 63139 314 645-9595 Fax: 314 645-1700 jake.fenster@smwilson.com	D	4/5/2024			
*** Trotter General Contracting, Inc 900 Doran Drive Macomb, IL 61455 309-836-5040 Fax: 309-836-3756 tgci820@yahoo.com	D	4/8/2024			
Million Construction, Ltd 3626 South 46th Street Quincy, IL 62305 217-222-5202 Cell: 217242-5204 mmillionltd@comcast.net	D	4/8/2024			
Brinkman Plumbing Co. 2510 Ellington Rd. Quincy, IL 62301 217 223-1962 Fax: 217 223-1972 janderson@brinkmanplumbing.com	D	4/9/2024			
D&L Excavating, Inc. 1958 Hwy 104 Liberty, IL 62347 217 645-3701 Fax: 217 645-3692 dlexcavatinginc@yahoo.com	D	4/9/2024			
Jansen Electric 4421 N. 60th Street Quincy, IL 62305 217-223-4016 Fax 217-223-8046 jansen@adams.net	D	4/10/2024			
Emrick Brothers Construction 2208 S 12th St Quincy, IL 62305 217-617-7799  hunteremrick7@gmail.com	D	4/17/2024			
12-D Construction 100 Greenway Dr Shelbina, MO 63468 660-415-7362  durbindean@yahoo.com	D	4/18/2024			

# RECORD OF PLANS AND SPECIFICATIONS

NAME OF PROJECT

Mississippi River Rec Center

PROJECT NO. **6463**

DEPOSIT: **\$50.00**

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
*** J Reiff Construction 347 S Ridge St Memphis, MO 63555 660-342-0552  jonathan@jreiffconstruction.com	D	4/18/2024			
*** PSR Construction, Inc. 800 N. Centennial Ave. Kirksville, MO 63501 660 627-3600 Fax: 660 627-3601 terry@psrconstructioninc.com	D	4/18/2024			
Breckenkamp Painting 3820 Stonegate Rd. Quincy, IL 62305 217-242-8610 Fax: 217-223-6293 michaelbreckenkamp@yahoo.com	D	4/18/2024			

Mississippi River Recreation Center								4/2/2024
Item #	Date	Contractor/Vendor	Question	Response	Add. #	By	Date	
1	4/9/2024	SM Wilson	Please indicate the brand/type, specifications of the wood flooring to be provided by owner and installed by contractor	Basis of Design for the Wood Athletic Floor (WAF-1) to be Connor Sports "VIP" Performance Hardwood System. <b>Response revised in Addendum #2, see Alternate A-2</b>	2	JS	4/18/24 & 4/22/24	
2	4/11/2024	SM Wilson	Please indicate if additional information and/or specifications are available regarding the storm sewer system	Subsurface storage system is described on drawing C101 and detailed on C501, we would recommend contacting the vendor directly for additional information.	n/a	JS	4/15/2024	
3	4/11/2024	SM Wilson	Please indicate if a control point or boundary survey has been completed for the site	Yes, a boundary survey and utility survey has been obtained	n/a	JS	4/15/2024	
4	4/12/2024	SM Wilson	Has a geotechnical report been done on this site? If so, please provide direction on how we are to handle any unforeseen underground conditions.	No there has not been a geotechnical report completed for the site. Review sheets S001 and S100 for required removal of 24" of existing subgrade (below slab elevation and replacement with 24" of low volume change fill material.	1	BS	4/18/2024	
5	4/12/2024	Brinkman	On the architectural drawings, there was a washer and dryer but on the plumbing drawings it doesn't show a rough-in for one.	will add in addendum 1	1	IM	4/18/2024	
6	4/12/2024	Brinkman	Outside water service shows a fire protection and a separate domestic service coming into the building. Spoke with City of Canton water supervisor (Cindy) and explained because of legionary, it is common to bring one service into the building and set meter inside and is code in IL but not yet code required in MO. Cindy agreed and had no problems with it.	will add a note on C101 in addendum 1	1	IM	4/18/2024	
7	4/12/2024	Bleigh	Room Signs: What is the size of the sign and what material for the sign. The specification says plastic. Supplier inquired if it should be rigid vinyl, acrylic, or photopolymer. Is there a sign schedule.	The specification is accurate with identifying plastic but it is a general material description. Rigid vinyl, acrylic and photopolymer are types of plastics and are acceptable to use. The size of the signs and locations are identified on drawing sheet I000	n/a	JS	4/12/2024	
8	4/12/2024	Bleigh	Dimensional Signs: What type of letter is requested? Cast aluminum or aluminum Sheet Flat. If aluminum sheet flat, what thickness do you want for the letter.	Spec section 10 1419 identifies the metal letters as aluminum flat sheet and font/finish as selected by architect from manufacturer's full range. Additional information: thickness 1/2", mounting with 1" stand-offs to accommodate ribs in metal wall panel	1	JS	4/18/2024	
9	4/12/2024	Horton	08 7100 Door Hardware: We are unable to source the LCN, Norton, Precision or Besam brand automatic door operator. Substitution request for a Horton Series 4100LE.	Substitution request is not approved as the specified LCN is a hydraulic door closer	n/a	JS	4/17/2024	
10	4/16/2024	Bleigh	Detail 1/S401 provides a lintel schedule but we can't find a reference on the architectural or structural sheets were they occur	Sheets S103 and S104 are provided in Addendum 1	1	BS	4/18/2024	
11	4/16/2024	Bleigh	Detail 3/A500 (Openings 121 E and 124B) show a top of window elevation of 112' but Detail 8/S401 gives the top of masonry wall at 113'-2", is there a detail of what is intended above the openings.	Structural Framing Plan S101 shows the required framing above the aluminum framing.	1	BS	4/18/2024	
12	4/16/2024	St. Louis Lighting Group	E000 Lighting Fixture Schedule: We are unable to source the manufacturers specified. Substitution request for Lithonia, Mark Lighting, Prudential manufacturers	Substitution request approved	1	JS	4/18/2024	
13	4/16/2024	Shortridge	Can CECO's 24" wide Double-Lok panel be used in lieu of 16" Super-Lok?	Metal roof panel to be equal to CECO Double-Lok (24" wide) Galvalume Finish	1	JS	4/18/2024	
14	4/16/2024	Shortridge	We didn't see any deflections listed in bid documents. Please advise.	See revised Metal Building specification in Addendum 1	1	BS	4/18/2024	

15	4/16/2024	Shortridge	Should the metal panels be Signature 200 or Signature 300 paint finish?	Wall panel finish to be equal to CECO Signature 200 (AMENDED IN ADDENDUM 2)	1	JS	4/18/2024
16	4/17/2024	Rees	Is the storm sewer pipe PVC or dual wall HDPE? Can you verify sizing for each storm run? Should there be cleanouts or structures in lieu of 90 degree bends? Do you have a depth for the sanitary sewer? It shows the sanitary going in right next to an existing power pole, can this be moved?	Specs reference SDR 11 or solid wall HDPE. They are labeled 8, 12, 15" along the pipe runs. Piping from downspout boots can be 6" if connected to a single downspout. We can add cleanouts in an addendum. We can add the elevations of the NE manhole in the addendum indicating it is 8.5' deep. We can offset the pipe west in an addendum.	1	IM	4/18/2024
17	4/18/2024	Bleigh	Reference detail: 11/S502. 8/S502. 12/S502 The details indicate a carriage angle support for the follow core slab, but no size is shown, please provide.	Carriage angle to be LSX5X3/8	2	BM	4/22/2024
18	4/18/2024	Bleigh	W12 (PEMB) - What is this indicating on S102 along the perimeter of the building? The PEMB will be designed with main frame members, but is there a beam other than their main frame that needs to accounted for where these are indicated?	W12 PEMB is indicating the endwall rake framing member which is by the PEMB supplier.	n/a	BM	4/22/2024
19	4/18/2024	Bleigh	There is X bracing shown on the side walls at both ends with none in between. There will likely be X bracing needed and will possibly interfere with the window locations	Final coordination of windows will be completed when PEMB design complete with bracing locations is finalized.	n/a	BM	4/22/2024
20	4/18/2024	Bleigh	The Circles with the numbers from the General Notes on S102, 9 is labeled on column lines H, J, K< and L, but the loading is not given for 9 on the loading chart detail 13/S501, please provide.	This item was addressed in Addendum #1	1	BM	4/18/2024

**SECTION 00 4323  
ALTERNATES FORM**

**PARTICULARS**

**1.01 THE FOLLOWING IS THE LIST OF ALTERNATES REFERENCED IN THE BID SUBMITTED BY:**

**1.02 (BIDDER) \_\_\_\_\_**

**1.03 TO (OWNER ): RIVER GIRLS, LLC**

**1.04 DATED \_\_\_\_\_ AND WHICH IS AN INTEGRAL PART OF THE BID FORM.**

**ALTERNATES LIST**

**2.01 THE FOLLOWING AMOUNTS SHALL BE ADDED TO OR DEDUCTED FROM THE BID AMOUNT. REFER TO SECTION 01 2300 - ALTERNATES.**

**ALTERNATE # A1: ADD / (DEDUCT) \$ \_\_\_\_\_**

**2.02 DESCRIPTION: PROVIDE A PRE-ENGINEERED METAL BUILDING WITH AN ADDITIONAL COLUMN LINE HALFWAY BETWEEN COLUMN LINES 01 AND 09 APPROXIMATELY EQUAL TO 77'-0". IF THIS ALTERNATE BID IS ACCEPTED THE LOCATIONS/ORIENTATION OF DOOR THAT OCCUR ALONG THIS NEW PROPOSED COLUMN LINE WILL BE ADJUSTED OR MODIFIED. ACTUAL MODIFICATIONS WILL BE DETERMINED IF THE ALTERNATE IS ACCEPTED.**

**2.03 THE FOLLOWING AMOUNTS SHALL BE ADDED TO OR DEDUCTED FROM THE BID AMOUNT. REFER TO SECTION 01 2300 – ALTERNATES.**

**ALTERNATE # A2: (ADD) / DEDUCT \$ \_\_\_\_\_**

**2.04 DESCRIPTION: AN ADDITIVE AMOUNT TO PROVIDE AND INSTALL WOOD ATHLETIC FLOORING (WAF-1) ROBBINS BIO-CUSHION CLASSIC WITH ZERO/G SHOCK PAD.**

**2.05 THE FOLLOWING AMOUNTS SHALL BE ADDED OR DEDUCTED FROM THE BID AMOUNT. REFER TO SECTION 01 2300 – ALTERNATES.**

**ALTERNATE # A3: ADD / (DEDUCT) \$ \_\_\_\_\_**

**2.06 DESCRIPTION: A DEDUCTIVE AMOUNT SHOULD THE 24" OF LOW VOLUME CHANGE FILL MATERIAL NOT BE REQUIRED BASED ON THE RESULTS OF THE FIELD TEST**



**PERFORMED BY THE CONTRACTOR'S GEOTECHNICAL TESTING FIRM.**

**END OF SECTION**

**SECTION 01 2300  
ALTERNATES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Description of Alternates.
- B. Documentation of changes to Contract Price and Contract Time.

**1.02 RELATED REQUIREMENTS**

- A. Document 00 2113 - Instructions to Bidders: Instructions for preparation of pricing for Alternates.
- B. Document 00 4323 - Alternates Form: List of Alternates as supplement to Bid Form.
- C. Document 00 5200 - Agreement Form: Incorporating monetary value of accepted Alternates.

**1.03 ACCEPTANCE OF ALTERNATES**

- A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.
- B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

**1.04 SCHEDULE OF ALTERNATES**

- A. Alternate No. A - 1:
  - 1. Base Bid Item: Provide a Pre-Engineered Metal Building with a clear span Column Lines 01 and 09 approximately equal to 154'-0".
  - 2. Alternate Item: Provide a Pre-Engineered Metal Building with an additional column line halfway between Column Lines 01 and 09 approximately equal to 77'-0". If this alternate bid is accepted the locations/orientation of doors that occur along this new proposed column line will be adjusted or modified. Actual modifications will be determined if the alternate is accepted.
- B. Alternate No. A - 2:
  - 1. Base Bid Item: Wood Athletic Flooring (WAF-1) to be provided by owner, installed by contractor.
  - 2. Alternate Item: An additive amount to provide and install Wood Athletic Flooring (WAF-1) Robbins Bio-Cushion Classic with Zero/G Shock Pad or approved equal where specified.
- C. Alternate No. A - 3:
  - 1. Base Bid Item: Scope includes to remove and replace grade below area of interior concrete slab on grade with 24" of low volume change fill material. See Sheet S001 for additional information. Geotechnical testing agency shall confirm the acceptance or non-conformance of existing subgrade material prior to removal and replacement.
  - 2. Alternate Item: A deductive amount should the 24" of low volume change fill material not be required based on the results of the field tests performed by the contractor's

geotechnical testing firm.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

**END OF SECTION**

**SECTION 13 3419  
METAL BUILDING SYSTEMS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Manufacturer-engineered, shop-fabricated structural steel building frame.
- B. Metal wall and roof panels including soffits and gutters and downspouts.

**1.02 RELATED REQUIREMENTS**

- A. Section 07 9200 - Joint Sealants: Sealing joints between accessory components and wall system.
- B. Section 08 1113 - Hollow Metal Doors and Frames.
- C. Section 08 3323 - Overhead Coiling Doors: Exterior overhead doors.
- D. Section 08 4313 - Aluminum-Framed Storefronts: Aluminum window framing.
- E. Section 08 8000 - Glazing.

**1.03 REFERENCE STANDARDS**

- A. AISC 360 - Specification for Structural Steel Buildings; 2022.
- B. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.
- C. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.
- D. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2023.
- E. ASTM A501/A501M - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing; 2021.
- F. ASTM A529/A529M - Standard Specification for High-Strength Carbon-Manganese Steel of Structural Quality; 2019.
- G. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
- H. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink); 2020.
- I. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.
- J. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2023.
- K. ASTM F1554 - Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength; 2020.
- L. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 MPa Minimum Tensile

Strength; 2023.

- M. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; 2020.
- N. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2023).
- O. IAS AC472 - Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems; 2018, with Editorial Revision (2019).
- P. MBMA (MBSM) - Metal Building Systems Manual; 2019.
- Q. SSPC-Paint 20 - Zinc-Rich Coating (Type I - Inorganic, and Type II - Organic); 2019.

#### 1.04 DEFINITIONS

- A. Metal Building System: A building system that will employ:-
  - 1. Either a continuous or simple-span 'Z' or 'C'-shaped cold-formed purlins or open-web steel joists for support of the roof cladding.-Either a continuous or simple-span 'Z' or 'C'-shaped cold-formed girts or open-web steel joists for support of the steel wall cladding.- Three-plate, built-up rigid space frames and/or cold-formed 'C' or hot-rolled I-shaped post-and-beam framing to support the roof and wall secondary members.- All systems (cladding, roof and wall secondary, lateral primary framing, and longitudinal bracing) work together to provide resistance to vertical and lateral loading demands.
  - 2. Either a continuous or simple-span 'Z' or 'C'-shaped cold-formed girts or open-web steel joists for support of the steel wall cladding.
  - 3. All systems (cladding, roof and wall secondary, lateral primary framing, and longitudinal bracing) work together to provide resistance to vertical and lateral loading demands.
- B. Gable Symmetrical: A continuous frame building with the ridge in the center of the building, consisting of tapered or straight columns and tapered or straight rafters. The sidewall girts may be continuous (by-passing the columns) or simple span (inset in the column line).
- C. Roof Slope: Pitch expressed as inches of rise for each 12 inches of horizontal run.
- D. Building Eave Height: Nominal dimension measured from finished floor to top flange of eave strut.
- E. Building Width: Measured from outside to outside of side wall secondary structural member.
- F. Building Length: Measured from outside to outside of end wall secondary structural member.
- G. Collateral Loads: Weight of any non-moving equipment or material, such as ceilings, electrical or mechanical equipment, sprinkler systems, plumbing, or ceilings.
- H. Dead Load: Actual weight of building system as supplied by manufacturer supported by given member.
- I. Floor Live Loads: Loads induced on floor system by building occupants and possessions including but not limited to furniture and equipment.
- J. Roof Live Loads: Loads produced by maintenance activities, rain, erection activities, and or movable or moving loads but not including wind, snow, seismic, crane, or dead loads.
- K. Roof Snow Loads: Gravity load induced by weight of snow or ice on roof, assumed to act on horizontal projection of roof.
- L. Seismic Loads: Loads acting in any direction on structural system due to action of an earthquake.

- M. Wind Loads: Loads on structure induced by forces of wind blowing from any horizontal direction.

### 1.05 DESIGN REQUIREMENTS

- A. Governing Design Code: Structural design for the metal building system shall be performed by the manufacturer of the metal building system in accordance with the building code provided in the contract documents.
- B. General
1. The building manufacturer will use standards, specifications, recommendations, findings and/or interpretations of professionally-recognized groups such as AISC, AISI, AWS, ASTM, CSA, CWB, MBMA, Federal Specifications, and unpublished research by MBMA as the basis for establishing design, drafting, fabrication, and quality criteria, practices, and tolerances. The Manufacturer's design, drafting, fabrication and quality criteria, practices, and tolerances shall govern, unless specifically countermanded by the contract documents.
- C. Design Basis
1. Design structural mill sections and built-up plate sections in accordance with code-appropriate edition of AISC's "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings", ANSI/AISC 360 ASD method.
  2. Cold-Formed steel structural members and panels will generally be designed in accordance with "Specifications for the Design of Cold-Formed Steel Structural Members", ANSI/AISI S-100.
  3. Structural Welding Design per AWS D1.1, "Structural Welding Code – Steel", Latest Edition.
  4. Structural Bolt Design of all bolted joints in accordance with RCSC Specification.
  5. Design structures in accordance with MBMA Practices and Manual including fabrication and erection tolerances.
- D. Design Loads:
1. In accordance with Contract Documents and manufacturer's standard design practices.
  2. Design loads include dead loads, roof live loads, wind loads, seismic loads, collateral loads, auxiliary loads, floor live loads and applied or specified loads.
- E. General Serviceability Limits:
1. Deflection Limits shall be in accordance with the applicable provisions of the Metal Building Systems Manual (MBMA), latest edition.
  2. Maximum Lateral Building Deflection: The maximum horizontal building deflection measured at the building eave line shall be  $H/150$  or 2" which ever is less.

### 1.06 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on profiles, component dimensions, fasteners.
- C. Shop Drawings: Indicate assembly dimensions, locations of structural members, connections, attachments, openings, and loads; wall and roof system dimensions, panel layout, general

construction details, anchors and methods of anchorage, and installation; framing anchor bolt settings, sizes, locations from datum, and foundation loads; indicate welded connections with AWS A2.4 welding symbols; indicate net weld lengths; provide professional seal and signature.

- D. Samples: Submit two samples of precoated metal panels for each color selected 4" x 4" in size illustrating color and texture of finish.
- E. Manufacturer's Instructions: Indicate preparation requirements, anchor bolt placement.
- F. Erection Drawings: Indicate members by label, assembly sequence, and temporary erection bracing.
- G. Designer's Qualification Statement.
- H. Manufacturer's Qualification Statement: Provide documentation showing metal building manufacturer is accredited under IAS AC472.
  - 1. Include statement that manufacturer designs and fabricates metal building system as integrated components and assemblies, including but not limited to primary structural members, secondary members, joints, roof, and wall cladding components specifically designed to support and transfer loads and properly assembled components form a complete or partial building shell.
- I. Erector's Qualification Statement.

#### **1.07 QUALITY ASSURANCE**

- A. Designer Qualifications: Design structural components, develop shop drawings, and perform shop and site work under direct supervision of a Professional Structural Engineer experienced in design of this type of work.
  - 1. Design Engineer Qualifications: Licensed in the State in which the Project is located.
  - 2. Comply with applicable code for submission of design calculations and reviewed shop and erection drawings as required for acquiring permits.
  - 3. Cooperate with regulatory agency or authorities having jurisdiction (AHJ), and provide data as requested.
- B. Perform work in accordance with AISC 360 and MBMA (MBSM).
  - 1. Maintain one copy on site.
- C. Manufacturer Qualifications: Company specializing in the manufacture of products similar to those required for this project.
  - 1. Not less than five years of documented experience.
  - 2. Accredited by IAS in accordance with IAS AC472.
- D. Erector Qualifications: Company specializing in performing the work of this section with minimum five years experience.

#### **1.08 WARRANTY**

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Correct defective Work within a five year period after Date of Substantial Completion.
- C. Provide five year manufacturer warranty including:

1. Include coverage for exterior pre-finished surfaces to cover pre-finished color coat against chipping, cracking or crazing, blistering, peeling, chalking, or fading. Include coverage for weather tightness of building enclosure elements after installation.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Metal Buildings Systems:
  1. Butler Manufacturing Company: [www.butlermfg.com/#sle](http://www.butlermfg.com/#sle).
  2. Ceco Building Systems: [www.cecobuildings.com/#sle](http://www.cecobuildings.com/#sle).
  3. Metallic Building Systems: [www.metallic.com/#sle](http://www.metallic.com/#sle).
  4. Nucor Building Systems: [www.nucorbuildingsystems.com/#sle](http://www.nucorbuildingsystems.com/#sle).
  5. VP Buildings: [www.vp.com/#sle](http://www.vp.com/#sle).
  6. Substitutions: See Section 01 6000 - Product Requirements.

### **2.02 ASSEMBLIES**

- A. Single span rigid frame.
- B. Primary Framing: Rigid frame of rafter beams and columns, braced end frames and end wall columns, and wind bracing.
- C. Secondary Framing: Purlins, Girts, Eave struts, Flange bracing, Sill supports, and Clips, and other items detailed.
- D. Wall System: Preformed metal panels of vertical profile, with sub-girt framing/anchorage assembly, insulation, and liner sheets, and accessory components.
- E. Roof System: Preformed metal panels oriented parallel to slope, with sub-girt framing/anchorage assembly, insulation, and liner panels, and accessory components.
- F. Roof Slope: 1" to 12".

### **2.03 PERFORMANCE REQUIREMENTS**

- A. Installed Thermal Resistance of Wall System: Refer to code review sheet G000 for energy code desing criteria.
- B. Installed Thermal Resistance of Roof System: Refer to code review sheet G000 for energy code desing criteria.
- C. Design structural members to withstand dead loads, live loads, applicable snow load, and design loads due to pressure and suction of wind calculated in accordance with applicable code and as indicated on contract documents.
- D. Exterior wall and roof system shall withstand imposed loads with maximum allowable deflection of 1/180 of span.
- E. Provide drainage to exterior for water entering or condensation occurring within wall or roof system.



- F. Permit movement of components without buckling, failure of joint seals, undue stress on fasteners or other detrimental effects, when subject to temperature range of 70 degrees F.
- G. Size and fabricate wall and roof systems free of distortion or defects detrimental to appearance or performance.

#### **2.04 MATERIALS - FRAMING**

- A. Structural Steel Members: ASTM A36/A36M.
- B. Structural Tubing: ASTM A500/A500M Grade B cold-formed.
- C. Plate or Bar Stock: ASTM A529/A529M, Grade 50.
- D. Anchor Bolts: ASTM F1554, Grade 36, Class 1A, with no preference for protective coating.
- E. Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1; galvanized to ASTM A153/A153M.
- F. Welding Materials: Perform in accordance with AWS D1.1/D1.1M.
- G. Primer: SSPC-Paint 20 zinc rich.
- H. Grout: ASTM C1107/C1107M; Non-shrink; premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.
  - 1. Minimum Compressive Strength at 48 Hours: 2,000 pounds per square inch.
  - 2. Minimum Compressive Strength at 28 Days: 7,000 pounds per square inch.

#### **2.05 MATERIALS - WALLS AND ROOF**

- A. Steel Sheet: Refer to drawings for panel product basis of design.
- B. Insulation: Batt glass fiber type, unfaced, ASTM E84 Class A, flame spread index of 25 or less where exposed, friction fit, thickness to achieve energy code compliance.
- C. Metal Building Type, Factory Applied, Vapor-Barrier Insulation Facings: Water vapor permeance no greater than 0.10 perm when tested in accordance with ASTM E96/E96M; flame spread index of 25 or less, and smoke developed index of 40 or less when tested in accordance with ASTM E84.
  - 1. Manufacturers:
    - a. Lamtec Corporation; WMP-VR: [www.lamtec.com/#sle](http://www.lamtec.com/#sle).
    - b. Substitutions: See Section 01 6000 - Product Requirements.
- D. Joint Seal Gaskets: Manufacturer's standard type.
- E. Fasteners: Manufacturer's standard type, galvanized to comply with requirements of ASTM A153/A153M, finish to match adjacent surfaces when exterior exposed.
- F. Sealant: Manufacturer's standard type.
- G. Trim, Closure Pieces, Caps, Flashings, Gutters, Downspouts, Fascias and Infills: Same material, thickness and finish as exterior sheets; brake formed to required profiles.

#### **2.06 COMPONENTS**

- A. Doors and Frames: See Section 08 1113.
- B. Overhead Doors: See Section 08 3323.

- C. Windows: See Section 08 431230.

## 2.07 FABRICATION - FRAMING

- A. Fabricate members in accordance with AISC 360 for plate, bar, tube, or rolled structural shapes.
- B. Anchor Bolts: Formed with bent shank, assembled with template for casting into concrete.
- C. Provide wall opening framing for doors, windows, and other accessory components.

## 2.08 FABRICATION - WALL AND ROOF PANELS

- A. Siding: Main Roof - Basis of design CECO "PBR" Panel, lapped edges fitted with continuous gaskets. Metal thickness to be determined by PEMB based on specified structural design loads. Finish: As selected by architect from the standard Signature 200 Series
- B. Siding: Vestibule/Reception Roof - Basis of design CECO "PBR" Panel, lapped edges fitted with continuous gaskets. Metal thickness: 26 gage. Finish: Signature 300 Series
- C. Roofing: Main Roof - Basis of design CECO Double-Lok Panel (24" width), lapped edges fitted with continuous gaskets. Metal thickness to be determined by PEMB based on specified structural design loads. Finish: Main Roof - Galvalume Plus
- D. Roofing: Vestibule/Reception Roof - Basis of design CECO Superlok Panel (12" width), lapped edges fitted with continuous gaskets. Metal thickness: 26 gage. Finish: Vestibule/Reception - As selected by architect from the standard Signature 300 Series
- E. Liner: Basis of design CECO "PBR" Panel - 26 Gauge, lapped V edges fitted with continuous gaskets. Finish: As selected by architect from the standard Signature 200 Series.
- F. Soffit Panels: Basis of design CECO "PBR" Panel . Metal thickness: 24 gage. Finish: As selected by architect from the standard Signature 300 Series
- G. Girts/Purlins: Rolled formed structural shape to receive siding, roofing and liner sheet.
- H. Internal and External Corners: Same material thickness and finish as adjacent material, profile brake formed to required angles.
- I. Expansion Joints: Same material and finish as adjacent material where exposed, thick, manufacturer's standard brake formed type, of profile to suit system.
- J. Flashings, Closure Pieces, Fascia: Same material and finish as adjacent material, profile to suit system.
- K. Fasteners: To maintain load requirements and weather tight installation, same finish as cladding, non-corrosive type.

## 2.09 FABRICATION - GUTTERS AND DOWNSPOUTS

- A. Fabricate of same material and finish as roofing metal.
- B. Form gutters and downspouts of rectangular profile and size indicated to collect and remove water. Fabricate with connection pieces.

- C. Form sections in maximum possible lengths. Hem exposed edges. Allow for expansion at joints.
- D. Fabricate support straps of same material and finish as roofing metal, color as selected.

## **2.10 FINISHES**

- A. Framing Members: Clean, prepare, and shop prime. Do not prime surfaces to be field welded.
- B. Exterior Surfaces of Wall Components and Accessories: Precoated enamel on steel of polyvinyl fluoride finish, color as selected from manufacturer's standard range.
- C. Interior Surfaces of Wall Components and Accessories: Precoated enamel on steel of siliconized polyester finish, color as selected from manufacturer's standard range.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that foundation, floor slab, mechanical and electrical utilities, and placed anchors are in correct position

### **3.02 ERECTION - FRAMING**

- A. Erect framing in accordance with AISC 360.
- B. Provide for erection and wind loads. Provide temporary bracing to maintain structure plumb and in alignment until completion of erection and installation of permanent bracing. Locate braced bays as indicated.
- C. Set column base plates with non-shrink grout to achieve full plate bearing.
- D. Do not field cut or alter structural members without approval.
- E. After erection, prime welds, abrasions, and surfaces not shop primed.

### **3.03 ERECTION - WALL AND ROOF PANELS**

- A. Install in accordance with manufacturer's instructions.
- B. Exercise care when cutting prefinished material to ensure cuttings do not remain on finish surface.
- C. Fasten cladding system to structural supports, aligned level and plumb.
- D. Locate end laps over supports. End laps minimum 2 inches. Place side laps over bearing.
- E. Provide expansion joints where indicated.
- F. Use concealed fasteners.
- G. Install insulation and vapor retarder utilizing \_\_\_\_\_ for attachment. Place wire mesh under vapor retarder for support between framing members.
- H. Install sealant and gaskets, providing weather tight installation.

### **3.04 ERECTION - GUTTERS AND DOWNSPOUTS**

- A. Rigidly support and secure components. Join lengths with formed seams sealed watertight. Flash and seal gutters to downspouts.
- B. Slope gutters minimum 1/16 inch/ft.
- C. Connect downspouts to storm sewer system.

### **3.05 INSTALLATION - ACCESSORY COMPONENTS IN WALL SYSTEM**

- A. Install door frames, doors, overhead doors, and windows and glass in accordance with manufacturer's instructions.

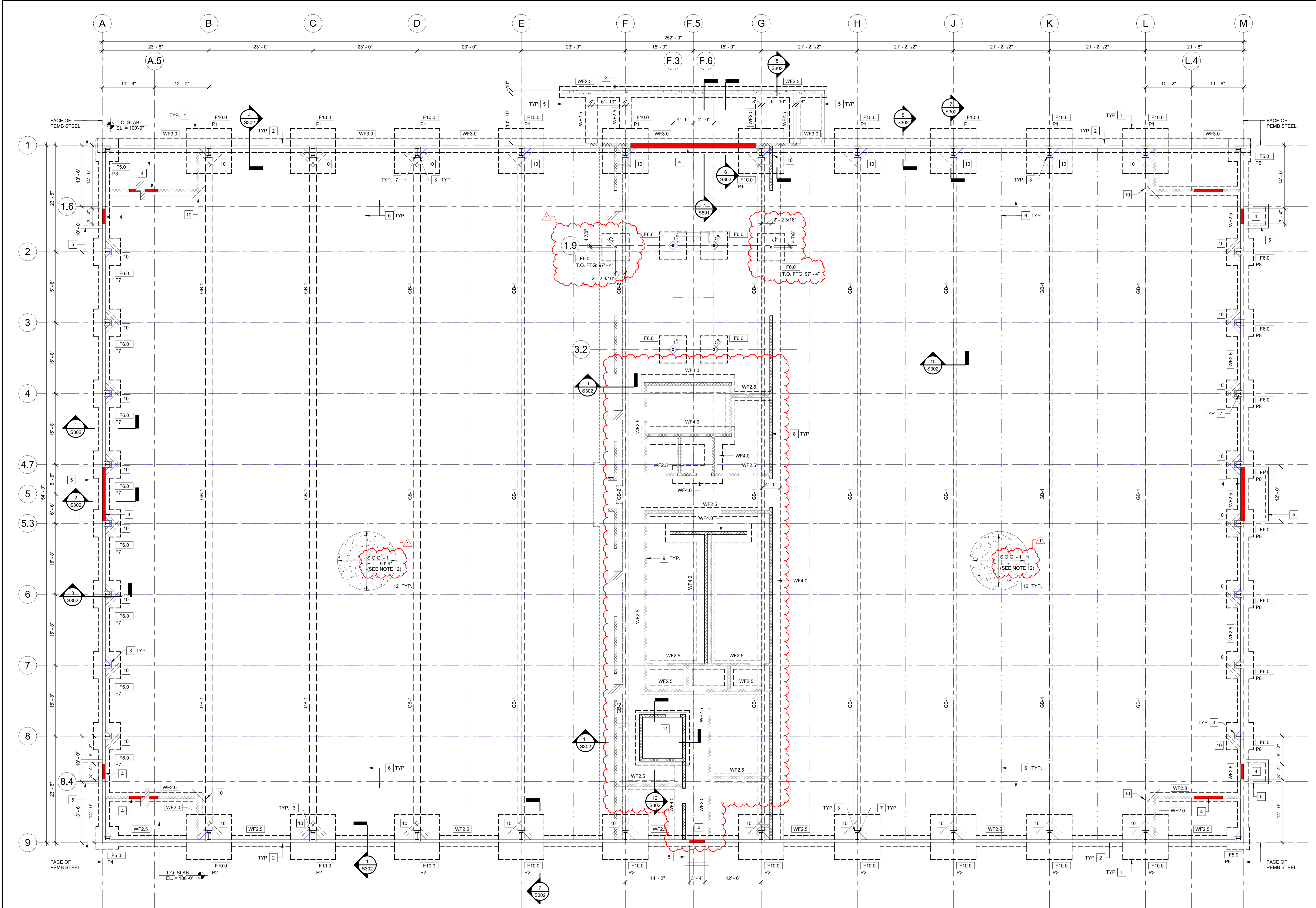
### **3.06 TOLERANCES**

- A. Framing Members: 1/4 inch from level; 1/8 inch from plumb.
- B. Siding and Roofing: 1/8 inch from true position.

**END OF SECTION**

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REVISIONS	
NO.	DESCRIPTION
1	4/18/24 ADDENDUM #1
2	4/22/24 ADDENDUM #2



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

- GENERAL NOTES:**
- T.O. CONCRETE SLAB @ MAIN LEVEL EL. = 100'-0" (U.N.O.)
  - T.O. FOUNDATION WALL EL. = 100'-0" (U.N.O.)
  - T.O. FOOTING EL. = 98'-0" (U.N.O.)
  - SOC-1 - INDICATES SLAB ON GRADE CONSTRUCTION REINFORCED WITH 6x6-W2.9xW2.9 W.F. ATOP 6" COMPACTED GRANULAR FILL (TYPE 5)
  - FX-X - INDICATES CONCRETE SPREAD FOOTING AT STEEL COLUMN OR CONCRETE PIER. SEE PLAN AND SCHEDULE FOR SIZE AND REINFORCING.
  - WPX-X - INDICATES CAST-IN-PLACE CONCRETE WALL FOOTING AT CMU OR CONCRETE FOUNDATION WALL. SEE PLAN AND SCHEDULE FOR SIZE AND REINFORCING.
  - PX - INDICATES CAST-IN-PLACE CONCRETE PIER. SEE PLAN AND DETAILS FOR ADDITIONAL INFORMATION.

- CX - INDICATES STEEL COLUMN. SEE PLAN AND COLUMN SCHEDULE FOR ADDITIONAL INFORMATION.
- MW-X - INDICATES CMU BEARING WALL. PROVIDE VERTICAL DOWELS IN CONCRETE FOUNDATION WALL. SEE PLAN AND SCHEDULE FOR MASONRY REINFORCING SIZE AND SPACING.
- GB-X - INDICATES CAST-IN-PLACE CONCRETE TIE BEAM. SEE DETAILS FOR SIZE AND REINFORCING.
- 11 - INDICATES DEPRESSED CONCRETE SLAB-ON-GRADE

12. REMOVE AND REPLACE GRADE BELOW AREA OF INTERIOR CONCRETE SLAB ON GRADE WITH 24" OF LOW VOLUME CHANGE FILL MATERIAL. SEE S001 FOR ADDITIONAL INFORMATION. GEOTECHNICAL TESTING AGENCY SHALL CONFIRM THE ACCEPTANCE OR NON-COMFORMANCE OF EXISTING SUBGRADE MATERIAL PRIOR TO REMOVAL AND REPLACEMENT.

**KEYED NOTES - FOUNDATION**

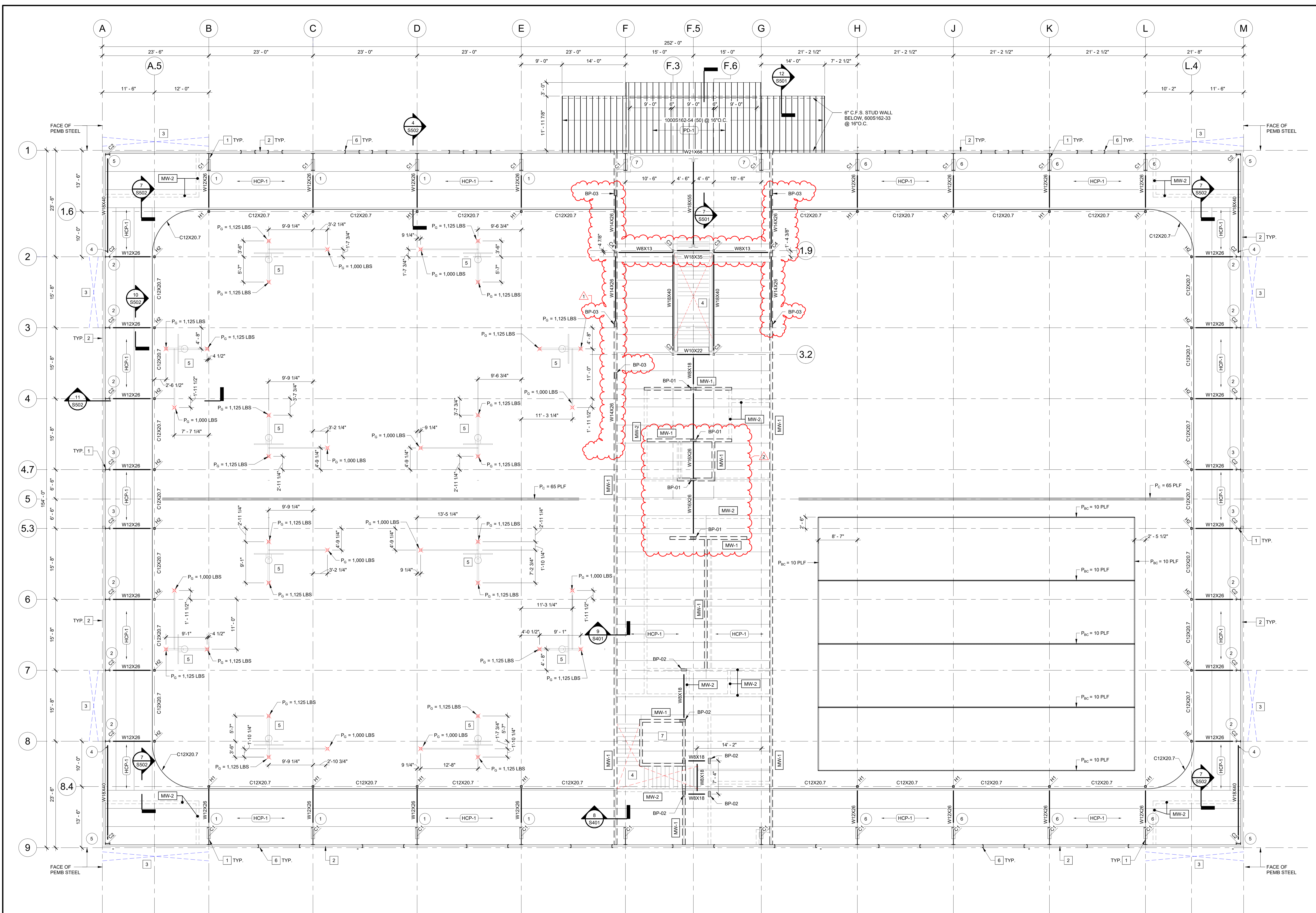
- | NO. | DESCRIPTION   |
|-----|---|
| 1.  | CAST-IN-PLACE CONCRETE COLUMN FOOTING. SEE SCHEDULE FOR SIZE AND REINFORCING.                                 |
| 2.  | CAST-IN-PLACE CONCRETE FOUNDATION WALL AND FOOTING. SEE DETAILS AND SCHEDULE FOR SIZE AND REINFORCING.        |
| 3.  | CAST-IN-PLACE CONCRETE PIER AT STEEL COLUMN.  |
| 4.  | DEPRESS CONCRETE FOUNDATION WALL AT EXTERIOR DOOR.  |
| 5.  | CAST-IN-PLACE CONCRETE EXTERIOR STOOP SLAB AND FOUNDATION WALLS. SEE CIVIL DRAWINGS.                          |
| 6.  | CONCRETE CONTROL OR CONSTRUCTION JOINT LOCATION. SEE STRUCTURAL NOTES AND DETAILS FOR ADDITIONAL INFORMATION. |
| 7.  | PEMB STEEL BUILDING COLUMN AND BASE PLATE, BY PEMB SUPPLIER.  |
| 8.  | INDICATES LOAD BEARING C.M.U. WALL (TYPICAL)  |

**KEYED NOTES - FOUNDATION**

- | NO. | DESCRIPTION  |
|-----|--|
| 9.  | INDICATES NON-LOAD BEARING C.M.U. WALL (TYPICAL)   |
| 10. | (2) #4x36" BARS AT REENTRANT CORNER  |
| 11. | CAST-IN-PLACE CONCRETE ELEVATOR PIT. PROVIDE 5" TOPPING SLAB AND GRANULAR FILL PER DETAILS.  |
| 12. | REFER TO INTERIOR FINISH PLANS FOR LOCATIONS WHERE SEALED CONCRETE SLAB ON GRADE WILL BE THE FINAL FINISH. AFTER CONCRETE SLAB ON GRADE HAS BEEN FINISHED PROTECT AREAS FROM ACTIVITIES THAT WILL DISCOLOR OR ALTER THE CONCRETE FINISH. |

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REVISIONS		
NO.	Date	Description
1	4/18/24	ADDENDUM #1
2	4/22/24	ADDENDUM #2



**1 SECOND LEVEL FRAMING PLAN**  
SCALE: 1/8" = 1'-0"

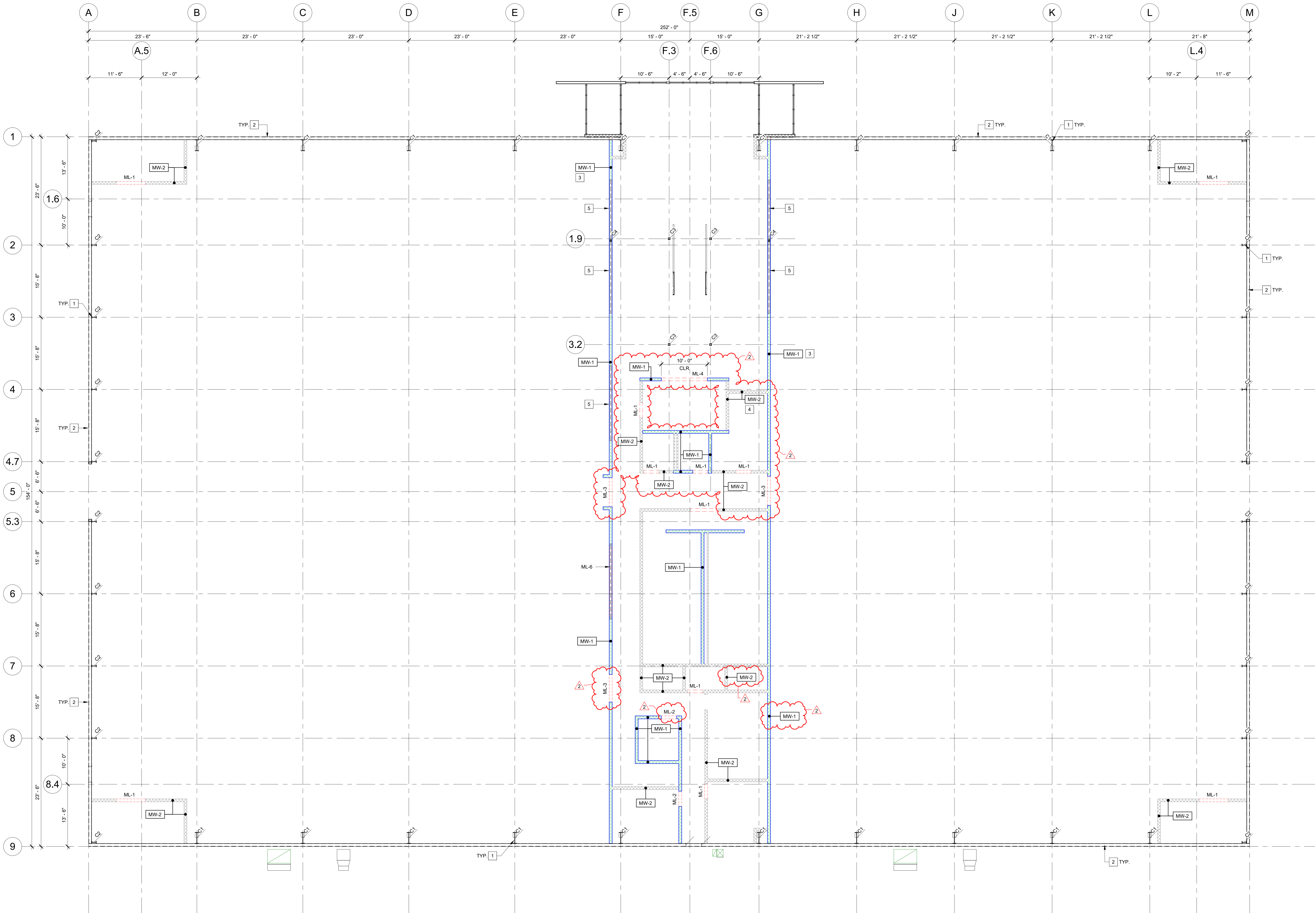
- GENERAL NOTES:**
- T.O. CONCRETE SLAB @ SECOND LEVEL (L.S. = 11'-4" (U.N.O.))
  - HCP-1 - INDICATES 6" PRECAST CONCRETE HOLLOW CORE PLANK WITH FULLY GROUTED KEYWAY JOINTS AND 2" NORMALWEIGHT CONCRETE TOPPING SLAB.
  - CX - INDICATES STEEL COLUMN. SEE PLAN AND SCHEDULE FOR SIZE.
  - HC - INDICATES STEEL HANGING COLUMN. SEE PLAN AND SCHEDULE FOR SIZE.
  - MW-X - INDICATES CMU WALLS (BEARING AND NON-BEARING). SEE PLAN AND SCHEDULE FOR SIZE AND REINFORCING REQUIREMENTS.
  - P<sub>0</sub> - INDICATES LOADS / FORCES APPLIED TO PEMB STEEL FRAMING FROM BASKETBALL GOALS.
  - P<sub>1</sub> - INDICATES LOADS / FORCES APPLIED TO PEMB STEEL FRAMING FROM DIVIDER CURTAIN SYSTEM.
  - P - INDICATES LOADS / FORCES APPLIED TO PEMB STEEL FRAMING FROM BASEBALL BATTING CAGE DIVIDER CURTAIN SYSTEM.
  - PD-1 - INDICATES 5/8" THICK PLYWOOD SHEATHING, SPAN PLYWOOD AS INDICATED.
  - - INDICATES FRAMING REACTIONS TO BE SUPPORTED BY PEMB STEEL FRAMING MEMBERS (STEEL BEAMS / COLUMNS). SEE SCHEDULE AND PLAN FOR REACTIONS.

**KEYED NOTES - FRAMING PLAN**

NO.	DESCRIPTION
1.	PEMB STEEL COLUMN
2.	PEMB STEEL Z-GIRT WALL FRAMING, BY PEMB SUPPLIER. (B.O.D. = 8" DEEP)
3.	PEMB VERTICAL BRACING LOCATION, FINAL DESIGN AND CONFIGURATION BY PEMB SUPPLIER.
4.	CONCRETE FILLED METAL PAN STAIR - DELEGATED DESIGN ELEMENT.
5.	ROOF MOUNTED ATHLETIC / SPECIALTY EQUIPMENT TO BE MOUNTED TO SUPPLEMENTAL STEEL FRAMING PROVIDED BY PEMB SUPPLIER. SEE THIS SHEET FOR BASIS OF DESIGN AND SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. C.G. TO COORDINATE OPERATING WEIGHTS, LOADS, DIMENSIONS AND OVERALL LOCATIONS OF EQUIPMENT.
6.	PEMB JAMB FRAMING FOR WINDOWS AND DOORS. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.

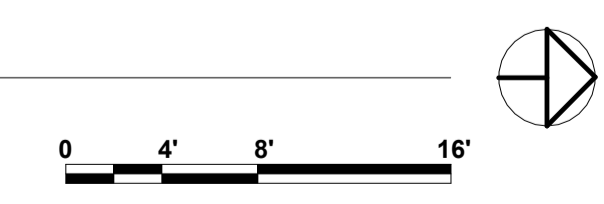
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1	4/18/24	ADDENDUM #1
2	4/22/24	ADDENDUM #2



**1 MAIN LEVEL MASONRY LINTEL PLAN**

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



- GENERAL NOTES:**
1. T.O. CONCRETE SLAB @ MAIN LEVEL EL. = 100'-0" (U.N.O.) (REFERENCE)
  2. T.O. CONCRETE SLAB @ SECOND LEVEL EL. = 114'-0" (U.N.O.) (REFERENCE)
  3. CX - INDICATES STEEL COLUMN. SEE PLAN AND SCHEDULE FOR SIZE.
  4. MW-X - INDICATES CMU WALLS (BEARING AND NON-BEARING). SEE PLAN AND SCHEDULE FOR SIZE AND REINFORCING REQUIREMENTS.
  5. ML-X - INDICATES MASONRY WALL LINTEL. SEE PLAN AND SCHEDULE FOR SIZE AND CONFIGURATION.

**KEYED NOTES - LINTEL PLAN**

- | NO. | DESCRIPTION   |
|-----|---|
| 1.  | STEEL PEMB COLUMN. SEE PLAN AND SCHEDULE FOR ADDITIONAL INFORMATION.  |
| 2.  | STEEL PEMB WALL GIRT FRAMING  |
| 3.  | INDICATES LOAD BEARING C.M.U. WALL (TYPICAL)                          |
| 4.  | INDICATES NON-LOAD BEARING C.M.U. WALL (TYPICAL)                      |
| 5.  | MASONRY LINTEL / BEAM ABOVE, SEE SHEET S101 OR S102 FOR FRAMING SIZE. |

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LINTEL SCHEDULE						
LOCATION	MARK	WALL TYPE	SIZE	MIN. BEARING	END CONDITION	REMARKS
INTERIOR	ML-1	8" CMU	8"x8" CMU BOND BEAM W/ (1) #4 BAR	8"	BOTTOM BARS EXTEND 24" PAST EDGE OF OPENING	DETAIL A
INTERIOR	ML-2	8" CMU	16"x8" CMU BOND BEAM W/ (2) #4 BARS	8"	BOTTOM BARS EXTEND 24" PAST EDGE OF OPENING	DETAIL A
INTERIOR	ML-3	8" CMU	24"x8" CMU BOND BEAM W/ (2) #4 BARS	8"	BOTTOM BARS EXTEND 24" PAST EDGE OF OPENING	DETAIL A
INTERIOR	ML-4	8" CMU	W12x30 W/ 3/8" x 7 1/4" BOTTOM PLATE	8"	WF BEARS ON BRG PLATE AT EACH END	DETAIL E
INTERIOR	ML-5	4" CMU	L6x4x3/8 (MAX CLEAR OPENING = 3'-0")	8"	ANGLE BEARS ON CMU AT EACH END	DETAIL C
INTERIOR	ML-6	8" CMU	W14x26 W/ 3/8" x 7 1/4" BOTTOM PLATE	8"	WF BEARS ON BRG PLATE AT EACH END	DETAIL E

**NOTES:**  
 1. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND SIZES OF ALL MASONRY OPENINGS.  
 2. BOND BEAMS WITH MULTIPLE COURSES SHALL BE CONSTRUCTED MONOLITHICALLY TO THE COURSE DEPTH INDICATED IN THE SCHEDULE.

### 1 LINTEL SCHEDULE

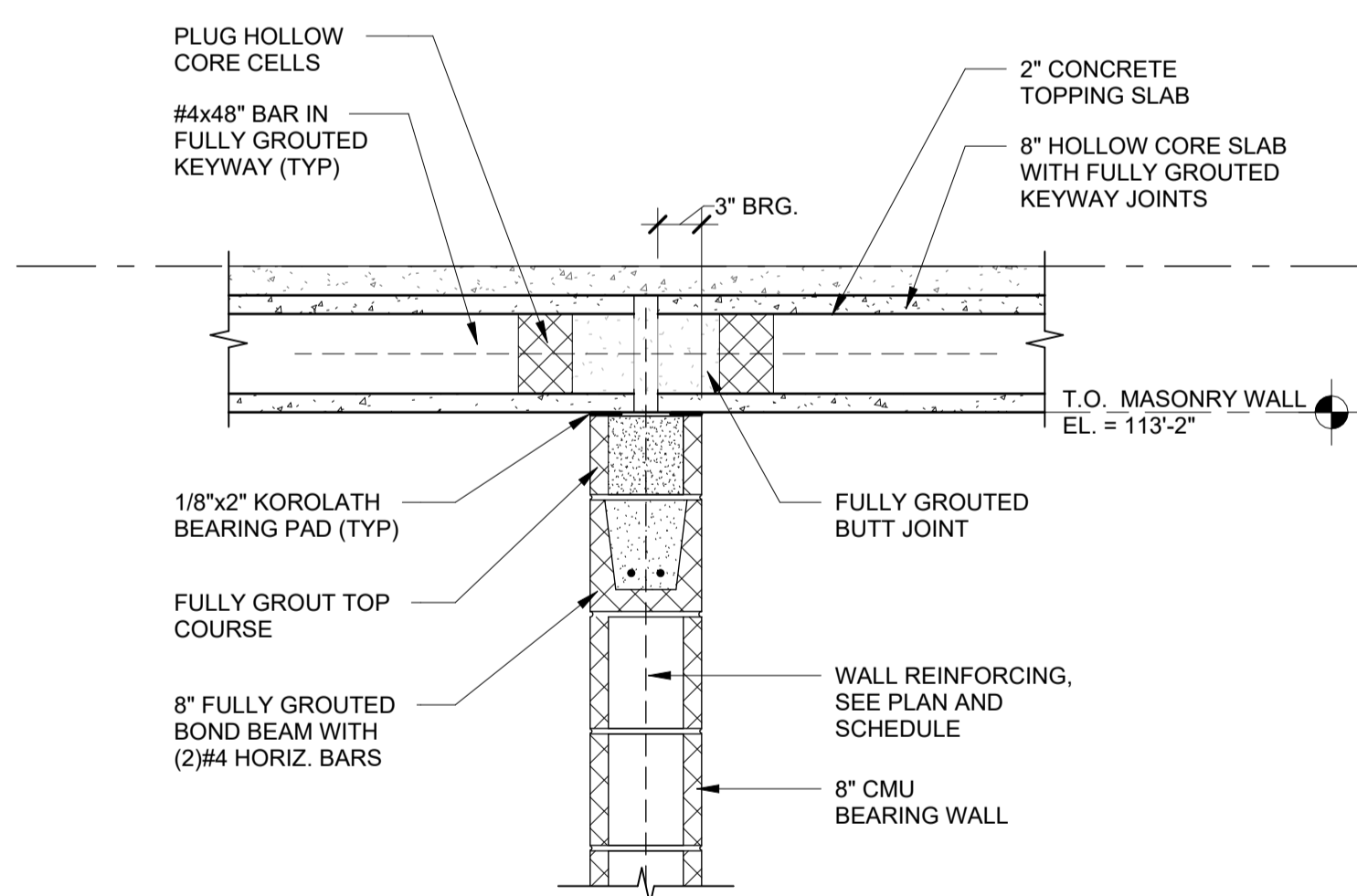
SCALE: 1" = 1'-0"

MASONRY WALL SCHEDULE					
LOCATION	WALL MARK	NOMINAL THICKNESS	TYPE	VERTICAL REIN. BARS, EXTEND INTO FOOTING OR FOUNDATION	REMARKS
INTERIOR	MW-1	8"	BEARING	#5 @ 32"	
INTERIOR	MW-2	8"	NON-BEARING	#4 @ 80"	SEE MASONRY LINTEL TYPE ML-1 FOR 3'-0" DOOR OPENINGS IN NON-BEARING WALLS

**NOTES:**  
 1. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND SIZES OF ALL MASONRY OPENINGS.  
 2. SEE LINTEL SCHEDULE FOR TYPE AND SIZE OF LINTEL REQUIRED FOR WALL TYPE.  
 3. BOND BEAMS WITH MULTIPLE COURSES SHALL BE CONSTRUCTED MONOLITHICALLY TO THE COURSE DEPTH INDICATED IN THE SCHEDULE.  
 4. SCHEDULE FOR MASONRY WALL CONSTRUCTION PROVIDES INFORMATION FOR THE STRUCTURAL PORTIONS OF MASONRY WALL CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WALL COMPONENTS INCLUDING (BUT NOT LIMITED TO: INSULATION, EIFS, AIR AND VAPOR BARRIERS, FACE BRICK, GA STEEL WIRE TIES ETC.)

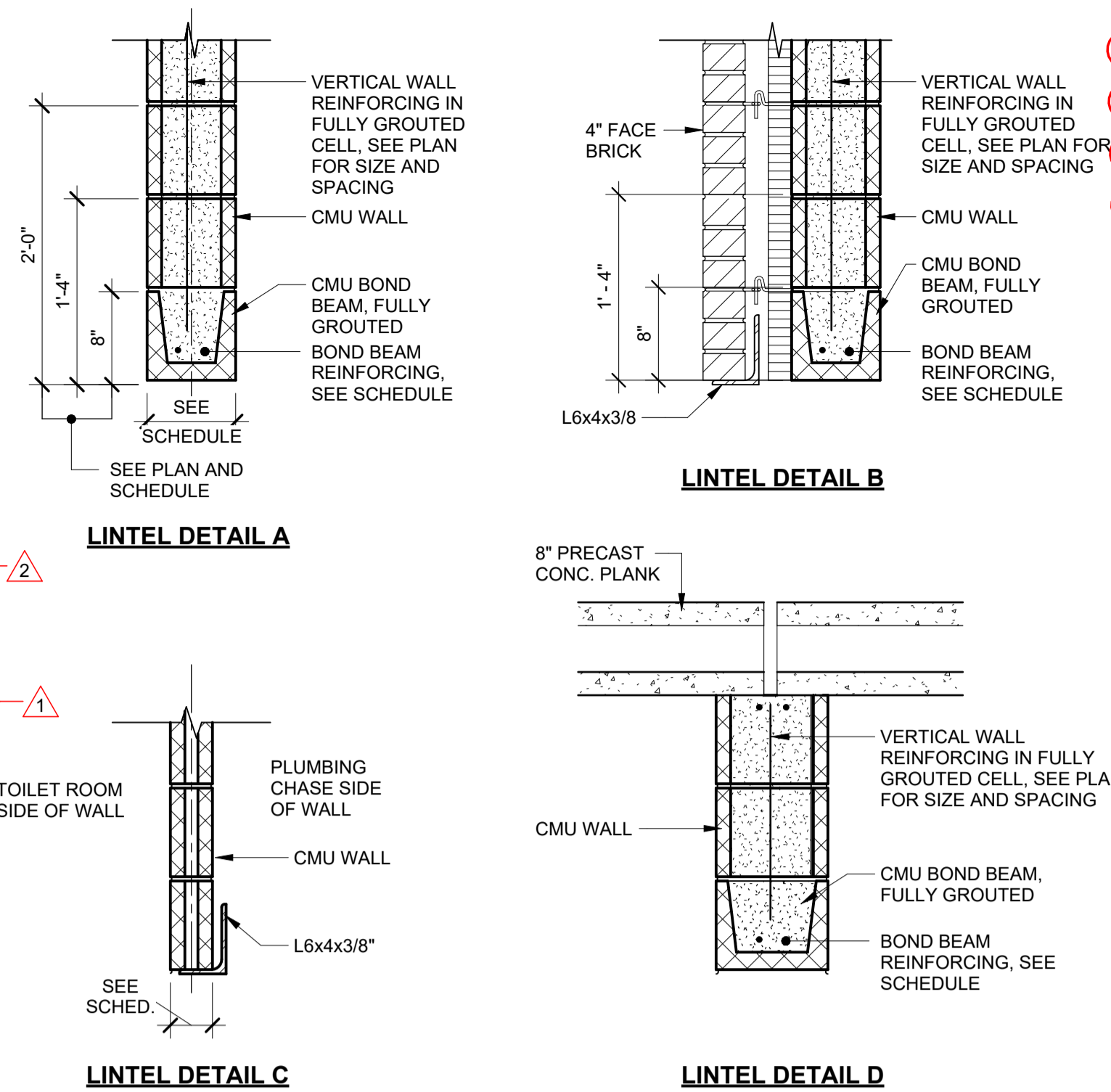
### 5 MASONRY WALL SCHEDULE

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



### 8 PRECAST HOLLOW CORE PLAN BEARING DETAIL

SCALE: 1" = 1'-0"

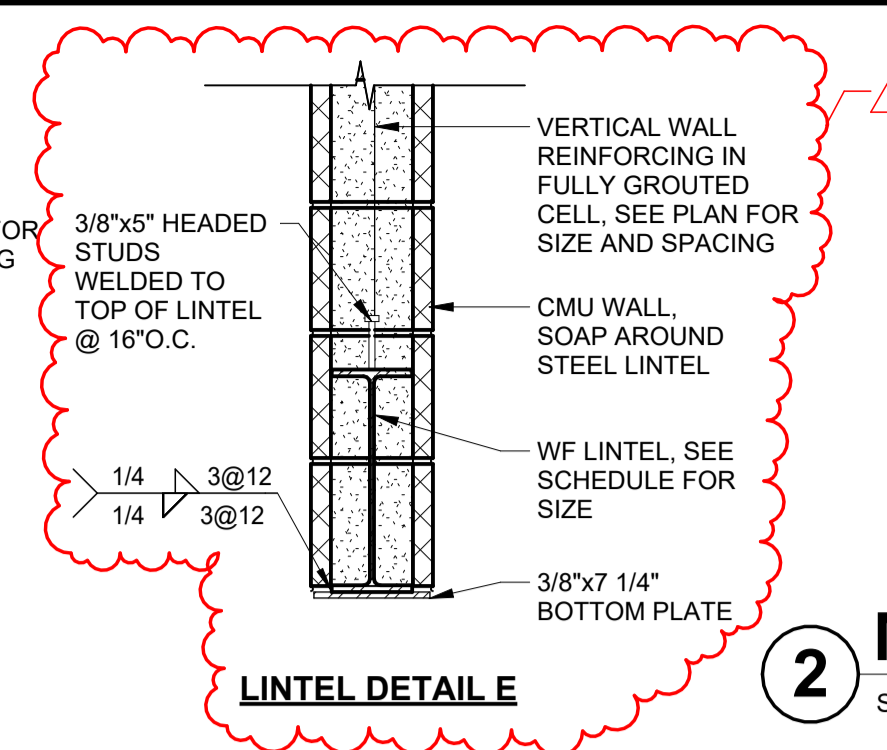


LINTEL DETAIL A

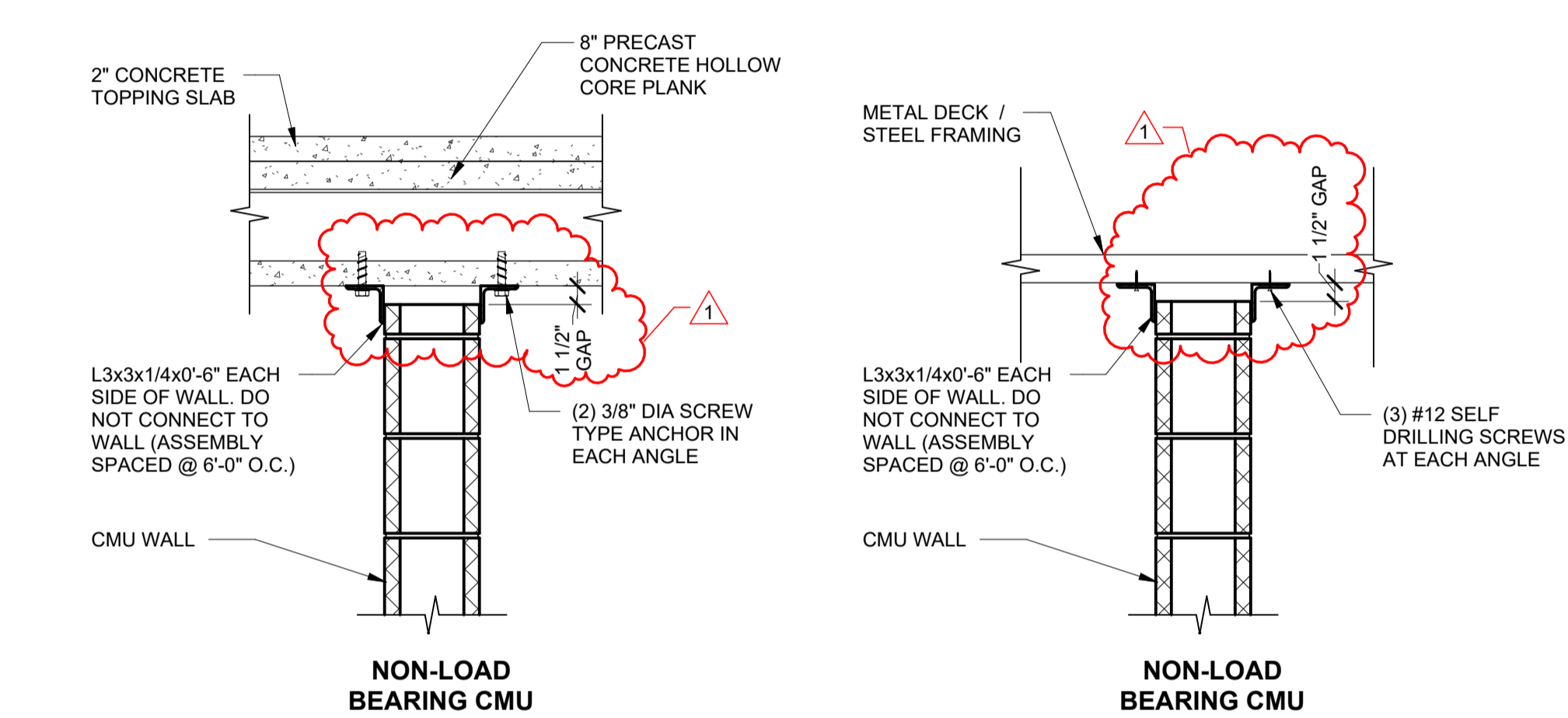
LINTEL DETAIL C

LINTEL DETAIL B

LINTEL DETAIL D

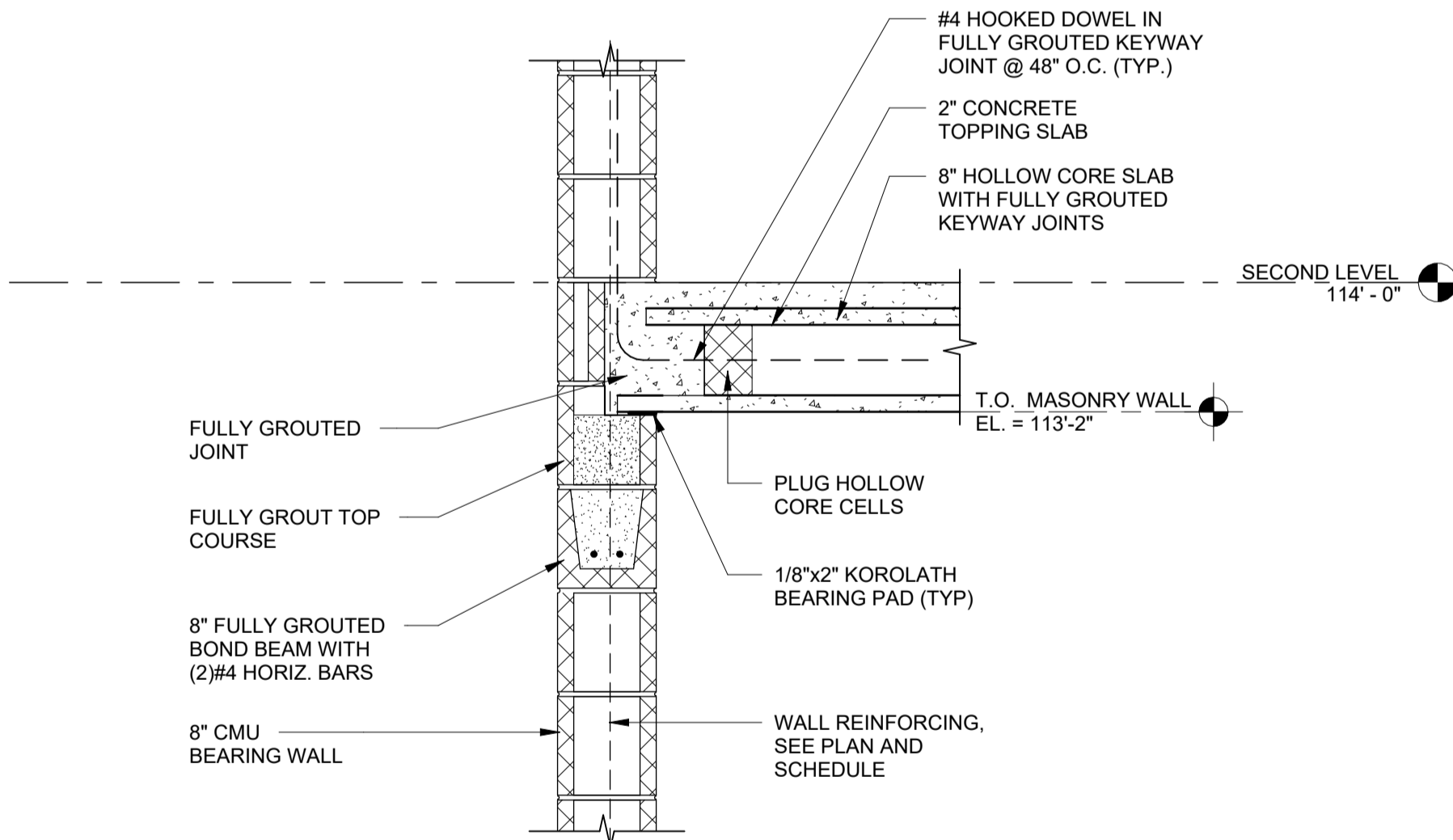


LINTEL DETAIL E



### 6 TOP OF WALL DETAILS

SCALE: 1" = 1'-0"

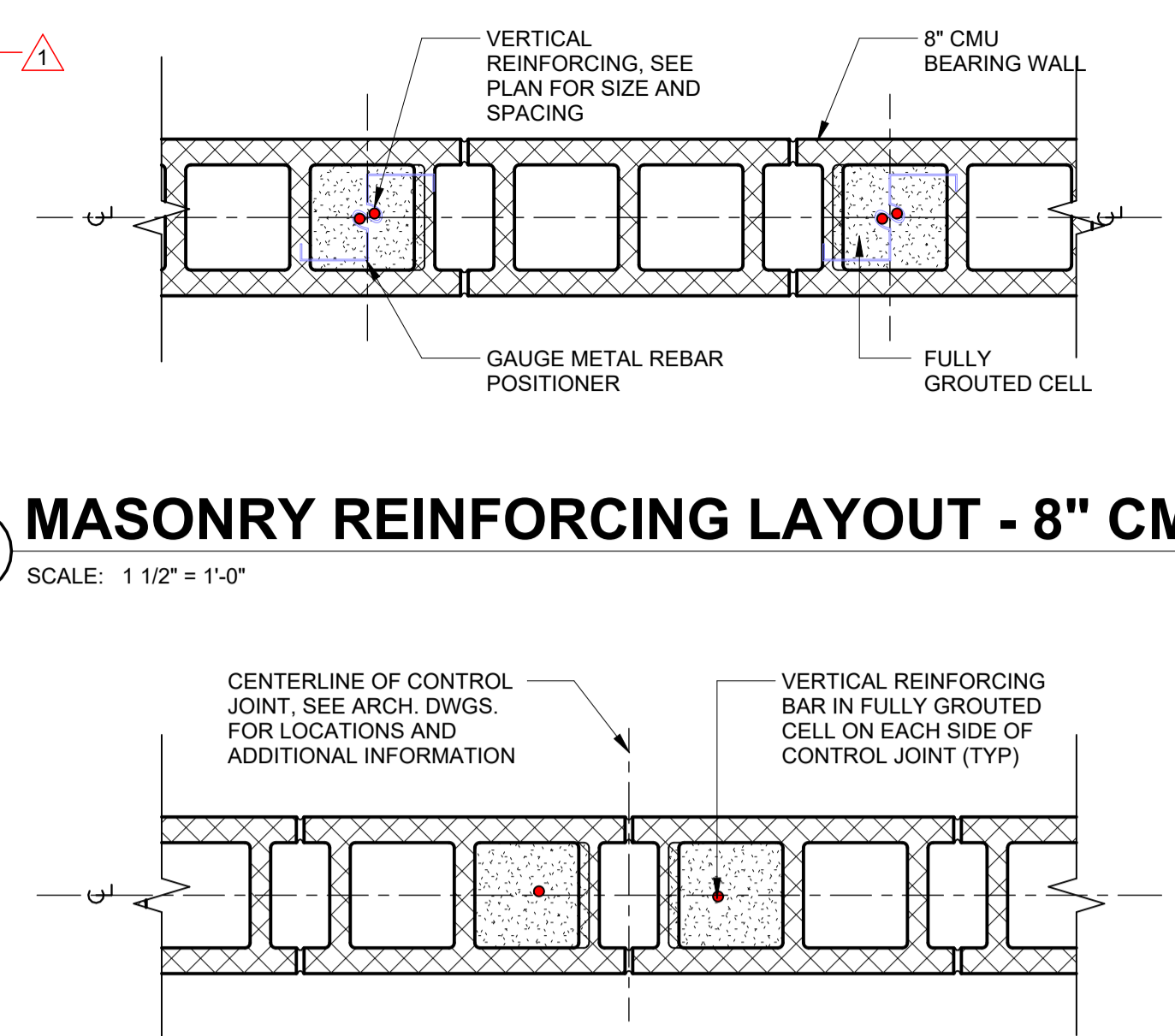


### 9 PRECAST HOLLOW CORE PLAN BEARING DETAIL

SCALE: 1" = 1'-0"

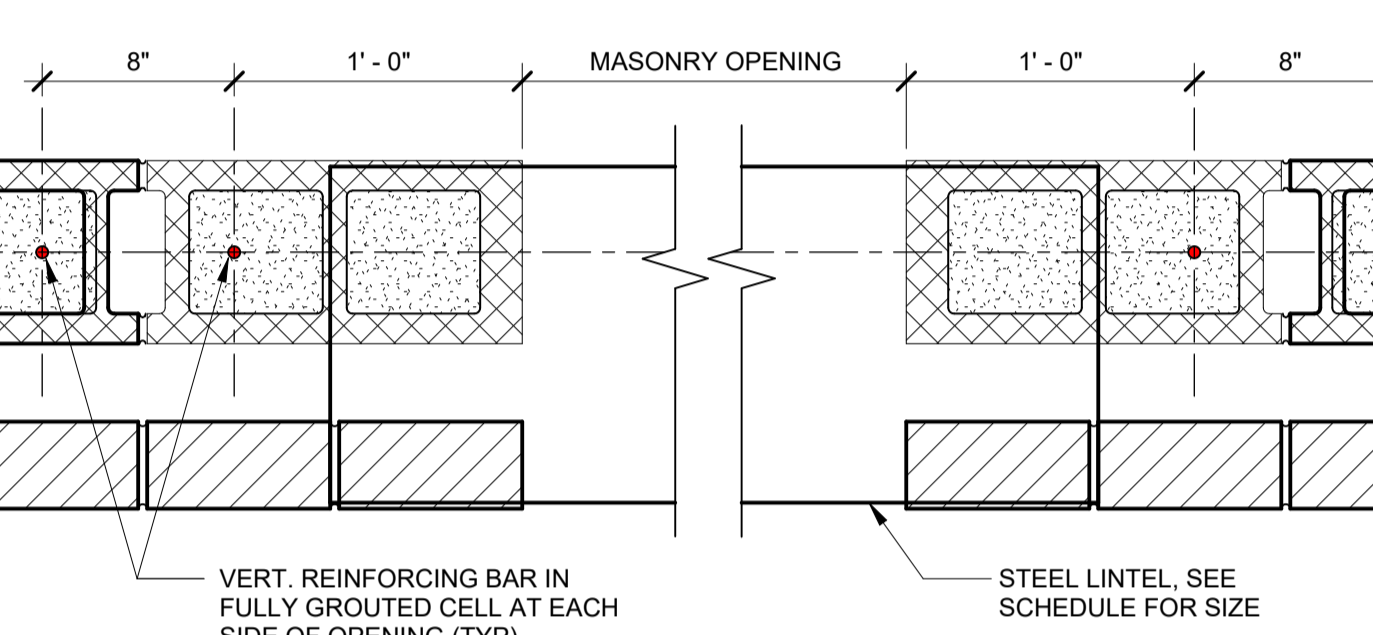
### 2 MASONRY REINFORCING LAYOUT - 8" CMU

SCALE: 1 1/2" = 1'-0"



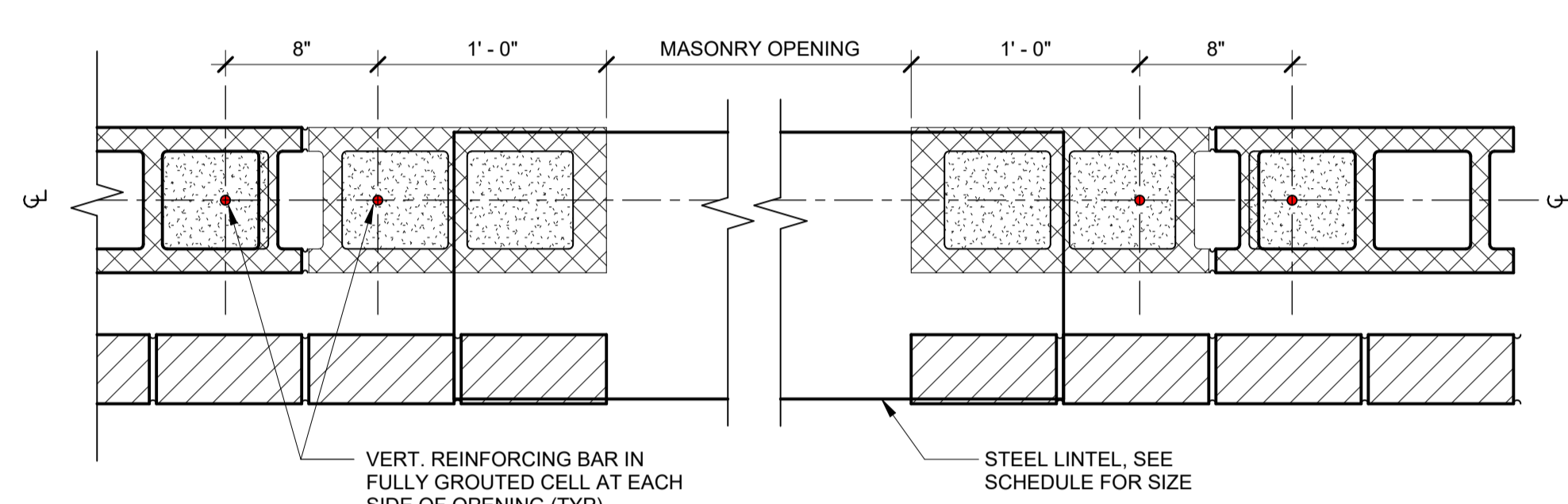
### 3 TYPICAL CMU CONTROL JOINT DETAIL

SCALE: 1 1/2" = 1'-0"



### 7 TYPICAL EXTERIOR CMU OPENING REINFORCING DETAIL

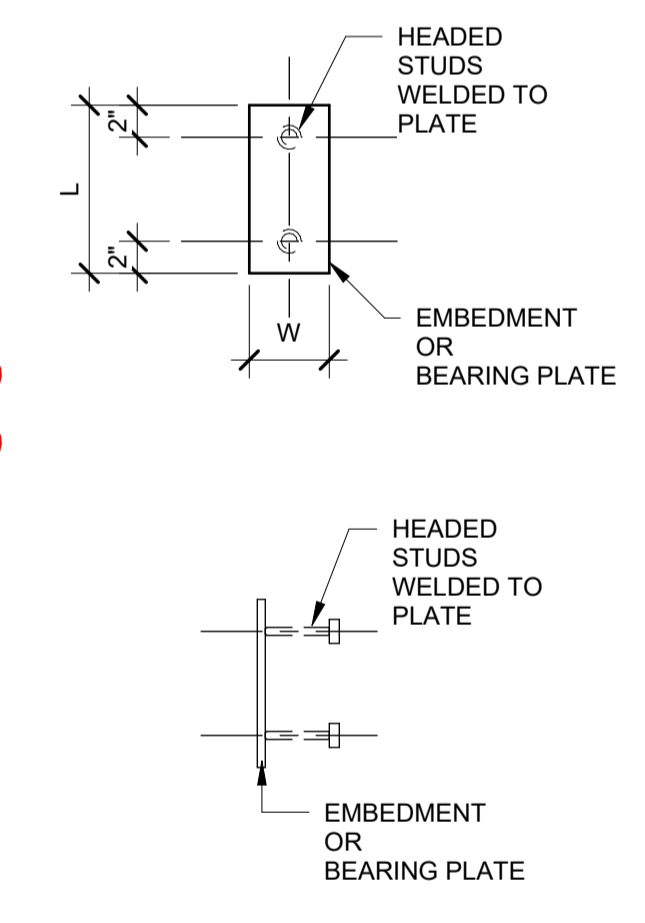
SCALE: 1 1/2" = 1'-0"



BEARING PLATE SCHEDULE				
MARK	PLATE SIZE (th x W x L)	# HEADED STUDS	T.O. PLATE ELEVATION	REMARKS
BP-01	1/2"x8"x1'-2"	(2) 1/2" DIA. x5"	111'-10 1/4"	
BP-02	1/2"x8"x1'-0"	(2) 1/2" DIA. x5"	112'-5 7/8"	
BP-03	1/2"x8"x1'-2"	(2) 1/2" DIA. x5"	112'-0 1/8"	
BP-04	1/2"x8"x1'-2"	(2) 1/2" DIA. x5"	107'-4 3/8"	

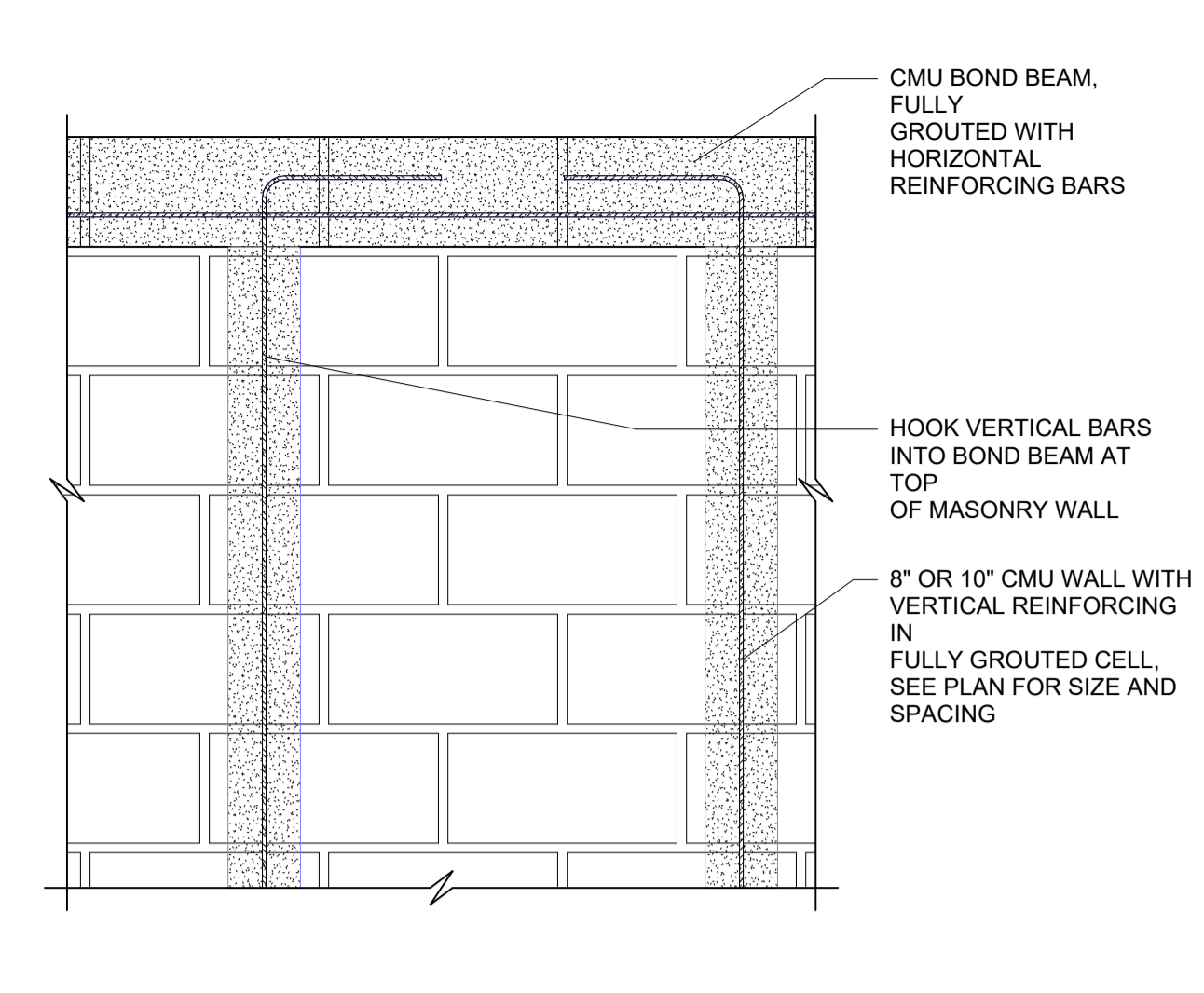
### 10 BEARING PLATE SCHEDULE

SCALE: 1" = 1'-0"



### 4 BOND BEAM REINFORCING DETAIL

SCALE: 1" = 1'-0"



### BIDDING PHASE

NOT FOR CONSTRUCTION

ISSUE DATE: 04/02/24

### REVISIONS

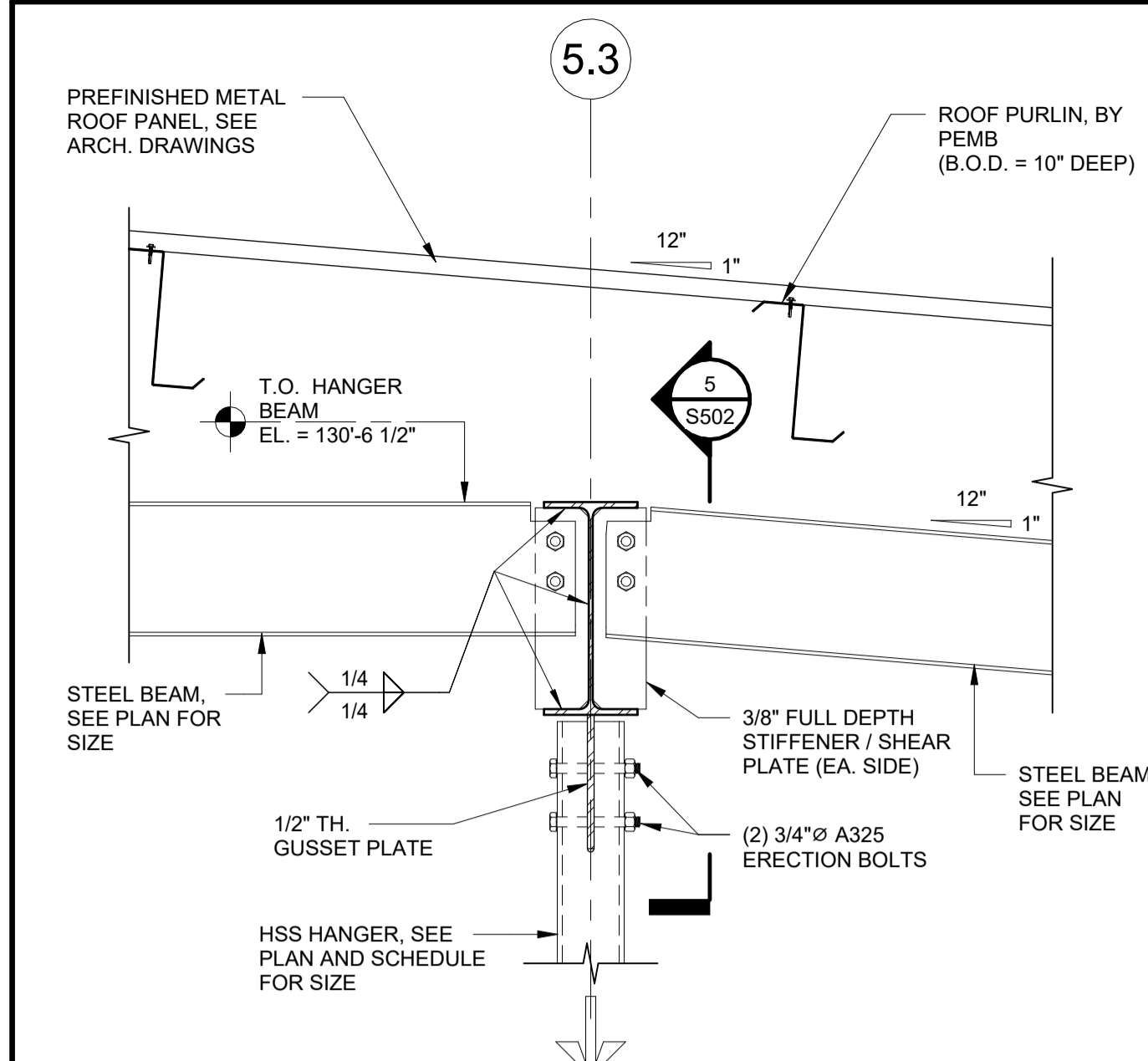
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1	4/18/24	ADDENDUM #1
2	4/22/24	ADDENDUM #2

PROJECT NUMBER: 6463

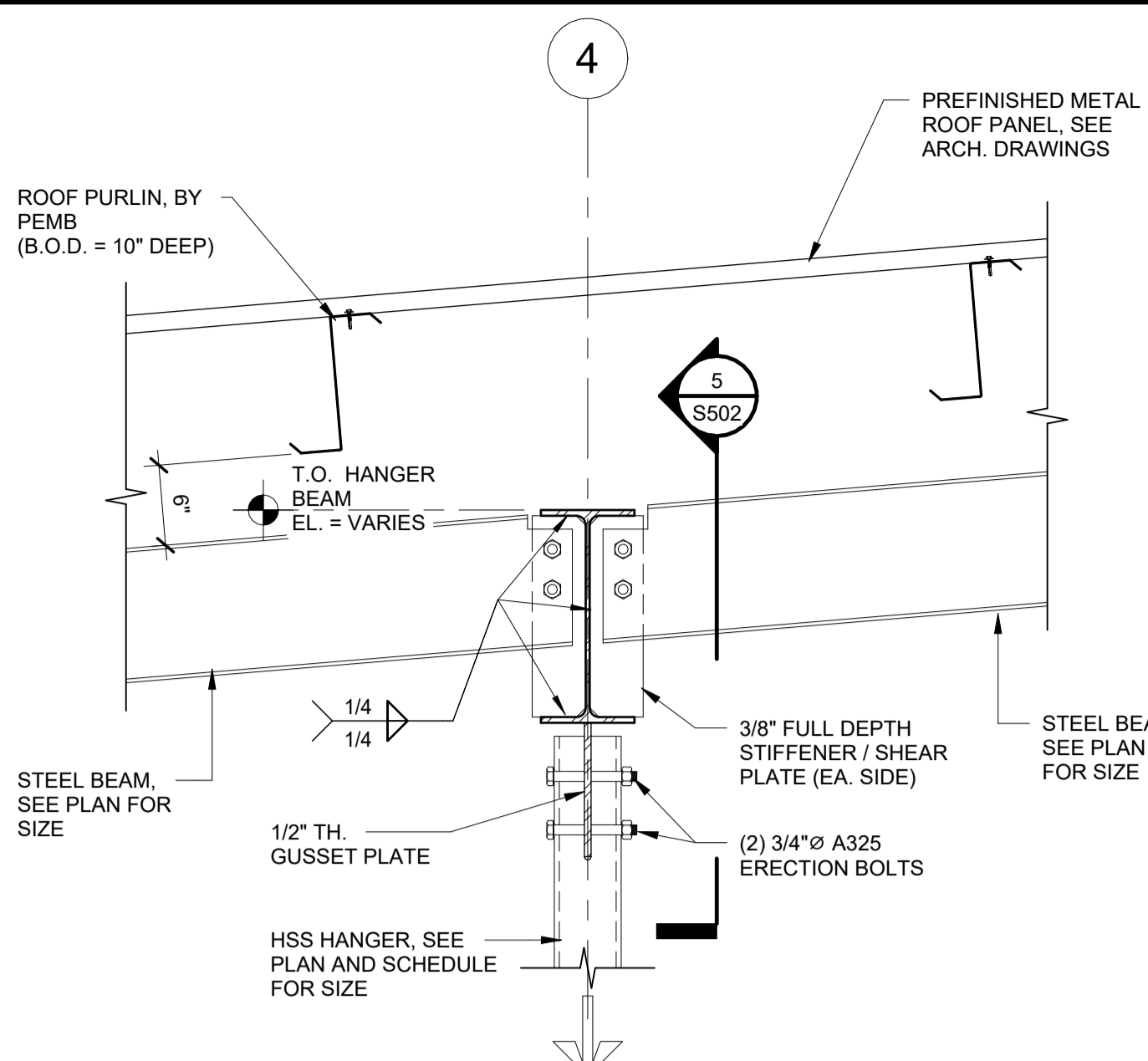
### MASONRY DETAILS

DWG. NO.

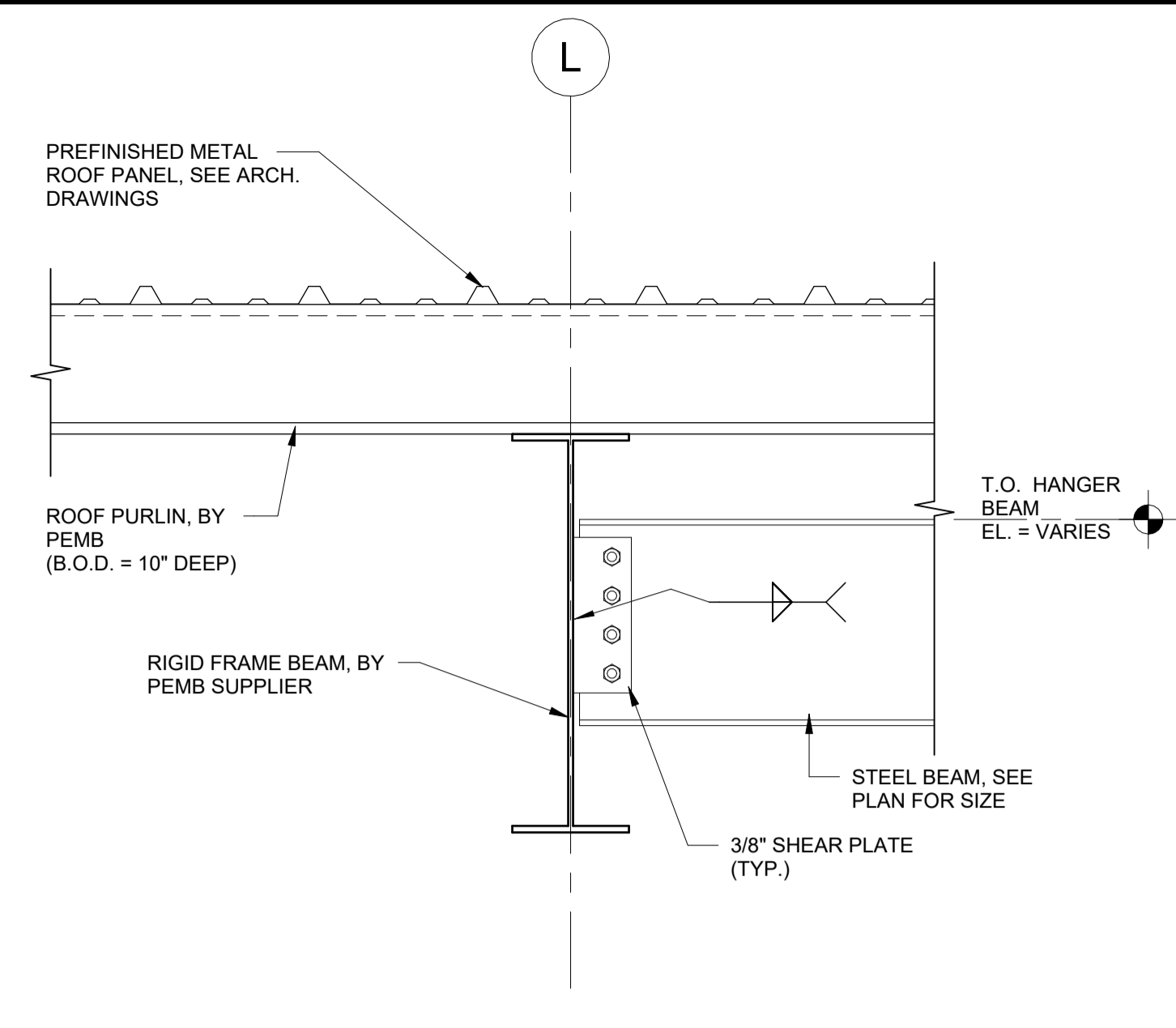
S401



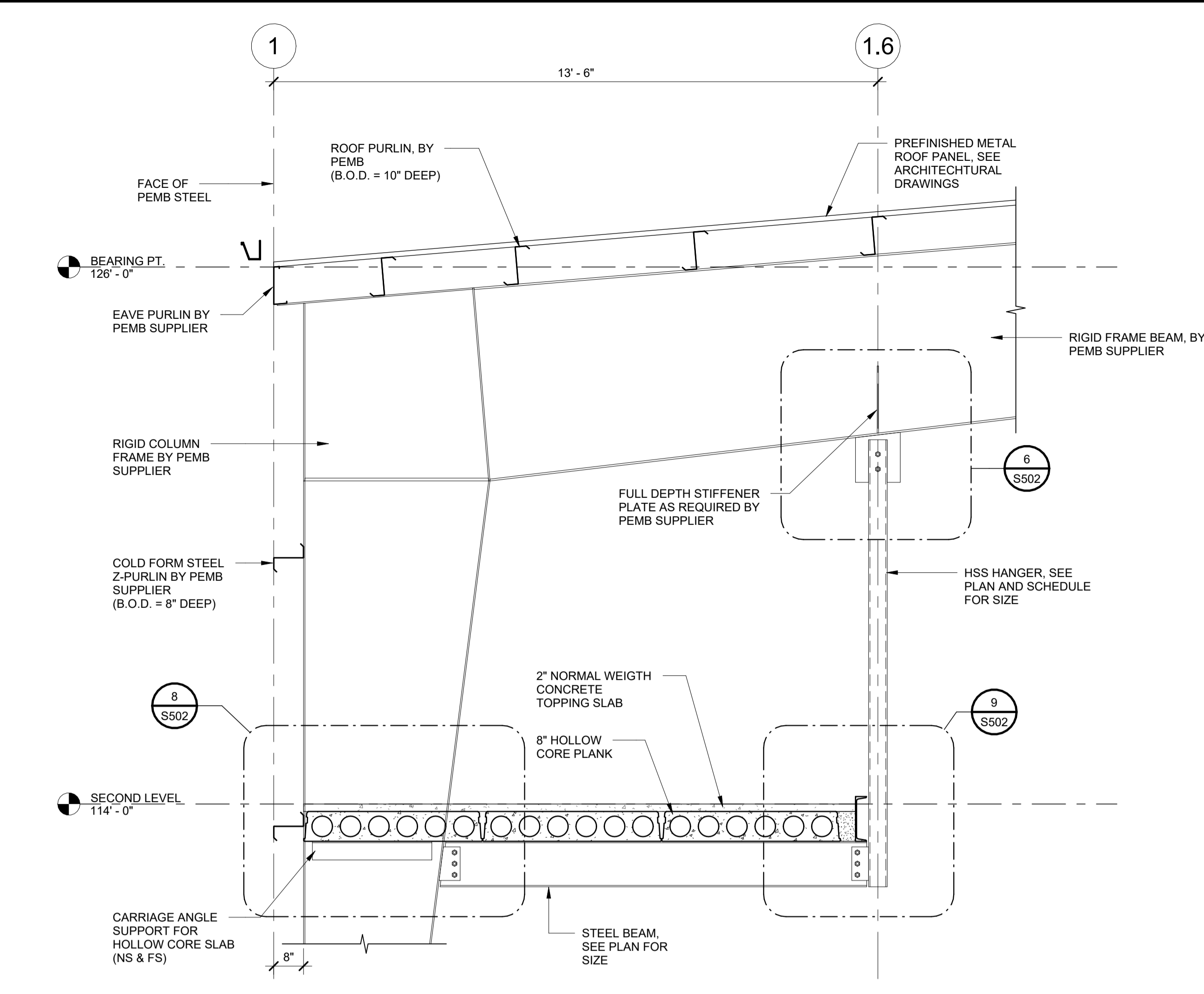
**1 STEEL DETAIL AT ROOF**  
 SCALE: 1" = 1'-0"



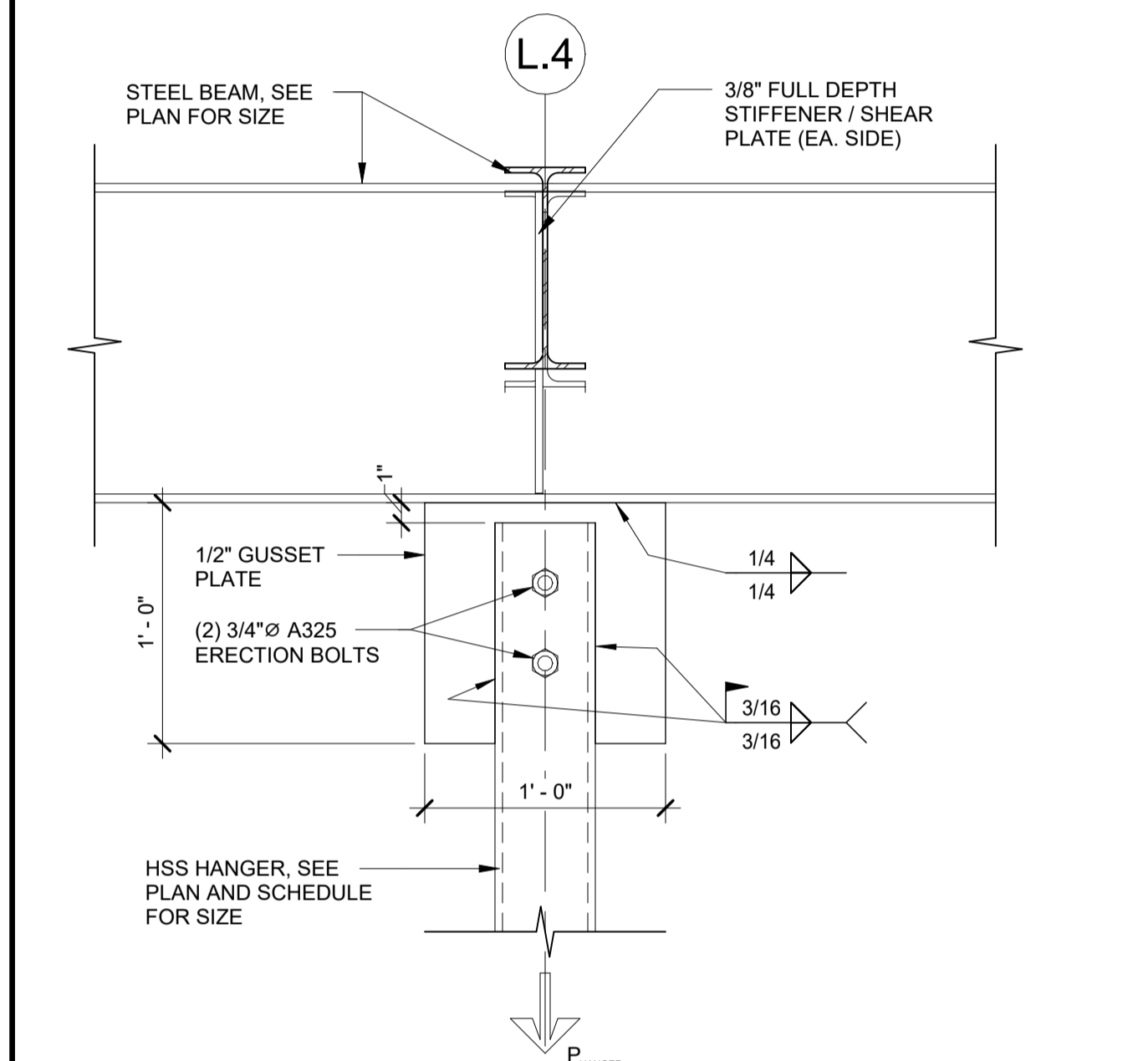
**2 STEEL DETAIL AT ROOF**  
 SCALE: 1" = 1'-0"



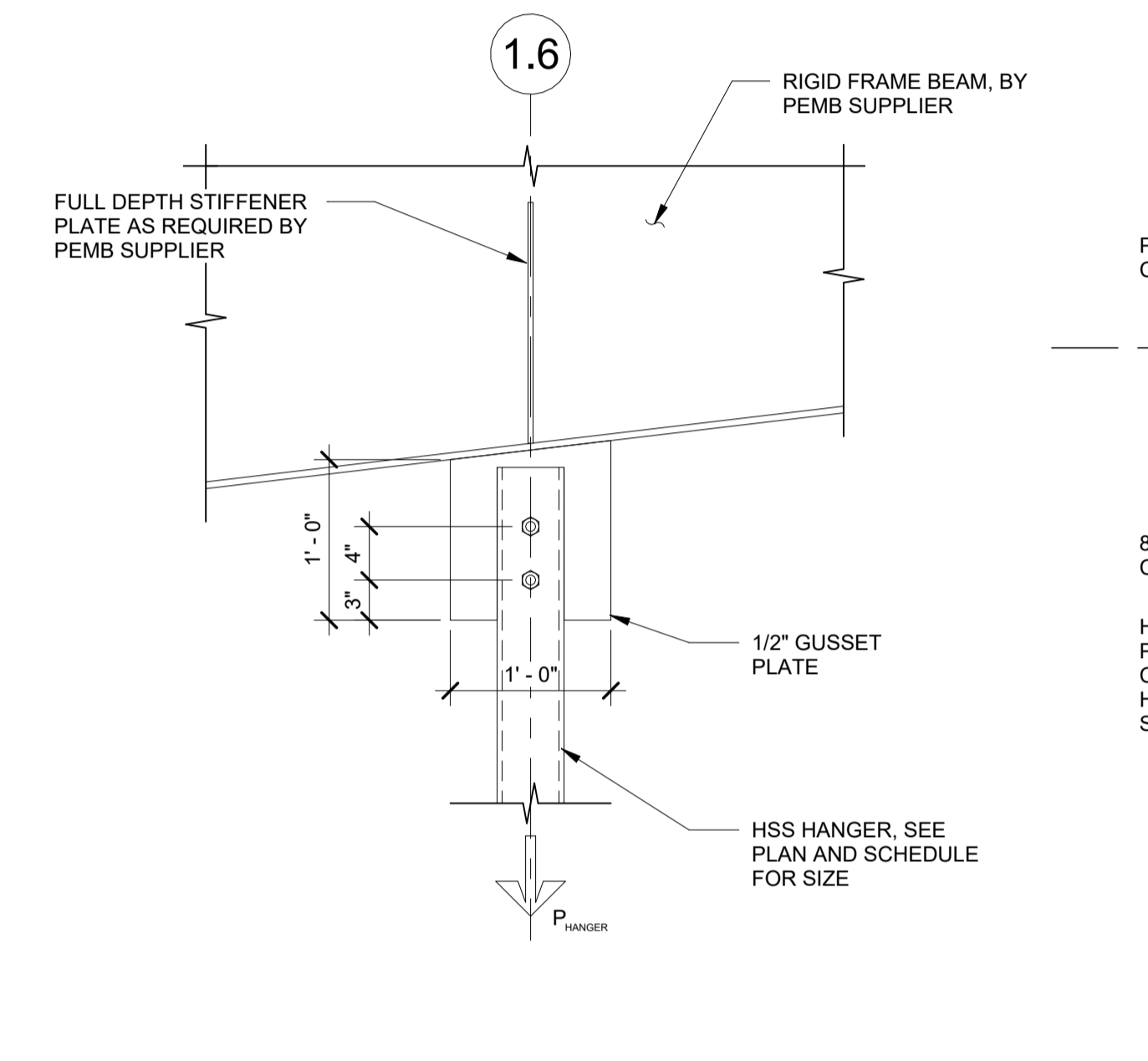
**3 STEEL DETAIL AT ROOF**  
 SCALE: 1" = 1'-0"



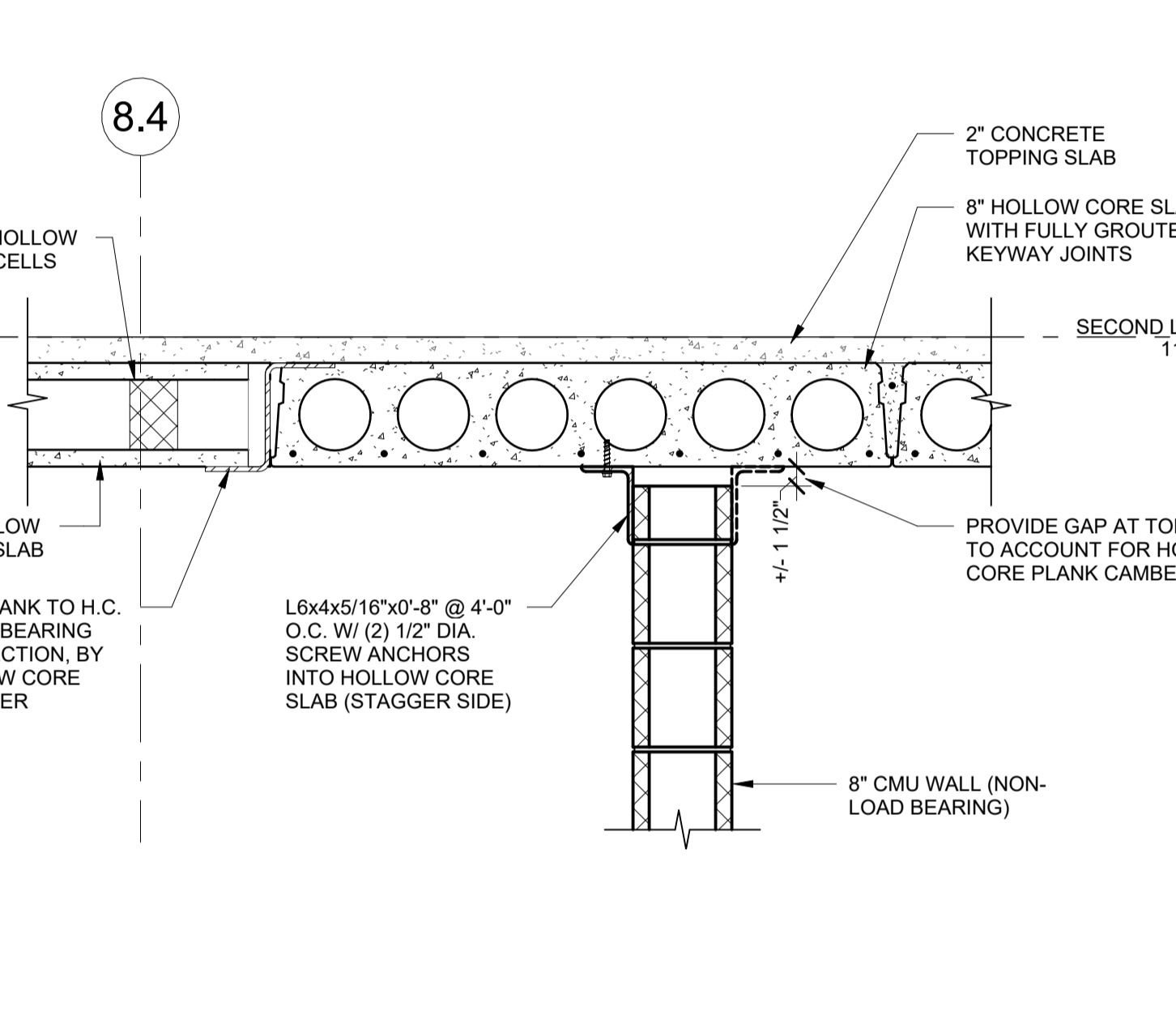
**4 STEEL DETAIL AT MEZZANINE / ROOF**  
 SCALE: 1/2" = 1'-0"



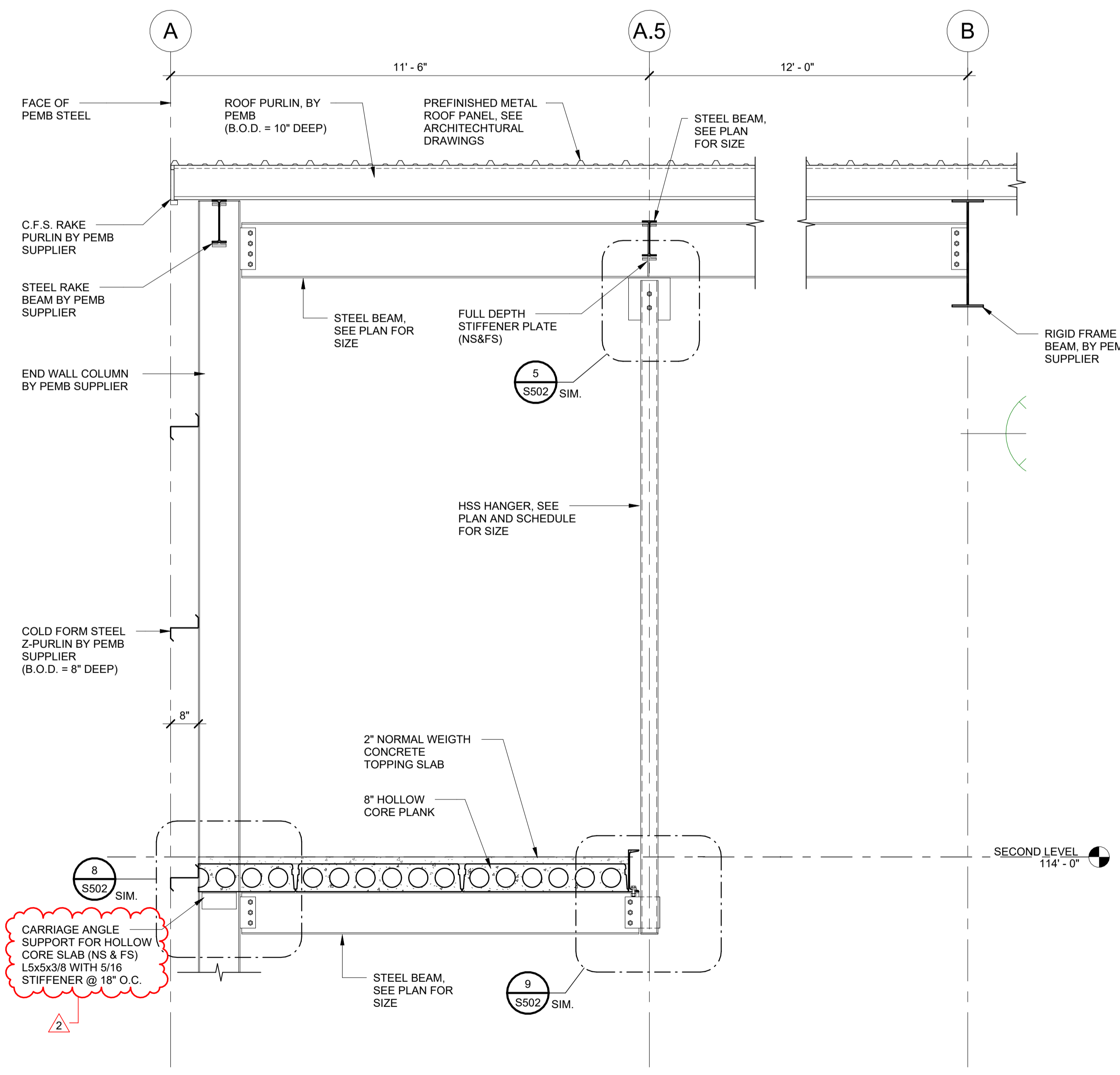
**5 STEEL HANGER DETAIL AT ROOF**  
 SCALE: 1 1/2" = 1'-0"



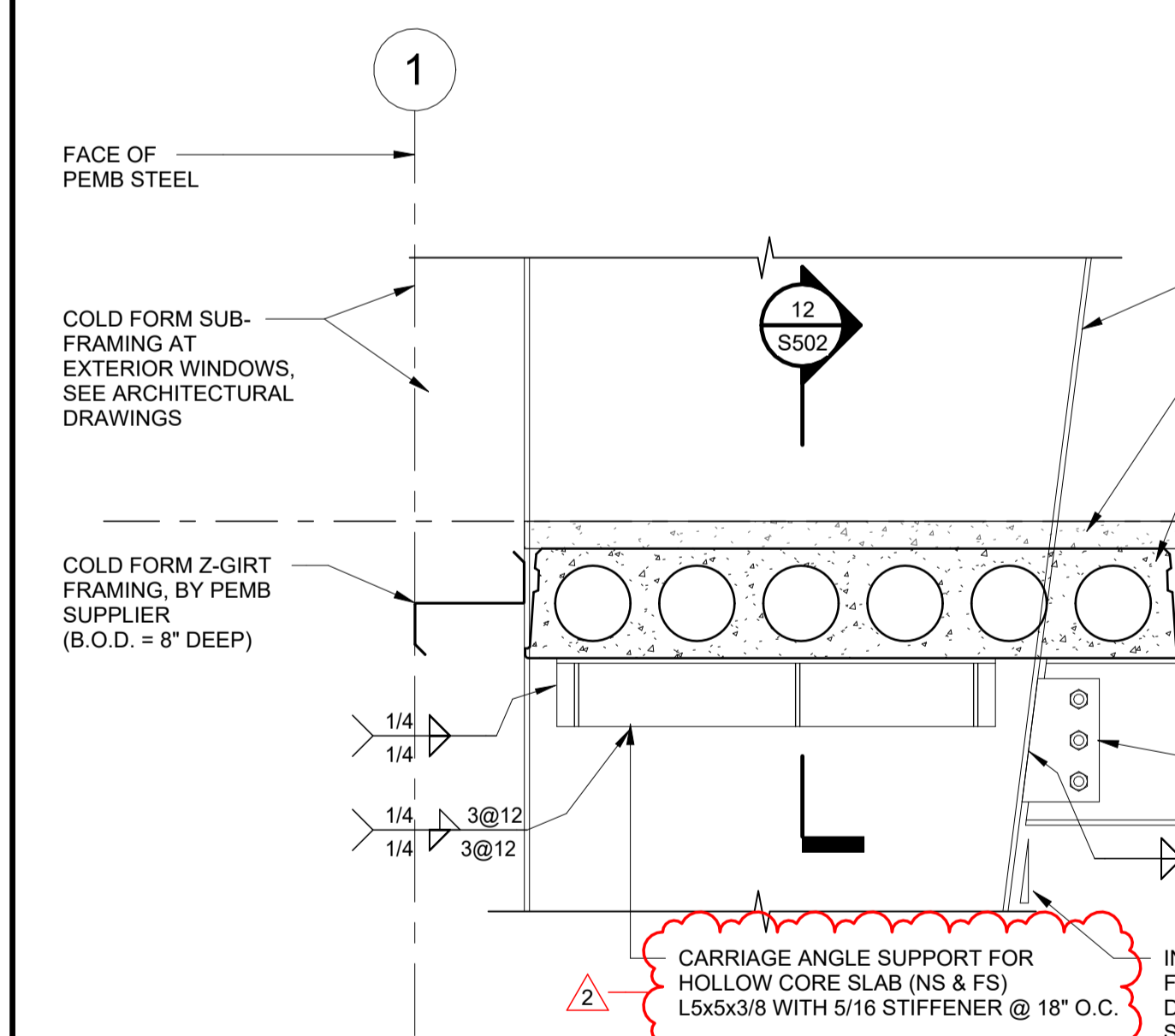
**6 STEEL DETAIL AT ROOF**  
 SCALE: 1" = 1'-0"



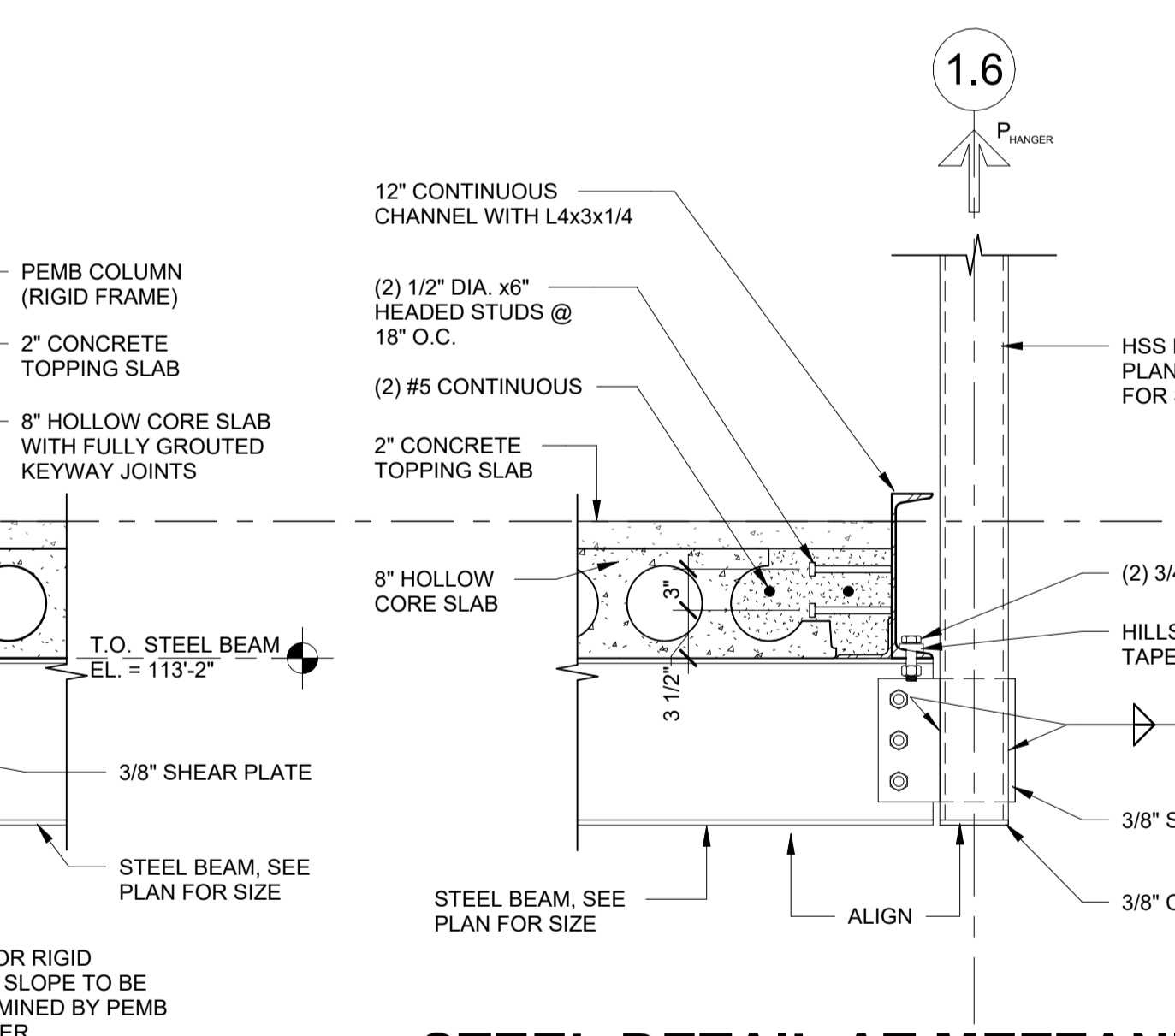
**7 TYPICAL PRECAST BEARING DETAIL**  
 SCALE: 1" = 1'-0"



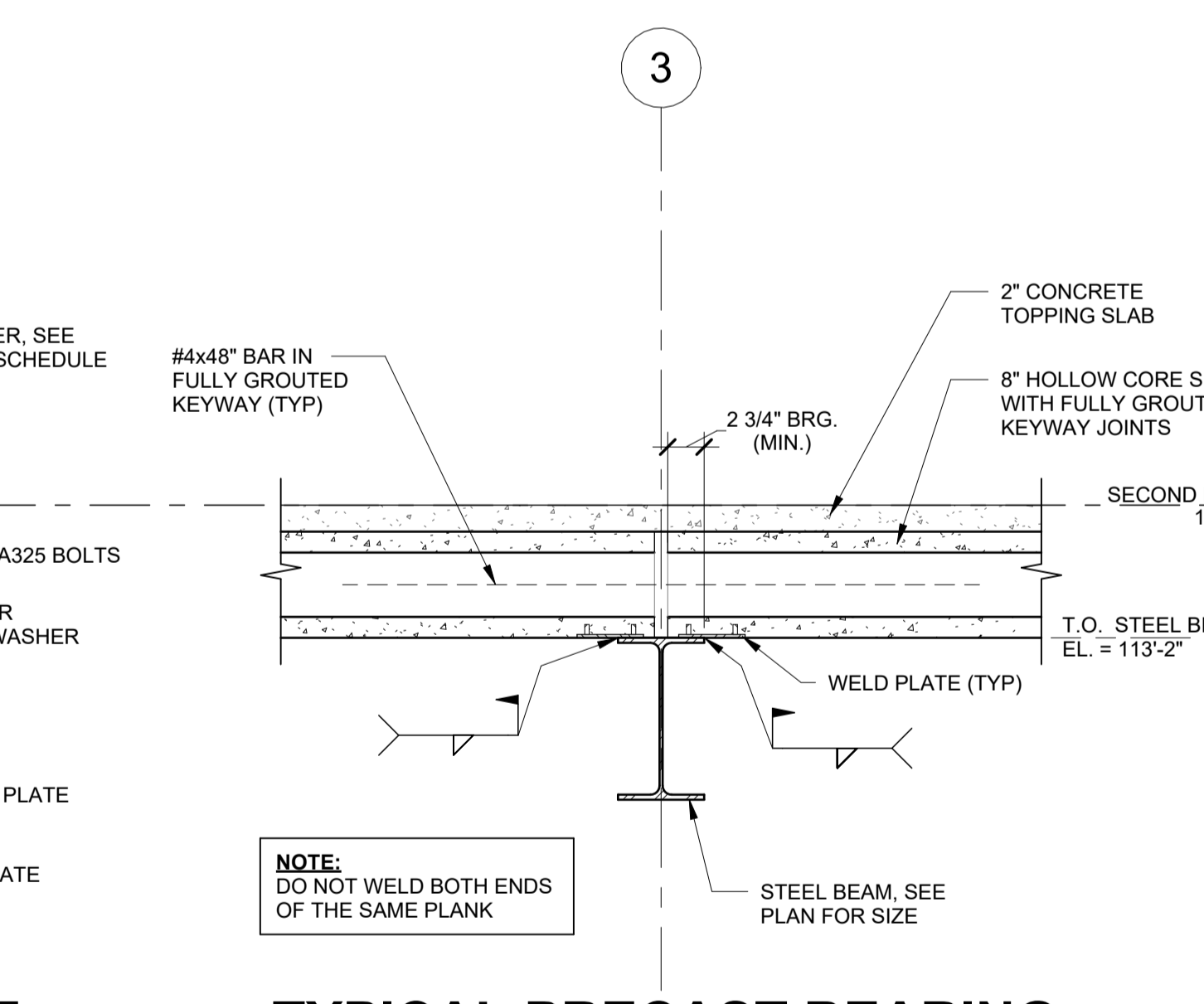
**11 STEEL DETAIL AT MEZZANINE / ROOF**  
 SCALE: 1/2" = 1'-0"



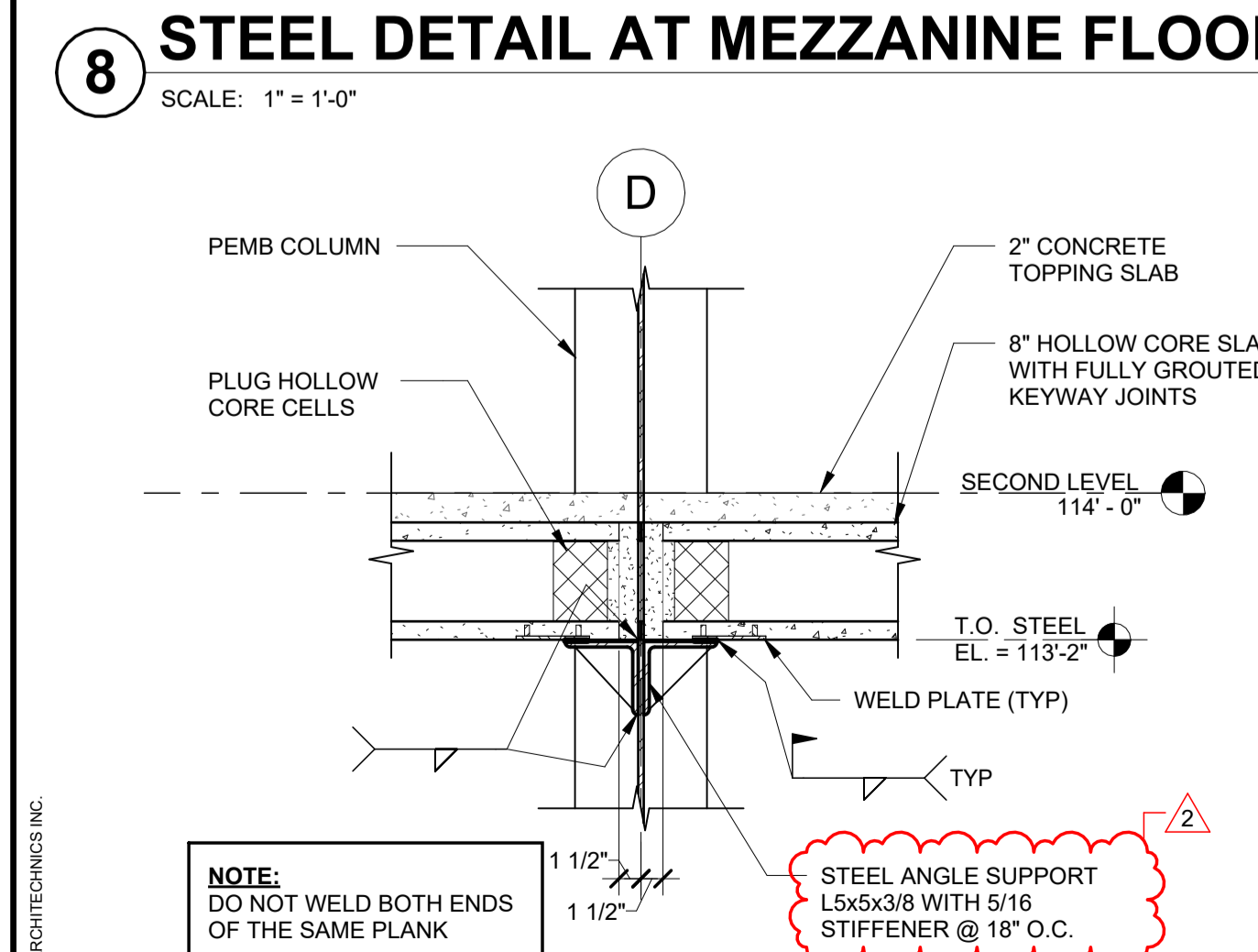
**8 STEEL DETAIL AT MEZZANINE FLOOR**  
 SCALE: 1" = 1'-0"



**9 STEEL DETAIL AT MEZZANINE FLOOR**  
 SCALE: 1" = 1'-0"



**10 TYPICAL PRECAST BEARING DETAIL**  
 SCALE: 1" = 1'-0"



**12 STEEL DETAIL AT MEZZANINE FLOOR**  
 SCALE: 1" = 1'-0"

NOTE: DO NOT WELD BOTH ENDS OF THE SAME PLANK

NOTE: STEEL ANGLE SUPPORT L5x5x3/8 WITH 5/16" STIFFENER @ 18" O.C.

NO.	Date	Description
2	4/22/24	ADDENDUM #2