

**ADDENDUM NO. 05 – PORTAGE PUBLIC SCHOOLS – CENTRAL ELEMENTARY SCHOOL BP 4:
CONSTRUCTION**

June 27th, 2023

The following items are changes, clarifications, corrections of errors, etc., with respect to the Contract Documents previously issued. This addendum shall be a part of the Contract Documents.

Items listed below may or may not affect the cost of the Contractor's Proposal. Changes in cost shall be incorporated in the Contractor's Proposal.

ITEM No.1

- **BC 09 -Masonry, BC 32 – Educational Casegoods, and BC 45 - Fire Alarm: BID DEADLINE/OPENING POSTPONED**

Sealed bids, in triplicate, for the Central Elementary School Bid Package 4, BC 09 – Masonry, BC 32 – Educational Casegoods, and BC 45 – Fire Alarm for Portage Public Schools, will be received until 9:00am local time, Monday, July 10th, 2023 at Owen-Ames-Kimball Co., 2700 Stadium Dr. Suite 2, Kalamazoo, MI 49008. Bids received after this time will neither be considered nor accepted.

All proposals received by the time and date stated above will be opened and read publicly at 11:00 am local time, Monday, July 10th, 2023 at Portage Central High School, Community Room 8135 S. Westnedge Ave, Portage, MI 49002.

Bids may be mailed to Owen-Ames-Kimball Co., 2700 Stadium Dr. Suite 2, Kalamazoo, MI 49008. Mailed bids must be received by 9:00am, Monday, July 10th, 2023. FAXED, EMAILED OR UPLOADED TO BUILDING CONNECTED BIDS WILL **NOT** BE ACCEPTED.

Bids may be brought directly to the bid opening at 11:00am and handed to an O-A-K employee only.

ITEM No. 2

DRAWING AND SPECIFICATION CHANGES AS NOTED BY TOWER PINKSTER - ATTACHED

- See Tower Pinkster write up
- Drawings: S501, S600, S601, S605, A321, A322, A323, A325

ITEM No. 3

- All Pre-Bid RFI's are to be emailed to anastasiaw@oakmi.com by Monday, July 3rd at noon. Please do not submit RFI's through building connected.

ADDENDUM NO. 5 (BP4)

DATE OF ISSUANCE:	June 26, 2023
PROJECT:	Central Elementary School Bid Package 4: Construction 8422 South Westnedge Avenue Portage, MI 49002
OWNER:	Portage Public Schools
ARCHITECT'S PROJECT NO.:	21-237.10
ORIGINAL BID ISSUE DATE:	May 17, 2023

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes **two [2]** pages of text and the following documents:

- Bidding Documents: **None.**
- Contract Conditions: **None.**
- Specification Sections: **None.**
- Drawings: **S501, S600, S601, S605, A321, A322, A323, A325**

CHANGES TO PREVIOUSLY ISSUED ADDENDA

None.

CHANGES TO BIDDING REQUIREMENTS

None.

CHANGES TO CONTRACT CONDITIONS

None.

CHANGES TO SPECIFICATIONS

None.

CHANGES TO DRAWINGS

ADD-5 Item No. D-1 - Bottom Bearing Plate Connection

Refer to Sheet(s): S501

Revision to connection from top plate bolted connection to bottom plate seat connection. Refer to detail 8/S501.

ADD-5 Item No. D-2 - CMU Horizontal Reinforcement Requirements

Refer to Sheet(s): S600

Note clarified to fully grout cores with reinforcements only. Detail note revised to clarify conditions of ladder reinforcement as typical. Note 10 issued in ADD-3 omitted for clarity of typical horizontal reinforcement. Refer to Detail 3/S600.

ADD-5 Item No. D-3 - Masonry Lintel Shear Reinforcement Requirements

Refer to Sheet(s): S600

Shear stirrups eliminated from lintels $\leq 8'-0"$ per constructability comments.

ADD-5 Item No. D-4 - Wall Pier Tie Reinforcement Requirements

Refer to Sheet(s): S600

Reinforcing ties within pier elements eliminated per constructability comments.

ADD-5 Item No. D-5 - Typical Plan Detail for Horizontal Reinforcement

Refer to Sheet(s): S600

Revision to bond beam intersection detail.

ADD-5 Item No. D-6 - Interior CMU Wall at Roof

Refer to Sheet(s): S601

Revised the top steel plate connecting the deck to CMU wall at roof level. Reduced the thickness and width of the top plate.

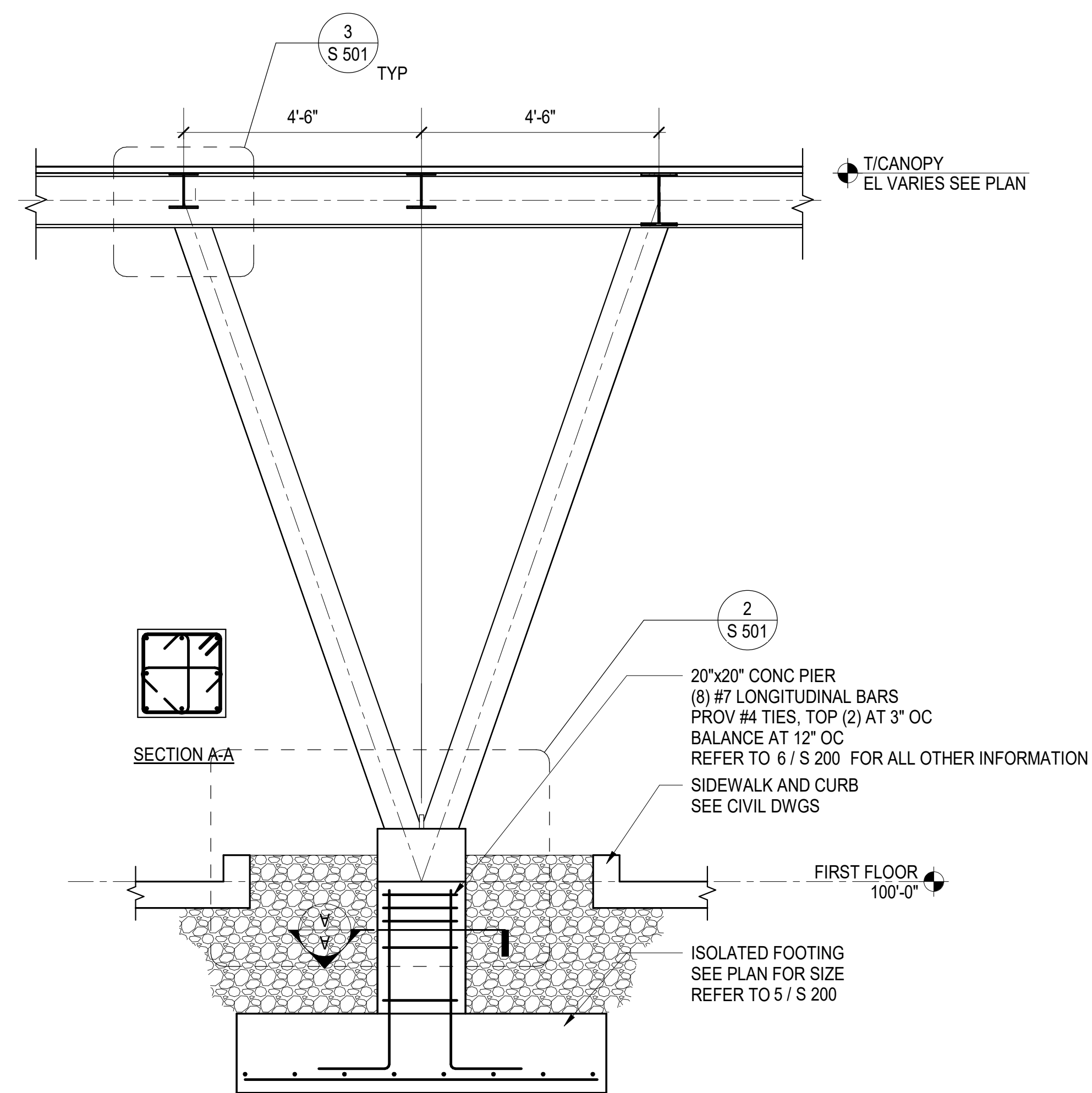
ADD-5 Item No. D-7 - Thermal Brackets at Veneer Bearing

Refer to Sheet(s): S605, A321, A322, A323, A325

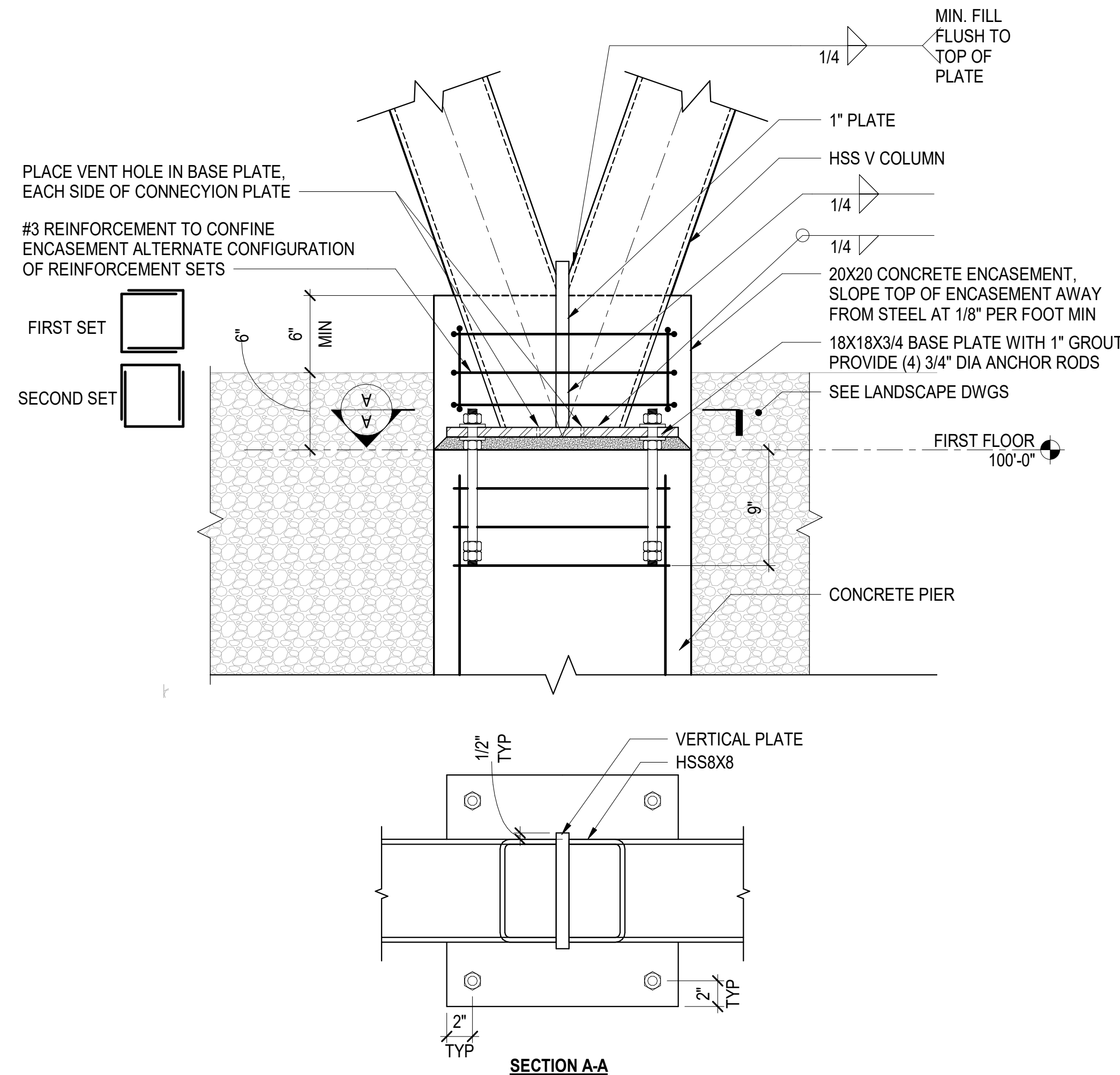
Fero Fast thermal bracket detail updated. Thickness of continuous shelf angle is revised.

Revised wall sections to remove shelf angle and bracket in alignment with 2nd floor openings. Revised shelf angle and bracket note, added typical note to 1/A321, provide membrane flashing, cavity drainage mesh, weeps and vents at shelf angle (12'-0" h locations).

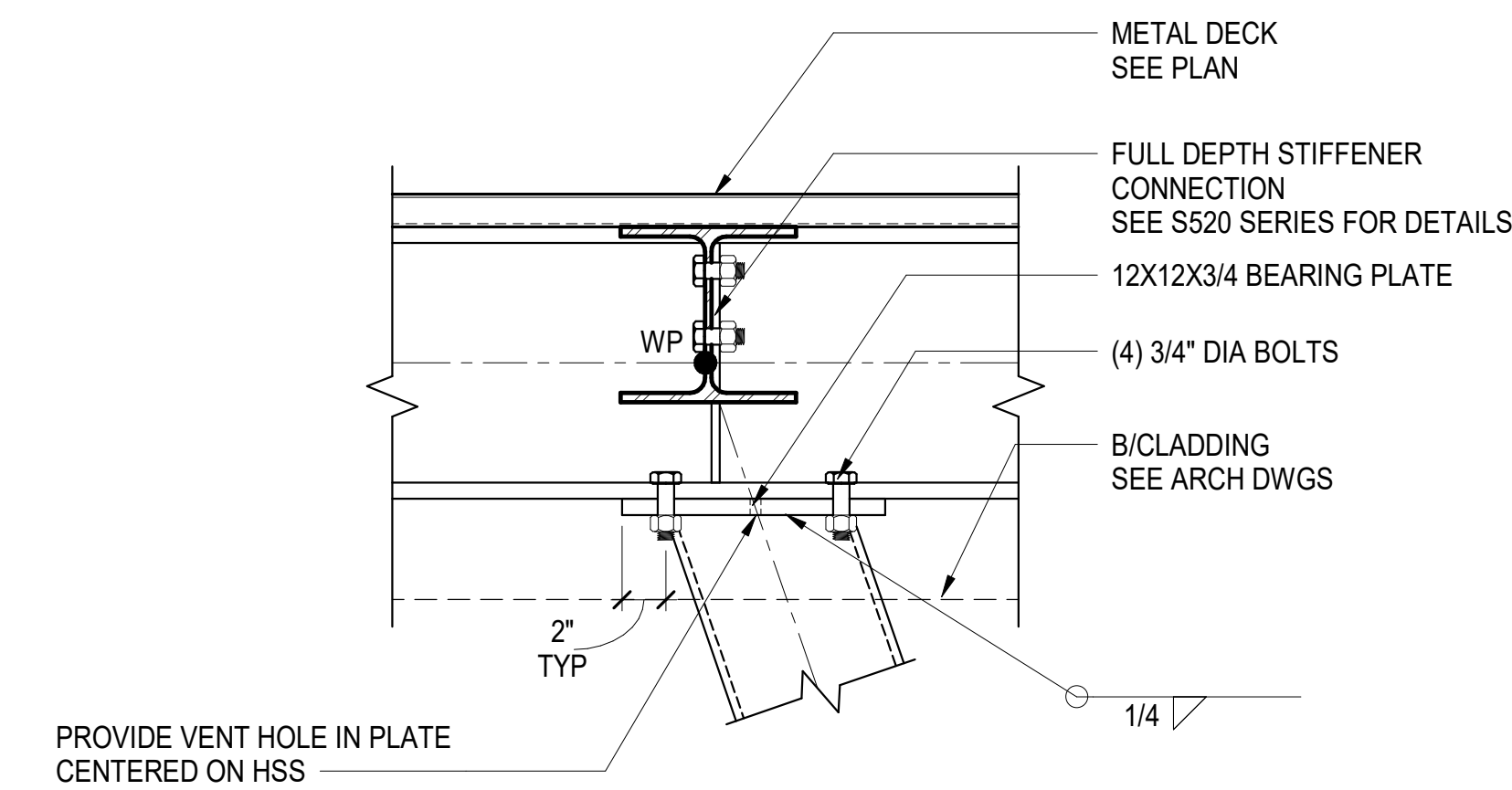
END OF ADDENDUM.



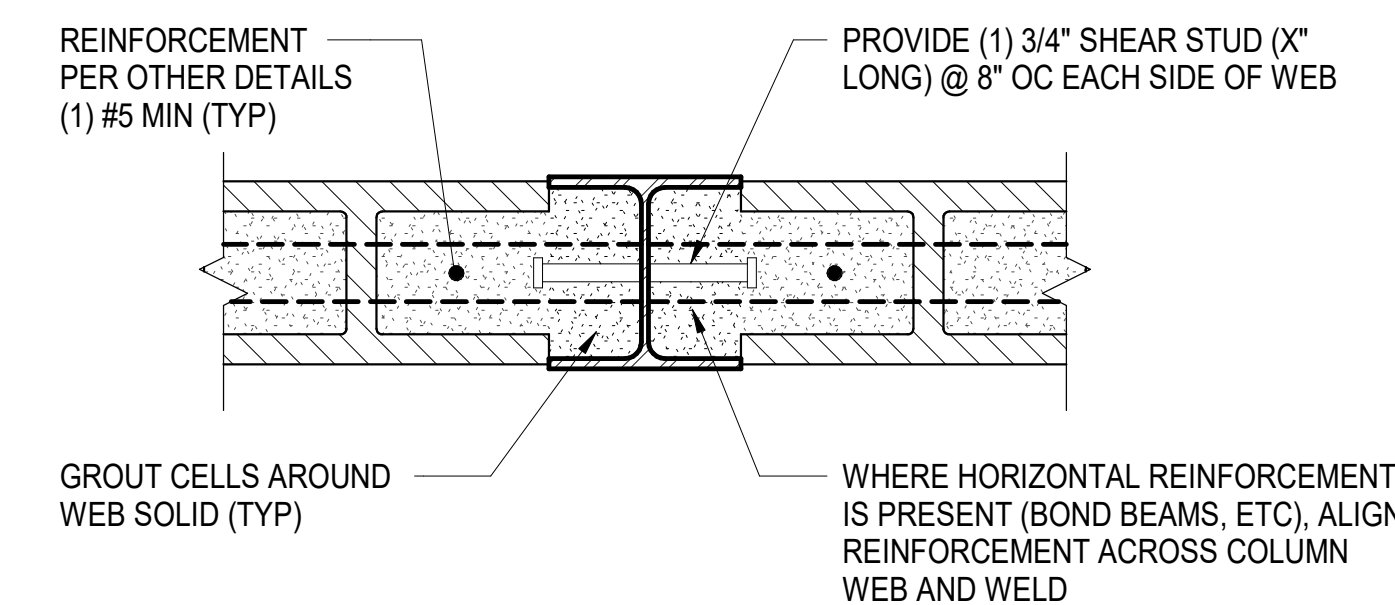
1 V-COLUMN AT CANOPY
 1/2" = 1'-0"



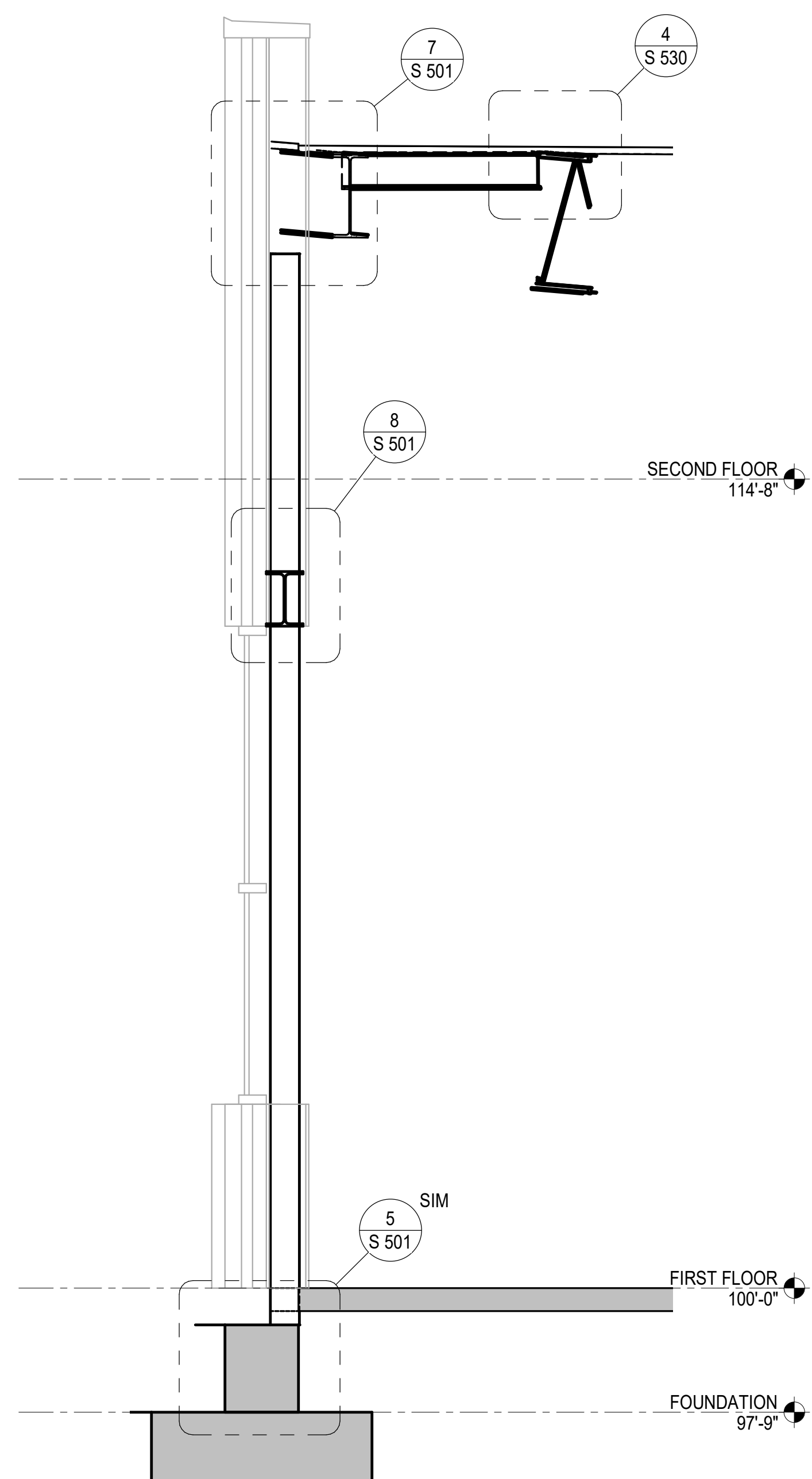
2 DETAIL AT V COLUMN BASE
 1 1/2" = 1'-0"



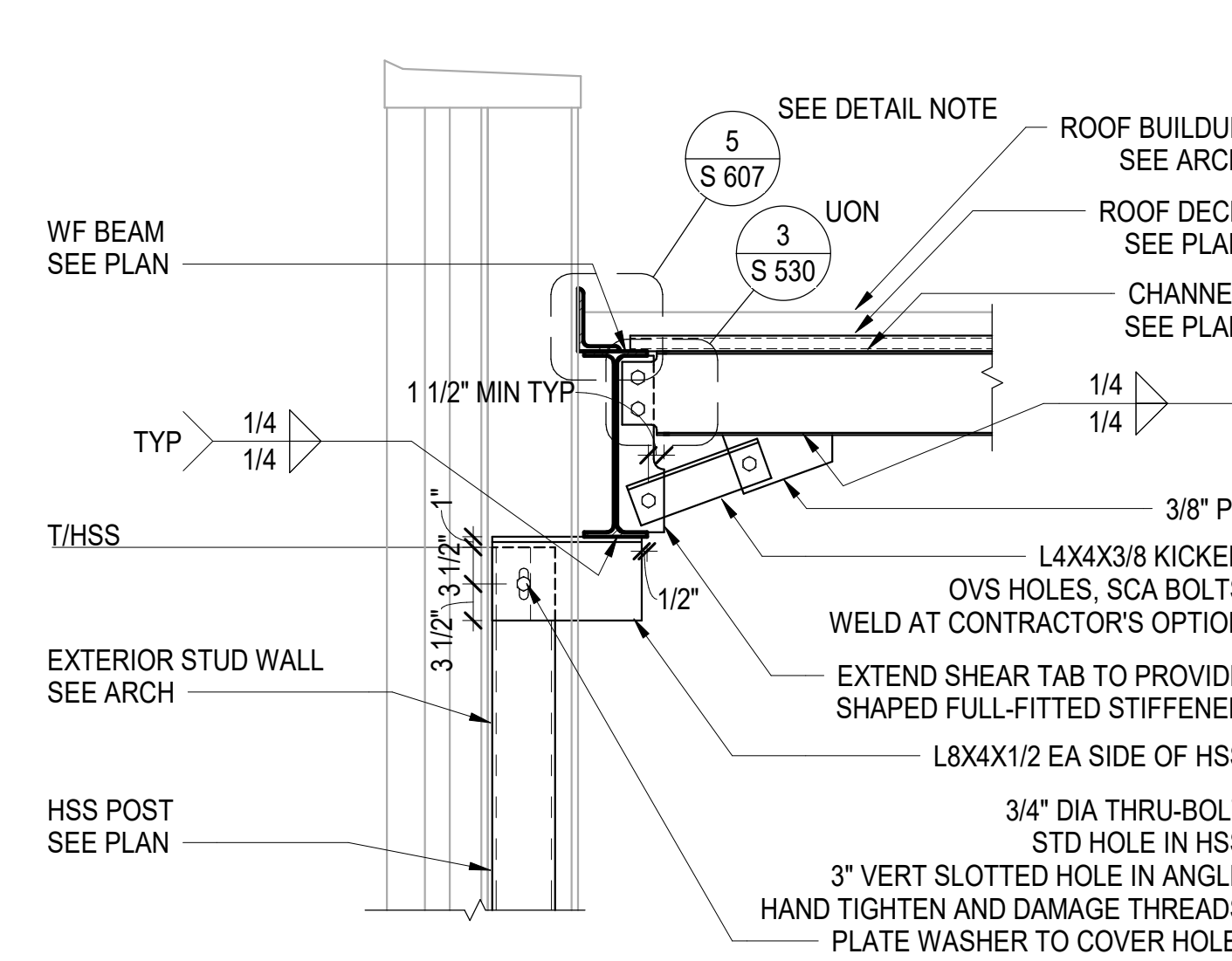
3 DETAIL AT TOP OF V COLUMN
 1 1/2" = 1'-0"



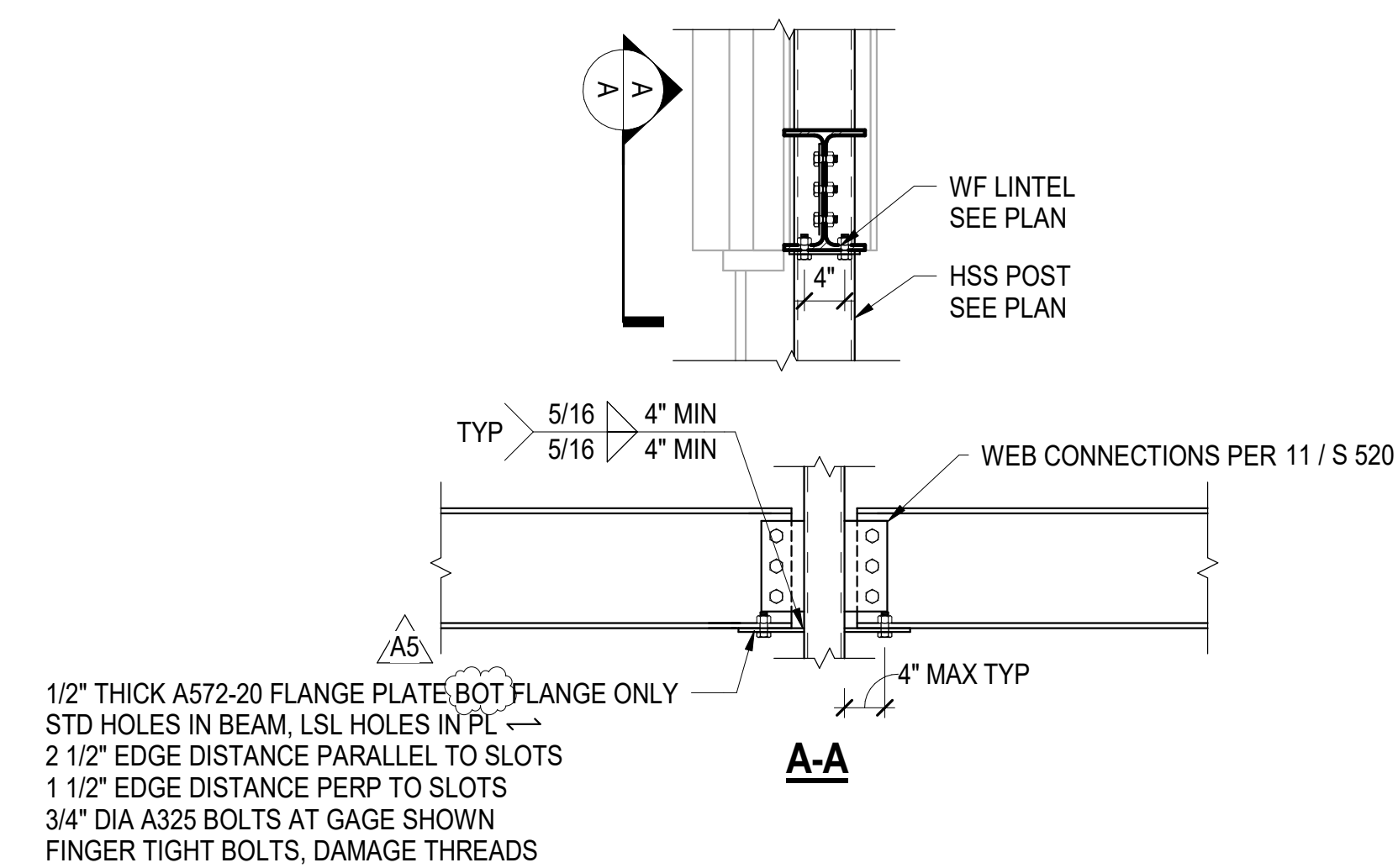
4 REINFORCING COLUMN EMBEDDED IN CMU WALL
 1 1/2" = 1'-0"



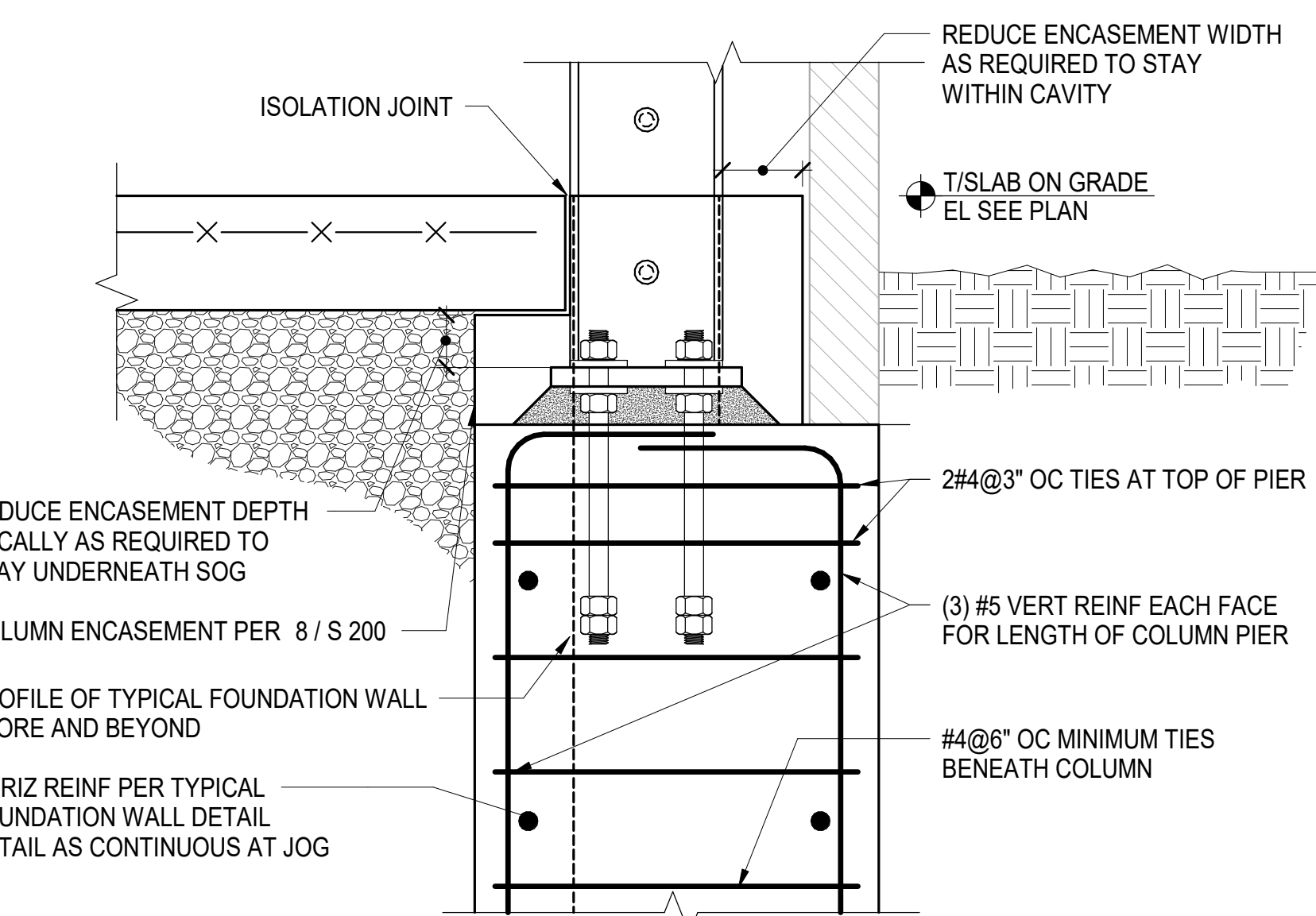
6 SECTION AT HSS COLUMN AT KINKED WINDOW
 1/2" = 1'-0"



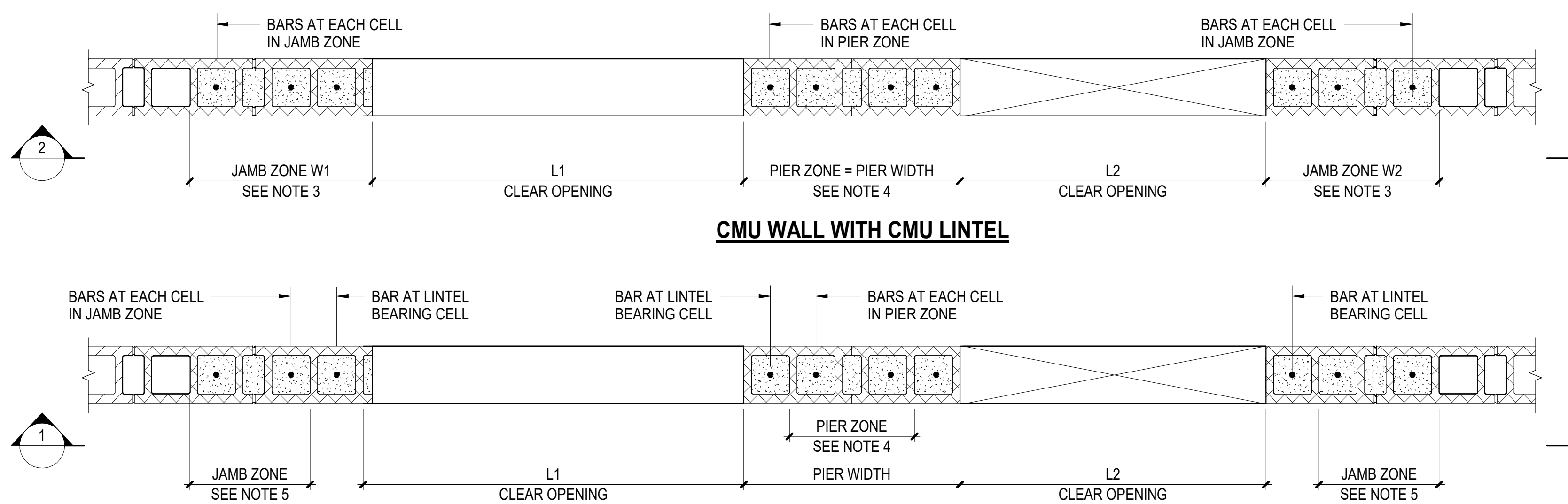
7 DETAIL AT HSS POST LATERAL BRACING
 3/4" = 1'-0"



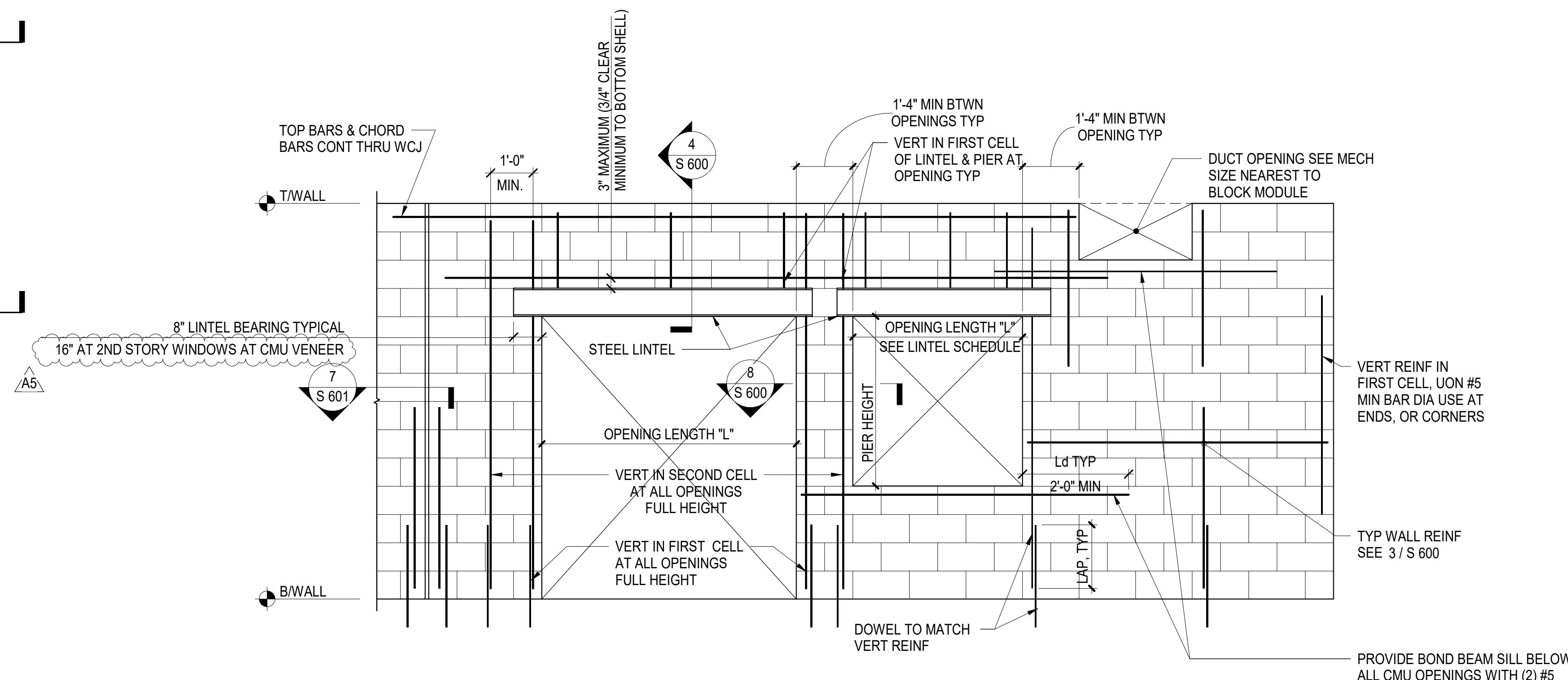
8 FLANGE PLATES AT LINTELS AT KINKED WINDOW
 3/4" = 1'-0"



5 BASE OF EMBEDDED REINFORCING COLUMN
 1 1/2" = 1'-0"

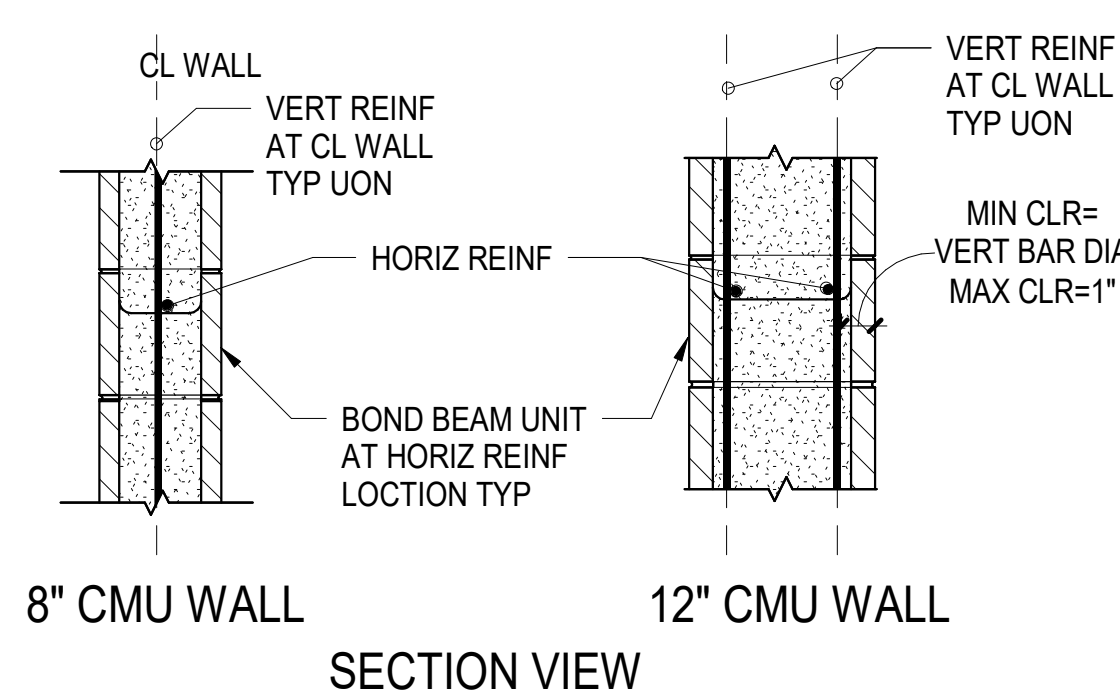


- NOTES:**
- SEE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF MASONRY WALL OPENINGS
 - SUM OF OPENING WIDTHS L1 PLUS L2 ON EITHER SIDE OF PIER SHALL NOT EXCEED 24'-0" AND ANY INDIVIDUAL OPENING SHALL NOT EXCEED 12'-0" IN WIDTH. FOR CONDITIONS EXCEEDING THIS CRITERIA, ENGINEER OF RECORD SHALL BE NOTIFIED PRIOR TO CONSTRUCTION
 - JAMB ZONE REFERS TO WIDTH OF JAMB ZONE BASED ON ADJACENT CLEAR OPENING L1 AND L2, RESPECTIVELY AS PER TYPICAL CMU NON-BEARING WALL JAMB AND PIER ZONE SCHEDULE
 - PIER ZONE REFERS TO MINIMUM WIDTH OF PIER AS SCHEDULED ON TYPICAL CMU NON-BEARING WALL JAMB AND PIER ZONE SCHEDULE
 - PROVIDE P1 TYPE REINFORCEMENT EITHER SIDE OF THE OPENING AS FOLLOWS:
 - UPTO 7'-0" WIDE OPENING - 16" WIDE PIER
 - UPTO 12'-0" WIDE OPENING - 24" WIDE PIER



ADD. No. 5 JUN 26, 2023
 ADD. No. 3 JUN 19, 2023
 ISSUED FOR DATE

1 TYPICAL CMU NON-BEARING WALL PLAN DETAIL AT ADJACENT WALL OPENINGS
 1" = 1'-0"

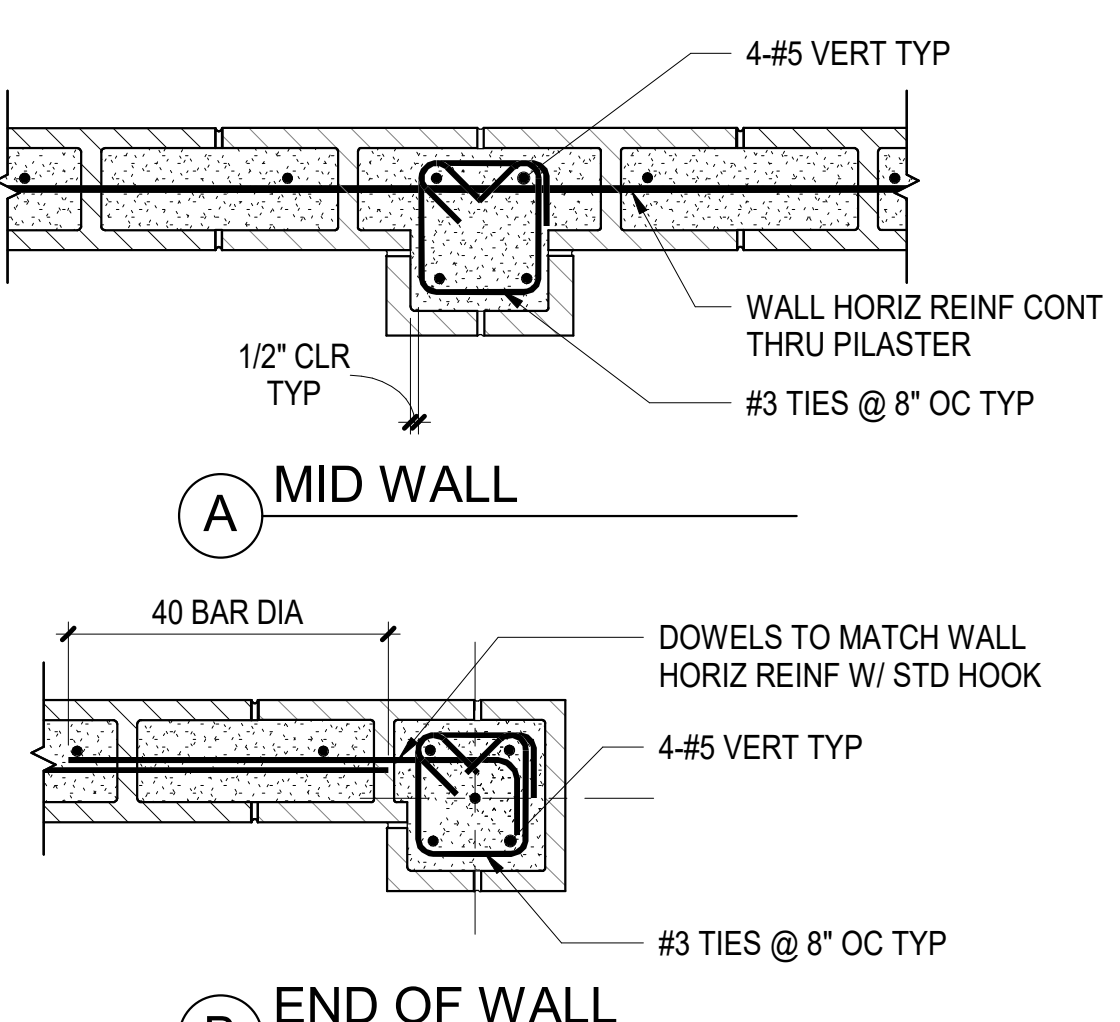


REINFORCING SCHEDULE FOR CONCRETE MASONRY WALL

WALL TYPE	NOMINAL THICKNESS	VERTICAL REINF	HORIZONTAL REINF	No. OF REINF CURTAIN
DCMU/CMU-1	8"	#4 @ 32" OC	SEE NOTE 9-10	SINGLE
CMU-2	8"	#4 @ 48" OC	SEE NOTE 9-10	SINGLE
CMU-3	12"	#4 @ 48" OC	SEE NOTE 9-10	DOUBLE
CMU-4	8"/12"	#4 @ 72" OC	SEE NOTE 9-10	SINGLE

- NOTES:**
- SEE PLANS FOR WALL TYPE LOCATIONS.
 - LAP SPLICE REINFORCING PER 5 / S 600
 - CMU SHALL BE RUNNING BOND & GROUTED IN CELLS W/ REINFORCEMENTS
 - USE DOUBLE OPEN END BLOCKS TO THE EXTENT PRACTICAL TYP DO NOT PLACE CLOSED SIDES BACK TO BACK. CONTRACTOR OPTION TO PROPOSE ALTERNATE DETAIL WITHOUT USE OF OPEN END BLOCK
 - SEE STRUCTURAL GENERAL NOTES FOR MATERIAL SPECIFICATIONS
 - FOR WALL CONSTRUCTION & CONTROL JOINT SEE DETAIL 7 / S 601
 - FOR WALL CORNERS & INTERSECTIONS SEE DETAIL 9 / S 600
 - DCMU DENOTES DECORATIVE CONCRETE MASONRY UNIT.
 - PROVIDE LADDER TYPE HORIZONTAL REINFORCING 2 x W2.1 (3 GAGE) FOR WALLS AT 16" OC AT WALLS BETWEEN CONTROL JOINTS.

3 CMU WALL REINFORCING SCHEDULE
 1" = 1'-0"

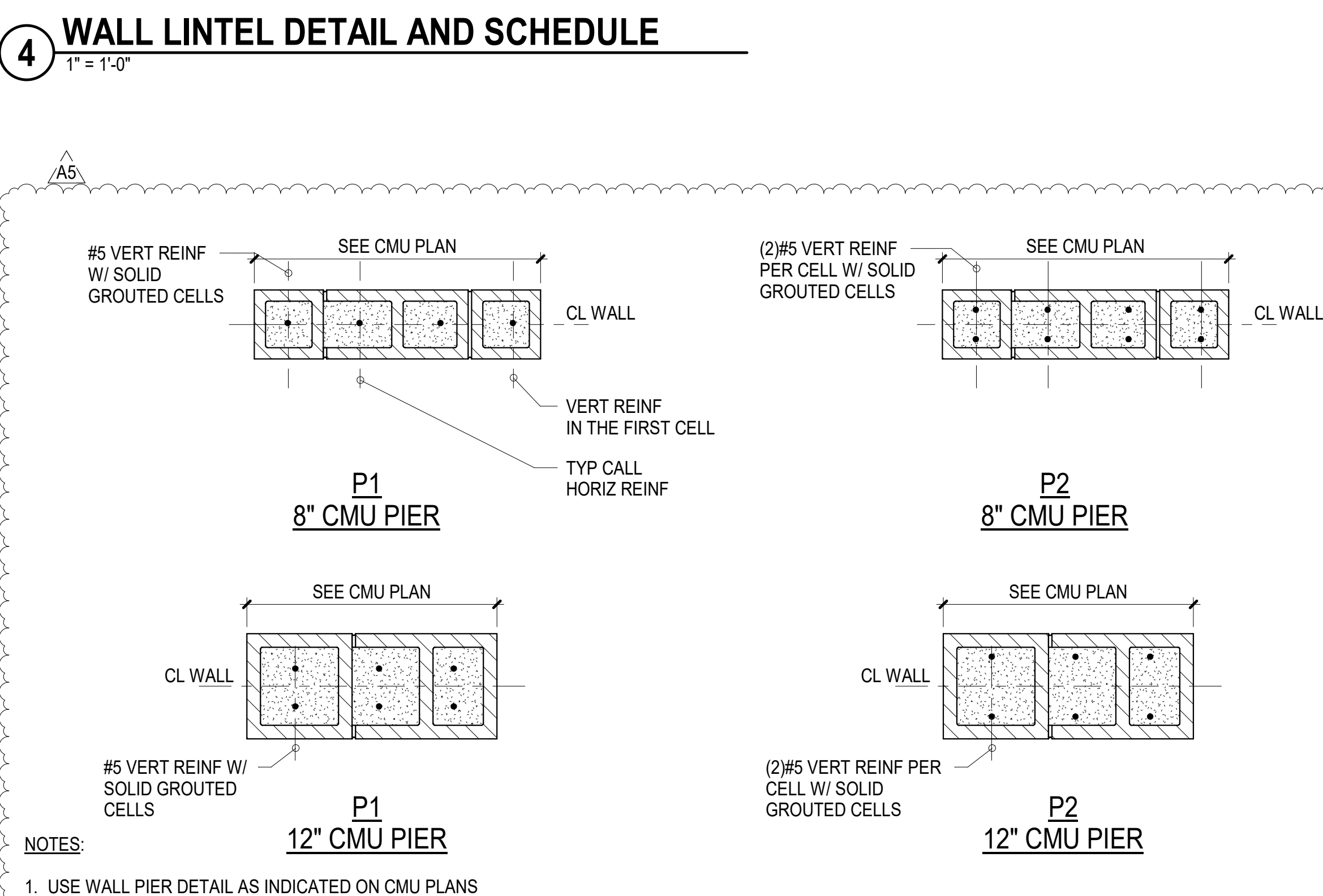


7 PILASTER DETAIL
 1" = 1'-0"

4 WALL LINTEL DETAIL AND SCHEDULE
 1" = 1'-0"

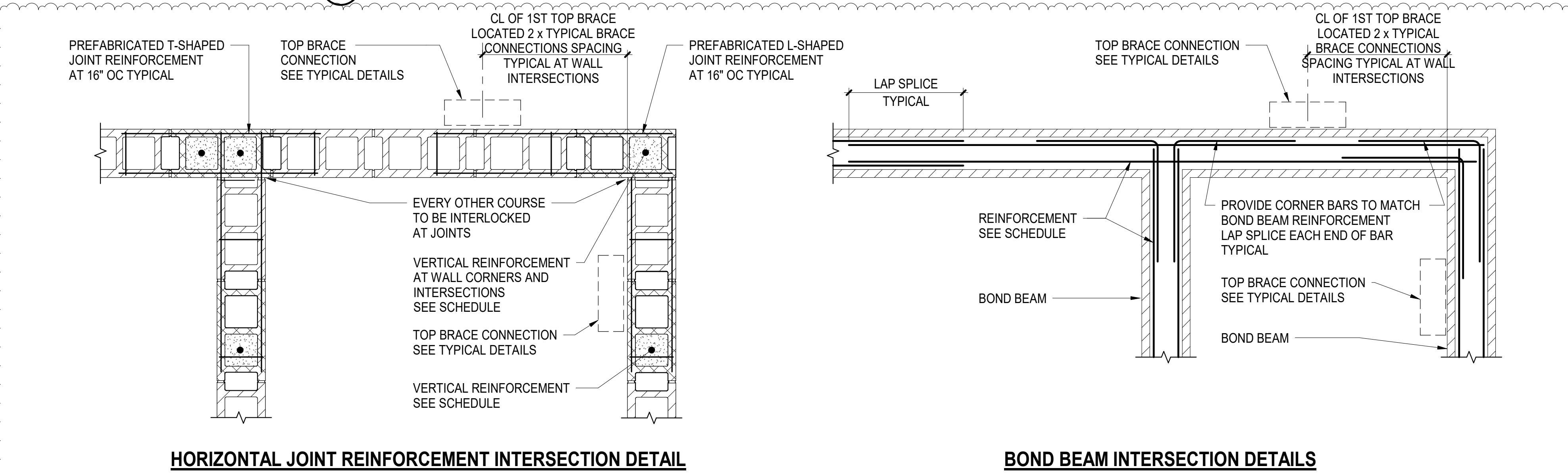
REINFORCING SCHEDULE FOR LINTEL CMU WALL

OPENING LENGTH	MIN LINTEL DEPTH	8" WALL		12" WALL		MIN. JAMB ZONE OR PIER WIDTH
		HORIZ	VERT	HORIZ	VERT	
ML-1	L ≤ 4'-0"	2'-0"	1-#5	2-#5	-	16"
ML-2	L ≤ 6'-0"	2'-8"	1-#5	2-#6	-	16"



- NOTES:**
- USE WALL PIER DETAIL AS INDICATED ON CMU PLANS
 - EXTEND HORIZONTAL TIES LAP SPLICE LENGTH ABOVE & BELOW OPENING

2 CMU WALL ELEVATION W/ OPENING
 1/2" = 1'-0"

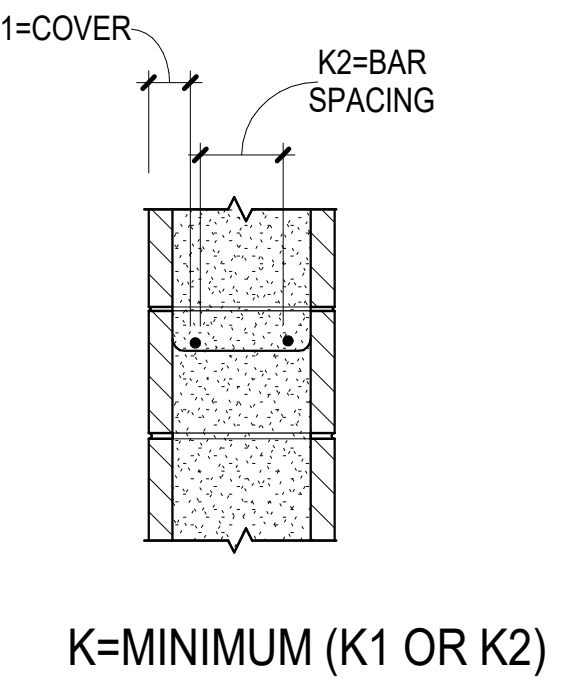


9 TYPICAL PLAN DETAIL AT MASONRY WALL WITH INTERLOCKED INTERSECTIONS
 1" = 1'-0"

- NOTES:**
- "K" SHALL BE TAKEN AS THE CMU COVER DIMENSION OR THE CLEAR SPACING BETWEEN ADJACENT BARS, WHICHEVER IS LESS. SEE ABOVE.
 - WHERE EPOXY-COATED REINFORCING IS USED, INCREASE LAP SPLICE LENGTH BY 50%.
 - SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
 - SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.
 - "N/A" MEANS "NOT ALLOWABLE" INCREASE "K" FOR ALLOWABLE LAP SPLICE.

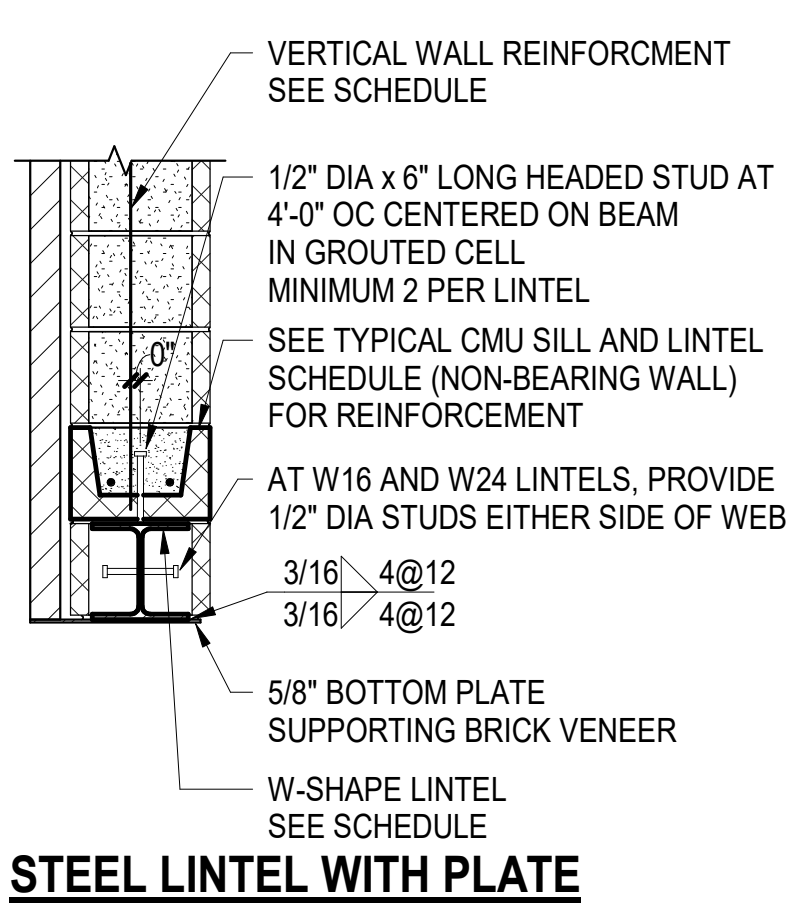
LAP SPLICE LENGTH (f' m=2000PSI)

BAR SIZE	FOR K ≥ 2db	FOR K ≥ 3db	FOR K ≥ 4db
#3	N/A	1'-10"	1'-5"
#4	3'-0"	2'-6"	1'-10"
#5	3'-9"	3'-1"	2'-4"
#6	4'-6"	4'-6"	3'-6"
#7	5'-3"	5'-3"	4'-2"
#8	6'-0"	6'-0"	5'-6"
#9	6'-10"	6'-10"	6'-2"



5 REBAR OFFSET AND LAP SPLICE CMU f' m=2000 PSI
 1" = 1'-0"

- NOTES:**
- LINTEL ANGLES AND W-SHAPE LINTELS SHALL BE ASTM A36 STEEL MINIMUM
 - NO MORE THAN SIX COURSES OF CMU MAY BE PLACED, REINFORCED, GROUTED AND CURED AT ONE TIME ABOVE LINTEL BEFORE PROCEEDING FURTHER
 - PROVIDE MINIMUM 8" BEARING EACH END
 - 2L LINTELS SHALL BE WELDED OR BOLTED TOGETHER AT INTERVALS NOT EXCEEDING 2'-0" OC, WITH A MINIMUM OF TWO CONNECTIONS BETWEEN ENDS
 - AT EXTERIOR WALL SYSTEMS AND AT HUMID LOCATIONS LINTELS SHALL BE GALVANIZED. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
 - SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS
 - SEE TYPICAL CMU NON-BEARING WALL ELEVATION WITH STEEL OR PRECAST LINTELS FOR DETAILS OF REINFORCEMENT AROUND OPENINGS



6 TYPICAL STEEL LINTEL SCHEDULE (NON-BEARING WALL)
 NOT TO SCALE

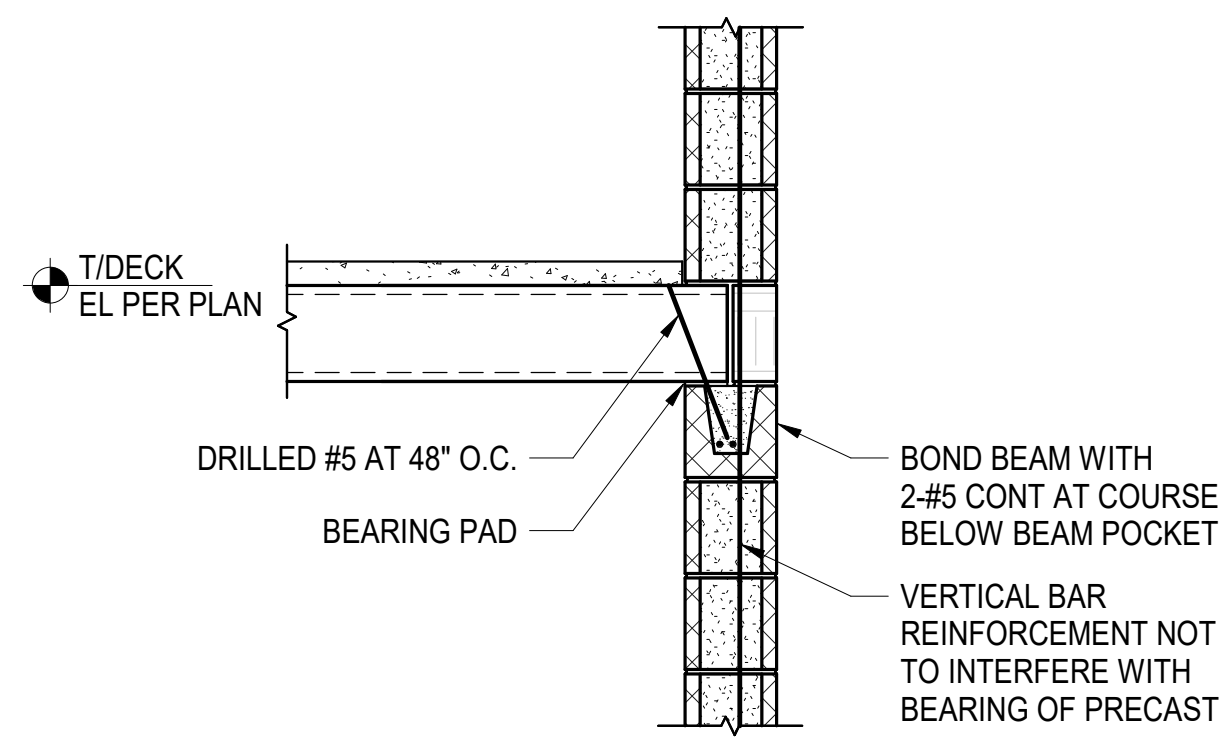
PROJECT TITLE
 CENTRAL ELEMENTARY SCHOOL BID
 PACKAGE 4: CONSTRUCTION
 ADDENDUM 5

OWNER
 PORTAGE PUBLIC SCHOOLS

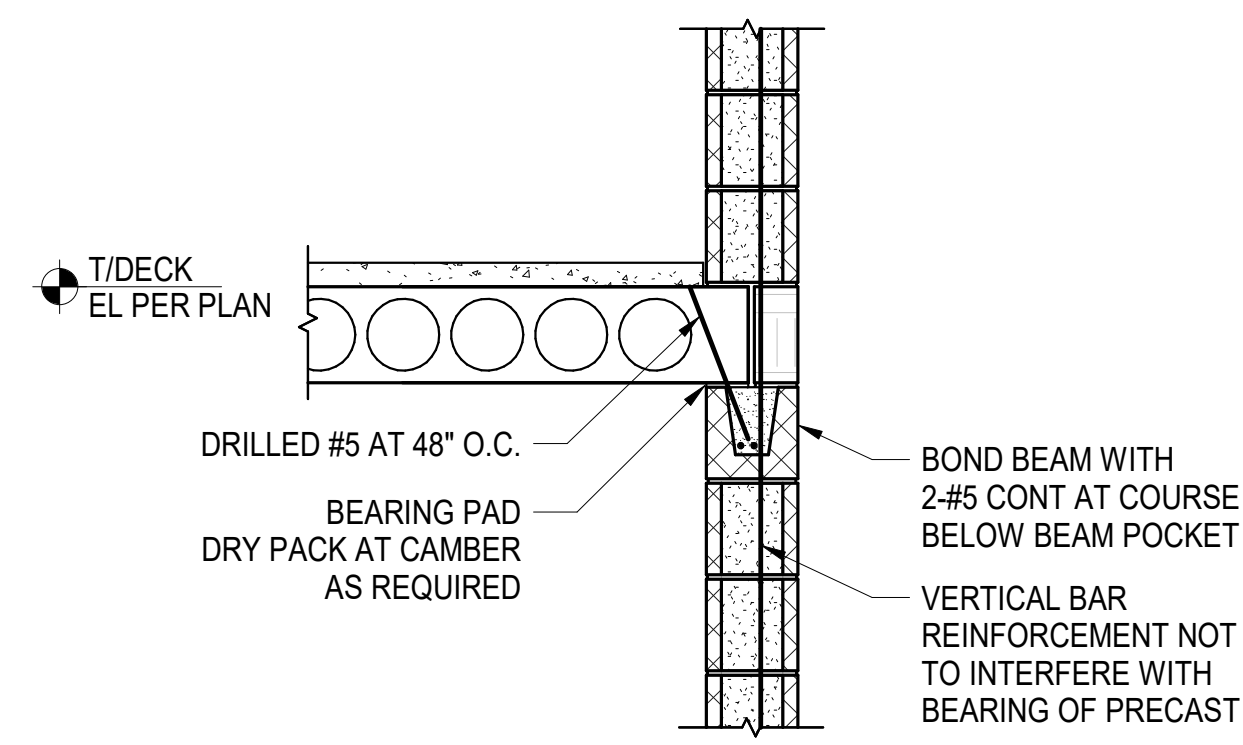
Portage, Michigan

SHEET TITLE
 TYPICAL MASONRY WALL DETAILS

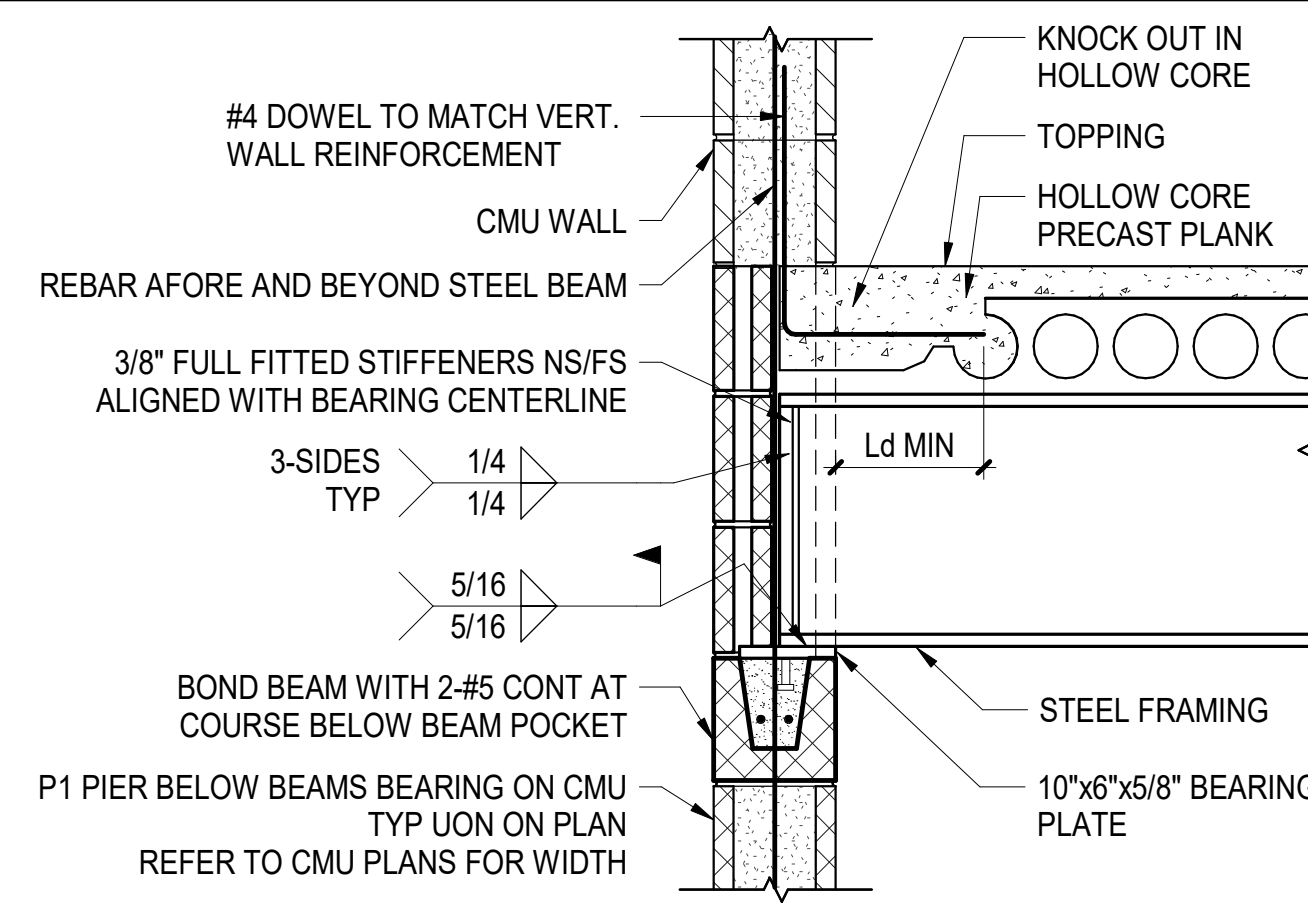
DATE
 MAY 17, 2023
 SHEET NUMBER
 S 600
 21-237.10



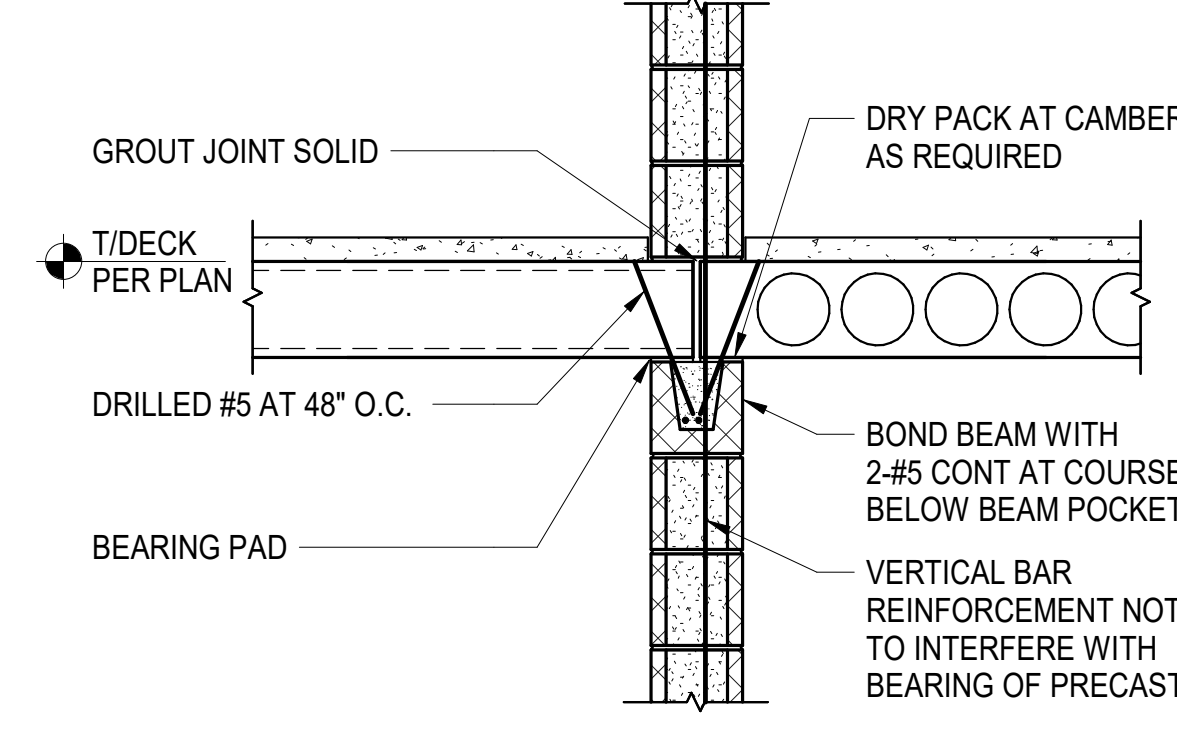
1 TYPICAL PLANK BEARING AT CMU DETAIL
 ONE SIDE, SPAN PERPENDICULAR
 3/4" = 1'-0"



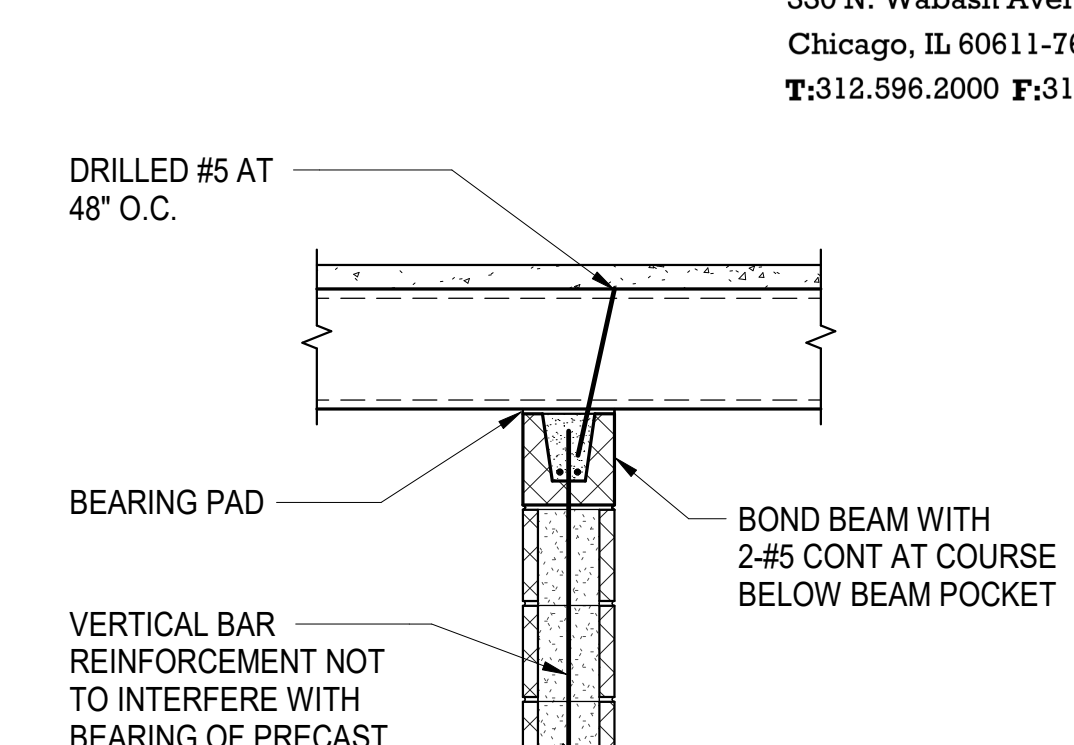
2 TYPICAL PLANK BEARING AT CMU DETAIL
 ONE SIDE, SPAN PARALLEL
 3/4" = 1'-0"



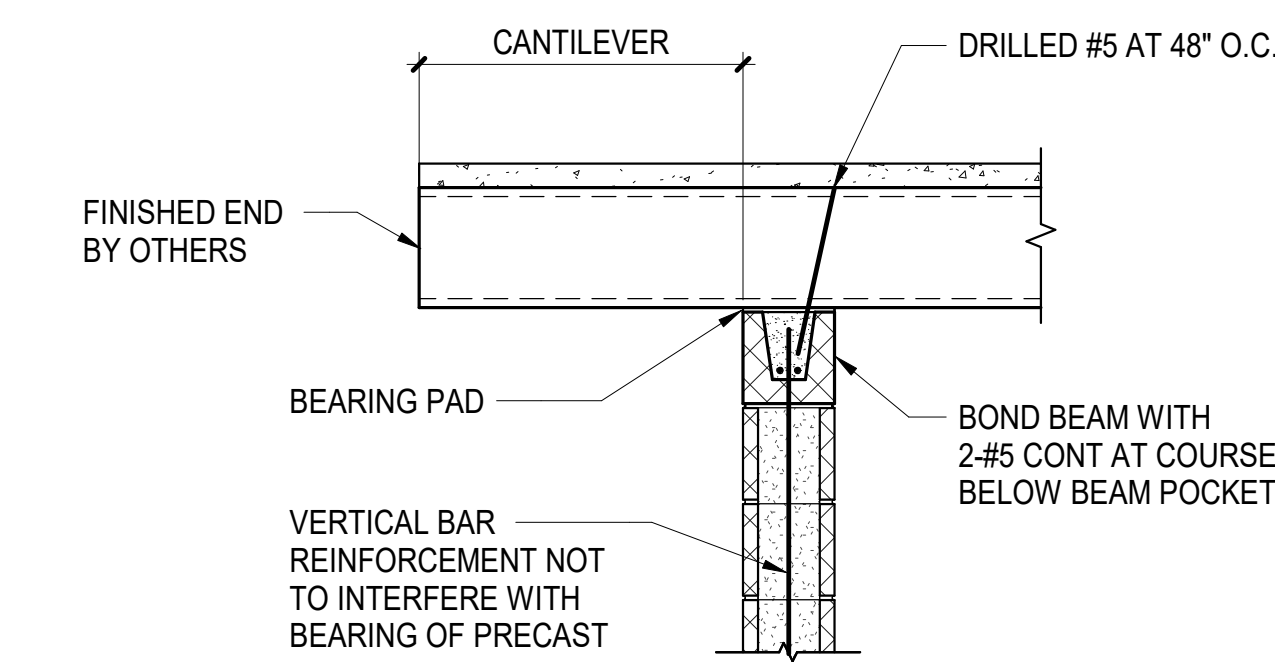
3 TYPICAL STEEL BEAM SUPPORTING PLANK
 BEARING AT CMU WALL, ONE SIDE
 1" = 1'-0"



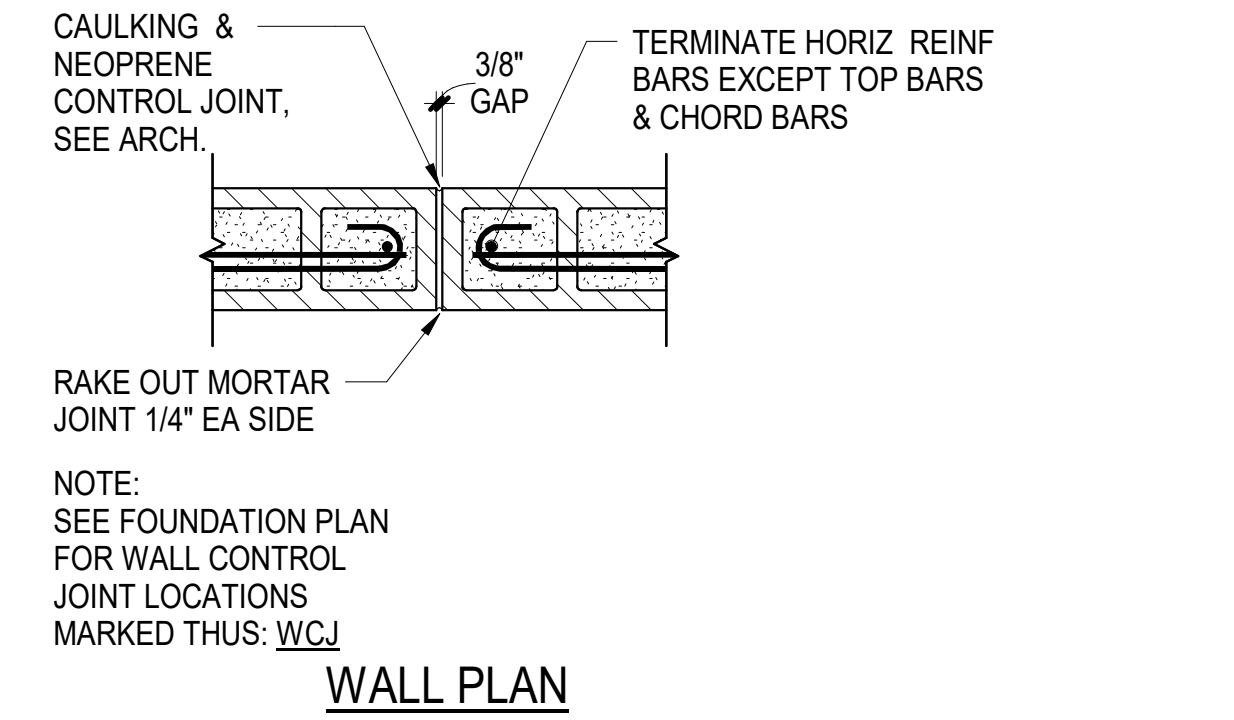
4 TYPICAL PLANK BEARING AT CMU DETAIL
 BOTH SIDES
 3/4" = 1'-0"



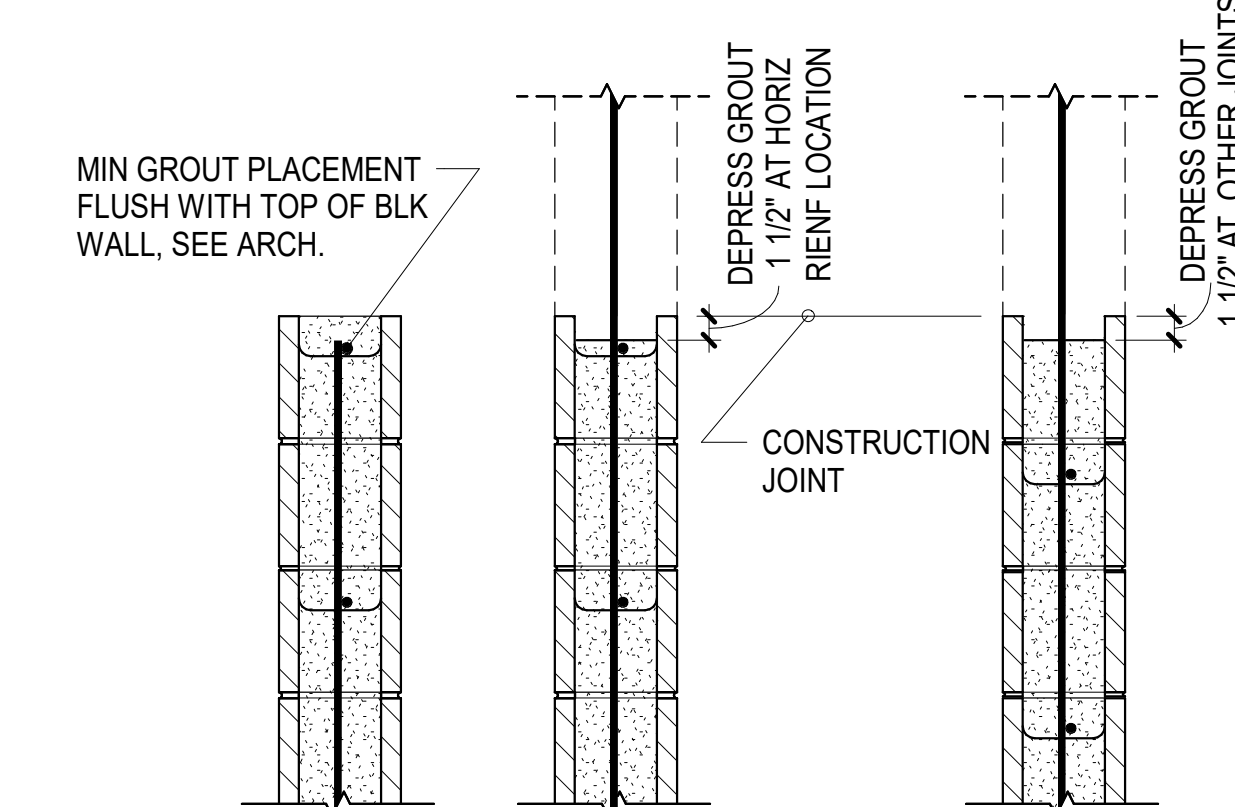
5 TYPICAL PLANK BEARING AT CMU DETAIL
 CONTINUOUS OVER WALL BELOW
 3/4" = 1'-0"



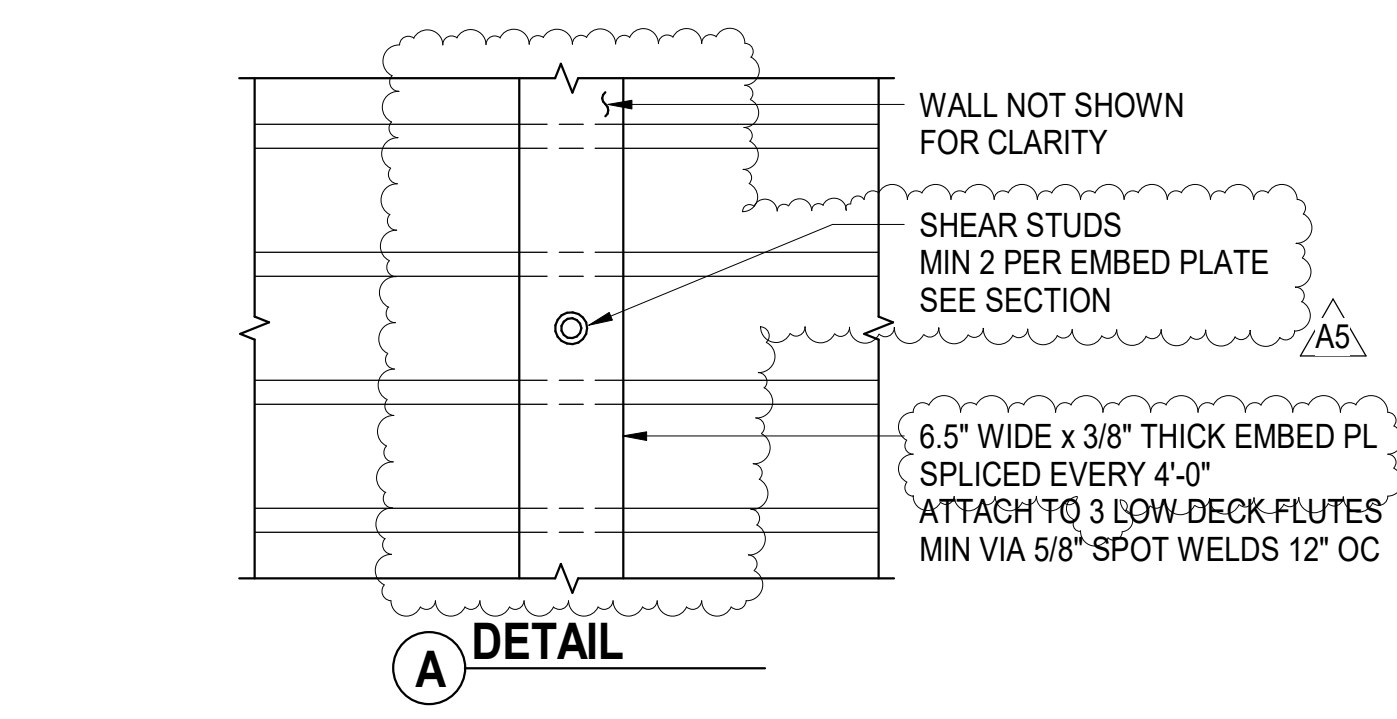
6 TYPICAL PLANK BEARING AT CMU DETAIL
 CANTILEVER CONDITION
 3/4" = 1'-0"



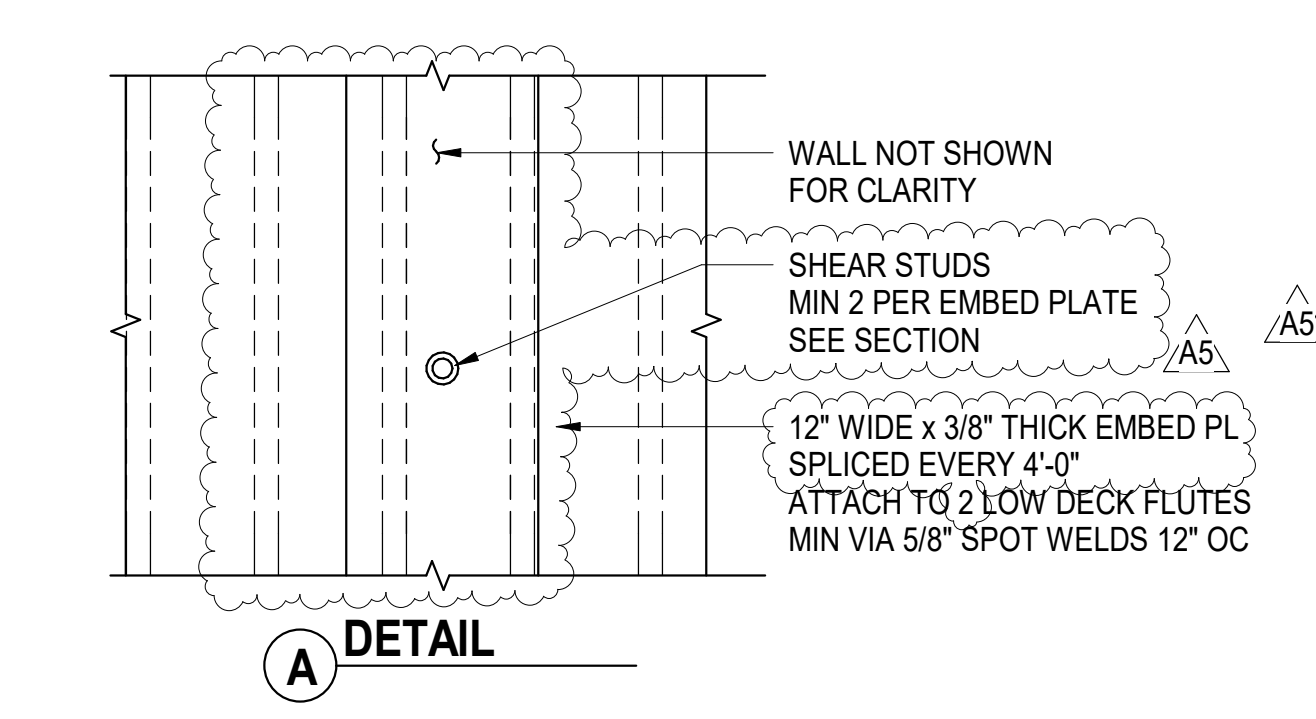
7 CMU WALL CONTROL JOINT
 1" = 1'-0"



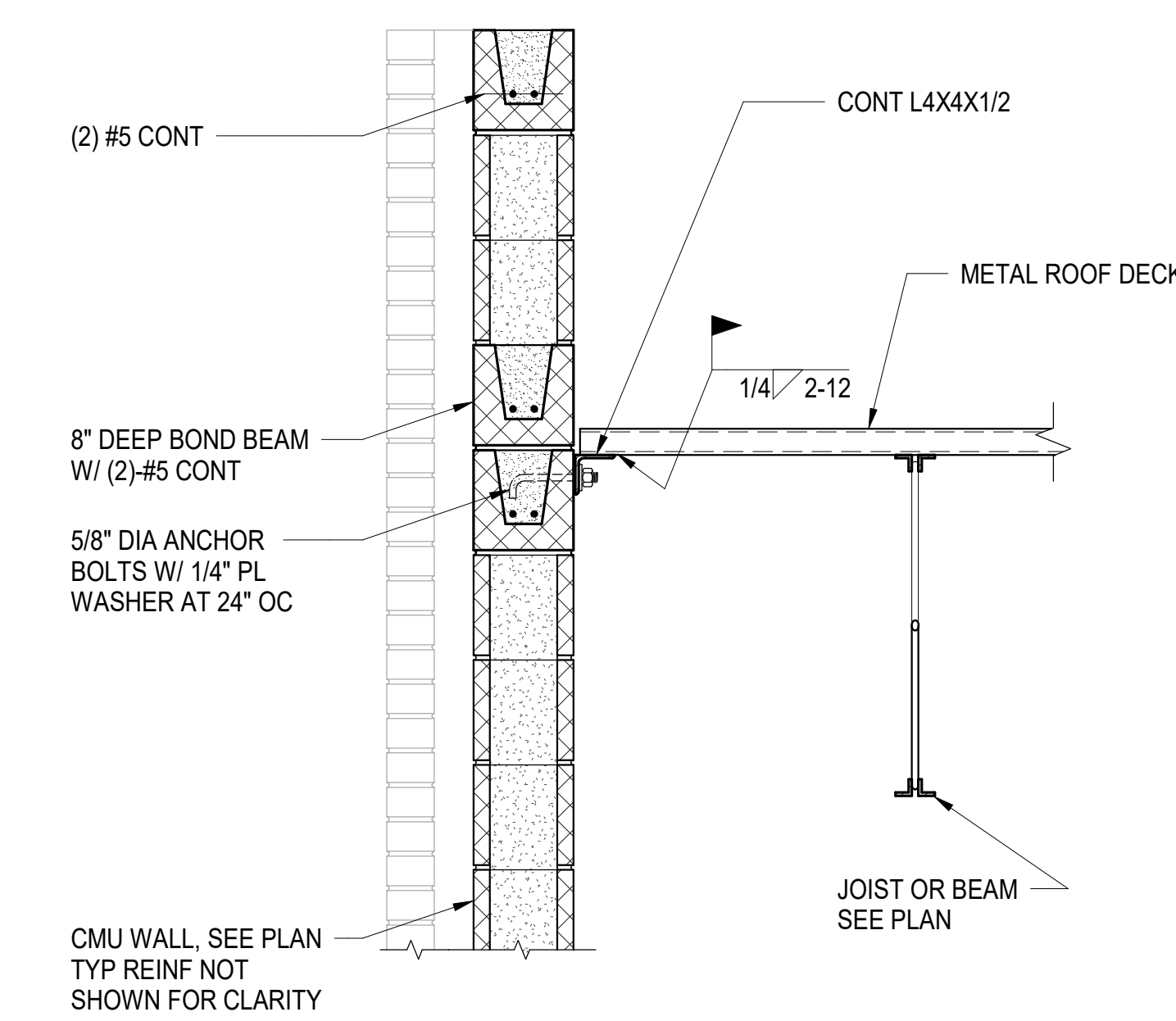
8 CMU WALL CONSTRUCTION JOINTS
 1" = 1'-0"



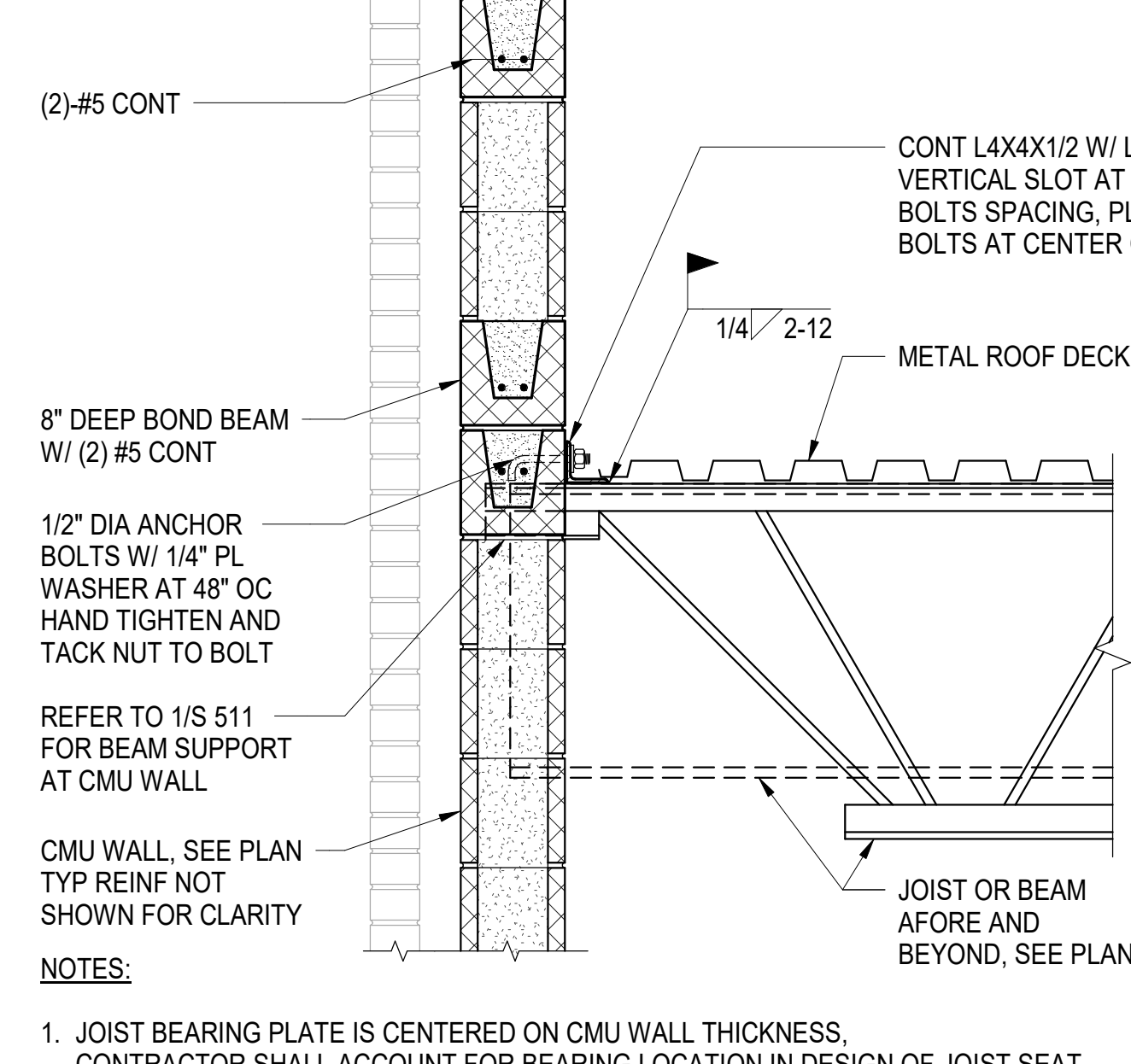
9 TYPICAL INTERIOR CMU WALL AT ROOF
 FLUTES PERPENDICULAR
 NOT TO SCALE



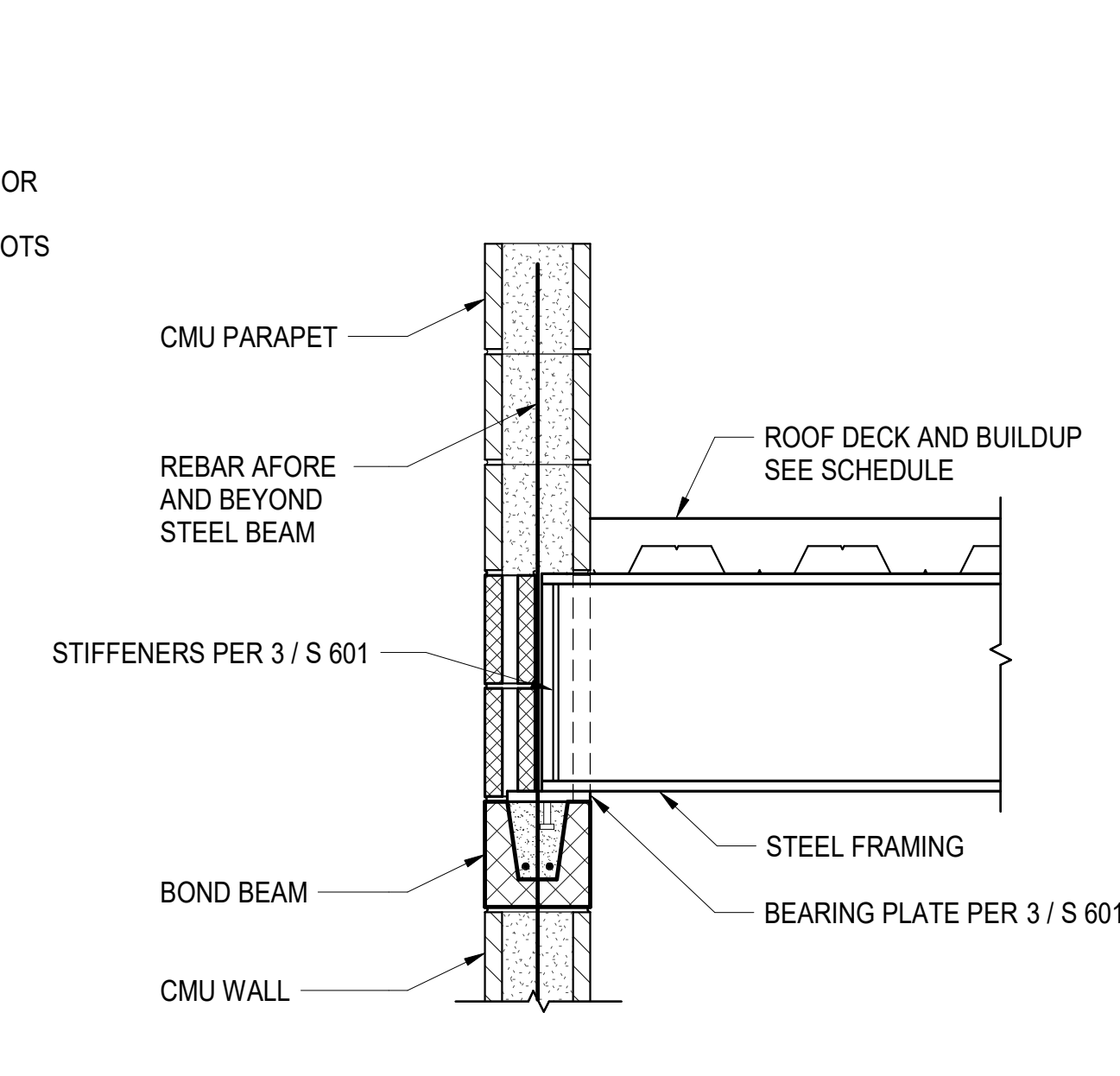
10 TYPICAL INTERIOR CMU WALL AT ROOF
 FLUTES PARALLEL
 NOT TO SCALE



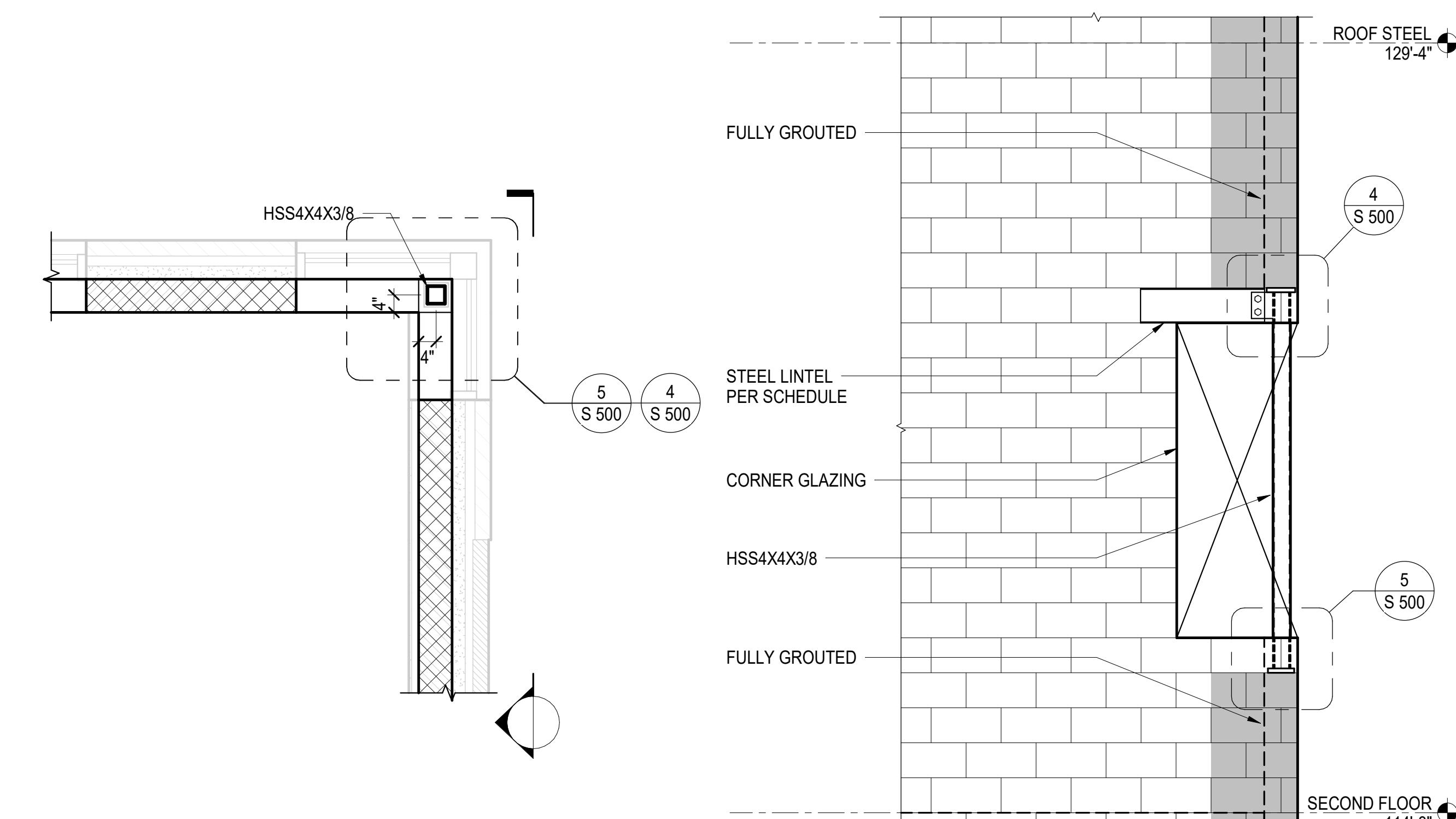
11 TYPICAL EXTERIOR CMU WALL AT ROOF
 FLUTES PERPENDICULAR
 NOT TO SCALE



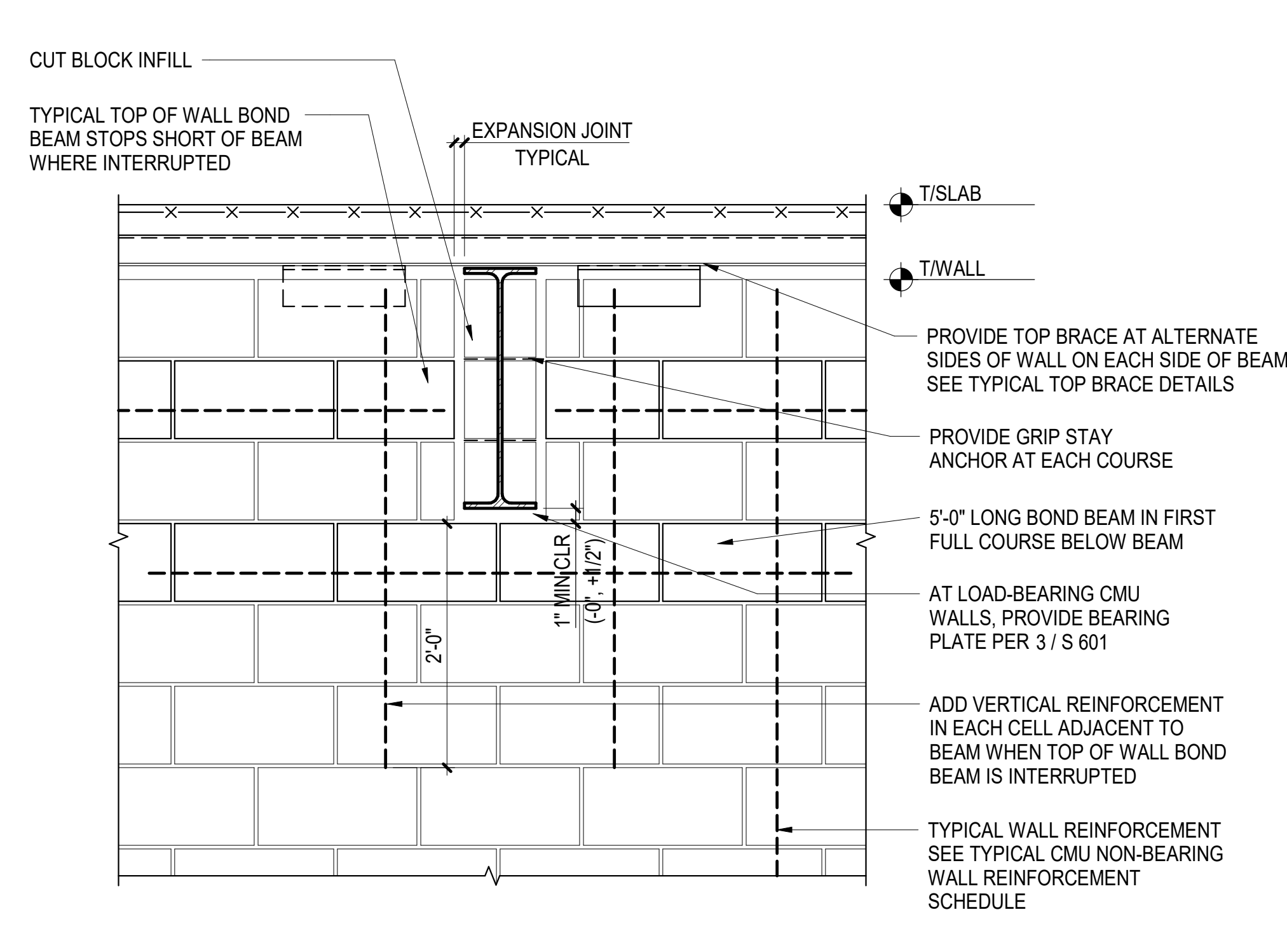
12 TYPICAL EXTERIOR CMU WALL AT ROOF
 FLUTES PARALLEL
 NOT TO SCALE



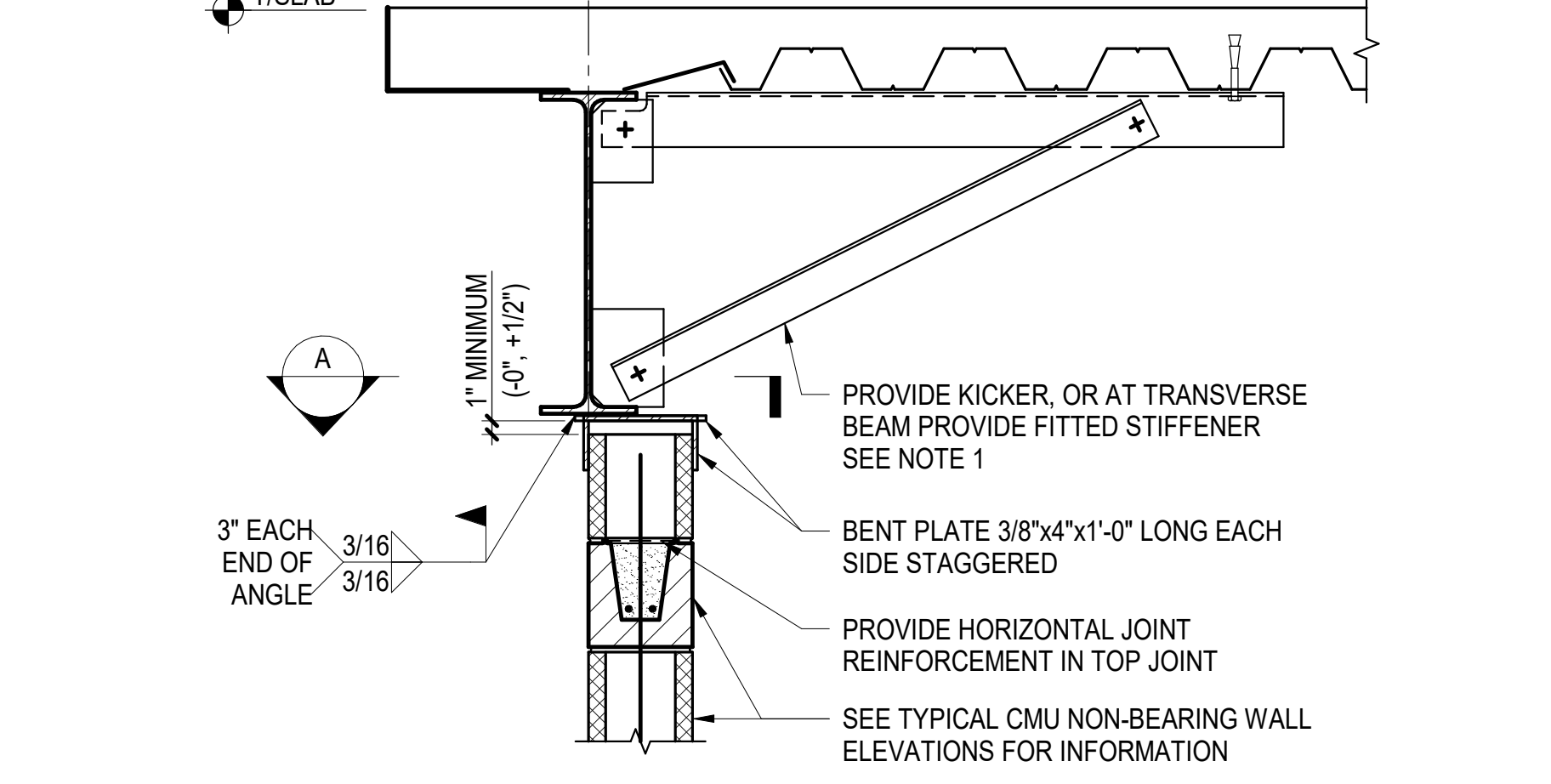
13 STEEL BEAM SUPPORTED BY
 PERPENDICULAR CMU WALL AT ROOF DECK
 1" = 1'-0"



14 CORNER GLAZING CONDITION
 1/2" = 1'-0"



15 TYPICAL DETAIL OF CMU WALL AT PERPENDICULAR STEEL BEAM
 NOT TO SCALE



16 TYPICAL NON LOAD-BEARING CMU TOP BRACE DETAIL
 UNDER STEEL BEAM
 NOT TO SCALE

ADD. No. 5 JUN 26, 2023
 ADD. No. 3 JUN 19, 2023
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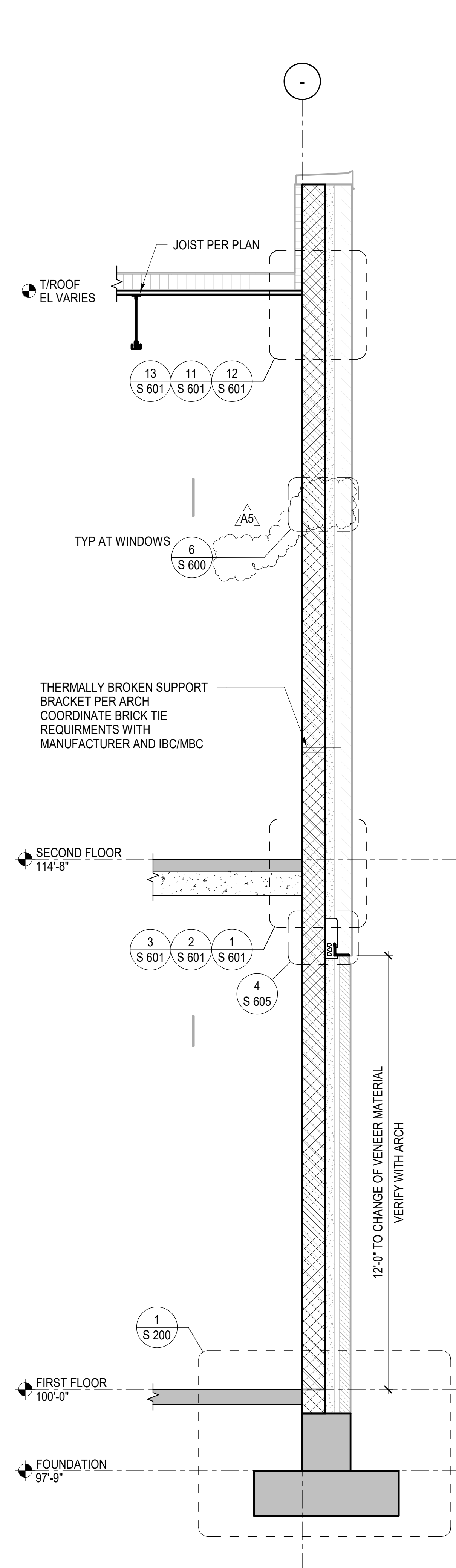
PROJECT TITLE
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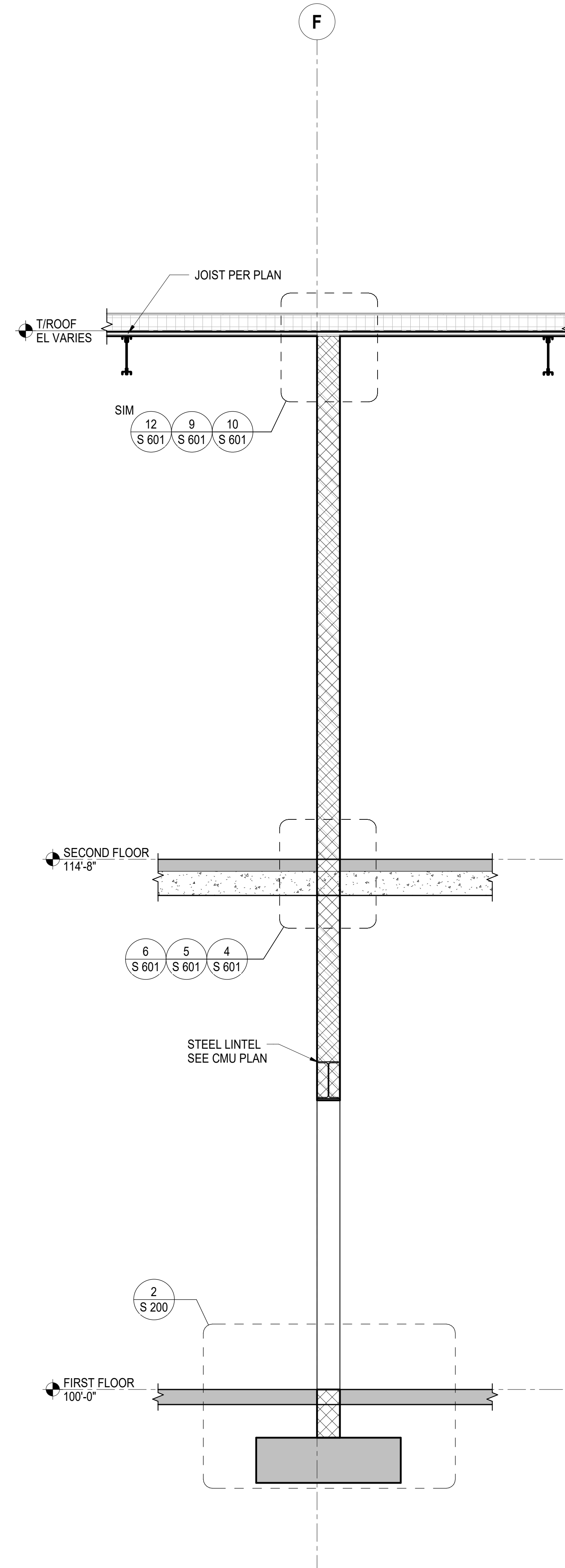
SHEET TITLE
 TYPICAL MASONRY WALL DETAILS

Portage, Michigan

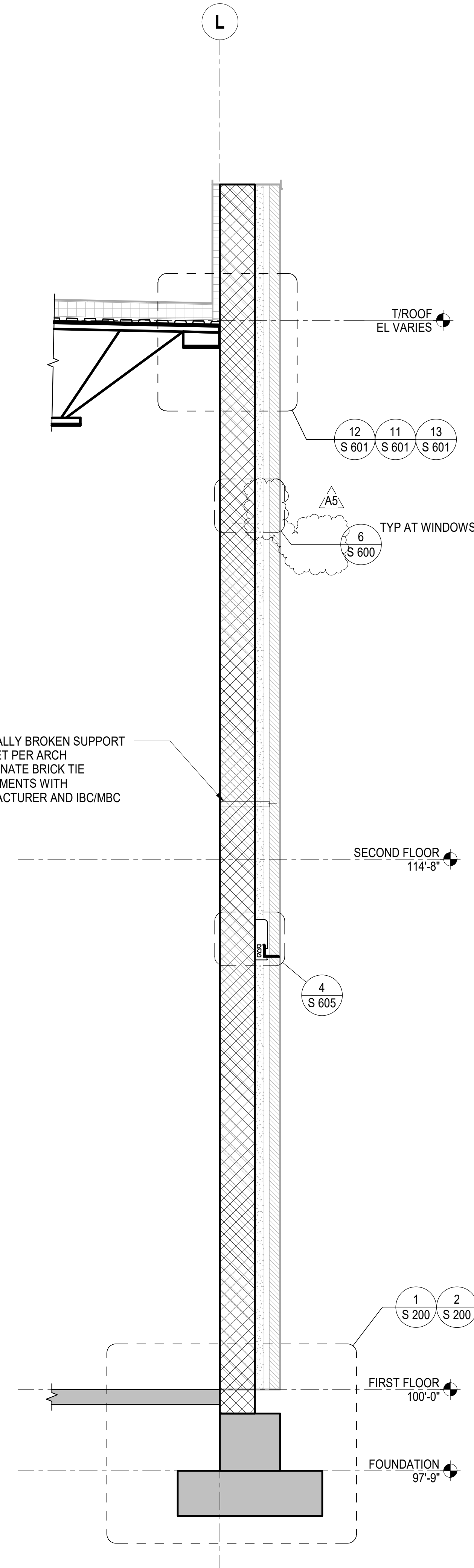
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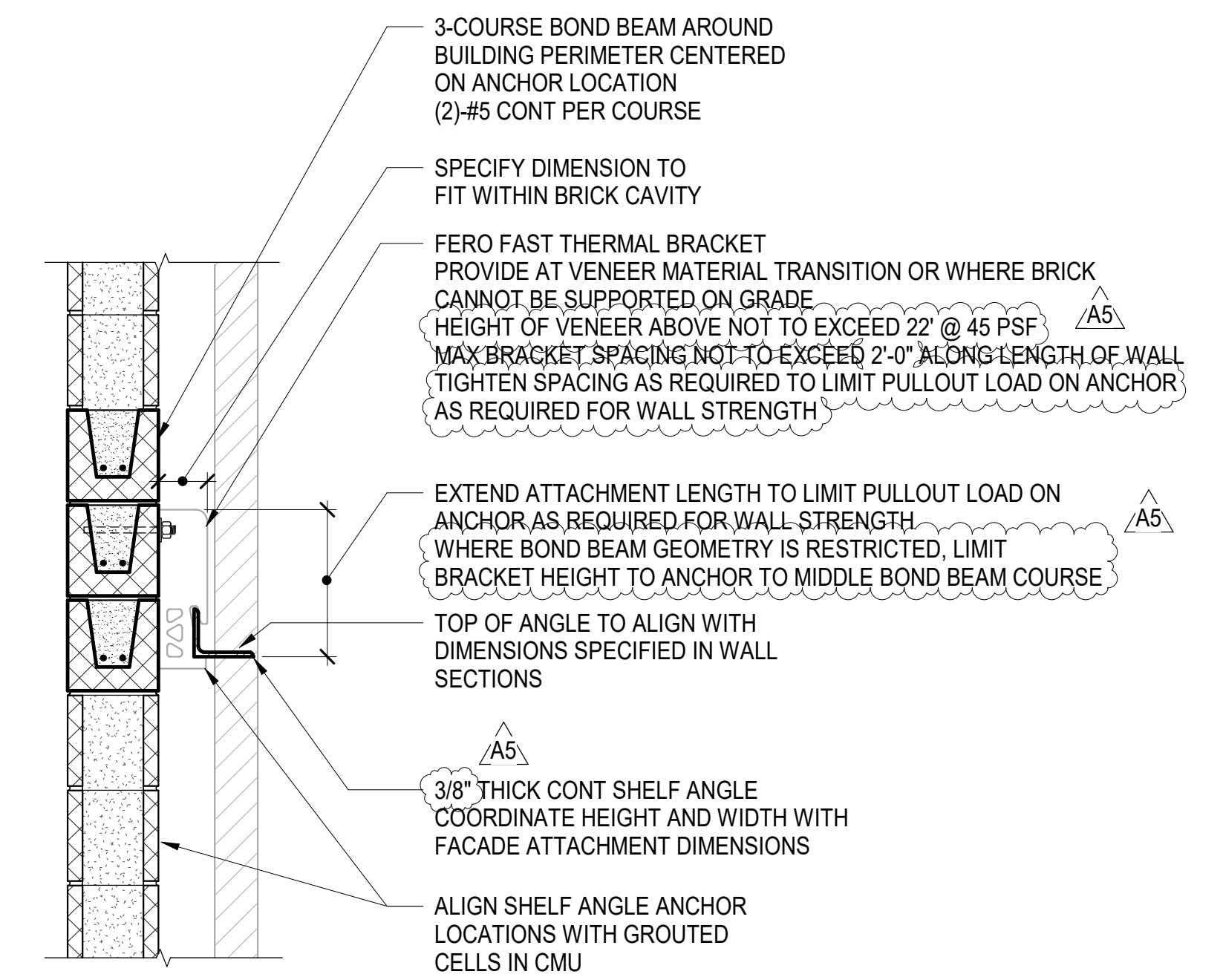
1 TYPICAL EXTERIOR STRUCTURAL CMU WALL SECTION
 1/2" = 1'-0"



2 TYPICAL INTERIOR STRUCTURAL CMU WALL SECTION
 1/2" = 1'-0"



3 TYPICAL DOUBLE-HEIGHT STRUCTURAL CMU WALL SECTION
 1/2" = 1'-0"



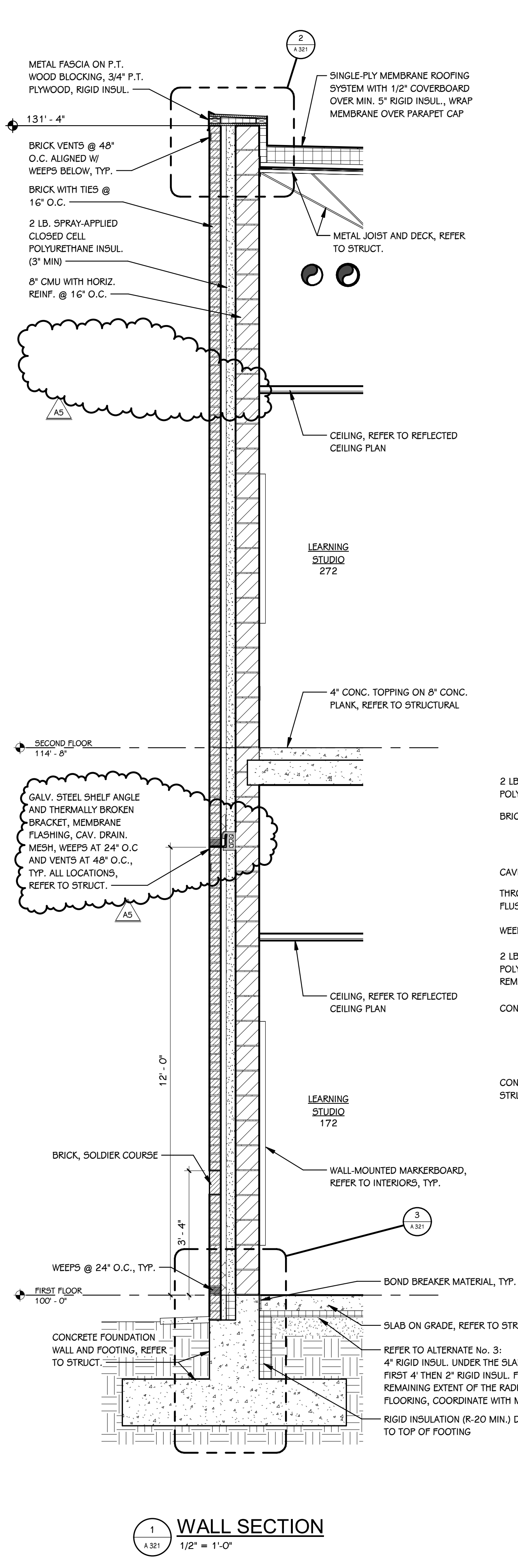
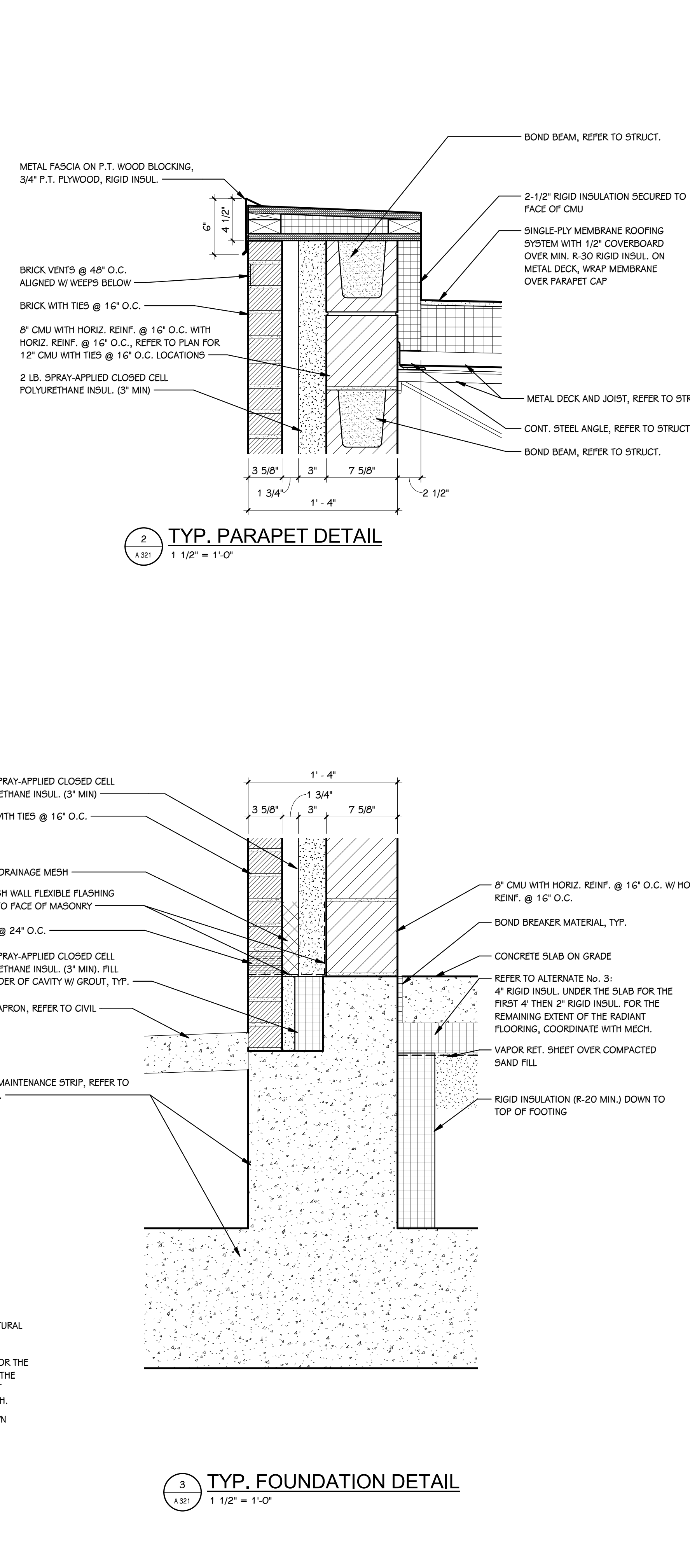
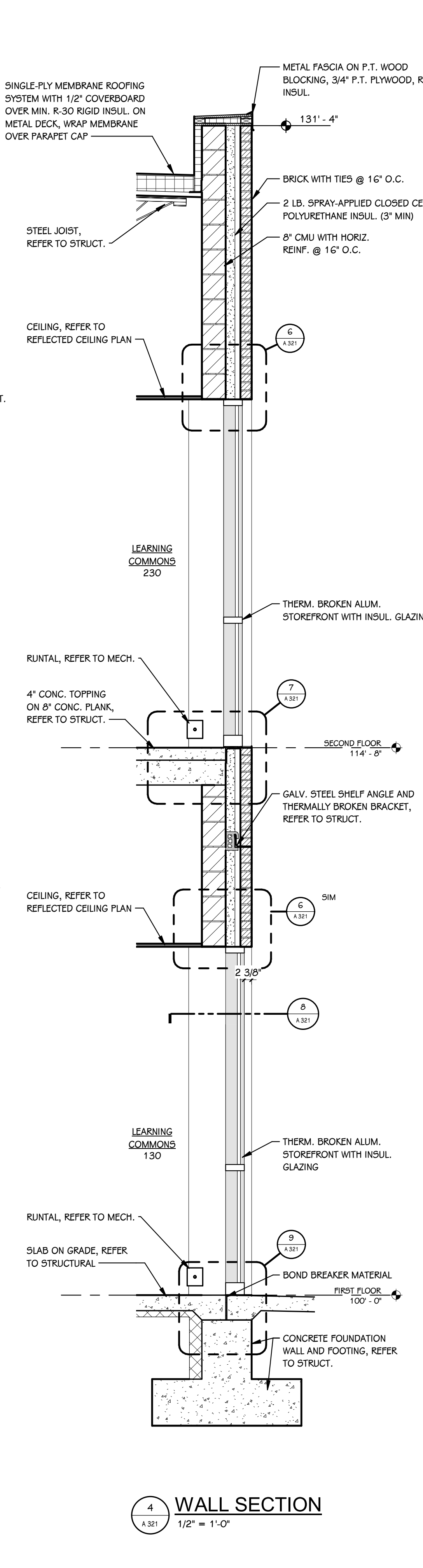
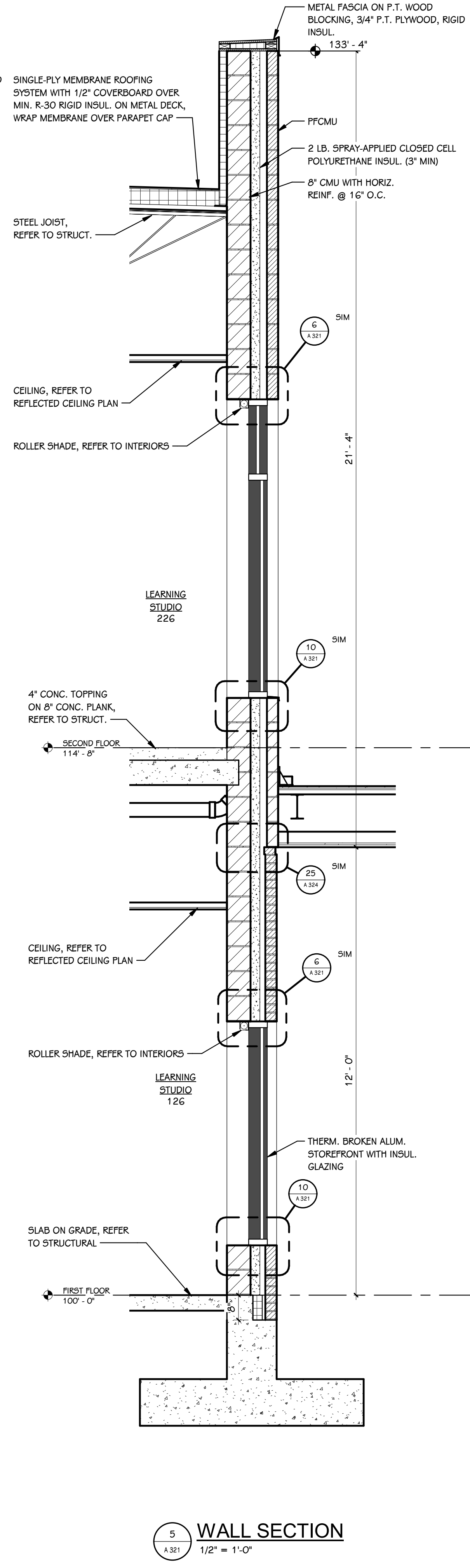
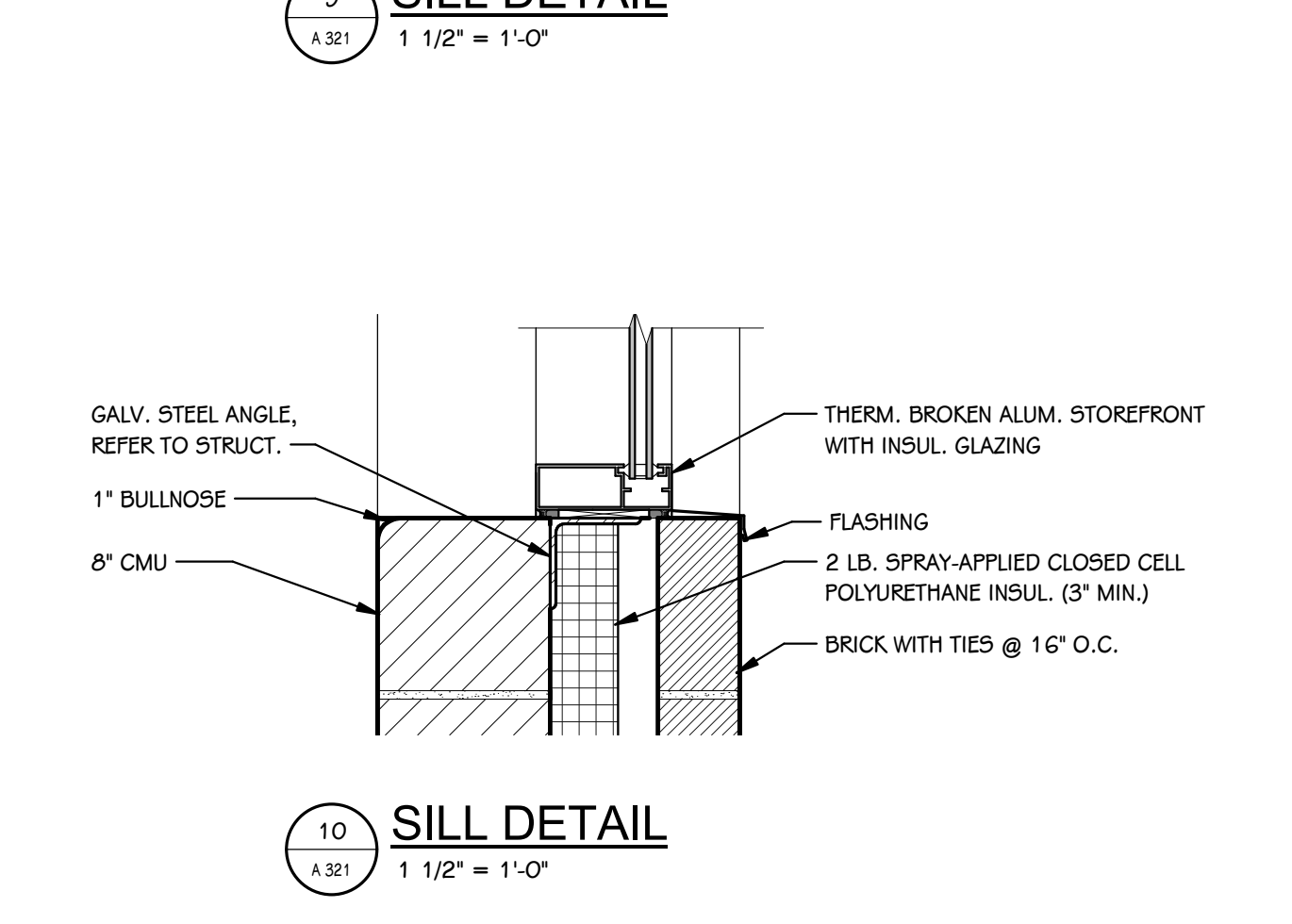
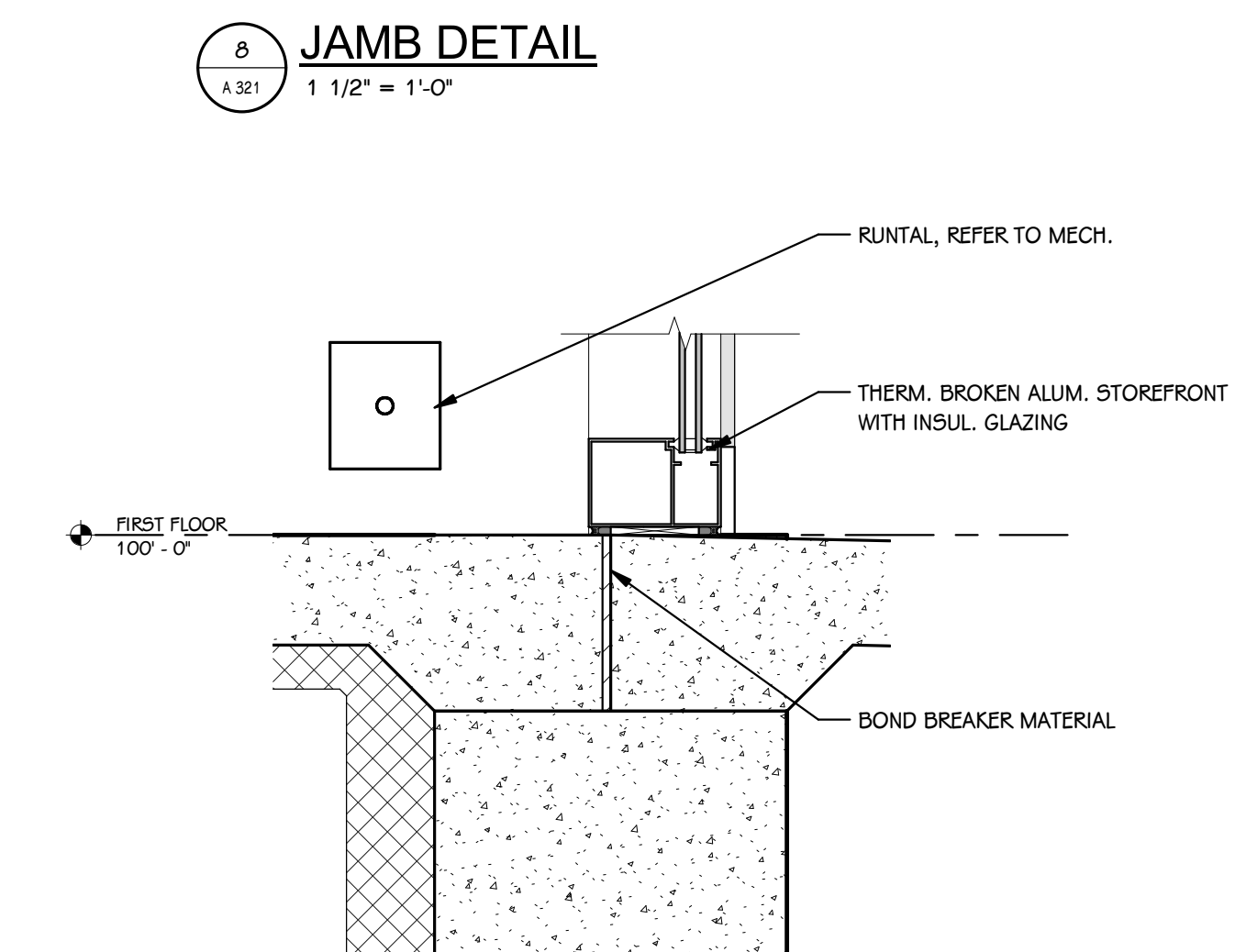
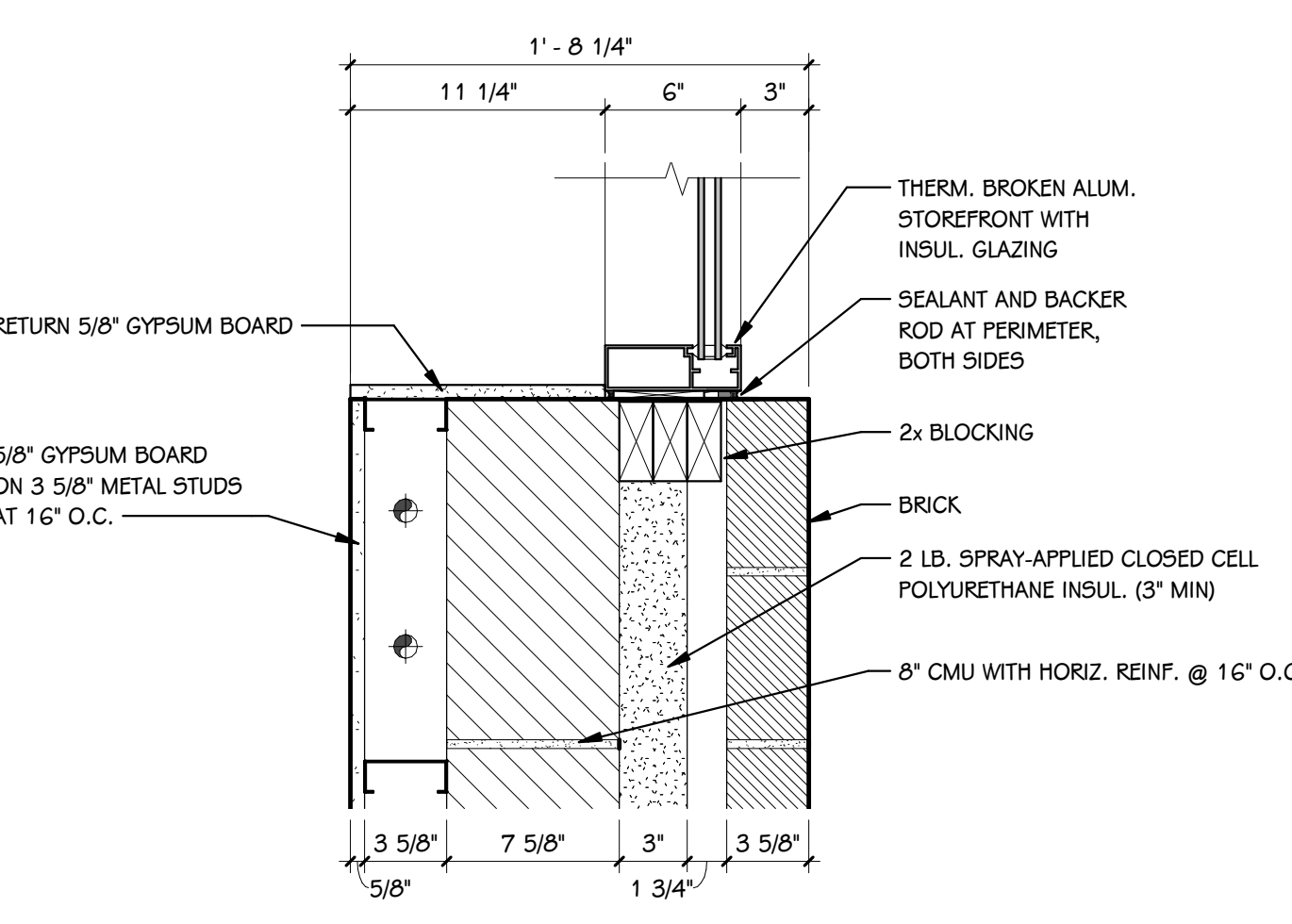
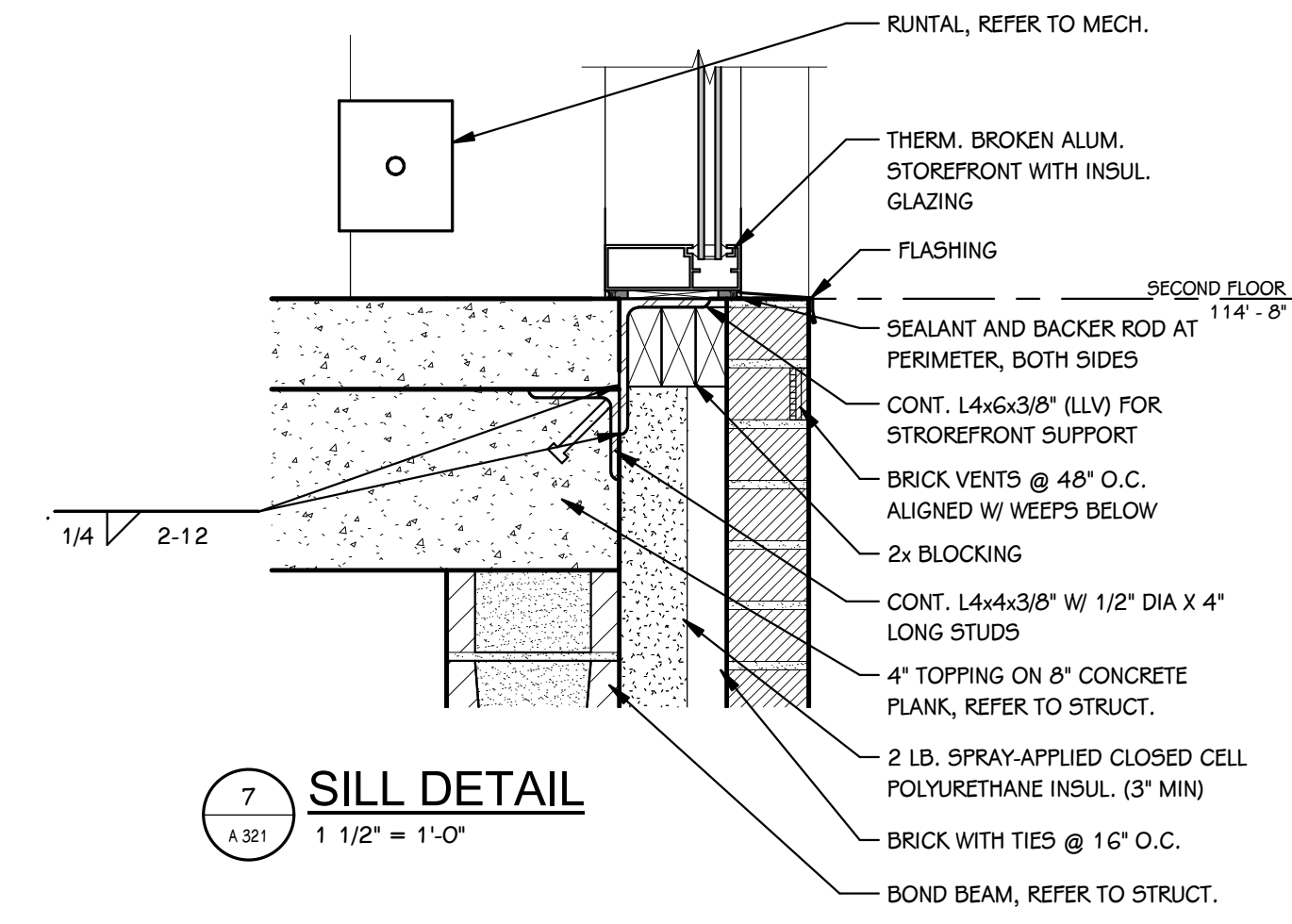
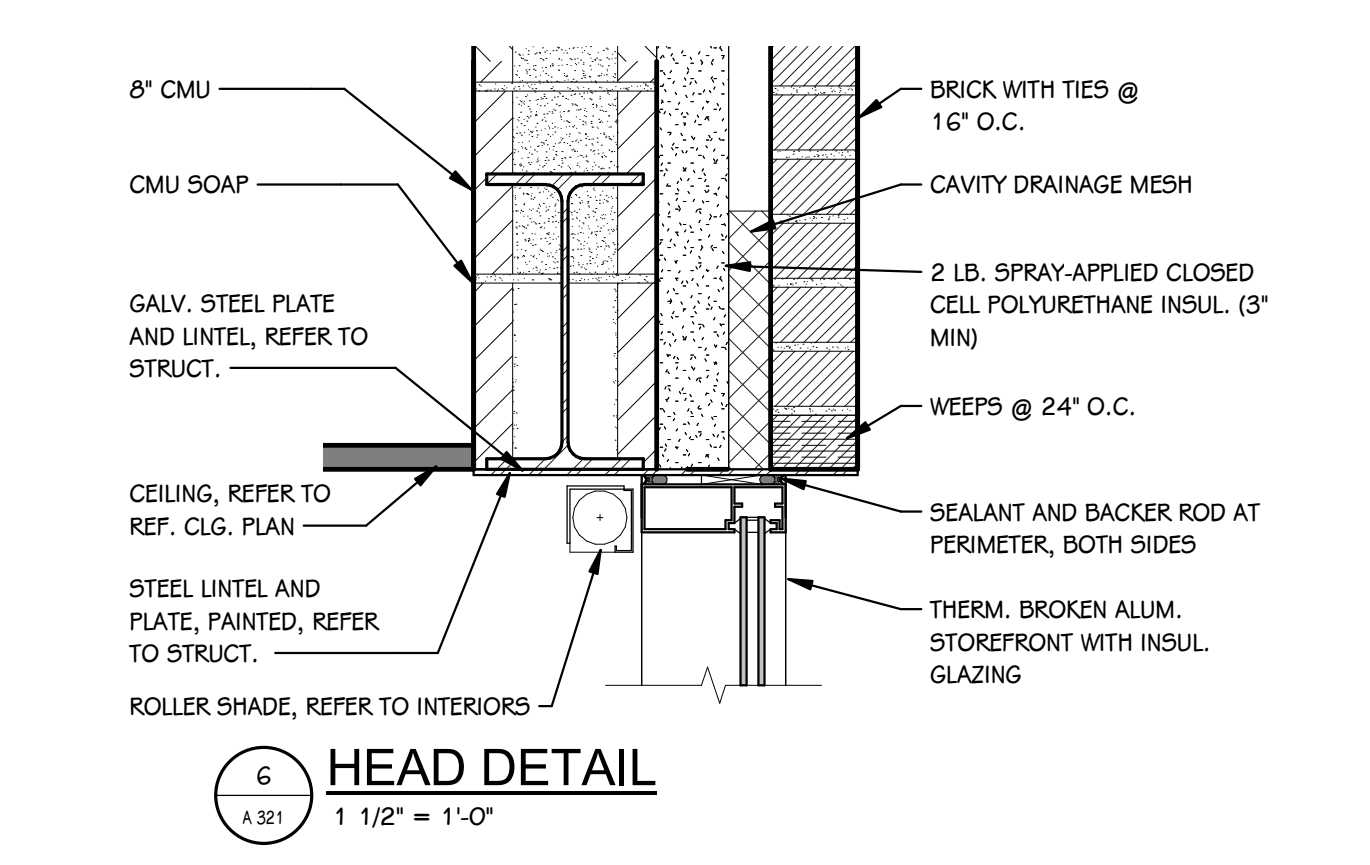
4 TYPICAL BRICK HANGER DETAIL
 1" = 1'-0"

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OWNER
 PORTAGE PUBLIC SCHOOLS
 Portage, Michigan

SHEET TITLE
 TYPICAL MASONRY SECTIONS
 SHEET NUMBER
S 605
 21-237.10
 DATE
 MAY 17, 2023



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

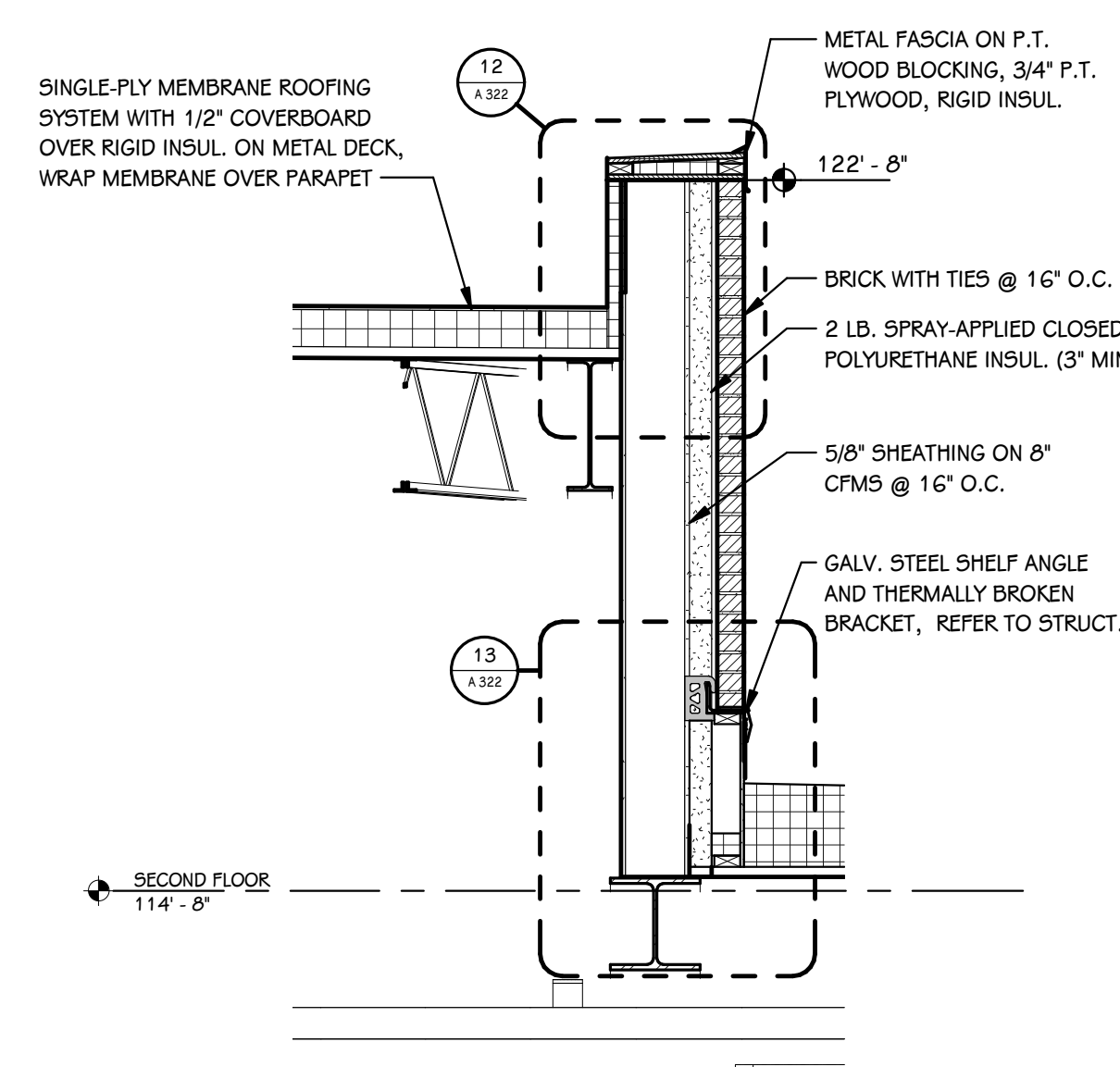
3 TYP. FOUNDATION DETAIL
1 1/2" = 1'-0"

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

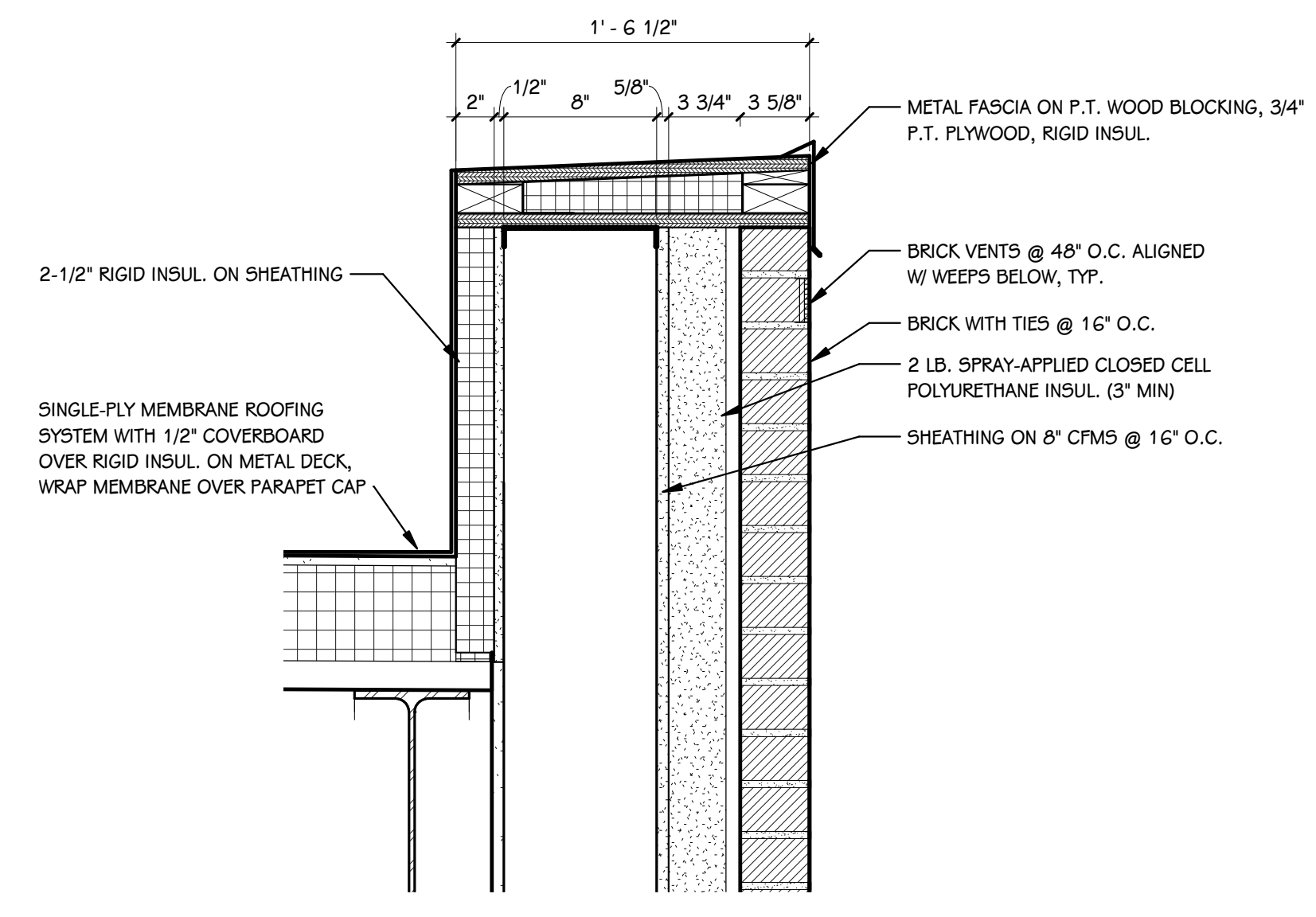
5 WALL SECTION
1/2" = 1'-0"

10 SILL DETAIL
1 1/2" = 1'-0"

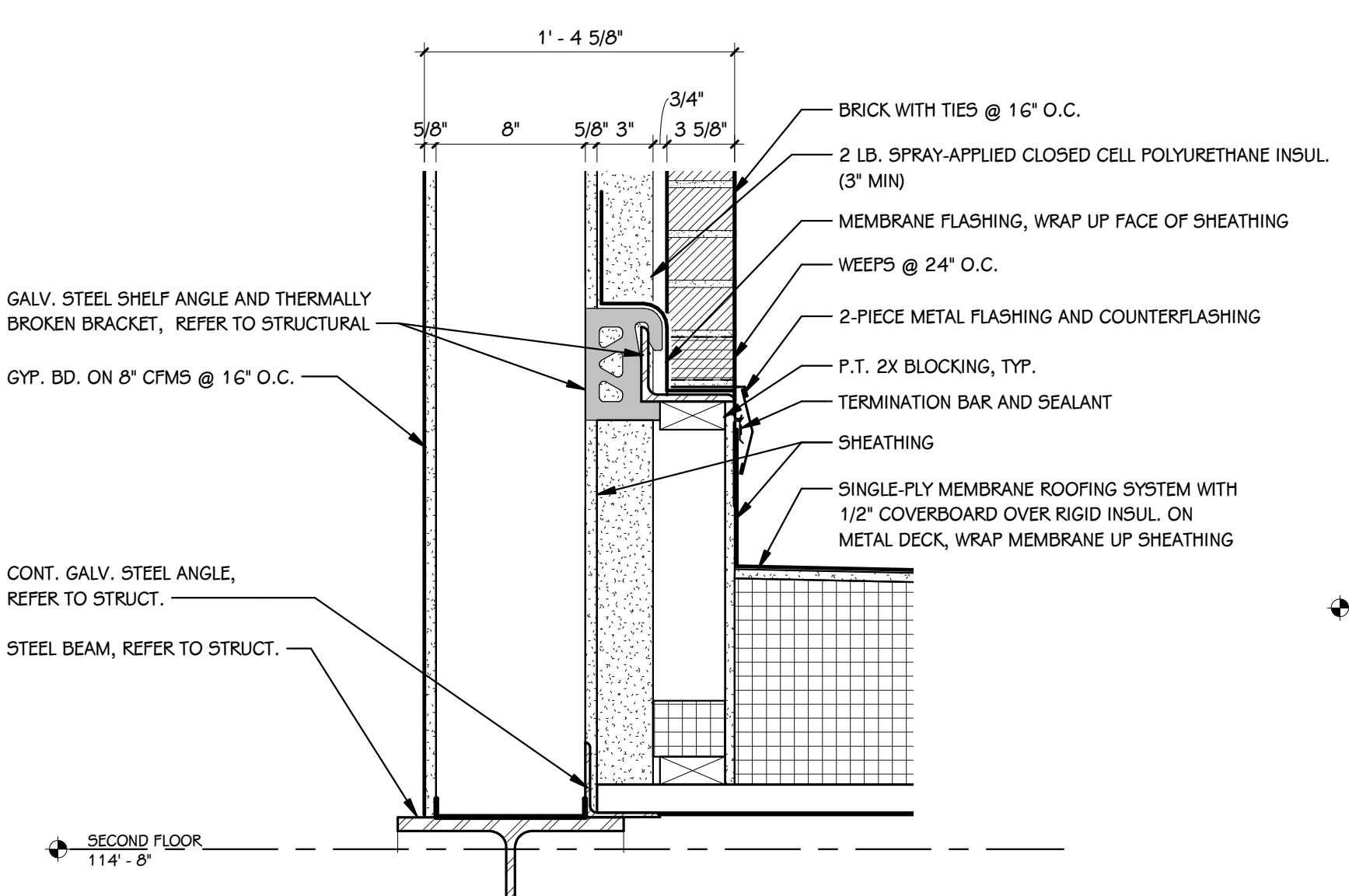
SHEET TITLE
WALL SECTIONS



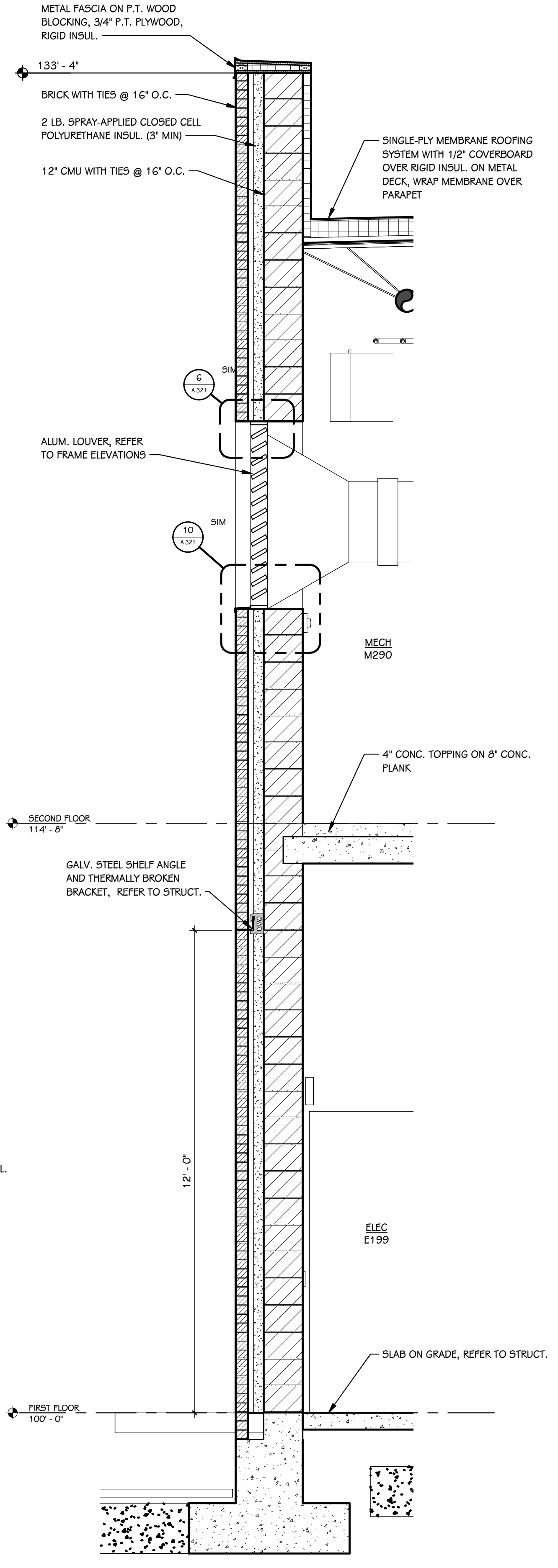
11 WALL SECTION
1/2" = 1'-0"



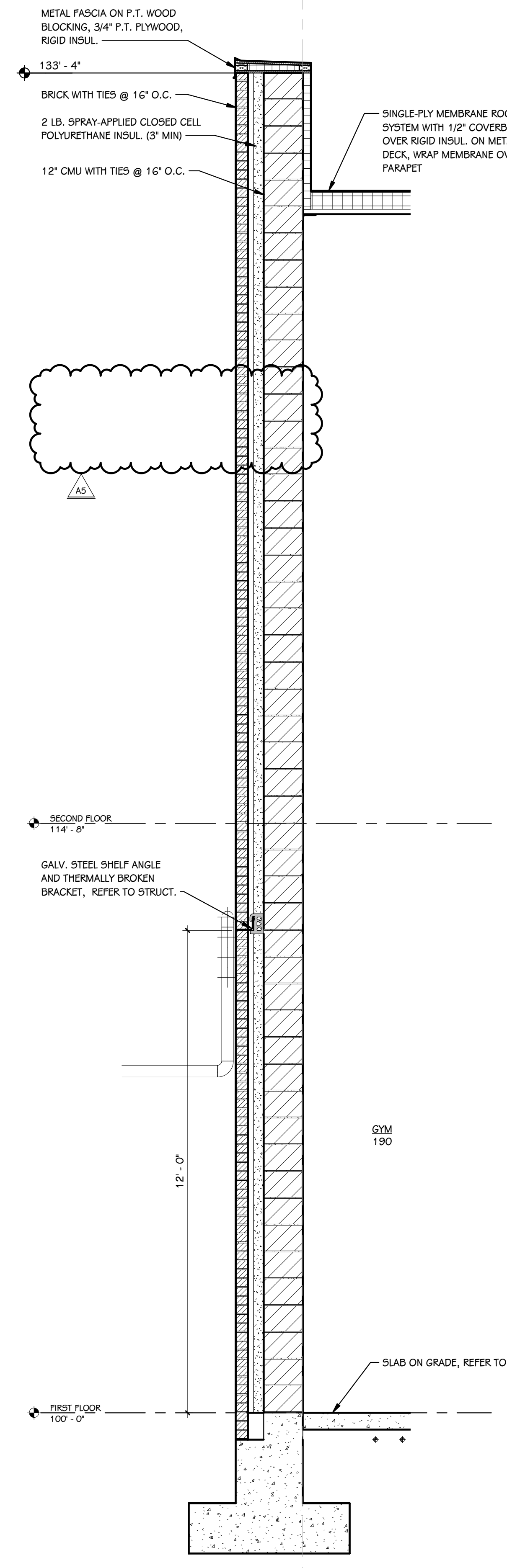
12 WALL DETAIL
1/2" = 1'-0"



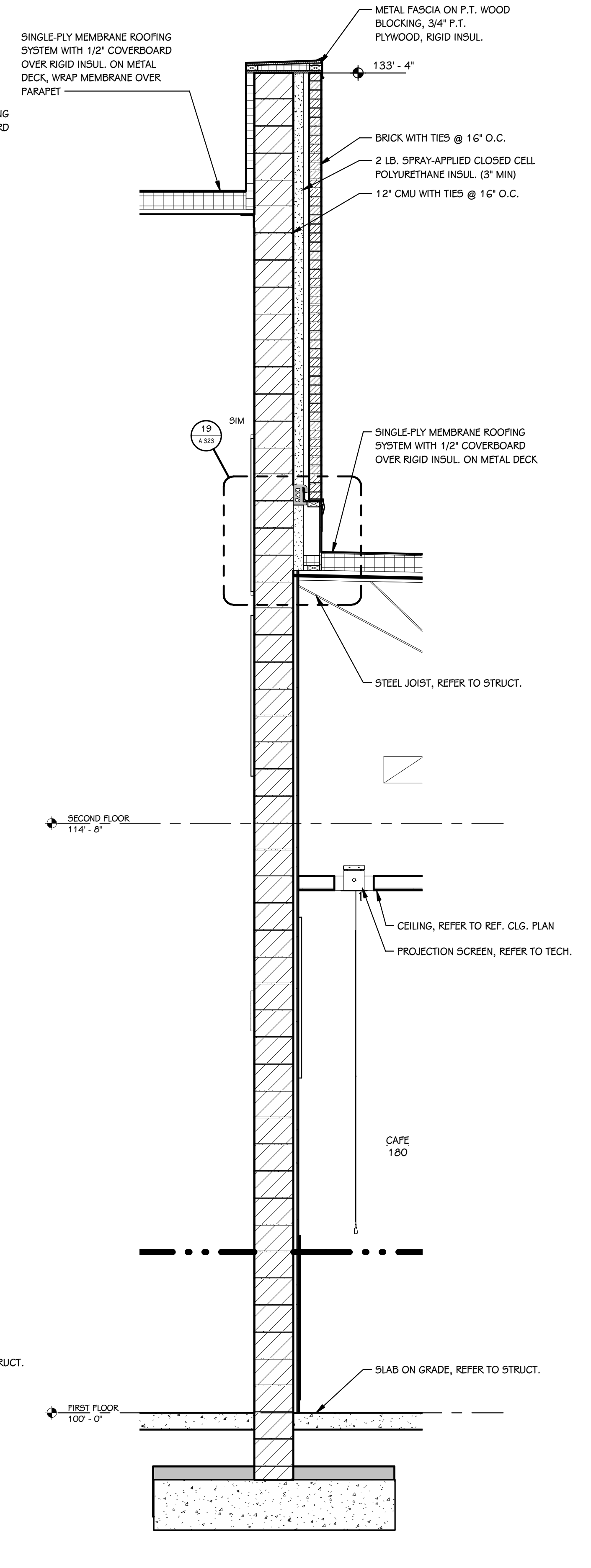
13 WALL DETAIL
1/2" = 1'-0"



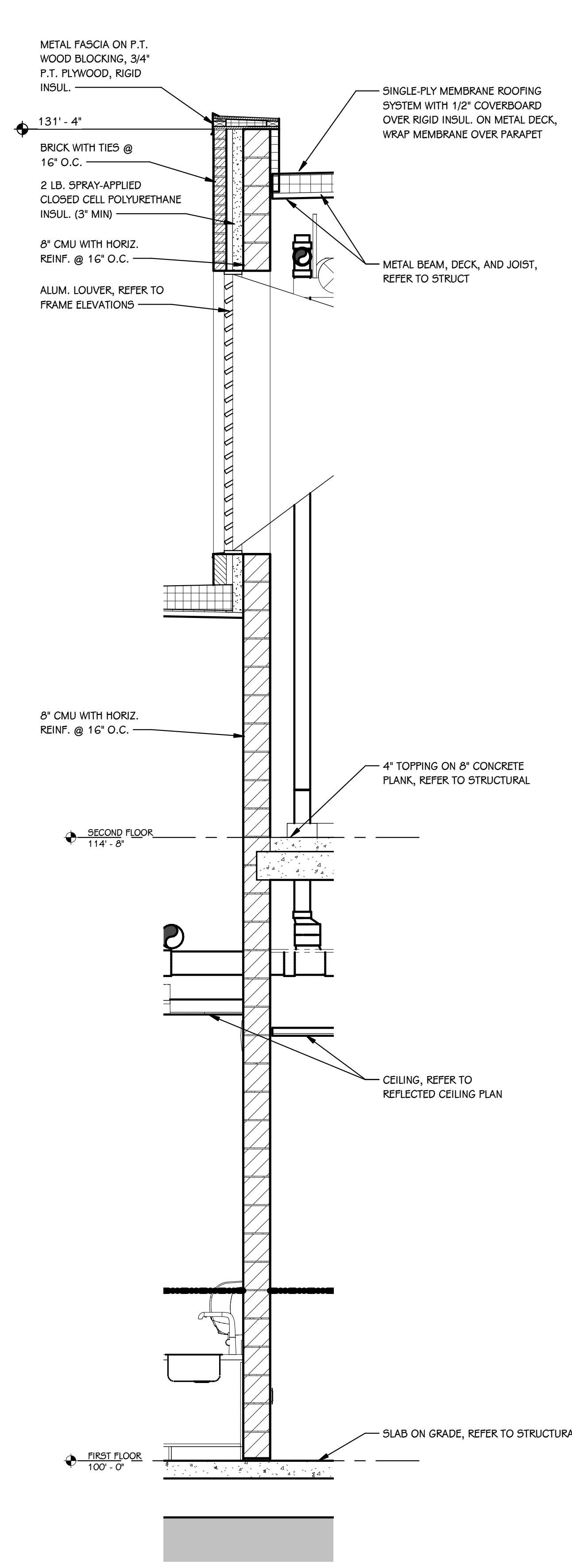
14 WALL SECTION
1/2" = 1'-0"



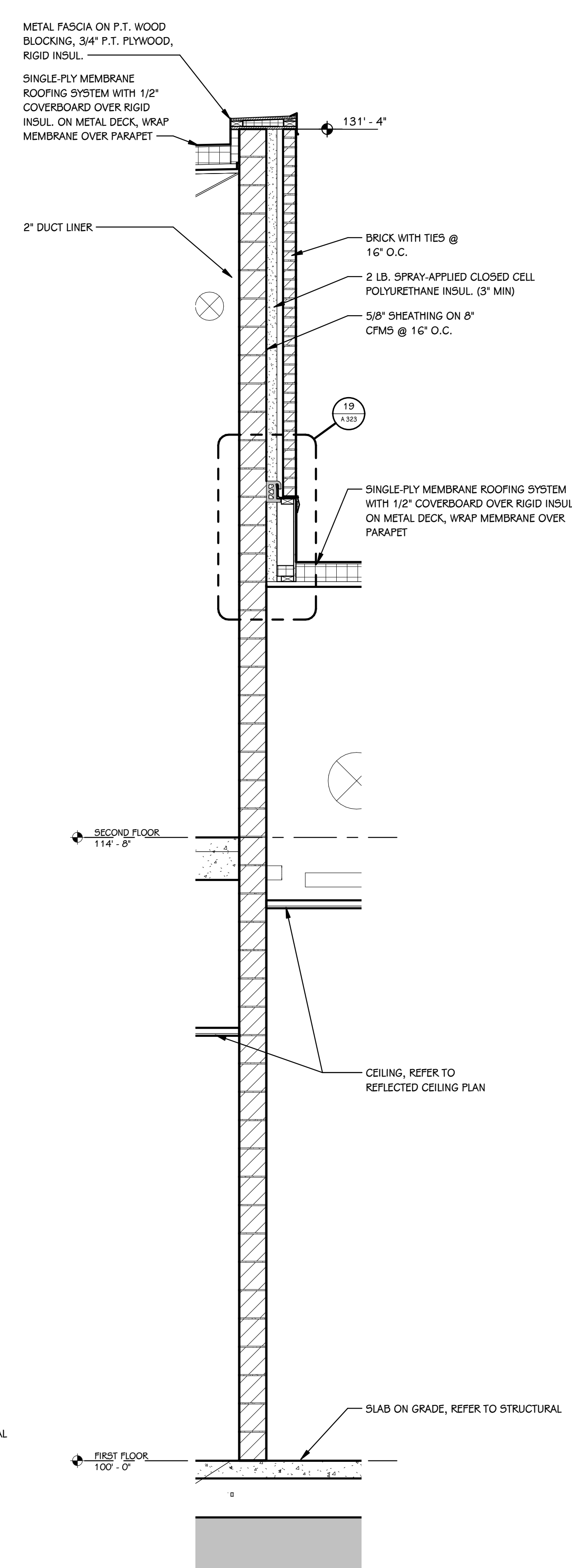
15 WALL SECTION
1/2" = 1'-0"



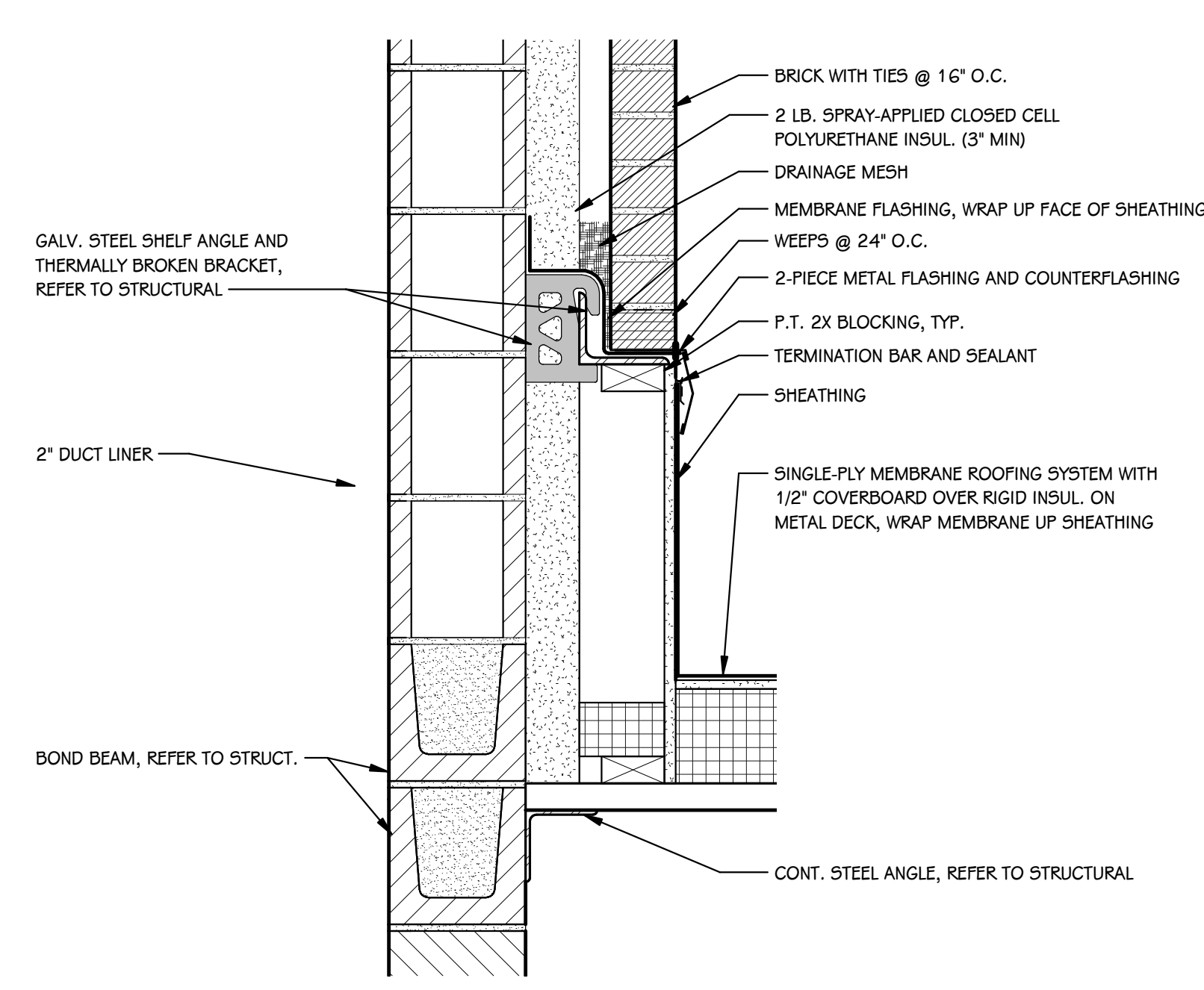
16 WALL SECTION
1/2" = 1'-0"



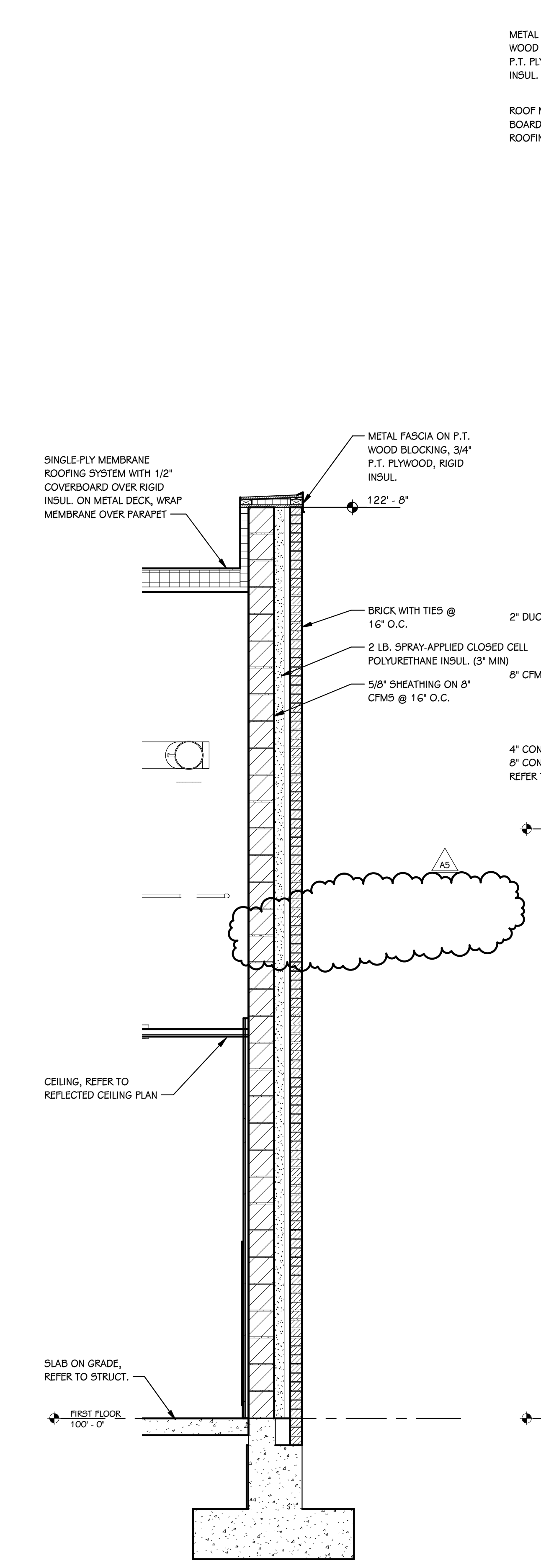
17 WALL SECTION
1/2" = 1'-0"



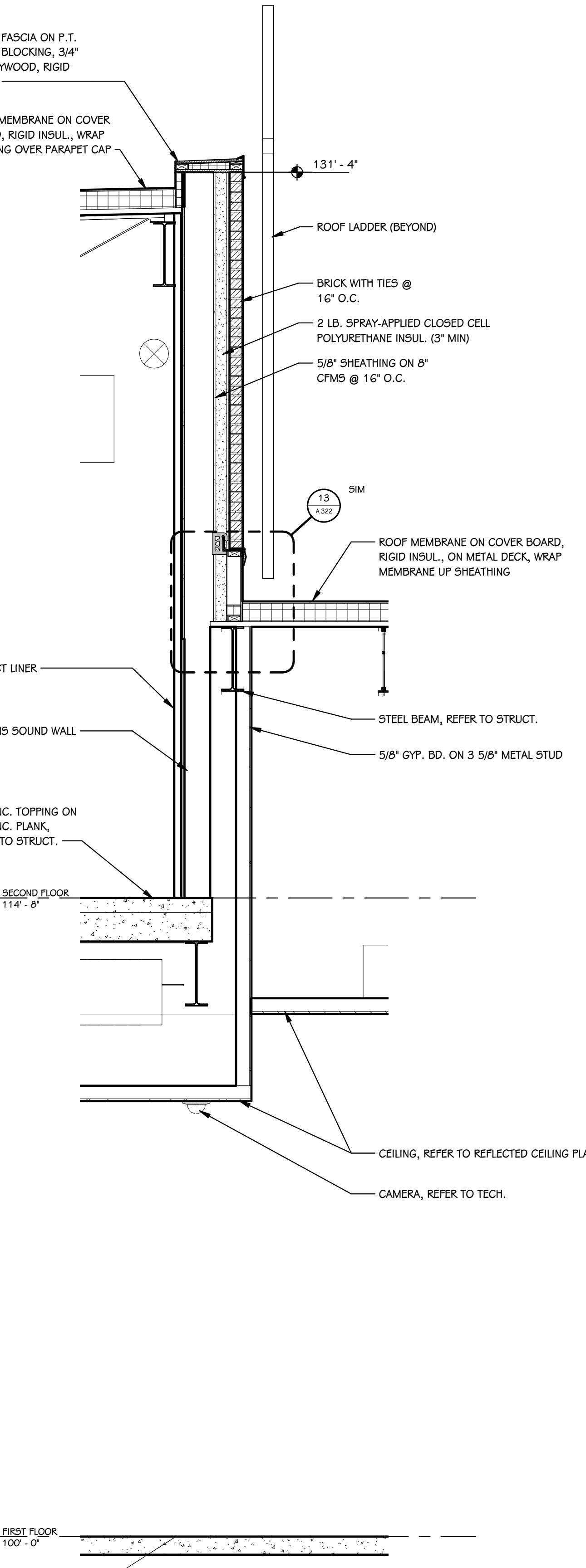
18 WALL SECTION
1/2" = 1'-0"



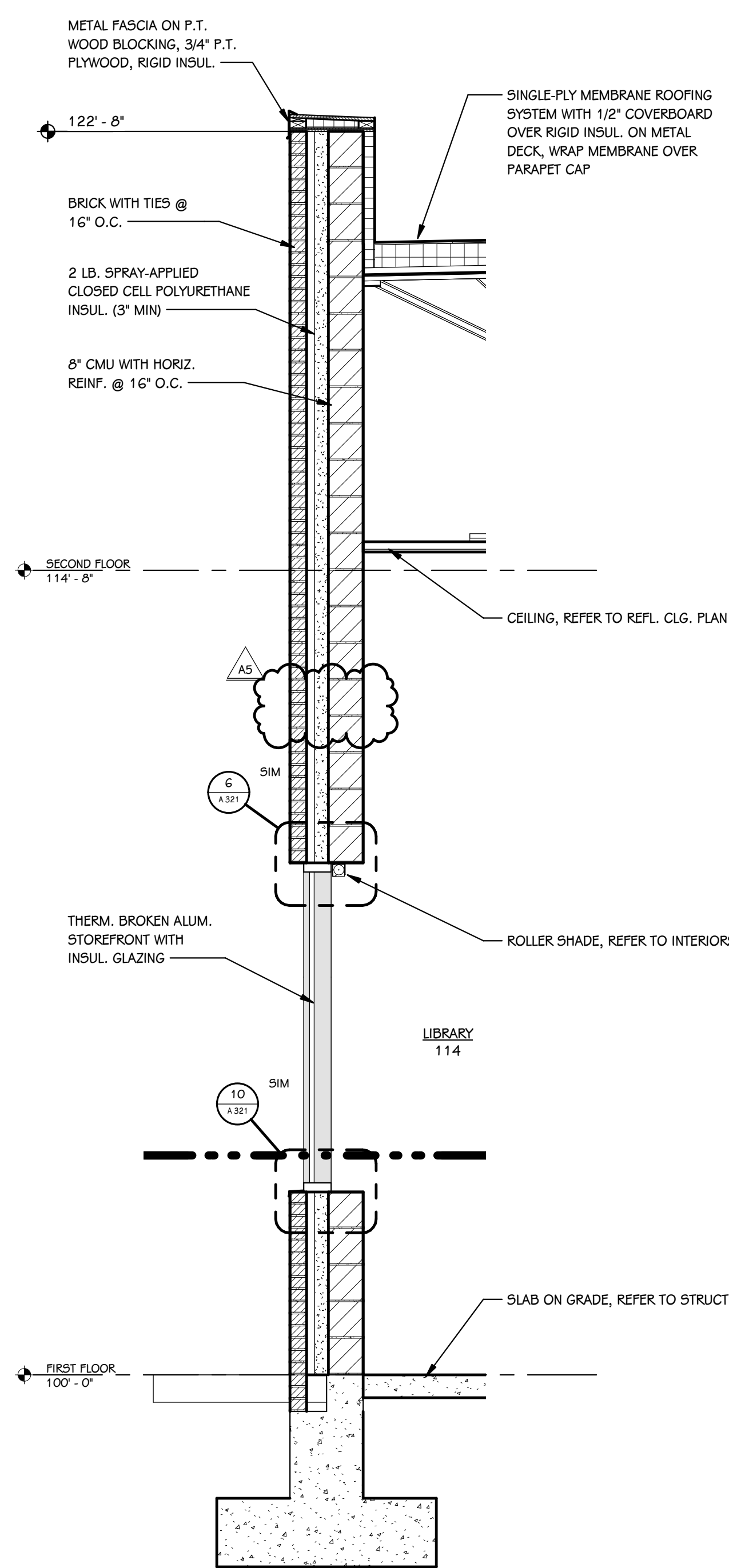
19 WALL DETAIL
1 1/2" = 1'-0"



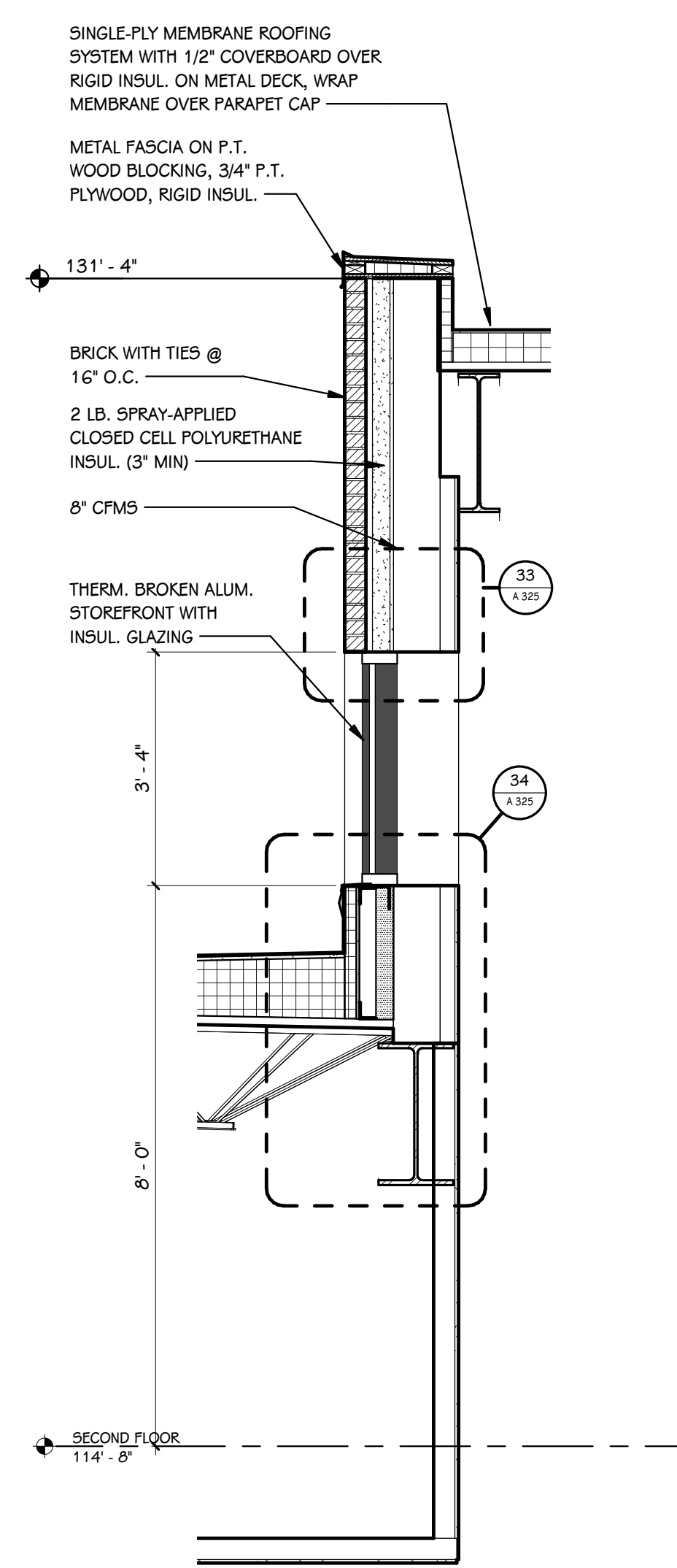
20 WALL SECTION
1/2" = 1'-0"



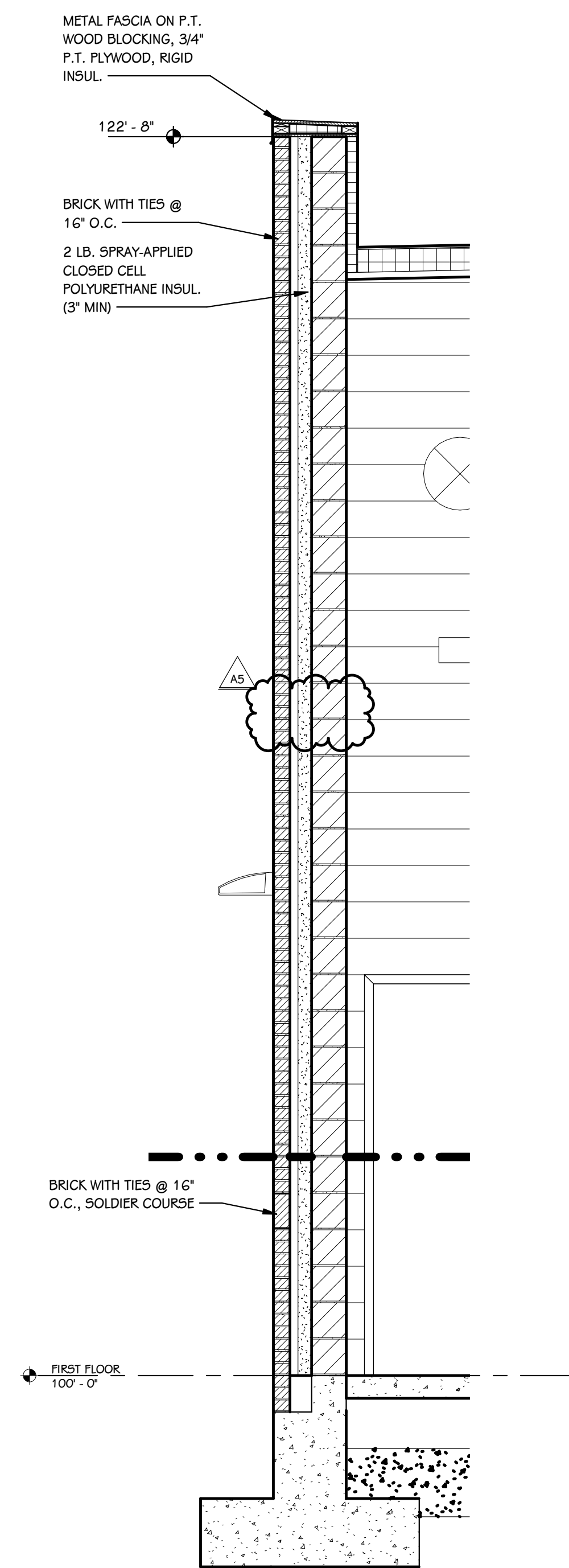
21 WALL SECTION
1/2" = 1'-0"



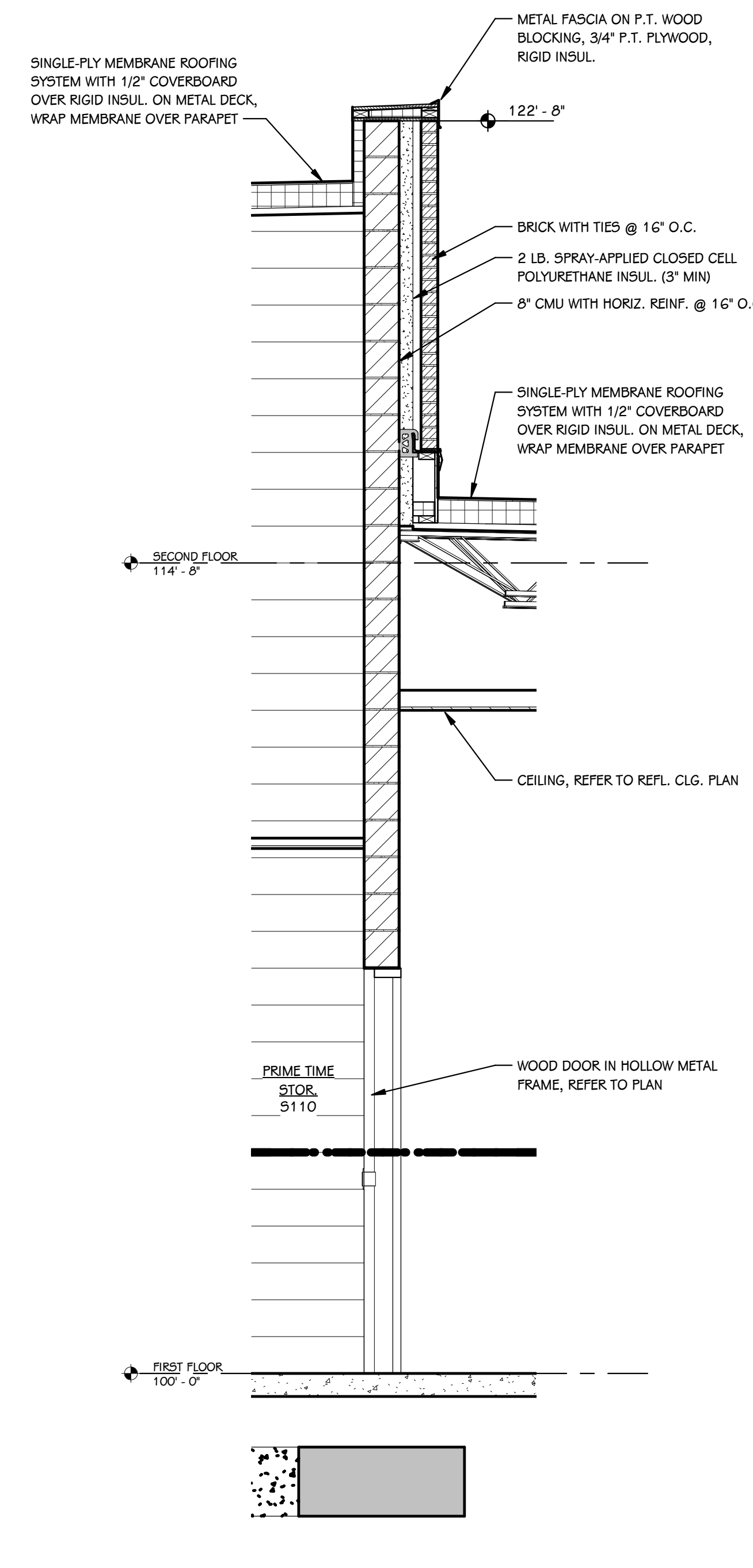
29 WALL SECTION
A 325 1/2" = 1'-0"



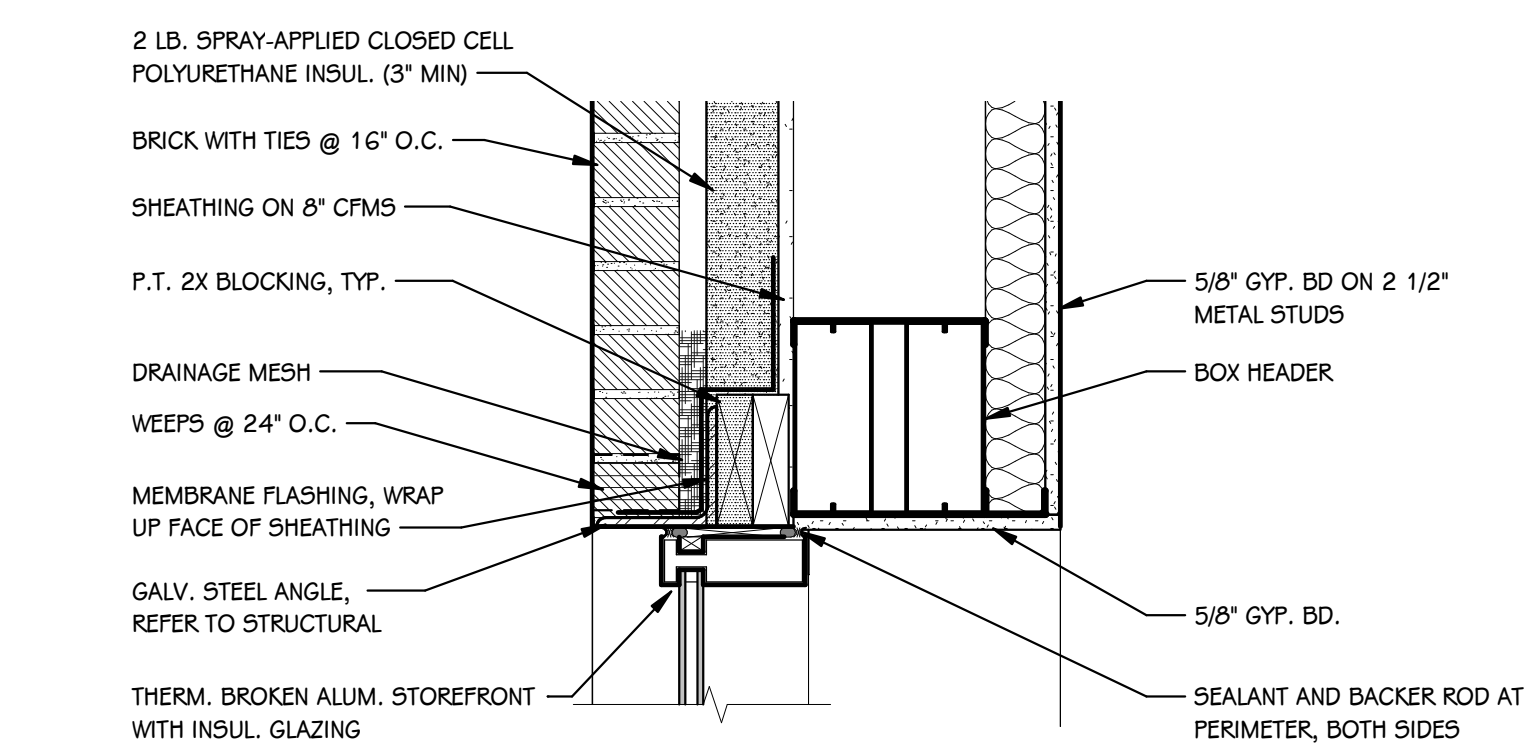
30 WALL SECTION
A 325 1/2" = 1'-0"



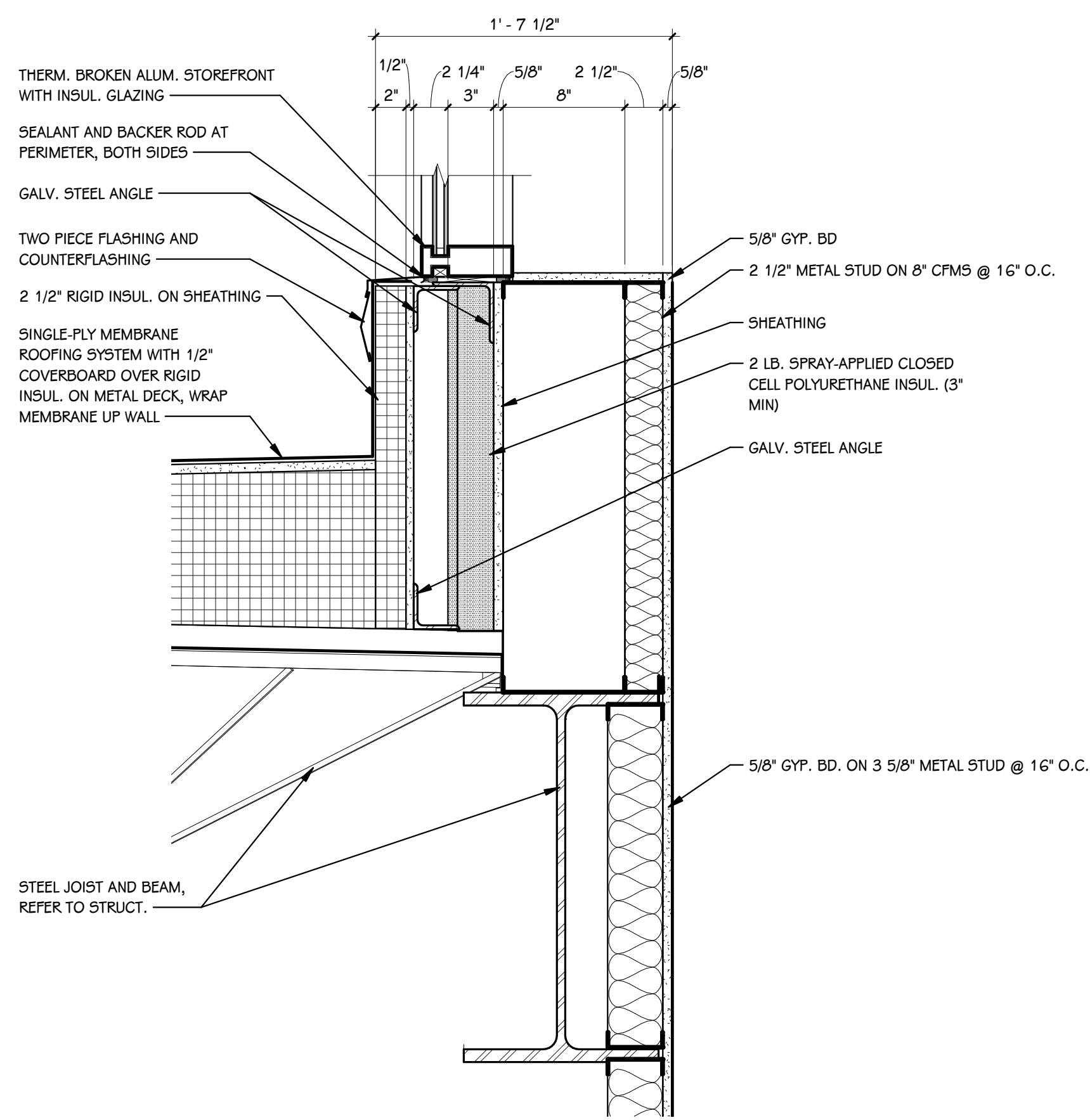
31 WALL SECTION
A 325 1/2" = 1'-0"



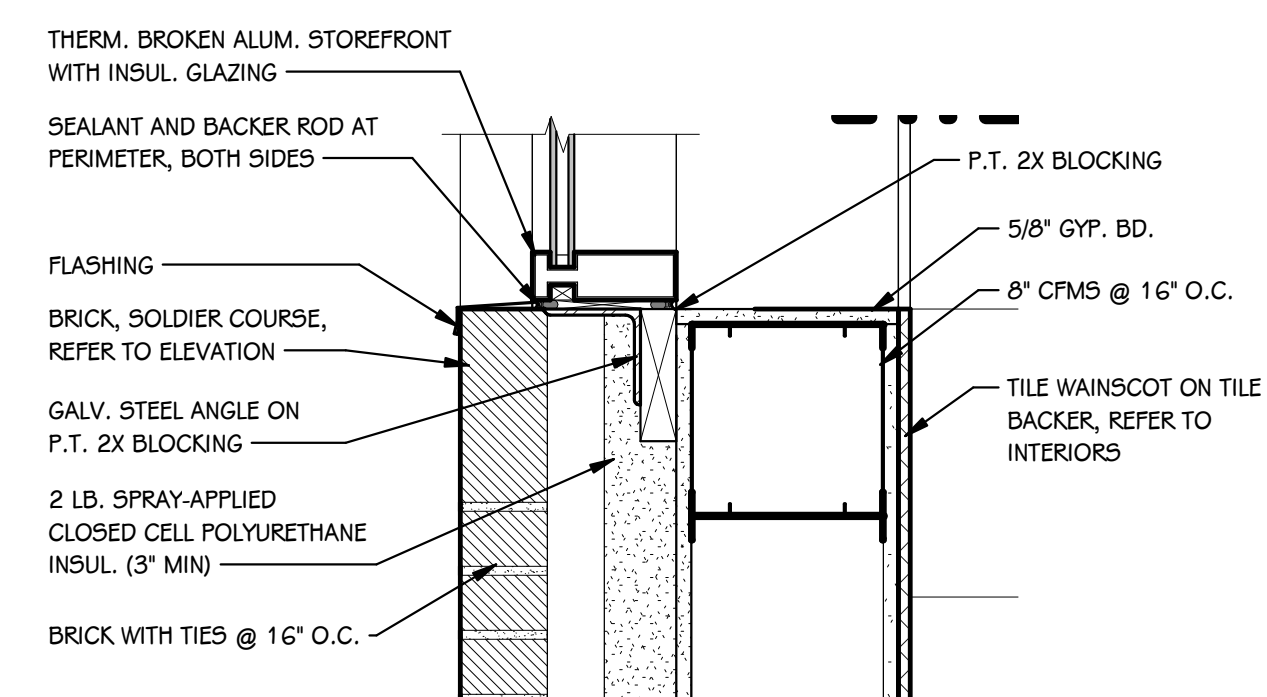
32 WALL SECTION
A 325 1/2" = 1'-0"



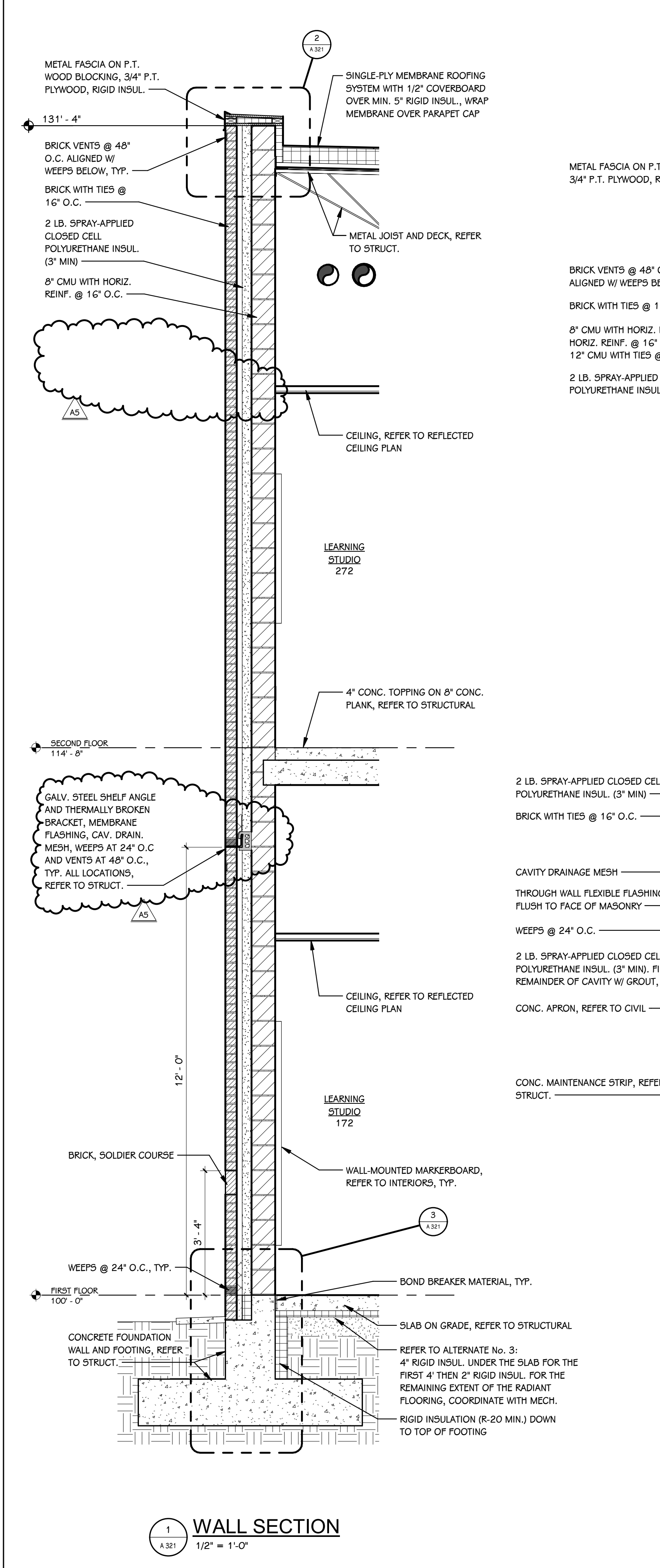
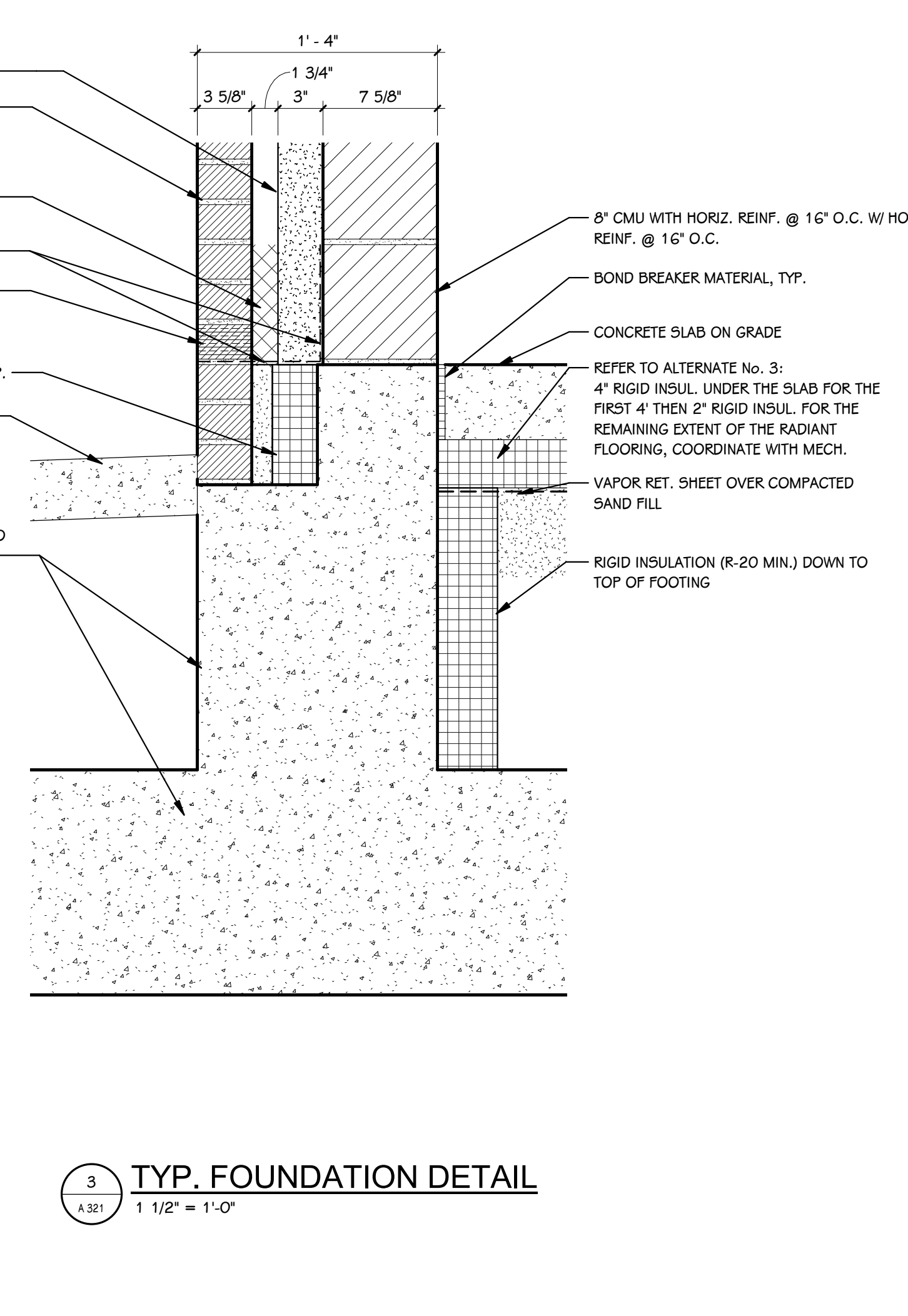
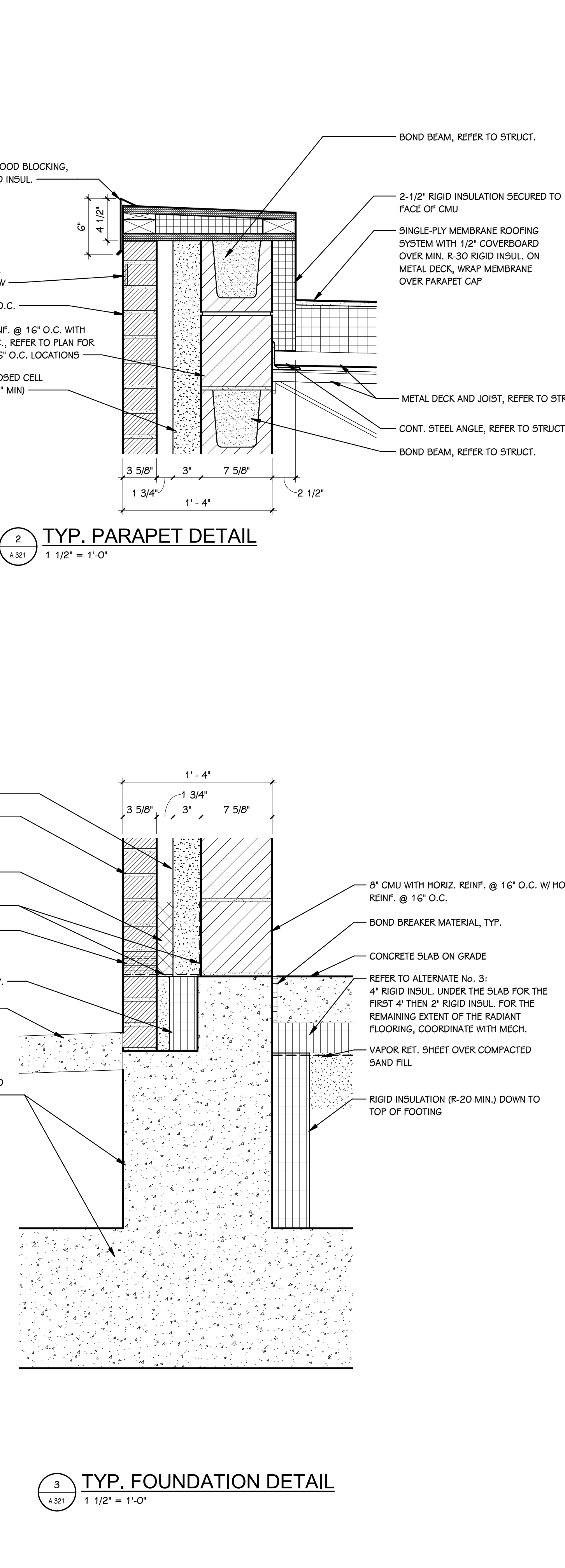
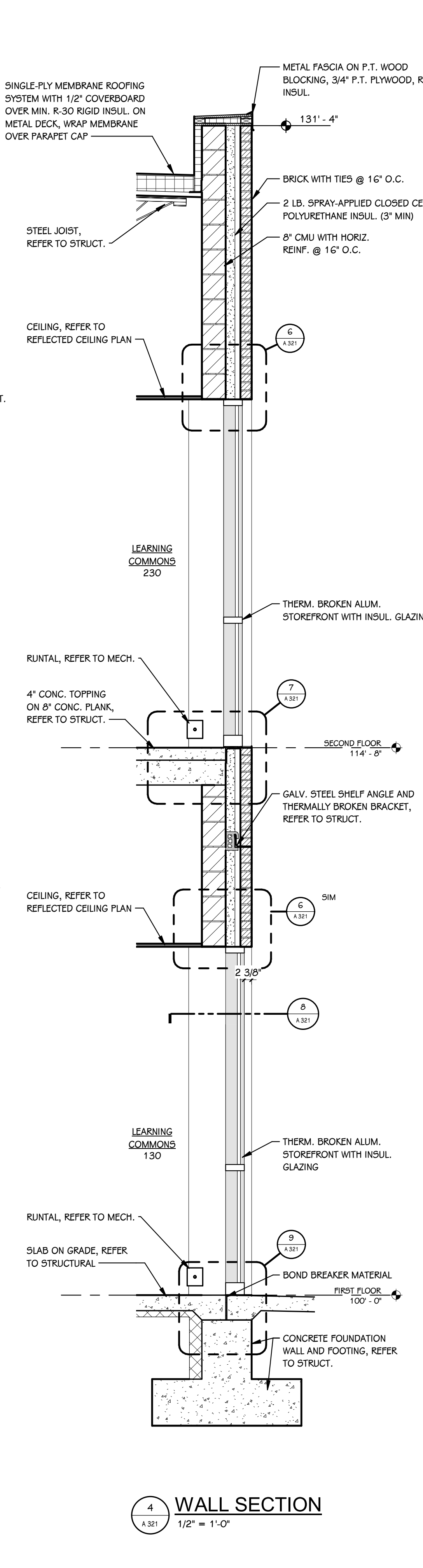
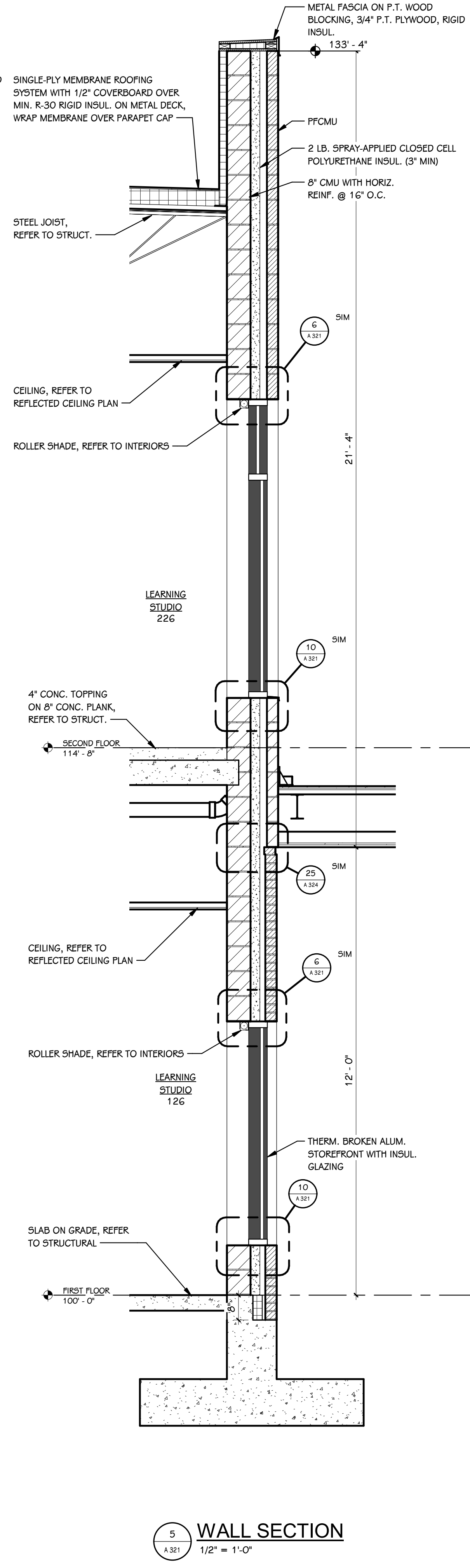
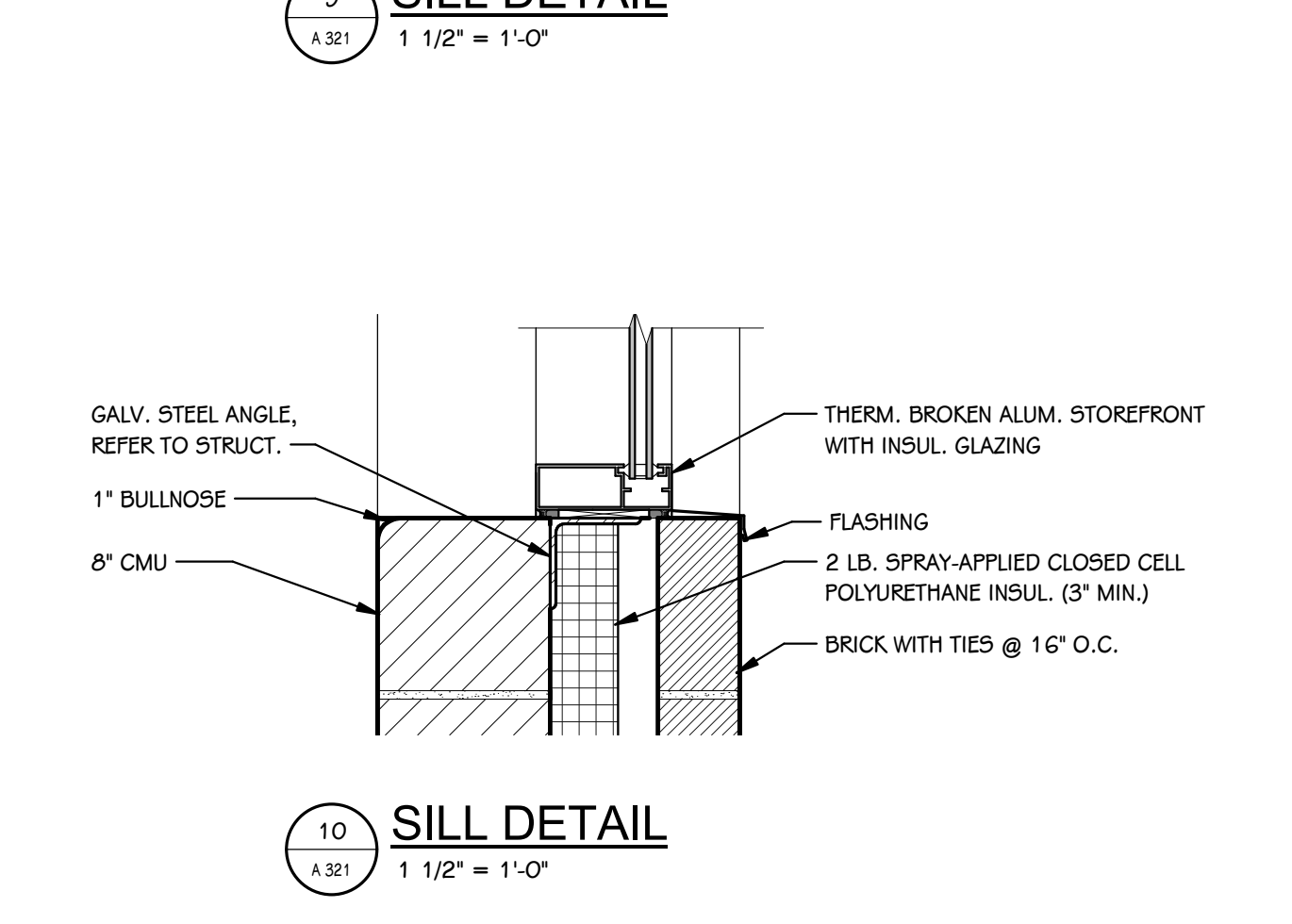
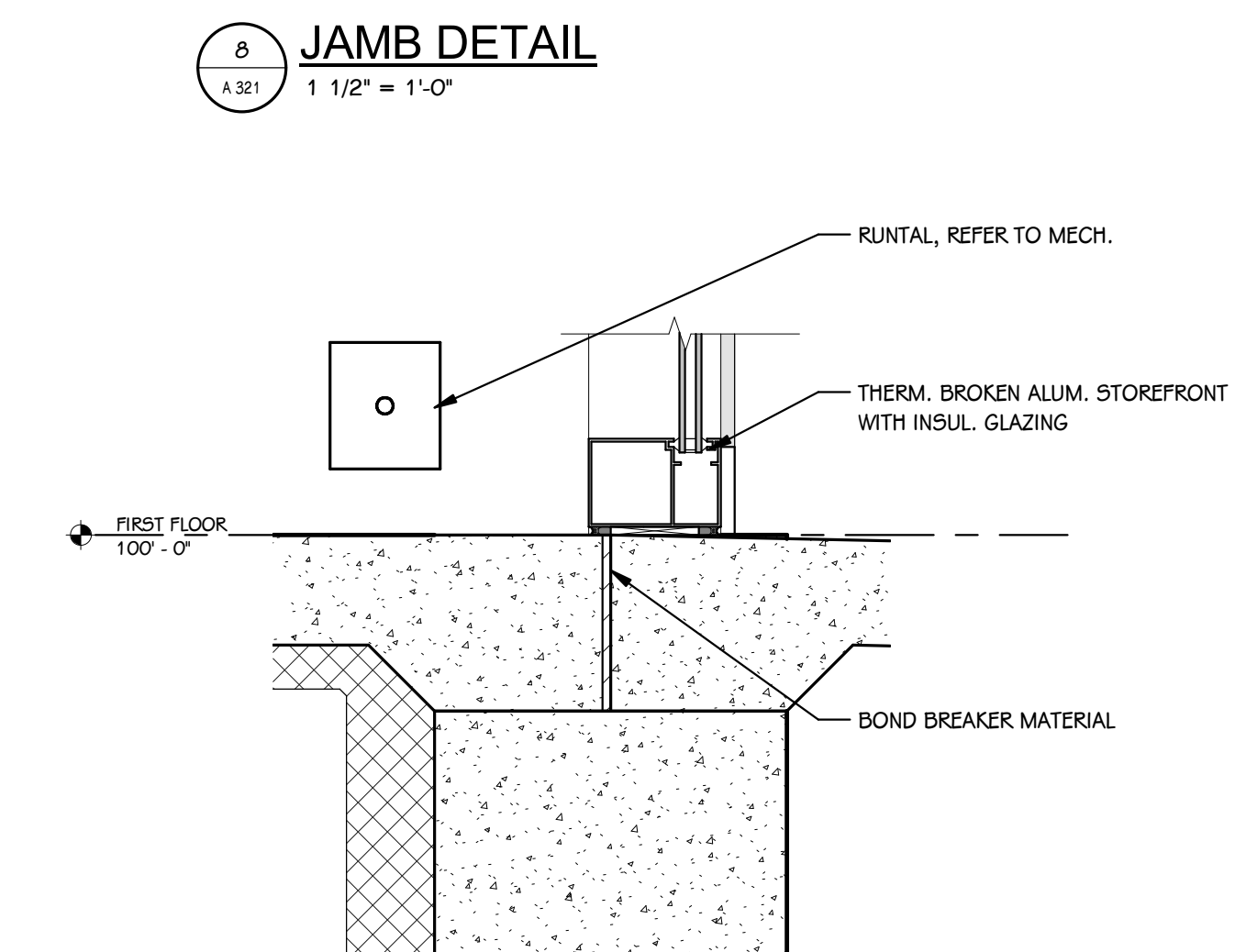
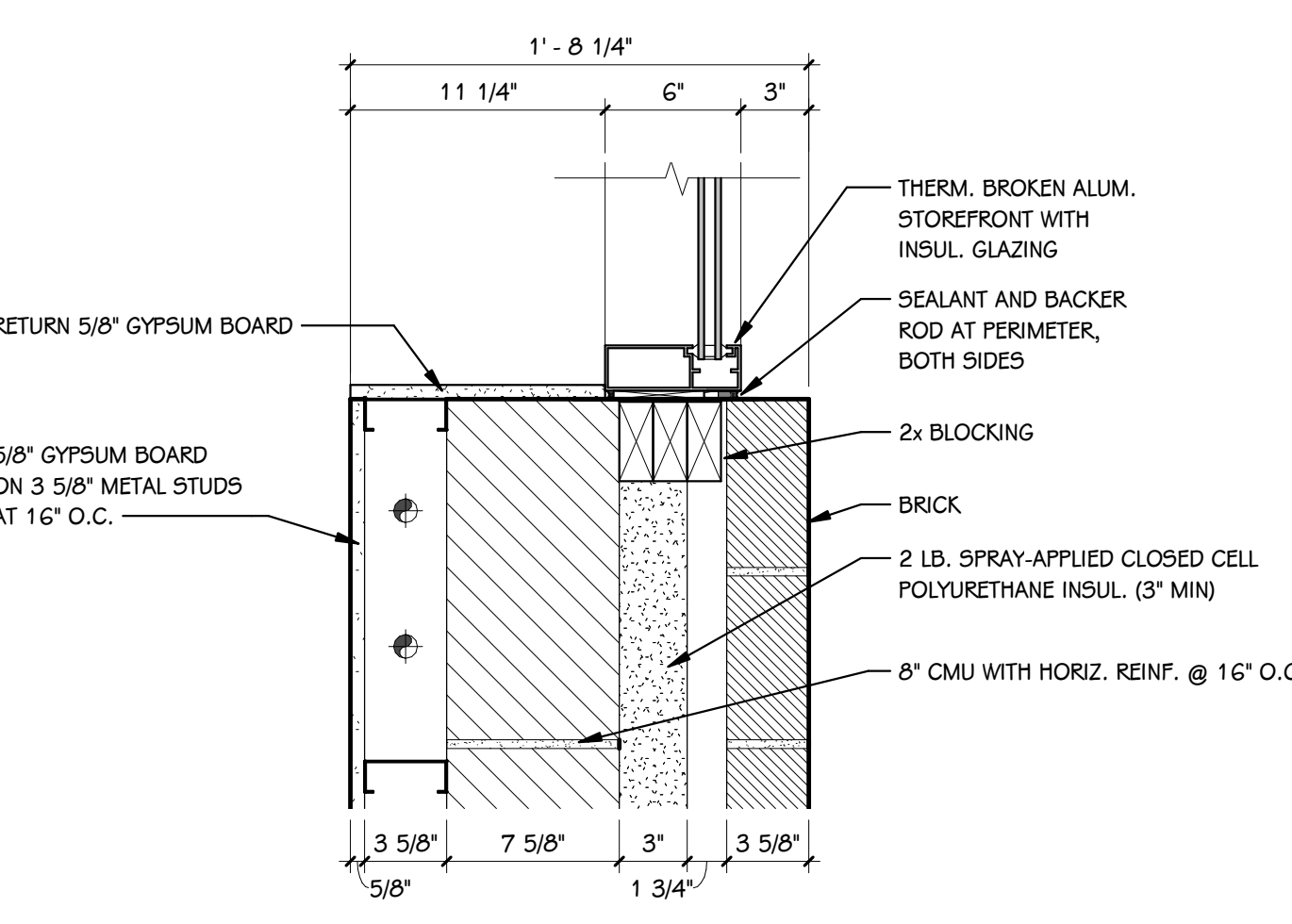
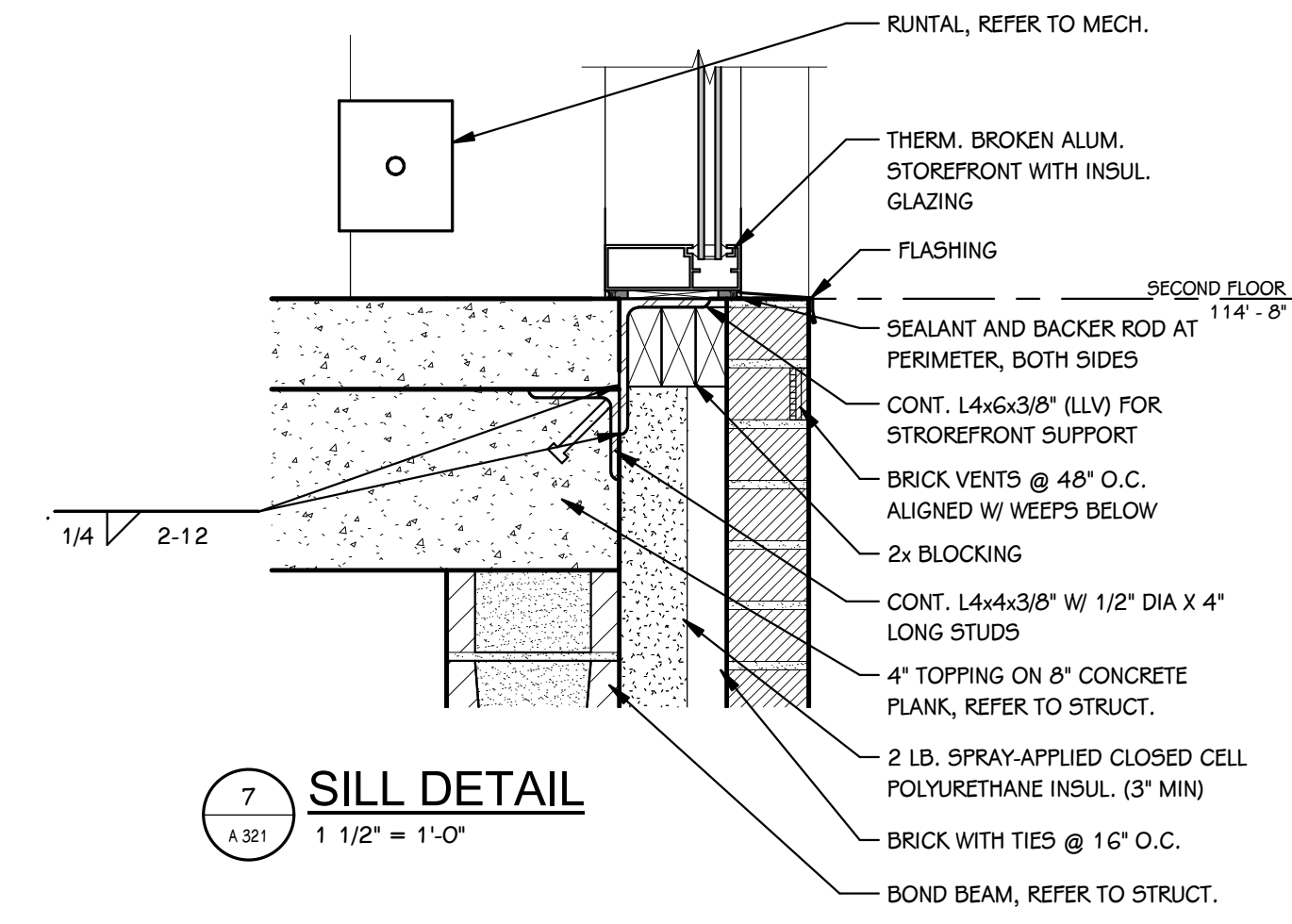
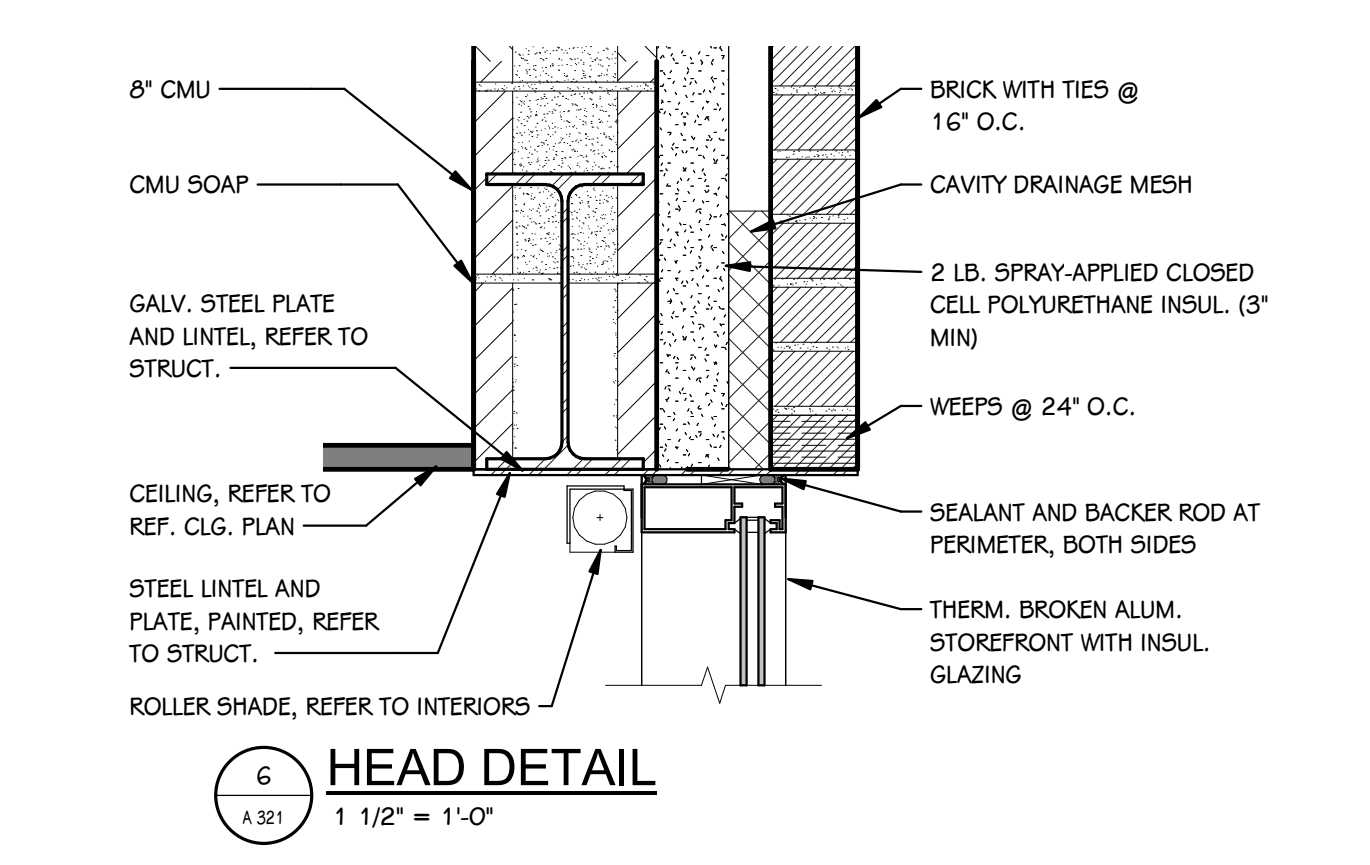
33 WALL DETAIL
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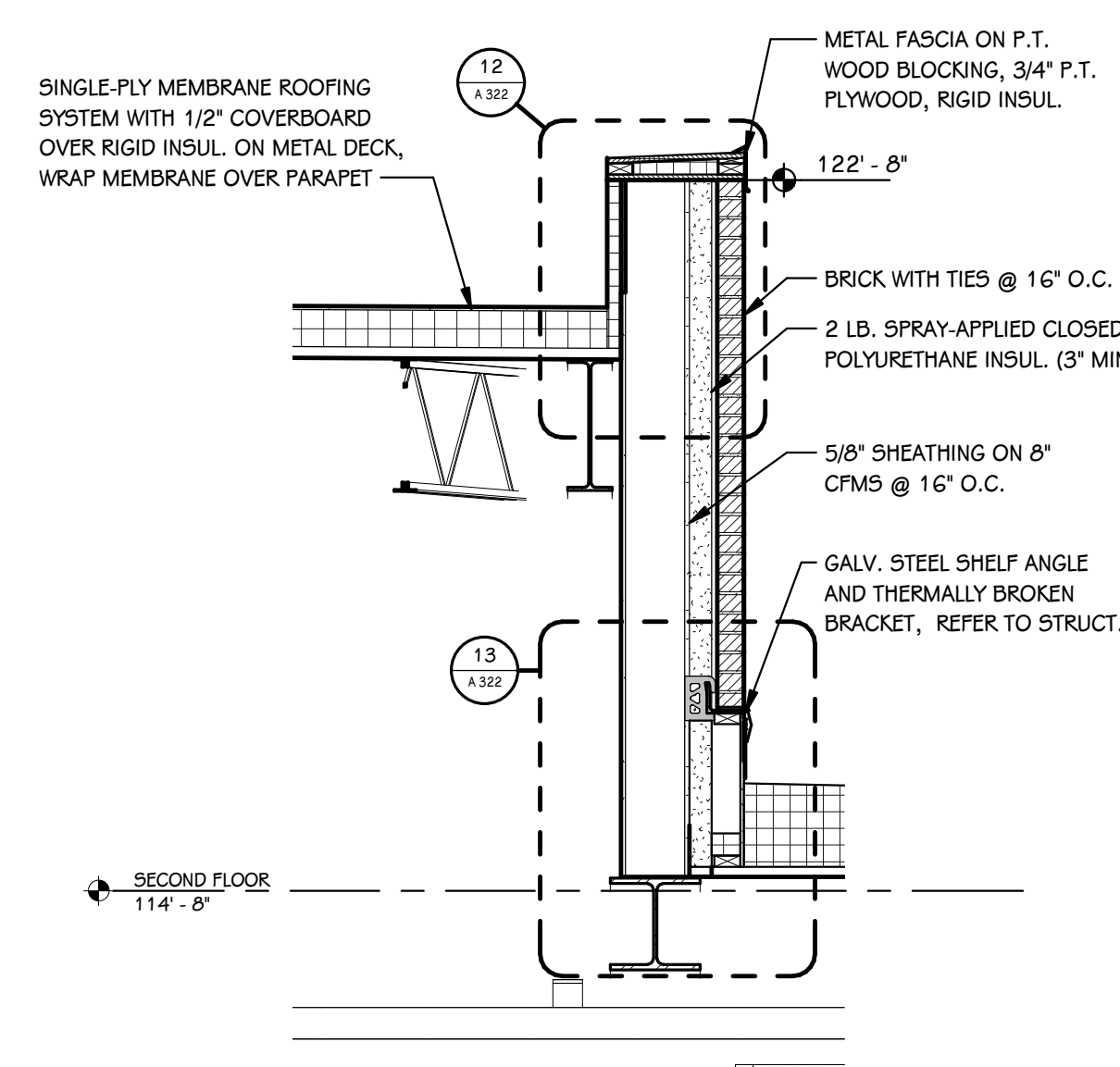


34 WALL DETAIL
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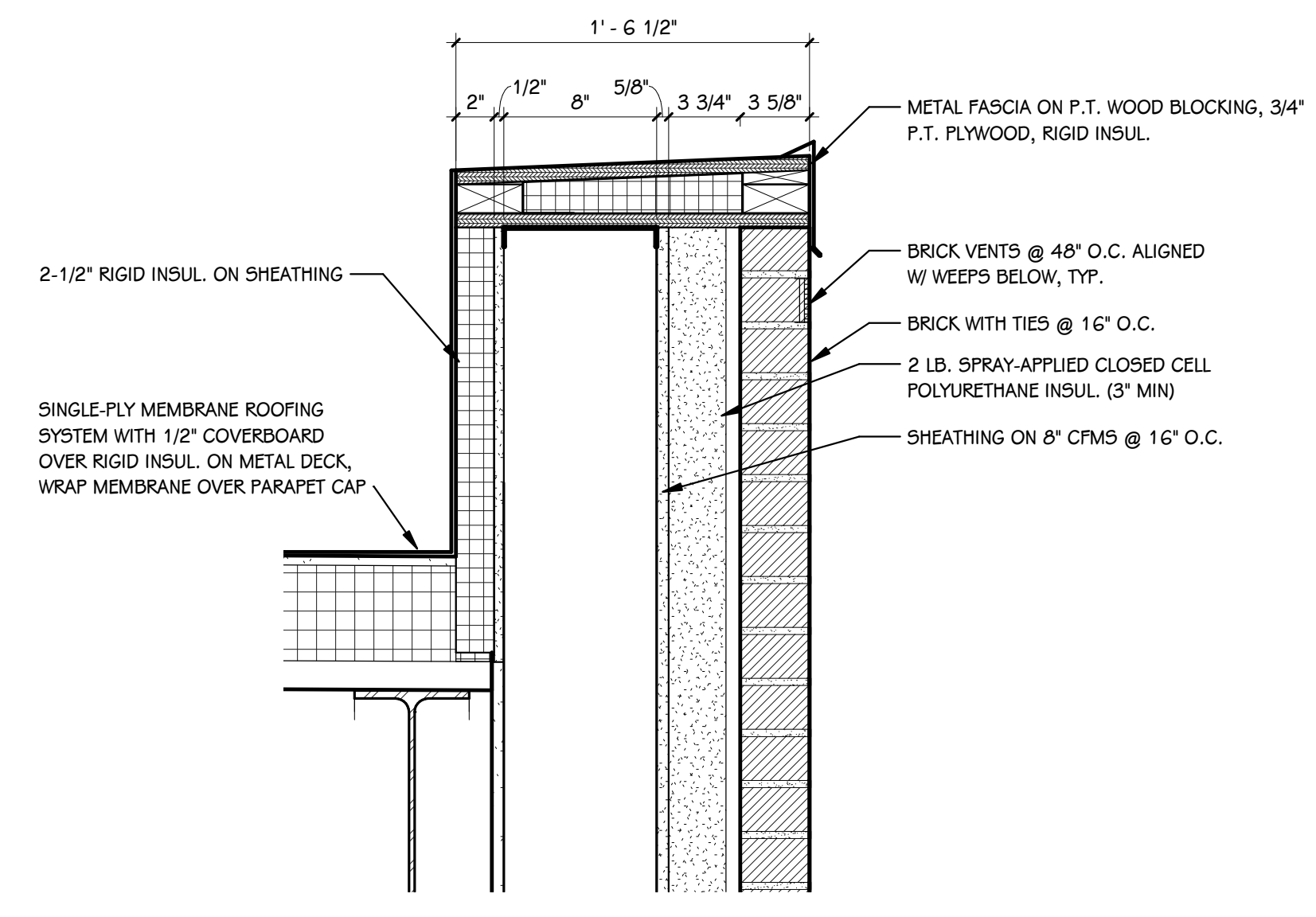


35 WALL DETAIL
A 325 1/2" = 1'-0"

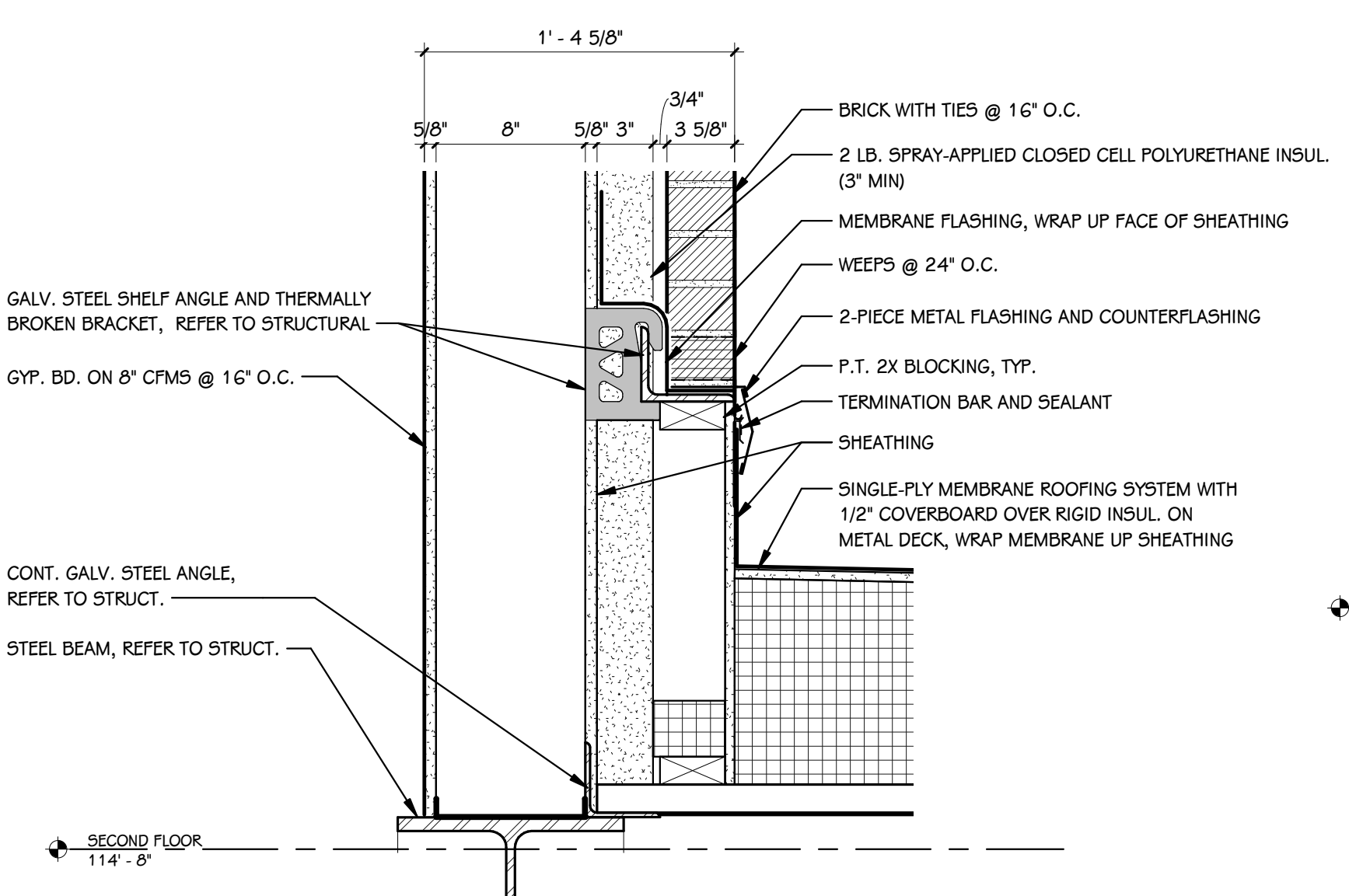




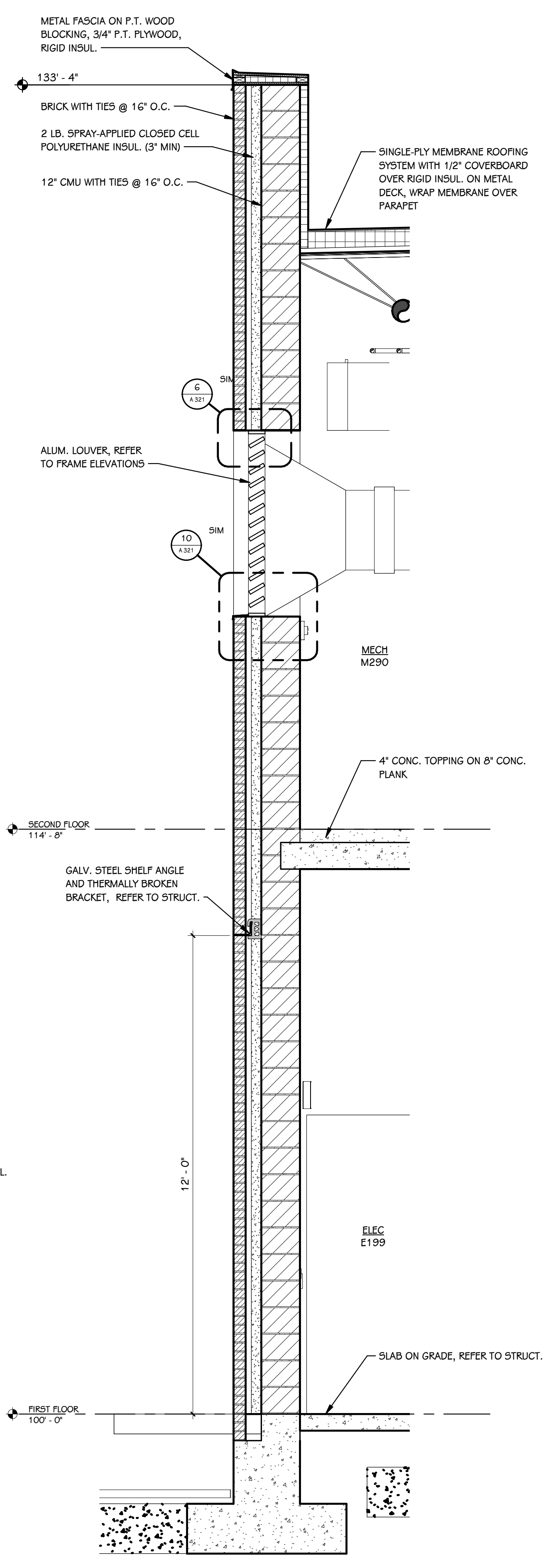
11 WALL SECTION
 1/2" = 1'-0"



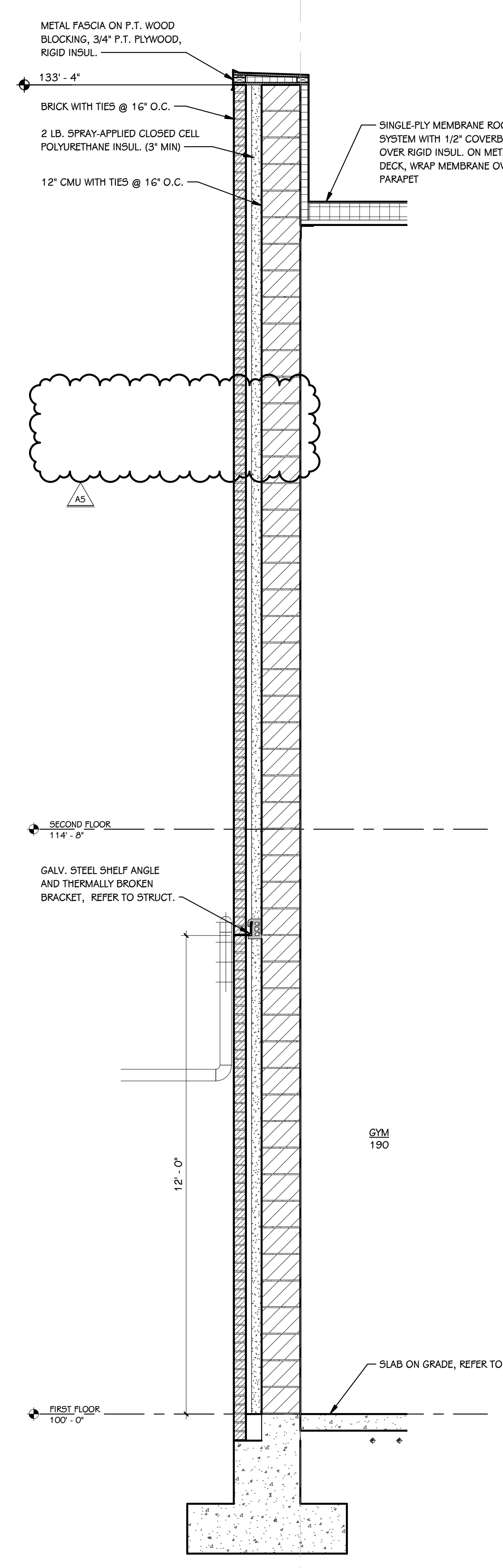
12 WALL DETAIL
 1/2" = 1'-0"



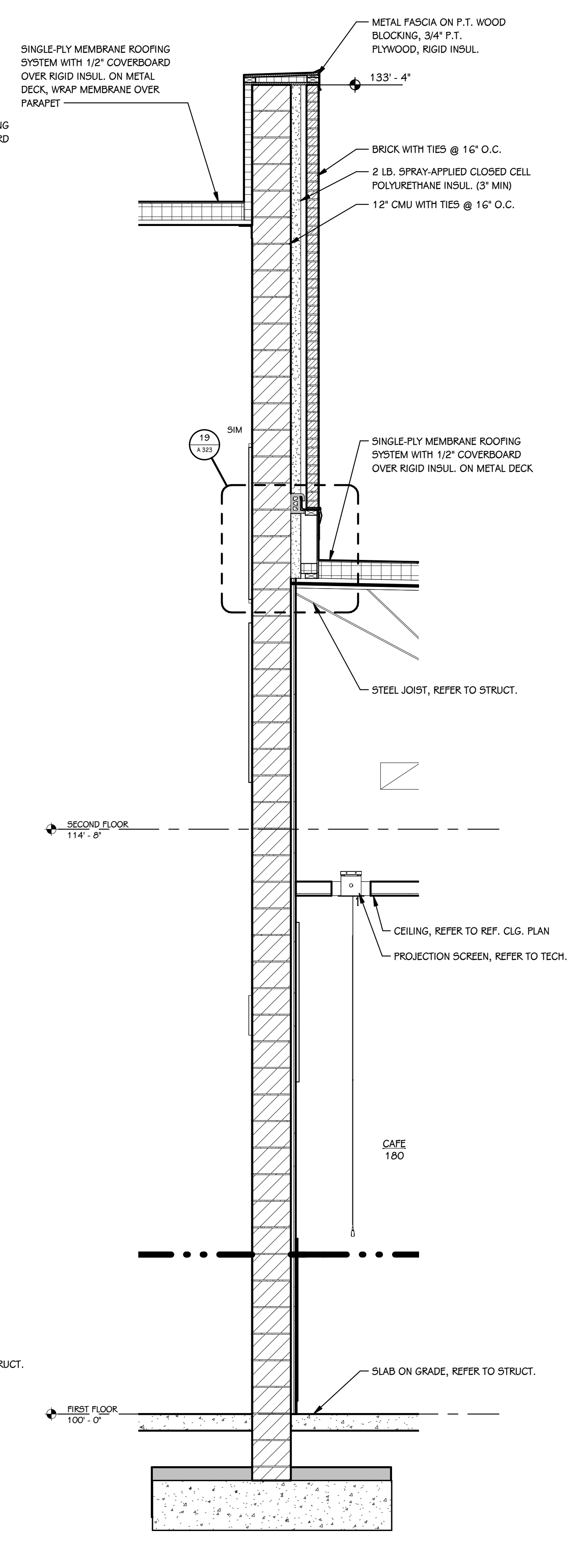
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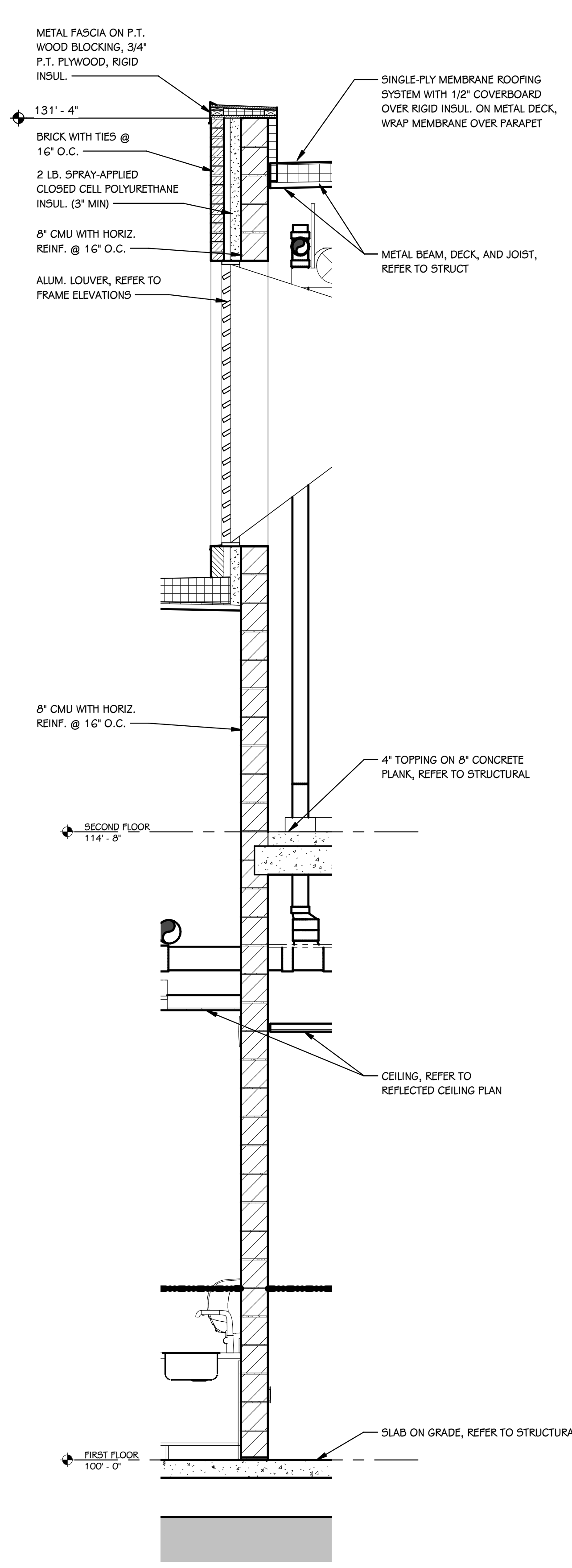
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 1/2" = 1'-0"



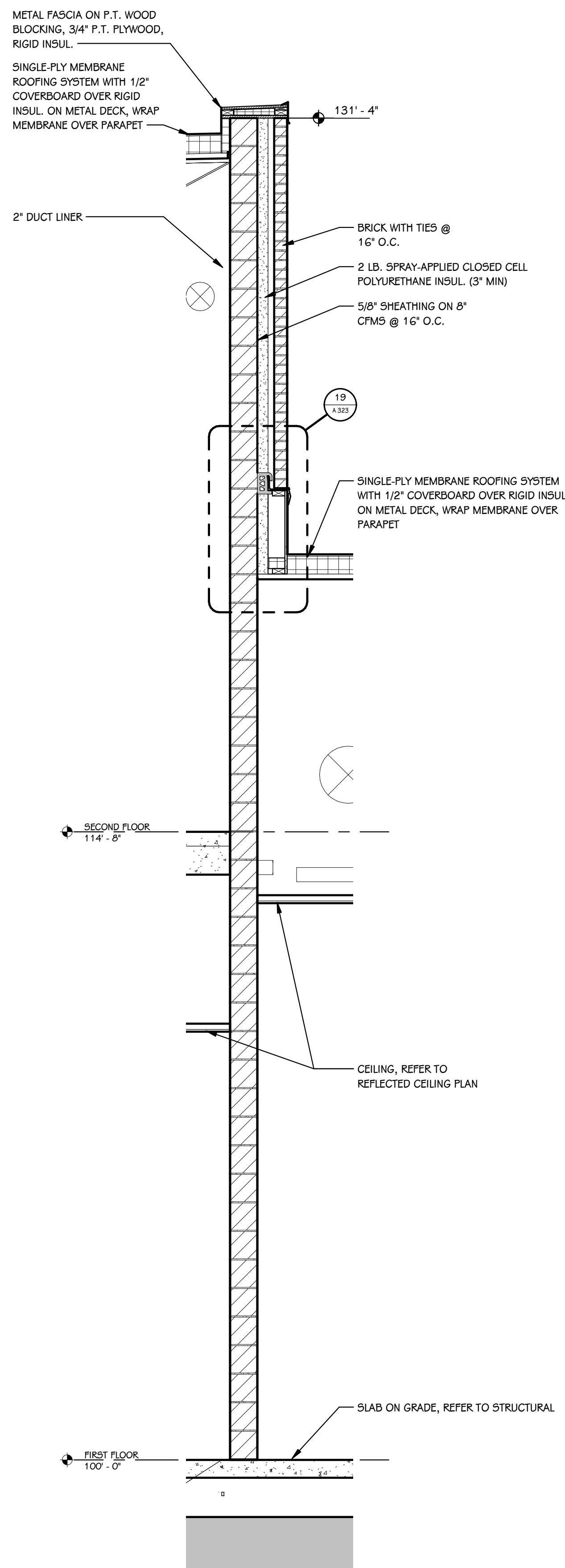
15 WALL SECTION
 1/2" = 1'-0"



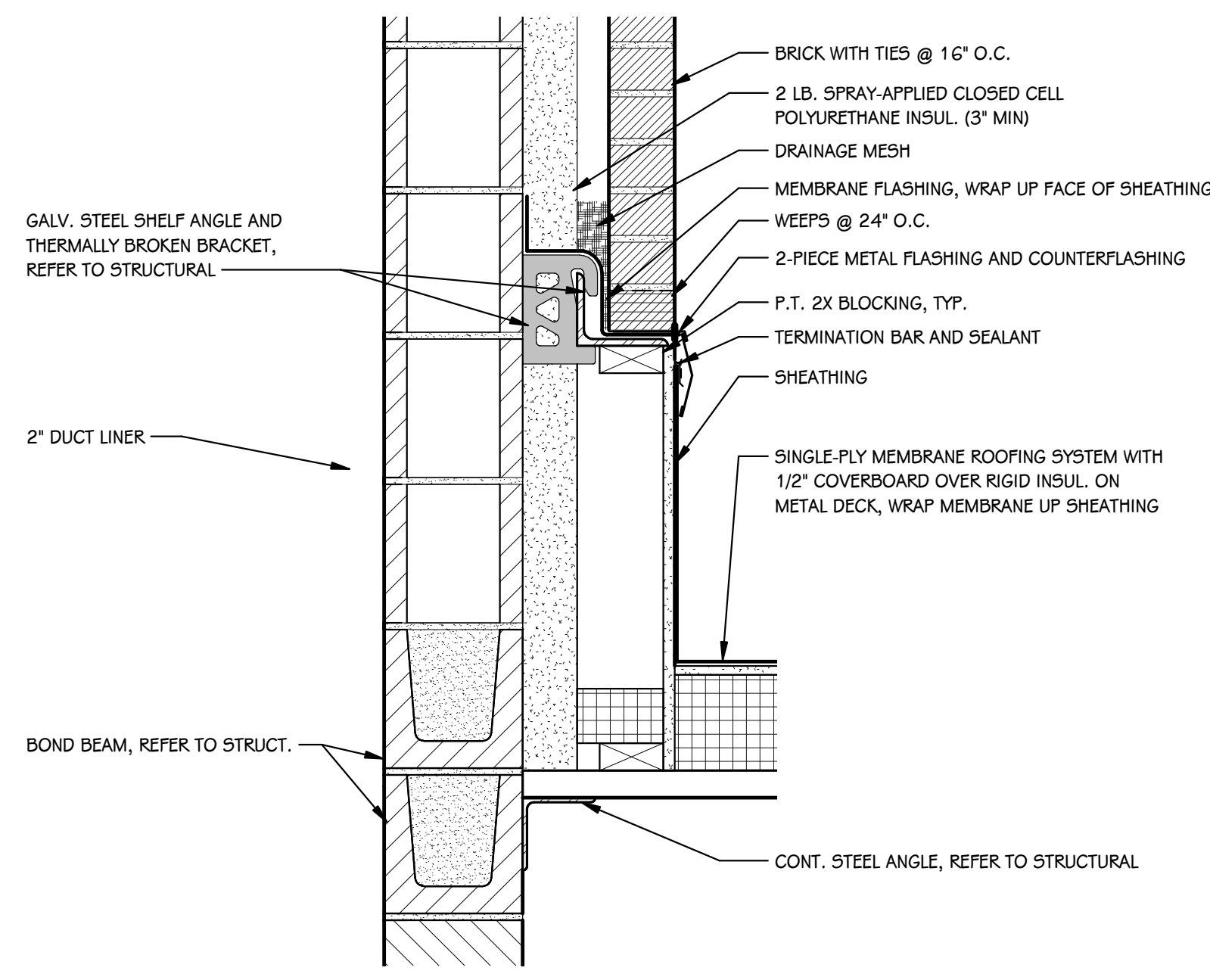
16 WALL SECTION
 1/2" = 1'-0"



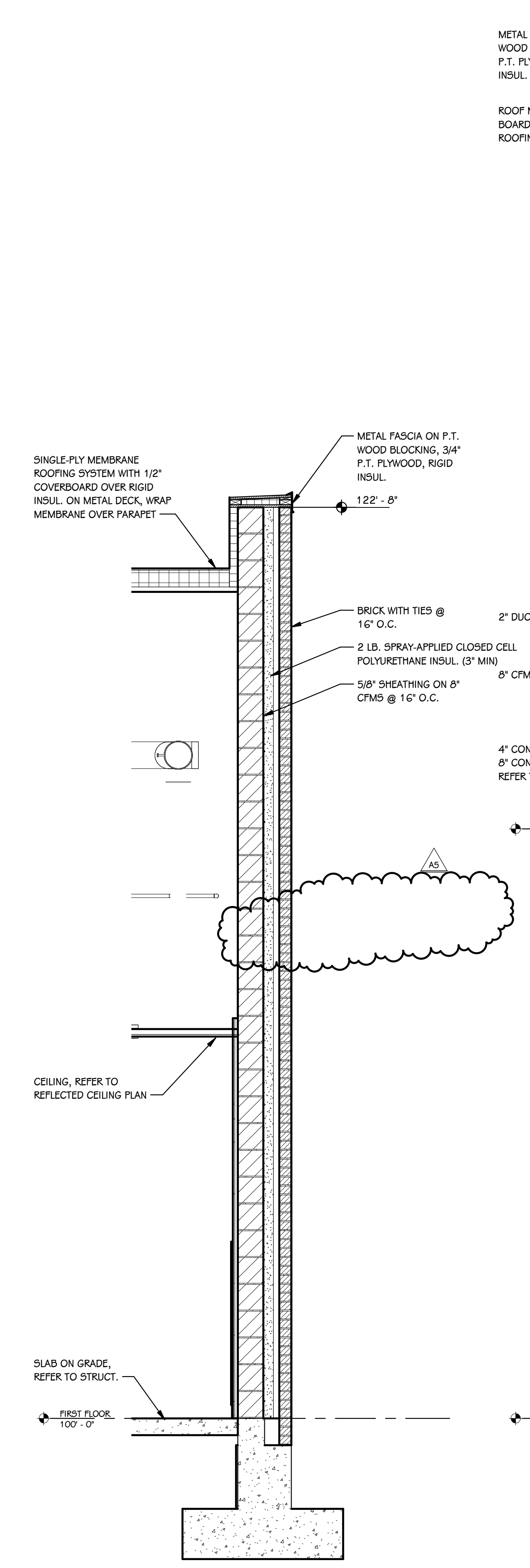
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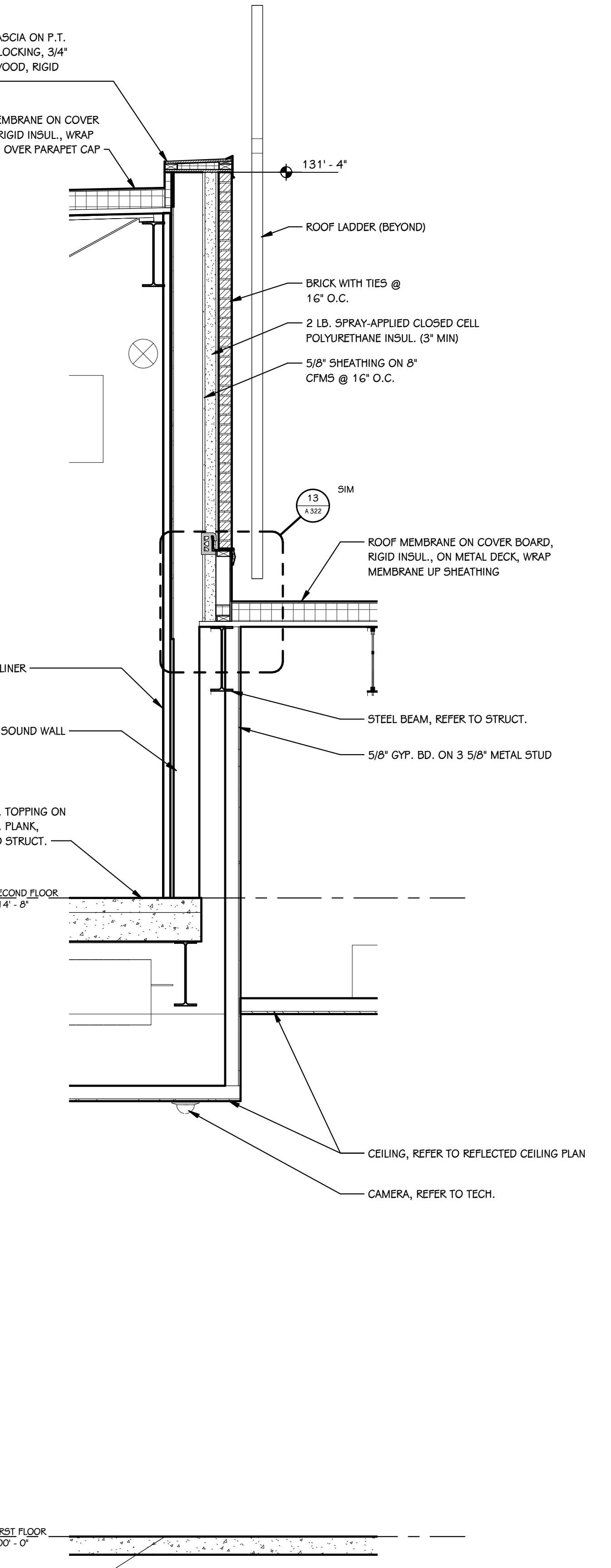
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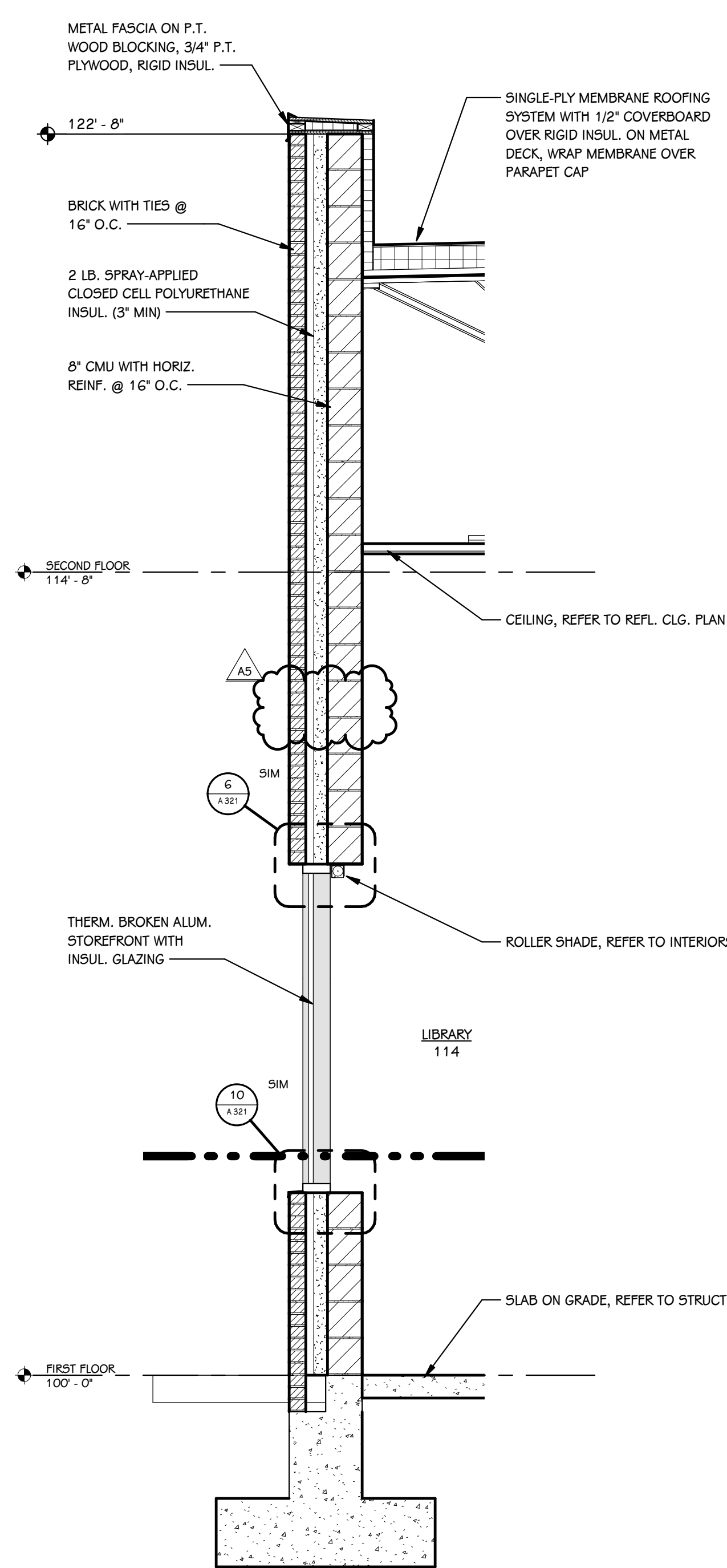
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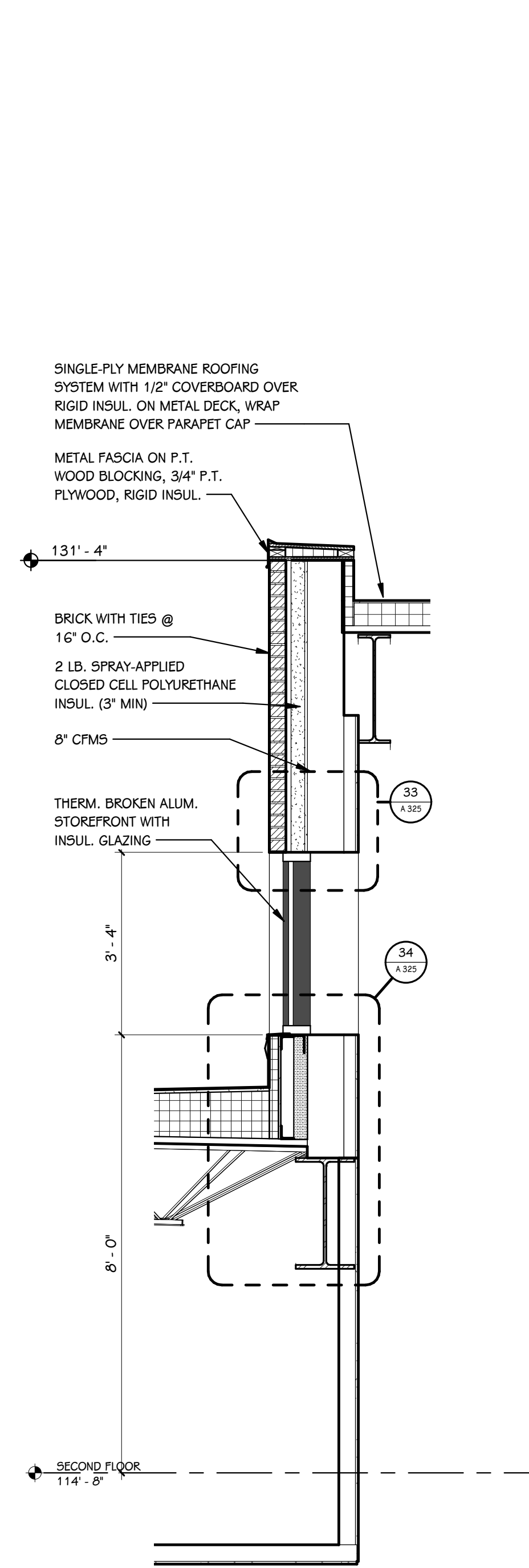
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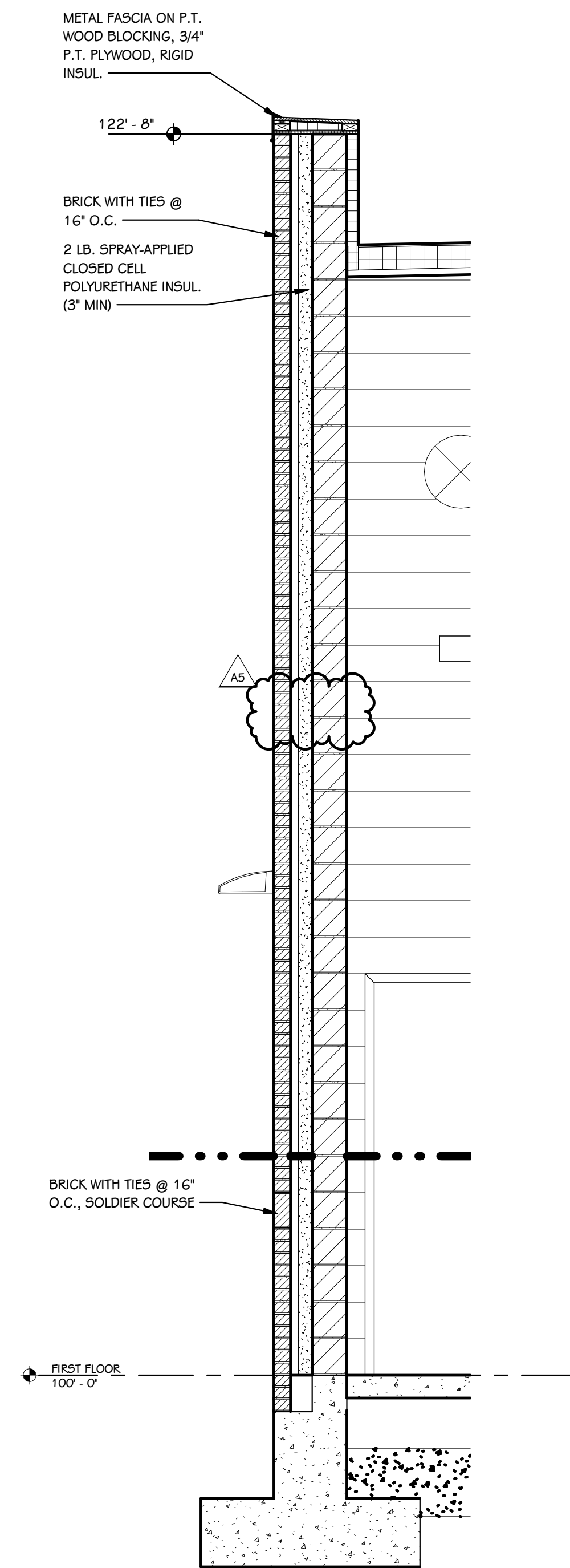
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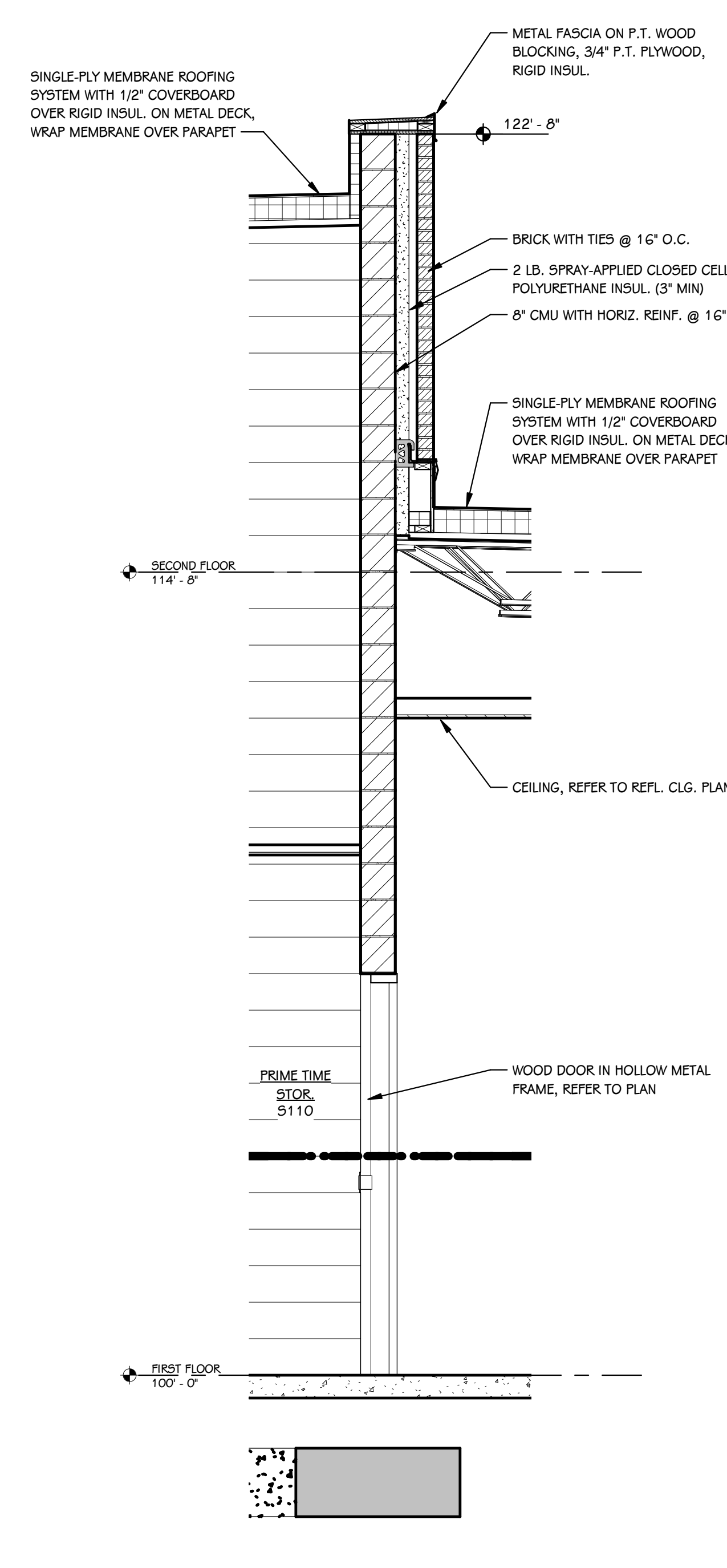
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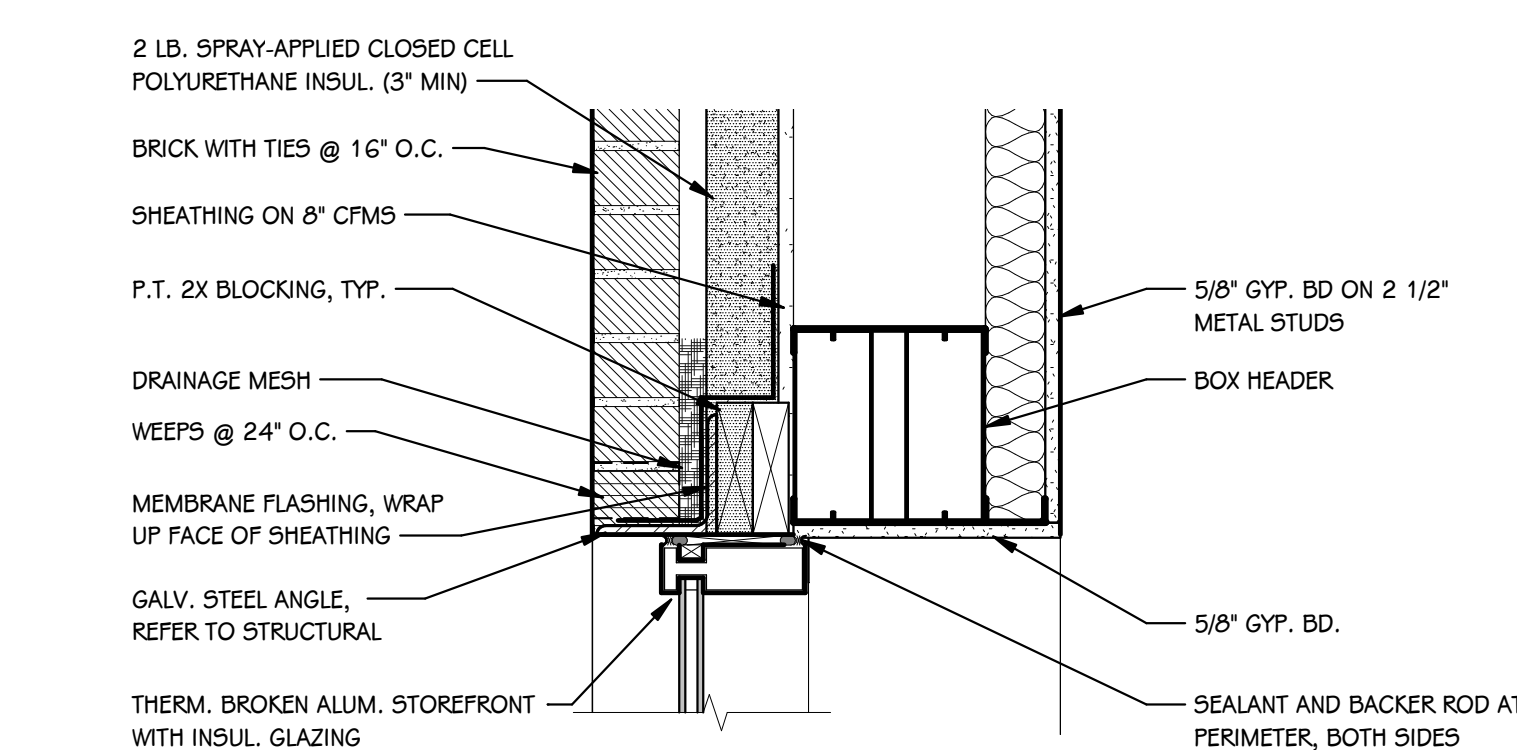
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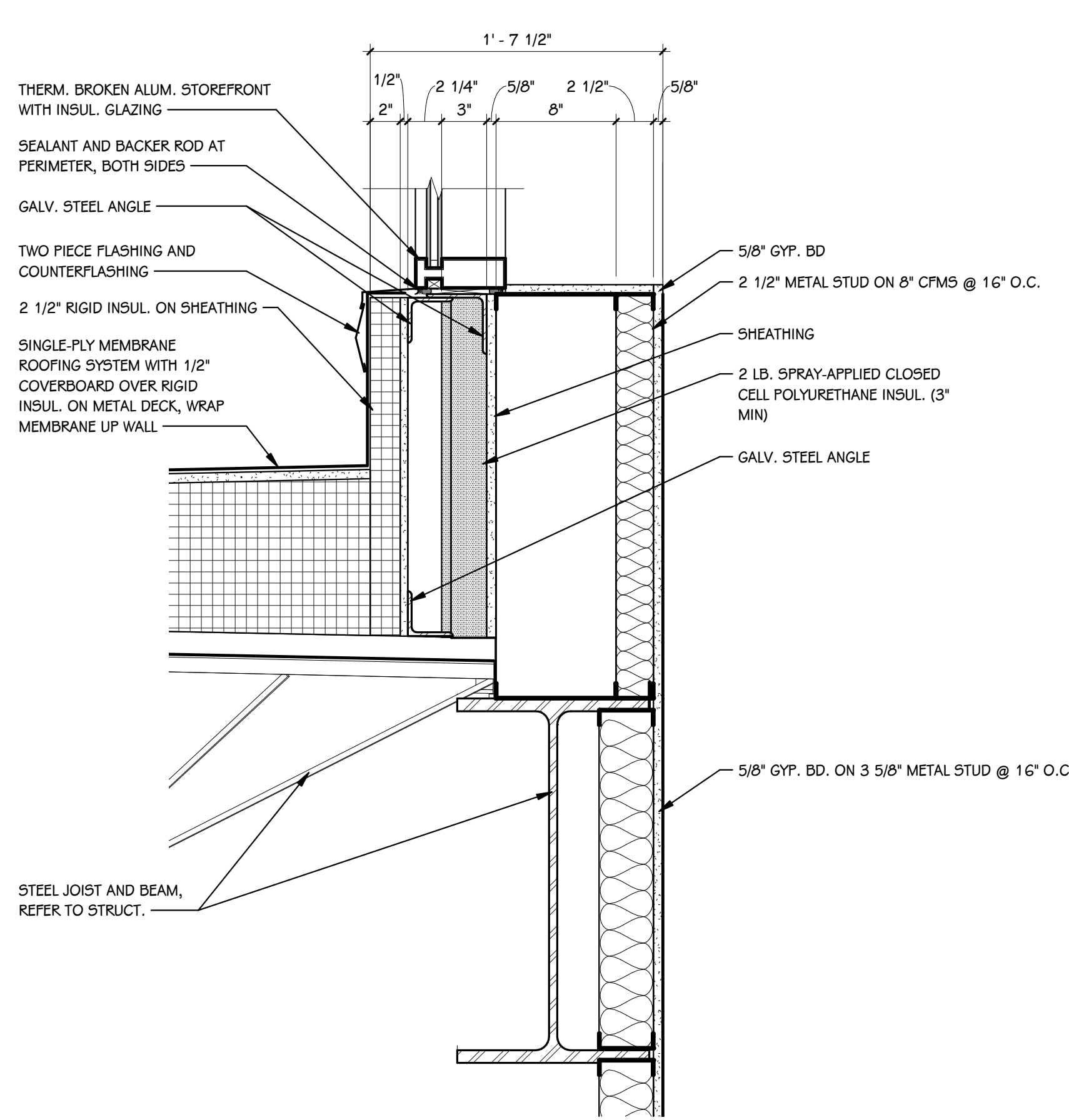
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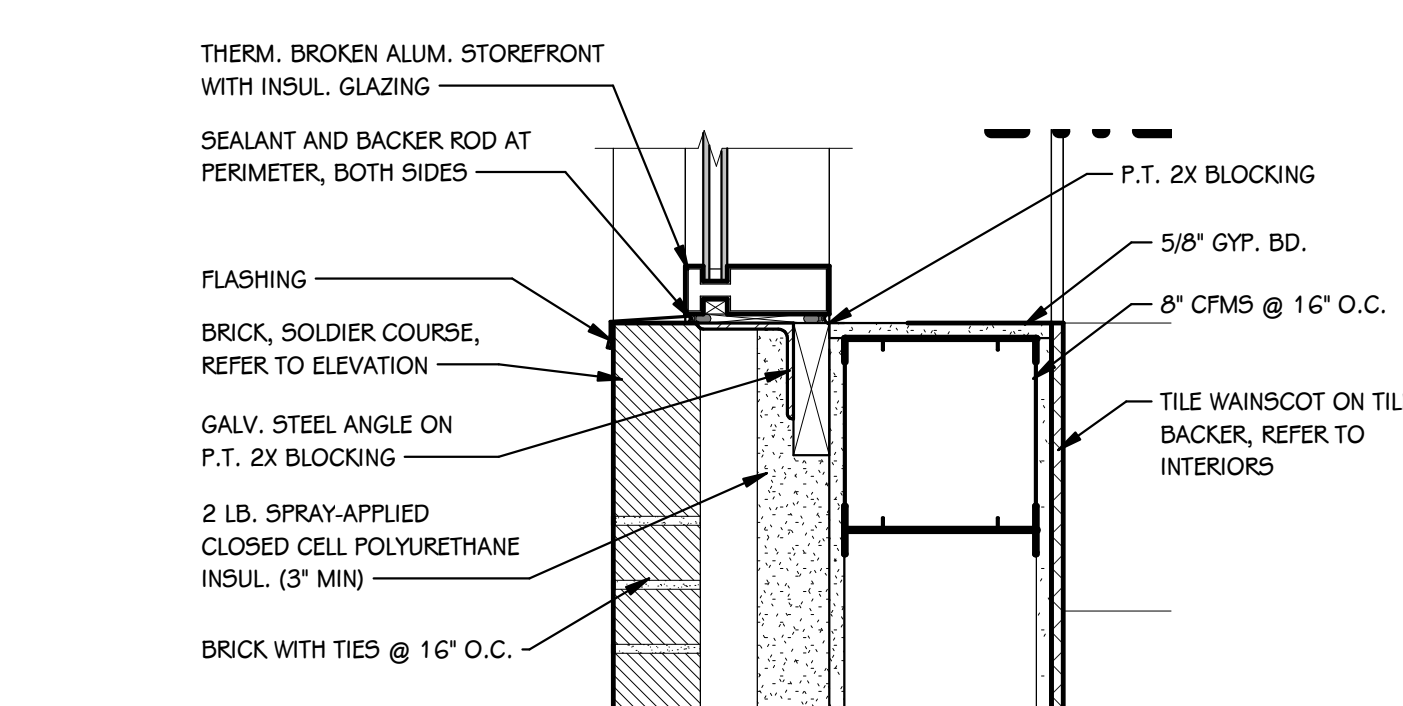
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