

# City of Bowman

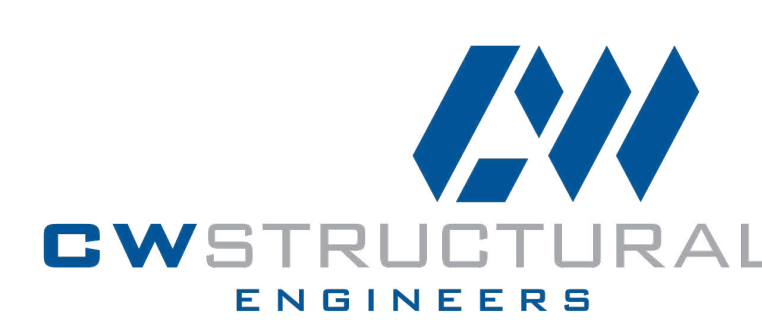

# Bowman City Hall Roof Replacement

## Bowman, North Dakota

Contract Documents

February 11, 2026

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<p><u>COVER SHEET</u></p> <p><u>ARCHITECTURAL</u></p> <ul style="list-style-type: none"> <li>A101 Main Floor and Partial Main Floor Plans</li> <li>A102 Roof Demolition and Roof Plans</li> <li>A103 Roof Details</li> <li>A201 Exterior Elevations</li> <li>A301 Building Sections</li> <li>A302 Wall Sections</li> <li>A303 Wall Sections</li> <li>A901 Main Floor &amp; Partial Reflected Ceiling &amp; Partial Plans</li> </ul> <p><u>STRUCTURAL</u></p> <ul style="list-style-type: none"> <li>S001 General Structural Notes</li> <li>S002 Special Inspection Tables</li> <li>S101 Alternate Canopy Foundation Plan &amp; Details</li> <li>S201 Existing/New Roof Overbuild Framing Plan</li> <li>S301 Roof Framing Details</li> <li>A302 Roof Framing Details</li> </ul>		<p>CITY OF BOWMAN 101 1ST ST NE BOWMAN, ND 58623</p> 	<p style="font-size: small;">© 2026 All Rights Reserved</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Contract Documents</p>

			<b>STRUCTURAL</b>	<b>ARCHITECT</b>	<b>OWNER</b>
			 <p><b>CWSTRUCTURAL</b></p> <p>100 E. CALGARY AVENUE, SUITE 2 BISMARCK, ND 58503 CONTACT: CHRIS WENTZ, PE PHONE: (701) 221-3286</p>	 <p><b>J2 STUDIO</b></p> <p>919 SOUTH 7TH STREET, SUITE 400 BISMARCK, ND 58504 CONTACT: JAMES DEVINE, AIA, LEED AP PHONE: (701) 255-1622</p>	<p><b>CITY OF BOWMAN</b></p> <p>101 1ST ST NE BOWMAN, ND 58623 CONTACT: PEGGY ALLEN, FINANCIAL AUDITOR PHONE: (701) 523-3309</p>

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## Contract Documents

February 11, 2026

J2 Project No. J22528



# City of Bowman Bowman City Hall Roof Replacement Bowman, North Dakota



**studio**  
architecture + design, pc

919 South 7th Street, Suite 400  
Bismarck, ND 58504  
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Main Floor &  
Partial Main  
Floor Plans

# A101

### LEGEND:

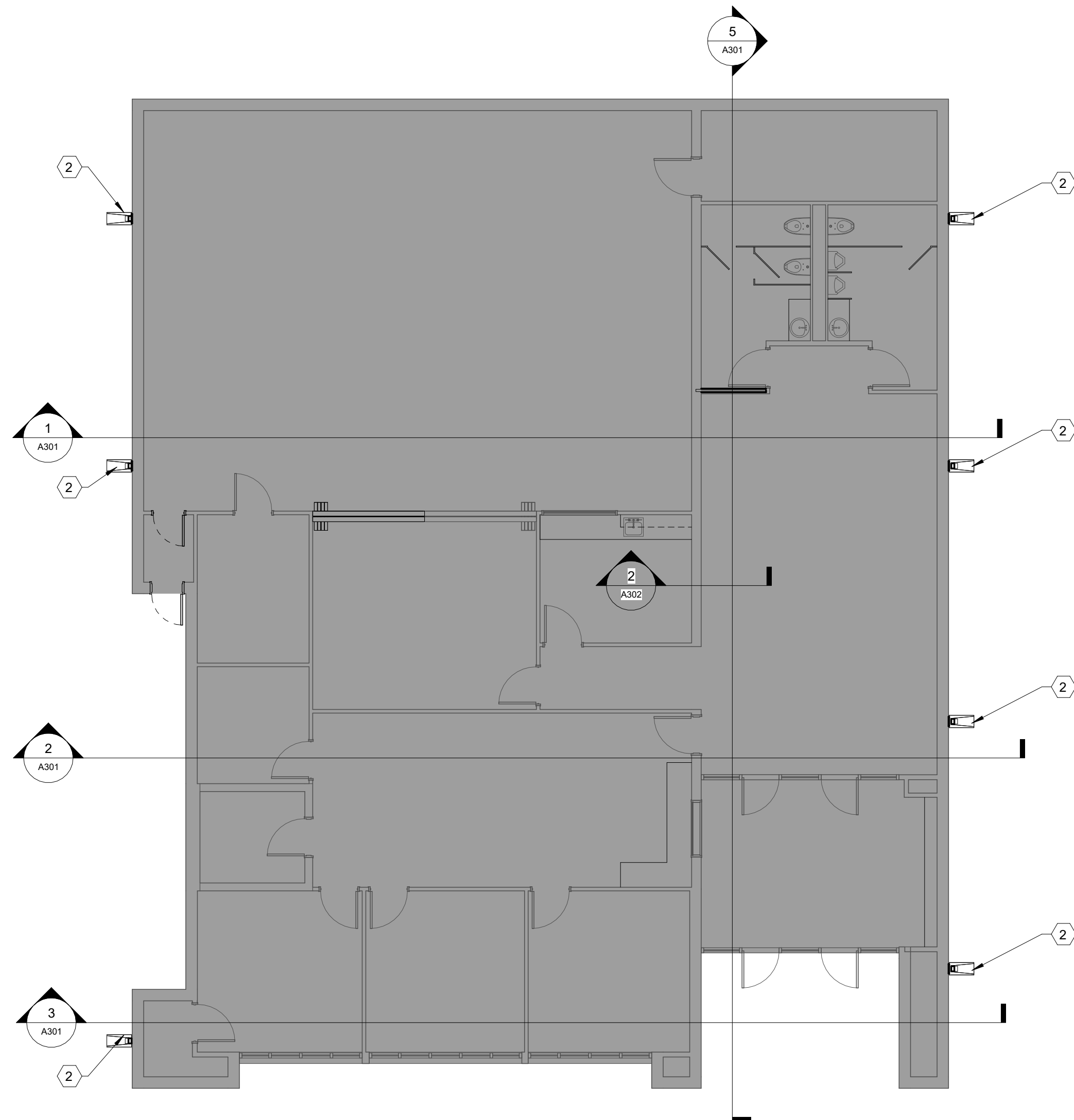
<b>OFFICE</b>	ROOM NAMES
101	ROOM NAME
	ROOM NUMBER
<b>BUILDING ELEVATIONS / SECTIONS</b>	ELEVATION NUMBER
1	SHEET NUMBER
A201	
<b>DOORS</b>	DOOR NUMBER
101	DOOR LETTER
A	REFER TO SHEET A601 FOR SCHEDULE
<b>WINDOWS</b>	WINDOW TYPE
1	REFER TO SHEET A601 FOR SCHEDULE
<b>WALL TYPES</b>	WALL TYPE
A	WALL TYPE NOTE
<b>DETAIL MARK</b>	DETAIL NUMBER
1	SHEET NUMBER
A601	
<b>INTERIOR ELEVATION</b>	ELEVATION NUMBER
1	SHEET NUMBER
A701	
<b>EQUIPMENT</b>	EQUIPMENT NUMBER
T1	
<b>DEMOLITION KEYNOTE</b>	ITEM NUMBER - REFER TO SPECIFIC DEMOLITION NOTES
1	
<b>PLAN KEYNOTE</b>	ITEM NUMBER - REFER TO SPECIFIC NOTES
1	

### GENERAL PLAN NOTES:

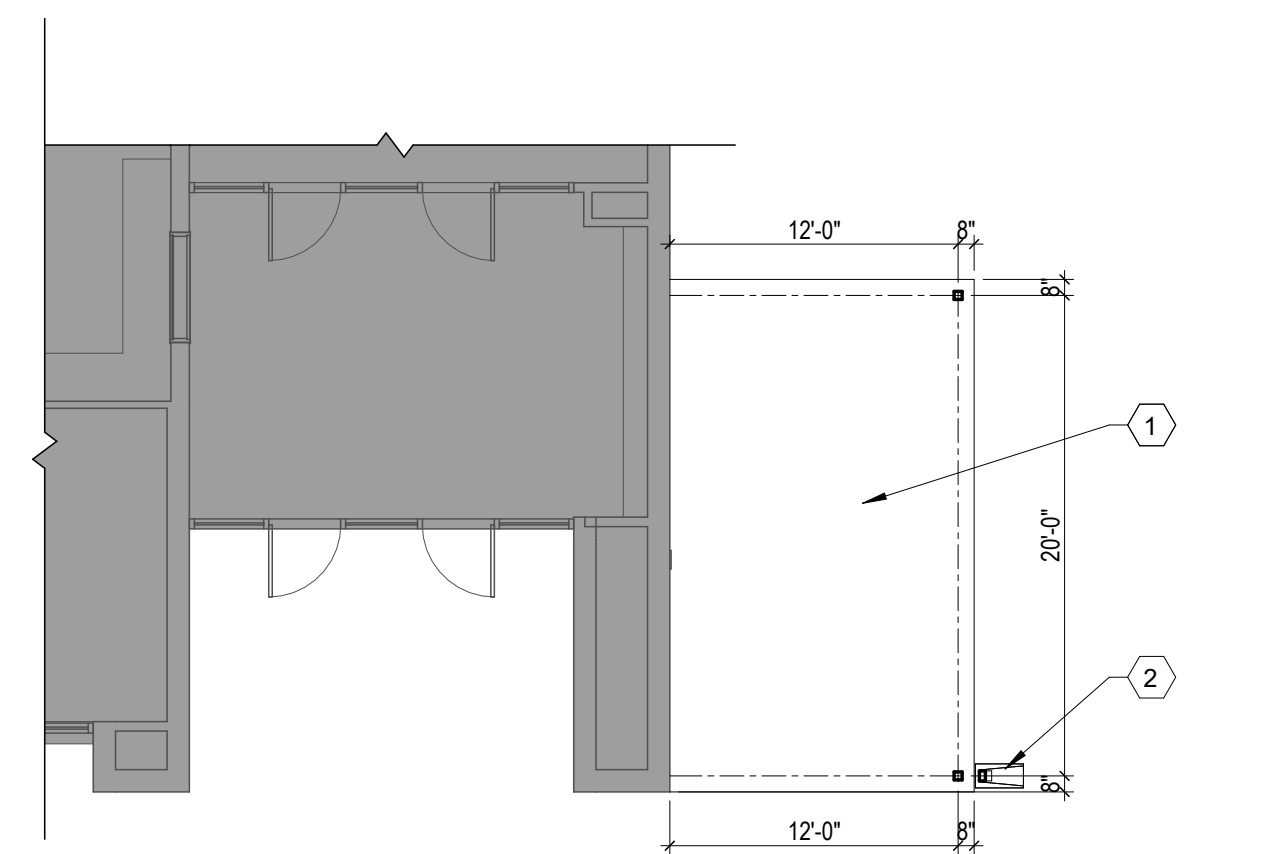
1. GENERAL CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER.
2. GENERAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
3. GENERAL CONTRACTOR TO COORDINATE OWNER PROVIDED EQUIPMENT INSTALLATION.
4. ALL WORK SHALL MEET ALL APPLICABLE BUILDING CODES AND REQUIREMENTS.

### SPECIFIC PLAN NOTES:

- 1 CONCRETE SLAB; REFER TO STRUCTURAL
- 2 SPLASHBLOCK; REFER TO DETAIL 1/A103



1 Main Floor Renovation Plan  
Scale: 1/8" = 1'-0"

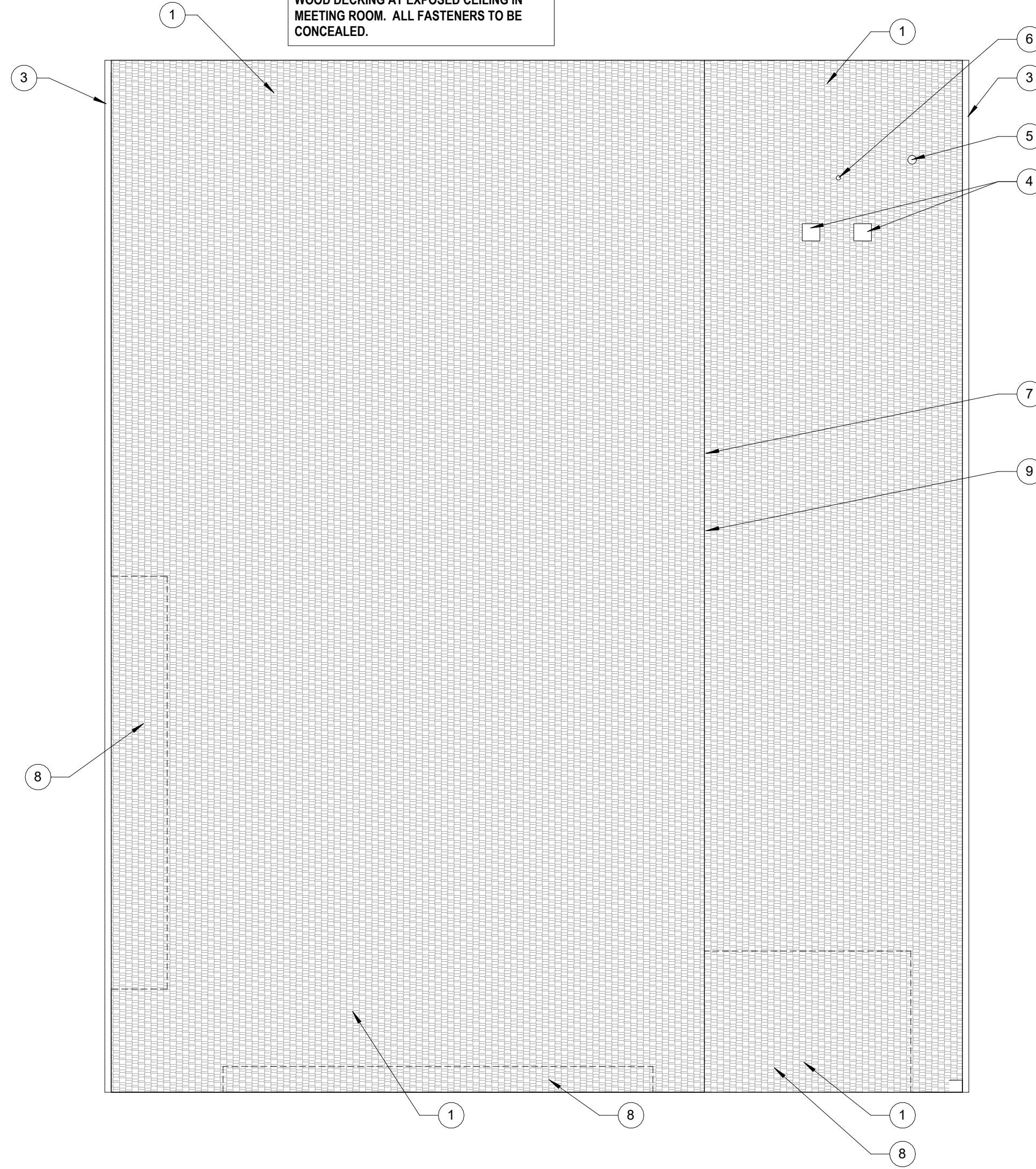


2 Partial Main Floor Renovation Plan (Alt. Bid)  
Scale: 1/8" = 1'-0"

### NOTE:

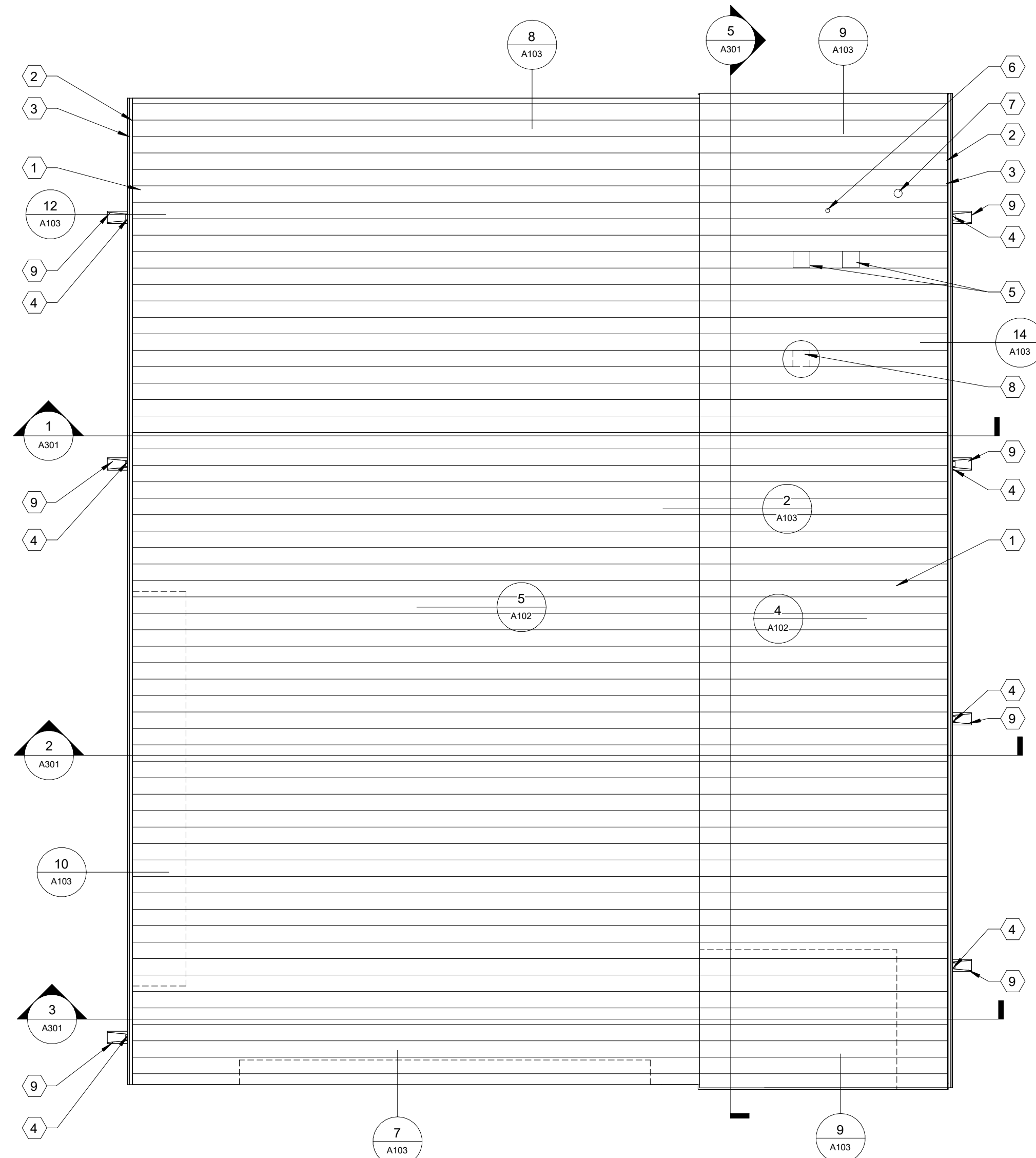
INTERIOR FLOOR PLAN SHOWN FOR REFERENCE ONLY

NOTE:  
DO NOT SCREW THROUGH EXISTING T&G WOOD DECKING AT EXPOSED CEILING IN MEETING ROOM. ALL FASTENERS TO BE CONCEALED.

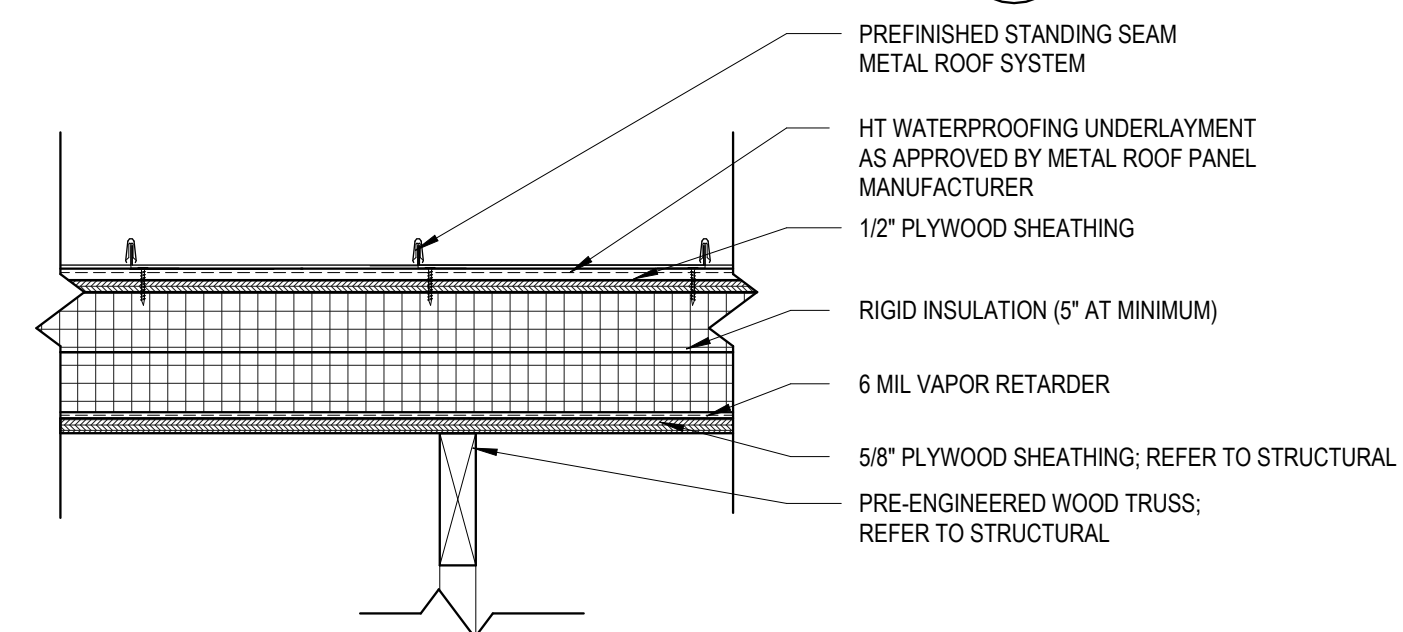


1 Roof Demolition Plan  
Scale: 1/8" = 1'-0"

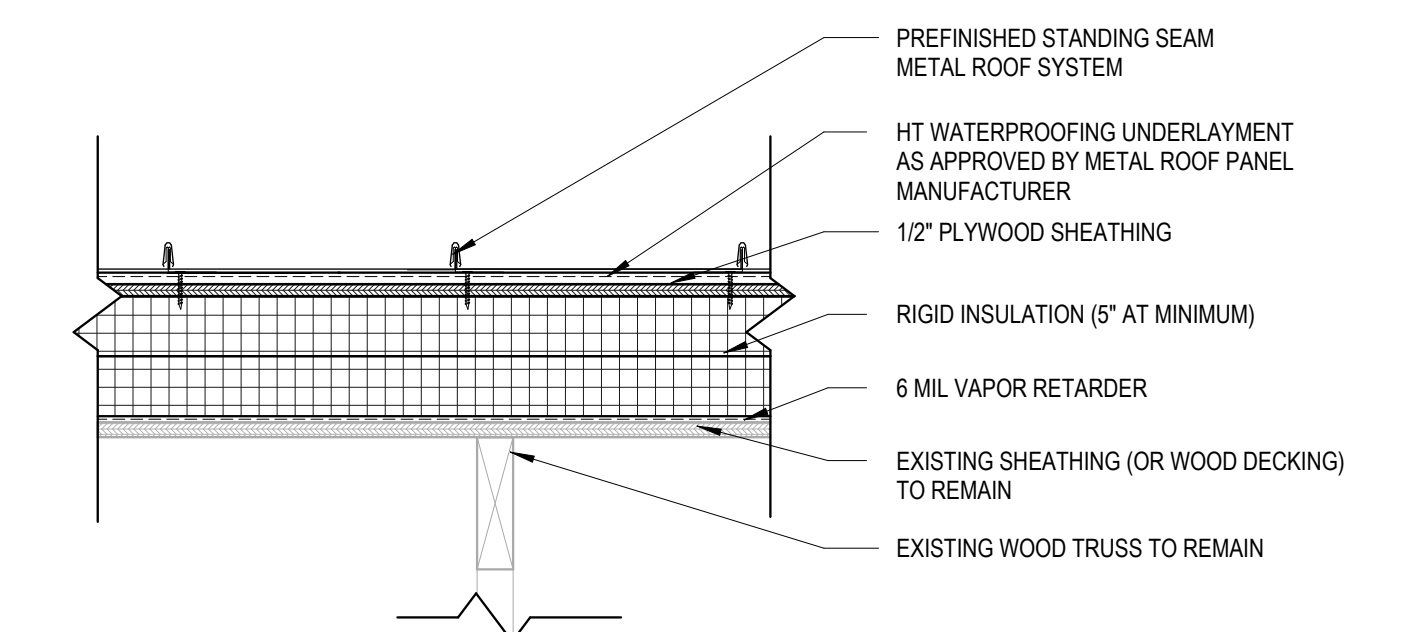
NOTE:  
EXISTING DRAWINGS INDICATE A CONCEALED GUTTER. G.C. TO REMOVE CONCEALED GUTTER, IF EXISTS AND ALL ADDITIONAL BLOCKING/NAILERS AND FRAMING FOR CONCEALED SYSTEM AND REPLACE WITH NEW NAILERS. EXISTING SHINGLES, ROOF INSULATION AND VAPOR RETARDER AND/OR BUILDING FELT SHALL ALSO BE REMOVED PRIOR TO RE-ROOFING.



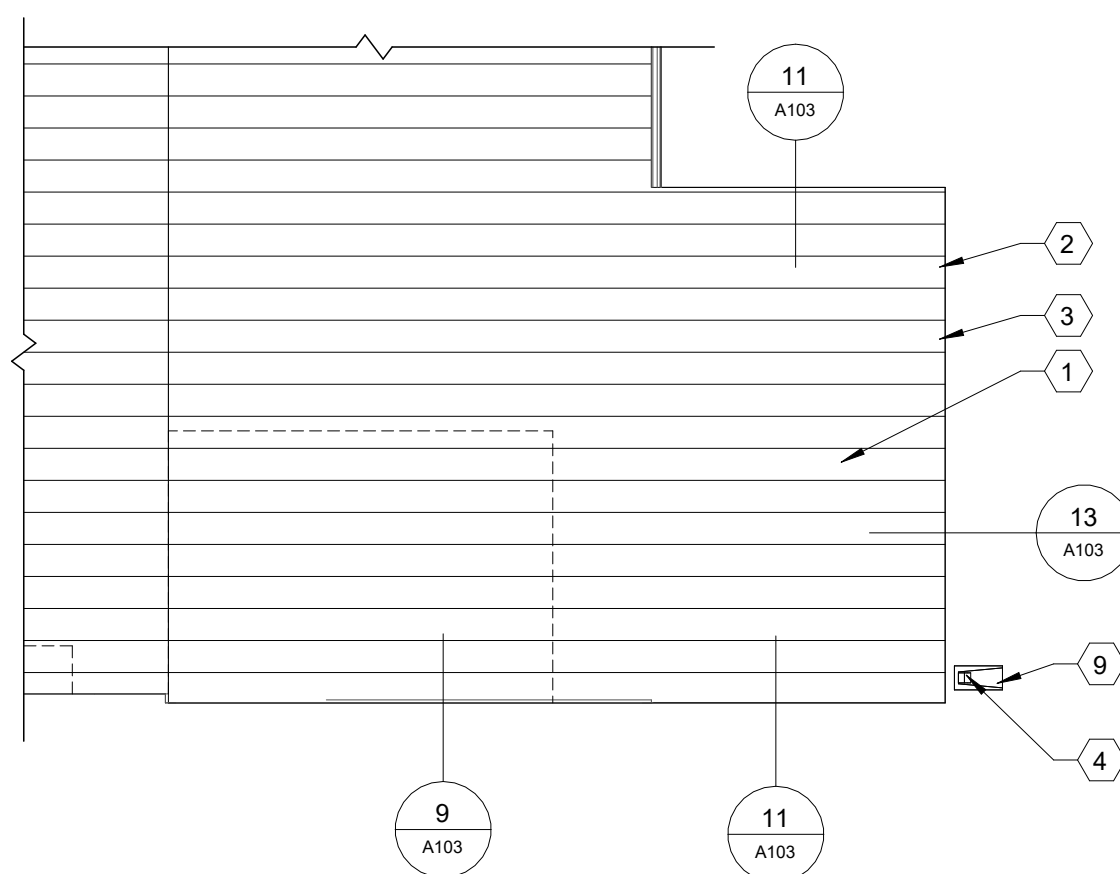
2 Roof Plan  
Scale: 1/8" = 1'-0"



4 Typical Roof Section at Standing Seam Roof  
Scale: 1 1/2" = 1'-0"



5 Typical Existing Roof Section at Standing Seam Roof  
Scale: 1 1/2" = 1'-0"



3 Partial Roof Plan (Alternate Bid)  
Scale: 1/8" = 1'-0"

**GENERAL ROOF PLAN NOTES:**

- THE FOLLOWING REFERENCES HAVE BEEN USED AS A BASIS OF DESIGN FOR THE ROOFING WORK OF THE PROJECT AND SHALL BE USED BY THE CONTRACTOR TO DETERMINE REQUIREMENTS FOR FABRICATION AND/OR INSTALLATION WHEN NOT SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS:
  - 2021 INTERNATIONAL BUILDING CODE
  - MATERIAL MANUFACTURER'S MOST RECENT PRINTED SPECIFICATIONS AND DETAILS.
  - ALL OTHER APPLICABLE CODES AND REGULATIONS FOR THE CITY OF BOWMAN.
- PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PROVIDE AND INSTALL PROTECTION OVER, UNDER, AND/OR AROUND ALL SERVICE LINES, BUILDING COMPONENTS, SIDEWALKS, PAVEMENT, AND LANDSCAPING WHICH COULD BE DAMAGED OR SOILED WHILE PERFORMING THE WORK OF THE CONTRACT.
- DETAILS IN THE PROJECT DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT.
  - DETAILS NOTED ARE 'TYPICAL' AND IMPLY SIMILAR CONDITIONS TREATED SIMILARLY. MODIFICATIONS TO BE MADE BY THE CONTRACTOR TO ACCOMMODATE MINOR VARIATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL PENETRATION DETAILS PER MANUFACTURER'S STANDARD DETAILS.
- ALL SYSTEMS SHALL BE PER MANUFACTURER'S STANDARDS FOR PRODUCT WARRANTIES. CONTRACTOR TO PROVIDE COMPLETE ROOFING SYSTEM, INCLUDING, BUT NOT LIMITED TO, UNDERLAYMENTS, ICE AND WATER BARRIERS, VAPOR RETARDERS, COVER BOARDS, AND INSULATION.
- MECHANICAL PENETRATIONS: TERMINATE AND FLASH PER ROOFING MANUFACTURER RECOMMENDATIONS.
- PLUMBING PENETRATIONS: TERMINATE AND FLASH PER ROOFING MANUFACTURER RECOMMENDATIONS.

**SPECIFIC DEMOLITION NOTES:**

- REMOVE EXISTING ASPHALT SHINGLES, NAIL BASE, INSULATION IN ITS ENTIRETY TO EXPOSE EXISTING WOOD DECK/WOOD SHEATHING.
- REMOVE EXISTING NAILERS AS REQUIRED FOR NEW FRAMING/ROOFING.
- REMOVE EXISTING GUTTER AND DOWNSPOUT.
- REMOVE EXISTING VENT CAP. EXTEND VENTING TO NEW ROOF AND INSTALL NEW VENT CAP.
- REMOVE EXISTING FLUE AND STORE FOR REINSTALLATION. EXTEND FLUE TO NEW ROOF.
- REMOVE EXISTING FLASHING AT VENT THROUGH ROOF. EXTEND VENT TO NEW ROOF.
- REMOVE EXISTING EXHAUST LOUVER ON FACE OF WALL. EXTEND TO NEW ROOF AND PROVIDE NEW ROOFTOP EXHAUST LOUVER.
- REMOVE EXISTING SOFFIT LIGHTS. ELECTRICAL BOXES AND WIRING TO REMAIN. REPLACE WITH NEW LIGHTS. REFER TO ALLOWANCES IN SPECIFICATIONS.
- REMOVE EXISTING FACE BRICK AT ROOF STEP; REFER TO STRUCTURAL AND ARCHITECTURAL SECTIONS

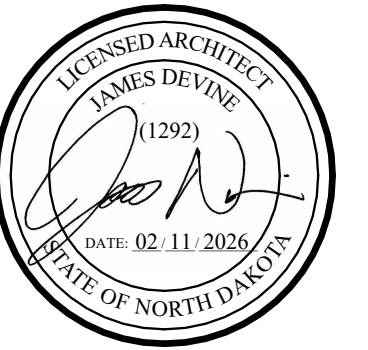
**SPECIFIC ROOF PLAN NOTES:**

- PREFINISHED STANDING SEAM METAL ROOF PANEL; PAC-CLAD TITE-LOC; COLOR - DARK BRONZE
- PREFINISHED METAL DRIP EDGE; PAC-CLAD; COLOR - DARK BRONZE
- PREFINISHED METAL GUTTER; PAC-CLAD; COLOR - DARK BRONZE
- PREFINISHED METAL DOWNSPOUT; PAC-CLAD; COLOR - DARK BRONZE
- EXHAUST HOOD BY MECHANICAL CONTRACTOR. EXTEND EXISTING DUCTWORK TO NEW ROOF PENETRATION. FLASH PER ROOF MANUFACTURER'S RECOMMENDATIONS.
- PLUMBING VENT BY MECHANICAL CONTRACTOR. EXTEND EXISTING VENT PIPING THROUGH ROOF AND FLASH PER ROOF MANUFACTURER'S RECOMMENDATIONS.
- MECHANICAL FLUE BY MECHANICAL CONTRACTOR. EXTEND EXISTING VENT PIPING THROUGH ROOF AND FLASH PER ROOF MANUFACTURER'S RECOMMENDATIONS.
- MECHANICAL EXHAUST HOOD BY MECHANICAL CONTRACTOR. EXTEND EXISTING DUCTWORK TO ROOF AND PENETRATE WITH NEW ROOF HOOD AND FLASH PER ROOF MANUFACTURER'S RECOMMENDATIONS.
- SPLASHBLOCK; REFER TO DETAIL 1/A103

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**Contract Documents**

February 11, 2026  
J2 Project No. J22528



**City of Bowman  
Bowman City Hall Roof  
Replacement  
Bowman, North Dakota**

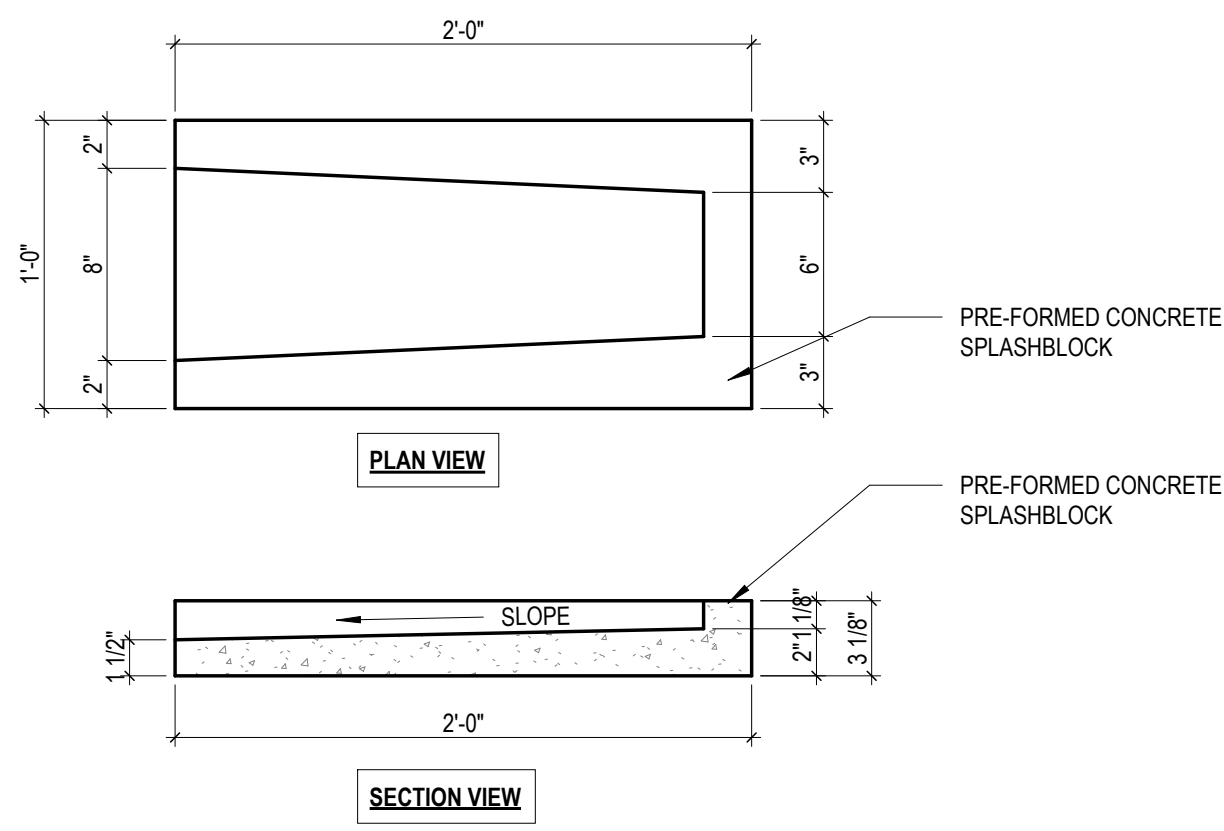


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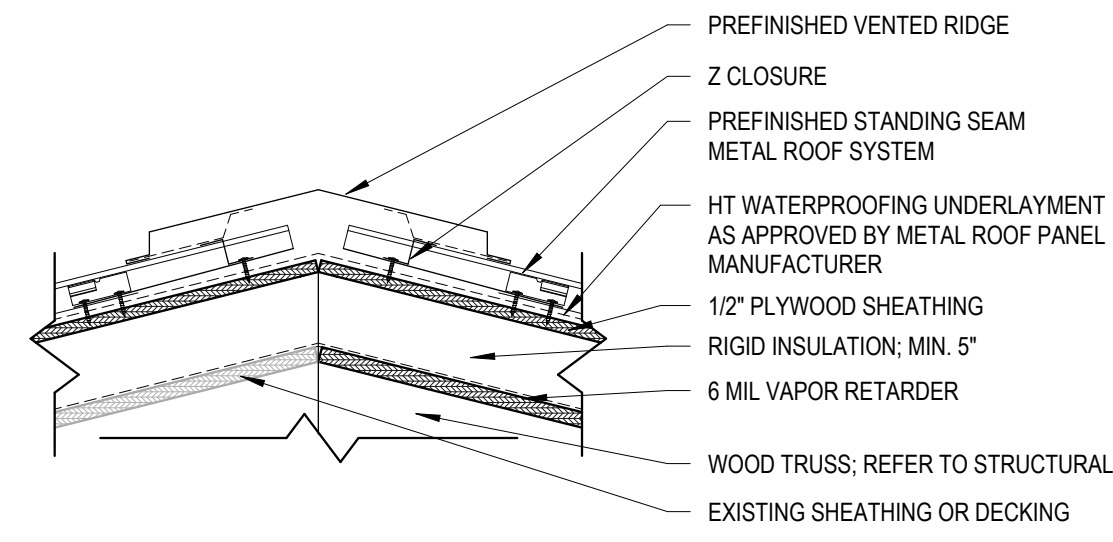
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**Roof Demolition and Roof Plans**

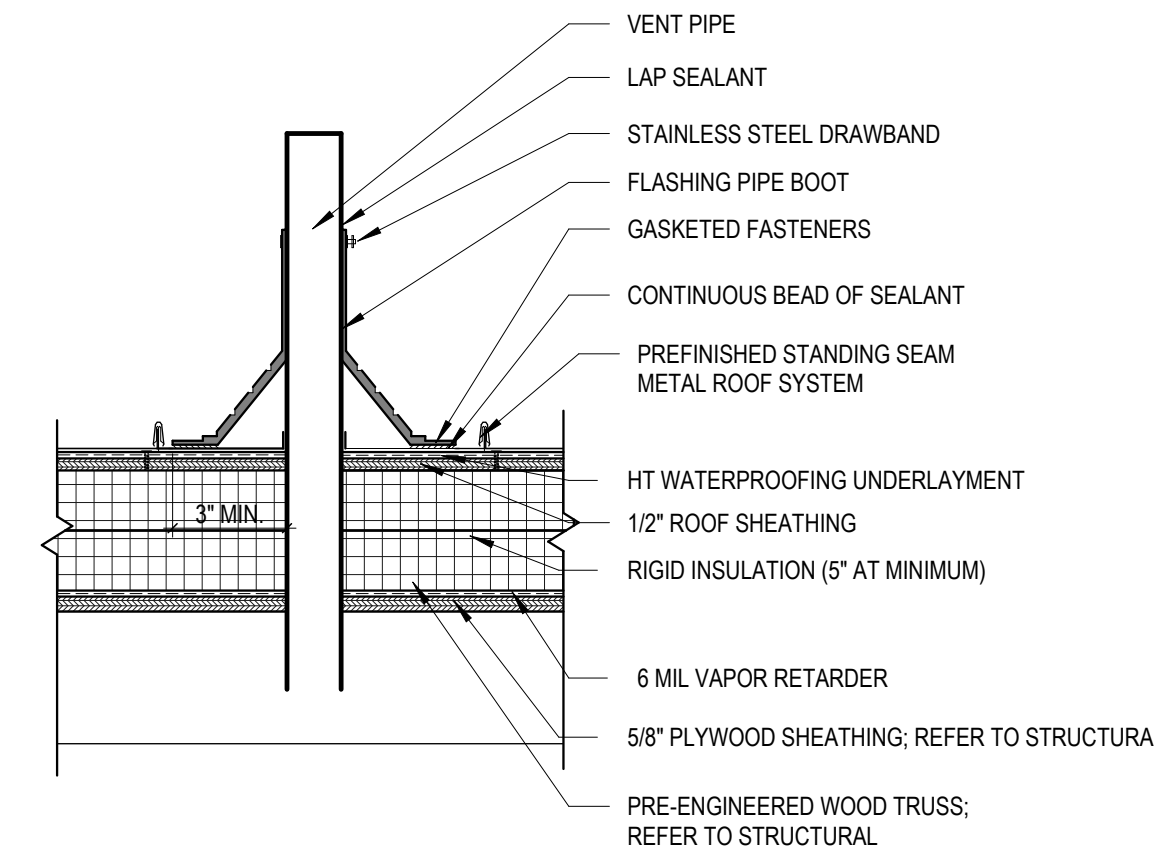
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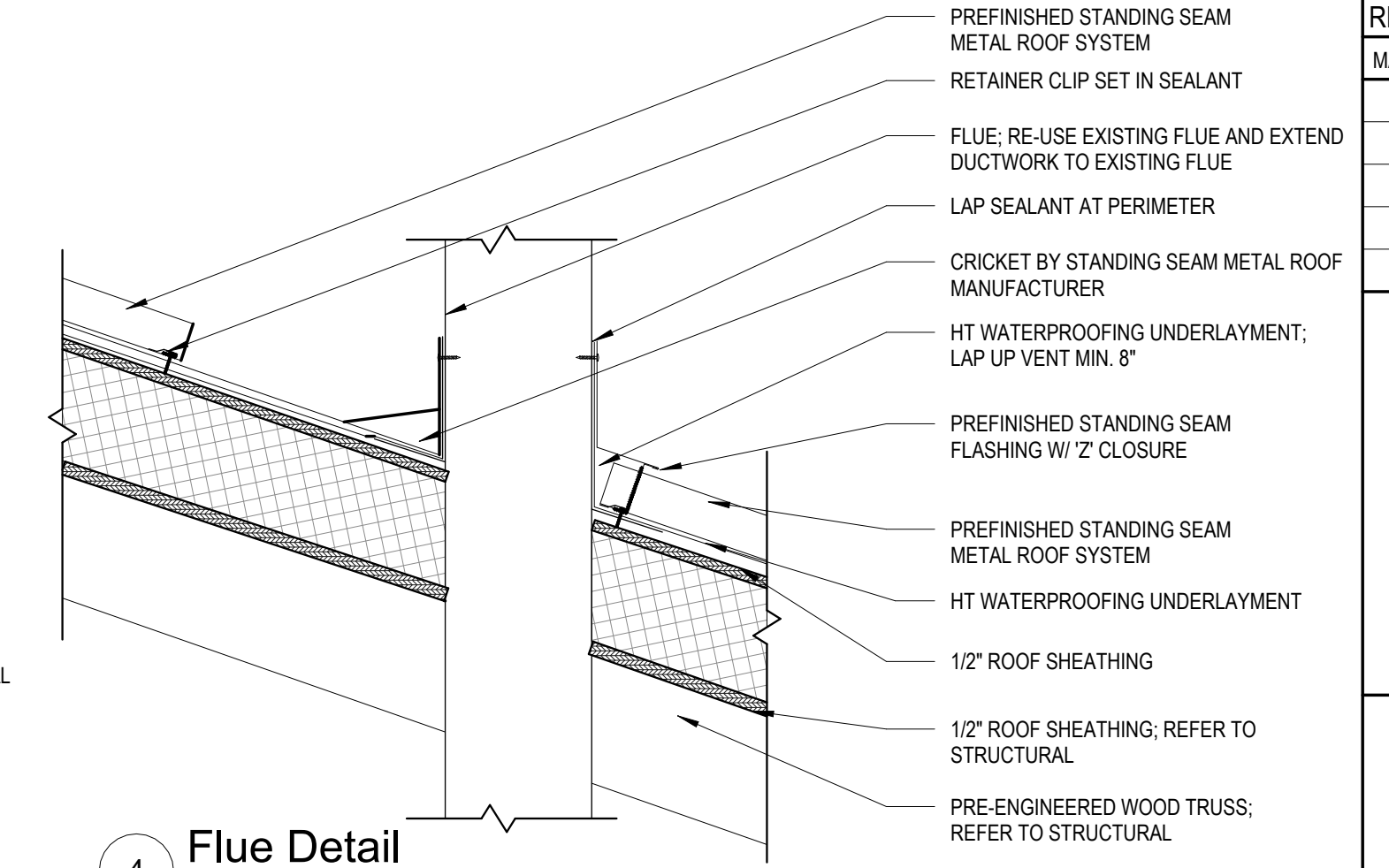
1 Splashblock Detail  
Scale: 1 1/2" = 1'-0"



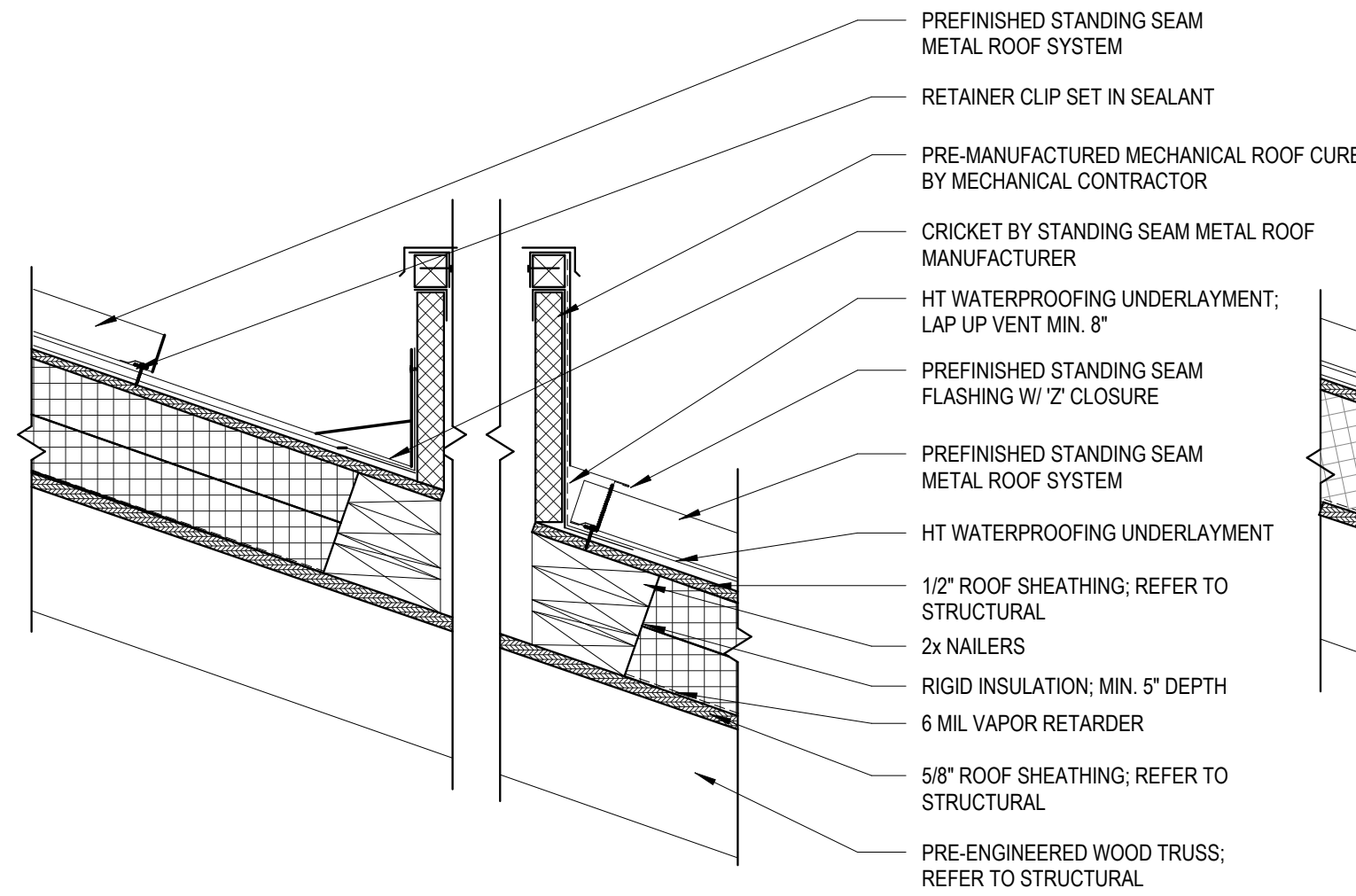
2 Ridge Vent Detail  
Scale: 1 1/2" = 1'-0"



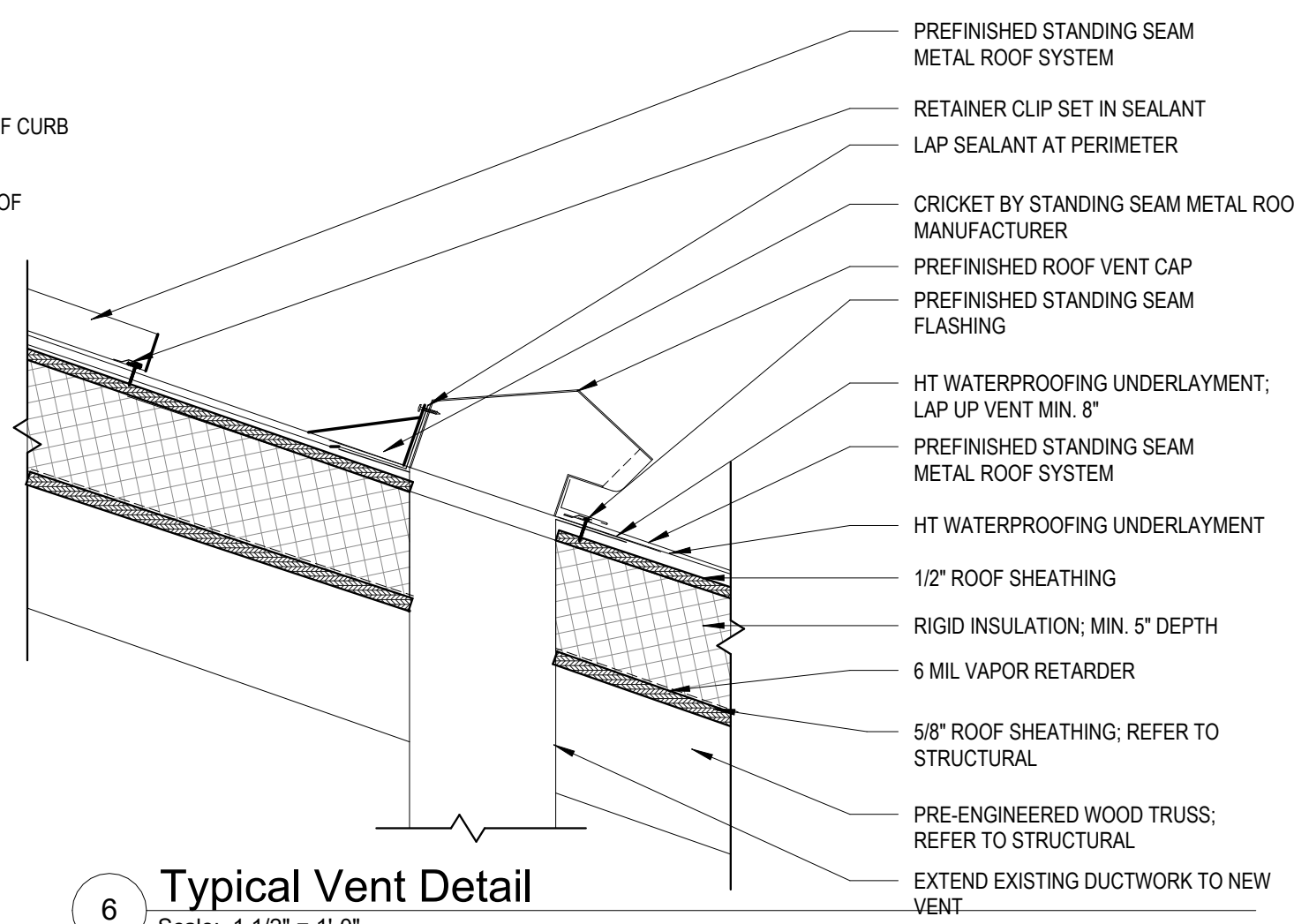
3 Typical Vent Thru Roof Detail  
Scale: 1 1/2" = 1'-0"



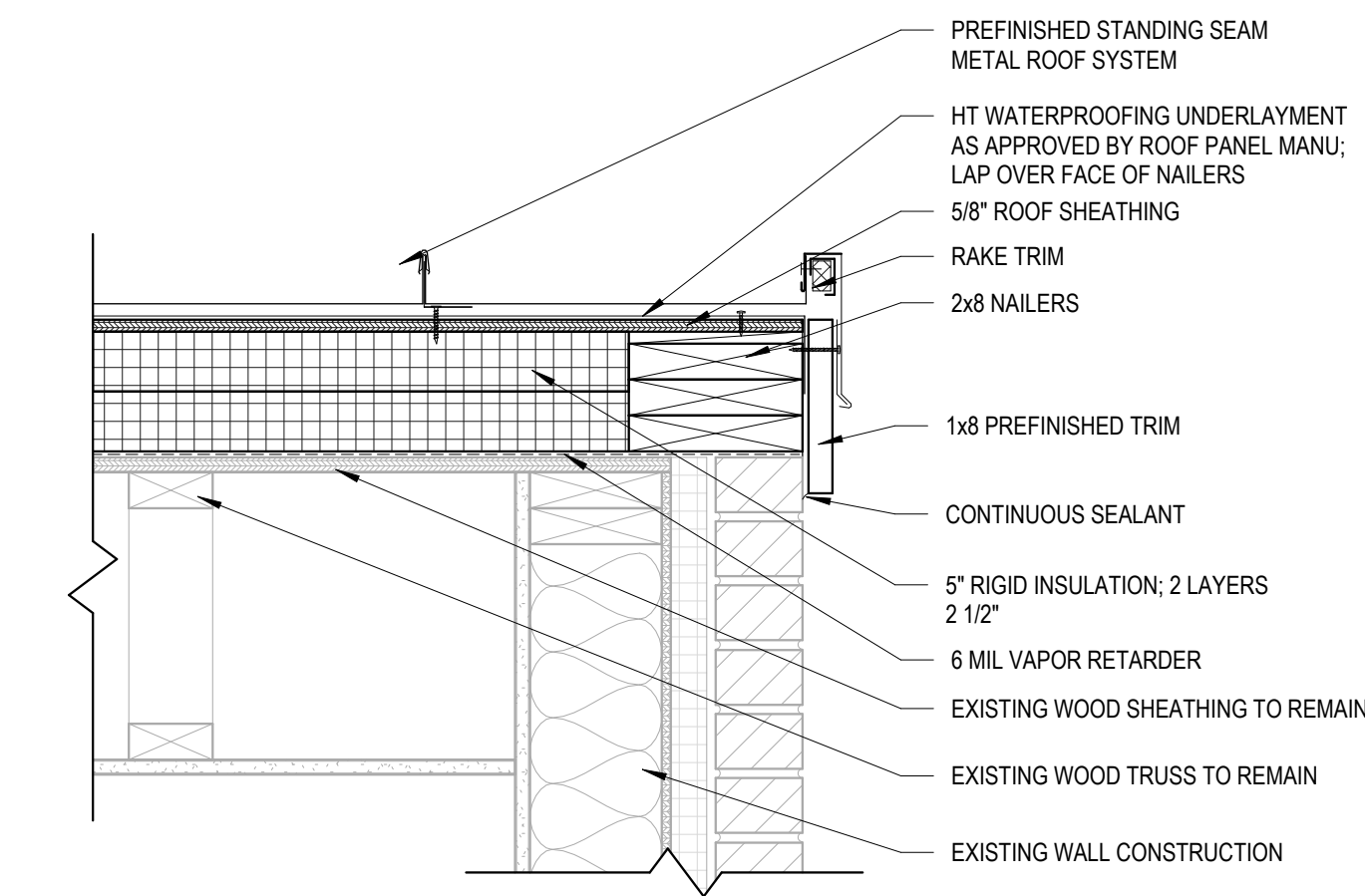
4 Flue Detail  
Scale: 1 1/2" = 1'-0"



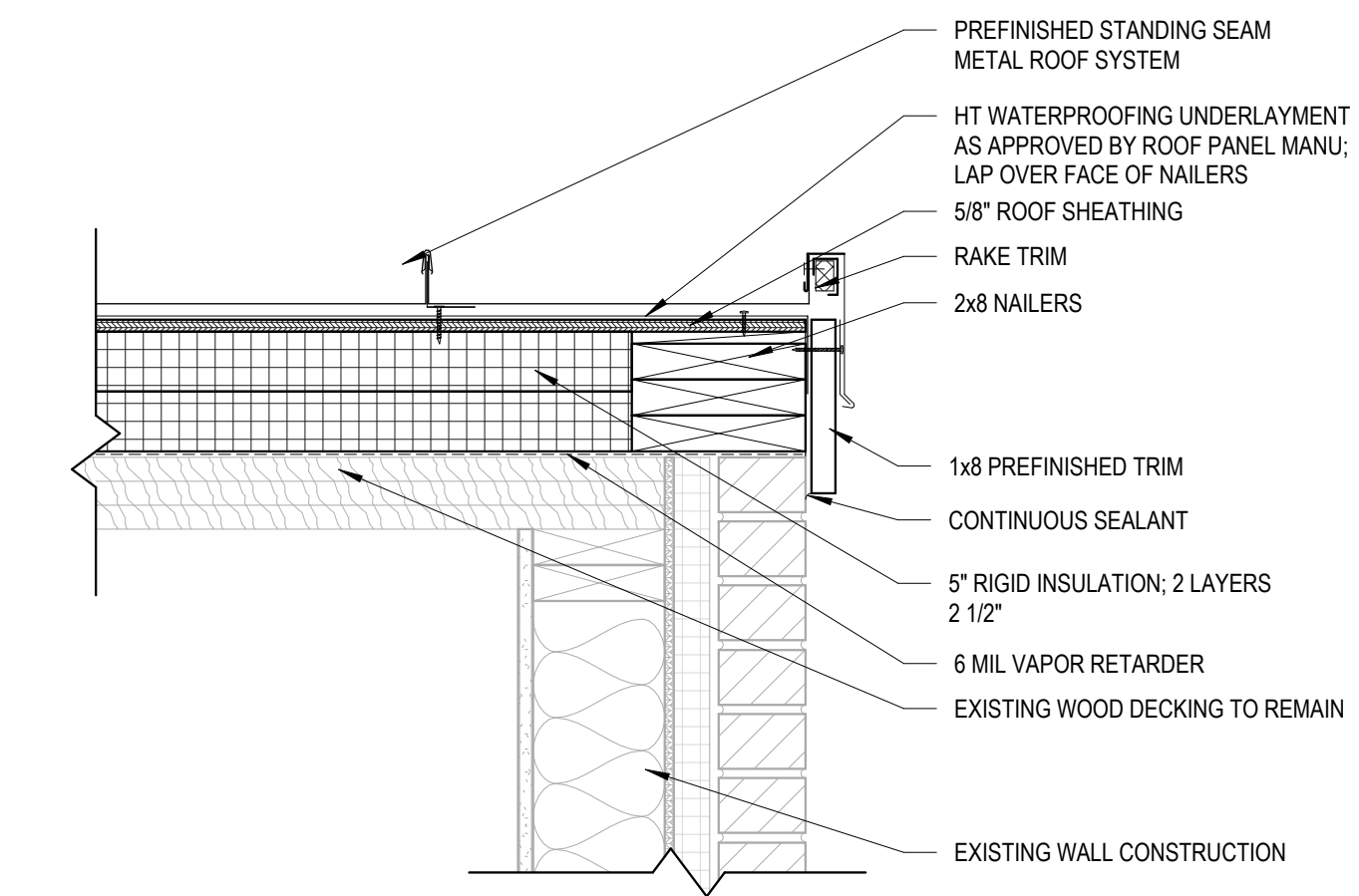
5 Typical Roof Curb Detail  
Scale: 1 1/2" = 1'-0"



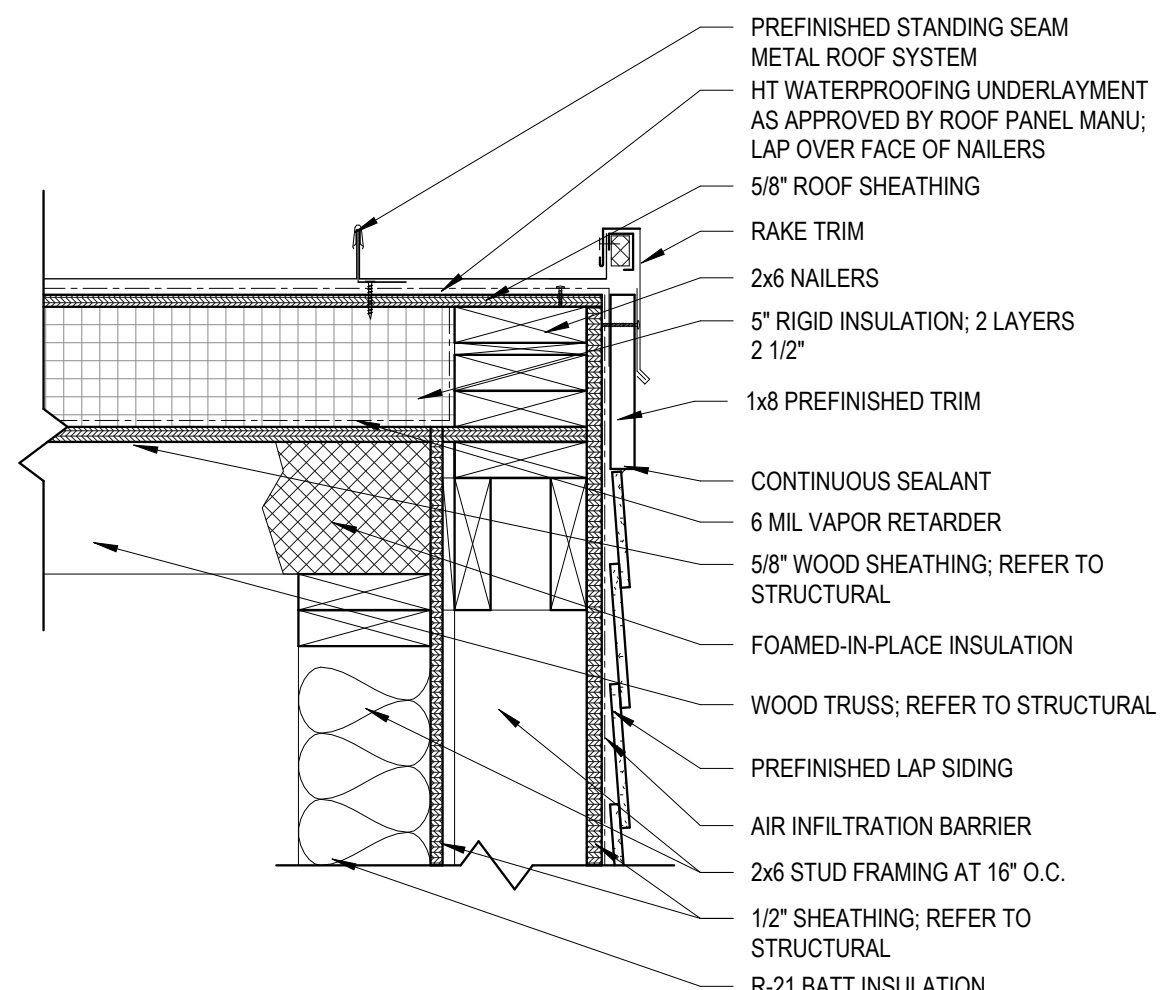
6 Typical Vent Detail  
Scale: 1 1/2" = 1'-0"



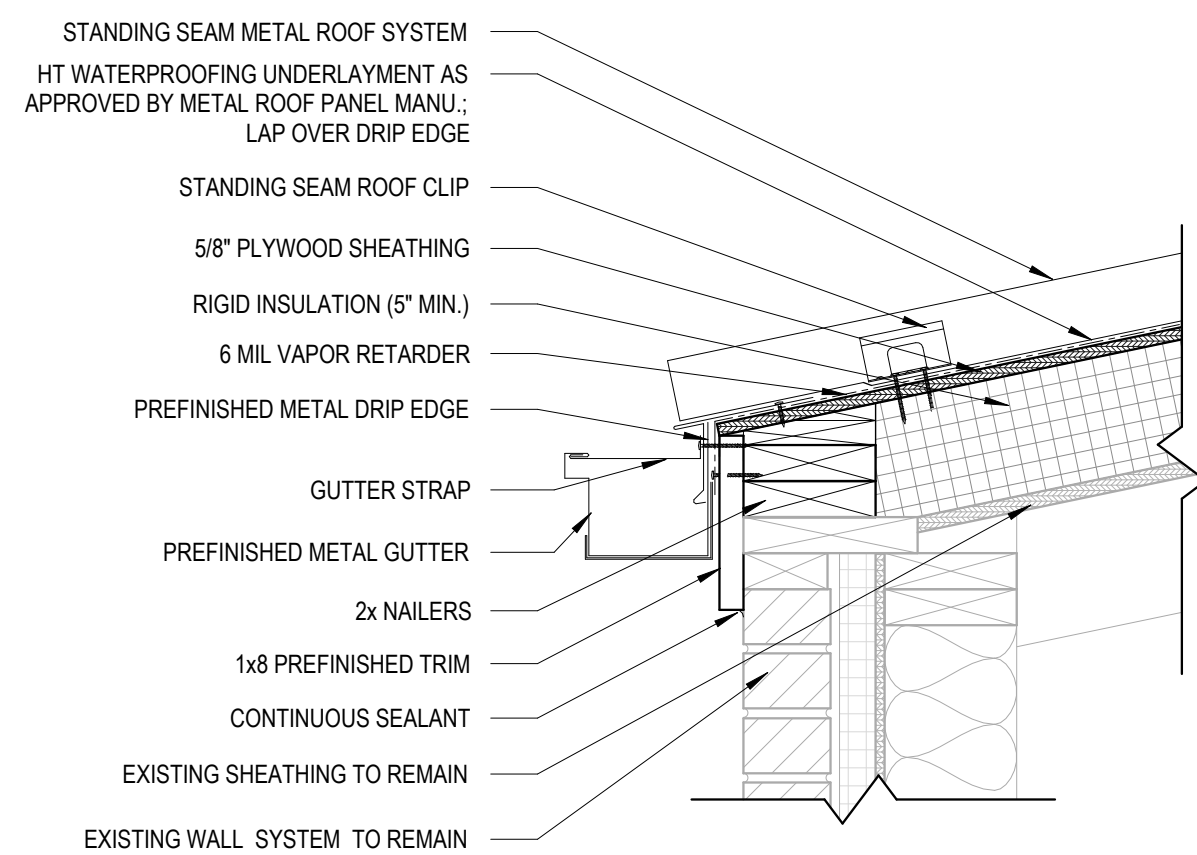
7 Rake Detail at Existing Wall  
Scale: 1 1/2" = 1'-0"



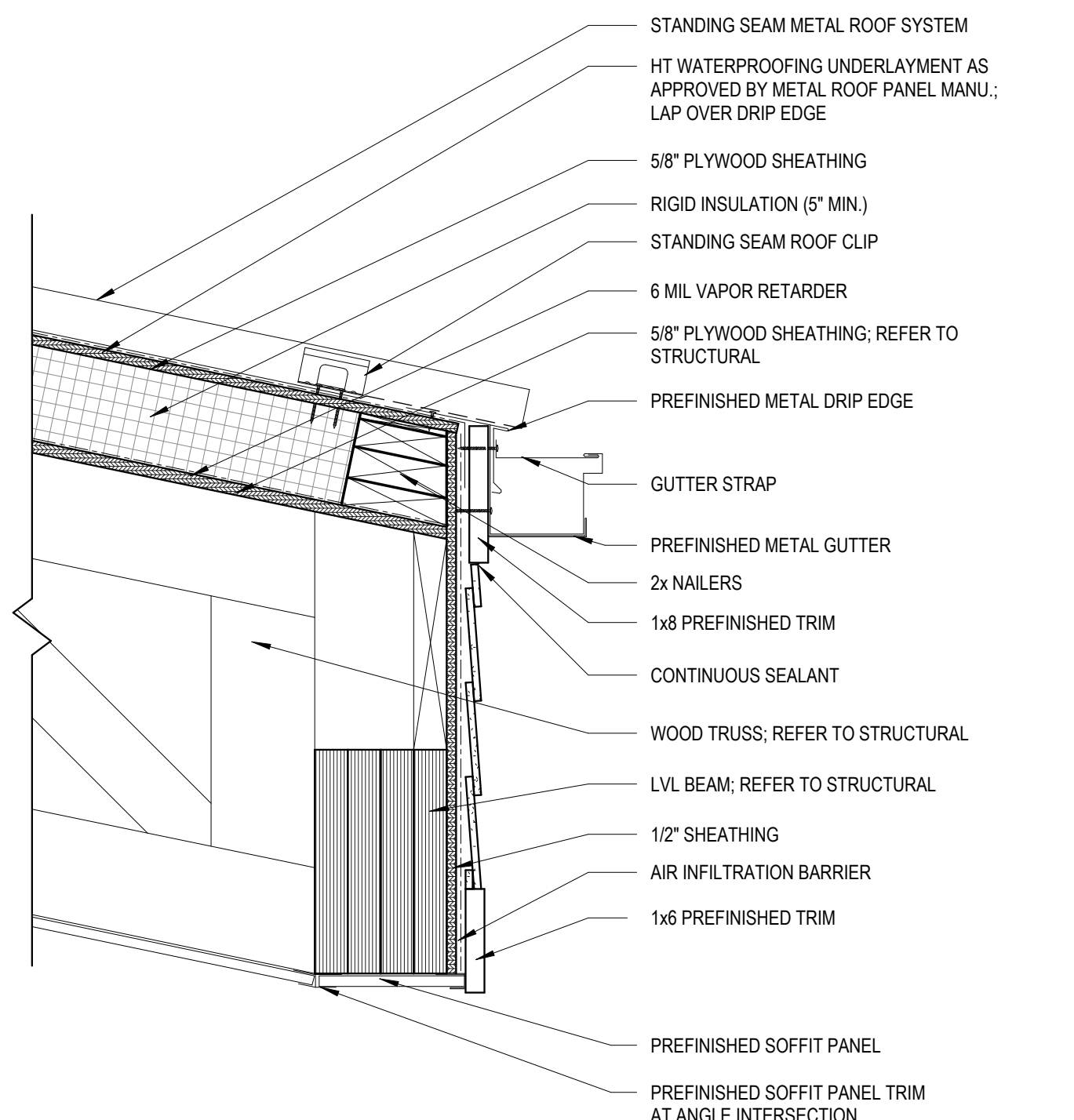
8 Rake Detail at Existing Wall  
Scale: 1 1/2" = 1'-0"



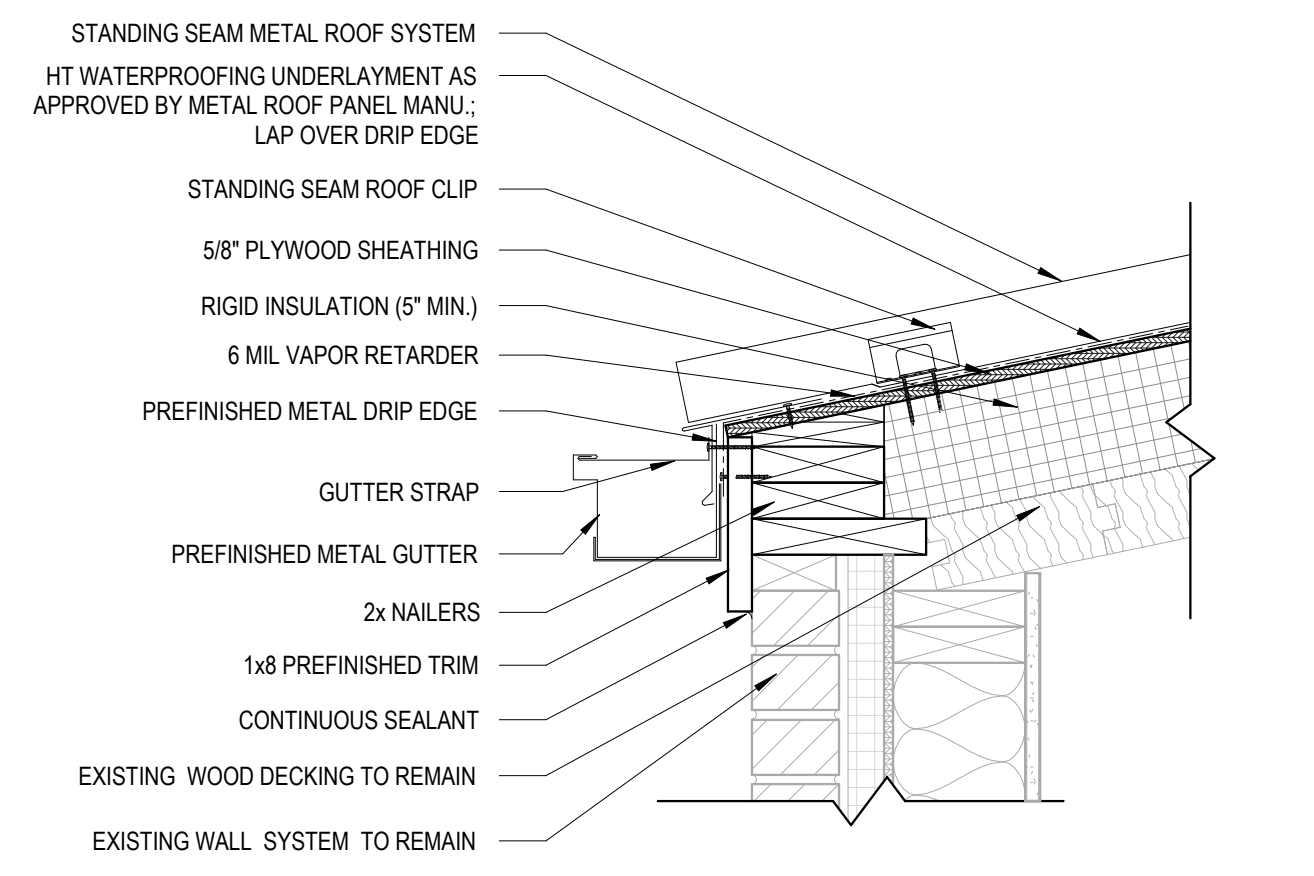
9 Rake Detail at New Wall  
Scale: 1 1/2" = 1'-0"



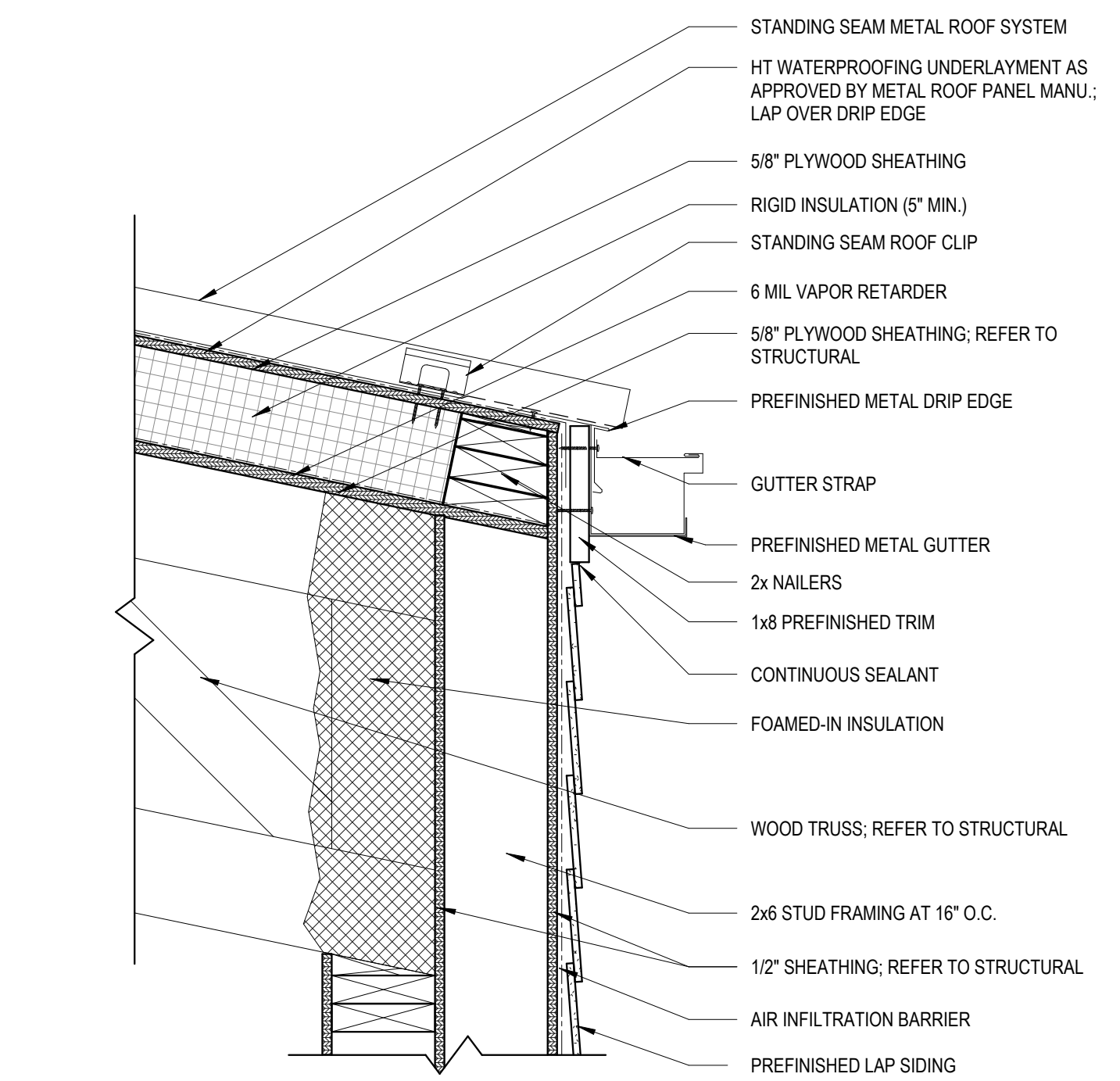
10 Roof Detail - Standing Seam at Gutter  
Scale: 1 1/2" = 1'-0"



11 Rake Detail at Patio  
Scale: 1 1/2" = 1'-0"



12 Roof Detail - Standing Seam at Gutter  
Scale: 1 1/2" = 1'-0"



13 Roof Detail - Standing Seam at Gutter  
Scale: 1 1/2" = 1'-0"

14 Roof Detail - Standing Seam at Gutter  
Scale: 1 1/2" = 1'-0"

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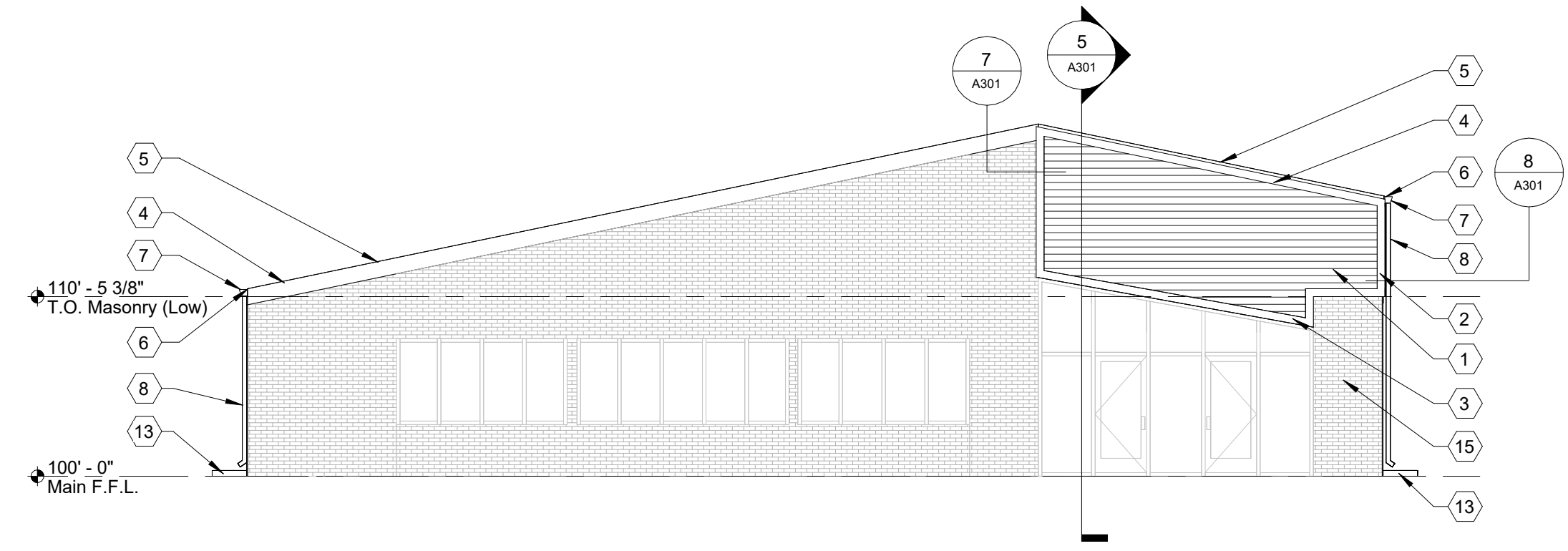
City of Bowman  
Bowman City Hall Roof  
Replacement  
Bowman, North Dakota



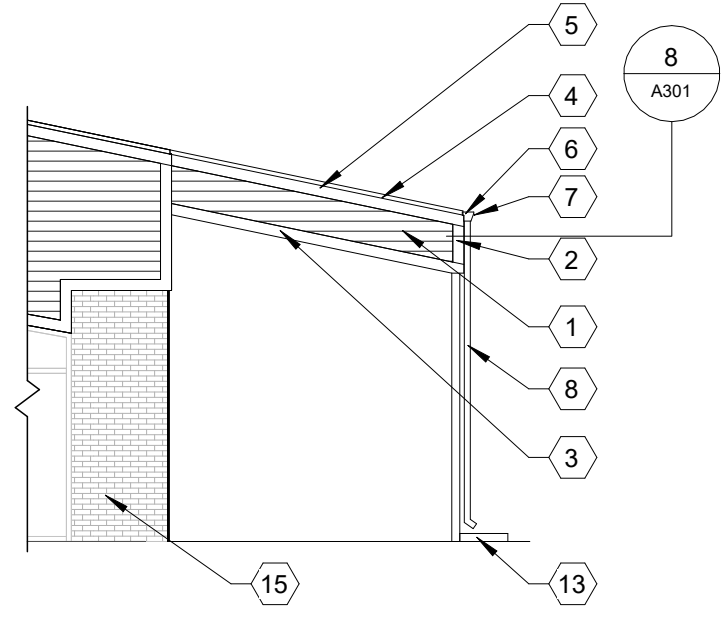
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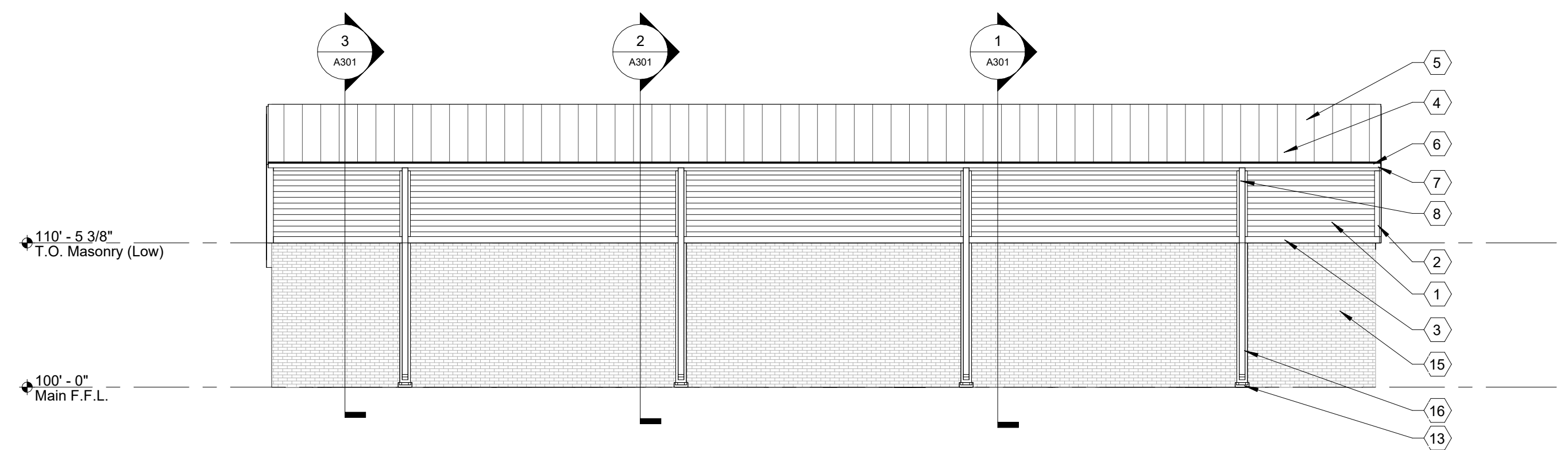
Roof Details



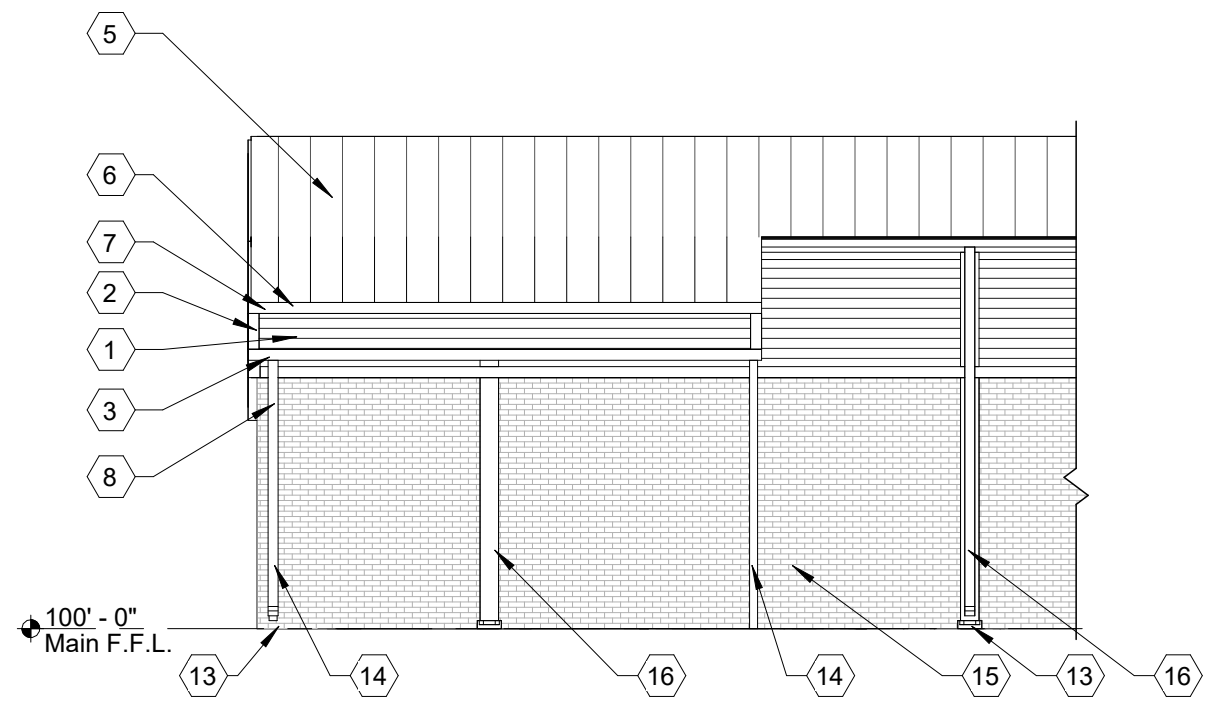
1 South Exterior Elevation  
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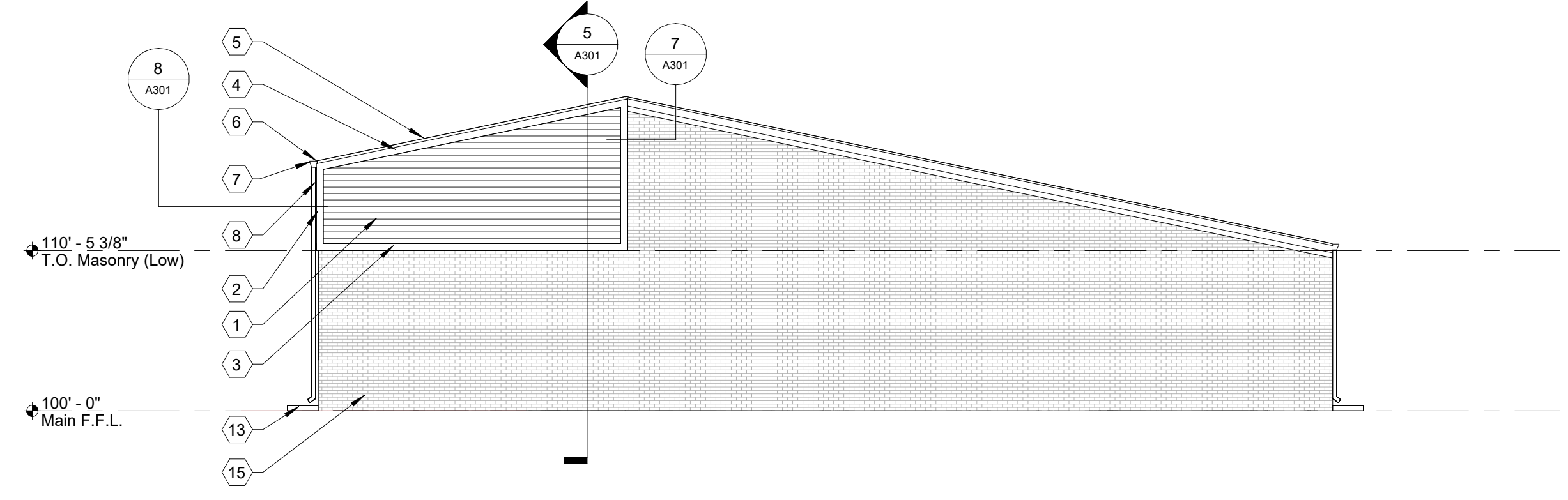
2 Partial South Exterior Elevation (Alt. Bid)  
Scale: 1/8" = 1'-0"



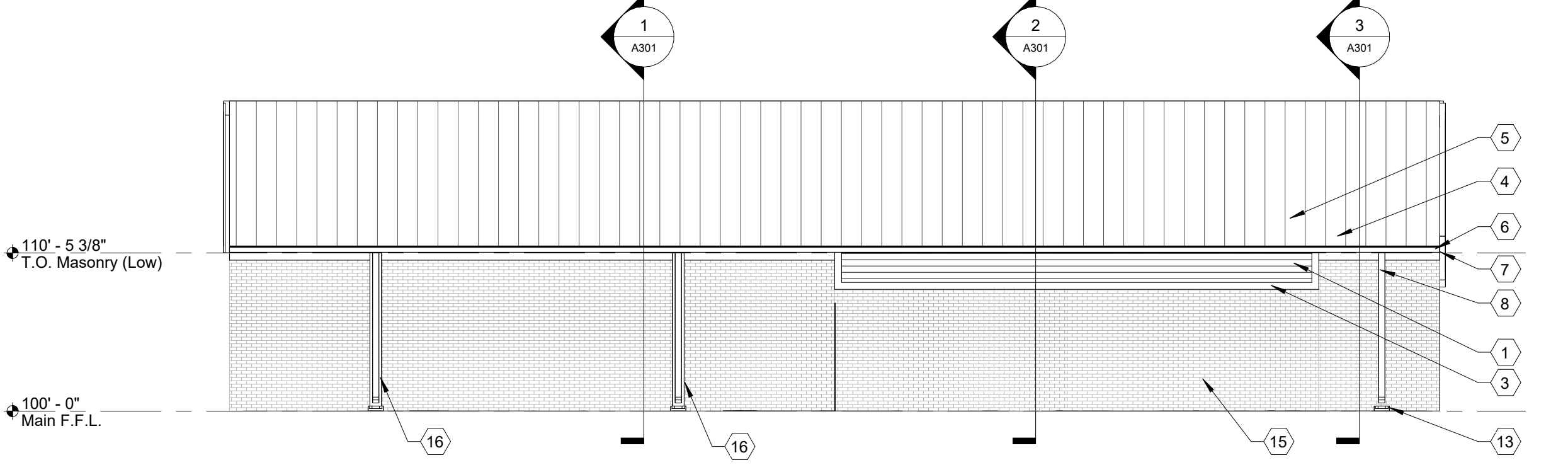
3 East Exterior Elevation  
Scale: 1/8" = 1'-0"



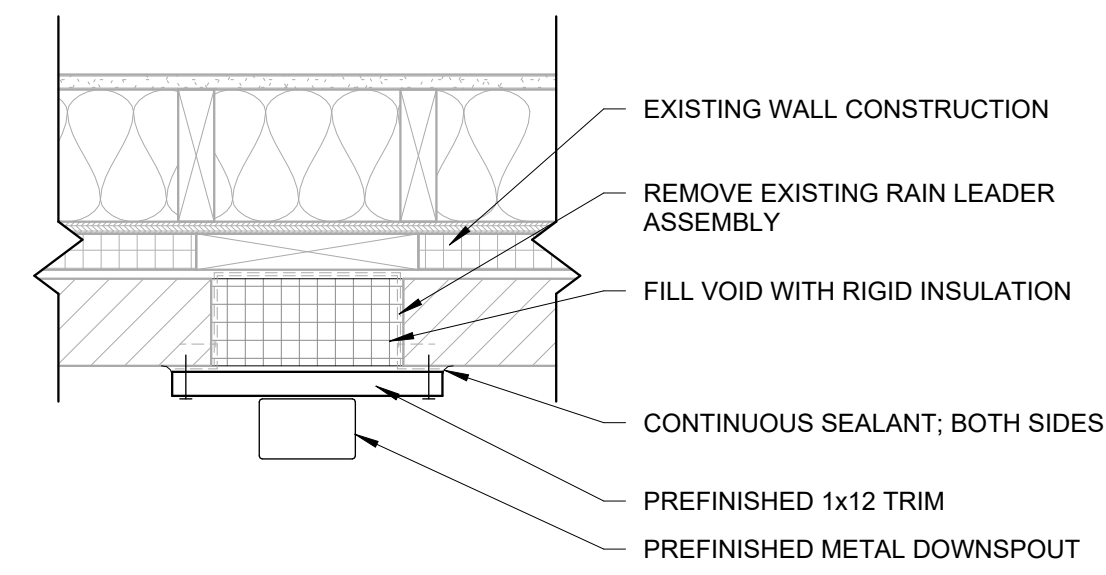
4 Partial East Exterior Elevation (Alt. Bid)  
Scale: 1/8" = 1'-0"



5 North Exterior Elevation  
Scale: 1/8" = 1'-0"



6 West Exterior Elevation  
Scale: 1/8" = 1'-0"



7 Existing Downspout Infill Detail  
Scale: 1 1/2" = 1'-0"

**GENERAL ELEVATION NOTES:**

1. GENERAL CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER.

**SPECIFIC ELEVATION NOTES:**

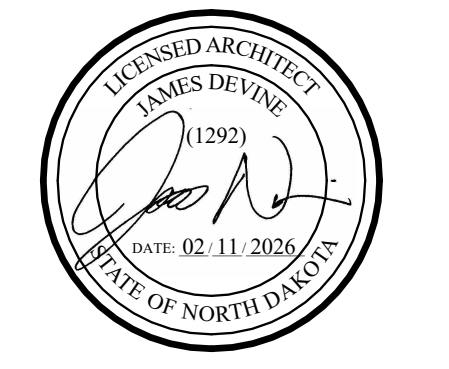
- 1 EXTERIOR SIDING; LP SMARTSIDE; COLOR - TUNDRA GRAY, SMOOTH FINISH; 5" EXPOSURE
- 2 PREFINISHED CORNER TRIM; LP SMARTSIDE TRIM; COLOR - MIDNIGHT SHADOW; SMOOTH FINISH
- 3 PREFINISHED 1x6 TRIM; LP SMARTSIDE TRIM; COLOR - MIDNIGHT SHADOW; SMOOTH FINISH
- 4 PREFINISHED 1x8 TRIM; LP SMARTSIDE TRIM; COLOR - MIDNIGHT SHADOW; SMOOTH FINISH
- 5 PREFINISHED STANDING SEAM METAL ROOF PANEL; PAC-CLAD TITE-LOC; COLOR - DARK BRONZE
- 6 PREFINISHED METAL DRIP EDGE; PAC-CLAD; COLOR - DARK BRONZE
- 7 PREFINISHED METAL GUTTER; PAC-CLAD; COLOR - DARK BRONZE
- 8 PREFINISHED METAL DOWNSPOUT; PAC-CLAD; COLOR - DARK BRONZE
- 9 EXHAUST HOOD BY MECHANICAL CONTRACTOR. EXTEND EXISTING DUCTWORK TO NEW ROOF PENETRATION. FLASH PER ROOF MANUFACTURER'S RECOMMENDATIONS.
- 10 PLUMBING VENT BY MECHANICAL CONTRACTOR. EXTEND EXISTING VENT PIPING THROUGH ROOF AND FLASH PER ROOF MANUFACTURER'S RECOMMENDATIONS.
- 11 MECHANICAL FLUE BY MECHANICAL CONTRACTOR. EXTEND EXISTING VENT PIPING THROUGH ROOF AND FLASH PER ROOF MANUFACTURER'S RECOMMENDATIONS.
- 12 MECHANICAL EXHAUST HOOD BY MECHANICAL CONTRACTOR. EXTEND EXISTING DUCTWORK TO ROOF AND PENETRATE WITH NEW ROOF HOOD AND FLASH PER ROOF MANUFACTURER'S RECOMMENDATIONS.
- 13 SPLASHBLOCK; REFER TO DETAIL 1/1A103
- 14 STEEL COLUMN; PAINT TO MATCH SMARTSIDE TRIM COLOR
- 15 EXISTING BUILDING
- 16 PREFINISHED 1x12 TRIM; LP SMARTSIDE TRIM; COLOR - MIDNIGHT SHADOW; SMOOTH FINISH; REFER TO DETAIL 7/A201

NOTE: FINAL COLOR SELECTIONS FOR SIDING, SIDING TRIM, SOFFIT PANELS, PREFINISHED METAL ROOFING ACCESSORIES, PREFINISHED FASCIA AND PREFINISHED STANDING SEAM ROOF TO BE SELECTED FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS.

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**City of Bowman  
Bowman City Hall Roof  
Replacement  
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**Exterior Elevations & Axon Views**

**A201**

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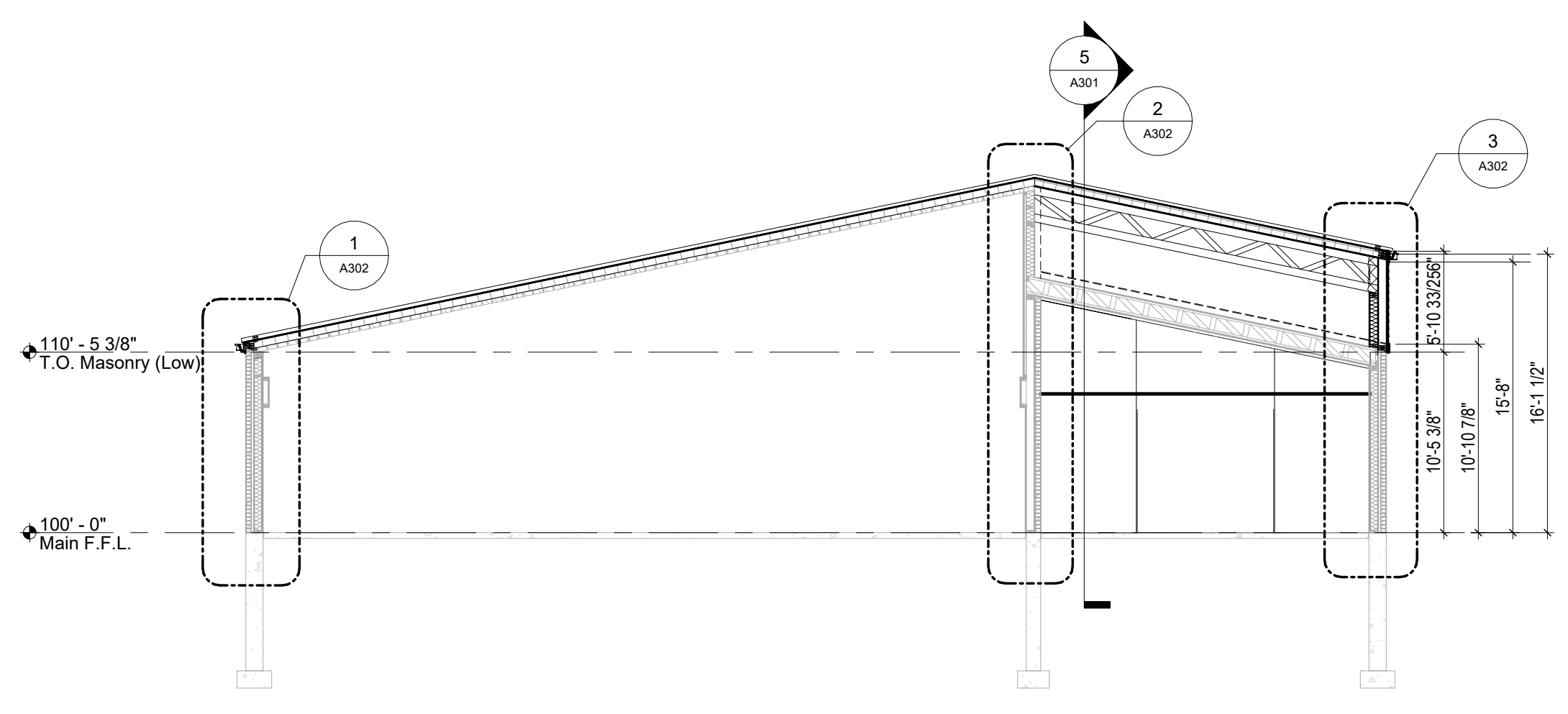
**City of Bowman  
Bowman City Hall Roof  
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Bowman, North Dakota



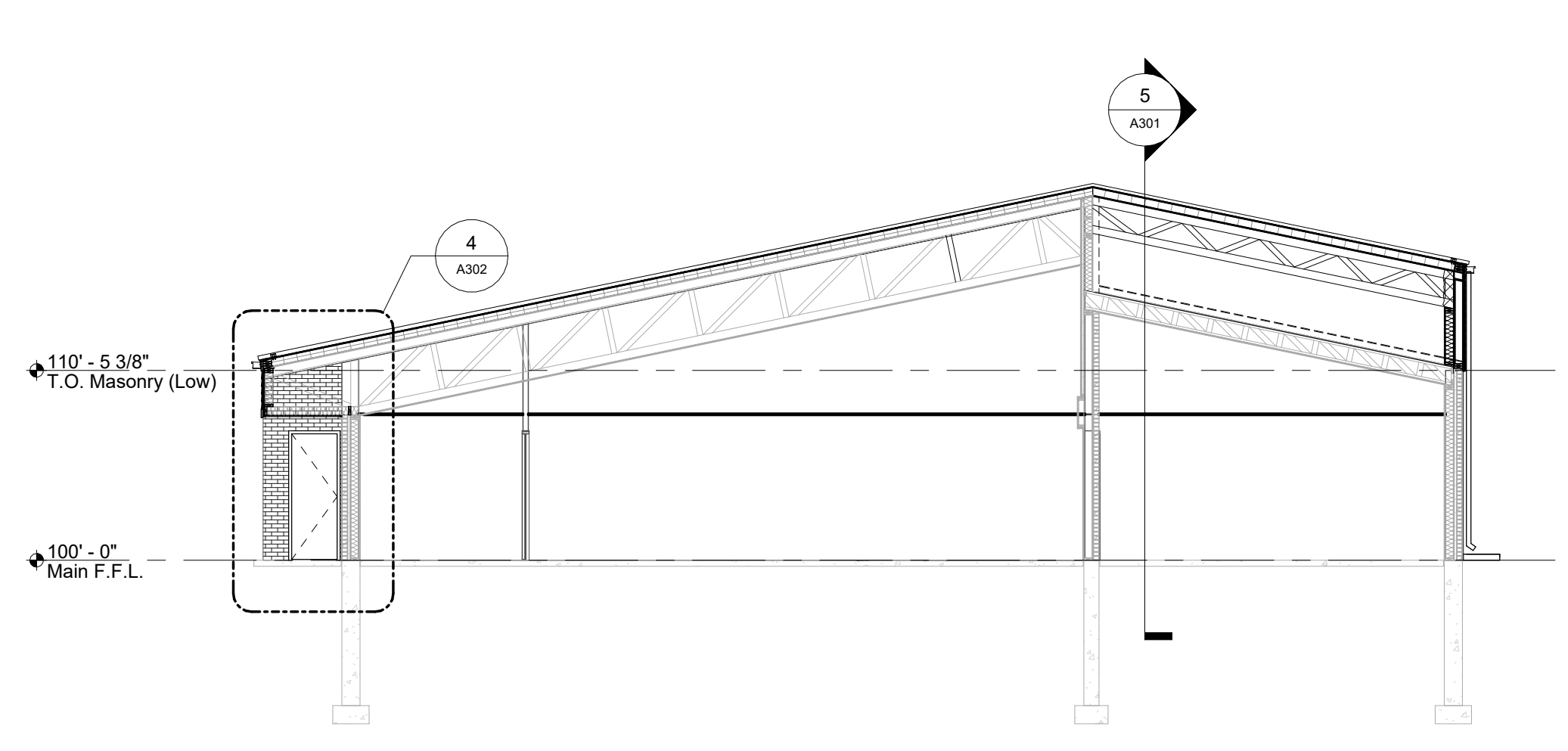
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**Building Sections**

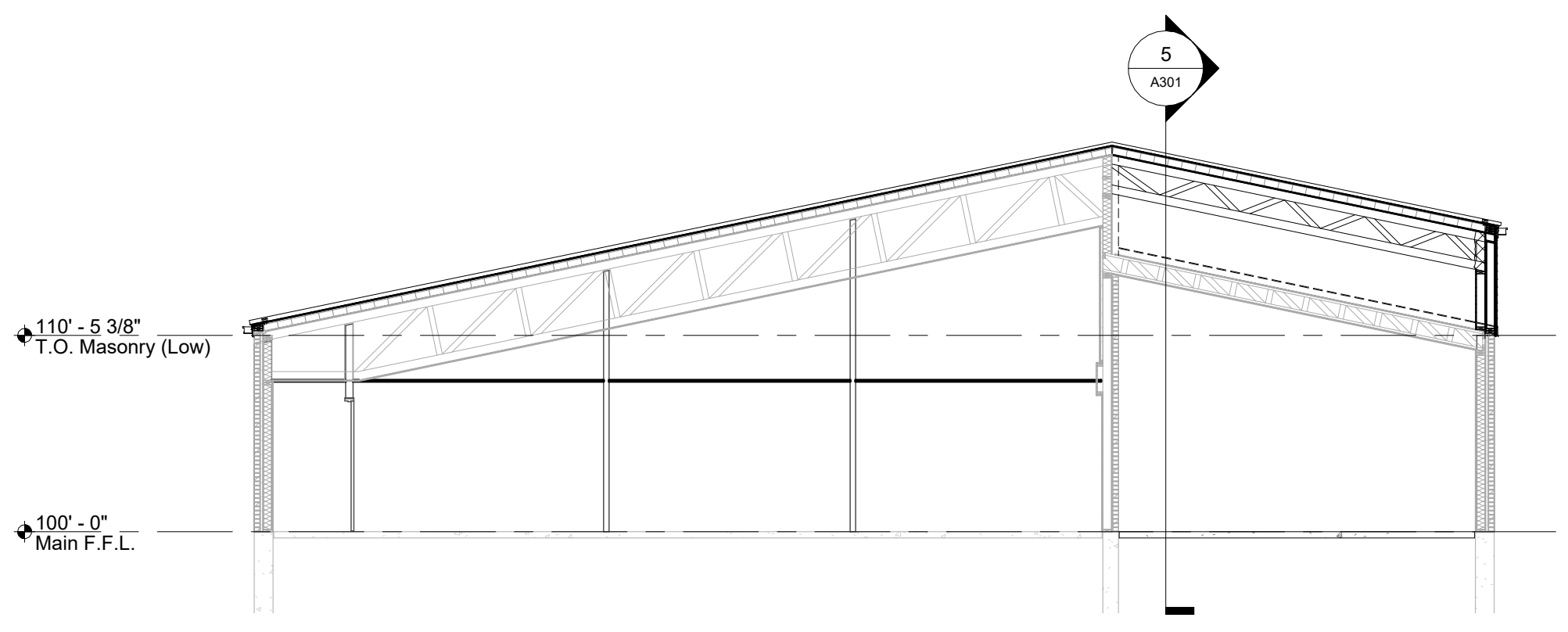
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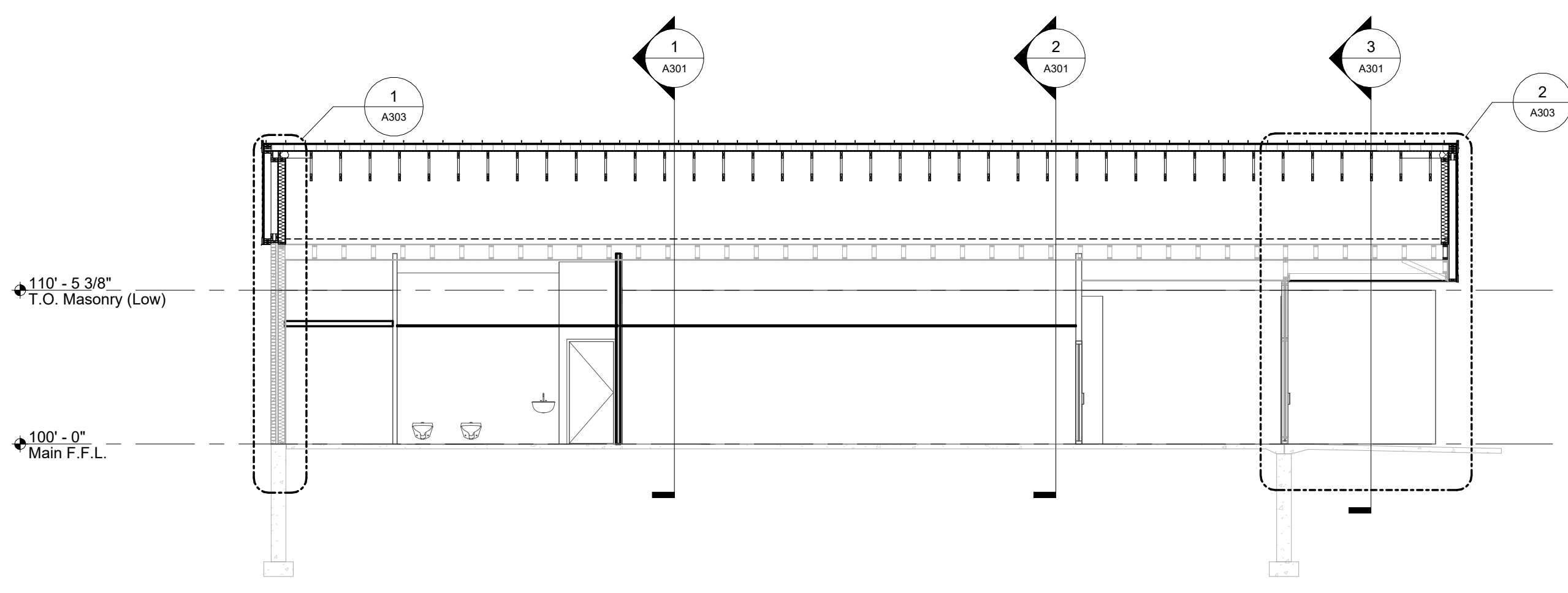
**1 Building Section**  
Scale: 1/8" = 1'-0"



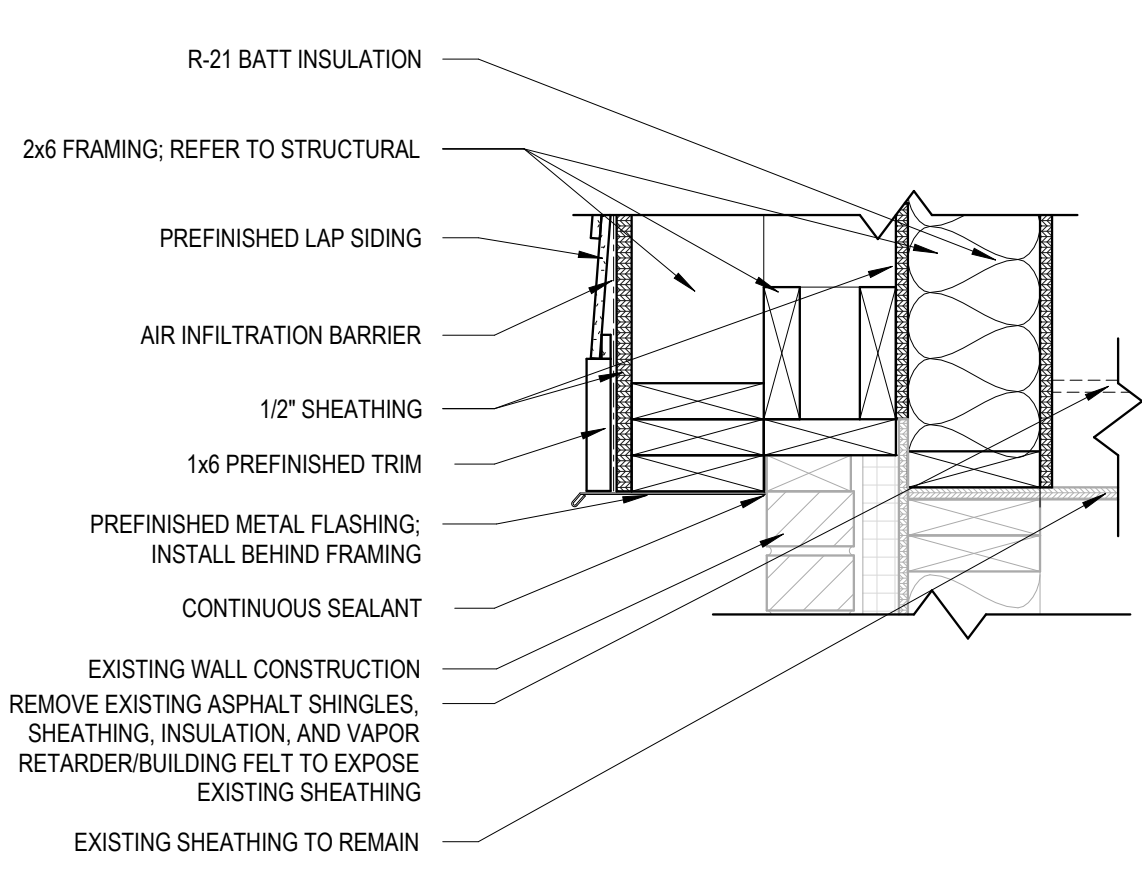
**2 Building Section**  
Scale: 1/8" = 1'-0"



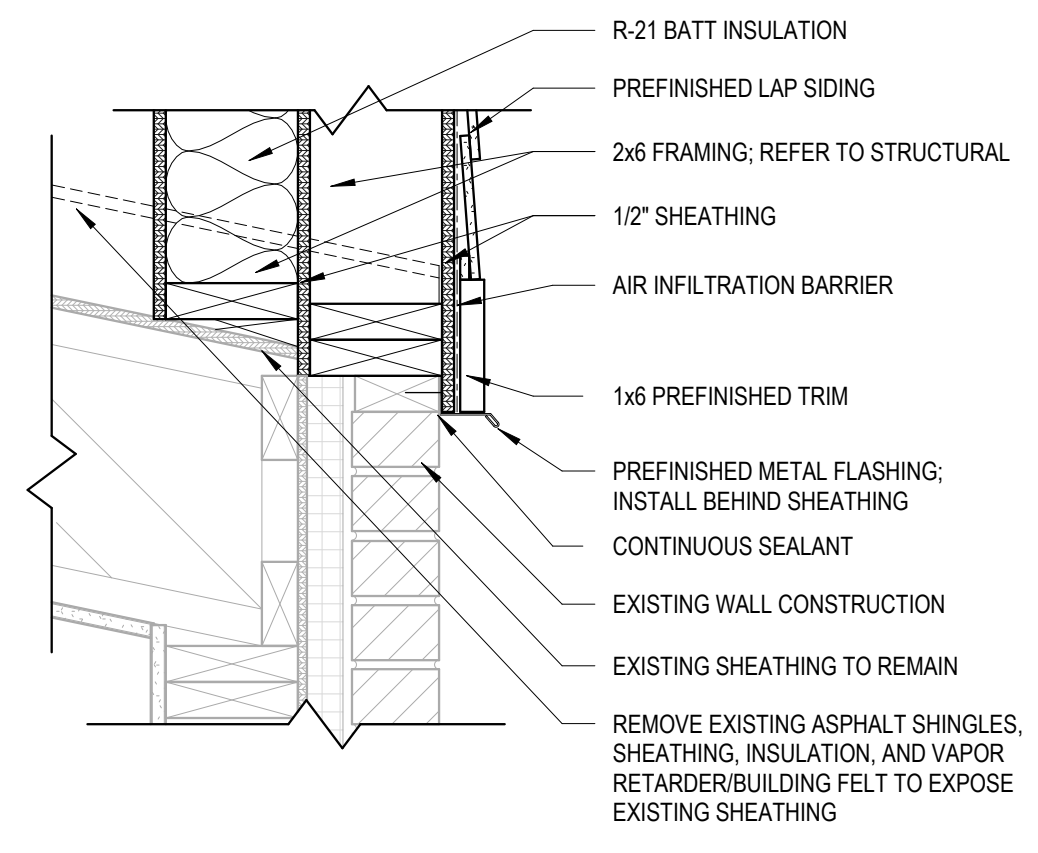
**3 Building Section**  
Scale: 1/8" = 1'-0"



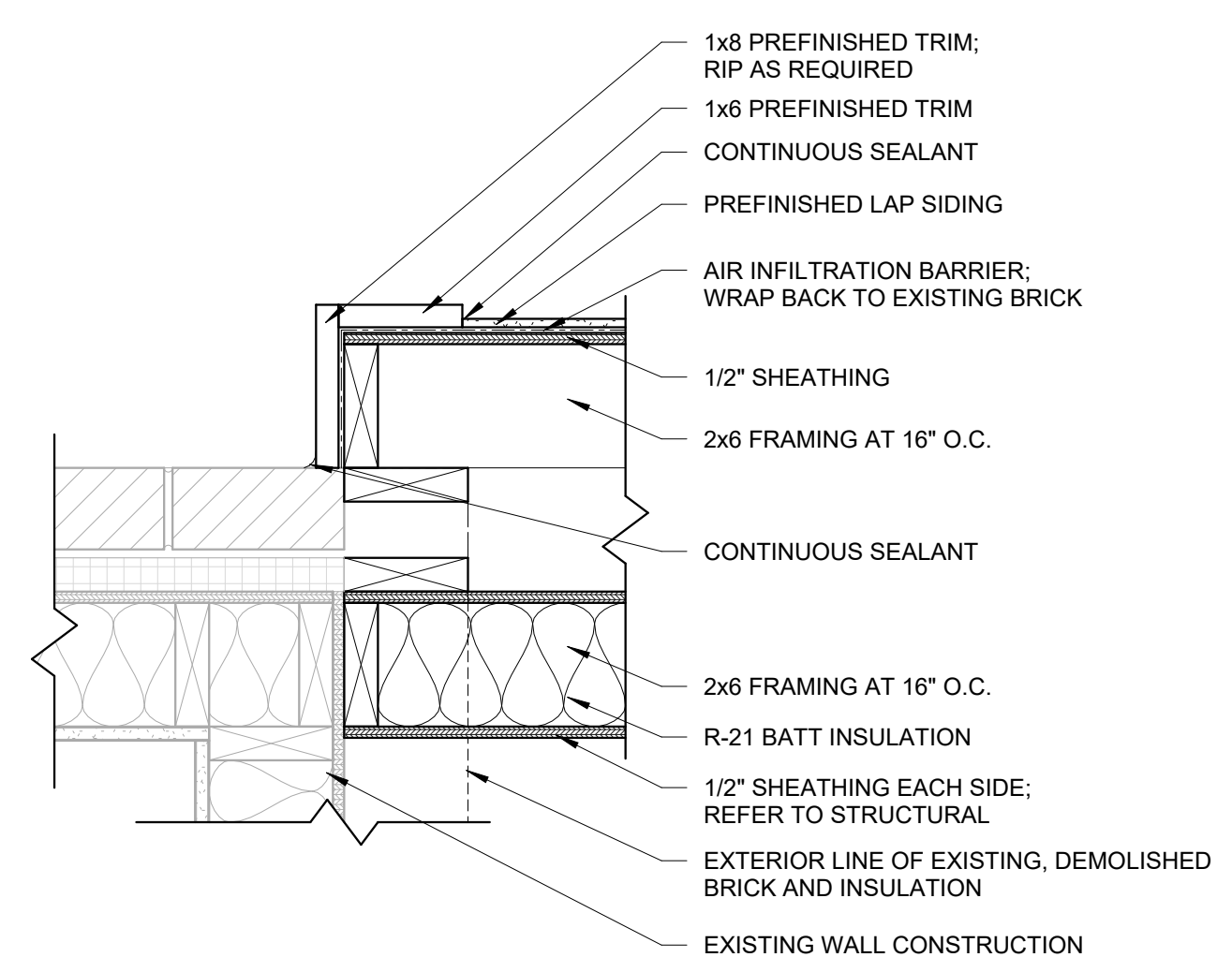
**5 Building Section**  
Scale: 1/8" = 1'-0"



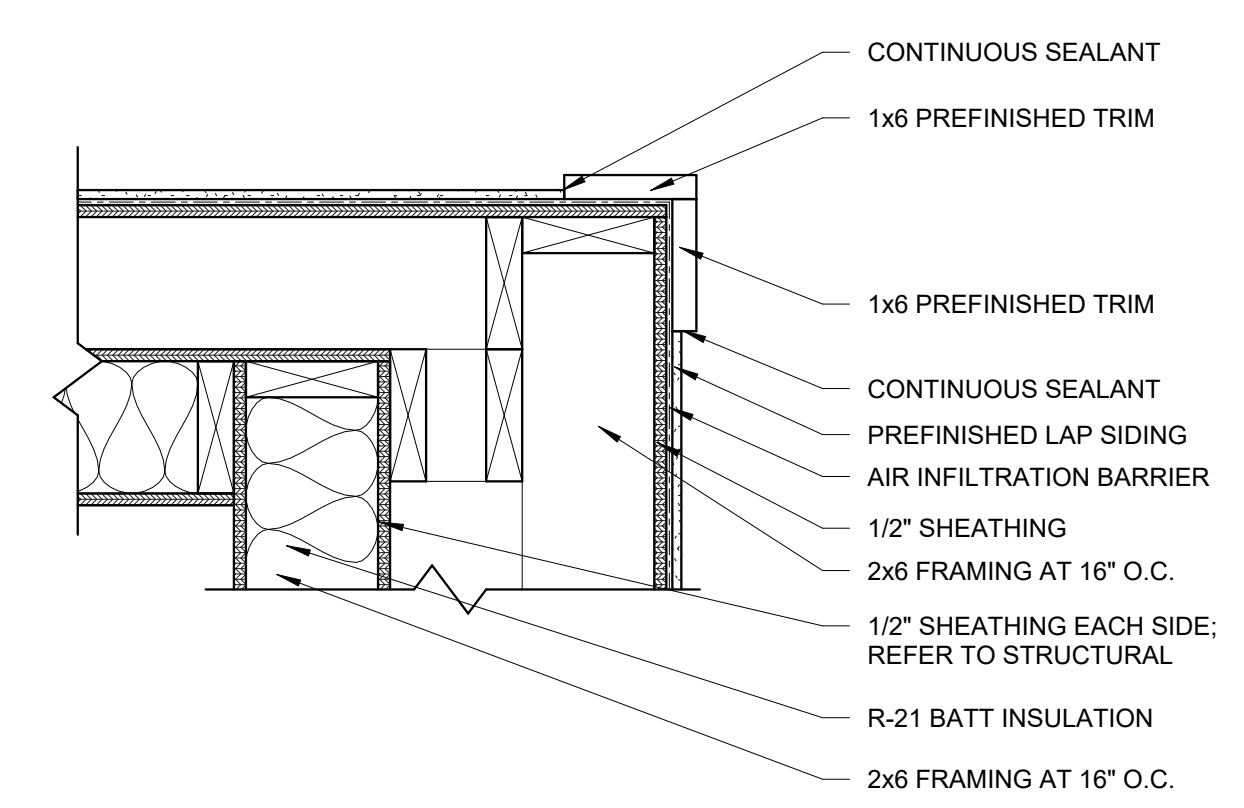
**4 Base of Wall at Existing**  
Scale: 1 1/2" = 1'-0"



**6 Base of Wall at Existing**  
Scale: 1 1/2" = 1'-0"



**7 Outside Corner at Existing Wall**  
Scale: 1 1/2" = 1'-0"



**8 Outside Corner at New Wall**  
Scale: 1 1/2" = 1'-0"

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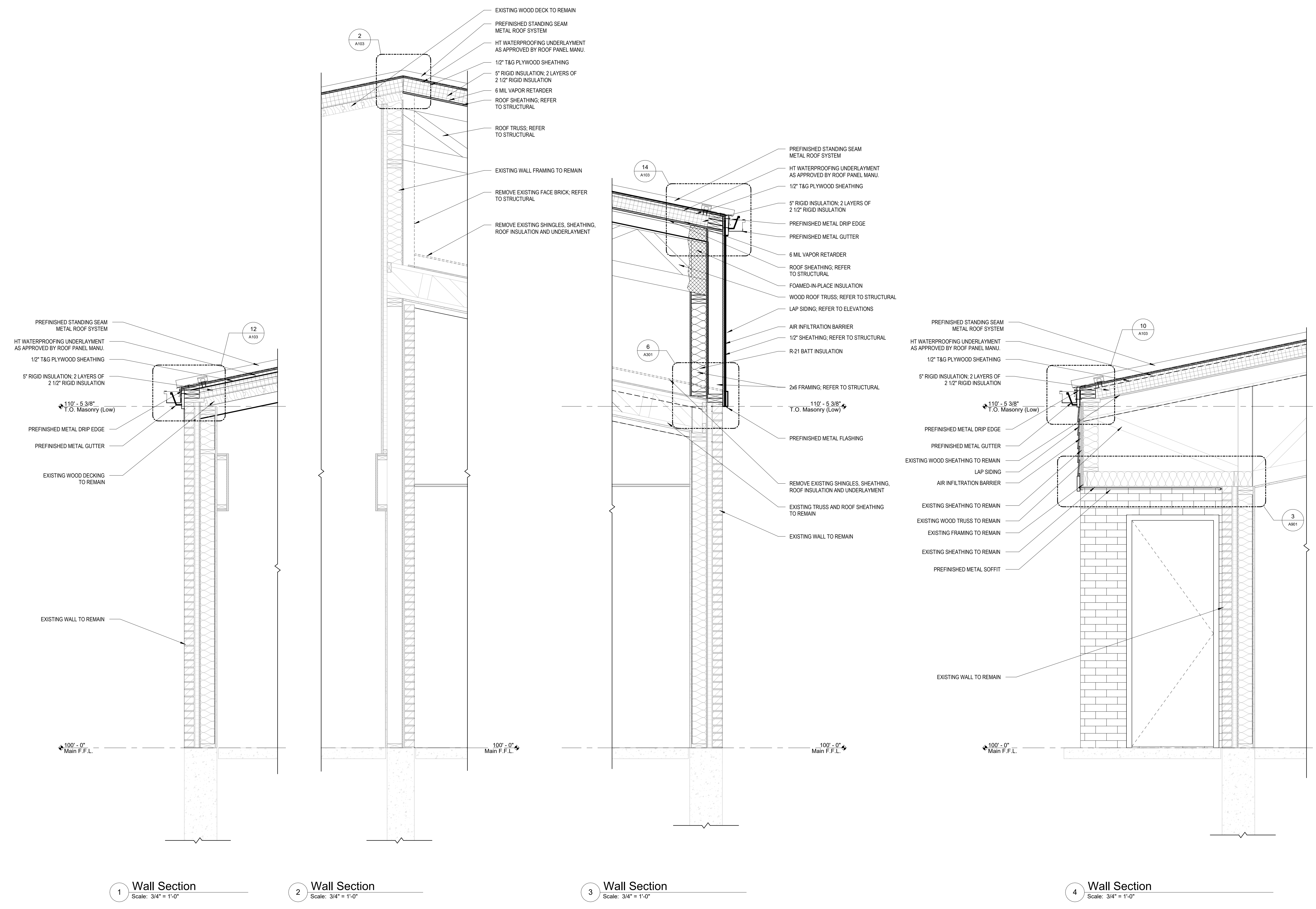
**J2 studio**  
architecture + design, pc

919 South 7th Street, Suite 400  
Bismarck, ND 58504  
(701) 255-1622

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Wall Sections

**A302**



REVISIONS		
MARK	DATE	DESCRIPTION

**Contract Documents**

February 11, 2026  
J2 Project No. J22528



**City of Bowman  
Bowman City Hall Roof  
Replacement  
Bowman, North Dakota**

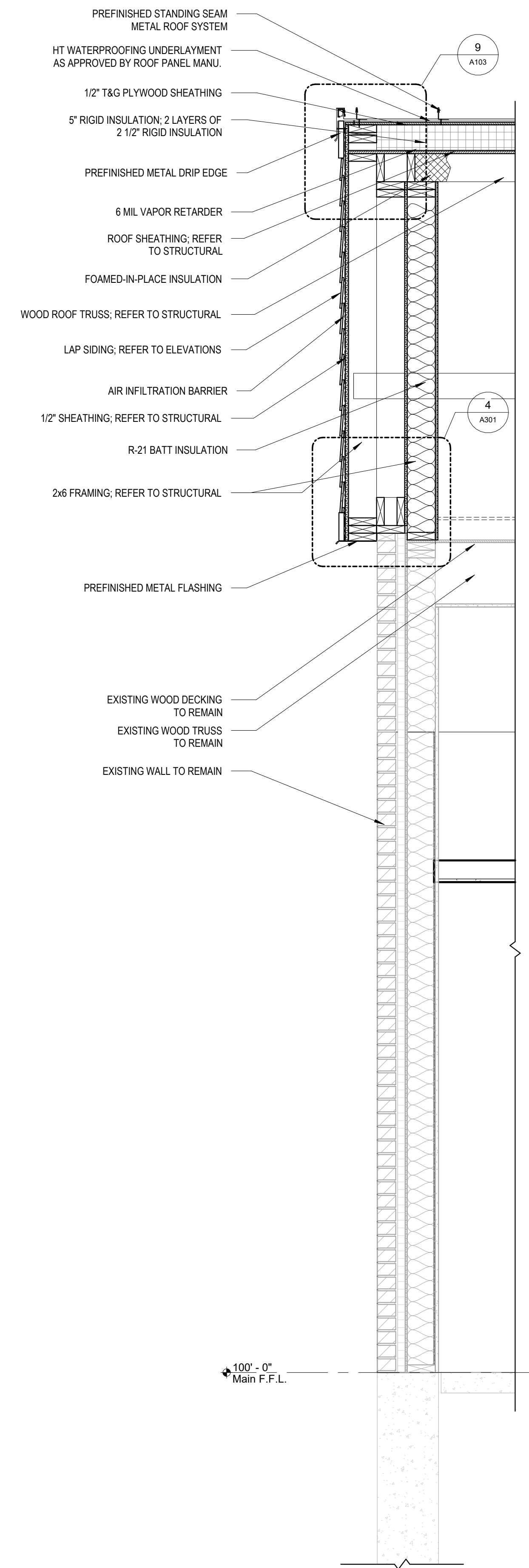
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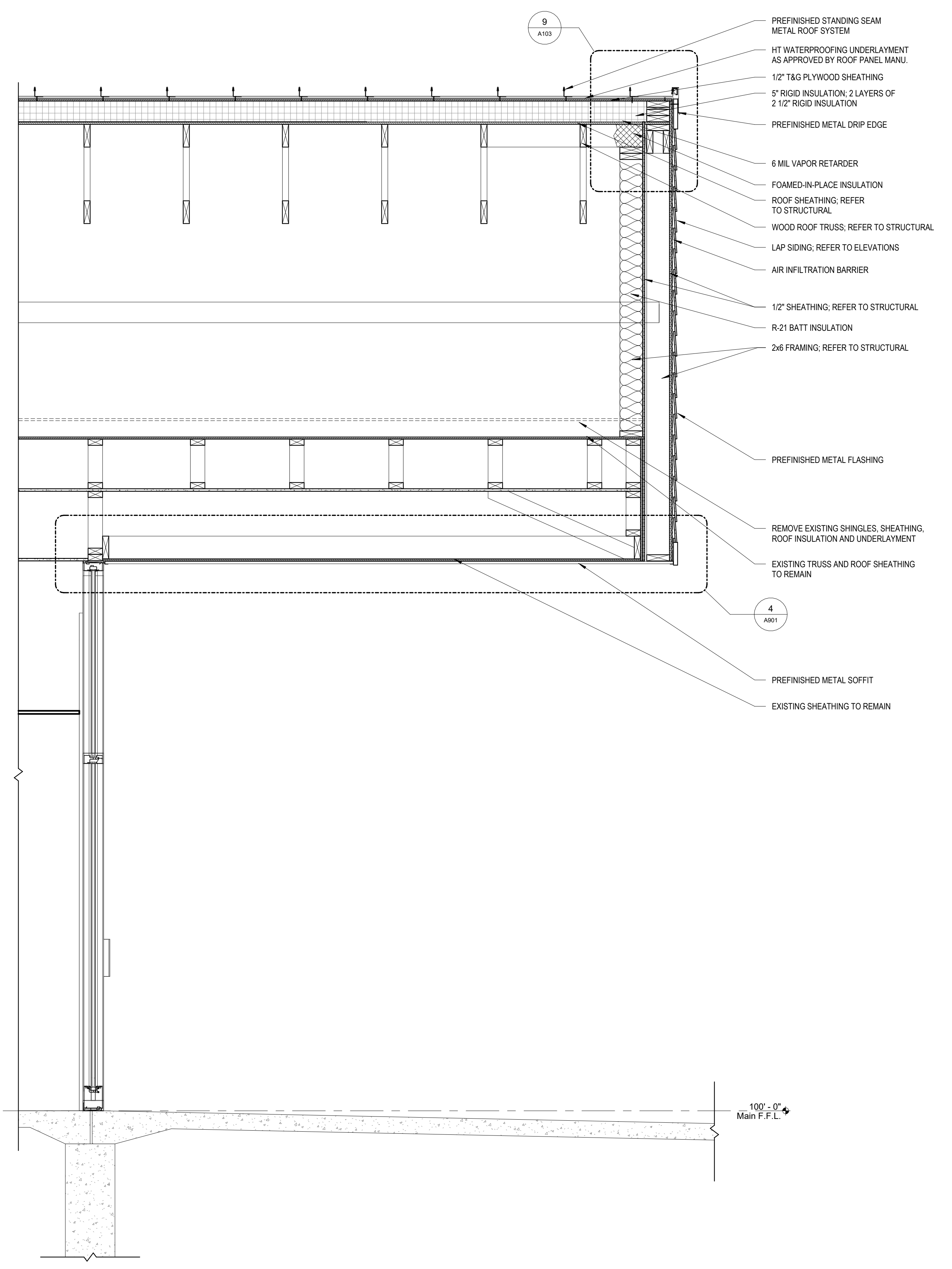
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Wall Sections

**A303**



**1 Wall Section**  
Scale: 3/4" = 1'-0"



**2 Wall Section**  
Scale: 3/4" = 1'-0"

REVISIONS		
MARK	DATE	DESCRIPTION

**Contract Documents**

February 11, 2026  
J2 Project No. J22528



**City of Bowman  
Bowman City Hall Roof  
Replacement  
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**Main Floor & Partial Reflected Ceiling Plans**

**A901**

**CEILING FINISH LEGEND:**

CEILING TYPE ———— ●  
CEILING FINISH ———— ●  
CEILING HEIGHT ———— ●  
CEILING FINISH NOTES ———— ●

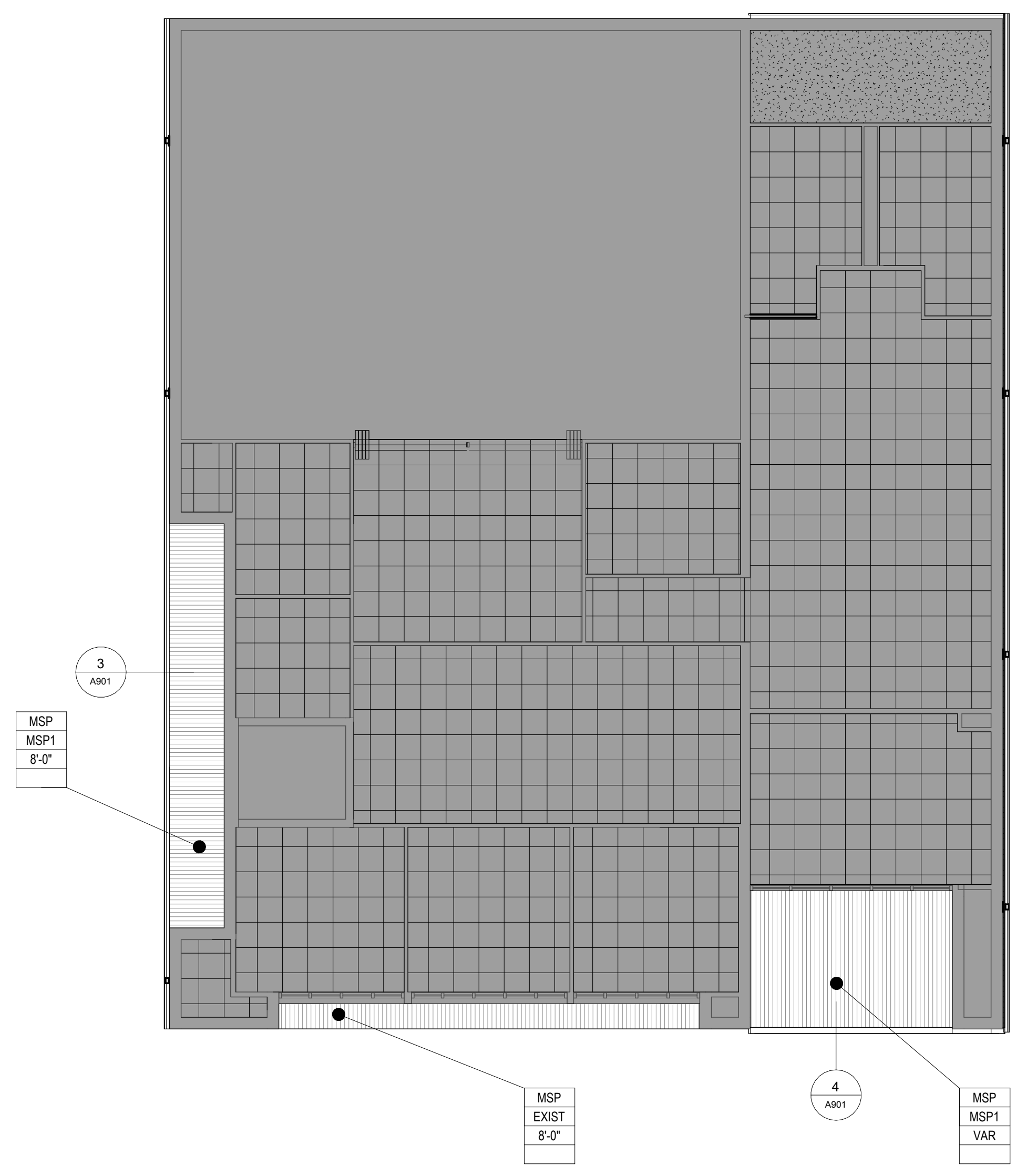
MSP - METAL SOFFIT PANEL

LIGHTING

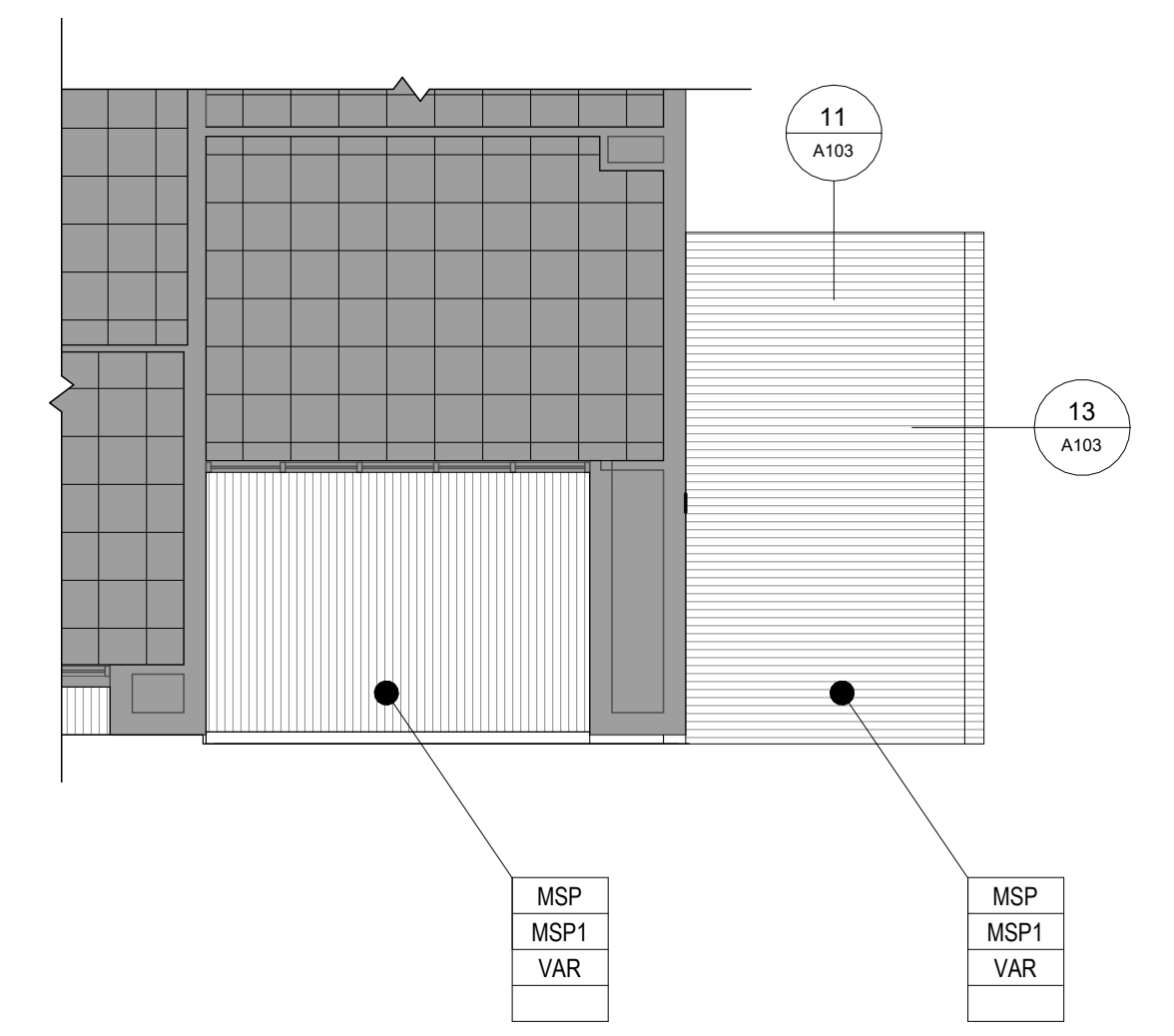
**CEILING FINISHES:**  
MSP1 - METAL SOFFIT PANEL; PAC-CLAD FLUSH SOFFIT PANEL; COLOR - DARK BRONZE.

**CEILING HEIGHT:**  
VAR - VARIES

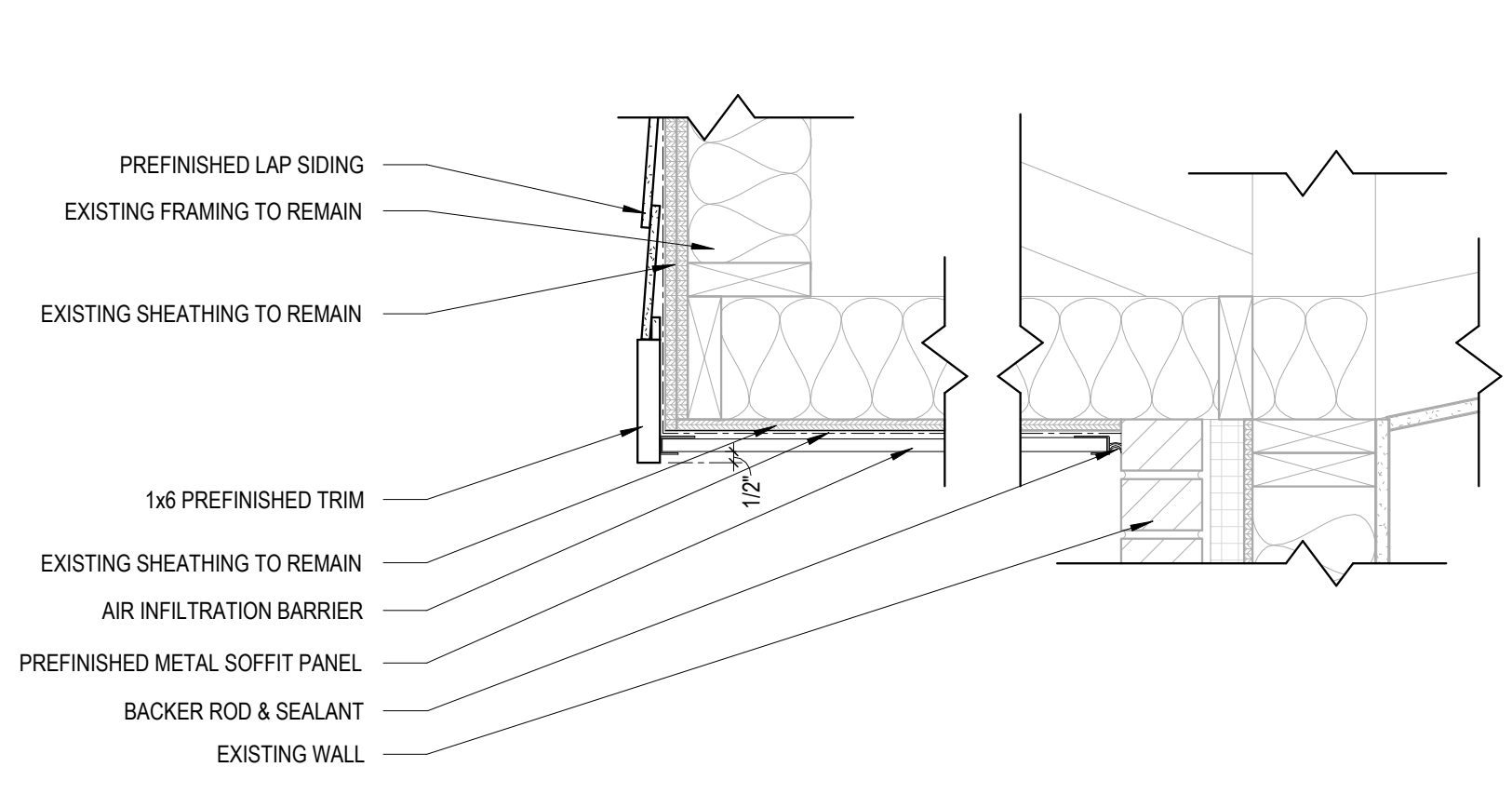
**CEILING FINISH NOTES:**  
1. EXISTING SOFFIT TO REMAIN.



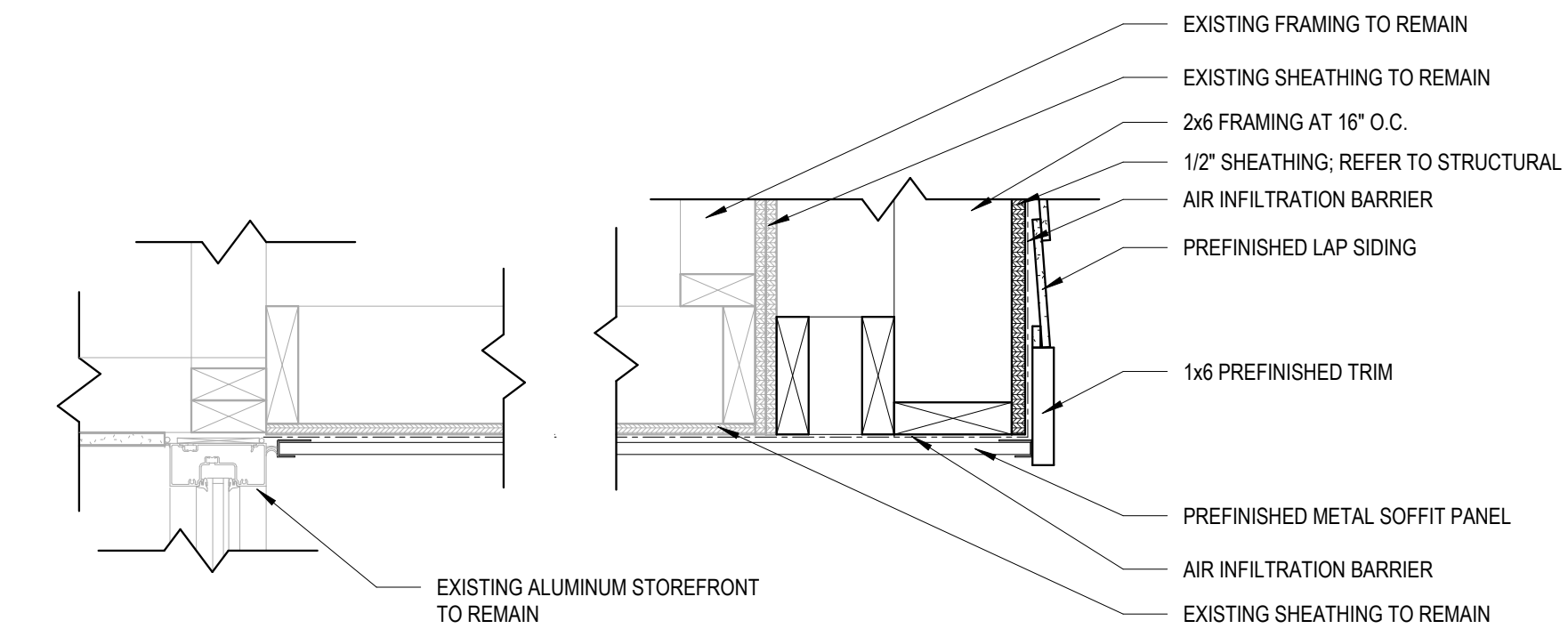
**1 Main Floor Reflected Ceiling Plan**  
Scale: 1/8" = 1'-0"



**2 Partial Main Floor Reflected Ceiling Plan (Alt. Bid)**  
Scale: 1/8" = 1'-0"



**3 Soffit Detail**  
Scale: 1 1/2" = 1'-0"



**4 Soffit Detail**  
Scale: 1 1/2" = 1'-0"

GENERAL STRUCTURAL NOTES

GENERAL DESIGN AND CONSTRUCTION:

- (1) All work shall comply with the 2021 International Building Code (IBC 2021).
(2) Where existing structural information could not be obtained (i.e. wood species, steel grades, foundation sizes, etc.)...
(3) Design Loads: Project Location: Minot, North Dakota
Wind loads: Per ASCE 7, Exposure Category 'C', W = 1.0
Basic wind speed (Mapped 3-second gust) = 112 mph (Risk Category II)
Snow Load: Per ASCE 7 (Also see plan for potential additional snow drifting)
Calculated Roof Snow, Pf = 30 psf
Ground Snow (Mapped), Pg = 35 psf, Is = 1.0, Ce = 1.0, Ct = 1.0
Seismic loads per ASCE 7 (Minot, ND)
Site class = D (Assumed), Ss = 0.066, Si = 0.022, Ie=1.0
Site coefficient, Fa = 1.6, Site coefficient, Fv = 2.4
Seismic Design Category A
Total Roof Dead Load = 20 psf (superimposed)
(4) Specific notes and details shall take precedence over General Structural Notes.
(5) The contract structural drawings and specifications represent the finished structure. Unless otherwise indicated, they do not indicate the means or method of construction. The contractor is solely responsible for the protection of the structure during all phases of demolition, construction and installation. Provide all measures necessary to protect the structure, workers or other persons by means of shoring, bracing and job site safety measures.
(6) Means-and-methods including temporary bracing and shoring against wind and erection is the responsibility of the contractor.
(7) No area of the structure shall be loaded with construction material or equipment that exceeds final design loading indicated.
(8) Holes, pipes, sleeves, etc. through structural framing and foundations that are not shown on the drawings are not acceptable.
(9) Contractor shall provide a cast-in sleeve where drain tile passes through footings or foundation walls.
(10) Structural engineer's seal on the plan does not provide for construction inspection of any kind.
(11) The cost for additional structural engineering services necessitated by contractor requests for an option or due to errors or omissions in construction shall be the contractor's responsibility.
(12) Shop drawings prepared by suppliers, subcontractors, etc. shall be dimensioned, reviewed, coordinated, and signed/stamped by the general contractor prior to submitting to the structural engineer. Manufactured components such as glulam beams and T&G decking shall be engineered and stamped by a licensed Professional Engineer in the state the project is being built prior to submission and shall include stamped calculations.
(13) Verify all dimensions and conditions of existing construction to be as shown on the drawings. Advise the Architect and Structural Engineer of variances prior to continuing with construction.
(14) Protect existing construction from damage due to construction of new additions. Make no cuts or alterations to existing construction other than those shown on the drawings without the approval of the Architect and Structural Engineer.
(15) CONTRACTOR may provide periodic observations to assure conformance with design intent of the construction documents. However, these observations are not meant to fulfill the requirements of the IBC required special inspections. CONTRACTOR is not considered a qualified "special inspector" as it relates to required building code. Refer to the Special Inspections.

STATEMENT OF SPECIAL INSPECTIONS:

- (1) Special inspections and structural testing shall be provided by an independent agency employed by the General Contractor or the items identified in this section and in other areas of the approved construction plans and specifications, unless waived by the Building Official (see IBC Chapter 17). All cost for all special inspections required and stated in this section of the General Structural Notes, along with all attached tables, shall be part of the General Contractors Bid. No additional costs may be charged to the owner for the cost of the required special inspections.
(2) Special inspections must be completed by independent agency and report directly to owner or architect. General contractor is required to pay special inspector, however G.C. is not allowed to provide special inspector or testing agency any directive. All reports and correspondence from special inspector or testing agency is to be sent directly to owner and/or architect, not the General Contractor. If any reports are submitted through the contractor to the owner or architect they will need to be resubmitted for approval. At the discretion of the architect, owner, or design team retesting may also be required, at the cost of the special inspector, if reports are not submitted correctly.
(3) The names and credentials of the Special Inspectors to be used shall be submitted to the Building Official for approval.
(4) Duties of the Special Inspector:
a. The Special Inspector shall review all work listed below for conformance with the approved construction plans and specifications and the IBC.
b. The Special Inspector shall furnish special inspection reports to the EOR, Contractor, Owner and Building Official on a weekly basis, or more frequently as required by the Building Official. All items not in compliance shall be brought to the immediate attention of the contractor for correction, and if uncorrected, to the EOR and the Building Official.
c. Once corrections have been made by the Contractor, the Special Inspector shall submit a final signed report to the Building Official stating that the work requiring special inspection was, to the best of the Special Inspector's knowledge, in conformance with the approved construction plans and specifications as well as the applicable workmanship provisions of the IBC.
(5) Duties and responsibilities of the Contractor:
a. The Contractor shall submit a written statement of responsibility to the Owner and the Building Official prior to the commencement of work. In accordance with IBC 1704.4, the statement of responsibility shall contain acknowledgement of the special inspection requirements contained within the "Statement of Special Inspections".
b. The Contractor shall notify the responsible Special Inspector that work is ready for inspection at least one work day (24 hours minimum) before such inspection is required.
c. All work requiring special inspection shall remain accessible and exposed until it has been observed by the Special Inspector.

(6) REQUIRED SPECIAL INSPECTIONS (Per IBC 2021):

CONCRETE (IBC Section 1705.3). Special inspections to be performed per "Required Special Inspection of Concrete Construction" table located within these construction documents and also called out in the IBC table 1705.3. (Exception: Special inspections are not required for concrete in the following cases:

- 1. Isolated spread concrete footings of buildings three stories or less above grade plane that are fully supported on earth or rock.
2. Continuous concrete footings supporting walls of buildings three stories or less above grade plane that are fully supported on earth or rock where:
2.1) The footings supporting walls of light-framed construction
2.2) The footings are designed in accordance with Table 1804.7 of the IBC.
2.3) The structural design of the footing is based on a specified compressive strength, Fc, not more than 2,500psi, regardless of the compressive strength specified in the approved construction documents or used in the footing construction.
3) Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi.
4) Concrete foundation walls constructed in accordance with Table 1807.1.6.2.
5) Concrete patios, driveways and sidewalks, on grade.)

STRUCTURAL WOOD (IBC Section 1705.11.1 & IBC Section 1705.11.3). Continuous special inspection is required during field gluing operations of elements of the main windforce-resisting systems. Periodic special inspection is required for nailing, bolting, anchoring, and other fastening of elements of the main windforce-resisting system, including wood shear walls, wood diaphragms, drag struts, braces, and hold-downs. (Exception: Special inspections are not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring, and other fastening to other elements of the main windforce-resisting system where fastener spacing of the sheathing is more than 4 inches on center.)

WIND-RESISTING COMPONENTS (IBC Section 1705.11.3). Periodic special inspection is required for fastening of the following systems and components:
1.) Roof coverings, roof deck, and roof framing connections.
2.) Exterior wall covering, and wall connections to roof and floor diaphragms and framing (i.e. Wood Studs, Steel Studs, CMU walls, etc.)

SOIL (IBC Section 1705.6). Special inspections to be performed per Table 1705.6 located both in the IBC and within these construction documents.

STRUCTURAL STEEL & STEEL JOISTS (IBC Section 1705.2, 1705.11.4, 1705.12, and AISC 360). Special inspections to be performed per "Required Special Inspection of Structural Steel" table located within these construction documents and also called out in the IBC & AISC.

(7) Please see the "Special Inspection Schedules/Tables" for the types, extents and frequency of specific items requiring special inspections and structural tests as part of this project. The tables indicated in the special inspection tables are guidelines to the required inspection and testing required by the building code for the particular building. The IBC and referenced testing/inspection standards shall be reviewed and followed by the inspecting agency to ensure that all required testing/inspection and procedure for testing/inspection is achieved.

FOUNDATIONS:

(1) Assumed Geotechnical Design Values - All concrete foundation designs are based on assumed geotechnical design values to be confirmed by a Geotechnical Engineer. All foundation excavations must be observed and all assumed design values stated below shall be verified in writing by a licensed Geotechnical Engineer following on-site observation prior to fabricating steel and placing concrete any concrete. All assumed geotechnical design values are as follows:

- A. Minimum Soil Bearing Capacity = 2000 psf
B. Backfill Soil Unit Weight (gamma) = 110 pcf (dry)
C. Maximum Lateral Pressure Values (Granular Backfill with Dranitle):
1. Active Pressure: 41 pcf
A1-Resilient Modulus: 60 pcf
3. Passive Pressure: 250 pcf
4. Coefficient of Friction (Concrete on Soil): 0.35

- (2) All footings shall bear on natural, undisturbed soil. All natural bearing material shall be approved in writing by a licensed Geotechnical Engineer prior to placing footing concrete.
(3) All seepage shall be continuously pumped from excavations until the Geotechnical Engineer of Record determines such seepage no longer impacts the bearing soils or Engineered Fill or construction of footings and floor slabs.
(4) Positive drainage shall be obtained away from the structures and care required for backfilling and drainage of utility trenches during construction shall be provided per the Geotechnical Report and the Civil drawings.
(5) Excavations shall be performed in accordance with all governing safety regulations including OSHA. There shall be no surcharge load from vehicles, equipment, materials, soil piles etc. near the crest of the excavation slopes per the Geotechnical Report. The responsibility for excavation safety and temporary construction slopes lies solely with the Contractor.
(6) Clean Footing excavations of snow, water, mud, loose soil and debris prior to placing footing concrete.
(7) Footings may not be earth formed.
(8) All footings are centered under the piers, columns or walls they support, except as noted otherwise.
(9) Excavations and backfill shall be executed and tested in accordance with the project specifications and soils report.

- (10) Footing excavations shall be to proper line and level to insure minimum concrete cover of footing reinforcement for footing depth.
(11) Backfill shall be compacted by mechanical means.
(12) Backfill shall not be placed against foundations until walls have been adequately braced either temporarily or permanently with new construction fully installed at the top and base of the walls, the concrete has attained sufficient strength to resist lateral pressure and has adequate durability.
(13) Protect all foundations from the action of water and freezing.
(14) See mechanical, electrical and architectural drawings for all openings and inserts not shown on the structural drawings. All openings and inserts shall be placed prior to casting concrete.
(15) Non-Frost susceptible granular fill is to consist of granular material with less than 5% passing the #200 sieve and no more than 40% passing the #40 sieve.

CONCRETE:

(1) Concrete mix design(s) shall be by an independent testing laboratory and shall be submitted to the Architect and Structural Engineer for approval at the responsibility of the General Contractor.

(2) Concrete Mix Designs: All cement is to be Portland Limestone Cement (PLC) meeting ASTM C595 with cement type as indicated in the following mix design(s) and with maximum alkali content (NAeq) = 0.60%.

Footings are to have a concrete mix design consisting of Type 1L cement (6 sack min.) and a 28-day compressive strength of 4000 psi, 25% max fly ash allowed, 1 1/2" max aggregate size, 4" max slump, 0.43 max water-to-cement ratio, no air entrainment, water reducing admixture ok.

Concrete Piers are to have a concrete mix design consisting of PLC Type 1L (6 sack min.) and a 28-day compressive strength of 4000 psi, 25% max fly ash allowed, 3/4" max aggregate size, 4" max slump, 0.43 max water-to-cement ratio, no air entrainment, water reducing admixture ok, mid range plasticizer ok, super plasticizer requires prior approval.

Flowable Fill Concrete (Controlled Density Fill - CDF) is to have a minimum compressive strength of 150 psi and a maximum strength of 200 psi and is to consist of water, Portland Lime Cement, Fine aggregate and Flyash to be self-leveling not needing vibration or compaction with a density of 100 to 125 pcf.

Grout for steel base plates and bearing plates is to be of the non-shrink non-metallic type meeting ASTM C1107 with a maximum slump of 3" and a minimum 28-day compressive strength of 5000 psi. Follow manufacturer's directions for use.

(3) Concrete aggregate shall meet ASTM C33 with a maximum shale or deleterious material content of 1%.

(4) Fly Ash of "Type C meeting Class F" may be substituted by weight for cement up to maximum limits indicated in each concrete mix design.

(5) Mid-Range Plasticizer meeting ASTM C494 Type D is acceptable if noted in mix design. Mix is to have a maximum slump as indicated above for the particular mix design prior to adding the Mid-Range. Adjust air content as required by the supplier due to the use of the Mid-Range and its projected effect on the air content. Test for air after Mid-Range addition to achieve range specified. Slump is to be tested to meet that specified above for particular mix design prior to adding Mid-Range Plasticizer and no additional water may be added after slump test.

(6) Air Entraining agents shall meet ASTM C260.

(7) Concrete construction shall conform to the ACI building code requirements for reinforced concrete, ACI 318.

(8) Hot Weather Concrete per ACI 308R and Cold Weather Placement per ACI 308R shall be followed where weather conditions warrant.

(9) Forms shall be left on all walls for a minimum of 2 days or longer as required at the discretion of the contractor.

(10) A continuous bond break, such as 3/8" asphaltic fiber board expansion joint material, shall be placed between the concrete slab and the perimeter foundation walls.
(11) All concrete pours shall be tested for strength (per ASTM C31 and C39), slump and air content. Test one cylinder at 7 days, one at 14 days, two at 28 days and hold one cylinder.
(12) All concrete reinforcing shall meet ASTM specification A615, Grade 60.

(13) Reinforcing steel shall be bent and placed in accordance with the ACI code. All tension splices shall be class B, 48 bar diameters, minimum. All compression splices shall be 40 bar diameters (minimum), unless noted otherwise. Lap all corner bars.

(14) Concrete cover for reinforcing shall be per ACI 318.

(15) All vertical wall and pier bars must be extended to 2" of the top of foundation walls unless shown otherwise on the drawings. All horizontal foundation wall bars must be placed within 4" of the top and bottom of the wall unless shown otherwise.

(16) All epoxy-set rebar doweling to concrete shall be HILTI HIT-HY 200 safe Set System with HILTI Hollow Drill Bit System, Dewalt AC208 with Dustx + Hollow Drill Bit System, or equal, except as noted otherwise. Install per manufacturer's recommendations.

(17) All adhesive anchor installations in the horizontal to vertically overhead orientation shall be conducted by a certified adhesive anchor installer as certified by ACI per ACI 318-11 4.2.2 or ACI 318-14 17.8.2.2 or ACI 318-19 17.2.3 or approved equivalent. Current ACI certificate must be submitted to the engineer of record for approval prior to commencement of any adhesive anchor installations.

STRUCTURAL STEEL:

(1) Structural steel work is to be per AISC specifications. Steel grade shall be Grade B (Fy=46 ksi) for cold-formed steel tubes and ASTM A36 (Fy=36ksi) for other shapes except as noted otherwise on the drawings.

(2) Columns shall be erected true and plumb. Provide temporary bracing.

(3) Bearing plates for steel columns shall be dry packed with dry grout as specified.

(4) All bolts in structural steel connections shall be ASTM F3125, Group A, standard heavy hex head or twist-off tension control (TC) High-Strength bolts, except as noted otherwise.

(5) All anchor rods for structural steel columns shall be ASTM F1554, Grade 36 (Fy=36ksi) threaded rod with a nut on the embedded end as indicated on the drawings. All anchor rods shall be cast-in-place only - no post installed anchors.

(6) No field welds are to be made until the members are properly aligned. Field welds are to be made by competent certified welders using proper electrodes and amperage.

(7) All exterior exposed structural steel support framing and beam bearing shoes/saddles, etc shall be hot-dip galvanized G90, shop prime painted and shop or field finish painted with exterior weather resistant paint. Paint shall have a minimum applied dry thickness of 6 mils total, which includes primer, mid-coat, and top-coat. Paint over connections and do not disassemble structural framing. Steel fabricator to coordinate shop & field painted coats with contractor.

WOOD AND TIMBER CONSTRUCTION:

(1) All sawn lumber, sheathing, engineered lumber, and timber construction shall conform to job notes and specifications as well as American Wood Council (AWC), and American Institute of Timber Construction (AITC) standards.

(2) All dimensional lumber in contact with concrete shall be treated and shall consist of pressure treated Southern Yellow Pine No. 2 or better with design values per the current ANSI/APA/NFA National Design Specification (NDS) Supplement. Design values will vary based on the width of the member.

(3) All dimensional structural framing members including beams, joists, etc (2" to 4" thick x 2" and wider) noted and shown on the plans as "treated" shall be pressure treated Southern Yellow Pine No. 1 grade with the following minimum material properties; bending stress of 1,000 psi, shear parallel to grain stress of 175 psi, compression parallel to grain stress of 1,400 psi, compression perpendicular to grain stress of 565 psi and modulus of elasticity of 1,600,000 psi.

(4) All wood construction shall conform to Chapter 23 of the International Building Code (IBC), except as noted otherwise. All nailing shall conform to Table 2304.10.2 "Fastening Schedule" of the International Building Code unless those requirements noted on the plans and specifications are more strict.

(5) Holes in sawn lumber shall be as specified in the International Building Code (IBC).

(6) Dimension lumber used for headers and jamb members shall be free of checks and splits.

(7) No notching of studs, joists, rafters, beams or trusses is permitted without the engineer's approval. Holes bored in the stud or joist shall be in the middle one-third of the depth and the diameter of any such hole shall not exceed one-fourth the depth of the member.

(8) Fastening of structural wood members shall be as specified and as detailed.

(9) All construction adhesive for wood-to-wood, wood-to-steel, wood-to-concrete shall meet Performance Specifications APA AFG-01 and ASTM D-3498 and shall have a minimum shear strength at 28 days of 400 psi. G-C. To follow all manufacturer's recommendations for adhesive installation time, temperature, conditions, and coverage, provided that the full surface area of both members/surfaces to be bonded are covered w/ adhesive as recommended.

(10) All fasteners including nails, screws, anchor bolts, etc. and connectors in contact with treated lumber or sheathing shall be hot-dip galvanized with a minimum G90 coating, including all fasteners from wall studs to treated wall sill plates.

(11) All exterior exposed framing connectors and fasteners per IBC 2304.10.5 must meet ASTM A653, Type G185 zinc-coated galvanized steel, stainless steel or equivalent.

(12) All Laminated Veneer Lumber (LVL) shall be Pacific Wood Tech PWT treated and shall have an allowable bending stress of 3,100 psi, compression perpendicular to grain stress (parallel to glue line) of 250 psi, compression parallel to grain stress of 2,800 psi, horizontal shear stress perpendicular to glue line of 235 psi, and modulus of elasticity of 2,000,000 psi.

TRUSSES:

(1) Roof trusses shall be designed and fabricated by a "Truss Plate Institute" (TPI) member fabricator and shall be fabricated to TPI standards.

(2) Truss fabricator to design and show size and location of permanent and erection bracing perpendicular to trusses on truss shop drawings (to be installed by general contractor).

(3) The Contractor shall be responsible for all erection, handling, installation, restraint and blocking of Metal Plate Connected Wood Trusses per the current Building Component Safety Information (BCSI) by SBCE and TPI as well as the current HB-91 (Commentary and Recommendations For Handling Installing 4 Bracing Metal Plate Connected Wood Trusses by the Truss Plate Institute (TPI)).

(4) Roof trusses are to be designed for 30 psf snow load and 20 psf dead load at top chords and 10 psf dead load at bottom chords.

(5) Roof trusses are to be designed for L/360 live load deflection and L/240 total load deflection.

(6) Truss member overall dimensions, bearing points, top and bottom chord configuration, bearing heel height and bearing points shall be as shown on the contract documents. Overall truss design including web member configuration, member sizes, connector plates, etc. by truss fabricator shall be based on loads indicated.

(7) Truss fabricator to furnish shop drawings including proposed truss member design, overall layout plan and lateral bracing to be completed and sealed by a licensed professional engineer in the state the project is being built.

(8) Handling of trusses and erection bracing is the responsibility of the contractor. The contractor shall provide temporary and permanent diagonal lateral and cross bracing until roof sheathing, ceilings, and permanent bracing can be applied and shearwalls completed.

(9) Truss supplier shall provide design of all permanent and temporary lateral bracing of all truss members as required to maintain strength, stability and serviceability of trusses to support the required loads under construction as well as in service.

(10) Provide solid blocking between trusses at bearings and along hip and ridge lines. Nail deck to blocking at ridge and hip lines. Provide intermediate bridging as required by truss design.

HORIZONTAL WOOD STRUCTURAL PANEL SHEATHING (ROOFS):

(1) ROOF SHEATHING DIAPHRAGM - All exterior roof sheathing shall be a minimum of 1 1/2" Exposure 1 rated plywood sheathing (with a 24/16 APA Span Rating) conforming to DOC PS 1, DOC PS 2, or CSA O37 or CSA O325. All panels shall be identified with a grade mark of certificate of inspection issued by an APA approved agency. Panels are to be unblocked except that edges of all panels shall be supported on truss, joist, or blocking at roof edges as detailed. Sheathing shall be fastened with 10d common or galvanized box nails (galvanized nails shall be hot-dipped or tumbled) at 6" o.c. at panel edges and at 12" o.c. at intermediate framing members. Nails are to have a minimum penetration of 1 1/2" into framing members and are to be located not less than 3/8" from edges of panels and framing.

(2) All roof panel sheathing shall be oriented with the strength axis perpendicular to the supports.

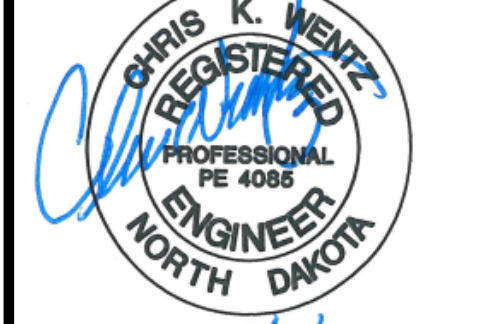
(3) Roof sheathing panels shall be continuous over three or more spans (minimum).

REVISIONS

Table with columns: MARK, DATE, DESCRIPTION

Contract Documents

February 11, 2026
J2 Project No. J22528
CW PROJECT NO. C2570P



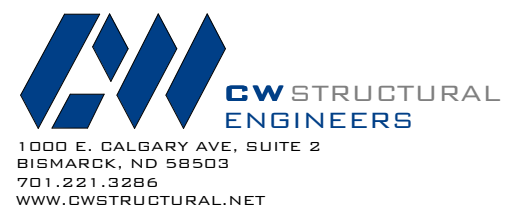
City of Bowman
Bowman City Hall Roof
Replacement
Bowman, North Dakota



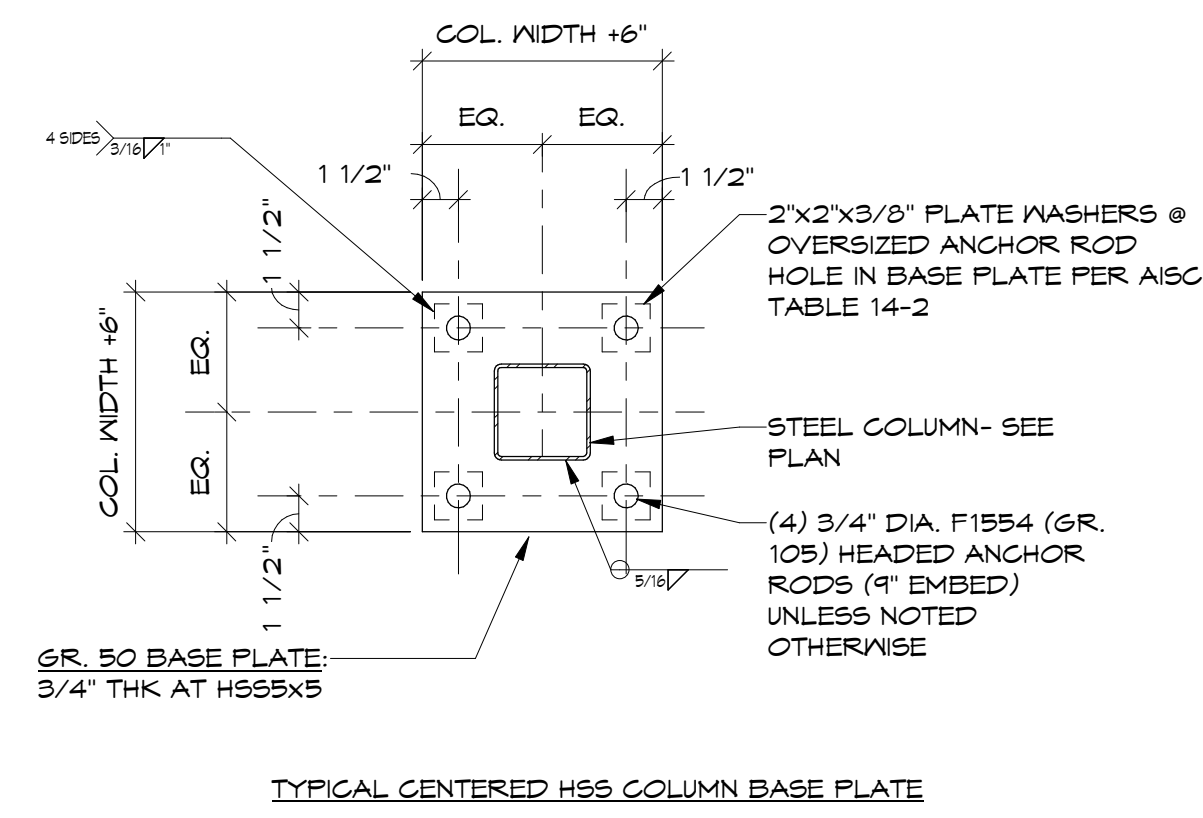
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GENERAL STRUCTURAL NOTES

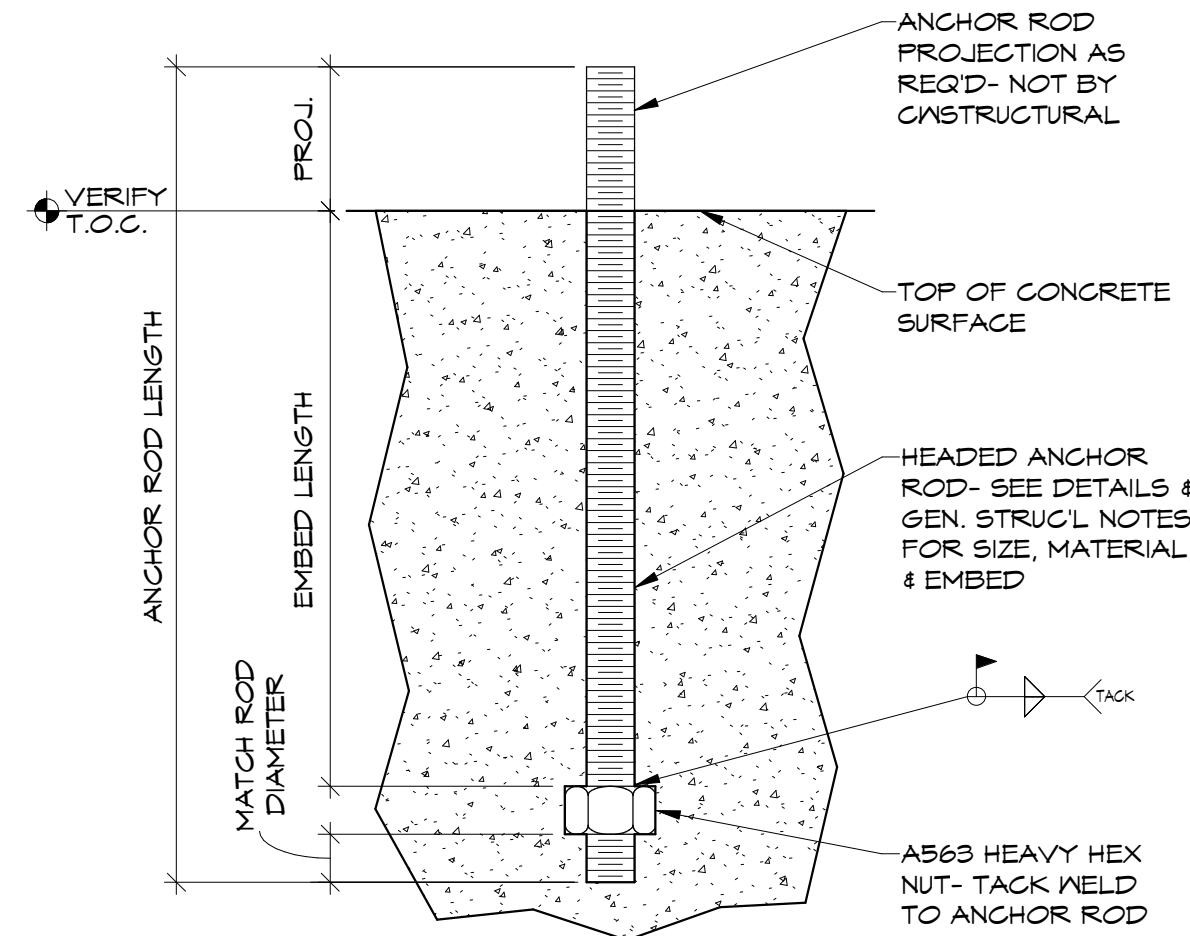
S001



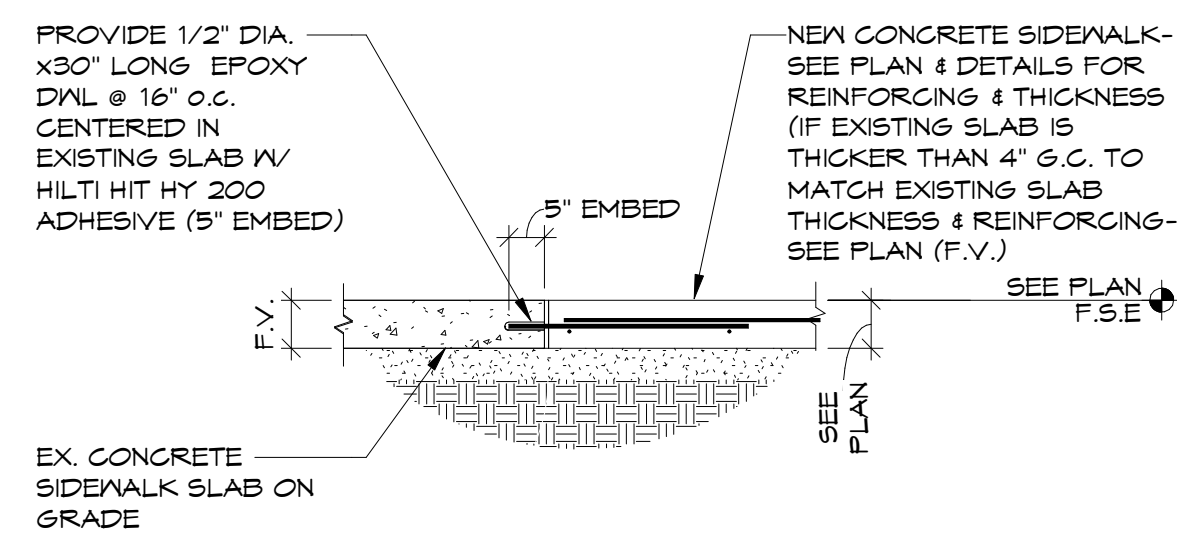




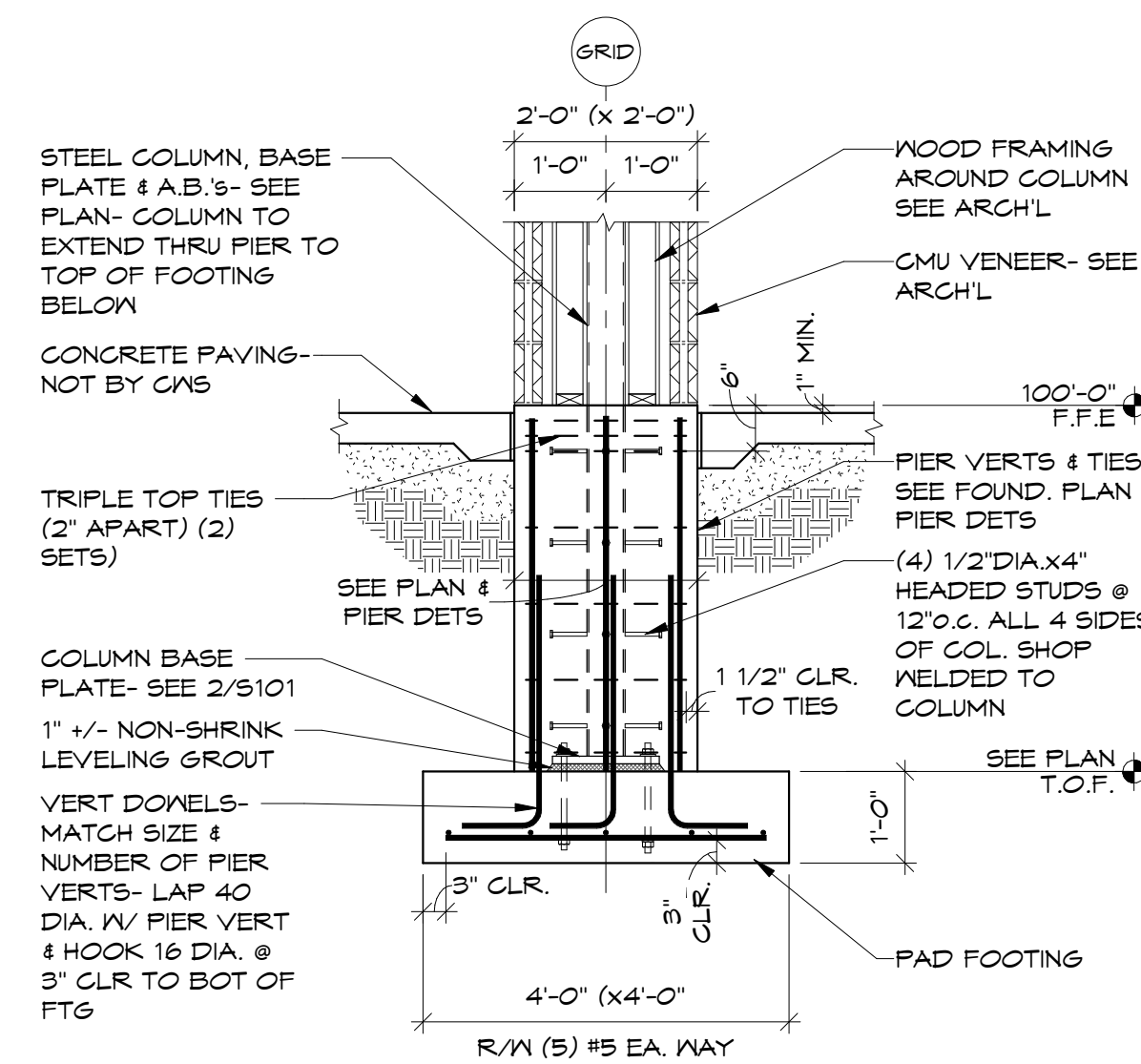
2 "TYPE 1" COLUMN BASE PLATE  
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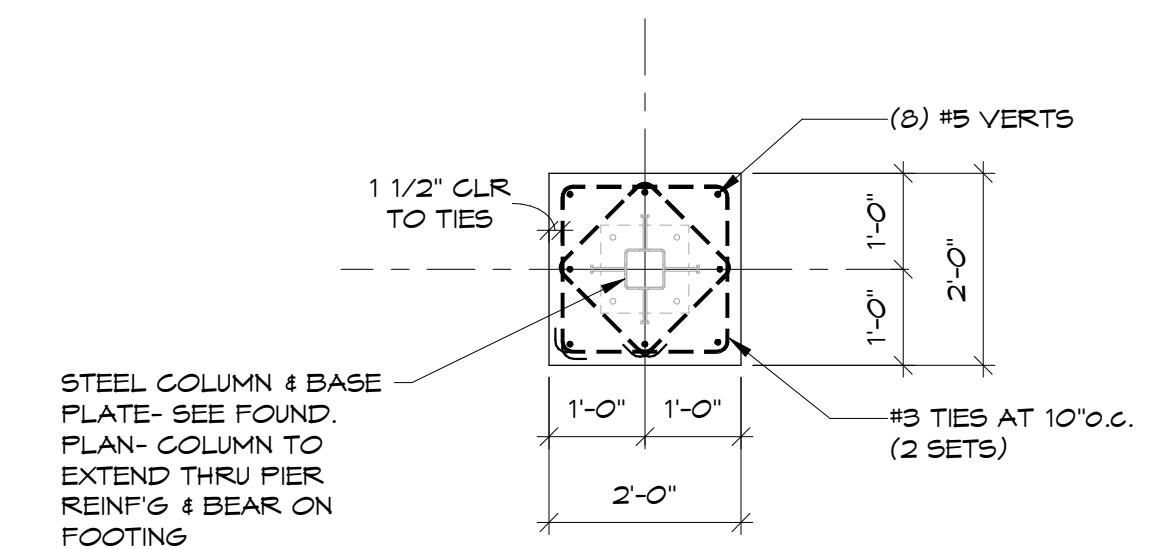
3 TYP. HEADED ANCHOR ROD  
SCALE: 1/2" = 1'-0"



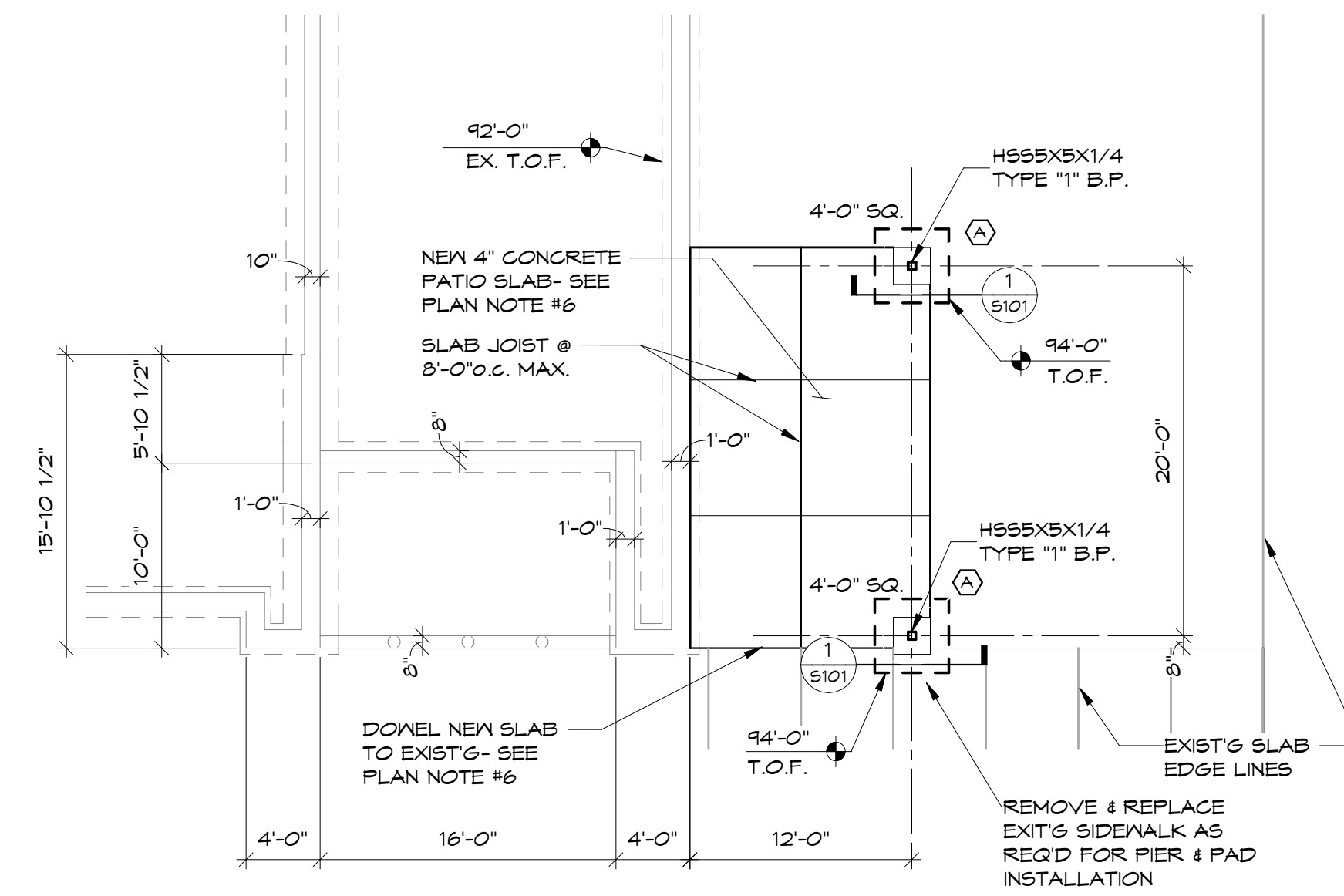
4 TYP. NEW SLAB DOWEL TO EX. SLAB  
SCALE: 1/2" = 1'-0"



1 EXTERIOR PIER FOUND. DETAIL MAIN ENTRY  
SCALE: 1/2" = 1'-0"



A EXTERIOR PIER DETAIL  
SCALE: 1/2" = 1'-0"



ANOPY FOUNDATION PLAN- ALT. G1  
SCALE: 1/8" = 1'-0"

- PLAN NOTES:
- (1) ALL PAD FOOTINGS ARE CENTERED BELOW THE COLUMN THEY SUPPORT - SEE FOUNDATION PLAN & PAD FOOTING SCHEDULE FOR SIZE & REINFORCING. SEE TYPICAL FOUNDATION DETAILS FOR COLUMN BASE PLATE INFORMATION.
  - (2)  $\frac{1}{8}XX-0'$  T.O.F. INDICATES TOP OF FOOTING ELEVATION.
  - (3) "EX." & "EXISTG" INDICATES EXISTING CONSTRUCTION. EXISTG MEMBER SIZES & DIMENSIONS ARE ASSUMED- FIELD VERIFY AS REQ'D.
  - (4) "F.V." INDICATES THAT DIMENSION IS TO BE FIELD VERIFIED PRIOR TO MATERIAL FABRICATION, CONCRETE CONSTRUCTION, OR STEEL FABRICATION ETC...
  - (5) (X) INDICATES PIER DETAIL- REFER TO PIER DETAILS LOCATED ON SHEET S101 FOR PIER SIZE AND REINFORCING
  - (6) 4" CONCRETE SLAB ON GRADE R/W #4'S @ 24" O.C. EA. WAY- SEE G.S.N. FOR SLAB BASE. DOWEL TO EXISTG SLAB ON GRADE PER DETAIL 4/S101.

REVISIONS		
MARK	DATE	DESCRIPTION

Contract Documents

February 11, 2026  
J2 Project No. J22528  
CW PROJECT NO. C2570P



City of Bowman  
Bowman City Hall Roof  
Replacement  
Bowman, North Dakota

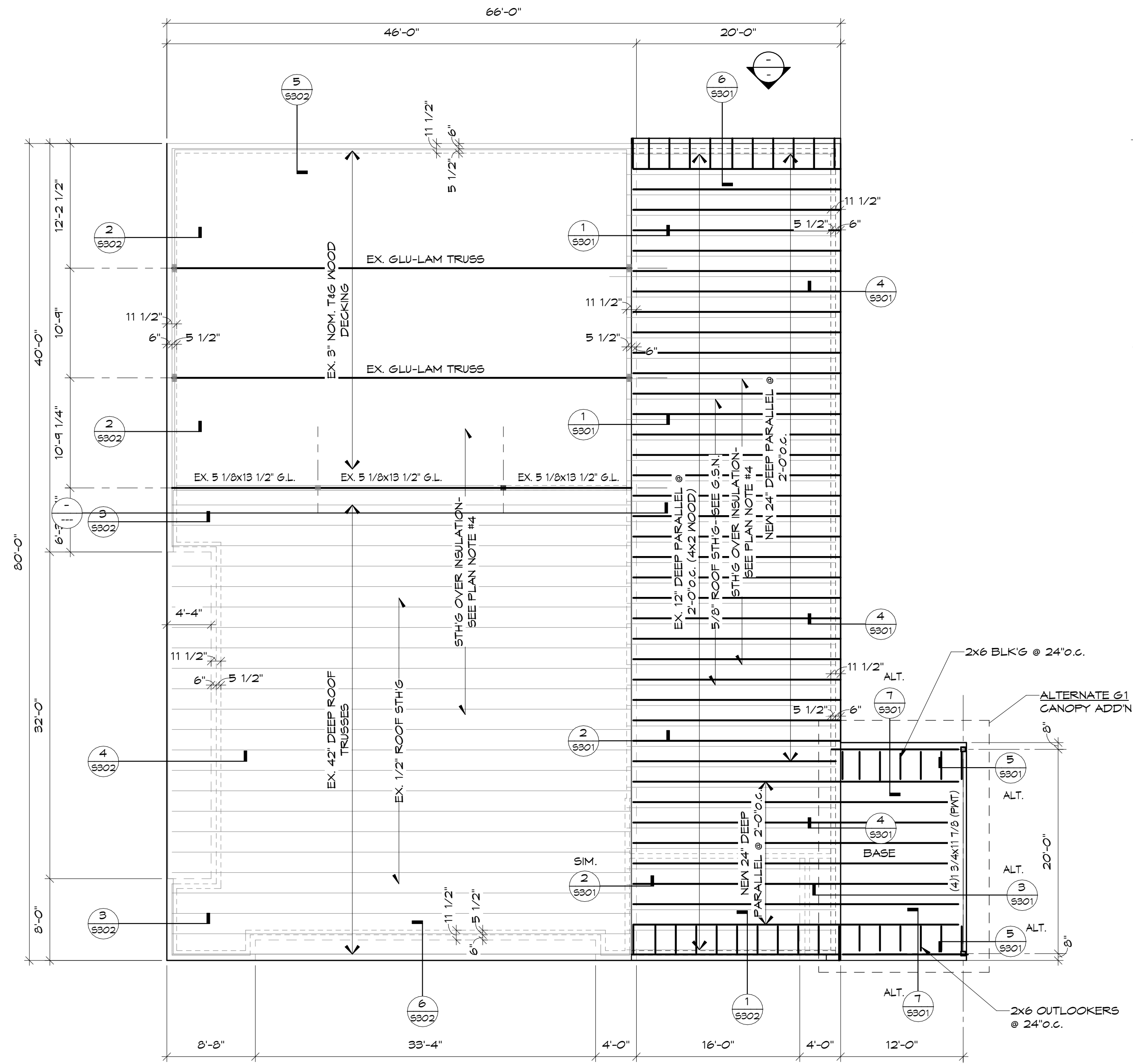


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ALT.  
CANOPY  
FOUNDATION  
PLAN &  
DETAILS

S101





**EXIST'G/ NEW ROOF FRAMING PLAN**

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

- PLAN NOTES:**
- (1) "EX." & "EXIST'G" INDICATES EXISTING CONSTRUCTION. EXIST'G MEMBER SIZES & DIMENSIONS ARE ASSUMED- FIELD VERIFY AS REQ'D.
  - (2) "F.V.:" INDICATES THAT DIMENSION IS TO BE FIELD VERIFIED PRIOR TO MATERIAL FABRICATION, CONCRETE CONSTRUCTION, OR STEEL FABRICATION ETC...
  - (3) CANOPY ON EAST SIDE IS ALTERNATE G1
  - (4) ROOF SHEATHING OVER INSULATION ANCHORAGE TO ROOF- SEE ARCH'L. "DO NOT" SCREW THRU TAG WOOD DECKING & ANCHORS OVER THE REMAIN ROOF SHOULD TRY ANCHORING TO ROOF TRUSSES.

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**City of Bowman  
 Bowman City Hall Roof  
 Replacement  
 Bowman, North Dakota**



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**EXIST'G/NEW ROOF OVERBUILD FRAMING PLAN**

**S201**



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**City of Bowman  
Bowman City Hall Roof  
Replacement  
Bowman, North Dakota**

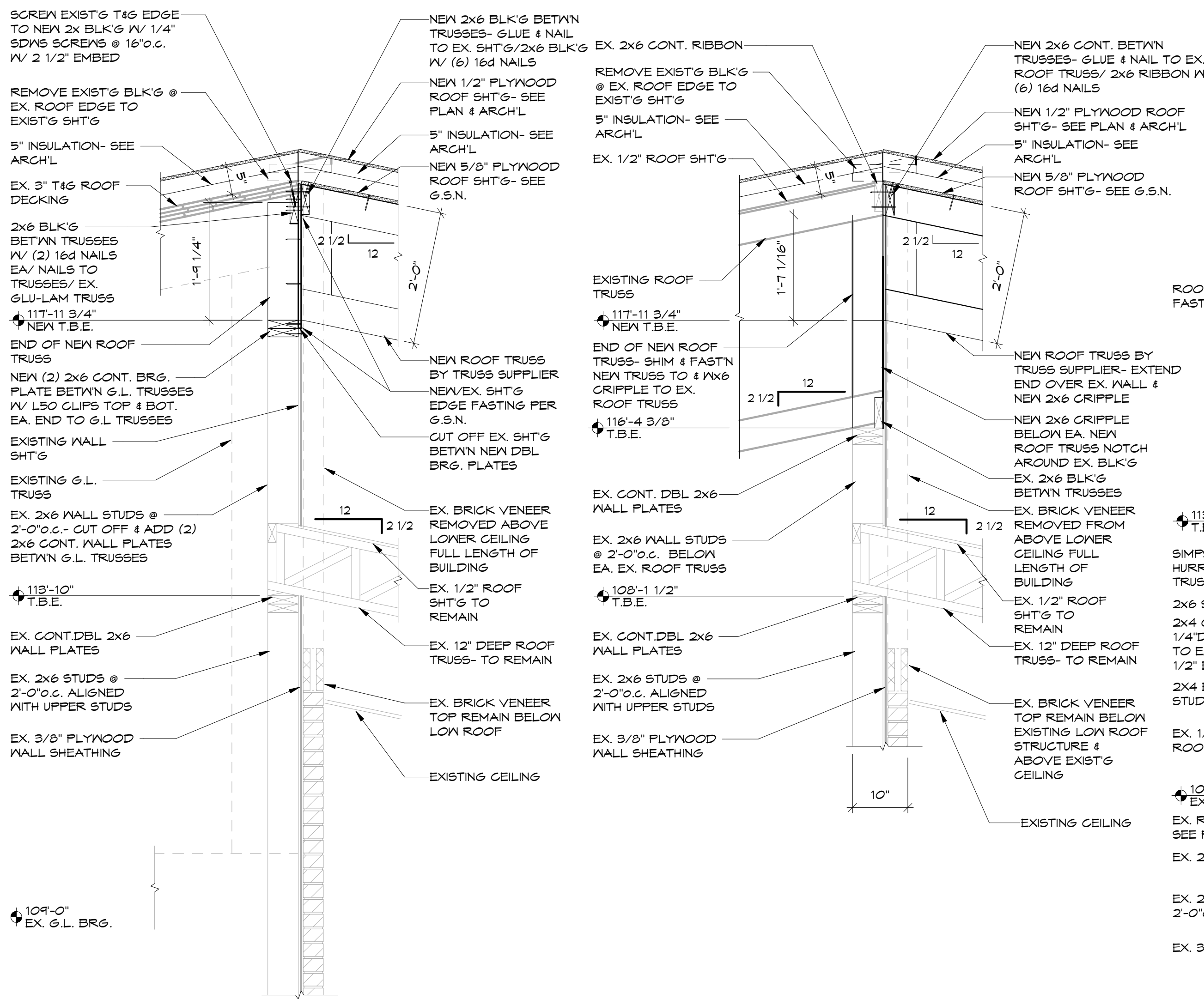


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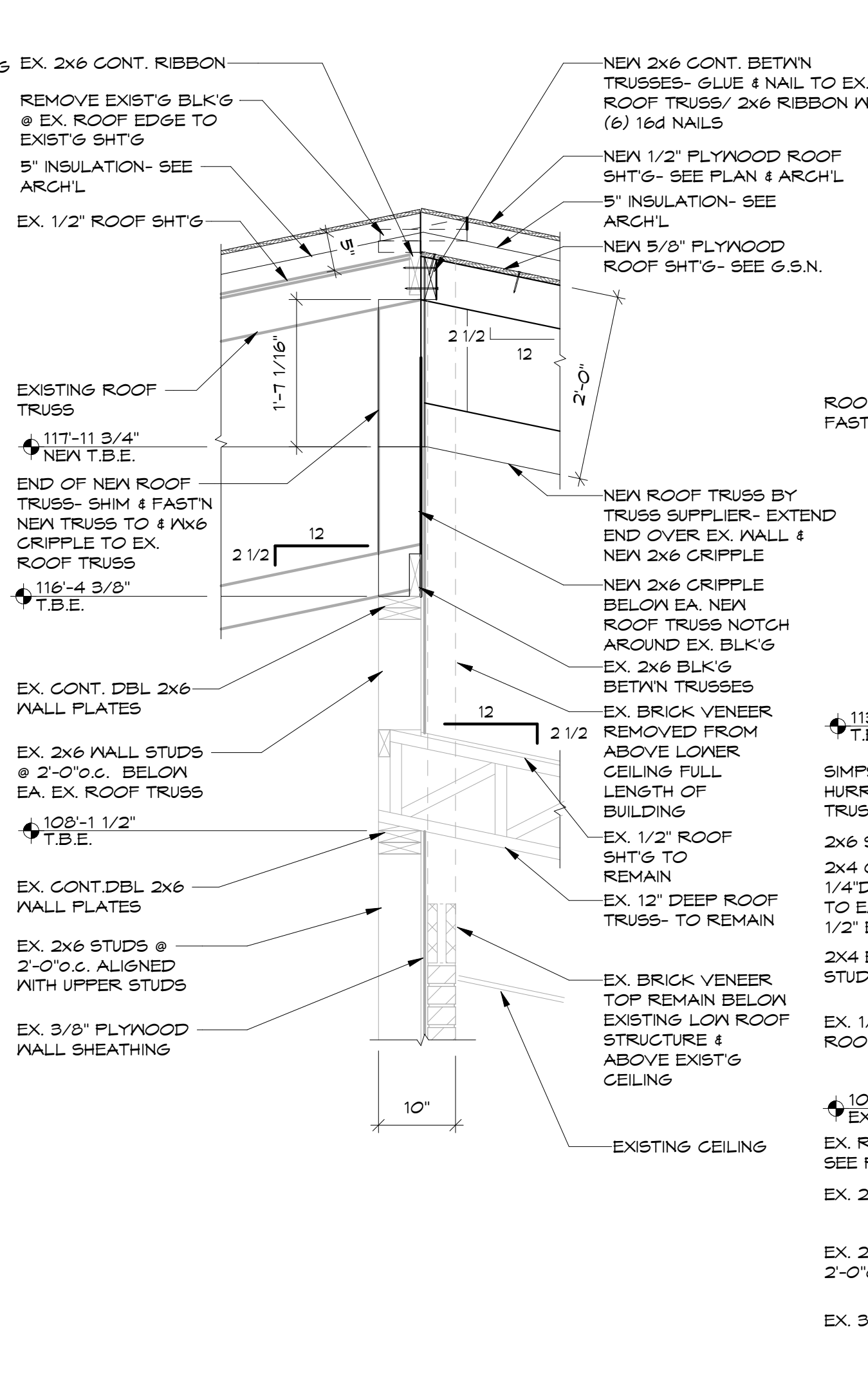
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**ROOF FRAMING DETAILS**

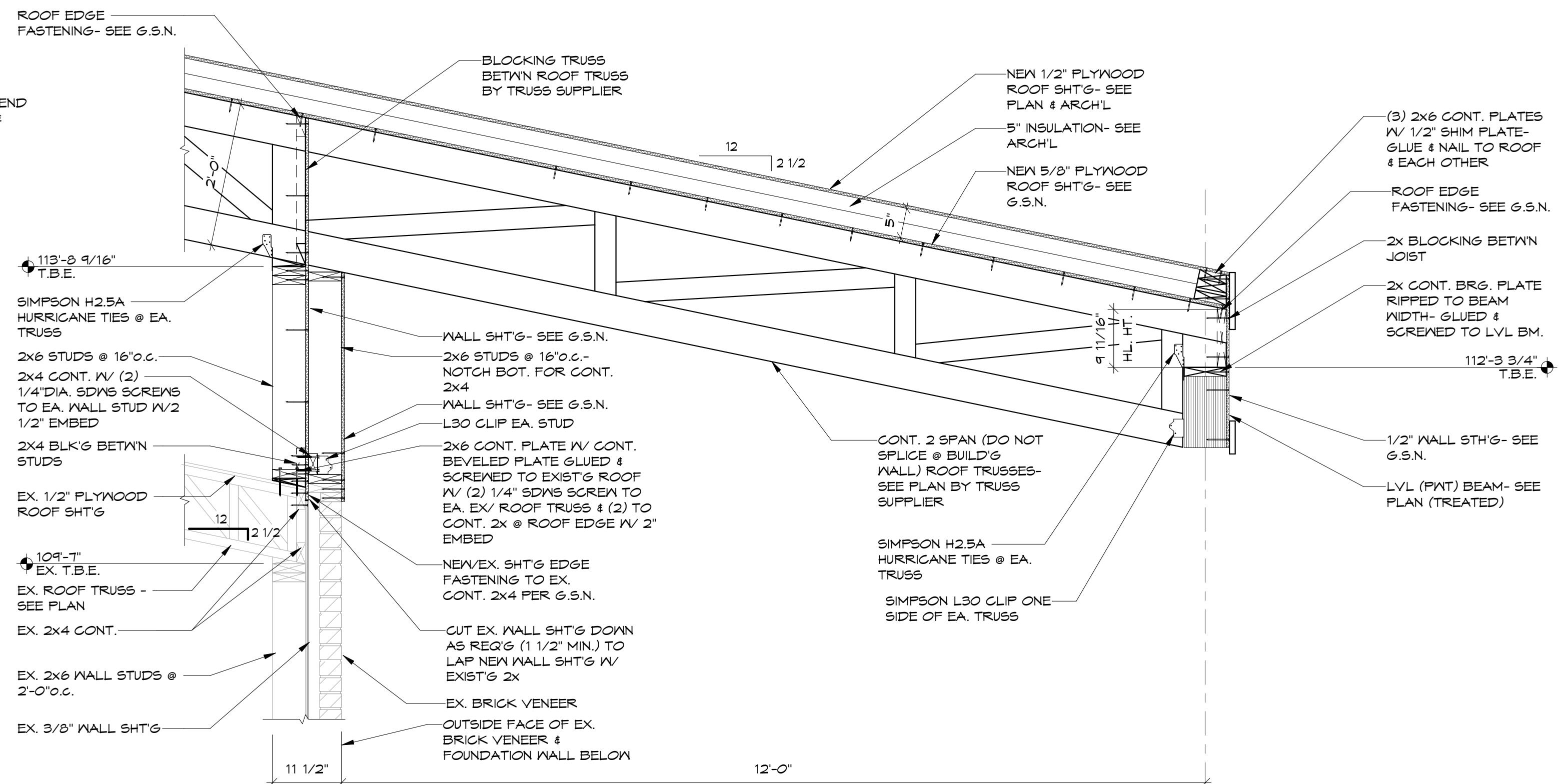
**S301**



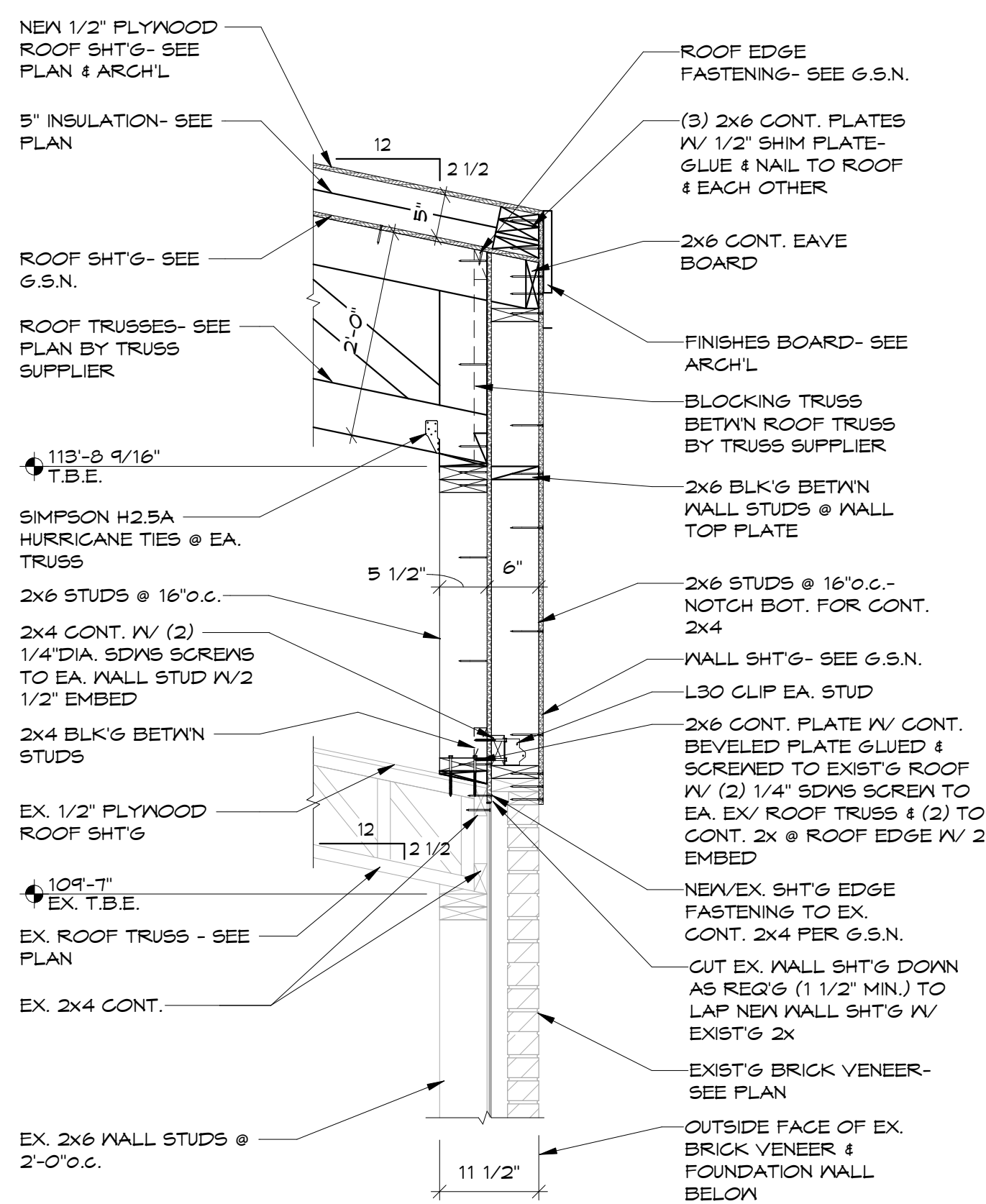
**1 EXISTING & NEW ROOF TRUSS BRG. DETAIL**  
SCALE: 3/4" = 1'-0"



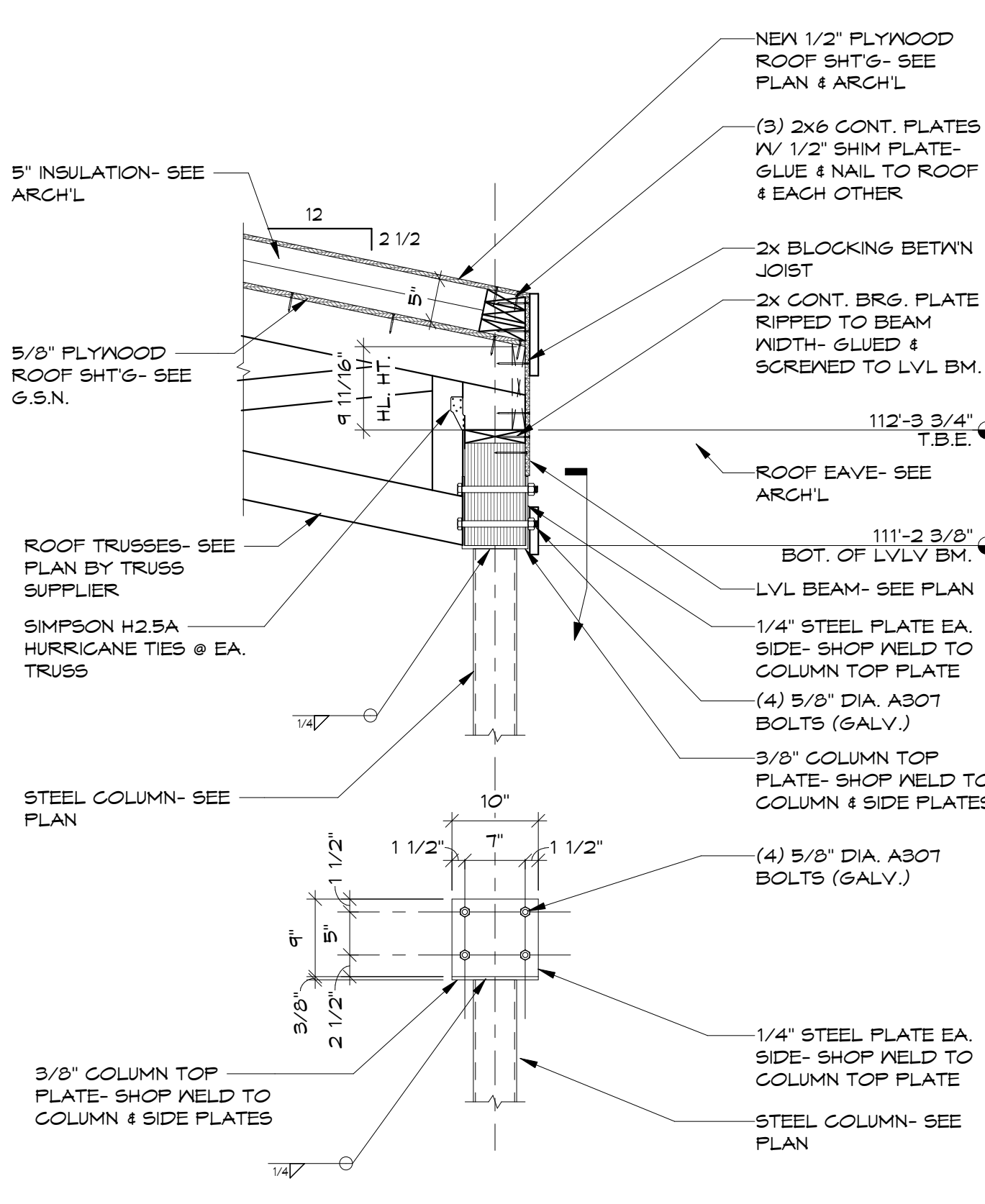
**2 EXISTING & NEW ROOF TRUSS BRG. DETAIL**  
SCALE: 3/4" = 1'-0"



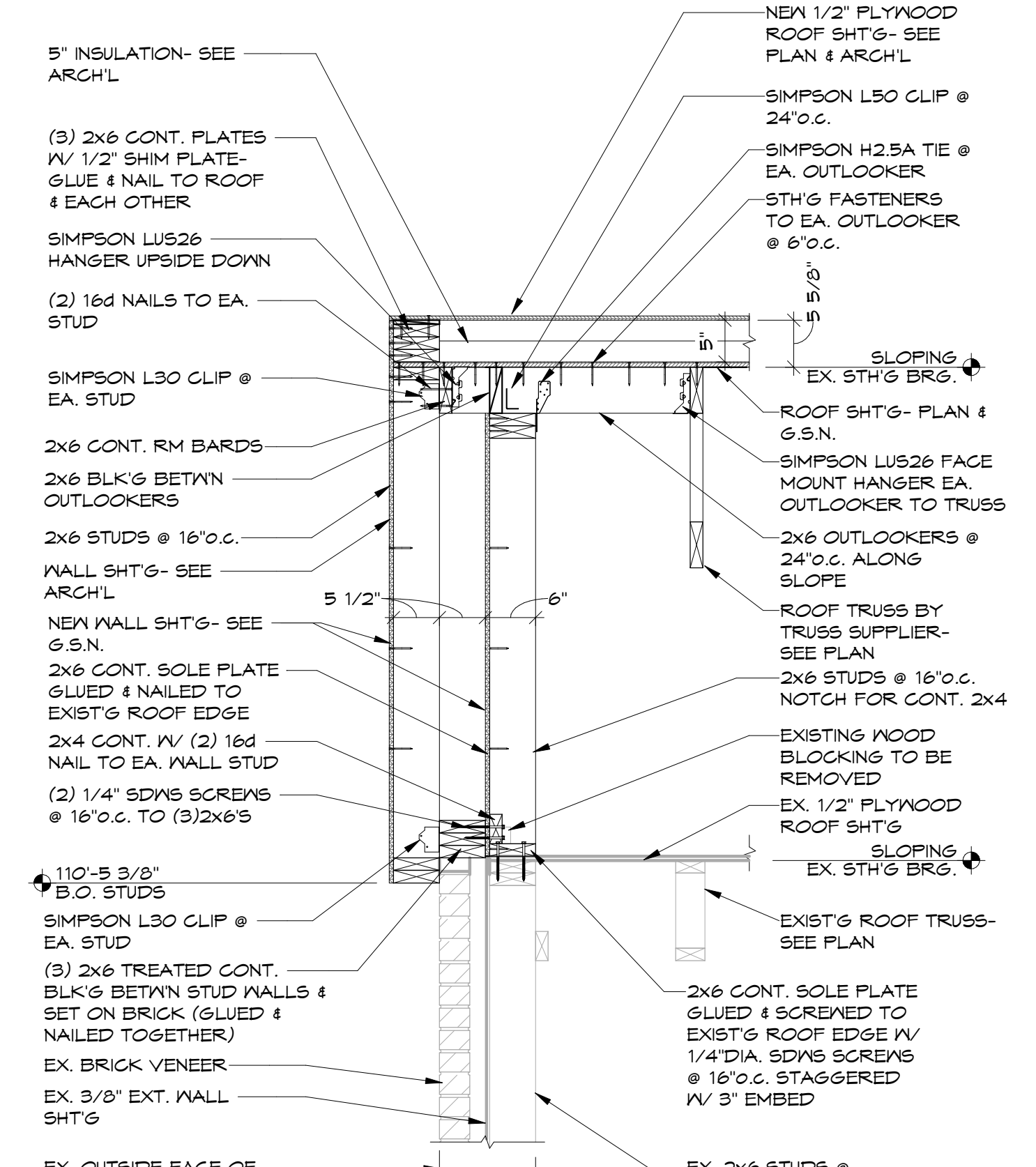
**3 ALTERNATE G1 EXIST'G ROOF EDGE W/ OVERBUILD TRUSS @ CANOPY**  
SCALE: 3/4" = 1'-0"



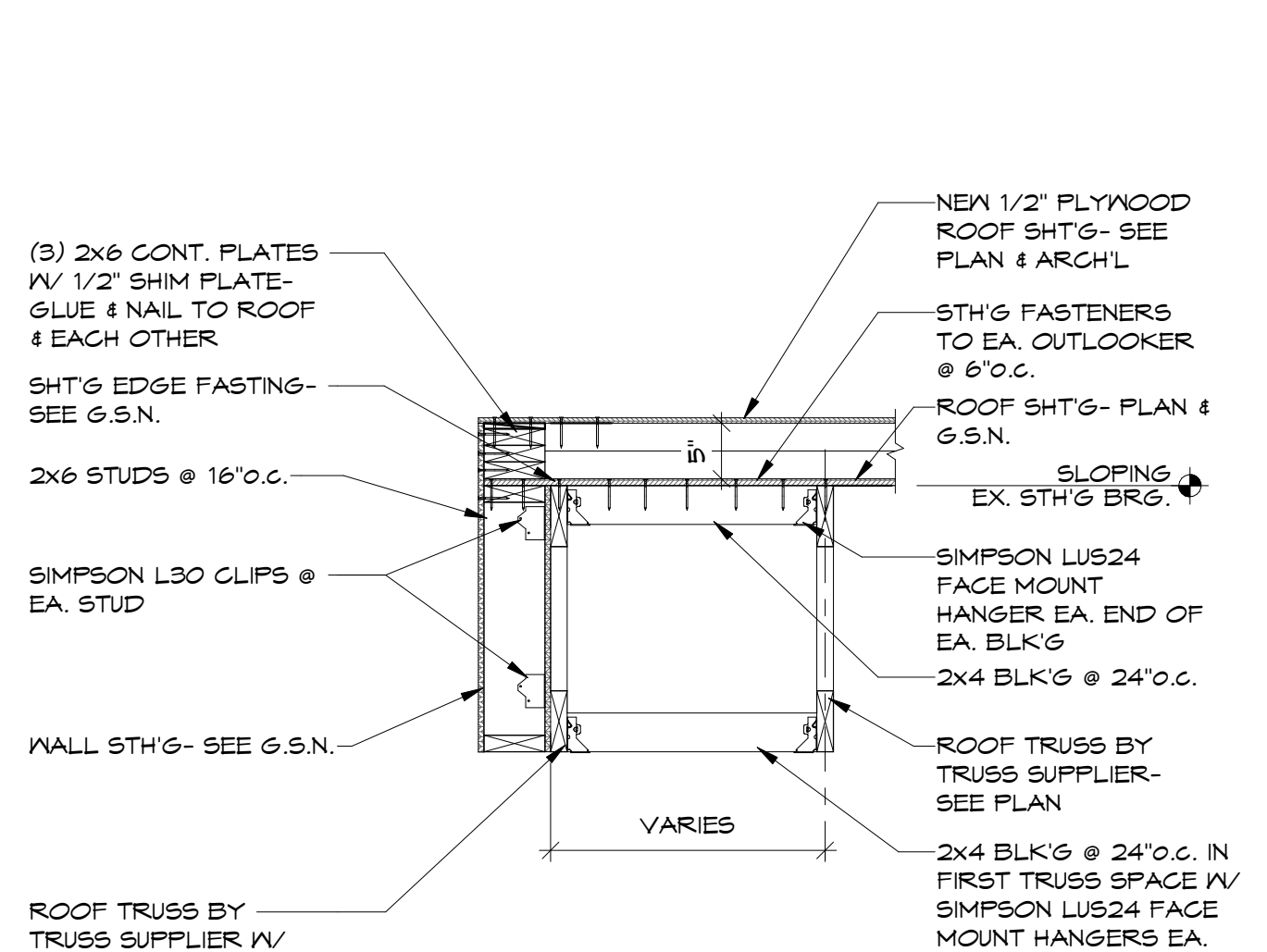
**4 EXIST'G ROOF EDGE W/ OVERBUILD TRUSS BRG.**  
SCALE: 3/4" = 1'-0"



**5 ALTERNATE ROOF BEAM BEARING ON COLUMN**  
SCALE: 3/4" = 1'-0"



**6 EXIST'G ROOF EDGE @ OVERBUILD ROOF**  
SCALE: 3/4" = 1'-0"



**7 ALTERNATE CANOPY ROOF EDGE DETAIL**  
SCALE: 3/4" = 1'-0"



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J2 Project No. J22528

CW PROJECT NO. C2670P



**City of Bowman  
Bowman City Hall Roof  
Replacement  
Bowman, North Dakota**

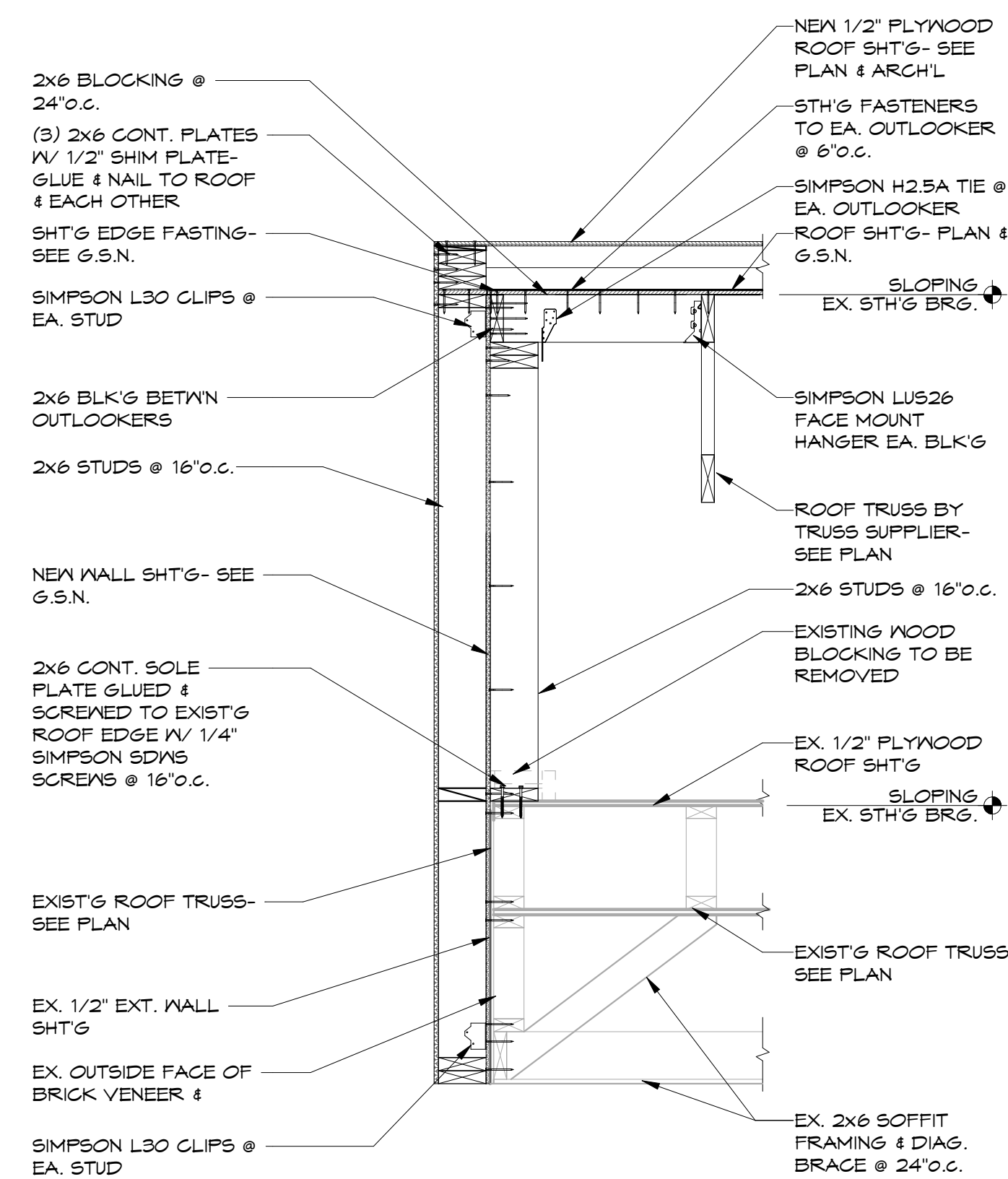


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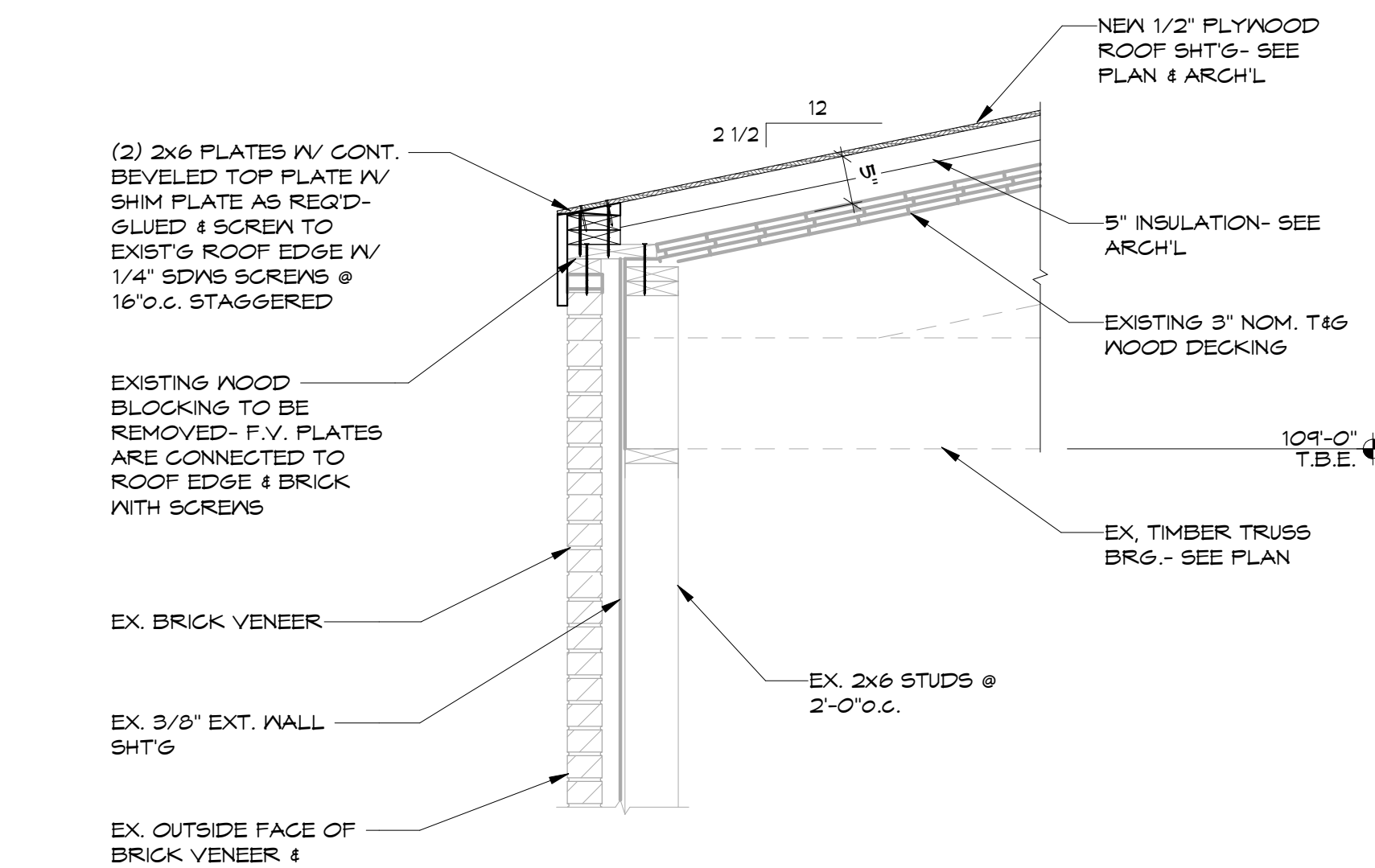
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**ROOF FRAMING DETAILS**

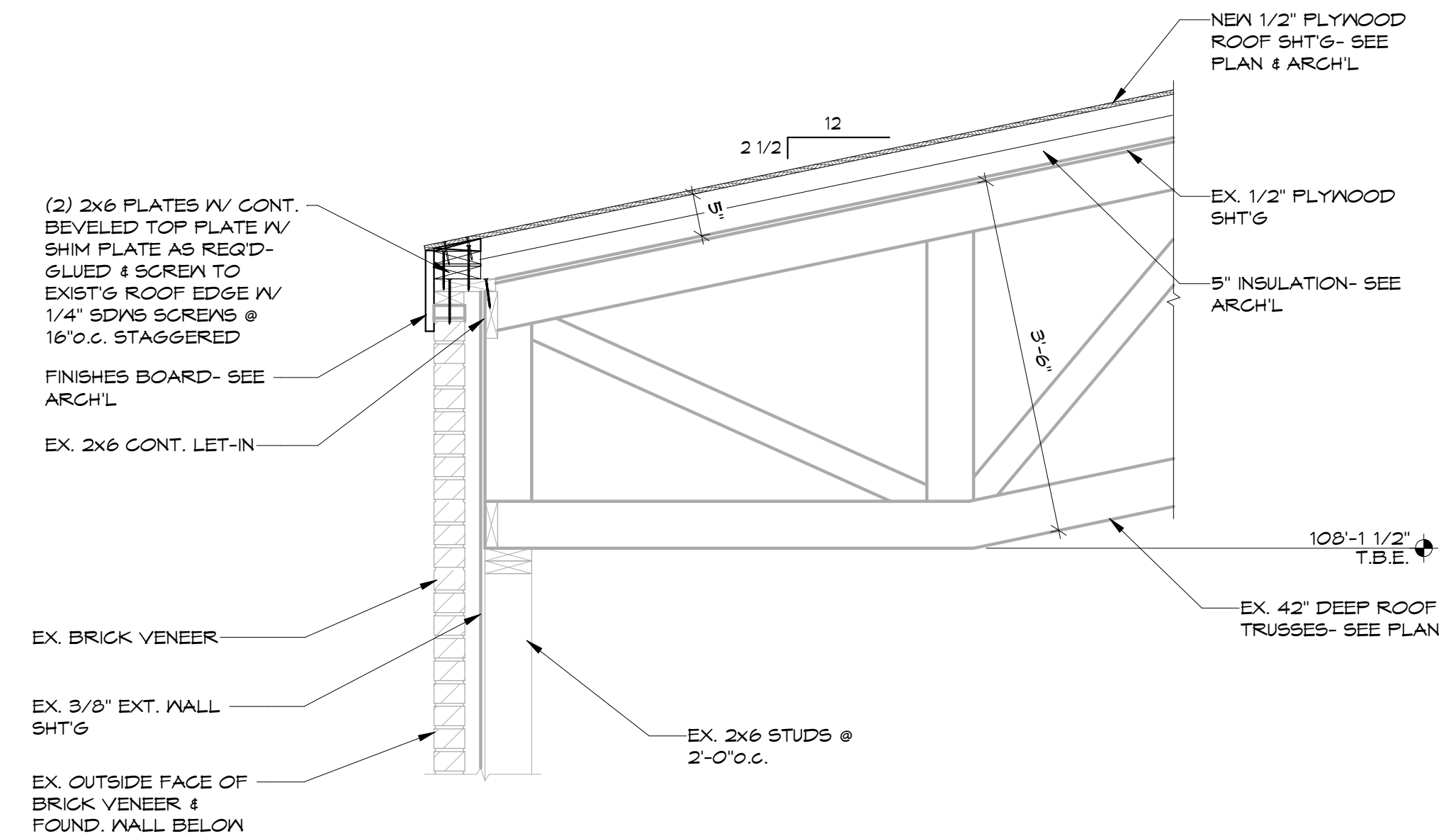
**S302**



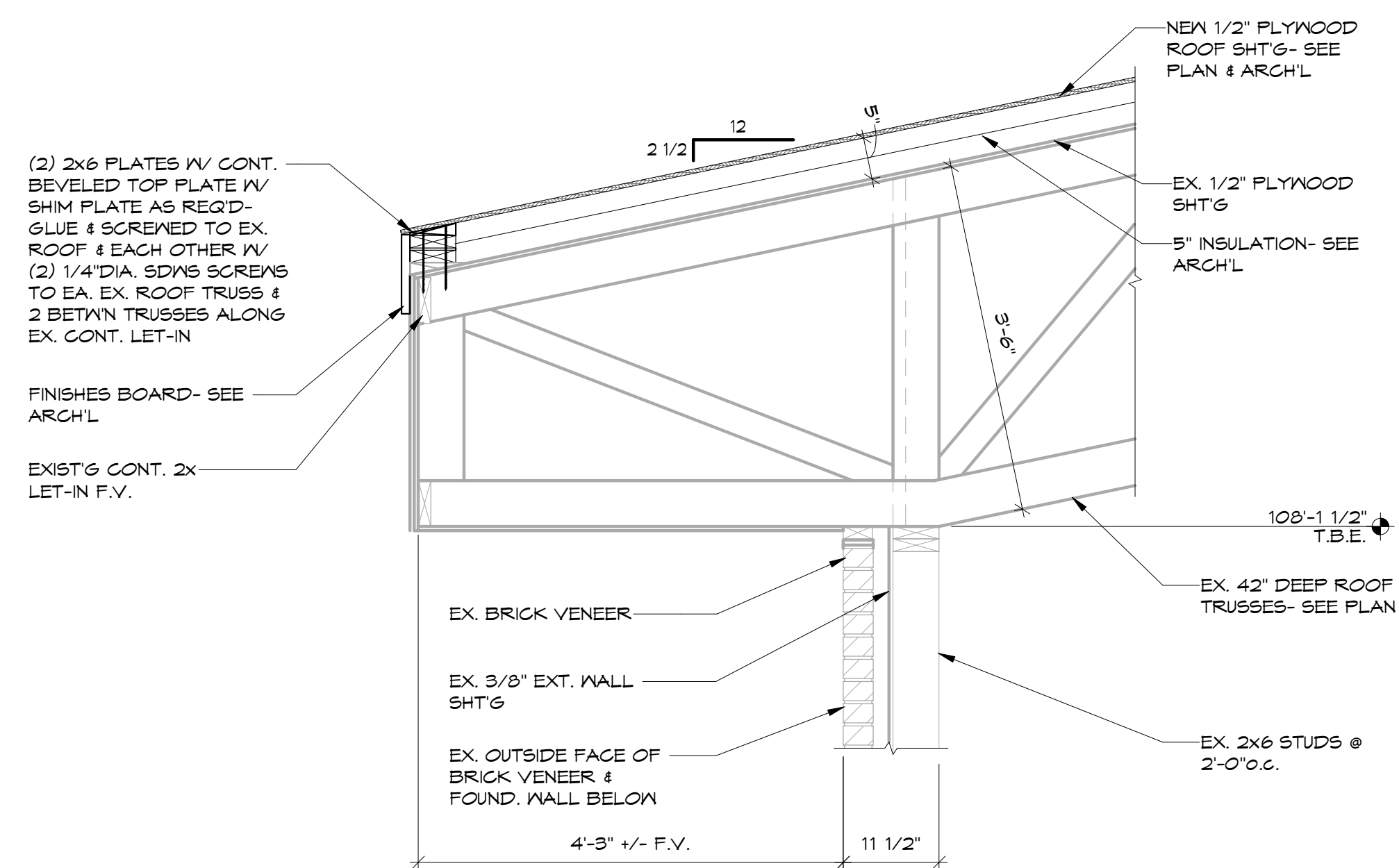
**1 EXIST'G ROOF EDGE @ OVERBUILD ROOF @ ENTRY**  
SCALE: 3/4" = 1'-0"



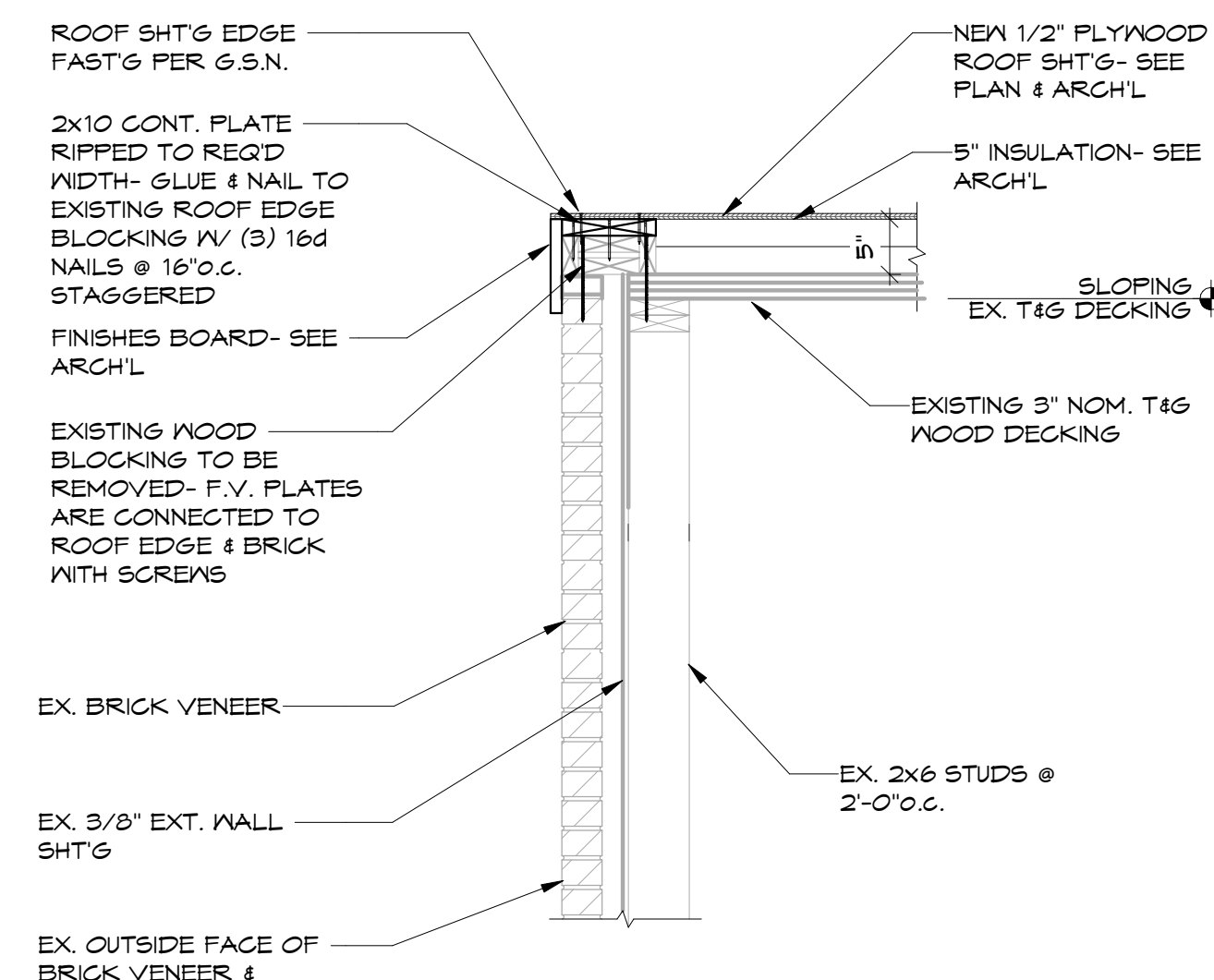
**2 EXIST'G ROOF EDGE @ G.L. TRUSS BEARING**  
SCALE: 3/4" = 1'-0"



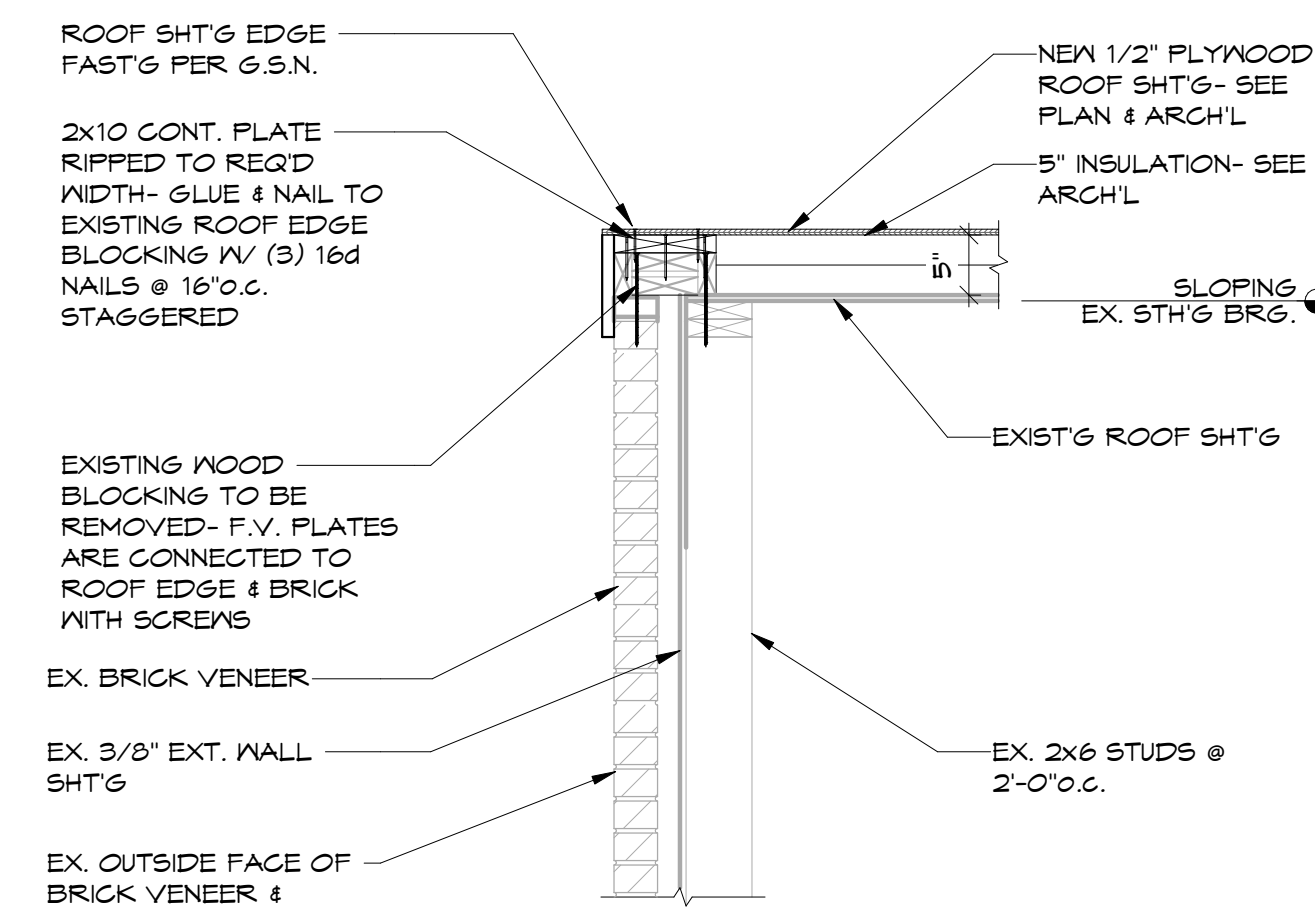
**3 EXIST'G ROOF EDGE @ TRUSS BEARING**  
SCALE: 3/4" = 1'-0"



**4 EXIST'G ROOF EDGE @ TRUSS CANT. BEARING**  
SCALE: 3/4" = 1'-0"



**5 EXIST'G ROOF EDGE @ T&G DECK BRG.**  
SCALE: 3/4" = 1'-0"



**6 EXIST'G ROOF EDGE @ ROOF SHT'G BEARING**  
SCALE: 3/4" = 1'-0"