

# Nappan Research Farm Building #15 Roof Replacement

NAPPAN  
NOVA SCOTIA

ISSUED FOR TENDER / JUNE 14, 2011



1199 Main Street, Suite 200 Moncton,  
New Brunswick  
E1C 1H9  
Tel: (506) 383-8500  
Fax: (506) 383-6833  
Email: a2000inc@nbnet.nb.ca



Valron Engineers Inc.  
100 Cameron Street  
Moncton, NB  
E1C 5Y6  
Tel: (506) 856-9601  
Fax: (506) 854-6820

## DRAWING LIST

### ARCHITECTURAL

- A-0 COVER SHEET
- D-1 DEMOLITION – ROOF PLAN, ELEVATION, SECTION & DETAILS
- A-1 NEW CONSTRUCTION – ROOF PLAN, ELEVATIONS, SECTION & DETAILS

### STRUCTURAL

- S-1 STRUCTURAL REPAIR WALL / CEILING MODIFICATIONS PLAN, SECTIONS, DETAILS AND NOTES
- S-2 STRUCTURAL REPAIR TRUSS REINFORCING SECTIONS AND DETAILS

Key plan	Plan clé

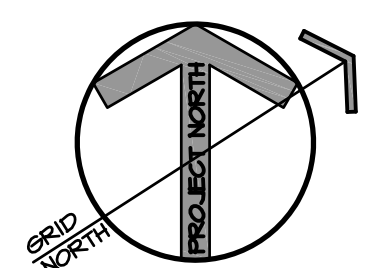
No.	Date	Revisions
0	JUNE 14, 2011	ISSUED FOR TENDER

 1199 Main Street, Suite 200 Moncton, New Brunswick E1C 1H9 Tel: (506) 383-8500 Fax: (506) 383-6833 Email: a2000inc@nbnet.nb.ca Web: www.architecture2000.ca	 Valron Engineers Inc. 100 Cameron Street Moncton, NB E1C 5Y6 Tel: (506) 856-9601 Fax: (506) 854-6820
---	---

Project <b>NAPPAN RESEARCH FARM BUILDING #15 ROOF REPLACEMENT</b> Nappan, N.S.
Drawing <b>COVER SHEET</b>

Designed by <b>AC</b>	Conçu par <b>AC</b>	Professional Stamp 
Drawn by <b>JS</b>	Dessiné par <b>JS</b>	92001 <b>CERTIFICATE OF PRACTICE</b>  June 14, 2011 Raven Spenser ARCHITECTURE 2000 INC. ASSOCIATION OF NEW BRUNSWICK
Approved by <b>IM</b>	Approuvé par <b>IM</b>	
Scale <b>AS NOTED</b>	Echelle <b>AS NOTED</b>	Date <b>JUNE 2011</b>
Project no. <b>3111</b>	Drawing no. <b>A-0</b>	No. du projet <b>3111</b>





**TYPICAL EXISTING ROOF CONSTRUCTION:**

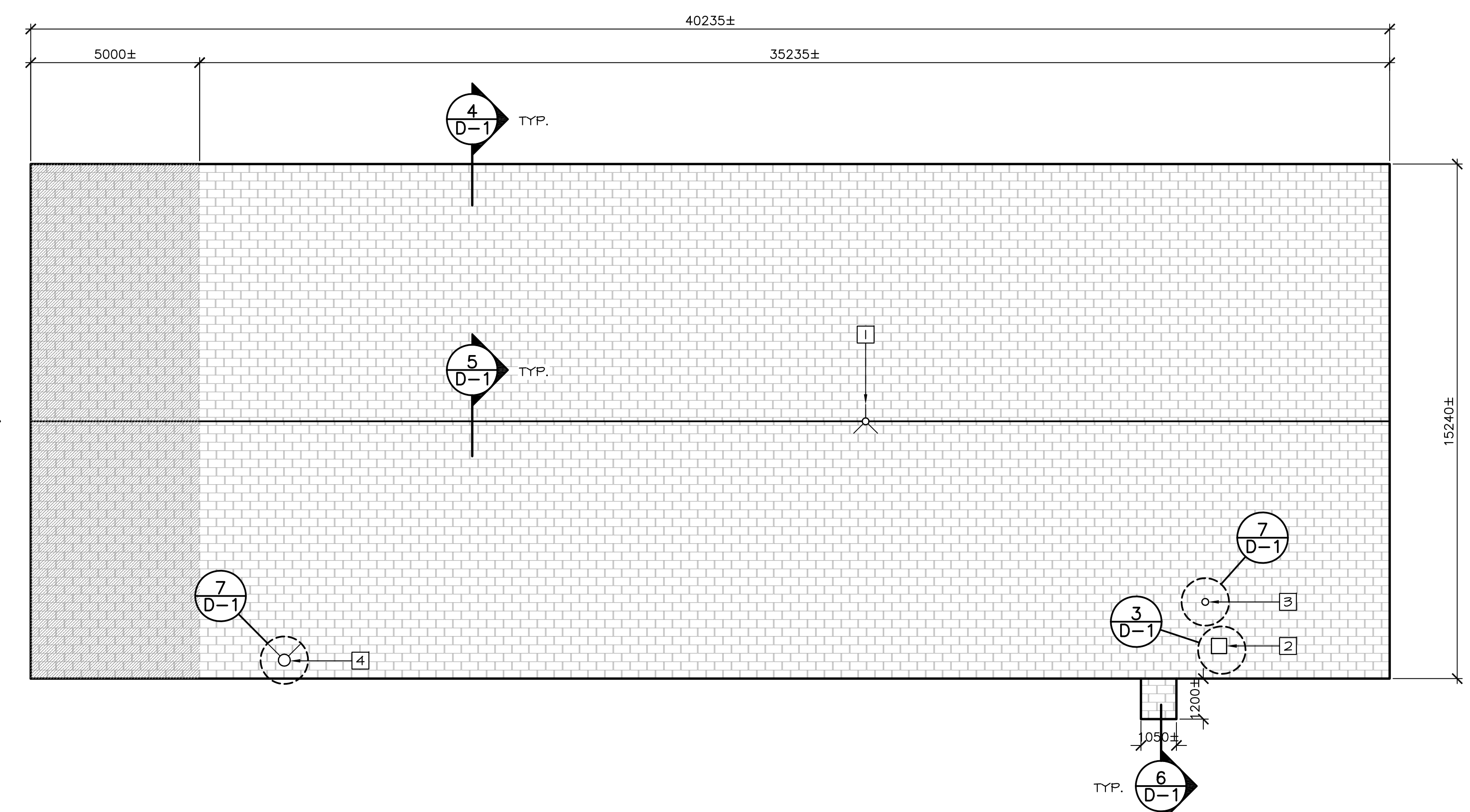
- EXISTING SHEATHING (ASPHALT SHINGLES & WATERPROOFING MEMBRANE)
- EXTERIOR ROOF BOARDS
- STRUCTURAL FRAMING MEMBERS

**DEMOLITION NOTES:**

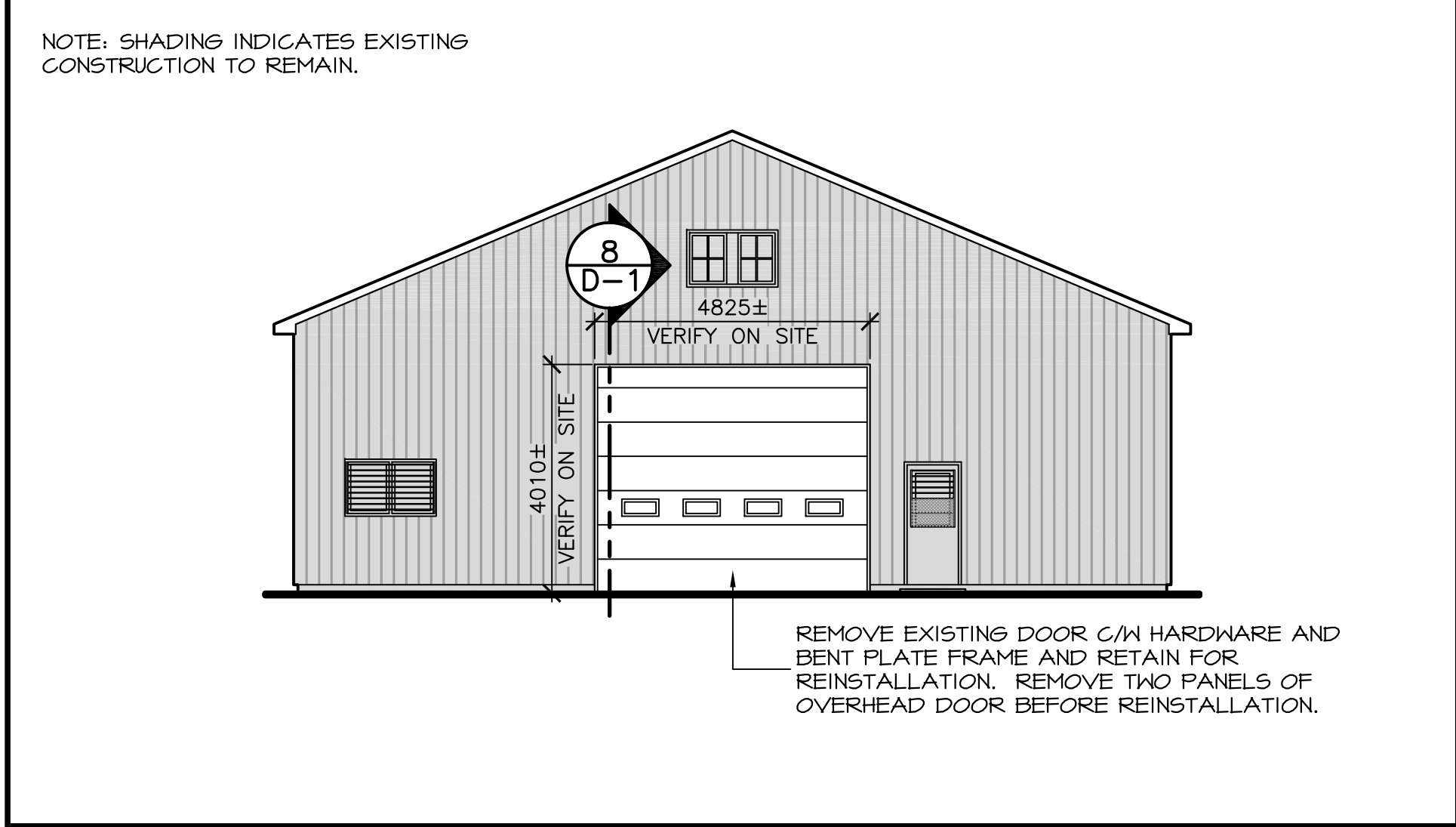
1. REMOVE EXISTING ANTENNA AND RETAIN FOR REINSTALLATION.
2. EXISTING CHIMNEY TO REMAIN.
3. EXISTING EXHAUST VENT TO REMAIN.
4. EXISTING FLUE C/W GUY WIRES TO REMAIN.

**LEGEND**

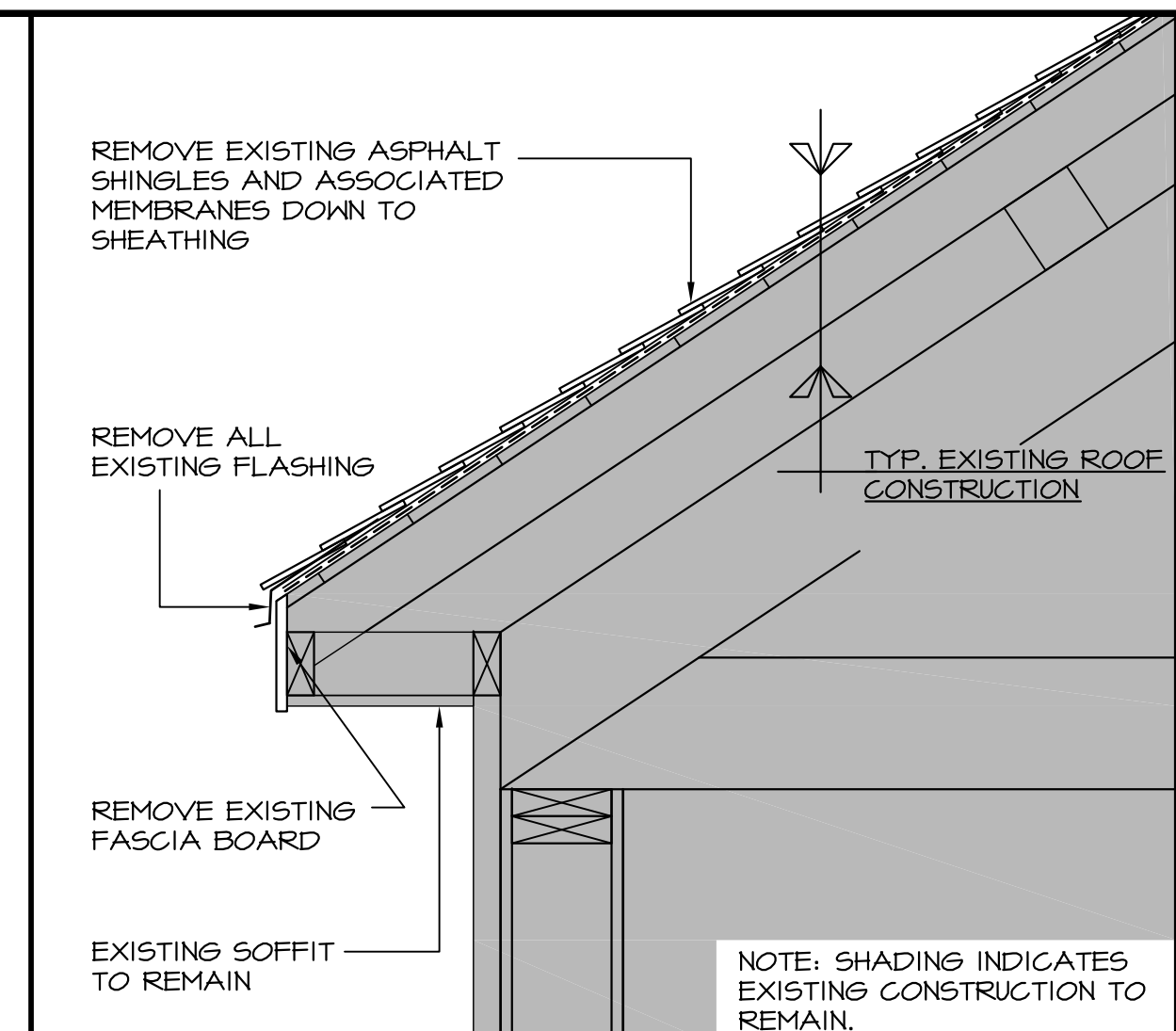
- REMOVE EXISTING SHEATHING THIS AREA ONLY TO ACCOMMODATE STRUCTURAL WORK; REPLACE / REINSTALL AFTER STRUCTURAL WORK HAS BEEN COMPLETED.
- EXISTING SHINGLES AND MEMBRANE TO BE REMOVED DOWN TO EXISTING SHEATHING



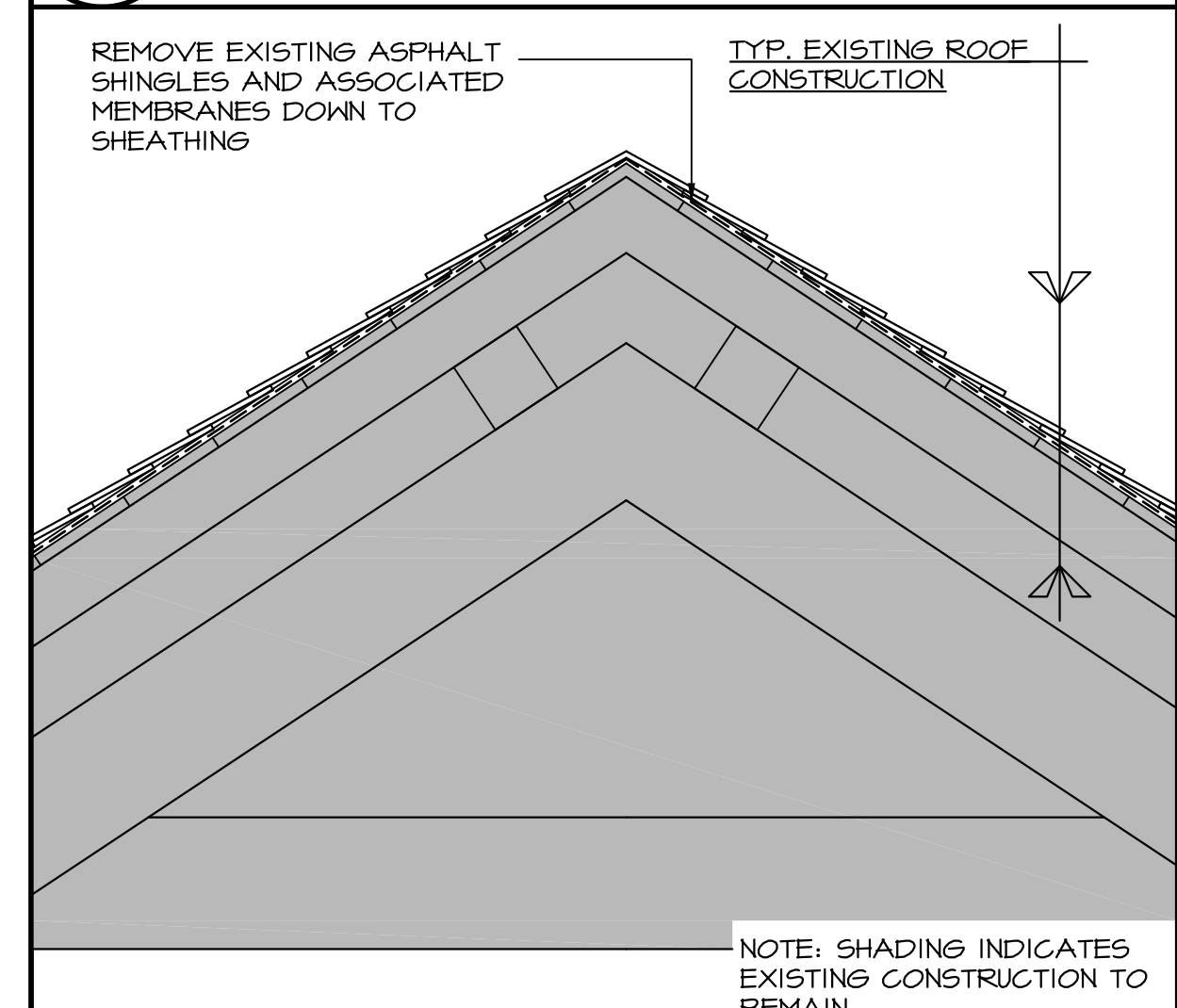
**1 D-1** EXISTING / DEMOLITION ROOF PLAN SCALE 1:100



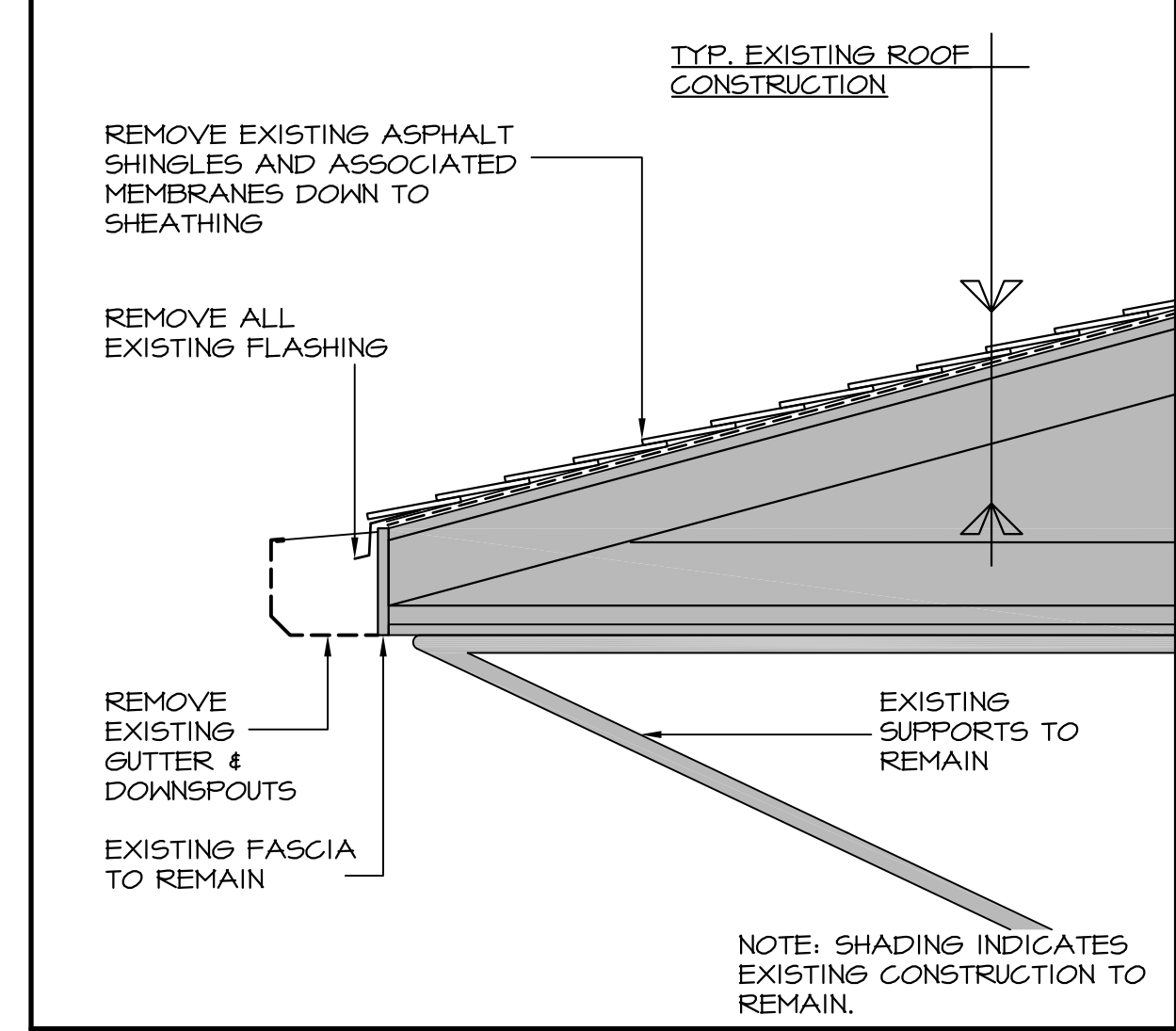
**2 D-1** EXISTING / DEMOLITION WEST ELEVATION SCALE 1:100



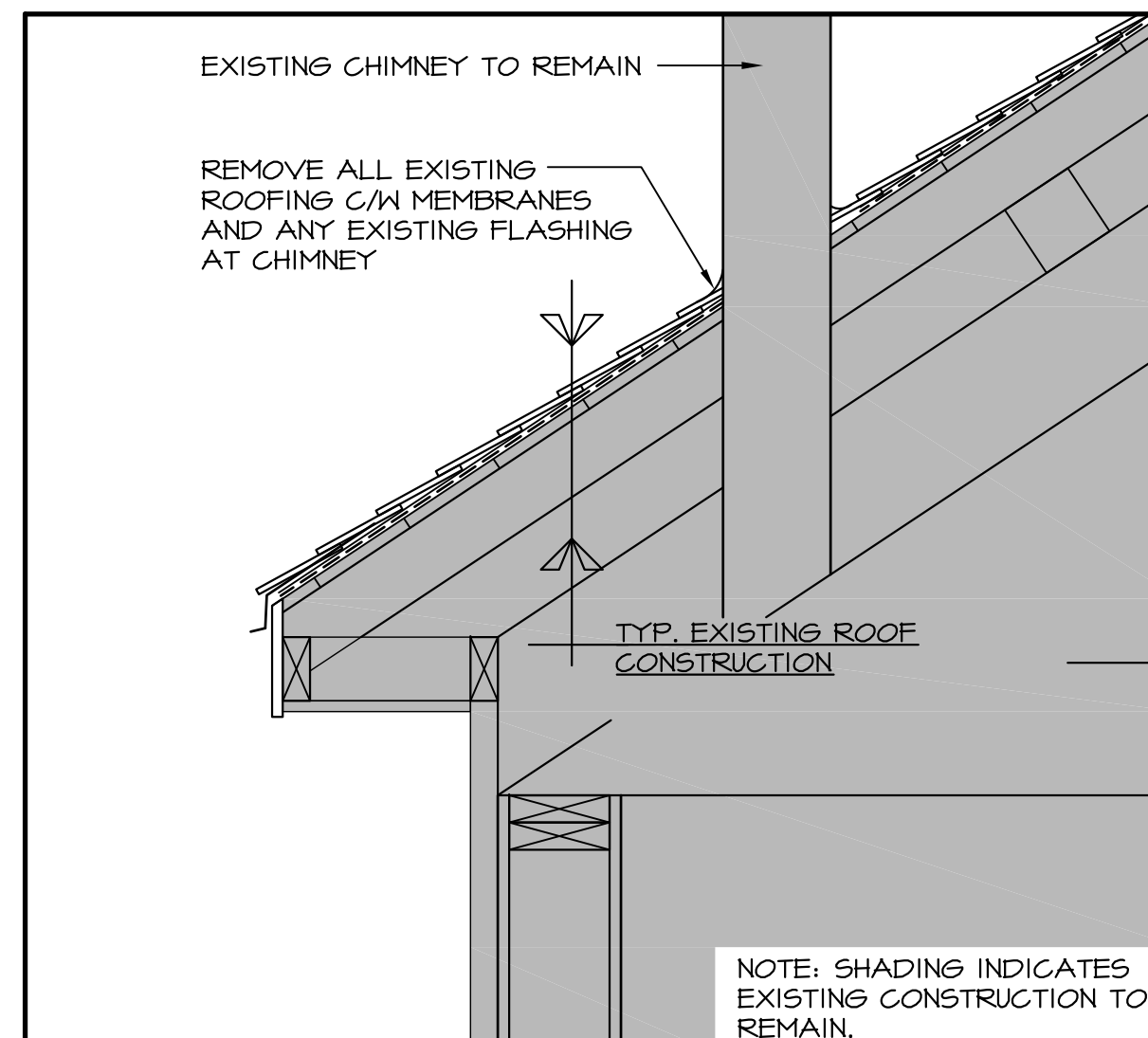
**4 D-1** TYPICAL EXISTING ROOF EDGE DETAIL SCALE 1:10



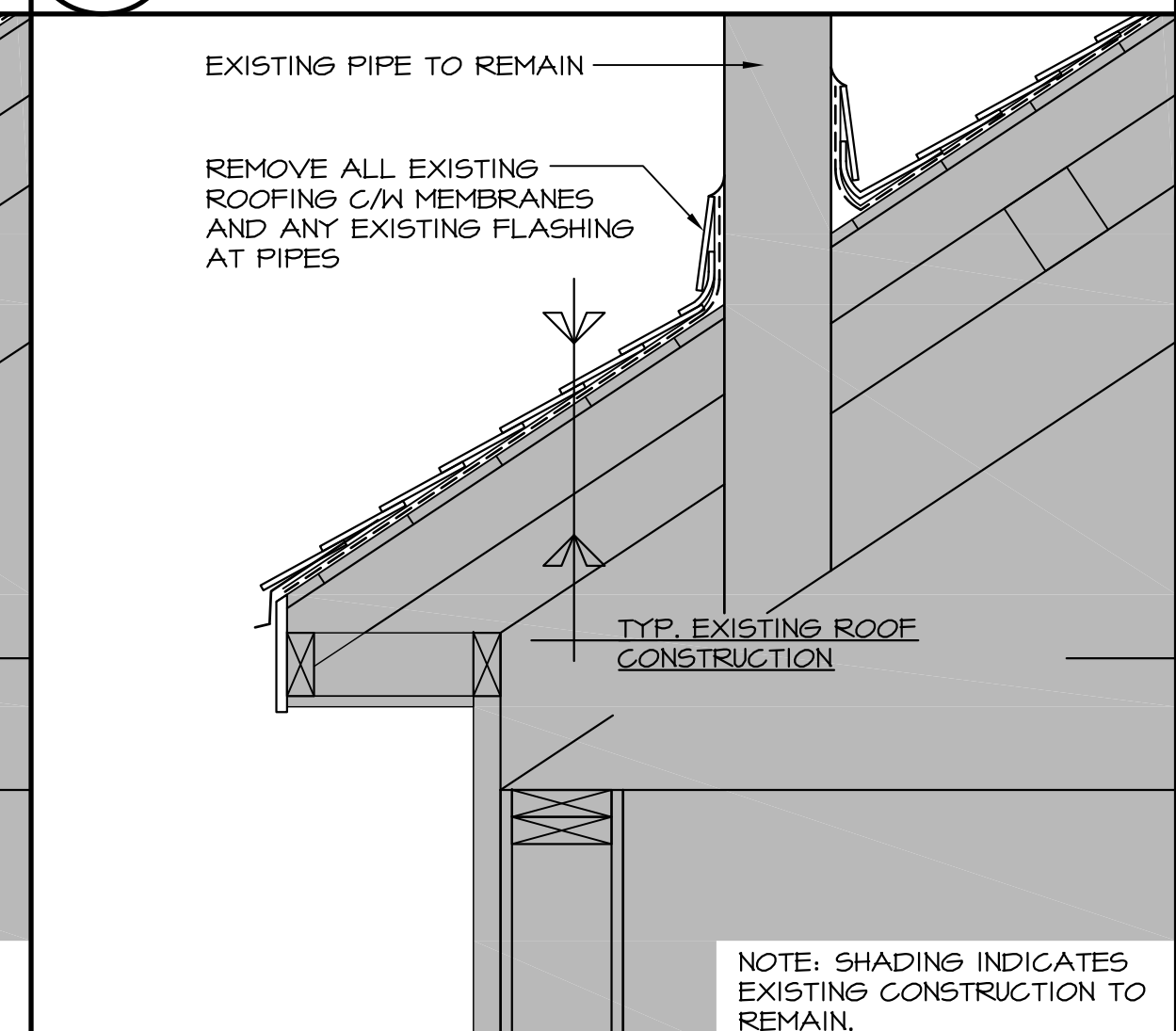
**5 D-1** TYPICAL EXISTING ROOF RIDGE DETAIL SCALE 1:10



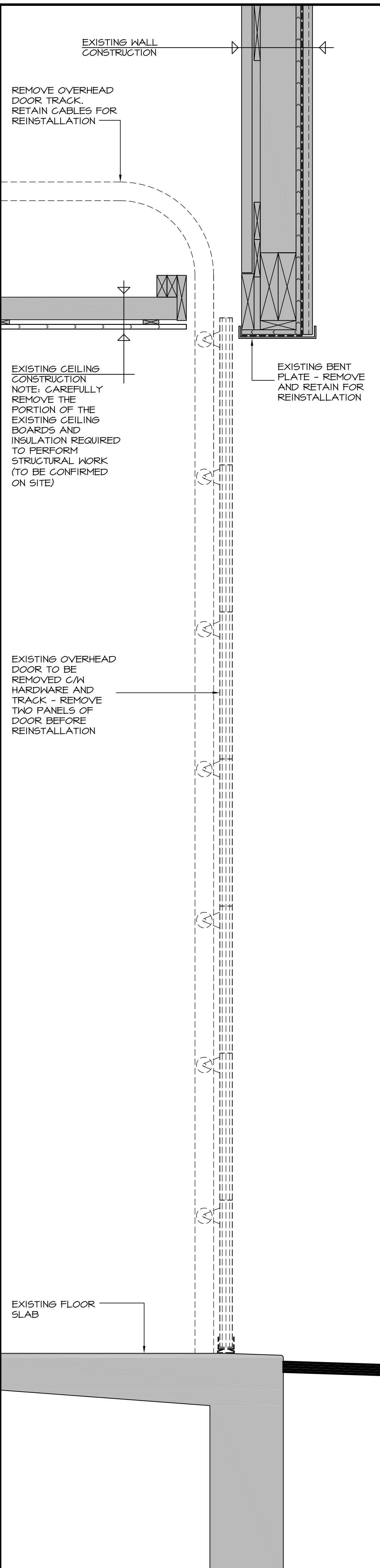
**6 D-1** EXISTING ROOF EDGE DETAIL AT ENTRANCE SCALE 1:10



**3 D-1** EXISTING CHIMNEY FLASHING DETAIL SCALE 1:10



**7 D-1** EXISTING PIPE FLASHING DETAIL SCALE 1:10



**8 D-1** EXISTING OVERHEAD DOOR SECTION SCALE 1:10

**GENERAL NOTES:**

1. CONTRACTOR TO FAMILIARIZE HIMSELF WITH EXISTING SITE CONDITIONS BEFORE COMMENCING WORK.
2. VERIFY ALL EXISTING CONSTRUCTION ON SITE THAT ARE TO REMAIN. REPLACE ANY DAMAGED / ROTTED SHEATHING.
3. IN AREA SHOWN, REMOVE ALL EXISTING ROOFING DOWN TO SHEATHING BEFORE COMMENCING WORK.
4. CONTRACTOR TO REPLACE ANY EXISTING MATERIALS DAMAGED DURING ROOF REPLACEMENT.
5. ALL DIMENSIONS ARE APPROXIMATE AND ARE TO BE VERIFIED ON SITE.
6. LOCATION OF ROOF PENETRATIONS ARE APPROXIMATE AND ARE TO BE VERIFIED ON SITE.
7. REMOVE DAMAGED OR ROTTED SHEATHING / TRIM AS REQUIRED PRIOR TO ROOF INSTALLATION.

Key plan Plan 04

No.	Date	Revisions
0	JUNE 14, 2011	ISSUED FOR TENDER

Architects  
**architecture 2000 inc.**  
 1199 Main Street, Suite 200  
 Moncton, New Brunswick  
 E1C 1H9  
 Tel: (506) 383-8500  
 Fax: (506) 383-6833  
 Email: a2000inc@nbnet.nb.ca  
 Web: www.architecture2000.ca

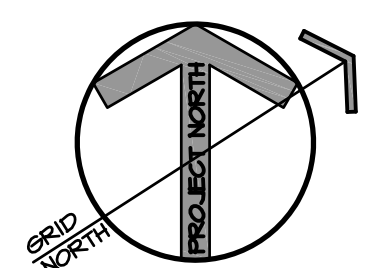
Consultants  
**STRUCTURAL**  
 Valton Engineers Inc.  
 Tel: (506) 856-9601  
 Fax: (506) 854-6820

Project  
**NAPPAN RESEARCH FARM BUILDING #15 ROOF REPLACEMENT**  
 Nappan, N.S.

Drawing  
**DEMOLITION - ROOF PLAN, ELEVATION, SECTION & DETAILS**

Designed by <b>AC</b>	Conçu par	Professional Stamp	92001
Drawn by <b>JS</b>	Dessiné par		<b>CERTIFICATE OF PRACTICE</b>  <b>IM</b> June 14, 2011 Raven Spenser ARCHITECTURE 2000 INC. PROFESSIONAL ASSOCIATION OF NEW BRUNSWICK
Approved by <b>IM</b>	Approuvé par		
Scale <b>AS NOTED</b>	Echelle	Date <b>JUNE 2011</b>	Date
Project no. <b>3111</b>	No. du projet	Drawing no. <b>D-1</b>	No. du dessin





**TYPICAL ROOF CONSTRUCTION:**

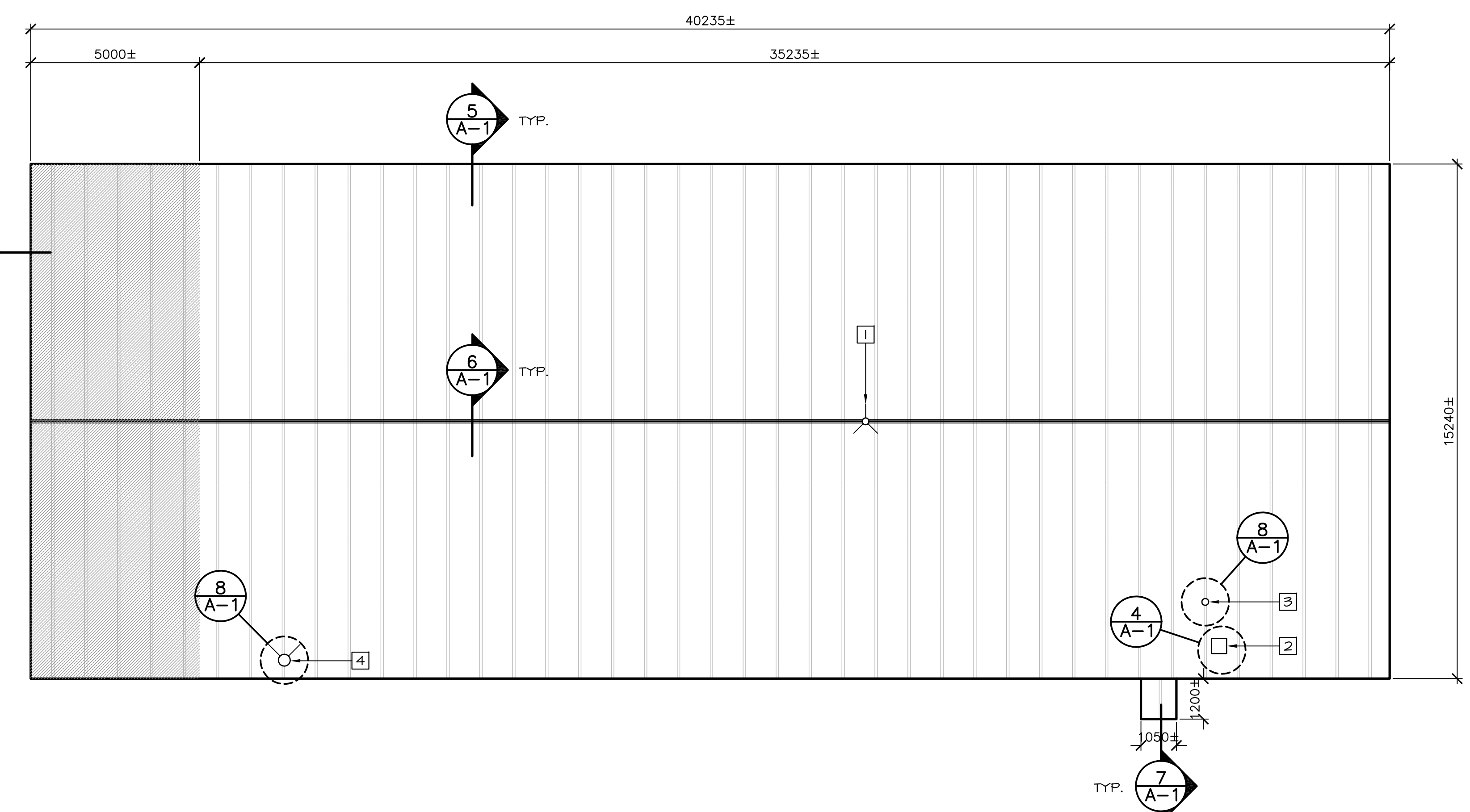
- SLOPED METAL ROOFING PANELS
- HIGH TEMPERATURE 'PEEL & STICK' WATERPROOFING MEMBRANE
- EXISTING ROOF BOARDS
- EXISTING FRAMING MEMBERS

**CONSTRUCTION NOTES:**

1. REINSTALLED ANTENNA.
2. EXISTING CHIMNEY.
3. EXISTING EXHAUST VENT.
4. EXISTING FLUE C/W GUY WIRES.

**LEGEND**

- AREA TO RECEIVE PLYWOOD SHEATHING (THICKNESS TO MATCH EXISTING) & METAL ROOFING
- AREA TO RECEIVE METAL ROOFING

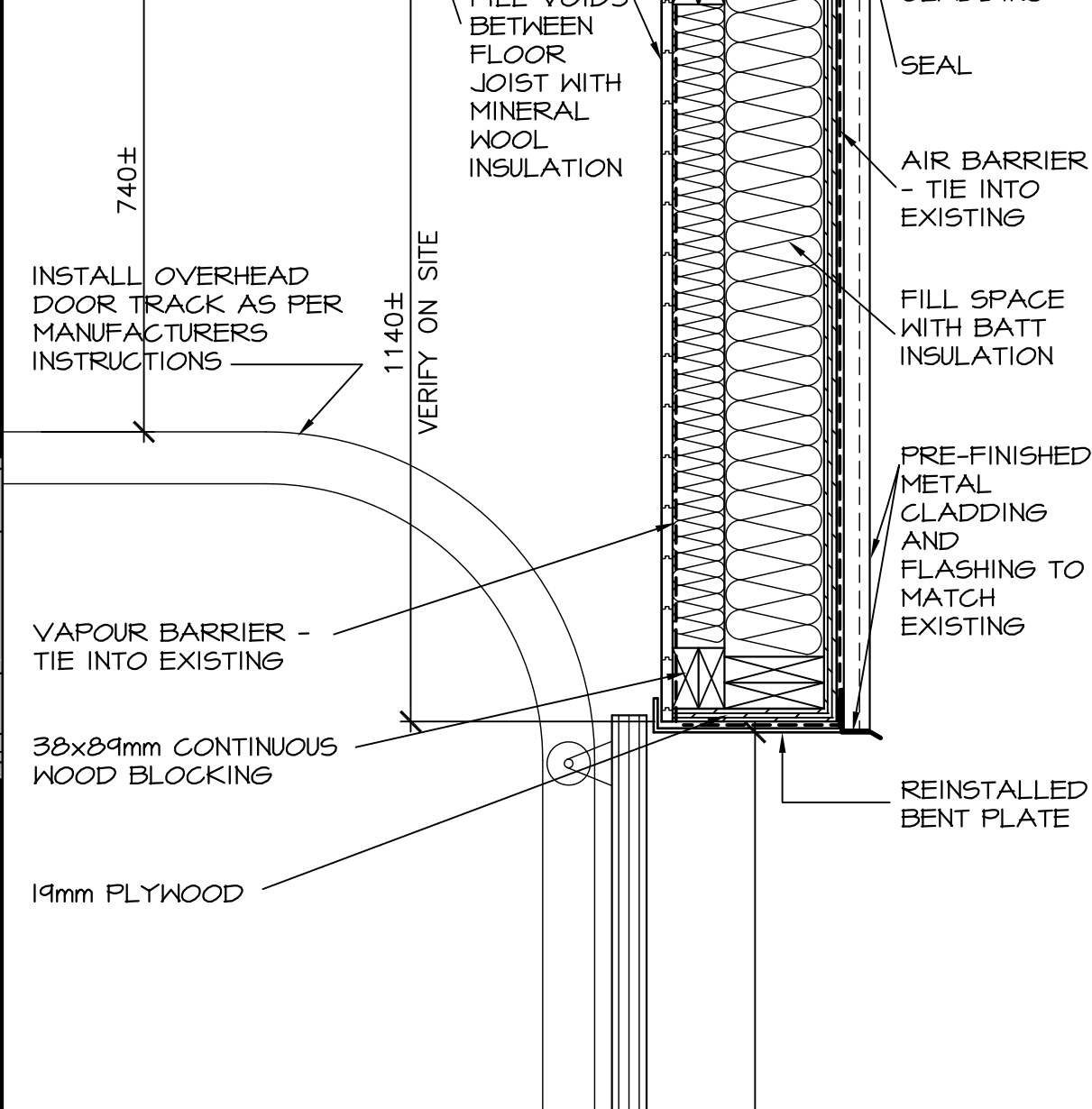
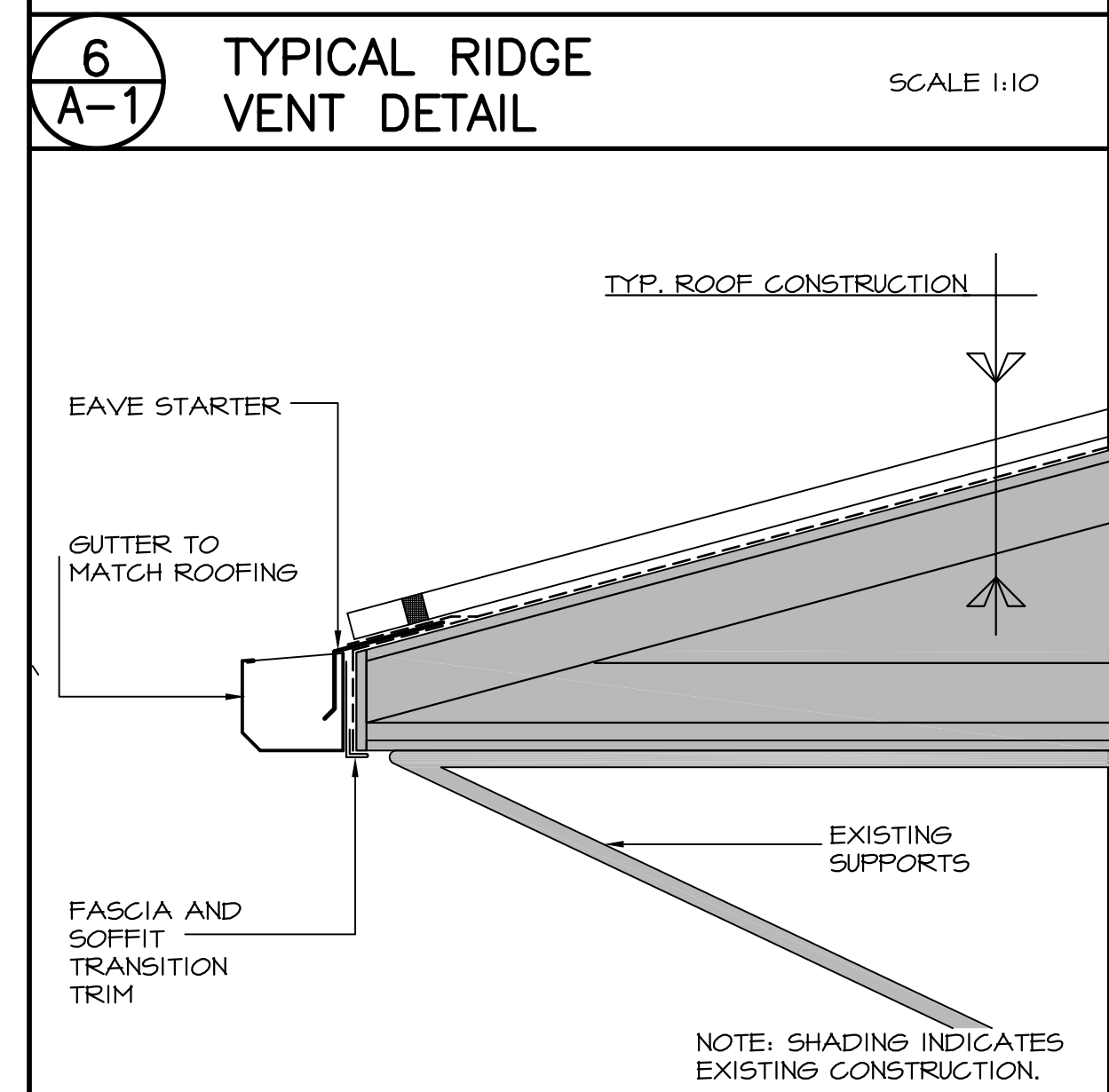


**1**  
A-1 ROOF PLAN

SCALE 1:100

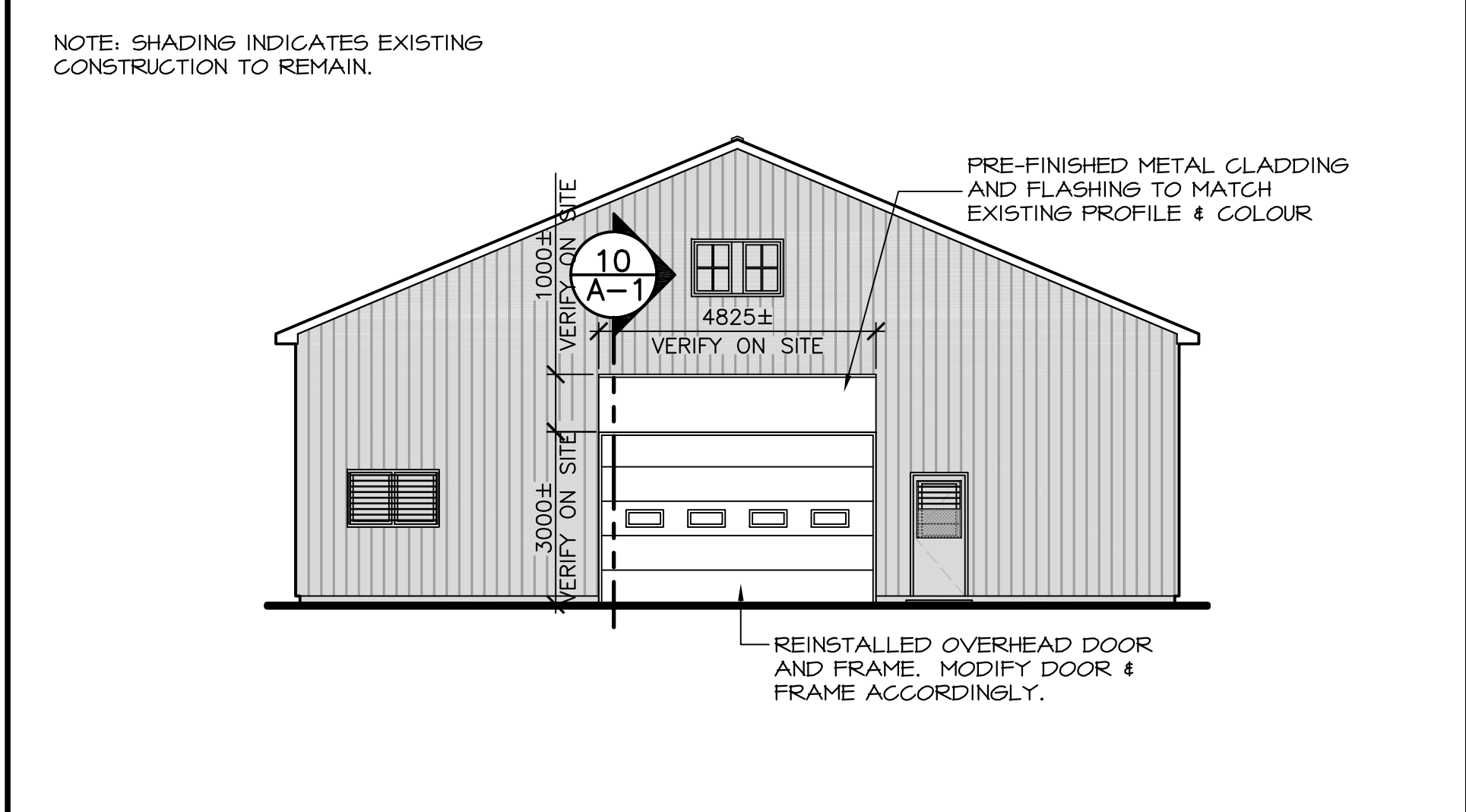
**6**  
A-1 TYPICAL RIDGE VENT DETAIL

SCALE 1:10



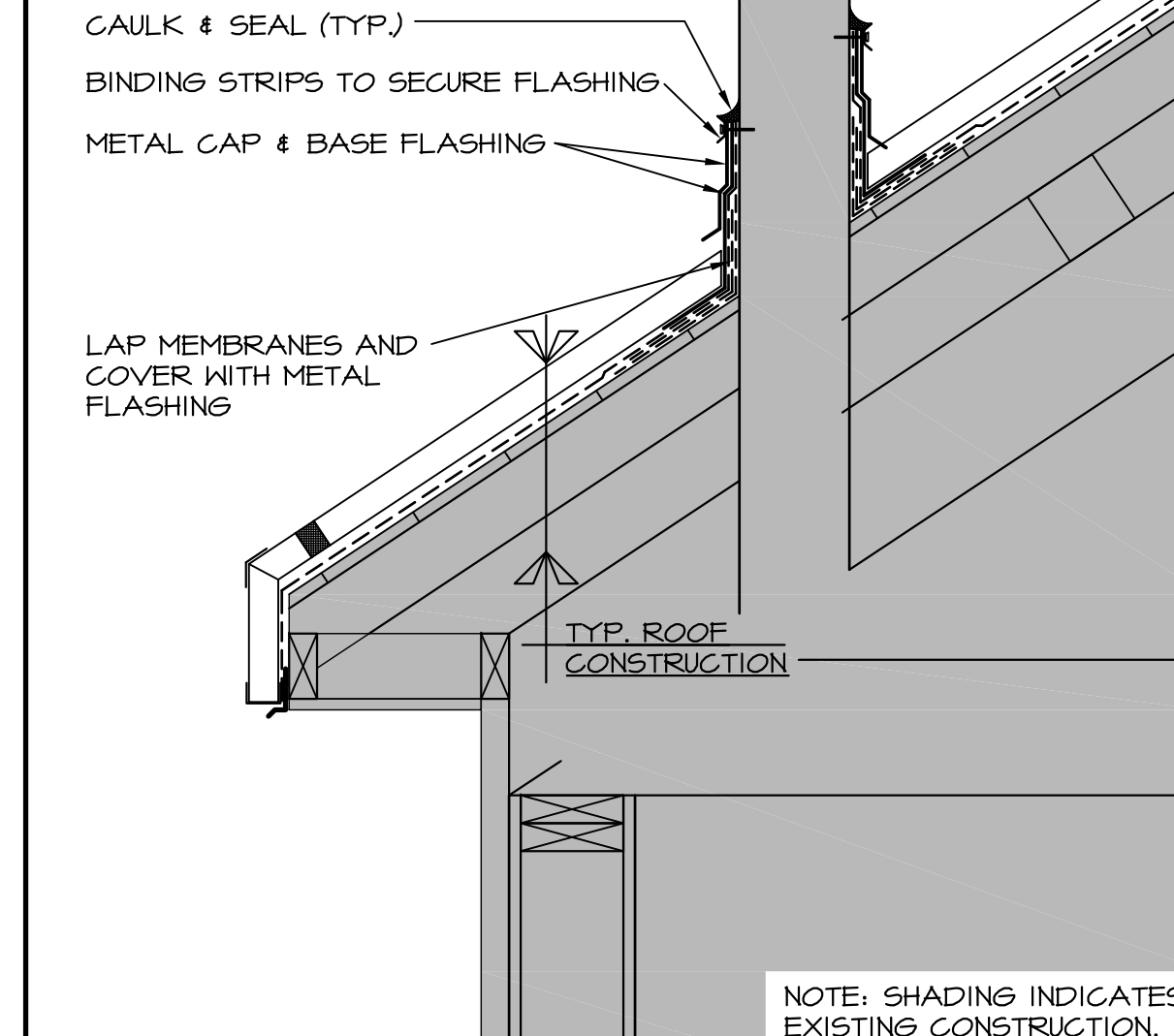
**7**  
A-1 ROOF EDGE DETAIL AT ENTRANCE

SCALE 1:10



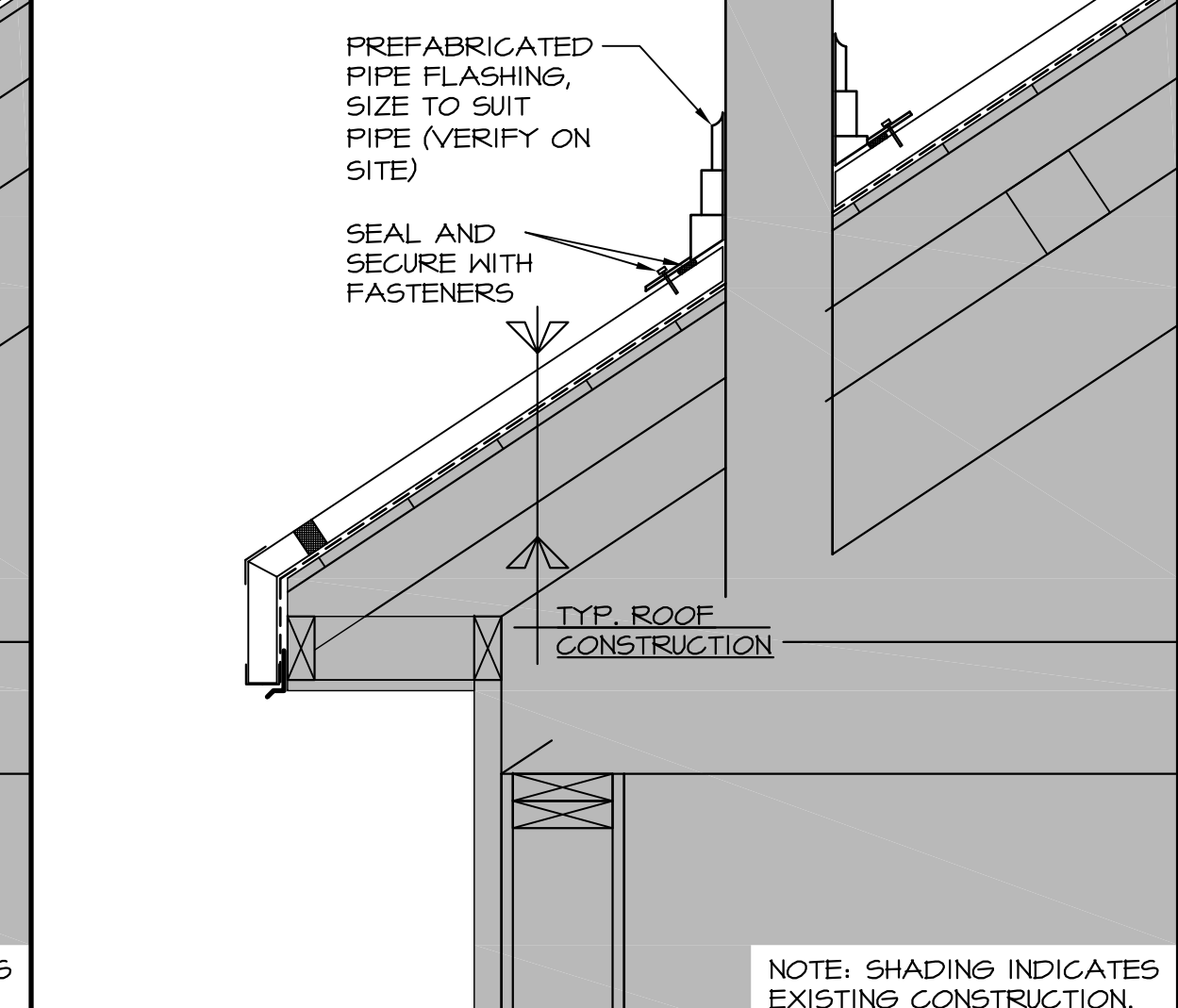
**2**  
A-1 WEST ELEVATION

SCALE 1:100



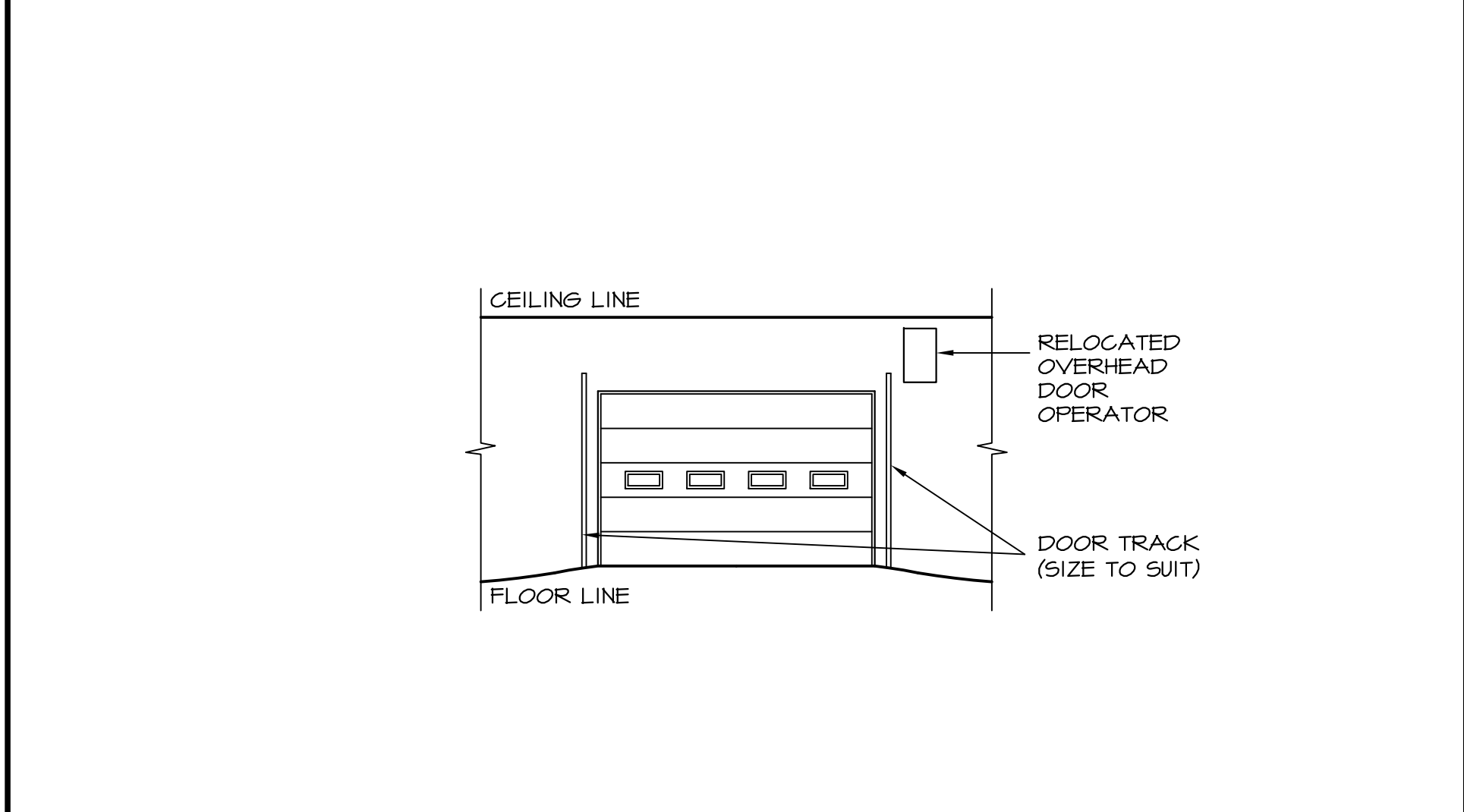
**4**  
A-1 CHIMNEY FLASHING DETAIL

SCALE 1:10



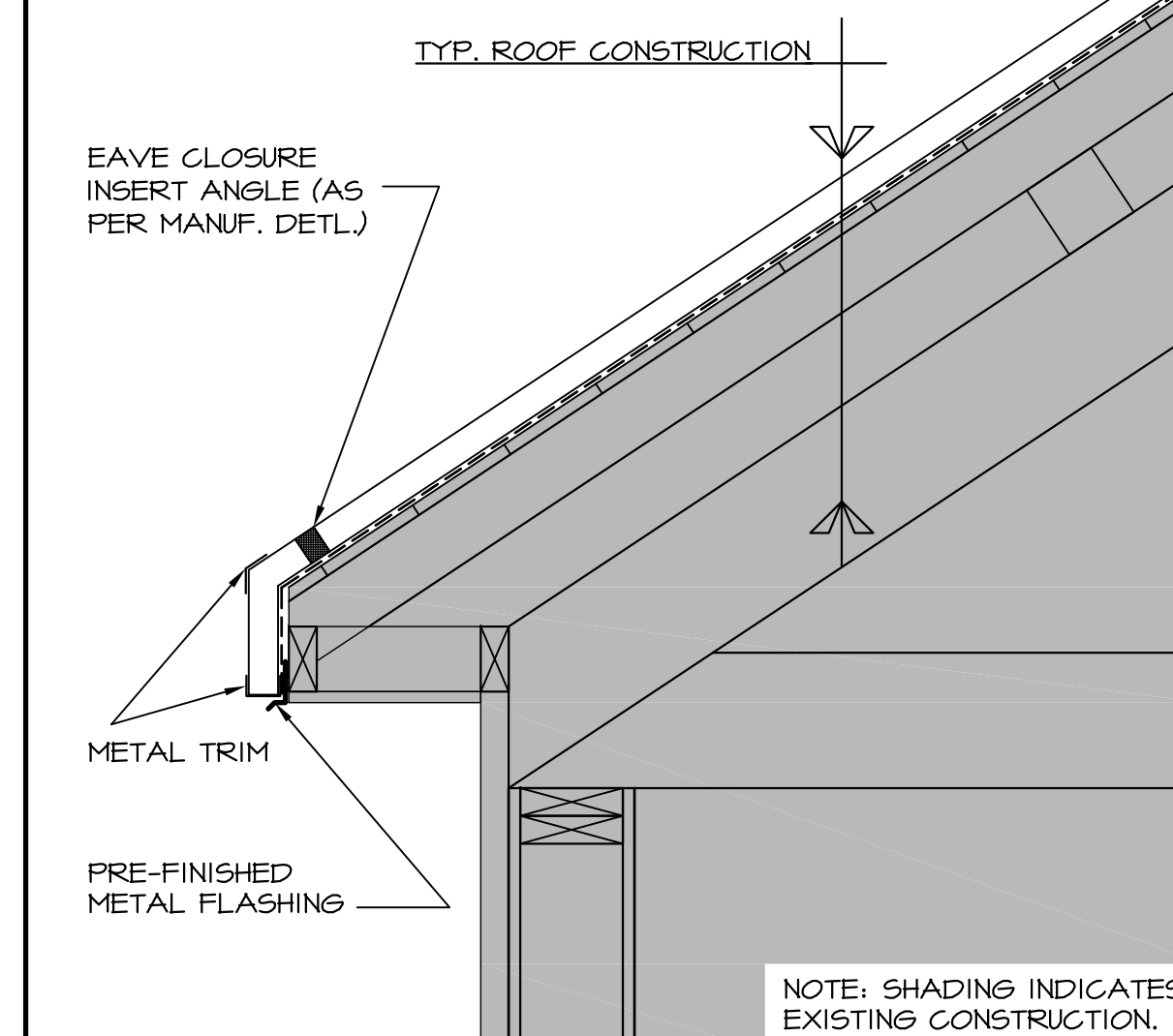
**8**  
A-1 PIPE FLASHING DETAIL

SCALE 1:10



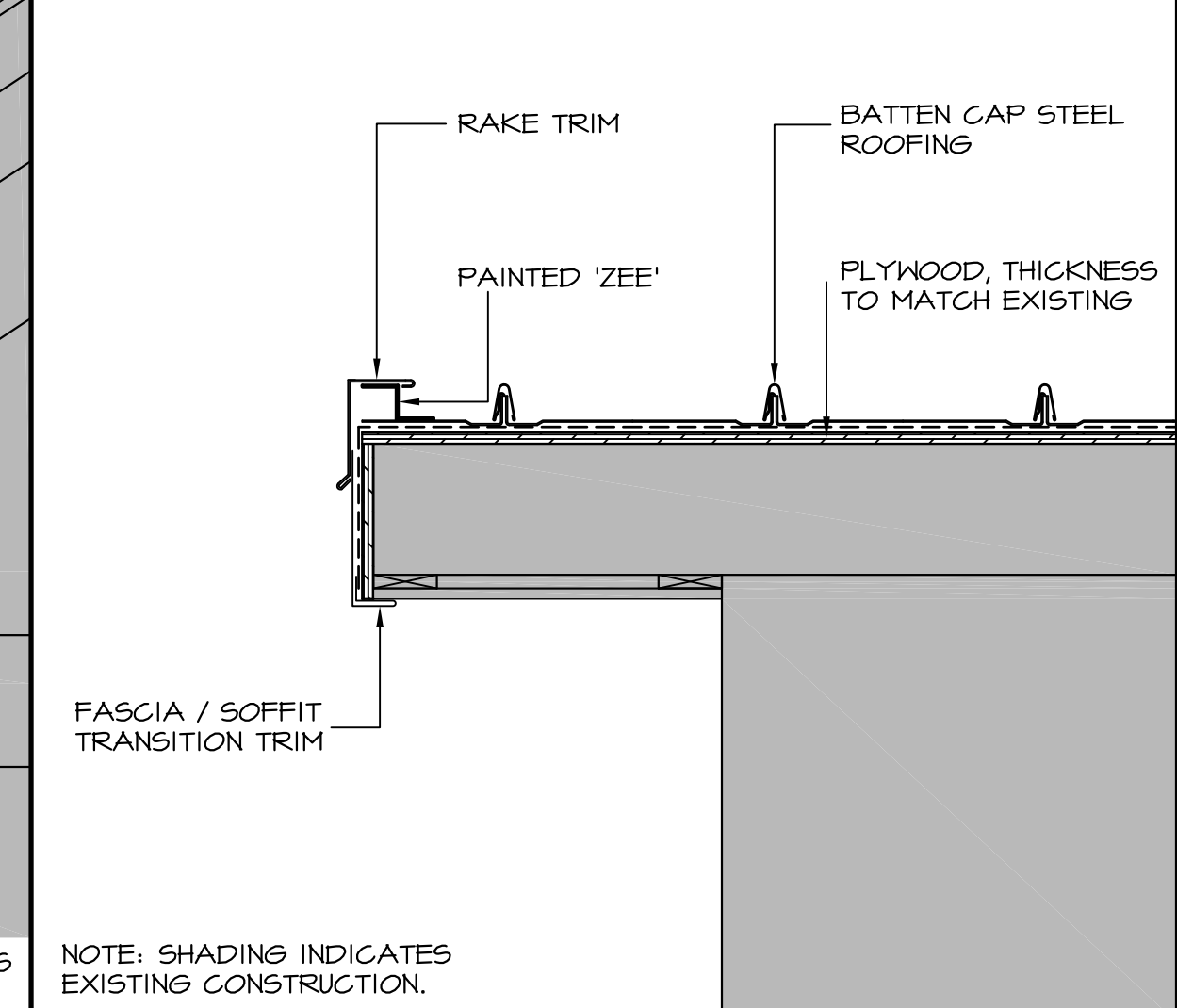
**3**  
A-1 INTERIOR ELEVATION

SCALE 1:100



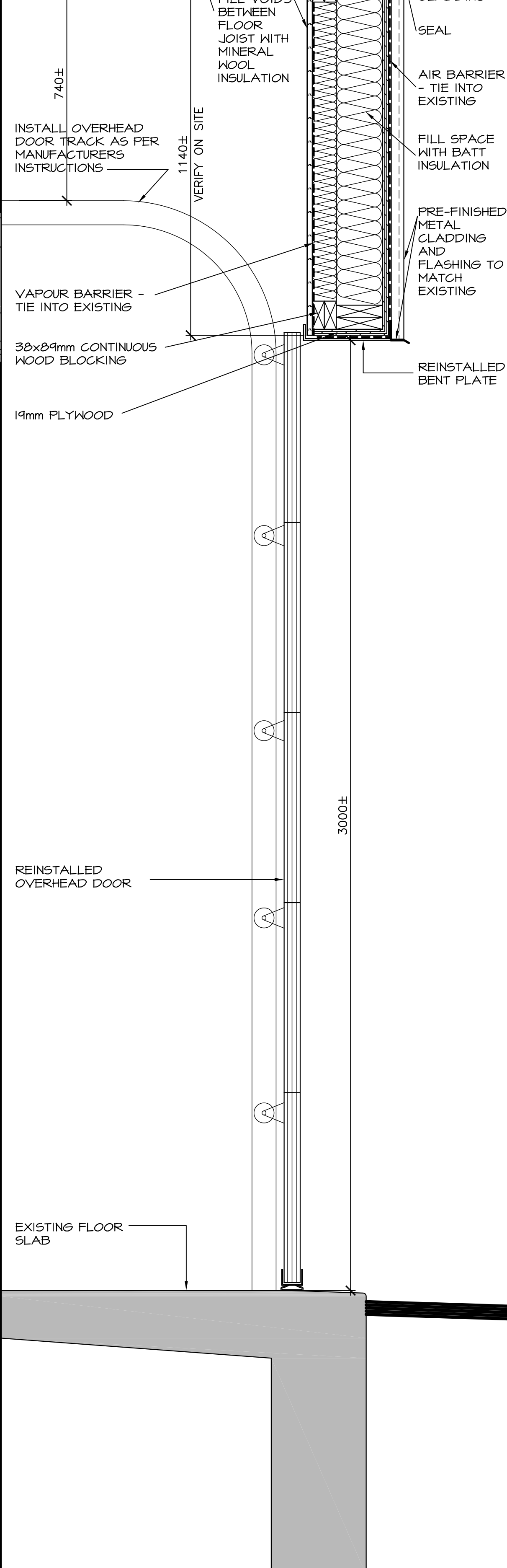
**5**  
A-1 TYPICAL ROOF EDGE DETAIL

SCALE 1:10



**9**  
A-1 RAKE DETAIL

SCALE 1:10



**10**  
A-1 OVERHEAD DOOR SECTION

**GENERAL NOTES:**

1. CONTRACTOR TO FAMILIARIZE HIMSELF WITH EXISTING SITE CONDITIONS BEFORE COMMENCING WORK.
2. VERIFY ALL EXISTING CONSTRUCTION ON SITE THAT ARE TO REMAIN. REPLACE ANY DAMAGED / ROTTED SHEATHING.
3. IN AREA SHOWN, REMOVE ALL EXISTING ROOFING DOWN TO SHEATHING BEFORE COMMENCING WORK.
4. CONTRACTOR TO REPLACE ANY EXISTING MATERIALS DAMAGED DURING CONSTRUCTION & DEMOLITION.
5. ALL DIMENSIONS ARE APPROXIMATE AND ARE TO BE VERIFIED ON SITE.
6. LOCATION OF ROOF PENETRATIONS ARE APPROXIMATE AND ARE TO BE VERIFIED ON SITE.
7. REPLACE DAMAGED OR ROTTED SHEATHING / TRIM AS REQUIRED PRIOR TO ROOF INSTALLATION.

Key plan Plan 04

No.	Date	Revisions
0	JUNE 14, 2011	ISSUED FOR TENDER

Architects  
**architecture 2000 inc.**  
 1199 Main Street, Suite 200  
 Moncton, New Brunswick  
 E1C 1H9  
 Tel: (506) 383-8500  
 Fax: (506) 383-6833  
 Email: a2000inc@nbnet.nb.ca  
 Web: www.architecture2000.ca

Consultants  
**STRUCTURAL**  
 Valton Engineers Inc.  
 Tel: (506) 856-9601  
 Fax: (506) 854-6820

Project  
**NAPPAN RESEARCH FARM BUILDING #15 ROOF REPLACEMENT**  
 Nappan, N.S.

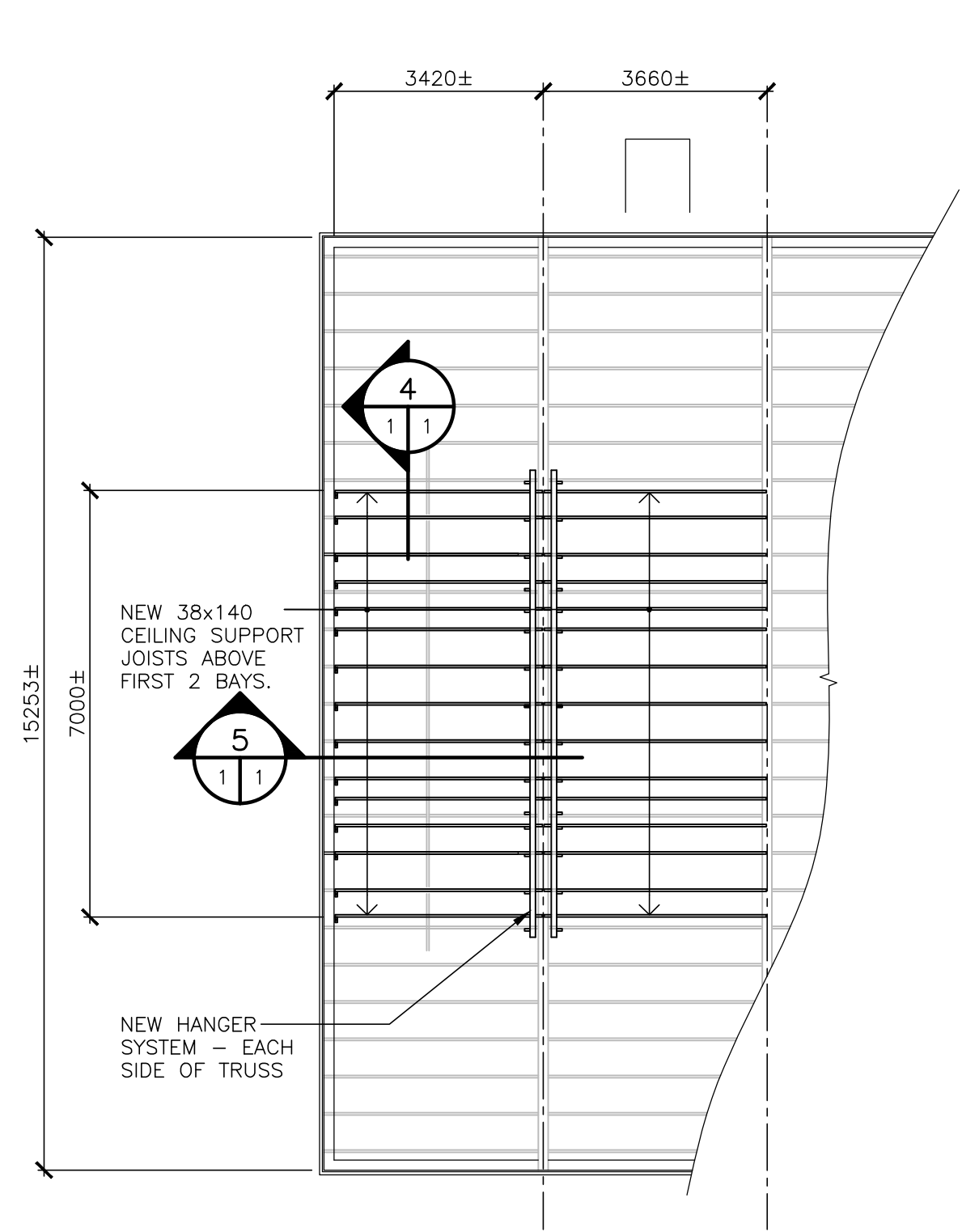
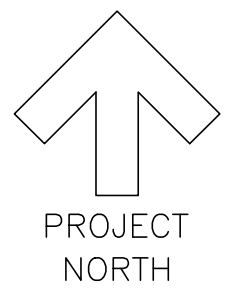
Drawing  
**NEW CONSTRUCTION - ROOF PLAN, ELEVATIONS, SECTION & DETAILS**

Designed by Conçu par  
**AC**  
 Drawn by Dessiné par  
**JS**  
 Approved by Approuvé par  
**IM**  
 Scale Echelle  
**AS NOTED**  
 Date Date  
**JUNE 2011**

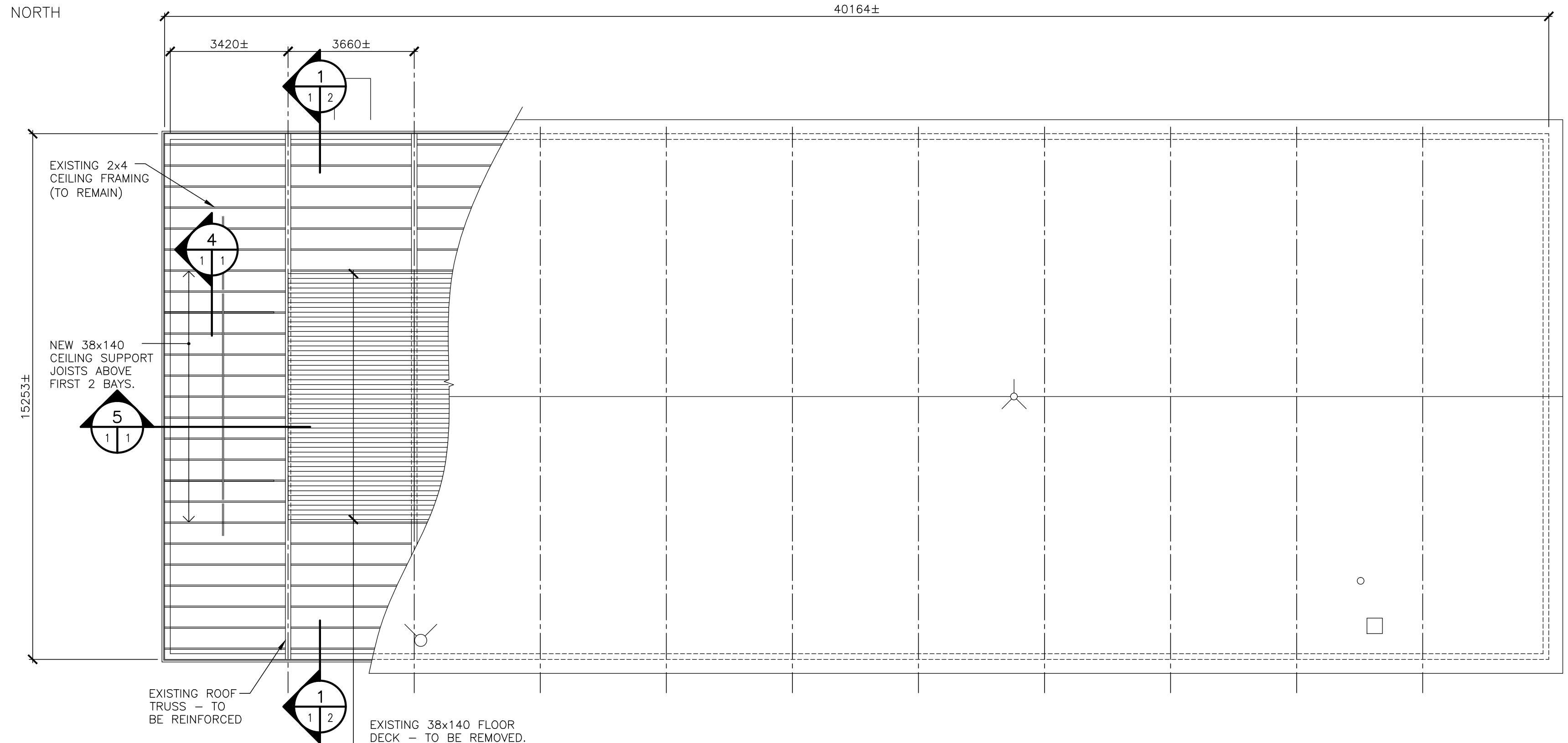


Project no. **3111**  
 Drawing no. **A-1**





**PARTIAL PLAN -  
NEW CEILING SUPPORT FRAMING**  
SCALE: 1:100



**PARTIAL SCHEMATIC FRAMING PLAN**  
SCALE: 1:100

**TRUSS REPAIR PROCEDURE:**

1. NO WORK TO BEGIN UNTIL SHOP DRAWINGS AND INSTALLATION PROCEDURES HAVE BEEN SUBMITTED AND REVIEWED BY ENGINEER.
2. TRUSS TO BE REINFORCED UNDER CONDITIONS OF NO LOAD.
3. PROVIDE TEMPORARY SUPPORT FOR CEILING ON EACH SIDE OF TRUSS IN AREA OF WORK.
4. REMOVE EXISTING INSULATION, ATTIC FLOOR DECKING, CEILING BOARDS, AND FRAMING IN AREA OF WORK AS INDICATED TO EXTENT REQUIRED FOR INSTALLATION OF WEB AND BOTTOM CHORD REINFORCING CHANNELS. (ALL DAMAGED CEILING COMPONENTS TO BE REPLACED BY CONTRACTOR TO MATCH EXISTING UPON REINSTATEMENT).
5. INSTALL TEMPORARY SUPPORT AND JACKING SYSTEM AS REQUIRED TO LIFT AND SUPPORT TRUSS AND BRING IT UP TO ELEVATION OF ADJACENT TRUSSES. SUPPORT AT TOP CHORD WITHIN 300 mm OF JOINTS.
6. ONCE JACKS TAKE DEAD LOAD OFF OF SYSTEM, TEMPORARILY SUPPORT BOTTOM CHORD AND LOOSEN CONNECTION BOLTS/RODS AT BOTTOM CHORD AND INTERMEDIATE BUILT-UP HORIZONTAL MEMBER.
7. REMOVE SECTION OF BUILT-UP HORIZONTAL MEMBER AS INDICATED.
8. INSTALL WOOD FILLERS, (SINGLE LENGTH), CUT TO REQUIRED DIMENSIONS IN WEB AND BOTTOM CHORD AS INDICATED. WOOD FILLERS TO BE GRADED SELECT STRUCTURAL, SPF 54S, DIMENSION TIMBERS MILLED TO REQUIRED DIMENSIONS.
9. INSTALL MISCELLANEOUS STEEL PLATES AND CHANNELS AS DETAILED ON REVIEWED SHOP DRAWINGS.
10. FIELD DRILL NEW BOLT/ROD HOLES. INSTALL AND TIGHTEN ALL BOLTS/RODS.
11. REPLACE ALL BOLTS/RODS IN EXISTING BOTTOM CHORD CONNECTIONS AS REQUIRED TO SUIT INCREASED WIDTH OF BOTTOM CHORD.
12. TIGHTEN ALL EXISTING/REINSTALLED/NEW BOLTS/RODS.
13. REMOVE TEMPORARY TRUSS JACK SUPPORTS/SHORING.
14. INSTALL NEW CEILING SUPPORT FRAMING.
15. REMOVE TEMPORARY CEILING SUPPORT/SHORING.
16. REINSTATE ALL ADJACENT BUILDING COMPONENTS REMOVED FOR INSTALLATION OF WORK. MATCH ADJACENT FINISHES.

**Valron ENGINEERS inc.**  
STRUCTURAL CONSULTANTS  
100 Cameron Street, Suite 5000, Moncton, New Brunswick, E1C 5Y6  
Tel: (506) 856-9601 Web: <http://www.valron.ca>  
Fax: (506) 854-6820 E-mail: [valron@valron.ca](mailto:valron@valron.ca)  
Job No. 11014-1

ALL DETAILS AND NOTES FOR STRUCTURAL REQUIREMENTS AS SHOWN ON THIS DRAWING ARE PROVIDED SPECIFICALLY FOR THIS PROJECT AND ARE THE SOLE PROPERTY OF VALRON ENGINEERS INC. THEY MAY NOT BE REPRODUCED, COPIED OR OTHERWISE USED WITHOUT EXPRESSED WRITTEN PERMISSION FROM THE ABOVEMENTIONED. COPYRIGHT 2011, VALRON ENGINEERS INC.

Key plan	Plan c16
----------	----------

No.	Date	Revisions
0	JUNE 14, 2011	ISSUED FOR TENDER

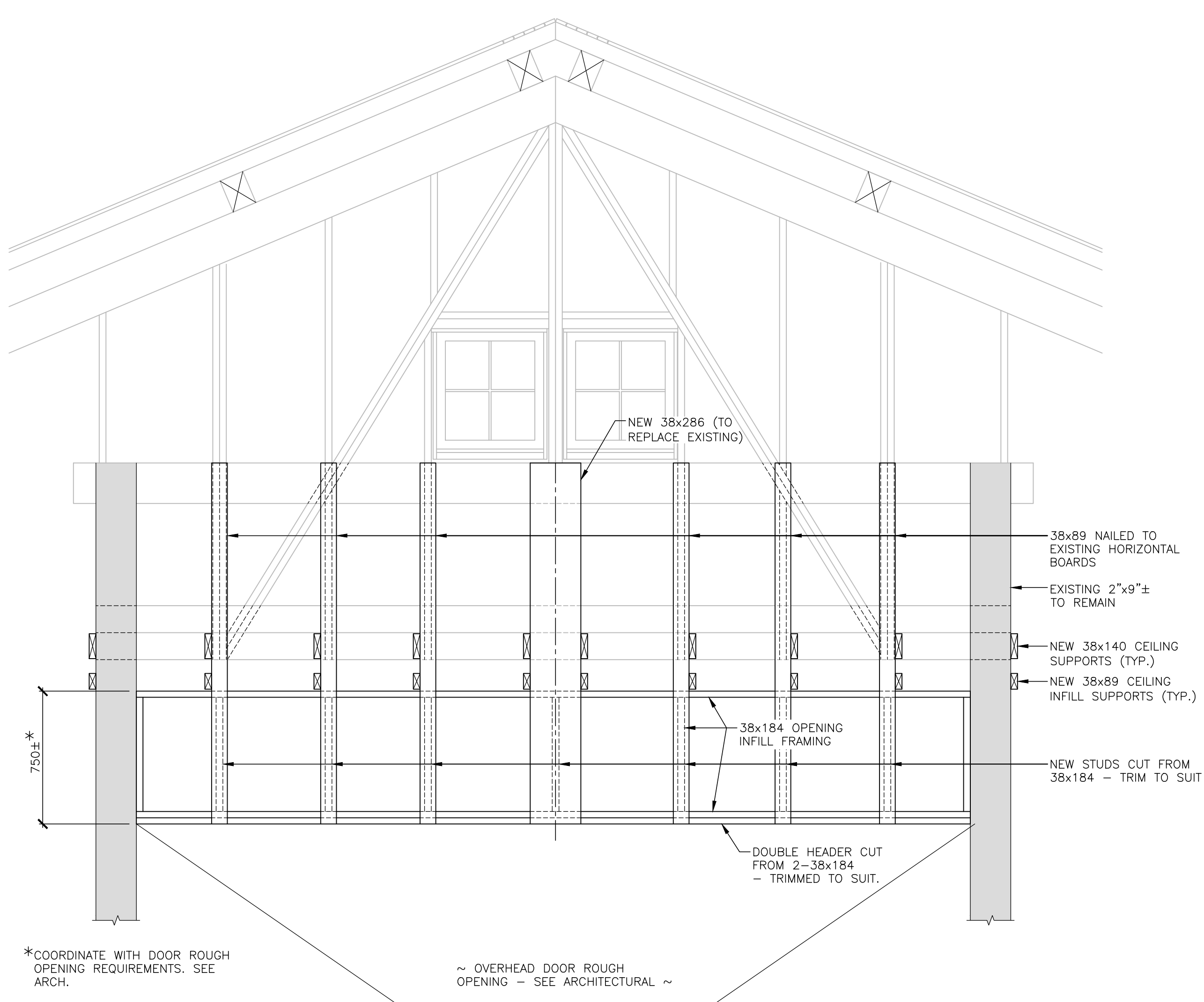
Architects  
**architecture 2000 inc.**  
1199 Main Street, Suite 200  
Moncton, New Brunswick  
E1C 1H9  
Tel: (506) 383-8500  
Fax: (506) 383-6833  
Email: [a2000inc@nbnet.nb.ca](mailto:a2000inc@nbnet.nb.ca)  
Web: [www.architecture2000.ca](http://www.architecture2000.ca)

Consultants  
Ingenieurs conseils  
**STRUCTURAL**  
Valron Engineers Inc.  
Phone: 506-856-9601  
Fax: 506-854-6820  
E-mail: [valron@valron.ca](mailto:valron@valron.ca)

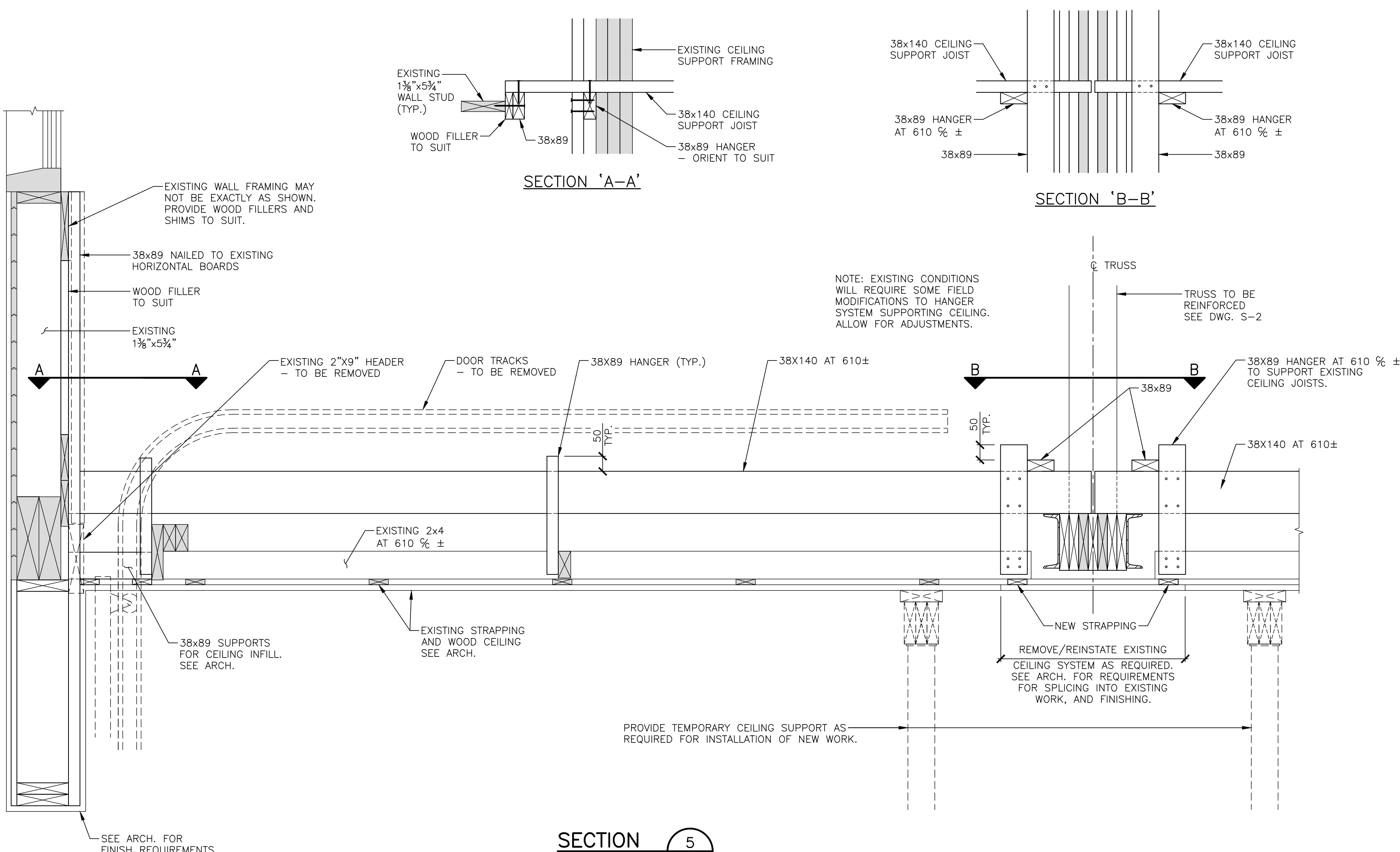
Project  
**NAPPAN RESEARCH FARM  
BUILDING #15 ROOF REPLACEMENT**  
Nappan, N.S.

Drawing  
**STRUCTURAL REPAIR  
WALL/CEILING MODIFICATIONS  
PLAN, SECTIONS,  
DETAILS AND NOTES**

Designed by Conçu par R.B.V.	Professional Stamp Professional Stempel
Drawn by Dessiné par R.K.	Scale Echelle AS NOTED
Approved by Approuvé par	Date MAY 2011
Project no. 3111	Drawing no. S-1
No. du projet	No. du dessin



**PARTIAL END WALL ELEVATION  
AT TOP/ DOOR OPENING INFILL**  
SCALE: 1:20



**SECTION 5**  
SCALE: 1:10

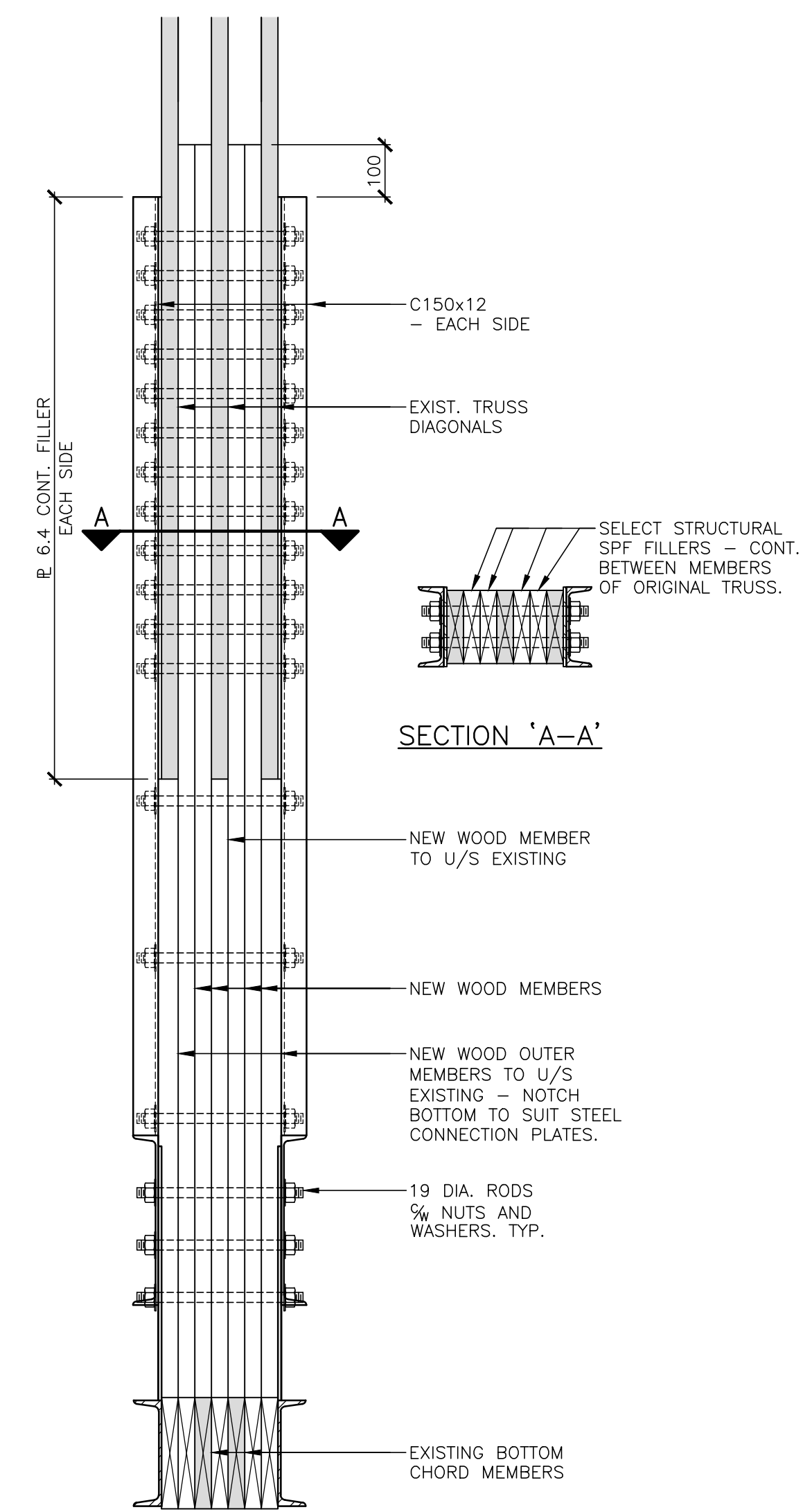
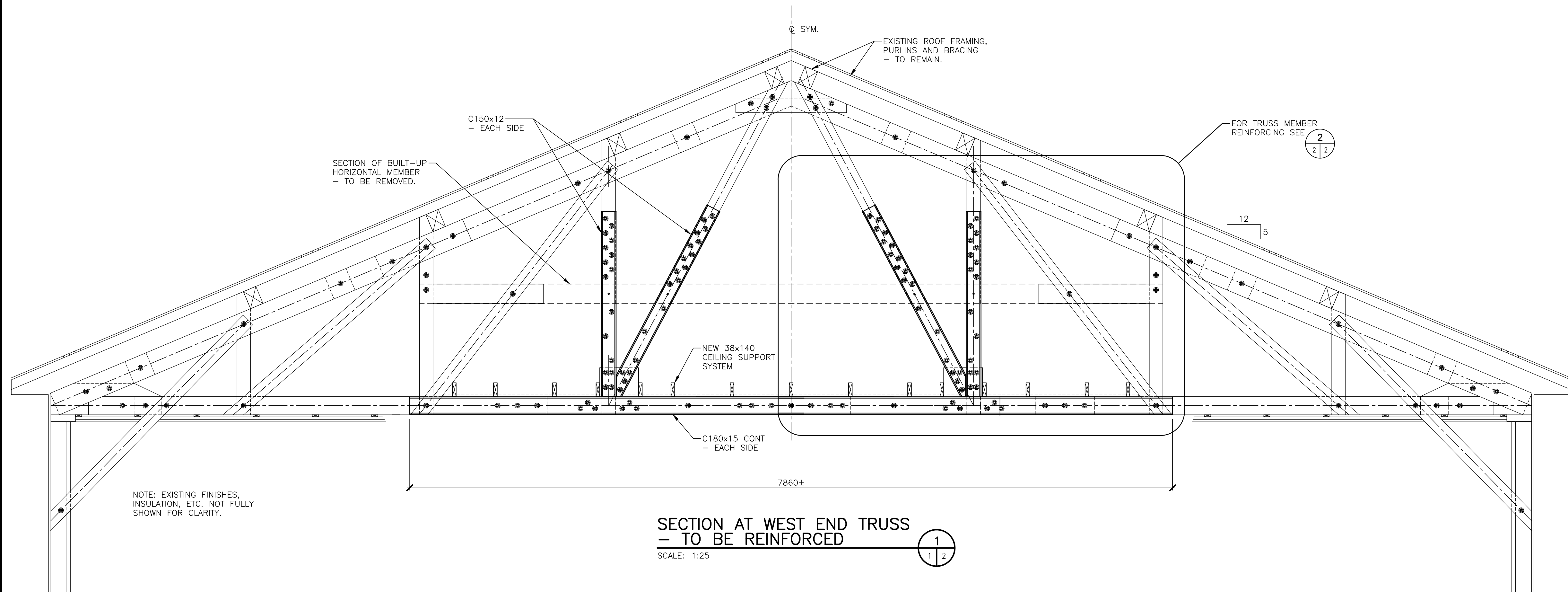
\*COORDINATE WITH DOOR ROUGH OPENING REQUIREMENTS. SEE ARCH.

~ OVERHEAD DOOR ROUGH OPENING - SEE ARCHITECTURAL ~

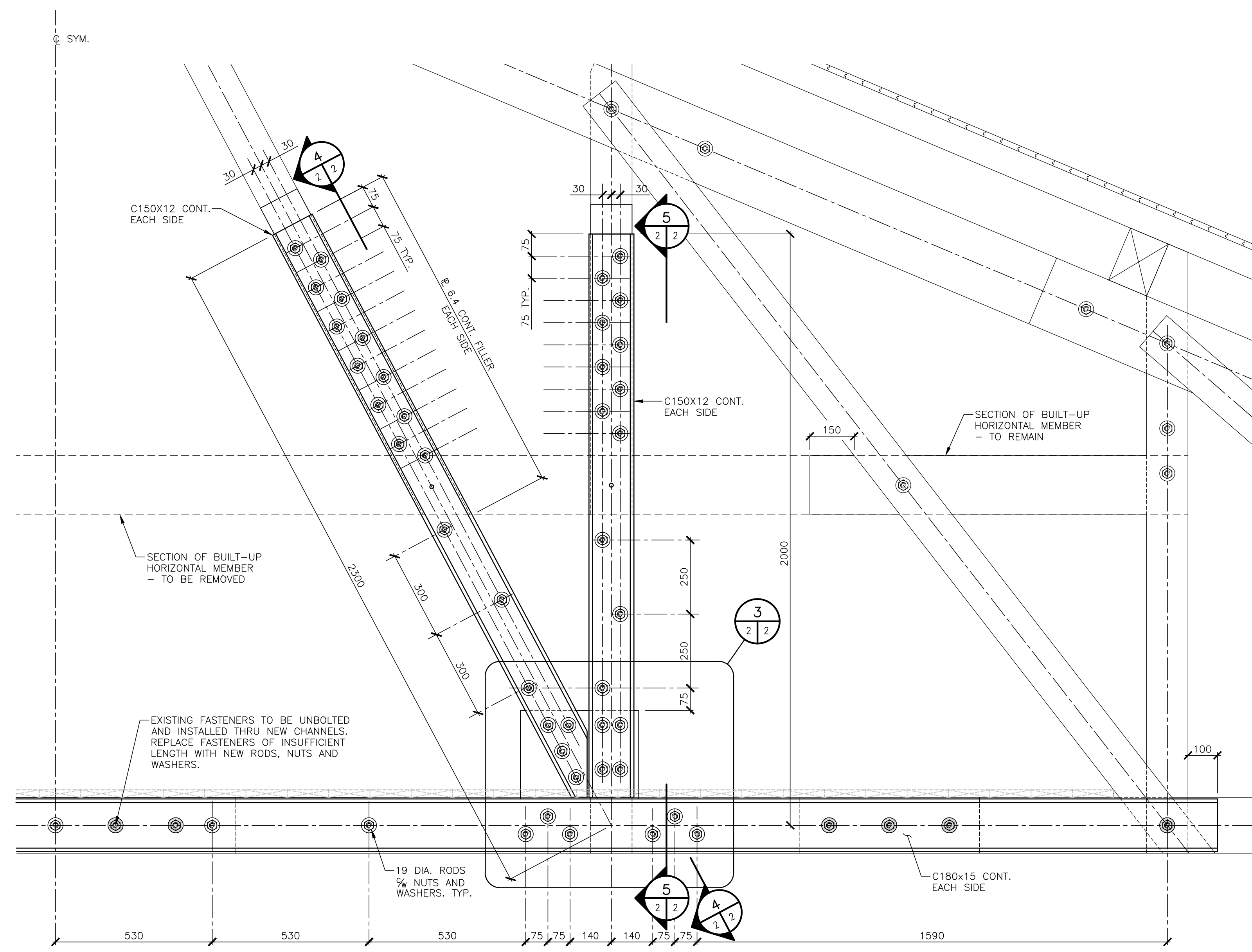
PROVIDE TEMPORARY CEILING SUPPORT AS REQUIRED FOR INSTALLATION OF NEW WORK.

REMOVE/REINSTATE EXISTING CEILING SYSTEM AS REQUIRED. SEE ARCH. FOR REQUIREMENTS FOR SPlicing INTO EXISTING WORK, AND FINISHING.

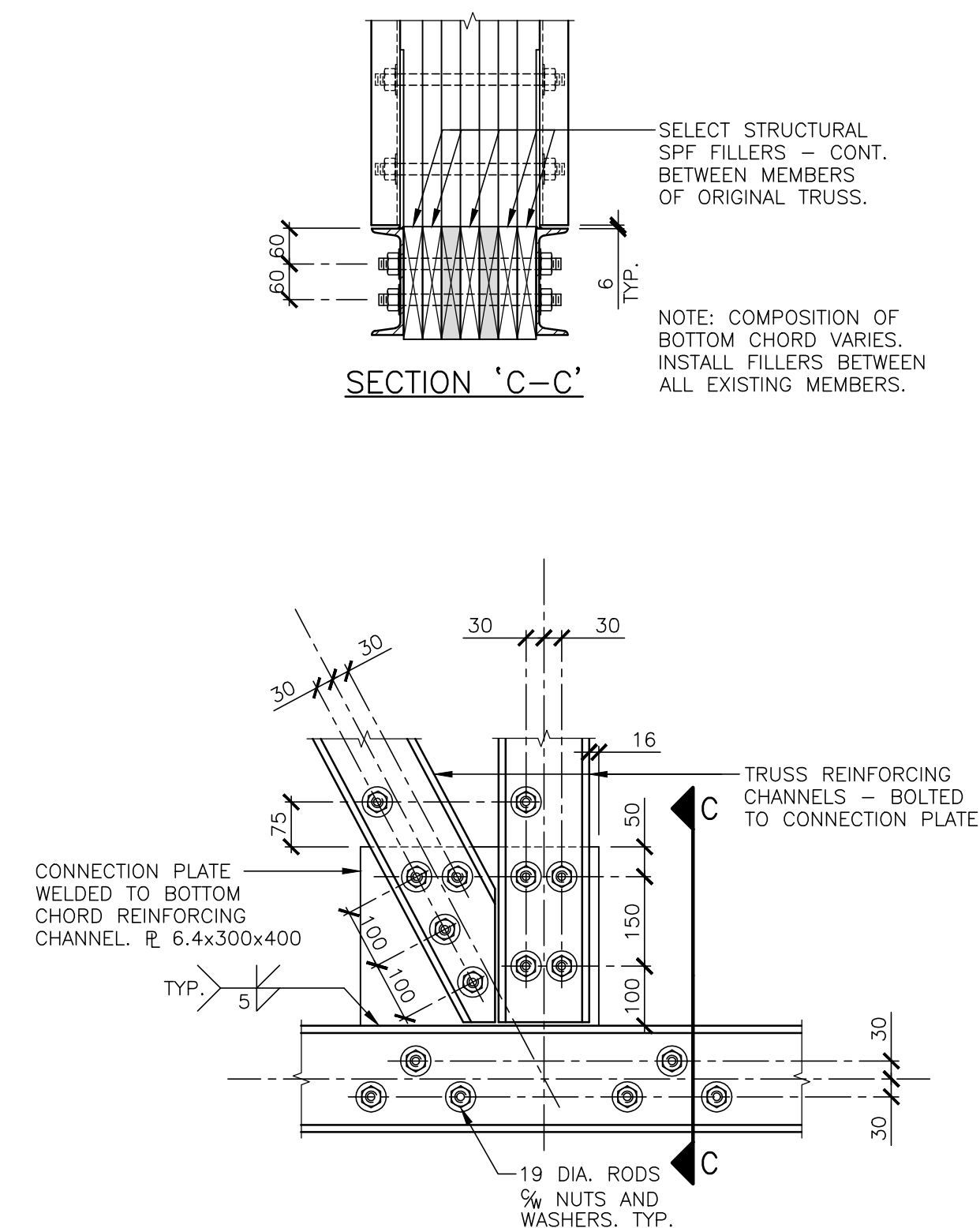




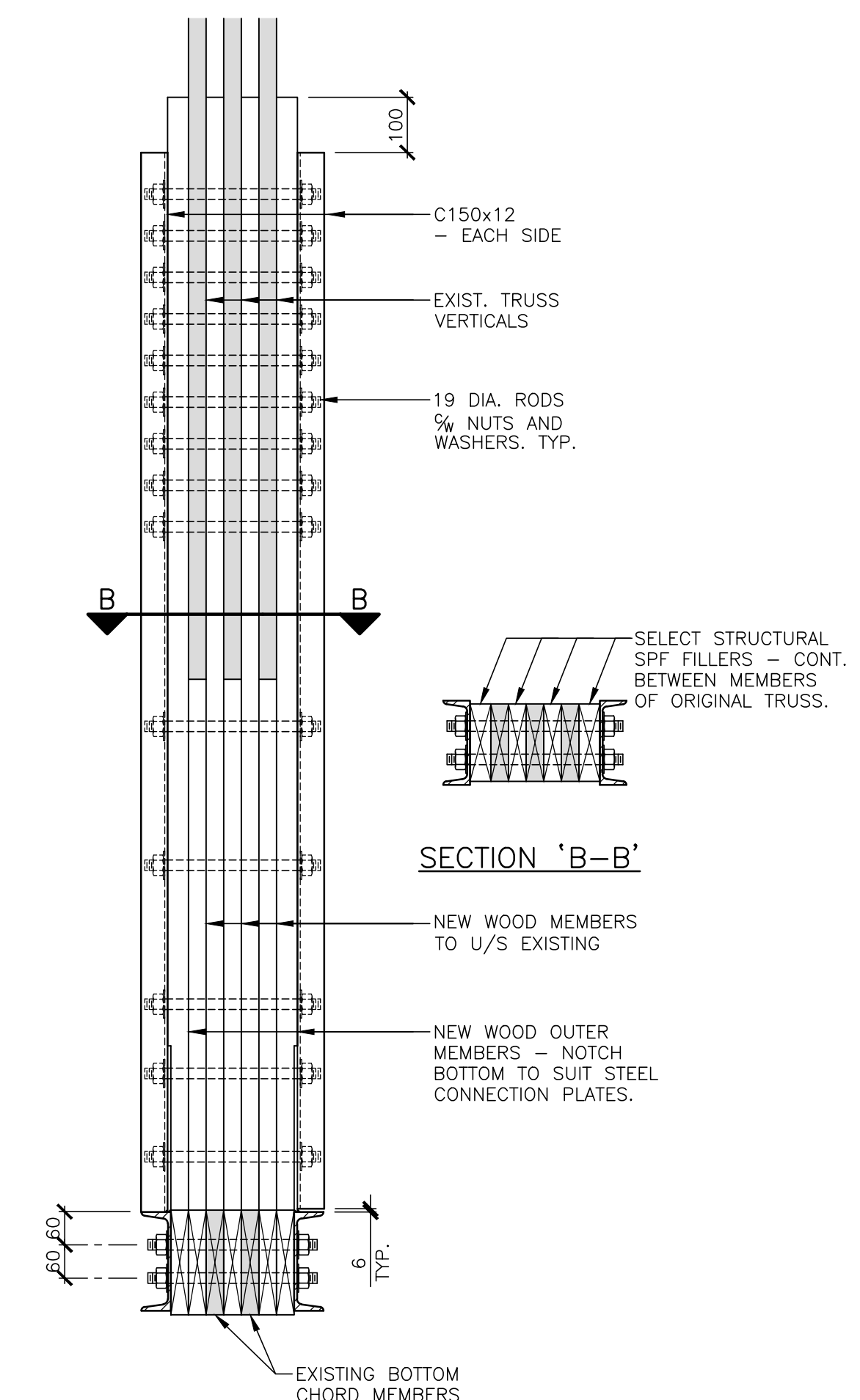
REINFORCING AT TRUSS DIAGONALS 4  
SCALE: 1:10



PARTIAL ELEVATION - TRUSS REINFORCING 2  
SCALE: 1:10



BOTTOM CONNECTION DETAILS 3  
SCALE: 1:10



REINFORCING AT TRUSS VERTICALS 5  
SCALE: 1:10

**Valron ENGINEERS inc.**  
STRUCTURAL CONSULTANTS  
100 Cameron Street, Suite 5000, Moncton, New Brunswick, E1C 5Y6  
Tel: (506) 856-9601 Web: http://www.valron.ca  
Fax: (506) 854-6820 E-mail: valron@valron.ca  
Job No. 11014-1

ALL DETAILS AND NOTES FOR STRUCTURAL REQUIREMENTS AS SHOWN ON THIS DRAWING ARE PROVIDED SPECIFICALLY FOR THIS PROJECT AND ARE THE SOLE PROPERTY OF VALRON ENGINEERS INC. THEY MAY NOT BE REPRODUCED, COPIED OR OTHERWISE USED WITHOUT EXPRESSED WRITTEN PERMISSION FROM THE ABOVEMENTIONED. COPYRIGHT 2011, VALRON ENGINEERS INC.

Key plan Plan c16

○ JUNE 14, 2011 ISSUED FOR TENDER

No.	Date	Revisions

Architects Architects  
**architecture 2000 inc.**  
1199 Main Street, Suite 200  
Moncton, New Brunswick  
E1C 1H9  
Tel: (506) 383-8500  
Fax: (506) 383-6833  
Email: a2000inc@nbnet.nb.ca  
Web: www.architecture2000.ca

Consultants Ingenieurs conseils  
**STRUCTURAL**  
Valron Engineers Inc.  
Phone: 506-856-9601  
Fax: 506-854-6820  
E-mail: valron@valron.ca

Project Project  
**NAPPAN RESEARCH FARM  
BUILDING #15 ROOF REPLACEMENT**  
Nappan, N.S.

Drawing Dessin  
**STRUCTURAL REPAIR  
TRUSS REINFORCING  
SECTIONS AND DETAILS**

Designed by Conçu par  
R.B.V.  
Professional Stamp

Drawn by Dessiné par  
R.K.  
Professional Stamp

Approved by Approuvé par  
AS NOTED  
Professional Stamp

Scale Echelle  
AS NOTED

Date Date  
MAY 2011

Project no. Drawing no.  
3111 S-2

No. du projet No. du dessin

