



# Fort Babine Lodge

PO BOX 879-225  
Sus Ave  
Burns Lake, BC

Lake Babine First Nation

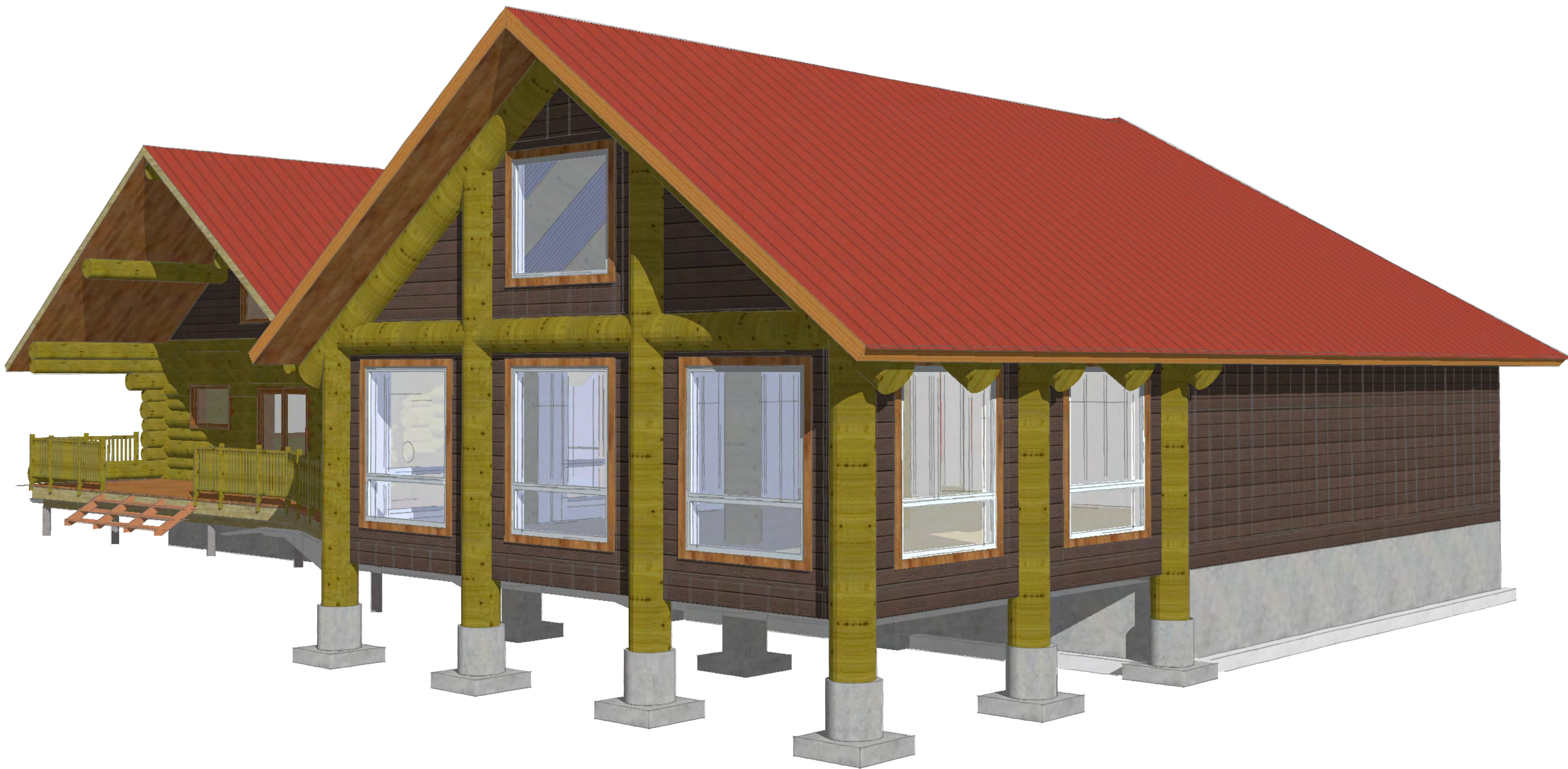
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February 26 2018

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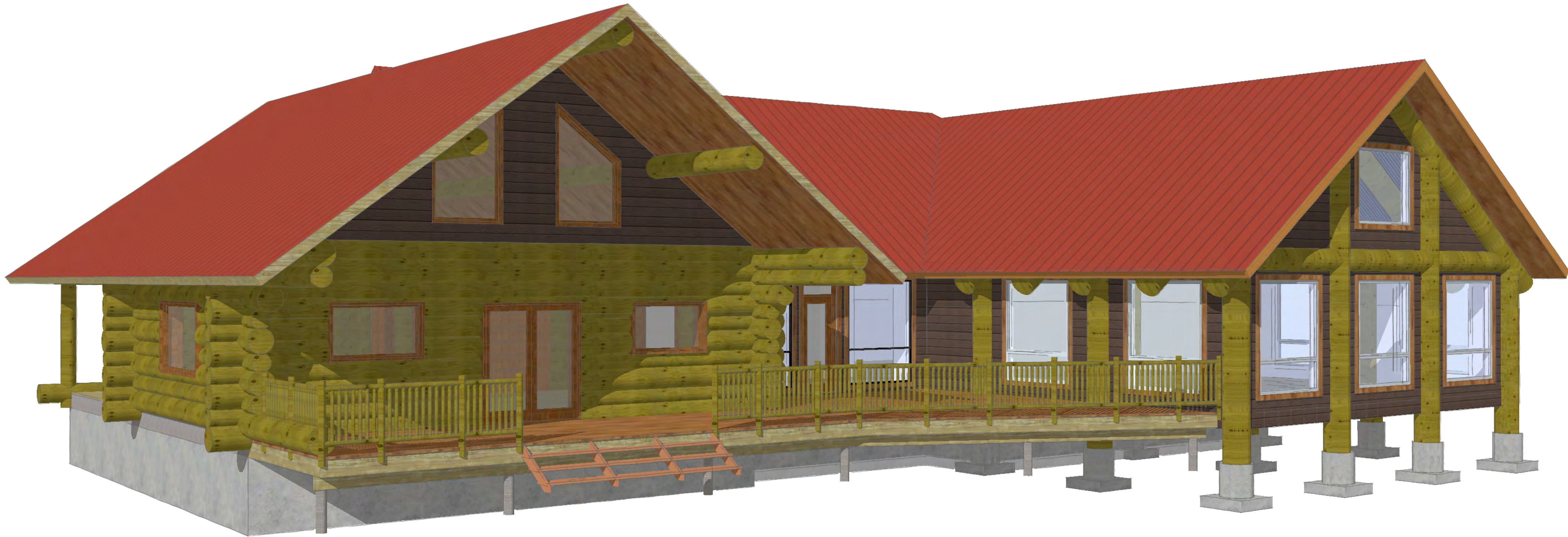
Lodge  
Rendering

A2.





1 Front Perspectives  
A2. NTS



1 Front Perspectives  
A2. NTS

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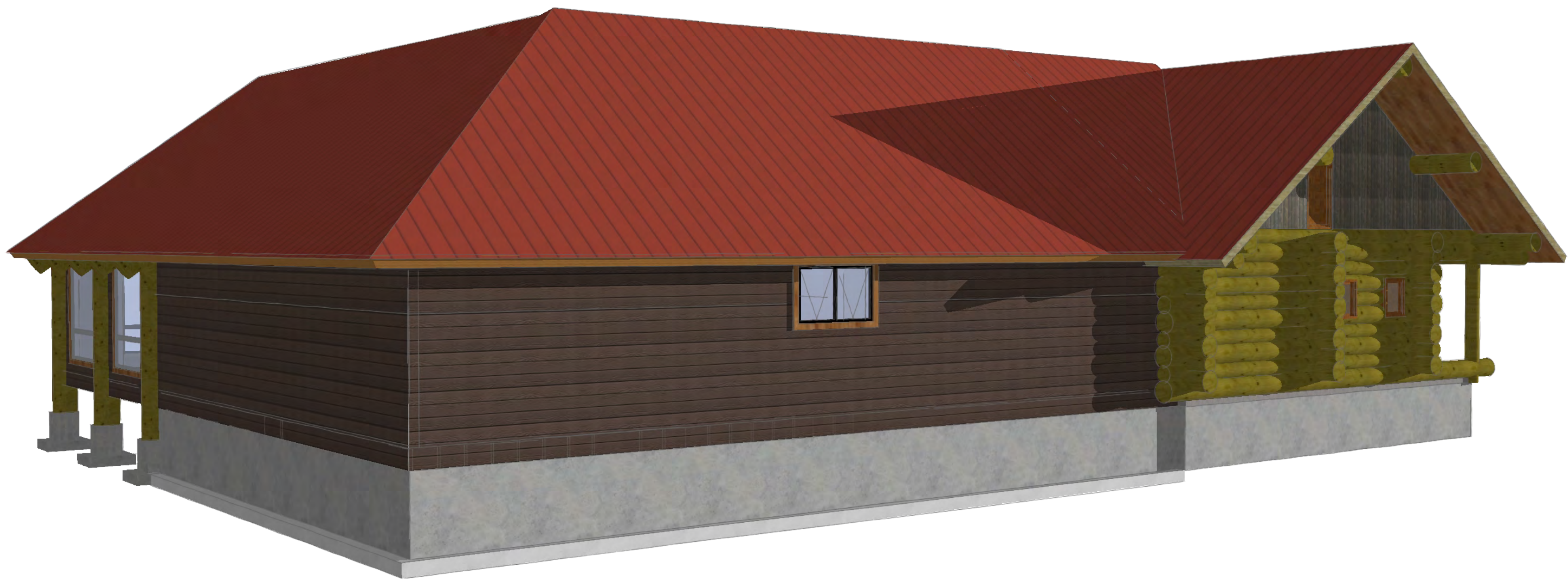
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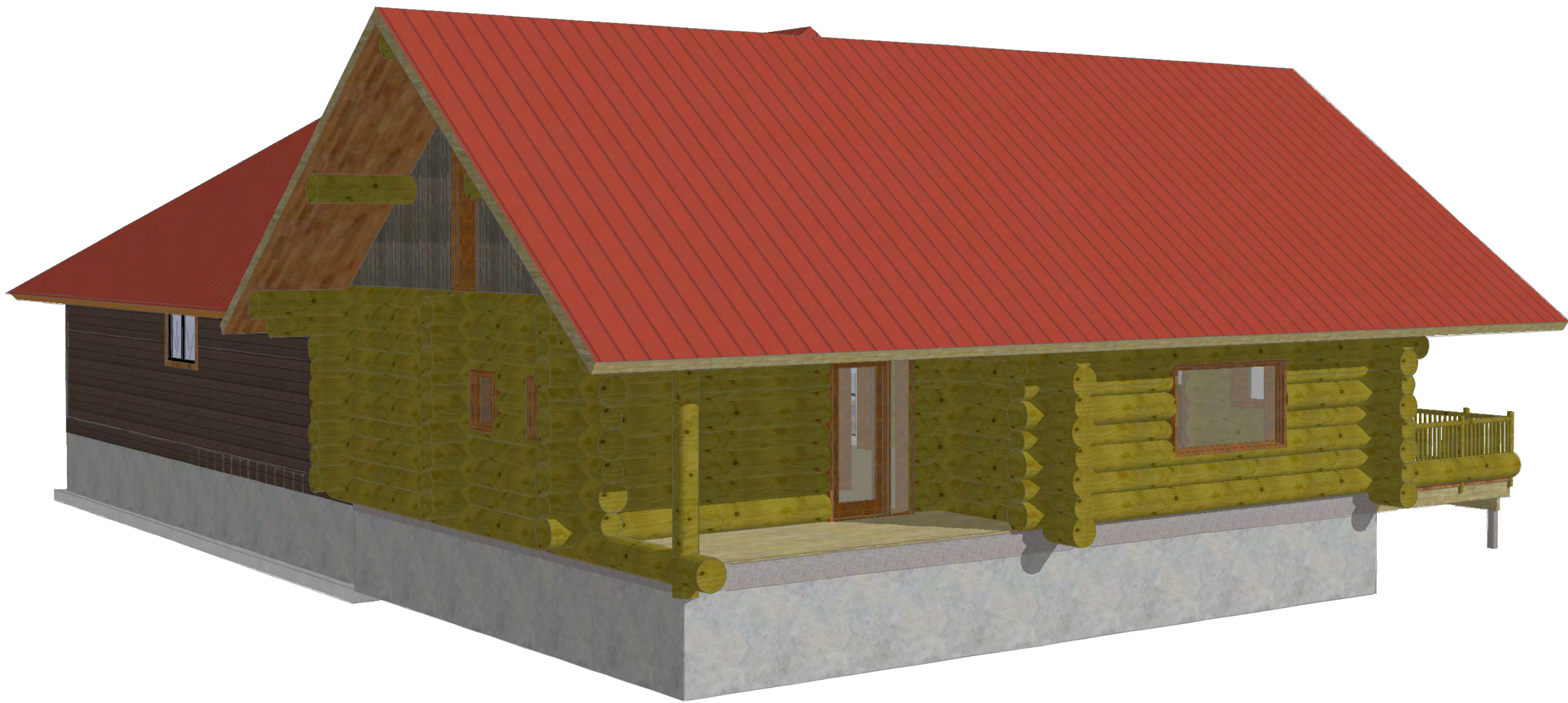
Front Perspectives

A2.





1 Back Perspectives  
A2. NTS



1 Back Perspectives  
A2. NTS

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Back Perspectives

A2.



General Notes

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ALL DIMENSIONS ARE TO FACE OF FRAMING OR CONCRETE, UNDIMENSIONED WINDOWS AND DOORS ARE LOCATED EITHER AT CENTER OF SPACE OR 3" OFF CORNER, 2-2x10 LINTELS UP TO 72", 3-2x10 OVER WITH 2x CRIPPLES

SITE PLAN NOT PROVIDED

BUILDER TO CONFIRM BUILDING HEIGHT

BUILDER TO CONFIRM PLACEMENT ON SITE WITHIN SETBACKS

VENTILATION TO BE DESIGNED BY HVAC IN ACCORDANCE TO CBC 2012 (9.32)

SEISMIC SCHEMATIC CBC 2012 A-9.23.13.1.(2)(b)(i)

UNRESTRICTED CONSTRUCTION  
SEISMIC ACCELERATION  $S_a(0.2)$  1.1  
BRACE WALL BANDS MAX 7.6 m o.c.



#2-2204 South Island Highway

Campbell River, BC V9W 1R3

778-420-1105

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Basement Floor Plan

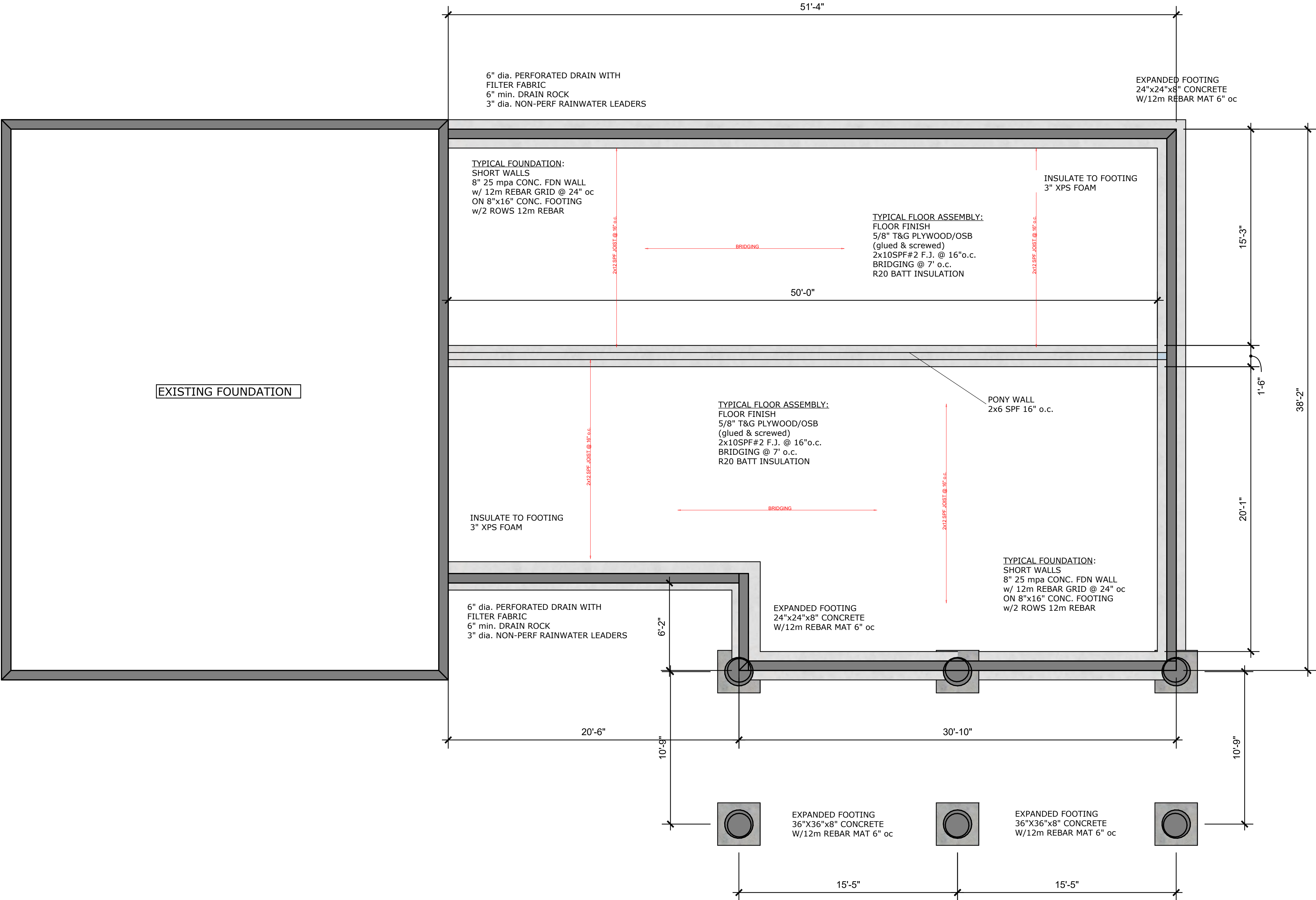
A2.

1 Basement Floor Plan  
A2. 1/4"= 1'-0"

**LEGEND:**

- BEAM ENGINEERED WOOD
- BEAM 2X LUMBER
- COLUMN OR CRIPPLE SIZE
- DRYWALL BRACEWALL (SHEET)
- GIRDER TRUSS
- WOOD TRUSS OR RAFTERS
- I-JOIST OR ENGINEERED JOIST
- BRACEWALL (BY I)
- BRACEWALL BANDS
- VAULTED CEILING
- HOLDDOWN ANCHOR
- ANCHOR FROM ABOVE
- SHEATHED CEILING

NOTE: UN-NOTED BEAMS AND LINTELS TO BE 2-2X10 SPF2  
SHEARWALL STUD SPACING TO BE 16" o.c. WITH NO FINGER JOINT STUDS



COLOUR COPY FOR FRAMING CONTRACTOR  
For ease of construction please provide  
a colour copy of these drawings to your framing contractor



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SITE PLAN NOT PROVIDED  
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BUILDER TO CONFIRM PLACEMENT ON SITE WITHIN SETBACKS

VENTILATION TO BE DESIGNED BY HVAC  
IN ACCORDANCE TO BCBC 2012 (9.32)  
SEISMIC SCHEMATIC BCBC 2012 A-9.23.13.1.(2)(b)(i)

UNRESTRICTED CONSTRUCTION  
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BRACE WALL BANDS MAX 7.6 m o.c.

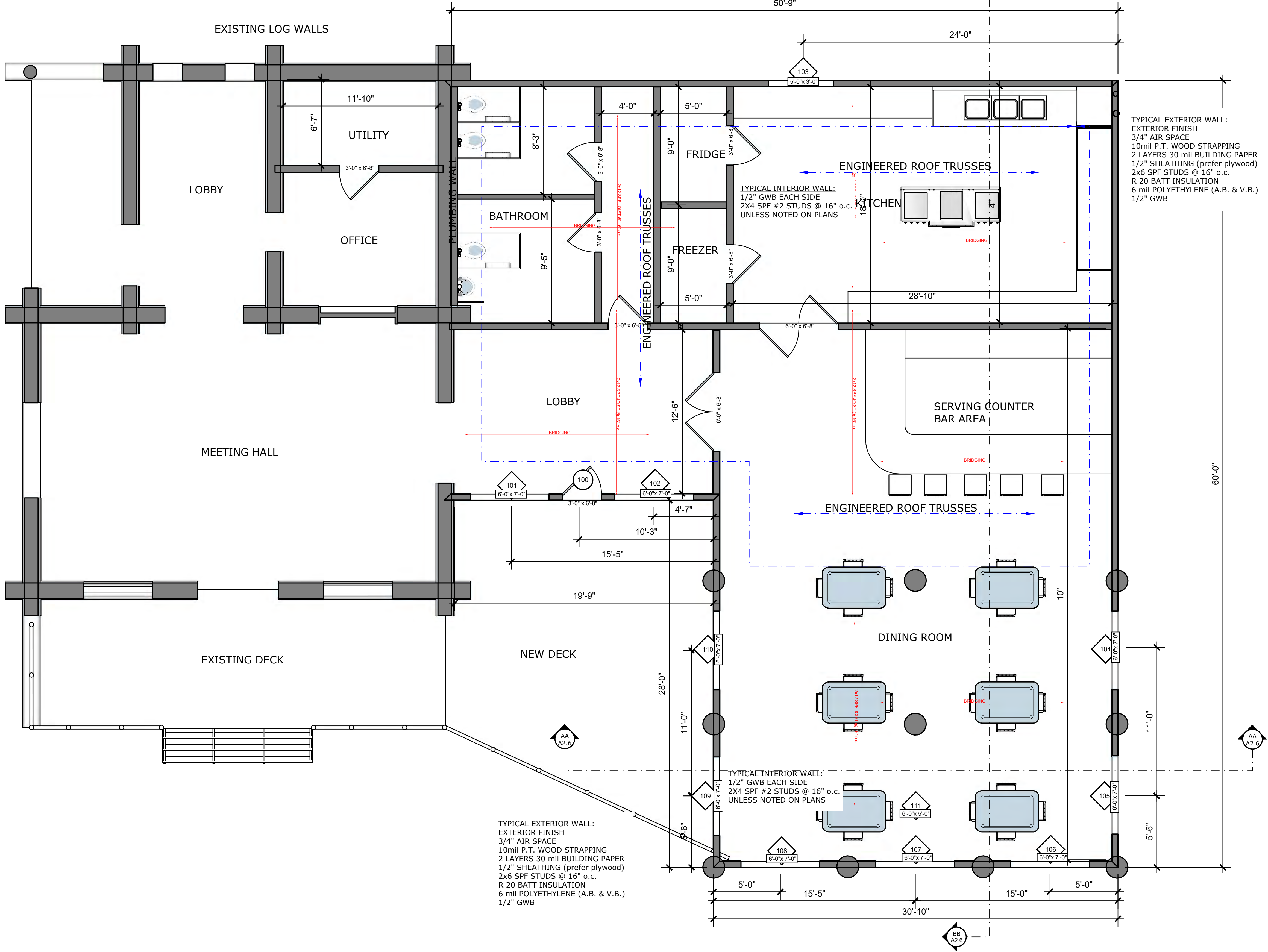


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778-420-1105

**LEGEND:**

- BEAM ENGINEERED WOOD
- BEAM 2X LUMBER
- COLUMN OR CRIPPLE SIZE
- DRYWALL BRACEWALL
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- WOOD TRUSS OR RAFTERS
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- BRACEWALL BANDS
- VAULTED CEILING
- HOLDDOWN ANCHOR
- ANCHOR FROM ABOVE
- SHEATHED CEILING

NOTE: UN-NOTED BEAMS AND LINTELS TO BE 2-2X10 SPF2  
SHEATHED CEILING TO BE 1/2" GWB



TYPICAL EXTERIOR WALL:  
EXTERIOR FINISH  
3/4" AIR SPACE  
10mil P.T. WOOD STRAPPING  
2 LAYERS 30 mil BUILDING PAPER  
1/2" SHEATHING (prefer plywood)  
2x6 SPF STUDS @ 16" o.c.  
R 20 BATT INSULATION  
6 mil POLYETHYLENE (A.B. & V.B.)  
1/2" GWB

TYPICAL INTERIOR WALL:  
1/2" GWB EACH SIDE  
2X4 SPF #2 STUDS @ 16" o.c.  
UNLESS NOTED ON PLANS

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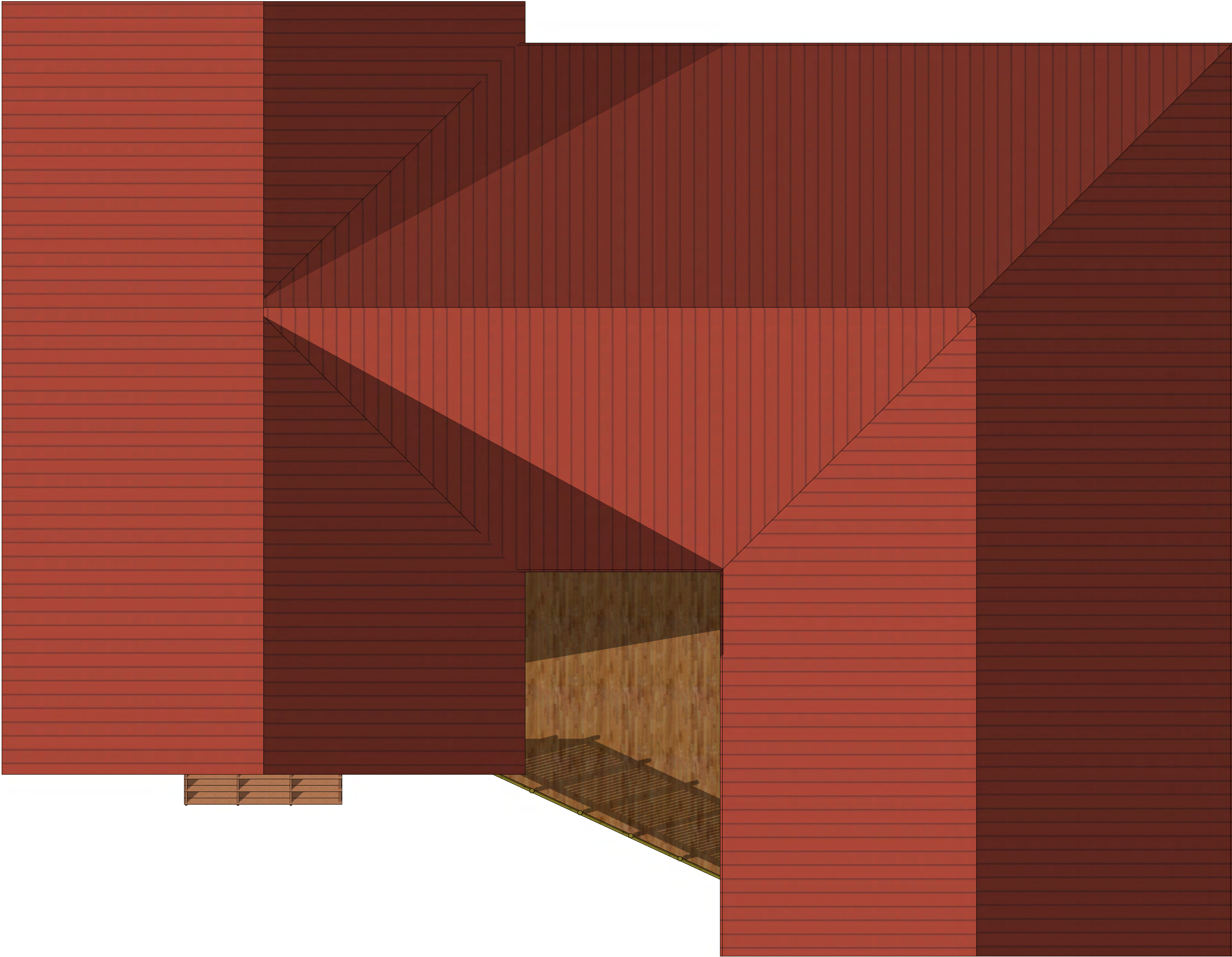
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First Floor Plan

A2.1





1

A2.2

Roof Plan

1/4"= 1'-0"

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Roof Plan

# A2.2





1 RIGHT ELEVATION  
A2.3 1/4" = 1'-0"



1 LEFT ELEVATION  
A2.3 1/4" = 1'-0"



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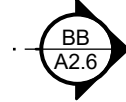
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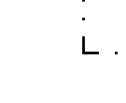
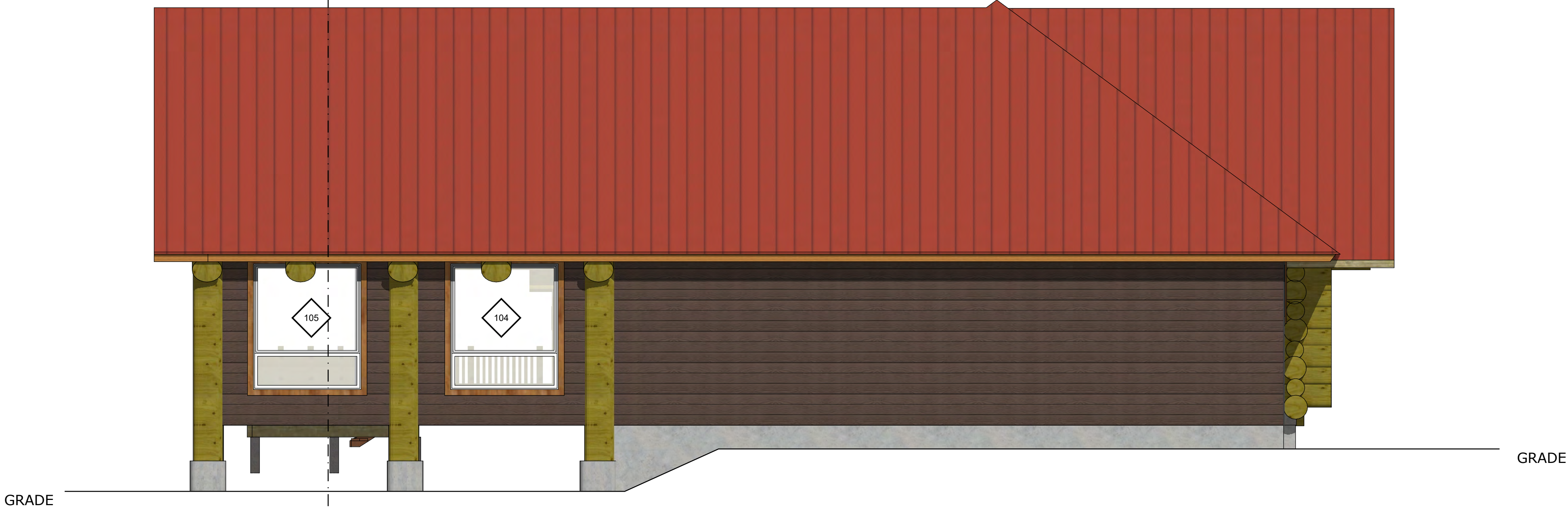
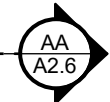
Front & Left  
Elevations

## A2.3





1 Back Elevation  
A2.4 1/4" = 1'-0"



1 Right Elevation  
A2.4 1/4" = 1'-0"



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Back & Right  
Elevations

# A2.4



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VENTILATION TO BE DESIGNED BY HVAC  
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Section AA

A2.5



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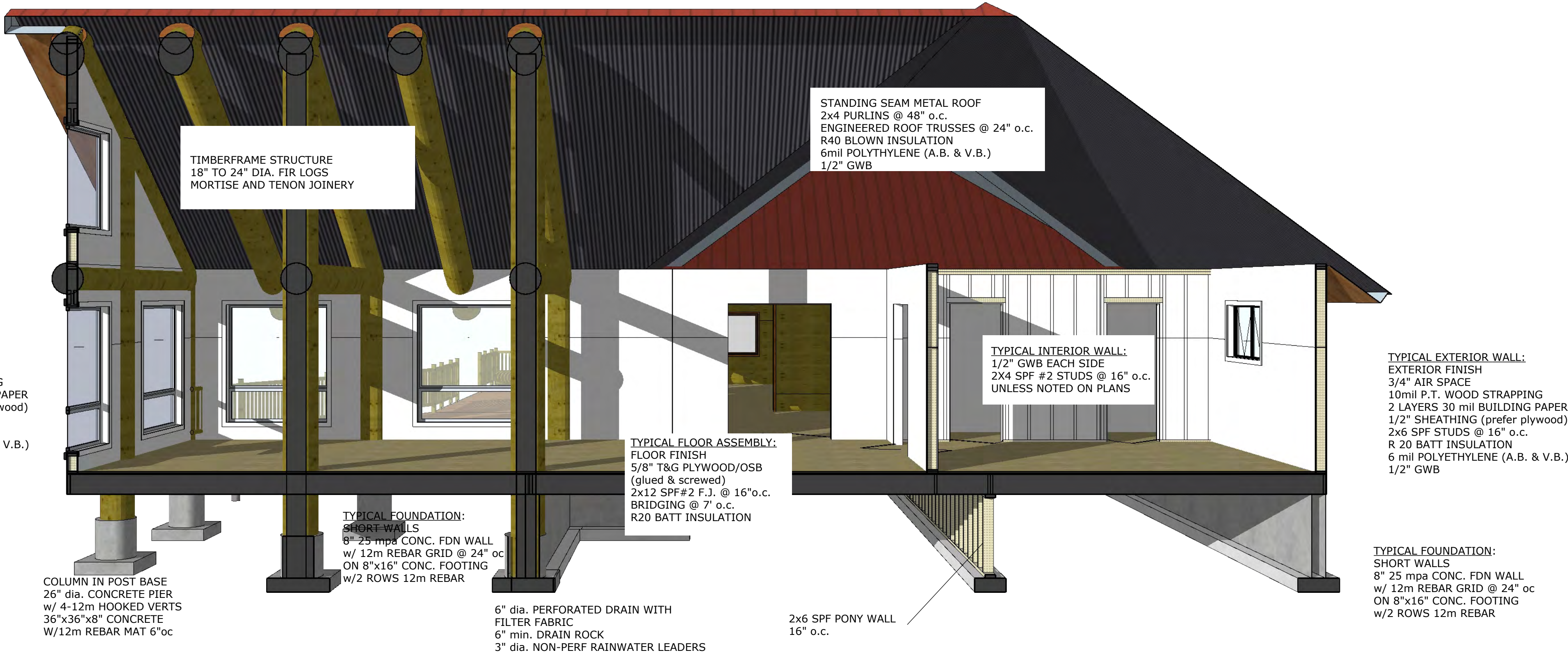
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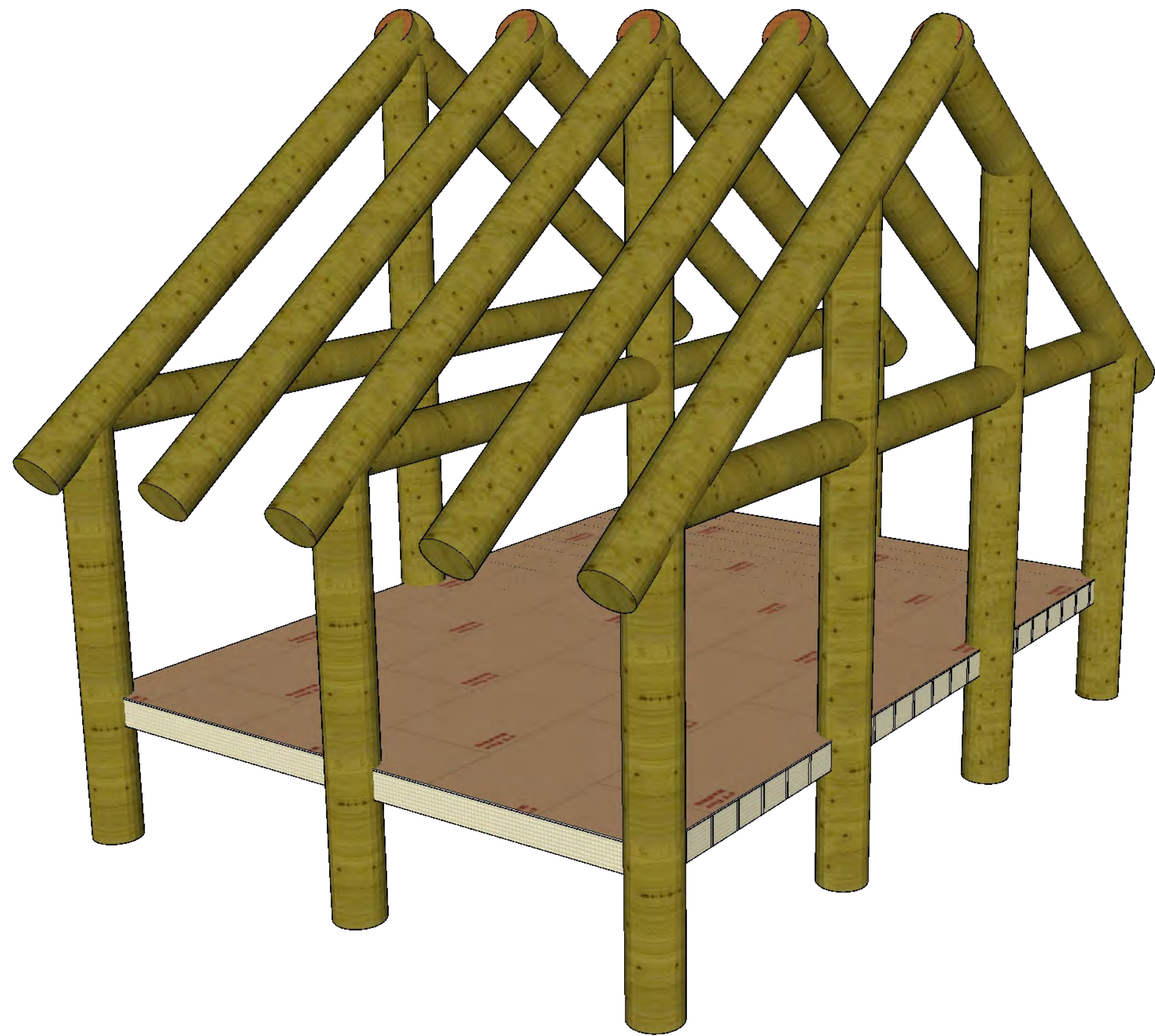
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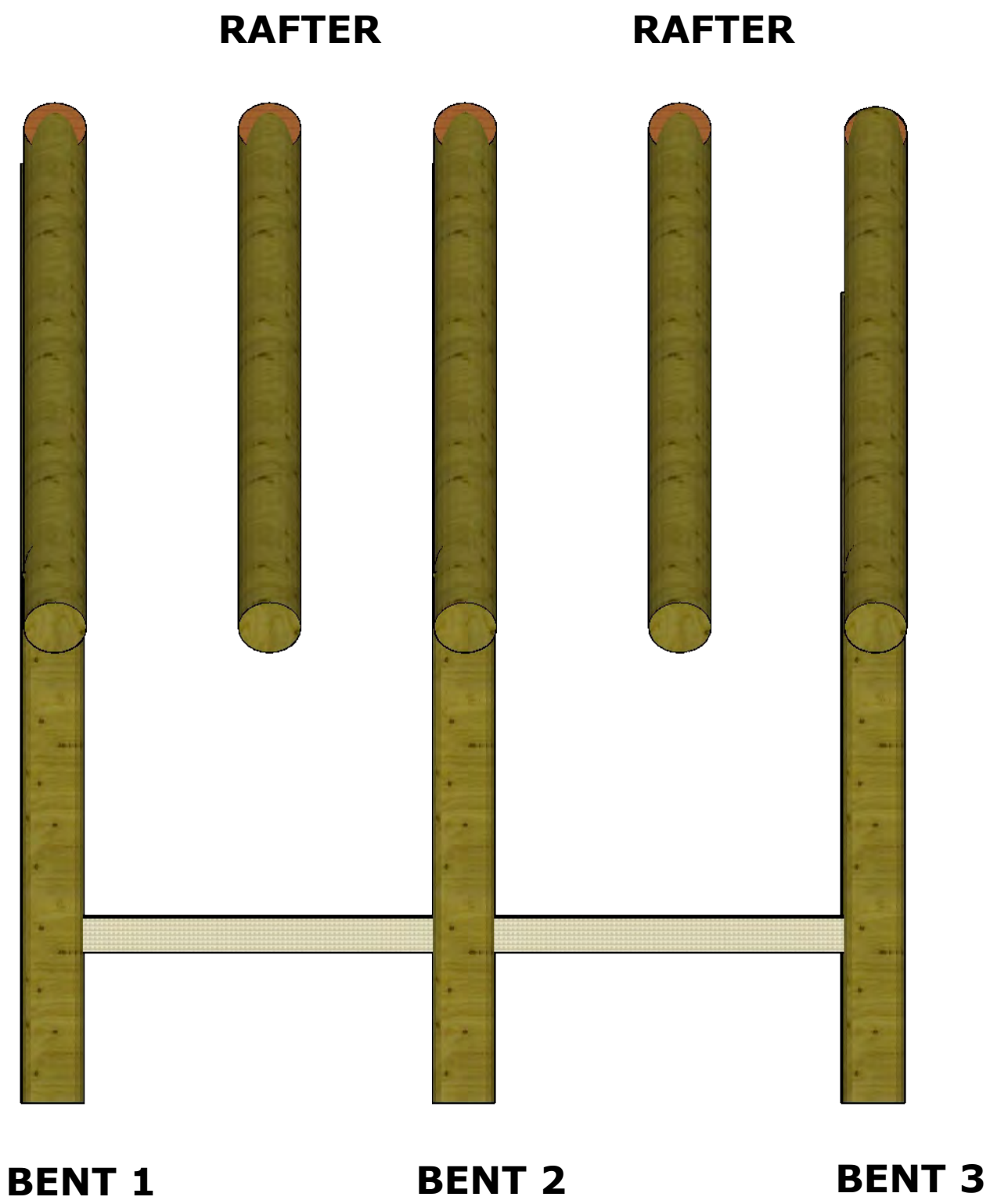
Section BB

A2.6

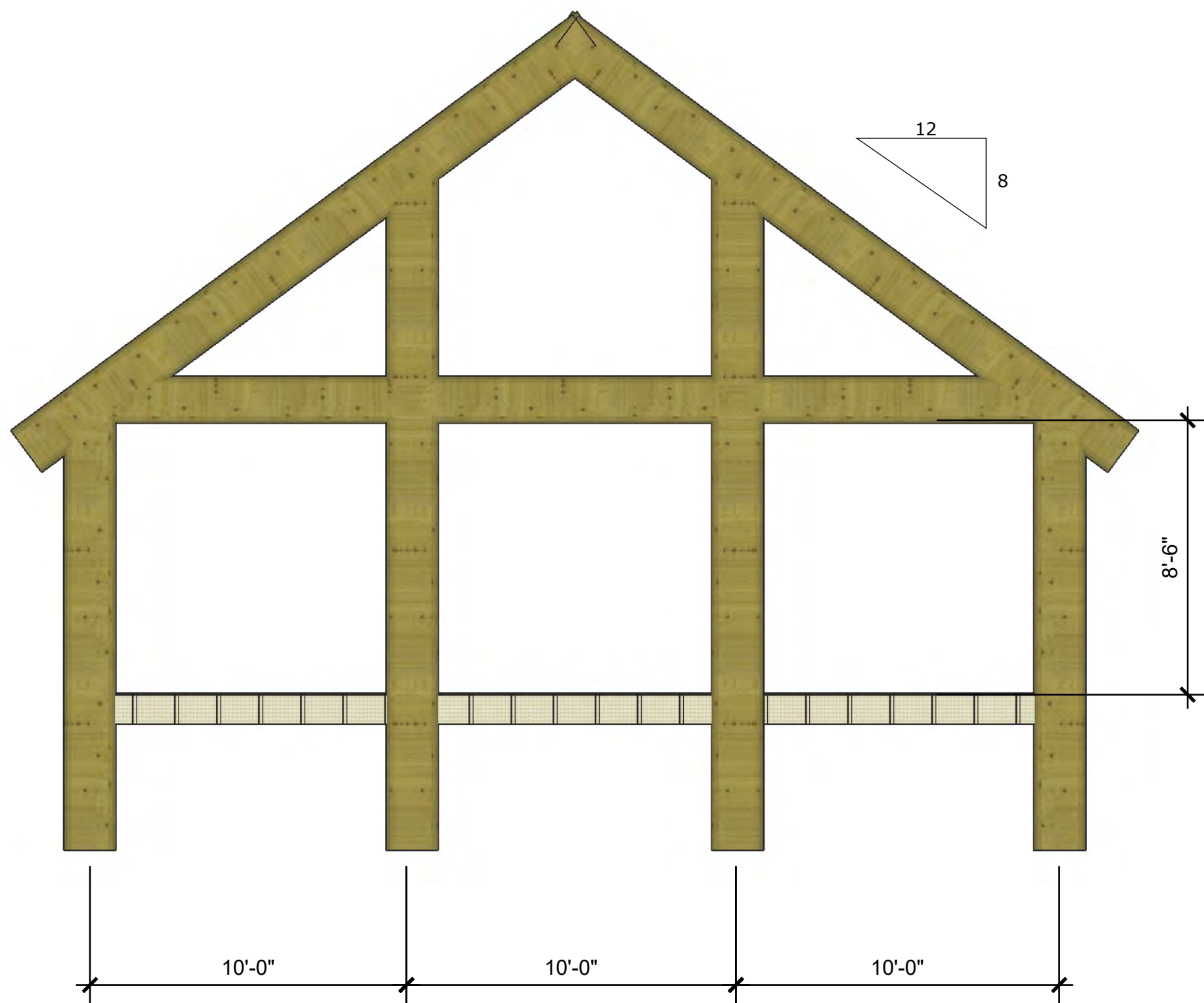




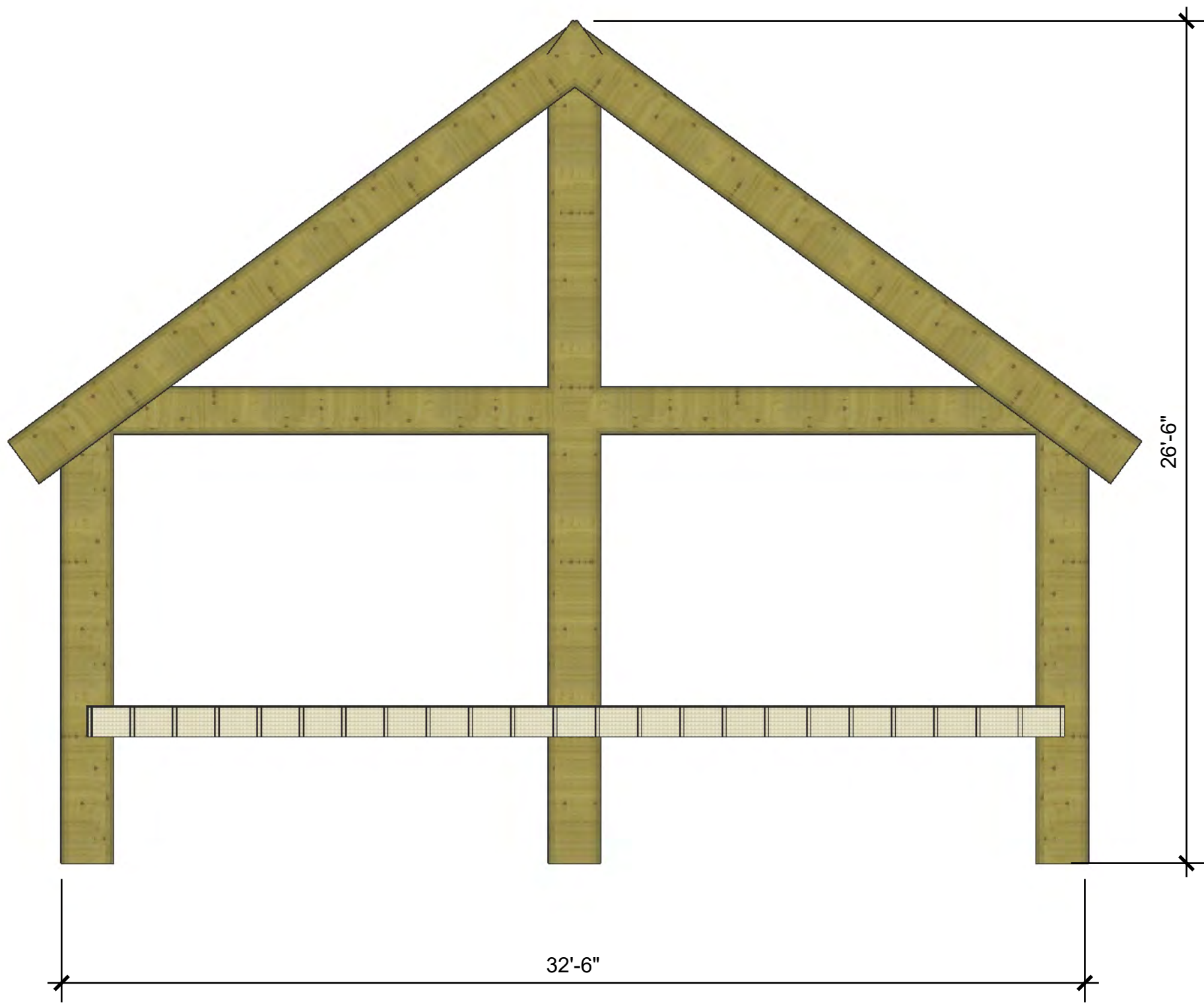
20"-24" dia. log construction  
mortise and tenon joinery



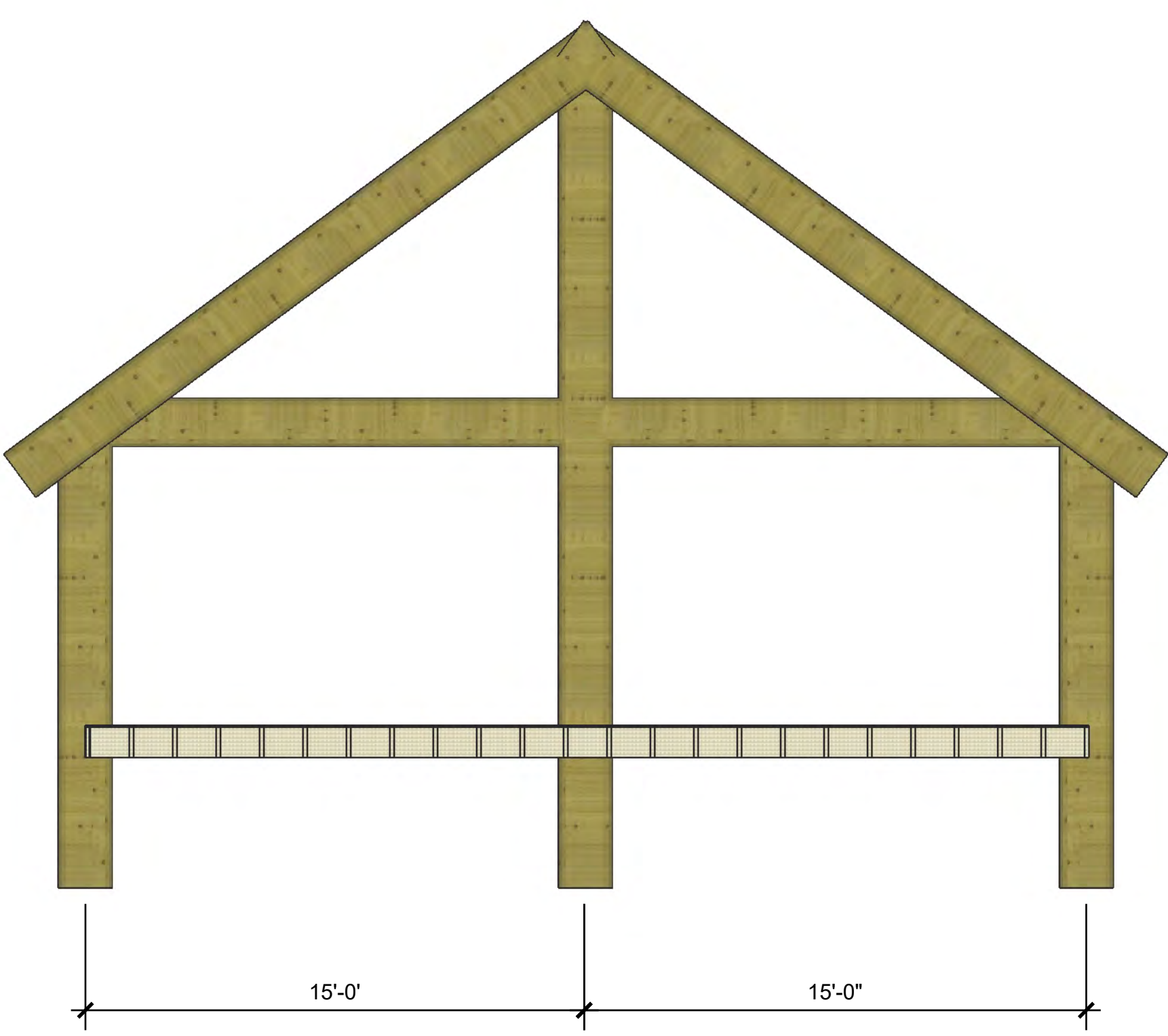
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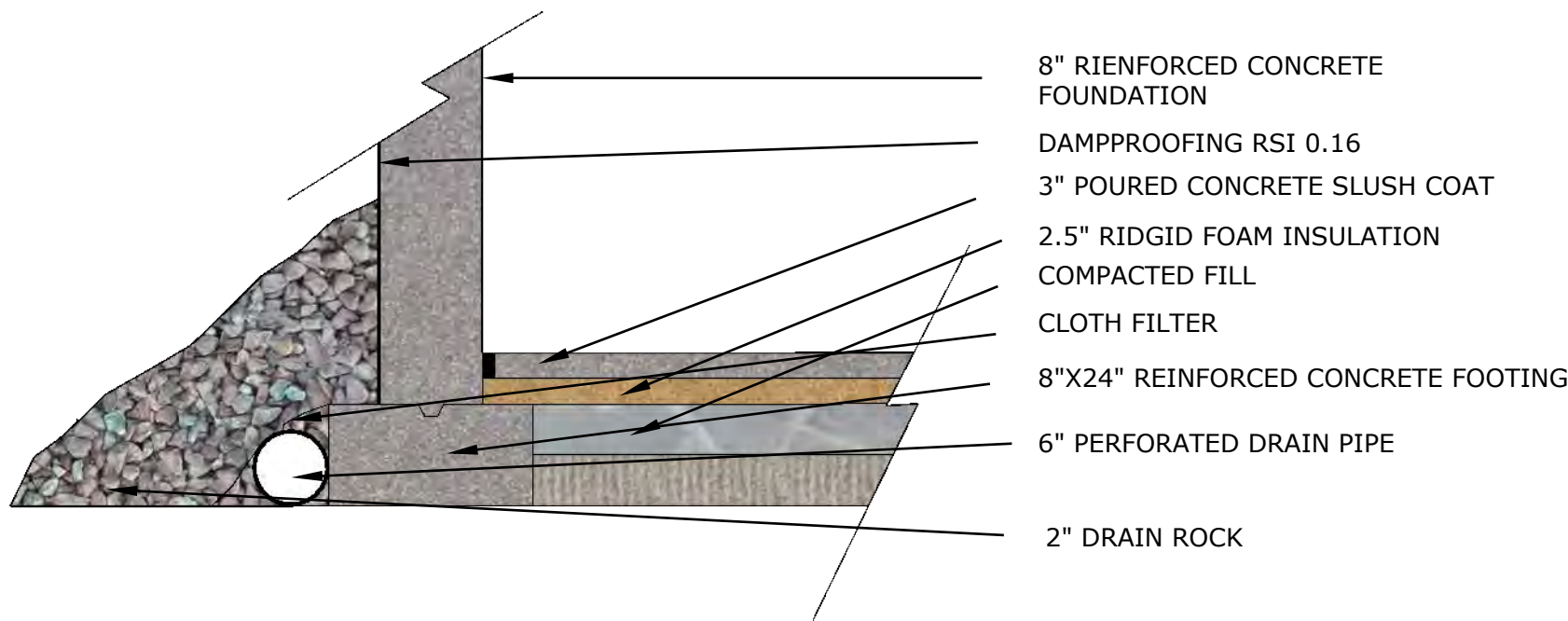
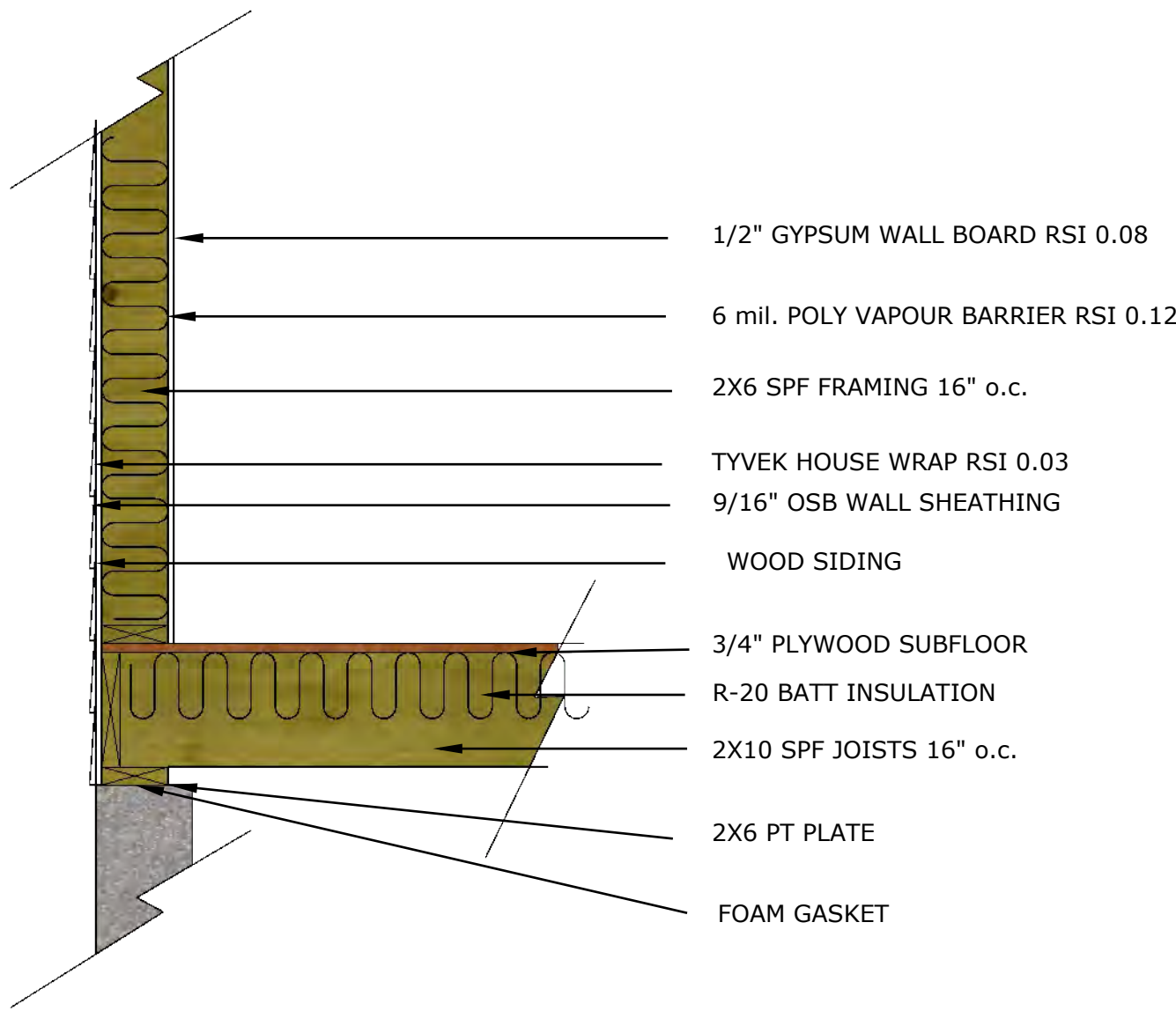
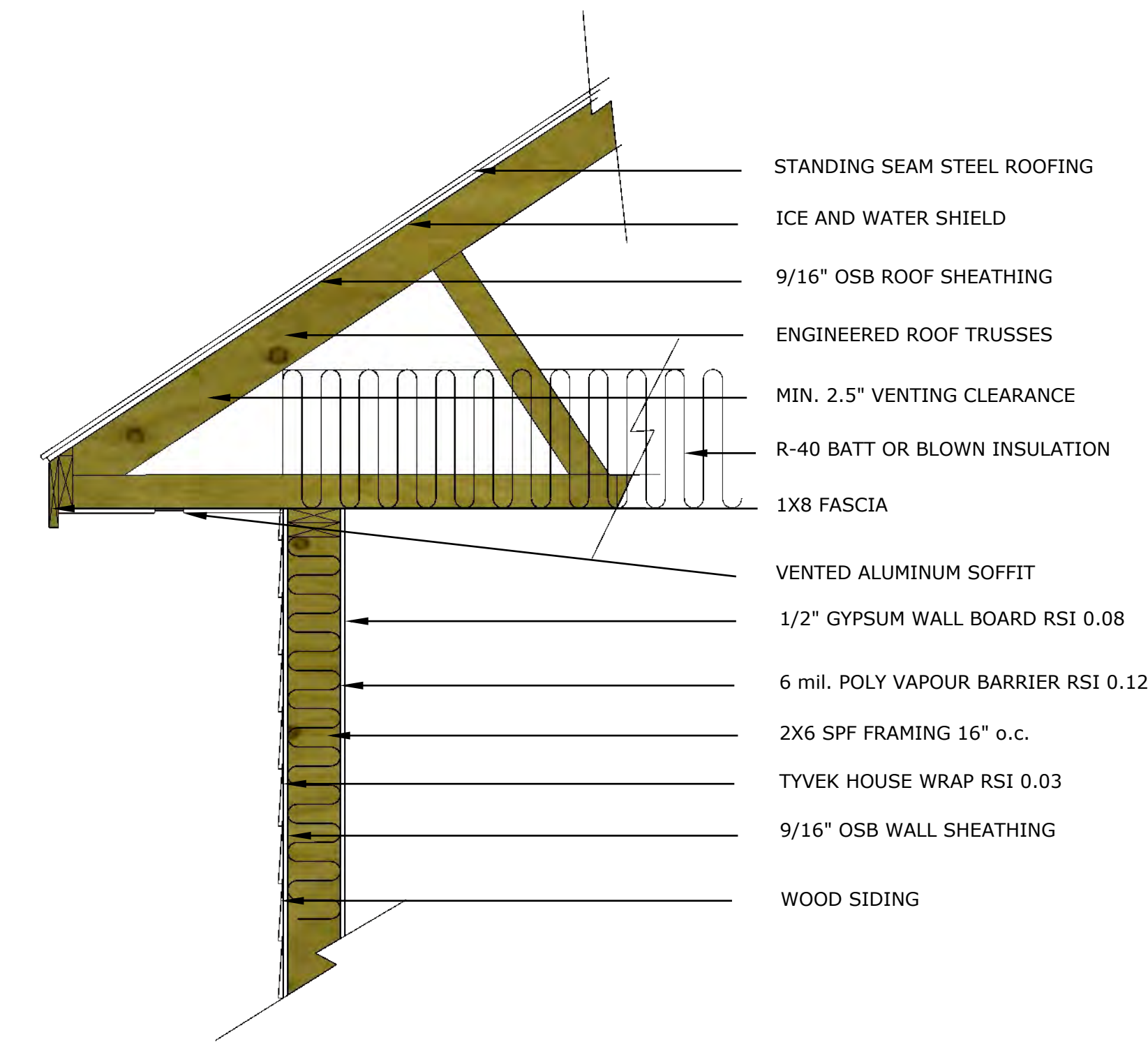
BENT 2



BENT 3







CROSS-SECTION

**PRESCRIPTIVE 9.36.2 TO 9.36.4 BCBC COMPLIANCE PATHWAY**  
**CLIMATE ZONE 4 COWICHAN VALLEY**

- PROPOSED MECHANICALS:**
- GAS FIRED FORCED AIR FURNACE
  - ELECTRIC FIRED DOMESTIC HOT WATER TANK
  - VENTILATION: CONTINUOUS OPERATION PRINCIPAL EXHAUST FAN IN LAUNDRY ROOM
- PRICIPAL EXHAUST FAN:**
- PRINCIPAL CONTINUOUS RUNNING EXHAUST FAN MINIMUM AIR FLOW RATE = 28 L/s AT 50 PASCALS AS PER TABLE 9.32.3.5 BCBC
  - NOT TO EXCEED 1.0 SONE SOUND RATING
  - CONTROLLED BY DEDICATED SWITCH CLEARLY MARKED "PRINCIPAL EXHAUST FAN" ACCESSIBLE FOR SERVICING
  - FORCED AIR FURNACE FAN MUST RUN CONTINUOUSLY

**NOTES PERTAINING TO LEAKAGE PATHS IN**  
**PROBLEMATIC AIR BARRIERS AS PER 9.36.2.10**

**CANTILEVERED JOISTS**  
CANTILEVERED FLOORS AND FLOORS OVER UNHEATED SPACES MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS AND / OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIA

**RIM JOIST**  
ALL JOINTS IN THE RIM JOIST ASSEMBLY MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER SYSTEM

**INTERIOR WALL INTERFACE**  
INTERIOR WALLS THAT MEET EXTERIOR WALLS OR CEILINGS WITH AN INTERIOR PLANE OF AIR TIGHTNESS MUST BE MADE AIR TIGHT EITHER SEALING ALL JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL, OR MAINTAINING THE CONTINUITY OF THE AIR BARRIER SYSTEMS THROUGH THE INTERIOR WALL

**FOUNDATION TO SILL PLATE AND RIM JOISTS**  
ALL JOINTS AT THE TRANSITION BETWEEN THE FOUNDATION WALL AND THE ABOVE GRADE WALL MUST BE MADE AIR TIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE DSTRUCTURAL COMPONENTS, OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER

**WALL TO CEILING**  
ALL JOINTS IN THE TRANSITION BETWEEN THE ABOVE GRADE WALL AND CEILING MUST BE MADE AIR TIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS AND / OR COVERING THE STRUCTURAL COMPONENTS IN AN AIR BARRIER MATERIAL

**SKYLIGHTS**  
THE INTERFACE BETWEEN THE SKYLIGHT AND THE WALL ASSEMBLY MUST BE MADE AIR TIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE AIR BARRIER MATERIAL IN THE WALL AND SKYLIGHT

**WINDOW HEAD**  
THE INTERFACE BETWEEN THE WINDOW HEAD AND THE WALL ASSEMBLY MUST BE MADE AIR TIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE AIR BARRIER MATERIAL IN THE WALL AND WINDOW. THIS REQUIREMENT ALSO APPLIES TO DOORS

**WINDOW SILL**  
THE INTERFACE BETWEEN WINDOW SILL AND THE WALL ASSEMBLY MUST BE MADE AIR TIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE AIR BARRIER MATERIAL IN THE WALL AND WINDOW

**MECHANICAL FLUES AND CHIMNEYS**  
STEEL LINED CHIMNEYS THAT PENETRATE THE BUILDING ENVELOPE MUST BE MADE AIR TIGHT BY BLOCKING THE VOID BETWEEN REQUIRED CLEARANCES FOR METAL CHIMNEYS AND SURROUNDING CONSTRUCTION WITH SHEET METAL AND WITH A SEALANT DESIGNED FOR HIGN TEMPERATURE APPLICATIONS

**PLUMBING STACKS**  
PLUMBING VENT STACK PIPES THAT PENETRATE THE BUILDING ENVELOPE MUST BE MADE AIR TIGHT BY EITHER SEALING THE AIR BARRIER MATERIAL TO THE VENT STACK PIPE WITH A COMPATIBLE MATERIAL OR SHEATHING TAPE, OR INSTALLING A RUBBER BASKET OR PREFABRICATED ROOF FLASHING AT THE PENETRATION OF THE PLANE OF AIT TIGHTNESS AND SEALING IT TO THE TOP PLATE

**WALL VENTED DUCTS**  
DUCT PENETRATIONS THROUGH THE BUILDING ENVELOP MUST BE MADE AIR TIGHT

**9.36 SPECIFIC REQUIREMENTS**

EFFECTIVE INSULATION OF WALLS, CEILINGS AND FLOORS MUST MEET THE REQUIREMENTS OF TABLE 9.36.2.6.a AND 9.36.2.6.b FOR THE CORRECT CLIMATE ZONE

THE THERMAL CHARACTERISTICS OF WINDOWS, DOORS AND SKYLIGHTS MUST MEET THE REQUIREMENTS OF TABLE 9.36.2.7.a,b AND c FOR THE CORRECT CLIMATE ZONE

EFFECTIVE INSULATION OF FOUNDATIONS MUST MEET THE REQUIREMENTS OF TABLE 9.36.2.8.a OR b FOR THE CORRECT CLIMATE ZONE

DUCTS LOCATED OUTSIDE THE THERMAL ENCLOSURE MUST BE SEALED AND INSULATED TO THE EXTERIOR WALL INSULATION REQUIREMENTS

DAMPERS ARE TO BE INSTALLED AT AIR INLETS AND EXHAUSTS WHERE REQUIRED

PIPING FOR HEATING OR COOLING SYSTEMS IS TO BE LOCATED WITHIN THE THERMAL ENCLOSURE OR TO BE FULLY INSULATED

HVAC EQUIPMENT IS TO BE LOCATED WITHIN THE THERMAL ENCLOSURE OR BE DESIGNED TO BE INSTALLED OUTSIDE THE THERMAL ENCLOSURE

INDOOR POOLS TO BE COVERED OR HAVE AN HRV / DEHUMIDIFIER

HVAC AND SWH EQUIPMENT MUST MEET MINIMUM PERFORMANCE REQUIREMENTS AS DEFINED IN TALBE 9.36.3.10 AND 9.36.4.2

SERVICE WATER HEATING PIPES ARE TO BE INSULATED AT THE INLET AND OUTLET OF STORAGE TANKS

WATER HEATER AND ALL AIR CONDITIONING EQUIPMENT MUST BE IN HEATED SPACE AND NOT ALLOWED IN GARAGE WITHOUT THERMAL ENCLOSURE

SERVICE WATER HEATERS ARE TO HAVE TEMPERATURE CONTROLS

TEMOERATURE CONTROLS ARE TO BE INSTALLED ON HEATING AND COOLING EQUIPMENT THE ACCURCY OF THE TEMPERATURE CONTROL MUST BE BETTER THAN PLUS OR MINUS 0.5 DEGREES CELCIUS

FENESTRATION (WINDOWS AND DOORS) ARE TO HAVE AN OVERALL THERMAL TRANSMITTANCE NOT GREATER THAN THE VALUES LISTED IN TABLE 9.36.2.7.a FOR THE APPLICABLE HEATING DEGREE DAY CATEGORY CLIMATE ZONE 4 MAXIMUM U - VALUE TO BE 1.80

**GENERAL NOTES**

- OWNER TO REVIEW DRAWINGS PRIOR TO CONSTRUCTION AND BE SATISFIED AS TO ALL ASPECTS OF THE DESIGN.
- ALL FRAMING LUMBER TO BE #2 OR BETTER HEM /FIR OR SPRUCE
- ALL LINTELS TO BE 2- 2x10 UNLESS OTHERWISE SPECIFIED
- ALL CONCRETE TO BE 3000 LB. @ 28 DAYS MIN.
- CONSTRUCTION TO CONFORM TO B.C. BUILDING CODE AND OR LOCAL MUNICIPAL CODES
- BUILDER TO CHECK AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION
- BUILDER TO CONSULT OWNER IF SPECS. ARE TO BE ALTERED FROM FINAL PLAN
- LOCAL SOIL CONDITIONS AND OR LOCAL PRACTICE MAY NECESSITATE A MORE STRINGENT FOOTING AND FOUNDATION WALL DESIGN. WHICH MAY REQUIRE CONFITMATION BY A CERTIFIED STRUCTURAL ENGINEER. THIS WILL BE THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR TO PROVIDE.
- ALL CONCENTRATED LOADS I.E. ENDS OF FLOOR BEAM, GIRDERS TO BE TRANSFERED THROUGH TO FOUNDATION INCL. SQUASH BLOCKS IN FLOOR DIAPHRAM
- LOCAL CODE INTERPRETATION OR LOCAL PRACTICE MAY NECESSITATE USING THE SERVICES ODF A CRETIFIED STRUCTURAL ENGINEER TO REVIEW THE DRAWINGS ANS MODIFY THE SPECIFICATIONS STATED ON THE DRAWING TO MEET THE CRITERIA OF THE ENGINEER. THIS WILL BE THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR TO PROVIDE.
- ALL STRUCTURALCOMPONENTS FALLING WITHIN PART 4 OF THE B.C. BUILDING CODE MUST BE SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE PLAN REVIEW AND PROJECT FIELD REVIEWS, AND BE ACCOMPANIED BY A SCHEDULE B-1 FORM AT THE TIME OF PERMIT APPLICATION ANS SCHEDULE C FORM PRIOR TO FRAMING INSPECTION.
- VENTILATION REQUIREMENTS ARE TO CONFORM TO LOCAL CODES AND BE DETERMINED BY A HEATING AND VENTILATION CONSULTANT. SOME DISTRICTS REQUIRE A "VENT LETTER" BE SUPPLIED PRIOR TO ISSUING A BUILDING PERMIT. IT IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR TO OBTAIN THIS LETTER IF REQUESTED.
- ALL ENGINEERED COMPONENTS TO BE INSTALLED TO THE MANUFACTURE'S SPECIFICATIONS.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS
- BUILDER MUST VERIFY ALL DIMENSIONS, INFORMATION, AND SPECIFICATIONS BEFORE STARING WORK AND NOTIFY THE DESIGNER OF ANY ERRORS.
- JOISTS ARE TO BE DOUBLED UNDER PARTITION WALLS.
- IF APPLICABLE, HOUSE DESIGN TO BE APPROVED BY A BUILDING SCHEME ADVISOR PRIOR TO PERMIT APPLICATION.



#2-2204 South Island Highway

Campbell River, BC V9W 1R3

778-420-1105

Fort Babine Lodge

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| 1    |      |        |

Construction  
Details

A2.8

PO BOX 879-225  
Sus Ave  
Burns Lake, BC

Lake Babine First Nation





# Fort Babine Lodge

PO BOX 879-225  
Sus Ave  
Burns Lake, BC

Lake Babine First Nation

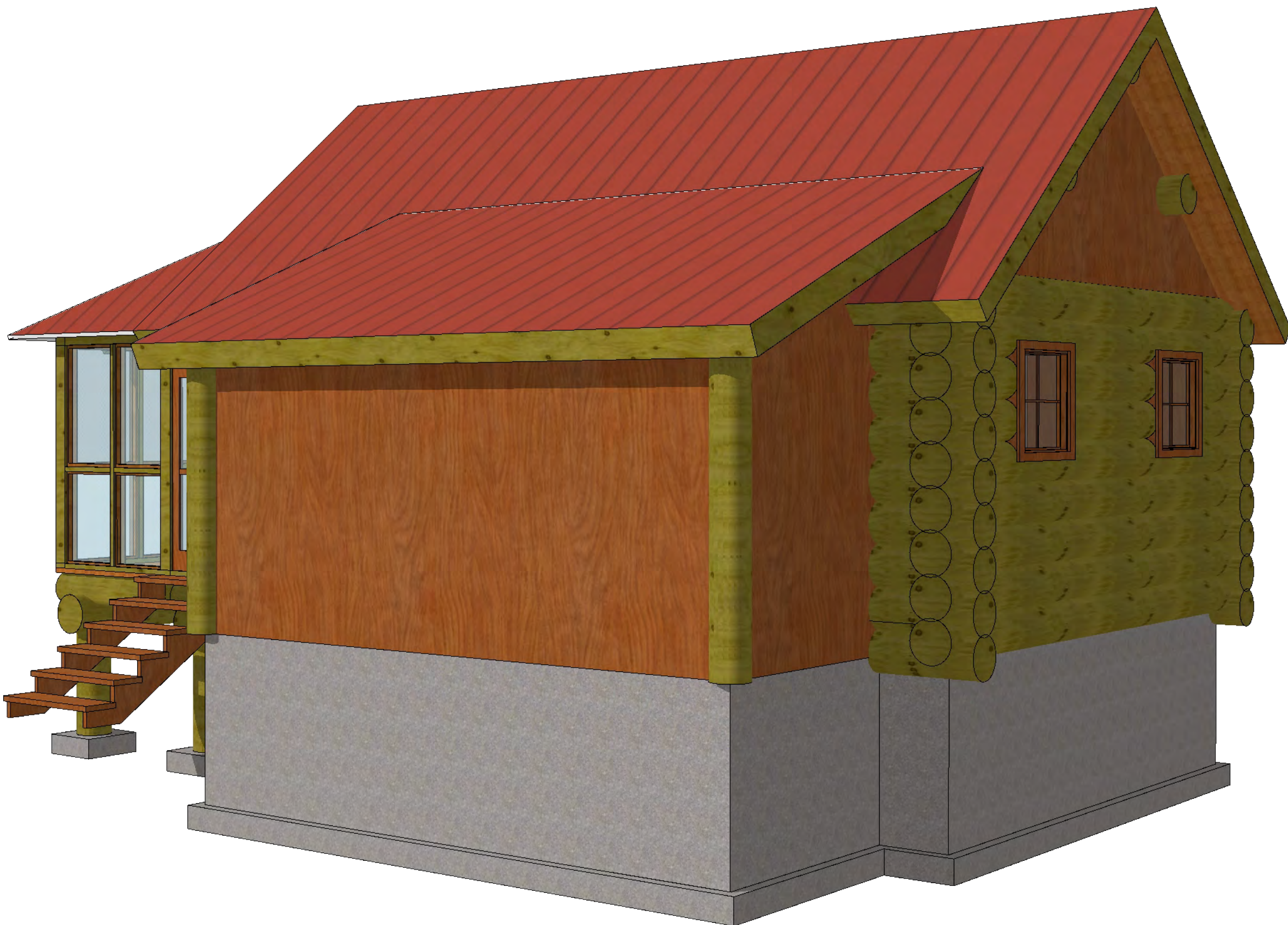
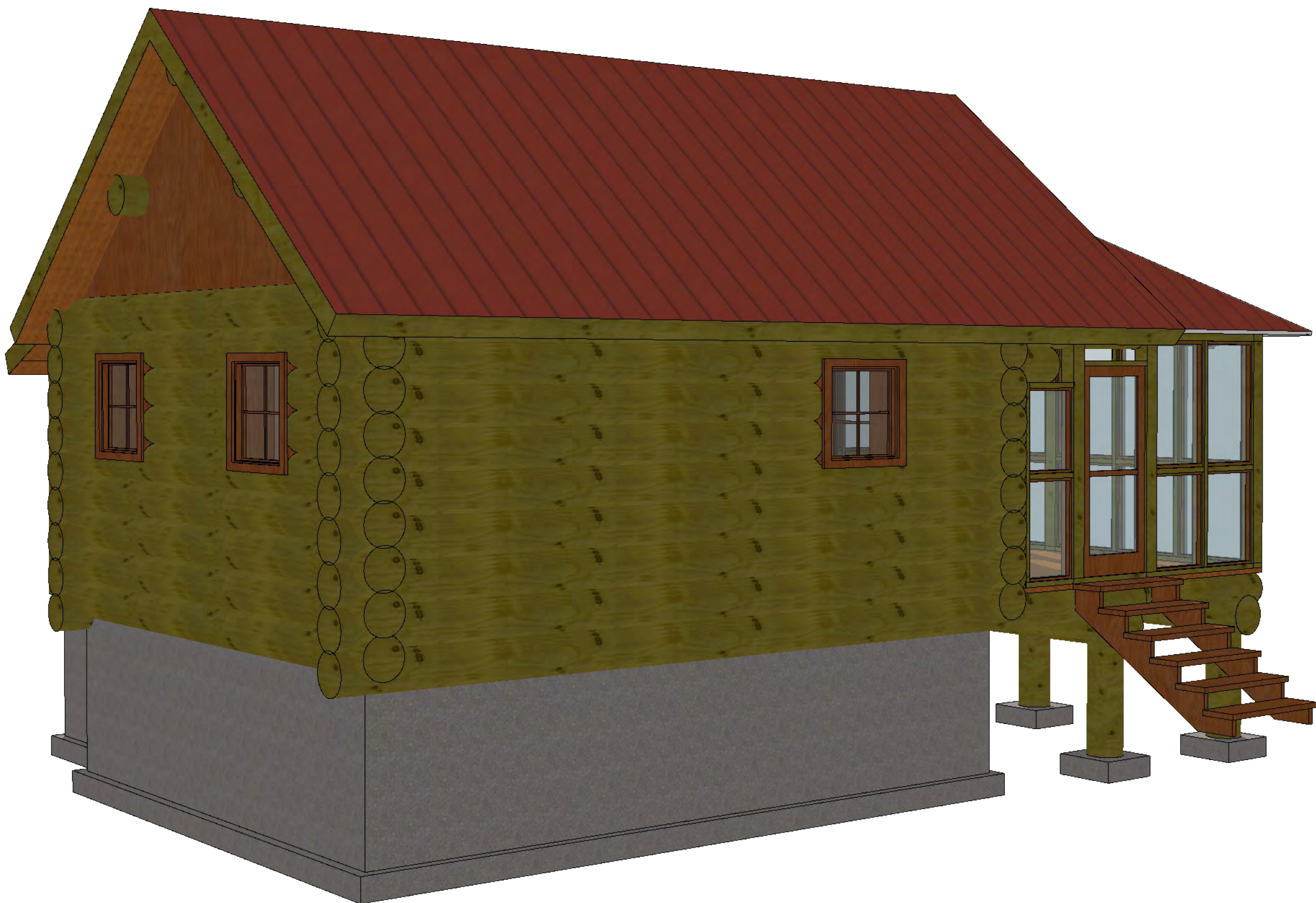
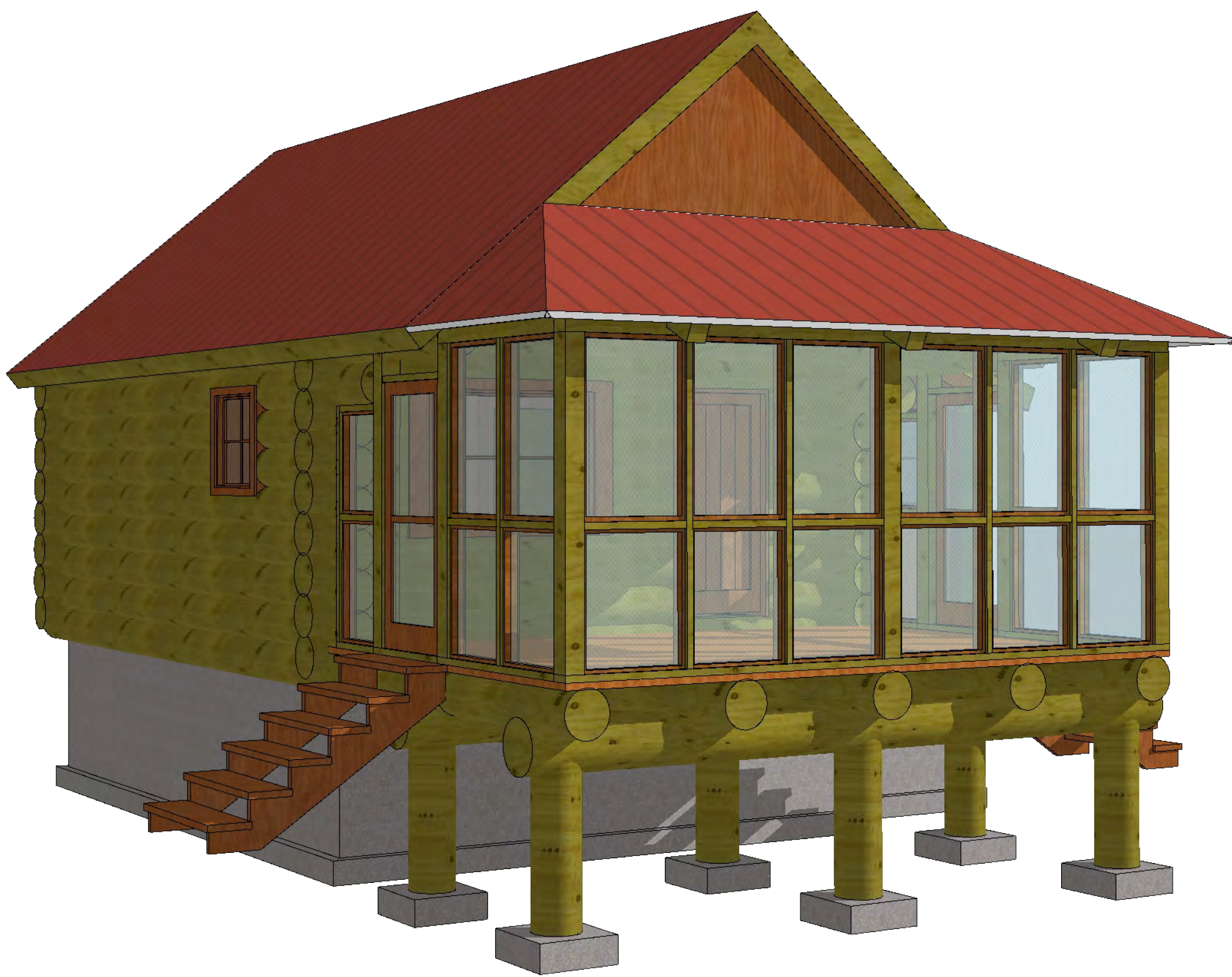
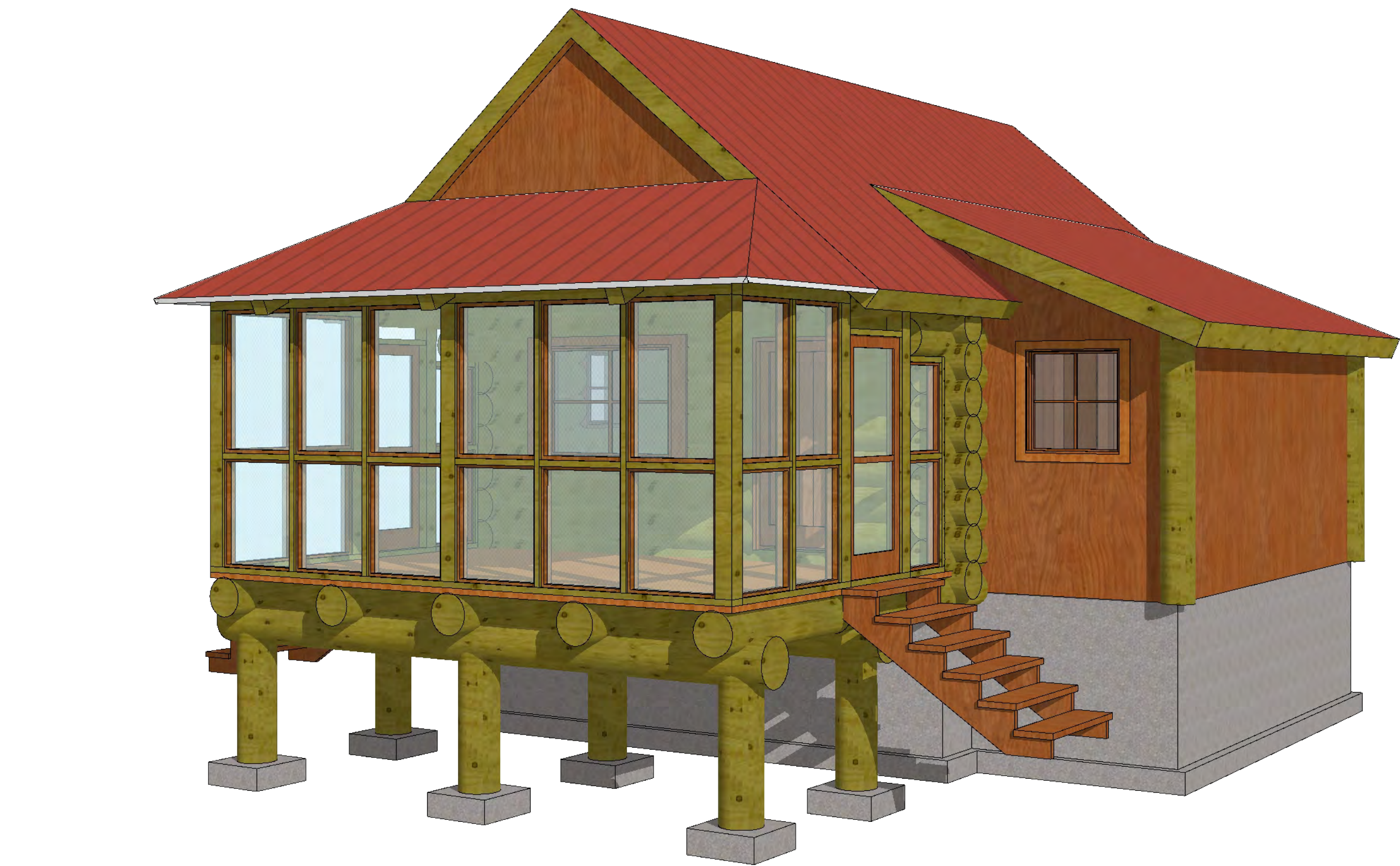
Document Date:  
February 26 2018

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| 1    |      |        |

Cabin  
Rendering

A2.9





# Fort Babine Lodge

PO BOX 879-225  
Sus Ave  
Burns Lake, BC

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Cabin  
Perspectives

## A2.10



Fort Babine Lodge

PO BOX 879-225  
Sus Ave  
Burns Lake, BC

Lake Babine First Nation

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rev. date remark

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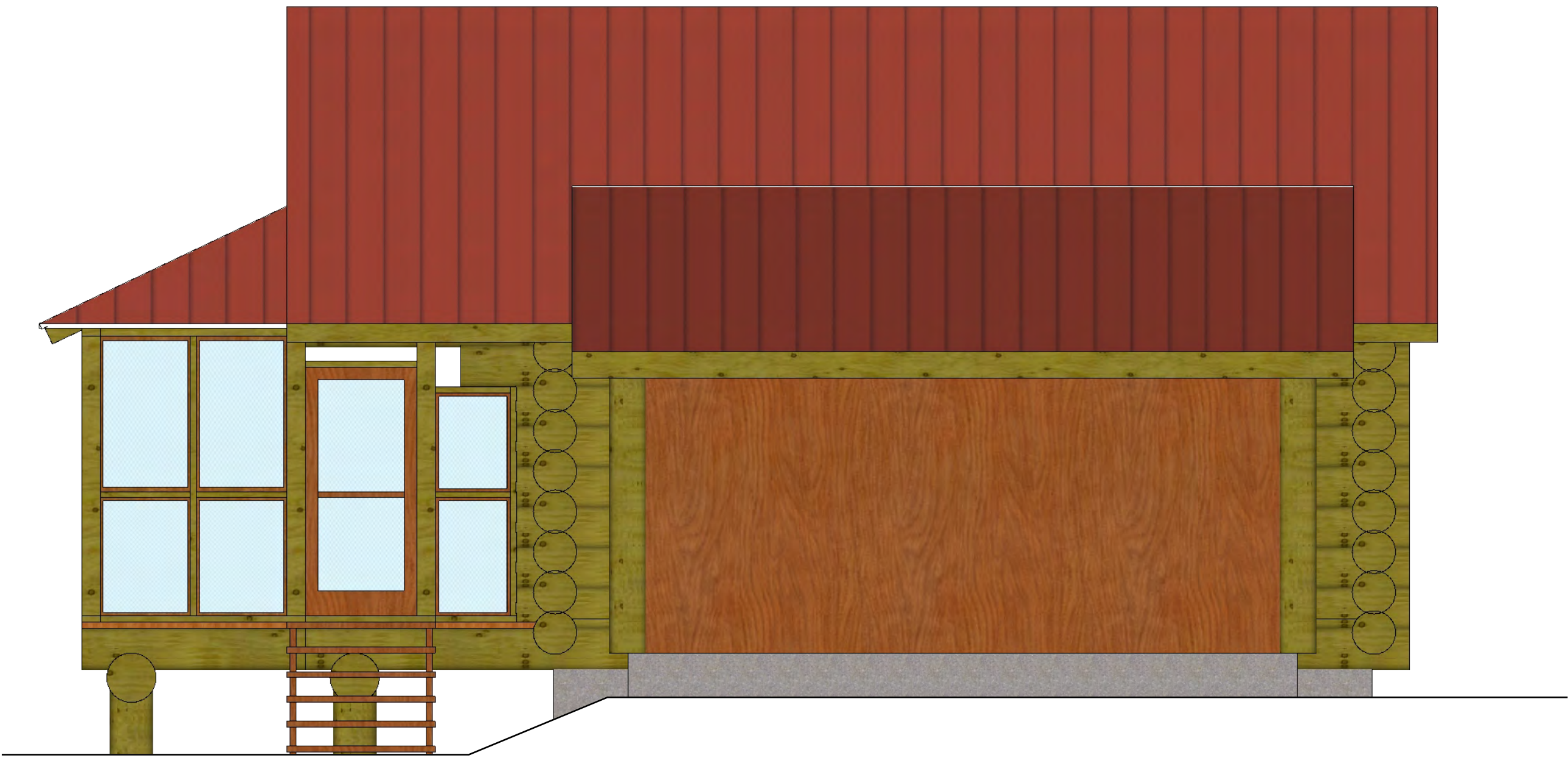
Cabin  
Elevations

A2.11



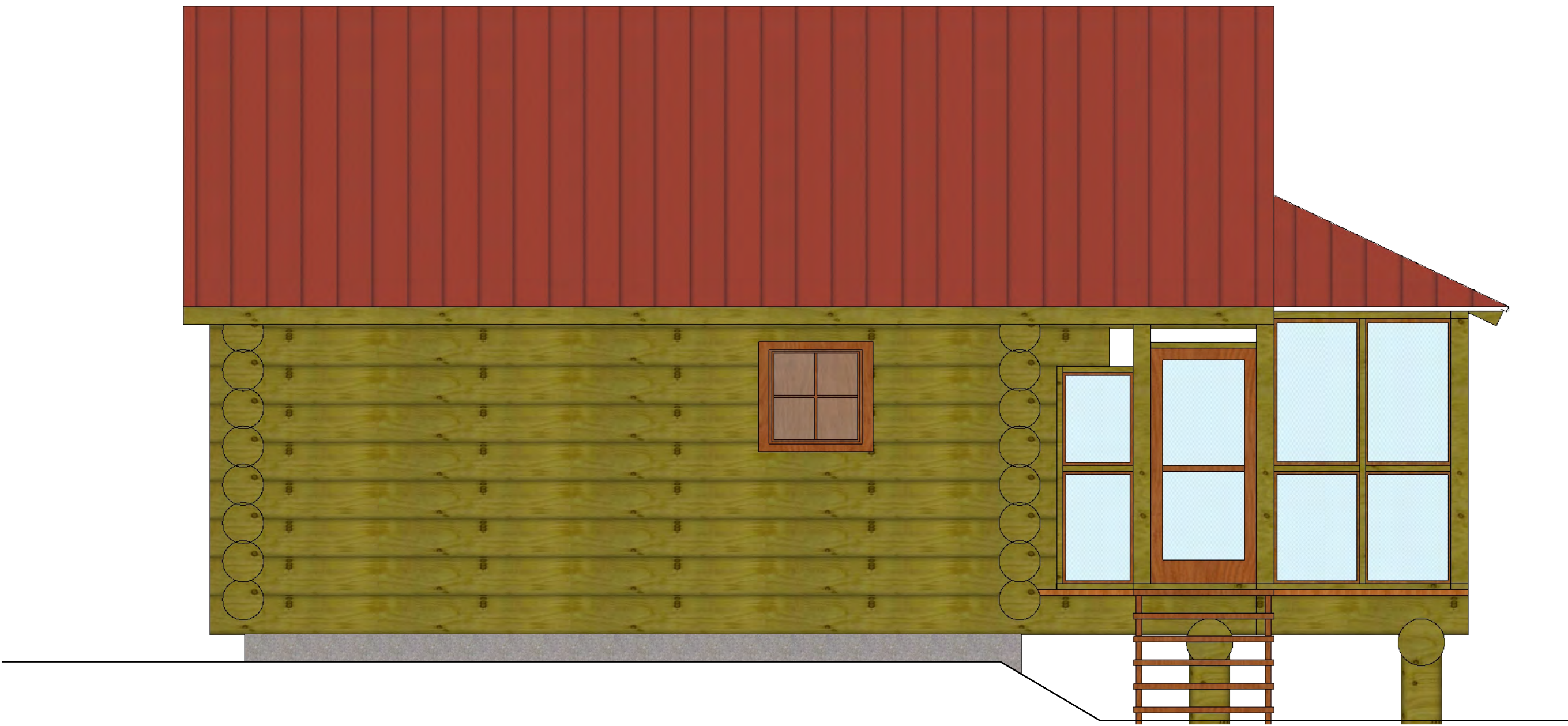
0 Back Elevation

A2 Scale: 1/4" = 1'-0"



0 Right Elevation

A2 Scale: 1/4" = 1'-0"



0 Left Elevation

A2 Scale: 1/4" = 1'-0"



0 Front Elevation

A2 Scale: 1/4" = 1'-0"



General Notes

Dimensions provided shall take preference over scale. Contractor to verify all dimensions of Builder Designer and Consultants drawings prior to work commencement. Any discrepancies are to be reported immediately. Any notes elsewhere on the plans that exceed the requirements stated in the general notes take precedence. Prior to any alterations or modifications of plans or details on site Contractor(s), tradesperson(s), or homeowner(s) must contact the Building Designer to confirm Building Code requirements and to maintain accuracy and completeness of the plans.

All references to the "British Columbia Building Code" (B.C.B.C.) are its current edition or published revision thereto, as approved by the ministerial order by the Province of British Columbia. Any reference to a dated edition or revision is to be assumed for the equivalent requirement in the most current edition. All work shall comply with the current edition of the "British Columbia Building Code", the rules and customs of the best trade practice to be executed by skilled tradespersons, well equipped and adequately supervised.

Surveyor and/or Contractor to confirm all aspects of siting and placement of structure on lot. Designer not responsible for placement. In the event that the proposed new or existing structure does not conform to the requirements of the B.C. Building Code an engineer(s) may be necessary and such services are for the owner's account.

All materials to be of best quality, complying with the applicable sections of the current C.S.A., C.G.S.B. AND B.C.B.C. standards. All materials shall be used strictly according to the manufacturers printed directions, where not inconsistent with this specification, no dilution permitted except where specified. Sds to comply with B.C.B.C. 9.23.13. and to be designed by structural engineer unless noted elsewhere. Structural Engineering and truss manufactures drawings to take precedence over structural design stated within.

ALL DIMENSIONS ARE TO FACE OF FRAMING OR CONCRETE, UNDIMENSIONED WINDOWS AND DOORS ARE LOCATED EITHER AT CENTER OF SPACE OR 3" OFF CORNER, 2-2x10 LINTELS UP TO 72", 3-2x10 OVER WITH 2x CRIPPLES

SITE PLAN NOT PROVIDED

BUILDER TO CONFIRM BUILDING HEIGHT

BUILDER TO CONFIRM PLACEMENT ON SITE WITHIN SETBACKS

VENTILATION TO BE DESIGNED BY HVAC IN ACCORDANCE TO CBC 2012 (9.32)

SEISMIC SCHEMATIC CBC 2012 A-9.23.13.1.(2)(b)(i)

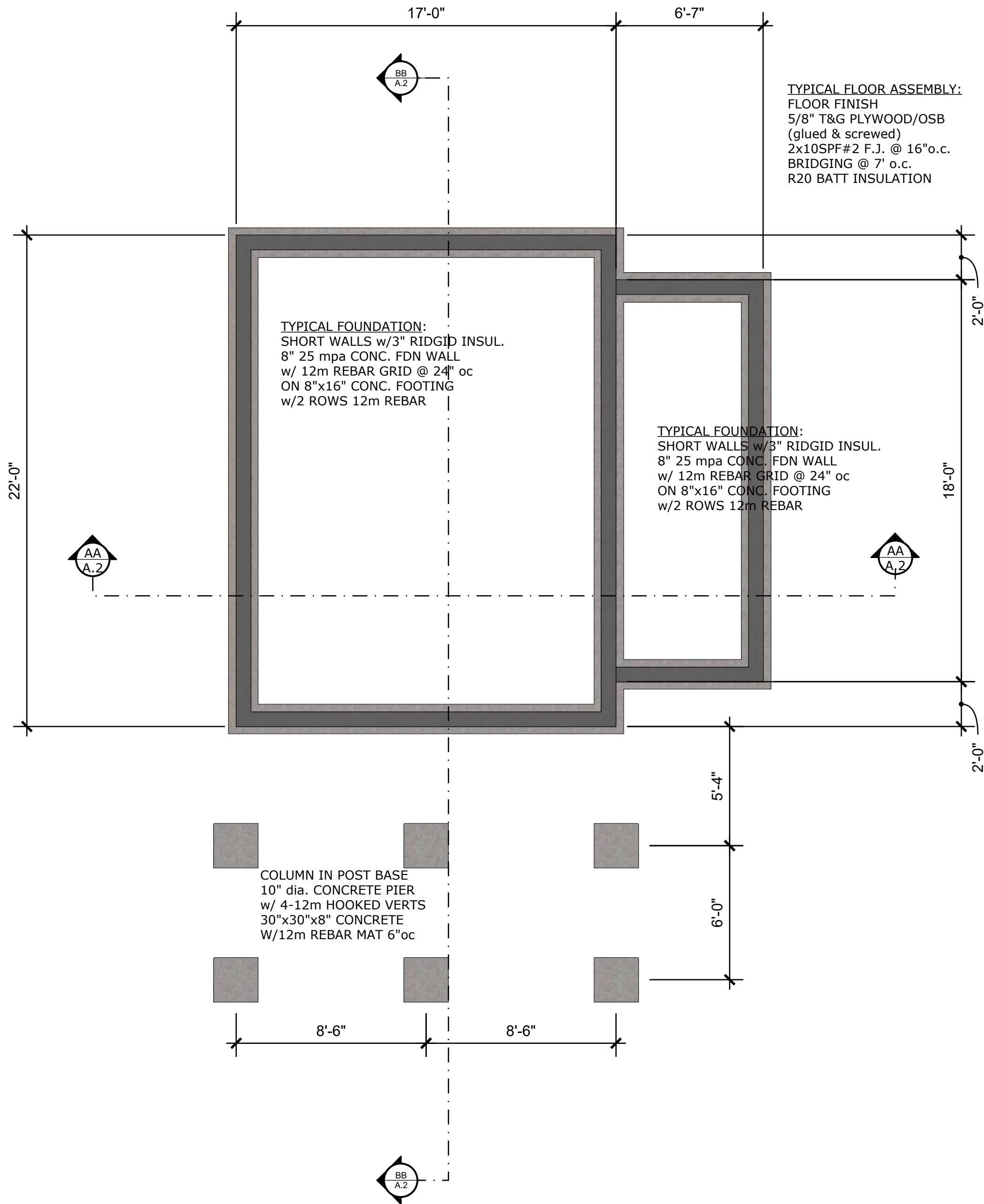
UNRESTRICTED CONSTRUCTION  
SEISMIC ACCELERATION Sa(0.2) 1.1  
BRACE WALL BANDS MAX 7.6 m o.c.



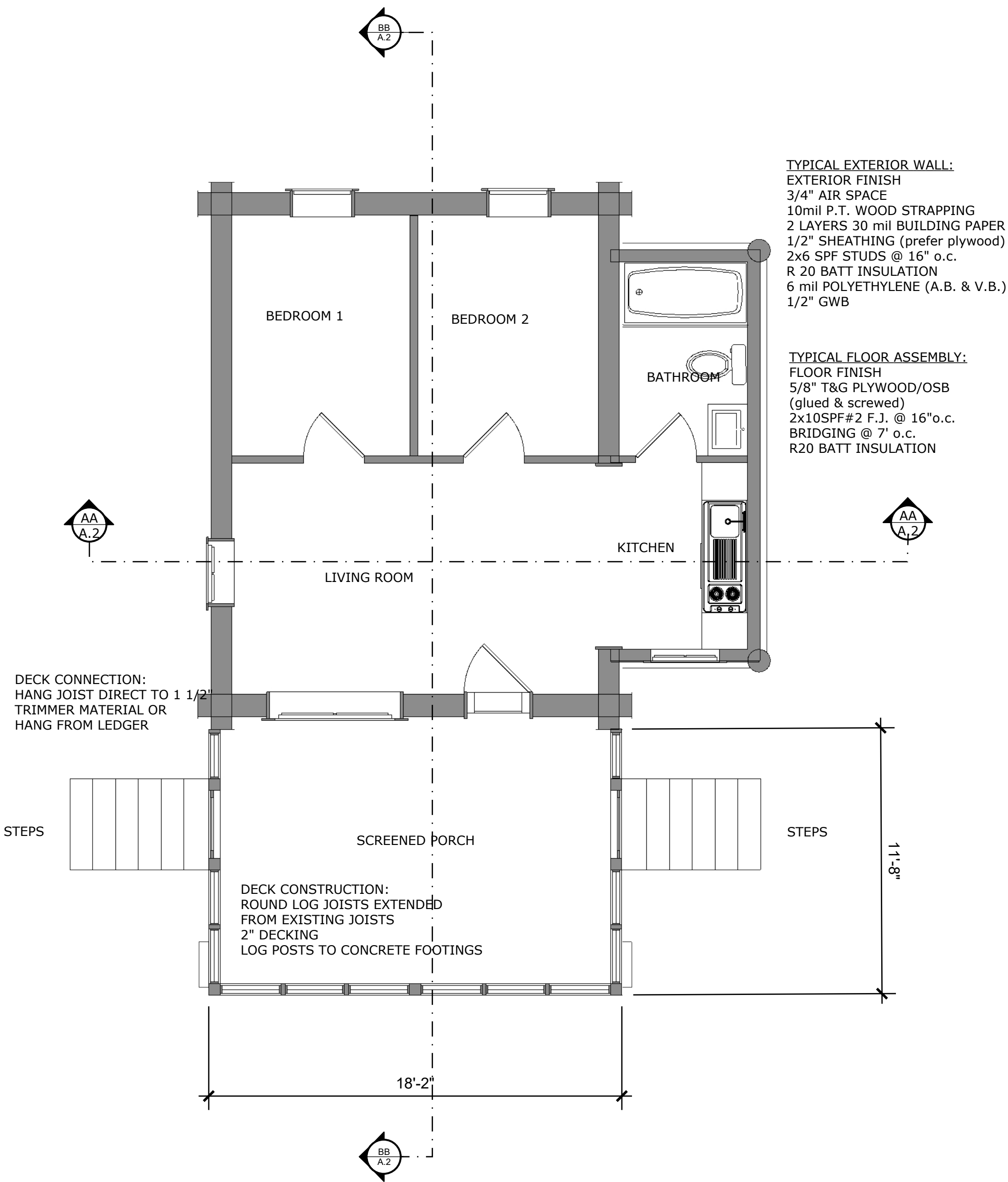
#2-2204 South Island Highway

Campbell River, BC V9W 1R3

778-420-1105



Foundation Plan  
Scale: 1/4" = 1'-0"



Floor Plan  
Scale: 1/4" = 1'-0"

Fort Babine Lodge

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1

Cabin  
Foundation and  
Floorplan

A2.12

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Lake Babine First Nation



Fort Babine Lodge

PO BOX 879-225  
Sus Ave  
Burns Lake, BC

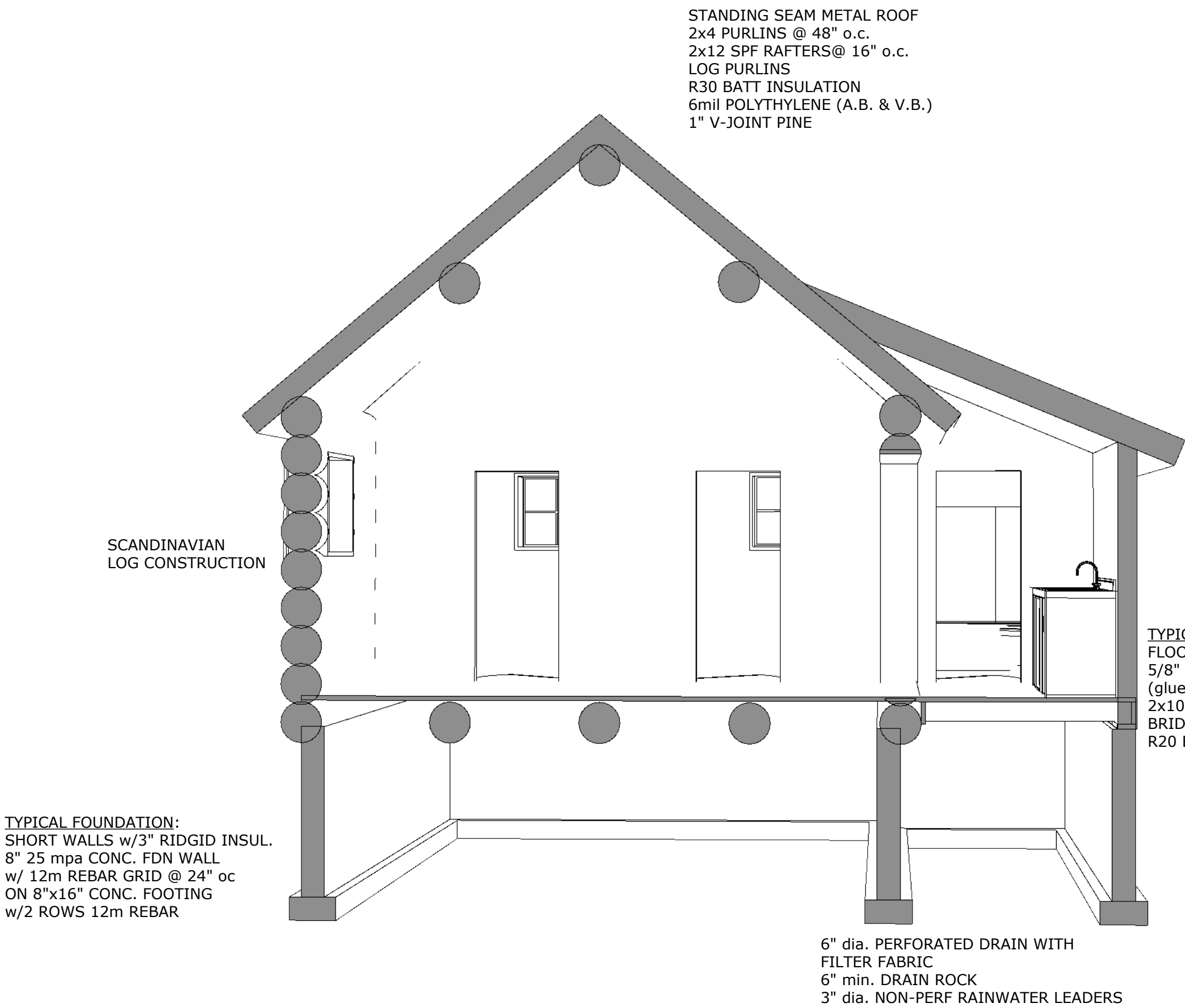
Lake Babine First Nation

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Cabin Sections

A2.13

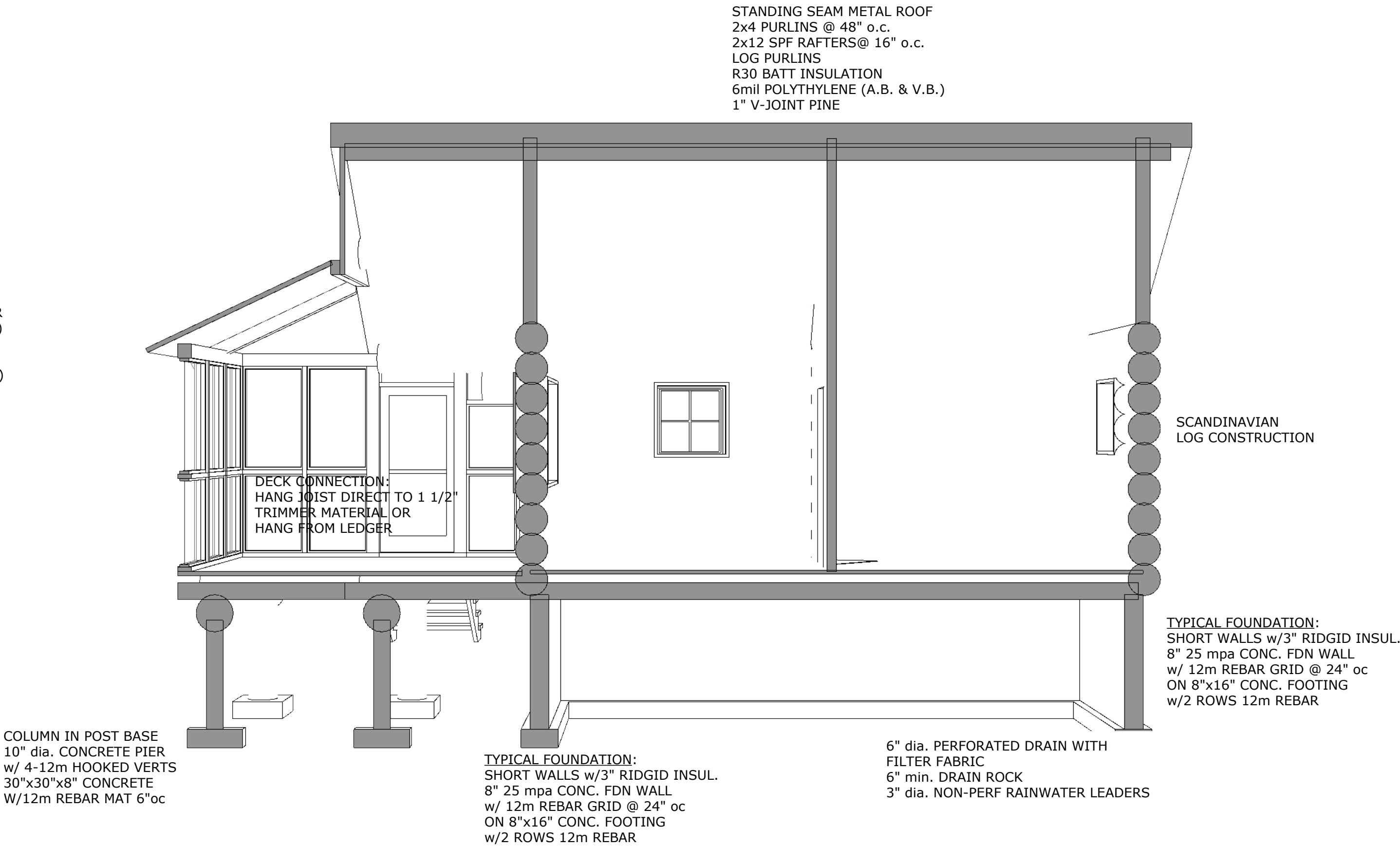


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Section AA

A2

Scale: 1/4" = 1'-0"



0

Section BB

A2

Scale: 1/4" = 1'-0"