

PROJECT:

INTEGRATED TRUSS

ONE BEDROOM

GALENA MODEL

PROJECT PARTICIPANTS:

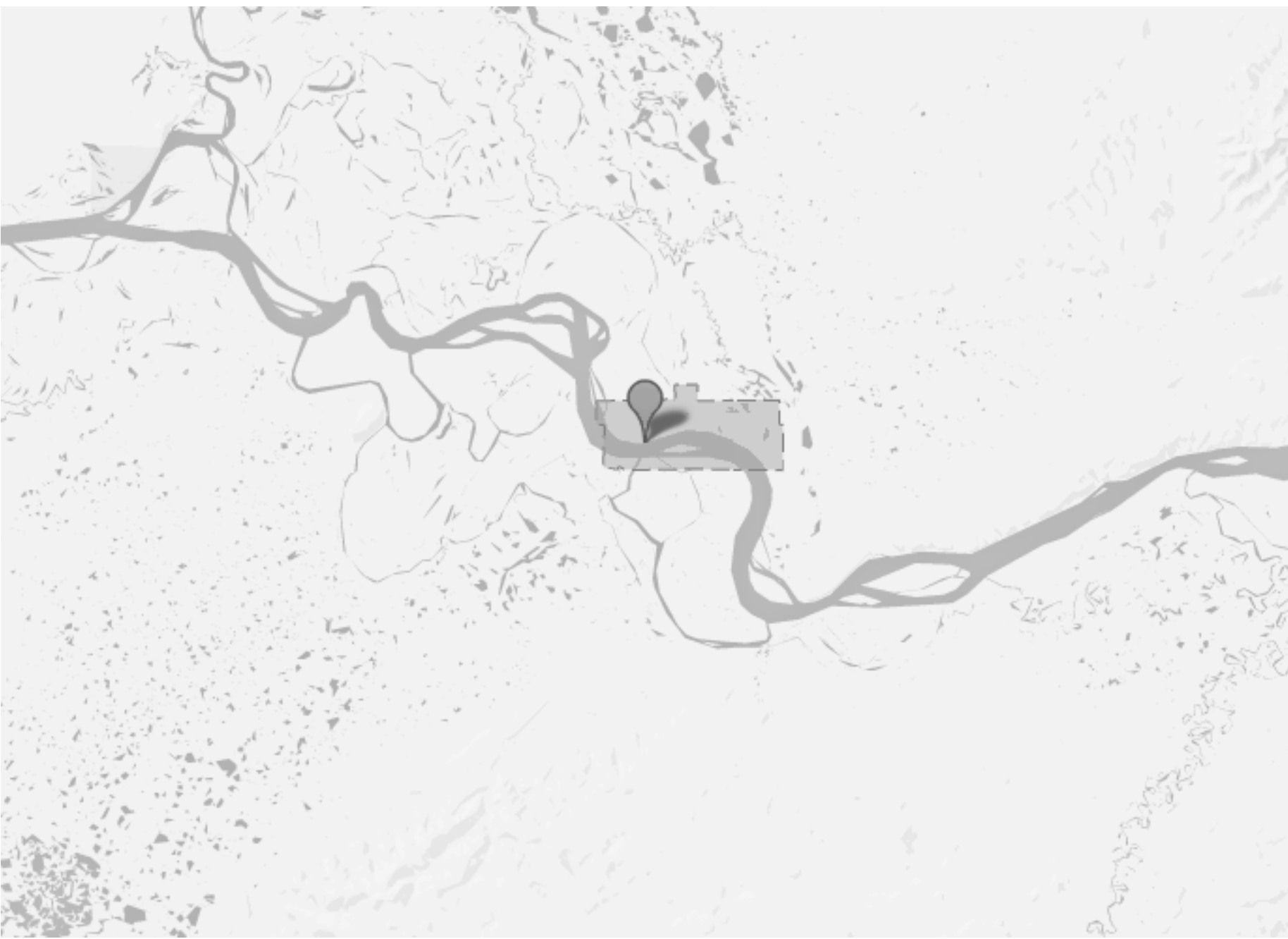


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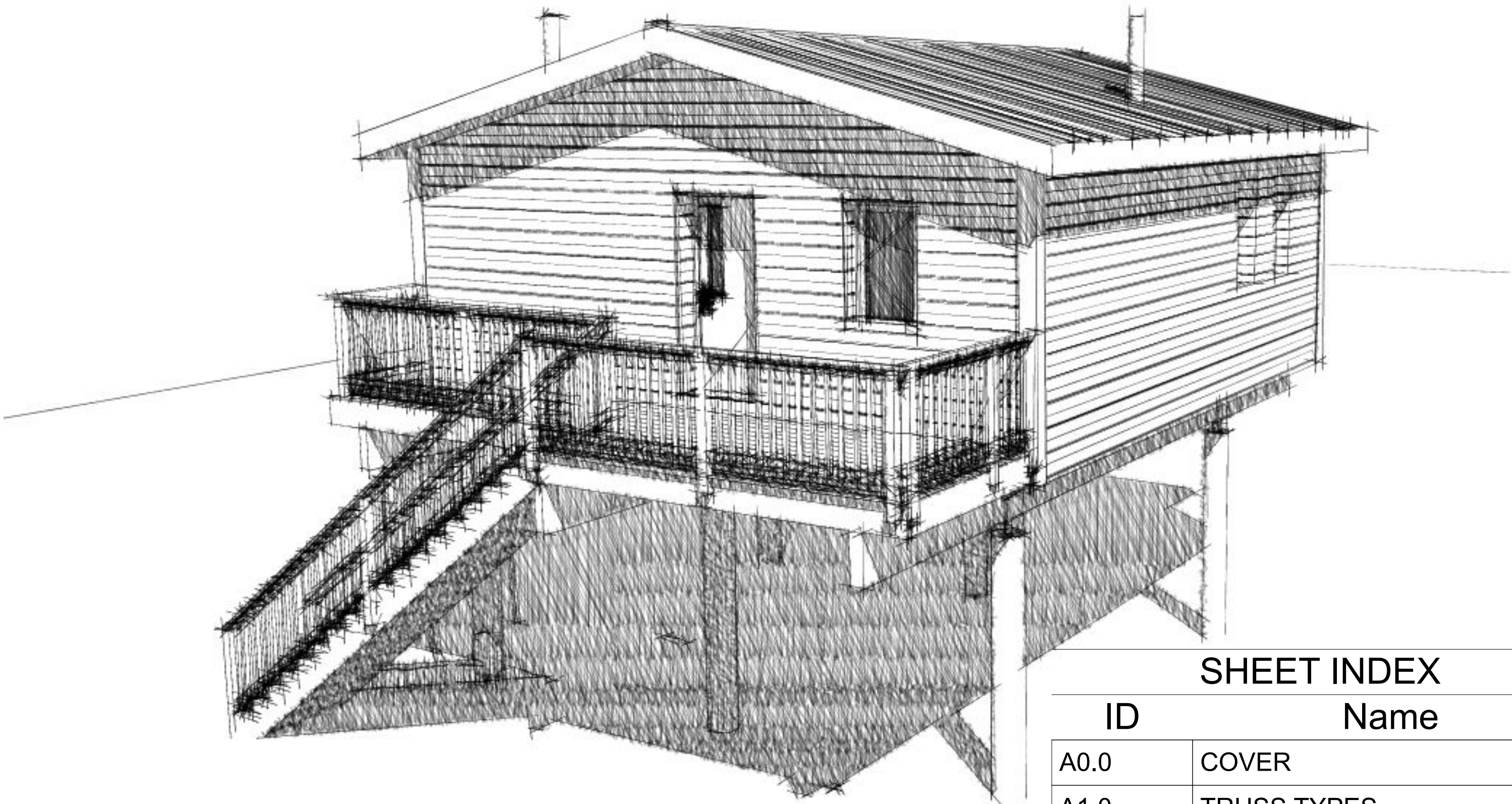
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PROJECT LOCATION



GALENA, ALASKA



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DESIGN DOCUMENTS

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PROJECT:

INTEGRATED TRUSS

ONE BEDROOM

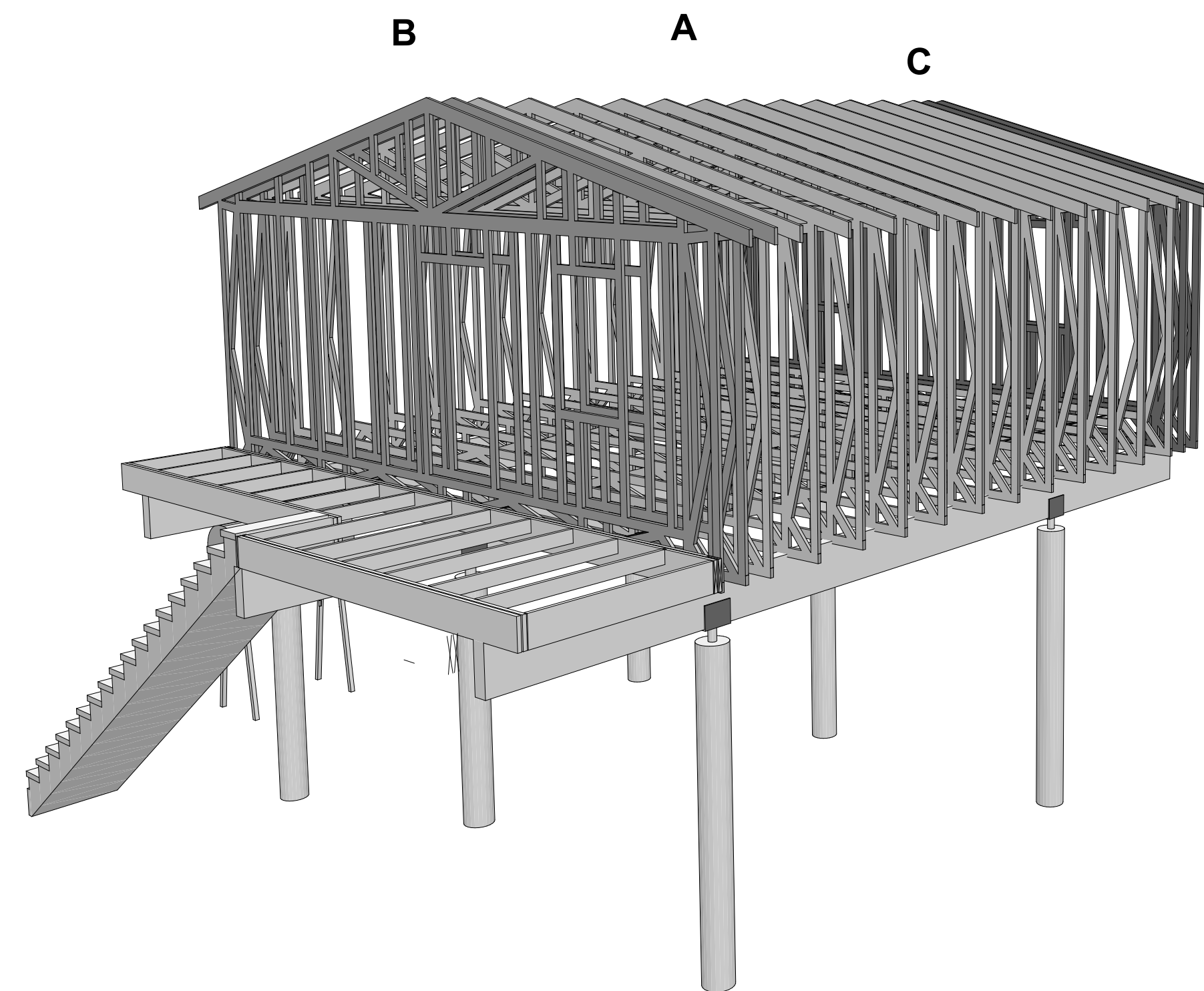
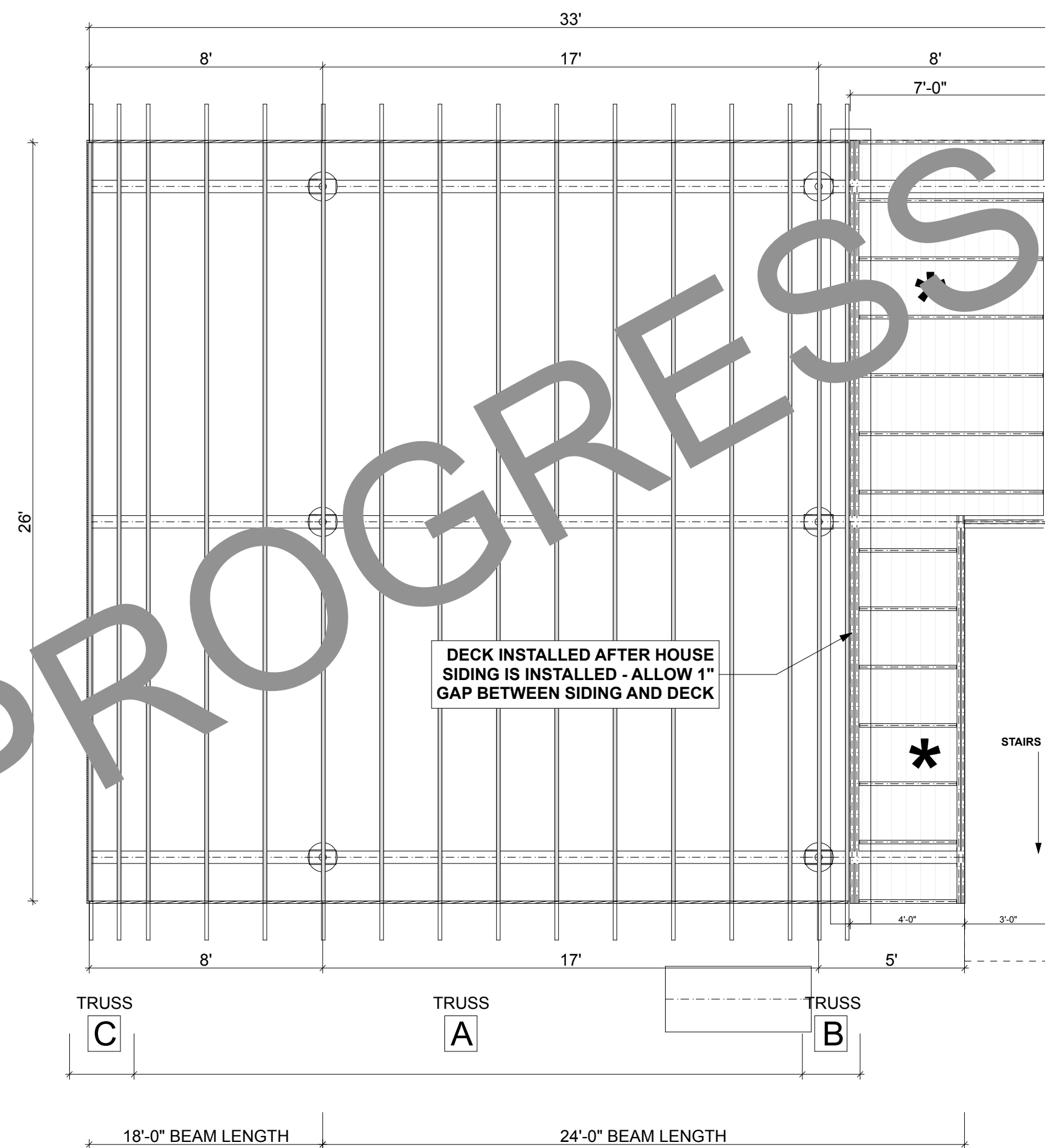
GALENA MODEL

Galena, Alaska

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08/12/2013

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**\* DECK FRAMED INDEPENDENTLY AND NOT ATTACHED TO HOUSE**



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## DESIGN DOCUMENTS

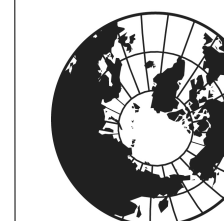
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ONE BEDROOM**  
GALENA MODEL

Galena, Alaska

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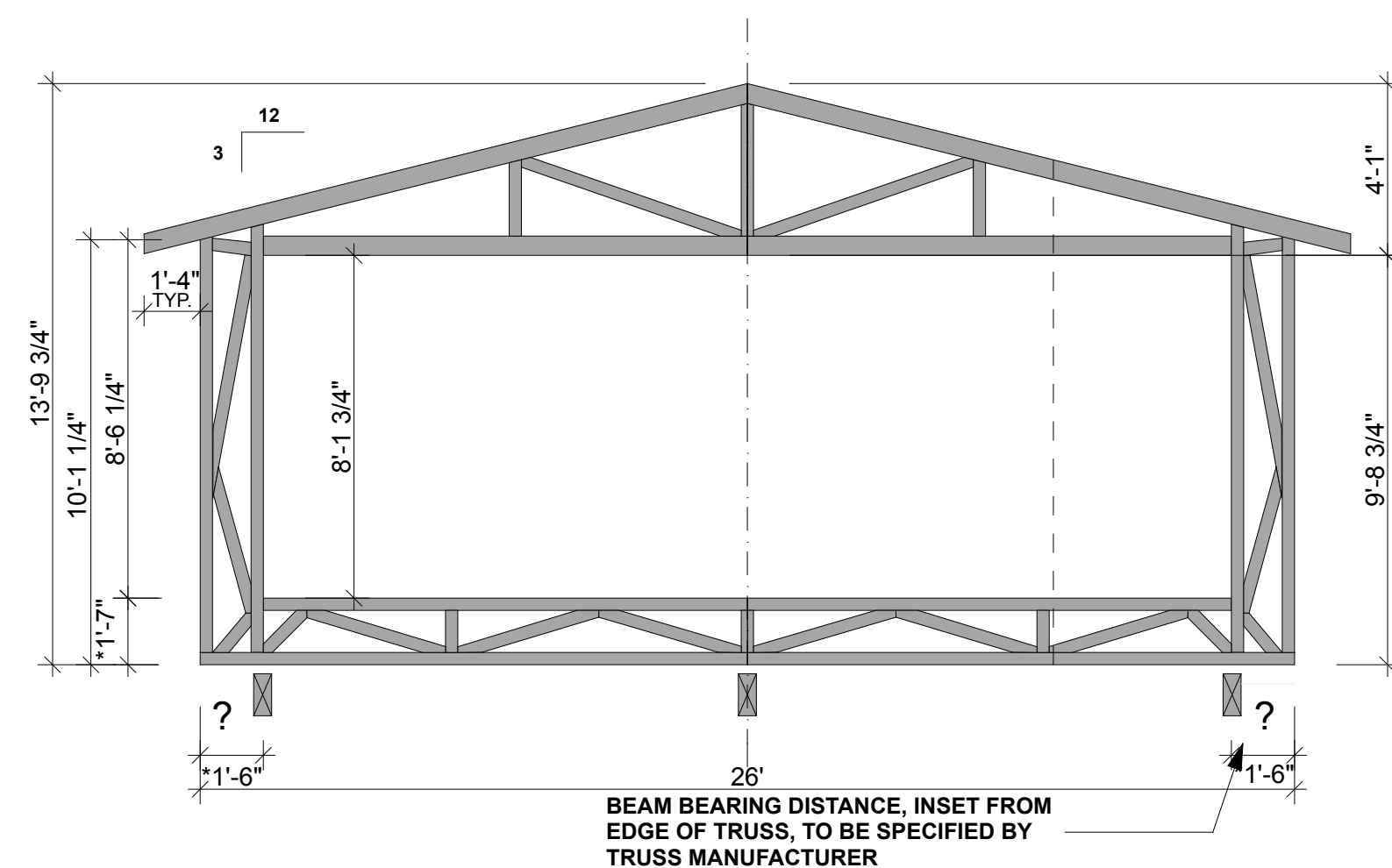
Design Development

## TRUSS TYPES

# A1.0

SHEET 2 OF total

1 TRUSS PROFILE LAYOUT  
A1.0



### 3 TRUSS PROFILE A

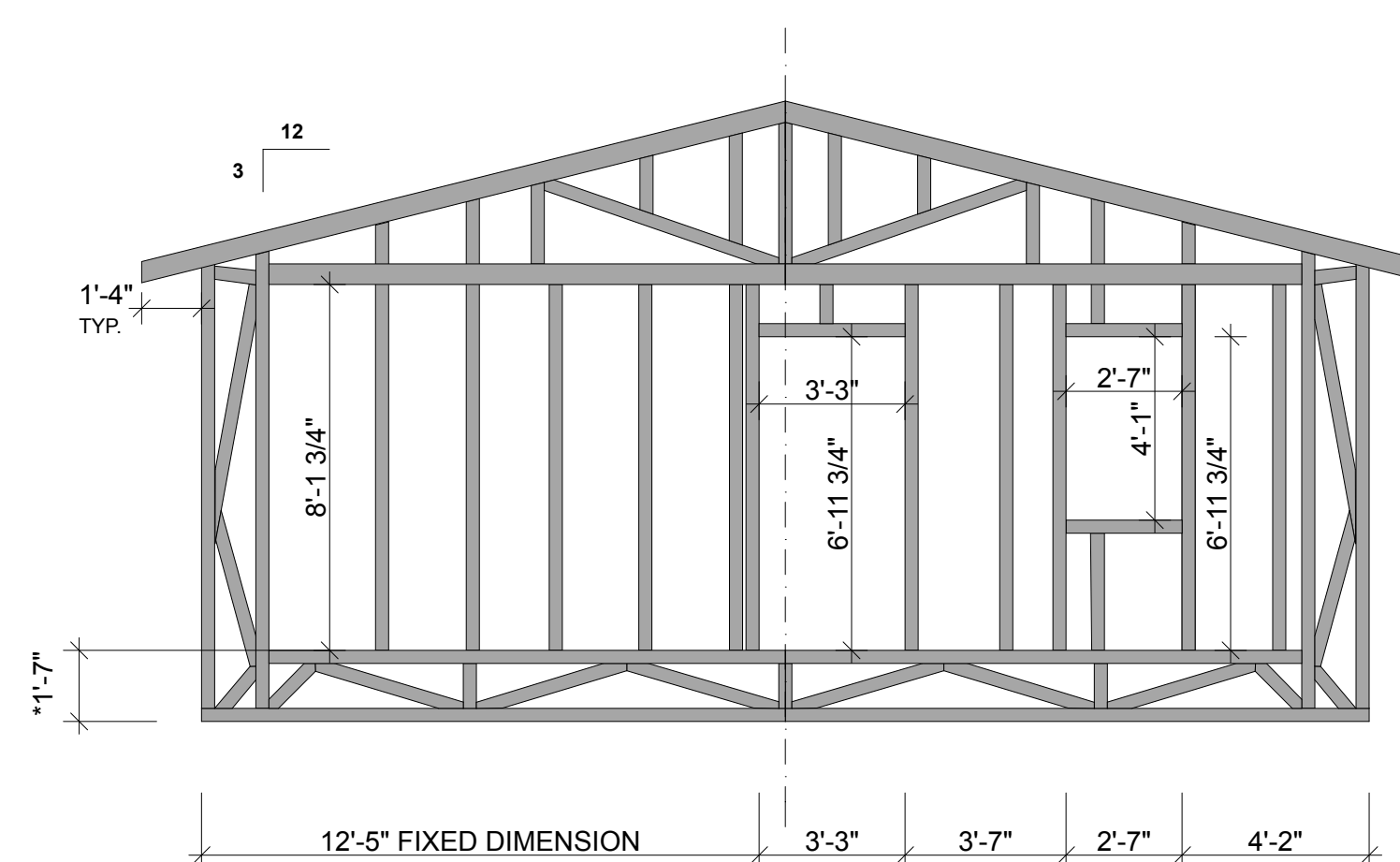
NOT TO SCALE

**\* THICKNESS OF WALL AND FLOOR CHORDS MAY VARY AS PER MANUFACTURER | VERIFY ALL DIMENSIONS WITH TRUSS MANUFACTURER PROFILE**

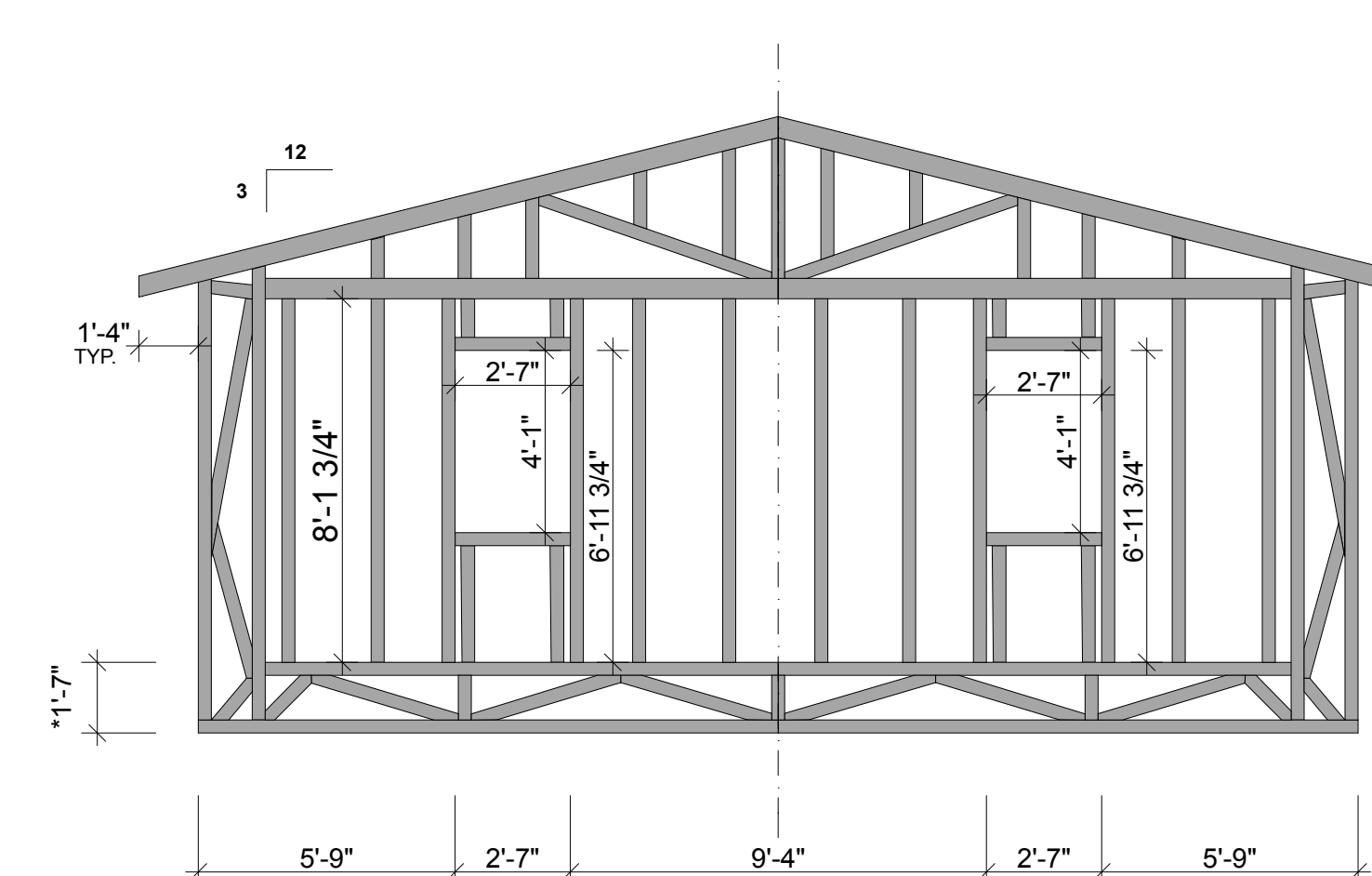
2  
A1.0

STRUCTURAL AXON

NOT TO SCALE

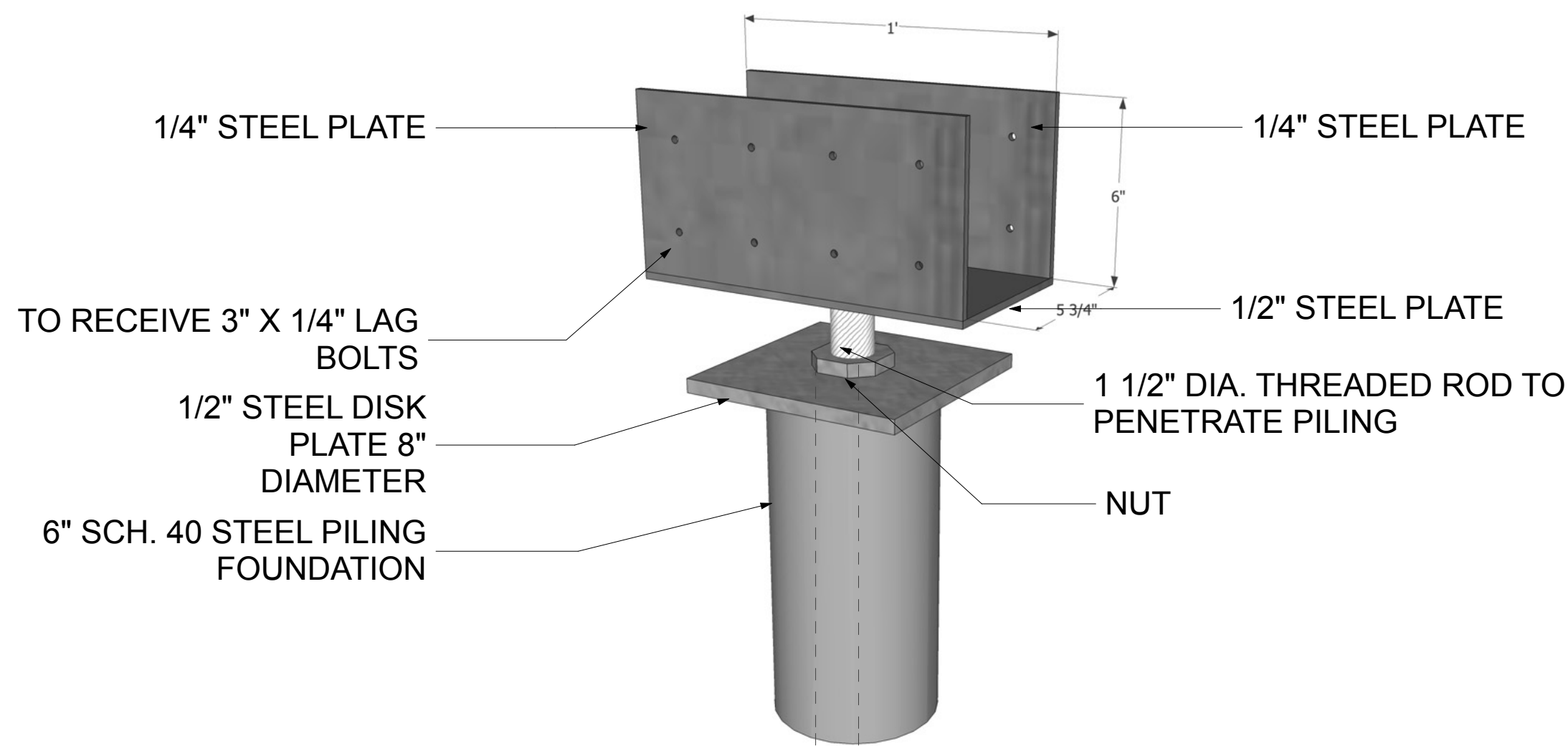


4 TRUSS PROFILE B  
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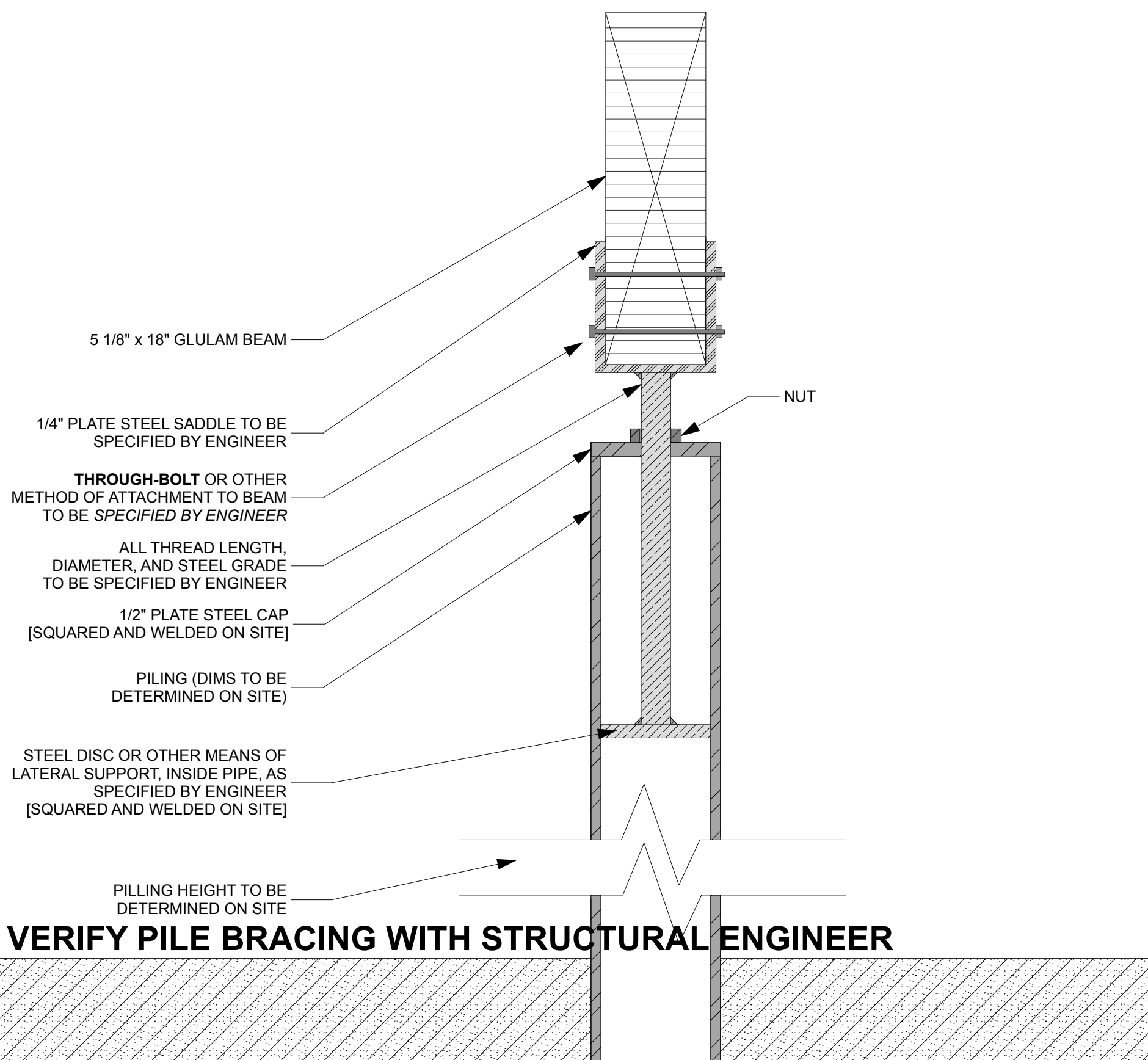
5 TRUSS PROFILE C  
NOT TO SCALE





\* VERIFY STRUCTURAL CAPACITY OF SADDLE BRACKET WITH ENGINEER

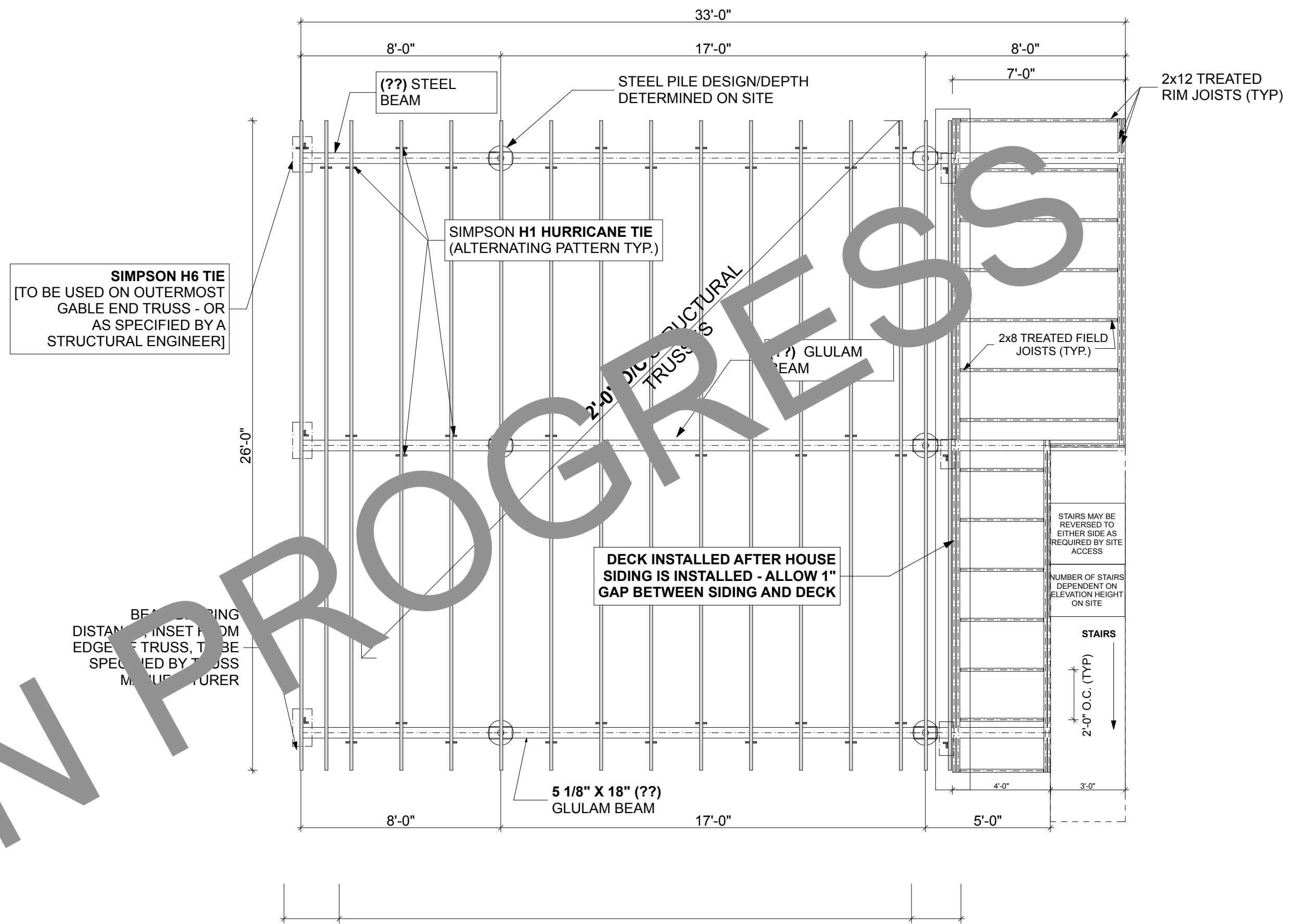
## 2 ADJUSTIBLE FOUNDATION SADDLE BRACKET DETAIL



\* VERIFY PILE BRACING WITH STRUCTURAL ENGINEER

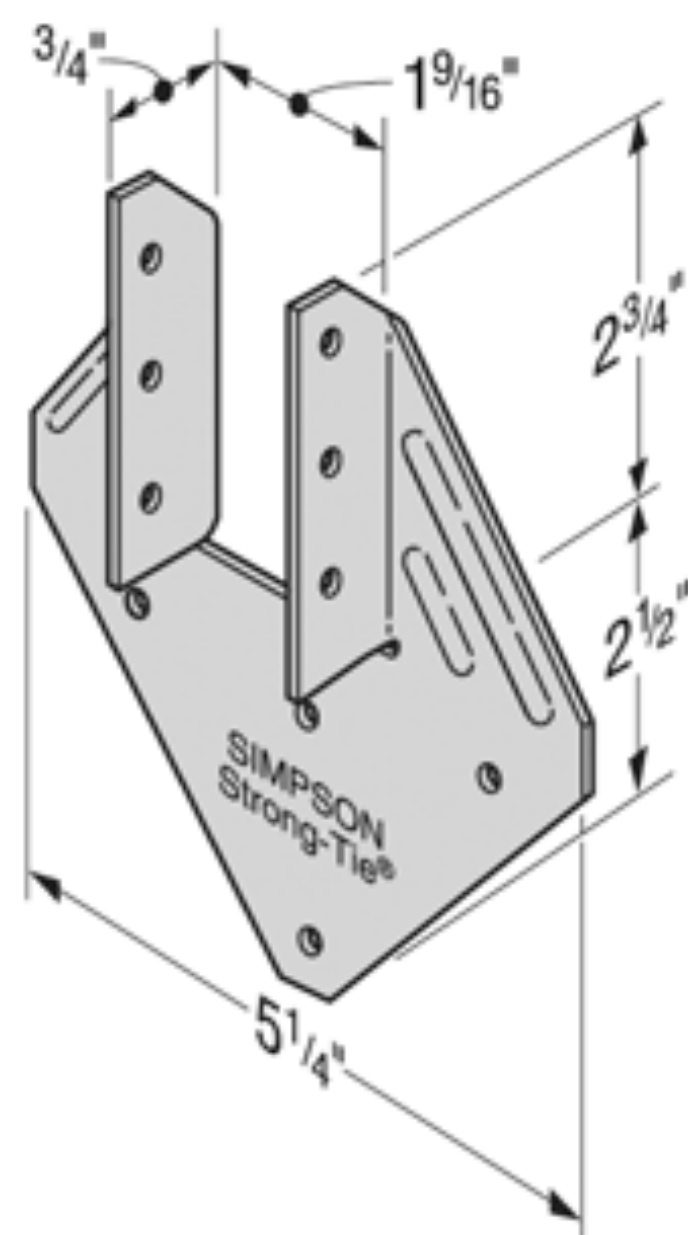
## 6 ADJUSTIBLE PILING BRACKET DETAIL

NOT TO SCALE



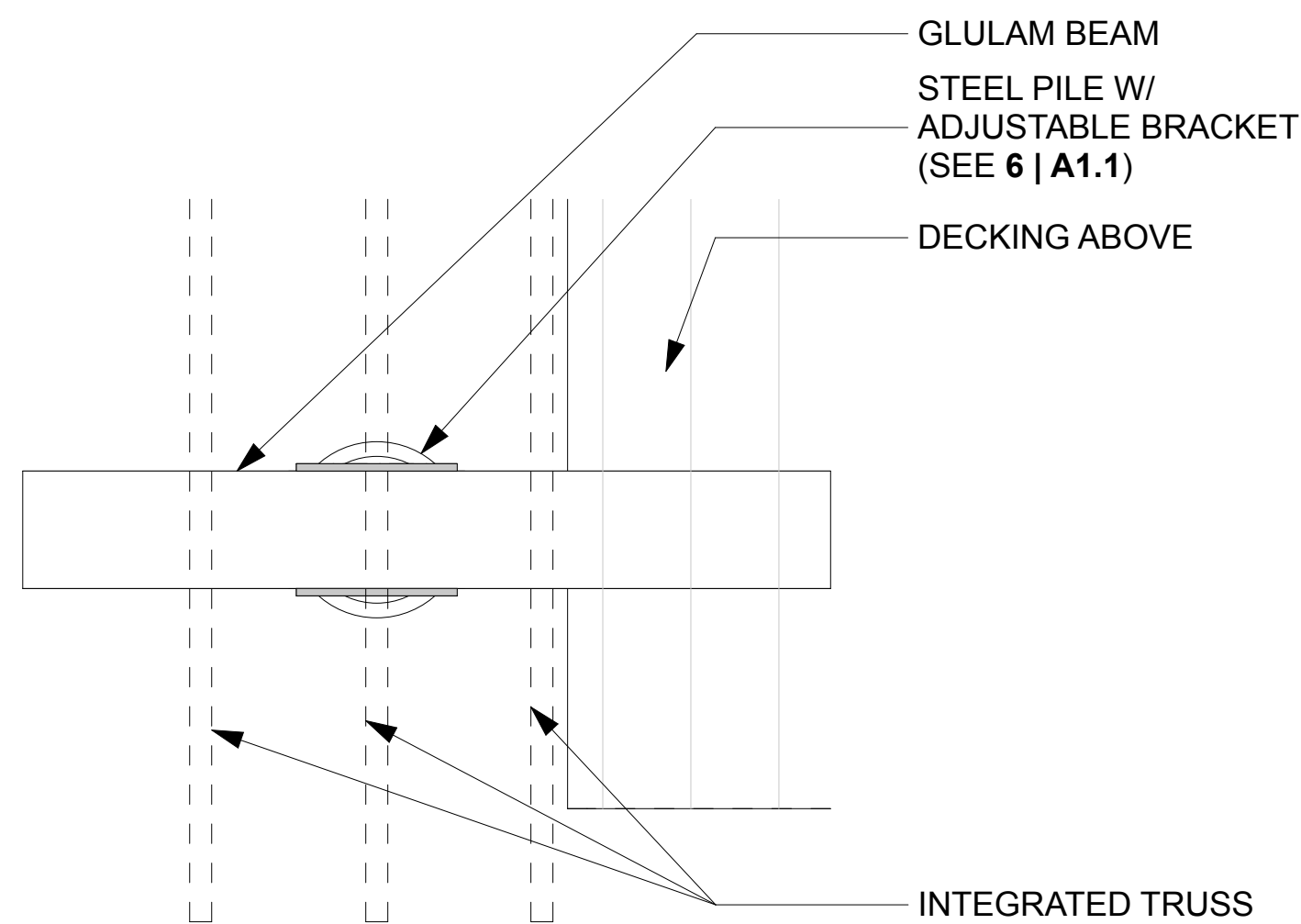
## 1 FOUNDATION LAYOUT

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



## 3 H1 SEISMIC & HURRICANE TIE

NOT TO SCALE



## 4 PILE DETAIL

SCALE: 1" = 1'-0"

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NOTES:  
ADJUSTABLE SADDLE BRACKET  
WELDED TO TOP OF PILE FOR  
CONNECTION WITH GLULAM  
BEAM

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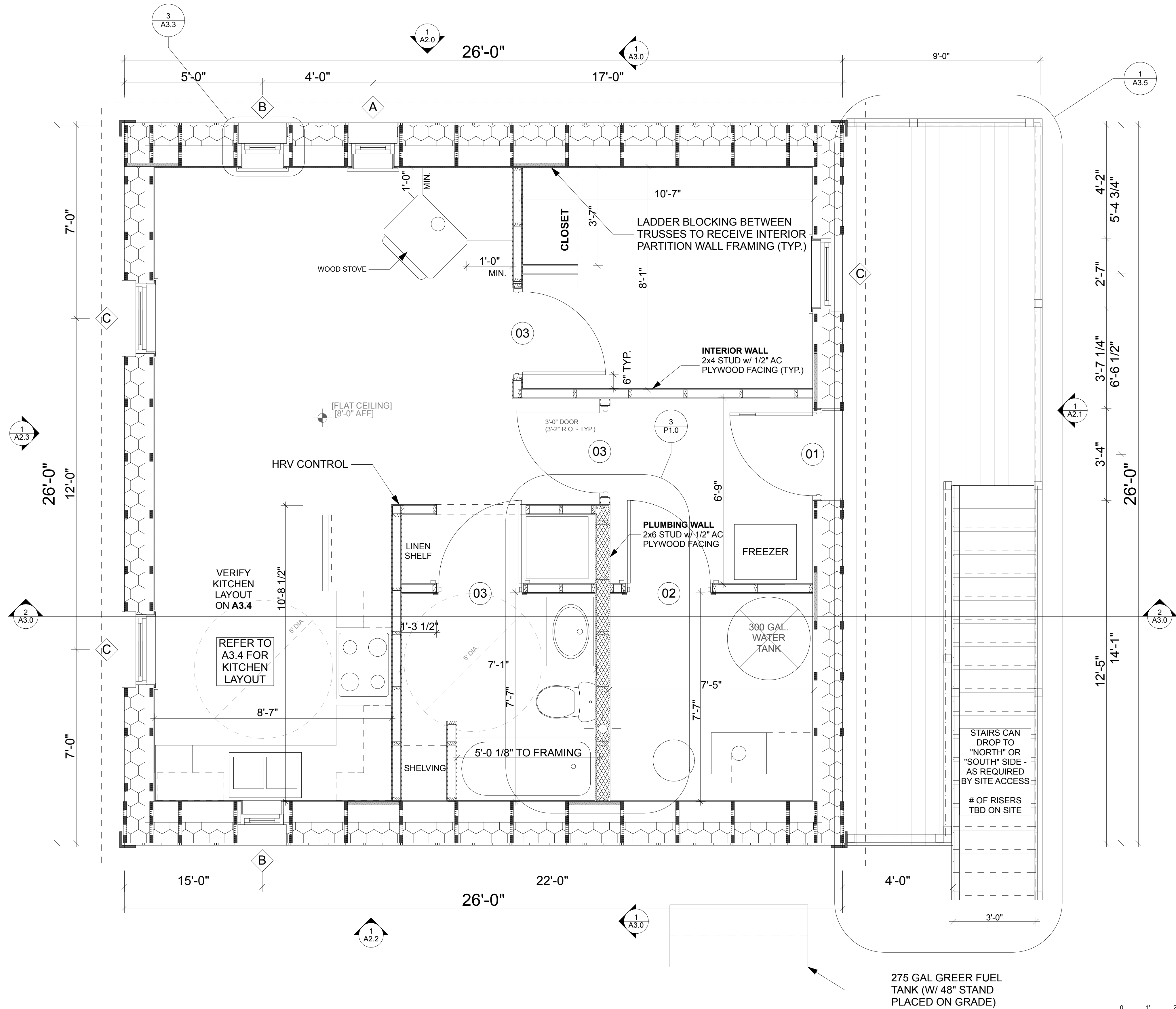
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FOUNDATION  
DETAILS

A1.1

SHEET 3 OF total



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NOTES:  
ALL DOORS 3'-0"  
ALL DIMENSIONS TO FRAMING

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FIRST FLOOR PLAN

A1.2  
SHEET 4 OF total

WINDOW SCHEDULE							
ID	TYPE	ROUGH OPENING WIDTH*	ROUGH OPENING HEIGHT*	FRAME TYPE	HINGE TYPE	FRONT VIEW	QTY
A	VINYL, TRIPLE GLAZED, ARGON FILLED	21.5"	48"	FIXED	FIXED		1
B	VINYL, TRIPLE GLAZED, ARGON FILLED	21.5"	48"	CASEMENT	LHOS		2
C	VINYL, TRIPLE GLAZED, ARGON FILLED	30"	48"	EGRESS	LHOS		3

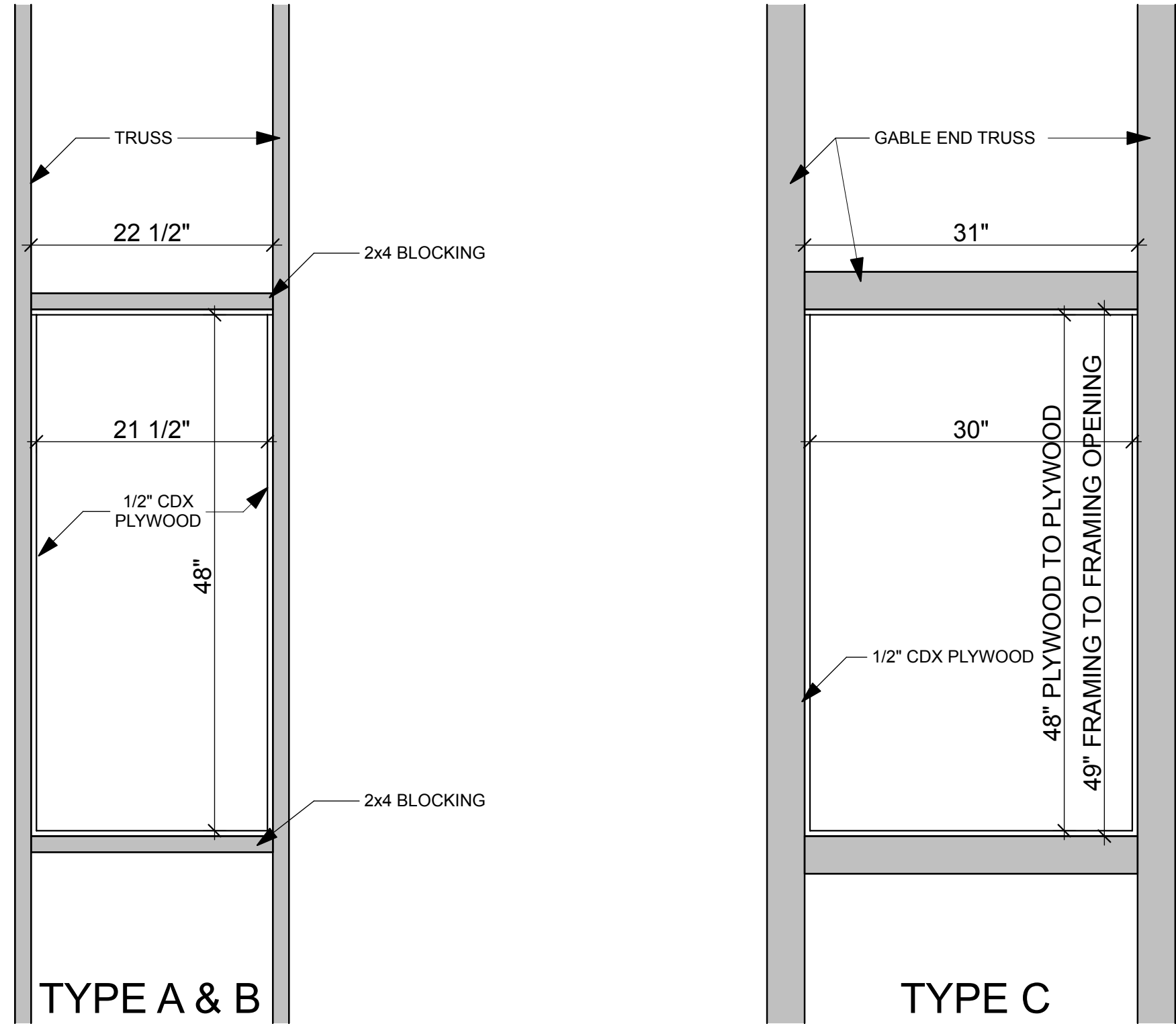
DOOR SCHEDULE								
ID	ELEVATION	TYPE	WIDTH	HEIGHT	FRAME TYPE	HINGE	HINGE SWING	QTY
01	SINGLE PANEL WITH LIGHT	INSULATED METAL DOOR	3'	6'-8"	INSULATED METAL	COMMERCIAL GRADE BALL BEARING	RHIS	1
02	SINGLE PANEL	SOLID CORE DOOR	3'	6'-8"	WOOD	STANDARD INTERIOR	RHOS	1
03	SINGLE PANEL	SOLID CORE DOOR	3'	6'-8"	WOOD	STANDARD INTERIOR	RHIS	3

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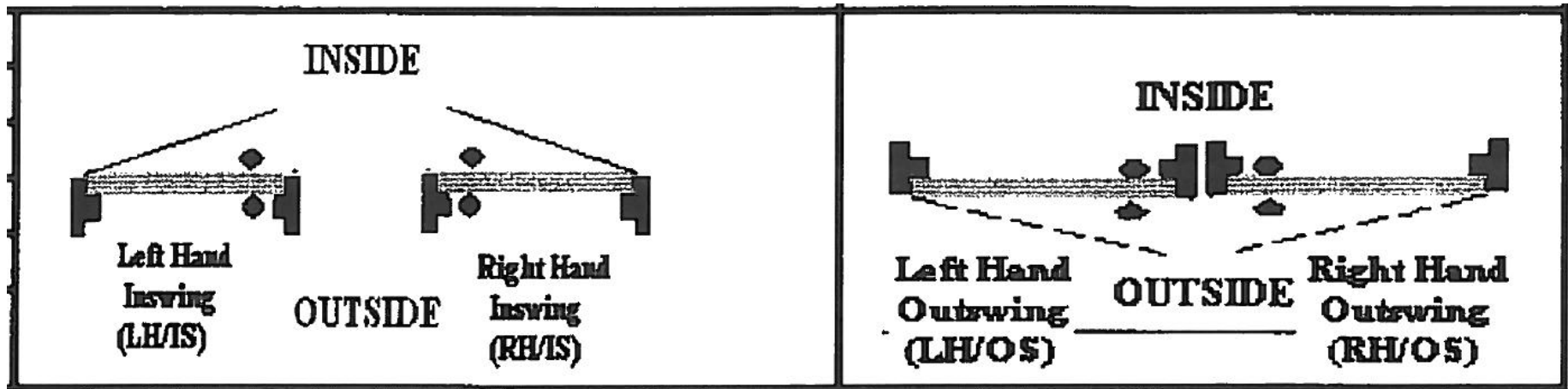
DESIGN DOCUMENTS  
NOT FOR  
CONSTRUCTION

NOTES:

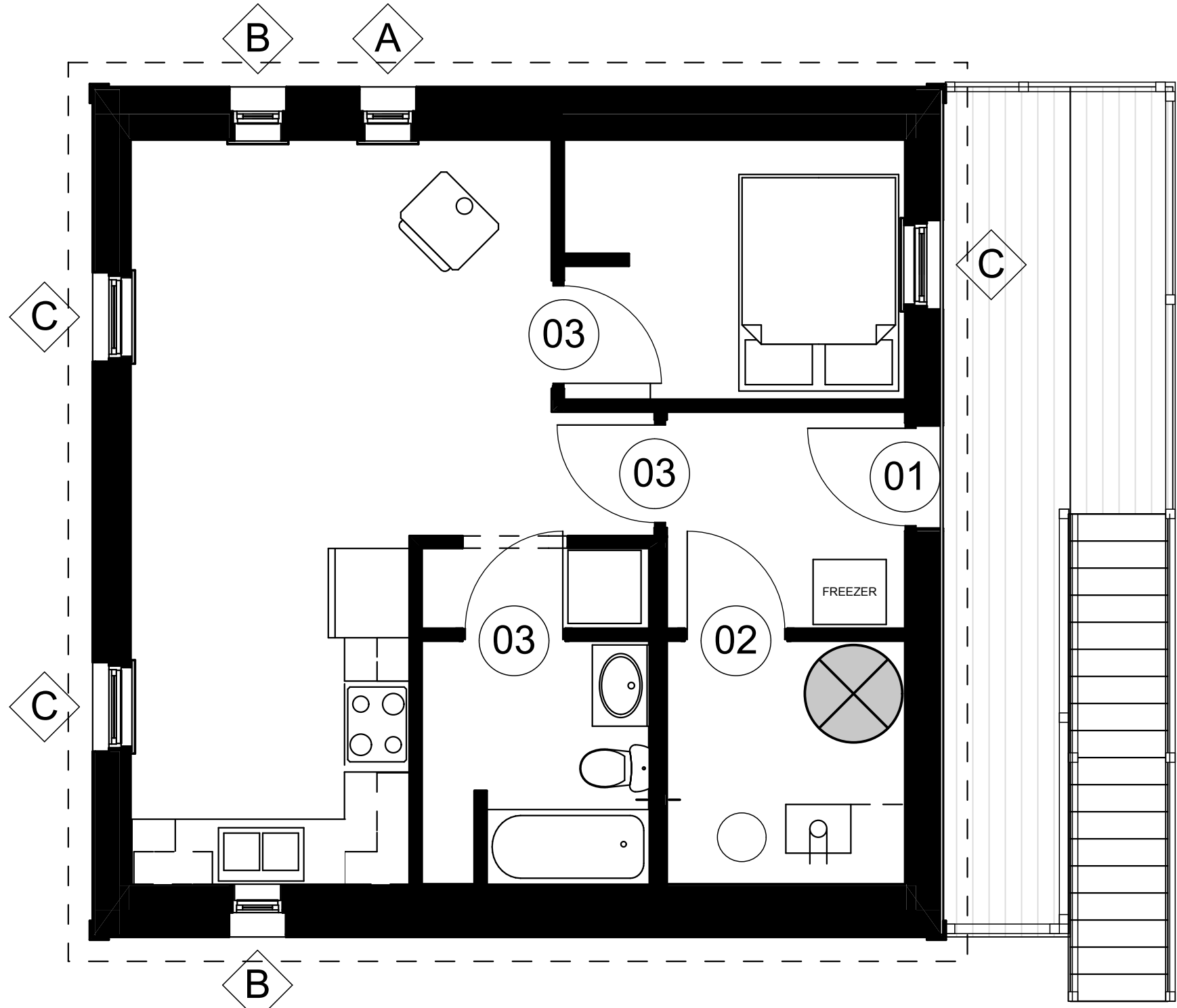
2 WINDOW SCHEDULE



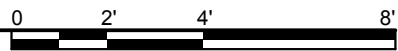
5 WINDOW ROUGH OPENING  
SCALE: 1" = 1'-0"



1 DOOR SCHEDULE



4 DOOR WINDOW PLAN  
SCALE: 1/4" = 1'-0"



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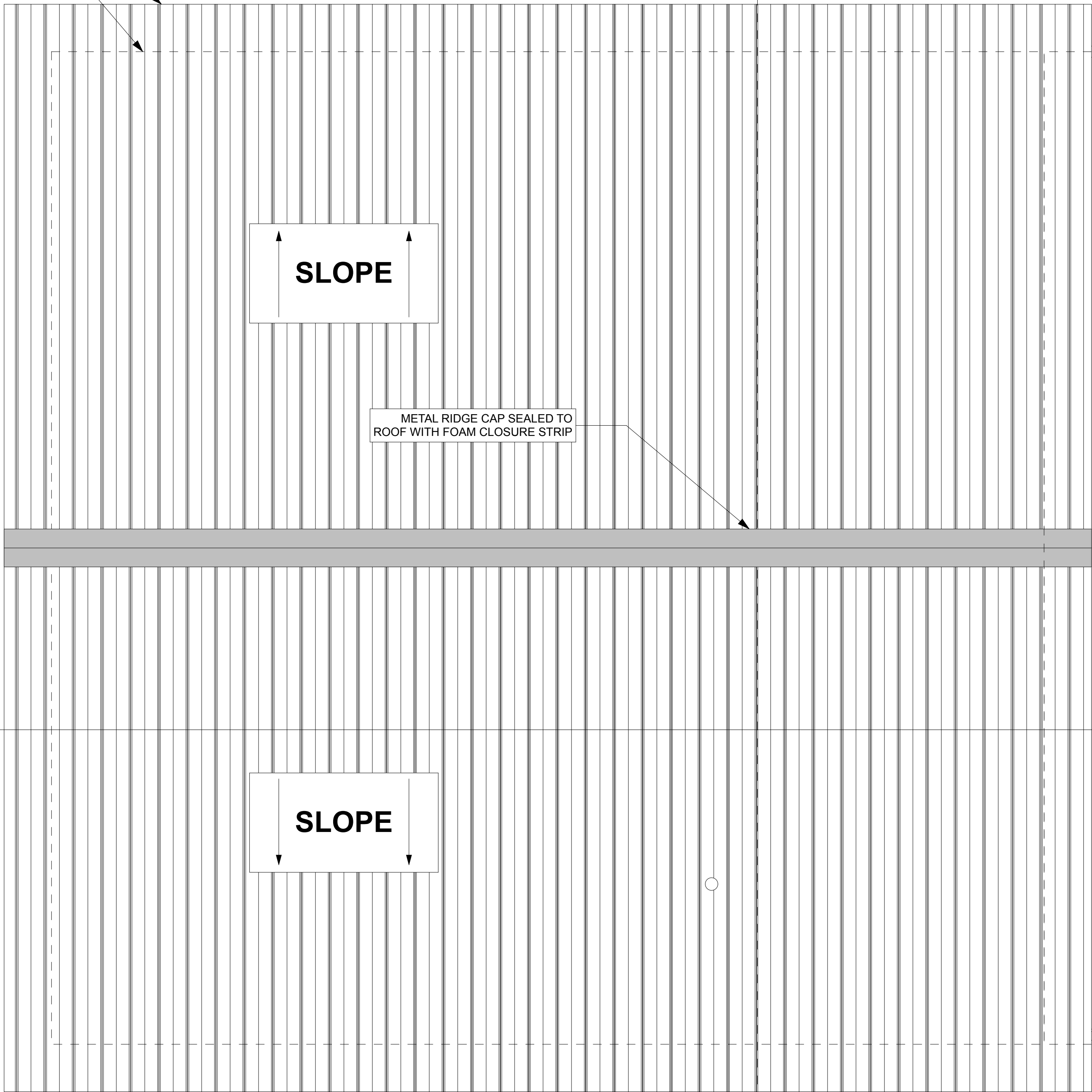
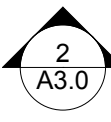
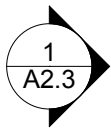
SCHEDULES

**A1.3**

SHEET 5 OF total

CORRUGATED METAL ROOFING

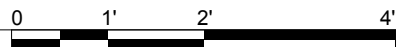
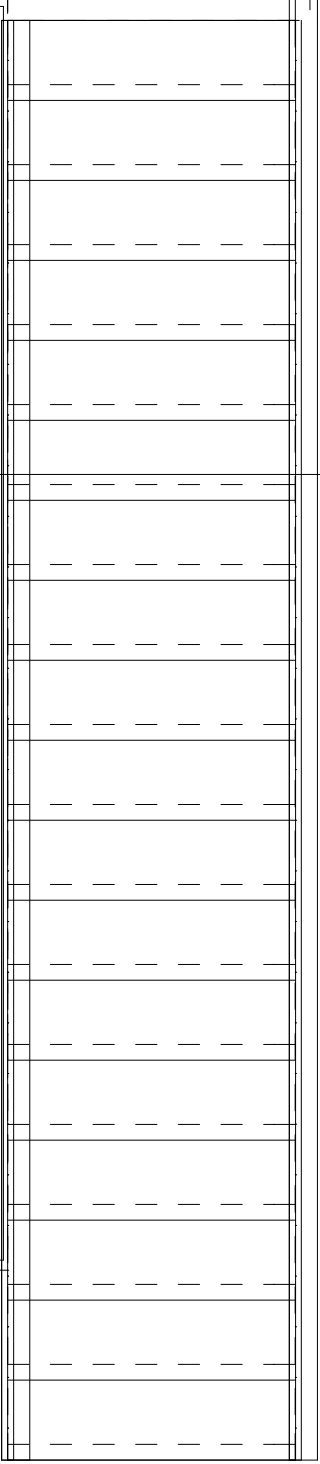
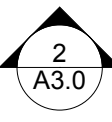
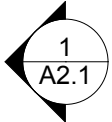
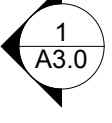
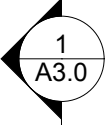
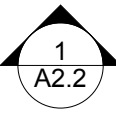
OUTLINE OF WALL BELOW



SLOPE

SLOPE

METAL RIDGE CAP SEALED TO  
ROOF WITH FOAM CLOSURE STRIP



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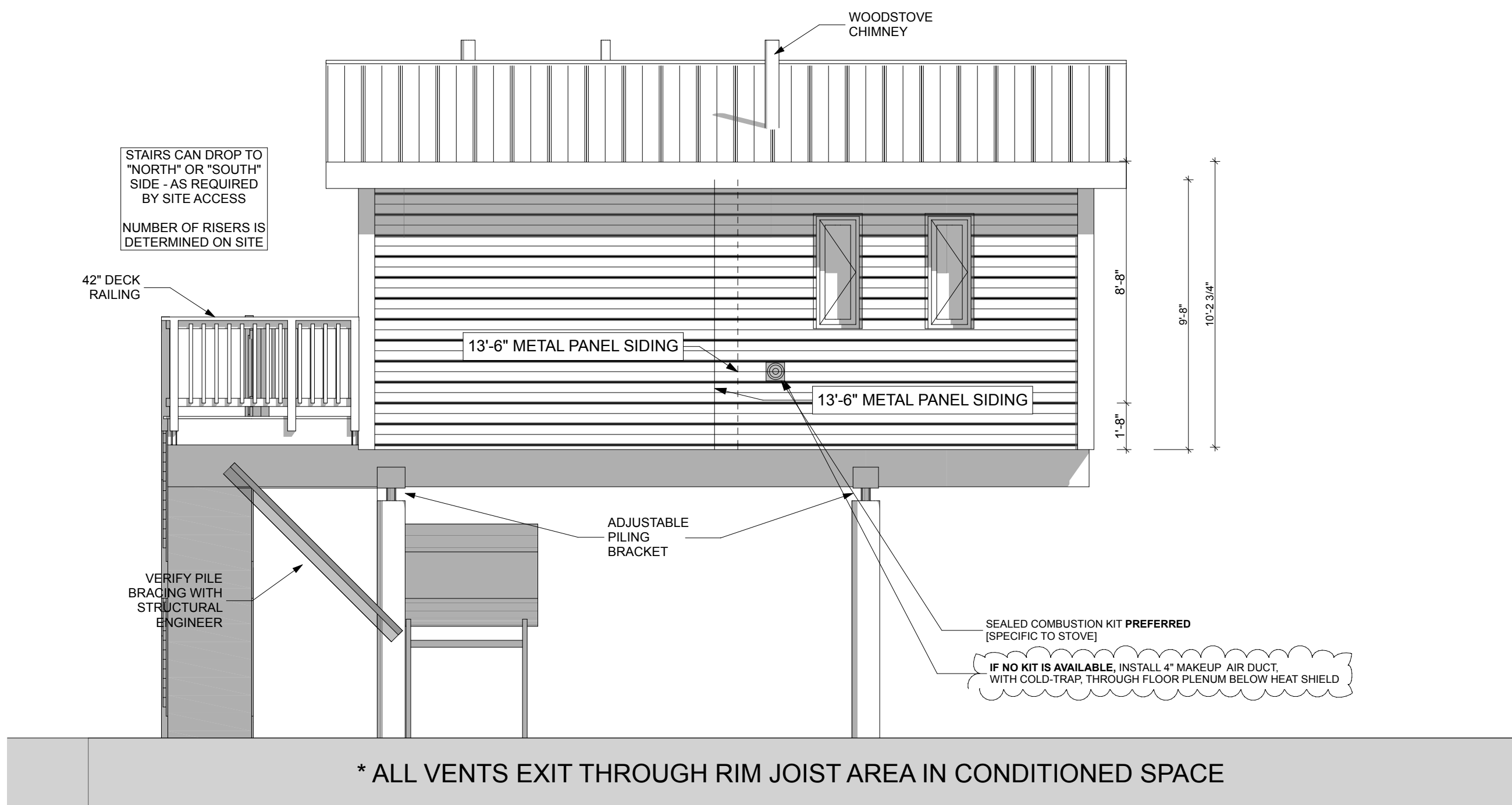


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ONE BEDROOM  
GALENA MODEL  
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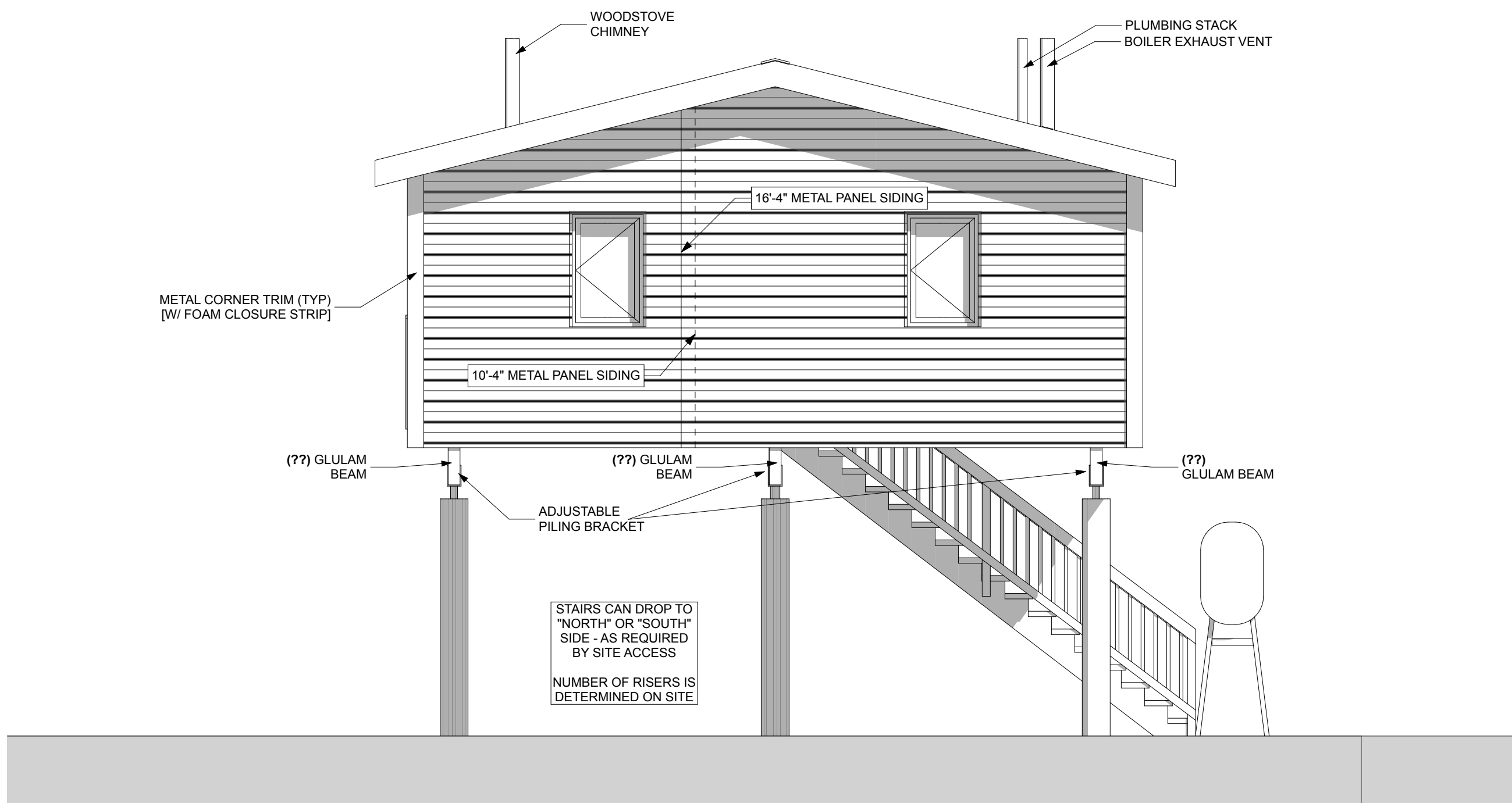
ROOF PLAN

A1.4

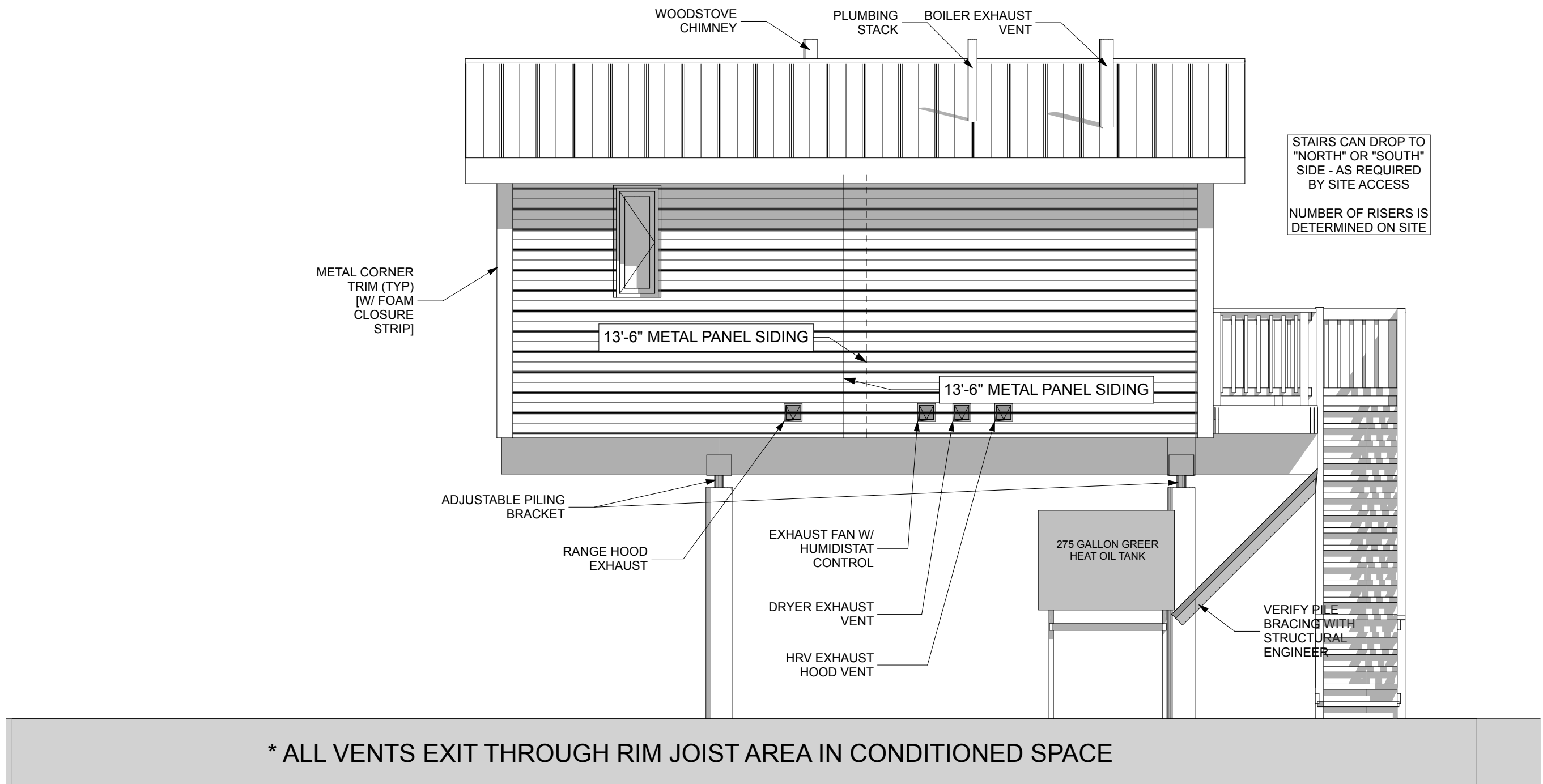
SHEET 6 OF total



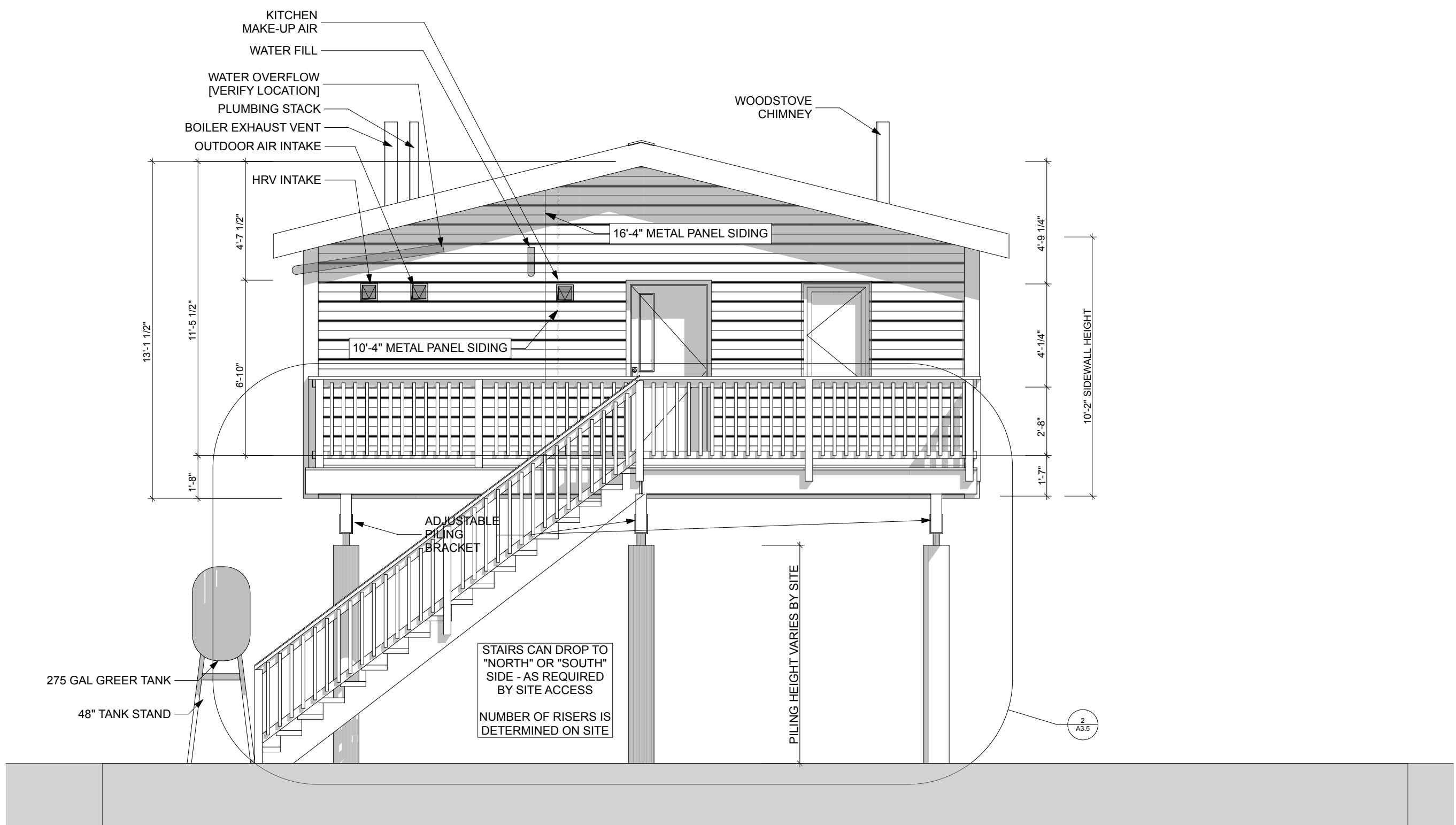
1 SOUTH ELEVATION  
SCALE: 1/4" = 1'-0"



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



2 NORTH ELEVATION  
SCALE: 1/4" = 1'-0"



4 WEST ELEVATION  
SCALE: 1/4" = 1'-0"

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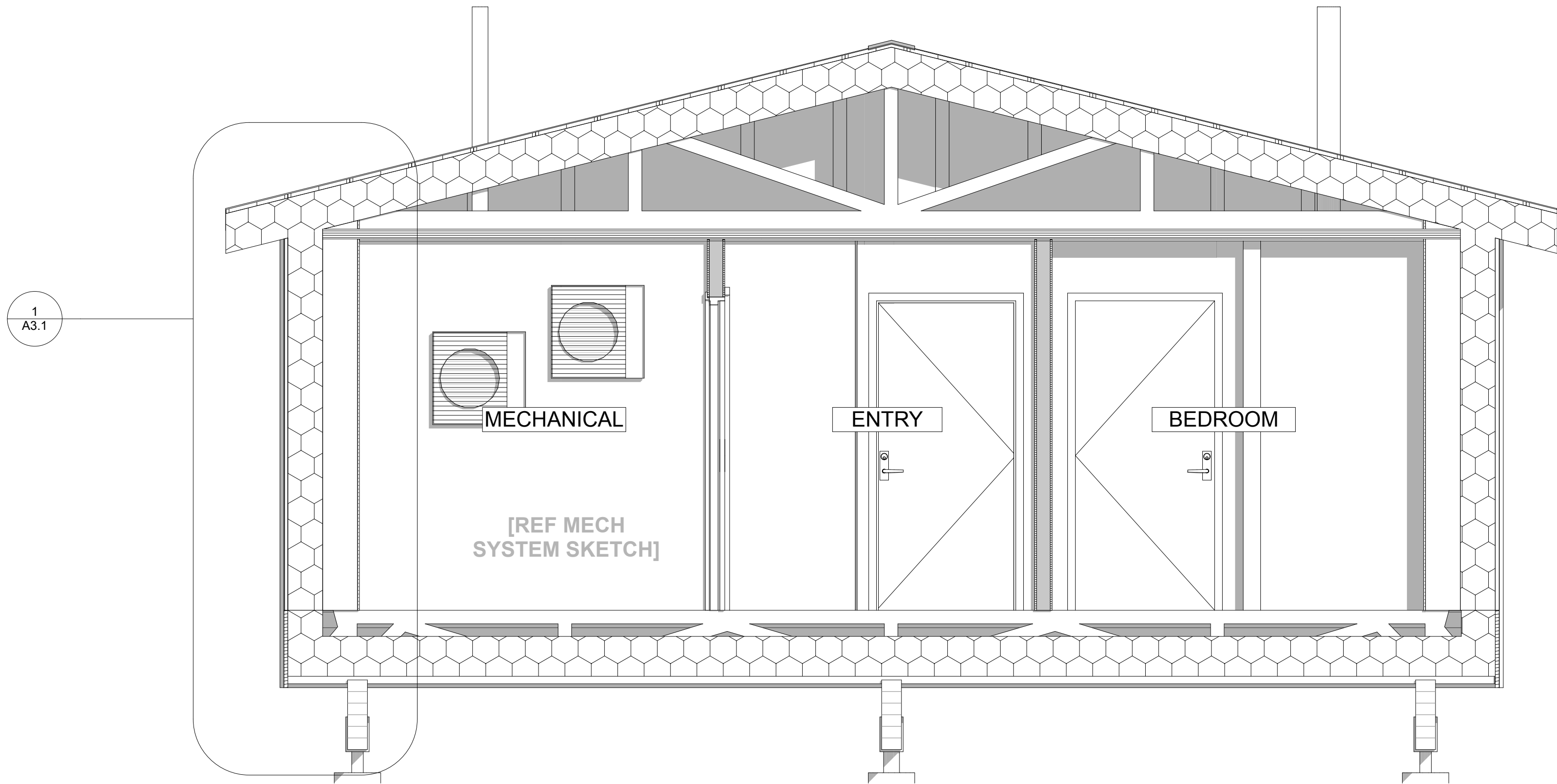
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ONE BEDROOM  
GALENA MODEL  
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ELEVATIONS  
**A2.0**  
SHEET 7 OF total

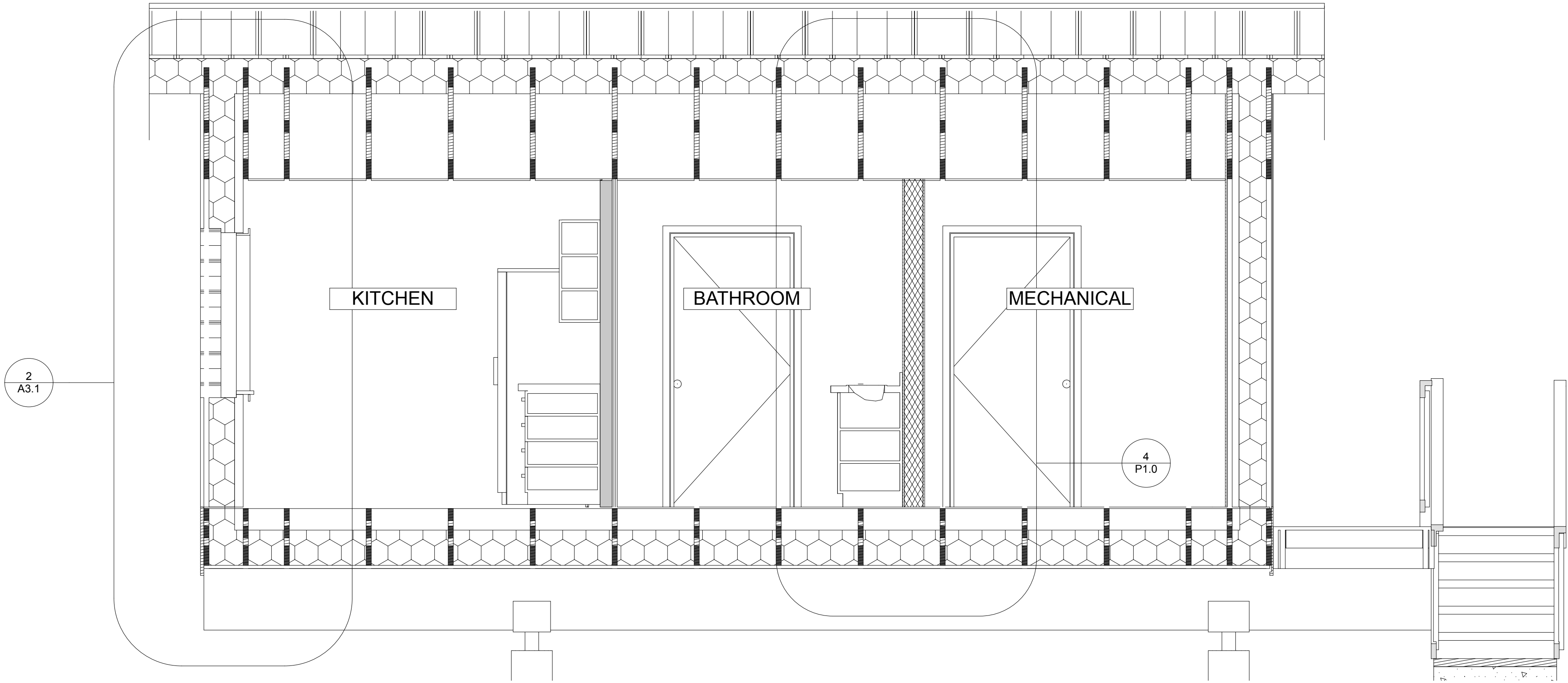
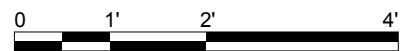




1

N-S SECTION

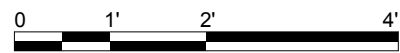
SCALE: 1/2" = 1'-0"



2

E-W SECTION

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



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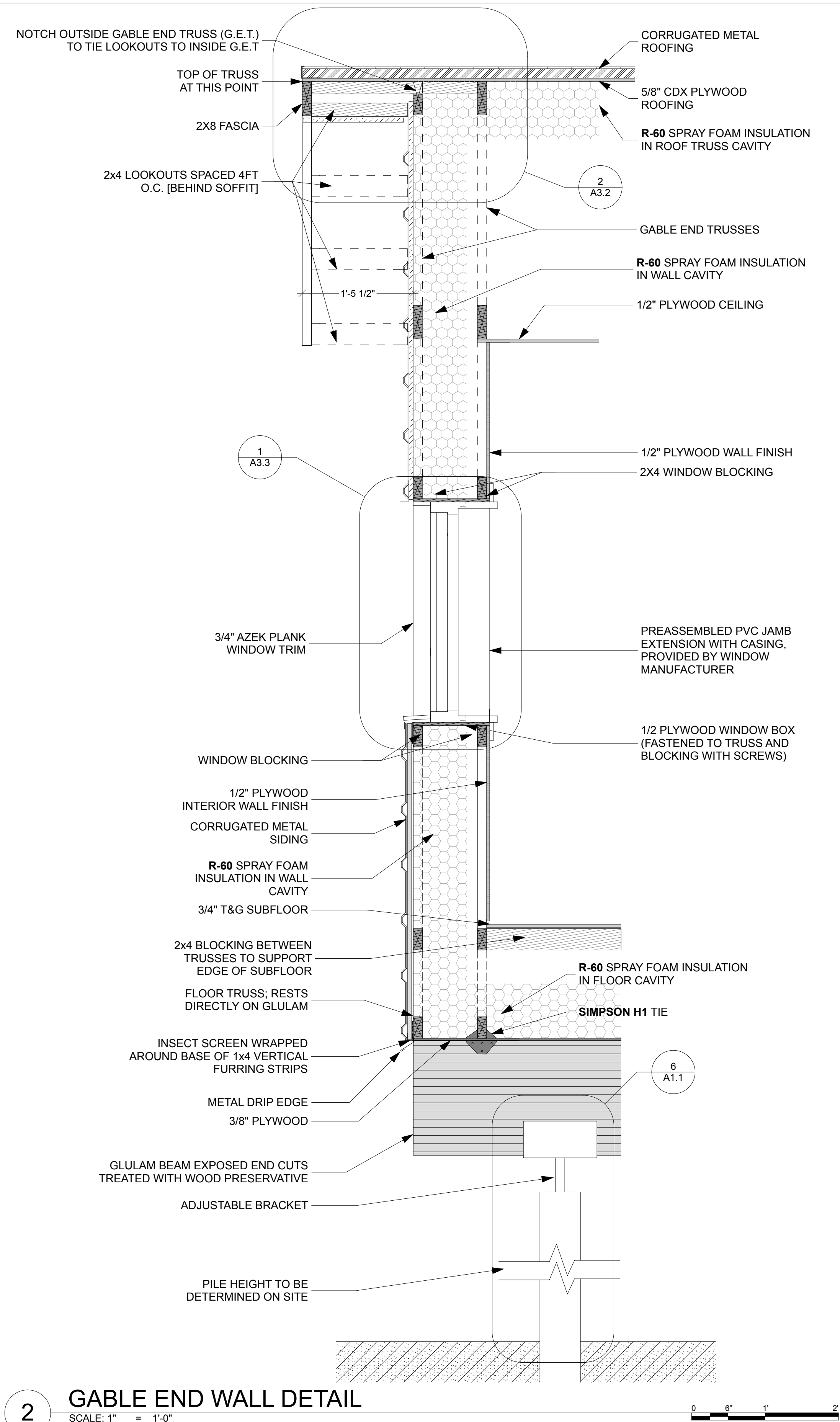
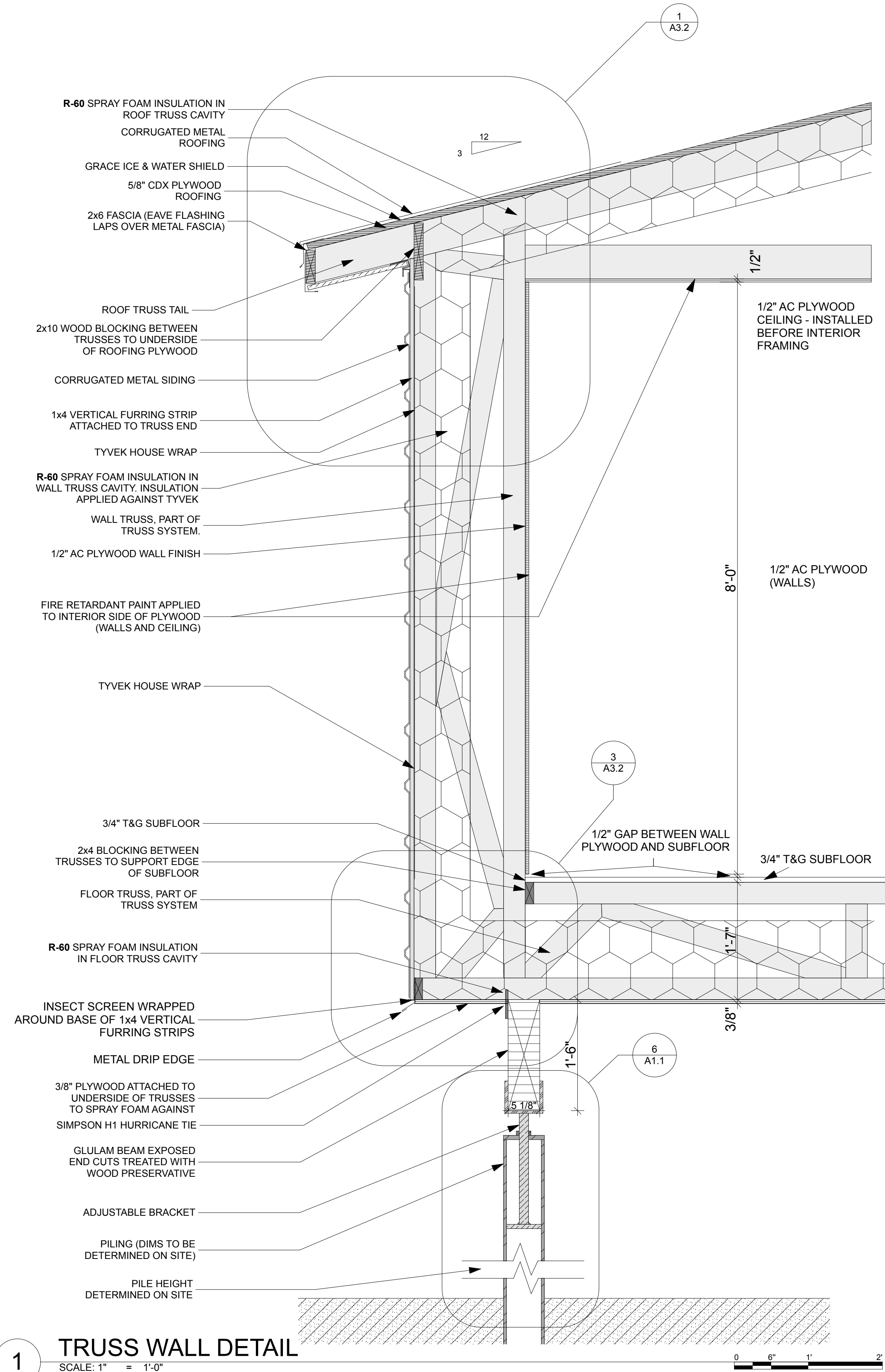
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ONE-BEDROOM  
GALENA MODEL

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SECTIONS		
A3.0		
SHEET	12	OF total





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**ONE BEDROOM**  
GALENA MODEL

Galena, Alaska

ISSUED 08/12/2013

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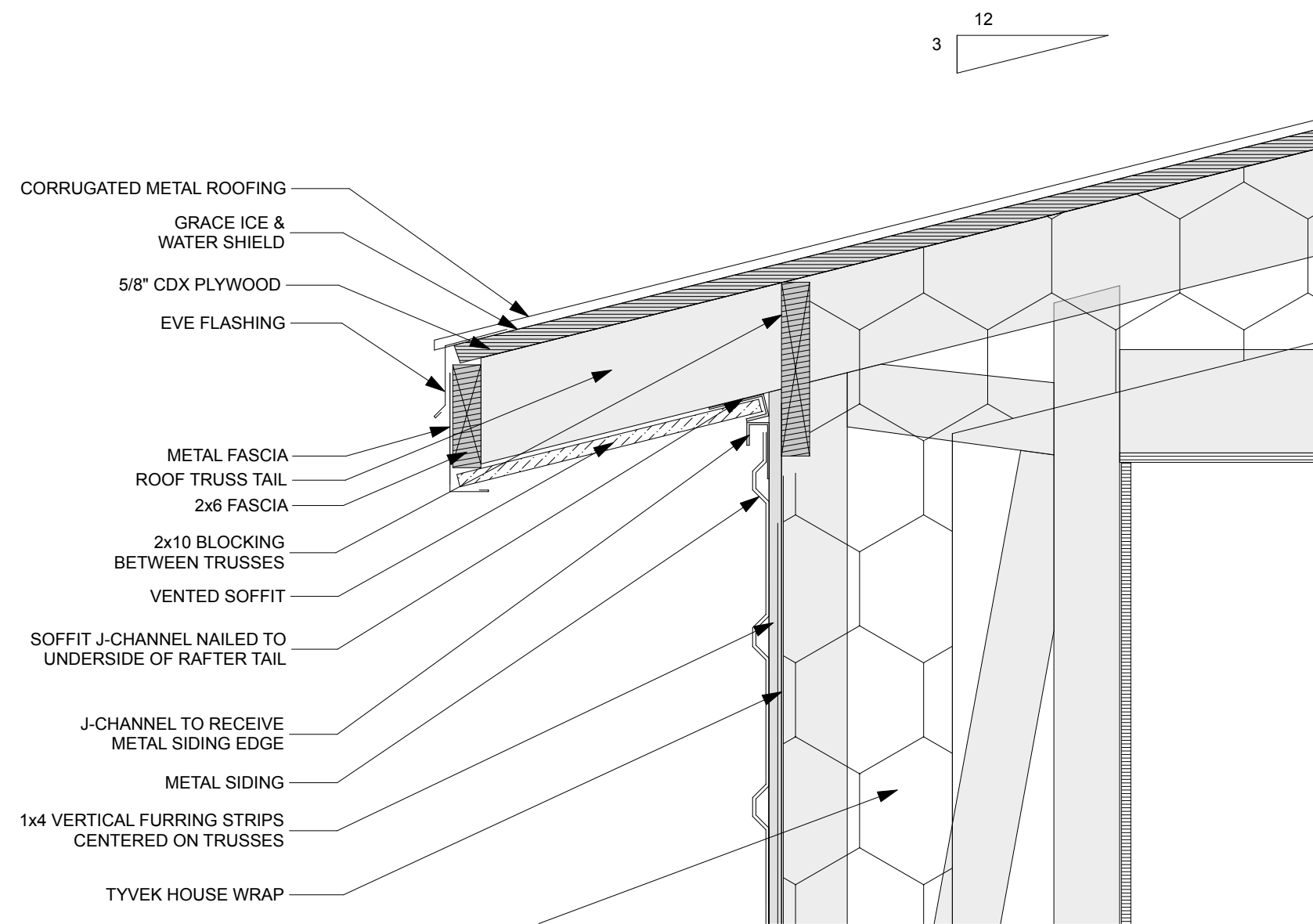
08/12/2013  
Design Dev

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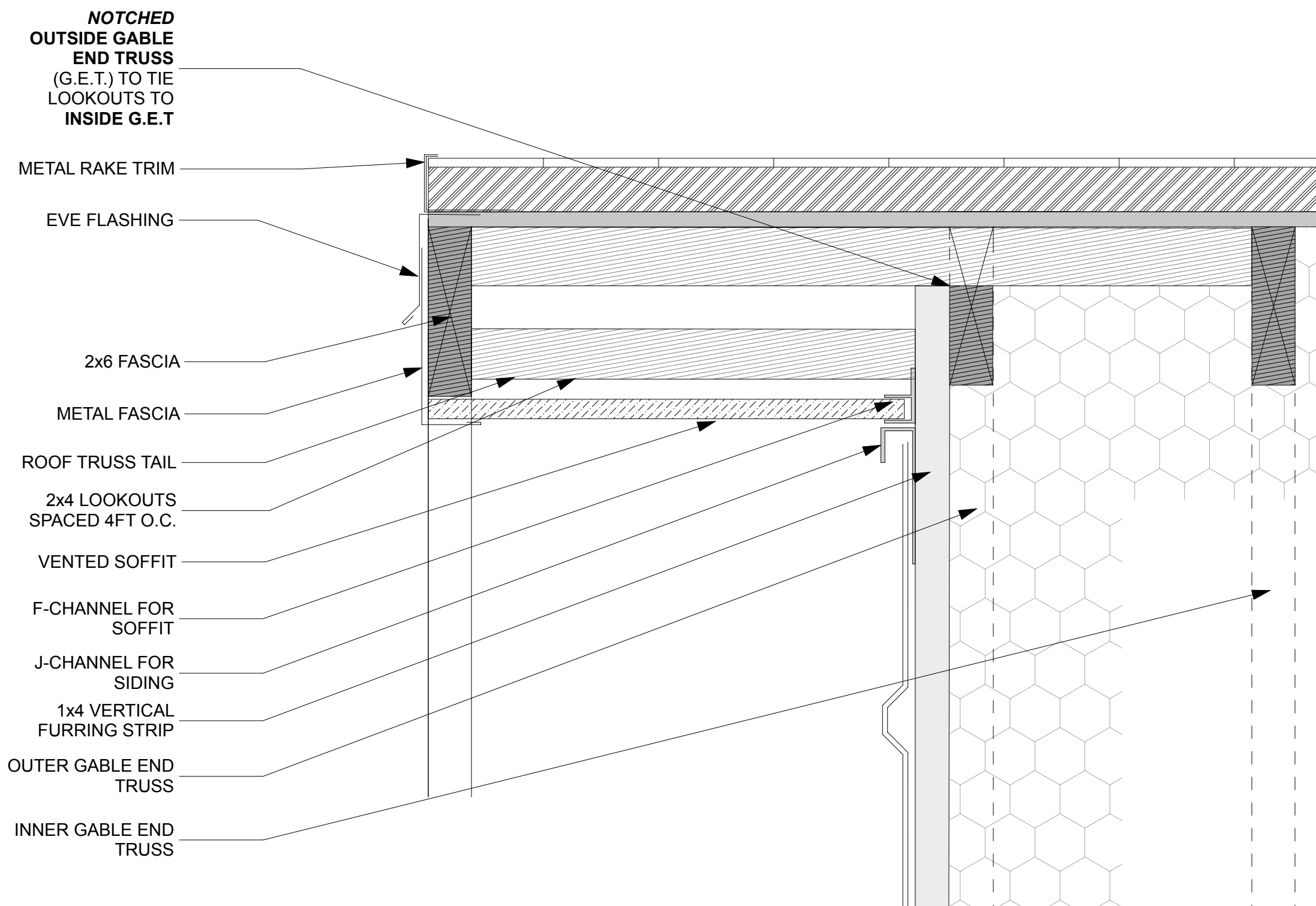
WALL SECTIONS

## A3.1

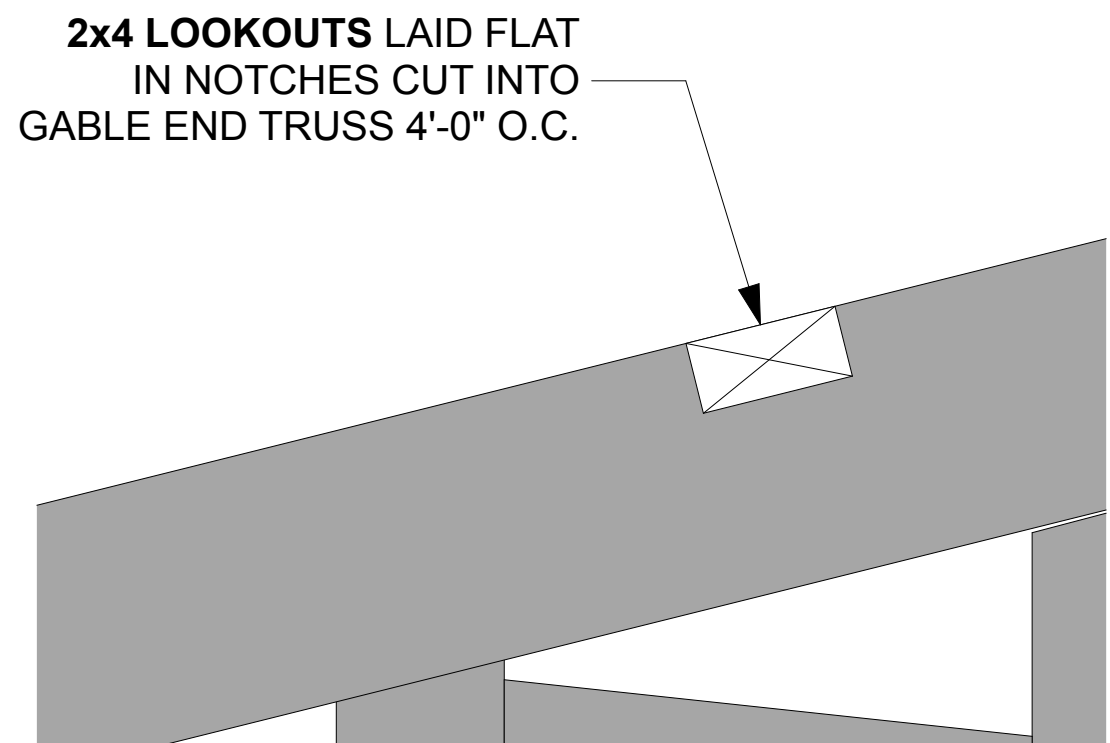
SHEET 13 OF total



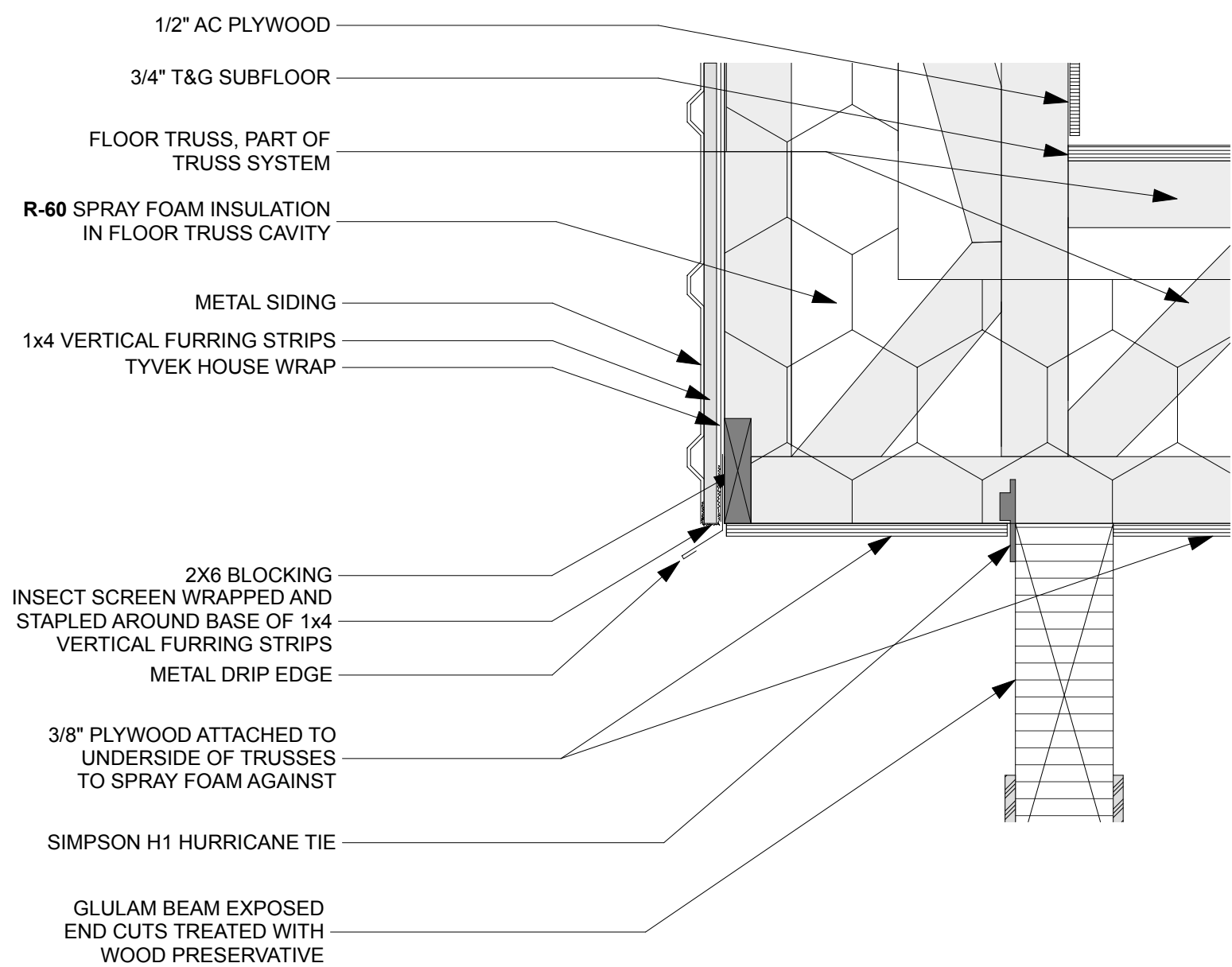
1 SOFFIT DETAIL  
SCALE: 1 1/2" = 1'-0"



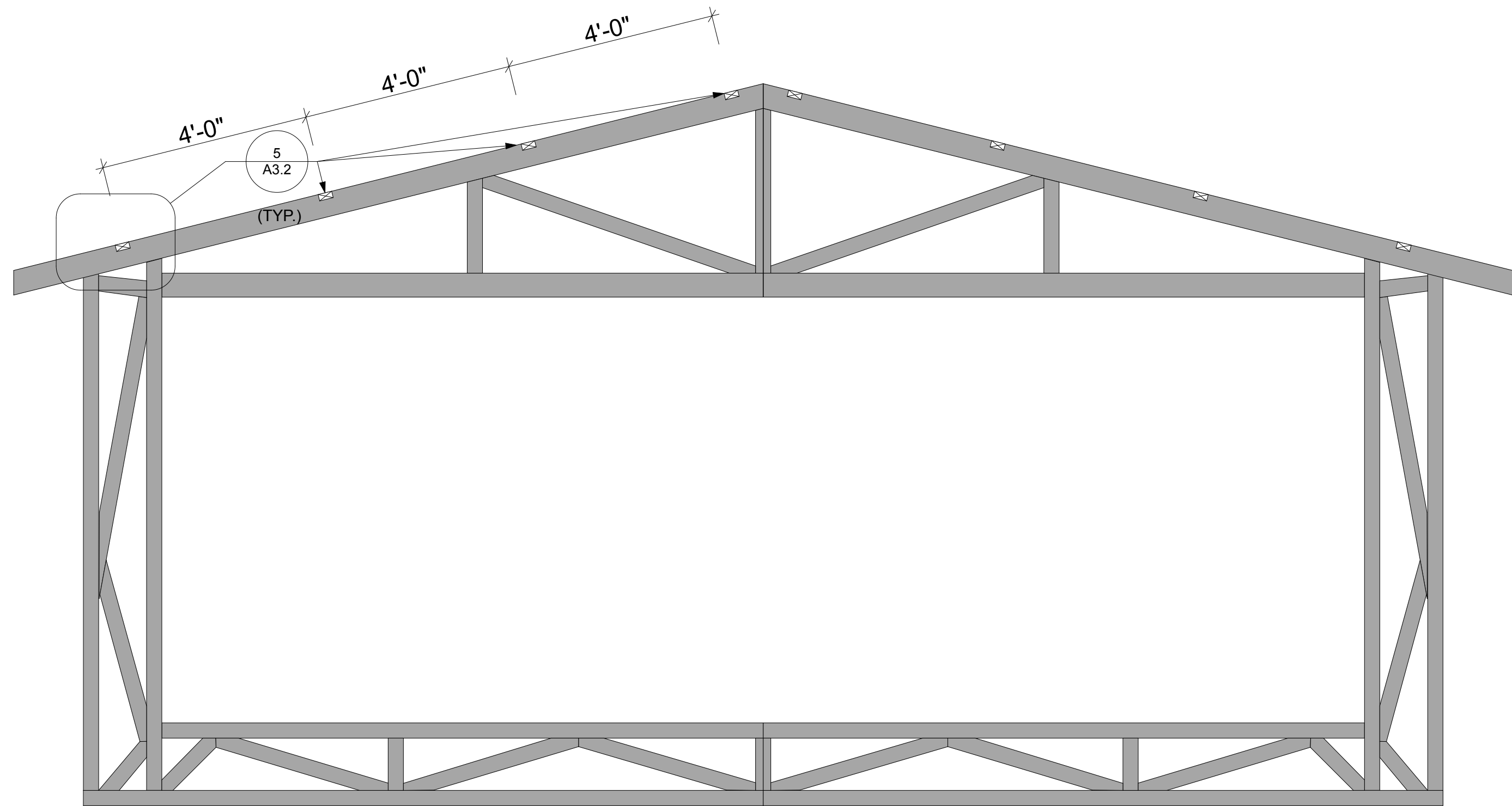
2 ROOF LOOKOUT DETAIL  
SCALE: 3" = 1'-0"



5 LOOKOUT NOTCH DETAIL  
SCALE: 3" = 1'-0"



3 TRUSS WALL FURRING-SIDING DETAIL  
SCALE: 1 1/2" = 1'-0"



4 ROOF EVE LOOKOUT PLACEMENT ELEVATION  
SCALE: 1/2" = 1'-0"

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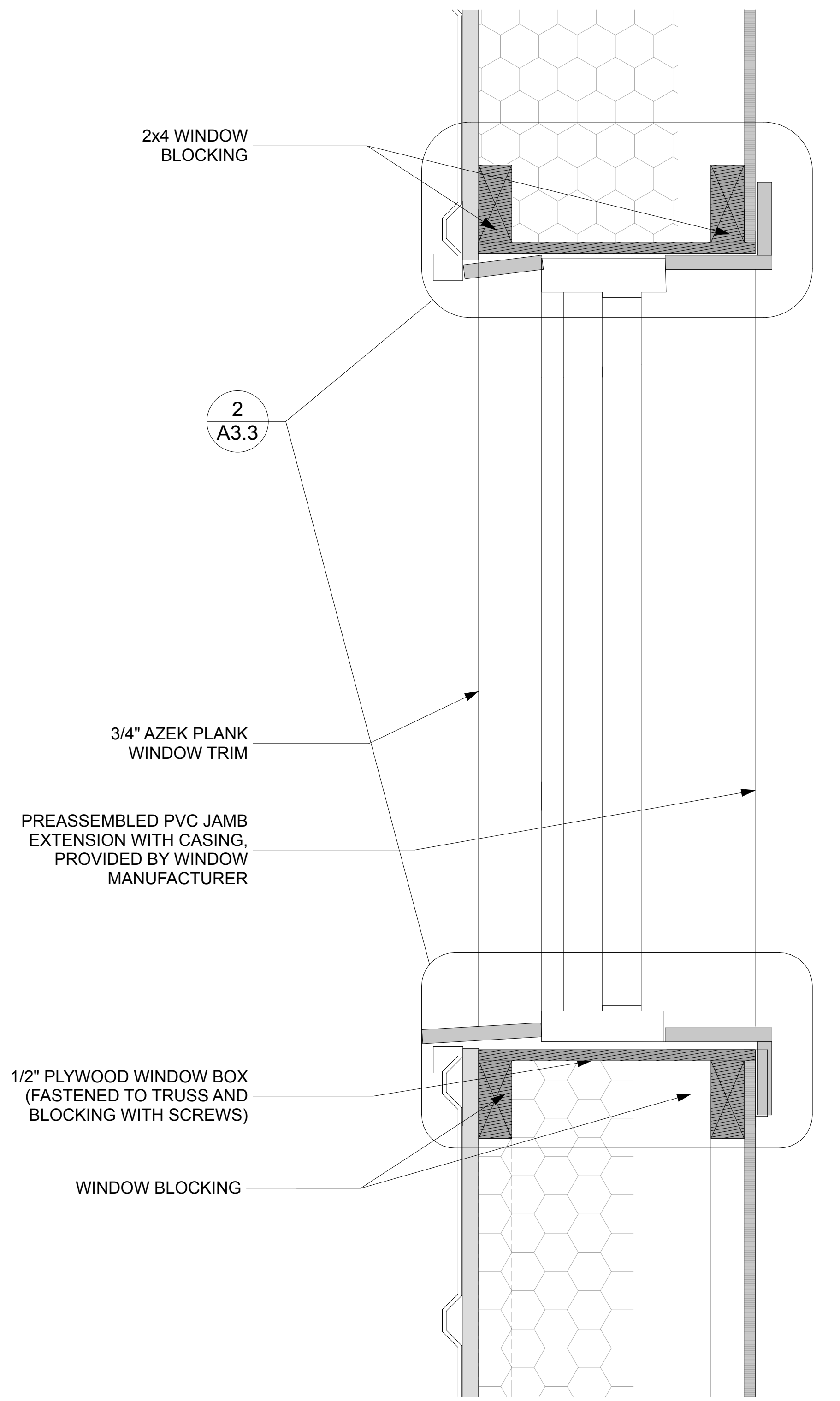
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W/ BEDROOM  
ONE-LEVEL  
GALENA MODEL

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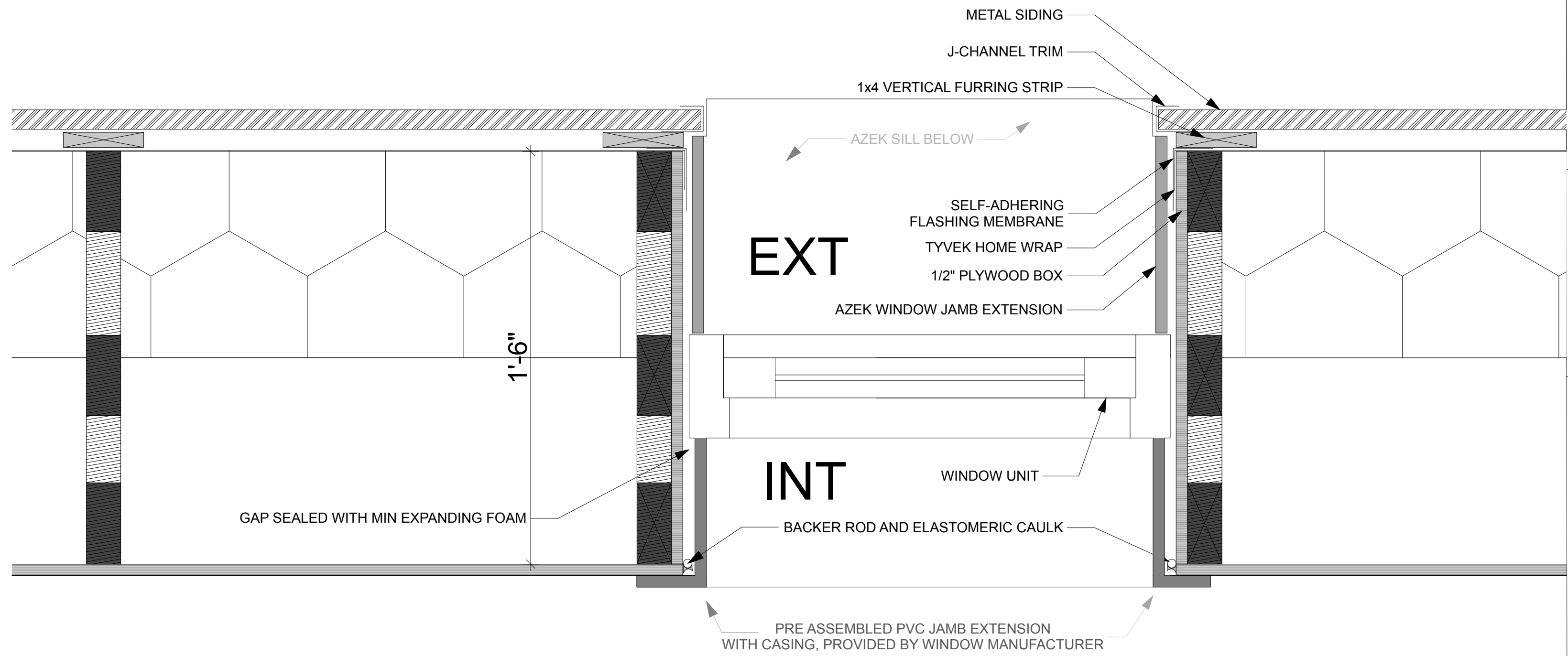
ENVELOPE  
DETAILS

**A3.2**

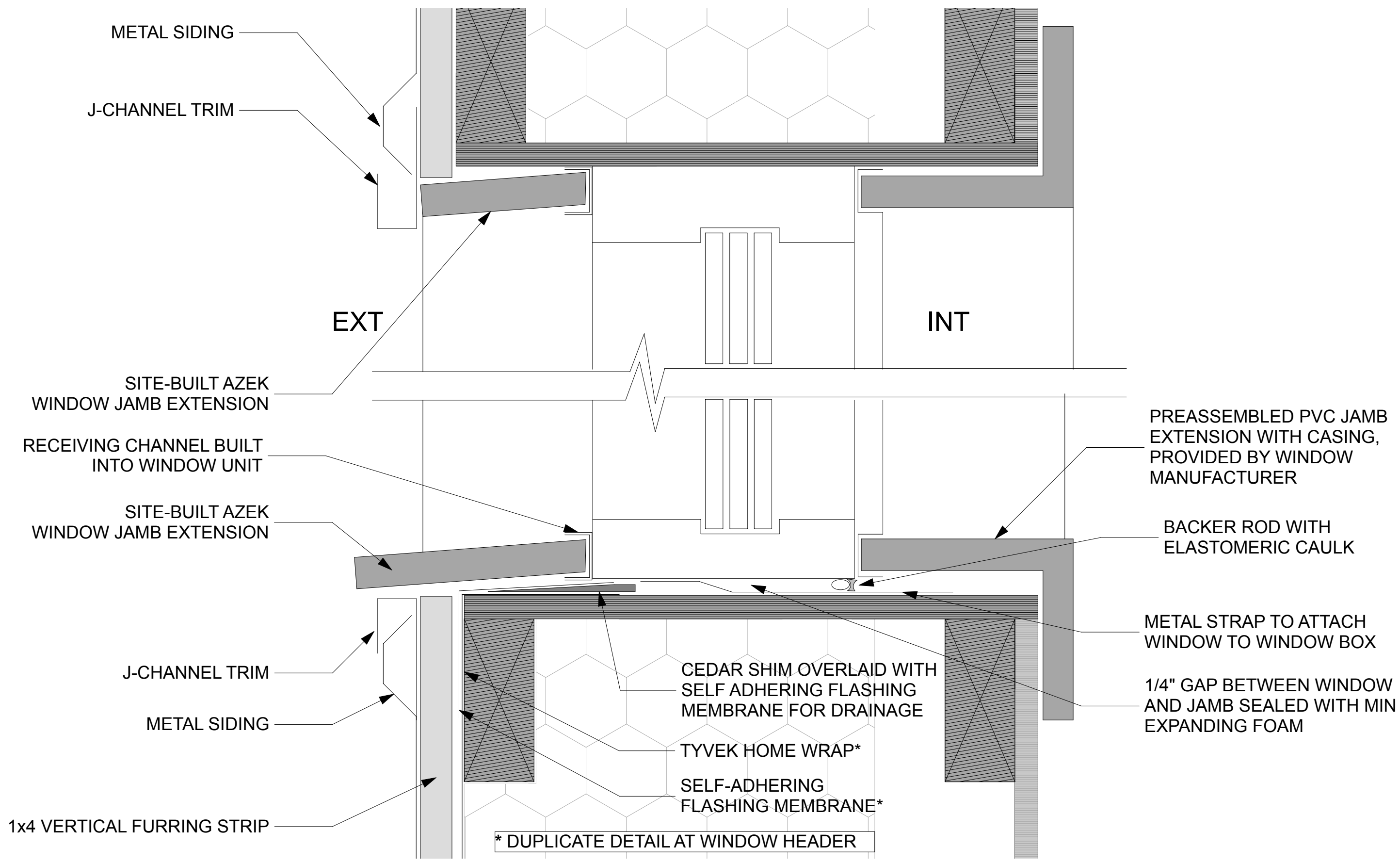
SHEET 14 OF total



1 WINDOW BOX DETAIL



3 WINDOW SILL DETAIL ON TRUSS END WALL



2 WINDOW SILL DETAIL ON GABLE END WALL

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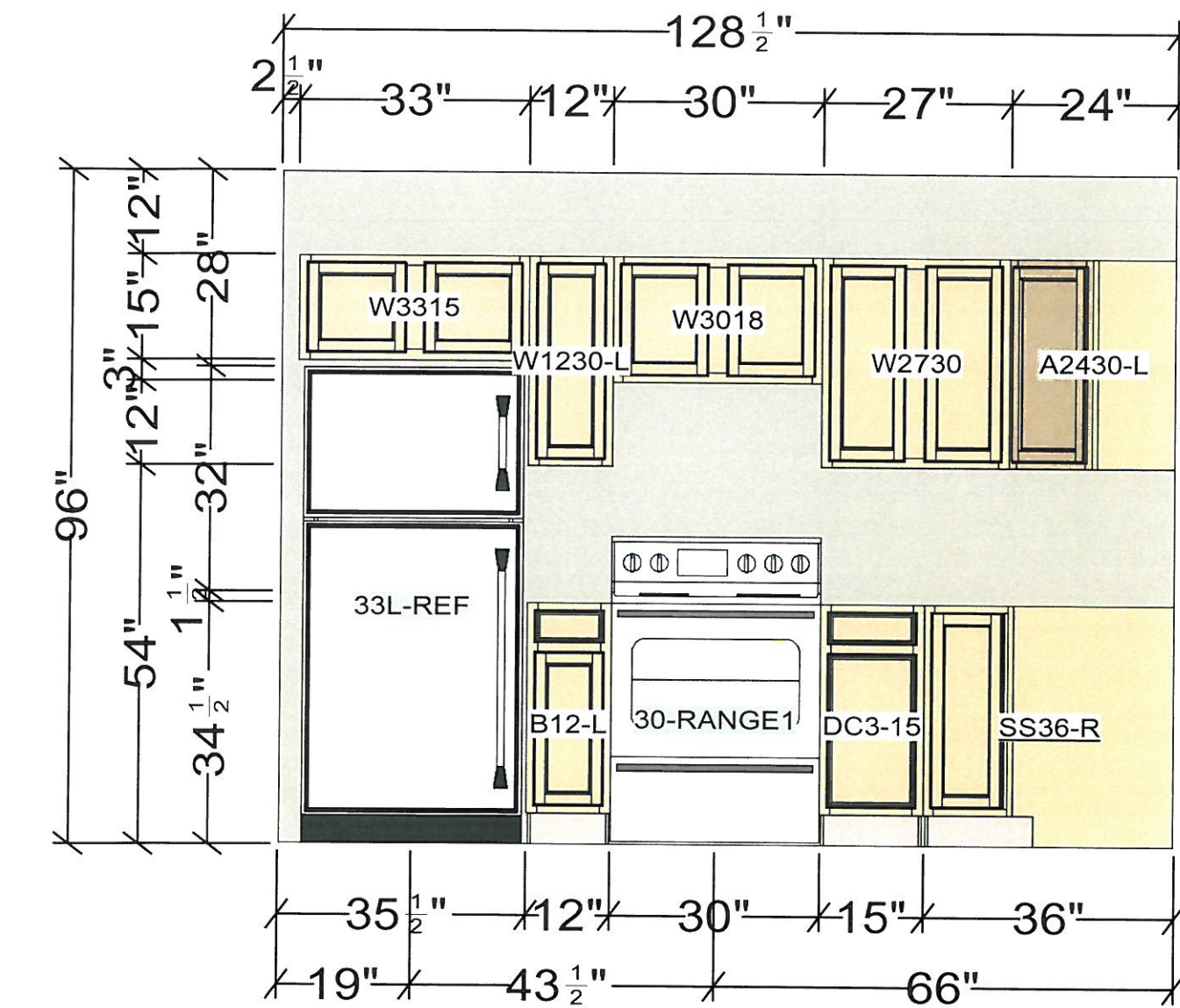
WINDOW DETAILS

A3.3

SHEET 15 OF total

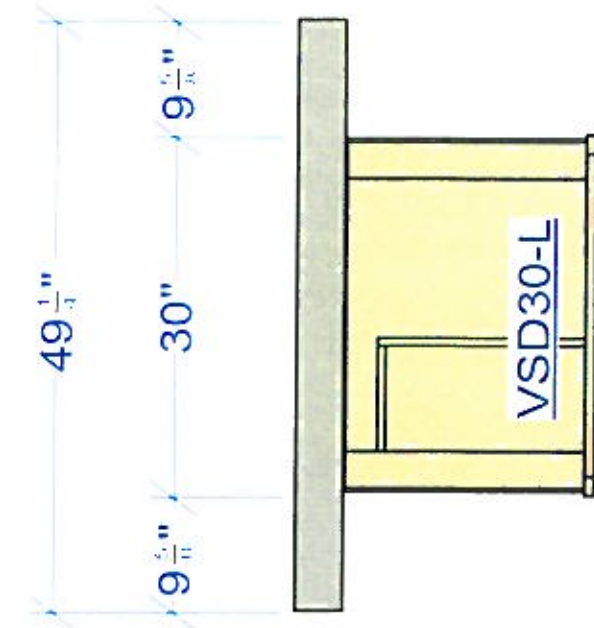


0 KITCHEN PLAN  
NOT TO SCALE

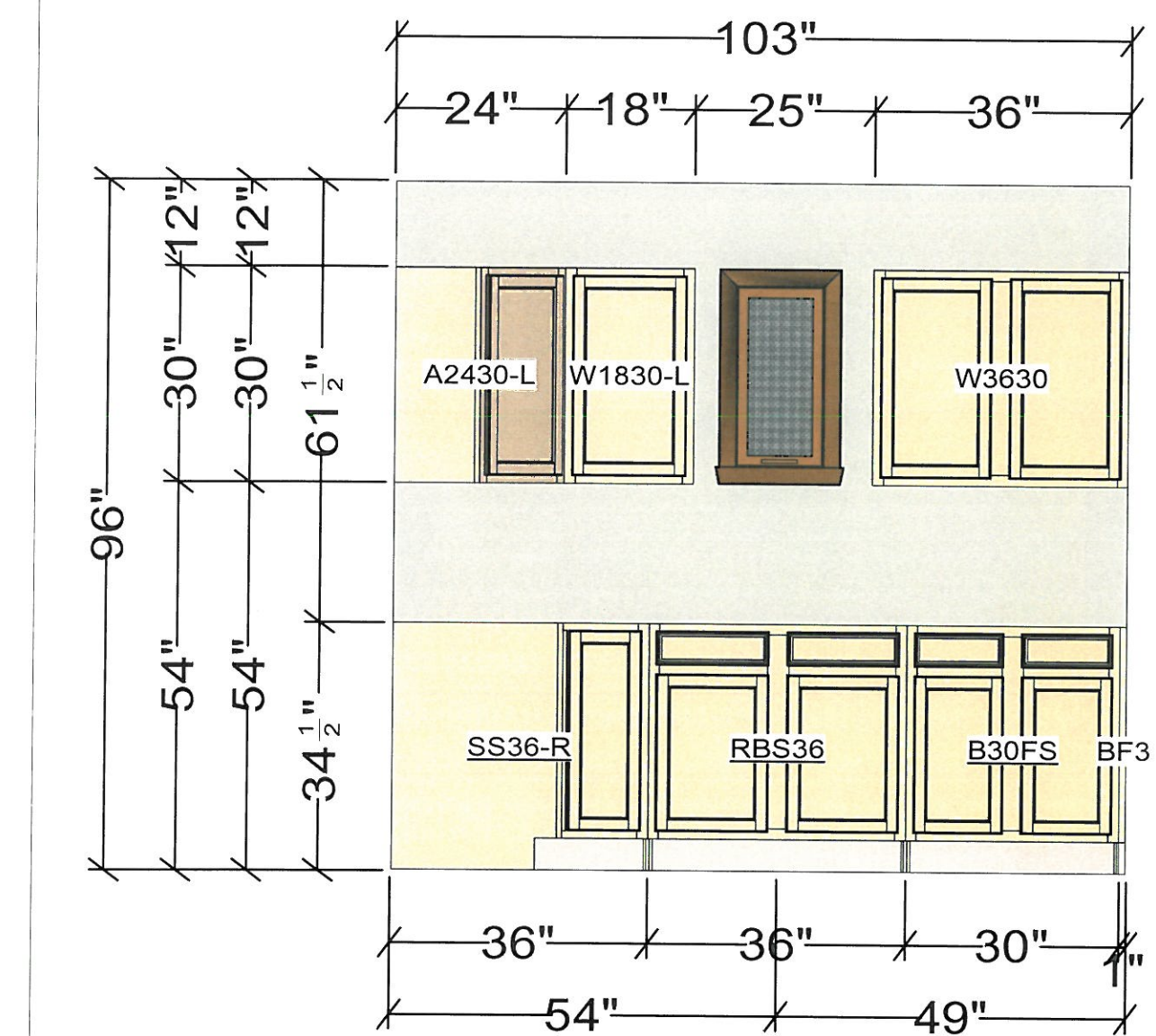
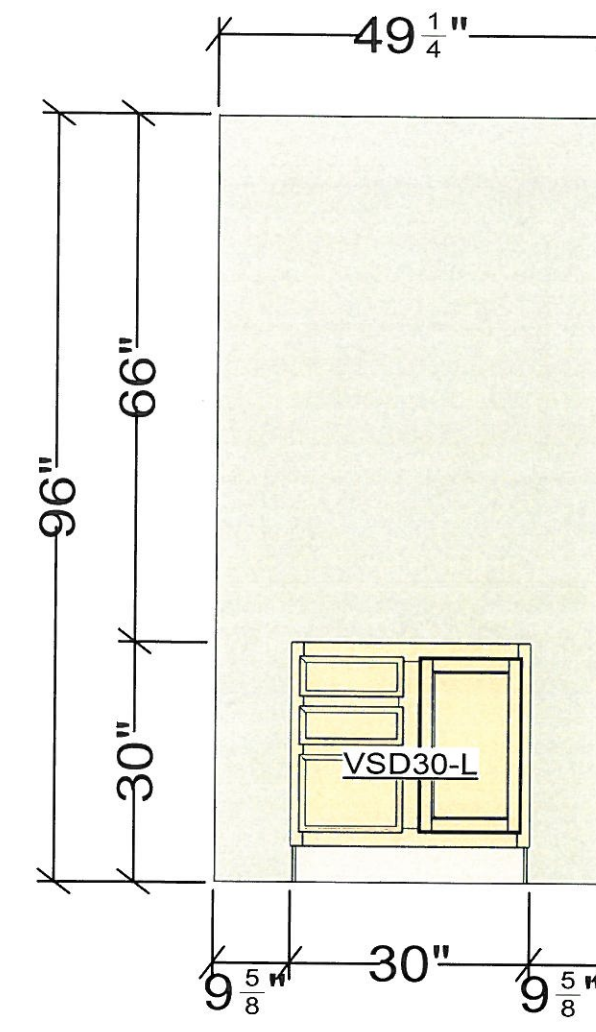


1 KITCHEN ELEVATION  
NOT TO SCALE

4 BATHROOM VANITY PLAN  
NOT TO SCALE



5 BATHROOM VANITY ELEVATION  
NOT TO SCALE



2 KITCHEN ELEVATION  
NOT TO SCALE

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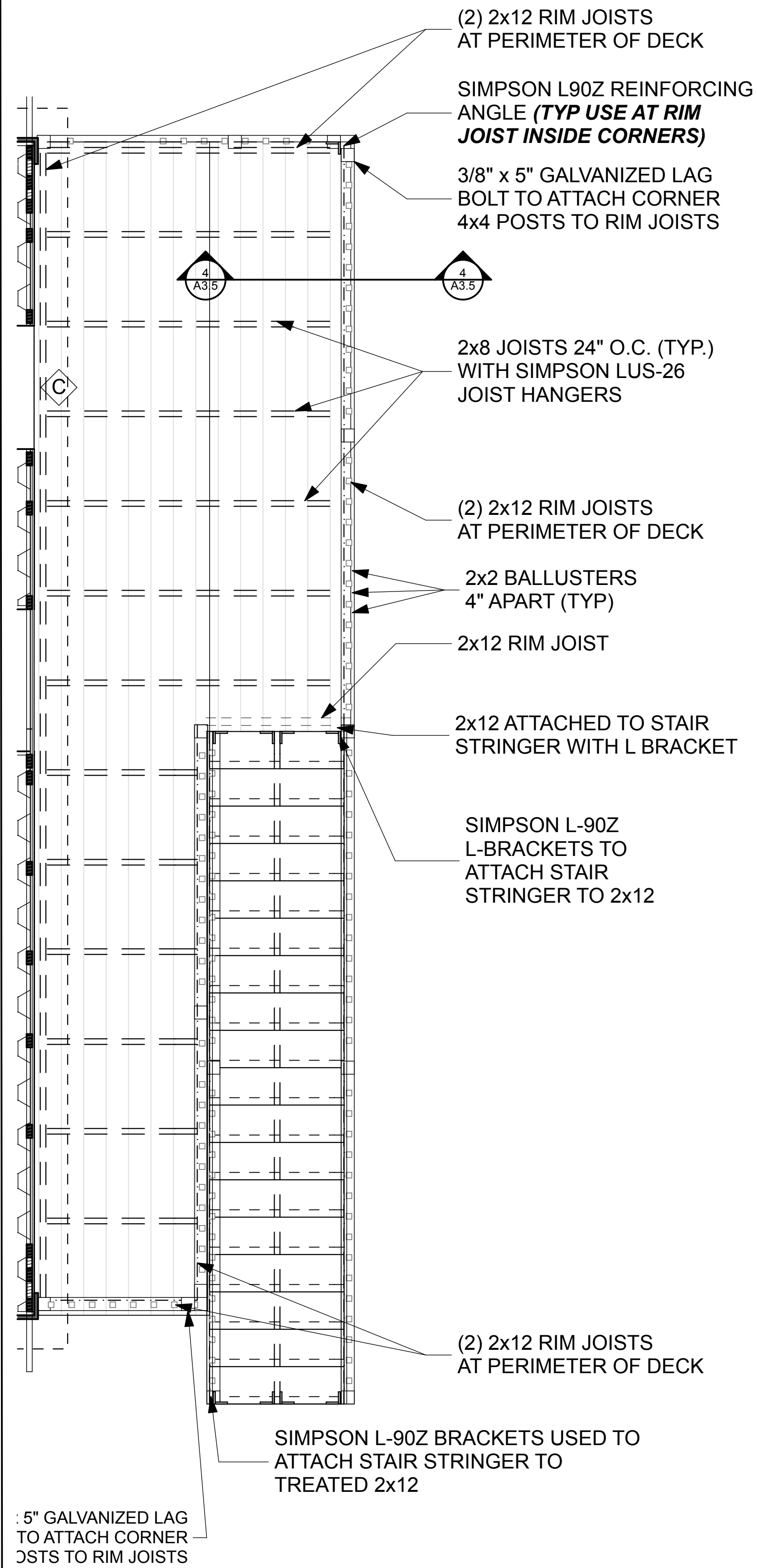
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KITCHEN DETAILS

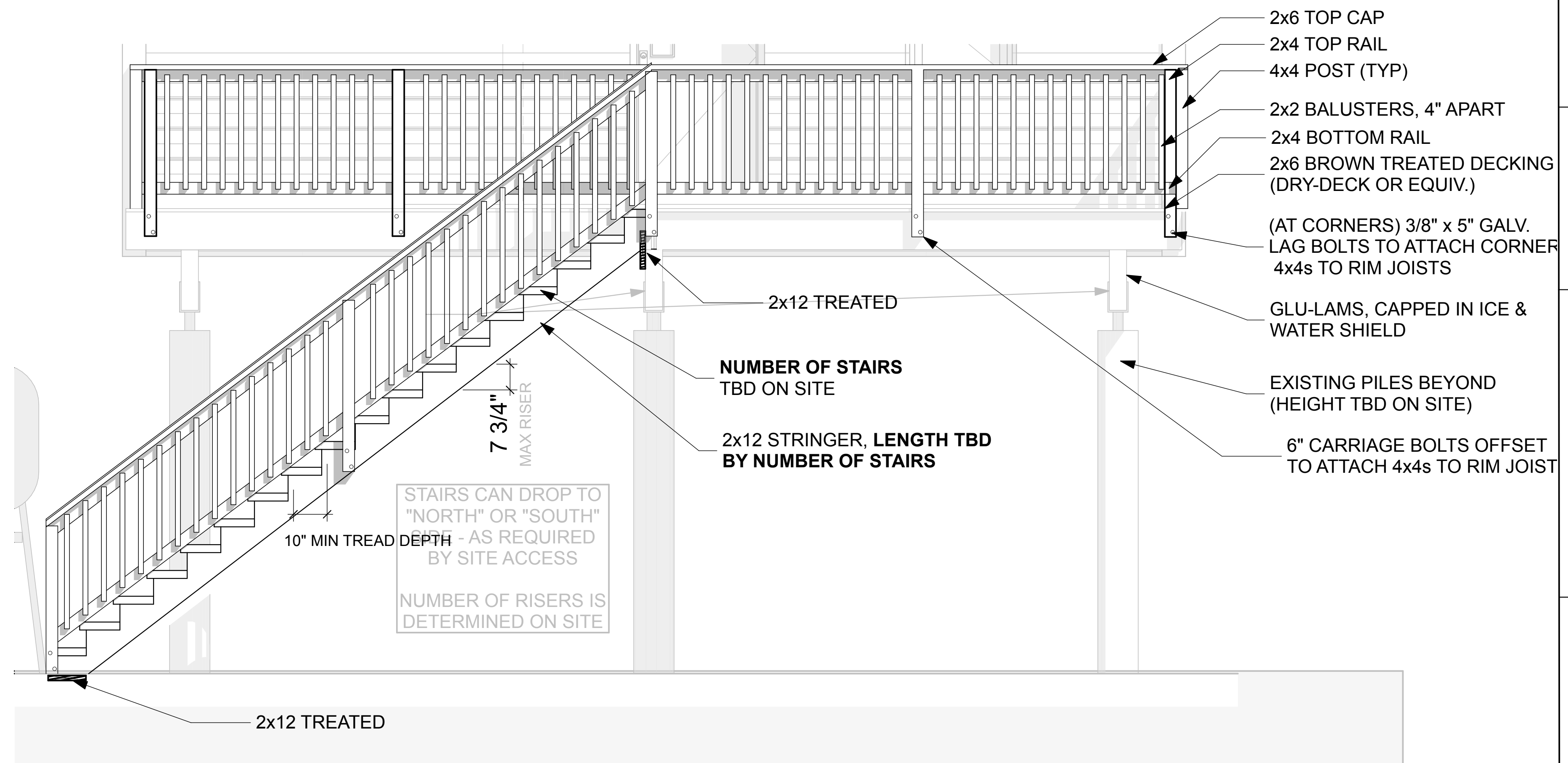
A3.4

SHEET 16 OF total

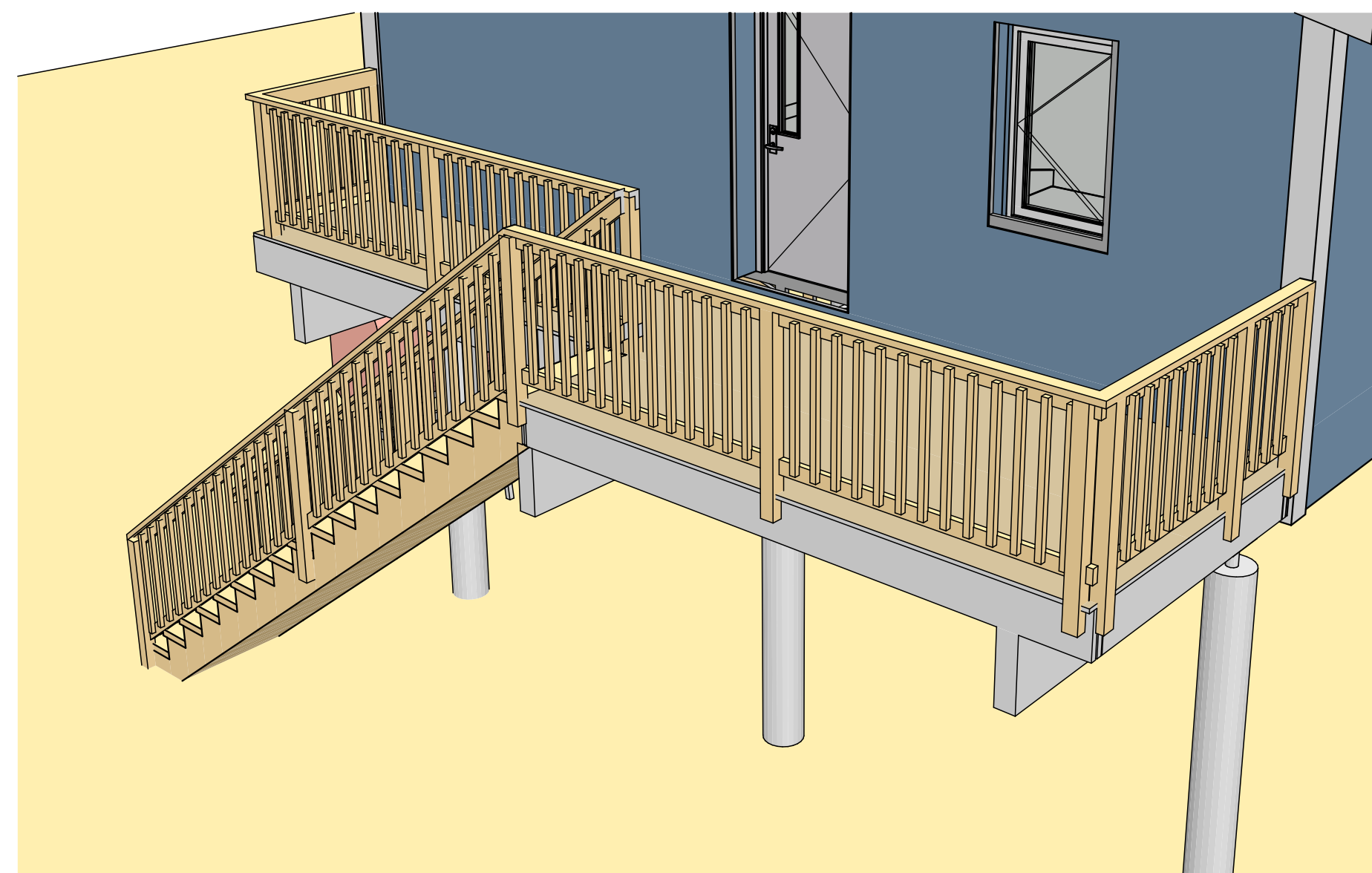




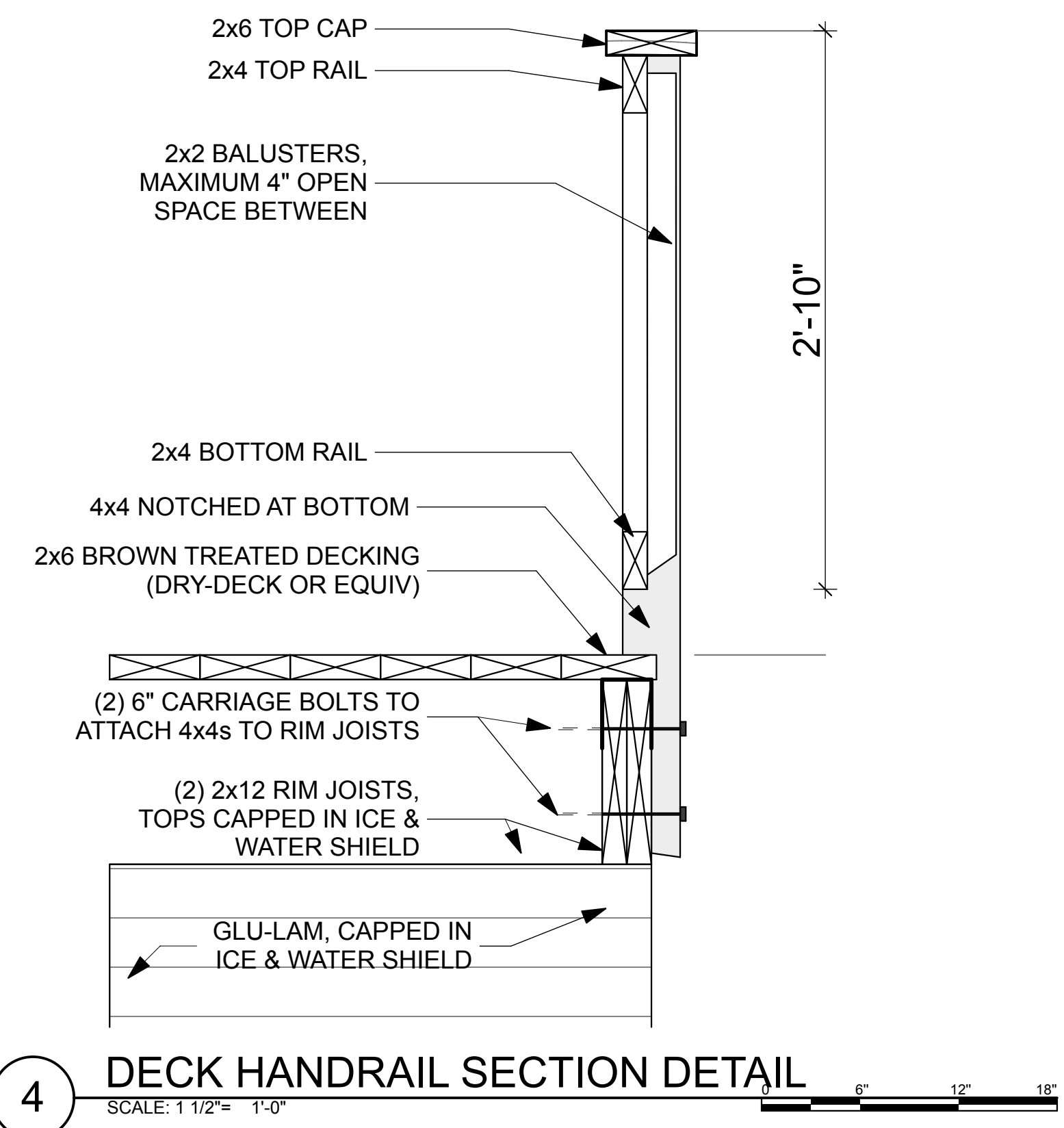
1 STAIR DETAIL PLAN  
SCALE: 1/2" = 1'-0"



2 STAIR DETAIL ELEVATION  
SCALE: 1/2" = 1'-0"



3 DECK PERSPECTIVE



4 DECK HANDRAIL SECTION DETAIL  
SCALE: 1 1/2" = 1'-0"

DESIGNED BY: CCHRC		
DRAWN BY: CD		
No.	Rev./Issue	Date

DESIGN DOCUMENTS  
NOT FOR CONSTRUCTION

NOTES:  
\*\* SOME WOOD FOR DECK TO BE TREATED LUMBER (SEE MATERIAL LIST) \*\*

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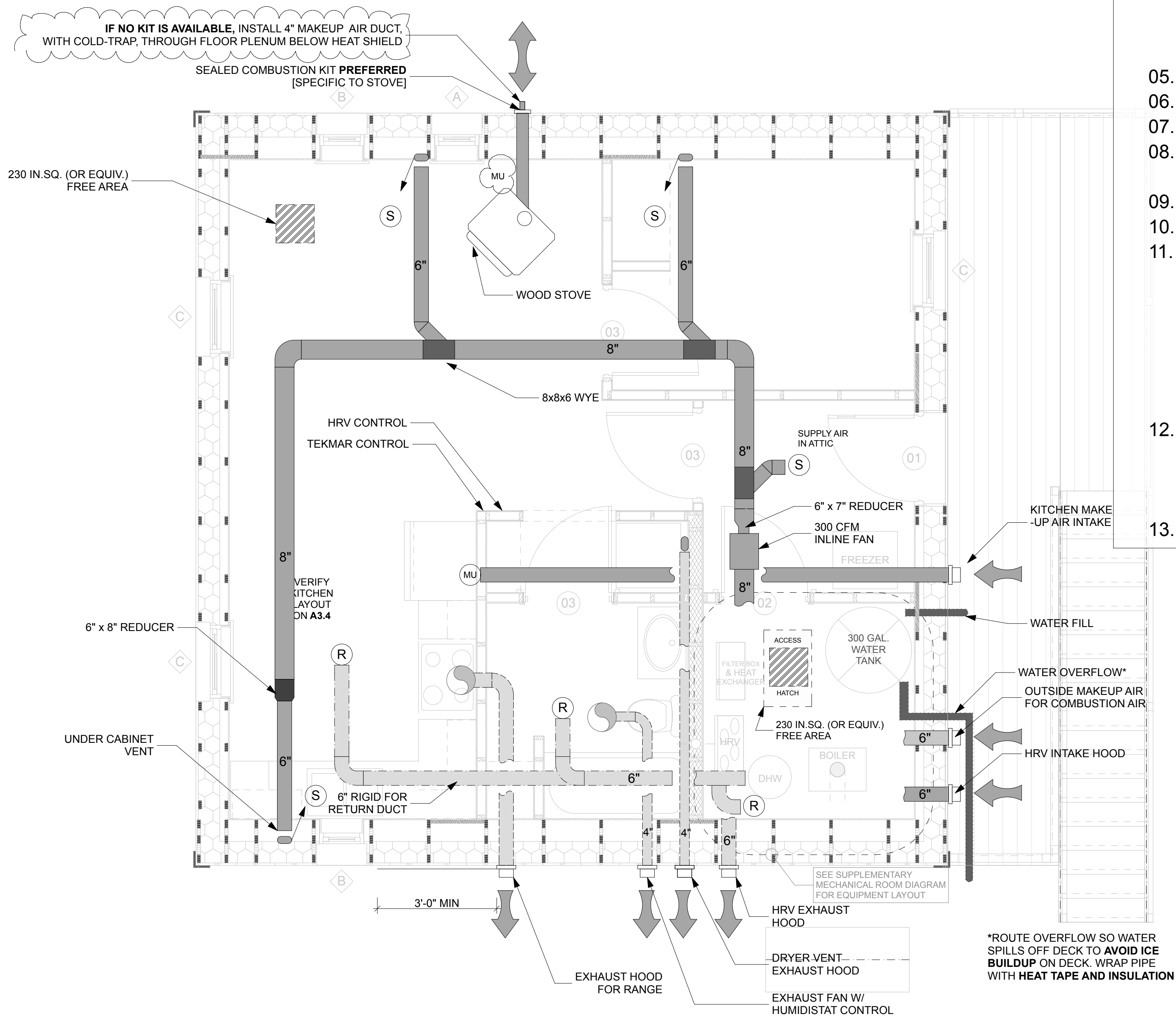
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PROJECT: INTEGRATED TRUSS ONE-BEDROOM GALENA MODEL  
Galena, Alaska  
ISSUED 08/12/2013  
Design Development

STAIR DETAILS

A3.5

SHEET 17 OF total



GENERAL NOTES:

- Exhaust and intake hoods should be at least 18' above ground or above snow drift height.
- Locate supply air registers approximately 12" from floor unless otherwise noted.
- Return air grilles in kitchen and bathroom shall be located in ceilings. Return air grille in mechanical room may tee off return air ducting.
- Ventilation requirements:
  - Close all exterior doors and windows.
  - Balance HRV per manufacturer's instructions.
  - With inline duct fan **OFF** and HRV **ON** at HIGHEST airflow setting (Speed Range 1 - see manufacturer's installation guide) and at MAXIMUM speed:
    - Ensure **supply** airflow is at least 100 CFM (regardless of whether the HRV is in "ventilate" or "recirculate" modes)
    - Adjust **return** air grilles in bathroom and kitchen to  $\geq 40$  CFM each.
    - Adjust **return** air grille in mechanical room to  $\geq 18$  CFM
    - Adjust **supply** air diffusers/louvers to  $\geq 18$  CFM
  - Re-balance HRV per manufacturer's instructions.
  - Ensure HRV fan speed is on **Speed Range 1**. (see manufacturer's installation guide)
- Put attic access (at least 30" x 22") in mechanical room to access inline fan.
- Install grille in mechanical room ceiling to allow airflow between attic and mechanical room.
- All ducting in attic shall be insulated with minimum R-4 insulation
- Kitchen makeup air: Drop down in wall and bring in behind refrigerator. Reverse P-trap for cold air trap.
- Locate HRV boost switch in bathroom.
- Locate HRV main controller in central living area.
- Flex Duct Installation
  - All flex duct shall be installed fully extended: DO NOT install in the compressed state or use excess lengths (using more than necessary to get from A to B, and leaving the excess curling around).
  - Avoid bedding ducts across sharp corners or incidental contact with metal fixtures pipes or conduits. Radius at centerline shall be no less than one duct diameter.
  - Requires support at no more than five foot intervals.
- Install cold air trap in:
  - Kitchen make up air duct.
  - Range hood exhaust duct.
  - Mechanical room outside make up air.
- All **exhaust** hoods shall have a **back draft damper** (unless specified otherwise).

MECHANICAL KEY

- CONCENTRIC VENT
- EXHAUST
- INTAKE
- DUCT IN-CEILING
- FAN
- VENT
- 6" OVAL DUCT
- MAKE UP

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No.	Rev./Issue	Date

DESIGN DOCUMENTS

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CONSTRUCTION

NOTES:

**IMC 2006 CODE NOTES:**  
501.2.1:  
**HRV EXHAUST** - MIN 3'-0"  
SEPARATION FROM OPERABLE  
WINDOWS, MIN 10'-0" FROM  
MECHANICAL INTAKES

504.4:  
**DRYER AND RANGE HOOD  
EXHAUST** - MIN 10'-0" FROM MECH  
INTAKES

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PROJECT: INTEGRATED TRUSS  
ONE BEDROOM  
GALENA MODEL

Galena, Alaska  
ISSUED  
08/12/2013  
Design Development

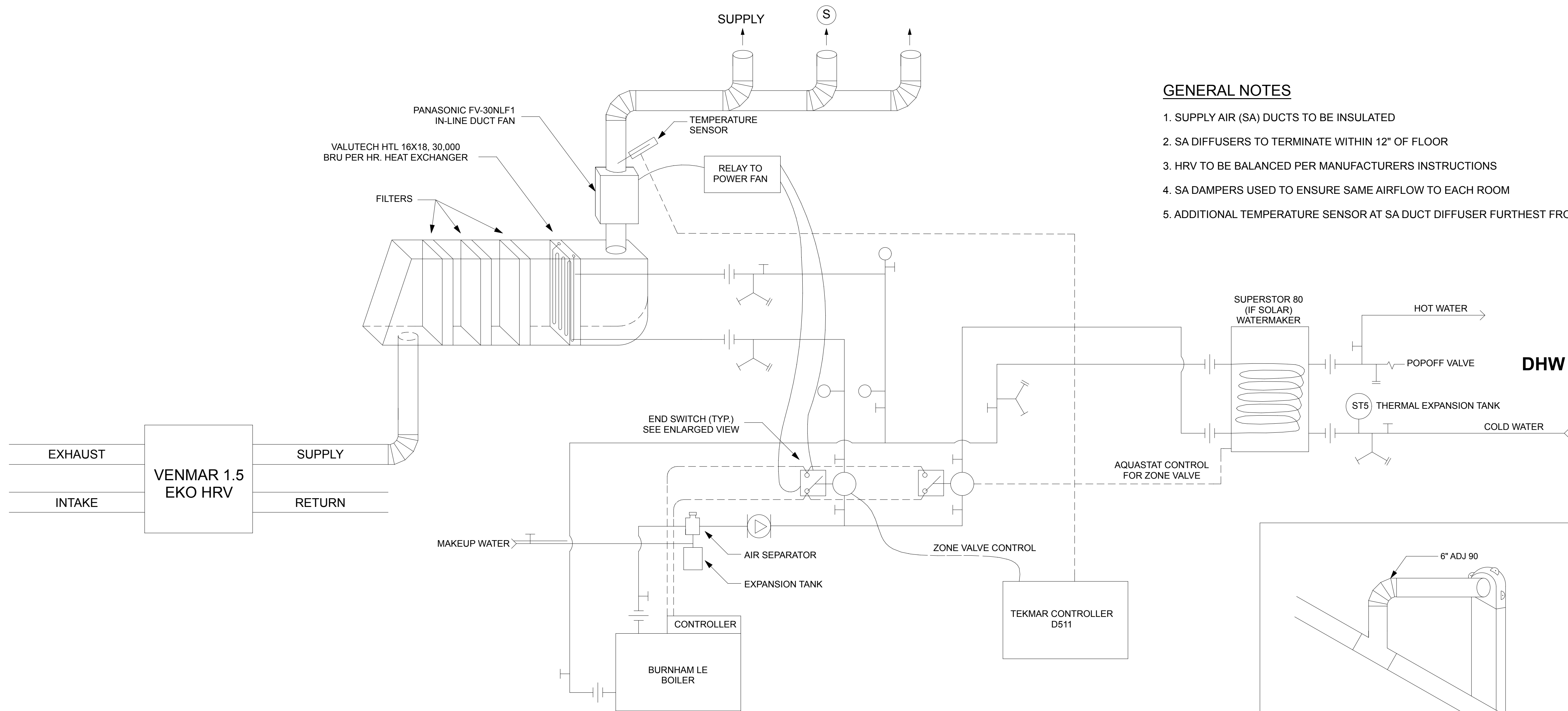
MECHANICAL PLAN

M1.0

SHEET 18 OF total

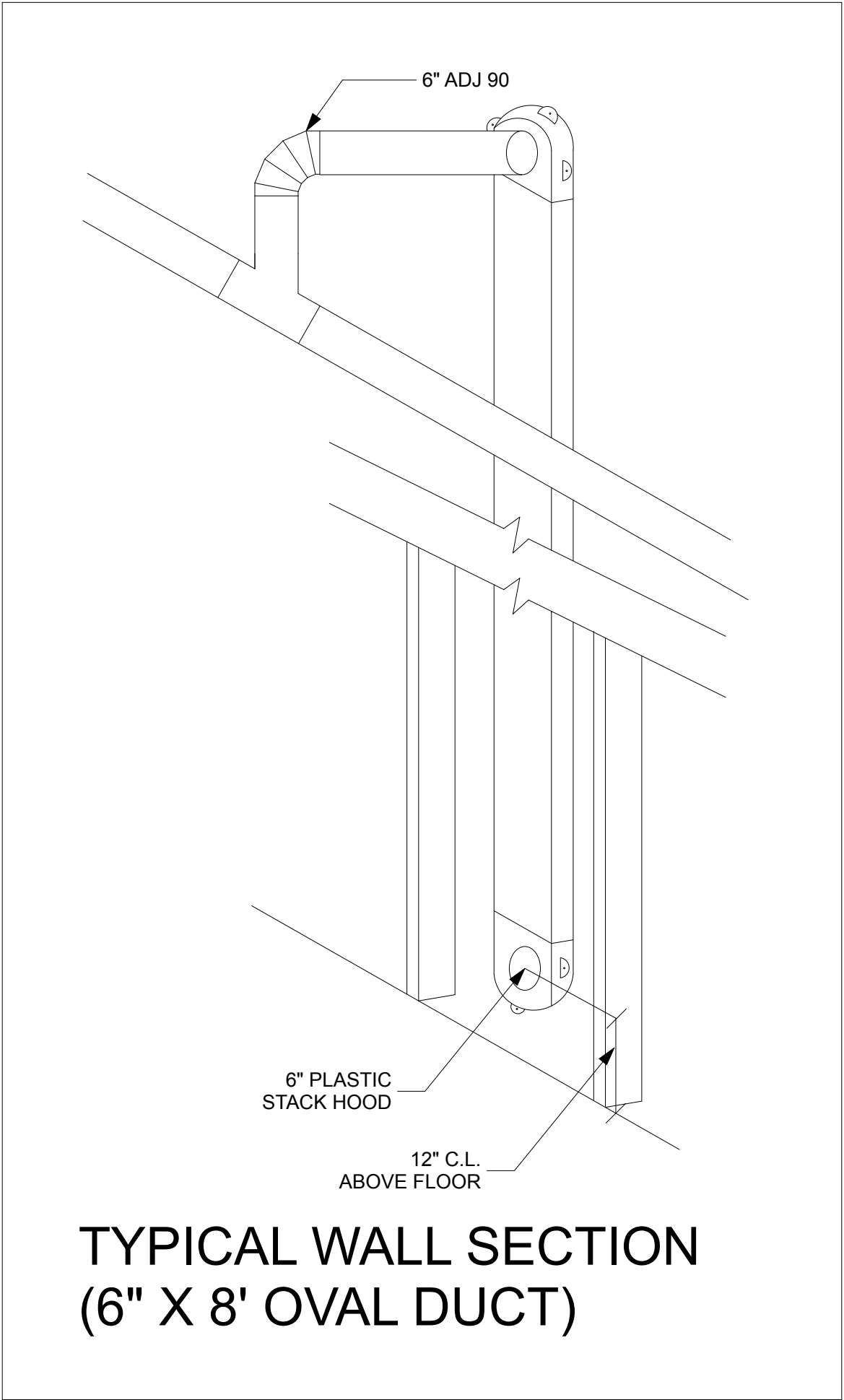




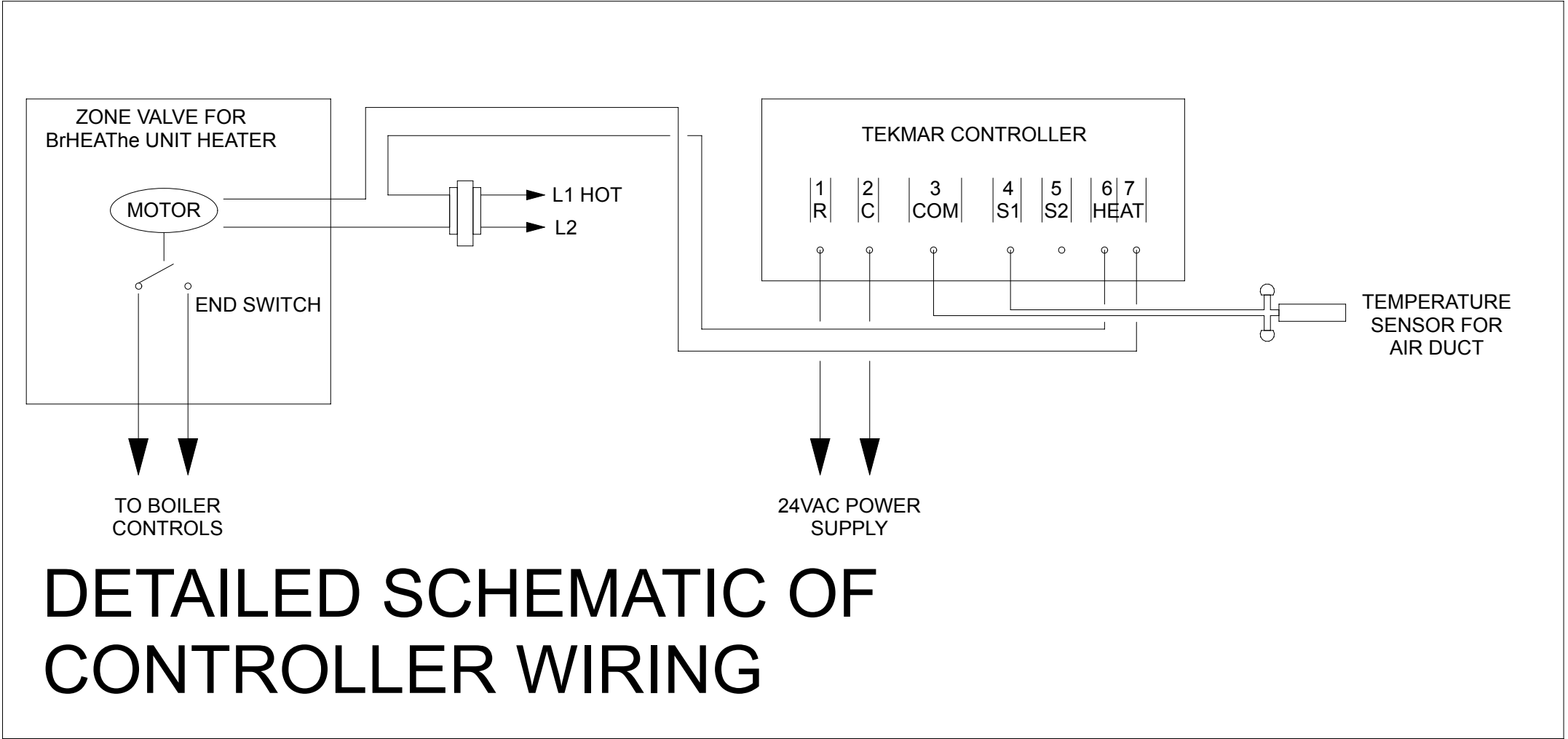
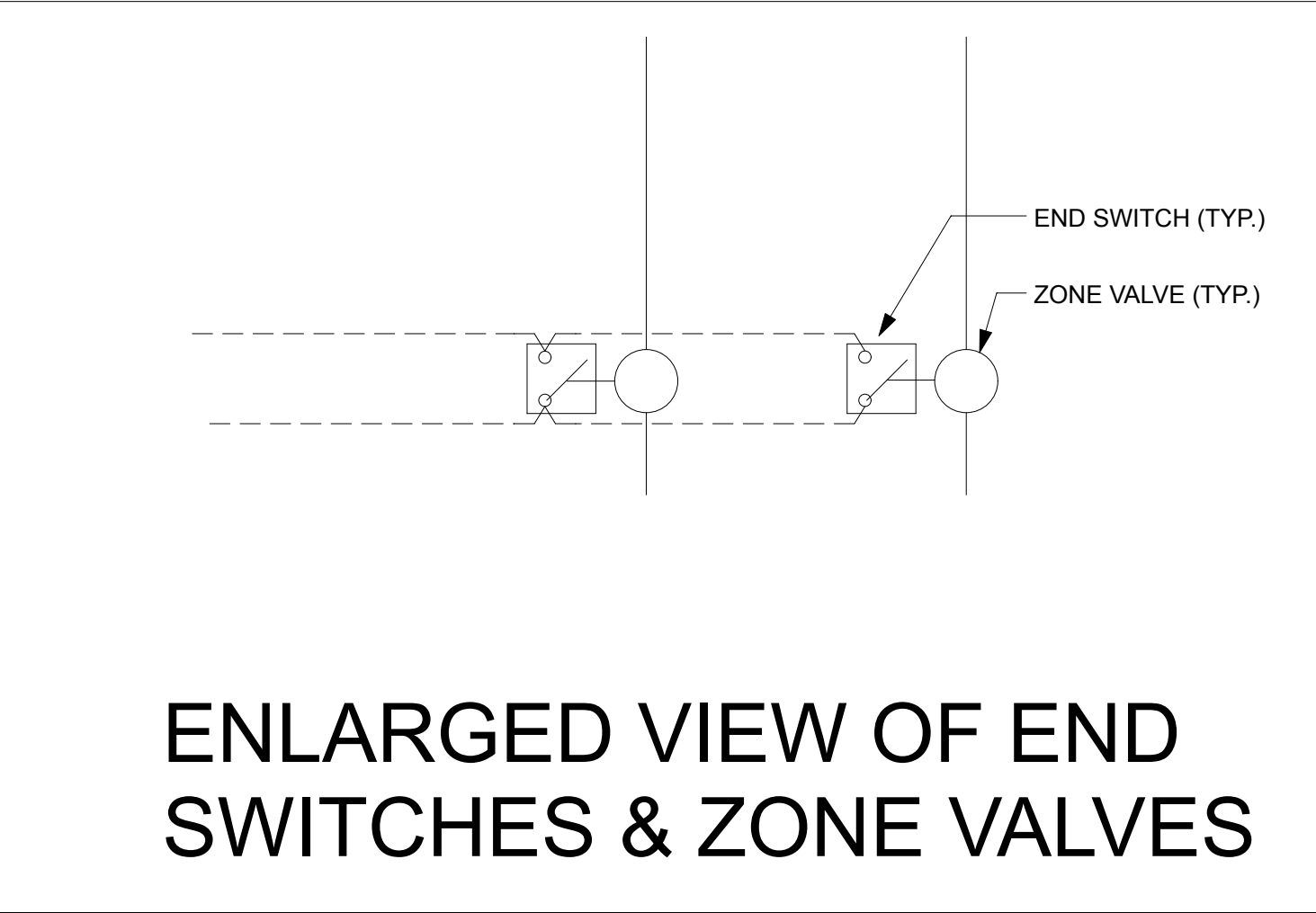


GENERAL NOTES

1. SUPPLY AIR (SA) DUCTS TO BE INSULATED
2. SA DIFFUSERS TO TERMINATE WITHIN 12" OF FLOOR
3. HRV TO BE BALANCED PER MANUFACTURERS INSTRUCTIONS
4. SA DAMPERS USED TO ENSURE SAME AIRFLOW TO EACH ROOM
5. ADDITIONAL TEMPERATURE SENSOR AT SA DUCT DIFFUSER FURTHEST FROM HRV



1 BrHEAThe SYSTEM DIAGRAM



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INTEGRATED TRUSS  
ONE BEDROOM  
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MECHANICAL  
SYSTEM

M1.1

SHEET 19 OF total


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PROJECT: INTEGRATED TRUSS  
ONE BEDROOM  
GALENA MODEL

Galena, Alaska  
ISSUED  
08/12/2013  
Design Development

ELECTRICAL

E1.0

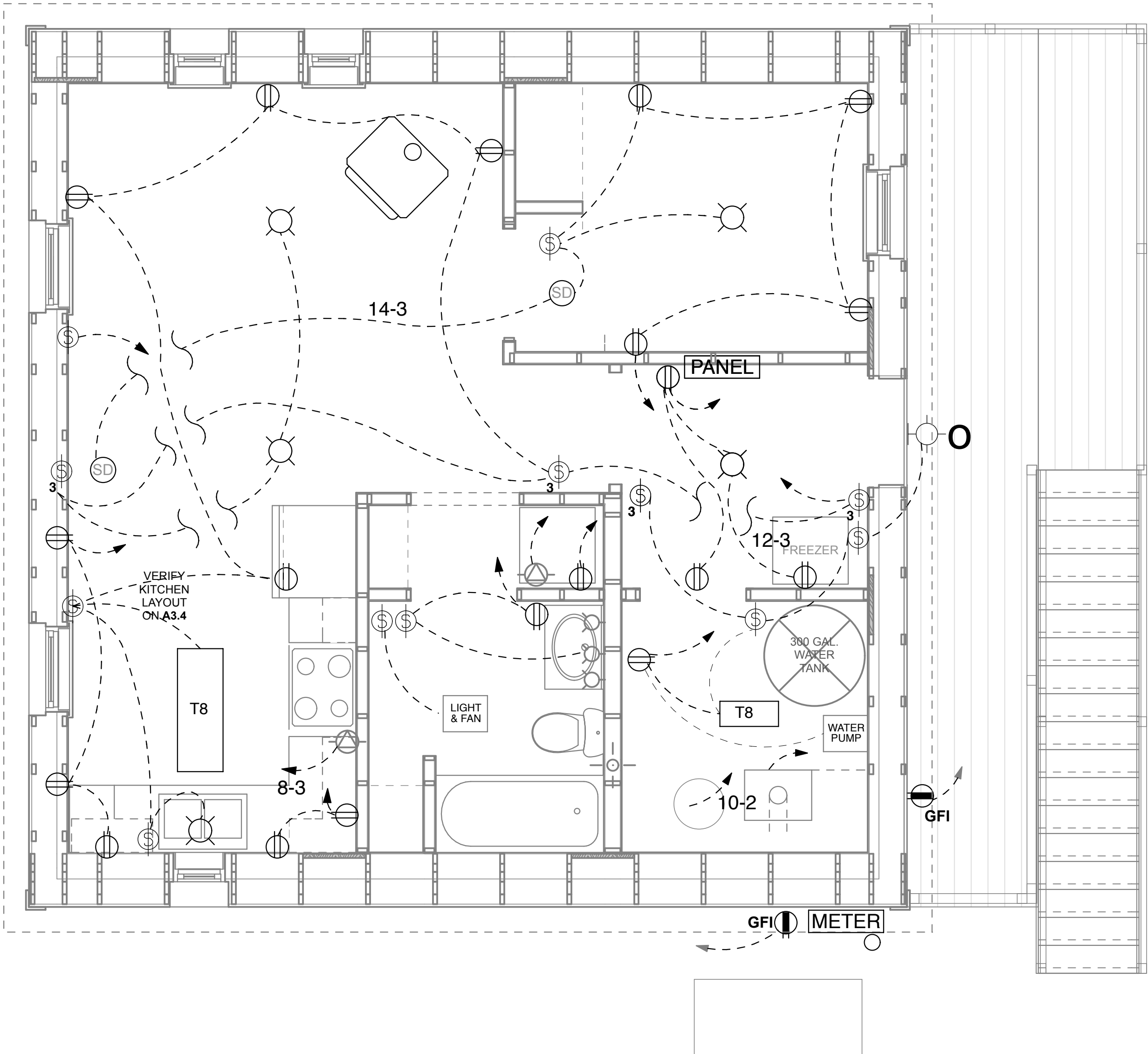
SHEET 20 OF total

KEY

- RECEPTACLE
- GFI RECEPTACLE
- 50A SERVICE
- SWITCH
- 3-WAY SWITCH
- SMOKE DETECTOR
- OUTDOOR LIGHT
- SCONCE LIGHT
- T8 T8 FIXTURE
- SURFACE MOUNT LIGHT
- R RECESSED CAN LIGHT

THREE BEDROOM  
PANEL LAYOUT

- |                    |               |
|--------------------|---------------|
| 01 BEDROOM 1       | 02 KITCHEN    |
| 03 BEDROOM 2 & 3   | 04 KITCHEN    |
| 05 LVG RM &        | 06 BOILER     |
| 07 HBH EXT         | 08 HRV & PUMP |
| 09 WASHER          | 10 DHW        |
| 11 DRYER           | 12 DHW        |
| 13 DRYER           | 14 RANGE      |
| 15 FREEZER & ENTRY | 16 RANGE      |



2 ELECTRICAL PLAN

SCALE: 3/8" = 1'-0"



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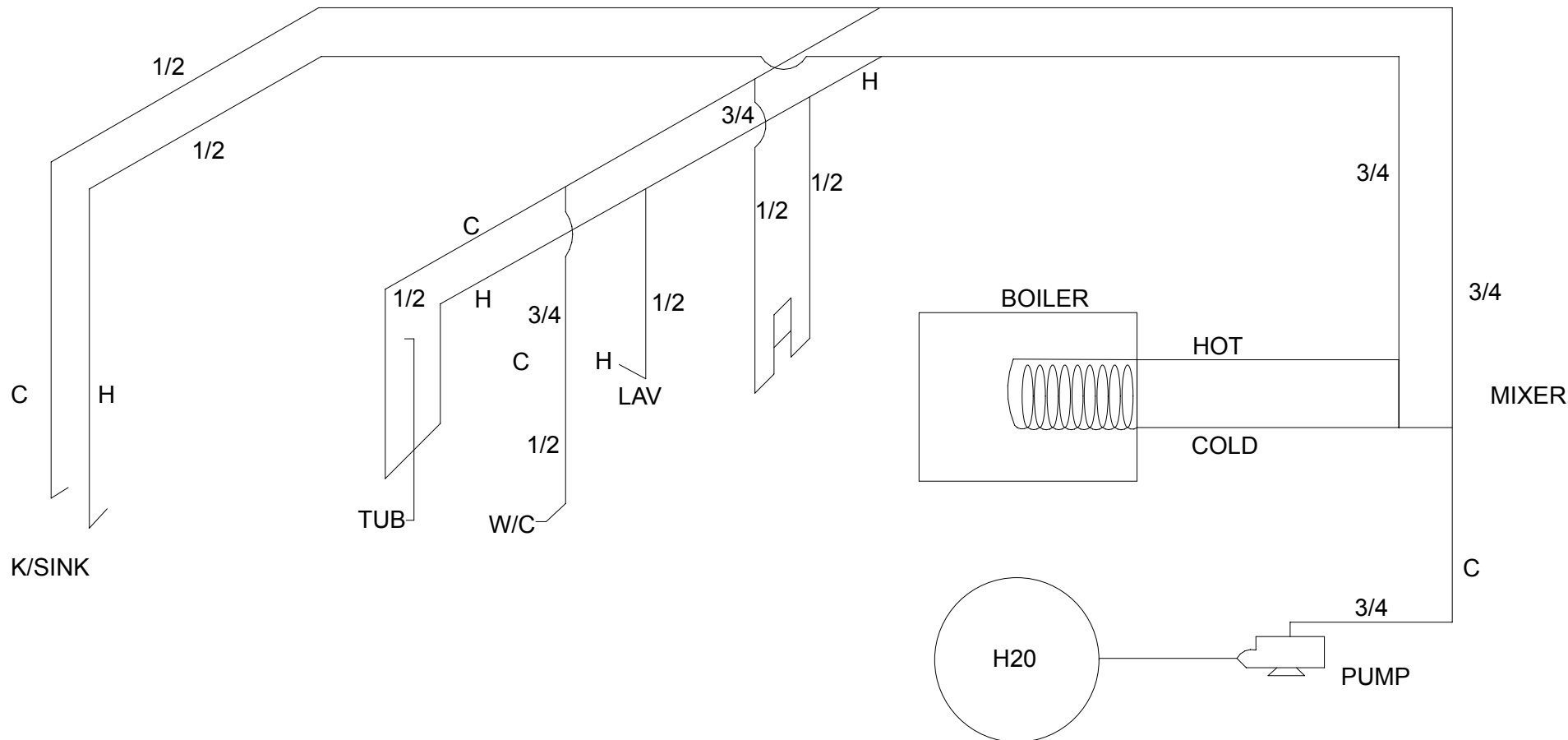
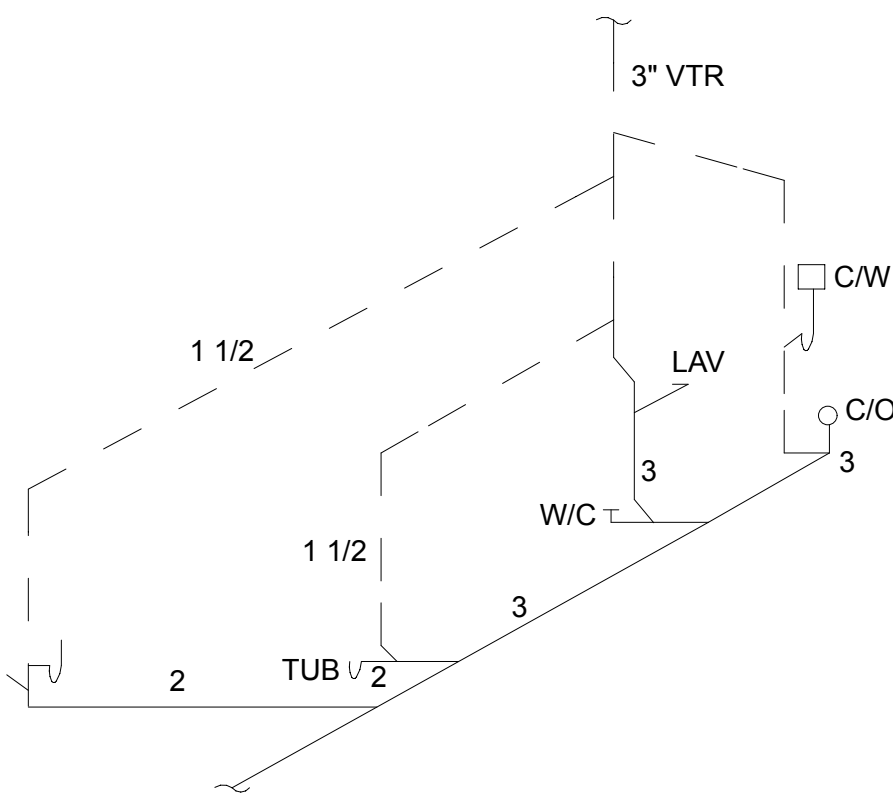


PROJECT:  
INTEGRATED TRUSS  
W/ ONE BEDROOM  
GALENA MODEL  
Galena, Alaska  
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PLUMBING PLAN

P1.0

SHEET 21 OF total



2

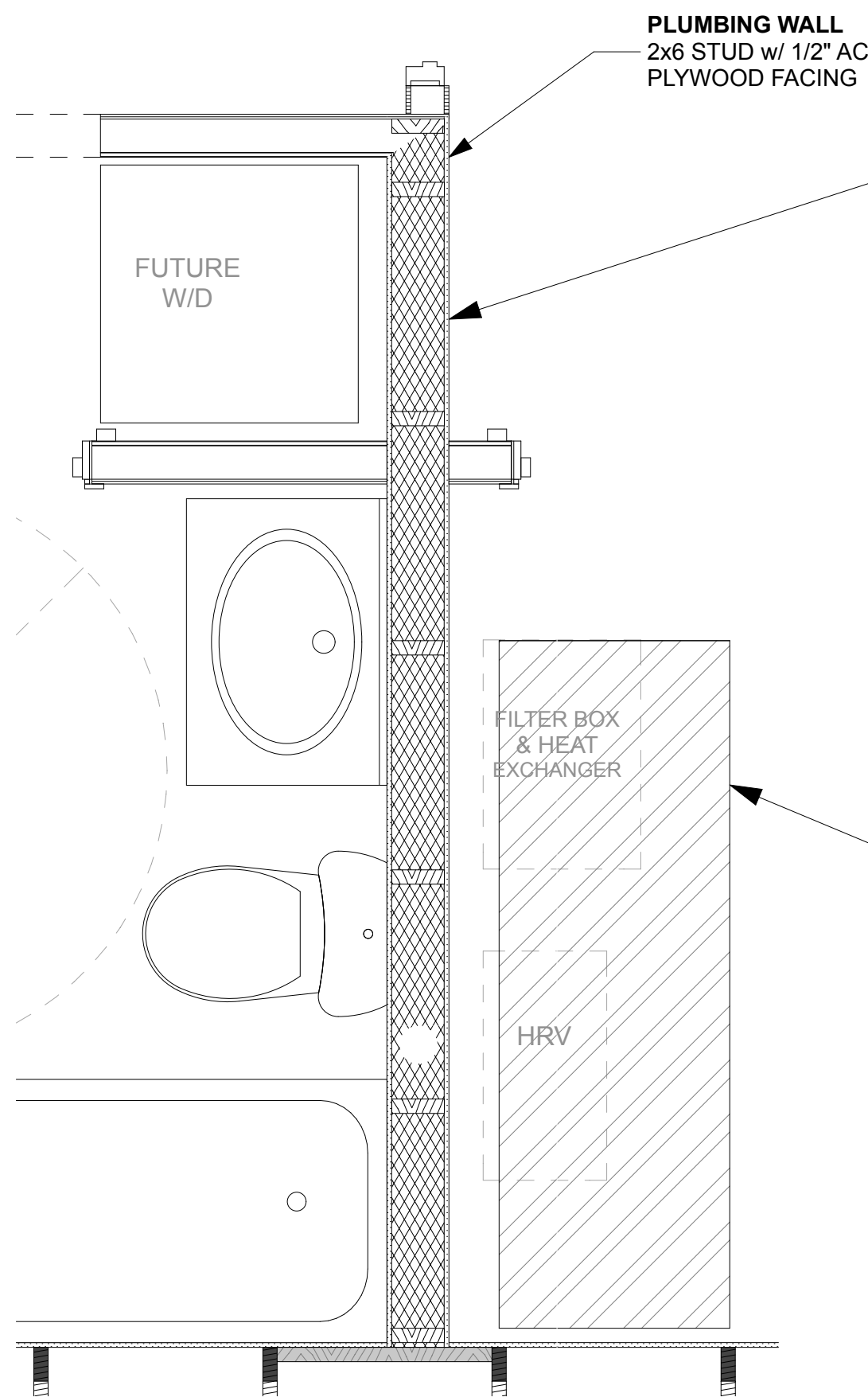
DOMESTIC WATER VENTING

NOT TO SCALE

1

POTABLE WATER

NOT TO SCALE



3" CLEAN OUT IN WALL FOR SERVICING  
MAIN SEWER DRAIN

**NOTE:**

HATCH IS CREATED BY SCREWING  
DOWN THIS PORTION OF SUBFLOOR  
TO BE EASILY REMOVED IF REQ'D

PLUMBING MAIN WASTE LINE ACCESS HATCH,  
HATCH ACCESS RUNS THE ENTIRE WIDTH  
BETWEEN FLOOR TRUSSES

3

INFLOR PLUMBING ACCESS HATCH LOCATION

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



4

IN FLOOR PLUMBING ACCESS SECTION

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



**NOTES:**

1. USE 6 MIL POLY TO MAKE  
COMPLETE ENVELOPE THAT RUNS  
THE LENGTH OF THE ENTIRE  
PLUMBING WALL AND THE WIDTH  
BETWEEN FLOOR TRUSSES FOR  
LEAK PROTECTION

2. URETHANE **MAY BE APPLIED**  
**FROM BELOW** AGAINST  
UNDERLAYMENT. ALLOW PIPES TO  
BE OPEN TO CONDITIONED SPACE  
BY CREATING A CHASE

SUBFLOOR SCREWED  
TO FLOOR TRUSSES  
FOR EASY REMOVAL

3 1/2" MAIN WASTE PIPE

6MIL POLY