



Free 20' x 30' Pole Barn Plan

Free vs. Premium Plan: What's the Difference?



We offer both free and premium versions of our detailed shed plans, designed to fit your needs and budget. Check out the table below to see the key differences and choose the plan that's right for you:

Features	Free Plan	Premium Plan
Steps Count	7	10
Illustrations per Step	Limited	Every Step
Print Ready Format	X	✓
Step-by-Step Instructions	Basic	Comprehensive
Full Materials & Cutting List	X	✓
Additional Illustrations	X	✓
Additional Blueprints	X	✓
Tools List	X	✓
Fastening Elements List	X	✓
Technical Support	X	✓

[Try Premium Risk-Free](#)

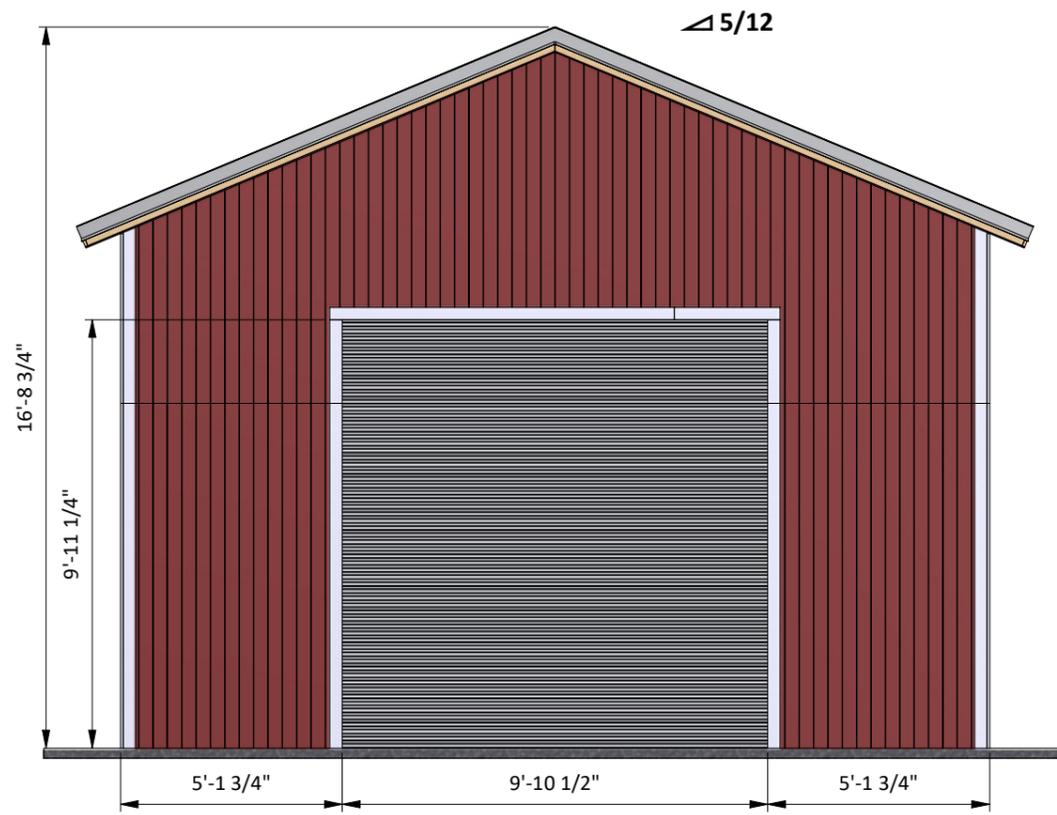
60-day refund policy with no questions asked.

20' x 30' Pole barn shopping list

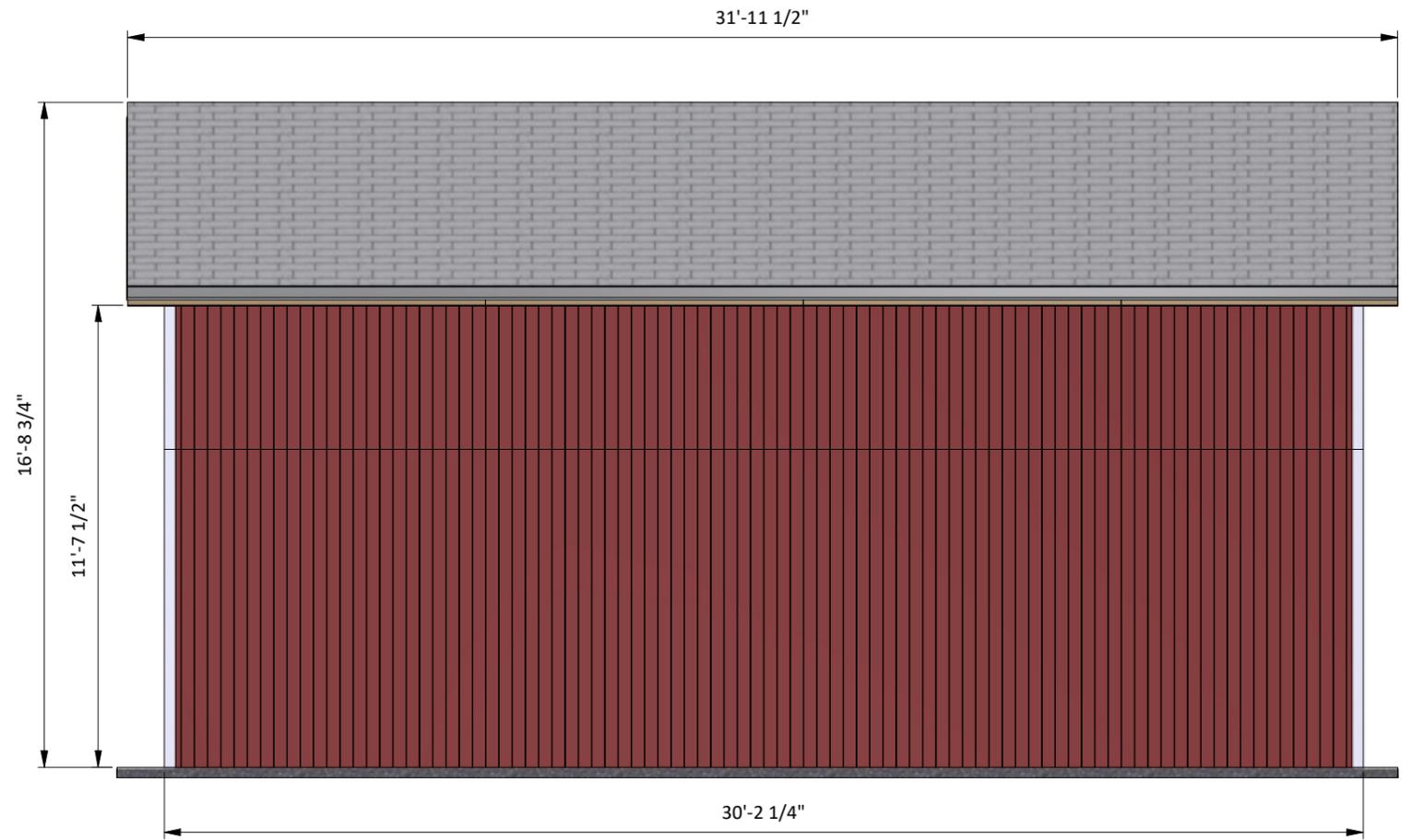
Material	Unit	Qty	Size
End Roof Truss 5/12 Pitch	pcs	2	20'
Inner Roof Truss 5/12 Pitch	pcs	14	20'
Lumber (1 x 4)	pcs	18	8'
Lumber (1 x 6)	pcs	6	8'
Lumber (1 x 6)	pcs	2	10'
Lumber (1 x 8)	pcs	4	8'
Lumber (2 x 4)	pcs	2	10'
Lumber (2 x 6)	pcs	30	8'
Lumber (2 x 6)	pcs	48	10'
Lumber (2 x 6)	pcs	2	20'

Size & Dimensions

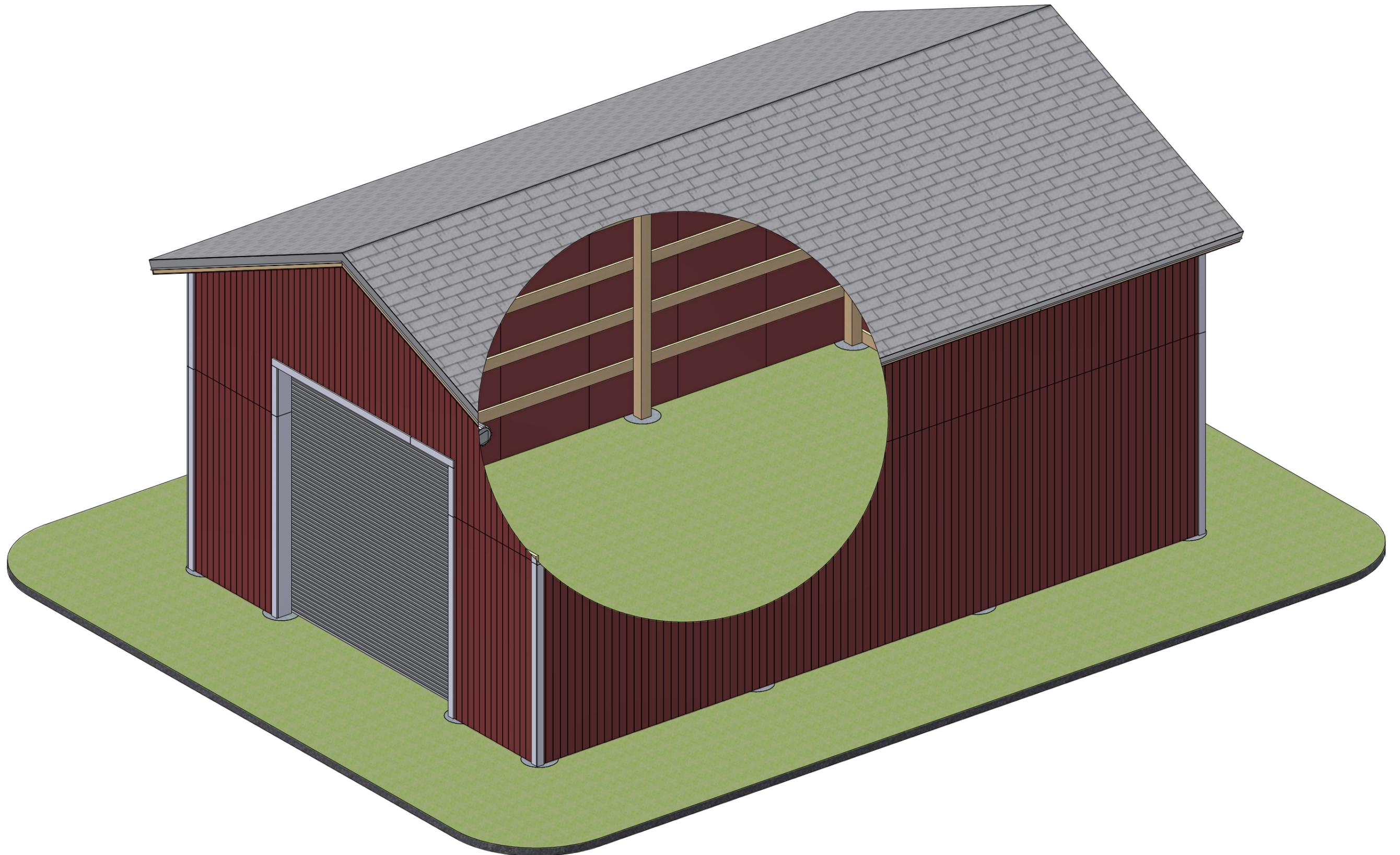
front/back



side walls



Isometric view

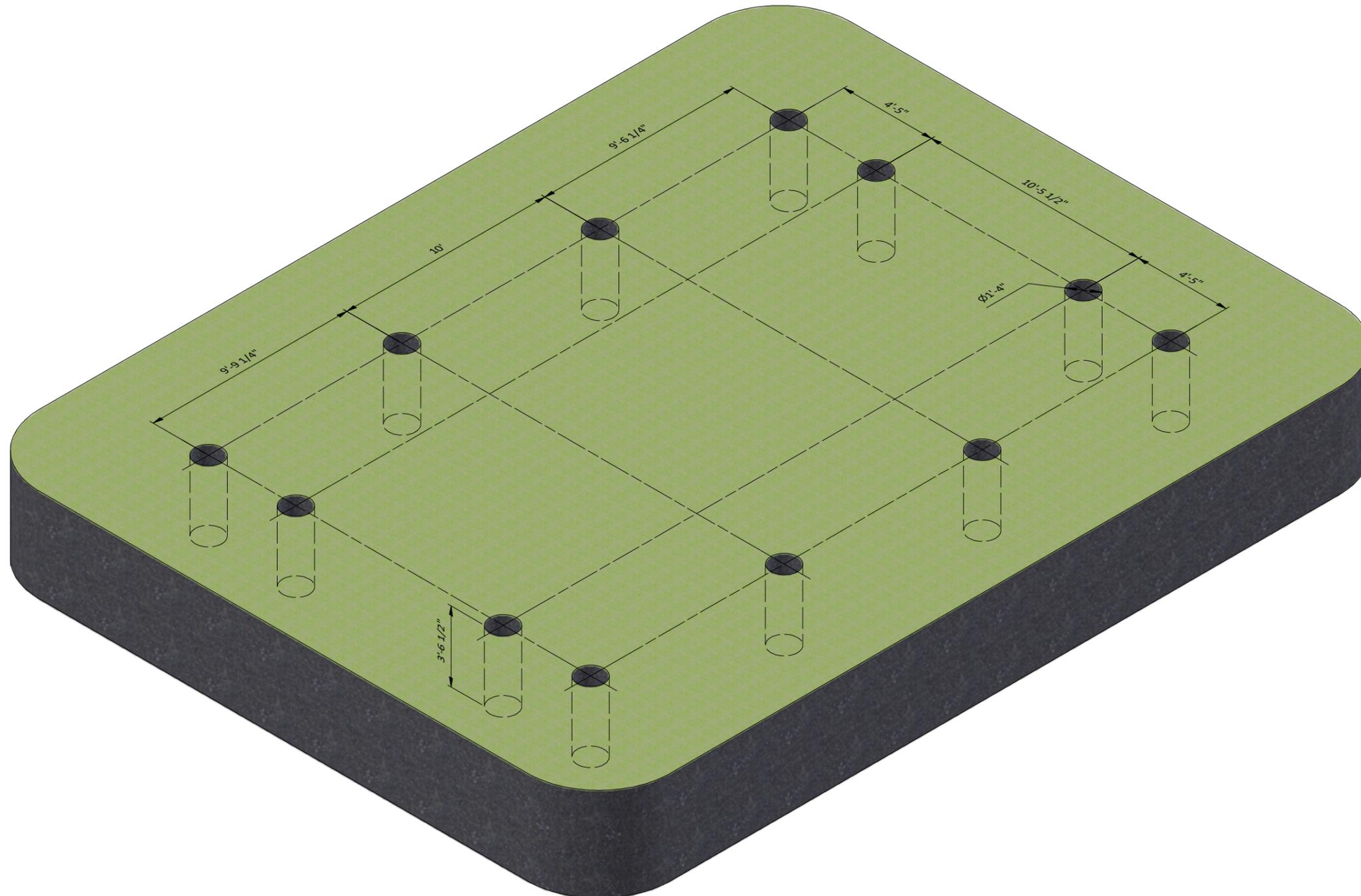


STEP 1

Foundation Preparation

1.1 Clear the area where you want to build the garage and layout for the foundation. Use the illustration below as a guide.

1.2 For the foundation, dig the pits at least 16" diameter and preliminary 4' deep (use your local frost depth requirement if it's need to be deeper).



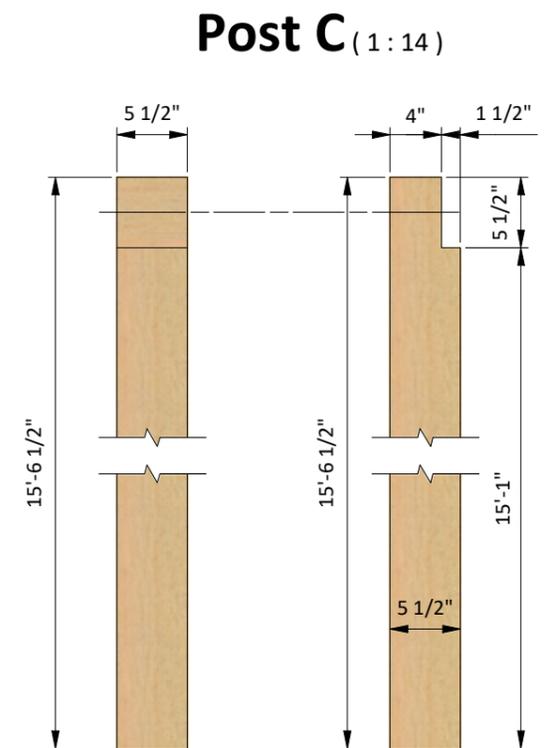
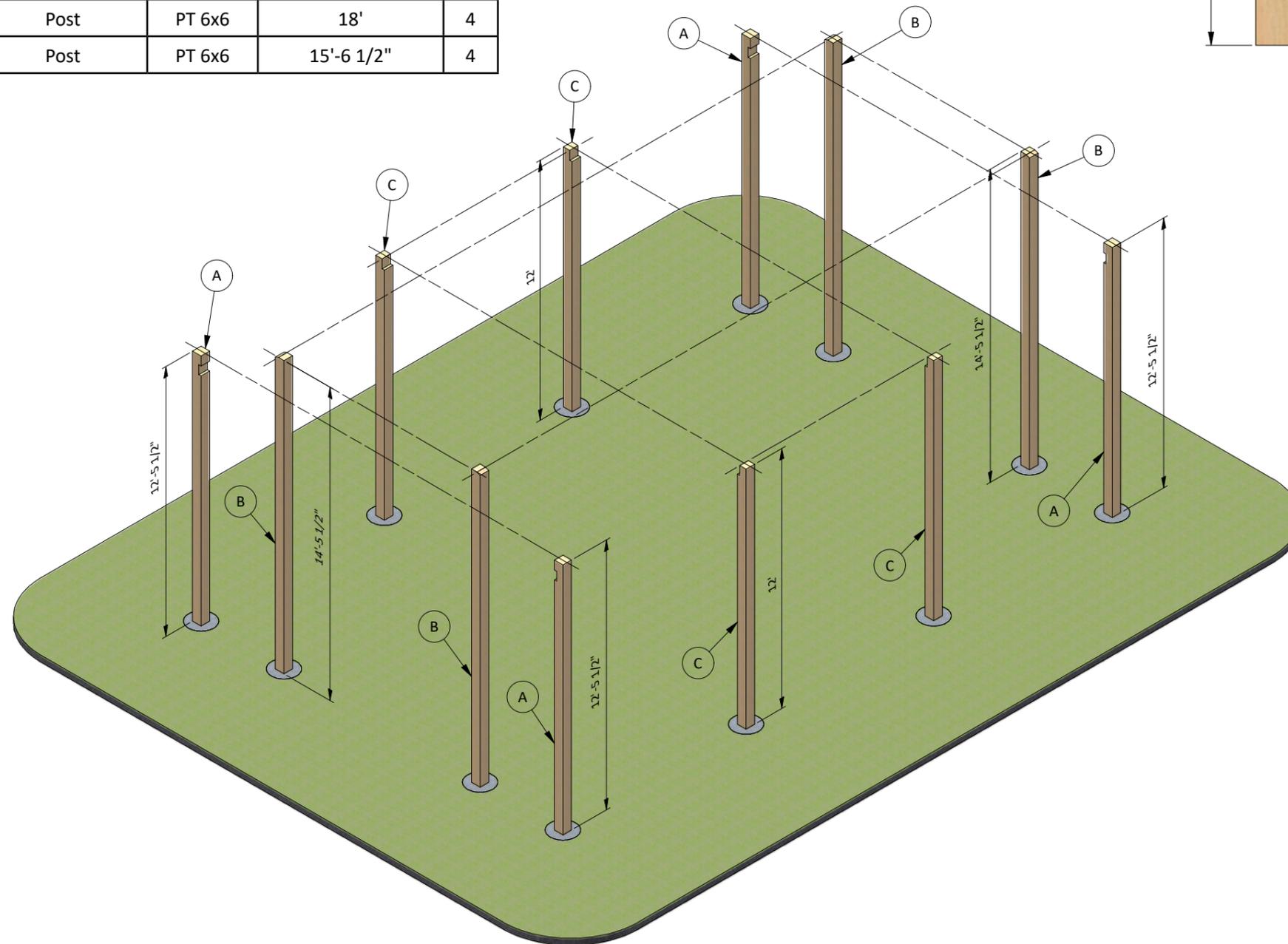
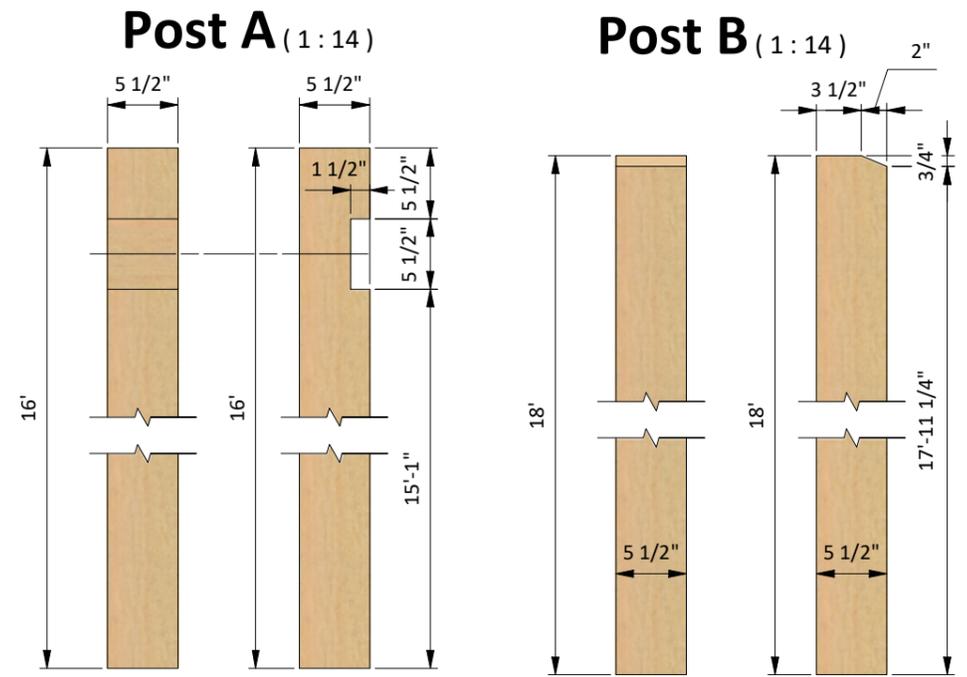
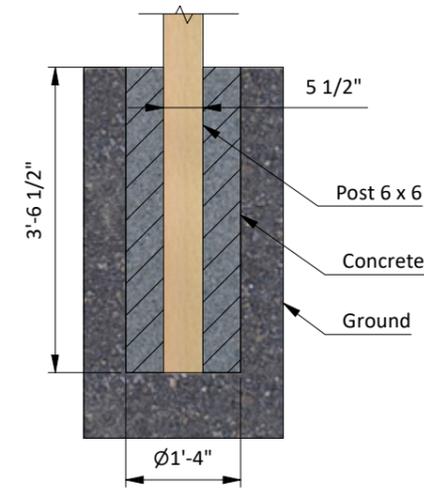
STEP 2

Installation of Wall Posts

2.1 Using 6x6 pressure treated lumber, prepare wall posts using the drawing below as a reference. You will need to prepare beams in necessary quantity according to the cutting list below. As an alternative, you can use 2x6 wood connected in sets of three.

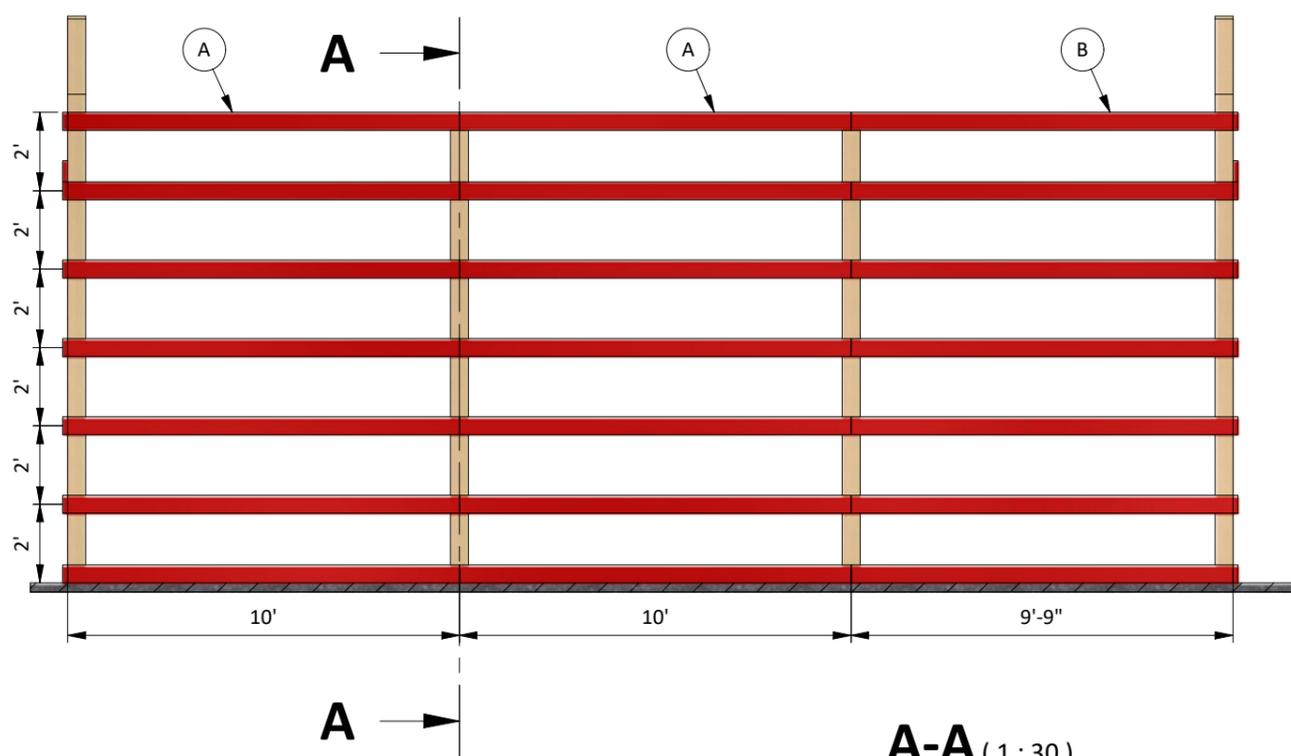
2.2 Posts should be inserted into pits and fixed in a vertical position with temporary cross braces. The free space around the posts in the pits should be filled to ground level with concrete and left to cure, or harden. As curing times can vary between brands, please refer to the product packaging for the recommended curing times.

Pos	Description	Material	Dimension	Qty
A	Post	PT 6x6	16'	4
B	Post	PT 6x6	18'	4
C	Post	PT 6x6	15'-6 1/2"	4

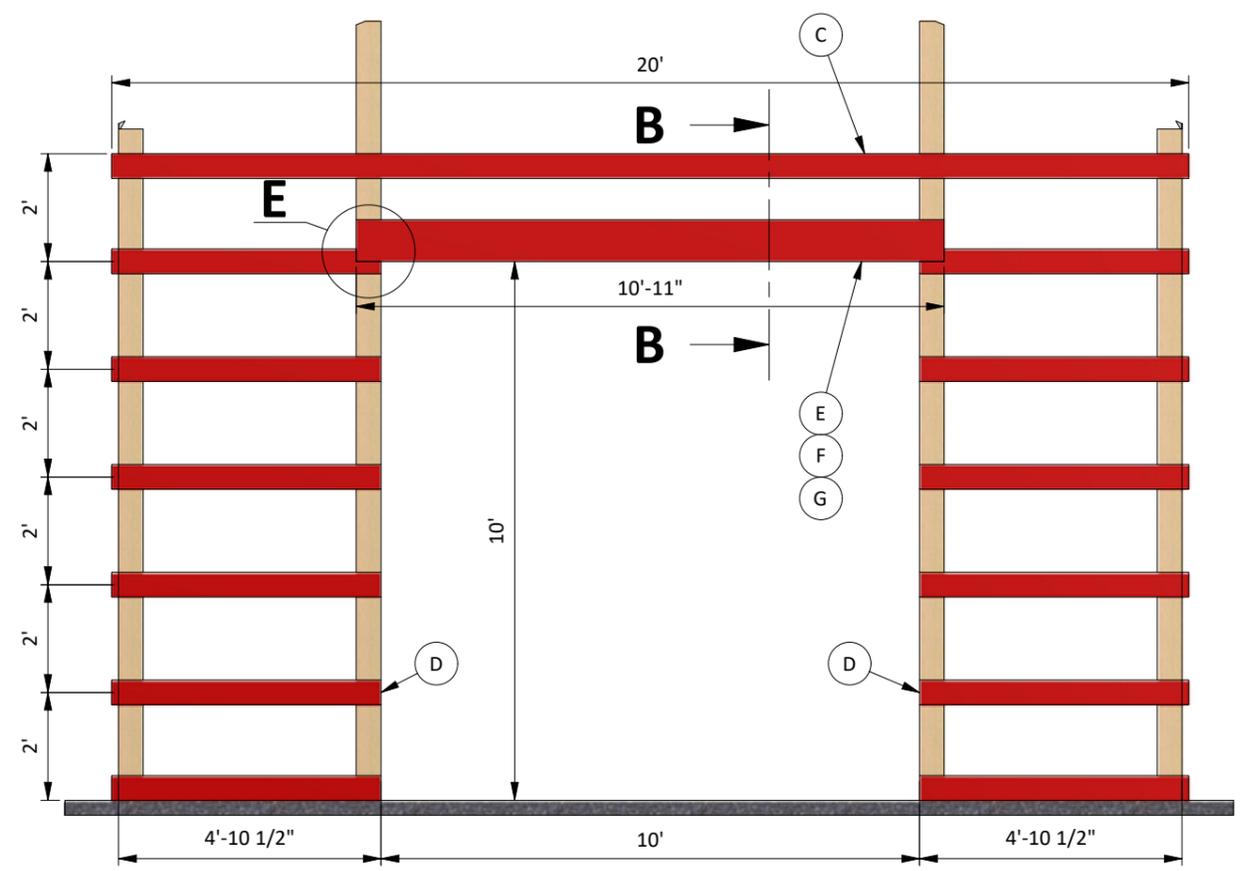


STEP 3

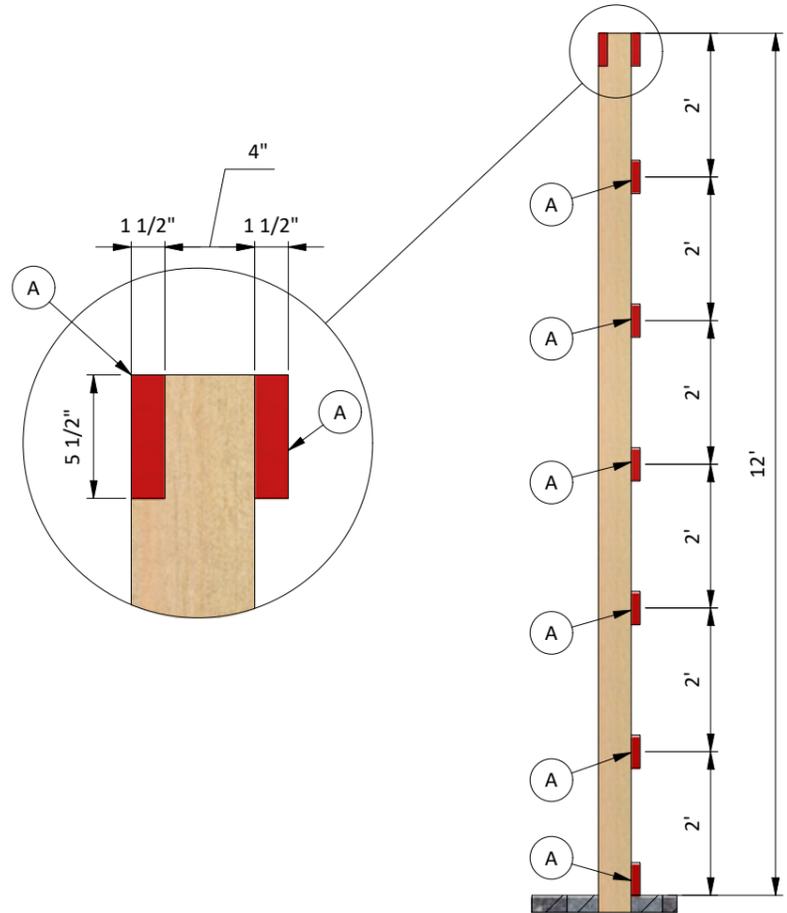
Side wall (1:55)



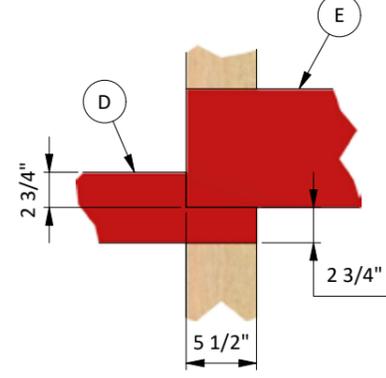
Front wall (1:40)



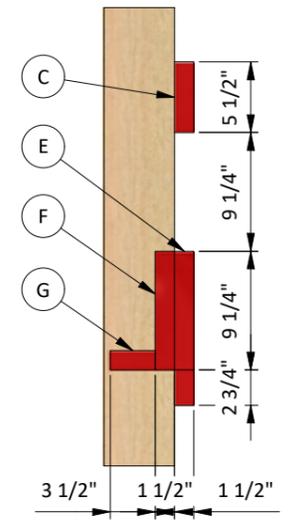
A-A (1:30)



E (1:14)



B-B (1:14)



STEP 4

Assemble the Roof Frame

4.1 Lift onto the roof and install the trusses according to the diagram below. Connect them to the top beams with H16 ties. If necessary use temporary joist for the fixation in vertical position.

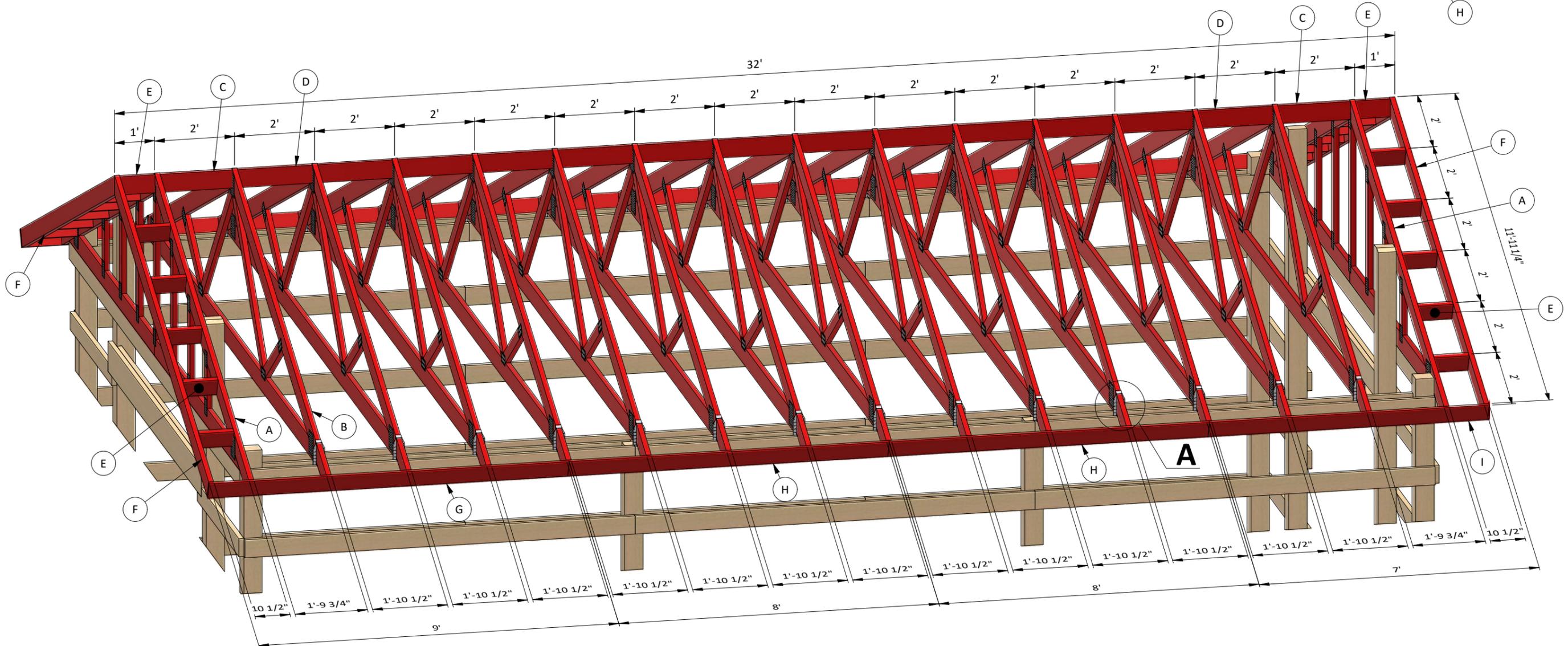
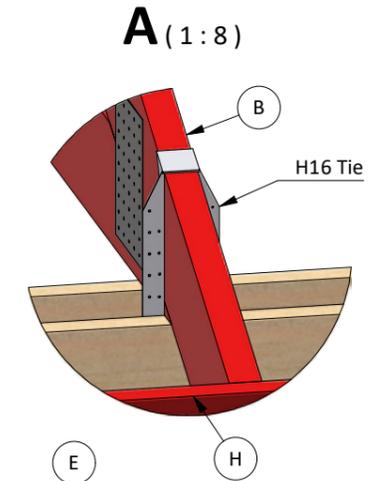
4.2 Using 2x6 lumber prepare and install ridge boards using the drawing below as a reference. You will need to prepare beams in necessary quantity according to the cutting list below.

4.3 Using 2x6 lumber prepare lookouts and overhang rafters and install them from the front and back walls.

4.4 Using 1x6 lumber prepare and install fascias. You will need to prepare beams in necessary quantity according to the cutting list below.

4.5 Connect the beams with #10 x 1", #10 x 2", #10 x 3" wood screws.

Pos	Description	Material	Dimension	Qty
A	End Roof Truss 5/12 Pitch	-	20'	2
B	Inner Roof Truss 5/12 Pitch	-	20'	14
C	Ridge board	2x6	1'-9 3/4"	2
D	Ridge board	2x6	1'-10 1/2"	13
E	Ridge board/Lookout	2x6	10 1/2"	22
F	Overhang rafter	2x6	11'-11 1/4"	4
G	Fascia	1x6	9'	2
H	Fascia	1x6	8'	4
I	Fascia	1x6	7'	2



STEP 5

Roof Sheathing Installation

5.1 Prepare metal drip edge with 6" width. You will need 120' to cover all the perimeter.

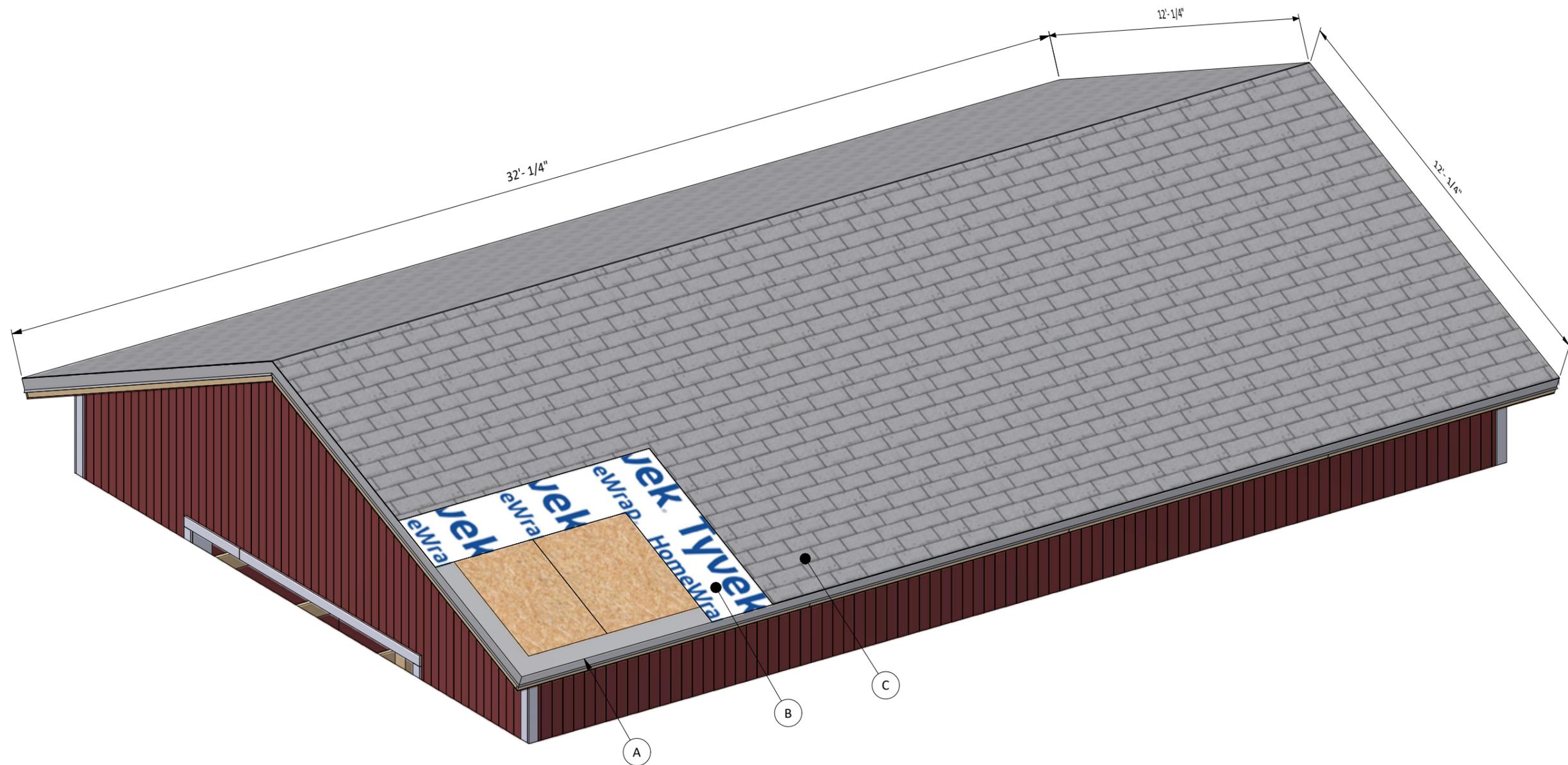
5.2 Place the drip edge down, aligning it to the plywood edge. Use 2" nails to secure the first drip edge. When you place the next drip edge piece, it should overlap the first by an inch.

5.3 You will need 800 Sq Ft of building paper and asphalt shingle roofing.

5.4 Cover the plywood and drip edge with building paper. Try to install sheets with 1" overlapping. Use 2" nails to secure the sheets.

5.5 Install asphalt shingle roofing using an industrial stapler.

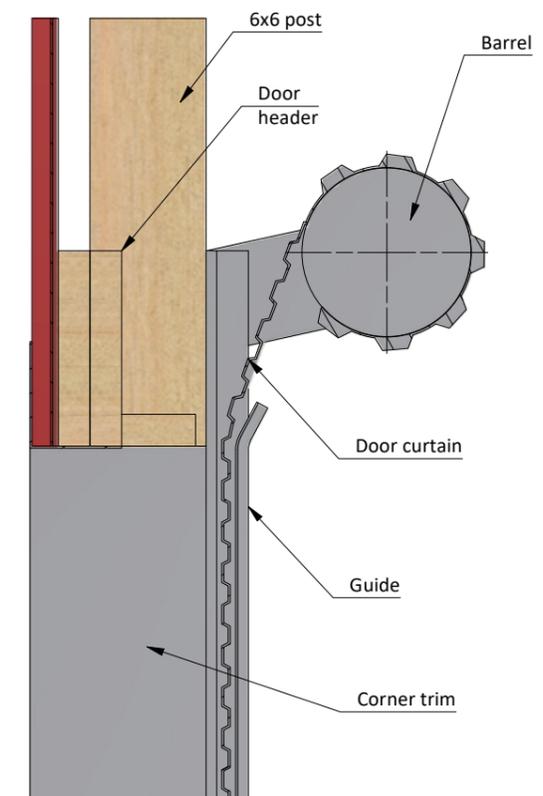
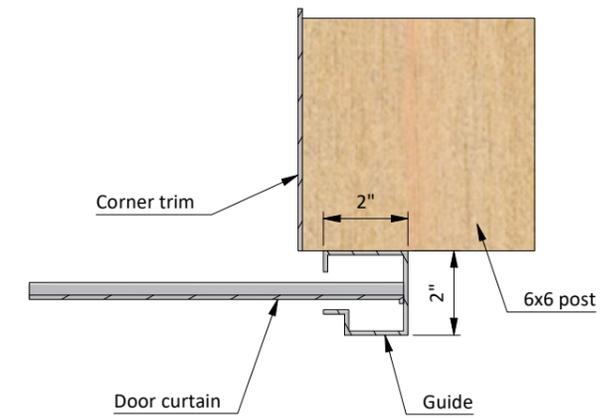
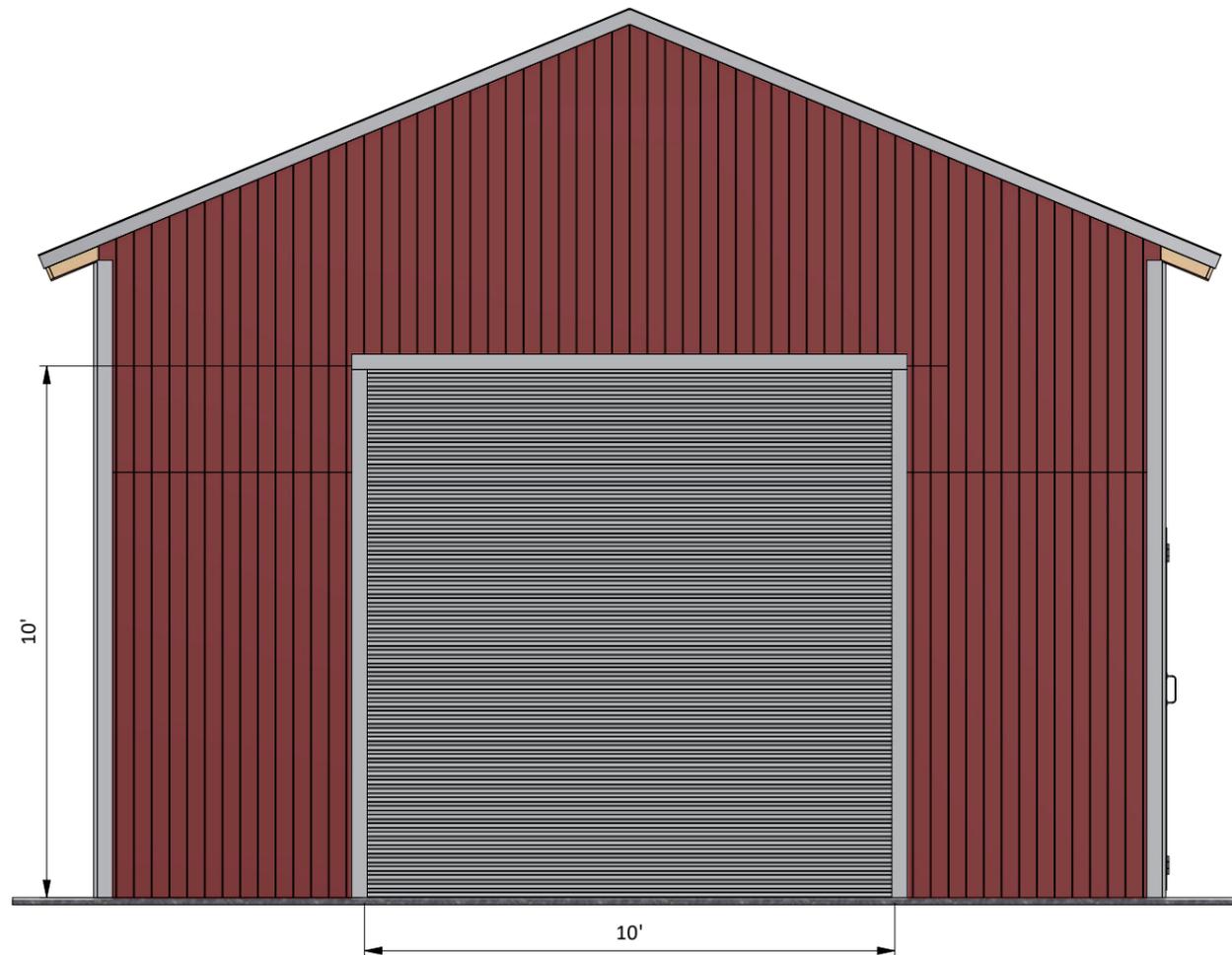
Pos	Description	Material	Dimension	Qty
A	Metal drip edge	6"	-	120
B	Roof sheathing	Building paper	-	800 square ft
C	Roof sheathing	Asphalt shingle roofing	-	800 square ft



STEP 6

Assemble and Install Roll-up Doors for the Front and Back Walls

- 6.1 Install Guides: Secure vertical tracks to door frame posts, using fasteners.
- 6.2 Mount Barrel: Lift rolled door above opening, attach brackets to header, ensure barrel rotates inward.
- 6.3 Attach Curtain: Hook curtain top to barrel slots, tension springs (1-2 turns), remove wrapping.
- 6.4 Secure Bottom Bar: Lower door into guides, install stops, locks, handles with provided bolts.
- 6.5 Counterweights/Motor: Add counterweights or mount motor per manual. Ensure smooth operation.
- 6.6 Test: Raise/lower door, check for smooth travel, adjust tension if needed.



STEP 7

Final Touches

Now that your pole barn is all done, you are ready to decorate it any way you want using your favorite paint, stain, or preservative.



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Additional Illustrations	X	✓
Additional Blueprints	X	✓
Tools List	X	✓
Fastening Elements List	X	✓
Technical Support	X	✓

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