

42'x9' Chicken Coop Plan

Up to 20 chickens



Compare Free vs. Premium plan

	Free plan	Premium edition
Pages	30	72
Illustrations for Each Step	✓	✓
Print Ready	✓	✓
Step By Step Instructions	✓	✓
Full Materials and Cuttings List	✗	✓
Additional Illustrations	✗	✓
Additional Blueprints	✗	✓
Tools List	✗	✓
Fastening Elements List	✗	✓
Technical Support	✗	✓

TRY PREMIUM

9'x42' chicken coop material list

Site Preparation

- Concrete
- Bricks

Bottom Frame

- Pressure-Treated Lumber
- Plywood

Walls Frames

- Pressure-Treated Lumber

Shed's Roof

- Pressure-Treated Lumber
- Pressure-Treated Board
- Plywood
- Building paper
- Asphalt shingles
- Metal drip edge

Front/Side Shed's Window

- Pressure-Treated Lumber
- Window beading
- Glass

Walls Exterior Siding

- Pressure-Treated Lumber
- Wood siding boards

Top Frame

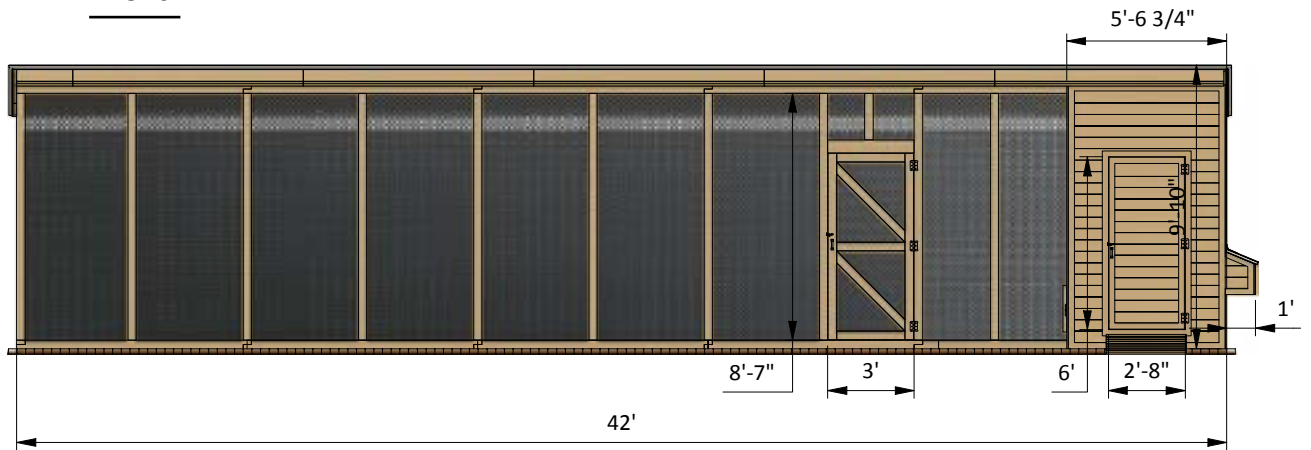
- Pressure-Treated Lumber

Fasteners & Hardware

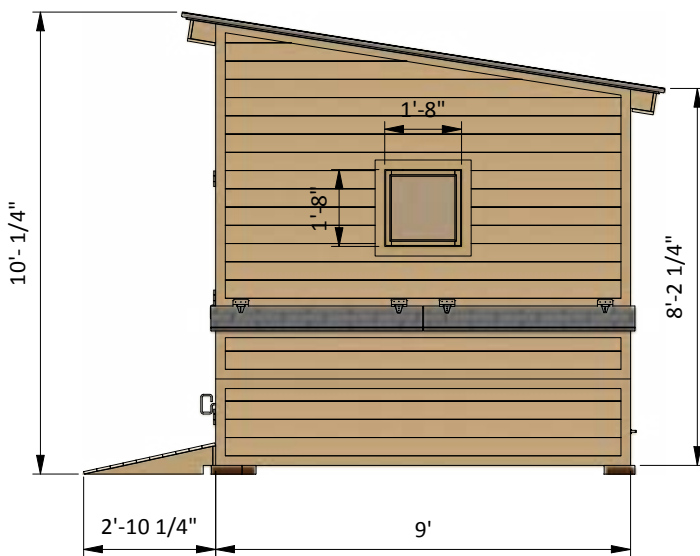
- Corner braces
- Galvanized nails
- Wood screws

Size & Dimensions

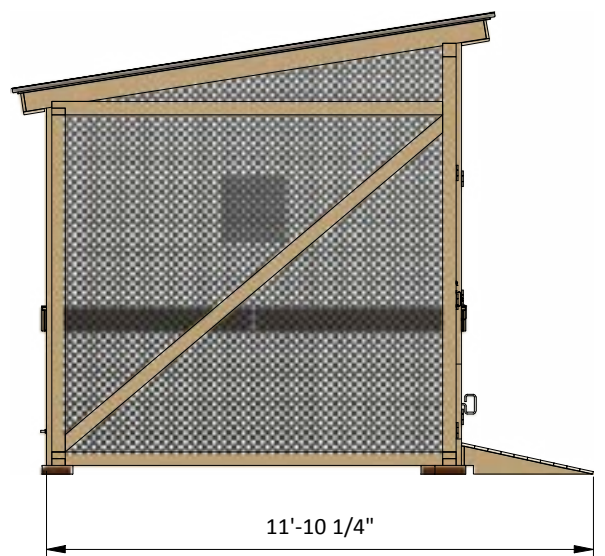
front



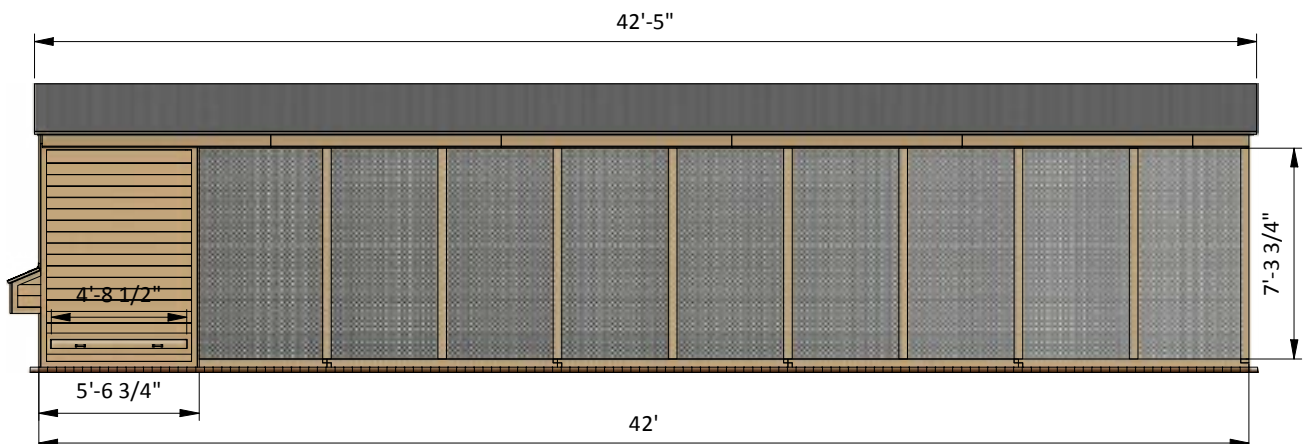
right



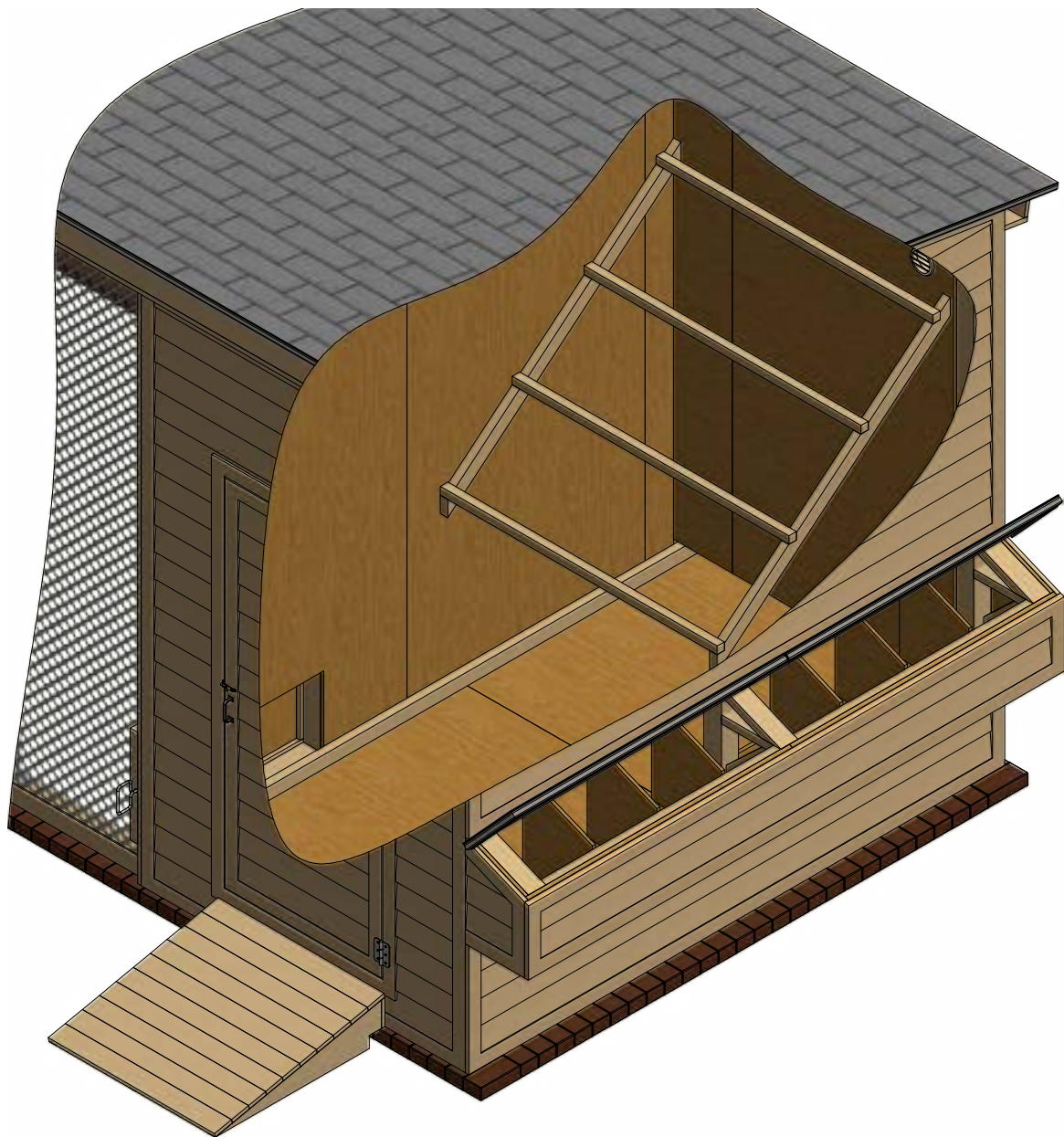
left



back



Interior view



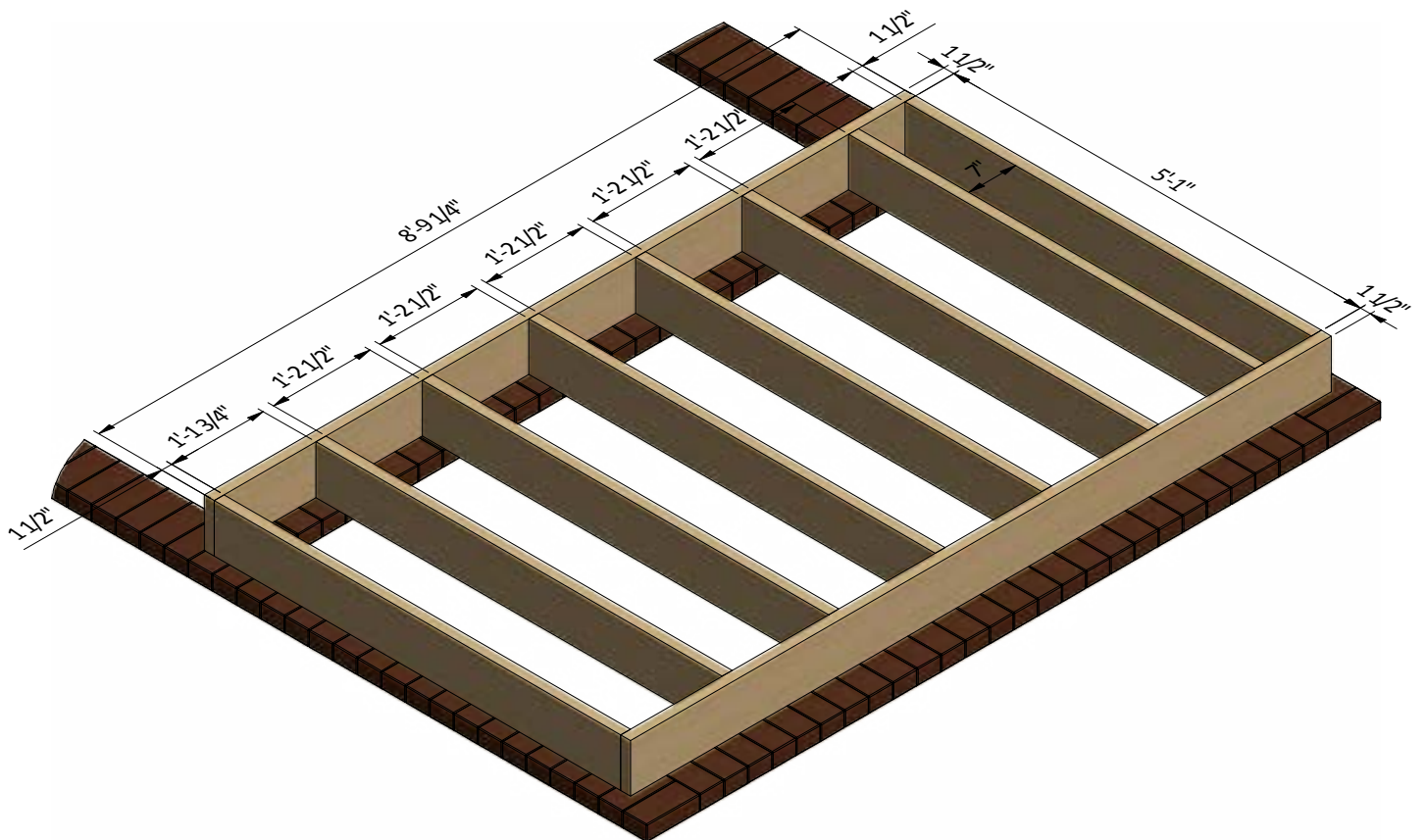
STEP 1

Framing the Coop's Floor

1.1 Assemble the frame using 1 1/2" x 7 1/4" pressure-treated lumber. You will need six boards cut to 5'-1" that will be the joist.

1.2 Secure the beams with 8x3" wood screws.

1.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



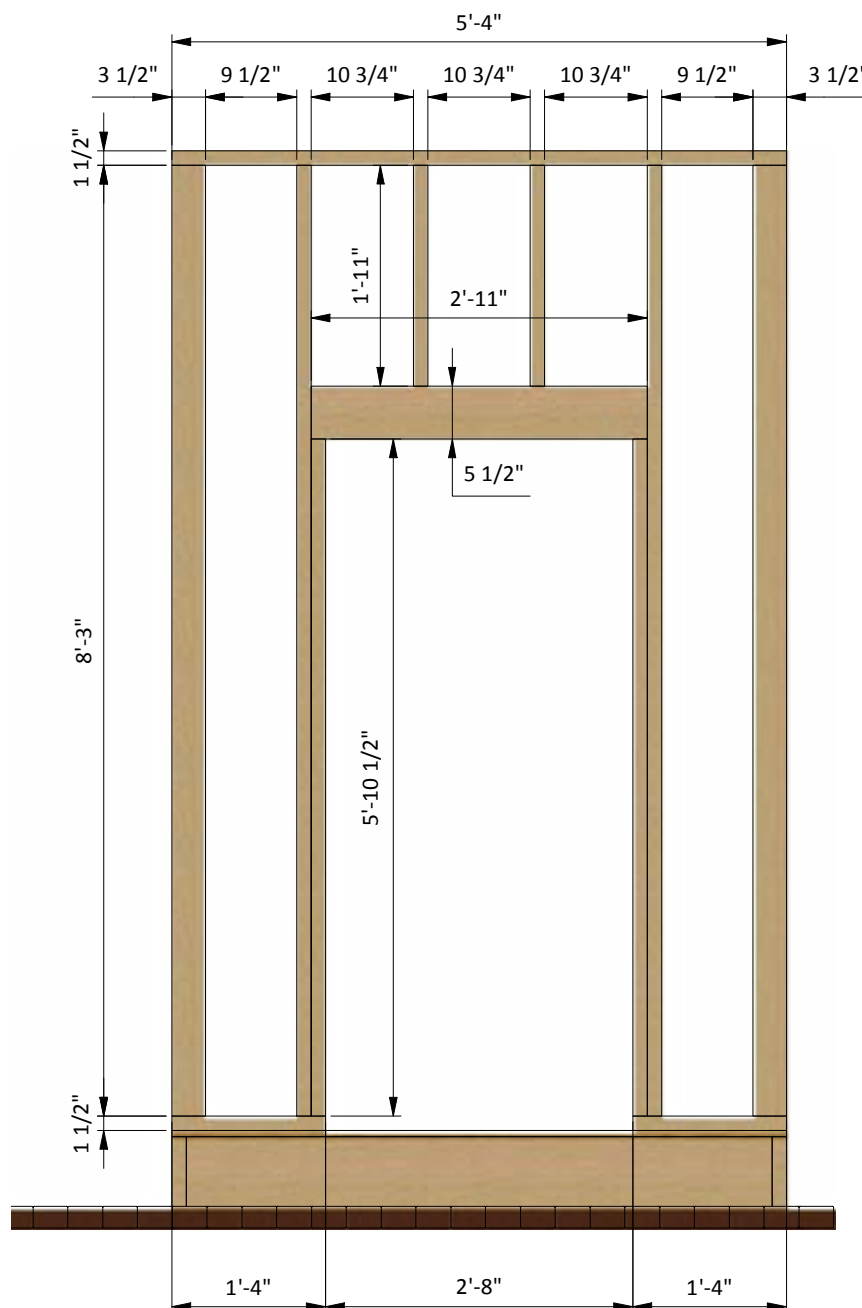
STEP 2

Assemble Front Wall Frame

2.1 Using 1 1/2" x 3 1/2", 1 1/2" x 5 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct front wall frame using the drawing below as a reference. You will need four boards cut to 8'-3", two boards cut to 5'-10 1/2" that will be studs, two boards cut to 1'-4" that will be the bottom beams, one board cut to 5'-4" that will be the top beam, two boards cut to 2'-11" that will be the door header and two boards cut to 1'-11" that will be cripple studs.

2.2 Connect the beams with 2x3" wood screws.

2.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



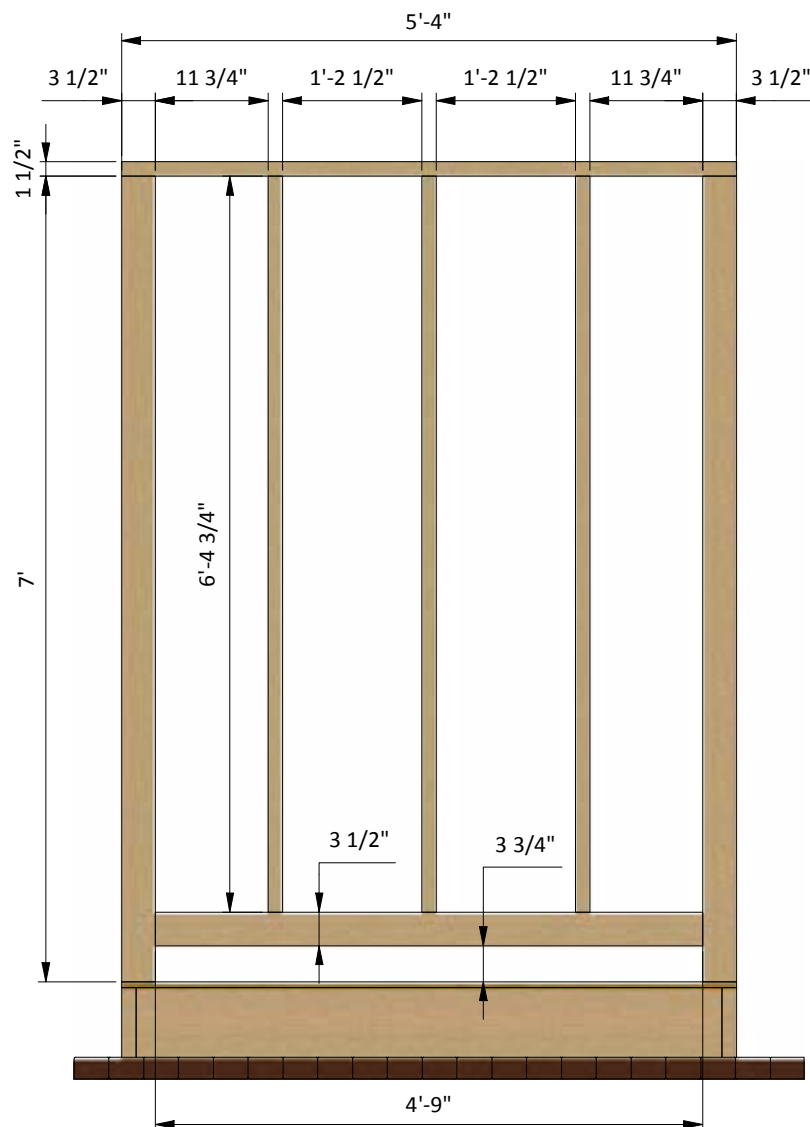
STEP 3

Assemble Back Wall Frame

3.1 Using 1 1/2" x 3 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct back wall frame using the drawing below as a reference. You will need two boards cut to 7' and three boards cut to 6'-4 3/4" that will be the studs, one board cut to 5'-4" that will be the top beam and one board cut to 4'-9" that will be the bottom beam.

3.2 Connect the beams with 2x3" wood screws.

3.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



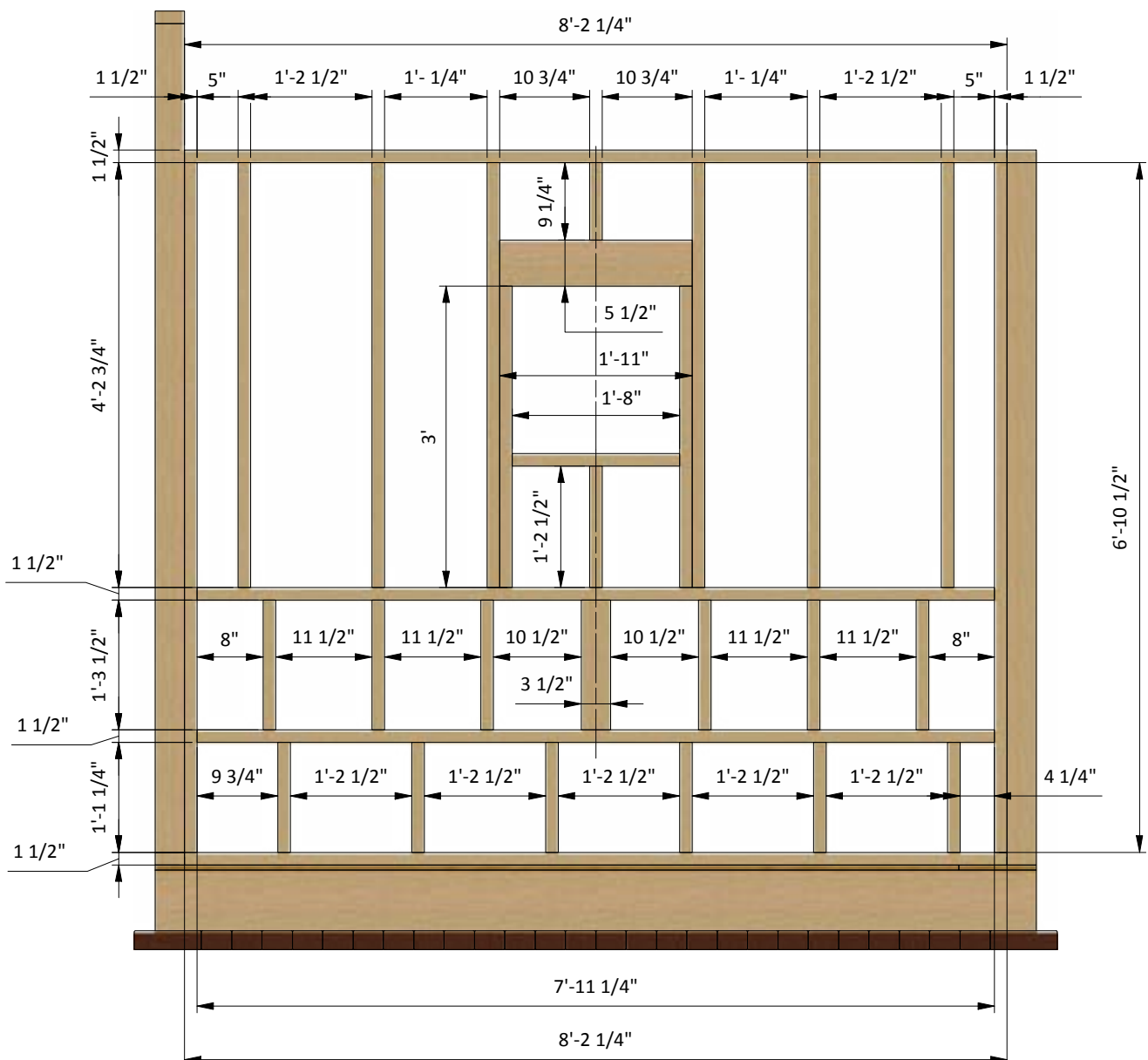
STEP 4

Assemble Right Side Wall Frame

4.1 Using 1 1/2" x 3 1/2", 1 1/2" x 5 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct right side wall frame using the drawing below as a reference. You will need two boards cut to 6'-10 1/2", six boards cut to 4'-2 3/4", two boards cut to 3', one board cut to 1'-2 1/2", seven boards cut to 1'-3 1/2", six boards cut to 1'-1 1/4" that will be studs, two boards cut to 7'-11 1/4" and one board cut to 8'-2 1/4" that will be bottom beams, one board cut to 8'-2 1/4" that will be top beam, two boards cut to 1'-11" that will be the window header, one board cut to 1'-8" that will be rough sill and one board cut to 9 1/4" that will be cripple stud.

4.2 Connect the beams with 3" wood screws.

4.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



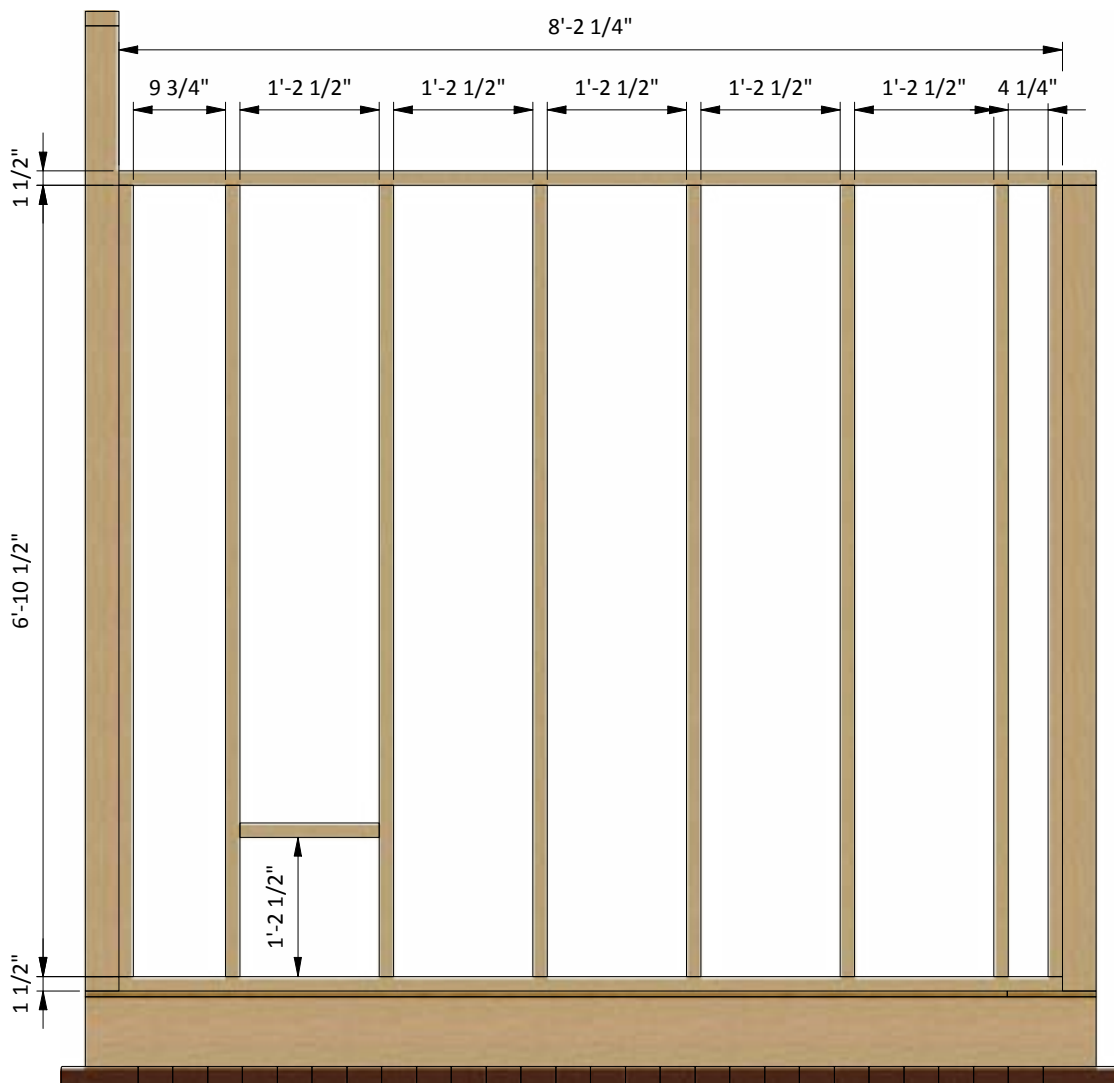
STEP 5

Assemble Left Side Wall Frame

5.1 Using 1 1/2" x 3 1/2" pressure-treated lumber, construct left side wall frame using the drawing below as a reference. You will need eight boards cut to 6'-10 1/2" that will be studs, one board cut to 1'-2 1/2" that will be chicken door header and two boards cut to 8'-2 1/4" that will be top and bottom beams.

5.2 Connect the beams with 3" wood screws.

5.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.

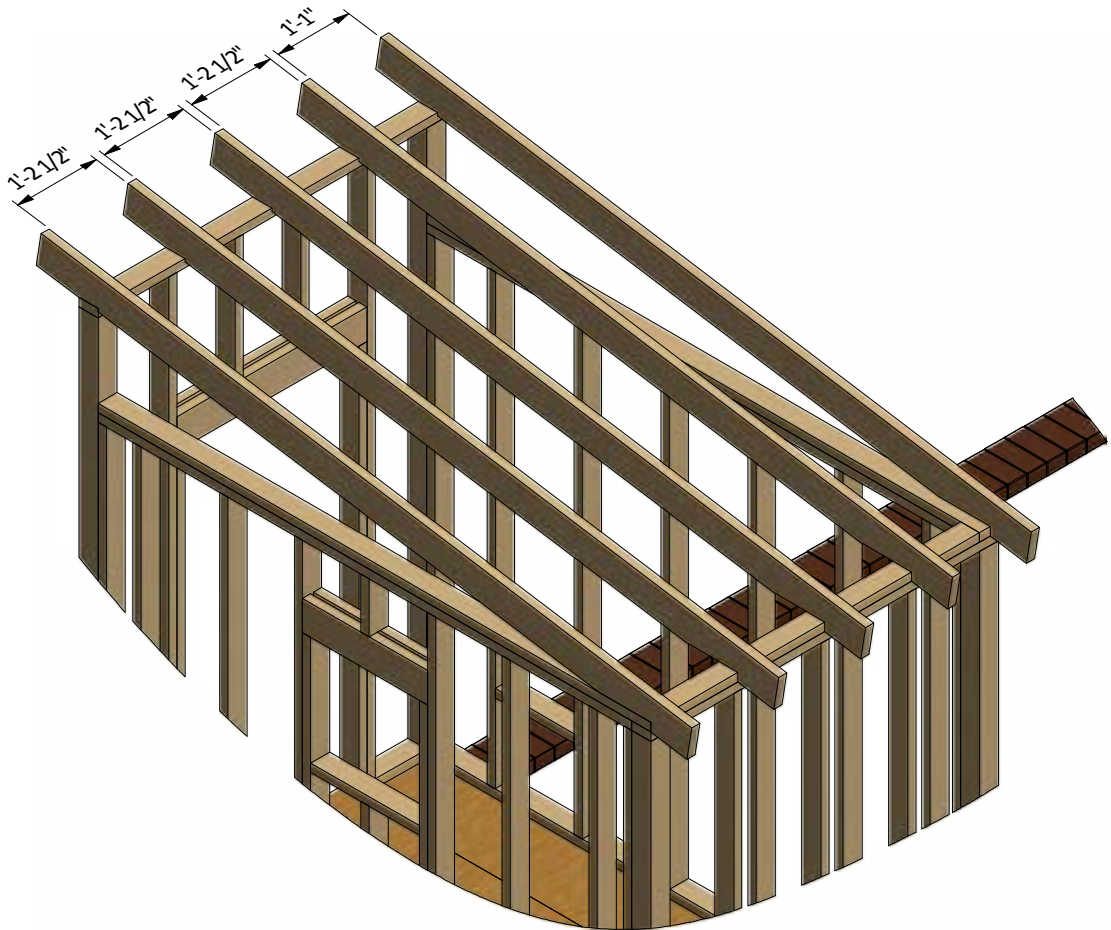


STEP 6

Assemble the Roof Frame

6.1 Using 1 1/2" x 5 1/2" pressure-treated lumber, cut five rafters 10'-1 1/4" long according to the dimensions in drawing below. Cut the recesses in each beam for splicing connection with wall frames.

6.2 Connect the beams with a top frame with the help of 5" wood screws.



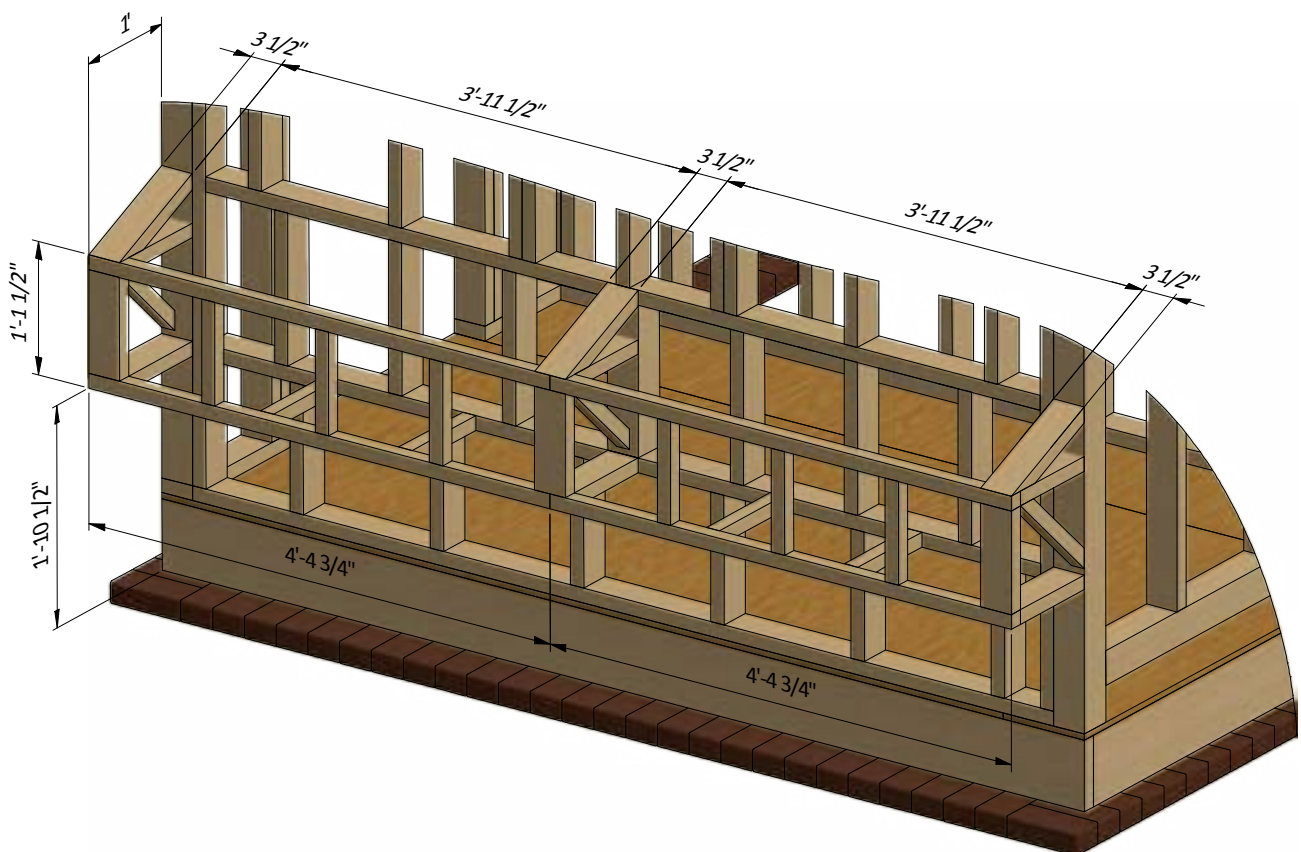
STEP 7

Nesting Box Frame Assembly

7.1 Using 1 1/2" x 1 1/2" and 1 1/2" x 3 1/2" pressure-treated lumber, assemble the frame for the nesting box using the illustrations below as a guide. You will need four boards cut to 4'-4 3/4" and nine boards cut to 10 1/2" that will be front girts, three boards cut to 1'-1" and three boards cut to 10 1/2" that will be top girts, three boards cut to 1'-2 1/2" that will be cross braces and seven boards cut to 10 1/2" that will be bottom girts.

7.2 Using 1 1/2" x 3 1/2" pressure-treated lumber prepare six girts 1'-3 1/2" long and place them in the left wall frame right behind the nesting box front girts.

7.3 Make sure to provide slope for the lid of the nesting box.

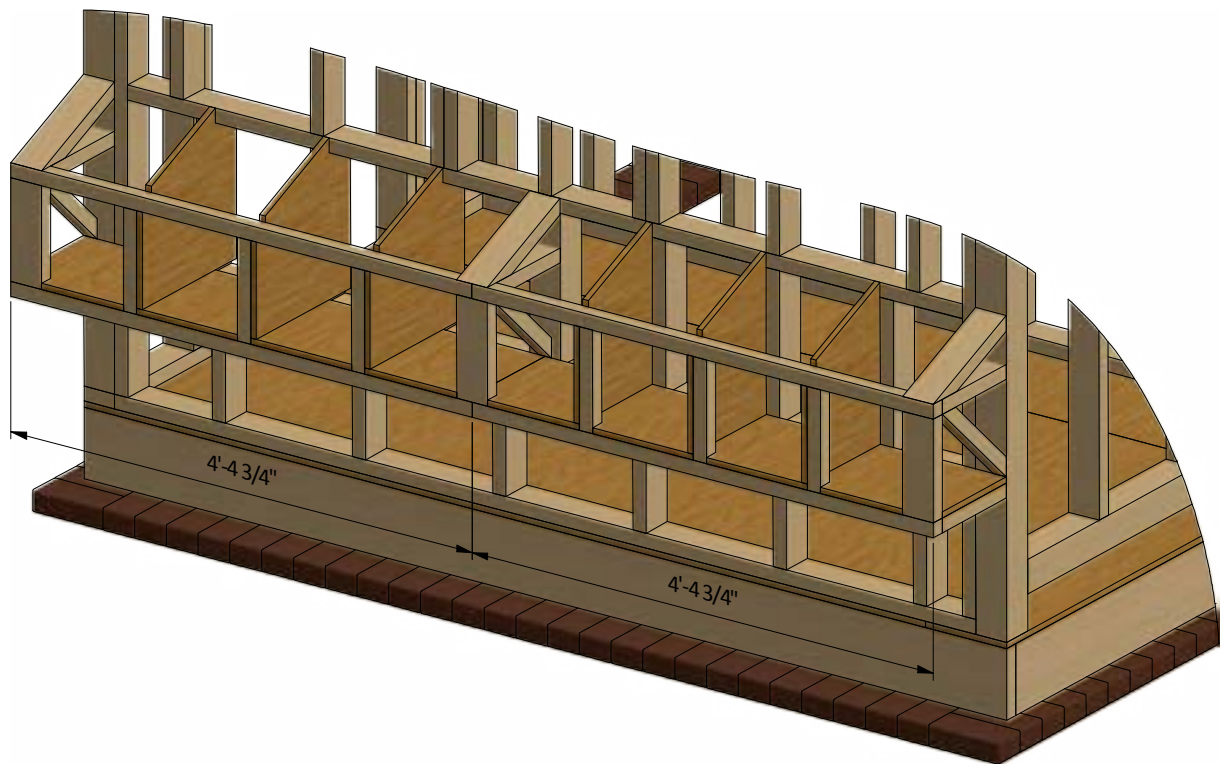


STEP 8

Install Plywood for the Nesting Box

8.1 Cut sheet of 5/8" plywood for the nesting box sheathing using the drawing below as a guide. You will need two 1' x 4'-4 3/4" sheets for the floor and six 1'-3 1/2" x 1'-4 1/2" sheets for inner partitions.

8.2 Secure the plywood with 1" wood screws.



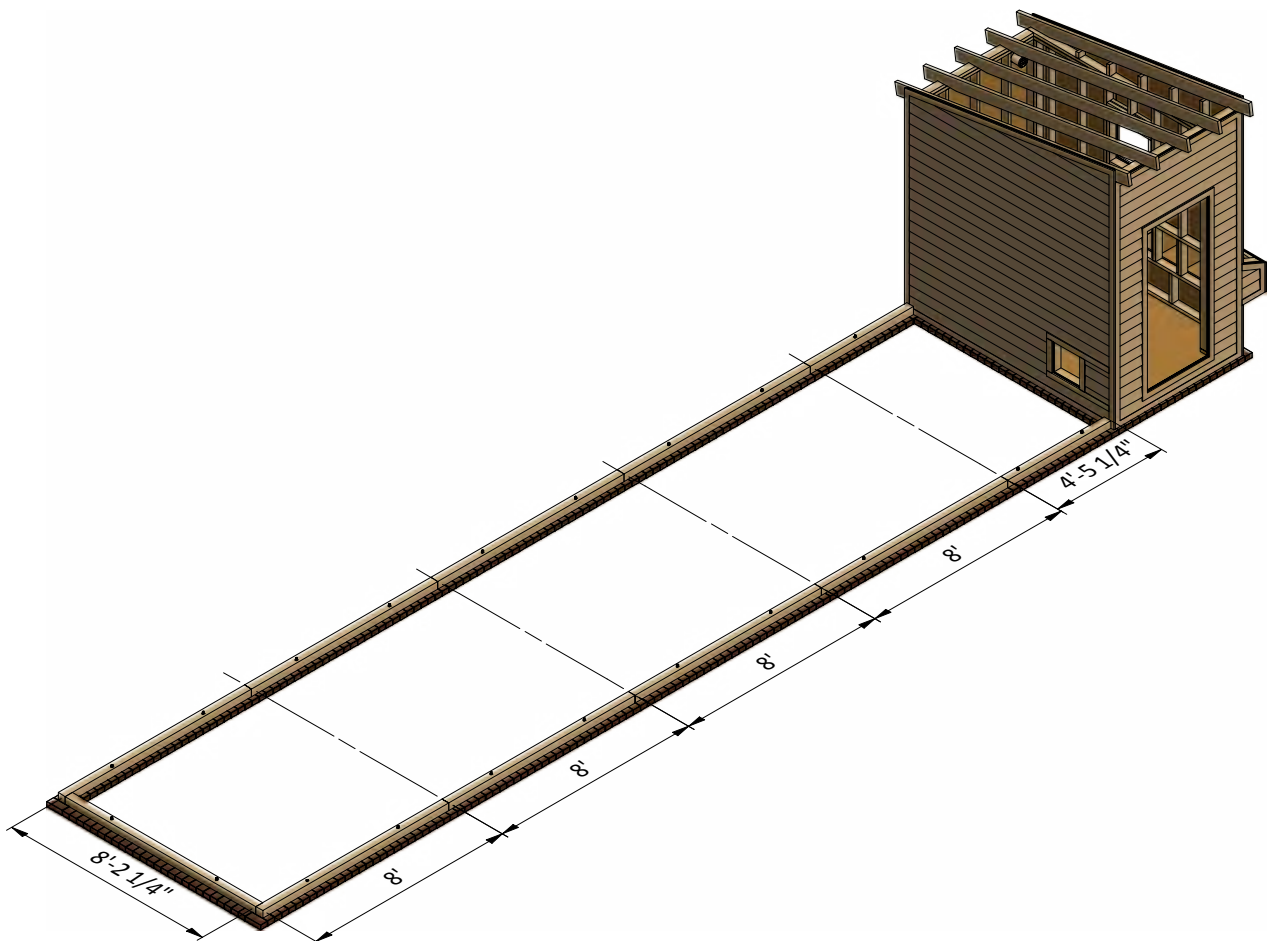
STEP 9

Assemble the Aviary's Bottom Frame

9.1 Using 3 1/2" x 3 1/2" pressure-treated lumber, install the bottom boards using the drawing below as a reference. You will need one board cut to 8'-2 1/4", eight boards cut to 8' and two boards cut to 4'-5 1/4".

9.2 To attach the frame to the foundation, use 3/8" x 7" Steel Expansion Anchors.

9.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



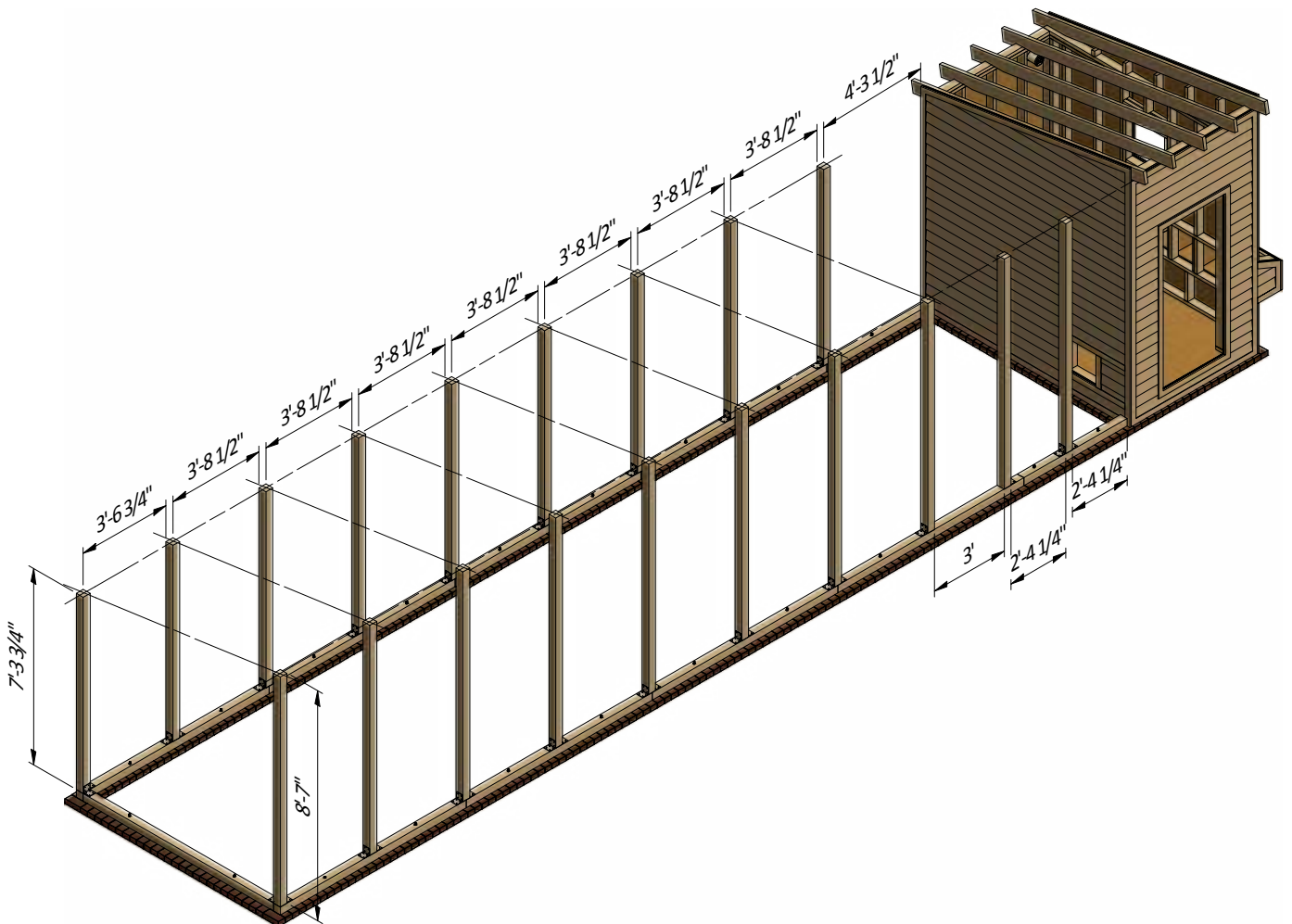
STEP 10

Assemble the Main Frame

10.1 Using 3 1/2" x 3 1/2" pressure-treated lumber, install the wall studs using the drawing below as a reference. You will need nine boards cut to 7'-3 3/4" and ten boards cut to 8'-7".

10.2 Secure the beams to the bottom frame with the help of 3" x 3" corner brackets.

10.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



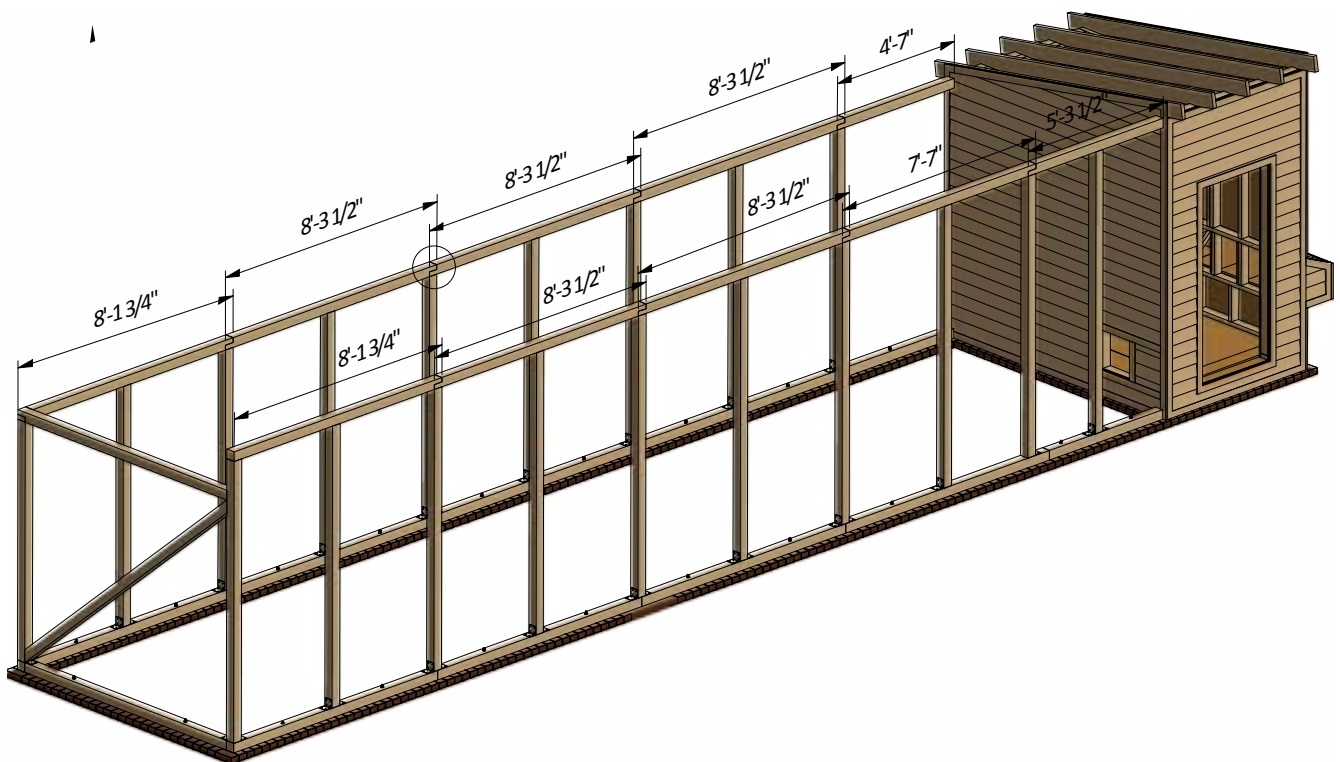
STEP 11

Assemble the Aviary's Top Frame

11.1 Using 3 1/2" x 3 1/2" pressure-treated lumber, install the top beams using the drawing below as a reference. You will need two boards cut to 8'-1 3/4", five boards cut to 8'-3 1/2", one board cut to 7'-7", one board cut to 4'-7", one board cut to 5'-3 1/2" and one board cut to 8'-5 3/4".

11.2 Using 3 1/2" x 3 1/2" pressure-treated lumber, provide the cross brace using the drawing below as a reference. You will need one board cut to 10'-11 3/4".

11.3 To connect 4'-7" and 5'-3 1/2" beams to the coop's left wall use 3"x3" corner braces. To connect other top beams between themselves use half lap connection.

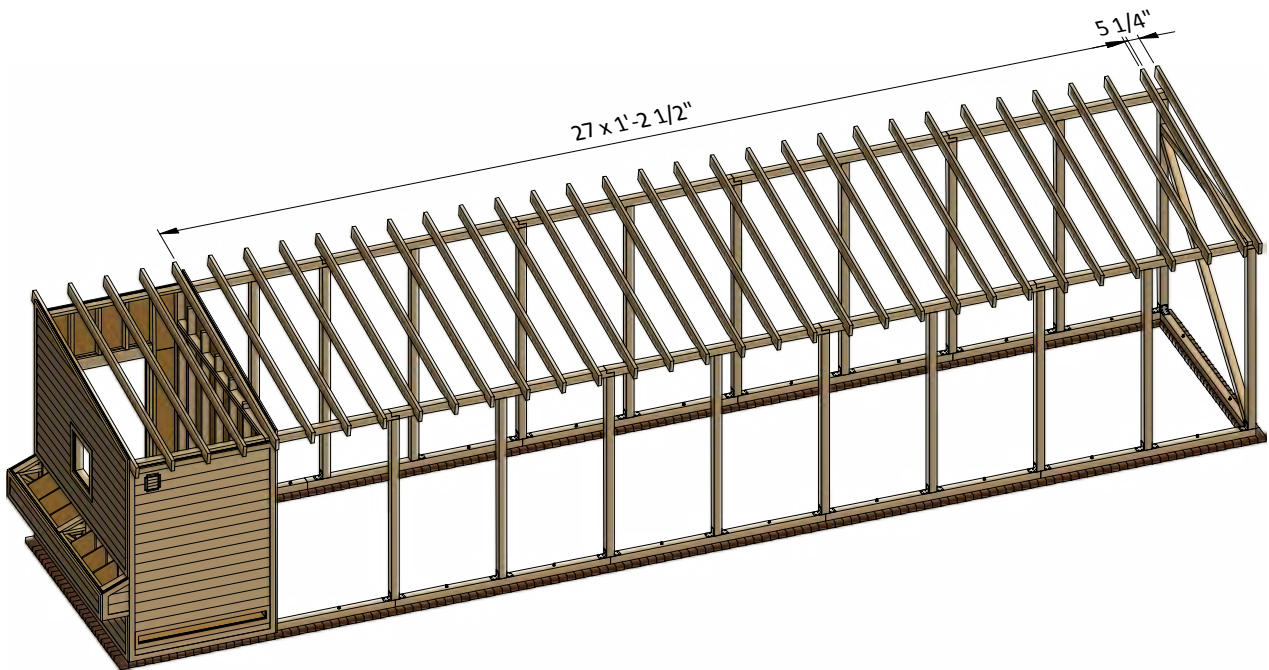


STEP 12

Assemble the Aviary's Roof Frame

12.1 Using 1 1/2" x 5 1/2" pressure-treated lumber, cut twenty eight rafters 10'-1 1/4" long according to the dimensions in drawing below. Cut the recesses in each beam for splicing connection with wall frames.

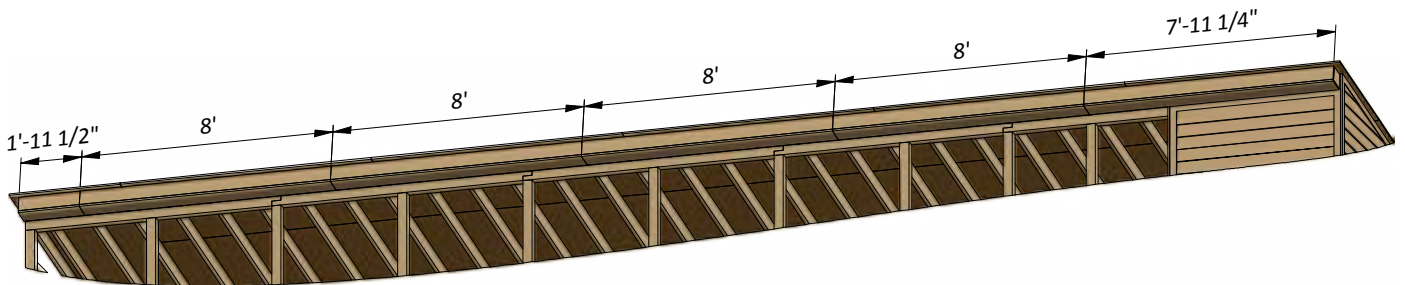
12.2 Connect the beams with a top frame with the help of 5" wood screws.



STEP 13

Assemble the Coop's Roof Fascias

13.1 Using 3/4" x 5 1/2" and 3/4" x 7 1/4" pressure-treated lumber, prepare four roof fascias 7'-11 1/4" long, sixteen roof fascias 8' long and four roof fascias 1'-11 1/2" long and install with 2" wood screws to the rafters from the front wall and back wall.



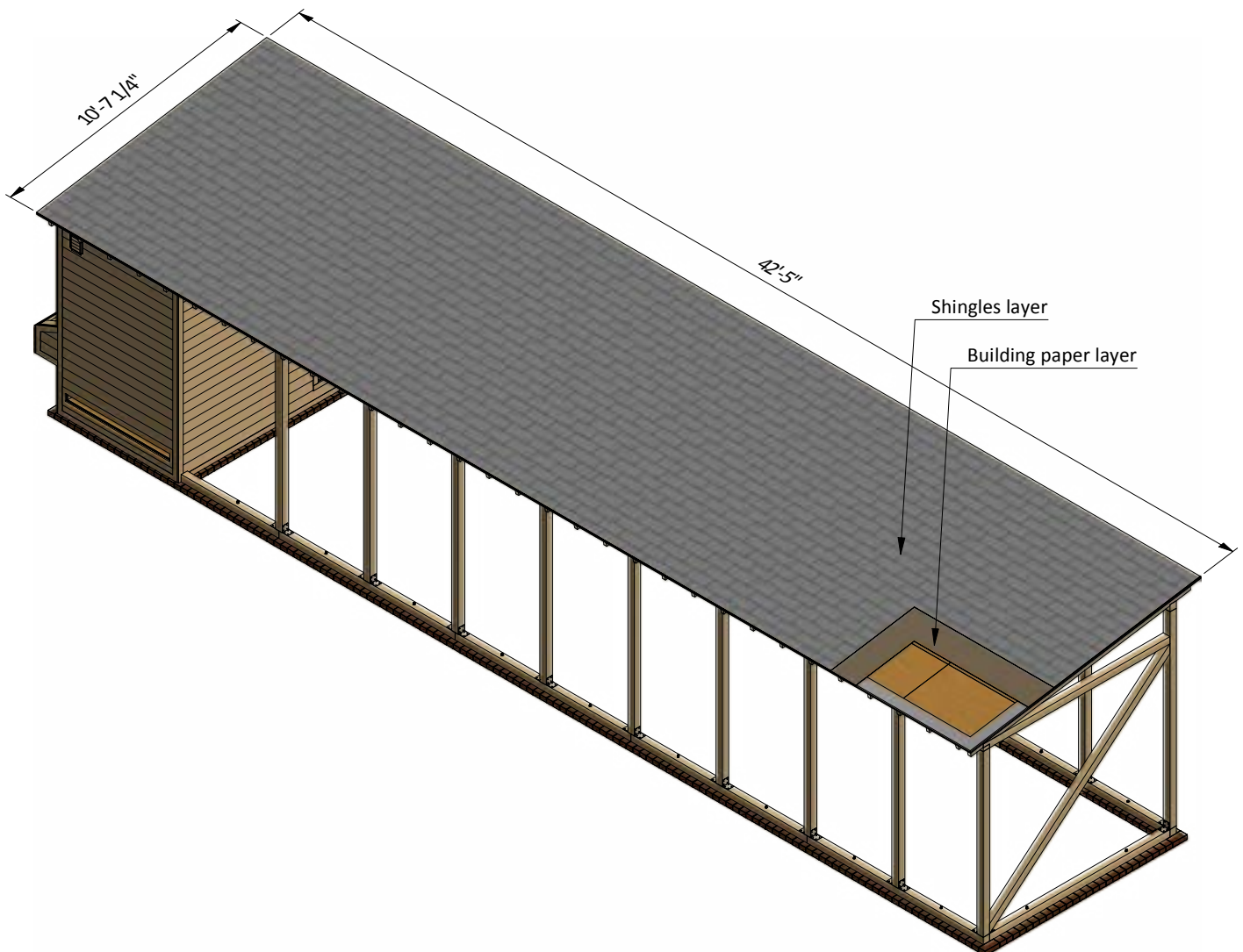
STEP 14

Coop's Roof Sheathing Installation

14.1 You will need 450 Sq Ft of building paper and asphalt shingle roofing.

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

14.3 Install asphalt shingle roofing using an industrial stapler.



STEP 15

Installing the Nesting Box Lids

15.1 Cut sheet of 5/8" plywood for the lids using the drawing below as a guide. You will need two 1'-2" x 4'-7" sheets.

15.2 Prepare metal drip edge with 6" width. You will need 12' to cover all the outer edges.

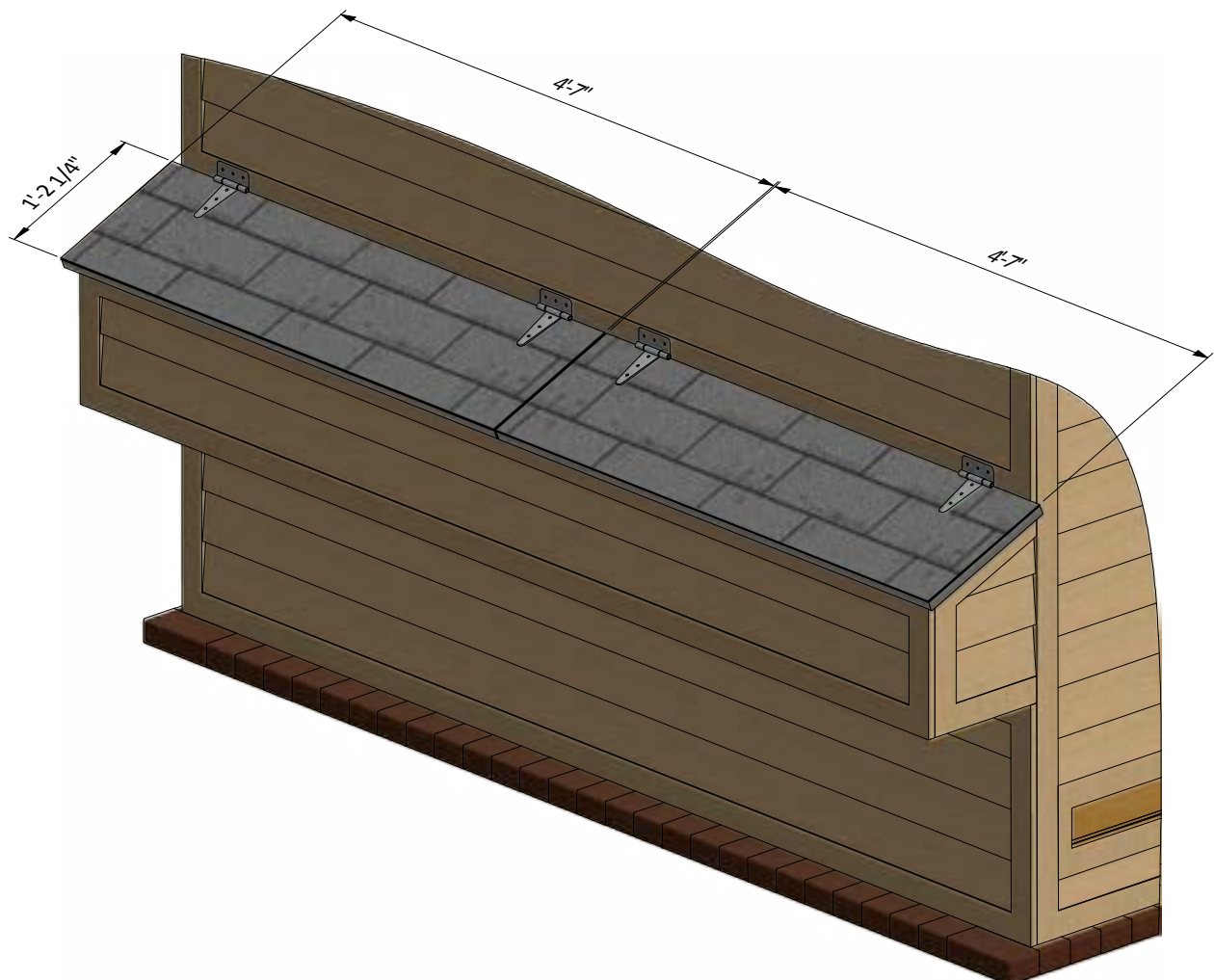
15.3 Place the drip edge down, aligning it to the plywood edge. Use 1/2" nails to secure the first drip edge. When you place the next drip edge piece, it should overlap the first by an inch.

15.4 You will need 11 Sq Ft of building paper and asphalt shingle roofing.

15.5 Cover the plywood and drip edge with building paper. Try to install sheets with 1" overlapping.

15.6 Install asphalt shingle roofing using an industrial stapler.

15.7 Connect the lids to the front wall with the help of four 3" x 3" tee surface mount hinges



STEP 16

Assemble and Install Front Door

16.1 Build the door frame using 3/4" x 3 1/2" pressure-treated lumber.

You will need two boards cut to 5'-11 1/2" that will be the vertical girts, two boards cut to 2'-1/2" that will be the horizontal girts and one board cut to 5'-9" that will be cross brace.

16.2 Prepare the 5/8" plywood sheet with dimensions 2'-7 1/2" x 5'-11 1/2" for the door according to the drawing.

16.3 Use 3/4" x 2 1/2" pressure-treated lumber for the door trim and fasten with 2" wood screws.

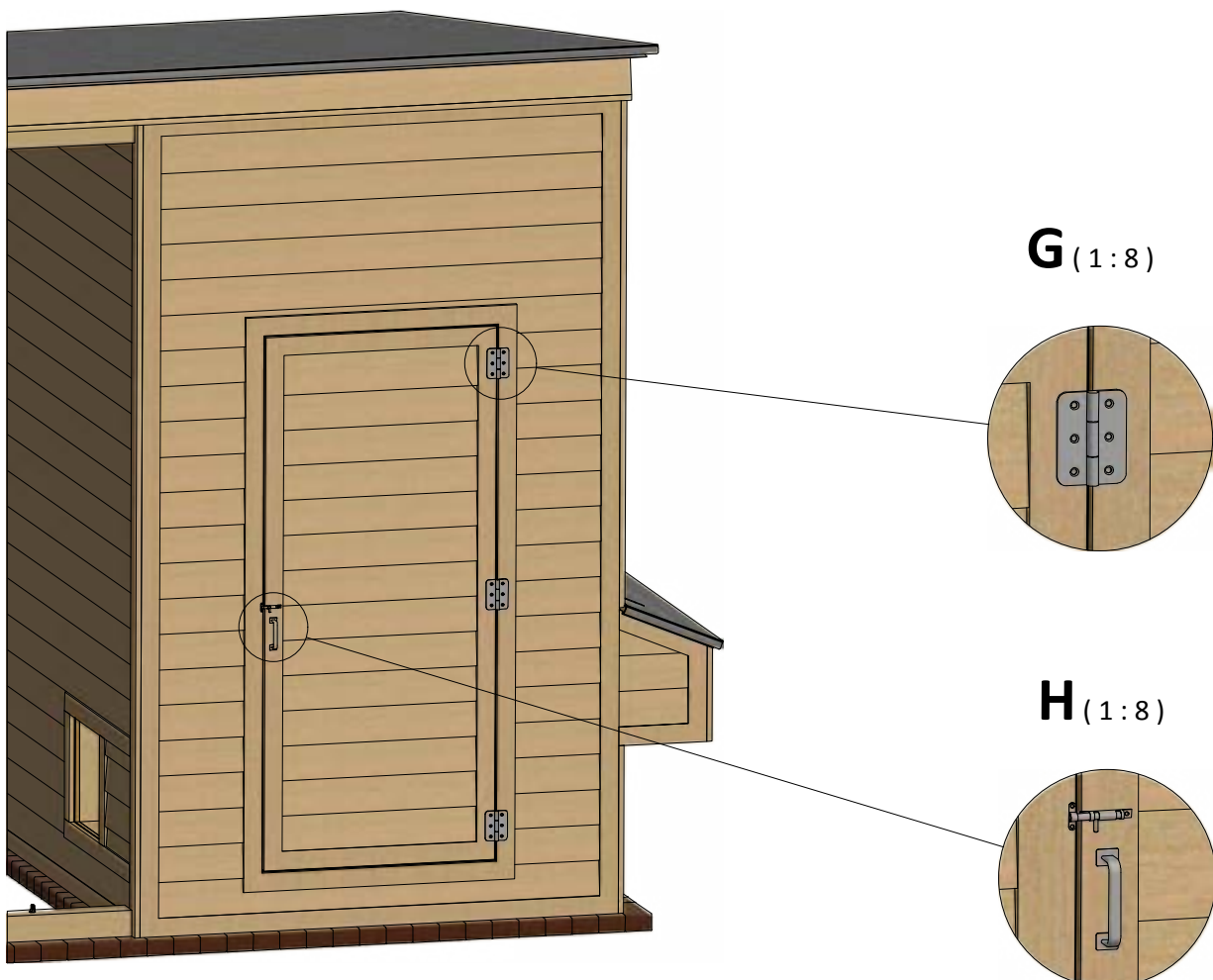
You will need two boards cut to 2'-2 1/2" and two boards cut to 5'-11 1/2".

16.4 Using 1/4" x 3/4" pressure-treated lumber, cut and install a starter course 2'-2 1/2" long.

16.5 For the exterior siding on the door, use 1/2" x 6" wood siding boards and the illustration below as a reference. Assemble siding shields with 2" galvanized nails.

16.6 Install three 3" door hinges using 6x1" wood screws.

Finish the door installation by attaching 6" door pull and 3" surface bolt (see nodes **G**, **H**).



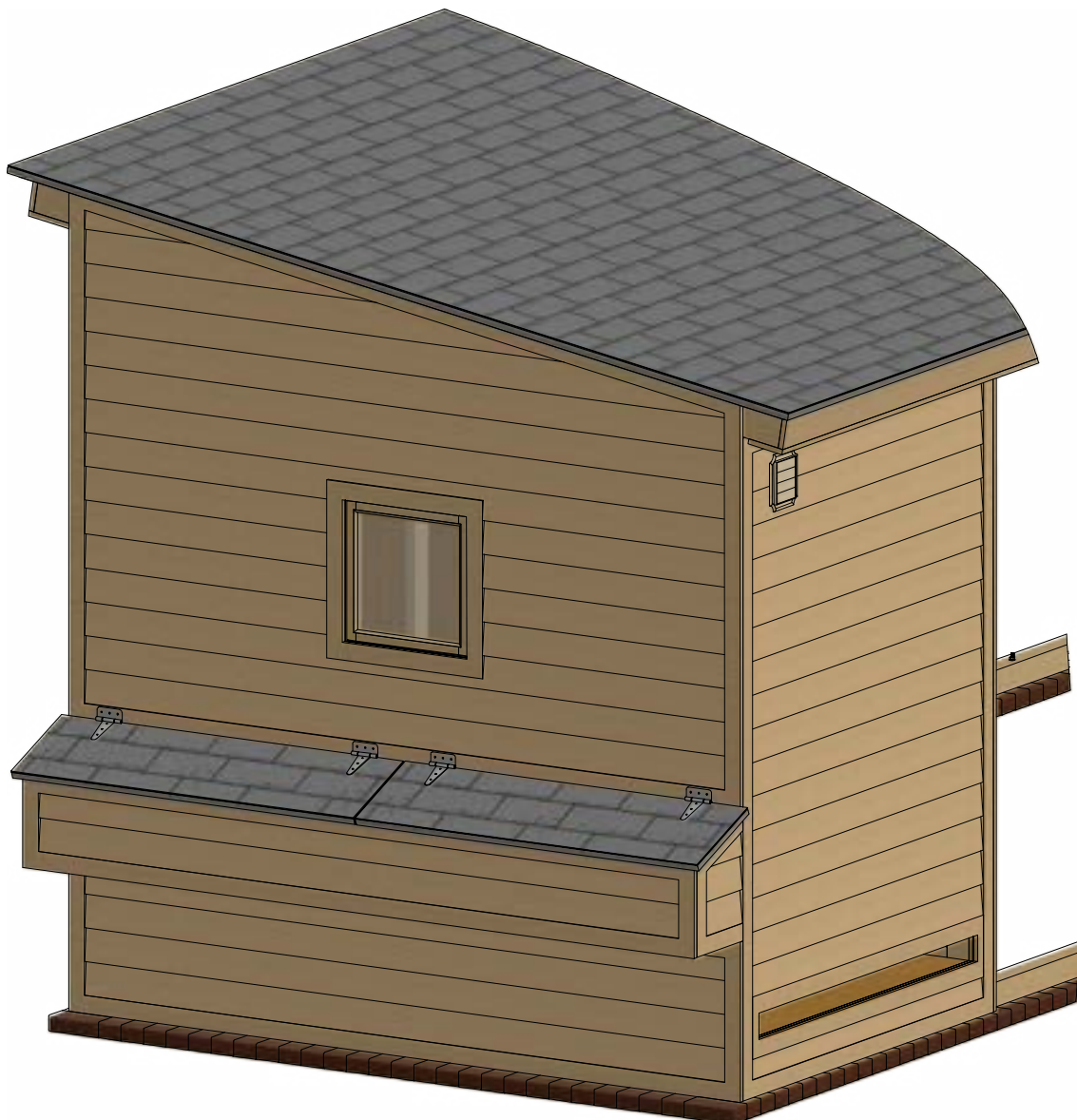
STEP 17

Assemble and Install Window

17.1 Using 1 1/2" x 1 1/2" pressure-treated lumber, assemble the outer frame for the window as shown in the drawing below. You will need four boards cut to 1'-7 1/2" that will be the vertical and horizontal girts. Cut the recesses in each beam for splicing connection and mill a recess for the glass.

17.2 Prepare and install 1'-5 1/4" x 1'-5 1/4" glass into inner frame groove and fasten it by window beading from four sides. Use 1/2" galvanized nails.

17.3 Insert window into wall openings and connect them with 3" wood screws to the wall beams.



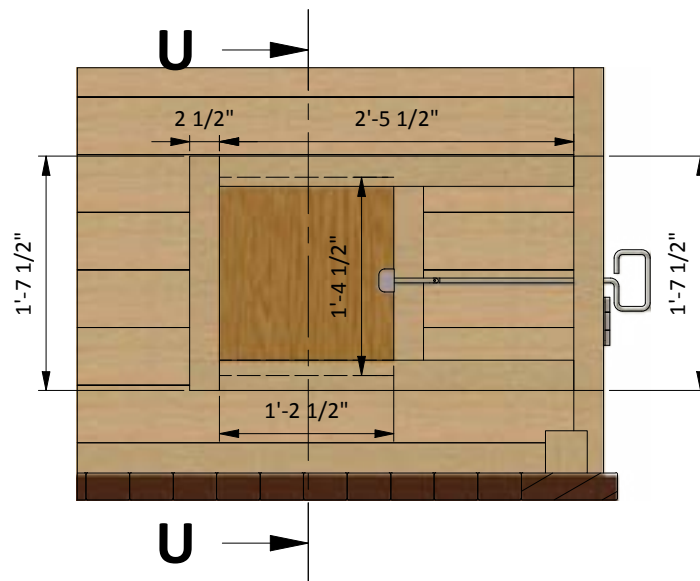
STEP 18

Assemble the Chicken Door

18.1 Prepare the 5/8" plywood sheet with dimensions 1'-2 1/2" x 1'-4 1/2" for the chicken door according to the drawing.

18.2 Use 1 1/2" x 2 1/2" pressure-treated lumber to cut and install the chicken door trims. Use the illustration below as a reference. You will need two boards cut to 2'-5 1/2" that will be horizontal girts and two boards cut to 1'-7 1/2" that will be vertical girts. Cut the recesses in the horizontal girts to allow the chicken door to slide. Cut the recess in right vertical girt to allow slider movement.

18.3 Install chicken door slider lever to the chicken door .



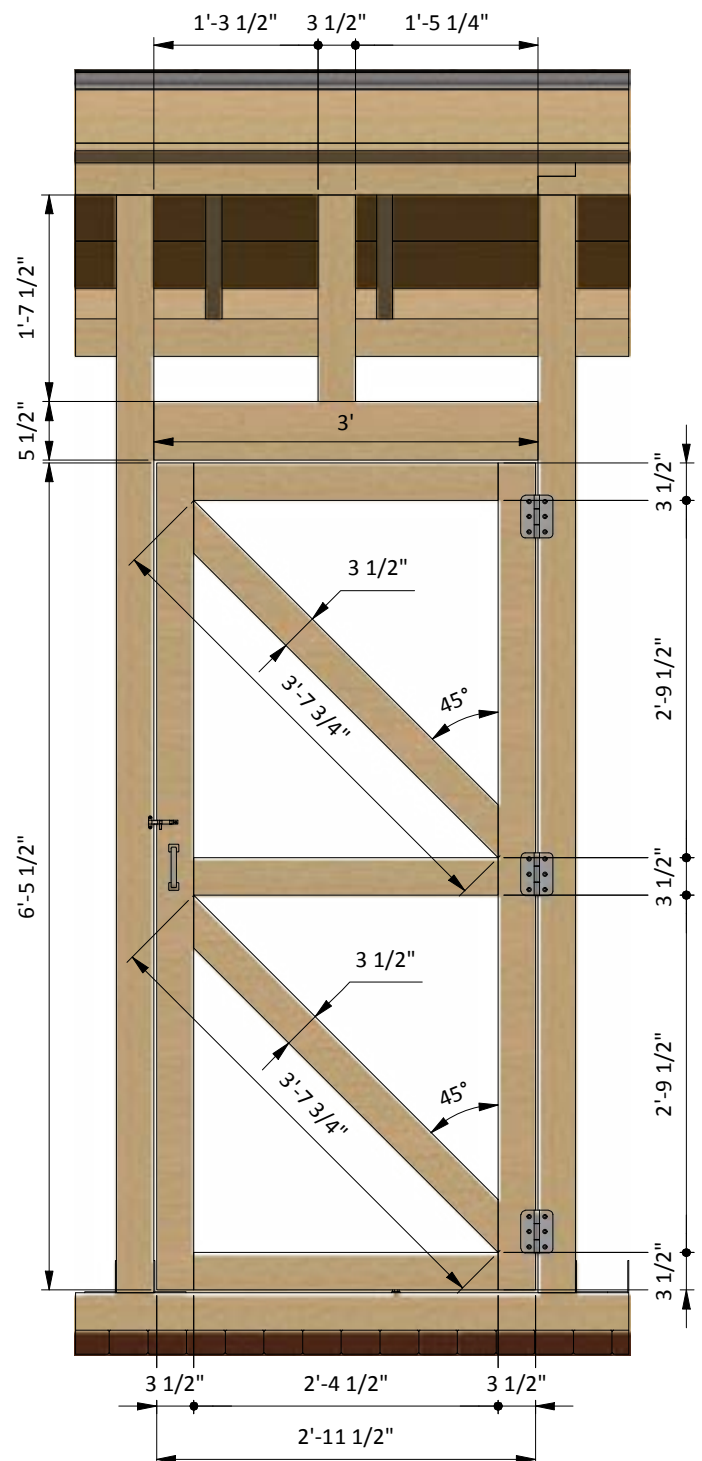
STEP 19

Assemble and Install Aviary's Door

19.1 Build the door frame using 1 1/2" x 3 1/2" pressure-treated lumber and secure with 5" wood screws. You will need two boards cut to 6'-5 1/2" that will be the vertical girts, three boards cut to 2'-4 1/2" and two boards cut to 3'-7 3/4" that will be cross braces.

19.2 Using 1 1/2" x 3 1/2" and 1 1/2" x 5 1/2" pressure-treated lumber, construct aviary door header using the drawing below as a reference. You will need two boards cut to 3' that will be the door header and one board cut to 1'-7 1/2" that will be cripple stud.

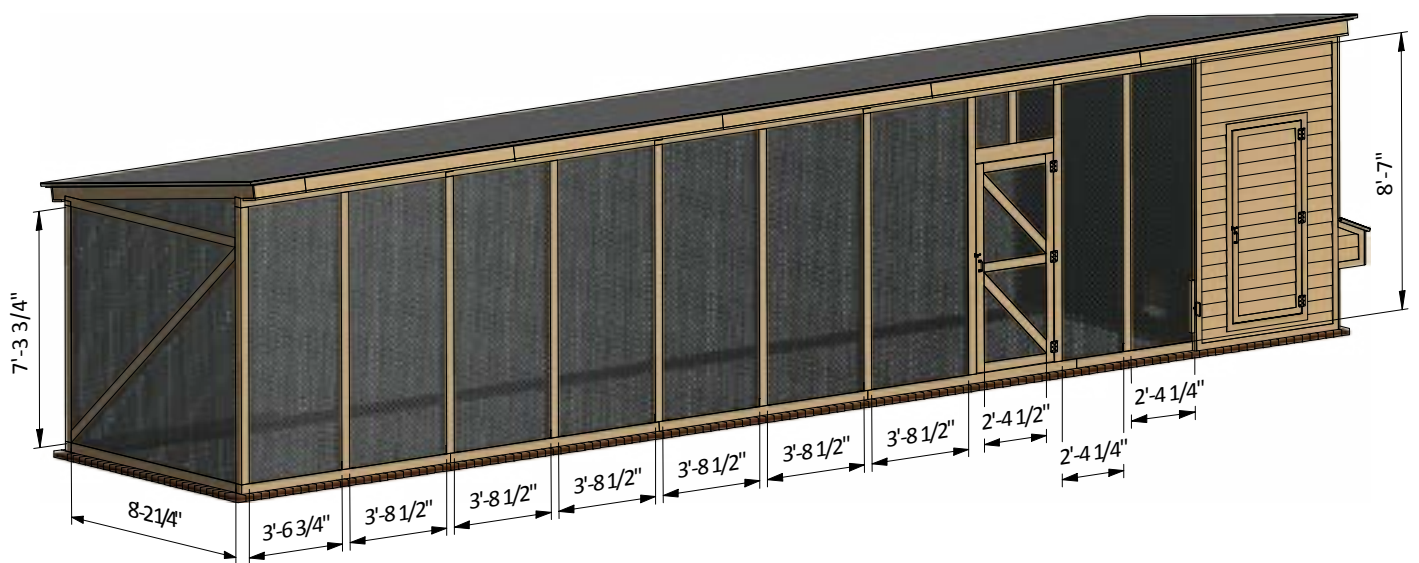
19.3 Install three 3" door hinges using 1" wood screws.
Finish the door installation by attaching 6" door pull and 3" surface bolt.



STEP 20

Mesh Wall Installation

20.1 Cover the walls with 1/4" wire mesh with the help of industrial stapler. You will need 620 sq ft.

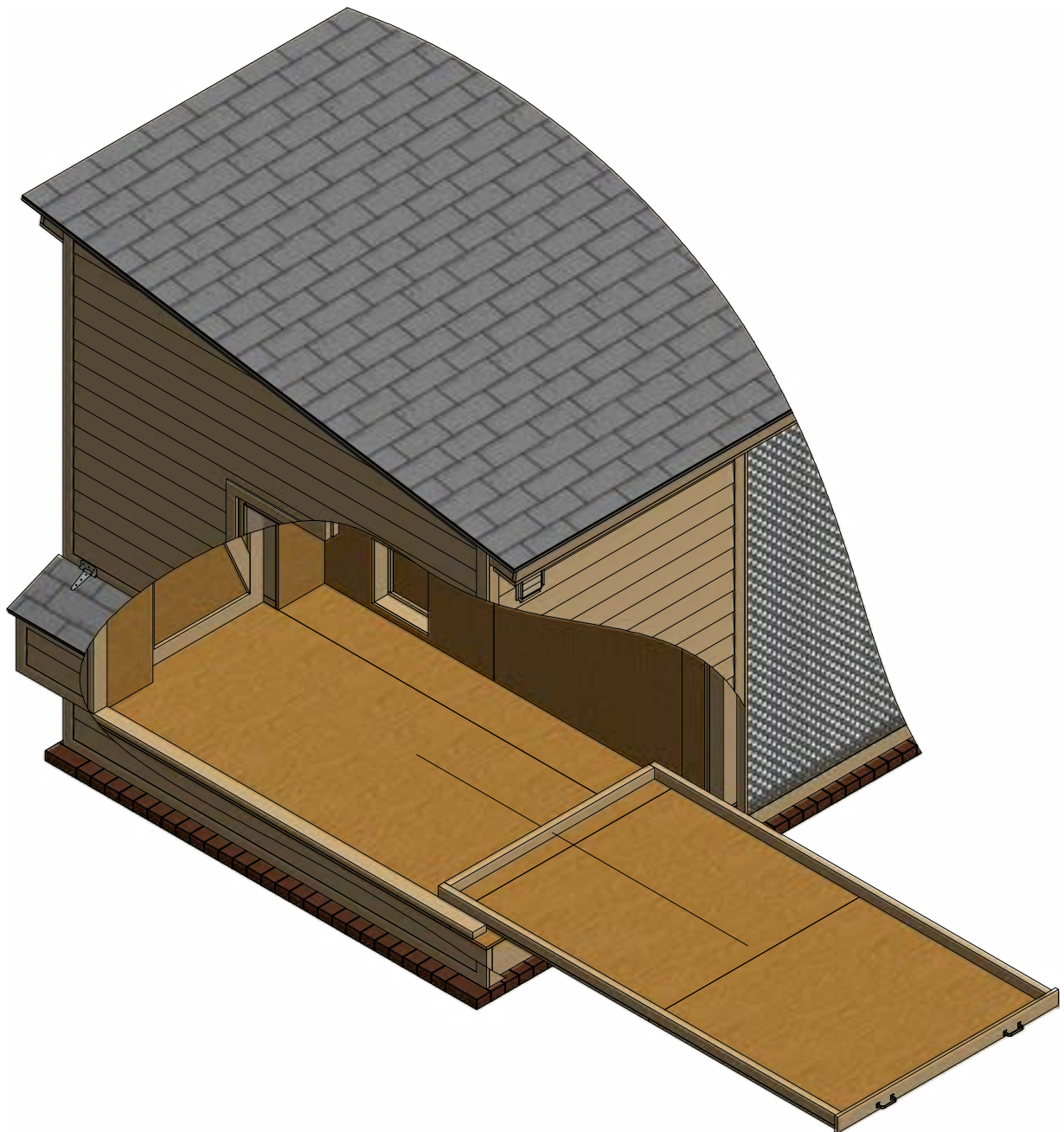


STEP 21

Assemble The Litter Tray

21.1 Assemble the litter tray using $\frac{3}{4}$ " x $3\frac{1}{2}$ " and $1\frac{1}{2}$ " x $2\frac{1}{2}$ " pressure-treated material and $\frac{5}{8}$ " plywood. You will need two boards cut to $8'-5\frac{3}{4}"$, one board cut to $4'-4\frac{1}{4}"$ and one board cut to $4'-8\frac{1}{2}"$. Assemble the frame and put two $4' \times 4'-7\frac{1}{4}"$ sheets and one $5\frac{3}{4}" \times 4'-7\frac{1}{4}"$ sheet of plywood at the bottom. Finish the tray installation by attaching two 6" door pulls.

21.2 Connect the beams and plywood with 2" wood screws.



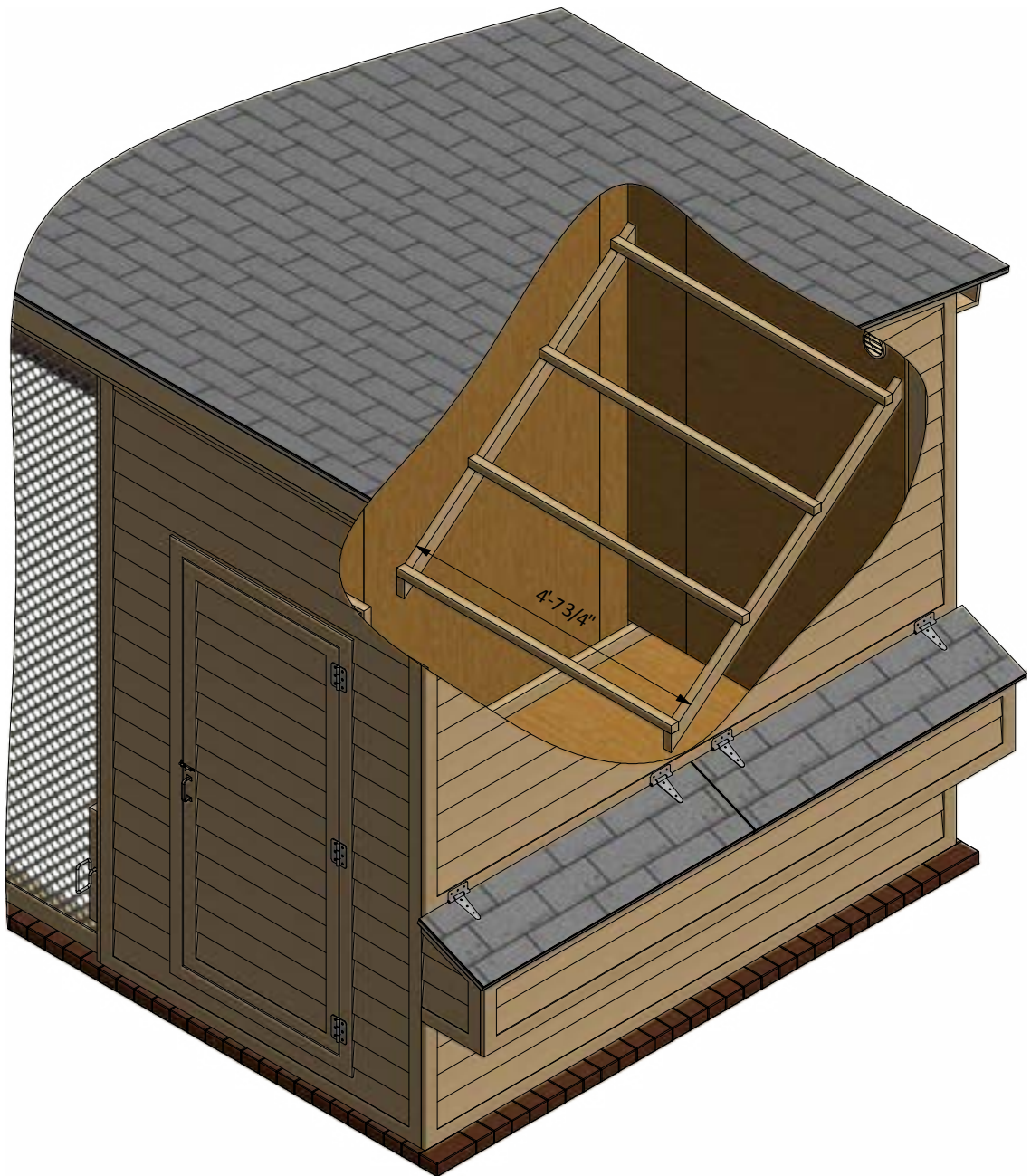
STEP 22

Assemble The Roost

22.1 Assemble the roost using 1 1/2" x 1 1/2" and 1 1/2" x 2 1/2" pressure-treated material. You will need two boards cut to 5'-3" and four boards cut to 4'-7 3/4".

22.2 Connect the beams with 2" wood screws.

22.3 Install the roost at the studs with the help of 3" screws.



STEP 23

Final Touches

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





Compare Free vs. Premium plan

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Pages	30	72
Illustrations for Each Step	✓	✓
Print Ready	✓	✓
Step By Step Instructions	✓	✓
Full Materials and Cuttings List	✗	✓
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Tools List	✗	✓
Fastening Elements List	✗	✓
Technical Support	✗	✓

TRY PREMIUM



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