20'x9' Chicken Coop Plan

Up to 15 chickens

Compare Free vs. Premium plan

	Free plan	Premium edition
Pages	19	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

20'x9' 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

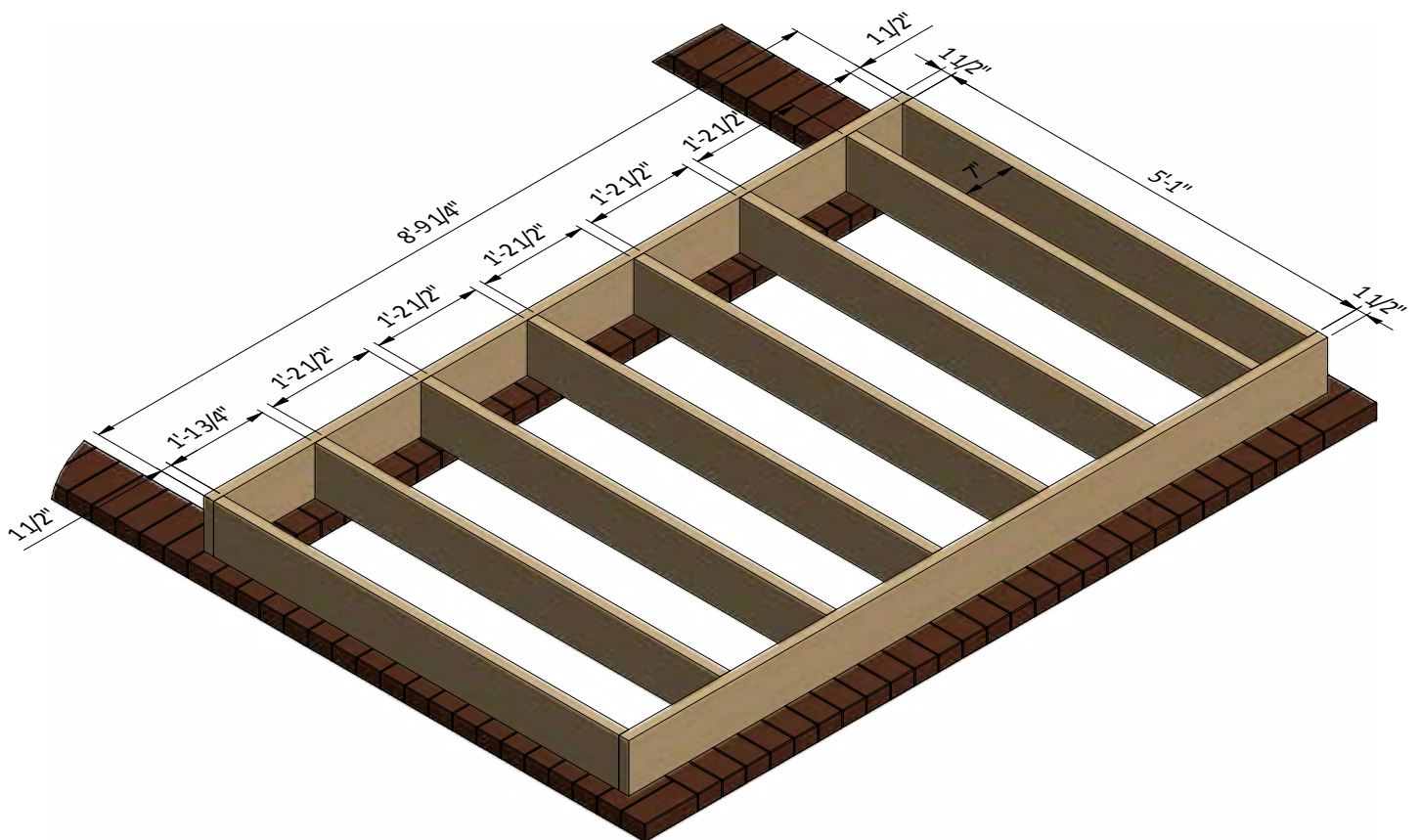- Corner braces
- Galvanized nails
- Wood screws

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.

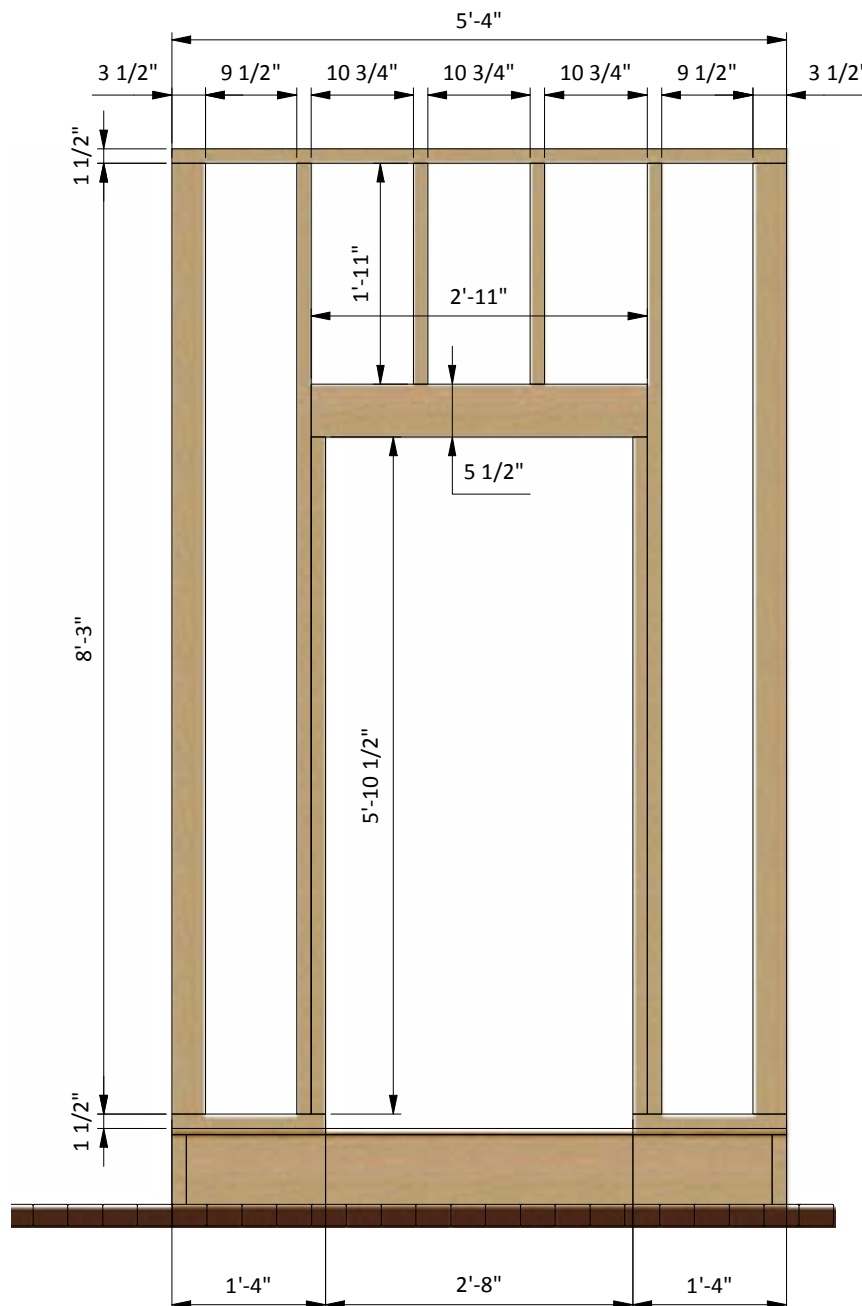**1.3** Using a speed square or carpenter's square, check the corners to make sure they are 90°.

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.

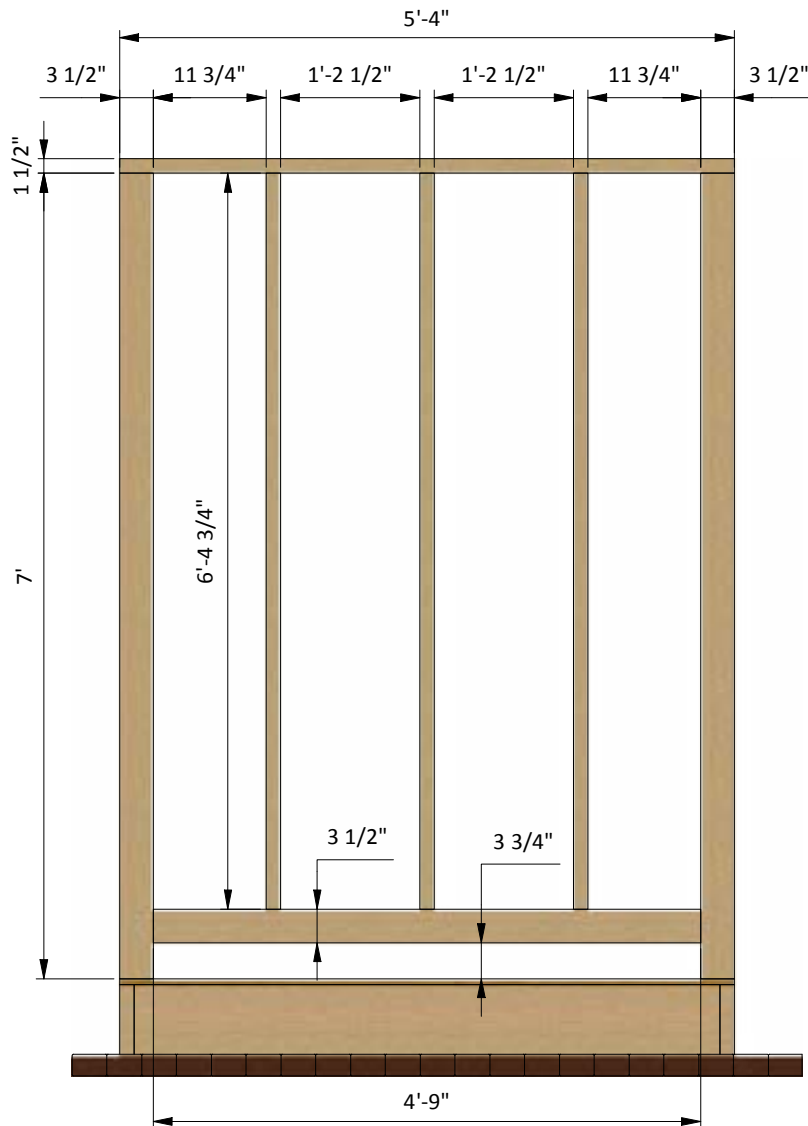**2.3** Using a speed square or carpenter's square, check the corners to make sure they are 90°.

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 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°.
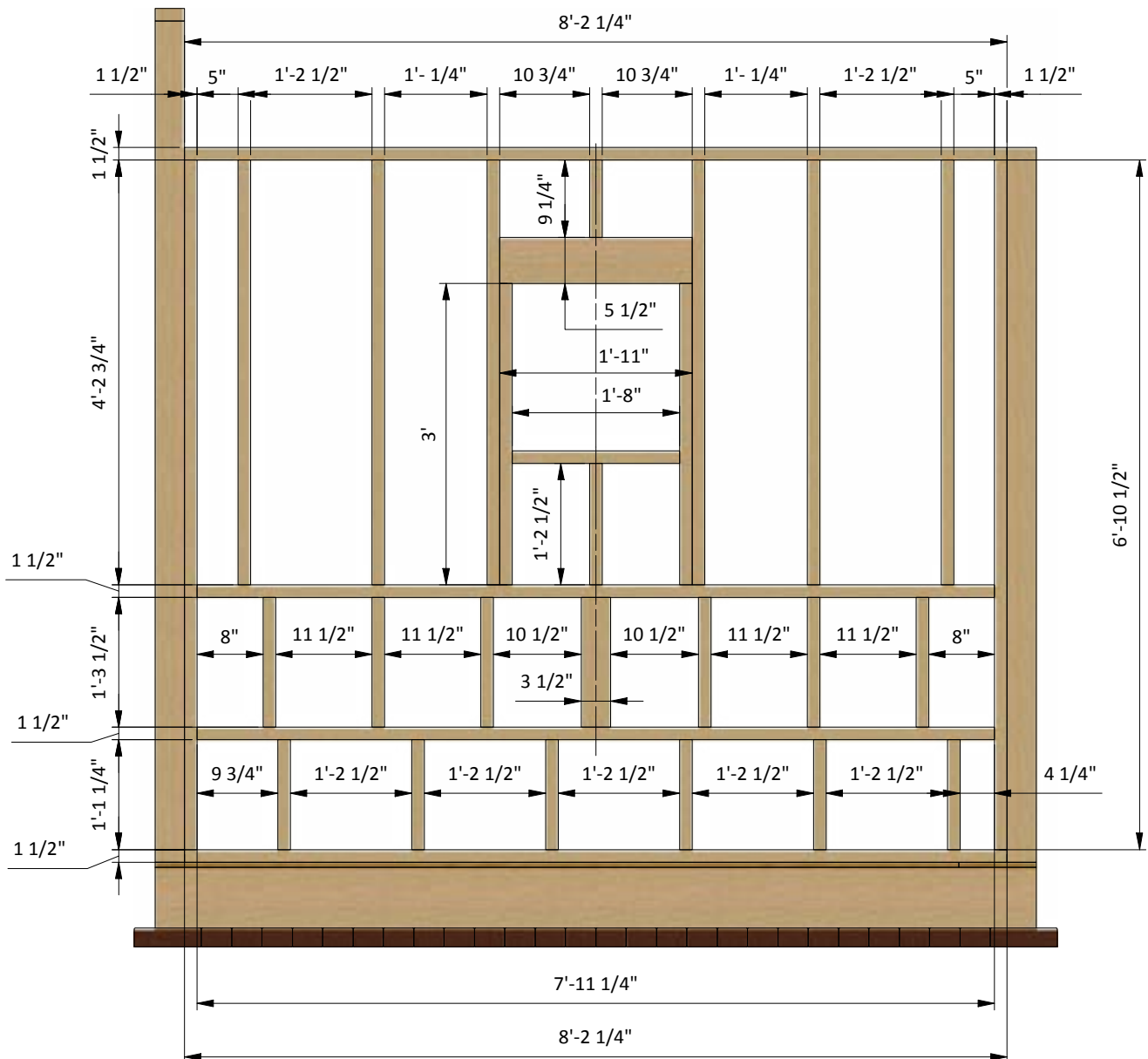
Assemble Right Side Wall Frame

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°.
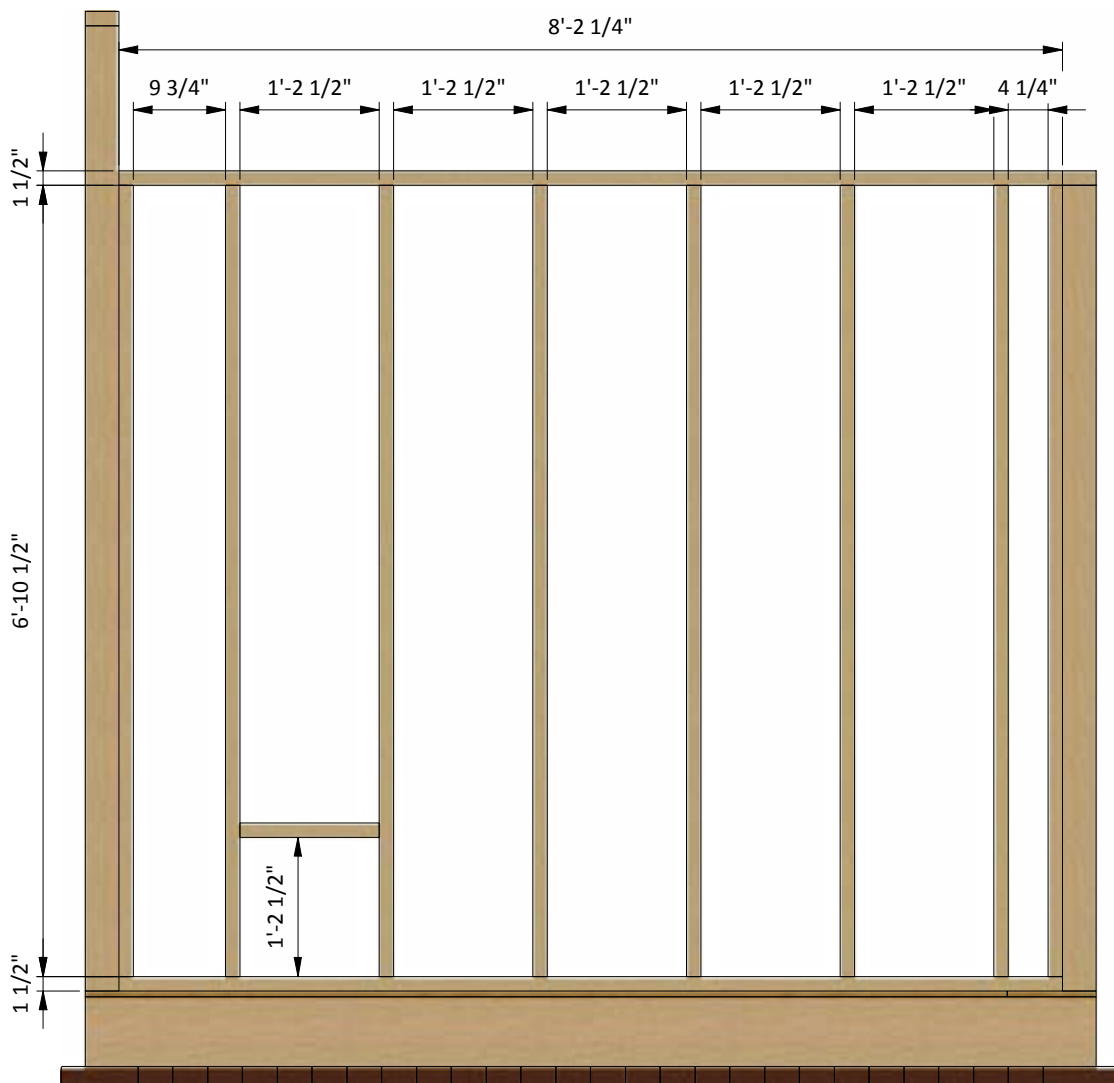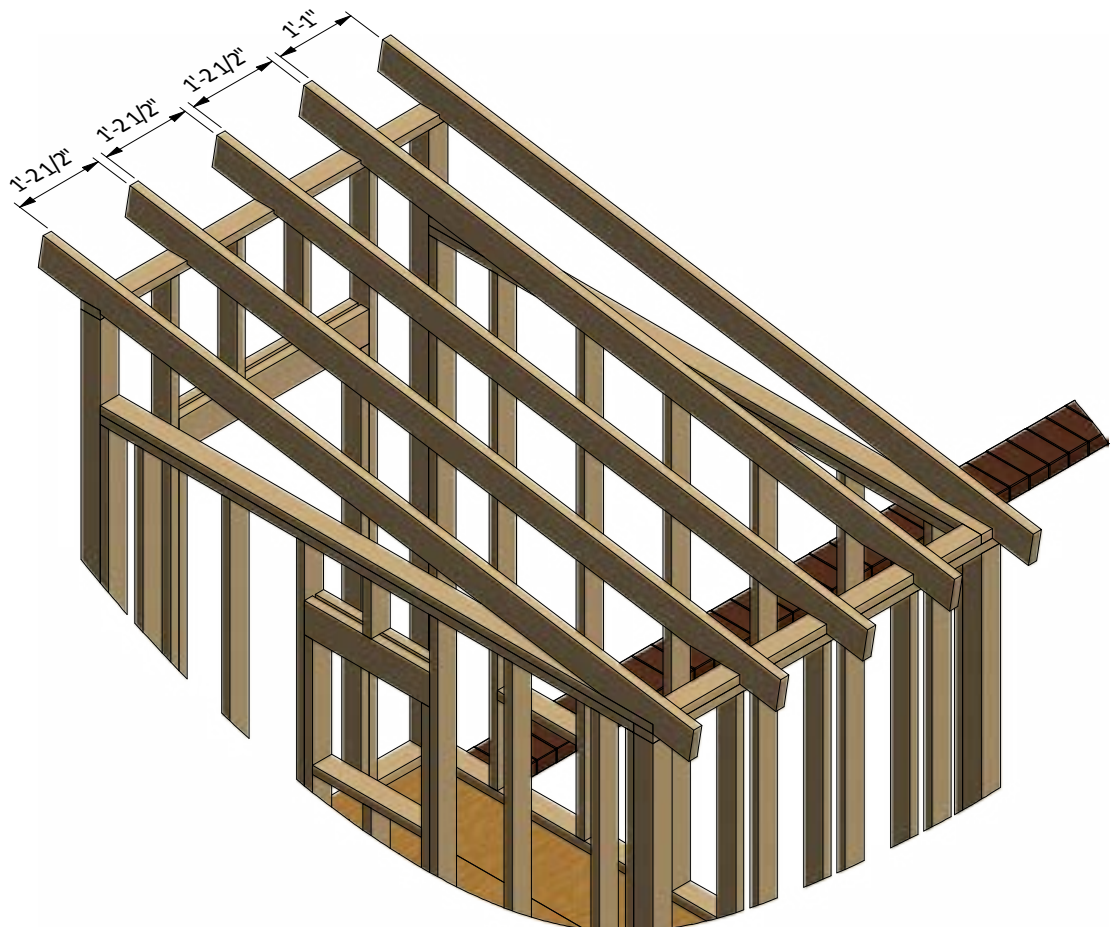
Assemble Left Side Wall Frame

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.

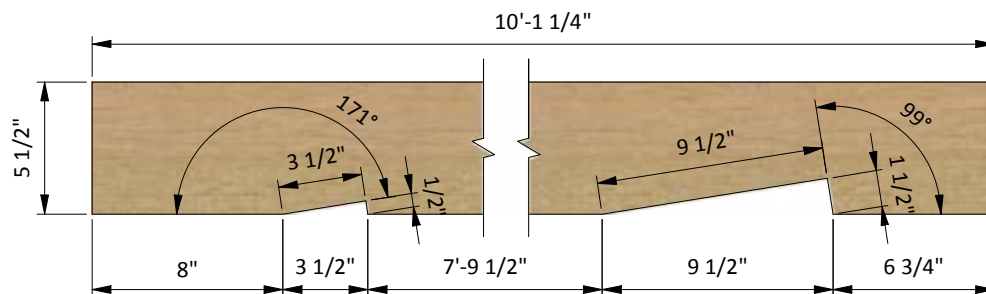**5.3** Using a speed square or carpenter's square, check the corners to make sure they are 90°.

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.
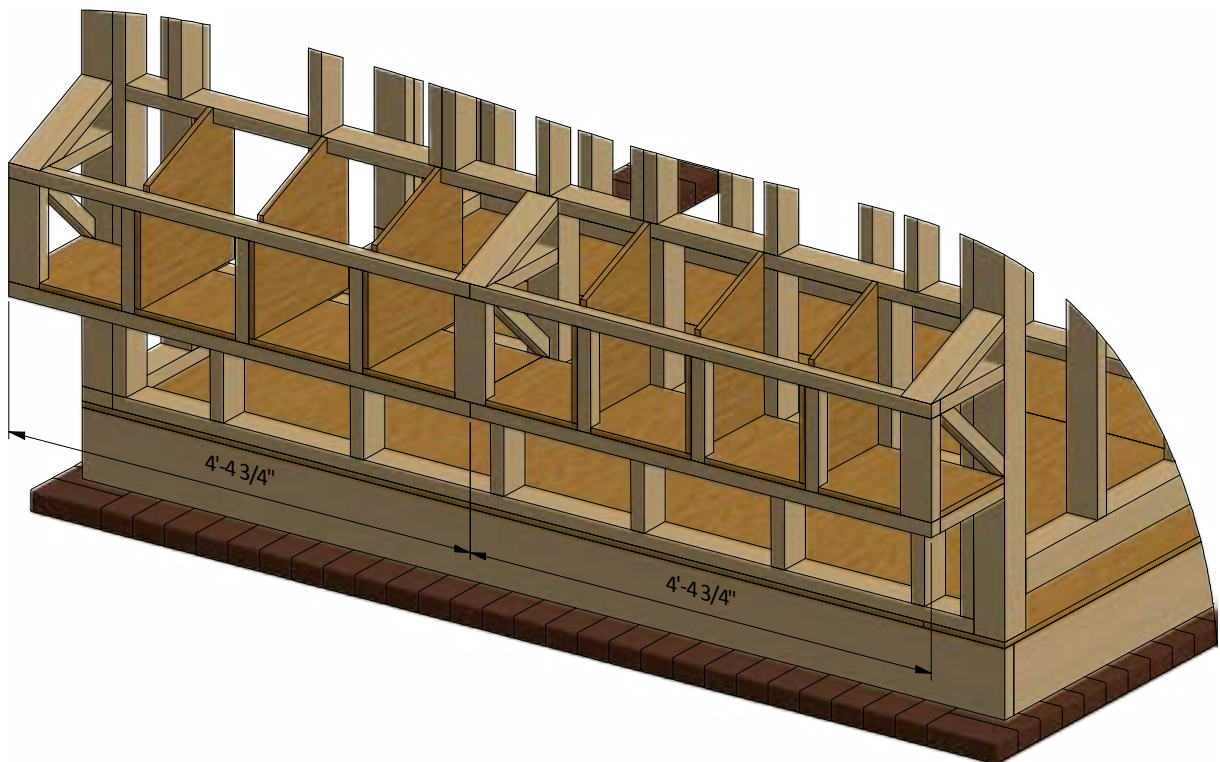
Install Plywood for the Nesting Box

7.1 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.
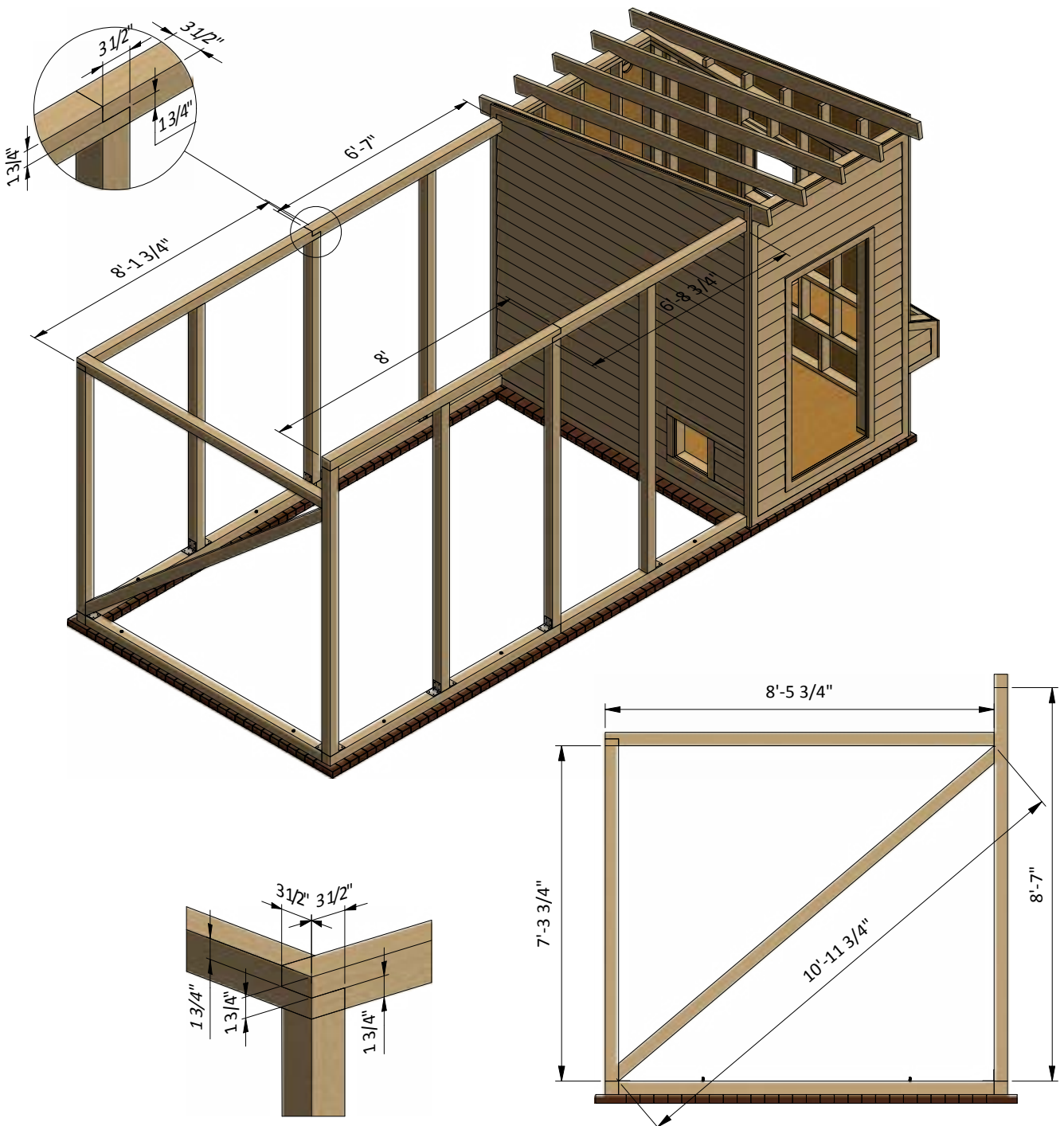
7.2 Secure the plywood with 1" wood screws.

Assemble the Aviary's Top Frame

8.1 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 one board cut to 8'-1 3/4", one board cut to 8', one board cut to 6'-7", one board cut to 6'-8 3/4" and one board cut to 8'-5 3/4".

8.2 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".

8.3 To connect 6'-7" and 6'-8 3/4" beams to the coop's left wall use 3"x3" corner braces.
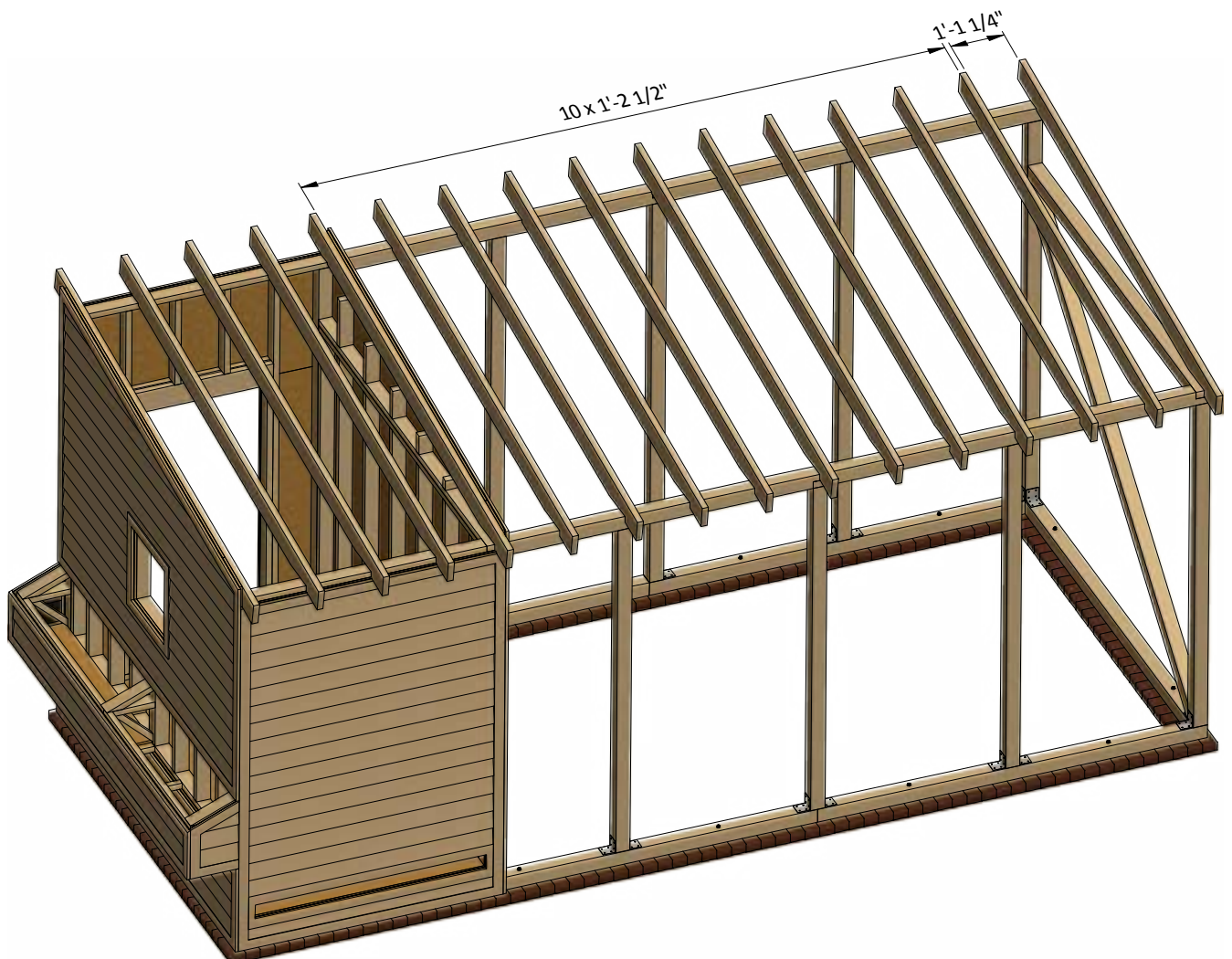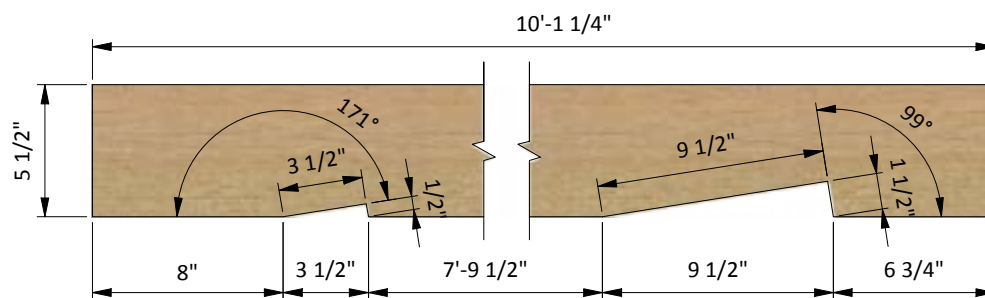To connect other top beams between themselves use half lap connection.

Assemble the Aviary's Roof Frame

9.1 Using 1 1/2" x 5 1/2" pressure-treated lumber, cut eleven 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.

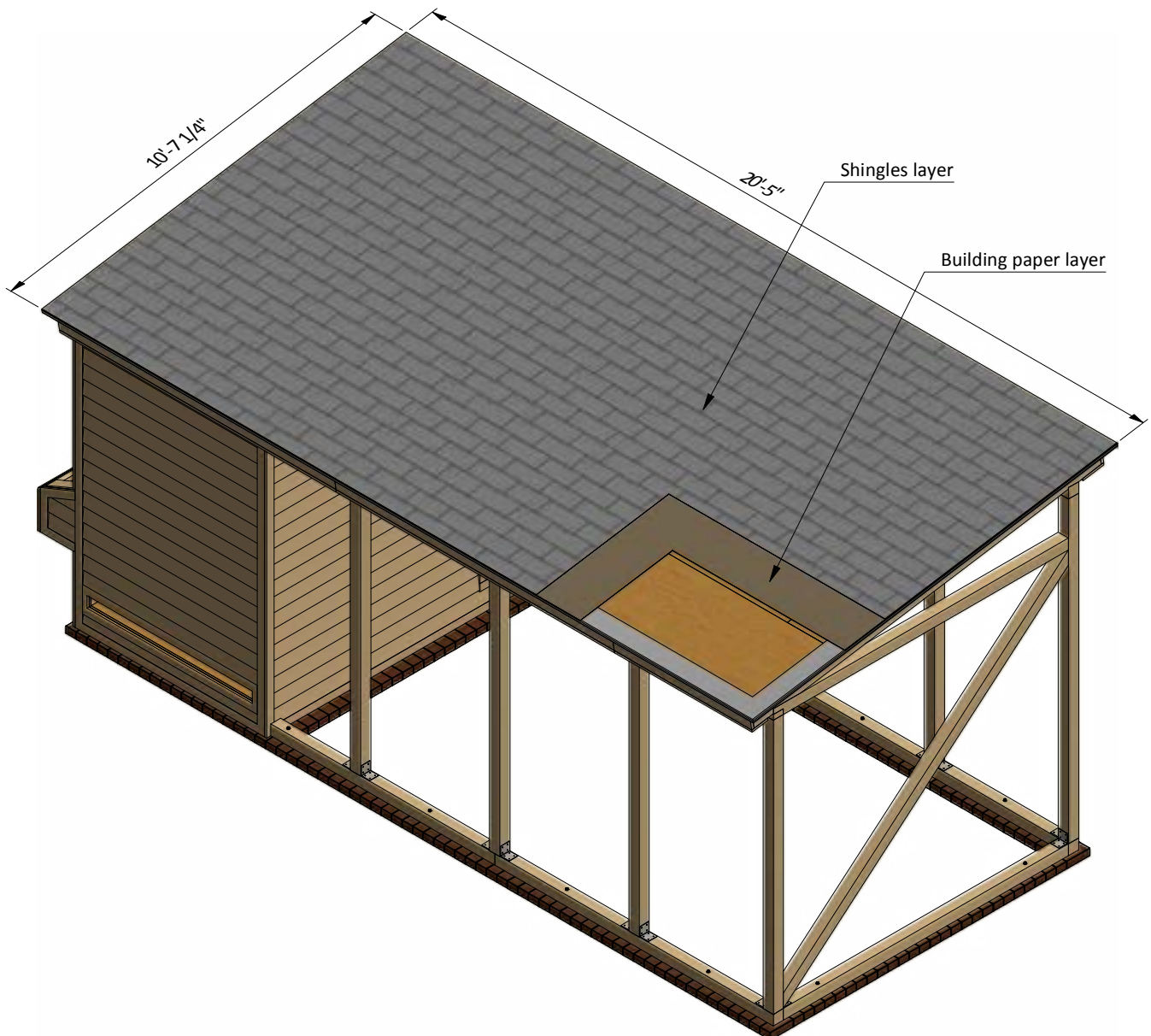**9.2** Connect the beams with a top frame with the help of 5" wood screws.

Coop's Roof Sheathing Installation

10.1 You will need 217 Sq Ft of building paper and asphalt shingle roofing.

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

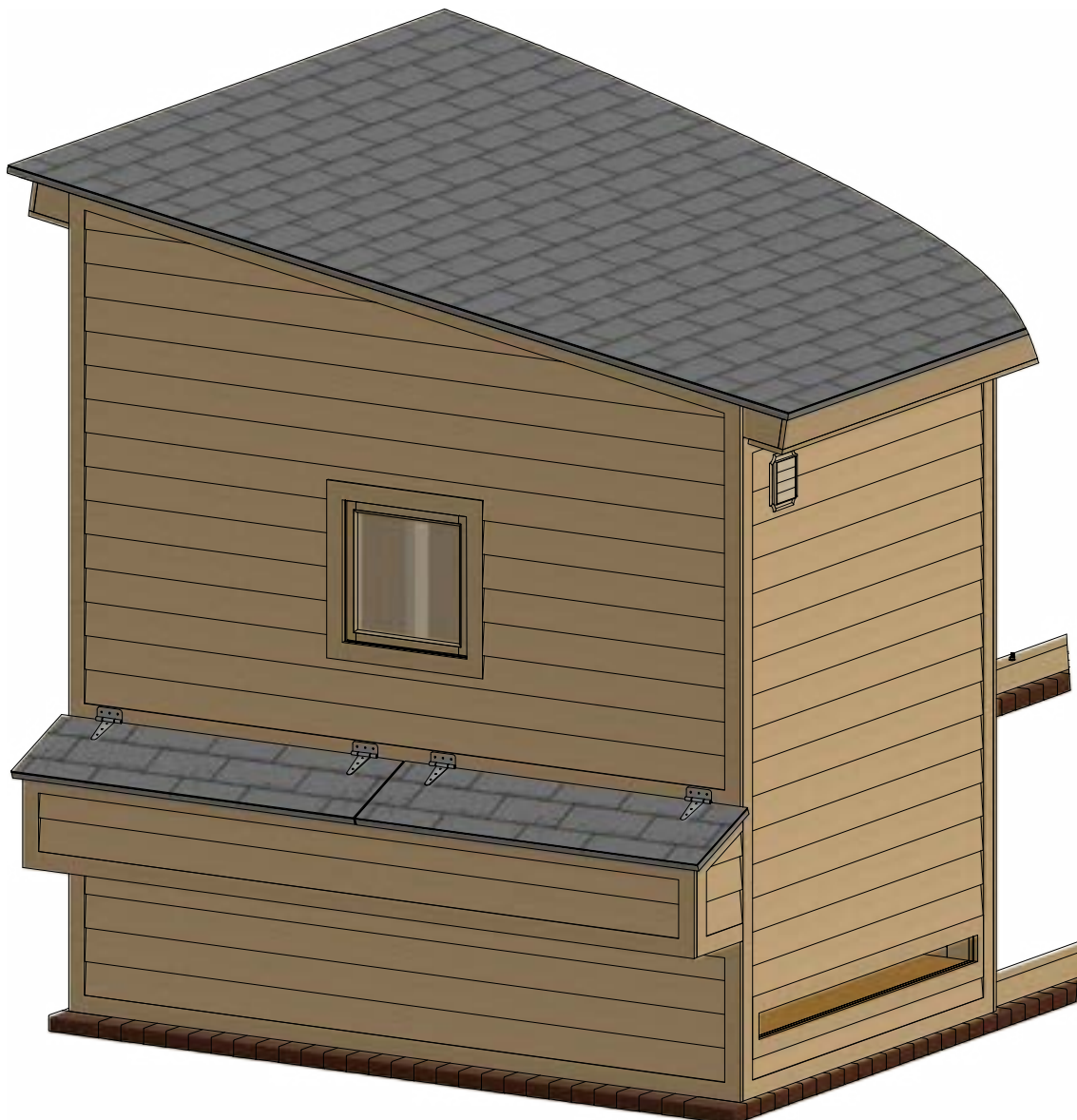**10.3** Install asphalt shingle roofing using an industrial stapler.

Assemble and Install Window

11.1 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.

11.2 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.
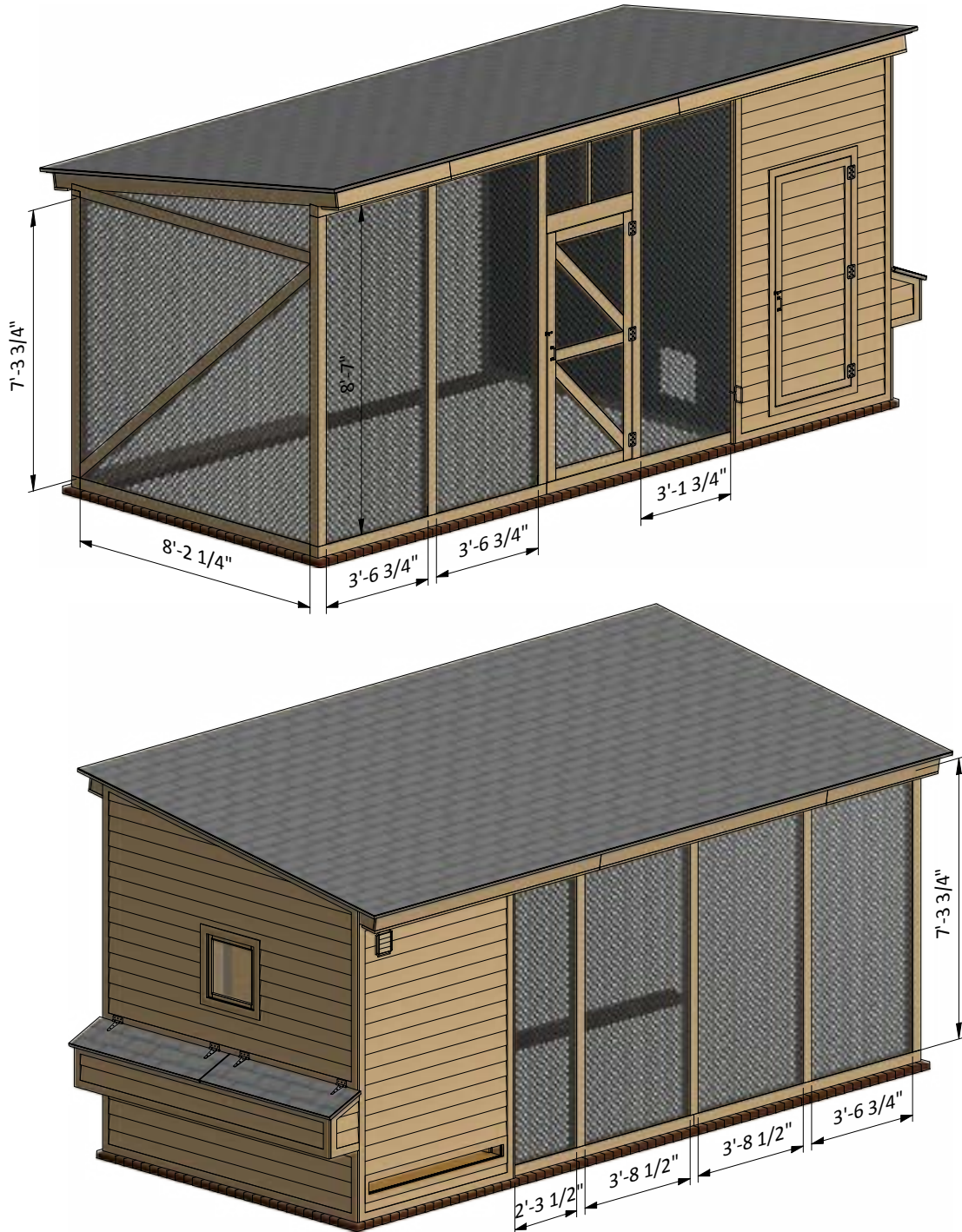
11.3 Insert window into wall openings and connect them with 3" wood screws to the wall beams.

Mesh Wall Installation

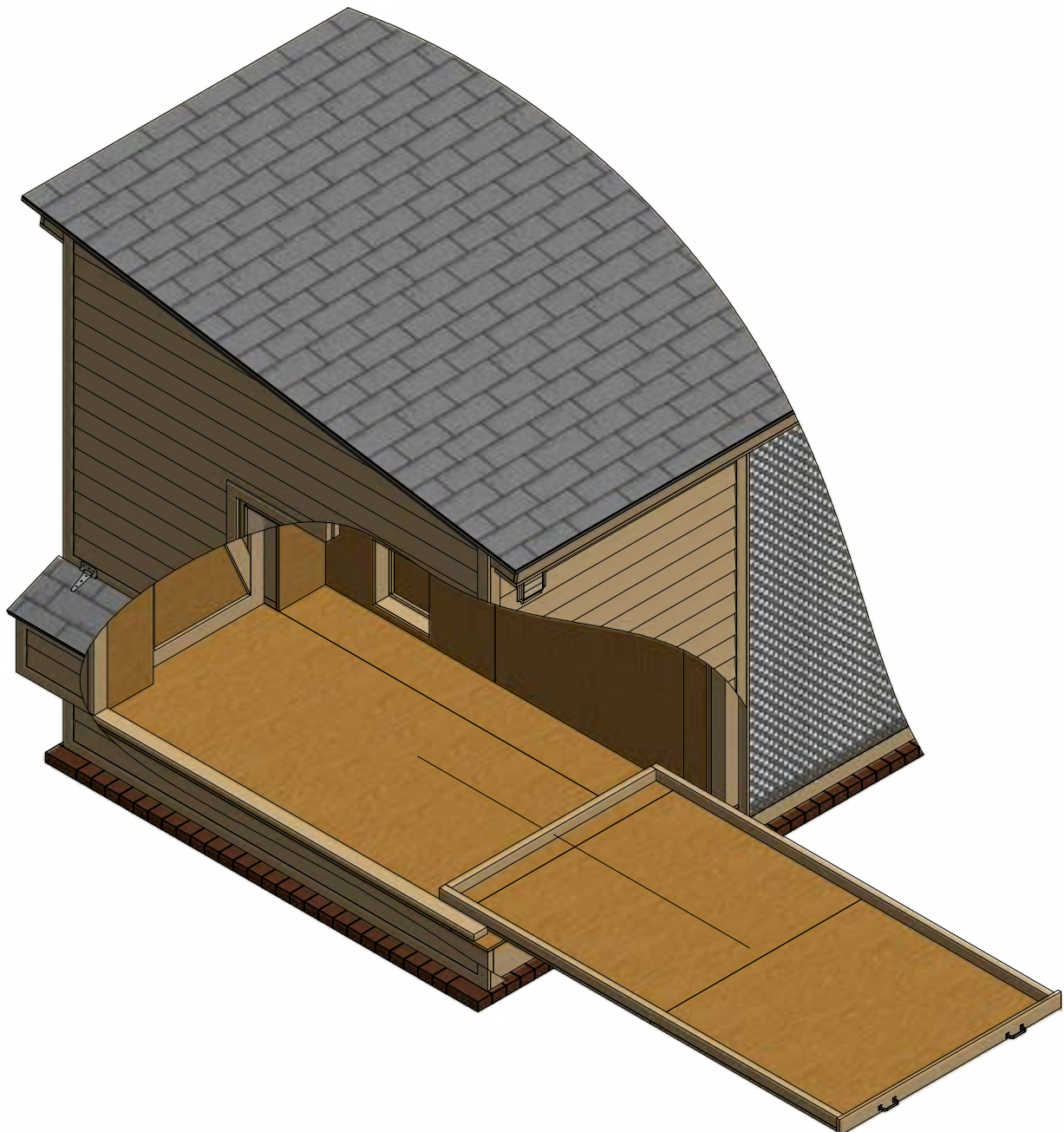**12.1** Cover the walls with 1/4" wire mesh with the help of industrial stapler. You will need 270 sq ft.

Assemble The Litter Tray

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

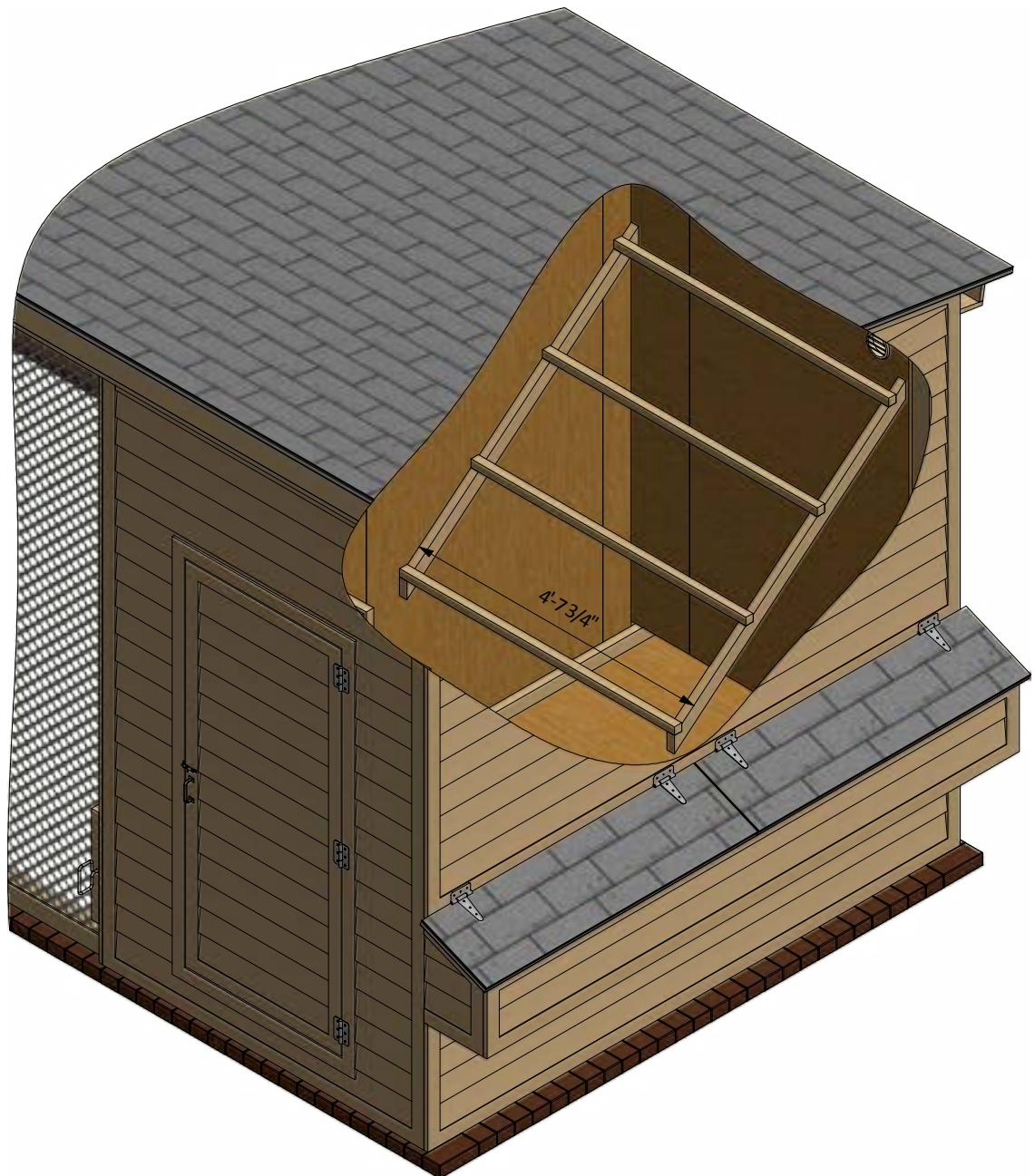**13.2** Connect the beams and plywood with 2" wood screws.

Assemble The Roost

14.1 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".

14.2 Connect the beams with 2" wood screws.

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

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.

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Technical Support	❌	✅

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