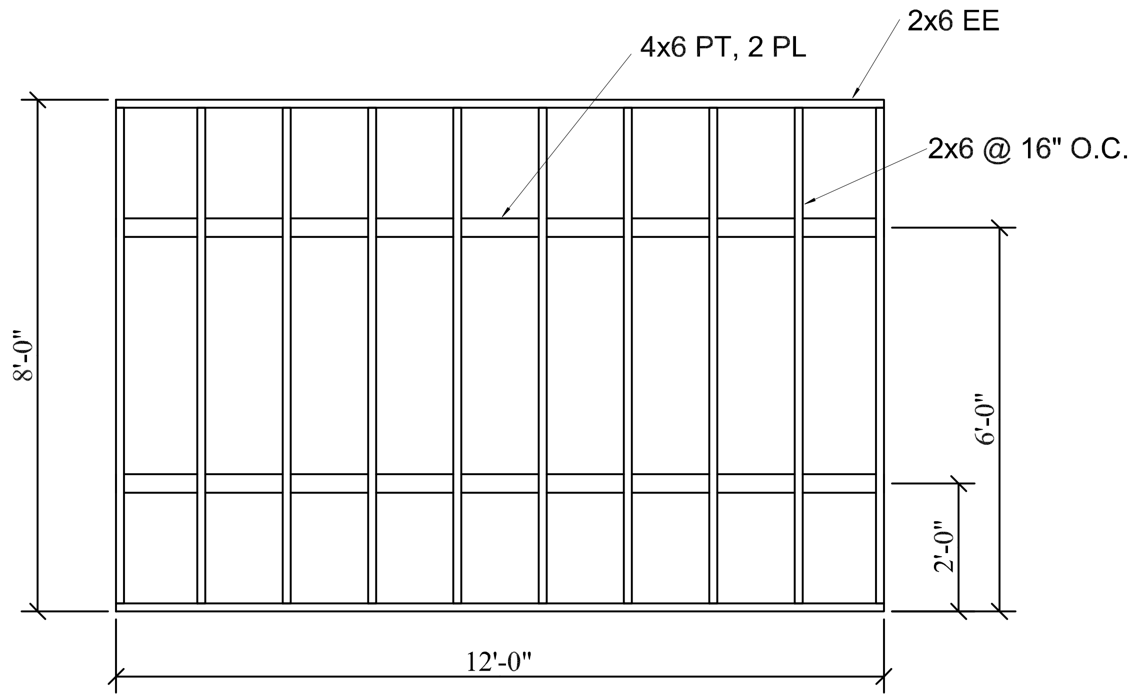
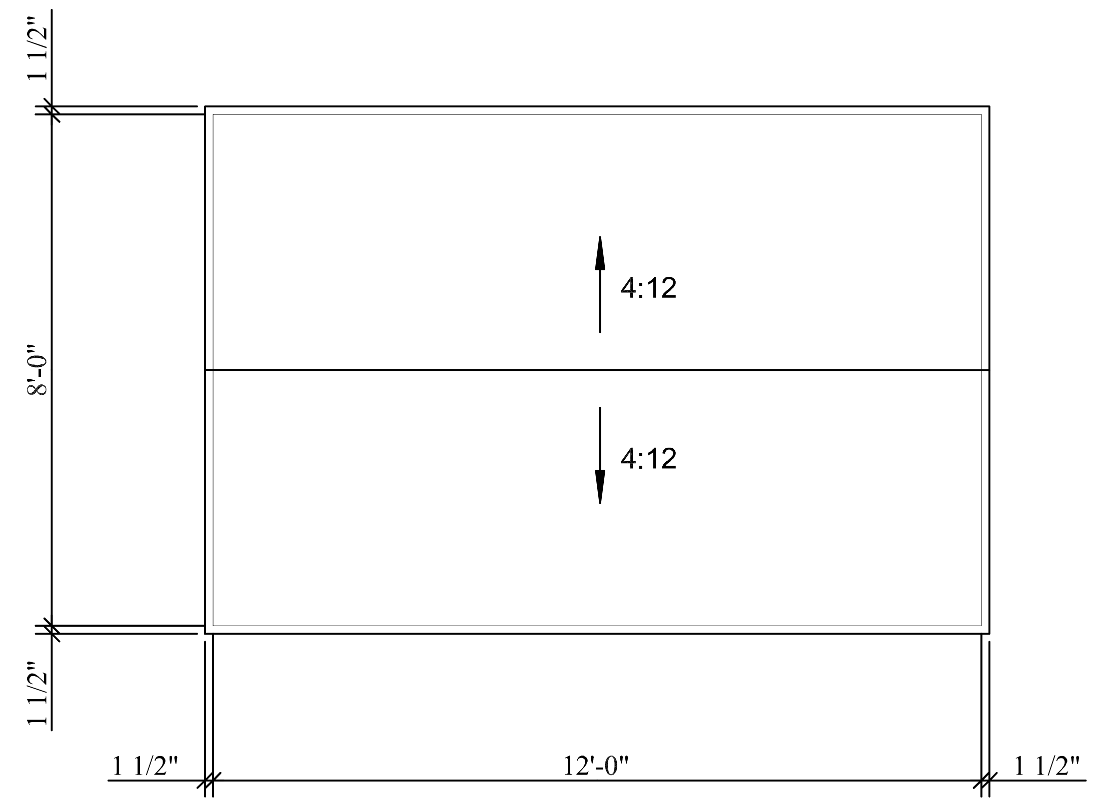
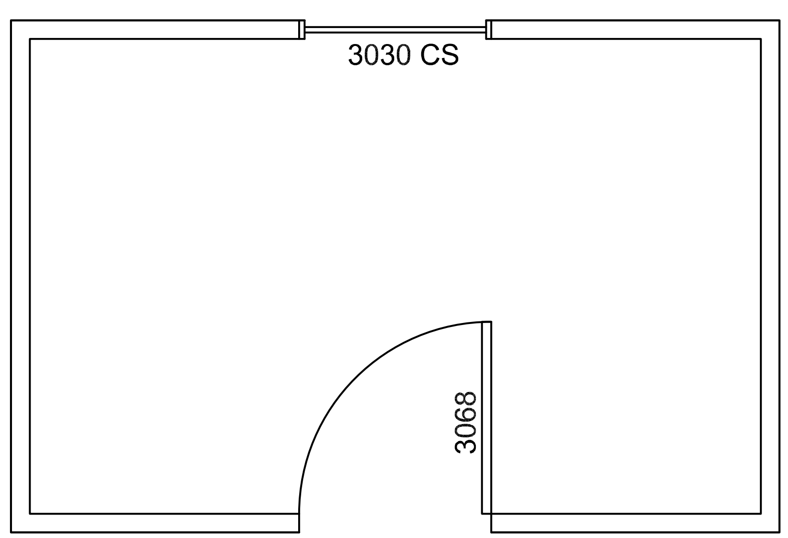


FLOOR FRAMING



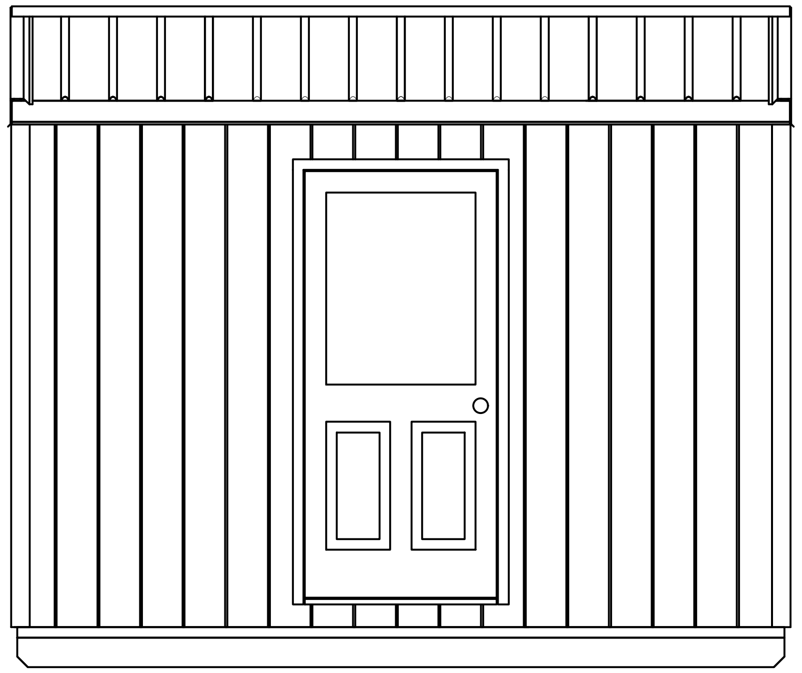
ROOF PLAN



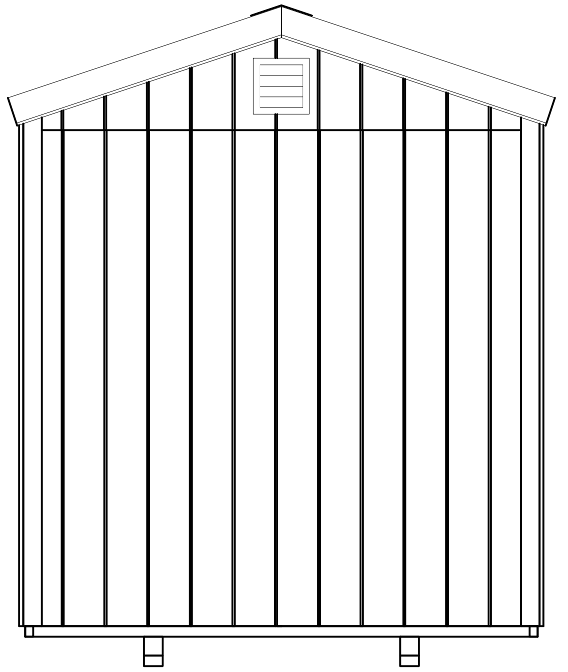
FLOOR PLAN

ECONOMY SHED

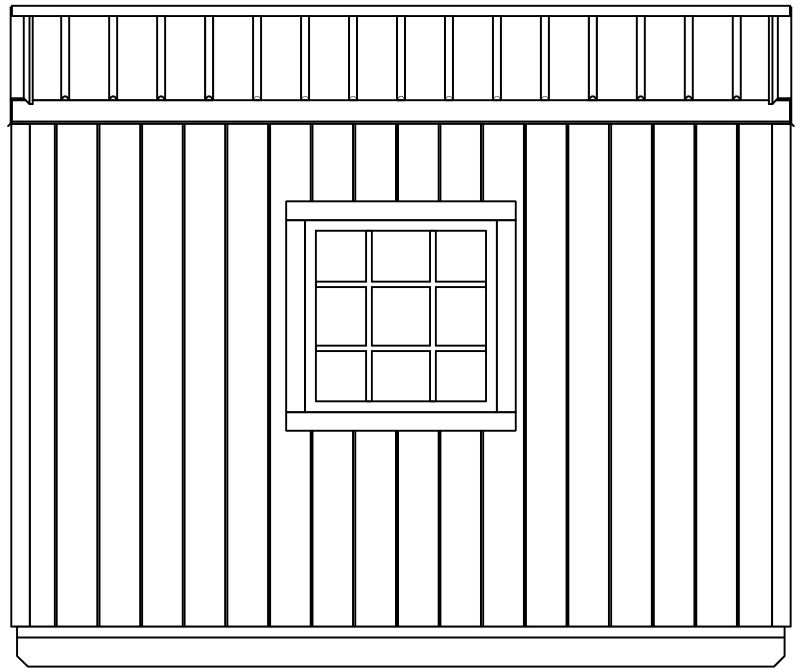
PLAN VIEWS



FRONT ELEVATION



SIDE ELEVATION



REAR ELEVATION

ECONOMY SHED

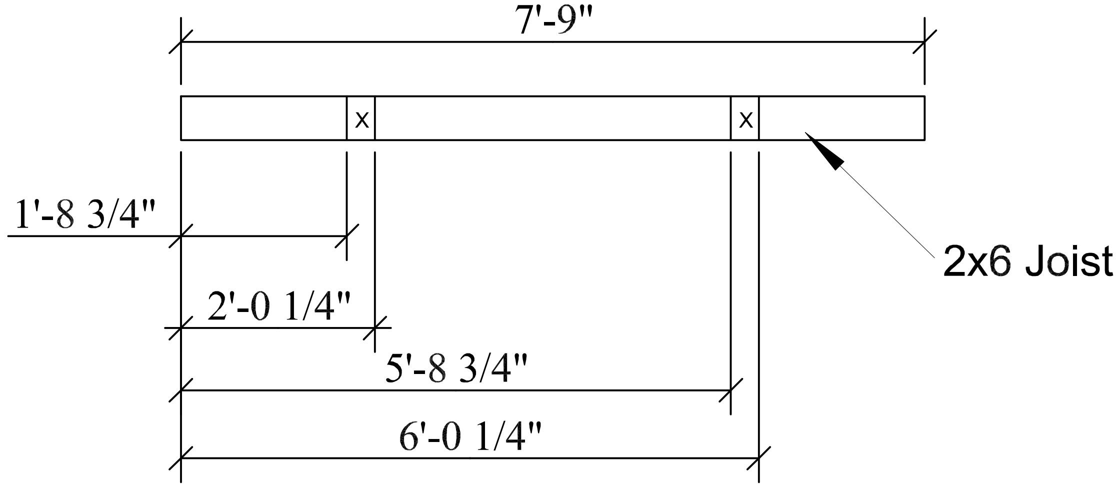
ELEVATIONS

INSTRUCTIONS

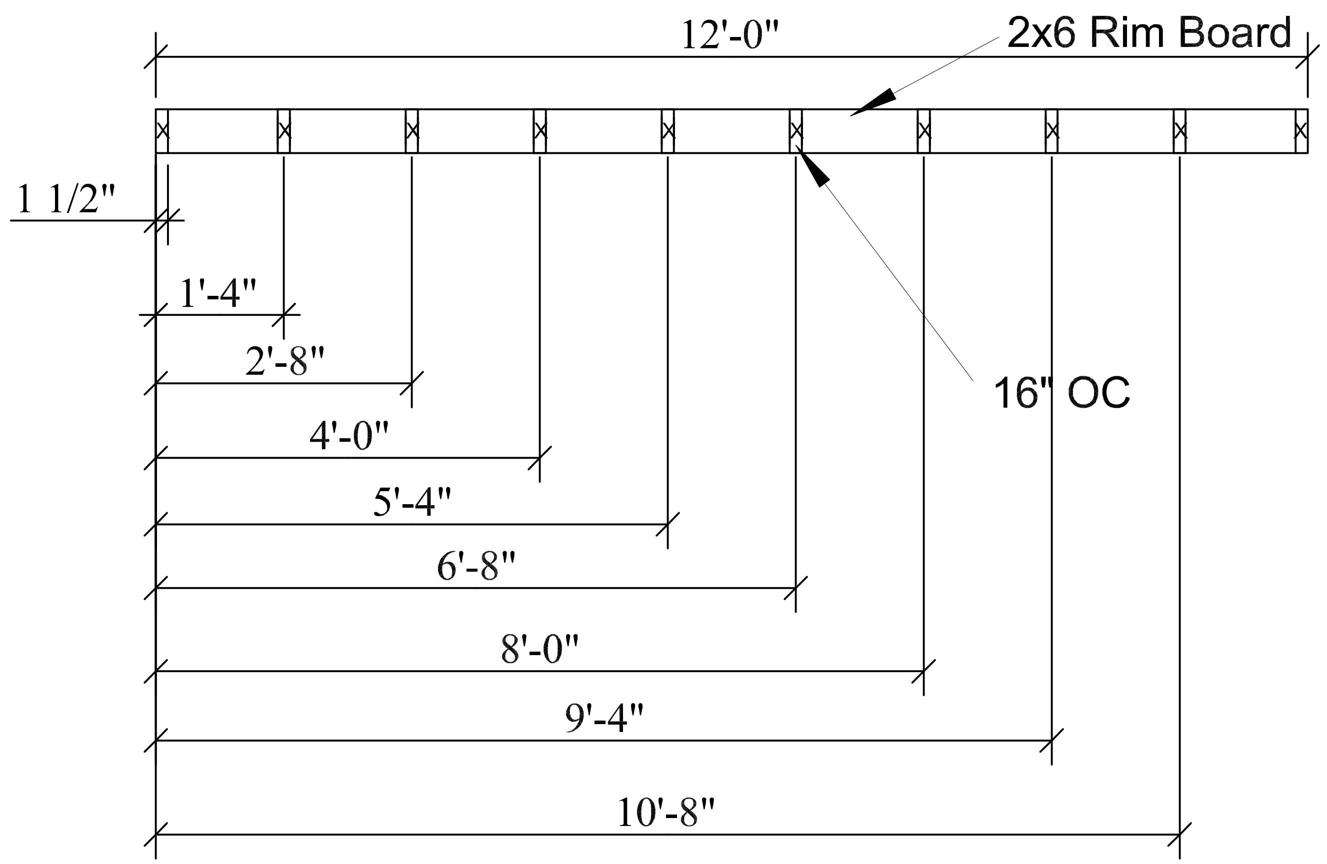
1) Cut a 2" - 45 degree bevel (see Cutting Plan) on both ends of 2 - 4x6 x 12' Skids and lay them out @ 4'-0" OC
2) Cut 10 - 2x6 x 7'-9" Joists from 2x6 x 8's
   Mark Skid locations of on two of these, as shown
3) Mark Joist locations on 2 - 2x6 x 12' Rim Boards, as shown
4) Place the 2x6 Joists on the Skids, as shown
   The marks on the outer Joists will align with the Skids
   The Joists will align with the marks on the Rim Boards
5) Square the assembly by checking the diagonal dimensions
6) Attach the Rim Boards to the Joists using 2 framing nails at each joint
7) Ensure that the assembly is square
8) Attach the Joists to the Skids, toenailing using 2 framing nails at each joint

MATERIALS LIST

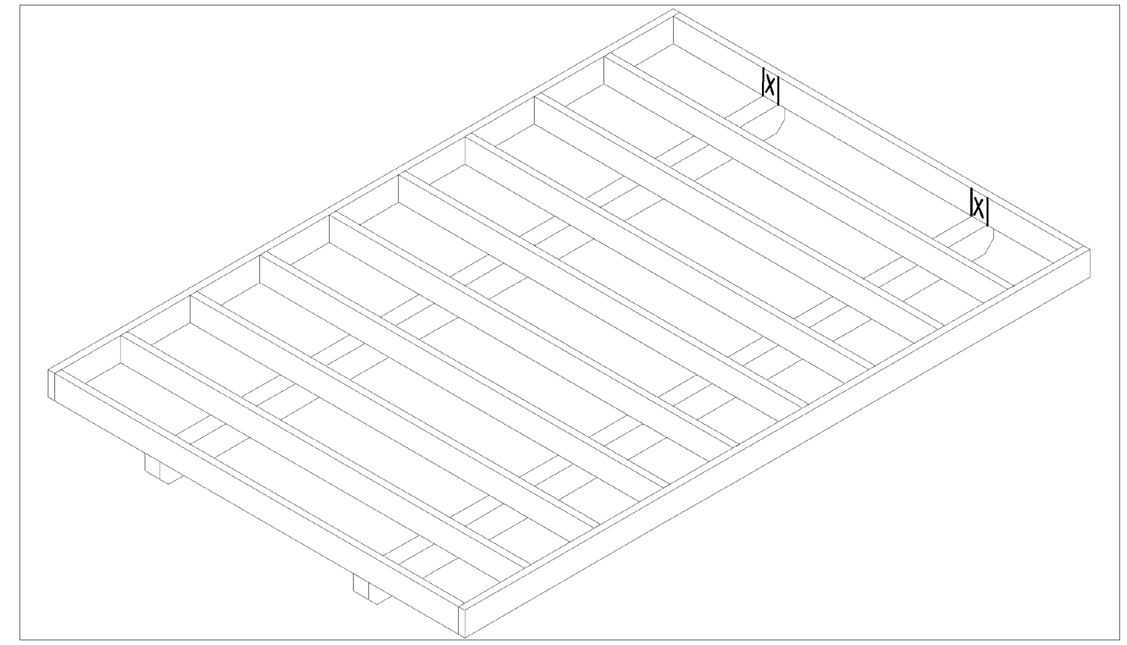
2	4x6 x 12' PT
10	2x6 x 8' PT
2	2x6 x 12' PT
70	Galvanized Framing Nails



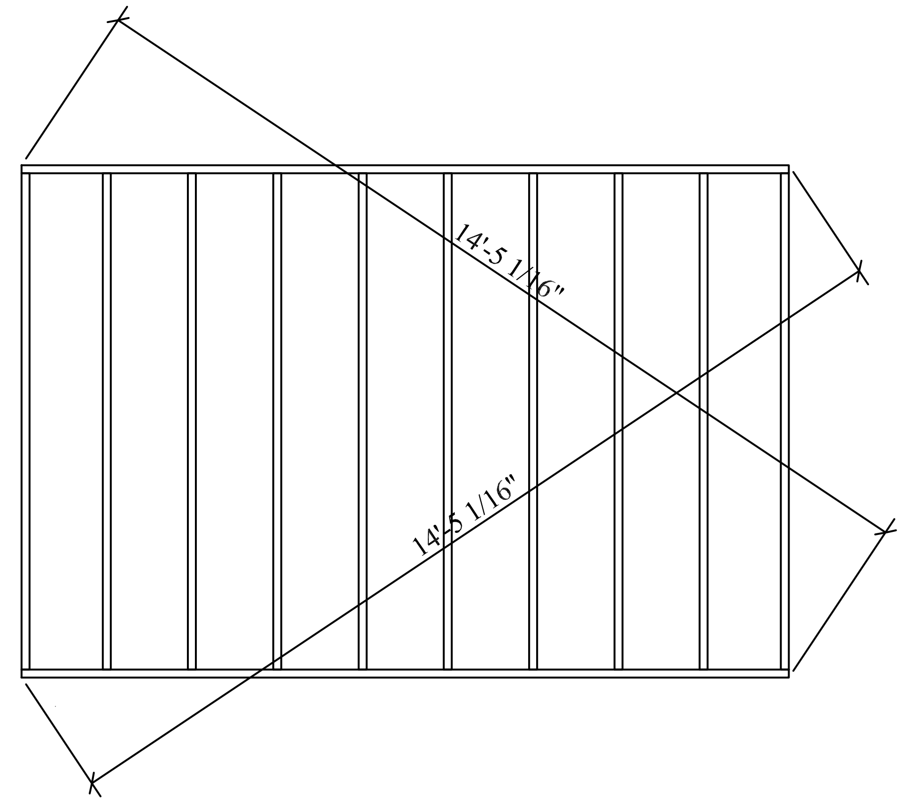
SKID LOCATIONS



JOIST LOCATIONS



JOIST PLACEMENT



FLOOR FRAMING DIAGONALS

ECONOMY SHED

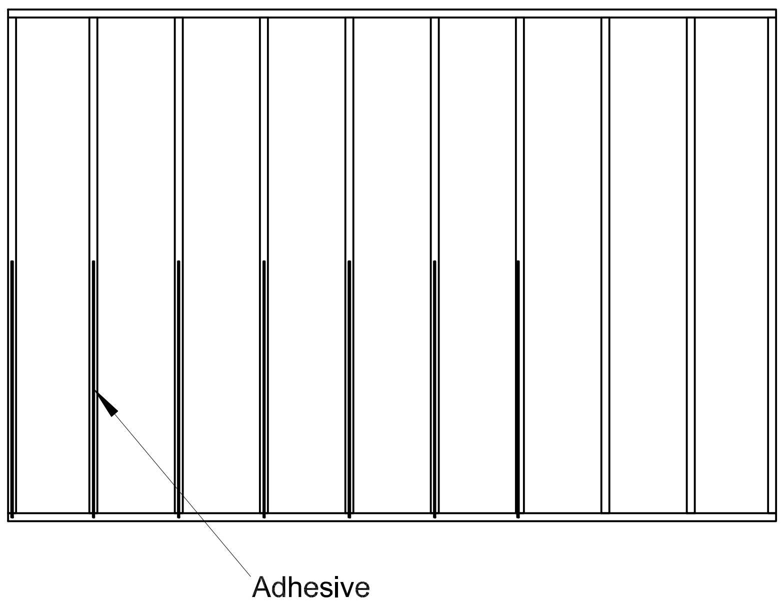
STEP 1: FRAME FLOOR

INSTRUCTIONS

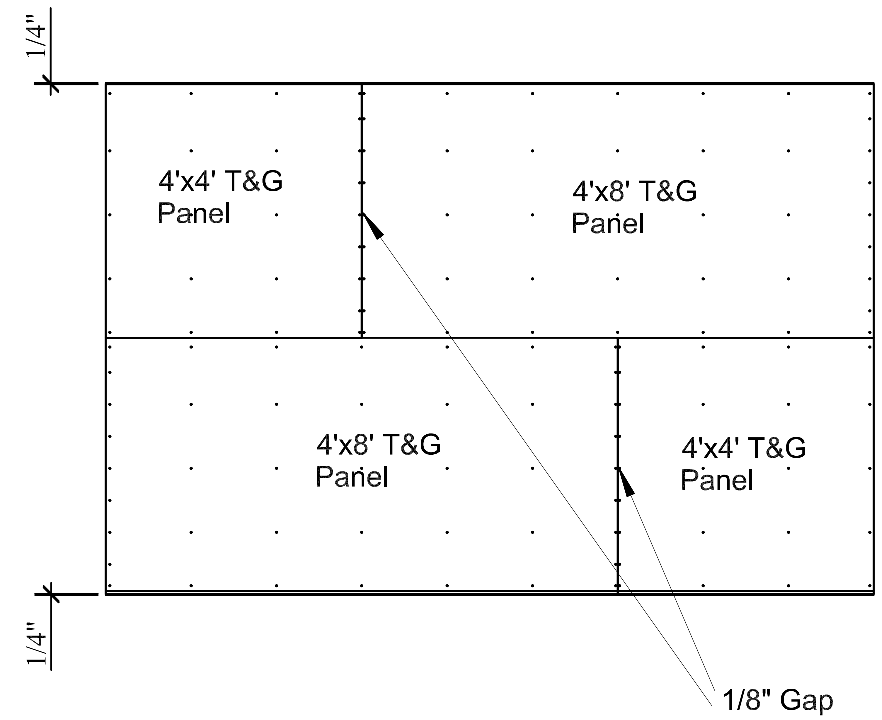
1) Apply a 4' bead of adhesive to each of the 7 Joists under the location of the first Panel, as shown
2) Place the first sheet of 4'x8' Tongue and Groove sheathing on the floor Joists, as shown
3) Leave a 1/4" gap at the tongue end, as shown, because the net width of the T&G Panels is 47 1/2"
4) Fasten the Panel to the Joists in accordance with manufacturer recommendations
   Fasteners should be approved for use in treated lumber. Screws are usually preferred.
   A typical fastener pattern is shown
5) Cut a 4x8 sheet of sheathing in half
6) Apply another 4' bead of adhesive to each Joist under subsequent Panels before placement
7) Place a 4x4 Panel 1/8" to the right of the first Panel and fasten it
8) Place the other 4x4 Panel and tap it to seat the tongue in the first Panel
   Use a wood block between the groove and the hammer to avoid damage
9) Fasten the third Panel
10) Install the final 4x8 Panel
   There should be a 1/4" gap between the groove of the last Panel and the outer edge of the Rim Board, as shown

MATERIALS LIST

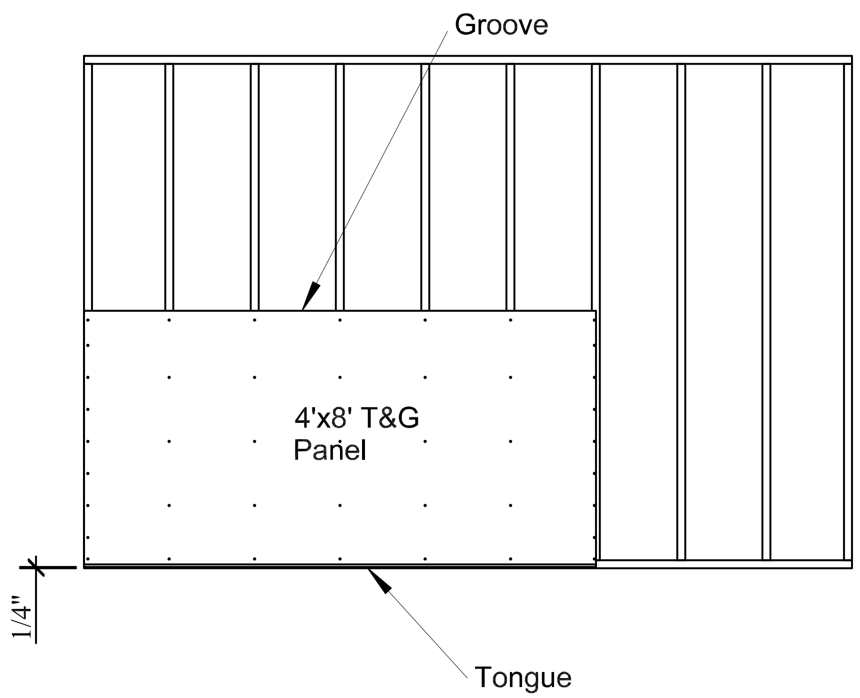
3	4' x 8' Tongue and Groove Floor Panels
2	Adhesive, tube
150	2-1/2" Screws



FLOOR ADHESIVE



COMPLETED FLOORING



ATTACH FIRST FLOOR PANEL

ECONOMY SHED

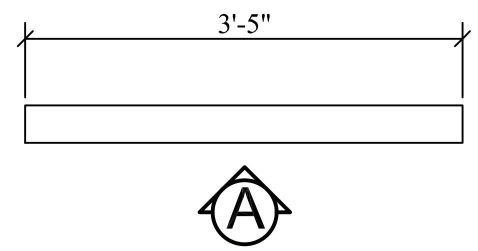
STEP 2: PLACE FLOOR

INSTRUCTIONS

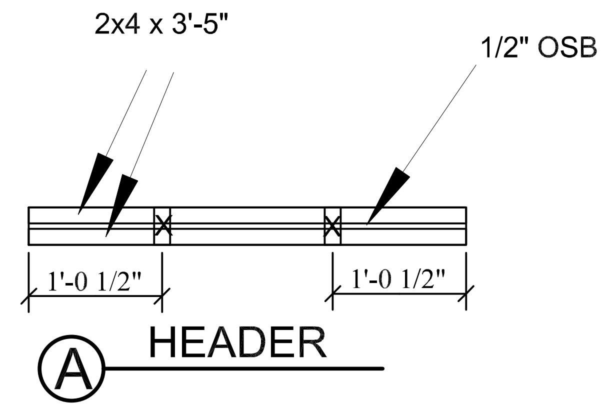
1) Cut 2 - 2x4 x 12' to exactly 12' long and 14 - 2x4 x 8' to 7'-3 1/4" long
2) Mark the location of studs on the Top and Bottom Plates as shown
   Note that dimensions are to the center of single studs and the center of the double studs
3) Cut 2 - 2x4 x 8' into 2 - 2x4 x 6'-9" Jack Studs and 2 - 2x4 x 2 3/4" Cripples
4) Cut 1 - 2x4 x 8' into 2 - 3'-5" Header components
5) Cut a 3 1/2" x 3'-5" piece of 1/2" OSB
6) Assemble the Header, as shown, driving 3 framing nails through each side
   and mark Cripple locations
7) Assemble the door frame -- Header, King studs and Jack studs -- with framing nails
8) Insert the door frame and other studs between the Plates at the marked locations
   and drive 2 framing nails into each joint
9) Cut 1 - 2x4 x 11'-5" from a 2x4x12', mark rafter locations as shown and attach
   this Upper Top Plate (UTP) to the Lower Top Plate (LTP), as shown

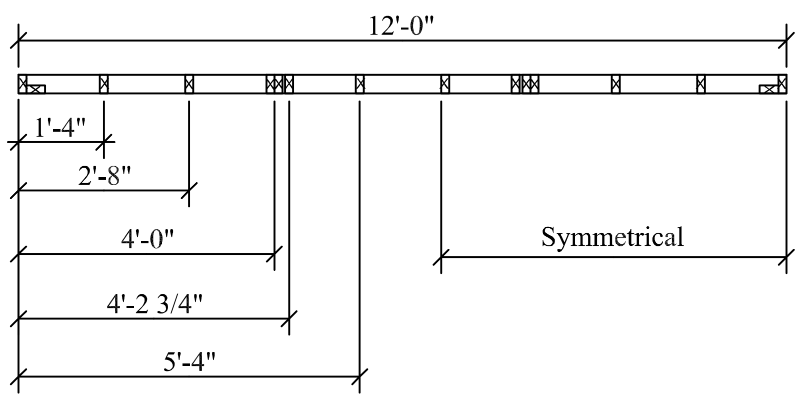
MATERIALS LIST

17	2x4 x 8'
3	2x4 x 12'
1	3 1/2" x 3'-5" 1/2" OSB
100	Framing Nails

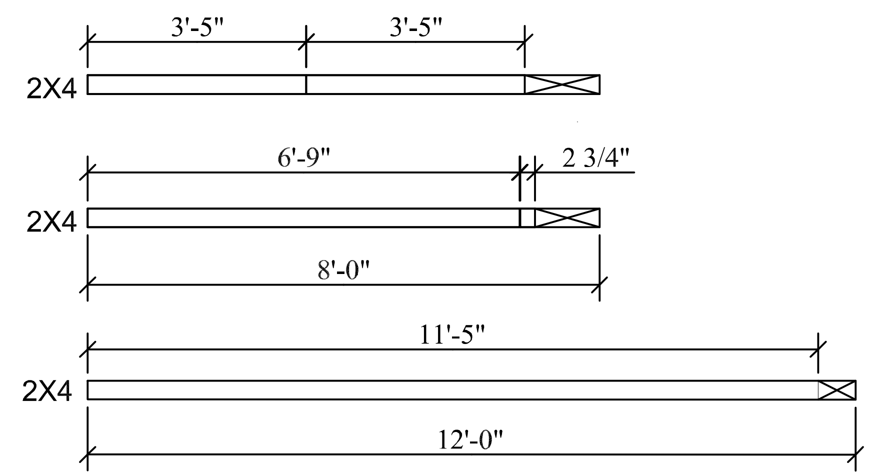


HEADER

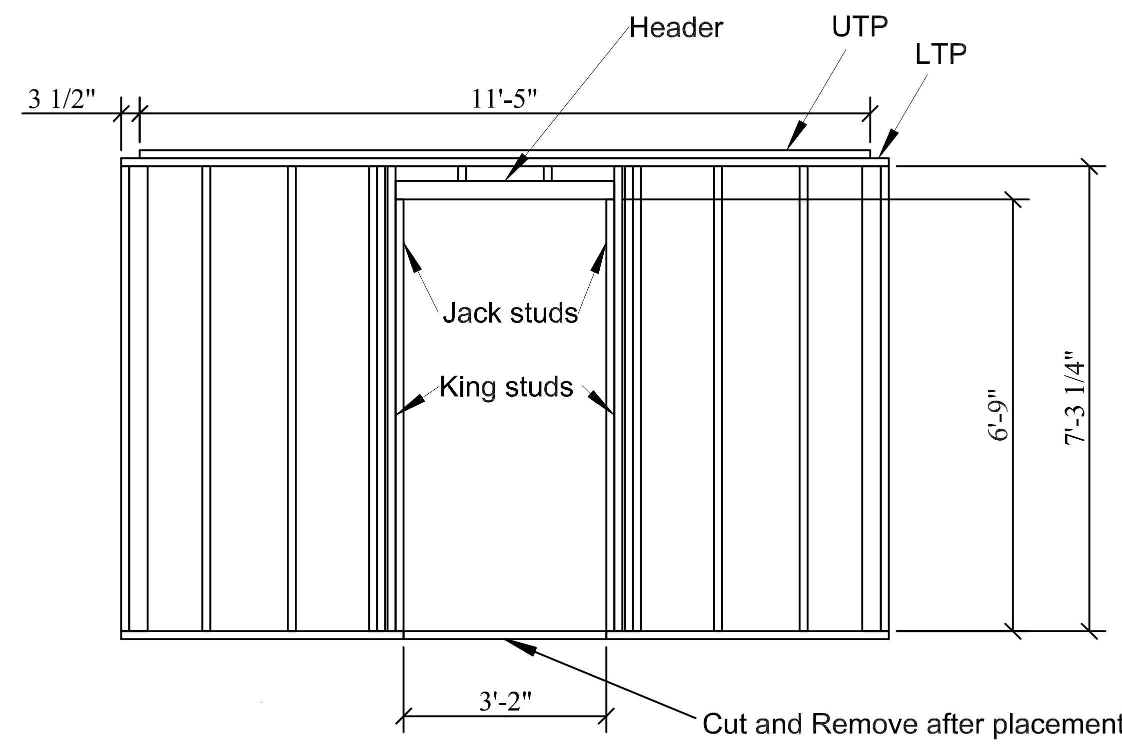




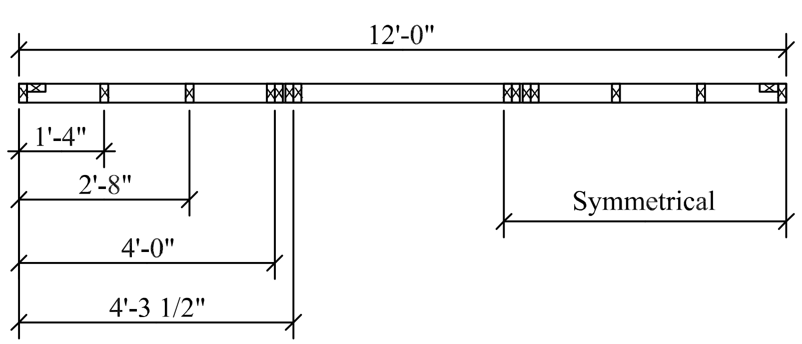
TOP PLATE



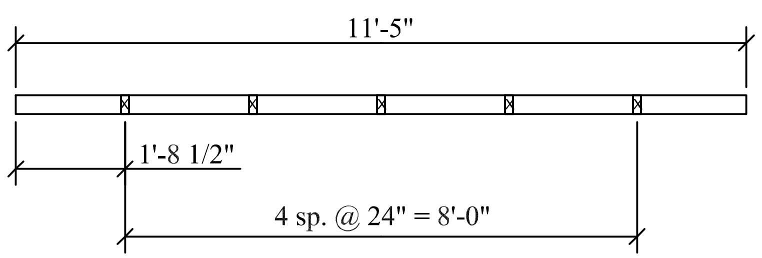
CUTTING PLAN



FRONT WALL FRAME



BOTTOM PLATE



UPPER TOP PLATE - RAFTER LOCATIONS

ECONOMY SHED

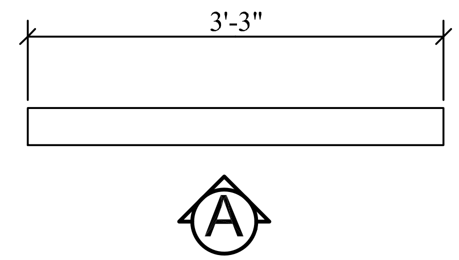
STEP 3a: FRAME WALLS

INSTRUCTIONS

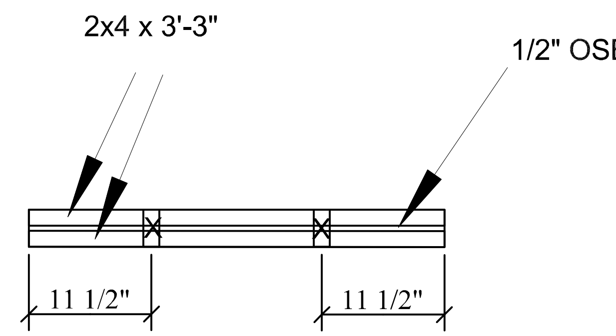
1) Cut 2 - 2x4 x 12' to exactly 12' long and 14 - 2x4 x 8' to 7'-3 1/4" long
2) Mark the location of studs on the Top and Bottom Plates as shown
   Note that dimensions are to the center of single studs and the center of the double studs
3) Cut 1 - 2x4 x 12' into 2 - 2x4 x 5'-10 1/2" Jack Studs and mark the location of the Rough Sill
4) Cut 1 - 2x4 x 8' into 2 - 2x4 x 2'-9" Cripples and 2 - 2x4 x 1'-1 1/4" Cripples
5) Cut 1 - 2x4 x 10' into 2 - 3'-3" Header components and a 3'-0" piece Rough Sill
   Mark Cripple locations on the Rough Sill, as shown
6) Cut a 3 1/2" x 3'-3" piece of 1/2" OSB
7) Assemble the Header, as shown, driving 3 framing nails through each side
   Mark Cripple locations, as shown
8) Assemble the window frame -- Header, Rough Sill, King studs and Jack studs -- with framing nails
9) Insert the window frame and other studs between the Plates at the marked locations
   and drive 2 framing nails into each joint
10) Toenail the bottom of the Cripples to the Header and top of Cripples to the Rough Sill
11) Cut 1 - 2x4 x 11'-5", mark as shown in Step 3a and attach to the Lower Top Plate, as shown

MATERIALS LIST

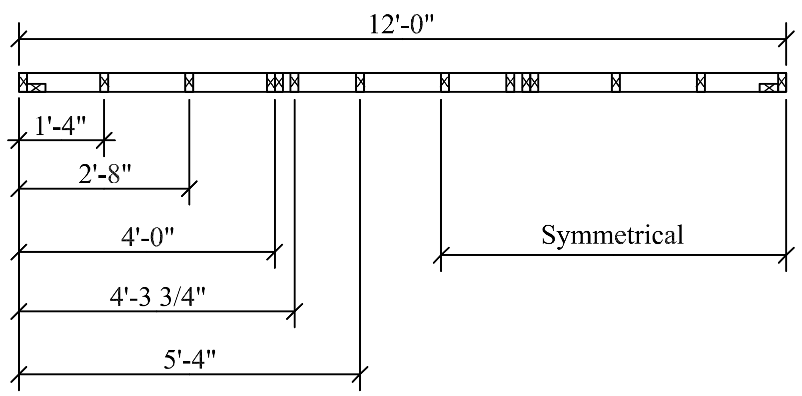
15	2x4 x 8'
1	2x4 x 10'
4	2x4 x 12'
1	3 1/2" x 3'-3" 1/2" OSB
100	Framing Nails



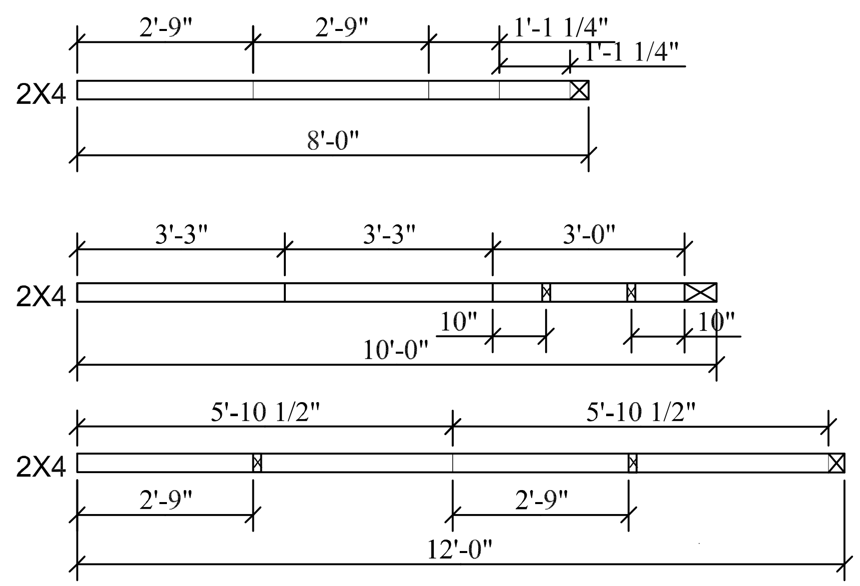
HEADER



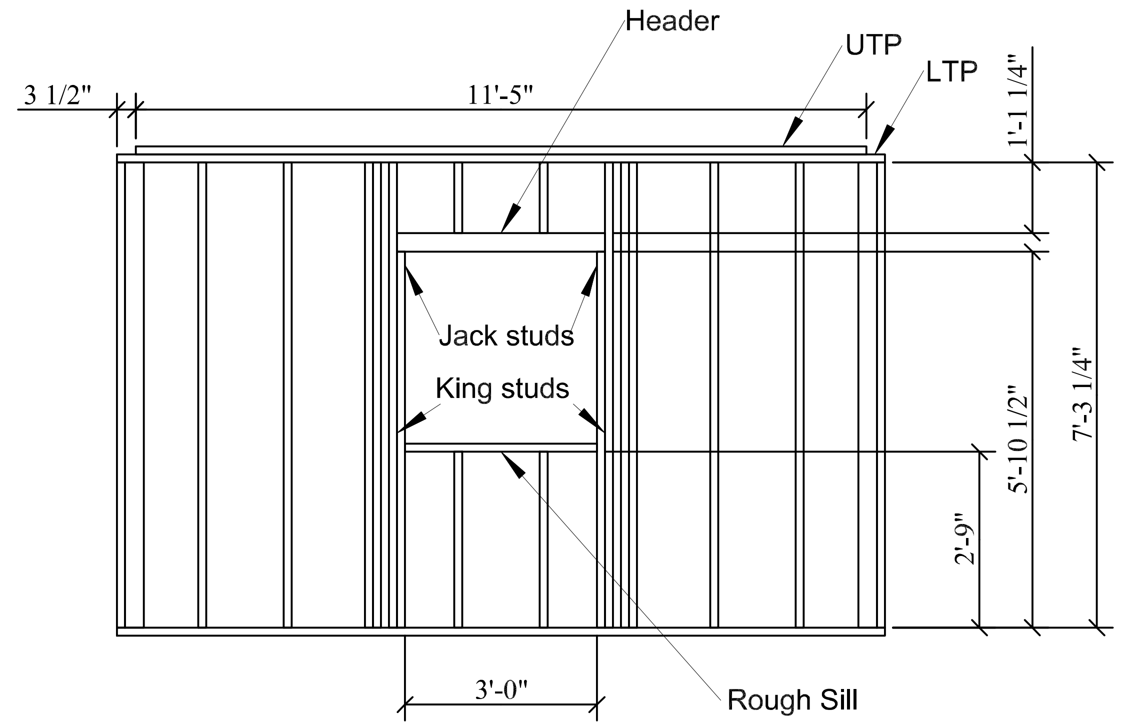
A HEADER



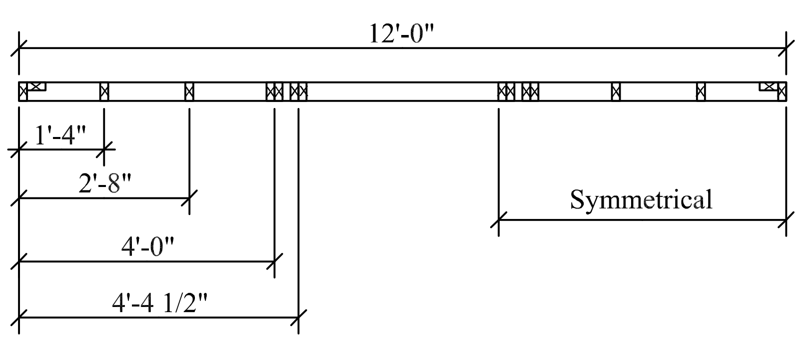
TOP PLATE



CUTTING PLAN



REAR WALL FRAME



BOTTOM PLATE

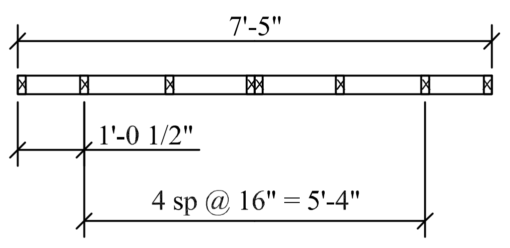
ECONOMY SHED
STEP 3b: FRAME WALLS

INSTRUCTIONS

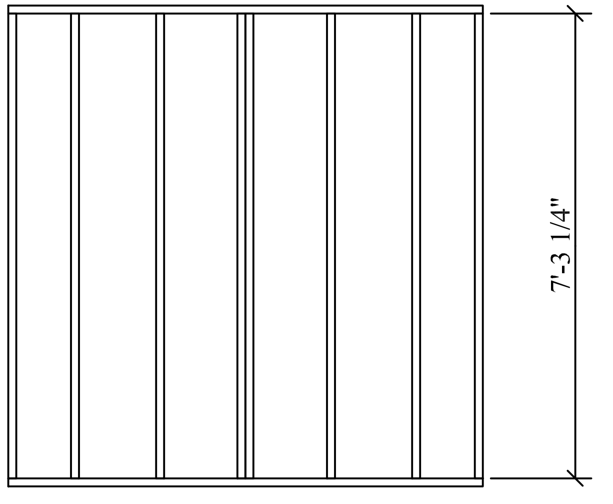
1) Cut 4 - 2x4 x 8' to 7'-5" long and 16 - 2x4 x 8' to 7'-3 1/4" long
2) Mark the location of studs on the Top and Bottom Plates, as shown
   Note that dimensions are to the center of single studs and the center of the double studs
3) Insert the studs between the Plates at the marked locations
   and drive 2 framing nails into each joint
4) Repeat for the second Side Wall

MATERIALS LIST

20	2x4 x 8'
80	Framing Nails



TOP/BOTTOM PLATES



SIDE WALL FRAME

ECONOMY SHED

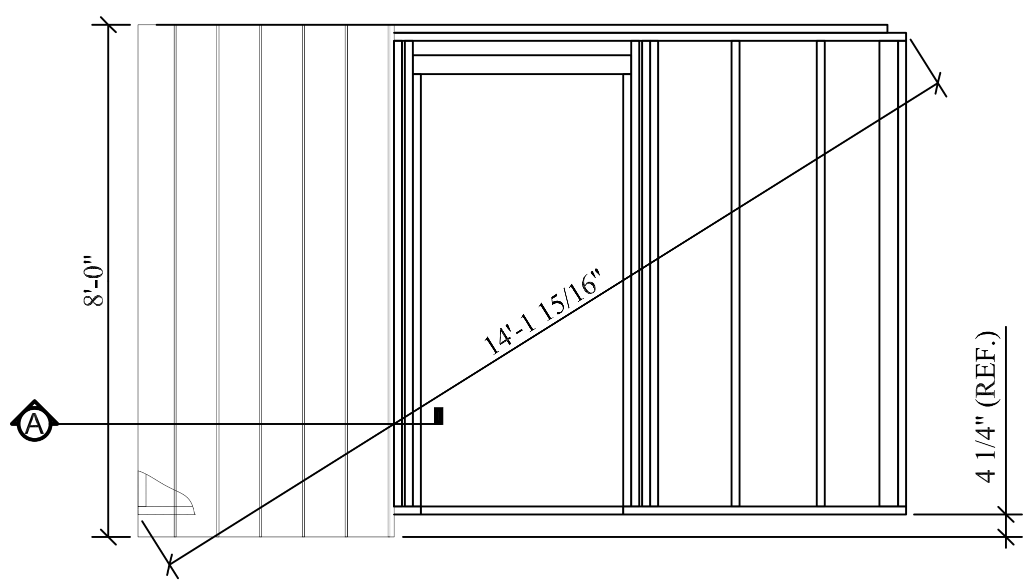
STEP 3c: FRAME WALLS

INSTRUCTIONS

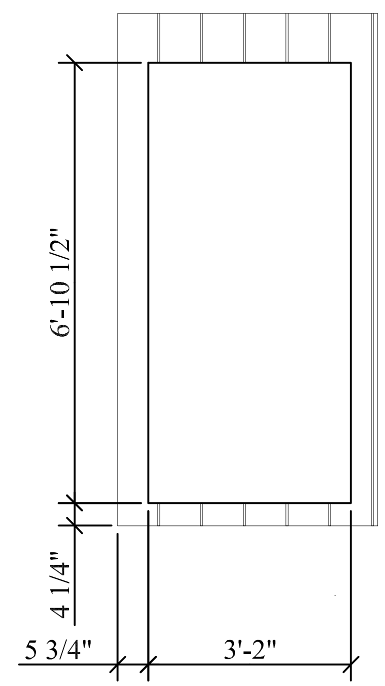
1) Attach one Panel to the Front Wall framing, as shown
2) Cut the shiplap from the edge of the first Panel, as shown
3) Ensure that the framing is square by checking the diagonals and for consistent overlaps on all sides
4) Nail the Panel to the framing in accordance with manufacturer instructions
5) Cut the door opening from the second Panel, as shown
   (If using a router, perform this after attaching the Panel)
6) Align and attach the second and third Panels, as shown

MATERIALS LIST

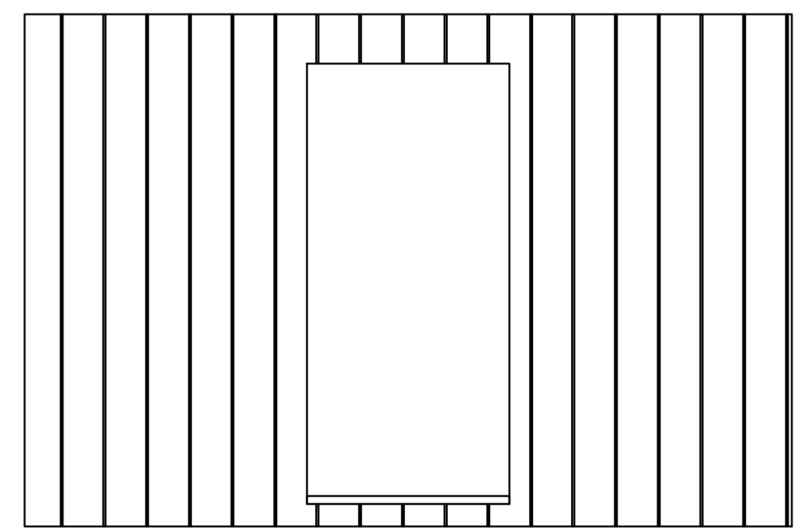
3	LP SmartSide 0.354-in x 48.0-in x 96.0-in Primed OC raw vertical Panel siding
200	Galvanized Sheathing Nails



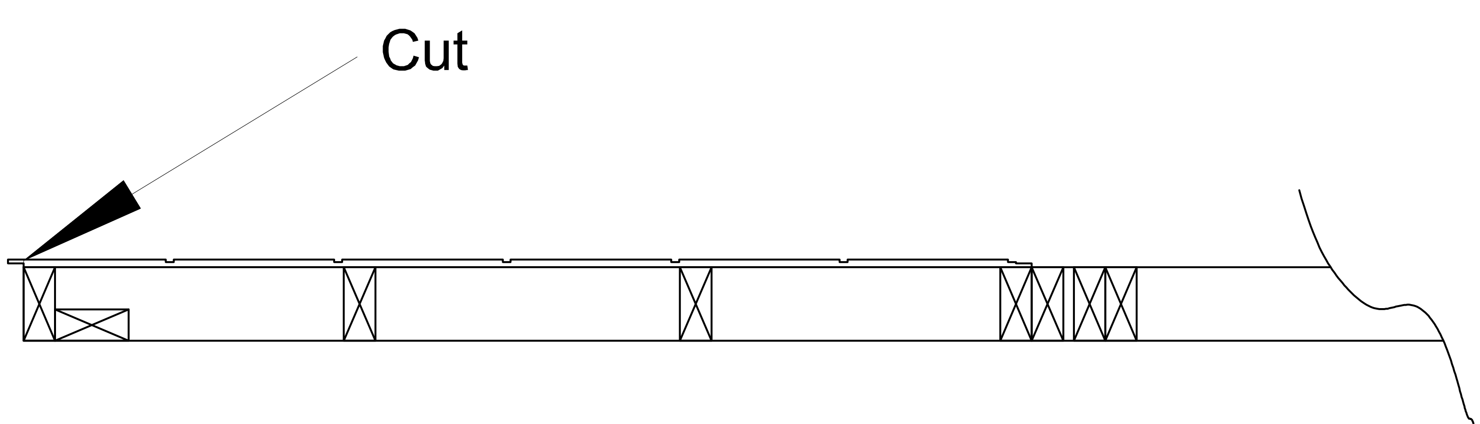
FRONT WALL



DOOR ROUGH OPENING



FRONT WALL SHEATHING



A FRONT WALL SECTION

ECONOMY SHED

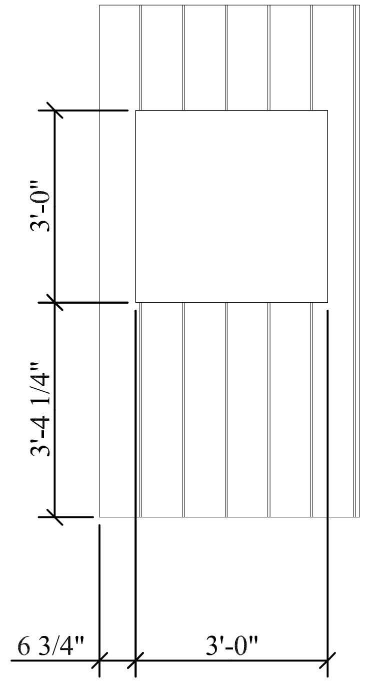
STEP 4a: WALL SHEATHING

INSTRUCTIONS

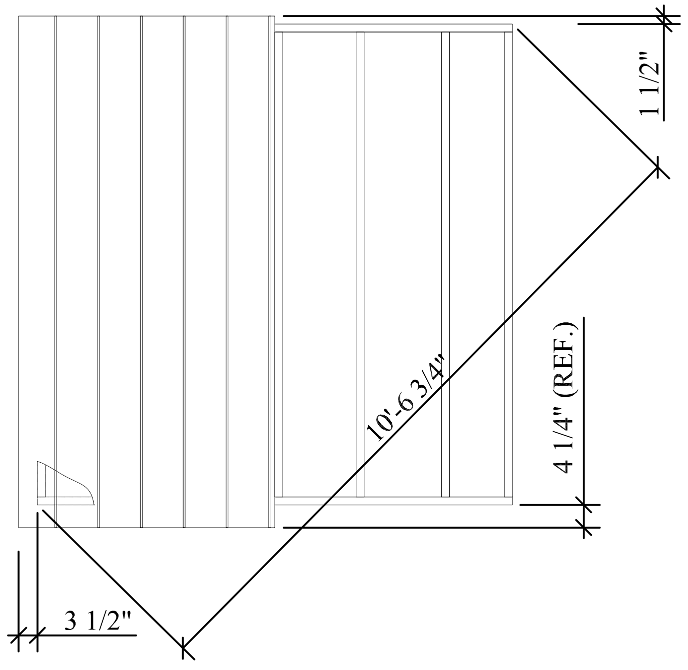
1) Attach one Panel to the Rear Wall framing, as shown for the Front Wall in Step 4a
2) Cut the shiplap from the first Panel, as shown in Step 4a
3) Ensure that the framing is square by checking the diagonals and for consistent overlaps on all sides
4) Nail the Panel to the framing in accordance with manufacturer instructions
5) Cut the window opening from the second Panel, as shown
   (If using a router, perform this after attaching the Panel)
6) Align and attach the second and third Panels, as shown
7) Attach one Panel to the Side Wall framing, as shown
8) Cut the shiplap from the first Panel, as shown in Step 4a
9) Ensure that the framing is square by checking the diagonals and for consistent overlaps on all sides
10) Nail the Panel to the framing in accordance with manufacturer instructions
11) Align and attach the second Panel, as shown
12) Repeat (7) through (11) for the second Side Wall

MATERIALS LIST

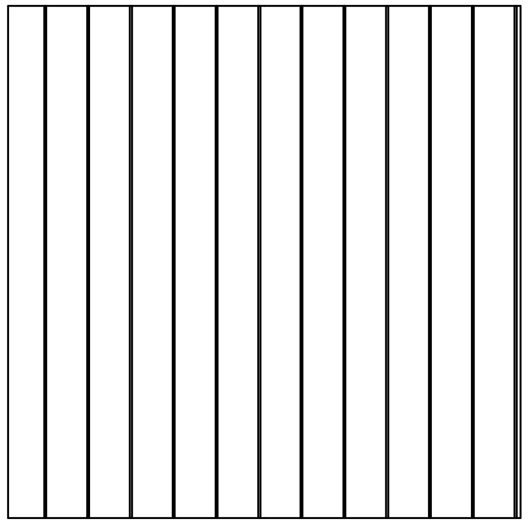
7	LP SmartSide 0.354-in x 48.0-in x 96.0-in Primed OC raw vertical Panel siding
500	Galvanized Sheathing Nails



WINDOW ROUGH OPENING



SIDE WALL



SIDE WALL SHEATHING

ECONOMY SHED

STEP 4b: WALL SHEATHING

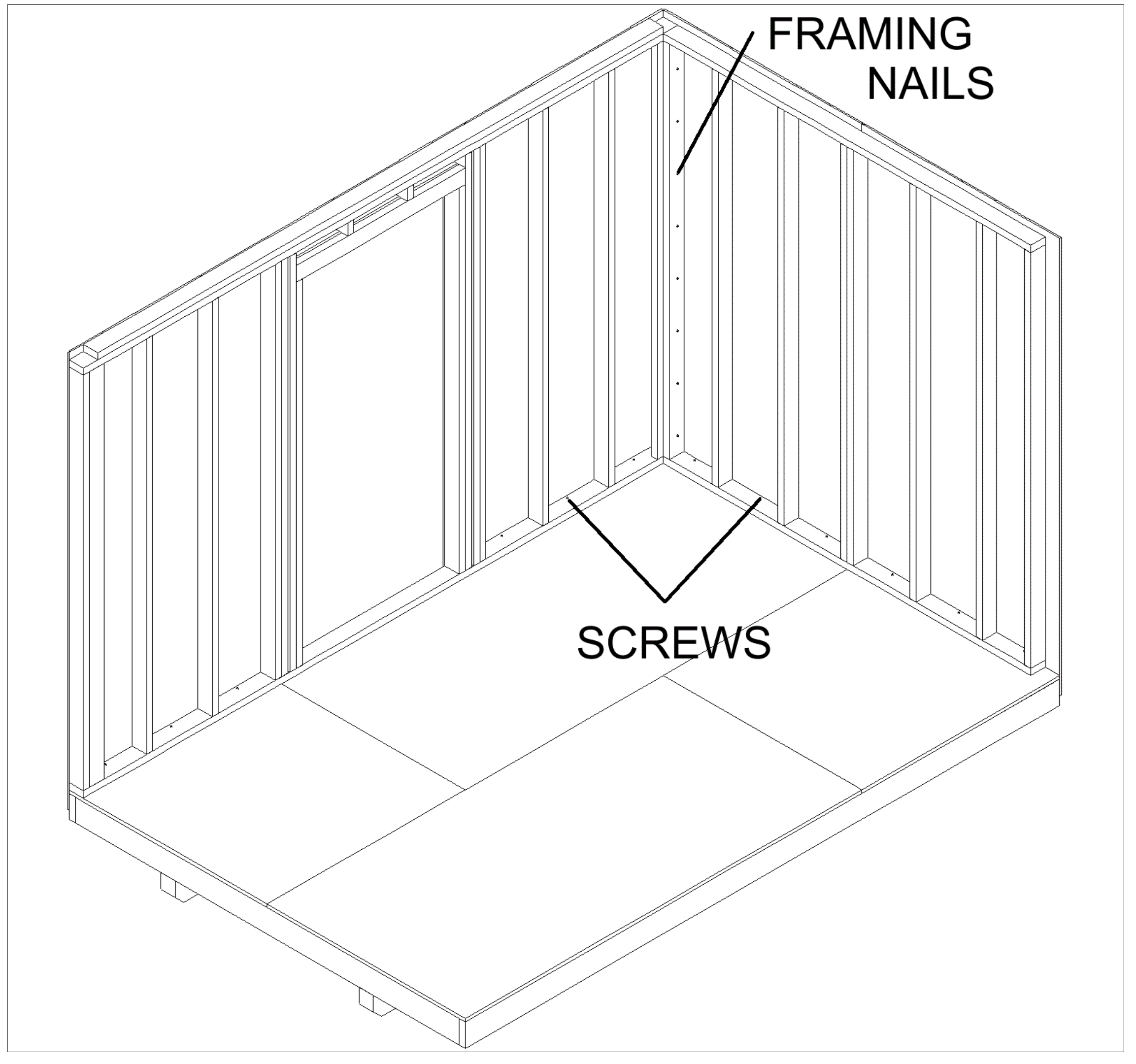
INSTRUCTIONS

The approach to erecting the walls will depend on the available space and the number of workers
If we assume that space is available to frame and sheath at least two wall panels and that there are enough workers to move the completed wall panels into position and support them while they are nailed ...

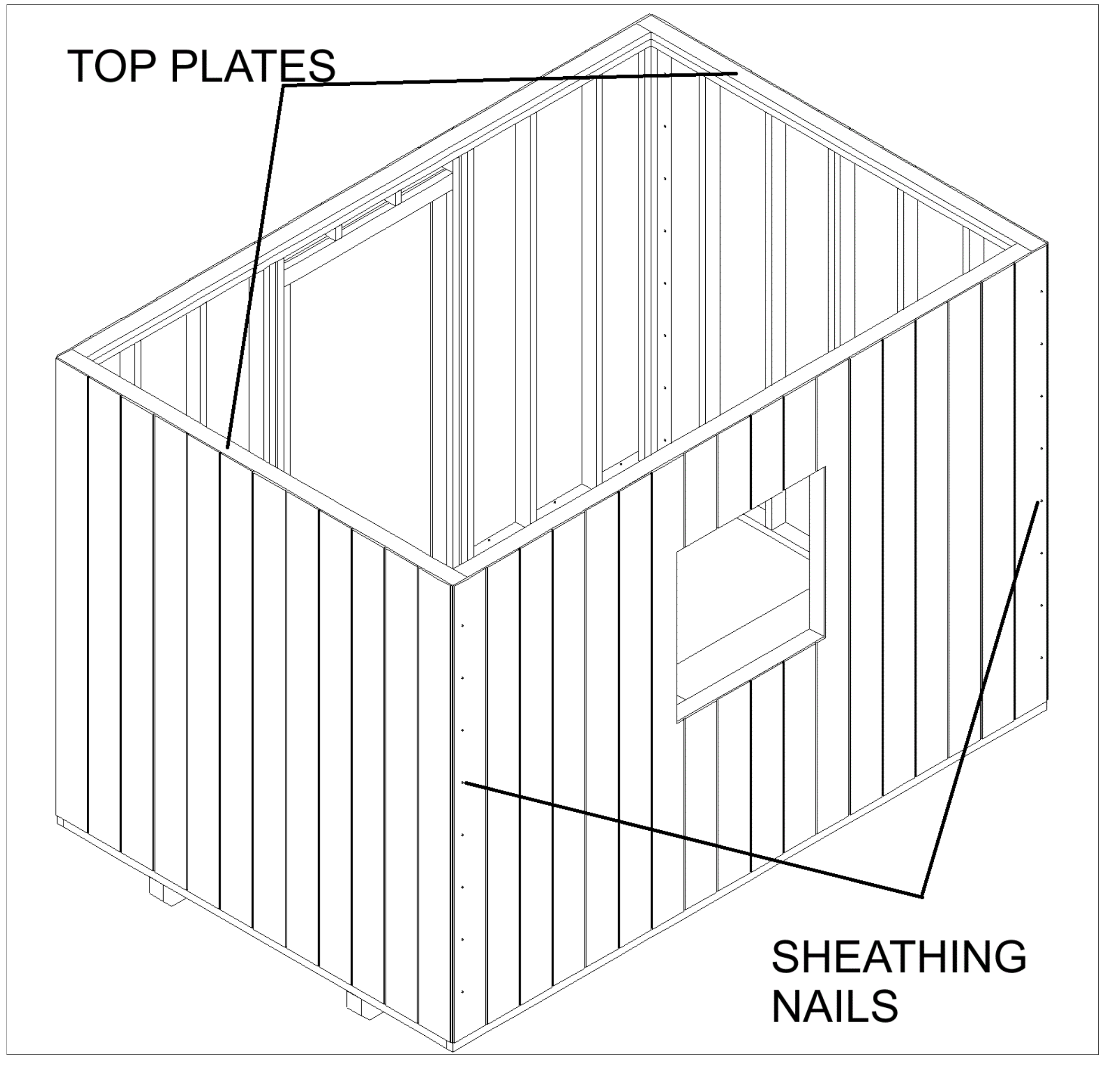
1) Position one Side Wall and the Front Wall on the Floor, as shown
2) Check that the walls are plumb and in contact at the joint
3) Nail siding nails through the Siding on the Side Wall into the end stud on the Front Wall
4) Nail the end stud on the Side Wall to the end stud of the Front Wall with framing nails
5) Screw the bottom plate of each Wall through the floor into the outside Joists and Rim Boards using 4" screws roughly 3/4" from the siding through each space between studs
6) Install the remaining Walls and attach in a similar manner
7) Attach the 2 - 2x4 x 8' Top Plates as shown

MATERIALS LIST

2	2x4 x 8'
50	Framing Nails
50	Galvanized Sheathing Nails
30	4" screws
	2x4 Bracing, as required



ERECT FRONT AND SIDE WALL



ALL WALLS AND UPPER TOP PLATES ON SIDE WALLS

ECONOMY SHED

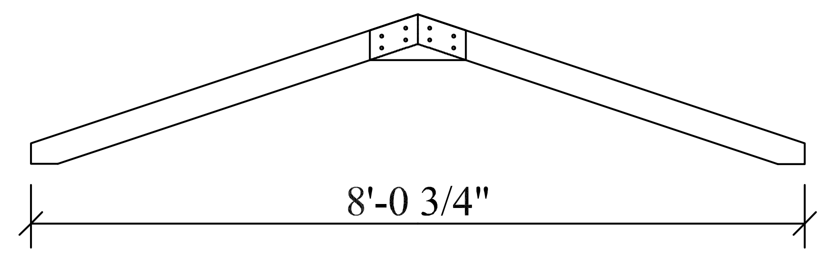
STEP 5: ERECT WALLS

INSTRUCTIONS

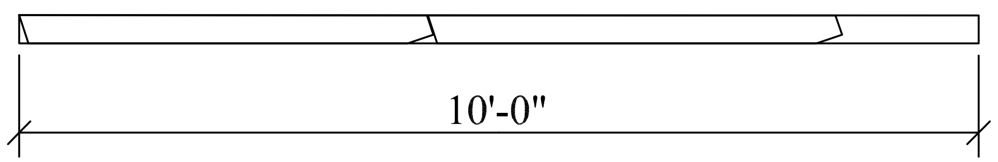
1) Cut 14 Rafters from the 2x4s, as shown
   Mark the 2x4s as shown using a carpenter square or speed square for a 4:12 roof
2) Cut 12 Gusset Plates from 1/2" OSB
   See Step 7 for cutting plan
3) Assemble 7 Rafter Assemblies, as shown
   Attach Gusset Plates to both sides of the five interior Assemblies and one side of the two exterior Assemblies
4) Drive 8 sheathing nails through each Gusset Plate, as shown
   Nails should be driven roughly 1" from the edge of the Gusset Plates and 2x4s
5) Cut two sets of 2x4s from 2-2x4 x 10' to complete the Exterior Rafter Assemblies, as shown
6) Assemble the two Exterior Rafter Assemblies, as shown
   These are dimensioned for an 8" x 8" vent. The two verticle 2x4s may need to be modified if a different vent is used

MATERIALS LIST

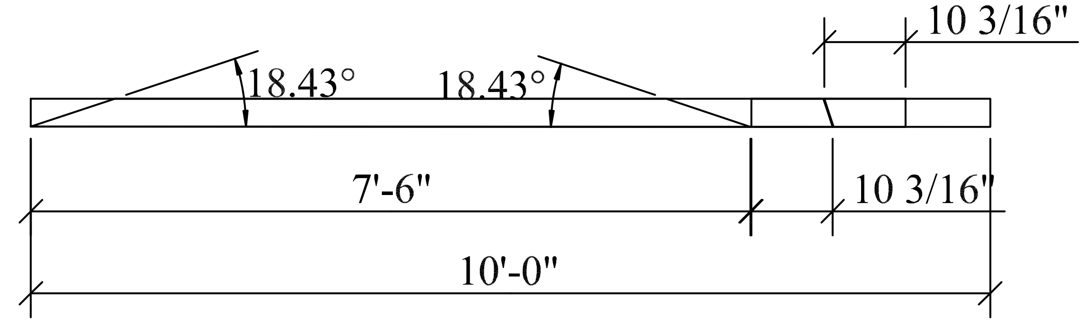
9	2x4 x 10'
6 sq.ft.	1/2" OSB
100	Sheathing Nails
20	Framing Nails



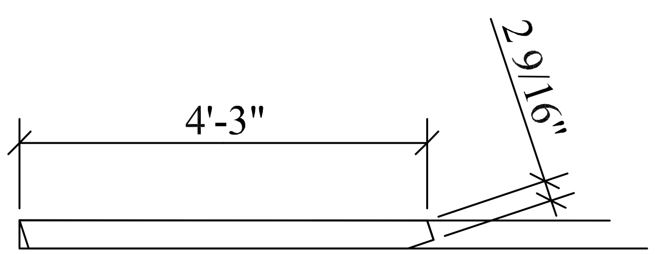
RAFTER ASSEMBLY



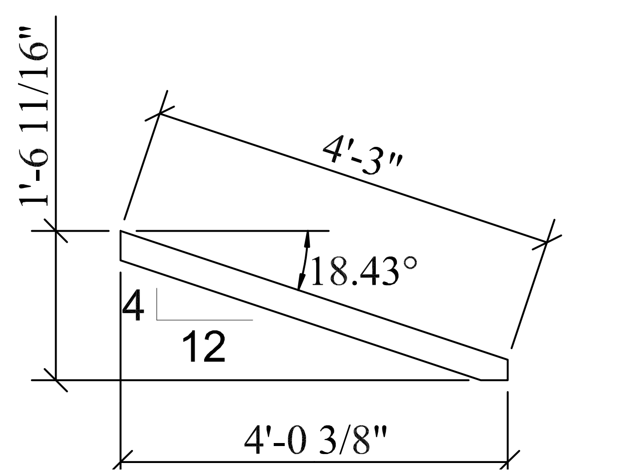
RAFTER CUTTING PLAN



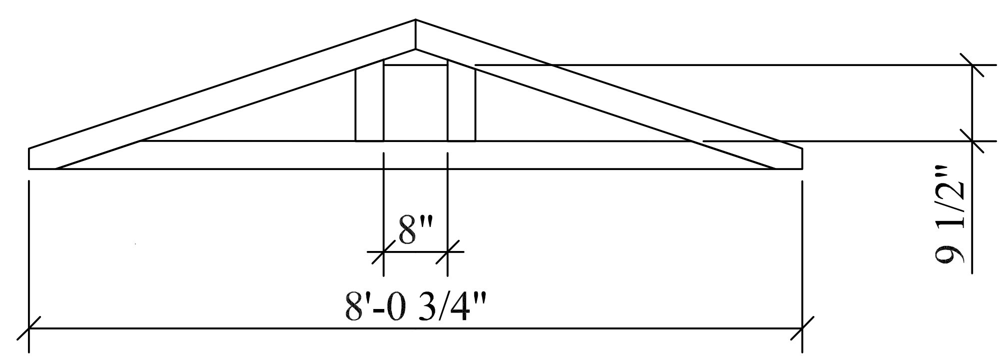
CUTTING PLAN FOR EXTERIOR RAFTER ASSEMBLIES



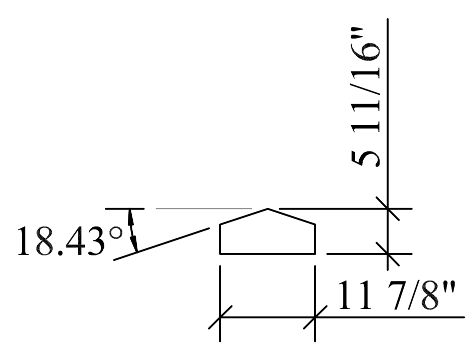
MARK RAFTER FOR CUTTING



IN-PLACE RAFTER DIMENSIONS



EXTERIOR RAFTER ASSEMBLY



GUSSET PLATES

ECONOMY SHED

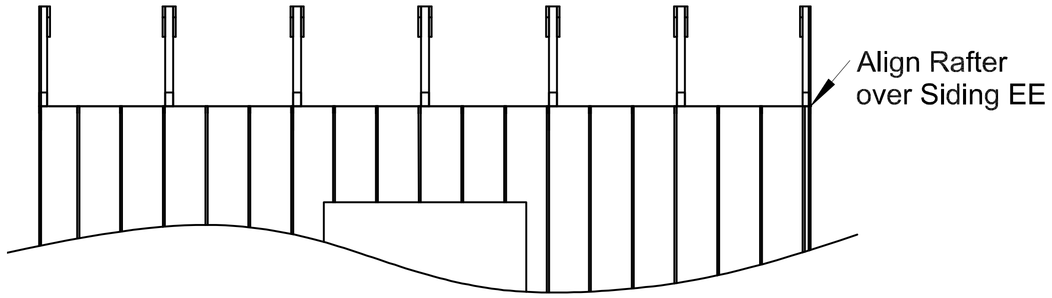
STEP 6: FABRICATE RAFTERS

INSTRUCTIONS

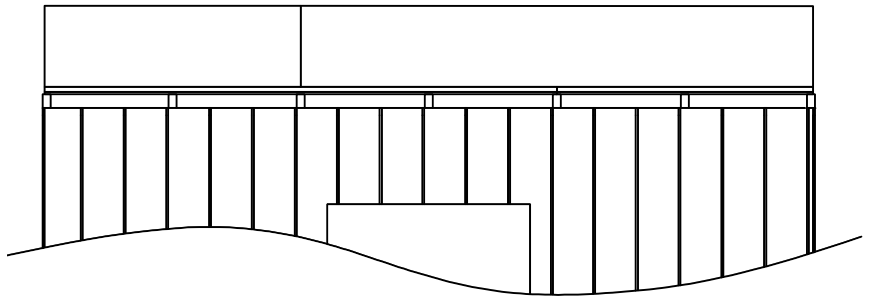
1) Place 7 Rafter Assemblies, as shown, aligning with the marks on the upper top plates
2) Toenail rafters to the upper top plate
3) Reinforce rafter connections to top plate using 6" Simpson Strong Tie screws, or equivalent
4) Cut 1/2" OSB, as shown, for the roof sheathing
5) Use sheathing nails to attach the OSB to the rafters

MATERIALS LIST

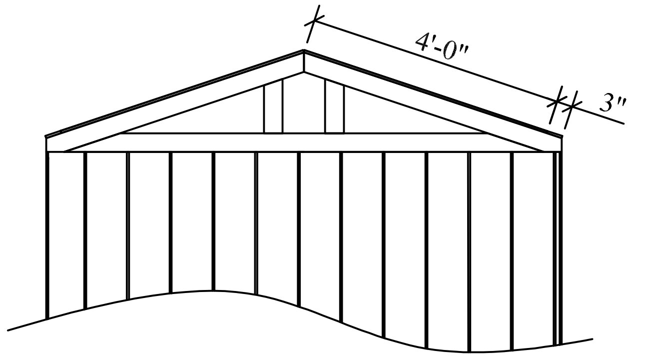
4	4' x 8' x 1/2" OSB
14	6" Simpson Strong Tie screws
200	Sheathing Nails



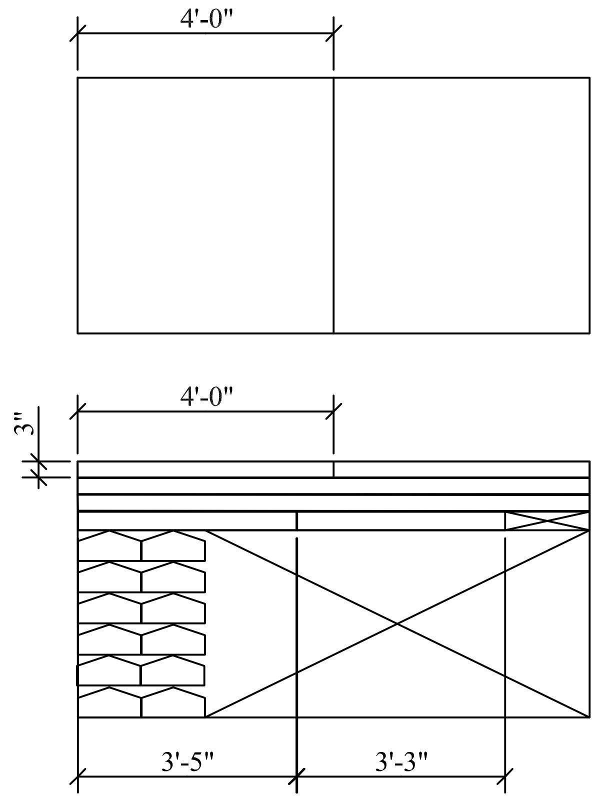
RAFTER PLACEMENT



ROOF SHEATHING (FRONT VIEW)



ROOF SHEATHING (SIDE VIEW)



ROOF SHEATHING CUTTING PLAN

ECONOMY SHED

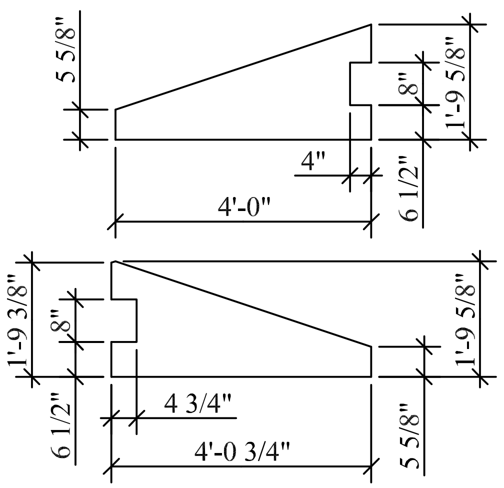
STEP 7: ROOF STRUCTURE

INSTRUCTIONS

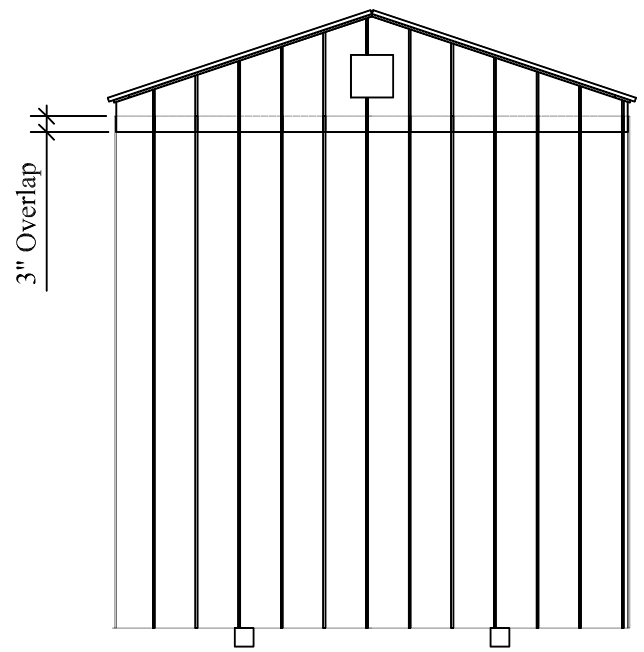
1) Cut 2 pairs of Gable Siding. See the Cutting Plans for proper alignment with grooves
2) Place the siding on the gable ends
   Align the grooves with those on the siding
   The triangular pieces will overlap the wall siding by 3"

MATERIALS LIST

1	4' x 8' LP Siding Panels
100	Galvanized Sheathing Nails



GABLE SOFFIT



GABLE SOFFIT BOTH SIDES

ECONOMY SHED

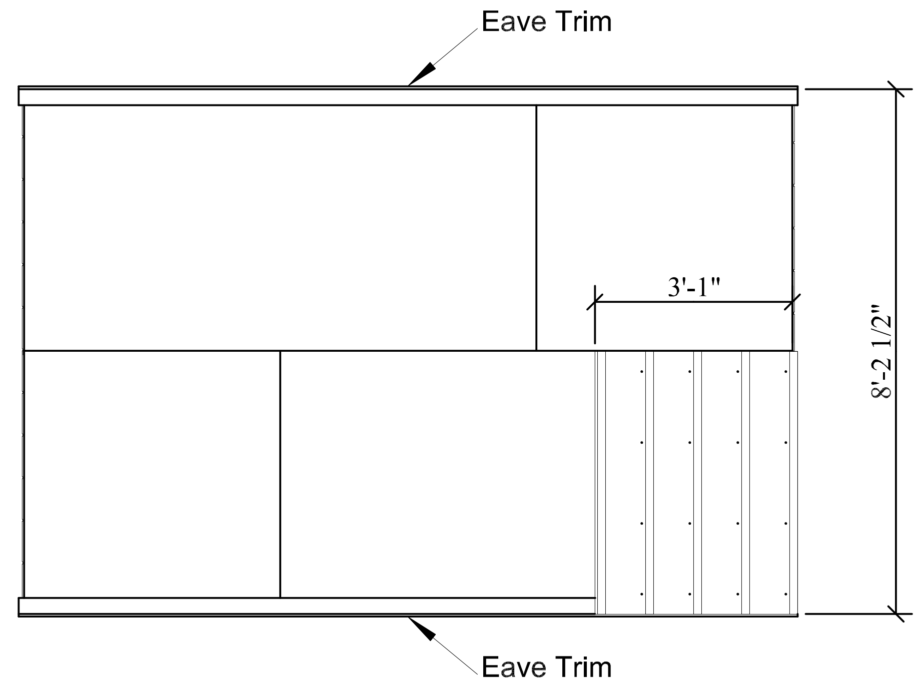
STEP 8: GABLE SIDING

INSTRUCTIONS

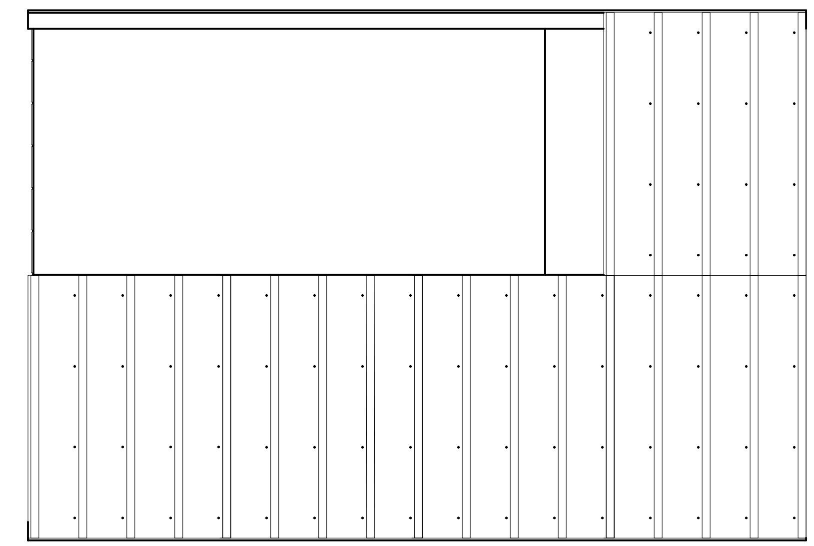
1) Order metal roofing components from a local fabricator
2) Drill or punch screw holes in the metal sheets, as shown
   Several sheets can be stacked to make holes in one operation
3) Install the Eave Trim on both sides of the shed using roofing nails. The overhang on each end should be the same
4) Place the first panel, as shown, covering the Eave Trim, and screw it to the roof sheathing
   The center of the first rib should be roughly aligned with the edge of the roof sheathing
5) Place three full width panels, overlapping the rib on the previous panel
6) Start metal roofing on the other side of the roof aligned with the installed roofing, as shown, and install the other 4 panels
7) Install the Rake Trim and Ridge Cap

MATERIALS LIST

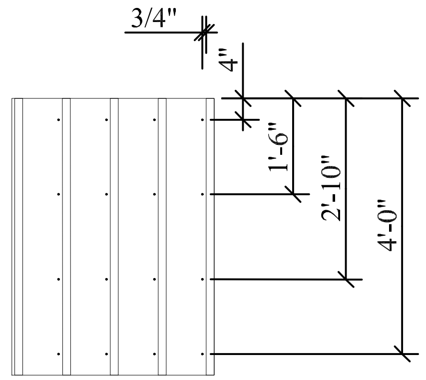
8	3' x 4'-4" Metal Roofing Panels
4	4'-6" Rake Trim (Custom, as shown)
2	12'-2" Eave Trim
1	12'-2" Ridge Cap
250	1" Roofing Screws
50	1 1/4" Roofing Nails



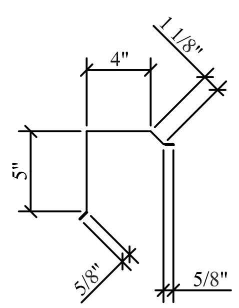
EAVE TRIM/FIRST ROOF SHEET



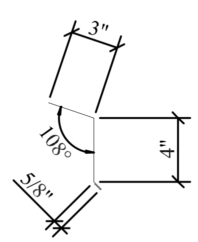
METAL ROOFING



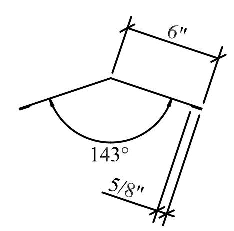
SCREW HOLES



RAKE TRIM



EAVE TRIM



RIDGE CAP

ECONOMY SHED

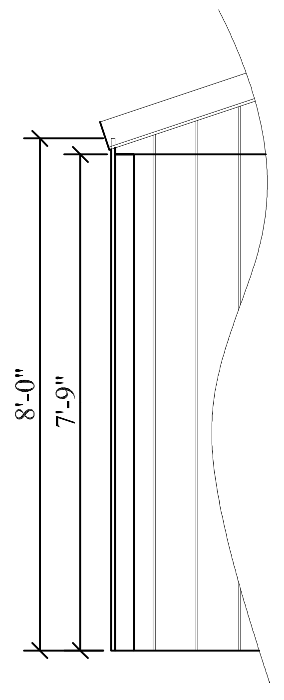
STEP 9: METAL ROOF

INSTRUCTIONS

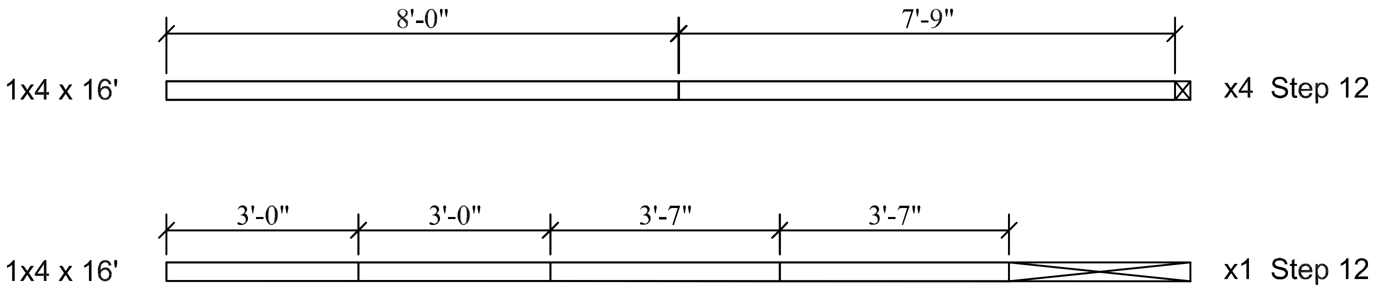
1) Cut 5 - 1x4 x 16' SmartSide Trim, as shown
2) Install Corner Trim on the 4 corners of the shed
   For consistency, ensure that the joint between the two 1x4s is visible from the gable end, as shown
3) Remove the section of the bottom plate in the door opening as shown in Step 3a
4) Install the door and window in accordance with manufacturer instructions
5) Use the trim provided with the prehung door
6) Add trim to the window as shown
7) Install the gable vents

MATERIALS LIST

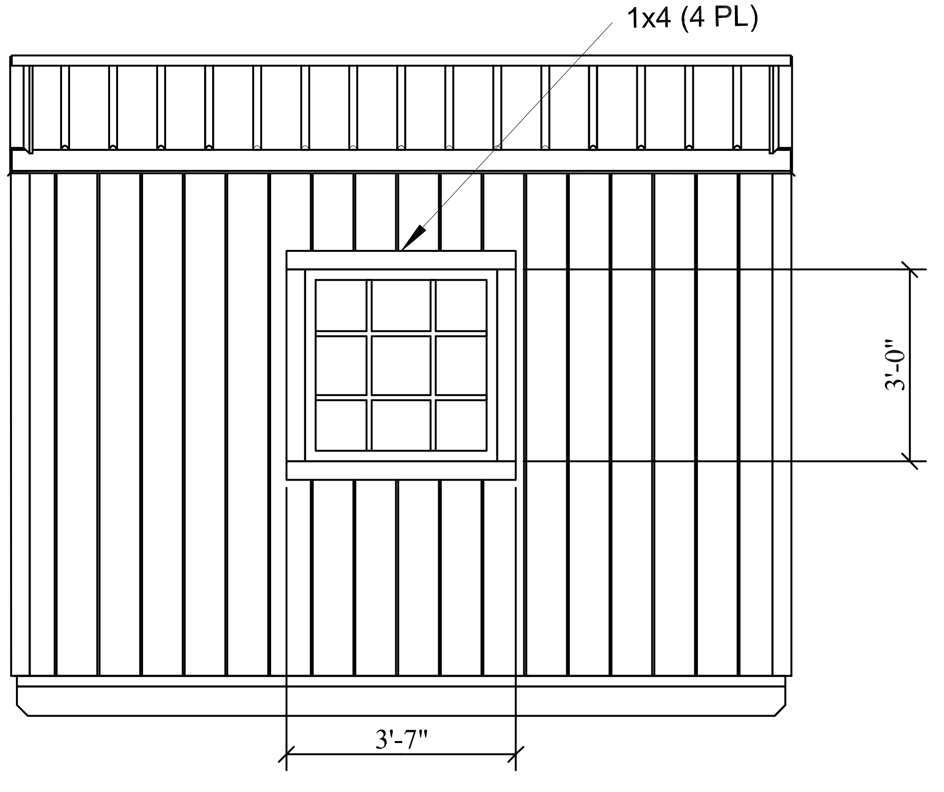
5	1x4 x 16' LP Smartside Trim
100	Galvanized Sheathing Nails
1	36" X 36" Window
1	36" Exterior Door (prehung)
1	Door Handle and Lock
2	8" Square Gable Vents



CORNER TRIM



CUTTING PLAN

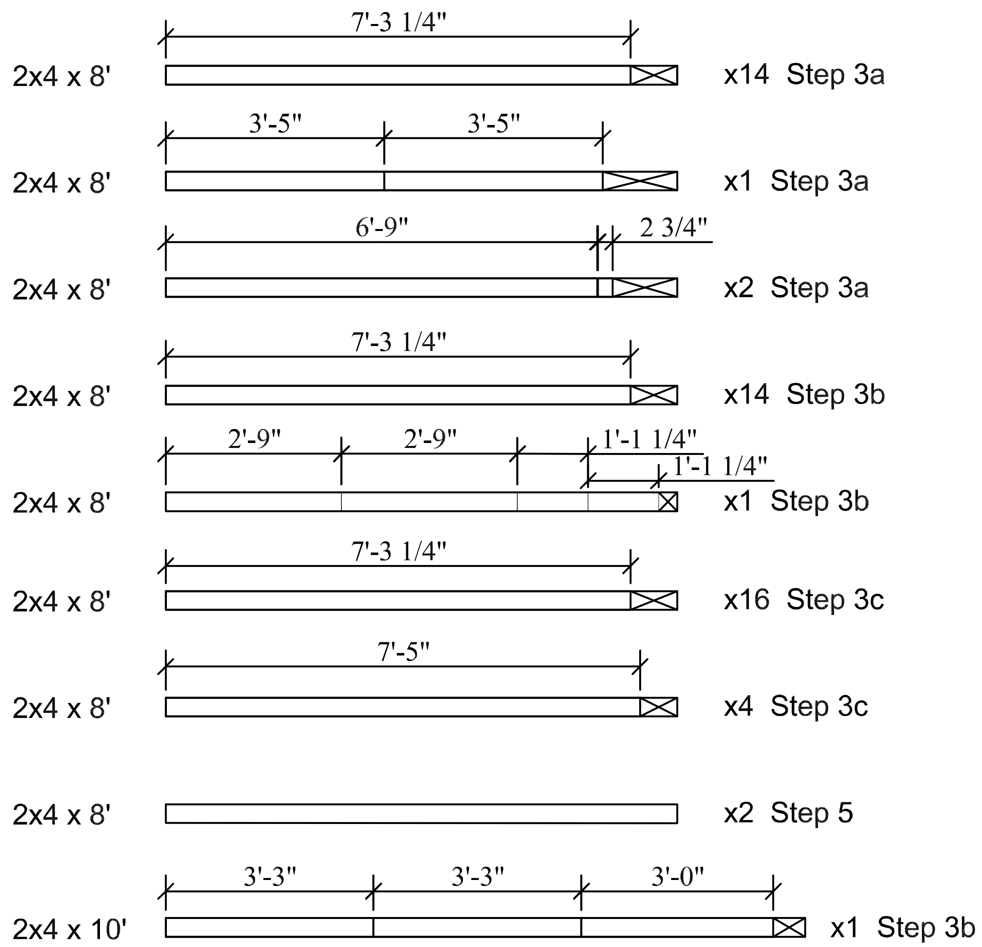


WINDOW TRIM

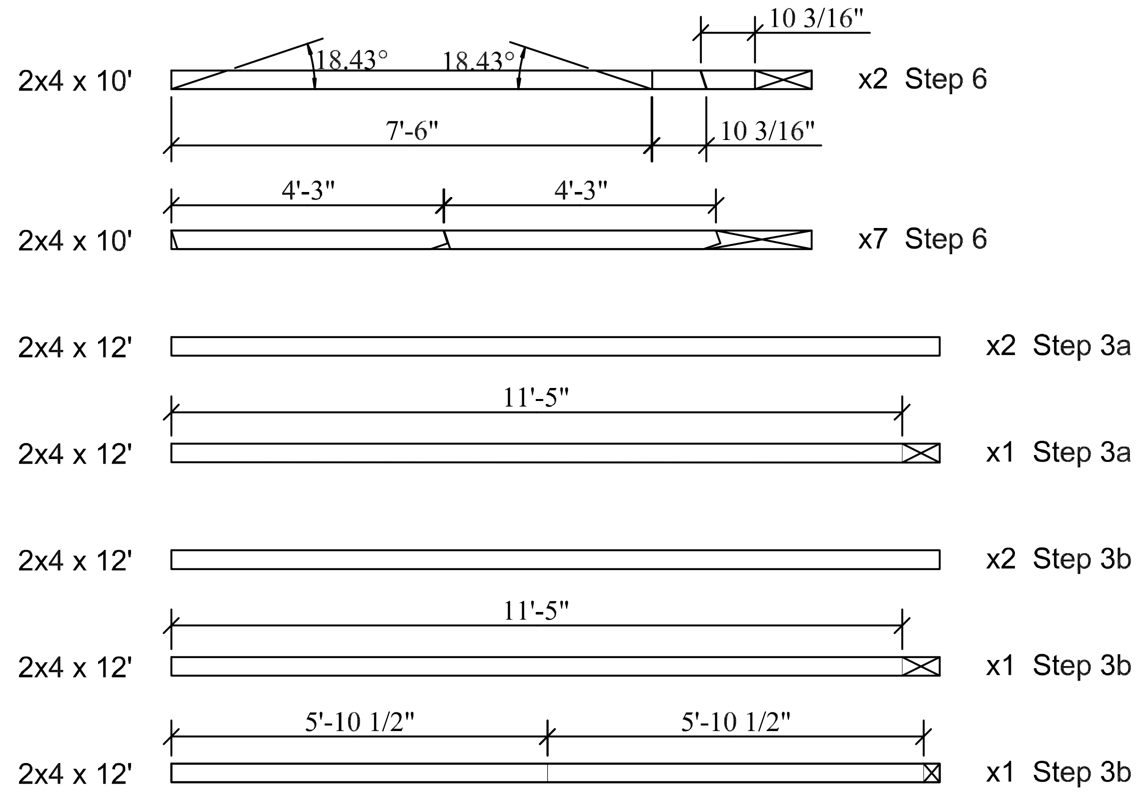
ECONOMY SHED

STEP 10: FINISH

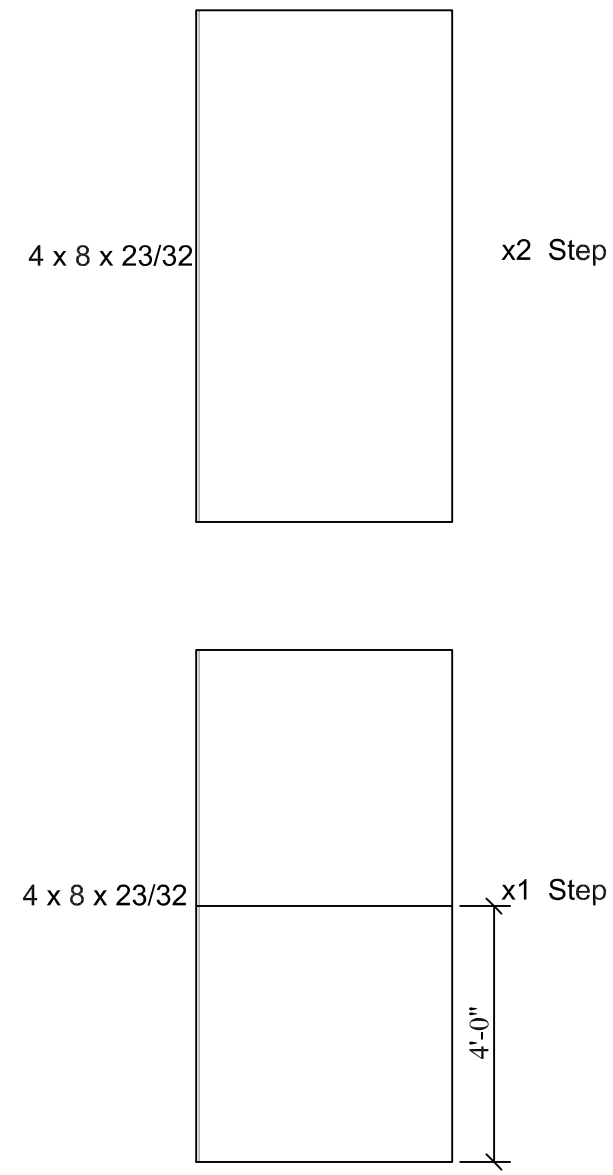
KILN-DRIED LUMBER



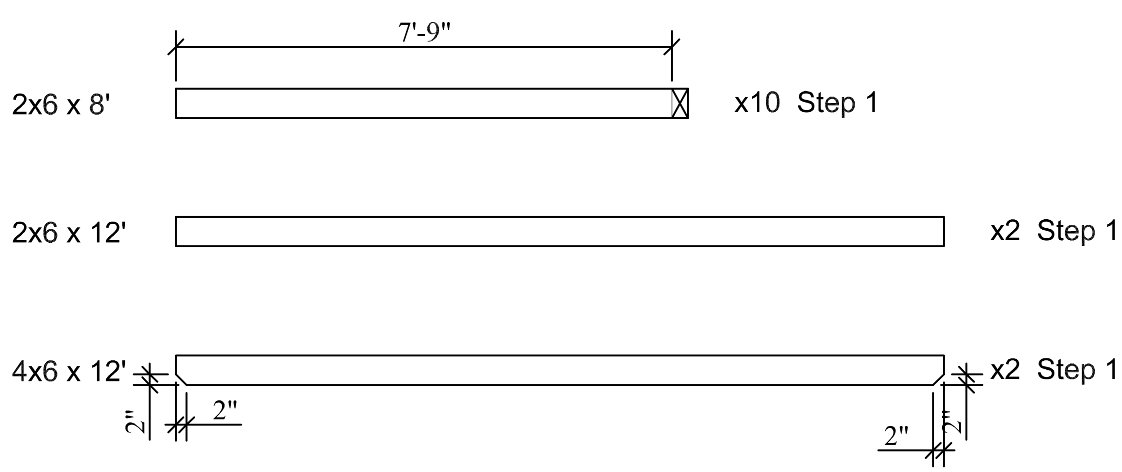
KILN-DRIED LUMBER



TONGUE & GROOVE FLOORING



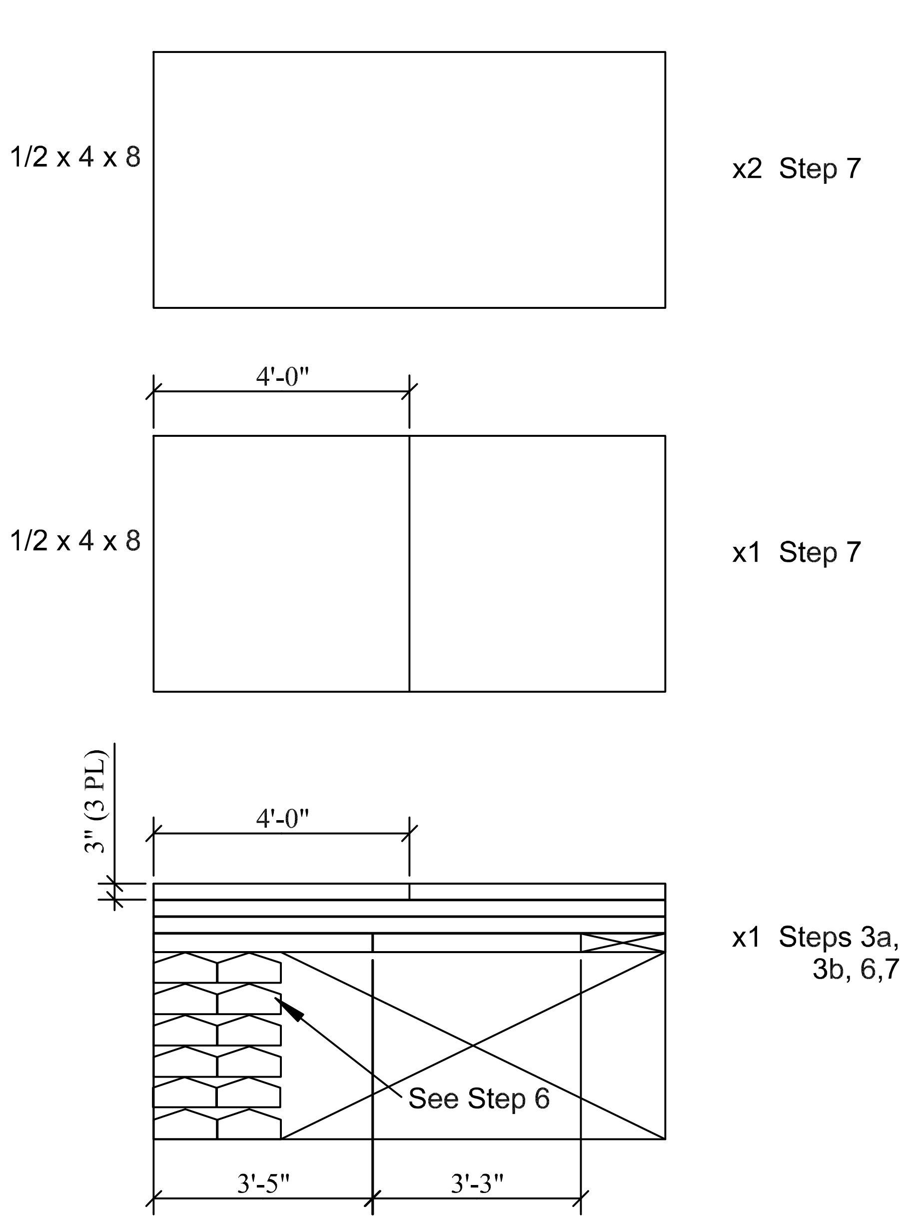
PRESSURE-TREATED LUMBER



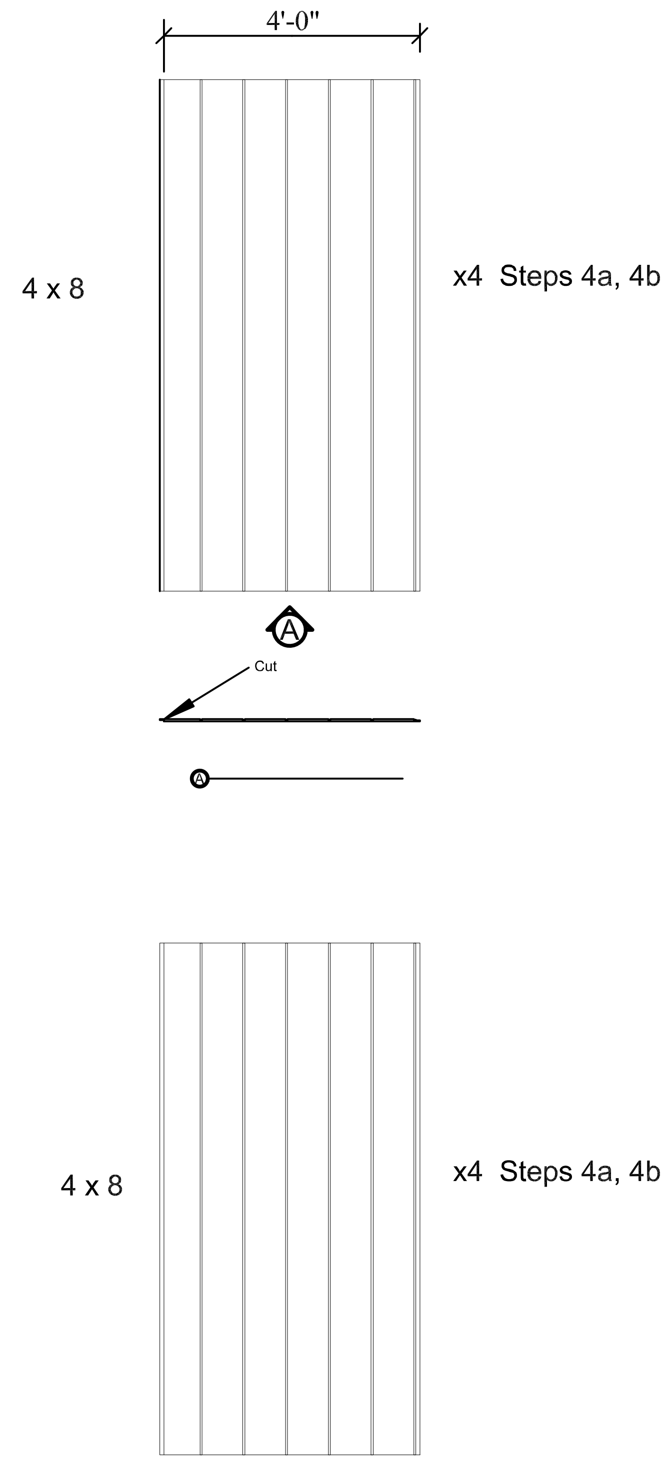
ECONOMY SHED

CUTTING PLANS

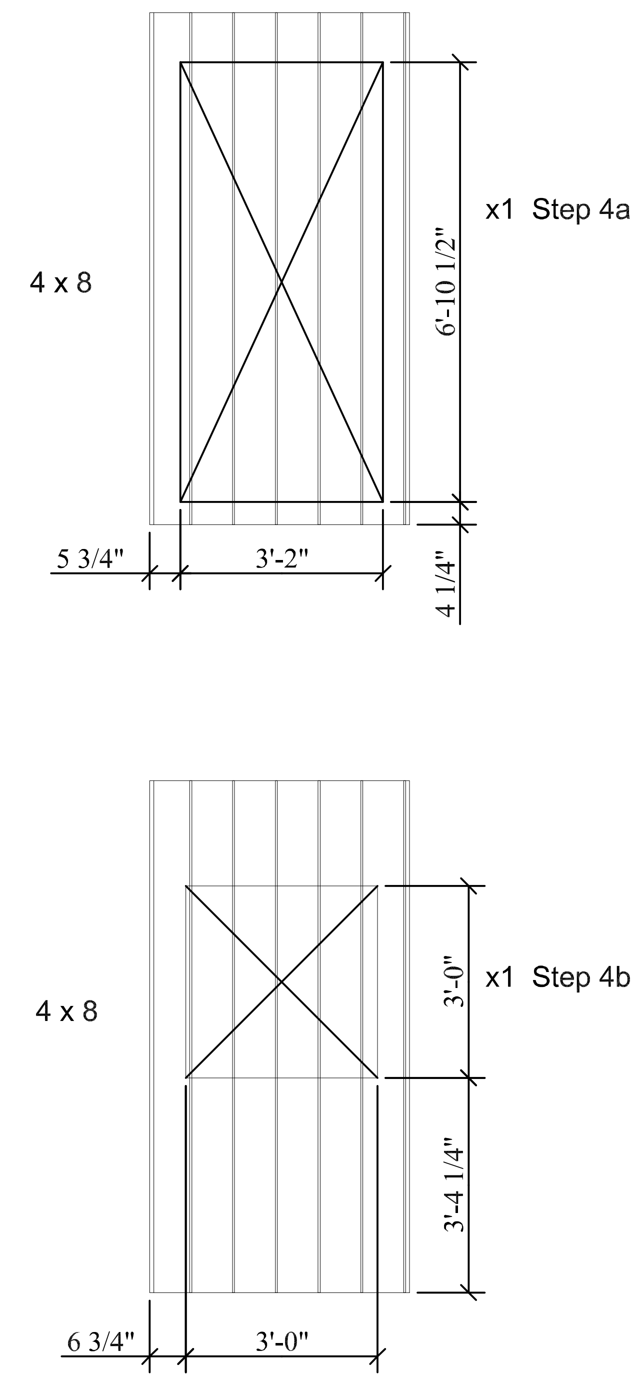
1/2" x 4' x 8' OSB



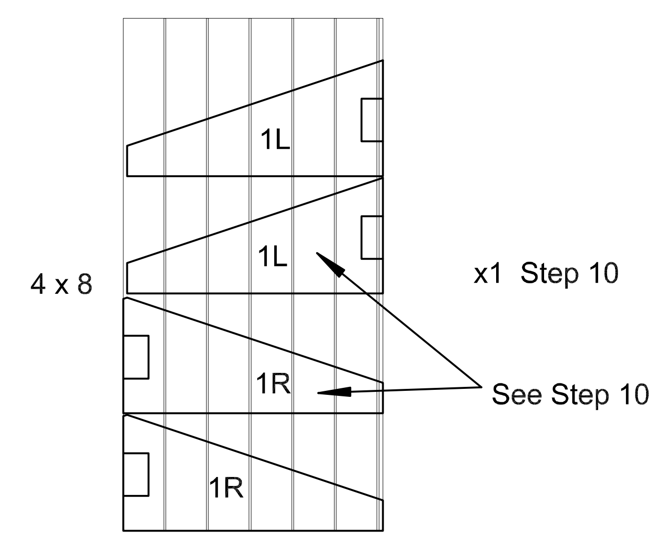
LP SMARTSIDE



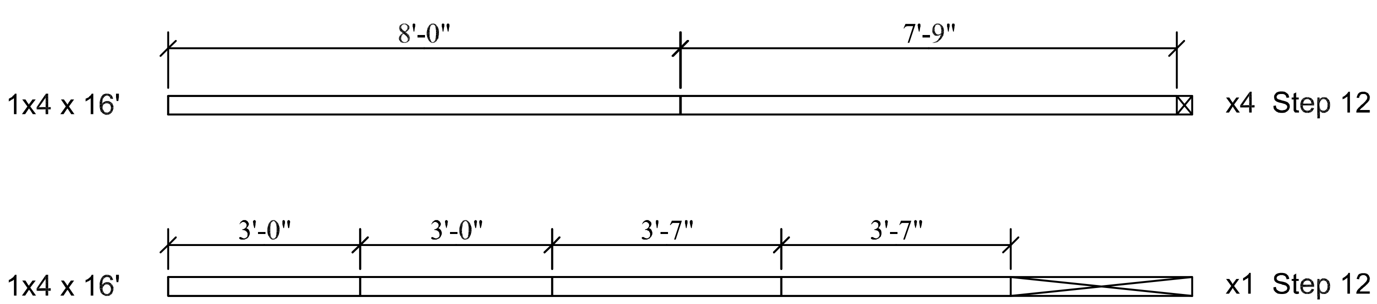
LP SMARTSIDE



LP SMARTSIDE



LP SMARTSIDE TRIM



ECONOMY SHED

CUTTING PLANS