RAMM
Stalls & Horse Fencing

RUN-IN SHED
INSTRUCTIONS

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RUN-IN SHED INSTRUCTIONS

General Notes;

-Read the entire instructions before you begin.
-Wear appropriate safety gear when using saws, and drills. This may include, but is not limited to, safety glasses, hearing protection and work gloves.

**** Roofing Steel and Channels have sharp edges and can cut your skin****

-Where ever possible mount the bolts from the outside, with the nuts toward the inside of the building, as it allows for easier capping of the Trim and exterior Roofing Steel.
- Get help moving parts and building the shed, as some pieces are heavy and awkward to handle.

- Face the opening of the Building to the South-West if possible.

Always install earth anchors – never leave shed without earth anchors.

WHEN MOVING SHED ALWAYS PULL FROM THE ENDS – YOU SHOULD BRACE THE INSIDE CORNERS SO THAT SHED PULLS STRAIGHT

What You Need

Tools

- Circular Saw
- Blade for above to cut 2” x 6” lumber
- Blade for above to cut Roofing Steel

- Electric Hand Drill
- ½” Drill bit for above
- 5/16” Hex Screw Driver Bit for above
- ¼” Hex Screw Driver Bit for above
- Philips Screw Driver Bit for above

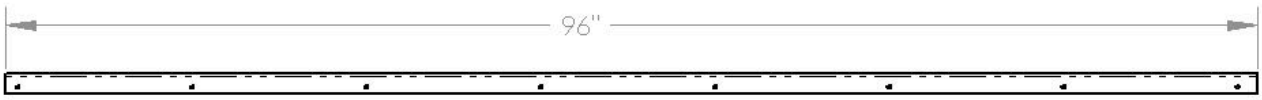
- 9/16” wrench
- 9/16” socket w/ 3/8 drive ratchet

Wood

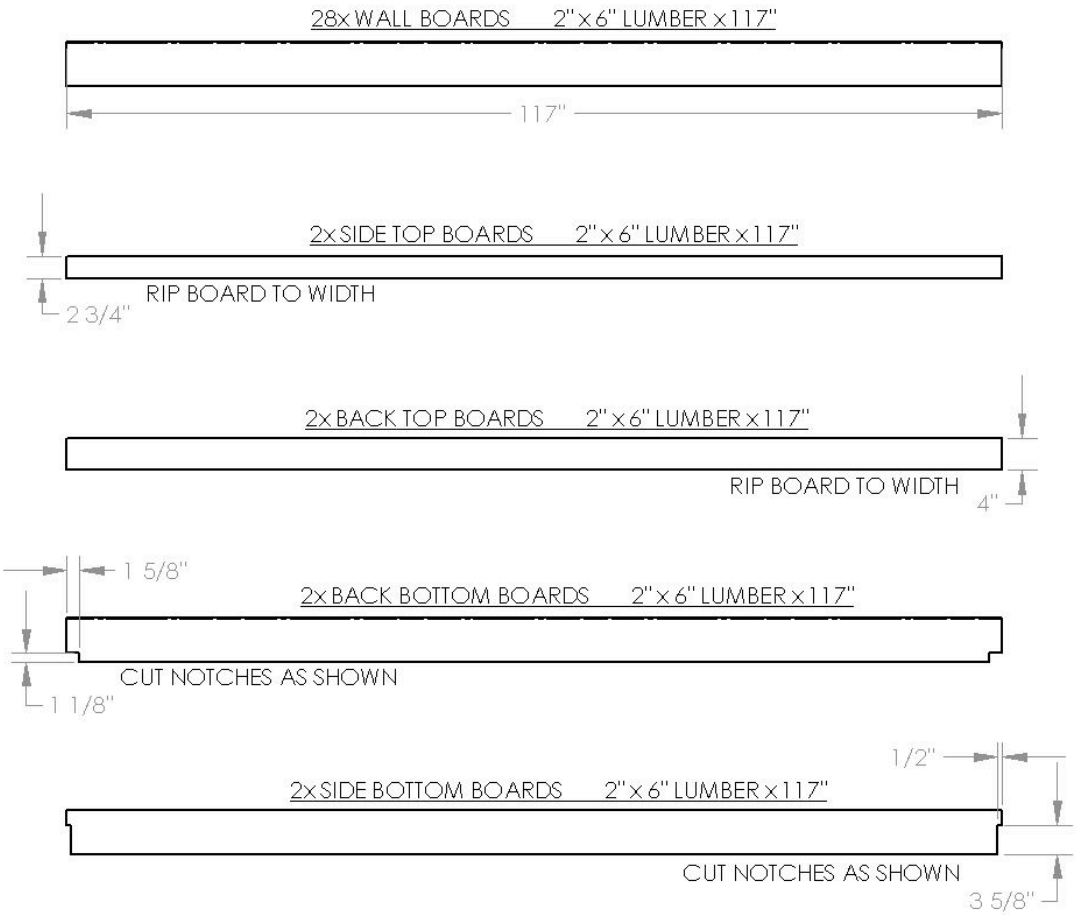
- 36x 2” x 6” x 10’

What you need to Make

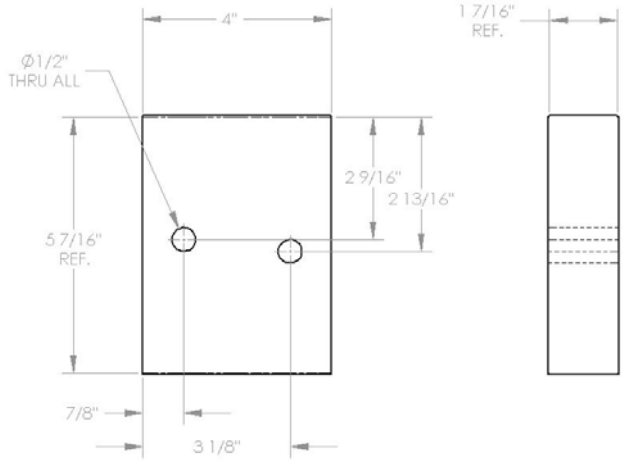
RS-F-191-A 96" TOP CHANNEL



22" TOP CHANNEL - CUT 4 PCES AS SHOWN FROM A 96" TOP CHANNEL (RS-F-191-A)



Wooden Shim Blocks



WOODEN SHIM BLOCK QTY = 4x

- CUT 4 PIECES OF 2" x 6" LUMBER x 4" LONG
- DRILL 2x 1/2" HOLES AS SHOWN IN EACH

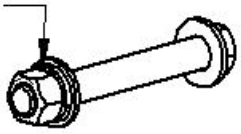
Fastener List (Included in Kit)

Fasteners will be called out by a 2-Letter code on the bag and in the instructions. See below. Use a 3/8" nut, and lock-washer and 2 flat washers in each instance a bolt is called out (**AA**, **BB**, **CC**, & **DD**). Item **EE** is used to mount channels to posts and will generally be hidden when the building is complete. Item **FF** is used to mount hardware to the wooden boards. Items **GG** and **HH** are both used for fastening the external roofing steel, the difference being that **GG** is used where the screw attaches to the boards and **HH** is used where the screw attaches to steel posts or channels.

AA
3/8" x 1" HEX HEAD BOLT

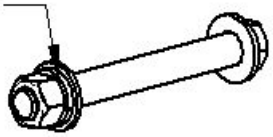
EE
#12 SELF-TAPPING HEX HEAD SCREW
x 1"

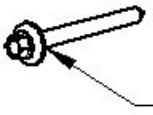
BB
3/8" x 3" HEX HEAD BOLT



FF
#12 PHILIPS TRUSS HEAD SCREW
x 1-1/4"

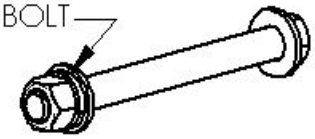
CC
3/8" x 4" HEX HEAD BOLT

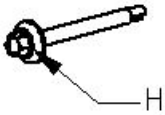




GG
#10 x 1" HEX HEAD ROOFING
HEAD STEEL SCREW w/RUBBER
GASKET

DD
3/8" x 4-1/2" HEX HEAD BOLT

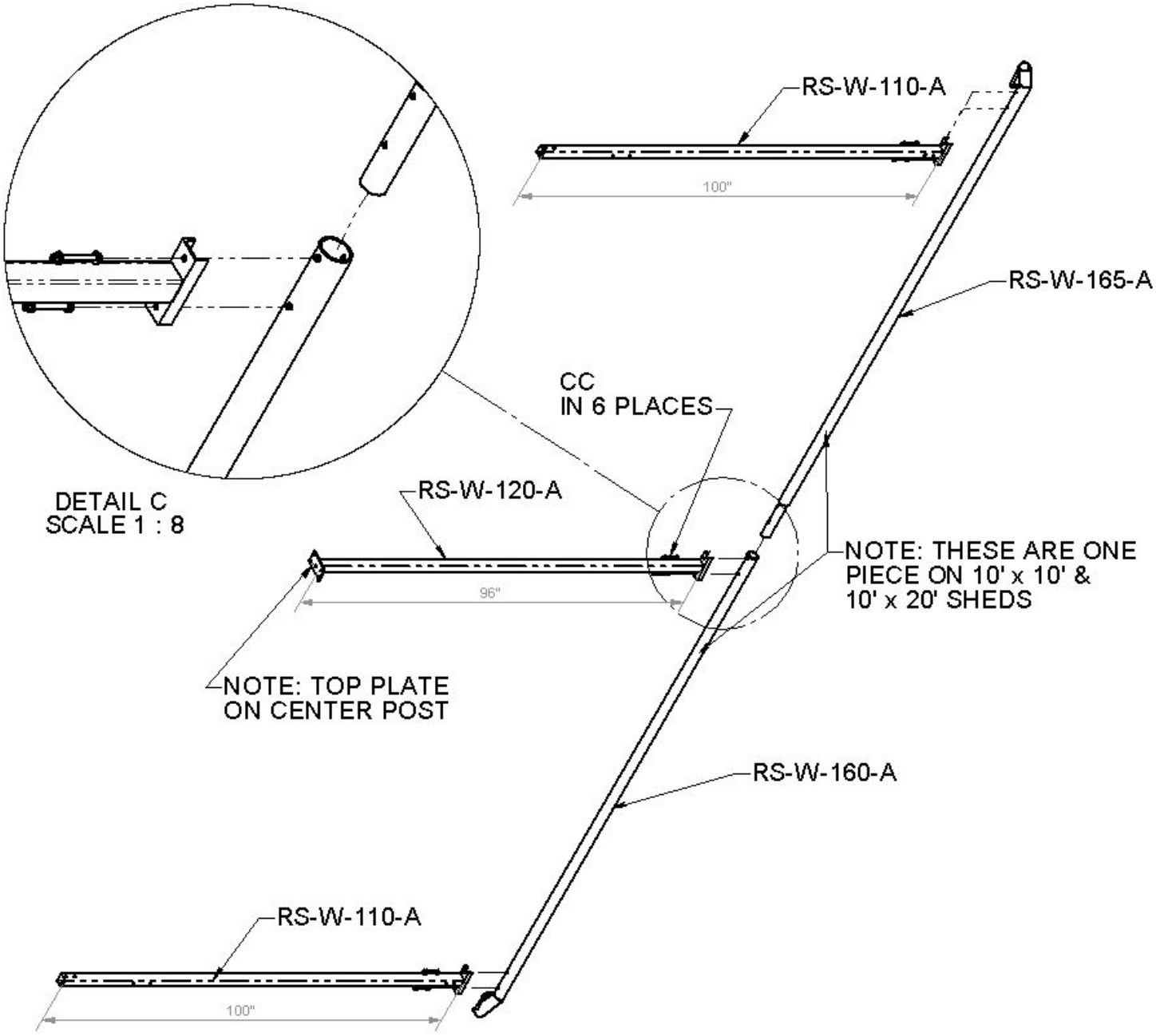




HH
#10 x 1-1/2" SELF-TAPPING HEX HEAD
ROOFING HEAD STEEL SCREW
w/RUBBER GASKET

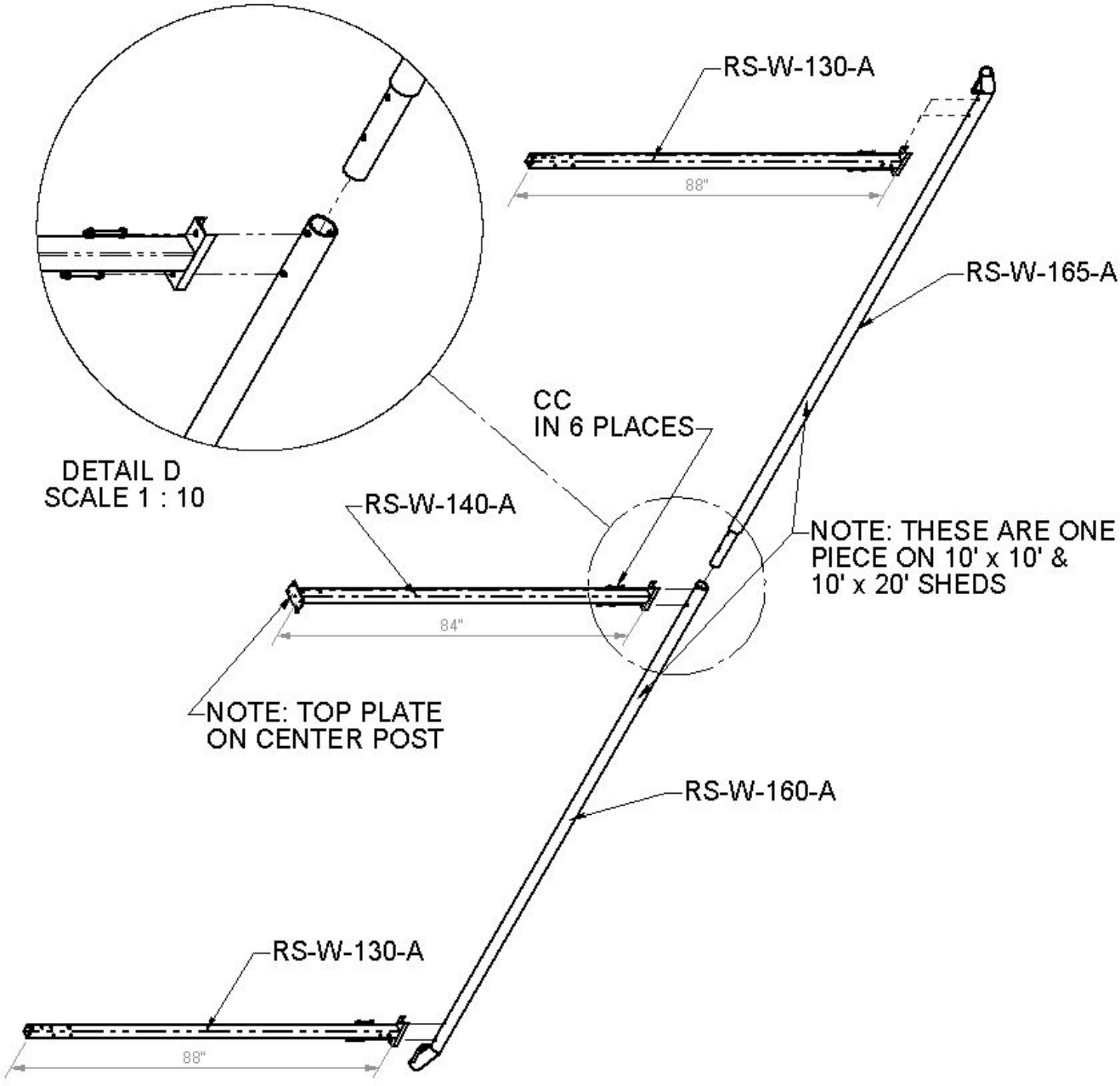
STEP 1

Locate and connect 1x **RS-W-160-A** (*Female Base Runner*) to 1x **RS-W-165-A** (*Male Base Runner*) by sliding the smaller pipe section of **RS-W-165-A** into the larger pipe section of **RS-W-160-A** until the bolts holes line up. **Note; In some kits these may arrive joined as one piece. Locate 2x **RS-W-110-A** (*Front Outer Posts*) and 1x **RS-W-120-A** (*Front Center Post*), and place as shown. Join with **CC** in 6 places as shown. This is the *Front Assembly*.



STEP 2

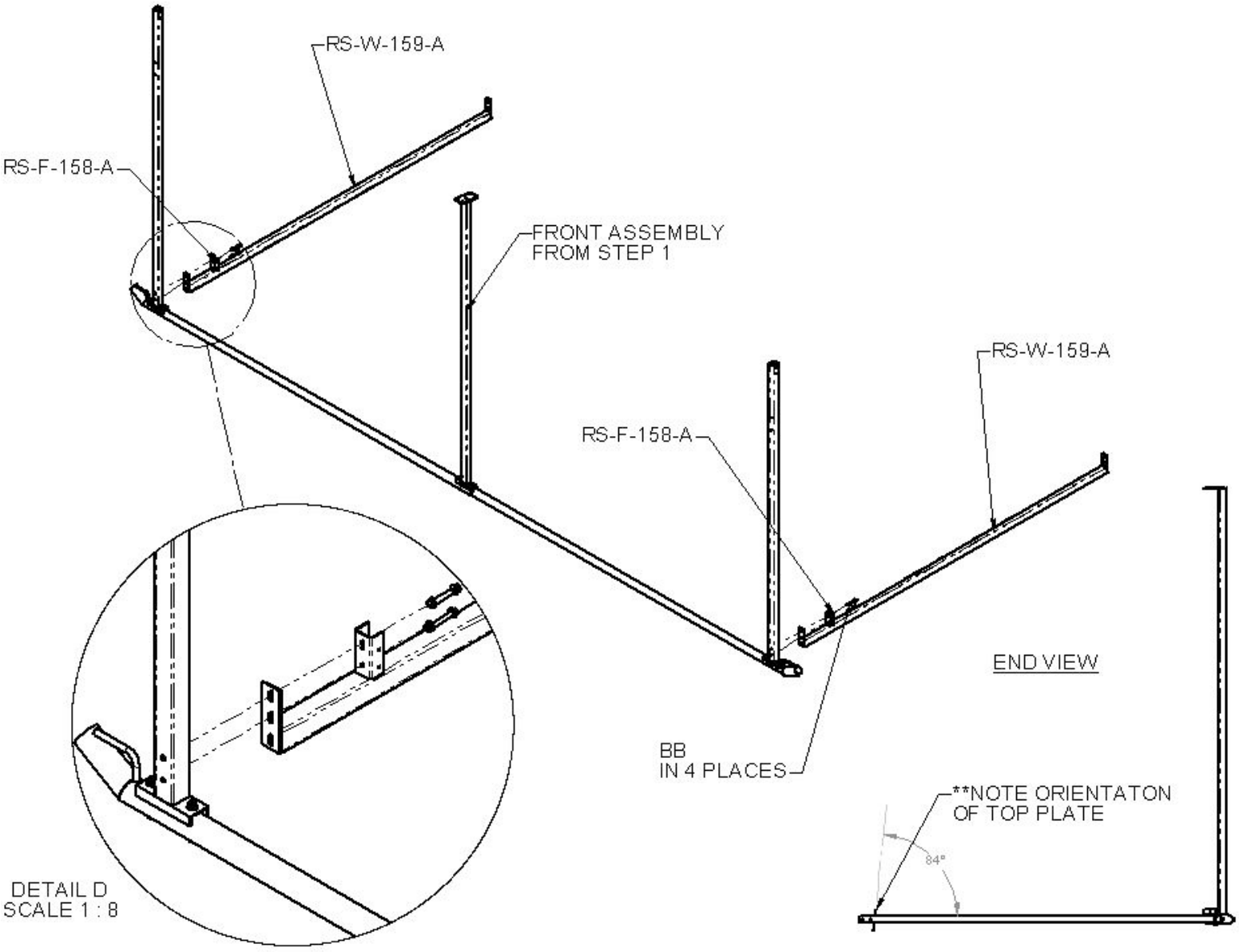
Locate and connect the remaining **RS-W-160-A** (*Female Base Runner*) to the remaining **RS-W-165-A** (*Male Base Runner*) as explained previously in Step 1 by sliding the smaller pipe section of **RS-W-165-A** into the larger pipe section of **RS-W-160-A** until the bolts holes line up. **Note; In some kits these may arrive joined as one piece. Locate 2x **RS-W-130-A** (*Back Outer Posts*) and 1x **RS-W-140-A** (*Back Center Post*), and place as shown. Join with **CC** in 6 places as shown.
This is the *Back Assembly*.



STEP 3

Locate 2x **RS-W-159-A** (*Lower Connector Beam*) and 2x **RS-F-158-A** (*4 in. Side Channel*) and connect to the *Front Assembly* previously completed in Step 1. Join with

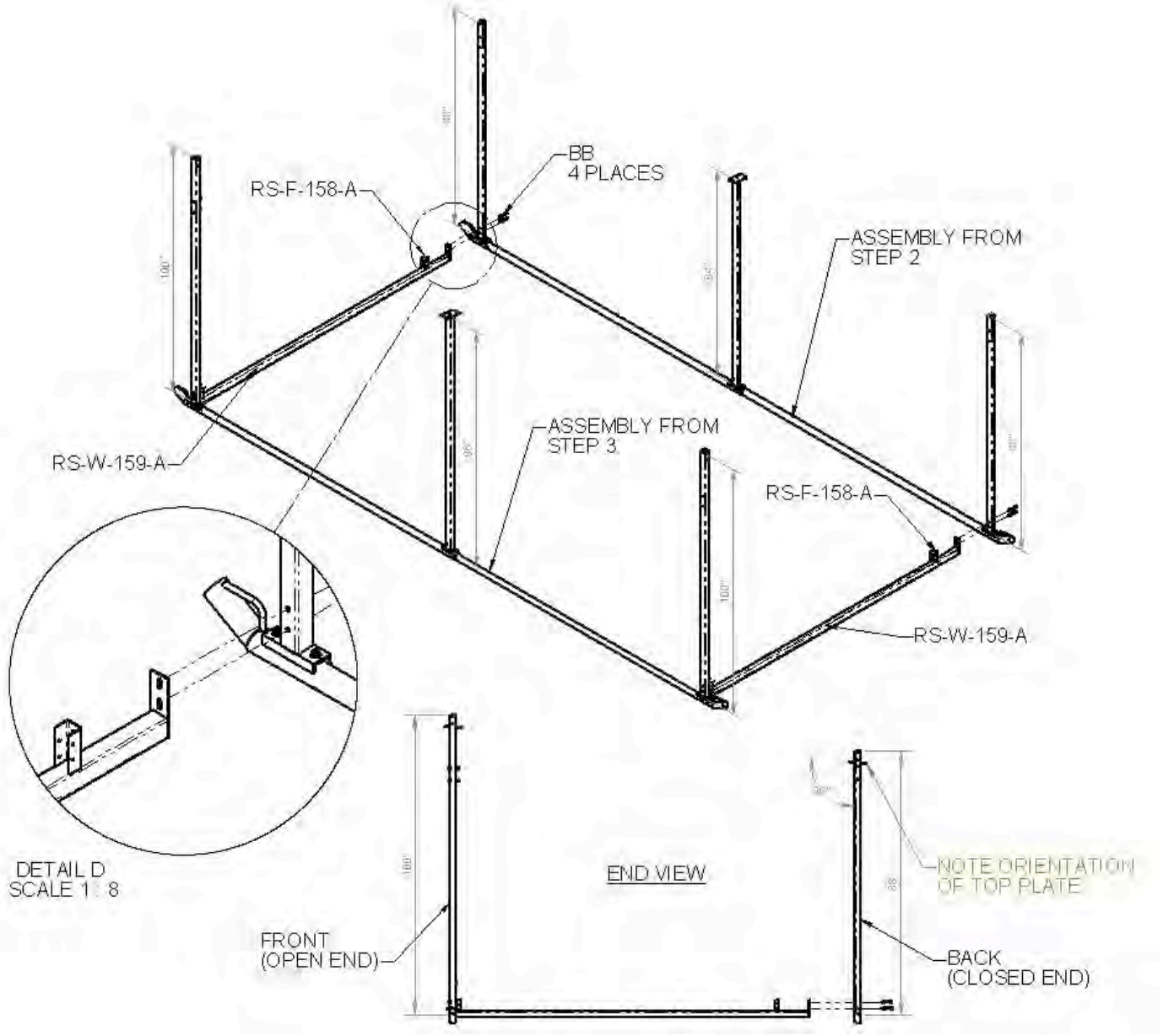
BB in 4 places as shown. Watch the orientation of the top plate of the *Front Center Post* (**RS-W-120-A**). If not as shown, correct by removing the *Front Center Post* (**RS-W-120-A**), turning it over and re-bolting.



STEP 4

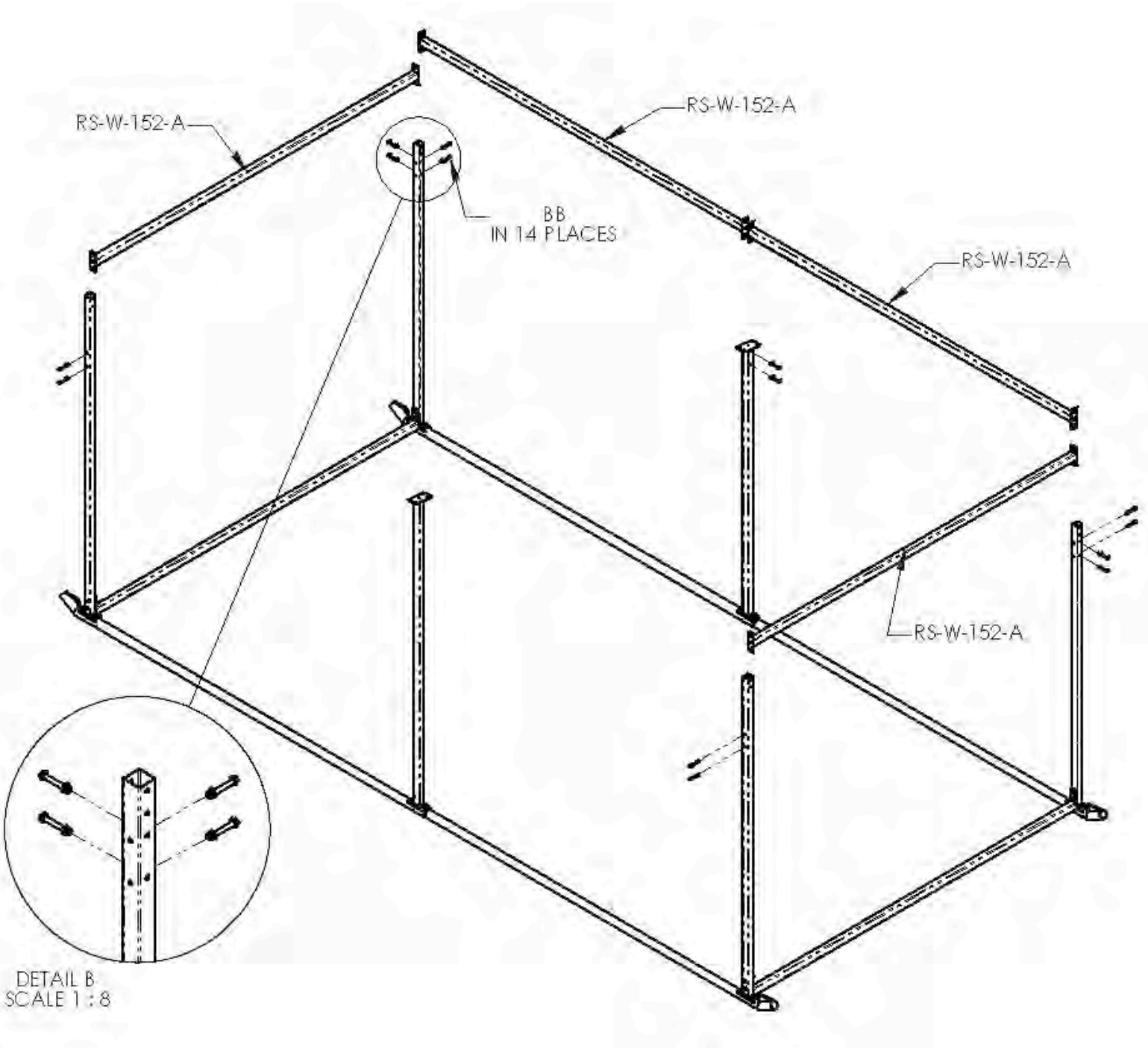
**Note: make sure to use 2 people for this step.

Now using the *Lower Connector Beams* (**RS-W-159-A**) tilt the Front Assembly previously completed in Step 3 up. The *Lower Connector Beams* (**RS-W-159-A**) should now be lying on the ground. Locate the remaining 2x **RS-F-158-A** (*4 in. Side Channels*) and position as shown. Join with **BB** in 4 places as shown. Watch the orientation of the top plate of the *Back Center Post* (**RS-W-140-A**). If not as shown, correct by removing the *Back Center Post* (**RS-W-140-A**), turning it over and re-bolting.
This is the *Frame Assembly*.



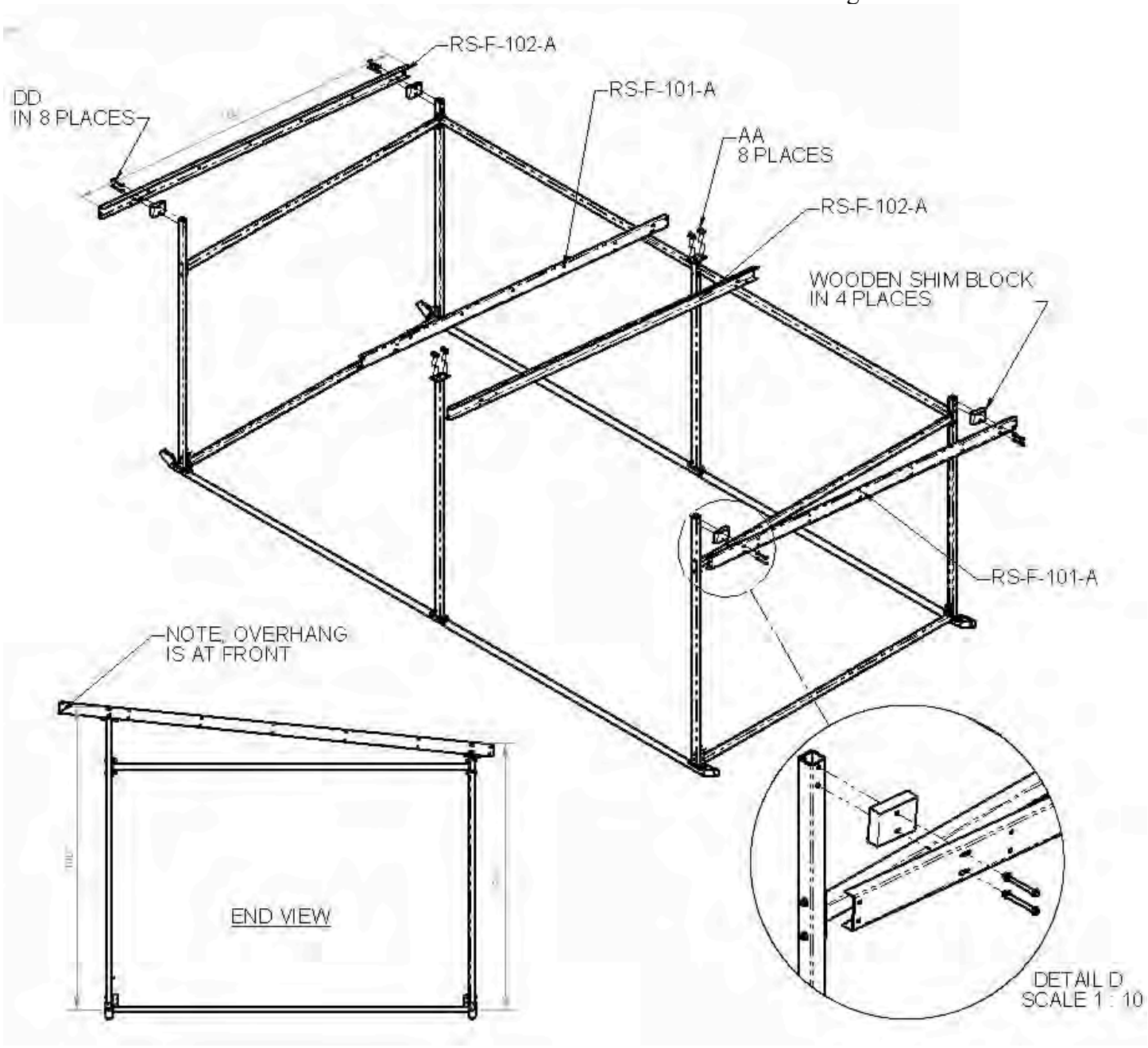
STEP 5

Locate 4x **RS-W-152-A** (*Mid Connector Beam*) and connect to the *Frame Assembly* previously completed in Step 4. Join with **BB** in 14 places as shown.


RS-W-152-A
RS-W-152-A
BB
IN 14 PLACES
RS-W-152-A
RS-W-152-A
DETAIL B
SCALE 1 : 8

STEP 6

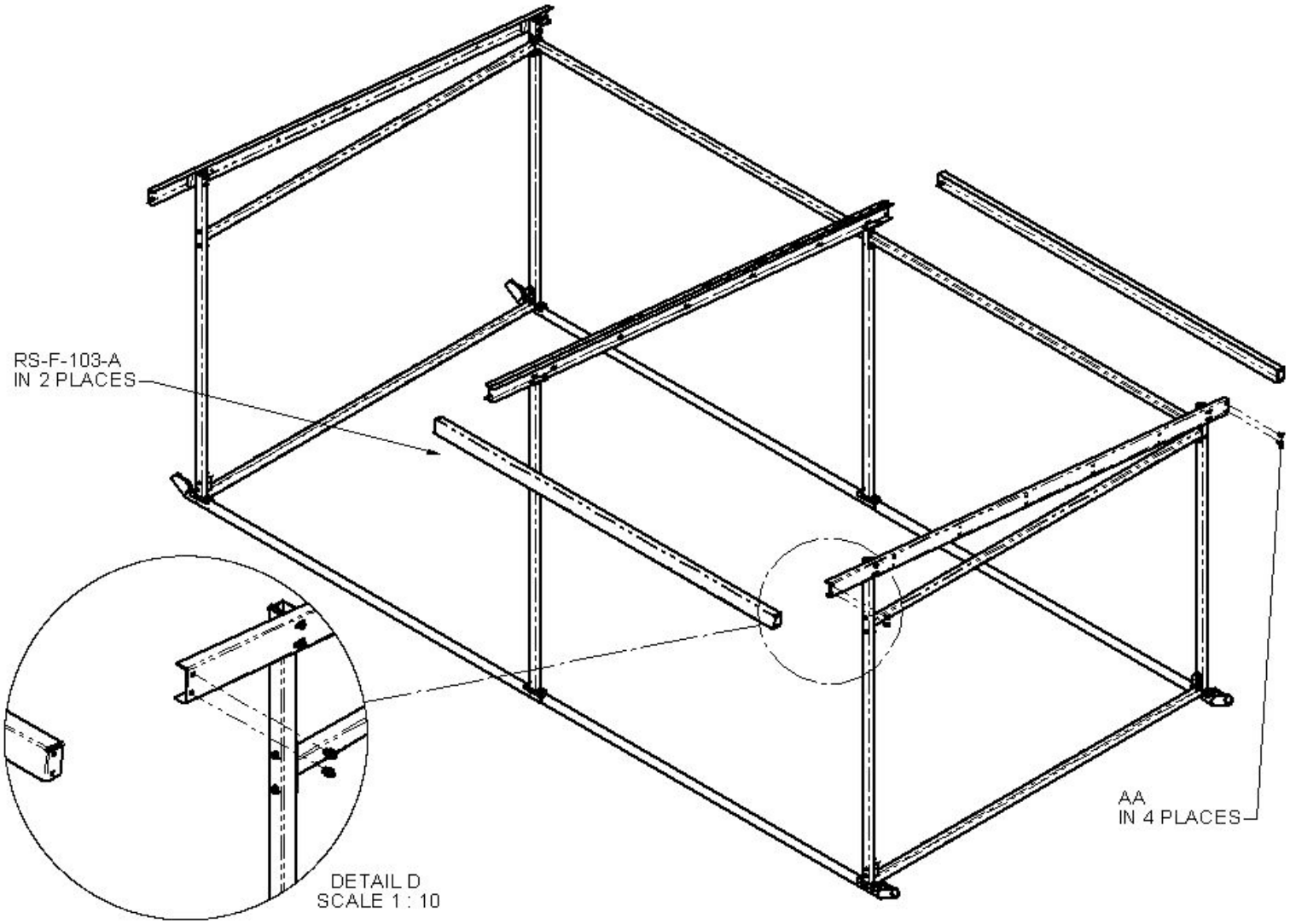
Locate 2x **RS-F-101-A** (*Left Side Roof Channel*) and 2x **RS-F-102-A** (*Right Side Roof Channel)* and connect to the *Frame Assembly* previously completed in Step 5. Join the center *Channels* to the top of the *Front Center* and *Back Center Posts* with **AA** in 8 places as shown. Locate the 4x *Wooden Shim Blocks* that you made earlier. Join the outside *Channels* to the outside of the *Front Outer* and *Back Outer Posts* with *Wooden Shim Blocks* and **DD** in 8 places as shown. The bolts pass thru the slots in the outside *Channels* and then the holes in the *Wooden Shim Blocks* before connecting to the *Posts*.



STEP 7

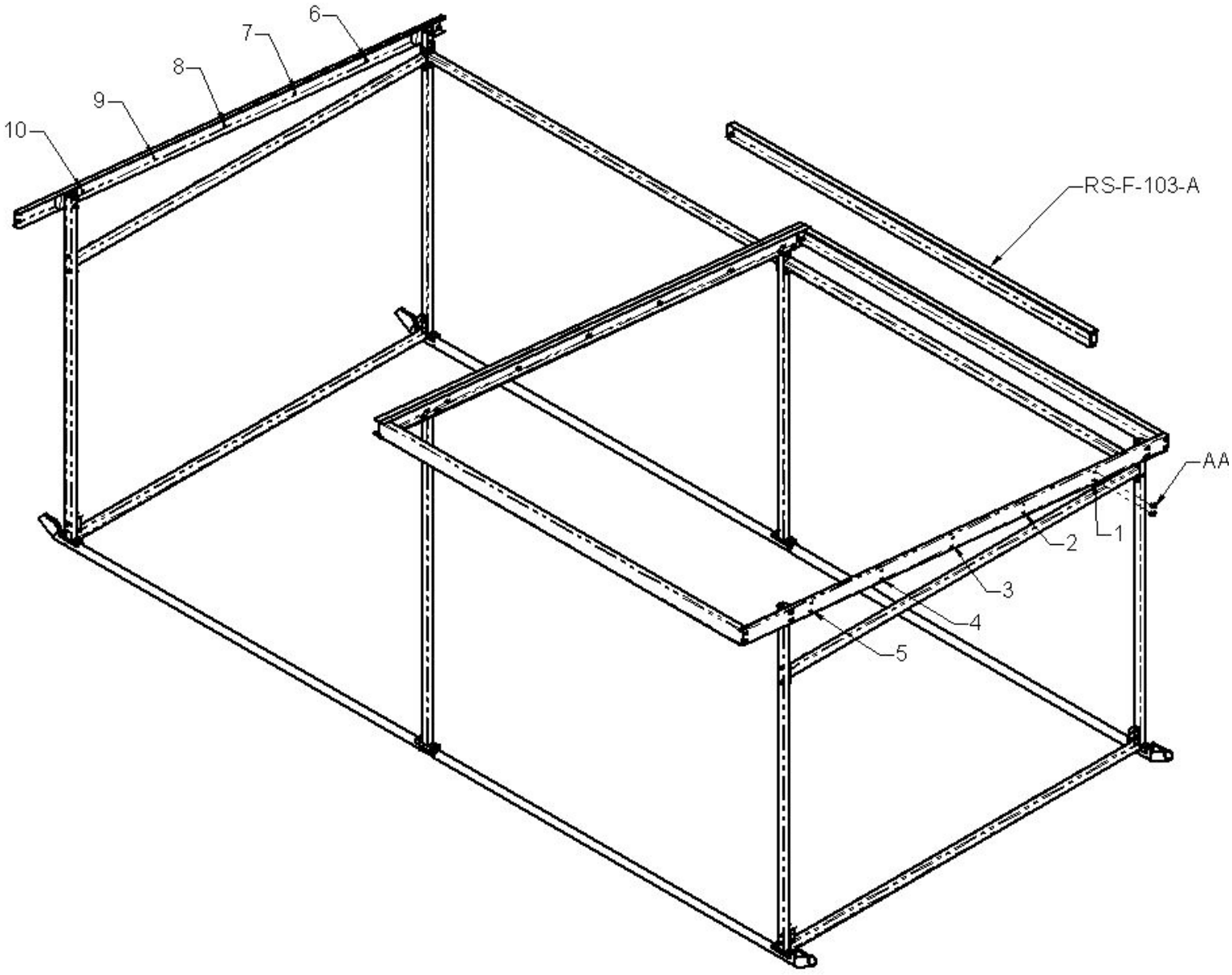
Locate 2x **RS-F-103-A** (*Cross Roof Channel*) and connect to the *Channels* on the *Frame Assembly* previously completed in Step 6. Join the ends of the *Cross Roof Channels* (**RS-F-103-A**) to the insides of the *Side Roof Channels* with AA in 4 places as shown. Note; keep the open end of the *Cross Roof Channel* (**RS-F-103-A**) to the inside.

Repeat for other side of shed.



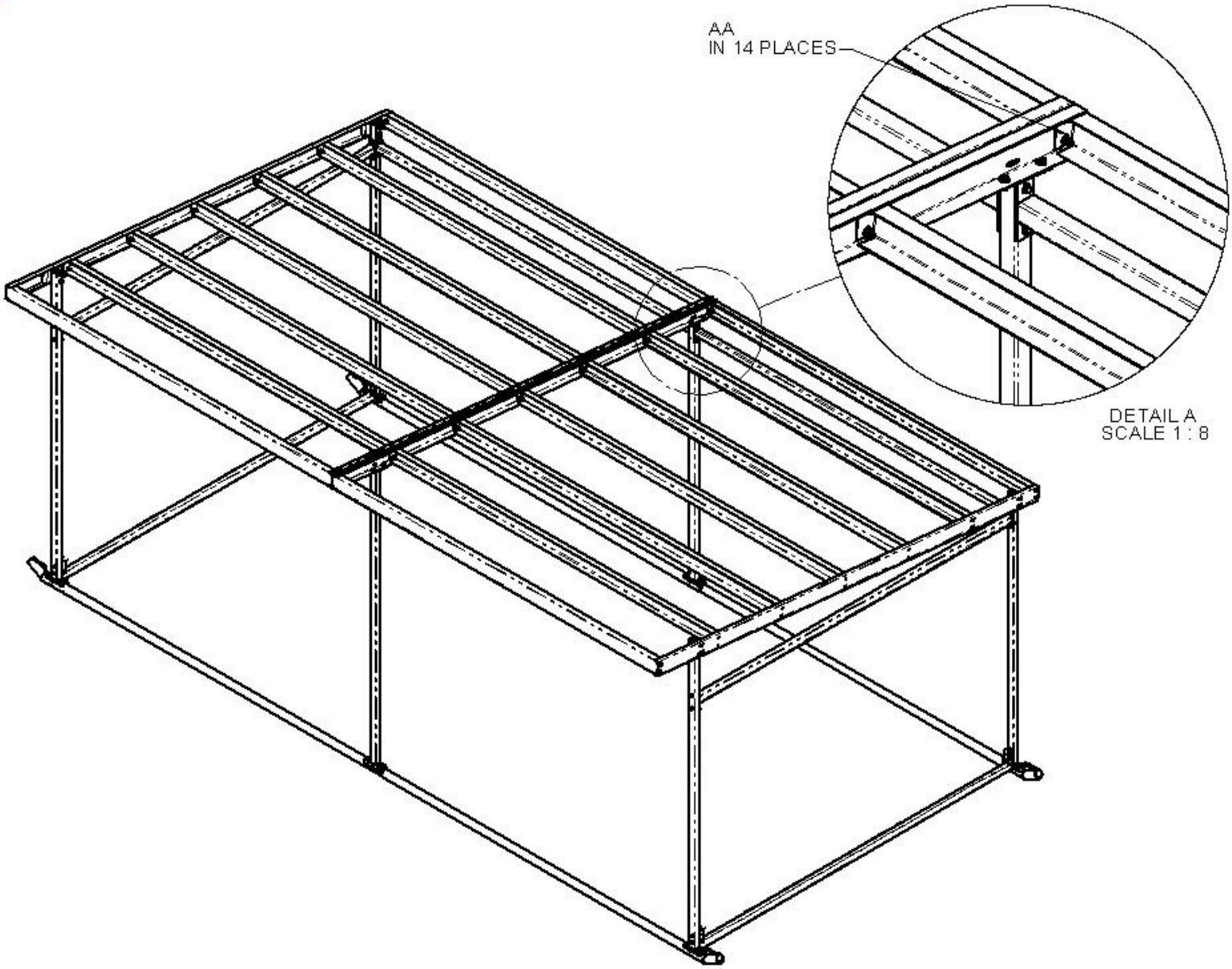
STEP 8

Then locate 10x **RS-F-103-A** (*Cross Roof Channel*) and connect to the *Channels* on the *Frame Assembly* as indicated by the numbers 1 – 10 shown below. Join the ends of the *Cross Roof Channels* (**RS-F-103-A**) to the insides of the *Side Roof Channels* with **AA** in 4 places as shown. Note; keep the open end of the *Cross Roof Channels* 1 – 10 (**RS-F-103-A**) to the back.



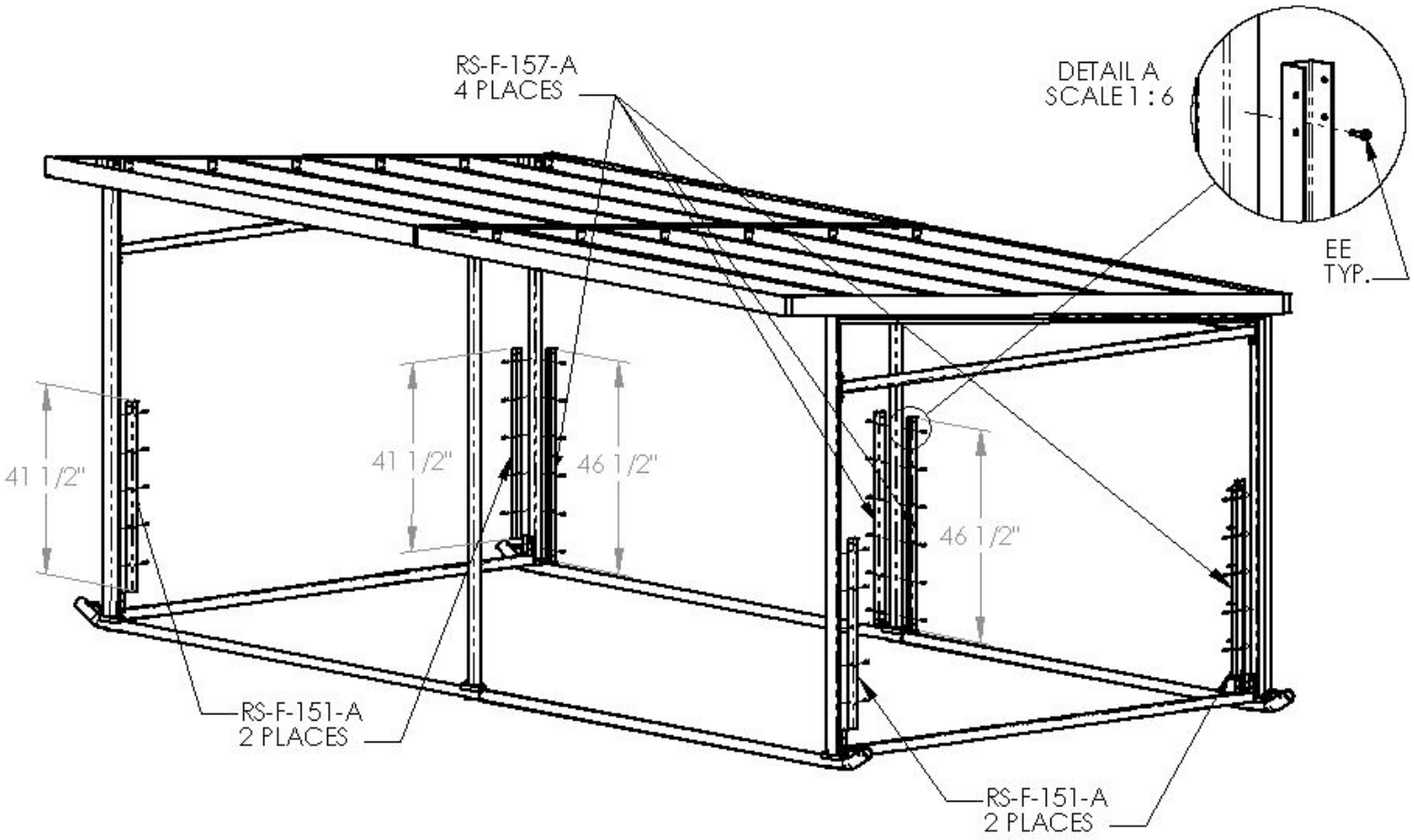
STEP 9

Tighten all bolts with wrench and ratchet and the *Frame Assembly* should look as shown below.



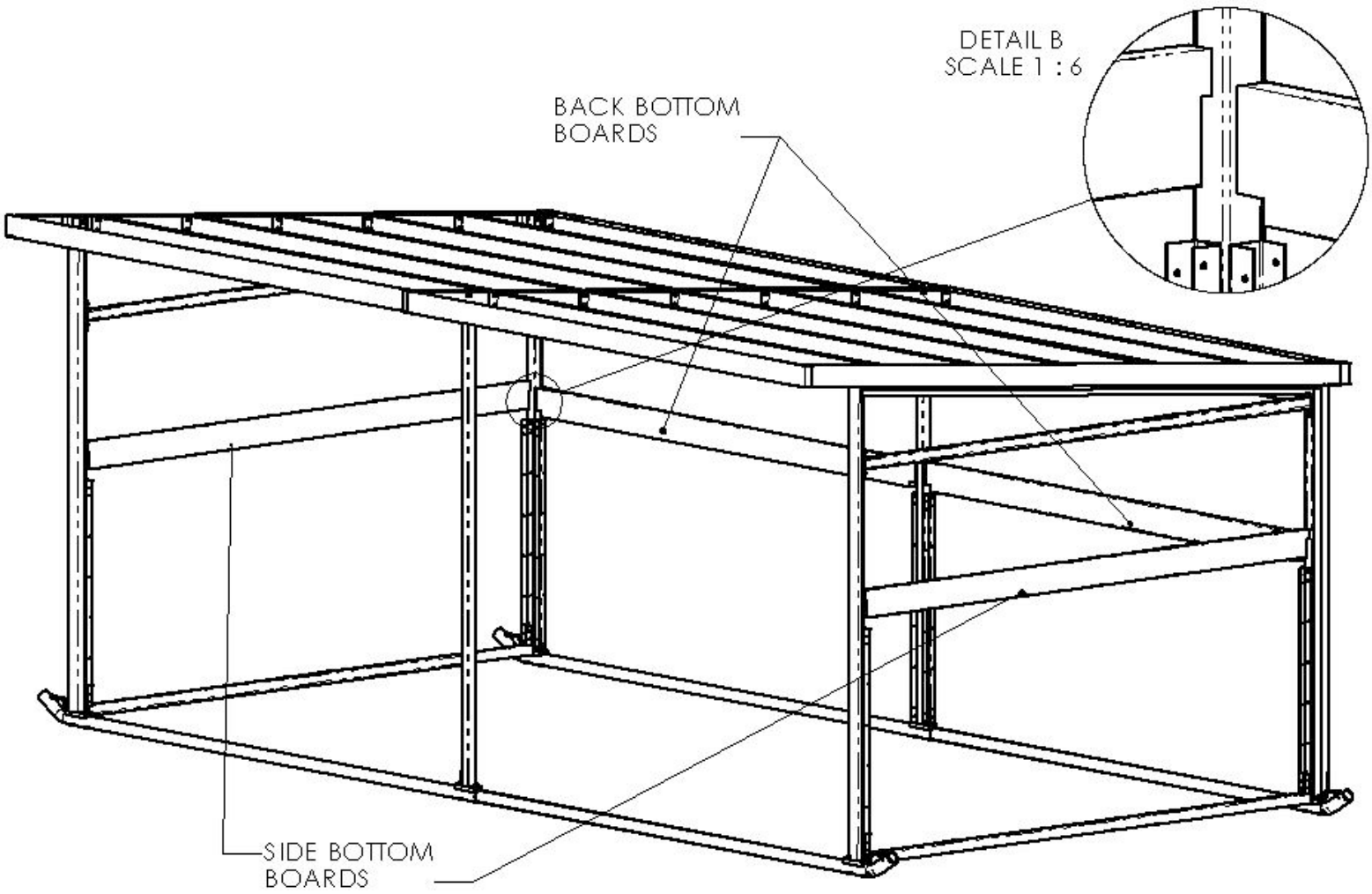
STEP 10

Locate 4x **RS-F-151-A** (*Back Channel*) and 4x **RS-F-157-A** (*Side Channel*). Using an Electric Drill and **EE** (*Self-Tapping Hex Head Screw*) fasten *channels* to the *posts* as shown below.



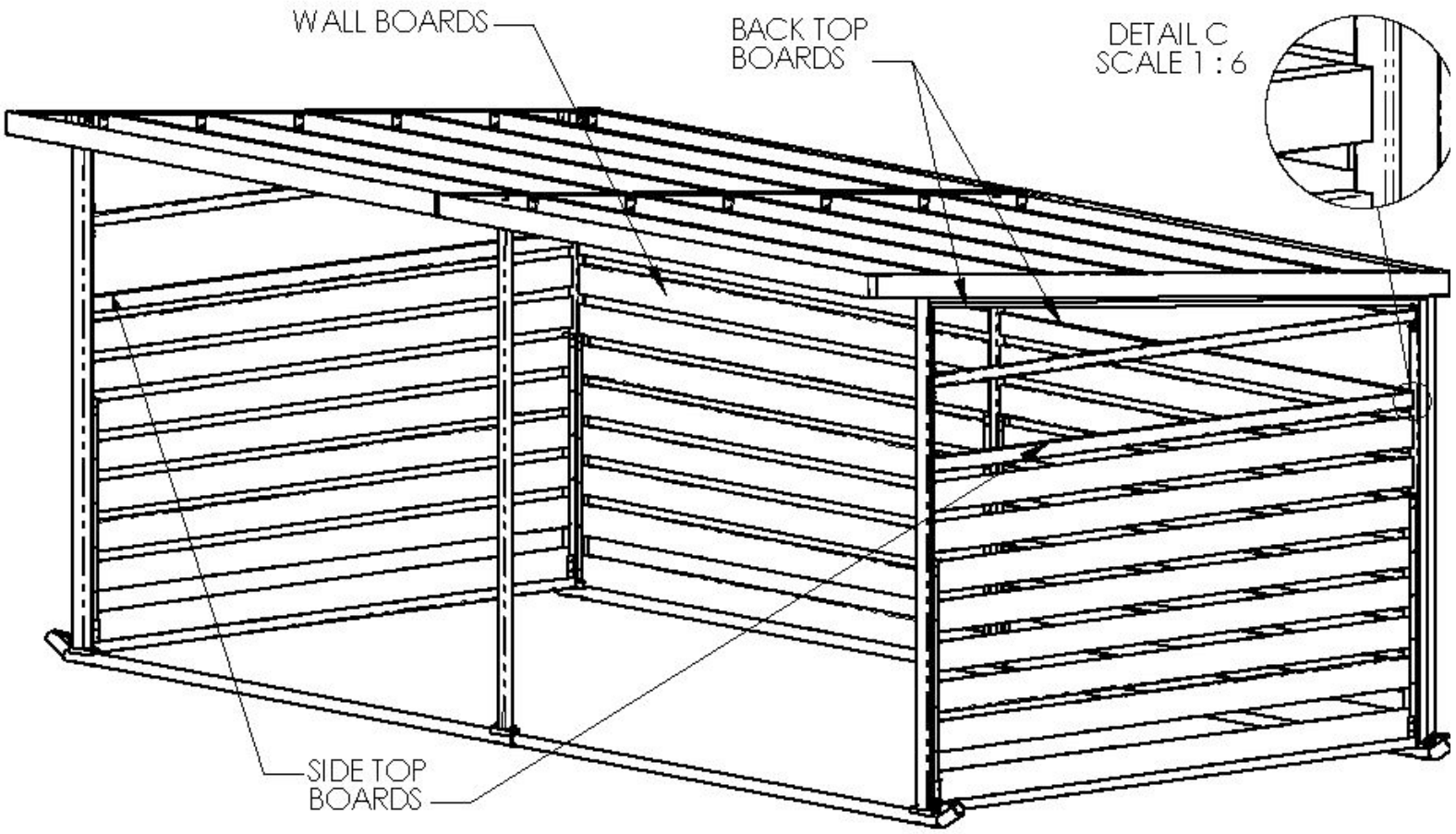
STEP 11

Locate the 2x *Back Bottom Boards* and the 2x *Side Bottom Boards* that you have already cut and slide them into the *Back* and *Side Channels* as shown.



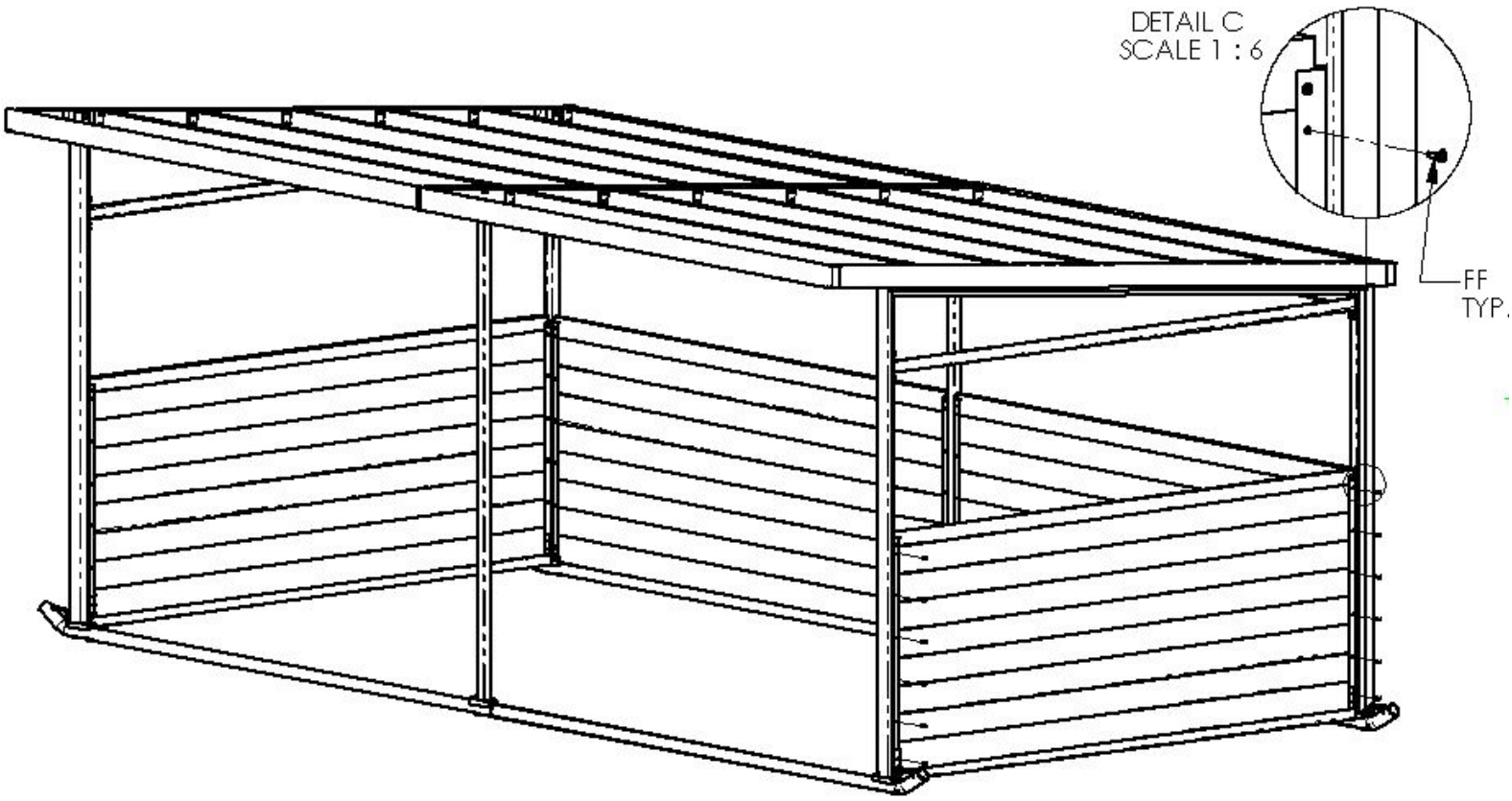
STEP 12

Continue sliding the previously cut *Wall Boards* into the *channels*; Finishing with the *Back Top Boards* and *Side Top Boards* as shown.



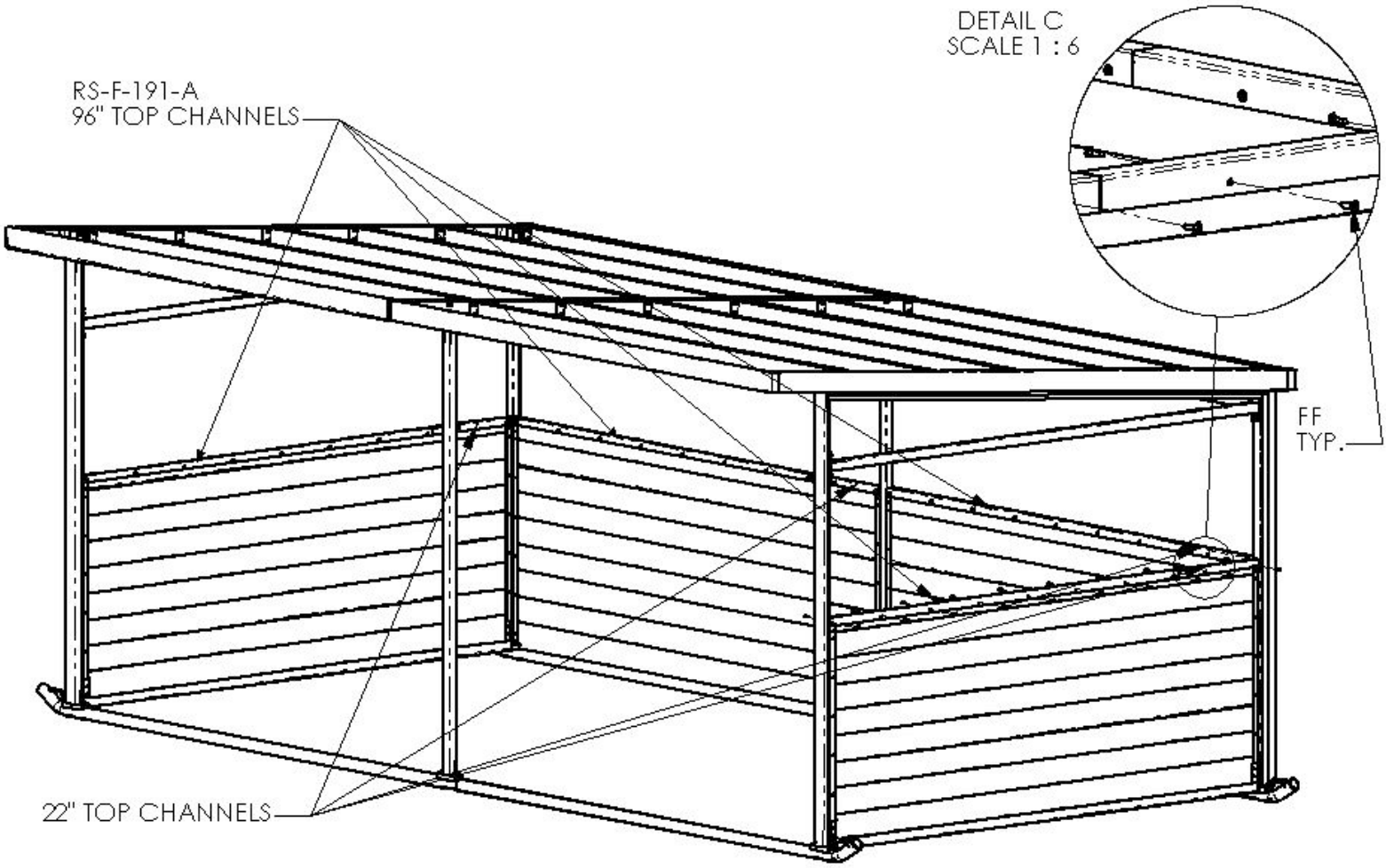
STEP 13

Using the Electric Drill with the Philips Screw Driver Bit and **FF** screws fasten the *channels* to the *Wall Boards* as shown below.



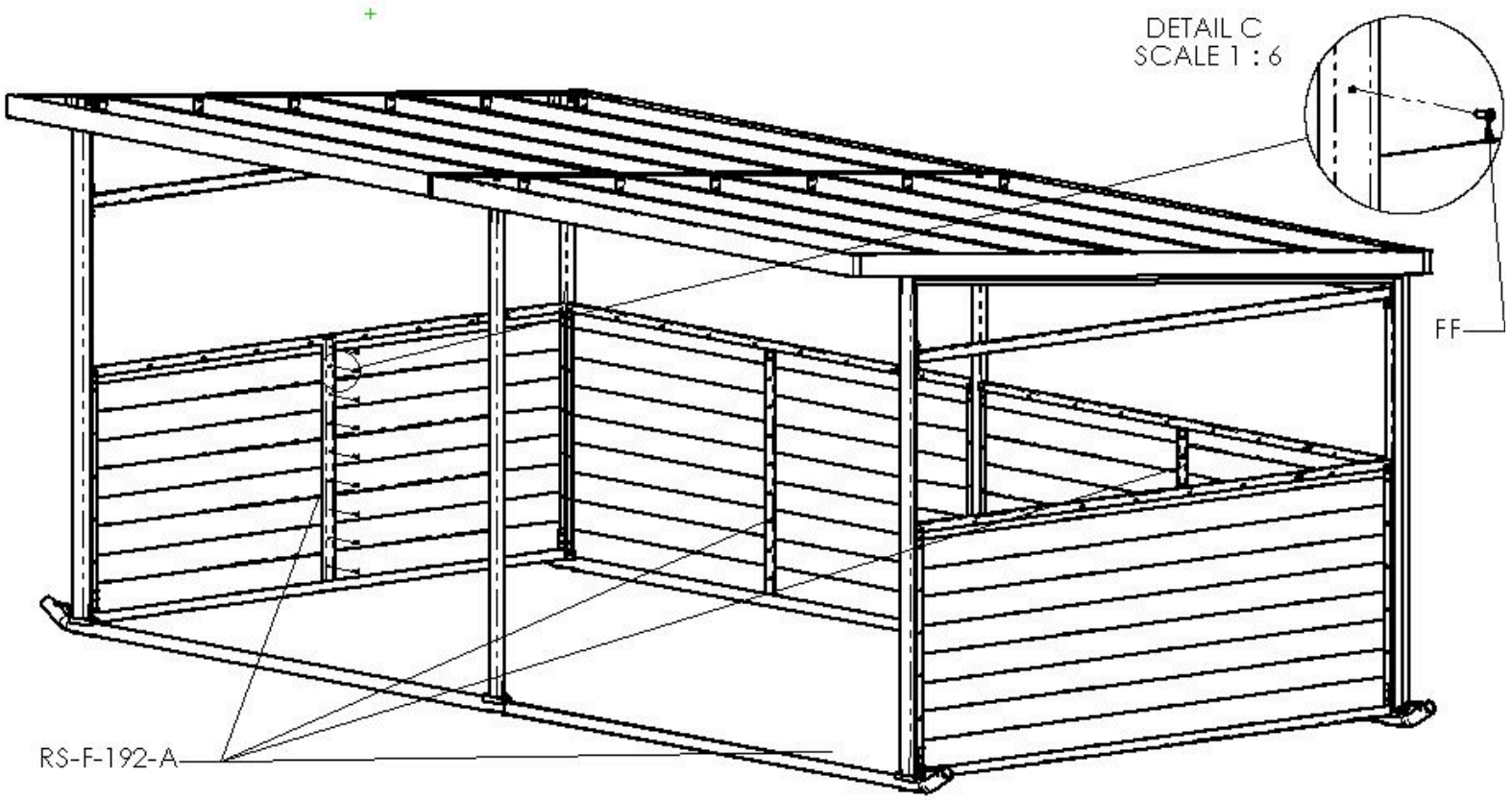
STEP 14

Locate 4x **RS-F-191-A** (*96" Top Channels*) and the 4x **22"Top Channels** that you previously cut and mount them as shown below. Using the Electric drill and the Philips Screw Bit fasten the *channel* to the *Wall Boards* using **FF.**



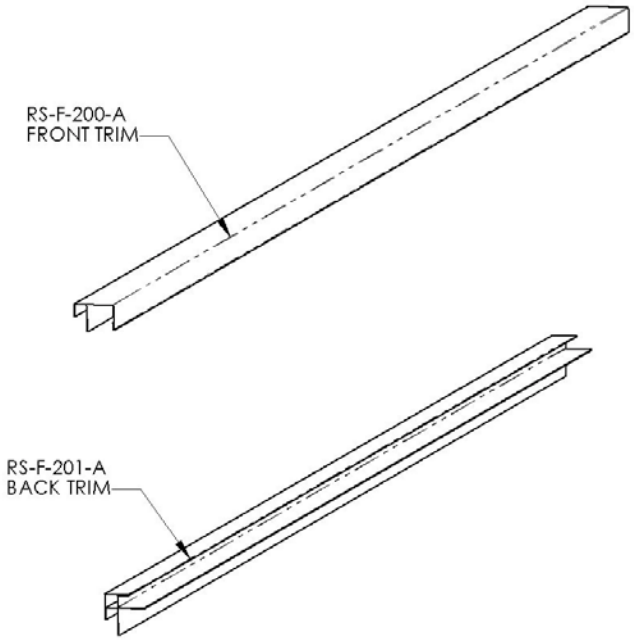
STEP 15

Locate 4x **RS-F-192-A** (*Mid Wall Supports*) and mount them as shown below. Using the Electric drill and the Philips Screw Bit fasten the *Wall Supports* to the *Wall Boards* using **FF**

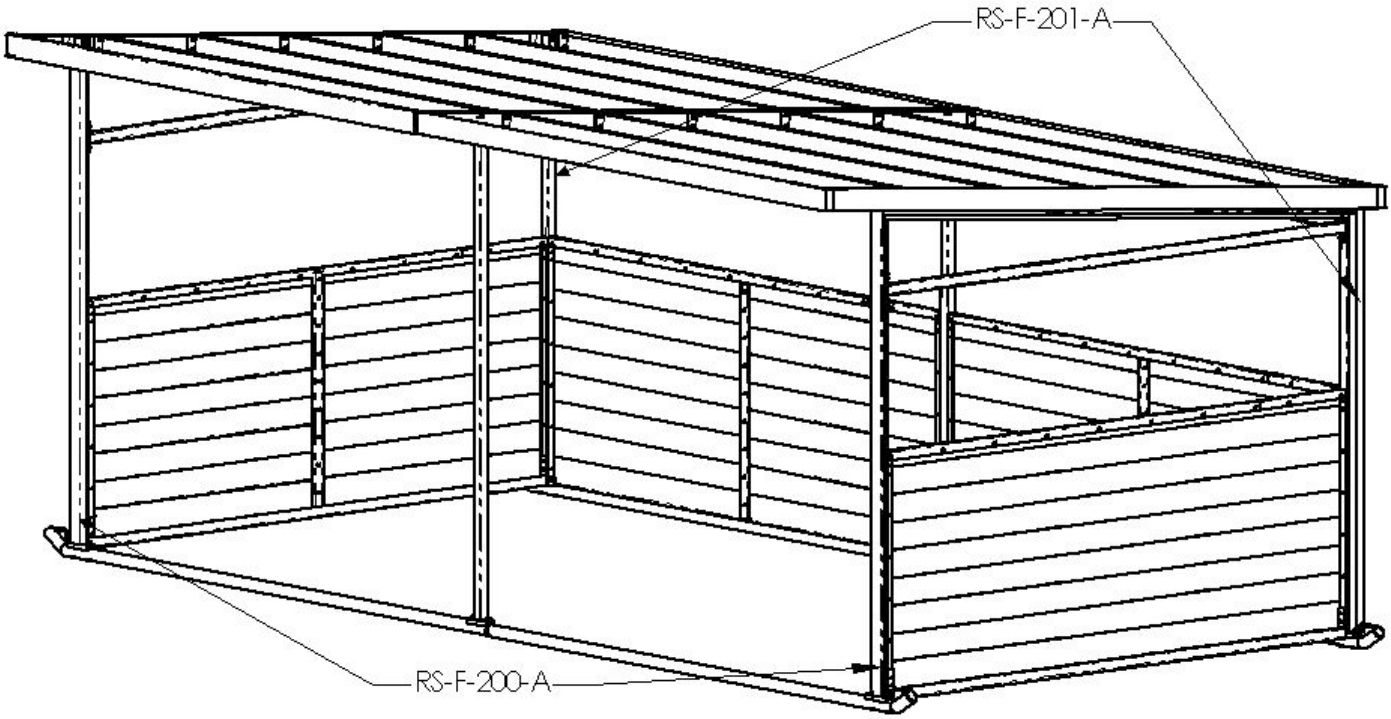


This completes the *Run-In Shed Frame*.

Installing the Trim



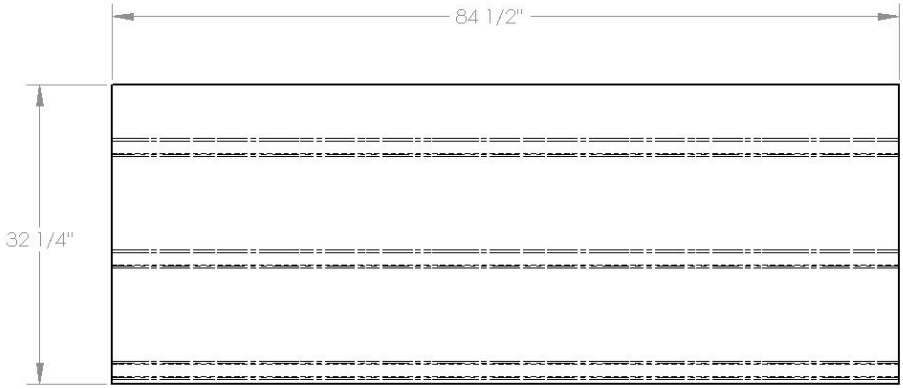
Locate 2x **RS-F-200-A** (*Front Corner Trim*) and 2x **RS-F-201-A** (*Back Corner Trim*) and mount them as shown below using the Electric drill and **HH** (*Self-Tapping Screws*).



Installing the Exterior Steel

Back Wall

Cut 1 sheet of the 84-1/2” long sheet to the width as shown using the Circular saw and the blade for roofing steel. Use this sheet to start along the back wall by inserting the cut edge into the back trim.

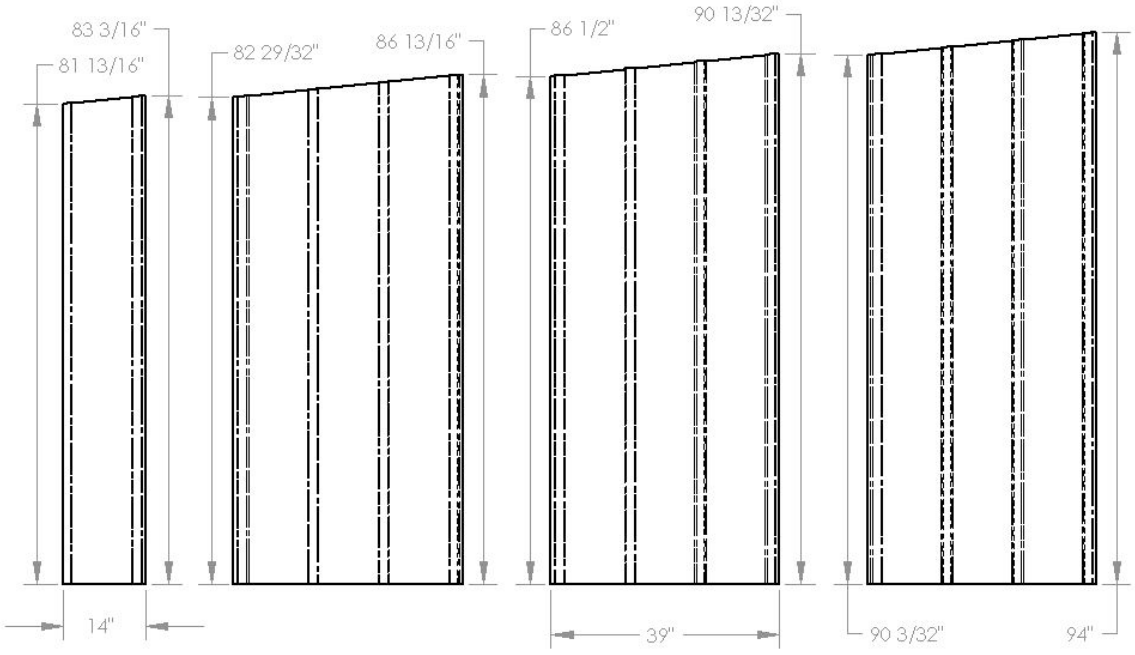


Side Wall

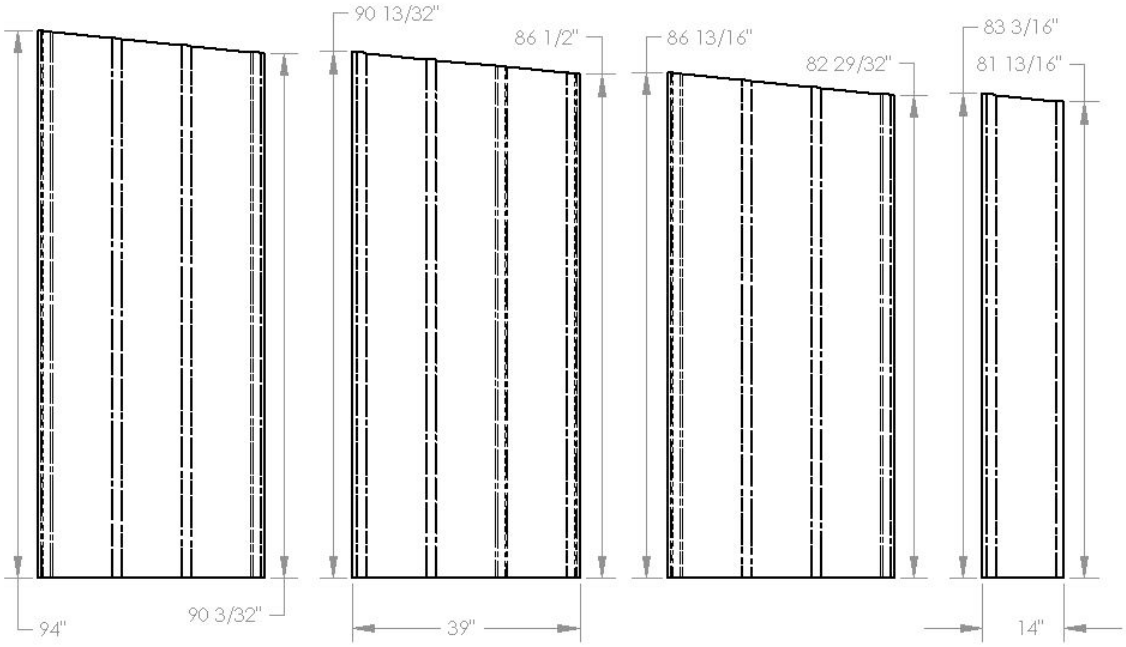
See the following drawings below for dimensions of the side wall steel.

****Note: Cut the largest sheets first and leave the smallest until the end. One sheet is used to cut the smallest piece for both the Left Side and the Right Side.**

Left Side Wall

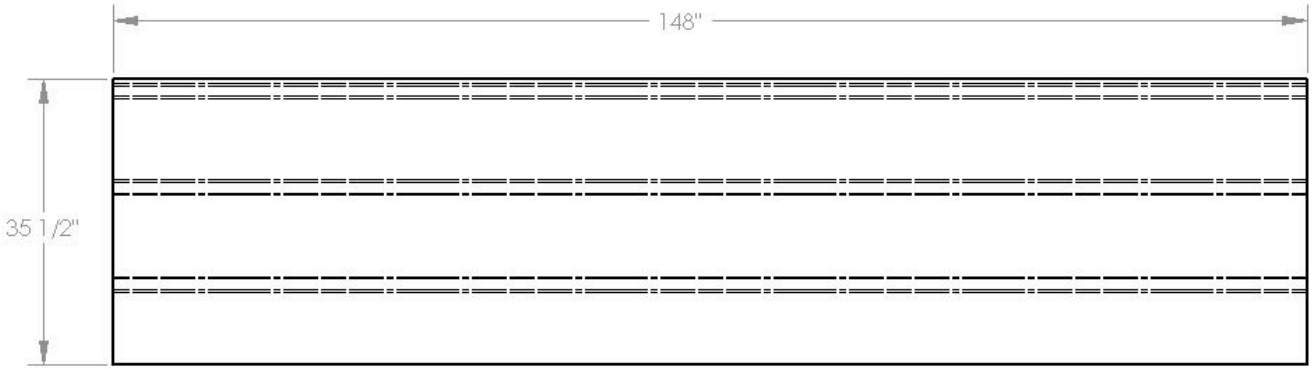


Right Side Wall



Roofing Steel

Cut 1 sheet of the 148” long sheet to the width as shown using the Circular saw and the blade for roofing steel. Use this sheet to start along one side of the roof.



Lightly mark the *Cladding* with a pencil to indicate the position of the beams and wood for future reference. Start at one end and mount the steel using the pencil marks as a guide.

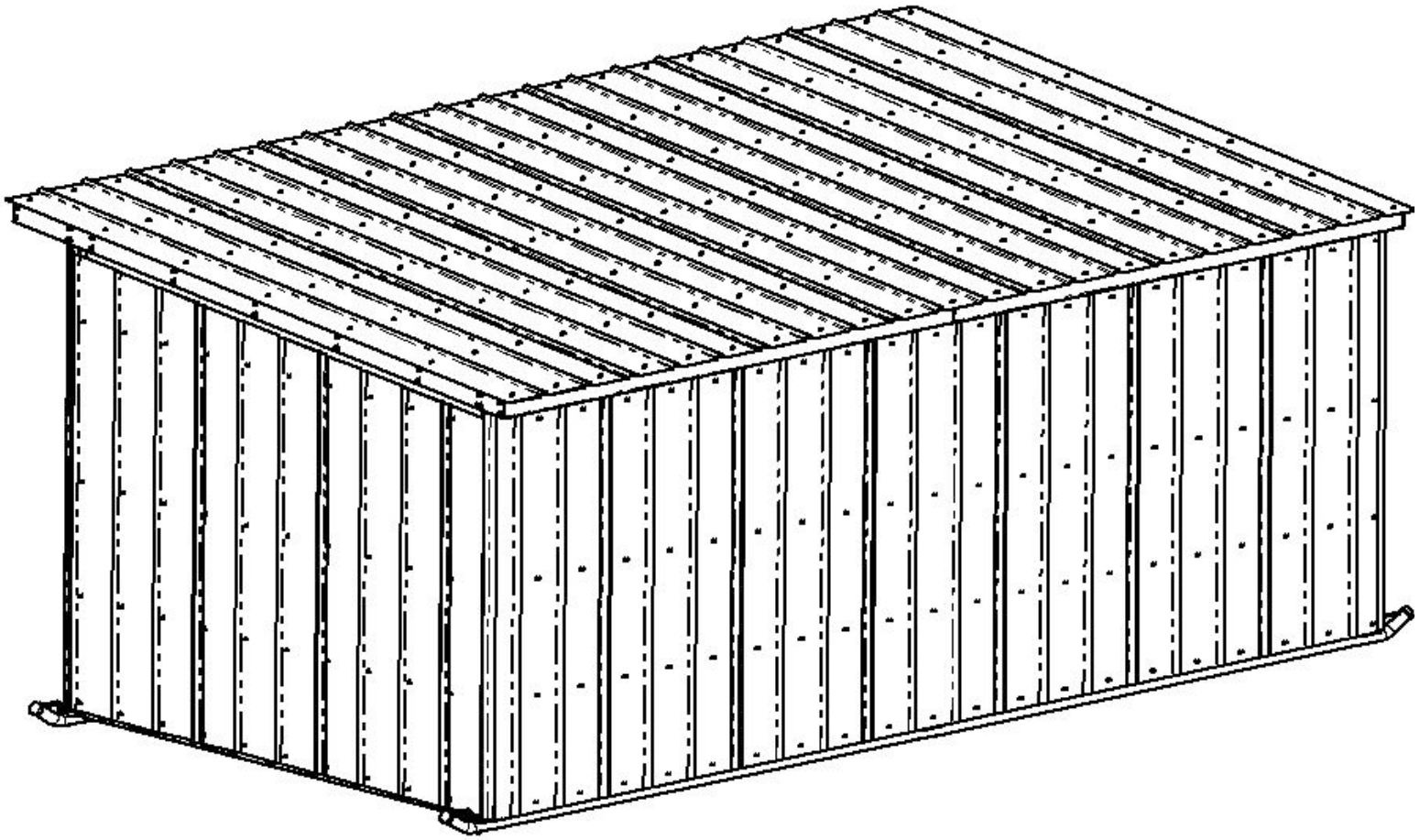
Roofing Steel

Start at one end and overhang the 1st sheet by ½" over the side edge of the shed. Drive screws through the steel and into the Roof Channels making sure to avoid the ribs. Leave the edge loose for the next sheet. Continue with all remaining sheets. The last sheet will need to be cut as well. Take the measurement making sure to add a ½" for the final side overhang.

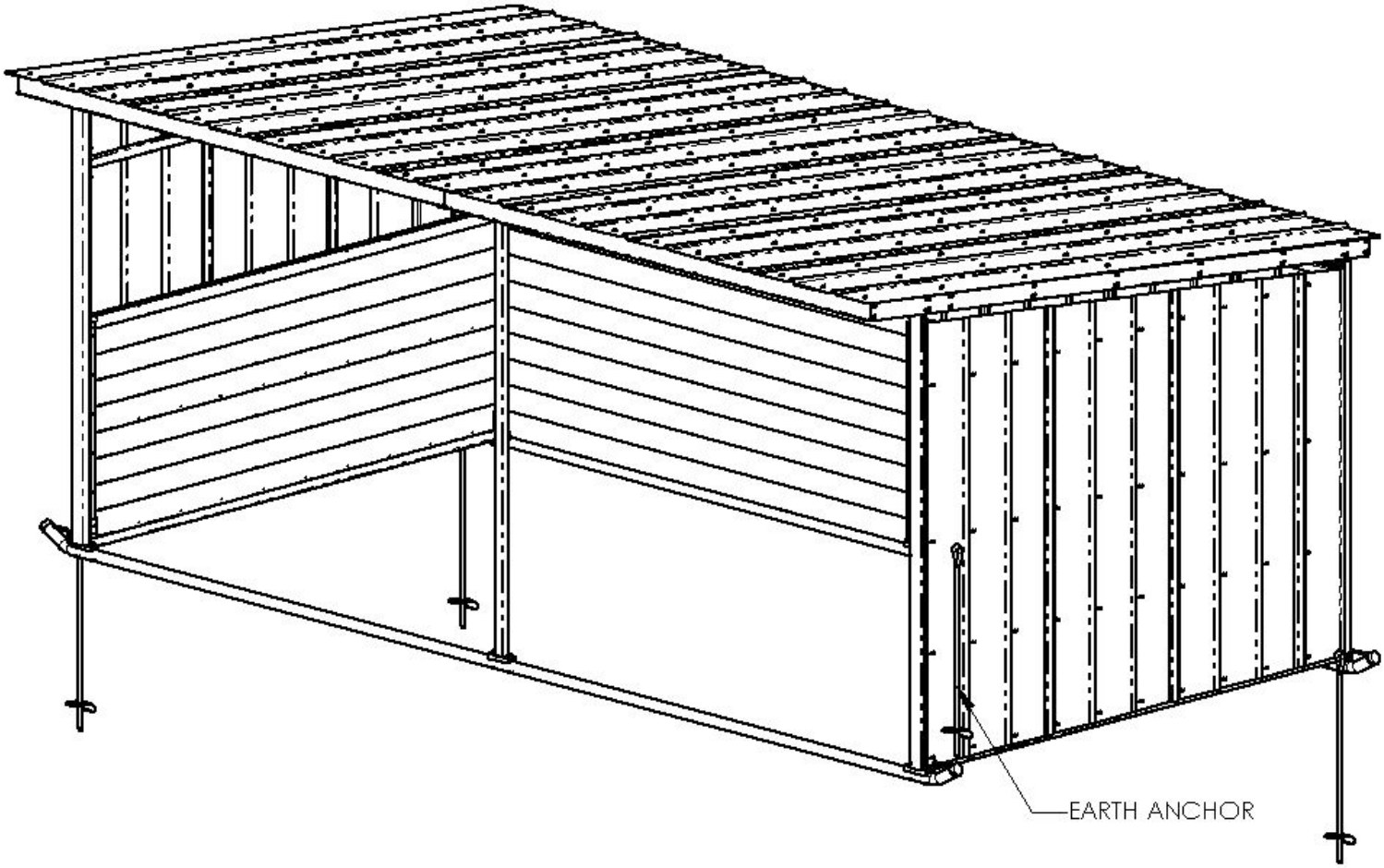
Wall Steel

Starting at the Trim screw the steel to the shed; if at all possible, screws should NOT pass through the ribs. Leave the edge loose so that the next sheet can be overlapped. Continue along until you get to the far end. The last sheet should be the same dimensions as the first one you have cut, but **Check just in case**. Cut the last sheet and mount with the cut edge inside the *Trim*.

Items **GG** and **HH** are both used for fastening the external wall steel, the difference being that **GG** is used where the screw attaches to the boards and **HH** is used where the screw attaches to steel posts or channels.



Once all the steel has been installed, the shed can be moved into its final position and secured in place using the earth anchors. The earth anchors are installed by twisting them into the ground. It is helpful to hammer them as you go with a sledge hammer. In some cases the ground may be too hard and the earth anchors may need to be dug into the ground. The anchors should be mounted at the four corners, just outside of the shed but in between the runners. This is so the horses will not need to walk over it when entering the shed. They should also be within 4" of the rail so that the chain will reach. Then use the chain and supplied links to connect the rail to the earth anchors. To finish off the shed install the supplied plastic caps on the open ends of the rails. The shed is now complete.



Finished!
Attached are additional instructions if you are in a high snow load area.

RAMM Stalls & Horse Fencing

RUN-IN SHED OPTIONAL SNOW-LOAD SHEET

If a building permit is required the following additional supports can be added to conform to local municipal building codes. This takes the snow load rating to 45?? lb/sq.ft. and is adequate for most areas of Canada and the United States.

This can be added to existing structures as well as new buildings. The lumber and hardware is not included in the standard Run-In Shed kit.

The following items need to be purchased;

Wood

4x	2” x 10” x 12 foot Lumber

Hardware

12x	3/8”-16 UNC Bolts x 4-1/2” long
6x	3/8”-16 UNC Bolts x 6” long
18x	3/8”-16 UNC Nuts
18x	3/8” Lock Washers
36x	3/8” Flat Washers

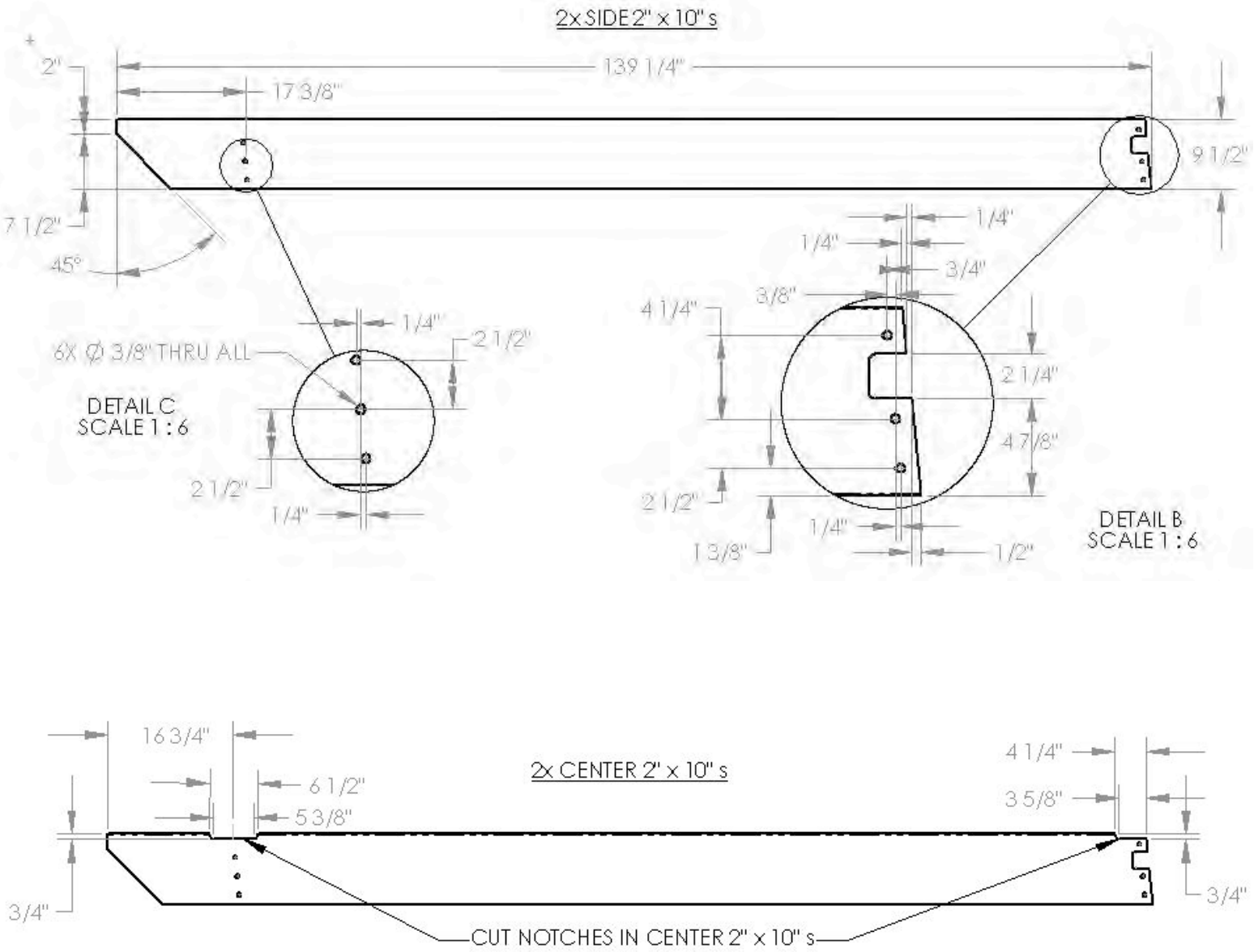
The following tools are required;

- Circular Saw
- Blade for above to cut 2” x 10” lumber

- Electric Hand Drill
- 7/16” Drill bit for above
- 9/16” wrench
- 9/16” socket w/ 3/8 drive ratchet

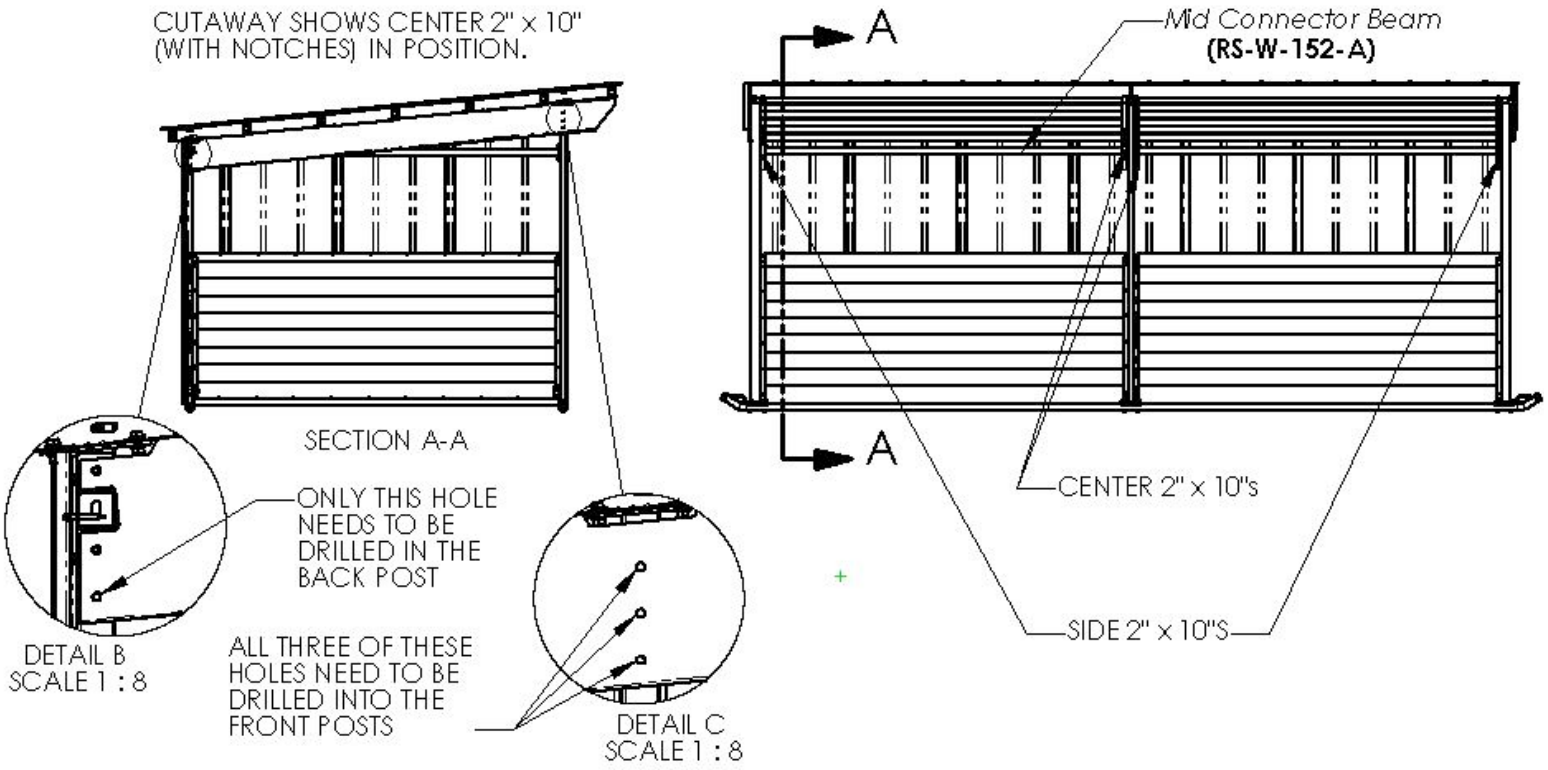
STEP 1

Using the Circular saw cut the 2” x 10” as shown. 2 are required for the Outside and 2 are required for the Center. The Notches are only necessary for the Center boards and should NOT be cut into the Side boards. Using the Electric Drill, drill the necessary holes into the wood as shown.



STEP 2

Remove the Nuts and Bolts for the rear *Mid Connector Beam* **RS-W-152-A** (See STEP 5 in the Run-In Shed Instructions) The steel sheeting and corner trim may have to be removed in order to access these bolts. Hold the Side 2" x 10"s in position and mark the holes that need to be drilled into the Posts. Three holes need to be drilled into the front post, and only one additional hole needs to be drilled into the back post. (The 2 holes for the *Mid Connector Beam* should line up with the holes in the 2" x 10"). Lower the Board and drill the holes into the posts.



STEP 3

Raise the board into position and attach with the new hardware. Use the 6” long bolts for the Center Boards and the 4-1/2” long bolts for the Side Boards. Tighten with wrench and socket and replace the steel and trim if it was removed.