



FOREVER REDWOOD

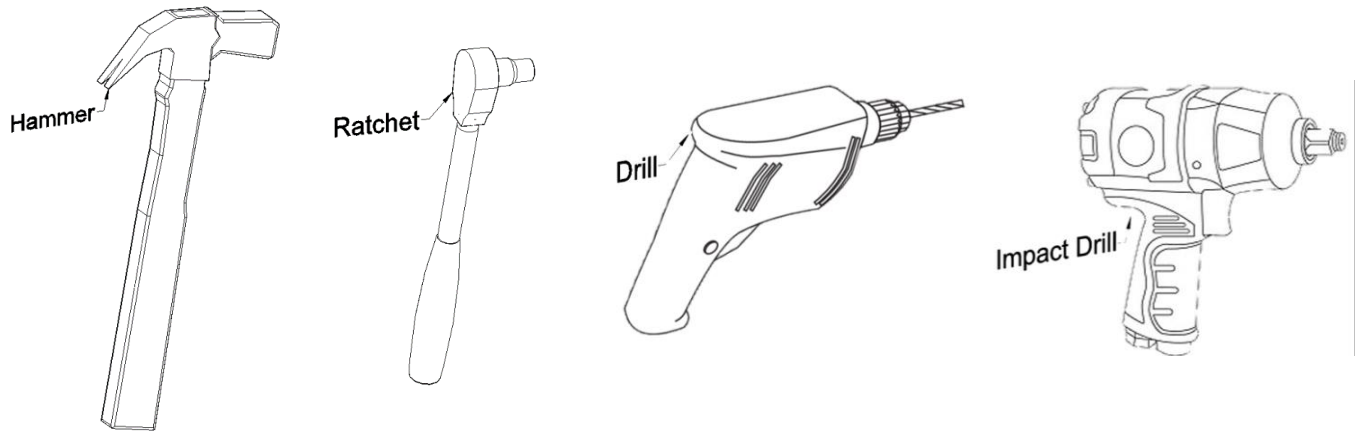
From the Forest, For the Forest since 1995

866.332.2403 (TOLL FREE) (707) 640.29.05 (Option 4) Direct Line for the Design Department; 7am – 7pm Pacific Time, Monday-Saturday

ASSEMBLY INSTRUCTIONS FOR THE CARDINAL'S NEST PAVILION

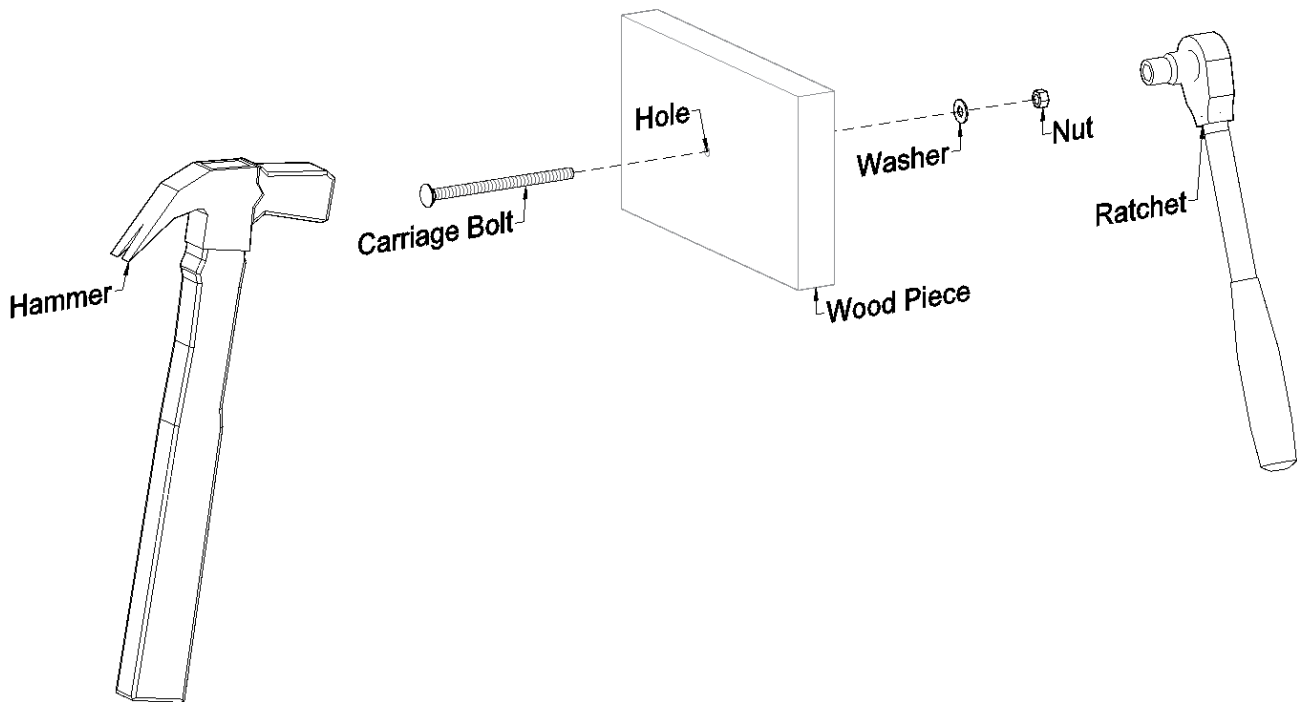


NOTE: Assembly is best done by two people. To assemble your product, you need a Hammer, a Ratch, a Drill, and an impact drill.



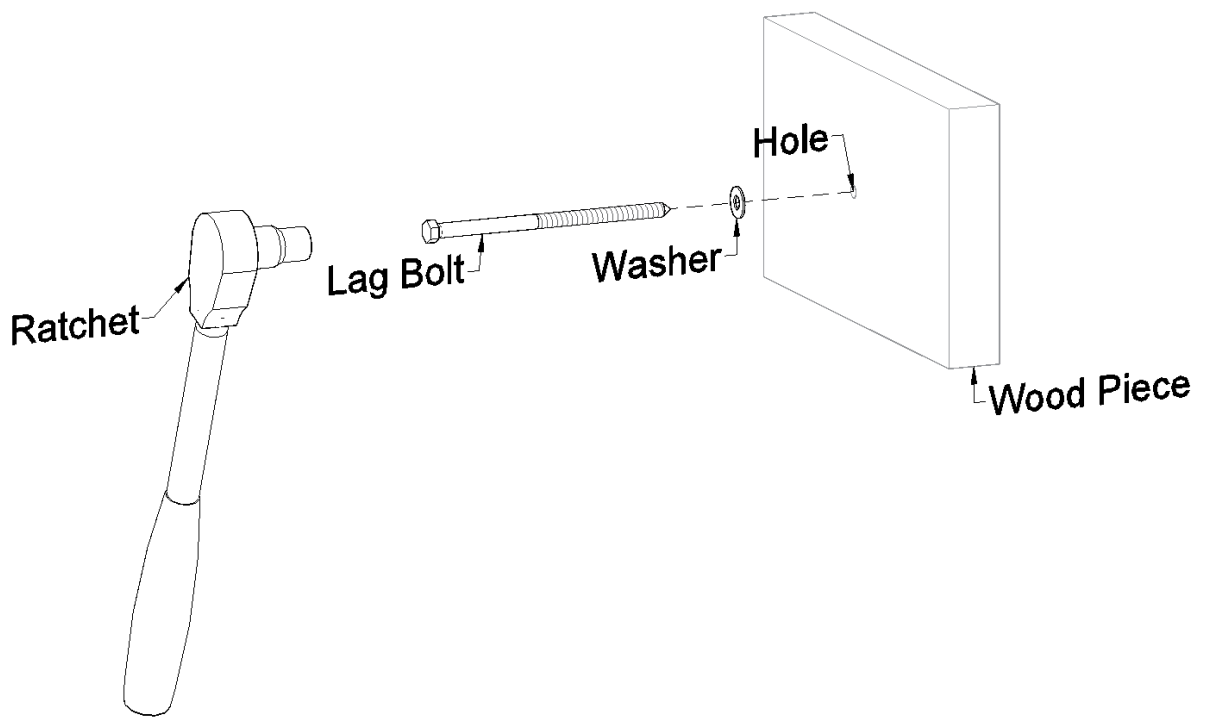
Required Tools (Are not included in your hardware packing).

PROCESS TO INSTALL THE HARDWARE PROVIDED.



To install the bolts.

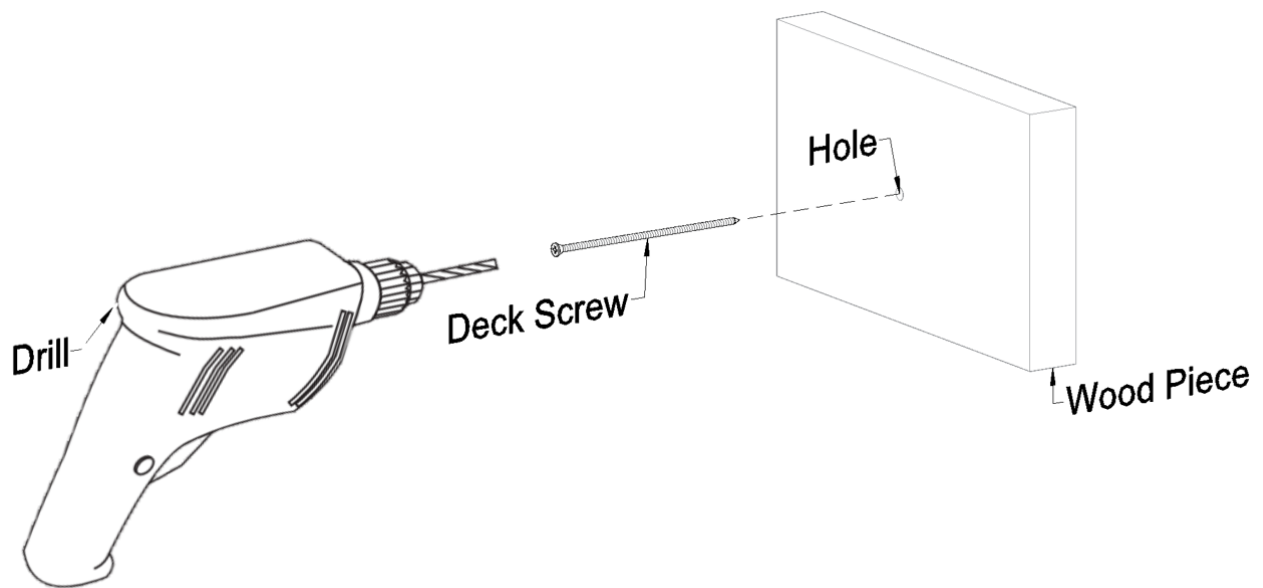
Insert the carriage bolts into the holes and lightly tap with a hammer until the square neck fit in the wood piece and the bolt head must flush with the wood piece. Finally, place the washer and the nut and carefully tighten it using a ratchet with the necessary socket or a wrench.



To install the lag bolts.

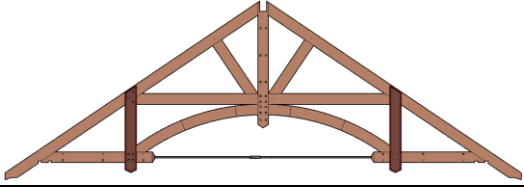
























Place the washers in their lag bolts. After that, insert the lag bolts into the holes and carefully tighten it using a ratch with the necessary socket.

Use the washers only for the Wood Pieces.


















To install the deck screws.

Insert the deck screws into the holes and carefully tighten it using a drill.

CONTENT OF BOXES		
Description	Drawing	No.
Perimeter and Central Hammer Beam Roof Trusses		1
Rafters		1.1
Hammer Beam		1.2
King Post / King Post Covers		1.3
Collar Tie		1.4
Struts		1.5
Arches		1.6
Hammer Posts Only for the Central Roof Trusses		1.7
Tensor		1.8
Lateral Posts		2
Central Posts		3
Single Supports		4
In-Between Blockings		5
Main Knee Braces		6
Secondary Knee Braces		7
Ridge Beams		8
Rafters		9
Roof Boards		10
Roof Trims		11
Boots		12
Curtain bases		13
High wind Anchor Bases		14
Curtain roads		15
Rafter Bases		16
L-plaques		17

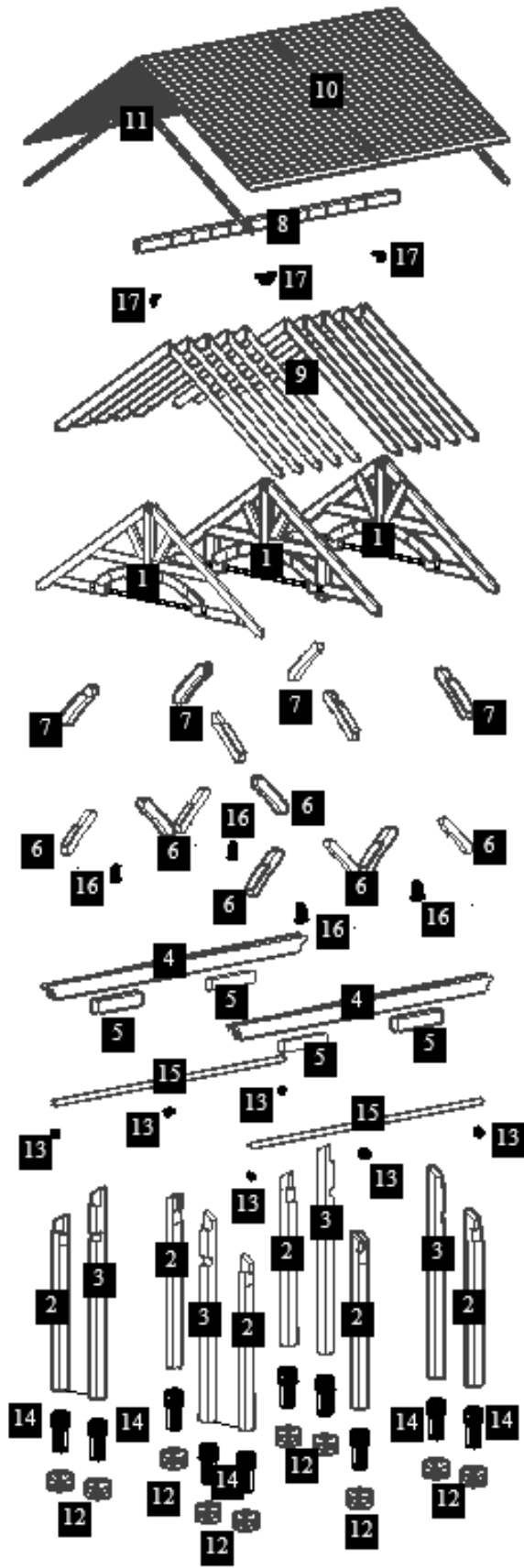
Note: Part numbers in the Content of Boxes Table are for reference only. These do not match to the numbers marked on the parts sent.

HARDWARE LIST		
Description	Drawing	No.
3/8" x 3 1/2" Lag Bolts		LB1
3/8" x 12" lag bolts		LB2
3/8" x 10" lag bolts		LB3
3/8" x 9 1/2" bolts		BL1
3/8" x 16 1/2" bolts		BL2
3/8" x 24" bolts		BL3
3/8" x 6" Bolts		BL4
3/8" x 6 1/2" bolts		BL5
3/8" x 9 1/4" bolts		BL6
3/8" x 8 1/2" bolts		BL7
5/16" x 3" bolts		BL8
2 1/2" deck screws		DS1
5" deck screws		DS2
3" deck Screws		DS3
2" deck screws		DS4

Note: Dimensions of your hardware will vary depending on size.

DESCRIPTION	No.
Perimeter and Central Hammer Beam Roof Trusses	1
Lateral Posts	2
Central Posts	3
Single Supports	4
In-Between Blockings	5
Main Knee Braces	6
Secondary Knee Braces	7
Ridge Beams	8
Rafters	9
Roof Boards	10
Roof Trims	11
Boots	12
Curtain bases	13
High wind anchor bases	14
Curtain roads	15
Rafter Bases	16
L-plaques	17

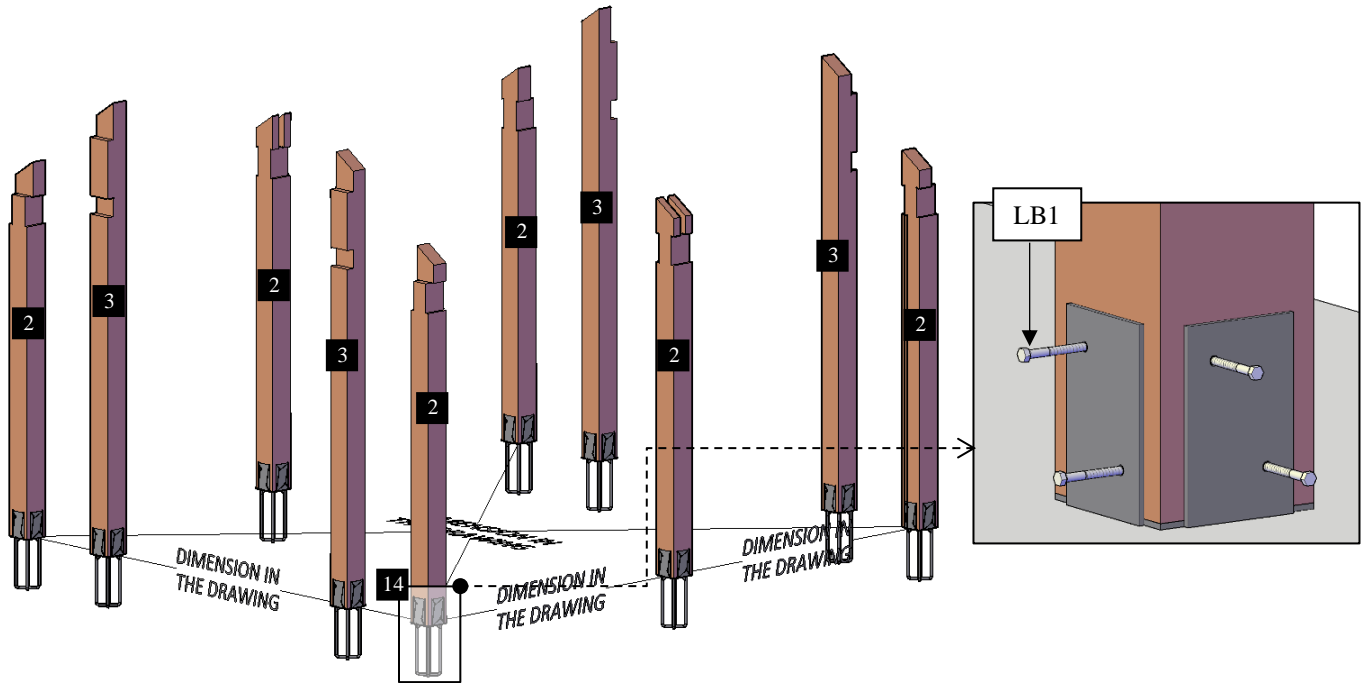
Note: Part numbers in the Drawing are for reference only. These do not match to the numbers marked on the parts sent.



NOTE: In order to know where the post needs to be placed, check the numbers on them. If the post is not marked, then place the single Supports on the ground to locate the markings for each post position and clearly set your bearings. (“Don’t attach yet, only place them on the ground to begin with”).

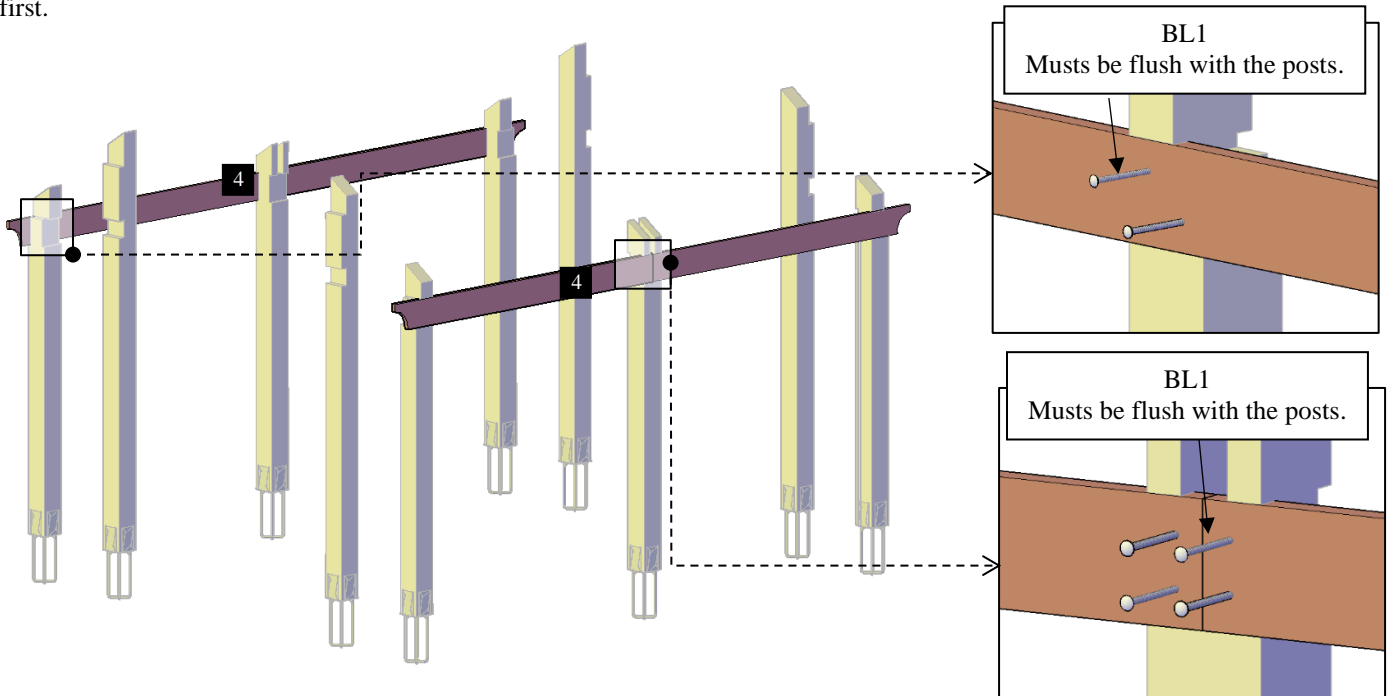
Note: Before install the anchor bases make sure that the ground is level using a carpenter's level or hydro-level (water level).

Step 1: Install the High Wind Anchor Bases (14). Please see the “How to anchor your pergola document” for all details. Set your post (2,3) in the saddle of the anchor bases. Drill a ϕ 1/4" hole in the post prior to anchoring to facilitate the ratcheting of the hardware. After that, use 3/8" x 3 1/2" Lag Bolts (LB1) to attach each post to its respective anchor base.



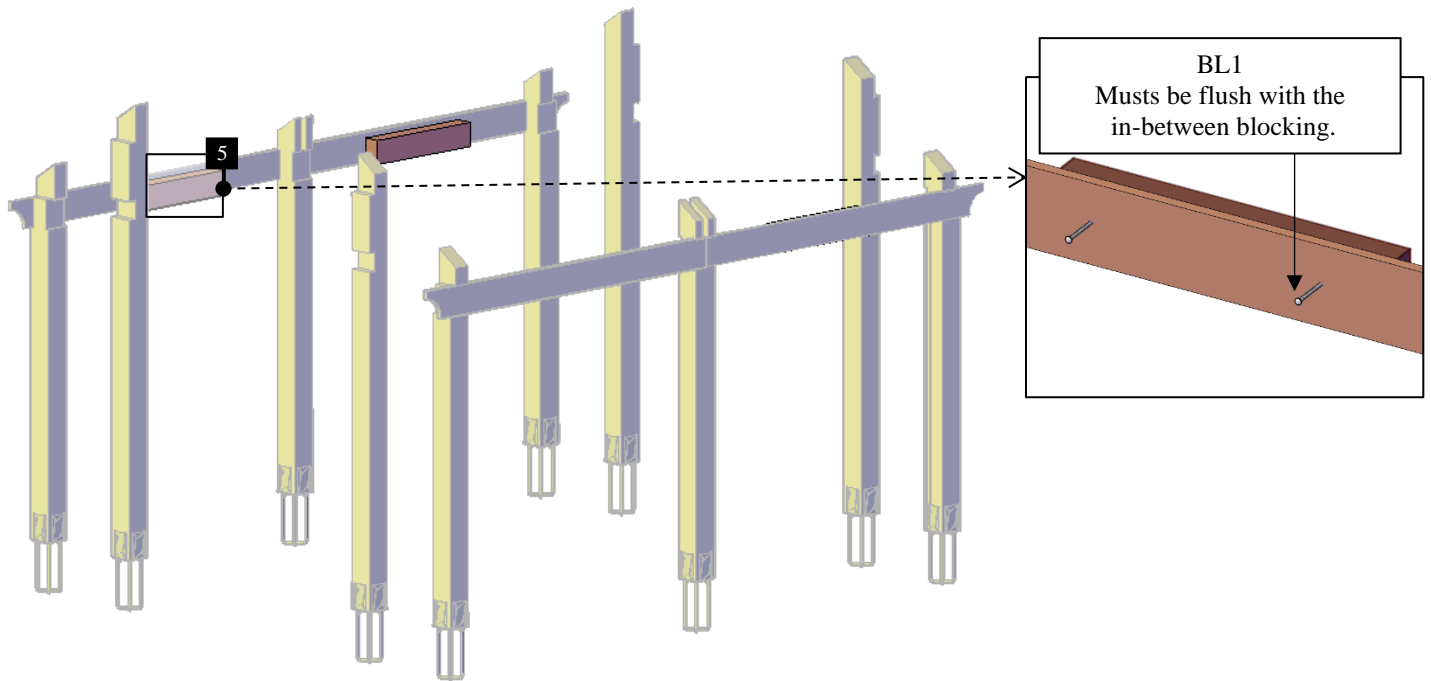
Step 2: Attach the external single supports (4) to the posts with 3/8" x 9 1/2" bolts (BL1). Check the marked on each support and place as drawings shown.

Note: Don’t completely tighten yet the bolts – you will need the install the in between blockings and the interior single supports first.



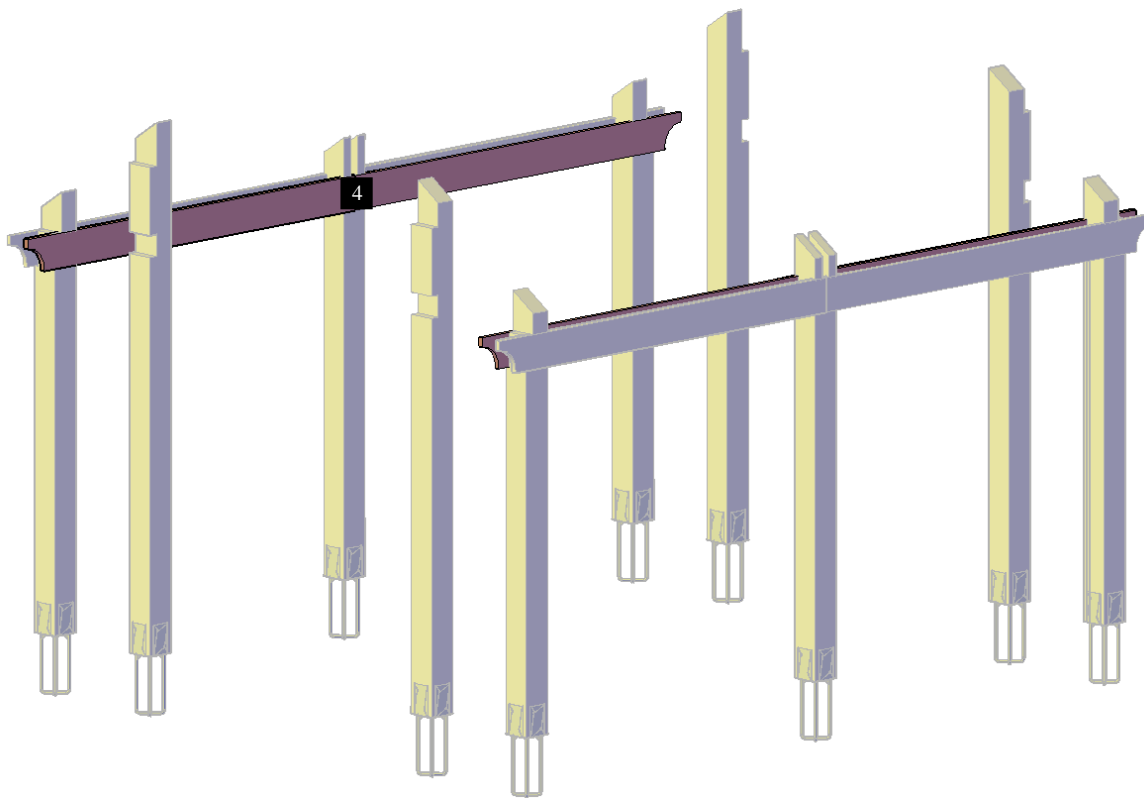
Step 3: Use 3/8" x 9 1/2" bolts (BL1) to attach the in-between blockings (5) to the single supports. Check the marked on each in-between blocking and place as drawings shown.

Note: Don't completely tighten yet the bolts – you will need the install the interior single supports first.

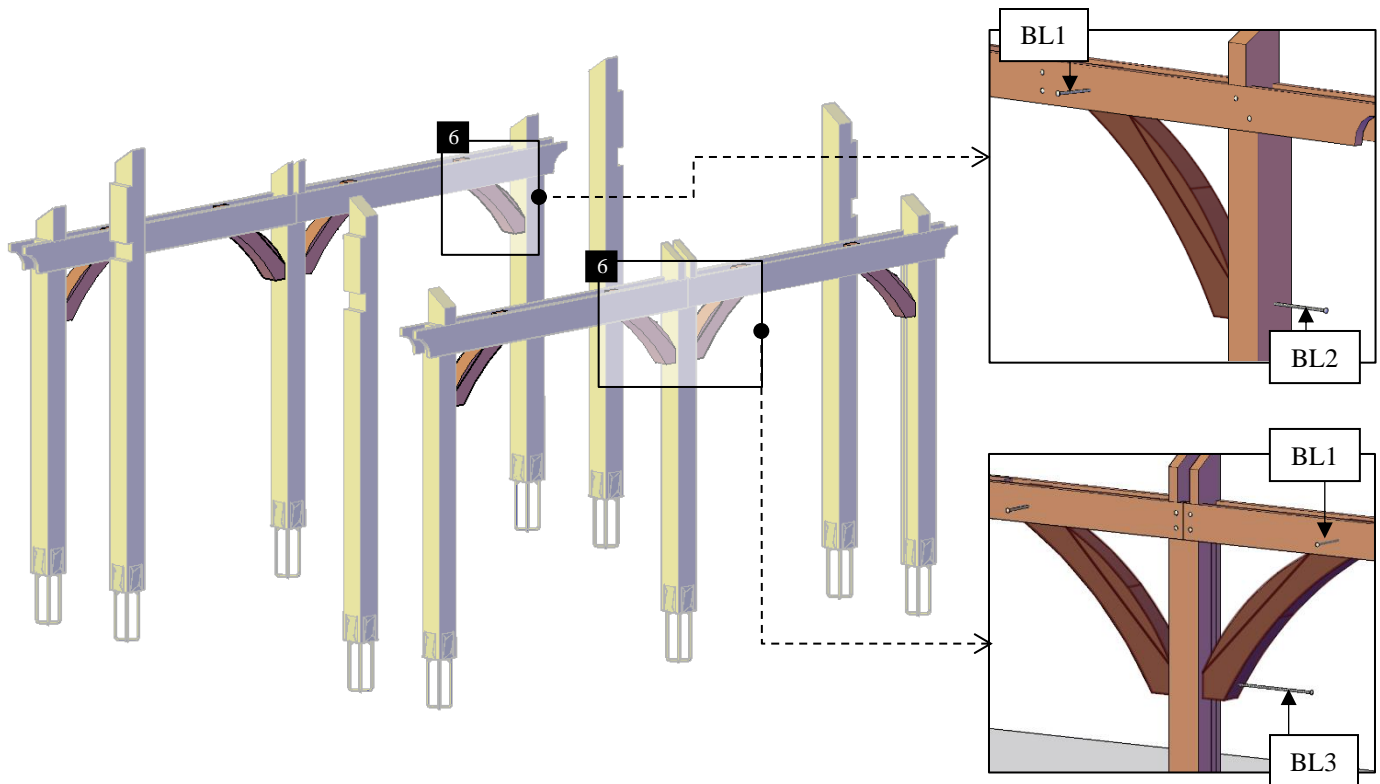


Step 4: Put up the interior single supports (4) into the post notches, as shown, and attach to the posts and to the in-between blocking with the previously installed bolts (tighten fully). Check the marked on each support and place as drawings shown.

Note: Put exterior clear silicone in the support joins.



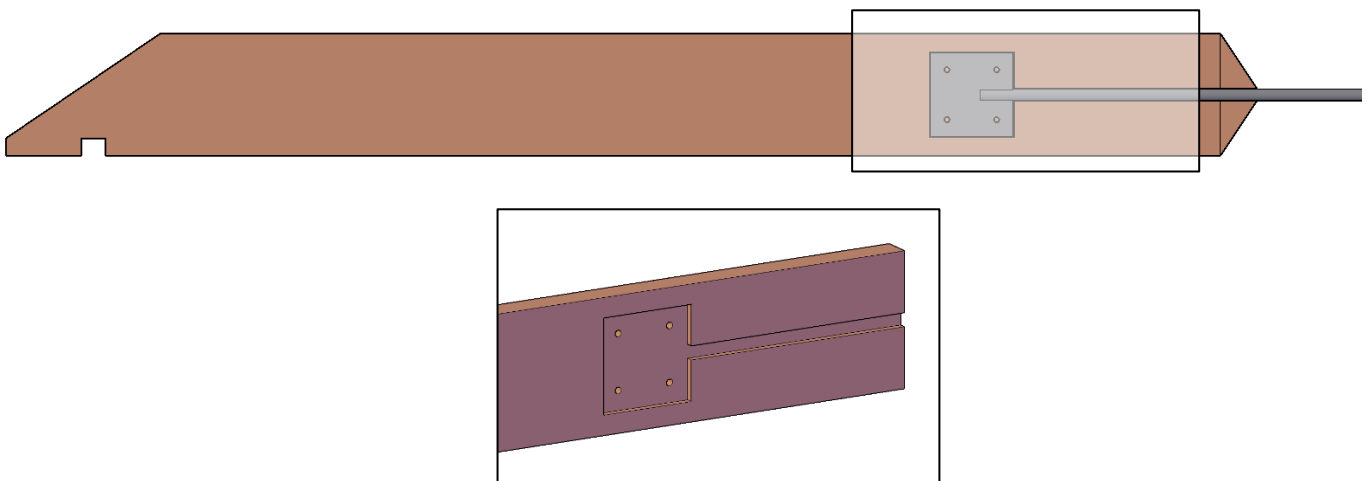
Step 5: Attach the main knee braces (6) to the supports with 3/8" x 9 1/2" bolts (BL1). Finally, use 3/8" x 16 1/2" bolts (BL2) to attach to the perimeter posts and 3/8" x 24" bolts (BL3) to attach to the central posts. Check the marked on each knee braces and place as drawings shown.



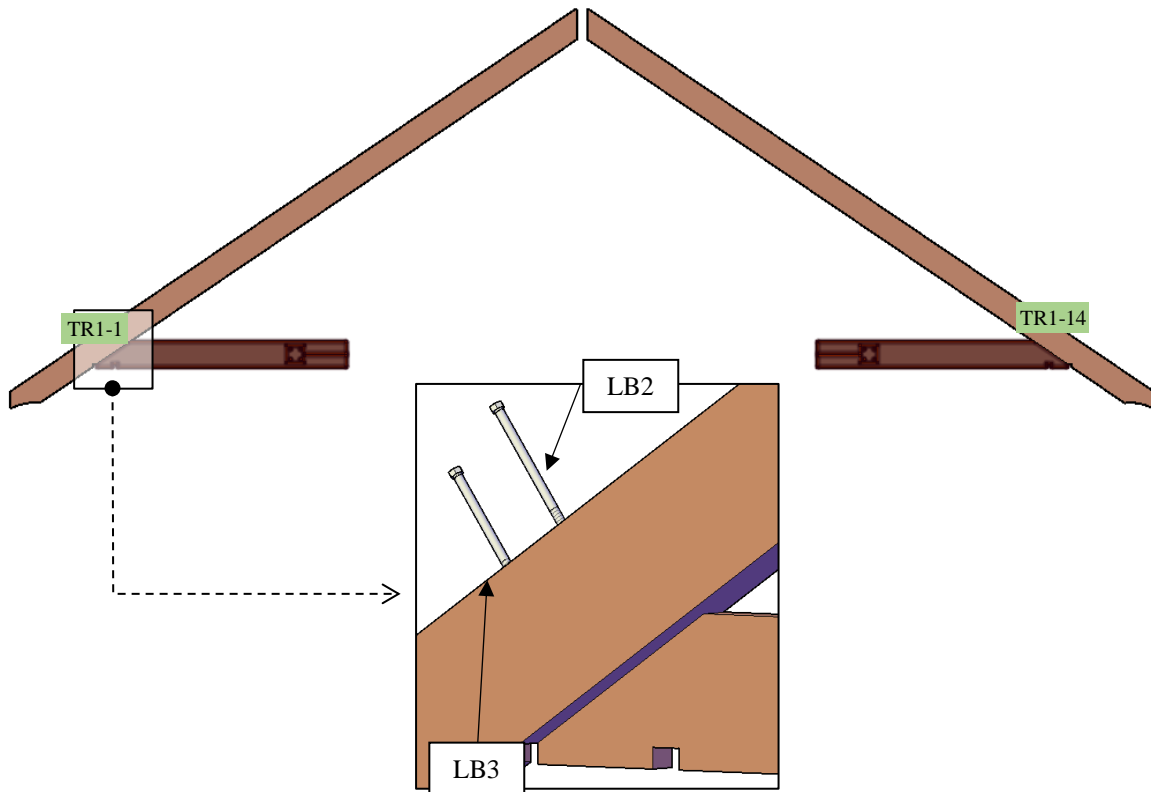
Assemble the **Perimeter Hammer-Beam Roof Trusses**

Note: If the roof trusses are assembling on the ground, will be necessary to use a forklift or mobile crane to lift the roof trusses and put them above the supports. If they are not assembling on the ground, the roof trusses must be assembling piece by piece using a mobile scaffold.

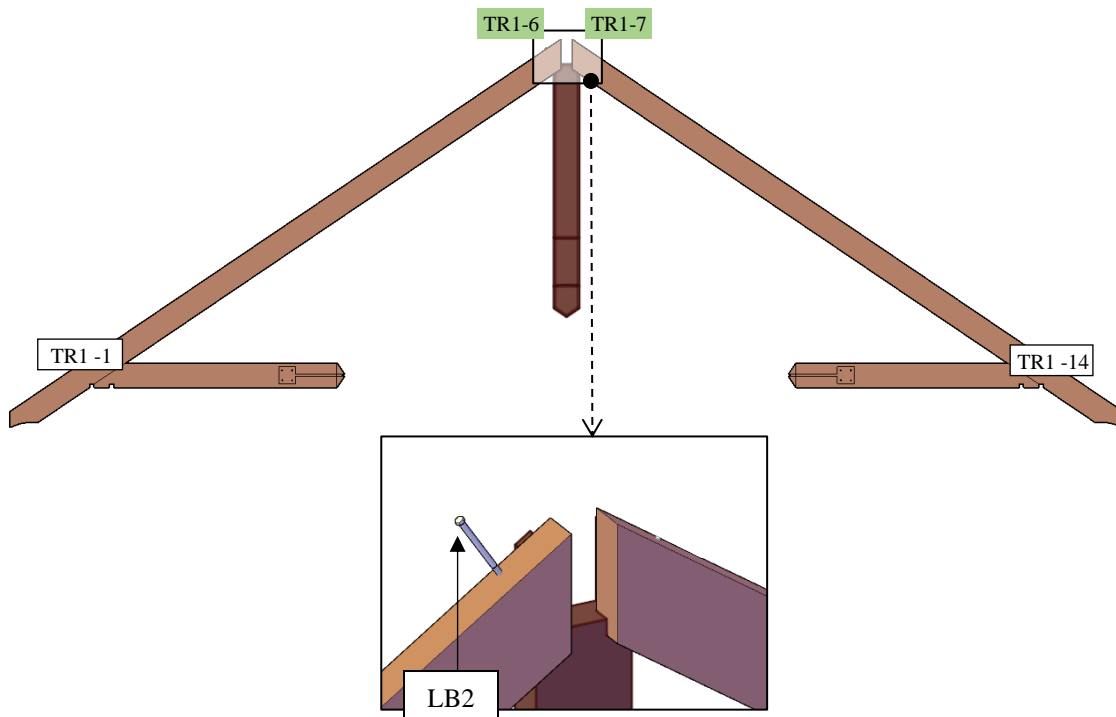
Step 6: Remove the deck screws to separate the hammer beams.



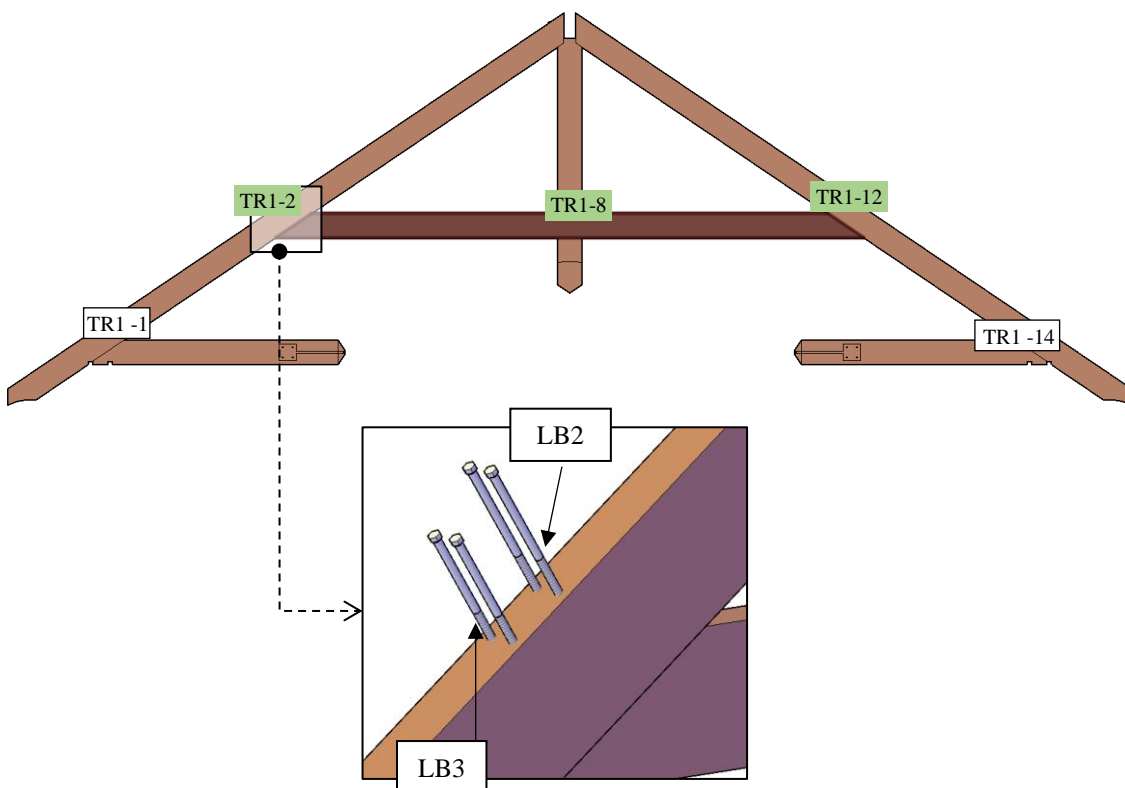
Step 7: Use 3/8" x 12" lag bolts (LB2) and 3/8" x 10" lag bolts (LB3) to attach the rafters (1.1) to one part of the hammer-beams (1.2). Match the marked numbers in the corner of the hammer beams with the numbers in the rafters. *The marked numbers shown below corresponding at the roof trusses (TR1& TR4)*



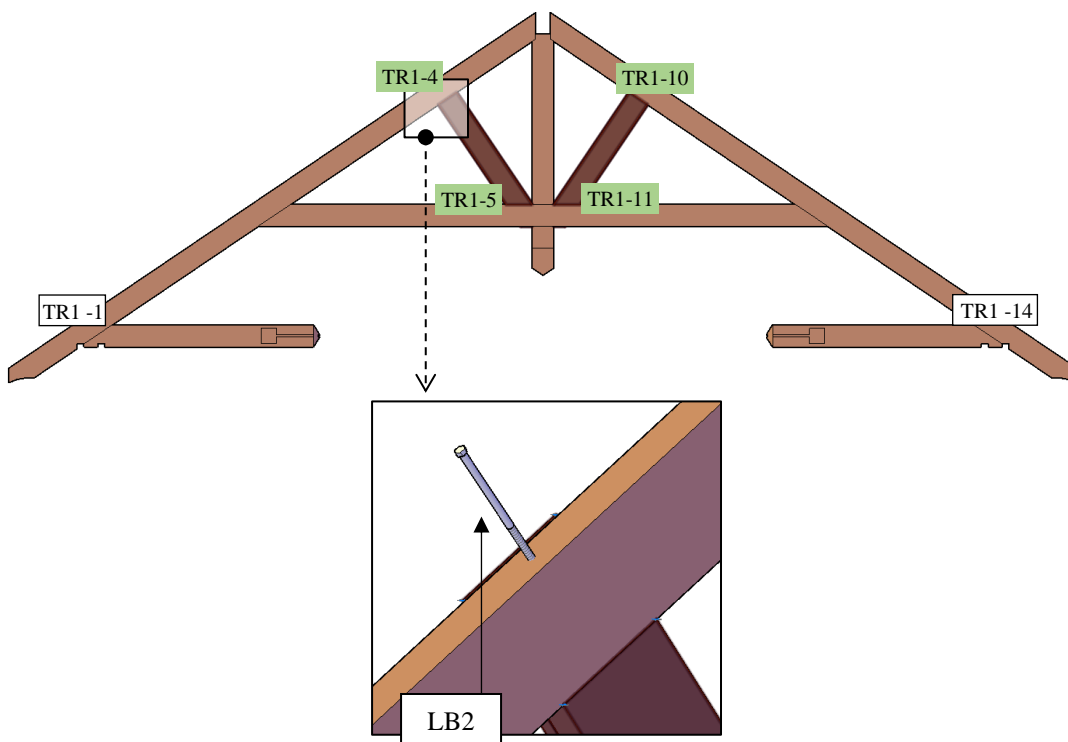
Step 8: Use 3/8" x 12" lag bolts (LB2) to attach the king post (1.3) to the rafters. Match the marked numbers in the top of the king post with the numbers in the rafters. *The marked numbers shown below corresponding at the roof trusses.*



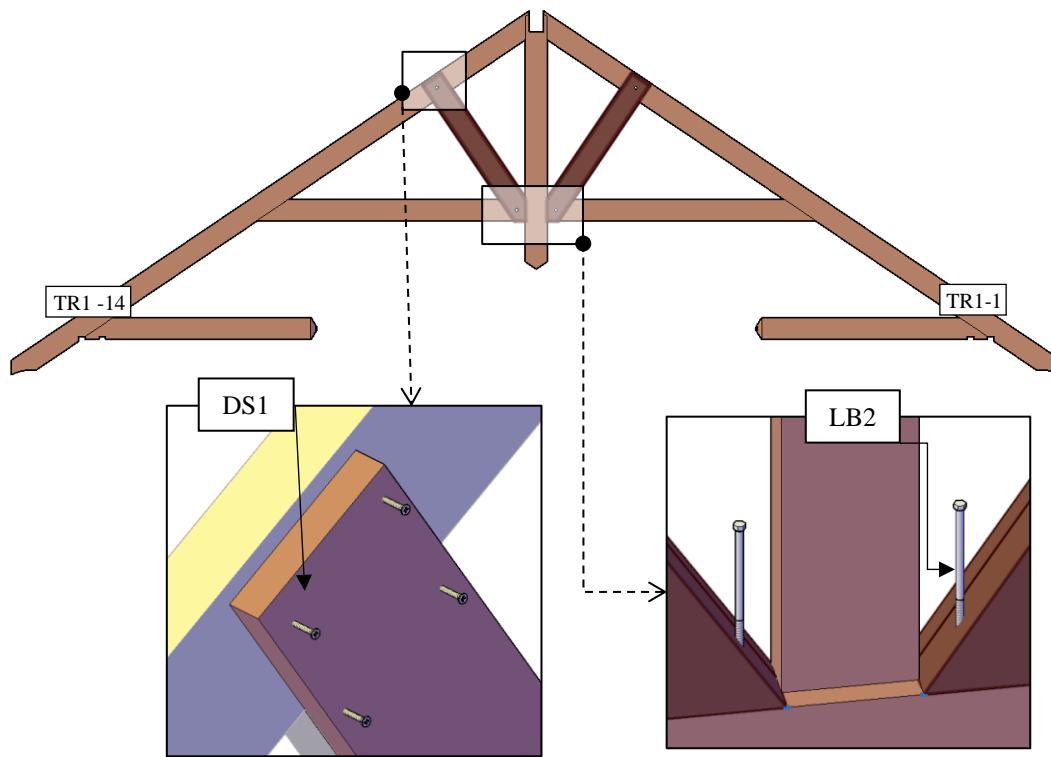
Step 9: Attach the collar tie (1.4) to the rafters with 3/8" x 12" lag bolts (LB2) and 3/8" x 10" lag bolts (LB3). Match the marked numbers in the corners of the collar tie with the numbers in the rafters. *The marked numbers shown below corresponding at the roof trusses.*



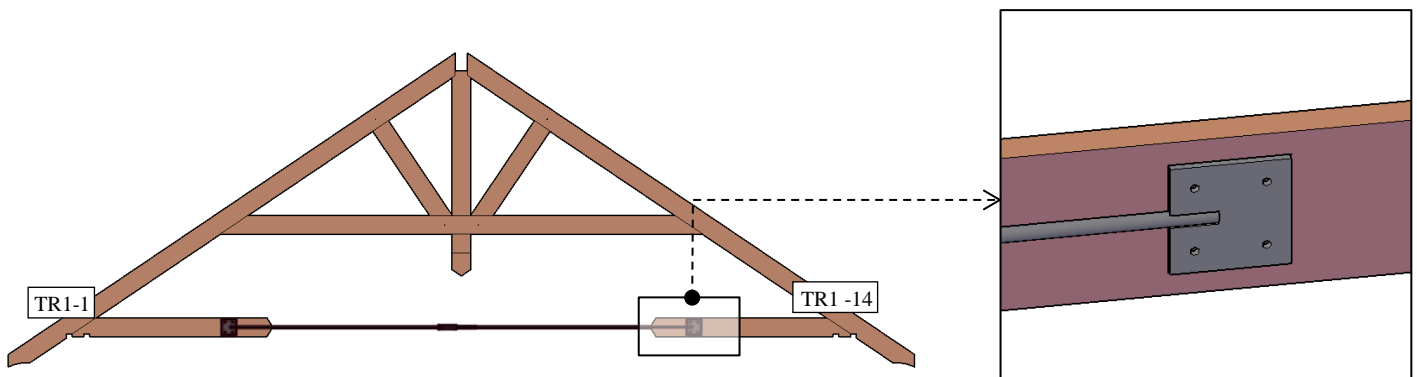
Step 10: Use 3/8" x 12" lag bolts (LB2) to attach the struts (1.5) to the rafters. Match the marked numbers in notches of the struts with the numbers in the rafters. *The marked numbers shown below corresponding at the roof trusses.*



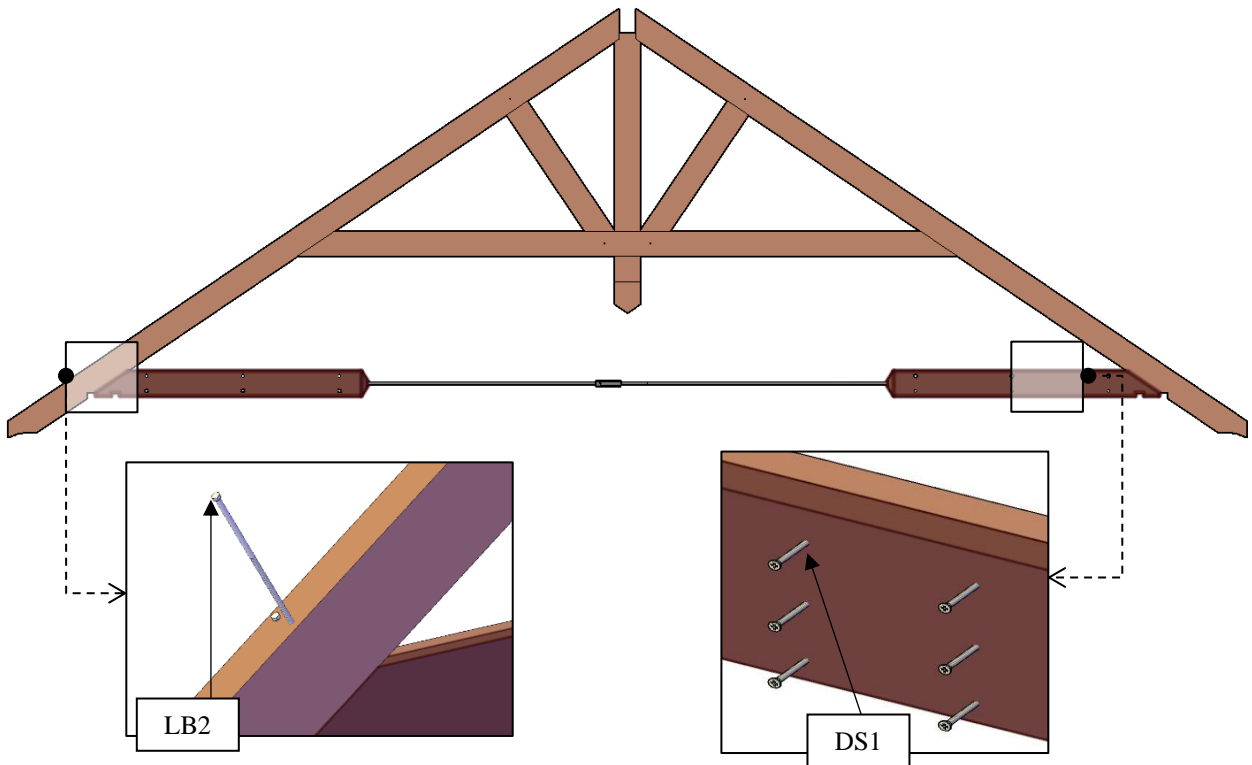
Step 11: Attach the struts (1.5) to the rafters and to the collar tie with 2 1/2" deck screws (DS1). After that, use 3/8" x 12" lag bolts (LB2) to attach to the collar tie together.



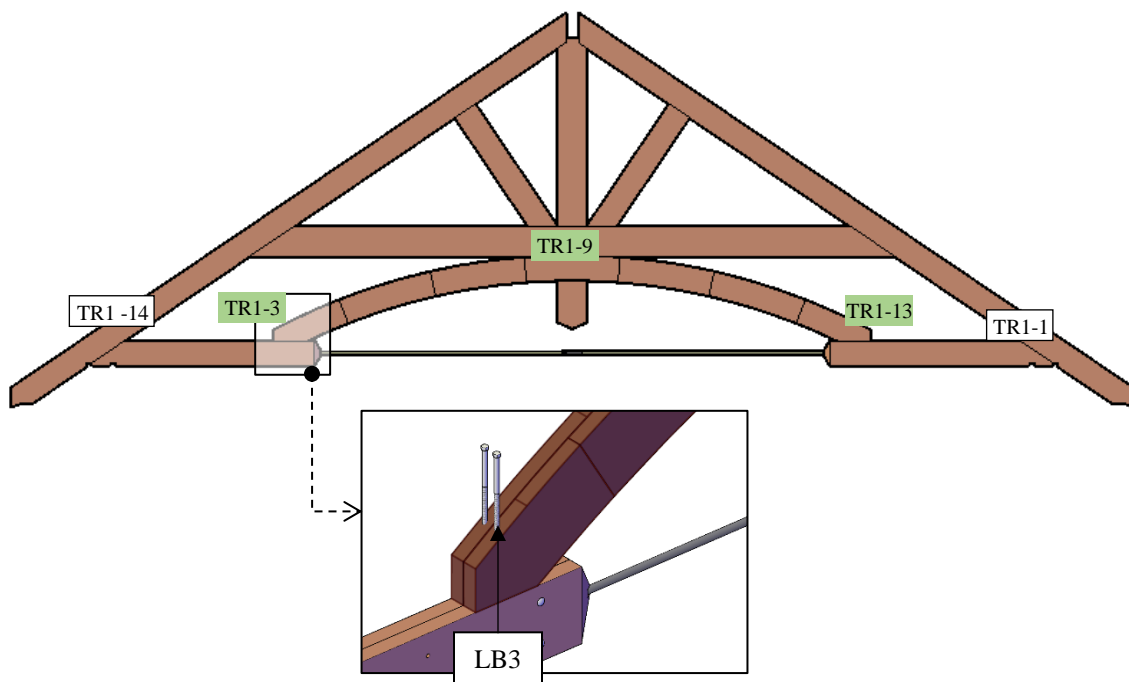
Step 12: Place the tensors (1.8) on the hammer-beam notches.



Step 13: Use 3/8" x 12" lag bolts (**LB2**) and 2 1/2" deck screws (**DS1**) to attach the hammer-beam covers (**1.2**) to the rafters. After that, join again the hammer beams with the deck screws removed in the step 7. Match the marked numbers in the corners of the hammer-beams with the numbers in the rafters. *The marked numbers shown below corresponding at the roof trusses.*

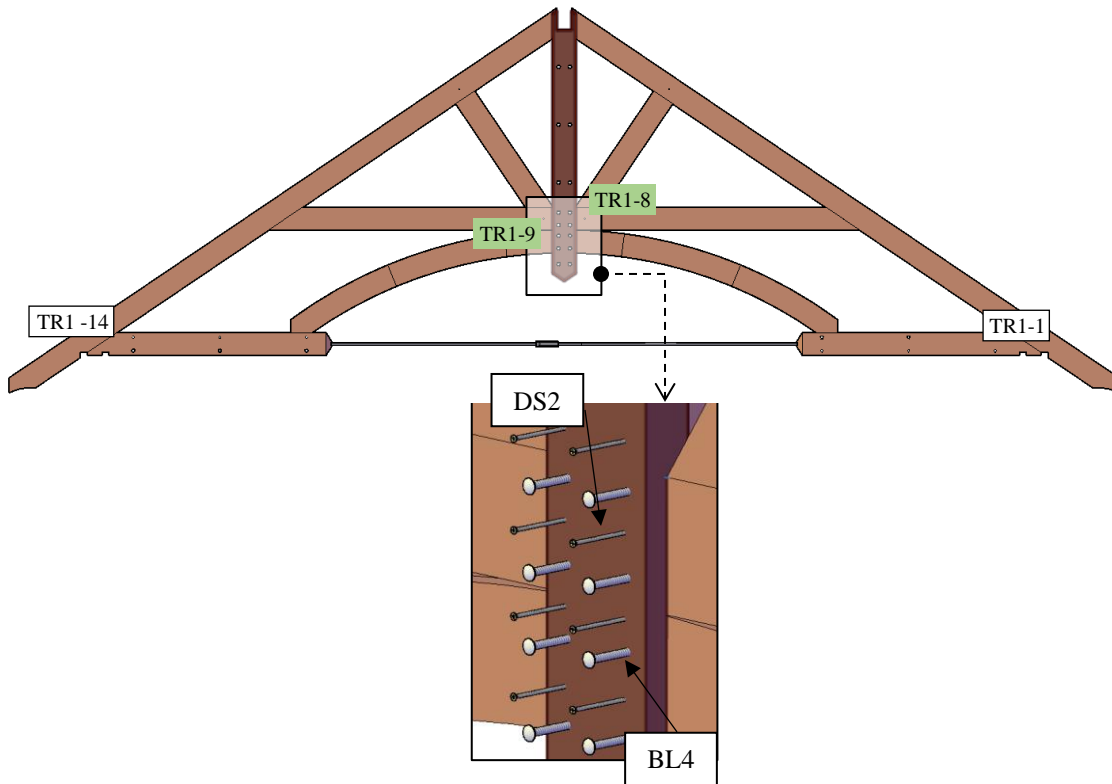


Step 14: Use 3/8" x 10" lag bolts (**LB3**) to attach the arched (**1.6**) to the hammer-beams. Match the marked numbers in the corners of the arc with the numbers in the hammer-beams. *The marked numbers shown below corresponding at the roof trusses.*



Step 15: Attach to the king post, to the collar tie and to the arc with 3/8" x 6" Bolts (BL4) and 5" deck screws (DS2).

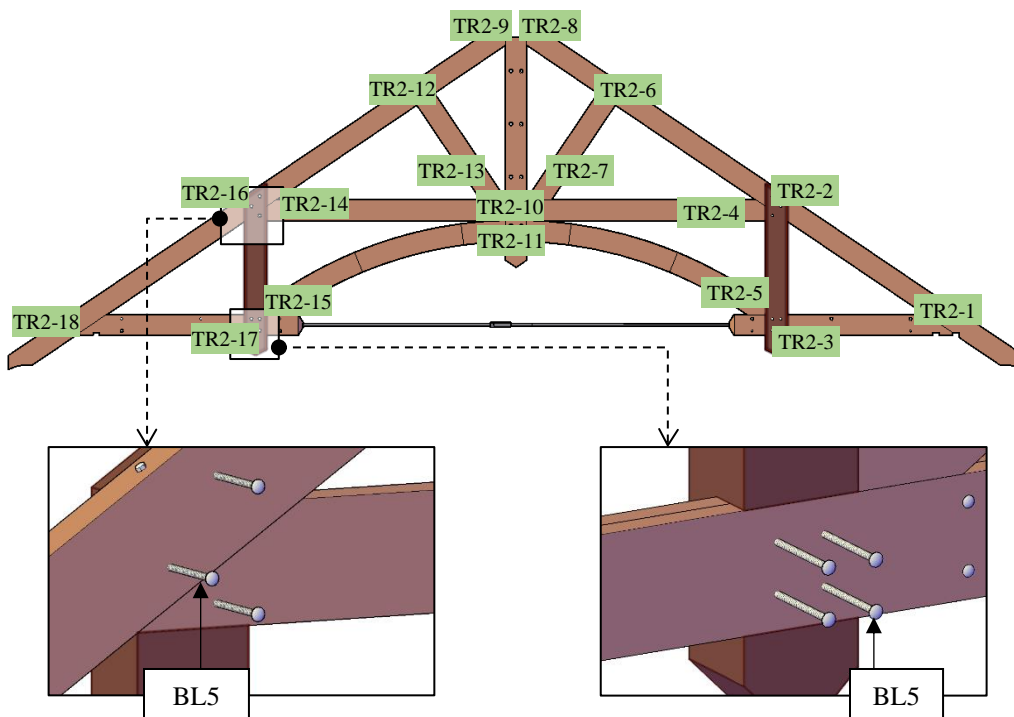
Note: use the holes are pre-drilled on each king post as a guide to drill each post and each roof truss with a wood drill bit.



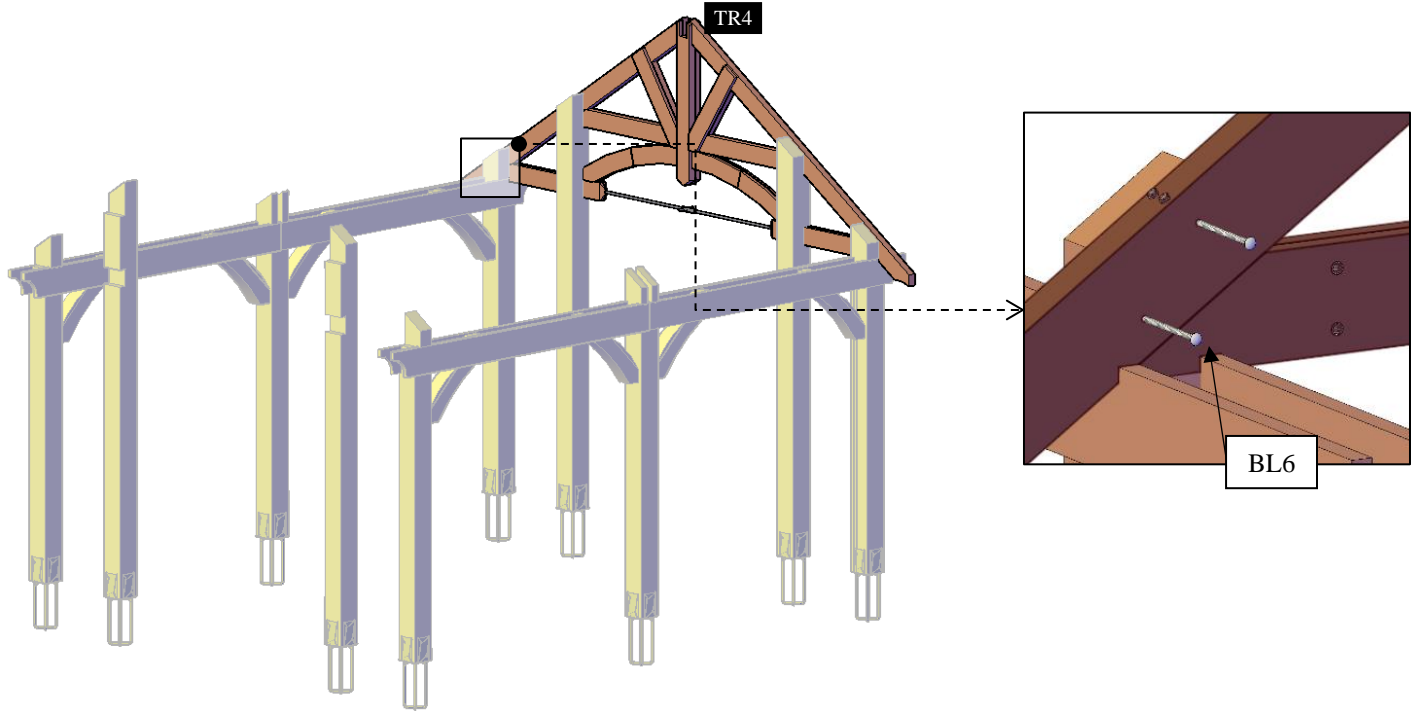
Assemble the **Central Hammer-Beam Roof Trusses**

Repeat the steps 6 to 15.

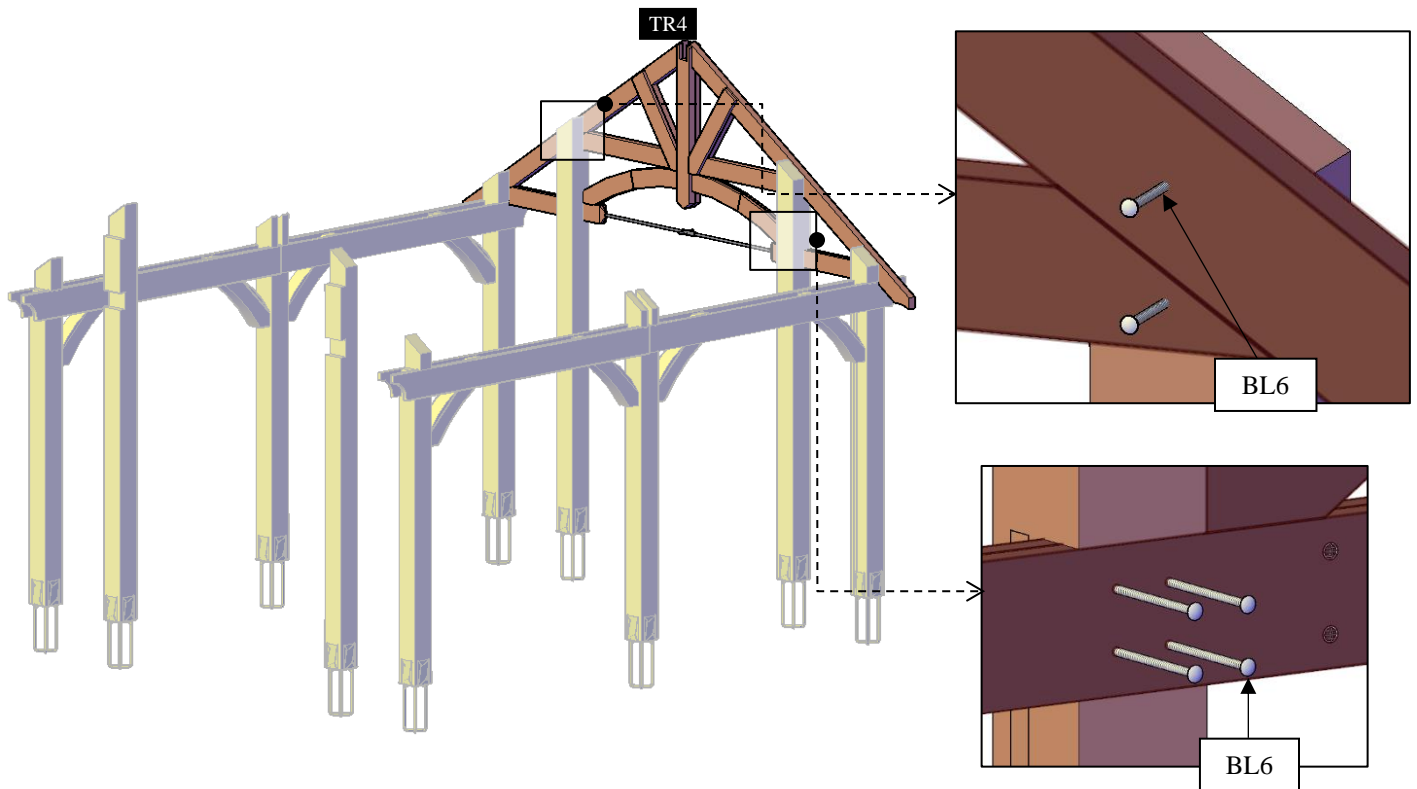
Step 16: Attach the hammer post (1.7) to the hammer-beam, to the rafters and to the collar tie with 3/8" x 6 1/2" bolts (BL5). Match the marked numbers in the king post notches with the numbers in the rafters and in the hammer beams. *The marked numbers shown below corresponding at the roof trusses (TR2).*



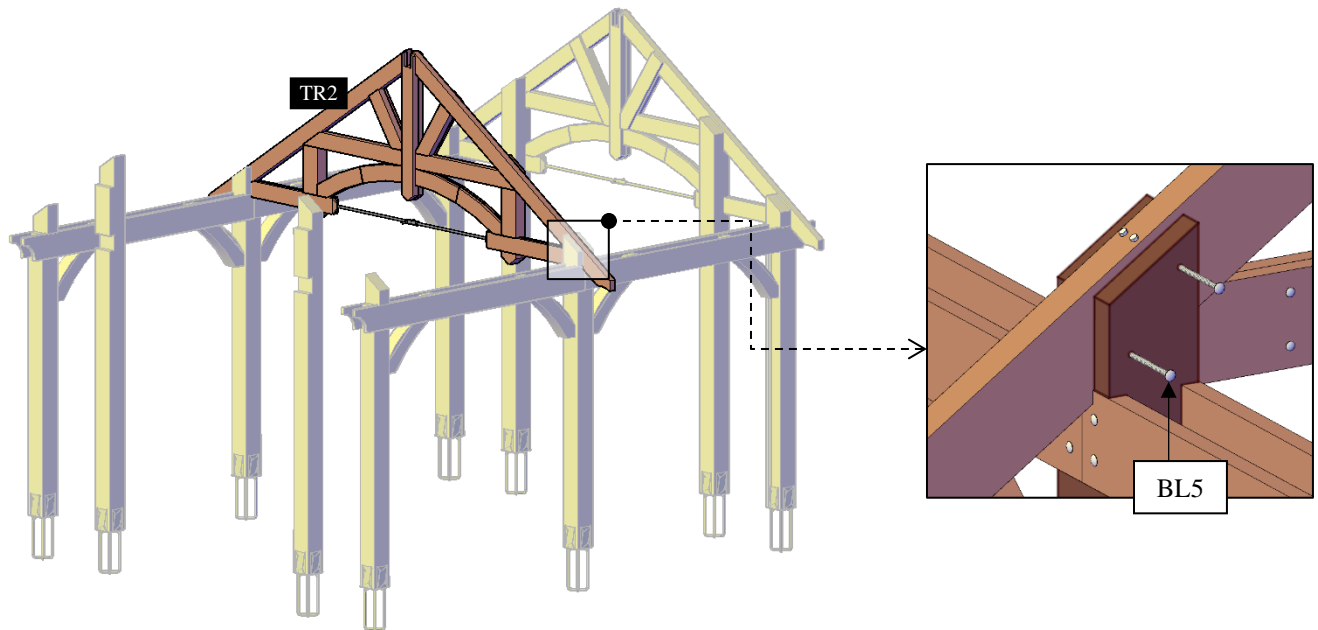
Step 17: Use 3/8" x 9 1/4" bolts (BL6) to attach the roof trusses (1) to the perimeter posts. Check the marked on each roof truss and place as drawings shown.



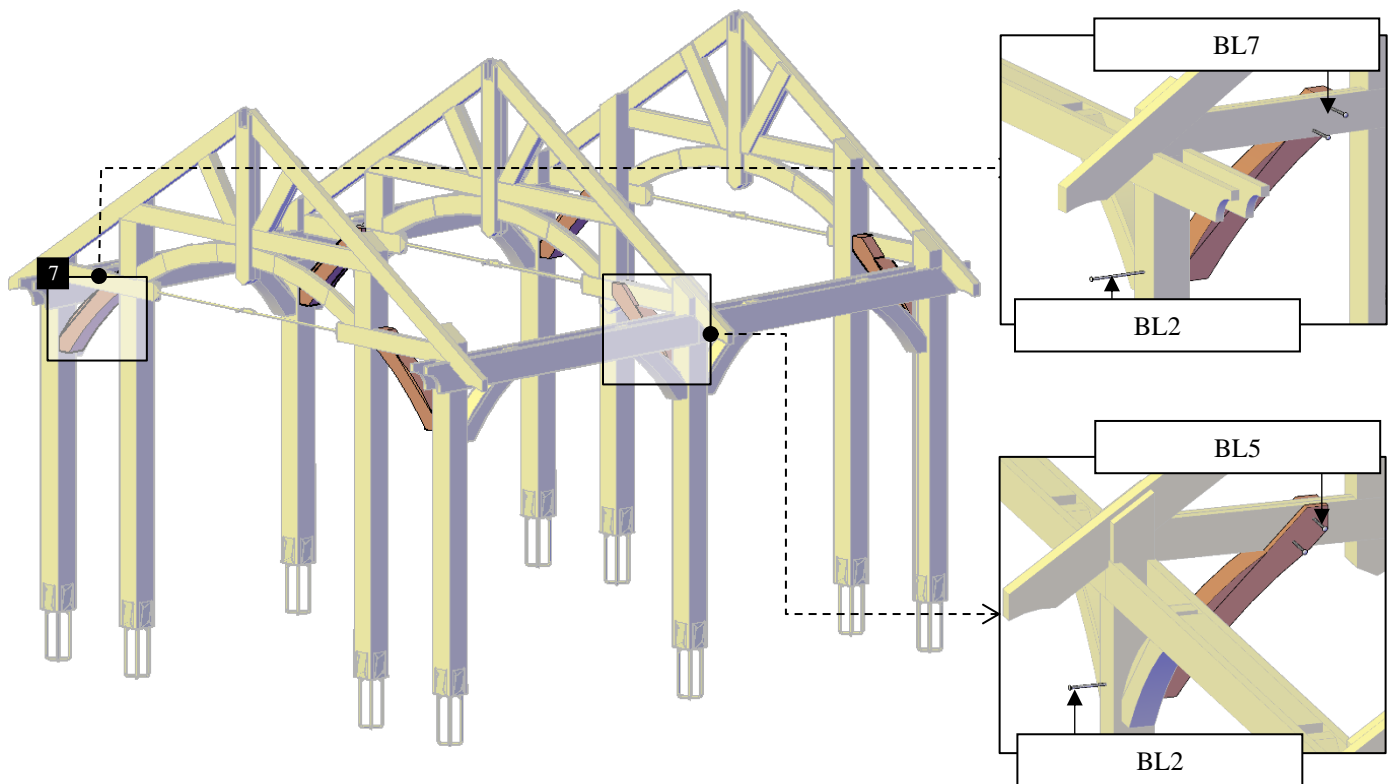
Step 18: Use 3/8" x 9 1/4" bolts (BL6) to attach the roof trusses (1) to the lateral posts. Check the marked on each roof truss and place as drawings shown.
Note: repeat this step.



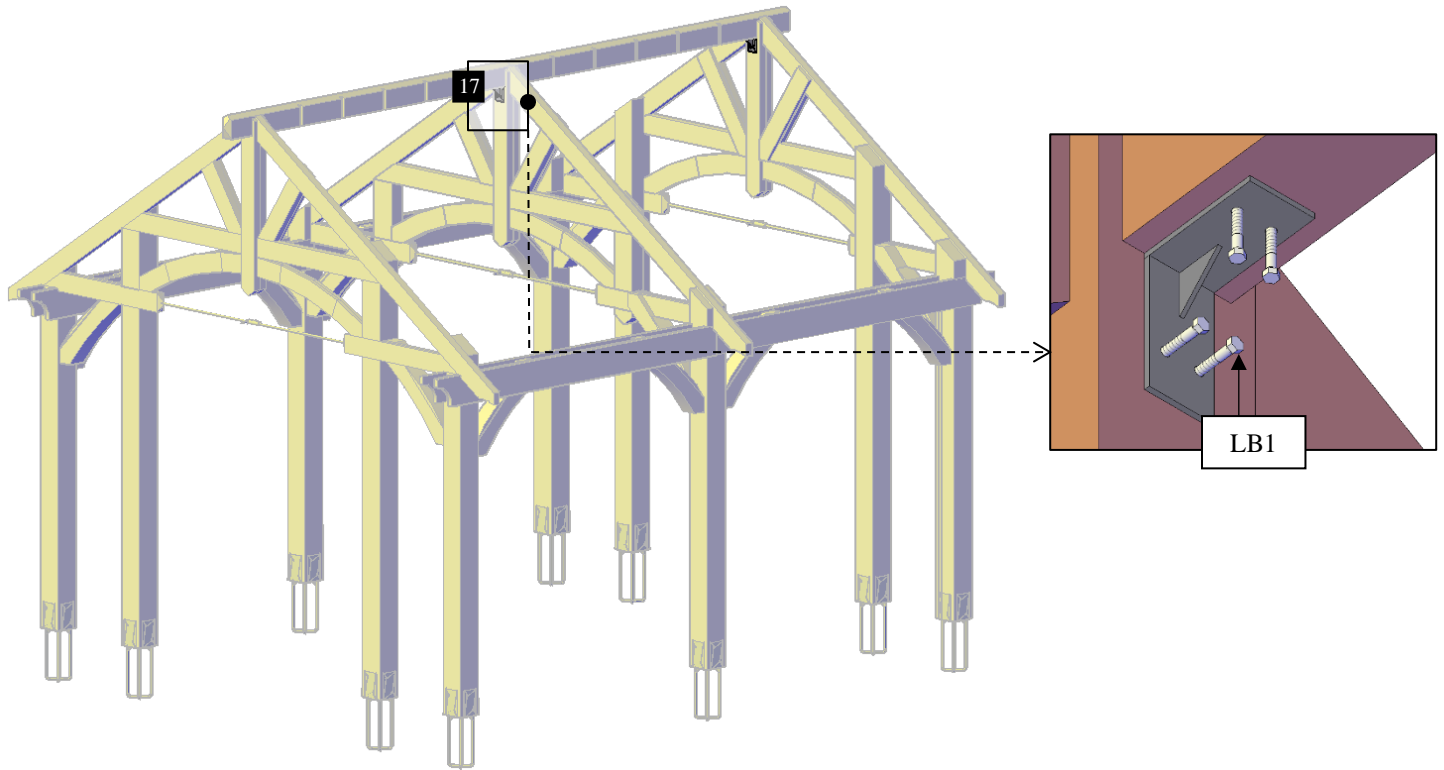
Step 19: Use 3/8" x 9 1/4" bolts (**BL6**) to attach the central roof trusses to the posts.
Note: place the roof trusses from back to front.



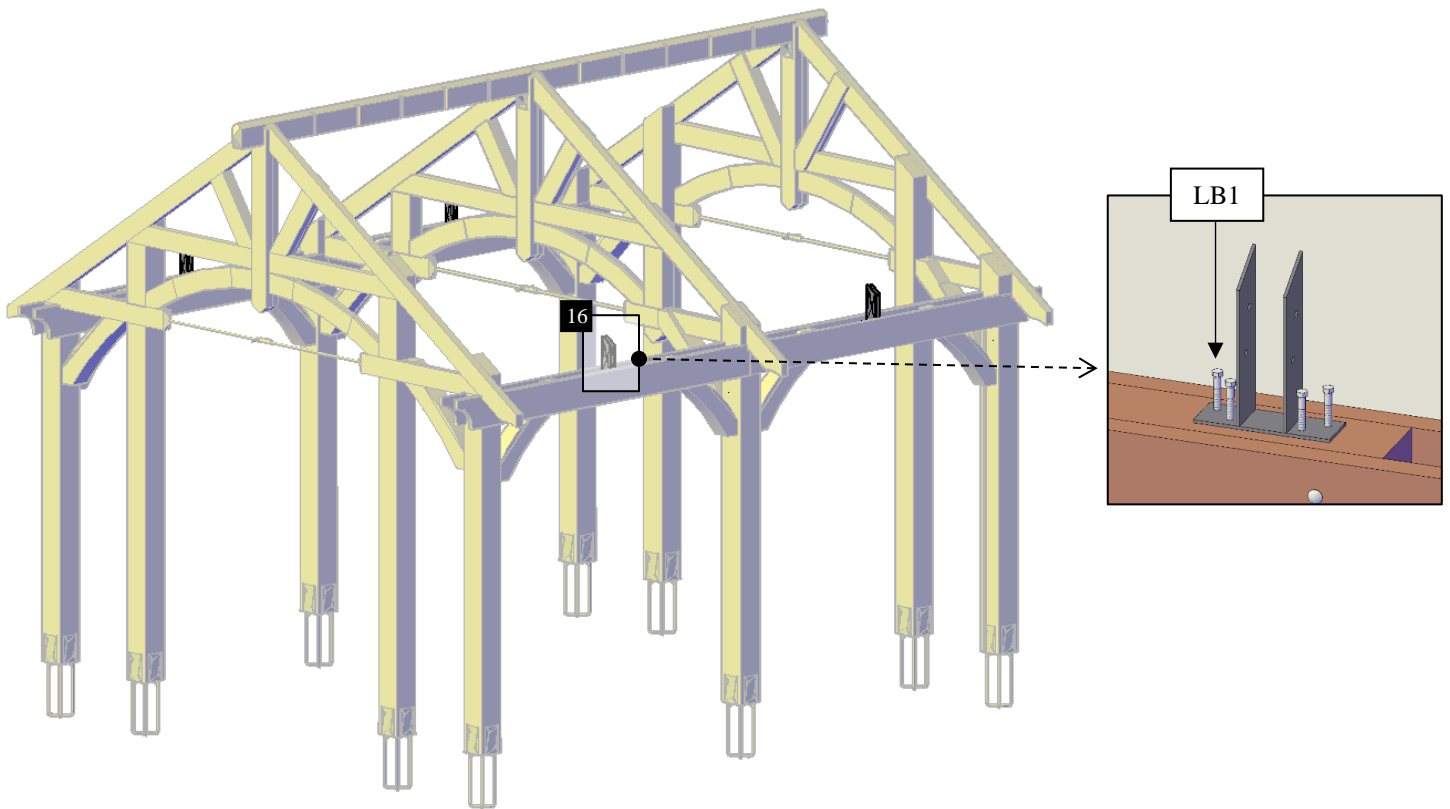
Step 20: Use 3/8" x 8 1/2" bolts (**BL7**) to attach the secondary knee braces (**7**) to the perimeter roof trusses and use 3/8" x 6 1/2" bolts (**BL5**) to the central roof trusses. After that, use 3/8" x 16 1/2" bolts (**BL2**) to attach the secondary knee braces to the corner posts and to the central posts.



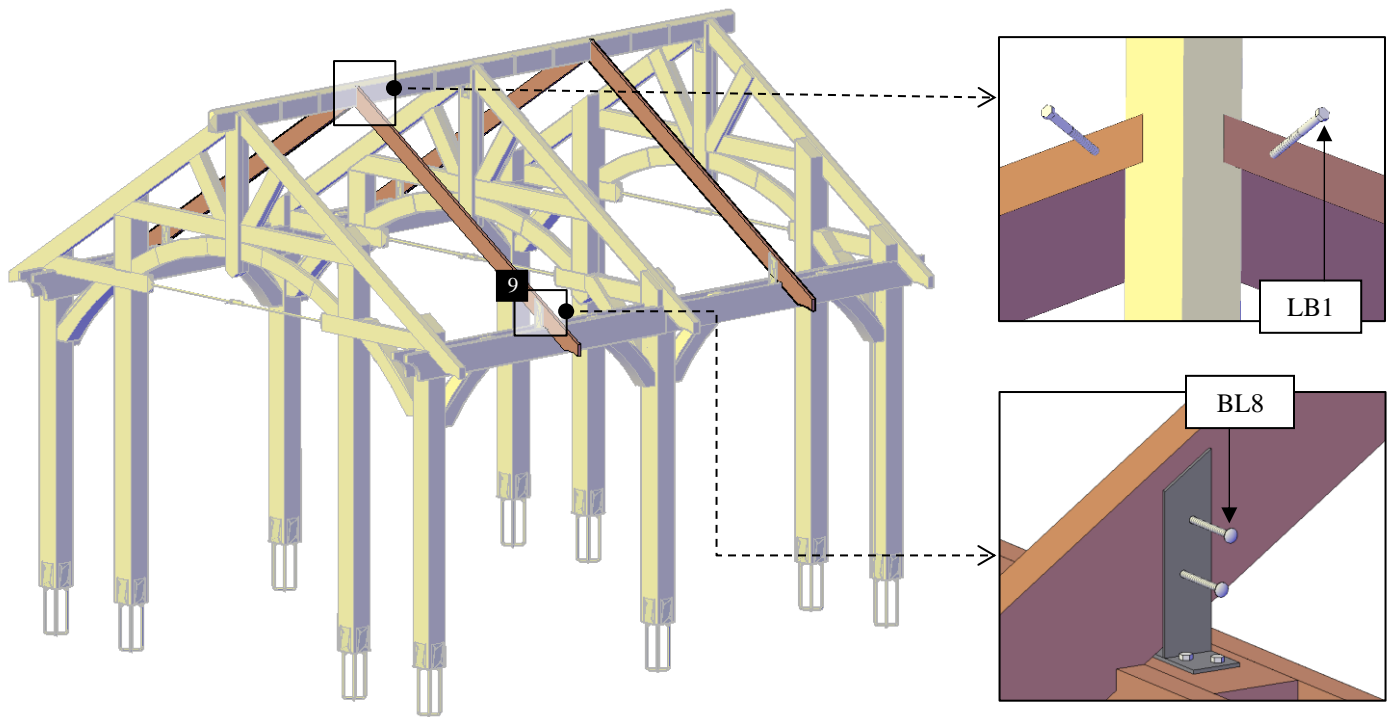
Step 21: Attach the L-plaques (17) to the ridge beams and to the roof trusses with 3/8" x 3 1/2" Lag Bolts (LB1).



Step 22: Use 3/8" x 3 1/2" Lag Bolts (LB1) to attach the Rafter Bases (16) to the in-between blockings.

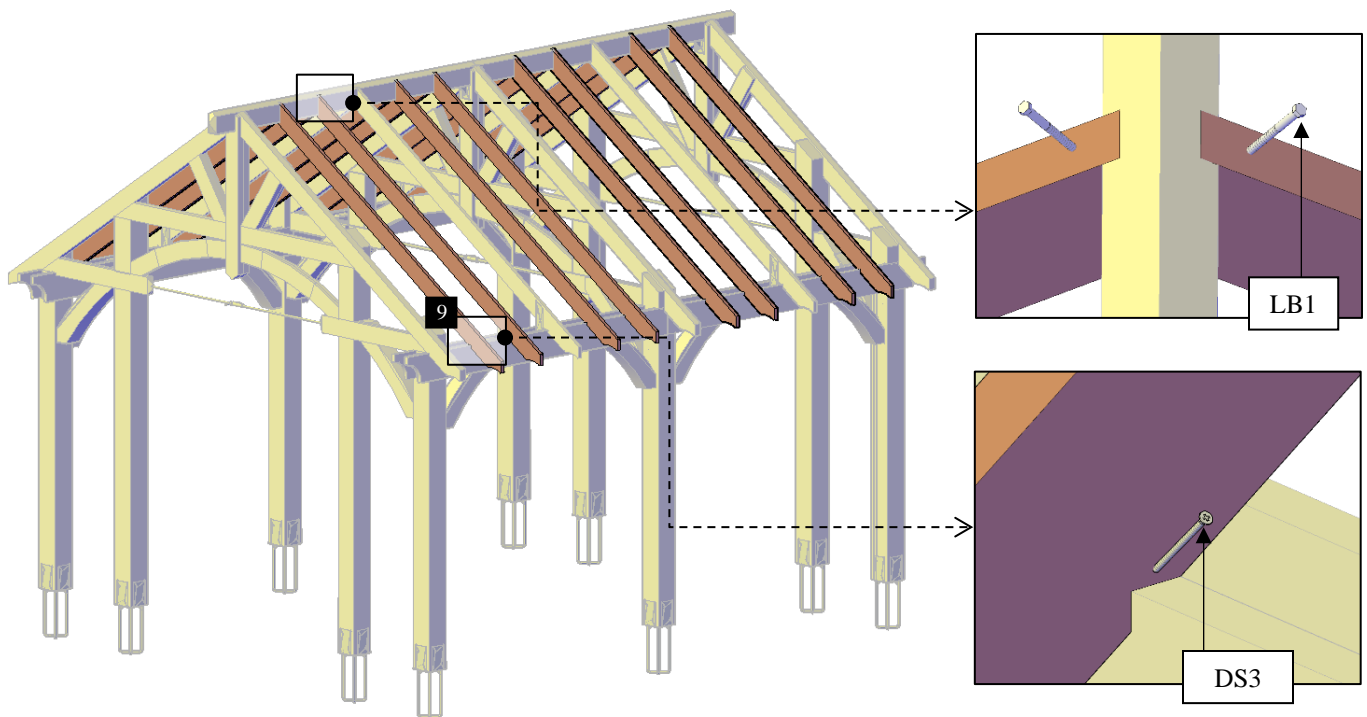


Step 23: Attach the rafters (9) to the metal plaques with 5/16" x 3" bolts (BL8) and to the ridge beam with 3/8" x 3 1/2" lag bolts (LB1). Check the marked on each rafter and place as drawings shown.

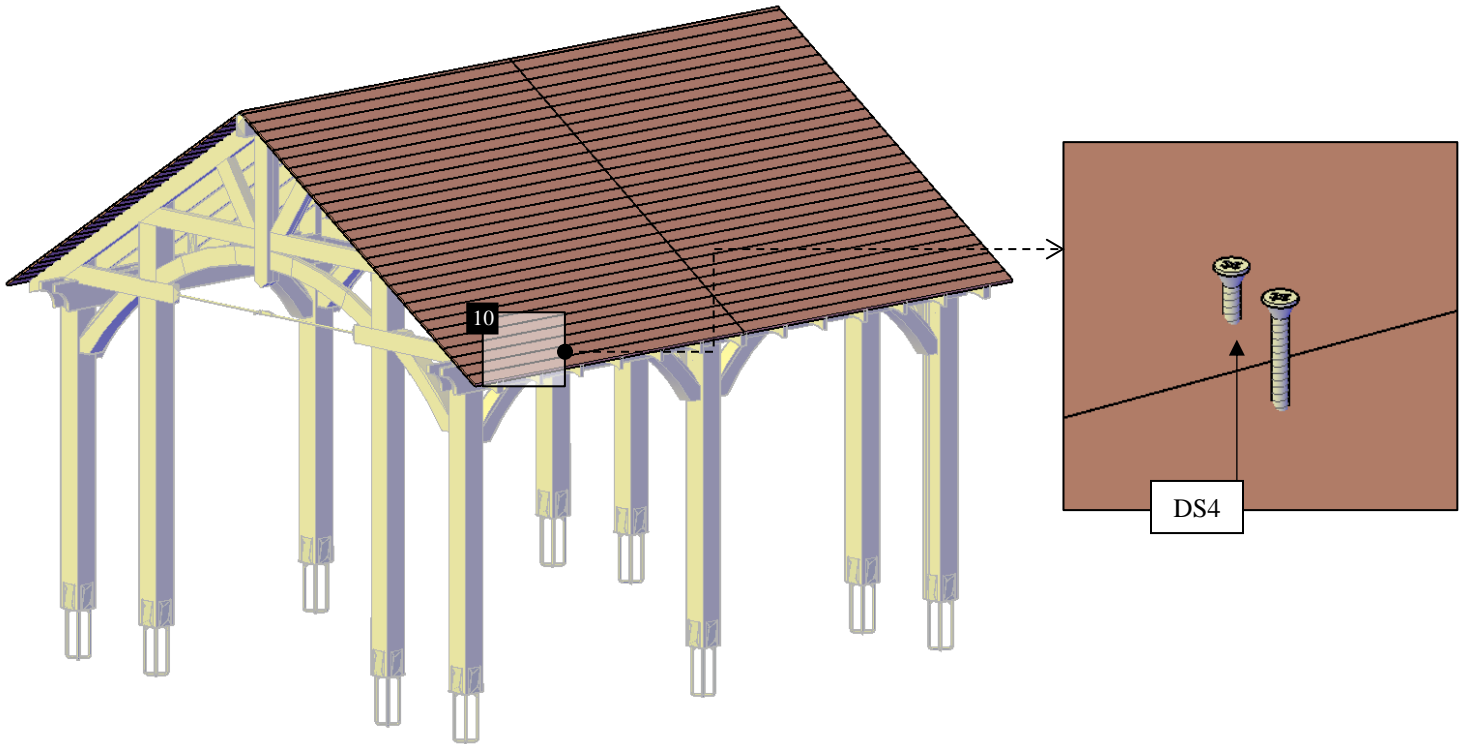


Note: The both side of the rafters must be placed at the same time (in pairs). Don't put all the rafters on one side or in the other side.

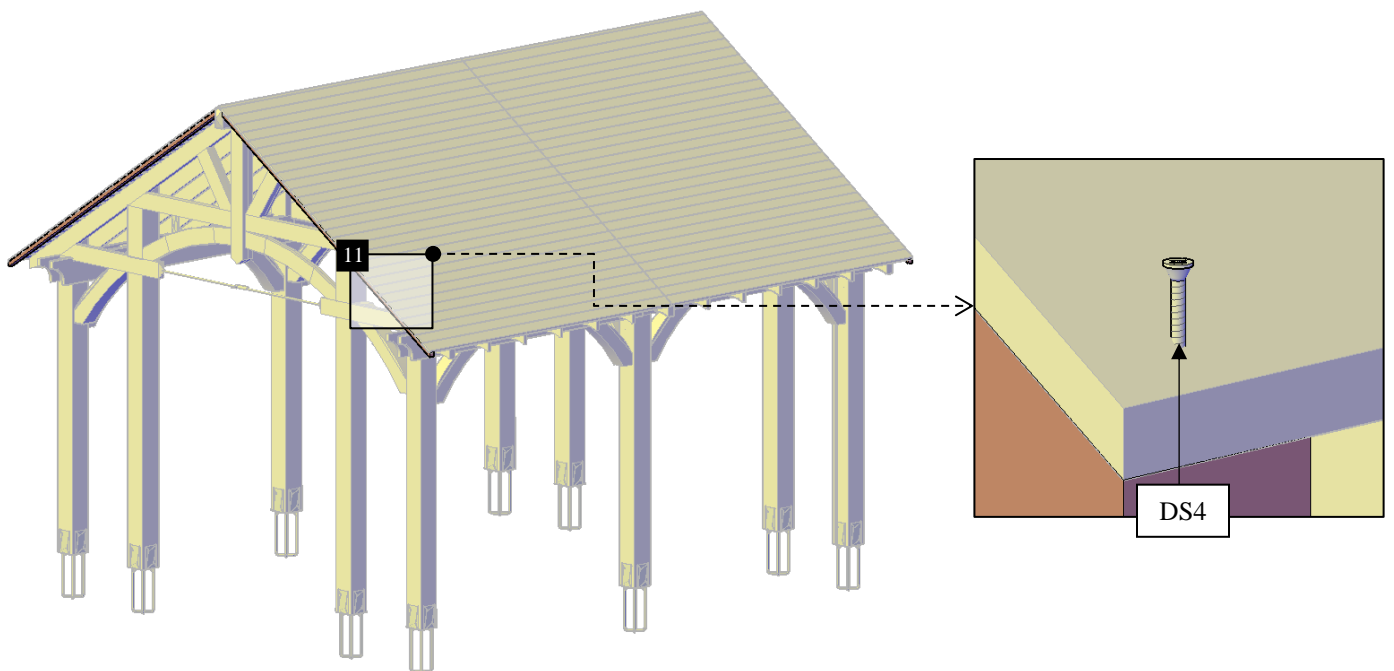
Step 24: Use 3" deck Screws (DS3) to attach the rest of the rafters (9) to the supports and to the ridge beams with 3/8" x 3 1/2" lag bolts (LB1). Check the marked on each rafter and place as drawings shown.



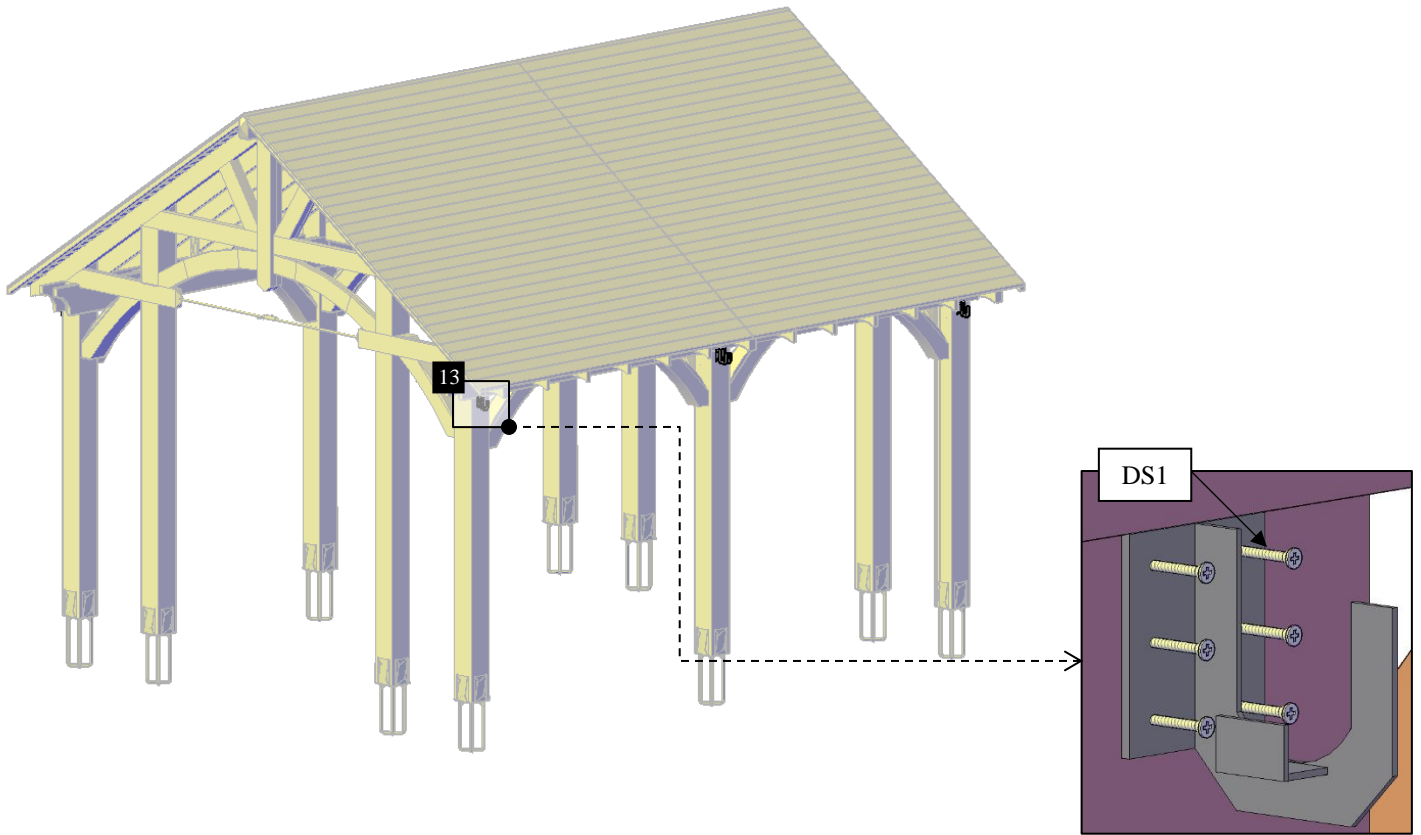
Step 25: Attach the roof boards (10) to the roof trusses and to the rafters with 2" deck screws (DS4). Check the marked on each Roof board and place as drawings shown.



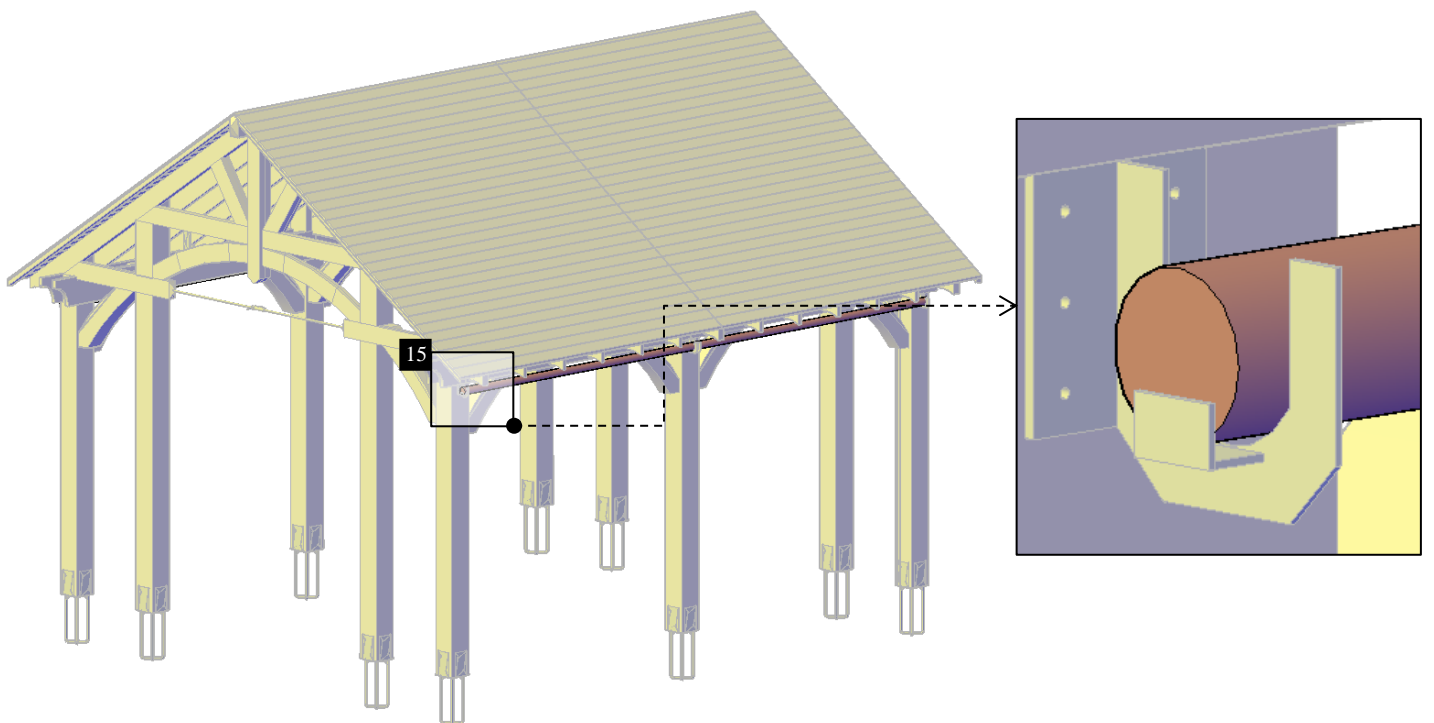
Step 26: Use 2" deck screws (DS4) to attach the roof trims (11) to the roof boards. Check the marked on each Roof trims and place as drawings shown.



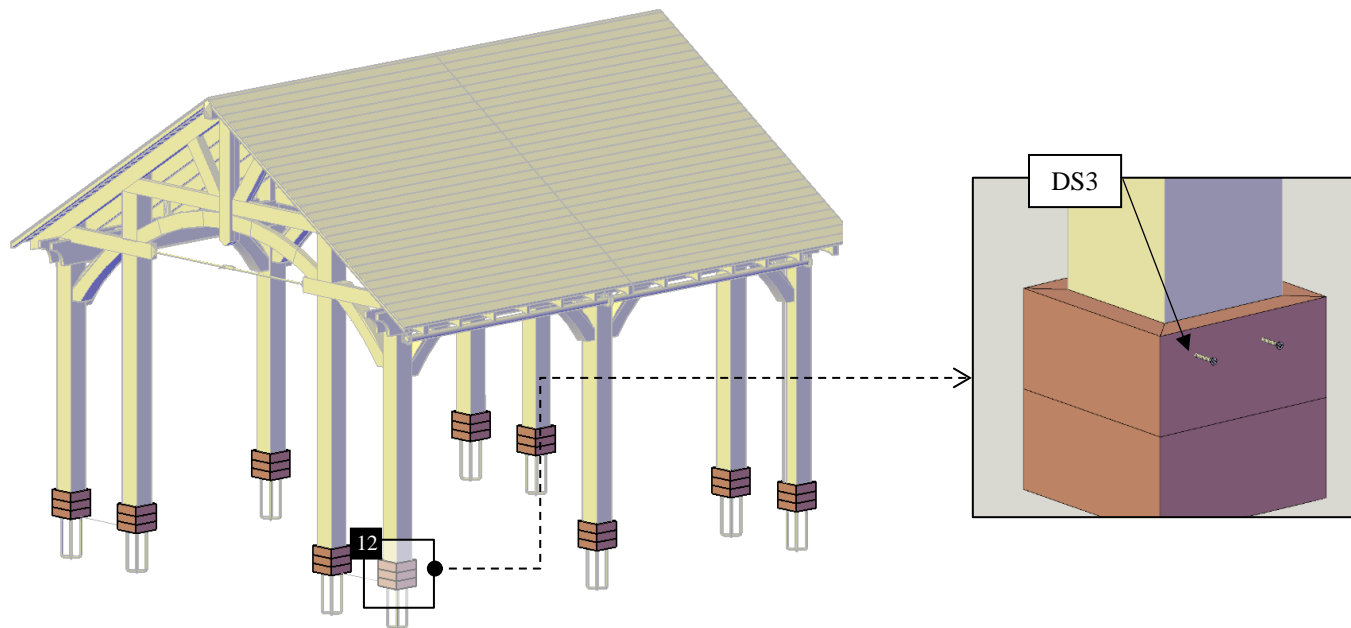
Step 27: Use 2 ½” deck screws (**DS1**) to attach the curtain bases (**13**) to the post.



Step 28: put the curtain roads (**15**) in place.



Step 29: Finally, attach the boots (12) to the posts with 3'' deck screws (DS3).



This completes the Pavilion Assembly. Hope you enjoy your set for many decades. If you ever have a problem or a question, don't hesitate to call us (866 332 2403) or email us. We are here to support you.