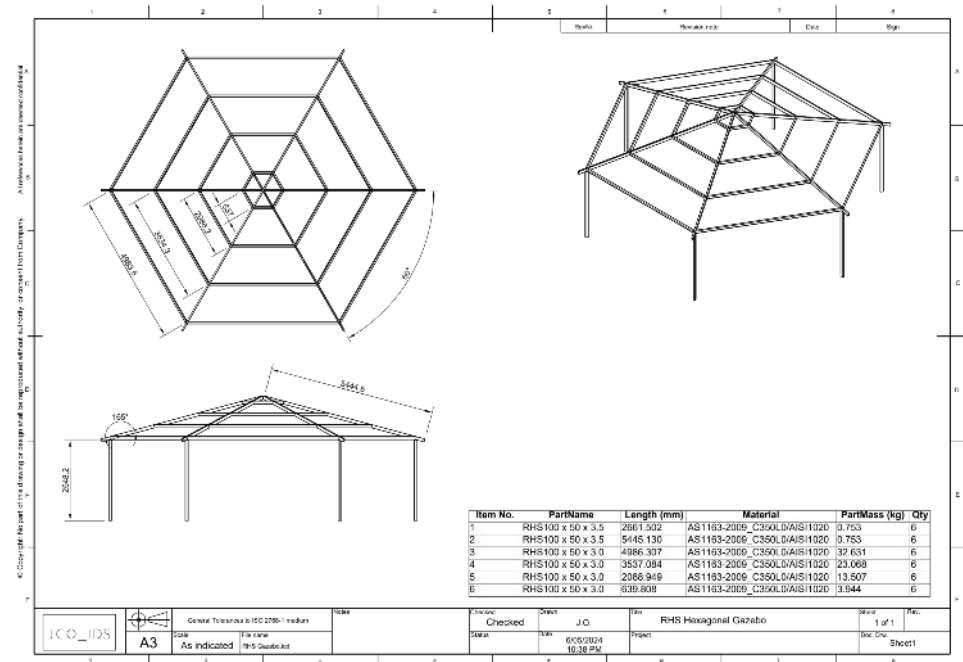
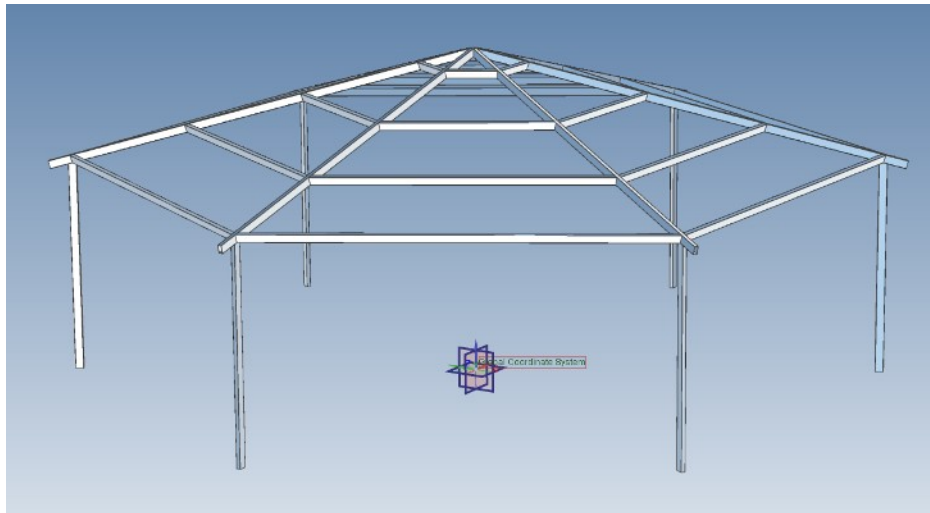




IRONCAD

Hexagon Gazebo Framing

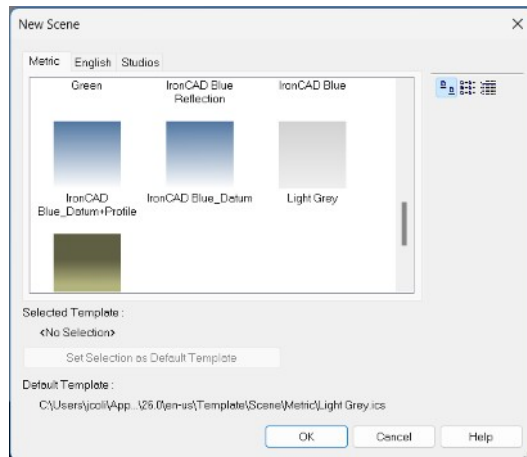




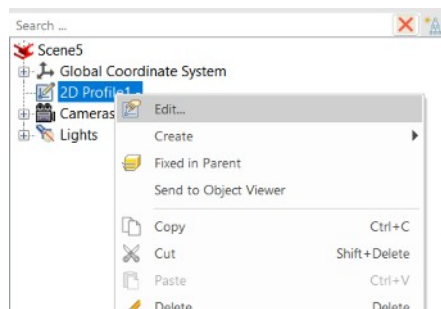
IRONCAD

Hexagon Gazebo Framing

Select a scene template. For this project I selected a customized IronCAD Blue_Datum+Profile template.



Start by selecting the 2D Profile from the scene browser

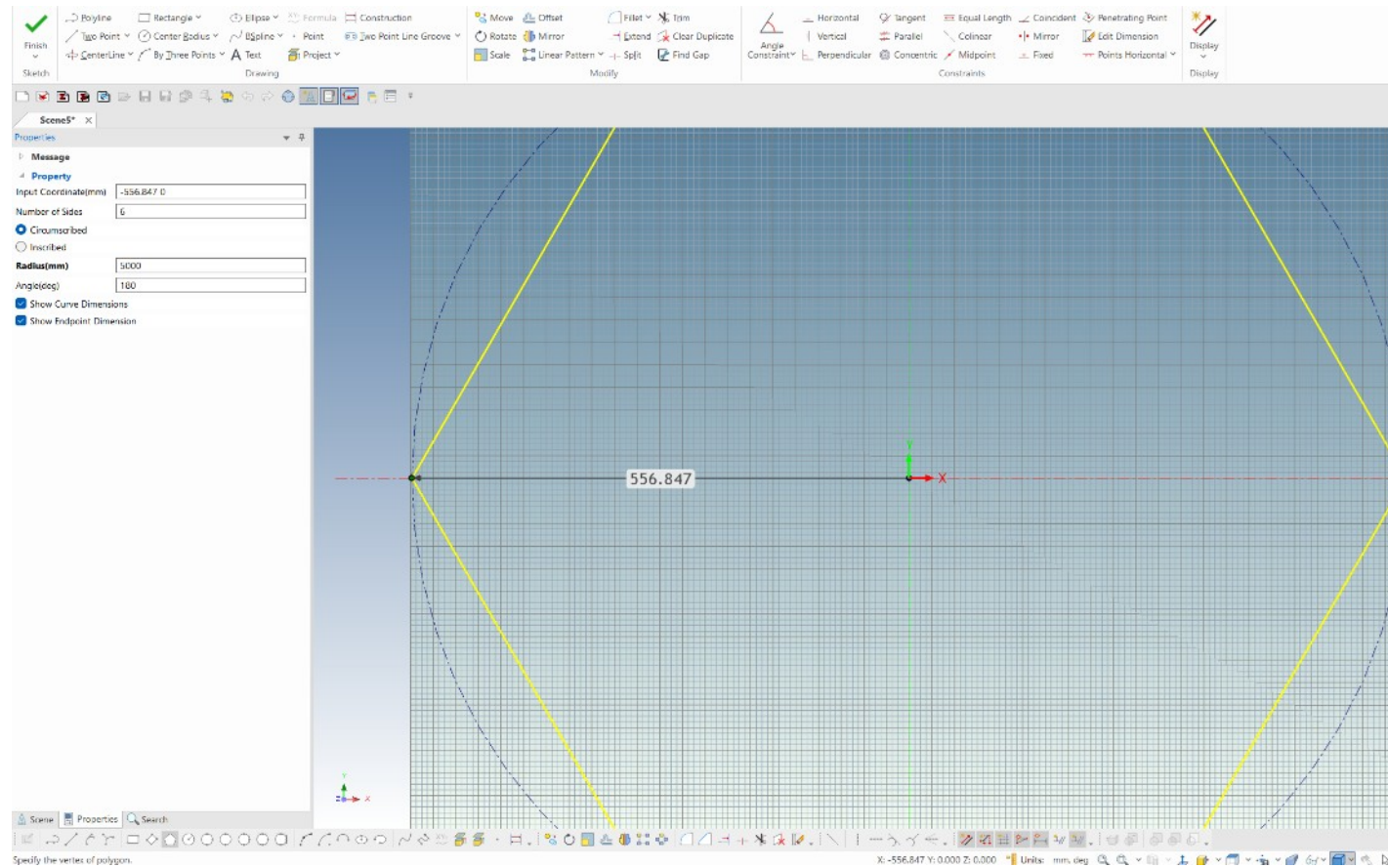




IRONCAD

Hexagon Gazebo Framing

Draw a polygon, set Property values

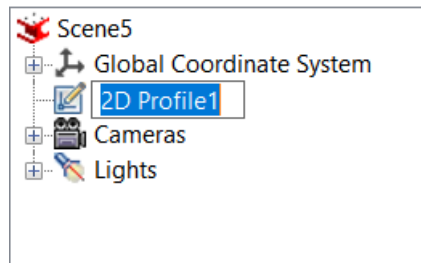




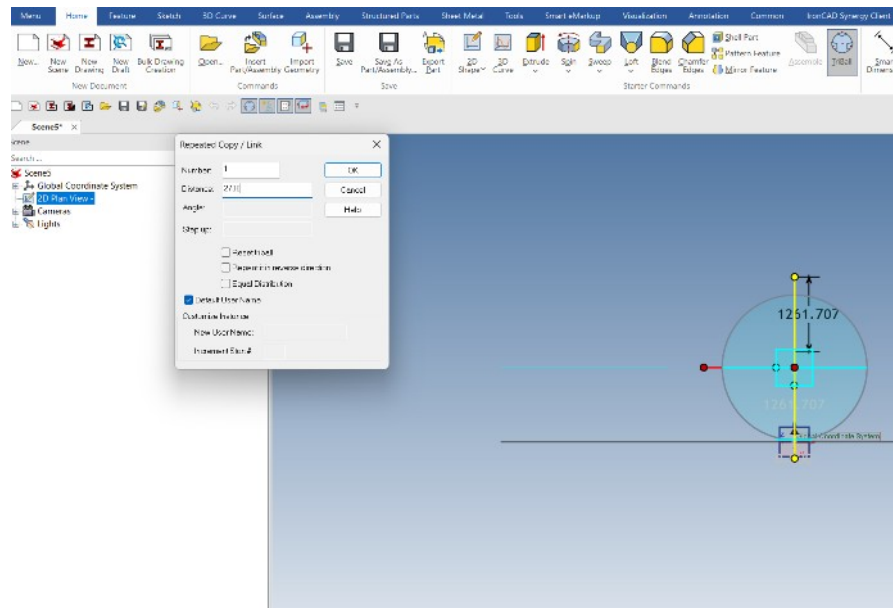
IRONCAD

Hexagon Gazebo Framing

Rename 2D Profile1 > 2D Plan View



Select the Front View > F10 > Link 2700

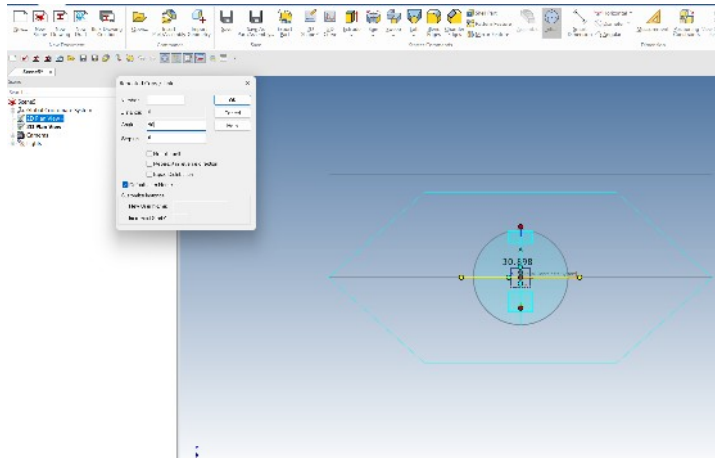




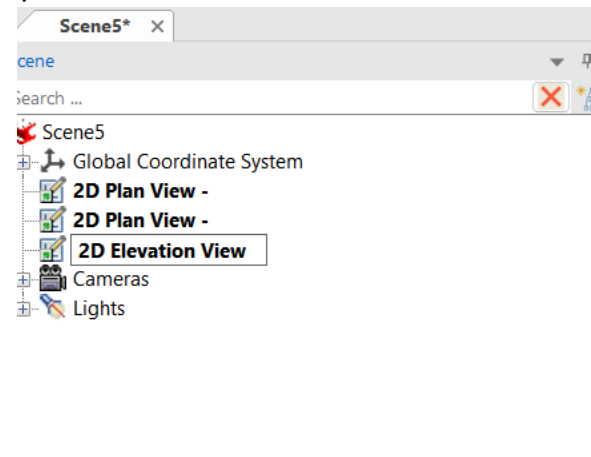
IRONCAD

Hexagon Gazebo Framing

With the Triball selected, copy 2D Plan > rotate 90°



Rename to Elevation and make sure it is no link to the other profiles

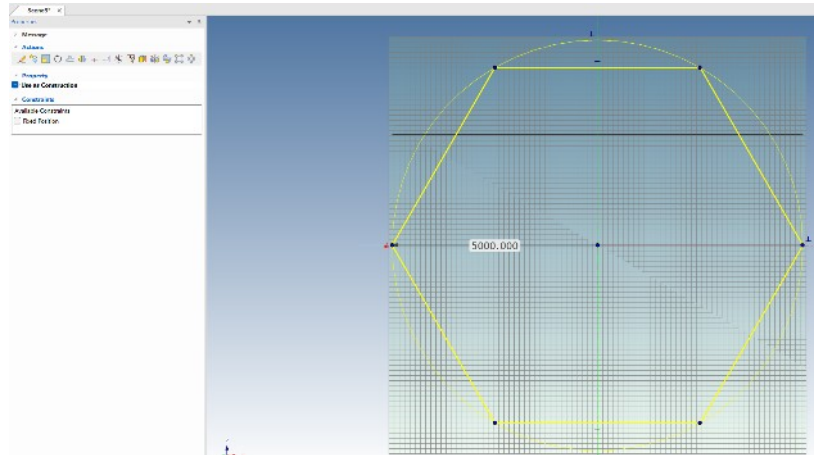




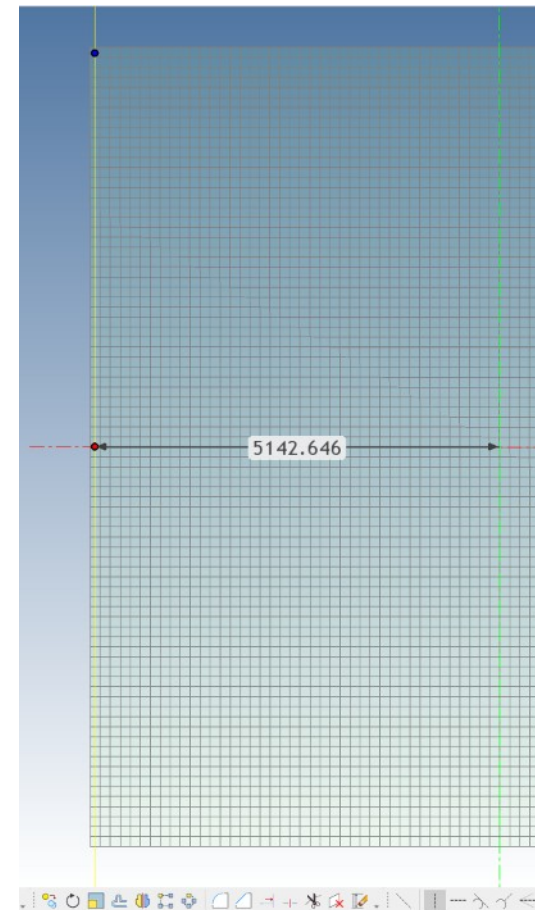
IRONCAD

Hexagon Gazebo Framing

Select existing sketch on the profile and delete



Create a Vertical Construction Line and set to 5000 mm

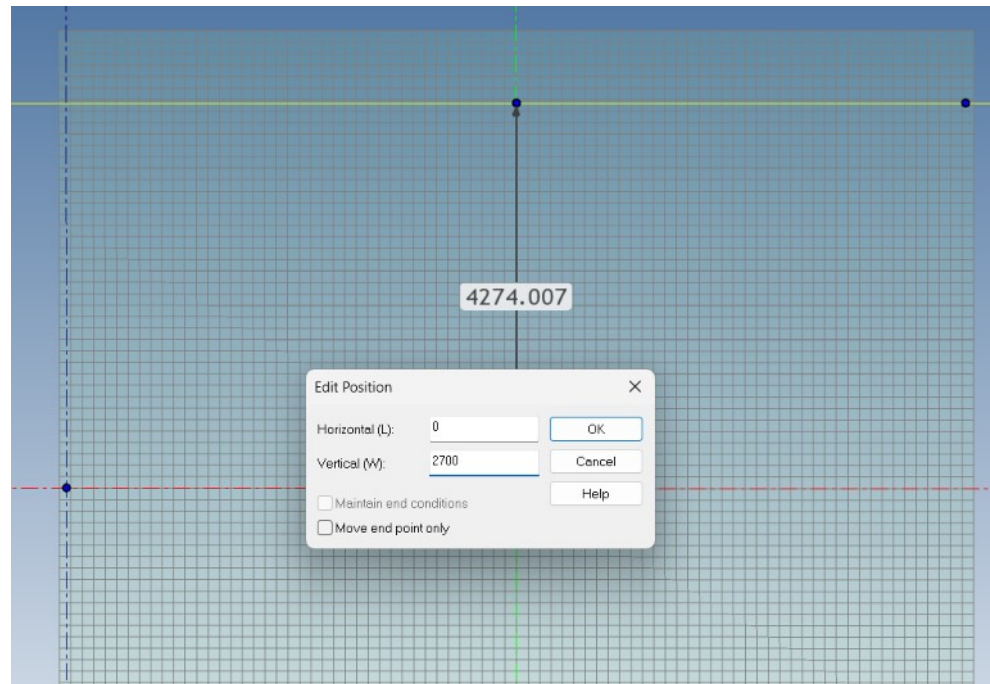




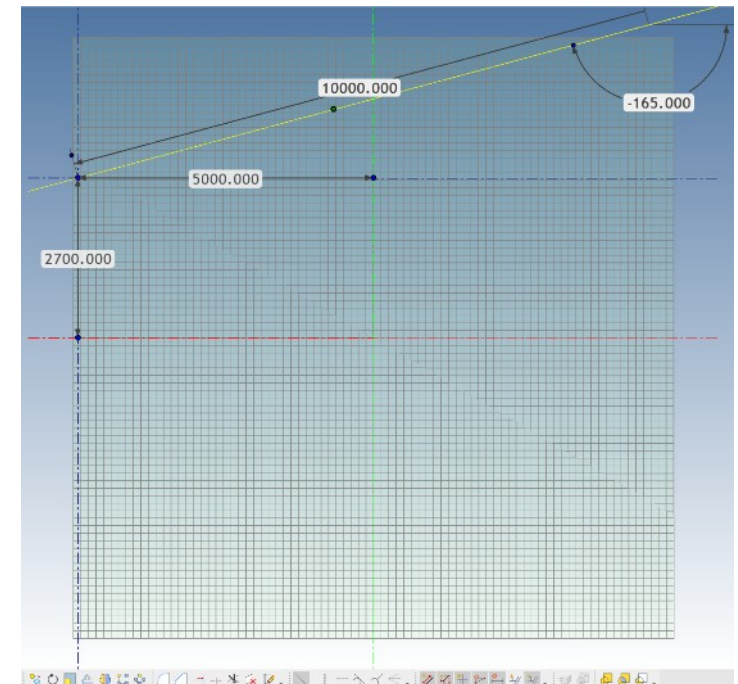
IRONCAD

Hexagon Gazebo Framing

Create a Horizontal Construction Line and set to 2700.



Create a Diagonal Construction Line and set to 15°

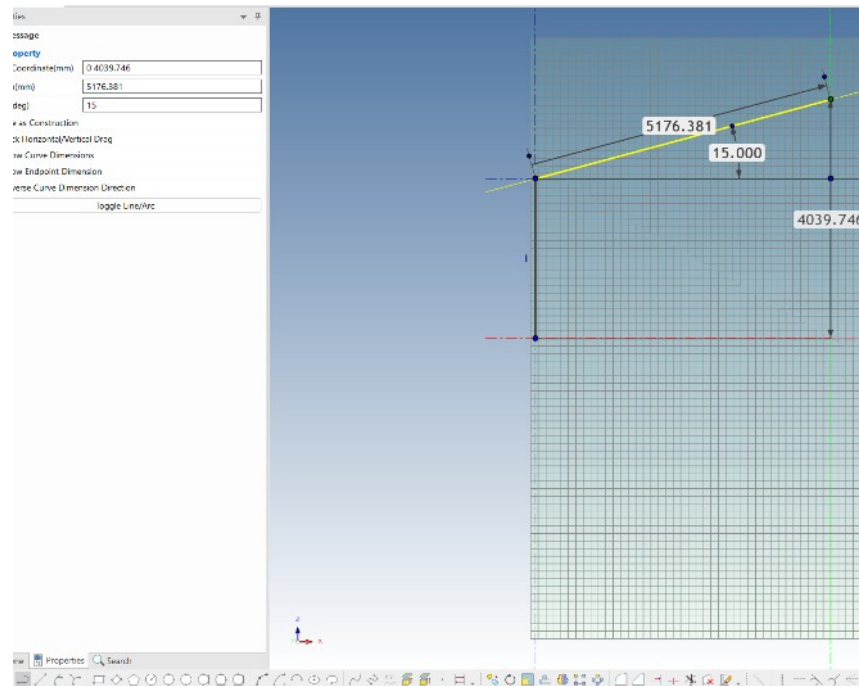




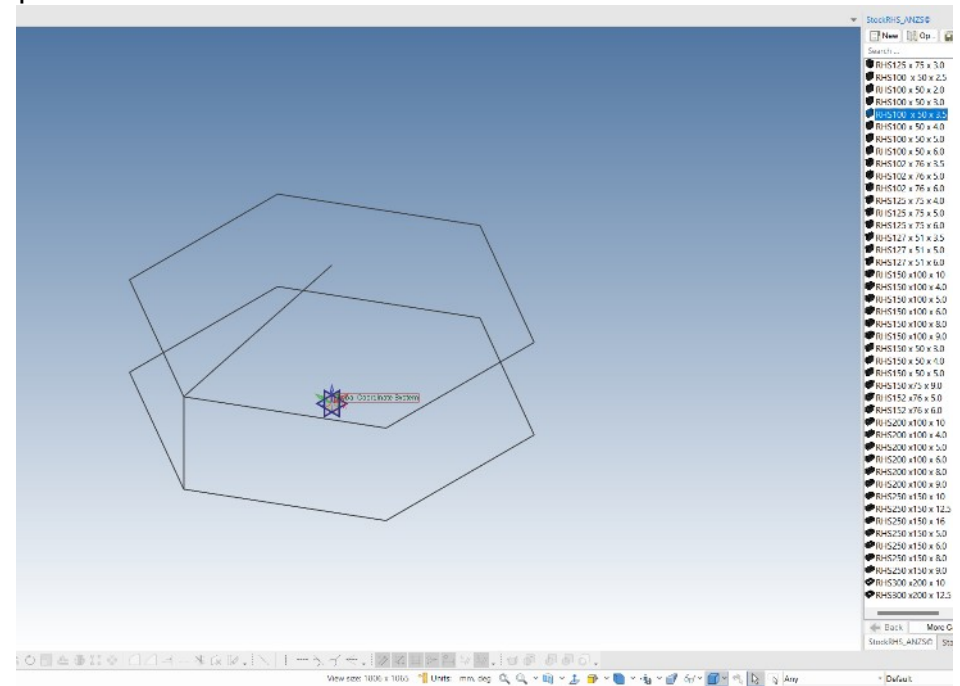
IRONCAD

Hexagon Gazebo Framing

Draw Polyline over Construction Guide



Select RHS 00 x 50 x 3.5 StockRHS_ANZS catalog and drag to place.

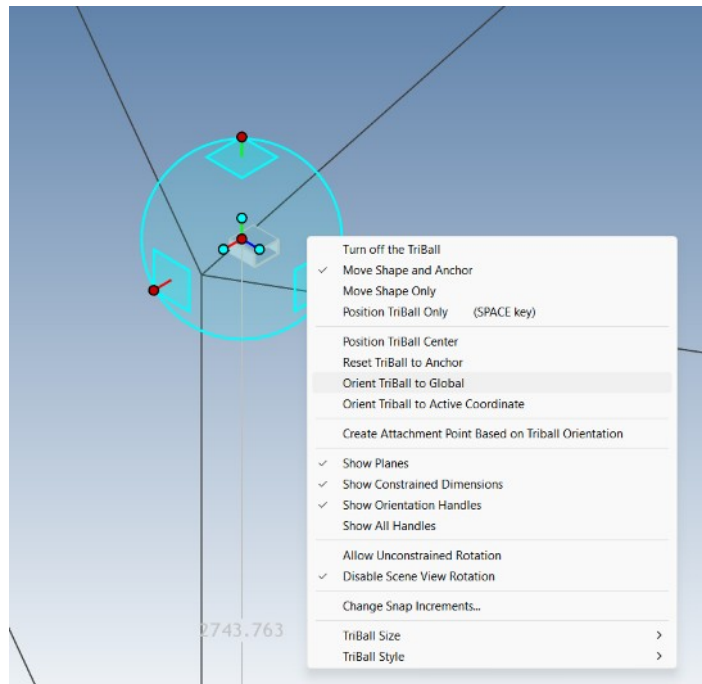




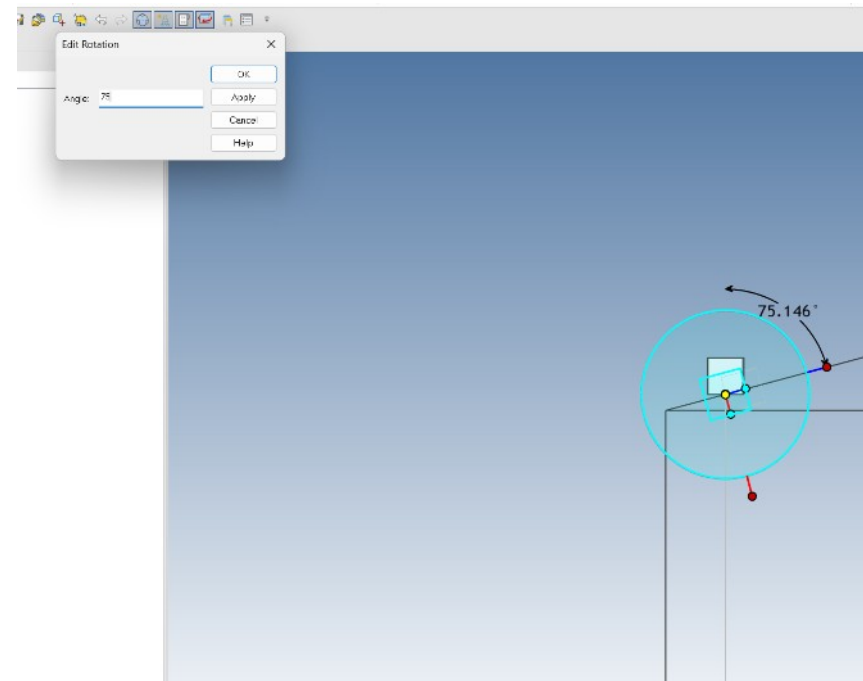
IRONCAD

Hexagon Gazebo Framing

Select RHS 00 x 50 x 3.5 StockRHS_ANZS catalog and drag to place. Orient TriBall to Global and position.



Position Rafter along the diagonal line

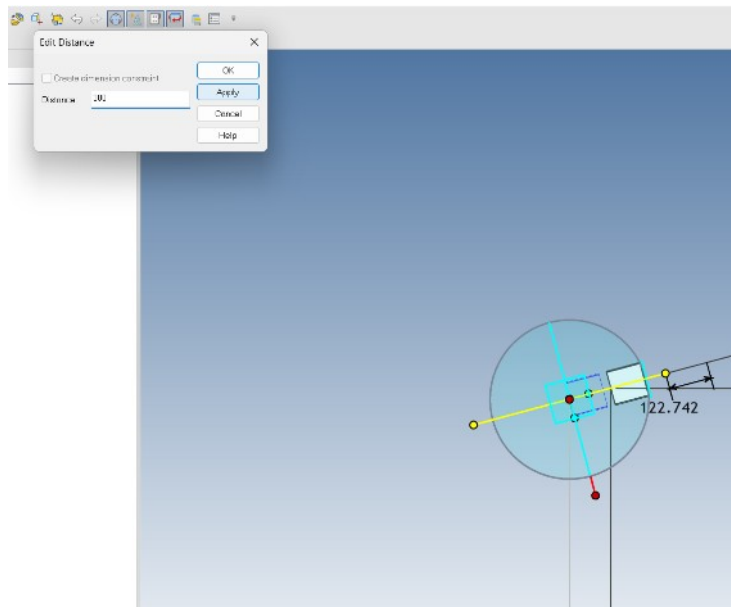




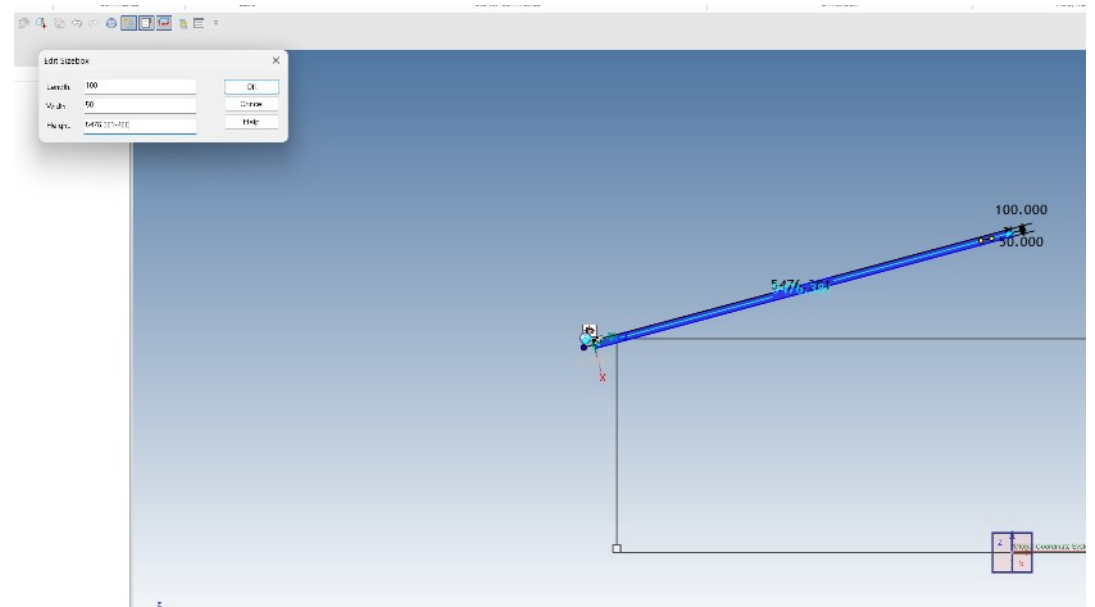
IRONCAD

Hexagon Gazebo Framing

Set Overhang



Set Rafter length

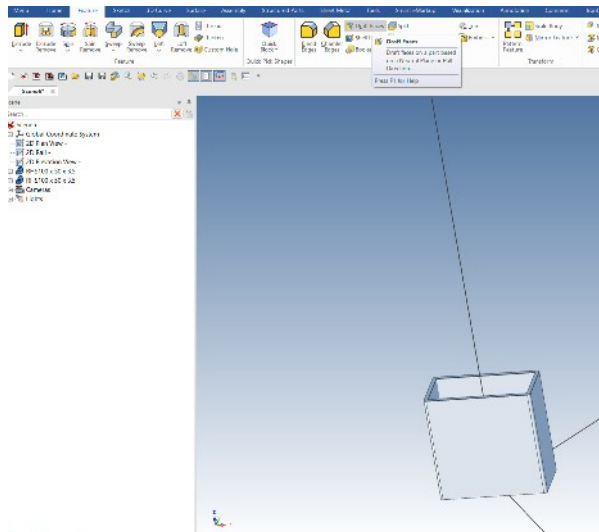




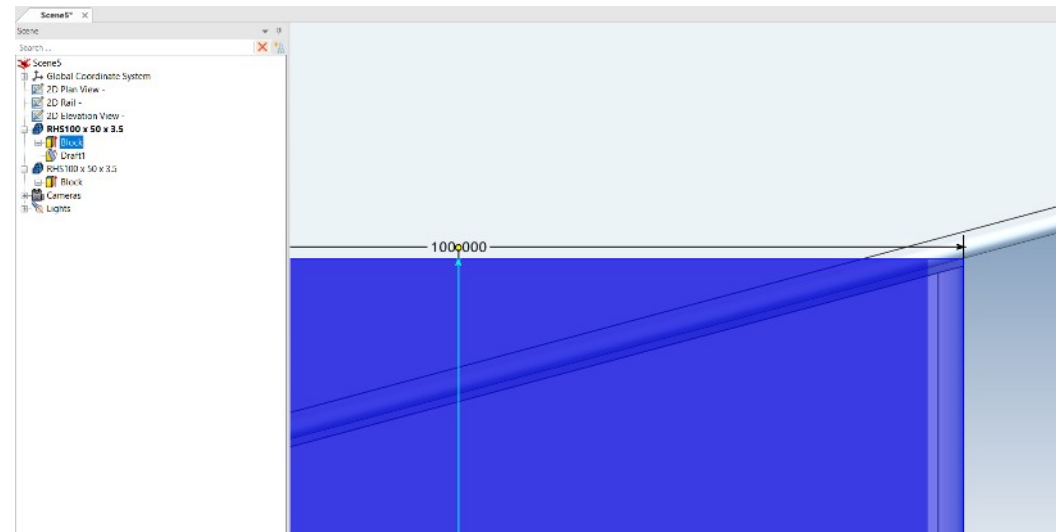
IRONCAD

Hexagon Gazebo Framing

Set Draft Face.



Set RHS Post/Joist height

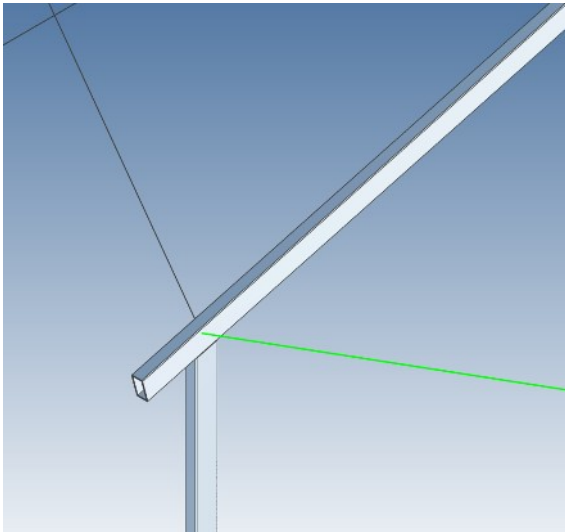




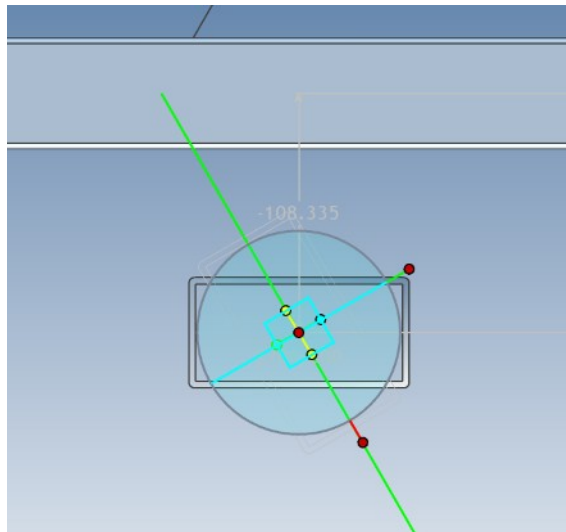
IRONCAD

Hexagon Gazebo Framing

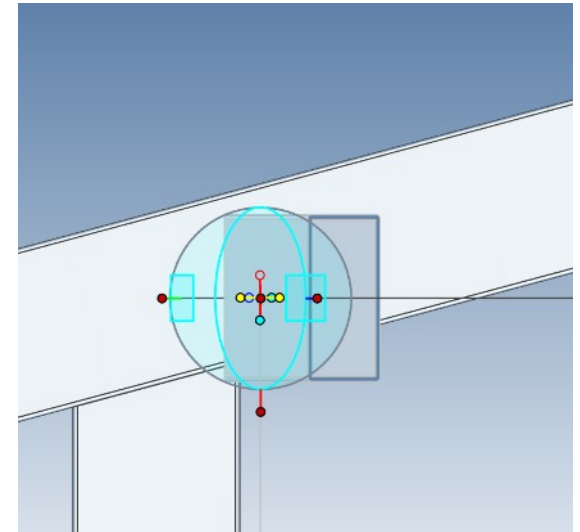
Drag and drop RHS as a Purlin



Align to guide line/sketch



Align to horizontal guide sketch

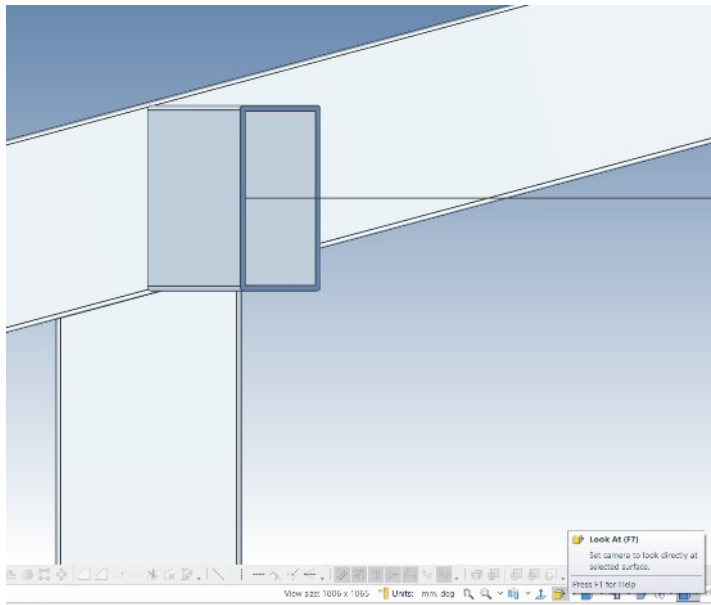




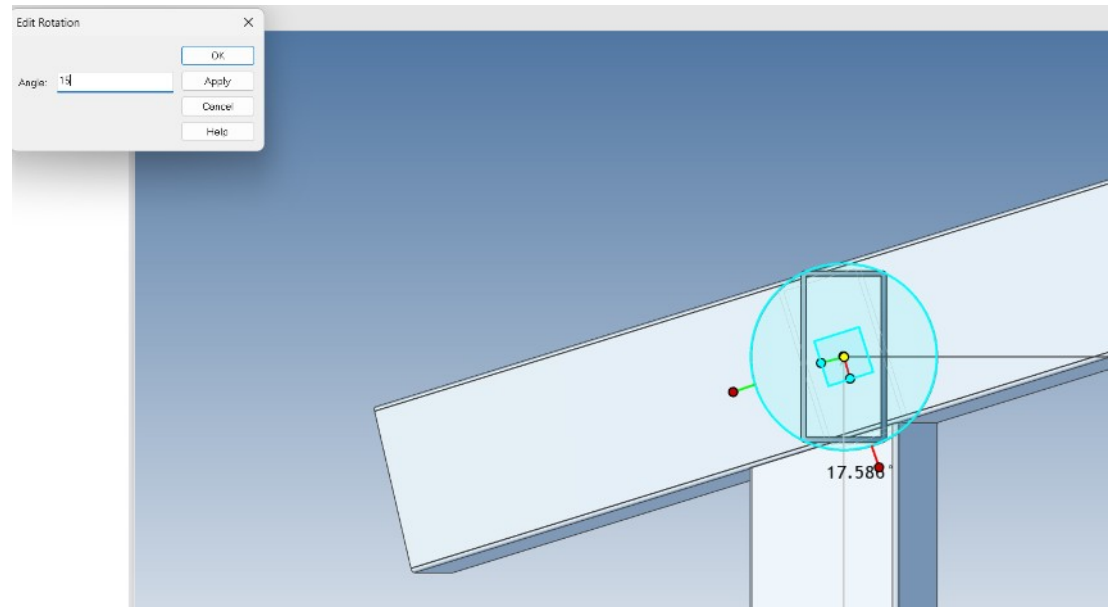
IRONCAD

Hexagon Gazebo Framing

Set Look At (F6) rafter face



Align to rafter, I used 16° as it closely match better than 15°

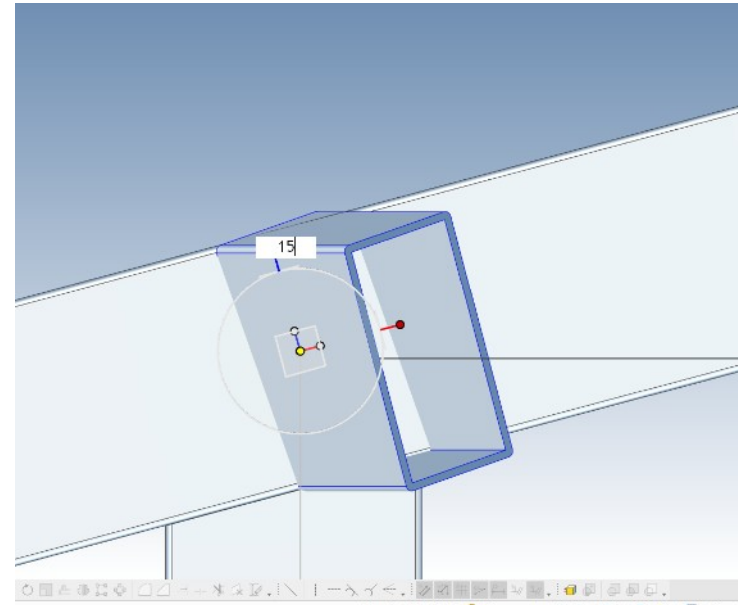
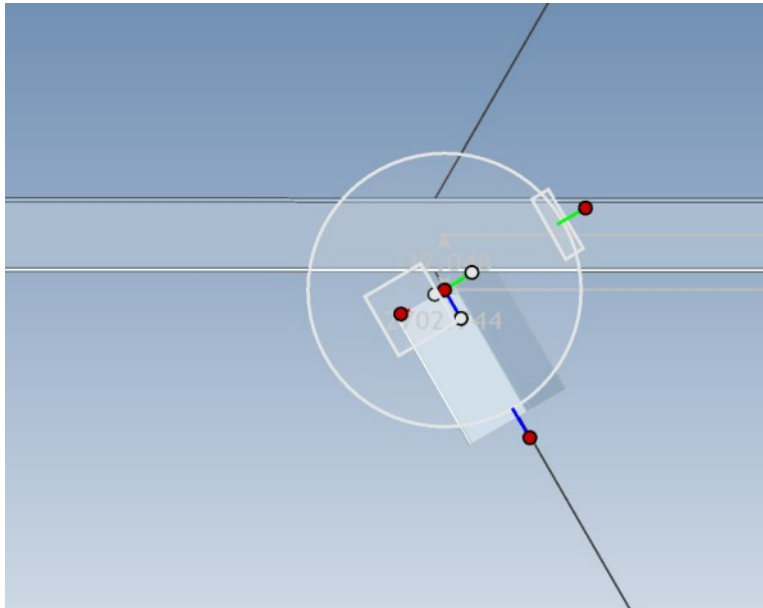




IRONCAD

Hexagon Gazebo Framing

Set space bar Triball to align with rafter face and angle.

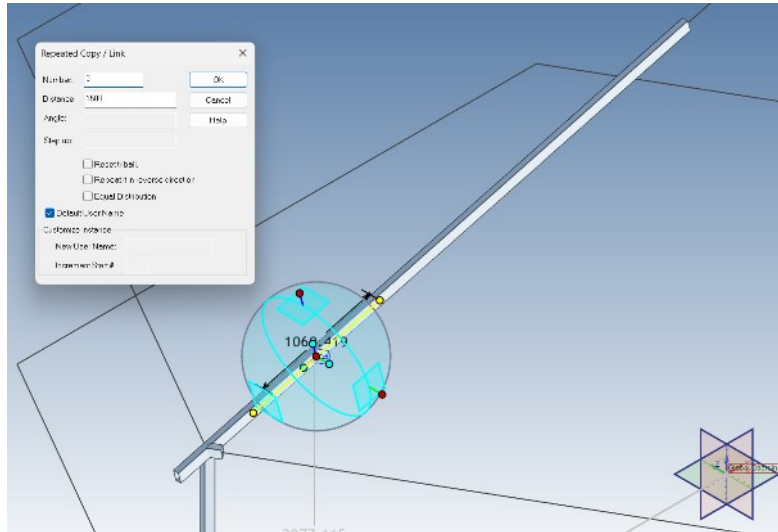




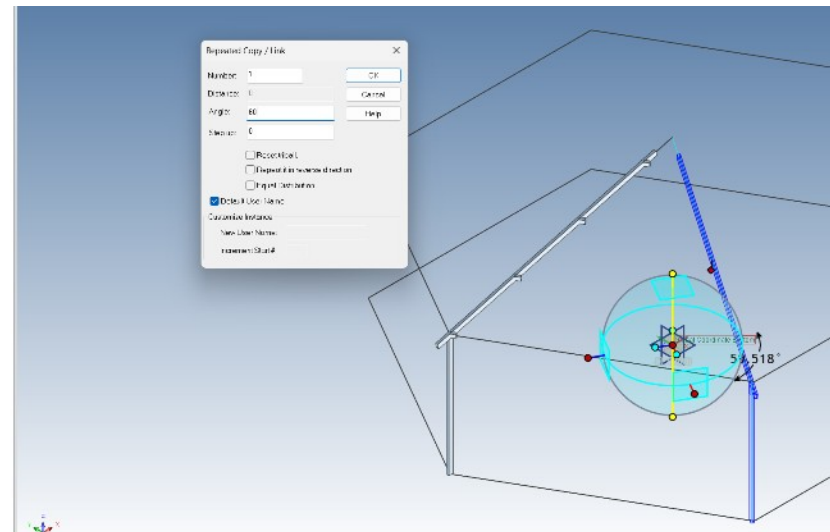
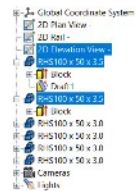
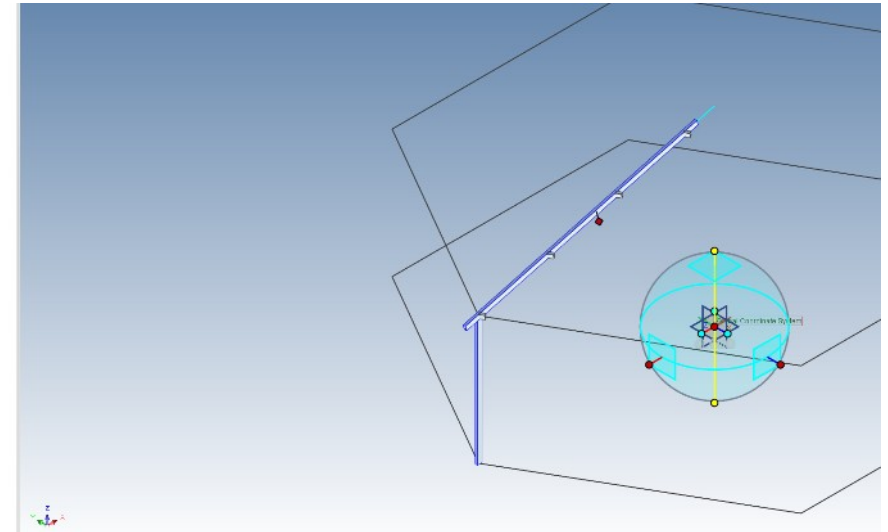
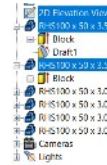
IRONCAD

Hexagon Gazebo Framing

Copy Purlin along the rafter



Copy and rotate 60° 2D Elevation, Joiste and Rafter

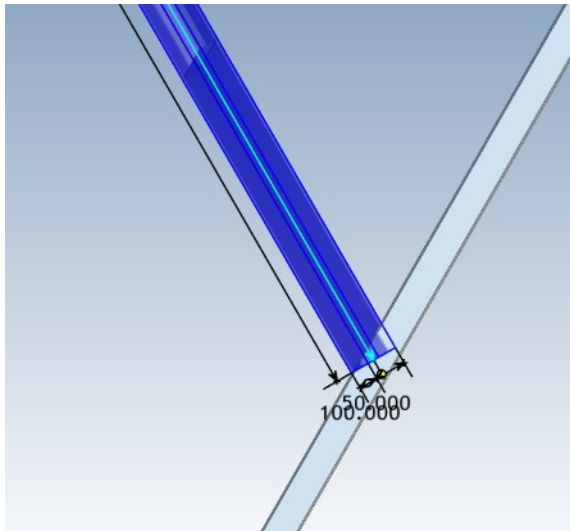




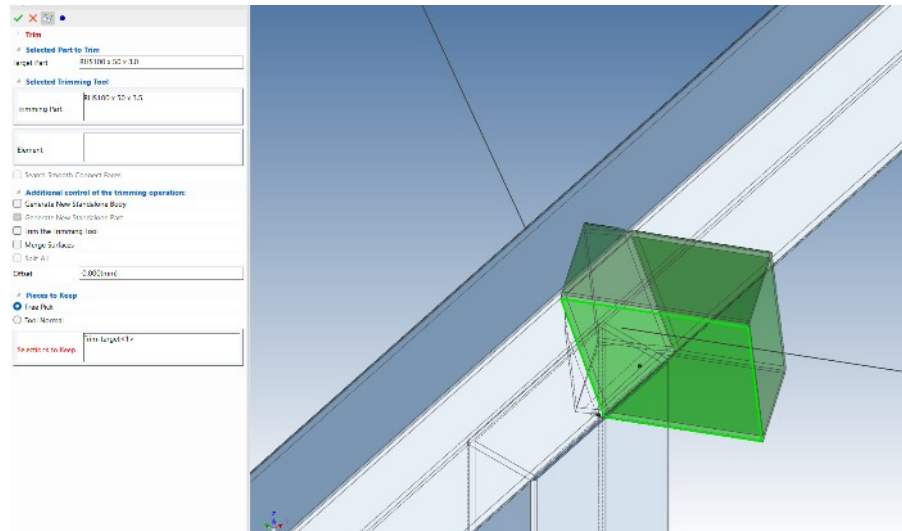
IRONCAD

Hexagon Gazebo Framing

Extend each Purlin to the copied joist and rafter



Trim each purlin to rafter

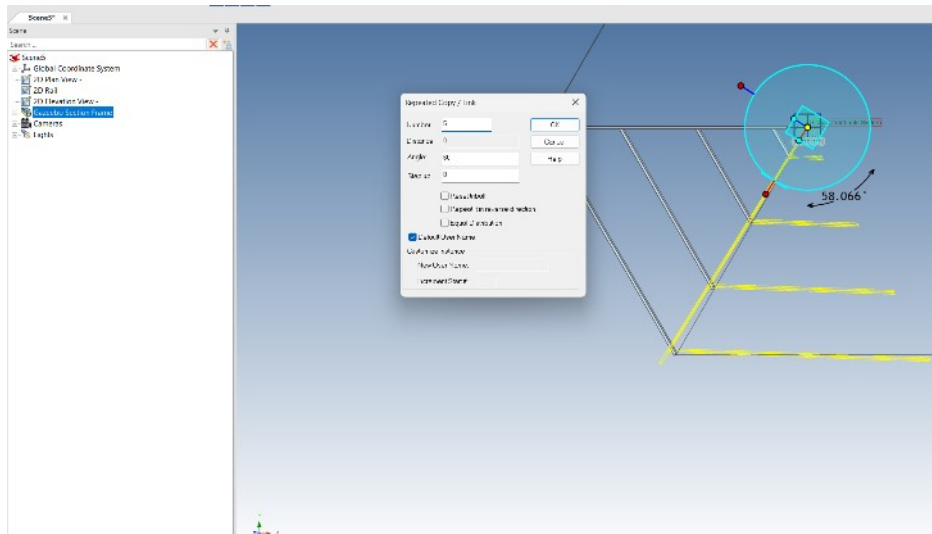




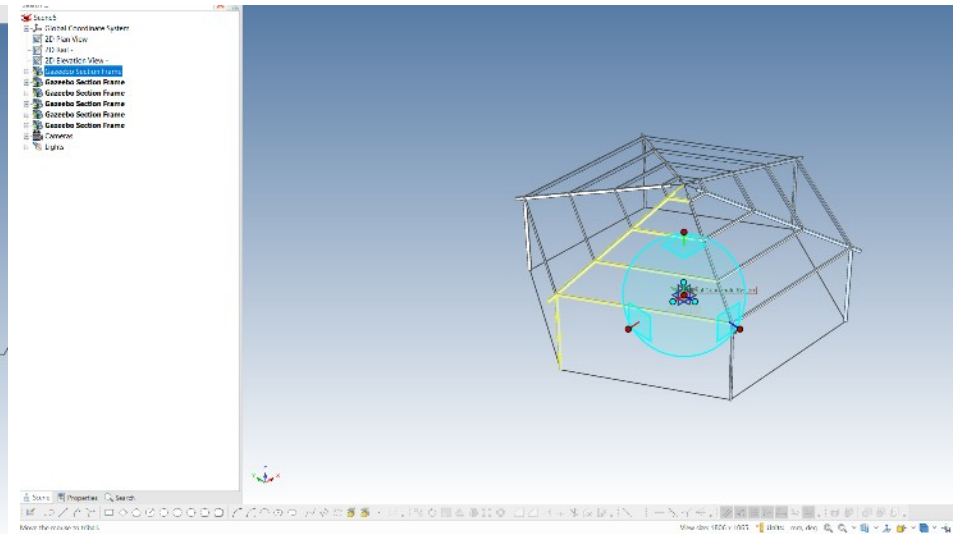
IRONCAD

Hexagon Gazebo Framing

Select the Gazebo Section Frame>Triball> Set Link



Finished Gazebo Structure

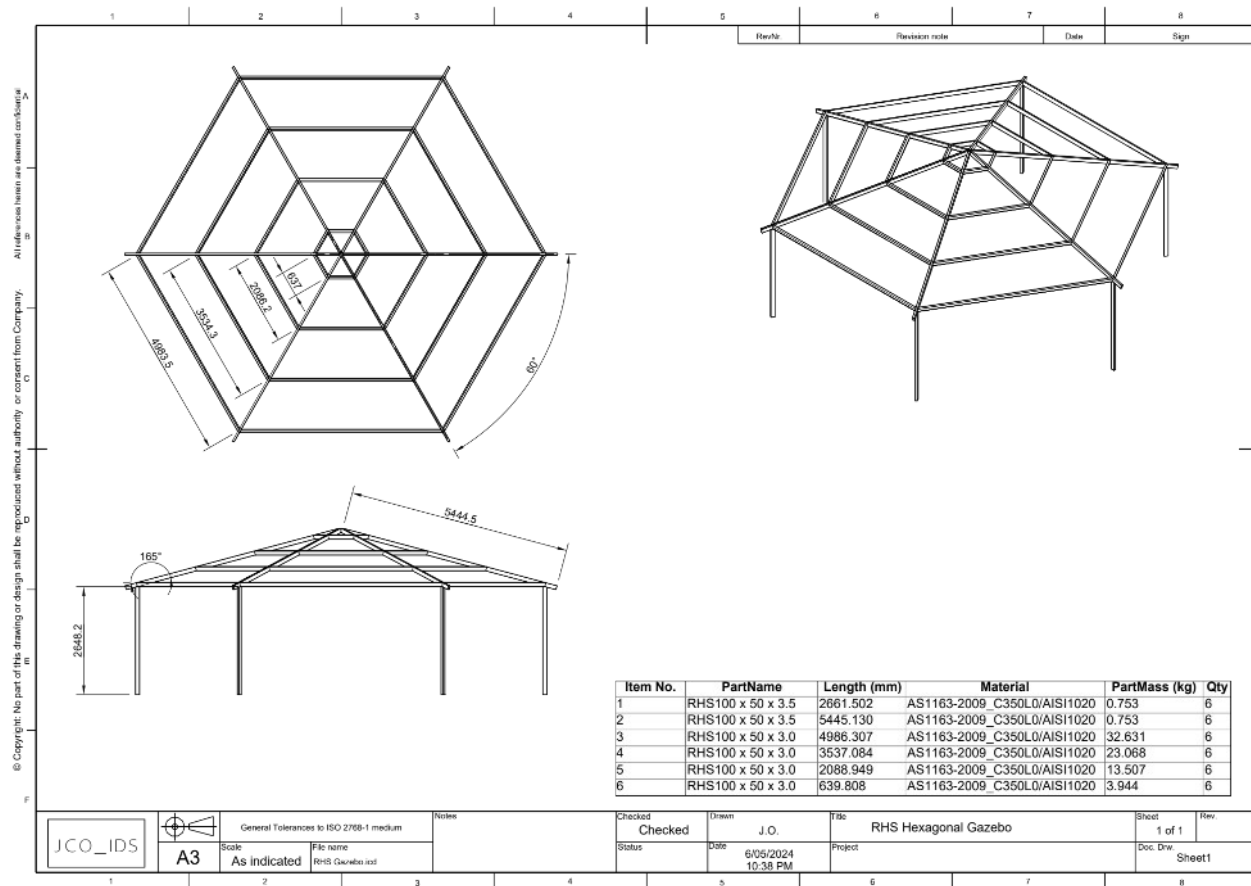




IRONCAD

Hexagon Gazebo Framing

Make an assembly drawing





IRONCAD

Hexagon Gazebo Framing

Customize and set column headers

