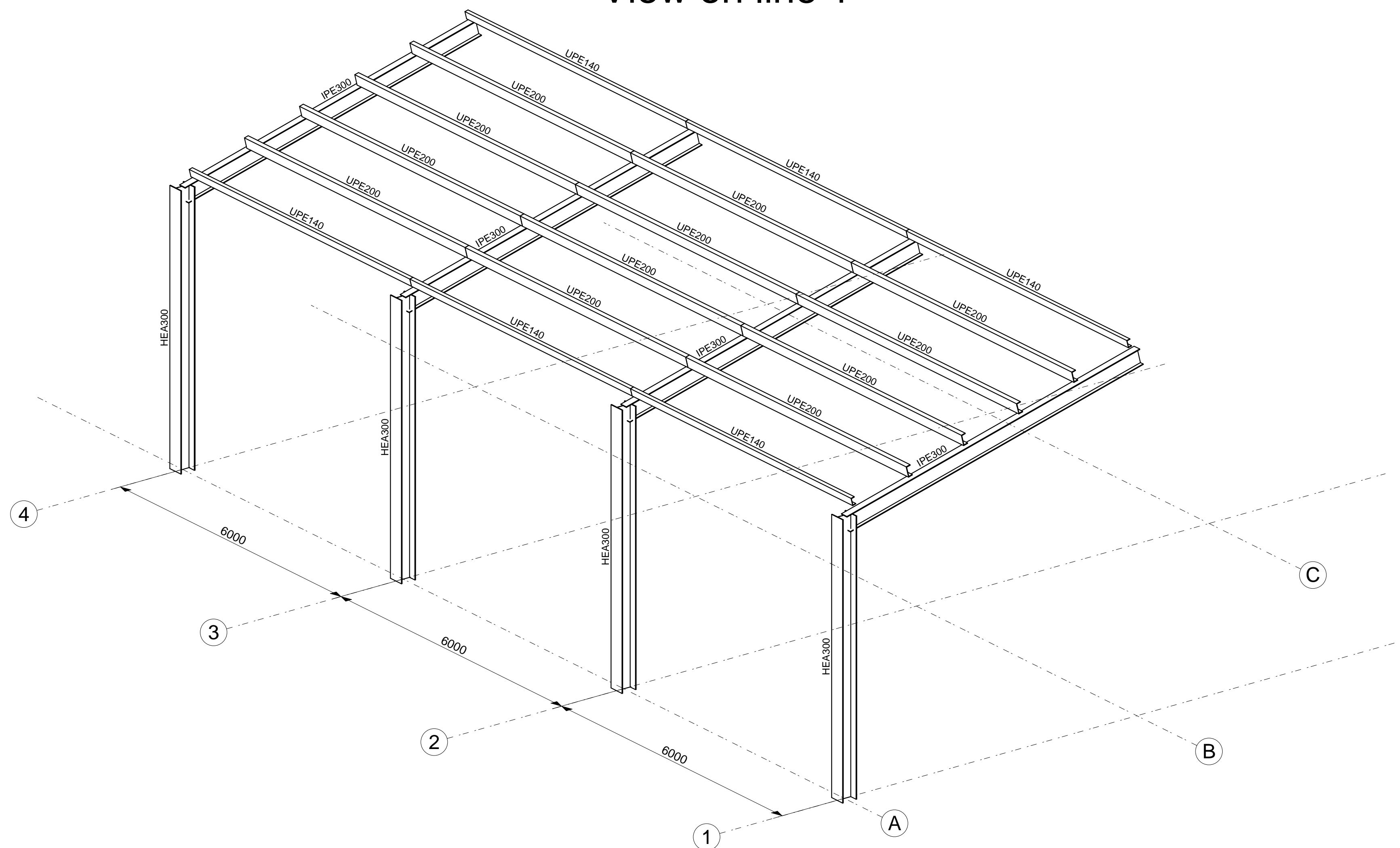


View on line 1



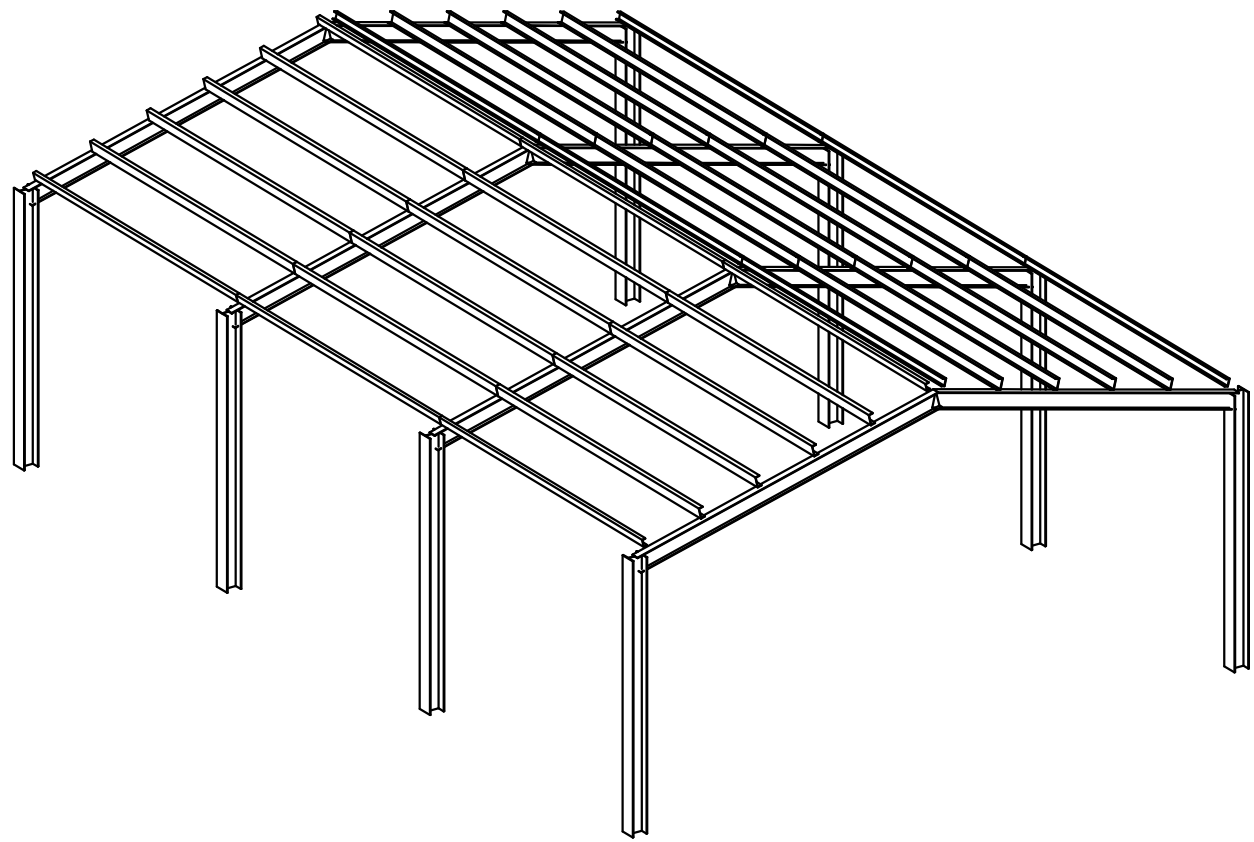
3D View of the Left Side

ASSIGNMENT 1: Model the Purlins as shown.

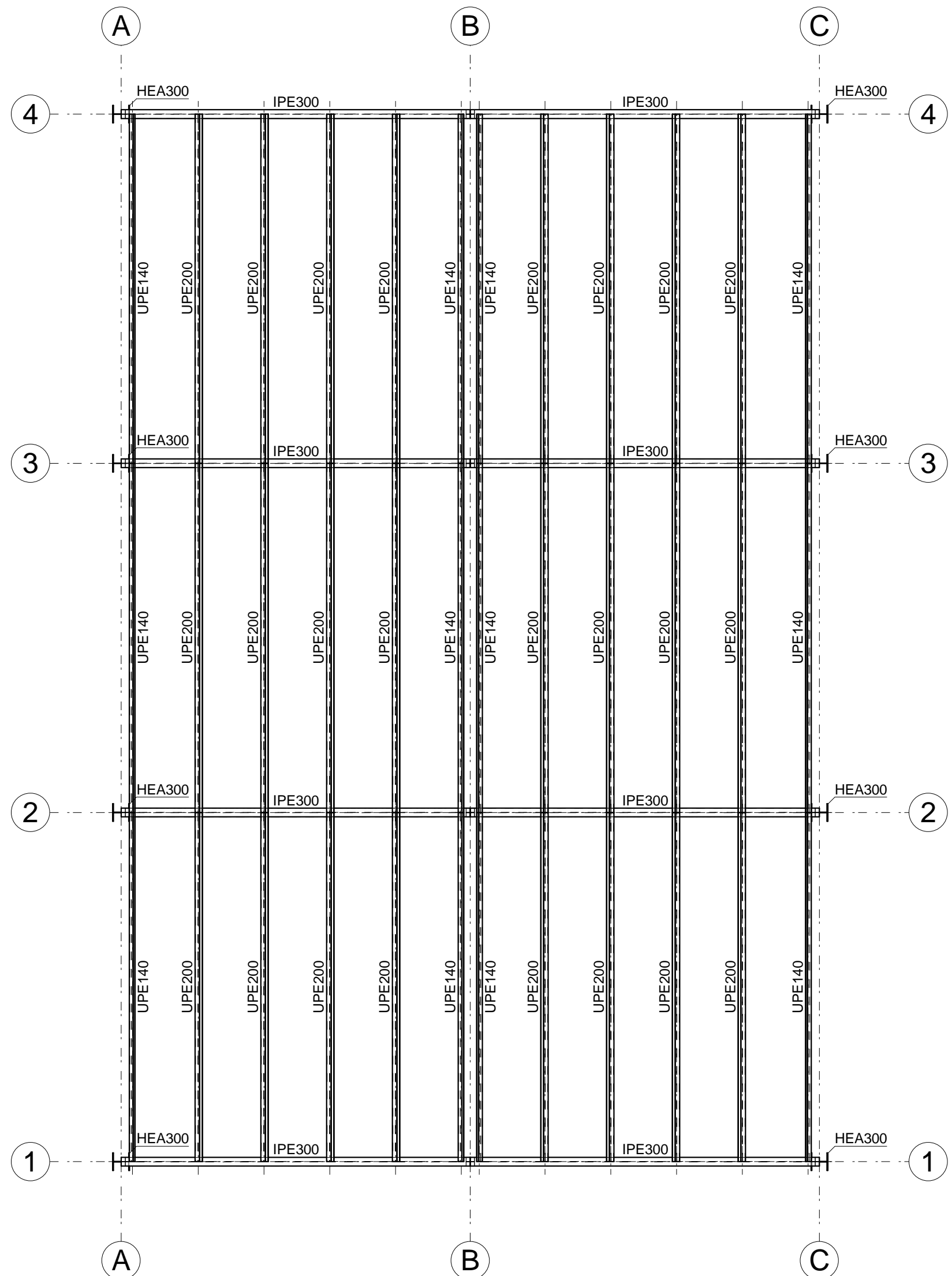
1. Ensure the top of the purlins is at the same level
2. The largest purlin is 20mm above the roof beam
3. All dimensions are in millimeters
4. Assume reasonable values for any information not provided.
5. The Bays are spaced 6000 mm apart.
6. The Roof beams are entered as "BEHIND" the definition line.
7. The COLUMNS are entered as "MIDDLE"
8. Ensure the "Beam Groups" of all elements is correct.
9. Ensure the "Definition Lines" of ALL elements intersect. You can verify this by seeing "BLUE" joints at the intersections. (IMPORTANT)
10. The offset positions of the Purlins will be achieved by using "Position in Depth" and "Position in Plane" offsets.
11. The Slope of the Roof beam is given as 1:4 as shown on the drawing.

ASSIGNMENT 2: Using "ADJUST PURLINS" to Bring the top level of Purlins to the same point.

1. Enter all the purlins with zero offsets. At this point they will not look right and top levels will not be the same
2. Adjust the Purlin which governs the whole scheme (Any one of the largest purlins) in such a way that its top level is at the desired place.
3. Select ALL the purlins on One side of the roof and click on the "Adjust Purlins" command near the Auto Adjust button.
4. Select the Governing Purlin which you had manually brought to the right place by giving appropriate "Position in Depth" offset
5. Select any point on the Governing Purlin which represents the plane where the cladding will be.
6. All selected Purlins will be adjusted accordingly.
7. NOTE that Girts can also be adjusted in the same way. Watch the video here. <https://youtu.be/yp1ZQqybsrg>



3D View



Top View