**Top Running Crane**

**Crane Tie-Back Angle and Plate Details**

- Exterior or Interior Frame Column (Shape may vary)
- 3/8" Ø A325 Bolt with Washer on inside of Column Flange
- PC44_ Crane Tie-Back Angle
- Field weld at each Tie-Back Angle. See Notes 3 & 4
- 1/4" 4" total
- Crane Rail
- BT__ Crane Beam

*Crane Tie-Back Angle*
When Crane Beam Clearance is less than 4"

- 4" to 1'-0 Crane Beam Clearance
- 2" Ø x 2" A325 Bolt with Washer on Bottom of Column Plate.
- PC95_ Crane Tie-Back Plate. Provided when Crane Beam is not provided by Bldg Mfg.
- Field weld at each Tie-Back Plate when Crane Beam is not provided by Bldg Mfg. See Notes 3 & 4
- 1/4" 3" (6" Total)
- Crane Rail
- BT__ Crane Beam

*Crane Tie-Back Plate*
When Crane Beam Clearance is 4" to 1'-0

**Note:**
1) Refer to Erection Drawings for Crane Dimensions, Part Marks, Bolts and additional information supplied by Building Manufacturer.
2) Crimp or Tack-Weld Bolt and Nut threads at Crane Beam, Crane Tie-Back Angle, Plate and Crane Angle Brace after fully installed and adjusted.
3) All welding is to be performed by welders who are certified by an AWS certified welding inspector to be qualified in accordance with AWS D1.1 for process and position required to weld the field modification.
4) All welding is to be performed using electrode requirements for Group II steel in accordance with AWS D1.1, Table 3.1