NOTES:

1. Steel for diaphragms, crossframes, connection plates, gussets and stiffeners shall be as designated on the Plans.

2. All welds for diaphragms, crossframes, connection plates, gussets and stiffeners shall terminate 5/8" ± 1/8" from the ends of the plates.

3. Bolts shall be 7/8" diameter. Bolt holes shall be 15/16" diameter. The minimum edge distance shall be 1 1/2" unless otherwise shown on the Plans. Oversized or short-slotted holes may only be used with the permission of the Fabrication Engineer.

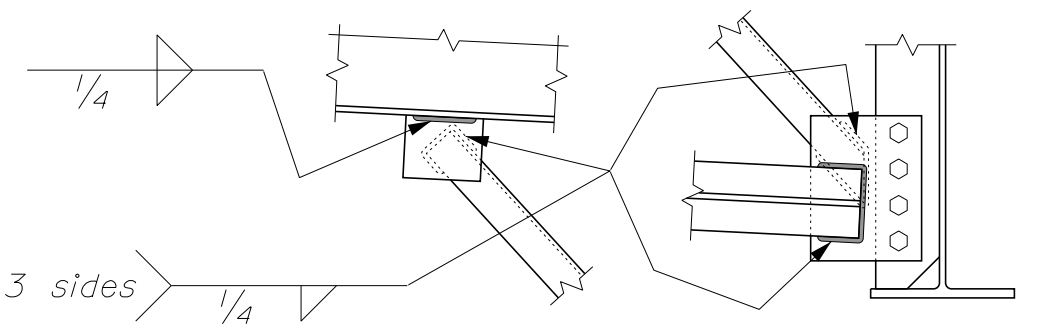
4. Connection plates and gussets shall be 3/8" minimum thickness. Connection plates shall be 7" minimum width and full web depth, and they shall be tight fit to both flanges.

5. The plate thickness for stiffeners and bent connection plates shall be as shown on the Plans.

6. The bearing ends of bearing stiffeners shall be flush and square with the web and shall have at least 75% of the bearing end area in contact with the flanges within the tolerances allowed by the latest edition of the AWS D1.5 welding code.

7. Intermediate stiffeners shall be tight fit to both flanges. Intermediate stiffeners used as connection plates shall be detailed as connection plates.

8. Connection plates and stiffeners used as connection plates shall be welded to the web and flanges on both sides of the plates.



~ TYPICAL WELD DETAILS ~

DIAPHRAGM & CROSSFRAME NOTES

Supplemental
Standard Detail

Supersedes 504(07)

1 Jan. 3, 2023