

1.2.1.6 Cross Frames at Bents

Cross frames at bents are more critical to transfer seismic forces from the superstructure to the substructure. One solution is to use detail 1.2.1.6A with a W shape beam between the girders at the top of the cross frame. Welded studs are added to the top flange of these W shape beams to provide the lateral resistance.

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If a joint system is required for a cross frame at end bents, it may be necessary to use details similar to cross frames at continuous beam interior bents. See Figure 1.2.1.6A.

Diaphragms or cross-frames are required along skewed interior bents and end bents.

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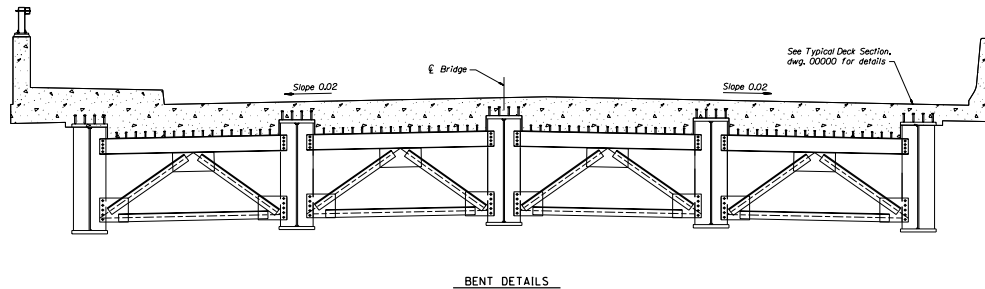


Figure 1.2.1.6A

It is desirable to have all cross frame member centerlines intersecting at a common point. But, it is often easier to design for the eccentric loads in the connection than to get a common intersection point of the member centerlines.