



Bridge Design Details 12.1 February 2025

Railroads

Structure Design plans are forwarded to the District Design Office and the District Railroad Coordinator for submittal to the railroad. This submittal may be requested during both the Advance Planning and General Plan stages of a project.

The following is a list of general railroad requirements applicable to most projects which should be shown on both the ADVANCE PLANNING STUDY and GENERAL PLAN submittals. For other applicable notes and details, see *Bridge Design Details: 12 Railroad Details*, Attachment 12A.A.1 and 12A.A.2.

1. Show district-provided alignment or layout line.
2. Show track layout information and limits of railroad right-of-way with respect to centerline of the tracks.
3. Show future tracks and access roadways. Identify the existing tracks as Main, Siding or, Spur, etc.
4. Show rail elevation and location of minimum vertical clearance over all existing and future tracks, as well as access roads. A table may be used to present information at multiple locations.
5. Show minimum horizontal clearance, measured perpendicular from the centerline of the nearest existing or future track to the face of obstruction, such as substructure or below grade foundation.
6. Show horizontal spacing measured perpendicularly between the centerlines of the existing or future tracks.
7. Show depth of bridge foundation and excavations below the bottom of the rail elevation when excavations will encroach on railroad. For “GENERAL RAILROAD EXCAVATION ZONES” and general shoring notes, see *Bridge Design Details: 12 Railroad Details*, Attachment 12A.A.1.
8. Show limits of barrier rail and fence combination over the railroad right-of-way. For “TYPICAL FENCE ON BARRIER DETAIL”, see *Bridge Design Details: 12 Railroad Details*, Attachment 12A.A.2.
9. Show existing or proposed finished grade and roadway profile.
10. Show Railroad identifying information: railroad Name, Sub-Division, MP (Post Mile) and DOT No. __. Show direction of increasing Post Mile.
11. Show type of slope paving and any modifications to existing slope paving.



12. Show total width of superstructure, including travel way, shoulders, or sidewalk.
13. Show top and bottom elevation of the crash wall, if applicable.
14. Show “MINIMUM CONSTRUCTION CLEARANCE ENVELOPE” diagram, see *Bridge Design Details: 12 Railroad Details, Attachment 12A.A.2*.
15. Show all existing and proposed utilities within railroad right-of-way.