

# Intermodal North - Joliet 2011 - 2020

Planning, Civil Engineering and Bridge Structures - Design and Construction Phase Engineering

Joliet, Illinois

Rempe-Sharpe provided planning, design, and construction phase engineering for three (3) bridge structures spanning the Union Pacific trackage at the Intermodal North project. The roadway has three (3) lane cross section and the bridge is a single span steel plate girder composite construction with reinforced concrete deck.

Rempe-Sharpe:

- ◇ Provided Conceptual Planning, overall Stormwater Management
- ◇ Conducted field surveys of the existing roadway/stream crossing.
- ◇ Analyzed the existing culvert and size the proposed replacement culvert.
- ◇ Prepared permit application and compiled supporting documentation for submittal to the IDNR.
- ◇ Prepared detailed grading plans for development of compensatory storage areas
- ◇ Structural analysis of culvert opening for maximum shear and moment
- ◇ Prepared detailed box culvert plans, cross sections, wingwalls, parapets, guardrails and approaches per IDOT
- ◇ Coordinated soil borings
- ◇ Provided detailed quantities and Engineer's Estimate of Cost per IDOT format.
- ◇ Provided bid cycle assistance
- ◇ Reviewed shop drawings of reinforcing and appurtenances.
- ◇ Provided site visits to coordinate any contractor questions or issues, verify compliance, specifications, and review payouts

This 880 acre intermodal development by Union Pacific generated approximately 400 acre feet of stormwater storage, and constructed three grade separation structures and four (4) culvert structures, with resident engineering services by Rempe-Sharpe.



800 Acre Union-Pacific Intermodal Yard



Five (5) Rail Bridges 2011-2015  
Laraway Tunnel Constructed 2016



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