

Route 159 Bridge over the CSX Railroad, Rotterdam, NY

The driving force behind selecting the SpaanSpan® bridge system for the Route 159 bridge over the CSX Railroad in Rotterdam, NY, was to increase the under clearance for the railroad without increasing the profile of the approaches. High performance concrete with strengths in excess of 10,000 psi, pre-tensioned slabs

and a post-tensioned finished structure provided the owner with a low-maintenance, highly-durable, precast concrete solution. This project marks the first time the NYSDOT utilized the SpaanSpan® system. The 130-ft span was accomplished with a minimal structural depth of approximately 21”.



Precast, pre-tensioned deck slab units were placed between and supported by the longitudinal edge girders. Temporary bracing and support falsework is also shown.

The longitudinal edge girders were spliced over the active tracks to provide a completed span of 130 ft. Spliced girders were used to facilitate shipping and job-site erection.

Credits: Owner: New York State Department of Transportation, Region 1

Contractor: Kubricky Construction Corp.

Engineer: Janssen & Spaans Engineering, Inc.

Precast structural components, photos, and story: The Fort Miller Co., Inc., PO Box 98, Schuylerville, NY 12871. □