

Moses Wheeler (I-95)

Stratford CT, Milford, CT

Project Description

The Moses Wheeler Bridge is one of the longest and most heavily traveled bridges in the state of Connecticut. The ConnDOT program plans to replace the bridge and will expand the existing bridge from 92 feet wide to 136 feet wide while maintaining the existing six-lane highway and adding four full-width shoulders.

Owner

ConnDOT

Contractor

Wash / PCL Joint Venture II

Designer

STV Inc.

Our Role

McB provided the following services on this project:

- Erection plans & procedures for girders over land and over the river channel.
- Erection Equipment design, including rigging, temporary shoring towers, stiffening truss, and cart system to roll girders laterally.
- Analysis of existing bridges to confirm capacity while erecting girders.

Total Contract Value

\$166.5 million

Timeline

2011-2016

Construction Method and Specifications

McB provided construction engineering services in support of Phase 1 girder erection in a narrow area between the existing bridge and active Metro-North Railroad tracks. This phase included conventional girder erection over land with ground based crawler cranes in addition to 4 spans of girder erection over the Housatonic River.

The proximity of the existing railroad bridge eliminated the option of using barge mounted cranes for the river spans. McB developed an innovative procedure where girders could be erected from the existing bridge using lightweight truck cranes and rolled laterally on temporary supports. This system utilized temporary towers, rolling carts, and an external stiffening truss to provide girder stability until all girders and cross frames were erected in a particular span.

