

Project: (D900020) Design-Build Bridge
Superstructure Replacements

Client: New York State Department of
Transportation (NYSDOT)

Year: 2014 – 2015

NYS Route 960H over Catatonk Creek

Total Project Cost: \$2.4M

Prudent Engineering was retained as subconsultant to provide design services for the Federally Funded bridge superstructure replacement of New York State Route 960H over the Catatonk Creek in the Village of Candor in Tioga County, New York. The replacement superstructure is 39'-2" wide and a three-span continuous bridge totaling 230 feet in length. The project involved the removal of the precast box beam primary members and elimination of the three simple-span configurations and installing a steel multi-beam three-span continuous superstructure system with precast deck panels. Prudent completed the following tasks for the project:

- Demolition & Removal of the Superstructure
- Substructure Modifications & Bearing Replacement
- Design of the Precast Deck Panels
- Structural Steel Design
- WZTC – Pedestrian Bridge Design
- Installation of New Approach Slabs
- Highway Approach Work
- Vertical & Horizontal Alignment
- Shop Drawing Review & Approval

Prudent's team designed and detailed this fast-track project in less than four months to maintain the contractor's tight construction schedule and terms, which required this bridge be completed in 2015.



*NYS Route
960H Bridge*

Connection Road over Osborne Creek

Total Project Fee: \$700K

Prudent provided subconsultant design services for the Federally Funded bridge superstructure replacement of Connection Road over Osborne Creek in the Town of Colesville, Broome County, New York. The bridge is 60 feet wide and has one span measuring 35 feet in length, and supports busy intersections at each approach to the bridge. This design build project involved the following tasks:

- Demolition & Removal of the Superstructure
- Substructure Modifications & Bearing Replacement
- Installation of New Pre-stressed Box Beams
- Staged WZTC
- Installation of New Approach Slabs
- Highway Approach Work
- Shop Drawing Review

Prudent was responsible for the substructure design, new box-beam design, vertical and horizontal alignments, staged WZTC layout, and highway approach design. Prudent was also responsible for shop drawing review and approval. Prudent's team designed and detailed this fast-track bridge project in less than four months to maintain the contractor's construction schedule, which required this bridge be completed in 2015.



New Connection Road Bridge Deck