



Barton

TH 2 Bridge 8

Barton – BRO 1449(31)

Project Location: Town of Barton in Orleans County on TH 2 over Roaring Brook. The bridge is located approximately 0.8 miles easterly of the Glover/Barton town line.

PROJECT MILESTONES

Preliminary Plans	Fall 2013
Permitting	Winter 2013
Final Design	Spring 2014
Right-of-Way Complete	Summer 2014
Bid Advertisement	Winter 2015
Contract Award	Spring 2015
Target Construction Schedule	Summer 2015

The Barton TH 2 Bridge 8 project will replace the existing bridge, which has a sub-standard width and is in poor condition, with a new bridge that meets current design standards. The existing Barton TH 2 Bridge 8 is a single span, two lane structure constructed in 1928. It is considered structurally deficient and has a sufficiency rating of 49 (out of a possible 100). The bridge spans 26-feet and is 21-feet wide between the existing barriers. The bridge superstructure (deck and beams) components are in poor condition. There are areas of spalling and chipping on the fascias and underside of the concrete beams. The substructure is in poor condition with visible cracking and undermining. The entire bridge structure is in need of replacement.

VTrans evaluated alternatives for replacement of Barton TH 2 Bridge 8 in an engineering study completed in July 2013. The alternatives addressed the proposed design criteria for bridge and roadway alignment, right of way impacts, hydraulics, historical and archaeological resources, and environmental resources.

The new bridge will be a Precast Prestressed Concrete NEXT Beam Bridge, which has a relatively short construction period and comparatively low construction and maintenance costs. The new bridge will span 45 feet in length and be 26 feet wide. The new bridge will feature crash tested railing along the span and at the approaches. The new bridge and approaches will also be superelevated to provide a safer transition through the horizontal curvature of the road.

The bridge will be constructed with Accelerated Bridge Construction methods, which will expedite construction and reduce disturbance to the traveling public. There will be a 28-day bridge closure for demolition of the existing structure and installation of new substructure, superstructure, and associated approach roadway construction.



Existing Bridge Structure



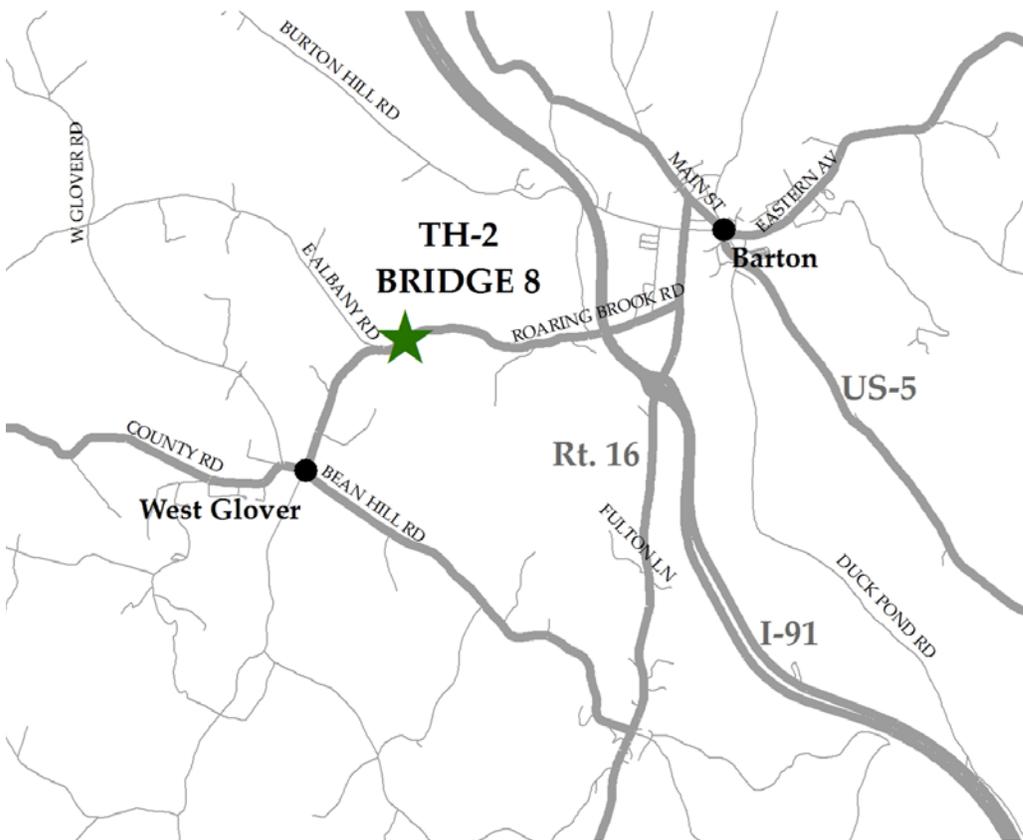
Target Construction Schedule: Construction activities will take place beginning in June 2015. The allowable bridge closure period is a single 28-calendar day closure period between June 22, 2015 and August 28, 2015. The contract is scheduled to be completed by October 16, 2015.

Contractor: The Contractor for Barton TH 2 Bridge 8 is J.P. Sicard, Inc.

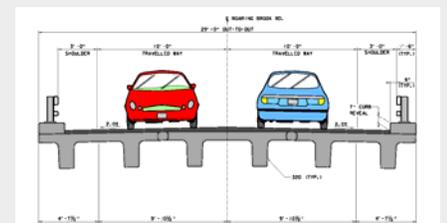
Cost: The contract amount for the project is \$1,036,334.41.

VTrans Project Manager: Todd Sumner, P.E.

Resident Engineer: Seth Hisman



Bridge Location Map



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