Castleton

VT 30 Bridge 93

Castleton Bridge 93 – BRF 015-2(10)

Project Location: Town of Castleton in Rutland County on VT 30 over the Clarendon and Pittsford Railroad. The bridge is located approximately 0.3 miles south of the intersection of VT 30 and VT 4A.

The Castleton VT 30 Bridge 93 project will replace the existing bridge, which has a substandard width, sight distance and vertical clearance over the Clarendon and Pittsford Railroad and is in poor condition, with a new bridge that meets current design standards. The existing Castleton VT 30 Bridge 93 is a three span, two lane structure constructed in 1938. The bridge is 109-feet in length and 29-feet wide. The bridge superstructure (deck and beams) components are in poor condition. Multiple holes have been patched in the bridge deck and there is concern that full depth holes could open at anytime.

VTrans evaluated alternatives for replacement of the Castleton VT 30 Bridge 93 in an engineering study completed in September 2012. The study assessed the proposed design criteria for bridge and roadway alignment, right of way impacts, historical and archaeological resources, and vertical clearance over the railroad. Several alternatives were considered including no action, repair and rehabilitation, superstructure replacement and full bridge replacement. Given the age and condition of the structure, the engineering study recommended full bridge replacement using Accelerated Bridge Construction (ABC) methods with an offsite detour.

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 structure will be 70-feet in length and 35-feet wide including two 11-foot travel lanes and two 5-foot shoulders. The roadway will be lowered 1-foot to improve site distance and safety for the traveling public. In addition, the railroad will be lowered 2-feet to increase the vertical clearance from 20’-6” to 21’-0”. Sheet piling will be installed on either side of the railroad tracks to accommodate future lowering of the railroad without any disturbance to the bridge. The new bridge will feature a galvanized 2 rail box beam with snow barrier to minimize snow accumulation on the underlying railroad tracks.

The bridge will be constructed with ABC methods, which will expedite construction and reduce disturbance to the public. There will be an allowable 28 day road closure with temporary single lane closures two weeks prior to and following the bridge closure period.

PROJECT MILESTONES

Preliminary Plans
- November 2013

Permitting
- June 2014

Final Design
- May 2014

Right-of-Way Complete
- July 2014

Bid Advertisement
- November 2014

Contract Award
- December 2014

Target Construction Schedule
- Summer 2015

Spalling and Exposed Rebar

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Target Construction Schedule: Construction activities will take place beginning in June 2015. The allowable bridge closure period is one consecutive 28 day period between July 5, 2015 and August 15, 2015. The contract is scheduled to be completed by September 25, 2015.

Contractor: W. M. Schultz Construction Incorporated

Cost: $2,154,029.50

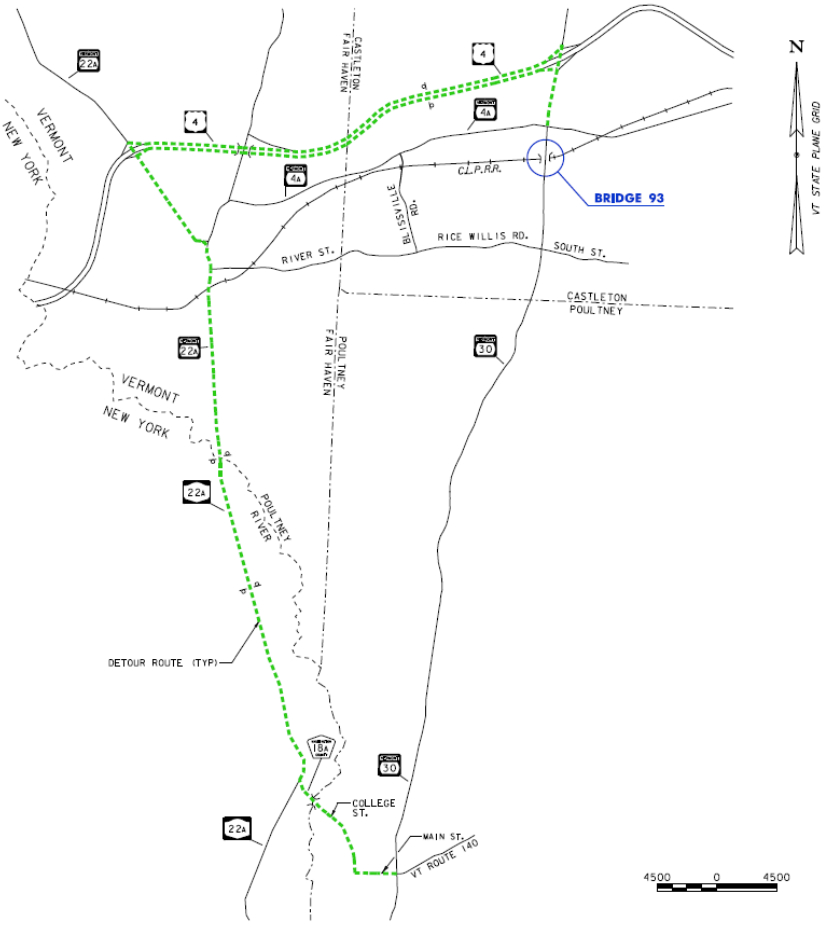
VTrans Project Manager: Jennifer Fitch, P.E.

VTrans Resident Engineer: Christopher D. Williams

Detour Route: During construction, traffic will be rerouted on US 4/VT 22A/NY 22A/ Washington County 18A/College Street and Main Street in Poultney.

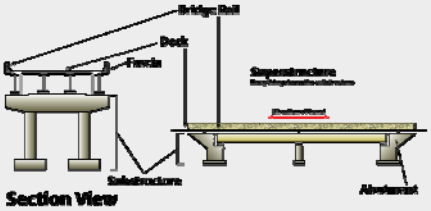
From the North: Continue onto US 4 W. Take the VT 22A exit, EXIT 2, toward Fair Haven/ Vergennes. Turn left onto VT-22A. Stay straight to continue onto NY-22A. Turn left onto County Hwy-18A/County Route 18A (crossing into Vermont). Turn slight right onto College Street in Poultney. Take second left onto Main Street in Poultney. Turn right onto VT 30.

From the South: Turn onto Main Street in Poultney. Take the 3rd right onto College Street. Turn slight left onto York St./VT-140 (crossing into New York). Continue onto Country Hwy-18A. Turn right onto State Route 22A/NY-22A (crossing into Vermont). Merge onto US-4 E toward Castleton/Rutland. Take the VT 30 exit, EXIT 4, toward Castleton.



Clarendon and Pittsford Railroad

Exposed Rebar



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