Stowe

VT Route 108, Bridge 3

PROJECT MILESTONES

Preliminary Plans
- June 2013

Permitting
- October 2013

Final Design
- February 2014

Right-of-Way Complete
- January 2015

Bid Advertisement
- June 2015

Contract Award
- July 2015

Target Construction Schedule
- October 2015 - September 2016

Exposed Rebar and Spalling

Stowe BRF 0235(15)

Project Location: Town of Stowe in Lamoille County on VT 108 over the West Branch of the Little River. The bridge is located approximately 1.5 miles west of the intersection with VT 100.

The Stowe, VT 108, Bridge 3 project will replace the existing bridge (which is structurally deficient) with a new wider single-span bridge that meets current design standards. The existing structure has a curb-to-curb width of 27 feet, 45 degree skew, and has approximately a 121 feet clear span between the abutments. It is a two-span steel rolled beam bridge built in 1938 with a cast-in-place concrete deck that was reconstructed in 1975. The underside of the deck shows numerous cracks with evidence of leaking. In addition to the poor condition of the deck, the deck geometry is defined as intolerable, which is due to the narrow width.

VTrans evaluated alternatives for bridge replacement of the Stowe VT 108 bridge 3 in an engineering study completed on May 29, 2012. The design addressed the proposed design criteria for bridge and roadway alignment, right of way impacts, hydraulics, historical and archaeological resources, and environmental impacts. Several alternatives were considered including no action, superstructure replacement/rehabilitation and full bridge replacement. The engineering study recommended a full replacement with a single-span structure and integral abutments with a temporary bridge as a detour.

The new bridge will replace the current superstructure and substructure with a new single-span structure, which has a relatively short construction period and comparatively low construction and maintenance costs. The new bridge will be 146 feet in length and 34 feet wide with galvanized 3-rail box beam bridge railing. The replacement structure will be placed on the existing horizontal alignment, with an improvement of the vertical profile by slightly lowering the roadway over the bridge. The single-span structure will also eliminate the existing intolerable geometry by widening the bridge to provide 30 feet curb-to-curb.

Accelerated Bridge Program
VTRANS

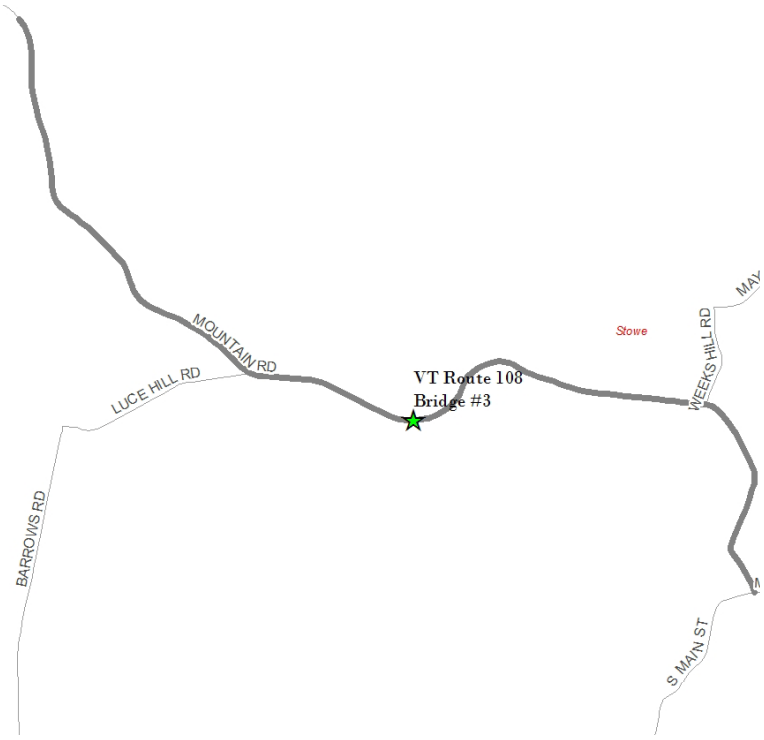
Target Construction Schedule: Construction activities will take place no earlier than October 19, 2015. All work required for installing the temporary bridge will be complete prior to December 1, 2015. The contract is scheduled to be completed on or before September 23, 2016.

Contractor: CCS Constructors

Cost: $2,343,011.75

Vtrans Project Manager: Wendy Pelletier

Vtrans Resident Engineer: Bob Suckert

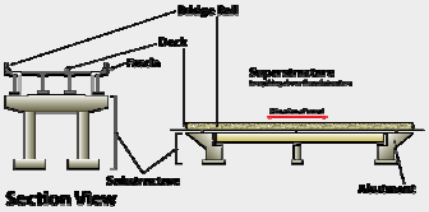


Location Map

For more detailed information, click here.

Cracks and Evidence of Leaking

Corroded Beams and Section Loss



Generic Bridge Element Description

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