



Danby

FAS Route 130 (TH 1/Brook Road), Bridge 9

PROJECT MILESTONES

Preliminary Plans	March 2016
Permitting	February 2017
Final Design	November 2017
Right-of-Way Complete	March 2018
Bid Advertisement	September 2018
Contract Award	October 2018
Target Construction Schedule	Summer 2019

Danby Bridge 9 – BF 0130(3)

Project Location: Town of Danby in Rutland County on Brook Road over the Mill Brook. The bridge is located approximately 3.1 miles west of the intersection of Brook Road and US Route 7.

The Danby Bridge 9 project will replace the existing bridge, which is in fair condition but has a substandard width, as well as poor horizontal and vertical alignment, with a new bridge on an improved alignment meeting all the current design standards. The existing bridge is a single span, rolled beam bridge constructed in 1933. Bridge 9 is 74-feet in length and has a deck and substructure that are in fair condition and beams that are in satisfactory condition but have significant rusting.

VTrans evaluated alternatives for rehabilitation or replacement of the bridge in an engineering study completed in January 2015. The study assessed the proposed design criteria for the bridge and roadway alignment, right of way impacts, hydraulics and historical and archaeological resources. While identifying resources in the location, it was discovered that there may be some potential archaeological remains in the vicinity of the site which will need to be left undisturbed during the project. Several alternatives were considered for this project including no action, deck replacement, superstructure replacement, and full bridge replacement both on and off alignment. Given the age and condition of the structure, the engineering study recommended a full bridge replacement on an improved horizontal and vertical alignment.

The new bridge will be comprised of a curved girder superstructure and a substructure with spread footings founded on bedrock. The bridge will have two nine-foot lanes with three-foot shoulders on each side, which meets Vermont State Design Standards. The exact span shall be determined out in the field by the VTrans geologist based on bedrock competency, and is expected to be approximately 80-feet in length. The new horizontal alignment will be warned for 20 mph in order to reduce impacts to archaeologically sensitive mill remains and improve safety on the curve.

It is anticipated that the bridge will be constructed in the summer of 2019. There will be an allowable 20 week road closure with temporary single lane closures expected prior to and following the bridge closure period.



Existing Bridge Elevation View



Target Construction Schedule: Construction activities will take place during the summer of 2019. There will be an allowable road closure period of up to 20 weeks with temporary single lane closures expected prior to and following the bridge closure period.

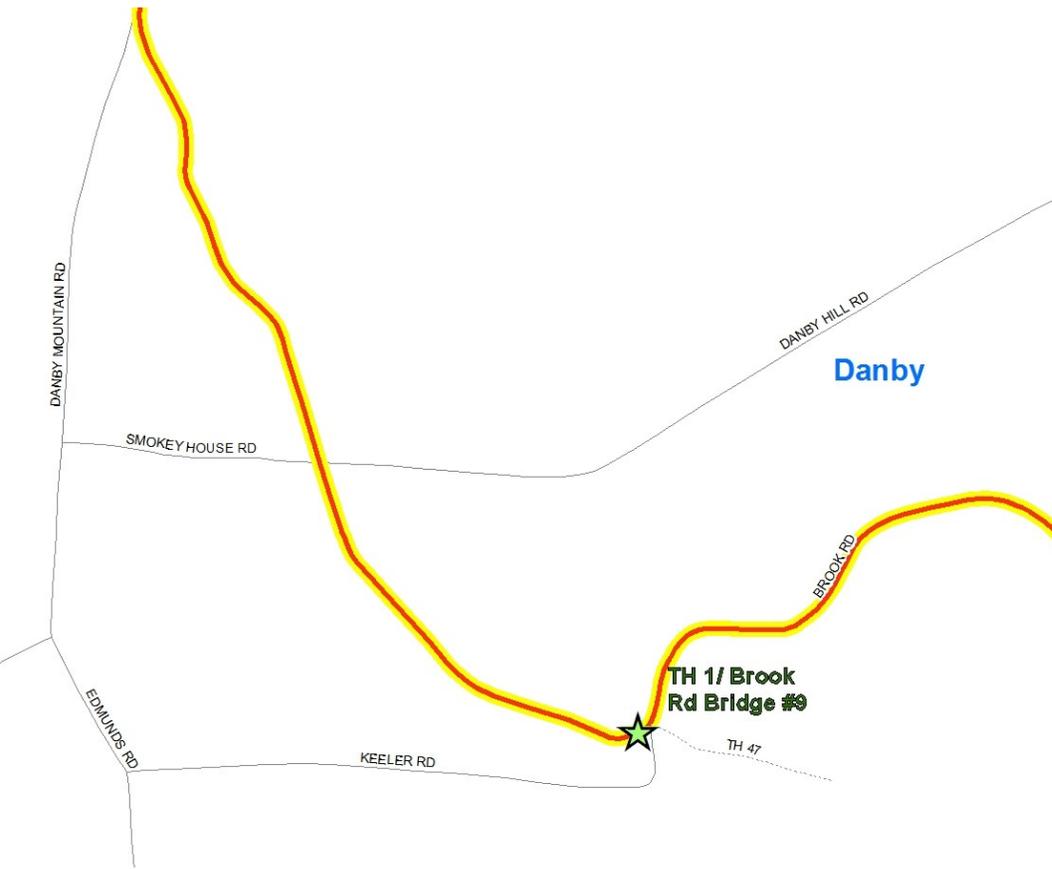
Contractor: TBD

Estimated Total Project Cost: TBD

VTrans Project Manager: Carolyn W. Carlson, P.E.

VTrans Resident Engineer: TBD

Detour Route: Traffic will be maintained on an off site detour. The Town of Danby will be responsible for choosing and signing the detour route.



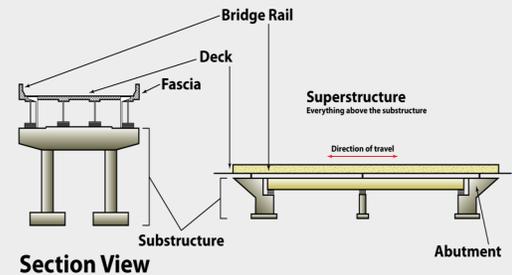
Bridge Location Map



Western Abutment and Ledge Outcropping



Deterioration of the Beams



Generic Bridge Element Description



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