



# Ludlow

VT 100

Bridge 99 over Branch Brook

## PROJECT MILESTONES

Permitting

Fall 2015

Final Design Complete

Fall 2016

Right-of-Way Complete

Not Applicable

Bid Advertisement

Winter 2017

Contract Award

Spring 2017

Target Construction Schedule

Summer 2017

## Ludlow STP DECK (39)

**Project Location: Town of Ludlow in Windsor County on VT 100 over Branch Brook. The bridge is located at the intersection of VT 100 and VT 103.**

The Ludlow STP DECK(39) project will replace the existing bridge deck. The existing structure is a single span cast-in-place deck on steel beams constructed in 1966. It is approximately 84 feet in length and 38 feet wide. The bridge deck is in 'fair' condition while the superstructure and substructure are in 'good' condition. VTrans bridge inspectors have observed areas of heavy saturation, cracking, and efflorescence in the deck which is evidence of significant concrete deterioration. The bridge is owned and maintained by the State of Vermont.

VTrans evaluated several alternatives to preserve and extend the service life of the Ludlow VT 100 Bridge 99 in an engineering study completed in February 2016. The study assessed the proposed design criteria for lane and shoulder widths, safety criteria and impacts to resources. Several alternatives were considered including, no action, concrete deck patching and a deck replacement. The study also considered a number of traffic maintenance options such as a short term bridge closure and phased construction. The engineering study recommends replacing the existing bridge deck and bridge railing through phased construction (maintaining on way alternating traffic while the bridge deck is replaced in the opposite lane). This method will minimize impacts to right-of-way, utilities, and the environment.

The new bridge deck will be constructed using prefabricated bridge components to facilitate rapid replacement. By applying this cost-effective treatment at the right time, the useful life of the structure will be extended another 30 to 40 years. This provides the largest benefit for the lowest cost when compared to the other bridge treatment alternatives.



*Deteriorated Section*

**Target Construction Schedule:** It is anticipated that this project will take place in 2017.

**Contractor:** TBD

**Estimated Total Project Cost:** TBD

**VTrans Project Manager:** Jennifer Fitch, P.E. (Project Initiation); Todd Sumner, P.E. (Design and Construction)

**VTrans Resident Engineer:** TBD

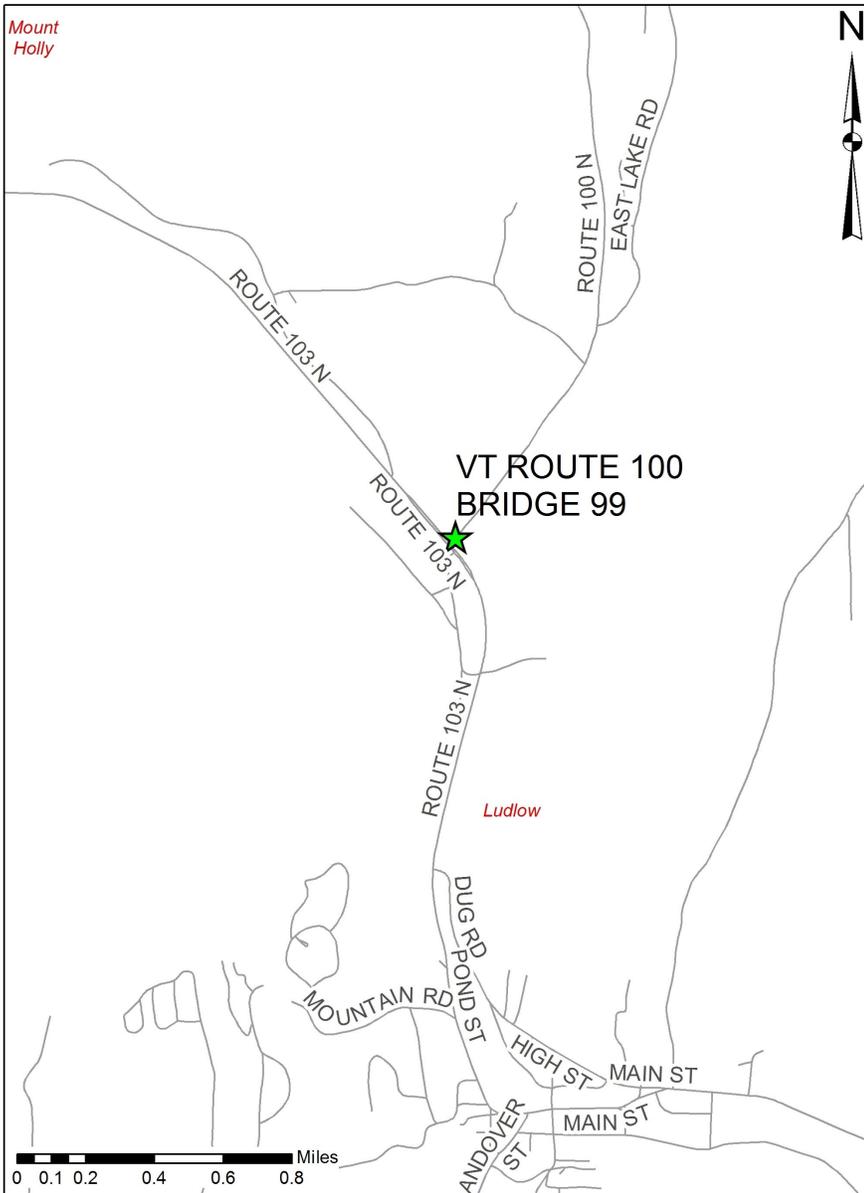
**Maintenance of Traffic:** Traffic will be maintained on alignment utilizing phased construction and alternating one way traffic.



*Deterioration in Curtain wall*



*Delamination and Spalling*



*Bridge Location*



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