

MEMO TO: Bill Woodruff
Tom Leitz

FROM: Alec Tuscany

Date: 11 June 2025

SUBJECT: Bridge #47 North Main Street
Scope of Work and Projected Costs for Engineering and Construction

The reconstruction of Bridge 47 will be done in 3 phases due to having to maintain 2 way traffic through the roundabout. Alternating one way traffic cannot be accomplished with the roundabout without a very complicated multiple signal system (if at all). Both Stantec and JA McDonald agree with the necessity of a 3 phase approach. The 3 phase approach requires removal of the existing sidewalk on the north side adjacent to the railroad trestle abutment to provide for sufficient road width to accommodate two lanes of traffic and space for bridge work.

Bridge 47 is situated at the confluence of three major VT transportation routes-VT 100, US Rte 2 and I 89. North Main Street in a Class 1 Highway. It is unlikely that VTRANS will allow this project to be accomplished without VTRANS input in some manner. Costs for construction and engineering have taken this into account. Costs could be less if this was a stand alone Town project.

Construction scope includes: Bridge Deck Replacement, Backwall Replacement, Spot Painting of Existing Steel and Steel Bridge Bearing, Minor Abutment Repairs, minor roadway approach work to transition back into existing conditions, temporary removal of existing sidewalk on the north side of North Main Street adjacent to the railroad abutment and at completion of the bridge work construction of new sidewalk. Limits of deck replacement are anticipated to encompass from the first interior girder on the downstream end, to the construction joint with the Union Street superstructure on the upstream end. Limits to be confirmed based on review of the construction that was completed as part of the sidewalk work during the round-a-bout project.

Construction costs assume a 20% increase from 2021 construction cost estimate per input from JA McDonald. If this is solely a VTRANS project assume another 10%. Engineering costs assume plan development and construction phase is similar to VTRANS Municipal Assistance Section managed projects.

Cost Estimate

Construction	\$669,120
Engineering	<u>\$105,000</u>
TOTAL	\$774,120