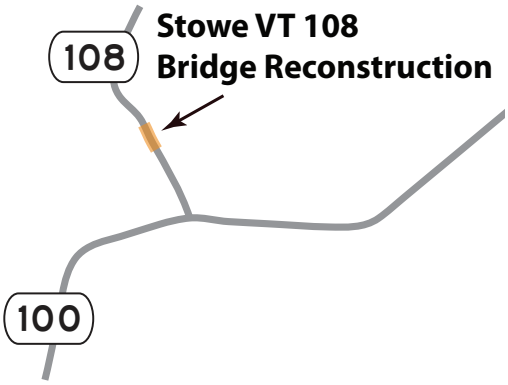


Stowe VT 108 Bridge Reconstruction

Project Location: The VT 108 Bridge is located on VT 108 approximately 350 feet north of the intersection of VT 100 and VT 108 in Stowe.

Project Objective: The VT 108 Bridge Project will replace an aging and failing structure located in downtown Stowe. The new bridge will be constructed utilizing Accelerated Bridge Construction (ABC) methods to reduce the impacts to the travelling public and local businesses.

Existing Conditions: The existing bridge is approximately 30 ft wide with 12 foot travel lanes, shoulders and a covered walkway. The bridge has deteriorated to a point where wingwalls have rotated away from abutments and the pier has shown signs of cracking and spalling concrete. These poor conditions triggered the need for the replacement of this structure.

Project Overview: The new bridge will have a concrete deck on new steel plate girders and the same footprint as the existing bridge. The bridge will have an overall width of 30 ft 2 in. which includes two 12 ft wide travel lanes plus shoulders with new concrete and steel bridge railing on the west side. The existing 5 ft covered walkway will be replaced in-kind with new timber and lighting.

The project also includes the complete replacement of the abutments with new concrete abutments on steel piles. This project will utilize aspects of Accelerated Bridge Construction (ABC) in the abutments and approach slabs to reduce the length of the road closure. These precast abutments and approach slabs will be built at an offsite location and shipped to the bridge site where they can quickly be lifted into place. With just a few ABC bridge components the construction time will be reduced from months down to a matter of weeks.

Along with the bridge, there will be some minor drainage, roadway and sidewalk improvements within the project limits. New catch basins and drainage pipes will be installed along with concrete sidewalk and granite curbing.

The water line that is currently on the bridge will be re-routed during construction and replaced with a new line on the new bridge.

TARGET CONSTRUCTION SCHEDULE

- Advertised
  August 2014
- Utilities
  Mid-November 2014
- Construction
  Spring 2015
- Completion
  August 2015

CONTRACTOR

- CSS Contractors

CONTACT

- Carolyn Carlson

  Project Manager
  VTrans
  Carolyn.Carlson@state.vt.us

ESTIMATED COST

- $3,060,000 (Includes Construction Engineering and Contingencies)

The project was advertised in August 2014 and construction work is expected to begin in late October. In Fall 2014, the contractor will be allowed to close the bridge for three consecutive days. This will allow the contractor to install the temporary water line and staging on the pier. A detour will be provided during the closure.

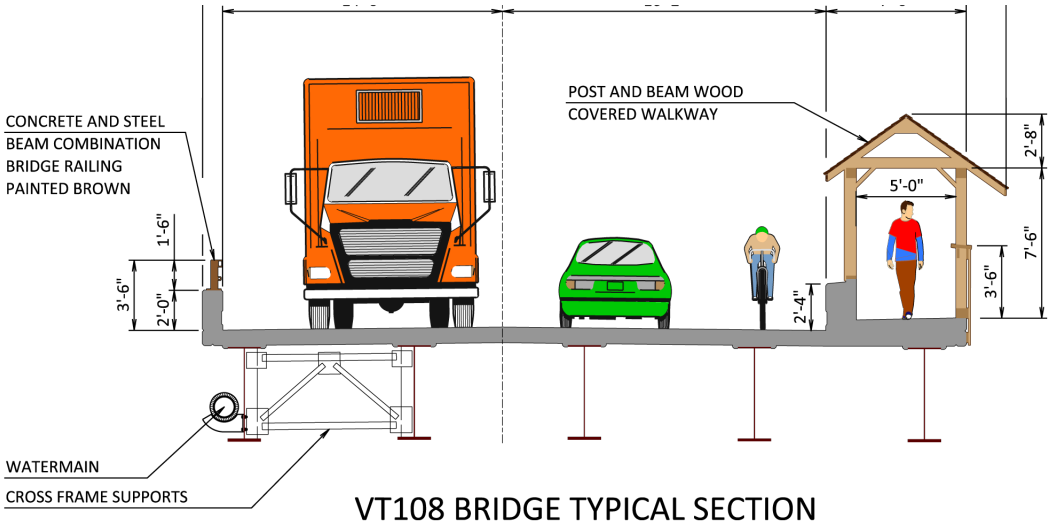
Full construction of the new bridge will occur in the spring of 2015. The bridge will be closed to through traffic for a 7 week period starting in early April and ending in late May. Traffic will be detoured around the project using the same detour provided for in the November 2014 period, however, a temporary light signal will be installed at the intersection of VT 100 and Pucker Street (near Shaws).

After the bridge has reopened to two way traffic, there should only be intermittent single lane closures for construction while the rest of the drainage, roadway, walkway and sidewalk work is completed.

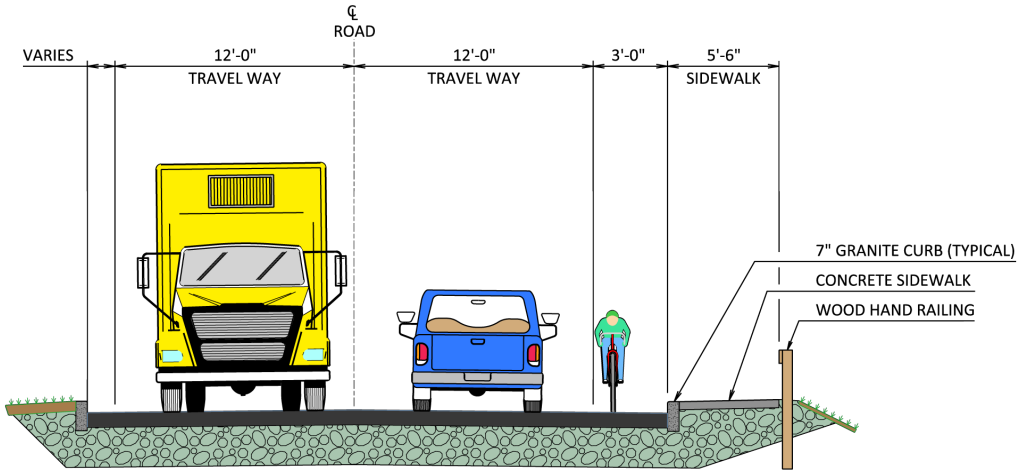
Project completion is scheduled for August 28, 2015.

Along with the bridge, there will be some minor drainage, roadway and sidewalk improvements within the project limits.

Artist's rendering of the new bridge.



VT108 BRIDGE TYPICAL SECTION



VT108 ROADWAY TYPICAL SECTION

LEARN MORE

- http://watp.vtransprojects.vermont.gov/
- Please refer to the project website for weekly construction updates. Register on the website to receive construction updates by email.

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