



Fairfield

South Road TH1 Bridge 14

Fairfield BRF 0281(25)

Project Location: Town of Fairfield in Franklin County on TH 1 (South Road) over Fairfield River. The bridge is located approximately 2.5 miles south of the intersection with VT 36.

The Fairfield TH1 Bridge 14 project will replace the existing bridge, which has substandard bridge rail, inadequate hydraulic capacity, and is in poor condition, with a new bridge that meets current design standards. The existing Fairfield TH1 Bridge 14 is a single span, two lane structure constructed in 1949. The bridge is 23-feet in length and 23-feet wide. The bridge superstructure (deck and beams) components are in poor condition. There is occasional overtopping of the bridge and roadway with significant traffic delays. In addition, the existing bridge structure is considered scour critical.

VTrans evaluated alternatives for replacement of the Fairfield TH1 Bridge 14 in an engineering study completed in September 2012. The study assessed 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, preventative maintenance, and full bridge replacement. Given the age and condition of the structure, the engineering study recommended full bridge replacement using Accelerated Bridge Construction (ABC) methods with an offsite detour.

The new bridge will be a Precast Prestressed Concrete Solid Slab Bridge, which has a relatively short construction period and comparatively low construction and maintenance costs. The new structure will be 44-feet long and 24-feet wide including two 9-foot travel lanes and two 3-foot shoulders. The new bridge will feature fascia mounted heavy duty steel beam bridge rail.

The bridge will be constructed with ABC methods, which will expedite construction and reduce disturbance to the public. There will be an allowable 28 day road closure with temporary single lane closures prior to and following the bridge closure period.

PROJECT MILESTONES

- Preliminary Plans
Summer 2013
- Permitting
Fall 2013
- Final Design
Spring 2014
- Right-of-Way Complete
Non required
- Bid Advertisement
Late Summer 2014
- Contract Award
Fall 2014
- Target Construction Schedule
Summer 2015





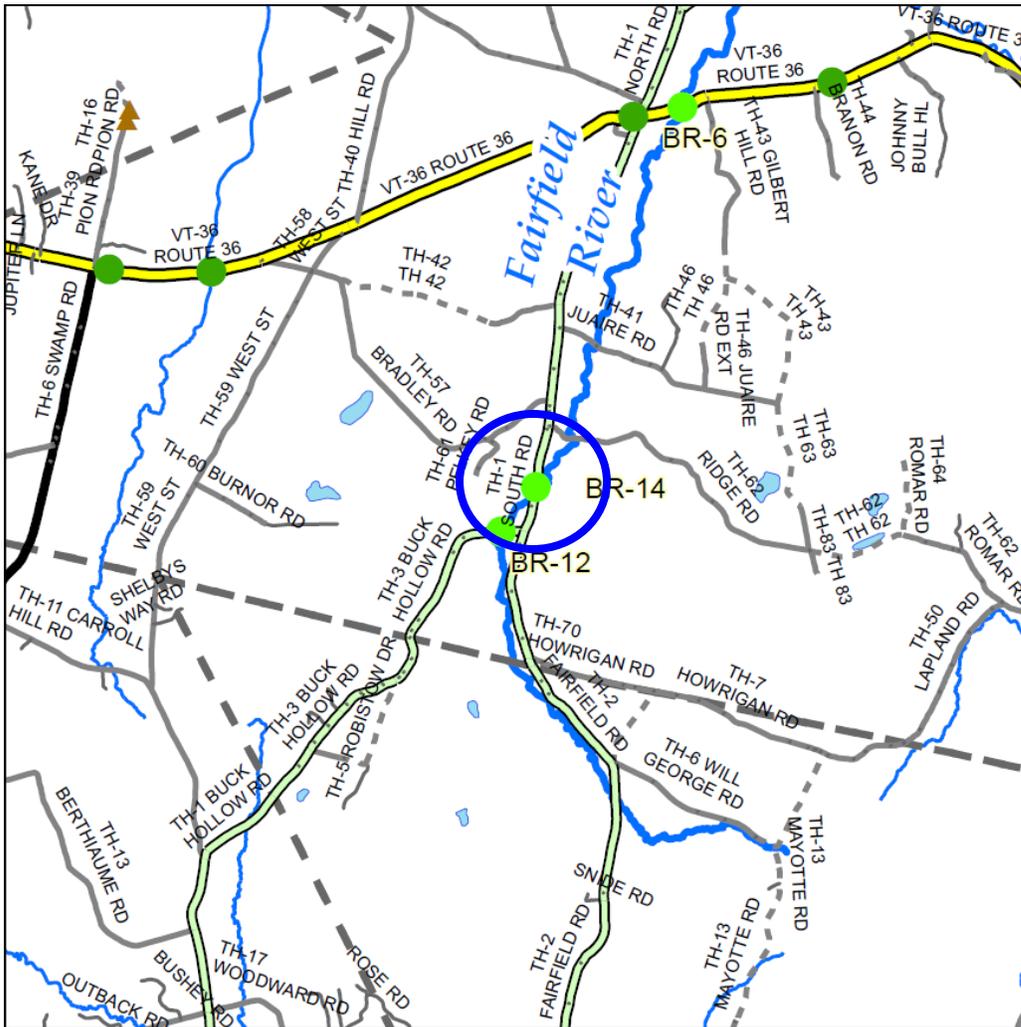
Target Construction Schedule: Construction activities will take place beginning in late June 2015. The allowable bridge closure period is one consecutive 28 day period between June 22, 2015 through August 24, 2015. The contract completion date is September 25, 2015.

Contractor: A.L. St. Onge

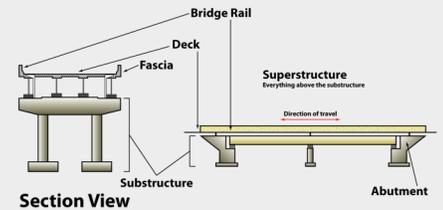
Low Bid: \$1,150,384.22 (includes Bridge 46 on Elm Brook Rd.)

VTrans Project Manager: Rob Young, P.E.

Detour Route: The detour route will be the responsibility of the Town of Fairfield.



Bridge Location Map



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