



## VT ROUTE 114 BRIDGE PROJECT, EAST BURKE VILLAGE (BRIDGE 13)

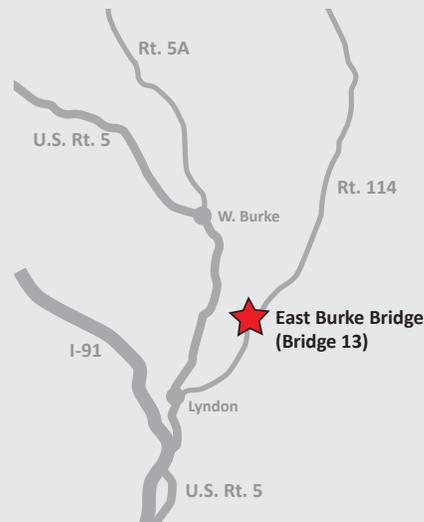
**Project Location:** Vermont Route 114 over Dish Mill Brook, East Burke village in Caledonia County.

**Project Purpose:** The purpose of this project is to replace the VT 114 bridge over Dish Mill Brook in the village of East Burke, Vermont. The bridge will be re-built as an Accelerated Bridge Program project by the Vermont Agency of Transportation.

Construction will start in April 2015. The bridge will be closed for three weeks – May 26 to June 15 – to remove the old bridge and install the new bridge. Traffic will periodically be reduced to one lane during daytime hours in the weeks before and after closure. The project will be completed by mid-August, 2015.

The existing single span bridge, built in 1925, is narrow and its abutments show significant scour – 90 years of swiftly moving brook water has washed away sediment from around the concrete bridge supports. The 28-foot wide brook has to pass through a channel that is some 6-7 feet narrower at the bridge.

During periods of high water Dish Mill Brook sometimes tops over the bridge and roadway, resulting in long vehicle delays. The opening size of the new bridge over Dish Mill Brook will be increased from about 21 feet to 36 feet along the stream, easing the flow of water passing under the bridge. The design will reduce hydraulic conditions that cause scouring and overtopping.



### PROJECT MILESTONES

#### Project Planning & Design

2013 & 2014

#### Project Advertised

November 2014

#### Contractor Selected

December 2014

#### Construction Begins

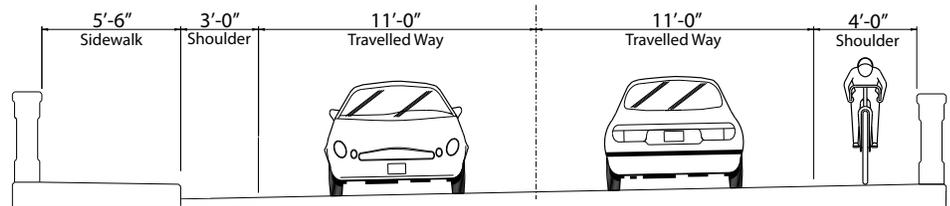
April 2015

#### Bridge Closed

May 26 to June 15, 2015

#### Project Completed

August 14, 2015



*The new bridge will provide more room for all travelers – drivers, bicyclists and pedestrians.*

The new, 56-foot single span bridge will be about 9 feet wider than the existing bridge, though it will continue to have the same design speed, 30 mph. The width of the present bridge, from curb to curb, is only 20.4 feet, with a 4-foot sidewalk. The replacement bridge will have wider, 11-foot travel lanes, 3 and 4-foot shoulders and a 5.5-foot sidewalk. The roadway approaching the bridge will be slightly widened and shifted on the south side to accommodate the new bridge.

Currently 3,600 vehicles cross the bridge daily. A wider sidewalk and shoulders will make the bridge more comfortable for pedestrians and bicyclists – an important consideration with several businesses, including a bicycle rental store located in the nearby village.



## WHY ACCELERATED BRIDGE CONSTRUCTION?

When the East Burke bridge replacement project was initially planned, VTTrans envisioned a two-year project, with a temporary bridge installed. After careful study that included discussion with local officials, residents and businesses, VTTrans determined that the benefits of having free flow of traffic during construction were outweighed by the impacts.

A temporary bridge would limit or eliminate access to Belden Hill Road from VT Route 114, affecting businesses and residents. Impacts to the private property at the southeast corner of the bridge would be extensive. The temporary bridge would have to accommodate a new septic tank and leach field during construction. The property owner's vegetable and flower gardens and retaining walls would also be impacted.

## REPLACING THE BRIDGE IN ONE CONSTRUCTION SEASON

In recent years, VTTrans has had great success in replacing bridges quickly using new construction methods. The East Burke Bridge will be made of pre-cast concrete pieces –

abutments, bridge deck – that are built off-site and then installed during a brief closure period. Construction of the bridge will take about five months.

## DETOUR ROUTES

**Directions from north:** From I-91 Exit 25 take VT 16 to VT 5A, 8 miles. Turn left (north) onto VT 5A, 8 miles. At junction of 5A and VT 105 turn right towards East Charleston, 10 miles. At junction of VT 105 and VT 114 (south) turn right, 16 miles to Bridge 13, 16 miles. Mileage to Bridge 13 from Exit 25 with no detour, 22.5 miles.

**Extra mileage from Exit 25 with detour, 20 miles.**

**Directions from south:** From I-91 Exit 24 follow VT 122 east. At junction of US 5, VT 114 and VT 122 turn left onto Route 5 to VT 5A, 7 miles. Proceed on 5A for 19 miles to VT 105. At junction of 5A and VT 105 turn right towards East Charleston, 10 miles. At junction of VT 105 and VT 114 (south) turn right, 16 miles to Bridge 13, 16 miles. Mileage from junction of US 5, VT 114 and VT 122 to Bridge 13 with no detour, 4.6 miles. **Extra mileage with detour, 48.5 miles.**

