



Vermont Better Roads Grant Program Application

Please complete one application per category and/or project you are applying for. You may make copies of the application for multiple applications per category and/or multiple categories.

Please check the Category you are applying for:

- B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation Retrofit for both gravel and paved roads
- C. Correction of a Stream Bank or Slope Related Problem
- D. Structure/culvert upgrades

Town/Organization: TOWN OF WHITINGHAM

Project Name: Route 100 Bank Stabilization

Road Name: VT ROUTE 100 TH #: _____ Structure # (if applicable): _____

Road Type: Paved Curbed

Class 1

Watershed: Main Branch of the North River

Please provide a thorough description of the problem (ex. Roadway has steep slope with no ditch which is causing roadway erosion):

The retaining wall along a portion of the stream in front of 2964 VT Route 100 has been rapidly collapsing. Portions of the repair work necessary are the responsibility of VTTrans. However a portion of the wall that is on Town of Whitingham property needs extensive repair work as well.

Description of Project and how you plan to complete the work (ex. Stone line 500' of ditch by reshaping ditch and stone lining, working from the top of the project down to the bottom):

Stone line approximately 100 feet to river bank along Town property off VT Route 100. Rockwell will be built using rented equipment and Town equipment.

Expected Effects (+ & -) on water quality (ex. Erosion will be eliminated by placing the stone ditch):

Erosion will be eliminated by replacing the stone retaining wall.



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water): 0-50'

Progress to Date:

Several meetings have been held between Town Officials, VTTrans Officials, Windham Regional Commission staff and ANR official.

Is there an emergency reason this project must be completed quickly? If yes, please explain:

Yes, if a significant weather event occurs before these repairs are made the stability of VT Route 100 will be affected as well as the possibility of dislodging the Town sewer lines which will create an environmental hazard in the river as well as a significant detour for the many users of VT Route 100.

Has this project been identified through a municipal road inventory, capital budget plan, tactical basin plan, culvert inventory, or other management plan? If yes, please list which.

Yes: Deerfield and adjacent Connecticut River Tactical Basin Plan (4/2014)

No

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTTrans District Technical staff, Basin Planner etc.):
ANR Rivers Program - Joshua Carvajal, River Management Engineer
VTTrans staff - Chris Taft, Craig Motasi and Rob Faley
Windham Regional Commission - Matt Mann

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).

The project is located in the state Right of Way and extends onto Town property.

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).

VTTrans will repair their portion of the project and the Town road crew will complete the Town portion of the project.



Describe how the grant funds will be spent and/or attach a project budget:
 See attached budget.

How do you plan to meet the required 20% match on this grant?:
 We will meet the 20% match using Town employees and equipment.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 15,180.00

Estimated Total Project Cost (including 20% local match): \$ 18,975.00

Estimated Completion Date: 08/15/2016

REQUIRED ATTACHMENTS:

- Itemized Cost Estimate (labor, equipment, materials)
(For assistance, call Better Backroads at 802-828-4585)
- Project Location Map
(Please show location of affected water; 1:12,000 USGS map, if possible)
- Sketch of proposed erosion control measures, including:
 - Distances (ft.)
 - Estimate of waste & borrow quantities
 - Approx. location of town/other right-of-way and/or property lines
- Photo(s) of the project area.
- Agreement for Entry and/or Deed of Easement (if project is outside Town ROW).
- If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer.
- Other appropriate supporting documents.

By signing this application I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT: (Must be Town Administrator/Manager or Select Board Chair)

Name: 

Title: Selectboard Vice Chair

**Jacksonville Village,
Town of Whitingham**

**Portion of
Retaining Wall on
Town Property**

VT100

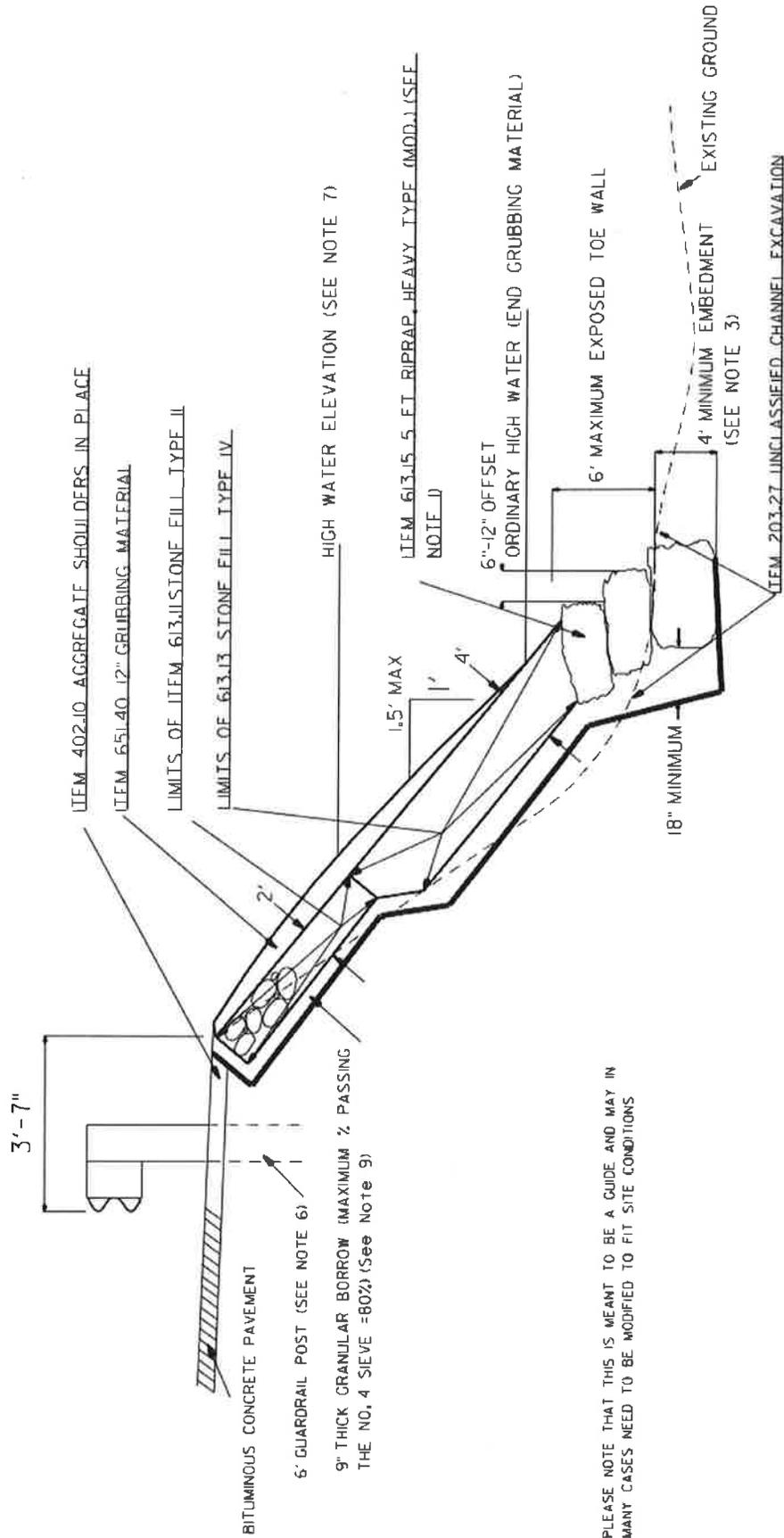
VT100

VT112



Standard Practices

STONE FILL SLOPE PROTECTION WITH STONE TOE WALL



PLEASE NOTE THAT THIS IS MEANT TO BE A GUIDE AND MAY IN MANY CASES NEED TO BE MODIFIED TO FIT SITE CONDITIONS



Vermont Department of Environmental Conservation
 Watershed Management Division
 Rutland Regional Office
 88 Merchants Row, Suite 430 Asa Bloomer Building
 Rutland, VT 05701-5903
www.watershedmanagement.vt.gov

Agency of Natural Resources

[cell] 802-490-6163
 [fax] 802-786-5915
 [email] joshua.carvajal@vermont.gov

AUTHORIZATION TO CONDUCT NEXT FLOOD PROTECTIVE MEASURES

Pursuant to Section F of the Vermont Stream Alteration General Permit

Project Number: **SA-07-001-2016**

Project Lat/Lon: **42.7983, -72.8225**

Applicant Name: **Gib Zboray – Select Board**

Phone: **(802) 368-7286**

Mailing Address: **Town of Whitingham PO Box 560 Whitingham, VT 05342**

Email: whitingham1@yahoo.com

Project Location: **Along Route 100, next to the Town offices and south of crossings on the East Branch of North River**

The Secretary of the Vermont Agency of Natural Resources (VT ANR) has determined that:

1. This project authorizes **the removal of portions of the stone retaining wall that continues to fall into the stream channel and placement of riprap stone to protect the eroding bank. Displaced stones will be removed from the stream channel and the exposed stream bank sloped back prior to the placement of riprap armoring.**
2. The proposed activity is eligible for coverage under the VT ANR Stream Alteration General Permit (SAGP) – Next Flood Protective Measures.
3. The proposed activity will meet the terms and conditions of Section F of the General Permit provided:
 - a) The project will be completed and approved as discussed and approved by the VT ANR Rivers Program.
 - b) The project is proportional to the threat and conditioned to cease when the threat to life or to improved property has ended.
 - c) The project will not result in a threat to life, public health or safety.
 - d) The project will meet the standards detailed in subsection E.2.1 and E.2.2 of the General Permit.
 - e) The project will meet Stream Alteration Standards to the greatest extent possible.
 - f) A pre-construction meeting is held between the contractor, owner/applicant, and the ANR River Management Engineer and the RME is notified by phone, text or email when construction begins and prior to being completed.

Coordination with Vtrans and adjacent property owners for access during construction is the responsibility of the applicant.

If there are any changes in the project plan or deviation in construction from the approved plan, the Permittee must notify the River Management Engineer immediately via phone (802) 490-6163 or email joshua.carvaial@vermont.gov.

If the project is constructed as described, as shown on the above referenced approved plans and according to the above conditions, there is no reason to expect any violation of Vermont Water Quality Standards.

Signed this 1 st day of April, 2016

This permit expires December 31, 2016.

David K. Mears, Commissioner
 Department of Environmental Conservation

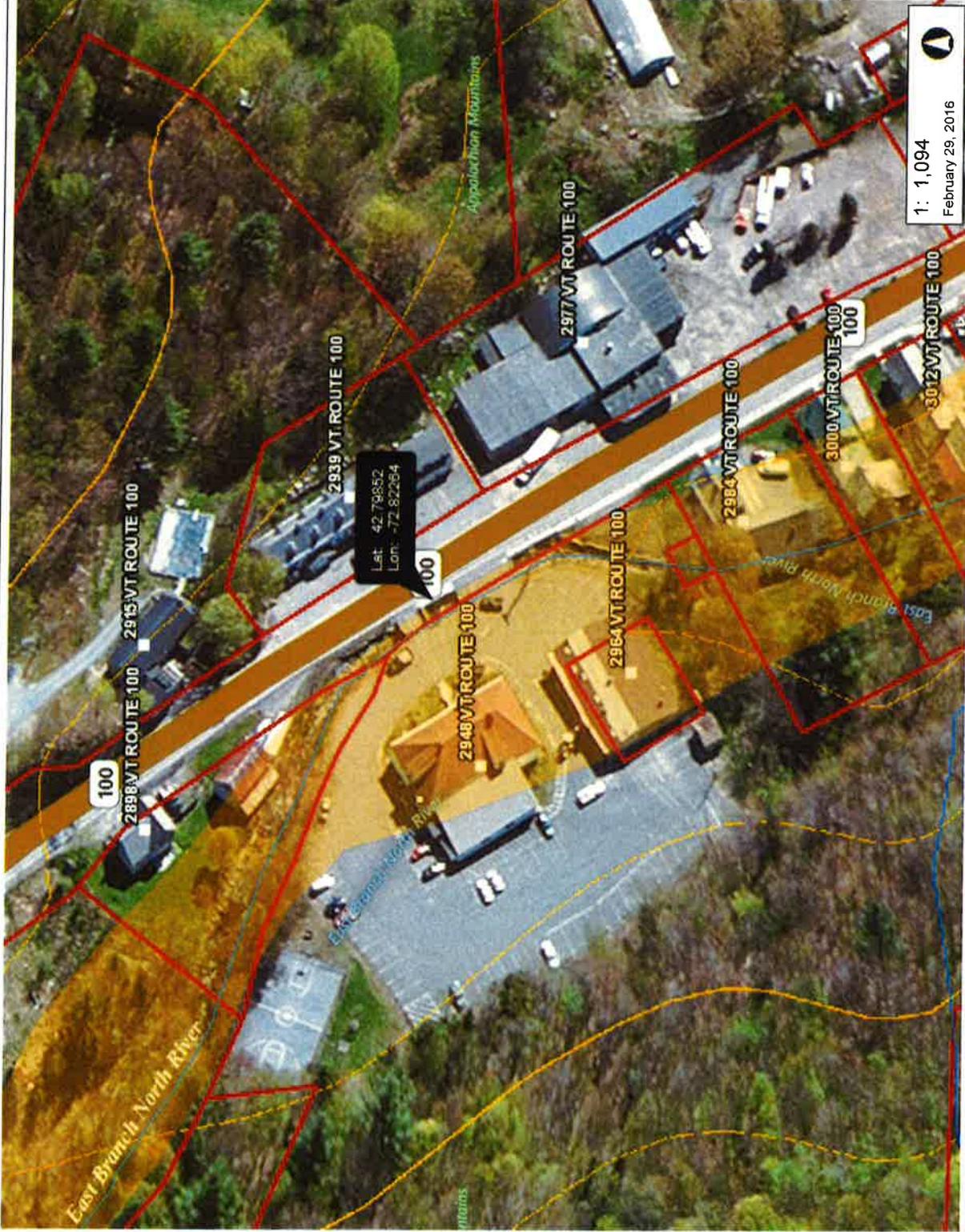
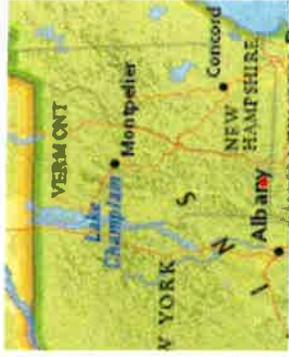
by: 
 Josh Carvajal, P.E., CFM, River Management Engineer



Jacksonville Town Offices

Vermont Agency of Natural Resources

vermont.gov



1: 1,094
February 29, 2016

56.0 0 28.00 56.0 Meters
1" = 91 Ft 1cm = 11 Meters
WGS_1984_Web_Mercator_Auxiliary_Sphere
© Vermont Agency of Natural Resources
THIS MAP IS NOT TO BE USED FOR NAVIGATION
DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

LEGEND

- Wetlands - VSWI
 - Class 1 Wetland
 - Class 2 Wetland
- Wetlands Advisory Layer
- DFIRM Floodways
- DFIRM Preliminary Floodways
- Special Flood Hazard Areas (A Counties)
 - AE (1-percent annual chance flood)
 - A (1-percent annual chance flood)
 - AO (1-percent annual chance zone feet)
 - 0.2-percent annual chance flood ha
- Special Flood Hazard Areas (F DFIRM)
 - AE (1-percent annual chance flood)
 - A (1-percent annual chance flood)
 - AO (1-percent annual chance zone feet)
 - 0.2-percent annual chance flood ha
- Buildings (E911)
- VTRANS State and Town Long
- VTRANS State Short Structure
- Town Bridge
- Town Culvert
- Waterbody
- Stream
- Parcels (where available)
- Town Boundary

NOTES

Map created using ANR's Natural Resources Atlas









April 10, 2016

Gig Zboray
Town of Whitingham
Selectboard Office
PO Box 560
Whitingham, VT 05342

Dear Gig:

I am pleased to provide a letter of support for the Town of Whitingham's application submission for a Category C Better Roads grant. After meeting with the Town, VTrans and ANR staff, on-site, to assess the failed section of the retaining wall along this stretch of the North River; it was determined action needs to occur in the near term. For Category C, the stabilizing this retaining wall, will contribute to the improvement of water quality in North River; as well as stabilized the river bank. This application conforms to the policies found in the Windham Regional Plan (September 2014):

- 1. Maintain and restore the chemical, biological, and physical quality of the region's surface water per the objective in State water regulations.*
- 2. Improve existing roads and design culverts and bridges to carry a 50-year flood event without damage.*

Please contact me if you have any questions.

Sincerely,

Matt Mann

Matt Mann
Senior Transportation Planner