



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: Killington

Project Name: Ditch Reconstruction and Erosion Controls

Road Name: Trailview and Roundabout Roads TH #: 77/112 Structure # (if applicable): _____

Road Type: Unpaved Uncurbed

Class 3

Watershed: Connecticut River

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

Roadway has steep grades with a minimal ditches and experiences erosion and washouts. Ditches have alignment issues due to ledge outcroppings etc. High intensity storms cause storm water to leave ditch line and washout roadway.

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):

We intend to excavate the ditches to a minimum depth of 2'. Then, we will hire the hammer to breakup ledge outcroppings to ensure a continuous slope and alignment. Finally, we will remove the debris and place a 1' thick stone lining of the entire ditch.

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

We expect to dramatically reduce the erosion and debris transfer into the waterways. We have seen success where this ditch reconstruction process has been employed along some of our recently reconstructed paved roads. In addition, this project is located at the top of the watershed so we may continue our erosion prevention projects throughout the watershed while not having sediment filled runoff depositing material in other new projects. We also expect the storm water velocity to be reduced by



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 250'+



Progress to Date:
None in this area

Is there an emergency reason this project must be completed quickly? If yes, please explain:
Yes, due to the continuing washout in roadways

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: Capital Budget and Inventory

No

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTrans District Technical staff, Basin Planner etc.):
We have consulted with Enman Kesselring Consulting Engineers regarding ditch lining details and flood resiliency regarding culvert sizing and stormwater concentration and velocities.

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

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).
Yes plus the rental of an operator with the hammer



Describe how the grant funds will be spent and/or attach a project budget:
Project Budget Attached

How do you plan to meet the required 20% match on this grant?:
Capital Funds for Gravel Roads

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 20,000.00

Estimated Total Project Cost (including 20% local match): \$ 32,746.00

Estimated Completion Date: 11/01/2016

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: *Richard S. Horn*

Title: *INTERIM TOWN MANAGER*

DITCH LINING

ROAD	MILES	LINEAL FEET	SQUARE FEET	CUBIC YARDS	COST/YARD	COST @ \$75/TON
Trailview Road	0.44	2323.2	18585.6	688.36	\$ 12.70	\$ 8,742.12
Roudabout Road	0.73	3854.4	30835.2	1142.04	\$ 12.70	\$ 14,503.96
Excavator Rental - Month	1				\$ 5,000.00	\$ 5,000.00
Hammer w/operator Rental - Day	3				\$ 1,500.00	\$ 4,500.00
TOTAL						\$ 32,746.08

