



# FY17 Vermont Better Roads Grant Application

Please complete this page ONCE and return with your Grant Category Application(s)

Town/Organization: Town of Moretown Contact Person(s): Martin Cameron

Address: 1320 Rt. 100 B

Street Address Town Zip  
Email: snowman@gmavt.net Phone: ( 802 ) 496 - 4141

DUNS #: 35985290 Fiscal Year End Month (MM): 12

Accounting System:  Automated  Manual  Combination

Please use the suggested documentation checklist below to ensure that all of the relevant items regarding your application have been included.

- Grant application cover sheet (Only submit one)
- Grant application form (One per category/project)
- Itemized Cost estimate for labor, equipment, and materials (see enclosed Cost Estimate Worksheet). If applicable, please break down funding by source (i.e. different grant sources)
- Project Location Map (please show location of affected water)
- Sketch of proposed erosion control measures or other management practices, including distances in feet  
Also show approximate location of town/other right-of-way and/or property lines
- Photo(s) of the project area
- Letters of Support (RPC, VTrans District Technical Staff, ANR Rivers and Streams Engineers, etc.)
- If Category C River/Road Conflict or Category D River/Stream Structure or Culvert, you must attach ANR/ACOE consultation



# 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 Moretown

Project Name: Williams Road

Road Name: Williams Road TH #: 55 Structure # (if applicable): \_\_\_\_\_

Road Type: Unpaved Uncurbed

Class 3

Watershed: Unnamed Stream (Cox Brook to Dog River)

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

Roadway has a moderate to steep slope with very little ditching; What ditch line that does exists repeatedly erodes both ditch line and Road. Opposite side of roadway has obstructions forcing water to remain on the roadway. All water drains directly into nearby stream.

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 plan on stone lining 650' of ditch line by reshaping ditch line and lining with erosion stone (6-12"). Opposite side of roadway will have shoulder/berm removed to allow water to exit the roadway. 1 1/2" Granite Plant mix will be used to resurface the road to allow for proper crown when grading.

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

Erosion will be eliminated in ditch line, and erosion/sediment issues will be greatly reduced with the resurfacing of the roadway. As the Granite Plant mix will produce a much more compacted roadway and allow for proper crowning of the roadway.



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

How do you plan to meet the required 20% match on this grant?:  
Work in kind (Man Hours and Equipment)

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 15,323.00  
Estimated Total Project Cost (Including 20% local match): \$ 20,583.00  
Estimated Completion Date: 10/01/2016

**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: [Signature]

Title: Select Board Chair



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

Progress to Date:

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

No. But due to the amount of sediment reaching the stream and the inability to keep a proper crown in the road due to highly erodible material. This is a high priority project for the Town.

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: \_\_\_\_\_

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.):

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).

Mostly. The Road Department will do the majority of the work. The exception being trucking. We plan to hire trucks to haul the materials.

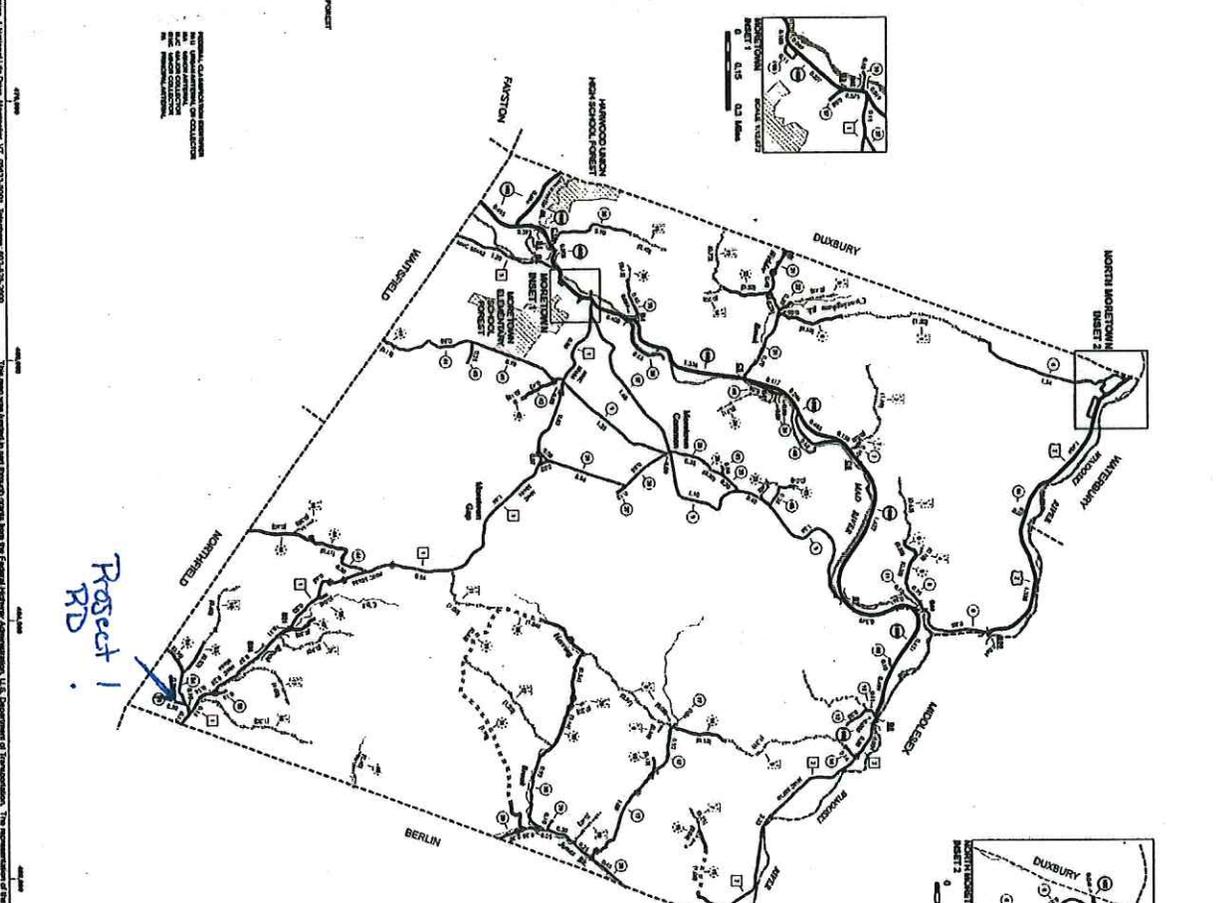




CLASS	LENGTH IN FEET	AREA
1	4,48	0.80
2	6,17	0.80
3	1,20	0.80
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TOTAL	2,175	51.7

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TOTAL	2,175	51.7

- INTERESTING OR UNIQUE FEATURES
- US ROUTE
- STATE ROUTE
- LOCAL ROAD
- LOCAL TRAIL
- UNPAVED ROAD
- PAVED ROAD
- PAVED ROAD UNDER CONSTRUCTION
- PAVED ROAD TO BE CONSTRUCTED
- PAVED ROAD TO BE DEMOLISHED
- PAVED ROAD TO BE RECONSTRUCTED
- PAVED ROAD TO BE WIDENED
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**VERMONT GENERAL HIGHWAY MAP**  
**Town of Moretown**  
 WASHINGTON COUNTY  
 Transportation District #6

Prepared by the  
 Vermont Agency of Transportation  
 Division of Policy, Planning and Intermodal Development  
 U.S. Department of Transportation  
 Federal Highway Administration

SCALE 1:51,680

0 0.5 1 1.5 2 Miles  
 0 0.5 1 1.5 2 Kilometers

Project 1 RD

This map was prepared by the Vermont Agency of Transportation, Division of Policy, Planning and Intermodal Development, in cooperation with the U.S. Department of Transportation, Federal Highway Administration. The map is intended to provide information and does not constitute a contract or warranty of any kind. The map is provided as a public service and is not intended to be used for any other purpose. The map is the property of the Vermont Agency of Transportation and is loaned to you for your use only. It is to be returned to the Vermont Agency of Transportation when you are finished with it. The map is not to be reproduced or distributed without the written permission of the Vermont Agency of Transportation.

BARN

Utility Pole

20'

120 Williams Rd.



TOWN OF MORETOWN WILLIAM'S Rd. PROJECT

LimB BRUSH TRIMMING  
16 MAPLE  
16 MAPLE

DitchLine

17'

15'

16'

18'

18'

19'

WILLIAM'S ROAD

Remove Shoulder Along Roadway TO ALLOW for Proper drainage

Re-Surface Roadway with 12" of 1.5" Granite Plantmix

RE-SHAPE BANK'S SLOPES TO 2:1 SLOPE

BANK SLOPE

BANK SLOPE

DitchLine

DitchLine

DitchLine

Excavate ditchline To ALLOW implementation of a Stone Lined ditch in Accordance with Better Back Roads Standards Thus eliminating Sediment discharge into Nearby Stream.

40'

UNAMED STREAM

UNAMED STREAM

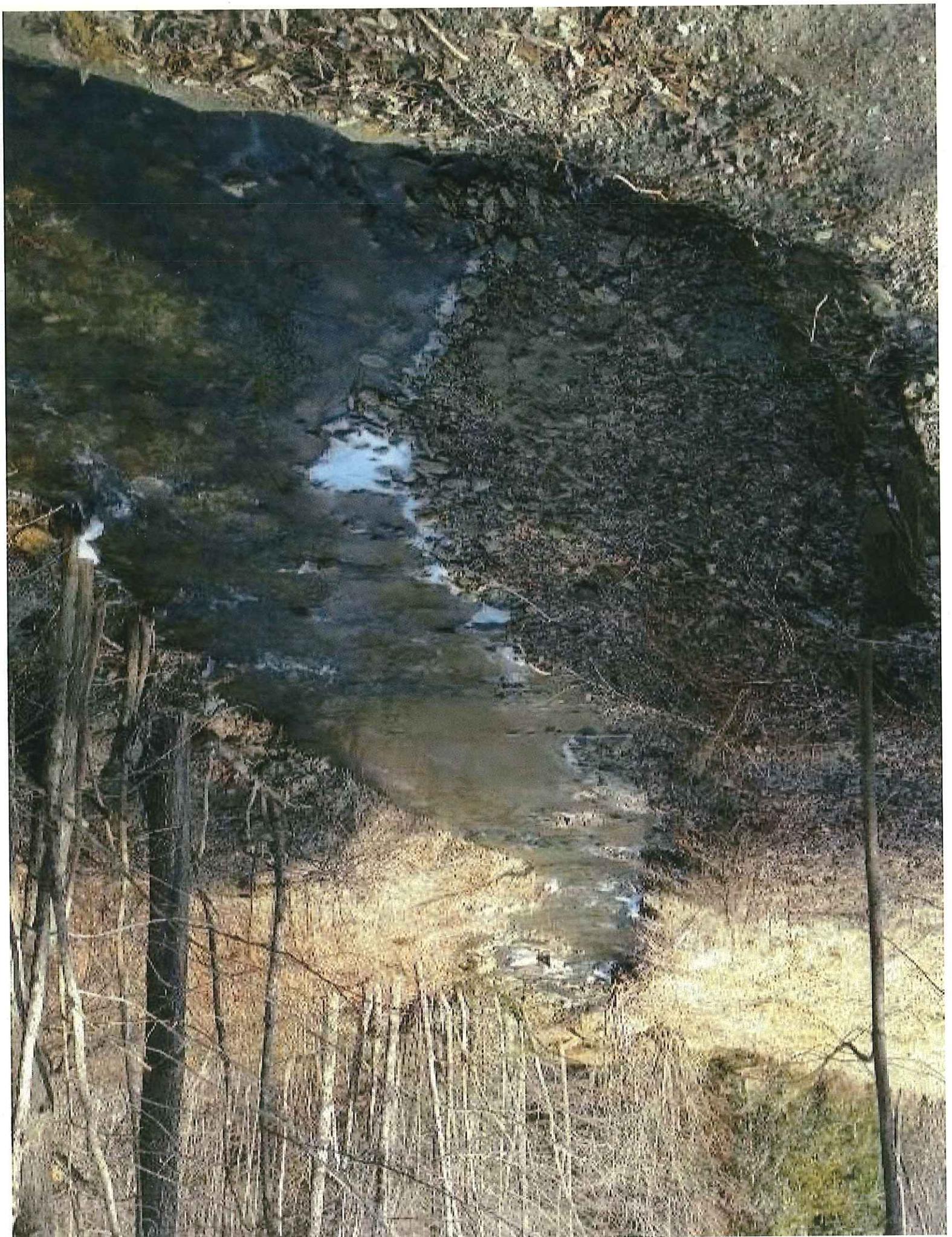
5' TANK Removed

WENDS

19'









Project  
START  
POINT

WILLIAMS RD

UNAMED  
STREAM

UNAMED  
STREAM

MCGIBBON'S ROAD

58  
McGibbons

6.6<sup>M</sup> To Moretown Village →

MORETOWN MTN. Rd.

TO TOWN LINE: 1M

COX BROOK

# William's Road Project

## Materials

6"-12" erosion stone- \$12.00yd x 217yards = \$2,604  
6"-12" erosion stone-trucking(2 hrs round trip) \$76 hr tri-axle(hired truck) = \$2,128  
1.5" Northeast plant mix- \$12.21yd x 433 yards = \$5,287  
1.5" Northeast plant mix – trucking(2 hrs round trip) \$76 hr tri-axle(hired truck) = \$4,104  
Nonwoven fabric- 2 rolls x \$300.00 a roll = \$600.00  
Straw matting- 10 rolls x \$38.00 a roll = \$380  
Grass seed- 2 bags x \$110 a bag = \$220

Total materials and trucking = \$15,323

## Labor and Equipment

Excavator with operator- \$59.00hr x 40 hours = \$2360  
Tandem truck with operator- \$80.00hr x 20 hours = \$1,600  
Grader with operator- \$100.00hr x 10 hours = \$1,000  
Labor- for placing fabric, straw matting, seeding- \$20hr x 10 hours = \$200  
Misc. labor- Tree trimming, brush cutting- \$20hr x 5 hours = \$100

Total labor and equipment = \$5,260

**Total cost of project = \$20,583**

## Summary of work to be completed

William's Road(th#55) is a short(.20mile) class-3 road in Moretown. This road is in constant need of maintenance due in large part to the highly erodible soils and constantly eroding ditch line. Sediment from both the road and ditch line leech into a nearby stream. Sub-standard attempts to rectify these issues have been met with very poor results over the years. If awarded this grant we intend to rectify the erosion/sediment issues by-excavating the ditch line to the desired depth before Placing nonwoven filter fabric in the ditch line beneath the 6"-12" erosion stone. The length of the ditch line is +/-650'. We will also re-shape the existing ditch banks to a 2:1 slope to allow for vegetation to be grown upon them. Care will be taken when placing the erosion stone so that it is not brought up too high on the road side, Thus inhibiting the ability to shape the shoulder for proper drainage. We will also remove the existing high shoulder from the opposite side of the road to allow immediate drainage here as well. Total excavated borrow will be +/-150 yards.

Resurfacing with 1.5" granite plant mix to a depth of 12" will allow for a properly crowned and compacted road surface replacing the highly erodible silt/sandy material there now, while at the same time placing some cover over exposed roots from two large maple trees at the top of the road. There will also be some light brush/limb removal. All exposed ground will be seeded and mulched in accordance with accepted practices.

The town of Moretown will do all labor/equipment work associated with this project with the exception of the hauling of materials which will be contracted out.