



# FY17 Vermont Better Roads Grant Application

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

Town/Organization: Town of St Johnsbury Contact Person(s): Chad Whitehead

Address: 51 Depot Square Suite 101 St Johnsbury VT 05819  
Street Address Town Zip

Email: CWhitehead@StJvt.com Phone: (802) 748-3926

\* DUNS #: 03029-1459 \* Fiscal Year End Month (MM): 06

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 St. Johnsbury

Project Name: Lawrence Hill

Road Name: Lawrence Hill Rd TH #: 69 Structure # (if applicable): \_\_\_\_\_

Road Type: Paved or Unpaved (circle one) Curbed or Uncurbed (circle one)

Class 1 Class 2 Class 3 Class 4 (circle one)

Watershed: Sleepers River

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

Long Steep road much of which is over 5% grade with poor ditching and causing a lot of erosion and loss of road during heavy rains and spring run off

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):

Reshaping and stone line 2,920 ft of ditch, replace 140 ft of 18" cross pipe  
Install 60ft of 15" drive pipe, reshape 1000ft of grass lined ditch  
Install 2 (two) rock splash pads at 2 different cross pipes

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

Most importantly this will stop a huge amount of sediment from entering the tributary of the Sleepers River as well as saving the municipality a lot of revenue spent on rebuilding this road so often.



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). Please circle one: 0-50' 50-250' 250'+

Progress to Date:

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

no

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.):

Vermont Dept. of Environmental Conservation  
Watershed Management Division: Ben Copans

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

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



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

How do you plan to meet the required 20% match on this grant?:

in-kind services plus \$\$ if needed

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

Estimated Total Project Cost (including 20% local match): 40,171

Estimated Completion Date: Aug 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: 04/11/2016

**State of Vermont**  
**Department of Environmental Conservation**  
**Watershed management Division**  
St. Johnsbury Regional Office  
1229 Portland Street, Suite 201  
St. Johnsbury, VT 05819  
[www.vtwaterquality.org](http://www.vtwaterquality.org)

*Agency of Natural Resources*  
[phone] 802-751-2610  
[Cell] 802-490-6143  
[fax] 802-748-6687  
[Email] [ben.copans@vermont.gov](mailto:ben.copans@vermont.gov)

Alan May  
Better Backroads Coordinator  
Municipal Assistance Bureau  
Highway Division  
1 National Life Drive  
Montpelier, VT 05633

April 5, 2016

Dear Alan May,

As a Basin Planner with the Vermont Department of Environmental Conservation I am writing to express my support for the St Johnsbury Better Backroads grant application for Lawrence Hill Road. In the spring of 2014 I witnessed a large volume of sediment eroding from this segment of road and through a series of ditches and steep drainages reaching a tributary to the Sleepers River largely unfiltered through native vegetation.

After witnessing this erosion, I have worked with the St Johnsbury Public Works Director in 2015 and 2016 to develop a plan to address this erosion through the instillation of stone lined ditches, clean out basins, new culverts and in some locations reducing road width from 24+ to 22 feet to reduce the chances of a secondary ditch forming which in the spring of 2014 was a primary cause of erosion and water quality impacts. I believe that through the implementation of these practices this project would significantly reduce water quality impacts to this small tributary and downstream waters and so should be a priority for Better Roads Program grant funding

Sincerely,



Ben Copans  
Vermont Dept. of Environmental Conservation  
Watershed Management Division  
1229 Portland Street, Suite 201  
St Johnsbury, VT 05819





## Vermont Better Roads Category B Grant Proposal Scoring Criteria

All categories will be scored on a sliding scale. The numbers below represent guidelines for scoring.

1. Application is complete [maximum 5 points]
  - Yes (5 points)
  - No (0 points)
2. Use of Best Management Practices (BMPs) from Better Back Roads Manual, ANR Stormwater Manual, and/or Green Stormwater Infrastructure sizing tool for small sites [maximum 15 points]
  - The proposal includes specific steps to maximize the likelihood of long-term success by applying BMPs (15 points)
    - The proposal includes an adequate number of steps to increase the likelihood of success by applying BMPs (10 points)
    - The proposal includes little or no steps to increase the likelihood of success by applying BMPs (0 points)
3. Expected Water Quality Benefits – [maximum 25 points]
  - Project will lead to significant reductions in sediment and/or phosphorous (25 points)
    - Project will lead to moderate reductions in sediment and/or phosphorus (15 points)
    - Project will lead to small reductions in sediment and/or phosphorus (10 points)
4. Distance from end of project to water or direct conveyance [maximum 20 points]
  - 0-50 ft. (20 points)
  - 50-250 ft. (10 points)
  - 250 ft. + (0 points)
5. Project is identified through a municipal road inventory, and/or capital budget plan, tactical basin plan, culvert inventory, please include with your application [maximum 15 points]
  - Project identified (15 points)
    - Not identified (0 points)
6. Cost effectiveness [maximum 15 points]
  - The cost of the project is reasonable based on the expected results (15 points)
    - The cost of the project outweighs the benefits (0 points)
7. A river/water quality or transportation professional, or other partner is engaged in the project [maximum 10 points]
  - Partners are identified and letters of support are included (10 points)
    - A letter of support is included (5 points)
    - No documentation of partnership exists (0 points)
8. Selection Committee discretionary allowance [maximum 10 points]
9. New Towns applying to the program will receive a BONUS of [10 points]

Cost Estimate Worksheet

Applicant Name: Town of St Johnsbury

Project Name: Lawrence Hill road

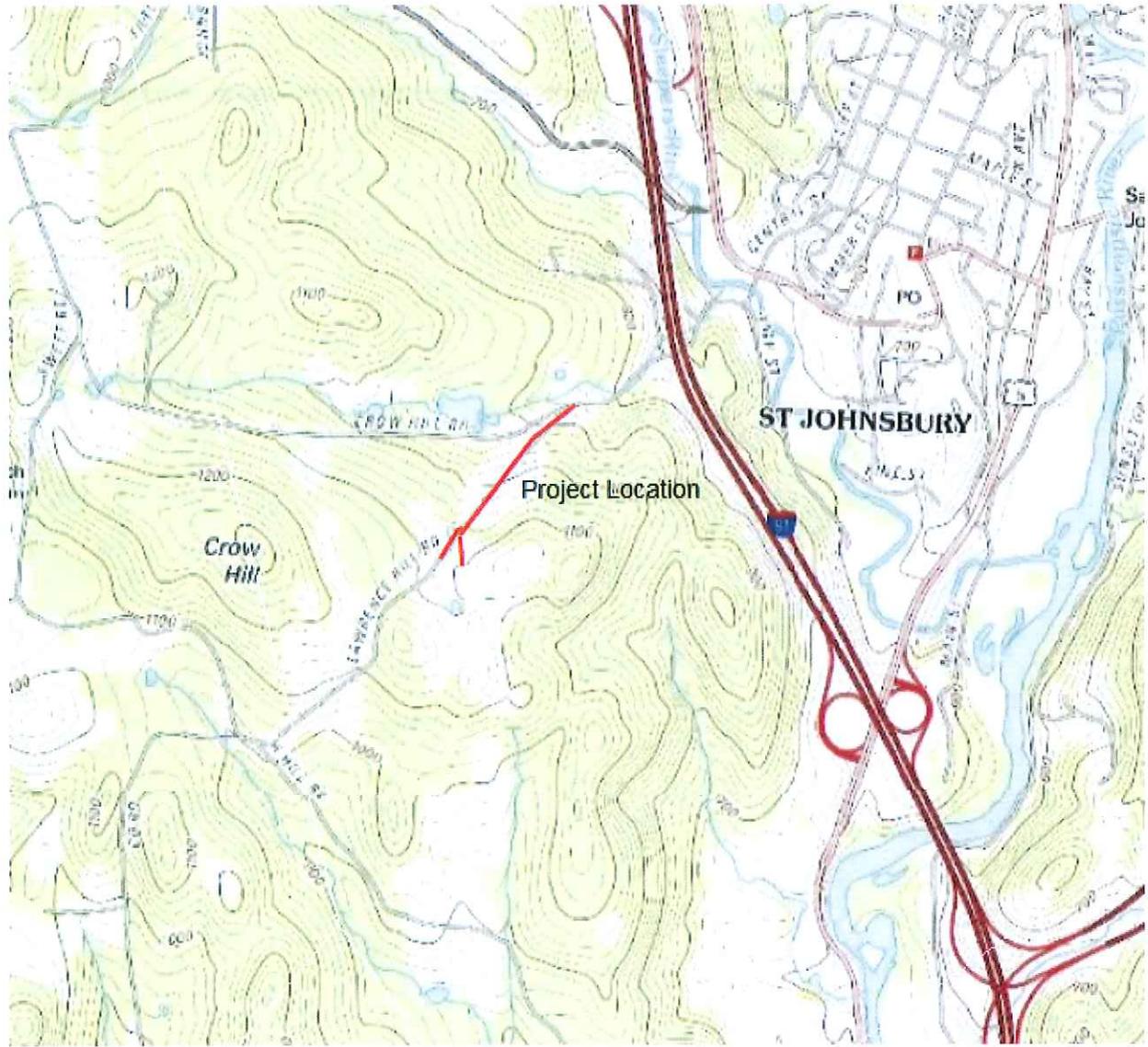
Lawrence Hill Rd

	Rate	# Hours		Total
Labor				
Teddy	\$20.00	80		\$1,600.00
Mike	\$20.00	80		\$1,600.00
Joe	\$20.00	80		\$1,600.00
Larry	\$20.00	80		\$1,600.00
Bob	\$20.00	80		\$1,600.00
Bart	\$20.00	80		\$1,600.00
Shawn- Grader	\$20.00	6		\$120.00
Labor total				\$9,720
Equipment	Rate	# Hours		Total
Hoe ram	\$175	4		\$700
10 wheeler 2	\$70	80		\$5,600
10 wheeler 1	\$70	80		\$5,600
Town Excavator (cat 315)	\$105	80		\$8,400
Grader	\$100	6		\$600
Equipment total				\$14,600
Materials	Rate	Amount	units	Total
Tons of 4-8" rock for rock lined ditches *	\$10.95	1,095	ton	\$11,990
Hydro seeding	\$0.08	20,000	sq ft	\$1,600
15" plastic culvert per foot Drive culverts	\$9.43	100	Lf	\$943
18" plastic culvert per foot	\$12.68	100	Lf	\$1,268
Concrete blocks for headwall	\$50	1	ea	\$50
Materials total				\$15,851
Miscellaneous	Rate	Amount		Total
Miscellaneous total				\$0
<b>GRAND TOTAL</b>				<b>\$40,171</b>
<b>MATCH</b>				<b>\$20,171</b>
<b>Grant request</b>				<b>\$20,000</b>

\*Rock is 4-8" .375 ton per foot based on previous years usage times 2920 ft

Loose ditch material (approximately 150 cubic yards) to be brought to the town garage for reuse









Locations of Sediment laden water from project site heading directly into tributary to the Sleepers River in 2014