



FY17 Vermont Better Roads Grant Application

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

Town/Organization: Town of Londonderry Contact Person(s): Duane Hart

Address: 100 Old School Street South Londonderry 05155
Street Address Town Zip

Email: ltownroadcrew@aol.com Phone: (802) 824 3471

DUNS #: 177682549 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



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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 Londonderry

Project Name: Goodaleville Road

Road Name: Goodaleville Road TH #: 51 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: West River

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

Goodaleville Road in this area is a steep 1 lane road. The drainage ditch daylights directly into the Winhall River. During Irene, the bridge crossing which is in Jamiaca was washed out. The Town of Jamiaca just replaced that bridge and did some stoneling of the ditch, as can be seen on a photo attached. Silt from erosion has already started to plug that material.

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):

The corrective action plan is to trench the entire length of hill approx 445' long. Install 4" drainage pipe, filter fabric, 1 1/2" stone around pipe. And ditch stone to the surface.

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

Erosion will be eliminated by creating the drainage system. Sub surface drianage will also occur which will maintain a drier road bed and help prevent rutting during mud season. Which also contributes to silting into the river.



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:

none _____

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: Better Back Roads Class A Project 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.):

Alan May- Better Back Roads, _____
Matt Mann- Windham Regional Commission _____

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 _____



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?:

Town Equipment and Man Power

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$8,926.50

Estimated Total Project Cost (including 20% local match): \$8,926.50

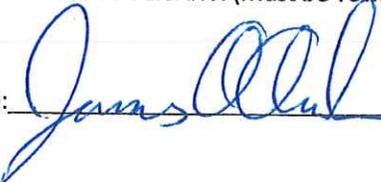
Estimated Completion Date: September 15, 2016

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: 



207.0 0 104.00 207.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Vermont Agency of Natural Resources

1" = 340 Ft. 1cm = 41 Meters
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.

1: 4,078
April 8, 2016



LEGEND

Town Boundary

NOTES

Map created using ANR's Natural Resources Atlas



1: 2,039
April 8, 2016



104.0 0 52.00 104.0 Meters
WGS_1984_Web_Mercator_Auxiliary_Sphere
© Vermont Agency of Natural Resources
1" = 170 Ft
1cm = 20 Meters
THIS MAP IS NOT TO BE USED FOR NAVIGATION

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LEGEND

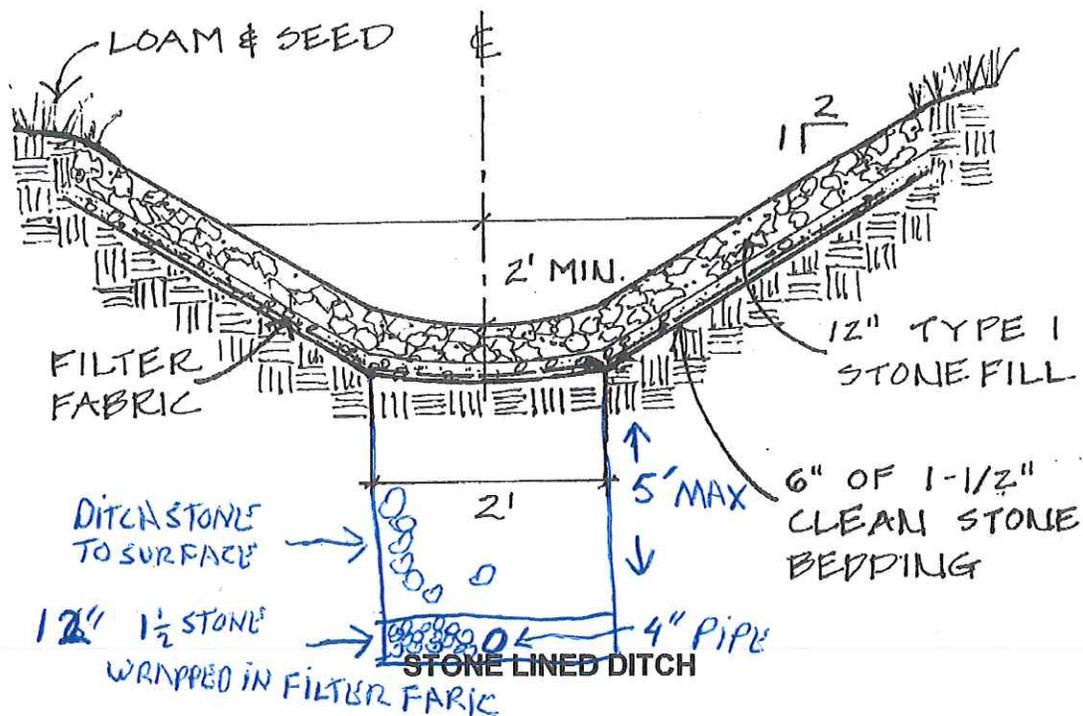
- Low Risk, 0.5 - 4
- Moderate Risk, 4.5 - 6
- High Risk, >= 6.5
- Town Boundary

NOTES

Map created using ANR's Natural Resources Atlas

DITCHES

- Size ditches so they are large enough to handle runoff from the drainage area.
- The preferred equipment for creating ditches is a rubber-tired excavator with an articulated bucket.
- Line ditches which have a less than 5% slope with grass in order to filter sediments. Use mulch or erosion control blankets to hold seed in place and allow it to become established.
- Line ditches which have a greater than 5% slope with riprap.
- Line ditches as soon as possible to prevent erosion and to maintain the ditch profile.
- Ditches should deposit water away from the road and prevent standing water, which can weaken the road.
- Outlet ditches into vegetated areas, where possible.
- Vegetated ditches installed after September 15th should be stabilized with either erosion control blankets or hydroseeding to provide adequate protection for winter.



DITCHES

TABLE 1: DITCH LININGS		
Channel Slope	Lining	Thickness
0-5%	grass	
5-10%	R#3 (2 - 6 inch) diameter rock	7.5"
> 10%	R#4 (3-12 inch) diameter rock	12"

Cleaning & Maintenance:

- Clean ditches when they become clogged with sediments or debris to prevent overflows and washouts.
- Check ditches after major storm events as they may have obstructions, erosion, or collapsed banks.
- Regrade ditches only when absolutely necessary and line with vegetation or stone as soon as possible.
- Preventing erosion from uphill or on backslopes can lengthen the time needed between ditch cleanings.

Economic advantages of maintaining a properly constructed ditch estimated over a 20 year period are:

\$36,000/mile/20 years for an improperly constructed ditch
\$26,000/mile/20 years for a properly constructed ditch

\$10,000/mile/20 years
SAVINGS FOR INSTALLING A PROPER DITCH

This amount can be increased by \$5,000/mile/20 years if an excavator is used instead of a backhoe

Everett Hammond
Director of Public Works
Rockingham, VT



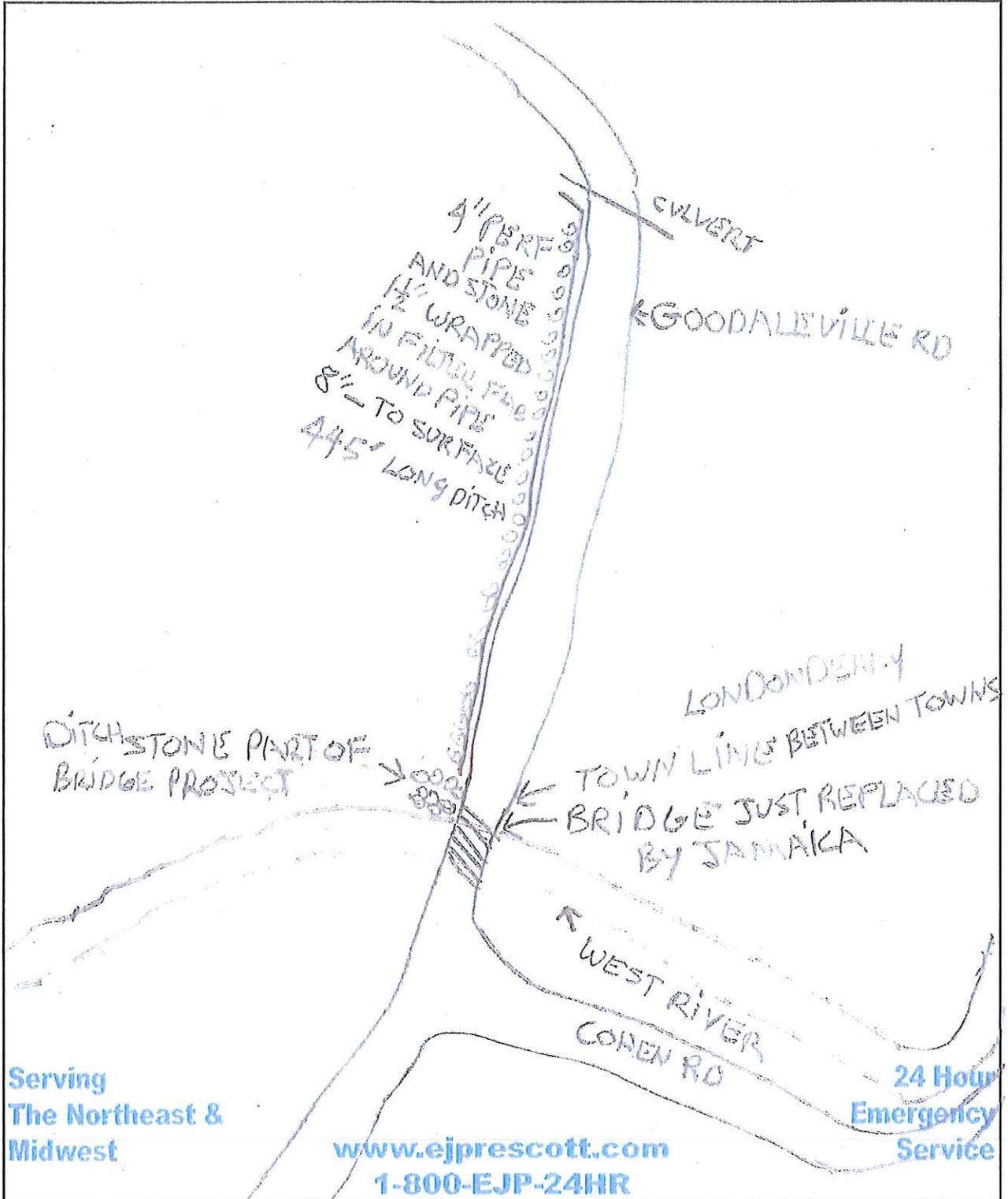
WATER • WASTEWATER • STORMWATER
SOLUTIONS

JOB _____

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE _____

SCALE _____



R)

