



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 Johnson

Project Name: TFO1 + TFO4

Road Name: Tree Farm + Ober Hill TH #: 25+26 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: Lamoille

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

TF01 Roadway has >15% slope, water is not getting to ditch causing incisions in road and shoulder. TFO4 Culvert inlet and outlet unstable, ditch deeply sized, road needs to be crowned and berms removed. Ditch runs directly into creek.

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):

Remove berms, crown roads, stone line ditches, stabilize culvert ends, create turnout, install check dams, Stone line ditches where needed.

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

Effects on water quality will be 100% positive and long lasting.



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:

A small temporary fix was installed in one of the deep road incisions.

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

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: Lamoille County Erosion Study

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).

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: _____

See attached project budget.

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

With labor and equipment.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 4,380

Estimated Total Project Cost (including 20% local match): \$ 5,475

Estimated Completion Date: Fall 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: Duncan Hastings 3/28/16

Title: Town Administrator
Road Commissioner



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]**



TF01 + TF04

Johnson, VT

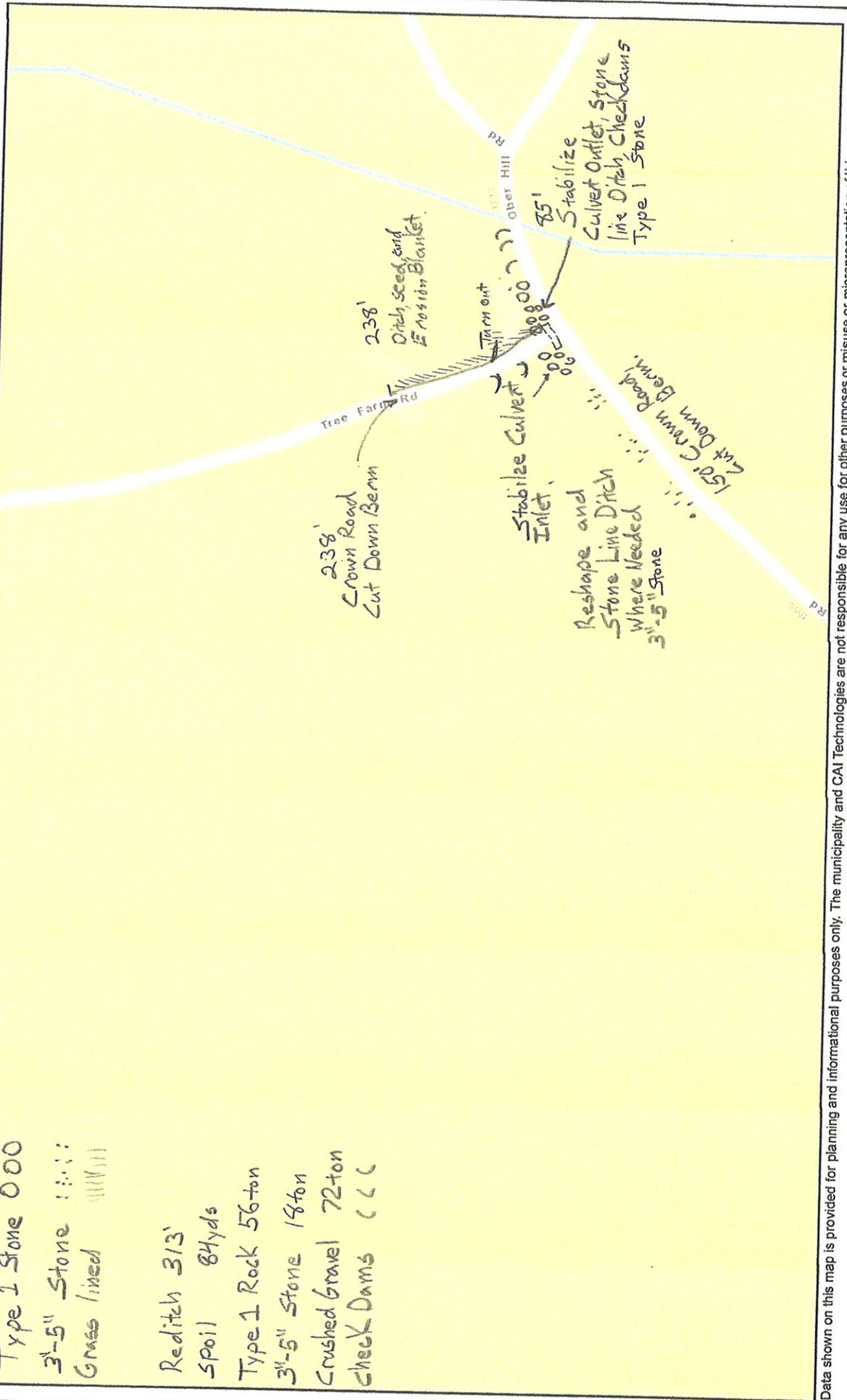
March 24, 2016

1 inch = 188 Feet



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- Type 1 Stone 000
- 3'-5" Stone (---)
- Grass lined (|||||)
- Reditch 313'
- Spoil 84yds
- Type 1 Rock 56-ton
- 3"-5" Stone 18-ton
- Crushed Gravel 72-ton
- Check Dams (---)



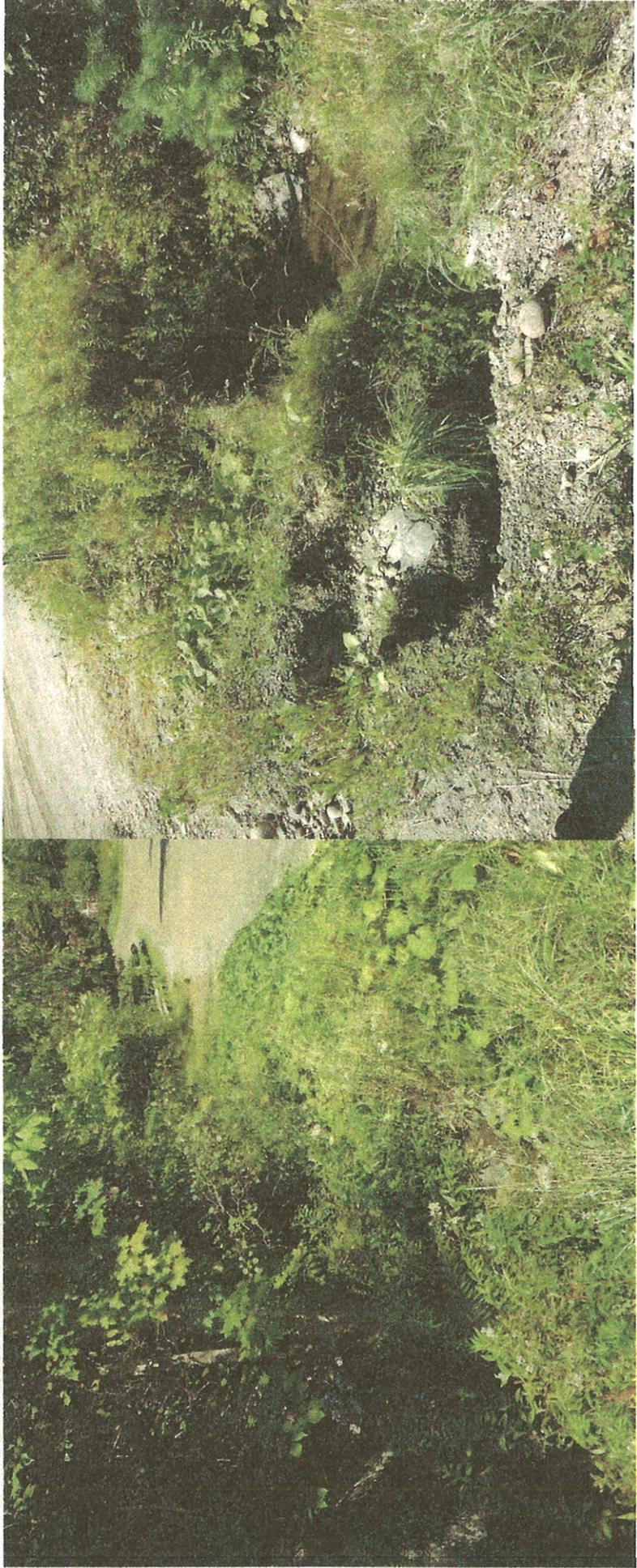
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Lamoille County Erosion Study
 October 30, 2014

Town: Johnson
 Site: TF01

Town	Road Name	Site ID	Erosion Type	Erosion Location	Volume	Steepness	Ground Cover	Deposition	Total Score	Priority
Johnson	TREE FARM RD	TF01	Incision	Shoulder	High	Steep > 15	Bare	High	11.7	High

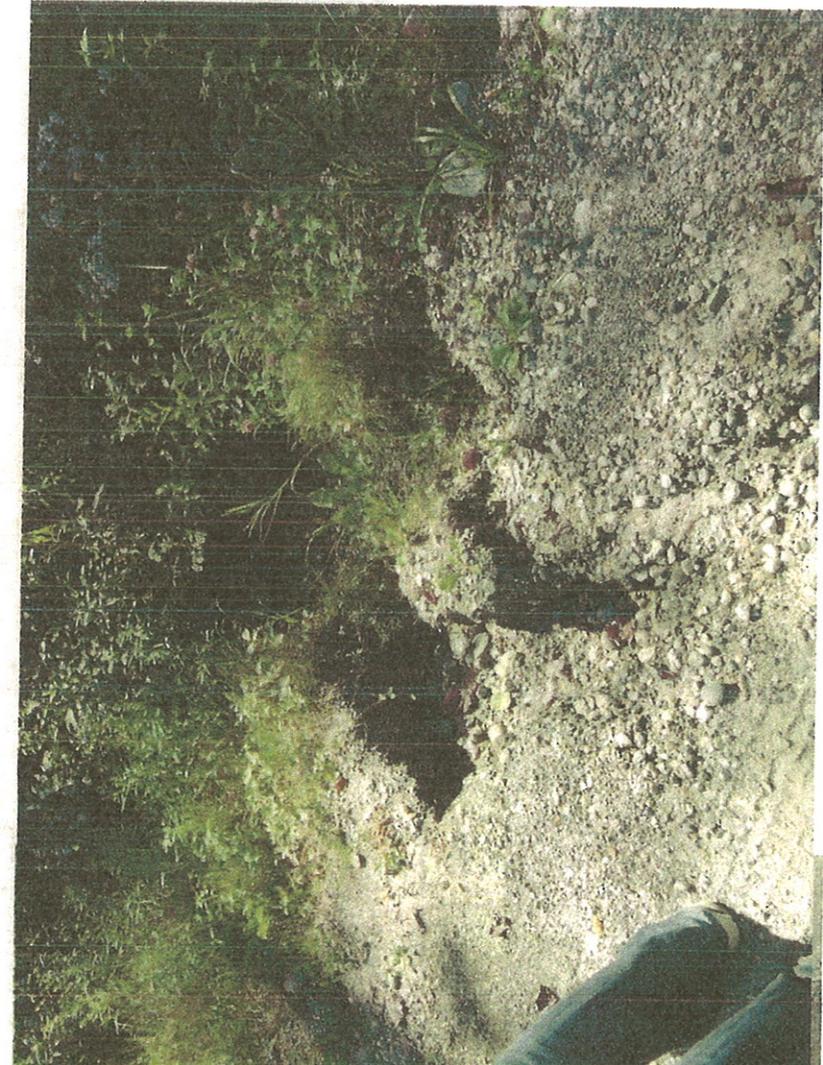




Lamoille County Erosion Study
 October 30, 2014

Town: Johnson
 Site: TF04

Town	Road Name	Site ID	Erosion Type	Erosion Location	Volume	Steepness	Ground Cover	Deposition	Total Score	Priority
Johnson	TREE FARM RD	TF04	Slump	Shoulder	High	Steep > 15	Bare	High	11.7	High





Lamoille County Planning Commission

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April 4, 2016

Alan May
Agency of Transportation
Municipal Assistance Bureau
1 National Life Drive
Montpelier, Vermont 05633
Phone (802) 828-4585

To the Review Committee,

The Lamoille County Planning Commission is pleased to offer our support for the **Town of Johnson's FY17** Better Roads grant proposal to complete a project on Plot Road and Tree Farm Road. These proposed projects will address water quality degradation related to excessive sediment being carried from gravel roads into streams, by identifying erosion problems and developing remediation strategies to correct these problems. The development of a phased implementation plan will help the Town execute this work in a manageable way.

Erosion from gravel roads has been documented as a significant source of sediment and nutrients to Vermont's waterways. This project will result in better road management, improved water quality and improved habitat and inform local stakeholders/user groups on erosion issues from town roads.

Best regards,

Robert Moore
Regional Transportation Planner