Better Roads
Clean Water You Can Afford

Received
APR 15 2016
VTrans
PDD-LTF

VTrans Working to Get You There
VERMONT
AGENCY OF NATURAL RESOURCES

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 Bane

Project Name: Nuissl Road

Road Name: Nuissl Road **TH #:** _____ **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: Honey Brook / Jail Branch of Wincoski River

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

Roadway receives flow from small cross country stream tributary of Honey Brook to Nuissl Road. The steep bank has experienced headcutting and spread out across the top of the bank making difficult for the water to enter the cross culvert under the road.

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 Town will stone line the embankment and ditch line as well as reinforce the culvert entrance with wing walls and a better stone header and outlet. Time will also be spent reinforcing the ditch downstream with check dams and raising the road bed at the culvert crossing.

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

Erosion along the road edge, across the road and into the nearby Honey Brook will be reduced as a result of reinforcing the embankment and culvert entrance.

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, This area has been a repeated site for erosion problems at the culvert crossing.

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.):

VTRANS Better Roads Staff, ANR River Management Engineer

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

Both. There is a small segment of the top of embankment that is beyond the limits of the Town Right-of-way

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

The Town Crew will be the team assigned to do this project.

Describe how the grant funds will be spent and/or attach a project budget: The grant funds will be spent improving the embankment and stabilizing the ditch and culvert crossing. Funds will be used to add stone riprap & check dams along the road ditch on this section of road to the main branch of Honey Brook

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

The Town of Barre DPW will be doing the work. The time of crew and equipment will be much more than the match required.

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

Estimated Total Project Cost (including 20% local match): $4,000

Estimated Completion Date: 10/15/17

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).
- NA ☐ 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:_____

Cost Estimate Worksheet

Town and Road Name: **Project Name:**

Labor	Rate	# Hours	Total (Rate x Hours)
Town Highway Crew			
Full time crew - Trucking (3 men)	24/hr	40	2880
- Excavation (1 man)	24/hr	40	960
Summer Crew - Flagging (2 men)	11/hr	40	880
- Support Crew (2 men)	11/hr	40	880
		Labor Total	5600

Equipment	Rate	# Hours	Total (Rate x Hours)
Excavator - wheeled (1)	65/hr	40	2600
1440 Dump Trucks (2)	65/hr	40	5200
640 Dump Truck (1)	45/hr	40	1800
1 Ton Dump Truck (2)	25/hr	40	2000
		Equipment Total	11,600

Materials	Rate	Amount	Total (Rate x Amount)
Rock Rip-Rap (erosion stone) Type 3	16/cu. yd	200	3200
Stone Check dams Type 2	14/cu yd	150	2100
Ston Check dams Type 1	14/cu yd.	80	1120
Erosion matting Coco Mat	57.50 ea	6	~~320~~ 345
		Materials Total	6765

Miscellaneous	Rate	Amount	Total (Rate x Hours)
		Miscellaneous Total	

Grand Total 23,965

Match 4,000

Vermont Better Roads Category D 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]**

RELATED MAPS
Brule Rd
Phelps Rd
Sierra Lavin Rd
Sierra Lavin Rd
Sierra Lavin Rd
Anderson Rd
Pierce Rd
Pierce Rd
Pierce Rd
Nuss Rd
Nuss Rd
Nuss Rd
Old Wheaton Quarry
Project site

Old Wheaton Quarry