



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 Mount Holly

Project Name: Tarbellville culvert 1-107

Road Name: Tarbellville rd TH #: 1 Structure # (if applicable): 107

Road Type: Paved Uncurbed

Class 2

Watershed: _____

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

6ft X 9ft culvert has rusted through on the bottom allowing water to wash underneath causing the culvert to drop more each year. The sides of this culvert are perfect.

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):

Install temporary stream bypass, Install 3ft X 5ft cutoff wall at head of culvert with reinforcing connecting to new 5ft X 8in concrete floor, install retention sills along length of culvert and fill in between with stone, install large rip rap and culvert end to provide 1/10 slope

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

Erosion will be eliminated and this culvert will last many more year's.



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

Progress to Date:

Talked with the engineers from Wright Construction and Josh Carvajal with ANR

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

This culvert is the worst of the two and the bottom is deteriorating faster.

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: municipal road 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.):

Wright Construction engineers and Josh Carvajal with ANR.

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).

No



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

The Town will contract this work out

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

The Town will pay the 20% match

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 24,000.00

Estimated Total Project Cost (including 20% local match): \$ 30,000.00

Estimated Completion Date: 10/31/2016

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: Chair Select Board

WRIGHT

CONSTRUCTION COMPANY, INC.

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Mt. Holly, Vermont 05758
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www.wrightconstruction.com

January 28, 2016
REVISED March 14, 2016

Mr. Jeff Teter
Town of Mt Holly
Mt Holly, VT 05758

RE: Tarbellville Rd Culverts
Budget Estimates

Dear Jeff,

Please find below our budget estimates for the repairs to the Tarbellville Rd Culverts that we discussed on January 26, 2016. This scope of work is based on the attached drawing, the description of work noted below and requirements as provided by Josh Carvajal with ANR. Finally pricing would be dependent on the permit requirements issued by ANR. It is not clear to me at this time if ANR would allow the proposed repairs to be done to the more downstream of the culverts.

The work, as we understand it, would be as follows:

- Install temporary stream bypass. It is thought we would cut off the stream above the upstream most culvert and use a pump to pump the water along the road and have it discharge past the downstream end of the more downstream culvert. This would require the fish along this section of river be removed prior to dewatering. The cost of the fish removal is not included in this budget. Work would then be able to proceed on both culverts at the same time.
- Install 3' x 5' cut-off wall at head of each culvert with reinforcing connecting to new concrete culvert floor.
- Fill voids below existing culvert floor to eliminate voids with mass pour of concrete
- Pour 8" thick reinforced slab as a new floor, approximately 5' wide.
- Install retention sills along the length of the culvert and fill the bottom of the culvert between the sills with stone.
- Install large riprap with gravel infill at outlet end of culverts to provide consistent stream slope and eliminate drop and pool at the outlet.
- Work is anticipated to take approximately three weeks to complete.

Total budget to complete both culverts at the same time: \$60,000
Budget to just do the upper culvert: \$30,000 -- 1-107
Budget to just do the lower culvert: \$35,000 -- 1-108

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SINCE 1984



Sincerely,



Joseph Poston
Sr. Project Manager

Attachments: Sketch of proposed work.
Email from Josh Carvajal, dated March 10, 2016

CONSTRUCTION PROFESSIONALS
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CUT OFF
WALL

3 W.S.

