



FY17 Vermont Better Roads Grant Application

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

Town/Organization: Town of East Montpelier Contact Person(s): C. Bruce Johnson
Address: 40 Kelton Road, PO Box 157 East Montpelier 05651

Email: eastmontadmin@comcast.net Phone: (802) 223 - 3313

DUNS #: 108873704 Fiscal Year End Month (MM): 6

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

May, Alan

From: Bruce Johnson <eastmontadmin@comcast.net>
Sent: Wednesday, April 13, 2016 6:05 PM
To: May, Alan
Subject: East Montpelier FY2017 VT Better Roads Grant Program Application
Attachments: FY2017 EM Better Roads Grant Application.pdf; Muddy Brook Road Project Locations Map.pdf; Muddy Brook Road Long View.JPG; Muddy Brook Road Larger Slump.JPG; Muddy Brook Road Smaller Slump.JPG

Hi Alan:

Please find attached an East Montpelier FY2017 Vermont Better Roads Grant Program application and supporting documents for the Muddy Brook Road stretch that you and Mike Garand examined earlier this year.

Explanation on the photos:

1. Long view looking southeast from the rise by US Rte. 2. The first guardrail deflection as you head down the slope is the site of one slump, with a cost estimate to fix of \$30,555. The second guardrail deflection, much harder to see at the base of the road slope, is the site of the second slump right above the major (10-foot diameter) cross culvert, with a cost estimate to fix of \$19,900.
2. Close-up of the first slump. The project will run 75 feet, pretty much point-to-point from the start of the guardrail deflection to the end.
3. Close-up of the second slump looking northwest. The stone slope is above the outlet of the big culvert. The culvert runs diagonally (essentially east to west), bringing the main branch of Muddy Brook under the road on its way to the Winooski just beyond US Rte. 2 (the Winooski is just under a half-mile from the culvert). The project will run from the culvert outlet to a point some 50 feet further east, again pretty much matching the guardrail deflection.

Please let me know that you have received the application. As always, thank you for your help.

Bruce

C. Bruce Johnson
East Montpelier Town & Zoning Administrator
40 Kelton Road
PO Box 157
East Montpelier, VT 05651
(802) 223-3313 x 204
eastmontadmin@comcast.net



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 East Montpelier

Project Name: Muddy Brook Road Slope Stabilization

Road Name: Muddy Brook Road TH #: 6 Structure # (if applicable): _____

Road Type: Paved Uncurbed
Class 2

Watershed: Winooski River; Muddy Brook drainage area

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

Road is slumping on its south side along two stretches: above the 10' culvert carrying drainage from the southeast side of town north to south under the road; and, to the west of that point as the road rises towards its connection with US Rte. 2. The slope on the south side of the road is steep as it drops down to the conjoined brook (the water from the culvert merges with a brook coming northwest out of Barre Town; the brook then flows into the Winooski about one-half mile to the west) and needs to be stabilized.

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):

In both places: guardrail, timber curbing and pavement will be removed, material from bank and part of road will be improved with stone to stabilize the slope, road bed and shoulder reformed/repaved, guardrail and timber curb replaced

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

The slope stabilization will decrease the chance that the slope will fail; such failure would lead to major erosion into the brook



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

Progress to Date:

None

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

This road will serve as the major paved alternative (shortcut) to the official VTrans detour route (using US Rtes. 2 & 302) for the planned closing of VT Rte. 14 S at the site of the Bridge 68 replacement & US Rte. 2/VT Rte. 14 intersection project scheduled for 2016-18 (closure period is unknown at this point)

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.):

1. We have discussed the project with Shauna Clifford, VTrans D7 Project Manager. She conducted a site visit with VTrans' Chris Benda and our staff. She recommended that we submit this application to the Better Roads grant program.
2. Our DEC River Management Engineer, Jaron Borg, has evaluated the site and our plan. No stream alteration permit is necessary and there is no expected negative effect from the project on Muddy Brook.

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

Both sites of the project are located in the road right of way. Green Mountain Power owns the undeveloped adjoining parcel next to the two work sites. Just beyond (east of) the large culvert work site the adjoining property is owned by Casella Waste Management (the large multi-town parcel that includes the transfer station accessed from US Rte. 2).

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

No, the expectation is that this will be a contracted project.



Describe how the grant funds will be spent and/or attach a project budget:
 See Dubois Construction, Inc. proposal

How do you plan to meet the required 20% match on this grant?:
 Town funds from our capital reserve. At this point there does not appear to be an opportunity for in-kind match.

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

Estimated Total Project Cost (including 20% local match): \$ 50,455.00

Estimated Completion Date: 11/01/2017

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: Town Administrator

Proposal

DUBOIS CONSTRUCTION, INC.
46 Three Mile Bridge Road
Middlesex, Vermont 05602
Phone: 802-223-5288 Fax: 802-223-0940
Email:rae@duboisconstructionvt.com

Proposal Submitted To:
Town of East Montpelier

Fax/email:
eastmontadmin@comcast.com

Date:
3/22/2016

Engineer:
Town

Job Name:
Muddy Brook Road Slope Repairs-Two sites
Job Location:
Muddy Brook Rd., East Montpelier, Vt

We hereby submit specifications and estimates for:

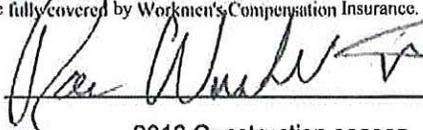
Site 1-\$30,555
Site 2- \$19,900
Scope of work, Both sites, See attachment for quantities:
Clear and grub
Traffic control
Remove and replace guardrail with timber curb
Pavement removal and replacement
New edgeline
Stone fill types 2 and 3

We propose hereby to furnish material and labor - complete in accordance with above specifications, for the sum of:
As stated above

Payment to be made as follows: net 30 days

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized Signature



This proposal may be withdrawn by us if not accepted within

2016 Construction season

Acceptance of Proposal - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above

Signature _____

Date _____

Note Dubois Construction does not accept credit cards for payment.

03/22/2016
16-14

7:53
MUDDY BROOK RD. SLOPE REPAIR

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Status - Rnd</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
5	MOBILIZATION	U	1.000	LS		
10	REMOVE GUARD RAIL	U	95.000	LF		
15	CUT PAVEMENT	U	95.000	LF		
20	CLEAR/GRUB	U	1.000	LS		
25	STONE FILL,TYPE 2/3	U	300.000	CY		
30	GUARD RAIL W/TIMBER CURB	U	95.000	LF		
35	PATCH PAVEMENT (4")	U	45.000	SY		
40	PAINT EDGELINE	U	95.000	LF		
45	FLAGGERS	U	100.000	HRS		
SITE 1						\$30,555.00

105	MOBILIZATION	U	1.000	LS		
110	REMOVE GUARD RAIL	U	64.000	LF		
115	CUT PAVEMENT	U	64.000	LF		
120	CLEAR/GRUB	U	1.000	LS		
125	STONE FILL,TYPE 2/3	U	120.000	CY		
130	GUARD RAIL W/TIMBER CURB	U	64.000	LF		
135	PATCH PAVEMENT (4")	U	85.000	SY		
140	PAINT EDGELINE	U	64.000	LF		
145	FLAGGERS	U	60.000	HRS		
SITE 2						\$19,900.00

Bid Total \Rightarrow \$50,455.00

***Notes:
Items in italics are Non-Additive.



Vermont Department of Environmental Conservation

Watershed Management Division
1 National Life Drive, Main 2
Montpelier VT 05620-3522
www.watershedmanagement.vt.gov

Agency of Natural Resources

[phone] 802-828-1535
[fax] 802-828-1544

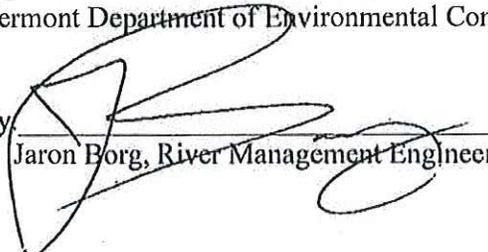
Attn: Bruce Johnson
East Montpelier Town Office
PO Box 157
East Montpelier, VT 05651

Mr. Johnson,

Thank you for providing me with opportunity to meet with you at the project sites, earlier this morning (04/08/2016). At the time of our meeting we reviewed two projects involving one stream crossing on Quaker Rd. and an embankment repair project on Muddy Brook Rd. The proposed culvert crossing located on Quaker Road, a 5'x5'6" (HXW) arch pipe, meets the bank full width requirements as outlined in the State of Vermont's Stream Alteration General Permit, provided the embedment depth is 1'2". The Embankment repairs proposed along Muddy Brook Rd. will not necessitate a stream alteration permit as no instream work is proposed and the potential for stone entering the stream is minimal. Should you have any further questions or comments regarding this project please do not hesitate to contact me.

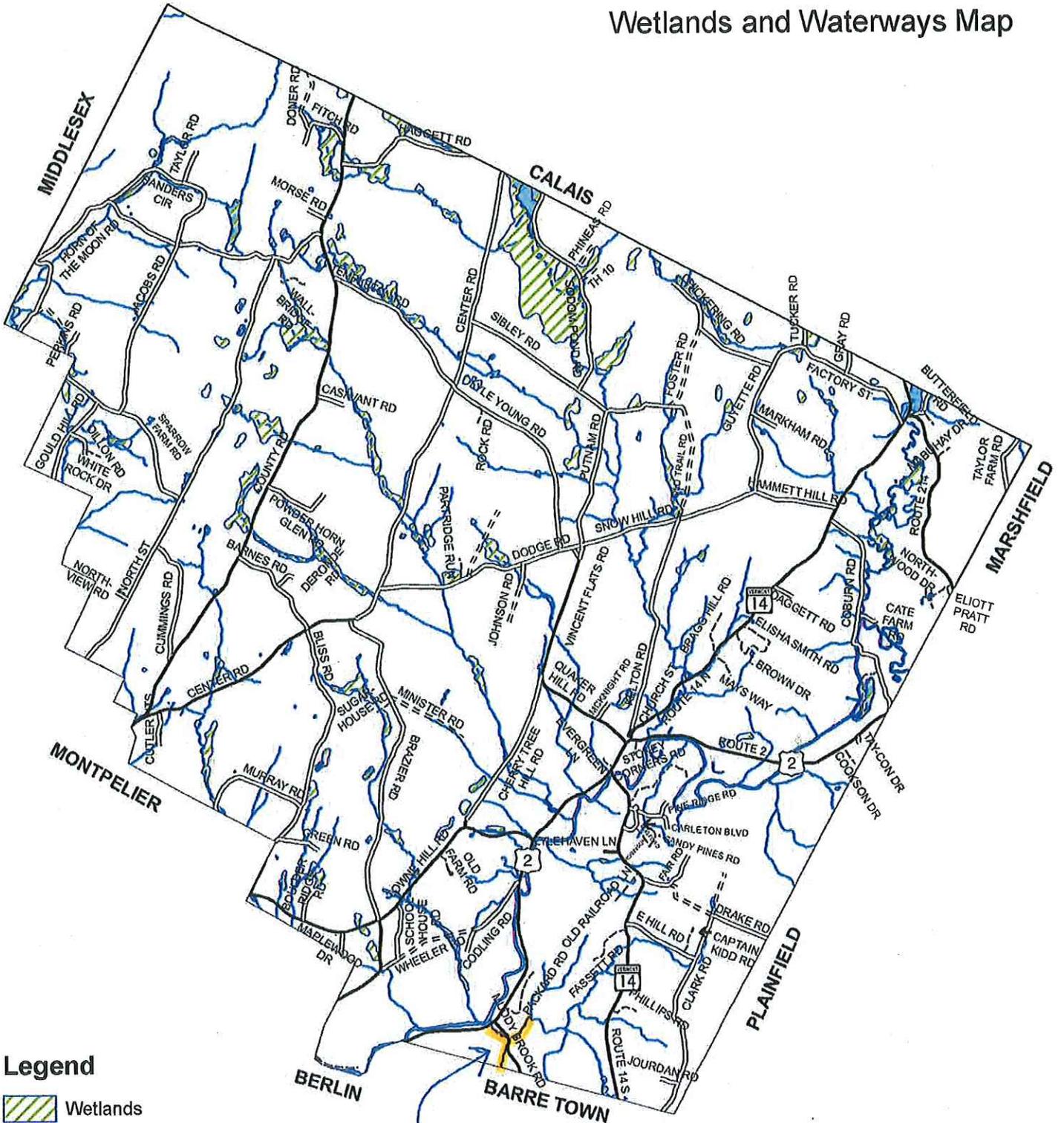
Sincerely,

Alyssa B. Schuren, Commissioner
Vermont Department of Environmental Conservation

By  _____
Jaron Borg, River Management Engineer

Dated April 8th, 2016

Wetlands and Waterways Map



Muddy Brook

Legend

-  Wetlands
-  Rivers, Lakes, and Ponds
-  Streams
- Town Roads**
-  Pavement
-  Gravel
-  Class 4/ Legal Trail
-  Private



Map Created 01/03/13 by CVRPC
 N:\Towns\EMontplTown_Plan_2012\ wetland and waterways map.mxd

Source:
 Wetlands: VT ANR DEC, 2010
 Surface Waters, VCGI, VHD 2007

Data is only as accurate as its original source.
 This map is for planning purposes only.
 This map may contain errors and omissions.

East Montpelier Muddy Brook Rd Project Locations



Legend

-  Contours (20 Foot)
-  Work Zone
-  Parcels2015

- | | |
|--|---|
| Culverts 2011 |  Poor- 128 |
| CONDITION |  Closed- 41 |
|  Excellent- 6 |  Critical- 7 |
|  Good- 139 |  Unknown- 1 |
|  Fair- 108 | |

Map created 4/8/16 by CVRPC
 N:\Towns\EMontplr\Projects 2016\
 Better Back Roads\Muddy Brook Rd.mxd

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