



# 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 Thetford

Project Name: Miller Pond Road Streambank Improvements

Road Name: Miller Pond Road TH #: 4 Structure # (if applicable): \_\_\_\_\_

Road Type: Paved Uncurbed  
Class 2

Watershed: Abbott Brook

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

Roadway has no shoulder or ditch. Surface runoff has caused erosion of streambank. Road Salt is washed directly into Brook and pavement is starting to break away in one area. There are three locations within 100 ft that need to be repaired.

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):

Contractor will place Type 3 Stone (bigger the better) on stream bank after excavating so that the upstream and downstream banks are flush so as not to restrict flow. The rock will be keyed in and type 2 stone will be used adjacent to the roadway - See Attached Detail

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

Erosion will be eliminated by repairing streambank and placing stone adjacent to the roadway.



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

Progress to Date:

Site Visit by VTRANS, Bid from contractor, Town Project Manager assigned, Permit to be issued by Pat Ross

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

There is currently a direct conduit for sediment and roadway contaminants to enter Abbott Brook.

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 - Chris Bump  
Stream Alterations Permit - Pat Ross has visited the site and supports the project

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

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

A local contractor will perform the work, Town Personnel will assist with traffic control and material trucking.



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?:

The road crew will haul all material to the site and take out waste materials. The road crew will also perform traffic control.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 19,165.00

Estimated Total Project Cost (including 20% local match):

Estimated Completion Date: 10/01/2016

**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)

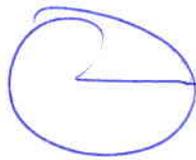
Name: [Signature]

Title: SELECT BOARD CHAIR



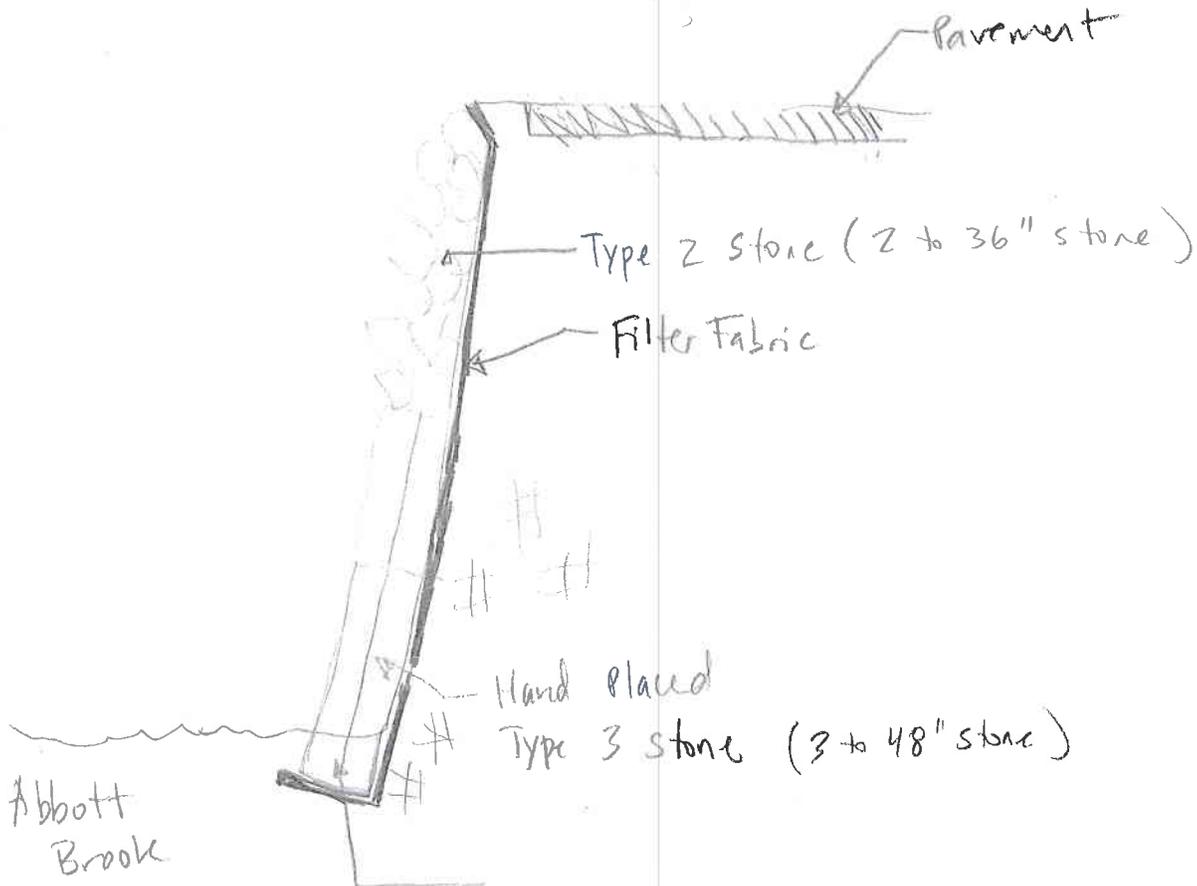
# Miller Pond Road

## Bank Stabilization



Detail

WHERE SLOPE > 1:1.5





Miller Pond Road Streambank Improvements				
Item	Unit	Cost/Unit	# Units	Total Cost
<b>Mobilization</b>	LS	\$500.00	1	\$570.00
<b>Clearing</b>				
Excavator	hrs	\$165.00	4	\$660.00
Labor w/ chainsaw & Chipper	LS	\$800.00	2	\$1,600.00
				<b>\$2,260.00</b>
<b>Traffic Control</b>				
2 Flaggers *	hrs	\$90.00	20	\$1,800.00
<b>Fix Washouts</b>				
Excavator	hrs	\$165.00	21	\$3,465.00
Supervisor and Labor	hrs	\$160.00	20	\$3,200.00
Cleanup	LS	\$1,500.00	1	\$1,500.00
				<b>\$8,165.00</b>
<b>Materials</b>				
Fabric	SY	\$0.70	200	\$140.00
Type 3 Stone	T	\$14.00	80	\$1,120.00
Type 2 Stone	T	\$13.50	180	\$2,430.00
Waste Out	CY	\$7.00	173	\$1,211.00
				<b>\$4,901.00</b>
Trucking - 2 Dumptrucks	hrs	\$160.00	20	\$3,200.00
			<b>Total</b>	<b>\$20,896.00</b>
		\$5,000.00	Tasks by Town, other tasks by Contractor	

\*Not included in Northwoods Bid



## Miller Pond Road Streambank Stabilization Project – Abbott Brook

Miller Pond Road is a Class 2 paved road in the Town of Thetford. Abbott Brook runs adjacent to Miller Pond Road. There are several driveways with private bridges installed across Abbott Brook to access Miller Pond Road.

There is one location along Miller Pond Road where the surface waters have caused enough erosion to wash out pavement and cause stream bank erosion (Site #1) and two others where surface water has started the erosion process and the bank needs to be stabilized (Sites #2, #3). There is a direct conduit for sediment and roadway salt to enter the Brook.

Site #1



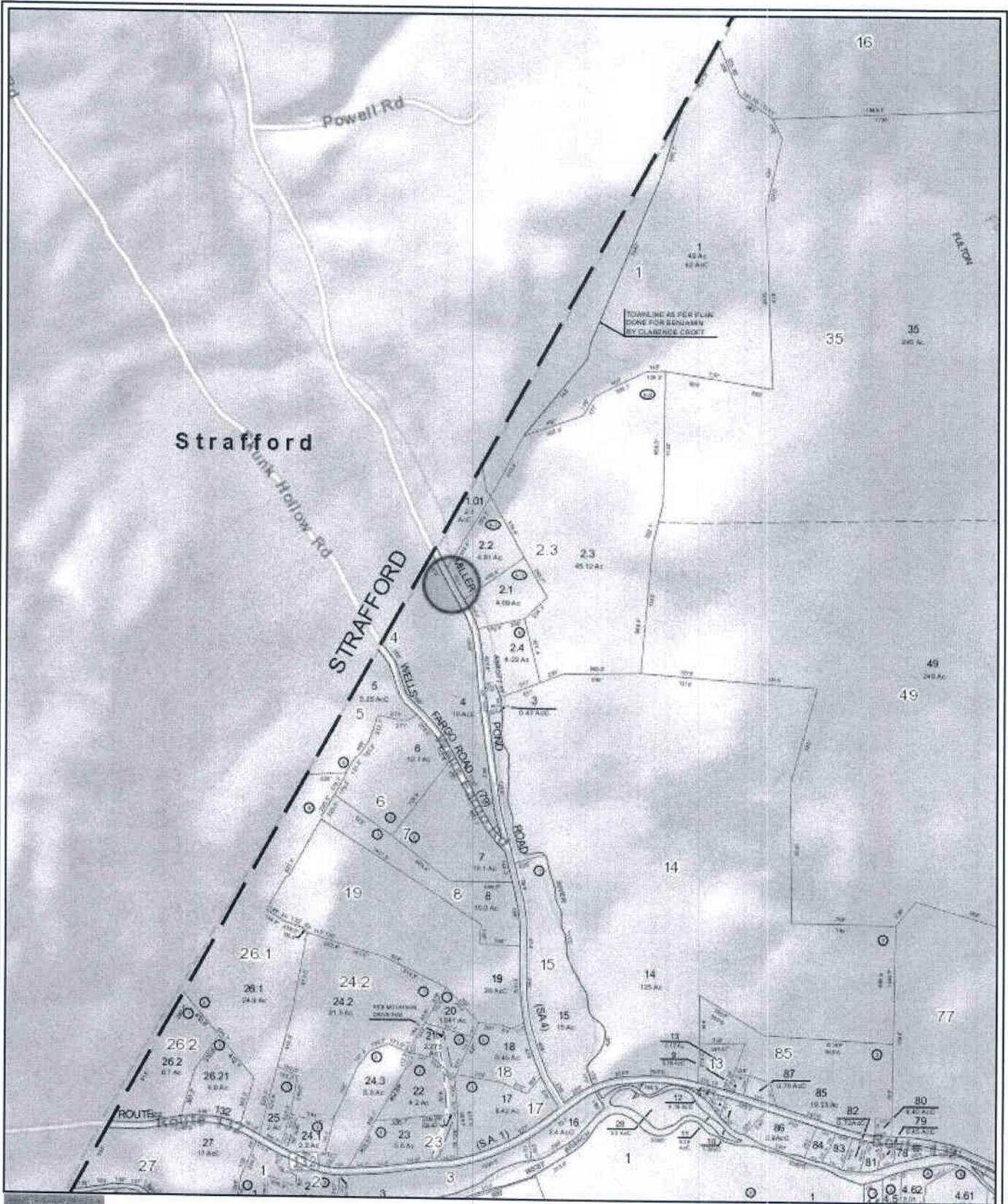
Site #2



Site #3



The Town of Thetford has secured a bid from Northwoods Excavating to repair Sites #1-3 under the same contract with a total price of \$19,163.25. See Attached. This price doesn't include flaggers, they will be provided by the Town and are included in cost estimate.

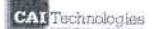


**Thetford Vermont**  
**Miller Pond Road - Bank Stabilization Project, Sites #1-3**  
 1 Inch = 1000 Feet  
 April 13, 2016



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www.cai-tech.com





**northwoods**  
**EXCAVATING INC.**  
289 Ulman Road  
Thetford Center, VT 05075

4/12/2016

Town Of Thetford

**Ref: Miller Pond Road**

**Scope of work:**

- Mobilization
- Clearing
- Fix Washouts
- Cleanup seeding and mulching
- Trucking and Materials

**Price: \$ 19,163.25**

Any work above and beyond our scope will be tracked as an extra and billed accordingly. If any ledge is encountered during this project and has to be removed, it will be billed on a time and material basis with the owner's approval. Payment terms are 25% down, final payment upon completion.

If you have any questions, please do not hesitate to contact me. If you would like Northwoods to do this project, please sign, date and return a copy of this letter to the above address and this project will be scheduled.

Sincerely yours,

Zebulon Jenks,  
Superintendent  
Northwoods Excavating Inc.



Chris Bump  
Vermont Agency of Transportation  
221 Beswick Drive  
White River Junction, Vermont 05001

April 13, 2016

Alan May  
Vermont Better Roads Program  
One National Life Drive  
Montpelier, VT 05633-5001

Dear Alan:

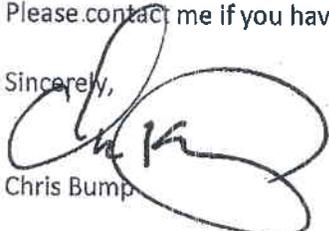
I am writing this letter of support for Thetford for their Better Roads Grant application projects. On April 6<sup>th</sup>, Michael Blakslee and I met with the Town Road Foreman, Chad Martin, and the Town Project Manager, Mary Ellen Parkman to view the proposed improvements.

We visited sites where roadway erosion was occurring on Gove Hill Road, Sawnee Bean Road, Miller Pond Road, Vaughn Farms Road and Latham Road.

At each site we discussed the existing problem and potential repairs. I support each of these sites as priority sites for the Town and feel comfortable that the Town has partnered with a qualified contractor who will assist the Town in meeting the recommendations in accordance with the Vermont Better Backroads manual to eliminate soil erosion and improve water quality at each of these locations.

Please contact me if you have any questions or need additional information.

Sincerely,

  
Chris Bump



**Mary Ellen Parkman**

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**From:** Ross, Patrick <Patrick.Ross@vermont.gov>  
**Sent:** Thursday, April 14, 2016 1:19 PM  
**To:** 'zoning@thetfordvermont.us'  
**Cc:** publicworks@thetfordvermont.us  
**Subject:** Thetford - Better Roads projects 2016

Hi Mary Ellen and Chad,

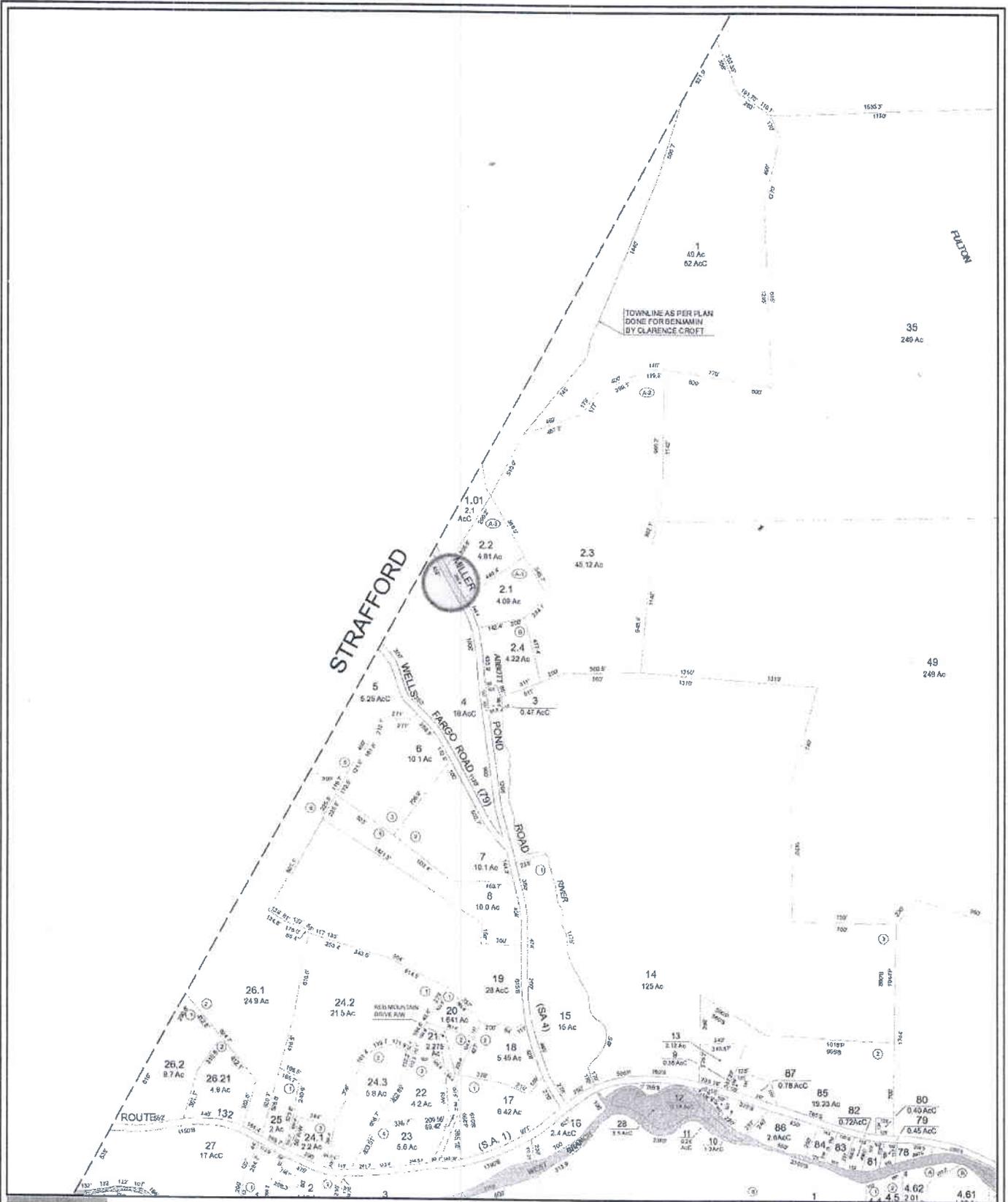
Per our conversations and field reviews of the Latham Road culvert (bridge #15) replacement, Miller Pond Road erosion sites and the Sawnee Bean Road sites. All these projects will be net positive for water quality and flood resiliency and will qualify for the VT Stream Alteration General Permit (SAGP). Please use this short note in your Better Roads Grant as confirmation that we have collaborated on these issues and as an endorsement of support for funding.

As a note, we will need to continue our discussion and work together on the Latham Road replacement structure to ensure it meets the current VTANR SAGP.

Regards,

Patrick Ross, P.E.  
[Patrick.Ross@Vermont.Gov](mailto:Patrick.Ross@Vermont.Gov)  
1229 Portland Street  
St. Johnsbury, Vermont 05819  
802.279.1143





Thetford Vermont  
 Miller Pond Road - Bank Stabilization Project, Sites #1-3  
 1 Inch = 1000 Feet  
 April 13, 2016



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