



FY17 Vermont Better Roads Grant Application

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

Town/Organization: Town of Grafton Contact Person(s): Danny Taylor

Address: PO Box 180, Grafton, VT 05146

Email: grafton@vermontel.net Phone: (802) 843 - 2456

DUNS #: 41392143 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



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 Grafton

Project Name: Windham Hill Roadway Project

Road Name: VT Route 121 West TH #: 1 Structure # (if applicable): _____

Road Type: Paved Uncurbed

Class 2

Watershed: Saxon's River

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

The roadway is very steep and culverts are undersized and rotten, causing them to fail. They also do not meet the minimum 18" standard. Road base has failed which has caused heaving and cracking. The ditch lines need to be redone and stone lined.

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):

Reditch 2,640 feet and stone line the ditches with 508 tons of 7 inch stone. We will also replace the eight failed culverts with new 18" culverts and add an additional two 18 foot culverts. Culvert will have precast inlet headers and splash pans on outlets.

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

Due to the addition of the two culverts, the replacement of the existing culverts, re-ditching and stone lining, the erosion of the roadway would be eliminated, thus improving anticipated changes in the water quality of the Saxon River.



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 250'+

Progress to Date:

No work has been done as of this date.

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

No.

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: Culvert 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.):

Windham Regional Commission
ANR River Management Engineer
Vtrans District Staff

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).

Yes.



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

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

In Kind Match (Highway Crew Labor) and/or funds from the Capital Budget or Town Highway Budget.

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): \$ 46,577.20

Estimated Completion Date: 10/10/2016

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: Joseph A. Perrin

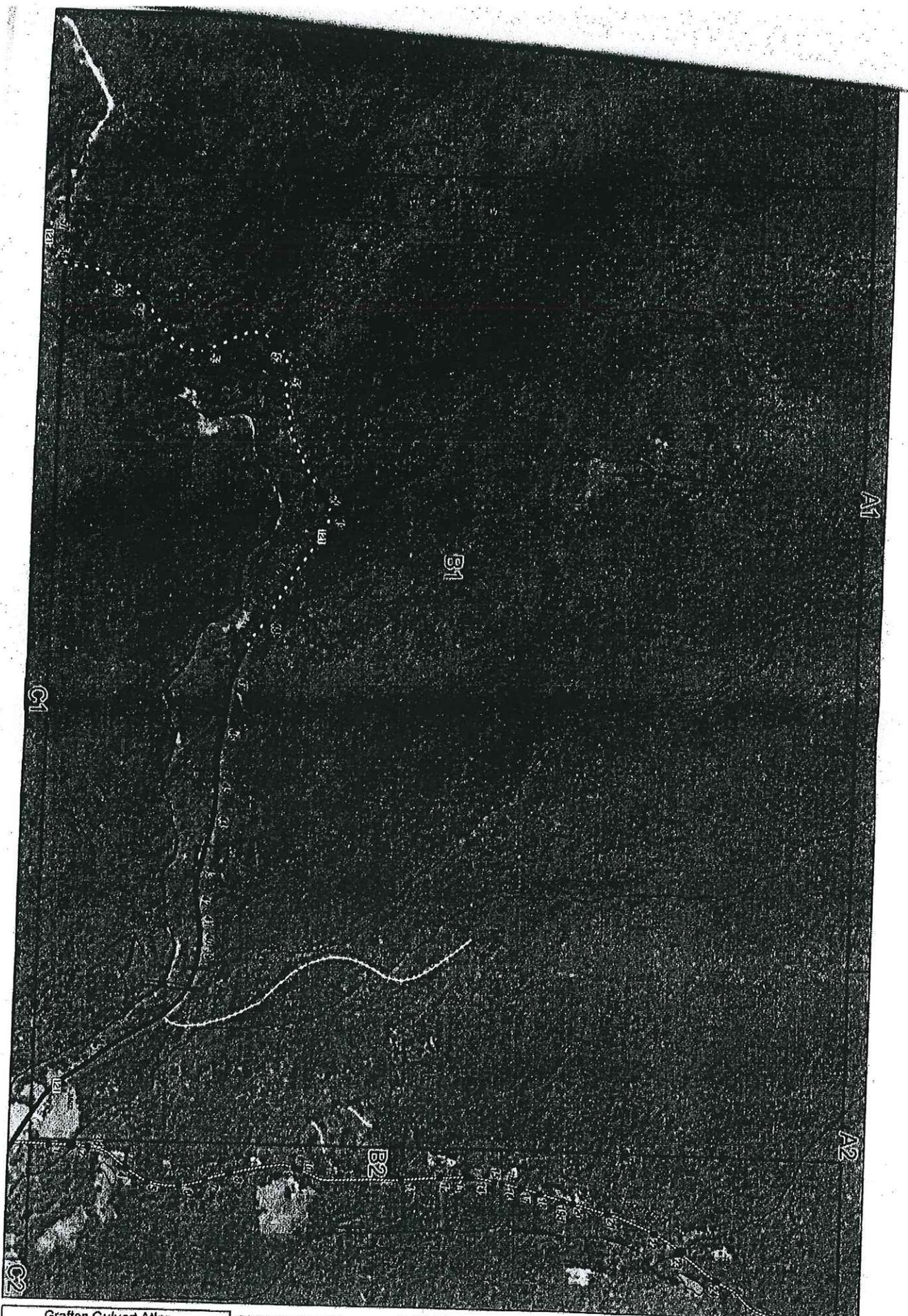
Title: Chairman

Grafton culverts 2013

Road Name	Culvert Number	Culvert Material	Culvert Condition	Height (in.)	Width (in.)	Length (ft.)	Header Material	Header Condition	Year Built	Needs Cleaning	Comments
HOUGHTONVILLE RD	40	Steel Corrugated	Fair	15	15	35	Stone masonry	Good			moderate rust
HOUGHTONVILLE RD	41	Steel Corrugated	Fair	15	15	35	Stone masonry	Good			moderate rust
HOUGHTONVILLE RD	42	Steel Corrugated	Poor	15	15	35	Stone masonry	Good			heavy rust
HOUGHTONVILLE RD	43	Steel Corrugated	Poor	15	15	40	Stone masonry	Good			heavy rust
HOUGHTONVILLE RD	44	Steel Corrugated	Fair	15	15	43	Stone masonry	Good			moderate rust
HOUGHTONVILLE RD	45	Steel Corrugated	Fair	15	15	33	Stone masonry	Good			moderate rust
HOUGHTONVILLE RD	46	Steel Corrugated	Fair	15	15	35	Stone masonry	Poor			moderate rust
HOUGHTONVILLE RD	47	Plastic Smooth	Good	18	18	46	Stone masonry	Good			
HOUGHTONVILLE RD	48	Plastic Smooth	Good	24	24	40	Stone masonry	Good			
HOUGHTONVILLE RD	49	Plastic Smooth	Good	24	24	35	None				
HOUGHTONVILLE RD	50	Steel Corrugated	Good	60	84	55	Concrete	Good			
HOUGHTONVILLE RD	51	Plastic Smooth	Fair	15	15	40	None				
HOUGHTONVILLE RD	52	Steel Corrugated	Good	72	72	45	Concrete	Good			moderate rust
HOUGHTONVILLE RD	53	Steel Corrugated	Fair	18	18	40	Stone masonry	Good			moderate rust
HOUGHTONVILLE RD	54	Steel Corrugated	Good	15	15	30	None				moderate rust
HOUGHTONVILLE RD	55	Steel Corrugated	Fair	15	15	40	Stone masonry	Good		Yes	moderate rust
HOUGHTONVILLE RD	56	Steel Corrugated	Poor	12	12	40	None				moderate rust
HOUGHTONVILLE RD	57	Steel Corrugated	Fair	18	18	40	Stone masonry	Good			heavy rust

Grafton culverts 2013

Road Name	Culvert Number	Culvert Material	Culvert Condition	Height (in.)	Width (in.)	Length (ft.)	Header Material	Header Condition	Year Built	Needs Cleaning	Comments
HOUGHTONVILLE RD	21d	Plastic Smooth	Good	15	15	34	Stone masonry	Good			
HOUGHTONVILLE RD	23d	Corrugated Steel	Fair	12	12	80	None				moderate rust
HOUGHTONVILLE RD	24	Corrugated Steel	Fair	15	15	38	Stone masonry	Good			
HOUGHTONVILLE RD	25	Corrugated Steel	Fair	15	15	40	Stone masonry	Good			moderate rust
HOUGHTONVILLE RD	26	Plastic Smooth	Good	18	18	40	Stone masonry	Good			
HOUGHTONVILLE RD	27	Plastic Smooth	Good	18	18	50	Stone masonry	Good			
HOUGHTONVILLE RD	28	Plastic Smooth	Good	18	18	35	Stone masonry	Good			
HOUGHTONVILLE RD	29	Corrugated Steel	Good	20	20	35	Stone masonry	Good			moderate rust
HOUGHTONVILLE RD	30	Plastic Smooth	Excellent	24	24	45	Stone masonry	Good			Irene culvert
HOUGHTONVILLE RD	31	Plastic Smooth	Excellent	18	18	40	Stone masonry	Good			Irene culvert
HOUGHTONVILLE RD	32	Plastic Smooth	Good	18	18	36	Stone masonry	Good			
HOUGHTONVILLE RD	33	Corrugated Steel	Good	20	20	30	Stone masonry	Good			moderate rust
HOUGHTONVILLE RD	34	Plastic Corrugated	Good	18	18	50	Stone masonry	Good			
HOUGHTONVILLE RD	35d	Corrugated Steel	Good	12	12	15	Stone masonry	Good			
HOUGHTONVILLE RD	36	Plastic Smooth	Good	18	18	46	Stone masonry	Good			
HOUGHTONVILLE RD	37	Corrugated Steel	Fair	15	15	36	Stone masonry	Good		Yes	moderate rust
HOUGHTONVILLE RD	38	Corrugated Steel	Good	72	48	42	Stone masonry	Good			moderate rust
HOUGHTONVILLE RD	39	Corrugated Steel	Fair	12	12	35	Stone masonry	Good			moderate rust



Grafton Culvert Atlas
Sheet B1

0 200 400 600 800 1 000 Feet

Culvert data as of spring 2013.
 Aerial photo taken Summer 2011.
 Map printed July 2014.

- Culvert, diameter 36 - 71 inches
- Culvert, diameter 72 inches and greater
- Bridge

Map by Windham Regional Commission, Brattleboro, VT,
 July 2014. c:\ToandGrafton\Map\Culverts_2013_Atlas.mxd



Grafton Culvert Atlas
Sheet B1

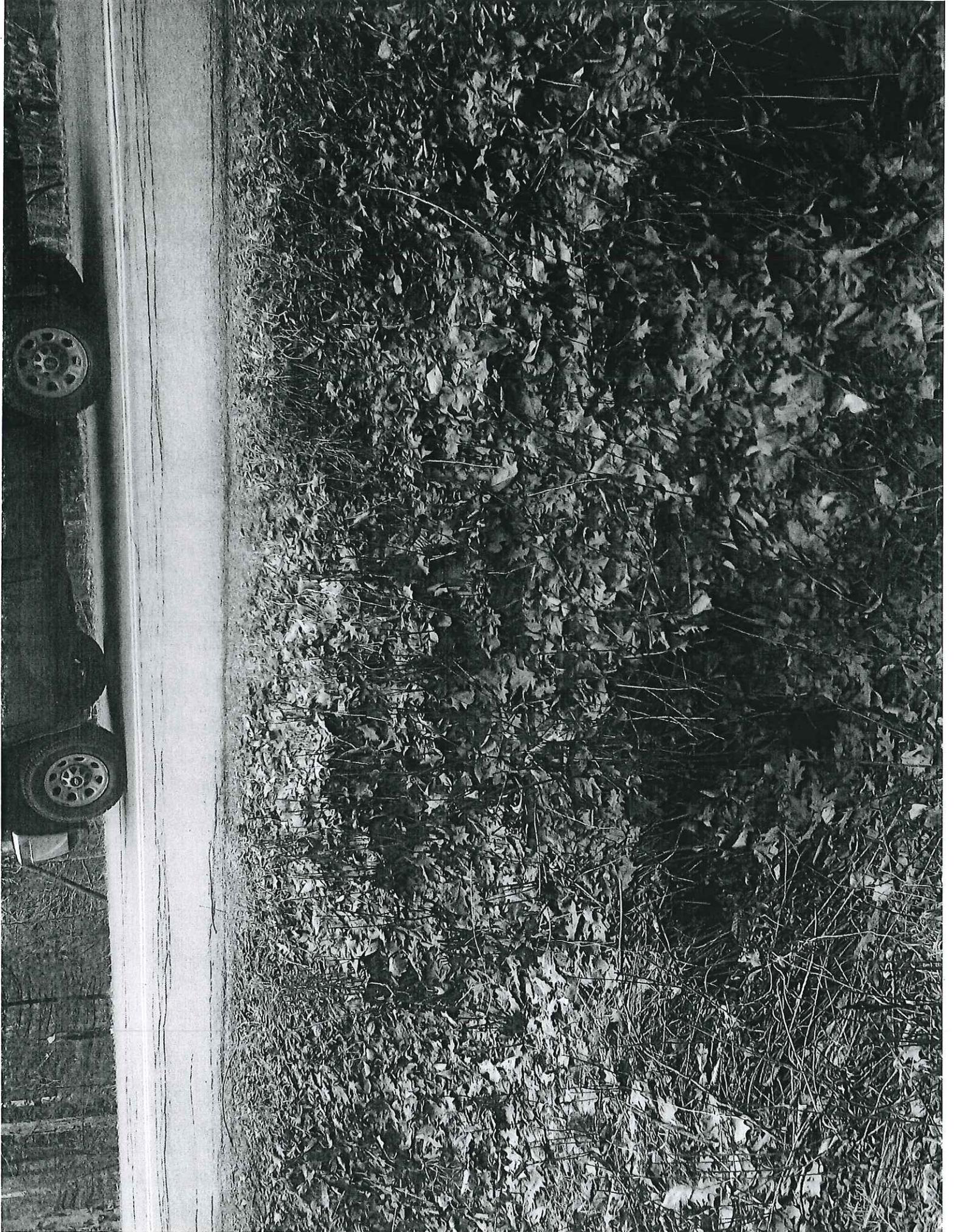
Culvert data as of spring 2013.
 Aerial photo taken Summer 2011.
 Map printed July 2014.

- Culvert, diameter 6 - 35 inches
- Culvert, diameter 36 - 71 inches
- Culvert, diameter 72 inches and greater
- Bridge

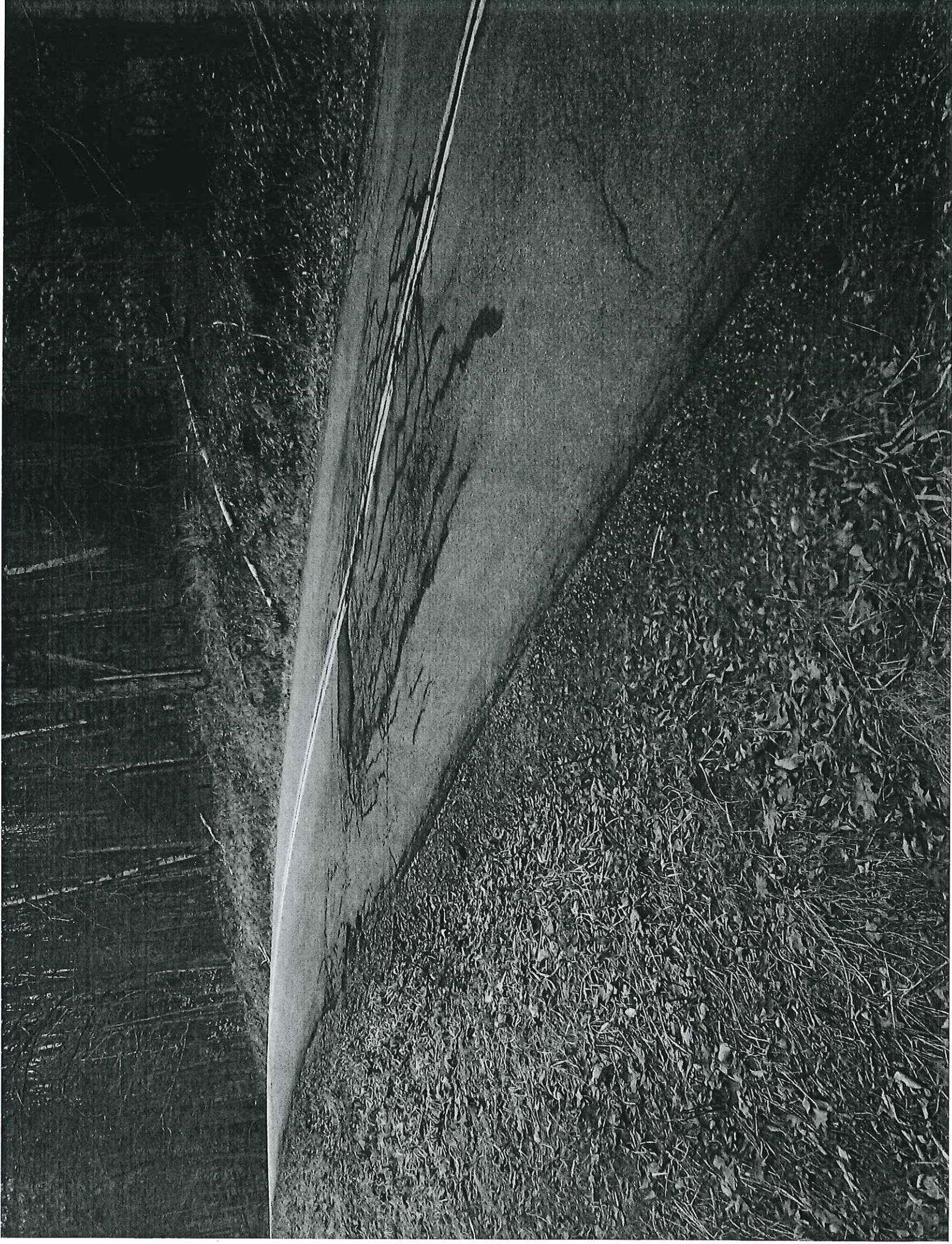
Map by Windham Regional Commission, Brattleboro, VT
 July 2014 © TownsGraftonMaps\Culverts_2013_Atlas.mxd















April 6, 2016

Ms. Emily Huff
Town Administrator
Town of Grafton
PO Box 180
Grafton, VT 05146

Dear Emily:

I am pleased to provide a letter of support for the Town of Grafton's application submission for a Category A and D Better Back Roads grant. Category A will provide an opportunity to update the town's culvert and bridge inventory; as well as conduct the road erosion inventory. For Category D, the culvert upgrades along VT121 are much needed and will improve the water quality and aquatic organism passage, along this section of town highway.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Matt Mann". The signature is written in a cursive style with a horizontal line extending to the right.

Matt Mann
Senior Transportation Planner