



Vermont Better Roads Grant Program



Cover Sheet

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

Town/Organization: Town of Derby

Primary Contact Person (Responsible for Signing Grant Agreement): Bob Kelley

Title: Town Administrator

Address: 124 Main Street Derby, VT 05829
Street Address Town Zip

Primary Contact Person Email: bob.kelley@derbyvt.org Phone: (802) 766-2017

SAM unique ID #: ETNBPC3RMSX7 Fiscal Year End Month (MM): 12

Town Clerk / Admin email: Faye Morin derbytownclerk@derbyvt.org

Road Foreman Name: Tom Pratt Road Foreman Email: derbygarage@derbyvt.org



Vermont Better Roads Grant Program



CATEGORY B/C/D

Please complete one application per project you are applying for.

Please check the Category you are applying for:

- B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation
- C. Correction of a Stream Bank, Lake Shore or Slope Related Problem
- D. Structure/culvert 36" diameter or greater

Municipality: Town of Derby

Road Name: Darling Hill Road TH #: 04 Structure # (if applicable): 241, 242, 243, 244, 245

Poulin Farm Rd TH #: 11 Structure # (if applicable): 632

Darling Hill Road

Road Type: Paved or Unpaved (select one) Road Class: 1 2 3 4 (select one)

Poulin Farm Road

Road Type: Paved or Unpaved (select one) Road Class: 1 2 3 4 (select one)

Please provide a thorough description of the erosion/water quality problem (ex. Roadway has steep slope with no ditch which is causing severe roadway erosion, which outlets into the Lamoille River):

Culverts are undersized and cause drainage problems during heavy rain events.

Has the town completed an MRGP compliant road erosion inventory?

- Yes
- No
- In progress

Project Length (linear feet along roadway): 450 ft.

Number of structures/culverts replaced/repared: 6 culverts to be replaced

Average slope of roadway: 0-5% 5-10% >10%

Provide a VERY detailed map of project location showing start and end points: Included

Provide a sketch of project location showing distances and project details: Included



Vermont Better Roads Grant Program



Environmental Concerns:

All projects require a review of potential impacts by our environmental team. To expedite the review process, please check the boxes below that describe existing structures/conditions to be replaced/maintained (if any) and the project description that applies (if any).

Existing Structures:	
<input checked="" type="checkbox"/> Steel/Plastic Culvert	<input type="checkbox"/> Concrete Box Culvert
<input type="checkbox"/> Stone Culvert – Take pictures	<input type="checkbox"/> Concrete Bridge
<input checked="" type="checkbox"/> Ditch	<input type="checkbox"/> Rolled Beam/Plate Girder Bridge
<input type="checkbox"/> Foundation remains, mill ruins, stone walls, other – Take pictures	<input type="checkbox"/> Stone abutments or piers – Take pictures
<input type="checkbox"/> Buildings within 300 feet of work - Take pictures	
Project Description:	
<input type="checkbox"/> New ditches will be established	<input checked="" type="checkbox"/> All work will be completed from the existing road or shoulder
<input type="checkbox"/> Reestablishing existing ditches only	<input type="checkbox"/> There will be excavation within 300 feet or a river or stream – Take pictures
<input checked="" type="checkbox"/> The structure is being replaced on existing location/alignment	<input type="checkbox"/> Road reclaiming, reconstruction, or widening
<input type="checkbox"/> Excavation within a floodplain – Take pictures	<input type="checkbox"/> Temporary off-road access is required
<input type="checkbox"/> Tree cutting/clearing – Take pictures	<input type="checkbox"/> The roadway will be realigned

Please describe the project and how it will create a positive water quality benefit (ex. Reshape 500' of ditch and line with 12 inch minus stone, to prevent sediment from entering the Lamoille River at the bottom of the hill):

Replace the existing undersized culverts with 18 inch diameter culverts to bring them into compliance with our Road and Bridge Standards. This will keep the water from backing up and causing problems during heavy rain events. We have included the culvert on Poulin Farm Road because when we repave Darling Hill Road we will be paving an apron on Poulin Farm Road and would like to replace the culvert before it is pave. Paving is scheduled for 2005.

Please list any professionals or partners that assisted with planning this project (ANR River Management Engineer, Army Corps of Engineers, VTrans staff, Basin Planner, RPC staff, etc.):

N/A.

Is the project located in the town "Right of Way? (select one) Yes No Both

Please be aware, Municipalities are required to have an Agreement for Entry & Liability Release for any impacted properties (prior to the start of construction.)



Vermont Better Roads Grant Program



Budget:

Please attach a project budget and confirm below that is attached:

Project budget IS attached

Are you applying to other grant programs to help fund this project?

We are not applying for other grant programs to fund this project.

If so, what programs? Please note that Better Roads requires a 20% local match and Better Roads funding may not be used as match for other state or federally funded programs.

Requested Grant Amount:	<u>\$ 20,000.00</u>
+	
Local Match:	<u>\$ 5,689.42</u>
=	
Total Project Cost:	<u>\$ 25,689.42</u>

Requested Grant Amount Max:
 \$20,000 Category B
 \$40,000 Category C
 \$60,000 Category D

See page 6 for more information on calculating match

Estimated Completion Date: Fall 2024

REQUIRED ATTACHMENTS:

Please use the documentation checklist below to ensure that all of the relevant items regarding your application have been included. It is preferred that your application is a single PDF file.

- Grant application cover sheet
- Grant application form, including chart with RSID and MRGP compliance before and after project completion
- 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).
- Detailed Project Location Map
- Sketch of proposed project and erosion control measures or other management practices, including distances in feet
 - o Also show approximate location of town/other right-of-way and/or property lines and limits of work
- Photos must be color and clear to see.
 - o Please make sure there are enough photos to get a good idea of the project area
- 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:

Name: Bob Kelly Title: Town Administrator

MUST BE TOWN ADMINISTRATOR/MANAGER OR SELECT BOARD CHAIR



Vermont Better Roads Grant Program



Vermont Better Roads Category B/C/D Grant Proposal Scoring Criteria

All applications will be scored on a sliding scale elected by the Better Roads Grant Selection Committee. Road BMP upgrades are considered the highest priority for grant funding when road segments are “hydrologically-connected,” currently “not meeting” MRGP standards, and road slopes are greater than 10%

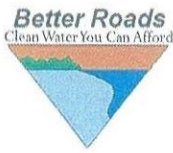
- 1. Is the project using Best Management Practices (BMPs) that are proven and likely to maximize long term success, such as practices contained within the new VTrans Better Roads Manual and/or VT DEC MRGP Standards?? [maximum 20 points]**
 - The proposed project utilizes appropriate BMPs and has maximized the likelihood of long-term success (16-20 points)
 - The proposed project utilizes some appropriate BMPs but more could be done to increase the likelihood of success (11-15 points)
 - The proposed project does not utilize appropriate BMPs, or it is unclear whether the BMPs will be used appropriately and the likelihood of success is uncertain (0-10 points)

- 2. What are the expected Water Quality Benefits within the watershed? [maximum 25 points]**
 - Project will lead to significant improvements to water quality (21-25 points)
 - Project will lead to moderate improvements to water quality (16-20 points)
 - Project will lead to small improvements to water quality (1-15 points)
 - Project will lead to no obvious improvements to water quality (0 points)

- 3. Is the project in or does stormwater runoff from the project area drain into a hydrologically connected segment? [maximum 20 points]**
 - Yes; the entire project is in connected segment(s) (20 points)
 - Partially; part(s) of the project are in connected segments (5-19 points)
 - No; this project is not in a connected segment (0-5 points)

- 4. Will the project result in full compliance of one or more segments in accordance with the Municipal Roads General Permit (MRGP)? [maximum 25 points]**
 - All segments within the project will be in full compliance (25 points)
 - One or more segments will be in full compliance, with all other segments in partial compliance (11 – 24 points)
 - One or more segments will be a minimum of partial compliance (1- 10 points)
 - Project does not meet compliance or not applicable (does not have hydrologically connected segments) (0 points)

- 5. Is the project cost effective? [maximum 10 points]**
 - The cost of the project is low and the expected benefits are high (8-10 points)
 - The cost of the project is average and the expected benefits are average (5-7 points)
 - The cost of the project is high and the expected benefits are low (0-4 points)



Vermont Better Roads Grant Program



Cost Estimate Worksheet

Town of Derby - Darling Hill & Poulin Farm Rds - Darling Hill Culvert Replacement Project

Labor	Rate	# Hours	Total
Road Crew time	\$ 36.00	90	\$ 3,240.00
			\$ -
			\$ -
			\$ -
Labor total			\$ 3,240.00
Equipment	Rate	# Hours	Total
10 wheeler dump truck	\$ 78.59	60.0	\$ 4,715.40
Excavator	\$ 57.67	30.0	\$ 1,730.10
Compactor	\$ 15.32	6.0	\$ 91.92
			\$ -
Equipment total			\$ 6,537.42
Materials	Rate	Amount	Total
Gravel / cubic yard	\$ 8.00	84	\$ 672.00
18" Culvert / linear ft	\$ 35.00	340	\$ 11,900.00
18" Culvert Band / each	\$ 70.00	12	\$ 840.00
Asphalt / ton	\$ 100.00	25	\$ 2,500.00
			\$ -
			\$ -
Materials total			\$ 15,912.00
Miscellaneous	Rate	Amount	Total
Miscellaneous total			\$ -
Grand Total			\$ 25,689.42
Town Match - 22%			\$ 5,689.42
GRANT REQUEST			\$ 20,000.00



Vermont Better Roads Grant Program



Questions and Technical Assistance

For questions regarding this application, general program related questions or for technical assistance please contact Alan May (802) 828-4585.

For questions related to projects affecting rivers and streams please contact the Agency of Natural Resources, River Management Engineers:

- Chris Brunelle, Northwest VT (802) 777-5328 or Chris.brunelle@vermont.gov
- Scott Jensen, Southeast VT (802) 490-6962 or Scott.jensen@vermont.gov
- Jaron Borg, Central VT & Northeast (802) 371-8342 or Jaron.borg@vermont.gov
- Josh Carvajal, Southwest VT (802)490-6163 or Joshua.carvajal@vermont.gov

For questions related to the Municipal Roads General Permit, please contact Evelyn Boardman, Municipal Roads Program Coordinator. (802) 636-7396 or Evelyn.boardman@vermont.gov

Project Completion Requirements

Categories B, C, and D

1. Submit a Municipal Invoicing Spreadsheet (available on the Better Roads website): <http://vtrans.vermont.gov/highway/better-roads>.
2. Four color photos of, during (2 photos) and after (2 photos) the project.
3. Copies of invoices/receipts and time sheets to document expenses and local match.



Vermont Better Roads Grant Program



River Management Engineer Support Letter

I am providing this letter of support to the Town/City/Village of Derby for their Better Roads grant application on Darling Hill TH 4, which will have an impact on None Mile Marker, Road Name/TH Number POULIN FARM TH 11 Name of River/Stream

Stream Alteration Permit Required for this project: Yes No

Upon review of the site, I have determined that the proposed project is eligible for a Stream Alteration Permit. Additionally, if this project is constructed according to the recommendations described below (see Comments), the following stream equilibrium and connectivity benefits will be achieved:

- Restores or enhances floodplain/access to floodplain
- Restores or enhances natural channel dimensions
- Establishes tree/shrub buffer
- Restores habitat (including aquatic organism passage)
- No additional benefits
- Further restricts or impacts the stream

None of these culverts are in a stream. They are simply road drainage culverts

Thank you for your consideration,

Signature

Comments:

Bob Kelley



Project Location Map

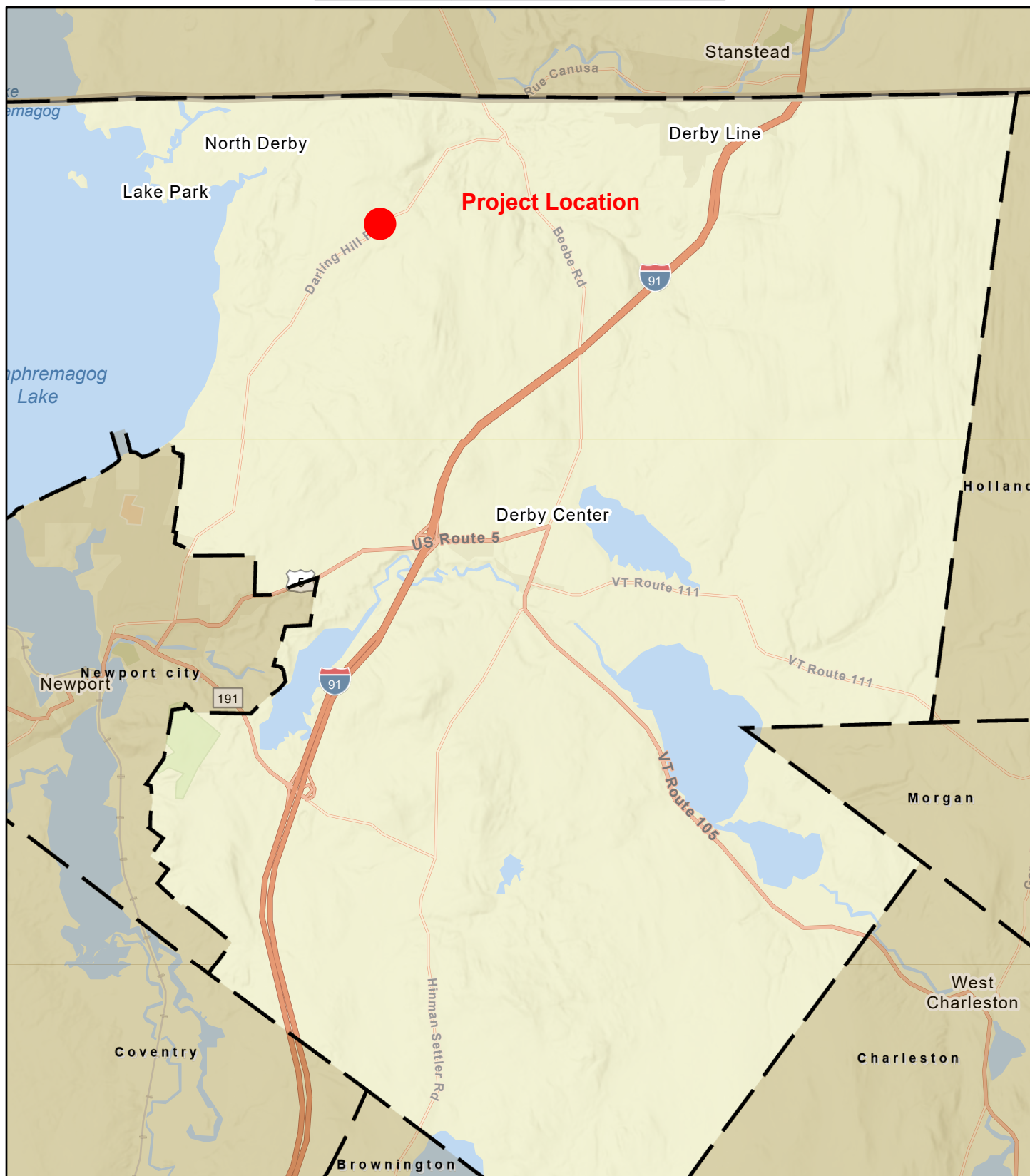
Town of Derby, VT

1 inch = 6000 Feet



www.cai-tech.com

November 14, 2023



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Project Location

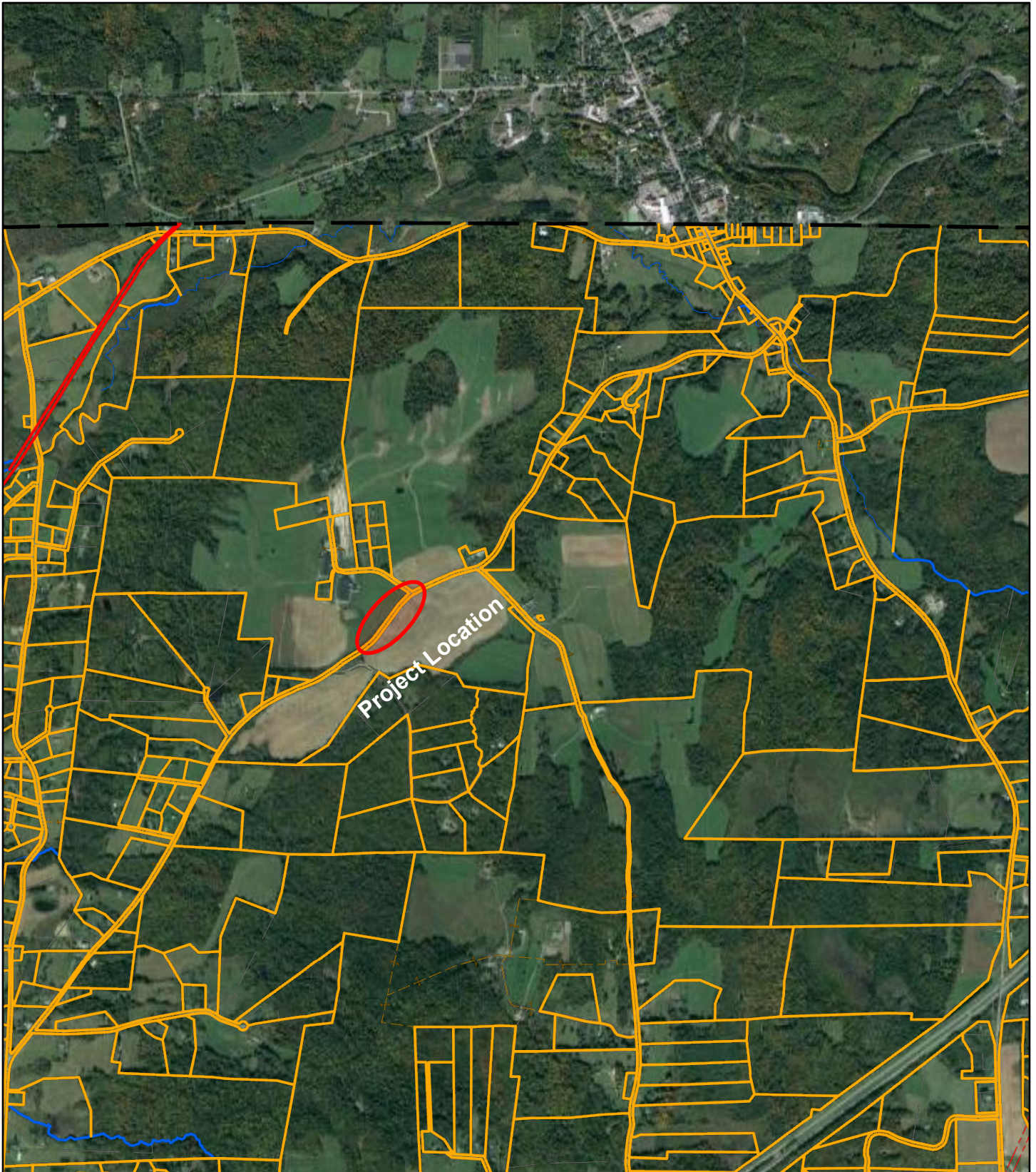
Town of Derby, VT

1 inch = 2000 Feet

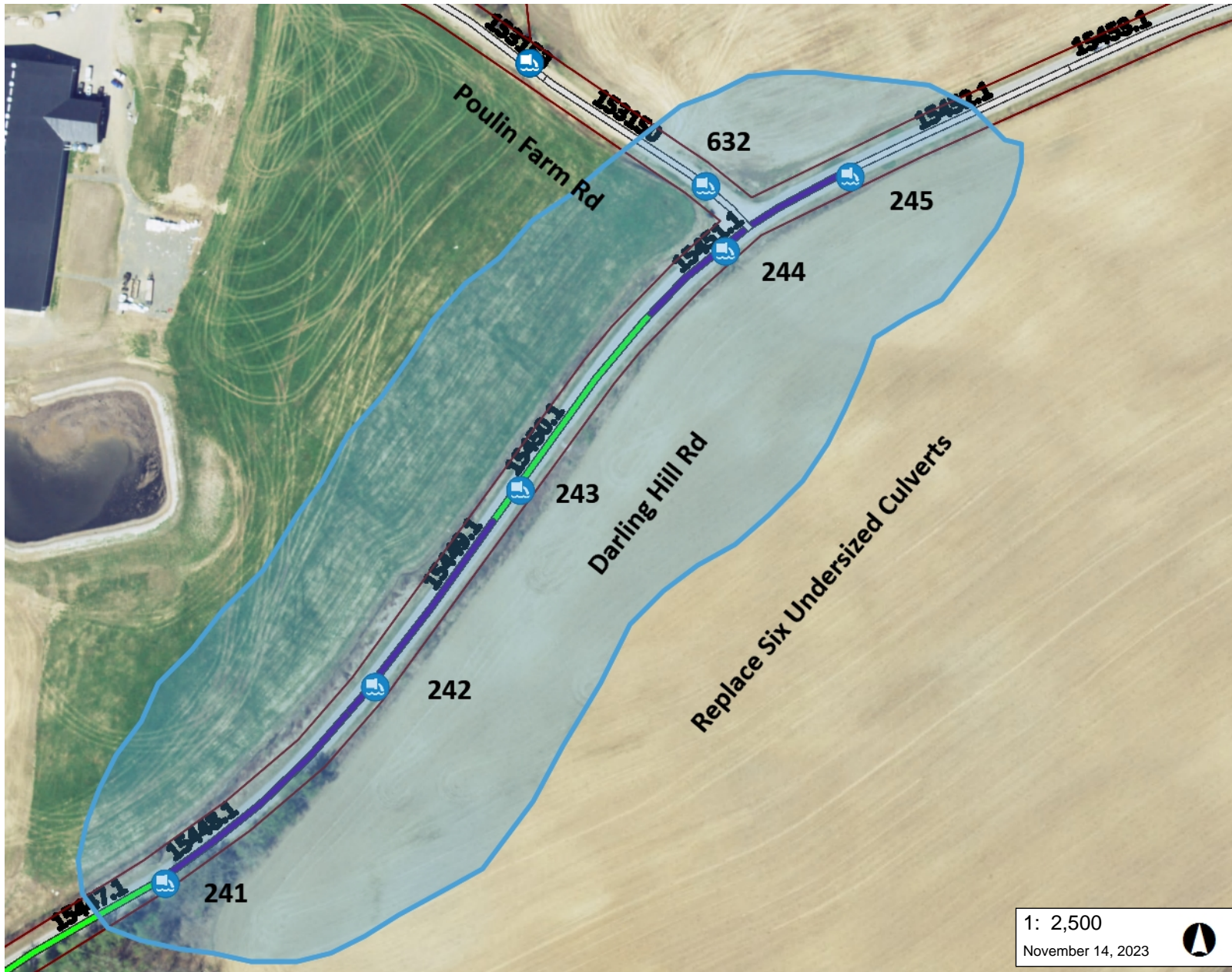


www.cai-tech.com

December 14, 2023



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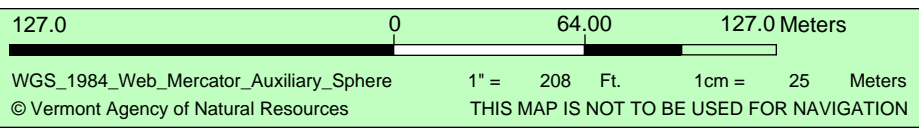
LEGEND

- Culvert
- MRGP Segment Scoring**
- Does Not Meet
- Partially Meets
- Fully Meets
- Incomplete Data
- Closed Drainage
- Not Connected; Not Town Highway
- Parcels (standardized)

1: 2,500
November 14, 2023

NOTES

Map created using ANR's Natural Resources Atlas



DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.



View from the Northern limit of the Project including Pouling Farm Rd on the right.



View from the Southern limit of the project



Typical view of undersized culverts to be replaced. This is a simple project so there isn't much to show. We will simply be replacing 6 undersized culverts.