



Municipal Highway and Stormwater Mitigation Program

VTrans Municipal Assistance Bureau

August, 2020

VTrans Municipal Mitigation Program

- ▶ Better Roads Program
 - ▶ Established in 1997 and formerly administered by local non-profit
 - ▶ In 2013 transitioned to VTrans oversight
 - ▶ Annual program, approximately \$3.0M in recent years, projects \$10k-\$75k
 - ▶ Constructed with State funding
- ▶ Municipal Highway and Stormwater Mitigation Program
 - ▶ New in 2017
 - ▶ Approximately \$1.5M available
 - ▶ Intended for larger environmental mitigation related projects, >\$250k construction
 - ▶ Federal funding



Program Funding

- ▶ Federal Highway Administration (FHWA) funds, ~\$1.5M
- ▶ 80% federal/state share, requires 20% local match
 - ▶ Local match typically cash match, in-kind match rarely approved



Eligibility

Any **environmental mitigation activity**, including **pollution prevention** and **pollution abatement** activities and mitigation to address **stormwater management**, control, and **water pollution prevention or abatement** related to highway construction or due to highway runoff.



Eligible Applicants

- ▶ Municipalities
- ▶ RPCs can apply for scoping projects on behalf of municipalities



Program Parameters

- ▶ No cap on funding for individual projects
- ▶ Applications accepted for scoping/planning or design and construction
 - ▶ No design only projects
- ▶ Design and construction projects must advance to completion or risk chance of payback
- ▶ Reimbursement program
 - ▶ Municipality pays for project costs and submits reimbursement request to VTrans

Potentially Eligible Project Types

- ▶ Planning Studies
 - ▶ Stormwater Inventories
 - ▶ Flow Restoration Plans
 - ▶ Phosphorus Control Planning
- ▶ Salt/Sand Sheds
- ▶ Bank Stabilization
- ▶ Culvert Replacement/Re-sizing
- ▶ Stream Bank Stabilization
- ▶ Detention Ponds
- ▶ Check Dams
- ▶ Swirl Separators
- ▶ Permeable Pavers
- ▶ Infiltration Basins
- ▶ Gravel Wetlands
- ▶ Subsurface Detention Systems
- ▶ Bio Filters
- ▶ Bio Retention Systems



Project Development Process

- ▶ Municipal Project Manager Selection
- ▶ Design Engineer Selection
- ▶ Conceptual Plan Development/Review
- ▶ National Environmental Policy Act (NEPA) Approval
- ▶ Preliminary Plan Development/Review
- ▶ Right-of-Way (ROW) Plan Development and Clearance
- ▶ Final Plan Development/Review
- ▶ Project Advertisement, Bidding, and Award
- ▶ Construction and Oversight
- ▶ Maintenance



**Typical project takes
2-4 years to complete**

Municipal Project Manager

- ▶ May assign a municipal employee if minimum qualifications are met
 - ▶ Required knowledge base:
 - ▶ Can read engineering plans
 - ▶ Organized
 - ▶ Knowledge of FA project development process
 - ▶ Time commitment of up to 40 hours per week
- ▶ Request For Proposals
- ▶ At-the-Ready Selection
- ▶ Projects where municipalities have hired an MPM have typically been much more successful



At-the-Ready Selection

- ▶ Available for MPM, Design Engineers, and Construction Inspectors
- ▶ VTrans has completed step one of two of the QBS process
- ▶ Pick from list of pre-qualified consultants
- ▶ Will still need to rank consultants and negotiate and contract with them



Design Engineer Selection

- ▶ RFQ/RFP or ATR

Conceptual Plan Development/Review

- ▶ Initial design
- ▶ Public involvement
- ▶ Requires 3 week Agency review



National Environmental Policy Act (NEPA)

- ▶ Minimum of 6 months to complete

Preliminary Plan Development/Review

- ▶ Requires 3 week Agency review

ROW Plan Development/Clearance

- ▶ Highly variable in schedule duration
- ▶ If no ROW acquisitions required for construction/maintenance, 1 month to clear
- ▶ If acquisitions are required
 - ▶ Simple: 6-12 months
 - ▶ Complicated 1- several years



Final Plan Development/Review

- ▶ Requires 3 week Agency review

Project Advertisement, Bidding and Award

- ▶ Use of VTrans - Municipal Assistance Bureau standard bid documents
- ▶ Low bid sealed bid process
- ▶ Three week minimum advertisement period

Construction and Oversight

- ▶ Municipality must provide oversight/resident engineering services
 - ▶ ATR or RFP/RFQ
- ▶ Materials Testing and Acceptance

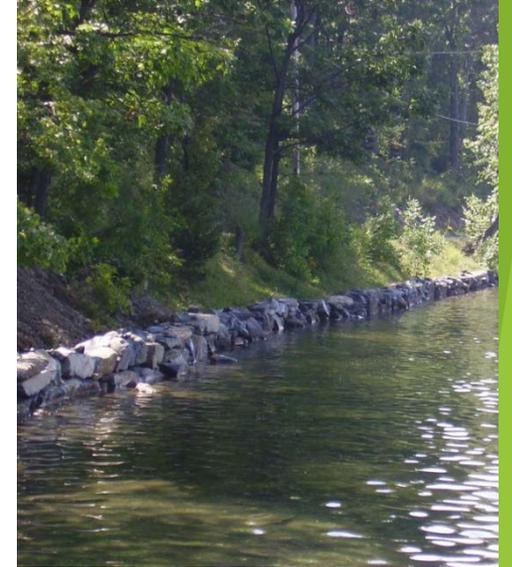
Maintenance

- ▶ Municipality must maintain project



Funding Requirements

- ▶ Buy America (steel & iron products)
- ▶ Davis Bacon Federal Wage Rates
- ▶ Proprietary Products not allowed without Public Interest Finding
- ▶ Project must be design and constructed in accordance with all federal/state/local permits and regulations



Examples of Candidate Projects

- ▶ Construction cost >\$250k
- ▶ Requires fully engineered design
- ▶ Treat substantial highway runoff
 - ▶ Non-highway runoff eligible, but projects that treat a higher portion of highway runoff are more likely to be awarded
- ▶ Clear water quality benefit
- ▶ Clearly fits within the program's eligibility requirements
 - ▶ Pollution prevention and pollution abatement activities
 - ▶ Mitigation to address stormwater management, control
 - ▶ Water pollution prevention or abatement related to highway construction or due to highway runoff



New bridge, Duxbury



Large culvert, Cambridge



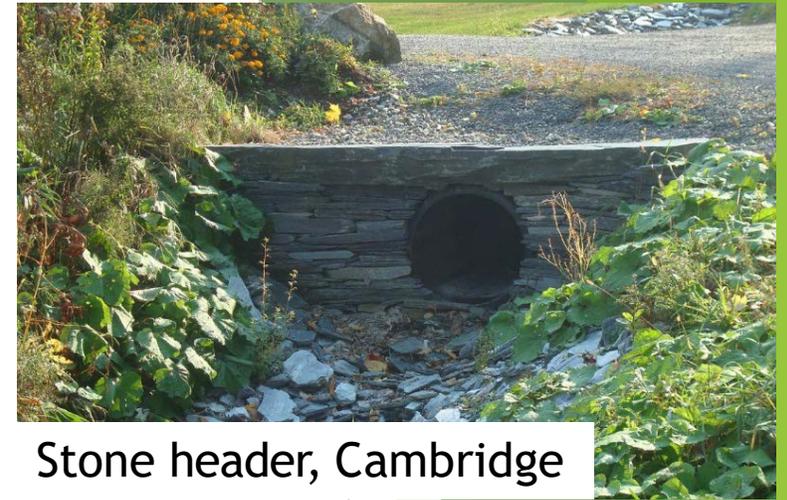
Retention pond, So. Burlington



Gravel wetland, St. Albans

Projects For Other Programs

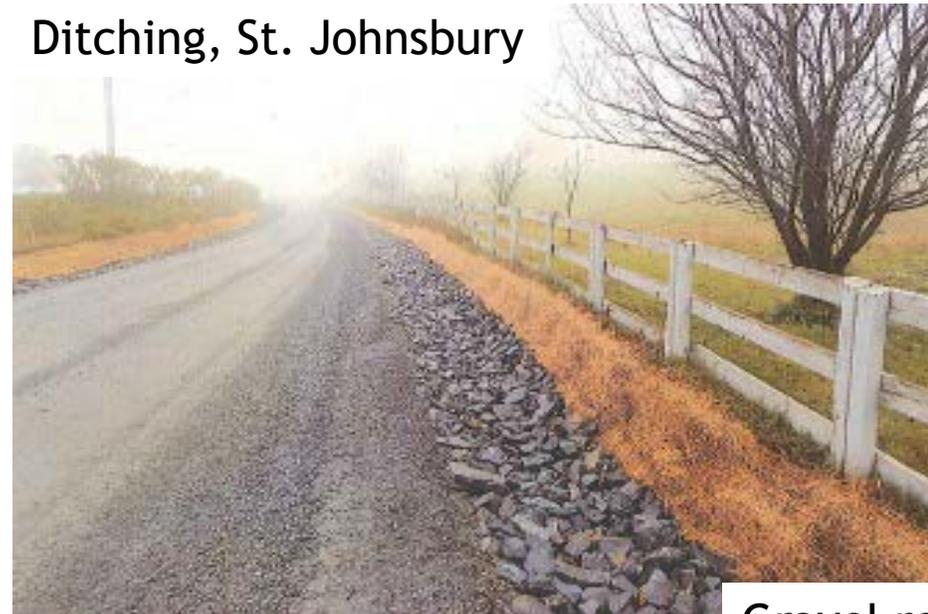
- ▶ No engineering required
- ▶ Small construction cost <\$250k
- ▶ Municipal crews plan to complete work
- ▶ Town will not be able to come up with 20% cash match



Stone header, Cambridge



Bank stabilization, Bloomfield



Ditching, St. Johnsbury



Gravel resurfacing, Westfield

Successful Applications Include:

- ▶ Maps that clearly depict project location
- ▶ Clear pictures of the problem
 - ▶ Write on pictures if it's not clear
 - ▶ If pictures cannot be taken, clearly describe the problem
 - ▶ Example: If a closed system has failed
 - ▶ Is it flooding basements?
 - ▶ Are there sinkholes in the street?
 - ▶ How often does this happen and how much sediment and pollutants are entering the water?
- ▶ Include detailed description of solution
- ▶ If available, include scoping reports and any preliminary engineering designs
- ▶ All questions are fully and clearly answered



Application Requirements

- ▶ Letter of Support from Regional Planning Commission
- ▶ If within State ROW:
 - ▶ Correspondence with VTrans District Transportation Administrator
 - ▶ Considerations for projects within the ROW may include:
 - ▶ Culverts/drainage
 - ▶ Signage
 - ▶ Driveway accesses
 - ▶ Maintenance
 - ▶ Comingling of stormwater
 - ▶ Lighting/security fences
 - ▶ Guardrail



How to apply:

<http://vtrans.vermont.gov/highway/Municipal-Highway-and-Stormwater-Mitigation-Program>

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Municipal Assistance Bureau - Local Projects

Park and Rides



MUNICIPAL HIGHWAY AND STORMWATER MITIGATION PROGRAM

Joel Perrigo

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In a commitment to improving the quality of state waters and providing funding to municipalities to assist in their efforts, the Vermont Agency of Transportation (VTrans) is pleased to announce this funding opportunity.

- [SFY 2019 Municipal Highway and Stormwater Grant Program](#) (New)
- [SFY 2019 Environmental Mitigation Grant Application](#) (New)

http://vtrans.vermont.gov/ Welcome to VTrans | Agenc... x

VERMONT OFFICIAL STATE WEBSITE VERMONT

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Welcome to VTrans

Providing for the safe and efficient movement of people and goods.

The Vermont Agency of Transportation (VTrans) plans, develops, implements, and manages a statewide transportation network - including roads, bridges, railroads, airports, park-and-rides, bicycle and pedestrian facilities, and public transportation facilities and services.

 Traveler Info	 Working With Us	 Improving Vermont
Amtrak	Advertised Projects	Fact Book & Annual Report
Commuting and Transit	Bids	Boards and Councils
Find a Park & Ride	CADD Help	Budget
Request a Road Map	Civil Rights	Construction Projects
Road Webcams	Estimating	Highway Safety
Road Conditions	Permits - Driveway etc.	State Transportation Improvement Program
Welcome Centers	Specifications	Strategic Plan
	More...	Vermont Local Roads Program

 511VT @511VT
Replacement of I-91 bridge between Exits 2-3 both NB and SB. Reduced to one lane, and speed restriction through the work zone. Delays likely
22h

 **VTransparency**
Public Information Portal

 **New England Compass**
Regional Road Conditions

 **DMV**
Registration & Licenses

 **Street Sweeping**

<http://vtrans.vermont.gov/>, click on 'Highways' in left border

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- Home
- A-Z Browse
- About
- Maintenance & Operations
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- Finance & Administration
- Highway**
 - Better Roads
 - CADD Help
 - Construction & Materials
 - Cost Estimating
 - Geodetic
 - Highway Safety
 - Municipal Assistance Bureau - Local Projects
 - Park and Rides
 - Right of Way & Utilities & Survey
 - Sign Information
 - Structures & Hydraulic
 - Bicycle and Pedestrian
 - Municipal Highway and Stormwater Mitigation Program



HIGHWAY

The mission of the Highway Division is to timely and cost effectively deliver quality programs and projects in support of the Agency's mission.

Better Roads	CADD	Construction & Materials
Cost Estimating	Geodetic	Highway Safety
Local Projects	Park & Rides	Sign Information
Structures & Hydraulic	Right of Way	



511VT
@511VT

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VTransparency

Public Information Portal

New England Compass

Regional Road Conditions

Street Sweeping Progress 2017

Click on 'Local Projects'

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SEARCH
CONTACT

- Home
- A-Z Browse
- About
- Maintenance & Operations
- Policy, Planning & Research
- Finance & Administration
- Highway
 - Better Roads
 - CADD Help
 - Construction & Materials
 - Cost Estimating
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MUNICIPAL ASSISTANCE BUREAU - LOCAL PROJECTS

Municipal Assistance Bureau (MAB) technical staff is assigned to work with, and support, the municipalities in the development of projects while providing oversight and guidance to ensure projects are developed in accordance with applicable design standards and federal and state regulations. Projects can reach into every area of transportation such as: development of scenic byway management corridor plans and other improvements to byways, stormwater improvement projects, development of bicycle and pedestrian facilities along with educational outreach, Safe Routes to School education and infrastructure improvements, municipal park and ride facilities, bridge improvements, roadway and intersection improvements, and a variety of transportation enhancements.

The Vermont Better Back Roads program is a unique addition to the MAB, and offers municipalities the opportunity to work with experienced and qualified staff to improve and enhance local roads through grant opportunities.

- **Annual Reports:**
 - [2016 Park and Ride Annual Report](#)
 - [2016 Bike and Pedestrian Annual Report](#)
 - [2016 Better Roads Annual Report](#)
 - [2016 Transportation Alternatives Annual Report](#)
- **MAB Guidebook, Appendix, and Project Bid Documents**
- **Bicycle and Pedestrian Program**
- **Transportation Alternatives**
- **Park-and-Rides**
- **Municipal Mitigation**
 - [Better Roads](#)
 - [Municipal Highway and Stormwater Mitigation Program](#)
- **FHWA Federal-aid Essentials (training videos and documents)**
- **Shared Documents and Templates**



Application



SFY 2018 Environmental Mitigation Grant Application

[Click here to enter text.](#)
(Municipal Contact Person)

[Click here to enter text.](#)
(Phone)

[Click here to enter text.](#)
(Mailing Address)

[Click here to enter text.](#)
(e-mail address)

Town/Village/City: [Click here to enter text.](#)

Specific location, street or road: [Click here to enter text.](#)

Is the project on or intersecting with a State maintained highway? Yes No

- Note: If yes, be sure to include documentation that you have notified the VTrans District Transportation Administrator of the intent to apply for funding and have provided them with a brief (one paragraph) description of the proposed project.

Does this project have a previously completed scoping or feasibility study? No
(If yes, please [attach](#) executive summary)

Note: Attach a map(s)/illustrations of the project area and clearly show the limits of the project. Color photos of the area are recommended.

Fiscal Information:
Accounting System Automated Manual Combination

DUNS # [Click here to enter text.](#)

Fiscal Year End Month [Click here to enter text.](#)

Is the municipality committed to exercising its right of eminent domain to acquire the rights to construct the project if necessary? No

Does this project already have existing funding? If so, please describe. Yes No

[Click here to enter text.](#)

Will you accept an award less than you applied for? Yes No

- If yes, please indicate whether local funds will be used to make up the shortfall, or if the project scope will be reduced. If the project scope is to be reduced, describe what part of the project (please be specific) you would accept partial funding for.

[Click here to enter text.](#)

Application Scoring Criteria:

- Please give a detailed description of the project. If applying for a stormwater treatment facility please include the estimated amount of stormwater runoff from the highway as a percentage of the total stormwater being treated. **(15 points max.)**

[Click here to enter text.](#)

- Please describe how this improvement provides for pollution prevention and pollution abatement activities and mitigation to address stormwater management, control, and water pollution prevention or abatement related to highway construction or due to highway runoff! **(35 points max.)**

[Click here to enter text.](#)

- What information or data is provided to substantiate the current pollution and/or stormwater problem and associated environmental impacts? **(15 points max.)**

[Click here to enter text.](#)

- What substantiating data or information is provided to show that the proposed project is an effective and manageable solution to the problem? **(35 points max.)**

[Click here to enter text.](#)

Provide a project cost estimate below (project costs below shall reflect total project costs which includes both grant and local funds). For scoping studies, use PE and Local Project Management lines only.

Preliminary Engineering (PE)
(Engineering, Surveying, Permitting) [\\$ Click here to enter value](#)

Right-of-way / Acquisition (ROW)
([attach](#) land acquisition and legal fees) [\\$ Click here to enter value](#)

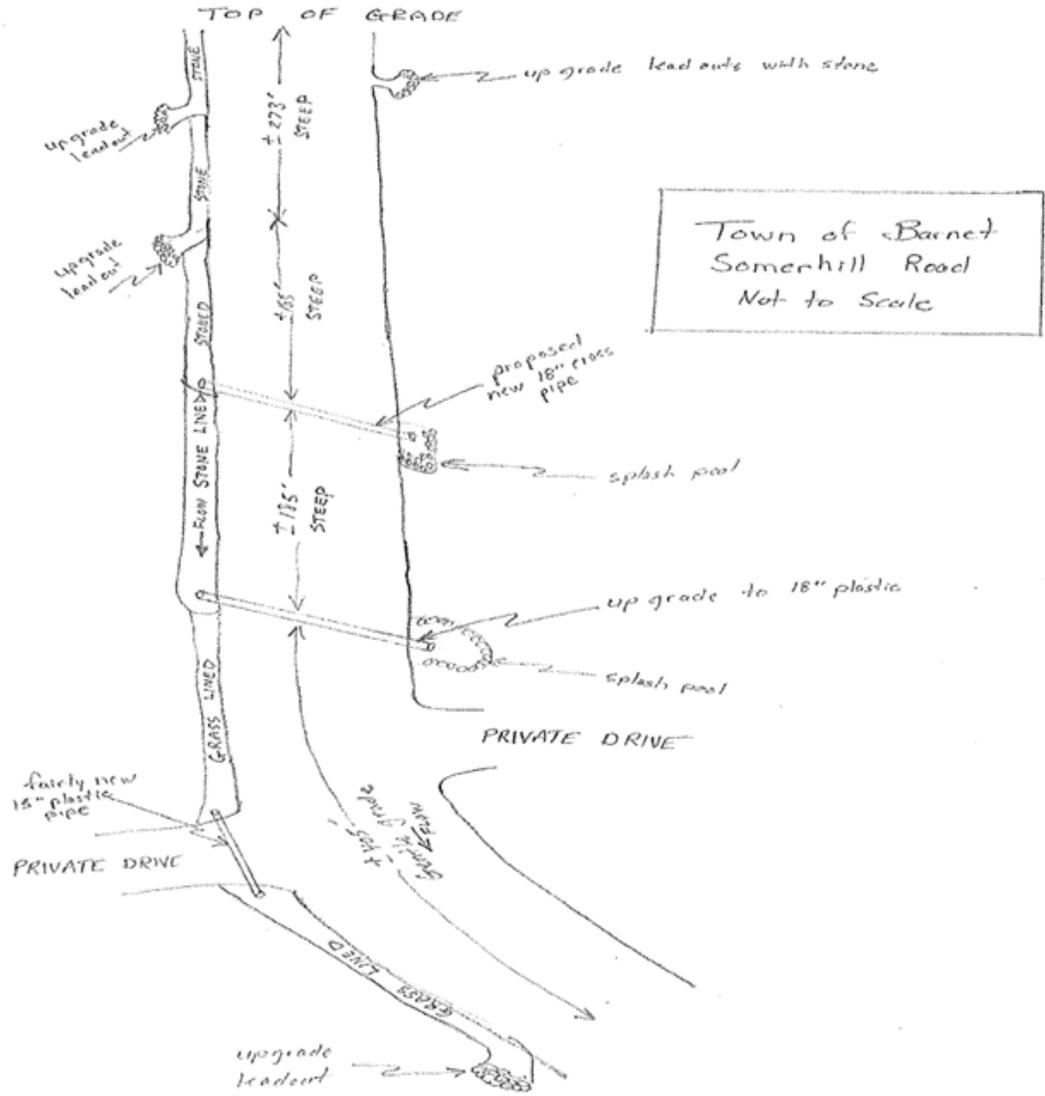
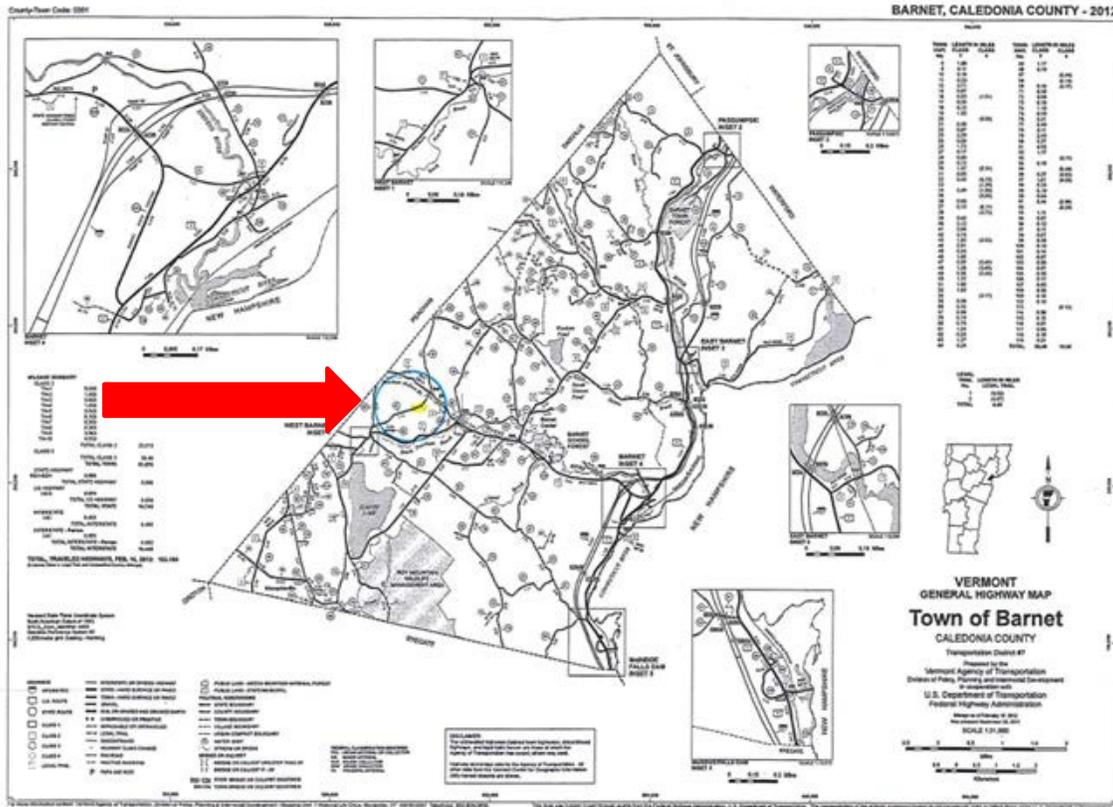
Construction
([attach](#) construction costs with reasonable contingency) [\\$ Click here to enter value](#)

Construction Engineering
([attach](#) to provide inspection during construction) [\\$ Click here to enter value](#)

Municipal Project Management Costs
(10% of total PE, ROW and Construction Phases is a good estimate). [\\$ Click here to enter value](#)

Total Project Cost [\\$ Click here to enter value](#)

Maps



Submission Format

- ▶ Electronically only

- ▶ Please submit as a single PDF file

Ross Gouin
VTrans Municipal Assistance Bureau
ross.gouin@vermont.gov

- ▶ Organization

1. Application form
2. Map
3. Pictures
4. Scoping study/engineering plans
5. Letters of Support
6. Any other misc. supporting documentation



Anticipated Program Schedule

- ▶ August 28 - Program Announcement and release of applications information
- ▶ September, Any program questions answered, applications prepared
- ▶ October 9, Applications due by 1:00 PM
- ▶ October 12-23, Site visits
- ▶ October 26 - November 6, Selection Committee Evaluations
- ▶ November 9, Project Awards announced





Applications due October 9th

Questions? - Please contact:

Ross Gouin

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