



VERMONT

AGENCY OF TRANSPORTATION

FY 2020 Municipal Highway Grant Application

APPLYING FOR: Structures Class 2 Roadway Emergency

MUNICIPALITY: East Montpelier MUNICIPAL CONTACT (name): C. Bruce Johnson

MAILING ADDRESS: PO Box 157, East Montpelier, VT 05651

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ACCOUNTING SYSTEM: Automated Manual Combination

DUNS #: 10 887 3704

Grantee FY End Month (mm format): 06

DISTRICT CONTACT (name): Shaun Clifford, D7 Project Manager

Phone: (802) 751-0213

E-Mail: shauna.clifford@vermont.gov

SCOPE OF WORK TO BE PERFORMED BY GRANTEE

Location of Work. The work described below involves the following town highway / structure:

TH# 1, (Name) County Road _____ which is a class 2 town highway.

Bridge # _____, which crosses _____

Culvert # K9,16 for which the original size was 3' and the replacement size is 4' minimum

Causeway: _____

Retaining Wall: _____

Latitude: N 44°28'58.91"

Longitude: W 72°54'46.79"

MM (If Available):

Problem:

Older culvert on main road is collapsing from outlet end, with damage extending into road edge

Reason For Problem:

Undersized culvert is a concrete sectional with little to no inlet or outlet protection beyond riprap; time has eaten away at both ends, especially the outlet end

Proposed Scope of Work:

Replace existing undersized 36" culvert with a 54" round polymer coated steel culvert, exceeding the minimum VTrans hydraulic study recommendations, with full-height, 14' long, reinforced concrete headwalls

Detailed Cost Estimate (below or attached):

Per March 20, 2019 proposal by Newton Technical Services; proposal attached

Estimated Project Amount: \$ 123,200.00

Estimated Completion Date: 11/01/2020

Municipality has complied with 19V.S.A. Section 309(d) regarding "complete streets."	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Municipality has adopted Codes & Standards that meet or exceed the State approved template?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Municipality has a current Network Inventory?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Municipality <u>MUST</u> complete the following environmental resource checklist:		
EXISTING STRUCTURES: (check all that apply)		
<input checked="" type="checkbox"/> Steel Tube Culvert	<input type="checkbox"/> Concrete Box Culvert	
<input type="checkbox"/> Stone Culvert	<input type="checkbox"/> Concrete Bridge	
<input type="checkbox"/> Ditch	<input type="checkbox"/> Rolled Beam/Plate Girder Bridge	
<input type="checkbox"/> Metal Truss Bridge	<input type="checkbox"/> Wooden Covered Bridge	
<input type="checkbox"/> There are foundation remains, mill ruins, stone walls or other	<input type="checkbox"/> Masonry Structure	
<input type="checkbox"/> Stone Abutments or Piers	<input type="checkbox"/> Buildings (over 50 yrs old) within 300 feet of work	
<input type="checkbox"/> Other:		
PROJECT DESCRIPTION: (check all that apply)		
<input type="checkbox"/> The project involves engineering / planning only	<input type="checkbox"/> The project consists of repaving existing paved surfaces only	
<input type="checkbox"/> The project consists of reestablishing existing ditches only within existing footprint	<input type="checkbox"/> All work will be done from the existing road or shoulder	
<input checked="" type="checkbox"/> The structure is being replaced on existing location / alignment	<input checked="" type="checkbox"/> There will be excavation within 300 feet of a river or stream	
<input type="checkbox"/> New structure on new alignment	<input type="checkbox"/> Repair/Rehab of existing structure	
<input type="checkbox"/> There will be excavation within a flood plain	<input type="checkbox"/> Road reclaiming, reconstruction, or widening	
<input type="checkbox"/> Tree cutting / clearing	<input checked="" type="checkbox"/> Temporary off-road access is required	
<input checked="" type="checkbox"/> New ditches will be established	<input type="checkbox"/> The roadway will be realigned	
The municipality has included photos of the project. Must show infrastructure and surrounding features as much as possible. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

Below this line to be filled in by VTrans staff:

Recommended Award Amount:

District Staff Approval: (name) _____ Date: _____

Note:
Projects may involve impacts to protected historic or archaeological resources. For more information, responsible parties are encouraged to contact the District staff.

East Montpelier, TH 1 County Road (near Morse Farm) over Brook

New 54" x 52' Polymer Coated Steel Pipe with Reinforced Concrete Headwalls

Item No.	Item Name	Quantity	Unit	Unit Price	Total
201.10	Clearing and Grubbing Incl. Individual Trees and Stumps	1	LUMP SUM	\$ 500.00	\$ 500.00
203.15	Common Excavation	130	CY	\$ 9.86	\$ 1,281.80
203.27	Unclassified Channel Excavation	25	CY	\$ 14.07	\$ 351.75
203.28	Excavation of Surfaces and Pavements	31	CY	\$ 22.87	\$ 708.97
204.25	Structure Excavation	201	CY	\$ 23.68	\$ 4,759.68
204.30	Granular Backfill for Structures	161	CY	\$ 41.27	\$ 6,644.47
210.10	Cold Planing, Bituminous Pavement	84	SY	\$ 2.03	\$ 170.52
301.35	Subbase of Dense Graded Crushed Stone	130	CY	\$ 32.09	\$ 4,171.70
406.25	Bituminous Concrete Pavement	70	TON	\$ 175.00	\$ 12,250.00
501.34	Concrete, High Performance Class B	27	CY	\$ 639.67	\$ 17,271.09
507.15	Reinforcing Steel	3,212	LBS	\$ 1.39	\$ 4,464.68
514.10	Water Repellent, Silane	10	GAL	\$ 70.79	\$ 707.90
608.25	All Purpose Excavator Rental, Type I	8	HOURS	\$ 89.50	\$ 716.00
613.11	Stone Fill, Type II	30	CY	\$ 44.64	\$ 1,339.20
621.60	Anchor for Steel Beam Guard Rail	4	EACH	\$ 754.90	\$ 3,019.60
621.75	Remove and Reset Guardrail (Modified)	487.5	LF	\$ 10.50	\$ 5,118.75
621.76	Replace Guardrail Post Assembly	8	EACH	\$ 51.97	\$ 415.76
621.77	Replace Guardrail Beam Unit	9	EACH	\$ 129.26	\$ 1,163.34
635.11	Mobilization/Demobilization	1	LUMP SUM	\$ 5,000.00	\$ 5,000.00
641.10	Traffic Control	1	LUMP SUM	\$ 3,500.00	\$ 3,500.00
646.20	4" White Line	100	LF	\$ 2.00	\$ 200.00
646.21	4" Yellow Line	100	LF	\$ 2.00	\$ 200.00
649.11	Geotextile for Roadbed Separator (for use under new pipe)	42	SY	\$ 1.60	\$ 67.20
649.31	Geotextile Under Stone Fill	65	SY	\$ 3.28	\$ 213.20
651.40	Grubbing Material	20	SY	\$ 5.25	\$ 105.00
	Survey, Design, Contract Plans & Bid Documents	1	LUMP SUM	\$ 12,000.00	\$ 12,000.00
	54" CGMP (polymer coated with 5 x 1 corrugations)	52	LF	\$ 127.00	\$ 6,604.00
	Erosion Prevention and Sediment Control	1	LUMP SUM	\$ 1,500.00	\$ 1,500.00
	Temporary Stream Diversion	1	LUMP SUM	\$ 1,500.00	\$ 1,500.00
	Streambed Stone Fill, Type EI	2	CY	\$ 60.00	\$ 120.00
	Installation of New Structure	1	LUMP SUM	\$ 1,000.00	\$ 1,000.00
	Turf Establishment (Seed, Fertilizer, Mulch, etc.)	1	LUMP SUM	\$ 1,500.00	\$ 1,500.00
				Sub-total	\$ 98,564.61
				Estimate Protection Factor	125.00%
				Rounded Total	\$ 123,200.00