



VERMONT

AGENCY OF TRANSPORTATION

FY 2021 Municipal Highway Grant Application

APPLYING FOR: Structures Class 2 Roadway Emergency

MUNICIPALITY: Richmond MUNICIPAL CONTACT (name): Peter Gosselin

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ACCOUNTING SYSTEM: Automated Manual Combination

DUNS #: 019336999

Grantee FY End Month (mm format): 06

DISTRICT CONTACT (name): Ashley Bishop

Phone: (802) 655-1580

E-Mail: ashley.bishop@vermont.gov

SCOPE OF WORK TO BE PERFORMED BY GRANTEE

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

TH# 14, (Name) Stage Road which is a class 3 town highway.

Bridge # _____, which crosses _____

Culvert # 1410, for which the original size was 60"x40' and the replacement size is 140"x70"x60'

Causeway: _____

Retaining Wall: _____

Latitude: 44.39

Longitude: 72.93

MM (If Available): _____

Problem:

Culvert is deteriorated and too short for the crossing. The hydraulic study concludes the culvert is undersized. Guardrails are tipping out from the road due to lack of shoulder. The center of culvert is bowed and showing signs of collapse.

Reason For Problem:

Aged and undersized drainage crossing culvert.

Proposed Scope of Work:

Replace 60"x40' road crossing culvert to a 140"x70"x60' corrugated metal arch pipe with poured in place concrete headwalls. Install new guardrails.

Detailed Cost Estimate (below or attached):

See attached

Estimated Project Amount: \$ 224,595

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? (less than 3 years old)	<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 checked="" 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 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.

TOWN HIGHWAY STRUCTURES FY 21 GRANT REQUEST

Location: Stage Road TH 14 (culvert #1410)

Description of existing structure:

The road crossing is 60 inch by 40 foot long corrugated asphalt coated metal culvert. The pipe has laid up stone for headwalls on the inlet and outlet ends. The inlet end of the pipe has a 20 foot high Hemlock tree growing out of the headwall. The slope on the inlet and outlet ends of the culvert are vertical approximately 90 degrees. The guardrails are sloping away from the culvert due to lack of shoulder.

Scope of work:

Replace existing 60" x 40' diameter drainage pipe with a 140" x 70" x 60' polymer coated corrugated metal arch pipe. Install poured in place concrete headwalls on both the inlet and outlet ends of the culvert. Remove and replace existing guardrails. Install detour sign package. Road closure should be approximately 10 days. Road reduced to one lane after culvert is installed for 2 weeks.

Item:

Mobilization / demobilization	lump sum	5000
Construction signage and traffic control devices	lump sum	5000
Excavation	all site work	100000
Guardrails remove and replace (150 lf)	200' @ \$30.00	6000
Culvert 140" x 70" x 60' arch pipe	60' @ \$262.00	15720
Culvert bands	520.00	1040
Retention sills	8 x 495.00	3960
Freight for new culvert	lump sum	600
Drainage stone	200 ton @ \$12.50	2500
Type III stone	50 ton @ \$16.50	825
Bank run gravel	200 ton @ \$10.00	2000
Plant mix gravel	150 ton @ \$13.00	1950
Jersey barriers	lump sum	10,000
Trucking	40 hours @ \$100.00	4000
Job site illumination	lump sum	3000
Inlet headwall (concrete)	lump sum	25000
Outlet headwall (concrete)	lump sum	25000
Topsoil seed and mulch	lump sum	3000
Engineering, easements and plans	lump sum	<u>10000</u>

Project total \$224,595

Maximum allowable project state grant funding \$175,000

State 80% match \$175,000

Town 20% match \$49,595

submitted by: Peter Gosselin 4-10-20