FY17 Vermont Better Roads Grant Application

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

Town/Organization: Town of Fairfield Contact Person(s): Amanda Forbes

Address: P. O. Box 5, Fairfield, Vermont 05455
Street Address *Town* *Zip*

Email: amanda@fairfieldvermont.com Phone: (802) 827 - 5478

DUNS #: 804692846 Fiscal Year End Month (MM): 12

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
- [x] D. Structure/culvert upgrades

Town/Organization: Town of Fairfield

Project Name: Barry Rd. Ditch and Culvert Project

Road Name: Barry Rd. TH #: 26 Structure # (if applicable): _____

Road Type: Unpaved Uncurbed

Class 3

Watershed: Black Creek

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

Roadway is on a relatively steep grade with with a history of road, culvert, and ditch erosion. Culverts involved are undersized. The have been times in previous years where the roadway and driveway culverts were washed out, and erosion and repair costs have been significant

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):

Our proposed plan would be to upgrade two roadway cross culverts and two drive culverts, Stone Line ditches where applicable, construct Check Dams and Plunge Pools.

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

We expect to significantly reduce or eliminate roadway, ditch and stream erosion and reduce constant maintenance costs.

Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 0-50'

Progress to Date:
Request Hydraulic Study from VTrans

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 currently being prepared with Northwest Regional Planning. ( ) 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.):
VTrans - Request Hydraulic Study.

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).
Both

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).
Yes, with the assistance of a hired excavator, which the Town does not have.

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

See Attached Estimate

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

With in-kind Labor & Equipment

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): $ 56,989.47

Estimated Completion Date: 10/30/2016

REQUIRED ATTACHMENTS:

- [x] Itemized Cost Estimate (labor, equipment, materials)
  (For assistance, call Better Backroads at 802-828-4585)
- [x] Project Location Map
  (Please show location of affected water; 1:12,000 USGS map, if possible)
- [x] Sketch of proposed erosion control measures, including:
  - [x] Distances (ft.)
  - [x] Estimate of waste & borrow quantities
  - [x] Approx. location of town/other right-of-way and/or property lines
- [x] Photo(s) of the project area.
- [x] 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: Tom Hovington Title: Chair

Town of Fairfield

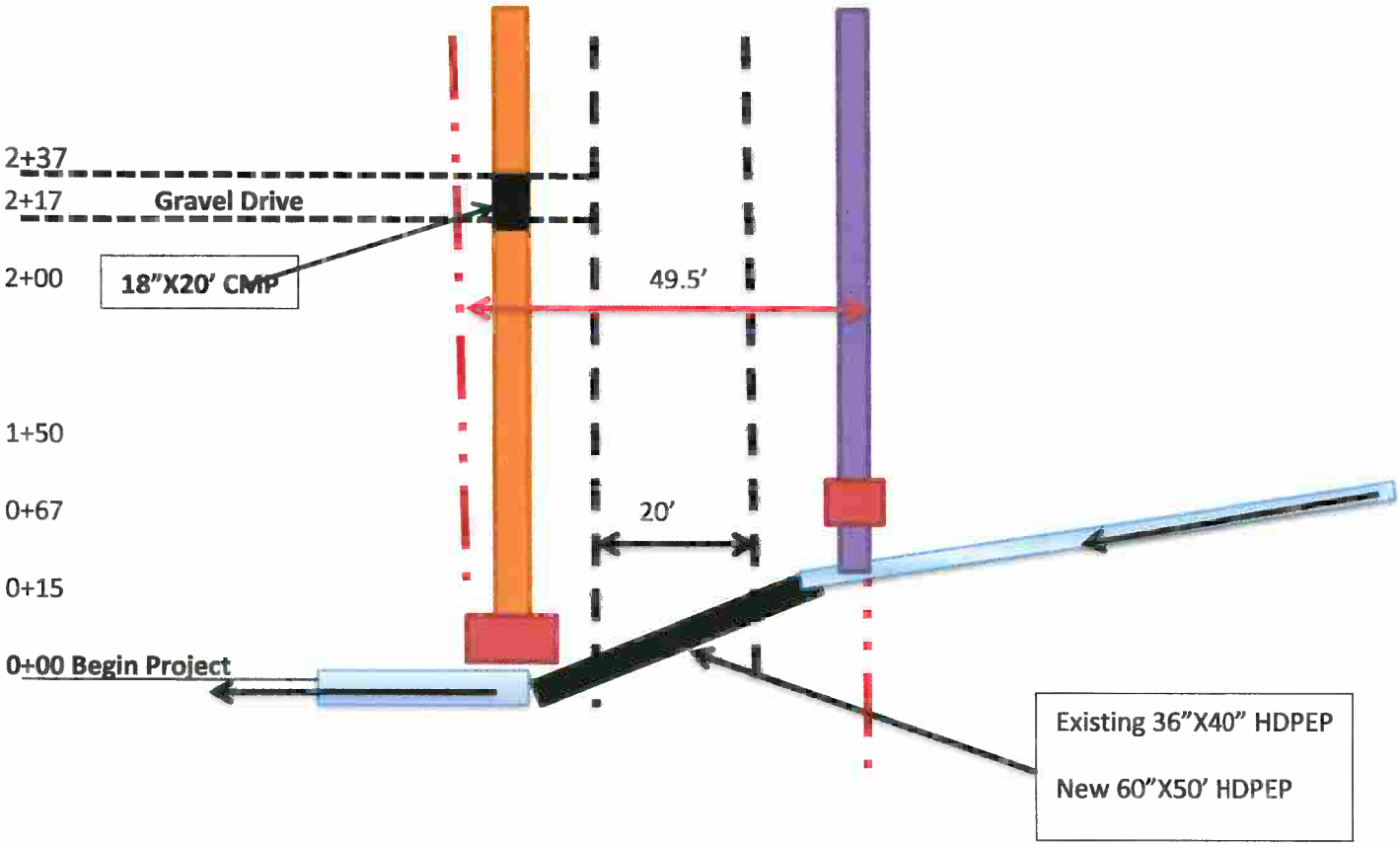
Barry Road – Proposed Better Roads Application – FY 2017

To Whom it may concern:

The Town of Fairfield has made application for this project without having the VTrans Hydraulic Study we requested a while back. We have made some "judgement calls" on what the culvert sizes may be, and have priced them out in our estimate accordingly.

Jim Smith – Project Coordinator

Town of Fairfield



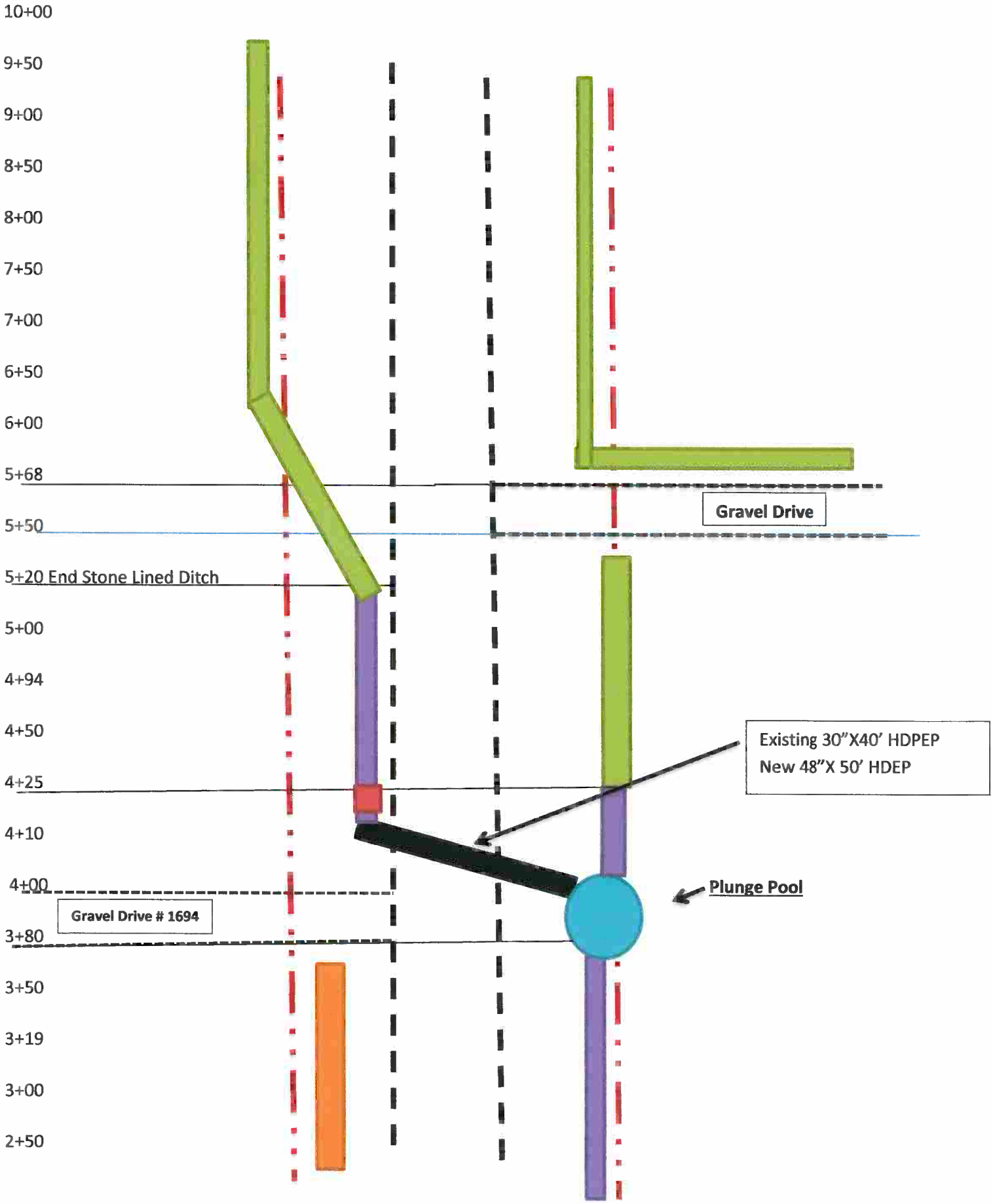
Legend

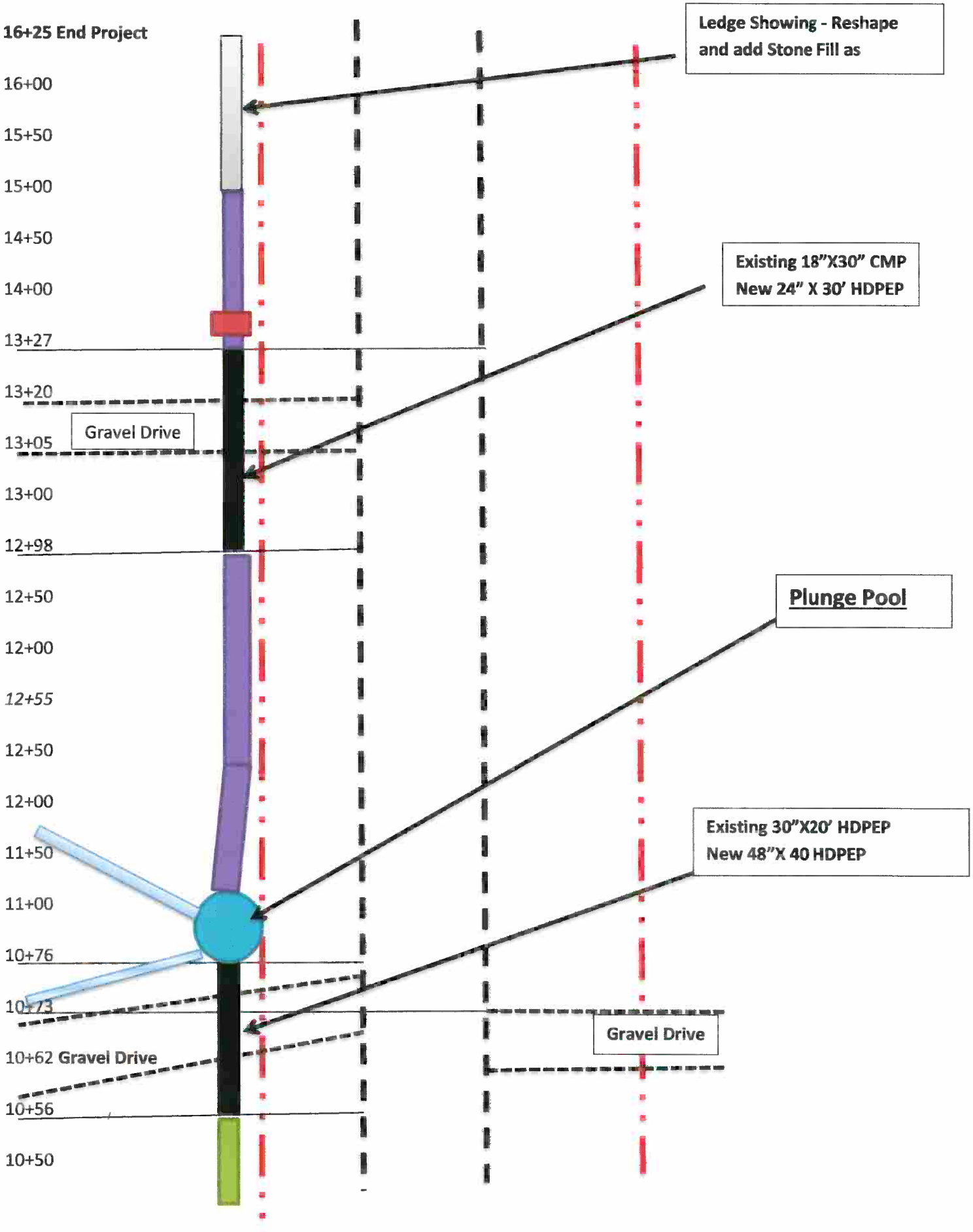
- = Proposed Stone Lined Ditch
- = Grass Lined Ditch
- = Existing Grass Lined Ditch
- = Culvert
- = Existing Streams
- = Proposed Plunge Pool
- = Proposed Stone Check Dam
- = Ledge Showing

TOWN OF FAIRFIELD

Proposed Better Roads Project

Barry Road – TH 26 – Class3


10+00
9+50
9+00
8+50
8+00
7+50
7+00
6+50
6+00
5+68
5+50
5+20 End Stone Lined Ditch
5+00
4+94
4+50
4+25
4+10
4+00
3+80
3+50
3+19
3+00
2+50
Gravel Drive
Existing 30"X40' HDPEP
New 48"X 50' HDEP
Plunge Pool
Gravel Drive # 1694


16+25 End Project
16+00
15+50
15+00
14+50
14+00
13+27
13+20
13+05
13+00
12+98
12+50
12+00
12+55
12+50
12+00
11+50
11+00
10+76
10+73
10+62 Gravel Drive
10+56
10+50
Ledge Showing - Reshape and add Stone Fill as
Existing 18"X30" CMP
New 24" X 30' HDPEP
Gravel Drive
Plunge Pool
Existing 30"X20' HDPEP
New 48"X 40 HDPEP
Gravel Drive

COST ESTIMATE WORKSHEET							
TOWN & ROAD NAME: Fairfield - Barry Rd. TH 26 - Class 3			PROJECT NAME:	Barry Rd. - Better Roads Project - 2016			
LABOR	**RATE**		**Unit**	**# Units**	**TOTAL (Rate X Hours)**		
Foreman	$35.00	w/FB	Hrs.	48	$1,680.00		
Equipment Operator	$30.00	w/FB	Hrs.	48	$1,440.00		
Maintenance Worker	$25.00	w/FB	Hrs.	96	$2,400.00		
						TOTAL LABOR	**$5,520.00**
EQUIPMENT	**RATE**		**Unit**	**# Units**	**TOTAL (Rate X Hours)**		
Rented Excavator/w Operator	$130.00		Hrs.	48	$6,240.00		
Single Axle Truck	$112.13	VTrans	Hrs.	24	$2,691.12		
Tandem Truck	$128.55	VTrans	Hrs.	112	$14,397.60		
Wheeled Loader	$52.72	VTrans	Hrs.	20	$1,054.40		
Wheeled Backhoe	$35.32	VTrans	Hrs.	20	$706.40		
Grader	$82.04	VTrans	Hrs.	4	$328.16		
						TOTAL EQUIPMENT	**$25,417.68**
MATERIALS	**RATE**		**Unit**	**# Units**	**TOTAL (Rate X Hours)**		
Type 1 Stone Fill (900X10X1=9100÷27=333X1.25 C.Y.=416 + 50 for Plunge Pools and Check Dams = 466 C.Y.	$16.00	Local	C.Y.	466	$7,456.00		
Geotextile Fabric 510x10÷9=567 + 140 for Plunge Pools =707 S.Y.	$1.50	Local	S.Y.	700	$1,050.00		
Seed	$2.00	Est.	Lb.	100	$200.00		
Mulch	$4.00	Est.	Bale	50	$200.00		
Gravel - For Crown and Edges 1600x20X0.33÷27=391X1.25=489 C.Y.	$12.00	local	C.Y.	490	$5,880.00		
Culverts (4)							
60" X 50' HDPEP	$86.26	EJ Prescott	L.F.	50	$4,313.00	Est - . Waiting for Vtrans Hyd. Study	
48" X 53" HDPEP	$64.05	EJ Prescott	L.F.	53	$3,394.65	Est - . Waiting for Vtrans Hyd. Study	
48"X 33 HDPEP	$64.05	EJ Prescott	L.F.	33	$2,113.65	Est - . Waiting for Vtrans Hyd. Study	
24" X 33' HDPEP	$19.53	EJ Prescott	L.F.	33	$644.49	Est - . Waiting for Vtrans Hyd. Study	
						TOTAL MATERIALS	**$25,251.79**
Traffic Control	$500.00	Est.	L.S.	1	$300.00		
Engineering-Layout - Inspection - etc.	$500.00	Est.	L.S.	1	$500.00		
						TOTAL MISCELLANEOUS	**$800.00**
						GRAND TOTAL	**$56,989.47**
						MATCH	**$16,989.47**

County-Town Code: 0605

FAIRFIELD, FRANKLIN COUNTY - 2015

TOWN HWY. No.	LENGTH IN MILES CLASS 3	CLASS 4	TOWN HWY. No.	LENGTH IN MILES CLASS 3	CLASS 4	TOWN HWY. No.	LENGTH IN MILES "NOT UP TO STANDARD"
5	0.42		47	0.22		13	(0.23)
6		(0.55)	48		(0.80)	51	(0.12)
8	0.93		49	0.30		66	(0.24)
10		(0.20)	50	4.00		73	(0.17)
11	0.15		51	0.05	(0.68)	TOTAL	0.76
12	3.10		52	1.26			
13	0.12		53	1.61			
14	4.08		54		(0.40)		
15	0.95		56	1.00			
16	0.30		57	2.50			
17		(0.75)	58	0.35			
18	1.91		59	2.15			
19		(0.30)	60	0.50			
20		(1.80)	61	0.30			
21	0.46	(0.18)	62	2.62	(0.63)		
22	0.95		63	0.29	(0.51)		
23	2.13		64		(0.50)		
24	0.32		65	2.14			
25	2.01	(0.59)	66	0.51			
26	3.60		67	0.40			
27		(0.35)	68	0.42	(0.20)		
28	0.30		69	2.10			
29	2.25		70	0.70			
30	1.75		71	0.40			
31	2.51		72	0.10	(0.22)		
32	0.48	(0.52)	74	0.13			
33	2.60		75	0.18			
34	3.30		76	0.09			
35	0.89	(0.96)	77	0.34			
36	2.30		78	0.08			
37	0.50		79	0.11			
38	1.53		80	0.12			
39	0.85		81	0.05			
40	1.45		82	0.10			
41	1.47		83	0.15			
42	0.45	(0.96)	84	0.08			
43	1.00	(1.25)	85	0.06			
44	0.60		87	0.03			
45	0.40		88	0.10			
46	0.30	(0.40)	TOTAL	71.90	12.69		

* The sections of the town highways listed above are legally Class 3, but have been deemed "Not Up To Standard" and are functionally Class 4 Town Highways

MILEAGE SUMMARY

CLASS 2		
TH-1	6.720	
TH-2	4.700	
TH-3	1.100	
TH-4	4.330	
TH-5	1.600	
TH-6	1.800	
	TOTAL CLASS 2	21.750
CLASS 3		
	TOTAL CLASS 3	71.90
	TOTAL TOWN	**93.650**
STATE HIGHWAY		
VT-36	9.989	
VT-104	0.111	
	TOTAL STATE HIGHWAY	10.100
	TOTAL STATE	**10.100**
INTERSTATE		
I-89	0.207	
	TOTAL INTERSTATE	0.207
	TOTAL INTERSTATE	**0.207**

TOTAL, TRAVELED HIGHWAYS, FEB. 10, 2015: 103.957
(Excludes Class 4, Legal Trail, and Unidentified Corridor Mileage)

Proj Location

SHELDON
SWANTON
ENOSBURG
BAKERSFIELD
ST. ALBANS
FAIRFAX
FLETCHER
Saint Rocks
Fairfield Station
FAIRFIELD SWAMP WILDLIFE MANAGEMENT AREA
FAIRFIELD TOWN FOREST
FAIRFIELD INSET 1
EAST FAIRFIELD INSET 2
ELM BROOK WILDLIFE MANAGEMENT AREA
ST. ALBANS CITY WATERSHED

EAST FAIRFIELD INSET 2 SCALE 1:8,336
FAIRFIELD INSET 1 SCALE 1:8,336
0 0.08 0.16 Miles

HIGHWAYS
INTERSTATE
U.S. ROUTE
STATE ROUTE
CLASS 1
CLASS 2
CLASS 3
CLASS 4
LEGAL TRAIL
INTERSTATE OR DIVIDED HIGHWAY
STATE - HARD SURFACE OR PAVED
TOWN - HARD SURFACE OR PAVED
GRAVEL
DIRT OR GRADED AND DRAINED EARTH
UNIMPROVED OR PRIMITIVE
IMPASSABLE OR UNTRAVELED
LEGAL TRAIL
DISCONTINUED
HIGHWAY CLASS CHANGE
RAILROAD
INACTIVE RAILROAD
NFR NATIONAL FOREST ROAD
SFH STATE FOREST HIGHWAY
P PARK AND RIDE
PUBLIC LAND - GREEN MOUNTAIN NATIONAL FOREST
PUBLIC LAND - STATE/MUNICIPAL
POLITICAL SUBDIVISIONS
STATE BOUNDARY
COUNTY BOUNDARY
TOWN BOUNDARY
VILLAGE BOUNDARY
URBAN COMPACT BOUNDARY
WATER BODY
STREAM OR BROOK
BRIDGE OR CULVERT
BRIDGE OR CULVERT > 20'
BRIDGE OR CULVERT 8' - 20'
VOBCIT BRIDGE
VOBCIT CULVERT > 6'
B34 / C34 STATE BRIDGE OR CULVERT IDENTIFIER
B54 / C54 TOWN BRIDGE OR CULVERT IDENTIFIER

FEDERAL CLASSIFICATION IDENTIFIER
FAU URBAN ARTERIAL OR COLLECTOR
MIA MINOR ARTERIAL
MAC MAJOR COLLECTOR
MNC MINOR COLLECTOR
PA PRINCIPAL ARTERIAL

DISCLAIMER:
The untraveled highways (laid-out town highways), discontinued highways, and legal trails (areas of which the Agency of Transportation has record; others may exist.

Highway and bridge data by the Agency of Transportation. Town short structures are drawn from the Vermont Online Bridge & Culvert Inventory Tool (VOBCIT) database. All other data from the Vermont Center for Geographic Information. Only named streams are shown.

Vermont State Plane Coordinate System
North American Datum of 1983
SPCS_Zone_Identifier: 4400
Geodetic Reference System 80
4,000-meter grid, Easting - Northing

VERMONT
GENERAL HIGHWAY MAP
Town of Fairfield
FRANKLIN COUNTY
Transportation District #8

Prepared by the
Vermont Agency of Transportation
Division of Policy, Planning and Intermodal Development
In cooperation with
U.S. Department of Transportation
Federal Highway Administration

Mileage as of February 10, 2015
Map prepared June 04, 2015

SCALE 1:31,680

0.5 0 0.5 1 1.5 2
Miles
0.5 0 0.5 1 1.5 2
Kilometers

For more information contact: Vermont Agency of Transportation, Division of Policy, Planning & Intermodal Development - Mapping Section, 1 National Life Drive, Montpelier, VT 05633-5001 Telephone: 802-828-2600.

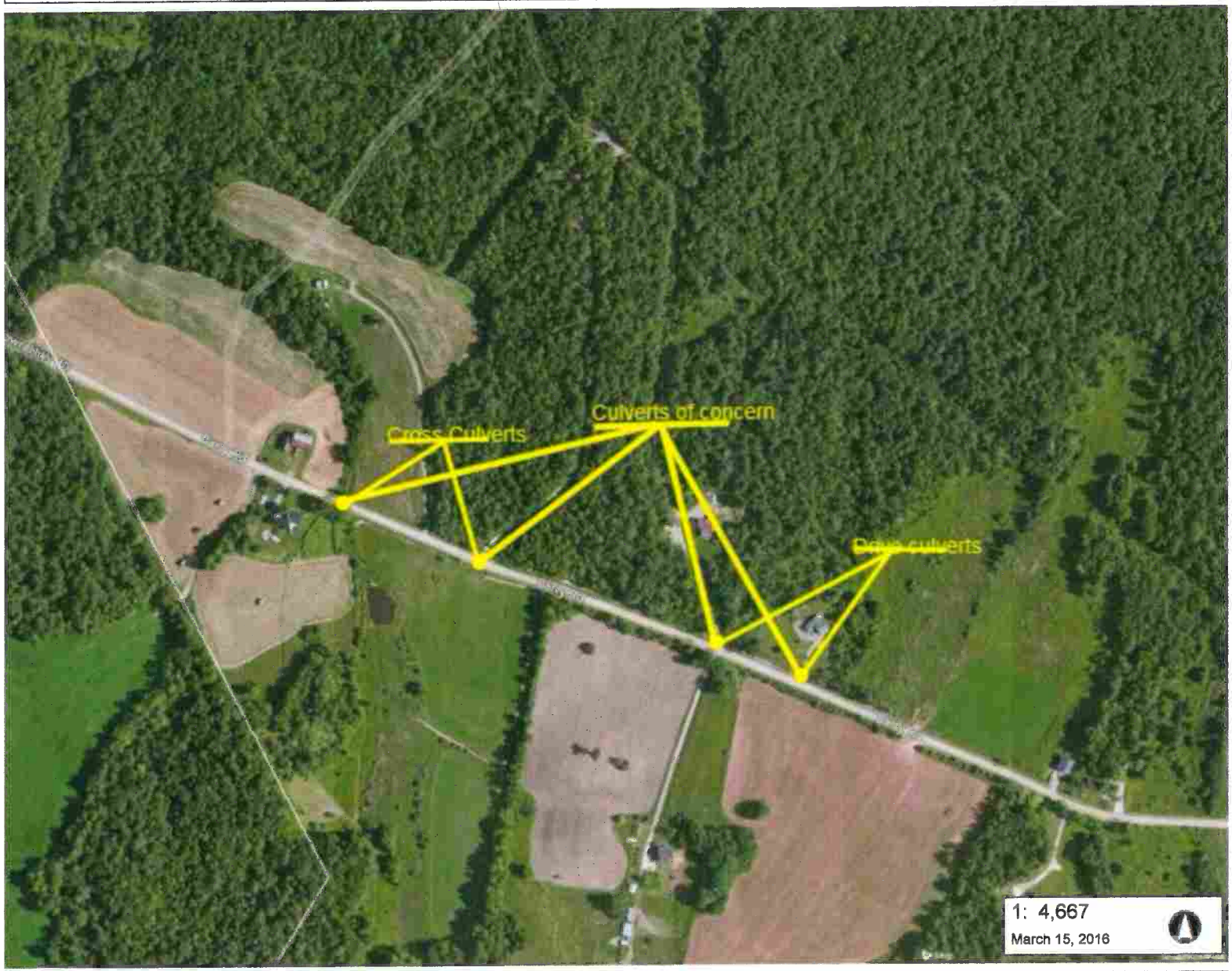
This map was funded in part through grants from the Federal Highway Administration, U.S. Department of Transportation. The representation of the authors expressed herein do not necessarily state or reflect those of the U. S. Department of Transportation.

VERMONT

Natural Resources Atlas

Vermont Agency of Natural Resources

vermont.gov



LEGEND

Town Boundary

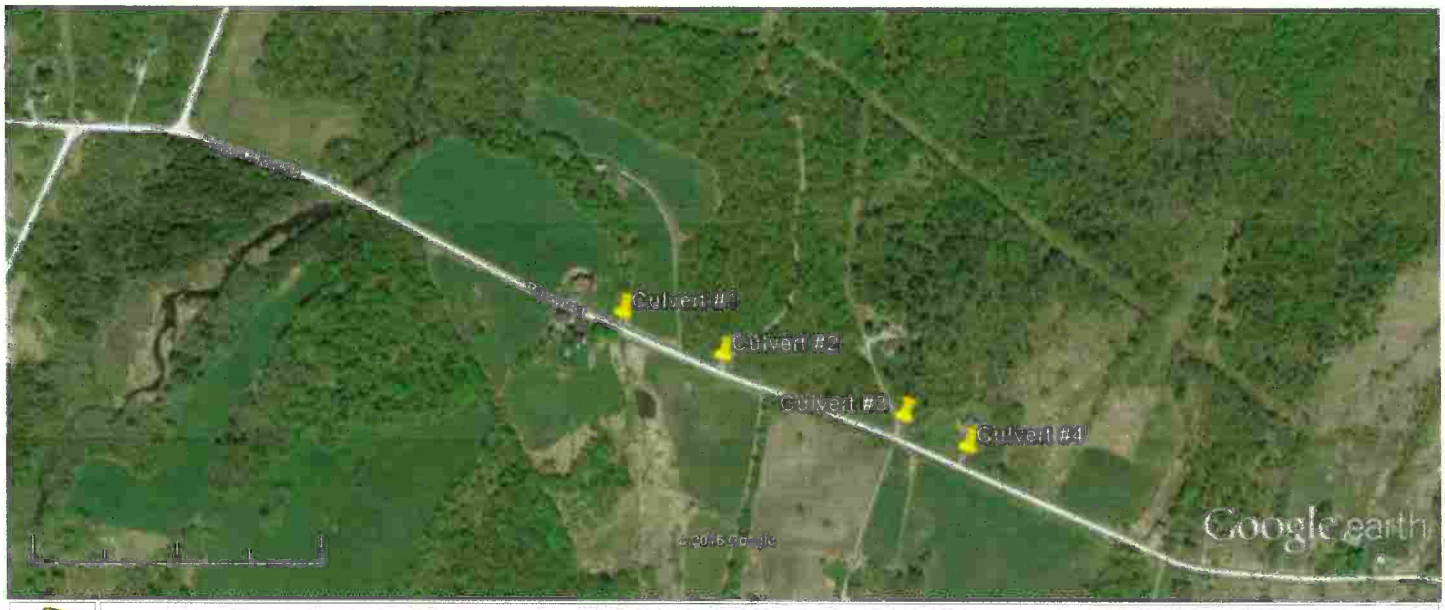
NOTES

Map created using ANR's Natural Resources Atlas

237.0 0 118.00 237.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 389 Ft. 1cm = 47 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION



Culvert

FAIRFIELD - BARRY ROAD
4-09-2016

Culvert 6N let @ 0+15

0+15 — 4+0 +/-

4+0 — 7+50 +/-

Culvert outlet @ 0+00

4-09-2016

7+0 —— 10+50 +/-

Culvert inlet @ 4+25 LT

Culvert outlet @ 12+98 LT.

Culvert outlet @ 10+56 LT

4/09/2016

Drive Culvert Inlet @ 10+76 Lt.

Drive Culvert inlet @ 10+76 Lt.

11

10+90 — B+0 Lt.

3/18/2016

Cross Culvert Inlet @ 4+25 Lt

Drive Inlet culvert end 10+26 Lt

Cross Culvert outlet @ 4+10 Lt.

3/18/2016

Drive Culvert Outlet

Drive Culvert Outlet @ 12498 CT