



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
- D. Structure/culvert upgrades

Town/Organization: Town of Barnet

Project Name: Harvey Mountain Road Culverts Project

Road Name: Harvey Mountain Road TH #: 10 Structure # (if applicable): _____

Road Type: Paved Uncurbed

Class 2

Watershed: Harvey's Lake/Stevens River

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

Roadway is situated across the hillside of Harvey Mountain along the shoreline of Harvey's Lake. Inadequate, rotten, and ineffective culverts allow roadway material to enter Harvey's Lake.

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):

Replace and upgrade ten (10) culverts in poor condition with new plastic or galvanized culvert. Replace gravel material. Install erosion control seed and mulch.

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

This project will prevent roadway material from being washed into Harvey's Lake.



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 250'+

Progress to Date:

None.

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: _____

No

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTTrans District Technical staff, Basin Planner etc.):
Patrick Ross of Vermont Agency of Natural Resources

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

Yes.

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).

Yes.



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

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

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): \$ 56,627.14

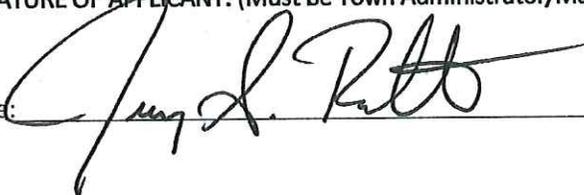
Estimated Completion Date: 10/15/2016

REQUIRED ATTACHMENTS:

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

Title: Selectboard Chair



Cost Estimate Worksheet

Town and Road Name: Town of Barnet, Harvey Mountain Road

Project Name: Harvey Mountain Road Culverts

Labor	Rate	# Hours	Total (Rate x Hours)
Mark Chase, Road Foreman	28.00	80	2,240.00
Glenn Fearon	28.00	80	2,240.00
Jason LeClair	28.00	80	2,240.00
Barry Snow II	28.00	80	2,240.00
Dennis Tillotson	28.00	80	2,240.00
Labor Total			11,200.00

Equipment	Rate	# Hours	Total (Rate x Hours)
Backhoe	127.51	80	10,200.80
Dump Trucks (2 axle)	78.73	160	12,596.80
Dump Trucks (single axle)	73.90	80	5,912.00
Grader	216.89	6	1,301.34
Mulcher	25.00	8	200.00
Compactor	25.00	16	400.00
Equipment Total			30,610.94

Materials	Rate	Amount	Total (Rate x Amount)
1" Crushed Gravel	11.50	300 yards	3,450.00
7" Erosion Stone	11.50	112 yards	1,288.00
15" Grey Plastic Culvert	8.63	140 feet	1,208.20
18" Galvanized Steel Culvert	15.48	250 feet	3,870.00
Materials Total			9,816.20

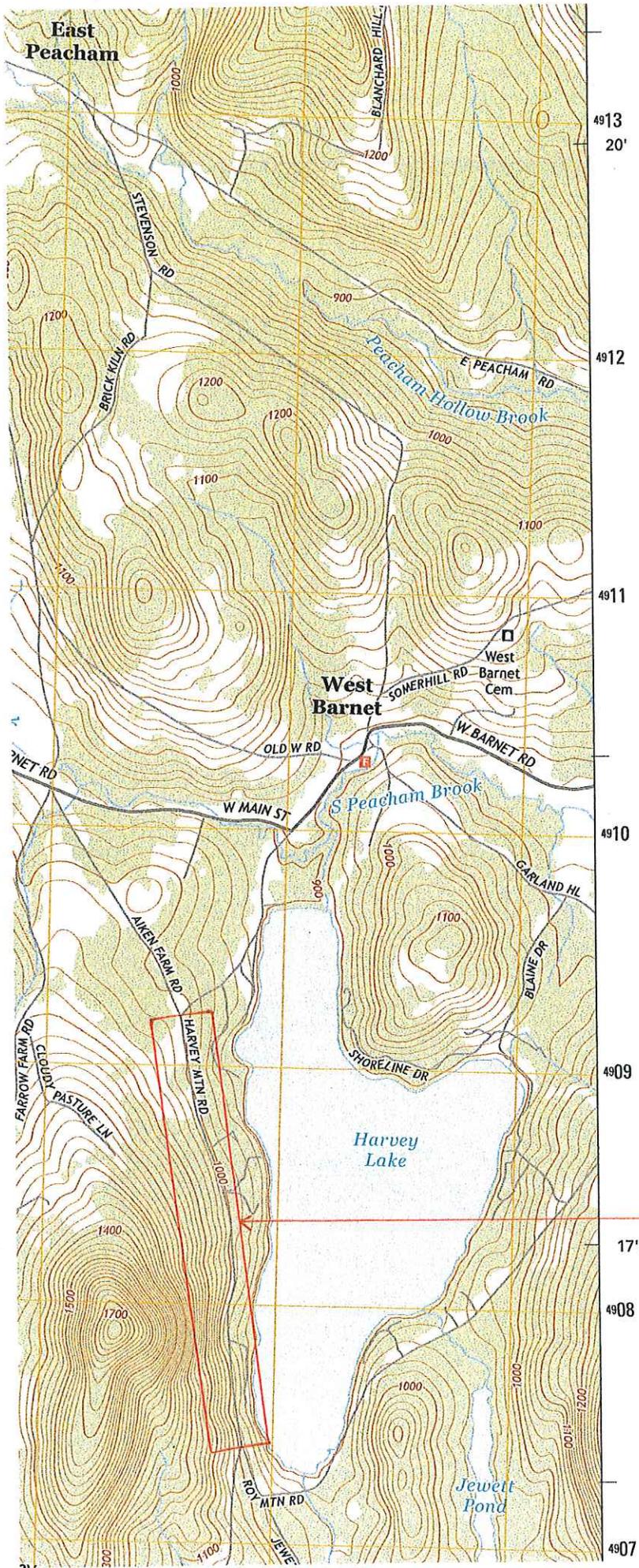
Miscellaneous	Rate	Amount	Total (Rate x Hours)
Traffic Control, etc.			1,000.00
Erosion Control, Seed, Mulch Hay			4,000.00
Miscellaneous Total			5,000.00

Grand Total 56,627.14
Match 16,627.14

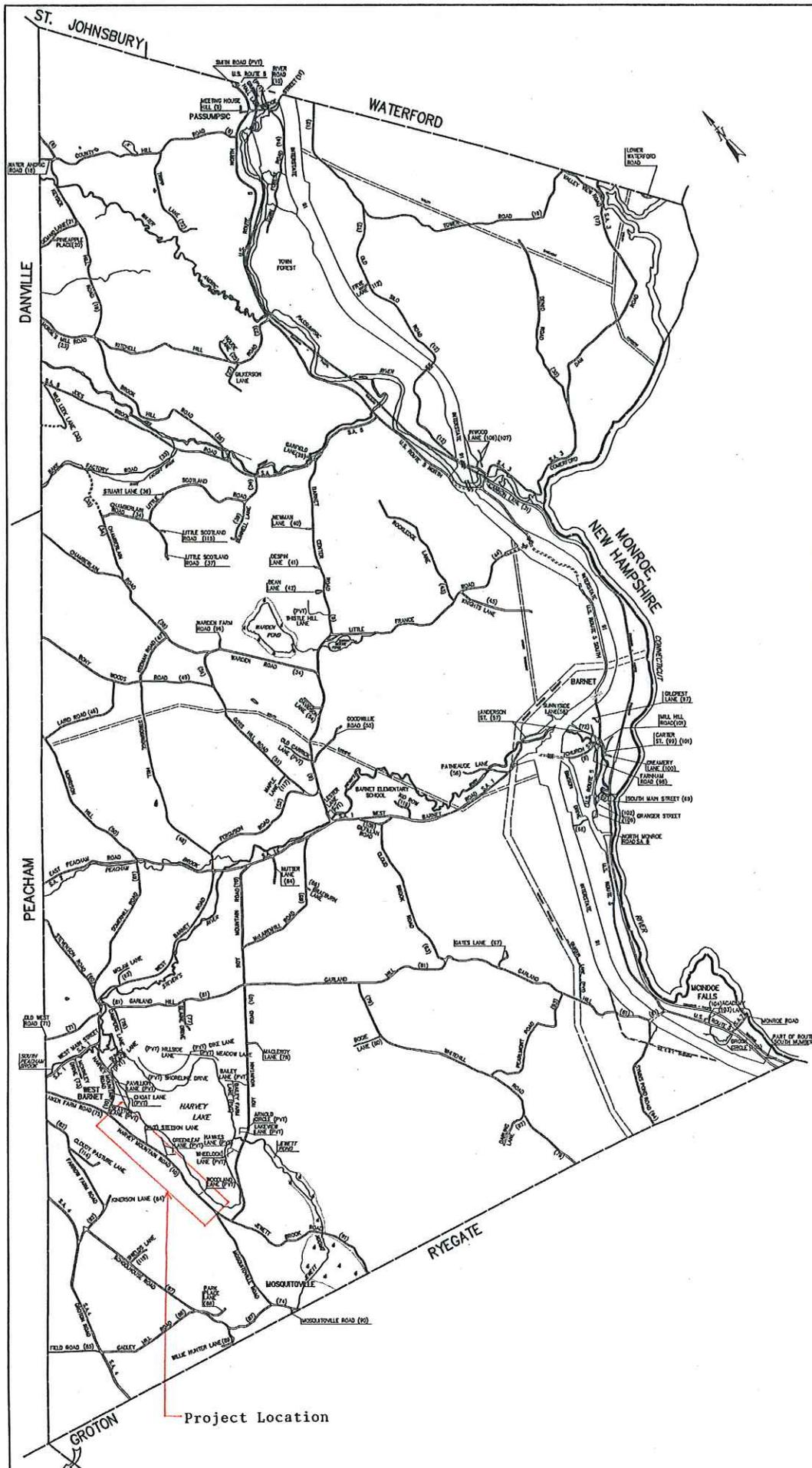
Harvey Mountain Road Culverts Project

Culvert Replacement Reference

Culvert Number - per attached culvert maps	Culvert Map Page Number	Existing Culvert	Proposed Replacement Culvert
380	20	15 inch x 40 feet	18 inch x 50 feet
381	20	12 inch x 25 feet	15 inch x 30 feet
384	20	12 inch x 25 feet	15 inch x 30 feet
386	20	Unknown	18 inch x 50 feet
389	20	12 inch x 30 feet	15 inch x 30 feet
390	20	16 inch x 40 feet	18 inch x 50 feet
391	20	16 inch x 40 feet	18 inch x 50 feet
396	22	16 inch x 40 feet	18 inch x 50 feet
398	22	12 inch x 15 feet	15 inch x 20 feet
399	22	15 inch x 25 feet	15 inch x 30 feet



Project Location



THIS MAP IS BASED ON THE TOWN OF BARNET PROPERTY MAPS. IT IS INTENDED FOR REFERENCE AND PLANNING PURPOSES ONLY.



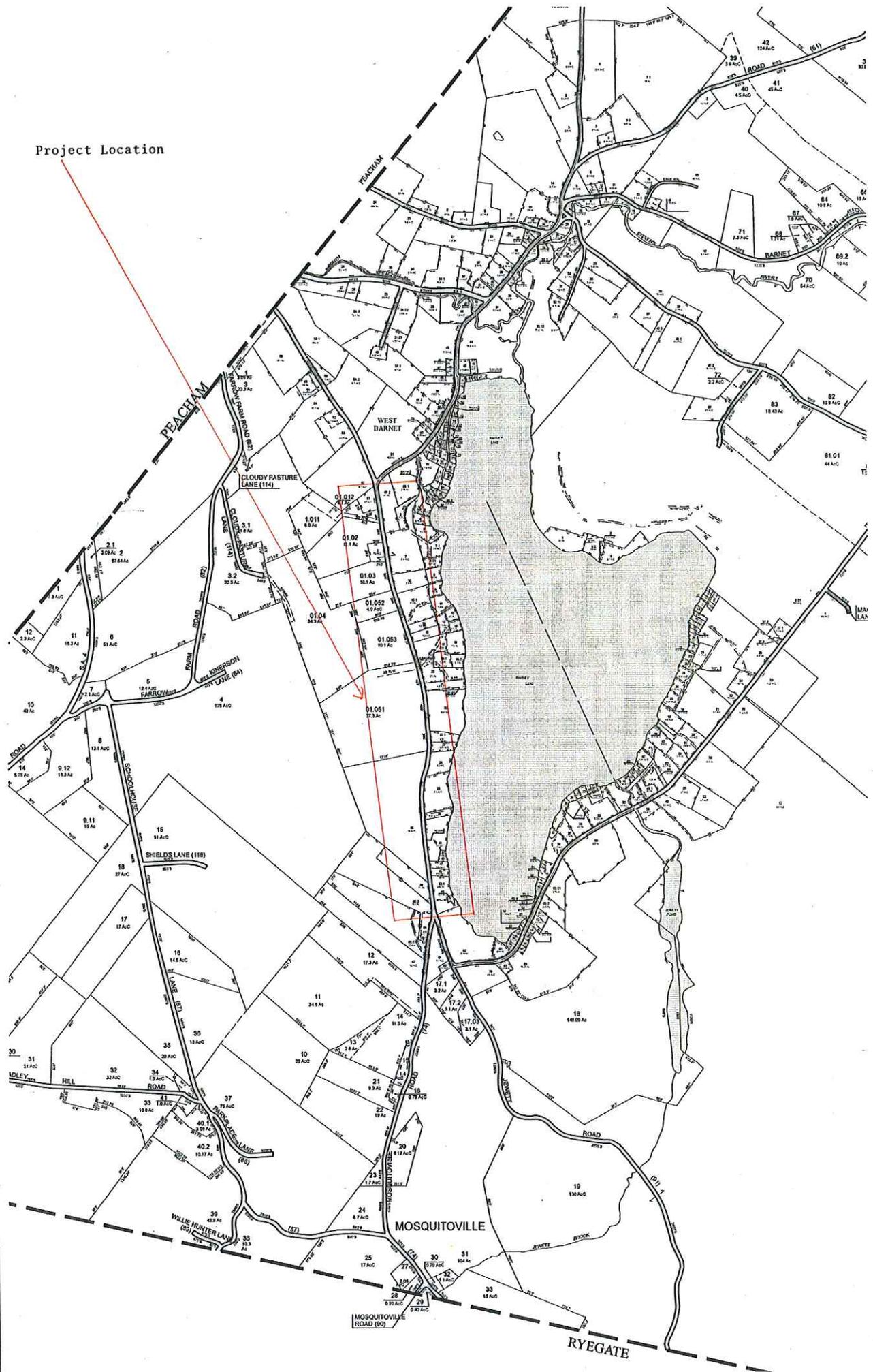
LEGEND	
	TOWN LINE
	WELLS
	UTILITY
	WATER BODY

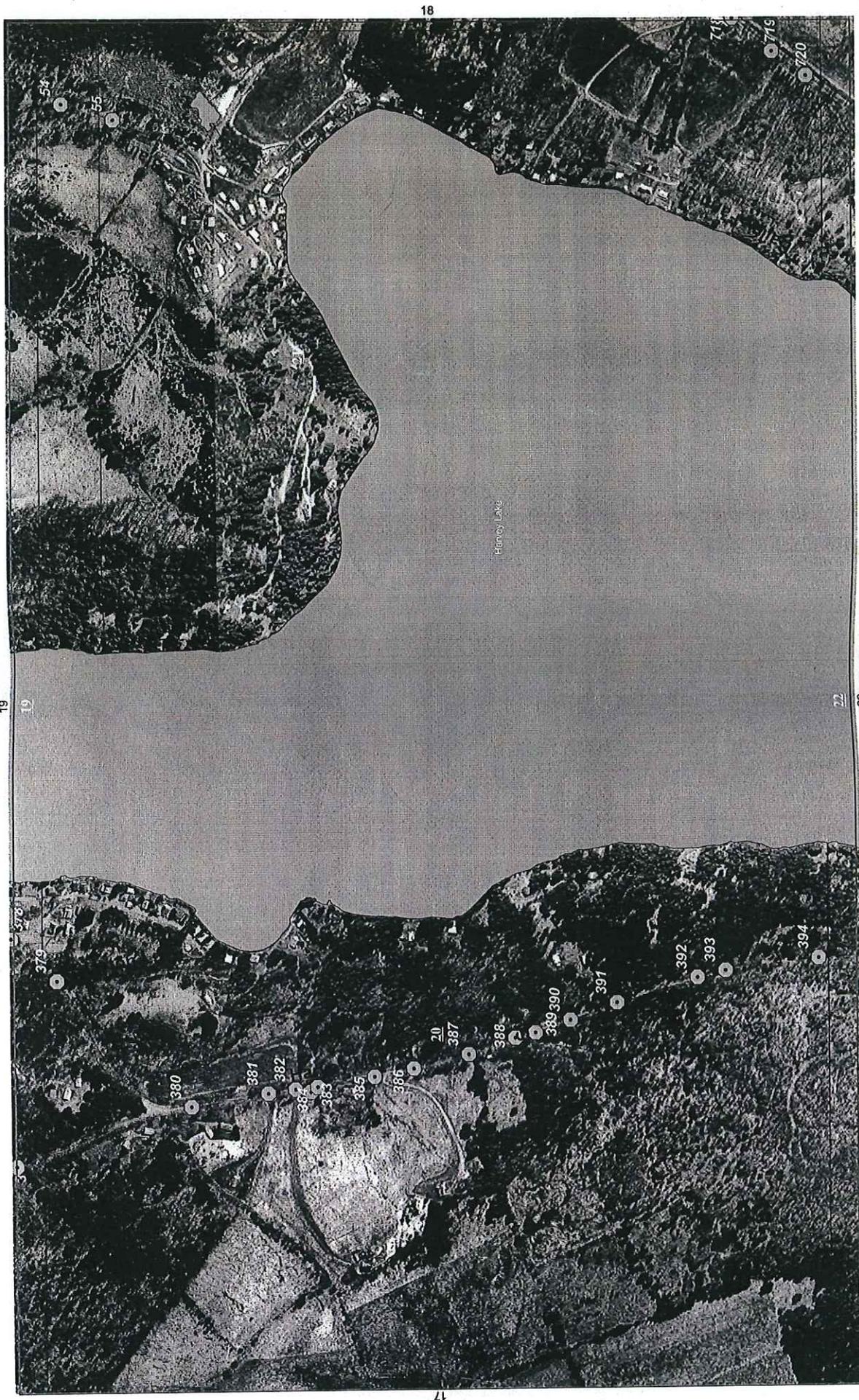
FEET	SCALE 1" = 2000'
METERS	SCALE 1" = 600M
REVISED AND REPRINTED TO APRIL 1, 2014	

TOWN OF
BARNET
VERMONT

STREET MAP

Project Location



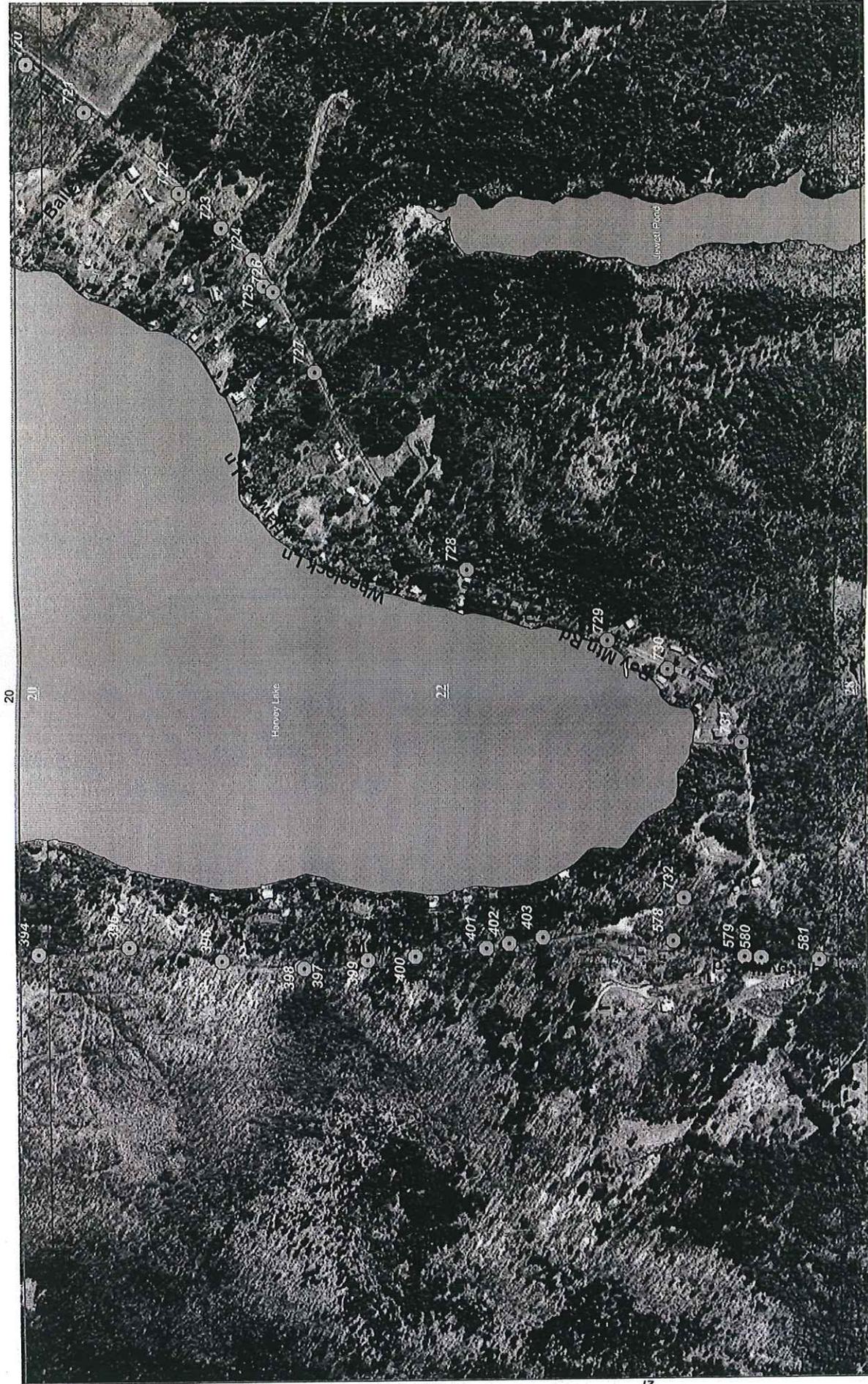


BARNET
 Bridge and Culvert Road Reference

Scale: 5000



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BARNET

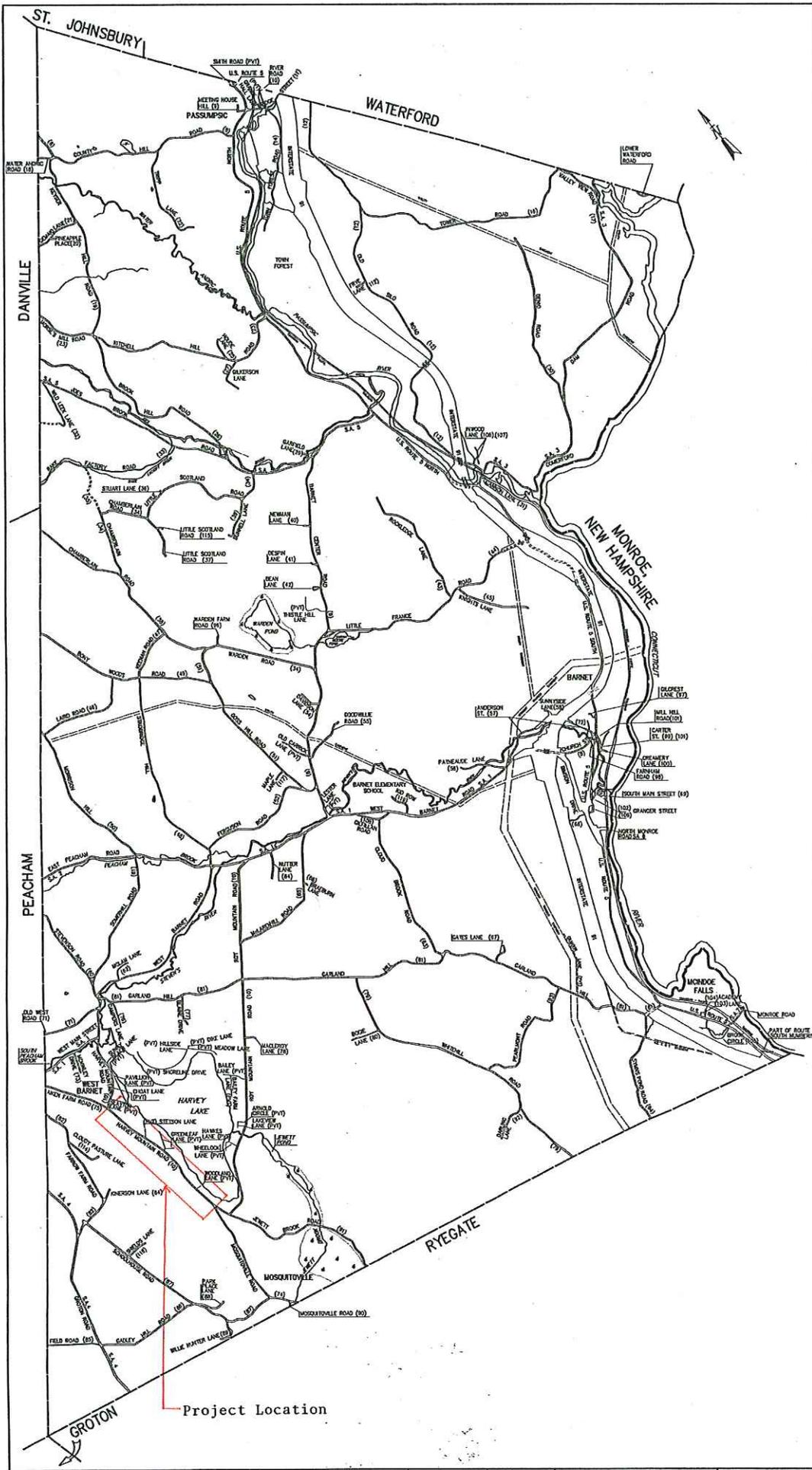
Bridge and Culvert Road Reference

Scale: 5000



North Arrow (2007)
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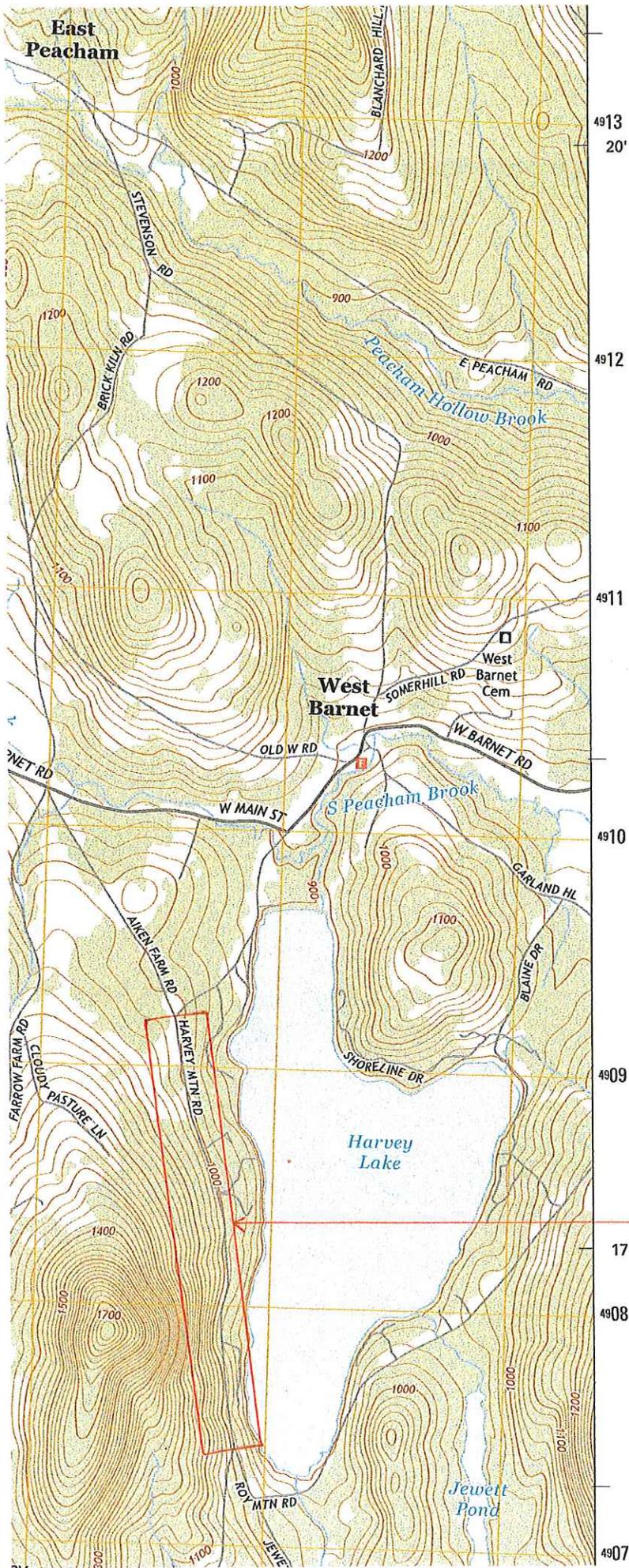


LEGEND
 TOWN LINE
 UTILITY
 BELANDS
 WATER BODY

SCALE: 1" = 300'
 APRIL 1, 2014

TOWN OF BARNET VERMONT

STREET MAP



Project Location

4913
20'
4912
4911
4910
4909
17'30"
4908
4907

Project Location

