



**Vermont Department of Environmental Conservation**  
 Watershed Management Division  
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*Agency of Natural Resources*

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**AUTHORIZATION TO CONDUCT STREAM ALTERATION ACTIVITIES**

Pursuant to Section C.2.2 of the VT Stream Alteration General Permit (Reporting activities not requiring an application)

Project Number: SA-3-109-2016

Applicant Name: TOWN OF NEWBURY - C/O BOB BEAULIEU

Mailing Address: PO BOX 126, NEWBURY VT Phone: 429-2401

Project Location TH#1 SNAKE RD BR#9 Email: NEWBURY HWY @ FAIR POINT, NET

The Secretary of the Vermont Agency of Natural Resources (VT ANR) has determined that:

1. This project authorizes the replacement of a structurally deficient structure with a new bankfull buried box.
2. The proposed activity is eligible for coverage under the VT ANR Stream Alteration General Permit.
3. The proposed activity will meet the terms and conditions of the General Permit provided:
  - a) The project will be completed and approved as shown on the plan dated May 2016, prepared by VTrans DF, and approved by the Vermont Agency of Natural Resources.
  - b) The project will not adversely affect the public safety by increasing flood hazards.
  - c) The project will not significantly damage fish life or wildlife.
  - d) The project will not significantly damage the rights of riparian owners.
  - e) The project will not obstruct the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction.
  - f) The project is conducted in a manner which minimizes or avoids any discharge of sediment or other pollutants to surface waters in violation of the VT Water Quality Standards.
  - g) The ANR River Management Engineer is notified by phone or email when construction begins and when the project is complete.
  - h) A final construction inspection is required for all culvert and bridge projects.
  - i) In-stream working dates are from June 1<sup>st</sup> through October 1<sup>st</sup>; any in-stream work outside these dates will require authorization by the River Management Engineer.
  - j) This authorization has been posted for three days public comment. This authorization constitutes final approval.
  - k) Additional Conditions for this project: \_\_\_\_\_

If there are any changes in the project plan or deviation in construction from the plan, the Permittee must notify the River Management Engineer immediately.

If the project is constructed as you have described, as shown on the above referenced approved plans and according to the above conditions, there is no reason to expect any violation of Vermont Water Quality Standards.

Alyssa B. Schuren, ANR DEC Commissioner

*Patrick Ross*

Dated: 5/16/16

Patrick Ross, P.E., River Management Engineer

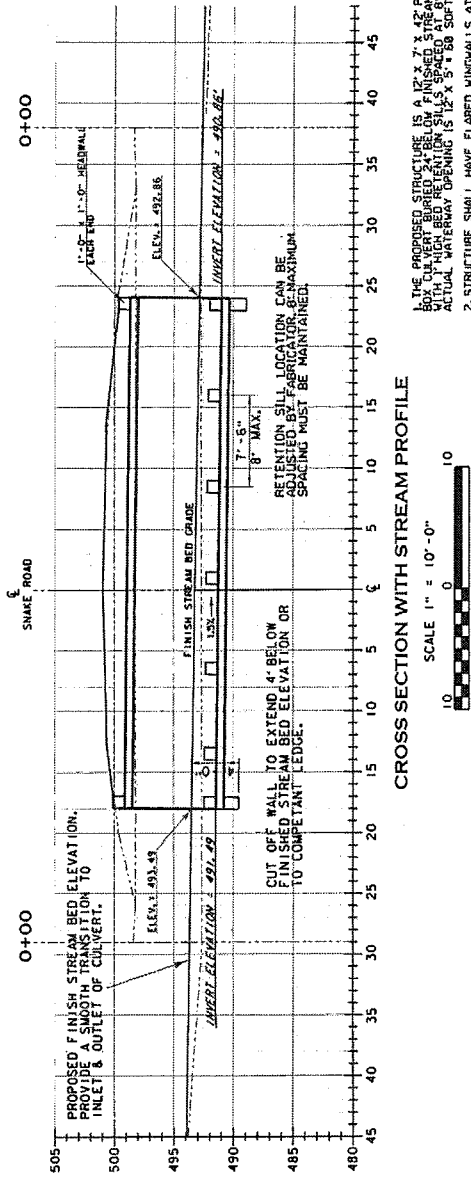
**GENERAL NOTES**

1. INFORMATION FOR THIS PLAN WAS DEVELOPED FROM A ROD LEVEL SURVEY BASED ON A BENCHMARK ELEVATION OF 500.00'. NO TOPOGRAPHIC SURVEY WAS CONDUCTED AT THIS SITE.
2. THIS PROJECT SHOULD BE CONDUCTED IN A MANNER WHICH MINIMIZES OR AVOIDS ANY DISCHARGE OF SEDIMENT OR OTHER POLLUTANTS TO SURFACE WATERS.
3. A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CONTRACTOR, VITRANS DISTRICT STAFF AND THE AAR RIVER MANAGEMENT ENGINEER.
4. THE RIVER MANAGEMENT ENGINEER SHALL BE NOTIFIED WHEN CONSTRUCTION BEGINS AND WHEN THE PROJECT IS COMPLETE.
5. IN STREAM WORKING DATES FOR ALL GENERAL PERMIT ACTIVITIES SHALL BE DONE BETWEEN JULY 1ST AND OCTOBER 31ST. ANY STREAM ALTERATIONS PERMIT AUTHORIZED BY THE RIVER MANAGEMENT ENGINEER PATRICK ROSS.
6. CONTRACTOR SHALL SUBMIT PRECAST BOX SHOP DRAWINGS TO THE TOWN AND DISTRICT STAFF FOR REVIEW AND APPROVAL.

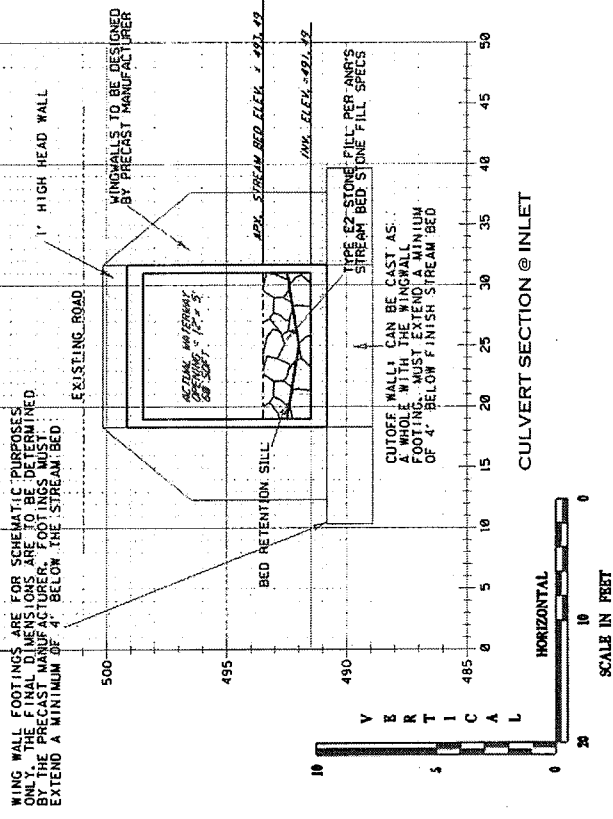
**CONSTRUCTION NOTES**

1. THE PROPOSED STRUCTURE IS A 12' X 7' X 42' PRECAST CONCRETE BOX CULVERT BUILT 2" BELOW FINISHED STREAM BED ELEVATION WITH 1" HIGH HEAD WALLS. THE ACTUAL WATERWAY OPENING SHALL BE 11' X 5' 0" O.C. WALL TO WALL.
2. STREET TO SMOOTHLY TRANSITION FLOW THROUGH CULVERT AND OUTLET TO MATCH WITH THE EXISTING STREAM BANK. WINGWALLS MUST MATCH WITH THE EXISTING STREAM BANK. THE FIELD FOOTING SIZE TO BE DETERMINED BY FABRICATOR.
3. STRUCTURE TO HAVE CUT OFF WALLS AT THE INLET AND OUTLET AND MUST EXTEND A MINIMUM OF 4' BELOW STREAM BED ELEVATION.
4. STONE FILL TYPE II SHALL BE USED TO STABILIZE ANY DISBURBED STREAM BANKS AT THE INLET AND TYPE III AT THE OUTLET OF THE STRUCTURE.
5. ALL BACK FILL SHALL BE WELL GRADED MATERIAL FREE OF ORGANIC AND PLACED AT 6" CLIPS COMPACTED TO 95% MAXIMUM DRY DENSITY.
6. LOCATION TO BE VERIFIED BY FABRICATOR.
7. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT HIGHWAY AND BRIDGE CONSTRUCTION SPECIFICATIONS.
8. THE BOX CULVERT INCLUDING THE SILLS SHALL BE PRECAST THE WINGWALLS MAY BE EITHER PRECAST OR CAST IN PLACE. THE DESIGN OF THE STRUCTURE SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. THE STRUCTURE SHALL BE DESIGNED TO APPLICABLE STANDARDS.
9. THE CONCRETE SHALL BE SUBMITTED FOR TESTING FOR THE PROPOSED VITRANS DISTRICT ENGINEER IN ACCORDANCE WITH SUBSECTION 102.03 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
10. THE BOX CULVERT TYPICAL SECTIONS SHOWN IN THE DRAWINGS ARE FOR HARDWARE ALL HARDWARE COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH SUBSECTION 102.03 OF THE STANDARD SPECIFICATIONS.
11. ALL BOX CULVERT JOINTS SHALL BE STRENGTHENED WITH PRECAST OR CAST CONCRETE WITH SUBSECTION 102.03 OF THE STANDARD SPECIFICATIONS.
12. AFTER BOX CULVERT SECTIONS HAVE BEEN SET IN THEIR FINAL POSITION, THE BOX CULVERT JOINTS AND JOINTS AND BOTTOM OF THE WINGWALLS SHALL BE WET CURED A MINIMUM OF 12 HOURS. THE APPLICATION OF ANY WATERPROOFING APPROVED BY THE CONTRACTOR SHALL BE USED ON INTERIOR SURFACES IN LIEU OF WET CURING. APPROVED BY FABRICATOR.


EXISTING STRUCTURE 5.4 X 7.7 X 67' CORRUGATED METAL PIPE ARCH  
 PROPOSED STRUCTURE 12' W. X 7' H. X 42' PRECAST BOX CULVERT  
 WITH 1" HIGH HEAD WALLS. STRUCTURE TO BE BURIED  
 2' BELOW FINISH STREAM BED ELEVATION.



CROSS SECTION WITH STREAM PROFILE  
 SCALE 1" = 10'-0"



CULVERT SECTION @ INLET  
 SCALE IN FEET

<p>PROJECT: NEWBURY, VT                  SNAKE ROAD, TH#1 BR#9                  REPLACEMENT OF CULVERT AND CHANNEL WORK.</p>	<p>PLANS PREPARED BY:  DISTRICT #7</p>
<p>PROJECT MANAGER: S. CLIFFORD                  DESIGNED BY: K. DRISCOLL                  DRAWN BY: K. DRISCOLL                  CHECKED BY: S. CLIFFORD                  PLOT DATE: 3/3/16                  SHEET 2 OF 6</p>	<p>DISTRICT #7</p>