



Vermont Department of Environmental Conservation
 Watershed Management Division
 St. Johnsbury Regional Office
 1229 Portland Street, Suite 201
 St. Johnsbury, VT 05819
 www.watershedmanagement.vt.gov

Agency of Natural Resources

[fax] 802-748-6687
 [cell] 802-279-1143

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-3-105 -2016

Applicant Name: Town of Williamstown

Mailing Address: P.O. Box 646, Williamstown VT. 05677 Phone: _____

Project Location Williamstown Wastewater Treatment Site Email: williamstownvt.org

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

1. This project authorizes the relocation of a municipal ww treated effluent out fall.
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 April 2016, prepared by A + B ENGINEERING, 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 1st through October 1st; any in-stream work outside these dates will require an Individual Stream Alteration Permit 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: see notes on plans & F&W Email.

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

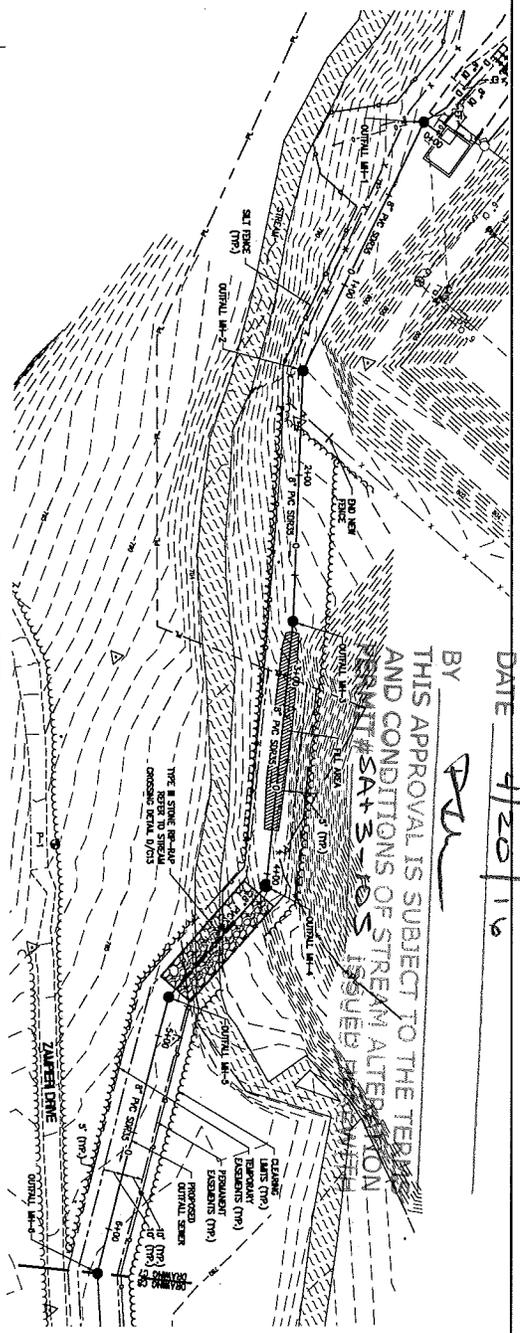


 Patrick Ross, P.E., River Management Engineer

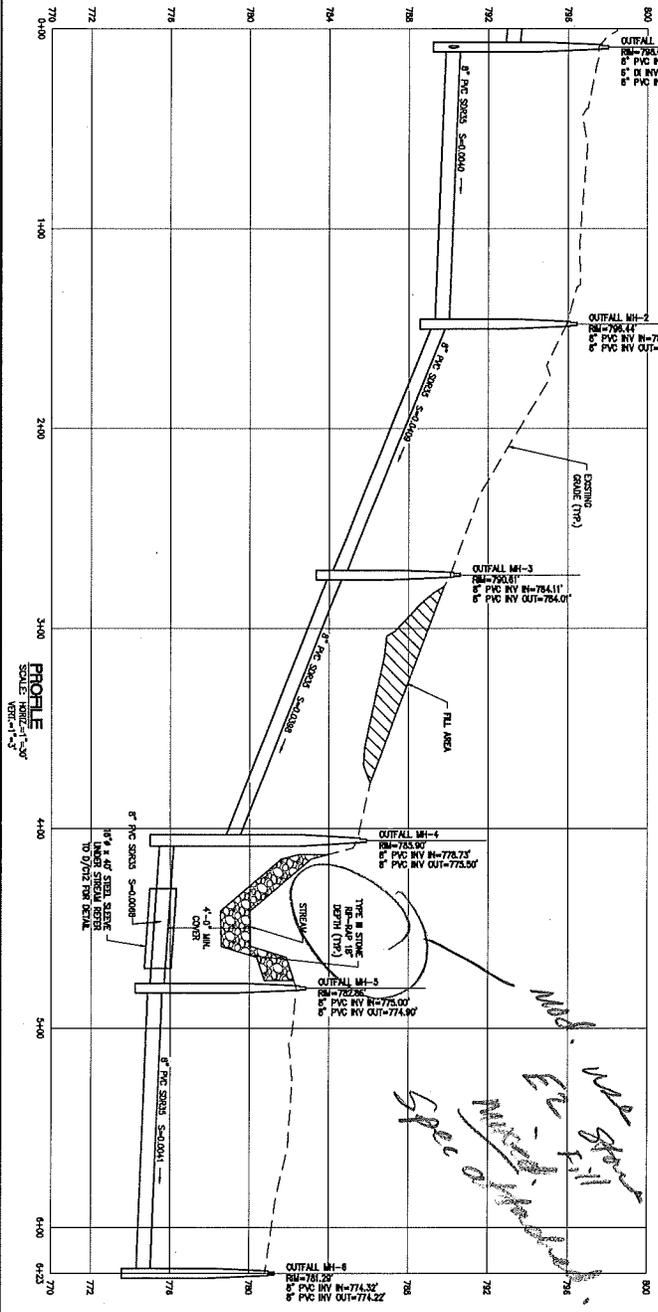
Dated: 4/20/14

APPROVAL
 WATERSHED MANAGEMENT DIVISION
 DATE 4/20/16
 June 1 - Oct 1

THIS APPROVAL IS SUBJECT TO THE TERMS
 AND CONDITIONS OF STREAM ALTERATION
 PERMIT # SAT-3-16-05 ISSUED BY WMD



PLAN
 SCALE 1"=30'
 GRAPHIC SCALE
 (1"=30')



PROFILE
 SCALE 1"=3'
 (VERTICAL)

Handwritten notes:
 Note: Elevation of structure is 774.00'
 Spec. 1000-1000-1000

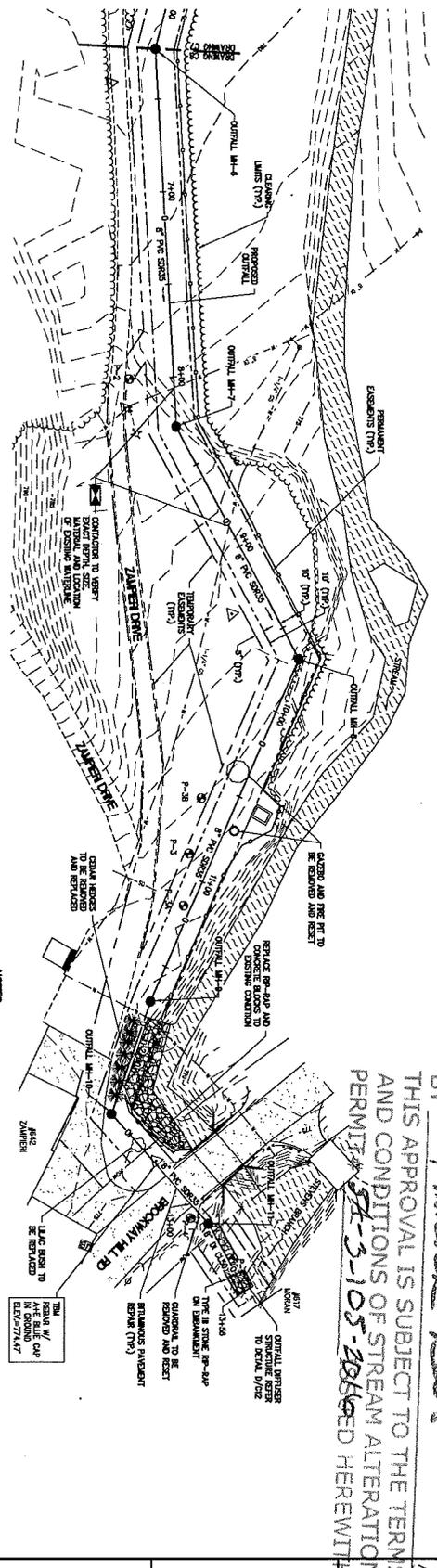
		Aldrich + Elliott 6 Maple Road, Suite 2 Essex Jct., VT 05452 P: 802.879.7733 A: 802.879.7733 A@aldrich.com	
TOWN OF WILLIAMSTOWN, VERMONT WASTEWATER TREATMENT FACILITY RETURBISHMENT CONTRACT No. 1			
PROPOSED OUTFALL PLAN AND STATIONING 0+00 TO 6+23			
PROJECT NO.	15072	DATE	APRIL 2016
DESIGNED BY	J.E.	DRAWN BY	J.E.
CHECKED BY	J.A.	DATE	APRIL 2016

APPROVAL
WATERSHED MANAGEMENT DIVISION

DATE 4/20/16

BY *Steve Ross*

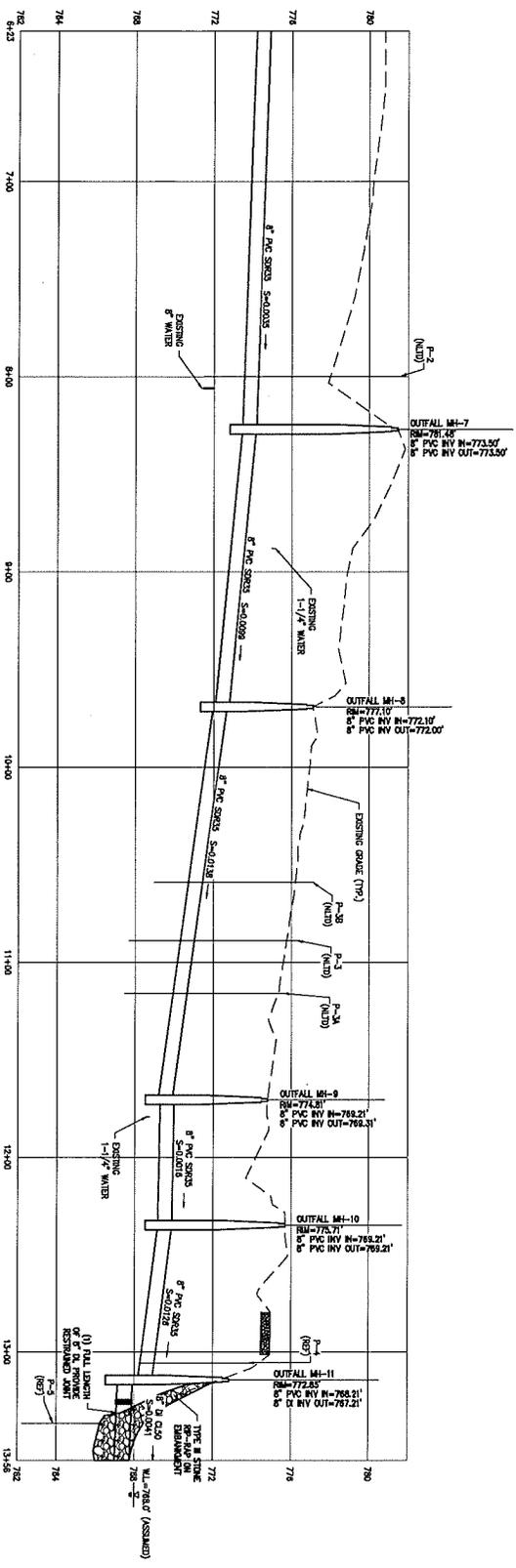
THIS APPROVAL IS SUBJECT TO THE TERMS AND CONDITIONS OF STREAM ALTERATION PERMIT *ST-3-105-28860* HEREWIT



PLAN
SCALE 1"=30'



- NOTES
1. ZAMPERI SHALL BE RESPONSIBLE FOR OBTAINING PERMITS OR LETTERS BY THE CONTRACTOR FOLLOWING COMPLETION OF CONSTRUCTION.
 2. MAINTAIN (1) ONE WAY TRAFFIC ON ROCKWAY HILL ROAD THROUGH SCIENCE AND BUSINESS WALK (1) ONE WAY TRAFFIC IS MAINTAINED.
 3. DO NOT ACCESS OVER PAVED DRIVE WITH ANY EQUIPMENT WITH TIRES/FLARES.



PROFILE
SCALE HORIZ=1"=30'
SCALE VERT=1"=3'

		Aldrich + Elliott 500 North Main Street Shelburne, VT 05482 P. 802.877.7733 AEAshburn.com	
TOWN OF WILLIAMSTOWN, VERMONT		WASTEWATER TREATMENT FACILITY RESTURISHMENT CONTRACT NO. 1	
DESIGNED DRAWN CHECKED DATE	PROJECT NO. 150772	PROPOSED OUTFALL PLAN STATION FILE 61-23 TO 31-96	APRIL 2016
C8		APRIL 2016	

Ross, Patrick

To: Kirn, Rich
Subject: RE: Williamstown - Stream Alteration Permit

From: Kirn, Rich
Sent: Wednesday, April 20, 2016 8:08 AM
To: Ross, Patrick <Patrick.Ross@vermont.gov>
Subject: RE: Williamstown - Stream Alteration Permit

Pat,

I visited the site and have the following recommendations:

- Instream construction should be limited to the period of June 1 – Oct 1 to protect wild brook trout reproduction within the Stevens Branch and its tributary.
- The restoration of the stream channel where pipeline crossings are proposed should include a gradation of materials, including fines, as required for bed armor treatments. Currently the proposal calls for Type III stone. Streambed and channel roughness characteristics should match adjacent sections of the unaltered stream upon completion.

*Rich Kirn
Fisheries Program Manager
Vermont Department of Fish and Wildlife
3902 Roxbury Road
Roxbury, VT 05669
(802) 485-7566
rich.kirn@vermont.gov*

Streambed Stone Fill Design Guidance

Type	Velocity Range (fps) *	Embeddness (in)
E1	$V < 9$	18
E2	$9 < V \leq 11$	24
E3	$11 < V \leq 13$	36
E4	$13 < V \leq 15$	48

*Maximum velocity should be based on a minimum 50-year design flow rate and calculated at the structure outlet.

Item xxx.xxx CY Streambed Stone Fill Specification

Type E1. The longest dimension of the stone shall be at least 18 inches, and at least 50 percent of the volume of the stone in place shall have a least dimension of 12 inches, and at least 25 percent of the particles shall have a maximum dimension of 2 inches and be well graded material.

Type E2. The longest dimension of the stone shall be at least 24 inches, and at least 50 percent of the volume of the stone in place shall have a least dimension of 18 inches, and at least 25 percent of the particles shall have a maximum dimension of 2 inches and be well graded material.

Type E3. The longest dimension of the stone shall be at least 36 inches, and at least 50 percent of the volume of the stone in place shall have a least dimension of 24 inches, and at least 25 percent of the particles shall have a maximum dimension of 2 inches and be well graded material.

Type E4. The longest dimension of the stone shall be at least 48 inches, and at least 50 percent of the volume of the stone in place shall have a least dimension of 36 inches, and at least 25 percent of the particles shall have a maximum dimension of 2 inches and be well graded material.

Notes

- The streambed stone fill shall be hard, blasted, angular rock other than serpentine rock containing the fibrous variety chrysotile (asbestos). Similar sized river sediment is an acceptable alternative as is a mixture of angular material and river sediment.
- Stone placed inside of a closed structure shall be placed such that the structure is not damaged.
- Care shall be taken to limit segregation of the materials.
- Add sand borrow item as needed to seal the bed and prevent subsurface flow.
- There shall be no subsurface flow upon final inspection.