

Vermont Department of Environmental Conservation

Watershed Management Division
Springfield Regional Office
100 Mineral Street, Suite 303
Springfield, VT 05156
www.watershedmanagement.vt.gov

Agency of Natural Resources

[phone] 802-885-8855
[fax] 802-885-8890
[cell] 802-345-3510

AUTHORIZATION TO CONDUCT STREAM ALTERATION ACTIVITIES

Pursuant to Section C.2.2.4 of the VT Stream Alteration General Permit (Reporting activities not requiring an application)

Project Number: **SA-05-001-2015 Jamaica Goodaleville Rd TH 8 BR 34**
Applicant Name: Selectboard, Town of Jamaica, Vermont
Mailing Address: Town of Jamaica, 28 Pikes Falls Rd, Vermont 05343
Project Location: Goodaleville Road Bridge 34 over the Winhall River

FEMA # PA-01-VT-4022-PW-01459(3)
Contact: Louis Bruso or Paul Fraser
Phone: (802) 874-4681 or (802) 874-8193
Email: lbruso@gmail.com ; frasercrew@aol.com

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

1. This project authorizes the replacement of a 68' span bridge lost in T.S. Irene with a 72' span bridge. The final bridge design plans shall be submitted to Todd Menees for review and approval prior to construction.
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 attached plans dated 1/22/15, prepared by Holden Engineering, and final bridge design plans shall be submitted for review and final approval by the VT ANR.
 - 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) In-stream working dates for all GP activities are from July 1st through October 1st; any in-stream work outside these dates will require an Individual Stream Alteration Permit authorization by the River Management Engineer.
 - i) This authorization has been posted for three days public comment. This authorization constitutes final approval.

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.

Signed this 22nd day of January, 2015

David K. Mears, Commissioner

Department of Environmental Conservation



by _____

Todd Menees, P.E., P.H., River Management Engineer

This permit expires October 1, 2015.

HOLDEN

ENGINEERING & SURVEYING, INC.

P.O. Box 460 / Concord, NH 03302-0460 / 603-225-6449
9 Constitution Drive / Bedford, NH 03110 / 603-472-2078
FAX 603-225-8450 / hes@holdenengineering.com

January 22, 2015

1470041

Department of Environmental Conservation
100 Mineral Street
State Office Suite 303
Springfield, Vermont 05156

Attention: Todd Menees
A.N.R. River Management Engineer

**RE: Floodplain Elevations
Proposed Gooddaleville Road Bridge
Jamaica, VT**

Dear Mr. Menees,

The following summary and attachments are respectfully offered for your consideration. They were prepared in accordance with a request for supplemental hydraulic study following our report dated January 9, 2015. Sketches illustrating the preliminary bridge layout plan and elevation of the bridge that is proposed at this site are attached to this summary.

The river channel, in its current configuration at the bridge site, has a waterway opening of 1001 sf. during a 100 year storm. The estimated waterway opening provided by the bridge that was destroyed by Hurricane Irene was 756 sf. for the same storm. The net waterway opening provided by the proposed bridge, adjusted for incidental fill required in the approaches to the bridge, is 1024 sf. These conditions are shown on the cross section sheets that are attached to this summary.

Based on this information, we are able to conclude that the flood water elevation on the flood plain area, that is the southerly approach to the bridge, will not be raised as a result of the construction of this bridge crossing. The same water surface will be lower for the proposed bridge than the original bridge, as the volume of water that can pass underneath it and not be forced into the floodplain will be larger.

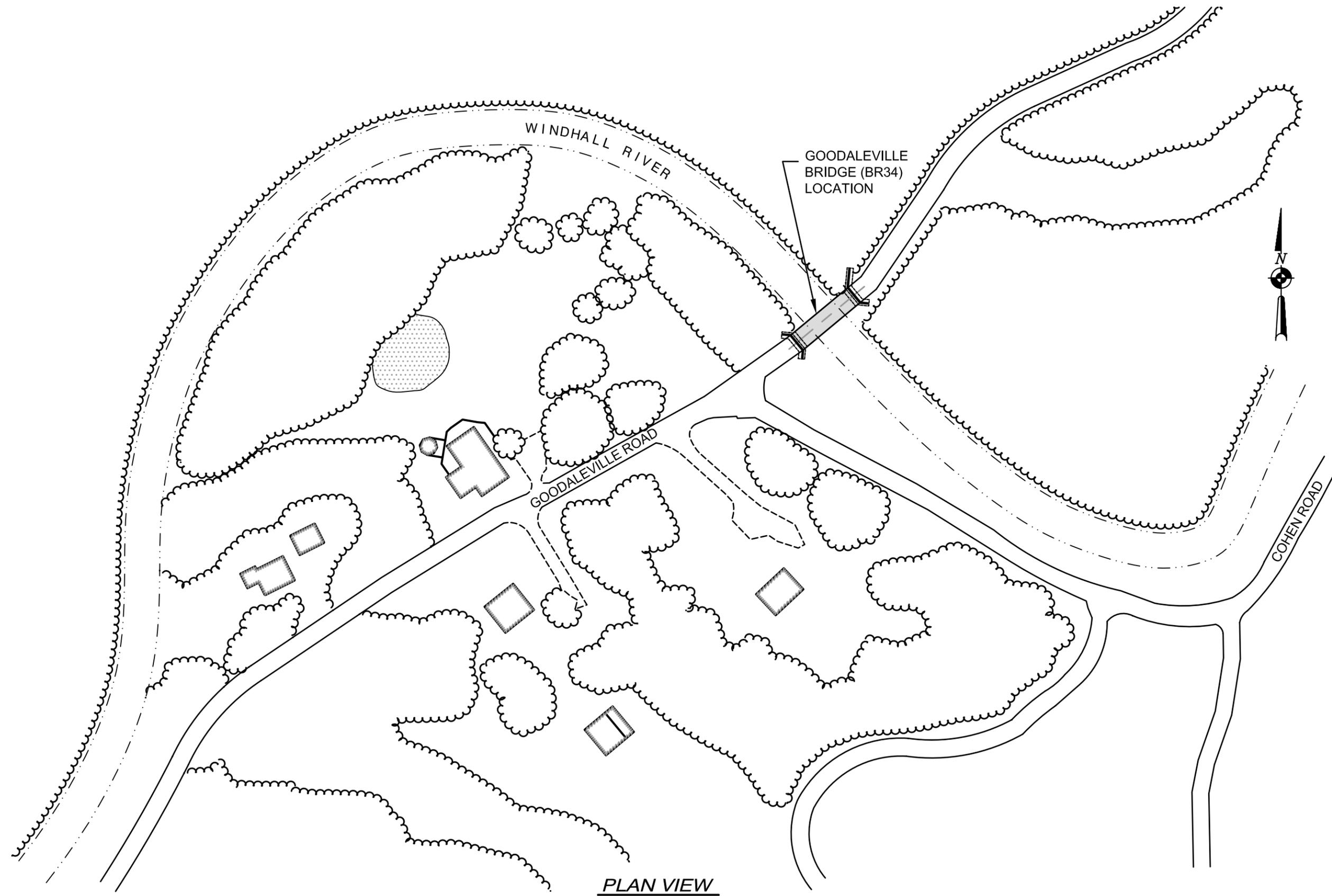
I hope that this information will be of assistance to you in understanding and evaluating this issue. If you should have any additional questions about this matter, or this summary, then please contact this office at your earliest convenience.

Sincerely,

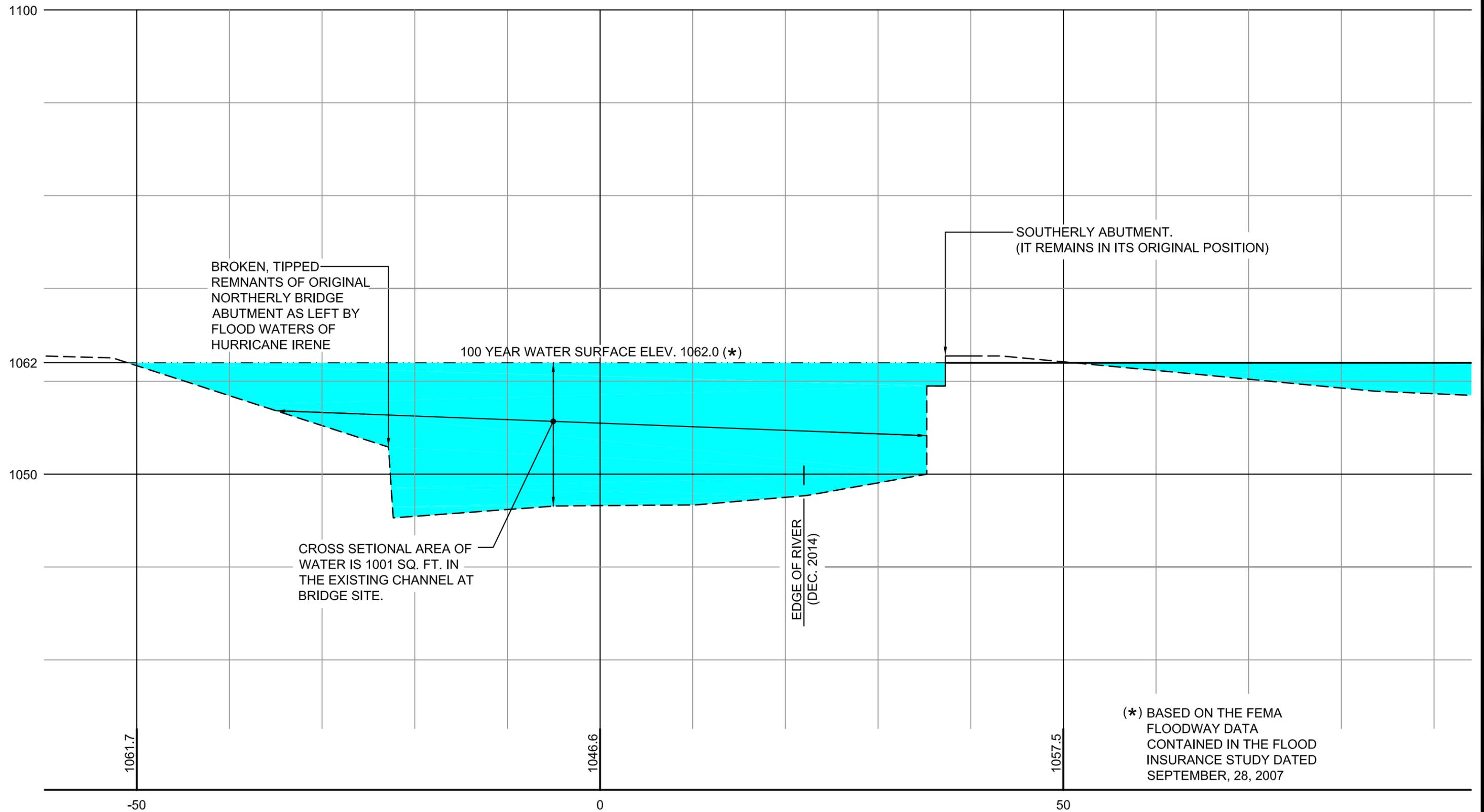


Lee H. Eddins, P.E.

cc: Terri Garland – Town of Jamaica



PLAN VIEW
 Scale: 1"=100'

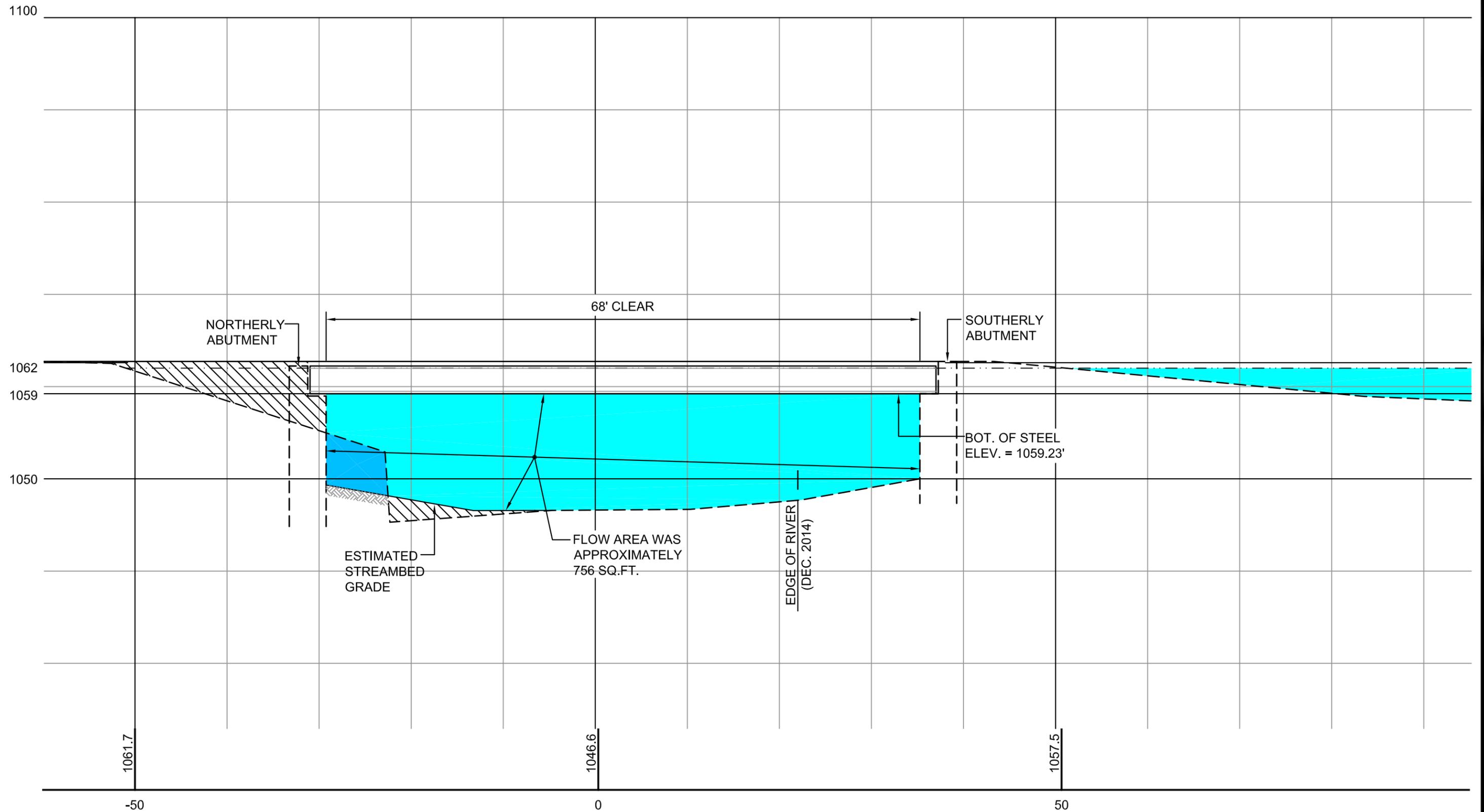


CROSS SETIONAL AREA OF WATER IS 1001 SQ. FT. IN THE EXISTING CHANNEL AT BRIDGE SITE.

(*) BASED ON THE FEMA FLOODWAY DATA CONTAINED IN THE FLOOD INSURANCE STUDY DATED SEPTEMBER, 28, 2007

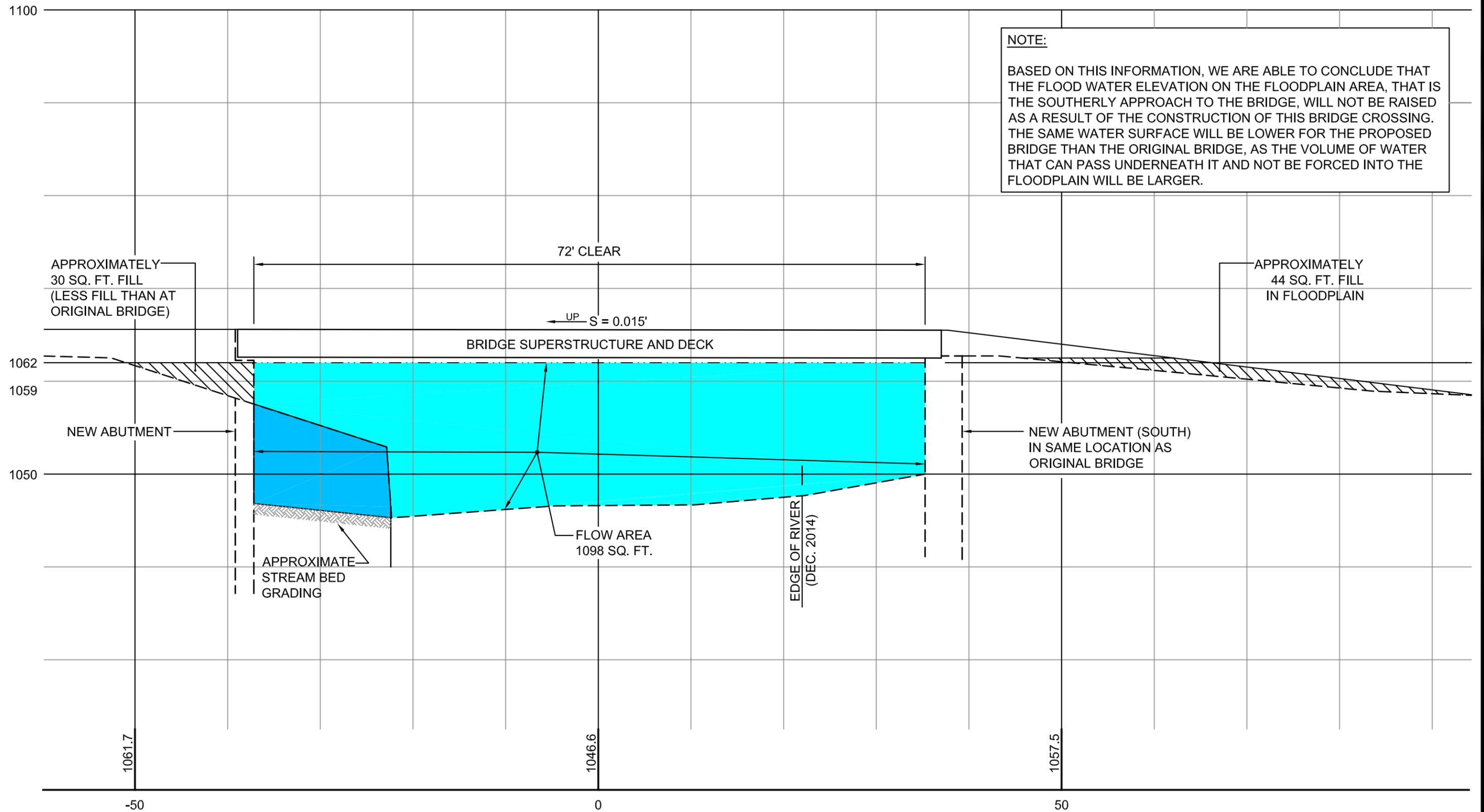
EXISTING CROSS SECTION - LOOKING DOWNSTREAM

Scale: 1"=10'



ORIGINAL BRIDGE SECTION - LOOKING DOWNSTREAM

Scale: 1"=10'



PROPOSED BRIDGE SECTION - LOOKING DOWNSTREAM

Scale: 1"=10'