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# PUBLIC NOTICE



**US Army Corps  
of Engineers**  
New England District

8 Carmichael Street, Suite 205  
Essex Junction, Vermont 05452

**Comment Period Begins:** 11 SEP 2012  
**Comment Period Ends:** 11 OCT 2012  
**File Number:** NAE-2006-0550  
**In Reply Refer To:** Michael S. Adams  
**Phone:** (802) 872-2893  
**E-mail:** Michael.s.adams@usace.army.mil

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The District Engineer has received a permit application from the applicant below to **conduct work in waters of the United States** as described below.

**APPLICANT: Vermont Gas Systems, Inc., ATTN: Christopher LeForce, P.O. Box 467, Burlington, Vermont 05402**

## ACTIVITY

Place fill in waters of the United States in conjunction with the construction of 7.95 miles of a new 16-inch natural gas transmission line within an existing corridor between existing Gate Stations off Nason Street in St. Albans and Sandy Birch Road in Georgia, Vermont. The work is described as follows:

The right-of-way from St. Albans to Georgia is currently cleared to a width of approximately 50' for the existing 10-inch gas transmission line that provides service to the Burlington area. The new line will be installed in a trench generally offset 10 feet from the existing line and will cross 9,511 linear feet of wetland and 20 streams. Approximately 519,206 sq. ft. (11.92 acres) of wetlands and approximately 15,988 sq. ft. (0.38 acre) of stream bottom will be temporarily impacted by the trench, sidecast material and construction mats. Trenches in which the pipe will be installed will be backfilled with indigenous material, with contours restored. All temporary fills will be removed in their entirety upon project completion and disposed of at an upland, non-wetland location. Approximately 4,371 sq. ft. (0.10 acre) of wetland and 30 sq. ft. (0.001 acre) of stream will be impacted by mechanized tree clearing within the right-of-way.

The purpose of the project is to increase gas reliability to existing customers and to increase gas capacity to provide natural gas to new customers.

In that this project involves the installation of a new natural gas transmission line within an existing right-of-way alternative routes were not considered since they would likely involve greater impacts to waters of the United States. To minimize the impacts to aquatic resources the gas line will be installed by directional bore across 1475 linear feet of a large wetland complex and for two crossings of Rugg Brook. Additionally, the work across wetland will be restricted to within the existing 50' right-of-way, where as the work across the upland will be restricted to a 75' right-of-way. The project has been designed such that impacts to wetlands and waterways have been avoided and minimized to the maximum extent practicable while maintaining the project objectives. All areas of temporarily disturbed soils, including access and construction areas will be regraded, seeded, and restored upon project completion. As the impacts of the project are predominantly temporary and within an existing maintained cleared right-of-way the Corps has determined that mitigation is not warranted.

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The work is partially described on the enclosed plans, in eleven sheets, entitled "PROPOSED: Natural Gas Pipeline" and dated "07/17/12". The entire set of wetland and stream impact plans can be viewed by contacting Christopher LeForce with VT Gas Systems at (802) 951-0394.

**WATERWAY AND LOCATION OF THE PROPOSED WORK**

The northern end of the project site is located on the St. Albans, VT USGS quadrangle sheet at UTM coordinates N 4962502.0 and E 649514.0. The southern end of the project site is located on the Georgia Plains, VT USGS quadrangle sheet at UTM coordinates N 4950792.0 and E 647889.0.

**AUTHORITY**

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
- Section 404 of the Clean Water Act
- Section 103 of the Marine Protection, Research and Sanctuaries Act).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 as amended.

## NATIONAL HISTORIC PRESERVATION ACT

Based on his initial review, the District Engineer has determined that little likelihood exists for the proposed work to impinge upon properties with cultural or Native American significance, or listed in, or eligible for listing in, the National Register of Historic Places. Therefore, no further consideration of the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended, is necessary. This determination is based upon one or more of the following:

- a. The permit area has been extensively modified by previous work.
- b. The permit area has been recently created.
- c. The proposed activity is of limited nature and scope.
- d. Review of the latest published version of the National Register shows that no presence of registered properties listed as being eligible for inclusion therein are in the permit area or general vicinity.
- e. Coordination with the State Historic Preservation Officer and/or Tribal Historic Preservation Officer(s).

## ENDANGERED SPECIES CONSULTATION

The New England District, Army Corps of Engineers has reviewed the list of species protected under the Endangered Species Act of 1973, as amended, which might occur at the project site. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect any Federally listed endangered or threatened species or their designated critical habitat. By this Public Notice, we are requesting that the appropriate Federal Agency concur with our determination.

The following authorizations have been applied for, or have been, or will be obtained:

- Permit, License or Assent from State.
- Permit from Local Wetland Agency or Conservation Commission.
- Water Quality Certification in accordance with Section 401 of the Clean Water Act.

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Michael S. Adams at (802) 872-2893.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

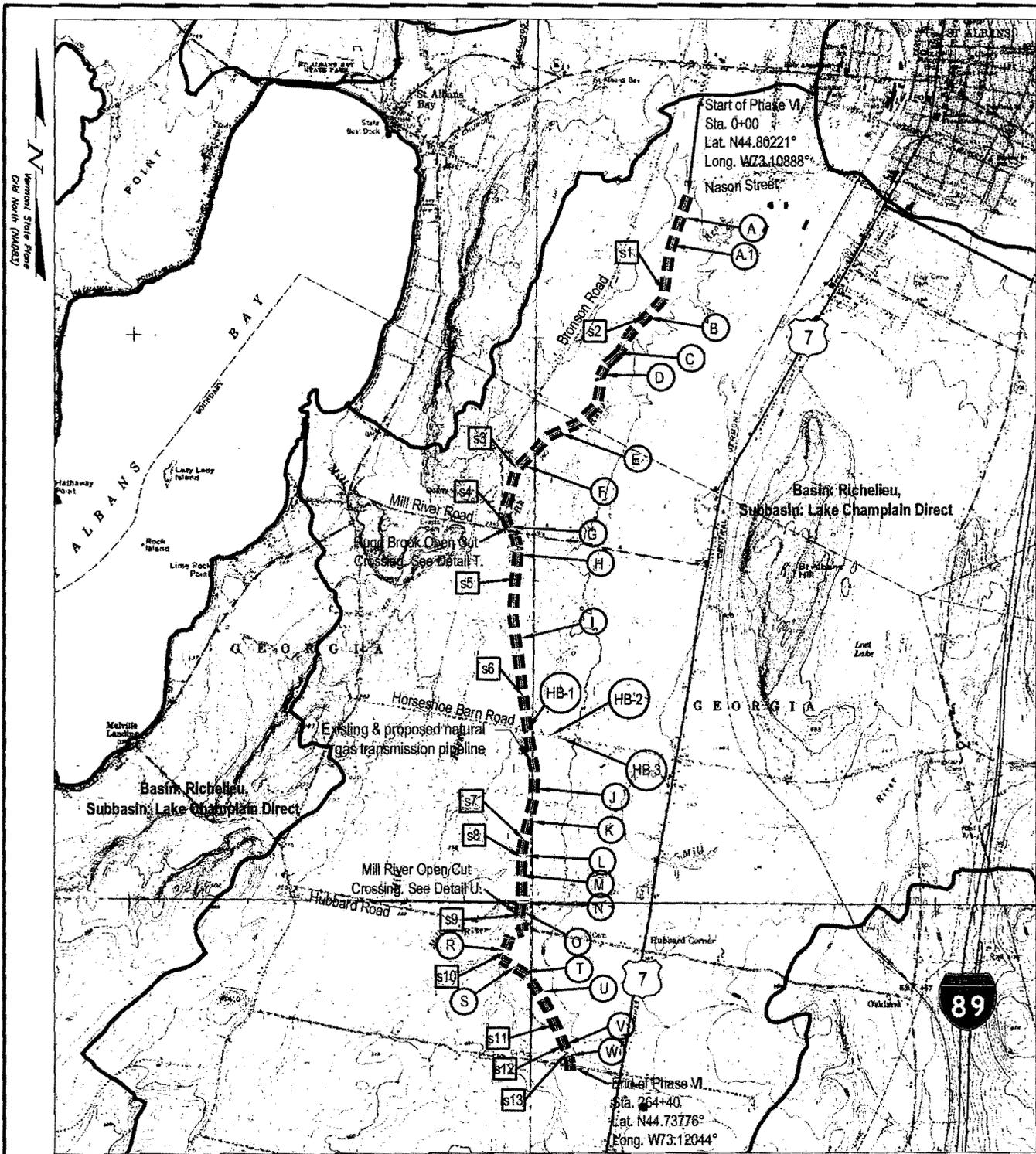
In accordance with 33 CFR 325.2(a)(8), we publish monthly a list of permits issued or denied during the previous month at [www.nae.usace.army.mil/reg](http://www.nae.usace.army.mil/reg), under the heading "Monthly General and Individual Permit Authorizations." Relevant environmental documents and the SOFs or RODs are available upon written request and, where applicable, upon the payment of administrative fees. Also visit [www.nae.usace.army.mil](http://www.nae.usace.army.mil) for more information on the New England District Corps of Engineers programs.

**THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.**

  
**Frank DelGiudice**  
**Chief, Permits and Enforcement Branch**  
**Regulatory Division**

If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at [bettina.m.chaisson@usace.army.mil](mailto:bettina.m.chaisson@usace.army.mil). You may also check here ( ) and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_



**Legend**

- (A) Wetland Identification (Wetlands A-W)
- (s10) Stream Identification (Streams s1-s13)
- Watershed Basin Delineation  
(Shapefile downloaded from VCGI Fresh Water Resources Folder)
- ===== Centerline of Proposed 16" Natural Gas Transmission Line

Source:  
 Vermont Gas System, Inc.  
 Drawings for Proposed System  
 Expansion: Phase VI

Prepared by Krebs and Lansing  
 Consulting Engineers, Inc.

**PROJECT LOCATION MAP**

**PHASE VI**

SCALE: 1" = 4000'

**PROPOSED: Natural Gas Pipeline**

**IN: Various Streams & Wetlands**

**AT: Georgia & St. Albans, Vermont**

**APPLICATION BY: Vermont Gas Systems, Inc.**

DATE: 07/17/12 | SHEET: 1 of 11

Wetland Letter	Crossing Stations	Abutter	St. of VT Wetland Class	Temporary Wetland Impact (s.f.)	Permanent Wetland Impact (s.f.)	Classification	Sheet #'s
A	Station 0+00 to 12+82	Nicole Lapierre	Class 2	132,050	0	PEMC	5,14,29,30
A.1	Station 14+14 to 14+25	Nicole Lapierre	Class 2	0	0	PEMB	5,14,30
B	Station 34+92 to 35+50	Fraser Holdings, LLC	Class 2	2,599	0	PSS1/EME	6,15,31
C	Station 48+40 to 50+00	Fraser Holdings, LLC	Class 2	0	0	PSS1/EME	6,15,31
D	Station 55+22 to 55+64	Fraser Holdings, LLC	Class 3	0	1,704	PSS1/EME (1,704 s.f. wooded)	6,16,32
E	Station 76+44 to 77+44	Jeffery&Jason Boissoneault	Class 2	5,033	0	PEME	7,17,33
F	Station 86+19 to 89+35 Station 91+40 to 91+55	Jeffery&Jason Boissoneault & Paradis	Class 2	16,220	0	PEMC (north) PEMF (swale)	7,18,34
G	Station 107+94 to 108+73	Gordon & Kathleen Babcock	Class 2	3,440	0	PEMC	7,19,35
H	Station 111+18 to 117+42 Station 118+88 to 122+60	Gordon & Kathleen Babcock	Class 2	44,572	0	PEMC/PEMC/PEMB (3 sect. N to S)	8,20,36,37
I	Station 133+84 to 141+29	Gordon & Kathleen Babcock	Class 2	29,736	2,667	PSS1/EMC, PEMI/PEMC, PFO/SSI off corridor,(2,667 s.f. wooded)	8,9,21,22, 38,39,40
HB-1	Access to Station 164+00	Town of Georgia	Class 3	650	0	PEMC	9,23,41
HB-2	Access to Station 164+00	Town of Georgia	Class 3	348	0	PEMC	9,23,41
HB-3	Access to Station 164+00	Town of Georgia	Class 3	526	0	PEMC	9,23,41
J	Station 179+11 to 180+00	Bernard	Class 2	4,754	0	PEMC	10,24,42
K	Station 184+33 to 190+74 Station 192+91 to 194+93	Lloyd & Marie Longe	Class 2	37,400	0	PEMC PFO4 off ROW	10,24, 43,44
L	Station 195+35 to 200+19	Lloyd & Marie Longe & David Juire	Class 2	17,187	0	PEMC PFO4 off ROW	10,24, 25,44
M	Station 203+37 to 203+75	David Juire	Class 3	338	0	PSS4/EMC (Xmas Tree farm)	10,25,44
N	Station 209+03 to 210+97	Juire & Devarney & Bushey	Class 3	4,418	0	PSS1/EMC	10,11,25,45
O	Station 212+30 to 213+89	Devarney	Class 2	6,751	0	PEMB	11,26,45
R	Station 227+21 to 227+34	Varhue	Class 3	786	0	PEMB	12,26,46
S	Station 231+96 to 232+50	Varhue	Class 3	2,077	0	PEMC	12,26,47
T	Station 234+56 to 235+88	Varhue	Class 3	2,634	0	PEMC	12,27,47

Source:  
Vermont Gas System, Inc.  
Drawings for Proposed System  
Expansion: Phase VI

Table 1-A  
Wetlands Impacted  
by Phase VI  
Pipeline Construction

PROPOSED: Natural Gas Pipeline  
A.T. St. Albans & Georgia,  
Vermont  
APPLICATION BY: Vermont Gas  
Systems, Inc.  
DATE: 07/17/12 SHEET: 2 of 11

Prepared by Krebs and Lansing  
Consulting Engineers, Inc.

Wetland Letter	Crossing Stations	Abutter	St. of VT Wetland Class	Temporary Wetland Impact (s.f.)	Permanent Wetland Impact (s.f.)	Classification	Sheet #'s
U	Station 236+75 to 252+01	Varhue & Emond & Marshall	Class 2	74,916	0	PSS1/EMB	12,13,27,28 48,49
V	Station 257+48 to 258+30	Marshall	Class 2	3,842	0	PEMH/EMH	13,28,50
W	Station 260+48 to 261+40	Town of Georgia	Class 3	4,487	0	PEMC	13,28,50
<i>Total Temporary Wetland Impact:</i>				394,764 s.f. (9.062 ac.)			
<i>Total Permanent Wetland Impact:</i>						<p><b>NOTE:</b> Permanent Wetland Impacts are due to mechanized tree clearing in the wetlands for staging areas of horizontal directional bores.</p>	
<p>Table 1-B Wetlands Impacted by Phase VI Pipeline Construction</p>							
<p><b>PROPOSED: Natural Gas Pipeline</b> AT: St. Albans &amp; Georgia, Vermont APPLICATION BY: Vermont Gas Systems, Inc. DATE: 07/17/12 SHEET: 3 of 11</p>							

Prepared by Krebs and Lansing Consulting Engineers, Inc.

Source:  
Vermont Gas System, Inc.  
Drawings for Proposed System  
Expansion: Phase VI

Stream Label	Station	Abutter	Description/ Classification	Ordinary High Water Depth (ft.)	Temporary Stream Impact (s.f.)	Permanent Stream Impact (s.f.)	Sheet #'s
s1	25+10	A.R. Brooks & Sons, Inc.	Farm ditch/swale leading to Rugg Brook	0.9	415	0	5,14
s2	35+25	Fraser Holdings, LLC	Intermittent stream	0.5	206	0	6,15,31
s3	91+50	Larry & Marie Paradis	Small perennial stream	1.0	452	0	7,18,34
s4	108+14	Gordon & Kathleen Bobcock	Perennial stream (Rugg Brook)	3.0	704	0	7,19,35
s5	122+30	Gordon & Kathleen Bobcock	Intermittent stream	0.5	773	0	8,20,37
s6	153+52	St. Hilaire	Intermittent stream	2.0	0	0	9,22,40
s7	194+20	Lloyd & Marie Longe	Intermittent stream through swale	0.5	207	0	10,24,44
s8	198+90	Lloyd & Marie Longe	Intermittent stream	0.5	207	0	11,25,44
s9	215+50	Walter & Marcella Krul	Perennial Stream (Mill River)	4.0	878	0	11,26
s10	227+17	Walter & Mary Vorhues	Ditch in field leading to intermittent stream	1.0	328	0	12,26,46
s11	251+72	Ronald Marshall	Intermittent stream	0.5	318	0	13,28,49
s12	258+04	Ronald Marshall	Intermittent stream through hayfield	0.3	414	0	13,28,50
s13	259+83	Norine Daugherty	Small perennial stream	0.5	307	30	13,28,50
<b>Total Temporary Stream Impact:</b>					5,209 s.f. (0.120 ac.)		
<b>Total Permanent Stream Impact:</b>						30 s.f. (0.001 ac.)	

**Note:**  
Individual stream impacts are shown on Stream Crossing Impacts Sheets 1-11.

**Note:**  
Permanent stream impacts are due to mechanized tree clearing in the stream.

Source:  
Vermont Gas System, Inc.  
Drawings for Proposed System  
Expansion: Phase VI

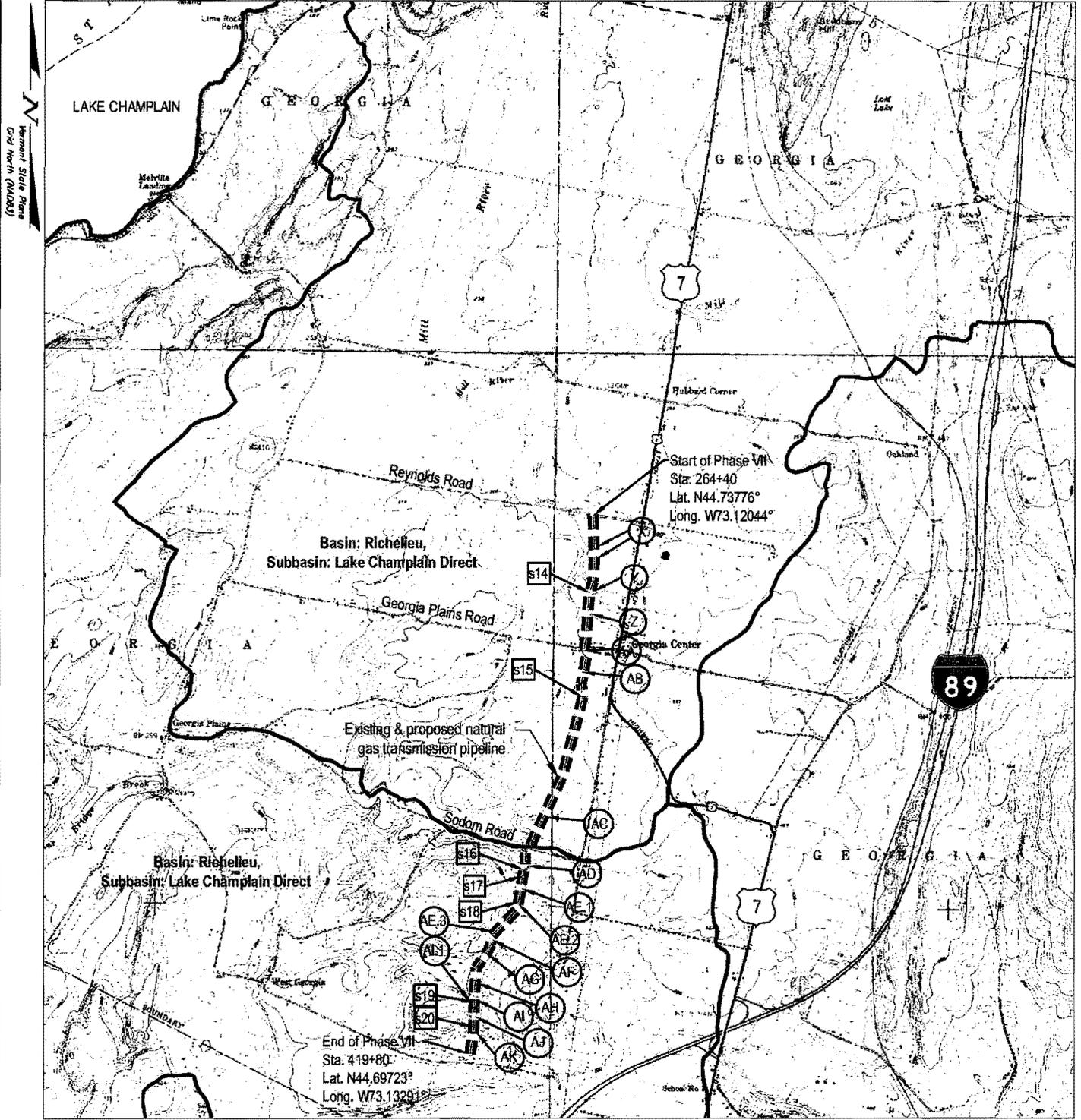
Prepared by Krebs and Lansing  
Consulting Engineers, Inc.

Table 1-C  
Streams Impacted  
by Phase VI  
Pipeline Construction

PROPOSED: Natural Gas Pipeline

A.T. St. Albans & Georgia,  
Vermont  
APPLICATION BY: Vermont Gas  
Systems, Inc.

DATE: 07/17/12 SHEET: 4 of 11



**Legend**

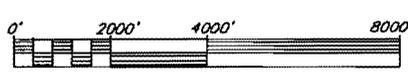
- (A) Wetland Identification (Wetlands X-AK)
- (s10) Stream Identification (Streams s14-s20)
- Watershed Basin Delineation  
(Shapelite downloaded from VCGI Fresh Water Resources Folder)
- ===== Centerline of Proposed 16" Natural Gas Transmission Line

Source:  
Vermont Gas System, Inc.  
Drawings for Proposed System  
Expansion: Phase VII

**PROJECT LOCATION MAP**

**PHASE VII**

SCALE: 1" = 4,000'



**PROPOSED: Natural Gas Pipeline**

**IN: Various Streams & Wetlands**

**A T: Georgia, Vermont**

**APPLICATION BY: Vermont Gas Systems, Inc.**

Prepared by Krebs and Lansing  
Consulting Engineers, Inc.

DATE: 07/17/12 SHEET: 5 of 11

Wetland Letter	Crossing Stations	Abutter	St. of VT Wetland Class	Temporary Wetland Impact (s.f.)	Permanent Wetland Impact (s.f.)	Classification	Sheet #'s
X	Station 272+09 to 273+95 Station 275+15 to 275+84	Rooney & Chojnowski	Class 2	12,475	0	PEMC	4,10,18
Y	Station 285+08 to 285+24	Rooney	Class 2	840	0	PEMH	5,10,19
Z	Station 289+91 to 292+51	Rooney	Class 2	12,620	0	PEMB	5,11,19
AA	Wetland doesn't intercept Pipe	Lomas & Gilmond	Class 2	0	0	PEMH	5,11,20
AB	Station 305+48 to 305+64 Station 312+10 to 318+75	Gilmond	Class 2	30,626	0	PEME	5,6,12,20,21
AC	Station 348+94 to 349+37	Ballard Revocable Trust	Class 3	2,008	0	PEMC	7,13,22
AD	Station 363+13 to 364+12	Ballard Revocable Trust	Class 2	4,163	0	PEMC	7,13,22
AE.1	Station 368+76 to 369+76	Ballard Revocable Trust	Class 2	3,284	0	PEMB	7,14,23
AE.2	Station 371+78 to 377+99	Ballard Revocable Trust	Class 2	30,007	0	PEMB	7,8,14,23
AE.3	Station 384+55 to 384+71	Ballard Revocable Trust	Class 2	1,084	0	PEMB	8,15,24
AF	Station 385+90 to 387+67	Ballard Revocable Trust	Class 3	6,455	0	PSSI/EMC under powerline PEMC near Vernal	8,15,24
AG	Station 390+65 to 391+11	Ballard Revocable Trust	Class 2	757	0	PSSI/EMC PFO4 off ROW	8,15,24
AH	Station 398+04 to 398+71 Station 400+53 to 402+24 Station 402+74 to 402+93	Branagan & Whitney	Class 2	11,569	0	PEMC PFO4 off ROW	8,9,15,25
AI	Station 404+54 to 404+84	Branagan & Whitney	Class 2	1,171	0	PEMC PFO4 off ROW	8,9,16,25
AI.1	Station 405+55 to 405+72	Branagan & Whitney	Class 2	624	0	PEMC PFO4 off ROW	8,9,16,25
AJ	Station 408+95 to 409+74	Branagan & Whitney	Class 2	4,023	0	PEMC PFO4 off ROW	9,16,25
AK	Station 413+00 to 413+49	Doyle	Class 2	2,736	0	PEMB PFO4 off ROW	9,16,25
Total Temporary Wetland Impact:				124,442 s.f. (2.857 ac.)			
Total Permanent Wetland Impact:					0 s.f. (0 ac.)		

Source: Vermont Gas System, Inc.  
Drawings for Proposed System Expansion: Phase VII

Prepared by Krebs and Lansing Consulting Engineers, Inc.

Table 1-A  
Wetlands Impacted by Phase VII Pipeline Construction

Phase 7 - Wetlands & Streams & Clearing Table.dwg

PROPOSED: Natural Gas Pipeline  
IN: Various Wetlands

A.T. Georgia, Vermont  
APPLICATION BY: Vermont Gas Systems, Inc.

DATE: 07/17/12 SHEET: 6 of 11

<i>Stream Label</i>	<i>Station</i>	<i>Abutter</i>	<i>Description/ Classification</i>	<i>Ordinary High Water Depth (ft.)</i>	<i>Temporary Stream Impact (s.f.)</i>	<i>Permanent Stream Impact (s.f.)</i>	<i>Sheet #'s</i>
s14	285+21	Rooney	Intermittent stream through hayfields	3.0	447	0	5,10,19
s15	314+90 & 318+42	Gilmand	Intermittent stream paralleling existing corridor	1.0	8,533	0	6,12,21
s16	363+93	Ballard Revocable Trust	Intermittent stream	1.0	611	0	7,13,22
s17	366+12	Ballard Revocable Trust	Intermittent stream	1.0	430	0	7,14,22
s18	374+20	Ballard Revocable Trust	Perennial stream	0.5	333	0	8,14,23
s19	405+67	Branagan & Whitney	Intermittent stream	1.0	200	0	9,16,25
s20	413+20	Doyle	Perennial stream	0.5	225	0	9,16,25
<b>Total Temporary Stream Impact:</b>					10,779 s.f. (0.247 ac.)		
<b>Total Permanent Stream Impact:</b>						0 s.f. (0 ac.)	

*Note:  
Individual stream impacts are shown on Stream Crossing Impacts Sheets 1-11.*

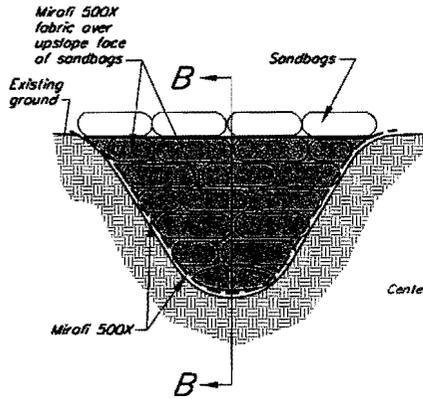
Source:  
Vermont Gas System, Inc.  
Drawings for Proposed System Expansion: Phase VII

Table 1-B  
Streams Impacted by Phase VII Pipeline Construction

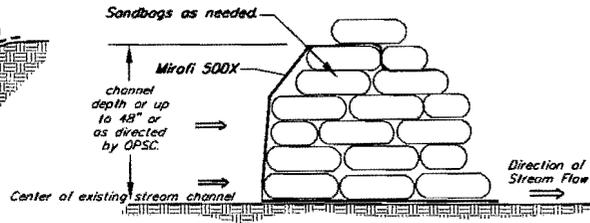
PROPOSED: Natural Gas Pipeline  
AT: Georgia, Vermont  
APPLICATION BY: Vermont Gas Systems, Inc.  
DATE: 07/17/12 SHEET: 7 of 11

Prepared by Krebs and Lansing Consulting Engineers, Inc.

Phase 7 - Wetlands & Streams & Clearing Tables.dwg



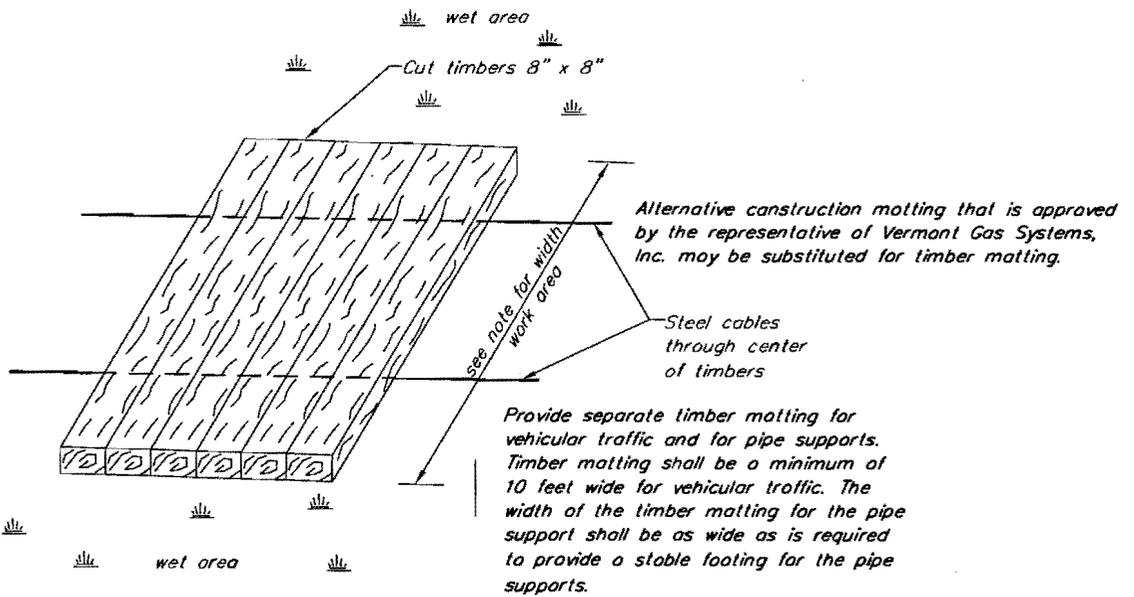
**Cross Section through Existing Stream Channel**



**Longitudinal Section B-B along Stream Channel**

**Stream Channel Sandbag Dike**

N.T.S.



**Timber Matting** N.T.S.

Krebs & Lansing  
 Consulting Engineers, Inc.  
 164 Main Street  
 Colchester, VT 05446  
 (802) 878-0375  
 Phase VI & VII

**DETAIL M**

Timber Matting & Sandbag Dike

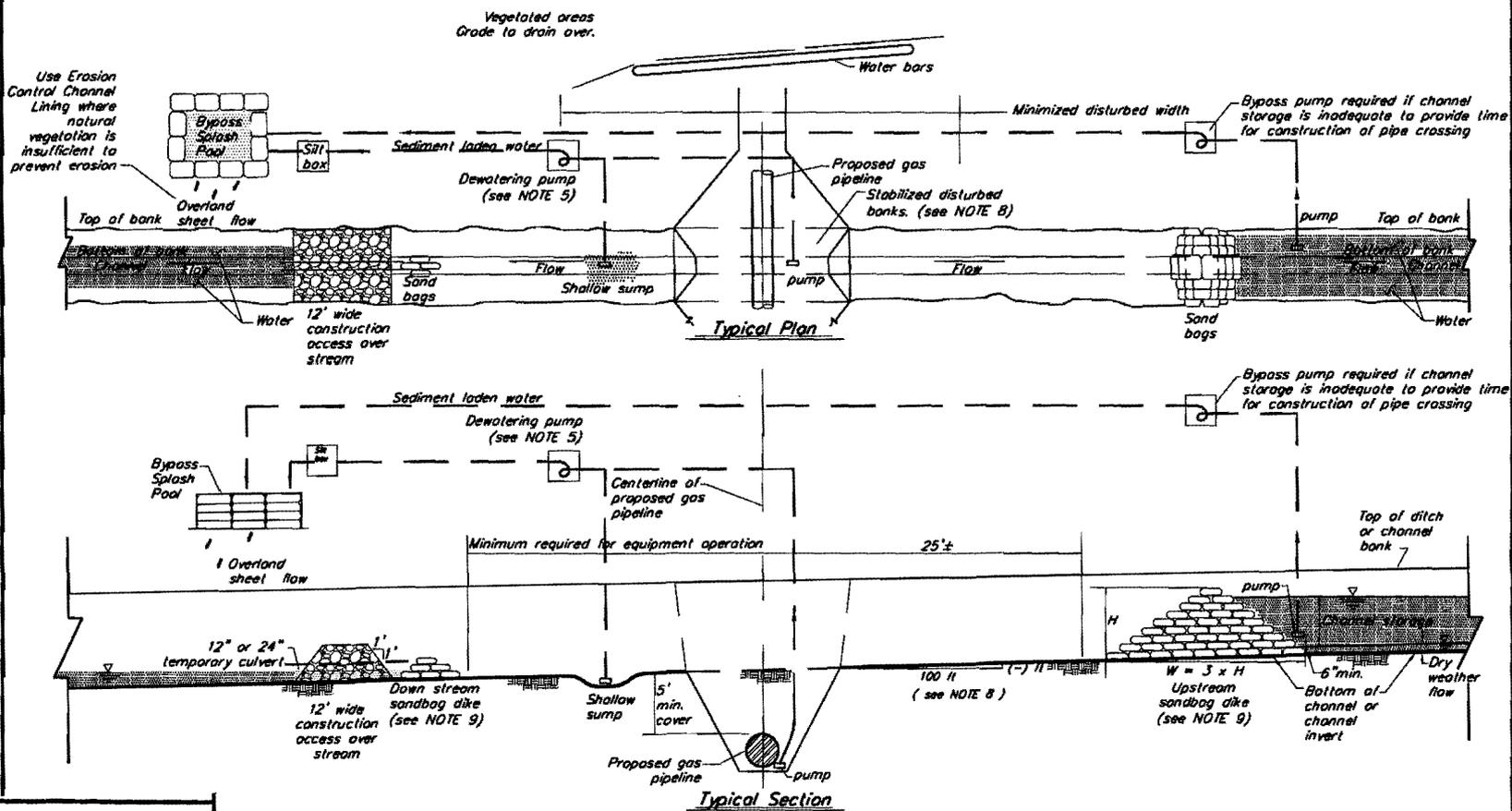
Erosion Prevention & Sediment Control Plan  
 Vermont Gas Systems, Inc.  
 Phases VI & VII

**PROPOSED: Natural Gas Pipeline**  
**IN: Various Streams & Wetlands**  
**AT: Georgia & St. Albans, Vermont**  
**APPLICATION BY: Vermont Gas Systems, Inc.**  
**DATE: 07/17/12 SHEET: 8 of 11**

Krebs & Lansing  
 Consulting Engineers, Inc.  
 164 Main Street  
 Colchester, VT 05446  
 (802) 878-0375  
 Phase VI & VII

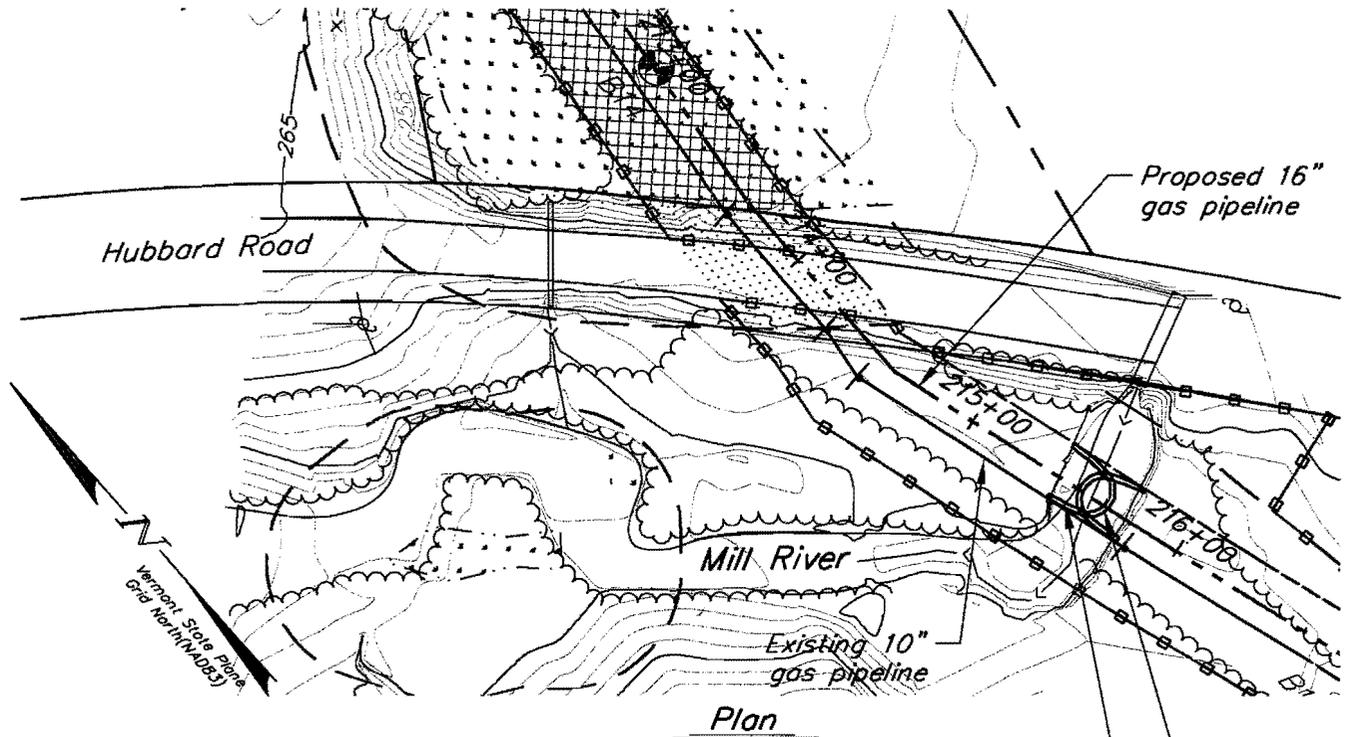
Low Flow Stream/Ditch Crossing  
 (Dewatering Operations)  
 Erosion Prevention & Sediment Control Plan  
 Vermont Gas Systems, Inc.  
 Phases VI & VII

DETAIL Q



Small Stream and Drainage Ditch Crossings

**PROPOSED:** Natural Gas Pipeline  
**IN:** Various Streams & Wetlands  
**AT:** Georgia & St. Albans, Vermont  
**APPLICATION BY:** Vermont Gas Systems, Inc.



Temporary cofferdam during Phase I of stream crossing. See Notes and Detail S.

Temporary cofferdam during Phase II of stream crossing. See Notes and Detail S.

**COFFER DAM CONSTRUCTION NOTES:**

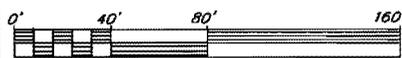
1. Erosion Control shall be installed prior to any earth disturbance.
2. Contractor shall excavate for new pipeline in two phases.
3. Contractor shall drill holes for metal pipes then place plywood against the pipe before placing sandbags.
4. Construction can only occur in times of low stream flow.
5. In addition to the two required pumps, the Contractor shall be responsible for having a backup pump capable of handling the maximum required flows on site at all times.
6. All disturbed channel banks shall be protected to the water level with North American Green S-75 or approved equal. Disturbed channel banks with slopes steeper than 1 vertical to 3 horizontal, or channel slopes greater than 2 feet in 100 feet shall be protected with channel liner, North American Green C-125, or approved equal.

Source:  
 Vermont Gas System, Inc.  
 Drawings for Proposed System  
 Expansion: Phase VI  
 2008 Vermont/Canadian Border  
 Orthoimagery

Prepared by Krebs and Lansing  
 Consulting Engineers, Inc.

Detail U  
 Phase VI  
 Mill River Open Cut Crossing

SCALE: 1" = 80'



Phase 6-State 80scale.dwg

PROPOSED: Natural Gas Pipeline

IN: Mill River

AT: Georgia, Vermont

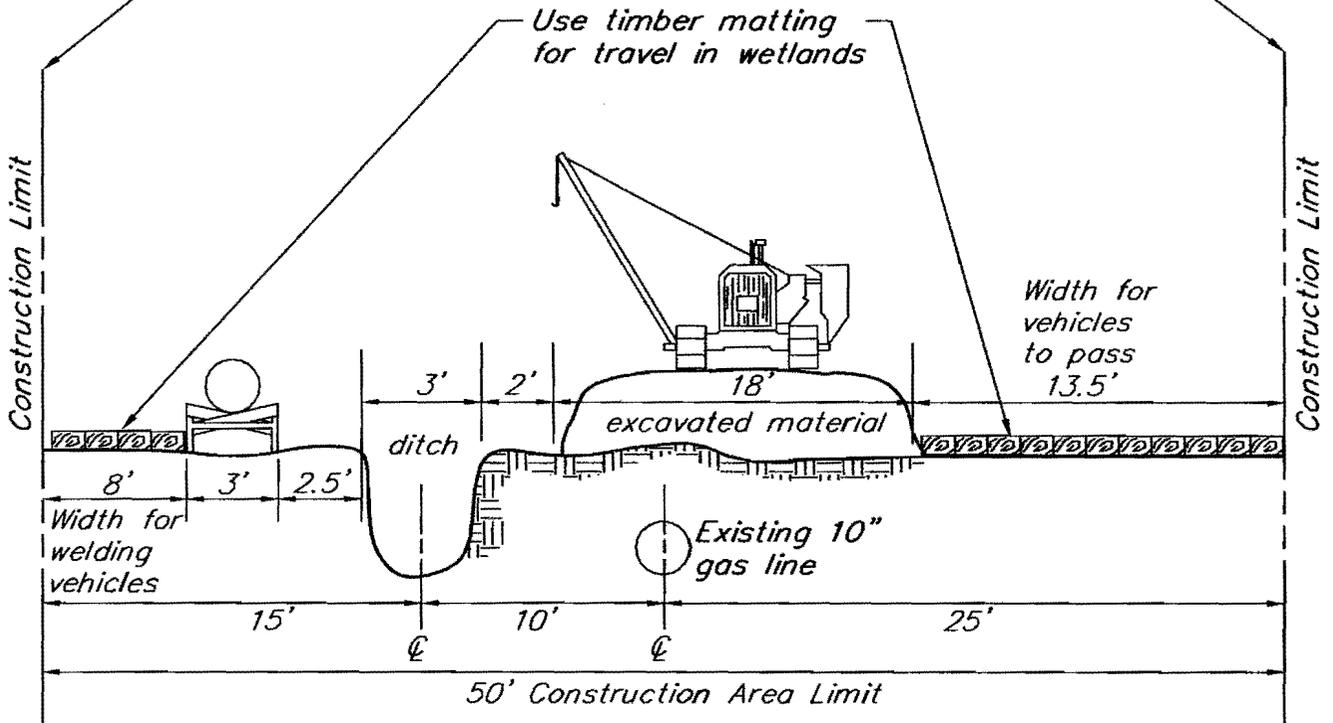
APPLICATION BY: Vermont Gas  
 Systems, Inc.

DATE: 07/17/12

SHEET: 10 of 11

Stake the construction limits prior to any clearing or construction. Install silt fence and/or construction limit fencing as/where required.

Use timber matting for travel in wetlands



Typical Construction Operation Limits For Construction in Wetlands (50' Wide Centered on Existing 10" Pipeline)

N.T.S.

**Notes:**

1. In no case shall the limits of disturbance extend beyond the 50' Construction Area Limit shown on the plans.
2. Any alternative layout in a wetland must be pre-approved by a VGS official or authorized representative.

Krebs & Lansing  
Consulting Engineers, Inc.  
164 Main Street  
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Phase VI & VII

**DETAIL V**  
Typical Construction Operation Limits  
For Construction in Wetlands (50' Wide)  
Centered on Existing 10" Pipeline  
Erosion Prevention & Sediment Control Plan  
Vermont Gas Systems, Inc.  
Phases VI & VII

PROPOSED: Natural Gas Pipeline  
IN: Various Streams & Wetlands  
AT: Georgia & St. Albans, Vermont  
APPLICATION BY: Vermont Gas Systems, Inc.  
DATE: 07/17/12 SHEET: 11 of 11