

Vermont Wetlands Program General Permit Qualification Form

Under Sections 9
of the Vermont Wetland Rules



VERMONT DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
WATERSHED
MANAGEMENT DIVISION
WETLANDS PROGRAM

1. General Permit Eligibility Checklist:

If you cannot verify all of the following, stop and proceed to the Individual Permit Application.

- The activity does not qualify as an Allowed Use under [Section 6](#) of the Vermont Wetland Rules.
- The activity does not need additional conditions to protect functions and values.
- All impacts have been avoided and minimized to the greatest extent possible.
- The wetland complex is not significant for Function 5.5 Exemplary Wetland Natural Community or 5.6 Rare, Threatened and Endangered Species Habitat, or applicant has received a waiver letter from VT Fish and Wildlife. (attach waiver)
- The activity is not located in or adjacent to a [vernal pool, fen, or bog](#).
- The wetland is not at or above 2,500' in elevation (headwaters wetland).
- The project is not located in a Class I wetland or associated buffer zone.
- The activity is not an as-built project that constitutes a violation of the Vermont Wetland Rules.
- The activity is not associated with an activity which received a Wetland Permit.

2. Project Type *(as described in the General Permit)*

3. Wetland Type Proposed for Impact

4. 50ft Wetland Buffer Proposed for Impact

5. **Activity Threshold** *based on the selections above, select the appropriate threshold. If the activity is greater than the thresholds below, stop and proceed to the Individual Permit Application. eg: Project type is non-linear, wetland and buffer type is managed and natural, and total impacts are 700 sqft → choose option (d) below.*

- (a) The total activity impacts proposed are <3,000 square feet of managed wetland or buffer **and** will not exceed 999 square feet of natural wetland or buffer **and** will not exceed 149 square feet of surface water margins.
- (b) The activity is associated with a linear project **and** total activity impacts proposed are <5,000 square feet of managed wetland or buffer **and** will not exceed 2,999 square feet of natural wetland or buffer **and** will not exceed 149 square feet of surface water margins.

6. **Section 8B Specific Activity Best Management Practices** *All permittees covered under the VT Wetland General Permit must implement best management practices (BMP) under section V. of the permit. Here, identify if the proposed activity must implement special BMPs in accordance with Section 8B*

- 8B(a) Placement, relocation, removal, or upgrade of overhead utility lines
- 8B(b) Installation of underground facilities including utilities, dry hydrants, foundation drains, and wells
- 8B(c) Activities in surface water body margins
- None Apply

The Secretary may require a person applying for an authorization under a general permit to apply for an individual permit. VWR §9.8. Contact your District Ecologist to verify eligibility before submittal.

Vermont Wetlands Program Permit Application Database Form

Under Sections 8 and 9
of the Vermont Wetland Rules



Application Submittal Instructions

- If submitting via US post, include a check in the correct fee amount made payable to the **“State of Vermont,”** and a CD for applications that contain large files (1 MB or greater).
Mail to: Vermont Wetlands Program
 Watershed Management Division
 One National Life Drive, Main 2
 Montpelier, VT 05620-3522

- Applications can also be submitted via email to the following address: anr.wsmdwetlands@state.vt.us
 - If submitting via email, please mail a check in the correct fee amount, made payable to the **“State of Vermont,”** and a copy of the Vermont Wetlands Program Application Database Form (this page) to the address provided above. ***It is not necessary to mail in a copy of the complete application.***

Applicant Name:	Application Preparer Name:
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Town where project is located:	County:
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Span#:	Vermont Wetlands Project (VWP)# if Known:
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Project Location Description:
911 street address or direction from nearest intersection

Brief Project Summary:

Application Type:
 Individual Permit (multiple wetlands)
 After the Fact Permit
 Wetland Determination
 Individual Permit (single wetland)
 General Permit Coverage Authorization
 Permit Amendment: VWP Project # _____

Existing Land Use Type(s): *(Check all that apply)*
 Residential (single family)
 Residential (subdivision)
 Undeveloped
 Agriculture
 Transportation
 Forestry
 Parks/Rec/Trail
 Institutional
 Industrial/Commercial

Proposed Land Use Type(s): *(Check all that apply)*
 Residential (single family)
 Residential (subdivision)
 Undeveloped
 Agriculture
 Transportation
 Forestry
 Parks/Rec/Trail
 Institutional
 Industrial/Commercial

Proposed Impact Type(s): *(Check all that apply)*
 Buildings
 Utilities
 Parking
 Septic/Well
 Stormwater
 Driveway
 Park/Path
 Agriculture
 Pond
 Lawn
 Dry Hydrant
 Beaver Dam Alteration
 Silviculture
 Road
 Aesthetics
 No Impact
 Other: _____

Wetland and Buffer Impact Type: *(Check all that apply)*
 Dredge
 Drain
 Cut Vegetation
 Stormwater
 Trench/Fill
 Other: _____

Wetland Delineation Date(s):

Wetland Improvements	Buffer Zone Improvements	Reason for Improvements
Restoration: s.f.	Restoration: s.f.	<input type="checkbox"/> Correction of Violation
Creation: s.f.	Creation: s.f.	<input type="checkbox"/> To offset permit impacts
Enhancement: s.f.	Enhancement: s.f.	<input type="checkbox"/> Voluntary
Conservation: s.f.	Conservation: s.f.	

Wetland Impact Fee Calculations: Round to the nearest square foot. Fees will auto-calculate.

Total Wetland Impact <i>(minus linear clear, including ATF)</i>	square feet (s.f.)	Wetland Impact Fee: (\$0.75/sf)	\$
Total Wetland Clearing <i>(qualified linear projects only)</i>	square feet (s.f.)	Wetland Clearing Fee: (\$0.25/sf)	\$
After The Fact Wetland Impact <i>(to correct a violation)</i>	square feet (s.f.)	After the Fact Wetland Fee: (0.75/sf) <i>(Required for after the fact permit applications)</i>	\$

Total Buffer Zone Impacts and Calculations: Round to the nearest square foot

Total Buffer Zone Impact	square feet (s.f.)	Buffer Impact Fee: (\$0.25/sf)	\$
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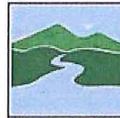
Additional Fees

	Agricultural Crop Conversion <i>Check here:</i> <i>(Flat fee of \$200.00)</i>	\$
	Minimum Application Fee: (\$50.00) <i>Required when total impact fee is less than \$50.00</i>	\$
	Administrative Fee:	\$

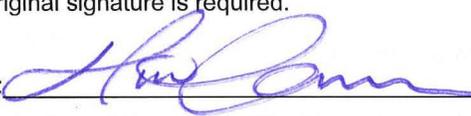
Make Checks Payable to: State of Vermont	Total Check Amount:	\$
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**Application for Authorization Under
the Vermont General Wetland Permit
and Determination Petition**

Under Sections 8 and 9
of the Vermont Wetland Rules



VERMONT DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
**WATERSHED
MANAGEMENT DIVISION**
WETLANDS PROGRAM

Applicant Information: <i>If the applicant is someone other than the landowner, the landowner information must be included below</i>			
Applicant Name: Vermont Gas Inc., Diana Camaiani representative			
Address: P.O. Box 467	City/Town: Burlington	State: VT	Zip: 05402-467
Phone Number: 802-951-0394	Email Address: dcamaiani@vermontgas.com		
Applicant Certification: By signing this application you are certifying that all of the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Applicant Signature: 			Date: 7/16/2016

Landowner Information: <i>Landowner must sign the application. If landowner is different from the applicant this section must be filled out</i>			
<input checked="" type="checkbox"/> Check this box if landowner is the same as the applicant			
Landowner Name:			
Address:	City/Town	State:	Zip:
Phone Number:	Email Address:		
Landowner Easement: <i>Attach copies of any easements, agreements, or other documents conveying permission, and agreement with the landowner stating who will be responsible for meeting the terms and conditions of the permit. List the attachment for this information in this section. Describe the nature of the agreement or easement in the space provided below:</i>			
No easement is necessary for the project as designed as it will be in the shoulder of Route 2/Williston Road. The pipeline will be placed 10 feet from an existing pipeline in the road shoulder due to safety protocols involving gas main piping.			
Landowner Certification: By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Landowner Signature: _____			Date: _____

Application Preparer Information: <i>Consultant, engineer, or other representative that is responsible for filling out the application, if other than the applicant or landowner.</i>			
Application Preparer Name: Patricia Greene-Swift, Gilman & Briggs Environmental			
Address: 1 Conti Circle	City/Town: Barre	State: VT	Zip: 05641
Phone Number: 802-479-7480	Email Address: gbenvironmental@earthlink.net		
Application Preparer Certification: By signing this application you are certifying that all of the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Application Preparer Signature: Patricia E. Greene-Swift		Digitally signed by Patricia E. Greene-Swift Date: 2016.04.05 12:24:40 -05'00'	Date: June 24, 2016

Handwritten signatures are also accepted.

<p>1. Location of wetland and project: <i>(Individual Permit Application [IPA] Section 1)</i> <i>Location description should include the road the wetland is located on, the compass direction of the wetland in relation to the road, 911 street address if available, and any other distinguishing features.</i></p>	
<p>2. Program Contact: <i>(IPA Section 2)</i> <i>Indicate here if you have been in contact with the Wetlands Program before the application submittal.</i></p>	
<p>2.1 Date of Interaction with State Wetland Ecologist</p>	<p>2.2. State Wetland Ecologist Name</p>

<p>3. Wetland Classification: <i>(IPA Section 3)</i></p>
<p>3.1. The wetland is a class II wetland because: <i>(IPA Section 3.1)</i></p>
<p>3.2. Section 4.6 Presumption <i>(IPA Section 3.2)</i> <i>If the wetland meets the Section 4.6 Presumption, it does so because:</i></p>

<p>4. Description of Entire Wetland: <i>(IPA Section 4)</i> <i>Answer the following questions regarding the entire wetland, which includes all wetland areas connected to the wetland area proposed for impact. Answers may be estimates based on desktop review when wetland extends past the investigation area (parcel boundary). Specific questions about the wetland in the project area will follow.</i></p>
<p>4.1. Size of Complex in Acres: <i>(IPA Section 4.1)</i> <i>The size of the complex can be obtained from the Wetland Inventory Map for mapped wetlands, or best estimation based on review of aerial photography or site visit. This is not the size of the of the delineated wetland on the subject property unless the entirety of the wetland is represented in the delineation.</i></p>
<p>4.2. Vegetation Cover Types Present: <i>(IPA Section 4.2)</i> <i>List all wetland types in the entire wetland and their percent cover.</i> For example: 50 acres of softwood forested swamp; or 30% scrub swamp, 70% emergent wetland</p>
<p>4.3. Pre-project Cumulative Impacts to the Wetland: <i>(IPA Section 4.7)</i> <i>Identify any cumulative ongoing impacts outside of the proposed project that may influence the wetland.</i> Examples include but are not limited to: Wetland encroachments on and off the subject property, land use management in or surrounding the wetland, or development that influences hydrology or water quality. List any past Vermont Wetland Permits or CUD's related to this property.</p>

<p>5. Context of Subject Wetland: <i>(IPA Section 5.1)</i> <i>Describe where the subject wetland is in the context of the larger wetland or wetland complex described above.</i> For example: Upslope/downslope, narrow eastern "finger", 400 ft. from open water portion.</p>

<p>6. Subject Wetland Vegetation: <i>(IPA Section 5.3)</i> <i>List dominant wetland vegetation cover type and associated dominant plant species. For example: emergent marsh with cattails; forested swamp dominated by red maple and yellow birch; shrub swamp dominated by speckled alder and peat moss; wet meadow dominated by reed canary grass.</i></p>

7. Buffer Zone: (IPA Section 5.6)
 Describe the buffer zone of the subject wetland

7.1 Buffer Land Use: (IP Section 5.6.1)
For example: Mowed shoulder, forested, old field, paved road, and residential lawns, etc.
 Describe any previous and ongoing disturbance in the buffer zone.

8. Wetland Function Summary: (IPA Section 6)
 Check which functions are present in the wetland complex

<input type="checkbox"/> Flood/Storm Storage	<input type="checkbox"/> RTE Species
<input type="checkbox"/> Surface & Groundwater Protection	<input type="checkbox"/> Education & Research
<input type="checkbox"/> Fish Habitat	<input type="checkbox"/> Recreation/Economic
<input type="checkbox"/> Wildlife Habitat	<input type="checkbox"/> Open Space/Aesthetics
<input type="checkbox"/> Exemplary Natural Community	<input type="checkbox"/> Erosion Control

9. Overall Project Description: (IPA Section 17)
9.1. Overall Project Purpose: (IPA Section 17.1)
 Description of the basic project.
For example: six-lot residential subdivision; expansion of an existing commercial building, building a single family residence.

10. Project Details: (IPA Section 18)
 Provide details regarding specific impacts to the wetland and buffer zone.

10.1. Specific Impacts to Wetland and Buffer Zone Dimensions: (IPA Section 18.1)
 List portions of the project that will specifically impact the wetland or buffer zone and their dimensions.
For example: driveway crossing with 16' wide fill, installation of buried sewer force main with 5' trench including fill footprint.

10.2. Bridges and Culverts: (IPA Section 18.2)
 Culvert circumference, length, placement and shapes, or bridge details. List any stream alteration permits that are required or obtained where perennial streams or rivers are involved.

11. Wetland and Buffer Zone Impacts: (IPA Section 19)

11.1. Wetland Impacts: (IPA Section 19.1)

Summarize the square footage of impact in the appropriate category. **Round to nearest square foot**

Permanent Wetland Fill	s.f.
Temporary Wetland Impact	s.f.
Other Permanent Wetland Impact <i>(this number includes clearing of woody vegetation, dredging, and does not include fill)</i>	s.f.
Total Wetland Impact:	s.f.

Describe in detail the proposed impact to wetlands

For example: Fill for road crossing, temporary impacts for trench and fill related to utility installation.

11.2. Buffer Zone Impacts: (IPA Section 19.2)

Summarize the square footage of impact in the appropriate category.

Temporary Buffer Impact	s.f.
Permanent Buffer Impact	s.f.
Total Buffer Impact:	s.f.

Describe in detail the proposed impact to buffer zones

For example: Addition of fill along roadway embankment extending into buffer zone.

11.3. Cumulative Impacts: (IPA Section 19.3)

List any potential cumulative or ongoing, direct and indirect impacts on the functions of the wetland.

For example: Increased noise from parking lot, vegetation management, inputs from stormwater pond outlet, reduction in flood storage volume from the addition of fill from the project.

<p>12. Mitigation Sequence: <i>(IPA Section 20)</i> <i>Please refer to Section 9.5b of the rules on Mitigation Sequencing for this section.</i></p>
<p>12.1. Avoidance of Wetland Impacts: <i>(IPA Section 20.1)</i></p>
<p>12.1.1. Can the activity be located on another site owned or controlled by the applicant, or reasonably available to satisfy the basic project purpose? If not, indicate why. Cite any alternative sites and explain why they were not chosen.</p>
<p>12.1.2. Can the proposed activity be practicably located outside the wetland/buffer zone? If not, indicate why. Explain the alternatives you have explored for avoiding the wetland and buffer onsite, And why they are not feasible.</p>
<p>12.2. Avoidance to the Impact to Functions and Values: <i>(IPA Section 20.2)</i></p>
<p>12.2.1. If the proposed activity cannot be practicably located outside the wetland/buffer zone, have all practicable measures been taken to avoid adverse impacts on protected functions?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>12.2.2. What design alternatives were examined to avoid impacts to wetland function? <i>For example: Use of matting, relocation of footprint, etc.</i></p>
<p>12.2.3. What steps have been taken to minimize the size and scope of the project to avoid impacts to wetland functions and values? Include information on project size reduction and relocation.</p>
<p>12.2.4. Explain how the proposed project represents the least impact alternative design. Explain why other alternatives, which you described above, were not chosen.</p>

13. Wetland Determination: (IP Section 21)
 If the application involves a wetland determination please answer the following.

- Wetland is mapped or contiguous to the Vermont Significant Wetland Inventory Map
- Wetland is not mapped on or contiguous to the Vermont Significant Wetland Inventory Map

13.1. Reason for Petition: (IP Section 21.1)
 Please choose one from the dropdown menu.

13.3. Determination Narrative: (IP Section 21.2)
 Please provide any narrative to support the petition for a wetland determination here, including previous decisions by the Secretary or Water Board. Determinations are made based on an evaluation of the functions and values present. Here add narrative description on the functions listed in section 8 of this application and described in section 5 of the Vermont Wetland Rules. **For example:** Wetland provides water storage and surface water protection because it is large in size, concave, and naturally vegetated.

14. Supporting Materials: (IP Section 22)
****ADDITIONAL MATERIALS REQUIRED TO CALL APPLICATION COMPLETE**

14.1. **Location Map: (IP Section 22.1)
 Provide a location map that is 8 1/2" x 11" and separate from any site plans.
 The Vermont Natural Resources Atlas is appropriate using USGS topography map base layer, roads, and VSWI wetlands.

Date	Title

14.2. **Site Plan(s): (IP Section 22.2)
 Please list by date, date of last revision, author, and title. Plans must include wetland delineation and buffer zones, limits of disturbance, erosion controls, building envelopes, and any permanent memorialization.

Title	Author	Date	Last Revision Date

14.3. Other Supporting Documents: (IP Section 22.5)
 Provide any other documentation that supports the application.
Examples include but are not limited to: Photographs, easements, agreements, restoration/plan, GIS shapefiles, additional ACOE forms.

Date	Last Revision	Author	Title

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Williston Rd/Rte 2 east of Industrial Ave. City/County: Chittenden Sampling Date: 3-30-2016
 Applicant/Owner: Vermont Gas, Inc./Town of Williston ROW State: VT Sampling Point: Upland A
 Investigator(s): Patricia Greene-Swift Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 5%
 Subregion (LRR or MLRA): LRR R Lat: 44.45669 Long: -73.12659 Datum: DD
 Soil Map Unit Name: Adams and Windsor sandy loam 12 to 30 percent slopes NWI classification: Non-hydric

Are climatic / hydrologic conditions on the site typical for this time of year? Yes Yes No _____ (If no, explain in Remarks.)
 Are Vegetation Yes, Soil Yes, or Hydrology Yes significantly disturbed? Are "Normal Circumstances" present? Yes _____ No No
 Are Vegetation Yes, Soil Yes, or Hydrology Yes naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>No</u> Hydric Soil Present? Yes _____ No <u>No</u> Wetland Hydrology Present? Yes _____ No <u>No</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>No</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Upland sample is Williston Road/Route 2, it is paved, has plants only on the road shoulder, and its hydrology is man-made.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <ul style="list-style-type: none"> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) 	Secondary Indicators (minimum of two required) <ul style="list-style-type: none"> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>No</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>No</u> Depth (inches): <u>N/A</u> Saturation Present? Yes _____ No <u>No</u> Depth (inches): <u>N/A</u> (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>No</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Hydrology is rainwater/stormwater flowing across pavement, which is an impervious surface.	

VEGETATION – Use scientific names of plants.

Sampling Point: Upland A

<u>Tree Stratum</u> (Plot size: <u>30' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Acer saccharum</u>	5%	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>12%</u> (A/B)	
2. <u>Quercus rubra</u>	2%	Yes	FACU		
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
<u>7%</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Rhus typhina</u>	10%	Yes	UPL		Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Lonicera tatarica</u>	2%	Yes	UPL		
3. <u>Ulmus americana</u>	2%	Yes	FACW		
4. _____					
5. _____					
6. _____					
7. _____					
<u>14%</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.	
<u>Herb Stratum</u> (Plot size: <u>5' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Plantago lanceolata</u>	5%	Yes	UPL		Hydrophytic Vegetation Present? Yes _____ No <u>No</u>
2. <u>Poa pratensis</u>	5%	Yes	FACU		
3. <u>Chichorium intybus</u>	2%	Yes	FACU		
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
<u>12%</u> = Total Cover					
<u>Woody Vine Stratum</u> (Plot size: <u>15' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____				Hydrophytic Vegetation Present? Yes _____ No <u>No</u>	
2. _____					
3. _____					
4. _____					
<u>0%</u> = Total Cover					

Remarks: (Include photo numbers here or on a separate sheet.)

Most of the upland plot is asphalt, and no plant were present on the asphalt.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Williston Rd/Rte 2 east of Industrial Ave. City/County: Williston/Chittenden Sampling Date: 3-30-2016
 Applicant/Owner: Vermont Gas/Town of Williston State: VT Sampling Point: Wetland A
 Investigator(s): Patricia Greene-Swift Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Basin on terrace Local relief (concave, convex, none): Concave Slope (%): 5%
 Subregion (LRR or MLRA): LRR R Lat: 44.45685 Long: -73.12681 Datum: DD
 Soil Map Unit Name: Scarboro loam NWI classification: Hydric

Are climatic / hydrologic conditions on the site typical for this time of year? Yes Yes No _____ (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes Yes No _____
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>Yes</u> No _____ Hydric Soil Present? Yes <u>Yes</u> No _____ Wetland Hydrology Present? Yes <u>Yes</u> No _____	Is the Sampled Area within a Wetland? Yes <u>Yes</u> No _____ If yes, optional Wetland Site ID: <u>Plot near flag A-7</u>
Remarks: (Explain alternative procedures here or in a separate report.) The wetland has had previous disturbance, including Route 2/Williston Road, Munson's access drive to its sand pit.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) _____ Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) <input checked="" type="checkbox"/> Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) _____ Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
---	---

Field Observations: Surface Water Present? Yes <u>Yes</u> No _____ Depth (inches): <u>2 inches +</u> Water Table Present? Yes <u>Yes</u> No _____ Depth (inches): <u>At surface</u> Saturation Present? Yes <u>Yes</u> No _____ Depth (inches): <u>At surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>Yes</u> No _____
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

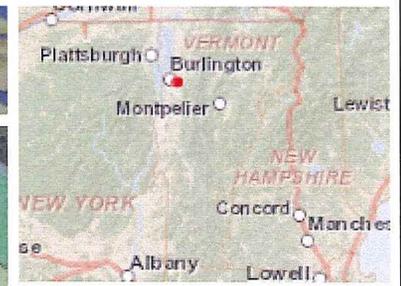
Remarks:
 The soil, being adjacent to the road has broken glass and garbage mixed into it in the top layers. Be careful if you plan to dig in this area!

VEGETATION – Use scientific names of plants.

Sampling Point: Wetland A

<u>Tree Stratum</u> (Plot size: <u>30' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	<u>0%</u> = Total Cover			Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	<u>0%</u> = Total Cover			Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
<u>Herb Stratum</u> (Plot size: <u>5' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Phragmites australis</u>	<u>80%</u>	<u>Yes</u>	<u>OBL</u>		
2. <u>Typha latifolia</u>	<u>15%</u>	<u>No</u>	<u>OBL</u>		
3. <u>Plantago lanceolata</u>	<u>1%</u>	<u>No</u>	<u>UPL</u>		
4. <u>Rubus idaeus</u>	<u>1%</u>	<u>No</u>	<u>FAC</u>		
5. <u>Onoclea sensibilis</u>	<u>1%</u>	<u>No</u>	<u>FACW</u>		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	<u>98%</u> = Total Cover			Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.	
<u>Woody Vine Stratum</u> (Plot size: <u>10' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
	<u>0%</u> = Total Cover			Hydrophytic Vegetation Present? Yes <u>Yes</u> No _____	

Remarks: (Include photo numbers here or on a separate sheet.)
 Plant community is significantly disturbed, and there is roadside garbage throughout near Route 2/Williston Road.



LEGEND

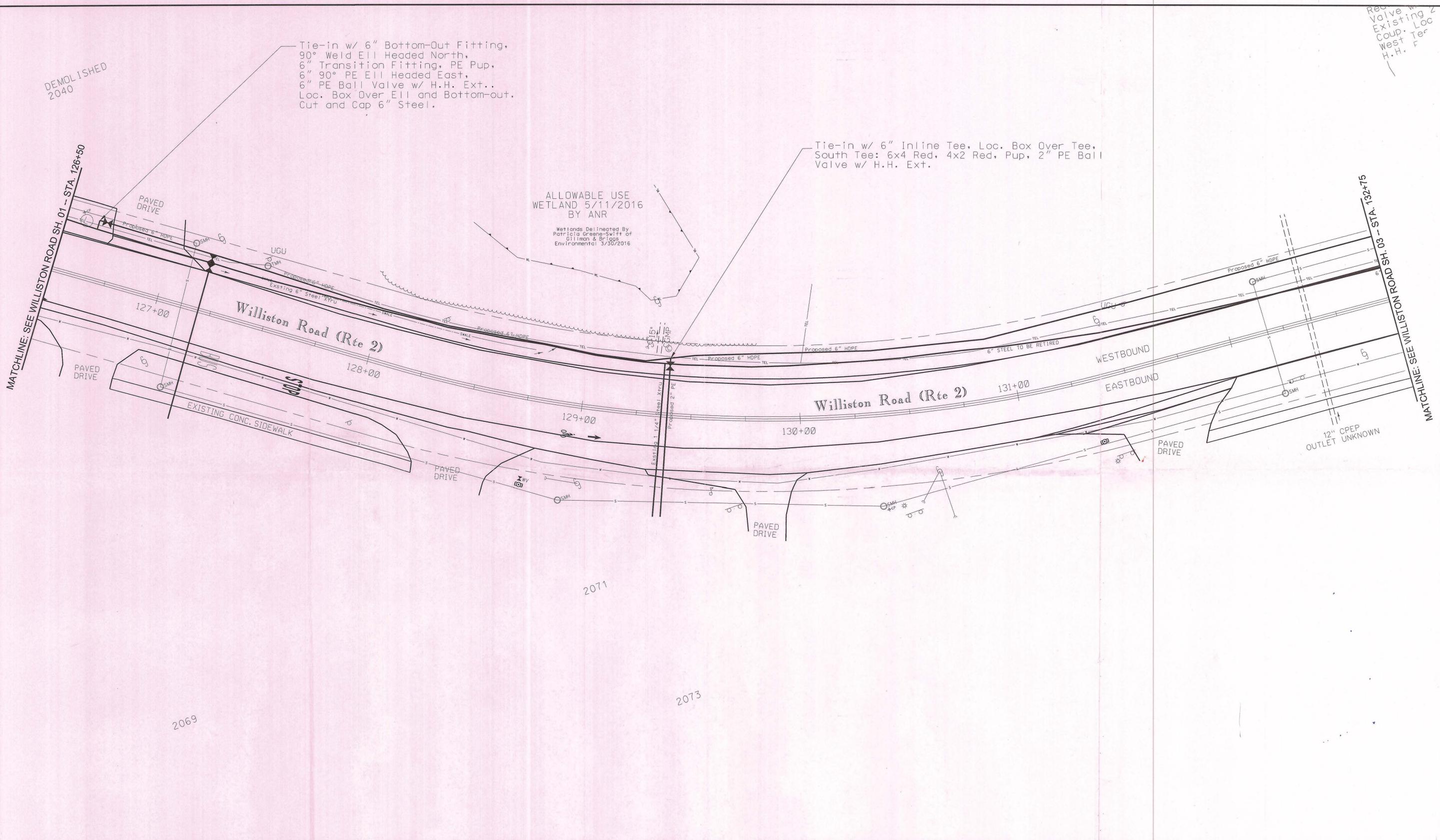
- ★ Wetland Projects
- ◉ Wetland
- Wetland Inquiry
 - ◉ OTHER
 - ◉ Allowed Use
 - ◉ Violation
 - ◉ Wetland Inquiry
- Rare Threatened Endangered
 - ◻ Threatened or Endangered
 - ◻ Rare
- ◻ Significant Natural Community
- Uncommon Species and Other
 - ◻ Animal
 - ◻ Plant
 - ◻ Natural Community
- ◻ Vernal Pools Confirmed – AE/AI
- ◻ Vernal Pools Unconfirmed – AI
- VT List of Priority Rivers and S
 - Part B (impaired TMDL not require)
 - Part C (stressed needs more asses)
 - Part D (impaired with approved TMI)
 - Part E (altered exotic species)
 - Part F (altered flow regulation)
 - Part G (channel alteration)
- VT List of Priority Lakes and P
 - Part B (impaired TMDL not require)
 - Part C (stressed needs more asses)
 - Part D (impaired with approved TMI)
 - Part E (altered exotic species)

1: 12,639
March 15, 2016

642.0 0 321.00 642.0 Meters
WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 1053 Ft. 1cm = 126 Meters
© Vermont Agency of Natural Resources THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

IMPORTANT! The Wetlands Viewer is designed to help the public research wetland locations and features. Only a qualified wetland scientist may determine the absence or presence of a wetland and the boundaries. Not all wetlands are mapped. Wetlands not mapped on the Vermont Significant Wetland Inventory may still be considered significant.



DEMOLISHED
2040

Tie-in w/ 6" Bottom-Out Fitting,
90° Weld Ell Headed North,
6" Transition Fitting, PE Pup,
6" 90° PE Ell Headed East,
6" PE Ball Valve w/ H.H. Ext.,
Loc. Box Over Ell and Bottom-out,
Cut and Cap 6" Steel.

Tie-in w/ 6" Inline Tee, Loc. Box Over Tee,
South Tee: 6x4 Red, 4x2 Red, Pup, 2" PE Ball
Valve w/ H.H. Ext.

ALLOWABLE USE
WETLAND 5/11/2016
BY ANR

Wetlands Delineated By
Patricia Greene-Swift of
Gillman & Briggs
Environmental 3/30/2016

Red Valve w/
Existing Loc
Coupl. West Ter
H.H.

MATCHLINE: SEE WILLISTON ROAD SH. 01 -- STA. 126+50

MATCHLINE: SEE WILLISTON ROAD SH. 03 -- STA. 132+75

127+00

128+00

129+00

130+00

131+00

Williston Road (Rte 2)

Williston Road (Rte 2)

WESTBOUND
EASTBOUND

EXISTING CONC. SIDEWALK

12" CPEP
OUTLET UNKNOWN

2069

2071

2073

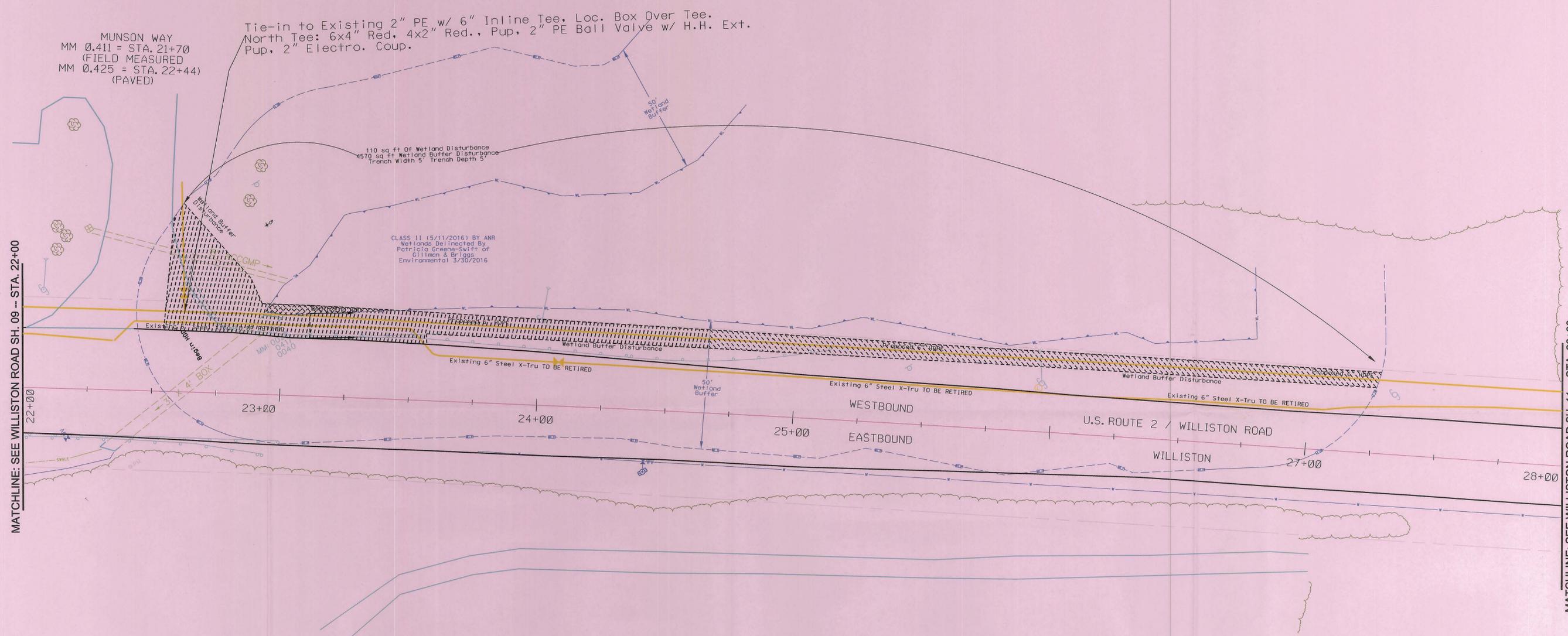
SURVEYED BY:	REVISIONS	INITIALS	DATE	ADDITIONAL NOTES	INITIALS	DATE
DATE:	WETLANDS SURVEY ADDED	M.A.L.	03/31/2016	ADDED 50' WETLAND BUFFER & PROPOSED DISTURBANCE	M.P.G	04/12/2016
DRAWING BY:						
DATE:						
DESIGNED BY:						
DATE:						
AS-BUILT BY:						
DATE:						

NOTE: LOCATIONS OF FACILITIES ARE
APPROXIMATE AND MAY VARY, ALWAYS
CALL DIG SAFE BEFORE BEGINNING
EXCAVATION ACTIVITIES @ 811

DRAWING SCALE:
1" = 20'
PROOF LINE
ONE INCH
DRAWING SCALE CHECK
SCALE ACCURATE WHEN PROOF
LINE MEASURES ONE INCH



SOUTH BURLINGTON, VERMONT
WILLISTON ROAD
SHEET 02
MEDIUM PRESSURE NATURAL GAS PIPELINE



MATCHLINE: SEE WILLISTON ROAD SH. 09 -- STA. 22+00

MATCHLINE: SEE WILLISTON ROAD SH. 11 -- STA. 28+00

MUNSON WAY
 MM 0.411 = STA. 21+70
 (FIELD MEASURED)
 MM 0.425 = STA. 22+44
 (PAVED)

Tie-in to Existing 2" PE w/ 6" Inline Tee, Loc. Box Over Tee.
 North Tee: 6x4" Red., 4x2" Red., Pup, 2" PE Ball Valve w/ H.H. Ext.
 Pup, 2" Electro. Coup.

110 sq ft of Wetland Disturbance
 4570 sq ft Wetland Buffer Disturbance
 Trench Width 5' Trench Depth 5'

CLASS II (5/11/2016) BY ANR
 Wetlands Delimited By
 Patricia Greene-Swift of
 Gillman & Briggs
 Environmental 3/30/2016

Existing 6" Steel X-Tru TO BE RETIRED

Existing 6" Steel X-Tru TO BE RETIRED

Existing 6" Steel X-Tru TO BE RETIRED

WESTBOUND
 EASTBOUND

U.S. ROUTE 2 / WILLISTON ROAD
 WILLISTON

SURVEYED BY:	
DATE:	
DRAWING BY:	
DATE:	
DESIGNED BY:	
DATE:	
AS-BUILT BY:	
DATE:	

REVISIONS	INITIALS	DATE	ADDITIONAL NOTES	INITIALS	DATE
WETLANDS SURVEY ADDED	M.A.L.	03/31/2016	ADDED 50' WETLAND BUFFER & PROPOSED DISTURBANCE	M.P.G	04/12/2016

NOTE: LOCATIONS OF FACILITIES ARE APPROXIMATE AND MAY VARY, ALWAYS CALL DIG SAFE BEFORE BEGINNING EXCAVATION ACTIVITIES @ 811

DRAWING SCALE:
1" = 20'
 PROOF LINE ONE INCH
 DRAWING SCALE CHECK
 SCALE ACCURATE WHEN PROOF LINE MEASURES ONE INCH

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SOUTH BURLINGTON, VERMONT
WILLISTON ROAD
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