

LEGEND

- Wetlands - VSWI
 - Class 1 Wetland
 - Class 2 Wetland
- Stream
- Town Boundary

1: 11,183
June 30, 2015

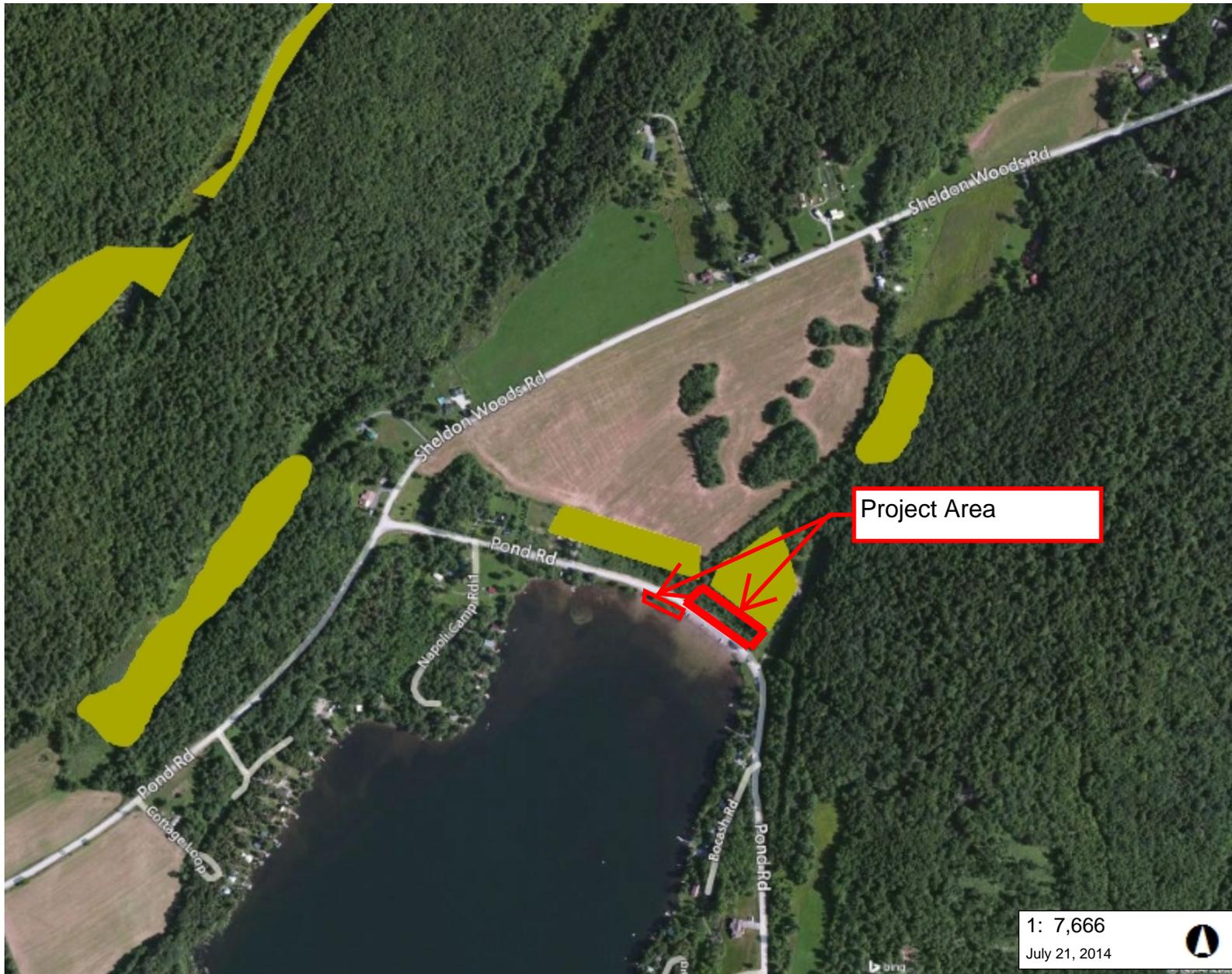
NOTES

Map created using ANR's Natural Resources Atlas; Location Map

568.0 0 284.00 568.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 932 Ft. 1cm = 112 Meters
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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.



1: 7,666
July 21, 2014



LEGEND

- Rare Threatened Endangered
 - Threatened or Endangered
 - Rare
- Significant Natural Community
- Uncommon Species and Other
 - Animal
 - Plant
 - Natural Community
- Deer Wintering Areas
- Natural Communities
 - Acidic Riverside Outcrop
 - Alder Swamp
 - Alluvial Shrub Swamp
 - Alpine Meadow
 - Alpine Peatland
 - Beaver Wetland (Non-NC)
 - Black Spruce Swamp
 - Black Spruce Woodland Bog
 - Boreal Acidic Cliff
 - Boreal Calcareous Cliff
 - Boreal Outcrop
 - Boreal Talus Woodland
 - Buttonbush Swamp
 - Calcareous Red Maple-Tamarack S
 - Calcareous Riverside Outcrop
 - Calcareous Riverside Seep
 - Cattail Marsh
 - Cold Air Take Woodland

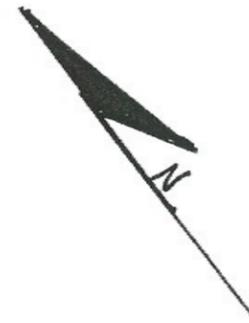
NOTES

Map created using ANR's Natural Resources Atlas

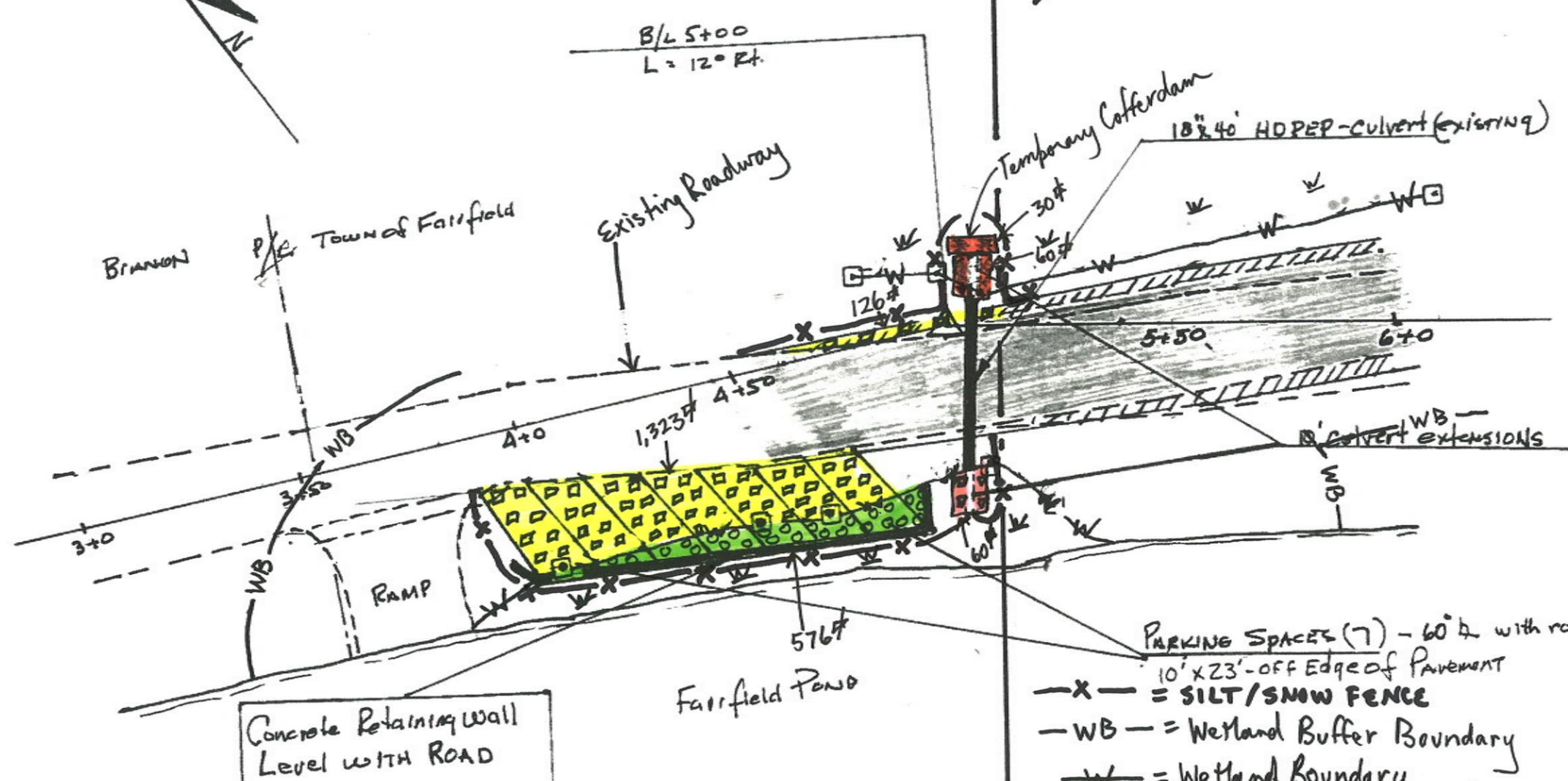
389.0 0 194.00 389.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 639 Ft. 1cm = 77 Meters
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→ MATCH TO SHEET 2



LEGEND

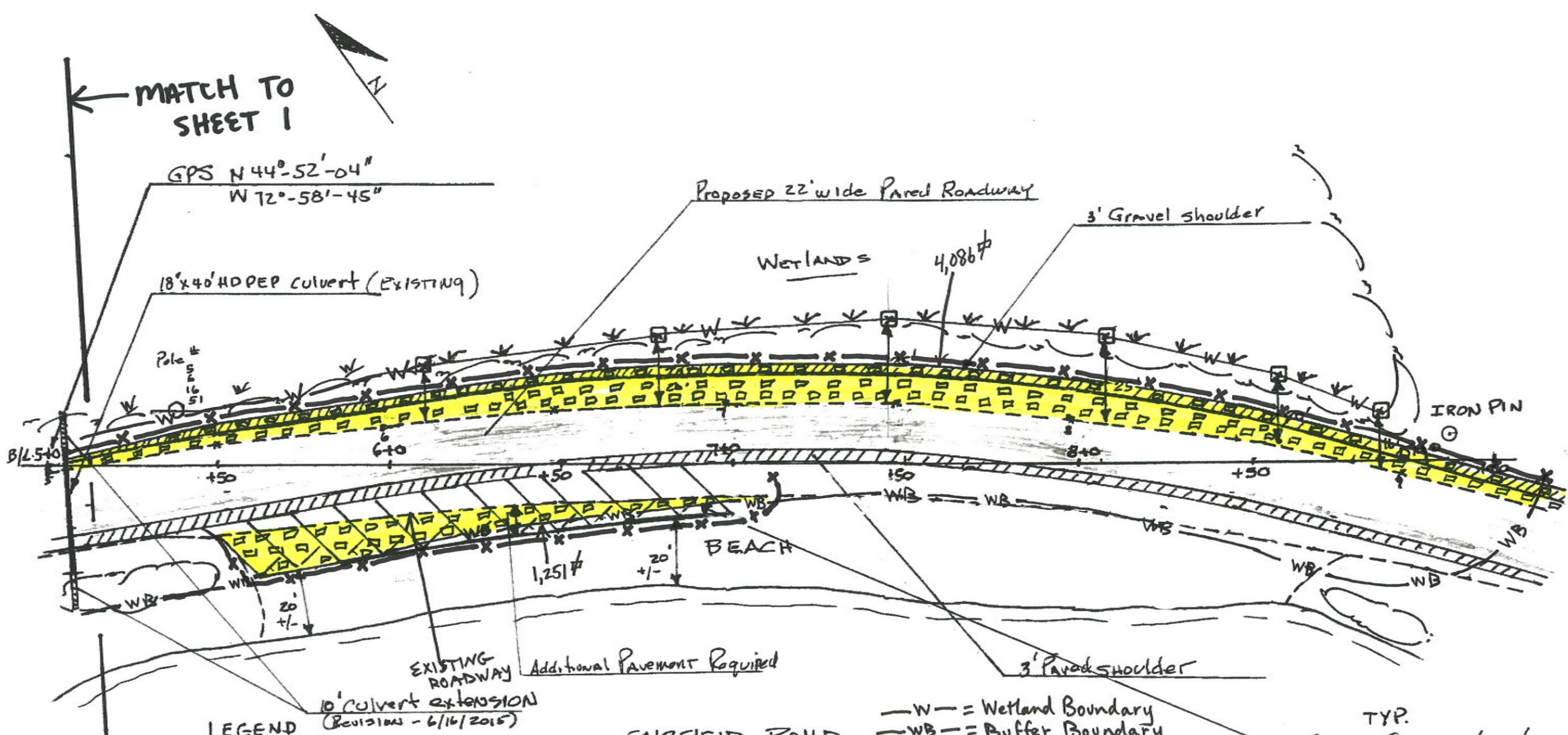
- = Edge of Paved Road (Existing)
 - ⊠ = Wetland Delineation Stake
 - ⊙ = Property Line Marker
 - = Brush Line
 - ⊕ = Utility Pole
 - ==== = Edge of Water - 11-20-2013
 - ∨ = Wetland Boundary
- Scale = 1" = 30'

- ▬ = Relocated Road Paved Surface
- ▨ = 3' Gravel Shoulder Lt. - Paved Shoulder Rt. (Adduct - 6-2-2015)

- X- = SILT/SNOW FENCE
 - WB- = Wetland Buffer Boundary
 - W- = Wetland Boundary
 - *** = Wetland Impact (Temporary)
 - ooo = Wetland Impact (Permanent)
 - = Buffer Impact (Permanent)
 - ▽▽▽ = Buffer Impact (Temporary)
- Parking Spaces (7) - 60' x with road
10' x 23' - off Edge of Pavement

Page 1

TOWN OF FAIRFIELD		SHEET 1	
Pond Rd. Fairfield Pond Proposed Parking Area			
Plan View			
Preliminary	X		
Final			
Surveyed	11/20/2013	Relocation of Ramp	Revisions 6/2/2015
Plotted	11/21/2013	Parking S. Side of Rd.	6/2/2015
Checked	11/21/2013	Culvert Extensions	6/16/2015
		ADDED PG 1	6/24/2015
Scale = 1" = 30'		JS - Smith Technical Services	



← MATCH TO SHEET 1

GPS N 44°-52'-04"
W 72°-58'-45"

18'x40' HDPEP CULVERT (EXISTING)

Proposed 22' wide Paved Roadway

3' Gravel shoulder

WETLANDS

4,086#

IRON PIN

BEACH

Additional Pavement Required

3' Paved shoulder

LEGEND

10' culvert extension
(Revision - 6/16/2015)

FAIRFIELD POND

—W— = Wetland Boundary
 —WB— = Buffer Boundary
 ■■■ = Buffer Impact (permanent)
 —X— = SILT/SNOW FENCE

TYP.
 PARKING SPACE 10'x20'
 w/ Precast concrete Bumper

- = Edge of Paved Road (Existing)
 - ⊗ = Wetland Delineation STAKE
 - ⊙ = Property LINE MARKER
 - ~ ~ ~ = BRUSH LINE
 - ⊕ = Utility Pole
 - — — = Edge of WATER - 11-20-2013
 - ∨ = WETLAND BOUNDRY
- Scale = 1" = 30'

- ▭ = Relocated ROAD Paved SURFACE
 - ▨ = 3' Gravel SHOULDER Lt. - PAVED SHOULDER Rt.
- (Adduct - 6-2-2015)

TOWN OF FAIRFIELD		SHEET 2	
Pond Rd.			
Fairfield Pond Proposed Parking Area			
Plan View			
Preliminary	X		
Final			
		Relocatin of Road	Revisions 6/30/15
Surveyed	11/20/2013	Parking S. Side of Rd.	6/2/2015
Plotted	11/21/2013	Culvert extension	6/16/2015
Checked	11/21/2013		
Scale = 1" = 30'		JS - Smith Technical Services	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Fairfield Pond Road at Town Beach City/County: Fairfield Sampling Date: 06.19.15
 Applicant/Owner: Town of Fairfield State: VT Sampling Point: B1
 Investigator(s): Charlotte Brodie Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None
 Slope (%): 2 Lat: 44 52' 4" Long: 72 58' 47" Datum: _____
 Soil Map Unit Name: _____ NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ 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 <input checked="" type="checkbox"/>	No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>Wetland Area B</u>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No _____	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No _____	
Remarks: (Explain alternative procedures here or in a separate report.)			

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
<u>Primary Indicators (minimum of one is required; check all that apply)</u>			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Water Table Present?	Yes <input checked="" type="checkbox"/> No _____	Depth (inches): <u>8"</u>	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No _____	Depth (inches): <u>surface</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION – Use scientific names of plants.

Sampling Point: B1

<u>Tree Stratum</u> (Plot size: <u>30' r</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
				_____ = Total Cover
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15' r</u>)				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
				_____ = Total Cover
<u>Herb Stratum</u> (Plot size: <u>5' r</u>)				
1. <u>Carex cf crinita</u>	<u>38</u>		<u>OBL</u>	
2. <u>Carex cf gynandra</u>	<u>38</u>		<u>OBL</u>	
3. <u>Solidago canadensis</u>	<u>20</u>		<u>FACU</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
				<u>96</u> = Total Cover
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____				
2. _____				
3. _____				
4. _____				
				_____ = Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B)

Prevalence Index worksheet:

<u>Total % Cover of:</u>	<u>Multiply by:</u>
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 = _____	

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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 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.

Hydrophytic Vegetation Present? Yes No _____

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

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Fairfield Pond Road at Town Beach City/County: Fairfield Sampling Date: 06.19.15
 Applicant/Owner: Town of Fairfield State: VT Sampling Point: B2
 Investigator(s): Charlotte Brodie Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None
 Slope (%): 2 Lat: 44 52' 4" Long: 72 58' 47" Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ 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 <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Water-Stained Leaves (B9) ___ High Water Table (A2) ___ Aquatic Fauna (B13) ___ Saturation (A3) ___ Marl Deposits (B15) ___ Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) ___ 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) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks) ___ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: B2

<u>Tree Stratum</u> (Plot size: <u>30' r</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
				_____ = Total Cover
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15' r</u>)				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
				_____ = Total Cover
<u>Herb Stratum</u> (Plot size: <u>5' r</u>)				
1. <u>Poa compressa</u>	<u>83</u>	<u>x</u>	<u>FACU</u>	
2. <u>Asclepias syriaca</u>	<u>10</u>		<u>UPL</u>	
3. <u>Taraxacum officinale</u>	<u>10</u>		<u>FACU</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
				<u>103</u> = Total Cover
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____				
2. _____				
3. _____				
4. _____				
				_____ = Total Cover
Remarks: (Include photo numbers here or on a separate sheet.)				

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</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>0</u> (A/B)
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 = _____	
Hydrophytic Vegetation Indicators:	
<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
<input type="checkbox"/> Dominance Test is >50%	
<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
<input type="checkbox"/> 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.	
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 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.	
Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	



Wetland and Buffer, South Side



Culvert Outlet, South Side



Culvert Inlet and Wetland, North Side