

MassDOT
DISTRICT
1

YEARLY OPERATIONAL PLAN

2015

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PROGRAM PURPOSE

In general, the purpose of the MassDOT Vegetation Management Program is to implement an Integrated Vegetation Management plan that eliminates problem vegetation under guardrail, along barriers, cracks and curbing, bridge abutments, sign supports, and other highway appurtenances to allow for safe access and visibility for pedestrians, traffic, and MassDOT workers as well as to preserve the integrity of the roadway. The goal is to choose the appropriate control techniques for the targeted vegetation while keeping herbicide use to a minimum.

MassDOT Highway Division intends to file this Yearly Operational Plan for District 1 under the Massachusetts Highway Department 2012-2016 Vegetation Management Plan.

This Yearly Operational Plan for MassDOT roadways in District 1 will be for the treatment of problematic vegetation along I-90 in locations shown on the maps.

Individual Supervising the Yearly Operational Plan (YOP)

The individual supervising the implementation and conditions of the YOP is:

Name and Title George Batchelor, Supervisor of Landscape Design
Department **MassDOT**, Highway Division
Address 10 Park Plaza, Boston, MA 02116
Phone Number (857) 368-9180

Contractor/Personnel Performing the Herbicide Treatments

As required by law, applicators to roadside rights-of-way must hold a valid license from the Massachusetts Department of Agricultural Resources.

Northern Tree Service

Philip Cambo
P.O. Box 790
Palmer, MA 01069
Phone: 800-232-6132

Vegetation Control Services, Inc.

Harry Williston
2342 Main Street
Athol, MA 01331
Phone: 800-323-7706

D'Angelo Brothers

Paul Capachione
100 N. Conahan Drive
Hazelton, PA 18209
Phone: 207-322-3350

Mayer Tree Service

Dan McCarthy
9 Scots Way
Essex, MA 01929
Phone: 978- 500-1297

METHODS

Target Vegetation

In general, as defined in the MassDOT 2012-2016 Vegetation Management Plan, target vegetation along roadways falls into one or more of the following categories: Hazard Vegetation, Detrimental Vegetation, Nuisance Vegetation, and Invasive Vegetation. Such vegetation may include herbaceous species, shrubs, vines, and trees. With the exception of spraying vegetation on or along guardrail, median, curb, or other structures in locations shown in the 2015 YOP Maps, all vegetation management on MassDOT roads will be by mechanical methods.

Mechanical Vegetation Management Techniques

Most of MassDOT's vegetation management is by mechanical methods, and these include mowing and line trimming of herbaceous material, tree trimming and removals, and brush cutting.

Herbicide Application Methods

MassDOT will primarily utilize foliar spray for all guardrail, curb and barrier treatment. Cut stem/stump methods may be used for instances where selective treatment is desired, such as to treat re-sprouting trees, shrubs or vines. Selective treatment is more effective, is a reduced volume of herbicide and protects adjacent desirable vegetation.

Foliar treatments involve the selective application of approved herbicides and adjuvants diluted in water, to the foliage and stems of the target vegetation. Low-pressure nozzles will be used to produce the largest possible droplet size and a drift control agent shall be added at the rate recommended on the label to keep spray drift to an absolute minimum. The herbicide solution is applied to lightly wet the target plant.

Cut stump or cut stem treatment shall be with a portable pressurized canister or manually painted on the freshly cut surface of the remaining stump.

Foliar applications will take place when plants are in full leaf and actively growing and in accordance with the manufacturer's recommendations.

MassDOT will use only those chemicals listed within the Sensitive Areas Materials List, with the Use Restrictions shown for Sensitive Areas, and with the label restrictions for all other areas.

Rights-of-Way Sensitive Area Materials

The Massachusetts Department of Agricultural Resources (Pesticide Bureau) approves materials for use within Sensitive Areas within rights-of-ways. These materials are listed in Appendix B. Materials to be used for MassDOT application are listed in Table 1-5.

Tables 1-4- Materials and Rates of Application

Table 1 - Tank Mix for Curb, Cracks, Guardrails, Median Treatments (General Weed Control)			
Herbicides & Adjuvants	Active Ingredient	EPA Registration Numbers	Mix Concentration (per 100 gals. Water)
Rodeo	Glyphosate	62719-324	2-5%
Oust Extra	Sulfometuron Methyl and Metsulfuron-Methyl	352-622	10 oz (applied at a volume of 15-30 gals per acre)
Induce, Clean Cut, or equivalent surfactant			0.125% - 1%
Point Blank, Stay Put Plus or equivalent drift retardant			4-16 oz.

Table 2 - Tank Mix for Poison Ivy, Noxious and Invasive Species			
Herbicides & Adjuvants	Active Ingredient	EPA Registration Numbers	Mix Concentration (per 100 gals. Water)
Rodeo	Glyphosate	62719-324	2-5%
Escort XP	Metsulfuron-Methyl	352-439	1.25-4oz
Induce, Clean Cut, or equivalent surfactant			0.125% - 1%
Point Blank, Stay Put Plus or equivalent drift retardant			4-16 oz.

Table 3 - Tank Mix for Poison Ivy			
Herbicides & Adjuvants	Active Ingredient	EPA Registration Numbers	Mix Concentration (per 100 gals. Water)
Garlon 4 Ultra	Triclopyr	62719-527	2-4%
Induce, Clean Cut, or equivalent surfactant			0.125% - 1%
Point Blank, Stay Put Plus or equivalent drift retardant			4-16 oz.

Table 4 - Tank Mix for Low Volume Foliage Applications (mixed in water)			
Herbicides & Adjuvants	Active Ingredient	EPA Registration Numbers	Mix Concentration (per 100 gals. Water)
Rodeo	Glyphosate	62719-324	3-5%
Krenite	Fosamine	42750-247	6-10%
Escort XP	Metsulfuron-Methyl	352-439	1.25-4oz
Arsenal Powerline	Imazapyr	241-431	0.125%-.5%
Induce, Clean Cut, or equivalent surfactant			0.125% - 1%
Point Blank, Stay Put Plus or equivalent drift retardant			6-64 oz.

Table 5- Tank Mixes for Cut Surface Treatment Applications			
Herbicides & Adjuvants	Active Ingredient	EPA Registration Numbers	Mix Concentration (per 100 gals. Water)
Rodeo	Glyphosate	62719-324	40-50%
Arsenal Powerline	Imazapyr	241-431	3%-5% (mixed with Accord Concentrate)
Carriers: Water or Windshield Washing Fluid			0.125% - 1%

Sensitive Areas

Methods used to Delineate Sensitive Areas

Sensitive Areas are areas within rights-of-way in which public health, environmental or agricultural concerns warrant special protection to further minimize risks of unreasonable adverse effects. These areas shall be delineated.

Sensitive areas are separated into two categories: areas that are visible and therefore readily identifiable in the field, and areas that are not visible and therefore not readily identifiable in the field.

Sensitive Areas that are visibly identifiable in the field include surface waters, wetlands, rivers, and agricultural and inhabited areas. Sensitive areas that are not readily identifiable in the field include public groundwater supplies, public surface water supplies, and private water supplies. These locations are derived from MassGIS data provided by the Department of Environmental Protection, Fish and Wildlife, and other state agencies and are shown on the maps.

Steel reflective delineators shall be bolted to the guardrail beam face to mark locations.

For guardrail, curb and barrier spray, the following field markers shall be used in District 1:

NO-SPRAY limits shall be indicated using RED flags attached to the guardrail at the beginning of the limits.

SPRAY limits shall be indicated using GREEN flags attached to the guardrail at the beginning of the limits.

Table 5 - Sensitive Area Restriction Guide (333 CMR 11.04)

SENSITIVE AREA	NO-SPRAY AREA	LIMITED USE AREA	WHERE IDENTIFIED
Wetlands and Water over Wetlands	Within 10 feet.	10 - 100 feet: 12 months must elapse between applications and herbicides are applied selectively by low pressure foliar techniques or by cut-stump applications.	YOP Maps and identify on site
Certified Vernal Pool	Within 10 feet.	10 feet to the outer boundary of any Certified Vernal Pool Habitat; 12 months must elapse between application; Selective low pressure, using foliar techniques or basal or cut-stump applications.	YOP Maps and identify on site
Public Ground Water Supply	Within 400 feet (Zone I)	Zone II or IWPA (Primary Recharge Area): 24 months must elapse between applications; applications shall be selective low pressure foliar techniques, basal or cut-stump.	YOP Maps and identify on site
Riverfront Areas	Within 10 feet from mean annual high water line.	10 feet from the mean annual high water line and the outer boundary of the Riverfront Area: 12 months must elapse between applications; applications shall be selective low pressure foliar, basal or cut- stump.	YOP Maps and Identify on site
Agricultural & Inhabited Areas	N/A	0 - 100 feet: 12 months must elapse between application; application shall be selective low pressure foliar, basal or cut-stump.	Identify on site.
State Listed Species Habitat	No application within habitat area except in accordance with a Yearly Operational Plan approved in writing by the Massachusetts Department of Fish and Game.		YOP Maps
Private Water Supply	Within 50 feet	50 – 100 feet 24 months must elapse between applications; applications shall be selective low pressure foliar techniques, basal or cut- stump.	In YOP & well list and identify on site.
Public Surface Water Supply	Within 100 feet of any Class A public surface water source.	100 feet to the outer boundary of the Zone A; 24 months must elapse between applications; applications shall be selective low pressure foliar techniques, basal or cut-stump.	YOP Maps
	Within 10 feet of any tributary or associated surface water body located outside of the Zone A	10 feet to the outer boundary of the Zone A; 24 months must elapse between applications; applications shall be selective low pressure foliar techniques, basal or cut- stump.	YOP Maps
	Within 10 feet of any tributary or associated surface water body located outside of the Zone A	10 feet to the outer boundary of the Zone A; 24 months must elapse between applications; applications shall be selective low pressure foliar techniques, basal or cut- stump.	YOP Maps

Herbicide Handling, Mixing and Loading Procedures

All mixing and loading of herbicides will occur at the storage facility in amounts of herbicide necessary to carry out that day's work. This will minimize waste and the need of excess handling. The spray vehicle will be equipped with a clipboard log of the herbicides on board, a bag of adsorbent, activated charcoal, plastic bats, a broom and a shovel in case of a minor spill.

Major Spills and Related Accidents - For the purpose of this VMP, major spills involve reportable quantities of hazardous materials as defined by the Department of Environmental Protection (DEP) 320 CMR 40.000. Related accidents include fire, poisoning and automobile accidents.

- a) Administer proper first aid and call an ambulance and/or Massachusetts Poison Information Center in cases involving injury due to poisoning.
- b) Call the police and/or fire department in cases involving automobile accidents or fire. c) If possible, control the spill by stopping the leak or source of spill.
- d) Confine the spread of liquids with a dike composed of soil or other absorptive materials.
- e) Call ChemTrec, Massachusetts Pesticide Bureau or chemical manufacturer for assistance (see phone listing below) if unable to handle the spill or the material is unfamiliar.
- f) Notify the DEP if water bodies are contaminated, and for releases or threatened releases of reportable quantities of hazardous material.
- g) Notify the District Hazardous Material Coordinator. h) Clean up spill:
 - 1) If the spill occurs in a public location, isolate the spill areas and deny unauthorized entry until cleanup is complete.
 - 2) Absorb spilled liquids with sand, absorptive clay, spill control gel, vermiculite, pet litter, sawdust or other absorptive material. Wear proper protective clothing and equipment.
 - 3) Sweep or shovel contaminated absorbent into a leak proof, sealable container for proper disposal.
 - 4) Dry herbicides, such as dust, granular and pellets can be directly swept or shoveled into leak proof sealable containers without absorptive materials.
 - 5) Neutralize contaminated area with hydrated lime, sodium hypochlorite (bleach), or soapy water. Never mix bleach and ammonia base products or a poisonous gas will result.
 - 6) Dispose of contaminated material at an approved location.

Emergency Information and Points of Contact

In the event of a spill or emergency, information on safety precautions and clean up procedures may be gathered from the following sources:

Herbicide Label	Container
Herbicide Fact Sheets	Appendix D
Herbicide Manufacturers:	
Dow Agro Sciences-----	(517) 636 4400
EI DuPont-----	(800) 441-3637
Monsanto-----	(314) 694-4000
BASF-----	(800) 832-4357
NuFarm USA.....	(630) 455-2000
MA Department of Agricultural Resources (DAR)	(617) 626-1700
MA Department of Environmental Protection (DEP) Incident Response Unit	1-888-304-1133
MA Department of Environmental Protection – Western Regional Office	(413) 784-1100
ChemTrec	(800) 424-9300
MA Poison Control Center	(800) 682-9211
Environmental Protection Agency Pesticide Hotline	(800) 858-7378
MA Department of Public Health, Bureau of Environmental Health, Environmental Toxicology Program	(617) 624-5757
Massachusetts Department of Transportation	
Boston Headquarters	(617) 973-7500
District 1 Headquarters (Lenox)	(413) 637-5700
District 2 Headquarters (Northampton)	(413) 582-0599
District 3 Headquarters (Worcester)	(508) 929-3800
District 4 Headquarters (Arlington)	(781) 641-8300
District 5 Headquarters (Taunton)	(508) 824-6633

SCOPE OF WORK

The proposed work for State FY 2015 involves the application of herbicides to control target vegetation along state highways in accordance with the Rights of Way Management regulations (333 CMR 11.00) and the MassDOT District 1 2012-2016 Vegetation Management Plan (VMP). Target vegetation along shall include vegetation affecting roadway structures, particularly guardrail, barriers and curbs, as well as invasive vegetation at selected locations.

MassDOT will treat vegetation detrimental to guardrail, barriers and curbs along I-90 as shown in the maps.

Below is the list of the towns in which spraying will occur in District 1 for 2015.

Maps are shown in Appendices A.

Route	Municipalities	Target Vegetation
DISTRICT 1		
I-90	West Stockbridge, Stockbridge, Lee, Becket, Otis, Blandford, Russell	Guardrail/Barrier/Curb

APPENDIX A – ENVIRONMENTAL MONITOR NOTICE

APPENDIX B – SENSITIVE MATERIALS LIST
&
LINKS TO MDAR WEBSITE & LABELS

Rights of Way Sensitive Area Materials List

Active Ingredient Use Restrictions	Product Names (EPA #) Registrant	
Glyphosate Lowest Labeled Rate for all Glyphosate products	Round Up Pro (524-475) Monsanto	Glypro-Plus (62719-322) Accord Concentrate or Rodeo (62719-324)
	Aquaneat Aquatic Herbicide (228-365) Nu Farm Americas	Dow AgroSciences
	While Accord Concentrate, Rodeo, Glyphosate VMF and Aquaneat all have aquatic uses, approval for their use as sensitive materials does NOT mean that they can be used for aquatic weed control, or directly applied to water, as part of a rights of way management program. Products are subject to the no-spray and limited spray provisions of 333 CMR 11.04.	
Metsulfuron Methyl Lowest Labeled Rate for all Metsulfuron Methyl Products*	Escort XP (352-439) El Dupont	Patriot Selective Herbicide. (228-391) Nu Farm Americas
Sulfometuron Methyl Lowest Labeled Rate for all Sulfometuron-Methyl Products*	Oust XP (352-601) El Dupont	Spyder Selective Herbicide (228-408) Nu Farm Americas
Metsulfuron Methyl Sulfometuron Methyl Lowest Labeled Rate*	Oust Extra (352-622) El Dupont	
Ammonium Salt of Fosamine Lowest Labeled Rate*	Krenite S (352-395) El Dupont	Krenite S (42750-247) Albaugh, Inc.
Imazapyr 3 pints/acre every 3rd year OR 2 pints/acre every other year for all Imazapyr Products	Arsenal (241-346) Arsenal Powerline (241-431) Arsenal Railroad Herbicide (241-273) BASF	Polaris Herbicide (228-534) Nu Farm Americas
Triclopyr, Butoxy Ethyl Ester The lowest of the following rates: 1. Between 10 feet and 50 feet of the resource: Lowest labeled rate* or 0.5 pints per acre 2. Between 50 feet and the boundary of the limited spray zone: Lowest labeled rate* or 3 pints per acre	Garlon 4 (62719-40) Dow AgroSciences Garlon 4 Ultra (62719-527) Dow AgroSciences	
Paclobutrazol Lowest Labeled Rate*	Cambistat (74779-3) Rainbow Tree care	

* **Lowest labeled rate** the minimum labeled rate of the pesticide product for the appropriate site, pest and application method

Disclaimer

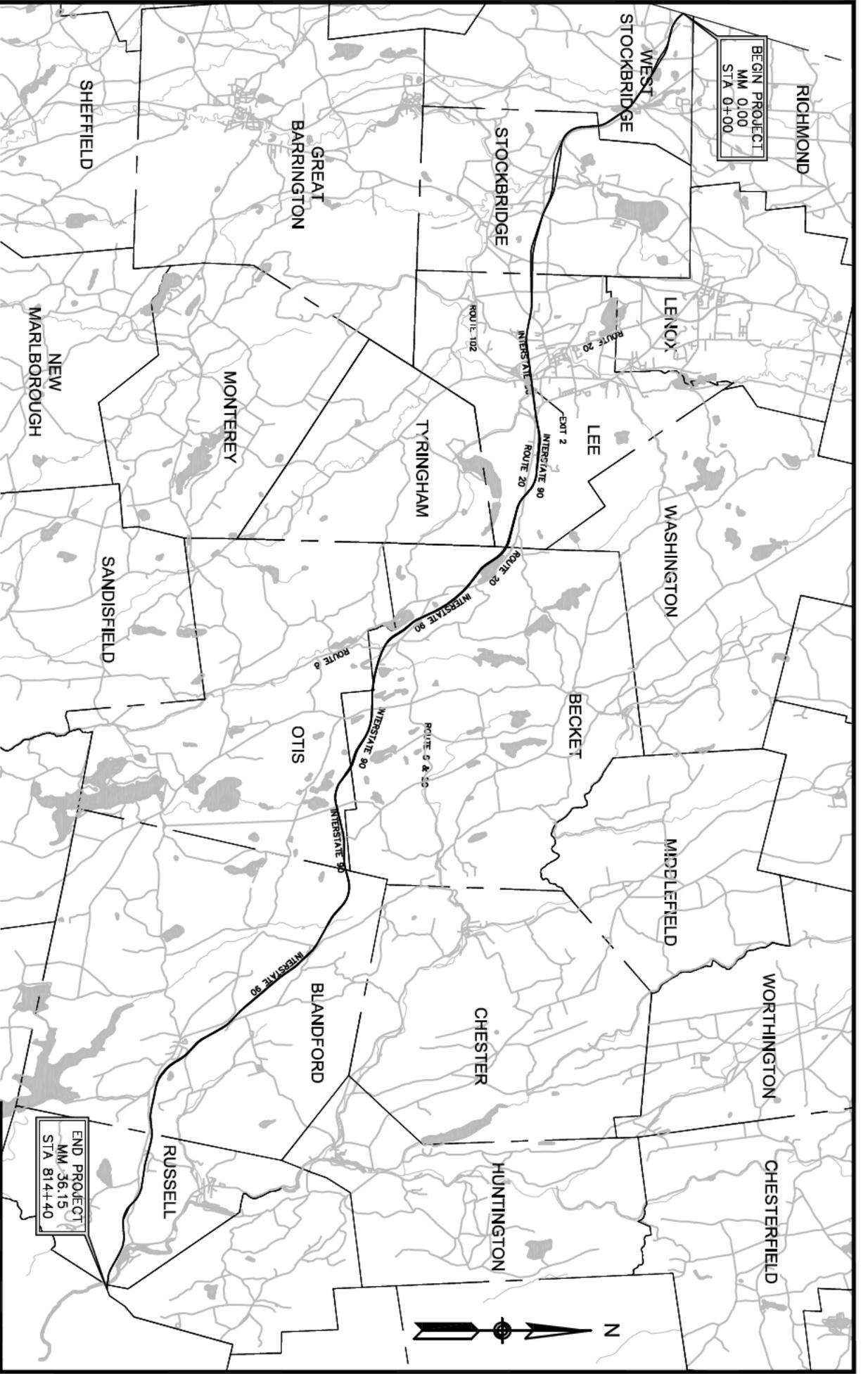
The Massachusetts Department of Agricultural Resources (MDAR) makes no endorsement of any companies, organizations, persons, products, trade or brand names referenced in this Rights of Way Sensitive Area Materials List (“the list”). Active Ingredients on the list are reviewed pursuant to a Cooperative Agreement between MDAR and the Massachusetts Department of Environmental Protection. Only environmental fate and toxicological data, including eco-toxicological data, are reviewed when evaluating an active ingredients suitability for inclusion on the list. Inclusion on the list does not represent any endorsement by MDAR as to the efficacy of the active ingredient for rights-of-way vegetation management.

APPENDIX C – VEGETATION MANAGEMENT PLAN

[District 1 - 2012-2016 VMP](#)

APPENDIX D – SPRAY LOCUS & LOCATION MAPS

Maps are available from the Districts upon request



BEGIN PROJECT
 MM 0.00
 STA 0+00

END PROJECT
 MM 36.15
 STA 81+40

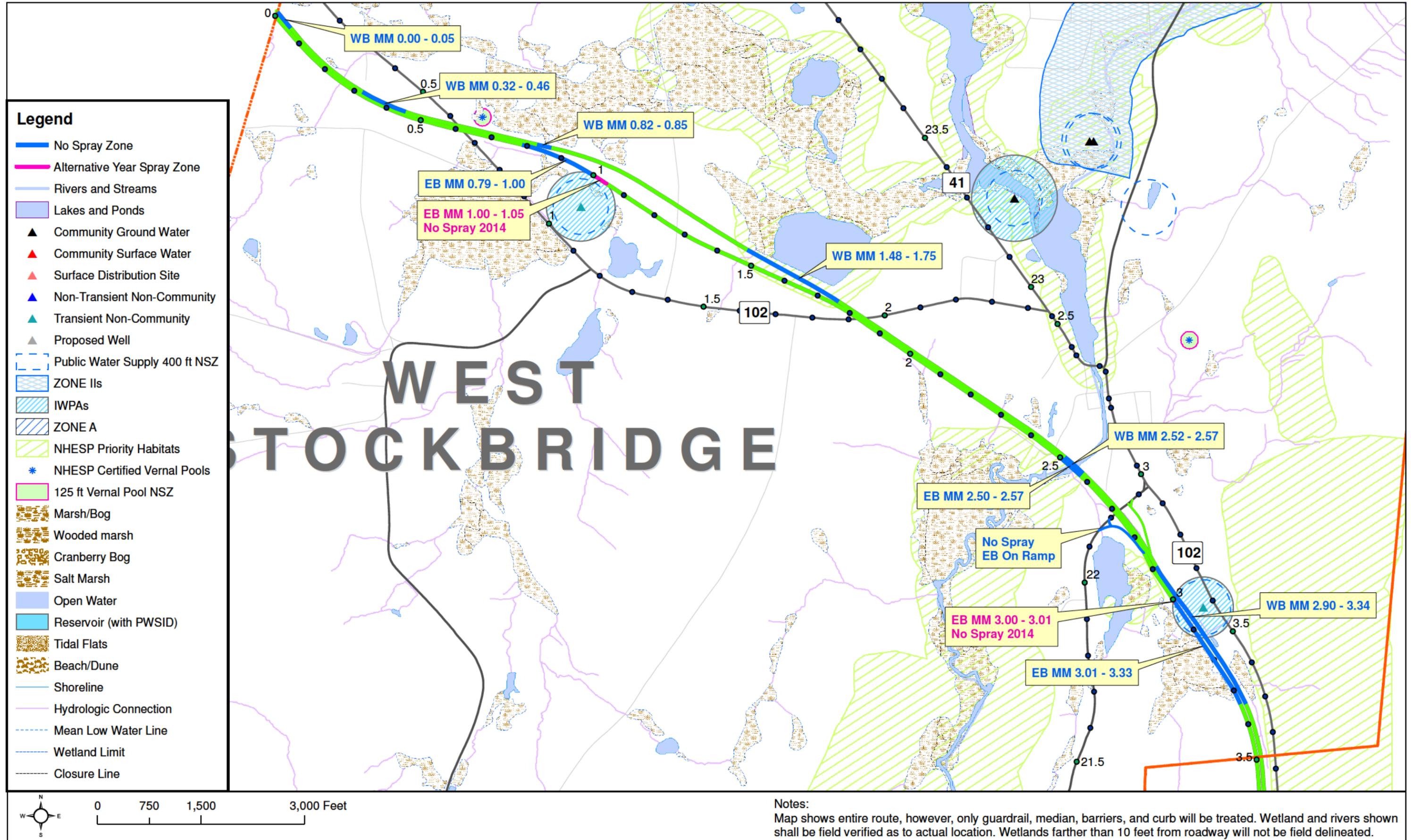


DISTRICT 1--VEGETATIVE SPRAYING AT VARIOUS LOCATIONS ALONG I-90
 LOCUS SCALE= 1"=17000' SHEET: 1 OF 1

DISTRICT 1
 LENOX, MA

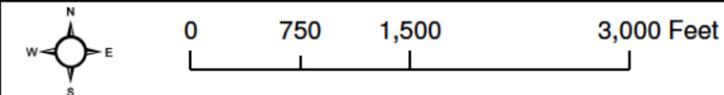
YOP MAP - DISTRICT 1

West Stockbridge - Interstate 90 (Sheet 1 of 1)



Legend

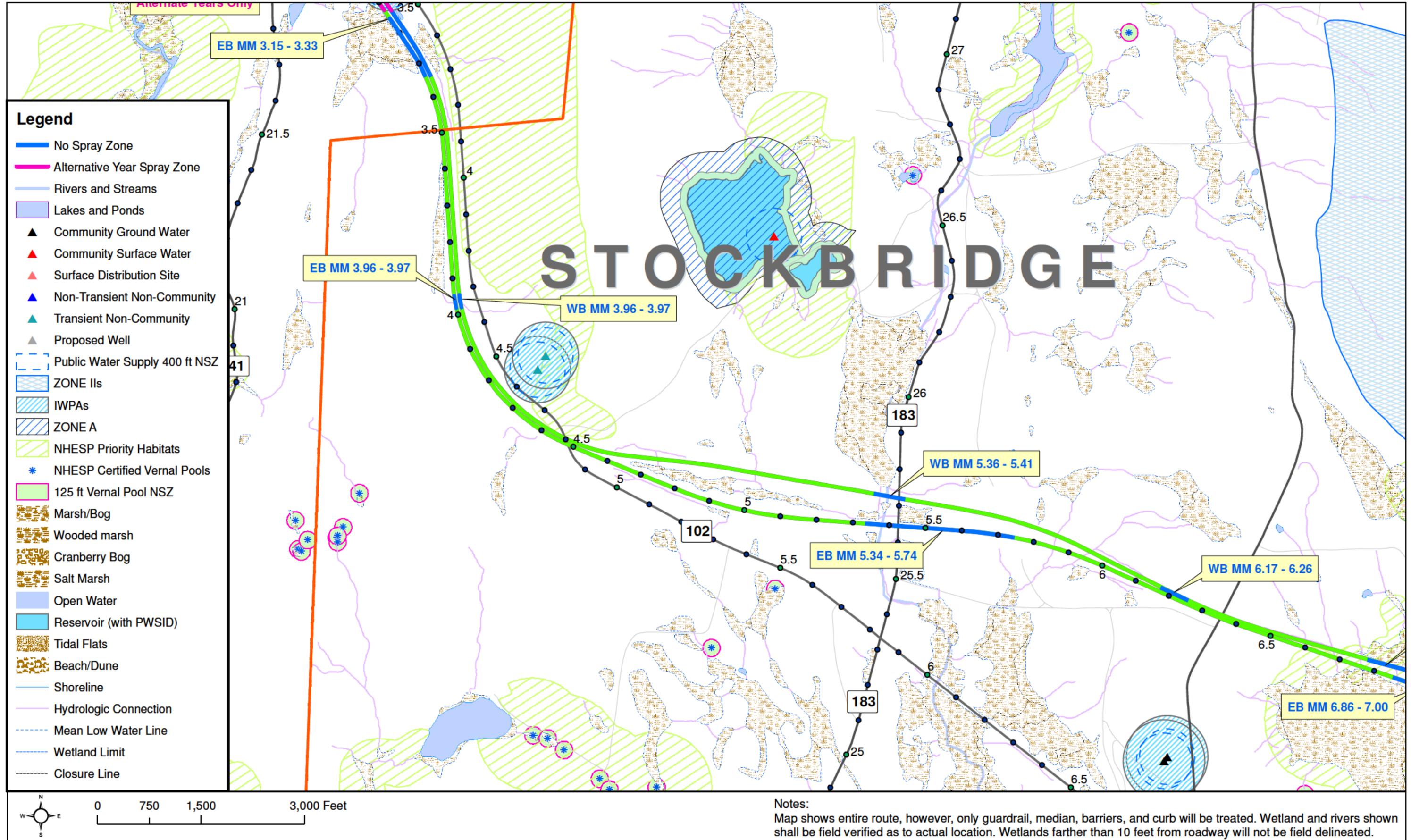
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- Alternative Year Spray Zone
- Rivers and Streams
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- ▲ Community Ground Water
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- ▲ Non-Transient Non-Community
- ▲ Transient Non-Community
- ▲ Proposed Well
- Public Water Supply 400 ft NSZ
- ZONE IIs
- IWPA's
- ZONE A
- NHESP Priority Habitats
- * NHESP Certified Vernal Pools
- 125 ft Vernal Pool NSZ
- Marsh/Bog
- Wooded marsh
- Cranberry Bog
- Salt Marsh
- Open Water
- Reservoir (with PWSID)
- Tidal Flats
- Beach/Dune
- Shoreline
- Hydrologic Connection
- Mean Low Water Line
- Wetland Limit
- Closure Line



Notes:
 Map shows entire route, however, only guardrail, median, barriers, and curb will be treated. Wetland and rivers shown shall be field verified as to actual location. Wetlands farther than 10 feet from roadway will not be field delineated.

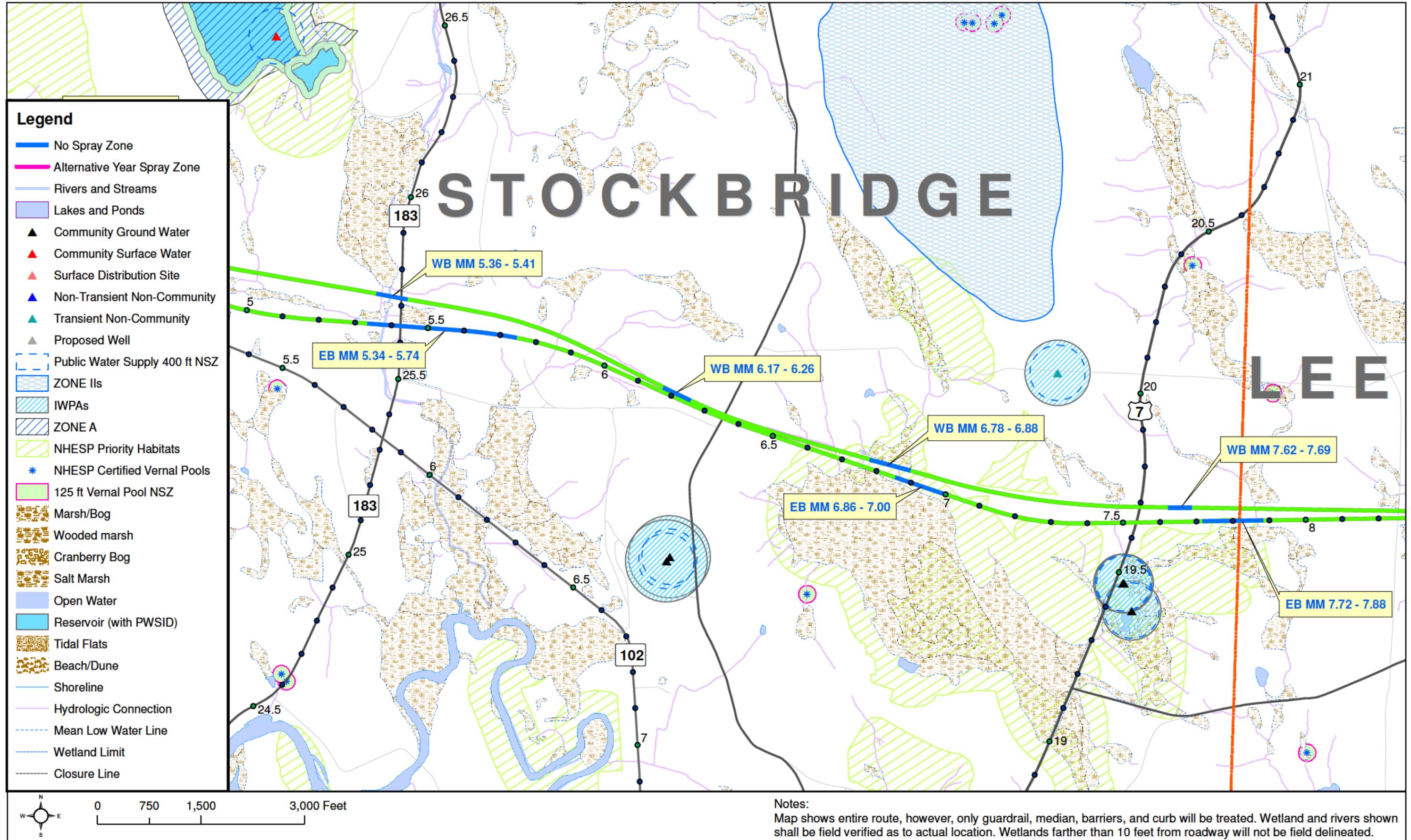
YOP MAP - District 1

Stockbridge - Interstate 90 (Sheet 1 of 2)



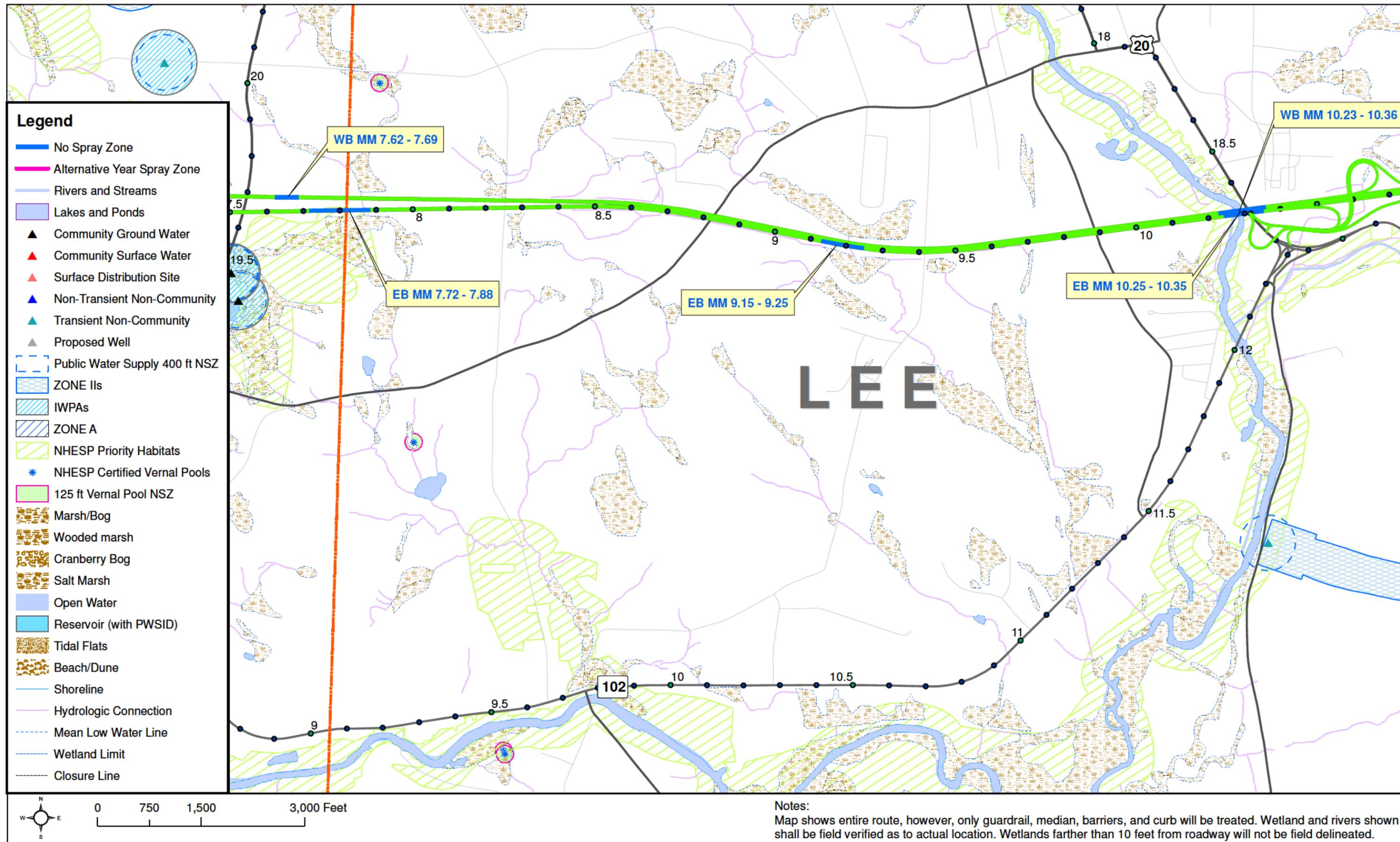
YOP MAP - District 1

Stockbridge - Interstate 90 (Sheet 2 of 2)

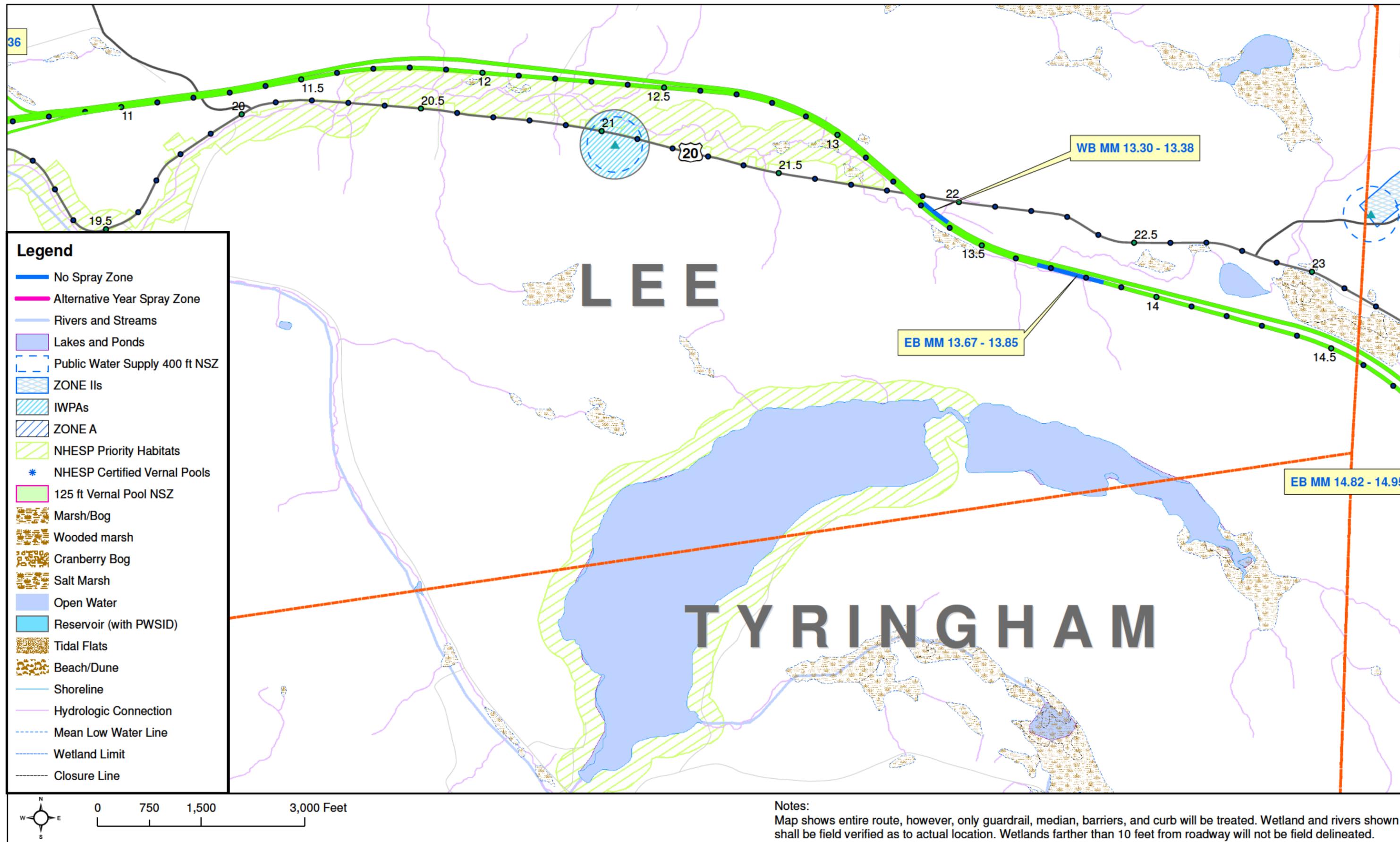


YOP MAP - District 1

Lee - Interstate 90 (Sheet 1 of 2)

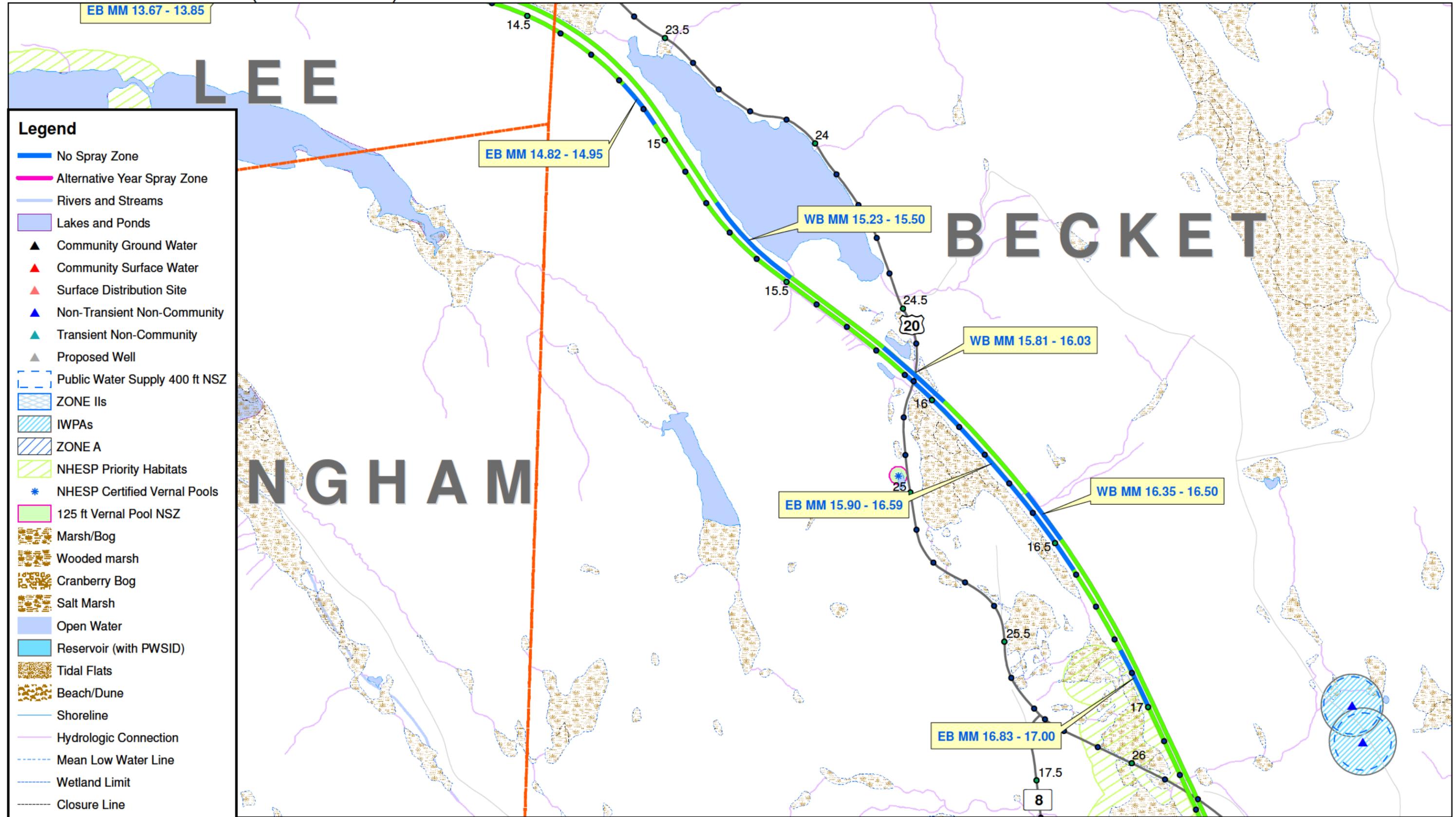


YOP MAP - District 1
Lee - Interstate 90 (Sheet 2 of 2)



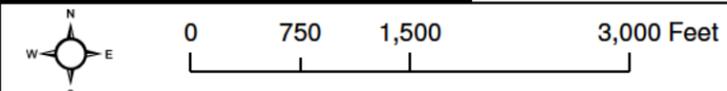
YOP MAP - District 1

Becket - Interstate 90 (Sheet 1 of 3)



Legend

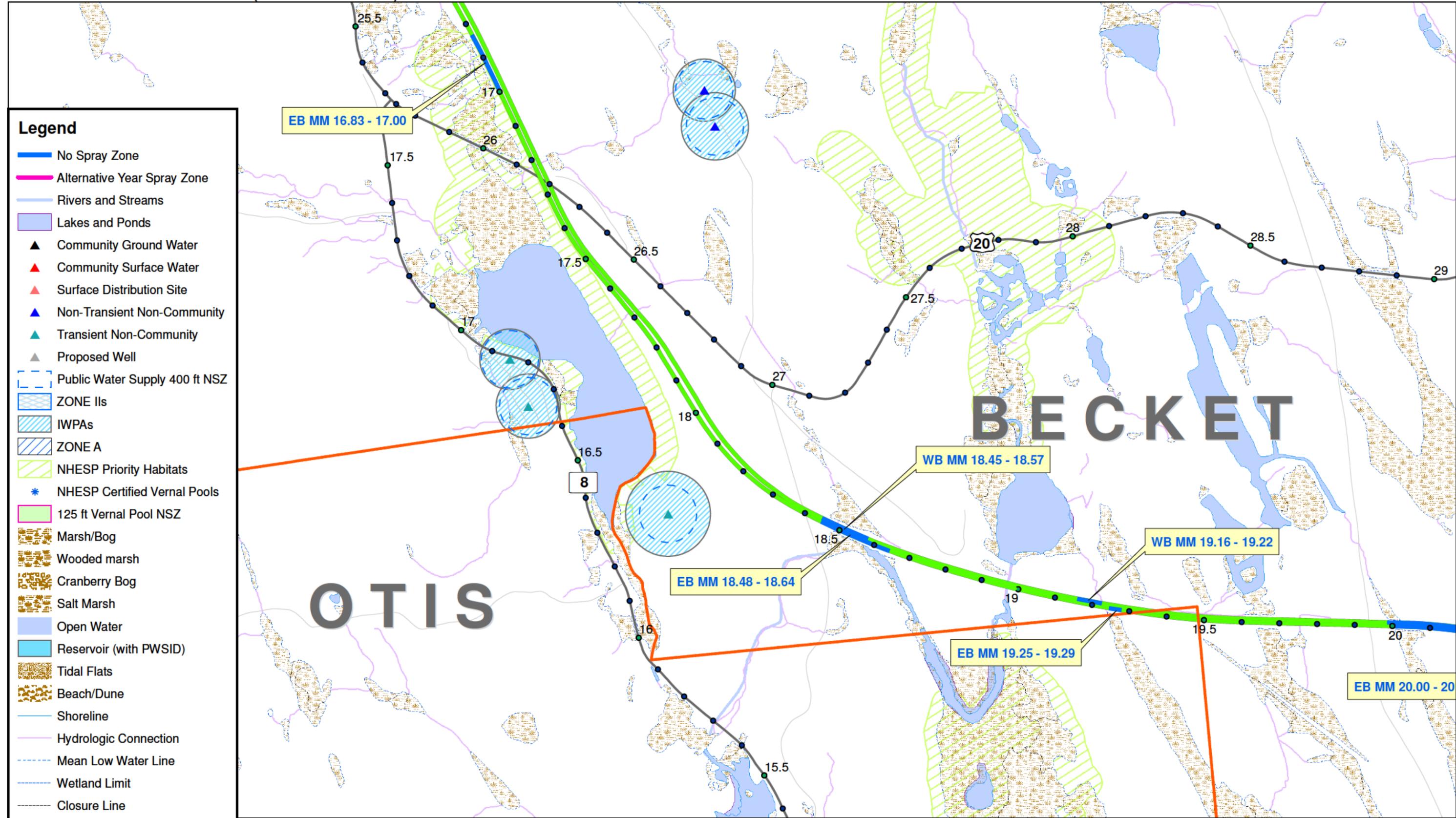
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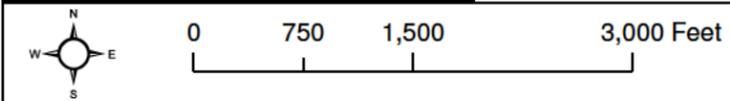
Notes:
 Map shows entire route, however, only guardrail, median, barriers, and curb will be treated. Wetland and rivers shown shall be field verified as to actual location. Wetlands farther than 10 feet from roadway will not be field delineated.

YOP MAP - District 1

Becket - Interstate 90 (Sheet 2 of 3)



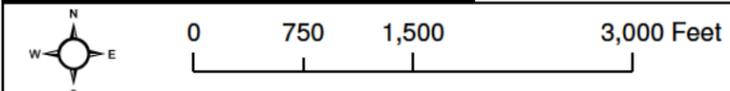
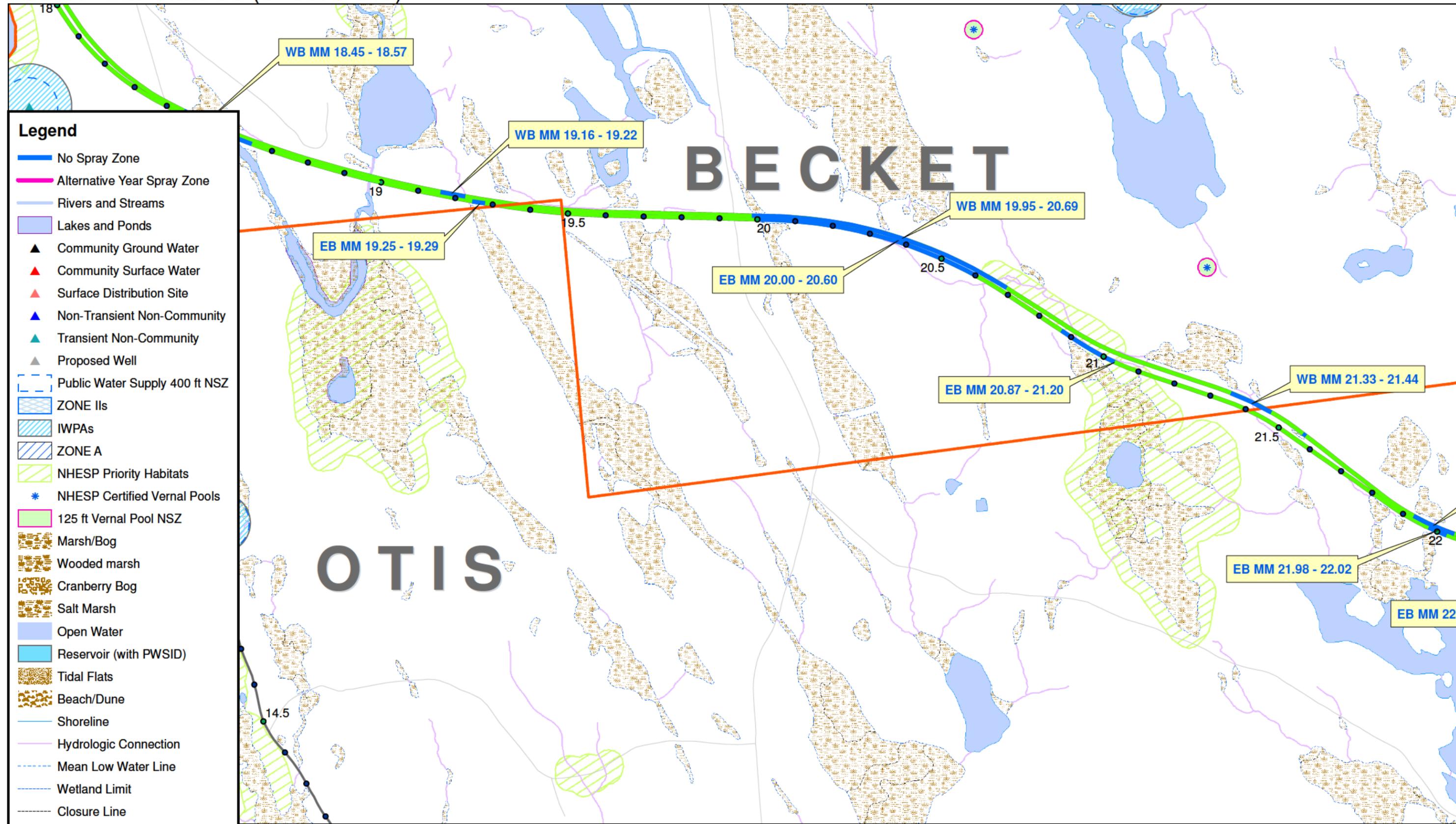
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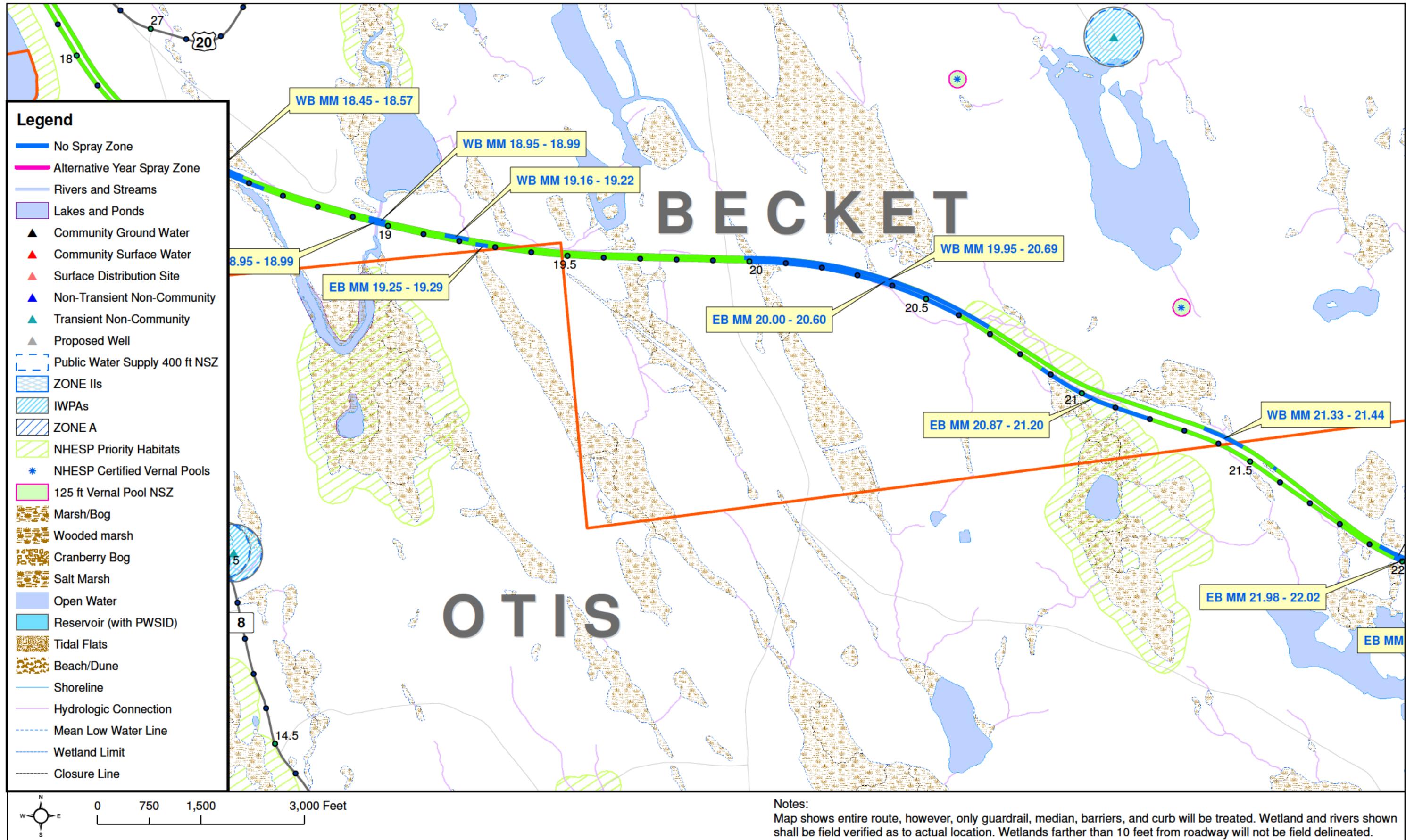
YOP MAP - District 1

Becket - Interstate 90 (Sheet 3 of 3)

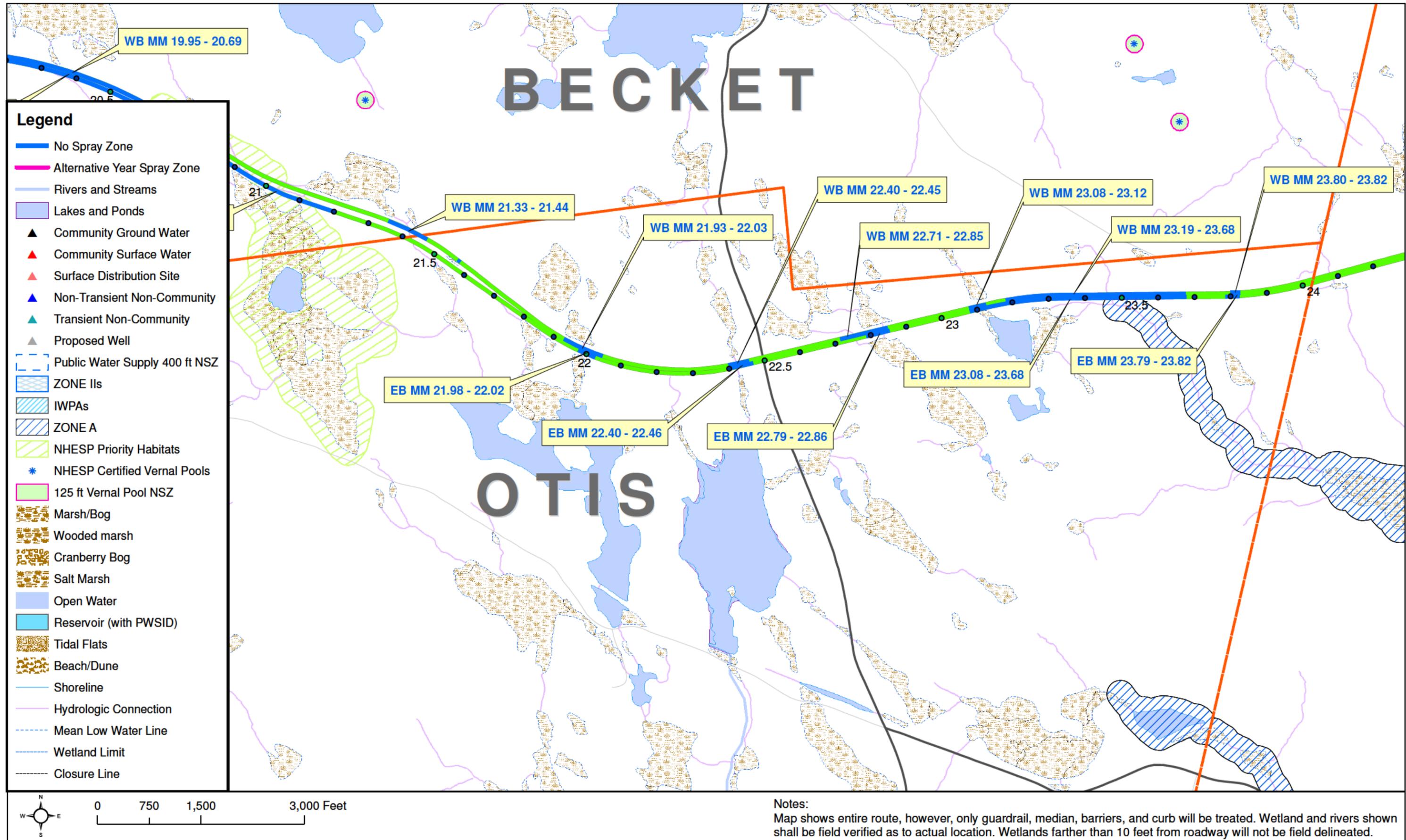


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 Map shows entire route, however, only guardrail, median, barriers, and curb will be treated. Wetland and rivers shown shall be field verified as to actual location. Wetlands farther than 10 feet from roadway will not be field delineated.

YOP MAP - District 1
 Otis - Interstate 90 (Sheet 1 of 2)

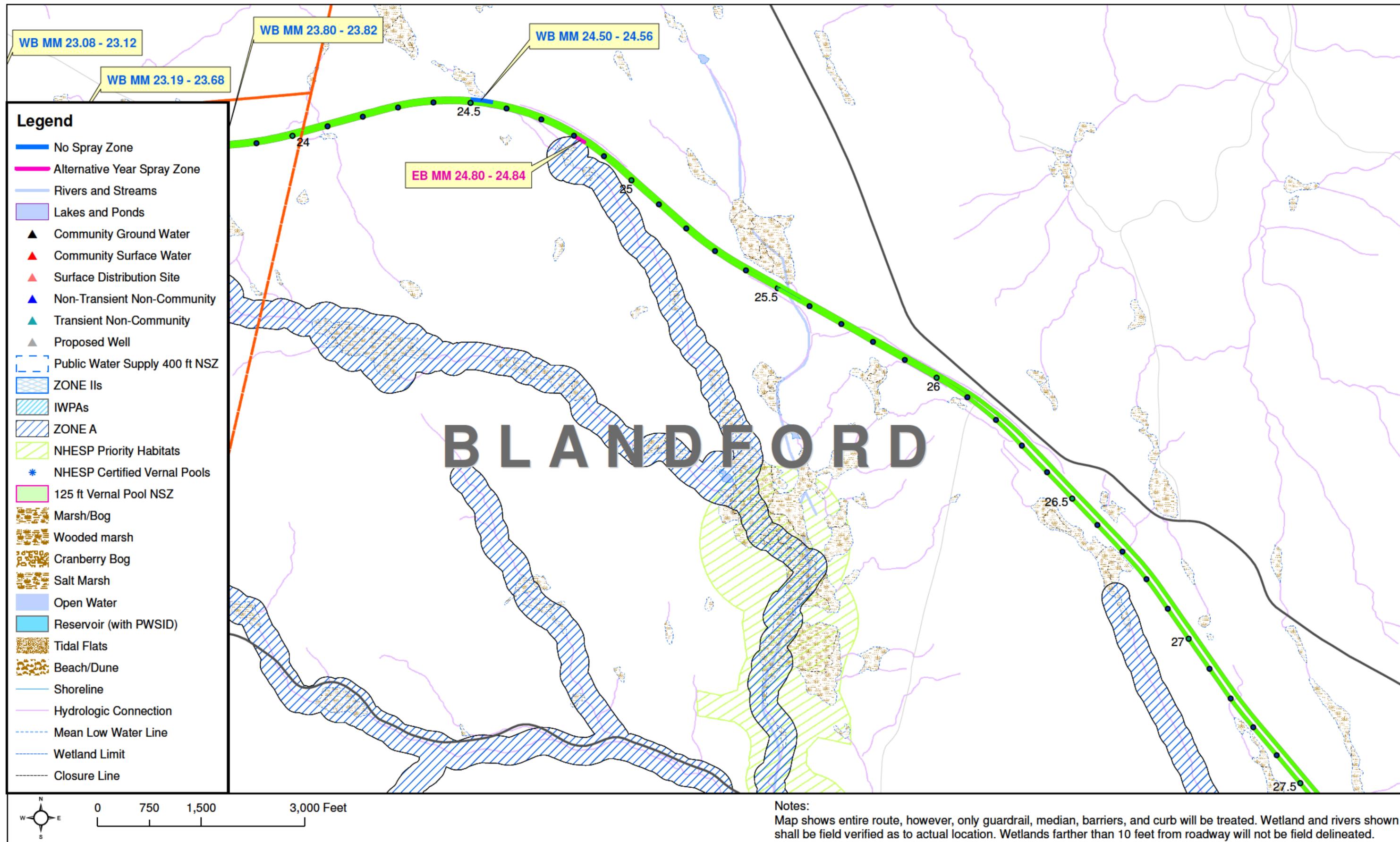


YOP MAP - District 1
Otis - Interstate 90 (Sheet 2 of 2)

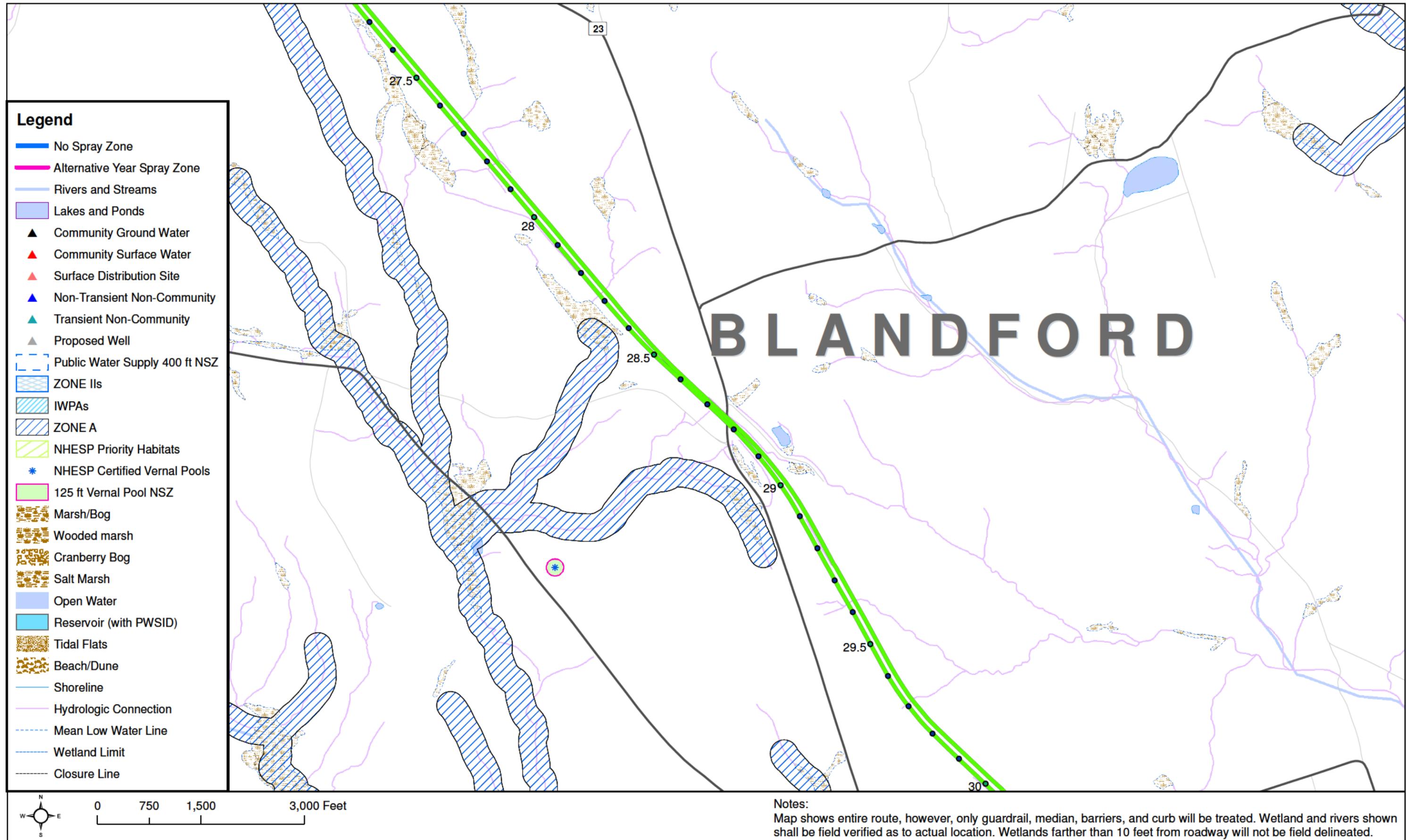


YOP MAP - District 1

Blandford - Interstate 90 (Sheet 1 of 3)

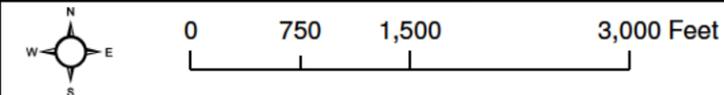


YOP MAP - District 1
 Blandford - Interstate 90 (Sheet 2 of 3)



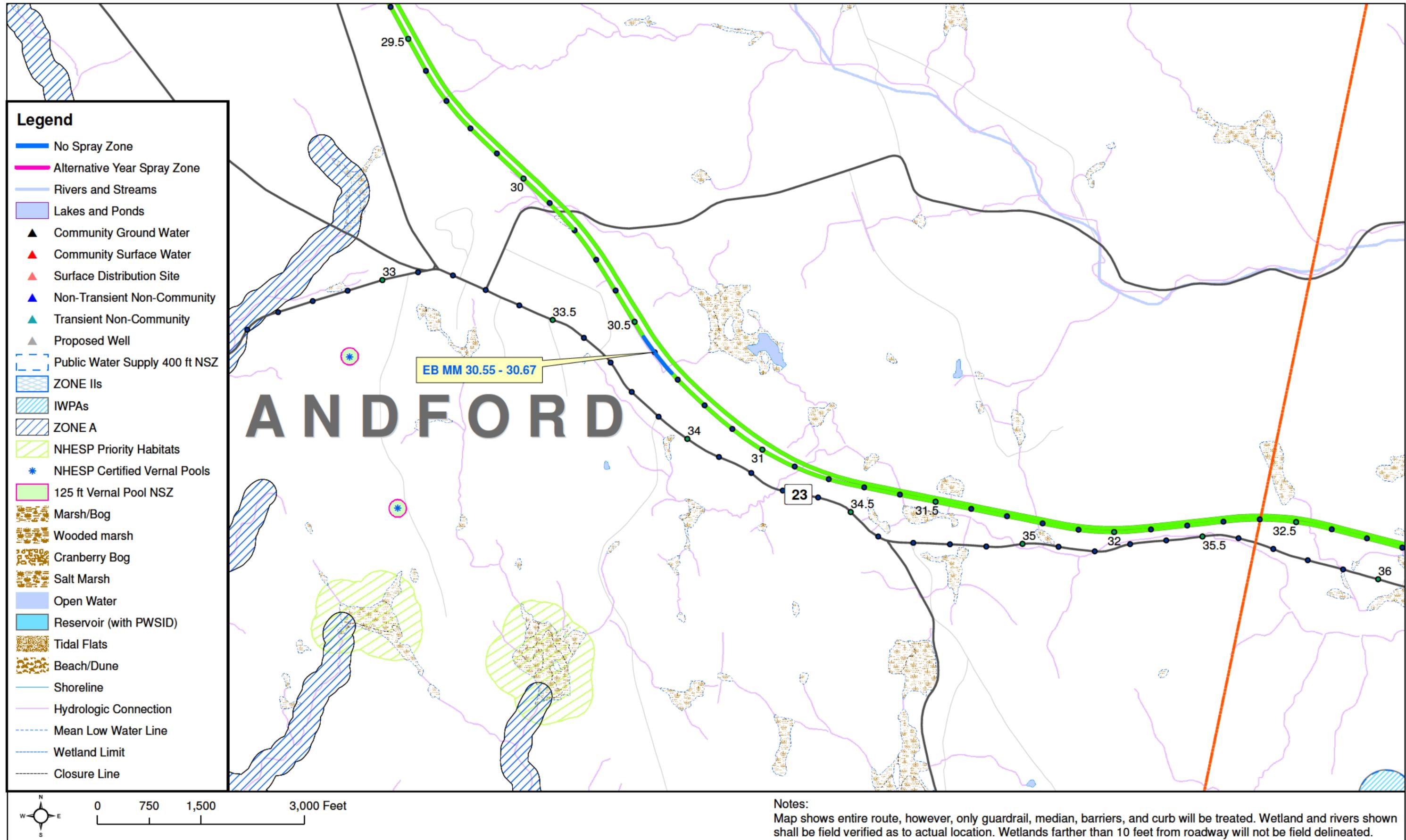
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 - Wetland Limit
 - Closure Line

BLANDFORD



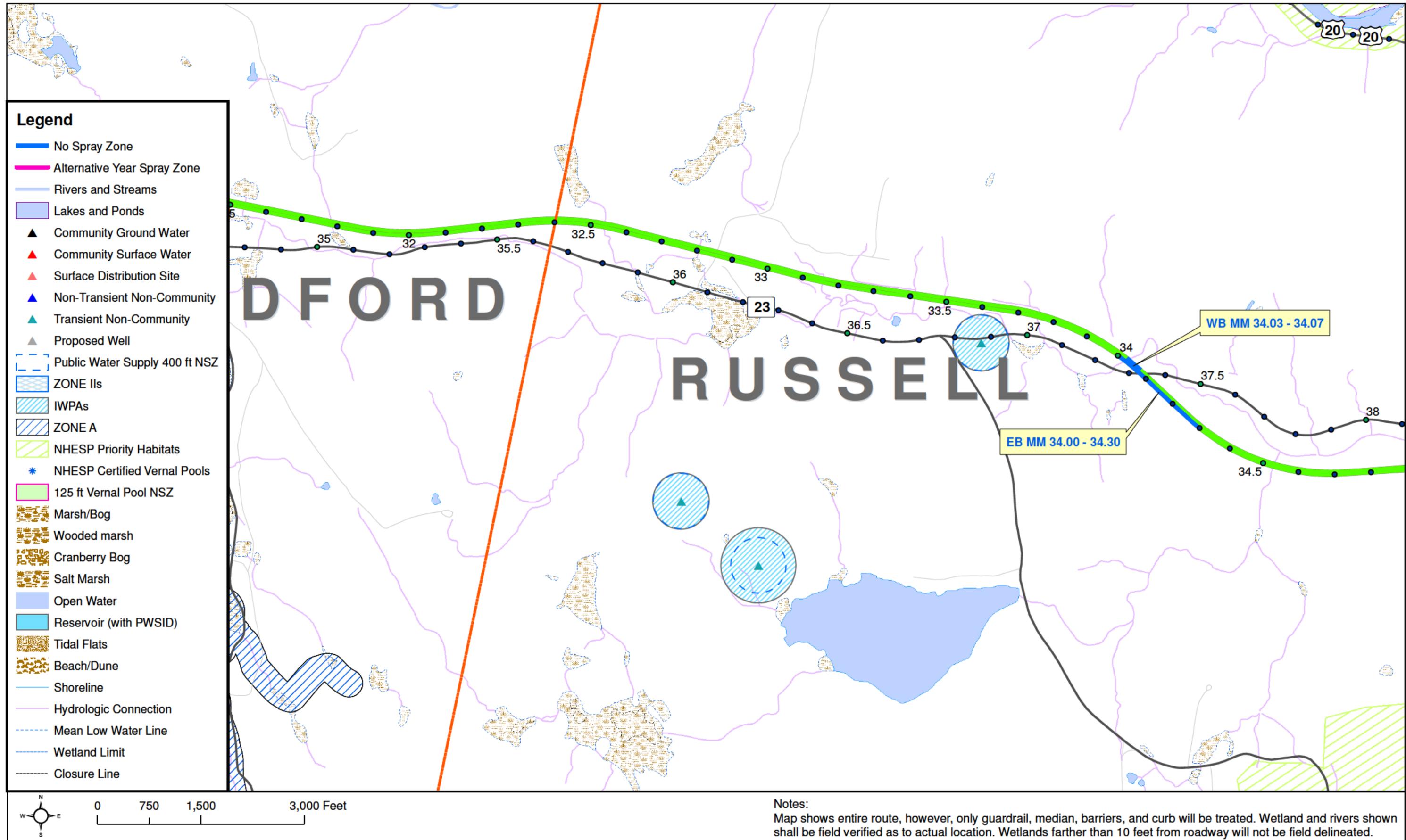
Notes:
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YOP MAP - District 1
 Blandford - Interstate 90 (Sheet 3 of 3)



YOP MAP - District 1

Russell - Interstate 90 (Sheet 1 of 2)



YOP MAP - District 1

Russell - Interstate 90 (Sheet 2 of 2)

