



MASSWILDLIFE

DIVISION OF  
**FISHERIES & WILDLIFE**

1 Rabbit Hill Road, Westborough, MA 01581

p: (508) 389-6300 | f: (508) 389-7890

**MASS.GOV/MASSWILDLIFE**

February 17, 2022

Ayer Conservation Commission  
1 Main St  
Ayer MA 01432

Kellie Doherty  
National Grid  
40 Sylvan Road, E3  
Waltham MA 02451

RE:     Applicant:                 Kellie Doherty, National Grid  
       Project Location:         National Grid K137/L138 Transmission Line  
       Project Description:       National Grid K137/L138 Line OPGW Installation Project  
       DEP Wetlands File No.:   100-0479  
       **NHESP Tracking No.:**   **21-40549**

Dear Commissioners:

The applicant listed above has submitted a Notice of Intent with site plans to the Natural Heritage & Endangered Species Program of the Massachusetts Division of Fisheries & Wildlife (the "Division"), in compliance with the rare wildlife species section of the Massachusetts Wetlands Protection Act Regulations (310 CMR 10.58(4)(b), 10.59).

Based on a review of the information that was provided and the information that is currently contained in our database, the Division has determined that this project, as currently proposed, **will not adversely affect** the actual Resource Area Habitat of state-protected rare wildlife species. Therefore, it is our opinion that this project appears to meet the state-listed species performance standard for the issuance of an Order of Conditions.

Please note that this determination addresses only the matter of **rare** wildlife habitat and does not pertain to other wildlife habitat issues that may be pertinent to the proposed project. If you have any questions regarding this letter please contact Melany Cheeseman, Endangered Species Review Assistant, at (508) 389-6357.

Sincerely,

Everose Schlüter, Ph.D.  
Assistant Director

cc:     MA DEP Central Region  
       Alison Milliman, BSC Group, Inc.

**MASSWILDLIFE**



MASSWILDLIFE

## DIVISION OF FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581

p: (508) 389-6300 | f: (508) 389-7890

MASS.GOV/MASSWILDLIFE

October 28, 2021

Kellie Doherty  
National Grid  
40 Sylvan Road, E3  
Waltham MA 02451

RE: Project Location: National Grid K137/L138 Line ROW  
Project Town: Sterling, Leominster, Lancaster, Shirley, Ayer  
Project Description: OPGW Installation Project  
NHESP File No.: **21-40549**

Dear Applicant:

Thank you for submitting the MESA Project Review Checklist, site plans and other required materials to the Natural Heritage and Endangered Species Program of the MA Division of Fisheries & Wildlife (the "Division") for review pursuant to the Massachusetts Endangered Species Act (MESA) (MGL c.131A) and its implementing regulations (321 CMR 10.00).

Based on a review of the information that was provided and the information that is currently contained in our database, the Division has determined that this project, as currently proposed, **will not result in a prohibited Take of state-listed rare species, provided the Turtle Protection Plan and impact avoidance measures are implemented as proposed.** This determination is a final decision of the Division of Fisheries & Wildlife pursuant to 321 CMR 10.18. Any changes to the proposed project or any additional work beyond that shown on the site plans may require an additional filing with the Division pursuant to the MESA. This project may be subject to further review if no physical work is commenced within five years from the date of issuance of this determination, or if there is a change to the project.

Please note that this determination addresses only the matter of state-listed species and their habitats. If you have any questions regarding this letter please contact Melany Cheeseman, Endangered Species Review Assistant, at (508) 389-6357.

Sincerely,

Everose Schlüter, Ph.D.  
Assistant Director

cc: Sarah Barnum, BSC Group, Inc.

MASSWILDLIFE

# MassDEP NOI File Number

CERO\_NOI@MassMail.state.ma.us

Tue 2/15/2022 12:54 PM

To: kellie.doherty@nationalgrid.com <kellie.doherty@nationalgrid.com>; amilliman@bscgroup.com <amilliman@bscgroup.com>;  
Cc: cero\_noi@state.ma.us <cero\_noi@state.ma.us>; Ayer Conservation Commission <concom@ayer.ma.us>; cero\_noi@state.ma.us <cero\_noi@state.ma.us>;

COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL REGIONAL OFFICE  
8 NEW BOND STREET, WORCESTER, MA 01606 508-792-7650

Date: 02/15/2022

Municipality AYER

RE: NOTIFICATION OF WETLANDS PROTECTION ACT FILE NUMBER

The Department of Environmental Protection has received a Notice of Intent filed in accordance with the Wetlands Protection Act (M.G.L. c. 131, §40):

<b>Applicant</b> NEW ENGLAND POWER COMPANY (NEP)	<b>Owner</b> NEP HAS EASEMENT RIGHTS <b>Address</b> ,
<b>Address</b> 40 SYLVAN ROAD, WALTHAM MA 02451	
<b>Locus</b> K137/L138 TRANSMISSION LINE , AYER MA 01432	

This project has been assigned the following file #: CE 100-0479

ISSUANCE OF A FILE NUMBER INDICATES ONLY COMPLETENESS OF SUBMITTAL, NOT APPROVAL OF APPLICATION

Although a file # is being issued, please note the following:

The application materials suggest that work will occur within Land Under Waterbodies, and potentially alter Bank resource area, however no impact values for these resource area are listed on the submitted WPA Form 3. While some of the impacts to these and other wetland resource areas may be temporary in nature MassDEP recommends the applicant update applicable sections WPA Form 3 to include relevant impact area and replacement values for these resource areas for Commission review even where impacts are temporal or direct replacement is proposed. The application materials note that no volumetric change in BLSF is anticipated with the proposed work but notes that if volumetric change occurs compensatory storage will be provided. In the event that volumetric changes to flood plain will be required the applicant should submit revised resource area impact values for Commission review.

Regards,  
for MassDEP,

(508)-767-2721  
Thomas.Rebula@Mass.gov

# NEW ENGLAND POWER COMPANY

## K137/L138 Mainline OPGW Installation Project Construction Phase

### Notice of Intent

Town of Ayer  
Conservation Commission  
January 2022

Prepared for:  
New England Power Company  
40 Sylvan Road  
Waltham, MA 02451

BSC Project No. 89620.64

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January 15, 2022

Ayer Conservation Commission  
Town Hall, 1 Main Street  
Ayer, MA 01432

**RE: Notice of Intent  
K137/L138 Transmission Line OPGW Project  
Ayer, Massachusetts  
New England Power Company**

Dear Jon Schmalenberger and Members of the Ayer Conservation Commission:

BSC Group, Inc. (BSC) is filing this Notice of Intent (NOI) on behalf of the New England Power Company (NEP) for maintenance and improvement activities along the K137/L138 Transmission Line Right-of-Way (ROW) in Ayer, Massachusetts (the Project). The purpose of the Project is to refurbish portions of the line and install optical ground wire (OPGW) along the line to facilitate faster communication between substations. In order to support the upgrades, ROW maintenance activities are necessary, including structure replacements and access road improvements. This NOI is being submitted in accordance with the Massachusetts Wetlands Protection Act (M.G.L. Ch.131, S.40) (WPA), implementing regulations (310 CMR 10.00), and the Town of Ayer Wetland Protection Bylaw.

Activities proposed as part of the Project in Ayer include maintenance and improvement activities at sixty-two (62) existing structures along the K137/L138 Line, twenty-six (26) of which are located within jurisdictional Wetland Resource Areas or Buffer Zones. Work is proposed within Bordering Vegetated Wetlands (BVW), 100-ft Buffer Zone to BVW, 200-ft Riverfront Area (RA), FEMA 100-Year Floodplain/Bordering Land Subject to Flooding (BLSF), Land Under Water (LUW), Areas of Critical Environmental Concern (ACEC), and Natural Heritage Endangered Species Program (NHESP) Priority/Estimated Habitat. Activities are also proposed within the locally regulated 50-ft No Disturb Zone and 100-ft Buffer to Vernal Pools. Stream crossings (spanning bank) are required for access to and work set up at structures.

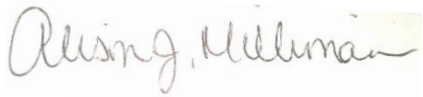
A portion of the proposed activities may be considered exempt utility maintenance in accordance with 310 CMR 10.02(2)(a)(2) of the WPA and implementing regulations, and the Ayer Wetlands Bylaw Section 4. Specifically, the in-kind replacement of existing structures and general maintenance work at existing structures, which will not substantially change or enlarge the footprint of existing structures. As such, this NOI serves as both notification of exempt utility maintenance activities (as described within the main narrative), and a request for an Order of Conditions for non-exempt portions of the proposed work. The Project has been designed to meet all applicable performance standards of the WPA and Ayer Wetlands Bylaw through avoidance, minimization, and mitigation measures, as described in further detail in the Project Narrative.

This Project qualifies as a Limited Project in accordance with the WPA regulations (310 CMR 10.53(3)(d)) which allows for the “construction, reconstruction, operation and maintenance of... overhead public utilities...” provided there are no alternatives, best available measures are used to minimize adverse effects

during construction, and that vegetation and existing grades are restored. Best Management Practices (BMPs), including sediment and erosion controls, will be implemented during construction. NEP has performed an analysis of all possible alternatives and the Project has been designed to avoid and minimize the potential for adverse impacts to wetland resource areas to the greatest extent practicable.

We respectfully request that this matter be heard at the next scheduled Conservation Commission hearing. A copy of this application has also been sent to the Central Regional Office of the Department of Environmental Protection (via the eDEP portal). BSC also requests a waiver from the requirements of the 50-ft No Disturbance Zone, as described within the Project Narrative. If you have any questions regarding the enclosed information, please contact me at (617) 896-4532, or Kellie Doherty of National Grid at 781-703-1085. Thank you for your consideration in this matter.

Truly yours,  
BSC Group, Inc.



Alison Milliman  
Project Manager

cc: Kellie Doherty, National Grid  
MassDEP Central Regional Office

WPA Form 3 – Notice of Intent, NOI Fee Transmittal Form, Copy of Filing Fee Checks

**Attachment A** Detailed Project Narrative

**Attachment B** USGS Site Locus Map, Environmental Resources Map

**Attachment C** Site Photographs and Wetland Delineation Forms

**Attachment D** Abutters Notification Letter and Certified List of Abutters

**Attachment E** National Grid's Best Management Practices Manual (EG-303)

# Table of Contents

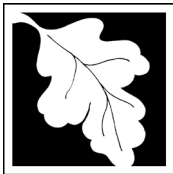
K137/L138 Mainline OPGW Installation Project  
Construction Phase  
Ayer, Massachusetts  
Notice of Intent

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WPA FORM 3	NOTICE OF INTENT FORM COPY OF FILING FEE CHECKS
ATTACHMENT A	PROJECT NARRATIVE
ATTACHMENT B	USGS SITE LOCUS MAP ENVIRONMENTAL RESOURCES MAP / FEMA E A A
ATTACHMENT C	SITE PHOTOGRAPHS WETLAND DELINEATION FORMS
ATTACHMENT D	ABUTTERS NOTIFICATION LETTER CERTIFIED LIST OF ABUTTERS AFFIDAVIT OF SERVICE
ATTACHMENT E	NATIONAL GRID'S BEST MANAGEMENT PRACTICES







Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

**WPA Form 3 – Notice of Intent**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Ayer

City/Town

**Important:**

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

**A. General Information**

1. Project Location (**Note:** electronic filers will click on button to locate project site):

<u>K137/L138 Transmission Line</u>	<u>Ayer</u>	<u>01432</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	<u>42.579926 to</u>	<u>-71.609029 to</u>
	<u>42.567896</u>	<u>-71.531435</u>
<u>See Attachment D</u>	<u>See Attachment D</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>Kellie</u>	<u>Doherty</u>	
a. First Name	b. Last Name	
<u>New England Power Company (NEP)</u>		
c. Organization		
<u>40 Sylvan Road</u>		
d. Street Address		
<u>Waltham</u>	<u>MA</u>	<u>02451</u>
e. City/Town	f. State	g. Zip Code
<u>(781) 703-1085</u>	<u>kellie.doherty@nationalgrid.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property owner (required if different from applicant):  Check if more than one owner

NEP has easement rights

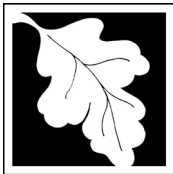
a. First Name	b. Last Name	
c. Organization		
d. Street Address		
e. City/Town	f. State	g. Zip Code
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Alison</u>	<u>Milliman</u>	
a. First Name	b. Last Name	
<u>BSC Group, Inc.</u>		
c. Company		
<u>33 Waldo Street</u>		
d. Street Address		
<u>Worcester</u>	<u>MA</u>	<u>01608</u>
e. City/Town	f. State	g. Zip Code
<u>(617) 896-4532</u>	<u>amilliman@bscgroup.com</u>	
h. Phone Number	i. Fax Number	j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

<u>\$750.00</u>	<u>\$362.50</u>	<u>\$387.50</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

**WPA Form 3 – Notice of Intent**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Ayer
City/Town

**A. General Information (continued)**

6. General Project Description:

NEP is proposing to conduct general maintenance activities & improvements along the K137/L138 transmission line. Activities will include structure replacements, access road improvements, and overhead work. The work is necessary to extend asset life & provide high speed communications between substations.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1.  Single Family Home
- 2.  Residential Subdivision
- 3.  Commercial/Industrial
- 4.  Dock/Pier
- 5.  Utilities
- 6.  Coastal engineering Structure
- 7.  Agriculture (e.g., cranberries, forestry)
- 8.  Transportation
- 9.  Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1.  Yes  No      If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types) 310 CMR 10.53(3)(d) which allows the "...construction, reconstruction, operation and maintenance of underground and overhead public utilities..."

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Middlesex South - ROW Easement	
a. County	b. Certificate # (if registered land)
c. Book	d. Page Number

**B. Buffer Zone & Resource Area Impacts (temporary & permanent)**

- 1.  Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2.  Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Form 3 – Notice of Intent**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:  
 \_\_\_\_\_  
 MassDEP File Number  
 \_\_\_\_\_  
 Document Transaction Number  
 Ayer  
 \_\_\_\_\_  
 City/Town

**B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)**

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet _____	2. linear feet _____
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	116 1. square feet _____	232 2. square feet _____
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet _____ 3. cubic yards dredged _____	2. square feet _____

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	20 1. square feet _____ 0 3. cubic feet of flood storage lost _____	2. square feet _____ 4. cubic feet replaced _____
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet _____ 2. cubic feet of flood storage lost _____	3. cubic feet replaced _____
f. <input checked="" type="checkbox"/> Riverfront Area	Inland: Nashua River & James Brook 1. Name of Waterway (if available) - <b>specify coastal or inland</b>	

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

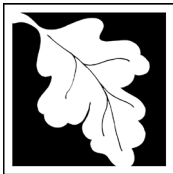
3. Total area of Riverfront Area on the site of the proposed project: 418,439  
square feet

4. Proposed alteration of the Riverfront Area:  
0                                      0                                      0  
 a. total square feet                      b. square feet within 100 ft.                      c. square feet between 100 ft. and 200 ft.

- 5. Has an alternatives analysis been done and is it attached to this NOI?                       Yes  No
- 6. Was the lot where the activity is proposed created prior to August 1, 1996?                       Yes  No

3.  Coastal Resource Areas: (See 310 CMR 10.25-10.35)

**Note:** for coastal riverfront areas, please complete **Section B.2.f.** above.



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

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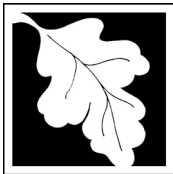
City/Town

**B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)**

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:  
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	
	_____	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	
	_____	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	_____	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	_____	_____
	a. square feet of BVW	b. square feet of Salt Marsh
5. <input type="checkbox"/> Project Involves Stream Crossings		
	_____	_____
	a. number of new stream crossings	b. number of replacement stream crossings



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

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## C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

### Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

- Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to [http://maps.massgis.state.ma.us/PRI\\_EST\\_HAB/viewer.htm](http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm).

- a.  Yes    No      **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program  
Division of Fisheries and Wildlife  
1 Rabbit Hill Road  
Westborough, MA 01581**

- August 2021  
b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

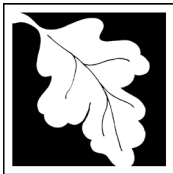
- c. Submit Supplemental Information for Endangered Species Review\*

- Percentage/acreage of property to be altered:
  - (a) within wetland Resource Area \_\_\_\_\_ percentage/acreage
  - (b) outside Resource Area \_\_\_\_\_ percentage/acreage
- Assessor's Map or right-of-way plan of site

- Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work \*\*
  - (a)  Project description (including description of impacts outside of wetland resource area & buffer zone)
  - (b)  Photographs representative of the site

\* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

\*\* MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
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## C. Other Applicable Standards and Requirements (cont'd)

(c)  MESA filing fee (fee information available at [http://www.mass.gov/dfwele/dfw/nhosp/regulatory\\_review/ mesa/ mesa\\_fee\\_schedule.htm](http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_fee_schedule.htm)).  
Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

*Projects altering 10 or more acres of land, also submit:*

(d)  Vegetation cover type map of site

(e)  Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1.  Project is exempt from MESA review.  
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, [http://www.mass.gov/dfwele/dfw/nhosp/regulatory\\_review/ mesa/ mesa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_exemptions.htm); the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2.  Separate MESA review ongoing. 21-40549 October 5, 2021  
a. NHESP Tracking # b. Date submitted to NHESP

3.  Separate MESA review completed.  
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a.  Not applicable – project is in inland resource area only      b.  Yes     No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

Division of Marine Fisheries -  
Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
1213 Purchase Street – 3rd Floor  
New Bedford, MA 02740-6694  
Email: [DMF.EnvReview-South@state.ma.us](mailto:DMF.EnvReview-South@state.ma.us)

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -  
North Shore Office  
Attn: Environmental Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930  
Email: [DMF.EnvReview-North@state.ma.us](mailto:DMF.EnvReview-North@state.ma.us)

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



**Massachusetts Department of Environmental Protection**  
Bureau of Resource Protection - Wetlands

**WPA Form 3 – Notice of Intent**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Ayer

City/Town

**C. Other Applicable Standards and Requirements (cont'd)**

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a.  Yes  No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.  
Petapawag and Squannassit
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a.  Yes  No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a.  Yes  No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a.  Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1.  Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
  2.  A portion of the site constitutes redevelopment
  3.  Proprietary BMPs are included in the Stormwater Management System.
- b.  No. Check why the project is exempt:
1.  Single-family house
  2.  Emergency road repair
  3.  Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

**D. Additional Information**

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

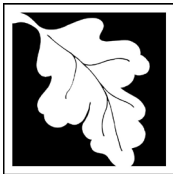
Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

**Online Users:** Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1.  USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2.  Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.

**Online Users:**  
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.





Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Ayer
City/Town

## D. Additional Information (cont'd)

3.  Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4.  List the titles and dates for all plans and other materials submitted with this NOI.

Environmental Resources Map

a. Plan Title

BSC Group, Inc.

N/A

b. Prepared By

c. Signed and Stamped by

12/13/2021

1" = 100'

d. Final Revision Date

e. Scale

USGS Site Locus Map

12/13/2021

f. Additional Plan or Document Title

g. Date

5.  If there is more than one property owner, please attach a list of these property owners not listed on this form.

6.  Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7.  Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8.  Attach NOI Wetland Fee Transmittal Form

9.  Attach Stormwater Report, if needed.

## E. Fees

1.  Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2816

12/8/2021

2. Municipal Check Number

3. Check date

eDEP filing

N/A

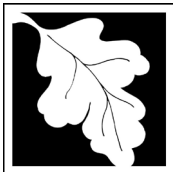
4. State Check Number

5. Check date

BSC Companies, Inc.

6. Payor name on check: First Name

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Ayer
City/Town

## F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

*Erin Whoriskey*

Erin Whoriskey- NEP on behalf of Kellie Doherty

1/15/2022

1. Signature of Applicant

2. Date

3. Signature of Property Owner (if different)

*Alison Millman*

4. Date

1/15/2022

5. Signature of Representative (if any)

6. Date

### For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

### For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

### Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**NOI Wetland Fee Transmittal Form**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

**Important:** When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



**A. Applicant Information**

1. Location of Project:

<u>K137/L138 Transmission Line ROW</u>	<u>Ayer</u>
a. Street Address	b. City/Town
<u>eDEP payment</u>	<u>\$362.50</u>
c. Check number	d. Fee amount

2. Applicant Mailing Address:

<u>Kellie</u>	<u>Doherty</u>	
a. First Name	b. Last Name	
<u>New England Power Company (NEP)</u>		
c. Organization		
<u>40 Sylvan Road</u>		
d. Mailing Address		
<u>Waltham</u>	<u>MA</u>	<u>02451</u>
e. City/Town	f. State	g. Zip Code
<u>(781) 703-1085</u>	<u>kellie.doherty@nationalgrid.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

<u>NEP has easement rights</u>		
a. First Name	b. Last Name	
_____		
c. Organization		
_____		
d. Mailing Address		
_____		
_____	_____	_____
e. City/Town	f. State	g. Zip Code
_____	_____	_____
h. Phone Number	i. Fax Number	j. Email Address

**B. Fees**

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

**Step 1/Type of Activity:** Describe each type of activity that will occur in wetland resource area and buffer zone.

**Step 2/Number of Activities:** Identify the number of each type of activity.

**Step 3/Individual Activity Fee:** Identify each activity fee from the six project categories listed in the instructions.

**Step 4/Subtotal Activity Fee:** Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

**Step 5/Total Project Fee:** Determine the total project fee by adding the subtotal amounts from Step 4.

**Step 6/Fee Payments:** To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**NOI Wetland Fee Transmittal Form**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

**B. Fees** (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 2(e)	1 x 1.5	\$750.00	\$750.00
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<b>Step 5/Total Project Fee:</b>			\$750.00
<b>Step 6/Fee Payments:</b>			
Total Project Fee:			\$750.00
State share of filing Fee:			\$362.50
City/Town share of filing Fee:			\$387.50
			a. Total Fee from Step 5
			b. 1/2 Total Fee <b>less</b> \$12.50
			c. 1/2 Total Fee <b>plus</b> \$12.50

**C. Submittal Requirements**

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection  
 Box 4062  
 Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

**To MassDEP Regional Office** (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)



HOLD TO LIGHT TO VIEW TRUE WATERMARK IN PAPER. HEAT SENSITIVE RED LOCK DISAPPEARS WHEN HEATED.

2816

**BSC COMPANIES, INC.**  
803 SUMMER STREET  
BOSTON, MASSACHUSETTS 02127



53-179/113

DATE 12/8/21

PAY  
TO THE  
ORDER OF

Town of Ayer

Three hundred eighty-seven dollars <sup>50/100</sup> \$ 387.50  
DOLLARS

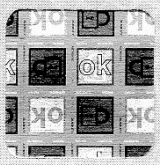
**Eastern Bank**  
Boston, MA 02110  
easternbank.com  
1-800-EASTERN

TWO SIGNATURES REQUIRED OVER \$2,500  
NOT VALID AFTER 180 DAYS

FOR 89629.64



[Signature]



⑈002816⑈ ⑆011301798⑆ 0600659304⑈





MASSWILDLIFE

## DIVISION OF FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581

p: (508) 389-6300 | f: (508) 389-7890

MASS.GOV/MASSWILDLIFE

October 28, 2021

Kellie Doherty  
National Grid  
40 Sylvan Road, E3  
Waltham MA 02451

RE: Project Location: National Grid K137/L138 Line ROW  
Project Town: Sterling, Leominster, Lancaster, Shirley, Ayer  
Project Description: OPGW Installation Project  
NHESP File No.: **21-40549**

Dear Applicant:

Thank you for submitting the MESA Project Review Checklist, site plans and other required materials to the Natural Heritage and Endangered Species Program of the MA Division of Fisheries & Wildlife (the "Division") for review pursuant to the Massachusetts Endangered Species Act (MESA) (MGL c.131A) and its implementing regulations (321 CMR 10.00).

Based on a review of the information that was provided and the information that is currently contained in our database, the Division has determined that this project, as currently proposed, **will not result in a prohibited Take of state-listed rare species, provided the Turtle Protection Plan and impact avoidance measures are implemented as proposed.** This determination is a final decision of the Division of Fisheries & Wildlife pursuant to 321 CMR 10.18. Any changes to the proposed project or any additional work beyond that shown on the site plans may require an additional filing with the Division pursuant to the MESA. This project may be subject to further review if no physical work is commenced within five years from the date of issuance of this determination, or if there is a change to the project.

Please note that this determination addresses only the matter of state-listed species and their habitats. If you have any questions regarding this letter please contact Melany Cheeseman, Endangered Species Review Assistant, at (508) 389-6357.

Sincerely,

Everose Schlüter, Ph.D.  
Assistant Director

cc: Sarah Barnum, BSC Group, Inc.

MASSWILDLIFE





# **Attachment A**

K137/L138 Mainline OPGW Installation Project  
Construction Phase  
Ayer, Massachusetts  
Notice of Intent

PROJECT NARRATIVE



## **1 INTRODUCTION**

BSC Group, Inc. (BSC) is filing this Notice of Intent (NOI) on behalf of the New England Power Company (NEP) for maintenance and improvement activities associated with the K137/L138 Transmission Line Right-of-Way (ROW) in Ayer, Massachusetts (the Project). The purpose of the Project is to refurbish portions of the line and install overhead optical ground wire (OPGW), from the Ayer Substation in Ayer, MA, to the Sandy Pond Substation in Ayer, MA, and on the L138W 115KV transmission line from the Pratts Junction Substation in Sterling, MA, to the Sandy Pond Substation in Ayer, MA. In order to support the upgrades, various maintenance and improvement activities will be required, including structure replacements, access road widening and improvement, and overhead work at existing structures. Maintenance activities are necessary to allow NEP to continue to provide reliable and safe electrical service across the region. This NOI is being submitted in accordance with the Massachusetts Wetlands Protection Act (M.G.L. Ch.131, S.40) (WPA), implementing regulations (310 CMR 10.00), and the Town of Ayer General Bylaws: Wetland Protection Article, and Regulations for Administering the town of Ayer Wetland Bylaw (the “Ayer Wetland Bylaw”).

Activities proposed as part of the Project in Ayer include maintenance and improvement activities at sixty-two (62) existing structures along the K137/L138 Line, twenty-six (26) of which are located within jurisdictional Wetland Resource Areas or Buffer Zones. Work is proposed within Bordering Vegetated Wetlands (BVW), 100-ft Buffer Zone to BVW, 200-ft Riverfront Area (RA), FEMA 100-Year Floodplain/Bordering Land Subject to Flooding (BLSF), Land Under Water (LUW), Areas of Critical Environmental Concern (ACEC), and Natural Heritage Endangered Species Program (NHESP) Priority/Estimated Habitat. Activities are also proposed within the locally regulated 50-ft No Disturb Zone and 100-ft Buffer to Vernal Pools. Stream crossings (spanning bank) are required for access to and work set up at structures.

The proposed work includes structure replacements, access road widening and improvements, general utility maintenance at existing structures, mowing and minor grading at work pads, and access road maintenance and improvements. Specifically, the subject of the NOI includes the following activities:

**Table 1:** Activities subject of the NOI

<b>Activity</b>	<b>Structure #</b>	<b>Resource Area(s) Impacted</b>
Replace six (6) direct embed structures with Caisson supported structures (with a larger structure footprint).	2 (Tap), 14, 14B, 8, 3, & 2.	BVW, 100-ft Buffer Zone, 50-ft No Disturb Zone, NHESP Habitat, ACEC.
Permanent access road widening and improvements to access three (3) structures.	18/19 & 7.	100-ft Buffer Zone, 50-ft No Disturb Zone, ACEC & NHESP Habitat.
Temporary access road matting or temporary stone to access eight (8) structures within NHESP Habitat and jurisdictional resource areas.	2 (Tap), 23 – 26, 1, 2 & 25	100-ft Buffer Zone, 50-ft No Disturb Zone, ACEC & NHESP Habitat.
Grading of work pads at two (2) structures.	13 & 7.	100-ft Buffer Zone.

Portions of the proposed Project can be considered exempt maintenance, in accordance with *310 CMR 10.02(2)(a)(2)*, and the Ayer Wetlands Bylaw (Section 4). This NOI serves as notice to the Conservation Commission of the following **exempt maintenance activities**:

<b>Activity</b>	<b>Structure #</b>	<b>Resource Area(s) Impacted</b>
General maintenance and improvements (overhead work to install OPGW and replace sections of conductor)	All structures	BVW, 100-ft Buffer Zone, 200-ft RA, 50-ft No Disturb Zone, BLSF, NHESP Habitat and ACEC.
Removal of six (6) existing structures	2 (Tap), 15, 15B, 8, 3 & 2.	BVW, 100-ft Buffer Zone, 200-ft RA, LUW, 50-ft No Disturb Zone, NHESP Habitat and ACEC.
Replacement of four (4) direct embed structures (no change in structure footprint).	5, 8, 10 & 14A.	BVW, 100-ft Buffer Zone, 200-ft RA, and 50-ft No Disturb Zone.
Routine vegetation management (mown work envelopes and access) at all structures. Mowing is not anticipated in BVW, as temporary construction matting will be used.	All structures	BVW, 100-ft Buffer Zone, 200-ft RA, 50-ft No Disturb Zone, NHESP Habitat and ACEC.
Use of temporary construction matting within BVW (for access and work pads) to thirteen (13) structures.	3, 4, 5, 8, 9, 14B, 12, 17, 21, 22, 28, 36 & 38.	BVW.

Access to structures within or across BVW will be achieved using temporary construction mats. Please note that construction mats associated with utility projects are regulated by the Comprehensive Water Quality Certification for Utility Maintenance between NEP and the Massachusetts Department of Environmental Protection (MassDEP), which provides permit coverage under the 401 Water Quality Certification Program (X272791). As such, and as requested by MassDEP, construction mats are not included in the attached WPA Form 3. The approximate square footage of temporary impacts from construction matting within BVW is however included for reference within the cover letter and narrative. Please refer to **Attachment B** Environmental Resource Mapping for a depiction of the proposed maintenance and improvement activities, including the location of construction matting within BVW.

In total, the Project will result in approximately 116 square feet (sf) of impacts within BVW, associated with the enlarged footprint of two (2) caisson supported structures. However, three (3) existing structures within BVW/LUW are being permanently removed, each with a current footprint of 5.5 sf. Wetland replication is proposed at the 2:1 ration required by the Ayer Wetlands Bylaw, as described in Section 7 of this narrative.

In addition to impacts to BVW, Project activities will result in a total of 15,343 sf of permanent impacts within Buffer Zone (of which portions fall within the 50-ft No Build Zone). Permanent impacts are associated with access road improvements and structure replacements involving larger caisson foundations. All work is proposed within the existing disturbed ROW, and no new ROW will be required for this Project. Overall, the proposed activities are necessary to maintain reliable electric service, extend asset life, and adapt existing circuits to provide high speed communications between substations. Due to the nature and purpose of the proposed activities,

there are no practicable alternatives to the Project. Best Management Practices (BMPs) will be used to minimize impacts to resource areas, and all disturbed areas will be restored to pre-existing conditions to the extent practicable.

Due to the configuration of the existing transmission line infrastructure, it is not feasible to avoid all work within BVW, RA, LUW, Buffer Zones, and the 50-ft No Disturb Zone. Therefore, as part of this NOI, NEP is requesting a waiver from the Commission for work within the 50-foot No Disturb Zone, in accordance with the Regulations for Administering the town of Ayer Wetland Bylaw (Section 3 Waivers). Best Management Practices (BMPs) will be used to minimize impacts to resource areas, and all disturbed areas will be restored to pre-existing conditions to the extent practicable.

This Project qualifies as a Limited Project in accordance with the WPA regulations (310 CMR 10.53(3)(d)) which allows for the “*construction, reconstruction, operation and maintenance of... overhead public utilities...*” provided there are no alternatives, best available measures are used to minimize adverse effects during construction, and that vegetation and existing grades are substantially restored. Best Management Practices (BMPs), including sediment and erosion controls, will be implemented during construction, further minimizing the likelihood of adverse impacts to resource areas. NEP has performed an analysis of all possible alternatives, and the Project has been designed to avoid and minimize the potential for adverse impacts to wetland resource areas to the greatest extent practicable. Therefore, NEP is requesting the Ayer Conservation Commission issue an Order of Conditions to allow the proposed Project activities to proceed as described herein.

## **2 EXISTING CONDITIONS**

Project activities are proposed at twenty-six (26) structures within jurisdictional wetland resource areas along the K137/L138 Line ROW in Ayer. The Project occurs entirely within an existing, actively maintained utility ROW, with work proposed between the Nashua River and the Sandy Pond Substation in Ayer.

Vegetation within the ROW is regularly maintained for compatibility with the facilities. Much of the upland areas and wetlands within the ROW consist of scrub-shrub/herbaceous communities. Dominant land uses adjacent to the ROW primarily include forested land and suburban residential development.

### **2.1 Resource Area Summary**

BSC conducted both a desktop analysis (using MassGIS datalayers and publicly available data) and field investigations of the proposed Project area to assess permitting requirements pursuant to the WPA. Wetlands were delineated in August 2019, in accordance with the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, ed. J.S. Wakely, R.W. Lichvar, and C. C. Noble. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center (Version 2.0) and methodology described in the Massachusetts Department of Environmental Protection’s (MassDEP) *Handbook on Delineating Bordering Vegetated Wetlands* (Published in March 1995). A description of each wetland where permanent impacts are proposed is provided in the following sections.

Existing conditions, wetland resource areas, and buffer zones in relation to the proposed activities are shown on the Environmental Resources Map in **Attachment B**. Wetland Delineation Forms and Representative Photographs are provided in **Attachment C**.

### 2.1.1 *Bordering Vegetated Wetlands*

Project activities resulting in permanent impacts to BVW are proposed within two (2) wetlands. A description of the affected wetlands where work is proposed is provided below:

**AY-W17:** Predominantly scrub/shrub wetland with pockets of lower-growing, emergent vegetation. Dominant species include glossy false buckthorn (*Frangula alnus*), smooth arrowwood (*Viburnum dentatum*), purple loosestrife (*Lythrum salicaria*), white meadowsweet (*Spiraea alba*), jewelweed (*Impatiens capensis*), and cattail (*Typha latifolia*).

**AY-W24:** Mixed scrub/shrub and emergent wetland, associated with the impounded James Brook. Dominant species include a margin of red maple (*Acer rubrum*) and white pine (*Pinus strobus*), surrounding an emergent area of soft rush (*Juncus effusus*), goldenrods (*Solidago* sp.), jewelweed (*Impatiens capensis*), purple loosestrife (*Lythrum salicaria*), and wild carrot (*Daucus carota*).

### 2.1.2 *Riverfront Area*

Project activities proposed within the 200-foot RA include in-kind structure replacements and overhead maintenance activities at existing structures. In total, this will result in 0 sf permanent impacts within RA. RA is associated with the Nashua River and James Brook. The Nashua River crosses the K137/L138 ROW between Shirley and Ayer and is approximately 115-ft wide where it crosses the ROW. James Brook crosses the ROW at two locations; first, between structures 29 – 28 (where the brook is approximately 10 – 20-ft wide within the ROW), and then again by the Nashua Valley Rail Trail and structures 2 – 3 (where the brook is impounded by a beaver dam, with an approximate width of open water of 450-ft). The area of open water extends beyond the limit of bank and 200-ft RA.

In Ayer, RA extends 200-feet from the limits of the Inland Bank. RA within the Project limits consists of previously disturbed areas within the existing ROW, including managed vegetation and historically utilized access routes.

### 2.1.3 *Buffer Zones*

Activities are proposed within the 100-ft Buffer Zone, as well as the locally regulated 50-ft No Disturbance Zone. Due to the nature of the Project and location of existing utility infrastructure, it is not possible to completely avoid work within the 50-ft No Disturbance Zone. All Buffer Zone areas where work is proposed are within the existing, managed transmission line ROW, and historically have been regularly disturbed during maintenance activities. Vegetation within these Buffer Zones is consistent with active ROW management, dominated by low-growing herbaceous vegetation and grasses with areas of scrub/shrub. In total, 15,343 sf of permanent impacts are proposed within the 100-ft Buffer Zone, including 7,925 sf within the overlapping 50-ft No Build Zone.

#### 2.1.4 *Bordering Land Subject to Flooding (BLSF)*

As defined in the WPA regulations, BLSF is *an area with low, flat topography adjacent to and inundated by flood waters rising from creeks, rivers, streams, ponds or lakes. It extends from the banks of these waterways and water bodies; where a bordering vegetated wetland occurs, it extends from said wetland.* Portions of the proposed activities will occur within BLSF associated with the Nashua River and James Brook. According to the applicable Flood Insurance Rate Maps (FIRM) for these areas, (Map No. 25017C0203E, Effective June 04, 2010, and Map No. 25017C0204E, Effective June 04, 2010), Project activities are proposed within Zone AE with Base Flood Elevation (BFE) ~213-ft, and within Zone A without BFE. Activities proposed within BLSF are limited to overhead maintenance at existing structures, and temporary access road improvements (with matting or temporary stone). No permanent impacts are proposed within BLSF.

#### 2.1.5 *Land Under Water (LUW)*

Project activities proposed within LUW are limited to exempt maintenance activities, including the placement of temporary construction matting for access and a work pad to remove structure 3. No other impacts to LUW are proposed as part of the Project.

#### 2.1.6 *Vernal Pools*

In addition to the definition of the WPA, the Ayer Wetlands Bylaw defines Vernal Pools (VPs) as *“any confined basin or depression not occurring in existing lawns, gardens, landscaped areas or driveways which, at least in most years, holds water for a minimum of two continuous months during the spring and/or summer, contains at least 200 cubic feet of water at some time during most years, is free of adult predatory fish populations, and provides essential breeding and rearing habitat functions for amphibian, reptile or other vernal pool community species, regardless of whether the site has been certified by the Massachusetts Division of Fisheries and Wildlife”.* In addition, the Ayer Wetlands bylaw protects the adjacent upland resource area within 100-ft of the mean annual high-water line of a VP.

Three (3) VPs are located within the K137/L138 ROW in Ayer; **AY-VP1** is located south of Groton-Shirley Rd., between structures 36 – 35. **AY-VP2** and **AY-VP3** are located either side of the existing access road between structures 11 – 12 on the K137 Line, north of Mountain View Ave. Activities proposed within 100-ft of these VPs are limited to access along the existing access road. No permanent or new impacts are proposed within 100-ft of the VPs.

#### 2.1.7 *Other Resource Areas*

Portions of the Project are located within areas of NHESP Priority and Estimated Habitat. The majority of the Project work will be performed per the conditions and Best Management Practices as established in the Operation and Maintenance Plan (O&M Plan) which National Grid and the NHESP have agreed to. However, for certain Project activities in Priority and Estimated Habitat, NEP has coordinated with NHESP to develop Project-specific avoidance and



protection measures. Portions of the Project within NHESP Habitat are shown on the Environmental Resources Map in **Attachment B**. In total, Project activities are proposed at thirty-six (36) structures located within NHESP Priority and Estimated Habitat.

Portions of the Project are also located within the Petapawag and Squannassit ACECs. No other resource areas were identified within or near the Project area, including Outstanding Resource Waters (ORW), Zone II Wellhead Protection Areas, or Certified Vernal Pools.

### **3 PROPOSED ACTIVITIES**

#### *3.1 Project Need*

The main objective of this project is to replace the existing 3/8” EHS steel shield wire with OPGW, to provide high speed communications between Substations. The scope of work also includes improving asset conditions by replacing wood structures with woodpecker damage or other deteriorated conditions, since these poles would be at risk from the installation of the OPGW. Wood pole structures will be replaced with direct-embed light duty (LD) steel pole structures, and deadend structures will be replaced with engineered steel poles on concrete caisson foundations.

#### *3.2 Proposed Project Activities*

Project activities are expected to commence in Summer 2022, pending the receipt of all necessary permits and approvals. The anticipated construction sequence will occur as follows:

- Reflagging of wetlands by a qualified wetland scientist;
- Installation of soil erosion and sediment controls;
- Vegetation management;
- Installation of construction mats for access and work pads;
- Access road and work pad maintenance and improvements;
- Replacement of structures;
- Installation of OPGW;
- Completion of construction activities at structures;
- Removal of construction matting and erosion/sediment controls;
- Restoration of the ROW.

The following activities are proposed to address the Project need and to extend asset life:

- Structure Replacements:
  - Replacement of four (4) wood structures with direct embed steel structures, within jurisdictional resource areas (exempt maintenance activity);
  - Replacement of six (6) wood structures with self-supporting steel monopole structures, with concrete caisson foundations, all within jurisdictional resource areas **subject to the Commission’s review**.
- Access Road Improvements:
  - Mowing to form a work envelope at all work locations within the ROW (exempt maintenance activity);

- Temporary placement of construction mats for access and work within wetlands (exempt maintenance activity);
- Widening and improvement of pre-existing access roads as necessary to safely access structures (**activity subject to the Commission’s review**);
- Repair and filling of ruts in existing access roads, with no road widening required (exempt maintenance activity).
- Overhead Maintenance:
  - Replacement of existing shield wire with OPGW to provide high speed communications between substations and replacement of a section of conductor (exempt maintenance activity).

Permanent impacts are associated with the enlarged footprint of replacement Caisson structures and widening and improvements to existing access roads. The locations of temporary and permanent activities within wetland resource areas are shown on the Environmental Resources Map provided in **Attachment B**. Permanent and Temporary Project Impacts are summarized in Table 3-1, below.

**Table 3-1: Summary of Project Impacts**

Wetland Resource Area	Impacts (SF)		
	Permanent		Temporary
	Access Road	Poles	
BVW	0	116	94,101
BLSF*	20	0	4,872
RA (0-100 ft from Bank)	0	0	17,869
RA (100-200 ft from Bank)	0	0	1,666
100-ft Buffer Zone*	15,343		5,842
50-ft No Disturbance Zone*	7,925		3,438

\* Note that the 100-ft Buffer Zone and 50-ft No Disturb Zone overlap.

\*Access road improvements in BLSF include mowing, minor grading along the edges and refreshment of stone along exiting access roads. No volumetric fill is anticipated to be necessary for these activities. However, should more substantial repairs be required, NEP will excavate as needed in order to not create a substantial change in fill.

A discussion of the Project’s conformance with the performance standards established by the WPA, and Ayer Wetlands Bylaw and Regulations, is provided in Sections 5.0 and 6.0, respectively.

### 3.2.1 Install BMPs and ROW Mowing

Prior to initiating construction, the boundaries of wetlands will be clearly marked to prohibit unauthorized vehicular encroachment into wetland areas. To facilitate access within wetland areas, vegetation will be removed. Most vegetation required to be cleared will be mowed, and

young trees/shrubs will be cut at the base with the stumps retained. Any heavy accumulation of woody material will be removed from wetlands. If possible, small trees/saplings will simply be pushed over with the matting and the root ball left in place. All equipment will be staged on construction mats when working in wetlands, and no grubbing will be conducted grubbing in association with the clearing of vegetation.

Following the ROW vegetation mowing activities, proper erosion control devices, such as straw bales and siltation fencing, will be installed around work areas.

### *3.2.2 Wetland Replication*

Prior to construction activities within wetlands (resulting in the loss of 116 sf BVW), wetland replication areas will be constructed to provide a minimum 2:1 ratio of wetland replacement. Please refer to Section 7 of this narrative, and the plans in **Attachment B**, for wetland replication details including location, plantings, and soil information.

### *3.2.3 Access Road Re-establishment and Improvements*

Access roads along the ROW allow NEP and contractor personnel to construct, inspect, and maintain the existing and proposed transmission line facilities. After careful planning and field investigations, NEP has determined that existing and previously used access routes can be utilized to complete the majority of the proposed activities.

In some cases, existing access roads will require maintenance or upgrades, including widening to a safe 16-foot travel surface, to support the proposed construction activities. For example, gravel may be added to provide a stable and level surface for construction vehicles. It also may be necessary to reestablish roads that were used for the installation and maintenance of the existing lines, but which have become overgrown. To be conservative it is assumed that access roads will be maintained after they are improved or reestablished for the project (except in BVW and portions of NHESP Habitat). Temporary matted or stone access road will be installed within portions of sensitive NHESP Habitat. These temporary sections of access road will be removed once construction activities are complete.

### *3.2.4 Structure Replacements*

The existing K137/L138 Line primarily consists of direct embed structures. In several locations (where deadend structures are required or ground conditions necessitate a stronger structure foundation), existing structures will be replaced with steel structures supported by concrete caisson foundations and installed using the “Self-Supporting” construction method. All other structures will be replaced in-kind with steel direct embed structures, using the “Direct Embed” construction method. While the like-for-like replacement of wood pole for steel pole direct embed structures can be considered a routine maintenance activity, the replacement of existing direct embed structures with caisson supported structures will result in an increase in structure footprint and is therefore not considered an exempt utility maintenance activity under the WPA.

### *3.2.5 Optical Ground Wire (OPGW) Installation and Replacement of Overhead Conductor*

Following structure upgrades, the OPGW and conductor will be replaced using “Tension Stringing Methods” in accordance with Institute of Electrical and Electronics Engineers (“IEEE”) 524 and National Grid Transmission Specifications Document # SP.06.01.301. No ground disturbance is associated with overhead work, however, in order to install OPGW along the full length of the lines, access to every structure will be required, which will require the use of temporary construction matting in some locations.

## **4 ALTERNATIVES ANALYSIS**

A No-Action Alternative would not meet the requirements identified by Independent System Operator (ISO) compliance standards.

Under the proposed alternative (the Project) NEP will complete the proposed activities along the K137/L138 Line to address all known inadequacies at this time, with the appropriate access and infrastructure. Throughout design and permitting NEP has made extensive efforts to comprehensively assess constructability and avoid impacts, wherever feasible. Where impacts cannot be avoided, appropriate BMPs will be implemented. These efforts are referenced throughout this document, particularly in Section 7 and in **Attachment E**.

## **5 CONFORMANCE WITH PERFORMANCE STANDARDS OF THE WPA**

### *5.1 Limited Project Status*

The Project meets the criteria to be considered a Limited Project, as outlined in 310 CMR 10.53(3)(d) which allows for the construction, reconstruction, operation and maintenance of overhead public utilities that may, under certain circumstances, be permitted without meeting the performance standards of the WPA. Nevertheless, in accordance with general condition 310 CMR 10.53(3)(d)2, the proposed project will implement BMPs to ensure the adjacent resource areas are adequately protected, and impacts to the surrounding area are reduced, minimized, and restored to the maximum extent practicable. Project-specific BMPs are further discussed in Section 7.0.

### *5.2 Bordering Vegetated Wetland*

*[310 CMR 10.55(4)(a)] – Where the presumption set forth in 310 CMR 10.55(3) is not overcome, any proposed work in a BVW shall not destroy or otherwise impair any portion of said area.*

The majority of wetland impacts proposed as part of the Project are temporary in nature, associated with the use of temporary construction matting. Wetlands temporarily impacted by the use of construction mats for access will be restored to pre-existing conditions upon completion of the Project.

Permanent impacts to BVW in Ayer are minimal and include 116 sf of fill associated with structure replacements. However, the Project also proposes to remove three (3) existing structures within BVW, each with an approximate current footprint of 5.5 sf

(restoring 16.5 sf of BVW in total). Permanent impacts to BVW are localized to previously disturbed areas where existing structures are situated. Wetland replacement will be provided in excess of the required 2:1 ratio outlined by the Ayer Wetlands Bylaw. Therefore, no net loss of BVW is proposed by the Project.

*[310 CMR 10.55(4)(b)] – Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of up to 5,000 square feet of BVW when said area is replaced (in accordance with 310 CMR 10.55(4)(b)).*

As stated above, the proposed work in Ayer will result in approximately 116 sf loss of BVW. However, the Project also proposes to provide wetland replication in excess of the required 2:1 ratio, thus resulting in no net loss of BVW.

*[310 CMR 10.55(4)(c)] – Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of a portion of BVW when said portion has a surface area less than 500 square feet; said portion extends in a distinct linear configuration (“finger like”) into adjacent uplands; and in the judgment of the issuing authority it is not reasonable to scale down, redesign or otherwise change the proposed work so that it could be completed without loss of said wetland.*

Not applicable.

*[310 CMR 10.55(4)(d)] – Notwithstanding the provisions of 310 CMR 10.55(4)(a), (b) or (c), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.*

Portions of the Project are located within areas of NHESP Priority and Estimated Habitat. A majority of the Project work will be performed per the conditions and Best Management Practices as established in the Operation and Maintenance Plan (O&M Plan) which National Grid and the NHESP have agreed to. However, for certain Project activities in Priority and Estimated Habitat, NEP has coordinated with NHESP to devise suitable project alternatives which will avoid a “take” of rare species.

*310 CMR 10.55(4)(e)] – Any proposed work shall not destroy or otherwise impair any portion of BVW that is within an Area of Critical Environmental Concern designated by the Secretary of Environmental Affairs under M.G.L. c.21A, s.2(7) and 301 CMR 12.00.*

While portions of the Project are located within ACEC, no Project activities resulting in permanent impacts to BVW (structure replacements with larger caisson foundations), are located within ACEC. Project activities within ACEC are limited to exempt maintenance of existing structures, in-kind structure replacements, access road widening and improvements (outside of BVW), and temporary matting in BVW for access and work pads.

### 5.3 200-foot Riverfront Area

Activities within 200-foot Riverfront Area include overhead maintenance and the use of temporary construction matting for access. Both of these activities are considered exempt under 310 CMR 10.02(2)(a)(2) of the WPA.

*[310 CMR 10.58(4)(a)] – Protection of Other Resource Areas. The work shall meet the performance standards for all other resource areas within the riverfront area... When work in the riverfront area is also within the buffer zone to another resource area, the performance standards for the riverfront area shall contribute to the protection of the interests of M.G.L. c. 131 § 40 in lieu of any additional requirements that might otherwise be imposed on work in the buffer zone within the riverfront area.*

The Project has been designed to conform to the performance standards of other resource areas as described in this Notice of Intent.

*[310 CMR 10.58(4)(b)] – Protection of Rare Species. No project may be permitted within the riverfront area which will have any adverse effect on specified habitat site of rare wildlife or upland, vertebrate or invertebrate species, as identified in the procedures established under 310 CMR 10.59 or 10.37, or which will have any adverse effect on vernal pool habitat certified prior to the filing of the Notice of Intent.*

Not Applicable; while portions of RA are located within NHESP Habitat, activities within these areas are limited to overhead maintenance of existing structures and access along existing roads. No permanent impacts are proposed within RA.

*[310 CMR 10.58(4)(c)] – Practicable and Substantially Equivalent Economic Alternatives. There must be no practicable and substantially equivalent economic alternative to the proposed project with less adverse effects on the interests identified in M.G.L. c. 131 § 40.*

Section 4.0 summarizes the alternatives analysis conducted for this Project. Work within RA has been limited as much as possible and is proposed within the managed portion of the existing ROW. There are no practicable and substantially equivalent economic alternatives to the Project with less adverse effects on the interests identified in the Act.

*[310 CMR 10.58(4)(d)] – No Significant Adverse Impact. The work, including proposed mitigation measures, must have no significant adverse impact on the riverfront area to protect the interests identified in M.G.L. c. 131, § 40.*

The Project is proposed within a working ROW that is cleared and maintained in accordance with an approved Vegetation Management Plan and local, state, and federal law and regulation. Maintenance of existing transmission line ROWs occurs on a routine basis as necessary, also in compliance with local, state, and federal law and regulation. No permanent impacts to the RA are proposed as part of this Project, and areas effected by temporary impacts will be revegetated with native grass and herbaceous species. NEP recognizes that maintaining/reestablishing the natural vegetation within the RA is critical to protecting water supplies, providing flood control, preventing pollution and protecting wildlife and fisheries habitat.

Temporary impacts where unavoidable for installation of linear site-related utilities are allowed within the RA, provided the area is restored to its natural conditions (310 CMR 10.58 (4) (d) 1.a.). Drainage patterns and vegetative cover will generally be retained or re-established within RA following construction.

To offset construction impacts, protective measures and best management practices will be in place to avoid and minimize impacts. Consequently, the Project will not result in a significant adverse impact or impairment or reduce the capacity of the RA to provide important wildlife habitat functions.

*[310 CMR 10.58(5)] – Redevelopment Within Previously Developed Riverfront Areas*

Although all work will occur within an existing ROW that is actively managed, and previously existing access roads will be re-established and improved, NEP is not filing this NOI under the redevelopment provisions at MA WPA regulations 310 CMR 10.58(5). Access roads will not be located any closer to the river than existing or historical routes.

## **6 CONFORMANCE WITH THE PERFORMANCE STANDARDS OF THE AYER WETLAND PROTECTION REGULATIONS**

Due to the nature and purpose of the proposed activities, there are no practicable alternatives to the Project. However, no significant adverse impacts to wetland resource areas or values protected by the Ayer Bylaw are anticipated. The project will result in 116 sf permanent impacts to wetlands, associated with the enlarged footprint of two (2) replacement structures. No new impacts outside of previously disturbed areas are proposed. BMPs will be implemented to protect resource areas, and following the completion of work, the areas will be restored to pre-construction conditions to the extent practicable (see Section 7.0 of this narrative).

The proposed activities meet the performance standards of the Ayer Bylaw to the extent practicable. Requests for waivers in the Ayer Wetland Bylaw are described below.

Per Regulations for Administering the Town of Ayer Wetlands Bylaws; Section 3, NEP requests a waiver for activities within the 50-foot No Disturbance zone. Due to the locations of existing transmission line structures, there are no practicable alternatives that would avoid structure replacements within and access through the 50-ft No Disturbance Zone. Construction mats or the use LPG equipment will be required for access through BVW and the 50-ft No Disturbance Zone, minimizing temporary impacts to the area. Construction mats are a BMP approved by MassDEP and used by NEP to protect the wetland substrate, root systems/seed banks, and existing vegetation. Construction mats will be placed on top of existing vegetation and will be removed upon completion of work.

## **7 PROPOSED MITIGATION TECHNIQUES**

NEP has established procedures that are to be followed by all employees and its contractors for accessing sites and performing construction activities on transmission line ROWs. These procedures ensure that NEP's projects are completed in accordance with all applicable

environmental laws and regulations as well as with NEP policies and compliance objectives. NEP has an Environmental Department with full-time staff responsible to ensure company procedures are implemented in the field. The following sections provide a summary of BMPs that will be implemented for this Project. See **Attachment E** for an excerpt of National Grid's Environmental Guidance Document, Access, Maintenance and Construction Best Management Practices.

### *7.1 Avoidance, Minimization and Mitigation*

The Project has undertaken extensive measures to avoid and minimize impacts to wetland resource areas. Where impacts are unavoidable, mitigation is proposed.

An extensive alternatives analysis was conducted for the Project, both in Ayer and along the entire Project ROW. Once the complete list of needs at each structure was identified, NEP and their consultants reviewed the structure locations and subsequently proposed shifts or reconfigurations to some of the work pads to avoid wetland resource areas. Wherever feasible, and in accordance with engineering and safety requirements, these shifts were made to avoid or reduce resource area impacts. The use of existing upland access roads will avoid the need for new land disturbance to access structures. Although resource area impacts could not be avoided in all cases, several design alternatives were implemented to reduce impacts to the extent practicable. In many locations, the footprint of the proposed work reflects the maximum amount of space needed to create the work area. Thus, in some locations, the actual impact area will be much less than what is depicted.

The next key evaluation criterion of the alternatives analyses was to minimize adverse impacts to environmental resources where impacts could not be avoided. The Project provides the best solution for maintaining and improving existing transmission line assets while avoiding and/or minimizing adverse environmental impacts. Due to the existing configuration of transmission line infrastructure, for the majority of impacts, there is little alternative to the location or scope of the proposed activities. In sum, there is no practicable alternative to the Project that would have less adverse impacts on the aquatic environment.

### *7.2 Wetland Replication*

In total, the Project will result in approximately 116 square feet (sf) of impacts within BVW, associated with the enlarged footprint of two caisson supported structures. However, three (3) existing structures within BVW are being permanently removed, each with a current footprint of approximately 5.5 sf (restoring 16.5 sf of BVW in total). In particular, the removal of existing structure 3 (located within LUW, in the beaver-impounded portion of James Brook), and relocation of this structure to the western edge of wetland AY-W24, will provide a long-term benefit to the wetland, significantly reducing disturbance to LUW and the open water portions of the wetland during future maintenance activities.

To provide mitigation for the loss of BVW, 232 sf of wetland replication is proposed to connect to the existing wetland AY-W24. Wetland replication will be constructed in accordance with the following measures:



- Construction of the wetland replication area will be conducted under the supervision and guidance of a qualified wetland scientist.
- The wetland replication area will be excavated and backfilled to similar grades to that of the adjacent wetland, as necessary for hydrologic connectivity to the adjacent wetland.
- The newly excavated area will be filled with approximately 12-inches of B horizon soil (loam borrow re-handled and spread, reusing existing B horizon soils where possible). This will be topped with approximately 12-inches of wetland A horizon soil mixed with high organic weed free compost. A 3-inch layer of weed-free compost will be spread on top of the replication area. Field changes may occur under the guidance of a Professional Wetland Scientist.
- At least 4 native wetland shrubs (as available) will be planted within the mitigation area. Species suggested in the replication plan (**Attachment B**) may be adjusted based on available nursery stock.
- Following the establishment of final grades and shrub plantings, herbaceous plant plugs will be planted, and a wetland conservation seed mix will be applied. Upland conservation seed mix will be applied to adjacent graded uplands. Any exposed soils will be stabilized with straw mulch, or similar measure.
- Excess soil will be spread within the ROW in uplands outside of 100-foot Buffer Zone to BVW.

The replication area will be monitored for two (2) full growing seasons or until the following criteria have been met:

- 75% revegetation with native species.
- Any invasive species found during regular monitoring will be removed by hand and the vegetative plant material removed from the site.

Monitoring reports will be developed and submitted to the Conservation Commission after each growing season that will include percent cover of plant species (identifying native and invasive species), photographs, and a summary of recommendations if any criteria have not been met. Should criteria not be met by the end of the second growing season, a contingency plan will be developed with guidance from the Conservation Commission and a new timeline will be established.

### *7.2.1 Sediment and Erosion Controls*

Erosion and sediment control measures will be installed prior to the commencement of work. These controls will function to mitigate work-related erosion and sedimentation, and to serve as a physical boundary to delineate work areas to contain construction activities within approved locations.

Erosion and sediment controls will be inspected on a regular basis and maintained in working order until all disturbed areas are stabilized. Please refer to **Attachment E** for erosion and sediment control details. The locations of proposed sediment controls are depicted on the Environmental Constraints Map in **Attachment B**.

### *7.2.2 Construction Access*

Existing and historically utilized access routes are present within the ROW, and these will be used to the greatest extent practicable, as shown on the Environmental Resources Map in **Attachment B**. Temporary construction mats will be used to provide for a work platform and access within BVW. Construction mats are a typical BMP used by NEP to protect the wetland substrate from impacts and to protect the root systems/seed bank of existing vegetation. Construction mats will be placed on top of existing vegetation and will be removed upon completion of work. If necessary, the wetland area will be restored through seeding and stabilization.

### *7.2.3 Vehicle and Equipment Refueling and Maintenance*

To prevent impacts from hazardous materials, if refueling and maintenance in the field are necessary, vehicles and equipment will be brought to an access area greater than 100 feet away from sensitive environmental features and all reasonable environmental precautions will be taken. A paved area, such as a parking lot or roadway, is preferred to minimize the possibility of spill or release to the environment. Refueling precautions will include frequent checks for fuel spills, drips or seeps during the refueling operation. Vehicles are also equipped with spill kits to provide immediate response action, if needed. If it is not feasible to move equipment to a suitable area, special precautions will be employed to prevent oil or hazardous material release to the environment. These precautions include, but are not limited to, deployment of portable basins or similar secondary containment devices, use of ground covers such as plastic tarpaulins, and precautionary placement of floating booms on nearby surface water bodies.

### *7.2.4 Mowing and Invasive Species Management*

Prior to the commencement of work, vegetation within the ROW will be mowed to provide access for construction vehicles and personnel. During field investigations, it was noted that invasive plant species are currently present within the ROW. In order to prevent the spread of invasive species, mowed vegetation will be left on-site in its existing location to the extent practicable rather than removed where the seeds may be prone to spread. For safety purposes, any large woody debris will be chipped and removed from the site for disposal.

### *7.2.5 Materials Stockpiling*

Excavated material will be stockpiled near work area and used as backfill where possible. Materials will be stored in upland areas to the extent feasible. Soils will be stored on geotextile fabric and surrounded with sediment controls to prevent any sediment migration or inadvertent discharge into resource areas. Should materials need to be stored for an extended period of time stockpiles will be covered with tarps. Excavated materials will not be stored on construction matting. Following the backfilling operation, any remaining excavation spoils will be spread over upland areas or removed from the site.

### *7.2.6 Dewatering*

Where dewatering is necessary for structure replacements or caisson installation, discharge water will be pumped through a filter bag located in an upland area, surrounded with additional sediment filtration such as fiber rolls, bales, or other appropriate containment as necessary. Water will be discharged to an upland area and allowed to infiltrate. Under no circumstances will untreated water be pumped directly to a wetland. Dewatering will be conducted at a rate so that the discharge water does not cause scouring or erosion to upland areas, and any dewatering will be monitored at all times by the contractor performing the work.

#### *7.2.7 Concrete Washout*

Where concrete is being used, designated concrete washout areas will be provided in upland areas. Concrete washout water will not be deposited or discharged directly on the ground, in wetlands or waterbodies, or in catch basins. Concrete washouts will be located as far away from the resource areas as possible (exact location to be determined during construction). Following the completion of concrete pouring operations, the washouts will be disposed of off-site.

#### *7.2.8 Restoration of Disturbed Areas*

Disturbed areas will be returned to pre-construction elevations and conditions to the extent practicable. In areas of vegetated ground, disturbed areas will be seeded with an appropriate conservation seed mixture and/or mulched and allowed to re-vegetate. Seed mix specifications for wetland and upland areas are provided in **Attachment E**.

Temporary soil erosion and sediment control devices will be removed following stabilization of disturbed areas. Temporary construction mats will be removed from wetlands. In addition, construction debris and non-biodegradable controls will be removed from the site following construction and site stabilization.

## **8 CONCLUSION**

Although portions of the Project will occur within wetland resource areas, the proposed Project will:

- Minimize disturbance by utilizing an existing disturbed ROW to the greatest extent practicable;
- Maximize use of upland access roads to the greatest extent practicable;
- Utilize appropriate BMPs to protect wetland resource areas from sedimentation and soil disturbance during Project activities;
- Qualify as a Limited Project under the WPA provisions for public utilities [310 CMR 10.53(3)(d)].

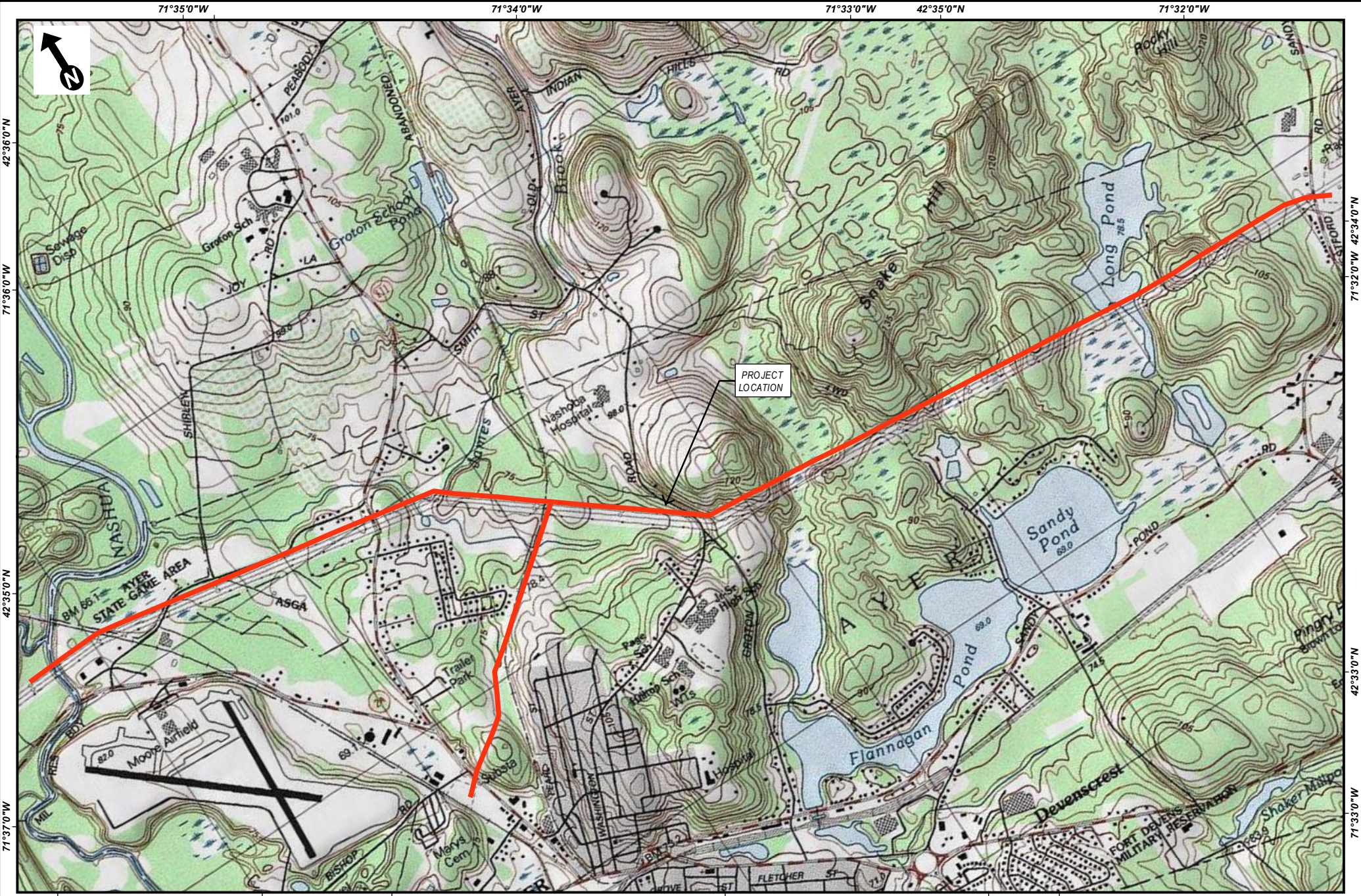
Therefore, NEP respectfully requests the Ayer Conservation Commission find the proposed project adequately protective of the public interests of the WPA and Ayer Bylaw, and issue an Order of Conditions for the proposed Project as currently designed, and a waiver for work within the 50-ft No-Disturbance Zone.

# Attachment B

K137/L138 Mainline OPGW Installation Project  
Construction Phase  
Ayer, Massachusetts  
Notice of Intent

USGS SITE LOCUS MAP  
ENVIRONMENTAL RESOURCES MAP



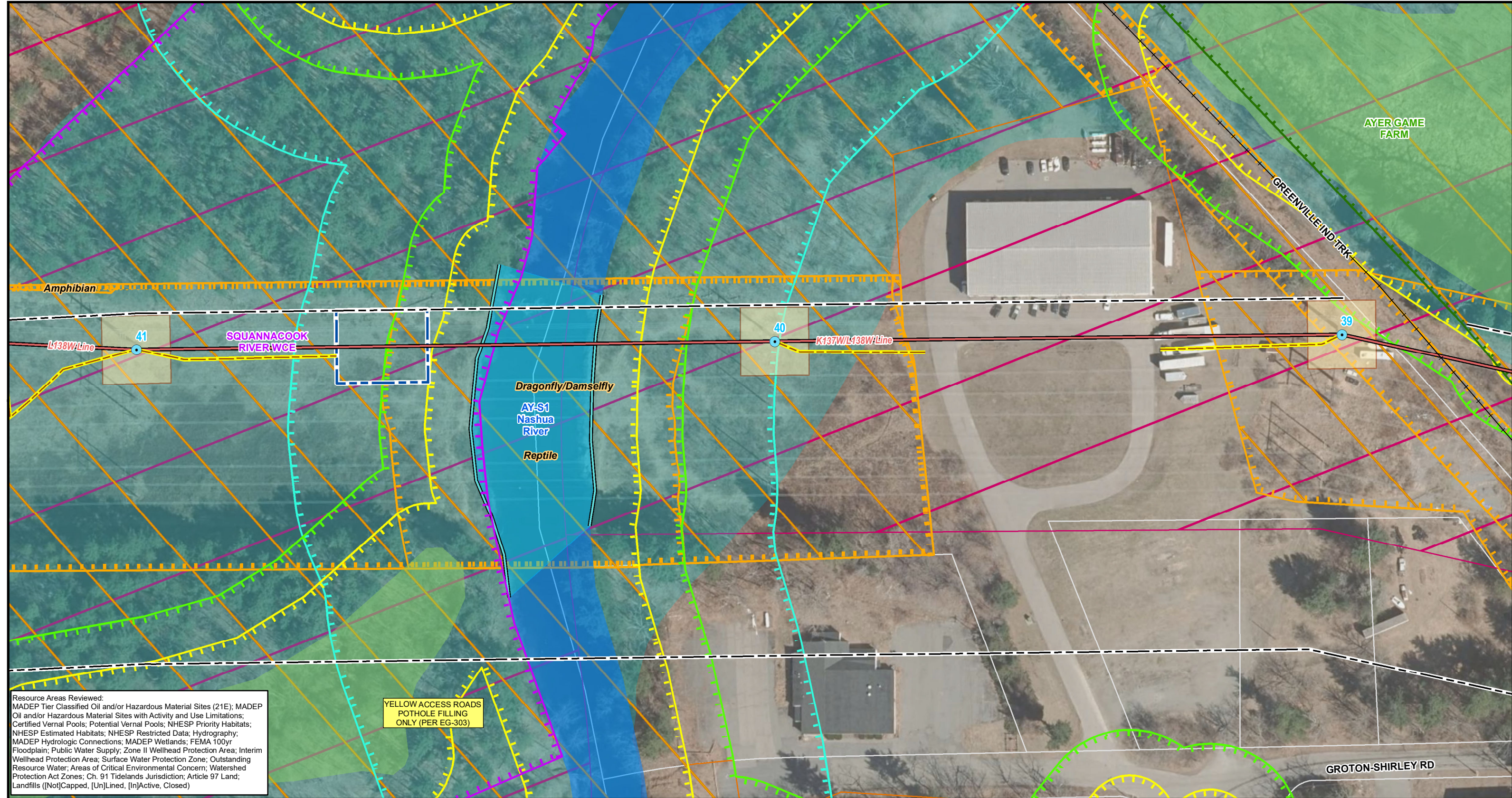


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1 inch = 2,000 feet  
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**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**  
**USGS Site Location Map**  
**Ayer, MA**

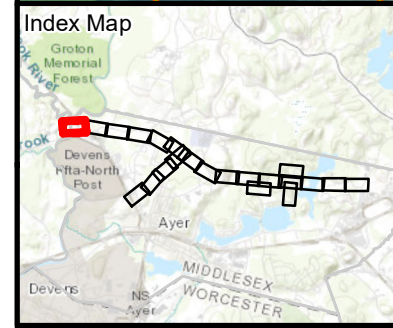
Source: Copyright ©  
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Geographic Society, Incubed





Resource Areas Reviewed:  
 MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Hydrography; MADEP Hydrologic Connections; MADEP Wetlands; FEMA 100yr Floodplain; Public Water Supply; Zone II Wellhead Protection Area; Interim Wellhead Protection Area; Surface Water Protection Zone; Outstanding Resource Water; Areas of Critical Environmental Concern; Watershed Protection Act Zones; Ch. 91 Tidelands Jurisdiction; Article 97 Land; Landfills ([Not]Capped, [Un]Lined, [In]Active, Closed)

YELLOW ACCESS ROADS  
 POT HOLE FILLING  
 ONLY (PER EG-303)



<p><b>Legend</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">●</span> Existing Structure</li> <li><span style="color: blue;">○</span> Overhead Work</li> <li><span style="color: black;">○</span> Replace Structure</li> <li><span style="color: orange;">●</span> Install Structure with Caisson</li> <li><span style="color: yellow;">●</span> Remove Structure</li> <li><span style="color: yellow;">—</span> Preferred Access Road</li> <li><span style="color: purple;">—</span> Alternate Access Road</li> <li><span style="color: red;">—</span> Widen &amp; Refresh Access with Stone</li> <li><span style="color: red;">—</span> Access in NHESP Habitat with TOY Restrictions</li> <li><span style="color: red;">—</span> Off-ROW Access Road (Improvements Require Environmental &amp; Real Estate Review)</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: red;">—</span> Sediment Controls</li> <li><span style="color: orange;">—</span> Construction Mats</li> <li><span style="color: orange;">—</span> Work Envelope*</li> <li><span style="color: orange;">—</span> Grade Work Envelope*</li> <li><span style="color: blue;">—</span> Pull Pad</li> <li><span style="color: blue;">—</span> Field Delineated Intermittent Stream</li> <li><span style="color: blue;">—</span> Field Delineated Perennial Stream/Bank</li> <li><span style="color: blue;">—</span> Estimated Perennial Stream/Bank</li> <li><span style="color: blue;">—</span> Field Delineated Stream Area*</li> <li><span style="color: green;">●</span> Field Delineated Wetland Flag</li> <li><span style="color: green;">—</span> Field Delineated Wetland Lines</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: green;">—</span> Field Delineated Wetlands*</li> <li><span style="color: yellow;">—</span> Field Delineated Vernal Pool*</li> <li><span style="color: blue;">—</span> MADEP Hydrologic Connections</li> <li><span style="color: green;">—</span> MADEP Wetlands*</li> <li><span style="color: blue;">—</span> MADEP Open Water*</li> <li><span style="color: yellow;">—</span> 50 ft No Disturb Zone</li> <li><span style="color: green;">—</span> 100ft Buffer to Wetlands &amp; Streams</li> <li><span style="color: cyan;">—</span> 200ft Riverfront Area</li> <li><span style="color: cyan;">—</span> FEMA 100yr Floodplain*</li> <li><span style="color: orange;">—</span> NHESP Restricted Data</li> <li><span style="color: orange;">—</span> NHESP Priority &amp; Estimated Habitats</li> </ul>	<p><i>*Indicates Layers Set to Transparency</i></p> <ul style="list-style-type: none"> <li><span style="color: pink;">—</span> Areas of Critical Environmental Concern</li> <li><span style="color: pink;">—</span> Town Boundary</li> <li><span style="color: yellow;">—</span> Potential Vernal Pools</li> <li><span style="color: black;">—</span> Fence Line</li> <li><span style="color: grey;">—</span> Stone Wall</li> <li><span style="color: grey;">—</span> Bike Trail</li> <li><span style="color: black;">—</span> Edge of ROW</li> <li><span style="color: red;">—</span> National Grid Property</li> <li><span style="color: red;">—</span> Overhead Lines</li> <li><span style="color: yellow;">—</span> Culvert</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: blue;">—</span> Access Gate</li> <li><span style="color: grey;">—</span> Catch Basin</li> <li><span style="color: black;">—</span> Railroad</li> <li><span style="color: grey;">—</span> Parcel Boundary</li> <li><b>Article 97 Lands</b></li> <li><span style="color: purple;">—</span> Private</li> <li><span style="color: green;">—</span> Dept. of Fish &amp; Game</li> </ul>
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Mapping reflects the worklist from 10/5/2021

1 inch = 100 feet

0 50 100 Feet

**K137/L138 SANDY POND TO PRATTS  
 JCT & AYER TAP TRANSMISSION  
 LINE OPGW INSTALLATION**

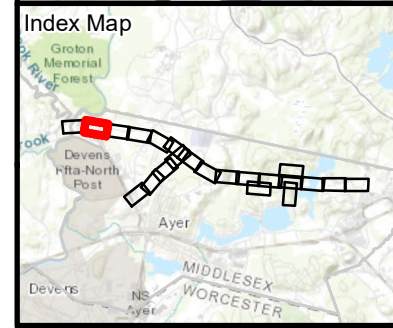
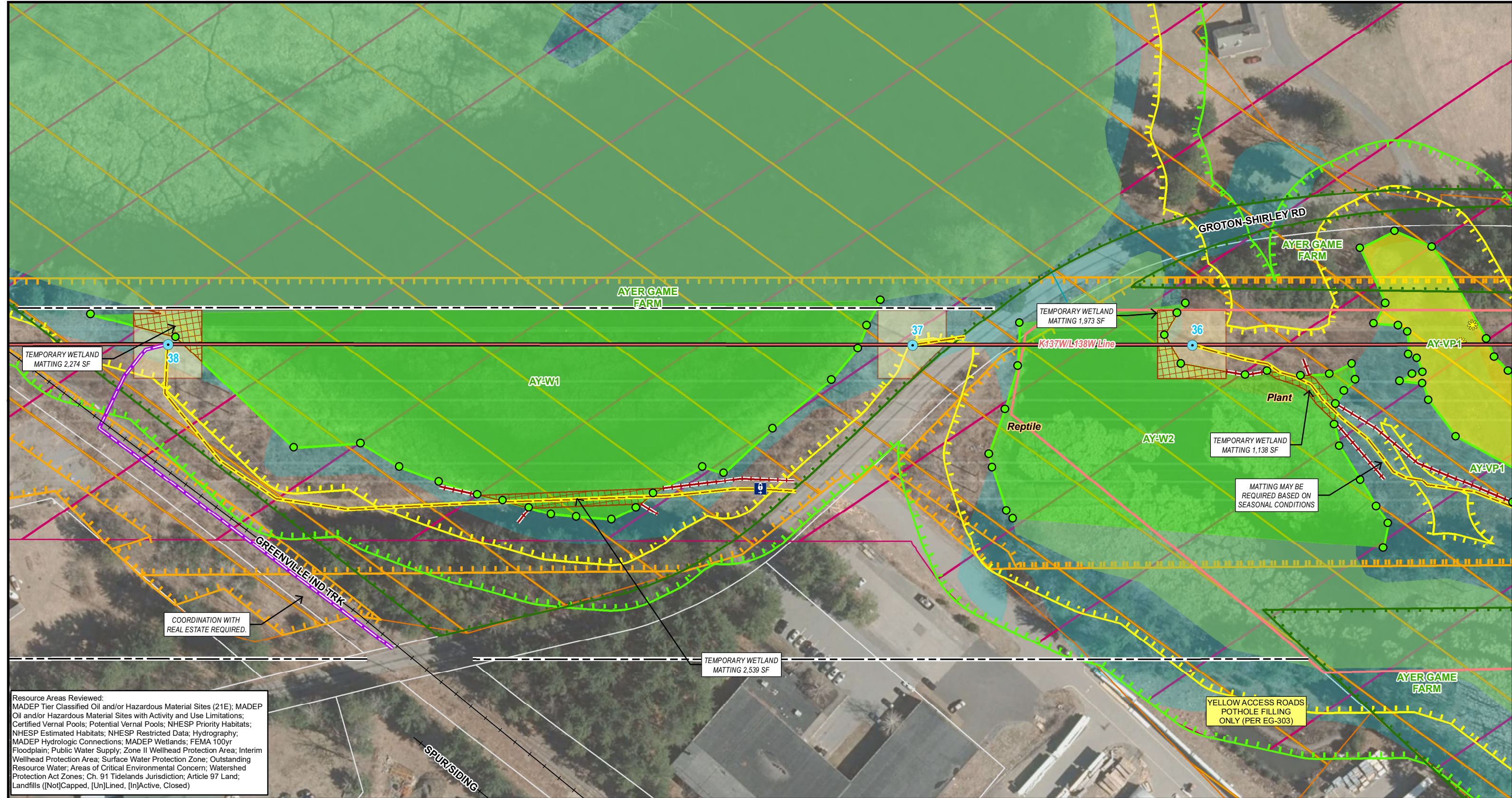
**Environmental Resources Map**

Shirley & Ayer, MA  
 Page 1 of 19

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Legend		*Indicates Layers Set to Transparency	
Existing Structure	Sediment Controls	Areas of Critical Environmental Concern	Access Gate
Overhead Work	Construction Mats	Potential Vernal Pools	Catch Basin
Replace Structure	Work Envelope*	Fence Line	Railroad
Install Structure with Caisson	Grade Work Envelope*	Stone Wall	Bike Trail
Remove Structure	Pull Pad	Edge of ROW	Parcel Boundary
Preferred Access Road	Field Delineated Intermittent Stream	National Grid Property	Dept. of Fish & Game
Alternate Access Road	Field Delineated Perennial Stream/Bank	Overhead Lines	
Widen & Refresh Access with Stone	Estimated Perennial Stream/Bank	Culvert	
Access in NHESP Habitat with TOY Restrictions	Field Delineated Stream Area*		
Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	Field Delineated Wetland Flag		
	Field Delineated Wetland Lines		
	Field Delineated Wetlands*		
	Field Delineated Vernal Pool*		
	MADEP Hydrologic Connections		
	MADEP Wetlands*		
	MADEP Open Water*		
	50 ft No Disturb Zone		
	100ft Buffer to Wetlands & Streams		
	200ft Riverfront Area		
	FEMA 100yr Floodplain*		
	NHESP Restricted Data		
	NHESP Priority & Estimated Habitats		

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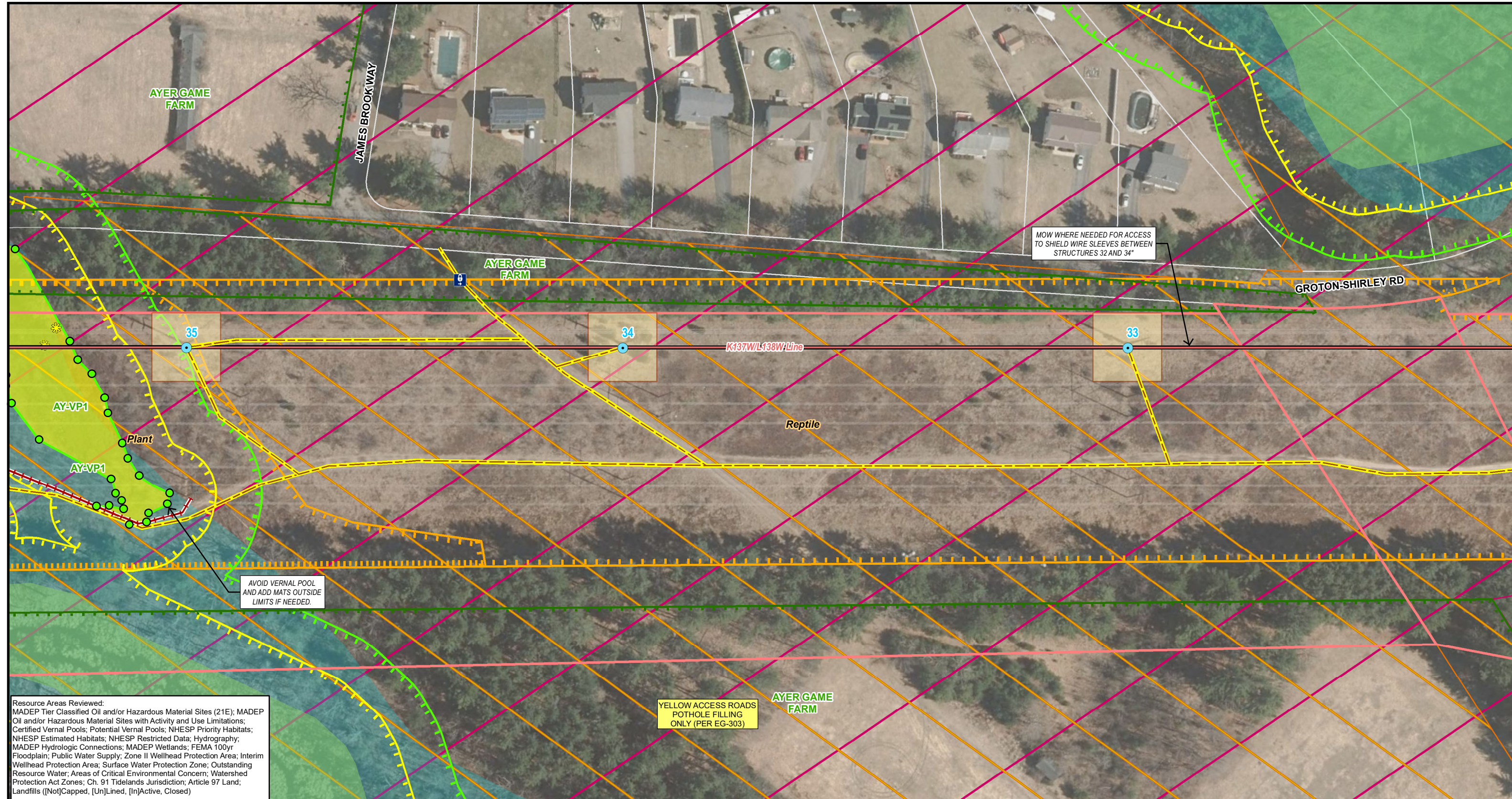
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**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

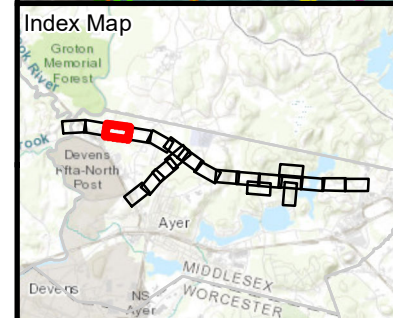
**Environmental Resources Map**

Ayer, MA  
Page 2 of 19

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



**Resource Areas Reviewed:**  
 MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Hydrography; MADEP Hydrologic Connections; MADEP Wetlands; FEMA 100yr Floodplain; Public Water Supply; Zone II Wellhead Protection Area; Interim Wellhead Protection Area; Surface Water Protection Zone; Outstanding Resource Water; Areas of Critical Environmental Concern; Watershed Protection Act Zones; Ch. 91 Tidelands Jurisdiction; Article 97 Land; Landfills ([Not]Capped, [Un]Lined, [In]Active, Closed)



Legend		*Indicates Layers Set to Transparency	
● Existing Structure	■ Sediment Controls	■ Field Delineated Wetlands*	■ Areas of Critical Environmental Concern
● Overhead Work	■ Construction Mats	■ Field Delineated Vernal Pool*	■ Town Boundary
● Replace Structure	■ Work Envelope*	■ MADEP Hydrologic Connections	● Potential Vernal Pools
● Install Structure with Caisson	■ Grade Work Envelope*	■ MADEP Wetlands*	✕ Fence Line
● Remove Structure	■ Pull Pad	■ MADEP Open Water*	○ Stone Wall
■ Preferred Access Road	■ Field Delineated Intermittent Stream	■ 50 ft No Disturb Zone	○ Bike Trail
■ Alternate Access Road	■ Field Delineated Perennial Stream/Bank	■ 100ft Buffer to Wetlands & Streams	— Edge of ROW
■ Widen & Refresh Access with Stone	■ Estimated Perennial Stream/Bank	■ 200ft Riverfront Area	■ National Grid Property
■ Access in NHESP Habitat with TOY Restrictions	■ Field Delineated Stream Area*	■ FEMA 100yr Floodplain*	■ Overhead Lines
■ Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	● Field Delineated Wetland Flag	■ NHESP Restricted Data	○ Culvert
	■ Field Delineated Wetland Lines	■ NHESP Priority & Estimated Habitats	

**K137/L138 SANDY POND TO PRATTS  
 JCT & AYER TAP TRANSMISSION  
 LINE OPGW INSTALLATION**

**Environmental Resources Map**

Ayer, MA  
 Page 3 of 19

Mapping reflects the worklist from 10/5/2021

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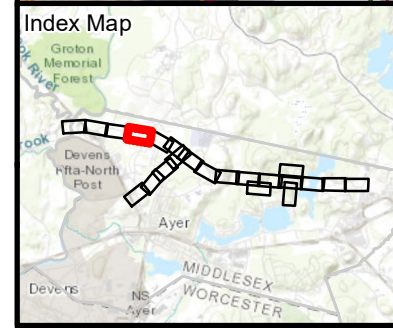
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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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**Resource Areas Reviewed:**  
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Legend		*Indicates Layers Set to Transparency	
● Existing Structure	■ Sediment Controls	■ Field Delineated Wetlands*	■ Areas of Critical Environmental Concern
● Overhead Work	■ Construction Mats	■ Field Delineated Vernal Pool*	■ Town Boundary
● Replace Structure	■ Work Envelope*	■ MADEP Hydrologic Connections	● Potential Vernal Pools
● Install Structure with Caisson	■ Grade Work Envelope*	■ MADEP Wetlands*	✕ Fence Line
● Remove Structure	■ Pull Pad	■ MADEP Open Water*	● Stone Wall
■ Preferred Access Road	■ Field Delineated Intermittent Stream	■ 50 ft No Disturb Zone	○ Bike Trail
■ Alternate Access Road	■ Field Delineated Perennial Stream/Bank	■ 100ft Buffer to Wetlands & Streams	— Edge of ROW
■ Widen & Refresh Access with Stone	■ Estimated Perennial Stream/Bank	■ 200ft Riverfront Area	■ National Grid Property
■ Access in NHESP Habitat with TOY Restrictions	■ Field Delineated Stream Area*	■ FEMA 100yr Floodplain*	■ Overhead Lines
■ Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	● Field Delineated Wetland Flag	■ NHESP Restricted Data	● Culvert
	■ Field Delineated Wetland Lines	■ NHESP Priority & Estimated Habitats	

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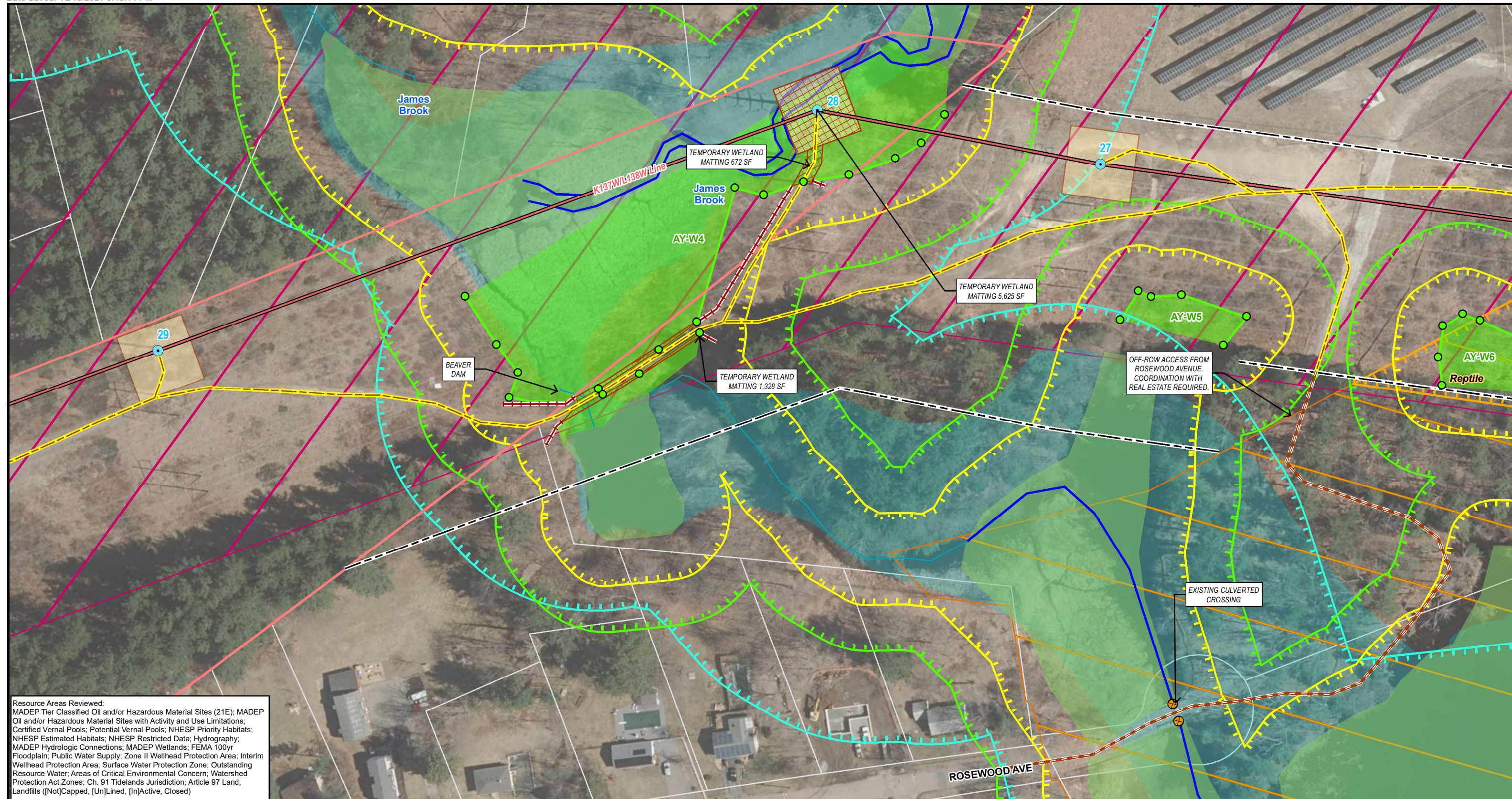
**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

**Environmental Resources Map**

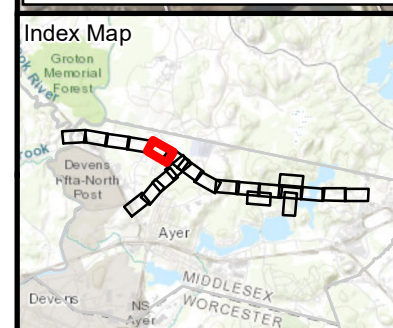
Ayer, MA  
Page 4 of 19

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Legend		*Indicates Layers Set to Transparency	
Existing Structure	Sediment Controls	Field Delineated Wetlands*	Areas of Critical Environmental Concern
Overhead Work	Construction Mats	Field Delineated Vernal Pool*	Access Gate
Replace Structure	Work Envelope*	MADEP Hydrologic Connections	Catch Basin
Install Structure with Caisson	Grade Work Envelope*	MADEP Wetlands*	Railroad
Remove Structure	Pull Pad	MADEP Open Water*	Parcel Boundary
Preferred Access Road	Field Delineated Intermittent Stream	50 ft No Disturb Zone	
Alternate Access Road	Field Delineated Perennial Stream/Bank	100ft Buffer to Wetlands & Streams	
Widen & Refresh Access with Stone	Estimated Perennial Stream/Bank	200ft Riverfront Area	
Access in NHESP Habitat with TOY Restrictions	Field Delineated Stream Area*	FEMA 100yr Floodplain*	
Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	Field Delineated Wetland Flag	NHESP Restricted Data	
	Field Delineated Wetland Lines	NHESP Priority & Estimated Habitats	
		Town Boundary	
		Potential Vernal Pools	
		Fence Line	
		Stone Wall	
		Bike Trail	
		Edge of ROW	
		National Grid Property	
		Overhead Lines	
		Culvert	

Mapping reflects the worklist from 10/5/2021

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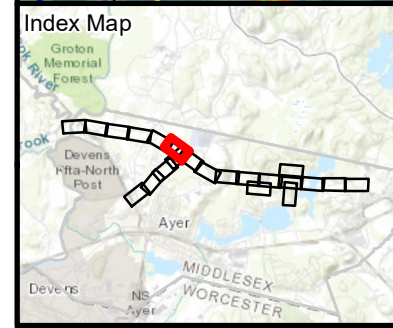
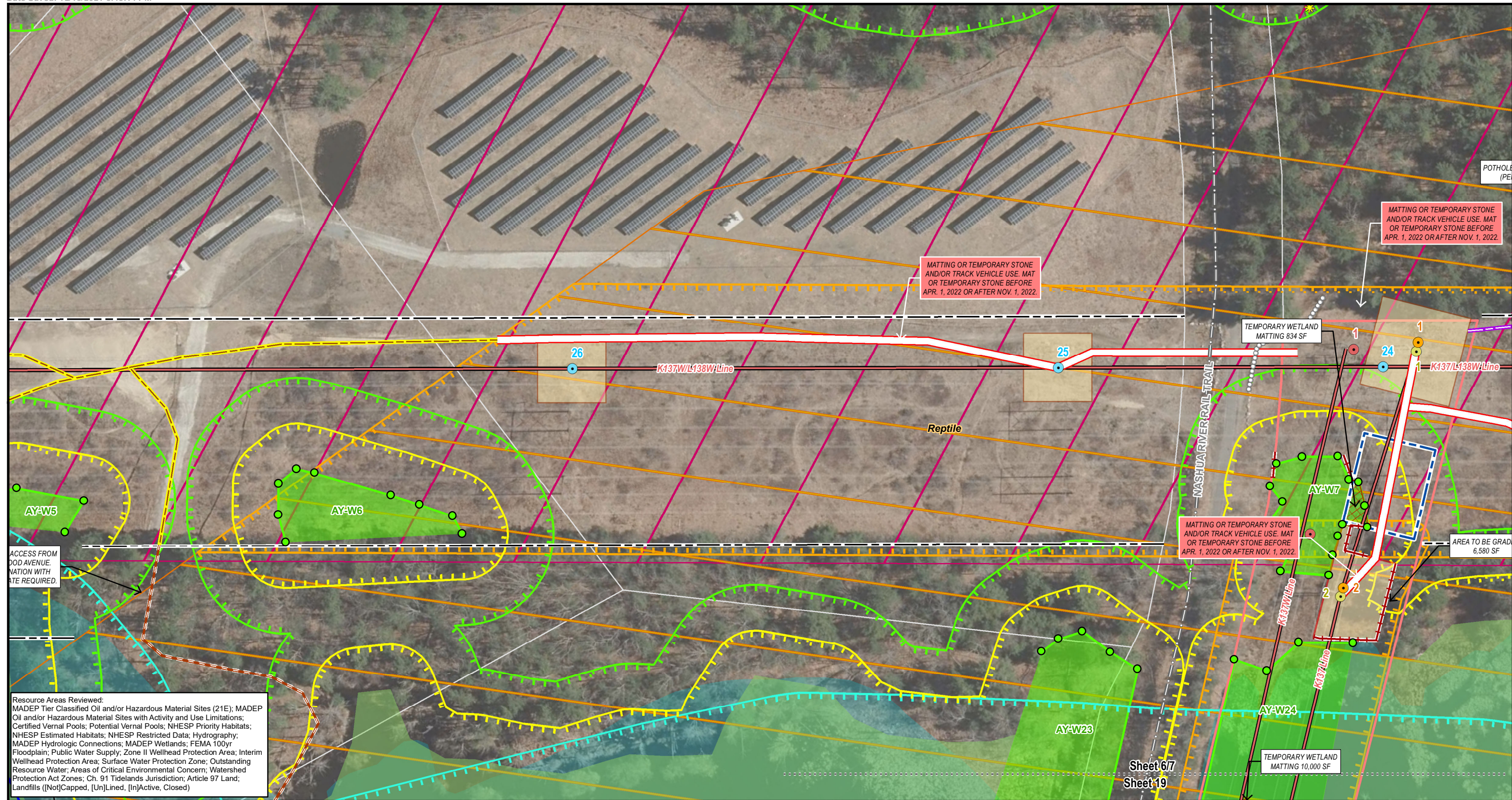
**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

**Environmental Resources Map**

Ayer, MA  
Page 5 of 19

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Legend		*Indicates Layers Set to Transparency	
● Existing Structure	■ Sediment Controls	■ Field Delineated Wetlands*	■ Areas of Critical Environmental Concern
● Overhead Work	■ Construction Mats	■ Field Delineated Vernal Pool*	■ Town Boundary
● Replace Structure	■ Work Envelope*	■ MADEP Hydrologic Connections	★ Potential Vernal Pools
● Install Structure with Caisson	■ Grade Work Envelope*	■ MADEP Wetlands*	✕ Fence Line
● Remove Structure	■ Pull Pad	■ MADEP Open Water*	○ Stone Wall
■ Preferred Access Road	■ Field Delineated Intermittent Stream	■ 50 ft No Disturb Zone	○ Bike Trail
■ Alternate Access Road	■ Field Delineated Perennial Stream/Bank	■ 100ft Buffer to Wetlands & Streams	— Edge of ROW
■ Widen & Refresh Access with Stone	■ Estimated Perennial Stream/Bank	■ 200ft Riverfront Area	— National Grid Property
■ Access in NHESP Habitat with TOY Restrictions	■ Field Delineated Stream Area*	■ FEMA 100yr Floodplain*	— Overhead Lines
■ Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	● Field Delineated Wetland Flag	■ NHESP Restricted Data	○ Culvert
	■ Field Delineated Wetland Lines	■ NHESP Priority & Estimated Habitats	

**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

**Environmental Resources Map**

Ayer, MA  
Page 6 of 19

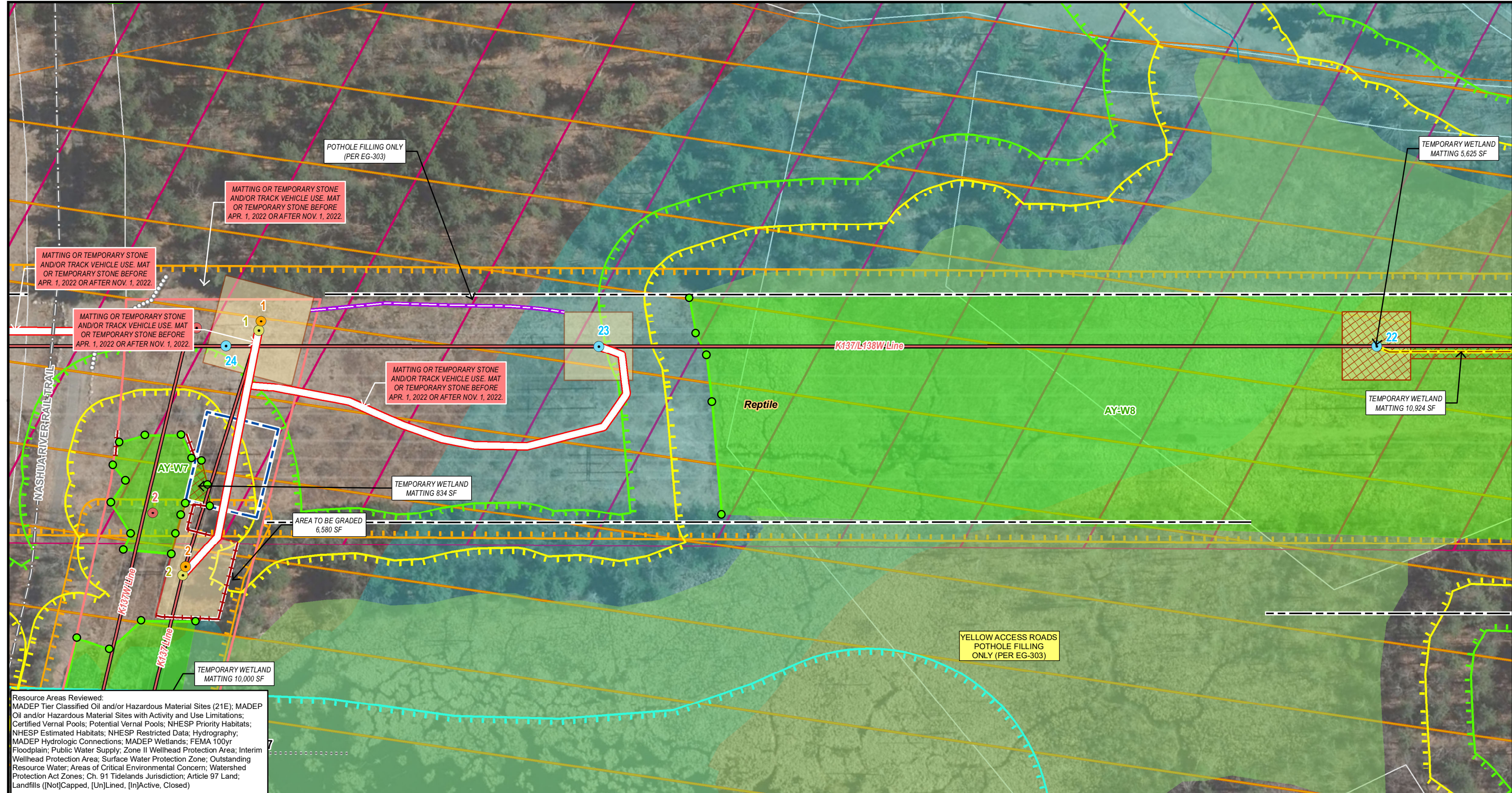
Mapping reflects the worklist from 10/5/2021

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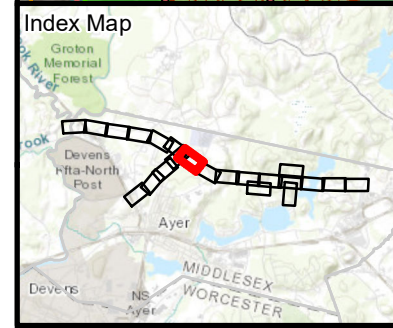
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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Resource Areas Reviewed:  
 MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Hydrography; MADEP Hydrologic Connections; MADEP Wetlands; FEMA 100yr Floodplain; Public Water Supply; Zone II Wellhead Protection Area; Interim Wellhead Protection Area; Surface Water Protection Zone; Outstanding Resource Water; Areas of Critical Environmental Concern; Watershed Protection Act Zones; Ch. 91 Tidelands Jurisdiction; Article 97 Land; Landfills ([Not]Capped, [Un]Lined, [In]Active, Closed)



**Legend**

<ul style="list-style-type: none"> <li>Existing Structure</li> <li>Overhead Work</li> <li>Replace Structure</li> <li>Install Structure with Caisson</li> <li>Remove Structure</li> <li>Preferred Access Road</li> <li>Alternate Access Road</li> <li>Widen &amp; Refresh Access with Stone</li> <li>Access in NHESP Habitat with TOY Restrictions</li> <li>Off-ROW Access Road (Improvements Require Environmental &amp; Real Estate Review)</li> </ul>	<ul style="list-style-type: none"> <li>Sediment Controls</li> <li>Construction Mats</li> <li>Work Envelope*</li> <li>Grade Work Envelope*</li> <li>Pull Pad</li> <li>Field Delineated Intermittent Stream</li> <li>Field Delineated Perennial Stream/Bank</li> <li>Estimated Perennial Stream/Bank</li> <li>Field Delineated Stream Area*</li> <li>Field Delineated Wetland Flag</li> <li>Field Delineated Wetland Lines</li> </ul>	<ul style="list-style-type: none"> <li>Field Delineated Wetlands*</li> <li>Field Delineated Vernal Pool*</li> <li>MADEP Hydrologic Connections</li> <li>MADEP Wetlands*</li> <li>MADEP Open Water*</li> <li>50 ft No Disturb Zone</li> <li>100ft Buffer to Wetlands &amp; Streams</li> <li>200ft Riverfront Area</li> <li>FEMA 100yr Floodplain*</li> <li>NHESP Restricted Data</li> <li>NHESP Priority &amp; Estimated Habitats</li> </ul>	<ul style="list-style-type: none"> <li>Areas of Critical Environmental Concern</li> <li>Town Boundary</li> <li>Potential Vernal Pools</li> <li>Fence Line</li> <li>Stone Wall</li> <li>Bike Trail</li> <li>Edge of ROW</li> <li>National Grid Property</li> <li>Overhead Lines</li> <li>Culvert</li> </ul>	<ul style="list-style-type: none"> <li>Access Gate</li> <li>Catch Basin</li> <li>Railroad</li> <li>Parcel Boundary</li> </ul>
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\*Indicates Layers Set to Transparency

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0 50 100 Feet

**K137/L138 SANDY POND TO PRATTS  
 JCT & AYER TAP TRANSMISSION  
 LINE OPGW INSTALLATION**

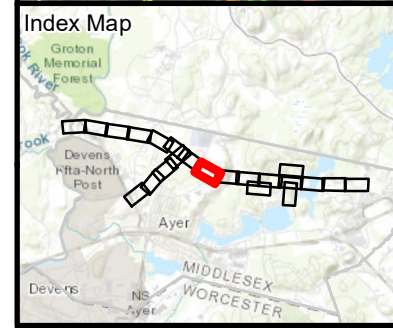
**Environmental Resources Map**

Ayer, MA  
 Page 7 of 19

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



Resource Areas Reviewed:  
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Legend		*Indicates Layers Set to Transparency	
● Existing Structure	■ Sediment Controls	■ Field Delineated Wetlands*	■ Areas of Critical Environmental Concern
● Overhead Work	■ Construction Mats	■ Field Delineated Vernal Pool*	■ Town Boundary
● Replace Structure	■ Work Envelope*	■ MADEP Hydrologic Connections	● Potential Vernal Pools
● Install Structure with Caisson	■ Grade Work Envelope*	■ MADEP Wetlands*	✕ Fence Line
● Remove Structure	■ Pull Pad	■ MADEP Open Water*	● Stone Wall
■ Preferred Access Road	■ Field Delineated Intermittent Stream	■ 50 ft No Disturb Zone	○ Bike Trail
■ Alternate Access Road	■ Field Delineated Perennial Stream/Bank	■ 100ft Buffer to Wetlands & Streams	— Edge of ROW
■ Widen & Refresh Access with Stone	■ Estimated Perennial Stream/Bank	■ 200ft Riverfront Area	■ National Grid Property
■ Access in NHESP Habitat with TOY Restrictions	■ Field Delineated Stream Area*	■ FEMA 100yr Floodplain*	■ Overhead Lines
■ Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	● Field Delineated Wetland Flag	■ NHESP Restricted Data	● Culvert
	■ Field Delineated Wetland Lines	■ NHESP Priority & Estimated Habitats	
		■ Catch Basin	
		■ Railroad	
		■ Parcel Boundary	

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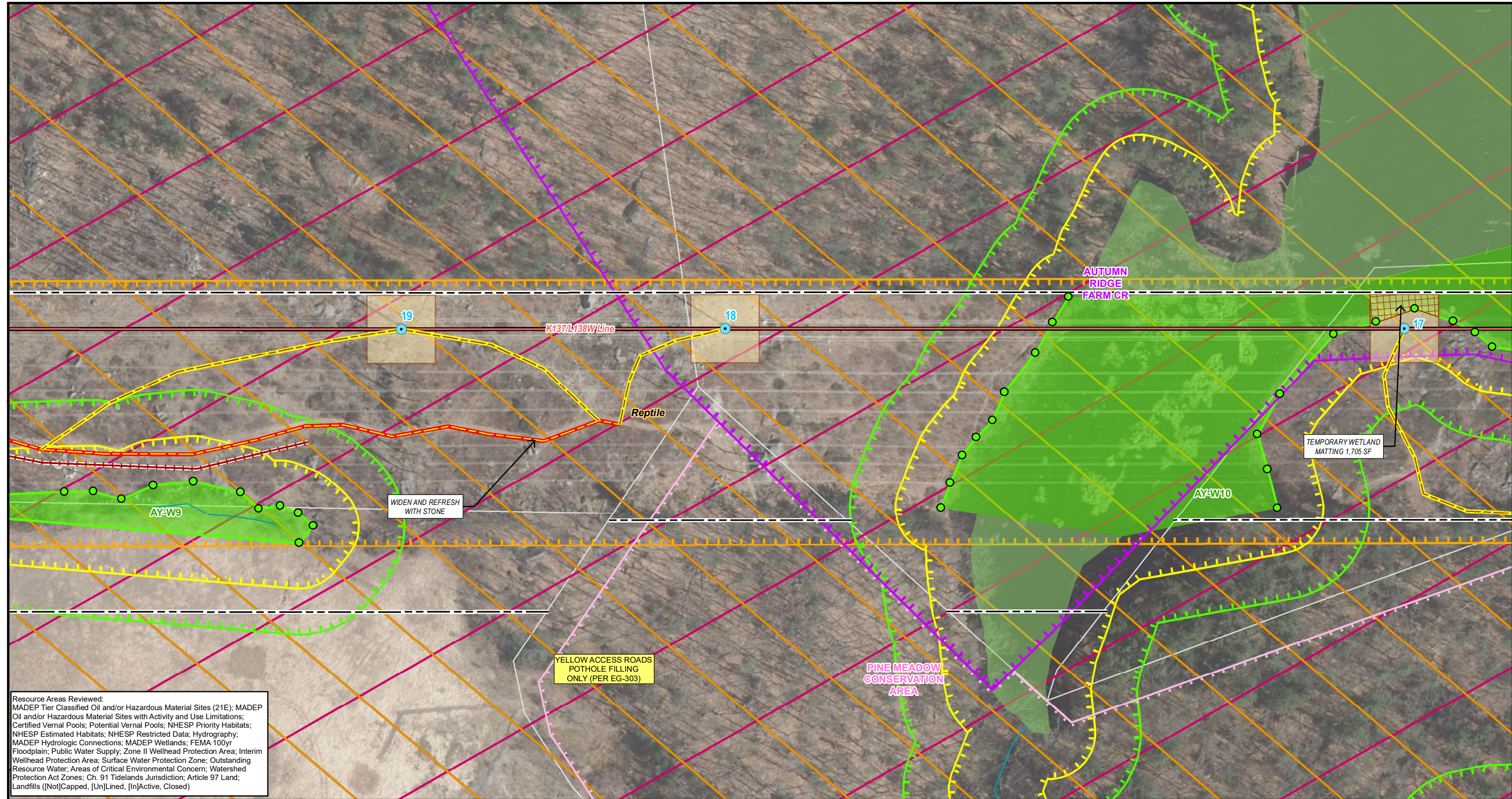
**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

**Environmental Resources Map**

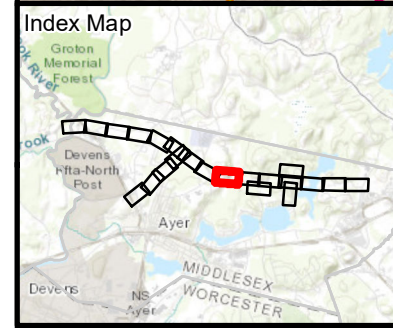
Ayer, MA  
Page 8 of 19

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Resource Areas Reviewed:  
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Legend		*Indicates Layers Set to Transparency	
Existing Structure	Sediment Controls	Areas of Critical Environmental Concern	Access Gate
Overhead Work	Construction Mats	Town Boundary	Catch Basin
Replace Structure	Work Envelope*	Potential Vernal Pools	Railroad
Install Structure with Caisson	Grade Work Envelope*	Fence Line	Parcel Boundary
Remove Structure	Pull Pad	Stone Wall	Article 97 Lands
Preferred Access Road	Field Delineated Intermittent Stream	Edge of ROW	Private
Alternate Access Road	Field Delineated Perennial Stream/Bank	National Grid Property	
Widen & Refresh Access with Stone	Estimated Perennial Stream/Bank	Overhead Lines	
Access in NHESP Habitat with TOY Restrictions	Field Delineated Stream Area*	Culvert	
Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	Field Delineated Wetland Flag		
	Field Delineated Wetland Lines		
	Field Delineated Wetlands*		
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0 50 100 Feet

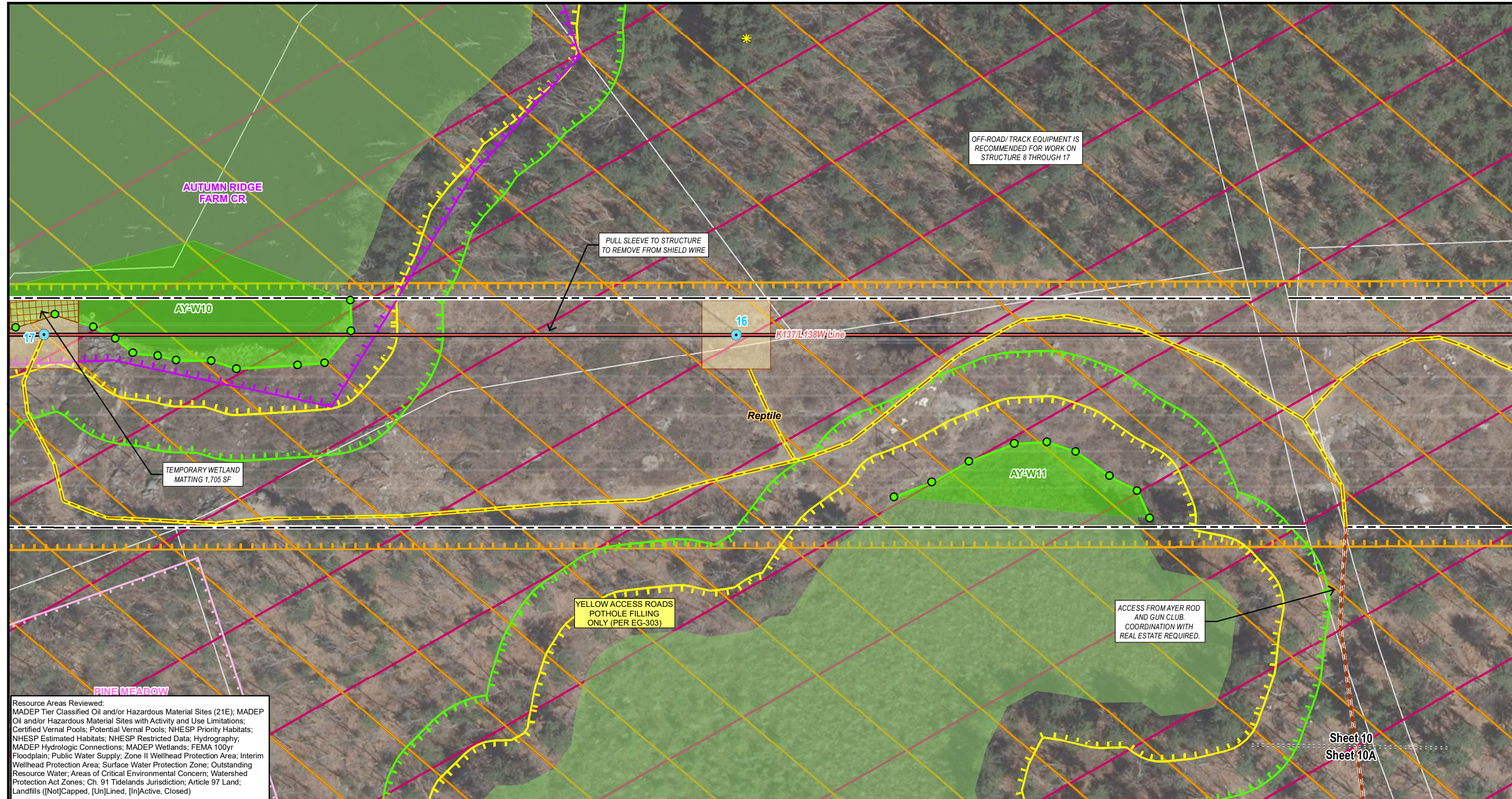
**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

**Environmental Resources Map**

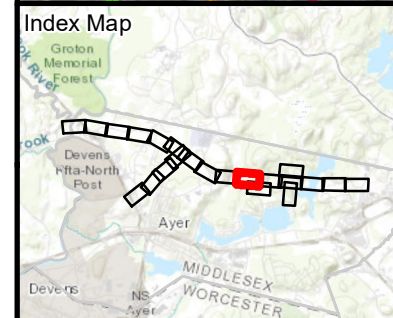
Ayer, MA  
Page 9 of 19

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community





**Resource Areas Reviewed:**  
 MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Hydrography; MADEP Hydrologic Connections; MADEP Wetlands; FEMA 100yr Floodplain; Public Water Supply; Zone II Wellhead Protection Area; Interim Wellhead Protection Area; Surface Water Protection Zone; Outstanding Resource Water; Areas of Critical Environmental Concern; Watershed Protection Act Zones; Ch. 91 Tidelands Jurisdiction; Article 97 Land; Landfills ([Not]Capped, [Un]Lined, [In]Active, Closed)



Legend		*Indicates Layers Set to Transparency	
● Existing Structure	■ Sediment Controls	■ Field Delineated Wetlands*	■ Areas of Critical Environmental Concern
● Overhead Work	■ Construction Mats	■ Field Delineated Vernal Pool*	■ Town Boundary
● Replace Structure	■ Work Envelope*	■ MADEP Hydrologic Connections	● Potential Vernal Pools
● Install Structure with Caisson	■ Grade Work Envelope*	■ MADEP Wetlands*	✕ Fence Line
● Remove Structure	■ Pull Pad	■ MADEP Open Water*	● Stone Wall
■ Preferred Access Road	■ Field Delineated Intermittent Stream	■ 50 ft No Disturb Zone	○ Bike Trail
■ Alternate Access Road	■ Field Delineated Perennial Stream/Bank	■ 100ft Buffer to Wetlands & Streams	— Edge of ROW
■ Widen & Refresh Access with Stone	■ Estimated Perennial Stream/Bank	■ 200ft Riverfront Area	■ National Grid Property
■ Access in NHESP Habitat with TOY Restrictions	■ Field Delineated Stream Area*	■ FEMA 100yr Floodplain*	■ Overhead Lines
■ Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	● Field Delineated Wetland Flag	■ NHESP Restricted Data	● Culvert
	■ Field Delineated Wetland Lines	■ NHESP Priority & Estimated Habitats	

**K137/L138 SANDY POND TO PRATTS  
 JCT & AYER TAP TRANSMISSION  
 LINE OPGW INSTALLATION**

**Environmental Resources Map**

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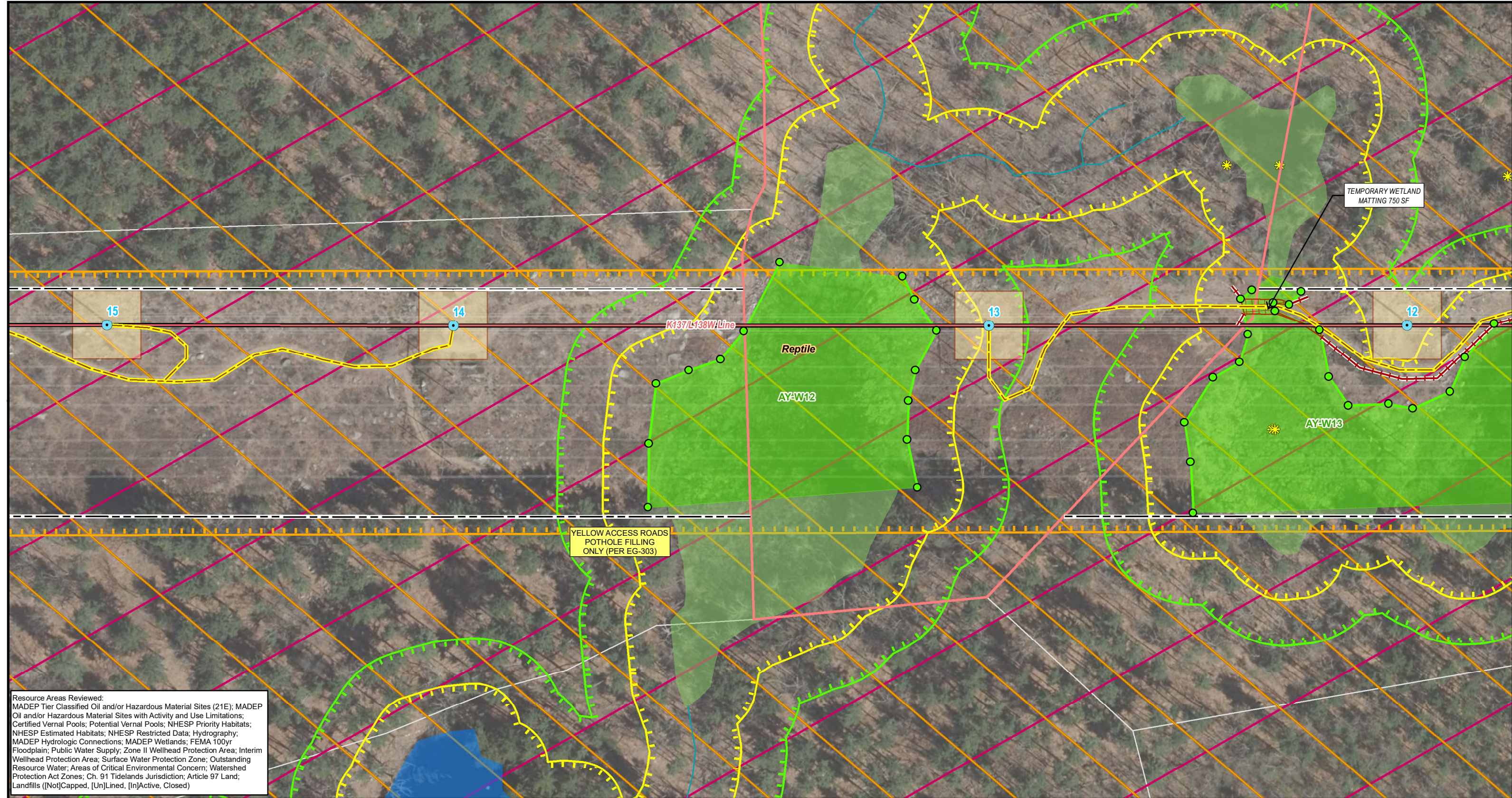
Mapping reflects the worklist from 10/5/2021

1 inch = 100 feet

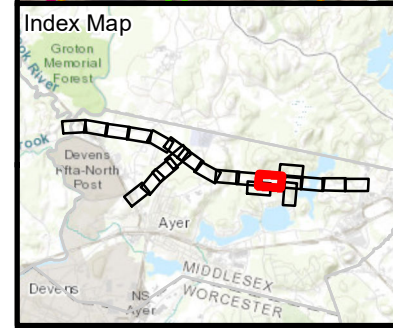
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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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**Resource Areas Reviewed:**  
 MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Hydrography; MADEP Hydrologic Connections; MADEP Wetlands; FEMA 100yr Floodplain; Public Water Supply; Zone II Wellhead Protection Area; Interim Wellhead Protection Area; Surface Water Protection Zone; Outstanding Resource Water; Areas of Critical Environmental Concern; Watershed Protection Act Zones; Ch. 91 Tidelands Jurisdiction; Article 97 Land; Landfills ([Not]Capped, [Un]Lined, [In]Active, Closed)



Legend		*Indicates Layers Set to Transparency	
Existing Structure	Sediment Controls	Areas of Critical Environmental Concern	Access Gate
Overhead Work	Construction Mats	Town Boundary	Catch Basin
Replace Structure	Work Envelope*	Potential Vernal Pools	Railroad
Install Structure with Caisson	Grade Work Envelope*	Fence Line	Parcel Boundary
Remove Structure	Pull Pad	Stone Wall	
Preferred Access Road	Field Delineated Intermittent Stream	Bike Trail	
Alternate Access Road	Field Delineated Perennial Stream/Bank	Edge of ROW	
Widen & Refresh Access with Stone	Estimated Perennial Stream/Bank	National Grid Property	
Access in NHESP Habitat with TOY Restrictions	Field Delineated Stream Area*	Overhead Lines	
Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	Field Delineated Wetland Flag	Culvert	
	Field Delineated Wetland Lines		
	Field Delineated Wetlands*		
	Field Delineated Vernal Pool*		
	MADEP Hydrologic Connections		
	MADEP Wetlands*		
	MADEP Open Water*		
	50 ft No Disturb Zone		
	100ft Buffer to Wetlands & Streams		
	200ft Riverfront Area		
	FEMA 100yr Floodplain*		
	NHESP Restricted Data		
	NHESP Priority & Estimated Habitats		

Mapping reflects the worklist from 10/5/2021

1 inch = 100 feet

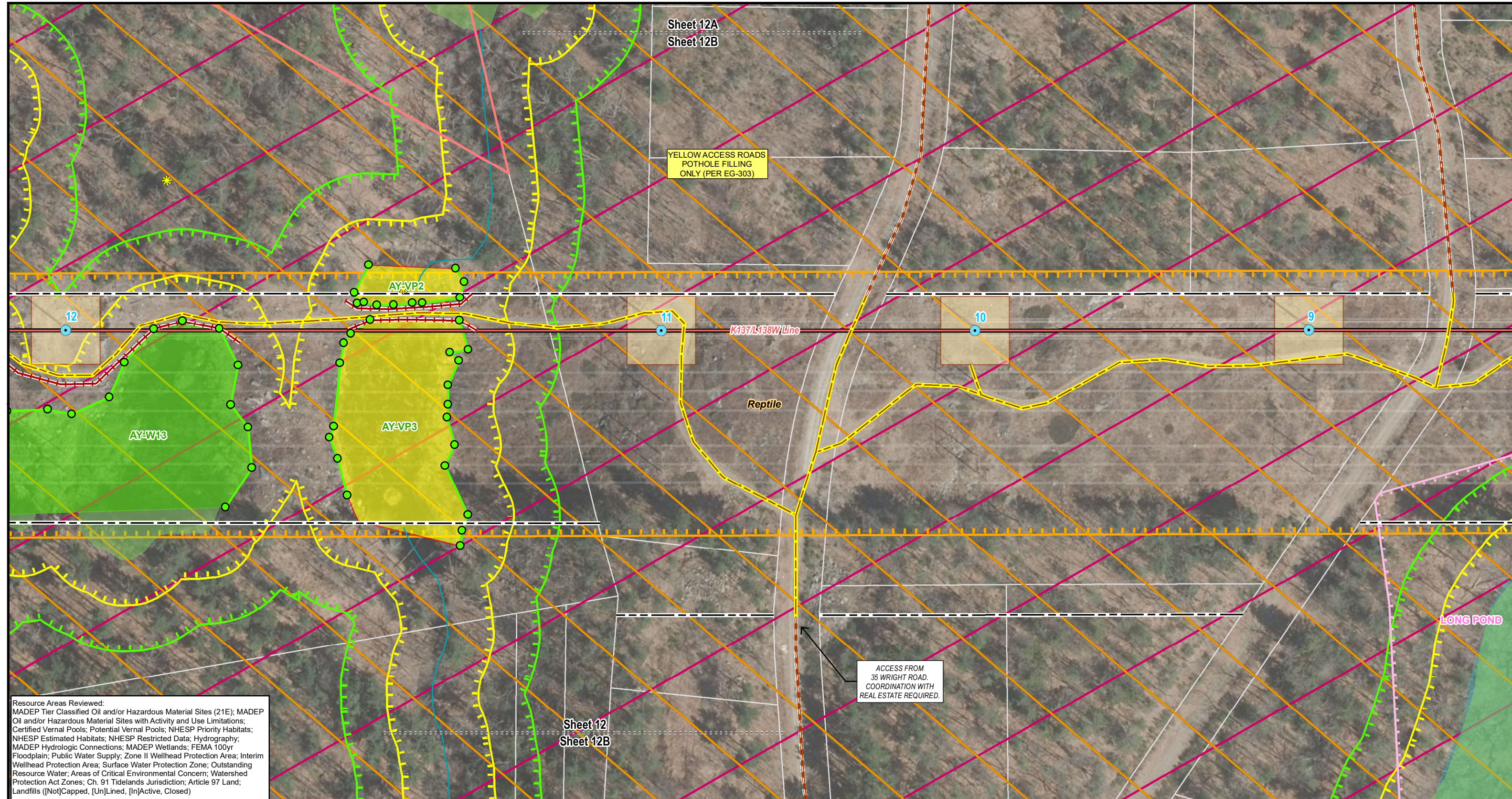
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**K137/L138 SANDY POND TO PRATTS  
 JCT & AYER TAP TRANSMISSION  
 LINE OPGW INSTALLATION**

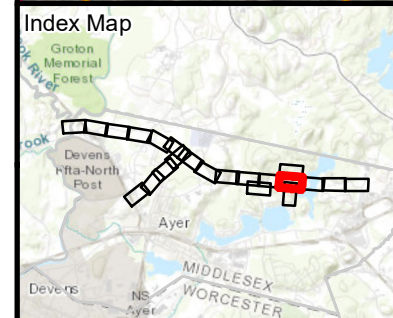
**Environmental Resources Map**

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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



Resource Areas Reviewed:  
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Legend		*Indicates Layers Set to Transparency	
Existing Structure	Sediment Controls	Areas of Critical Environmental Concern	Access Gate
Overhead Work	Construction Mats	Potential Vernal Pools	Catch Basin
Replace Structure	Work Envelope*	Fence Line	Railroad
Install Structure with Caisson	Grade Work Envelope*	Stone Wall	Parcel Boundary
Remove Structure	Pull Pad	Edge of ROW	Article 97 Lands
Preferred Access Road	Field Delineated Intermittent Stream	National Grid Property	Municipal
Alternate Access Road	Field Delineated Perennial Stream/Bank	Overhead Lines	
Widen & Refresh Access with Stone	Field Delineated Perennial Stream/Bank	Culvert	
Access in NHESP Habitat with TOY Restrictions	Field Delineated Stream Area*		
Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	Field Delineated Wetland Flag		
	Field Delineated Wetland Lines		
	Field Delineated Wetlands*		
	Field Delineated Vernal Pool*		
	MADEP Hydrologic Connections		
	MADEP Wetlands*		
	MADEP Open Water*		
	50 ft No Disturb Zone		
	100ft Buffer to Wetlands & Streams		
	200ft Riverfront Area		
	FEMA 100yr Floodplain*		
	NHESP Restricted Data		
	NHESP Priority & Estimated Habitats		

**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

**Environmental Resources Map**

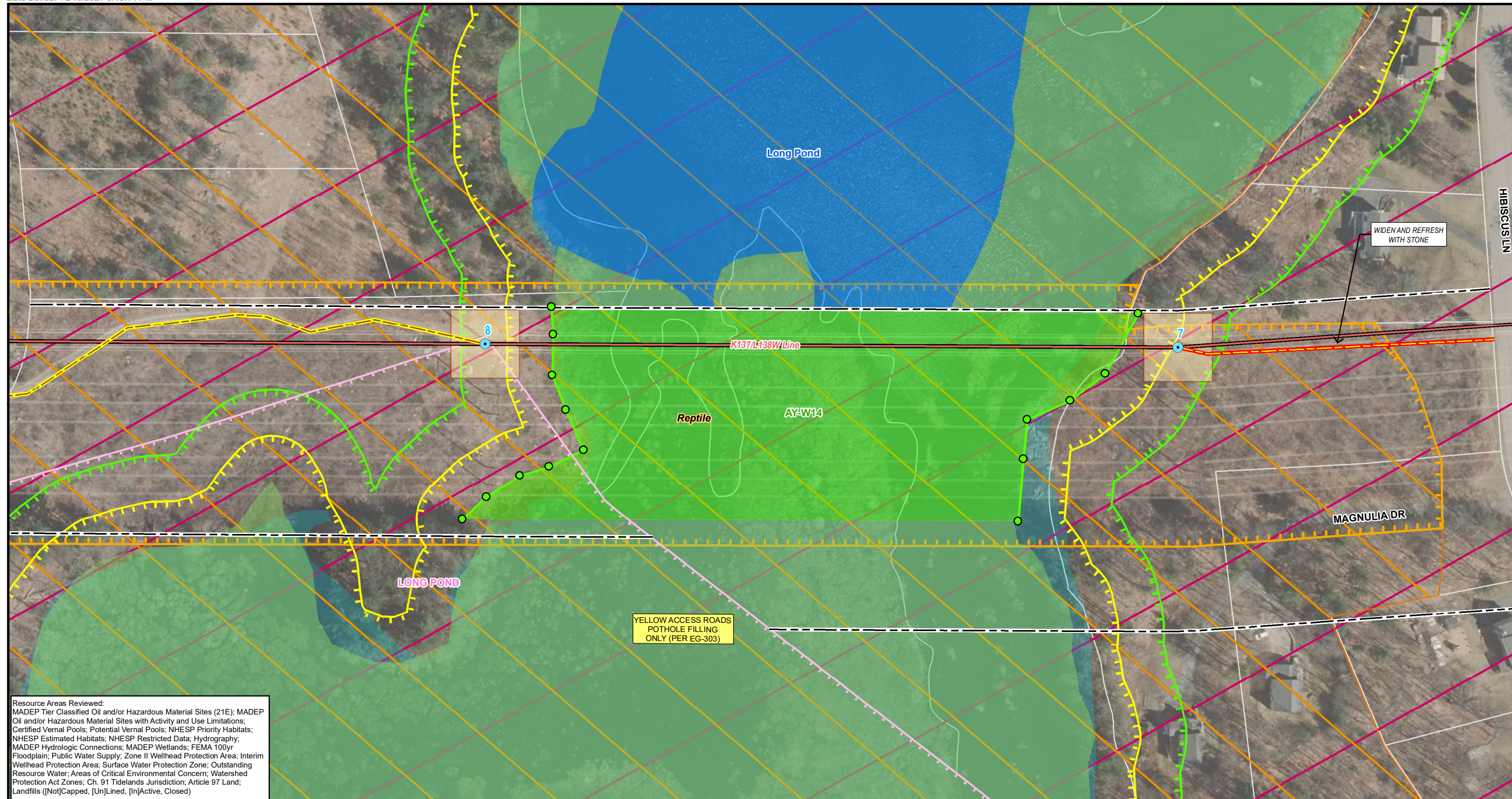
Ayer, MA  
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Mapping reflects the worklist from 10/5/2021

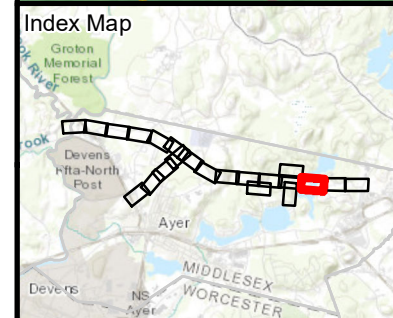
1 inch = 100 feet

0 50 100 Feet

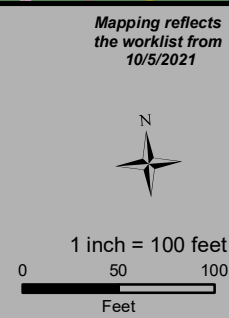
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



**Resource Areas Reviewed:**  
 MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Hydrography; MADEP Hydrologic Connections; MADEP Wetlands; FEMA 100yr Floodplain; Public Water Supply; Zone II Wellhead Protection Area; Interim Wellhead Protection Area; Surface Water Protection Zone; Outstanding Resource Water; Areas of Critical Environmental Concern; Watershed Protection Act Zones; Ch. 91 Tidelands Jurisdiction; Article 97 Land; Landfills ([Not]Capped, [Un]Lined, [In]Active, Closed)



Legend		*Indicates Layers Set to Transparency	
Existing Structure	Sediment Controls	Field Delineated Wetlands*	Areas of Critical Environmental Concern
Overhead Work	Construction Mats	Field Delineated Vernal Pool*	Town Boundary
Replace Structure	Work Envelope*	MADEP Hydrologic Connections	Potential Vernal Pools
Install Structure with Caisson	Grade Work Envelope*	MADEP Wetlands*	Fence Line
Remove Structure	Pull Pad	MADEP Open Water*	Stone Wall
Preferred Access Road	Field Delineated Intermittent Stream	50 ft No Disturb Zone	Edge of ROW
Alternate Access Road	Field Delineated Perennial Stream/Bank	100ft Buffer to Wetlands & Streams	National Grid Property
Widen & Refresh Access with Stone	Estimated Perennial Stream/Bank	200ft Riverfront Area	Overhead Lines
Access in NHESP Habitat with TOY Restrictions	Field Delineated Stream Area*	FEMA 100yr Floodplain*	Culvert
Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	Field Delineated Wetland Flag	NHESP Restricted Data	
	Field Delineated Wetland Lines	NHESP Priority & Estimated Habitats	

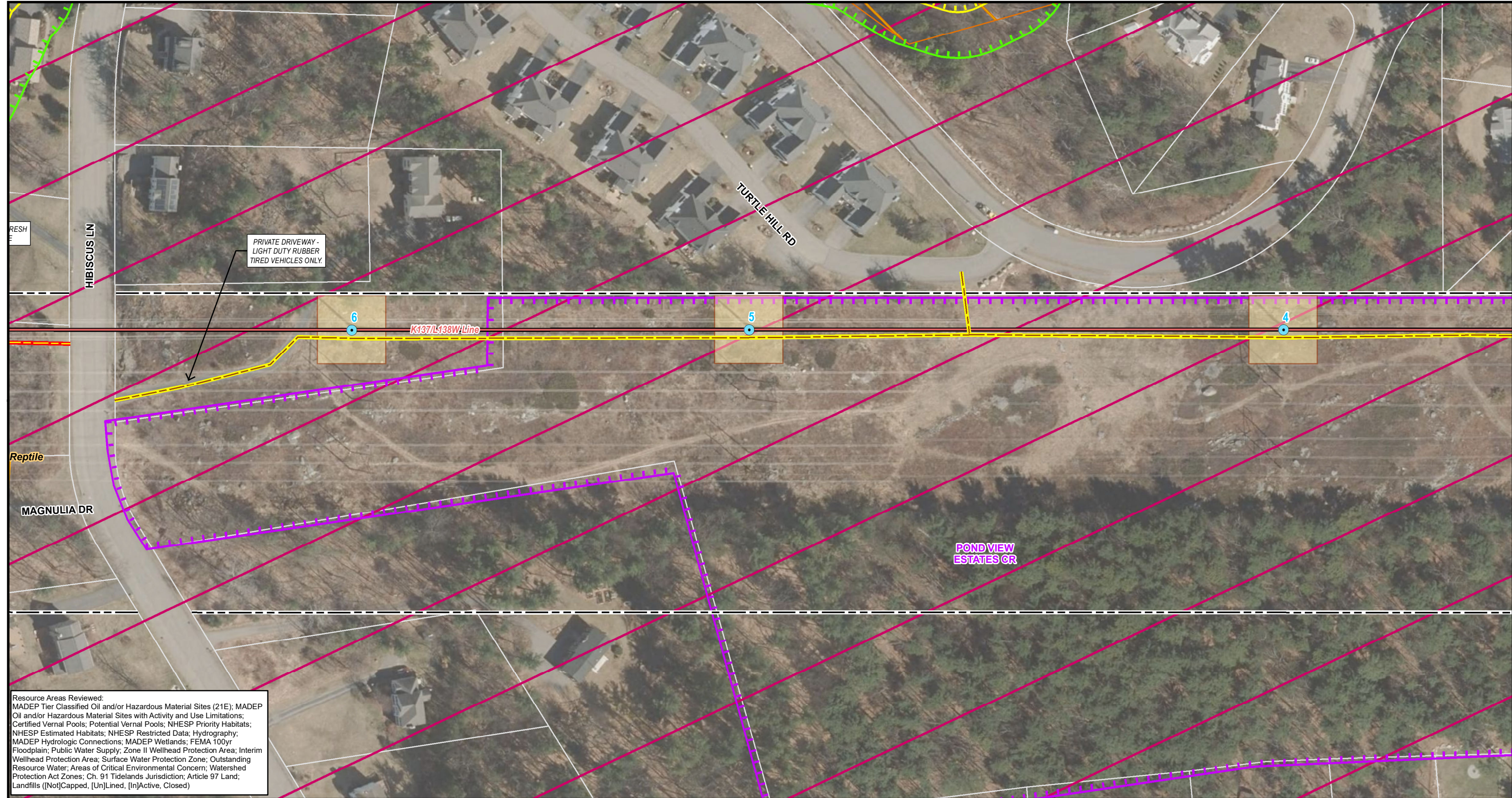


**K137/L138 SANDY POND TO PRATTS  
 JCT & AYER TAP TRANSMISSION  
 LINE OPGW INSTALLATION**

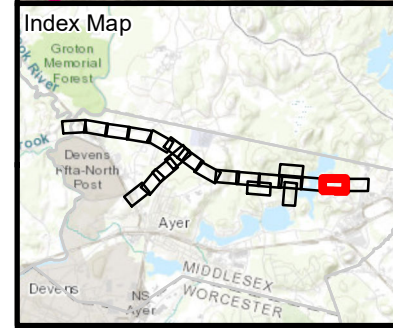
**Environmental Resources Map**

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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



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Legend		*Indicates Layers Set to Transparency	
Existing Structure	Sediment Controls	Areas of Critical Environmental Concern	Access Gate
Overhead Work	Construction Mats	Town Boundary	Catch Basin
Replace Structure	Work Envelope*	Potential Vernal Pools	Railroad
Install Structure with Caisson	Grade Work Envelope*	Fence Line	Parcel Boundary
Remove Structure	Pull Pad	Stone Wall	Article 97 Lands
Preferred Access Road	Field Delineated Intermittent Stream	Edge of ROW	Private
Alternate Access Road	Field Delineated Perennial Stream/Bank	National Grid Property	
Widen & Refresh Access with Stone	Estimated Perennial Stream/Bank	Overhead Lines	
Access in NHESP Habitat with TOY Restrictions	Field Delineated Stream Area*	Culvert	
Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	Field Delineated Wetland Flag		
	Field Delineated Wetland Lines		
	Field Delineated Wetlands*		
	Field Delineated Vernal Pool*		
	MADEP Hydrologic Connections		
	MADEP Wetlands*		
	MADEP Open Water*		
	50 ft No Disturb Zone		
	100ft Buffer to Wetlands & Streams		
	200ft Riverfront Area		
	FEMA 100yr Floodplain*		
	NHESP Restricted Data		
	NHESP Priority & Estimated Habitats		

Mapping reflects the worklist from 10/5/2021

1 inch = 100 feet

0 50 100 Feet

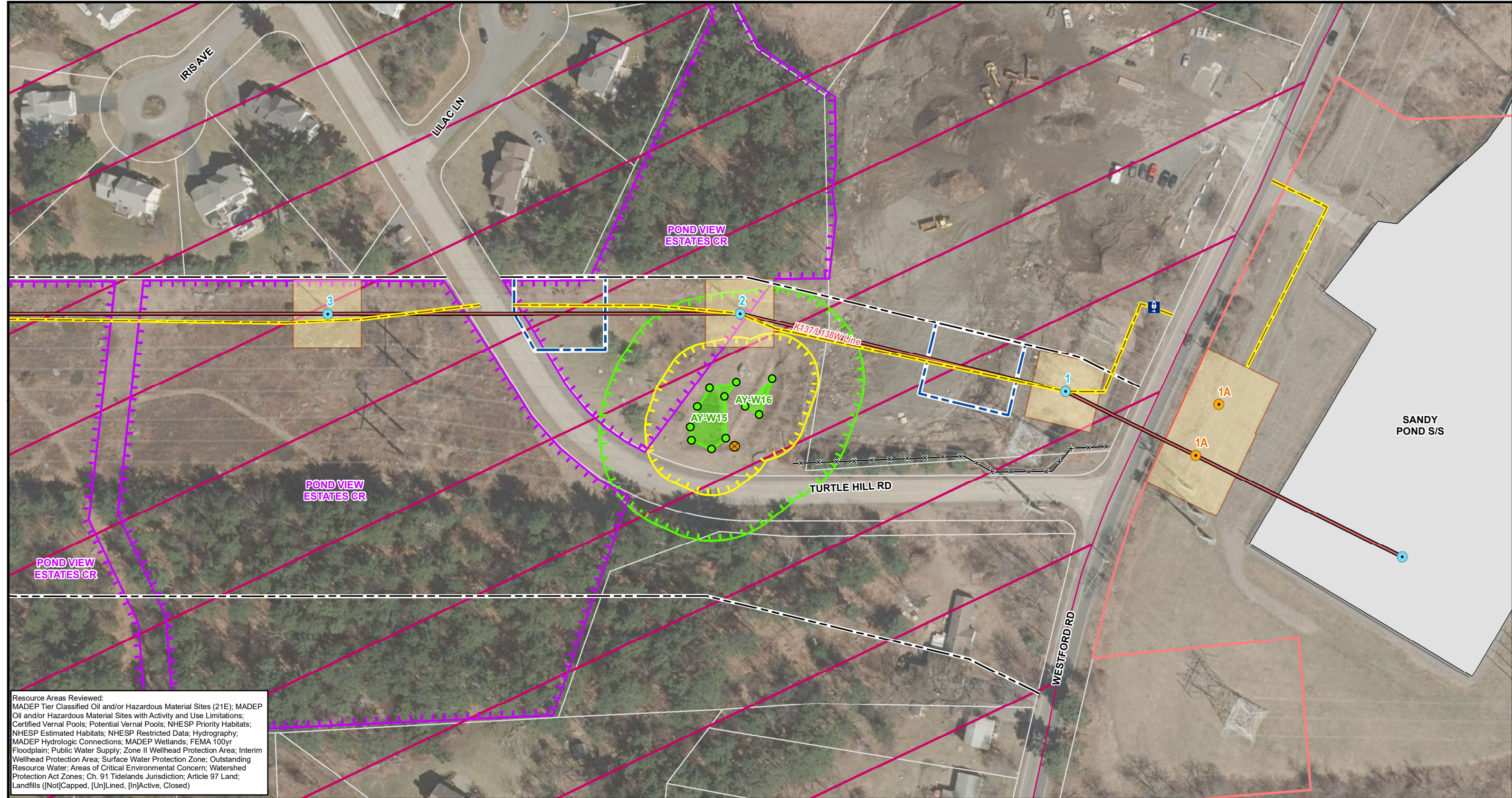
**K137/L138 SANDY POND TO PRATTS  
 JCT & AYER TAP TRANSMISSION  
 LINE OPGW INSTALLATION**

**Environmental Resources Map**

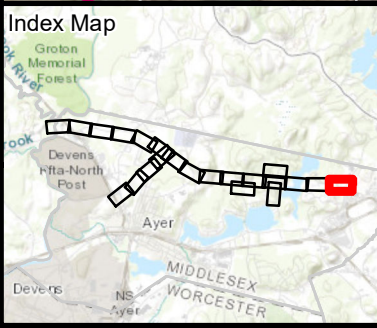
Ayer, MA  
 Page 14 of 19

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Resource Areas Reviewed:  
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**Legend**

<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Existing Structure</li> <li><span style="color: blue;">○</span> Overhead Work</li> <li><span style="color: black;">○</span> Replace Structure</li> <li><span style="color: orange;">●</span> Install Structure with Caisson</li> <li><span style="color: yellow;">●</span> Remove Structure</li> <li><span style="color: purple;">—</span> Preferred Access Road</li> <li><span style="color: yellow;">—</span> Alternate Access Road</li> <li><span style="color: orange;">—</span> Widen &amp; Refresh Access with Stone</li> <li><span style="color: red;">—</span> Access in NHESP Habitat with TOY Restrictions</li> <li><span style="color: brown;">—</span> Off-ROW Access Road (Improvements Require Environmental &amp; Real Estate Review)</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: red;">—</span> Sediment Controls</li> <li><span style="color: orange;">—</span> Construction Mats</li> <li><span style="color: yellow;">—</span> Work Envelope*</li> <li><span style="color: orange;">—</span> Grade Work Envelope*</li> <li><span style="color: blue;">—</span> Pull Pad</li> <li><span style="color: blue;">—</span> Field Delineated Intermittent Stream</li> <li><span style="color: blue;">—</span> Field Delineated Perennial Stream/Bank</li> <li><span style="color: blue;">—</span> Estimated Perennial Stream/Bank</li> <li><span style="color: blue;">—</span> Field Delineated Stream Area*</li> <li><span style="color: green;">●</span> Field Delineated Wetland Flag</li> <li><span style="color: green;">—</span> Field Delineated Wetland Lines</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: green;">—</span> Field Delineated Wetlands*</li> <li><span style="color: yellow;">—</span> Field Delineated Vernal Pool*</li> <li><span style="color: blue;">—</span> MADEP Hydrologic Connections</li> <li><span style="color: green;">—</span> MADEP Wetlands*</li> <li><span style="color: blue;">—</span> MADEP Open Water*</li> <li><span style="color: yellow;">—</span> 50 ft No Disturb Zone</li> <li><span style="color: green;">—</span> 100ft Buffer to Wetlands &amp; Streams</li> <li><span style="color: blue;">—</span> 200ft Riverfront Area</li> <li><span style="color: orange;">—</span> FEMA 100yr Floodplain*</li> <li><span style="color: orange;">—</span> NHESP Restricted Data</li> <li><span style="color: orange;">—</span> NHESP Priority &amp; Estimated Habitats</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: pink;">—</span> Areas of Critical Environmental Concern</li> <li><span style="color: pink;">—</span> Town Boundary</li> <li><span style="color: yellow;">—</span> Potential Vernal Pools</li> <li><span style="color: black;">—</span> Fence Line</li> <li><span style="color: grey;">—</span> Stone Wall</li> <li><span style="color: grey;">—</span> Bike Trail</li> <li><span style="color: black;">—</span> Edge of ROW</li> <li><span style="color: red;">—</span> National Grid Property</li> <li><span style="color: black;">—</span> Overhead Lines</li> <li><span style="color: orange;">—</span> Culvert</li> </ul>	<p>*Indicates Layers Set to Transparency</p> <ul style="list-style-type: none"> <li><span style="color: blue;">—</span> Access Gate</li> <li><span style="color: grey;">—</span> Catch Basin</li> <li><span style="color: black;">—</span> Railroad</li> <li><span style="color: grey;">—</span> Parcel Boundary</li> <li><span style="color: red;">—</span> Article 97 Lands</li> <li><span style="color: purple;">—</span> Private</li> </ul>
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Mapping reflects the worklist from 10/5/2021

1 inch = 100 feet

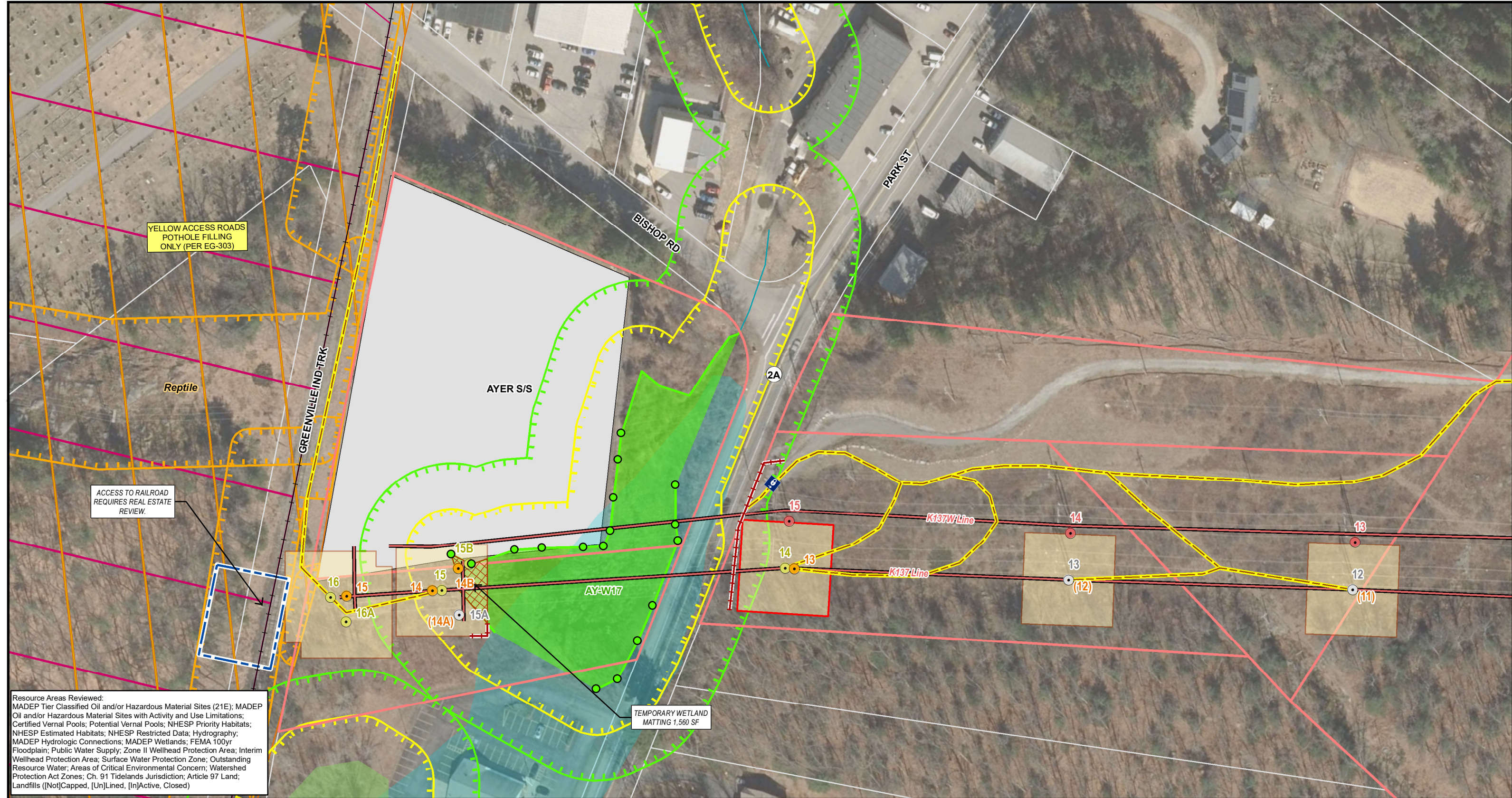
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**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

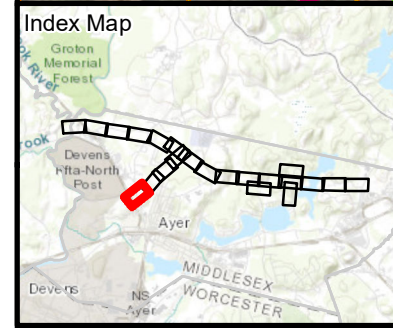
**Environmental Resources Map**

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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



Resource Areas Reviewed:  
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Legend		*Indicates Layers Set to Transparency	
● Existing Structure	■ Sediment Controls	■ Field Delineated Wetlands*	■ Areas of Critical Environmental Concern
● Overhead Work	■ Construction Mats	■ Field Delineated Vernal Pool*	■ Town Boundary
● Replace Structure	■ Work Envelope*	■ MADEP Hydrologic Connections	● Potential Vernal Pools
● Install Structure with Caisson	■ Grade Work Envelope*	■ MADEP Wetlands*	✕ Fence Line
● Remove Structure	■ Pull Pad	■ MADEP Open Water*	● Stone Wall
■ Preferred Access Road	■ Field Delineated Intermittent Stream	■ 50 ft No Disturb Zone	○ Bike Trail
■ Alternate Access Road	■ Field Delineated Perennial Stream/Bank	■ 100ft Buffer to Wetlands & Streams	— Edge of ROW
■ Widen & Refresh Access with Stone	■ Estimated Perennial Stream/Bank	■ 200ft Riverfront Area	■ National Grid Property
■ Access in NHESP Habitat with TOY Restrictions	■ Field Delineated Stream Area*	■ FEMA 100yr Floodplain*	— Overhead Lines
■ Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	● Field Delineated Wetland Flag	■ NHESP Restricted Data	○ Culvert
	■ Field Delineated Wetland Lines	■ NHESP Priority & Estimated Habitats	

**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

**Environmental Resources Map**

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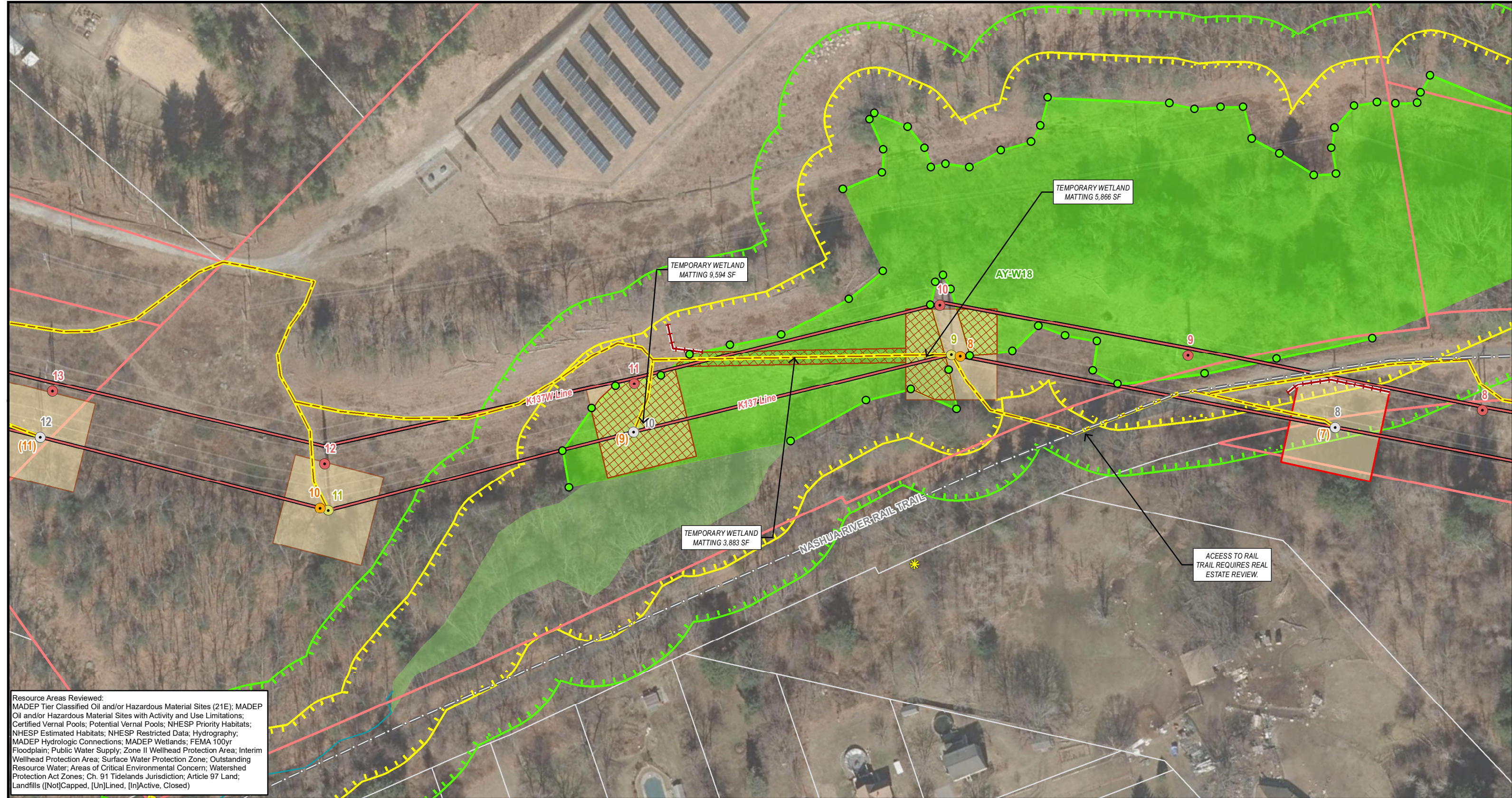
Mapping reflects the worklist from 10/5/2021

1 inch = 100 feet

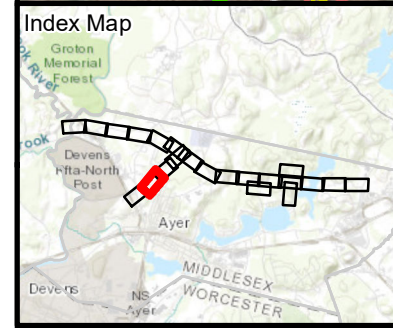
0 50 100 Feet

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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**Resource Areas Reviewed:**  
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Legend		*Indicates Layers Set to Transparency	
● Existing Structure	■ Sediment Controls	■ Areas of Critical Environmental Concern	■ Access Gate
● Overhead Work	■ Construction Mats	■ Town Boundary	■ Catch Basin
● Replace Structure	■ Work Envelope*	● Potential Vernal Pools	■ Railroad
● Install Structure with Caisson	■ Grade Work Envelope*	✕ Fence Line	■ Parcel Boundary
● Remove Structure	■ Pull Pad	● Stone Wall	
■ Preferred Access Road	■ Field Delineated Intermittent Stream	○ Bike Trail	
■ Alternate Access Road	■ Field Delineated Perennial Stream/Bank	— Edge of ROW	
■ Widen & Refresh Access with Stone	■ Field Delineated Perennial Stream/Bank	■ National Grid Property	
■ Access in NHESP Habitat with TOY Restrictions	● Field Delineated Stream Area*	■ Overhead Lines	
■ Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	● Field Delineated Stream Area*	● Culvert	
	● Field Delineated Wetland Flag		
	■ Field Delineated Wetland Lines		
	■ Field Delineated Wetlands*		
	■ Field Delineated Vernal Pool*		
	■ MADEP Hydrologic Connections		
	■ MADEP Wetlands*		
	■ MADEP Open Water*		
	■ 50 ft No Disturb Zone		
	■ 100ft Buffer to Wetlands & Streams		
	■ 200ft Riverfront Area		
	■ FEMA 100yr Floodplain*		
	■ NHESP Restricted Data		
	■ NHESP Priority & Estimated Habitats		

Mapping reflects the worklist from 10/5/2021

1 inch = 100 feet

0 50 100 Feet

**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

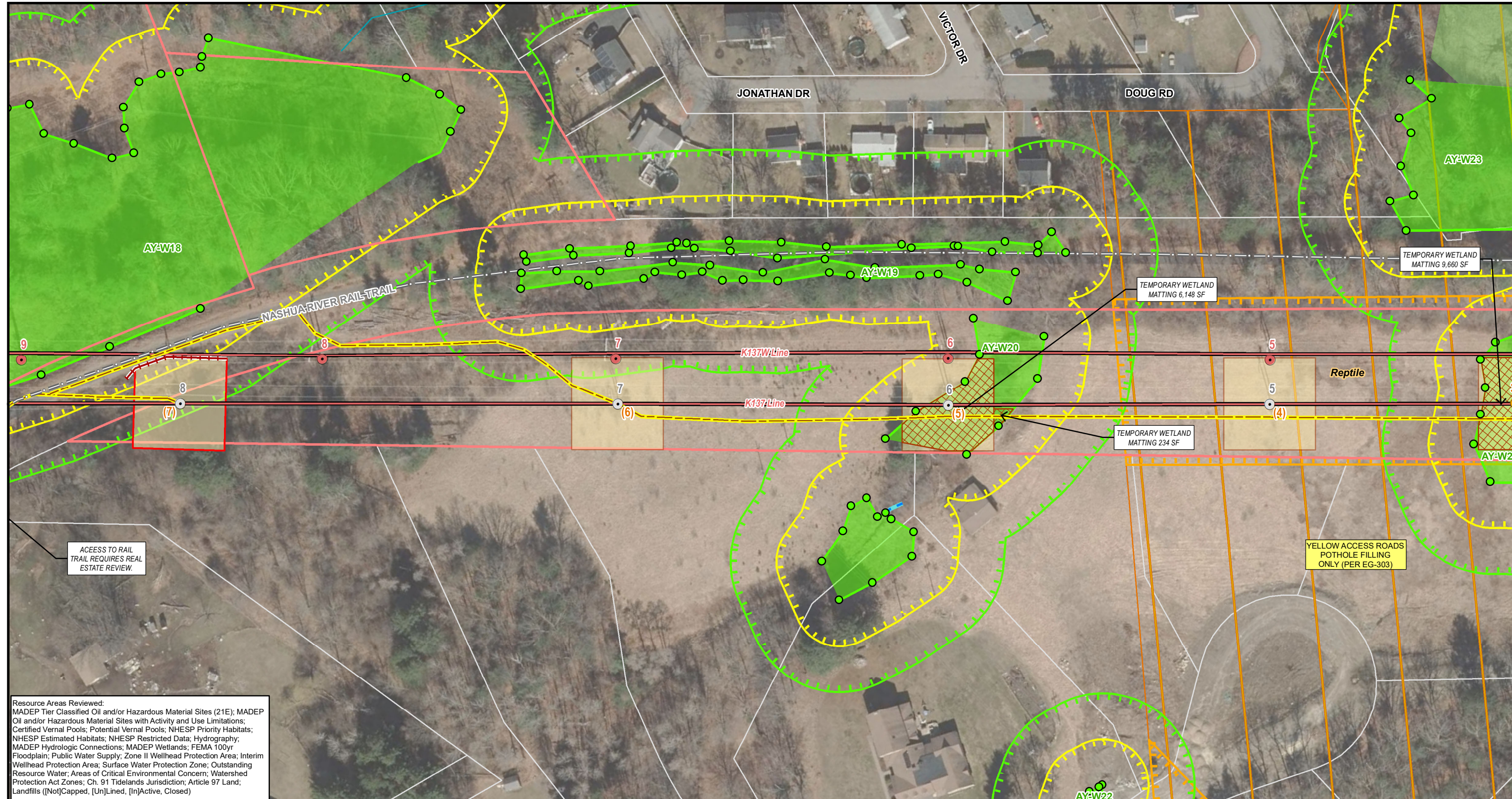
**Environmental Resources Map**

Ayer, MA  
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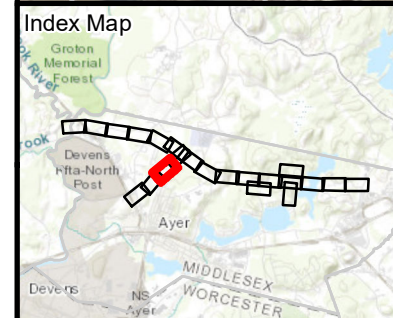
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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**BSC GROUP**





**Resource Areas Reviewed:**  
 MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Hydrography; MADEP Hydrologic Connections; MADEP Wetlands; FEMA 100yr Floodplain; Public Water Supply; Zone II Wellhead Protection Area; Interim Wellhead Protection Area; Surface Water Protection Zone; Outstanding Resource Water; Areas of Critical Environmental Concern; Watershed Protection Act Zones; Ch. 91 Tidelands Jurisdiction; Article 97 Land; Landfills ([Not]Capped, [Un]Lined, [In]Active, Closed)



Legend		*Indicates Layers Set to Transparency	
Existing Structure	Sediment Controls	Areas of Critical Environmental Concern	Access Gate
Overhead Work	Construction Mats	Potential Vernal Pools	Catch Basin
Replace Structure	Work Envelope*	Fence Line	Railroad
Install Structure with Caisson	Grade Work Envelope*	Stone Wall	Parcel Boundary
Remove Structure	Pull Pad	Edge of ROW	
Preferred Access Road	Field Delineated Intermittent Stream	National Grid Property	
Alternate Access Road	Field Delineated Perennial Stream/Bank	Overhead Lines	
Widen & Refresh Access with Stone	Field Delineated Perennial Stream/Bank	Culvert	
Access in NHESP Habitat with TOY Restrictions	Field Delineated Stream Area*		
Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	Field Delineated Wetland Flag		
	Field Delineated Wetland Lines		
	Field Delineated Wetlands*		
	Field Delineated Vernal Pool*		
	MADEP Hydrologic Connections		
	MADEP Wetlands*		
	MADEP Open Water*		
	50 ft No Disturb Zone		
	100ft Buffer to Wetlands & Streams		
	200ft Riverfront Area		
	FEMA 100yr Floodplain*		
	NHESP Restricted Data		
	NHESP Priority & Estimated Habitats		

Mapping reflects the worklist from 10/5/2021

1 inch = 100 feet

0 50 100 Feet

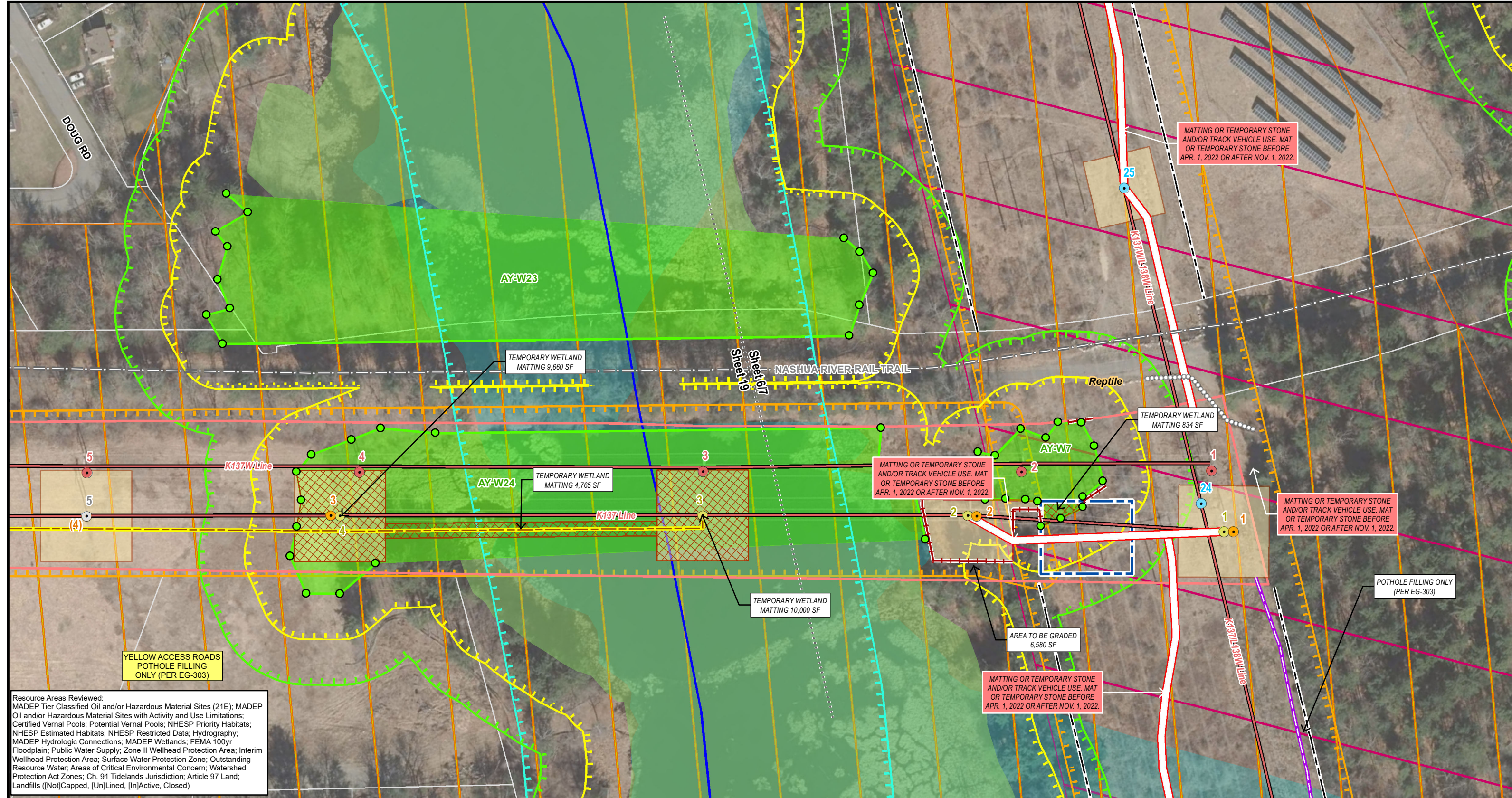
**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

**Environmental Resources Map**

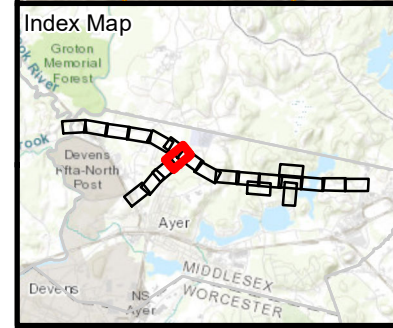
Ayer, MA  
Page 18 of 19

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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**BSC GROUP**



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 MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Hydrography; MADEP Hydrologic Connections; MADEP Wetlands; FEMA 100yr Floodplain; Public Water Supply; Zone II Wellhead Protection Area; Interim Wellhead Protection Area; Surface Water Protection Zone; Outstanding Resource Water; Areas of Critical Environmental Concern; Watershed Protection Act Zones; Ch. 91 Tidelands Jurisdiction; Article 97 Land; Landfills ([Not]Capped, [Un]Lined, [In]Active, Closed)



Legend		*Indicates Layers Set to Transparency	
● Existing Structure	■ Sediment Controls	■ Field Delineated Wetlands*	■ Areas of Critical Environmental Concern
● Overhead Work	■ Construction Mats	■ Field Delineated Vernal Pool*	■ Town Boundary
● Replace Structure	■ Work Envelope*	■ MADEP Hydrologic Connections	● Potential Vernal Pools
● Install Structure with Caisson	■ Grade Work Envelope*	■ MADEP Wetlands*	✕ Fence Line
● Remove Structure	■ Pull Pad	■ MADEP Open Water*	● Stone Wall
■ Preferred Access Road	■ Field Delineated Intermittent Stream	■ 50 ft No Disturb Zone	○ Bike Trail
■ Alternate Access Road	■ Field Delineated Perennial Stream/Bank	■ 100ft Buffer to Wetlands & Streams	— Edge of ROW
■ Widen & Refresh Access with Stone	■ Field Delineated Perennial Stream/Bank	■ 200ft Riverfront Area	■ National Grid Property
■ Access in NHESP Habitat with TOY Restrictions	■ Field Delineated Stream Area*	■ FEMA 100yr Floodplain*	■ Overhead Lines
■ Off-ROW Access Road (Improvements Require Environmental & Real Estate Review)	● Field Delineated Wetland Flag	■ NHESP Restricted Data	○ Parcel Boundary
	■ Field Delineated Wetland Lines	■ NHESP Priority & Estimated Habitats	○ Culvert
			■ Access Gate
			■ Catch Basin
			■ Railroad

Mapping reflects the worklist from 10/5/2021

1 inch = 100 feet

0 50 100 Feet

**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

**Environmental Resources Map**

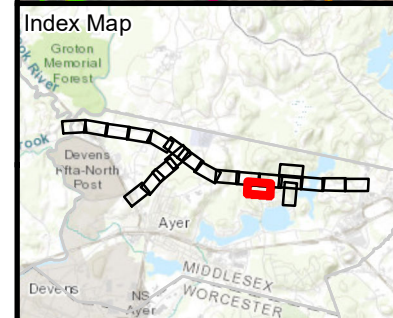
Ayer, MA  
Page 19 of 19

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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**Legend**

<ul style="list-style-type: none"> <li> Existing Structure</li> <li> Overhead Work</li> <li> Replace Structure</li> <li> Install Structure with Caisson</li> <li> Remove Structure</li> <li> Preferred Access Road</li> <li> Alternate Access Road</li> <li> Widen &amp; Refresh Access with Stone</li> <li> Access in NHESP Habitat with TOY Restrictions</li> <li> Off-ROW Access Road (Improvements Require Environmental &amp; Real Estate Review)</li> </ul>	<ul style="list-style-type: none"> <li> Sediment Controls</li> <li> Construction Mats</li> <li> Work Envelope*</li> <li> Grade Work Envelope*</li> <li> Pull Pad</li> <li> Field Delineated Intermittent Stream</li> <li> Field Delineated Perennial Stream/Bank</li> <li> Estimated Perennial Stream/Bank</li> <li> Field Delineated Stream Area*</li> <li> Field Delineated Wetland Flag</li> <li> Field Delineated Wetland Lines</li> </ul>	<ul style="list-style-type: none"> <li> Field Delineated Wetlands*</li> <li> Field Delineated Vernal Pool*</li> <li> MADEP Hydrologic Connections</li> <li> MADEP Wetlands*</li> <li> MADEP Open Water*</li> <li> 50 ft No Disturb Zone</li> <li> 100ft Buffer to Wetlands &amp; Streams</li> <li> 200ft Riverfront Area</li> <li> FEMA 100yr Floodplain*</li> <li> NHESP Restricted Data</li> <li> NHESP Priority &amp; Estimated Habitats</li> </ul>	<ul style="list-style-type: none"> <li> Areas of Critical Environmental Concern</li> <li> Town Boundary</li> <li> Potential Vernal Pools</li> <li> Fence Line</li> <li> Stone Wall</li> <li> Bike Trail</li> <li> Edge of ROW</li> <li> National Grid Property</li> <li> Overhead Lines</li> <li> Culvert</li> </ul>	<ul style="list-style-type: none"> <li> Access Gate</li> <li> Catch Basin</li> <li> Railroad</li> <li> Parcel Boundary</li> </ul>
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*\*Indicates Layers Set to Transparency*

Mapping reflects the worklist from 10/5/2021

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0 50 100 Feet

**K137/L138 SANDY POND TO PRATTS  
 JCT & AYER TAP TRANSMISSION  
 LINE OPGW INSTALLATION**

**Environmental Resources Map**

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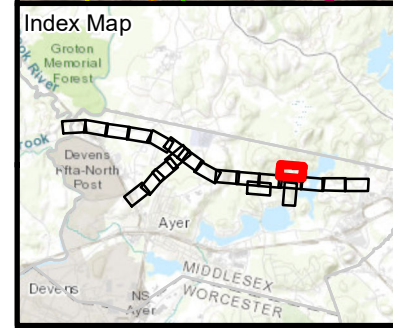
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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**BSC GROUP**



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Sheet 12A  
 Sheet 12B



**Legend**

<ul style="list-style-type: none"> <li> Existing Structure</li> <li> Overhead Work</li> <li> Replace Structure</li> <li> Install Structure with Caisson</li> <li> Remove Structure</li> <li> Preferred Access Road</li> <li> Alternate Access Road</li> <li> Widen &amp; Refresh Access with Stone</li> <li> Access in NHESP Habitat with TOY Restrictions</li> <li> Off-ROW Access Road (Improvements Require Environmental &amp; Real Estate Review)</li> </ul>	<ul style="list-style-type: none"> <li> Sediment Controls</li> <li> Construction Mats</li> <li> Work Envelope*</li> <li> Grade Work Envelope*</li> <li> Pull Pad</li> <li> Field Delineated Intermittent Stream</li> <li> Field Delineated Perennial Stream/Bank</li> <li> Estimated Perennial Stream/Bank</li> <li> Field Delineated Stream Area*</li> <li> Field Delineated Wetland Flag</li> <li> Field Delineated Wetland Lines</li> </ul>	<ul style="list-style-type: none"> <li> Field Delineated Wetlands*</li> <li> Field Delineated Vernal Pool*</li> <li> MADEP Hydrologic Connections</li> <li> MADEP Wetlands*</li> <li> MADEP Open Water*</li> <li> 50 ft No Disturb Zone</li> <li> 100ft Buffer to Wetlands &amp; Streams</li> <li> 200ft Riverfront Area</li> <li> FEMA 100yr Floodplain*</li> <li> NHESP Restricted Data</li> <li> NHESP Priority &amp; Estimated Habitats</li> </ul>	<ul style="list-style-type: none"> <li> Areas of Critical Environmental Concern</li> <li> Town Boundary</li> <li> Potential Vernal Pools</li> <li> Fence Line</li> <li> Stone Wall</li> <li> Bike Trail</li> <li> Edge of ROW</li> <li> National Grid Property</li> <li> Overhead Lines</li> <li> Culvert</li> </ul>	<p><i>*Indicates Layers Set to Transparency</i></p> <ul style="list-style-type: none"> <li> Access Gate</li> <li> Catch Basin</li> <li> Railroad</li> <li> Parcel Boundary</li> </ul>
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0 50 100 Feet

**K137/L138 SANDY POND TO PRATTS  
 JCT & AYER TAP TRANSMISSION  
 LINE OPGW INSTALLATION**

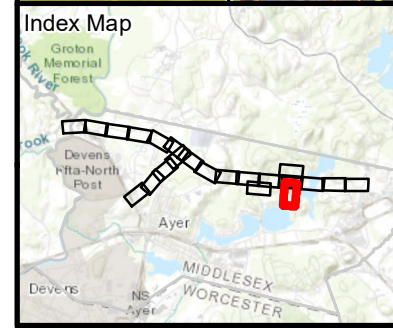
**Environmental Resources Map**

Ayer, MA  
 Page 12A of 19

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



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**Legend**

<ul style="list-style-type: none"> <li>Existing Structure</li> <li>Overhead Work</li> <li>Replace Structure</li> <li>Install Structure with Caisson</li> <li>Remove Structure</li> <li>Preferred Access Road</li> <li>Alternate Access Road</li> <li>Widen &amp; Refresh Access with Stone</li> <li>Access in NHESP Habitat with TOY Restrictions</li> <li>Off-ROW Access Road (Improvements Require Environmental &amp; Real Estate Review)</li> </ul>	<ul style="list-style-type: none"> <li>Sediment Controls</li> <li>Construction Mats</li> <li>Work Envelope*</li> <li>Grade Work Envelope*</li> <li>Pull Pad</li> <li>Field Delineated Intermittent Stream</li> <li>Field Delineated Perennial Stream/Bank</li> <li>Estimated Perennial Stream/Bank</li> <li>Field Delineated Stream Area*</li> <li>Field Delineated Wetland Flag</li> <li>Field Delineated Wetland Lines</li> </ul>	<ul style="list-style-type: none"> <li>Field Delineated Wetlands*</li> <li>Field Delineated Vernal Pool*</li> <li>MADEP Hydrologic Connections</li> <li>MADEP Wetlands*</li> <li>MADEP Open Water*</li> <li>50 ft No Disturb Zone</li> <li>100ft Buffer to Wetlands &amp; Streams</li> <li>200ft Riverfront Area</li> <li>FEMA 100yr Floodplain*</li> <li>NHESP Restricted Data</li> <li>NHESP Priority &amp; Estimated Habitats</li> </ul>	<ul style="list-style-type: none"> <li>Areas of Critical Environmental Concern</li> <li>Town Boundary</li> <li>Potential Vernal Pools</li> <li>Fence Line</li> <li>Stone Wall</li> <li>Bike Trail</li> <li>Edge of ROW</li> <li>National Grid Property</li> <li>Overhead Lines</li> <li>Culvert</li> </ul>	<p><i>*Indicates Layers Set to Transparency</i></p> <ul style="list-style-type: none"> <li>Access Gate</li> <li>Catch Basin</li> <li>Railroad</li> <li>Parcel Boundary</li> </ul>
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Mapping reflects the worklist from 10/5/2021

1 inch = 100 feet

0 50 100 Feet

**K137/L138 SANDY POND TO PRATTS JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION**

**Environmental Resources Map**

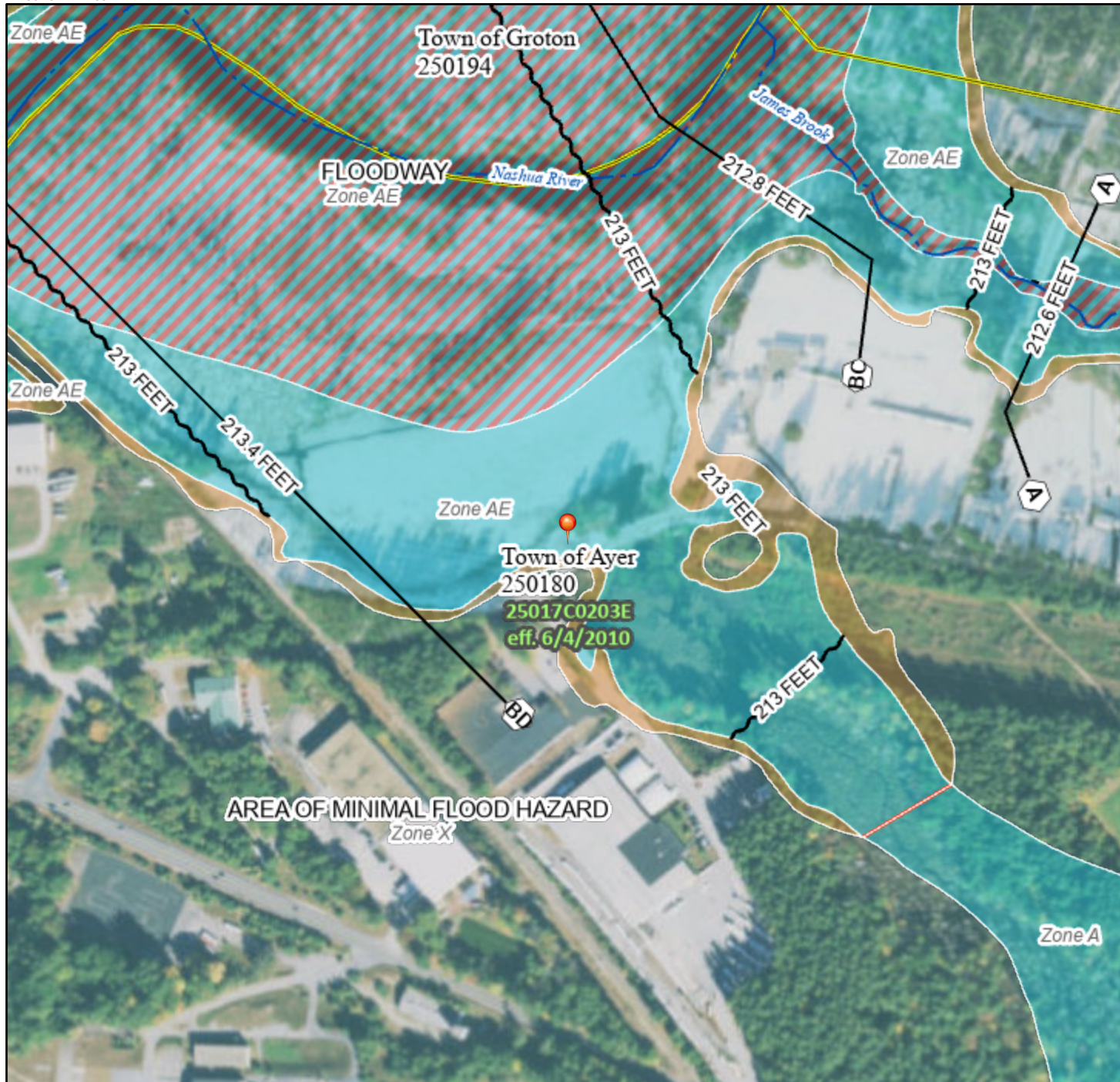
Ayer, MA  
 Page 12B of 19

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

# National Flood Hazard Layer FIRMMette



71°36'28"W 42°35'N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A99	With BFE or Depth Zone AE, AO, AH, VE, AR	Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X	Future Conditions 1% Annual Chance Flood Hazard Zone X	Area with Reduced Flood Risk due to Levee. See Notes. Zone X	Area with Flood Risk due to Levee Zone D

OTHER AREAS	NO SCREEN Area of Minimal Flood Hazard Zone X	Effective LOMRs	Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer	Levee, Dike, or Floodwall

OTHER FEATURES	Cross Sections with 1% Annual Chance Water Surface Elevation	Coastal Transect	Base Flood Elevation Line (BFE)	Limit of Study	Jurisdiction Boundary	Coastal Transect Baseline	Profile Baseline	Hydrographic Feature

MAP PANELS	Digital Data Available	No Digital Data Available	Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/6/2021 at 3:35 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

# National Flood Hazard Layer FIRMette



71°35'1"W 42°34'39"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

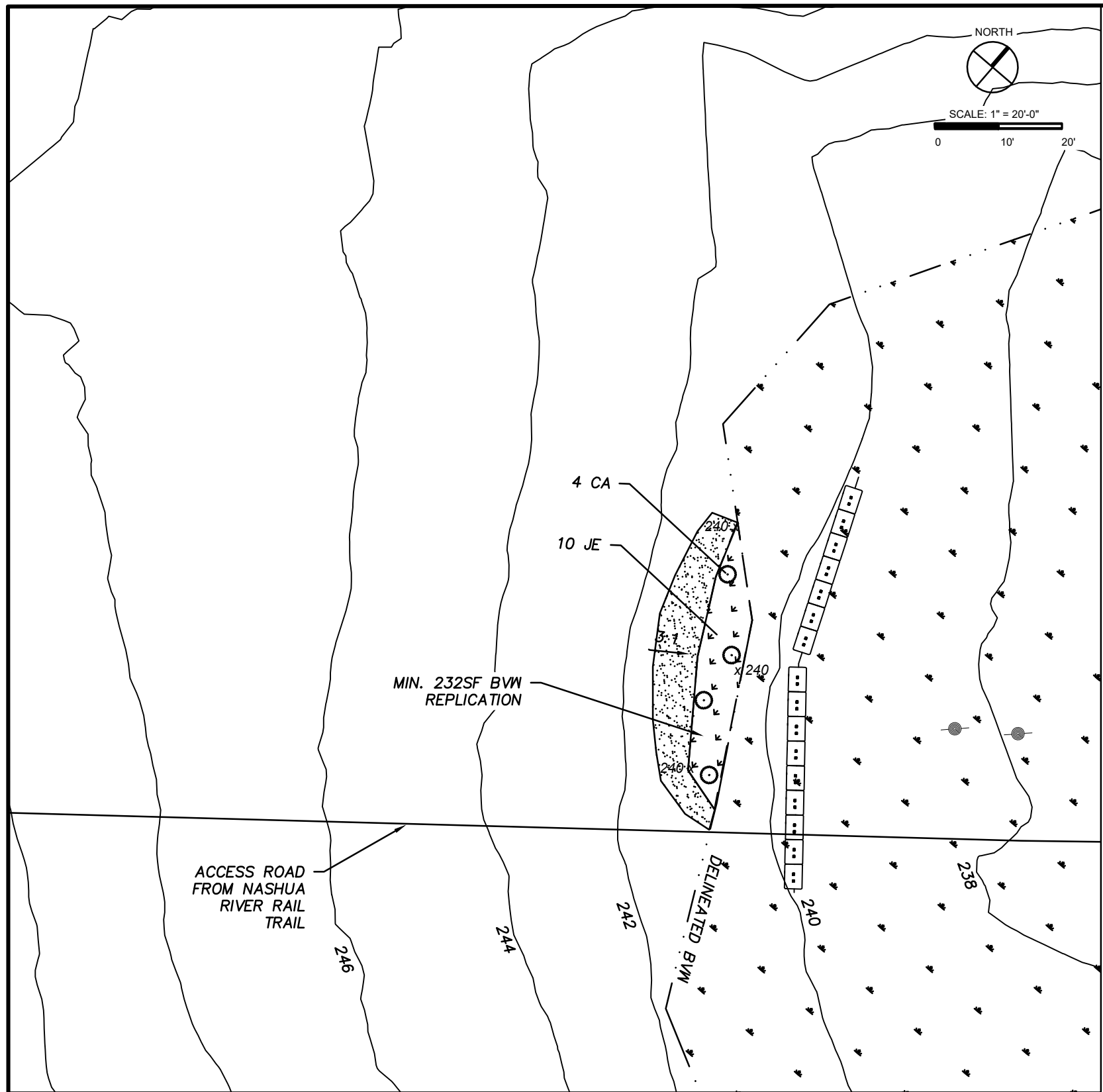
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



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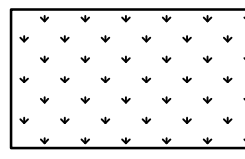


**WETLAND**

SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	CONT	REMARKS
CA	4	CORNUS AMOMUM / SILKY DOGWOOD	1.5-2' HT.	#1 CONT
VEGETATIVE PLANTS (DISTRIBUTED THROUGHOUT AS DIRECTED)				
WETLAND				
JE	10	JUNCUS EFUSUS / SOFT RUSH		PLUG

SEEDING FOR WETLAND SHALL INCLUDE THE FOLLOWING OR APPROVED EQUAL

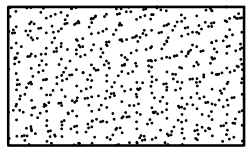
- WETLAND**
- SOLIDAGO CANADENSIS / GOLDENROD
  - JUNCUS EFFUSUS / SOFT RUSH
  - CAREX VULPINOIDEA / FOX SEDGE
  - CAREX LURIDA / LURID SEDGE
  - SCIRPUS CYPERINUS / WOOLGRASS
  - ELYMUS VIRGINICUS / VIRGINIA WILD RYE



REPLICATION AREA

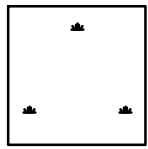
- UPLAND**
- ASTER NOVAE-ANGLIAE / NEW ENGLAND ASTER
  - EURYBIA MACROPHYLLA / BIG LEAVED ASTER
  - SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM
  - ANDROPOGON GERARDII / BIG BLUESTEM
  - PANICUM VIRGATUM / SWITCH GRASS
  - SORGHASTRUM NUTANS / INDIAN GRASS
  - ELYMUS VIRGINICUS / VIRGINIA WILD RYE

SEEDED AREAS W/ JUTE EROSION CONTROL BLANKET:



UPLAND

- GRADING NOTES:**  
CONTOURS SHOWN ARE 2' INTERVAL  
LIDAR MA83F DATUM
- ×(00.0) EXISTING SPOT GRADE
  - × 00.0 PROPOSED SPOT GRADE
  - BVM REPLICATION AREA
  - - - - DELINEATED BVM
  - [- - - -] EROSION CONTROL 12" COMPOST FILTER TUBE



EXISTING WETLAND

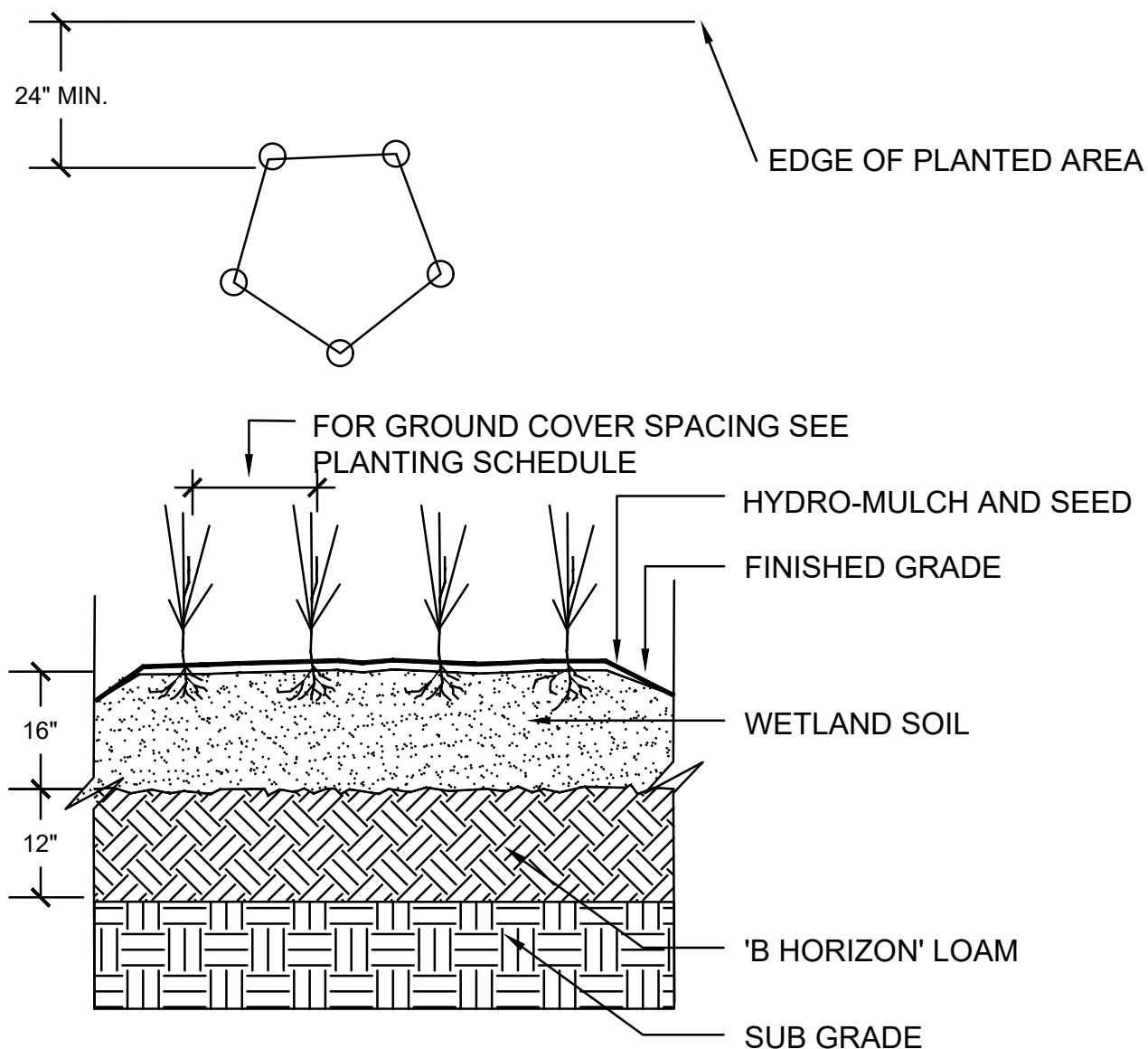
# K137/L138 SANDY POND TO PRATT JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION WETLAND REPLICATION PLANTING PLAN





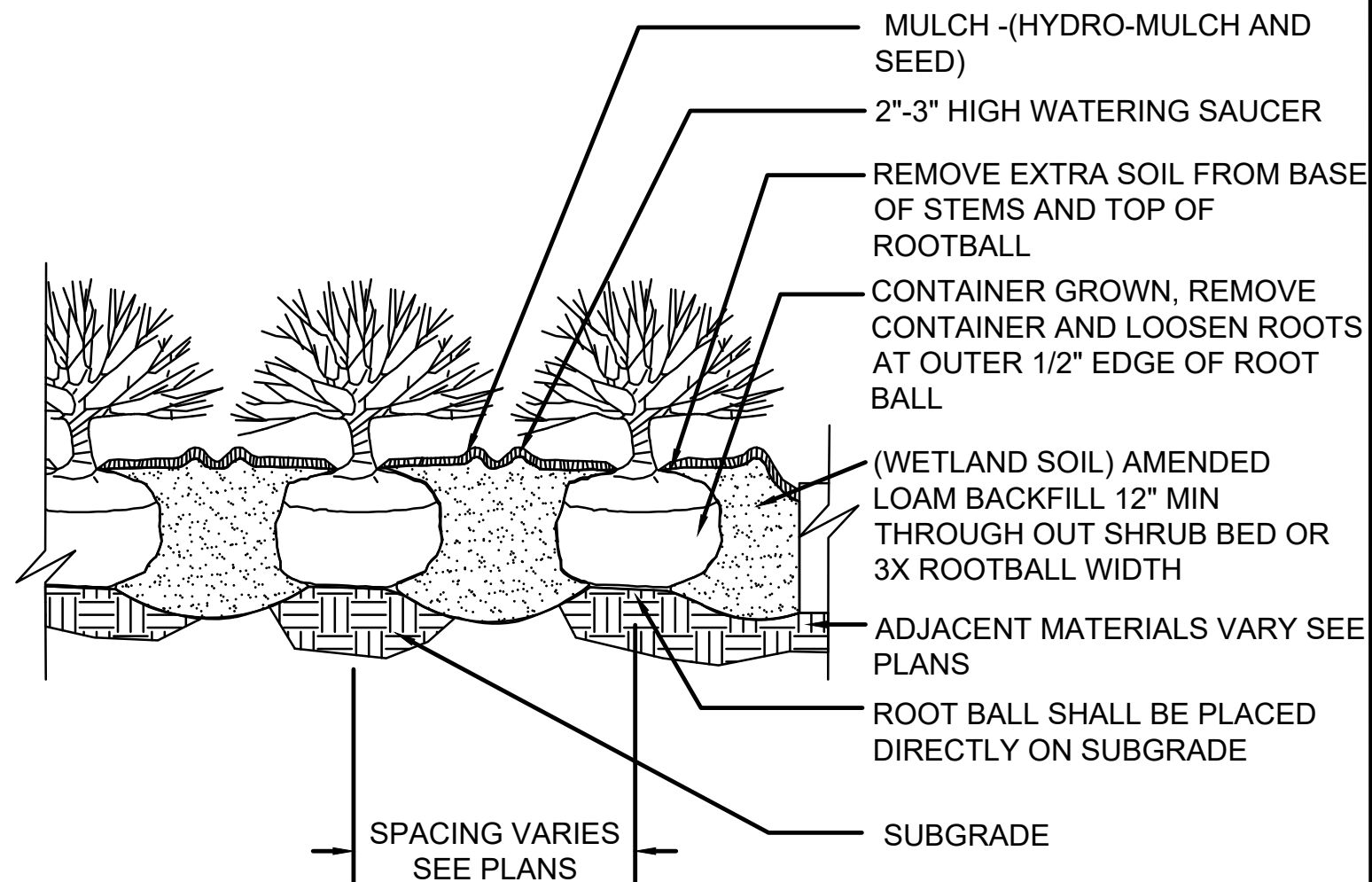
**NOTES:**

PLANT TUSsock PLUGS IN GROUPS OF 2 PER HOLE ARRANGED IN A 18" DIAMETER CIRCLE OF 5  
 VERIFY 12 INCH MIN. B HORIZON PER TEST PITS AMEND AS NEEDED



**HUMMOCK/ WETLAND PLUG PLANTING**

SCALE: NONE



**NOTES:**

1. NO PRUNING OR CUTTING UNLESS DIRECTED BY THE ENVIRONMENTAL SCIENTIST.
2. WATERING SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 48 HOURS AFTER PLANTING.
3. SHRUBS SHALL BE SET PLUMB AND PLANTED SO THAT THE TOP OF THE ROOTBALL IS 1" ABOVE FINISHED GRADE.

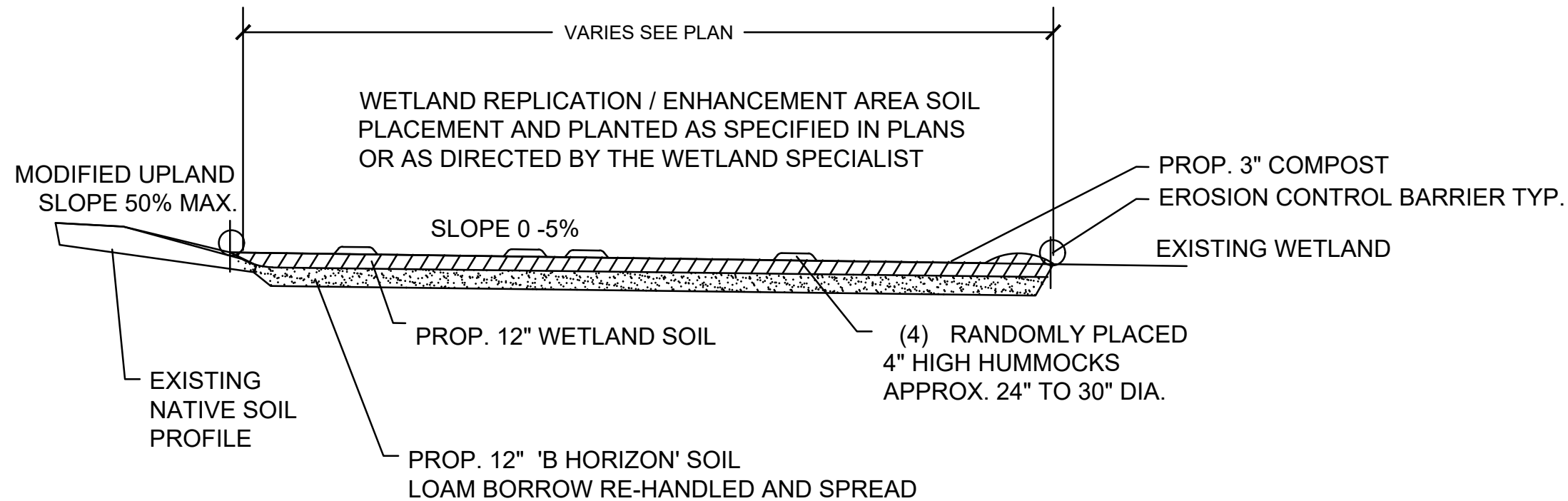
**SHRUB PLANTING - WOODLAND - (WETLAND)**

SCALE: NONE

**K137/L138 SANDY POND TO PRATT JCT & AYER TAP  
 TRANSMISSION LINE OPGW INSTALLATION  
 WETLAND REPLICATION PLANTING PLAN**



1. PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE "AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSEYMEN, LATEST EDITION.
2. TOPSOIL STRIPPED FROM THE SITE AND PROPERLY STOCKPILED PRIOR TO APPLICATION MAY, UPON APPROVAL OF THE ENGINEER, BE USED FOR PREPARATION OF REPLICATION. IT SHOULD BE FREE OF CONTAMINANTS AND OF A FRIABLE CONSISTENCY AND SUITABLE FOR PLANT GROWTH.
3. PROVIDE ORGANIC WEED FREE COMPOST FROM A LOCAL SOURCE FOR PLANTING BACK FILL AND TOP DRESSING
4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF ENVIRONMENTAL SCIENTIST BEFORE, DURING, AND AFTER INSTALLATION.
5. PLANTING WILL BE CONDUCTED WITH OVERSIGHT BE AN ENVIRONMENTAL SCIENTIST AND PLANTS WILL BE SPACED EVENLY TO THE EXTENT PRACTICABLE.
6. CONTRACTOR SHALL PROVIDE CLEAN WATER, HOSES AND ALL NECESSARY EQUIPMENT FOR WATERING ASSOCIATED WITH THE PLANTING AND SEEDING OPERATIONS.
7. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE REMOVED FROM THE SITE AND REPLACED WITH MATERIAL APPROVED BY THE ENVIRONMENTAL SCIENTIST.
8. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF ACCEPTANCE. CONTRACTOR SHALL REQUEST REVIEW AND FORMAL NOTICE OF ACCEPTANCE IN WRITING. THE CONTRACTOR SHALL MAKE ALL REPLACEMENTS BEFORE THE END OF THE GUARANTEE PERIOD NO LATER THAN THE NEXT GROWING SEASON.
9. REPLACEMENT SCHEDULE AND CONTENT MAY BE ADJUSTED BY MUTUAL AGREEMENT BASED ON PLANTING SEASON AND AVAILABILITY, AS APPROVED BY THE OWNER.



### WETLAND REPLICATION - DETAIL TYPICAL

SCALE: NONE

## K137/L138 SANDY POND TO PRATT JCT & AYER TAP TRANSMISSION LINE OPGW INSTALLATION WETLAND REPLICATION PLANTING PLAN



# Attachment C

K137/L138 Mainline OPGW Installation Project  
Construction Phase  
Ayer, Massachusetts  
Notice of Intent

SITE PHOTOGRAPHS  
WETLAND DELINEATION FORMS





**Photo #1:** View of scrub/shrub wetland AY-W17, along the Ayer Substation fenceline towards Str 14B. Impacts to BVW will include the replacement of Str 14B with an enlarged caisson supported structure. *Facing southwest.*



**Photo #2:** View of emergent wetland AY-W18, looking towards Structures 9/10. No permanent impacts to BVW are proposed. Activities within BVW include in-kind structure replacement (no change in structure footprint), and temporary matting for access and work pads. *Facing southwest.*



**Photo #3:** View of scrub/shrub portion of wetland AY-W24, associated with the impounded James Brook. Impacts to BVW will include the replacement of Str 3 with an enlarged caisson supported structure. *Facing east.*

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: K137 Transmission Line - Geotechnical Soil Borings City/County: Ayer/Middlesex Sampling Date: 8/08/2019  
 Applicant/Owner: New England Power Company d/b/a National Grid State: MA Sampling Point: UP:AYW17  
 Investigator(s): BSC Group, Inc. Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): Terrance Local relief (concave, convex, none): Concave Slope (%): 3-8  
 Subregion (LRR or MLRA): LRR R Lat: 42.565342 Long: -71.592758 Datum: WGS 84  
 Soil Map Unit Name: Deerfield loamy fine sand NWI classification: PSS

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"/>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>AYW-100</u>
Remarks: (Explain alternative procedures here or in a separate report.)   	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <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"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <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)
<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>0</u> Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>0</u> Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: None	
Remarks:	



**VEGETATION** – Use scientific names of plants.

Sampling Point: UP: AYW17

<u>Tree Stratum</u> (Plot size: <u>r=30-ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Absent</u>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
				<b>Prevalence Index worksheet:</b> 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 = _____
_____ =Total Cover				<b>Hydrophytic Vegetation Indicators:</b> ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Sapling/Shrub Stratum</u> (Plot size: <u>r=15-ft</u> )				
1. <u>Absent</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
_____ =Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.   <b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
<u>Herb Stratum</u> (Plot size: <u>r=5-ft</u> )				
1. <u>Digitaria cognata</u>	<u>20</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Rubus flagellaris</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
_____ =Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>r=30-ft</u> )				
1. <u>Absent</u>				
2. _____				
3. _____				
4. _____				
_____ =Total Cover				

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

**SOIL**

Sampling Point: UP: AYW17

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-14	10YR 2/1						Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators:</b>		<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b>	<b>Hydric Soil Present?</b>
Type: <u>Rock</u>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Depth (inches): <u>14</u>	

Remarks:

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: K137 Transmission Line - Geotechnical Soil Borings City/County: Ayer/Middlesex Sampling Date: 8/08/2019  
 Applicant/Owner: New England Power Company d/b/a National Grid State: MA Sampling Point: Wet: AYW17  
 Investigator(s): BSC Group, Inc. Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): Terrance Local relief (concave, convex, none): Concave Slope (%): 0-8  
 Subregion (LRR or MLRA): LRR R Lat: 42.566093 Long: -71.592467 Datum: WGS 84  
 Soil Map Unit Name: Merrimac - Urban Land Complex NWI classification: PSS

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 _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>AYW-100</u>
Remarks: (Explain alternative procedures here or in a separate report.) All 3 parameters have been met.	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply) _____ <input checked="" type="checkbox"/> Surface Water (A1) _____ 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) _____ 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)	<b>Secondary Indicators (minimum of two required)</b> _____ 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)
<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: None	
Remarks: - Hydrology paramter is met	

**VEGETATION** – Use scientific names of plants.

Sampling Point: Wet: AYW17

<u>Tree Stratum</u> (Plot size: <u>r=30-ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Absent</u>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)  Total Number of Dominant Species Across All Strata: <u>6</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
			=Total Cover	<b>Prevalence Index worksheet:</b> 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>r=15-ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Frangula alnus</u>	10	Yes	FAC		
2. <u>Viburnum dentatum</u>	5	Yes	FAC		
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
			=Total Cover		
<u>Herb Stratum</u> (Plot size: <u>r=5-ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Lythrum salicaria</u>	20	Yes	OBL	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is $\leq 3.0^1$ <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Spiraea alba</u>	10	Yes	FACW		
3. <u>Impatiens capensis</u>	10	Yes	FACW		
4. <u>Typha latifolia</u>	5	No	OBL		
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
			=Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>r=30-ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Vitis sp.</u>	5	Yes	FAC	<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.	
2. _____					
3. _____					
4. _____					
			=Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.) - Vegetation parameter is met				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

**SOIL**

Sampling Point: Wet: AYW17

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-14	10YR 2/1						Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)

- Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- High Chroma Sands (S11) (**LRR K, L**)
- Loamy Mucky Mineral (F1) (**LRR K, L**)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (**LRR K, L**)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- Coast Prairie Redox (A16) (**LRR K, L, R**)
- 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- Polyvalue Below Surface (S8) (**LRR K, L**)
- Thin Dark Surface (S9) (**LRR K, L**)
- Iron-Manganese Masses (F12) (**LRR K, L, R**)
- Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b>		<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Type: Rock		
Depth (inches): 14		

Remarks:

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: K137 Transmission Line - Geotechnical Soil Borings City/County: Ayer/Middlesex Sampling Date: 8/08/2019  
 Applicant/Owner: New England Power Company d/b/a National Grid State: MA Sampling Point: UP: AYW24  
 Investigator(s): BSC Group, Inc. Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): Terrance Local relief (concave, convex, none): Concave Slope (%): 3-8  
 Subregion (LRR or MLRA): LRR R Lat: 42.572732 Long: -71.582598 Datum: WGS 84  
 Soil Map Unit Name: Windsor loamy sand NWI classification: PSS

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"/>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: <u>AYW-101A</u>
Remarks: (Explain alternative procedures here or in a separate report.)   	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <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"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <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)
--	--

<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>0</u> Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>0</u> Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
 None

Remarks:

**VEGETATION – Use scientific names of plants.**

Sampling Point: UP: AYW24

<u>Tree Stratum</u> (Plot size: <u>  r=30-ft  </u> )	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>																	
1. <u>Absent</u>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>  0  </u> (A)  Total Number of Dominant Species Across All Strata: <u>  4  </u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>  0.0%  </u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
_____ =Total Cover				<b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="width:50%;"><u>  Total % Cover of:  </u></td> <td style="width:50%;"><u>  Multiply by:  </u></td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = _____</td> </tr> </table>	<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 = _____	
<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 = _____																				
_____ =Total Cover																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>  r=15-ft  </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Elaeagnus umbellata</u>	<u>  10  </u>	<u>  Yes  </u>	<u>  UPL  </u>																	
2. <u>Pinus strobus</u>	<u>  5  </u>	<u>  Yes  </u>	<u>  FACU  </u>																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
_____ =Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>  r=5-ft  </u> )				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.   <b>Hydrophytic Vegetation Present?</b> Yes <u>  ___  </u> No <u>  X  </u>																
1. <u>Anthoxanthum odoratum</u>	<u>  15  </u>	<u>  Yes  </u>	<u>  FACU  </u>																	
2. <u>Schizachyrium scoparium</u>	<u>  15  </u>	<u>  Yes  </u>	<u>  FACU  </u>																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
_____ =Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: <u>  r=30-ft  </u> )																				
1. <u>Absent</u>																				
2. _____																				
3. _____																				
4. _____																				
_____ =Total Cover																				

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

**SOIL**

Sampling Point: UP: AYW24

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 3/2						Sandy	
10-18	10YR 4/4						Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soil Present?**    Yes     No

Remarks:



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: K137 Transmission Line - Geotechnical Soil Borings City/County: Ayer/Middlesex Sampling Date: 8/08/2019  
 Applicant/Owner: New England Power Company d/b/a National Grid State: MA Sampling Point: Wet: AYW24  
 Investigator(s): BSC Group, Inc. Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): Terrance Local relief (concave, convex, none): Concave Slope (%): 0-5  
 Subregion (LRR or MLRA): LRR R Lat: 42.572859 Long: -71.582324 Datum: WGS 84  
 Soil Map Unit Name: Wareham loamy fine sand 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 _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>AYW-101A</u>
Remarks: (Explain alternative procedures here or in a separate report.) All 3 parameters have been met.	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply) _____ <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <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)
--	--

<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>0</u> Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>0</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
 None

Remarks:  
 - Hydrology paramter is met

**VEGETATION – Use scientific names of plants.**

Sampling Point: Wet: AYW24

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum</b> (Plot size: <u>r=30-ft</u> )																				
1. <u><i>Acer rubrum</i></u>	10	Yes	FAC	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A)  Total Number of Dominant Species Across All Strata: <u>9</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>55.6%</u> (A/B)																
2. <u><i>Pinus strobus</i></u>	10	Yes	FACU																	
3. <u><i>Betula papyrifera</i></u>	5	Yes	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	25	=Total Cover		<b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="width:50%; text-align:center;">Total % Cover of:</td> <td style="width:50%; text-align:center;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = _____</td> </tr> </table>	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 = _____	
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 = _____																				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>r=15-ft</u> )																				
1. <u><i>Elaeagnus umbellata</i></u>	10	Yes	UPL	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	10	=Total Cover																		
<b>Herb Stratum</b> (Plot size: <u>r=5-ft</u> )																				
1. <u><i>Juncus effusus</i></u>	15	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  <b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																
2. <u><i>Solidago sp.</i></u>	15	Yes	FAC																	
3. <u><i>Impatiens capensis</i></u>	10	Yes	FAC																	
4. <u><i>Lythrum salicaria</i></u>	10	Yes	OBL																	
5. <u><i>Daucus carota</i></u>	10	Yes	UPL																	
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	60	=Total Cover																		
<b>Woody Vine Stratum</b> (Plot size: <u>r=30-ft</u> )																				
1. <u>Absent</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____																
2. _____																				
3. _____																				
4. _____																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)  
 - Vegetation parameter is met

SOIL

Sampling Point: Wet: AYW24

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 2/2		2.5Y 5/2	10	C	PL	Loamy/Clayey	Prominent redox concentrations

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)

- Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- High Chroma Sands (S11) (**LRR K, L**)
- Loamy Mucky Mineral (F1) (**LRR K, L**)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- Coast Prairie Redox (A16) (**LRR K, L, R**)
- 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- Polyvalue Below Surface (S8) (**LRR K, L**)
- Thin Dark Surface (S9) (**LRR K, L**)
- Iron-Manganese Masses (F12) (**LRR K, L, R**)
- Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soil Present?**      Yes       No

Remarks:  
 redox features/oxidized rhizomes present

# Attachment D

K137/L138 Mainline OPGW Installation Project  
Construction Phase  
Ayer, Massachusetts  
Notice of Intent

ABUTTERS NOTIFICATION LETTER  
CERTIFIED LIST OF ABUTTERS  
AFFIDAVIT OF SERVICE



**Notification to Abutters per the Massachusetts Wetlands Protection Act  
and the Town of Ayer Wetlands Protection Bylaw**

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following:

A. The name of the applicant is: New England Power Company (NEP) Attn: Kellie Doherty

B. The name of the land owner is Various - NEP electrical utility easement

C. The address of the lot where the resource area is located or activity is proposed is:  
K137/L138 Transmission Line right-of-way between: Groton-Shirley Rd. and Westford Rd. - (Mainline), and between Ayer Substation and the K137/L138 mainline ROW (Tap line to Ayer Substation).

D. The applicant has filed: (check one)

- Notice of Intent                       Request for an Amendment to an Order of Conditions  
 Abbreviated Notice of Intent             Abbreviated Notice of Resource Area Delineation

The applicant has filed the above application with the Ayer Conservation Commission and is seeking:

- confirmation of resource area delineation, or  
 permission to remove, fill, dredge or alter an Area Subject to Protection under the Wetlands Protection Act (Massachusetts General Law Chapter 131, Section 40).

E. Copies of the above referenced document/filing may be examined at the Conservation Commission Office, Town Hall, 1 Main Street, Ayer, MA, between the hours of 10:00 a.m. and 1:00 p.m., Wednesdays and Fridays. Please schedule an appointment by calling (978) 772-8249.

F. Copies of the above referenced document/filing may be obtained from: (check one)

- Applicant (contact information: \_\_\_\_\_)  
 Owner (contact information: \_\_\_\_\_)  
 Applicant's Representative (contact information: Alison Milliman: amilliman@bscgroup.com; (617) 896-4532)  
 Ayer Conservation Administrator 978-772-8249 (Wednesdays & Fridays 9:30a.m.-1:30p.m.)

G. Project Description:

NEP is proposing to conduct maintenance and improvement activities associated with the K137/L138 Transmission Line Right-of-Way (ROW) in Ayer, Massachusetts (the Project). The purpose of the Project is to refurbish and install overhead optical ground wire (OPGW). Activities will include access road widening and improvements, and the replacement of 26 structures located within jurisdictional resource areas and/or their buffer zones. Resource areas impacted include Bordering Vegetated Wetlands (BVW), 100-ft Buffer Zone to BVW, 200-ft Riverfront Area (RA), FEMA 100-Year Floodplain/Bordering Land Subject to Flooding (BLSF), Land Under Water (LUW), Vernal Pools, Areas of Critical Environmental Concern (ACEC), and Natural Heritage Endangered Species Program (NHESP) Priority/Estimated Habitat. Activities are also proposed within the locally regulated 50-ft No Disturb Zone.

Note: Notice of the public hearing, including its date, time, and place, will be published at least five (5) business days prior to the hearing date in either *The Public Spirit* or *The Lowell Sun* newspapers. Such notice will also be posted at the Ayer Town Hall no fewer than forty-eight (48) hours in advance of the meeting.

Note: You also may contact the Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act at (508) 792-7650.



**Board of Assessors  
Town Hall  
1 Main Street  
Ayer, MA 01432**

Tel: (978) 772-8220 ext. 14  
Email: [assessor@ayer.ma.us](mailto:assessor@ayer.ma.us)

December 14, 2021

**ABUTTERS LIST FOR PARCEL(s): Multiple  
Owners(s) : New England Power (NEP)**

#	Parcel ID	Sino	Sino2	Property Location	Owners Name1	Owners Name2	Address1	Address2	City/Town	State	Zip Code
1	10-1	0		FITCHBURG ROAD	COMMONWEALTH OF MASSACHUSETTS		PROPERTY DIVISION		BOSTON	MA	00000
2	11-1	95		FITCHBURG ROAD	WOODLE HENRY T & DOROTHY J - TR		74 WENMISSET ROAD		GROTON	MA	01450
3	11-3	0	OFF	FITCHBURG ROAD	COMMONWEALTH OF MASSACHUSETTS		251 CAUSEWAY STREET SUITE 40		BOSTON	MA	02114
4	11-4	0		FITCHBURG ROAD	COMMONWEALTH OF MASSACHUSETTS		251 CAUSEWAY STREET	SUITE 400	BOSTON	MA	02114
5	11-5	0		FITCHBURG ROAD	OWNER UNKNOWN						
6	11-52	87		FITCHBURG ROAD	CAPATTEC INC		87 FITCHBURG ROAD	PO BOX 816	AYER	MA	01432
7	11-54	95	A	FITCHBURG ROAD	WOODLE HENRY T & DOROTHY J - TR		PO BOX 359		AYER	MA	01432
8	11-68	0	OFF	FITCHBURG ROAD	CAPATTEC INC		87 FITCHBURG ROAD	PO BOX 816	AYER	MA	01432
9	1-2	111		FITCHBURG ROAD	WATT PHNOM SEREINE INC		111 FITCHBURG ROAD		AYER	MA	01432
10	12-1	0		PLEASANT STREET	COMFIELD REALTY TRUST II		39 MAIN STREET	SUITE 204	AYER	MA	01432
11	12-106	114		PLEASANT STREET EXT	DELORE MATTHEW K - TE		114 PLEASANT STREET		AYER	MA	01432
12	12-116	0	REAR	JONATHAN DRIVE	NEW ENGLAND POWER CO		40 SYLVAN ROAD		AYER	MA	01432
13	12-123	9		DOUG ROAD	REZENDES SCOTT J - TE		9 DOUG ROAD		WALTHAM	MA	02451
14	12-124	0	OFF	JONATHAN DRIVE	MOORE GEORGE V		39 MAIN STREET SUITE 204		AYER	MA	01432
15	12-125	10		DOUG ROAD	ANDRES JOHN L - TE		10 DOUG ROAD		AYER	MA	01432
16	12-135	14		GARDNER LANE	WHITE RUBIE L		14 GARDNER LANE		AYER	MA	01432
17	12-136	16		GARDNER LANE	RUPO CORY MICHAEL		16 GARDNER LANE		AYER	MA	01432
18	12-137	18		GARDNER LANE	CREAMER BONNIE A		18 GARDNER LANE		AYER	MA	01432
19	12-138	15		GARDNER LANE	MORRISON JAMES P - TE		15 GARDNER LANE		AYER	MA	01432
20	12-139	13		GARDNER LANE	BUTLER DARRYL S - TE		13 GARDNER LANE		AYER	MA	01432
21	12-140	11		GARDNER LANE	MESSCHER DAVID J - TE		11 GARDNER LANE		AYER	MA	01432
22	12-141	9		GARDNER LANE	TOTA CHRISTOPHER - TE		9 GARDNER LANE		AYER	MA	01432
23	12-142	7		GARDNER LANE	FORD RODNEY A - TE		7 GARDNER LANE		AYER	MA	01432
24	12-143	5		GARDNER LANE	FISH STEPHEN J - TE		5 GARDNER LANE		AYER	MA	01432
25	12-146	2		SHADOW LANE	WELCH THEODORE W		2 SHADOW LANE		AYER	MA	01432
26	12-147	4		SHADOW LANE	CHHOEUN CHARLES		4 SHADOW LANE		AYER	MA	01432
27	12-148	6		SHADOW LANE	ZHANG YINAN - TE		5 GREENWOOD AVENUE		AYER	MA	01432
28	12-149	2		RILEY JAYNE LANE	RUSSELL KATRINA L		2 RILEY JAYNE LANE		MONMOUTH JCT	NJ	08852
29	12-150	3		RILEY JAYNE LANE	KAYLA N GALLAGHER		3 RILEY JAYNE LANE		AYER	MA	01432
30	12-151	120		PLEASANT STREET EXT	CHARLOTTE WARD		120 PLEASANT STREET EXT		AYER	MA	01432
31	12-152	122		PLEASANT STREET EXT	FRANCIS MUNGAI		122 PLEASANT STREET EXT		AYER	MA	01432
32	12-153	124		PLEASANT STREET EXT	SEAL HARBOR LLC		1 MAGOG PARK		AYER	MA	01432
33	12-154	123		PLEASANT STREET EXT	SEAL HARBOR LLC		1 MAGOG PARK		AYER	MA	01432
34	12-155	121		PLEASANT STREET EXT	SEAL HARBOR LLC		1 MAGOG PARK		AYER	MA	01432
35	12-156	0		PLEASANT STREET EXT	SEAL HARBOR LLC		1 MAGOG PARK		AYER	MA	01432
36	12-157	2		TREVOR TRAIL	DAIGLE DONNA E - TR		2 TREVOR TRAIL		AYER	MA	01432
37	12-158	4		TREVOR TRAIL	VOJKOVSKY LIBOR		4 TREVOR TRAIL		AYER	MA	01432
38	12-159	7		TREVOR TRAIL	FERRAGAMO MICHAEL		7 TREVOR TRAIL		AYER	MA	01432
39	12-160	5		TREVOR TRAIL	ROSS KYLE - TE		5 TREVOR TRAIL		AYER	MA	01432
40	12-161	1		TREVOR TRAIL	BOISVERT ROBERT M - TE		1 TREVOR TRAIL		AYER	MA	01432
41	12-162	0		TREVOR TRAIL	RILEY JAYNE FARM LLC		12 LAWTON ROAD		AYER	MA	01464
42	12-2	0		GROTON SCHOOL ROAD	NEW ENGLAND POWER CO		PROPERTY TAX DEPT		WALTHAM	MA	02451
43	12-24	25		GROTON SCHOOL ROAD	COLLINS ROBERT L REVOCABLE TRUST		PO BOX 2081	40 SYLVAN ROAD	WESTFORD	MA	01886



**Board of Assessors  
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**ABUTTERS LIST FOR PARCEL(S): Multiple  
Owners(s): New England Power (NEP)**

#	Parcel ID	Sino	Sino2	Property Location	Owners Name1	Owners Name2	Address1	Address2	City/Town	State	Zip Code
44	12-25	11		GROTON SCHOOL ROAD	KENDRA J DUMONT		11 GROTON SCHOOL ROAD #21		AYER	MA	01432
45	12-26	0	REAR	GROTON SCHOOL ROAD	NEW ENGLAND POWER CO		PROPERTY TAX DEPT	40 SYLVANROAD	WALTHAM	MA	02451
46	12-56	14		VICTOR DRIVE	VITTA FRANK S		71 WALKER ROAD		SHIRLEY	MA	01464
47	12-58	29		JONATHAN DRIVE	GOWDER JOAN M		29 JONATHAN DRIVE		AYER	MA	01432
48	12-72	11		VICTOR DRIVE	JOY DANIEL N - TE		11 VICTOR DRIVE		AYER	MA	01432
49	12-78	22		JONATHAN DRIVE	TURAKA GAVATHRI R		22 JONATHAN DRIVE		AYER	MA	01432
50	12-81	9		JONATHAN DRIVE	HEFFERMAN MEGAN M		9 JONATHAN DRIVE		AYER	MA	01432
51	12-82	11		JONATHAN DRIVE	FULLER SALLY J - L/E		11 JONATHAN DRIVE		AYER	MA	01432
52	12-83	13		JONATHAN DRIVE	COLLER MELISSA S		13 JONATHAN DRIVE		AYER	MA	01432
53	12-85	17		JONATHAN DRIVE	GUICHARD RICHARD L - TE		17 JONATHAN DRIVE		AYER	MA	01432
54	12-86	19		JONATHAN DRIVE	PETERS GERALD R - TE		19 JONATHAN DRIVE		AYER	MA	01432
55	12-87	21		JONATHAN DRIVE	WEEKS ROBERT		21 JONATHAN DRIVE		AYER	MA	01432
56	12-88	23		JONATHAN DRIVE	MALLORY MARIE E		23 JONATHAN DRIVE		AYER	MA	01432
57	12-89	25		JONATHAN DRIVE	GORDON KYLE R - TE		25 JONATHAN DRIVE		AYER	MA	01432
58	12-90	27		JONATHAN DRIVE	MITCHELL WILFRED P - TE		27 JONATHAN DRIVE		AYER	MA	01432
59	12-91	17		TAFT STREET	MAXXANT-SCHULZ RUTH L		17 TAFT STREET		AYER	MA	01432
60	12-93	112		PLEASANT STREET EXT	WATSON JOHN C - TE		112 PLEASANT STREET		AYER	MA	01432
61	1-3	99		FITCHBURG ROAD	99 FITCHBURG ROAD LLP		99 FITCHBURG ROAD		AYER	MA	01432
62	13-1	0		WASHINGTON STREET	TRIPLE AE GROUP LLC		2890 HEATHER WAY		ANN ARBOR	MI	48104
63	13-12	0		WASHINGTON STREET	AYER DEVELOPMENT LLC		159-1 PROSPECT STREET		ACTON	MA	01720
64	13-13	0	REAR	WASHINGTON STREET	AYER DEVELOPMENT LLC		159-1 PROSPECT STREET		ACTON	MA	01720
65	13-18	0		WASHINGTON STREET	NEW ENGLAND POWER CO		PROPERTY TAX DEPT	40 SYLVANROAD	WALTHAM	MA	02451
66	13-19	0		WASHINGTON STREET	FLAGG MARY C		152 WASHINGTON ST		AYER	MA	01432
67	13-2	0		WASHINGTON STREET	TRIPLE AE GROUP LLC		2690 HEATHER WAY		ANN ARBOR	MI	48104
68	13-20	14		MOORE DRIVE	ROLLINS BETTY J - L/E		14 MOORE DRIVE		AYER	MA	01432
69	13-21	12		MOORE DRIVE	ROPER GAM J - TE		12 MOORE DRIVE		AYER	MA	01432
70	13-22	10		MOORE DRIVE	WITHERROW RICHARD J JR - TE		10 MOORE DRIVE		AYER	MA	01432
71	13-23	8		MOORE DRIVE	SHEEHAN THOMAS		8 MOORE DRIVE		AYER	MA	01432
72	13-27	9		MOORE DRIVE	MULONE L JOHN - TE		9 MOORE DRIVE		AYER	MA	01432
73	13-28	7		MOORE DRIVE	WARILA LANCE - JT		7 MOORE DRIVE		AYER	MA	01432
74	13-3	5		MOORE DRIVE	EBERLE MATTHEW W - TE		5 MOORE DRIVE		AYER	MA	01432
75	13-3	0		GROTON HARVARD ROAD	TOWN OF AYER		1 MAIN ST		AYER	MA	01432
76	13-32	148		WASHINGTON STREET	BOLTON PHILLIP S		148 WASHINGTON STREET		AYER	MA	01432
77	13-33	150		WASHINGTON STREET	KILBRETH MERIAM P		150 WASHINGTON STREET		AYER	MA	01432
78	13-34	152		WASHINGTON STREET	FLAGG MARY C		152 WASHINGTON STREET		AYER	MA	01432
79	13-35	154		WASHINGTON STREET	JONES PAGANI		154 WASHINGTON STREET		AYER	MA	01432
80	13-36	156		WASHINGTON STREET	DECOURCEY JOHN		156 WASHINGTON STREET		AYER	MA	01432
81	13-4	0		WASHINGTON STREET	ELIADES DAVID J - TE		199 OLD GROTON ROAD		AYER	MA	01432
82	13-5	0		WASHINGTON STREET	OWNER UNKNOWN						
83	13-6	0		GROTON HARVARD ROAD	NEW ENGLAND POWER CO			40 SYLVAN ROAD	WALTHAM	MA	02451
84	13-8	0		GROTON HARVARD ROAD	BURNHAM ANDREW W - TE				AYER	MA	01432
85	13-9	3		TREVOR TRAIL	STEEMAN ROBERTS A - TE		52 FLETCHER STREET		AYER	MA	01432
86	1-4	0		FITCHBURG ROAD	COMMONWEALTH OF MASSACHUSETTS		3 TREVOR TRAIL PROPERTY DIVISION		AYER BOSTON	MA MA	00000

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December 14, 2021

**ABUTTERS LIST FOR PARCEL(S) - Multiple  
Owners(s) - New England Power (NEP)**

#	Parcel ID	Sino	Sino2	Property Location	Owners Name1	Owners Name2	Address1	Address2	City/Town	State	Zip Code
87	14-1	0		SNAKE HILL ROAD	AYER GUN & SPORTSMANS CLUB		255 SNAKE HILL ROAD		AYER	MA	01432
88	14-2	0		SNAKE HILL ROAD	AYER GUN & SPORTSMANS CLUB		255 SNAKE HILL ROAD		AYER	MA	01432
89	14-3	0		GROTON HARVARD ROAD	TOWN OF AYER		1 MAIN ST		AYER	MA	01432
90	14-4	0		SNAKE HILL ROAD	AYER GUN & SPORTSMANS CLUB		255 SNAKE HILL ROAD		AYER	MA	01432
91	14-6	240		SNAKE HILL ROAD	FILLEBROWN DAVID L - TR	NANCY C FILLEBROWN - TR	DAVE & NANCY FILLEBROWN TRU 240 SNAKE HILL ROAD		AYER	MA	01432
92	14-7	0		SNAKE HILL ROAD	AYER GUN & SPORTSMANS CLUB		255 SNAKE HILL ROAD		AYER	MA	01432
93	14-8	6		WRIGHT ROAD	ELMORE JULIE L		6 WRIGHT ROAD		AYER	MA	01432
94	14-9	1		WRIGHT ROAD	CLEARY BRUCE R - TE	LIDIA G CLEARY	1 WRIGHT ROAD		AYER	MA	01432
95	1-5	0		FTCHBURG ROAD	99 FITCHBURG ROAD LLP		99 FITCHBURG RD		AYER	MA	01432
96	15-1	0		WRIGHT ROAD	AYER GUN & SPORTSMANS CLUB		255 SNAKE HILL ROAD		AYER	MA	01432
97	15-10	32		WRIGHT ROAD	UNCH JACQUELINE - TE	HARRY ZANIE III	32 WRIGHT ROAD		AYER	MA	01432
98	15-11	42		WRIGHT ROAD	DONELL GUY J & DONNA W - TR	DONELL FAMILY TRUST	42 WRIGHT ROAD		AYER	MA	01432
99	15-12	44		WRIGHT ROAD	COWLEY THOMAS H - TE	HEIDI L COWLEY	130 SANDY POND ROAD	PO BOX 314	AYER	MA	01432
100	15-13	46		WRIGHT ROAD	REGAN JEREMY D	JILLIAN K REGAN	46 WRIGHT ROAD		AYER	MA	01432
101	15-2	0		WRIGHT ROAD	TOWN OF AYER		1 MAIN ST		AYER	MA	01432
102	15-3	130		SANDY POND ROAD	COWLEY THOMAS H - TR	SANDY POND ROAD REALTY TRUST	130 SANDY POND ROAD		AYER	MA	01432
103	15-4	0		SNAKE HILL ROAD	AYER GUN & SPORTSMANS CLUB		255 SNAKE HILL ROAD		AYER	MA	01432
104	15-63	34		WRIGHT ROAD	TIMMINS JAMES E - TE	PATRICIA E TIMMINS	34 WRIGHT ROAD		AYER	MA	01432
105	15-64	36		WRIGHT ROAD	O'CALLAGHAN JOHN J - TE	MARY C O'CALLAGHAN	36 WRIGHT ROAD		AYER	MA	01432
106	1-6	0		FTCHBURG ROAD	99 FITCHBURG ROAD LLP		99 FITCHBURG RD		AYER	MA	01432
107	16-5	0		MAGNOLIA DRIVE (END)	COWLEY THOMAS H - TE	HEIDI L COWLEY	130 SANDY POND ROAD		AYER	MA	01432
108	16-75	7		MAGNOLIA DRIVE	NISHI YUICHI		7 MAGNOLIA DRIVE		AYER	MA	01432
109	16-8	0		WESTFORD ROAD (REAR)	COWLEY THOMAS - TE	HEIDI L COWLEY	130 SANDY POND ROAD		AYER	MA	01432
110	16-88	1		WINTERBERRY LANE	ALI FADIYA	REVAUD ALI	1 WINTERBERRY LANE		AYER	MA	01432
111	16-89	3		WINTERBERRY LANE	SUBRAMONY SENEPATHY	SHANTI SUBRAMONY	3 WINTERBERRY LANE		AYER	MA	01432
112	16-90	5		WINTERBERRY LANE	SCHULZ CHRISTOF - TE	ELIZA G SCHULZ	12 CHESTNUT STREET		AYER	MA	01720
113	16-91	7		WINTERBERRY LANE	MCCLOSKEY DANIEL	PATRICIA MCCLOSKEY	7 WINTERBERRY LANE		AYER	MA	01432
114	16-92	6		WINTERBERRY LANE	PLAMONDON STEVEN D - TE	AMY E PLAMONDON	6 WINTERBERRY LANE		AYER	MA	01432
115	16-93	4		WINTERBERRY LANE	KORONIS PETER C - TE	LILLIAN Y KORONIS	4 WINTERBERRY LANE		AYER	MA	01432
116	1-7	0		FTCHBURG ROAD	99 FITCHBURG ROAD LLP		99 FITCHBURG RD		AYER	MA	01432
117	18-5	0		BISHOP ROAD	ROMAN CATHOLIC ARCHBISHOP OF BOSTON		29 SHIRLEY ST		AYER	MA	01432
118	19-10	0		BISHOP ROAD	NEW ENGLAND POWER CO		PROPERTY TAX DEPT	40 SYLVAN ROAD	WALTHAM	MA	02451
119	19-11	0		PARK STREET	NEW ENGLAND POWER CO		PROPERTY TAX DEPT	40 SYLVAN ROAD	WALTHAM	MA	02451
120	19-12	0		PARK STREET	NEW ENGLAND POWER CO		PROPERTY TAX DEPT	40 SYLVAN ROAD	WALTHAM	MA	02451
121	19-13	0		BROOK STREET	MAXANT-SCHULZ RUTH L		17 TAFT STREET		AYER	MA	01432
122	19-15	72		PARK STREET	IC FEDERAL CREDIT UNION	ATTN: ACCOUNTS PAYABLE	300 BELMIS ROAD		FITCHBURG	MA	01420
123	19-16	60	70	PARK STREET	ROSEWOOD AVENUE LLC		75 GROTON SCHOOL ROAD		AYER	MA	01432
124	19-17	54		PARK STREET	TOWN OF AYER		1 MAIN ST		AYER	MA	01432
125	19-18	0		PARK STREET	JANUSKIEWICZ ANN F - TR	JANUSKIEWICZ INVESTMENT TRUST	46 PLEASANT STREET		AYER	MA	01432
126	19-19	103		PARK STREET	HIGGINS ROBERT C		41 LEXINGTON CIRCLE		AYER	MA	01453
127	19-198	5	7	BISHOP ROAD	R & M REALTY LLP		5 BISHOP ROAD		AYER	MA	01432
128	19-199	1		BISHOP ROAD	UCC LLC		1 BISHOP ROAD		AYER	MA	01432
129	19-20	101		PARK STREET	FRIOT ALAN H - TE	HELEN L FRIOT	1220 DE-NARVAEZ AVENUE		BRAEDENTON	FL	34209

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December 14, 2021

**ABUTTERS LIST FOR PARCEL(S): Multiple  
Owners(s): New England Power (NEP)**

#	Parcel ID	Sino	Sino2	Property Location	Owners Name1	Owners Name2	Address1	Address2	City/Town	State	Zip Code
130	19-200-1	100		PARK STREET #1	RED PROPERTIES LLC		109 MATWANAKEE TRAIL		LITTLETON	MA	01460
131	19-200-2	100		PARK STREET #2	MURPHY DANIEL		100 PARK STREET #2		AYER	MA	01432
132	19-200-3	100		PARK STREET #3	DOCHERTY DENNIS	CAROL A DOCHERTY	96 BOX MILL ROAD		BOXBOROUGH	MA	01719
133	19-200-4	100		PARK STREET #4	MCNIFF JAMES R - TR	JANCO REALTY TRUST	PO BOX 924		LITTLETON	MA	01460
134	19-200-6	100		PARK STREET #6	FROUNJIAN MARK - JT	SARRIS FROUNJIAN	25 CYPRESS STREET		WATERTOWN	MA	02172
135	19-203	3		GROTON SCHOOL ROAD	JANUSKIEWICZ CODY J		3 GROTON SCHOOL ROAD		AYER	MA	01432
136	19-204	105		PARK STREET	SWANFELDT KARIN E - TE	DANIEL J SWANFELDT	106 PARK STREET		AYER	MA	01432
137	19-21	0		PARK STREET	NEW ENGLAND POWER CO		PROPERTY TAX DEPT		WALTHAM	MA	02451
138	19-22	0	REAR	PARK STREET	NEW ENGLAND POWER CO		PROPERTY TAX DEPT		WALTHAM	MA	02451
139	19-23	0		PARK STREET	NEW ENGLAND POWER CO		PROPERTY TAX DEPT		WALTHAM	MA	02451
140	19-24	0		PARK STREET	TOWN OF AYER		1 MAIN STREET		AYER	MA	01432
141	19-25	0		PARK STREET	JANUSKIEWICZ ANN F - TR		46 PLEASANT STREET		AYER	MA	01432
142	19-26-1	75		PARK STREET #1	HORANYI PETER		75 PARK STREET #1		AYER	MA	01432
143	19-26-2	75		PARK STREET #2	HEINLE-KIMBALL DAWN M		75 PARK STREET #2		AYER	MA	01432
144	19-27	0		PARK STREET	JANUSKIEWICZ ANN F - TR	JANUSKIEWICZ INVESTMENT TRUST	46 PLEASANT STREET		AYER	MA	01432
145	19-28	0		PARK STREET	JANUSKIEWICZ ANN F - TR	JANUSKIEWICZ INVESTMENT TRUST	46 PLEASANT STREET		AYER	MA	01432
146	19-29	0		PARK STREET	JANUSKIEWICZ ANN F - TR	JANUSKIEWICZ INVESTMENT TRUST	46 PLEASANT STREET		AYER	MA	01432
147	19-32	88		PEARL STREET	SIERKMAN WILLIAM A JR - TE	PATRICIA SIERKMAN	68 PEARL STREET		AYER	MA	01432
148	19-33	66		PEARL STREET	PELLETIER KASEY M	ARRON D WITKUS	66 PEARL STREET		AYER	MA	01432
149	19-34	64		PEARL STREET	CONWAY RYAN - TE	ASHLEY S CONWAY	64 PEARL STREET		AYER	MA	01432
150	19-35	62		PEARL STREET	RICHARD JOSHUA - TR	62 PEARL STREET REALTY TRUST	62 PEARL STREET		AYER	MA	01432
151	19-36	60		PEARL STREET	NASCIMENTO KISSINGER S - TE	MILENE D NASCIMENTO	60 PEARL STREET		AYER	MA	01432
152	19-37	58		PEARL STREET	COOPER ROWLAND III - TE	RITA A COOPER	58 PEARL STREET		AYER	MA	01432
153	19-38	56		PEARL STREET	WESLEY M LUCE		56 PEARL STREET		AYER	MA	01432
154	19-39	54		PEARL STREET	KRUM DAVID LEE		54 PEARL STREET		AYER	MA	01432
155	19-40	52		PEARL STREET	HENDERSON MATTHEW W - TE		52 PEARL STREET		AYER	MA	01432
156	19-41	50		PEARL STREET	EGAN TRACY L		50 PEARL STREET		AYER	MA	01432
157	19-42	0	REAR	PEARL STREET	MAPLE SUGAR LLC		SUITE 204		ORLEANS	MA	02653
158	19-44	48		PEARL STREET	GUARINO ARMAND A - TR	48 PEARL STREET REALTY TRUST	PO BOX 2024		AYER	MA	01432
159	19-45	46		PEARL STREET	SMITH SARAH K - TE	ROBERT DAVIDSON	46 PEARL STREET		AYER	MA	01432
160	19-45	9		BISHOP ROAD	BISHOP ROAD INC		9 BISHOP ROAD		AYER	MA	01432
161	20-1	115		WASHINGTON STREET	TOWN OF AYER		1 MAIN ST		AYER	MA	01432
162	20-3	51	53	GROTON HARVARD ROAD	WESLEY JOHN H	LINDA J WESLEY	41 GROTON HARVARD RD		AYER	MA	01432
163	20-44	22		OAK RIDGE DRIVE	KELLEY EDWARD H - TE	PENELOPE H KELLEY	20 OAK RIDGE DRIVE		AYER	MA	01432
164	20-47	20		OAK RIDGE DRIVE	BARNES VIOLA B - TR		22 OAK RIDGE DRIVE		AYER	MA	01432
165	20-61	58		GROTON HARVARD ROAD	CHARIN BRADFORD G	CATHERINE A PRAATT	58 GROTON HARVARD ROAD		AYER	MA	01432
166	2-1	0		GROTON SHIRLEY ROAD	COMMONWEALTH OF MASSACHUSETTS		PROPERTY DIVISION		BOSTON	MA	00000
167	2-10	80		GROTON SHIRLEY ROAD	COMMONWEALTH OF MASSACHUSETTS		PROPERTY DIVISION		BOSTON	MA	00000
168	2-11	0		GROTON SHIRLEY ROAD	ECKEL INDUSTRIES INC		PROPERTY DIVISION		BOSTON	MA	01432
169	21-100	32		CALVIN STREET EXT	COMMONWEALTH OF MASSACHUSETTS	MELISSA K STEEVES	32 CALVIN STREET EXT		AYER	MA	01432
170	21-101	34		CALVIN STREET EXT	STEEVES JAMES R - TE	JULIE MASON LACEY	34 CALVIN STREET EXT		AYER	MA	01432
171	21-103	41		PINE RIDGE DRIVE	LACEY NEIL F - TE	TERRY R RUSSELLER	41 PINE RIDGE DRIVE		AYER	MA	01432
172	2-12	0		GROTON SHIRLEY ROAD	WHALEN JOHN M - TE	PROPERTY TAX DEPT	40 SYLVAN ROAD		WALTHAM	MA	02451

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December 14, 2021

## ABUTTERS LIST FOR PARCEL(S): Multiple Owners(s): New England Power (NEP)

#	Parcel ID	Smo	Smo2	Property Location	Owners Name1	Owners Name2	Address1	Address2	City/Town	State	Zip Code
173	2-13	0	REAR	OAKHURST AVENUE	COMMONWEALTH OF MASSACHUSETTS	PROPERTY DIVISION	PROPERTY TAX DEPT	40 SYLVAN ROAD	BOSTON	MA	00000
174	2-14	0		GROTON SHIRLEY ROAD	NEW ENGLAND POWER CO		1 MAIN STREET		WALTHAM	MA	02451
175	21-46	0		OAK RIDGE DRIVE	TOWN OF AYER		77 PINE RIDGE DRIVE		AYER	MA	01432
176	21-47	77		PINE RIDGE DRIVE	YOUNG STEPHEN B - TE	JIN HONG YOUNG	138 CENTRAL AVENUE		AYER	MA	01432
177	21-48	0		FLETCHER'S POND	HADLEY ROBERT E		42 PINE RIDGE DRIVE		AYER	MA	01432
178	21-49	42		PINE RIDGE DRIVE	LANGEN PAUL JR		PROPERTY TAX DEPT	40 SYLVAN ROAD	AYER	MA	01432
179	2-15	0		GROTON SCHOOL ROAD	NEW ENGLAND POWER CO				WALTHAM	MA	02451
180	21-50	44		PINE RIDGE DRIVE	KUKTA KAREN L - TE	KURT HANSS	44 PINE RIDGE DRIVE		AYER	MA	01432
181	21-51	43		PINE RIDGE DRIVE	COTTER RACHEL L	GREGORY M COTTER	150 OAK RIDGE DRIVE		AYER	MA	01432
182	21-52	150		OAK RIDGE DRIVE	PERSAKIS CONSTANTINOS - TE	ELVIA PERSAKIS	1 KEEFE ROAD		AYTON	MA	01720
183	21-53	148		OAK RIDGE DRIVE	LENOX ASSOCIATES LLC		138 OAK RIDGE DRIVE		AYER	MA	01432
184	21-58	138		OAK RIDGE DRIVE	BARR DAVID P - TE	DAWN M BARR	33 PINE RIDGE DRIVE		AYER	MA	01432
185	21-59	33		PINE RIDGE DRIVE	CAREY V GROUCHER - TE	CRYSTAL J CAREY	4 PIERCE AVENUE #A		AYER	MA	01432
186	21-6	4		PIERCE AVENUE	ROGERS DAVID A	ALAN E & LOUISE M ROGERS - LE	84 OFF GROTON SCHOOL ROAD		AYER	MA	01432
187	2-16	84	5	OFF GROTON SCHOOL ROAD	DANIEL M ROSSEEL		30 PINE RIDGE DRIVE		AYER	MA	01432
188	21-60	30		PINE RIDGE DRIVE	WRIGHT JOHN D		31 PINE RIDGE DRIVE		AYER	MA	01432
189	21-61	31		PINE RIDGE DRIVE	BERGEVIN ADAM J		153 OAK RIDGE DRIVE		AYER	MA	01432
190	21-62	153		OAK RIDGE DRIVE	BHOWMICK SOURIK	HEATHER M BHOWMICK	151 OAK RIDGE DRIVE		AYER	MA	01432
191	21-63	151		OAK RIDGE DRIVE	ROBERT E ELDRIDGE		238 SNAKE HILL ROAD		AYER	MA	01432
192	21-7	238		SNAKE HILL ROAD	FILEBROWN CRAIG D		82 GROTON SCHOOL ROAD		AYER	MA	01432
193	2-17	82		GROTON SCHOOL ROAD	ROBERT E ERNST	MASIEL O LOPEZ-HUBBARD	36 PINE RIDGE DRIVE		AYER	MA	01432
194	21-77	38		PINE RIDGE DRIVE	HUBBARD JASON - TE	SHERRIE J CROSSMAN	39 CALVIN STREET EXT		AYER	MA	01432
195	21-78	36		PINE RIDGE DRIVE	CROSSMAN MICHAEL C	PAULA GRAVELLE	237 SNAKE HILL RD		AYER	MA	01432
196	21-79	39		CALVIN STREET EXT	GRAVELLE PETER A - TE		37 CALVIN STREET EXT		AYER	MA	01432
197	21-8	237		SNAKE HILL ROAD	FLYNN GERALDINE C		35 CALVIN STREET EXT		AYER	MA	01432
198	21-80	37		CALVIN STREET EXT	GRAVELLE KIMBERLY E	HEATHER L CONRY	33 CALVIN STREET EXT		AYER	MA	01432
199	21-81	35		CALVIN STREET EXT	CONRY JASON A - TE	RAQUEL G CLANCY	2 BLUEBERRY CIRCLE		AYER	MA	01432
200	21-82	33		CALVIN STREET EXT	CLANCY SCOTT W - TE	JESSICA L HAYES	4 BLUEBERRY CIRCLE		AYER	MA	01432
201	21-83	2		BLUEBERRY CIRCLE	HAYES MICHAEL P - TE	BLOOD 2015 FAMILY TRUST	1 BLUEBERRY CIRCLE		AYER	MA	01432
202	21-84	4		BLUEBERRY CIRCLE	BLOOD DONALD R - TR	3 BLUEBERRY CIRCLE REALTY TRUST	30 CALVIN STREET EXT		AYER	MA	01432
203	21-85	3		BLUEBERRY CIRCLE	FLYNN KIMBERLY A - TR		16 JAMES BROOK WAY		AYER	MA	01432
204	21-86	1		BLUEBERRY CIRCLE	SCRIVER CHRISTOPHER J		84 GROTON SCHOOL RD		AYER	MA	01432
205	21-89	30		CALVIN STREET EXT	HTAY HTAY HAN	KELLIE M PORTER	37 GROTON SHIRLEY ROAD		AYER	MA	01432
206	2-2	14		JAMES BROOK WAY	PORTER LAWRENCE B		31 GROTON SHIRLEY ROAD		AYER	MA	01432
207	2-27	84	13	OFF GROTON SCHOOL ROAD	WALSH MICHAEL A		39 GROTON SHIRLEY ROAD		AYER	MA	01432
208	2-29	37		GROTON SHIRLEY ROAD	PRICE BRADLEY A	LYNNE E NEWMAN	35 GROTON SHIRLEY ROAD		AYER	MA	01432
209	2-30	31		GROTON SHIRLEY ROAD	NEWMAN WAYNE A - TE	REBECCA L AUDETTE	41 GROTON SHIRLEY RD		AYER	MA	01432
210	2-31	33		GROTON SHIRLEY ROAD	AUDETTE MICHAEL D - TE		43 GROTON SHIRLEY ROAD		AYER	MA	01432
211	2-32	35		GROTON SHIRLEY ROAD	TUCKER PAUL G JR	DARLENE M JOHNSON			AYER	MA	01432
212	2-33	39		GROTON SHIRLEY ROAD	JOHNSON ERNEST J - TE	THERESA M BOUDREAU			AYER	MA	01432
213	2-34	41		GROTON SHIRLEY ROAD	BOUDREAU GREGORY M - TE	JIDI SAGSLETTER			AYER	MA	01432
214	2-35	43		GROTON SHIRLEY ROAD	MCRELL MICHAEL E	HEATHER MATTHEWS			AYER	MA	01432
215	2-36	45		GROTON SHIRLEY ROAD	MATTHEWS JOHN				AYER	MA	01432

# Board of Assessors Town Hall 1 Main Street Ayer, MA 01432

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December 14, 2021

## ABUTTERS LIST FOR PARCEL(S): Multiple Owner(s): New England Power (NEP)

#	Parcel ID	Sino	Sino2	Property Location	Owner's Name1	Owner's Name2	Address1	Address2	City/Town	State	Zip Code
216	2-37	47		GROTON SHIRLEY ROAD	ANDREWS TIMOTHY S - JT	JANICE A ANDREWS	47 GROTON SHIRLEY ROAD		AYER	MA	01432
217	2-38	49		GROTON SHIRLEY ROAD	COMERFORD WILLIAM M - TE	CHONG S COMERFORD	49 GROTON SHIRLEY ROAD		AYER	MA	01432
218	2-39	91		FITCHBURG ROAD	91 FITCHBURG ROAD LLC		133 PEARL STREET	SUITE 400	BOSTON	MA	02110
219	2-4	0		GROTON SHIRLEY ROAD	GROTON CONSERVATION TRUST		PO BOX 395		GROTON	MA	01460
220	2-40	15		JAMES BROOK WAY	THOMAS J BUDKA		15 JAMES BROOK WAY		AYER	MA	01432
221	2-41	13		JAMES BROOK WAY	MARCELO ANTONIO MARTINS FERREIRA		13 JAMES BROOK WAY		AYER	MA	01432
222	2-42	11		JAMES BROOK WAY	PORTER JAY E - TE	HEATHER ALYN-ROBERTS PORTER	11 JAMES BROOK WAY		AYER	MA	01432
223	2-46	26		GROTON SHIRLEY ROAD	RAJAGOPALAN GANESAN - TE	GOMATHI THAI SHANKARAN	26 GROTON SHIRLEY ROAD		AYER	MA	01432
224	2-53	17		JAMES BROOK WAY	LUKAS RAYMOND - TE	EILEEN HOSKIN	170 SUMMER STREET		AYER	MA	01432
225	27-1	24		OAK RIDGE DRIVE	DALEY CAROL D		24 OAK RIDGE DRIVE		MAYNARD	MA	01754
226	27-206	26		OAK RIDGE DRIVE	WEAVER DOUGLAS G - TE	CATHY A WEAVER	26 OAK RIDGE DRIVE		AYER	MA	01432
227	28-10	114		OAK RIDGE DRIVE	EGAN CHRISTOPHER P	JENNIE A LAKE	114 OAK RIDGE DRIVE		AYER	MA	01432
228	28-11	116		OAK RIDGE DRIVE	GADHOF GERULDE C		116 OAK RIDGE DRIVE		AYER	MA	01432
229	28-12	118		OAK RIDGE DRIVE	MARINO DOROTHY M		118 OAK RIDGE DRIVE		AYER	MA	01432
230	28-13	16		PINE RIDGE DRIVE	BUTTERWORTH CHARLES - JTS	BONNIE J MATTHEWS	16 PINE RIDGE DRIVE		AYER	MA	01432
231	28-14	18		PINE RIDGE DRIVE	STUTLER TILCIA D		18 PINE RIDGE DRIVE		AYER	MA	01432
232	28-15	20		PINE RIDGE DRIVE	LIBERTY MICHAEL E		20 PINE RIDGE DRIVE		AYER	MA	01432
233	28-16	22		PINE RIDGE DRIVE	GUSTAFSON MEGAN L		22 PINE RIDGE DRIVE		AYER	MA	01432
234	28-17	24		PINE RIDGE DRIVE	STANDER JOHN J		24 PINE RIDGE DRIVE		AYER	MA	01432
235	28-18	26		PINE RIDGE DRIVE	CORACIO GUY - TE	DORIS CORACIO	26 PINE RIDGE DRIVE		AYER	MA	01432
236	28-19	28		PINE RIDGE DRIVE	DEWOLF RYAN M		28 PINE RIDGE DRIVE		AYER	MA	01432
237	28-20	17		PINE RIDGE DRIVE	SCHICK ROBERT E - TE	MARY J SCHICK	17 PINE RIDGE DRIVE		AYER	MA	01432
238	28-21	19		PINE RIDGE DRIVE	O'GRADY MARGA - TE	RICHARD O'GRADY	19 PINE RIDGE DRIVE		AYER	MA	01432
239	28-22	21		PINE RIDGE DRIVE	DOLAN JAMES - TE	SANDRA A DOLAN	21 PINE RIDGE DRIVE		AYER	MA	01432
240	28-23	23		PINE RIDGE DRIVE	HARRINGTON PATRICK		3 MISTY LANE		WESTFORD	MA	01432
241	28-24	25		PINE RIDGE DRIVE	TENO RICHARD A - TE	JOAN TENO	25 PINE RIDGE DRIVE		AYER	MA	01432
242	28-25	27		PINE RIDGE DRIVE	LAMPROS KRISTIN L		27 PINE RIDGE DRIVE		AYER	MA	01432
243	28-26	120		OAK RIDGE DRIVE	DUNN KETH D - TE		120 OAK RIDGE DRIVE		AYER	MA	01432
244	28-27	122		OAK RIDGE DRIVE	NOLAN CHRISTINE R		122 OAK RIDGE DRIVE		AYER	MA	01432
245	28-28	124		OAK RIDGE DRIVE	WARILA OLIVIA K		124 OAK RIDGE DRIVE		AYER	MA	01432
246	28-29	126		OAK RIDGE DRIVE	CAMACHO ROBERT F	THERESA M CAMACHO	126 OAK RIDGE DRIVE		AYER	MA	01432
247	28-30	128		OAK RIDGE DRIVE	GRUNWALD N WHITNEY - TE	GREGORY F GRUNWALD	128 OAK RIDGE DRIVE		AYER	MA	01432
248	28-31	130		OAK RIDGE DRIVE	KEARNS THOMAS MATTHEW		130 OAK RIDGE DRIVE		AYER	MA	01432
249	28-32	132		PINE RIDGE DRIVE	FRIEDEN ADAM - TE	JAMIE FRIEDEN	132 PINE RIDGE DRIVE		AYER	MA	01432
250	28-33	139		OAK RIDGE DRIVE	MEREDYTH SCANTLON		29 PINE RIDGE DRIVE		AYER	MA	01432
251	28-34	134		OAK RIDGE DRIVE	NOETH MARY J		134 OAK RIDGE DRIVE		AYER	MA	01432
252	28-35	136		OAK RIDGE DRIVE	KAREN SUSAN JONES		136 OAK RIDGE DRIVE		AYER	MA	01432
253	28-7	14		PINE RIDGE DRIVE	RITH WILSON		14 PINE RIDGE DRIVE		AYER	MA	01432
254	28-8	6		WESTERN DRIVE	VAIRA LOUIS P - JT	DONA L VAIRA	6 WESTERN DRIVE		AYER	MA	01432
255	2-9	14		GROTON SHIRLEY ROAD	GRIFFIN PATRICK M		14 GROTON SHIRLEY ROAD		AYER	MA	01432
256	3-1	0		DOUGLAS DRIVE	FOX MEADOW REALTY TRUST	DAVID C MOULTON - TRUSTEE	129 SKYFIELD DRIVE		GROTON	MA	01450
257	3-10	94		GROTON SCHOOL ROAD	EGAN HANNAH T	BRENDAN M LYONS	94 GROTON SCHOOL ROAD		AYER	MA	01432
258	3-11	0		GROTON SCHOOL ROAD	NEW ENGLAND POWER CO		PROPERTY TAX DEPT	40 SYLVAN ROAD	WALTHAM	MA	02451

**Board of Assessors  
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December 14, 2021

**ABUTTERS LIST FOR PARCEL(s) : Multiple  
Owners(s) : New England Power (NEP)**

#	Parcel ID	Simo	Simo2	Property Location	Owners Name1	Owners Name2	Address1	Address2	City/Town	State	Zip Code
259	3-12	86		GROTON SCHOOL ROAD	HALLORAN JANICE E		86 GROTON SCHOOL ROAD		AYER	MA	01432
260	3-2	0		OLD HARBOR ROAD	COFFIELD REALTY TRUST II		39 MAIN STREET	SUITE 204	AYER	MA	01432
261	3-28	93		GROTON SCHOOL ROAD	STEPHEN JAMES D - TE	EDITH R STEPHEN	93 GROTON SCHOOL RD		AYER	MA	01432
262	3-29	5		DOUGLAS DRIVE	SAMANTHA GERVAIS		5 DOUGLAS DRIVE		AYER	MA	01432
263	3-30	7		DOUGLAS DRIVE	FENNELL REGINALD A		7 DOUGLAS DRIVE		AYER	MA	01432
264	3-31	9		DOUGLAS DRIVE	LURVEY MARK D JR		9 DOUGLAS DRIVE		AYER	MA	01432
265	3-32	11		DOUGLAS DRIVE	LOGEE CURTIS - TE	JANE C LOGEE	11 DOUGLAS DRIVE		AYER	MA	01432
266	3-33	13		DOUGLAS DRIVE	WYSK HENRY - TR	JACKMONT LIVING TRUST	13 DOUGLAS DRIVE		AYER	MA	01432
267	3-34	15		DOUGLAS DRIVE	SHERWIN KAREN M	BARBARA M WYMAN	15 DOUGLAS DRIVE		AYER	MA	01432
268	3-35	17		DOUGLAS DRIVE	MICHAEL KOSSYREV		17 DOUGLAS DRIVE		AYER	MA	01432
269	3-36	19		DOUGLAS DRIVE	BERGAN EDWARD C - TE	KAREN S BERGAN	19 DOUGLAS DRIVE		AYER	MA	01432
270	3-37	21		DOUGLAS DRIVE	NSUBUGA MUUSA		21 DOUGLAS DRIVE		AYER	MA	01432
271	3-38	23		DOUGLAS DRIVE	SMITH MARK A - TE	KATHY R SMITH	23 DOUGLAS DRIVE		AYER	MA	01432
272	3-39	0		GROTON SCHOOL ROAD	NEW ENGLAND POWER CO		PROPERTY TAX DEPT	40 SYLVAN ROAD	WALTHAM	MA	02461
273	3-4	7		GROTON SHIRLEY ROAD	DREW P HICKOK		7 GROTON SHIRLEY ROAD		AYER	MA	01432
274	3-40	85		GROTON SCHOOL ROAD	BATTES FREDY A - TE	SARA MENDEZ	85 GROTON SCHOOL ROAD		AYER	MA	01432
275	3-41	4		ROSEWOOD AVENUE	MADIGAN HAROLD W - TE	MARYANN MADIGAN	12 MADIGAN LANE		AYER	MA	01432
276	3-42	8		ROSEWOOD AVENUE	BATTES GILSON A		8 ROSEWOOD AVENUE		AYER	MA	01432
277	3-43	10		ROSEWOOD AVENUE	JEANNOTTE MATTHEW A	NICOLE K JEANNOTTE	10 ROSEWOOD AVENUE		AYER	MA	01432
278	3-44	12		ROSEWOOD AVENUE	SPINNEY BRADLEY D	COLLEEN S BEDROGAN	12 ROSEWOOD AVENUE		AYER	MA	01432
279	3-45	14		ROSEWOOD AVENUE	WARREN GARY E	PETER BROULLIARD	14 ROSEWOOD AVENUE		AYER	MA	01432
280	3-46	16		ROSEWOOD AVENUE	BROULLIARD STACEY L - TE		16 ROSEWOOD AVENUE		AYER	MA	01432
281	3-47	18		ROSEWOOD AVENUE	CARTER ROBERT M	DANIELLE MCCRADY	18 ROSEWOOD AVENUE		AYER	MA	01432
282	3-48	20		ROSEWOOD AVENUE	MCCRADY MARK - TE	JOANNA DIMAS	20 ROSEWOOD AVENUE		AYER	MA	01432
283	3-49	22		ROSEWOOD AVENUE	DUMAS TIMOTHY		22 ROSEWOOD AVENUE		AYER	MA	01432
284	3-50	0		ROSEWOOD AVENUE EXT	MAPLE SUGAR, LLC		39 MAIN STREET SUITE 204		AYER	MA	01432
285	3-51	83		GROTON SCHOOL ROAD	PETERSEN DAVID G - JT	NANCY J POWERS	83 GROTON SCHOOL ROAD		AYER	MA	01432
286	3-53	3		ROSEWOOD AVENUE	BLAIR HEIDI P		3 ROSEWOOD AVENUE		AYER	MA	01432
287	3-54	5		ROSEWOOD AVENUE	WOOD HOWARD F & KATHRYN F - TR	S H K REALTY TRUST	7 ROSEWOOD AVENUE		AYER	MA	01432
288	3-55	7		ROSEWOOD AVENUE	WOOD HOWARD F & KATHRYN F - TR	S H K REALTY TRUST	7 ROSEWOOD AVENUE		AYER	MA	01432
289	3-6	12		GROTON SHIRLEY ROAD	GOODWIN JESSE F		12 GROTON SHIRLEY ROAD		AYER	MA	01432
290	3-60	11		ROSEWOOD AVENUE	MADDEN BRIAN C		11 ROSEWOOD AVENUE		AYER	MA	01432
291	3-62	13		ROSEWOOD AVENUE	LORING DANIEL M - JTS	PHILOMENA LORING	42 WOODS LANE		AYER	MA	01432
292	3-63	3		MARK STREET	COZZENS INVESTMENT TRUST	ROBERT W & LISA M COZZENS - TR	3 MARK STREET		AYER	MA	01432
293	3-64	5		MARK STREET	ROSEWOOD AVENUE		5 MARK STREET		AYER	MA	01432
294	3-65	15		ROSEWOOD AVENUE	ROY CHARLES J JR	JILLIAN ROY	15 ROSEWOOD AVENUE		AYER	MA	01432
295	3-66	4		MARK STREET	SYLVESTER THOMAS - TE	MARTHA SYLVESTER	4 MARK STREET		AYER	MA	01432
296	3-67	6		MARK STREET	BRACKEN KEVIN - TC	ALEXANDRA D POIKONEN	6 MARK STREET		AYER	MA	01432
297	3-68	91		GROTON SCHOOL ROAD	KELLY SANDRA M		91 GROTON SCHOOL ROAD		AYER	MA	01432
298	3-69	95		GROTON SCHOOL ROAD	PANETTA BRENDA J - TE	JAMES C PANETTA	95 GROTON SCHOOL ROAD		AYER	MA	01432
299	3-7	8		GROTON SHIRLEY ROAD	MULLDOON FREDERICK W - TE	LAURA MULLDOON	8 GROTON SHIRLEY ROAD		AYER	MA	01432
300	3-70	84	3	OFF GROTON SCHOOL ROAD	DOS SANTOS GEORGE C		84 GROTON SCHOOL ROAD		AYER	MA	01432
301	3-75	1		GROTON SHIRLEY ROAD	KRISTEN BUCHANAN		1 GROTON SHIRLEY ROAD		AYER	MA	01432

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#	Parcel ID	Simo	Simo2	Property Location	Owners Name1	Owners Name2	Address1	Address2	City/Town	State	Zip Code
302	3-76	5		GROTON SHIRLEY ROAD	MCKEAN ROBERT C		5 GROTON SHIRLEY ROAD		AYER	MA	01432
303	3-8	6		GROTON SHIRLEY ROAD	LAWRENCE WILLIAM R - TR		6 GROTON SHIRLEY ROAD		AYER	MA	01432
304	3-87	88		GROTON SCHOOL ROAD	MULDOON BRIAN D - TE		88 GROTON SCHOOL ROAD		AYER	MA	01432
305	3-88	84	1	OFF GROTON SCHOOL ROAD	ANDERSON MARK S - TE		84-1 GROTON SCHOOL ROAD		AYER	MA	01432
306	3-9	96		GROTON SCHOOL ROAD	TOWNE BRUCE E - TE		96 GROTON SCHOOL ROAD		AYER	MA	01432
307	3-90	0		ROSEWOOD AVENUE EXT	MAPLE SUGAR, LLC		39 MAIN STREET SUITE 204		AYER	MA	01432
308	4-10	0		OLD GROTON ROAD	ELIADES DAVID J - TE		199 OLD GROTON ROAD		AYER	MA	01432
309	4-11	179		WASHINGTON STREET	EVANS VIRGINIA K		179 WASHINGTON STREET		AYER	MA	01432
310	4-1-1	101		WASHINGTON STREET	UNKEL DOUGLAS - TR		101 AUTUMN RIDGE DRIVE		AYER	MA	01432
311	4-1-10	204		AUTUMN RIDGE DRIVE	STODDART MARION L		204 AUTUMN RIDGE DRIVE		AYER	MA	01432
312	4-1-11	205		AUTUMN RIDGE DRIVE	MARION JOHN M - TE		205 AUTUMN RIDGE DRIVE		AYER	MA	01432
313	4-1-12	206		AUTUMN RIDGE DRIVE	HALL DENIS EDWARD - TE		206 AUTUMN RIDGE DRIVE		AYER	MA	01432
314	4-1-13	301		AUTUMN RIDGE DRIVE	CARRIGER CHRISTINE E - TR		301 AUTUMN RIDGE DRIVE		AYER	MA	01432
315	4-1-14	302		AUTUMN RIDGE DRIVE	LIND KENNETH J - TE		302 AUTUMN RIDGE DRIVE		AYER	MA	01432
316	4-1-15	303		AUTUMN RIDGE DRIVE	HIGGINS WILLIAM J - TE		303 AUTUMN RIDGE DRIVE		AYER	MA	01432
317	4-1-16	304		AUTUMN RIDGE DRIVE	BENNETT KEVIN P		304 AUTUMN RIDGE DRIVE		AYER	MA	01432
318	4-1-17	305		AUTUMN RIDGE DRIVE	STEADMAN DANNIE - TE		305 AUTUMN RIDGE DRIVE		AYER	MA	01432
319	4-1-18	306		AUTUMN RIDGE DRIVE	TOPANELLI MARILYN E		306 AUTUMN RIDGE DRIVE		AYER	MA	01432
320	4-1-19	307		AUTUMN RIDGE DRIVE	PATRICIA A CANNERY WOODS LLE		307 AUTUMN RIDGE DRIVE		AYER	MA	01432
321	4-12	188		WASHINGTON STREET	DESY STEVEN		188 WASHINGTON STREET		AYER	MA	01432
322	4-1-2	102		AUTUMN RIDGE DRIVE	DONAHUE ABBONIE G - JT		102 AUTUMN RIDGE DRIVE		AYER	MA	01432
323	4-1-20	308		AUTUMN RIDGE DRIVE	GLASZCZ JOANNE K		308 AUTUMN RIDGE DRIVE		AYER	MA	01432
324	4-1-21	401		AUTUMN RIDGE DRIVE	SINCLAIR ROBERT - TE		401 AUTUMN RIDGE DRIVE		AYER	MA	01432
325	4-1-22	402		AUTUMN RIDGE DRIVE	MORANO ALFRED O		402 AUTUMN RIDGE DRIVE		AYER	MA	01432
326	4-1-23	403		AUTUMN RIDGE DRIVE	KELLEHER PAUL C - TR		403 AUTUMN RIDGE DRIVE		AYER	MA	01432
327	4-1-24	404		AUTUMN RIDGE DRIVE	O'REGAN JOHN J - JT		404 AUTUMN RIDGE DRIVE		AYER	MA	01432
328	4-1-25	405		AUTUMN RIDGE DRIVE	CHASE HELEN		405 AUTUMN RIDGE DRIVE		AYER	MA	01432
329	4-1-26	406		AUTUMN RIDGE DRIVE	ELIZABETH T KUBICK		406 AUTUMN RIDGE DRIVE		AYER	MA	01432
330	4-1-27	407		AUTUMN RIDGE DRIVE	NASH ARTHUR H - TR		NASH INVESTMENT TRUST	407 AUTUMN RIDGE DRIVE	AYER	MA	01432
331	4-1-28	408		AUTUMN RIDGE DRIVE	DIEMERT JEAN F		408 AUTUMN RIDGE DRIVE		AYER	MA	01432
332	4-1-29	501		AUTUMN RIDGE DRIVE	RITA HARDIMAN		501 AUTUMN RIDGE DRIVE		AYER	MA	01432
333	4-13	129		CULVER ROAD	RENRICCA NICHOLAS J -TE		129 CULVER ROAD		GROTON	MA	01432
334	4-1-3	103		AUTUMN RIDGE DRIVE	BENSSETLER ALAN BRUCE		103 AUTUMN RIDGE DRIVE		AYER	MA	01432
335	4-1-30	502		AUTUMN RIDGE DRIVE	CORR MARGARET L		502 AUTUMN RIDGE DRIVE		AYER	MA	01432
336	4-1-31	503		AUTUMN RIDGE DRIVE	KING DANA - TR		503 AUTUMN RIDGE DRIVE		AYER	MA	01432
337	4-1-32	504		AUTUMN RIDGE DRIVE	LEE KAM BOR & SYLVIA CHIEN-WEI		504 AUTUMN RIDGE DRIVE		AYER	MA	01432
338	4-1-33	505		AUTUMN RIDGE DRIVE	SANDOZ HELEN K		505 AUTUMN RIDGE DRIVE		AYER	MA	01432
339	4-1-34	506		AUTUMN RIDGE DRIVE	LEKHA R DE		506 AUTUMN RIDGE DRIVE		AYER	MA	01432
340	4-1-35	507		AUTUMN RIDGE DRIVE	JOHN&CONSTANCE KERO IRREV TRUST		507 AUTUMN RIDGE DRIVE		AYER	MA	01432
341	4-1-36	508		AUTUMN RIDGE DRIVE	MCKINNEY NANCY A		508 AUTUMN RIDGE DRIVE		AYER	MA	01432
342	4-1-37	601		AUTUMN RIDGE DRIVE	FRANCIS X CALLAGHAN		601 AUTUMN RIDGE DRIVE		AYER	MA	01432
343	4-1-38	602		AUTUMN RIDGE DRIVE	MUSGROVE PAUL S		602 AUTUMN RIDGE DRIVE		AYER	MA	01432
344	4-1-39	603		AUTUMN RIDGE DRIVE	BATES JOHN C - TE		603 AUTUMN RIDGE DRIVE		AYER	MA	01432

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Town Hall

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Ayer, MA 01432

Tel: (978) 772-8220 ext 140  
Email: assessor@ayer.ma.us

December 14, 2021

## ABUTTERS LIST FOR PARCEL(S) : Multiple Owners(s) : New England Power (NEP)

#	Parcel ID	Sino	Sino2	Property Location	Owners Name1	Owners Name2	Address1	Address2	City/Town	State	Zip Code
345	4-1-4	104		AUTUMN RIDGE DRIVE	GEARY GORDON B - TE	SUSAN S GEARY	240 PALMETTO DUNES CIRCLE		NAPLES	FL	34113
346	4-1-40	604		AUTUMN RIDGE DRIVE	MAHON PATRICIA A		604 AUTUMN RIDGE DRIVE		AYER	MA	01432
347	4-1-41	605		AUTUMN RIDGE DRIVE	NEWMARK JOAN C		605 AUTUMN RIDGE DRIVE		AYER	MA	01432
348	4-1-42	606		AUTUMN RIDGE DRIVE	JEFFREY P OSULLIVAN		606 AUTUMN RIDGE DRIVE		AYER	MA	01432
349	4-1-43	701		AUTUMN RIDGE DRIVE	DEBRA DALY		701 AUTUMN RIDGE DRIVE		AYER	MA	01432
350	4-1-44	702		AUTUMN RIDGE DRIVE	TORGERSEN DONALD B	I JANET TORGERSEN	702 AUTUMN RIDGE DRIVE		AYER	MA	01432
351	4-1-45	703		AUTUMN RIDGE DRIVE	LEWIS HILTON G PRYCE - TE	WENDY E PRYCE LEWIS	703 AUTUMN RIDGE DRIVE		AYER	MA	01432
352	4-1-46	704		AUTUMN RIDGE DRIVE	RUGLES ORCUTT -TR	RUGLES LIVING TRUST	704 AUTUMN RIDGE DRIVE		AYER	MA	01432
353	4-1-47	705		AUTUMN RIDGE DRIVE	COHEN MARTIN	DEE J COHEN	705 AUTUMN RIDGE DRIVE		AYER	MA	01432
354	4-1-48	706		AUTUMN RIDGE DRIVE	LONG JAMES R JR	PAGE D LONG	706 AUTUMN RIDGE DRIVE		AYER	MA	01432
355	4-1-49	707		AUTUMN RIDGE DRIVE	OLSON RICHARD L	HELEN G OLSON	707 AUTUMN RIDGE DRIVE		AYER	MA	01432
356	4-1-5	0		OLD GROTON ROAD	ELADES DAVID J - TE	BARBARA L ELADES	199 OLD GROTON ROAD		AYER	MA	01432
357	4-1-5	105		AUTUMN RIDGE DRIVE	PEANAMANDA JOSEPH J - TE	SANDRA MARIE PEANAMANDA	105 AUTUMN RIDGE DRIVE		AYER	MA	01432
358	4-1-50	708		AUTUMN RIDGE DRIVE	AIREY GERTRUDE M		708 AUTUMN RIDGE DRIVE		AYER	MA	01432
359	4-1-51	801		AUTUMN RIDGE DRIVE	FITZPATRICK DAVID M	ELLEN SMITH FITZPATRICK	801 AUTUMN RIDGE DRIVE		AYER	MA	01432
360	4-1-52	802		AUTUMN RIDGE DRIVE	CANFIELD CORINE O - TR	CANFIELD FAMILY REVOCABLE TRUST	802 AUTUMN RIDGE DRIVE		AYER	MA	01432
361	4-1-53	803		AUTUMN RIDGE DRIVE	CHARRON MARC		803 AUTUMN RIDGE DRIVE		AYER	MA	01432
362	4-1-54	804		AUTUMN RIDGE DRIVE	FREDERICK KETH V	JOYCE M FREDERICK	804 AUTUMN RIDGE DRIVE		AYER	MA	01432
363	4-1-55	805		AUTUMN RIDGE DRIVE	CURLEY PAUL F - TE	JUDITH M CURLEY	805 AUTUMN RIDGE DRIVE		AYER	MA	01432
364	4-1-56	806		AUTUMN RIDGE DRIVE	SULLIVAN CATHERINE A		806 AUTUMN RIDGE DRIVE		AYER	MA	01432
365	4-1-6	3		MADIGAN LANE	TOMKINS STEVEN D -TE	DONNA L TOMKINS	3 MADIGAN LANE		AYER	MA	01432
366	4-1-6	106		AUTUMN RIDGE DRIVE	JOSEPH JOHN FRANCIS - TR		106 AUTUMN RIDGE DRIVE		AYER	MA	01432
367	4-1-7	1		MADIGAN LANE	MARTIN CHRISTOPHER J - TE	ERIN C MARTIN	1 MADIGAN LANE		AYER	MA	01432
368	4-1-7	201		AUTUMN RIDGE DRIVE	MUGFORD FAMILY TRUST	FRANK FIORENTINO - TR	201 AUTUMN RIDGE DRIVE		AYER	MA	01432
369	4-1-8	2		MADIGAN LANE	POIRIER LOUIS J & KATHLEEN M - TR	POIRIER INVESTMENT TRUST	2 MADIGAN LANE		AYER	MA	01432
370	4-1-8	202		AUTUMN RIDGE DRIVE	HISEN FRANK		202 AUTUMN RIDGE DRIVE		AYER	MA	01432
371	4-1-9	180		WASHINGTON STREET	DISKIN KENNETH D - TR	THE DISKREGG LIVING TRUST	180 WASHINGTON STREET		AYER	MA	01432
372	4-1-9	203		AUTUMN RIDGE DRIVE	CADIGAN JOHN J - TR	CADIGAN FAMILY REVOCABLE TRUST	203 AUTUMN RIDGE DRIVE		AYER	MA	01432
373	4-2	200		GROTON ROAD	MPT OF AYER-STEWARD LLC		1000 URBAN CENTER DRIVE		AYER	MA	01432
374	4-20	18		MADIGAN LANE	MADIGAN HAROLD W - TR	MARYANN MADIGAN	18 MADIGAN LANE		AYER	MA	01432
375	4-21	4		MADIGAN LANE	NOETH MICHAEL J SR - TE	PAULA J NOETH	4 MADIGAN LANE		AYER	MA	01432
376	4-2-1	190		GROTON ROAD #110	NASHOBA VALLEY MEDICAL CENTER	C/O SHARED SERVICE CENTER	PO BOX 515		AYER	MA	01432
377	4-2-10	190		GROTON ROAD #220	HTA-NASHOBA MOB 1 LLC	C/O SHARED SERVICE CENTER	16435 N SCOTTSDALE ROAD		AYER	MA	01432
378	4-2-11	190		GROTON ROAD #230	NASHOBA VALLEY MEDICAL CENTER		PO BOX 515		AYER	MA	01432
379	4-2-12	190		GROTON ROAD #240	GUNDERSON PAUL L	LEEANN V GUNDERSON	190 GROTON ROAD #240		AYER	MA	01432
380	4-2-13	190		GROTON ROAD #250	HTA-NASHOBA MOB 1 LLC		16435 N SCOTTSDALE ROAD		AYER	MA	01432
381	4-2-14	190		GROTON ROAD #260	HTA-NASHOBA MOB 1 LLC		16435 N SCOTTSDALE ROAD		AYER	MA	01432
382	4-2-15	190		GROTON ROAD #270	HTA-NASHOBA MOB 1 LLC		16435 N SCOTTSDALE ROAD		AYER	MA	01432
383	4-2-16	190		GROTON ROAD #280	SYDLAR GEORGE D	ANN MARIE SYDLAR	190 GROTON ROAD		AYER	MA	01432
384	4-2-17	190		GROTON ROAD #290	NAIDU ASHA A		190 GROTON ROAD UNIT 290		AYER	MA	01432
385	4-2-2	6		MADIGAN LANE	PRAZNOVSKY JOHN J - TE	LORIANNE M PRAZNOVSKY	6 MADIGAN LANE		AYER	MA	01432
386	4-2-2	190		GROTON ROAD #120	EPID RM LLC		526 MAIN STREET		AYER	MA	01432
387	4-2-3	190		GROTON ROAD #130	HTA-NASHOBA MOB 1 LLC		16435 N SCOTTSDALE ROAD		AYER	MA	01432



# Board of Assessors

Town Hall

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## ABUTTERS LIST FOR PARCEL(S) : Multiple Owners(s) : New England Power (NEP)

#	Parcel ID	Simo	Simo2	Property Location	Owners Name1	Owners Name2	Address1	Address2	Civ/Town	State	Zip Code
388	4-24	10		MADIGAN LANE	DONELL CONRAD - TE	SHERRY L DONELL	10 MADIGAN LANE		AYER	MA	01432
389	4-24	190		GROTON ROAD #140&150	HTA-NASHOBA MOB 1 LLC		16435 N SCOTTSDALE ROAD	SUITE 320	SCOTTSDALE	AZ	85254
390	4-25	12		MADIGAN LANE	LASANTE JARED M	JULIA C LASANTE	12 MADIGAN LANE		AYER	MA	01432
391	4-2-5	190		GROTON ROAD #160	HTA-NASHOBA MOB 1 LLC		16435 N SCOTTSDALE ROAD	SUITE 320	SCOTTSDALE	AZ	85254
392	4-26	14		MADIGAN LANE	CALLAHAN DENIS J	LAURA E CALLAHAN	14 MADIGAN LANE		AYER	MA	01432
393	4-2-6	190		GROTON ROAD #170	HTA-NASHOBA MOB 1 LLC		16435 N SCOTTSDALE ROAD	SUITE 320	SCOTTSDALE	AZ	85254
394	4-27	16		MADIGAN LANE	HORGAN KEVIN - TE	LAURIE A HORGAN	16 MADIGAN LANE		AYER	MA	01432
395	4-2-7	190		GROTON ROAD #180	HELD JONATHAN L - TR	HELD REALTY TRUST	352 BURROUGHS ROAD		SCOTTSDALE	MA	01432
396	4-28	15		MADIGAN LANE	GALLAGHER BRENDAN	KATIE GALLAGHER	15 MADIGAN LANE		AYER	MA	01719
397	4-2-8	190		GROTON ROAD #200	HTA-NASHOBA MOB 1 LLC		16435 N SCOTTSDALE ROAD	SUITE 320	SCOTTSDALE	AZ	85254
398	4-28	13		MADIGAN LANE	CHERY BERNANE	SANDRA A JAMES	13 MADIGAN LANE		AYER	MA	01432
399	4-2-9	190		GROTON ROAD #210	JANES KENNETH A		8 ROBBIE ROAD		AYER	MA	01432
400	4-2A	198		GROTON ROAD	HTA-NASHOBA MOB 2 LLC		16435 N SCOTTSDALE ROAD	SUITE 320	SCOTTSDALE	ME	04043
401	4-2B	400		GROTON ROAD	MPT OF AYER-STEMWARD LLC	C/O HEALTHCARE REIT	4500 DORR STREET		TOLEDO	AZ	85254
402	4-3	210		WASHINGTON STREET	LIEBOWITZ KATHRYN A	DE-MUR REALTY TRUST	432 OLD AYER ROAD		GROTON	MA	01450
403	4-30	11		MADIGAN LANE	DONELL ROBERT J - TR	BARBARA J DONELL	7 MADIGAN LANE		AYER	MA	01432
404	4-32	7		MADIGAN LANE	DONELL ROBERT J - TE	RICHARD R SMITH REVOCABLE TRUST	433 OLD AYER ROAD		AYER	MA	01432
405	4-34	0		SNAKE HILL ROAD	SMITH RICHARD R - TR		433 BROCKELMAN ROAD		GROTON	MA	01450
406	4-35	0		WASHINGTON STREET	SIFAKIS STEPHEN G		401 GROTON ROAD		AYER	MA	01432
407	4-36	0		OLD GROTON ROAD	ACKROYD-KELLY MICHAEL H - TE	PENNY D ACKROYD-KELLY	199 OLD GROTON ROAD		AYER	MA	01432
408	4-37	0		SNAKE HILL ROAD	SMITH BEVERLY B		435 OLD AYER ROAD		AYER	MA	01432
409	4-4	198		OLD GROTON ROAD	ELADES DAVID J - TE	BARBARA L ELADES	187 OLD GROTON ROAD		AYER	MA	01432
410	4-40	187		OLD GROTON ROAD	MCCOY DAVID - TE	AMY MCCOY	435 OLD AYER ROAD		AYER	MA	01432
411	4-41	0		SNAKE HILL ROAD	SMITH BEVERLY B		433 OLD AYER ROAD		GROTON	MA	01450
412	4-42	0		SNAKE HILL ROAD	SMITH RICHARD R		191 GROTON ROAD		AYER	MA	01432
413	4-5	191		GROTON ROAD	SULLIVAN PAULA	BARBARA L ELADES	199 OLD GROTON ROAD		AYER	MA	01432
414	4-6	0		OLD GROTON ROAD	ELADES DAVID J		199 OLD GROTON ROAD		AYER	MA	01432
415	4-7	0		OLD GROTON ROAD	ELADES DAVID J	BARBARA L ELADES	199 OLD GROTON ROAD		AYER	MA	01432
416	4-8	189		WASHINGTON STREET	ELADES DAVID JEFFREY	BARBARA L ELADES	199 OLD GROTON ROAD		AYER	MA	01432
417	4-9	0		OLD GROTON ROAD	ELADES DAVID J	BARBARA L ELADES	199 OLD GROTON ROAD		AYER	MA	01432
418	5-1	1		RATTLESNARE DRIVE	MOORE CALVIN E - TR	ZIM REAL ESTATE TRUST	39 MAIN STREET	SUITE 204	AYER	MA	01432
419	5-2	325		SNAKE HILL ROAD	MOORE TODD D		22 WEST MAIN STREET		AYER	MA	01432
420	5-4	0		SNAKE HILL ROAD	MOORE ZELDA L		39 MAIN STREET	SUITE 204	AYER	MA	01432
421	5-5	0		SNAKE HILL ROAD	COVFIELD REALTY TRUST II	CALVIN E MOORE - TRUSTEE	39 MAIN STREET	SUITE 204	AYER	MA	01432
422	5-6	0		SNAKE HILL ROAD	MAPLE SUGAR LLC		39 MAIN STREET	SUITE 204	AYER	MA	01432
423	6-10	0		SNAKE HILL ROAD	COVFIELD REALTY TRUST II	CALVIN E MOORE - TRUSTEE	39 MAIN STREET	SUITE 204	AYER	MA	01432
424	6-11	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		GROTON	MA	01450
425	6-12	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		GROTON	MA	01450
426	6-13	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		GROTON	MA	01450
427	6-14	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		GROTON	MA	01450
428	6-15	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		GROTON	MA	01450
429	6-16	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		GROTON	MA	01450
430	6-17	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		GROTON	MA	01450

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**ABUTTERS LIST FOR PARCEL(s) : Multiple  
Owners(s) : New England Power (NEP)**

#	Parcel ID	Sino	Sino2	Property Location	Owners Name1	Owners Name2	Address1	Address2	State	Zip Code
431	6-18	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
432	6-19	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
433	6-20	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
434	6-21	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
435	6-22	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
436	6-23	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
437	6-24	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
438	6-25	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
439	6-26	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
440	6-27	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
441	6-28	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
442	6-28	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
443	6-3	0		WESTFORD ROAD (REAR)	MASSACHUSETTS AUDUBON SOCIETY		208 SOUTH GREAT ROAD		MA	01450
444	6-30	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
445	6-31	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
446	6-32	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
447	6-33	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
448	6-40	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
449	6-41	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
450	6-42	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
451	6-43	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
452	6-44	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
453	6-46	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
454	6-47	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
455	6-48	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
456	6-49	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
457	6-51	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
458	6-52	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
459	6-53	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
460	6-54	0		STRATTON HILL ROAD	ALLISON REALTY CORPORATION		129 SKYFIELD DRIVE		MA	01450
461	6-55	0		STRATTON HILL ROAD	FOX MEADOW REALTY CORP		129 SKYFIELD DRIVE		MA	01450
462	6-8	0	REAR	SNAKE HILL ROAD	OWNER UNKNOWN				MA	01450
463	6-9	0		SNAKE HILL ROAD	NEW ENGLAND POWER CO		PROPERTY TAX DEPT	40 SYLVAN ROAD	MA	02451
464	7-19	8		HIBISCUS LANE	ALESSANDRI MATTHEW J - TE		8 HIBISCUS LANE		MA	01432
465	7-20	10		HIBISCUS LANE	LAM ANDY H - TE		10 HIBISCUS LANE		MA	01432
466	7-22	9		HIBISCUS LANE	LAYRE KENNETH H III		9 HIBISCUS LANE		MA	01432
467	7-23	17		HIBISCUS LANE	KUBIK BRENTON M		17 HIBISCUS LANE		MA	01432
468	7-24	16		HIBISCUS LANE	WILCOX KENNETH L - TE		16 HIBISCUS LANE		MA	01432
469	7-25	18		HIBISCUS LANE	HARTE JOSEPH C - TE		18 HIBISCUS LANE		MA	01432
470	7-26	19		HIBISCUS LANE	WEBSTER ROAD		18 HIBISCUS LANE		MA	01432
471	7-30	12		HIBISCUS LANE	BUTTRICK KATHRYN L - TR		19 HIBISCUS LANE		MA	01432
472	7-31	14		HIBISCUS LANE	LY ANH QUOC - TE		12 HIBISCUS LANE		MA	01432
473	7-32	11		HIBISCUS LANE	BOISSEAU LAWRENCE J - TE		14 HIBISCUS LANE		MA	01432
							11 HIBISCUS LANE		MA	01432

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**ABUTTERS LIST FOR PARCEL(S): Multiple  
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#	Parcel ID	Sino	Sino2	Property Location	Owners Name1	Owners Name2	Address1	Address2	City/Town	State	Zip Code
474	7-34	15		HIBISCUS LANE	SHARKEY PAUL J		15 HIBISCUS LANE		AYER	MA	01432
475	7-68-1	12		TURTLE HILL ROAD #A	OLSON SUSANNE M		12A TURTLE HILL ROAD		AYER	MA	01432
476	7-68-10	11		TURTLE HILL ROAD #B	MCLAUGHLIN PETER C & DEBORAH - TR		11 TURTLE HILL ROAD #B		AYER	MA	01432
477	7-68-11	9		TURTLE HILL ROAD #A	LIU YUJING		9A TURTLE HILL ROAD		AYER	MA	01432
478	7-68-12	9		TURTLE HILL ROAD #B	SANDISON MARILYN L		9B TURTLE HILL ROAD		AYER	MA	01432
479	7-68-13	8		TURTLE HILL ROAD #B	CALI MICHAEL J		8B TURTLE HILL ROAD		AYER	MA	01432
480	7-68-14	8		TURTLE HILL ROAD #A	ZIDE JULIE		8A TURTLE HILL ROAD		AYER	MA	01432
481	7-68-15	6		TURTLE HILL ROAD #B	ADELMAN MERLE		6 TURTLE HILL ROAD #B		AYER	MA	01432
482	7-68-16	6		TURTLE HILL ROAD #A	LANDERS ELIZABETH R		6A TURTLE HILL ROAD		AYER	MA	01432
483	7-68-17	4		TURTLE HILL ROAD #B	FLINT LINNEA S TRUST		4B TURTLE HILL ROAD		AYER	MA	01432
484	7-68-18	4		TURTLE HILL ROAD #A	MASUDI SALOME H		4A TURTLE HILL ROAD		AYER	MA	01432
485	7-68-19	2		TURTLE HILL ROAD #B	JEFFORDS THEODORE M - TE		2B TURTLE HILL ROAD		AYER	MA	01432
486	7-68-2	12		TURTLE HILL ROAD #B	EMMONS JEFFERY L		12B TURTLE HILL ROAD		AYER	MA	01432
487	7-68-20	1		TURTLE HILL ROAD #A	CULLEN BRIAN		2A TURTLE HILL ROAD		AYER	MA	01432
488	7-68-21	2		TURTLE HILL ROAD #B	DOLAN KATHLEEN R - TR		1B TURTLE HILL ROAD		AYER	MA	01432
489	7-68-22	1		TURTLE HILL ROAD #A	JAMES J TRAVAGLINI		1A TURTLE HILL ROAD		AYER	MA	01432
490	7-68-23	3		TURTLE HILL ROAD #B	DAY MOLLY		3B TURTLE HILL ROAD		AYER	MA	01432
491	7-68-24	3		TURTLE HILL ROAD #A	COSTA ALLAN T - TE		3A TURTLE HILL ROAD		AYER	MA	01432
492	7-68-25	5		TURTLE HILL ROAD #B	GERARD W TITI		5B TURTLE HILL ROAD		AYER	MA	01432
493	7-68-26	5		TURTLE HILL ROAD #A	SHUGERT PETER H		5A TURTLE HILL ROAD		AYER	MA	01432
494	7-68-27	7		TURTLE HILL ROAD #B	HALL DEBRA L		PSC 45 BOX 1102		AYO	AE	09468
495	7-68-28	7		TURTLE HILL ROAD #A	MILUTINOVIC ALADIN		7A TURTLE HILL ROAD		AYER	MA	01432
496	7-68-3	14		TURTLE HILL ROAD #A	RYAN CHANDLE WHITCOMB		14A TURTLE HILL ROAD		AYER	MA	01432
497	7-68-4	14		TURTLE HILL ROAD #B	SULLIVAN ELAINE M - TE		14 TURTLE HILL ROAD #B		AYER	MA	01432
498	7-68-5	16		TURTLE HILL ROAD #A	BROUGHTON RUTH E - TR		16 TURTLE HILL ROAD #A		AYER	MA	01432
499	7-68-6	16		TURTLE HILL ROAD #B	SNIEGOSKI ROBERT J		16B TURTLE HILL ROAD		AYER	MA	01432
500	7-68-7	18		TURTLE HILL ROAD #A	SUSI ALAN F		18A TURTLE HILL ROAD		AYER	MA	01432
501	7-68-8	18		TURTLE HILL ROAD #B	GUPTA MAYYANK		18B TURTLE HILL ROAD		AYER	MA	01432
502	7-68-9	11		TURTLE HILL ROAD #A	TRAHMAN PATRICIA		11A TURTLE HILL ROAD		AYER	MA	01432
503	00-0000	0		DEVENS	DEVENS ENTERPRISE COMMISSION		33 ANDREWS PKWY		DEVENS	MA	01434
504	00-0000	0		NASHUA RIVER RAIL TRAIL	DIVISION OF CAPITAL ASSET MANAGEMENT		1 ASHBURTON PLACE		BOSTON	MA	02108
505	00-0000	0		FTICHBURG DIVISION	BOSTON & MAINE RAILROAD		TAX DEPT - 67 HIGH STREET		N BILLERICA	MA	01882

\* The above list is a true copy of the records as of October 31, 2021 in the Town of Ayer  
Assessor's office for the last known names and addresses of owners of land abutting the  
the subject to MGL Chapter 131 Sec. 40 (300 feet)

**Certified: Board of Assessors**

**TOWN OF AYER**

**REQUEST FOR CERTIFIED LIST OF ABUTTERS**

**THE FEE FOR PREPARING THE LIST IS \$25.00**

**Applicant:** Alison Milliman Name of Firm: BSC Group, Inc.  
Address: PO Box 60658, Worcester, MA 01606  
Contact Phone #: (617) 896-4532

***Request abutters list for:***

Owner Name: New England Power Company (NEP) easement - electric transmission line right-of-way

Property Location: K137/L138 transmission lines right-of-way (30 work parcels):

Parcel ID: 2-39, 3-39, 3-50, 6-55, 1-3, 2-1, 2-12, 3-11, 4-1, 4-9, 5-1, 5-6, 6-8, 6-9, 6-17, 7-31, 12-1, 12-2, 12-26, 13-1, 13-18, 13-2, 14-1, 14-2, 14-3, 14-4, 15-1, 15-2, 19-11, 19-12

Date you need the list by: 12/16/2021

The Assessors' Office will generate & certify the requested **abutters list**, for the appropriate boards. Please check the appropriate departments.

Planning Board	_____	Ch 40A Sec 11 (300 feet)
“ “	_____	Ch 41 Sec 81T (anr) (applicant & abutters)
Board of Appeals	_____	Ch 40A Sec 11 (300 feet)
Conservation Comm	<u> X </u>	Ch 131 Sec 40 (300 feet)
Board of Selectmen	_____	Ch 138 Sec 12, 15A (abutters & 500 ft if Within school, church or hosp)
Board of Health	_____	Ch 40A Sec 11 (300 feet) (aquifer protection)
Other	_____	

***\*Mailing labels will be provided.***

map_par_id	map_no	site_addr	city	zip	owner1	own_addr	own_city	own_state	own_zip
2-39	2	91 FITCHBURG ROAD	AYER	01432	91 FITCHBURG ROAD LLC	133 PEARL STREET	BOSTON	MA	02110
3-39	3	0 GROTON SCHOOL ROAD	AYER	01432	NEW ENGLAND POWER CO	PROPERTY TAX DEPT	WALTHAM	MA	02451-2286
3-50	3	0 ROSEWOOD AVENUE EXT	AYER	01432	MAPLE SUGAR, LLC	39 MAIN STREET SUITE 204	AYER	MA	01432
6-55		0 STRATTON HILL ROAD	AYER	01432	FOX MEADOW REALTY CORP	129 SKYFIELD DRIVE	GROTON	MA	01450
1-3	1	99 FITCHBURG ROAD	AYER	01432	99 FITCHBURG ROAD LLP	99 FITCHBURG ROAD	AYER	MA	01432
2-1	2	0 GROTON SHIRLEY ROAD	AYER	01432	COMMONWEALTH OF MASSACHUSET	PROPERTY DIVISION	BOSTON	MA	00000
2-12	2	0 GROTON SHIRLEY ROAD	AYER	01432	NEW ENGLAND POWER CO	40 SYLVAN ROAD	WALTHAM	MA	02451-2286
3-11	3	0 GROTON SCHOOL ROAD	AYER	01432	NEW ENGLAND POWER CO	PROPERTY TAX DEPT	WALTHAM	MA	02451-2286
4-1	4	705 AUTUMN RIDGE DRIVE	AYER	01432	CORR MARTIN	705 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	502 AUTUMN RIDGE DRIVE	AYER	01432	CORR MARGARET L	502 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	503 AUTUMN RIDGE DRIVE	AYER	01432	KING DANA - TR	503 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	504 AUTUMN RIDGE DRIVE	AYER	01432	LEE KAM BOR & SYLVIA CHIEN-MEI	504 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	408 AUTUMN RIDGE DRIVE	AYER	01432	DIEMERT JEAN F	408 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	501 AUTUMN RIDGE DRIVE	AYER	01432	CLASBY PATRICIA M	501 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	704 AUTUMN RIDGE DRIVE	AYER	01432	RUGGLES ORCUTT -TR	704 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	802 AUTUMN RIDGE DRIVE	AYER	01432	CANFIELD CORINE O - TR	802 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	803 AUTUMN RIDGE DRIVE	AYER	01432	POWERS PETER M -TE	803 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	804 AUTUMN RIDGE DRIVE	AYER	01432	FREDERICK KEITH V	804 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	805 AUTUMN RIDGE DRIVE	AYER	01432	CURLY PAUL F - TE	805 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	806 AUTUMN RIDGE DRIVE	AYER	01432	SULLIVAN CATHERINE A	806 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	702 AUTUMN RIDGE DRIVE	AYER	01432	FAMULARE MARY LOU - TR	702 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	505 AUTUMN RIDGE DRIVE	AYER	01432	SHERIDAN JOYCE A	505 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	507 AUTUMN RIDGE DRIVE	AYER	01432	JOHN&CONSTANCE KERO IRREV TRUST	507 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	508 AUTUMN RIDGE DRIVE	AYER	01432	MCKINNEY NANCY A	508 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	601 AUTUMN RIDGE DRIVE	AYER	01432	CALLAGHAN FRANCIS X	601 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	602 AUTUMN RIDGE DRIVE	AYER	01432	OBRIEN MAUREEN T	602 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	706 AUTUMN RIDGE DRIVE	AYER	01432	LONG JAMES R JR	706 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	707 AUTUMN RIDGE DRIVE	AYER	01432	OLSON RICHARD L	707 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	801 AUTUMN RIDGE DRIVE	AYER	01432	FITZPATRICK DAVID M	801 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	603 AUTUMN RIDGE DRIVE	AYER	01432	BATES JOHN C - TE	603 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	604 AUTUMN RIDGE DRIVE	AYER	01432	BARSOZZI WILLIAM V	604 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	605 AUTUMN RIDGE DRIVE	AYER	01432	NEWMARK JOAN C	605 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	701 AUTUMN RIDGE DRIVE	AYER	01432	HARRIS MARILYN GUEST	701 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	703 AUTUMN RIDGE DRIVE	AYER	01432	LEWIS HILTON G PRYCE - TE	703 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	407 AUTUMN RIDGE DRIVE	AYER	01432	NASH ARTHUR H - TR	NASH INVESTMENT TRUST	AYER	MA	01432
4-1	4	102 AUTUMN RIDGE DRIVE	AYER	01432	DONAHUE ABONNIE G - JT	102 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	103 AUTUMN RIDGE DRIVE	AYER	01432	BENSETTLER ALAN BRUCE	103 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	104 AUTUMN RIDGE DRIVE	AYER	01432	GEARY GORDON B - TE	104 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	105 AUTUMN RIDGE DRIVE	AYER	01432	PEANAMANDA JOSEPH J - TE	105 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	106 AUTUMN RIDGE DRIVE	AYER	01432	JOSEPH JOHN FRANCIS - TR	106 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	203 AUTUMN RIDGE DRIVE	AYER	01432	CADIGAN JOHN J - TR	203 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	204 AUTUMN RIDGE DRIVE	AYER	01432	STODDART MARION L	204 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	305 AUTUMN RIDGE DRIVE	AYER	01432	STEADMAN DIANNE -TE	305 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	306 AUTUMN RIDGE DRIVE	AYER	01432	TOFANELLI MARILYN E	306 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	307 AUTUMN RIDGE DRIVE	AYER	01432	CANNERY PATRICIA A -L/E	307 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	308 AUTUMN RIDGE DRIVE	AYER	01432	GLASZCZ JOANNE K	308 AUTUMN RIDGE DRIVE	AYER	MA	01432
4-1	4	402 AUTUMN RIDGE DRIVE	AYER	01432	MORANO ALFRED O	402 AUTUMN RIDGE DRIVE	AYER	MA	01432





**AFFIDAVIT OF SERVICE**

Under the Massachusetts Wetlands Protection Act  
and  
Town of Ayer Wetlands Bylaw and Regulations

*To be submitted to the Massachusetts Department of Environmental Protection (MassDEP) and the Ayer Conservation Commission when filing a Notice of Intent.*

I, Alison Milliman, BSC Group, herby certify under the pains and penalties of perjury that  
(Name)  
on 1/25/2022 I gave notification to abutters in compliance with the second  
(Date)  
paragraph of the Massachusetts General Laws Chapter 131, Section 40, and the MassDEP Guide to  
Abutter Notification dated April 8, 1994, in connection with the following matter:

New England Power Company (NEP) K137/L138 Mainline and Tap OPGW Installation Project - Construction  
phase.

The form of notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.



\_\_\_\_\_  
Name (Sign)

Alison Milliman  
Name (Print)

1/15/2022  
Date





# Attachment E

K137/L138 Mainline OPGW Installation Project  
Construction Phase  
Ayer, Massachusetts  
Notice of Intent

NATIONAL GRID'S BEST MANAGEMENT PRACTICES

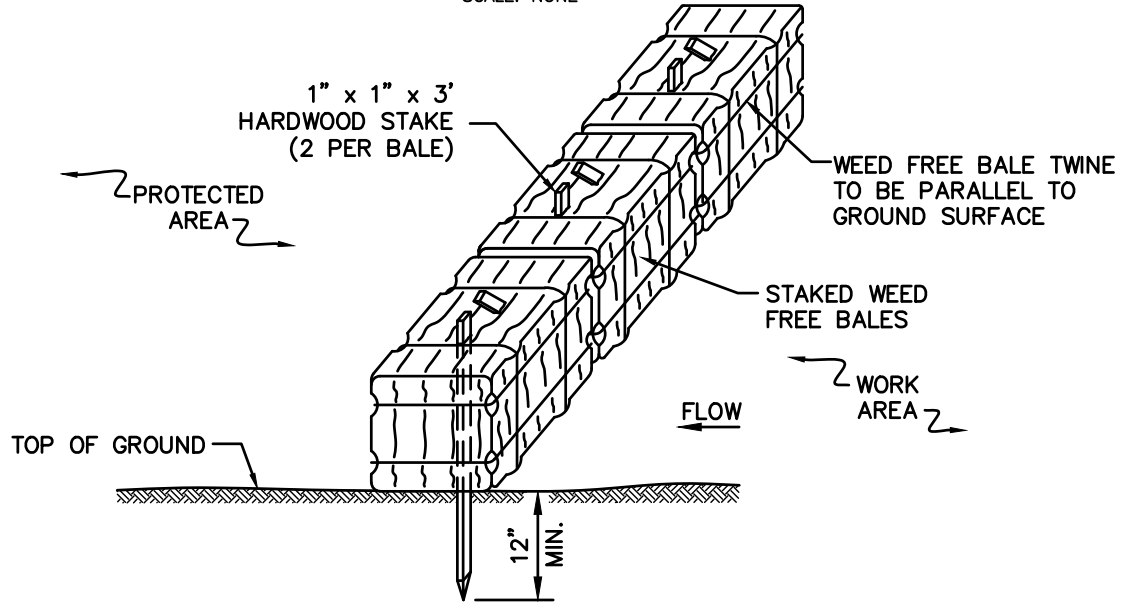


**SUBJECT**  
Access, Maintenance and Construction  
Best Management Practices

Reference  
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE



**NOTES:**

1. THE GROUND SHALL BE PREPARED TO PROVIDE COMPLETE CONTACT WITH THE BALES.

**BMP PICTURE**



File: BALE\_BARRIER.DWG

**APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**  
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

**SEC-1**  
**WEED FREE BALE BARRIER**

**SUBJECT**

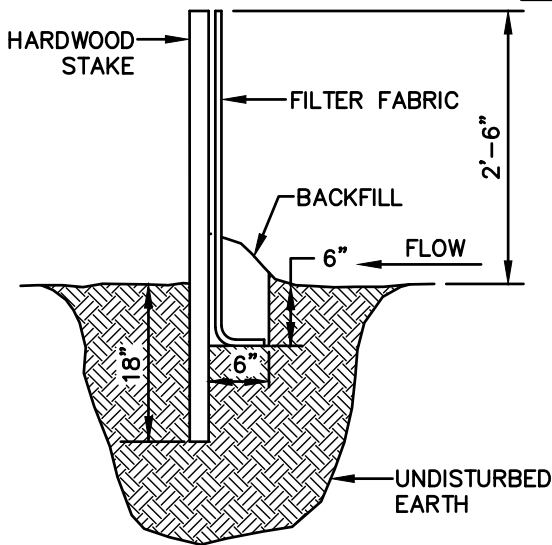
Access, Maintenance and Construction  
Best Management Practices

**Reference**

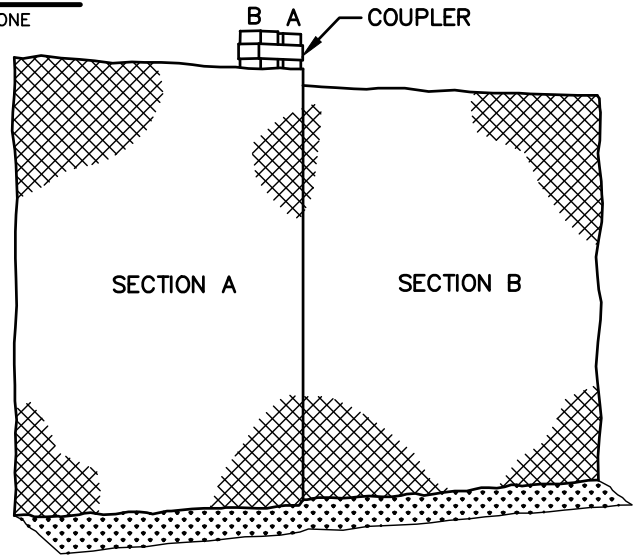
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

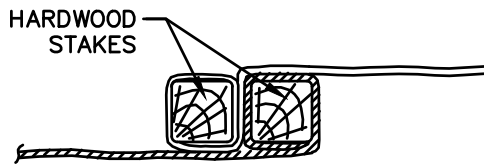
SCALE: NONE



PROFILE



SECTION



PLAN

**BMP PICTURE**



File: Sediment\_Fence.dwg

**APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**  
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

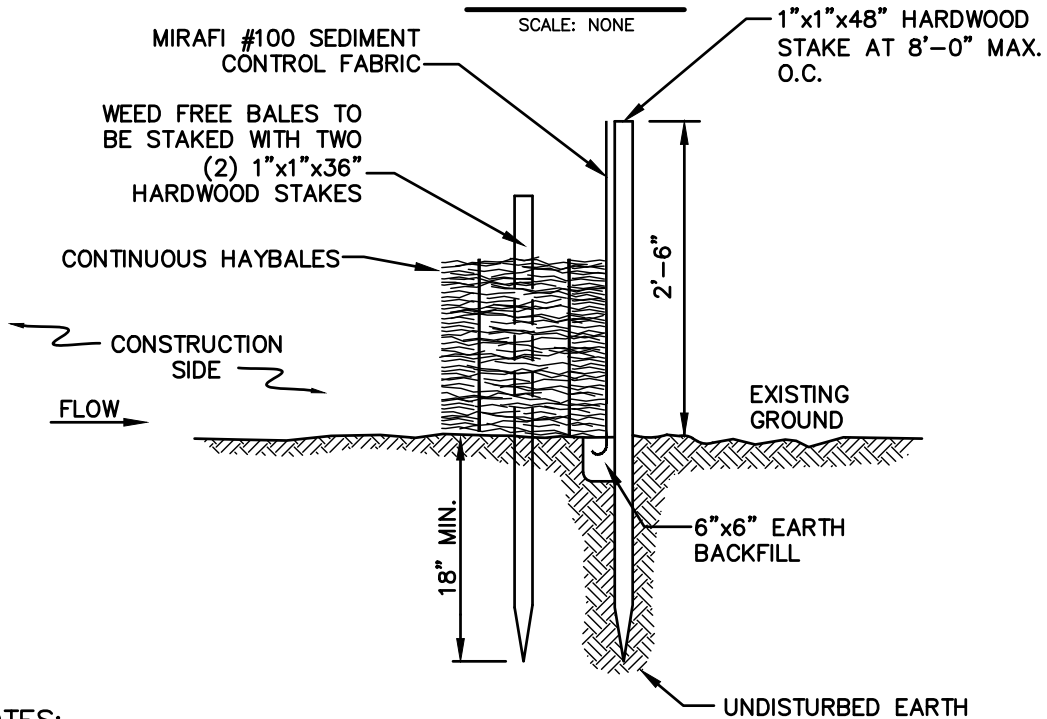
**SEC-2**  
**SEDIMENT CONTROL FENCE**

SUBJECT  
Access, Maintenance and Construction  
Best Management Practices

Reference  
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE



**NOTES:**

1. BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO (2) 1"x1"x36" HARDWOOD STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. BALES SHALL BE REMOVED AND REPLACED WHEN THEY BECOME FILLED WITH SEDIMENT AND BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
5. BALES SHALL BE REMOVED WHEN THE EMBANKMENTS STABILIZE.
6. BALES TO BE TWINE BOUND.

**BMP PICTURE**



File: Silt\_Fence\_&\_Barrier.dwg

**APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**  
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VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

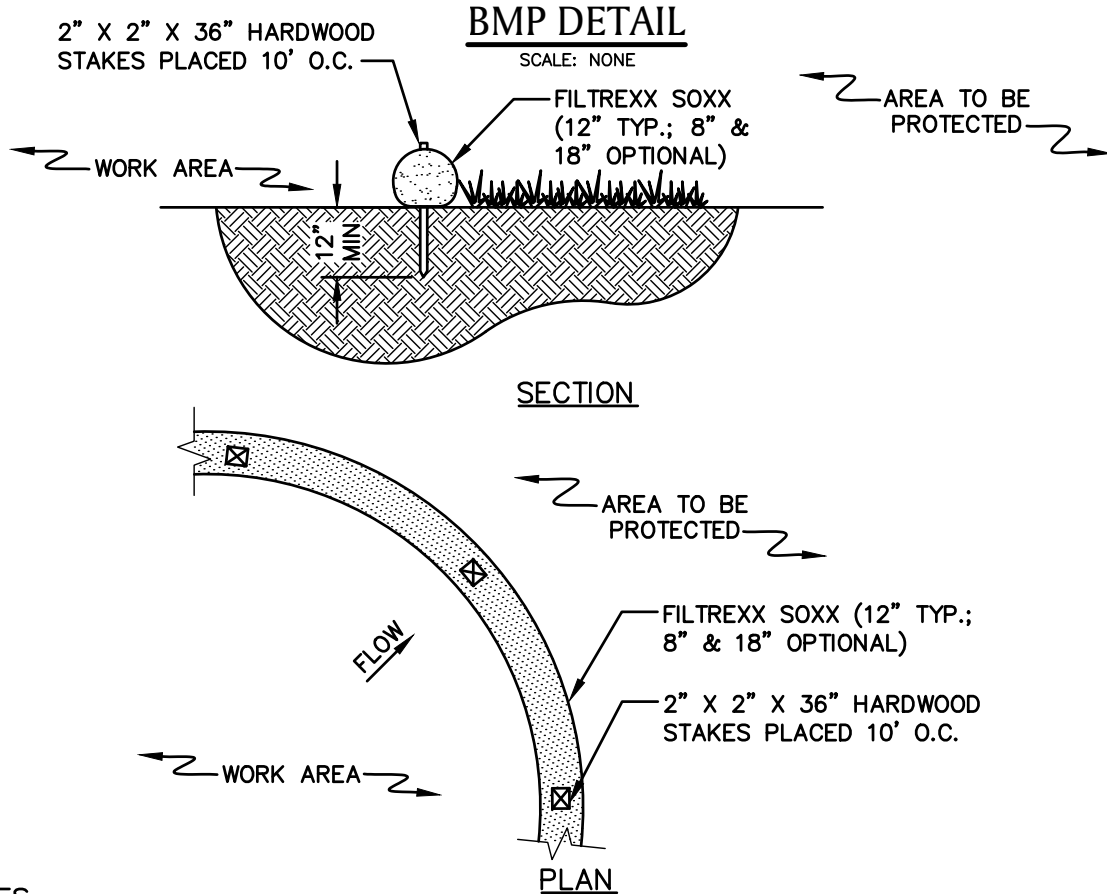
**SEC-3**  
**SILT FENCE /**  
**WEED FREE BARRIER**

SUBJECT

Access, Maintenance and Construction  
Best Management Practices

Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)



**NOTES**

1. PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
3. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
4. MESH CONTAINMENT MATERIAL SHOULD BE KNITTED PHOTODEGRADABLE OR BIODEGRADABLE MATERIAL, WITH OPENING SIZES BETWEEN 1/8" - 3/8".
5. COMPOST MEDIA SHOULD HAVE PARTICLE SIZE WHERE 99% < 2", 50% > 1/2".
6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.

**BMP PICTURE**



\* PICTURE AND DETAIL PROVIDED BY FILTREXX LAND IMPROVEMENT SYSTEMS  
APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES  
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VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

SEC-4  
SILT SOXX \*

**SUBJECT**

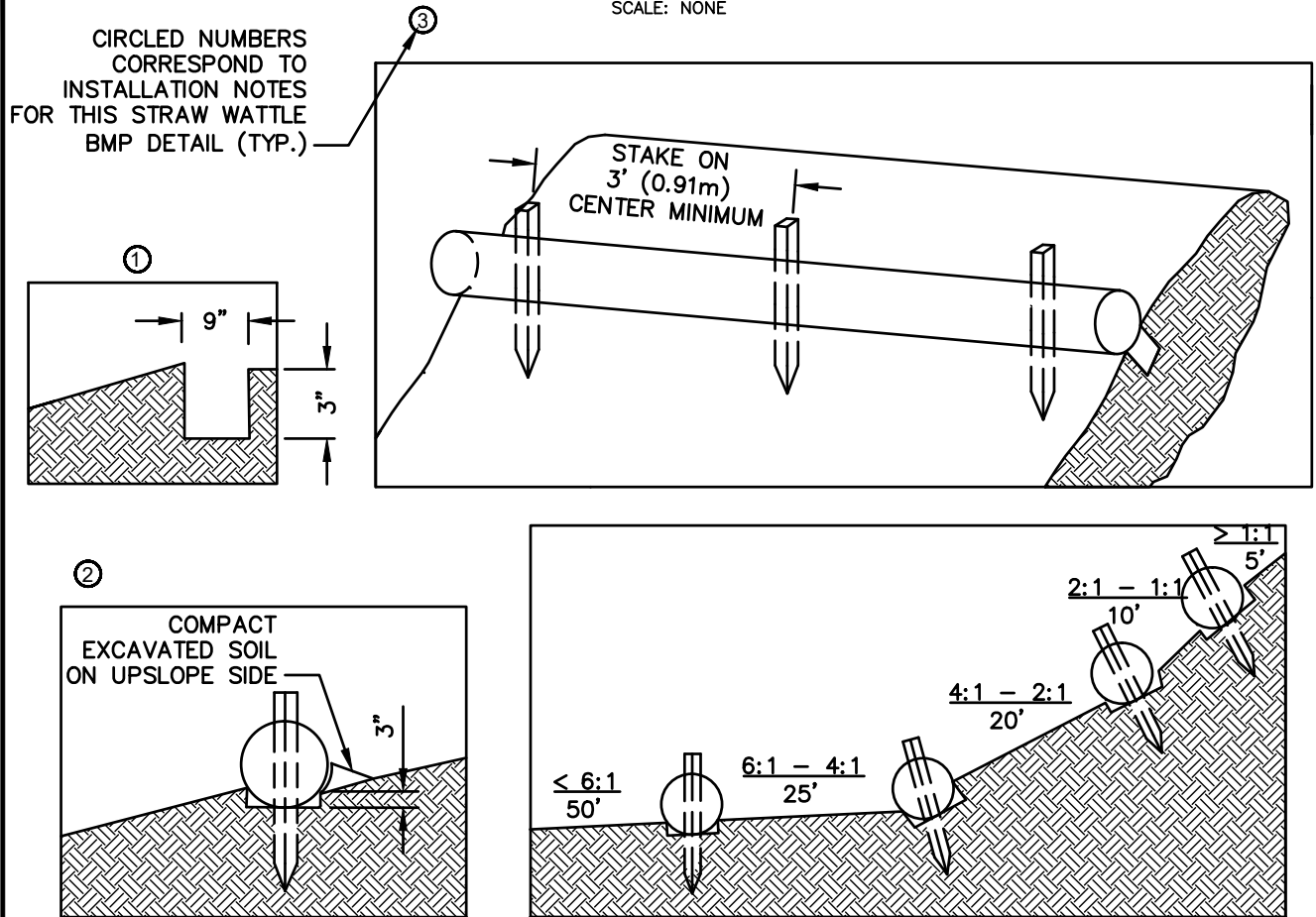
Access, Maintenance and Construction  
Best Management Practices

**Reference**

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE



TYPICAL WATTLE SPACING DETAIL

**NOTES:**

1. PRODUCT TO BE TENSAR NORTH AMERICAN GREEN STRAW WATTLE OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. TYPICAL WATTLE SPACING BASED ON SLOPE GRADIENT. COORDINATE SPACING AND LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.
3. MINIMUM 12" DIAMETER WATTLES SHOULD BE USED FOR HIGHLY DISTURBED AREAS (I.E., HEAVILY USED ACCESS ROAD WITH ADJACENT WETLAND) AND MINIMUM 9-10" WATTLES SHOULD BE USED FOR LESS DISTURBED SOILS.

**INSTALLATION NOTES:**

1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" DEEP X 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18-24" HARDWOOD STAKES EVERY 3-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

\* DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN  
**APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**  
 PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
 VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

**SEC-5**  
**STRAW WATTLE \* (1 OF 2)**



**SUBJECT**  
Access, Maintenance and Construction  
Best Management Practices

Reference  
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP PICTURE**



**STRAW WATTLE – SHALLOW SLOPE ( $\leq 4:1$ )  
(ALTERNATE STAKING)**

**ALTERNATE STAKING INSTALLATION NOTES:**

1. ON SHALLOW SLOPES ( $\leq 4:1$ ), STRAW WATTLE MAY BE SECURED WITH 18–24” HARDWOOD STAKES DRIVEN AGAINST THE SIDES OF THE WATTLE INSTEAD OF THROUGH. STAKES SHALL ALTERNATE SIDES, AND BE SPACED 3–4’ MAX.
2. TWINE SHALL BE TIED FROM STAKE TO STAKE, CRISS–CROSSING THE STRAW WATTLE. TIE TWINE TO STAKES BELOW THE HEIGHT OF THE WATTLE.

**\* DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN  
APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES  
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.**

**SEC-5  
STRAW WATTLE \* (2 OF 2)**

**SUBJECT**  
Access, Maintenance and Construction  
Best Management Practices

Reference  
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP**

**Definition**

Applying coarse plant residue or chips, or other suitable materials, to cover the soil surface.

**Purpose**

The primary purpose is to provide initial erosion control while a seeding or shrub planting is establishing. Mulch will conserve moisture and modify the surface soil temperature and reduce fluctuation of both. Mulch will prevent soil surface crusting and aid in weed control. Mulch is also used alone for temporary stabilization in non-growing months.

**Conditions Where Practice Applies**

On soils subject to erosion and on new seedings and shrub plantings. Mulch is useful on soils with low infiltration rates by retarding runoff.

**Criteria**

Site preparation prior to mulching requires the installation of necessary erosion control or water management practices and drainage systems.

Slope, grade and smooth the site to fit needs of selected mulch products.

Remove all undesirable stones and other debris to meet the needs of the anticipated land use and maintenance required.

Apply mulch after soil amendments and planting is accomplished or simultaneously if hydroseeding is used.

Select appropriate mulch material and application rate or material needs. Determine local availability.

Select appropriate mulch anchoring material.

NOTE: The best combination for grass/legume establishment is straw (cereal grain) mulch applied at 2 ton/acre (90 lbs./1000sq.ft.) and anchored with wood fiber mulch (hydromulch) at 500 – 750 lbs./acre (11 – 17 lbs./1000 sq. ft.). The wood fiber mulch must be applied through a hydroseeder immediately after mulching.



**NOTE:**

1. PICTURE DEPICTS STRAW MULCH APPLICATION (FROM MULCH SPREADER) ON STEEP SLOPE WITH AN IMPROVED DRAINAGE SWALE.
2. COORDINATE MULCH MATERIALS AND RATES WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.

\* BMP INFORMATION FROM "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (AUGUST, 2005)." INFORMATION OBTAINED VIA WEBSITE: <http://www.dec.ny.gov/chemical/29086.html>  
APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES  
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

**SEC-9**  
**MULCH MATERIALS, RATES AND**  
**USES (FROM NY) \***

## SUBJECT

Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

## UPLAND ROW RESTORATION MIX – GENERAL

### Species Composition Options:

- Andropogon gerardii; Niagra Big Bluestem
- Schizachyrium scoparium; Little Bluestem
- Elymus Canadensis; Canada Wild Rye
- Elymus virginicus; Virginia Wildrye
- Lolium multiflorum; Annual Ryegrass
- Sorghastrum nutans; Indiangrass
- Chamaecrista fasciculata; Partridge Pea
- Desmodium canadense; Showy Tick Trefoil
- Heliopsis helianthoides; Ox–Eye Sunflower
- Panicum virgatum; Switchgrass
- Rudbeckia hirta; Black Eyed Susan
- Poa palustris; Fowl Bluegrass
- Agrostis perennans; Upland Bentgrass
- Agrostis alba; Redtop
- Festuca rubra; Red Fescue
- Lotus corniculatus; Birds–Foot Trefoil
- Chrysanthemum leucanthem; Ox–Eye Daisy
- Aster novae–angliae; New England Aster

### Example Seed Mixes:

1. Native Upland wildlife forage and Cover Meadow Mix – Ernst Conservation Seeds (ERNMX–123)
2. Eastern Ecotype Native Grass Mix– Ernst Conservation Seeds (ERNMX–177)
3. New England Native Warm Season Grass Mix – New England Wetland Plants, Inc.
4. New England Logging Road Mix – New England Wetland Plants, Inc.
5. Northeast Upland Wildflower/Restoration Erosion Mix – Southern Tier Consulting (STCMX–2)

## UPLAND ROW RESTORATION MIX – DRY/ROCKY SITES

### Species Composition Options:

- Festuca rubra; Red Fescue
- Schizachyrium scoparium; Little Bluestem
- Elymus Canadensis; Canada Wild Rye
- Bouteloua gracillis; Blue Grama
- Lolium multiflorum; Annual Ryegrass
- Lolium perenne; Perennial Ryegrass
- Agrostis scabra; Rough Bentgrass
- Agrostis perennans; Upland Bentgrass
- Sorghastrum nutans; Indiangrass

### Example Seed Mixes:

1. New England Erosion Control/ Restoration Mix for Dry Sites – New England Wetland Plants, Inc.
2. Ernst Conservation Seeds and similar companies can create a custom seed mix matching the composition above (with site specific additions if necessary).

## SUBJECT

Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

## WETLAND ROW RESTORATION MIX

### Species Composition Options:

- Agrostis stolonifera; Creeping Bentgrass
- Poa trivialis; Rough Bluegrass
- Alopecurus arundinaceus; Creeping Meadow Foxtail
- Lolium multiflorum; Annual Ryegrass
- Festuca rubra; Creeping Red Fescue
- Elymus virginicus; Virginia Wildrye
- Schizachyrium scoparium; Little Bluestem
- Andropogon gerardii; Niagra Big Bluestem
- Carex vulpinoidea; Fox sedge
- Panicum virgatum; Switchgrass
- Agrostis scabra; Rough Bentgrass
- Aster novae-angliae; New England Aster
- Eupatorium perfoliatum; Boneset
- Euthamia graminifolia; Grass Leaved Goldenrod
- Scirpus atrovirens; Green Bulrush
- Verbena hastata; Blue Vervain
- Juncus effusus; Soft Rush
- Scirpus cyperinus; Wool Grass
- Panicum clandestinum; Deertongue

### Example Seed Mixes

1. New England Erosion Control/Restoration Mix for Detention Basins and Moist Sites – New England Wetland Plants, Inc.
2. Northeast Wetland Grass Seed Mix – Southern Tier Consulting (STCMX-7)
3. Ernst Conservation Seeds and similar companies can create a custom seed mix matching the composition above (with site specific additions if necessary).

### GERNERAL NOTES:

1. Seed mixes described herein are intended to cover a variety of typical new england landscapes. However, site specific seed mixes will need to be evaluated in coastal or mountainous regions.
2. Seed mixes described herein are intended for general ROW restoration. Site specific wetland seed mixes may be required by local, state and/or federal regulators for certain impacts to wetlands.
3. All seed mixes are to be approved by National Grid Environmental Scientist prior to construction and must conform with all project permits.
4. Seedbed preparation and maintenance as well as temporary erosion and sediment controls are crucial to the establishment of newly seeded areas. Coordinate with National Grid Environmental Scientist on seed bed preparation and maintenance as well as temporary erosion and sediment controls prior to construction.

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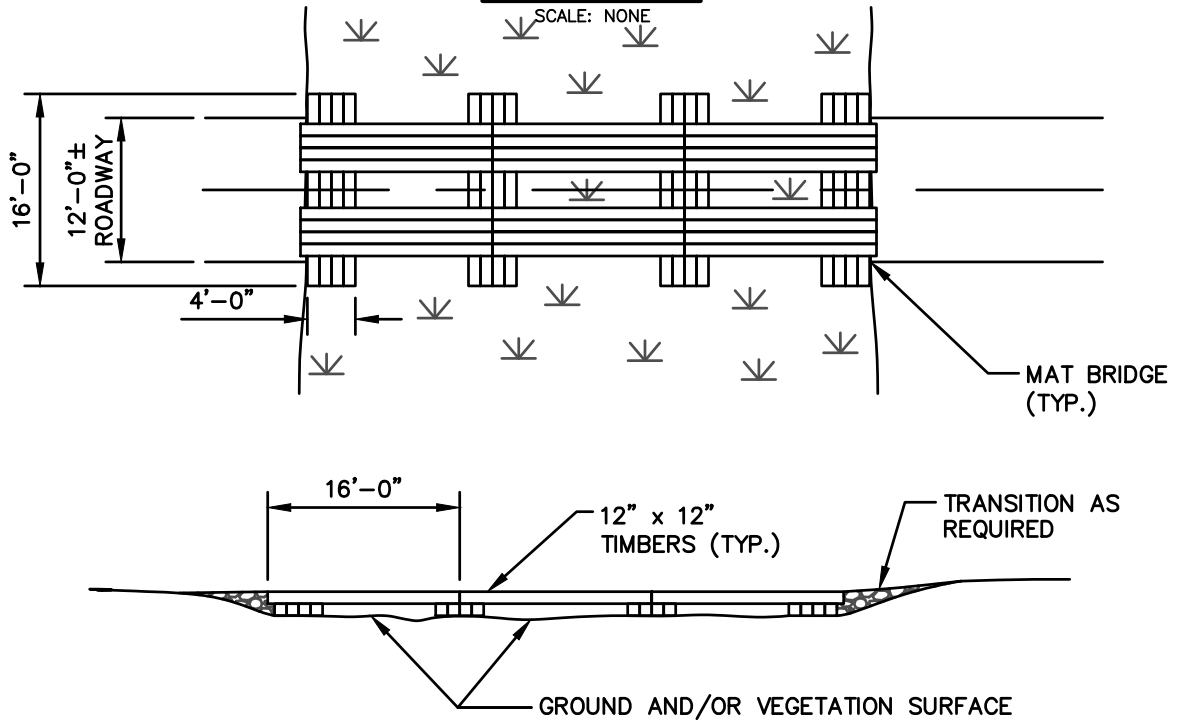
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SEC-11  
SEEDING OPTIONS -  
WETLAND SEED MIX

**SUBJECT**  
Access, Maintenance and Construction  
Best Management Practices

**Reference**  
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**



**NOTES:**

1. IF MATS ARE INSTALLED IN A WETLAND AREA, INSTALL EROSION CONTROLS TO CONTAIN MATERIAL UTILIZED IN THE MAT TRANSITIONS.

**BMP PICTURE**



File: Mat\_Bridge.dwg

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**CM-2**  
**CONSTRUCTION MAT BRIDGE**  
**(1 OF 2)**

**SUBJECT**

Access, Maintenance and Construction  
Best Management Practices

**Reference**

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP PICTURE - SINGLE SPAN**

SCALE: NONE



**NOTES:**

1. WHERE STREAM WIDTH ALLOWS, INSTALL CONSTRUCTION MATS TO SPAN THE WATERCOURSE IN ITS ENTIRETY WITHOUT STRINGER PLACEMENT IN THE WATER OR ANY RESTRICTION OF STREAM FLOW.
2. INSTALLATION OF THE CONSTRUCTION MAT BRIDGE SHALL NOT DAMAGE THE STREAM BED AND BANKS. WHERE POSSIBLE, FOOTERS SHALL BE PLACED PARALLEL TO THE TOP OF THE STREAM BANKS, WITH ACCESS MATTING PLACED ACROSS THE TOP OF THE STRINGERS DISTRIBUTING THE WEIGHT OF THE CONSTRUCTION EQUIPMENT.
3. AT STREAM CROSSINGS THAT CANNOT BE SPANNED BY A SINGLE SECTION OF CONSTRUCTION MATTING, AND WHERE PERMITS ALLOW, STRINGERS SHALL BE PLACED ATOP THE STREAM BED PARALLEL TO THE FLOW OF WATER.

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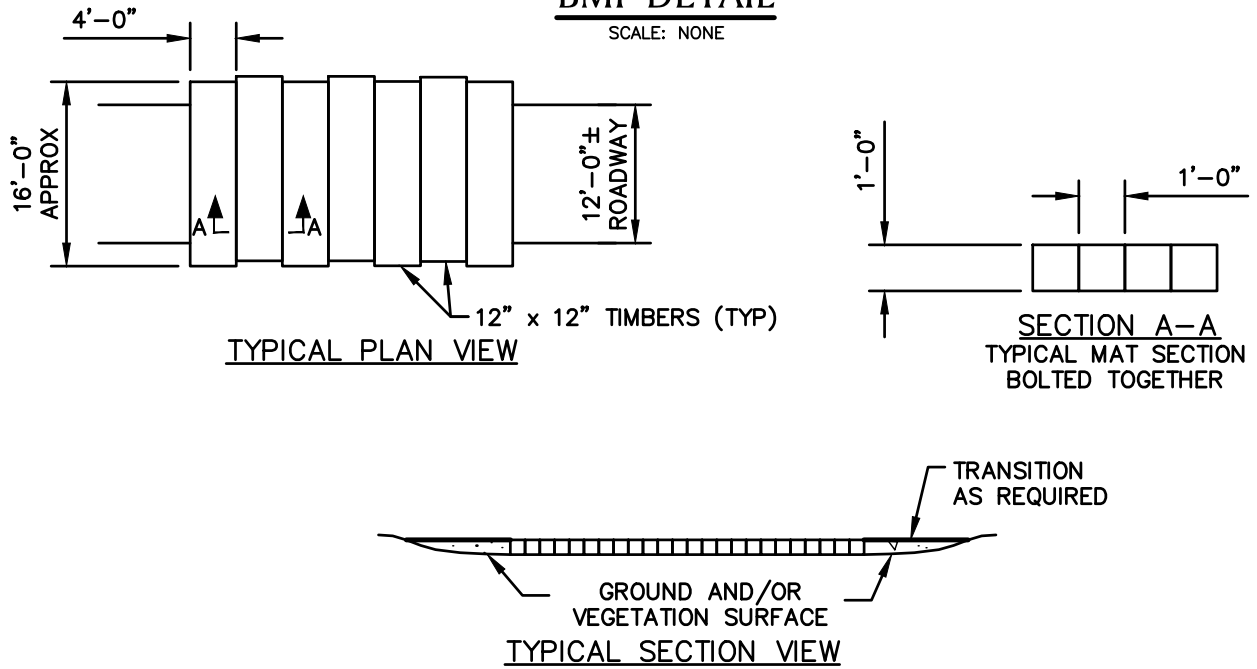
CM-2  
**CONSTRUCTION MAT BRIDGE**  
(2 OF 2)

SUBJECT  
Access, Maintenance and Construction  
Best Management Practices

Reference  
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE



**NOTES:**

1. TO BE INSTALLED IF NECESSARY TO PREVENT RUTTING, TO ACCESS STRUCTURES.
2. THIS DETAIL SHOWS TYPICAL DIMENSIONS. SOME CONTRACTOR'S CONSTRUCTION MATS ARE DIMENSIONALLY DIFFERENT FROM WHAT IS SHOWN HERE.
3. DEPENDENT ON SITE CONDITIONS, MULTIPLE LAYERS OF CONSTRUCTION MATS MAY BE INSTALLED.

**BMP PICTURE**



File: Swamp\_Mat\_Layout.dwg

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**CM-3**  
**CONSTRUCTION MAT LAYOUT**  
**(WITH TRANSITION)**





**SUBJECT**

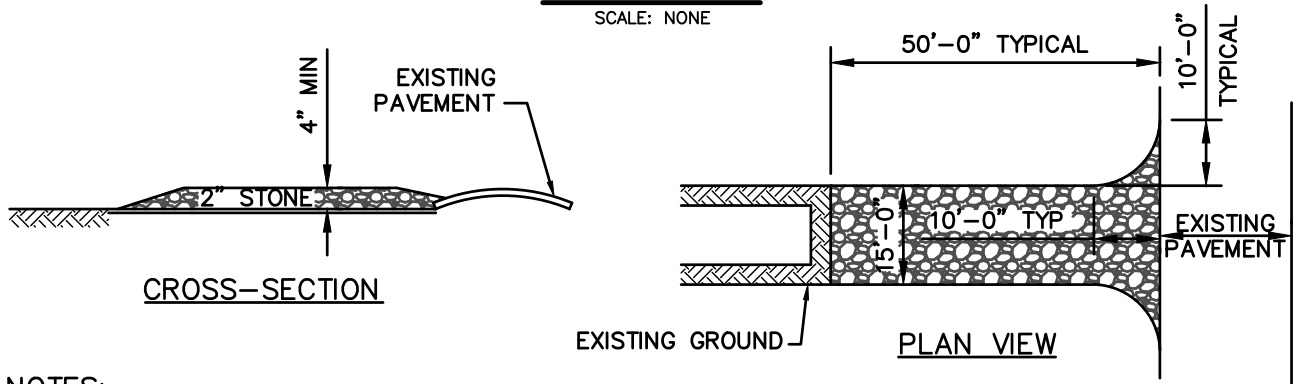
Access, Maintenance and Construction  
Best Management Practices

**Reference**

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE



**NOTES:**

1. STONE SIZE – USE 2” STONE (MINIMUM) TO 6” STONE (MAXIMUM)
2. LENGTH – GREATER THAN OR EQUAL TO 50 FEET
3. THICKNESS – 4”
4. WIDTH – FIFTEEN (15) FOOT TYP., BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS ENTRANCE. IF PIPING IS IMPRACTICAL, MOUNTABLE BERM SHALL BE PERMITTED.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.
8. THE CLEAN STONE SHOULD BE INSTALLED OVER A GEOTEXTILE FABRIC. GEOTEXTILE FABRIC MAY BE OMITTED FOR PERMANENT CONSTRUCTION ENTRANCES/EXITS ON A CASE-BY-CASE BASIS WITH THE APPROVAL OF THE NATIONAL GRID ENVIRONMENTAL SCIENTIST.
9. FOLLOWING CONSTRUCTION, THE CONSTRUCTION ENTRANCE/EXIT SHALL BE REMOVED AND THE AREA GRADED, SEEDED, AND MULCHED AS NEEDED. ENTRANCE/EXITS MAY REMAIN DEPENDING UPON FUTURE ACCESS NEEDS AND/OR PROJECT-SPECIFIC APPROVALS BUT REQUIRES APPROVALS FROM THE NATIONAL GRID ENVIRONMENTAL SCIENTIST AND PROPERTY LEGAL.

**BMP PICTURE**



File: Temp\_Construction\_Ent.dwg

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**CM-8**  
**TEMPORARY CONSTRUCTION**  
**ENTRANCE/ EXIT**

**SUBJECT**

Access, Maintenance and Construction  
Best Management Practices

**Reference**

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP PICTURE**



**NOTE:**

1. PICTURE SHOWS VIEW OF ACCESS WAY STABILIZATION ADJACENT TO A WETLAND.
2. COORDINATE STABILIZATION DESIGN AND PRODUCT WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.

File: Access\_Stabilization.dwg

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**CM-10**  
**ACCESS WAY STABILIZATION**

**SUBJECT**

Access, Maintenance and Construction  
Best Management Practices

**Reference**

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP PICTURE**



**NO ACCESS – WETLAND/STREAM CROSSING MATS REQUIRED**



**NO ACCESS – A.) PROJECT LIMITS E.G. ROW LIMITS  
B.) HISTORICAL/CULTURAL  
C.) ENVIRONMENTALLY SENSITIVE E.G. THREATENED & ENDANGERED  
D.) OTHER**



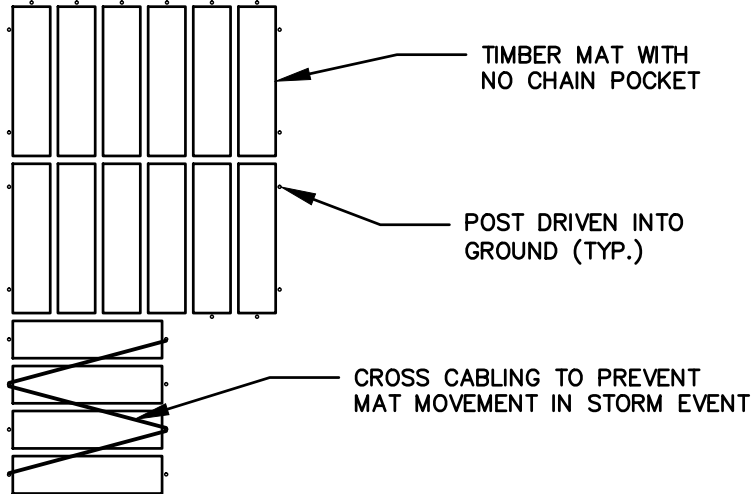
**APPROVED ACCESS**

**SUBJECT**  
Access, Maintenance and Construction  
Best Management Practices

Reference  
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL 1**

SCALE: NONE



TYPICAL PLAN VIEW

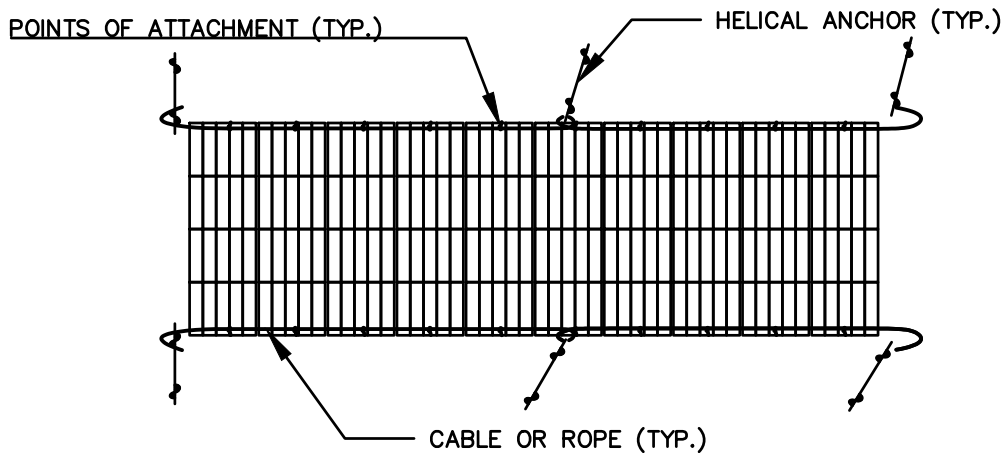
**NOTES:**

1. EXAMPLES OF ANCHORING ONLY. MATTING CONTRACTOR SHALL PROPOSE THE METHOD OF ANCHORING BASED ON FIELD CONDITIONS.
2. ANCHORING METHOD TO BE APPROVED BY THE NATIONAL GRID ENVIRONMENTAL SCIENTIST AND TRANSMISSION LINE CONSTRUCTION SUPERVISOR.

**BMP DETAIL 2**

**NOTES:**

1. TYPICAL HELICAL ANCHOR AND CABLE CONFIGURATION FOR MAT CONTAINMENT IN FLOODPLAINS/LAND SUBJECT TO FLOODING.
2. TYPICAL POINTS OF ATTACHMENT HEAVY STAPLES, EYE BOLTS OR OTHER SUITABLE HARDWARE TO SECURE ATTACHMENT OF MAT TO LINEAR CABLE. IF CHAIN POCKETS ARE PRESENT IN THE MATS CABLE OR ROPE CAN BE LOOPED THROUGH RODS.



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**CM-12**  
**EXAMPLE OF CONSTRUCTION MAT**  
**ANCHORING (1 OF 2)**

SUBJECT

Access, Maintenance and Construction  
Best Management Practices

Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

BMP PICTURE 1



BMP PICTURE 2



File: Const\_Mat\_Anchoring.dwg

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CM-12  
EXAMPLE OF CONSTRUCTION MAT  
ANCHORING (2 OF 2)

## SUBJECT

Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE

## WIRE BACKED SILT FENCE

**MUTUAL INDUSTRIES WIRE BACKED SILT FENCE**

PART # 1776-14-24

36" X 100'

36" MISF 1776 FABRIC

24" 14GA WIRE MESH

OPENING OF MESH 2" X 4"

FABRIC HOG RINGED EVERY 12"-18" ALONG THE TOP OF THE FENCE

ROLL WEIGHT 40 LBS

32 ROLLS PER PALLET

**NOTES:**

1. PRODUCT TO BE MUTUAL INDUSTRIES' WIRE BACKED SILT FENCE OR APPROVED EQUAL BY NATIONAL ENVIRONMENTAL SCIENTIST.
2. COORDINATE INSTALLATION METHOD AND LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.

\* PICTURE AND DETAIL PROVIDED BY MUTUAL INDUSTRIES

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AA-1

REINFORCED SILT FENCE \*

SUBJECT

Access, Maintenance and Construction  
Best Management Practices

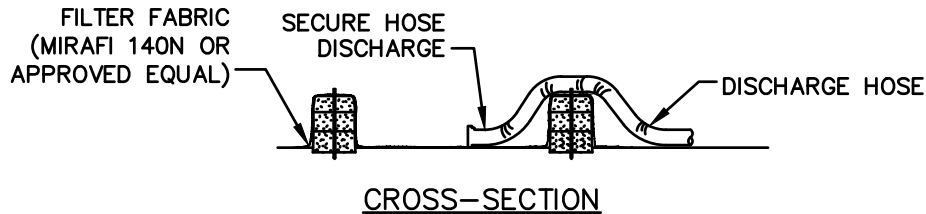
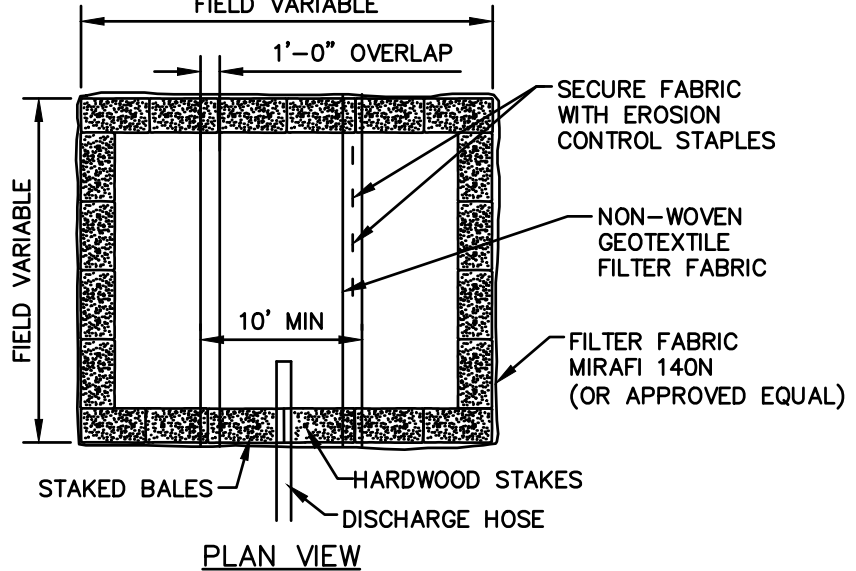
Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE

FIELD VARIABLE



**NOTES:**

1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS,
2. THE BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.
3. KEEP AS FAR FROM WETLANDS AS PRACTICAL.
4. CLEAN AND REMOVE AS SOON AS DEWATERING IS COMPLETE.

**BMP PICTURE**



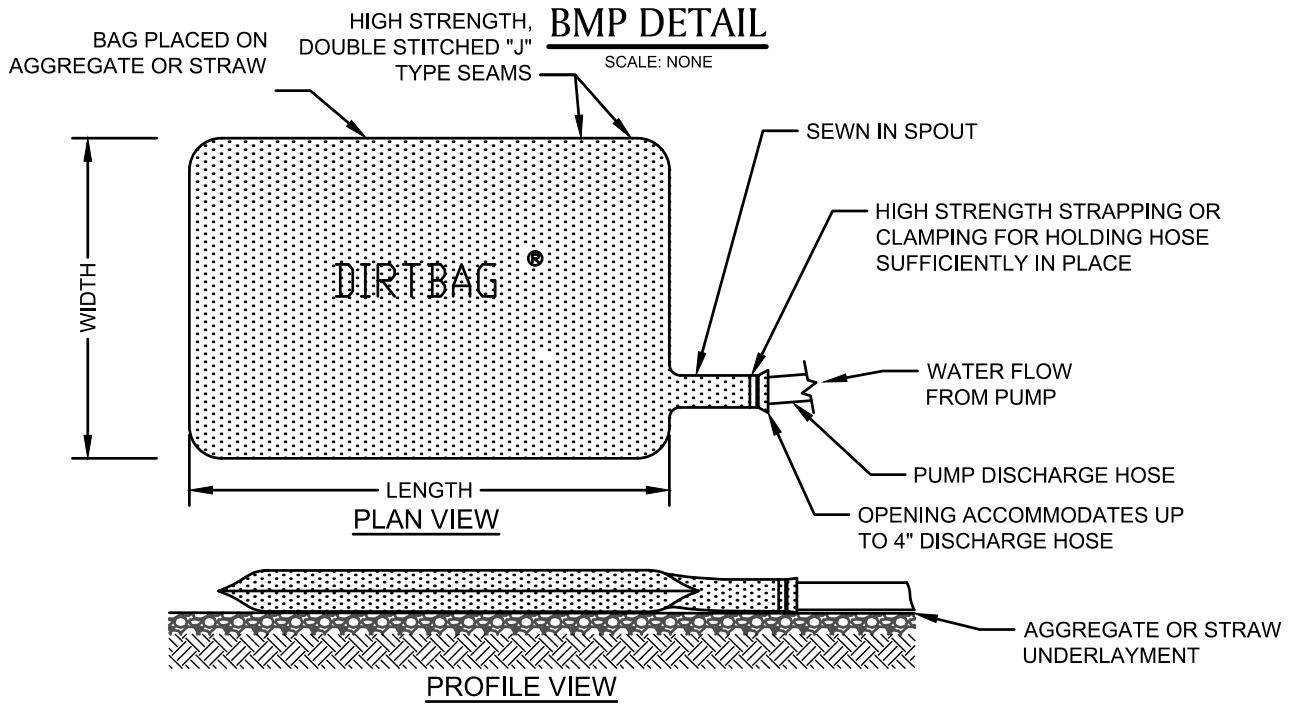
File: Dewat\_Bas\_Small.dwg

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**AA-10**  
**DEWATERING BASIN**  
**(SMALL SCALE)**

SUBJECT  
Access, Maintenance and Construction  
Best Management Practices

Reference  
EP No. 3 - Natural Resource  
Protection (Chapter 6)



**NOTE:**  
ONCE PUMPING COMMENCES, THE DIRT BAG SHALL BE MONITORED FREQUENTLY TO ASSURE THAT THE CONNECTIONS ARE SECURELY FASTENED AND THE RATE OF WATER DELIVERY TO THE STRUCTURE IS LOW ENOUGH TO PREVENT UNFILTERED WATER FROM FLOWING FROM THE HOSE CONNECTIONS OR BAG.

**BMP PICTURE**



\* PICTURE AND DETAIL PROVIDED BY ACF ENVIRONMENTAL  
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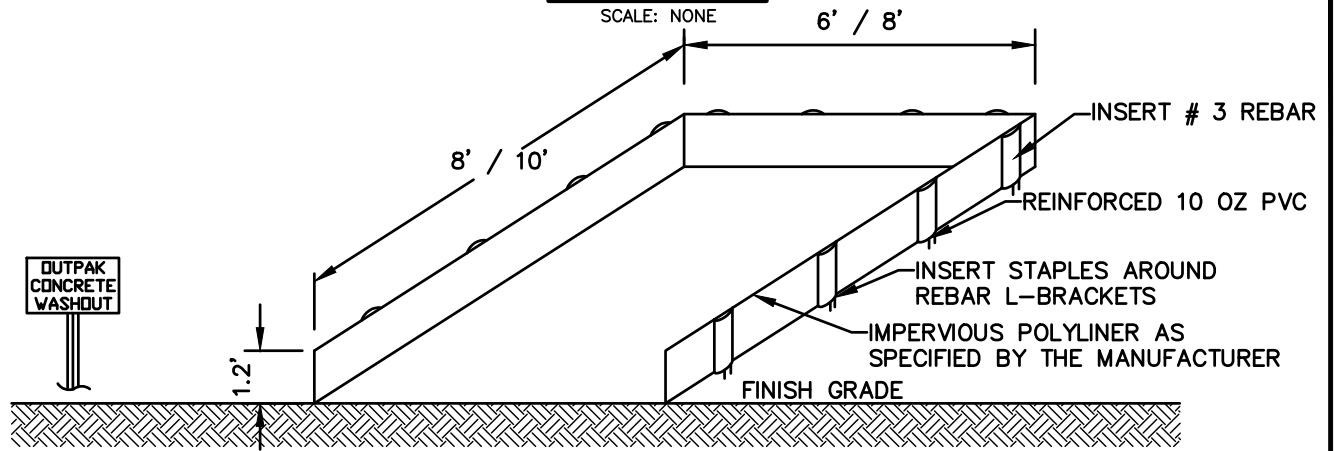
AA-12  
DIRTBAG \*



**SUBJECT**  
Access, Maintenance and Construction  
Best Management Practices

Reference  
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**



**CROSS SECTION**

**NOTES:**

1. PRODUCT TO BE OUTPAK PVC CONCRETE WASHOUT OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT.
3. SIGNS SHALL BE PLACED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT.
4. THE CONCRETE WASHOUT AREA WILL BE REPLACED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTE CONCRETE AND OTHER LIQUID WASTE.
5. WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPENSED OF AT AN APPROVED WASTE SITE.
6. DO NOT MIX EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
7. DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
8. AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.
9. LOCATE WASHOUT AREA AT LEAST 50' FROM STORM DRAIN, OPEN DITCHES, OR WATERBODIES. COORDINATE LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.
10. WASH OUT WASTES INTO THE OUTPAK WASHOUT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY.
11. A SECURE, NON-COLLAPSING, NON-WATER COLLECTING COVER MUST BE PLACED OVER CONCRETE WASHOUT PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW OF PRECIPITATION.

**BMP PICTURE**



\* PICTURE AND DETAIL PROVIDED BY OUTPAK WASHOUT  
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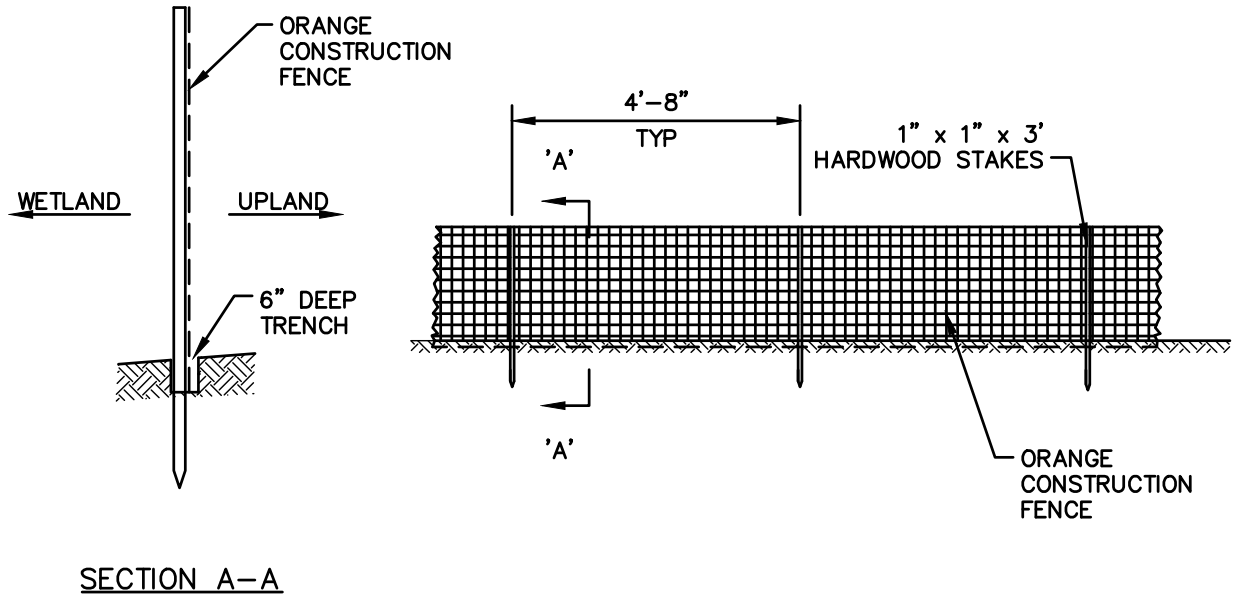
AA-14  
**OUTPAK CONCRETE WASHOUT \***

**SUBJECT**  
Access, Maintenance and Construction  
Best Management Practices

Reference  
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE



**BMP PICTURE**



File: Barrier\_Fence.dwg

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**AA-15**  
**BARRIER FENCE**  
**(CONSTRUCTION FENCE)**

**SUBJECT**  
Access, Maintenance and Construction  
Best Management Practices

Reference  
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP**



**Vegetative Cover** – For disturbed areas not subject to traffic, vegetation provides the most practical method of dust control (see Section 3).

**Mulch** (including gravel mulch) – Mulch offers a fast effective means of controlling dust. This can also include rolled erosion control blankets.

**Spray adhesives** – These are products generally composed of polymers in a liquid or solid form that are mixed with water to form an emulsion that is sprayed on the soil surface with typical hydroseeding equipment. The mixing ratios and application rates will be in accordance with the manufacturer’s recommendations for the specific soils on the site. In no case should the application of these adhesives be made on wet soils or if there is a probability of precipitation within 48 hours of its proposed use. Material Safety Data Sheets will be provided to all applicators and others working with the material.

**B. Driving Areas** – These areas utilize water, polymer emulsions, and barriers to prevent dust movement from the traffic surface into the air.

**Sprinkling** – The site may be sprayed with water until the surface is wet. This is especially effective on haul roads and access routes.

**Polymer Additives** – These polymers are mixed with water and applied to the driving surface by a water truck with a gravity feed drip bar, spray bar or automated distributor truck. The mixing ratios and application rates will be in accordance with the manufacturer’s recommendations. Incorporation of the emulsion into the soil will be done to the appropriate depth based on expected traffic. Compaction after incorporation will be by vibratory roller to a minimum of 95%. The prepared surface shall be moist and no application of the polymer will be made if there is a probability of precipitation within 48 hours of its proposed use. Material Safety Data Sheets will be provided to all applicators working with the material.

**Barriers** – Woven geotextiles can be placed on the driving surface to effectively reduce dust throw and particle migration on haul roads. Stone can also be used for construction roads for effective dust control.

**Windbreak** – A silt fence or similar barrier can control air currents at intervals equal to ten times the barrier height. Preserve existing wind barrier vegetation as much as practical.

**Definition**

The control of dust resulting from land-disturbing activities.

**Purpose**

To prevent surface and air movement of dust from disturbed soil surfaces that may cause off-site damage, health hazards, and traffic safety problems.

**Conditions Where Practice Applies**

On construction roads, access points, and other disturbed areas subject to surface dust movement and dust blowing where off-site damage may occur if dust is not controlled.

**Design Criteria**

**Construction operations should be scheduled to minimize the amount of area disturbed at one time.** Buffer areas of vegetation should be left where practical. Temporary or permanent stabilization measures shall be installed. No specific design criteria is given; see construction specifications below for common methods of dust control.

Water quality must be considered when materials are selected for dust control. Where there is a potential for the material to wash off to a stream, ingredient information must be provided to the local permitting authority.

**Construction Specifications**

**A. Non-driving Areas** – These areas use products and materials applied or placed on soil surfaces to prevent airborne migration of soil particles.

\* **BMP INFORMATION FROM "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (AUGUST, 2005)." INFORMATION OBTAINED VIA WEBSITE: <http://www.dec.ny.gov/chemical/29086.html> APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.**

**SUBJECT**

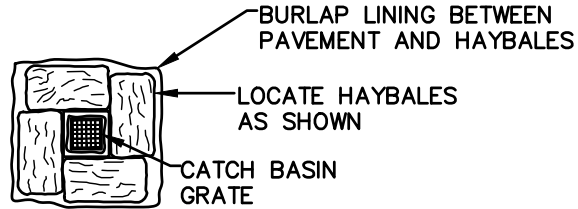
Access, Maintenance and Construction  
Best Management Practices

**Reference**

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE



TIE HAYBALES TOP &  
BOTTOM WITH 14  
GAUGE WIRE



**NOTES:**

1. SURROUND STREET DRAINAGE STRUCTURE INLET WITH HAY BALES PRIOR TO CONSTRUCTION AND MAINTAIN UNTIL CONSTRUCTION IS COMPLETED. ACCUMULATED SEDIMENTS SHALL BE REMOVED.
2. HAYBALES PLACED ON PAVEMENT SHALL HAVE BURLAP PLACED BETWEEN PAVEMENT AND HAYBALE

**BMP PICTURE**



File: CB\_Inlet\_Protection.dwg

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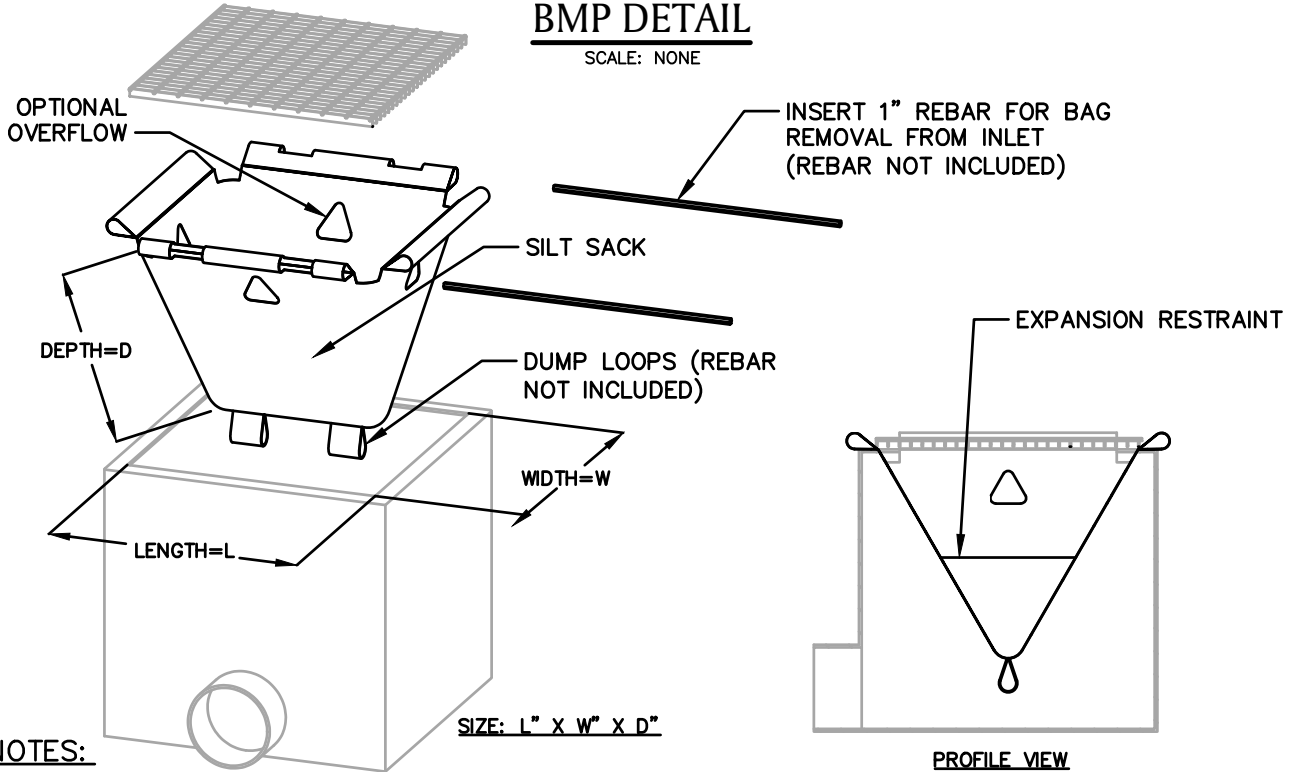
AA-19  
**CATCH BASIN INLET PROTECTION**

**SUBJECT**  
Access, Maintenance and Construction  
Best Management Practices

Reference  
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE



**NOTES:**

1. PRODUCT TO BE SILT SACK OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. THE USE OF A SILT SACK OPTIONAL OVERFLOW AND OVERALL DIMENSIONS ARE TO BE COORDINATED WITH A NATIONAL GRID ENVIRONMENTAL SCIENTIST.

**BMP PICTURE**



\* DETAIL PROVIDED BY ACF ENVIRONMENTAL  
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AA-20  
 SILT SACK \*