MASSWILDLIFE

DIVISION OF
FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581
p: (508) 389-6300 | f: (508) 389-7890
MASS.GOV/MASSWILDLIFE

MA ENDANGERED SPECIES ACT (G.L. c.131A)
CONSERVATION AND MANAGEMENT PERMIT

DATE		October 26, 2022
CONSERVATION PERMIT NO.:		022-404.DFW
NHESP FILE NO.		21-39898
PERMIT HOLDER		Eversource 107 Selden Street Berlin, CT 06037
PROJECT		Lines 1231 and 1242 Reconductor and Structure Replacement Project

A. Permit Authority

Pursuant to the authority granted in the Massachusetts Endangered Species Act ("MESA") (G.L. c. 131A) and its implementing regulations (321 CMR 10.23), the Director of the Massachusetts Division of Fisheries & Wildlife (the "Division") hereby issues a Conservation and Management Permit (the "Permit") to Eversource Energy (the "Permit Holder"). This Permit authorizes the Take of the Wood Turtle (*Glyptemys insculpta*), which is State-listed as "Special Concern," pursuant to the MESA.

In total, Eversource has proposed to conduct extensive structure replacements, along Lines 1231 and 1242, to address maintenance requirements located within the utility Right of Way (ROW) with the following beginning and ending UTM points: 18T 656722 mE / 4703587 mN (Berkshire Substation, Hinsdale); 18T 695552 mE / 4716002 mN (Cumberland Substation, Greenfield). Eversource is also proposing to replace existing shield wire with Optical Ground Wire (OPGW) along Line 1242 within an existing ROW with the following beginning and ending UTM points: 18T 695552 mE / 4716002 mN (Cumberland Substation, Greenfield); 18T 698739 mE / 4717913 mN (Montague Substation, Montague). The right-of-way(s) are encumbered by an easement granted to the Permit Holder and or its predecessor utilities and occupies various privately and publicly owned properties over a total distance of ±28 miles (the "ROW Property"). Portions of the Project intersecting Priority Habitat are located in the towns of Hinsdale, Windsor, Plainfield, Ashfield, Conway, Shelburne, Deerfield, Greenfield and Montague, as shown on the Site Location Map (Attachment 1, the "Project Area"). This Conservation and Management Permit will be recorded upon the title of fee owned land in Montague (Book 935/Page 446) at the Franklin County Registry of Deeds.

B. Description of Take

The Division has determined (letter dated 5/20/2022, Attachment 2, "the Determination") that the Project, as proposed, will result in a Take of Wood Turtle through the permanent and temporary loss and fragmentation of suitable habitat (see Table 1), and/or interference with feeding, breeding and migratory behaviors.

Table 1. Cumulative Impact Summary – Wood Turtle Habitat

Phase	Project Name & Year	Wood Turtle Habitat Temporary Impacts	Wood Turtle Habitat Permanent Impacts	Total Impacts
A	Line 312 (2020)	170,139 sf (3.9 ac)	51,313 sf (1.17 ac)	221,452 (5.1 ac)
B	Line 312 (2021)	7,149 sf (0.16 ac)	13,345 sf (0.3 ac)	20,494 (0.47 ac)
C	Lines 1231& 1242 (2022-2024)	493,736 sf (11.33 ac)	113,168 (2.59 ac)	604,922 sf (13.89 ac)
A, B & C		671,024 (15.40 ac)	177,826 (4.08 ac)	1,017,007 sf (23.35 ac)

The ROW Property contains Line 312 and Lines 1231-1242. Notwithstanding the anti-segmentation provisions of the MESA (321 CMR 10.16), the Division elected to allow a portion of the work on this ROW to proceed in advance of this Project. In particular, the recently completed Line 312 Structure replacement project in 2020 (determination letter 7/29/2020; "Phase A," Attachment 3), and improvements to 19 additional structure replacements on Line 312 in 2021-2022 (determination letter 11/4/2021 "Phase B," Attachment 4). The current Project "Phase C" includes twenty-three (23) structure installations (within Priority Habitat mapped for Wood Turtle), work pad creation and access road improvements totaling ±4.8-ac of permanent Wood Turtle impacts, and temporary impacts through the placement of construction matting and temporary gravel, totaling ±11.33-ac. The Division has considered the impacts cumulatively for all phases of work, as detailed in Table 1. The Division also determined (Attachment 2) that the Project will not result in a prohibited Take of the species listed below (Table 2), provided that the Permit Holder adheres to certain conditions outlined therein. These conditions include implementation of a Division-approved rare plant protection plan (Attachment 5) and salamander protection plan (Attachment 6) to be implemented during construction.

Table 2. Species requiring MESA conditions, Determination letter (Attachment 2)

Scientific name	Common Name	Taxonomic Group	State Status
Ambystoma jeffersonianum	Jefferson Salamander	Amphibian	Special Concern
Carex hitchkockiana	Hitchcock's Sedge	Plant	Special Concern
Celastrus scandens	American Bittersweet	Plant	Threatened
Clematis occidentalis	Purple Clematis	Plant	Special Concern
Equisetum scirpoides	Dwarf Scouring Rush	Plant	Special Concern
Geum fragarioides	Barren's Strawberry	Plant	Special Concern
Adlumia fungosa	Climbing fumitory	Plant	Special Concern

C. Permit Performance Standards

Under the authority granted by and in accordance with MGL c131A§3 and 321 CMR 10.23, the Director may permit the Take of a State-listed species for conservation and management purposes provided that there is a long-term Net Benefit to the conservation of the impacted species. If the Director determines that the applicant for a permit has avoided, minimized and mitigated impacts to the State-listed Species consistent with the following performance standards, then the Director may issue a conservation and management permit, provided:

(a) the applicant has adequately assessed alternatives to both temporary and permanent impacts to State-listed Species;
(b) an insignificant portion of the local population would be impacted by the Project or Activity, and;
(c) the applicant agrees to carry out a conservation and management plan that provides a long-term Net Benefit to the conservation of the State-listed Species that has been approved by the Director, as provided in 321 CMR 10.23(5), and shall be carried out by the applicant.

The Director has determined that the applicant for this Permit has met the above noted performance standards and that the conservation and management plan described herein provides a long-term Net Benefit to the conservation of the Wood Turtle.

D. Conservation and Management Plan

In order to provide a long-term Net Benefit to the conservation of the same, the Permit Holder has proposed, by way of the Permit Application, to (s) conduct Wood Turtle field surveys and radio tracking during 2021 & 2022 field seasons; (b) enhance and manage seven (7) identified areas within the ROW Property as Wood Turtle nesting habitat pursuant to a Division approved plan; and (c) Conduct two (2) years of follow-up surveying and monitoring to document nesting behaviors of the Wood Turtle population.

In order to avoid and minimize impacts to Wood Turtle, the Permit Holder, has proposed by way of the Permit Application to implement turtle protection measures which include visual sweeps conducted by a qualified biologist in work areas, and construction staff education about the likely presence of State-listed Species on the Property and appropriate responses to any sightings.

Therefore, the Project can be permitted pursuant to the MESA. This Permit is issued to condition the Project and to provide a long-term Net Benefit to the Wood Turtle.

E. Documents and Plans of Records

In accordance with the documents and plans of record submitted to the Division entitled:

- "Conservation and Management Permit Application" (dated 8/4/2022; prepared Oxbow Associates, Inc.; the "Permit Application");
- Lines 1231 and 1242 Reconductor and Structure Replacement Project (dated July 7, 2022, prepared by Epsilon Associates, Inc. for Eversource Energy; included in the Permit Application; and incorporated by reference herein as the "Project Plan")
- Site Location Map (the "Project Area"; Attachment 1);
- Line 1231 & 1242 (Phase C) MESA Determination Letter (dated 5/20/2022; Attachment 2);
- Line 312 (Phase A) MESA Determination letter (dated 7/29/2020; Attachment 3);
- Line 312 (Phase B) MESA Determination letter (dated 11/4/2021; Attachment 4);
- Plant Protection Plan (Attachment 5)
- Jefferson Salamander Protection Plan (Attachment 6)
- Wood Turtle Protection Plan (Attachment 7);
- Habitat Enhancement Plan (Attachment 8)

and any other plans and documents referenced herein (collectively, the "Plans of Record"), this Permit is issued with the following General and Special Conditions:

F. General Conditions

GC 1.		The Permit Holder shall comply with all General and Special Conditions of this Permit and complete the Project consistent with all Division-approved plans and supporting documents referenced herein, except as otherwise approved by the Division in writing.
GC 2.		A violation of any General or Special Condition of this Permit will result in an unauthorized Take and may be subject to civil and or criminal penalties pursuant to M.G.L. c. 131A. The Division reserves the right to require an immediate cessation of Work (as defined in Special Condition #1), in whole or in part and at its sole discretion, should the Permit Holder violate any General or Special Condition of this Permit.
GC 3.		The Permit Holder shall submit in writing any documents, plans, reports, or other items required for submission in accordance with this Permit, for review and written approval by the Division, except as otherwise approved by the Division in writing.
GC 4.		Division representatives shall have the right to enter and inspect the Property subject to this Permit at reasonable hours to evaluate Permit compliance and require the submittal of additional, reasonable information not otherwise required by this Permit but deemed necessary by the Division to complete its evaluation.
GC 5.		Any land protected to achieve a long-term Net Benefit associated with this Permit shall remain undeveloped and protected as habitat for State-listed Species in perpetuity.
GC 6.		This Permit shall not preclude the review of future projects on the Property that are subject to the Wetlands Protection Act Regulations (310 CMR 10.37, 10.58(4)(b), 10.59), as applicable, by the Division.
GC 7.		This Permit does not relieve the Permit Holder of the necessity of complying with all applicable federal, state or local statues, ordinances, bylaws or regulations, including but not limited to those administered by the Towns of Hinsdale, Windsor, Plainfield, Ashfield, Conway, Shelburne, Deerfield, Greenfield and Montague Conservation Commissions and the Massachusetts Department of Environmental Protection.
GC 8.		All Work shall be in conformance with the Plans of Record. Any changes, updates, or revisions to the Project, or any additional work beyond that shown on the Plans of Record, shall require additional review and approval by the Division prior to implementation, pursuant to General Condition #9. This Permit prohibits any work not specifically authorized by this Permit, unless otherwise approved by the Division in writing prior to performing the additional work.
GC 9.		Any proposed change to any plan identified in this Permit, or to the State-listed species conservation and management plan required by way of this Permit, shall require the Permit Holder to inquire of the Division, in writing, whether the change is significant enough to require the filing of a new Conservation and Management Permit Application, and or require additional long-term Net Benefit for affected State-listed Species. The Division retains the right to require the submittal of additional, reasonable information to evaluate the proposed plan change.
GC 10.		This Permit shall apply to, and inure to the benefit of, the Permit Holder and any successor-in-interest of the Permit Holder, or to a subsequent successor-in-control of the Property or portion thereof subject to this Permit should the Permit Holder convey its record ownership of the Property to said successor-in-control, as well as to any contractor or other person performing Work conditioned by this Permit. Within three (3) days of the transfer of an interest in the Property or a portion thereof, any successor-

		in-interest or subsequent successor-in-control [i.e., subsequent owners or operators] of the Property or a portion thereof shall provide the Division with a letter indicating (1) that the successor is the successor-in-interest of the Permit Holder or the successor-in-control [i.e., current owner or operator] of the Property or a portion thereof, and (2) that said successor will perform the obligations of the Permit Holder as set forth in this Permit.
GC 11.		**Prior to the initiation of Work**, the Permit Holder shall notify the Division in writing of the name, address, email, business and home telephone numbers of the project supervisor(s) and/or contractor(s) responsible for compliance with this Permit. The Permit Holder shall provide updated information in writing to the Division should new or additional project supervisors and/or contractors be hired after Work has commenced. **Prior to the initiation of Work**, said project supervisor(s) and/or contractor(s) shall be provided a copy of this Permit. Said project supervisor(s) and/or contractor(s) may be held responsible for violations of this Permit performed by said project supervisor(s) and/or contractor(s).
GC 12.		**Prior to the initiation of Work**, the text of this Permit shall be recorded by the Permit Holder in the Registry of Deeds or the Land Court for the district in which the Property is located so as to become a record part of the chain of title of the Property. In the case of recorded land, the Permit shall be noted in the Registry's Grantor Index under the name of the owner of the Property upon which the proposed Work is to be done. In the case of registered land, the Permit shall be noted on the Land Court Certificate of Title of the owner of the Property upon which the proposed Work is done. The Permit Holder shall submit to the Division a date-stamped and signed copy of said recorded Permit showing the date and book and page of recording within five (5) business days after recording and/or filing, as applicable. No Work shall be initiated on the Property until the Permit is recorded and said recorded copy is submitted to the Division, except as otherwise approved by the Division in writing.
GC 13.		**Prior to the initiation of Work**, the Permit Holder shall send a summary report to the Division which: (a) demonstrates compliance with all pre-Work General and Special Conditions of the Permit; and (b) requests permission to initiate the Work authorized by the Permit. Unless otherwise authorized by the Division in writing, **no Work may be initiated on the Property** until the Permit Holder has received written confirmation from the Division confirming compliance with all pre-Work General and Special Conditions and authorizing the initiation of Work. **Within three (3) days of the initiation of Work**, the Permit Holder shall send a letter to the Division confirming the date upon which Work commenced.
GC 14.		The Project authorized by this Permit shall be completed within five (5) years from the date of issuance. If needed, the Permit Holder shall submit a written request to the Division for an extension of time to complete said Project, and the Division will review the Project pursuant to MESA for any continuing impacts as described herein and for any new impacts to any State-listed species found subsequent to the issuance date of this Permit. Said request shall be submitted to the Division at least sixty (60) days prior to expiration of this Permit, and shall include a summary report demonstrating compliance with all General and Special Conditions of this Permit.
GC 15.		**Within (3) months of the completion of Work** the Permit Holder shall submit to the Division a written request for a Certificate of Permit Compliance (the "Certificate"), including as-built plans and other supporting materials demonstrating the completion of Work and compliance with all General and Special Conditions of the Permit. The text of the Division-issued Certificate shall be recorded by the Permit Holder in the Registry of Deeds or the Land Court for the district in which the Property is located so as to become a record part of the chain of title of the Property. Unless an extension is granted in writing by the Division pursuant to General Condition #14, the Permit Holder shall record the Division-issued Certificate **prior to expiration of the Permit**. The Permit Holder shall submit to the Division a date-stamped and signed copy of said

		recorded Certificate showing the date and book and page of recording **within five (5) business days after recording and or filing**, as applicable.

G. Special Conditions:

SC 1.		Work Authorized by the Permit: This Permit authorizes the construction of 23 transmission structures (in mapped wood turtle habitat), use of existing roadways, access roadway improvements where necessary, grading, establishment of gravel work pads, and placement of temporary construction matting, as shown on the Project Plan (the "Work"). The Work also includes any other on-site activity required by the Division as a condition of this Permit. All Work shall be confined to the area of the Property within the ROW Property as shown on the Project Plan.
SC 2.		Wood Turtle Field Surveys: In order to provide a Net Benefit to the conservation of Wood Turtle, the Permit Holder has elected, by way of the Permit Application, to monitor and radio-track Wood Turtles, specifically associated with the Swift and Bear Rivers, during the 2021 & 2022 field seasons in accordance with a Division-approved protocol (dated 6/3/2022). The Permit Holder shall submit a survey & monitoring progress report to the Division prior to **December 31, 2022**, unless otherwise approved by the Division.
SC 3.		Nesting Habitat Enhancement: In order to provide a Net Benefit to the conservation of Wood Turtle, the Permit Holder has elected, by way of the Permit Application, to create seven (7) high quality nesting areas (the "Restoration Areas"), as shown on the Project Plan, and as described in the Habitat Enhancement Plan (Attachment 8) and with oversight by the Division-approved wildlife biologist. Any changes to the Habitat Enhancement Plan shall require prior review and written approval from the Division. Unless otherwise approved by the Division in writing, the nesting enhancement activities shall occur during the Wood Turtle inactive season (1 November - 31 March of any year). Permit Holder shall complete the enhancement activities pursuant to the Enhancement Plan **prior to May 1, 2023**. **Within 30 days following completion of the enhancement**, said wildlife biologist shall provide written certification to the Division of having completed initial restoration activities in accordance with the Enhancement Plan.
SC 4.		Demarcation of Habitat Enhancement Areas: **Prior to May 1, 2024**, or as otherwise approved by the Division in writing, the habitat enhancement areas shall be marked with signage as approved by the Division. Said permanent signage shall be maintained in good condition by the Permit Holder and repaired or replaced as necessary.
SC 5.		Follow-up Survey & Monitoring (2023 & 2024): In order to provide a Net Benefit to the conservation of Wood Turtle, the Permit Holder has elected, by way of the Permit Application, to conduct two (2) years of survey and monitoring to document nesting behaviors of the Swift and Bear River Wood Turtle populations in accordance with a Division-approved survey protocol. A final report shall be submitted prior to **December 31, 2024.**
SC 6.		Wood Turtle Protection Plan: The Permit Holder shall implement protective measures for state-listed turtles in accordance with the Wood Turtle Protection Plan (Attachment 7), which has been approved by the Division. All Work shall occur pursuant to the protective measures outlined within said Plan, which shall be implemented as written unless otherwise by the Division in writing. Any proposed changes to said Plan shall be submitted to the Division for review and written approval prior to implementation of any changes. Said Plan must be implemented by a qualified, Division-approved

		wildlife biologist in possession of a valid Scientific Collection Permit obtained from the Division. The wildlife biologist shall prepare and deliver an annual report documenting implementation of, and compliance with, said Plan by December 31 of each year in which Work associated with the Project occurs.
SC 7.		Plant Protection Plan: As required by way of the Determination (Attachment 2), the Permit Holder shall implement protective measures for avoidance of American Bittersweet, Bailey's Sedge, Dwarf Scouring Rush, Barren's Strawberry, Hitchcock's Sedge, Giant St. John's Wort, Climbing Fumitory and Purple Clematis in accordance with the Plant Protection Plan (Attachment 5), which has been approved by the Division. Any proposed changes to said Plan shall be submitted to the Division for review and written approval prior to implementation of any changes. Said plan must be implemented by a qualified, Division-approved botanist in possession of a valid Scientific Collection Permit obtained from the Division.
SC 8.		Jefferson Salamander Protection Plan: As required by way of the Determination (Attachment 2), the Permit Holder shall implement protective measures for Jefferson Salamander (Attachment 6) in accordance with the protection plan which has been approved by the Division. Any proposed changes to said Plan shall be submitted to the Division for review and written approval prior to implementation of any changes. Said plan must be implemented by a qualified, Division-approved botanist in possession of a valid Scientific Collection Permit obtained from the Division.
SC 9.		Temporary Demarcation of Limits of Work: Prior to the initiation of Work, the limits of Work shown on the Project Plan shall be monumented and marked with temporary flagging, silt fencing, and or other similar visual marker sufficient to clearly delineate the area of the Property within which all Work will occur.
SC 10.		Construction Staff Education: All construction, landscaping, and other sub-contractors associated with the Project shall be informed in writing of the likely presence of State-listed species on the Property and what measures should be implemented to minimize direct harm to State-listed Species. Further, no wildlife shall be removed from the Property without approval of a qualified, Division-approved wildlife biologist or the Division except as necessary to receive veterinary treatment in the case of harm during construction.
SC 11.		Ongoing Vegetation Management: Following completion of all Work associated with the Project, including restoration of temporarily disturbed areas, ongoing vegetation management and maintenance activities within the Eversource ROW within Priority Habitat shall occur in accordance with a Division-approved Yearly Operation Plan and/or Operations and Management Plan, unless otherwise approved by the Division.
SC 12.		Observations of State-listed Species: The Division shall be notified, in the form of an NHESP Rare Animal or Plant Observation Form, within ten (10) days of the observation of any State-listed species within or outside the limits of Work. Visit https://www.mass.gov/how-to/report-rare-species-vernal-pool-observations for access to Heritage Hub and observation reporting forms.

H. Notice of Appeal of Rights:

This Permit is a final decision of the Division of Fisheries and Wildlife pursuant to 321 CMR 10.23. Any person aggrieved by this decision shall have the right to an adjudicatory hearing at the Division pursuant to M.G.L. c. 30A, s.11 in accordance with the procedures for informal hearings set forth in 801 CMR 1.02 and 1.03.

Any notice of claim for an adjudicatory hearing shall be made in writing and be accompanied by a filing fee in the amount of $500.00. The notice of claim shall be sent to the Division by certified mail, hand delivered or postmarked within twenty-one (21) days of the date of issuance of this Permit to:

Mark S. Tisa, Director
Massachusetts Division of Fisheries and Wildlife
Field Headquarters
One Rabbit Hill Road
Westborough, MA 01581

Any notice of claim for an adjudicatory hearing shall include the following information:

1. The file number for the project;
2. The complete name, address and telephone number of the person filing the request, and the name, address and telephone number of any authorized representative;
3. The specific facts that demonstrate that a party filing a notice of claim satisfies the requirements of an "aggrieved person," including but not limited to (a) how they have a definite interest in the matters in contention within the scope of interests or area of concern of M.G.L. c. 131A or the regulations at 321 CMR 10.00 and (b) have suffered an actual injury which is special and different from that of the public and which has resulted from violation of a duty owed to them by the Division;
4. A clear statement that an adjudicatory hearing is being requested;
5. A clear and concise statement of facts which are grounds for the proceeding, the specific objections to the actions of the Division and the basis for those objections; and the relief sought through the adjudicatory hearing; and a statement that a copy of the request has been sent by certified mail or hand delivered to the applicant and the record owner, if different from the applicant.

Everose Schluter, Assistant Director
Massachusetts Division of Fisheries & Wildlife

On this 26th day of October, 2022, before me, the undersigned notary public, personally appeared Everose Schluter, Assistant Director, proved to me through satisfactory evidence of identification, which was personal knowledge, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

MELANY CHEESEMAN
Notary Public
Commonwealth of Massachusetts
My Commission Expires
January 24, 2025

Melany Cheeseman, Notary Public
My Commission Expires: January 24, 2025

Conservation and Management Permit 022-404.DFW
Issued: October 26, 2022
Expires: October 26, 2027

Acknowledgement and Acceptance of all Terms of this Permit

The undersigned below agrees that commencement of any work authorized by and described in this Permit constitutes acknowledgement and acceptance of all terms of this Permit.

Signatory 1 Organization

COMMONWEALTH OF MASSACHUSETTS

On this _____day of _____, 20___, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was _____ to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public:

_____

SEAL

My Commission Expires: _____

Distribution List

Hinsdale Board of Selectmen
Hinsdale Conservation Commission
Hinsdale Planning Board
Windsor Board of Selectmen
Windsor Conservation Commission
Windsor Planning Board
Plainfield Board of Selectmen
Plainfield Conservation Commission
Plainfield Planning Board
Ashfield Board of Selectmen
Ashfield Conservation Commission
Ashfield Planning Board
Conway Board of Selectmen
Conway Conservation Commission
Conway Planning Board
Shelburne Board of Selectmen
Shelburne Conservation Commission
Shelburne Planning Board
Deerfield Board of Selectmen
Deerfield Conservation Commission
Deerfield Planning Board
Greenfield Board of Selectmen
Greenfield Conservation Commission
Greenfield Planning Board
Montague Board of Selectmen
Montague Conservation Commission
Montague Planning Board
DEP Western Regional Office, Wetlands Program
Joe Rogers, DFW District Office
Andrew Madden, DFW District Office
Matthew Kelly, Epsilon Associates, Inc.
Scott Smyers, Oxbow Associates

Attachment 1

Site Location Map (the “Project Area”)

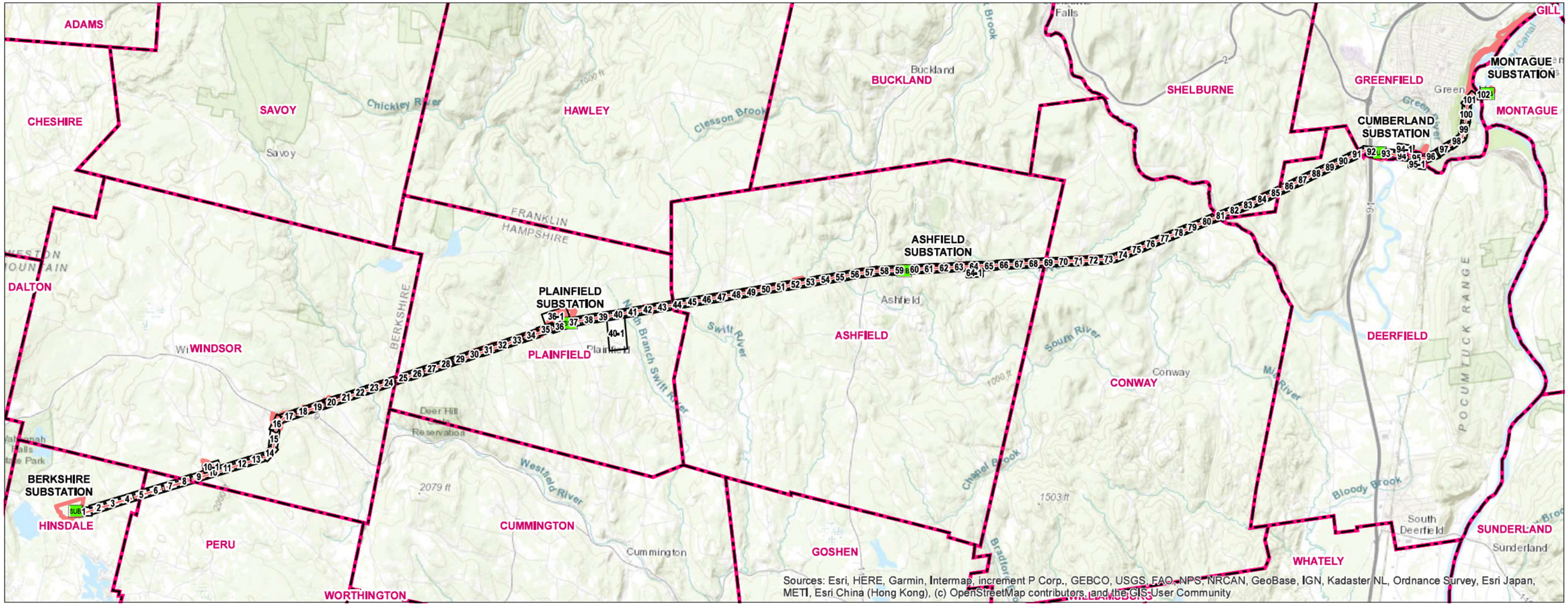
Lines 1231 and 1242 Reconductor and Structure Replacement Project

HINSDALE, PERU, WINDSOR, PLAINFIELD, ASHFIELD, CONWAY, SHELBURNE, DEERFIELD, GREENFIELD, & MONTAGUE, MA

Environmental Resources Map

DRAFT

Date: July 07, 2022



Legend

- Substation
- Overhead Transmission Line
- Map Sheet
- Eversource Owned Property
- Municipal Boundary

N

0 1 2 Miles

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

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Line List Information Sheets - 1A - 102-1A

NO.	DATE	REVISIONS
15	4/4	Wetland GR-W6 Update, Buffer Zone Impact Calcs
16	5/25	Edits in the Town of Conway
17	6/21	Shelburne Access Edits, Bridge Updates
18	6/24	Limits of Habitat Enhancement, Floodplain Limits, Gate Symbol
19	7/7	Update structure locations based on 100% Rebuild, Callout edits

PREPARED BY:

Epsilon ASSOCIATES INC.

3 Mill and Main Place, Suite 250
Maynard, MA 01754

Attachment 2

Line 1231 & 1242 (Phase C) MESA Determination Letter (dated 5/20/2022)

MASSWILDLIFE

DIVISION OF
FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581
p: (508) 389-6300 | f: (508) 389-7890
MASS.GOV/MASSWILDLIFE

May 20, 2022

Jonathan Roberge
Eversource Energy
107 Selden Street
Berlin CT 06037

RE:	**Applicant:**	**Jonathan Roberge, Eversource Energy**
	Project Location:	**Transmission ROW 1231-1242 located in Hinsdale, Peru, Windsor, Plainfield, Ashfield, Conway, Shelburne, Deerfield and Montague**
	Project Description:	**Lines 1231 and 1242 Reconductor and Structure Replacement Project** (Related to NHESP 20-39441: Line 312 Structure Replacement Project (2020 & 2021))
	NHESP File No.:	**21-39898**

Dear Mr. Roberge:

The Natural Heritage & Endangered Species Program of the Massachusetts Division of Fisheries & Wildlife (the "Division") received the MESA Project Review Checklist, site plans entitled "Lines 1231 and 1242 Reconductor and Structure Replacement Project and Line 312 Structure Replacement Project (2020 & 2021)" (dated 4/6/2022; prepared by Epsilon Associates, Inc. the "Project Plan") and additional materials in compliance with the Massachusetts Endangered Species Act (MGL. c. 131A) and its implementing regulations (321 CMR 10.00) (MESA).

The MESA prohibits the Take of state-listed species, which includes actions that "in reference to animals, means to harass, harm, pursue, hunt, shoot, hound, kill, trap, capture, collect, process, disrupt the nesting, breeding, feeding or migratory activity or attempt to engage in any such conduct, or to assist such conduct... Disruption of nesting, breeding, feeding or migratory activity may result from, but is not limited to, the modification, degradation or destruction of habitat of state-listed wildlife species" (321 CMR 10.02).

The Division has determined that the proposed project is located within the actual habitat of the state-listed species listed below, as well as a suite of state-listed lepidoptera species. These species and their habitats are protected in accordance with the MESA.

The project, as proposed, occurs within the ±26 miles of existing transmission right-of-way (ROW) occurring in the towns of Hinsdale, Peru, Windsor, Plainfield, Ashfield, Conway, Shelburne, Deerfield and Montague. Work associated with the project includes replacement of 69 transmission structures within Priority Habitat, replacement of shield wire (OPGW) and conductor wires and vegetation management (tree trimming and/or removal) within 50 ft of the 1231/1242 centerline. In order to safely access work areas, the Applicant proposes upgrades to access roadways, temporary and permanent work pads at structure locations and temporary wire pulling pads. The Division has been involved in ongoing consultations with the Applicant and their representatives regarding this project in order to address

impacts to state-listed species and their habitats within this ROW, which also houses Eversource's Line 312. Temporary and permanent impacts associated with this project on this ROW are cumulatively reviewed herein with impacts from upgrades on Line 312 in 2020 and 2021 (NHESP 20-39441, Division letter dated 7/29/2020 & NHESP 21-39898, Division letter dated 11/4/2021).

Plants

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 proposed must be conditioned in order to avoid a prohibited Take of Dwarf Scouring Rush, Barren's Strawberry, Purple Clematis, American Bittersweet and Hitchcock's Sedge (321 CMR 10.18(2)(a)). To avoid a prohibited Take of state-listed plants, the following condition must be met:

1. Plant Protection Plan: Prior to the start of Work, the Applicant shall submit a Rare Plant Protection Plan to the Division for review and written approval. Said plan shall detail procedures and best management practices for delineating and avoiding impacts to state-listed plants identified in and near the proposed work areas during construction, and be prepared and implemented by a qualified botanist in possession of a valid Scientific Collection Permit. Said Protection Plan shall be implemented as approved by the Division; any changes to the Plan must be submitted to the Division for review and written approval prior to implementation of said changes.

Jefferson Salamander

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 proposed must be conditioned in order to avoid a prohibited Take of the Jefferson Salamander (321 CMR 10.18(2)(a)). To avoid a prohibited Take of Jefferson Salamander, the following condition must be met:

2. Salamander Protection Plan: Prior to the start of Work, the Applicant shall submit a Salamander Protection Plan to the Division for review and written approval. Said plan shall detail procedures and best management practices for protecting state-listed salamanders during construction, and be prepared and implemented by a qualified biologist in possession of a valid Scientific Collection Permit. Said Salamander Protection Plan shall be implemented as approved by the Division; any changes to the Plan must be submitted to the Division for review and written approval prior to implementation of said changes.

Wood Turtle

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 result in a Take (321 CMR 10.18 (2)(b)) of the Wood Turtle due to the loss and or fragmentation of suitable habitats and interference with the feeding, breeding, over-wintering and migratory activities of this species.

Projects resulting in a Take of state-listed species may only be permitted if they meet the performance standards for a Conservation and Management Permit (CMP; 321 CMR 10.23). In order for a project to qualify for a CMP, the Applicant must demonstrate that the project has avoided, minimized and mitigated impacts to state-listed species consistent with the following performance standards: (a) adequately assess alternatives to both temporary and permanent impacts to the state-listed species, (b) demonstrate that an insignificant portion of the local population will be impacted, and (c) develop and agree to carry out a

conservation and management plan that provides a long-term net benefit to the conservation of the state-listed species.

This Determination is a final decision of the Division of Fisheries and Wildlife pursuant to 321 CMR 10.18. Any person aggrieved by this decision shall have the right to an adjudicatory hearing at the Division pursuant to M.G.L. c. 30A, s.11 in accordance with the procedures for informal hearings set forth in 801 CMR 1.02 and 1.03. Any notice of claim for an adjudicatory hearing shall be made in writing, accompanied by a filing fee in the amount of $500.00 and the information specified in 321 CMR 10.25 (3). The notice of claim shall be sent to the Division's Director, Mark S. Tisa, by certified mail, hand delivered or postmarked within twenty-one (21) days of the date of the Division's Determination.

Please note that projects resulting in a Take of two (2) or more acres within *Priority Habitat* must file an Environmental Notification Form with the Massachusetts Environmental Policy Act ("MEPA") Office and complete all MEPA actions prior to completing the MESA permitting process, per 301 CMR 11.03 (2)(b).

Please note that no soil or vegetation disturbance, work, clearing, grading or other activities related to the subject filing shall be conducted anywhere on the project site until the MESA permitting process is complete. If you have any questions regarding this letter, please contact Lauren Glorioso, Endangered Species Review Biologist, at lauren.glorioso@mass.gov or (508) 389-6361.

Sincerely,

Everose Schlüter, Ph.D.
Assistant Director

cc: Matthew Kelly, Epsilon Associates Inc.
Scott Smyers, Oxbow Associates, Inc.
Town of Ashfield Conservation Commission
Town of Conway Conservation Commission
Town of Plainville Conservation Commission

Attachment 3

Line 312 (Phase A) MESA Determination letter (dated 7/29/20)

MASSWILDLIFE

DIVISION OF
FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581
p: (508) 389-6300 | f: (508) 389-7890
MASS.GOV/MASSWILDLIFE

July 29, 2020

David Askew
Eversource Energy
107 Selden Street
Berlin, CT 06037

RE: Applicant: David Askew, Eversource Energy
Project Location: Existing Eversource ROW – Line 312; Plainfield, Conway, Ashfield, Deerfield, Montague
Project Description: Structure replacements, access road and work pad improvements
NHESP File No.: 20-39441

Dear Applicant:

The Natural Heritage & Endangered Species Program of the Massachusetts Division of Fisheries & Wildlife (the "Division") received the MESA Project Review Checklist, plans (6/2/2020), the Interim Report (dated July 2020) and other required materials for review pursuant to the Massachusetts Endangered Species Act (MESA) (MGL c.131A) and its implementing regulations (321 CMR 10.00).

The MESA is administered by the Division and prohibits the Take of state-listed species. The Take of state-listed species is defined as "in reference to animals…harm…kill…disrupt the nesting, breeding, feeding or migratory activity…and in reference to plants…collect, pick, kill, transplant, cut or process…Disruption of nesting, breeding, feeding, or migratory activity may result from, but is not limited to, the modification, degradation, or destruction of Habitat" of state-listed species (321 CMR 10.02).

The Division has determined that this Project, as currently proposed, will occur **within** the actual habitat of a suite of state-listed lepidoptera species and the state-listed species listed below. These species and their habitats are protected in accordance with the MESA.

Scientific Name	Common Name	Taxonomic Group	Status
Ambystoma jeffersonianum	Jefferson Salamander	Amphibian	Special Concern
Celastrus scandens	American Bittersweet	Plant	Threatened
Corallorhiza odontorhiza	Autumn Coral Root	Plant	Special Concern
Hypericum ascyron	Giant St. John's Wort	Plant	Endangered
Arisaema dracontium	Green Dragon	Plant	Threatened
Calystegia spithamaea	Upright Bindweed	Plant	Endangered
Cypripedium parviflorum	Yellow Lady Slipper	Plant	Endangered
Terrapene carolina	Eastern Box Turtle	Reptile	Special Concern
Heterodon platirhinos	Eastern Hognose Snake	Reptile	Special Concern
Glyptemys insculpta	Wood Turtle	Reptile	Special Concern

Based on the information provided and the information contained in our database, the Division finds that a portion of this project, as currently proposed, **will not result in a Take** of American Bittersweet, Upright Bindweed, Yellow Lady's Slipper, Green Dragon, Giant St. John's Wort, Autumn Coral Root and state-listed lepidoptera species.

Based on the information provided and the information contained in our database, the Division finds that a portion of this project, as currently proposed, **must be conditioned** in order to avoid a prohibited Take of Eastern Box Turtle, Eastern Hognose Snake, Jefferson Salamander, and Wood Turtle (321 CMR 10.18(2)(a)). To avoid a prohibited Take of state-listed species, the following conditions must be met:

1. Timing Restrictions:
    a. As proposed, civil construction in the Montague Plains Wildlife Management Area will occur between Nov. 1 2020 and March 31 2021.
    b. As proposed, civil construction associated with the replacement of Structure 36152, 36153 and 36161 will commence on or after Oct. 1 2020. Civil construction at this location must be complete on or before March 31 2021.
    c. Work within areas mapped for Jefferson Salamander must be completed prior to February 15, 2021.

2. Protection Plans: The rare species protection plans submitted with the filing must be implemented as proposed. If the avoidance measures cannot be accomplished as described Eversource must contact the Division for further guidance.

3. Compliance Report: Within thirty (30) days of the completion of work or as otherwise approved by the Division, the Applicant shall submit written confirmation to the Division documenting compliance with the conditions above.

Provided the above-noted conditions are fully implemented and there are no changes to the project plans, this project will not result in a Take of state-listed species. We note that all work is subject to the anti-segmentation provisions (321 CMR 10.16) of the MESA. This determination is a final decision of the Division of Fisheries and 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 Lauren Glorioso, Endangered Species Review Biologist, at lauren.glorioso@mass.gov or 508-389-6361.

Sincerely,

Everose Schlüter

Everose Schlüter, Ph.D.
Assistant Director

cc: Simon Hildt, Eversource Energy
Steve Riberdy, GZA Environmental, Inc.
Ashfield Conservation Commission
Plainfield Conservation Commission
Conway Conservation Commission

Attachment 4

Line 312 (Phase B) MESA Determination letter (dated 11/4/2021)

MASSWILDLIFE

DIVISION OF
FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581
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MASS.GOV/MASSWILDLIFE

November 4, 2021

David Askew
Eversource Energy
107 Selden Street
Berlin CT 06037

RE: Applicant: David Askew, Eversource
Project Location: Hinsdale to Montague Transmission Right-of-Way (ROW)
Project Description: Line 312 Structure Replacement: Replace 19 poor condition structures, improve work pads and access road upgrades (Phase B)
NHESP File No.: 21-39898

Dear Mr. Askew:

The Natural Heritage & Endangered Species Program of the Massachusetts Division of Fisheries & Wildlife (the "Division") received the MESA Project Review Checklist, comprehensive project summary, site plans entitled "BERKSHIRE TO MONTAGUE UPGRADE PROJECT AND LINE 312 STRUCTURE REPLACEMENT PROJECT (2020 & 2021)" (dated 7/28/2021, prepared by Epsilon Associates, Inc.; the "Plans") and other required materials for review pursuant to the Massachusetts Endangered Species Act (MESA) (MGL c.131A) and its implementing regulations (321 CMR 10.00).

The MESA is administered by the Division and prohibits the Take of state-listed species. The Take of state-listed species is defined as "in reference to animals…harm…kill…disrupt the nesting, breeding, feeding or migratory activity…and in reference to plants…collect, pick, kill, transplant, cut or process…Disruption of nesting, breeding, feeding, or migratory activity may result from, but is not limited to, the modification, degradation, or destruction of Habitat" of state-listed species (321 CMR 10.02).

The Division has determined that this Project, as currently proposed, will occur **within** the actual habitat of several state-listed species, including but not limited to, those listed below. State-listed species and their habitats are protected in accordance with the MESA.

Scientific name	Common Name	Taxonomic Group	State Status
Celastrus scandens	American Bittersweet	Plant	Threatened
Ambystoma jeffersonianum	Jefferson Salamander	Amphibian	Special Concern
Glyptemys insculpta	Wood Turtle	Reptile	Special Concern
Pooecetes gramineus	Vesper Sparrow	Bird	Special Concern

In total, Eversource has proposed to conduct extensive structure replacements on Line 312 to address maintenance requirements. Notwithstanding the anti-segmentation provisions of the MESA (321 CMR 10.16), the Division elected to allow a portion of the work on this Right of Way (ROW) to proceed in advance of the current filing. In particular, the recently completed Line 312 Structure replacement project (NHESP 20-39441, determination letter 7/29/2020; 2019-2020, "Phase A"). The current filing seeks permitting for work associated with 19 additional structure replacements on Line 312 ("Phase B" structure replacement work in 2021-2022).

The Plans graphically show habitat impacts for Phase A, Phase B and future Phase C (Line 1231/1242 Berkshire to Montague Upgrade project in 2022-2023). The Division will consider the impacts cumulatively for all phases during the review of Phase C but will allow Phase B work to proceed.

Based on the information provided and the information contained in our database, the Division finds that the Line 312 structure replacements (Phase B), as currently proposed, **must be conditioned** in order to avoid a prohibited Take of state-listed species (321 CMR 10.18(2)(a)). To avoid a prohibited Take of state-listed species during Phase B work, the following conditions must be met:

1. **Wood Turtle (*Glyptemys insculpta*, Special Concern)**: No later than 31 December 2021, the Applicant shall submit a Wood Turtle Protection Plan (WTPP) for Division review and approval. Said WTPP must include all work occurring within the ongoing Wood Turtle study area and all mapped Priority Habitat for Wood Turtle. Said WTPP shall be implemented during the turtle active-season (1 April – 31 October) and must be developed and implemented by a Division-approved qualified biologist. The WTPP shall incorporate:
    a. Avoidance methods using the tracking and data of the ongoing radio-telemetric study;
    b. Turtle sweeps and oversight by designated, qualified, Reptile Biologist(s);
    c. Exclusion fencing;
    d. Contractor education;
    e. A post-construction report must be submitted prior to 31 December 2022, and
    f. Any additional measures proposed by the Division-approved biologist.

2. **Restoration and Habitat Enhancement**: No later than 31 December 2021, the Applicant shall submit a restoration and habitat enhancement plan for Division review and approval. Said plan shall include specifications for restoration of temporary impact areas, as shown on the Plans. Additionally, turtle nesting habitat enhancement areas will be specified.

3. **American Bittersweet (*Celastrus scandens*, Threatened)**: No later than December 31, 2021, the Applicant shall submit a Rare Plant Protection Plan for Division review and approval. Said plan shall include avoidance measures, symbolic fencing and oversight of work adjacent to populations of *C. scandens*, including mitigation locations associated with NHESP 17-36786/ CMP 020-359.DFW.

4. **Vesper Sparrow (*Pooecetes gramineus*, Threatened)**: As proposed, work in mapped habitat of Vesper Sparrow, as shown on the Plans, shall be avoided between 7 May – 10 June of any year.

5. **Best Management Practices:** Eversource must implement all proposed Best Management Practices for avoidance and minimization of impacts (i.e. BMPS for erosion controls, placement and removal of temporary timber matting, and temporary gravel workpad at Structure 36175) as described in the project filing.

Provided the above-noted conditions are fully implemented and there are no changes to the project plans, this Project will not result in a Take of state-listed species. We note that all work is subject to the anti-segmentation provisions (321 CMR 10.16) of the MESA. This determination is a final decision of the Division of Fisheries and 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.

The Division is aware that Eversource may propose further upgrades within the Hinsdale to Montague ROW, which contains Lines 312 and 1231/1242, including Phase C work. Eversource is aware from consultation with the Division that impacts resulting from future upgrades on the Hinsdale to Montague ROW, including Lines 312 and 1231/1242, including Phase C work, will be reviewed cumulatively with the impacts from this Project and future work may be subject to compliance with 321 CMR 10.23. Furthermore, 321 CMR 10.16 provides that projects shall not be segmented or phased to evade or defer the review requirements.

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 Lauren Glorioso, Endangered Species Review Biologist, at 508-389-6361 or lauren.glorioso@mass.gov.

Sincerely,

Everose Schlüter, Ph.D.
Assistant Director

cc: Simon Hildt, Eversource
Michelle Ford, Eversource
Matt Kelly, Epsilon Associates
Scott Smyers, Oxbow Associates

Attachment 5

Plant Protection Plan

OXBOW ASSOCIATES, INC.

Wetlands Delineation & Permitting Wildlife Studies Herpetology Vernal Pool Ecology Botany Aerial Imagery

Rare Plant Protection Plan

Eversource – Lines 1231-1242 Reconductor & Structure Replacement Project
Hinsdale to Montague
(NHESP File # 21-39898)



September 26, 2022

Prepared for:

NSTAR Electric Company dba Eversource
107 Selden Street
Berlin CT 06037

Prepared by:

Oxbow Associates, Inc.
P.O. Box 971
Acton, MA 01720

Introduction

In accordance with NHESP File # 21-39898, Oxbow Associates, Inc. (OA) has prepared this Rare Plant Protection Plan (RPPP) to avoid incidental mortality (prohibited "Take"; 321 CMR 10.02 under the MA Endangered Species Act (MESA)), to eight state-listed plant species (Table 1) during construction activities associated with the Lines 1231 and 1242 Reconductor and Structure Replacement Project (the Project). Rare plant surveys were conducted by OA in 2021, with follow-up surveys in 2022, throughout the entirety of the right-of-way (ROW) within mapped Priority Habitats (PH).

Table 1. *State-listed plant species and associated Focal Areas as detailed in the 2022 "Habitat Assessment for MESA Checklist for the Lines 1231 and 1242 Reconductor and Structure Replacement Project".*

Species	Common Name	Focal Areas
Carex baileyi	Bailey's sedge	Area 1: Hinsdale (PH 1522), Map Page 2
Equisetum scirpoides	Dwarf scouring rush	Area 2: Windsor (PH 1633), Map Pages 16 – 18
Geum fragarioides	Barren strawberry	Area 2: Windsor (PH 1633), Map Page 14
Carex hitchkockiana	Hitchcock's sedge	Area 8: Ashfield (PH 1663), Map Pages 55 – 56
Celastrus scandens	American bittersweet	Area 8: Ashfield (PH 1663), Map Pages 53 - 58 Area 12: Conway – Shelburne: (PH 1741), Map Pages 78 - 81
Hypericum ascyron	Giant St-John's wort	Area 9: Ashfield (PH 1687), Map Page 64
Adliumia fungosa	Climbing fumatory	Area 12: Conway – Shelburne (PH 1741), Map Page 78
Clematis occidentalis	Purple clematis	Area 14: Greenfield - Montague: (PH 2084/EH 1319), Map Pages 98 - 99

Site Loci and Proposed Avoidance Methods

As shown in the project mapping (Attachment A), there are six areas covered under the RPPP. Rare plant species observed within these areas and the proposed method to avoid impacts are presented in the following text.

Area 1:

Species	Proposed Avoidance Method
Carex baileyi	Contractor Education; Contractor Site Review; Fencing

PH 1522 is associated with Cady Brook (Map Pages 1 – 2). OA delineated one population of *Carex baileyi* within the ROW in Area 1 on either side of Cady Brook (Attachment A: Map Page 2). The proposed limit of work (LOW) avoids direct impacts to individuals of *C. baileyi* in Area 1.

Construction access will be gained from New Windsor Road in Hinsdale. Work activities within PH 1522 that have the potential to alter habitats of state-listed species will include the installation of a permanent bridge spanning Cady Brook and grading (using only hand tools) to re-establish a historic, intermittent stream channel.

Full avoidance of *C. baileyi* is anticipated. Unintended impacts to *C. baileyi* in Area 1 will be avoided through the implementation of Contractor Education, Contractor Site Review, and the installation of Fencing between the subject population and the proposed LOW.

Area 2:

Species	Proposed Avoidance Method
Geum fragarioides	Contractor Education; Contractor Site Review; Fencing
Equisetum scirpoides	Contractor Education; Contractor Site Review

PH 1633/EH 1108 is associated with Westfield Brook. OA delineated two subpopulations of *Geum fragarioides* on the southern edge of the ROW (Attachment A: Map Page 17), and one population of *Equisetum scirpoides* approximately 55 feet south of the ROW on a steep east facing slope adjacent Westfield Brook (Attachment A: Map Page 17). The proposed LOW avoids direct impacts to individuals of *G. fragarioides* and *E. scirpoides* in Area 2.

Construction access will be gained from Old Route 9 and Berkshire Trail/Route 9 (Map Pages 16 - 18). Work activities within PH1633 that have the potential to alter habitats of state-listed rare species will include the construction of upland work pads to facilitate replacement of structures 31193-31195, modifications of access roads, tree removals, and mowing.

Full avoidance of *G. fragarioides and E. scirpoides* is anticipated. Unintended impacts to *G. fragarioides* and *E. scirpoides* in Area 2 will be avoided through the implementation of Contractor Education, a Contractor Site Review, and the installation of avoidance fencing between the sub-populations of *G. fragarioides* and the proposed LOW.

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Area 8:

Species	Proposed Avoidance Method
Carex hitchcockiana	Contractor Education; Contractor Site Review; Fencing
Celastrus scandens	Contractor Education; Contractor Site Review; Fencing

Area 8 is located between structures 31091 and 31104 (Map Pages 53 - 58). The eastern section of Area 8 is split into 4 subsections/polygons (PH 1653, 1663, 1656 and 1659) separated from one another by Hawley Road, Smith Road, and Ashfield Mountain Road (Map Pages 53 - 58). State-listed plants are known to occur within the eastern section of Area 8. OA delineated two populations of *Celastrus scandens* along the ROW between Hawley and Smith Roads (Attachment A: Map Pages 55 and 56). *C. hitchcockiana* was observed between structures 31097 and 31096 (Attachment A: Map Page 56). The proposed LOW avoids direct impacts to *C. scandens* and *C. hitchcockiana* in Area 8.

In general, work activities within Area 8 that have the potential to alter habitats of state-listed plants include the construction of permanent upland work pads, the installation of temporary construction mats for work pads and ROW access, ROW access improvements, vegetation mowing within the existing maintained ROW and construction vehicle traffic.

Full avoidance of *C. hitchcockiana and C. scandens* is anticipated. Unintended impacts to *C. scandens* and *C. hitchcockiana* in Area 8 will be avoided through the implementation of Contractor Education, Contractor Site Review, and the installation of Fencing between the sub-populations of *C. scandens* and the proposed LOW. Since the population of *C. hitchcockiana* is buffered by *C. scandens*, additional fencing will not be necessary.

Area 9:

Species	Proposed Avoidance Method
Hypericum ascyron	Contractor Education

Area 9 is located within PH 1687/EH 1139 and encompasses Bear River (Attachment A: Map Pages 62 - 68). OA delineated one population of *Hypericum ascyron* growing immediately east of Bear Brook (Map Page 64). The proposed LOW avoids direct impacts to *H. ascyron* in Area 9.

Area 9 is accessed from the following locations:

- Bellus Road (structure 31079);
- Beldingville Road (structures 31076-31078);
- South Bear River Road via Beldingville Road (structures 31071-31075); and
- Pfersick Road (for structures 31065 – 31070).

Full avoidance of *H. ascyron* is anticipated. Unintended impacts to *H. ascyron* in Area 9 are unlikely due to the location of the population within a wetland system which will deter vehicle and foot traffic. Avoidance measures, including Contractor Education, will be implemented to further reduce the likelihood of unintended impacts to the population.

Area 12:

Species	Proposed Avoidance Method
Celastrus scandens	Contractor Education; Contractor Site Review; Fencing
Adlumia fungosa	Contractor Education; Contractor Site Review; Fencing

This section of PH 1741 includes structures 31040 through 31035 (Map Pages 78 - 81) and includes ±17.8 acres. Surveys conducted by OA in 2021 and VHB in 2020 identified multiple locations within the ROW where *C. scandens* is present. These sites are part of ongoing mitigation efforts by Eversource and National Grid. Mitigation plantings of *C. scandens* occurred in the Fall of 2021 within this section of ROW. A single occurrence of *Adlumia fungosa* was identified in 2022 on the east facing slope east of structure 36126. The proposed LOW avoids direct impacts to *C. scandens* and *A. fungosa* in Area 12.

The work areas will be accessed from Elmer Road to the west and Bardwell's Ferry Road to the east. Work activities proposed to occur within Area 12 with the potential to impact state-listed plant species include temporary construction mat work pads, access road improvements and construction, temporary matted access, and vegetation mowing beneath Lines 1231 and 1242

Full avoidance of *C. scandens and A. fungosa* is anticipated. Unintended impacts to *C. scandens* and *A. fungosa* in Area 12 will be avoided through the implementation of Contractor Education, Contractor Site Review, and the installation of Fencing between these populations and the proposed LOW.

Area 14:

Species	Proposed Avoidance Method
Clematis occidentalis	Contractor education

The Greenfield - Montague section of PH 2084/EH 1319 encompasses mapped habitat located east of Hope Street in Greenfield and the Montague Substation located immediately east of the Connecticut River (Map Pages 98 – 102) and encompasses ±10.49 acres and includes three subsections: West, Central and East. Only C. occidentalis was observed adjacent the LOW to the west of STR 12011, growing on a steep slope. The proposed LOW avoids direct impacts to C. occidentalis in Area 14.

The western subsection (structures 12011 - 12009; Map Pages 98 - 99) will be accessed from Mountain Road, from the east. Work activities within Area 14 (PH 2084/EH 1319)

will include the replacement of existing Line 1242 shield wire with OPGW. There are no proposed structure replacements along this section of ROW. Temporary construction mats will be installed for access purposes immediately west of Mountain Road. Eversource will utilize existing access roads and gravel pads to the extent practicable. Vegetation mowing within the ROW will occur as necessary for equipment access.

Full avoidance of *C. occidentalis* is anticipated. Unintended impacts to *C. occidentalis* in Area 14 are unlikely to the location of the population on a near vertical slope which will prohibit vehicle and foot traffic. Avoidance measures, including Contractor Education, will be implemented to further reduce the likelihood for unintended impacts to the population.

Proposed Rare Plant Protection Measures

To ensure the protection of the aforementioned state-listed plant species during construction, the following measures are proposed:

1(A). Contractor Education session (CE)

Prior to the beginning of the work, contractor(s), will be provided a brief introduction covering the following:

a. State-listed plant species identifying characteristics, habitat, and regulatory compliance.

b. Location of rare plant populations within the ROW.

c. Demarcation of rare plant populations and areas to be avoided throughout the ROW using flagging.

1(B). Contractor Site Review

Prior to the beginning of work, the project botanist will conduct a Contractor Site Review and review of Areas 1, 2, 8, and 12, with project managers and construction supervisors. Work within these areas will require pre-work planning to ensure avoidance of the rare plant populations, including the placement of construction matting and tree removals.

2. Installation of Barrier Fence

Prior to the commencement of work, fencing shall be installed on the bordering edges of access routes and work pads adjacent to state-listed plant populations in Areas 1, 2, 8, and 12. The barrier will consist of standard orange mesh construction fencing; wooden or metal stakes shall be installed for support (see example photo below). The fence shall be inspected and approved by the Project Botanist and removed post-construction.

The fence shall be inspected daily and maintained by the contractor for the duration of the Project and repairs to fencing shall be made promptly. Two visits by the Project Botanist shall be conducted during construction at the beginning of the project following the installation of orange construction fencing, and at the completion of the project to document that no impacts to the population have occurred.



Photo 1. Example of rare plant avoidance fencing

3. Monitoring and Reporting

The Project Botanist will assess each population of state-listed plant species following the project's completion in a given Area, as soon as field conditions are appropriate. This assessment shall include, at a minimum, a population count, reproductive status, and the presence of threats to the populations, to be submitted to NHESP via Heritage Hub. A final summary report shall be submitted to Eversource for provision to NHESP within 30 days of completion of rare plant monitoring efforts.

Attachment A

Lines 1231 and 1242 Reconductor and Structure Replacement Project
Environmental Resources Map
Pages

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AREA 1 (Map Pages 1-2)

Bailey’s sedge (*Carex baileyi*)

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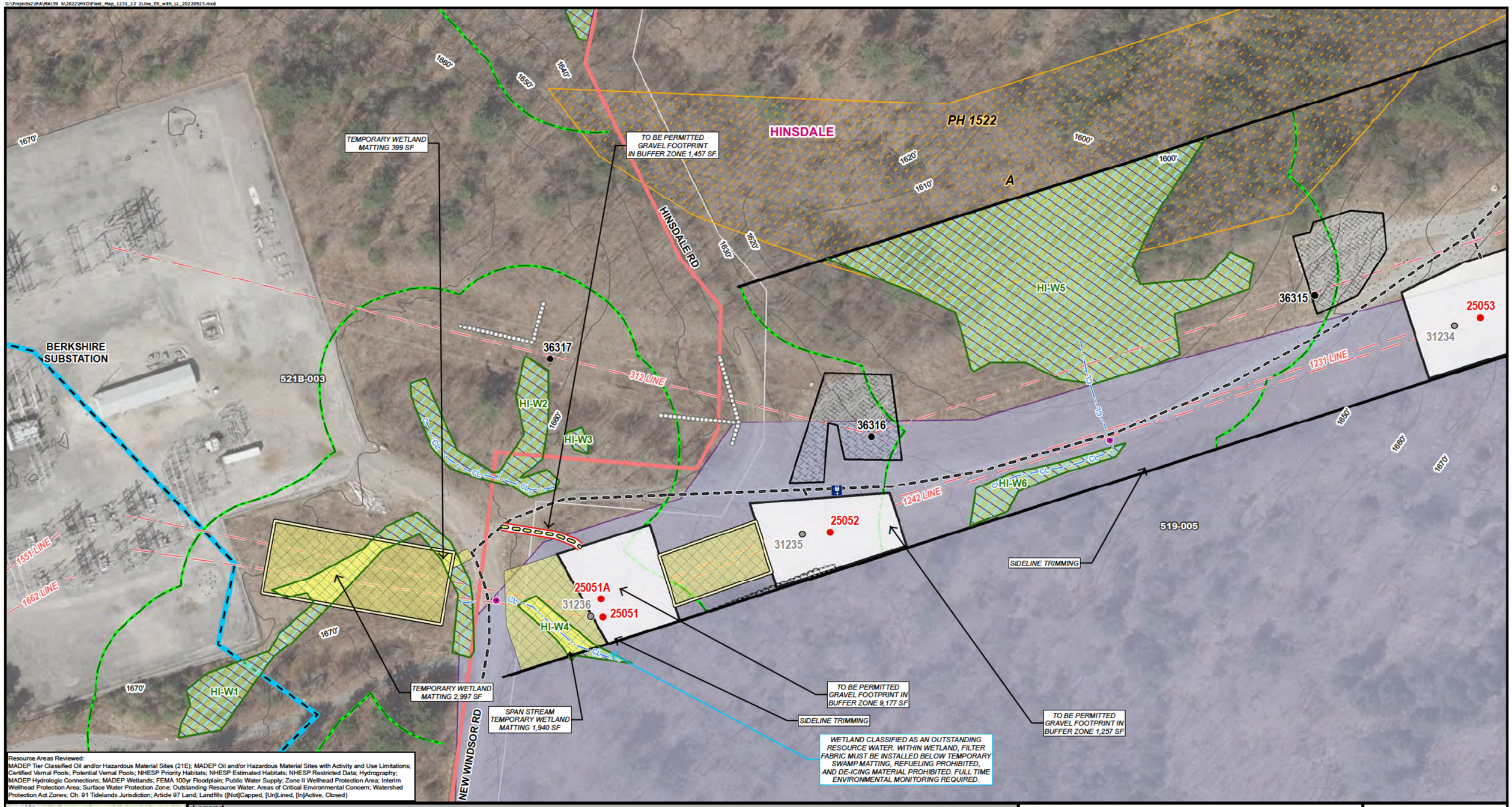
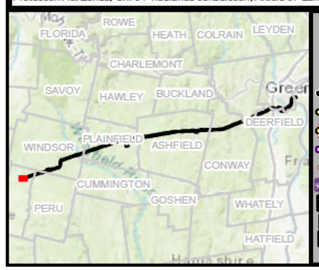


Resource Areas Reviewed:
MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Hydrography; 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

- Proposed Structure
- Existing Structure
- Existing Structure to be Removed
- Existing Access
- Proposed Access
- Access Road to be Improved
- Alternate Access
- Hiking Trail
- ATV Access
- Stone Work Pad
- Temporary Construction Matting
- Existing Gravel
- Pull Pad
- Permanent/Temporary Grading
- Proposed Permanent Bridge
- Delineated Perennial Watercourse (MAHW/OHW)
- Delineated Perennial Stream Centerline
- Delineated Intermittent Watercourse
- Delineated Intermittent Stream Centerline
- Delineated Bank
- Ditch
- Non-Delineated Intermittent Stream Centerline
- Non-Delineated Perennial Watercourse
- Open Water
- Delineated Wetland Boundary
- Field Delineated Wetland
- 100ft Buffer (BVW and/or Bank)
- 200ft Riverfront Area
- Compensatory Flood Storage Area
- Riverfront Mitigation Area
- Approximate Limits of Habitat Enhancement
- Approx FEMA 100yr Floodplain
- Outstanding Resource Water
- Areas of Critical Environmental Concern
- Surface Water Protection Area
- Certified Vernal Pools
- Field Delineated Vernal Pool
- Approximate Potential Vernal Pool
- OMP NHESP Habitat
- Delineated Rare Plant Population
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- Culvert
- Gate
- 10ft Contours
- 2ft Contours
- Rare Species
- A Rare Species Code/ Priority Habitat ID
- W-1 Wetland ID

N

1 inch = 100 feet

0 50 100

Feet

*FOOTPRINTS OF EXISTING WORK PADS WERE OBTAINED IN JULY 2020 AND SHOULD BE FIELD VERIFIED FOR ACCURACY

LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Hinsdale, MA

Date: September 23, 2022

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

EVERSOURCE Epsilon

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G:\Projects2\MA\MA\5946\2022\MXD\Field_Map_1231_1242Line_ER_with_LL_20220923.mxd

PH 1522

HINSDALE

1610'

1620'

1630'

1640'

1650'

1660'

1670'

1680'

1690'

1700'

1710'

1600'

PROPOSED COMPENSATORY FLOOD STORAGE AREA 2,220 SF

TEMPORARY 9,650 SF CONSTRUCTION MAT STAGING AREA FOR BRIDGE INSTALLATION. (TEMPORARY IMPACTS - TOTAL FOR ALL THREE MATTED STAGING AREAS: TEMPORARY RIVERFRONT AREA IMPACTS 16,635 SF, TEMPORARY BUFFER ZONE IMPACTS 15,408 SF, TEMPORARY BLSF IMPACTS 827 SF)

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 888 SF, RIVERFRONT AREA 888 SF, AND BLSF 978 SF. NOTE THAT TEMPORARY AND PERMANENT IMPACTS DO NOT INCLUDE PREVIOUSLY IMPACTED AREAS (I.E. EXISTING GRAVEL PATH), WITH THE EXCEPTION OF BLSF IMPACTS.

APPROXIMATE HISTORIC INTERMITTENT STREAM CHANNEL LOCATION

PROPOSED HAND GRADING TO REESTABLISH STREAM CHANNEL.

SPAN STREAM WITH MATS

ACCESS FROM NEW WINDSOR RD

PROPOSED PERMANENT BRIDGE 40' SPAN BY 20' WIDE CROSSING

36314

36313

312 LINE

1242 LINE

1231 LINE

25053

31234

25054

31233

519-005

25055A

31232

25055

HI-W7

HI-W8

HI-W9

HI-W10

HI-W11

HI-W12

HI-W13

Cady Brook

BA

A

SIDELINE TRIMMING

TEMPORARY 1,120 SF CONSTRUCTION MAT STAGING AREA FOR BRIDGE INSTALLATION.

SPAN STREAM. TEMPORARY WETLAND MATTING 1,024 SF

200' RIVERFRONT TREE REMOVAL 64 SF

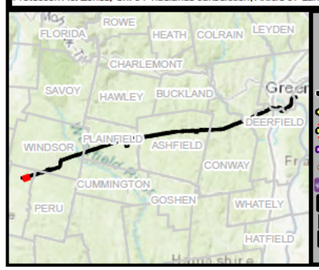
TEMPORARY 2,800 SF CONSTRUCTION MAT STAGING AREA FOR BRIDGE INSTALLATION

100' BUFFER TREE REMOVAL 64 SF

100' BUFFER TREE REMOVAL 656 SF

SPAN STREAM. EXISTING HARD BOTTOM CROSSING.

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

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Hinsdale, MA

Page 2 of 102

Date: September 23, 2022

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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Epsilon Associates, Inc.

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AREA 2 (Map Pages 16-18)

Barren strawberry (*Geum fragarioides*)

Dwarf scouring rush (*Equisetum scirpoides*)

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WINDSOR

WI-W34

WI-W35

WI-W36

WI-W37

WI-W38

WI-W39

WI-W40

WI-W30

WI-W31

WI-W32

WI-W33

WI-W29

519-028

519-029

519-031

519-032

36276

36275

36277

25090A

25090

31197

25089

31198

25091A

25091

31196

PH 1633

31195

36274

1790'

1800'

1780'

1770'

1760'

1750'

1740'

1730'

1720'

1710'

1700'

1690'

1680'

1670'

1660'

1650'

200' RIVERFRONT TREE REMOVAL 1,227 SF

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 3,227 SF

TEMPORARY WETLAND MATTING 134 SF

312 LINE

1242 LINE

1231 LINE

200' RIVERFRONT TREE REMOVAL 122 SF

200' RIVERFRONT TREE REMOVAL 353 SF

200' RIVERFRONT TREE REMOVAL 333 SF

200' RIVERFRONT TREE REMOVAL 7,888 SF

100' BUFFER TREE REMOVAL 1,011 SF

SIDELINE TRIMMING

TEMPORARY WETLAND MATTING 4,497 SF

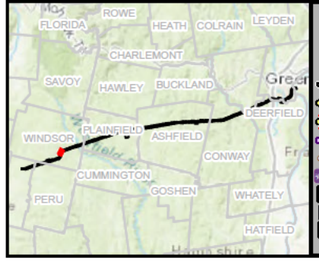
TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 3,244 SF

100' BUFFER TREE REMOVAL 588 SF

100' BUFFER TREE REMOVAL 125 SF

OLD RTE 9

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)



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0 50 100
Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Windsor, MA

Date: September 23, 2022

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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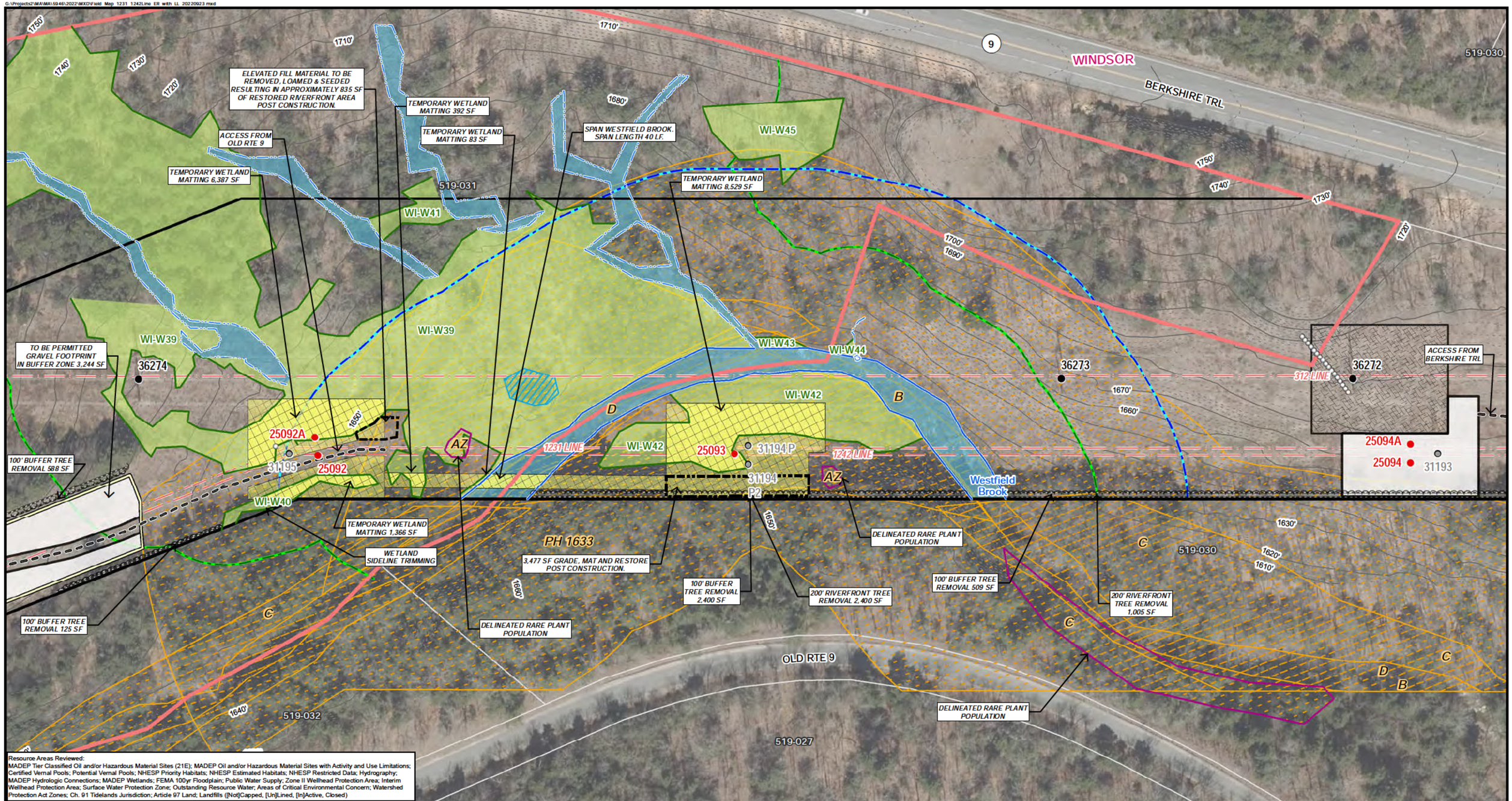

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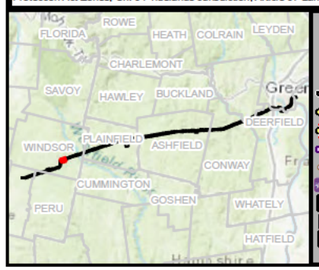

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- 10ft Contours
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- A — Rare Species
- W-1 — Rare Species Code/ Priority Habitat ID / Wetland ID

N

1 inch = 100 feet
0 50 100
Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Windsor, MA
Page 17 of 102
Date: September 23, 2022

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Epsilon ASSOCIATES INC.

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AREA 8 (Map Pages 53-58)

American bittersweet (*Celastrus scandens*)

Hitchcock's sedge (*Carex hitchcockiana*)

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ASHFIELD

519-167

519-168

519-169

BEAR SWAMP RD

Smith Brook

SPAN STREAM

AS-W28

AS-W29

AS-W30

AS-W31

AS-W32

AS-W33

AS-W34

36184

36183

36182

25176

31105

25177

31104

25178A

25178

PH 1690

PH 1653

1231 LINE

1242 LINE

312 LINE

TO BE PERMITTED TEMPORARY GRAVEL FOOTPRINT IN BUFFER ZONE 7,695 SF AND RIVERFRONT AREA 8,194 SF. GRAVEL PAD TO BE RESTORED WITH LOAM AND SEED POST CONSTRUCTION.

WETLAND CLASSIFIED AS AN OUTSTANDING RESOURCE WATER. WITHIN WETLAND, FILTER FABRIC MUST BE INSTALLED BELOW TEMPORARY SWAMP MATTING, REFUELING PROHIBITED, AND DE-ICING MATERIAL PROHIBITED. FULL TIME ENVIRONMENTAL MONITORING REQUIRED.

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 8,131 SF

TEMPORARY WETLAND MATTING 127 SF

TEMPORARY WETLAND MATTING 1,260 SF

TEMPORARY WETLAND MATTING 1,894 SF

200' RIVERFRONT TREE REMOVAL 60 SF

100' BUFFER TREE REMOVAL 105 SF

WETLAND TREE REMOVAL 33 SF

100' BUFFER TREE REMOVAL 112 SF

100' BUFFER TREE REMOVAL 664 SF

WETLAND TREE REMOVAL 203 SF

100' BUFFER TREE REMOVAL 1,206 SF

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 2,801 SF

WETLAND TREE REMOVAL 495 SF

100' BUFFER TREE REMOVAL 602 SF

100' BUFFER TREE REMOVAL 408 SF

200' RIVERFRONT TREE REMOVAL 2,740 SF

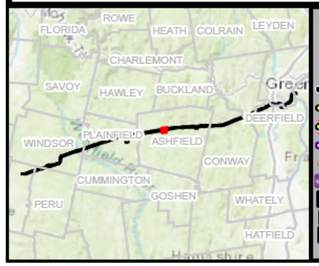
100' BUFFER TREE REMOVAL 605 SF

SIDELINE TRIMMING

WETLAND CLASSIFIED AS AN OUTSTANDING RESOURCE WATER. WITHIN WETLAND, FILTER FABRIC MUST BE INSTALLED BELOW TEMPORARY SWAMP MATTING, REFUELING PROHIBITED, AND DE-ICING MATERIAL PROHIBITED. FULL TIME ENVIRONMENTAL MONITORING REQUIRED.

ALL AREAS ON THIS MAP PAGE ARE SUBJECT TO THE RARE SPECIES PROTECTION PLAN FOR JEFFERSON SALAMANDER.

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)



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N

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0 50 100

Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: September 23, 2022

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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TEMPORARY WETLAND MATTING 1,260 SF

SPAN STREAM TEMPORARY WETLAND MATTING 9,685 SF

WETLAND CLASSIFIED AS AN OUTSTANDING RESOURCE WATER. WITHIN WETLAND, FILTER FABRIC MUST BE INSTALLED BELOW TEMPORARY SWAMP MATTING, REFUELING PROHIBITED, AND DE-ICING MATERIAL PROHIBITED. FULL TIME ENVIRONMENTAL MONITORING REQUIRED.

ASHFIELD

519-170

TEMPORARY WETLAND MATTING 8,373 SF

1620' 1630' 1640' 1650' 1660' 1670' 1680' 1690' 1600' 1590' 1580' 1570' 1560' 1550' 1540' 1530' 1520' 1510' 1500' 1490' 1480'

AS-W33 AS-W34 AS-W35 AS-W36 AS-W37 AS-W38

K

36181 36180 36179

312 LINE 1242 LINE 1231 LINE

25178A 25178 31103 31102 25179 31101 P 25180 31101 P2

PH 1653

519-171 519-169

WETLAND TREE REMOVAL 203 SF

100' BUFFER TREE REMOVAL 1,206 SF

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 2,801 SF

ACCESS FROM BEAR SWAMP RD

100' BUFFER TREE REMOVAL 968 SF

TEMPORARY WETLAND MATTING 1,421 SF

SIDELINE TRIMMING

SIDELINE TRIMMING

SIDELINE TRIMMING

100' BUFFER TREE REMOVAL 401 SF

SIDELINE TRIMMING 519-172

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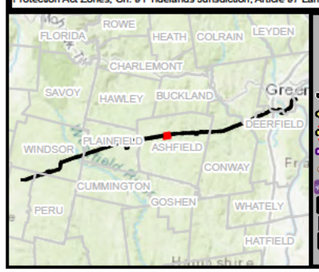

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Feet

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Environmental Resources Map

Ashfield, MA

Date: September 23, 2022

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

EVERSOURCE Epsilon

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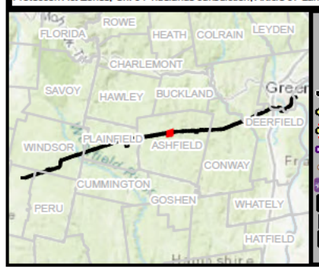
G:\Projects2\MA\MA\59461\2022\MXD\Field_Map_1231_1242Line_ER_with_LL_20220923.mxd

519-178
AS-W39
1460'
1450'
PROPOSED PERMANENT BRIDGE 25' SPAN BY 16' WIDE CROSSING. STREAM TO BE TEMPORARILY SPANNED.
TO BE PERMITTED GRAVEL FOOTPRINT IN RIVERFRONT AREA 603 SF AND BUFFER ZONE 603 SF. NOTE THAT TEMPORARY AND PERMANENT IMPACT CALCULATIONS DO NOT INCLUDE PREVIOUSLY IMPACTED AREAS (I.E. EXISTING GRAVEL PATH).
TO BE PERMITTED GRAVEL FOOTPRINT IN RIVERFRONT 386 SF AND BUFFER ZONE 386 SF. NOTE THAT TEMPORARY AND PERMANENT IMPACT CALCULATIONS DO NOT INCLUDE PREVIOUSLY IMPACTED AREAS (I.E. EXISTING GRAVEL PATH).
WETLAND TREE REMOVAL 277 SF
PROPOSED PERMANENT BRIDGE 40' SPAN BY 16' WIDE CROSSING STREAM TO BE TEMPORARILY SPANNED.
ASHFIELD
TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 220 SF AND RIVERFRONT AREA 220 SF
519-179
100' BUFFER TREE REMOVAL 85 SF
100' BUFFER TREE REMOVAL 112 SF
200' RIVERFRONT TREE REMOVAL 112 SF
200' RIVERFRONT TREE REMOVAL 362 SF
519-169
225 SF OF EXISTING ACCESS IN BUFFER ZONE AND RFA TO BE RESTORED
WETLAND SHADING IMPACT 289 SF
DELINEATED RARE PLANT POPULATION
GRADE, MAT AND RESTORE POST CONSTRUCTION 4,174 SF IN 100' BUFFER
AS-W40
South River
TEMPORARY WETLAND MATTING 1,803 SF
519-180
PH 1653
AS-W40
519-177
AS-W41
K
PH 1663
312 LINE
36178
36177
M
25181A
31100 P
25181
519-171
31100 P2
AS-W38
31099
25182
1231 LINE
31098
25183
1242 LINE
31097
AS-W41
TEMPORARY 512 SF CONSTRUCTION MAT STAGING AREA FOR BRIDGE INSTALLATION. TEMPORARY 200' RFA IMPACTS 512 SF AND TEMPORARY 100' BUFFER ZONE IMPACTS 512 SF
SPAN STREAM TEMPORARY WETLAND MATTING 3,610 SF
100' BUFFER TREE REMOVAL 1,316 SF
GRADE, GRAVEL, RESTORE WORK PAD POST CONSTRUCTION. EXISTING ACCESS TO REMAIN.
200' RIVERFRONT TREE REMOVAL 3,330 SF
100' BUFFER TREE REMOVAL 139 SF
HAWLEY RD
519-176
519-181
TEMPORARY WETLAND MATTING 198 SF
519-173
WETLAND TREE REMOVAL 1,499 SF
200' RIVERFRONT TREE REMOVAL 56 SF
100' BUFFER TREE REMOVAL 16 SF
SIDELINE TRIMMING
519-172
TEMPORARY 3,335 SF CONSTRUCTION MAT STAGING AREA FOR BRIDGE INSTALLATION. TEMPORARY IMPACTS (TOTAL FOR ALL MATTED STAGING AREAS ASSOCIATED WITH THIS BRIDGE): 200' RFA 3,401 SF AND 100' BUFFER ZONE 3,401 SF.
519-174
519-175

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

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- Alternate Access
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- Delineated Perennial Stream Centerline
- Delineated Intermittent Watercourse
- Delineated Intermittent Stream Centerline
- Delineated Bank
- Ditch
- Non-Delineated Intermittent Stream Centerline
- Non-Delineated Perennial Watercourse
- Open Water
- Delineated Wetland Boundary
- Field Delineated Wetland
- 100ft Buffer (BVW and/or Bank)
- 200ft Riverfront Area
- Compensatory Flood Storage Area
- Riverfront Mitigation Area
- Approximate Limits of Habitat Enhancement
- Approx FEMA 100yr Floodplain
- Outstanding Resource Water
- Areas of Critical Environmental Concern
- Surface Water Protection Area
- Certified Vernal Pools
- Field Delineated Vernal Pool
- Approximate Potential Vernal Pool
- OMP NHESP Habitat
- Delineated Rare Plant Population
- Proposed Rare Planting Area
- Eversource Owned Property
- Existing Right-of-Way
- Agricultural Preservation Restriction
- Parcel Boundary
- State-Owned Property
- Municipal Boundary
- Existing Tree Line
- Proposed Tree Removal
- Fence
- Guardrail
- Stonewall
- Headwall
- Culvert
- Gate
- 10ft Contours
- 2ft Contours
- Rare Species
- A Rare Species Code/ Priority Habitat ID
- W-1 Wetland ID

N

1 inch = 100 feet
0 50 100
Feet

*FOOTPRINTS OF EXISTING WORK PADS WERE OBTAINED IN JULY, 2020 AND SHOULD BE FIELD VERIFIED FOR ACCURACY

LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: September 23, 2022

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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ASHFIELD

519-179

519-182

519-187

519-180

519-183

519-186

519-188

519-189

519-185

519-184

519-181

DELINEATED RARE PLANT POPULATION

DELINEATED RARE PLANT POPULATION

DELINEATED RARE PLANT POPULATION

M

K

36177

36176

36175

312 LINE

1231 LINE

1242 LINE

AS-W42

AS-W43

AS-W44

31097

25184

31096

25185

31095

25186

SMITH RD

PH 1656

PH 1663

100' BUFFER TREE REMOVAL 131 SF

100' BUFFER TREE REMOVAL 136 SF

100' BUFFER TREE REMOVAL 565 SF

TO BE PERMITTED TEMPORARY GRAVEL FOOTPRINT IN BUFFER ZONE 7,738 SF. TO BE RESTORED POST CONSTRUCTION.

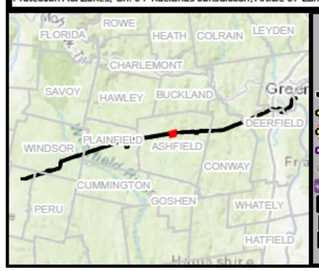
TO BE PERMITTED PERMANENT GRAVEL FOOTPRINT IN BUFFER ZONE 2,632 SF.

GRADE, GRAVEL, RESTORE WORK PAD POST CONSTRUCTION.

GRADE, GRAVEL, RESTORE WORK PAD POST CONSTRUCTION. EXISTING ACCESS TO REMAIN.

THIS AREA IS SUBJECT TO THE RARE SPECIES PROTECTION PLANS FOR AMERICAN BITTERSWEET (SPECIES CODE: K) AND HITCHCOCK'S SEDGE (SPECIES CODE: M).

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)



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- Guardrail
- Stonewall
- Headwall
- Culvert
- Gate
- 10ft Contours
- 2ft Contours
- Rare Species
- A — Rare Species Code/ Priority Habitat ID
- W-1 — Wetland ID

N

1 inch = 100 feet
0 50 100
Feet

*FOOTPRINTS OF EXISTING WORK PADS WERE OBTAINED IN JULY 2020 AND SHOULD BE FIELD VERIFIED FOR ACCURACY

LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: September 23, 2022

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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519-179
519-187
519-190
519-191
519-188
519-189
519-192
519-193
519-194
519-185

ASHFIELD

ACCESS FROM SMITH RD. MAT OR USE ACCESS AS IS.

TEMPORARY WETLAND MATTING 157 SF

K
PH 1656
PH 1659

36175
36174
36173
25186
25187A
25187
31094
31095
31093
31092
25188A
25188

AS-W45
AS-W46

312 LINE
1231 LINE
1242 LINE

100' BUFFER TREE REMOVAL 503 SF

WETLAND TREE REMOVAL 230 SF

SIDELINE TRIMMING

GRADE, GRAVEL, RESTORE WORK PAD POST CONSTRUCTION.

GRADE, GRAVEL, RESTORE WORK PAD POST CONSTRUCTION. EXISTING ACCESS TO REMAIN.

ASHFIELD MOUNTAIN RD

BUCKLAND RD

112

1430' 1420' 1410' 1400' 1390' 1380' 1370' 1360' 1350' 1340' 1330' 1320' 1310' 1300' 1290' 1280' 1270' 1260' 1300' 1310' 1320' 1330' 1340' 1350' 1360' 1370' 1380' 1390' 1400' 1410' 1420' 1430'

Resource Areas Reviewed:
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ASHFIELD

519-191

519-192

519-193

519-194

519-195

519-196

K

PH 1659

312 LINE

1231 LINE

1242 LINE

ACCESS FROM BAPTIST CORNER RD

25188A

25188

25189

25190

25191

36172

36171

36170

31091

31090

31089

1360' 1370' 1380' 1390' 1400' 1410' 1420' 1430' 1440' 1450' 1460' 1470' 1480' 1490' 1500' 1510' 1520' 1530' 1540' 1550' 1560' 1570' 1580' 1590'

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AREA 9 - PH 1687 (Map Pages 64)

Giant St. John's Wort (*Hypericum ascyron*)

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ASHFIELD

519-294

519-215

519-213

519-214

519-221

519-220

519-218

519-219

AS-W63

AS-W62

AS-W64

Bear River

DELINEATED RARE PLANT POPULATION

AVOID EXISTING BORROW PIT

APPROXIMATE LIMITS OF ENHANCEMENT AREAS

312 LINE

1231 LINE

1242 LINE

36158

36157

31075

25205

31074

25206A

25206

31073

PH 1687

SOUTH BEAR RIVER RD

ACCESS FROM BELDINGVILLE RD

GRADE, MAT, RESTORE WESTERN END OF WORK PAD.

100' BUFFER TREE REMOVAL 3,504 SF

200' RIVERFRONT TREE REMOVAL 3,504 SF

BLSF TREE REMOVAL 2,595 SF.

SIDELINE TRIMMING

SIDELINE TRIMMING

Resource Areas Reviewed:
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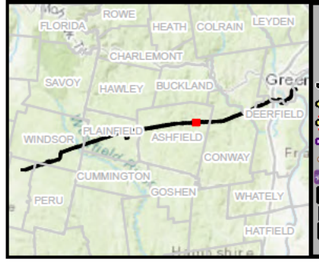

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PH 1687

519-220

519-214

519-215

SOUTH BEAR RIVER RD

519-218

519-219

MURRAY RD

ASHFIELD BELDINGVILLE RD

Resource Areas Reviewed:
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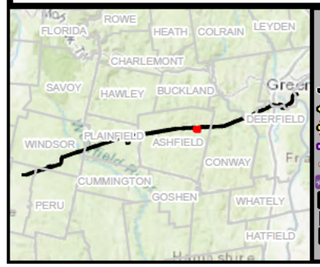

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- Approximate Limits of Habitat Enhancement
- Approx FEMA 100yr Floodplain
- Outstanding Resource Water
- Areas of Critical Environmental Concern
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- Delineated Rare Plant Population
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- Gate
- 10ft Contours
- 2ft Contours
- Rare Species
- A — Rare Species Code/ Priority Habitat ID
- W-1 — Wetland ID

N

1 inch = 100 feet

0 50 100

Feet

*FOOTPRINTS OF EXISTING WORK PADS WERE OBTAINED IN JULY 2020 AND SHOULD BE FIELD VERIFIED FOR ACCURACY

LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: September 23, 2022

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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Epsilon ASSOCIATED INC.

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AREA 12 - PH 1741 (Map Pages 78-81)

American bittersweet (*Celastrus scandens*)

Allegheny vine (*Adlumia fungosa*)

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CONWAY

ACCESS FROM ELMER RD

TEMPORARY WETLAND MATTING 186 SF

AVOID RARE SPECIES PLANTING AREA.

M

CO-W29

CO-W30

CO-W31

312 LINE

1242 LINE

1231 LINE

25235

31041

31040

25236

36127

K

36126

31039

25237

BC

PH 1741

CO-W33

CO-W32

519-250

519-251

WETLAND TREE REMOVAL 469 SF

100' BUFFER TREE REMOVAL 1,467 SF

100' BUFFER TREE REMOVAL 679 SF

SIDELINE TRIMMING

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)



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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Conway, MA

Date: September 23, 2022

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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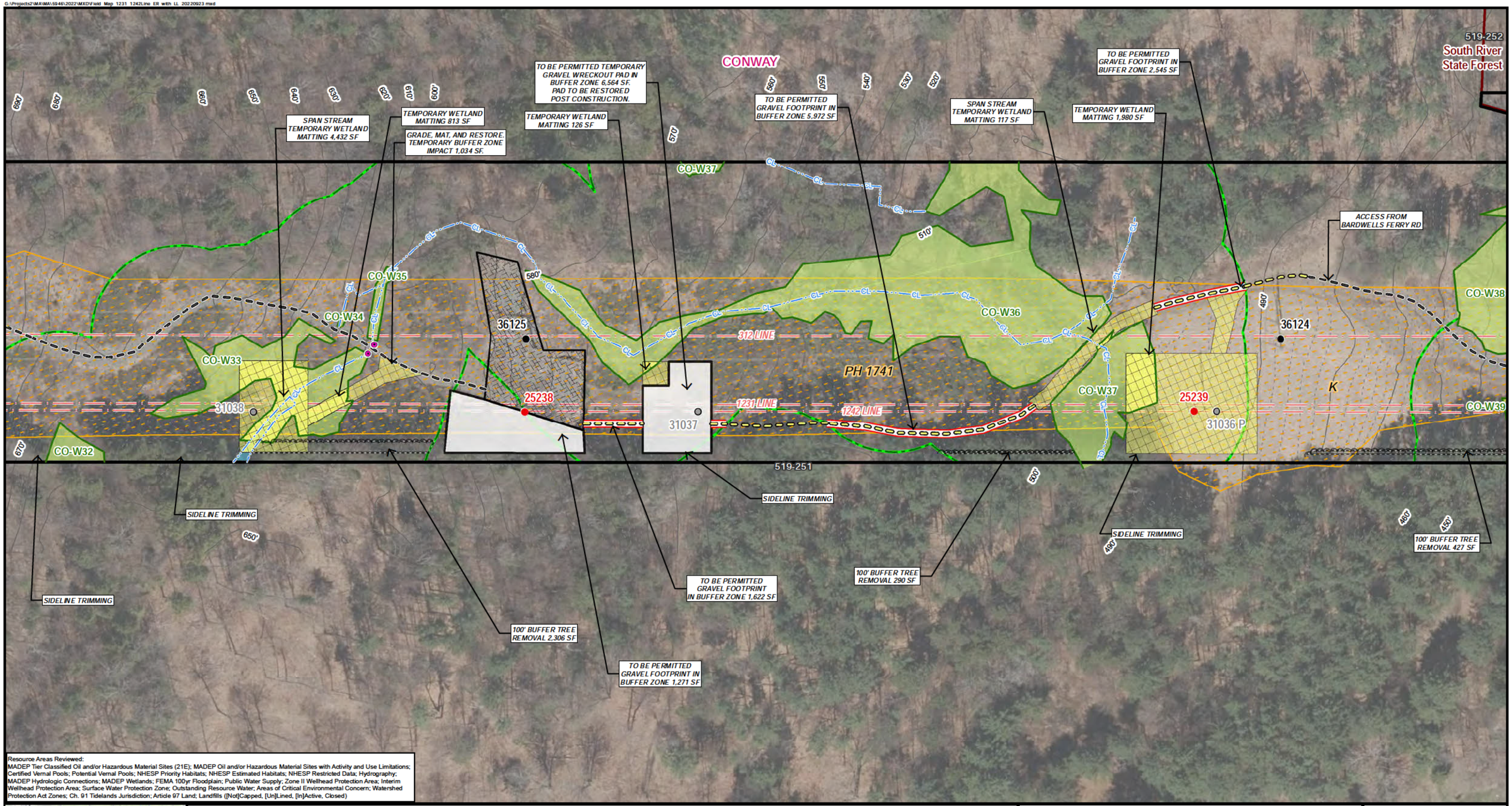

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Conway, MA

Date: September 23, 2022

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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TO BE PERMITTED TEMPORARY GRADING IN BUFFER ZONE. GRADE, MAT, RESTORE 2,303 SF BUFFER ZONE.

TEMPORARY WETLAND MATTING 9,333 SF

TEMPORARY WETLAND MATTING 152 SF

TEMPORARY WETLAND MATTING 764 SF

South River State Forest

519-252

519-259

519-254

519-253

519-255

519-251

519-256

CO-W38

CO-W39

CO-W40

CO-W41

CO-W42

CO-W43

CO-W43A

K

L K

PH 1741

36123

36122

36121

25240

31035 P

25241 (31034)

25242 (31033)

312 LINE

1242 LINE

1231 LINE

ACCESS FROM BARDWELLS FERRY RD

100' BUFFER TREE REMOVAL 427 SF

100' BUFFER TREE REMOVAL 913 SF

100' BUFFER TREE REMOVAL 372 SF

SIDELINE TRIMMING

SIDELINE TRIMMING

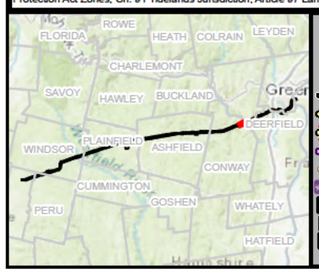
TEMPORARY WETLAND MATTING 2,709 SF

BARDWELLS FERRY RD

WHOLEY RD

CONWAY

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)



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N

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0 50 100

Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Conway, MA

Date: September 23, 2022

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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South River State Forest

TEMPORARY WETLAND MATTING 764 SF

AVOID RARE SPECIES PLANTING AREA

DELINEATED RARE PLANT POPULATION

519-260

519-261

SHELBURNE

CONWAY

519-262

CSX RAIL ROAD

519-264

TEMPORARY WETLAND MATTING 954 SF

519-267

ACCESS FROM TAYLOR ROAD

519-259

CO-W44

L

N

O

N

O

E

CO-W43

519-252

K

K

Deerfield River

312 LINE

36121

36120

519-254

25242 (31033)

CO-W43A

519-258

1242 LINE

1231 LINE

519-263

25243 (31032)

25244 (31031)

SH-W1

519-266

PH 1741

519-265

SPAN STREAM

519-255

BARDWELLS FERRY RD

519-257

P

SIDELINE TRIMMING

310'

100' BUFFER TREE REMOVAL 856 SF

WETLAND TREE REMOVAL 221 SF

TEMPORARY WETLAND MATTING 2,709 SF

WHOLEY RD

519-256

519-256

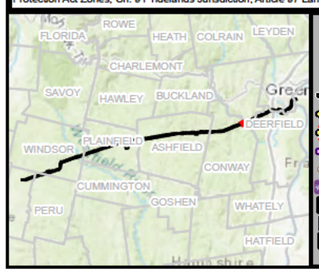
DEERFIELD

CONWAY

SHELBURNE

DEERFIELD

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)



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0 50 100

Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Conway, Shelburne & Deerfield, MA

Date: September 23, 2022

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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AREA 14 - PH 2084 (Map Pages 98-102)

Purple clematis (*Clematis occidentalis*)

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GREENFIELD

519-357
519-358
519-359
519-356
519-355
519-354
519-360
519-361
519-362
519-362.01

ACCESS FROM HOPE STREET
ACCESS FROM MOUNTAIN ROAD
DELINEATED RARE PLANT POPULATION
BEARS DEN RD
12013
12012
12011
12010
1242 LINE
1361 LINE
GR-W7
PH 2084
AW
R
S
Connecticut River Greenway State Park

Resource Areas Reviewed:
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Environmental Resources Map

Greenfield, MA

Date: September 23, 2022

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519-362

519-362.01

519-362.01

BEARS DEN RD

GREENFIELD

519-362

ACCESS FROM MOUNTAIN RD

1361 LINE

1242 LINE

12009

12008

12007

Connecticut River Greenway State Park

PH 2084

Connecticut River Greenway State Park

519-361

GR-W8

Resource Areas Reviewed:
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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Greenfield, MA

Date: September 23, 2022

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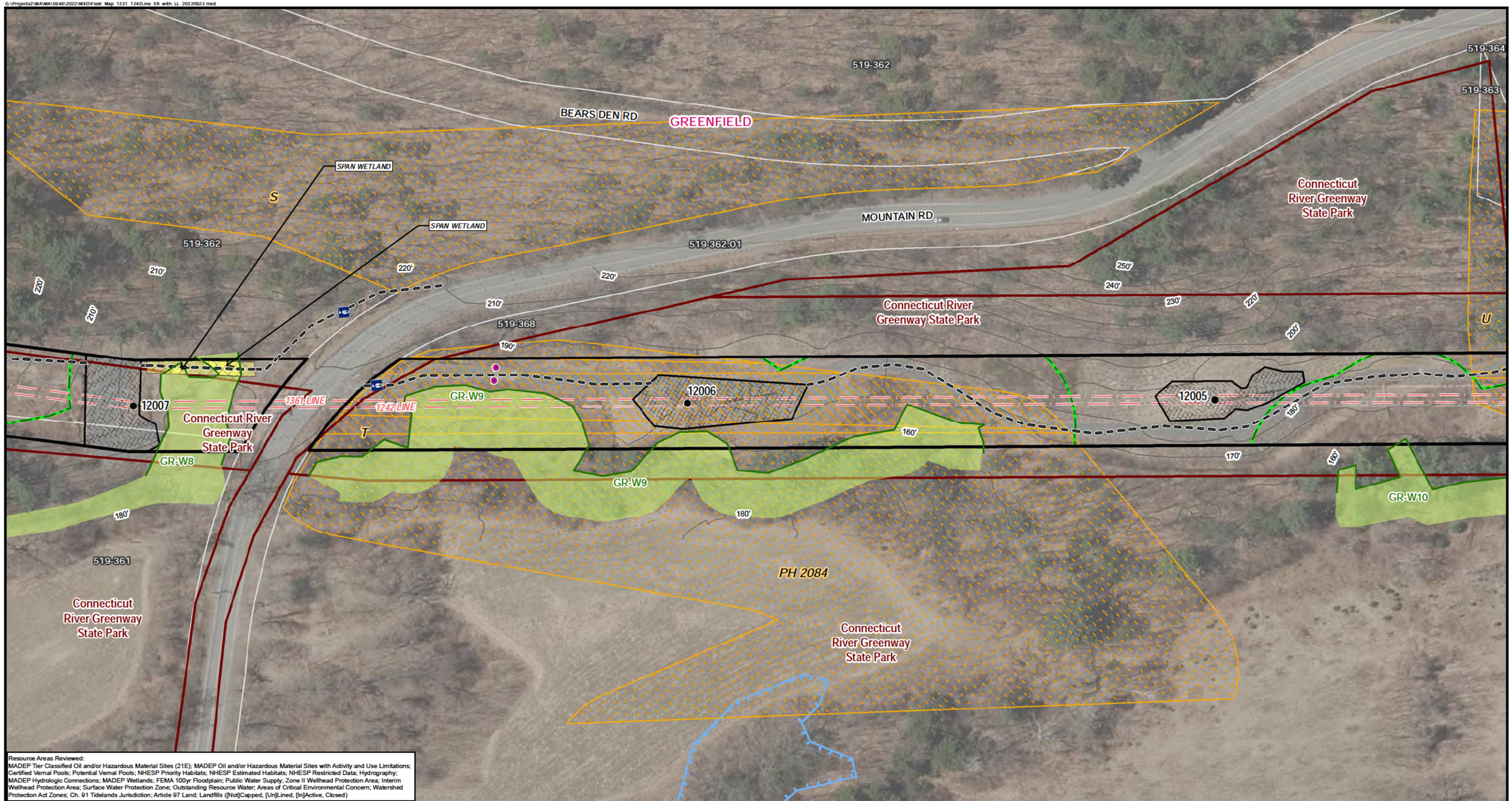

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1 inch = 100 feet
0 50 100
Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Greenfield, MA

Date: September 23, 2022

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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Attachment 6

Jefferson Salamander Protection Plan

OXBOW ASSOCIATES, INC.

Wetlands Delineation & Permitting Wildlife Studies Herpetology Vernal Pool Ecology Botany Aerial Imagery

Jefferson Salamander (*Ambystoma jeffersonianum*) Protection Plan

Eversource – Lines 1231 and 1242 Reconductor & Structure Replacement Project
Hinsdale to Montague
(NHESP File # 21-39898)



September 27, 2022

Prepared for:

NSTAR Electric Company dba Eversource
107 Selden Street
Berlin CT 06037

Prepared by:

Oxbow Associates, Inc.
P.O. Box 971
Acton, MA 01720

In accordance with Natural Heritage and Endangered Species Program's (NHESP) File # 21-39898, Oxbow Associates, Inc. (OA) has prepared this Rare Species Protection Plan (RSPP) to avoid incidental mortality (prohibited "Take"; 321 CMR 10.02 under the MA Endangered Species Act (MESA)), to Jefferson Salamander (*Ambystoma jeffersonianum*) during construction activities associated with the Lines 1231 and 1242 Reconductor and Structure Replacement Project within Priority and Estimated Habitat for Jefferson Salamander in Ashfield, MA.

As part of this Rare Species Protection Plan (RSPP), OA will obtain a Scientific Collection Permit from the Massachusetts Division of Fisheries and Wildlife (MDFW) prior to implementation.

Areas Subject to this Plan

As shown on project mapping provided in Attachment A (Map Pages 51-53), this RSPP shall be implemented within an area associated with NHESP mapped Priority Habitat (PH) 1690, Estimated Habitat (EH) 1140, and 2022 Operation and Maintenance Plan shapefile data. This area occupies the western portion of "Area 8 - Bear Swamp Road" as detailed in the 2022 MESA Checklist for the Lines 1231 and 1242 Reconductor and Structure Replacement Project. The entire area is located within the managed transmission line right-of-way (ROW) between existing structures 31105 **–** 31108**,** in the Town of Ashfield. There are three different points of access from Bear Swamp Road (Attachment A: Map Pages 52 and 53). In addition, structures 31109 and 31110, which are located proximal to mapped habitat, will be accessed from Bug Hill Road in Ashfield (Attachment A: Map Pages 49-51), however all work associated with these structures is outside of PH.

Mapped priority habitat for Jefferson salamander within the project limits includes moderate quality habitat. The project footprint in this area is approximately +/-2.53 acres and consists of a mix of temporary and permanent gravel work pads and the placement of construction mats. Grading for gravel work pads, and tree removals along the southern boundary of the ROW have been minimized to the maximum extent practical.

Proposed Jefferson Salamander Protection Measures

To prevent and minimize impact to Jefferson salamanders within the project area, the following shall be implemented for all construction activities which take place during the active season from March 15 to November 1 (exact dates may vary depending on the site and year related activity patterns in amphibians and these dates may be adjusted based on field conditions and in consultation with NHESP).

1. Contractor Education (CE)

Prior to the beginning of the work, OA will provide an approximately 20-minute CE session to project personnel that will be working onsite. The introductory CE session will address the following topics:

- Species identification, ecology, and regulatory compliance;
- The role of biologist(s) to provide monitoring and advise the Contractors' activity to maintain compliance with NHESP requirements;
- The Contractor's responsibility to inform new subcontractors of the rare species issues and schedule CE for incoming crews new to the project;
- Expected response to an animal observation (*e.g.*, incidents and animal mortalities must be reported to OA immediately); and
- Avoidance strategies to be implemented, including: how to properly sweep for salamanders within the work zone, the relationship between weather conditions and amphibian activity, speed limits, and material and equipment storage.

OA will provide each work site or crew with an 11 x 17-inch, laminated poster summarizing the points above and the contact information of OA biologist(s). The poster shall be displayed at each site trailer or prominent location on each job site to promote worker awareness and to serve as a quick reference in case of a salamander encounter.

All contractors participating in the CE session will sign a training log and attest that they will **maintain the confidentiality of listed species sighting(s)**. "Environmentally Sensitive" signage will be placed along the entrance to the access roads to remind the vehicle operators to be alert and ready to stop and avoid animals that may be occasionally encountered on the access roads, especially under cool and rainy weather conditions.

2. Minimization of Habitat Loss

To minimize impacts to wetlands, and habitat for rare amphibians, a combination of construction mats and temporary gravel pads will be used to minimize loss of upland and wetland habitat. As field conditions allow, mats will be installed in a manner that bridges the ground surface to further minimize impacts to upland and wetland habitat. Depending on the time of year, prior to mat installation the Amphibian Biologist will review installation sites and methods and determine the need for monitoring. During the active season for Jefferson salamander, monitoring will be conducted if grading, mat removal, or movement of other potential cover objects is planned.

3. Sedimentation and Erosion Control Barriers

Sediment control barriers (e.g., compost filter tubes) will be installed between the limits of ground disturbing work and adjacent wetland resource areas. Where installed, erosion and sediment control barriers will also serve the function of demarcating the limits of work. Prior to the commencement of work associated with access road improvements or maintenance, and work pad installations, barriers may be installed to prohibit salamanders from entering construction areas. The locations of these barriers will be determined by the contractor during construction, and OA will communicate directly with the contractor to coordinate barrier installation.

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In addition:

- The Contractor will be required to maintain a reserve supply of sediment and erosion control barriers to make repairs, as necessary.
- E&S controls will be inspected prior to and after significant precipitation events and repaired as necessary; and
- Following completion of the work, disturbed areas will be restored.

3. Staging Requirements

Staging equipment and material located shall be restricted to access roads and work pads.

4. Response to Salamander Encounter - Contractors

Contractors will be educated to the potential presence of salamanders within and adjacent to the work areas. Contractors shall be instructed to do the following if a salamander is observed when the amphibian biologist is absent:

- Take a photo of the individual and immediately notify the biologist about the salamander sighting.
- Move the salamander out of harm's way or outside the limit of work to a shaded and moist location pre-approved by the Amphibian Biologist.

Upon receipt of the information on the Jefferson Salamander, the biologist shall process, and document individual salamanders as follows:

1. Determine and map the original location of the salamander's capture and relocation sites using hand-held GPS.
2. Identify the species and examine for general health and fitness, (including any dead salamanders for possible cause of death). Injured or sick animals will be transported for rehabilitation to Tufts Wildlife Veterinary Clinic, or New England Wildlife Center or another approved facility in consultation with NHESP.
3. Take representative photographs of the Salamander including the key identifying features.
4. Determine and document the salamander(s) species, sex, and morphometric parameters approved by NHESP.
5. Relocate the captured salamander to a nearby, well shaded, and moist location outside of the work area.
6. To prevent transmission of pathogens, the Biologist(s) will sanitize all amphibian handling equipment after use with 5% household bleach solution. Such sanitation is also necessary when switching between different work sites. Any handling will be done using vinyl disposable gloves.

OA will report any state-listed salamanders directly to NHESP and via Heritage Hub. Monitoring reports will include the date, time, conditions, personnel, hours-on-site, and results of survey/monitoring efforts. A summary report will be provided at the end of the active season.

Attachment A

Lines 1231 and 1242 Reconductor and Structure Replacement Project
Environmental Resources Map
Pages 49 – 53

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ASHFIELD

519-153

519-154

519-160

519-159

519-152

519-155

519-158

519-156

519-157

519-151

1560'
1570'
1580'
1590'
1600'
1610'
1620'
1630'
1640'
1650'
1660'
1670'

1540'

36195
36194
36193
36192

312 LINE
1242 LINE
1231 LINE

31115
25166
31114
25167
25168
31113

AS-W14

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 9,086 SF

TEMPORARY WETLAND MATTING 2,971 SF

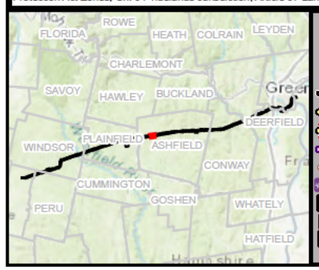
SIDELINE TRIMMING

SIDELINE TRIMMING

SIDELINE TRIMMING

BUG HILL RD

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)



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1 inch = 100 feet
0 50 100
Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: September 23, 2022

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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ASHFIELD

519-160

519-159

519-158

519-157

519-161

TEMPORARY WETLAND MATTING 548 SF

ACCESS FROM BUG HILL RD

SIDELINE TRIMMING

SIDELINE TRIMMING

SIDELINE TRIMMING

AS-W16

AS-W15

36192

36191

36190

312 LINE

1231 LINE

1242 LINE

25169

31112

25170

31111P

1650'

1640'

1670'

1680'

1690'

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0 50 100

Feet

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TEMPORARY WETLAND MATTING 548 SF

ACCESS FROM BUG HILL RD

TEMPORARY WETLAND MATTING 1,171 SF

TEMPORARY WETLAND MATTING 241 SF

ALTERNATE TEMPORARY ACCESS TO BE USED AS NECESSARY

TEMPORARY WETLAND MATTING 4,782 SF

ASHFIELD

TO BE PERMITTED TEMPORARY GRADING & GRAVEL WITHIN THE BUFFER ZONE 885 SF. GRADE, GRAVEL, RESTORE POST CONSTRUCTION.

PRIORITY HABITAT FROM OMP SHAPEFILE DATA.

PH 1690

519-160

519-164

519-159

519-163

519-161

519-162

519-157

AS-W15

AS-W16

AS-W17

AS-W18

AS-W18A

AS-W19

AS-W20

AS-W21

AS-W22

J

36189

36188

36187

25171

31110

25172

31109

25173

31108

312 LINE

1242 LINE

1231 LINE

SIDELINE TRIMMING

TEMPORARY WETLAND MATTING 460 SF

TEMPORARY WETLAND MATTING 3,990 SF

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 7,801 SF

WETLAND TREE REMOVAL 522 SF

100' BUFFER TREE REMOVAL 398 SF

WETLAND TREE REMOVAL 162 SF

TEMPORARY WETLAND MATTING 359 SF

200' RIVERFRONT TREE REMOVAL 2,805 SF

100' BUFFER TREE REMOVAL 724 SF

WETLAND TREE REMOVAL 51 SF

200' RIVERFRONT TREE REMOVAL 3,068 SF

WETLAND TREE REMOVAL 889 SF

100' BUFFER TREE REMOVAL 1,386 SF

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 3,553 SF

100' BUFFER TREE REMOVAL 499 SF

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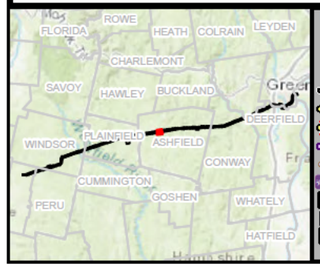

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Environmental Resources Map

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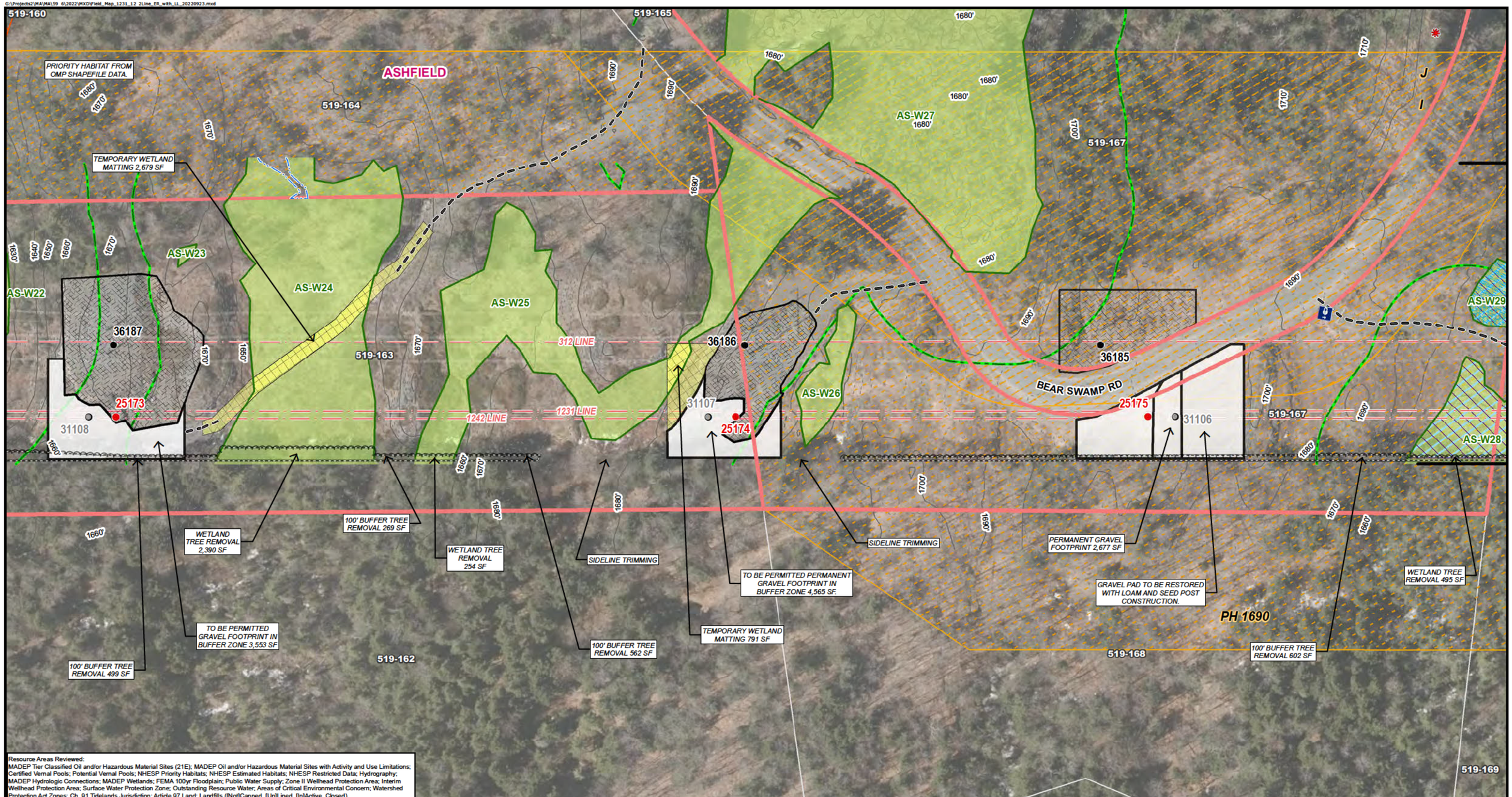

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Ashfield, MA

Date: September 23, 2022

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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TO BE PERMITTED TEMPORARY GRAVEL FOOTPRINT IN BUFFER ZONE 7,695 SF AND RIVERFRONT AREA 8,194 SF. GRAVEL PAD TO BE RESTORED WITH LOAM AND SEED POST CONSTRUCTION.

WETLAND CLASSIFIED AS AN OUTSTANDING RESOURCE WATER. WITHIN WETLAND, FILTER FABRIC MUST BE INSTALLED BELOW TEMPORARY SWAMP MATTING, REFUELING PROHIBITED, AND DE-ICING MATERIAL PROHIBITED. FULL TIME ENVIRONMENTAL MONITORING REQUIRED.

TEMPORARY WETLAND MATTING 1,260 SF

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 8,131 SF

TEMPORARY WETLAND MATTING 127 SF

TEMPORARY WETLAND MATTING 1,894 SF

200' RIVERFRONT TREE REMOVAL 60 SF

100' BUFFER TREE REMOVAL 105 SF

WETLAND TREE REMOVAL 33 SF

100' BUFFER TREE REMOVAL 112 SF

100' BUFFER TREE REMOVAL 664 SF

WETLAND TREE REMOVAL 203 SF

100' BUFFER TREE REMOVAL 1,206 SF

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 2,801 SF

100' BUFFER TREE REMOVAL 408 SF

200' RIVERFRONT TREE REMOVAL 2,740 SF

WETLAND TREE REMOVAL 495 SF

100' BUFFER TREE REMOVAL 602 SF

100' BUFFER TREE REMOVAL 605 SF

SIDELINE TRIMMING

WETLAND CLASSIFIED AS AN OUTSTANDING RESOURCE WATER. WITHIN WETLAND, FILTER FABRIC MUST BE INSTALLED BELOW TEMPORARY SWAMP MATTING, REFUELING PROHIBITED, AND DE-ICING MATERIAL PROHIBITED. FULL TIME ENVIRONMENTAL MONITORING REQUIRED.

ASHFIELD

SPAN STREAM

Smith Brook

BEAR SWAMP RD

519-167

519-168

519-169

AS-W29

AS-W31

AS-W32

AS-W33

AS-W34

AS-W28

AS-W30

36184

36183

36182

PH 1653

PH 1690

312 LINE

1242 LINE

1231 LINE

25176

31105

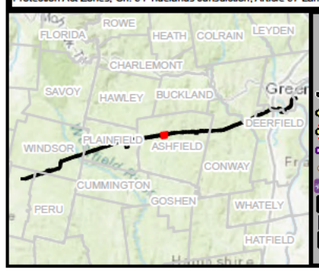
25177

31104

25178A

25178

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

- Proposed Structure
- Existing Structure
- Existing Structure to be Removed
- Existing Access
- Proposed Access
- Access Road to be Improved
- Alternate Access
- Hiking Trail
- ATV Access
- Stone Work Pad
- Temporary Construction Matting
- Existing Gravel
- Pull Pad
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- Proposed Permanent Bridge
- Delineated Perennial Watercourse (MAHW/OHW)
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- Riverfront Mitigation Area
- Approximate Limits of Habitat Enhancement
- Approx FEMA 100yr Floodplain
- Outstanding Resource Water
- Areas of Critical Environmental Concern
- Surface Water Protection Area
- Certified Vernal Pools
- Field Delineated Vernal Pool
- Approximate Potential Vernal Pool
- OMP NHESP Habitat
- Delineated Rare Plant Population
- Proposed Rare Planting Area
- Eversource Owned Property
- Existing Right-of-Way
- Agricultural Preservation Restriction
- Parcel Boundary
- State-Owned Property
- Municipal Boundary
- Existing Tree Line
- Proposed Tree Removal
- Fence
- Guardrail
- Stonewall
- Headwall
- Culvert
- Gate
- 10ft Contours
- 2ft Contours
- Rare Species
- A Rare Species Code/ Priority Habitat ID
- W-1 Wetland ID

N

1 inch = 100 feet

0 50 100

Feet

*FOOTPRINTS OF EXISTING WORK PADS WERE OBTAINED IN JULY 2020 AND SHOULD BE FIELD VERIFIED FOR ACCURACY

LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: September 23, 2022

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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Attachment 7

Wood Turtle Protection Plan

OXBOW ASSOCIATES, INC.

Wetlands Delineation & Permitting Wildlife Studies Herpetology Vernal Pool Ecology Botany Aerial Imagery

Wood Turtle (*Glyptemys insculpta*) Protection Plan

Eversource – Lines 1231 and 1242 Reconductor & Structure Replacement Project
Hinsdale to Montague
(NHESP File # 21-39898)



October 3, 2022

Prepared for:

NSTAR Electric Company dba Eversource
107 Selden Street
Berlin CT 06037

Prepared by:

Oxbow Associates, Inc.
P.O. Box 971
Acton, MA 01720

The Turtle Protection Plan provided below is intended to prevent mortality, injury, and minimize disturbance of wood turtle during Project related active site work including vegetation management (e.g., mowing and tree removals), structure replacement activities, and ROW restoration. Part of the work is anticipated to occur during the wood turtle active season (approximately April 1-October 31*), while the remaining work is proposed during the inactive season (approximately November 1 – March 31).

*Dates may vary depending on weather conditions and activity patterns in a local population. Active and/or inactive dates are to be determined more precisely in consultation with NHESP.

Wood Turtle Protection Plan

In accordance with NHESP File # 21-39898, OA has prepared this Turtle Protection Plan (TPP) to prevent mortality, injury, and minimize disturbance of wood turtle during Project related active site work (in accordance with 321 CMR 10.02 under the MA Endangered Species Act (MESA)), to wood turtle during construction of the Project within Priority Habitat for wood turtle within the Towns of Plainfield, Ashfield Conway, Greenfield and Deerfield, MA.

As part of this TPP, OA will obtain a Scientific Collection Permit from the DFW prior to the commencement of work.

Areas Subject to this Plan

As detailed above and shown in the Project mapping provided in Attachment 1 (Map Pages 33 – 35, 43 – 46, 62 – 68, 71, and 93 – 96), there are five main areas (i.e., Focal Areas 5, 7, 9, 10, and 13) subject to the TPP:

- Area 5: Located within the managed ROW within the Mill Brook basin in the Town of Plainfield.
- Area 7: Located within the managed ROW within the Swift River and Billings Brook complex in the Towns of Plainfield and Ashfield.
- Area 9: Located within the managed ROW within the Bear River basin in the Town of Ashfield.
- Area 10: Located in the managed ROW within the Bear River basin in the Town of Conway
- Area 13: Located within the Deerfield River basin in the Towns of Greenfield and Deerfield.

Area 5 is accessed from Summit Street in Plainfield (for the replacement of Structures 31152-31153), and from West Hill Road (for the removal of Structure 31151, and the replacement of Structure 31150).

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This area contains high to moderate quality wood turtle habitat. The proposed disturbance is estimated to be +/-1.84 acres. Project related activities are shown on Project mapping included in Attachment 1.

Area 7 is accessed from Grant Street in Plainfield (for the replacement of Structures 31125-31127) and via Watson Spruce Corner Road in Ashfield (for the replacement of Structures 31123 – 31124).

This area includes high to moderate quality wood turtle habitat. The proposed disturbance is estimated to be +/-2.92 acres. Project related activities are shown on Project mapping included in Attachment 1.

Area 9 will be accessed from the following points:

- Bellus Road (for the replacement of Structure 31079).
- Beldingville Road (for the replacement of Structures 31076-31078).
- South Bear River Road (for the replacement of Structures 31071-31074 and the removal of Structure 31075).
- Pfersick Road (for the replacement of Structure 31065, the removal of Structure 31066, and the replacement of Structures 31067 – 31070).

This area includes high to moderate quality wood turtle habitat. The proposed disturbance is estimated to be +/-8.15 acres. Project related activities are shown on Project mapping included in Attachment 1.

Area 10 is accessed from Pfersick Road in Ashfield (for the replacement of Structure 31057), and from South Shirkshire Road in Conway (for the replacement of Structure 31056).

The proposed disturbance from placement of temporary construction mats in wetlands and uplands mats, tree removals along the southern edge of the ROW is estimated to be +/-1 acres.

Area 13 is accessed from the following points:

- Deerfield Road, Greenfield (Structure 12018-12019).
- Pogues Hole Road, Deerfield (Structures 12020-12022),
- Colorado Avenue, Greenfield (Structures 12023-12024),
- Lower Road, Greenfield (Structure 12025)

The proposed disturbance within Area 5 is limited to placement of +/-0.06 acres of temporary construction mats to establish bucket truck work pads at Structure 12019. Heavy equipment will be necessary for the placement and removal of mats at this location. As necessary, Structures 12020 - 12024 will be climbed for fiber optic/OPGW work, which will not require the use of heavy equipment. Lastly, a helicopter will be used to complete aerial work associated with the OPGW installation.

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Focal Area/Town	PH/EH	Existing Line 1231-1242 Structures	Map Pages
Area 5: Plainfield	1672/1130	31150-31153	33-35
Area 7: Plainfield, Ashfield	1714/1178	31123-31127	46-46
Area 9: Ashfield	1687/1178	31065-31079	62-68
Area 10: Conway	1687/1178	31056-31057	71
Area 13: Greenfield, Deerfield	2084/1178	12018-12025	93-96

Proposed Wood Turtle Protection Measures

To avoid and minimize impacts to known populations of wood turtle within the project area, the following shall be implemented for all construction activities which take place during the active season from approximately April 1 to October 31 (dates may vary depending on weather conditions and activity patterns in a local population. Active and/or inactive dates are to be determined more precisely in consultation with NHESP).

1. **Contractor Education (CE)**

Prior to the beginning of the work, OA will provide an approximately 20-minute CE session to project personnel that will be working at the site. The introductory CE session will address the following topics:

- Species identification and ecological significance
- The role of biologist(s) providing monitoring of the project for compliance with NHESP requirements
- The role of contractors to inform new subcontractors of the rare species issues and schedule CE for incoming crews new to the project
- Expected response to an animal observation (*e.g.*, incidents and animal mortalities must be reported to OA immediately)
- Avoidance strategies to be implemented including how to properly search for turtles, speed limits, fence maintenance, and material and equipment storage.

OA will provide each work site or crew with an 11 x 17-inch, laminated poster summarizing the points above and the contact information of OA biologist(s). The poster shall be displayed at each site trailer or prominent location on each job site to maintain worker awareness and to serve as a quick reference in case of a turtle encounter.

All contractors participating in the CE session will sign a training log and attest that they will maintain the confidentiality of listed species sighting(s). Turtle awareness and speed limit signage will be placed along the entrance to the access roads, and to the site to remind the vehicle operators to be alert and ready to stop and avoid turtles that may be encountered on the road.

2. Installation and Maintenance of a Turtle Barrier Fence

Should construction activities extend into the active season for wood turtle, prior to the commencement of work the contractor will be required to install exclusion barriers around predetermined sections access of roads and work pads. These measures specifically pertain to Area 7 (Structures 31124 and 31125; Map Pages 44-45), and Area 9 (Structures 31071, 31076, 31077, Map Pages 62-68).

The extent of barriers needed will be determined by the Turtle Biologist based on site conditions, work activities, and radio-telemetry data. OA will communicate directly with the Contractor to coordinate barrier installation and inspection. The barrier will consist of a standard, 36-inch silt fence trenched-in the ground approximately 6 inches and staked approximately every 8 feet and shall be installed by hand or using mechanical hand tools such as a ditch witch. Use of larger machinery to install the turtle barrier is not anticipated and must be preapproved by NHESP. Temporary gates (e.g., 24" PVC Half-Culverts or equivalent will be fitted to each construction access point to be closed at the end of each workday.

Once the barrier and the gates are installed, OA will confirm the barrier is installed properly, and survey the site to remove any turtles within the barrier. The integrity of the barrier will be inspected daily by the contractor for the duration of work within the active season, and the construction access point (e.g., wooden barriers/half culverts) will be closed at the end of each workday. If damage occurs to the turtle barrier, it will be repaired promptly, and the turtle biologist will be notified. The contractor shall maintain written or electronic logs of fence inspections as part of their daily tailboard sheet and provide the log to the Turtle Biologist upon request. At minimum, during the active season, the Turtle Biologist shall inspect the fence 1-2 times per month and following any repairs.



24" PVC Culvert "Gate"



"Wooden "Gate"

3. Turtle Surveys Prior to Vegetation Management and Structure Replacement Activities

Prior to the commencement of any vegetation removal and earth disturbing structure replacement activities during the active season, all work areas shall be surveyed by an NHESP-approved Turtle Biologist. Because much of the work area is sparsely vegetated,

the work area will be surveyed prior to any earthwork at a rate of approximately 2-3 hours/acre.

4. Construction Oversight and Vehicle Escorts

During the active season, a NHESP-approved Turtle Biologist (or trained and qualified personnel) shall be on-site to monitor construction activities and to monitor turtle movement using radiotelemetry and report their locations to the contractor. The frequency of inspections will vary from daily to weekly depending on work activities, deliveries, telemetry data, and season. Telemetry data will be used to inform the construction team to avoid impacts to turtles.

Depending on the location of turtles, daily escorting of construction vehicles may be necessary to minimize the risk of mortality in areas known to be used by turtles in Areas 7 and 9. If necessary, vehicles will be held at a designated entrance location and escorted by a qualified turtle biologist who will walk or slowly drive ahead of the vehicle(s) to ensure there are no turtles within the road that may be struck by the vehicle. All vehicles will be held to a low-speed limit, 5 - 10 miles per hour, or less, and documented by the escorting biologist.

5. Staging and Stacking Requirements

Staging equipment and material located beyond the proposed access road and work pads will be avoided to the extent practicable. If necessary, staged material (e.g., structures) on the sides of the access roads, edge of work pads, or any locations currently vegetated with groundcover and shrubs will be either be enclosed with an exclusionary barrier or inspected by a Turtle Biologist prior to movement.

6. Turtle Observation Notification Requirements

Contractors shall be mindful as to the potential presence of turtles within and adjacent to the work areas at all times during construction. Should a turtle be observed when the Turtle Biologist is absent from the site, the contractor shall:

1. Immediately notify the Turtle Biologist of the turtle sighting and shall place the turtle in an appropriate container in a shaded location as directed by the Turtle Biologist.
2. If directed by the Turtle Biologist, the contractor shall move the turtle out of harm's way or outside the turtle barrier fencing.

As necessary, upon receipt of the turtle, the biologist shall process, and document individual turtles as follows:

1. Determine and map the original location of the turtle's capture and relocation sites using hand-held GPS.
2. Identify the species and examine for general health and fitness, (animal carcasses for possible cause of death). Injured or sick animals will be transported for

rehabilitation to Tufts Wildlife Veterinary Clinic, or New England Wildlife Center or another approved facility in consultation with NHESP.

3. Check the turtle for presence of existing notches, and other identifying features, and notch naïve turtles in accordance with the notching scheme approved by NHESP.
4. Take representative photographs of the turtle demonstrating the key identifying features.
5. Determine and document the turtle(s) age, sex, and changing morphometric parameters approved by NHESP.
6. Attach a radio-transmitter to the turtles (unless they are too small).
7. Relocate the captured turtle to a nearby location outside of the work area with similar conditions.
8. To prevent transmission of pathogens, the Turtle Biologist(s) will sanitize all species handling equipment after use with 10% household bleach solution. Such sanitation is also necessary when switching between different work sites.

As a part of permit requirements, a brief memorandum will be provided to NHESP within 10 days of completion of dedicated searches for turtles within the work areas isolated by barriers. OA will report any state-listed turtles directly to the Eversource Licensing & Permitting Staff and via Heritage Hub. All monitoring and summary reports will be provided to Eversource Environmental Licensing & Permitting Staff who will provide the same to the NHESP. Summary reports will include the date, time, conditions, personnel, person-hours on-site, and results of survey/monitoring efforts. A summary report will be provided at the end of the active season.

Attachment A

Lines 1231 and 1242 Reconductor and Structure Replacement Project
Environmental Resources Map Pages

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PLAINFIELD

LL#83

LL#88

LL#89

LL#90

LL#91

LL#87

G

PH 1672

36237

25129A

25129

31154

31155

312 LINE

1231 LINE

1242 LINE

PL-W27

PL-W26

ACCESS FROM SUMMIT ST

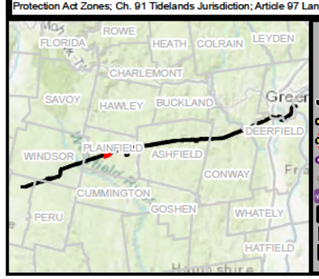
WRECK OUT PAD TO BE RESTORED POST CONSTRUCTION.

SIDELINE TRIMMING

100' BUFFER TREE REMOVAL 7,120 SF

200' RIVERFRONT TREE REMOVAL 9,105 SF

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

- Proposed Structure
- Existing Structure
- Existing Structure to be Removed
- Existing Access
- Proposed Access
- Access Road to be Improved
- Alternate Access
- Walking Trail
- ATV Access
- Proposed Gravel Pad
- Temporary Construction Matting
- Existing Gravel Pad
- Pull Pad
- Stone Construction Entrance
- Permanent/Temporary Grading
- Bridge Crossing
- Delineated Perennial Watercourse (MAHW/OHW)
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- Culvert
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- 10ft Contours
- 2ft Contours
- A Rare Species Code/ Priority Habitat ID
- W-1 Wetland ID

1 inch = 100 feet
0 50 100
Feet

*FOOTPRINTS OF EXISTING WORK PADS WERE OBTAINED IN JULY 2020 AND SHOULD BE FIELD VERIFIED FOR ACCURACY

LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Plainfield, MA

Date: July 7, 2022

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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PLAINFIELD

LL#89

LL#90

LL#91

LL#92

LL#93

LL#94

LL#95

LL#96

LL#97

LL#87

PL-W28

PL-W29

PL-W30

PL-W31

Mill Brook

PH 1672

HILL RD W

ACCESS FROM SUMMIT ST

TEMPORARY WETLAND MATTING 733 SF

TO BE PERMITTED TEMPORARY GRAVEL FOOTPRINT IN BUFFER ZONE 1,589 SF. GRAVEL ACCESS TO BE RESTORED POST CONSTRUCTION.

TEMPORARY WETLAND MATTING 357 SF

200' RIVERFRONT TREE REMOVAL 12,183 SF

100' BUFFER TREE REMOVAL 8,359 SF

200' RIVERFRONT TREE REMOVAL 2,613 SF

SIDELINE TRIMMING

TO BE PERMITTED TEMPORARY GRADING IN RIVERFRONT & 100' BUFFER 4,125 SF. GRADE, MAT, AND RESTORE GRADED PORTION OF WORK PAD POST CONSTRUCTION.

BLSF TREE REMOVAL 493 SF

WETLAND TREE REMOVAL 2,613 SF

BLSF TREE REMOVAL 1,794 SF

36236

36235

25130

31153P

25131

31152

31151

312 LINE

1231 LINE

1242 LINE

1410'

1460'

1470'

1480'

1390'

1400'

1420'

1430'

1440'

1450'

1380'

G

Resource Areas Reviewed:
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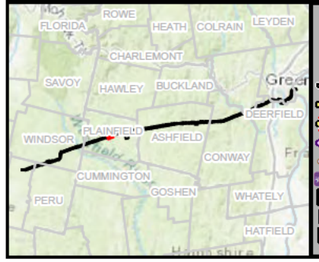

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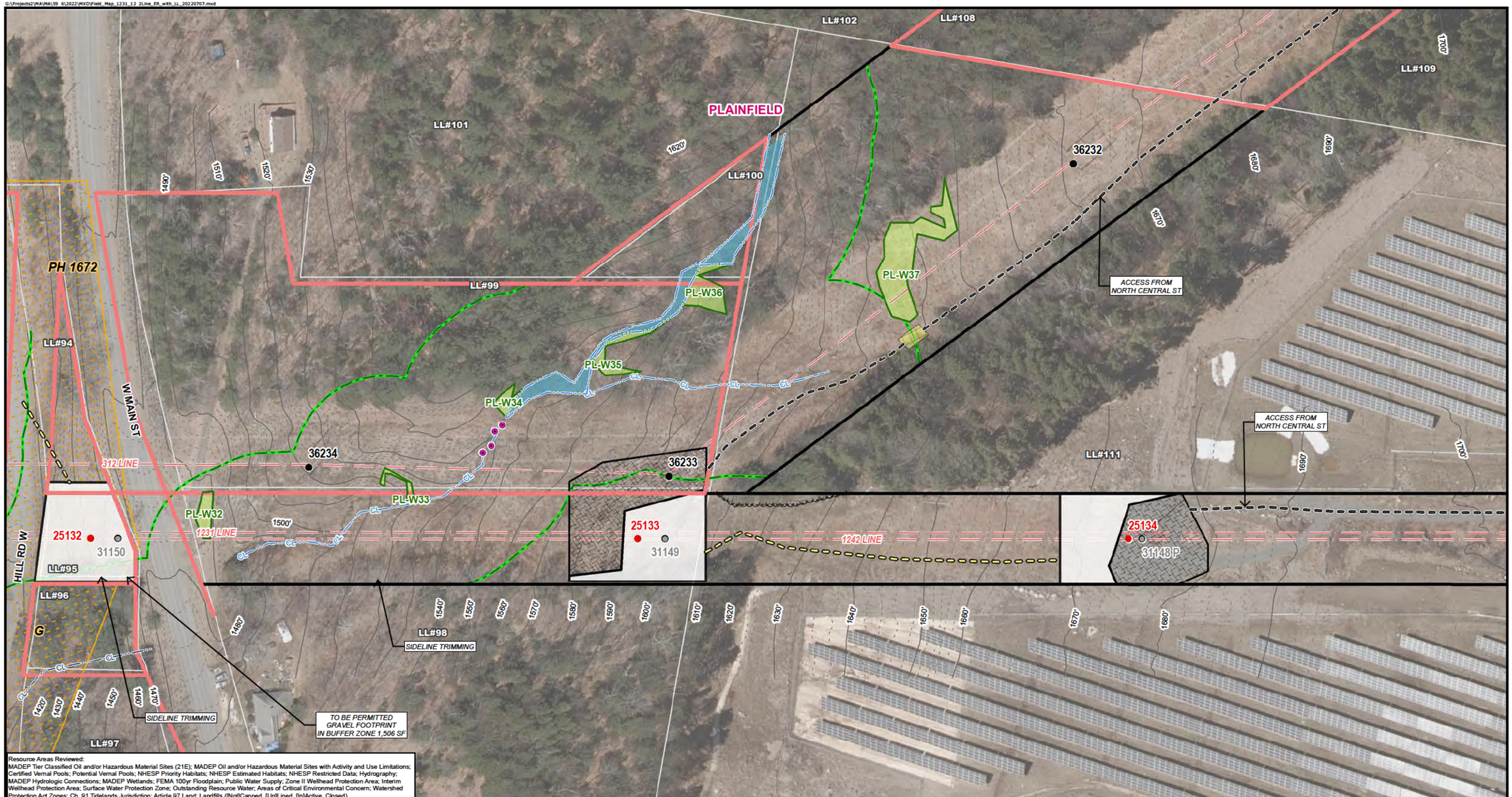
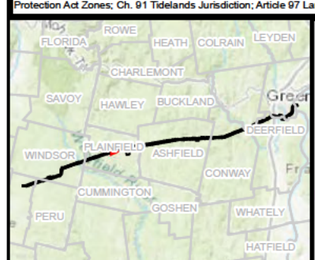


Resource Areas Reviewed:
MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Hydrography; 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

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- 10ft Contours
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- W-1 Wetland ID

1 inch = 100 feet

0 50 100

Feet

*FOOTPRINTS OF EXISTING WORK PADS WERE OBTAINED IN JULY 2020 AND SHOULD BE FIELD VERIFIED FOR ACCURACY

LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Plainfield, MA

Date: July 7, 2022

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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PLAINFIELD

LL#133

LL#138

PL-W49

LL#134

1630'

1620'

TEMPORARY WETLAND MATTING 4,326 SF

1610'

1620'

36213

PL-W48

1600'

36212

312 LINE

36211

GRANT ST

1231 LINE

1242 LINE

25150

31131

25151

31130

LL#137

1570'

1580'

LL#131

1590'

WETLAND TREE REMOVAL 192 SF

WETLAND TREE REMOVAL 52 SF

TEMPORARY WETLAND MATTING 6,662 SF

TEMPORARY WETLAND MATTING 138 SF

100' BUFFER TREE REMOVAL 454 SF

1610'

LL#132

LL#136

SIDELINE TRIMMING

LL#135

LL#138

Resource Areas Reviewed:
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PLAINFIELD

LL#133

LL#135

LL#137

LL#136

LL#138

1620'

1610'

1580'

1570'

1550'

1540'

1530'

1510'

1500'

1490'

1480'

1600'

APPROXIMATE LIMITS OF ENHANCEMENT AREA

APPROXIMATE LIMITS OF ENHANCEMENT AREA

APPROXIMATE LIMITS OF ENHANCEMENT AREA

36210

36209

36208

25152

31129

25153

31128

31127

25154

312 LINE

1242 LINE

1231 LINE

PL-W50

PL-W51

PL-W52

PL-W53

PL-W54

PH 1714

G

ACCESS FROM GRANT ST

SIDELINE TRIMMING

TEMPORARY WETLAND MATTING 455 SF

SIDELINE TRIMMING

SIDELINE TRIMMING

TEMPORARY WETLAND MATTING 7,733 SF

SIDELINE TRIMMING

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)



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PLAINFIELD

ASHFIELD

APPROXIMATE LIMITS OF ENHANCEMENT AREA

TEMPORARY WETLAND MATTING 1,394 SF

TEMPORARY WETLAND MATTING 5,189 SF

TEMPORARY WETLAND MATTING 3,892 SF

LL#140

AS-W1A

Billings Brook

AS-W1

AS-W2

36207

36206

36205

312 LINE

1231 LINE

1242 LINE

PH 1714

31127

25154

PL-W54

PL-W55

AS-W1

25155

31126

25156

31125

LL#138

LL#139

G

SIDELINE TRIMMING

ACCESS FROM GRANT ST

TEMPORARY WETLAND MATTING 239 SF

TEMPORARY WETLAND MATTING 7,733 SF

100' BUFFER TREE REMOVAL 376 SF

SIDELINE TRIMMING

TEMPORARY WETLAND MATTING 1,796 SF

100' BUFFER TREE REMOVAL 1,112 SF

WETLAND TREE REMOVAL 2,103 SF

SIDELINE TRIMMING

TEMPORARY WETLAND MATTING 18,508 SF

200' RIVERFRONT TREE REMOVAL 829 SF

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)



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1 inch = 100 feet
0 50 100
Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Plainfield & Ashfield, MA

Date: July 7, 2022

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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ASHFIELD

LL#140

APPROXIMATE LIMITS OF ENHANCEMENT AREA

TEMPORARY WETLAND MATTING 3,895 SF

TEMPORARY WETLAND MATTING 3,974 SF

TEMPORARY WETLAND MATTING 905 SF

400 SF ELEVATED AREA TO BE GRADED FOR MAT PLACEMENT.

ACCESS FROM WATSON SPRUCE CORNER RD

1470'

1460'

1450'

1440'

1430'

1420'

1410'

G

AS-W2

AS-W2A

AS-W3

AS-W4

AS-W5

AS-W6

AS-W7

AS-W8

36205

36204

36203

312 LINE

1242 LINE

1231 LINE

25157

31124

25158

31123

Billings Brook

Swift River

PH 1714

LL#139

LL#141

200' RIVERFRONT TREE REMOVAL 368 SF

100' BUFFER TREE REMOVAL 902 SF

WETLAND TREE REMOVAL 1,462 SF

WETLAND TREE REMOVAL 150 SF

100' BUFFER TREE REMOVAL 1,172 SF

BLSF TREE REMOVAL 2,455 SF

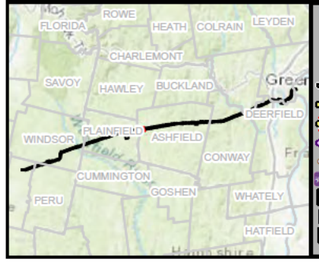
100' BUFFER TREE REMOVAL 177 SF

100' BUFFER TREE REMOVAL 609 SF

WETLAND TREE REMOVAL 788 SF

100' BUFFER TREE REMOVAL 300 SF

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)



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- Culvert
- Gate
- 10ft Contours
- 2ft Contours
- A — Rare Species Code/ Priority Habitat ID
- W-1 — Wetland ID

1 inch = 100 feet
0 50 100
Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: July 7, 2022

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LL#140

ASHFIELD

1480'

1500'

1510'

LL#142

PH 1714

AS-W10

G

CL

36202

312 LINE

36201

36200

AS-W8

1480'

1490'

25159

31122

1242 LINE

1231 LINE

31121

25160

25161A

25161

LL#141

AS-W9

1540'

1440'

1450'

1460'

1470'

100' BUFFER TREE REMOVAL 300 SF

1480'

WETLAND TREE REMOVAL 211 SF

ACCESS FROM WATSON SPRUCE CORNER RD

1540'

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 5,257 SF

100' BUFFER TREE REMOVAL 803 SF

100' BUFFER TREE REMOVAL 681 SF

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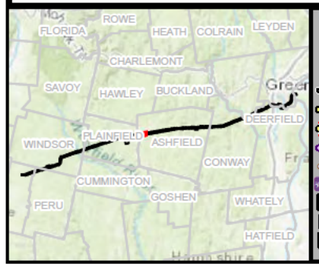

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LL#197

ASHFIELD

PH 1687

G

LL#198

LL#199

LL#200

LL#201

LL#202

BELLUS RD

36163

36162

36161

31081

25199

25200

31080

25201

31079

312 LINE

1242 LINE

1231 LINE

GRADE, MAT, RESTORE POST CONSTRUCTION.

Resource Areas Reviewed:
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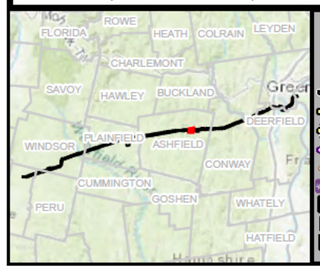

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1 inch = 100 feet
0 50 100
Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: July 7, 2022

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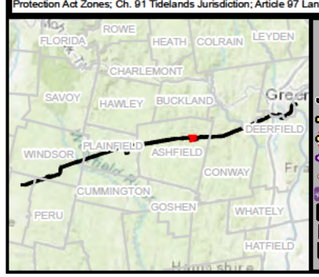
LL#204
ASHFIELD
LL#206
LL#283
LL#205
MODERATE QUALITY TURTLE NESTING HABITAT IDENTIFIED IN 2019
AS-W57
Bear River
G
AS-W61
PH 1687
AS-W62
AS-W59
36160
312 LINE
AS-W58
36159
25202
31078
31077 P
25203
31077 P2
1242 LINE
1231 LINE
LL#207
25204
31076
AS-W60
TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 8,442 SF AND RIVERFRONT AREA 8,218 SF. 8,218 SF OF RIVERFRONT AREA AND 8,442 SF IN BUFFER ZONE TO BE RESTORED POST CONSTRUCTION.
LL#202
LL#203
200' RIVERFRONT TREE REMOVAL 1,019 SF
100' BUFFER TREE REMOVAL 2,102 SF
BELDINGVILLE RD
100' BUFFER TREE REMOVAL 1,222 SF
BLSF TREE REMOVAL 2,315 SF.
200' RIVERFRONT TREE REMOVAL 2,768 SF
100' BUFFER TREE REMOVAL 1,365 SF
100' BUFFER TREE REMOVAL 3,504 SF
200' RIVERFRONT TREE REMOVAL 3,504 SF
LL#208

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)



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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA
Page 63 of 102
Date: July 7, 2022

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ASHFIELD

LL#283

LL#209

LL#215

LL#207

LL#208

LL#212

LL#214

LL#213

PH 1687

AS-W63

Bear River

AS-W62

AS-W64

DELINEATED RARE PLANT POPULATION

AVOID EXISTING BORROW PIT

APPROXIMATE LIMITS OF ENHANCEMENT AREAS

312 LINE

1231 LINE

1242 LINE

36158

36157

25205

31074

25206A

25206

31073

31075

GRADE, MAT, RESTORE WESTERN END OF WORK PAD.

ACCESS TO BE IMPROVED WITH GRAVEL. SELECT TREE REMOVAL/TRIMMING AS NECESSARY TO ALLOW EQUIPMENT ACCESS.

ACCESS FROM BELDINGVILLE RD

SOUTH BEAR RIVER RD

100' BUFFER TREE REMOVAL 3,504 SF

200' RIVERFRONT TREE REMOVAL 3,504 SF

BLSF TREE REMOVAL 2,595 SF.

SIDELINE TRIMMING

SIDELINE TRIMMING

Resource Areas Reviewed:
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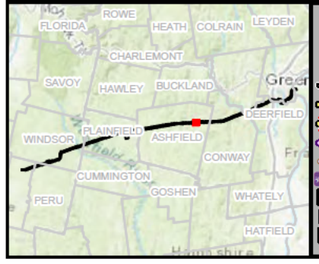

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- W-1 — Wetland ID

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0 50 100
Feet

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Environmental Resources Map

Ashfield, MA

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PH 1687

G

LL#214

LL#208

LL#209

LL#212

LL#213

SOUTH BEAR RIVER RD

ACCESS TO BE IMPROVED WITH GRAVEL. SELECT TREE REMOVAL/TRIMMING AS NECESSARY TO ALLOW EQUIPMENT ACCESS.

MURRAY RD

ASHFIELD

BELDINGVILLE RD

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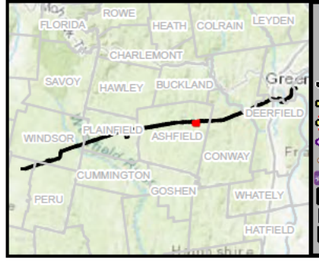

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LL#210 | LL#209 | LL#211 | LL#212 | LL#214 | LL#215 | LL#216 | LL#213

ASHFIELD

PH 1687

AS-W66 | AS-W65 | AS-W67 | AS-W68

Bear River

312 LINE | 1231 LINE | 1242 LINE

36156 | 36155 | 31071 | 31072 | 31073

25206A | 25206 | 25207A | 25207 | 25208A | 25208

TEMPORARY WETLAND MATTING 3,981 SF

PROPOSED 2021 LINE 312 WORK

PROPOSED 2021 LINE 312 WORK

TEMPORARY WETLAND MATTING 3,559 SF

100' BUFFER TREE REMOVAL 1,448 SF

200' RIVERFRONT TREE REMOVAL 4,676 SF

100' BUFFER TREE REMOVAL 1,102 SF

BLSF TREE REMOVAL 2,887 SF

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 4,197 SF TO BE PERMITTED TEMPORARY GRAVEL FOOTPRINT IN RIVERFRONT 2,085 SF. 2,085 SF IN BUFFER ZONE AND 2,085 SF OF RIVERFRONT AREA TO BE RESTORED POST CONSTRUCTION.

200' RIVERFRONT TREE REMOVAL 1,547 SF

ELEVATED AREA GRADING 6,554 SF IN 100' BUFFER AND 200' RIVERFRONT AREA. RESTORED POST CONSTRUCTION.

Resource Areas Reviewed:
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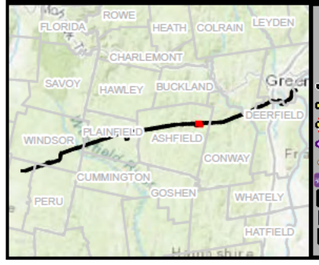

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Ashfield, MA

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ASHFIELD

APPROXIMATE LIMITS OF ENHANCEMENT AREA

PROPOSED 2021 LINE 312 WORK

PROPOSED 2021 LINE 312 WORK

LL#211

SPAN STREAM TEMPORARY WETLAND MATTING 565 SF

MODERATE QUALITY TURTLE NESTING HABITAT IDENTIFIED IN 2019.

TO BE PERMITTED TEMPORARY GRADING IN RIVERFRONT 6,827 SF. GRADE & RESTORE POST CONSTRUCTION.

APPROXIMATE LIMITS OF ENHANCEMENT AREA

820' 810' 800' 790' 780' 770' 760' 850' 840' 830' 880' 870' 860'

AS-W70 AS-W69 AS-W72 AS-W73 AS-W71 AS-W71 AS-W72

312 LINE 1242 LINE 1231 LINE

36154 36154 36153 36152

25209 31070 25210 31069 31068

Bear River

100' BUFFER TREE REMOVAL 1,448 SF

200' RIVERFRONT TREE REMOVAL 4,876 SF

100' BUFFER TREE REMOVAL 1,102 SF

NO TREE REMOVALS ON RIVER BANK. TREE LIMBING ONLY.

WETLAND TREE REMOVAL 3,256 SF

200' RIVERFRONT TREE REMOVAL 2,194 SF

100' BUFFER TREE REMOVAL 346 SF

200' RIVERFRONT TREE REMOVAL 1,057 SF

LL#217

PH 1687

BLSF TREE REMOVAL 2,887 SF

100' BUFFER TREE REMOVAL 1,762 SF

LL#216

BLSF TREE REMOVAL 5,330 SF

Resource Areas Reviewed:
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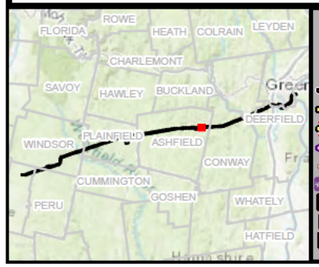

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TO BE PERMITTED TEMPORARY GRADING IN BUFFER ZONE 3,661 SF. 3,661 SF IN BUFFER ZONE TO BE RESTORED POST CONSTRUCTION.

TEMPORARY WETLAND MATTING 2,162 SF.

TO BE PERMITTED TEMPORARY GRAVEL FOOTPRINT IN BUFFER ZONE 548 SF. GRADE AND RESTORE POST-CONSTRUCTION.

ASHFIELD

TEMPORARY WETLAND MATTING 14,219 SF

TEMPORARY WETLAND MATTING 35 SF

SPAN STREAM TEMPORARY WETLAND MATTING 67 SF

SPAN STREAM TEMPORARY WETLAND MATTING 336 SF

LL#218

ACCESS FROM PFERSICK RD

880' 870' 860' 850' 840' 830' 820' 810' 800' 790' 780' 770' 760' 750' 740'

36152 36151 31068 25211 25212 31067 31066

AS-W74 AS-W76 AS-W77 AS-W75 AS-W78

1242 LINE 1231 LINE 312 LINE

LL#219

G

100' BUFFER TREE REMOVAL 981 SF

LL#217

SPAN STREAM WETLAND TREE REMOVAL 119 SF

WETLAND TREE REMOVAL 727 SF

100' BUFFER TREE REMOVAL 306 SF

WETLAND TREE REMOVAL 531 SF

WETLAND TREE REMOVAL 442 SF

PH 1687

WETLAND TREE REMOVAL 528 SF

LL#220

SIDELINE TRIMMING

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)



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- W-1 Wetland ID

1 inch = 100 feet
0 50 100
Feet

*FOOTPRINTS OF EXISTING WORK PADS WERE OBTAINED IN JULY 2020 AND SHOULD BE FIELD VERIFIED FOR ACCURACY

LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: July 7, 2022

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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ASHFIELD

TEMPORARY WETLAND MATTING 678 SF

TEMPORARY WETLAND MATTING 735 SF

LL#218

36150

25213A

25213

31066

31065

AS-W79

AS-W80

312 LINE

1242 LINE

1231 LINE

36149

36148

25214

31064

PFERSICK RD

LL#218

WETLAND TREE REMOVAL 482 SF

PH 1687

100' BUFFER TREE REMOVAL 206 SF

LL#219

LL#221

G

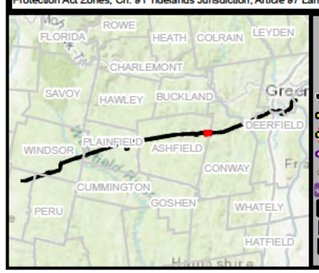
100' BUFFER TREE REMOVAL 1,416 SF

SIDELINE TRIMMING

LL#220

LL#222

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)



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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: July 7, 2022

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SPAN STREAM TEMPORARY WETLAND MATTING 450 SF

MODERATE QUALITY TURTLE NESTING HABITAT AS IDENTIFIED BY GZA 2019 FIELD SURVEY.

CONWAY

LL#226 LL#227 LL#228 LL#229 LL#230 LL#231 LL#232 LL#233 LL#235 LL#236

S SHIRKSHIRE RD

SHELBURNE FALLS RD

Bear River

Pea Brook

36143 36142

25220 31057

25221 31056

312 LINE

1231 LINE

1242 LINE

CO-W3 CO-W4 CO-W5 CO-W6 CO-W7 CO-W8 CO-W9 CO-W10 CO-W11

200' RIVERFRONT TREE REMOVAL 2,528 SF

100' BUFFER TREE REMOVAL 509 SF

100' BUFFER TREE REMOVAL 495 SF

200' RIVERFRONT TREE REMOVAL 1,232 SF

100' BUFFER TREE REMOVAL 1,713 SF

WETLAND TREE REMOVAL 771 SF

100' BUFFER TREE REMOVAL 1,761 SF

PH 1687

WETLAND TREE REMOVAL 304 SF

100' BUFFER TREE REMOVAL 662 SF

200' RIVERFRONT TREE REMOVAL 2,069 SF

100' BUFFER TREE REMOVAL 354 SF

200' RIVERFRONT TREE REMOVAL 1,699 SF

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)



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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Conway, MA

Date: July 7, 2022

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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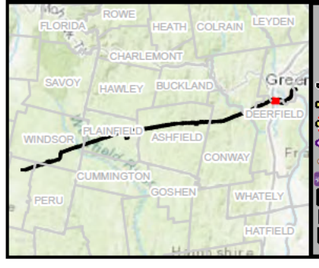
LL#297 LL#300
LL#299
LL#301
LL#302
LL#294
GREENFIELD
LL#303
GREENFIELD LANDFILL
LL#294
CUMBERLAND SUBSTATION
12027
12027
1231 LINE
12026
1242 LINE
1361 LINE
12025
25271
25272
25273
GR-W11
GR-W1
LL#295
LL#293
PH 2084
GR-W12
LL#291
Deerfield River
LL#316

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)



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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Greenfield, MA

Date: July 7, 2022

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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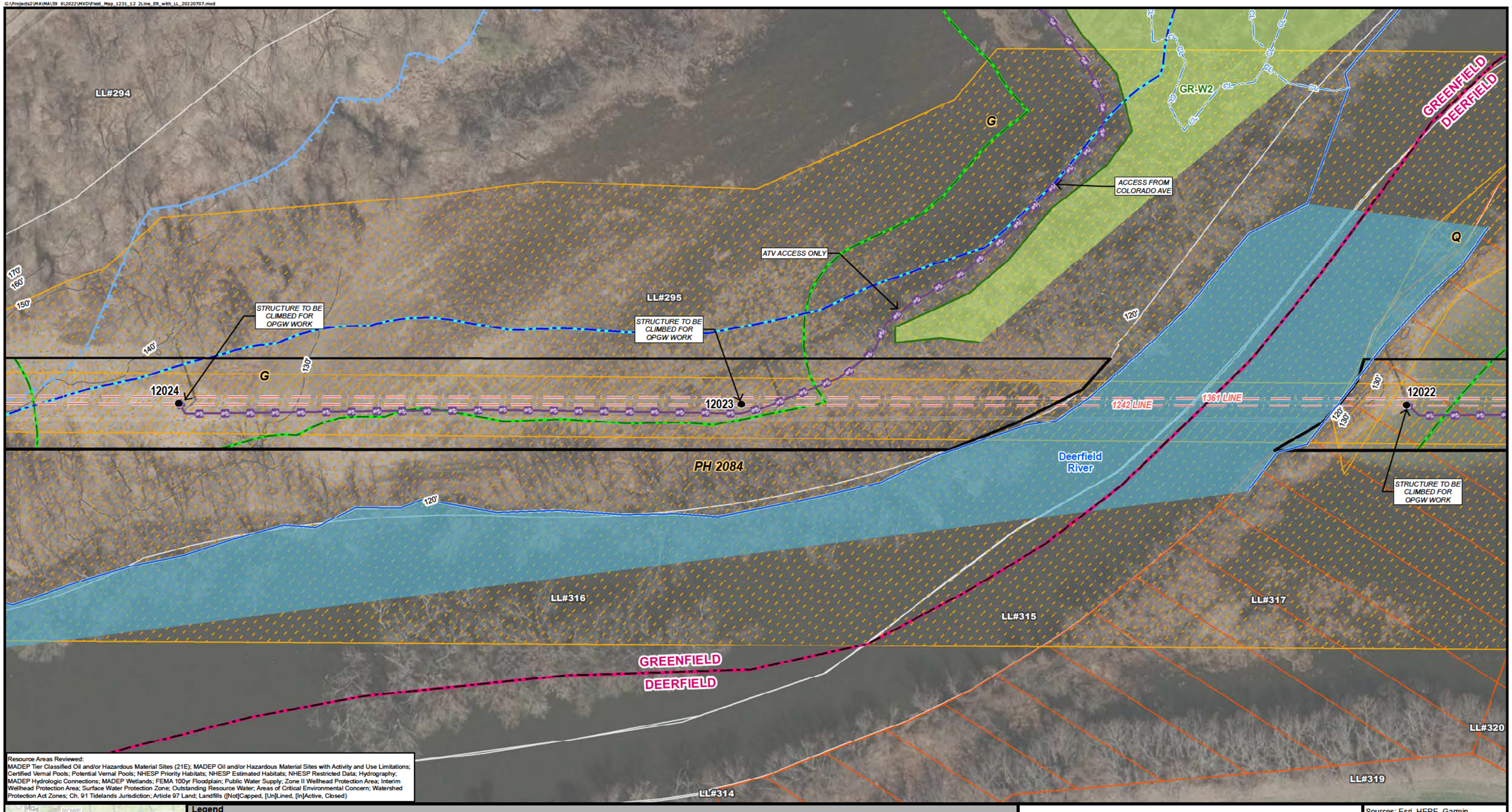

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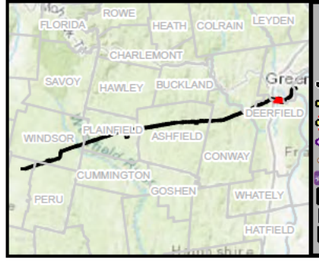

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Deerfield & Greenfield, MA

Date: July 7, 2022

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GREENFIELD LANDFILL

LL#303

LL#294

LL#295

LL#451

COLORADO AVE

G

LL#313

GR-W5

LL#312

GR-W4

GR-W3

ATV ACCESS ONLY

PH 2084

GR-W2

LL#316

LL#315

GREENFIELD

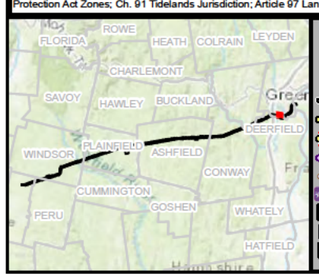
DEERFIELD

LL#317

LL#320

G

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)



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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Deerfield & Greenfield, MA
Page 94-1 of 102
Date: July 7, 2022

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GR-W2

LL#295

LL#316

GREENFIELD
DEERFIELD

LL#315

ENTIRE PAGE
IS IN FLOODPLAIN

Q

120'

LL#317

130'

12022

12021

12020

STRUCTURE TO BE CLIMBED FOR OPGW WORK

STRUCTURE TO BE CLIMBED FOR OPGW WORK

STRUCTURE TO BE CLIMBED FOR OPGW WORK

LL#320

LL#325

PH 2084

GREENFIELD
DEERFIELD

120'

LL#324

120'

130'

Deerfield River

LL#323

1242 LINE

1361 LINE

LL#326

G

LL#322

Q

GREENFIELD
DEERFIELD

ATV ACCESS ONLY

ACCESS FROM POGUES HOLE RD

LL#321

Resource Areas Reviewed:
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- 2ft Contours
- A Rare Species Code/ Priority Habitat ID
- W-1 Wetland ID

1 inch = 100 feet
0 50 100
Feet

*FOOTPRINTS OF EXISTING WORK PADS WERE OBTAINED IN JULY 2020 AND SHOULD BE FIELD VERIFIED FOR ACCURACY

LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Deerfield & Greenfield, MA

Date: July 7, 2022

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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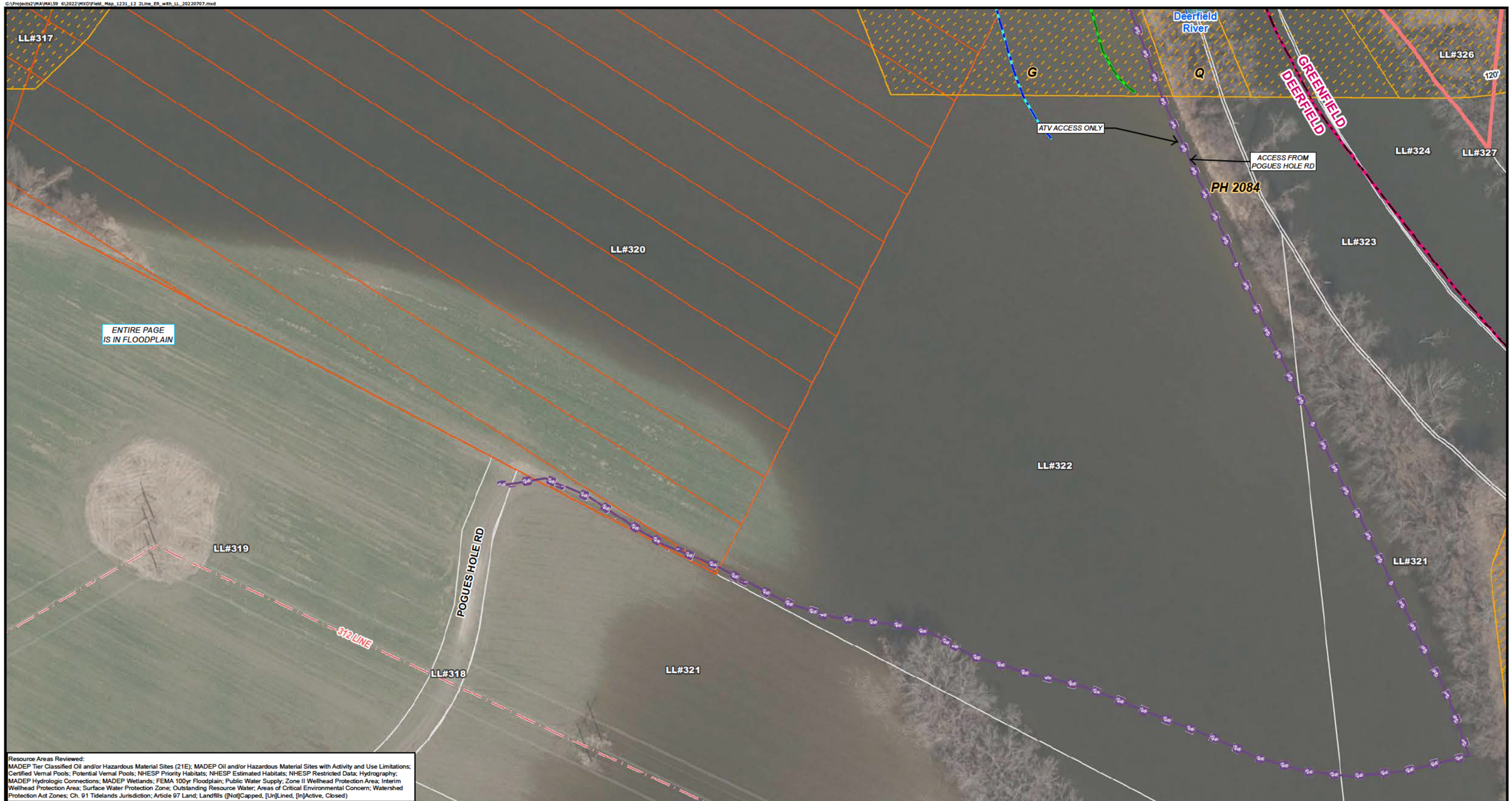
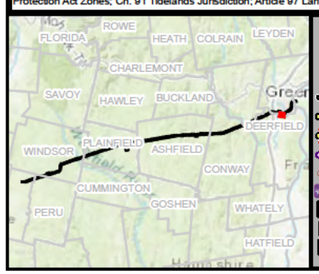


Resource Areas Reviewed:
MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Hydrography; 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)



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Deerfield & Greenfield, MA
Page 95-1 of 102
Date: July 7, 2022

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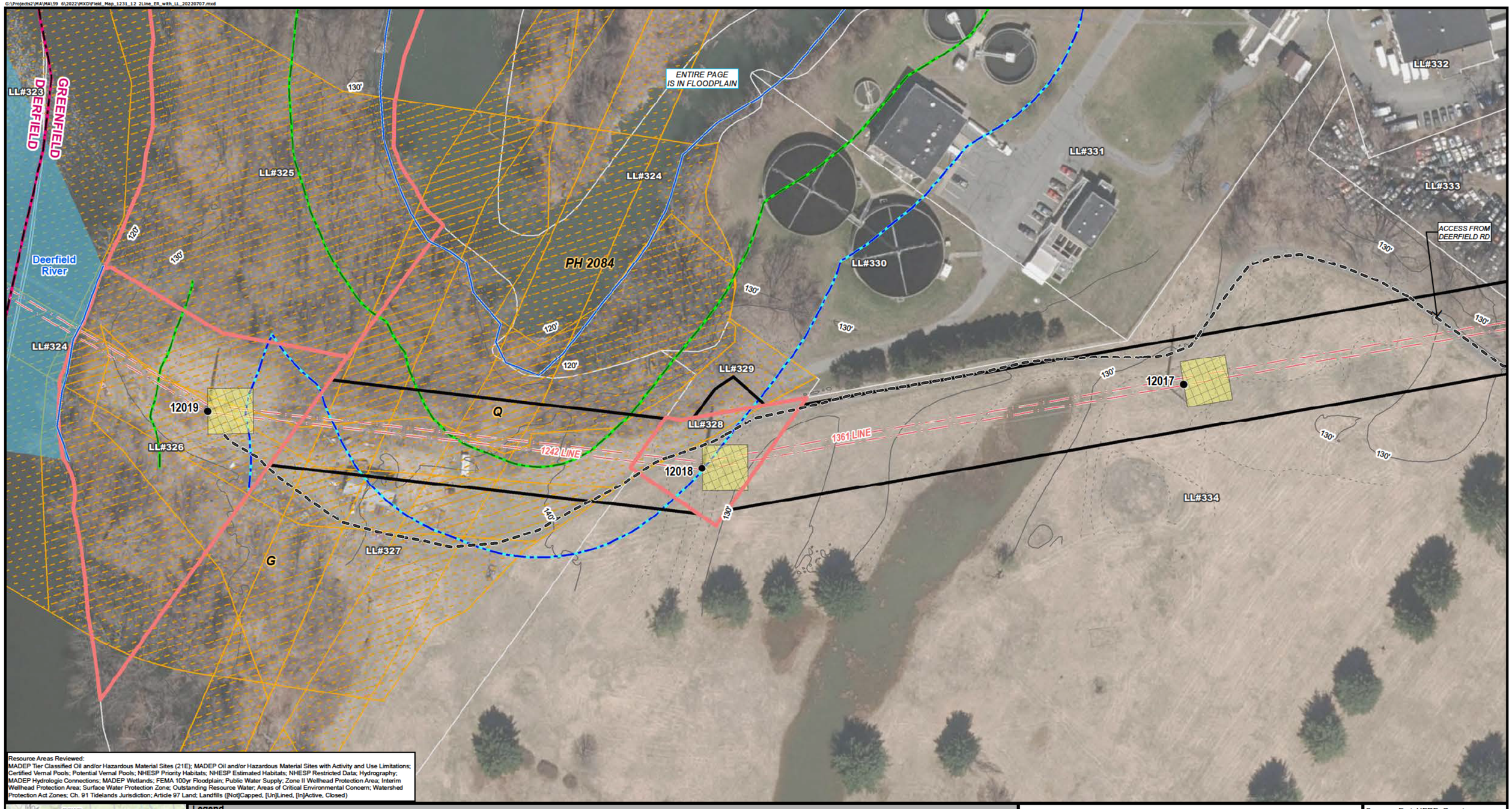

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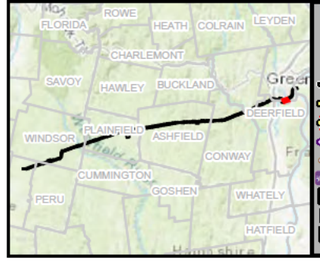

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Attachment 8

Habitat Enhancement Plan

OXBOW ASSOCIATES, INC.

Wetlands Delineation & Permitting Wildlife Studies Herpetology Vernal Pool Ecology Botany Aerial Imagery

Wood Turtle (*Glyptemys insculpta*) Habitat Enhancement Plan

Eversource – Lines 1231 and 1242 Reconductor & Structure Replacement Project
Hinsdale to Montague
(NHESP File # 21-39898)



October 3, 2022

Prepared for:

NSTAR Electric Company dba Eversource
107 Selden Street
Berlin CT 06037

Prepared by:
Oxbow Associates, Inc.
P.O. Box 971
Acton, MA 01720

Wood Turtle Habitat Enhancement Plan

In accordance with NHESP File # 21-39898, Oxbow Associates (OA) has prepared this Turtle Habitat Enhancement Plan as part of a long-term Net Benefit to the conservation of the State-listed wood turtle (as required in 321 CMR 10.23(5) under the Massachusetts Endangered Species Act (MESA)).

Areas Subject to the Habitat Enhancement Plan

As shown in the Project mapping provided in Attachment A (Map Pages 43 – 45, 64 and 66), there are two main areas (i.e., Focal Areas 7 and 9) subject to the Habitat Enhancement Plan:

- Area 7: Located within the managed ROW within the Swift River and Billings Brook complex in the Towns of Plainfield and Ashfield
- Area 9: Located within the managed ROW within the Bear River basin in the Town of Ashfield.

The site-specific radio-telemetric habitat use data collected during 2021 and 2022 active seasons has provided valuable information to enhance nesting habitat in Areas 7 and 9. Other components of the habitat enhancement efforts include expanding existing nesting areas and converting disturbed land in construction footprints to nesting habitats for turtles with oversight by a Turtle Biologist.

Proposed Wood Turtle Habitat Enhancement Measures

The seven areas proposed for nesting habitat enhancement measures within Area 7 and Area 9 are depicted on Project mapping (Attachment A: Map Pages 43 – 45, 64, 66). Construction of nesting habitat enhancement areas is scheduled to be completed during the turtle non-active season between the end of 2022 and beginning of 2023.

Beginning in the spring of 2023, following construction of the habitat enhancement areas, qualified Turtle Biologists will conduct six, four-person nesting field surveys and two (diurnal) inspections of the manufactured nesting areas. If observed, up to twelve, adult female wood turtles will be tagged and monitored. Transmitters will be replaced as needed and removed at the conclusion of the 2023 season.

Completed nests identified during field surveys will be enclosed with predator exclusion screens. Abandoned or depredated nests identified during field surveys will be documented and GPS located. If approved by the NHESP, OA will remove the nest screens approximately one month after deposition and if construction is complete.

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In the summer of 2024, OA will conduct one survey of the created and historical nesting sites in July (two people for one day). This field work will include searches for depredated nests or abandoned chambers from the end of the season. Any evidence of nesting or wood turtle activity will be photo-documented, GPS located, and other ecological details will be entered into field notes. OA will provide a summary report at the end of 2024.

OA believes that this combination of field studies, nesting habitat enhancement, a monitoring field study, and protection plan measures (provided under a separate cover), will assure a *de minimus* impact and "Net Benefit" for the affected species.

Attachment A

Lines 1231 and 1242 Reconductor and Structure Replacement Project
Environmental Resources Map Pages

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PLAINFIELD

LL#133

LL#135

LL#137

LL#136

LL#138

1620'

1610'

1580'

1570'

1550'

1540'

1530'

1510'

1500'

1490'

1480'

1600'

APPROXIMATE LIMITS OF ENHANCEMENT AREA

APPROXIMATE LIMITS OF ENHANCEMENT AREA

APPROXIMATE LIMITS OF ENHANCEMENT AREA

36210

36209

36208

25152

31129

25153

31128

31127

25154

312 LINE

1242 LINE

1231 LINE

PL-W50

PL-W51

PL-W52

PL-W53

PL-W54

PH 1714

G

ACCESS FROM GRANT ST

SIDELINE TRIMMING

TEMPORARY WETLAND MATTING 455 SF

SIDELINE TRIMMING

SIDELINE TRIMMING

TEMPORARY WETLAND MATTING 7,733 SF

SIDELINE TRIMMING

Resource Areas Reviewed:
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1 inch = 100 feet
0 50 100
Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Plainfield, MA

Date: July 7, 2022

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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PLAINFIELD

ASHFIELD

APPROXIMATE LIMITS OF ENHANCEMENT AREA

TEMPORARY WETLAND MATTING 1,394 SF

TEMPORARY WETLAND MATTING 5,189 SF

TEMPORARY WETLAND MATTING 3,892 SF

LL#140

AS-W1A

Billings Brook

AS-W1

AS-W2

36207

36206

36205

312 LINE

1231 LINE

1242 LINE

PH 1714

31127

25154

PL-W54

PL-W55

AS-W1

25155

31126

25156

31125

LL#138

LL#139

G

SIDELINE TRIMMING

ACCESS FROM GRANT ST

TEMPORARY WETLAND MATTING 239 SF

TEMPORARY WETLAND MATTING 7,733 SF

100' BUFFER TREE REMOVAL 376 SF

SIDELINE TRIMMING

TEMPORARY WETLAND MATTING 1,796 SF

100' BUFFER TREE REMOVAL 1,112 SF

WETLAND TREE REMOVAL 2,103 SF

SIDELINE TRIMMING

TEMPORARY WETLAND MATTING 18,508 SF

200' RIVERFRONT TREE REMOVAL 829 SF

Resource Areas Reviewed:
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ASHFIELD

LL#140

APPROXIMATE LIMITS OF ENHANCEMENT AREA

TEMPORARY WETLAND MATTING 3,895 SF

TEMPORARY WETLAND MATTING 3,974 SF

TEMPORARY WETLAND MATTING 905 SF

400 SF ELEVATED AREA TO BE GRADED FOR MAT PLACEMENT.

ACCESS FROM WATSON SPRUCE CORNER RD

1470'

1460'

1450'

1440'

1430'

1420'

1410'

G

AS-W2

AS-W2A

AS-W3

AS-W4

AS-W5

AS-W6

AS-W7

AS-W8

36205

36204

36203

312 LINE

1242 LINE

1231 LINE

25157

31124

25158

31123

Billings Brook

Swift River

PH 1714

LL#139

LL#141

200' RIVERFRONT TREE REMOVAL 368 SF

100' BUFFER TREE REMOVAL 902 SF

WETLAND TREE REMOVAL 1,462 SF

WETLAND TREE REMOVAL 150 SF

100' BUFFER TREE REMOVAL 1,172 SF

BLSF TREE REMOVAL 2,455 SF

100' BUFFER TREE REMOVAL 177 SF

100' BUFFER TREE REMOVAL 609 SF

WETLAND TREE REMOVAL 788 SF

100' BUFFER TREE REMOVAL 300 SF

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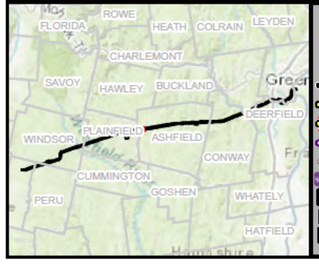

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ASHFIELD

LL#283

LL#209

LL#215

LL#207

LL#208

LL#212

LL#214

LL#213

PH 1687

AS-W63

Bear River

AS-W62

AS-W64

DELINEATED RARE PLANT POPULATION

AVOID EXISTING BORROW PIT

APPROXIMATE LIMITS OF ENHANCEMENT AREAS

312 LINE

1231 LINE

1242 LINE

36158

36157

25205

31074

25206A

25206

31073

31075

GRADE, MAT, RESTORE WESTERN END OF WORK PAD.

ACCESS TO BE IMPROVED WITH GRAVEL. SELECT TREE REMOVAL/TRIMMING AS NECESSARY TO ALLOW EQUIPMENT ACCESS.

ACCESS FROM BELDINGVILLE RD

SOUTH BEAR RIVER RD

100' BUFFER TREE REMOVAL 3,504 SF

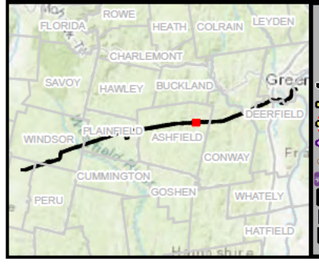
200' RIVERFRONT TREE REMOVAL 3,504 SF

BLSF TREE REMOVAL 2,595 SF.

SIDELINE TRIMMING

SIDELINE TRIMMING

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)



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- Headwall
- Culvert
- Gate
- 10ft Contours
- 2ft Contours
- A — Rare Species Code/ Priority Habitat ID
- W-1 — Wetland ID

1 inch = 100 feet
0 50 100
Feet

*FOOTPRINTS OF EXISTING WORK PADS WERE OBTAINED IN JULY 2020 AND SHOULD BE FIELD VERIFIED FOR ACCURACY

LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: July 7, 2022

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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PH 1687

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LL#214

LL#208

LL#209

LL#212

LL#213

SOUTH BEAR RIVER RD

ACCESS TO BE IMPROVED WITH GRAVEL. SELECT TREE REMOVAL/TRIMMING AS NECESSARY TO ALLOW EQUIPMENT ACCESS.

MURRAY RD

ASHFIELD

BELDINGVILLE RD

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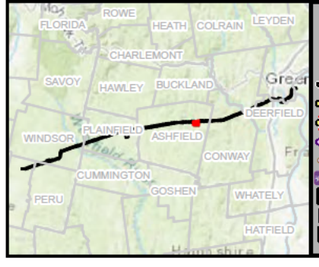

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA
Page 64-1 of 102
Date: July 7, 2022

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LL#210 | LL#209 | LL#211 | LL#212 | LL#214 | LL#215 | LL#216 | LL#213

ASHFIELD

PH 1687

AS-W66 | AS-W65 | AS-W67 | AS-W68

Bear River

312 LINE | 1231 LINE | 1242 LINE

36156 | 36155 | 31071 | 31072 | 31073

25206A | 25206 | 25207A | 25207 | 25208A | 25208

TEMPORARY WETLAND MATTING 3,981 SF

PROPOSED 2021 LINE 312 WORK

PROPOSED 2021 LINE 312 WORK

TEMPORARY WETLAND MATTING 3,559 SF

100' BUFFER TREE REMOVAL 1,448 SF

200' RIVERFRONT TREE REMOVAL 4,676 SF

100' BUFFER TREE REMOVAL 1,102 SF

BLSF TREE REMOVAL 2,887 SF

TO BE PERMITTED GRAVEL FOOTPRINT IN BUFFER ZONE 4,197 SF TO BE PERMITTED TEMPORARY GRAVEL FOOTPRINT IN RIVERFRONT 2,085 SF. 2,085 SF IN BUFFER ZONE AND 2,085 SF OF RIVERFRONT AREA TO BE RESTORED POST CONSTRUCTION.

200' RIVERFRONT TREE REMOVAL 1,547 SF

ELEVATED AREA GRADING 6,554 SF IN 100' BUFFER AND 200' RIVERFRONT AREA. RESTORED POST CONSTRUCTION.

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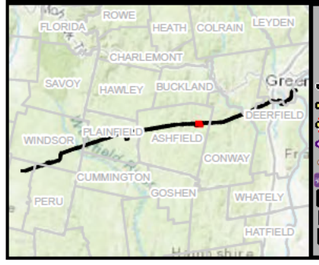

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Feet

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LINES 1231 AND 1242 RECONDUCTOR AND STRUCTURE REPLACEMENT PROJECT

Environmental Resources Map

Ashfield, MA

Date: July 7, 2022

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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ASHFIELD

APPROXIMATE LIMITS OF ENHANCEMENT AREA

PROPOSED 2021 LINE 312 WORK

PROPOSED 2021 LINE 312 WORK

LL#211

SPAN STREAM TEMPORARY WETLAND MATTING 565 SF

MODERATE QUALITY TURTLE NESTING HABITAT IDENTIFIED IN 2019.

TO BE PERMITTED TEMPORARY GRADING IN RIVERFRONT 6,827 SF. GRADE & RESTORE POST CONSTRUCTION.

APPROXIMATE LIMITS OF ENHANCEMENT AREA

820' 810' 800' 790' 780' 770' 760' 850' 840' 830' 880' 870' 860'

AS-W70 AS-W69 AS-W72 AS-W73 AS-W71 AS-W71 AS-W72

312 LINE 1242 LINE 1231 LINE

36154 36154 36153 36152

25209 31070 25210 31069 31068

Bear River

100' BUFFER TREE REMOVAL 1,448 SF

200' RIVERFRONT TREE REMOVAL 4,876 SF

100' BUFFER TREE REMOVAL 1,102 SF

NO TREE REMOVALS ON RIVER BANK. TREE LIMBING ONLY.

WETLAND TREE REMOVAL 3,256 SF

200' RIVERFRONT TREE REMOVAL 2,194 SF

100' BUFFER TREE REMOVAL 346 SF

200' RIVERFRONT TREE REMOVAL 1,057 SF

LL#217

PH 1687

BLSF TREE REMOVAL 2,887 SF

100' BUFFER TREE REMOVAL 1,762 SF

LL#216

BLSF TREE REMOVAL 5,330 SF

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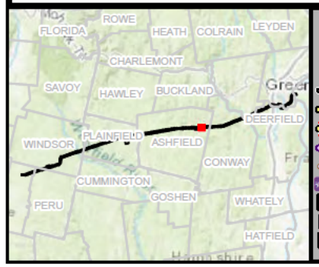

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