

**MEISNER BREM CORPORATION**  
142 LITTLETON ROAD, WESTFORD, MA 01886

*Notice of Intent*  
*32 Harvard Street*  
*Reading, Massachusetts*

## **NOTICE OF INTENT**

*32 Harvard Street*  
*Reading, Massachusetts*

*November 7, 2024*

PREPARED FOR:

Eleanor Shonkoff  
*32 Harvard Street*  
*Reading, MA 01867*

PREPARED BY:

**MEISNER BREM CORPORATION**  
*142 Littleton Road*  
*Westford, MA 01886*

*Notice of Intent*  
*32 Harvard Street*  
*Reading, Massachusetts*

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BORDERING VEGETATED WETLAND DETERMINATION FORMS

*Notice of Intent*  
*32 Harvard Street*  
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## **Section 1.0 Narrative**

This notice of intent filing is for construction activities within the 100-foot buffer zone to a bordering vegetated wetland at 32 Harvard Street in Reading, Massachusetts. The property presently consists of an existing single family house, deck, shed, paved driveway, gravel fire pit, and lawn. The wetland is located at the rear of the property. The delineation of the wetland was performed in the spring of 2024 by Leah Basbanes of Basbanes Wetland Consulting.

The proposed work consists of an addition to the existing home. The eastern portion of the house will be torn-down and re-built, with a small expansion (40 SF). A second story will then be added onto the house. The existing deck will be removed, and replaced with a screen porch and smaller deck. The existing paved driveway will be widened by 5 feet to allow for a second vehicle to park in the driveway. The existing brick walkway in the front of the house will be removed, and two paver walkways will be added from the driveway to house.

The existing shed at the rear of the property will be removed. This shed is partially within the wetland. The gravel fire pit near the wetland will also be removed. A new fire pit area will be created near the back of the house, further from the wetland.

The rear yard currently experiences frequent ponding. This is due to the grade of the yard, the proximity to the wetland, and the discharge of a sump pump from the abutting 26 Harvard St property. Fine grading is proposed in the rear yard to alleviate the ponding as much as possible. The yard will be filled 3 to 6 inches in order to pitch flow toward the wetland.

The net result of the work described above is a small increase in the total impervious area (279 SF increase). Removal of the shed, gravel pit, and deck will relocate impervious and near-impervious areas further from the wetland and allow for greater compliance with the 35 ft “no build” requirement.

All of the work described above is considered to be Category 1a “*Work on a single-family lot*”. No work is proposed within a resource area.

This filing is required pursuant to the Massachusetts Wetland Protection Act (M.G.L. Ch. 130, S. 40) and the regulations promulgated therewith (310 CMR 10.00, et. seq.), as well as the Town of Reading General Bylaws and Wetland Protection Regulations.

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**CONSTRUCTION SEQUENCE**

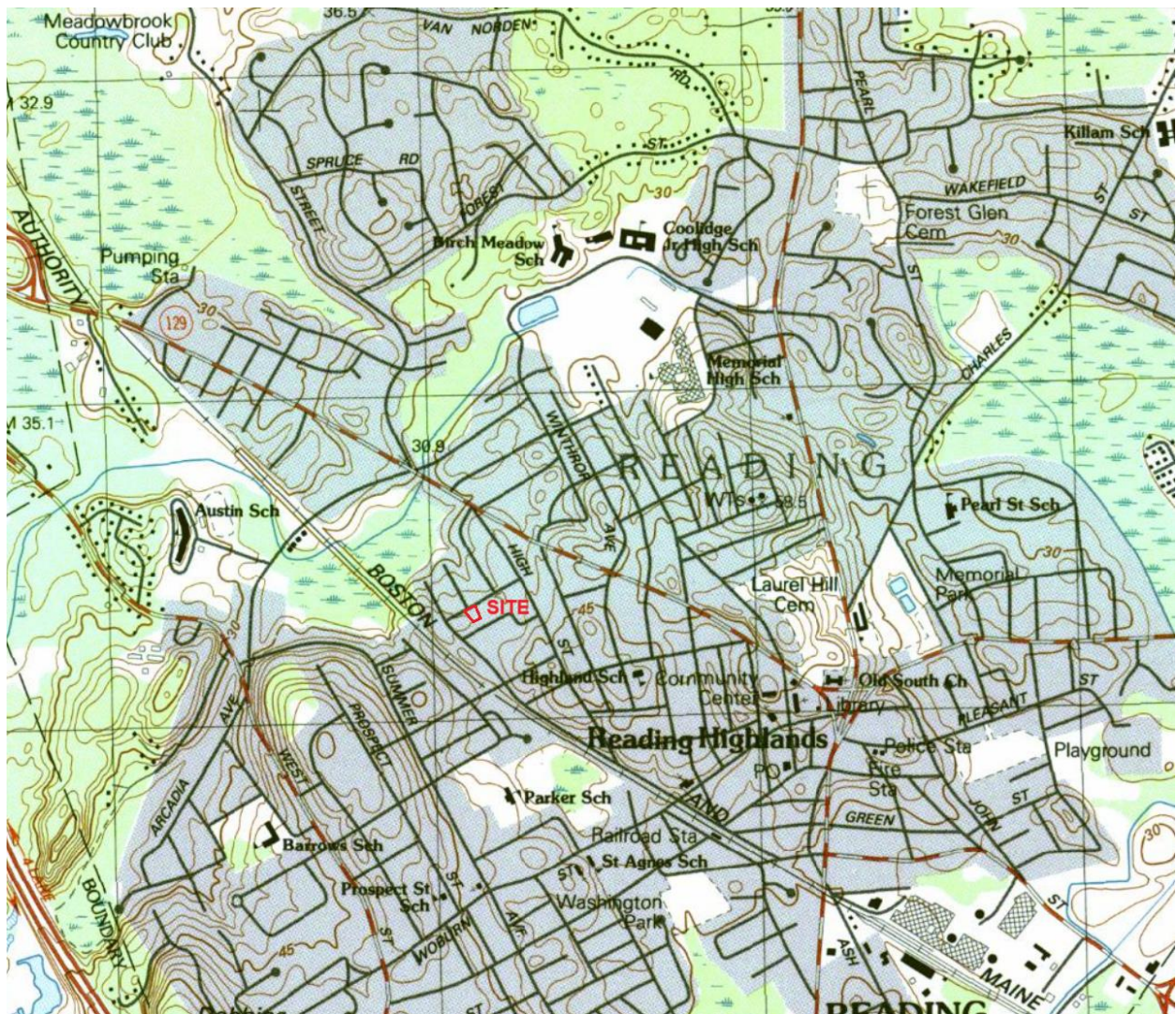
- All siltation and erosion control measures shall be placed as indicated on the attached plan prior to the commencement of any construction
- Demolition: Removal of existing shed, gravel pit, deck, and walkway. Removal of existing portion of house that is to be re-built
- Construction of house addition, screen porch, new deck.
- Expansion of driveway and installation of paver walkways, and fire pit.
- Re-grading of rear lawn area
- Restore all disturbed areas and loam and seed with standard grass mixtures.

**NOTE: THE CONTRACTOR SHALL CHECK AND  
MAINTAIN ALL EROSION CONTROL MEASURES ON  
SITE THROUGHOUT THE ENTIRE PROJECT, UNTIL  
ALL DISTURBED AREAS ARE STABILIZED**

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**Section 2.0 Maps**

**USGS MAP**



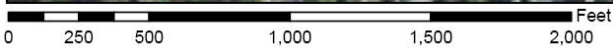
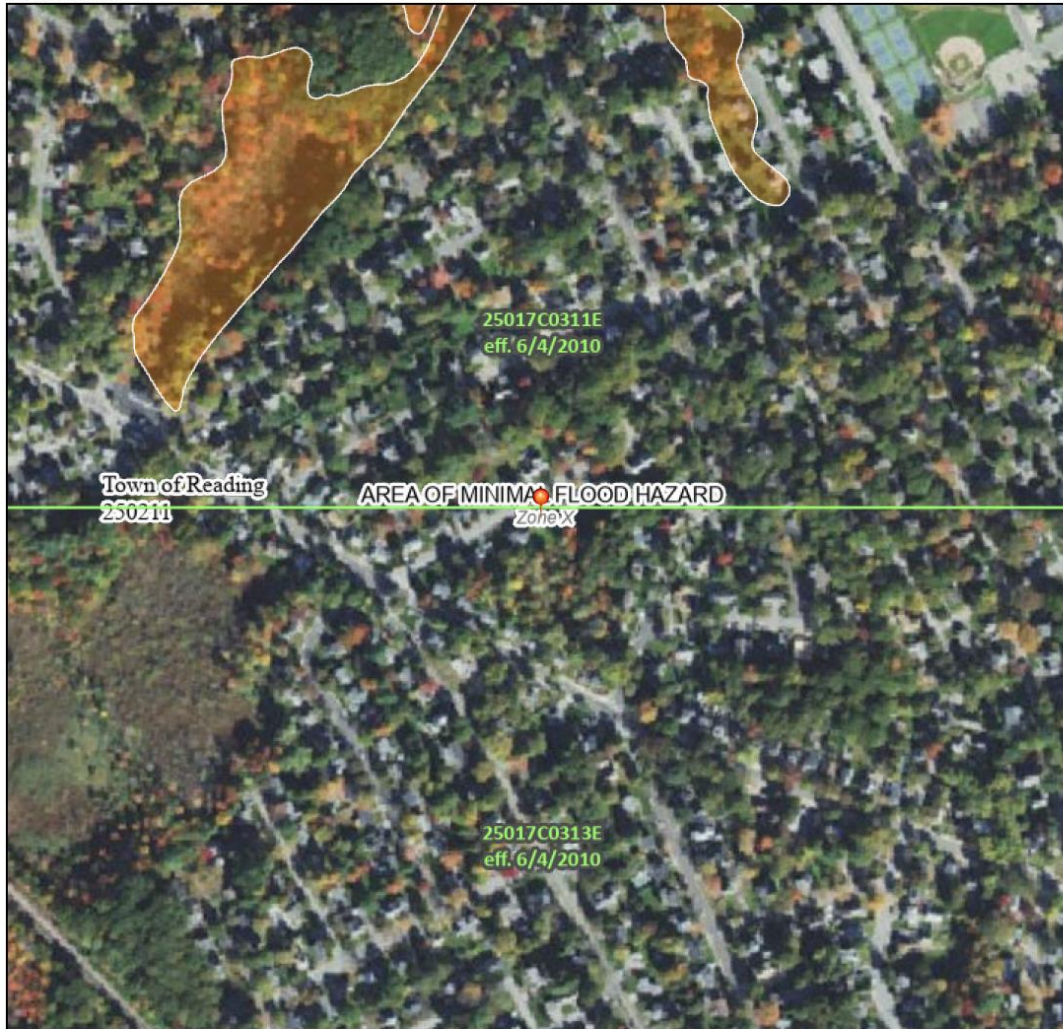
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**FLOOD MAP (FEMA)**

National Flood Hazard Layer FIRMette



71°7'12"W 42°32'6"N



1:6,000

71°6'35" W 42°31'39" N

Basemap Imagery Source: USGS National Map 2023

**Legend**

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

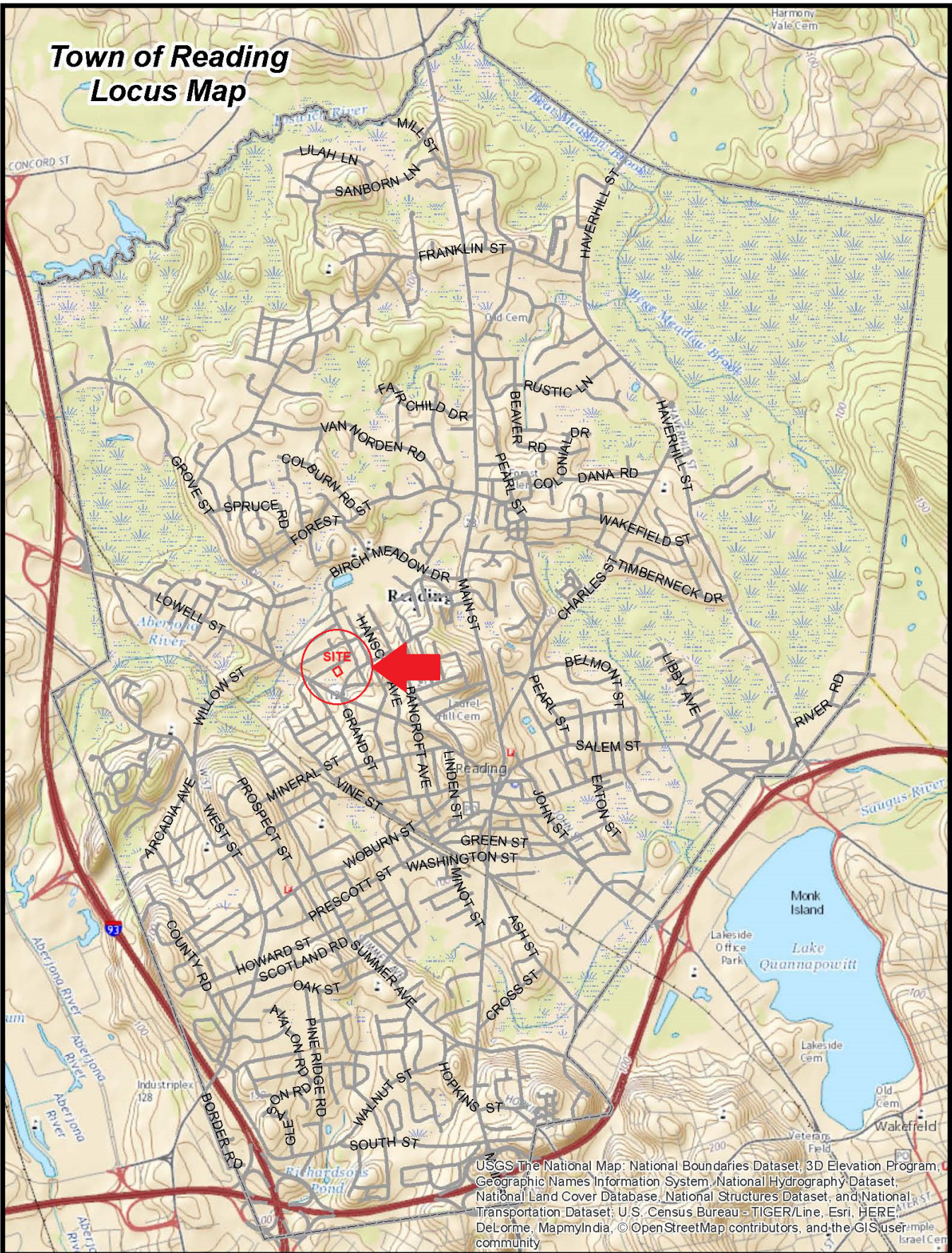
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, AB9
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
	Profile Baseline	
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

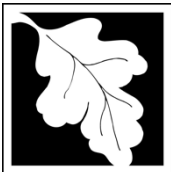
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/31/2024 at 9:08 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

# Town of Reading Locus Map



USGS The National Map: National Boundaries Dataset, 3D Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community



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

**WPA Form 3 – Notice of Intent**

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Reading

City/Town

**Important:**

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



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

**A. General Information**

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

32 Harvard Street  
 a. Street Address

Reading  
 b. City/Town

01867  
 c. Zip Code

Latitude and Longitude:  
 42.531119 N  
 d. Latitude

71.148 W  
 e. Longitude

Map 26  
 f. Assessors Map/Plat Number

Lot 117  
 g. Parcel /Lot Number

2. Applicant:

Eleanor  
 a. First Name

Shonkoff  
 b. Last Name

N/A  
 c. Organization

32 Harvard Street  
 d. Street Address

Reading  
 e. City/Town

MA  
 f. State

01867  
 g. Zip Code

336-407-4198  
 h. Phone Number

i. Fax Number

ebate79@gmail.com  
 j. Email Address

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

Same  
 a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Ian  
 a. First Name

Ainslie, PE  
 b. Last Name

Meisner Brem Corporation  
 c. Company

142 Littleton Rd, Suite 16  
 d. Street Address

Westford  
 e. City/Town

MA  
 f. State

01886  
 g. Zip Code

978-692-1313  
 h. Phone Number

i. Fax Number

iana@meisnerbrem.com  
 j. Email address

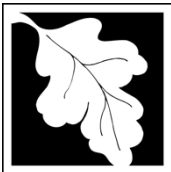
5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

\$110  
 a. Total Fee Paid

\$42.50  
 b. State Fee Paid

\$67.50  
 c. City/Town Fee Paid





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**A. General Information (continued)**

6. General Project Description:

Renovation of a single family house. A portion of the house will be re-built, a small addition to the footprint will be added, and a second story will be added. The driveway will be expanded and walkways will be re-configured. The rear yard of the house will be regraded slightly to resolve ponding issues. All of this work is located within buffer zone to a Bordering Vegetated Wetland.

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

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

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

- 1.  Yes  No      If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

Middlesex North

a. County

71178

c. Book

b. Certificate # (if registered land)

493

d. Page Number

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

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

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



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

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

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

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

2. Width of Riverfront Area (check one):

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

3. Total area of Riverfront Area on the site of the proposed project: \_\_\_\_\_ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
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5. Has an alternatives analysis been done and is it attached to this NOI?  Yes  No

6. Was the lot where the activity is proposed created prior to August 1, 1996?  Yes  No

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

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



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

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

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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	
	_____	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	
	_____	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	_____	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	

4.  Restoration/Enhancement  
If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

\_\_\_\_\_

a. square feet of BVW

\_\_\_\_\_

b. square feet of Salt Marsh

5.  Project Involves Stream Crossings

\_\_\_\_\_

a. number of new stream crossings

\_\_\_\_\_

b. number of replacement stream crossings



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## C. Other Applicable Standards and Requirements

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

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

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

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

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

b. Date of map \_\_\_\_\_

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

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

1.  Percentage/acreage of property to be altered:
  - (a) within wetland Resource Area \_\_\_\_\_ percentage/acreage
  - (b) outside Resource Area \_\_\_\_\_ percentage/acreage

2.  Assessor's Map or right-of-way plan of site

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

\* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

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



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

(c)  MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).  
 Make check payable to “Commonwealth of Massachusetts - NHESP” and **mail to NHESP** at above address

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

- (d)  Vegetation cover type map of site
- (e)  Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following

1.  Project is exempt from MESA review.  
 Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2.  Separate MESA review ongoing. a. NHESP Tracking # \_\_\_\_\_ b. Date submitted to NHESP \_\_\_\_\_

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

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?
- a.  Not applicable – project is in inland resource area only      b.  Yes     No

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

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

North Shore - Hull to New Hampshire border:

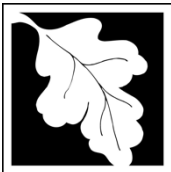
Division of Marine Fisheries -  
 Southeast Marine Fisheries Station  
 Attn: Environmental Reviewer  
 836 South Rodney French Blvd.  
 New Bedford, MA 02744  
 Email: [dmf.envreview-south@mass.gov](mailto:dmf.envreview-south@mass.gov)

Division of Marine Fisheries -  
 North Shore Office  
 Attn: Environmental Reviewer  
 30 Emerson Avenue  
 Gloucester, MA 01930  
 Email: [dmf.envreview-north@mass.gov](mailto:dmf.envreview-north@mass.gov)

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

- c.  Is this an aquaculture project?      d.  Yes     No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



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

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

**D. Additional Information**

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

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

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

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

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



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## D. Additional Information (cont'd)

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

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

Notice of Intent Plan - 32 Harvard Street

a. Plan Title

Meisner Brem Corporation

Ian Ainslie, PE

b. Prepared By

c. Signed and Stamped by

November 7, 2024

1"=20'

d. Final Revision Date

e. Scale

Shonkoff Residence - House Plans by Phoenix Architects

10/15/24

f. Additional Plan or Document Title

g. Date

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

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

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

8.  Attach NOI Wetland Fee Transmittal Form

9.  Attach Stormwater Report, if needed.

## E. Fees

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

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

308

11/12/24

2. Municipal Check Number

3. Check date

307

11/12/24

4. State Check Number

5. Check date

Eleanor

Shonkoff

6. Payor name on check: First Name

7. Payor name on check: Last Name



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

Provided by MassDEP:

**WPA Form 3 – Notice of Intent**

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

MassDEP File Number \_\_\_\_\_

Document Transaction Number \_\_\_\_\_

Reading \_\_\_\_\_

City/Town \_\_\_\_\_

**F. Signatures and Submittal Requirements**

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

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

<p>1. Signature of Applicant _____ <i>Eleanor Shonkoff</i></p>	<p>2. Date _____ <i>11.13.24</i></p>
<p>3. Signature of Property Owner (if different) _____ <i>Ch J Ainsie</i></p>	<p>4. Date _____ <i>11/14/24</i></p>
<p>5. Signature of Representative (if any) _____ <i>Ian Ainsie</i></p>	<p>6. Date _____</p>

**For Conservation Commission:**

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

**For MassDEP:**

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

**Other:**

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

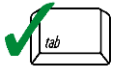
The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.





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

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



**A. Applicant Information**

1. Location of Project:

32 Harvard Street \_\_\_\_\_ Reading \_\_\_\_\_  
 a. Street Address b. City/Town  
 307 \_\_\_\_\_ \$42.50 \_\_\_\_\_  
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Eleanor \_\_\_\_\_ Shonkoff \_\_\_\_\_  
 a. First Name b. Last Name  
 N/A \_\_\_\_\_  
 c. Organization  
 32 Harvard Street \_\_\_\_\_  
 d. Mailing Address  
 Reading \_\_\_\_\_ MA \_\_\_\_\_ 01867 \_\_\_\_\_  
 e. City/Town f. State g. Zip Code  
 336-407-4198 \_\_\_\_\_ ebate79@gmail.com \_\_\_\_\_  
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

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

**B. Fees**

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

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

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

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

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

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

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

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



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

**B. Fees** (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
1	1	\$110	\$110

**Step 5/Total Project Fee:** \_\_\_\_\_

**Step 6/Fee Payments:**

Total Project Fee:	\$110
State share of filing Fee:	\$42.50
City/Town share of filing Fee:	\$67.50
	a. Total Fee from Step 5
	b. 1/2 Total Fee <b>less</b> \$12.50
	c. 1/2 Total Fee <b>plus</b> \$12.50

**C. Submittal Requirements**

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

Department of Environmental Protection  
 Box 4062  
 Boston, MA 02211

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

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

## Reading Wetlands Protection Bylaw Fee Calculation Form

Type of Activity	NOI Filing Fee	Calculated Fee
A. Each addition to or accessory use activity Associated with an existing single-family or Multi-family residential dwelling, including but not limited to driveways, sheds, swimming pools, athletic courts, additions to existing houses, grading, and landscaping	\$125.00 plus all applicable fees listed in lines F through K	\$125
B. Each new single-family dwelling, including associated driveway, utilities, grading, landscaping, and drainage structures	\$600.00 plus all applicable fees listed in lines F through K	
C. Each new multi-family dwelling	\$600.00 plus \$125.00 per unit located in any Resource Area or Buffer Zone, plus all applicable fees listed in lines F through K	
D. Each subdivision roadway, or other roadway, or driveway (other than for a single-family dwelling), and all associated drainage structures, utilities, grading, curbing, landscaping, and other associated work exclusive of dwellings	\$1,000.00 plus \$600.00 per house, plus all applicable fees listed in lines F through K	
E. Each commercial, industrial, institutional or other non-residential project	\$1,000.00 , plus all applicable fees listed in lines F through K	
F. Boundary delineation for any Resource Area	\$1.25 per linear foot of Resource Area boundary, up to a maximum of \$125 for a single-family lot and \$1,250 for any other lot.	
G. Temporary and /or permanent alteration of land within the Buffer Zone	\$1.25 per square foot of Buffer Zone altered for any temporary or permanent alteration within 25 feet of a Resource Area or any permanent structure within 35 feet of a Resource Area	1865 x \$1.25 = \$2,331.25
H. Work in Floodplain	\$1.25 per square foot of Floodplain temporarily or permanently altered outside of any other Resource Area and Buffer Zone	
I. Work in Vernal Pool habitat	\$11.00 per square foot of Vernal Pool habitat temporarily or permanently altered.	
J. Work in Freshwater Wetland, Wet Meadow, Bog, Swamp, Marsh, Creek, River, Stream, Pond, Lake, Land Under Waterbody	\$11.00 per square foot of Resource Area temporarily or permanently altered	
K. Work in Bank	\$11.00 per linear foot of Bank temporarily or permanently altered	
	<b>Total Fee Calculated</b>	<u>\$2456.25</u>



*Patriot Properties*

# Reading

10/10/2024

## Abutters List

10:53:33AM

**Filter Used:** DataProperty.AccountNumber in  
(5308,5286,5051,5168,5266,5143,5309,5049,5144,5291,5050,5140,5180,5535,5497,5495,5171,5169,5139,5314,5182,5288,5292,5141,5287,5310,5178,5170,5181,5142,5290,5285..

**Reading  
Abutters List**

**Subject Parcel ID: 32 HARVARD ST REPORT**

**Subject Property Location:**

ParcelID	Location	Owner	Co-Owner	Mailing Address	City	State	Zip
026.0-0000-0021.0	257 HIGH ST	MAURIELLO MARK S	MARYELLEN T MAURIELLO	257 HIGH ST	READING	MA	01867
026.0-0000-0022.0	218 LOWELL ST	SHEA DENNIS M	KAREN K SCHNELLER	218 LOWELL ST	READING	MA	01867
026.0-0000-0023.0	214 LOWELL ST	PALERMO MICHAEL P	SANDRA S PALERMO	214 LOWELL ST	READING	MA	01867
026.0-0000-0073.0	217 LOWELL ST	ELEGANTE VENTURES LLC		217 LOWELL ST LOT 1	READING	MA	01867
026.0-0000-0111.0	235 LOWELL ST	MCQUILLEN KAREN L	REBECCA A POULIN	235 LOWELL ST	READING	MA	01867
026.0-0000-0112.0	231 LOWELL ST	OCALLAGHAN DAVID A		231 LOWELL ST	READING	MA	01867
026.0-0000-0113.0	225 LOWELL ST	JEKNAVORIAN MARILYN P		225 LOWELL ST	READING	MA	01867
026.0-0000-0114.0	221 LOWELL ST	SOMERS MICHAEL W		221 LOWELL ST	READING	MA	01867
026.0-0000-0115.0	44 HARVARD ST	FLYNN JENNIFER L	MICHAEL K FLYNN	44 HARVARD ST	READING	MA	01867
026.0-0000-0116.0	38 HARVARD ST	KILBRIDE THOMAS A ETAL TRTEE	TAK AND KAK KILBRIDE REV	38 HARVARD STREET	READING	MA	01867
026.0-0000-0117.0	32 HARVARD ST	SHONKOFF ADAM	SHONKOFF ELEANOR TATE	32 HARVARD STREET	READING	MA	01867
026.0-0000-0140.0	43 HARTSHORN ST	VALENTE ALEXANDER R TRUSTEI	VALENTE BARBARA B TRUS	43 HARTSHORN STREET	READING	MA	01867
026.0-0000-0141.0	37 HARTSHORN ST	LANTZ ERIK M	NESPOLA JENNIFER L	37 HARTSHORN ST	READING	MA	01867
026.0-0000-0142.0	33 HARTSHORN ST	BOND HAROLD E	BOND THERESA A	33 HARTSHORN ST	READING	MA	01867
026.0-0000-0143.0	23 HARTSHORN ST	DELACY STEPHEN	HOLLY ELLINGTON	23 HARTSHORN ST	READING	MA	01867
026.0-0000-0144.0	19 HARTSHORN ST	ROUMELIOTIS RACHEL L		19 HARTSHORN ST	READING	MA	01867
026.0-0000-0150.0	51 HARVARD ST	BROOKS GERALD F JR	ALICIA M BROOKS	51 HARVARD ST	READING	MA	01867
026.0-0000-0151.0	47 HARVARD ST	BADOME MICHAEL PAUL TRUSTEI	BADOME KRISTEN AGNES T	47 HARVARD ST	READING	MA	01867
026.0-0000-0152.0	41 HARVARD ST	THOMPSON KEVIN FRANICIS TE	THOMPSON MILLER MERED	41 HARVARD ST	READING	MA	01867
026.0-0000-0153.0	37 HARVARD ST	BEAUPRE RONALD A TRUSTEE ET	BEAUPRE FAMILY TRUST	37 HARVARD STREET	READING	MA	01867
026.0-0000-0154.0	33 HARVARD ST	MCGOWAN PATRICK P	MCGOWAN ASHLEY K	33 HARVARD ST	READING	MA	01867
026.0-0000-0155.0	27 HARVARD ST	FISHER JOHN W	FISHER ILIA TE	27 HARVARD ST	READING	MA	01867
027.0-0000-0001.0	210 LOWELL ST	GOLDEN III PETER G		210 LOWELL ST	READING	MA	01867
027.0-0000-0020.0	213 LOWELL ST	COUGHLIN MEGHAN A		213 LOWELL ST	READING	MA	01867
027.0-0000-0021.0	207 LOWELL ST	WEAVER WILLIAM R		207 LOWELL STREET	READING	MA	01867
027.0-0000-0022.0	6 PURITAN RD	WHITTAKER GORDON B	KATHY J WHITTAKER	6 PURITAN RD	READING	MA	01867
027.0-0000-0023.0	8 PURITAN RD	MERULLO MICHAEL	MERULLO KRISTEN	8 PURITAN RD	READING	MA	01867
027.0-0000-0024.0	16 PURITAN RD	SHIMKUS DONALD	SHIMKUS STACEY	16 PURITAN RD	READING	MA	01867
027.0-0000-0025.0	20 PURITAN RD	NARAHARA DANIEL M	LESLIE A NARAHARA	20 PURITAN RD	READING	MA	01867
027.0-0000-0026.0	24 PURITAN RD	DWYER MARK F	MARGERY S GRIFFITH	24 PURITAN ROAD	READING	MA	01867
027.0-0000-0027.0	28 PURITAN RD	BALLANTYNE ALEXANDER TR ET/	BALLANTYNE FAMILY REAL	28 PURITAN RD	READING	MA	01867
027.0-0000-0028.0	34 PURITAN RD	RUSSO JOELLE	BELLO TERRI	34 PURITAN RD	READING	MA	01867
027.0-0000-0043.0	3 PRISCILLA RD	HALL MATHEW J TRUSTEE ETAL	HALL FAMILY TRUST	3 PRISCILLA RD	READING	MA	01867
027.0-0000-0044.0	7 PURITAN RD	MACCURTAIN ROBERT K	KRISTIN L MACCURTAIN	7 PURITAN RD	READING	MA	01867
027.0-0000-0045.0	15 PURITAN RD	ROSSETTI CATHERINE B TRUSTEI	CBR NOMINEE TRUST	15 PURITAN ROAD	READING	MA	01867
027.0-0000-0046.0	25 PURITAN RD	CASAVANT DAVID A	CAROLE M CASAVANT	25 PURITAN RD	READING	MA	01867
027.0-0000-0050.0	12 PRISCILLA RD	DONAHUE WILLIAM	GLORIA DONAHUE	12 PRISCILLA RD	READING	MA	01867
027.0-0000-0232.0	26 HARVARD ST	MISSERT ANDREA	PARSONS RYAN JTROS	26 HARVARD ST	READING	MA	01867
027.0-0000-0233.0	22 HARVARD ST	MARINO PETRA		22 HARVARD ST	READING	MA	01867

**Reading  
Abutters List**

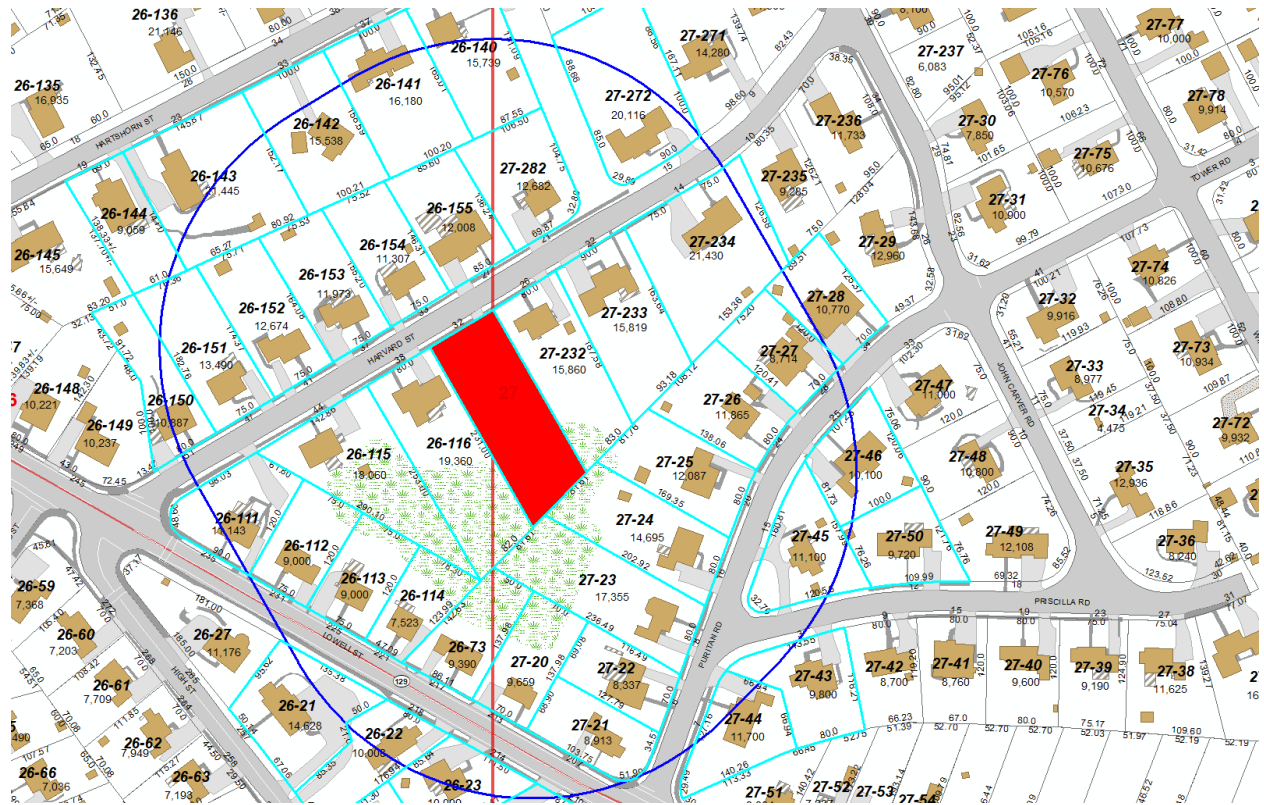
**Subject Parcel ID: 32 HARVARD ST REPORT**

**Subject Property Location:**

<b>ParcelID</b>	<b>Location</b>	<b>Owner</b>	<b>Co-Owner</b>	<b>Mailing Address</b>	<b>City</b>	<b>State</b>	<b>Zip</b>
027.0-0000-0234.0	14 HARVARD ST	MCSHEEHY MATTHEW	JANET MARIE MCSHEEHY	14 HARVARD ST	READING	MA	01867
027.0-0000-0272.0	15 HARVARD ST	DAIOPULOS ARTHUR C	MARY A DAIOPULOS	15 HARVARD ST	READING	MA	01867
027.0-0000-0282.0	21 HARVARD ST	ALBERT DAVID G	KATHLEEN M ALBERT	21 HARVARD STREET	READING	MA	01867

Parcel Count: **42**

**End of Report**





**TOWN OF READING**  
**16 LOWELL STREET**  
**READING, MA 01867-2693**

**BOARD OF ASSESSORS**  
**781-942-9027**  
**FAX: 781-942-9037**

---

**ABUTTERS LIST**  
**CERTIFICATION**  
**FOR BOARD OF ASSESSORS**

---

**VICTOR P. SANTANIELLO, CHIEF APPRAISER**

---

**DATE**

---

*Michele Keohan*

---

*10/10/24*

---

**MICHELE KEOHAN, ASSISTANT APPRAISER**

---

**DATE**



TOWN OF READING

REQUEST FOR CERTIFIED ABUTTERS LIST



SUBJECT PROPERTY:

ADDRESS: 32 Harvard Street

Assessors' Map Number: 26 Lot Number: 117

APPLICANT/AGENT:

Name: Meisner Brem Corporation (Ian Ainslie)

Address: 142 Littleton Road Ste. 16 Westford, MA 01886

Telephone: 978-692-1313 Email: iana@meisnerbrem.com

Board or Commission for which this request is made (check all that are applicable):

Community Planning and Development Commission:

- Site Plan Review (300 feet)
- Special Permit (300 feet)
- Subdivision (300 feet)

Conservation Commission:

- Request for Determination (300 feet)
- Abbreviated Notice of Resource Area Delineation (300 feet)
- Notice of Intent (300 feet)

Zoning Board of Appeals:

- Appeal (300 feet)
- Special Permit (300 feet)
- Variance (300 feet)

- Building Department: Immediate Abutters
- Health Department: Immediate Abutters
- Historic District Commission (300 feet)
- Historical Commission (300 feet)
- Other: \_\_\_\_\_

Brief description of request: for An Addition

Applicant/Agent Signature: [Signature] Date: \_\_\_\_\_  
*The Assessors' Office may require up to three weeks in order to process and approve this request.*

Authorized Signature: [Signature] Date: 10/17/2024  
*Must be signed by the Public Services Department*

## BASBANES WETLAND CONSULTING

39 Hardy St.  
Dunstable, MA 01827  
[basbanes@gmail.com](mailto:basbanes@gmail.com)

### Delineation Report

April 1 2024

The following is a report on the delineation of the wetland resource areas at 32 Harvard St Reading, MA. The delineation was done April 1 2024. The jurisdictional wetland resource area present on site may include: 310 CMR 10.55 Bordering Vegetated Wetland. The wetland delineated borders on an intermittent stream (off property) not shown on the USGS map.

It was noted that there was a significant amount of surface water on the lot from the northeast abutting property. This area did not appear to be connected to the actual wetland area.

### Delineation Method

A wetland delineation is done by visual survey of topography, evidence of hydrology, and identification of plant species. A determination is made for each plant species as to their indicator status as referenced in the "National List of Plant Species that Occur in Wetlands", published by the Fish and Wildlife Service. The boundary of the wetland is then determined to be where 50% or more of the vegetation community consists of wetland indicator species with a status of FAC or wetter. Where there is a dominance of wetland plants species, evidence of hydrology is looked for, i.e. water-stained leaves, drainage patterns, morphological adaptations, and hydric soils. Typically, hydric soils are determined by digging or augering a pit 20" deep and observing the horizons for color and features. Determinations are made referencing "Field Indicators for Identifying Hydric Soils in New England" and color matched to the Munsell Soil Color Charts.

### Flagging Series

The wetland resource area is delineated by the flagging series 1A-8A.

### Vegetation

The vegetation along the delineated area consists of the following dominant species:

Ash, White <i>Fraxinus americana</i>	FACU *
Maple, Red <i>Acer rubrum</i>	FAC
Maple, Norway <i>Acer platanoides</i>	NI
Weeping Willow <i>Salix babylonica</i>	FACW
Buckthorn, European <i>Rhamnus frangula</i>	FAC
Creeping Buttercup <i>Ranunculus repens</i>	FAC
Fern Cinnamon <i>Osmunda cinnamomea</i>	FACW
Fern Sensitive <i>Onoclea sensibilis</i>	FACW
Jewellweed <i>Impatiens capensis</i>	FACW
Purple Loosestrife <i>Lythrum salicaria</i>	FACW
Skunk Cabbage <i>Symplocarpus foetidus</i>	OBL
Soft Rush <i>Juncus effusus</i>	FACW
Maintained lawn	

**Soils**

As referenced to the NRCS Soil Survey, the soils on the subject property are the Canton series which are deep well drained soils in uplands on the lower slopes of hills. Field observations of this inclusion area is not consistent with the survey description.

The typical soil profiles observed were:

<u>SP upland</u>		<u>SP hydric</u>	
O	<1"	O	<1"
A	0" - 12" 10YR 2/2	A	0" - 14" 10YR 2/1
B	12" - 18" 10YR 3/3	B	14" - 18" 10YR 4/2 redox present

**Indicators of hydrology**

Along with the presence of hydric soil conditions other indicators of hydrology were observed. Those indicators include: water-stained leaves, drainage patterns, areas void of vegetation, saturation.

**Rare Species**

Under MESA and 310 CMR 10:59 Estimated Habitats of Rare Wildlife, any work proposed, regardless of wetlands, within an Estimated or Priority habitat shall be reviewed by the NHESP as well as the Conservation Commission. The site is not located within an Estimated or Priority Habitat

**Vernal Pools**

There are no NHESP Certified Vernal Pools on the property per the most recent NHESP map.

**FEMA**

As referenced to the FEMA flood data maps, the property is not located within a regulatory flood zone.

If you have any questions, please do not hesitate to contact me at lbasbanes@gmail.com. Thank you.

Sincerely,



Leah D. Basbanes, M.A.  
Wetland Consultant/Biologist

The wetland resource areas were delineated/reviewed in the keeping with the Massachusetts Wetland Protection Act and were done so to the best of our abilities. Considering all the variables (seasonal growth form of vegetation, soils conditions, topography, weather, etc.) involved in such an effort, please be advised that despite the best effort, no wetland delineation is considered definitive until verified and approved by the final issuing authority.

**BORDERING VEGETATED WETLAND DETERMINATION FORM**

Project/Site: 32 Harvard St City/Town: Reading Sampling Date: 4-1-24

Applicant/Owner: \_\_\_\_\_ Sampling Point or Zone: sp1 near 4A wet

Investigator(s): Leah Basbanes Latitude / Longitude: 42.53093, -71.11468

Soil Map Unit Name: Canton NWI or DEP Classification: FF/SW, WSD

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed? (If yes, explain in Remarks)

Are Vegetation , Soil , or Hydrology  naturally problematic? (If yes, explain in Remarks)

**SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.**

Wetland vegetation criterion met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydic Soils criterion met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Wetlands hydrology present?	Yes <input type="checkbox"/> No <input type="checkbox"/>		

Remarks, Photo Details, Flagging, etc.:  
 Area is impacted by water coming abutting property, appears to be from a sump pump.

**HYDROLOGY**

<b>Field Observations:</b>			
Surface Water Present?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches)	_____
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches)	_____
Saturation Present (including capillary fringe)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches)	<u>2.00</u>

<b>Wetland Hydrology Indicators</b>		
Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water
<input checked="" type="checkbox"/> Water-stained leaves	<input type="checkbox"/> Hydrological records	<input type="checkbox"/> Direct observation of inundation
<input type="checkbox"/> Evidence of aquatic fauna	<input type="checkbox"/> Free water in a soil test hole	<input checked="" type="checkbox"/> Drainage patterns
<input type="checkbox"/> Iron deposits	<input checked="" type="checkbox"/> Saturated soil	<input type="checkbox"/> Drift lines
<input type="checkbox"/> Algal mats or crusts	<input type="checkbox"/> Water marks	<input type="checkbox"/> Scoured areas
<input type="checkbox"/> Oxidized rhizospheres/pore linings	<input type="checkbox"/> Moss trim lines	<input type="checkbox"/> Sediment deposits
<input type="checkbox"/> Thin muck surfaces	<input type="checkbox"/> Presence of reduced iron	<input type="checkbox"/> Surface soil cracks
<input type="checkbox"/> Plants with air-filled tissue (aerenchyma)	<input type="checkbox"/> Woody plants with adventitious roots	<input type="checkbox"/> Sparsely vegetated concave surface
<input type="checkbox"/> Plants with polymorphic leaves	<input type="checkbox"/> Trees with shallow root systems	<input type="checkbox"/> Microtopographic relief
<input type="checkbox"/> Plants with floating leaves	<input type="checkbox"/> Woody plants with enlarged lenticels	<input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
<input type="checkbox"/> Hydrogen sulfide odor		

Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

**VEGETATION** – Use both common and scientific names of plants.

<u>Tree Stratum</u>		Plot size <u>30</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Red Maple	Acer rubrum	FAC	20.5	Yes	Yes
2. Weeping Willow	Salix babylonica	FACW	20.5	Yes	Yes
3. White Ash	Fraxinus americana	FACU	10.5	Yes	Yes
4. Norway Maple	Acer platanoides		10.5	Yes	No
5.					
6.					
7.					
8.					
9.					
<u>62.0</u> = Total Cover					
<u>Shrub/Sapling Stratum</u>		Plot size <u>15</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. European Buckthorn	Rhamnus frangula	FAC	3.0	No	Yes
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
<u>3.0</u> = Total Cover					
<u>Herb Stratum</u>		Plot size <u>5</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Sensitive Fern	Onoclea sensibilis	FACW	20.5	Yes	Yes
2. Cinnamon Fern	Osmunda cinnamomea	FACW	20.5	Yes	Yes
3. Jewelweed	Impatiens capensis	FACW	10.5	Yes	Yes
4. Purple Loosestrife	Lythrum salicaria	FACW	10.5	Yes	Yes
5. Skunk Cabbage	Symplocarpus foetidus	OBL	3.0	No	Yes
6.					
7.					
8.					
9.					
10.					
11.					
12.					
<u>65.0</u> = Total Cover					

**VEGETATION** – continued.

<u>Woody Vine Stratum</u>		Plot size _____		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
				0.0 = Total Cover			

<b>Rapid Test:</b> Do all dominant species have an indicator status of OBL or FACW?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<b>Dominance Test:</b>	Number of dominant species	Number of dominant species that are wetland indicator plants	Do wetland indicator plants make up ≥ 50% of dominant plant species?	
	8	7	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<b>Prevalence Index:</b>		Total % Cover (all strata)	Multiply by:	Result
	OBL species		X 1	= 0.00
	FACW species		X 2	= 0.00
	FAC species		X 3	= 0.00
	FACU species		X 4	= 0.00
	UPL species		X 5	= 0.00
	Column Totals	(A) 0		(B) 0
Prevalence Index		B/A = <b>0.00</b>		Is the Prevalence Index ≤ 3.0?
				Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>Wetland vegetation criterion met?</b>			Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**Definitions of Vegetation Strata**

- Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

**SOIL**

<b>Profile Description:</b> (Describe to the depth needed to document the indicator or confirm the absence of indicators)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Location <sup>2</sup>		
0-14	10YR 2/1						L	
14-18	10YR 4/2		5/1		D	M	LFS	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains     <sup>2</sup>Location: PL=Pore Lining, M=Matrix

<b>Hydric Soil Indicators</b> (Check all that apply)			<b>Indicators for Problematic Hydric Soils</b>		
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8)	<input type="checkbox"/> 2 cm Muck (A10)			
<input checked="" type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)			
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12)			
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Mesic Spodic (A17)			
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Red Parent Material (F21)			
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)			
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)				
<input type="checkbox"/> Sandy Mucky Mineral (S1)					
<input type="checkbox"/> Sandy Gleyed Matrix (S4)					
<input type="checkbox"/> Sandy Redox (S5)		<input type="checkbox"/> Other (Include Explanation in Remarks)			
<input type="checkbox"/> Stripped Matrix (S6)					
<input type="checkbox"/> Dark Surface (S7)					

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

Remarks:

**Hydric Soils criterion met?**    Yes     No

**BORDERING VEGETATED WETLAND DETERMINATION FORM**

Project/Site: 32 Harvard St City/Town: Reading Sampling Date: 4-1-24

Applicant/Owner: \_\_\_\_\_ Sampling Point or Zone: sp2 near 4A up

Investigator(s): Leah Basbanes Latitude / Longitude: 42.53093, -71.11468

Soil Map Unit Name: Canton NWI or DEP Classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed? (If yes, explain in Remarks)

Are Vegetation , Soil , or Hydrology  naturally problematic? (If yes, explain in Remarks)

**SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.**

Wetland vegetation criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydic Soils criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetlands hydrology present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.: <b>Area is maintained lawn and could be considered disturbed.</b>			

**HYDROLOGY**

<b>Field Observations:</b>		
Surface Water Present?	Yes <input type="checkbox"/>	No <input type="checkbox"/> Depth (inches) _____
Water Table Present?	Yes <input type="checkbox"/>	No <input type="checkbox"/> Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes <input type="checkbox"/>	No <input type="checkbox"/> Depth (inches) _____
<b>Wetland Hydrology Indicators</b>		
Reliable Indicators of Wetlands Hydrology <input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	Indicators that can be Reliable with Proper Interpretation <input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines  <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	Indicators of the Influence of Water <input type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits  <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.



**VEGETATION** – Use both common and scientific names of plants.

<u>Tree Stratum</u>		Plot size <u>30</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Norway Maple	Acer platanoides		20.5	Yes	No
2. Weeping Willow	Salix babylonica	FACW	20.5	Yes	Yes
3. Red Maple	Acer rubrum	FAC	10.5	Yes	Yes
4.					
5.					
6.					
7.					
8.					
9.					
			<u>51.5</u> = Total Cover		
<u>Shrub/Sapling Stratum</u>		Plot size <u>15</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. European Buckthorn	Rhamnus frangula	FAC	3.0	No	Yes
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
			<u>3.0</u> = Total Cover		
<u>Herb Stratum</u>		Plot size <u>5</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Lawn grass			85.5	Yes	No
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			<u>85.5</u> = Total Cover		

**VEGETATION – continued.**

<u>Woody Vine Stratum</u>		Plot size _____		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
				0.0 = Total Cover			

<b>Rapid Test:</b> Do all dominant species have an indicator status of OBL or FACW?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<b>Dominance Test:</b>	Number of dominant species	Number of dominant species that are wetland indicator plants	Do wetland indicator plants make up ≥ 50% of dominant plant species?	
	4	2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<b>Prevalence Index:</b>		Total % Cover (all strata)	Multiply by:	Result
	OBL species		X 1	= 0.00
	FACW species		X 2	= 0.00
	FAC species		X 3	= 0.00
	FACU species		X 4	= 0.00
	UPL species		X 5	= 0.00
	Column Totals	(A) 0		(B) 0
Prevalence Index		B/A = <b>0.00</b>		Is the Prevalence Index ≤ 3.0?
				Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>Wetland vegetation criterion met?</b>			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

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26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

**SOIL**

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Location <sup>2</sup>		
0-12	10YR 2/2						L	
12-18	10YR 3/3						LFS	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains      <sup>2</sup>Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators (Check all that apply)		Indicators for Problematic Hydric Soils
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<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Mesic Spodic (A17)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		
<input type="checkbox"/> Sandy Redox (S5)		<input type="checkbox"/> Other (Include Explanation in Remarks)
<input type="checkbox"/> Stripped Matrix (S6)		
<input type="checkbox"/> Dark Surface (S7)		

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

Remarks:

**Hydric Soils criterion met?**      Yes     No