



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
 Boxford Wetlands Protection Bylaw Town Code c 192 & 375

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Boxford

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):

20 Rowley Rd
 a. Street Address
 Boxford
 b. City/Town
 01921
 c. Zip Code
 Latitude and Longitude:
 42.68302
 d. Latitude
 -70.96878
 e. Longitude
 26
 f. Assessors Map/Plat Number
 3-18
 g. Parcel /Lot Number

2. Applicant:

Glenn & Haather
 a. First Name
 Mores
 b. Last Name
 c. Organization
 20 Rowley Rd
 d. Street Address
 Boxford
 e. City/Town
 MA
 f. State
 01921
 g. Zip Code
 978 239 2265
 h. Phone Number
 i. Fax Number
 glenn@3maudio.com
 j. Email Address

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

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):

Leah
 a. First Name
 Basbanes
 b. Last Name
 Basbanes Wetland Consulting
 c. Company
 39 Hardy St
 d. Street Address
 Dunstable
 e. City/Town
 MA
 f. State
 01827
 g. Zip Code
 978 808 1101
 h. Phone Number
 i. Fax Number
 lbasbanes@gmail.com
 j. Email address

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

\$110.00
 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:

Construction of a 20' by 24' detached garage within the 100 Buffer zone to a wetland resource area.

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

- | | |
|---|----------------------------------|
| 1. <input checked="" type="checkbox"/> 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 CMR 10.24(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:

Essex South

a. County

28730

c. Book

b. Certificate # (if registered land)

86

d. Page Number

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

- 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.
- 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. Bank	1. linear feet	2. linear feet
b. Bordering Vegetated Wetland	1. square feet	2. square feet
c. 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. Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced
f. Riverfront Area	1. Name of Waterway (if available) - specify coastal or inland	

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. _____

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. Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. Land Under the Ocean	1. square feet	
	2. cubic yards dredged	
c. Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. Coastal Beaches	1. square feet	2. cubic yards beach nourishment
	1. square feet	2. cubic yards dune nourishment
e. Coastal Dunes	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. Coastal Banks	1. linear feet	
g. Rocky Intertidal Shores	1. square feet	
h. Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. Land Containing Shellfish	1. square feet	
k. 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. 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.

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**

2023

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/mass-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:

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

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: dmf.envreview-north@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 X

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)

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

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:
- x1. 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.

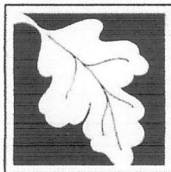
D. Additional Information

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.



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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.

Certified Plot Plan

a. Plan Title

John Abagis & Associates

John Abagis

b. Prepared By

c. Signed and Stamped by

March 1 2024

1"=40'

d. Final Revision Date

e. Scale

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:

2113
2. Municipal Check Number

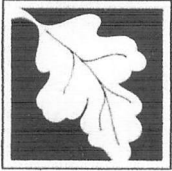
3/18/24
3. Check date

2112
4. State Check Number

3/18/24
5. Check date

Glenn
6. Payor name on check: First Name

Mores
7. Payor name on check: Last Name



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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.

	3/18/24
1. Signature of Applicant	2. Date
3. Signature of Property Owner (if different)	4. Date
	3/18/24
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

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

For MassDEP:

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

Other:

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

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



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NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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A. Applicant Information

1. Location of Project:

20 Rowley Rd Boxford
 a. Street Address b. City/Town
\$42.50
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Glenn Mores
 a. First Name b. Last Name
 c. Organization
20 Rowley Rd
 d. Mailing Address
Boxford MA 01921
 e. City/Town f. State g. Zip Code
978 239 2265 glenn@3maudio.com
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

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).


GLENN S. MORES
HEATHER MORES
20 ROWLEY RD.
BOXFORD, MA 01921-1838

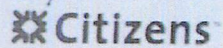
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2112

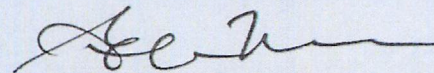
DATE 3/18/24

PAY TO THE ORDER OF Commonwealth of Massachusetts \$ 42.50

Forty-two and 50/100 DOLLARS  Security Features Included. Details on Back.

 Citizens

MEMO NOI

 MP

⑆ 211070175⑆ 1314616193⑆ 2112


GLENN S. MORES
HEATHER MORES
20 ROWLEY RD.
BOXFORD, MA 01921-1838

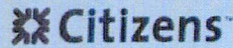
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2113

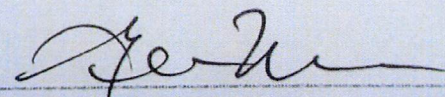
DATE 3/18/24

PAY TO THE ORDER OF Town of Dufford \$ 67.50

Sixty-seven and 50/100 DOLLARS  Security Features Included. Details on Back.

 Citizens

MEMO NOI

 MP

⑆ 211070175⑆ 1314616193⑆ 2113

BASBANES WETLAND CONSULTING

39 Hardy St.
Dunstable, MA 01827
basbanes@gmail.com
978-808-1101

Delineation Report

March 12 2024

The following is a report on the delineation of the wetland resource areas at 20 Rowley Road, Boxford, MA. The delineation was done February 21 2024. The jurisdictional wetland resource area present on site may include: 310 10.54 Bank, 310 CMR 10.55 Bordering Vegetated Wetland, 310 10.56 Land under Waterways and Water Bodies.

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.

The Bank or Mean Annual High-Water Line is determined by the line that is apparent from visible markings or changes in the character of soils or vegetation due to the prolonged presence of water and that distinguishes between predominantly aquatic and predominantly terrestrial land. This is typically the first observable break in slope. However, in some river reaches, characterized by features such as a low gradient, meanders, oxbows, histosols, a low-flow channel, or poorly-defined or nonexistent banks, the MAHW line will be evidenced by some combination of the bankfull field indicators i.e. changes in vegetation (usually changes in vegetative community), stain lines, top of point bars (depositional features), changes in slope, changes in bank material, and bank undercuts.

Flagging Series

The wetland resource area is delineated by the flagging series 1A-10A. The wetland delineated is a bordering vegetated wetland associated with an intermittent stream that is not shown on the USGS map.

Vegetation

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

Maple, Red <i>Acer rubrum</i>	FAC
Oak, Red <i>Quercus rubra</i>	FACU
Pine, White <i>Pinus strobus</i>	FACU
Highbush Blueberry <i>Vaccinium corymbosum</i>	FACW
Lowbush Blueberry <i>Vaccinium angustifolium</i>	FACU
Sheep Laurel <i>Kalmia angustifolia</i>	FAC

Spicebush <i>Lindera benzoin</i>	FACW
Clubmoss <i>Lychopodium obscurum</i>	FACU
Fern Bracken <i>Pteridium aquilinum</i>	FACU
Fern Cinnamon <i>Osmunda cinnamomea</i>	FACW

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.

The typical soil profiles observed were:

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

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

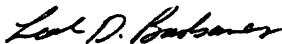
There are no NHESP Certified Vernal Pools on the property per the most recent NHESP map.

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: 20 Rowley Rd City/Town: Boxford Sampling Date: 2/21/24

Applicant/Owner: Glenn & Heather Mores Sampling Point or Zone: 1

Investigator(s): Leah Basbanes Latitude / Longitude: 42.68302, -70.9687

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 checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soils criterion met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Wetlands hydrology present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.:			

HYDROLOGY

Field Observations:		
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>3.00</u>
Wetland Hydrology Indicators		
Reliable Indicators of Wetlands Hydrology <input checked="" 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 checked="" type="checkbox"/> Free water in a soil test hole <input checked="" type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines <input checked="" 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 checked="" 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 checked="" 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>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Red Maple	Acer rubrum	FAC	38.0	Yes	Yes
2. Red Oak	Quercus rubra	FACU	38.0	Yes	No
3. White Pine	Pinus strobus	FACU	20.5	Yes	No
4.					
5.					
6.					
7.					
8.					
9.					
<u>96.5</u> = Total Cover					
<u>Shrub/Sapling Stratum</u>		Plot size <u>15</u>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Highbush Blueberry	Vaccinium corymbosum	FACW	20.5	Yes	Yes
2. Spicebush	Lindera benzoin	FACW	20.5	Yes	Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
<u>41.0</u> = Total Cover					
<u>Herb Stratum</u>		Plot size <u>5</u>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Cinnamon Fern	Osmunda cinnamomea	FACW	38.0	Yes	Yes
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
<u>38.0</u> = Total Cover					

VEGETATION – continued.

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

Rapid Test: Do all dominant species have an indicator status of OBL or FACW? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants	Do wetland indicator plants make up ≥ 50% of dominant plant species? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Prevalence Index:		Total % Cover (all strata)	Multiply by:
	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 = 0.00	
		Is the Prevalence Index ≤ 3.0? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Wetland vegetation criterion met? 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

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 ¹	Location ²		
0-12	10yr 2/1							
12-18	10yr 4/2		4/4	20.00	C	M	fsi	redox present

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

Hydric Soil Indicators (Check all that apply)		Indicators for Problematic Hydric Soils	
<input checked="" type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8)	<input type="checkbox"/> 2 cm Muck (A10)	
<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

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 20 Rowley Rd City/Town: Boxford Sampling Date: 2/21/24

Applicant/Owner: Glenn & Heather Mores Sampling Point or Zone: 2

Investigator(s): Leah Basbanes Latitude / Longitude: 42.88302, -70.8687

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"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric 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.:			

HYDROLOGY

Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches) _____
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches) _____
Wetland Hydrology Indicators		
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>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Red Oak	Quercus rubra	FACU	38.0	Yes	No
2. White Pine	Pinus strobus	FACU	38.0	Yes	No
3. Red Maple	Acer rubrum	FAC	20.5	Yes	Yes
4.					
5.					
6.					
7.					
8.					
9.					
<u>96.5</u> = Total Cover					
<u>Shrub/Sapling Stratum</u>		Plot size <u>15</u>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Lowbush Blueberry	Vaccinium angustifolium	FACU	20.5	Yes	No
2. Sheep Laurel	Sheep Laurel	FAC	20.5	Yes	Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
<u>41.0</u> = Total Cover					
<u>Herb Stratum</u>		Plot size <u>5</u>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. Bracken Fern	Pteridium aquilinum	UPL	38.0	Yes	No
2. Clubmoss	Lycopodium obscurum	UPL	38.0	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
<u>76.0</u> = Total Cover					

VEGETATION – continued.

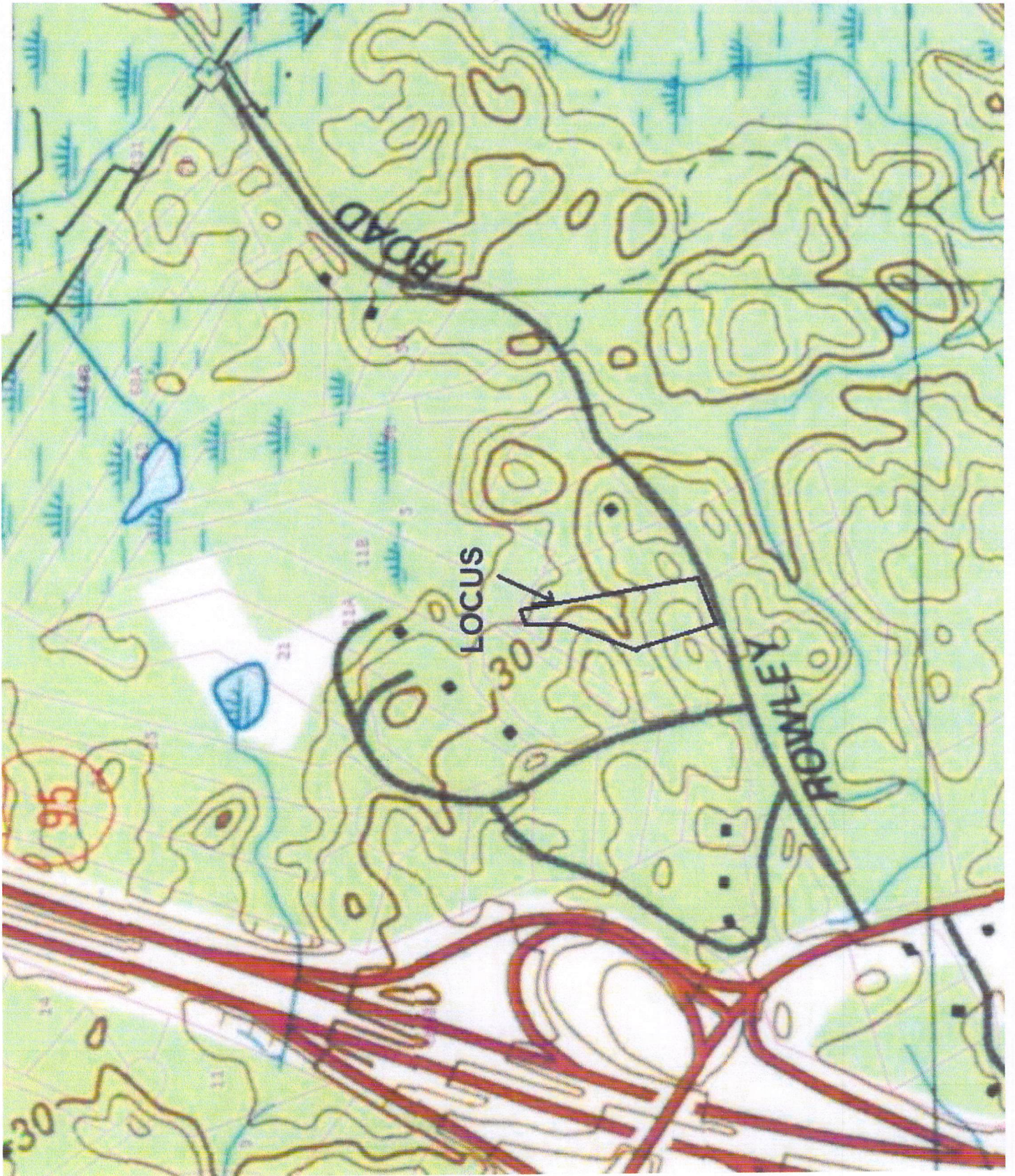
Woody Vine Stratum		Plot size _____		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.							
2.							
3.							
4.							
				0.0 = Total Cover			

Rapid Test: Do all dominant species have an indicator status of OBL or FACW? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Prevalence Index:		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 = 0.00		Is the Prevalence Index ≤ 3.0? Yes <input type="checkbox"/> No <input type="checkbox"/>
Wetland vegetation criterion met? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				

Definitions of Vegetation Strata

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- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

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





26-03-18, 20 ROWLEY ROAD BOXFORD MA ABUTTERS LIST
 CONSERVATION COMMITTEE 250' AND PONDS

Parcel ID	Location	Owner	Owner 2	Owner Address	Owner City/Town	Owner State	Zip Code
21-01-27	7 CAMELOT DR	BUONOPANE PAUL M	BUONOPANE STEFANI M	7 CAMELOT DR	BOXFORD	MA	01921
21-01-28	5 CAMELOT DR	HOSTETTER JOHN B TE	HOSTETTER KATHLEEN	5 CAMELOT DR	BOXFORD	MA	01921
21-01-29	11B CAMELOT DR	SHAW CHRISTOPHER M	SHAW MEREDITH A	11B CAMELOT DR	BOXFORD	MA	01921
21-01-30	11A CAMELOT DR	FRONTERA THOMAS J TE	FRONTERA SUSAN L	11A CAMELOT DR	BOXFORD	MA	01921
21-01-05	32 ROWLEY RD	MAZZIE KATRINA FROIO		32 ROWLEY RD	BOXFORD	MA	01921
26-03-12	1 CAMELOT DR	SWEET BRADLEY A TE	SWEET PAMELLA A	1 CAMELOT DR	BOXFORD	MA	01921
26-03-13	ROWLEY RD	COMMONWEALTH OF MA	DEPT OF CONSERVATION & RECREATION	251 CAUSEWAY ST, SUITE 600	BOSTON	MA	02114
26-03-13-2	ROWLEY RD	COMMONWEALTH OF MA	DEPT OF CONSERVATION & RECREATION	251 CAUEWAY ST, SUITE 600	BOSTON	MA	02114
26-03-13-3	ROWLEY RD	COMMONWEALTH OF MA	DEPT OF CONSERVATION & RECREATION	251 CAUSEWAY ST, SUITE 600	BOSTON	MA	02114
26-03-13-4	ROWLEY RD	COMMONWEALTH OF MA	DEPT OF CONSERVATION & RECREATION	251 CAUSEWAY ST, SUITE 600	BOSTON	MA	02114
26-03-17	24 ROWLEY RD	MIDDLETON AMY S	GAUDREAU MICHAEL	24 ROWLEY RD	BOXFORD	MA	01921
26-03-18	20 ROWLEY RD	MORES HEATHER DAWN	MORES GLENN SCOTT	20 ROWLEY RD	BOXFORD	MA	01921
26-03-19	12 ROWLEY RD	MENDES FREDERICK J TR	MENDES BEVERLY A TR	12 ROWLEY RD	BOXFORD	MA	01921

CERTIFIED COPY 2/28/2024
Stacey Fournier



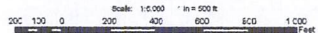
Merrimack Valley Planning Commission

Notes

This map is for assessment purposes only. It is not a legal document for land transactions or for assessing. It is intended to show the location of parcels, lot numbers, and acreage for planning purposes. For legal information please refer to the deed records of the Town of Boxford Assessor's Office.

*Without Note: The website shown on the map do not display their actual location or location. A website address should be consulted if a website is present.

**Town of Boxford
Property Parcel Maps
26**



Legend	
	Adjacent Maps
	Town Boundaries
	Map Boundaries
	Property Parcels
	Building Footprints
	Hydrographic Features
	Streams
	Wetlands
	Commercial Land Use
	Class
	County
	Municipal
	Private



CERTIFIED PLOT PLAN

PREPARED FOR:

GLENN & HEATHER MORES

AT

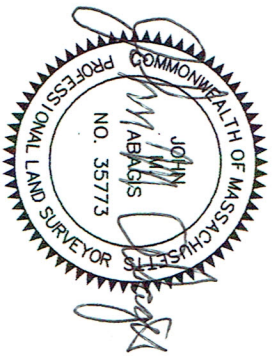
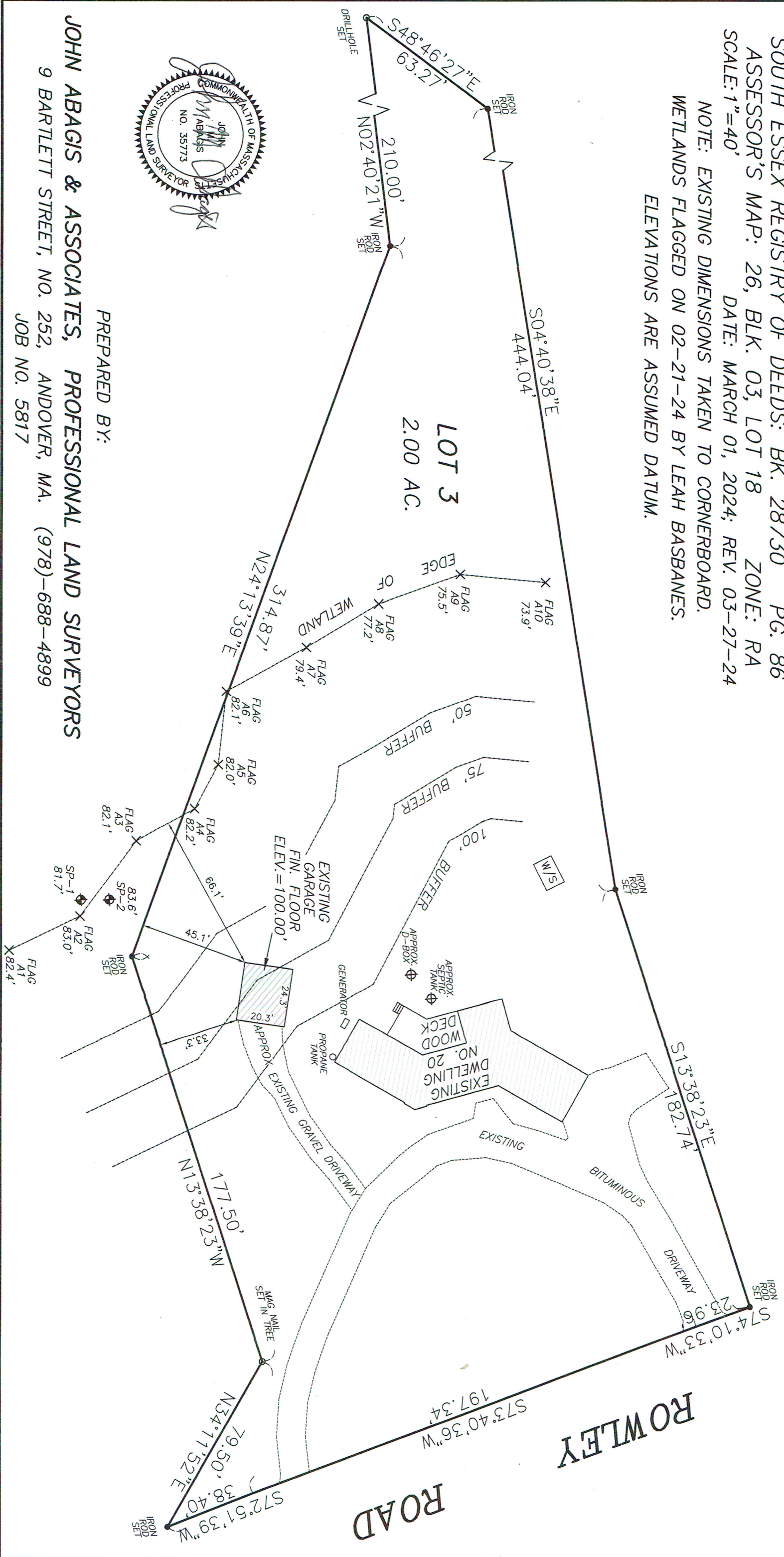
20 ROWLEY ROAD

BOXFORD, MA.

SOUTH ESSEX REGISTRY OF DEEDS: BK. 28730 PG. 86
ASSESSOR'S MAP: 26, BLK. 03, LOT 18 ZONE: RA
SCALE: 1"=40'

NOTE: EXISTING DIMENSIONS TAKEN TO CORNERBOARD.
WETLANDS FLAGGED ON 02-21-24 BY LEAH BASBANES.
ELEVATIONS ARE ASSUMED DATUM.

PLAN NO. 256 OF 1978



PREPARED BY:

JOHN ABAGIS & ASSOCIATES, PROFESSIONAL LAND SURVEYORS

9 BARTLETT STREET, NO. 252, ANDOVER, MA. (978)-688-4899

JOB NO. 5817