

NOTICE OF INTENT

MGL CH. 131S40

Town of Haverhill Wetlands Protection Bylaw

PROPOSED SINGLE-FAMILY DEVELOPMENT

0 Liberty St (Lot 567-1-19)

Haverhill, Massachusetts 01832



344 North Main Street | Andover • MA 01810
(978) 416-0920 | www.civildci.com

APPLICANT:

**Robert F. Ferreira
10 Michael Anthony Rd
Haverhill, MA 01832**

SUBMITTED TO:

**Haverhill Conservation Commission
4 Summer Street
Room 300
Haverhill, MA 01830**

**Mass DEP Northeast Region
150 Presidential Way
Woburn, MA 01801**

ISSUED:

July 23, 2026

CDCI FILE #: 26-10884



NOTICE OF INTENT TABLE OF CONTENTS

SECTION I

Project Narrative
WPA Form 3 – Notice of Intent
Wetland Fee Transmittal Form
City of Haverhill Conservation Commission Local Application Form 3
Local Ordinance Fee Calculation Form
Copy of Checks
Abutters List – Haverhill
Property Deed

SECTION II

Locus Orthophoto
USGS Topographic Map
FEMA Flood Map
NRCS Soils Map

NOTICE OF INTENT – MGL CH. 131S40

Town of Haverhill Wetlands Protection Bylaw

SECTION I

Project Narrative
WPA Form 3 – Notice of Intent
Wetland Fee Transmittal Form
City of Haverhill Conservation Commission Local
Application Form 3
Local Ordinance Fee Calculation Form
Copy of Checks
Abutters List – Haverhill
Property Deed

NOTICE OF INTENT

0 Liberty St
Haverhill, Massachusetts

PROJECT DESCRIPTION

The proposed project consists of the construction of a single-family dwelling and associated site improvements located at Liberty St (Map 567, Block 1, Lot 19) in Haverhill, Massachusetts. Proposed site improvements are located within the buffer zones to a Bordering Vegetated Wetland (BVW) and within a portion of the approximate Zone A Surface Water Protection Area.

EXISTING CONDITIONS AND RESOURCE AREA DESCRIPTION

The project site is located within the Rural Residential (RR) Zoning District, contains ± 0.59 -AC, and is currently an undeveloped wooded lot.

On-site resource areas include Bordering Vegetated Wetland (BVW), the 100-FT Wetland Buffer Zone, a local 50-FT No Build Zone, and the 25-FT No Disturb Zone. Additional local buffers such as the 35-FT and 75-FT buffers are shown on the accompanying site plan, which are associated with the local water supply protection overlay district. Wetland resource areas were delineated by Norse Environmental in April of 2026.

According to the Natural Resource Conservation Service Soil Survey for Essex County, Massachusetts, on-site soil consists of Montauk Fine Sandy Loam (HSG-C) and Woodbridge Fine Sandy Loam (HSG-C/D). Test pits were conducted by this office in April of 2026 to determine soil texture and estimated seasonal high groundwater elevation. Soil logs are included on Sheet C-2 of the Site Development Plans for 0 Liberty St.

According to the Flood Insurance Rate Map (FIRM) for Essex County, Massachusetts Panel 25009C0067G, dated July 8, 2025, the property is not located within a FEMA Flood Zone.

Project plans entitled *Site Development Plans for 0 Liberty St* have been prepared by this office and provided for your review. These plans illustrate the proposal in detail including construction details, utilities, stormwater and septic systems.

PROJECT PURPOSE

The purpose of the project is to develop the existing vacant lot with a single-family residence with a deck, patio, driveway, on-site septic disposal, utilities, landscaping and a roof drywell.

Total post-development impervious areas, including roofs, driveways, and walkways, is approximately 2,456-SF.

A small portion of the dwelling is located within the 100-FT Wetland Buffer Zone. Minor grading is proposed within the 75-FT buffer and 50-FT No-Build Zone. No work is proposed within the 35-FT buffer and 25-FT No-Disturb Zone. Following grading, all disturbed areas will be stabilized with loam and seed. Table 1 summarizes impervious area quantities within buffer zones.

NOTICE OF INTENT

Liberty St
Haverhill, Massachusetts

Table 1. Impervious Area Quantities in Buffer Zones

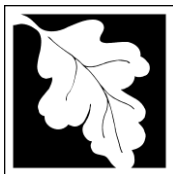
Resource Area	Existing Impervious Area	Proposed Impervious Area	Net Change
0 – 35-FT No Disturb	0-SF	0-SF	0-SF
35 – 75-FT No Build	0-SF	0-SF	0-SF
75 – 100-FT Buffer Zone	0-SF	51-SF	+51-SF
Approximate Zone A	0-SF	1,266-SF	+1,266-SF

COMPLIANCE WITH THE CITY OF HAVERHILL CONSERVATION COMMISSION WETLANDS PROTECTION BYLAW SECTION

Stormwater management is provided via a roof drywell system designed to capture and infiltrate the 1/2" stormwater runoff volume from the rooftop of the dwelling. No work is proposed within the local 25-FT No-Disturb Zone or 35-FT buffer.

MITIGATION MEASURES

To protect resource areas during construction, erosion and sedimentation controls will be installed along the limit of work. All erosion and sedimentation controls will be maintained throughout construction until all disturbed areas are permanently stabilized.



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

Haverhill
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):

0 Liberty St

a. Street Address

Haverhill

b. City/Town

01832

c. Zip Code

Latitude and Longitude:

567

f. Assessors Map/Plat Number

42.795944

d. Latitude

-71.155539

e. Longitude

19

g. Parcel /Lot Number

2. Applicant:

Robert

a. First Name

Ferreira

b. Last Name

c. Organization

10 Michael Anthony Rd

d. Street Address

Haverhill

e. City/Town

MA

f. State

01832

g. Zip Code

978.273.0383

h. Phone Number

i. Fax Number

rytref64@comcast.net

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):

James

a. First Name

Hanley

b. Last Name

Civil Design Consultants, Inc

c. Company

21 High St

d. Street Address

North Andover

e. City/Town

MA

f. State

01845

g. Zip Code

978.416.0920

h. Phone Number

i. Fax Number

JHanley@CivilDCI.com

j. Email address

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

500

a. Total Fee Paid

237.50

b. State Fee Paid

262.50

c. City/Town Fee Paid



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Haverhill
City/Town

A. General Information (continued)

6. General Project Description:

Applicant proposes to develop 0 Liberty Street to have a single-family dwelling. Proposed site improvements are located within the 100-FT Wetland Buffer Zone to a Bordering Vegetated Wetland (BVW) and approximate Zone A.

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 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:

Southern Essex

a. County

43244

c. Book

315

b. Certificate # (if registered land)

473

d. Page Number

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

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

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



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Haverhill

City/Town

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ 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:

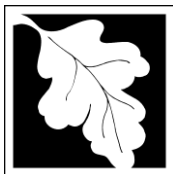
a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

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.



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

Haverhill

City/Town

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

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

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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. ☐ 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
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



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

Haverhill

City/Town

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 Notice of Intent – 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

August 1, 2021

b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.1.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 <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

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



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

Haverhill

City/Town

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

- (c) ☐ MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/esa_fee_schedule.htm). Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

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

- (d) ☐ Vegetation cover type map of site
- (e) ☐ Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following
1. ☐ Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/esa/esa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)
2. ☐ Separate MESA review ongoing. _____ a. NHESP Tracking # _____ b. Date submitted to NHESP
3. ☐ Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?
- a. ☐ Not applicable – project is in inland resource area only b. ☐ Yes ☐ No

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

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

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

North Shore - Hull to New Hampshire border:

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

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.



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

Haverhill
City/Town

Online Users:

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

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.



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

Haverhill

City/Town

D. Additional Information (cont'd)

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

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

Site Development Plans for 0 Liberty Street

a. Plan Title

Civil Design Consultants, Inc

b. Prepared By

July 23, 2026

d. Final Revision Date

James E. Hanley

c. Signed and Stamped by

1" = 10'

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:

2451

2. Municipal Check Number

2452

4. State Check Number

Robert

6. Payor name on check: First Name

07/15/2026

3. Check date

07/15/2026

5. Check date

Ferreira

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

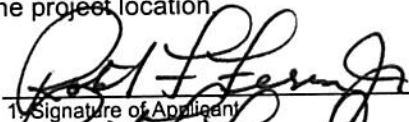
Haverhill

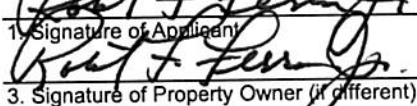
City/Town

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.


1. Signature of Applicant


3. Signature of Property Owner (if different)


5. Signature of Representative (if any)

2/16/26
2. Date

7/16/26
4. Date

7/23/2026
6. Date

For Conservation Commission:

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

For MassDEP:

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

Other:

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

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



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

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



A. Applicant Information

1. Location of Project:

0 Liberty St (567-1-19)

a. Street Address

2452

c. Check number

Haverhill

b. City/Town

\$237.50

d. Fee amount

2. Applicant Mailing Address:

Robert

a. First Name

Ferreira Polcari Realty Trust

c. Organization

10 Michael Anthony Rd

d. Mailing Address

Haverhill

e. City/Town

MA

f. State

01832

g. Zip Code

978.273.0383

h. Phone Number

i. Fax Number

rytref64@comcast.net

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).



Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 2A: Construction of single-family house	1	\$500.00	\$500.00
Step 5/Total Project Fee:			\$500.00
Step 6/Fee Payments:			
Total Project Fee:			\$500.00
State share of filing Fee:			\$237.50
City/Town share of filling Fee:			\$262.50
			a. Total Fee from Step 5
			b. 1/2 Total Fee less \$12.50
			c. 1/2 Total Fee plus \$12.50

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.

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.)



City of Haverhill Conservation Commission

HCC Local Application Form 3 Notice of Intent

A. STATUTE APPLICABILITY

This application is being filed with the Commission in accordance with the following (check all that apply):

- ☒ Massachusetts Wetlands Protection Act, M.G.L. Chapter 131, Section 40
- ☒ Haverhill Municipal Ordinance Chapter 253

B. GENERAL INFORMATION

Applicant Robert Ferreira
Property Owner Ferreira Polcari Realty Trust
Representative Civil Design Consultants, Inc
Location (Street Address) Liberty St
Assessor's Parcel Identification 567-1-19

C. APPLICATION CHECKLIST

The Commission requires the submittal of this original, completed Form; one (1) paper copy of site plans; and one (1) paper copy of all other materials. Additionally, the Commission requires the submittal of individual PDFs of this Form and all listed application materials. If practical, related items may be combined into a single PDF. PDFs should not mix larger format sheets (e.g. site plans) with smaller sheets (e.g. letters). These submittal requirements also apply to supplemental information provided during the public hearing. The following materials shall be submitted with this form:

- ☒ Completed, current WPA Form 3, 3A, or 4 and NOI Wetland Fee Transmittal Form
- ☒ Project Narrative with description of resource areas & delineation methodology and demonstration of compliance with pertinent Performance Standards
- ☒ Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan
- ☒ Site Plans clearly describing the location and nature of the work, including such information as site boundaries, wetlands, topography, existing and proposed conditions, vegetation cover, soils, erosion & sedimentation controls, Title 5 compliance, flood storage calculations...(24" x 36" max. sheet size)
- ☐ MassDEP Bordering Vegetated Wetland Delineation Field Data Forms, as appropriate
- ☐ Wetland Resource Area Impact Mitigation Plan prepared in accordance with MA Inland Wetland Replication Guidelines, if applicable
- ☐ Demonstration of compliance with MA River & Stream Crossing Standards, if applicable (The HCC applies the General Standards to all resource area crossings for wildlife passage.)
- ☐ Simplified or Detailed Wildlife Habitat Evaluation (Appendix A or B), if applicable (See "MA Wildlife Habitat Protection Guidance for Inland Wetlands")
- ☐ Demonstration of compliance with MA Stormwater Management Standards, including but not limited to
 - ☐ Stormwater Report with pertinent calculations based on NOAA Atlas 14 rainfall data
 - ☐ Checklist for Stormwater Report
 - ☐ Long-Term Pollution Prevention Plan
 - ☐ Operation and Maintenance Plan
 - ☐ Illicit Discharge Compliance Statement

City Hall Room 300 • 4 Summer Street • Haverhill, MA 01830 • www.cityofhaverhill.org



City of Haverhill Conservation Commission

HCC Local Application Form 3 Notice of Intent

- ☒ 8½" x 11" sections of the following maps with project location clearly identified
- ☒ USGS Quadrangle
 - ☒ MassGIS Orthophoto
 - ☒ City of Haverhill Parcel ID Map, also identifying properties within 300' of subject property
 - ☒ NRCS Soils Map and Resource Report
 - ☒ FEMA Flood Insurance Rate Map, if applicable
 - ☐ MA NHESP Estimated Habitats of Rare Wildlife and Priority Habitats of Rare Species, if applicable
 - ☐ MassDEP/UMass-Amherst Habitat of Potential Regional or Statewide Importance, if applicable
 - ☐ Proof of NOI filing with the MA Natural Heritage & Endangered Species Program, if applicable
 - ☒ Appropriate Filing Fees, payable to the City of Haverhill, under the Act and Ordinance
 - ☐ Other: _____

D. LOCAL PERMIT DOCUMENTATION

In accordance with 310 CMR 10.05(4)(e), list all obtainable permits, variances, and approvals required by local ordinance with respect to the proposed activity and status of same: _____
Lot was granted a variance for reduced minimum frontage and area. It is currently in the appeal period

E. APPLICATION CERTIFICATION

I have read the Department of Environmental Protection's "Instructions for Completing Application" and the City's Municipal Ordinance under Chapter 253, with all applicable regulations and policies, for the filing of this application with the Haverhill Conservation Commission and agree to its terms and conditions, as amended. I understand the submitted NOI, its plans, and all its supporting materials are public records and may be uploaded to the City's website for public review. As required by the Commission, the wetland resource area(s) are flagged, the corners of proposed structures are staked, and the centerline of proposed roadway(s) and/or driveway(s) are marked, as appropriate, to facilitate site inspections by Commissioners and Conservation Staff.

Signed _____

(APPLICANT)

7/16/26
(DATE)

F. SITE ACCESS ACKNOWLEDGEMENT

I hereby grant the Haverhill Conservation Commission and its officials permission to enter upon my property at LIBERTY STREET to review the filed Notice of Intent and (STREET ADDRESS AND ASSESSOR'S PARCEL ID)
future site conditions for compliance with the issued Order of Conditions. The sole purpose of this acknowledgement is to allow the Commission and its officials to perform their duties under the Massachusetts Wetlands Protection Act and the City's wetlands protection ordinance.

Signed _____

(PROPERTY OWNER)

7/16/26
(DATE)



City of Haverhill Conservation Commission

HCC Local Application Form 3

Notice of Intent

G. AFFIDAVIT OF SERVICE FOR ABUTTER NOTIFICATION

I, _____, hereby certify under the pains and penalties of perjury that on
(NAME OF PERSON MAKING AFFIDAVIT)
_____ I gave notification to all abutters pursuant to the requirements of the second
(DATE)
paragraph of Massachusetts General Laws Chapter 131, Section 40, the DEP Guide to Abutter Notification dated April 8, 1994, and Haverhill Municipal Ordinance Chapter 253, Section 5 in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act and said ordinance by
_____ with the Haverhill Conservation Commission on
(NAME OF APPLICANT)

07/23/2026

(DATE)

for property located at _____

Liberty St (567-1-19)

(STREET ADDRESS AND ASSESSOR'S PARCEL ID)

The list of the abutters to whom the Abutter Notification Form sent, with their addresses and Assessor's parcel identification information that corresponds with the submitted map section, are attached to this application.

Signed: _____
(NAME OF PERSON MAKING AFFIDAVIT)

(DATE)



City of Haverhill Conservation Commission

HCC Local Application Form 3 Notice of Intent

9782730383

H. ABUTTER NOTIFICATION FORM

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40 (the Wetlands Protection Act) and Haverhill Municipal Ordinance Chapter 253, Section 5, you are hereby notified of the following:

1. The name of the applicant is Robert Ferreira
2. Brief Project Description: Applicant proposes to construct a single-family house located at 0 Liberty St (567-1-19). A portion of the site improvements are located within the 100-FT Wetland Buffer Zone to a Bordering Vegetated Wetland and approximate Zone A Surface Water Supply Zone.
3. The applicant has filed a Notice of Intent ("NOI") with the Haverhill Conservation Commission seeking permission to remove, fill, dredge or alter an Area Subject to Protection Under the Wetlands Protection Act and/or Haverhill Municipal Ordinance Chapter 253 and/or to perform work within the buffer zone of such an Area.
4. The address of the lot where the activity is proposed is 0 Liberty St (567-1-19)
(INCLUDE ASSESSOR'S MAP/BLOCK/LOT)
5. Copies of the NOI may be examined at *the Haverhill Conservation Department Office* between the hours of *8am and 4pm* from *Monday through Friday*. Contact information is below. You may also find helpful application materials on the "Projects Under Review" section of the Commission's website.
6. Copies of the NOI may be obtained from either (check one) the applicant _____, or the applicant's representative ☒ by calling this telephone number (978) 416 - 0920 between the hours of 9 and 5 on the following days of the week Monday - Friday
7. Information regarding the *date, time, and place* of the public hearing may be obtained from the *Haverhill Conservation Department Office* between the hours of *8am and 4pm* from *Monday through Friday*. Contact information is below. You may also consult the "Agenda" section of the Commission's website.

NOTE: Notice of the public hearing, including its date, time and place, will be published at least five (5) days in advance in the *Haverhill Gazette newspaper*.

NOTE: Notice of the public hearing, including its date, time, and place, will be posted in Haverhill City Hall not less than forty-eight (48) hours in advance.

NOTE: You may contact the Haverhill Conservation Department for more information about this application, the Wetlands Protection Act, and Haverhill Municipal Ordinance Chapter 253. Please note the Department has only one staff person; every effort will be made to assist you in a timely manner.

Website: http://www.cityofhaverhill.org/departments/conservation_commission/index.php.

Email: conservation@cityofhaverhill.com

Phone: 978.374.2334

NOTE: For additional information about this application and the Act, you may contact the MA Department of Environmental Protection Northeast Regional Office Service Center.

Website: <http://www.mass.gov/eea/agencies/massdep/about/contacts/northeast-region.html>

Phone: 978.694.3200

City Hall Room 300 • 4 Summer Street • Haverhill, MA 01830 • www.cityofhaverhill.org



City of Haverhill Conservation Commission

HCC Local Application Form 3 Notice of Intent

I. LOCAL ORDINANCE FEE CALCULATION FORM

ACTIVITY	LOCAL ORDINANCE FEE	# of Activities or Measurement	Subtotal
*Abbrev. Notice of Resource Area Delineation (ANRAD)			
Single Family House Project	\$1/linear foot, first 100'; \$0.50/lf, second 100'; \$0.10/lf, each additional foot		
All Other Projects	***\$1/linear foot, first 1000'; \$0.50/lf, second 1000'; \$0.10/lf, each additional foot		
***Notices of Intent (NOI)			
Category 1 Activity	\$100		
Category 2 Activity	\$250	1	\$250.00
Category 3 Activity	\$525		
Category 4 Activity	\$725		
Category 5 Activity	\$2/foot		
Category 6 Activity - If no ANRAD was filed for the project site, then a local Cat. 6 fee must be paid in accordance with the ANRAD fee schedule	See ANRAD fee schedule	>100-FT	\$200.00
Resource Area Alterations			
Buffer Zone, 75'-100' from resource area boundary	\$0.05 / square foot	4,080-SF	\$204.00
Buffer Zone, 35'-75' from resource area boundary	\$0.10 / square foot	3,840-SF	\$384.00
Buffer Zone, 0'-35' from resource area boundary	\$0.25 / square foot		
Bordering Vegetated Wetland	\$0.50 / square foot		
Bank	\$5 / linear foot		
Land Under Water	\$0.50 / square foot		
Land Subject to Flooding	\$0.05 / square foot		
Riverfront Area	\$0.05 / square foot		
Riverfront Area with the watershed of a potable water supply	\$0.50 / square foot		
Land within 100' of a Certified Vernal Pool	\$0.25 / square foot		
Local-only Jurisdictional Resource Area	\$0.25 / square foot		
Land within 200' of a potable water supply	\$0.50 / square foot		
ADVERTISING FEE*			\$45
LOCAL ORDINANCE FEE TOTAL			\$1,083.00
For filings resulting from enforcement action, double the Local Ordinance Fee Total			N.A.
NOTES:			
*Application is subject to an additional \$45 Local Advertising Fee payable to the City of Haverhill prior to EACH advertising			
***Local Ordinance Fee maximum of \$100 for applications exceeding 1000'. Commission requires review by outside consultant under M.G.L. Ch. 44, sec. 53G for projects exceeding 1000'. Applicant shall post escrow in accordance with HCC Rules for Hiring Outside Consultants. Cap passed by a 5-0 vote of the Commission on March 7, 2019.			
%Local Ordinance Fees for RDA, NOI, & RMOC increase 50% when project is also proposed within a Riverfront Area			
Local Ordinance Fees passed by a 7 – 0 vote of the Commission on October 28, 2010, effective January 1, 2011			

City Hall Room 300 • 4 Summer Street • Haverhill, MA 01830 • www.cityofhaverhill.org

ROBERT F FERREIRA
10 MICHAEL ANTHONY ROAD
HAVERHILL, MA 01832

5-7515/110

2450

DATE

7/15/26

PAY TO THE
ORDER OF

City of Haverhill

\$ 1,083.00

One Thousand + Eighty Three + 00/100

DOLLARS

Heat
Reactive
Ink

 **Santander**

Santander Bank, N.A.

MEMO

LOCAL ORDINANCE FEE

Robert Ferreira

MP

INK. DETAILS ON BACK.

ROBERT F FERREIRA
10 MICHAEL ANTHONY ROAD
HAVERHILL, MA 01832

5-7515/110

2451

DATE

7/15/26

PAY TO THE
ORDER OF

City of Haverhill

\$ 262.50

Two Hundred Sixty Two + 50/100

DOLLARS

Heat
Reactive
Ink

 **Santander**

Santander Bank, N.A.

MEMO

LOCAL WPA Form 3

Robert Ferreira

MP

INK. DETAILS ON BACK.

ROBERT F FERREIRA
10 MICHAEL ANTHONY ROAD
HAVERHILL, MA 01832

5-7515/110

2452

DATE

7/15/26

PAY TO THE
ORDER OF

Commonwealth of Mass.

\$ 237.50

Two Hundred Thirty Seven + 50/100

DOLLARS

Heat
Reactive
Ink

 **Santander**

Santander Bank, N.A.

MEMO

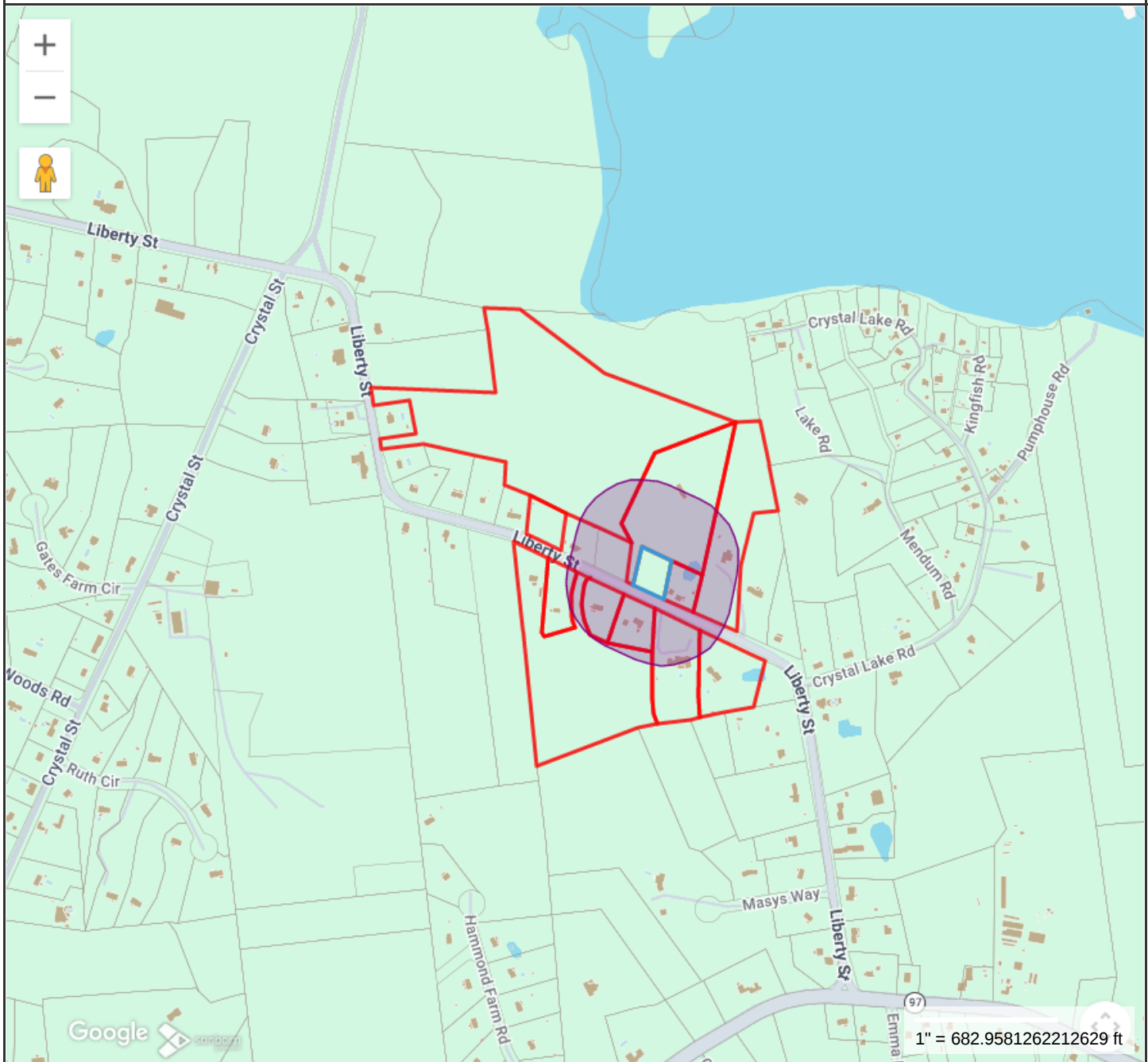
STATE WPA Form 3

Robert Ferreira

MP

INK. DETAILS ON BACK.

Lot 19 300' Abutters

**Property Information**

Property ID 567-1-19
Location LIBERTY ST
Owner FERREIRA POLCARI REALTY TRUST



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

City of Haverhill, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated June 25, 2025
Data updated June 25, 2025

Print map scale is approximate.
Critical layout or measurement
activities should not be done using
this resource.

566-7-17A THE LANCASTER IRREVOCABLE TRUST 113 LIBERTY ST HAVERHILL, MA 01832	567-1-17 BARBRICK MINDY-ETUX 153 LIBERTY ST HAVERHILL, MA 01832	567-1-19 FERREIRA POLCARI REALTY TRUST 10 MICHAEL ANTHONY RD HAVERHILL, MA 01832
567-1-20 HART JOSHUA A ETUX 123 LIBERTY ST HAVERHILL, MA 01832	567-1-3 CITY OF HAVERHILL 4 SUMMER ST HAVERHILL, MA 01830	567-1-3-2 FOGARTY ANDREA D 143 LIBERTY ST HAVERHILL, MA 01832
567-2-8A MILLETTE GERARD H JR-ETUX 140 LIBERTY ST HAVERHILL, MA 01832	567-2-8B FOLEY SARAH K 152 LIBERTY ST HAVERHILL, MA 01832	567-2-8C ROBINSON JOHN W JR 160 LIBERTY ST HAVERHILL, MA 01832
574-2-1G SEAMAN DANIEL J SR ETUX 136 LIBERTY ST HAVERHILL, MA 01832	574-2-1J FORTIER WILLIAM J ETUX 176 LIBERTY ST HAVERHILL, MA 01832	574-2-2A BEDELL MICHAEL B ETUX 110 LIBERTY ST HAVERHILL, MA 01832

Parcel ID	Site Address	Owner	Owner Address	City	State	Zip
566-7-17A	113 LIBERTY ST	THE LANCASTER IRREVOCABLE TRUST	113 LIBERTY ST	HAVERHILL	MA	01832
567-1-17	153 LIBERTY ST	BARBRICK MINDY-ETUX	153 LIBERTY ST	HAVERHILL	MA	01832
567-1-19	LIBERTY ST	FERREIRA POLCARI REALTY TRUST	10 MICHAEL ANTHONY RD	HAVERHILL	MA	01832
567-1-20	123 LIBERTY ST	HART JOSHUA A ETUX	123 LIBERTY ST	HAVERHILL	MA	01832
567-1-3	LIBERTY ST	CITY OF HAVERHILL	4 SUMMER ST	HAVERHILL	MA	01830
567-1-3-2	143 LIBERTY ST	FOGARTY ANDREA D	143 LIBERTY ST	HAVERHILL	MA	01832
567-2-8A	140 LIBERTY ST	MILLETTE GERARD H JR-ETUX	140 LIBERTY ST	HAVERHILL	MA	01832
567-2-8B	152 LIBERTY ST	FOLEY SARAH K	152 LIBERTY ST	HAVERHILL	MA	01832
567-2-8C	160 LIBERTY ST	ROBINSON JOHN W JR	160 LIBERTY ST	HAVERHILL	MA	01832
574-2-1G	136 LIBERTY ST	SEAMAN DANIEL J SR ETUX	136 LIBERTY ST	HAVERHILL	MA	01832
574-2-1J	176 LIBERTY ST	FORTIER WILLIAM J ETUX	176 LIBERTY ST	HAVERHILL	MA	01832
574-2-2A	110 LIBERTY ST	BEDELL MICHAEL B ETUX	110 LIBERTY ST	HAVERHILL	MA	01832



SO.ESSEX #316 Bk:43244 Pg:473
02/26/2026 02:53 PM DEED Pg 1/2

eRecorded

MASSACHUSETTS EXCISE TAX
Southern Essex District ROD
Date: 02/26/2026 02:53 PM
ID: 1699240 Doc# 20260226003160
Fee: \$91.20 Cons: \$20,000.00

QUITCLAIM DEED

I, Heather Elizabeth Dodds, as Trustee of the June Holleran Revocable Trust u/d/t dated August 15, 2019 as evidenced by a Trustee Certificate pursuant to M.G. L. c. 184 §35 recorded with Essex County Southern District Registry of Deeds at Book 40656, Page 283, with an address of with an address of 165 Baboosic Lake Road, Merrimack, New Hampshire

For consideration paid and full consideration of Twenty Thousand and 00/100 (\$20,000.00) Dollars

Grant to Robert F. Ferreira, Jr., and Judie M. Polcari, Trustees of the Ferreira Polcari Realty Trust u/d/t dated November 29, 2023, now of 10 Michael Anthony Road, Haverhill, MA 01832. See Trustee Certificate recorded herewith.

With QUITCLAIM COVENANTS

A certain tract or parcel of land situated in Haverhill, County of Essex and Commonwealth of Massachusetts:

PARCEL 3: Beginning at the southeasterly corner thereof by said Street and by land sold to Davis;
Thence running westerly by said Street 150 feet to a strip of land to be used as a way;
Thence by said land last mentioned 175 feet to land of the grantors easterly 150 feet westerly from said Davis land;
Thence by said land of the grantors easterly 150 feet to said land of Davis;
Thence southerly by said Davis land 175 feet to said Liberty Street and the point begun at.

Meaning and intending to convey the same premises conveyed to the within Grantor by deed of Heather Elizabeth Dodds, Personal Representative of the Estate of June Frances Holleran, Docket #ES19P3763EA dated January 6, 2022 and recorded on January 14, 2022, at Book 40656, Page 285.

This is not the homestead property of the Grantor, notwithstanding, under the penalties and pains of perjury, Grantor hereby releases all rights of homestead, and states that there is no other person entitled to claim homestead rights, in the above-described premises.

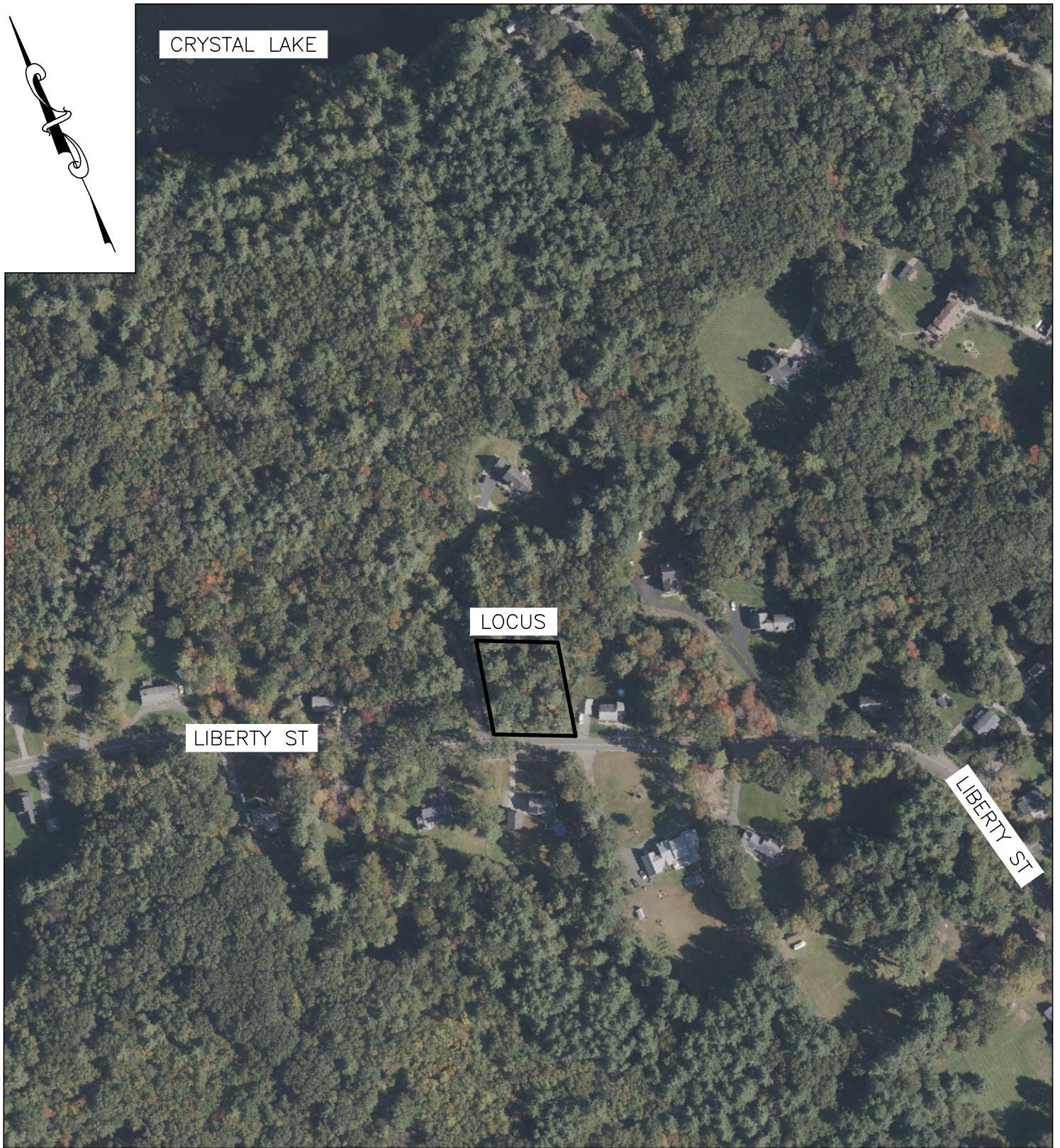
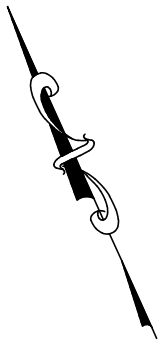
Property Address: Liberty Street, Haverhill, MA 01832 Parcel 567-1-19

NOTICE OF INTENT – CH. 131S40

Town of Haverhill Wetlands Protection Bylaw

SECTION II

Locus Orthophoto
USGS Topographic Map
FEMA Flood Map
NRCS Soils Map



344 North Main Street | Andover • MA 01810
(978) 416-0920 | www.civildci.com

PROJECT:

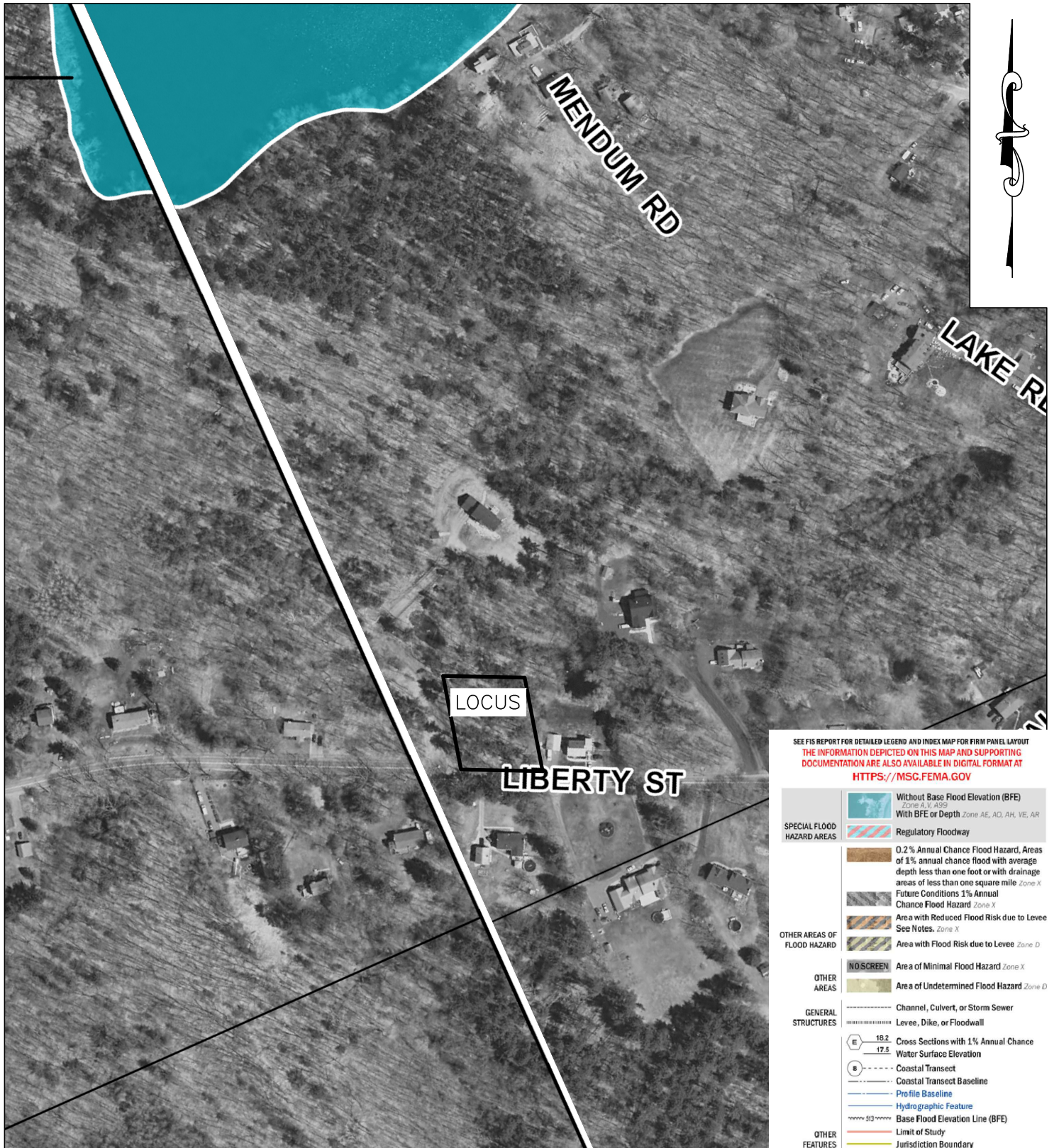
LIBERTY STREET
(567-1-19)
HAVERHILL, MA 01832

PREPARED FOR:

ROBERT F. FERREIRA
10 MICHAEL ANTHONY ROAD
HAVERHILL, MA 01832

**FIGURE 1:
ORTHO**

PREPARED BY: CAL
SCALE: 1"=250'
CDCI FILE #: 26-10884
DATE: JULY, 2026



PROJECT:

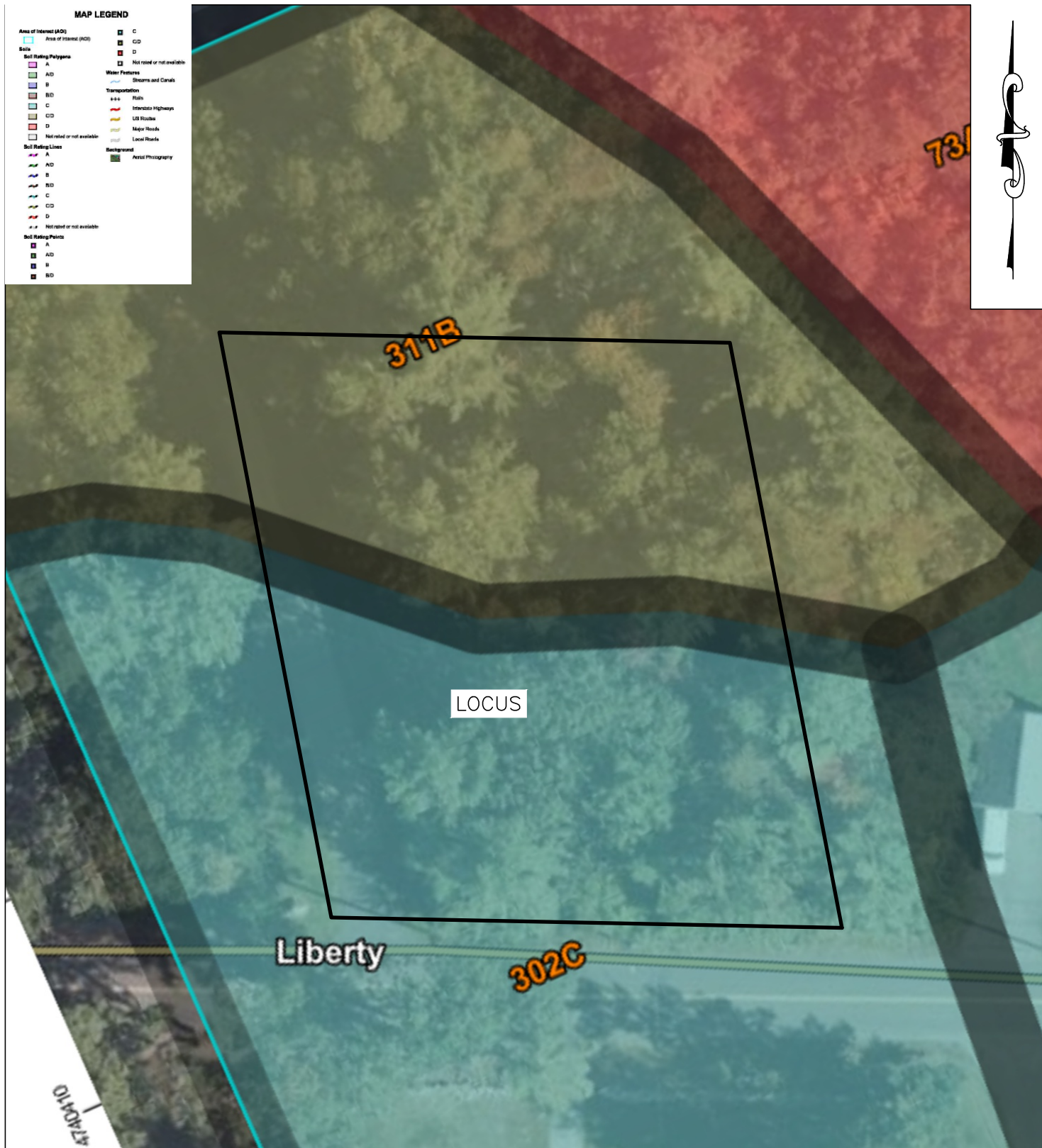
LIBERTY STREET
 (567-1-19)
 HAVERHILL, MA 01832

PREPARED FOR:

ROBERT F. FERREIRA
 10 MICHAEL ANTHONY ROAD
 HAVERHILL, MA 01832

**FIGURE 3:
FEMA**

PREPARED BY: CAL
SCALE: 1"=250'
CDCI FILE #: 26-10884
DATE: JULY, 2026



PROJECT:

LIBERTY STREET
(567-1-19)
HAVERHILL, MA 01832

PREPARED FOR:

ROBERT F. FERREIRA
10 MICHAEL ANTHONY ROAD
HAVERHILL, MA 01832

**FIGURE 4:
NRCS**

PREPARED BY: CAL
SCALE: 1"=40'
CDCI FILE #: 26-10884
DATE: JULY, 2026

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points

 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Essex County, Massachusetts, Northern Part
 Survey Area Data: Version 21, Sep 5, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 1, 2023—Sep 1, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
73A	Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony	D	0.8	22.6%
300B	Montauk fine sandy loam, 3 to 8 percent slopes	C	0.6	15.9%
302C	Montauk fine sandy loam, 8 to 15 percent slopes, extremely stony	C	1.2	34.6%
311B	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	C/D	1.0	26.9%
Totals for Area of Interest			3.6	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

