

5 February 2023

Memo to: Conservation Commission

From: Bartlett Harvey, Representative

Re: 166 Mill Road addition proposal

The house at 166 Mill Road was built on a difficult site, requiring a bridge in the driveway where it crosses an intermittent stream that leads to a wetland. The house is almost entirely within the 100-foot buffer zone around the wetland. Most of the site is wetlands or bordering buffer zones, or steeply sloping.

My client wishes to build a family room addition to the house, to enlarge the kitchen within the house, and to relocate the dining room. He wishes to place the addition to take advantage of the available sunlight, generally towards Mill Road, and to have good connections or flow to and from the kitchen and sitting room at that end of the house. The small side yard of sloping lawn on that side is partly within the 50-foot buffer zone.

Our proposal is to place the addition where it gets the sun exposure that is desired, adds to the flow and utility of the house, and makes the least impact on the site. We have looked at moving the addition so that it does not cross the 50' line, but the sunlight is reduced, and the addition has a poor relationship to the rest of the house, making it seem remote and pointless. We request permission to build where the site and the house layout make the most sense. The proposed footprint does cross the 50-foot setback line.

The lawn around the building is on fill or disturbed soil on all four sides. Where the addition is proposed the fill and lawn slope down to undisturbed grades, vegetation, and wetlands, with enough room on the slope to allow for construction activities and silt/erosion control. The environmental impact of construction on that side of the building is less than for construction off the rear corner of the house, due to the increased difficulty of getting trucks and supplies around the house. The path of construction equipment would be about the same in either case due to the grading around the existing basement door. The rainwater from the roof would be led to drywells and a gravel filled trench at the foundation, but the proposed plan is simple, effective, and keeps water away from the house. Mitigation in the form of native and pollinator friendly plantings in disturbed and other areas is included.

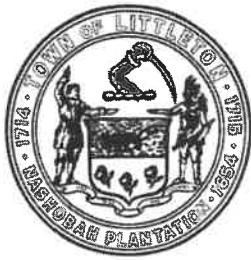
The proposed siting of the addition requires less building materials, being three-sided rather than four, and much less site disruption being nearer the driveway, and a smaller excavation. It makes the least possible disturbance of the site and minimizes truck travel off the driveway. We propose a small permanent disturbance within the 50' zone to avoid a larger disturbance that would also have a larger temporary impact within the 50' zone.

While we understand and support the purpose of wetland protection; our point here is that the 50-foot rule is an arbitrary standard that in this case provides no meaningful increase in protection of the wetlands, as there is nothing natural to be disturbed in the proposed excavation. Moving the addition so that its nearest corner is 53 feet from the wetland delineation line rather than 40 feet makes no difference to the wetlands or the sloping lawn, and makes the addition to the house awkward if not useless, and greatly increases construction disturbance.

Received

FEB 07 2023

Littleton ConCom



Littleton Conservation Commission

37 Shattuck Street / Room 303

Phone: 978 540-2428

Fax: 978 952-2321

Littleton Wetland Protection Regulations

Waiver Request Requirement Information (Section 1.4)

Date: 20 JAN 2023 Applicant/Owner: VINAY SACHDEV

Map/Lot: U-34 / 15 Project Address: 166 MILL ROAD

In order request a waiver, the following provides a guidance for required information (attach additional text, plans, photos or graphics if needed):

Project purpose and need: CONSTRUCT A ONE ROOM ADDITION WITH BASEMENT.
ENLARGE THE KITCHEN, PROVIDE A FAMILY ROOM.

What specific action(s) is the Waiver being asked for? CONSTRUCTION OF A ONE ROOM ADDITION, WITH BASEMENT, PARTIALLY WITHIN THE 50-FOOT BUFFER ZONE. PLACEMENT OF SILT BARRIER, VEHICLE ACCESS, MATERIALS STORAGE, WITHIN 100' BUFFER ZONE.

How is the action(s) in the public interest, necessary to avoid a taking, necessary to prevent a safety hazard or water dependent? PROTECT WETLANDS, PROVIDE MITIGATION PLANTINGS AND IMPROVED STORM DRAINAGE. OTHER LOCATIONS WOULD DIMINISH UTILITY OF THE ADDITION TO MAKE IT NOT FEASABLE.

How is the action(s) consistent with the intent and purpose of the Bylaw?
PROTECT_ADJACENT_WETLANDS, IMPROVE SITE CONDITIONS WITH STORM WATER DRAINING INTO DRYWELLS, REDUCTION OF LAWN AREA, INSTALLATION OF NATIVE AND FLOWERING PLANTINGS. ALL AREAS TO BE DISTURBED ARE ON FILL, AND APPROVED PLANTINGS WILL REPLACE LARGE AREAS OF LAWN.

Existing and proposed site conditions (ie, impervious, lawn & disturbed areas) (square feet; show on plan): SEE PLANS. ADDITION 480 SF, DISTURBED SITE (LAWN) 5,000 SF +/-

Existing and proposed distances of land uses from wetland resource areas (show on plan): SEE PLANS, CLOSEST POINT OF ADITION 40'+/- FROM WETLANDS DELINITION LINE

Analysis of less environmentally damaging practicable alternative: NONE FOUND,
ALTERNATE LOCATION AT REAR OF HOUSE IS MORE DISRUPTIVE AND EQUALY DAMAGING TO
THE SITE. ALSO WOULD MAKE ADDITION USELESS

Proposed short term and long term protection of wetland resource areas: PLACE SILT
BARRIERS AT EDGE OF LAWN-EDGE OF DENSE BRUSH AND DOWNSLOPE FROM WORK SITE.
PLANTINGS OF NATIVE FLOWERING SHRUBS IN DISTURBED AREAS. PROVISION OF DRYWELL
AND INFILTRATION TRENCH FOR WATER DRAINING OFF THE NEW ROOF AND PART OF THE
EXIST ROOF.

Is the site in a Zone I, II or III (groundwater) or Zone A, B or C (surface water) water supply area: YES

Are there critical, unique or sensitive resource areas in the area (ie, NHESP mapped habitat, vernal pools, unusual wetland types, cold water fisheries, outstanding resource waters, Core Habitat, Conservation land, etc); show on plan: NO

Other factors for consideration: _____

Signature: Bartlett Harry **Project:** 166 MILL ROAD



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

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):

166 MILL ROAD	LITTLETON	01460
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
-71.48948 42.53431		
U-34	15	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

VINAY	SACHDEV	
a. First Name	b. Last Name	
c. Organization		
166 MILL ROAD		
d. Street Address		
LITTLETON	MA	01460
e. City/Town	f. State	g. Zip Code
617 513 7090	VSACHDEV@GMAIL.COM	
h. Phone Number	i. Fax Number	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):

BARTLETT	HARVEY	
a. First Name	b. Last Name	
c. Company		
32 LAKE WARREN DR		
d. Street Address		
LITTLETON	MA	01460
e. City/Town	f. State	g. Zip Code
978 501 2357	BARTLETTHARVEY1@GMAIL.COM	
h. Phone Number	i. Fax Number	j. Email address

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

110.00	42.50	67.50+55=122.50
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

1 ROOM ADDITION WITH BASEMENT

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

1. <input checked="" type="checkbox"/> Single Family Home	2. <input type="checkbox"/> Residential Subdivision
3. <input type="checkbox"/> Commercial/Industrial	4. <input type="checkbox"/> Dock/Pier
5. <input type="checkbox"/> Utilities	6. <input type="checkbox"/> Coastal engineering Structure
7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry)	8. <input type="checkbox"/> Transportation
9. <input type="checkbox"/> 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:

MIDDLESEX

a. County
59452
c. Book

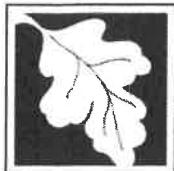
b. Certificate # (if registered land)
564

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.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet
<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet 3. cubic feet of flood storage lost	2. square feet 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - specify coastal or inland	
2. Width of Riverfront Area (check one):	<input type="checkbox"/> 25 ft. - Designated Densely Developed Areas only <input type="checkbox"/> 100 ft. - New agricultural projects only <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6. Was the lot where the activity is proposed created prior to August 1, 1996?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3. <input type="checkbox"/> Coastal Resource Areas: (See 310 CMR 10.25-10.35)		

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



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

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

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

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



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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

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/ma-endangered-species-act-mesa-regulatory-review>).

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

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



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

(c) MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

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

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1. Project is exempt from MESA review.

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

2. Separate MESA review ongoing.

a. NHESP Tracking #

b. Date submitted to NHESP

3. Separate MESA review completed.

Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

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

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

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

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

North Shore - Hull to New Hampshire border:

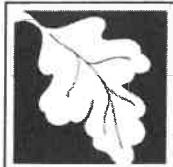
Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: dmf.envreview-south@mass.gov

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

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



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

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC

5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?

a. Yes No

6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?

a. Yes No

7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?

a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
2. A portion of the site constitutes redevelopment
3. Proprietary BMPs are included in the Stormwater Management System.

b. No. Check why the project is exempt:

1. Single-family house
2. Emergency road repair
3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

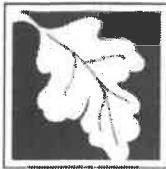
D. Additional Information

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

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

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

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



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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.
Existing, proposed, Mitigation, site section, Floor Plan, all JAN 20 2023

a. Plan Title

b. Prepared By Bartlett Harvey

c. Signed and Stamped by

d. Final Revision Date 20 January 2023

e. Scale 1"=20', 1"=8'

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:

462

6 FEB 2023

2. Municipal Check Number

463

3. Check date

6 FEB 2023

4. State Check Number

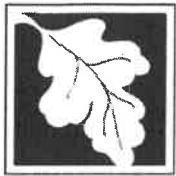
VINAY

5. Check date

SACHDEV

6. Payor name on check: First Name

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

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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.

1. Signature of Applicant

20 JAN 2023

3. Signature of Property Owner (if different)

2. Date

5. Signature of Representative (if any)

4. Date

6 FEB 2023
20 JAN 2023

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.

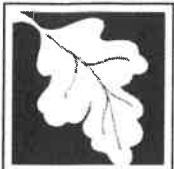
For MassDEP:

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:

166 MILL ROAD
a. Street Address
c. Check number
LITTLETON
b. City/Town
42.50
d. Fee amount

2. Applicant Mailing Address:

VINAY
a. First Name
SACHDEV
b. Last Name
c. Organization
166 MILL ROAD
d. Mailing Address
LITTLETON
e. City/Town
f. State
01460
617 513 7090
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

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



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

B. Fees (continued)

C. Submittal Requirements

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

Department of Environmental Protection
Box 4062
Boston, MA 02211

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

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



**TOWN OF LITTLETON
BOARD OF ASSESSORS**

P.O. BOX 1305
LITTLETON, MA 01460
(978) 540-2410
FAX: (978) 952-2321

Date: October 20, 2022

Re: Certified List of Abutters Conservation Commission

Applicant: Bartlett Harvey

Name of Firm:

Mailing Address 32 Lake Warren Dr. Littleton, 01460

Subject Parcel Location: 166 Mill Road

Subject Parcel No.: U34 15 0

Subject Owner Name: Vinay Sachdev

M.G.L. Chapter 131: Section 40 "Any person filing a notice of intention with a conservation commission shall at the same time give written notification thereof, by delivery in hand or certified mail, return receipt requested, to all abutters within one hundred feet of the property line of the land where the activity is proposed, but not limited to, owners of land directly opposite said proposed activity on any public or private street or way, and in another municipality or across a body of water. When a notice of intent proposes activities on land under water bodies and waterways or on a tract of land greater than 50 acres, written notification shall be given to all abutters within 100 feet of the proposed project site. For the purposes of this action, "project site" shall mean lands where the following activities are proposed to take place: dredging, excavating, filling, grading, the erection, reconstruction or expansion of a building or structure, the driving of pilings, the construction or improvement of roads or other ways and the installation of drainage, sewerage and water systems, and "land under water bodies and waterways" shall mean the bottom of, or land under, the surface of the ocean or an estuary, creek, river stream, pond or lake. When a notice of intent proposes activity on a linear shaped project site longer than 1,000 feet in length, notification shall be given to all abutters within 1,000 feet of the proposed project site. If the linear project site takes place wholly within an easement through another person's land, notice shall also be given to the landowner. Said notification shall be at the applicant's expense, and shall state where copies of the notice of intention may be examined and obtained and where information regarding the date, time and place of the public hearing may be obtained. Proof of such notification, with a copy of the notice mailed or delivered, shall be filed with the conservation commission."

I hereby certify the attached list of abutter (s) as stated in the M.G.L. Chapter 131, Section 40.

Number of Abutter (s) 13

Certified by:

A handwritten signature in black ink, appearing to read "April Iannacone".

April Iannacone, Assistant Assessor

NOTIFICATION TO ABUTTERS

Modified for Covid-19 Emergency Response

Notice of Intent or abbreviated Notice of Resource Area Delineation

Under MA Wetlands Protection Act and Littleton Wetlands Protection ByLaw (Chapter 171), this form must be completed and mailed, certified mail return receipt requested, to all abutters at their mailing addresses shown on the most recent Town Assessor's records as well as the owner (if not applicant).

In accordance with the MA Wetlands Protection Act and Littleton Wetlands Protection ByLaw Chapter 171-2D, you are hereby notified of a public hearing on the matter described below:

- A. The applicant has filed a Notice of Intent with the Littleton Conservation Commission for work in an area subject to protection under the Massachusetts Wetlands Protection Act and Littleton Wetlands Protection ByLaw.
- B. The name of the applicant is VINAY SACHDEV
- C. The address of the land where the activity is proposed is 166 MILL ROAD
- D. The work proposed CONSTRUCTION OF ONE ROOM ADDITION WITH BASEMENT
- E. Due to the Commonwealth and Town of Littleton's Covid-19 Emergency Response, it is anticipated that paper copies of the Notice of Intent will not be available for inspection. Copies of the Notice of Intent may be examined at the Conservation Commission webpage at <https://www.littletonma.org/conservation>, under "Conservation Calendar" at least 48 hours before the meeting. If you click on the day of the meeting in the Calendar, you will be lead to a link showing posted project information. If you have questions you can contact the Littleton Conservation Commission (contact information at the end of this notice).
- F. Due to the Commonwealth and Town of Littleton's Covid-19 Emergency Response, it is anticipated that paper copies of the Notice of Intent will not be available for distribution. Copies of the Notice of Intent may be obtained electronically from (check one) the applicant or X the applicant's representative by calling 978-501-2357 during the following times:
8 AM TO 8 PM ANY DAY
- G. The public hearing will be held on FEB 21 2023. Information regarding the date and time of the public hearing may be obtained from the Littleton Conservation Commission (see contact info at the end of this notice).

H. Notice of the public hearing, including date, will be published at least five business days in advance in a paper of local circulation. The agenda, noting times will be posted at Town Hall and at <https://www.littletonma.org/conservation> under "Conservation Calendar" at least 48 hours in advance of the meeting. It is currently anticipated that this meeting will be held entirely remotely, pursuant to Governor Baker's March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law and Governor Baker's March 15, 2020 Order imposing strict limitations on the number of people that may gather in one place. If the meeting is held remotely, instructions for remote viewing of, and participation in, the meeting will be included in the agenda and may also be obtained from the Littleton Conservation Commission.

You may contact the Littleton Conservation Commission Coordinator (Amy Green; agreen@littletonma.org; 978-540-2428), or the Massachusetts Department of Environmental Protection/ Central Region (508-792-7650) at 8 New Bond Street, Worcester, MA 01606 for information about this application

AFFIDAVIT OF SERVICE

Notice of Intent

Abbreviated Notice of Resource Area Delineation

Under Massachusetts Wetlands Protection Act and the Littleton Wetlands Protection ByLaw (Chapter 171), this form must be completed and submitted with the Notice of Intent or Abbreviated Notice of Resource Area Delineation.

I, BARTLETT HARVEY _____ certify under the pains and penalties of perjury that on 1--2 FEB 2023 (date) I gave notification to abutters in compliance the second paragraph of the Massachusetts General Laws Chapter 131, Section 40, DEP requirements for Abutter Notification and with the Littleton Wetlands ByLaw 171-2.D in connection with the following matter:

A _____ NOI _____ (NOI or ANRAD) filed under the Massachusetts Wetlands Protection Act and Littleton Wetlands Protection ByLaw by VINAY SACHDEV _____ (name of applicant) with the Littleton Conservation Commission on 5 FEB 2023 (date) for the property located at 166 MILL ROAD _____ (address of land where work is proposed).

The list of abutters with their addresses and a copy of the Notification Abutter form as sent to the abutters is attached to this Affidavit of Service.

BARTLETT HARVEY _____

_____5 FEB. 2023 _____

Name

Date

69 FOSTER ST. U20 21 0 LUC 101
BAUSEMER PATRICK E
BAUSEMER MEREDITH
59 FOSTER STREET
LITTLETON, MA 01460
Mer

55 FOSTER ST. U20 22 0 LUC 101
REYNOLDS KEITH G
REYNOLDS JULIE A
55 FOSTER ST.
LITTLETON, MA 01460
Keith & Julie

51 FOSTER ST. U20 23 0 LUC 101
LIZEK TIMOTHY P
LIZEK SARAH B
51 FOSTER ST.
LITTLETON, MA 01460
Tim & Sarah

47 FOSTER ST. U20 24 0 LUC 105
LÄNDFORS KURT B
CUDMORE SUSAN L
47 FOSTER ST.
LITTLETON, MA 01460
Susan Cudmore

10 PRIEST LN. U20 25 0 LUC 101
THE SUSAN J DWYER TRUST
DWYER SUSAN J TRUSTEE
10 PRIEST LN
LITTLETON, MA 01460
Susan J. Dwyer

166 MILL RD U34 15 0 LUC 101
SACHDEV VINAY S
WARADE GHETNA D
166 MILL RD
LITTLETON, MA 01460
Sweta

168 MILL RD U34 16 0 LUC 101
PHILPOTT ALEXANDRE S
168 MILL RD
LITTLETON, MA 01460
Alexander S. Philpott

168 MILL RD U34 21 0 LUC 101
PODLENSKI INVESTMENT TRUST
PODLENSKI STANLEY J - TRUSTEE
77 FOSTER ST
LITTLETON, MA 01460
Stanley Podlenski

169 MILL RD U35 15 0 LUC 101
MIZZONI MICHAEL
17 DELANEY DR
LITTLETON, MA 01460

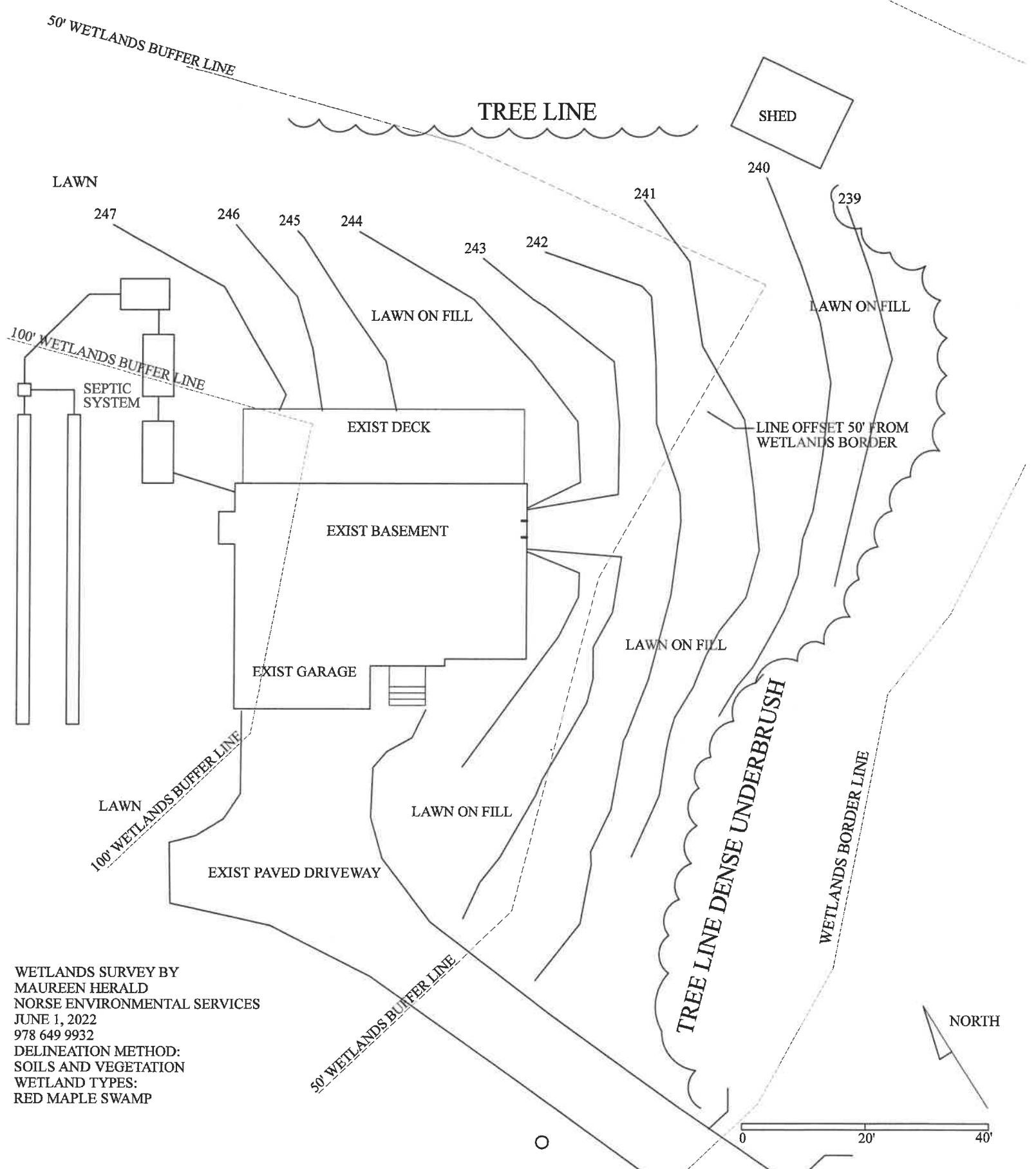
166 MILL RD U36 15 0 LUC 101
DANIEL & LAURIE SHURRIN LIVING
SHURRIN DANIEL & LAURIE, TRS
166 MILL ROAD
LITTLETON, MA 01460
Laurie Shurfin

162 MILL RD U36 15 1 LUC 101
ZOU SHINING
YANG BO
162 MILL RD
LITTLETON, MA 01460
B.Y.

164 MILL RD U36 15 2 LUC 101
HERINO FRANK D
164 MILL RD
LITTLETON, MA 01460
Frank D. Herino

168

169

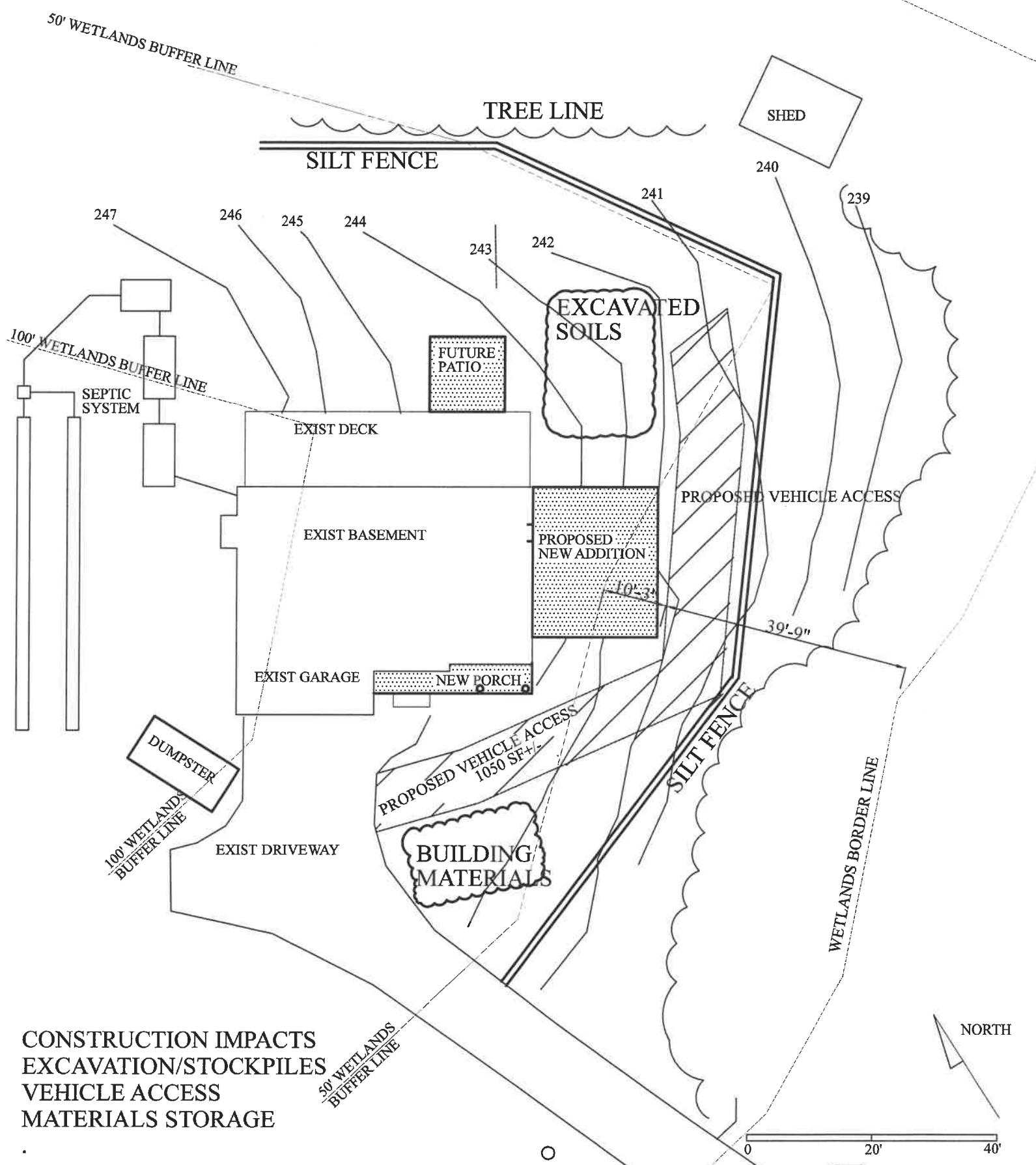


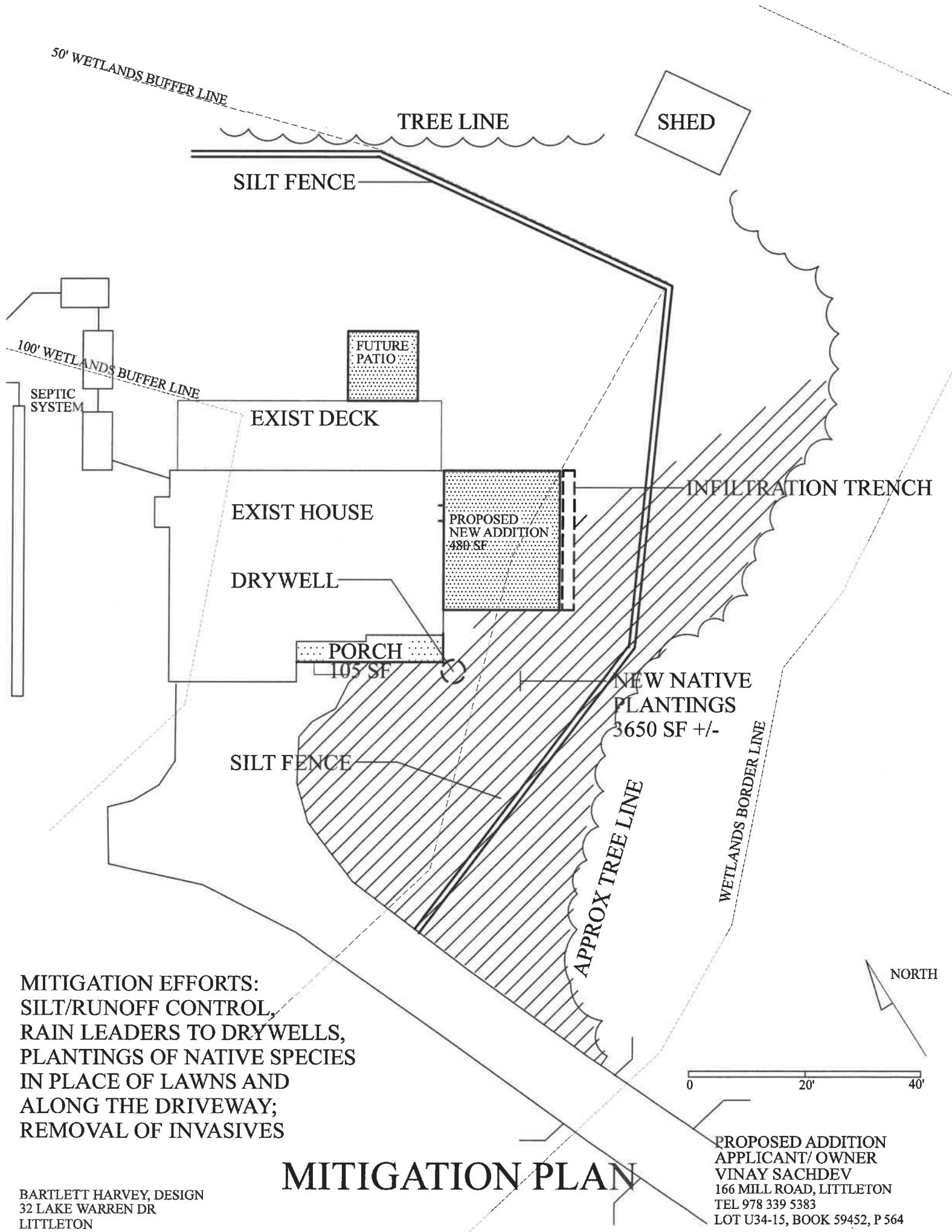
EXISTING SITE PLAN

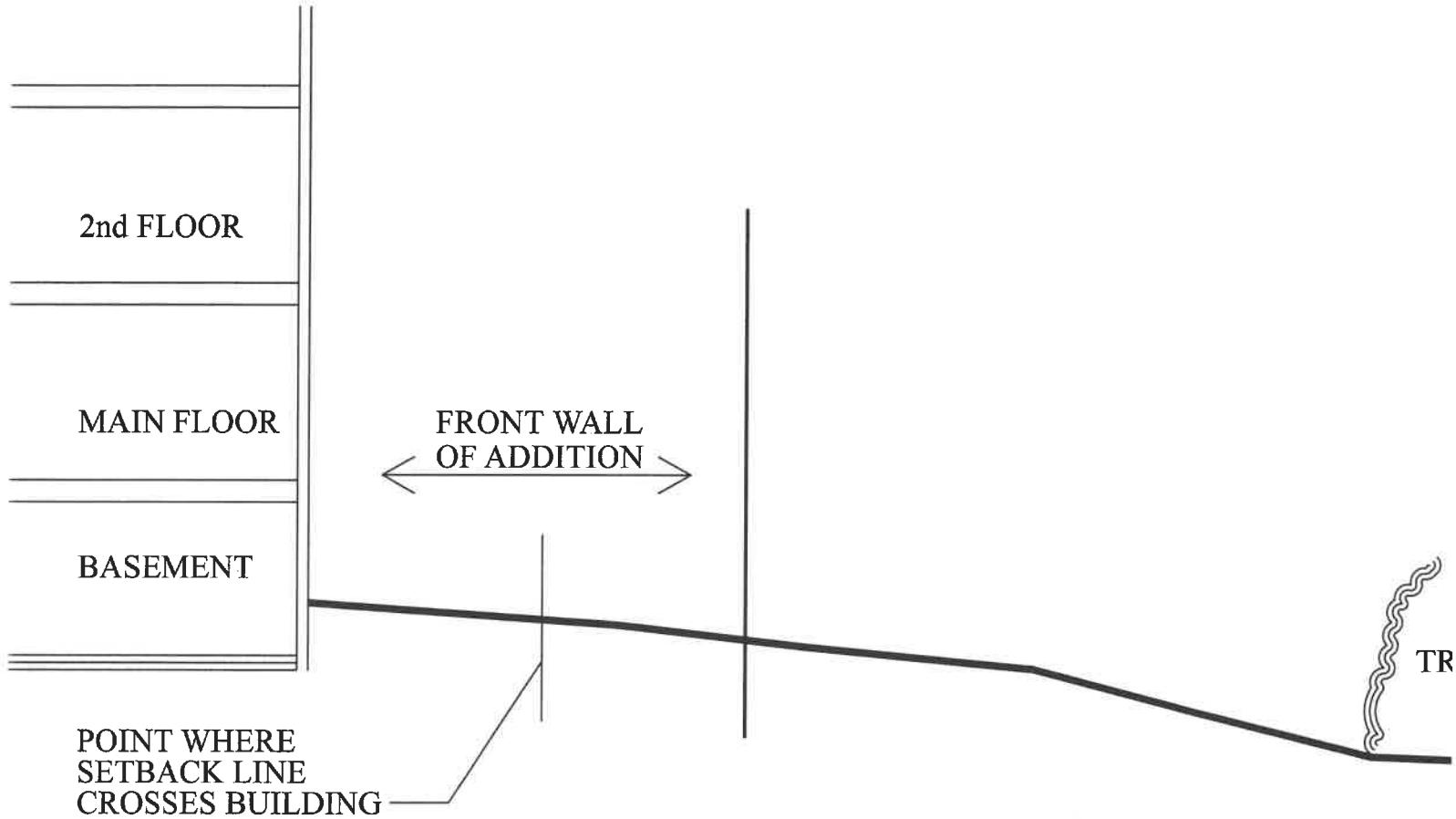
WETLANDS SURVEY BY
 MAUREEN HERALD
 NORSE ENVIRONMENTAL SERVICES
 JUNE 1, 2022
 978 649 9932
 DELINEATION METHOD:
 SOILS AND VEGETATION
 WETLAND TYPES:
 RED MAPLE SWAMP

BARTLETT HARVEY, DESIGN
 32 LAKE WARREN DR
 LITTLETON
 978 501 2357, bartletharvey1@gmail.com

PROPOSED ADDITION
 APPLICANT/ OWNER
 VINAY SACHDEV
 166 MILL ROAD, LITTLETON
 TEL 978 339 5383
 LOT U34-15, BOOK 59452, P 564
 20 JAN. 2023 SCALE 1"=20'

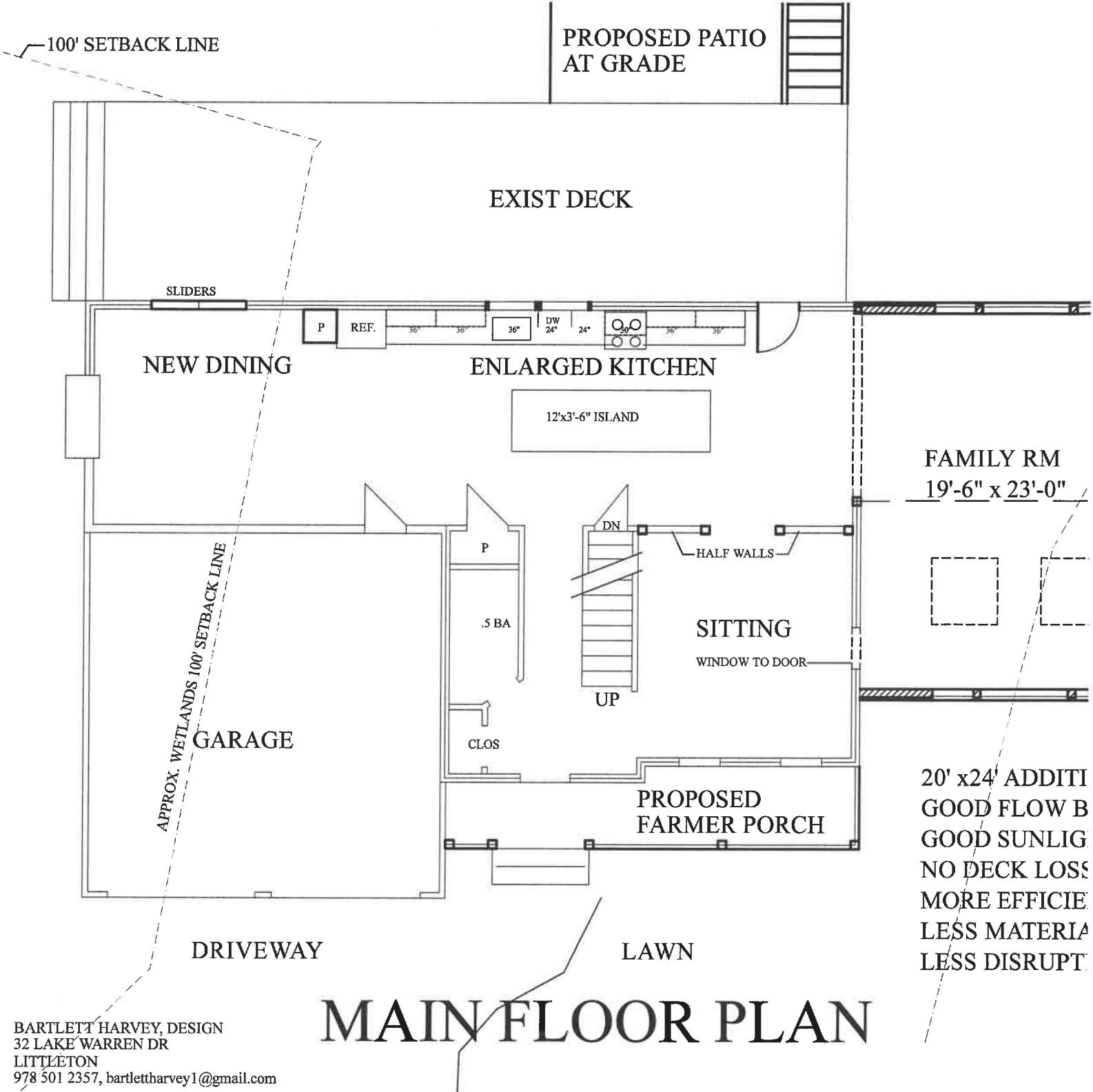




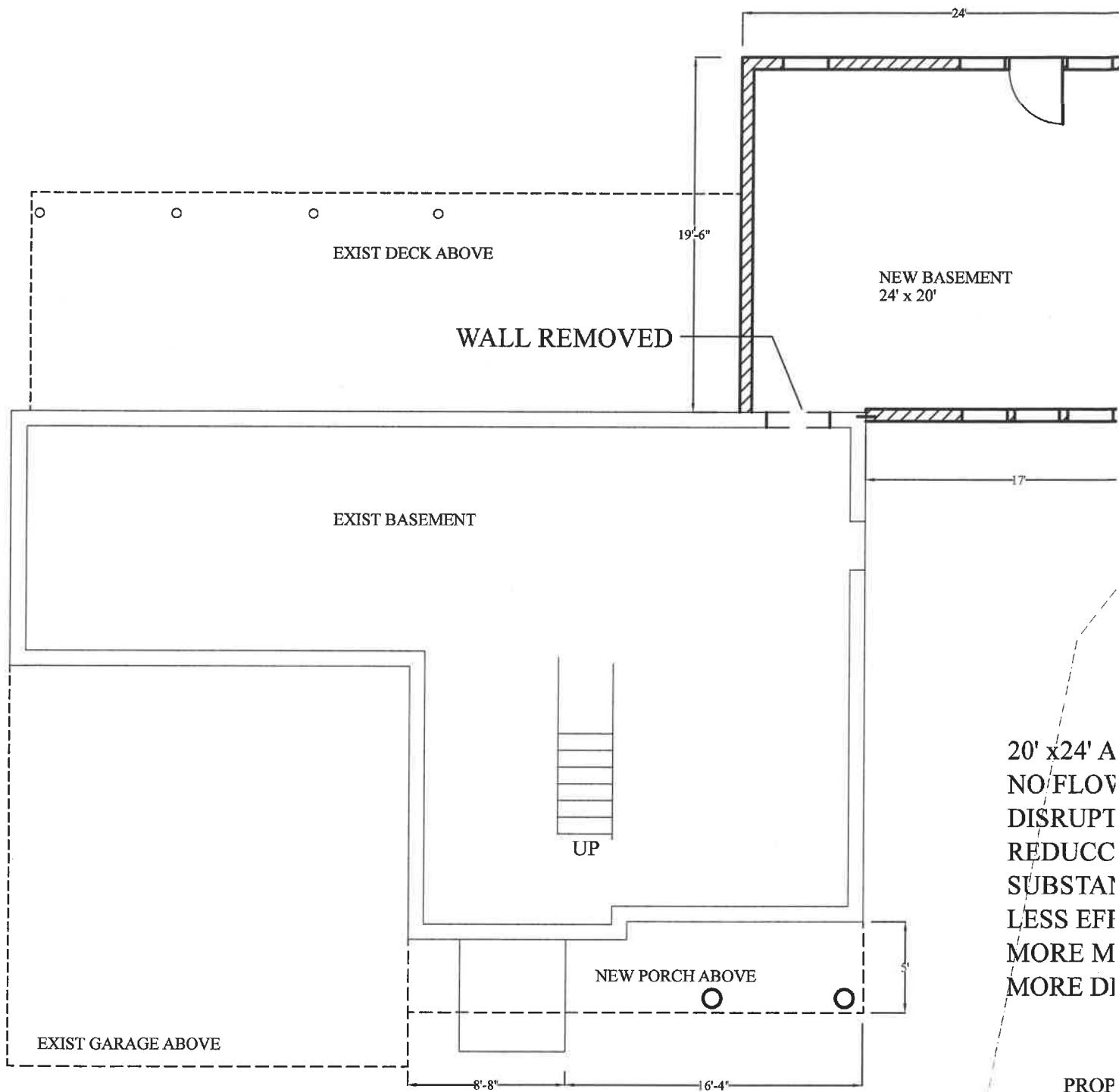


SITE SECTION AT FRONT WALL OF ADDITION

BARTLETT HARVEY, DESIGN
32 LAKE WARREN DR
LITTLETON
978 501 2357, bartletharvey1@gmail.com

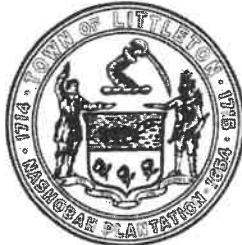


BARTLETT HARVEY, DESIGN
32 LAKE WARREN DR
LITTLETON
978 501 2357, bartletharvey1@gmail.com



BASEMENT PLAN

BARTLETT HARVEY, DESIGN
32 LAKE WARREN DR
LITTLETON
978 501 2357, bartletharvey1@gmail.com

**Littleton Conservation Commission**

37 Shattuck Street / Room 303

Phone: 978 540-2428

Fax: 978 952-2321

Filing Procedure Summary
Submit this checklist with application
(rev December 20, 2021)

The following procedures must be followed when filing under M.G.L. c. 131, §40 or the Littleton Wetlands Protection, Chapter 171 for a wetland permit. The procedure applies to Notice of Intents, Abbreviated Notice of Intents, Request for Determinations, and Abbreviated Notice of Resource Area Determinations.

This summary is not to be considered all inclusive and in no way should an applicant misconstrue its contents to replace any part of M.G.L. c. 131, §40 or the Littleton Wetlands Protection, Chapter 171.

(1) one electronic file of complete submittal emailed to the Conservation Agent and 2 hard copies (with full sized, color plans) filed with the Conservation Commission hand delivered or mailed and received in the office before noon of filing deadline. Additional copies may be required of some projects. Please call ahead to determine meeting dates and filing deadlines.

(1) one complete copy of the application must be filed with Department of Environmental Protection
at: Department of Environmental Protection
8 New Bond Street
Worcester, Massachusetts 01608

During COVID Emergency Provisions, MADEP also requires an electronic file sent to CERO NOI@mass.gov (underscore between CERO and NOI)

With the Subject line based on this format "LITTLETON -xxx-STREET ADDRESS – APPLICANT NAME. The "xxx" will be NOI, ANRAD or RDA

The applicant must include a certified list of abutters (including those in adjacent Towns) located within 100 feet of the property boundaries, according to the most recent records of the Town Assessors, or as determined by MADEP policy on abutter notification. If a Town line is within 300 feet of the Limit of Work, then that Town's Conservation Commission must also be notified.

The applicant, at the applicant's expense, shall post to each abutter (and owner if owner is not applicant) by Certificated Mail (Return Receipt Requested), or by hand delivery with signature of abutter a copy of the Abutter Notification Form. An Affidavit of Service of such notification shall also be provided. Abutters' signed acknowledgement of notification (ie, green Return Receipt cards) shall be provide at the first public meeting/hearing. See the Littleton Conservation Commission website for the Abutter Notification Form or call the Agent.

At the applicant's expense, the Commission shall publish a legal notice in a newspaper of local circulation announcing the public hearing. The Notice will be published at least five (5) working days prior to the meeting and will include the date, time and location of the public hearing. The newspaper will bill the applicant directly. This bill must be paid before the legal notice will be published. **Please provide information on who will pay the newspaper (owner, applicant and/or representative) with the application.**

Name VINAY SACHDEV

Company (if applicable) _____

Mailing Address 166 MILL ROAD

E-mail VSACHDEV@GMAIL.COM

Phone 617 513 7090

Filing fees for MADEP and Town of Littleton under the MA Wetlands Protection Act regulations, as well as the Littleton Wetlands Protection ByLaw filing fee.

Plans Checklist to accompany application for Notice of Intent (NOI). This is a Bylaw Supplemental form to aid you in submitting complete and appropriate information on your plans. These are suggested/expected items to be shown on the plans but will not necessarily be applicable to all projects. Note that the Commission generally requires a colored plan for presentation purposes.

All lines must be marked X or identified as Not Applicable ("N/A"), or noted as to where the information can be found.

(1) North arrow Locus insert Bar scale (preferably 1 in = 20 to 40 ft.)

(2) Title Block with Following Information:

Plan Title

Applicant's Name(s), address & phone

Property Owner Name(s), address & phone

Location/street name & number

Assessor map, lot, Registry book, page on all lots w/activity

Plan preparer's name, title, stamp, company name, address phone & fax

Date plan prepared, last revised, and revision notes

(3) Existing contours

(4) Existing structure(s) with natural and man-made features, including stone walls and trails

(5) Trees over 8-inch diameter breast height within resource areas and buffer zones

(6) Property lines; clearly mark limits of review area if entire property is not under review

(7) Existing utilities, rights-of-way, easements, ancient ways or other deeded ways

(8) Name of wetland scientist responsible for identifying wetland boundaries

(9) Date wetland was flagged (must be no more than 3 years prior to current date)

(10) Wetland resource area boundaries with flag numbers

(11) 100 foot buffer zone limits and 50-foot No Disturb limit

(12) Notations identifying all wetland types and delineation methodology

(13) Shortest distance to all resource areas from closest proposed structure (use arrow)

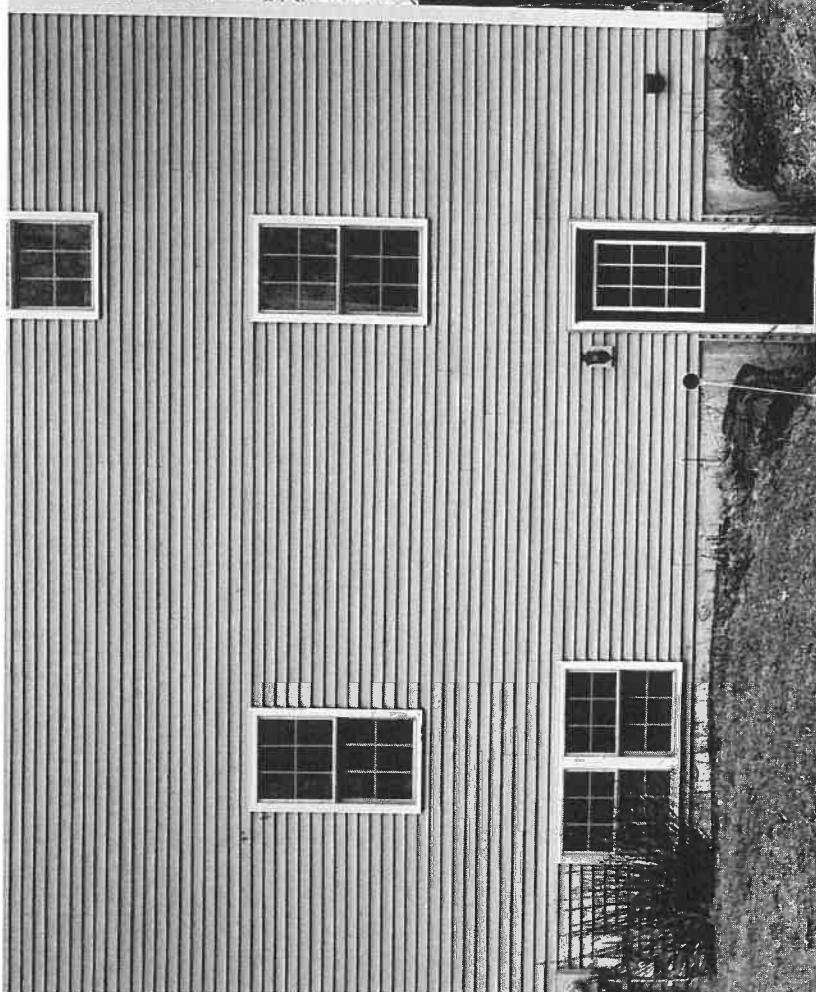
- (14) Shortest distance to all resource areas from closest point of erosion control materials
- (15) Proposed contours (one foot increments)
- (16) NA Proposed location of utility lines
- (17) Proposed structure(s) (including driveway work, septic components, etc)
- (18) Existing and proposed stormwater management features (including temporary controls)
- (19) NA Watersheds and drainage areas
- (20) NA Test pit, boring holes and logs
- (21) NA Conservation post detail and plaque detail
- (22) Location of temporary stockpiles w/notation of content (e.g. excavated soils)
- (23) NA Location of snow storage areas
- (24) Location of dumpster(s)
- (25) Cross-sections, particularly at key areas of slopes near wetland resource areas
- (26) Mitigation plans as needed
- (27) NA Construction sequencing
- (28) Details as applicable, including type of erosion controls

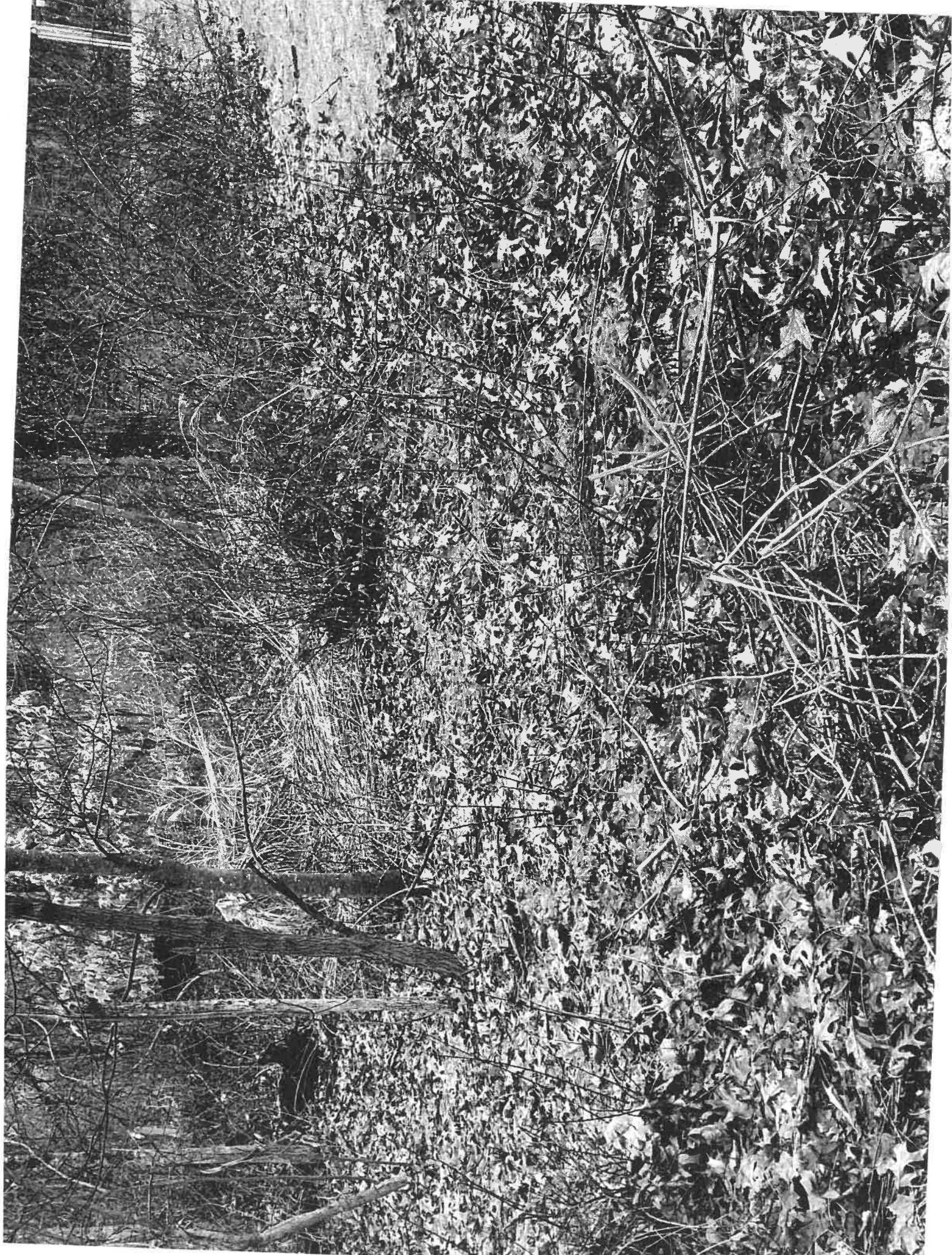
One full sized color plans (and presentation plan) should be colored as follows.

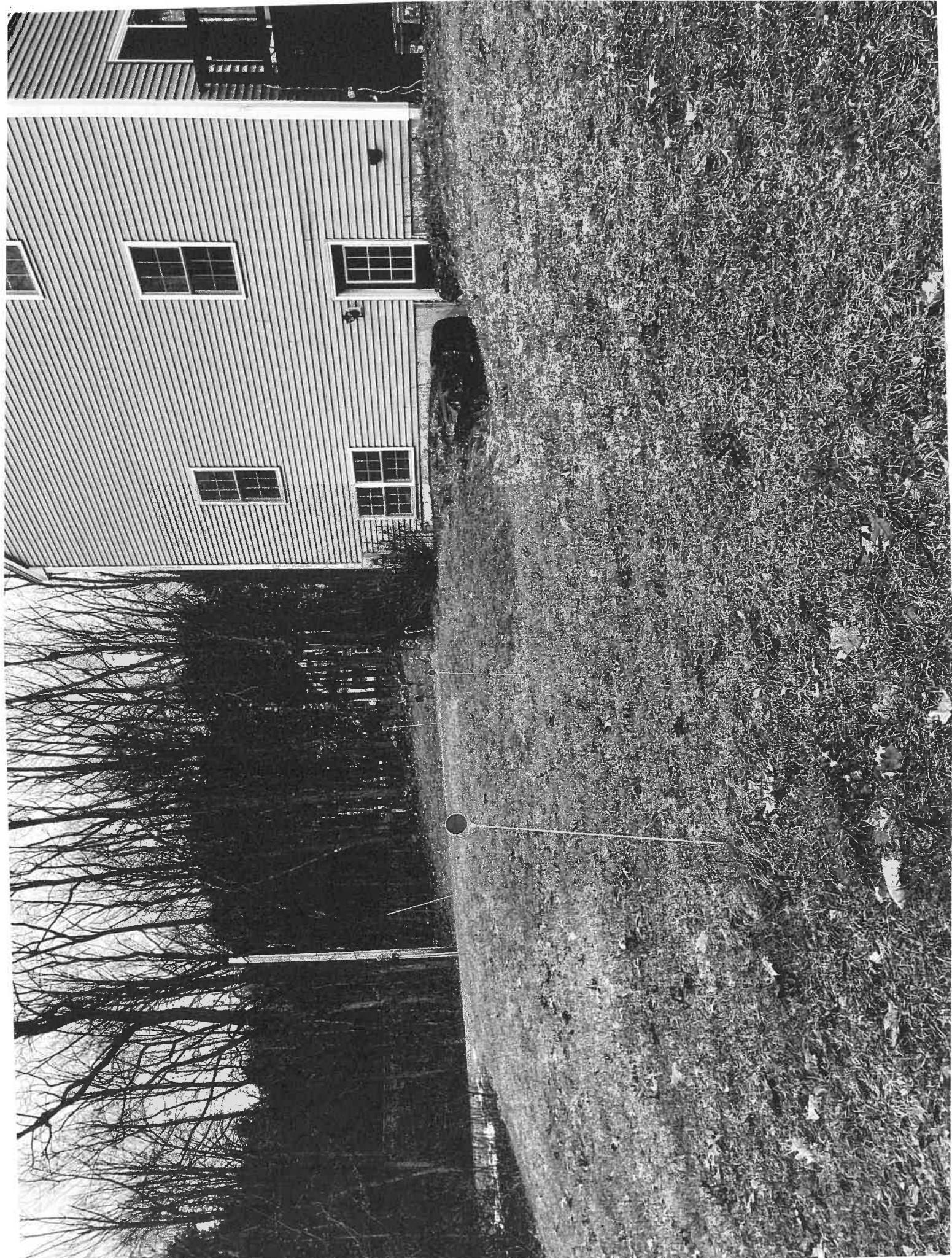
Check if present	Feature	Line Type
	Existing tree line	Green solid
	Proposed tree line	Green dashed
	Bordering Vegetated Wetlands*	Dark blue solid
	Bank/Land Under Water	Light blue dashed
	100 foot buffer from BVW and/or Bank	Yellow solid
	50 foot No Disturb limit from BVW and/or Bank	Yellow dashed
	Vernal Pool	Purple solid
	Vernal Pool 100 foot	Purple dashed
	Bordering Lands Subject to Flooding	Orange solid
	Isolated Lands Subject to Flooding	Orange dashed
	Mean Annual High Water	Light red solid
	100 foot and 200 foot Riverfront Area	Light red dashed
	Bank, Wetland, Land Under Water, Riverfront Area and Floodplain	Red solid with differentiated stippling/cross hatching
	Mitigation Area	Red dashed line with differentiated stippling/cross hatching
	Erosion controls	Brown dashed
	Limit of work	Brown solid

*Note locations of any federal, non-state isolated vegetated wetlands











NORSE ENVIRONMENTAL SERVICES, INC.
92 Middlesex Road, Unit 4
Tyngsboro, MA 01879
TEL. (978) 649-9932 • FAX (978) 649-7582
Website: www.norseenvironmental.com

August 12, 2022

Mr. Vinay Sachdev
166 Mill Road
Littleton, MA 01460

Re: 166 Mill Road
Littleton, MA 01460

Mr. Sachdev,

Norse Environmental Services, Inc. performed a site visit on June 1, 2022, to flag the resource areas at the above property. The property has an existing single-family dwelling, deck, driveway and shed. A Bordering Vegetated Wetland is located along the perimeter of the property and flagged in the field with blue ribbon and aluminum tags labeled 1A-20A.

The wetland is a red maple swamp and consists of red maple (*Acer rubrum*), sugar maple (*Acer saccharum*), America elm (*Ulmus americana*) and black locust (*Robinia pseudoacacia*) in the overstory. The understory consists of tartarian honeysuckle (*Lonicera tatarica*), glossy buckthorn (*Rhamnus frangula*) burning bush (*Euyonymus atropurpureus*) and barberry (*Myrica pensylvanica*). The herbaceous layer consists of sensitive fern (*Onoclea sensibilis*), cinnamon fern (*Osmunda cinnamomea*) and skunk cabbage (*Symplocarpus foetidus*).

The Web Soil Survey maps the site as a Hinckley and Whitman soils. Hinckley soils consists of nearly level to very steep, deep (5+ ft.), excessively drained soils on glacial outwash plain, terraces, kames, and eskers. They formed in gravelly and cobbly coarse textured glacial outwash. Hinckley soils have friable or loose gravelly and very gravelly sandy loam to loamy coarse sand surface soil and subsoil with rapid permeability, with loose stratified sands and gravels in the substratum at 12 to 30 inches which have very rapid permeability. Major limitations are related to slope and droughtiness.

Whitman soils consist of nearly level, deep (5+ ft.), very poorly drained soils in depressions and drainageways of uplands. They formed in compact glacial till. Whitman soils have friable and loam or fine sandy loam surface soil and subsoil with moderate or moderately rapid permeability over a firm sandy loam, fine sandy loam or loam substratum (hardpan) at 10 to 30 inches which has a slow or very permeability. They have a perched high-water table at or near the surface

most of the year. Whitman soils have a very stony or extremely stony surface, except where stones have been removed.

The USGS Topographic Map shows intermittent streams traversing through the property. The FEMA mapping shows no Bordering Land Subject to Flooding or 100-year flood plain. The site is not mapped within Estimated/Priority Habitat or show any certified vernal pools as designated by the Natural Heritage and Endangered Species Program.

Enclosed are the DEP BVW Field Data Forms and maps of the site. If you have any questions or concerns regarding the above information, please do not hesitate to call.

Sincerely,

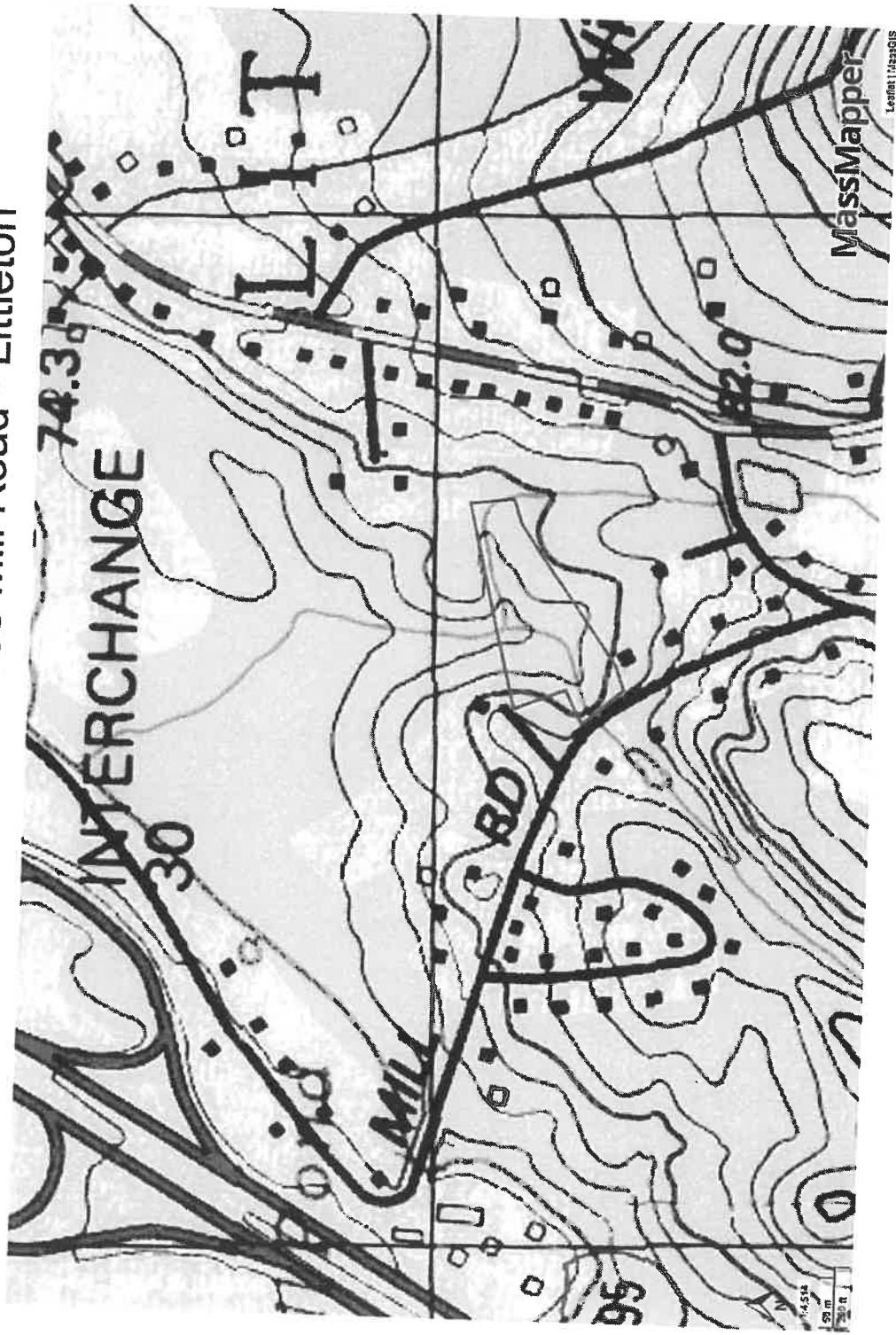
Maureen Herald

Maureen Herald, PWS, CWS

166 Mill Road - Littleton

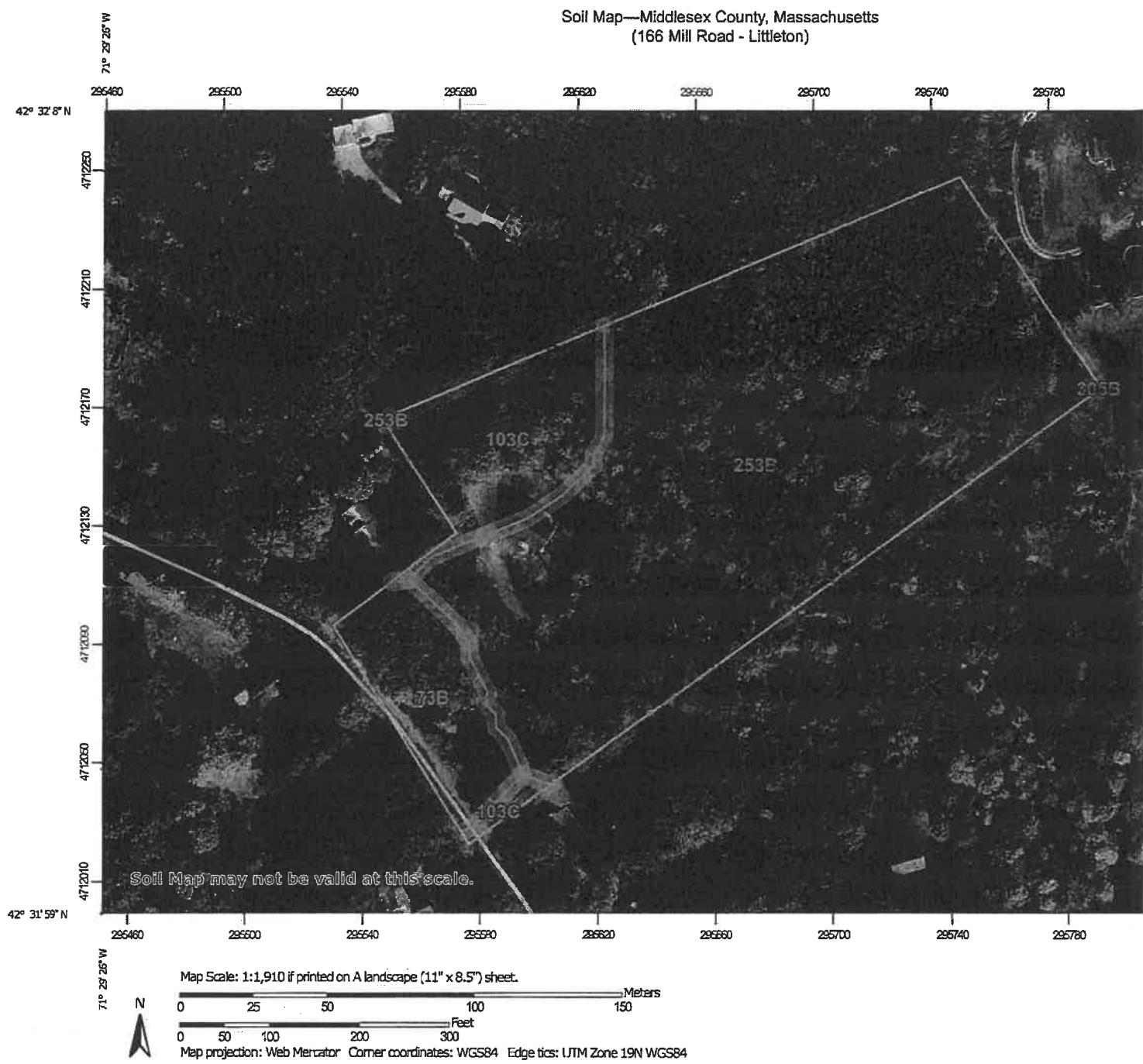


166 Mill Road - Littleton



USGS Topographic Maps
Property Tax Parcels

Soil Map—Middlesex County, Massachusetts
(166 Mill Road - Littleton)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

MAP INFORM

Area of Interest (AOI)	
	Area of Interest (AOI)
Soils	
	Soil Map Unit Polygons
	Soil Map Unit Lines
	Soil Map Unit Points
Special Point Features	
	Blowout
	Borrow Pit
	Clay Spot
	Closed Depression
	Gravel Pit
	Gravelly Spot
	Landfill
	Lava Flow
	Marsh or swamp
	Mine or Quarry
	Miscellaneous Water
	Perennial Water
	Rock Outcrop
	Saline Spot
	Sandy Spot
	Severely Eroded Spot
	Sinkhole
	Slide or Slip
	Sodic Spot
Water Features	
	Streams and Canals
Transportation	
	Rails
	Interstate Highways
	US Routes
	Major Roads
	Local Roads
Background	
	Aerial Photography

The soil surveys that comprise your AC 1:25,000.

Warning: Soil Map may not be valid at the scale. Enlargement of maps beyond the scale may result in a misunderstanding of the detail of map line placement. The maps do not show contrasting soils that could have been mapped at a different scale.

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Albers equal-area conic projection, which preserves direction and area. A projection that preserves area but not shape. The Albers equal-area conic projection, shown here, is a good choice for maps of the United States.

This product is generated from the USGS orthophoto base map for the version date(s) listed below.

Soil Survey Area: Middlesex County, Massachusetts
Survey Area Data: Version 21, Sep 2, 2018

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

Date(s) aerial images were photographed: 2020

The orthophoto or other base map on which the soil map unit boundaries are compiled and digitized probably differs from the imagery displayed on these maps. As a result, shifting of map unit boundaries may be expected.



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
73B	Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony	0.6	9.4%
103C	Charlton-Hollis-Rock outcrop complex, 8 to 15 percent slopes	0.9	12.5%
253B	Hinckley loamy sand, 3 to 8 percent slopes	5.4	78.1%
305B	Paxton fine sandy loam, 3 to 8 percent slopes	0.0	0.0%
Totals for Area of Interest		6.9	100.0%

National Flood Hazard Layer FIRMette



Lege

SEE F15 REPO

**SPECIAL
HAZARD A**

OTHER ARE FLOOD HA

OTHER /

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1

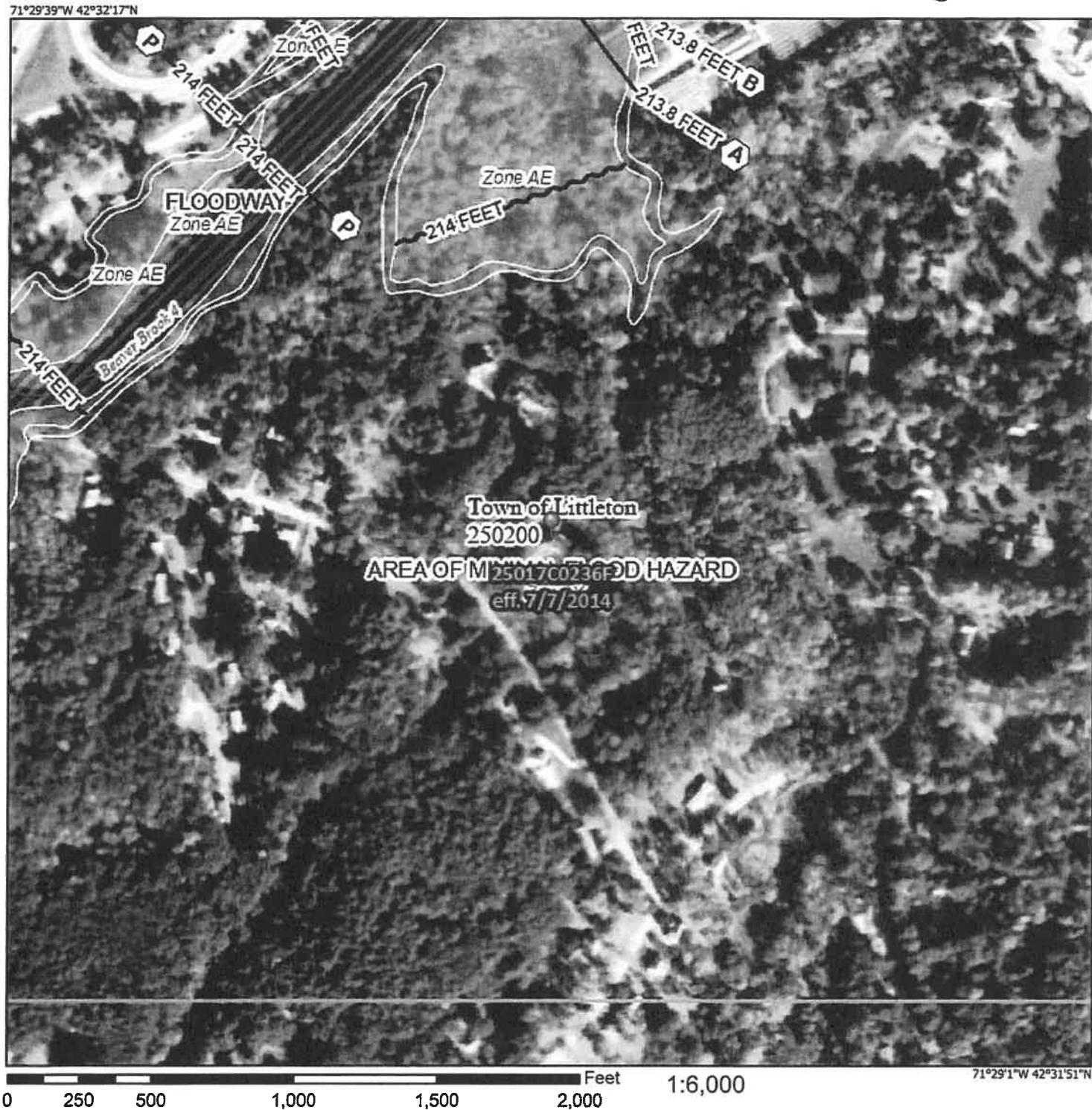
MAPP

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166 Mill Road - Littleton



DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Vinay Sachdev **Prepared by:** Maureen Herald **Project location:** 166 Mill Road – Littleton

DEP F

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.	Vegetation	Observation Plot Number:	Transect Number:	Date
A. Sample Layer and Plant Species (by common/scientific name)		B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)
Tree:				
Sugar Maple (Acer saccharum)	40%	62%	Y	
America Elm (Ulmus americana)	15%	23%	Y	
Black Locust (Robinia pseudoacacia)	10%	15%	N	
Shrubs:				
Burning Bush (Euonymus atropurpureus)	60%	86%	Y	
Rubus (Rubus sp.)	5%	7%	N	
White Oak (Quercus alba)	5%	7%	N	
Herbs:				
Skunk Cabbage (Symplocarpus foetidus)	5%	100%	Y	

*Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sp FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland physiological or morphological adaptations, describe the adaptation next to the asterisk.

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Not

Vegetation conclusion:

Number of dominant wetland indicator plants: **2**

Number of dominant non-wetland indicator plants: **0**

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **[]**

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? Yes No

title/date: Web Soil Survey

map number: 253B & 73B

soil type mapped: Hinckley & Whitman Soils

hydric soil inclusions:

Are field observations consistent with soil survey? Yes No

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
Ap	0-12"	10 YR 2/2	
Bw	12-20"	2.5 Y 4/4	

Remarks:

3. Other:

Conclusion: Is soil hydric? Yes No

Other Indicators of Hydrology: (check all that apply)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal flat): _____
- Other: _____

Vegetation and Hydrology

Number of wetland indicator plants
> number of non-wetland indicator plants

Wetland hydrology present:
Hydric soil present

Other indicators of hydrology present:

Sample location is in the BVW

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Vinay Sachdev

Prepared by: Maureen Herald

Project location: 166 Mill Road – Littleton

DEP I

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I. Vegetation	Observation Plot Number:	Transect Number:	Date:
A. Sample Layer and Plant Species (by common/scientific name)	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)
Tree:			
Sugar Maple (Acer saccharum)	40%	62%	Y
America Elm (Ulmus americana)	15%	23%	Y
Black Locust (Robinia pseudoacacia)	10%	15%	N
Shrubs:			
Burning Bush (Euonymus atropurpureus)	40%	100%	Y
Herbs:			
Skunk Cabbage (Symplocarpus foetidus)	25%	100%	Y

*Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sp*, FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants with physiological or morphological adaptations, describe the adaptation next to the asterisk.

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Not

Vegetation conclusion:

Number of dominant wetland indicator plants: **2**

Number of dominant non-wetland indicator plants: **0**

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **[]**

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? Yes No

title/date: Web Soil Survey

map number: 253B & 73B

soil type mapped: Hinckley & Whitman Soils

hydric soil inclusions:

Are field observations consistent with soil survey? Yes No

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
Ap	0–12"	10 YR 2/2	
Bw	12-20"	2.5 Y 3/2	7.5 YR 5/6

Remarks: > 20% redoximorphic features

3. Other:

Conclusion: Is soil hydric? Yes No

Other Indicators of Hydrology: (check all that apply)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____ 8"
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal flat): _____
- Other: _____

Vegetation and Hydrology

Number of wetland indicator plants > number of non-wetland indicator plants

Wetland hydrology present:
Hydric soil present

Other indicators of hydrology present:

Sample location is in the BVW

Submit this form with the Request for Determination of Hydric Soil