

**NOTICE OF INTENT**

**KENNETH PHU  
139 ELLIS STREET  
WESTWOOD, MA 02090**

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March 5, 2018

Town of Westwood  
Conservation Commission  
50 Carby St.  
Westwood, MA 02090

Copy: Kenneth Phu  
Town Clerk  
MassDEP

RE: ***Notice of Intent***  
139 Ellis St.  
Westwood, MA 02090

Dear Members of the Commission;

Attached herewith are the following documents:

1. Nine (9) copies of the Notice of Intent
2. One check for \$262.50 made payable to Town of Westwood
3. One check for \$500.00 made payable to Town of Westwood

**Existing Site**

The existing 0.42 acre property consists of a single family home with a driveway, deck, and patio.

**Resource Areas**

The resource areas on the property were flagged by Debora J. Anderson, wetland scientist and are shown on the "Existing Conditions" and "Plot Plan". Bordering Vegetated Wetlands and an intermittent stream is located to the west of the property. The site is not located within the 100 year floodplain.

**Project Description**

The proposed project entails the construction of a single family home with associated garage, driveway upgraded drainage, utilities, and other site features. Work is proposed in upland areas and in the 100 foot buffer zone to bordering vegetated wetlands. No work is proposed within any wetland resource area or the 10 foot no disturb setback to wetlands. Roof runoff will drain to subsurface chambers providing 1 inch of volume over the roof area.

During construction, erosion controls will be installed along the limit of work to ensure that no sediment leaves the site, no resource areas will be negatively impacted and surrounding properties will be protected. We look forward to meeting with you at your next scheduled meeting.

Sincerely,

  
Brandon Li



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

MassDEP File Number
Document Transaction Number
Westwood
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):

<u>139 Ellis Street</u> a. Street Address	<u>Westwood</u> b. City/Town	<u>02090</u> c. Zip Code
Latitude and Longitude:		
<u>21</u> f. Assessors Map/Plat Number	<u>42 deg 12' 51" N</u> d. Latitude	<u>71 deg 13' 00" W</u> e. Longitude
	<u>306</u> g. Parcel /Lot Number	

2. Applicant:

<u>Kenneth</u> a. First Name	<u>Phu</u> b. Last Name	
<u></u> c. Organization		
<u>139 Ellis Street</u> d. Street Address		
<u>Westwood</u> e. City/Town	<u>MA</u> f. State	<u>02090</u> g. Zip Code
<u>617-733-4120</u> h. Phone Number	<u></u> i. Fax Number	<u>akkaphu@gmail.com</u> j. Email Address

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

<u></u> a. First Name	<u></u> b. Last Name	
<u></u> c. Organization		
<u></u> d. Street Address		
<u></u> e. City/Town	<u></u> f. State	<u></u> g. Zip Code
<u></u> h. Phone Number	<u></u> i. Fax Number	<u></u> j. Email address

4. Representative (if any):

<u>Brandon</u> a. First Name	<u>Li</u> b. Last Name	
<u></u> c. Company		
<u>17 Hamilton St.</u> d. Street Address		
<u>Quincy</u> e. City/Town	<u>MA</u> f. State	<u>02170</u> g. Zip Code
<u>617-817-8236</u> h. Phone Number	<u></u> i. Fax Number	<u>bradlees@yahoo.com</u> j. Email address

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

<u>\$500</u> a. Total Fee Paid	<u>\$237.50</u> b. State Fee Paid	<u>\$262.50</u> c. City/Town Fee Paid
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Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

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

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## A. General Information (continued)

6. General Project Description:

Demolish existing single family home and construct new single family home.

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

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

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

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

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

Norfolk County Land Court	179992
a. County	b. Certificate # (if registered land)
_____	_____
c. Book	d. Page Number

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

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

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



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 Bureau of Resource Protection - Wetlands

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

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

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

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

2. Width of Riverfront Area (check one):

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

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

4. Proposed alteration of the Riverfront Area:

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

5. Has an alternatives analysis been done and is it attached to this NOI?  Yes  No

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

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

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



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

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
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

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

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

a. square feet of BVW	b. square feet of Salt Marsh
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5.  Project Involves Stream Crossings

a. number of new stream crossings	b. number of replacement stream crossings
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## C. Other Applicable Standards and Requirements

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

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

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

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

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

- 2008 \_\_\_\_\_  
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 <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.





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

(c)  MESA filing fee (fee information available at [http://www.mass.gov/dfwele/dfw/nhosp/regulatory\\_review/ mesa/ mesa\\_fee\\_schedule.htm](http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_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/nhosp/regulatory\\_review/ mesa/ mesa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_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:

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@state.ma.us](mailto:DMF.EnvReview-South@state.ma.us)

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



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

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

- 4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?  
 a.  Yes  No      If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.  
 b. ACEC

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- 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

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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.

Plot Plan #139 Ellis Street Westwood, MA

a. Plan Title

James E. McGrath

b. Prepared By

February 20, 2018

d. Final Revision Date

James E. McGrath

c. Signed and Stamped by

1"=30'

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:

206

2. Municipal Check Number

208

4. State Check Number

Kenneth

6. Payor name on check: First Name

3/5/18

3. Check date

3/5/18

5. Check date

Phu

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection  
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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

March 5, 2018  
2. Date

3. Signature of Property Owner (if different)

4. Date

  
5. Signature of Representative (if any)

3/5/18  
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:

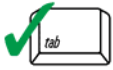
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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:

<u>139 Ellis Street</u>	<u>Westwood</u>
a. Street Address	b. City/Town
<u>206</u>	<u>\$237.50</u>
c. Check number	d. Fee amount

2. Applicant Mailing Address:

<u>Kenneth</u>	<u>Phu</u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u>139 Ellis Street</u>		
d. Mailing Address		
<u>Westwood</u>	<u>MA</u>	<u>02090</u>
e. City/Town	f. State	g. Zip Code
<u>617-733-4120</u>	<u>akkaphu@gmail.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

<u></u>	<u></u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Mailing Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
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).



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**B. Fees** (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Construction of single family house	1	500	500
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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

**Step 6/Fee Payments:**

Total Project Fee:	<u>\$500</u>
	a. Total Fee from Step 5
State share of filing Fee:	<u>\$237.50</u>
	b. 1/2 Total Fee <b>less</b> \$12.50
City/Town share of filing Fee:	<u>\$262.50</u>
	c. 1/2 Total Fee <b>plus</b> \$12.50

**C. Submittal Requirements**

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

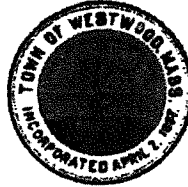
Department of Environmental Protection  
 Box 4062  
 Boston, MA 02211

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

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

**TOWN OF WESTWOOD**  
Commonwealth of Massachusetts

Joseph E. Previtera, Chairman  
Leo L. Crowe  
William Stowe  
Charles Pace



Steven Woodworth, Vice Chair  
Michael Ferry  
John C. Master son

**CONSERVATION COMMISSION**

**Wetland Permit Application: Town Clerk**

Westwood Conservation Commission  
Westwood Town Hall  
50 Carby Street  
Westwood, MA 02090

Dear Commission:

I here certify that a complete copy of the application and plans submitted to the Westwood Conservation Commission for a permit under the Wetland Protection Act, M.G.L. c. 131, s40 and/or the Westwood Wetlands Protection Bylaw, Article 18 has been filed with the Westwood Town Clerk.

The application was submitted to the Town Clerk on (date) \_\_\_\_\_

  
\_\_\_\_\_  
Applicant's or Representative's Signature

March 5, 2018  
Date

Applicant's Name Kenneth Phu

Project Location : 139 Ellis Street

Project Type: Construct single family home

*Attachment #1*  
Worksheet for Fees  
Time Waiver Requirement  
Plans Checklist



**Worksheet for Fees**  
**Westwood Wetlands Bylaw – Article 18**  
**(in Addition to DEP filing Fees)**

Applicant: Kenneth Phu

Address: 139 Ellis Street Westwood, MA 02090

Location of Project: Same

Notice of Intent

- |   |          |  |
|---|----------|--|
| 1. Minor project                        | _____    | \$100.00   |
| 2. Major project                        | _____    | \$250.00 plus \$1.00 additional sq. ft.                              |
| 3. New single family home               | <u>1</u> | \$500.00 plus \$1.00 per 10 sq. ft. of disturbance                   |
| 4. Subdivision road and utility         | _____    | \$750.00 plus \$5.00 per road sideline in resource or buffer zone    |
| 5. Drainage detention/retention         | _____    | \$750.00 plus \$1.00 per 10cf. of basin in resource or buffer zone   |
| 6. Multiple Dwelling                    | _____    | \$500.00 plus \$100.00/unit and \$1.00 per 10 sq. ft. of disturbance |
| 7. Commercial institutional, industrial | _____    | \$750.00 plus \$1.00 per 10 sq. ft. of disturbance                   |
| 8. Request for Det. of Applicability    | _____    | @ \$50.00  |
| 9. ANORAD                               | _____    | \$750.00 plus \$1.00 per 10 sq. ft. of disturbance                   |
| 10. Application filed after enforcement | _____    | Double application fees  |
| 11. Amendments                          | _____    | \$100.00   |
| 12. Certificate of Compliance           |          |  |
| Residence                               | _____    | \$100.00   |
| Non Residence                           | _____    | \$100.00   |
| Commercial or subdivision               | _____    | \$200.00   |
| 13. Emergency Certificate               | _____    | \$100.00   |
| 14. Agent Site Visit                    |          |  |
| Resident                                | _____    | \$25.00 per hour   |
| Non Resident                            | _____    | \$45.00 per hour   |

Total \$ 500

See Westwood Wetlands Protection Bylaw Regulations for more detail.

**TOWN OF WESTWOOD**  
Commonwealth of Massachusetts

Leo J. Crowe  
Charles Pare  
William Stowe  
Jny MacMullin



Diane Hayes  
John Rogers  
John C. Masterson

**CONSERVATION COMMISSION**

**Time Waiver Requirement**

Westwood Conservation Commission  
Westwood Town Hall  
50 Carby Street  
Westwood, MA 02090

Dear Commission:

I hereby waive the benefit of the time requirements set forth in Chapter 131 s. 40, (Wetland Protection Act) of the Massachusetts General Laws, 310 CMR. 10.00 Regulations, and the Town of Westwood Wetlands Protection By-Law, which require the Conservation Commission to convene a hearing and issue a Determination or Order within the time periods specified therein.

The public hearing shall be scheduled for the next available time slot on the meeting agenda upon receipt of the filing of a COMPLETE Notice of Intent or Request for Determination of Applicability.

The Order of Conditions or Determination of Applicability shall be issued within 45 days of the close of the public hearing.

  
Applicant's or Representative's Signature

March 5, 2018  
Date

Applicant's Name Kenneth Phu

Project Location : 139 Ellis Street

Project Type: Construct single family home

# Plans Checklist to Accompany DEP Application for Notice of Intent (NOI)

This is a Bylaw Supplemental form to aid you in submitting complete and appropriate information on your plans.

**THIS PAGE MUST BE INCLUDED WITH YOUR NOI APPLICATION.** All applicable boxes must be marked with  or identified as "N/A".

These details are required on plans to accompany a DEP NOI application<sup>1</sup>:

- north arrow  locus insert  bar scale- 1 in. = 40-20 ft.
- existing contours (black dashed line- - - -)
- existing structure(s) with natural and man-made features
- existing rights-of-way, easements, ancient ways or other deeded ways
- existing utilities- all locations (use standard engineering symbols/notations)
- name of Wetland Specialist responsible for identifying wetland boundaries
- date wetland was flagged (must be no more than 3 yrs. prior to current date<sup>2</sup>)
- wetland boundaries with flag #'s (highlighted blue)
- notations identifying all wetland types  
(include potential or certified vernal pools w/ 100' habitat area highlighted in green).
- 100 ft Buffer zone to wetlands (solid green line)
- 10 ft no-structure setback to wetlands (dashed green line - - - - -)
- 35 ft no-disturbance setback to wetland (dashed green line - - - - -)
- N/A  floodplain (highlighted orange, per FEMA flood plain maps (if applicable))
- N/A  Annual MHW line to Riverfront area (purple solid line) labeled w/ name of River
- N/A  200 ft. and 100 ft. Riverfront areas (purple dashed line- - - - -) (if applicable)
- N/A  wetland fill and replication areas (yellow for filled area, ~~orange for excavation~~)
- shortest distances to all resource areas from closest proposed structure (use arrow)
- shortest distances to all resource areas from closest point of erosion control materials

- Title Block with the following information:
- Applicant's Name(s), address and phone
  - Property Owner Name(s), address and phone
  - Location/Street name and number-  
Must obtain from Assessor's Office if new lot, prior to submission of NOI
  - Assessor Map and Lot number(s) (All lots on which there will be activity, be must listed on the plan with appropriate Registry info.- BK/Pg or Cert. #)
  - plan preparer's name, title and company/firm name

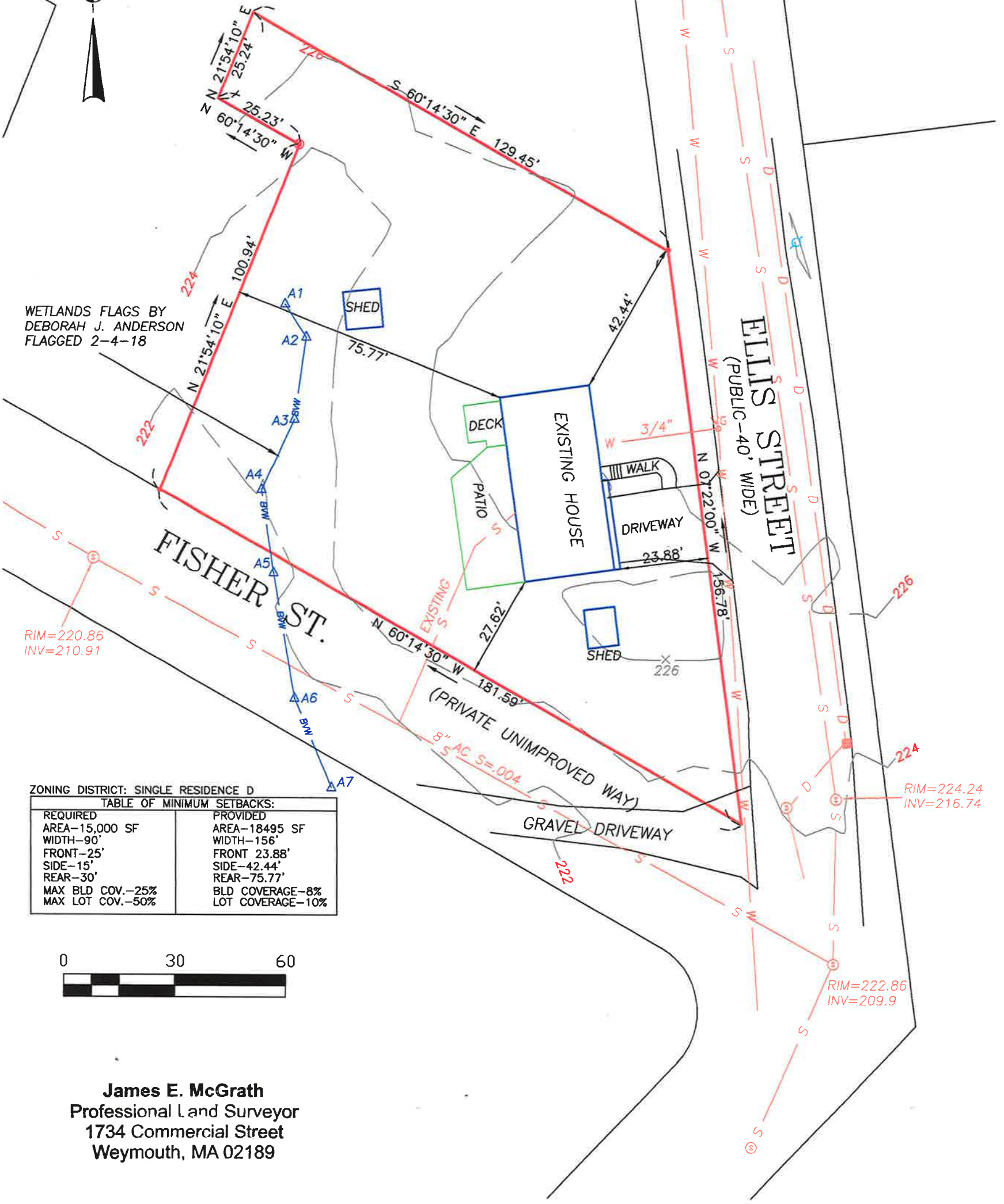
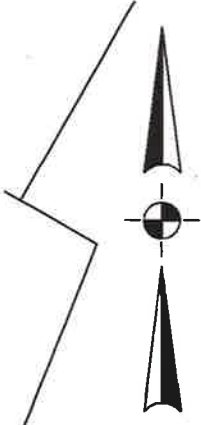
- date plan prepared
- proposed contours (black solid line)
- proposed structure(s) (including driveway work, septic components, etc.)<sup>3</sup>
- proposed location of utility lines
- erosion control line (highlighted red) with erosion control material detail
- limit of Work line (solid red line- may be same as erosion control line)
- conservation post locations (solid square symbol to indicate location of posts)
- conservation post detail and plaque detail (copy available on website)
- location of temporary stockpiles w/ notation of content (e.g. excavated soils)<sup>4</sup>
- drywells for stormwater run-off are required for all structures requiring a Building Permit
- drywell construction detail (copy available on website)
- detail showing the access pathway to work area
- crushed stone apron onto property as per DPW standards
- signature and stamp of licensed surveyor or professional engineer

I certify that the above checked items have been completed and understand that incomplete applications are cause for scheduling delays/continuations of public hearings.

Signed: Bryan Di Title: \_\_\_\_\_ Date: 3/2/18

<sup>1</sup> Other documents are required with the application packet- see Submittal Requirements form.  
<sup>2</sup> Wetland delineation more than three years old is not acceptable for plan submission to the Cons. Commission. Call the Cons. Office for further details.  
<sup>3</sup> For Septic upgrades, show location of all features to be abandoned including detail notations. For structure demolition, show existing structural footprint.  
<sup>4</sup> depending on the content and size, stockpiles, even temporary piles, may require erosion control at base.

*Attachment #2*  
Existing Conditions  
Plot Plan  
Site Plan  
Detail Sheet



WETLANDS FLAGS BY  
DEBORAH J. ANDERSON  
FLAGGED 2-4-18

ZONING DISTRICT: SINGLE RESIDENCE D  
TABLE OF MINIMUM SETBACKS:

REQUIRED	PROVIDED
AREA-15,000 SF	AREA-18495 SF
WIDTH-90'	WIDTH-156'
FRONT-25'	FRONT 23.88'
SIDE-15'	SIDE-42.44'
REAR-30'	REAR-75.77'
MAX BLD COV.-25%	BLD COVERAGE-8%
MAX LOT COV.-50%	LOT COVERAGE-10%



**James E. McGrath**  
Professional Land Surveyor  
1734 Commercial Street  
Weymouth, MA 02189

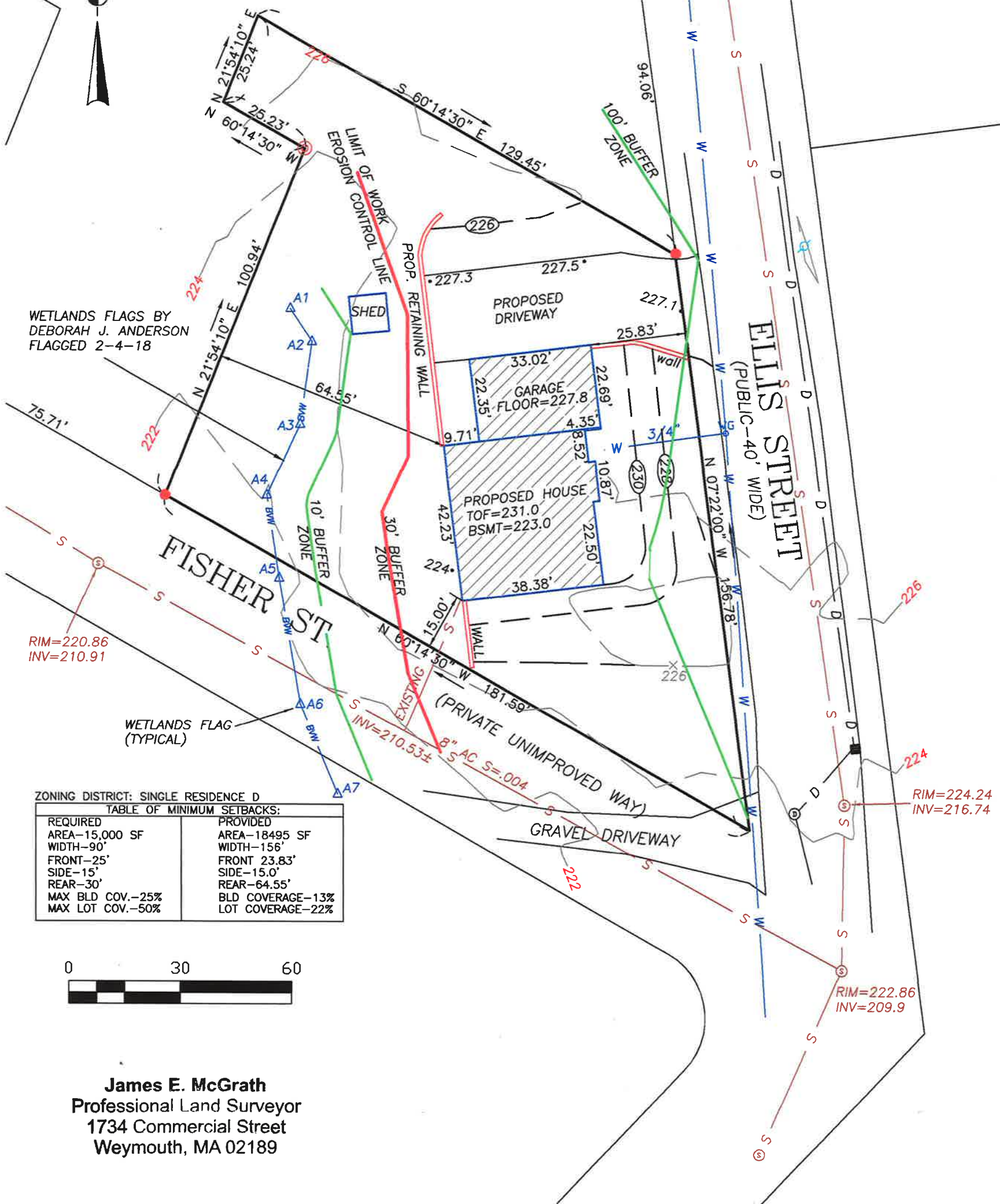
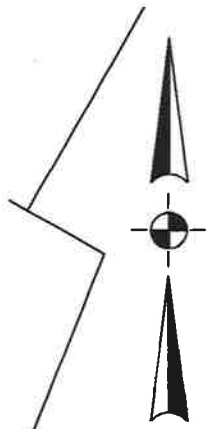
I HEREBY CERTIFY THAT THE EXISTING STRUCTURES SHOWN ON THIS PLAN WERE LOCATED BY AN INSTRUMENT SURVEY AND ARE LOCATED ON THE GROUND AS SHOWN HEREIN.



NOTES:

1. LAND COURT CERTIFICATE 179992
2. LAND COURT PLAN 865F
3. ELEVATIONS REFERENCED TO WESTWOOD SEWER DATUM.

**EXISTING CONDITIONS**  
**#139 ELLIS STREET**  
**WESTWOOD, MA**  
**PARCEL ID: 21-306**  
OWNER: KENNETH & ALYSSA PHU  
SCALE: 1" = 30'  
DATE: DECEMBER 20, 2016  
ZONING DISTRICT: SINGLE RESIDENCE D



I HEREBY CERTIFY THAT THE EXISTING STRUCTURES SHOWN ON THIS PLAN WERE LOCATED BY AN INSTRUMENT SURVEY AND ARE LOCATED ON THE GROUND AS SHOWN HEREIN.



NOTES:

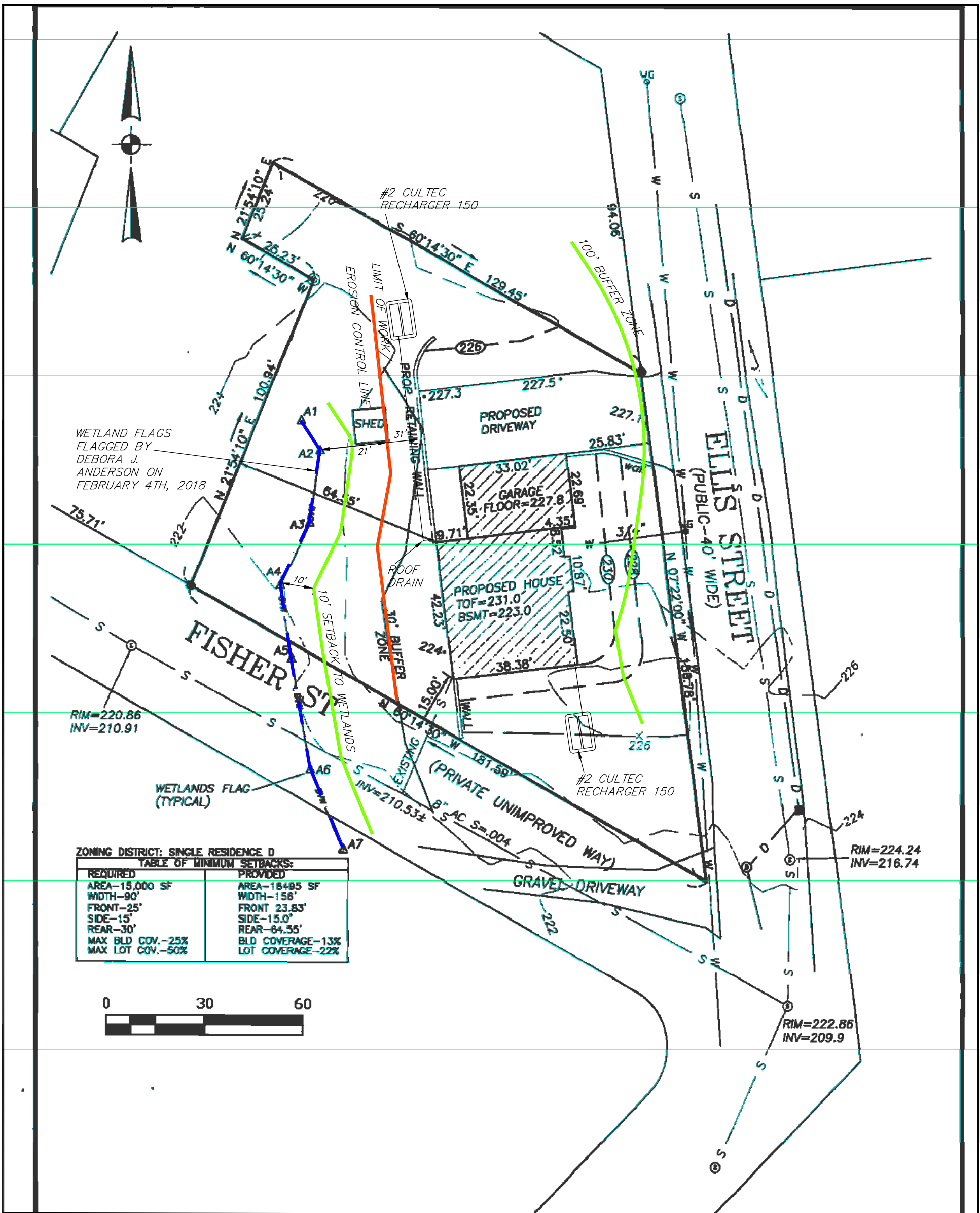
1. LAND COURT CERTIFICATE 179992
2. LAND COURT PLAN 865F
3. ELEVATION REFERENCED TO WESTWOOD SEWER DATUM.

PLOT PLAN

#139 ELLIS STREET  
WESTWOOD, MA  
PARCEL ID: 21-306

OWNER: KENNETH & ALYSSA PHU

SCALE: 1" = 30'  
DATE: FEBRUARY 20, 2018  
ZONING DISTRICT: SINGLE RESIDENCE D

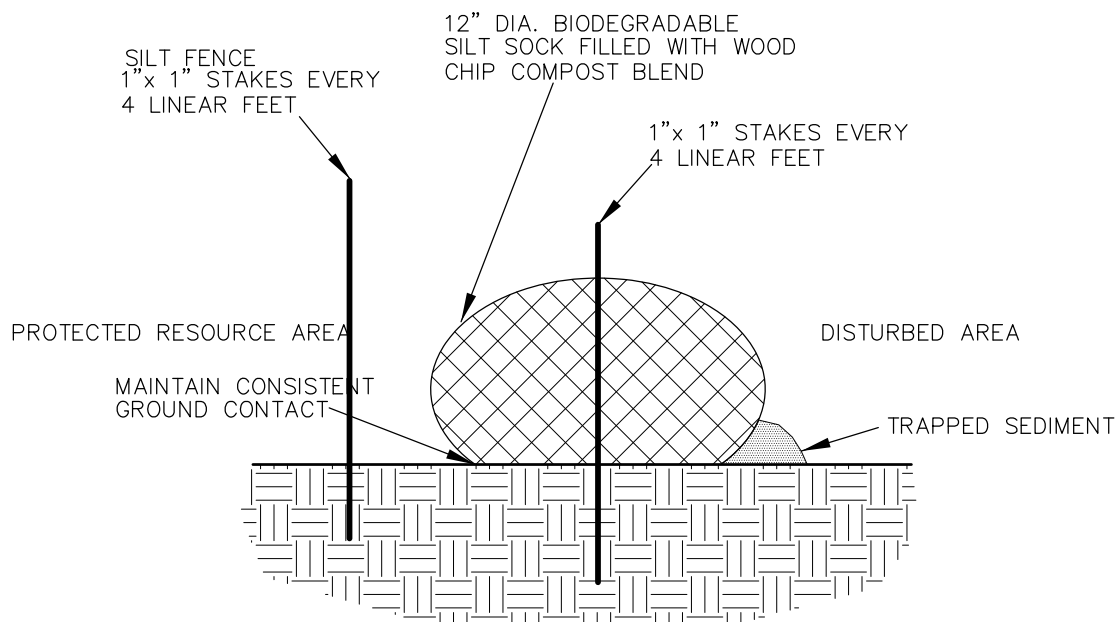


# SITE PLAN

DATE: 03/02/18

KENNETH PHU  
139 ELLIS ST.  
WESTWOOD, MA

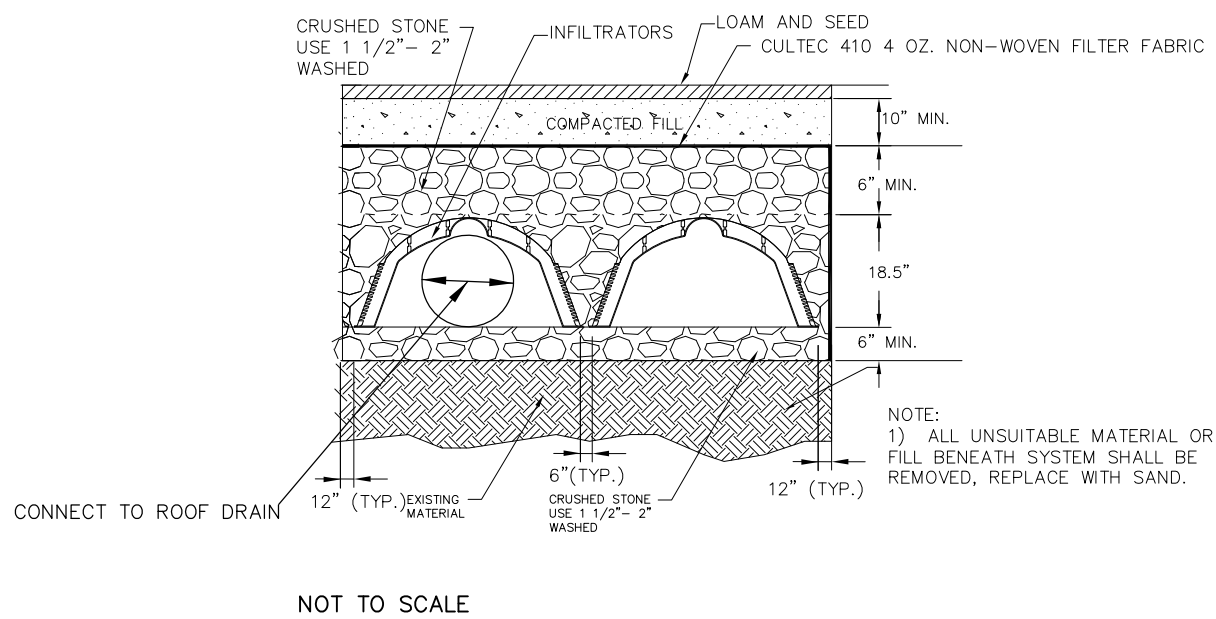
MAP 21 LOT 306  
LAND COURT CERTIFICATE 179992



SILT SOCK LINE DETAIL

TYPICAL SUBSURFACE RECHARGE AREA (CULTEC 150XLHD)

\*SEE CULTEC RECHARGER 150 STORMWATER MANAGEMENT SYSTEM DESIGN FOR INSTALLATION INSTRUCTIONS



DETAIL SHEET

DATE: 03/02/18

KENNETH PHU  
139 ELLIS ST.  
WESTWOOD, MA

MAP 21 LOT 306  
LAND COURT CERTIFICATE 179992



*Attachment #3*  
Abutter Notification Form  
Affidavit of Service  
Abutters List

**NOTICE TO ABUTTERS**  
**Under the Massachusetts Wetlands Protection Act**  
**and**  
**Westwood Wetland Bylaw**

**Notice of Intent**

The Westwood Conservation Commission will hold a public hearing, under M.G.L. Chapter 131, Section 40 and the Westwood Wetland Bylaw on

Date: March 28, 2018

Time: 7:00 pm

Place: 50 Carby Street Municipal Office Building  
Champagne Meeting Room

A permit is requested by Kenneth Phu  
of 139 Ellis Street

The property is located at 139 Ellis Street

A complete copy of this filing is available to the public at the Westwood Conservation Commission office. Notice of the Conservation Commission meeting is posted in the Town Hall not less than 48 hours in advance as required by Open Meeting Law.

**AFFIDAVIT OF SERVICE**

Under the Massachusetts Wetland Protection Act  
(To be submitted to the Massachusetts Department of Environmental Protection and the  
Conservation Commission when filing a Notice of Intent)

I, Brandon Li, hereby certify under the pains and penalties of perjury that I will give notification to abutters in compliance with the second paragraph of Massachusetts General Laws, Chapter 131, Section 40, and the DEP Guide to Abutter Notification, dated April 8, 1994 and/or the Westwood Wetlands Protection Bylaw in connection with the following matter:

A Notice of Intent, filed under Massachusetts Wetlands Protection Act and the Westwood Wetlands Protection Bylaw by Kenneth Phu with the Town of Westwood Conservation Commission on March 6, 2018 for the property located at Assessor's Map 21 Lot 306, 139 Ellis St. Westwood, MA.

The form of the notification and a list of abutters to whom it was given and their addresses are attached to the Affidavit of Service.

Brandon Li  
Brandon Li

3/2/18  
Date

**ABUTTERS LIST FOR 139 ELLIS ST  
WESTWOOD, MA**

MAP & LOT	OWNER	CO-OWNER	Mailing Address	City	St Zip	Location
21302	GILMORE BRETT J	MELISSA M GILMORE	11 SHORT ST	WESTWOOD	MA 02090	11 SHORT ST
21303	LIPTON DANIEL A	RACHEL A LIPTON	5 SHORT ST	WESTWOOD	MA 02090	5 SHORT ST
21305	KANE PETER E	PAMELA R	149 ELLIS STREET	WESTWOOD	MA 02090	149 ELLIS ST
21306	PHU KENNETH A	ALYSSA L PHU	139 ELLIS ST	WESTWOOD	MA 02090	139 ELLIS ST
21307	LANS MARTINS	KATELYN ROSE MCNEILL	161 CHURCH ST	WESTWOOD	MA 02090	161 CHURCH ST
21308	NASWAN GLENN D	RUTH M NASWAN	157 CHURCH ST	WESTWOOD	MA 02090	157 CHURCH ST
21328	CUMMINGS EUGENE G	SHEILA G CUMMINGS	120 ELLIS ST	WESTWOOD	MA 02090	120 ELLIS ST
21329	OCONNOR CHERYL A		132 ELLIS ST	WESTWOOD	MA 02090	132 ELLIS ST
21330	GUNDAL KARL E	ALLYSON GUNDAL	136 ELLIS ST	WESTWOOD	MA 02090	136 ELLIS ST
21331	GRINLEY RICHARD S	KELLY A GRINLEY	142 ELLIS ST	WESTWOOD	MA 02090	142 ELLIS ST
21345	REZEK RANDY	JILL REZEK	185 FISHER ST	WESTWOOD	MA 02090	185 FISHER ST

**Attachment #4**  
Wetland Delineation Report  
Westwood GIS Map  
MassGIS Map  
Soil Survey Map  
Field Data Forms  
FEMA FIRMette

**Debora J. Anderson, Wetland Scientist**  
**45 Willow Street**  
**Norwood, MA. 02062**  
**781-603-8421**  
[Terrapin666888@comcast.net](mailto:Terrapin666888@comcast.net)

February 7, 2018

Ken Phu  
139 Ellis Street  
Westwood, MA 02090

**RE: 139 Ellis Street, Westwood**  
Wetland Delineation Report

Dear Mr. Phu:

At your request, on February 4<sup>th</sup>, 2018, Debbie Anderson, Wetlands Scientist, inspected the property located at 139 Ellis Street in Westwood, Massachusetts for the presence of wetland resources as defined by the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, S. 40) and its implementing regulations (310 CMR 10.00 *et seq.*), the Westwood Wetlands Protection Bylaw (Chapter 392), and the U.S. Clean Water Act. The following is a brief description of the existing conditions observed during the site inspection, the delineated resources, and any potentially regulated wetland resources present on or adjacent to the site (see attached MassGIS and Town of Westwood GIS Maps).

The property is relatively flat, sloping gently towards the rear. It is located at the corner of Ellis and Fisher Streets. Single-family homes are located to the north and west, as well as, across Ellis Street and Fisher Street. Across Ellis Street to the southeast is Conservation land containing Bordering Vegetated Wetlands. The .42- acre lot is improved with a 1,224 square foot split level style home and attached garage constructed in 1954. Although the MassGIS Oliver Map and the Town Of Westwood GIS Maps do not indicate wetlands located on or adjacent to the site, it is my understanding that a project on the adjacent parcel to the north identified a narrow strip of Bordering Vegetated Wetlands between the two properties (see attached MassGIS and Westwood GIS Maps). My site inspection identified an intermittent stream flowing between the two parcels located to the north of the subject site which enters a culvert beneath Fisher Street before discharging into the wetland complex across Ellis Street. Associated Bordering Vegetated wetlands encroach onto the rear of the property.

Aside from Buffer Zone, the Massachusetts Wetlands Protection Act Regulations have established five (5) freshwater resource categories: (1) Bank; (2) Bordering Vegetated Wetlands; (3) Land Under Water Bodies and Waterways; (4) Land Subject to Flooding; and (5) Riverfront Area. The site was examined and areas that qualified as any of the above resource categories were identified. Vegetated wetlands are identified by the presence of a vegetational community comprised of 50% or more wetland plant species and the presence of wetland hydrology (i.e. hydric soils and/or other indicators of hydrology). Bordering Vegetated Wetlands are delineated

139 Ellis Street, Westwood

in accordance with the methodology set forth in “Delineating Bordering Vegetated Wetlands under the Massachusetts Wetlands Protection Act: A Handbook”, dated March 1995, produced by the Massachusetts Department of Environmental Protection, Division of Wetlands and Waterways.

The narrow strip of Bordering Vegetated Wetlands that encroaches onto the rear of the property is identified in the field with pink flagging tape labeled with flag numbers (DA A-1 to DA A-7). The plant species identified in the wetland and upland in this area of the site include: white oak, northern red oak, crabapple, red maple, shag-bark hickory, and eastern white pine in the tree and sapling layers; multiflora rose, red-osier dogwood, and eastern burning-bush in the shrub layer; flat-top white aster and bamboo in the groundcover layer; and oriental bittersweet, english ivy, grape and poison ivy woody vines.

Evidence of hydrology located within the delineated wetland include hydric soils, oxidized rhizospheres and water-stained leaves. Hydric soils were identified within the narrow band of Bordering Vegetated Wetlands (see attached MassDEP Bordering Vegetated Wetland Field Data Forms).

The USDA Soil Survey of Norfolk & Suffolk Counties (MA 616), dated October 6, 2017 identifies the soils in the upland areas as Woodbridge-Urban land complex, 3-15% slopes. Although wetland soils were not identified in this location in the USDA Soil Survey, hydric soils were identified on-site (See attached USDA Soil Survey).

A line running parallel to and 100-feet from the delineated Bordering Vegetated Wetland flags encompasses the Buffer Zone to the wetland and is regulated by the Massachusetts Wetlands Protection Act and the Westwood Wetlands Protection Bylaw. Work within this area may be permitted by following specific guidelines and standards which must be met and approved by the Westwood Conservation Commission.

As part of the wetland evaluation for this site, the Massachusetts Natural Heritage Atlas, August 1, 2017 Edition, published by the Massachusetts Natural Heritage and Endangered Species Program, was reviewed. According to the Atlas, the site does not exist within any area designated as an Estimated Habitat of Rare Wetlands Wildlife or Priority Habitat. According to the Atlas, there are no Certified or Potential Vernal Pools located on the site.

If you having any questions, please feel free to contact me.

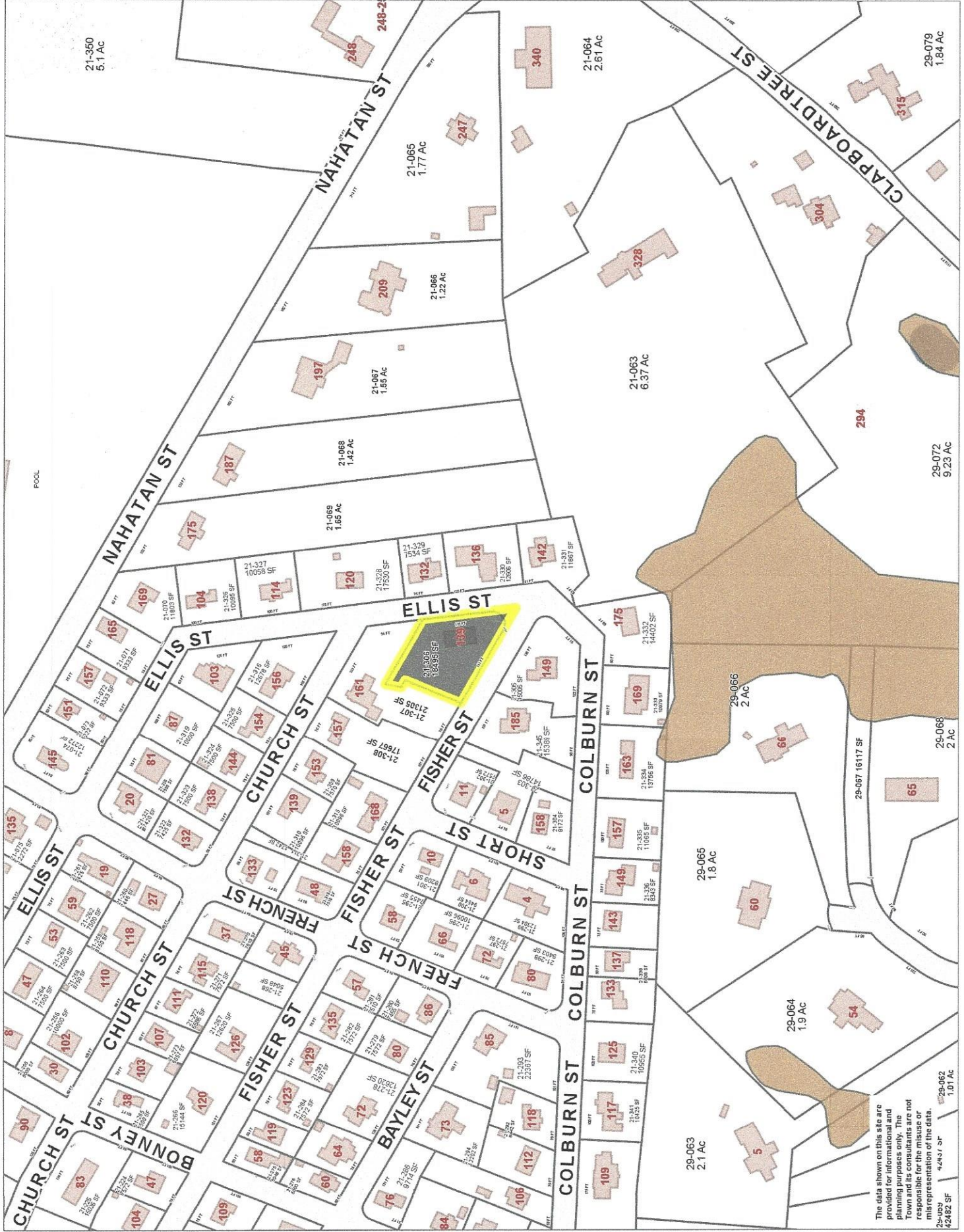
Cordially,



Debora Anderson  
Wetland Scientist



- Address Numbers
- AZ Veterans Park Paths
- z\_Veterans Park Bricks
- Trains
- Wetlands (MiscGIS)
- Deep Marsh
- Open Water
- Shallow Marsh Meadow
- Shrub Swamp
- Wooded Swamp Decid
- Wooded Swamp Decid
- Wetlands (State Restricted)
- Wetlands (Town)
- NHESP Certified Vernal Pools
- Parcels
- Train ROW
- Road ROW
- Buildings
- MA Highways
- Interstate
- US Highway
- Numbered Routes
- Town Boundary
- Abutting Towns
- Streets
- Rivers and Streams
- Open Water



The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.

29-063 4.2x3.1 SF  
 29-062 1.01 AC

# 139 Ellis Street, Westwood

Printed on 02/09/2018 at 07:17 PM

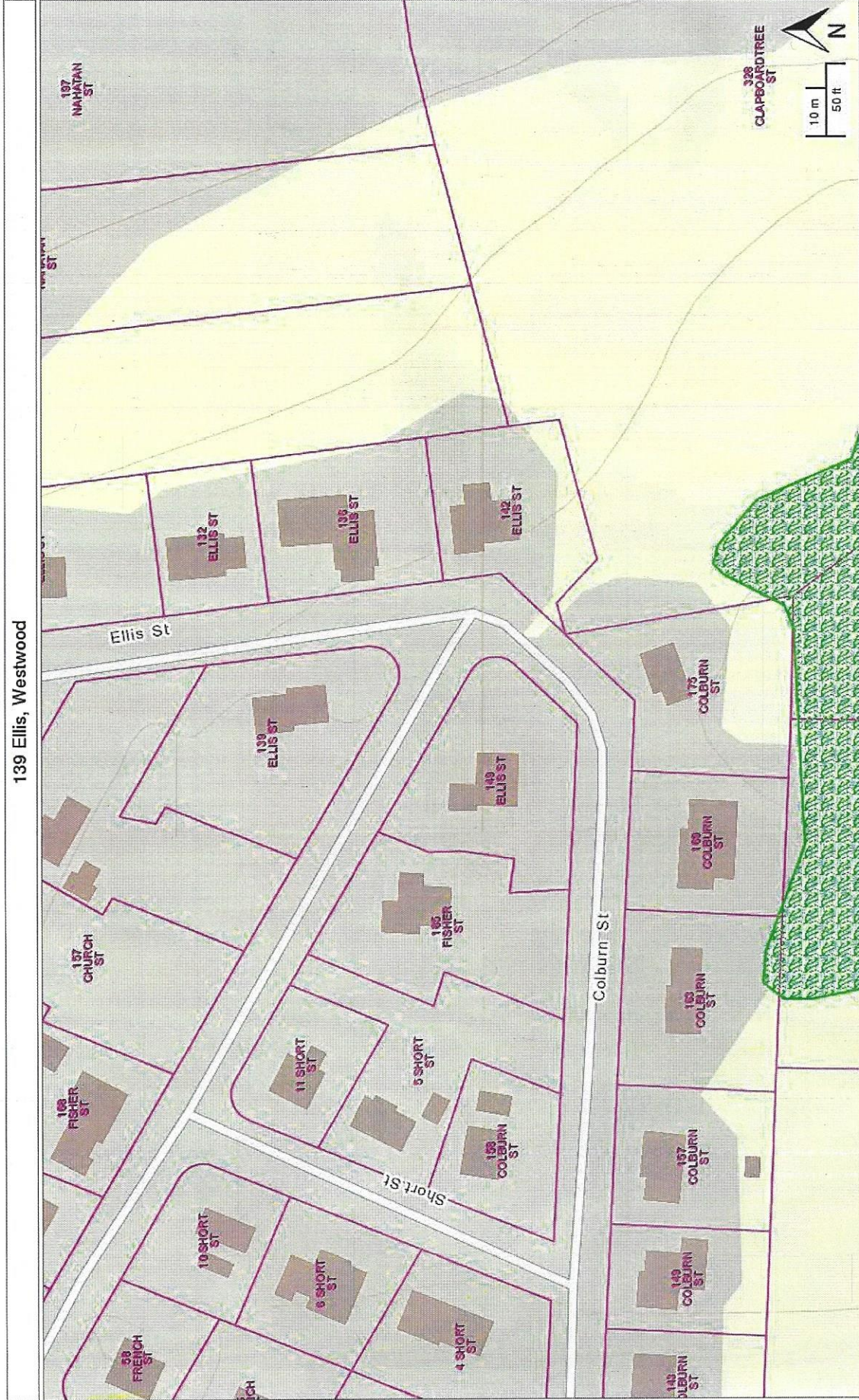
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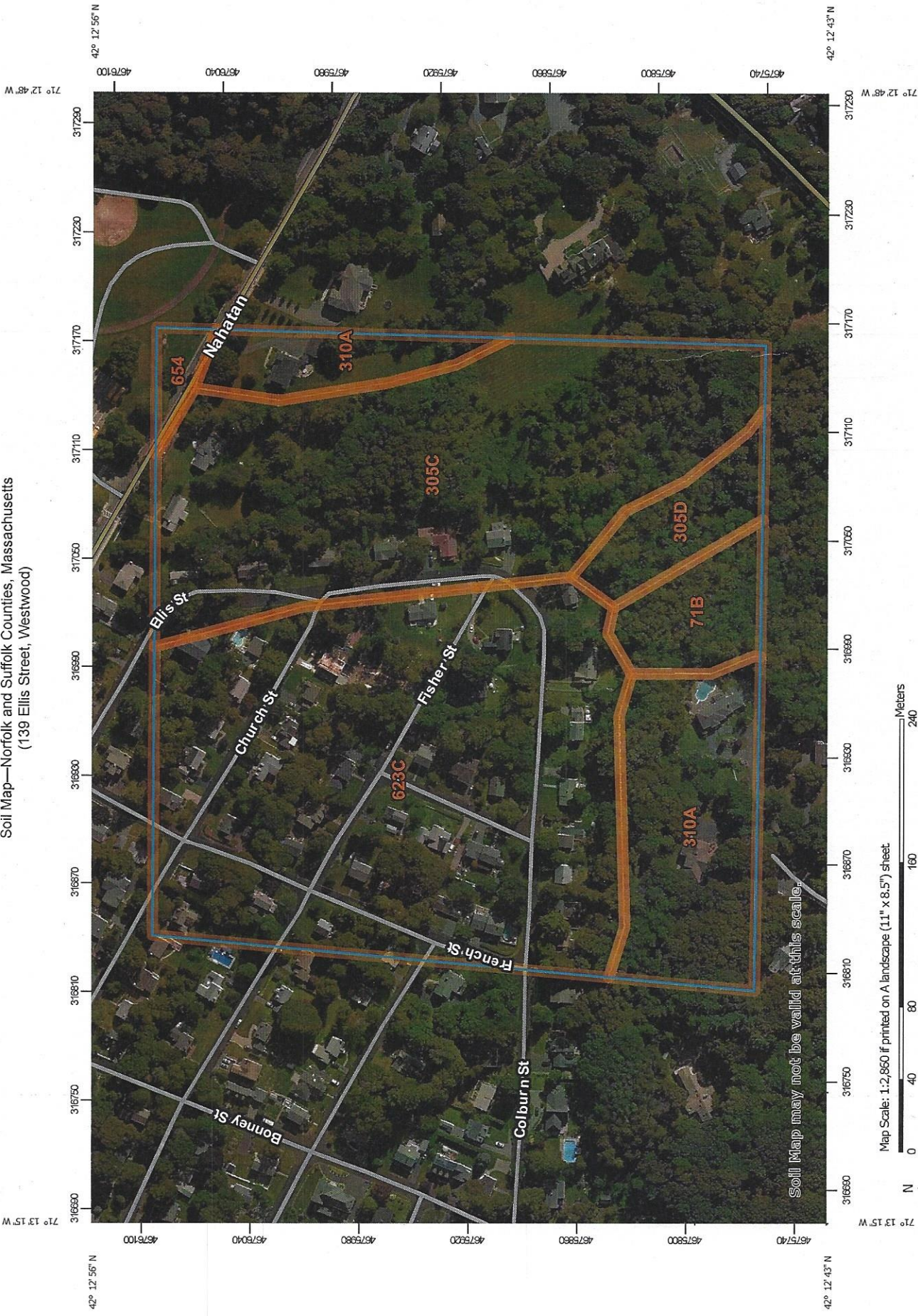


139 Ellis, Westwood








































- DEP Wetlands Hydrologic
- DEP Wetlands Detailed
- Barrier Beach System
- Barrier Beach-Deep I
- Barrier Beach-Woode
- Barrier Beach-Coasta
- Barrier Beach-Coasta
- Barrier Beach-Marsh
- Barrier Beach-Salt Me
- Barrier Beach-Shrub :
- Barrier Beach-Woode
- Barrier Beach-Woode
- Bog
- Coastal Bank Bluff or
- Coastal Beach
- Coastal Dune
- Cranberry Bog
- Deep Marsh
- Barrier Beach-Open I
- Open Water
- Rocky Intertidal Shore
- Salt Marsh
- Shallow Marsh Mead
- Shrub Swamp
- Tidal Flat
- Wooded Swamp Coni
- Wooded Swamp Dec
- Wooded Swamp Mixe
- DEP Wetlands Linear Fe
- SHORELINE
- HYDROLOGIC CONNE
- MEAN WATER LINE
- APPARENT WETLAND
- CLOSURE LINE
- EDGE OF INTERPRETI
- Potential Vernal Pools
- NHESP Priority Habitats
- NHESP Estimated Habita
- NHESP Certified Vernal F
- Tax Parcels for Query
- Detailed Features
- Tax Parcels
- Structures

Soil Map—Norfolk and Suffolk Counties, Massachusetts  
 (139 Ellis Street, Westwood)



## MAP LEGEND

-  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
-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features
- 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 1:25,000.

**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: Norfolk and Suffolk Counties, Massachusetts  
Survey Area Data: Version 13, Oct 6, 2017

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

Date(s) aerial images were photographed: Aug 10, 2014—Aug 25, 2014

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.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
71B	Ridgebury fine sandy loam, 3 to 8 percent slopes, extremely stony	1.2	4.1%
305C	Paxton fine sandy loam, 8 to 15 percent slopes	9.2	32.1%
305D	Paxton fine sandy loam, 15 to 25 percent slopes	1.2	4.0%
310A	Woodbridge fine sandy loam, 0 to 3 percent slopes	4.3	15.1%
623C	Woodbridge-Urban land complex, 3 to 15 percent slopes	12.5	43.6%
654	Udorthents, loamy	0.3	1.1%
<b>Totals for Area of Interest</b>		<b>28.8</b>	<b>100.0%</b>

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

Applicant: \_\_\_\_\_ Prepared by: Debbie Anderson Project location: 139 Ellis Street, Westwood DEP File #: \_\_\_\_\_

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: <b>DA A-3</b>		Transect Number: <b>Upland</b>	Date of Delineation: <b>2/4/2018</b>
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*

### Tree Layer:

Shag-Bark Hickory/ <i>Carya ovata</i>	38.0%	50.0%	YES	FACU-
Crabapple/ <i>Pyrus malus</i>	38.0%	50.0%	YES	UPL

### Groundcover:

Manicured Lawn	100.0%	100.0%	YES	UPL
----------------	--------	--------	-----	-----

### Woody Vines:

English Ivy/ <i>Hedera helix</i>	10.5%	100.0%	YES	UPL
----------------------------------	-------	--------	-----	-----

\* 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 *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

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

Number of dominant non-wetland indicator plants: **4**

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Other Indicators of Hydrology: (check all that apply & describe)

- 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 BWV: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Other: \_\_\_\_\_

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? yes no  
 title/date: **WebSoil Survey, Norfolk & Suffolk Counties, 10/16/17**  
 map number: **MA 017**  
 soil type mapped: **623C Woodbridge-Urban Land Complex, 3-15% slopes**  
 hydric soil inclusions: **None**

Are field observations consistent with soil survey? yes no  
 Remarks:

There are wetlands located on-site associated with an intermittent stream located off-site.

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-8"	10YR 3/1 fine sandy loam	
Bw1	8-16"	2.5Y 5/4 fine sandy loam	10YR 5/6
Bw2	16-20"	2.5Y 6/4 fine sandy loam	2.5Y 7/2

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

### Vegetation and Hydrology Conclusion

Yes No

Number of wetland indicator plants  
 ≥ # of non-wetland indicator plants

— X—

#### Wetland hydrology present:

Hydric soil present

— X—

Other indicators of hydrology present

— X—

Sample location is in a BWV

— X—

Submit this form with the Request for Determination of Applicability or Notice of Intent.

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

Applicant: \_\_\_\_\_ Prepared by: Debbie Anderson Project location: 139 Ellis Street, Westwood DEP File #: \_\_\_\_\_

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: <b>DA A-3</b>		Transect Number: <b>Wetland</b>	Date of Delineation: <b>2/4/2018</b>
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b>Tree Layer:</b>				
Red Maple/ <i>Acer rubrum</i>	38.0%	65.0%	YES	FAC*
Crabapple/ <i>Pyrus malus</i>	20.5%	35.0%	YES	UPL
<b>Shrub Layer:</b>				
Eastern Burning-Bush/ <i>Euonymus atropurpureus</i>	10.5%	22.0%	YES	FACU
Red-Osier Dogwood/ <i>Cornus stolonifera</i>	38.0%	78.0%	YES	FACW+*
<b>Groundcover:</b>				
Flat-Top White Aster/ <i>Aster umbellatus</i>	38.0%	100.0%	YES	FACW*

\* 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 *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

## Vegetation conclusion:

Number of dominant wetland indicator plants: **3**

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

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **yes** no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: \_\_\_\_\_
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: @ surface
- Water marks: \_\_\_\_\_
- Drift lines: \_\_\_\_\_
- Sediment Deposits: \_\_\_\_\_
- Drainage patterns in BWV: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Other: \_\_\_\_\_

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? yes no  
 title/date: Web Soil Survey, Norfolk & Suffolk Counties, 10/16/17  
 map number: MA 017  
 soil type mapped: 623C Woodbridge-Urban Land Complex, 3-15% slopes  
 hydric soil inclusions: None

Are field observations consistent with soil survey? yes no

Remarks:

There are wetlands located on-site associated with an intermittent stream located off-site that are not included on the survey.

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-10"	10YR 2/1 fine sandy loam	
B	10-20"+	5Y 6/1 fine sandy loam oxidized rhizospheres	

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<u>X</u> _____	_____
<b>Wetland hydrology present:</b>		
Hydric soil present	<u>X</u> _____	_____
Other indicators of hydrology present	<u>X</u> _____	_____
<b>Sample location is in a BVW</b>	<u>X</u> _____	_____

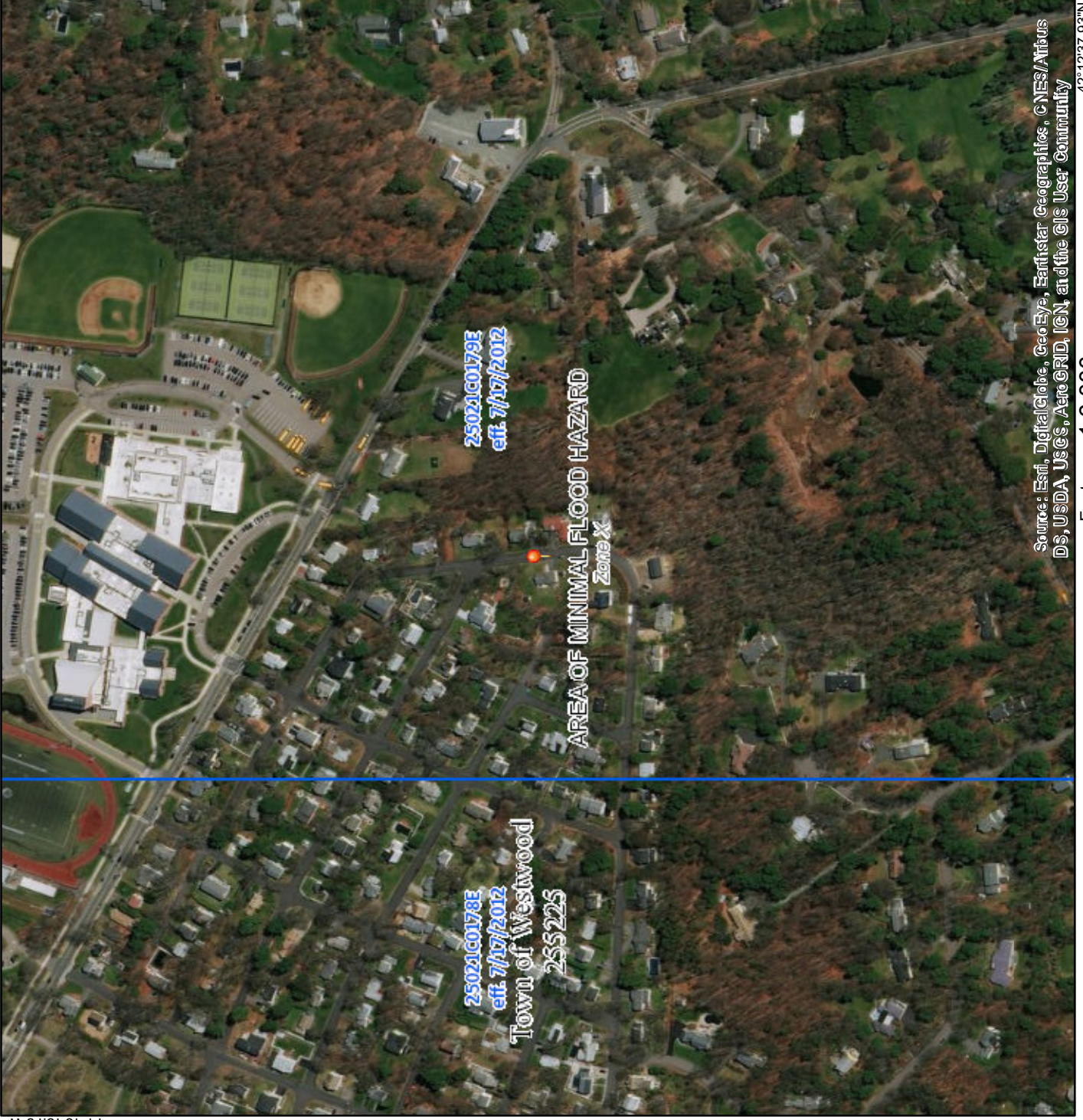
Submit this form with the Request for Determination of Applicability or Notice of Intent.



# National Flood Hazard Layer FIRMette



42° 13' 4.58" N



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Feet 1:6,000

2,000

1,500

1,000

500

0

71° 12' 41.32" W

42° 12' 37.93" N

## Legend

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

**SPECIAL FLOOD HAZARD AREAS**

- Without Base Flood Elevation (BFE)  
*Zone A, V, A99*
- With BFE or Depth
- Regulatory Floodway *Zone AE, AO, AH, VE, AR*

0.2% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*

- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

**OTHER AREAS OF FLOOD HAZARD**

- NO SCREEN *Zone X*
- Effective LOMRs *Zone D*
- Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

**OTHER AREAS**

- Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall

**GENERAL STRUCTURES**

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

**OTHER FEATURES**

- Digital Data Available
- No Digital Data Available
- Unmapped

**MAP PANELS**

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **3/2/2018 at 11:12:46 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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