

Heather Comee
Wetland Consultant

**NOTICE OF INTENT
FORM 3
LOT 2 WEST STREET (3-D-1)
GRANBY, MASSACHUSETTS**

Applicant & Owner:

William E. Chapdelaine
404 River Road
South Hadley, MA. 01075

NOI Prepared by:

Heather Comee Wetland Consultant
572 East River Road
Huntington, MA. 01050

Survey by:

Smith Associates Surveying, Inc.
46B Baldwin Street
P.O. Box 354
East Longmeadow, MA. 01028

Engineering by:

Innovative Engineering & Consulting, LLC.
308 Miller Street, Unit 40
Ludlow, MA. 01056

For Submission to:

Granby Conservation Commission
&
Massachusetts Department of Environmental Protection

Job Number 20-003

January 19, 2021

Heather Comee
Wetland Consultant

January 19, 2021

Granby Conservation Commission
Senior Center Building
10-B West State Street 2nd Floor
Granby, MA 01033

Notice of Intent
Lot 2 West Street (3-D-1)
Granby, MA

Dear Commission Members:

Please find enclosed two (2) copies of a Notice of Intent (Form 3) as per the Massachusetts Wetland Protection Act, MGL c 131 s 40. An electronic copy of this submittal has also been emailed to the chair of the commission and can be forwarded to the commission members. This filing is being made on behalf of our client, Mr. William Chapdelaine of South Hadley, Massachusetts. Two (2) copies of the following plans have also been enclosed:

Plan of Land. Lot 2 West Street, Granby, MA. Owned By William E. Chapdelaine.
Prepared by Smith Associates Surveyors, Inc. Dated 12/23/2020. Scale 1" = 40'.

Also, enclosed is a filing fee check in the amount of \$262.50, the Conservation Commission's share of the \$500.00 filing fee. In **Appendix A** is a copy of the transmittal form used to determine the filing fee.

One (1) complete copy of this submittal has been electronically submitted via eDEP to the Western Regional Office of the Massachusetts Department of Environmental Protection (DEP). Additionally, all site abutters within 100-feet have been notified via certificate of mailing of the Notice and informed where copies may be examined. See **Appendix B** for a list of site abutters, Affidavit and Notification to Abutters form, and the Certificate of Mailing FIRM Receipts.

Should you have any questions or comments regarding this submittal, please feel free to call the office at your convenience.

Sincerely,
HEATHER COMEE WETLAND CONSULTANT

Heather M. Comee

Heather M. Comee
Wetland Scientist

c: Western Regional Office of Massachusetts DEP via eDEP
Mr. William Chapdelaine

TABLE OF CONTENTS

Form 3 Notice of Intent

Addendum

Figures

1-Site Locus, Priority & Estimated Habitat

2-2016 Orthophoto

3-Soil Map

4-Flood Plain Map

Appendices

A- Wetlands Fee Transmittal Form

B- Abutters List and Notification

C- Soil Borings Forms

D- Site Photographs

E- Site Plan



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

Granby

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):

Lot 2 West Street

a. Street Address

Granby

b. City/Town

01033

c. Zip Code

Latitude and Longitude:

42.25719N

d. Latitude

72.52435W

e. Longitude

3-D

f. Assessors Map/Plat Number

1

g. Parcel /Lot Number

2. Applicant:

William

a. First Name

Chapdelaine

b. Last Name

c. Organization

404 River Road

d. Street Address

South Hadley

e. City/Town

MA

f. State

01075

g. Zip Code

h. Phone Number

i. Fax Number

bjchapde@comcast.net

j. Email Address

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

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Heather

a. First Name

Comee

b. Last Name

Heather Comee Wetland Consultant

c. Company

572 East River Road

d. Street Address

Huntington

e. City/Town

MA

f. State

01050

g. Zip Code

(413)623-7100

h. Phone Number

i. Fax Number

hcomee.wci@gmail.com

j. Email address

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

\$500.00

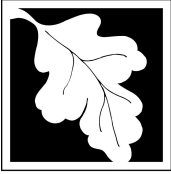
a. Total Fee Paid

\$237.50

b. State Fee Paid

\$262.50

c. City/Town Fee Paid



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Bureau of Resource Protection - Wetlands

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A. General Information (continued)

6. General Project Description:

The construction of a single-family home and associated work is proposed within BVW buffer zone.

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:

Hampshire

a. County

12984

c. Book

b. Certificate # (if registered land)

158

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.



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

Granby

City/Town

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <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) - specify coastal or inland	

2. Width of Riverfront Area (check one):

☐ 25 ft. - Designated Densely Developed Areas only

☐ 100 ft. - New agricultural projects only

☐ 200 ft. - All other projects

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

4. Proposed alteration of the Riverfront Area:

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

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

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

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

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



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WPA Form 3 – Notice of Intent

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

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Document Transaction Number

Granby

City/Town

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

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

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

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

Granby

City/Town

C. Other Applicable Standards and Requirements

- ☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration 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 <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.



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

Granby

City/Town

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

- (c) ☐ MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/ mesa/ 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/nhesp/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:

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

North Shore - Hull to New Hampshire border:

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

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



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

Granby

City/Town

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

Online Users:

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

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

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

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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.

Plan of Land. Lot 2 West Street, Granby, MA. Owned by William E. Chapdelaine.

a. Plan Title

Smith Associates Surveyors, Inc.

Michael Smith

b. Prepared By

c. Signed and Stamped by

12/23/20

1" = 40'

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. ☒ Attach NOI Wetland Fee Transmittal Form
9. ☐ Attach Stormwater Report, if needed.

E. Fees

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

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

1027

2. Municipal Check Number

16 Jan 2021

3. Check date

1028

4. State Check Number

16 Jan 2021

5. Check date

Heather M. Comee DBA

Heather Comee Wetland Conslntr

6. Payor name on check: First Name

7. Payor name on check: Last Name



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Bureau of Resource Protection - Wetlands

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City/Town

F. Signatures and Submittal Requirements

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

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

1. Signature of Applicant	<i>William E Chapdelaine</i>	2. Date	<i>5/19/20</i>
3. Signature of Property Owner (if different)	<i>William E Chapdelaine</i>	4. Date	<i>5/19/20</i>
5. Signature of Representative (if any)	<i>Heather M. Comee</i>	6. Date	<i>18 Jan 21</i>

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.

**Addendum to
Notice of Intent for
Lot 2 West Street
(assessors ID 3-D-1)
Granby, MA**

Introduction:

Heather Comee Wetland Consultant has been retained by Mr. William Chapdelaine to file separate (Form 3) Notice of Intent (NOI) for each of the two (2) homes proposed on a lot on the southerly side of West Street in Granby, MA. The ± 13.09 acre parent parcel will be subdivided into three (3) lots, two (2) of which are proposed to be built on. Within lot 2 exists Bordering Vegetated Wetland (BVW), and bank resource of an intermittent stream both of which fall under the jurisdiction of the Massachusetts Wetland Protection Act (WPA).

Description of Property:

Lot 2 contains ± 1.85 -acres and is located within the northeast corner of the parent parcel, east of an intermittent stream with a BVW bordering its banks. Another BVW and intermittent stream exists within the easterly and southerly portions of the parent parcel and the buffer zones extend onto Lot 2. The site is currently vegetated with Red maple – *Acer rubrum*, White pine – *Pinus strobus*, Burning bush – *Euonymus alatus*, Japanese barberry – *Berberis thunbergii*, Glossy buckthorn – *Frangula alnus* and honeysuckle – *Lonicera sp.* shrubs and saplings. Residences exist to the north and west and portions of the parent parcel exist to the south and east. See **Figure 1** for the Site Locus and **Figure 2** for the 2016 Colored Aerial Photo.

Wetland Delineation:

Prior to conducting the wetland delineation, available soil, topographic, aerial, endangered species habitat and flood plain maps were reviewed. The delineations incorporated the fifty-percent or more of hydrophytic vegetation and indicators of hydrology criterion cited in the WPA. The methods cited in the manuals, *Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral & Northeast Region (version 2.0, January 2012)* were also employed. The BVW was delineated in the field with sequentially numbered blue flags, which have been depicted on the enclosed plan as V1–V21 and T100 – T120. The wetland resource area was delineated by vegetation, topography, hydric soils and hydrology.

Two (2) hand dug soil borings were conducted along the wetland line to substantiate the delineation. The soil samples and their profiles were analyzed for redoximorphic features and other indicators of hydrology utilizing the Munsell Soil Color Chart and the methods cited in the manual *Field Indicators for Identifying Hydric soils of New England Version 4, April 2019*. Pink flags labeled SB3 & SB4 were placed in the field and depicted on the plan to indicate where the Soil Borings were conducted. See **Appendix C** for data sheets.

Wetland Description

BVWs are areas that contain fifty-percent or more of hydrophytic vegetation and indicators of hydrology and are hydraulically connected to, or border on a Pond, Bank of a stream, or another BVW. The on-site wetland qualifies as BVW because it is hydraulically connected to the Banks of an intermittent stream located west of or along the westerly property line. The stream banks are located within the boundaries of the wetland and therefore were not separately delineated. BVWs are jurisdictional under the WPA and contain a 100-foot buffer zone.

V1– V21. The V-Series delineates the easterly boundary of a BVW bordering an intermittent stream. The BVW boundary was defined by a clear change in vegetation and soils which correlated well with a ± 2 -5 foot steep slope. The surficial soil within the BVW boring consisted of +22 inches of black sandy muck. The sandy loam soil within the upland boring contained a dark brown matrix directly underlain by a yellowish brown, 4-chroma, B-horizon. There was no water within the borings or other indicators of hydrology. The vegetation observed with the wetland consists primarily of Red Maple – *Acer rubrum*, Winterberry – *Ilex verticillata*, Japanese barberry – *Berberbis thunbergii*, Cinnamon Fern – *Osmunda cinnamomea*, Skunk Cabbage – *Symplocarpus foetidus*, and unknown grasses. See **Appendix D** for site photographs.

T100 – T120. The T-Series delineates the westerly boundary of a BVW bordering an intermittent stream south of the site. The BVW boundary was defined by a slight change in topography and soils. The B-horizons of the wetland soils contained 2-chroma, whereas the upland soils contained 3-chroma. The vegetation observed with the wetland consists primarily of Red Maple – *Acer rubrum*, Black cherry – *Prunus serotina*, Glossy buckthorn – *Frangula alnus*, Winterberry – *Ilex verticillata*, Japanese barberry – *Berberbis thunbergii*, Cinnamon Fern – *Osmunda cinnamomea*, and unknown grasses. See **Appendix D** for site photographs.

Intermittent Stream

Pursuant to the criteria for identifying perennial streams under the WPA the on-site stream is depicted on the USGS map as intermittent and, as measured using the distance tool on GIS, it becomes perennial approximately 275 -feet southwest of the parent parcel. See **Figure 1**. Therefore the 200-foot Riverfront Area does not extend onto the parent parcel or the subject site.

Rivers Protection Act- Stream Criteria

In accordance with the Riverfront Area definitions, a stream shown as perennial on the USGS map is perennial unless it is documented that the stream does not flow for at least four (4) non-drought days. A stream shown on the USGS map as intermittent, or not shown at all, that has a watershed area greater than one square mile or a watershed area greater than one-half square mile with 75% stratified drift is perennial. A stream qualifies as intermittent if it is depicted as intermittent, and has a watershed area of less than one-half square mile.

StreamStats Watershed Area

According to the map based presumption criteria, the on-site stream is depicted on the USGS map as intermittent. To further document that the stream is intermittent the watershed area contributing to the stream on-site and the area 200-feet down-stream of the site was calculated using the MADEP approved USGS Watershed Analysis Program. The data indicates that the watershed area contributing to the on-site stream is 0.35 square miles, thus characterizing the stream as intermittent.

Hydrology:

Hydrology to the resource areas is provided by surficial runoff from surrounding land, the intermittent streams, precipitation, and presumably groundwater.

Soils:

The soils on-site were described by the U.S. Soil Conservation Service, Soil Survey for Hampshire County, Central Part, Massachusetts (see below) as depicted on Oliver's GIS Soil Survey map (See **Figure 2**) The site is comprised of the following soils:

Scarboro Muck - This soil is deep, nearly level, and very poorly drained. It is in low areas and depressions. The permeability of this Scarboro soil is rapid or very rapid throughout the soil. Available water capacity is moderate. The root zone is restricted by a high water table that is at or near the surface during most of the year.

MeA – Merrimac sandy loam, 0 to 3 percent slopes.

MeB – Merrimac sandy loam, 3 to 8 percent slopes. These soils are deep and somewhat excessively drained. The permeability of these Merrimac soils is moderately rapid in the subsoil and rapid or very rapid in the substratum. Available water capacity is moderate.

Topography:

The site topography is fairly level to gently rolling in the developable portion of the lot, which moderately to steeply descends to the westerly wetland area and gently to the easterly wetland.

Endangered Species:

According to Oliver's MA GIS Data layers for the Massachusetts Natural Heritage and Endangered Species Program (NHESP) the site does not fall within estimated and priority habitat. **Figure 1** shows the estimated and priority habitat layers overlain on a USGS topographical map of the area.

Flood Plain:

The developable portion of the site is outside of both the 100 and 500 year flood plain areas. The 500 year flood plain exists along the westerly stream area, however does not qualify as Bordering Land Subject to Flooding. See **Figure 4**.

Proposed Activity:

The applicant proposes to construct a single-family home, and associated deck, driveway, septic system, drinking water well, utilities, and lawn area. Work is proposed within the 100-foot BVW buffer zone. A variable undisturbed buffer zone has been proposed. No activity is proposed within BVW. The proposed limit of work line has been temporarily marked with siltation fencing erosion controls and permanently marked with permanent monuments. Some areas of the siltation fence line will be reinforced with straw wattles. The limit of work line and permanent monuments have been depicted on the enclosed plan. See **Appendix E**.

Compliance with the Wetland Protection Act Performance Standards:**Bank 310 CMR 10.54**

No Bank alteration is proposed thereby meeting the criteria cited in CMR 10.54 (4).

Bordering Vegetated Wetland 310 CMR 10.55

No BVW alteration is proposed thereby meeting the criteria cited in CMR 10.55 (4).

Erosion Control:

Potential erosion and sedimentation are important concerns based on the proximity of the wetland resource area to the proposed work. Erosion control barriers consisting of entrenched siltation fencing, and straw wattles will remain in place until approval from the Commission to remove them has been obtained. All soil temporarily stockpiled on-site will be surrounded with erosion controls and placed as far from the resource areas as possible within the limit of work line.

General Project Construction Sequence:

1. Record the Order of Conditions at the Registry of Deeds and comply with Conditions.
2. The edge of the BVW shall be clearly marked.
3. Stake by survey the location of the limit of work line/erosion control line.
4. The erosion control barriers shall be installed along the limit of work line. Minimum clearing and hand installation of the erosion control barrier is preferred. At the end of each workday it will be the contractor's responsibility to verify the integrity of the siltation fence.
5. Conduct rough grading of the site.
6. Construct driveway and residence.
7. Install septic system, and well.
8. Finish driveway and grading of site.
9. Install permanent monuments.
10. A vegetative cover shall be established on exposed soil, immediately upon completion of grading.
11. Apply for a Certificate of Compliance.

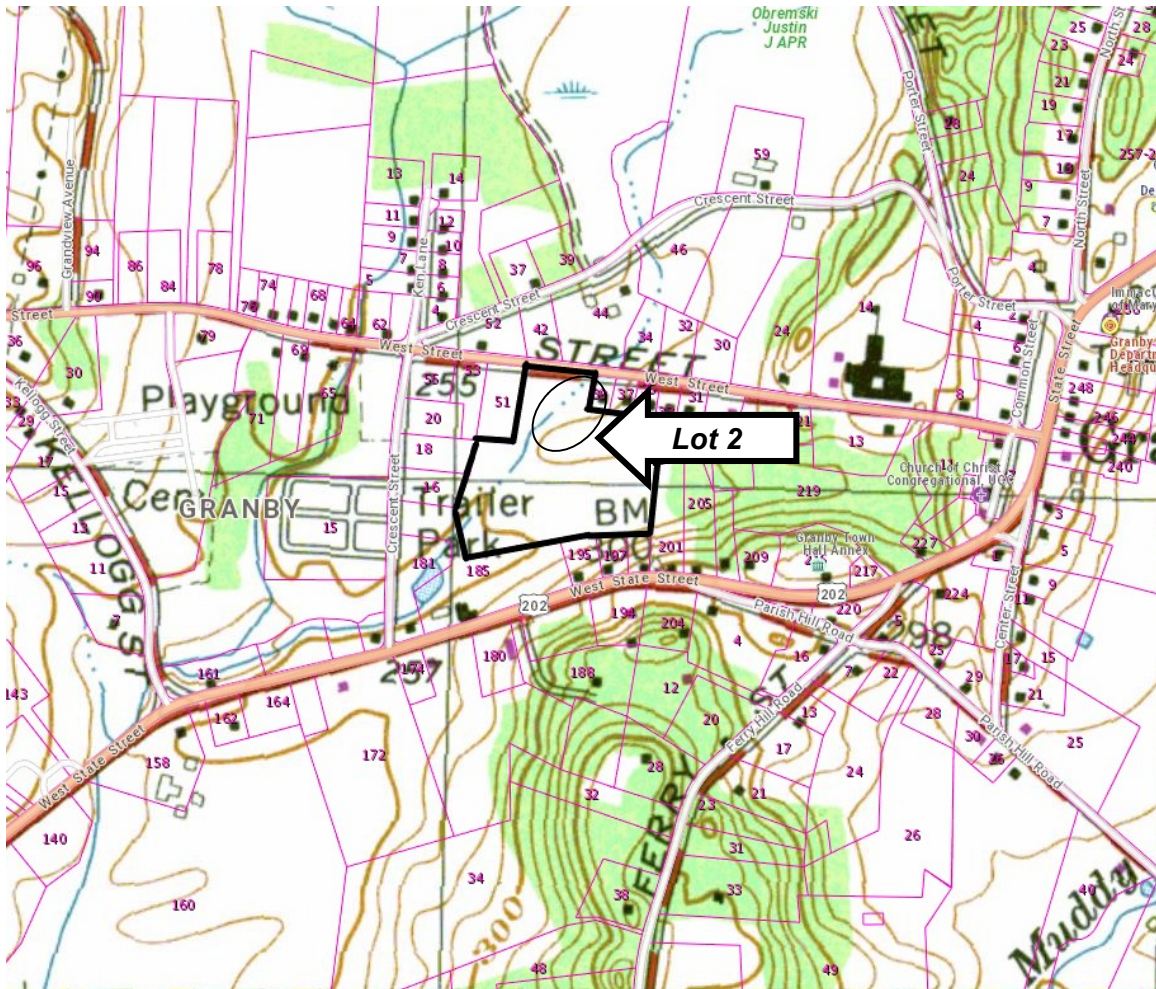
General Construction Performance Standards:

The following performance standards shall serve as limits for revisions, which will not require Conservation Commission review.

1. No additional alteration shall occur.
2. All approved activity shall employ at a minimum the erosions control precautions shown on the plans. The on-site contractor shall employ additional erosion controls as required to prevent sedimentation.
3. The on-site supervisor shall be authorized to request additional erosion control measures as he or she deems necessary to ensure the protection of all identified resource areas.

FIGURES

HEATHER COMEE WETLAND CONSULTANT
572 East River Road
Huntington, MA. 01050



NHESP Priority Habitat for State Protected Rare Species, Estimated Habitat of Rare Wildlife and Certified Vernal Pool Data Layers overlain USGS topo map.

**West Street
Granby, MA.**

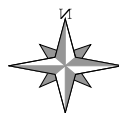
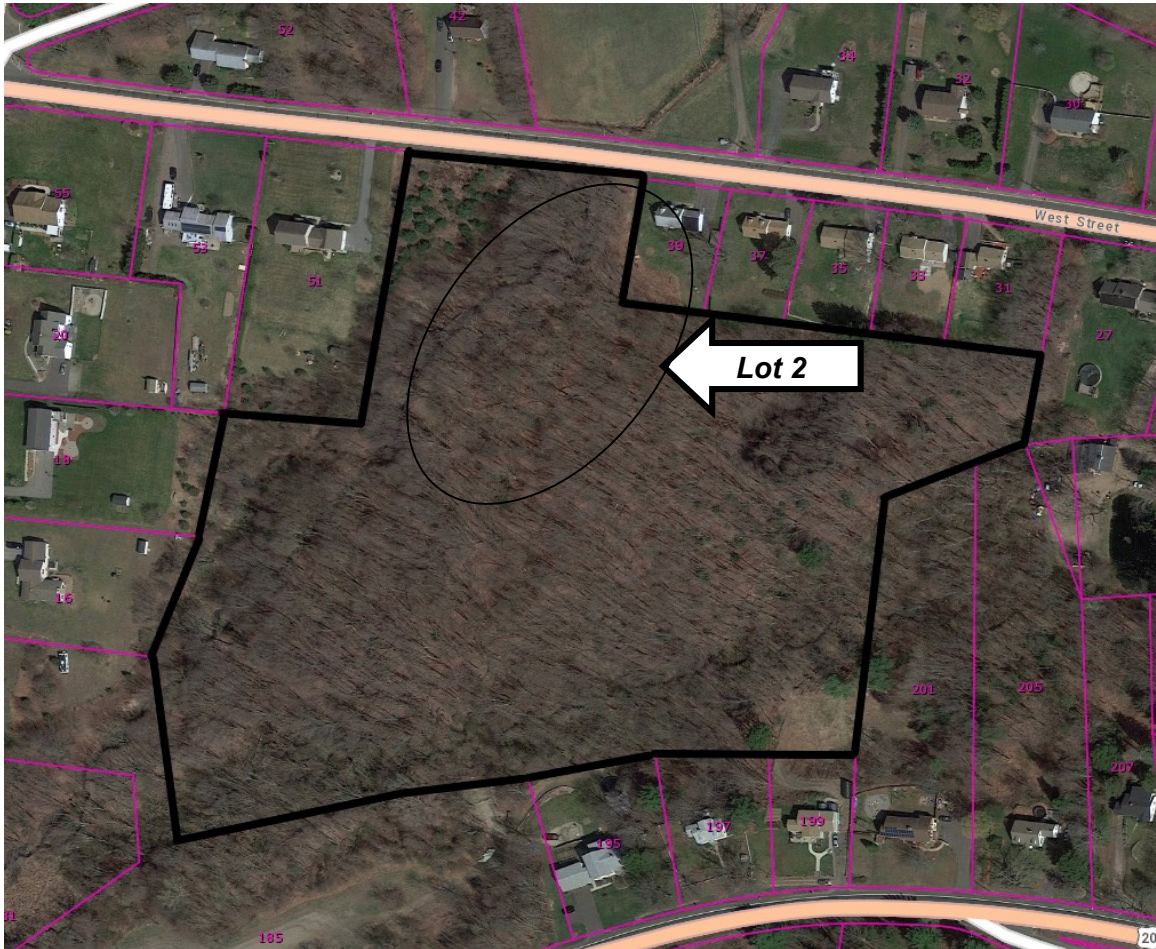


Figure 1

Job # 20-003

HEATHER COMEE WETLAND CONSULTANT
572 East River Road
Huntington, MA 01050



MA GIS 2016 Orthoimagery

West Street
Granby, MA.

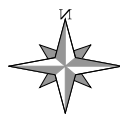
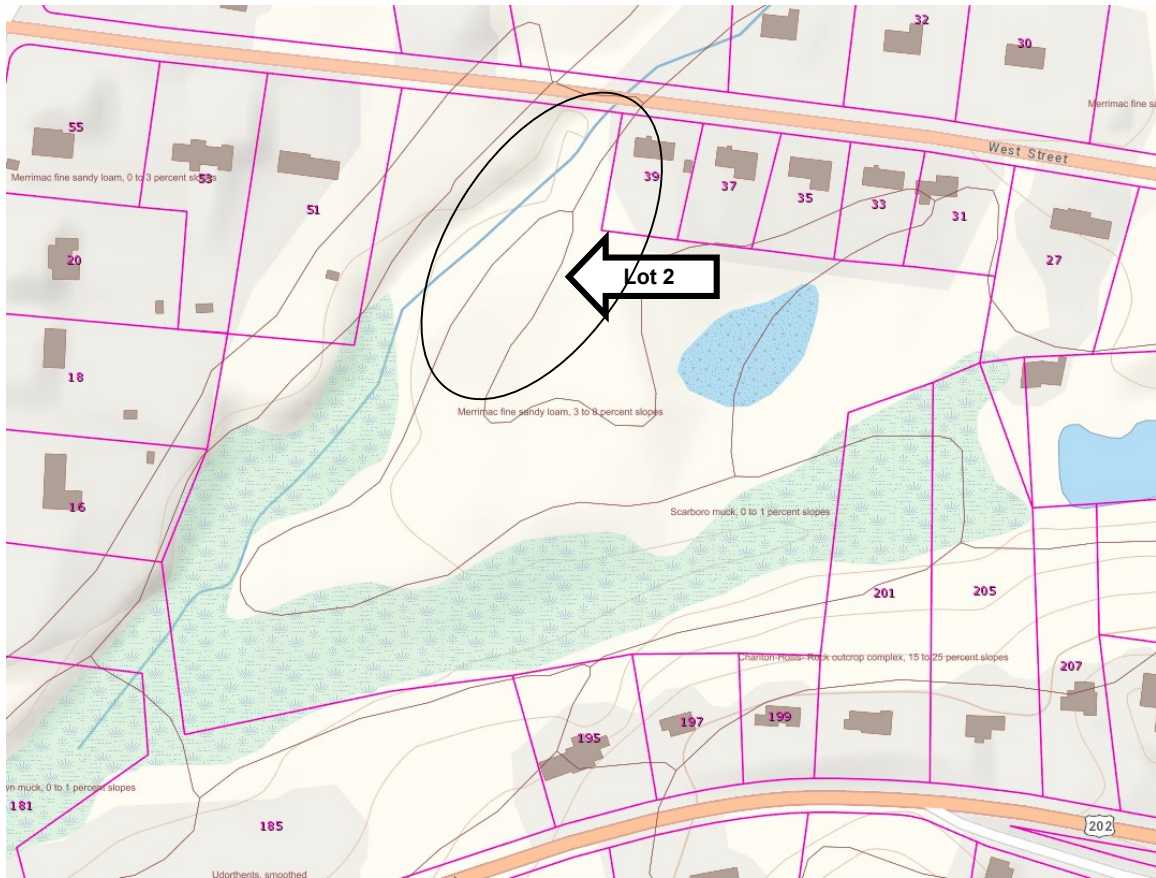


Figure 2

Job # 20-003

HEATHER COMEE WETLAND CONSULTANT
572 East River Road
Huntington, MA. 01050



MA GIS Soil datalayer

West Street
Granby, MA.

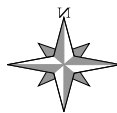


Figure 3

Job # 20-003

**HEATHER COMEE WETLAND CONSULTANT
572 East River Road
Huntington, MA. 01050**



MA GIS FEMA National Flood Hazard Layer Polygons overlain Oliver's base image

**West Street
Granby, MA.**

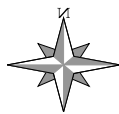


Figure 4

Job # 20-003

APPENDIX A

WETLAND FEE TRANSMITTAL FORMS



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:

3-D-1 West Street (Lot 2)

a. Street Address

1028

c. Check number

Granby

b. City/Town

\$237.50

d. Fee amount

2. Applicant Mailing Address:

William

a. First Name

Chapdelaine

b. Last Name

c. Organization

404 River Road

d. Mailing Address

South Hadley

e. City/Town

MA

f. State

01075

g. Zip Code

h. Phone Number

i. Fax Number

bjchapde@comcast.net

j. Email Address

3. Property Owner (if different):

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

B. Fees

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

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

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

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

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

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

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

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



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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
single-family home (category 2a)	1	\$500.00	\$500.00
Step 5/Total Project Fee:			\$500.00

Step 6/Fee Payments:

Total Project Fee:	\$500.00
	a. Total Fee from Step 5
State share of filing Fee:	\$237.50
	b. 1/2 Total Fee less \$12.50
City/Town share of filing Fee:	\$262.50
	c. 1/2 Total Fee plus \$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.)

HOLD TO LIGHT TO VIEW TRUE WATERMARK IN PAPER HEAT SENSITIVE RED LOCK DISAPPEARS WHEN HEATED

1027

HEATHER M COMEE DBA
HEATHER COMEE WETLAND CONSLTNT
572 E RIVER RD
HUNTINGTON, MA 01050

EZShield™ Check Fraud
Protection for Business

53-7160/2118

PAY
TO THE
ORDER OF

DATE 16 Jan 2021

Town of Granby

\$ 262.50

two hundred sixty-two and 50/100

DOLLARS



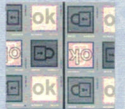
WESTFIELD BANK
WESTFIELD, MA 01086

FOR

West St lot 2 - NOI



Heather M. Comee



⑈001027⑈ ⑆211871604⑆ 1001841731⑈

HOLD TO LIGHT TO VIEW TRUE WATERMARK IN PAPER HEAT SENSITIVE RED LOCK DISAPPEARS WHEN HEATED

1028

HEATHER M COMEE DBA
HEATHER COMEE WETLAND CONSLTNT
572 E RIVER RD
HUNTINGTON, MA 01050

EZShield™ Check Fraud
Protection for Business

53-7160/2118

PAY
TO THE
ORDER OF

DATE 16 Jan 2021

Commonwealth of MA

\$ 237.50

two hundred thirty-seven and 50/100

DOLLARS



WESTFIELD BANK
WESTFIELD, MA 01086

FOR

lot 2 west St Granby - NOI



Heather M. Comee



⑈001028⑈ ⑆211871604⑆ 1001841731⑈

APPENDIX B

ABUTTERS LIST AND NOTIFICATION

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

Heather Comee Wetland Consultant, hereby certifies under the pains and penalties of perjury that on January 19, 2021 notification to abutters was given 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, in connection with the following manner:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act
by Mr. William Chapdelaine, with the Granby
Conservation Commission on January 19, 2021 for the property
located at West Street (assessors ID 3-D-1)

The form of the notification is attached to this Affidavit of Service.

Name: Heather M. Comee

19 Jan 2021

Date: _____

For HEATHER COMEE WETLAND CONSULTANT

Notification to Abutters Under the Massachusetts Wetlands Protection Act

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following.

- A. Two (2) Notice of Intents (NOI) have been filed with the MA Department of Environmental Protection (DEP) and the Granby Conservation Commission: Each for construction of a single family home and associated driveway, well, septic system, utilities, and lawn area within the 100-foot buffer zone of a Bordering Vegetated Wetland.
- B. The address of the lot where the resource areas were delineated:
(assessors ID 3-D-1) West Street
- C. The name of the applicant is: Mr. William Chapdelaine
- D. Copies of the NOI's may be examined at:
The Senior Center Building (10-B West State Street 2nd Floor, Granby, MA) in the Conservation Commission Office, by appointment.
For more information call: (413) 467-7177
- E. Copies of the NOI's may be obtained for a fee from: the applicant's representative by calling (413) 623-7100 Mon – Fri between the hours of 8:00 - 4:30.
- F. Information regarding the date, time, and place of the public hearing may be obtained by calling (413) 467-7177 during Conservation Commission office hours listed above or on the town's website.

NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days prior in a local newspaper.

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

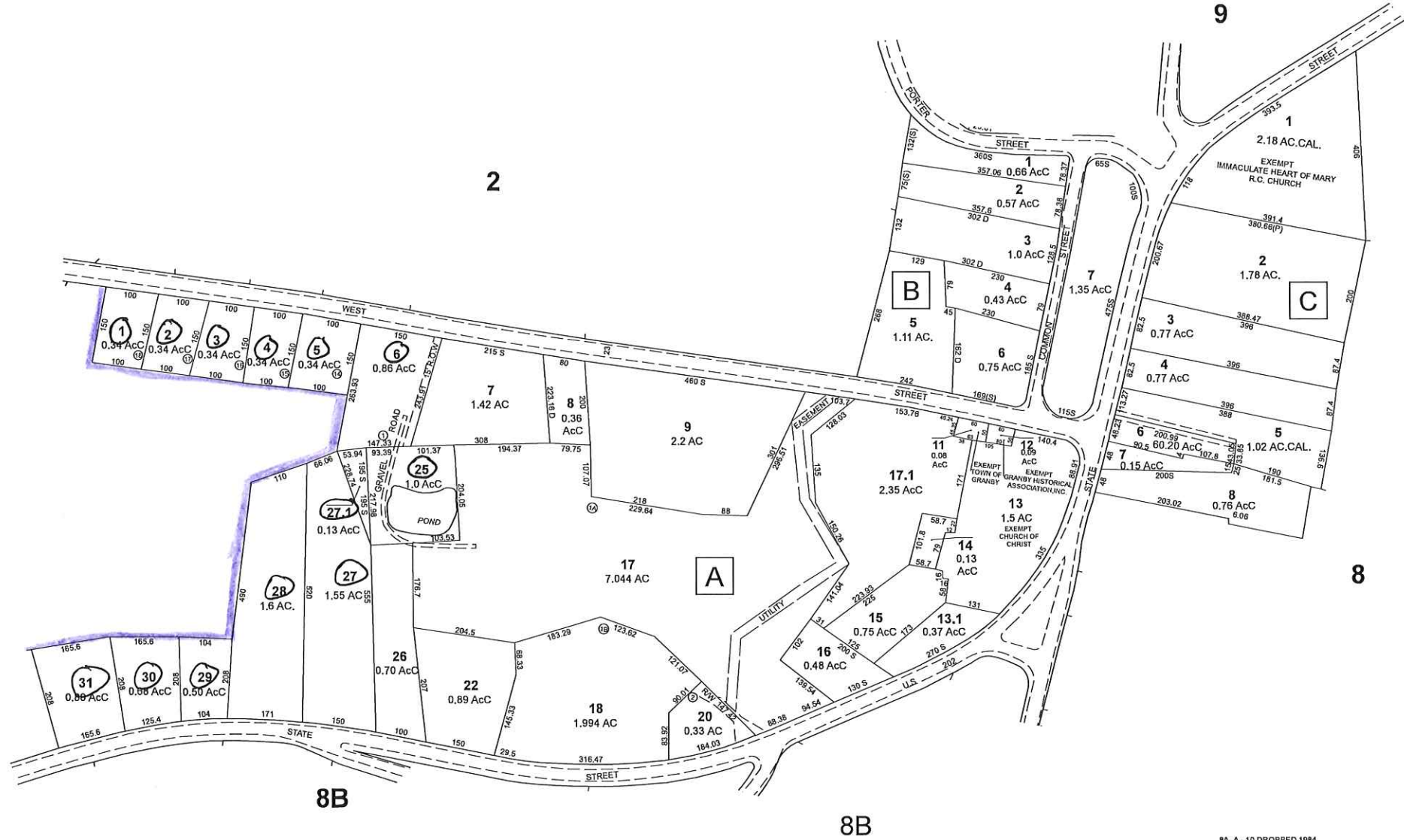
NOTE: You also may contact your local Conservation Commission or the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call:

Central Region: (508) 792-7650

Northeast Region: (617) 935-2160

Southeast Region: (508) 946-2800

Western Region: (413) 784-1100



BA-A-10 DROPPED 1984
BA-A-19 DROPPED 2005
BA-A-21 DROPPED 2005
BA-A-21.1 DROPPED 2005
BA-A-23 DROPPED 2005
BA-A-24 DROPPED 2005

THIS MAP IS FOR ASSESSMENT PURPOSES. IT IS NOT VALID FOR LEGAL DESCRIPTION OR CONVEYANCE.
THE HORIZONTAL DATUM IS THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, NAD 83.
PHOTOGRAPHY DATE: APRIL 7, 1987
COMPLETION DATE: DECEMBER 30, 1987

REVISED & REPRINTED BY
CAI Technologies
11 Phillips Street, Littleton, NE 68041
603.322.4143 - www.caitex.com

AREA SURVEYED AC
AREA CALCULATED AC
RECORD DIMENSION 100
SCALED DIMENSION 1003
MATCH LINE
WATER -W-

LEGEND
EXEMPT PROPERTY [A]
SUBDIVISION LOT NO. [B]
RIGHT OF WAY/ACCESS [C]
COMMON OWNERSHIP [D]
WETLANDS [E]

SCALE: 1" = 100'
FEET 0 50 100 150 200 250 300
METERS 0 12.5 25 37.5 50 62.5 75
REVISED TO: JANUARY 1, 2019

PROPERTY MAPS
GRANBY
MASSACHUSETTS

MAP NO.
8A

Map	Block	Lot	Unit	Owner~s Name	Co_Owner~s Name	Address	City	ST	Zip	Parcel Location
3	D	1-	1	CHAPDELAINE WILLIAM E		404 RIVER RD	SO HADLEY	MA	01075	185 WEST STATE ST
3	D	1-	2	CUDWORTH KENNETH C		16 CRESCENT ST	GRANBY	MA	01033	16 CRESCENT ST
3	D	1-	3	EVREN E EMRE &	EVREN NANCY C B	18 CRESCENT ST	GRANBY	MA	01033	18 CRESCENT ST
3	D	1-	4	SZLOSEK MEGAN &	SZLOSEK SCOTT	20 CRESCENT ST	GRANBY	MA	01033	20 CRESCENT ST
3	D	1-	6	MORENO VICTOR J &	MORENO JACQUELINE L	53 WEST ST	GRANBY	MA	01033	53 WEST ST
3	D	1-	7	PULA GABRIEL A &	PULA CHERYL L	51 WEST ST	GRANBY	MA	01033	51 WEST ST
3	D	1-	8	BERNIER LAURIE A		PO BOX 227	GRANBY	MA	01033	181 WEST STATE ST
3	E	1		ENDERS RICHARD E &	ENDERS SONYA	52 WEST ST	GRANBY	MA	01033	52 WEST ST
3	E	2		SOSA CARLOS N JR &	SOSA TAMMY L	42 WEST ST	GRANBY	MA	01033	42 WEST ST
3	E	3		ANDRADE MARIA C		46 CRESCENT ST	GRANBY	MA	01033	44 CRESCENT ST
8 A	A	A	1	SAWYER RAYMOND T &	SAWYER BETTE	PO BOX 84	GRANBY	MA	01033	39 WEST ST
8 A	A	A	2	CONDON LEAH(LE)		37 WEST ST	GRANBY	MA	01033	37 WEST ST
8 A	A	A	3	BUTLER RUTH M		35 WEST ST	GRANBY	MA	01033	35 WEST ST
8 A	A	A	4	MARTIN-HOLDEN DONNA J - TRUSTEE	THE MARTIN-HOLDEN REVOCABLE FAMILY	33 WEST ST	GRANBY	MA	01033	33 WEST ST
8 A	A	A	5	GARCIA CARLOS M		31 WEST ST	GRANBY	MA	01033	31 WEST ST
8 A	A	A	6	LEMPKE MAUREEN C		27 WEST ST	GRANBY	MA	01033	27 WEST ST
8 A	A	A	25	LEMPKE MAUREEN C		27 WEST ST	GRANBY	MA	01033	WEST ST
8 A	A	A	27	DENI ANTHONY J &	DENI SHIRLEY M	205 WEST STATE ST	GRANBY	MA	01033	205 WEST STATE ST
8 A	A	A	28	HAMEL JOHN J &	HAMEL SUSAN J	201 WEST STATE ST	GRANBY	MA	01033	201 WEST STATE ST
8 A	A	A	29	LEMELIN DENISE K		199 WEST STATE ST	GRANBY	MA	01033	199 WEST STATE ST
8 A	A	A	30	ALEXANDER REBECCA K		197 WEST STATE ST	GRANBY	MA	01033	197 WEST STATE ST
8 A	A	A	31	KWISNEK LOUIS F JR &	KWISNEK KRISTEN L	195 WEST STATE ST	GRANBY	MA	01033	195 WEST STATE ST
8 A	A	A	27-	1 LEMPKE MAUREEN C		27 WEST ST	GRANBY	MA	01033	WEST ST

4/29/2020

19-007
20-003
West St
Granby

Check type of mail or service:

- ☐ Certified
☐ COD
☐ Delivery Confirmation
☐ Express Mail
☐ Insured
☐ Recorded Delivery (International)
☐ Registered
☐ Return Receipt for Merchandise
☐ Signature Confirmation

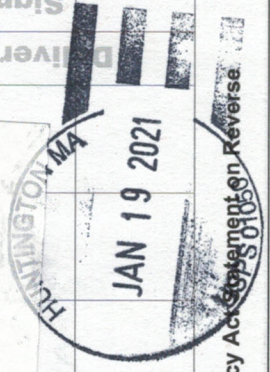
Affix Stamp Here
(If issued as a
certificate of mailing,
or for additional
copies of this bill)
Postmark and
Date of Receipt

Article Number	Addressee (Name, Street, City, State, & ZIP Code)	Postage	Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	DC Fee	SC Fee	SH Fee	RD Fee	RR Fee
1.	Mr. William E. Chapdelaine 404 River Road South Hadley, MA. 01075											
2.	Kenneth C. Cudworth 16 Crescent Street Granby, MA. 01033											
3.	Emre E. & Nancy C.B. Evren 18 Crescent Street Granby, MA. 01033											
4.	Megan & Scott Szlosek 20 Crescent Street Granby, MA. 01033											
5.	Victor J. & Jacqueline L. Moreno 53 West Street Granby, MA. 01033											
6.	Carlos N. Sosa Jr. & Tammy L. Sosa 42 West Street Granby, MA. 01033											
7.	Maria C. Andrade 46 Crescent Street Granby, MA. 01033											
8.												



0000

U.S. POSTAGE PAID
HUNTINGTON, MA
01050
JAN 19 21
AMOUNT
\$4.30
R2305K134886-03



Postmaster Per (Name of receiving employee)

Total Number of Pieces Listed by Sender **10**

Total Number of Pieces Received at Post Office **10**

See Privacy Act Statement on Reverse

Heather Comee Wetland Consultant
572 East River Road
Huntington, MA. 01050

Check type of mail or service:

- ☐ Certified
☐ COD
☐ Delivery Confirmation
☐ Express Mail
☐ Insured

- ☐ Recorded Delivery (International)
☐ Registered
☐ Return Receipt for Merchandise
☐ Signature Confirmation

Affix Stamp Here
(If issued as a
certificate of mailing,
or for additional
copies of this bill)
Postmark and
Date of Receipt

Article Number	Addressee (Name, Street, City, State, & ZIP Code)	Postage	Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	DC Fee	SC Fee	SH Fee	RD Fee	RR Fee
1.	Raymond T. & Bette Sawyer P.O. Box 84 Granby, MA. 01033											
2.	Leah (LE) Condon 37 West Street Granby, MA. 01033											
3.	Ruth M. Butler 35 West Street Granby, MA. 01033											
4.	Donna J. Martin-Holden- Trustee & The Martin-Holden Revocable Family 33 West Street Granby, MA. 01033											
5.	Carlos M. Garcia 31 West Street Granby, MA. 01033											
6.												
7.												
8.												

U.S. POSTAGE PAID
HUNTINGTON, MA
01050
JAN 19 21
AMOUNT
\$3.44
R2305K134886-03

0000

UNITED STATES
POSTAL SERVICE®

HUNTINGTON MA
JAN 19 2021
USPS 01050

Total Number of Pieces Listed by Sender: 8

Total Number of Pieces Received at Post Office: 8

Postmaster, Per (Name of receiving employee): [Signature]

Complete by Typewriter, Ink, or Ball Point Pen

PS Form 3877, February 2002 (Page 1 of 2)

See Privacy Act Statement on Reverse

Check type of mail or service:

- ☐ Certified
☐ COD
☐ Registered
☐ Delivery Confirmation
☐ Express Mail
☐ Insured
☐ Recorded Delivery (International)
☐ Return Receipt for Merchandise
☐ Signature Confirmation

Affix Stamp Here
(If issued as a
certificate of mailing,
or for additional
copies of this bill)
Postmark and
Date of Receipt

20-003
West St
Granby

Article Number	Addressee (Name, Street, City, State, & ZIP Code)	Postage	Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	DC Fee	SC Fee	SH Fee	RD Fee	RR Fee
1	Denise K. Lemelin 199 West State Street Granby, MA. 01033											
2	Rebecca K. Alexander 197 West State Street Granby, MA. 01033											
3	Louis F. Kwisnek Jr. & Kristen L. Kwisnek 195 West State Street Granby, MA. 01033											
4												
5												
6												
7												
8												



0000

U.S. POSTAGE PAID
HUNTINGTON, MA
01050
JAN 19, 21
AMOUNT
\$1.29
R2305K134886-03



Return Receipt
Restricted Delivery
Special Handling
Signature Confirmation
Delivery Confirmation

Postmaster, Per (Name of receiving employee)

Total Number of Pieces Listed by Sender **3**

Total Number of Pieces Received at Post Office **3**

See Privacy Act Statement on Reverse

Complete by Typewriter, Ink, or Ball Point Pen

APPENDIX C

SOIL BORINGS

Section II. Indicators of Hydrology

West Street, Granby, MA.

March 18, 2020

Hydric Soil Interpretation

SB3 below V8 ½

1. Soil Survey

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

Title/date: MA GIS

Map number:

Soil type mapped: Scarboro muck

Hydric soil inclusions: Yes

Are field observations consistent with soil survey? Yes ☒ No ☐

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Texture	Redox
O	0 – 22"	10yr 2/1	s muck	

Remarks:

Vegetation observed within the area consisted primarily of skunk cabbage, multiflora rose, Japanese barberry, red maple, and winterberry.

This soil boring meets the S1 hydric soil profile of NEIWPCC's 2019 Field Indicators for Identifying Hydric Soils in New England.

Other

Conclusion: Is soil hydric? Yes ☒ No ☐

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

<input type="checkbox"/>	Site inundated:	_____
<input type="checkbox"/>	Depth to free water in observation hole:	_____
<input type="checkbox"/>	Depth to soil saturation in observation hole:	_____
<input type="checkbox"/>	Water marks:	_____
<input type="checkbox"/>	Drift lines:	_____
<input type="checkbox"/>	Sediment deposits:	_____
<input type="checkbox"/>	Drainage patterns in BVW:	_____
<input type="checkbox"/>	Oxidized rhizospheres:	_____
<input type="checkbox"/>	Water-stained leaves:	_____
<input type="checkbox"/>	Recorded data (stream, lake, or tidal gauge; aerial photo; other):	_____

☐ Other: _____

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants \geq number of non-wetland indicator plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wetland hydrology present:		
hydric soil present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
other indicators of hydrology present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample location is in a BVW	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Section II. Indicators of Hydrology

West Street, Granby, MA.

March 18, 2020

Hydric Soil Interpretation SB4 above V8 ½

3. Soil Survey

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

Title/date: MA GIS

Map number: _____

Soil type mapped: Scarboro muck

Hydric soil inclusions: Yes

Are field observations consistent with soil survey? Yes ☐ No ☒

Remarks:

4. Soil Description

Horizon	Depth	Matrix Color	Texture	Redox
A	0 – 10"	10yr 2/2	sl	
A	10- 16"	10yr 2/1	sl	
B	16- 23"	10yr 3/4	sl	20-23" 2% 7.5yr 4/6

sl sandy loam

Remarks:

Vegetation observed within the area consisted primarily of red maple, unk. fern, unk. shrub, and Japanese barberry.

This soil boring does not meet any of the hydric soil profiles of NEIWPCC's 2019 Field Indicators for Identifying Hydric Soils in New England.

Other

Conclusion: Is soil hydric? Yes ☐ No ☒

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

<input type="checkbox"/>	Site inundated: _____
<input type="checkbox"/>	Depth to free water in observation hole: _____
<input type="checkbox"/>	Depth to soil saturation in observation hole: _____
<input type="checkbox"/>	Water marks: _____
<input type="checkbox"/>	Drift lines: _____
<input type="checkbox"/>	Sediment deposits: _____
<input type="checkbox"/>	Drainage patterns in BVW: _____
<input type="checkbox"/>	Oxidized rhizospheres: _____
<input type="checkbox"/>	Water-stained leaves: _____
<input type="checkbox"/>	Recorded data (stream, lake, or tidal gauge; aerial photo; other): _____

☐ Other: _____

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants \geq number of non-wetland indicator plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wetland hydrology present:		
hydric soil present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
other indicators of hydrology present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample location is in a BVW	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

APPENDIX D

SITE PHOTOGRAPHS

Site Photos – West St, Granby, MA



SB3 - Hydric

3-18-20



Northerly view of T114 wetland area



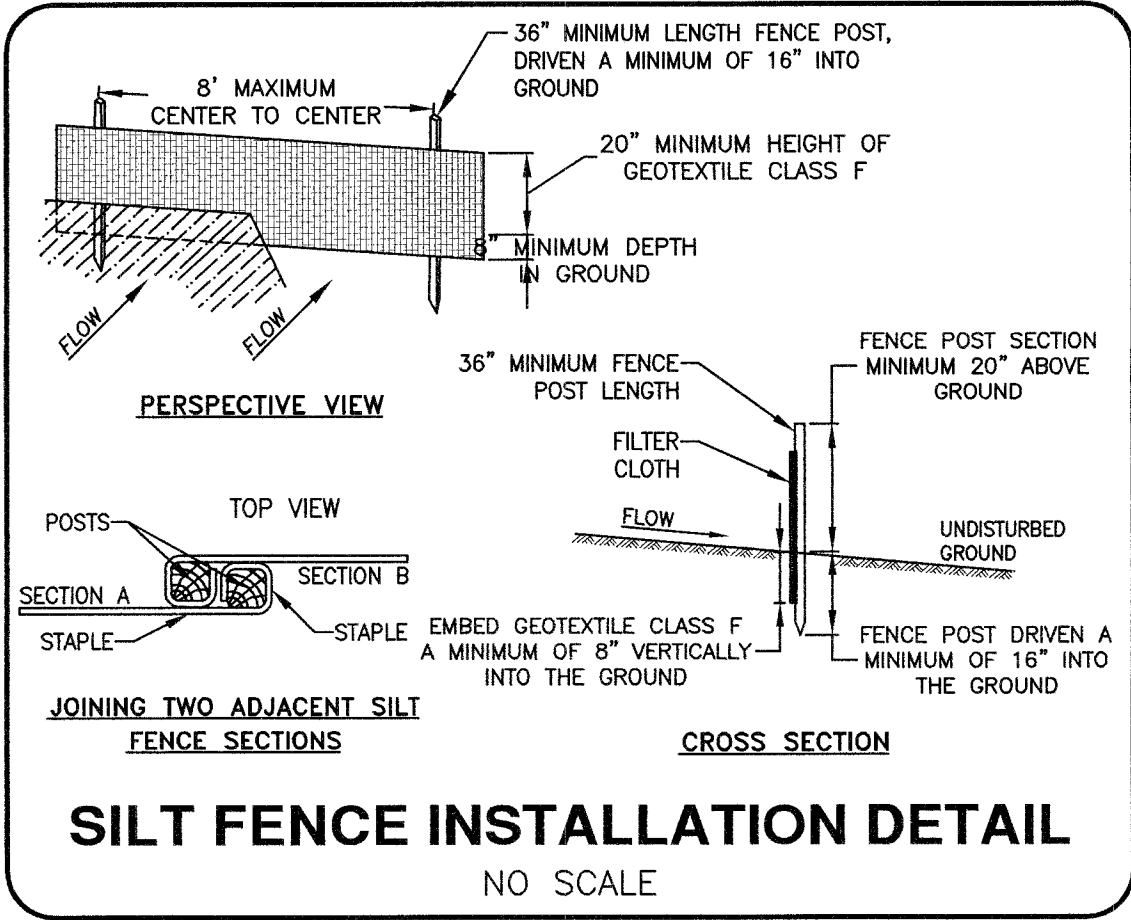
SB4 – Non-hydric



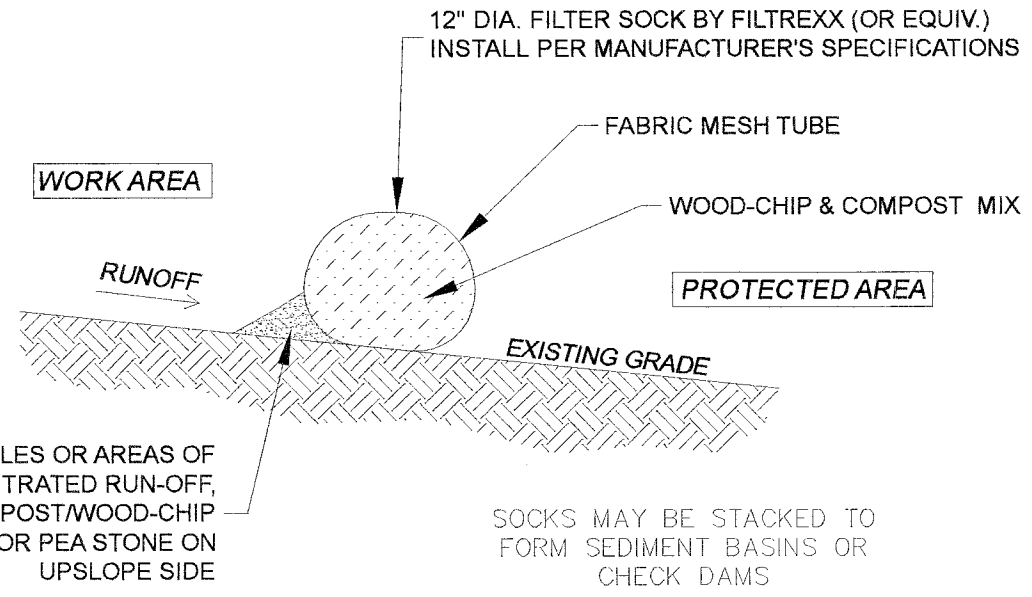
Upland area in general proximity to proposed house site

APPENDIX E

SITE PLANS



EROSION CONTROL LOG
NO SCALE



SILT FENCE INSTALLATION NOTES

1. THIS SEDIMENT BARRIER UTILIZES MIRAFI ENVIROFENCE (100X) OR EQUAL. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.
2. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES (HIGHER BARRIERS MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE). IDEALLY THE FILTER FENCE SHALL BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPE.
3. WHEN JOINTS ARE NECESSARY, FILTER FABRICS SHALL BE SPICED TOGETHER ONLY AT A SUPPORT STAKES WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATION.
4. STAKES SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). IN APPLICATIONS WHERE HEAVY FLOWS ARE EXPECTED SUCH AS IN-STREAM INSTALLATIONS STAKE SPACING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND/OR THE ENGINEERS RECOMMENDATIONS.
5. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF STAKES AND UPSLOPE FROM THE BARRIER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. THE PRE ASSEMBLED SILT FENCE SYSTEM SHALL BE UNROLLED, POSITION THE STAKES ON THE DOWNHILL SIDE OF THE TRENCH AND HAMMER THE STAKES AT LEAST 12 INCHES INTO THE GROUND.
7. THE BOTTOM SIX (6) INCHES OF THE FABRIC SHALL BE LAID INTO THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUNOFF.
8. BACKFILL THE TRENCH OVER THE FILTER FABRIC AND COMPACT SUFFICIENTLY TO PREVENT THE RUNOFF FROM ERODING THE BACKFILL.
9. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES OR SUPPORTS OTHER THAN THE STANDARD STAKES.
10. INSTALLED SILT FENCE BARRIERS SHALL BE MAINTAINED ON A REGULAR SCHEDULE WHICH MAY BE PRESCRIBED BY THE LOCAL, STATE OF FEDERAL REGULATORY AUTHORITY; BUT, AT MINIMUM SHALL BE CHECKED WEEKLY AS WELL AS AFTER EACH STORM EVENT. MAINTENANCE SHALL CONSIST OF AN INSPECTION OF THE ENTIRE LENGTH OF THE BARRIER TO DETERMINE IF IT IS FUNCTIONING AS INTENDED. ALL BREAKS, DETACHED FABRIC, SLUMPED FABRIC, CLOGGED FABRIC, AND UNDERMINED AREAS SHALL BE FIXED THE DAY THAT THEY ARE DISCOVERED.
11. WHEN A MAXIMUM OF SIX (6) INCHES OF SEDIMENT HAS ACCUMULATED BEHIND THE SILT FENCE THIS SEDIMENT SHALL BE REMOVED AND THE FENCE SHALL BE INSPECTED FOR TEARS, CLOGGING OF BREAKS. ALL DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY EITHER BY REPAIR OF REPLACEMENT OF THE SILT FENCE BARRIER AND/OR STAKES AS NEEDED.
12. SILT FENCE BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN CLEANED OF SILT AND PERMANENTLY STABILIZED.

