



**NORSE ENVIRONMENTAL SERVICES, INC.**

*92 Middlesex Road, Unit 4*

*Tyngsboro, MA 01879*

*TEL. (978) 649-9932 • FAX (978) 649-7582*

*Website: [www.norseenvironmental.com](http://www.norseenvironmental.com)*

## **NOTICE OF INTENT**

**FOR**

**314 ARLINGTON STREET  
BUILDING LOT 3**

**ASSESSORS MAP F2-A PARCEL 123**

**ACTON, MA**

**JANUARY 2012**

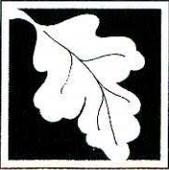
**APPLICANT: HOBBYHORSE, LLC**

**PROJECT:** 314 ARLINGTON STREET – BUILDING LOT 3  
ACTON

**APPLICANT:** HOBBYHORSE, LLC

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# WPA Form 3 – Notice of Intent

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

MassDEP File Number

Document Transaction Number

Acton

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):

314 Arlington Street Building Lot 3

a. Street Address

Acton

b. City/Town

01720

c. Zip Code

Latitude and Longitude:

042 28' 26.1" N

d. Latitude

071 28' 43.3" W

e. Longitude

F2-A

f. Assessors Map/Plat Number

Parcel 123

g. Parcel /Lot Number

2. Applicant:

Brian

a. First Name

Lussier

b. Last Name

Hobbyhorse, LLC

c. Organization

2100 Lakeview Ave

d. Street Address

Dracut

e. City/Town

MA

f. State

01826

g. Zip Code

978-957-8110

h. Phone Number

i. Fax Number

brian.comforthomes@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):

Steven

a. First Name

Eriksen

b. Last Name

Norse Environmental Services, Inc.

c. Company

92 Middlesex Road, Unit 4

d. Street Address

Tyngsboro

e. City/Town

MA

f. State

01879

g. Zip Code

978-649-9932

h. Phone Number

978-649-7582

i. Fax Number

norseenvironmental@verizon.net

j. Email address

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

\$500.00

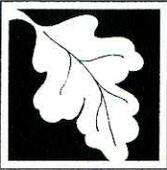
a. Total Fee Paid

\$237.50

b. State Fee Paid

\$262.50

c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

The applicant is proposing to construct a single family dwelling, deck, driveway, retaining wall, rain garden, associated grading and utilities within 100' of a bordering vegetated wetland.

7a. Project Type Checklist:

- 1. [X] Single Family Home
2. [ ] Residential Subdivision
3. [ ] Limited Project Driveway Crossing
4. [ ] Commercial/Industrial
5. [ ] Dock/Pier
6. [ ] Utilities
7. [ ] Coastal Engineering Structure
8. [ ] Agriculture (e.g., cranberries, forestry)
9. [ ] Transportation
10. [ ] Other

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

1. [ ] Yes [X] No If yes, describe which limited project applies to this project:

2. Limited Project

8. Property recorded at the Registry of Deeds for:

Middlesex South

a. County

57250

c. Book

b. Certificate # (if registered land)

552

d. Page Number

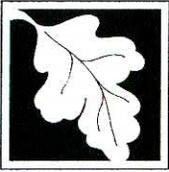
B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. [X] 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.

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

Table with 3 columns: Resource Area, Size of Proposed Alteration, Proposed Replacement (if any). Rows include Bank, Bordering Vegetated Wetland, and Land Under Waterbodies and Waterways.



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Provided by MassDEP:

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

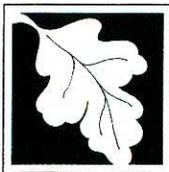
Resource Area, Size of Proposed Alteration, Proposed Replacement (if any)
d. Bordering Land Subject to Flooding
e. Isolated Land Subject to Flooding
f. Riverfront Area
2. Width of Riverfront Area (check one)
3. Total area of Riverfront Area on the site of the proposed project:
4. Proposed alteration of the Riverfront Area:
5. Has an alternatives analysis been done and is it attached to this NOI?
6. Was the lot where the activity is proposed created prior to August 1, 1996?

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

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. Designated Port Areas
b. Land Under the Ocean
c. Barrier Beach
d. Coastal Beaches
e. Coastal Dunes



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

	<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 BWW _____	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 _____

## C. Other Applicable Standards and Requirements

### 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://www.mass.gov/dfwele/dfw/nhosp/regulatory\\_review/priority\\_habitat/online\\_viewer.htm](http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/priority_habitat/online_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  
Route 135, North Drive  
Westborough, MA 01581**

January 2012  
b. Date of map \_\_\_\_\_



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

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.C, and include requested materials with this Notice of Intent (NOI); OR complete Section C.1.d, 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).*

### 1. 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

3.  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

(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

### d. 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.)

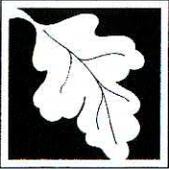
2.  Separate MESA review ongoing.

\_\_\_\_\_ a. NHESP Tracking #

\_\_\_\_\_ b. Date submitted to NHESP

\* Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/dfwele/dfw/nhosp/nhosp.htm>, regulatory review tab). 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)

3.  Separate MESA review completed.  
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
2. 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 or hand delivery of NOI to either:

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

North Shore - Hull to New Hampshire:

Division of Marine Fisheries -  
Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
1213 Purchase Street – 3rd Floor  
New Bedford, MA 02740-6694

Division of Marine Fisheries -  
North Shore Office  
Attn: Environmental Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930

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.

3. 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

4. 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

5. 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

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

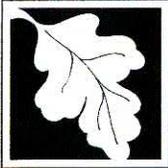
a.  Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

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

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



# WPA Form 3 – Notice of Intent

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

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

- 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

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.
- 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.

### Subsurface Sewage Disposal

a. Plan Title

Hancock Associates

b. Prepared By

12/23/11

d. Final Revision Date

John Boardman P.E.

c. Signed and Stamped by

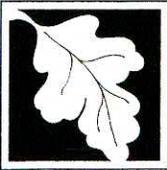
1"=20'

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.



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## E. Fees

- 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:

Town of Acton Check #2821	1/18/2012
2. Municipal Check Number	3. Check date
Commonwealth of MA Check #2820	1/18/2012
4. State Check Number	5. Check date
Brian	Lussier
6. Payor name on check: First Name	7. Payor name on check: Last Name

## 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

2. Date

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

6. Date

### For Conservation Commission:

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

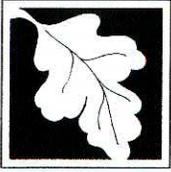
### For MassDEP:

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

### Other:

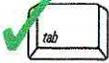
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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



**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. Applicant:

Brian \_\_\_\_\_ Lussier \_\_\_\_\_  
 a. First Name b. Last Name  
 Hobbyhorse, LLC \_\_\_\_\_  
 c. Organization  
 2100 Lakeview Ave \_\_\_\_\_  
 d. Mailing Address  
 Dracut \_\_\_\_\_ MA \_\_\_\_\_ 01826 \_\_\_\_\_  
 e. City/Town f. State g. Zip Code  
 978-957-8110 \_\_\_\_\_ brian.comforthomes@comcast.net \_\_\_\_\_  
 h. Phone Number i. Fax Number j. Email Address

2. 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

3. Project Location:

314 Arlington Street Building Lot 3 \_\_\_\_\_ Acton \_\_\_\_\_  
 a. Street Address b. City/Town

**B. Fees**

The fee should be calculated using the following six-step process and 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.

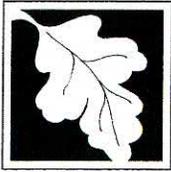
**Step 3/Individual Activity Fee:** Identify each activity fee from the six project categories listed in the instructions.

**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
Category 2 (a)		\$500.00	\$500.00

**Step 5/Total Project Fee:** \$500.00

**Step 6/Fee Payments:**

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

**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.)

**NOTIFICATION TO ABUTTERS  
UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT  
AND THE TOWN OF ACTON WETLANDS BYLAW**

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40 and the Town of Acton Bylaws, you are hereby notified of the following:

The Applicant: Hobbyhorse, LLC

Address: 2100 Lakeview Ave, Dracut, MA 01826 Phone: 978-957-8110

has filed a Notice of Intent with the Acton Conservation Commission seeking permission to remove, fill, dredge, or alter an Area Subject to Protection under the Wetlands Protection Act.

Applicant's Representative: Norse Environmental Services, Inc.

Address: 92 Middlesex Road Unit 4, Tyngsboro, MA 01879 Phone: 978-649-9932

The address of the property where the activity is proposed: 314 Arlington Street - Building Lot 3.

Town Atlas Plate/Map: F2-A Parcel/Lot: 123

Project Description: The applicant is proposing to construct a single family dwelling, deck, driveway, retaining wall, rain garden, associated grading and utilities.

Copies of the Notice of Intent may be examined at the Conservation Office, Acton Town Hall, 472 Main Street, Acton between the hours of 9:00 A.M. and 4:30 P.M. Monday through Friday. For more information please call the Conservation Office at 978-264-9631.

Copies of the Notice of Intent may be obtained from either (check one) the applicant , or the Conservation Commission , or by calling this telephone number 978- 649-9932 between the hours of 8:00 A.M. and 6:00 P.M. Monday thru Thursday/Friday until 12:00 p.m.

A Public Hearing will be held at the Acton Town Hall, 472 Main Street, Room 204, on Wednesday, February 1, 2012 at 7:45 P.M.

The notice of public hearing will be published at least five (5) days in advance in the Acton edition of the *Beacon* newspaper or *Metrowest Daily News*.

**Note:** You also may contact you local Conservation Commission or the nearest Department of Environmental Protection Regional Office\* for more information about this application or, the Wetland Protection Act. Acton is in the Central Region. To contact DEP Call:

**\*DEP Central Region: (508) 792-7650  
627 Main Street, Worcester MA 01608**

If you have any further questions please call Steven Eriksen at Norse Environmental Services, Inc., (978) 649-9932.

**Please Note:** Copies of the NOI \$1.00 per page  
Copies of the Plans \$5.00 per plan  
(Copies may be obtained from Norse Environmental Services for the above fees)



Town of Acton  
472 Main Street  
Acton, MA 01720  
Telephone (978) 929-6621  
Fax (978) 264-9630

Brian McMullen  
Assessor

Locus: 314 ARLINGTON ST  
Parcel ID: F2A 123

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
310 ARLINGTON ST	F2.A-124	HORBER ELIZABETH R		310 ARLINGTON ST	ACTON	MA	01720
306 ARLINGTON ST	F2.A-125	SHEEHAN THOMAS M	LILLIAN	306 ARLINGTON ST	ACTON	MA	01720
300 ARLINGTON ST	F2.A-126	MURPHY J MICHAEL		300 ARLINGTON ST	ACTON	MA	01720
264 CENTRAL ST	F2.A-127	FELTUS DONALD O	C/O FELTUS REALTY TR	PO BOX 812	ACTON	MA	01720
316 ARLINGTON ST	F1- 62-1	FEINNGER CHARLES A + KATHERINE A		316 ARLINGTON ST	ACTON	MA	01720
303 ARLINGTON ST	F2.A-107	WESOLOWSKI PAUL + PATRICIA		303 ARLINGTON ST	ACTON	MA	01720
305 ARLINGTON ST	F2.A-106	NISBET WILLIAM JR + KIMBERLY A		305 ARLINGTON ST	ACTON	MA	01720
615 MASS AVE	F2.A-54	REID EMMETT H + MARIE G		PO BOX 775	LORTON	VA	22199
27 HOMESTEAD ST	F2-B-42	KELLY GERALDINE + FRANCIS J		27 HOMESTEAD ST	ACTON	MA	01720
240 CENTRAL ST	F2-B33-A	SANDOCK DEBORAH		240 CENTRAL ST	ACTON	MA	01720
301 ARLINGTON ST	F2-A-72	TOWN OF ACTON		472 MAIN ST	ACTON	MA	01720

The owner of land sharing a common boundary or corner with the site of the proposed activity (100 feet) in any direction, including land located directly across a street, way, creek, river, stream, brook or canal. The above are as they appear on the most recent applicable taxes.

MARTY ABBOTT

17-Nov-11

Acton Assessors Office

## AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

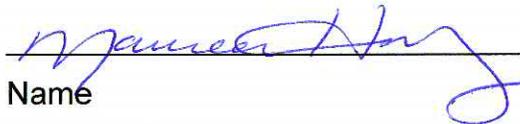
(To be submitted to the Massachusetts Department of Environmental Protection and the Conservation Commission when filing a Notice of Intent)

I, Maureen Hanley, hereby certify under the pains and penalties of perjury that on January 19, 2012 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Law Chapter 131, Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by Hobbyhorse, LLC with the Acton Conservation Commission on January 19, 2012 for property located at 314 Arlington Street Building Lot 3, Acton.

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

Name



Date

1-19-12



**NORSE ENVIRONMENTAL SERVICES, INC.**

**92 Middlesex Road, Unit 4**

**Tyngsboro, MA 01879**

**TEL. (978) 649-9932 • FAX (978) 649-7582**

**Website: [www.norseenvironmental.com](http://www.norseenvironmental.com)**

## **Notice of Intent Report**

**For**

**314 Arlington Street**

**Building Lot 3**

**Acton, MA**

**Prepared For:**

Hobbyhorse LLC  
2100 Lakeview Ave  
Dracut, MA 01826

**Prepared By:**

Norse Environmental Services, Inc.  
92 Middlesex Road, Unit 4  
Tyngsboro, MA 01879

January 2012

## **Narrative**

The applicant is proposing to construct a single family dwelling, deck, driveway, retaining wall, rain garden, associated grading and utilities within the 100 ft. Buffer Zone of a Bordering Vegetated Wetland. Erosion controls will be set and maintained throughout the entire project.

### **Site Description**

The site consists of approximately 2.17 acres of land with an existing single family home and driveway located on the property. The applicant is proposing to subdivide the lot into (3) building lots. The majority of the lot is cleared of vegetation and is maintained as lawn area except along the easterly property line.

A Bordering Vegetated Wetland and associated intermittent stream is located along the easterly property line. The wetland is a red maple swamp wetland and is shown on the plans as 1A-14A. The red maple swamp consists of red maple (*Acer rubrum*) and black cherry (*Prunus serotina*) in the overstory. The understory consists of multiflora rose (*Rosa multiflora*), glossy buckthorn (*Rhamnus frangula*), and tartarian honeysuckle (*Lonicera tatarica*). The herbaceous layer consists of Jewelweed (*Impatiens capensis*) and kentucky bluegrass (*Poa pratensis*).

### **Soils**

The Middlesex County Soil Survey maps this site as Deerfield and Hinckley series. Deerfield series consists of nearly level gently sloping, deep (5+ ft.), moderately well drained soils on glacial outwash plains, terraces and deltas. They formed in sands. Deerfield soils have a loamy fine sand to sand surface soil and subsoil with a rapid permeability, over a loamy sand to coarse sand substrata with very rapid permeability. They have a seasonal high water table at 18 to 36 inches. Major limitations are related to wetness.

Hinckley series consists of nearly level to very steep, deep (5+ ft.), excessively drained soils on glacial outwash plain, terraces, kames, and eskers. They formed in gravelly and

cobbly coarse textured glacial outwash. Hinckley soils have friable or loose, gravelly and very gravelly sandy loam to loamy coarse sand surface soil and subsoil with rapid permeability, with loose stratified sands and gravels in the substratum at 12 to 30 inches which have a very rapid permeability. Major limitations are related to slope and droughtiness.

### **Proposed Work**

The applicant is proposing to construct a single family dwelling, deck, driveway, retaining wall, rain garden, associated grading and utilities within the 100 ft. Buffer Zone of a Bordering Vegetated Wetland. Erosion controls will be set and maintained throughout the entire project.

### **Town of Acton Wetlands Protection By-Law, Chapter F**

The Acton Wetlands Protection Bylaw, Chapter F Section F8.3 Setback for Activities states, “The following are the minimum distances (setbacks) of activity from the edge of wetlands or vernal pools. No activity shall be allowed within these setbacks except as provided below. These setbacks are the minimum and may be extended further if deemed necessary for the protection of the interests of the Bylaw by the Commission; (2) 50-foot buffer of undisturbed natural vegetation; (3) 75-foot setback to the edge of driveways, roadways, and structures.”

The applicant meets these requirements as a 50-foot buffer of undisturbed natural vegetation is provided and the driveway and structures are proposed greater than 75 feet from the wetland.

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

**Applicant:** Comfort Homes     
 **Prepared by:** Steven Eriksen     
 **Project location:** 314 Arlington Street - Acton     
 **DEP File No.:** \_\_\_\_\_  
 Check all that apply:

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

**Section I.      Vegetation      Observation Plot Number:**      **Transect Number:** SP-1      **Date of Delineation:** 5/18/11

A. Sample Layer and Plant Species (by common/scientific name)	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b>TREES:</b>				
Red Maple ( <i>Acer rubrum</i> )	10%	33%	Y	Fac*
Black Cherry ( <i>Prunus serotina</i> )	10%	33%	Y	FacU
Slippery Elm ( <i>Ulmus rubra</i> )	10%	33%	Y	Fac*
<b>SHRUBS:</b>				
Glossy Buckthorn ( <i>Rhamnus frangula</i> )	20%	100%	Y	Fac*
<b>HERBS:</b>				
Kentucky Bluegrass ( <i>Poa pratensis</i> )	25%	33%	Y	FacU
Jewelweed ( <i>Impatiens capensis</i> )	50%	67%	Y	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.

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. MA DEP;3/95

**Vegetation conclusion:**  
**Number of dominant wetland indicator plants:**      4      **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

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

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

title/date: Web Soil Survey

map number: 256A

soil type mapped: Deerfield Soil

hydric soil inclusions:

Are field observations consistent with soil survey? **Yes** No

Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
Ap	0-9"	10 YR 2/2	
Bw	9-20"	2.5Y 3/3	

Remarks: > 20% redoximorphic features

#### 3. Other:

Conclusion: Is soil hydric? **Yes** No

### Other Indicators of Hydrology: (check all that apply and 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 BVW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):  
\_\_\_\_\_
- Other: \_\_\_\_\_

Delineating Bordering Vegetated Wetlands

### Vegetation and Hydrology Conclusion

	yes	no
Number of wetland indicator plants		
≥ number of non-wetland indicator plants	X	
Wetland hydrology present:		
Hydric soil present	X	
Other indicators of hydrology present:	X	
Sample location is in the BVW	X	

82

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

**Applicant:** Comfort Homes      **Prepared by:** Steven Eriksen      **Project location:** 314 Arlington Street – Acton      **DEP File No.:** \_\_\_\_\_  
 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)

<b>Section I.</b>	<b>Vegetation</b>	<b>Observation Plot Number:</b>	<b>Transect Number:</b> SP-2	<b>Date of Delineation:</b> 5/18/11
-------------------	-------------------	---------------------------------	------------------------------	-------------------------------------

A. Sample Layer and Plant Species (by common/scientific name)	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b>TREES:</b>				
Red Maple ( <i>Acer rubrum</i> )	25%	100%	Y	Fac*
<b>SHRUBS:</b>				
Multiflora Rose ( <i>Rosa mutliflora</i> )	50%	83%	Y	FacU
Tartarian Honeysuckle ( <i>Lonicera tatarica</i> )	10%	17%	N	FacU
<b>HERBS:</b>				
Jewelweed ( <i>Impatiens capensis</i> )	50%	100%	Y	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.

*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.*      MA DEP;3/95

<b>Vegetation conclusion:</b>	
<b>Number of dominant wetland indicator plants:</b> 2	<b>Number of dominant non-wetland indicator plants:</b> 1
<b>Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants?</b>	
Yes	No

## Section II. Indicators of Hydrology

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

### Hydric Soil Interpretation

#### 1. Soil Survey

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

title/date: Web Soil Survey

map number: 256A

soil type mapped: Deerfield Soil

hydric soil inclusions:

Are field observations consistent with soil survey? **Yes** No

Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
Ap	0–9"	10 YR 2/2	
Bw	9–20"	10 YR 4/4	

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? Yes **No**

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

Vegetation and Hydrology Conclusion		
	yes	no
Number of wetland indicator plants		
≥ number of non-wetland indicator plants	X	
Wetland hydrology present:		
Hydric soil present		X
Other indicators of hydrology present:		X
Sample location is in the BVW		X

Delineating Bordering Vegetated Wetlands

82



BOXBOROUGH

SITE

LITTLETON

NAGOG POND

WESTFORD

CARLISLE

CONCORD

STOW

MAYNARD

SUDBURY

LEGEND

- PRIVATE WAYS
- PRIVATE, UNACCEPTED ROADS APPROVED UNDER THE SUBDIVISION CONTROL LAW
- PUBLIC WAYS

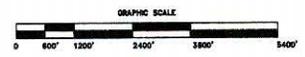
STATISTICS

TOWN OWNED ROADS	108.17 ML.
STATE OWNED ROADS	10.3 ML.
TOWN OWNED SIDEWALK	41.7 ML.
AREA OF TOWN	20.3 SQ. MI.

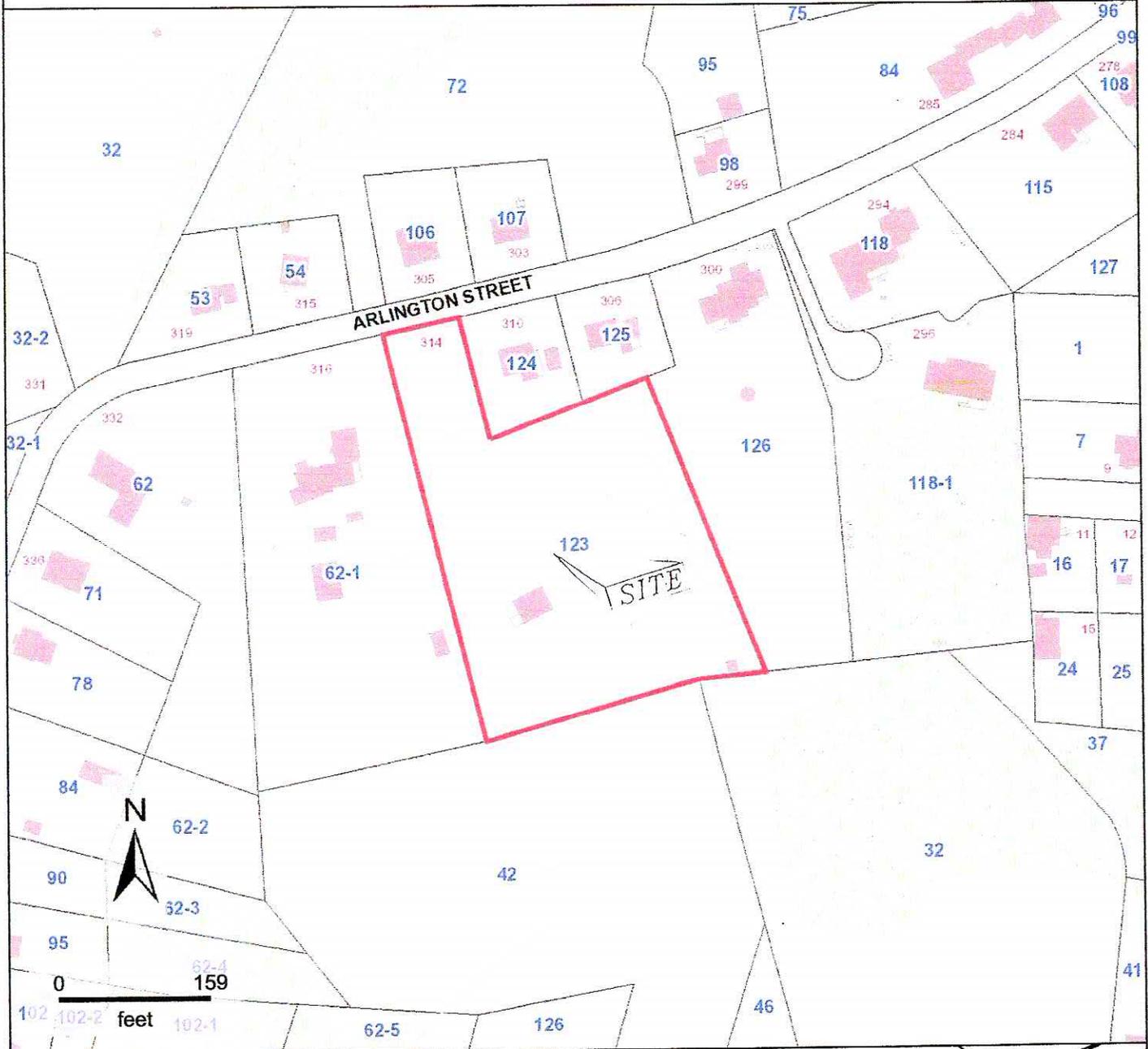
PARCEL MAP  
OF THE TOWN OF  
ACTON, MASSACHUSETTS

TOWN OF ACTON ENGINEERING DEPARTMENT  
SCALE 1" = 1200' JANUARY 1, 1997

STREETS AMENDED TO JANUARY 1, 2007



314 Arlington Street - Acton

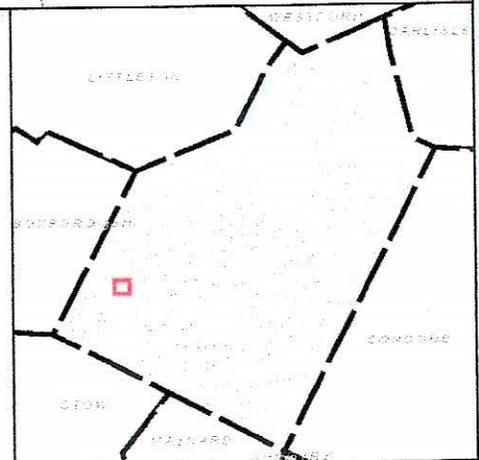


**Property Information**  
**Property ID** F2A-123  
**Location** 314 ARLINGTON ST



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

This data set/map is for planning purposes only and should not be used for larger scale analysis. The Town of Acton shall not be held liable for any use of the data or images shown on this map, nor is any warranty of accuracy expressed. All uses of this data set/map are subject to field verification.



# BOXBOROUGH



## BOXBOROUGH

EX	Codman Hill Rd ... E1	Interstate 495	Prescott Rd ..... D5	West Whitcomb Rd
	Colonial Ridge Dr	..... E1-C3	Priest La ..... E4	..... D2
	..... C6	Jenks Tr ..... D5	Reed Farm Rd ..... E6	Wetherbee La ..... D2
IGH	Commercial Row	..... D6	Richardson Rd ..... F5	Whitcomb Rd ..... D3
	..... E1	Kendall Rd ..... C6	Robinson Rd ..... F3	Whitney La ..... E3
	Common Dr ..... F4	Leonard Rd ..... E4	Rushwood Rd ..... E1	Windmere Dr ..... F5
	Cooldoe Farm Rd	Liberty Square Rd	Russell La ..... F6	Woodward La ..... E6

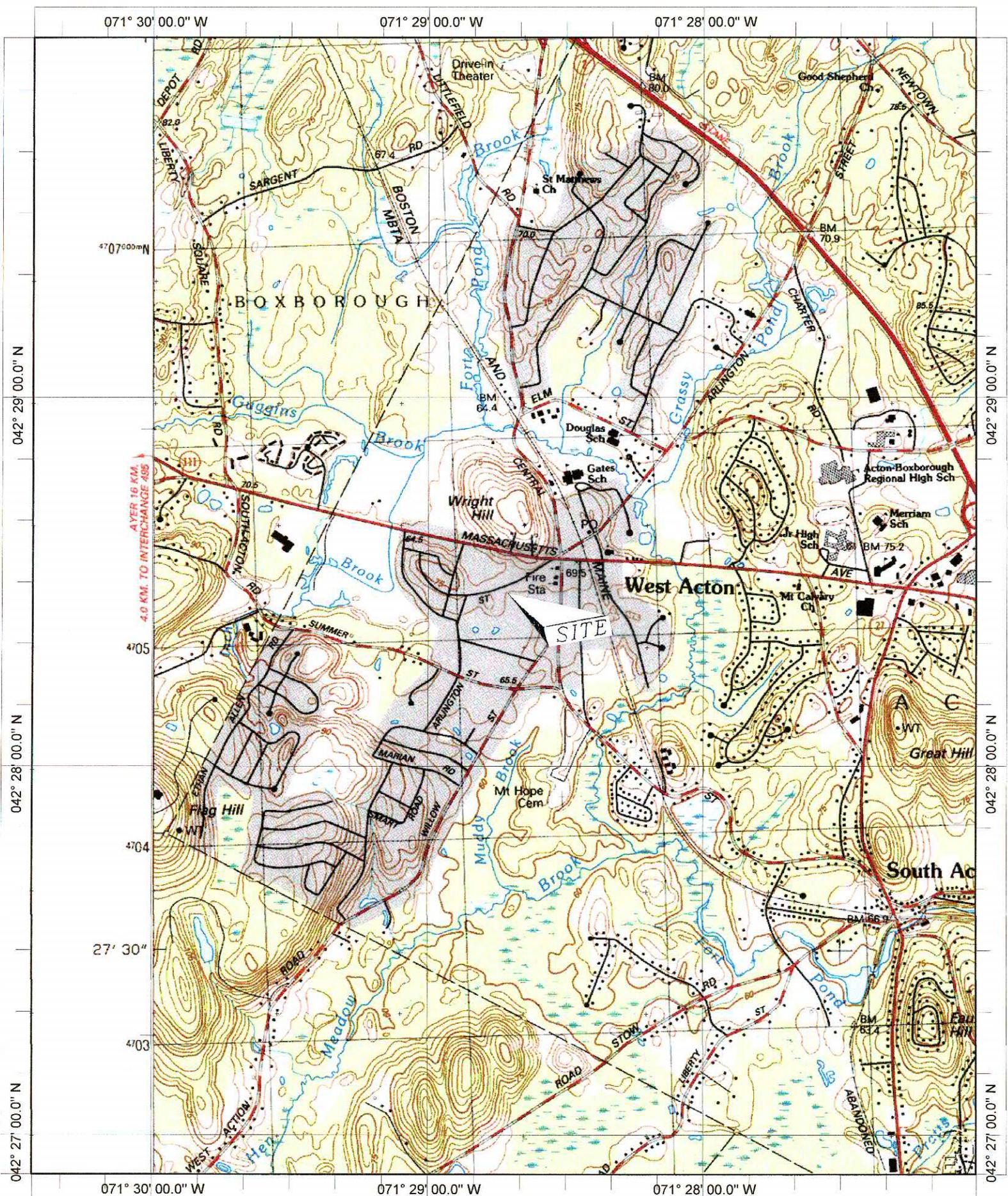
Points of Interest	
Atwood Conservation Land	..... D5
Beaver Business Park	..... C3
Blanchard Memorial Elementary School	..... E5
Cemetery	..... D3

Community Profile	
County	..... Middlesex
Area (Sq. Miles)	..... 10.4
Population	..... 4,868
Form of Gov't	..... Open Town Meeting
Area Codes	..... 978, 351

LITTLETON  
(Page 128)

STOW  
(Page 221)

SITE



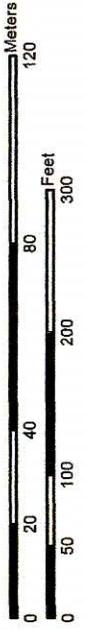
Name: MAYNARD  
 Date: 1/10/112  
 Scale: 1 inch equals 2005 feet

Location: 042° 28' 26.1" N 071° 28' 43.3" W  
 Caption: 314 Arlington Street  
 Acton

Soil Map—Middlesex County, Massachusetts  
(314 Arlington Street - Acton)



Map Scale: 1:1,600 if printed on A size (8.5" x 11") sheet.



### MAP LEGEND

<b>Area of Interest (AOI)</b>	 Area of Interest (AOI)	 Very Stony Spot
<b>Soils</b>	 Soil Map Units	 Wet Spot
<b>Special Point Features</b>	 Blowout	 Other
 Borrow Pit	 Clay Spot	<b>Special Line Features</b>
 Closed Depression	 Gravel Pit	 Gully
 Gravelly Spot	 Landfill	 Short Steep Slope
 Lava Flow	 Marsh or swamp	 Other
 Mine or Quarry	 Miscellaneous Water	<b>Political Features</b>
 Perennial Water	 Rock Outcrop	 Cities
 Saline Spot	 Sandy Spot	<b>Water Features</b>
 Severely Eroded Spot	 Sinkhole	 Streams and Canals
 Slide or Slip	 Sodic Spot	<b>Transportation</b>
 Spoil Area	 Stony Spot	 Rails
		 Interstate Highways
		 US Routes
		 Major Roads
		 Local Roads

### MAP INFORMATION

Map Scale: 1:1,600 if printed on A size (8.5" × 11") sheet.

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 accurate map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: UTM Zone 19N NAD83

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

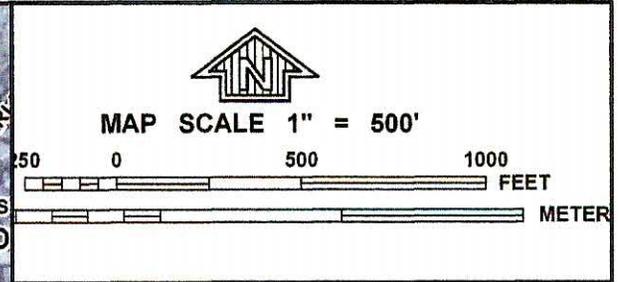
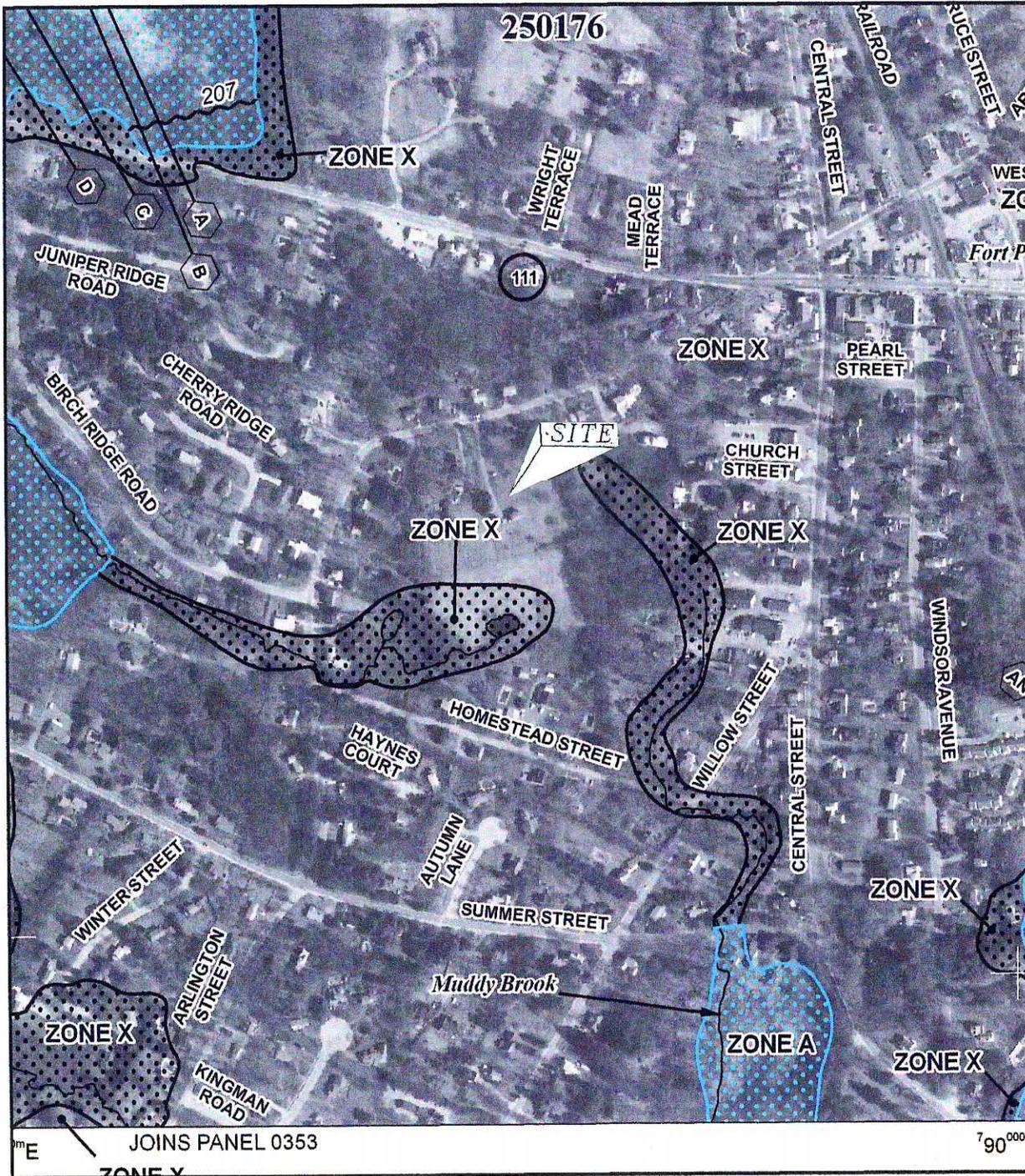
Soil Survey Area: Middlesex County, Massachusetts  
Survey Area Data: Version 12, Feb 26, 2010

Date(s) aerial images were photographed: 7/28/2003

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

Middlesex County, Massachusetts (MA017)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
71B	Ridgebury fine sandy loam, 3 to 8 percent slopes, extremely stony	0.4	3.8%
253B	Hinckley loamy sand, 3 to 8 percent slopes	4.3	41.2%
256A	Deerfield loamy sand, 0 to 3 percent slopes	4.8	45.8%
311B	Woodbridge fine sandy loam, 3 to 8 percent slopes, very stony	1.0	9.2%
<b>Totals for Area of Interest</b>		<b>10.5</b>	<b>100.0%</b>



NATIONAL FLOOD INSURANCE PROGRAM  
 NFIP

PANEL 0351E

**FIRM**  
 FLOOD INSURANCE RATE MAP  
 MIDDLESEX COUNTY,  
 MASSACHUSETTS  
 (ALL JURISDICTIONS)

PANEL 351 OF 656  
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ACTON, TOWN OF	250176	0351	E
BOXBOROUGH, TOWN OF	250184	0351	E

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER  
 25017C0351E

EFFECTIVE DATE  
 JUNE 4, 2010

Federal Emergency Management Agency

JOINS PANEL 0353

790 000m

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

Oliver OLIVER: MassGIS's Online Mapping Tool

314 Arlington Street 01720 ACTON

**Available Data Layers**

- USGS Surficial Geology Topographic Base Map Images
- State Facilities
- MassGIS Default Map
- Census 1990
- Census 2000
- Coastal and Marine Features
- Conservation / Recreation
- Areas of Critical Environmental Concern ACEC:
- Community Preservation Act
- Canoe Access Points
- Canoe Trips
- Natural Heritage Data
- BioMap2
- NHESP Ecoregions
- NHESP Certified Vernal Pools

**Active Data Layers**

Check all    Uncheck all    Remove all

- USGS Topographic Maps
- Potential Vernal Pools
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- NHESP Certified Vernal Pools
- MassGIS Default Map

**Legend**

- Potential Vernal Pools
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- NHESP Certified Vernal Pools
- MassGIS Default Map

0 m

Basemaps

oliver OLIVER: MassGIS's Online Mapping Tool

314 Arlington Street ACTON

PH 442

West Acton

SITE

Scale = 1:17,908  
203,015.45m 914,013.39m

0 m

Basemaps

#### Available Data Layers

Search data layers

- State Facilities
- MassGIS Default Map
- Census 1990

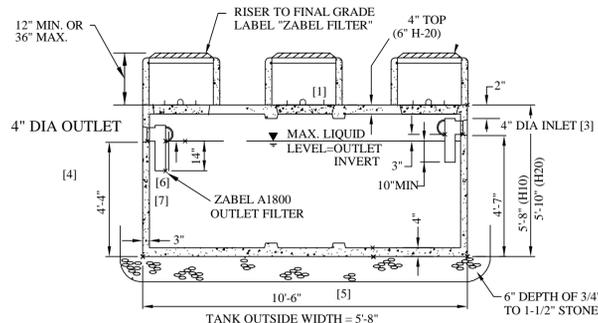
#### Active Data Layers

Check all Uncheck all Remove all

- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- NHESP Certified Vernal Pools
- USGS Topographic Maps
- MassGIS Default Map

#### Legend

- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife



- [1] PRECAST REINFORCED CONCRETE CONSTRUCTION, LOAD RATING: H10 ALL OPENINGS SEALED WATERTIGHT. AS MANUFACTURED BY E.F. SHEA OF WILMINGTON, MA., OR EQUAL.
- [2] MANHOLE RISER REQUIRED: YES IF YES, APPROX. DEPTH OF COVER OVER RISER RIM: 0 INCHES
- [3] IF SIDE INLET OF SEPTIC TANK IS USED, EXTEND INLET PIPE TO CENTER OF TANK.
- [4] WHERE UNDER OR ADJACENT TO AREA TO BE PAVED, COMPACT BACKFILL TO 95% PER ASTM D-1557.
- [5] UNDISTURBED SOIL OR SUBGRADE COMPACTED TO 95% PER ASTM D-1557.
- [6] OUTLET TEES SHALL BE EQUIPPED WITH A CORROSION-RESISTANT GAS DEFLECTOR.
- [7] INSTALL EFFLUENT FILTER: ZABEL A1800 OR EQUAL. BRING MANHOLE ABOVE FILTER TO GRADE AND LABEL IT ZABEL FILTER. FILTER SHOULD BE MAINTAINED YEARLY.

(2) 1,500 GALLON TANKS (310 CMR 15.223 - 15.227) TYPICAL CROSS SECTION NOT TO SCALE

1. SELECT SOIL FILL MATERIAL FOR SYSTEM CONSTRUCTION IN FILL MAY CONSIST OF SELECT ON-SITE SOIL, OR IMPORTED SOIL.
2. SELECT SOIL FILL MATERIAL SHALL BE COMPRISED OF CLEAN, GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MAXIMUM PARTICLE SIZE SHALL BE 2 INCHES.
3. A SIEVE ANALYSIS SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL. UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED ON A #4 SIEVE. A SIEVE ANALYSIS SHALL ALSO BE PERFORMED ON THE FRACTION OF THE FILL SAMPLE PASSING THE #4 SIEVE. SUCH ANALYSIS SHALL DEMONSTRATE THAT THE MATERIAL PASSING THE #4 SIEVE MEETS THE FOLLOWING GRADATION:

SIEVE #	EFFECTIVE PARTICLE SIZE	PERCENT PASSING
#4	4.75 MM	100
#50	0.30 MM	10 TO 100
#100	0.15 MM	0 TO 20
#200	0.075 MM	0 TO 5

SELECT SOIL FILL SPECIFICATION (310 CMR 15.255)

OCCUPANCY: 4 BEDROOMS  
 DAILY SEWAGE FLOW: 4 BEDROOMS X 110 GPD = 440 GPD  
 PERCOLATION RATE: 2 MINUTES PER INCH.  
 LEACHING REQUIREMENTS: 0.74 g.p.d./sq.ft. (class 1 soil)  
 LEACHING AREA REQUIRED BY TITLE 5  
 440 GPD / 0.74 = 595 SQ.FT.  
 LEACHING AREA PROVIDED: 2 TRENCHES 2' WIDE X 2' DEEP X 50' LONG  
 2 X (2' WIDE + (2 X 2' DEEP)) X 50' LONG = 600 SQUARE FEET  
 600 SQUARE FEET PROVIDED  
 SEPTIC TANK CAPACITY REQUIRED/PROVIDED = 2@1,500 GALLONS

FLOW AND AREA COMPUTATIONS

(310 CMR 15.242)

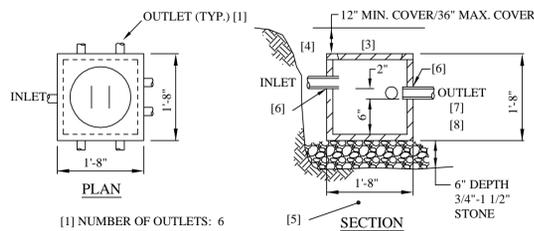
DATE: 8-17-11 (MONITORING WELLS 11-14-11)  
 SOIL EVALUATOR: JOHN BOARDMAN P.E.  
 WITNESS: JUSTIN SNAIR, ACTON BOARD OF HEALTH

811-6 (ELEV.=223.5, GW ELEV.=217.0)  
 0'-6" Ap SANDY LOAM  
 6'-12" Bw SANDY LOAM  
 12"-5' C1 SAND & GRAVEL  
 5'-10' C2 SAND  
 GROUNDWATER OBSERVED IN MW @ 6.5'  
 PERC F @ 46" - 2 MINUTES PER INCH

811-7 (ELEV.=222.5, GW ELEV.=216.5)  
 0'-6" Ap SANDY LOAM  
 6'-12" Bw SANDY LOAM  
 12"-4' C1 SAND & GRAVEL  
 4'-8" C2 SAND  
 GROUNDWATER OBSERVED IN MW @ 6'  
 PERC G @ 42" - 2 MINUTES PER INCH

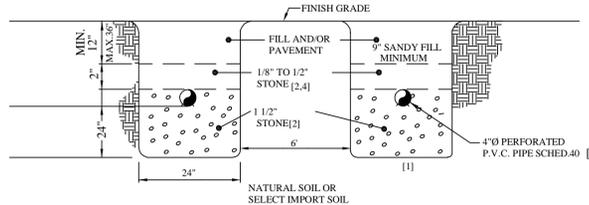
SOIL TESTING DATA

ELEVATION BENCH MARKS		
DATUM: SEE NOTE 1		
NO.	DESCRIPTION	ELEV.
1	SQUARE CUT SET IN LEDGE OUTCROP	225.24
2	HYDRANT BOLT OVER MAIN OUT	226.91
3	TOP OF 5/8" IRON ROD	226.16



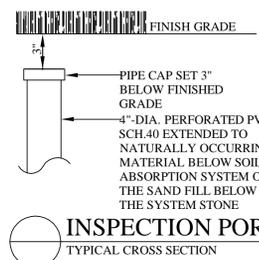
- [1] NUMBER OF OUTLETS: 6
- [2] LOAD RATING: H10
- [3] RISER REQUIRED: YES
- [4] WHERE UNDER OR ADJACENT AREA TO BE PAVED, COMPACT BACKFILL TO 95% PER ASTM D-1557
- [5] UNDISTURBED SOIL OR SUBGRADE COMPACTED TO 95% PER ASTM D-1557
- [6] ALL OPENINGS SEALED WATERTIGHT.
- [7] ALL OUTLET PIPE INVERTS AT SAME ELEVATION, LAID LEVEL FOR 2 FEET DOWNSTREAM FROM DISTRIBUTION BOX.

6-OUTLET DISTRIBUTION BOX (310 CMR 15.232) NOT TO SCALE

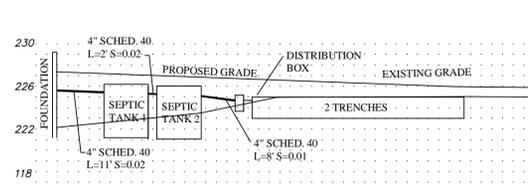


- [1] ENTIRE BOTTOM OF SOIL ABSORPTION AREA SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES JUST PRIOR TO PLACEMENT OF STONE.
- [2] ALL STONE SHALL BE DOUBLE WASHED & FREE OF FINES
- [3] ENDS OF DISTRIBUTION PIPE SHALL BE CAPPED UNLESS SYSTEM IS VENTED.
- [4] PER 310 CMR 15.247(2) GEOTEXTILE FABRIC MAY BE SUBSTITUTED FOR THE MINIMUM 2-INCH LAYER OF DOUBLE WASHED STONE.

SOIL ABSORPTION AREA TRENCHES (310 CMR 15.240-15.253) TYPICAL CROSS SECTION



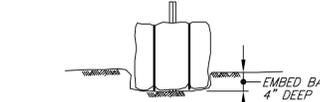
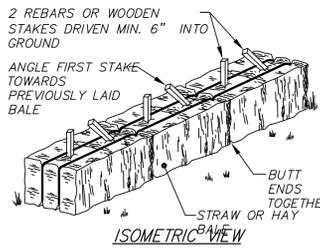
INSPECTION PORT TYPICAL CROSS SECTION



SCHEDULE OF ELEVATIONS:

LOCATION	PROPOSED
INVERT AT HOUSE	226.29
SEPTIC TANK 1 IN	226.07
SEPTIC TANK 1 OUT	225.82
SEPTIC TANK 2 IN	225.80
SEPTIC TANK 2 OUT	225.55
D-BOX IN	225.47
D-BOX OUT	225.30
TRENCH INV. IN	225.25
TRENCH INV. END	225.00
TOP TRENCH	225.75
BOTTOM TRENCH	223.00
GROUNDWATER OFFSET	6'

SYSTEM PROFILE 1"=20' HORIZONTAL; 1"=8' VERTICAL



HAY BALE BARRIER NOT TO SCALE

J. MICHAEL MURPHY  
 PROPERTY ID: F2A-126  
 PLAN RECORDED WITH DEED BOOK 8074, PAGE 434

TOWN OF ACTON NOTES

- 11-7.1 A Schedule 40 PVC building sewer requires an approved sleeve where the pipe transits through the building foundation.
- 11-7.2 All residential septic tanks, cesspools, or other structures shall have their contents pumped out a minimum of once every two years by a septic hauler licensed by the Town of Acton.
- 16-6.2.1 No underground fuel storage tanks shall be permitted on the site.
- 16-6.2.3 The site shall fully conform to the Town of Acton Hazardous Materials Control Bylaw.
- 16-6.2.8 Floor drains are not permitted.

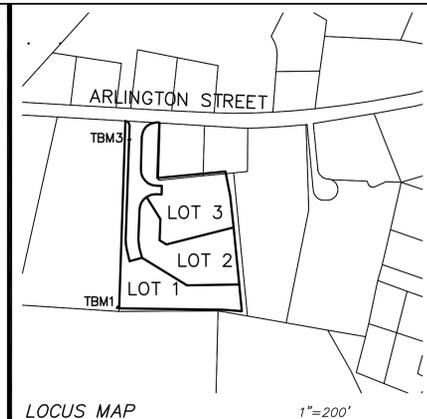
CONSTRUCTION SEQUENCE

1. Installation of erosion control measures.
2. Clear and grub as needed, all stockpiles to be located outside the 100' buffer zone.
3. Excavate and install foundation.
4. Install utilities, septic system and rough grade site
5. Final grading, loam and seed.
6. Install raingarden.

LEGEND

	PROPOSED CONTOUR
	EXISTING CONTOUR

SCALE: 1" = 20'



SITE ADDRESS  
**Lot 3 Duggan Farm**  
 314 Arlington Street  
 Acton, Massachusetts

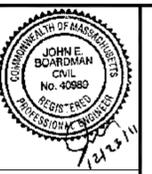
PREPARED FOR  
**Comfort Homes Inc.**

RESIDENCE 2  
 GROUNDWATER PROTECTION DISTRICTS 3 & 4  
 AFFORDABLE HOUSING OVERLAY DISTRICT, SUB-DISTRICT B  
 2100 Lakeview Avenue  
 Dracut, Massachusetts 01826

**HANCOCK ASSOCIATES**

Civil Engineers  
 Land Surveyors  
 Environmental Consultants

315 Elm Street, Marlborough, MA 01752  
 Voice (508) 460-1111, Fax (508) 460-1121  
 www.hancockassociates.com



NO.	BY	APP.	DATE	ISSUE/REVISION	DESCRIPTION

DATE: 12/23/11 DRAWN BY: JB  
 SCALE: 1" = 20' CHECK BY: JP

SUBSURFACE SEWAGE DISPOSAL

PLOT DATE: Dec 23, 2011 8:10 am  
 PATH: G:\Land Projects\8216431\mg\definitive  
 DWG: 16431def 9 alternate layout.dwg  
 LAYOUT: lot 3 septic  
 SHEET: 1 OF 1  
 PROJECT NO.: 16431