

WPA Form 3 – Notice of Intent

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

MassDEP File Number

Document Transaction Number

City/Town

A. General Information (continued)

6. General Project Description:

Tear down existing wooden boardwalk, remove old lumber into dump truck parked on site. Rebuild new boardwalk with concrete footings using traditional, pressure treated lumber. Cut down dangerous dying red maple tree adjacent to boardwalk.

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

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

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

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

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR 10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Middlesex

a. County

13361

c. Book

b. Certificate # (if registered land)

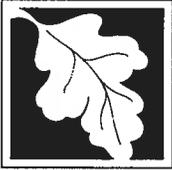
0526

d. Page Number

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

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

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



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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 checked="" type="checkbox"/> Bordering Vegetated Wetland	1. square feet _____	2. square feet _____
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet _____ 3. cubic yards dredged _____	2. square feet _____

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

2. Width of Riverfront Area (check one):

25 ft. - Designated Densely Developed Areas only

100 ft. - New agricultural projects only

200 ft. - All other projects

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

4. Proposed alteration of the Riverfront Area:

a. total square feet _____

b. square feet within 100 ft. _____

c. square feet between 100 ft. and 200 ft. _____

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

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

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

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



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

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

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

<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. 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 BWV

b. square feet of Salt Marsh

5. Project Involves Stream Crossings

a. number of new stream crossings

b. number of replacement stream crossings



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C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

- 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

Oct. 2008
b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.1.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

- Percentage/acreage of property to be altered:

(a) within wetland Resource Area _____
percentage/acreage

(b) outside Resource Area _____
percentage/acreage

- Assessor's Map or right-of-way plan of site

- Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

(a) Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

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



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

(c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/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
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694
Email: DMF.EnvReview-South@state.ma.us

North Shore - Hull to New Hampshire border:

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

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



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

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

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

D. Additional Information

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

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

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

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



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D. Additional Information (cont'd)

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

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

Culvert Design

a. Plan Title

Acton Engineering Department

Paul S. Campbell

b. Prepared By

c. Signed and Stamped by

3/21/2016

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:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name



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

Provided by MassDEP:

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F. Signatures and Submittal Requirements

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

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

✓		3/23/14
	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.



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

Brian McMullen
 Assessor

Locus:
 Parcel ID: 2 Taylor Rd
 F3A-76

Parcel ID	Location	Owner	Co-Owner	Mailing Address	City
F3A-36	430 MAIN ST	KIERNAN SARAH STUART	KIERNAN SCOTT	430 MAIN ST	ACTON, MA 01720
F4-28	47 WOOD LN	TOWN OF ACTON		472 MAIN STREET	ACTON, MA 01720
F3A-64-1	426 MAIN ST	ROHAN MARTHA J		1824 MAIN STREET	CONCORD, MA 01742
F3A-65	427 MAIN ST	PICARDI JOSEPH E		427 MAIN ST	ACTON, MA 01720
F3A-66	431 MAIN ST	GEITHNER FLORANCE Y TRUSTEE	SALLY LYNCH BOND	431 MAIN ST	ACTON, MA 01720
F3A-67	433 MAIN ST	WHITE JOHN B	REGAN MARY BETH	433 MAIN ST	ACTON, MA 01720
F3A-78-1	3 TAYLOR RD	SULLIVAN MARK G	ROBINSON ALYSSA N	3 TAYLOR RD	ACTON, MA 01720
F3A-78-3	7 TAYLOR RD	KONRAD MYKOLA	KONRAD RENATA	7 TAYLOR RD	ACTON, MA 01720
F3A-78-4	9 TAYLOR RD	CURRAN PAUL J	CURRAN PAMELA J	9 TAYLOR RD	ACTON, MA 01720
F3A-78	419 MAIN ST	PARKER ELIZABETH	SMIESZNY GERALD	419 MAIN ST	ACTON, MA 01720
F3-53	15 TAYLOR RD	WAINSHAL RON	WAINSHAL SHARI	6 WINDY HILL RD	WESTPORT, CT 06880
F3-57-1	11 TAYLOR RD	BEAUREGARD LOUIS A TRUSTEE	BEAUREGARD ANNE-MARIE TRUSTEE	11 TAYLOR RD	ACTON, MA 01720
F3-57	415 MAIN ST	JUDITH O MACDONALD TRUSTEE OF THE	C/O ONOS EMMANUEL O	415 MAIN ST	ACTON, MA 01720
F3-60	23 TAYLOR RD	HAUGSJAA PAUL ET UX TRUSTEES	HAUGSJAA FAMILY NOMINEE TRUST	23 TAYLOR RD	ACTON, MA 01720
F3-68	26 TAYLOR RD	BRONZYA ROMEN	SOLUK RENEE	26 TAYLOR RD	ACTON, MA 01720
F3-73	30 TAYLOR RD	MILLER NICHOLAS P TRUSTEE	MILLER ANDREA S TRUSTEE	30 TAYLOR RD	ACTON, MA 01720
F3-76	42 TAYLOR RD	DONALD MARY M TRUSTEE		42 TAYLOR RD	ACTON, MA 01720
F3-78-1	33 MINOT AVE	TOWN OF ACTON		472 MAIN ST	ACTON, MA 01720
F3-78	46 TAYLOR RD	DONALD JAMES C	MARY M	PO BOX 2823	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.

Mary Abbott
 Assessor's office

2/26/2016

**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: Town of Acton, Natural Resources Department

Address: 472 Main St.

Phone: 978-929-6634

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: Tom Tidman

Address: 472 Main St.

Phone: 978-929-6634

The address of the property where the activity is proposed: 2 Taylor Road, Acton Arboretum

Town Atlas Plate/Map: F3A

Parcel/Lot: 76

Project Description: Tear down existing wooden boardwalk, removing old lumber to dump truck parked on site. Rebuild new boardwalk with concrete footings using traditional, pressure treated lumber. Cut down dangerous dying red maple tree adjacent to boardwalk.

For more information please contact the Conservation Office at 978-929-6634 or email NR@acton-ma.gov. 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.

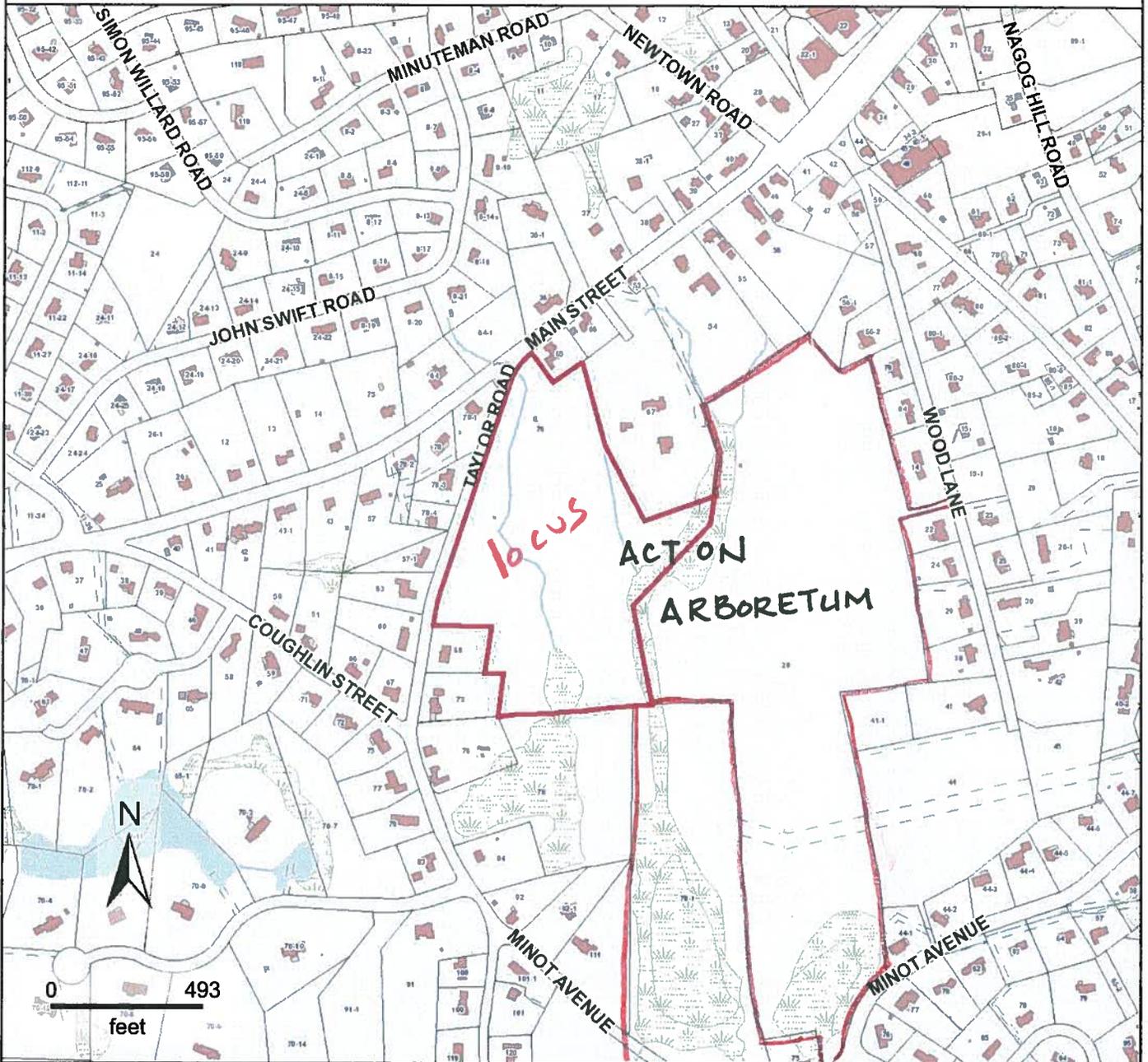
A Public Hearing will be held at the Acton Town Hall, 472 Main Street,
on Wednesday, April 6, 2016 at 7:45 P.M.
(date)

The notice of the 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 may also contact your local conservation commission or the nearest Department of Environmental Protection Regional Office* for the information about this application or the Wetlands Protection Act. Acton is in the Central Region. To contact DEP, call:

***DEP Central Region: 508-792-7650
8 New Bond St, Worcester MA 01608**

2 Taylor Road

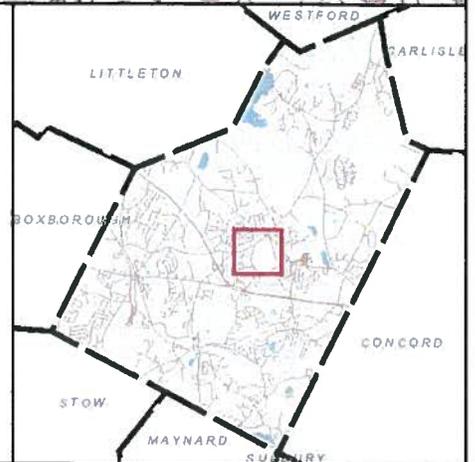


Property Information
Property ID F3A-76
Location 2 TAYLOR RD



**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.



Notice of Intent

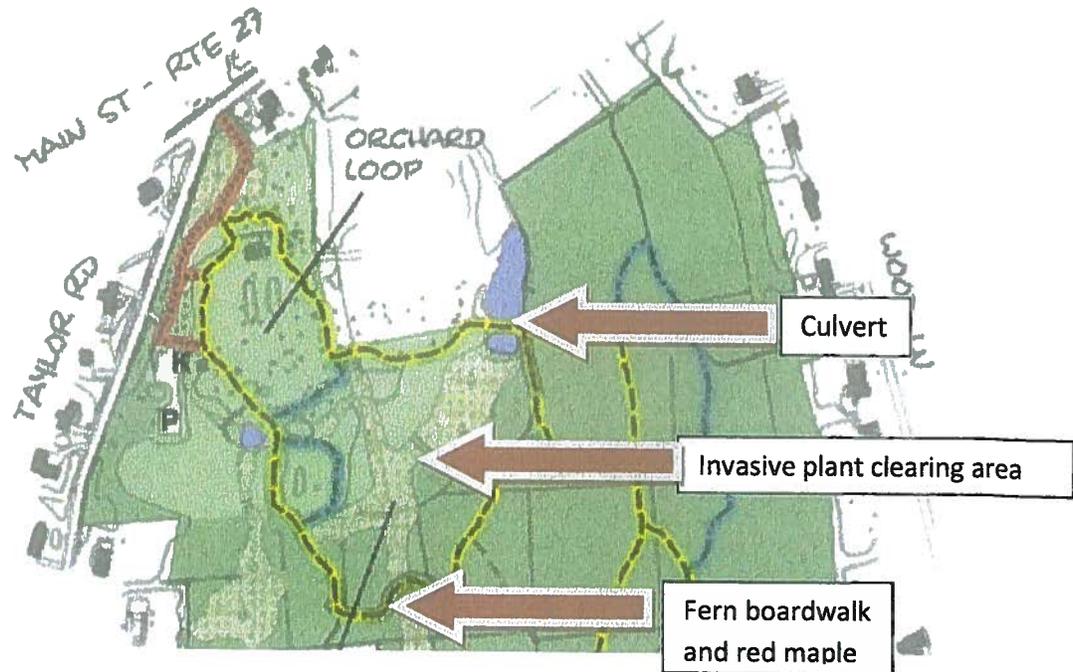
Acton Arboretum Fern Boardwalk Replacement, Concrete Culvert Replacement, Invasive Plant Removal

Project Narrative

This project has three components:

1. Demolish and replace fern boardwalk and remove a dying red maple
2. Remove and replace concrete culvert between twin ponds
3. Remove invasive honeysuckle and multi-flora rose

ACTON ARBORETUM



Description of process:

1. Fern boardwalk replacement

The current 20 year old fern boardwalk has rotted and is declining. Professional carpenters will rebuild it.



Volunteers will disassemble the boardwalk by standing on the boardwalk to take it apart, and passing the lumber pieces back to other volunteers in a line, who will put the old lumber into a waiting Natural Resources dump truck. Volunteers will stand in space previously occupied by the boardwalk, not on the sides; and will make reasonable best efforts not to step on the ferns, woody plants and wildflowers growing alongside the trail. The brook that flows under the bridge has many large rocks in it. The bank width is at maximum 36" wide and 6" deep.

When the new boardwalk is reconstructed, carpenters will make reasonable best efforts not to disturb the plantings. The new boardwalk will be built similarly as the wildflower boardwalk was rebuilt in 2013. Concrete footings will be replaced as needed. Sauno tubes will be used to contain the concrete. No sediment will be allowed to flow into the stream.

The dying maple tree will be felled by tree truck with bucket and left in place to decay naturally. The cut up tree will not lie in the stream bed.

2. Concrete culvert between twin ponds - removal and replacement.

A cofferdam (temporary enclosure made of sandbags) will be built across the upper northern pond, isolating and containing the water to that pond. This will allow the enclosed area to drain from the culvert area to the pond below, creating a dry work environment for the major work to proceed.

Lower Pond-
Arboretum property



Upper pond – Private

Photos of intact portion of upper pond culvert:



Photos of crumbling portion of lower pond culvert:



3. Invasive species removal

The area between the fern boardwalk and the twin ponds has a drainage ditch flowing through it. The area is representative of what the formal Arboretum area looked like prior to development in the late 1980s. There are a few old apple trees and most of the groundcover consists of grasses, forbs, poison ivy (*Rhus radicans*), gray dogwood (*Cornus racemosa*), and multiflora rose (*Rosa multiflora*) and Japanese Morrow Honeysuckle (*Lonicera morrowii*). The wet areas contain a number of pole size American elms (*Ulmus Americana*); unfortunately several of which have contracted Dutch elm disease (*Ceratosystis ulmii*). Several decrepit, overgrown weeping willows (*Salix sp*) are located near the small farm ponds. Red maple (*Acer rubrum*), some mature Eastern white pine (*Pinus strobus*) and many black walnut also abound. The understory is 90% honeysuckle and multiflora rose. Volunteers would cut the honeysuckle and multiflora rose at their base. Volunteers will either dig out the roots; or a town staff member who is a state certified applicator will paint the stumps with herbicide. Brush will either decay in place or volunteers will hand carry to brush/burn pile. Native seeds and shrub species will be planted in place of these non-native invasive shrubs.

**NOTICE OF INTENT
BOARDWALK CONSTRUCTION DETAIL**

TOWN OF ACTON NATURAL RESOURCES

Materials

Pressure treated pine lumber; galvanized hardware including Simpson Strong-Tie post bases, joist hangers, nails and screws. Sauno tube and secrete concrete.

