

Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands

Provided by MassDEP:

 MassDEP File Number

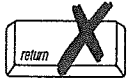
 Document Transaction Number
 Boxford

 City/Town

WPA Form 3 – Notice of Intent

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.



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):

73 - 76 Woodcrest Road Boxford 01921
 a. Street Address b. City/Town c. Zip Code

Latitude and Longitude: _____
 d. Latitude e. Longitude

Road right-of-way _____
 f. Assessors Map/Plat Number g. Parcel /Lot Number

2. Applicant:

John Dold
 a. First Name b. Last Name

Boxford Dept. of Public Works
 c. Organization

7B Spofford Road
 d. Street Address

Boxford MA 01921
 e. City/Town f. State g. Zip Code

978-352-6555 978-352-5558 Jdold@town.boxford.ma.us
 h. Phone Number i. Fax Number j. Email Address

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

 a. First Name b. Last Name

 c. Organization

 d. Street Address

 e. City/Town f. State g. Zip Code

 h. Phone Number i. Fax Number j. Email address

4. Representative (if any):

Robert Prokop
 a. First Name b. Last Name

Wetland Consulting Services
 c. Company

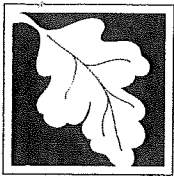
15 Bisson Lane
 d. Street Address

Merrimac MA 01860
 e. City/Town f. State g. Zip Code

978-346-9857 978-346-7479 Wcsbobp@aol.com
 h. Phone Number i. Fax Number j. Email address

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

\$0.00 (Municipal Project) \$0.00 \$0.00
 a. Total Fee Paid b. State Fee Paid c. City/Town Fee Paid



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

Boxford

City/Town

A. General Information (continued)

6. General Project Description:

Replace an existing corroded 18" x 45' long cmp with a new 18" HDPE plastic pipe, remove a concrete headwall and stabilize slope with riprap, and dredge 6" to 10" of accumulated sediment in a BVW (total area = 62 s.f.) at the inlet and outlet of the pipe.

7a. Project Type Checklist:

- | | |
|---|---|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Limited Project Driveway Crossing | 4. <input type="checkbox"/> Commercial/Industrial |
| 5. <input type="checkbox"/> Dock/Pier | 6. <input type="checkbox"/> Utilities |
| 7. <input type="checkbox"/> Coastal Engineering Structure | 8. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) |
| 9. <input type="checkbox"/> Transportation | 10. <input checked="" type="checkbox"/> 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 No If yes, describe which limited project applies to this project:

2. Limited Project

8. Property recorded at the Registry of Deeds for:

a. County	Road right -of-way
b. Certificate # (if registered land)	
c. Book	d. Page Number

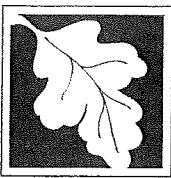
B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 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.

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	62 sf (dredge) 1. square feet	none 2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet



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

Boxford

City/Town

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

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

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

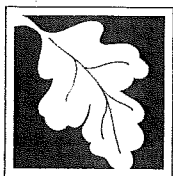
6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

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

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 _____



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

Boxford

City/Town

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 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

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

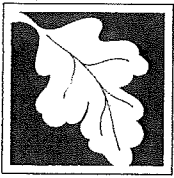
1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://www.mass.gov/dfwele/dfw/nhesp/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
100 Hartwell Street, Suite 230
West Boylston, MA 01583**

2014

b. Date of map



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

Boxford

City/Town

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).

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; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

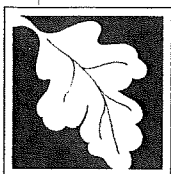
2. Separate MESA review ongoing.

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.



WPA Form 3 – Notice of Intent

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

MassDEP File Number

Document Transaction Number

Boxford

City/Town

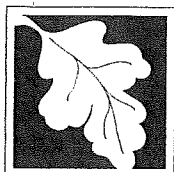
C. Other Applicable Standards and Requirements (cont'd)

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:
- Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 - A portion of the site constitutes redevelopment
 - Proprietary BMPs are included in the Stormwater Management System.
- b. No. Check why the project is exempt:
- 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

MassDEP File Number

Document Transaction Number

Boxford

City/Town

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.

Existing Conditions Plan in Boxford, MA

a. Plan Title

Donohoe Survey, inc.

Paul Donohoe

b. Prepared By

c. Signed and Stamped by

March 6, 2014

1" = 10'

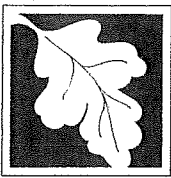
d. Final Revision Date

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.



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

Boxford

City/Town

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:

Municipal project no fee required

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

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.



Wetland Consulting Services

March 6, 2015

Boxford Conservation Commission
7A Spofford Road
Boxford, MA 01921

WCS Proj #: Boxford-26

RE: Waive local filing fee for NOI Application, Culvert Replacement, 73-76 Woodcrest Road, Boxford, MA

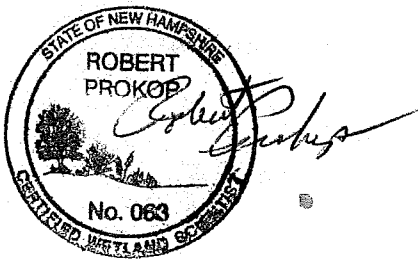
Dear Commissioners:

On behalf of the Boxford Department of Public Works (DPW), 7B Spofford Road, Boxford, MA, 01913, Wetland Consulting Services (WCS) is requesting a waiver of the local filing fee pursuant to the Boxford Wetlands By-law.

Since the proposed project is a municipal project, no State filing fee is required. Hopefully, you will agree to also waive the local fee.

If you have any questions or require any additional information, please feel free to contact me at 978-346-9857 or John Dold of the Boxford DPW at 978-352-6555.

Sincerely,
Wetland Consulting Services,



Robert Prokop
Wetland Scientist/Wildlife Biologist

15 Bisson Lane, Merrimac, MA 01860
978-346-9857 • 978-346-7479 (FAX)



Wetland Consulting Services

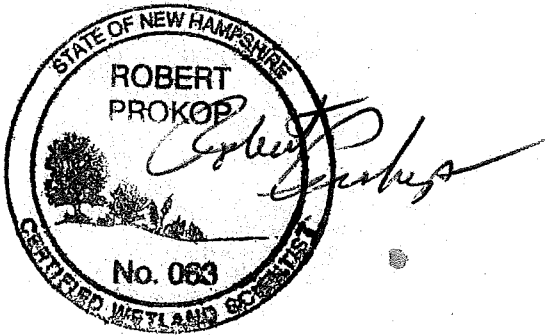
AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

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

A Notice of Intent (NOI) filed under the Massachusetts Wetlands Protection Act on behalf of the Boxford DPW with the Boxford Conservation Commission to replace the culvert located below 73-76 Woodcrest Road.

The list of the abutters and their addresses (as prepared by the Boxford Assessor's Office) and who will be notified, are attached to this Affidavit of Service.



Name

March 5, 2015

Date

*15 Bisson Lane, Merrimac, MA 01860
978-346-9857 • 978-346-7479 (FAX)*



Wetland Consulting Services

TOWN OF BOXFORD

ABUTTER LIST

PARCELS 20-10-9 and 20-9-21 ~ DPW CULVERT PROJECT ~ PREPARED FOR THE CONSERVATION COMMISSION 2

Map/Lot	Location	Owner	Owner 2	Owner Address	Owner City/Town	Owner State
(20-10-11)	60 WOODCREST RD	ABARE JAMES C TE	LONA S ABARE	60 WOODCREST RD	BOXFORD	MA
(20-11-4)	10 STAGECOACH RD	ANASTASI JOSEPH M	ANASTASI AMY	10 STAGECOACH RD	BOXFORD	MA
(20-11-6)	208 GEORGETOWN RD	CYMBALA DAVID J	CYMBALA HELEN M	208 GEORGETOWN RD	BOXFORD	MA
(20-9-20)	71 WOODCREST RD	DEAN SEAN M TE	DEAN CHRISTINE	71 WOODCREST RD	BOXFORD	MA
(20-10-9)	76 WOODCREST RD	DIFRANCO CHRISTOPHER	DIFRANCO FAITH	76 WOODCREST RD	BOXFORD	MA
(20-1-16)	142 KILLAM HILL RD	SMOOT MARY ANN		142 KILLAM HILL RD	BOXFORD	MA
(20-10-10)	64 WOODCREST RD	HILTON JOHN A TE	THERESA M HILTON	64 WOODCREST RD	BOXFORD	MA
(20-9-21)	73 WOODCREST RD	HOBBS JOHN R TE	VIVIAN J HOBBS	73 WOODCREST RD	BOXFORD	MA
(20-10-8)	201 GEORGETOWN RD	HOWARD JR WILLIAM H	SHIRLEY A HOWARD	201 GEORGETOWN RD	BOXFORD	MA
(20-11-3)	12 STAGECOACH RD	LAROCHELLE JILL M		12 STAGECOACH RD	BOXFORD	MA
(20-1-2)	233 GEORGETOWN RD	MAGSAYSAY MARGARITA D		233 GEORGETOWN RD	BOXFORD	MA
(25-5-14)	24 POND ST	MASS ELECTRIC CO	PROPERTY TAX DEPT	40 SYLVAN RD	WALTHAM	MA
(20-9-23.1)	215 GEORGETOWN RD	MCGOUGH PAUL S	MCGOUGH KATHLEEN A	215 GEORGETOWN RD	BOXFORD	MA
(20-9-19)	67 WOODCREST RD	MCMANUS STEVEN M	MCMANUS DEBRA J	67 WOODCREST RD	BOXFORD	MA
(20-11-2)	20 STAGECOACH RD	QUINLAN JAMES J	QUINLAN ANN C	20 STAGECOACH RD	BOXFORD	MA
(20-9-22)	79 WOODCREST RD	SWEENEY ROBERTA V		79 WOODCREST RD	BOXFORD	MA
(20-11-5)	4 STAGECOACH RD	WHELAN ANN M TE	WHELAN ROBERT M	4 STAGECOACH RD	BOXFORD	MA

CERTIFIED COPY

February 19, 2015

**15 Bisson Lane, Merrimac, MA 01860
978-346-9857 • 978-346-7479 (FAX)**



Wetland Consulting Services

March 5, 2015

Boxford Conservation Commission
7A Spofford Road
Boxford, MA 01921

WCS Proj #: Boxford-26

RE: NOI Application, Culvert Replacement, 73-76 Woodcrest Road, Boxford, MA

Dear Commissioners:

On behalf of the Boxford Department of Public Works (DPW), 7B Spofford Road, Boxford, MA, 01913, Wetland Consulting Services (WCS) is filing this Notice of Intent (NOI) under the Massachusetts Wetlands Protection Act and the Boxford Wetlands By-law to replace a road culvert between 73 and 76 Woodcrest Road in Boxford, MA (see Photo A).

The project involves replacing an existing corroded, partially clogged, 18" dia x 45' long cmp with a new 18" dia high density polyethylene (HDPE) plastic pipe of the same length. A total of approximately 62 s.f. of BVW at the inlet and outlet of the culvert would be dredge to remove accumulated sediment and debris. Finally the existing concrete headwall (see Photos B and C) along the outlet side would be removed and the remaining slope riprapped.

In addition to this report, the attached document contains the following items:

- a) WPA Form 3 NOI
- b) 1" = 10' scale plan of the project area prepared Donohoe and Parkhurst, Inc. of Topsfield MA
- c) Figure 1 U.S.G.S locus map
- d) Photos A through F of the project area
- e) Request to waive local filing fee requirement
- f) Certified abutter's list
- g) Affidavit of Service

Wetlands (BVW) located on either side of the culvert were delineated on November 25, 2014. The delineation was subsequently reviewed and accepted by Ross Povenmire, Boxford Conservation Director. The criteria¹ used to identify the limits of the wetlands corresponds with the procedures used to delineate a Bordering Vegetated Wetlands (BVW) resource area pursuant to 310 CMR 10.55 (2). In addition to vegetation, soils and hydrologic indicators were used to

¹Delineating Bordering Vegetated Wetlands under the Massachusetts Wetlands Protection Act: a Handbook. March 1995. Produced by the Mass. DEP, Div of Wetlands and Waterways.

aid in the delineation of the vegetated wetlands. The following alpha-numeric series were used to identify the limits of the delineated wetland:

A1 through A8 (outlet side)
B1 through B9 (inlet side)

The delineation effort was limited to a length of approximately 50 ft to 75 ft on either side of the road. The BVW on the outlet side of the road (delineated with the A series flags) is a seasonally flooded/saturated, palustrine, broad-leaved deciduous forested wetland (PFO1B)². The wetland delineated with the B series flags (on the inlet side of the road) exists mostly as a saturated, palustrine, broad-leaved deciduous forested wetland (PFO1E) surrounding a small seasonally flooded/saturated, palustrine, organic, unconsolidated bottom wetland (PUB4E). The blocked culvert and accumulated sediment impounds water on this side of the road.

Proposed Project

The Boxford DPW would like to replace the existing 18" cnp with a new 18" HDPE pipe. As previously mentioned, a concrete headwall lies on the outlet (eastern) side of the road. This headwall would be removed. The headwall is now almost free standing (see Photos B and C). Over the years soil behind the culvert has eroded into the wetland and partially buried the culvert outlet (see Photo D). The current plan would remove the headwall and dredge 32 s.f. of accumulate sediment below the headwall during the culvert replacement effort. The steep slope above the culvert would then be riprapped with 10" to 18" stone.

The slope on the inlet (western) side of the road is currently riprapped (see Photo F). This riprap would be replaced once the new culvert is installed. Sediment and accumulated organic debris is now blocking the inlet to the existing culvert causing water to impound upslope of the culvert (see Photo E). A depth of 6" to 10" of sediment would be removed upslope of the culvert inlet to improve flow. This would require dredging 30 s.f. of BVW but most of this area remains unvegetated

Summarized below is the proposed construction sequence for the project:

Construction Sequence

- 1-Work to be conducted during mid to late Summer 2015. The road will be blocked off and traffic detoured during construction. Construction to take 2 to 4 days. The road will remain blocked to traffic during this effort.
- 2-Cut and remove existing guard rail and any woody vegetation within the project area.
- 3-Install erosion control (silt fence only) around the inlet and outlet of the culvert.

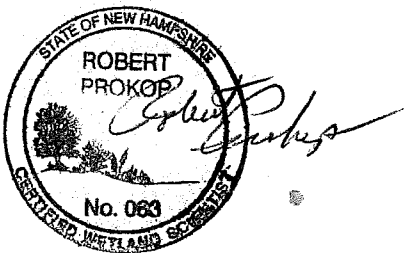
² Cowardin, L., V. Carter, F.C. Golet and E.T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Fish Wildl. Serv. FWS/OBS-79/31.

- 4-Knock down and remove concrete headwall on the outlet side of road.
- 5-Cut asphalt across section of road where culvert is to be replaced.
- 6-Remove cut asphalt and excavate road base material to expose and remove culvert. Soil to be temporarily stockpiled along edge of trench.
- 7-Dredge and remove accumulated sediment from wetland along both sides of the road.
- 8-Install new 18" HDPE culvert and backfill.
- 9-Place stone riprap along slope of new culvert.
- 10-Spread loam over any disturbed road slopes and seed with Conservation seed mix.
- 11-Install guard rail along both sides of road.
- 12-Repave disturb section of road.
- 13-When road slopes are stable, remove silt fence.

While some dredging would occur to the wetlands at the inlet and outlet of the culvert, the dredged areas would still exist as wetlands so no mitigation is proposed.

If you have any questions or require any additional information, please feel free to contact me at 978-346-9857 or John Dold of the Boxford DPW at 978-352-6555.

Sincerely,
Wetland Consulting Services,



Robert Prokop
Wetland Scientist/Wildlife Biologist

attach(s)

Woodcrest Rd Boxford USGS map



Figure 1. USGS locus map showing the location of the culvert replacements between 73 and 76 Woodcrest Road in Boxford, MA.



Photo A. Northerly view of Woodcrest Road where the existing culvert will be replaced. Photo by B. Prokop, November 25, 2014.



Photo B. View of the eastern side (outlet) of the Woodcrest Road culvert replacement showing the existing concrete headwall proposed for removal. Photo by B. Prokop, November 25, 2014.



Photo C. View of the headwall on the east side of Woodcrest Road as seen from the wetland. Photo by B. Prokop, November 25, 2014.



Photo D. View of the partially collapsed and clogged culvert below the headwall on the eastern side of Woodcrest Road. Photo by B. Prokop, November 25, 2014.



Photo E. View of the western side (inlet) of Woodcrest Road showing the impounded wetland (BVW) upslope of the culvert. Photo by B. Prokop, November 25, 2014.



Photo F. View of the western side (inlet) of the Woodcrest Road culvert replacement showing the existing riprap. Culvert proposed for replacement is buried in sediment at the bottom of the riprap and not visible. Photo by B. Prokop, November 25, 2014.