Applicant: 8A Andersen Drive Realty Trust 36 Winter Street Malden, MA

Project File: BOX-0205

# **Notice of Intent Application**

**Proposed Driveway** Andersen Drive, Lot 8A Boxford, Massachusetts

August 2020



603 Salem Street Wakefield, MA 01880 Tel: (781) 246-2800

Fax: (781) 246-7596

Nantucket, MA 02554 Tel: (508) 228-7909

# CONTENTS NOTICE OF INTENT ANDERSEN DRIVE, LOT 8A BOXFORD, MASSACHUSETTS

August 25, 2020

# LIST OF PLANS AND DOCUMENTS

Identifying Number / Letter	<u>Title / Date</u>
DOCUMENT A	WPA Form 3 – Notice of Intent and NOI Wetland Fee Transmittal Form for Proposed Driveway, Andersen Drive, Lot 8A, Boxford, with attachments: USGS Locus Map, and List of Abutters (July 30, 2020).
DOCUMENT B	Project Narrative, Proposed Driveway, Andersen Drive, Lot 8A, Boxford, MA; August 25, 2020, including:  > Site Photographs dated 2014 by Hayes Engineering, Inc.,  > Locus Map showing NHESP Estimated and Priority Habitat (MassGIS "Oliver" Online Mapping).  > Locus Map from Town of Boxford GIS.  > Order of Conditions for Andersen Drive issued by the Boxford Conservation Commission 5/5/14 (14 pages) and reduced scale plan set dated 4/8/14 referenced in Order (3 sheets 11" x 17").
DOCUMENT C	Erosion and Sedimentation Control, Andersen Drive, Lot 8A, Boxford, MA; August 25, 2020.
PLANS	Plan to Accompany Notice of Intent, Andersen Drive, Boxford, Mass.; Scale: 1"=40; Hayes Engineering, Inc., Date: August 10, 2020 (Sheet 1 of 3 –Overview).  Plan to Accompany Notice of Intent, Andersen Drive, Boxford, Mass.; Scale: 1"=20; Hayes Engineering, Inc., Date: August 10, 2020 (Sheets 2 of 3 and 3 of 3 - Topographic)

# T

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Boxford //Qity/Town

AND BOXERD WETLANDS PROTECTION BYL A. General Information

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.

Project Location (No	te: electronic filers will clic	k on button to locate pro	oject site):
Lot 8A Andersen Dri	ve (vicinity Cartwright Dr.)	Boxford	01921
a. Street Address		b. City/Town	c. Zip Code
Latituda and Langitu	do.	42d 41m 1s2 N	71d 03m 11s W
Latitude and Longitu	de:	d. Latitude	e. Longitude
17		1/16	
f. Assessors Map/Plat Nu	mber	g. Parcel /Lot Number	•
Applicant:			
a. First Name		b. Last Name	
8A Andersen Drive F	Realty Trust, Donald and C	arol Gianquitto, Trustee	es
c. Organization			
36 Winter Street			
d. Street Address			
Malden		MA	02148
e. City/Town		f. State	g. Zip Code
(781)953-2414		donaldgianquitto@gm	nail.com
h. Phone Number	i. Fax Number	j. Email Address	
c. Organization			
d. Street Address			
e. City/Town		f. State	g. Zip Code
h. Phone Number	i. Fax Number	j. Email address	
Representative (if ar	ny):		
a. First Name		b. Last Name	,
Hayes Engineering,	Inc.c/o Elizabeth Wallis an	d Gordon Rogerson	
c. Company			
603 Salem Street			
d. Street Address			
Wakefield		MA	01880
e. City/Town	una una cameran	f. State	g. Zip Code
(781)246-2800	(781)246-7596		m, grogerson@hayeseng.co
h. Phone Number	i. Fax Number	j. Email address	
Total WPA Fee Paid	(from NOI Wetland Fee T	ransmittal Form):	
\$110.00	\$42.50		37.50
a. Total Fee Paid	b. State Fe	ee Paid c	c. City/Town Fee Paid



Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

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

MassDEP Fil	le Number			
Document Tr	ansaction I	Νι	ımbı	er
Boxford				
City/Town				

# A. General Information (continued)

A. G	seneral Information (continued)				
6. G	eneral Project Description:				
st	he applicant proposes to constuct a gravel and pa ormwater management, and wetlands replication escribed in the attached project narrative.				
- F		_			A
7a. Pr	roject Type Checklist: (Limited Project Types see	Sec	ctio	n.	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				
R		).24 ed p	(cc roje	eci	
2.	Limited Project Type				
Ci	the proposed activity is eligible to be treated as an MR10.24(8), 310 CMR 10.53(4)), complete and at roject Checklist and Signed Certification.				
8. Pr	roperty recorded at the Registry of Deeds for:				
ā.	ssex South County 4355	16	1		ate # (if registered land)
	Book				lumber
B. B	Buffer Zone & Resource Area Impa	act	S	(te	emporary & permanent)
1.	Buffer Zone Only – Check if the project is located Vegetated Wetland, Inland Bank, or Coastal Re				
2. 🗵	<b>,</b> , , , , , , , , , , , , , , , , , ,				

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

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Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

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

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) 20+/-20+/a. 🔯 Bank 1. linear feet (in kind pipe replacement) .None - Disturbed soil to be b. 🔯 Bordering Vegetated 20+/- (anticipated temporary disturb for culvert/wall work) Wetland raked/seeded with wet mix. c. 🔲 Land Under 1, square feet 2. square feet Waterbodies and Waterways 3, cubic yards dredged Size of Proposed Alteration Proposed Replacement (if any) Resource Area d. 🗌 Bordering Land 1, square feet 2. square feet Subject to Flooding 3, cubic feet of flood storage lost 4. cubic feet replaced e. 🗌 Isolated Land Subject to Flooding 1. square feet 2. cubic feet of flood storage lost 3. cubic feet replaced f. 🔲 Riverfront Area 1. Name of Waterway (if available) - specify coastal or inland 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 Coastal Resource Areas: (See 310 CMR 10.25-10.35) Note: for coastal riverfront areas, please complete Section B.2.f. above.

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



Bureau of Resource Protection - Wetlands

# WPA Form 3 - Notice of Intent

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

Ì	Provided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	BOXIOIO

City/Town

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

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

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

4.

5.

	, -		
Resou	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. 🗌	Designated Port Areas	Indicate size under Land (	Inder the Ocean, below
b. 🗀	Land Under the Ocean	1. square feet	
		2. cubic yards dredged	
с. 🗀	Barrier Beach	Indicate size under Coastal	Beaches and/or Coastal Dunes below
d. 🔲	Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. 🗌	Coastal Dunes	1. square feet	2. cubic yards dune nourishment
		Size of Proposed Alteration	Proposed Replacement (if any)
f. 🔲	Coastal Banks	1. linear feet	
g. 🔲	Rocky Intertidal Shores	1. square feet	
h. 🔲	Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. 🔲	Land Under Salt Ponds	1. square feet	
_		2. cubic yards dredged	
j. 🗌	Land Containing Shellfish	1. square feet	
k. 🗀	Fish Runs		Banks, inland Bank, Land Under the Under Waterbodies and Waterways,
		1. cubic yards dredged	
I. 🗌	Land Subject to Coastal Storm Flowage	1. square feet	
If the p			and resource area in addition to the above, please enter the additional
a. squar	e feet of BVW	b. square fee	et of Salt Marsh
⊠ Pr	oject Involves Stream Cros	sings	
a. numb	er of new stream crossings	1 b. number of	replacement stream crossings



# Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

# WPA Form 3 - Notice of Intent

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

C. Other Applicable Standards and Requirements

Ma	sDEP File	Number
Do	ument Trai	nsaction Number
Во	xford	
0:1	/Town	

0	. Other Applicable	otanaaras ana reganements
		n Ecological Restoration Limited Project. Skip Section C and Ecological Restoration Limited Project Checklists – Required Actions
St	treamlined Massachuse	tts Endangered Species Act/Wetlands Protection Act Review
1.	the most recent Estimated Natural Heritage and Enda Massachusetts Natural He http://maps.massgis.state.	sed project located in Estimated Habitat of Rare Wildlife as indicated on Habitat Map of State-Listed Rare Wetland Wildlife published by the angered Species Program (NHESP)? To view habitat maps, see the critage Atlas or go to ma.us/PRI_EST_HAB/viewer.htm.  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
	CMR 10.18). To qualify for complete Section C.1.c, a	ubject to Massachusetts Endangered Species Act (MESA) review (321 r a streamlined, 30-day, MESA/Wetlands Protection Act review, please and include requested materials with this Notice of Intent (NOI); OR

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

	c. Submit	Supplemental information for Endangere	su opecies iteview
	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	fsite
2.	wetlands j	t plans for entire project site, including wurisdiction, showing existing and proposation clearing line, and clearly demarcat	
	(a) 🗌	Project description (including descripti buffer zone)	on of impacts outside of wetland resource area &
	(b)	Photographs representative of the site	•

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

<sup>\*\*</sup> 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.



3.

# Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

# WPA Form 3 - Notice of Intent

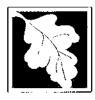
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

N	lassDEP File Number
D	ocument Transaction Number
E	Boxford
7	ity/Town

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

(c) MESA filing fee (fee information available at <a href="http://www.mass.gov/dfwele/dfw/nhesp/regulatory">http://www.mass.gov/dfwele/dfw/nhesp/regulatory</a> review/mesa/mesa fee schedule.htm). Make check payable to "Commonwealth of Massachusetts - NHESP" and <i>mail to NHESP</i> at above address				
Projects	altering 10 or more acres of land, also subn	nit:		
(d)	Vegetation cover type map of site			
(e)	Project plans showing Priority & Estimat	ted Habitat boundaries		
(f) OR	Check One of the Following			
1. 🗆	Project is exempt from MESA review. Attach applicant letter indicating which Matter://www.mass.gov/dfwele/dfw/nhesp/the NOI must still be sent to NHESP if the 310 CMR 10.37 and 10.59.)	regulatory review/mesa/	mesa exemptions.htm;	
2. 🗌	Separate MESA review ongoing.	a. NHESP Tracking #	b. Date submitted to NHESP	
3. 🗌	Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.			
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 North Shore - Hull to New Hampshire border: the Cape & Islands:				
Southeast M Attn: Enviror 836 South R New Bedford	larine Fisheries - larine Fisheries Station nmental Reviewer lodney French Blvd. ld, MA 02744 F.EnvReview-South@state.ma.us	Division of Marine Fisherie North Shore Office Attn: Environmental Review 30 Emerson Avenue Gloucester, MA 01930 Email: <u>DMF.EnvReview</u>	wer	

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.



Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

**Document Transaction Number** Boxford City/Town

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

	4.	Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
Online Users: nclude your locument		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.
ransaction		b. ACEC
number provided on your eceipt page)	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?
vith all upplementary		a. 🗌 Yes 🗵 No
iformation you ubmit to the Department,	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. Subject to the street of the street (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
		2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative

to the boundaries of each affected resource area.



# Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

# 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

D.	Additional	Information	(cont'd)
----	------------	-------------	----------

, ,	reional information (conta)	
3. 🗌		ource area boundary delineations (MassDEP BVW icability, Order of Resource Area Delineation, etc.), odology.
4. 🛛	List the titles and dates for all plans and ot	her materials submitted with this NOI.
	fer to the accompanying document "Contentes of submitted materials.	ts / List of Plans and Documents" for titles and
-	yes Engineering, Inc.	Peter J. Ogren. P.E., P.L.S.
the state of the state of	Prepared By	c. Signed and Stamped by
d. F	Final Revision Date	e. Scale
f. A	dditional Plan or Document Title	g. Date
5. 🗌	If there is more than one property owner, plisted on this form.	please attach a list of these property owners not
6.	Attach proof of mailing for Natural Heritage	e 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.	
Fees		
1. 🗌		ed for projects of any city, town, county, or district d Indian tribe housing authority, municipal housing sportation Authority.
Applica Fee Tra	ansmittal Form) to confirm fee payment:	n addition to pages 1 and 2 of the NOI Wetland
业	688 1 # 690	8/17/20
	ipal Check Number	3. Check date
	- 1087	8/17/20
	Check Number	5. Check date
C.	- as Royal Homes 11	C
6 Payor	name on check: First Name	7. Payor name on check: Last Name

E.



# Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

**Document Transaction Number** 

Boxford

City/Town

# F. Signatures and Submittal Requirements

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

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

3. Signature of Property Owner (if different)

different)

. Signature of Representative (if any)

4. Date

UC 8/27/20

#### 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

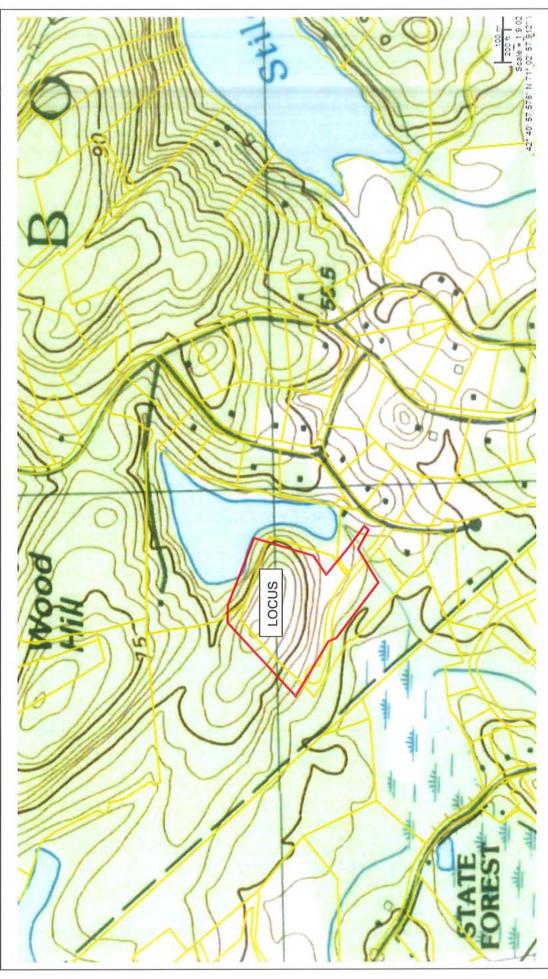
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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.

HAYES ENGINEERING, INC.
CIVIL ENGINEERING &
LAND SURVEYORS



603 SALEM STREET WAKEFIELD, MA 01880 (781) 246-2800



UNITED STATES GEOLOGICAL SURVEY MAP 25K MASSGIS QUADRANGLE (Map Source: MassGIS"Oliver" Online Mapping)

LOCUS MAP ANDERSEN DRIVE, LOT 8A BOXFORD, MASSACHUSETTS

z 🌪



Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key





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

AND EMPRIOR DUNKLIAN MERCUCLER A 100 ( BY CALSO)

# A. Applicant Information

1.	Location of Project:		
	Lot 8A Andersen Drive (vicinity Cartwright Dr.)  a. Street Address	Boxford b. City/Town	
	c. Check number	d. Fee amount	<u></u>
2.	Applicant Mailing Address:		
	a. First Name	b. Last Name	
	8A Andersen Drive Realty Trust, Donald and Card c. Organization	ol Gianquitto, Trustees	<u> </u>
	36 Winter Street d. Malling Address		
	Malden		02148
	e. City/Town	f. State	g. Zip Code
	(781)953-2414	donaldgianquitto@gmail.com	<u> </u>
	h. Phone Number i. Fax Number	j. Email Address	
3.	Property Owner (if different):		
	Same as applicant.		
	a. First Name	b. Last Name	
	c. Organization	<u> </u>	
	d. Mailing Address	<u></u>	
	e. City/Town	f. State	g. Zip Code
	h. Phone Number i. Fax Number	j. Email Address	

# B. Fees

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

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

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

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

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

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

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



# Wassachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands NOI Wetland Fee Transmittal Form

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

B. Fees (continued)			
Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Single Family House Driveway Category 1.a.)	. 1	\$110.00	\$110.00
<u> </u>	· · · · · · · · · · · · · · · · · · ·		
		rene management and the	
	· · ·	TE 1 - PEP MITTI FREE -	· · · · · · · · · · · · · · · · · · ·
		IF MYTALLIN.	
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	. <u></u>		
		<u>-</u>	<u> </u>
	Step 5/To	otal Project Fee:	\$110.00
	Step 6/	Fee Payments:	
	Total	Project Fee:	\$110.00 a. Total Fee from Step 5
	State share	of filing Fee:	\$42.50 b. 1/2 Total Fee less \$12.50
	City/Town share	e of filling Fee:	\$67.50 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.)

# NOTICE OF INTENT FEE CALCULATION WORKSHEET ANDERSEN DRIVE, LOT 8A BOXFORD, MASSACHUSETTS

August 25, 2020

## State NOI Fees:

<u>Activity</u>	Category	<u>Fee</u>
Driveway on Single Family Lot	1.a.	\$110.00
TOTAL FEE		\$ <u>110.00</u>

State Fee:(\$110 ÷ 2)-12.50 = **\$42.50** 

Town Fee:( $$110 \div 2$ ) +12.50 = \$67.50

## Boxford Local Bylaw Fee:

This project consists of activities located within Resource Areas regulated under the Town of Boxford Wetlands Bylaw. Fees for this project are calculated below using the fee table provided in Section G. of the Bylaw Regulations.

Activity	Number	Fee
Category 2 (a.) Site Work without a house	1	\$ <u>200.00</u>
(c.) Resource area crossing for Driveway– intermittent stream	1	\$ <u>400.00</u>
(h.) Wetland Resource Alteration	1	20 s.f BVW x \$0.50 per s.f. =\$10.00 (Temporary disturb for headwall work)
(i.) Bank Alteration	1	20 l.f. x \$0.50 per linear ft. =\$10.00 (Culvert replacement)
TOTAL FEE		\$620.00

S COLUMN STANDARD STA

HER COUNTRY STREET

## 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, Dikne Benott hereby certify under the pains and
penalties of perjury that on I gave 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: <u>Driveway Construction</u> .
A Notice of Intent filed under the Massachusetts Wetlands Protection Act by 8A Andersen Drive Realty Trust. with the Boxford Conservation Commission on for property located at Andersen Drive, Lot 8A, Boxford, MA, (Assessor Map 17, Block 01, Lot 16).
The form of the notification, and a list of the abutters to whom it was given and their
addresses are attached to this Affidavit of Service.
Name - Signature Date

TOWN OF BOXFORD

ABUTTER LIST
PARCEL #17-01-16 - 8A ANDERSEN DRIVE - CONSERVATION COMMISSION 250'

RCEL ID	PARCEL ADDRESS	OWNER 1	OWNER 2	MAILING ADDRESS	CITY/TOWN STATE ZIP COD	STATE	ZIP COD :
-01-14	408 MAIN ST	KACHEL CAROLE L		408 MAIN ST	BOXFORD	MA	01921
-01-15	35 ANDERSEN DR	- DOUGHERTY LARRY J TE	DOUGHERTY PATRICIA A	35 ANDERSEN DR	BOXFORD	Vivi	01921
-01-16	ANDERSEN DR	8A ANDERSEN DRIVE RUTY TRUST	GIANQUITTO CAROL & DONALD W TRS	236 SWAINS POND AVE	MELROSE	MA	02176
-01-17	41 ANDERSEN DR	GUERBY MICHAEL A JT	ELLEN SHUMSKY	41 ANDERSEN DR	BOXFORD	VM;	01921
-01-18	47 ANDERSEN DR	CHAPMAN GARY B TE	BARBARA I CHAPMAN	47 ANDERSEN DR	BOXFORD	MA	01921
01-10	IPSWICH RD	ELDRED F G & E L TR	NO ANDOVER BOXFORD ALT TR	1997 DALE ST	~	, MA	01845
-02-02	42 ANDERSEN DR	STOCKWELL JAMES E	STOCKELL DEBRA J	42 ANDERSEN DR	BOXFORD	MA	0192:
-02-03	40 ANDERSEN DR	DEUMONTI KARA MANN	MANN DAVID	140 ANDERSEN DR	BOXFORD	MΑ	0192.

JULY 30, 2026

8A Andersen Drive Realty Trust Carol & Donald W. Gianquitto, Trs. 236 Swains Pond Avenue Melrose, MA 02176

Gary B. & Barbara J. Chapman 47 Andersen Drive Boxford, MA 01921

Kara Mann Delmonti & David Mann 40 Andersen Drive Boxford, MA 01921 8A Andersen Drive Realty Trust Carol & Donald W. Gianquitto, Trs. 36 Winter Street Malden, MA 02148

No Andover Boxford Realty Trust F.G. & E.L. Eldred, Trs. 997 Dale Street North Andover, MA 01845

Carole L. Kachel 408 Main Street Boxford, MA 01921 Michael A. Guerin & Ellen Shumsky 41 Andersen Drive Boxford, MA 01921

James E. & Debra J. Stockwell 42 Andersen Drive Boxford, MA 01921

Larry J. & Patricia A. Dougherty 35 Andersen Drive Boxford, MA 01921

# PROJECT NARRATIVE PROPOSED DRIVEWAY ANDERSEN DRIVE, LOT 8A BOXFORD, MASSACHUSETTS

August 25, 2020

#### 1.0 Existing Conditions

The subject locus is a 15.22 acre vacant residential parcel known as Lot 8A located between developed properties at #35 and #41 Andersen Drive. This hilly, forested parcel contains a roadway easement known as Cartwright Lane and a woods pathway, the initial length of which was historically cleared, filled and developed into an existing 18'-20' wide dirt/gravel access path with two culvert crossings and existing power cable with electric box. Resource areas consisting of bordering vegetated wetlands (demarcated by flags #1-11 and #A2-A21) and inland bank protected under both the Massachusetts Wetlands Protection Act and The Town of Boxford Wetlands Protection Bylaw are present on the property in association with the intermittent stream known as Fish Book. Also present is the 100-foot buffer zone associated with these resource areas. Existing features are shown on the accompanying August 2020 Hayes Engineering, Inc. plan titled "Plan to Accompany Notice of Intent, 8A Andersen Drive, Boxford, MA" and the attached Hayes Engineering, Inc. Site Photographs dated December 2014.

#### 2.0 Proposed Work

The overall project is to develop the property to accommodate a single-family house with associated septic system, well, utilities, and driveway. This Notice of Intent focuses on the 447± Lf section of driveway entering from Andersen Drive which will be constructed within and adjacent to wetland and buffer areas regulated by the Conservation Commission. The remaining section of driveway, house, well, and septic system will be constructed within upland areas. No trees of significant size will be removed as part of this work, although some trimming of the existing canopy might be required. Saplings and fallen tree debris will be removed within the driveway layout. Further details of driveway construction activities are provided below.

#### Brief Project History

The driveway construction proposed under this Notice of Intent application was previously permitted by an Order of Conditions issued under DEP file #114-1178 by the Boxford Conservation Commission on May 5, 2014 (attached) and as shown on the Hayes Engineering, Inc. plan titled "Plan to Accompany Notice of Intent, Lot 8 A Anderson Road, Boxford Mass." revised through 4/8/14 (modified wetland flag locations). The 2014 Order of Conditions, issued pursuant to the Wetlands Protection Act and Boxford Wetlands Protection Bylaw, lapsed without any construction started and, as such, the Applicant desires to re-permit the previously approved project design so that construction may be accomplished. A "Certificate of Compliance" will be obtained from the Boxford Conservation Commission to close out the 2014 permit in preparation for this application.

#### **Driveway Overview**

The proposed 11-foot wide driveway will enter off of Andersen Drive along the existing Cartwright easement (woods road) and proceed into the property in an northwesterly direction along the existing woods road at relatively shallow slopes ranging from 2% to 7%) until curving northerly up the hill at approximately 10% slope to access to the proposed house and garage. The driveway will be graded to ensure proper drainage. The surface will consist a base course of compacted gravel, then have a final course of pavement at the entrance followed by sections of either gravel

or pavement material along its length dependent on steepness of slope. Stormwater management, drainage improvements, replication, and utility installation will occur as part of driveway construction. Further details relative to driveway construction are provided below.

#### Electric, Telephone, and Cable Utilities

The proposed house will be serviced by electric, telephone and cable utilities and also connect to a water well. Utility lines will run underground along the eastern side of the driveway from an electric box present at the Cartwright entrance to a point close to wetland flag #8, then transition overhead to four proposed utility poles, then transition back to underground near the proposed turnout to continue up the hill to the house. The existing power cable extending from the afore-mentioned electric box will be removed as part of the utility work. Activities associated with the utility work consists of excavating a trench to accommodate power cable removal and electric and cable conduit installation; backfilling; hole drilling for utility pole installation, and loaming and seeding. Proposed activities will occur within wetland and buffer zone areas. Wetland and 25-foot buffer zone disturbances will be mitigated by both reestablishing vegetation cover on the backfilled trench with wetland seed mix and through the construction of a wetland replacement area located on the west side of the driveway as further detailed below.

#### Stormwater Management

Best management practices (BMPs) for stormwater management will be included as part of the project to capture and treat runoff from the driveway. Proposed stormwater BMP components consist of five-foot wide grass swales to be constructed along each side of the driveway as well as the construction of two infiltration ponds (one 446 s.f. and the other 641 s.f.) with spillways and level spreaders on each side of the driveway in the vicinity of wetland flags #A7 to #A-8A and #A-15 to #A-16. Activities associated with stormwater management consist of vegetation removal, grading, basin structure construction, swale construction, loaming and seeding. Refer to attached document "Operation and Maintenance Plan, Lot 8A Andersen Drive, Boxford, MA". This work will occur within the 0-50-foot buffer zone.

#### Brook Culvert and Headwall Replacement

The existing 30" corrugated metal pipe culvert at the brook crossing is in a deteriorated condition and will be replaced with a metal pipe culvert of similar type and diameter to be installed within the same location and invert elevation to ensure proper water flow along the stream channel. Stone headwalls to be removed as part of culvert replacement will be reconstructed to match the location and extent of existing structures as closely as possible. Activities associated with culvert replacement include headwall stone removal (to be saved if practicable for later use), excavation as required for culvert removal, pipe installation, headwall reconstruction with saved stones, and backfilling as needed. Note that culvert replacement was added to the driveway project as a result of a site visit conducted in March 2014 by Conservation Director Ross Povenmire, Town Engineer John Dold, and Hayes Engineering, Inc. This work will occur within bordering vegetated wetlands and inland bank resource areas.

#### Erosion/sedimentation Control

One or more temporary runoff velocity and pollutant prevention BMP controls such as compost-type silt sock barriers (Filtrexx Silt Soxx or equivalent), swale check dams, catch basin sediment inserts, and crushed stone tracking pad (stabilized construction entrance) will be utilized during construction in conjunction with the attached document titled "Erosion and Sedimentation Control, Lot 8A Andersen Drive, Boxford, MA".

#### 3.0 Regulations

The proposed work will be performed within the jurisdiction of both the Massachusetts Wetlands Protection Act (M.G.L. Chapter 131, Sec. 40, 310 CMR 10.00 et. al.) and the Boxford Wetlands Protection Bylaw (General Bylaws Chapter 192 and Chapter 375) and is required to meet performance standards outlined in the associated regulations. A description of how the project meets the regulatory performance standards is provided below. Existing and proposed conditions are shown on the accompanying Plans.

#### Massachusetts Wetlands Protection Act (M.G. L. Ch 131, Sec. 40)

#### Buffer Zone

Portions of the 100-foot buffer zone will be altered as a result of driveway grading, paving, and culvert replacement, as described above. Temporary disturbances may also occur due to the need for an equipment and materials staging area and machine and personnel work space. A fence or silt sock erosion control barrier will be installed along the work area as shown on the Notice of Intent plan to protect adjacent buffer zone and resource areas and to provide a visible limit of work. Erosion and sedimentation control procedures will be implemented as outlined in the attached document titled "Erosion and Sedimentation Control".

#### Bordering Vegetated Wetlands

No permanent alteration to bordering vegetated wetlands (BVW) is proposed as part of this project. It is anticipated that culvert replacement work will be conducted from the driveway surface, however, small amounts of the BVW boundary along the ends of the culvert may temporarily be disturbed should personnel require direct access to that work area during headwall stone removal and reconstruction activities (10± s.f. on each side).

#### Boxford Wetland Protection Bylaw Regulations (Town of Boxford Ch. 192, Sec. 375)

#### §375-98 Buffer Zones

#### Construction Setbacks- §375-98 (B)(5).

Boxford Wetlands Protection Bylaw and associated regulations establish the 100-foot buffer zone as a resource area and more specifically require minimum setbacks for work within that resource area as shown in the Chart provided at §375-98 (B)(5). For this site, the driveway is required to be at least 30 feet and the house at least 75 feet from resource areas. Proposed driveway construction will necessitate culvert replacement within an existing bank and wetland resource area crossing. As such, portions of the project will result in bank resource area disturbance and encroach closer than 25 feet to the wetland boundary, therefore not complying with that performance standard. The Applicant requests the Conservation Commission to grant a waiver from the 30-foot regulatory setback requirement to allow driveway construction in consideration that the project proposes construction of 2,610 s.f. of wetland and stormwater treatment BMP's as mitigation. The house is outside of the 75-foot buffer zone.

### 25-foot No Disturb Zone - §375-98(D)

Portions of the driveway, infiltration basins, utility pole installation, grass swales, and mitigation wetland will be constructed within 25 feet of the bank resource area and so the project does not comply with the performance standard specified in Section 375-98(D). The Applicant requests the Conservation Commission to grant a waiver from this regulatory setback requirement in consideration that some of the features that are located with in the 25-foot No

Project Narrative, Andersen Drive, Lot 8A, Boxford, MA August 25, 2020

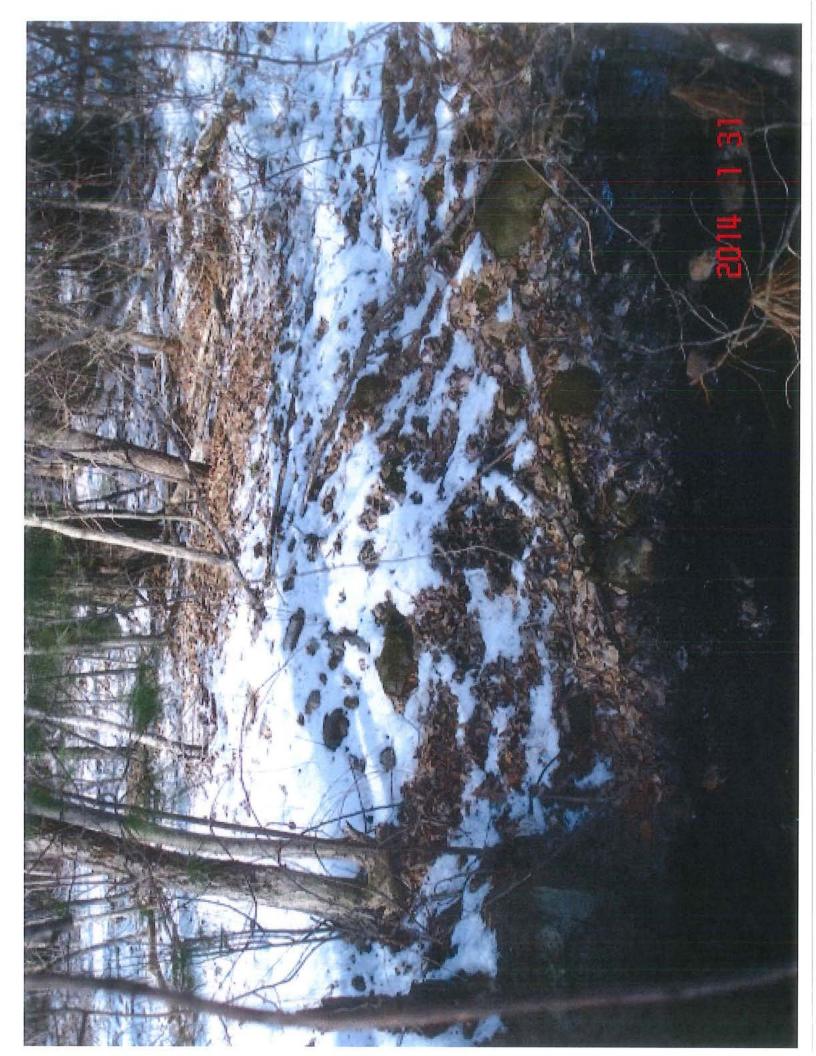
Disturbance Zone are provided as project mitigation (e.g. The new wetland area, grass swales, and ponds).

#### Other Permits

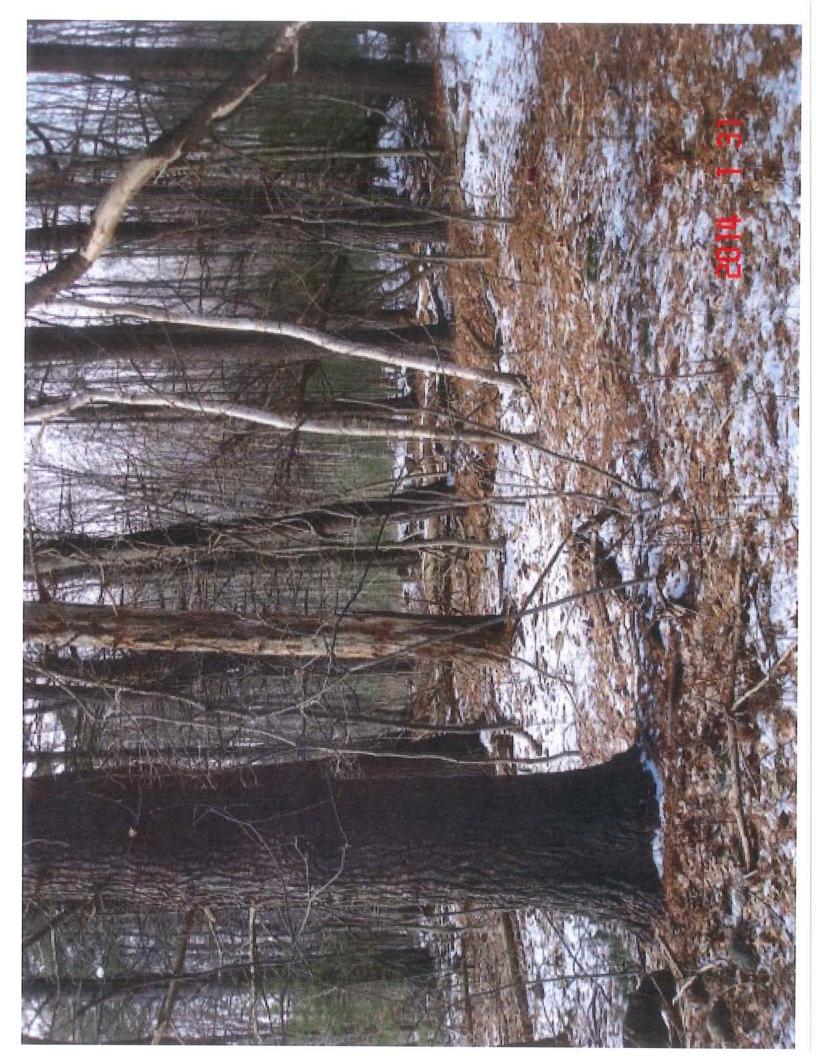
Other permits needed for the project will be Sanitary Disposal System and well permits from the Boxford Board of Health and Building Permit from the Boxford Building Department. These permits will be obtained prior to project construction.

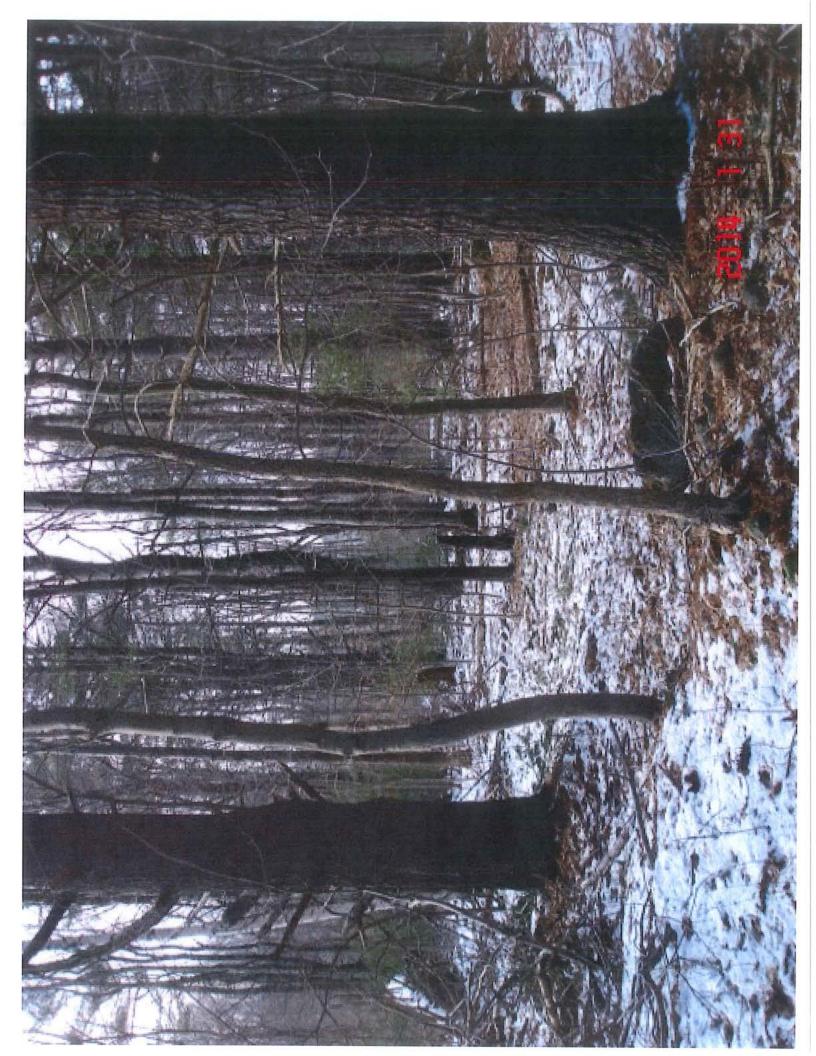
#### Natural Heritage Program

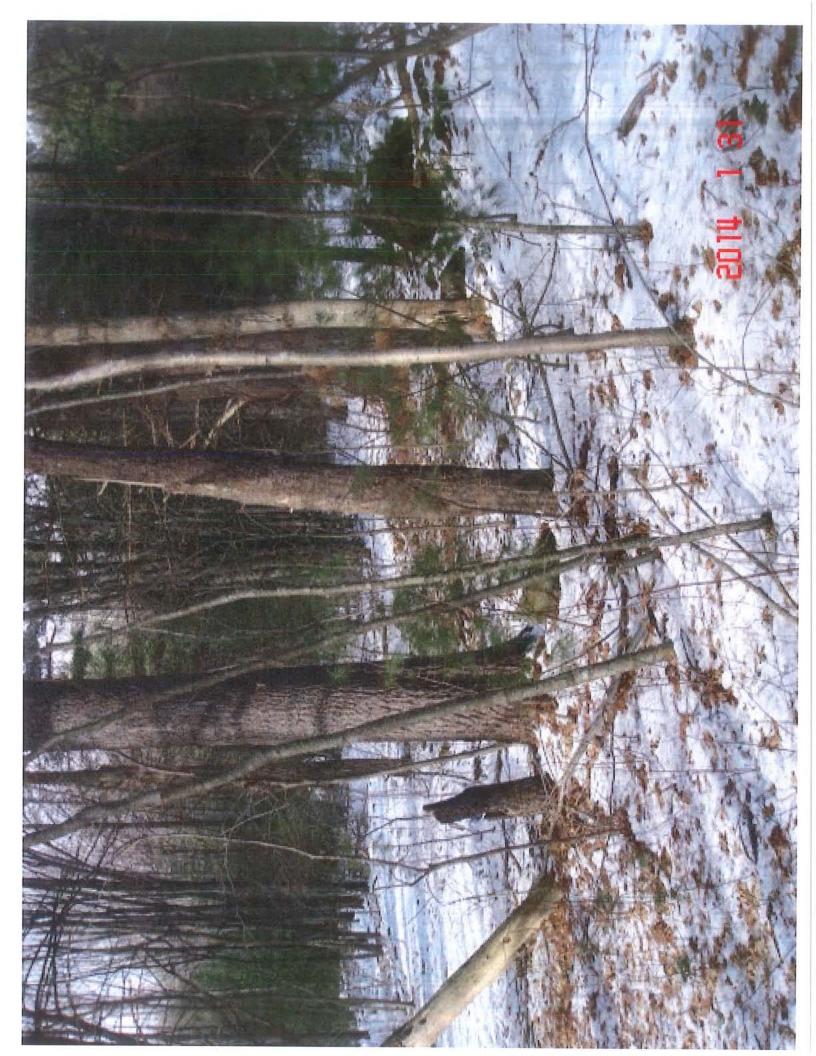
A review of the MassGIS online Natural Heritage Endangered Species Program mapping revealed that both Estimated Habitat and Priority Habitat of Endangered Species are present within the property, but do not encroach upon the proposed project activities as shown on the plan and the MassGIS Locus Map.

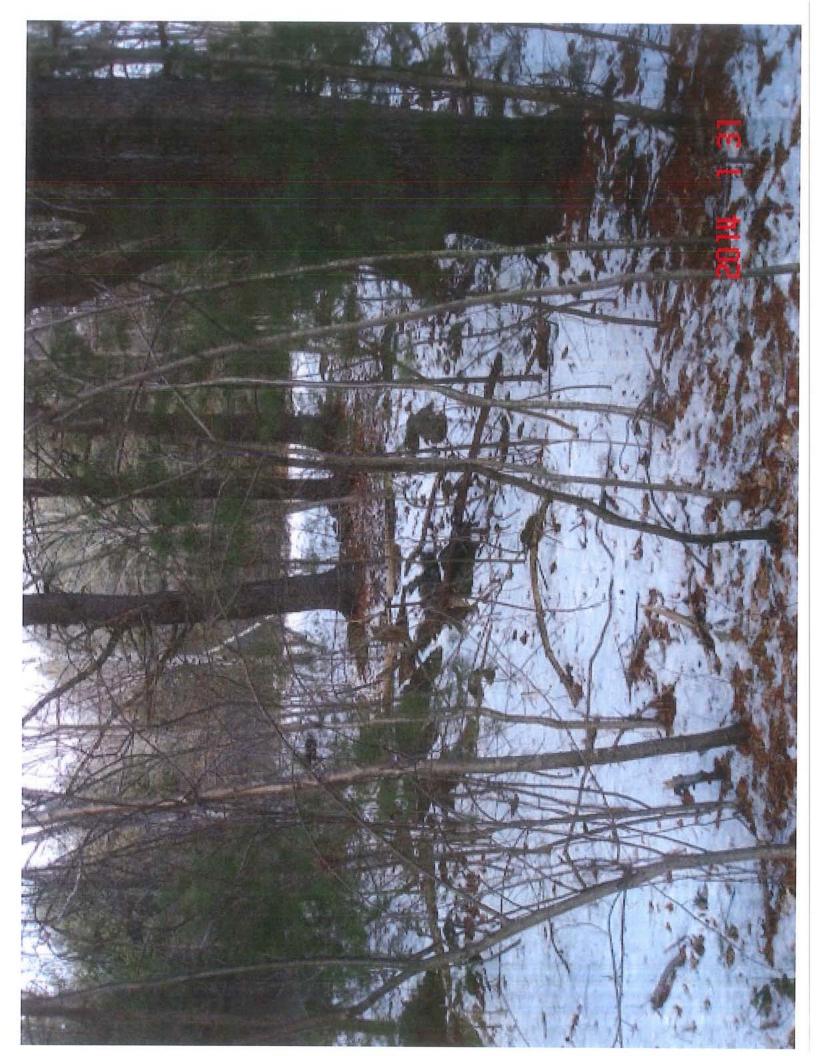


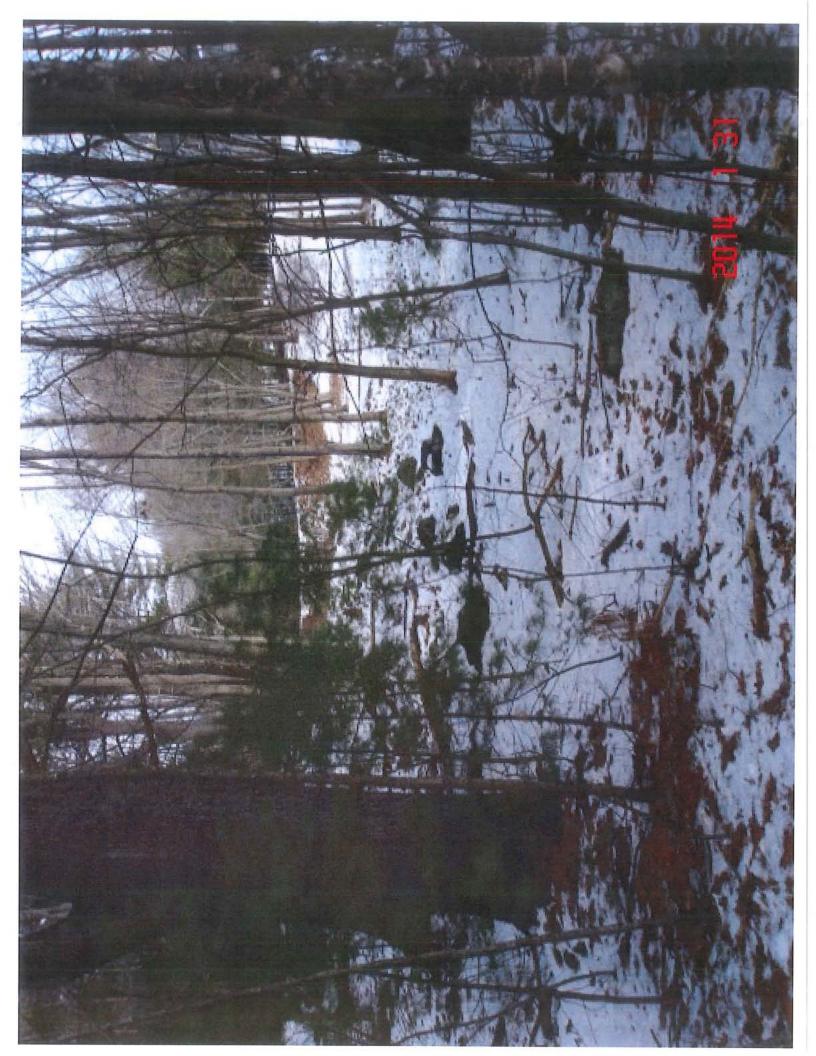


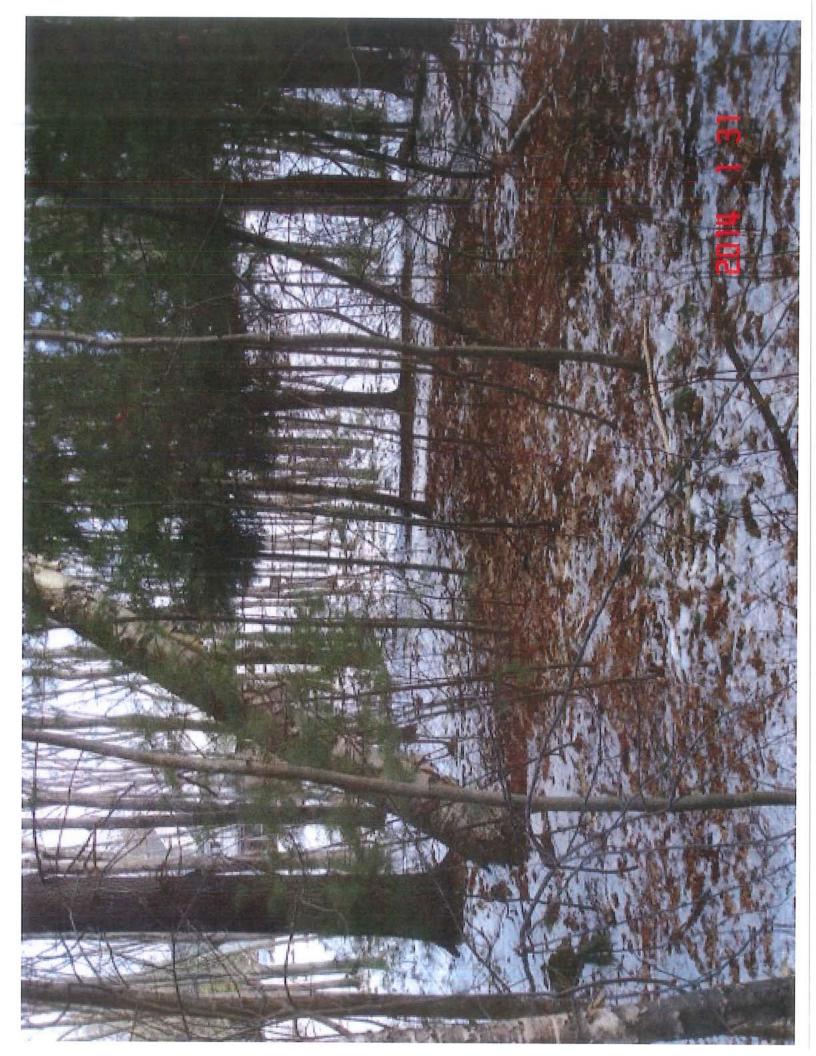


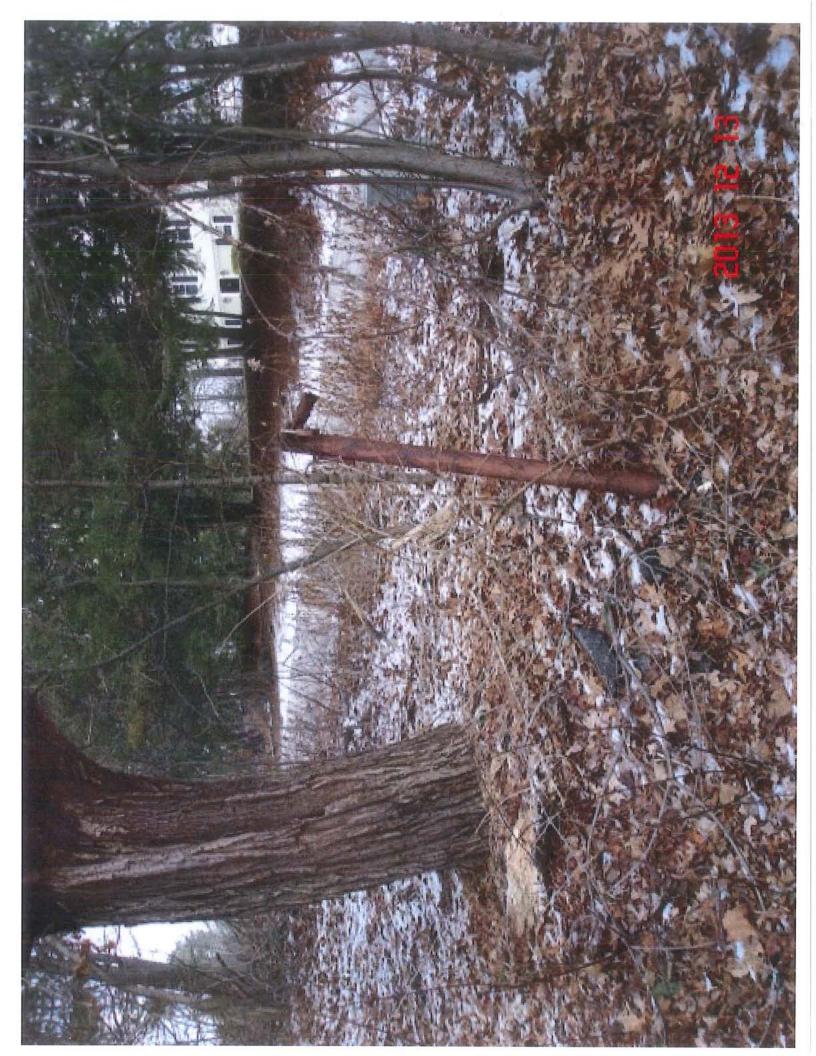








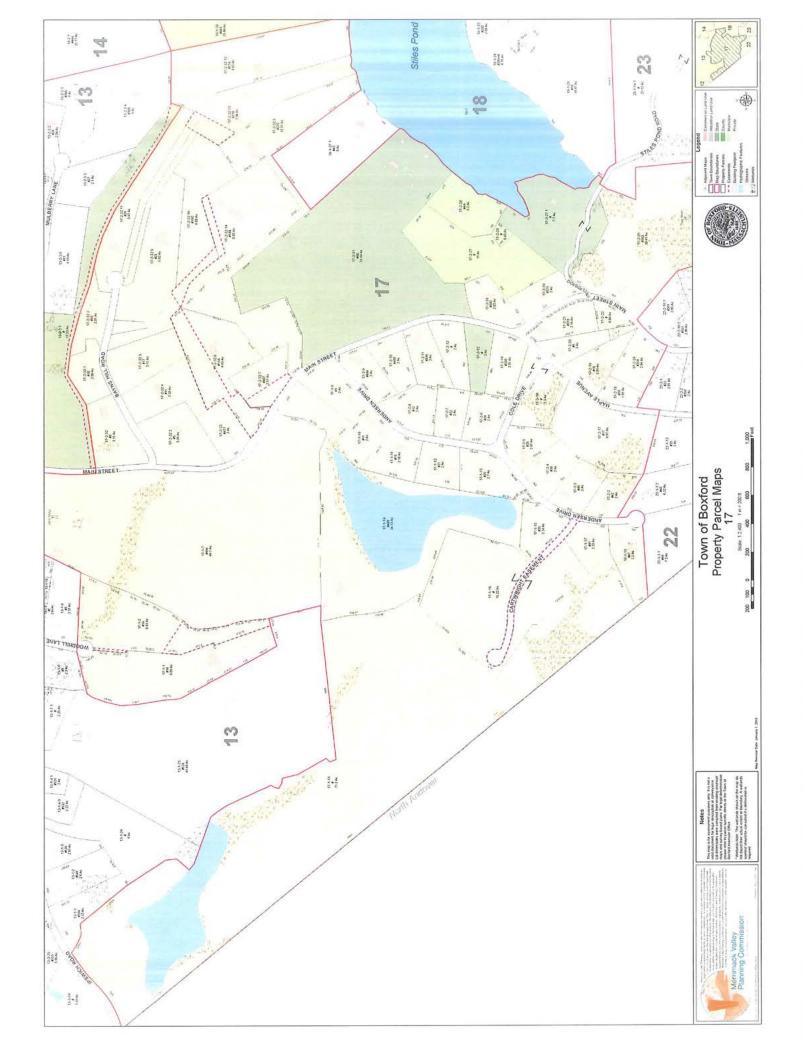




OLIVER 7/30/2020

Inver OLIVER: MassGIS's Online Mapping Tool OLIVER Updates





15 12. AK-4

2014103000118 Bk:33638 Pg:249



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

# WPA Form 5 – Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassUEP:	
MassDEP File #	_
114-1178	
eDEP Transaction #	
Boxford	
City/Town	

						City/Tow		
	A. Gen	eral Information						
Please note:	_	Boxford			·			
this form has been modified	1. From:	Conservation Commission						
with added space to accommodate	2. This issu (check o	uance is for one):	. 🖾 Order of Con	ditions b.	] Amende	d Order of	Conditio	ns
the Registry of Deeds	3. To: Ap	pplicant:						
Requirements	Bill			Gianquitto				
	a. First	Name		b. Last Name				
Important: When filling	Lot 8A	A Andersen Drive LLC				,		
out forms on	c. Orga	nization						
the	36 Wi	nter Street						
computer, use only the	d. Maili	ng Address				,	24040	
tab key to	Malde			MA f. State			)1248 j. Zip Code	
move your cursor - do	e. City/	Town		), State		٤	, zip code	
not use the return key.	4. Property	y Owner (if different from	applicant):					
Mes I	a. First	Name		b. Last Name	-			
(seath )	c. Orga	nization						
	d. Maili	ing Address			··	- 1	_	
	e. City/	Town	·	f. State		9	. Zip Code	
	5. Project	Location:						
	Ander	rsen Drive		Boxford				
		et Address		b. City/Town				
	<u> 17 _</u>			1/16	A)			
	c. Asse	essors Map/Plat Number	_1	d. Parcel/Lot		d	m	s
	Latitu	de and Longitude, if kno	wn: d Latitud		<u> </u>	d . Longitude	111	



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

# WPA Form 5 – Order of Conditions

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

Provided by MassDEP:
MassDEP File #
114-1178
eDEP Transaction #
Boxford
City/Town

Α.	General Information	n (	con	t.)			<del></del>			
6.	<ul> <li>Property recorded at the Registry of Deeds for (attach additional information if moone parcel):</li> <li>Essex</li> </ul>									
	a. County				b. Certificate Number (if registered land)					
	23980				45					
	c. Book			<b>-</b>	d. Page		~!~!~			
_	Dates: 12-31-2013				'-201 <u>4</u>	_	3/3/10/c1			
7.	Dates: a. Date Notice of Int				te Public Hearing Clo					
8.	Final Approved Plans and Other Documents (attach additional plan or document references as needed):									
	Plan to Accompany Notice of Intent Andersen Drive (3 sheets)									
	Hayes Engineering, Inc.				Peter J. Ogren,	ΡF	:			
	b. Prepared By				c. Signed and Stamped by					
	4-8-2014				1"=20'	•				
	d. Final Revision Date				e. Scale					
	f. Additional Plan or Document Titl	e					g. Date			
В.	Findings									
1.	Findings pursuant to the Ma	assa	chus	etts Wetla	inds Protection A	ct:				
	Following the review of the provided in this application the areas in which work is protection Act (the Act). Ch	and prope	pres osed	ented at the is significated	ne public hearing	, this	s Commission finds that terests of the Wetlands			
a.	☐ Public Water Supply	b.		Land Cor	ntaining Shellfish	¢.				
d.	☑ Private Water Supply	e.		Fisheries		f.	<ul><li>☐ Protection of Wildlife Habitat</li></ul>			
g.	☐ Groundwater Supply	ħ.	$\boxtimes$	Storm Da	mage Preventior	ì.	☐ Flood Control			
2.	This Commission hereby find	ds th	e pro	oject, as pr	oposed, is: (check	one	e of the following boxes)			
Аp	proved subject to:									
a.	the following conditions standards set forth in the w be performed in accordance General Conditions, and ar that the following conditions proposals submitted with the	etlar e wit ny ot s mo	nds r in the her s idify	egulations e Notice of special cor or differ fro	<ul> <li>This Commission</li> <li>Intent reference</li> <li>Inditions attached</li> <li>Intent reference</li> <li>Intent reference</li></ul>	on o d ab to the cific	rders that all work shall love, the following his Order. To the extent cations, or other			



# WPA Form 5 – Order of Conditions

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

Provided by MassDEP:
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0.0

a. linear feet

# B. Findings (cont.)

De	nied because:
b.	the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. A description of the performance standards which the proposed work cannot meet is attached to this Order.
c.	the information submitted by the applicant is not sufficient to describe the site, the work or the effect of the work on the interests identified in the Wetlands Protection Act.  Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).

disturbance and the wetland resource area specified in 310 CMR 10.02(1)(a) Inland Resource Area Impacts: Check all that apply below. (For Approvals Only)

3. 

Buffer Zone Impacts: Shortest distance between limit of project

Re	source Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4.	☐ Bank	a. linear feet	b. linear feet	c. linear feet	d. linear feet
5.	Bordering Vegetated Wetland	a. square feet	b. square feet	c. square feet	d. square feet
6.	<ul><li>☐ Land Under</li><li>Waterbodies and</li><li>Waterways</li></ul>	a. square feet	b. square feet	c. square feet	d. square feet
		e. c/y dredged	f. c/y dredged		
7.	<ul><li>Bordering Land</li><li>Subject to Flooding</li></ul>	a. square feet	b. square feet	c. square feet	d. square feet
	Cubic Feet Flood Storage	e. cubic feet	f. cubic feet	g. cubic feet	h. cubic feet
8.	<ul><li>Isolated Land</li><li>Subject to Flooding</li></ul>	a. square feet	b. square feet		
	Cubic Feet Flood Storage	c. cubic feet	d. cubic feel	e. cubic feet	f. cubic feet
9.	☐ Riverfront Area	a, total sq. feet	b. total sq. feet		
	Sq ft within 100 ft	c. square feet	d. square feet	e. square feet	f. square feet
	Sq ft between 100- 200 ft	g. square feet	h. square feet	i, square feet	j. square feet



# WPA Form 5 - Order of Conditions

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

Provided by MassDEP:
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# B. Findings (cont.)

Coastal Resource Area Impacts: Check all that apply below. (For Approvals Only)

		Proposed	Permitted	Proposed Replacement	Permitted Replacement
10.	☐ Designated Port	Alteration	Alteration	•	•
10.	Areas	Indicate size u	nder Land Und	er the Ocean, be	low
11.	Land Under the Ocean	a. square feet	b. square feet		
		c. c/y dredged	d. c/y dredged		
12.	Barrier Beaches	Indicate size u below	nder Coastal B	eaches and/or C	oastal Dunes
13.	Coastal Beaches			cu yd	cu yd
15,	Obasiai bodones	a. square feet	b. square feet	c. nourishment	d. nourishment
14.	Coastal Dunes	a. square feet	b. square feet	cu yd c. nourishment	d, nourishment
15.	☐ Coastal Banks	a. linear feet	b. linear feet		
16.	Rocky Intertidal Shores	a. square feet	b. square feet		
17.	☐ Salt Marshes	a. square feet	b. square feet	c. square feet	d. square feet
18.	☐ Land Under Salt Ponds	a. square feet	b. square feet		
		c. c/y dredged	d. c/y dredged		
19.	☐ Land Containing Shellfish	a, square feet	b. square feet	c. square feet	d. square feet
20.	Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above			
		a. c/y dredged	b. c/y dredged	-	
21.	Land Subject to Coastal Storm Flowage	a. square feet	b. square feet		



B. Findings (cont.)

#### Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

## WPA Form 5 – Order of Conditions

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

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* #22. 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.5.c
/BV/M/) or

B.17.c (Salt

olease enter

the additional

22.	Restoration/Enhancement *:	
	a. square feet of BVW	b. square feet of salt marsh
23.	Stream Crossing(s):	
	a. number of new stream crossings	b. number of replacement stream crossings

#### C. General Conditions Under Massachusetts Wetlands Protection Act

#### The following conditions are only applicable to Approved projects.

- Marsh) above, 1 Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
- The Order does not grant any property rights or any exclusive privileges; it does not amount here. 2. authorize any injury to private property or invasion of private rights.
  - 3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
  - 4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
    - a. the work is a maintenance dredging project as provided for in the Act; or
    - b. the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
  - 5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
  - 6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on \$5.17 unless extended in writing by the Department.
  - 7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.
  - 8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.



# WPA Form 5 – Order of Conditions

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

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#### C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- 9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.
- A sign shall be displayed at the site not less then two square feet or more than three square feet in size bearing the words,

"Massachusetts Department o	of Environmental	Protection"	[or, "MassDEP"]
"File Number	114-1178	D	

- 11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
- 12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
- 13. The work shall conform to the plans and special conditions referenced in this order.
- 14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
- 15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
- 16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.
- 17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.



### WPA Form 5 – Order of Conditions

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

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City/Town

#### C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

#### NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS

- 19. The work associated with this Order (the "Project") is (1) ⊠ is not (2) □ subject to the Massachusetts Stormwater Standards. If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:
  - a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period poliution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.
  - b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that: *i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures; *ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;

iii. any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;

iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition; v. any vegetation associated with post-construction BMPs is suitably established to withstand erosion.



# WPA Form 5 - Order of Conditions

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

Provided by MassDEP:

MassDEP File # 114-1178 eDEP Transaction #

Boxford City/Town

#### C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- c) The landowner is responsible for BMP maintenance until the Issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement) for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following: i.) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and ii.) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
- d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.
- e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 18(f) through 18(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through 18(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.
- f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.



# WPA Form 5 - Order of Conditions

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

Provided by MassDEF.
MassDEP File #
114-1178
eDEP Transaction #
Boxford
City/Town

#### C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- g) The responsible party shall:
  - Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
  - 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
  - Allow members and agents of the MassDEP and the Commission to enter and
    inspect the site to evaluate and ensure that the responsible party is in compliance
    with the requirements for each BMP established in the O&M Plan approved by the
    issuing authority.
- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- Access for maintenance, repair, and/or replacement of BMPs shall not be withheld.
   Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions (if you need more space for additional conditions, please attach a text document):					



# WPA Form 5 - Order of Conditions

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

Provided by MassDEP:
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# D. Findings Under Municipal Wetlands Bylaw or Ordinance

1.	Is a municipal wetlands bylaw or ordinance applicable? 🗵 Yes 🗌	No
2.	The Boxford Conservation Commission hereby finds (check of Conservation Commission	one that applies):
	<ul> <li>a.               ☐ that the proposed work cannot be conditioned to meet the standar municipal ordinance or bylaw, specifically:      </li> </ul>	ds set forth in a
	1. Municipal Ordinance or Bylaw	2. Citation
	Therefore, work on this project may not go forward unless and until a Intent is submitted which provides measures which are adequate to n standards, and a final Order of Conditions is issued.	
	<ul> <li>b.  that the following additional conditions are necessary to comply windered or bylaw:</li> </ul>	th a municipal
	Boxford Wetlands Protection Bylaw  1. Municipal Ordinance or Bylaw	Town Code Ch. 192
3.	The Commission orders that all work shall be performed in accordance we conditions and with the Notice of Intent referenced above. To the extent the conditions modify or differ from the plans, specifications, or other proposative Notice of Intent, the conditions shall control.	hat the following
	The special conditions relating to municipal ordinance or bylaw are as foll more space for additional conditions, attach a text document):	ows (if you need
	See separate Order of Conditions issued pursuant to the Boxford Wetland Bylaw, Town Code Ch. 192.	ds Protection



## WPA Form 5 - Order of Conditions

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

Provided	bу	MassDEP	:

MassDEP File #
114-1178
eDEP Transaction #
Boxford
City/Town

#### E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

Please indicate the number of members who will sign this form.

This Order must be signed by a majority of the Conservation Commission.

1. Date of Issuance

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

gnatures:	( ) Comment
Paris Beglett	
by hand delivery on	by certified mail, return receipt requested, on
Date	Date

## F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request of Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.



# Town of Boxford Massachusetts

Conservation Commission

finds that the project, as proposed, is:

# **Order of Conditions**

Boxford Wetlands Protection Bylaw, Town Code c. 192

8oxford File Number

114-1178

for official use only

A Applicant Information	
From:	The Notice of Intent for this project was filed on:
Boxford Conservation Commission	12-31-2013
Conservation Commission	Dale
For:	The public hearing was closed on:
	•
114-1178 Project File Number	4-17-2014 Date
_	<b></b>
To:	Issuance date of this Order:
Bill Gianguitto	5/5/2014
Applicant Name	Date /
36 Winter Street	Title and date of final plans and other documents:
Mailing Address	
Malden	Plan to Accompany Notice of Intent Andersen
City/Town	Drive Boxford, Mass., prepared by Hayes Engineering and stamped by Peter J. Ogren, P.E.,
MA 01248	dated December 12, 2013 and last revised 4-8-
State Zip Code	2014 (3 sheets)
The project site is located at:	
. ,	Plen Title
Andersen Drive, Lot 8A Boxford Street/Street address (if available) City/Town	
Map: 17 Block: 1 Lot: 16 Assessors Map/Block/Lot Number	
and the property is recorded at the Registry of Deeds for:	
Essex South 23980 45	
County Book Page	
Certificate (if registered land)	
B Findings	
rindings	(check one of the following boxes)
Findings of the Boxford Conservation Commission	(Check the of the lollowing boxes)
pursuant to the Boxford Wellands Protection Bylaw:	Approved subject to:
Following the review of the above-referenced Notice of Intent	★ the following conditions which are necessary, in
and based on the information provided in this application and	accordance with the performance standards set forth in the
presented at the public hearing, this commission finds that the area in which work is proposed is significant to the following	Bylaw regulations, to protect those interests checked above. This Commission orders that all the work shall be
interests of the Bylaw (check all that apply)	performed in accordance with the Notice of Intent
	referenced above, the following General Conditions, and
☐ Public Water Supply ☐ Private Water Supply	any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the
☐ Groundwater Supply	plans, specifications, or other proposals submitted with the
☐ Flood Control	Notice of Intent, these conditions shall control.
Fisheries	
Storm Damage Prevention	
<del>-</del>	
☑ Prevention of Pollution	
□ Prevention of Pollution     □ Protection of Wildlife Habitat	
☑ Prevention of Pollution ☐ Protection of Wildlife Habitat ☐ Protection of Rare Species Habitat	
□ Prevention of Pollution     □ Protection of Wildlife Habitat	



#### **Town of Boxford Massachusetts** Conservation Department

# **Order of Conditions**

Boxford Wetlands Protection Bylaw, Town Code c. 192

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## Findings (cont.)

#### Additional Findings

This Order is issued under the Boxford Wetlands Protection Bylaw, Town Code c. 192. The Boxford Bylaw is more protective of wetland resources than the Wetland Protection Act and associated regulations because, among other things, it identifies a 100-foot wide wetland buffer zone around wetlands as a separate resource area, and establishes specific wetland setbacks for identified activities within the buffer zone. The Boxford Conservation Commission reviewed the proposed project with consideration for the more protective requirements of the Boxford Bylaw, and determined that the additional conditions contained in this Bylaw Order are necessary to ensure adequate protection of resource areas.

This Order permits improvement of an existing wood road to serve as a residential driveway, including the replacement of an existing culvert at an intermittent stream crossing. The culvert replacement shall occur only during the month of August when the stream bed is dry. The replacement culvert shall have the same nominal interior dimension as the existing culvert. No disturbance of the stream channel on either side of the culvert is authorized by this Order.

#### **General Conditions**

- This Bylaw Order of Conditions hereby incorporates by reference and affirms all conditions set forth in the Massachusetts Wetlands Protection Act Order of Conditions issued simultaneously by the Boxford Conservation Commission for this project (if so issued).
- The BCC or its Administrator, officers, or employees shall have the right to enter and inspect the property at any time for compliance with the conditions of this Order, the Boxford Wellands Protection Bylaw and Regulations, Town Code Ch. 192 and Ch. 375, and shall have the right to require any data or documentation that it deems necessary for that evaluation.
- 3. No work shall be undertaken until this Order has become final and then has been recorded in its entirety in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Boxford Conservation Commission on the form at the end of this Order, which must be stamped by the Registry of Deeds, prior to the commencement of the work.
- All activities on this property shall comply with the provisions of the Boxford Wetlands Protection Bylaw and Regulations.

#### Prior to Construction

 At the Pre-Activity Meeting, the Conservation Commission's representative shall install conservation markers as shown on the approved plan and along the approved limit of work.
 Conservation markers consist of a four-inch diameter white

- metal disk with green lettering which reads; "Boxford Conservation Commission Protected Area."
- The applicant shall provide pre-construction photographs of the work area.

#### **During Construction**

- The burial of stumps and any other type of construction refuse or other waste material is prohibited in the buffer zone.
- In case of emergencies, problems, or the need to discuss site conditions with the Boxford Conservation Commission, please contact the Commission or its Administrator during business hours at (978) 887-6000 x506.
- Mulch sock may be used as erosion control in lieu of silt fence and haybales where approved by the Conservation Agent. Conservation Agent may require different or additional erosion control as site conditions warrant.
- Erosion controls shall be placed at the construction access sufficient to prevent mud from tracking onto paved areas or as directed by the Conservation Agent in the field.
- 11. The culvert replacement shall occur only during the month of August when the stream bed is dry. No disturbance of the stream channel on either side of the culvert is authorized by this Order.

#### After Construction

- 12. An application for a Certificate of Compliance must be submitted to the Boxford Conservation Office within 30 days of completion of the work, but in no event later than 30 days after the expiration of this Order whether work is completed or not. This requirement shall continue in force after the expiration of this Order.
- 13. In addition to the Items required for a Certificate of Compliance by the Wetlands Protection Act Order of Conditions, the following items must also be submitted under this Bylaw Order of Conditions:
  - A check for the applicable Bylaw fee made out to the "Town of Boxford" must be submitted with the written request for a Certificate of Compliance.
  - (2) A letter from a Registered Professional Engineer certifying compliance of the property with this Order of Conditions.
  - (3) Post-construction photographs of the work area.
  - (4) An "As-Built" plan signed and stamped by a Registered Professional Engineer or Land Surveyor showing postconstruction conditions within all areas under the jurisdiction of the Boxford Wetlands Protection Bylaw. This plan shall include at a minimum:
    - (a) All wetland resource area boundaries with associated buffer zones and regulatory setback areas taken from the plan(s) approved in this Order of Conditions;
    - (b) Locations and elevations of all stormwater management conveyances, structures and best management measures, including foundation drains,

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# Town of Boxford Massachusetts Conservation Department

# **Order of Conditions**

Boxford Wetlands Protection Bylaw, Town Code c. 192

# B Findings (cont.)

constructed under this Order within any wetland resource area or buffer zone;

- (c) Distances from any structures constructed under this Order to wetland resource areas - "structures" include, but are not limited to, all buildings, septic system components, wells, utility lines, fences, retaining walls, and roads/driveways;
- (d) The location of Conservation markers:
- (c) A line defineating the limit of work "work" includes any filling, excavating and/or disturbance of soils or vegetation approved under this Order;

Continuing Conditions: These condition shall survive the expiration of this Order, and shall be included as continuing conditions in perpetuity on the Certificate of Compliance,

- Conservation markers shall remain in place during and after construction, in perpetuity.
- De-icing chemicals (e.g. sodium, potassium, and calcium chloride) are prohibited on driveways located in wetland resource areas and buffer zones.
- 16. Only slow-release organic granular type fertilizers shall be used within the welland buffer zone. Use of fertilizers on all areas of the site shall be minimized as much as practicable.

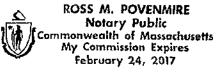
This Order is valid for three years from the following date unless extended:

	5	/5	/201	e,		
Date	,	,				

This Order must be signed by a majority of the Conservation Commission. The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate regional office of the Department of Environmental Protection.

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who proved to me through satisfactory evidence	of
identification, which is my identification of the pri	
upon my personal knowledge, to be the person y	
signed on the preceding or attached document.	
acknowledged to me that he signed it voluntarily	
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Notary Public	<del>/</del>
2.24.2017	
My commission expires	
This Order is issued to the applicant as follows:	
by hand delivery on	
Date	<del>_</del>
by certified mail, return receipt requested, on	
5-5-6014	
Date	



File #114-1178

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#### Town of Boxford Massachusetts Conservation Department

# **Order of Conditions**

Boxford Wetlands Protection Bylaw, Town Code c. 192

G Appeals

Any person wishing to appeal this Bylaw Order of Conditions must file an appeal with the Massachusetts Supreme Judicial Court of the Superior Court within 60 days of the date of issuance of this Order. The Bylaw Order appeal process is completely distinct from any appeal to the Massachusetts Department of Environmental Protection of an Order of Conditions issued by the Conservation Commission under the Massachusetts Wetlands Protection Act.

# P Recording Information

This Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information shall be submitted to the Boxford Conservation Commission on the form below, which must be stamped by the Registry of Deeds.

Detach on dotted line (or photocopy this page) and submit to the Conservation Commission

To: Boxford Conservation Commission	on
Please be advised that the Order of C project at	Conditions for the
Andersen Drive, Lot 8A	114-1178
Project Location	DEP File Number
has been recorded at the Registry of	Deeds of
Essex South	
County	
and has been noted in the chain of tit property in	le of the affected
Book	
Page	<del></del>
n accordance with the Order of Cond	litions issued on
Date	
f recorded land, the instrument numb ransaction is	per which identifies this
Date f registered land, the document numl ransaction is	ber which identifies this

Document Number

Signature of Applicant

Please sign where indicated and mail or hand deliver to the Boxford Conservation Office, 7A Spofford Road, Boxford, MA 01921

# EROSION AND SEDIMENTATION CONTROL ANDERSEN DRIVE, LOT 8A BOXFORD, MASSACHUSETTS

August 25, 2020

#### PART I - GENERAL

#### QUALITY ASSURANCE

- A. The applicant and all site contractors shall be responsible for reviewing, and taking steps to meet, all requirements contained in the Order of Conditions issued by the Conservation Commission for this project.
- B. Follow siltation control methods as outlined below, shown on the plan and as directed by Engineer.
- C. Operations will be restricted to areas of work indicated on drawings (and clearly marked on site) and area which must be entered for construction of temporary or permanent facilities.
- D. Conservation Commission has authority to limit surface area of erodible earth material exposed by clearing and grubbing, excavation, borrow and fill operations, and to direct immediate permanent or temporary pollution control measures to prevent contamination of wetlands, including construction of temporary berms, sediment basins, sediment traps, slope drains and use of temporary mulches, mats or other control devices or methods as necessary to control erosion.
- E. Temporary stockpiles of soil shall be located in an upland area (not to exceed the limit of construction as demarcated by siltation fencing shown on the plan) and be surrounded with an erosion control barrier to prevent sediments from encroaching upon adjacent resource areas.

#### PART 2 - EROSION CONTROL BARRIERS

Erosion barriers shall be installed along wetland boundaries as shown on the Notice of Intent Plan prior to commencement of any site work. Barriers specified on the plan shall be installed as specified below. Alternative types of barriers (i.e straw, coir or Filtrexx<sup>TM</sup>" type logs) may be used with the approval of the Conservation Commission and Project Engineer, and be installed per manufacturer's instructions. The approved alternative barrier must be designed and sized specifically for conditions on this site. After initial barrier installation, site personnel shall perform weekly inspections of, and maintain, the siltation control barrier during construction. Inspections of the siltation control barrier shall also be performed prior to and immediately following major (>1") rainfall event. After all construction activities are completed, and the areas of bare soil are vegetated and or stabilized, the siltation control barriers may be removed upon approval of the Conservation Commission. It is important that the disturbed areas previously occupied by the siltation control barriers, as well as adjacent areas, be repaired and vegetated immediately after removal of the barriers.

#### A. MATERIALS

#### Staked Haybale Barrier

- 1. Hay or straw bales, enough to accomplish length specified on plan and 10 to be reserved for replacement or barrier re-enforcement use, as needed.
- 2. 2-inch by 2-inch by 3.5-foot wooden stakes for hay bales, two stakes per bale.

#### Filter Fences

- 1. Synthetic Filter Fabric
  - a. Synthetic filter fabric (i.e Marafi or other brand of siltation control filter fabric) shall consist of a pervious sheet of propylene, nylon, polyester or ethylene filaments. Standard or extra -strength filter fabric may be installed.
  - b. Certified by manufacturer or supplier as conforming to the following requirements:

#### Physical Property

Filtering Efficiency Tensile Strength at 20% (maximum) Elongation

Flow Rate

#### Minimum Requirements

75 percent Extra Strength: 50 lbs./ linear inch Standard Strength: 30 lbs../ linear inch .3 gal./ sq.ft.

- 2. Non-synthetic Filter Fabric
  - a. Shall consist of burlap fabric weighing 10 ounces per square yard.
- 3. Filter Fabric Support
  - a. Posts or stakes for filter fences shall be of sufficient size and strength to support the fabric. Steel posts shall have projections for fastening wire to them.
  - b. When standard strength filter fabric fencing is used on a sloped location, the fabric shall be reinforced by wire mesh fence. Wire fence reinforcement for filter fences shall be a minimum of 36 inches in height, a minimum of 14 gauge and a maximum mesh spacing of 6 inches.

#### **B. INSTALLATION**

#### Location

Install erosion controls prior to commencement of construction activities along limits of work area as specified on plan, surrounding bases of all deposits of stored fill material outside of disturbed area, and where directed by the Conservation Commission.

#### Barrier Installment

#### 1. Hay Bales

Hay bales, if specified, will be embedded in the soil a minimum of 4 inches. Hold bales in place with two 2-inch by 2-inch by 3.5-foot stakes so that each bale is butted tightly against adjoining bale, thereby precluding short-circuiting of erosion check. The first stake in each bale shall be driven toward the previously-laid bale to push the bales together.

- 2. Filter Fences (If required)
- a. Excavate trench along post line 6 inches wide and 6 inches deep on the upslope side of the barrier.
- b. Space posts a maximum of 10 feet apart and drive them a minimum of 12 inches into the ground. The posts should not be greater than 36 inches above the ground.
- c. Staple, wire or tie the standard or extra- strength filter fabric to the posts. The fabric shall extend 8 inches into the trench and shall not extend more than 36 inches above the ground. Do not staple filter fabric to existing trees.
- d. Backfill trench and compact soil over filter fabric.
- e. When extra-strength filter fabric or burlap and closer post spacing (6 ' max.) is used for projects on slopes, wire mesh support may be eliminated, in which case the filter fabric is stapled, wired or tied directly to the posts with all other provisions of item 4 applying.

## PART 3 - POLLUTION CONTROL MEASURES

- A. Discharge silt-laden water from excavations onto filter fabric mat and/or baled hay or straw sediment traps to ensure that only sediment-free water is returned to wetland areas. Sediment traps, if needed, should be constructed by standard methods.
- B. Do not place soil backfill material adjacent to resource areas without proper siltation controls or otherwise preventing the soil from washing away by high water or runoff.
- C. Do not dump any materials into any streams, wetlands, surface waters or unspecified locations.
- D. Do not dispose of trees, brush, debris, paints, chemicals, asphalt products, concrete curing compounds, fuels, lubricants, insecticides, washwater from concrete trucks or hydroseeders, or any other pollutant into any streams, wetlands, surface waters or natural or man-made channels leading thereto, or unspecified locations.
- E. No disturbance or alteration of any kind allowed between the specified limit of work and the wetlands.

- F. Prevent any operation of equipment outside the designated limit of work (erosion control barrier).
- G. Prevent indiscriminate, arbitrary or capricious operation of equipment in surface waters.

#### PART 4 - EQUIPMENT STORAGE AND REFUELING

- A. All equipment refueling shall take place as far away as possible from wetlands as possible.
- B. All equipment shall be parked as far away as possible from the on-site wetland boundary or removed from the site at the end of the workday.
- C. No permanent or temporary storage of fuel and / or lubricants allowed on the site.

#### PART 5 - STABILIZATION TECHNIQUES

#### A. Protecting and Minimizing Exposed Areas

Steps shall be taken to minimize area of bare soil exposure by preserving existing vegetation and providing soil stabilization. Equipment and trucks shall be routed only over the existing pavement or areas of proposed work, and workers shall minimize foot traffic in vegetated areas adjacent to the work area as much as possible. During site work, utilization of stabilization techniques is necessary for controlling erosion on exposed areas, including grading, seeding and otherwise stabilizing the areas.

#### B. Sediment And Erosion Control / Soil Stabilization

- 1. Prior to any construction occurring adjacent to identified resource areas (shown on the plan and/or marked in the field, proper erosion and siltation barriers will be installed so that throughout and until completion of construction, those areas will be afforded maximum protection. Temporary stockpiles of soil shall be surrounded with an erosion control barrier to prevent sediments from exiting the subject property. All erosion control barriers are to be Maintained and periodically inspected until areas of bare soil are stabilized to ensure that they are in functioning condition. Any accumulations of sediments present along erosion control barriers shall be removed as soon as possible after deposition in order to ensure the effectiveness of all sedimentation controls.
- 2. On sites where grading or other work will occur on moderately steep slopes (3:1 and greater) located immediately upgradient of wetlands, the contractor shall work on one portion of the slope at a time, ensuring the stability of the disturbed soil by immediately loaming and seeding the slope, or otherwise vegetating the slope as desired, and installing erosion control mats (straw or cocoanut fiber designed for the slope steepness). If work is interrupted and the slope is to be left bare or otherwise unstabilized for duration of a day or more, a series of erosion control fences oriented parallel to the slope contours shall be installed along the length of slope.

#### C. Vegetational Covers

Erosion and Sedimentation Control, Andersen Drive, Lot 8A, Boxford, MA August 25, 2020

#### 1. Temporary Vegetational Cover

Any area proposed for removal of vegetation where soil will be exposed for more than 10 days shall be mulched or otherwise treated to prevent erosion. On sediment-producing areas in the buffer zone, where the period of exposure will be more than 30 days, the following procedures should be followed for a cover of annual rye. When bare soils are not completely graded and vegetated by September 30 of any year, winter rye shall be planted as specified in table and mulched with three (3) inches of hay or straw.

- a. install needed surface water control measures.
- b. Perform all cultural operations at right angles to the slope.
- c. Establish grass or other ground cover species as recommended in the attached excerpt (pgs 144 -146) from <u>Massachusetts Erosion and Sedimentation Guidelines for</u> Urban and Suburban Areas, 2003.

#### 2. Permanent Vegetational Cover

To reduce damages from the potential incidence of sedimentation and runoff to other properties, and to avoid erosion on the site itself, a permanent type cover shall be established in disturbed areas located adjacent to resource areas immediately upon completion of grading. Seeding herbaceous cover is usually the most economical and practical way to stabilize any large area. For this site, all disturbed areas where lawns are desired will be seeded in Fall during the period of August 1 to October 1; or in spring by May 15 with a commercial lawn mixture utilizing standard landscape methods and as recommended by the seed manufacturer. Grass sod or landscape plantings may be used instead of seed, if preferred.

In upland/ buffer zone areas, outside of lawn locations, where an erosion control - wildlife seed mixture is desired, prepare soil and use one of grass seed mixes #1 through #6 as recommended in the attached excerpts (pgs 136 -139) from Massachusetts Erosion and Sedimentation Guidelines for Urban and Suburban Areas 2003, to establish a stable, permanent cover.

#### REFERENCES

Department of Environmental Protection, Bureau of Resource Protection and U.S. Environmental Protection Agency, <u>Massachusetts Erosion and Sedimentation Guidelines for Urban and Suburban Areas: A Guide for Planners, Designers and Municipal Officials.</u> Massachusetts Executive Office of Environmental Affairs, Boston, Massachusetts, Reprint: May 2003.

Use low-maintenance native species wherever possible. Planting should be timed to minimize the need for irrigation.

Sheet erosion, caused by the impact of rain on bare soil, is the source of most fine particles in sediment. To reduce this sediment load in runoff, the soil surface itself should be protected. The most efficient and economical means of controlling sheet and rill erosion is to establish vegetative cover. Annual plants which sprout rapidly and survive for only one growing season are suitable for establishing temporary vegetative cover. Temporary seeding is effective when combined with construction phasing so bare areas of the site are minimized at all times.

Temporary seeding may prevent costly maintenance operations on other erosion control systems. For example, sediment basin clean-outs will be reduced if the drainage area of the basin is seeded where grading and construction are not taking place. Perimeter dikes will be more effective if not choked with sediment.

Proper seedbed preparation and the use of quality seed are important in this practice just as in permanent seeding. Failure to carefully follow sound agronomic recommendations will often result in an inadequate stand of vegetation that provides little or no erosion control.

Soil that has been compacted by heavy traffic or machinery may need to be loosened. Successful growth usually requires that the soil be tilled before the seed is applied. Topsoiling is not necessary for temporary seeding; however, it may improve the chances of establishing temporary vegetation in an area.

# **Planting Procedures**

#### Time of Planting

Planting should preferably be done between April 1 and June 30, and September 1 through September 30. If planting is done in the months of July and August, irrigation may be required. If planting is done between October 1 and March 31, mulching should be applied immediately after planting. If seeding is done during the summer months, irrigation of some sort will probably be necessary.

#### Site Preparation

Before seeding, install needed surface runoff control measures such as gradient terraces, interceptor dike/swales, level spreaders, and sediment basins.

#### **Seedbed Preparation**

The seedbed should be firm with a fairly fine surface.

Perform all cultural operations across or at right angles to the slope. See **Topsoiling** and **Surface Roughening** for more information on seedbed preparation. A minimum of 2 to 4 inches of tilled topsoil is required.

Annual ryegrass used for temporary seeding

Ryegrass reseeds itself and makes it difficult to establish a good cover of permanent vegetation.

Seed not broadcast evenly or rate too low Results in patchy growth and erosion.

#### Maintenance

Inspect within 6 weeks of planting to see if stands are adequate. Check for damage after heavy rains. Stands should be uniform and dense. Fertilize, reseed, and mulch damaged and sparse areas immediately. Tack or tie down mulch as necessary.

Seeds should be supplied with adequate moisture. Furnish water as needed, especially in abnormally hot or dry weather or on adverse sites. Water application rates should be controlled to prevent runoff.

#### References

Massachusetts Department of Environmental Protection, Office of Watershed Management, Nonpoint Source Program, Massachusetts *Nonpoint Source Management Manual*, Boston, Massachusetts, June, 1993.

North Carolina Department of Environment, Health, and Natural Resources, *Erosion and Sediment Control Field Manual*, Raleigh, NC, February 1991.

U.S. Environmental Protection Agency, <u>Storm Water Management For</u> <u>Construction Activities</u>, EPA-832-R- 92-005, Washington, DC, September, 1992.

Washington State Department of Ecology, <u>Stormwater Management Manual</u> for the Puget Sound Basin, Olympia, WA, February, 1992.

# Silt Curtain

A temporary sediment barrier installed parallel to the bank of a stream or lake. Used to contain the sediment produced by construction operations on the bank of a stream or lake and allow for its removal.

#### Where Practice Applies

The silt curtain is used along the banks of streams or lakes where sediment could pollute or degrade the stream or lake.

#### Seeding Dates

Seeding operations should be performed as an early spring seeding (April 1-May 15) with the use of cold treated seed. A late fall early winter dormant seeding (November 1 - December 15) can also be made, however the seeding rate will need to be increased by 50%.

#### **Seeding Methods**

Seeding should be performed by one of the following methods:

- .. Drill seedings (de-awned or de-bearded seed should be used unless the drill is equipped with special features to accept awned seed).
- Broadcast seeding with subsequent rolling, cultipacking or tracking the seeding with small track construction equipment. Tracking should be oriented up and down the slope.
- Hydroseeding with subsequent tracking. If wood fiber mulch is used, it should be applied as a separate operation after seeding and tracking to assure good seed to soil contact.

#### Mulch

Mulch the seedings with straw applied at the rate of ½ tons per acre. Anchor the mulch with erosion control netting or fabric on sloping areas.

#### **Seed Mixtures for Permanent Cover**

Recommended mixtures for permanent seeding are provided on the following pages. Select plant species which are suited to the site conditions and planned use. Soil moisture conditions, often the major limiting site factor, are usually classified as follows:

 $\emph{Dry}$  - Sands and gravels to sandy loams. No effective moisture supply from seepage or a high water table.

*Moist* - Well drained to moderately well drained sandy loams, loams, and finer; or coarser textured material with moderate influence on root zone from seepage or a high water table.

Wet - All textures with a water table at or very near the soil surface, or with enduring seepage.

When other factors strongly influence site conditions, the plants selected must also be tolerant of these conditions.

				Seed, Pound	s per:
Mix	Site	Seed Mixture	Acre	1,000 sf	Remarks
1	Dry	Little Bluestem			* Use Warm Season planting procedure.
		or Broomsedge	10	0.25	* Roadsides
		Tumble Lovegrass*	1	0.10	* Sand and Gravel Stabilization
		Switchgrass	10	0.25	* Clover requires inoculation with nitrogen- fixing bacteria
		Bush Clover*	2	0.10	
		Red Top	1	0.10	* Rates for this mix are for PLS.
2	Dry	Deertongue	15	0.35	* Use Warm Season planting procedures.
		Broomsedge	10	0.25	* Acid sites/Mine spoil
		Bush Clover*	2	0.10	<ul> <li>Clover requires inoculation with nitrogen- fixing bacteria.</li> </ul>
		Red Top	1	0.10	GLOROST CARCOLLOS
					*Rates for this mix are for PLS.
3	Dry	Big Bluestem	10	0.25	* Use Warm Season planting procedures.
		Indian Grass	10	0.25	* Eastern Prairie appearance
		Switchgrass	10	0.25	* Sand and Gravel pits.
		Little Bluestem	10	0.25	* Golf Course Wild Areas
		Red Top or	1	0.10	* Sanitary Landfill Cover seeding
		Perennial Ryegrass	10	0.25	* Wildlife Areas
					*OK to substitute Poverty Dropseed in place of Red Top/Ryegrass.
					*Rates for this mix are for PLS.
4	Dry	Flat Pea	25	0.60	* Use Cool Season planting procedures
		Red Top or	2	0.10	* Utility Rights-of-Ways (tends to suppress
		Perennial Ryegrass	15	0.35	woody growth)
5	Dry	Little Bluestem	5	0.10	* Use Warm Season planting procedures.
		Switchgrass	10	0.25	* Coastal sites
		Beach Pea*	20	0.45	* Rates for Bluestein and Switchgrass are for
		Perennial Ryegrass	10	0.25	PLS.
6	Dry-	Red Fescue	10	0.25	* Use Cool Season planting procedure.
	Moist	Canada Bluegrass	10	0.25	* Provides quick cover but is non-aggressive
		Perennial Ryegrass	10	0.25	will tend to allow indigenous plant colonization.
		Red Top	1	0.10	* General erosion control on variety of sites including forest roads, skid trails and landings.
7		Switchgrass	10	0.25	* Use Warm Season planting procedure.
	Wet	Virginia Wild Rye	5	0.10	* Coastal plain/flood plain
		Big Bluestem	15	0.35	* Rates for Bluestem and Switchgrass are fo
		Red Top	1	0.10	PLS.

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				Seed, Pound	
Mix	Site	Seed Mixture	Acre	1,000 sf	Remarks
8	Moist		5	0.10	* Use Cool Season planting procedures.
	Wet	Fringed Bromegrass	5	0.10	* Pond Banks
		Fowl Meadowgrass	5	0.10	* Waterways/ditch banks
		Bluejoint Reedgrass			
		or Rice Cutgrass	2	0.10	
		Perennial Ryegrass	10	0.25	
9	Moist	Red Fescue	5	0.10	*Salt Tolerant
	Wet	Creeping Bentgrass	2	0.10	* Fescue and Bentgrass provide low growing appearance, while Switchgrass provides tall cover for wildlife.
		Switchgrass	8	0.20	
		Perennial Ryegrass	10	0.25	
10	Moist	Red Fescue	5	0.10	* Use Cool Season planting procedure.
	Wet	Creeping Bentgrass	5	0.10	<ul> <li>* Trefoil requires inoculation with nitrogen fixing bacteria.</li> </ul>
		Virginia Wild Rye	8	0.20	
		Wood Reed Grass*	1	0.10	* Suitable for forest access roads, skid
		Showy Tick Trefoil*	1	0.10	trails and other partial shade situations.
11	Moist	Creeping Bentgrass	5	0.10	* Use Cool Season planting procedure.
	Wet	Bluejoint Reed Grass	1	0.10	* Suitable for waterways, pond or ditch banks.
		Virginia Wild Rye	3	0.10	* Trefoil requires inoculation with nitrogen fixing bacteria.
		Fowl Meadow Grass	10	0.25	
		Showy Tick Trefoil*	1	0.10	
		Red Top	1	0.10	
12	Wet	Blue Joint Reed Grass	1	0.10	* Use Cool Season planting procedure.
		Canada Manna Grass	1	0.10	* OK to seed in saturated soil conditions, but not in standing water.
		Rice Cut Grass	1	0.10	
		Creeping Bent Grass	5	0.10	* Suitable as stabilization seeding for created wetland.
		Fowl Meadow Grass	5	0.10	* All species in this mix are native to Massachusetts.
13	Dry-	American Beachgrass	s 18"	18'	*Vegetative planting with dormant culms, 3-5 culms per planting
	Moist			centers	centers
14	Inter-	Smooth Cordgrass12-		12-18"	* Vegetative planting with transplants.
	Tidal	Saltmeadow Cordgras	S	centers	centers

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