Nantasket Beach Coastal Storm Damage Reduction Project

Phase 2: Beach Nourishment Hull, MA

Massachusetts Wetlands Protection Act Notice of Intent





Massachusetts Department of Conservation and Recreation

April 9, 2018

4/9/2018





April 6, 2018

Dr. Chris Krahforst Conservation Administrator Town of Hull 253 Atlantic Avenue Hull, MA 02045

RE: Nantasket Beach Coastal Storm Damage Reduction Protection Project

Phase 2: Beach Nourishment

Notice of Intent

Dear Chris:

The Massachusetts Department of Conservation and Recreation's (DCR) is the local sponsor of the *Nantasket Beach Coastal Storm Damage Reduction Protection Project* at the Nantasket Beach Reservation in Hull, Massachusetts. DCR is hereby filing a Chapter 91 license application for Phase 2 of the project (Beach nourishment).

The overall purpose of the entire project (Phases 1 and 2) is to reduce storm damage. Gradual erosion over time as a result of storm-driven waves from the east has resulted in a loss of beach material in front of the concrete seawall and consequent lowering of the beach elevation. This has left the existing seawall vulnerable to damage and upland properties subject to an increased risk of storm damage and flooding due to overtopping during coastal storms. This increased flood risk and storm damage threatens public, commercial, and residential properties located landward of the seawall.

Phase 1 of the Nantasket Beach Coastal Storm Damage Reduction Protection Project is currently being completed; it consists of the installation of a stone revetment at the base of the seawall. This part of the project, Phase 2 - Beach nourishment, consists of placement of up to 700,000 cubic yards (cy) of suitable nourishment material seaward of the revetment along the full length of the Reservation (6,800 linear feet).

The source of the initial volume of nourishment material (up to approximately 300,000 cy) is the U.S. Army Corps of Engineers' Piscataqua River dredging project on the border of Maine and New Hampshire. The source has been assessed for physical and chemical characteristics and has been found suitable for nourishing Nantasket Beach. Dredging may occur as early as October 15, 2018.

Future nourishments as part of this Phase 2 project (both to add to the initially placed volume from the Piscataqua River site and to renourish the beach after erosion of placed material) would depend on available sources of suitable material. Options would include other dredging projects and upland sources. Sediments would be assessed for their physical and chemical suitability prior to placement.

COMMONWEALTH OF MASSACHUSETTS . EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS

Department of Conservation and Recreation 251 Causeway Street, Suite 600 Boston MA 02114-2119 617-626-1250 617-626-1351 Fax www.mass.gov/dcr



Part of the project area for the Phase 2 nourishment project is on property owned by the Hull Redevelopment Authority (HRA); the HRA property (Parcel 27-061) has been identified on the Project Plans (Sheet 2). Therefore, the Notice of Intent and the Chapter 91 permit application to MassDEP were also signed by Mr. Bart Kelly from the HRA to approve placement of the material in this area.

Thank you very much for your review. Please advise us if you have any questions or comments, or require additional information. You can contact me at (617) 626-1442, or by e-mail at Mike.Galvin@state.ma.us.

Sincerely,

Michael Galvin Project Engineer

cc: P. Geigis, Deputy Commissioner for Conservation and Resource Stewardship R. Lowell, Acting Chief Engineer

Notice of Intent Table of Contents

Notice of Intent Form

Attachment A - Project Narrative

Attachment B - Project Plans

Attachment C - Massachusetts Endangered Species Act (MESA) review

Attachment D – Letter from Massachusetts Board of Underwater Archaeological Resources

Attachment E - Proof of Mailing of NOI

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Notice of Intent Form

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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

Hull

City/Town

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





Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General	Information
------------	-------------

	Project Location (N			*CONTRACTOR SECURIOR				
	Nantasket Beach: a. Street Address	Nantasket Ave./Hull Shore	e Dr. Hull b. City/Town	02045 c. Zip Code				
	a. Olicet Address		42° 16' 07"	70° 51' 30"				
	Latitude and Longi	tude:	d. Latitude	e. Longitude				
	Maps: 27, 33, 34, 3		Parcels: DCR (37-010, 27-054, 27-056, 27-057,				
	f. Assessors Map/Plat N	lumber	27-058, 27-059); Hull Redevel. Auth. (27-061)				
2.	Applicant:							
	Priscilla a. First Name		Geigis					
	5-2-2-1	nortment of Canaariation	b. Last Name					
	c. Organization	partment of Conservation	rand Recreation (DCR)					
	251 Causeway Stre	eet						
	d. Street Address	501						
	Boston		MA	02114				
	e. City/Town		f. State	g. Zip Code				
	617-626-4986	617-626-1370	Priscilla .Geigis@st	ate.ma.us				
	h. Phone Number	i. Fax Number	j. Email Address					
3.	Property owner (re-	Property owner (required if different from applicant):						
	Same As Applicant							
	a. First Name		b. Last Name					
	c. Organization							
	d. Street Address							
	e. City/Town		f. State	g. Zip Code				
	h. Phone Number	i. Fax Number	j. Email address					
4.	Representative (if a	nny):						
	Bernward		Hay					
	a. First Name		b. Last Name					
	Louis Berger							
	c. Company							
	117 Kendrick St., #400							
	d. Street Address							
	Needham		MA	02494				
	e. City/Town		f. State	g. Zip Code				
				hay@louisberger.com				
	h. Phone Number	i. Fax Number	j. Email address					
5.	Total WPA Fee Pai	d (from NOI Wetland Fee	e Transmittal Form):					
	\$500.00	\$237.	50	\$262.50				



WPA Form 3 – Notice of Intent

A. General Information (continued)

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6.	General Project Description:				
	The purpose of the Coastal Storm Damage Reduction seawall along Nantasket Beach. Phase 2 of the properties of the purpose of the Coastal Storm Damage Reduction Seawall along Nantasket Beach. Phase 2 of the properties of the Coastal Storm Damage Reduction Seawall along Nantasket Beach. Phase 2 of the properties of the properties of the purpose of the Coastal Storm Damage Reduction Seawall along Nantasket Beach. Phase 2 of the properties of t	ject consists of nourishing the beach (up to overtopping and to create a recreational beach			
7a.	Project Type Checklist: (Limited Project Types see	Section A. 7b.)			
	1. Single Family Home	2. Residential Subdivision			
	3. Commercial/Industrial	4. Dock/Pier			
	5. Utilities	6. Coastal engineering Structure			
	7. Agriculture (e.g., cranberries, forestry)	8. Transportation			
	9. Other				
7b.	Is any portion of the proposed activity eligible to be Restoration Limited Project) subject to 310 CMR 10				
	1. Yes No If yes, describe which limited project applies to this project. (See 310 CMF 10.24 and 10.53 for a complete list and description of limited project types				
	2. Limited Project Type				
	If the proposed activity is eligible to be treated as a CMR10.24(8), 310 CMR 10.53(4)), complete and a				

8. Property recorded at the Registry of Deeds for:

Project Checklist and Signed Certification.

N/A	N/A	
a. County	b. Certificate # (if registered land)	
N/A	N/A	
c. Book	d. Page Number	

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

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

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



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

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

Resource	ce Area	Size of Proposed Alteration	Proposed Replacement (if any)				
a. 🗌	Bank Rendering Vegetated	1. linear feet	2. linear feet				
b	Bordering Vegetated Wetland	1. square feet	2. square feet				
c. 🛚	Land Under Waterbodies and Waterways	up to 322,344 1. square feet n/a 3. cubic yards dredged	n/a 2. square feet				
Resource	ce Area	Size of Proposed Alteration	Proposed Replacement (if any)				
d. 🔲	Bordering Land Subject to Flooding	1. square feet	2. square feet				
е. 🗌	Isolated Land	3. cubic feet of flood storage lost	4. cubic feet replaced				
	Subject to Flooding	1. square feet					
		2. cubic feet of flood storage lost	3. cubic feet replaced				
f. 🗌	Riverfront Area	Name of Waterway (if available) - specential	cify coastal or inland				
2.	Width of Riverfront Area (check one):	,				
	25 ft Designated De	ensely 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:							
4. Proposed alteration of the Riverfront Area:							
a. total square feet between 100 ft. and 200 ft. c. square feet between 100 ft. and 200 ft.							
5. H	las an alternatives analysis	s been done and is it attached to the	is NOI? Yes No				
6. W	Vas the lot where the activi	ty is proposed created prior to Aug	ust 1, 1996?				
3. 🛭 Coa	stal Resource Areas: (See	310 CMR 10.25-10.35)					
Note: fo	or coastal riverfront areas,	please complete Section B.2.f . abo	ove.				

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

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

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

Res	our	ce Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. [Designated Port Areas	Indicate size under Land Under	er the Ocean, below
b. 🛭	₫	Land Under the Ocean	up to 322,344 1. square feet n/a 2. cubic yards dredged	
с. 🛭		Barrier Beach	Indicate size under Coastal Bea	aches and/or Coastal Dunes below
d. 🛭	₫	Coastal Beaches	up to 2,892,384 1. square feet	up to 700,000 2. cubic yards beach nourishment
е. [Coastal Dunes	0 1. square feet	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	
	7	Load Castaining	2. cubic yards dredged	
j. L	_	Land Containing Shellfish	1. square feet	
k. [Fish Runs		nks, inland Bank, Land Under the ler Waterbodies and Waterways,
			cubic yards dredged	
I. 🗵	3	Land Subject to	32,344 1. square feet	
squ	ne pi		restoring or enhancing a wetland tered in Section B.2.b or B.3.h about	
a. so	quare	e feet of BVW	b. square feet of	Salt Marsh
5. 🗌	Pro	oject Involves Stream Cros	ssings	
a. nı	umbe	er of new stream crossings	b. number of rep	lacement stream crossings



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	C.	Other	Applicable	Standards	and	Requirements
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This is a proposal for an Ecological Restoration Limited Project. Skip Section C and
complete Appendix A: Ecological Restoration Limited Project Checklists - Required Actions
(310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

 Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicated the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the Massachusetts Natural Heritage Atlas or go to http://maps.massgis.state.ma.us/PRI EST HAB/viewer.htm. 					
	a. 🛛 Yes 🗌 I	No If	yes, include proof of mailing or hand delivery of NOI to:		
			Natural Heritage and Endangered Species Program		

August 2017, 14th Edition

ivision of Fisheries and Wildlite 1 Rabbit Hill Road Westborough, MA 01581

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

- c. Submit Supplemental Information for Endangered Species Review*
 - Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area

0.06% / 4.9 acres of Estimated Habitat altered

percentage/acreage

(b) outside Resource Area

93.7% / 73.7 acres of site outside Estimated

Habitat

- 2. Assessor's Map or right-of-way plan of site
- 2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **
 - (a) 🛛 Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site

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

^{**} MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process. Page 5 of 9



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

			(c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm). Make check payable to "Commonwealth of Massachusetts - NHESP" and <i>mail to NHESP</i> at					
	above address							
	Projects altering 10 or more acres of land, also submit:							
(d) Vegetation cover type map of site								
	(e) Project plans showing Priority & Estimated Habitat boundaries							
	(f) OR Check One of the Following							
Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10 http://www.mass.gov/dfwele/dfw/nhesp/regulatory review/mesa/mesa exemptions. the NOI must still be sent to NHESP if the project is within estimated habitat pursua 310 CMR 10.37 and 10.59.)								
	2. 🗌	Separate MESA review ongoing.	a. NHESP Tracking # b. Date submitted to	NHESP				
3. Separate MESA review completed. Include copy of NHESP "no Take" determination or valid Conservation & Manage Permit with approved plan.								
3.	For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?							
	a. Not applicable – project is in inland resource area only b. X 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 borde the Cape & Islands:								
	Southeast Attn: Envi 836 South New Bedf	f Marine Fisheries - Marine Fisheries Station ronmental Reviewer Rodney French Blvd. ord, MA 02744 MF.EnvReview-South@state.ma.us	Division of Marine Fisheries - North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: DMF.EnvReview-North@state.ma.us					

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



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

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1	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: Include your document		a. Tes 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.
transaction number		b. ACEC
(provided on your receipt page) with all	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?
supplementary information you		a. 🗌 Yes 🛛 No
submit 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:
		 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 second of the Full of the Park o
	Ш	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. Subsection of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)

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.

2.



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D. Additional Information (cont'd)

υ.	Add	itional information (conta)						
	3. 🛛	3. A Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.						
	4. 🛛	List the titles and dates for all plans and ot	her materials submitted with	this NOI.				
	a.P	lan Title						
		uis Berger						
		repared By	c. Signed and Stamped by					
	d. F	inal 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		3.00					
⊏.	rees							
	1.	 Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority. 						
		ants must submit the following information (ansmittal Form) to confirm fee payment:	in addition to pages 1 and 2	of the NOI Wetland				
	675		April 6, 2018					
	and the same of th	cipal Check Number	3. Check date					
	676		April 6, 2018					
		Check Number		5. Check date				
	Bernw	ard	Hay	Hay				

7. Payor name on check: Last Name

6. Payor name on check: First Name



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F. Signatures and Submittal Requirements

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

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

Description (D)	(R) 4/5/18	
1. Signature of Applicant	2. Date	
3. Signature of Property Owner (it different)	$\frac{4/5/8}{4. \text{Date}}$	
B.7. 74	4/10/2018	
5. Signature of Representative (if any)	6. Date	

For Conservation Commission:

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

For MassDEP:

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

Other:

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

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



Massachusetts Department of Environmental Protection

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NOI Wetland Fee Transmittal Form

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

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





۹.	Applicant Informa	tion			
	Location of Project:				
	Nantasket Beach:Nantaske	et Ave./Hull Shore Dr	Hull		
	a. Street Address		b. City/Town		
			\$262.50		
	c. Check number		d. Fee amount		
2.	Applicant Mailing Address:				
	Priscilla		Geigis		
	a. First Name		b. Last Name		
	Massachusetts Departmen	t of Conservation and R	ecreation (DC	R)	
	c. Organization				
	251 Causeway Street				
	d. Mailing Address				
	Boston			MA	02114
	e. City/Town			f. State	g. Zip Code
	617-626-4986	617-626-1370	Priscilla.Gei	gis@state.ma.us	
	h. Phone Number i	. Fax Number	j. Email Addres	s	
3.	Property Owner (if different	t):			
	Same as applicant; second	d owner: Hull			
	Redevelopment Authority)		b. Last Name		
	c. Organization				
	d. Mailing Address				
	e. City/Town			f. State	g. Zip Code

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

B. Fees

h. Phone Number

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

j. Email Address

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.

i. Fax Number

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.



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B. Fees (continued)			
Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 2, Beach Nourishment	1	\$500	\$500
	Step 5/To	otal Project Fee:	\$500
	Step 6/	Fee Payments:	
	Total	Project Fee:	\$500 a. Total Fee from Step 5
	State share	of filing Fee:	\$237.5 b. 1/2 Total Fee less \$12.50
	City/Town share	of filling Fee:	\$262.50 c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

> Department of Environmental Protection Box 4062 Boston, MA 02211

b.) To the Conservation Commission: Send the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

Attachment to WPA Form 3 – Notice of Intent

Project Location: Nantasket Beach: Nantasket Avenue / Hull Shore Drive

Town:

Hull, MA

Project Name:

Nantasket Beach Coastal Storm Damage Reduction Project

Phase 2: Beach Nourishment

Date:

April 2018

The project for the proposed project has two property owners:

1. Massachusetts Department of Conservation and Recreation (DCR)

Assessors Map 27: Parcels 27-054, 27-56, 27-057, 27-058, 27-059 Assessors Maps 33, 34, 37, 38, and 48: Parcel 37-010

Address:

DCR

251 Causeway Street Boston, MA 02114

2. Hull Redevelopment Authority (HRA)

Assessors Map 27: Parcels 27-061

Address:

Hull Redevelopment Authority Hull Town Hall 253 Atlantic Avenue Hull, MA 02045

Both Property owners signed the Chapter 91 license application and the Notice of Intent. See SECTION F with Signature by DCR on page 9 of 9 above, and the same page with the signature by the HRA on the following page.



WPA Form 3 – Notice of Intent

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

A	MassDEP File Number
E	Occument Transaction Numbe
ŀ	Hull
(City/Town

F. Signatures and Submittal Requirements

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

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

1. Signature of Applicant South Killy Vice Chang Hall Redembat	2. Date 4/8//5
3. Signature of Property Owner (if different)	4. Date
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

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

For MassDEP:

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

Othor

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.

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Attachment A

Project Narrative

As agreed with Chris Krahforst, Conservation Commission, the MEPA filing from March 15, 2018, will serve as the Project Narrative. One hardcopy and CD of the filing were submitted to the Commission on March 20, 2018. Another hardcopy (with CD in the back) are submitted herein. The MEPA filing includes supporting documents. Attached below are the Cover Page and the Table of Content of the MEPA filing.

Nantasket Beach Coastal Storm Damage Reduction Project Hull, MA

Phase 2: Beach Nourishment

Massachusetts Environmental Policy Act: Expanded Notice of Project Change

EEA# 12688





Massachusetts Department of Conservation and Recreation

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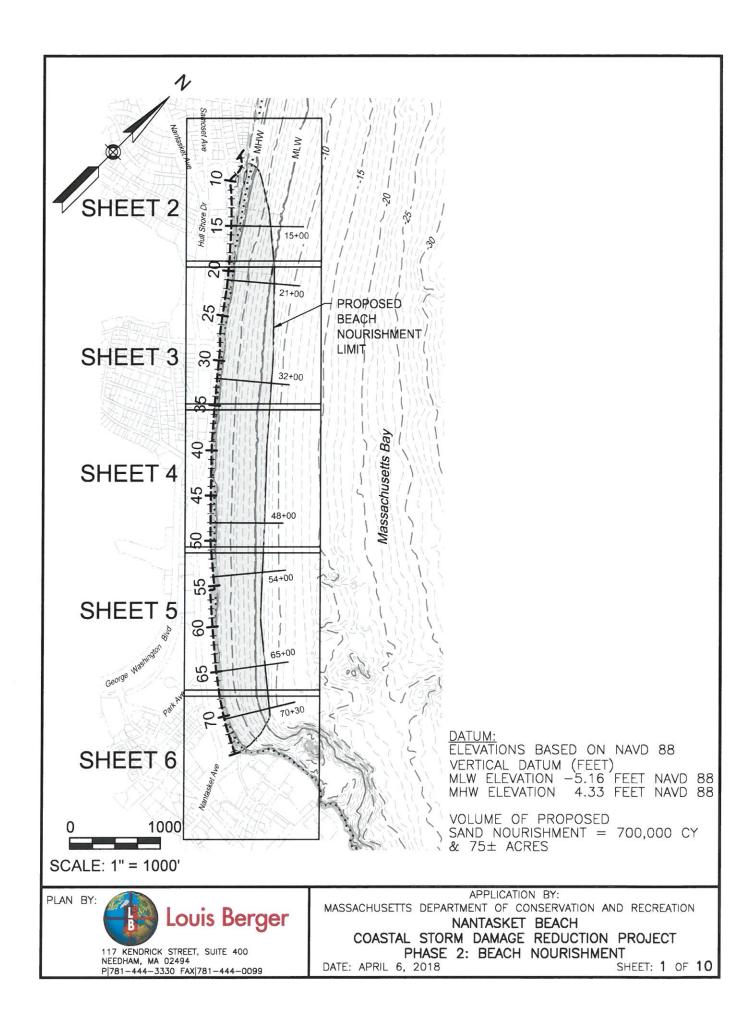
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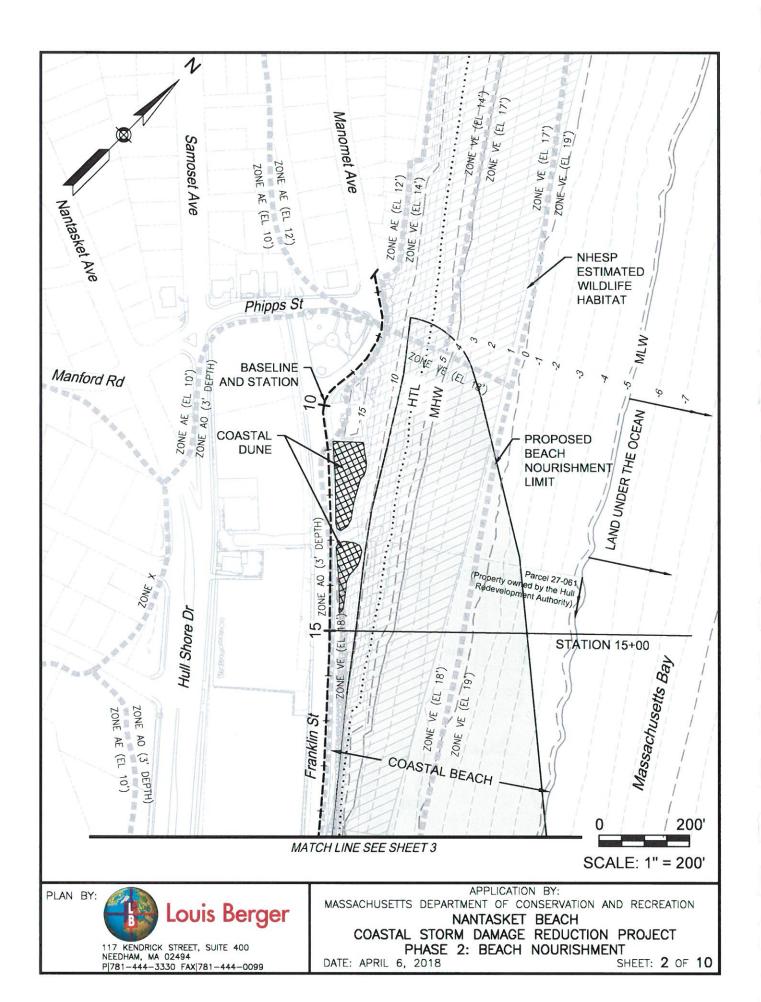
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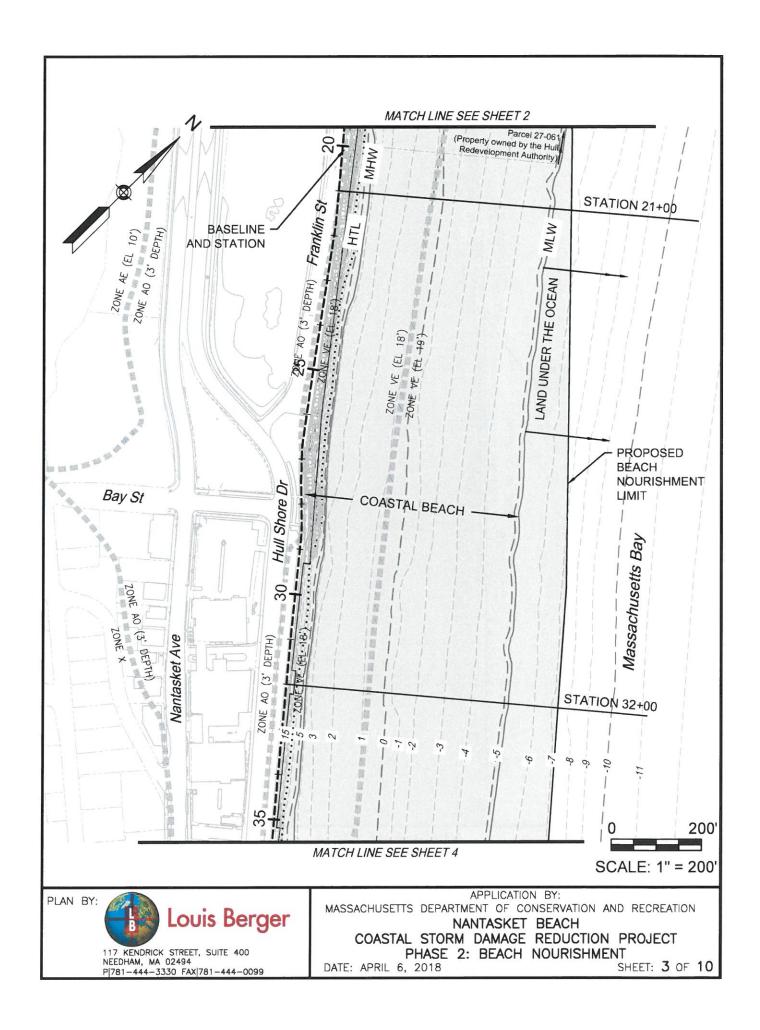
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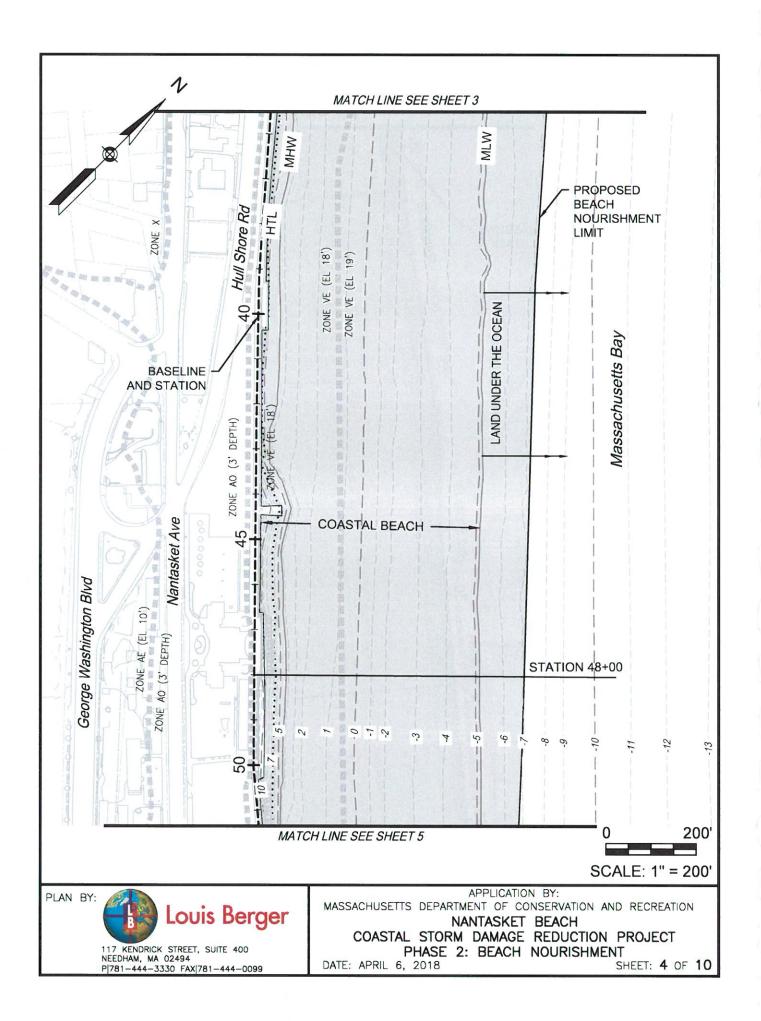
Project Plans

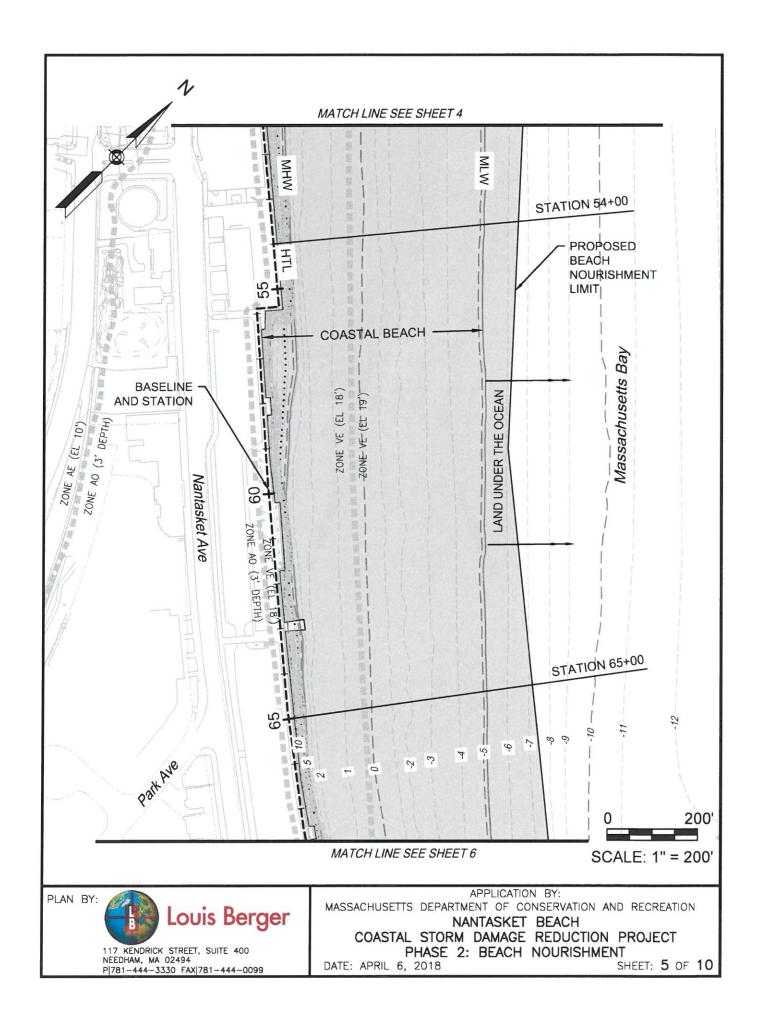
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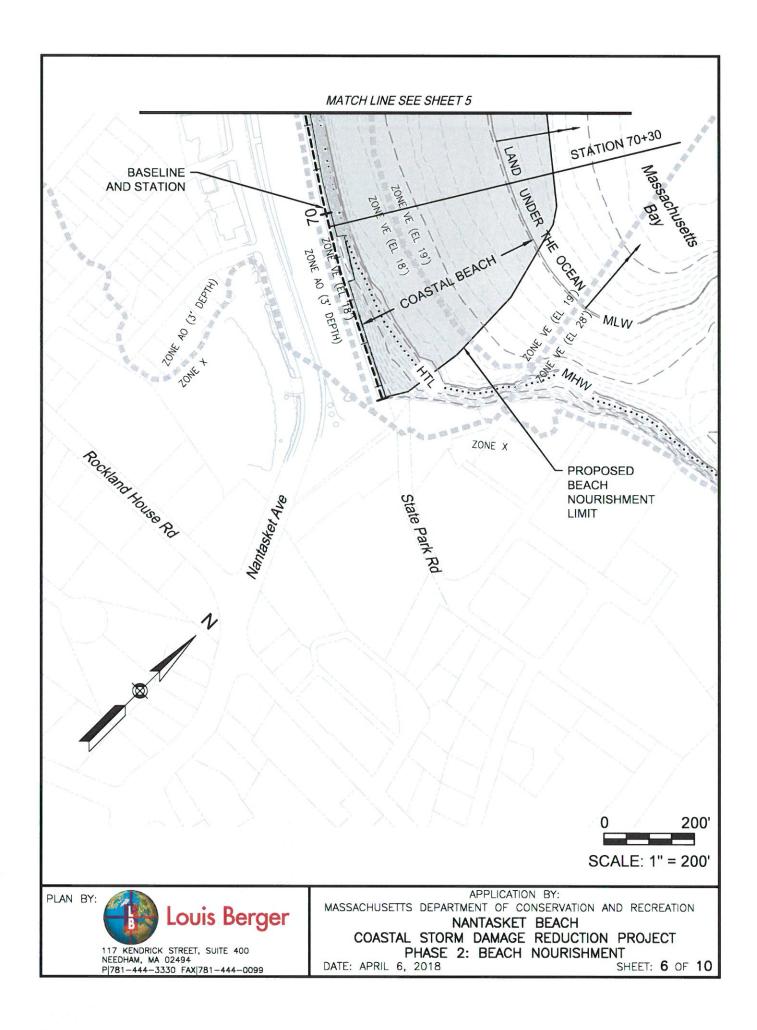


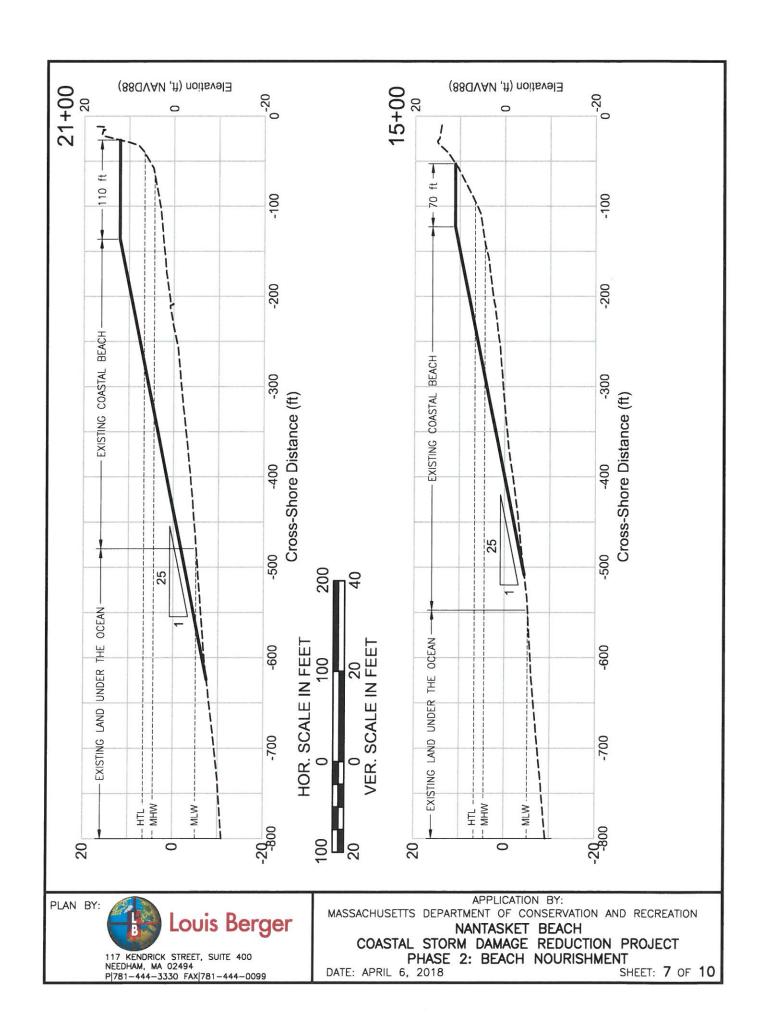


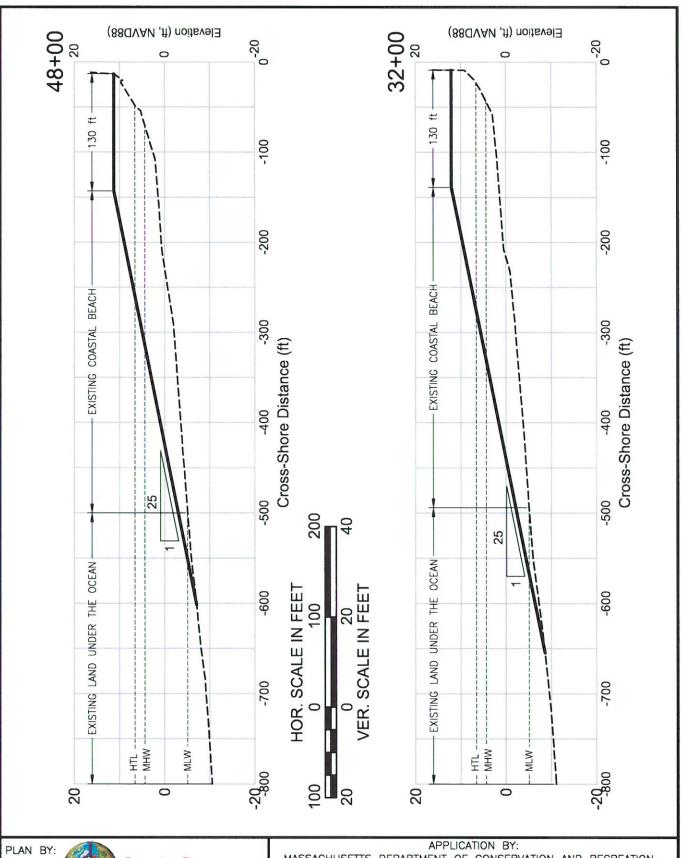














117 KENDRICK STREET, SUITE 400 NEEDHAM, MA 02494 P]781-444-3330 FAX|781-444-0099

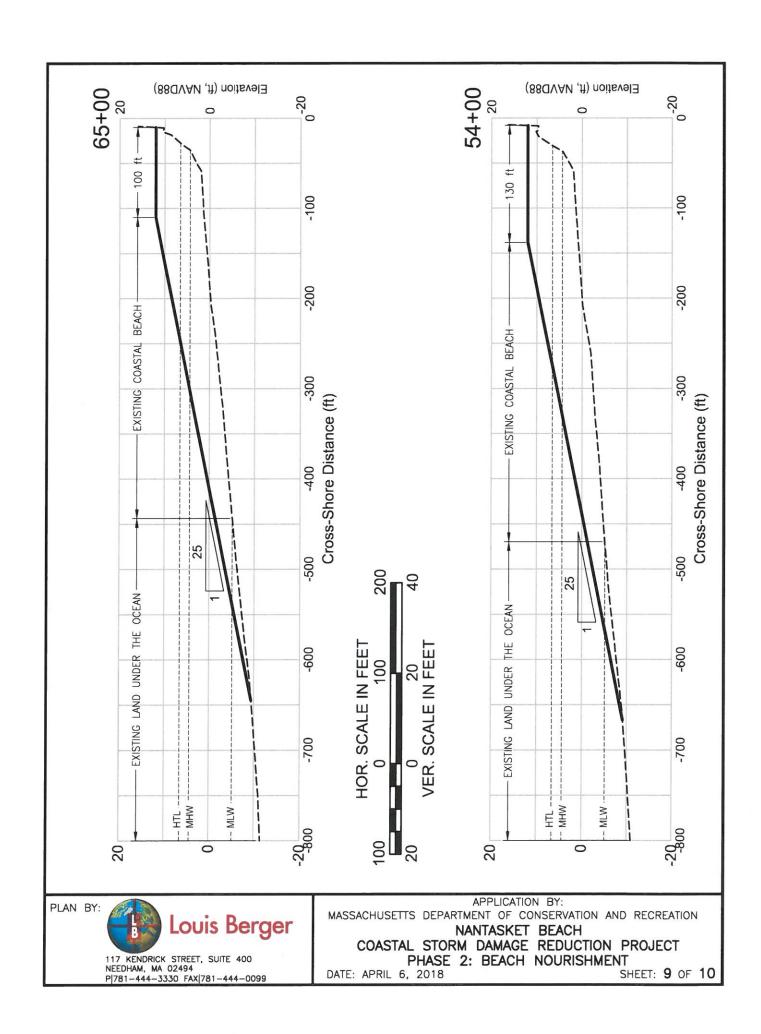
MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION

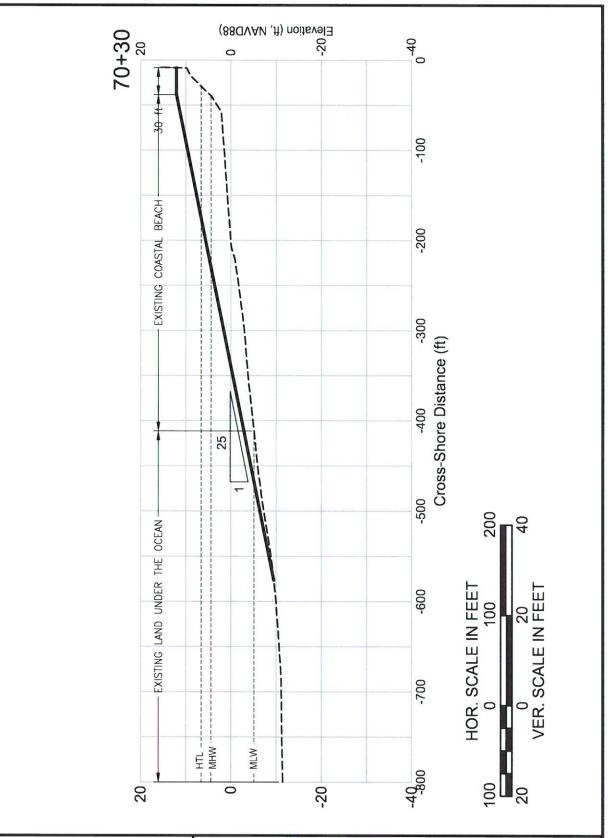
NANTASKET BEACH

COASTAL STORM DAMAGE REDUCTION PROJECT PHASE 2: BEACH NOURISHMENT

DATE: APRIL 6, 2018

SHEET: 8 OF 10





PLAN BY:



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APPLICATION BY:

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION

NANTASKET BEACH

COASTAL STORM DAMAGE REDUCTION PROJECT
PHASE 2: BEACH NOURISHMENT
DATE: APRIL 6, 2018 SHEET: 10 OF 10

Attachment C

Massachusetts Endangered Species Act (MESA) review

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Nantasket Beach Coastal Storm Damage Protection Project Phase 2: Beach Nourishment

Massachusetts Endangered Species Act (MESA) review

1. Project Description Narrative

The Nantasket Beach Coastal Storm Damage Reduction Project is located at DCR's Nantasket Beach Reservation (Reservation) in the Town of Hull, Plymouth County, Massachusetts. The Reservation is located along the southerly 6,800-foot (ft) long portion of the elongated peninsula in Hull that extends SE-NW into Massachusetts Bay. Beginning at its southern end, the Reservation contains a 5,400-ft long concrete seawall. The northern 1,400-ft end of the Reservation contains a rip rap revetment that transitions to an area of coastal dune and beach.

Gradual erosion over time as a result of storm-driven waves from the east has resulted in a loss of beach material in front of the concrete seawall and consequent lowering of the beach elevation. As an example, beach elevation surveys conducted by DCR since 2006 show a gradual loss in beach elevation along the mid-section of the seawall. This has left the existing seawall vulnerable to damage and upland properties subject to an increased risk of storm damage and flooding due to overtopping during coastal storms. This increased flood risk and storm damage threatens public, commercial, and residential properties located landward of the seawall.

The Nantasket Beach Coastal Storm Damage Reduction Protection Project work is proposed in two phases; Phase 1 included repairs to the seawall (currently underway) and Phase 2 included the placement of up to 700,000 cubic yards (cy) of material along the entire 6,800-ft long Reservation property, impacting approximately 75 acres of coastal beach and land under the ocean.

The source of the initial volume of nourishment material (up to approximately 300,000 cy) is the U.S. Army Corps of Engineers' Piscataqua River dredging project on the border of Maine and New Hampshire. The source has been assessed for physical and chemical characteristics and has been found suitable for nourishing Nantasket Beach. Dredging may occur as early as October 15, 2018.

Future nourishments as part of this Phase 2 project (both to add to the initially placed volume from the Piscataqua River site and to renourish the beach after erosion of placed material) would depend on available sources of suitable material. Options would include other dredging projects and upland sources. Sediments would be assessed for their physical and chemical suitability prior to placement.

The maximum volume of nourishment material at the beach at any given time under this Phase 2 project would not exceed 700,000 cy. The maximum footprint of the project would not exceed 75 acres.

2. Project Impacts

The high tide beach recreated by the beach fill along Nantasket Beach would substantially enlarge potential habitat for Piping Plover along Nantasket Beach. Currently, a high tide beach no longer exists along much of Nantasket Beach. The proposed project would be built with nearshore slopes of 1V:25H and which would not impair the ability of the birds to cross the beach. Additionally, beach grass planting and sand fencing are not proposed. This would allow the birds to move freely through the new expanded habitat.

Attached please find the following:

- Figure 1 Project LocationFigures 2 to 9 Project site photos
- Figure 10 Proposed Nourishment footprint and estimated NHESP habitat
- Tax Forms



Figure 1. Project location (Scale: 1 inch = approximately 2,000 feet) Source of map: USGS





Figures 2 and 3. Seawall along the southern section of the seawall with toe protection, at low tide (top) and high tide (bottom). The high tide beach has been lost along the southern and mid-sections of the seawall because of long-term erosion.





Figures 4 and 5. Seawall along the mid-section of the seawall, still without toe protection (which is now under construction), at low tide (top) and high tide (bottom)





Figures 6 and 7. Shore protection along the northern section of the seawall at low tide facing north (top), and at high tide facing south (bottom)





Figures 8 and 9. View of the northern end of the Reservation toward the potential habitat for Piping Plover along the 1,400-ft long section of riprap revetment with coastal dune and wider beach, facing north. *Top:* Just beyond the seawall. *Bottom:* Northernmost tip of the Reservation.

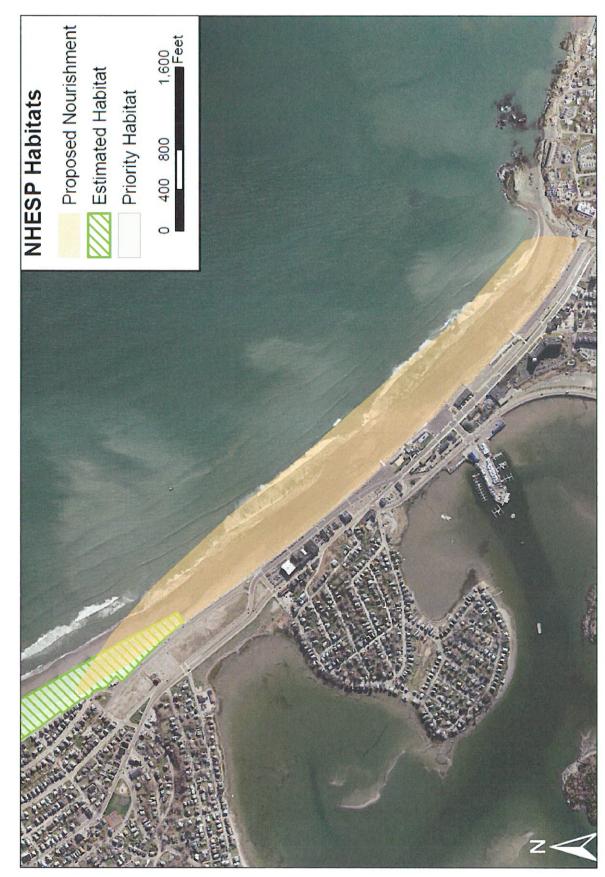


Figure 10. Proposed Nourishment footprint and estimated NHESP habitat

Tax Maps

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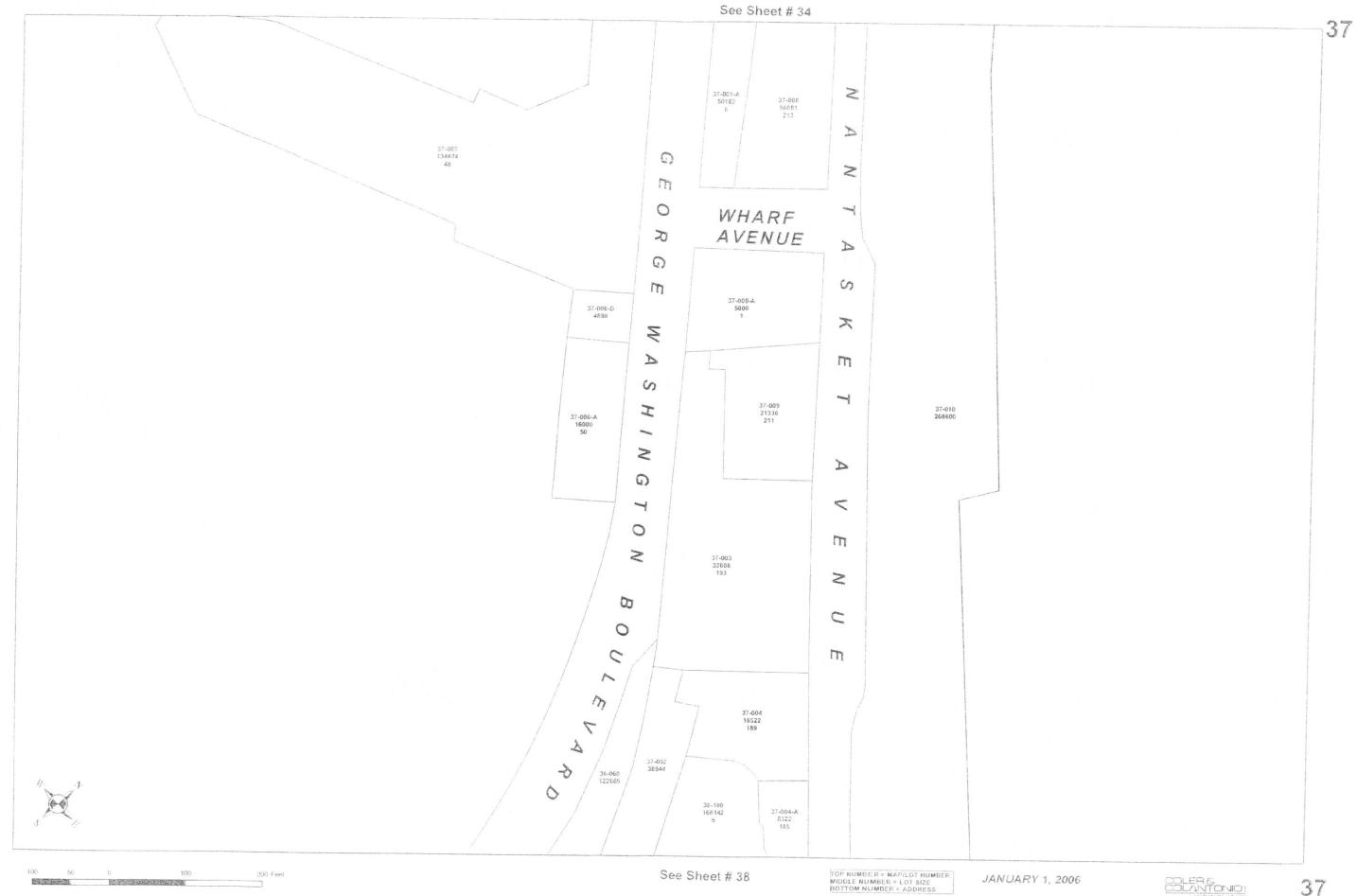
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JANUARY 1, 2006

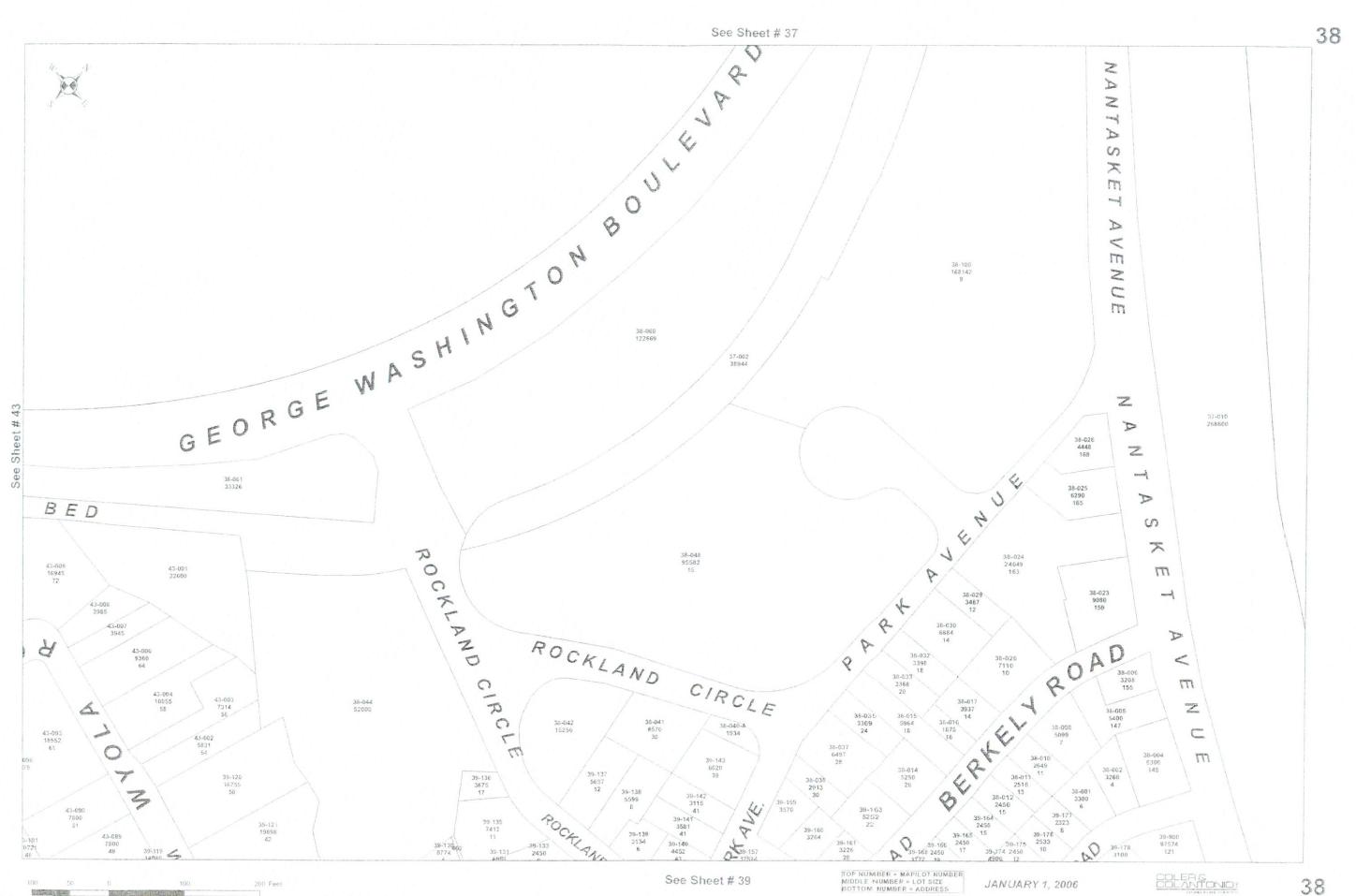
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JANUARY 1, 2006



Attachment D

Letter from Massachusetts Board of Underwater Archaeological Resources

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The Commonwealth of Massachusetts BOARD OF UNDERWATER ARCHAEOLOGICAL RESOURCES

EXECUTIVE OFFICE OF ENERGY AND ENVIRONMENTAL AFFAIRS 251 Causeway Street, Suite 800, Boston, MA 02114-2136

Tel. (617) 626-1141 Fax (617) 626-1240 Web Site: https://www.mass.gov/orgs/board-of-underwater-archaeological-resources

March 20, 2018

Bernward Hay Louis Berger US, Inc. 117 Kendrick Street, Suite 400 Needham, MA 02494

Nantasket Beach, Nourishment, Nantasket Beach, Hull, MA RE:

Dear Mr. Hay,

The staff of the Massachusetts Board of Underwater Archaeological Resources (BUAR) has reviewed the above referenced project's MHC PNF and by Louis Berger US, Inc., on behalf of the Town of Hull, MA. We offer the following comments.

The Board has conducted a preliminary review of its files and secondary literature sources to identify known and potential submerged cultural resources in the proposed project areas along Nantasket Beach in the Town of Hull (MA). No record of any underwater archaeological resources was found for the area proposed for beach nourishment (sediment disposal). Based on the results of this review and the nature of sediment placement, the Board expects that this project is unlikely to impact submerged cultural resources.

However, the Board cannot conclude that there are no submerged cultural resources in the proposed project area. The historical record indicates the high occurrence of shipwrecks in the vicinity for which locations are ambiguous and vague. For example, the Board staff has investigated a previously unknown shipwreck on Nantasket Beach near Kenberma Street (north of your project area). Furthermore, the loss of earlier and smaller coastal vessels and the purposeful abandonment of obsolete or damaged vessels are generally not found in the documentary record. In addition, the area may be considered inundated land formations and as such there exists the possibility for the preservation of now submerged ancient Native American cultural resources. However, the dynamic processes along the beach in this area may have diminished the potential for the preservation of those sites.

Given the proximity to known and potential historic archaeological sites, the Board considers the vicinity to be highly archaeologically sensitive. Therefore, should heretofore-unknown submerged cultural resources be encountered during the course of the project, the Board expects that the project's sponsor will take steps to limit adverse affects and notify the Board, as well as other appropriate agencies, immediately in accordance with the Board's Policy Guidance for the Discovery of Unanticipated Archaeological Resources.

The Board appreciates the opportunity to provide these comments as part of the review process. Should you have any questions regarding this letter, please do not hesitate to contact me at the address above, by email at victor.mastone@state.ma.us, or by telephone at (617) 626-1141.

Sincerely,

Victor T. Mastone

Director

/vtm

Cc: Brona Simon, MHC

Robert Boeri, MCZM (via email attachment)



THE COMMONWEALTH OF MASSACHUSETTS

EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
OFFICE OF COASTAL ZONE MANAGEMENT
251 CAUSEWAY STREET, SUITE 800, BOSTON, MA 02114-2136

BOSTON MA 021 20 MAR '18 FM 4 L



RECEIVED 3/22/2018

Bernward Hay Louis Berger US, Inc. 117 Kendrick Street, Suite 400 Needham, MA 02494

02494-279900

C.

A CONTRACTOR OF THE PARTY OF TH

Attachment E

Proof of Mailing of NOI

- Massachusetts Division on Fish and Wildlife, North Shore Office
- Natural Heritage and Endangered Species Program

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