

May 5, 2021

Michael Parker, Chair Boston Conservation Commission 1 City Hall Square, Room 709 Boston, MA 02201

Re: Notice of Intent – Constitution Beach Playground Renovation
Off Coleridge Street and Barnes Avenue, Boston MA

Dear Mr. Parker and Commissioners:

On behalf of the Massachusetts Department of Conservation and Recreation (DCR), BETA Group, Inc. (BETA) is submitting a Notice of Intent (NOI) for proposed improvements to the Constitution Beach playground. Improvements include the reconfiguration and resurfacing the playground area, installation of new play equipment, reconfiguration of bituminous walkways, construction of new cement walkways, minor grading, and planting of native vegetation. The proposed improvements will provide improved accessibility pursuant to the Americans With Disabilities Act and are also anticipated to maintain and improve the functions of Coastal Dune and Land Subject to Coastal Storm Flowage.

Work associated with the Project will take place within Areas Subject to Jurisdiction and Protection under the Massachusetts Wetlands Protection Act (M.G.L. ch.131 s.40) and its Regulations at 310 CMR 10.00 (the Act), as well as the City of Boston Wetlands Protection and Climate Adaptation Ordinance (Chapter 7-1.3) (the Ordinance). The Project has been designed to comply with the Ordinance to the maximum extent practicable. Although DCR is not subject to local bylaws and ordinances as a state agency, the Department has traditionally made every attempt to comply with the local bylaw/ordinance where practicable and economically feasible.

This NOI has been concurrently submitted to the Massachusetts Department of Environmental Protection (MassDEP) Northeast Regional Office, along with a check in the amount of \$237.50 for the State's portion of the \$500 Act fee. A check to cover the City's portion of the Act fee in accordance with the Ordinance provisions (\$521.25) has been included in this filing. The local filling fee has not been included with the Application, however, DCR will comply with all other local filling requirements. In accordance with Section 7-1.4(b) of the Ordinance, abutters within 300 feet of the Project Locus must be notified due to the total site area exceeding 50 acres. Abutter notification has been undertaken in accordance with this provision and includes notification in both English and Spanish, as well as the Babel translation resources informational card.

We trust that the following application provides adequate information to facilitate the issuance of an Order of Conditions. Should you have any additional questions, please do not hesitate to contact us.

Michael Parker, Chair May 5, 2021 Page 2 of 2

Very truly yours, **BETA Group, Inc.**

Jonathan Niro

cc:

Environmental Scientist

Sandra P. Libby, M.Ed., CPSI

Scott Ridder, RLA

MassDEP NERO, Division of Wetlands

Job No: 20.07341.00





Constitution Beach Renovation

Massachusetts Department of Conservation and Recreation May 2021

NOTICE OF INTENT



Constitution Beach Proposed Playground Improvements

Boston, Massachusetts

Massachusetts Department of Conservation and Recreation

NOTICE OF INTENT

Prepared by: BETA GROUP, INC.

Prepared for: Massachusetts Department of Conservation and Recreation

May 2021

TABLE OF CONTENTS

WPA FORM 3 – NOTICE OF INTENT CITY OF BOSTON FILING FORMS ABUTTERS INFORMATION

PROJECT NARRATIVE

1.0 Introduction	1
2.0 Site Description	1
2.1 Project Locus	1
3.0 Existing Conditions	1
3.1 Wetland Resource Areas	1
3.1.1 Land Subject to Coastal Storm Flowage (310 CMR 10.04)	2
3.1.2 Coastal Beach (310 CMR 10.27) & Coastal Dune (310 CMR 10.28)	2
3.1.3 Waterfront Area (Section 7-1.4)	2
3.2 Buffer Zones	3
3.3 NHESP-Mapped Habitat and Other Sensitive Areas	3
4.0 Work Description	3
4.1 Work within Jurisdictional Areas	3
4.1.1 Work within Wetlands Protection Act Resource Areas	4
4.1.1.1 Land Subject to Coastal Storm Flowage (310 CMR 10.04)	4
4.1.1.2 Coastal Dune (310 CMR 10.28)	2
4.1.2 Work within Boston Wetlands Protection and Climate Adaptation Ordinance Resour	ce Areas 4
4.1.2.1 Waterfront Area (Section 7-1.4)	4
4.2 Work in Buffer Zones	5
5.0 Mitigation Measures	5
5.1 Erosion and Sedimentation Controls	5
5.2 Water Controls and Dewatering	5
5.3 Coastal Dune Restoration	5
5.4 Stormwater Management	ε
5.5 Spill Containment	ε
6.0 Regulatory Compliance	ε
6.1 Massachusetts Wetlands Protection Act Regulations – 310 CMR 10.00	ε
6.1.1 Land Subject to Coastal Storm Flowage – General Performance Standards	6
6.1.2 Coastal Dune – General Performance Standards	
6.1.3 100' Buffer Zone	8
6.2 City of Boston Wetlands Protection and Climate Adaptation Ordinance	8



6.2.1 Waterfront Area	8
7.0 Climate Statement	
7.0 Climate Statement	C
8 O Summary	C

LIST OF FIGURES

Figure 1 Site Locus

Figure 2 Environmental Resources

Figure 3 FEMA FIRMette

PHOTOGRAPHIC DOCUMENTATION

LIST OF APPENDICES

Appendix A Resource Area Delineation Report

Appendix B Project Plans

Appendix C Stormwater Management Report



WPA FORM 3 – NOTICE OF INTENT





Massachusetts Department of Environmental ProtectionBureau 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

Boston

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	
------------------------	--

Off Coleridge Street & Barnes Avenue	Boston	02128
a. Street Address	b. City/Town	c. Zip Code
Latitude and Langitude:	42.384158	-71.010744
Latitude and Longitude:	d. Latitude	e. Longitude
	Parcel ID 01043870	002
f. Assessors Map/Plat Number	g. Parcel /Lot Number	
Applicant:		
Sandra P.	Libby, M.Ed., CP	SI
a. First Name	b. Last Name	
Department of Conservation and Recreation c. Organization		
251 Causeway Street, Suite 600		
d. Street Address Boston	MA	02114
e. City/Town	f. State	g. Zip Code
978-407-6307	sandra.libby@mass.gov	• ,
h. Phone Number i. Fax Number	i. Email Address	<u> </u>
Commonwealth of Massachusetts	Geigis b. Last Name	
c. Organization 251 Causeway Street, Suite 600		
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address	b. Last Name	
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston	b. Last Name	02114
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston	b. Last Name MA f. State	g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town	b. Last Name MA f. State priscilla.geigis@mass.g	g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number i. Fax Number	b. Last Name MA f. State	g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any):	b. Last Name MA f. State priscilla.geigis@mass.g j. Email address	g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any): Laura	b. Last Name MA f. State priscilla.geigis@mass.g	g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any): Laura a. First Name	b. Last Name MA f. State priscilla.geigis@mass.g j. Email address Krause	g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any): Laura a. First Name BETA Group, Inc.	b. Last Name MA f. State priscilla.geigis@mass.g j. Email address Krause	g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any): Laura a. First Name BETA Group, Inc. c. Company	b. Last Name MA f. State priscilla.geigis@mass.g j. Email address Krause	g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any): Laura a. First Name BETA Group, Inc. c. Company 89 Shrewsbury Street	b. Last Name MA f. State priscilla.geigis@mass.g j. Email address Krause	g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any): Laura a. First Name BETA Group, Inc. c. Company 89 Shrewsbury Street d. Street Address	b. Last Name MA f. State priscilla.geigis@mass.g j. Email address Krause	g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any): Laura a. First Name BETA Group, Inc. c. Company 89 Shrewsbury Street d. Street Address Worcester	b. Last Name MA f. State priscilla.geigis@mass.g j. Email address Krause b. Last Name	g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any): Laura a. First Name BETA Group, Inc. c. Company 89 Shrewsbury Street d. Street Address Worcester e. City/Town	b. Last Name MA f. State priscilla.geigis@mass.g j. Email address Krause b. Last Name	g. Zip Code OV 01604 g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any): Laura a. First Name BETA Group, Inc. c. Company 89 Shrewsbury Street d. Street Address Worcester e. City/Town 774-258-1230	b. Last Name MA f. State priscilla.geigis@mass.g j. Email address Krause b. Last Name	g. Zip Code OV 01604 g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any): Laura a. First Name BETA Group, Inc. c. Company 89 Shrewsbury Street d. Street Address Worcester e. City/Town 774-258-1230 h. Phone Number i. Fax Number	MA f. State priscilla.geigis@mass.g j. Email address Krause b. Last Name MA f. State Ikrause@BETA-Inc.com j. Email address	g. Zip Code OV 01604 g. Zip Code
Commonwealth of Massachusetts c. Organization 251 Causeway Street, Suite 600 d. Street Address Boston e. City/Town h. Phone Number Representative (if any): Laura a. First Name BETA Group, Inc. c. Company 89 Shrewsbury Street d. Street Address Worcester e. City/Town 774-258-1230	MA f. State priscilla.geigis@mass.g j. Email address Krause b. Last Name MA f. State lkrause@BETA-Inc.com j. Email address Transmittal Form):	g. Zip Code OV 01604 g. Zip Code



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

rov	rided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Boston
	City/Town

A. General Information (continued)

6. General Project Description:

The Massachusetts Department of Conservation and Recreation proposes to construct playground improvements at the Constitution Beach playground off of Coleridge Street and Barnes Avenue in Boston (the Project). The Project will involve the reconfiguration and resurfacing of the playground

		uration of bituminous walkways, construction of new native vegetation. Work will take place within Land une, as well as the Buffer Zone to Coastal Dune
7a.	Project Type Checklist: (Limited Project Types se	e Section A. 7b.)
	1. Single Family Home	2. Residential Subdivision
	3. Commercial/Industrial	4. Dock/Pier
	5. Utilities	6. Coastal engineering Structure
	7. Agriculture (e.g., cranberries, forestry)	8. Transportation
	9. 🛛 Other	
7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Exestoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland 1. Yes No No No 10.24 and 10.53 for a complete list and description of limited project.		10.24 (coastal) or 310 CMR 10.53 (inland)? ited project applies to this project. (See 310 CMR
	2. Limited Project Type If the proposed activity is eligible to be treated as CMR10.24(8), 310 CMR 10.53(4)), complete and Project Checklist and Signed Certification.	an Ecological Restoration Limited Project (310 attach Appendix A: Ecological Restoration Limited
8.	Property recorded at the Registry of Deeds for:	
	Suffolk	
	a. County	b. Certificate # (if registered land)
	7128	104
	c. Book	d. Page Number
В.	Buffer Zone & Resource Area Imp	Dacts (temporary & permanent)
1. 2.	 □ Buffer Zone Only – Check if the project is local Vegetated Wetland, Inland Bank, or Coastal Foundation □ Inland Resource Areas (see 310 CMR 10.54-Coastal Resource Areas). 	Resource Area.
	Check all that apply below. Attach narrative and a project will meet all performance standards for each	

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.

Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

rov	rided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Boston
	City/Town

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

Resour	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
а. 🗌	Bank	1. linear feet	2. linear feet
b. 🗌	Bordering Vegetated Wetland	1. square feet	2. square feet
с. 🗌	Land Under Waterbodies and	1. square feet	2. square feet
	Waterways	3. cubic yards dredged	
Resour	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. 🗌	Bordering Land Subject to Flooding	1. square feet	2. square feet
		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) - spec	cify coastal or inland
2.	2. Width of Riverfront Area (check one):		
☐ 25 ft Designated Densely Developed Areas only			
	☐ 100 ft New agricult	ural 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: 4. Proposed alteration of the Riverfront Area:			Square reet
	•		
a. 1	total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
5.	Has an alternatives analysi	s been done and is it attached to thi	is NOI? Yes No
6.	Was the lot where the activ	ity is proposed created prior to Aug	ust 1, 1996? ☐ Yes ☐ No
⊠ Co.	antal Danauran Arana (Can	240 CMD 40 25 40 25)	

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

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



Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

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

rov	ided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Boston
	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.

	Resou	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
	а. 🗌	Designated Port Areas	Indicate size under Land Under	er the Ocean, below
	b. 🗌	Land Under the Ocean	1. square feet	-
			2. cubic yards dredged	-
	с. 🗌	Barrier Beach	Indicate size under Coastal Bea	aches and/or Coastal Dunes below
	d. 🗌	Coastal Beaches	1. square feet	2. cubic yards beach nourishment
	e. 🛚	Coastal Dunes	551 sf (permanent) 4,188 sf (restoration)	0 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		nks, inland Bank, Land Under the der Waterbodies and Waterways,
	I. 🔀	Land Subject to Coastal Storm Flowage	1. cubic yards dredged 164 1. square feet	-
4.	☐ Re	estoration/Enhancement	., 0444.0.000	
		footage that has been en	f restoring or enhancing a wetland tered in Section B.2.b or B.3.h abo	
	a. squar	e feet of BVW	b. square feet of	Salt Marsh
5.	☐ Pr	oject Involves Stream Cros	ssings	
	a. numb	er of new stream crossings	b. number of rep	lacement stream crossings



Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

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

Prov	ided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Boston
	City/Town

		Boston	
		City/Town	
C.	Other Applicable Standards and	Requirements	
	This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).		
Str	reamlined Massachusetts Endangered Spec	cies Act/Wetlands Protection Act Review	
 Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicat the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the Massachusetts Natural Heritage Atlas or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm. 			
	a. Yes No If yes, include proof of a	mailing or hand delivery of NOI to:	
	August 2017 b. Date of map Natural Heritage and E Division of Fisheries a 1 Rabbit Hill Road Westborough, MA 015		
	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 NO 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 Endanger	red Species Review*	
	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	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 **		

Project description (including description of impacts outside of wetland resource area &

Photographs representative of the site

(a)

buffer zone)

wpaform3.doc • rev. 6/18/2020 Page 5 of 9

^{*} Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see https://www.mass.gov/maendangered-species-act-mesa-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.



3.

Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

rovided by MassDEP:			
MassDEP File Number			
Document Transaction Number			
Boston			
City/Toyen			
City/Town			

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

Make o	(c) MESA filing fee (fee information available at https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review). Make check payable to "Commonwealth of Massachusetts - NHESP" and <i>mail to NHESP</i> at above address			
Projects	s altering 10 or more acres of land, also subn	nit:		
(d)	Vegetation cover type map of site			
(e)	Project plans showing Priority & Estimat	ed Habitat boundaries		
(f) OF	R Check One of the Following			
1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10. https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat ; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)				
2. 🗌	Separate MESA review ongoing.	a. NHESP Tracking # b. Date submitted to NHESP		
3.	Separate MESA review completed. Include copy of NHESP "no Take" deter Permit with approved plan.	mination or valid Conservation & Management		
For coastal		sed project located below the mean high water		
a. Not applicable – project is in inland resource area only b. Yes No				
If yes, inclu	de proof of mailing, hand delivery, or elec	ctronic delivery of NOI to either:		
South Shore - Cohasset to Rhode Island border, and the Cape & Islands: North Shore - Hull to New Hampshire border:				
Division of Marine Fisheries - Southeast Marine Fisheries Station Attn: Environmental Reviewer 836 South Rodney French Blvd. New Bedford, MA 02744 Email: dmf.envreview-south@mass.gov Division of Marine Fisheries - North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: dmf.envreview-north@mass.gov				
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.				
c.	his an aquaculture project?	d. 🗌 Yes 🛛 No		
If yes, inclu	ide a copy of the Division of Marine Fishe	ries Certification Letter (M.G.L. c. 130, § 57).		

wpaform3.doc • rev. 6/18/2020 Page 6 of 9



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

rovic	led by MassDEP:
N	MassDEP File Number
	Occument Transaction Number
E	Boston
C	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. \square Yes \boxtimes 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: 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 Subject the Subject to Subject

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.



Massachusetts Department of Environmental ProtectionBureau 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		
Boodinont Transaction Hambon		
Boston		
City/Town		

D.

D.	D. Additional Information (cont'd)				
	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 oth	er materials submitted with	this NOI.	
	Co	nstitution Beach Playground Renovation Bos	ton, Massachusetts Permit	Set	
		lan Title			
		TA Group, Inc.	Scott T. Ridder, RLA		
		repared By	c. Signed and Stamped by		
		ril 2021 inal Revision Date	As Noted e. Scale		
	u. r	Irial Revision Date	e. Scale		
	f. Ad	dditional Plan or Document Title		g. Date	
	5.	If there is more than one property owner, ple listed on this form.	ease attach a list of these p	property owners not	
	6. 🗌	Attach proof of mailing for Natural Heritage	and Endangered Species I	Program, if needed.	
	7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.			, if needed.	
	8. Attach NOI Wetland Fee Transmittal Form				
	9. Attach Stormwater Report, if needed.				
Ε.	Fees				
	1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district				
	 Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing 			•	
	authority, or the Massachusetts Bay Transportation Authority.				
	Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland				
	Fee Transmittal Form) to confirm fee payment:				
	103955		4/15/2021		
		pal Check Number	3. Check date		
	103957	Check Number	4/15/2021 5. Check date		
	Frank	SHECK MAILING!			
		name on check: First Name	Romeo 7. Payor name on check: L	ast Name	
	0. I ayof flame of check. I list Name				

wpaform3.doc • rev. 6/18/2020 Page 8 of 9



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

rov	rided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Boston
	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.

Sandra Libby Playground Planner DCR	4-28-21
1. Signature of Applicant	2. Date
3. Signature of Property Owner (if different)	4. Date
BETA Group, Inc. Felly Class	4-27-2021
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

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

For MassDEP:

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

Other:

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

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



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

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

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





Α.	Applicant Information		
1.	Location of Project:		
	Off Coleridge Street and Barnes Avenue	Boston	
	a. Street Address	b. City/Town	
	103957	\$237.50	
_	c. Check number	d. Fee amount	
2.	Applicant Mailing Address:		
	Sandra P.	Libby, M.Ed., CPSI	
-	a. First Name	b. Last Name	
	Department of Conservation and Recreation		
	c. Organization		
	251 Causeway Street, Suite 600		
	d. Mailing Address		
	Boston	MA	02114
-	e. City/Town	f. State	g. Zip Code
	978-407-6307	sandra.libby@mass.gov	
-	h. Phone Number i. Fax Number	j. Email Address	
3.	Property Owner (if different):		
	Priscilla	Geigis	
-	a. First Name	b. Last Name	
	Commonwealth of Massachusetts		
-	c. Organization		
	251 Causeway Street, Suite 600		
	d. Mailing Address		
	Boston	MA	02114
-	e. Citv/Town	f. State	a. 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.*

priscilla.geigis@mass.gov

i. 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.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

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

B. Fees (continued)			
Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Cat. 2j. (Other - Playground Reconstruction)	1 	\$500	\$500
		otal Project Fee: /Fee Payments:	\$500
	Step of	i ee i ayiileilis.	4=00
		Project Fee: of filing Fee:	\$500 a. Total Fee from Step 5 \$237.50
	City/Town shar	-	b. 1/2 Total Fee less \$12.50 \$521.25 (In accordance with Ordinance provisions) 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.)

CITY OF BOSTON FILING FORMS



City of Boston Environment

NOTICE OF INTENT APPLICATION FORM

Boston Wetlands Ordinance City of Boston Code, Ordinances, Chapter 7-1.4 Boston File Number

MassDEP File Number

A. GENERAL INFORMATION

1. Project Loca	tion		
Off Barnes Avenu	ue and Coleridge Stree	t Boston	02127
a. Street Address		b. City/Town	c. Zip Code
		Parcel ID 010	4387002
f. Assessors Map/Pl	at Number	g. Parcel /Lot Nu	mber
2. Applicant			
Sandra P.	Libby, M.Ed., CPSI	Department	of Conservation and Recreation
a. First Name	b. Last Name	c. Company	
250 Causeway S	Street, Suite 600		
d. Mailing Address			
Boston		MA	02114
e. City/Town		f. State	g. Zip Code
978-407-6307		sandra.libby@ı	mass.gov
h. Phone Number	i. Fax Number	j. Email address	
3. Property Ow Priscilla a. First Name	rner Geigis b. Last Name	Commonwe c. Company	alth of Massachusetts
250 Causeway S	treet, Suite 600		
d. Mailing Address			
Boston		MA	02114
e. City/Town		f. State	g. Zip Code
		priscilla.geigis@ma	ass.gov
h. Phone Number	i. Fax Number	j. Email address	
	ore than one owner ne property owner, please attac	h a list of these property own	ners to this form.)
4. Representati			
Laura	Krause	BETA Grou	ın İnc
a. First Name	b. Last Name	c. Company	ι ρ , πιο.
89 Shrewsbury St	treet. Suite 300		
d. Mailing Address			
Worcester		MA	01604
e. City/Town		f. State	g. Zip Code

Ikrause@BETA-Inc.com

j. Email address

774-258-1230

i. Fax Number

h. Phone Number

City of Boston Environment

NOTICE OF INTENT APPLICATION FORM

Boston File Number

Boston Wetlands Ordinance City of Boston Code, Ordinances, Chapter 7-1.4

MassDEP File Number

				ortion of the propo ion Act M.G.L. c. 13		diction	ıal u	nder the Massachusetts Wetlands					
		X Y	Yes					□ No					
	If yes, please file the WPA Form 3 - Not						ith t						
	•												
	6.	eral	Information										
<u>i</u>	mpro	ion proposes to construct playground leridge Street and Barnes Avenue in											
	Boston (the Project). The Project will involve the reconfiguration and resurfacing of the playground area, installation of new play equipment, reconfiguration of bituminous walkways, construction of new cement walkways, minor grading, and planting of native vegetation. Work will take place within Land Subject to Coastal Storm Flowage and Coastal Dune, as well as the Buffer Zone to Coastal Dune and Coastal Beach.												
(
(n. Type Checklist									
		a.		Single Family Hom	e	b.		Residential Subdivision					
		c.		Limited Project Dr	iveway Crossing	d.		Commercial/Industrial					
	e. 🛘 Dock/Pier					f.		Utilities					
		g.		Coastal Engineerir	ng Structure	h.		Agriculture – cranberries, forestry					
		i.		Transportation		j.	X	Other					
	8.	Proj	pert	ty recorded at the	Registry of Deed	S							
	Suffolk a. County 7128 c. Book						104						
							b. Page Number						
							d. Certificate # (if registered land)						
						a. c		react in (in registered units)					
	9.	Tota	l Fe	ee Paid									
\$500 Act Fe	<u> </u>			Total = \$758.75)				\$521.25					
	a. To	otal Fe	e Pa	aid b	. State Fee Paid			c. City Fee Paid					
В.		BUF	FER	R ZONE & RESOUR	CE AREA IMPAC	CTS							
				Only - Is the proje Wetlands Ordinan	•	n the B	uffe	r Zone of a resource area protected by					
	☐ Yes							M No					
	1.	Coas	stal	Resource Areas									



NOTICE OF INTENT APPLICATION FORM

Boston Wetlands Ordinance City of Boston Code, Ordinances, Chapter 7-1.4 Boston File Number

MassDEP File Number

Re	esource Area	Resource <u>Area Size</u>	Proposed Alteration*	Proposed <u>Migitation</u>	
	Coastal Flood Resilience Zone				
		Square feet	Square feet	Square feet	
X	25-foot Waterfront Area	12,070+/-	1,770+/-	420+/-	
		Square feet	Square feet	Square feet	
	100-foot Salt Marsh Area				
		Square feet	Square feet	Square feet	
	Riverfront Area				
		Square feet	Square feet	Square feet	
2.	Inland Resource Areas				
ъ	•	Resource	Proposed	Proposed	
K	esource Area	Area Size	Alteration*	<u>Migitation</u>	
	Inland Flood Resilience Zone				
		Square feet	Square feet	Square feet	
	Isolated Wetlands				
		Square feet	Square feet	Square feet	
	Vernal Pool				
		Square feet	Square feet	Square feet	
	Vernal Pool Habitat (vernal pool + 100 ft. upland area)				
		Square feet	Square feet	Square feet	
	25-foot Waterfront Area				
		Square feet	Square feet	Square feet	
	Riverfront Area		<u> </u>		
		Square feet	Square feet	Square feet	
	OTHER APPLICABLE STANDARDS & REQUIREMEN	TS			
1.	What other permits, variances, or approvals are required herein and what is the status of such permits, variances,		ed activity des	cribed	
۷/A					
•//					

C.

City of Boston Environment

NOTICE OF INTENT APPLICATION FORM

Boston File Number Boston Wetlands Ordinance

City of Boston Code, Ordinances, Chapter 7-1.4 MassDEP File Number

2.	Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the Massachusetts Natural Heritage Atlas or go to http://www.mass.gov/dfwele/dfw/nhesp/nhregmap.htm .								
	□ Y	es	M No						
If yes	, the p	roject i	is subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18).					
	A. S	ubmit S	Supplemental Information for Endangered Species I	Review					
			Percentage/acreage of property to be altered:						
			(1) within wetland Resource Area	percentage/acreage					
			(2) outside Resource Area	percentage/acreage					
			Assessor's Map or right-of-way plan of site						
3.	Is any	y portic	on of the proposed project within an Area of Critical E	nvironmental Concern?					
	□ Y	'es	Ma No						
If y	es, pr	ovide tł	ne name of the ACEC:						
4.	Is the		sed project subject to provisions of the Massachusett						
	X	Yes. A	attach a copy of the Stormwater Checklist & Stormwate	r Report as required.					
	 Applying for a Low Impact Development (LID) site design credits 								
		M	A portion of the site constitutes redevelopment						
			Proprietary BMPs are included in the Stormwater Mo	anagement System					
		No. C	heck below & include a narrative as to why the project	is exempt					
			Single-family house						
			Emergency road repair						
			Small Residential Subdivision (less than or equal to 4 than or equal to 4 units in a multifamily housing proj Critical Areas						
5.	Is the	e propo	sed project subject to Boston Water and Sewer Comm	nission Review?					
	□ Y	es es	No No						



NOTICE OF INTENT APPLICATION FORM

Boston Wetlands Ordinance City of Boston Code, Ordinances, Chapter 7-1.4 Boston File Number

MassDEP File Number

D. 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 Protection Ordinance.

Sandra Libby Playground Planner DCR	4-27-21		
Signature of Applicant	Date		
Prilly Maigro	4-28-21		
Signature of Property Owner of different)	Date		
BETA Group, Inc. Felly R Carr	4-27-2021		
Signature of Representative (if any)	Date		

Checklist for Filing a Notice of Intent with Boston Conservation Commission

In order for the Boston Conservation Commission to effectively process your Notice of Intent, BCC requests that you complete the checklist below and include it with your submission. If you should need assistance please contact Commission Staff: 617-635-3850 (cc@boston.gov).

Please Submit the Following to the Conservation Commission:

- ☑ Two copies (a signed original and 1 copy) of a completed Notice of Intent (WPA Form 3)
- Two copies (a signed original and 1 copy) of a completed Boston Notice of Intent (Local Form)
- Two copies of plans (reduced to 11" X 17") in their final form with engineer's stamp affixed supporting calculations and other documentation necessary to completely describe the proposed work and mitigating measures. Plans must include existing conditions, the proposed project, erosion controls and mitigation measures, grading and spot elevations and all wetland resource areas and associated buffer zones. Some projects may require both an aerial view of the plans along with a profile view of plans depending on the scope of work.
- Two copies of an 8 ½" x 11" section of the <u>USGS quadrangle map</u> of the area, containing sufficient information for the Conservation Commission and the Department to locate the site of the work.
- ☑ (If applicable) Two copies the Federal Emergency Management Agency Flood Insurance Rate Map for the project site. FEMA Flood Maps: https://msc.fema.gov/portal.
- Two copies of the determination regarding the Natural Heritage and Endangered Species Program: Review Section C. Other Applicable Standards and Requirements of the Notice of Intent, page 4 of 8, pertaining to wildlife habitat. The Conservation Commission and the Natural Heritage & Endangered Species Program have the maps necessary to make this determination.
- ☑ (If applicable) Two hard copies of a Stormwater Report to document compliance with the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q), including associated drainage calculations for rooftops, parking lots, driveways, etc., for the required design storm events.
- (If applicable) A narrative detailing best management practices for stormwater management as set forth in the Stormwater Management Standards of the Massachusetts Department of Environmental Protection and any separate standards and guidelines prepared by the City and the Boston Water and Sewer Commission.
- ☑ (If applicable) Two hard copies of the Checklist for Stormwater Report
- □ Details of the stormwater management system, including: catch basins, oil separating tanks, detention basins, outfalls, sewer connections, etc.
- Any photographs related to the project representing the wetland resource areas.
- Two copies of a detailed project narrative describing the following: an overview of the entire project, the work proposed within wetland resource areas and/or buffer zones; how the performance standards specific to the wetland resource areas will be met (listing out each performance standard); a consideration of the effect that projected sea level rise, changes in storm intensity and frequency, and other consequences of climate change may have on the resource areas and proposed activities; construction equipment and material involved; and measures to protect wetland resource areas and mitigate impacts. The applicant shall also include narrative on how they plan to integrate climate change and adaptation planning considerations into their project to promote climate resilience to protect and promote Resource Area Values and functions into the future.
- Two copies of an Abutters List, Affidavit of Service and <u>Abutter Notification</u>, filed concurrently with the Notice of Intent. Abutter notices shall be sent in both English and the second most commonly spoken language(s) in the neighborhood(s) where the project is proposed. Notices shall also include Babel notice cards for additional translation and language access services. <u>All abutters within 300' of the project</u>

Checklist for Filing a Notice of Intent with Boston Conservation Commission

<u>property line</u> must be notified including those in a neighboring municipality. In such an instance, a copy of the filing must also be sent to the local Conservation Commission of the neighboring municipality. EXCEPTION: When work is in land under water bodies and waterways or on a tract of land greater than 50 acres, written notification must only be given to abutters within 300 feet of the "project site."

- □ Two copies of the BPDA Climate Resiliency Checklist (for new buildings). This can be completed online at http://www.bostonplans.org/planning/planning-initiatives/article-37-green-building-guidelines. Please print the pdf that you will receive via email after completion and include it in your submission.
- Electronic copies. Documents may be submitted via email, or via an email link to downloadable documents.



To minimize the use of non-recyclable materials *please do not include vinyl or plastic binders*, *bindings*, *folders or covers with the filing*. Staples and binder clips are good choices.





EXTENSION FORM

The undersigned hereby allows the **Boston Conservation Commission** an extension of time, beyond the statutory limit, to review an application or issue a final decision under the Massachusetts Wetlands Protection Act, M.G.L. Chapter 131, Section 40, and the Boston Wetlands Ordinance, Boston City Code, Ordinances, Chapter 7-1.4d during the state of emergency declared by the Governor on March 10, 2020.

<u>Applicant:</u>							
Sandra P.	Libby, M.Ed	., CPSI Departmen	t of Conservation and Recreation				
a. First Name	b. Last Name	c. Company	<u> </u>				
	eway Stree	et, Suite 600)				
d. Mailing Address							
Boston		MA	02114				
e. City/Town		f. State	g. Zip Code				
978-407-6307		sandra.li	bby@mass.gov				
h. Phone Number	i. Fax Number	j. Email address					
Sandra Lib	bu_		5-4-21				
Sandra Lib	ut		Date				
Property Owner (if d	<u>ifferent):</u>						
Priscilla	Geigis	Commo	nwealth of Massachusetts				
a. First Name	b. Last Name	c. Company					
250 Caus	eway Stree	et, Suite 600					
d. Mailing Address	<u> </u>	·					
Boston		MA	02114				
e. City/Town		f. State	g. Zip Code				
		priscilla.c	jeigis@mass.gov				
h. Phone Number	i. Fax Number	j. Email address	, e.g.e.g				
_							
J	Лю:Л		9-4-2V				
Signature of Propert	v Owner (if different)		Date				

Applications will only be accepted when submitted with a properly executed Extension Form.

ABUTTERS INFORMATION

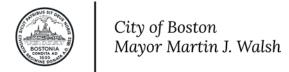


NOTE: Only abutters within 300 feet of the Project Locus have been notified per provisions of the Ordinance for parcels greater than 50 acres in size. Noyes Search for an address or enter a parcel ID below. Playground FROST Orient Heights ADDRESS SEARCH constitution beach SARATOCA ST 145 PARCEL SEARCH SEARCH SELECTED PARCEL 0104387002 - undefined Enter a buffer distance and a the mailing list csv will appear below. **BUFFER DISTANCE (FEET)** 300 **BUFFER PARCEL** DOWNLOAD MAILING LIST CSV

NOTE: Only abutters within 300 feet of the <u>Project Locus</u> have been notified per provisions of the Ordinance for parcels greater than 50 acres in size.

OBJECTID PID_LON	NG PID	GIS	_ID FULL_ADDRESS	CITY ZIP	PCODE	OWNER	ADDRESSEE	Owner2	MAIL_ADDRESS	MAIL_CS	MAIL_ZIPCODE
5378 10	.04352000	104352002	104352000 2 WESTBROOK ST #1-Feb	EAST BOSTON	212	8 BALES EMILY	BALES EMILY		119 M STREET	SOUTH BOSTON	2127
5384 10	.04353000	104353000	104353000 715 BENNINGTON ST	EAST BOSTON	212	8 FORBES LEAH ANNE BE	FORBES LEAH ANNE BE		715 BENNINGTON ST	EAST BOSTON	2128
5387 10	.04356000	104356000	104356000 727 BENNINGTON ST	EAST BOSTON	212	8 STAPLETON LIAM	STAPLETON LIAM		18 TOBIN AVENUE	REVERE	2151
5381 10	.04352000	104352008	104352000 4 WESTBROOK ST #2-Apr	EAST BOSTON	212	8 GREEN ELIZABETH	GREEN ELIZABETH		4 WESTBROOK ST #4-2	EAST BOSTON	2128
5363 10	.04322000	104322000	104322000 COWPER ST	EAST BOSTON	212	8 MASS BAY TRANSP AUTH	MASS BAY TRANSP AUTH		COWPER ST	EAST BOSTON	2128
5386 10	.04355000	104355000	104355000 723 BENNINGTON ST	EAST BOSTON	212	8 PHAM TIEN	PHAM TIEN	PHAM TUAN	5 Burrill TER	WINTHROP	02152-2614
5380 10	.04352000	104352006	104352000 4 WESTBROOK ST #1-Apr	EAST BOSTON	212	8 MURPHY ELIZABETH A	MURPHY ELIZABETH A		4 WESTBROOK ST #4-1	EAST BOSTON	2128
5395 10	.04362000	104362000	104362000 751 BENNINGTON ST	EAST BOSTON	212	8 MEYER JEANNETTE	MEYER JEANNETTE		484 HUMPHREY ST	SWAMPSCOTT	1907
5389 10	.04358000	104358000	104358000 735 BENNINGTON ST	EAST BOSTON	212	8 DEBAY DIANNE	DEBAY DIANNE		735 BENNINGTON ST	EAST BOSTON	2128
5383 10	.04352000	104352000	104352000 2 2A WESTBROOK ST	EAST BOSTON	212	8 2-4 WESTBROOK STREET	2-4 WESTBROOK STREET		43 COURT RD	WINTHROP	2152
5400 10	.04372000	104372000	104372000 917 BENNINGTON ST	EAST BOSTON	212	8 CONSTITUTION APARTMENTS LLC	CONSTITUTION APARTMENTS LLC		517 CONCORD AV	CAMBRIDGE	2138
5394 10	.04361000	104361000	104361000 747 BENNINGTON ST	EAST BOSTON	212	8 HUBBARD KENNETH J	HUBBARD KENNETH J		747 BENNINGTON ST	EAST BOSTON	2128
5388 10	.04357000	104357000	104357000 731 BENNINGTON ST	EAST BOSTON	212	8 DIAZ CLELIAN	DIAZ CLELIAN	DIAZ DANIEL	731 BENNINGTON ST	EAST BOSTON	2128
5397 10	.04364000	104364000	104364000 759 BENNINGTON ST	EAST BOSTON	212	8 HOUSNI AZZOUZ	HOUSNI AZZOUZ		759 BENNINGTON ST	E BOSTON	2128
5385 10	.04354000	104354000	104354000 719 BENNINGTON ST	EAST BOSTON	212	8 HALLAHAN LOUISE VIVOLO	HALLAHAN LOUISE VIVOLO		719 BENNINGTON ST	EAST BOSTON	2128
5391 10	.04360000	104360000	104360000 743 BENNINGTON ST	EAST BOSTON	212	8 SEVEN-43 BENNINGTON ST CONDO	SEVEN-43 BENNINGTON ST CONDO		743 BENNINGTON ST	EAST BOSTON	2128
5396 10	.04363000	104363000	104363000 755 BENNINGTON ST	EAST BOSTON	212	8 OBRIEN JAMES F	OBRIEN JAMES F	OBRIEN DAVID P	755 Bennington ST	EAST BOSTON	2128
5390 10	.04359000	104359000	104359000 739 BENNINGTON ST	EAST BOSTON	212	8 MANNING MATTHEW	MANNING MATTHEW		739 BENNINGTON ST	EAST BOSTON	2128
5382 10	.04352000	104352000	104352000 2 2A WESTBROOK ST	EAST BOSTON	212	8 2-4 WESTBROOK STREET	2-4 WESTBROOK STREET		43 COURT RD	WINTHROP	2152
5399 10	.04365000	104365000	104365000 BENNINGTON ST	EAST BOSTON	212	8 CITY OF BOSTON	CITY OF BOSTON		BENNINGTON ST	EAST BOSTON	2128
5379 10	.04352000	104352004	104352000 2 WESTBROOK ST #2-Feb	EAST BOSTON	212	8 FURFANO STEPHANIE F	FURFANO STEPHANIE F		2 WESTBROOK ST #2-2	EAST BOSTON	2128





NOTIFICATION TO ABUTTERS BOSTON CONSERVATION COMMISSION

In accordance with the Massachusetts Wetlands Protection Act, Massachusetts General Laws Chapter 131, Section 40, and the Boston Wetlands Ordinance, you are hereby notified as an abutter to a project filed with the Boston Conservation Commission.

- A. MA Department of Conservation and Recreation has filed a Notice of Intent with the Boston Conservation Commission seeking permission to alter an Area Subject to Protection under the Wetlands Protection Act (General Laws Chapter 131, section 40) and Boston Wetlands Ordinance.
 - B. The address of the lot where the activity is proposed is Constitution Beach (off Barnes Avenue and Coleridge Street)
 - C. The project involves playground rehabilitation including installation of new play equipment, playground reconfiguration, resurfacing, minor grading, construction of concrete walkways, and planting of native vegetation. Work will take place within Land Subject to Coastal Storm Flowage and Coastal Dune.
 - D. Copies of the Notice of Intent may be obtained by contacting the Boston Conservation Commission at CC@boston.gov.
 - E. Copies of the Notice of Intent may be obtained from Laura Krause, BETA Group Inc. (Ikrause@BETA-inc.com)

 Ph.: 508-756-1600 x156 between the hours of 8:00AM and 5PM, Monday through Friday
 - F. In accordance with the Commonwealth of Massachusetts Executive Order Suspending Certain Provisions of the Open Meeting Law, the public hearing will take place **virtually** at https://zoom.us/j/6864582044. If you are unable to access the internet, you can call 1-929-205-6099, enter Meeting ID 686 458 2044 # and use # as your participant ID.
 - G. Information regarding the date and time of the public hearing may be obtained from the **Boston Conservation Commission** by emailing <u>CC@boston.gov</u> or calling **(617) 635-3850** between the hours of **9 AM to 5 PM**, **Monday through Friday**.

NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the **Boston Herald.**

NOTE: Notice of the public hearing, including its date, tine, and place, will be posted on www.boston.gov/public-notices and in Boston City Hall not less than forty-eight (48) hours in advance.

NOTE: If you would like to provide comments, you may attend the public hearing or send written comments to CC@boston.gov or Boston City Hall, Environment Department, Room 709, 1 City Hall Square, Boston, MA 02201

NOTE: You also may contact the Boston Conservation Commission or the Department of Environmental Protection Northeast Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call: the Northeast Region: (978) 694-3200.



NOTIFICACIÓN PARA PROPIETARIOS Y/O VECINOS COLINDANTES COMISIÓN DE CONSERVACIÓN DE BOSTON

De conformidad con la Ley de protección de los humedales de Massachusetts, el Capítulo 131, Sección 40 de las Leyes Generales de Massachusetts y la Ordenanza sobre los humedales de Boston, por la presente queda usted notificado como propietario o vecino colindante de un proyecto presentado ante la Comisión de Conservación de Boston.

A. Departamento de Recreación y Conservación de ha presentado una solicitud a la Comisión de Conservación de Boston massachusetts pidiendo permiso para modificar una zona sujeta a protección en virtud de la Ley de protección de los humedales (Leyes generales, capítulo 131, sección 40) y la Ordenanza sobre los humedales de Boston.

- B. La dirección del lote donde se propone la actividad es Constitution Beach/Playa (Avenida Barnes y Calle Coleridge)
- C. El proyecto consiste en rehabilitación y reconfiguración del área recreativa incluyendo: la instalación de nuevos equipos de juego, repavimentación de áreas pavimentadas, construcción de caminos de concreto y siembra de plantas nativas. El proyecto se llevará a cabo en terrenos sujetos a inundación costera y dunas costeras.
- D. Se pueden obtener copias del Aviso de Intención comunicándose con la Comisión de Conservación de Boston en <u>CC@boston.gov</u>.
- E. Las copias de la notificación de intención pueden obtenerse en Laura Krause, BETA Group Inc. (Ikrause@BETA-inc.com)

 entre las 8:00AM and 5PM de Lunes a Viernes

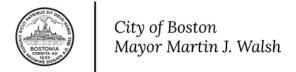
 Tel..: 508-756-1600 x156 (Para llamadas en español por favor comuniquese con Ale Echandi, 617-850-2398)
- F. De acuerdo con el Decreto Ejecutivo de le Mancomunidad de Massachusetts que suspende ciertas disposiciones de la Ley de reuniones abiertas, la audiencia pública se llevará a cabo virtualmente en https://zoom.us/j/6864582044. Si no puede acceder a Internet, puede llamar al 1-929-205-6099, ingresar ID de reunión 686 458 2044 # y usar # como su ID de participante.
- G. La información relativa a la fecha y hora de la audiencia pública puede solicitarse a la **Comisión** de **Conservación de Boston** por correo electrónico a <u>CC@boston.gov</u> o llamando al (617) 635-4416 entre las 9 AM y las 5 PM, de lunes a viernes.

NOTA: La notificación de la audiencia pública, incluida su fecha, hora y lugar, se publicará en el **Boston Herald** con al menos cinco (5) días de antelación.

NOTA: La notificación de la audiencia pública, incluida su fecha, hora y lugar, se publicará en www.boston.gov/public-notices y en el Ayuntamiento de Boston con no menos de cuarenta y ocho (48) horas de antelación. Si desea formular comentarios, puede asistir a la audiencia pública o enviarlos por escrito a CC@boston.gov o al Ayuntamiento de Boston, Departamento de Medio Ambiente, Sala 709, 1 City Hall Square, Boston, MA 02201.

NOTA: También puede comunicarse con la Comisión de Conservación de Boston o con la Oficina Regional del Noreste del Departamento de Protección Ambiental para obtener más información sobre esta solicitud o la Ley de Protección de Humedales. Para comunicarse con el DEP, llame a la Región Noreste: (978) 694-3200.





NOTA: si tiene previsto asistir a la audiencia pública y necesita servicios de interpretación, sírvase informar al personal en CC@boston.gov antes de las 12 PM del día anterior a la audiencia.

Dear Boston Conservation Commission,

I, <u>Alexandra (Ale) Echandi-Rodriguez</u>, hereby declare that I am fluent in Spanish and English. I hereby certify that I have translated/verified the Notification to Abutters form for the Constitution Beach Playground projet which is attached to this Affidavit. I further certify that, to the best of my knowledge, the attached document(s) in English is true and accurate translation of the attached document in Spanish.

Dechandi

Alexandra (Ale) Echandi-Rodriguez 5/6/2021



BABEL NOTICE

English:

IMPORTANT! This document or application contains **important information** about your rights, responsibilities and/or benefits. It is crucial that you understand the information in this document and/or application, and we will provide the information in your preferred language at no cost to you. If you need them, please contact us at lkrause@BETA-inc.com or 508-756-1600 x156

Spanish: Español

!IMPORTANTE! Este documento o solicitud contiene <u>información importante</u> sobre sus derechos, responsabilidades y/o beneficios. Es fundamental que usted entienda la información contenida en este documento y/o solicitud, y le proporcionaremos la información en su idioma preferido sin costo alguno para usted. Si los necesita, póngase en contacto con nosotros en el correo electrónico lkrause@BETA-inc.com o llamando al 508-756-1600 x156

Haitian Creole: Kreyòl ayisyen

AVI ENPÒTAN! Dokiman oubyen aplikasyon sa genyen <u>enfòmasyon ki enpòtan</u> konsènan dwa, responsablite, ak/oswa benefis ou yo. Li enpòtan ke ou konprann enfòmasyon ki nan dokiman ak/oubyen aplikasyon sa, e n ap bay enfòmasyon an nan lang ou prefere a, san ou pa peye anyen. Si w bezwen yo, tanpri kontakte nou nan ||krause@BETA-inc.com oswa

508-756-1600 x156

Traditional Chinese:繁體中文

非常重要!這份文件或是申請表格包含關於您的權利,責任,和/或福利的重要信息。請您務必完全理解 這份文件或申請表格的全部信息,這對我們來說十分重要。我們會免費給您提供翻譯服務。如果您有需要 請聯糸我們的郵箱lkrause@BETA-inc.com 電話# 508-756-1600 x156

Vietnamese: Tiếng Việt

QUAN TRỌNG! Tài liệu hoặc đơn yêu cầu này chứa **thông tin quan trọng** về các quyền, trách nhiệm và/hoặc lợi ích của bạn. Việc bạn hiểu rõ thông tin trong tài liệu và/hoặc đơn yêu cầu này rất quan trọng, và chúng tôi sẽ cung cấp thông tin bằng ngôn ngữ bạn muốn mà không tính phí. Nếu quý vị cần những dịch vụ này, vui lòng liên lạc với chúng tôi theo địa chỉ **krause@BETA-inc.com**

hoặc số điện thoại |508-756-1600 x156

Simplified Chinese: 简体中文

非常重要!这份文件或是申请表格包含关于您的权利,责任,和/或福利的重要信息。请您务必完全理解 这份文件或申请表格的全部信息,这对我们来说十分重要。我们会免费给您提供翻译服务。如果您有需要 请联糸我们的邮箱 lkrause@BETA-inc.com 电话# 508-756-1600 x156

Cape Verdean Creole: kriolu

INPURTANTI! Es dukumentu ó aplikason ten <u>informason inpurtanti</u> sobri bu direitus, rasponsabilidadis i/ó benefísius. É krusial ki bu intendi informason na es dukumentu i/ó aplikason ó nu ta da informason na língua di bu preferênsia sen ninhun kustu pa bó. Si bu prisiza del, kontata-nu na lkrause@BETA-inc.com 6 508-756-1600 x156

العربية :Arabic

مهم! يحتوي هذا المستند أو التطبيق على معلومات مهمة حول حقوقك ومسؤولياتك أو فوائدك. من الأهمية أن تفهم المعلومات الواردة في هذا المستند أو التطبيق. سوف نقدم المعلومات بلغتك المفضلة دون أي تكلفة عليك. إذا كنت في حاجة إليها، يرجى الاتصال بنا على

Russian: Русский

ВАЖНО! В этом документе или заявлении содержится **важная информация** о ваших правах, обязанностях и/или льготах. Для нас очень важно, чтобы вы понимали приведенную в этом документе и/или заявлении информацию, и мы готовы бесплатно предоставить вам информацию на предпочитаемом вами языке. Если Вам они нужны, просьба связаться с нами по адресу электронной почты lkrause@BETA-inc.com , либо по телефону

508-756-1600 x156

Portuguese: Português

IMPORTANTE! Este documento ou aplicativo contém Informações importantes sobre os seus direitos, responsabilidades e/ou benefícios. É importante que você compreenda as informações contidas neste documento e/ou aplicativo, e nós iremos fornecer as informações em seu idioma de preferência sem nenhum custo para você. Se precisar deles, fale conosco: lkrause@BETA-inc.com ou 508-756-1600 x156

French: Français

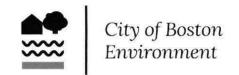
IMPORTANT! Ce document ou cette demande contient des <u>informations importantes</u> concernant vos droits, responsabilités et/ou avantages. Il est essentiel que vous compreniez les informations contenues dans ce document et/ou cette demande, que nous pouvons vous communiquer gratuitement dans la langue de votre choix. Si vous en avez besoin, veuillez nous contacter ou au 508-756-1600 x156 lkrause@BETA-inc.com

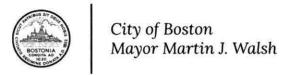












AFFIDAVIT OF SERVICE FOR ABUTTER NOTIFICATION

Under the Massachusetts Wetlands Protection Act and Boston Wetlands Ordinance

	, certify under pains and penalties of perjury that that at least g. I gave notice to abutters in compliance with the second
	Laws Chapter 131, section 40, and the DEP Guide to Abutter
Notification dated April 8, 1994, in co	onnection with the following matter:
A Notice of Intent	was filed under the Massachusetts Wetlands Protection Act
18.00 July 10. 10.00 July 10.	s Ordinance by the Massachusetts Department of Conservation and Recreation for
a proposed playground rehabilitation	
located at the Constitution Beach	Playground (off Barnes Avenue and Coleridge Street)
The Abutter Notification For, the list attached to this Affidavit of Service.	t of abutters to whom it was given, and their addresses are
1611	
H. Hanny	5/5/2021
7. 7 avoo	<u> </u>
Name /	Date
/ \	



BETA Group, Inc. 89 Shrewsbury Street, Suite 300 Worcester, MA 01604	Postmaster, per (name of receiving)	TOTAL NO. of Pieces Received at Post Off	fice™	Affix Stamp Here Postmark with Date	e of Receipt.	U.S. POSTAGE PA ALBION, RI 02802 MAY 05 21 AMOUNT \$9.24 R2307N153193-0	
USPS® Tracking Number Firm-specific Identifier	2-4 WESTBF	ROOK STREET -		Postage	Fee	Special Handling	Parcel Airlift
1.	The state of the s	URT RD — P, MA 02152 —					
	CITY	OF BOSTON					
2	The state of the s	INGTON ST STON, MA 02128	Ţ.				
3.	2 WESTE	O STEPHANIE F BROOK ST #2-2 STON, MA 02128		-			
4							
5.							
6.							



Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender TOTAL NO. of Pieces Received at Post Office Total No.	Affix Stamp Here Postmark with Date of	Receipt.		
BETA Group, Inc. 89 Shrewsbury Street, Suite 300 Worcester, MA 01604	Postmaster, per (name of receiving employee)			The state of the s	5 MA
USPS® Tracking Number Firm-specific Identifier	DIAZOLEHAN A DANIEL	Postage	Fee	Special Handling	Parcel Airlift
1.	DIAZ CLELIAN & DANIEL 731 BENNINGTON ST		291 - 694 305		3304 3004 500 300
<u>In</u>	EAST BOSTON, MA 02128				
2.	HOUSNI AZZOUZ 759 BENNINGTON ST		100 (1 - 200 - 100 - 100 (1 -		
	EAST BOSTON, MA 02128				
	HALLAHAN LOUISE VIVOLO	-			
3.	719 BENNINGTON ST				
J.	EAST BOSTON, MA 02128				
	OF VEN 40 DENNINGTON OF COURS	-			
4.	SEVEN-43 BENNINGTON ST CONDO — 743 BENNINGTON ST —				
	EAST BOSTON, MA 02128				
	OBRIEN JAMES F	-			
5.	OBRIEN DAVID P	Kana Kana Kana Kana Kana Kana Kana Kana			
	755 Bennington ST				
	EAST BOSTON, MA 02128	-			
6.	MANNING MATTHEW			11 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2. m 3. m 10. m
<u> </u>	739 BENNINGTON ST				
	EAST BOSTON, MA 02128	-			



BETA Group, Inc. 89 Shrewsbury Street, Suite 300 Worcester, MA 01604	TOTAL NO. of Pieces Listed by Sender TOTAL NO. of Pieces Received at Post Office™ Postmaster, per (name of receiving employee)	Affix Stamp Here Postmark with Date		S IN	102802
USPS® Tracking Number Firm-specific Identifier 1.	MURPHY ELIZABETH A 4 WESTBROOK ST #4-1 EAST BOSTON, MA 02128	Postage	Fee	Special Handling	Parcel Airlift
2.	MEYER JEANNETTE 484 HUMPHREY ST SWAMPSCOTT, MA 01907				
3.	DEBAY DIANNE 735 BENNINGTON ST EAST BOSTON, MA 02128				
4.	2-4 WESTBROOK STREET 43 COURT RD WINTHROP, MA 02152				
5.	CONSTITUTION APARTMENTS LLC 517 CONCORD AV CAMBRIDGE, MA 02138				
6	HUBBARD KENNETH J 747 BENNINGTON ST EAST BOSTON, MA 02128				a kajuminis ili a sa sa sa kaju bel



Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender TOTAL NO. of Pieces Received at Post Office	Affix Stamp Here Postmark with Date			
BETA Group, Inc. 89 Shrewsbury Street, Suite 300 Worcester, MA 01604	Postmaster, per (name of receiving employee)				5 Jan 028
USPS® Tracking Number Firm-specific Identifier		Postage	Fee	Special Handling	Parcel Airlift
1.	BALES EMILY 119 M STREET SOUTH BOSTON, MA 02127				
2.	FORBES LEAH ANNE BE 715 BENNINGTON ST EAST BOSTON, MA 02128				
3.	STAPLETON LIAM 18 TOBIN AVENUE REVERE, MA 02151				
4.	GREEN ELIZABETH 4 WESTBROOK ST #4-2 EAST BOSTON, MA 02128				
5.	MASS BAY TRANSP AUTH COWPER ST EAST BOSTON, MA 02128				
6	PHAM TIEN / PHAM TUAN 5 Burrill TER WINTHROP, MA 02152-2614			See 5	everse for Instruction

NARRATIVE



1.0 Introduction

The Massachusetts Department of Conservation and Recreation (DCR) proposes to construct playground improvements at the Constitution Beach playground (the Playground) off Coleridge Street and Barnes Avenue in Boston, Massachusetts. The purpose of the Project is to provide safe, upgraded amenities to users of the Playground and improve compliance with standards set forth by the Americans With Disabilities Act (ADA), while also improving coastal resiliency and stormwater management. Specific improvements include:

- Reconfiguring and resurfacing the play area with a pervious compound;
- Replacing and reconfiguring an existing fence;
- Removing and reconfiguring bituminous walkways;
- Constructing concrete walkways;
- Installing new play equipment within the footprint of the existing Playground;
- Minor grading, and,
- Restoring an approximately 4,188-square foot area that functions as Coastal Dune; 3,755 square feet of which will be vegetated with native species (collectively "the Project").

Construction of the Project requires impacts to Areas Subject to Jurisdiction and Protection under the Massachusetts Wetlands Protection Act (M.G.L. ch.131 s.40) and its Regulations at 310 CMR 10.00 (the Act), as well as the City of Boston Wetlands Protection and Climate Adaptation Ordinance (Chapter 7-1.3) (the Ordinance). Areas Subject to Jurisdiction and Protection under the Act and Ordinance to be impacted include Land Subject to Coastal Storm Flowage (LSCSF), Coastal Dune, Waterfront Area, and Buffer Zone to Coastal Beach/Coastal Dune.

The Project will minimize Resource Area impacts by installing and maintaining erosion controls and adhering to a strict limit of work. In conjunction with the reconfiguration of the play area, the Project also proposes the restoration of Coastal Dune. Under existing conditions, this is the location of the play area and maintained grass. The Project will also result in a net reduction of 844 square feet in impervious area.

2.0 SITE DESCRIPTION

2.1 PROJECT LOCUS

The Site consists of a portion of an 81.2±-acre parcel off of Coleridge Street and Barnes Avenue that is further identified as Boston Assessor Parcel 0104387002 (Figure 1 – Site Locus). The Site is bounded to the north, east, and west by residential properties, and to the south by Boston Harbor. The Project Locus is located within the west-central portion of the Constitution Beach parcel and consists of a playground, associated utilities, maintained grass, trees, and fencing. The Site is maintained by the Commonwealth of Massachusetts through DCR.

3.0 Existing Conditions

3.1 WETLAND RESOURCE AREAS

A Site inspection was conducted by BETA Group, Inc. (BETA) on October 27, 2020 to identify and delineate the boundary of existing Resource Areas on and in the immediate vicinity of the Site. Resource Area boundaries were identified and delineated in accordance with methods developed by the Massachusetts Department of Environmental Protection and Office of Coastal Zone Management's *Applying the*



Massachusetts Coastal Wetlands Regulations, dated 2017, as well as definitions set forth in the Wetland Regulations, 310 CMR 10.00. Several Areas Subject to Protection under the Act exist near the Project Locus, including LSCSF, Land Subject to Tidal Action (LSTA), Land Under the Ocean (LUO), Land Containing Shellfish (LCS), Coastal Beach, and Coastal Dune. LSTA, LUO, and LCS are not located on or within 100 feet on the Project Locus. Resource Areas are identified and depicted on the Project Plans in Appendix B.

The Project Locus is partially located within LSCSF and an area functioning as Coastal Dune. Additionally, the entirety of the Project Locus is constrained by Buffer Zone associated with Coastal Dune and Coastal Beach.

3.1.1 LAND SUBJECT TO COASTAL STORM FLOWAGE (310 CMR 10.04)

According to the FEMA Flood Insurance Rate Map (FIRM) community panel number 25025C0019J dated effective March 16, 2016 (Figure 4 – FEMA FIRMette), the Project Locus lies within a Flood Hazard Zone AE, subject to a 1% yearly chance of tidally influenced inundation below the published Base Flood Elevation (BFE) of 10' (NAVD88). Land below the BFE is defined as Land Subject to Coastal Storm Flowage (LSCSF) and is Subject to Protection under the Act. There is no Zone VE Flood Hazard mapped near the Site.

3.1.2 COASTAL BEACH (310 CMR 10.27) & COASTAL DUNE (310 CMR 10.28)

According to CMR 10.27(2), the definition of Coastal Beach is unconsolidated sediment subject to wave, tidal and coastal storm action which forms a gently sloping shore of a body of saltwater and includes tidal flats. The Coastal Beach at Constitution Beach extends from the MLW elevation to the limit of wave action, approximately at the HTL elevation located ~120 feet south of the exiting paved walkway.

The Wetland Regulations at 310 CMR 10.28(2) defines coastal dune as any natural hill, mound or ridge of sediment landward of a coastal beach deposited by wind action or storm over wash. Coastal Dune also means sediment deposited by artificial means and serving the purpose of storm damage prevention or flood control.

Based on review of publicly available maps and our site inspection, Coastal Dune is present on the Site from the dune line (the line between the Coastal Dune and Coastal Beach) approximately 120 feet southeast of the paved walkway, over the paved walkway, into the playground. The area southeast of the paved walkway area is maintained as sand (no vegetation), however, due to the absence of wave action it meets the definition of Coastal Dune (rather than Coastal Beach).

The area within and surrounding the playground is functioning as a Coastal Dune by providing the storm damage prevention and flood control functions through sediment transfer and providing flood storage. These functions within the playground are limited due to the existing improvements and infrastructure, however, they are present. The area functioning as a Coastal Dune within and around the playground extends between the paved surfaces to the southeast, southwest, and northwest and beyond the playground fence line to the north and northeast.

3.1.3 WATERFRONT AREA (SECTION 7-1.4)

According to the Ordinance, Waterfront Area exists on the Site and consists of land within 25 feet of Coastal Beach and Coastal Dune. Waterfront Area near the Project is entirely disturbed by existing improvements including the maintained grass, bituminous surfaces, and portions of the beach above the regulatory boundary of Coastal Beach.



3.2 BUFFER ZONES

Portions of the Project Locus are located within the 100-foot Buffer Zone to Coastal Beach and Coastal Dune. Buffer Zone generally consists of previously developed areas including the Playground, maintained grass areas, and concrete/bituminous walkways.

3.3 NHESP-Mapped Habitat and Other Sensitive Areas

According to the latest MassGIS data, the Project is not located within NHESP mapped Priority Habitat of Rare Species, Estimated Habitat of Rare Wildlife, or Areas of Critical Environmental Concern (ACEC). No mapped Certified or Potential Vernal Pools exist within 200 feet of the Project.

The Project is located upgradient of an area mapped as suitable habitat for soft shelled clams (*Mya arenaria*); however, no work is proposed below the LCS boundary (Figure 2 – Environmental Resources) and no direct drainage discharges are proposed to this area.

The Project is also located upgradient of filled and flowed tidelands, which are subject to Chapter 91 jurisdiction. All work is proposed above the Mean High Water (MHW) elevation of 4.26 feet (NAVD88) and the Historic High Water boundary (Figure 2 – Environmental Resources). Based on historic aerial photographs and USGS mapping, the Project Locus is excluded from jurisdictional Filled Tidelands.

4.0 WORK DESCRIPTION

4.1 WORK WITHIN JURISDICTIONAL AREAS

The Project proposes improvements to the Playground and surrounding amenities, resulting in impacts to LSCSF and an area which is also defined as Coastal Dune. All impacts are proposed within previously disturbed and/or degraded areas.

The Project design has prioritized minimizing additional impervious areas at the Site. The following table summarizes the Project's impacts in terms of impervious areas:



Table 1: Impervious Areas Summary

IMPACT	LOCATION	CHANGE IN IMPERVIOUS AREA
Removal of bituminous pathways within existing play area	Western portion of Project Locus (Coastal Dune)	-1,249 square feet
Removal of a portion of bituminous walkway	Southern portion of Project Locus (Coastal Dune, LSCSF, Waterfront Area)	-433 square feet
Expansion of bituminous walkway	Southern portion of Project Locus (Coastal Dune)	+256 square feet
Construction of concrete walkway	Western portion of Project Locus (Coastal Dune)	+366 square feet
Construction of concrete bench pads	Eastern portion of Project Locus (Coastal Dune)	+216 square feet
		NET CHANGE:
		-844 square feet

4.1.1 Work within Wetlands Protection Act Resource Areas

4.1.1.1 LAND SUBJECT TO COASTAL STORM FLOWAGE (310 CMR 10.04)

The Project Locus is partially within LSCSF. Proposed work will impact approximately 164 square feet of LSCSF through the reconfiguration of the play area, installation of fencing, reconstruction of a walkway, and removal of bituminous surfaces. All work is within previously disturbed areas and erosion controls will be installed to prevent the migration of sediment, as well as act as a visual limit of work to prevent further encroachments into LSCSF.

4.1.1.2 COASTAL DUNE (310 CMR 10.28)

Work within areas functioning as Coastal Dune will involve the construction of approximately 838 square feet of impervious area to facilitate improved pedestrian access to the reconfigured play area. However, there will be a net reduction of approximately 844 square feet of impervious area through the reconfiguration of the play area and walkways as detailed in Table 1. In addition, this reconfiguration will reduce the area of playground occupying the area functioning as Coastal Dune by approximately 4,400 square feet. The existing fence surrounding the area functioning as Coastal Dune will be replaced and reconfigured to accommodate the new play area.

Restoration/vegetation of Coastal Dune will enhance the area's capacity to function as a Coastal Dune and is described further in Section 5.3 – Coastal Dune Restoration.

4.1.2 WORK WITHIN BOSTON WETLANDS PROTECTION AND CLIMATE ADAPTATION ORDINANCE RESOURCE AREAS

4.1.2.1 WATERFRONT AREA (SECTION 7-1.4)

Work within Waterfront Area will result in a net decrease of approximately 420 square feet of impervious area due to the removal of a portion of a bituminous walkway. Additionally, approximately 1,770 square feet of Waterfront Area will be altered to reconfigure the play area. The reconfiguration of the play area



will enhance Coastal Dune function. The Project will not result in additional impervious area within the Waterfront Area, as the selected play area surface is pervious.

4.2 Work in Buffer Zones

Due to the nature of the Project, Buffer Zone impacts are unavoidable. Though much of the work is within an area functioning as Coastal Dune, the reconfiguration of the play area will result in the Project shifting further into Buffer Zone to allow for restoration of portions of the Coastal Dune. Impacts in Buffer Zone will be limited by installing and maintaining erosion controls and establishing a pervious base under the relocated play area. Buffer Zone's capacity to provide protection to adjacent Resource Areas will be improved through the removal of impervious areas and replacement of grass with native vegetation.

5.0 MITIGATION MEASURES

5.1 Erosion and Sedimentation Controls

Best Management Practices for erosion and sedimentation control will be adhered to for all phases of the Project to minimize erosion, sedimentation, and impacts on Resource Areas. Appendix B – Project Plans depicts erosion control details and locations.

Erosion and sedimentation barriers, consisting of compost-filled silt socks, will be installed along the limit of work, downgradient of the disturbed areas during construction to reduce the chance of soil or sediment migration under and beyond the sedimentation barrier.

Temporarily impacted areas will be restored to existing conditions upon completion of the Project, and two (2) areas will be improved through permanent restoration with native vegetation. Erosion controls will remain in place and in proper working order until the Site is completely stabilized. A stockpile of erosion control materials will be kept on-site for emergency and routine replacement.

Soil stockpiles will be located outside of LSCSF to the maximum extent practicable. In the event that stockpiling occurs with LSCSF, they will be placed on a poly fabric and surrounded with compost filter tubes to prevent sediment migration.

Equipment staging will be located within the parking area to the northwest of the playground area as depicted on the plans. Catch basins within the vicinity of the staging area will be protected with inlet protection measures.

5.2 WATER CONTROLS AND DEWATERING

It is anticipated that Project activities will not require dewatering. However, if dewatering is required during construction, standard measures will be employed when necessary to keep work areas dry. For example, if groundwater is encountered it shall be discharged overland in upland areas after infiltrating through a filtration system such as a filter sock or conveyed to a settling tank. A potential dewatering discharge location is identified in Appendix B – Project Plans, if needed.

5.3 COASTAL DUNE RESTORATION

The Project proposes to restore approximately 4,188 of Coastal Dune. Approximately 433 square feet of this work will consist of the reduction of impervious areas at the south end of the Project Locus, while the remaining 3,755 square feet will be restored and vegetated in the following general sequence:

Removal of existing grass, impervious areas, and sand within the restoration area footprint;



- Minor grading to establish a planting area no greater than 1-foot higher than the surrounding grade;
- Placement of sand within Coastal Dune restorations areas and loam with Buffer Zone restoration areas;
- Installation of native plantings including grasses and perennial groundcover, and;
- Replacement of sand.

This work will enhance the Coastal Dune's capacity to function as a Coastal Dune. Sand will be stockpiled for reuse and will be surrounded with erosion controls. In addition, erosion controls consisting of compost filter tubes will be installed along the toe of slope adjacent to the existing bituminous walkway and grass areas. A grading and planting plan with a proposed species list is included in Appendix B – Project Plans.

5.4 STORMWATER MANAGEMENT

According to the Stormwater Management Standards (310 CMR 10.05(6)(k-q)), the proposed work constitutes a Redevelopment Project because the work will occur within existing developed and degraded areas. Redevelopment projects are required to meet Standards 1 and 7 through 10 fully; and, Standards 2 through 6 only to the maximum extent practicable. See Appendix C – Stormwater Management Report for further details on compliance with the Massachusetts Stormwater Management Standards.

The Project will maintain erosion control BMPs for the duration of construction, protect existing trees, reduce the total area of impervious surfaces, and restore portions of Coastal Dune.

5.5 SPILL CONTAINMENT

The contractor will be required to have spill containment kit onsite at all times, which will consist of absorbent pads and compounds, fuel pans, and any other materials deemed necessary by the contractor. The Conservation Commission will be notified immediately in the event of any fuel spills. Fueling shall take place at least 100 feet from Coastal Beach, away from any catch basins, and will be conducted to minimize the risk of spills. Measures to prevent spills include placing fuel pans under the equipment during fueling.

6.0 REGULATORY COMPLIANCE

The Project, as proposed, will comply with the Performance Standards for LSCSF and Coastal Dune under the Act.

6.1 Massachusetts Wetlands Protection Act Regulations – 310 CMR 10.00

6.1.1 LAND SUBJECT TO COASTAL STORM FLOWAGE - GENERAL PERFORMANCE STANDARDS

There are no Performance Standards under the Act for LSCSF. However, pursuant to the Introduction found at 310 CMR 10.21¹, the Project has been designed so work within LSCSF will protect to the applicable interests of the Act.

Impacts to LSCSF consists of removal of impervious areas and the reconfiguration of the play area. Removal of impervious areas will contribute to a minor reduction in runoff leaving the Project Locus. Although the reconfigured play area will be partially sited within LSCSF, the pour-in-place rubber surface

¹ 310 CMR 10.21: "...310 CMR 10.21 through 10.37 are intended to ensure that development along the coastline is located, designed, built and maintained in a manner that protects the public interests in the coastal resources listed in M.G.L. c. 131, § 40. The proponent of the work must submit sufficient information to enable the issuing authority to determine whether the proposed work will comply with 310 CMR 10.21 through 10.37."



is pervious and will be underlain by 18 inches of crushed stone in support the groundwater supply, flood control, and storm damage prevention interests of the Act. In addition, the proposed grading as depicted in Appendix B – Project Plans will result in an increase the flood storage volume at Elevation 10' (NAVD88).

The function of LSCSF at the Site will be improved by the Project.

6.1.2 COASTAL DUNE - GENERAL PERFORMANCE STANDARDS

The Project will comply with the General Performance Standards for Coastal Dune found at 310 CMR 10.28(3). The Performance Standards state that any alteration of, or structure on, a Coastal Dune or within 100 feet of a Coastal Dune shall not have an adverse effect on the Coastal Dune by:

(a) affecting the ability of waves to remove sand from the dune;

While erosion controls will result in a temporary impact to sand migration, deposition, and removal from the Dune through wave action, this coastal process will be restored following completion of the Project. The proposed steel fence will consist of 1" square pickets separated by gaps that will allow this passage of sand.

(b) disturbing the vegetative cover so as to destabilize the dune;

The proposed restoration will provide robust, native vegetative cover within an area that is currently maintained grass, thereby improving the Dune's stability. The reconfiguration of the play area will also result in the restoration of Coastal Dune within an area that the playground presently occupies.

(c) causing any modification of the dune form that would increase the potential for storm or flood damage;

The planting of native vegetation will improve the Dune's capacity to provide storm and flood damage protection by providing improved attenuation of floodwaters.

(d) interfering with the landward or lateral movement of the dune;

Ability for lateral movement of the Dune will be maintained by the northeasterly expansion of the play area, as this will laterally expand the area in which sand can migrate. Lateral migration of the Dune will not be inhibited by the Project. The Dune's ability to move landward will remain unchanged when compared to existing conditions.

(e) causing removal of sand from the dune artificially;

While sand will be temporary relocated to construct the Project, it will be replaced, and the Dune will continue to support the function of sand deposition/migration.

(f) interfering with mapped or otherwise identified bird nesting habitat.

There are no mapped or otherwise identified bird nesting habitat at the Site.

310 CMR 10.28(5)(c) states that plantings compatible with the natural vegetative cover are permitted on Coastal Dune, so long as the work complies with the provisions of 310 CMR 10.28(3). The proposed restoration will provide a number of native species suitable for Dune habitat, which will enhance the function of the landform.



6.1.3 100' BUFFER ZONE

The Act does not list Performance Standards for the 100' Buffer Zone. However, the Project has been designed in compliance with the General Provision set forth in 310 CMR 10.53(1)². Erosion controls will be installed downgradient of the proposed work in order to prevent excessive sediment migration towards Coastal Beach and LSCSF. In addition, the work will result in a net decrease of impervious area, thereby promoting infiltration and reducing runoff into the adjacent Resource Areas. The final, proposed conditions will also consist of an increase in native vegetation to provide an improved Buffer Zone to Coastal Beach.

6.2 CITY OF BOSTON WETLANDS PROTECTION AND CLIMATE ADAPTATION ORDINANCE

The Project fully complies with the Act and is thereby anticipated to fully comply with the Ordinance, including the locally jurisdictional Waterfront Area.

6.2.1 WATERFRONT AREA

Portions of work are proposed within the 25' Waterfront Area. The regulations promulgated under the Ordinance dated August 19, 2021 do not contain Performance Standards for Resource Areas, including the Waterfront Area. However, work within Waterfront Area will primarily consist of the removal of impervious surfaces and the restoration of grass areas with native vegetation. Therefore, conditions of the Waterfront Area will be improved, and it will serve as a more effective Buffer to the downgradient Coastal Beach and Coastal Dune.

7.0 CLIMATE STATEMENT

The Coastal Resiliency Solutions for East Boston and Charlestown Final Report dated October 2017 (the Report) predicts that sea levels may rise 36 inches by the 2070's, resulting in areas impacted by coastal storms that are much larger than currently mapped for sites like Constitution Beach. The Project and its elements were designed to improve the Site's resiliency with climate change in mind.

The following Project components have been included to improve resiliency in the Project area:

- Use of non-powder coated, straight, galvanized steel for large support posts;
- Replacement of impervious areas and maintained grass with native beach grasses and other plantings;
- Planting trees and maintaining existing trees;
- Use of cement concrete in lieu of bituminous concrete to reduce the heat island effect;
- Maintaining and improving the functions of an area acting as Coastal Dune; and,
- Installing a pervious surface under the play areas.

Chapter 4 of the Report, Coastal Resilience Solutions, discusses the importance of "nature-based features" in light of climate resiliency. The area functioning as Coastal Dune that is being restored by the Project will serve as "...an extension of the waterfront parks and pathways, increasing available space and protecting them from the wear and tear of tidal fluctuations and waves."

Thoughtful and sustainable design of Projects within beachfront areas, such as the Constitution Beach Playground, will contribute to decreased storm damage and erosion. In addition, should current climate

² 310 CMR 10.53(1): For work in the Buffer Zone subject to review under 310 CMR 10.02(2)(b)3., the Issuing Authority shall impose conditions to protect the interests of the Act identified for the adjacent Resource Area.



trends continue, the above referenced Project components will contribute to improved resiliency to storm surges and increased flooding. Given the relatively small scale of the Project, DCR feels that these climate resiliency measures adequately address climate change and will integrate with plans for rehabilitation at other DCR properties in Boston.

The Project will also enhance accessibility to the local Environmental Justice Community. Individuals who may not have the means to travel to other parts of the City for similar destinations will now have an improved recreation destination that will afford equal participation privileges to individuals that require ADA-compliant resources. DCR's proposed projects, such as the Constitution Beach Playground Improvements, also ensure that climate resiliency is afforded to not just the more affluent districts of the City.

8.0 SUMMARY

The Project aims to improve ADA accessibility and safety, climate resiliency, and stormwater management at the Constitution Beach Playground, and has been designed to minimize and mitigate Resource Area impacts. It is anticipated that the proposed Coastal Dune restoration, increase in function of LSCSF, and reduction in impervious surfaces will support the interests of the Act and the Ordinance. The Project has been designed to meet all local and state standards where feasible, has incorporated coastal restoration and resiliency components, and has minimized impacts to the greatest extent practical and feasible.

The Massachusetts Department of Conservation and Recreation respectfully requests that the Boston Conservation Commission find these measures adequately protective of the interests of the Act in the Order of Conditions approving the work as described herein and on the accompanying plans.



FIGURES



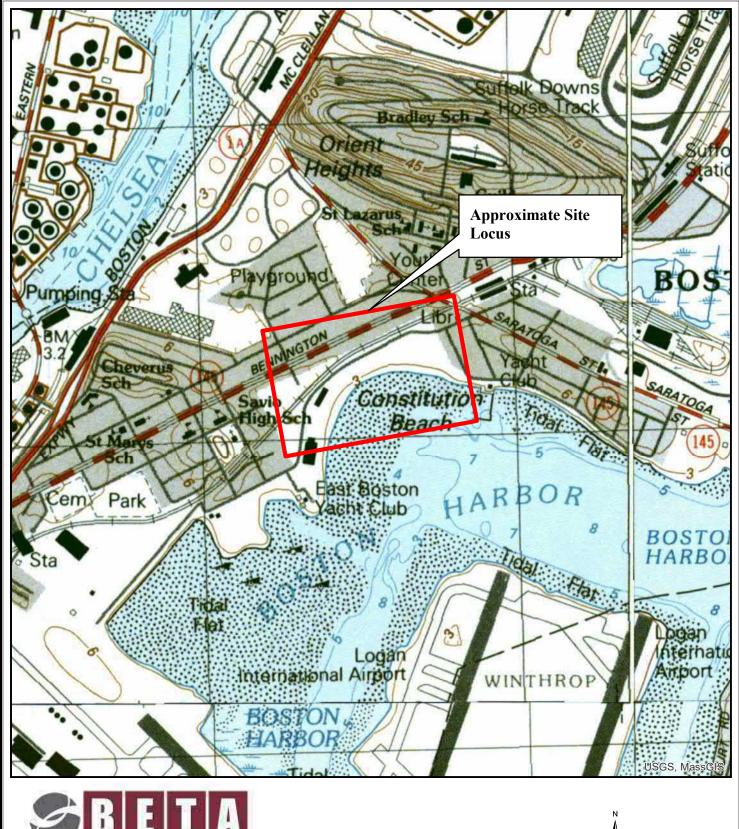
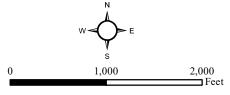


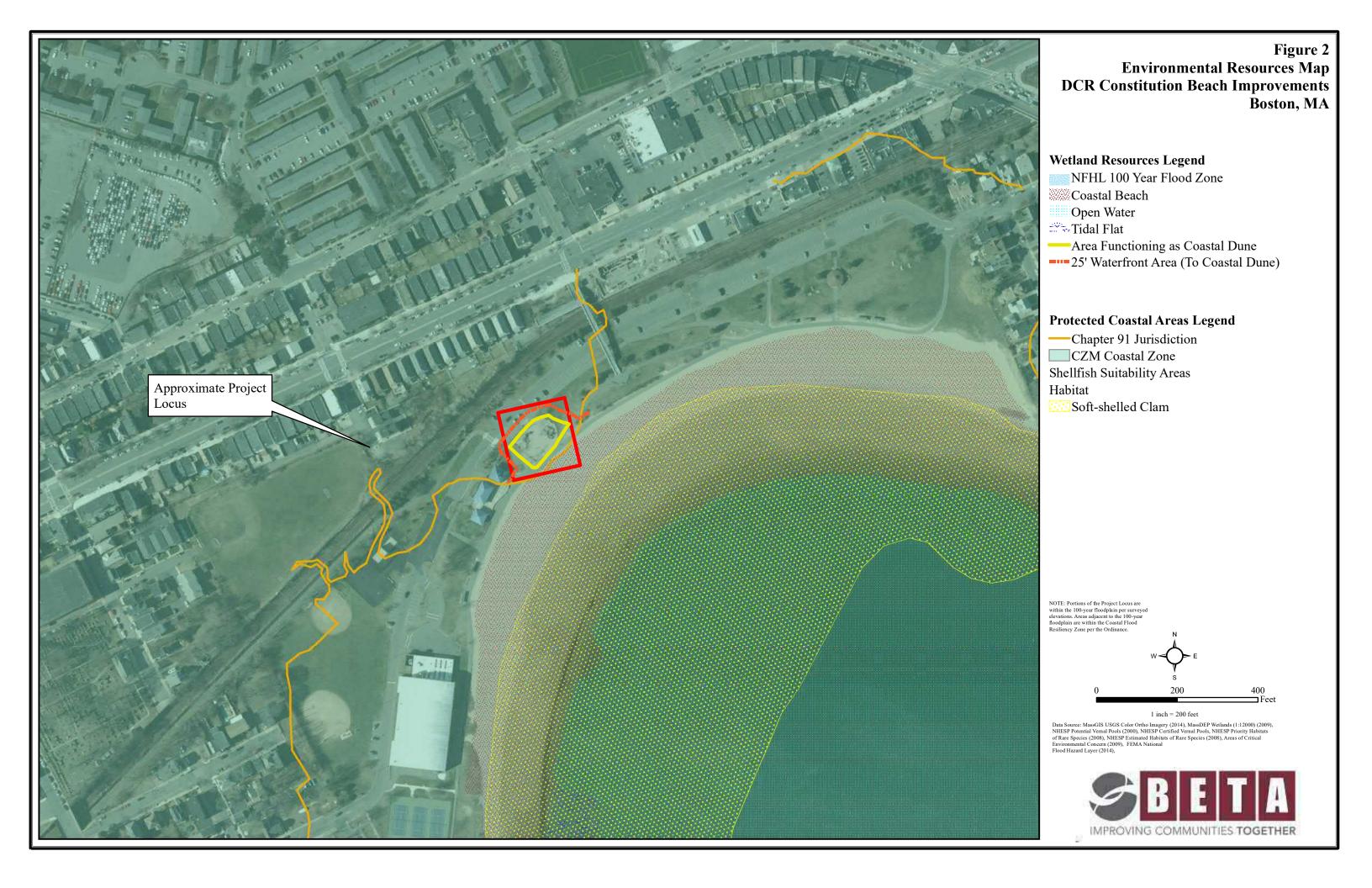


Figure 1 **Site Locus DCR Constitution Beach Improvements** Boston, MA



1 inch = 1,000 feet

Data Source: MassGIS USGS Topographic Quadrangle Images (2001)



National Flood Hazard Layer FIRMette



Legend SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD **HAZARD AREAS** Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLI Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline**

OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/29/2020 at 3:50 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Constitution Beach Propose	d Playground	Improvements
----------------------------	--------------	---------------------

Photographic Documentation





View of Coastal Beach and Coastal Dune system—facing south.

Photo 2



View of the playground area—facing northwest. Note the sand deposits within the bituminous concrete walkway and adjacent grass area in the foreground.

PHOTOGRAPHIC DOCUMENTATION



View of an MDC marker near the playground area.

Photo 4



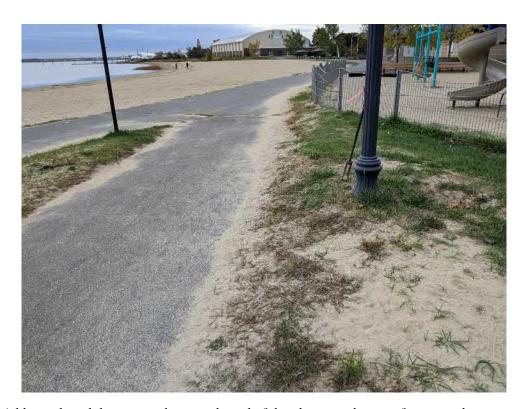
Sand deposits within the grass adjacent to the MDC marker.

PHOTOGRAPHIC DOCUMENTATION



A view of the concrete block retaining wall and significant sand deposits—facing northeast.

Photo 6



Additional sand deposits at the easterly end of the playground area—facing southwest.

PHOTOGRAPHIC DOCUMENTATION



View of fill materials observed at the easterly end of the playground area.

Photo 8



A view of the swing set within the playground. Here the playground provides some dune functions, providing sediment transfer to and from the Coastal Beach—facing southeast.

PHOTOGRAPHIC DOCUMENTATION



Exposed rubber matting within the playground area.

Photo 10



Fill material in a soil profile jus south of the playground area.

PHOTOGRAPHIC DOCUMENTATION



Sand deposits west of the playground area—facing north.

Photo 12



View of water service road box located at western limit of playground.

PHOTOGRAPHIC DOCUMENTATION



A view of the salt marsh located \sim 350 feet southeast of the playground area—facing south.

Photo 14



View of Coastal Beach looking toward the playground area. The landward boundary of the Coastal Beach is at the limit of wave action. Landward of the Coastal Beach is a combed/maintained coastal dune—facing north.

PHOTOGRAPHIC DOCUMENTATION

APPENDIX A – Resource Area Delineation Report





Coastal Resource Area Assessment DCR – Constitution Beach Boston, Massachusetts

January 18, 2021 Revised through March 19, 2021

On October 27, 2020, BETA Group, Inc. (BETA) conducted coastal resource area identification/assessment delineations at 799 Bennington Street (Constitution Beach Playground) in Boston, Massachusetts (the Site). This report describes resource areas Subject to Protection under the Massachusetts Wetlands Protection Act (M.G.L. Chapter 131 Section 40 - the Act), City of Boston Wetlands Protection and Climate Change Adaptation Ordinance (Chapter 7-1.4), the federal Clean Water Act CFR (33 U.S.C. §1251 et seq (1972)), the federal Rivers and Harbors Act (33 U.S.C. 403 (1899)), and the Massachusetts Clean Waters Act (MGL Chapter 21 Section 26-53), that exist on the Site and methodology used to delineate their boundaries.

Site Description

The Site is located on a Department of Conservation and Recreation (DCR)-owned property situated in East Boston (Figure 1 – Site Locus) primarily visited by residents of the Commonwealth for recreational purposes. Constitution Beach is bounded to the north by residential and commercial properties on Bennington Street, to the west by residential properties on Wordsworth Street and Cowper Street, to the east by residential properties on Barnes Avenue and Thurston Street, and to the south by Boston Harbor and its associated tidelands (Figure 2 – Environmental Resources). The Site consists of a playground area to the west of a maintained recreational public beach and east of a parking area.

The focus of this site visit was to identify and assess resource areas that may be relevant to potential improvements at the Constitution Beach Playground.

According to the USDA Natural Resources Conservation Service – Soil Survey, mapped soils on the Site and in the vicinity of the Site are classified as Beaches, sand; and Udorthents, wet substratum. Our field work confirmed the soil types on the Site. The Custom Soil Resource Report for Norfolk and Suffolk Counties, Massachusetts is attached.

State jurisdictional resource areas identified on the Site include Land Subject to Coastal Storm Flowage, Land Subject to Tidal Actions, Land Under the Ocean, Coastal Beach, Coastal Bank, and Land Containing Shellfish. The MassGIS database was used as the initial step in identifying critical areas on or within proximity of the site that would be examined more closely if construction activities are proposed. The table below describes selected environmentally critical categories as determined through MassGIS.

Table 1. Selected MassGIS Environmental Data Layers

Mapped Resource on or Within Proximity to Site	Yes	No
Area of Critical Environmental Concern	1	✓
NHESP Certified Vernal Pool		✓
NHESP Potential Vernal Pool		✓
Coldwater Fisheries Resource		✓
NHESP Established Habitat of Rare Wildlife		✓
NHESP Priority Habitat of Rare Species		✓
Outstanding Resource Waters		✓
FEMA Flood Zones	✓	

Mapped Resource on or Within Proximity to Site	Yes	No
Surface Water Protection Area (Zones A and B)		✓
Interim Wellhead Protection Area		✓
Zone II Wellhead Protection Area		✓
Tidelands – Chapter 91 Jurisdiction	✓	
Designated Port Area		✓
CZM Coastal Zone	✓	
Anadromous Fish Presence		✓
Land Containing Shellfish	✓	

Source: MassGIS

Jurisdictional Wetland Resource Areas - Massachusetts Wetlands Protection Act

A Site inspection was conducted by BETA's Wetland Scientists on October 27, 2020 to identify and assess existing wetland resource areas on the Site and in the immediate vicinity of the Project Locus. Resource areas were identified in accordance with methods developed by the Massachusetts Department of Environmental Protection and Office of Coastal Zone Management's *Applying the Massachusetts Coastal Wetlands Regulations*, dated 2017, as well as definitions set forth in the Wetland Regulations, 310 CMR 10.00. Several Areas Subject to Protection under the Act exist on the Site and are described below.

Land Subject to Coastal Storm Flowage - FEMA AE and VE Zones - 310 CMR 10.04

According to the FEMA Flood Insurance Rate Map (FIRM) community panel number 25025C0019J dated effective March 16, 2016 (Figure 4), the Site lies within a Flood Hazard Zone AE, subject to a 1% yearly chance of tidally influenced inundation below the published Base Flood Elevation (BFE) of 10' (NAVD88). Land below the BFE is defined as Land Subject to Coastal Storm Flowage (LSCSF) and is subject to Jurisdiction under the Act. There is no Zone VE Flood Hazard mapped near the Site.

Land Subject to Tidal Action – 310 CMR 10.04

According to the Statement of Jurisdiction at 310 CMR 10.02 and definition at 310 CMR 10.04, Land Subject to Tidal Action is defined as land subject to the periodic rise and fall of a coastal water body, including spring tides. The limit of this resource area is the extreme high tide elevation (HTL).

Through review of tide charts and the Buzzards Bay National Estuary Program's Tidal Datum Viewer, the modeled the MLW elevation is -5.11 feet (NAVD88) as determined by NOAA's VDatum software, and the HTL is 6.79 feet (NAVD88).

Land Under the Ocean - 310 CMR 10.26

According to 310 CMR 10.25(2), Land Under the Ocean is defined as the "land extending from the mean low water (MLW) line seaward to the municipality's jurisdiction and includes estuaries". Due to the fact that Boston Harbor consists of tidal waters, land under this waterbody is, by definition, Land Under the Ocean. According to the Buzzards Bay National Estuary Program's Tidal Datum Viewer, the modeled the MLW elevation is approximately -5.11 feet (NAVD88) as determined by NOAA's VDatum software.

Coastal Beach – 310 CMR 10.27

According to CMR 10.27(2), the definition of Coastal Beach is unconsolidated sediment subject to wave, tidal and coastal storm action which forms a gently sloping shore of a body of saltwater and includes tidal flats. The Coastal Beach at Constitution Beach extends from the MLW elevation to the



January 18, 2021 Revised through March 19, 2021 Page 3 of 5

limit of wave action, approximately at the HTL elevation located ~120 feet south of the exiting paved walkway.

Coastal Dune – 310 CMR 10.28

The Wetland Regulations at 310 CMR 10.28(2) defines coastal dune as any natural hill, mound or ridge of sediment landward of a coastal beach deposited by wind action or storm over wash. Coastal Dune also means sediment deposited by artificial means and serving the purpose of storm damage prevention or flood control.

Based on review of publicly available maps and our site inspection, Coastal Dune is present on the Site from the dune line (the line between the Coastal Dune and Coastal Beach) approximately 120 feet southeast of the paved walkway, over the paved walkway, into the playground. The area southeast of the paved walkway area is maintained as sand (no vegetation), however, due to the absence of wave action it meets the definition of Coastal Dune (rather than Coastal Beach).

The area within and surrounding the playground is functioning as a Coastal Dune by providing the storm damage prevention and flood control functions through sediment transfer and providing flood storage. These functions within the playground are limited due to the existing improvements and infrastructure, however, they are present. The area functioning as a Coastal Dune within and around the playground extends between the paved surfaces to the southeast, southwest, and northwest and beyond the playground fence line to the north and northeast (see Figure 3).

<u>Land Containing Shellfish – 310 CMR 10.34</u>

Land Containing Shellfish is defined as land under the ocean, tidal flats, rocky intertidal shores, salt marshes and land under salt ponds when any such land contains shellfish. The intertidal area (between the MLW and MHW elevation) is mapped as suitable for soft-shell clams (*Mya arenaria*).

Jurisdictional Wetland Resource Areas – City of Boston Wetlands Protection and Climate Change Adaptation Ordinance

As a state agency, DCR is not subject to local bylaws, however, the department has traditionally made every attempt to comply with local bylaws where reasonably practicable and economically feasible. Accordingly, Areas Subject to local Protection and Jurisdiction are included in this report.

City of Boston Wetlands Protection and Climate Change Adaptation Ordinance (Chapter 7-1.4) (the Ordinance) maintains the same coastal resource area definitions as provided in the Act, except for Coastal Bank and the Coastal Flood Resiliency Zone (CFRZ). The Bylaw also extends Protections to Isolated Vegetated Wetlands (IVWs), however, no IVWs were identified on or within 100 feet of the Site.

Coastal Bank (7-1.4b): In addition to the definition found in the regulations under the Wetlands Protection Act,310 C.M.R. 10.30, "Coastal Bank" shall include seawalls and bulkheads existing on the effective date of this Ordinance unless the seawall supplies sediment to coastal beaches, coastal dunes, and barrier beaches. Existing seawalls and bulkheads are presumed significant to the purpose of the Act and Regulations as a Coastal Bank because they are designed to serve as vertical buffers to storm damage. Note no areas meeting the local definition of Coastal Bank exist on the Site.

Coastal Flood Resilience Zone or CFRZ (7-1.4b): The area of land beyond the current boundary of land subject to coastal storm flowage or land subject to tidal action that the Commission determines has a reasonable probability of becoming subject to future coastal storm flowage or tidal action due to sea level rise (SLR) within approximately the next 50 years. The "coastal flood resilience zone" as delineated on maps



January 18, 2021 Revised through March 19, 2021 Page 4 of 5

adopted by the Commission may be periodically reviewed and revised by the Commission, and may divided into sub-zones with different regulatory requirements.

In addition, the Bylaw affords protection to land within 100 feet of the resource areas outlined in the Ordinance with the exception of LSCSF and the CFRZ.

Jurisdictional Wetland Resource Areas – Federal Clean Water Act (Sections 10 and 404)

Boston Harbor is a "Tidal Waters of the United States" and therefore subject to the federal Rivers and Harbors Act, 33 U.S.C. 403 (1899) and the federal Clean Water Act, 33 U.S.C. 1251 et seq (1972). According to 33 CFR §328.3(d), Tidal Waters are defined as "waters that rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by hydrologic, wind, or other effects."

The boundary to "Tidal Waters of the United States" is the High Tide Line (HTL), which is defined at 33 CFR §328.3(c)(7). The boundary of the HTL can be approximated using the "King Tide" elevation, which is approximately 6.79 feet (NAVD88). Construction of any structure in, over, or under tidal waters, or work affecting the course, location, condition, or capacity of tidal waters is Subject to Jurisdiction under Section 10 of the Rivers and Harbors Act. Work that requires filling below the boundary of the HTL onsite is Subject to Jurisdiction under Sections 10 and 404 of the Clean Water Act.

Jurisdictional Wetland Resource Areas – Massachusetts Clean Waters Act (Section 401)

The limit of jurisdiction under Massachusetts Clean Waters Act (Section 401), as specified in 314 CMR 9.00, is the boundary of federally regulated waters. Exceedances of the jurisdictional threshold under 314 CMR 9.00 require filing for a Water Quality Certification under Section 401.

Jurisdictional Resource Areas - The Massachusetts Public Waterfront Act (Chapter 91)

Most activities that take place within Flowed Tidelands or Filled Tidelands require Chapter 91 authorization. Chapter 91 Jurisdiction exists on the Site where Filled Tidelands are present at the limit of the "Historic High Water" (Figure 2). Where Flowed Tidelands exist (Figure 2 – "Contemporary High Water"), the limit of Chapter 91 jurisdiction is the MHW elevation which is estimated to be 4.26 feet (NAVD88). Based on historic aerial photographs and USGS mapping, it appears that the Project Locus is excluded from jurisdictional Filled Tidelands.

Findings and Recommendations

BETA has identified areas Subject to Protection and/or Jurisdiction under the Massachusetts Wetlands Protection Act, City of Boston Wetlands Protection and Climate Change Adaptation Ordinance, the federal Clean Water Act, and the Massachusetts Clean Waters Act, on or within 100 feet of the Site.

We appreciate the opportunity to provide you with expert wetland services. If you have any questions or need further assistance, please do not hesitate to call us.

Attachments: Figure 1 – Site Locus

Figure 2 – Environmental Resources Map

Figure 3 – Area Functioning as Coastal Dune Within and Adjacent to Playground

Figure 4 - FEMA FIRMette Photographic Documentation

Custom Soil Report for Suffolk and Norfolk County, Massachusetts



January 18, 2021 Revised through March 19, 2021 Page 5 of 5

Job No: 19.06037.00



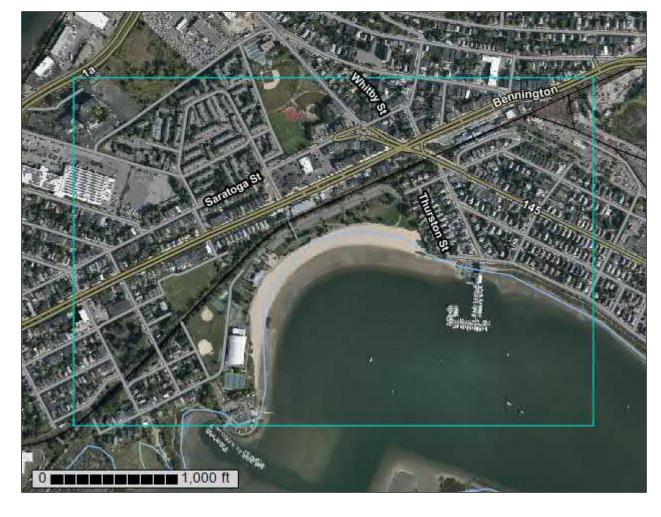




NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Norfolk and Suffolk Counties, Massachusetts



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

Preface	2
How Soil Surveys Are Made	
Soil Map	8
Soil Map	9
Legend	10
Map Unit Legend	11
Map Unit Descriptions	11
Norfolk and Suffolk Counties, Massachusetts	
1—Water	13
602—Urban land, 0 to 15 percent slopes	13
603—Urban land, wet substratum, 0 to 3 percent slopes	
610—Beaches, sand	
627C—Newport-Urban land complex, 3 to 15 percent slopes	15
655—Udorthents, wet substratum	
References	18

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

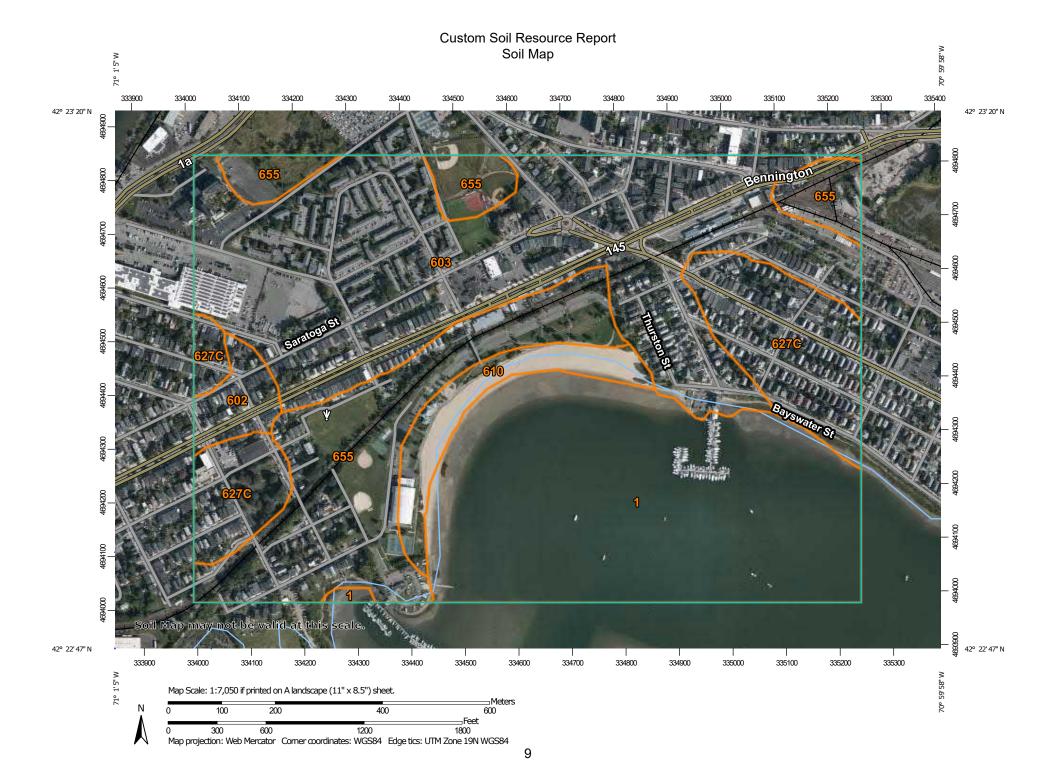
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Sodic Spot

Slide or Slip



Spoil Area Stony Spot



Very Stony Spot



Wet Spot Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:25.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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

Soil Survey Area: Norfolk and Suffolk Counties, Massachusetts Survey Area Data: Version 16, Jun 11, 2020

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Sep 11, 2019—Oct 5, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1	Water	74.0	28.7%
602	Urban land, 0 to 15 percent slopes	5.2	2.0%
603	Urban land, wet substratum, 0 to 3 percent slopes	90.7	35.2%
610	Beaches, sand	10.2	3.9%
627C	Newport-Urban land complex, 3 to 15 percent slopes	28.7	11.2%
655	Udorthents, wet substratum	48.6	18.9%
Totals for Area of Interest	'	257.5	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

Custom Soil Resource Report

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Norfolk and Suffolk Counties, Massachusetts

1—Water

Map Unit Setting

National map unit symbol: vkyp

Mean annual precipitation: 32 to 50 inches Mean annual air temperature: 45 to 50 degrees F

Frost-free period: 120 to 200 days

Farmland classification: Not prime farmland

Map Unit Composition

Water: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

602—Urban land, 0 to 15 percent slopes

Map Unit Setting

National map unit symbol: vkyj

Mean annual precipitation: 32 to 50 inches Mean annual air temperature: 45 to 50 degrees F

Frost-free period: 120 to 200 days

Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 99 percent Minor components: 1 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Setting

Parent material: Excavated and filled land

Minor Components

Rock outcrops

Percent of map unit: 1 percent Hydric soil rating: Unranked

603—Urban land, wet substratum, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: vkyl

Mean annual precipitation: 32 to 50 inches Mean annual air temperature: 45 to 50 degrees F

Custom Soil Resource Report

Frost-free period: 120 to 200 days

Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Setting

Parent material: Excavated and filled land over herbaceous organic material and/or alluvium and/or marine deposits

Minor Components

Udorthents

Percent of map unit: 13 percent Hydric soil rating: Unranked

Beaches

Percent of map unit: 2 percent Hydric soil rating: Unranked

610—Beaches, sand

Map Unit Setting

National map unit symbol: 2y080

Elevation: 0 to 20 feet

Mean annual precipitation: 36 to 71 inches Mean annual air temperature: 39 to 55 degrees F

Frost-free period: 145 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Beaches, sandy surface: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Beaches, Sandy Surface

Setting

Landform: Back-barrier beaches, barrier beaches, beaches, shores

Landform position (two-dimensional): Footslope Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear Parent material: Beach sand

Typical profile

C1 - 0 to 10 inches: sand

Custom Soil Resource Report

Properties and qualities

Slope: 0 to 8 percent Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to very

high (1.42 to 99.90 in/hr)

Depth to water table: About 0 to 12 inches Frequency of flooding: Very frequent

Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)

Available water capacity: Very low (about 0.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydric soil rating: Unranked

Minor Components

Beaches, cobbly surface

Percent of map unit: 8 percent

Landform: Back-barrier beaches, barrier beaches, beaches, shores

Landform position (two-dimensional): Footslope Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear Hydric soil rating: Unranked

Beaches, bouldery surface

Percent of map unit: 2 percent

Landform: Beaches, shores, back-barrier beaches, barrier beaches

Landform position (two-dimensional): Footslope Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear Hydric soil rating: Unranked

627C—Newport-Urban land complex, 3 to 15 percent slopes

Map Unit Setting

National map unit symbol: vkwv

Elevation: 0 to 310 feet

Mean annual precipitation: 32 to 54 inches Mean annual air temperature: 43 to 54 degrees F

Frost-free period: 120 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Newport and similar soils: 70 percent

Urban land: 20 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Newport

Setting

Landform: Drumlins

Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Side slope

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Friable coarse-loamy eolian deposits over dense coarse-loamy

lodgment till derived from metamorphic rock

Typical profile

H1 - 0 to 9 inches: silt loam

H2 - 9 to 26 inches: channery silt loam H3 - 26 to 60 inches: channery silt loam

Properties and qualities

Slope: 3 to 15 percent

Depth to restrictive feature: 20 to 40 inches to densic material

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Depth to water table: About 18 to 30 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: F144AY007CT - Well Drained Dense Till Uplands

Hydric soil rating: No

Description of Urban Land

Setting

Parent material: Excavated and filled land

Minor Components

Paxton

Percent of map unit: 4 percent

Hydric soil rating: No

Pittstown

Percent of map unit: 4 percent

Hydric soil rating: No

Udorthents

Percent of map unit: 2 percent Hydric soil rating: Unranked

655—Udorthents, wet substratum

Map Unit Setting

National map unit symbol: vkyd Elevation: -30 to 310 feet

Mean annual precipitation: 45 to 54 inches Mean annual air temperature: 43 to 54 degrees F

Frost-free period: 145 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Udorthents and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Udorthents

Setting

Landform position (two-dimensional): Footslope, shoulder Landform position (three-dimensional): Tread, riser

Down-slope shape: Linear, convex Across-slope shape: Linear, convex

Parent material: Excavated and filled sandy and gravelly human transported

material over highly-decomposed herbaceous organic material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Minor Components

Urban land

Percent of map unit: 3 percent Hydric soil rating: Unranked

Ipswich

Percent of map unit: 2 percent

Landform: Marshes
Hydric soil rating: Yes

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2 053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

Boston, Massachusetts

APPENDIX B – Project Plans



COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING

Constitution Beach Playground Renovation

Boston, Massachusetts

PERMIT SET

CONTRACT NO. P21-3428-C5A

April 2021



DEPARTMENT OF CONSERVATION & RECREATION

251 Causeway Street, Suite 600 Boston, Massachusetts 02114

GOVERNOR
CHARLES D. BAKER

LIEUTENANT GOVERNOR
KARYN E. POLITO

DCR COMMISSIONER
JIM MONTGOMERY









LOCATION MAP
1"=400'

PROJECT LOCATION

ROBERT LOWELL, DEPUTY CHIEF ENGINEER, DCR

PLAN INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING CONDITIONS & SITE PREPARATION PLAN
4	RESOURCE IMPACT AREAS
5	LAYOUT & MATERIALS PLAN
6	GRADING AND UTILITY PLAN
7	PLANTING PLAN
8	SITE DETAILS - 1
9	SITE DETAILS - 2
10	SITE DETAILS - 3

GENERAL NOTES:

- 1. THE LOCATION OF SUBSURFACE UTILITIES SHOWN IS APPROXIMATE AND NOT GUARANTEED TO BE COMPLETE OR ACCURATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITY LINES AND STRUCTURES PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR MUST NOTIFY DIG SAFE 72 HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR EXPLOSIVE WORK IN PUBLIC OR PRIVATE WAYS OR UTILITY COMPANY RIGHT-OF-WAY OR EASEMENT
- 2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
- 3. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, CABLE TV, FIRE ALARM AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES. ALL UTILITY CASTING SHALL BE ADJUSTED TO FINISH GRADE BY THEIR RESPECTIVE OWNERS.
- 4. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 5. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
- 6. ALL WALKWAYS WHEELCHAIR RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE ARCHITECTURAL ACCESS BOARD (A.A.B.) AND THE AMERICANS WITH DISABILITIES ACT (A.D.A.). AND THE LATEST MASSDOT STANDARDS.
- 7. JOINTS BETWEEN NEW BITUMINOUS CONCRETE PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDED.
- 8. ALL CURB DIMENSIONS ARE TO THE FACE OF THE CURB
- 9. CONTRACTOR SHALL VERIFY EXISTING GRADES. IF ANY ADJUSTMENT IS REQUIRED DUE TO DIFFERENT EXISTING GRADES FOUND IN THE FIELD, THE CONTRACTOR SHALL NOTIFY AND SEEK THE APPROVAL OF THE ENGINEER PRIOR TO PERFORMING THE WORK.
- 10. IN FILL AREAS, TOP SOIL SHALL BE REMOVED FOR A DEPTH OF 12" (MIN.) OR AS DIRECTED BY THE ENGINEER. SUBGRADE AREAS WILL BE COMPACTED PRIOR TO THE PLACEMENT OF FILL MATERIAL.
- 11. SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH MASSDOT REQUIREMENTS AND THE LATEST VERSION OF THE MUTCD.
- 12. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE ORDER OF CONDITIONS ISSUED BY THE CITY OF BOSTON CONSERVATION COMMISSION.
- 13. CONTRACTOR SHALL COMPLY THE THE RELEVANT REQUIREMENTS OF THE RELEASE ABATEMENT MEASURE (RAM) PLAN, AMENDMENT No. 3, DATED MARCH 29, 2019, AS DEVELOPED BY COMPREHENSIVE ENVIRONMENTAL. INC.
- 14. CONTRACTOR SHALL COORDINATE LOCATION OF PLAYGROUND EQUIPMENT FOUNDATIONS AND URETHANE SAEFTY SURFACING WITH THE APPROPRIATE SUPPLIER OR REPRESENTATIVE.

PAVEMENT NOTES

POLYURETHANE SAFETY SURFACING

CONTRACTOR TO COORDINATE LAYOUT AND DEPTHS OF POLYURETHANE SAFETY SURFACING WITH PLAYGROUND MANUFACTURER'S REPRESENTATIVE AND INSTALLER.

CEMENT CONCRETE SIDEWALK / PAD

SURFACE COURSE: 4" CEMENT CONCRETE

(AIR ENTRAINED 4000 PSI, 3/4", 610)

w/ WELDED WIRE MESH

(10-GAUGE, 6"X6") OVER

8" GRAVEL BORROW TYPE b

COMBINATION OF EXISTING

SUITABLE SUB BASE AS APPROVED BY THE ENGINEER

HOT MIX ASPHALT WALK

SUB BASE:

SURFACE COURSE: 4" HMA WALK SURFACE

PLACED IN TWO LAYERS. 1-1/2" TOP COURSE MATERIAL **OVER 2-1/2" BOTTOM COURSE**

MATERIAL

SUB BASE: 8" GRAVEL BORROW TYPE b

> COMBINATION OF EXISTING SUITABLE SUB BASE AS

APPROVED BY THE ENGINEER

GRAVEL BASE

GRAVEL BASE:

ALL 8" GRAVEL BORROW LAYERS TO BE COMPACTED IN 2-4" LIFTS.

LAYOUT NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES THAT AFFECT THE LAYOUT OF PROPOSED WORK TO DCR.
- 2. CONTRACTOR SHALL COORDINATE WITH DCR TO VERIFY LAYOUT OF PLAY STRUCTURES, SAFETY ZONES, PANELS, AND CONCRETE PADS FOR BENCHES WITHIN THE NEW CONCRETE EDGE PRIOR TO FINAL INSTALLATION OF THE CONCRETE EDGE.
- 3. LAYOUT OF PATHWAYS AND CONCRETE EDGE SHALL BE STAKED OUT BY THE CONTRACTOR AND APPROVED BY DCR PRIOR TO EXECUTION OF THE WORK.
- 4. CONTRACTOR MAY BE DIRECTED BY DCR OR EQUIPMENT MANUFACTURER OR REPRESENTATIVE TO INCREASE THE THICKNESS OF THE SAFETY WEARING COURSE UNDER INDIVIDUAL PIECES OF EQUIPMENT.

LANDSCAPE NOTES:

- 1. NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- 2. ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED, OR APPROVED BY THE ENGINEER.
- 3. 3" DEEP PINE BARK MULCH SHALL BE INSTALLED UNDER ALL NEW TREES, SHRUBS, AND VINES, AS SHOWN ON THE PLANS. OR AS REQUIRED BY ENGINEER.
- 4. FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN.
- 5. ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO THE START OF WORK.
- 6. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY SNOW FENCE AS DIRECTED BY THE ENGINEER. ERECT SNOW FENCE AT THE DRIP LINE OF THE TREE. CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS WITHIN THE LANDSCAPE AREAS. ANY DAMAGE TO EXISTING TREES, SHRUBS, OR LAWNS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT.

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT

PROJECT

Massachusetts



COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF **CONSERVATION AND RECREATION**

Constitution Beach Playground Renovation Boston, MA

TITLE

GENERAL NOTES

SURVEY NOTES:

1) THE INFORMATION SHOWN HEREON IS BASED ON AN ON-THE-GROUND SURVEY PERFORMED ON NOVEMBER 11, 2020 BY ALPHA SURVEY GROUP, LLC.

2) THE HORIZONTAL DATUM FOR THIS PROJECT IS THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), CORS ADJUSTMENT (NA2011/GEOID 18 AS DETERMINED BY REDUNDANT GPS OBSERVATIONS MADE ON NOVEMBER 11, 2020 UTILIZING THE MASSACHUSETTS CONTINUOUSLY OPERATING REFERENCE STATION NETWORK (MaCORS).

3) THE VERTICAL DATUM FOR THIS PROJECT IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), CORS ADJUSTMENT (NA2011/GEOID 18) AS DETERMINED BY REDUNDANT GPS OBSERVATIONS MADE ON NOVEMBER 11, 2020 UTILIZING THE MASSACHUSETTS CONTINUOUSLY OPERATING REFERENCE STATION NETWORK (MaCORS).

4) UTILITIES SHOWN HEREON ARE COMPILED FROM A PLAN SET PROVIDED BY THE CLIENT ENTITLED "REHABILITATION OF CONSTITUTION BEACH, EAST BOSTON, MA" DATED 1/23/98 PREPARED BY BROWN AND ROWE, INC.. FOR MDC.

UTILITY NOTE:

ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE ONLY AND WERE COMPILED ACCORDING TO RECORD PLANS PROVIDED BY THE CLIENT. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. BEFORE DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACK FILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING, ALL UTILITY COMPANIES, PUBLIC & PRIVATE. MUST BE NOTIFIED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. PUBLIC ACT #87-71 OF THE CONNECTICUT STATE STATUTES. ALPHA SURVEY GROUP, LLC ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE FUTURE CONNECTIONS, THE APPROPRIATE UTILITY ENGINEERING DEPARTMENTS MUST BE CONSULTED. CALL "DIG SAFE" AT 811.

EXISTING CONDITIONS SURVEY PERFORMED BY ALPHA SURVEY GROUP, LLC ON NOVEMBER 2020.

EXISTING DRAWING LEGEND

	IIIO EEOEIID
'ATER GATE	WG
ATER SHUT OFF	*
IRE HYDRANT	**
RAIN MANHOLE	0
EWER MANHOLE	S
ATCH BASIN	
ATCH BASIN (ROUND)	#
AND HOLE	HH
IGHT POLE	*
REE (SIZE INCHES)	0
USH (SIZE FEET)	9
RAIN LINE	D
EWER LINE	
LECTRIC LINE	——E——
ATER LINE	——— W———
ETAL WIRE FENCE	—X—X—
RUSH	
ONCRETE	CONC.
ITUMINOUS	BIT.
POT GRADE	X 100.00
ETECTABLE WARNING PAD	ADA
OUND	(F)
ECORD	(R)
RILL HOLE	DH
IAG NAIL	MAG
ENCHMARK	+
RAVERSE (CONTROL) POINT	\triangle
IGN	- o -

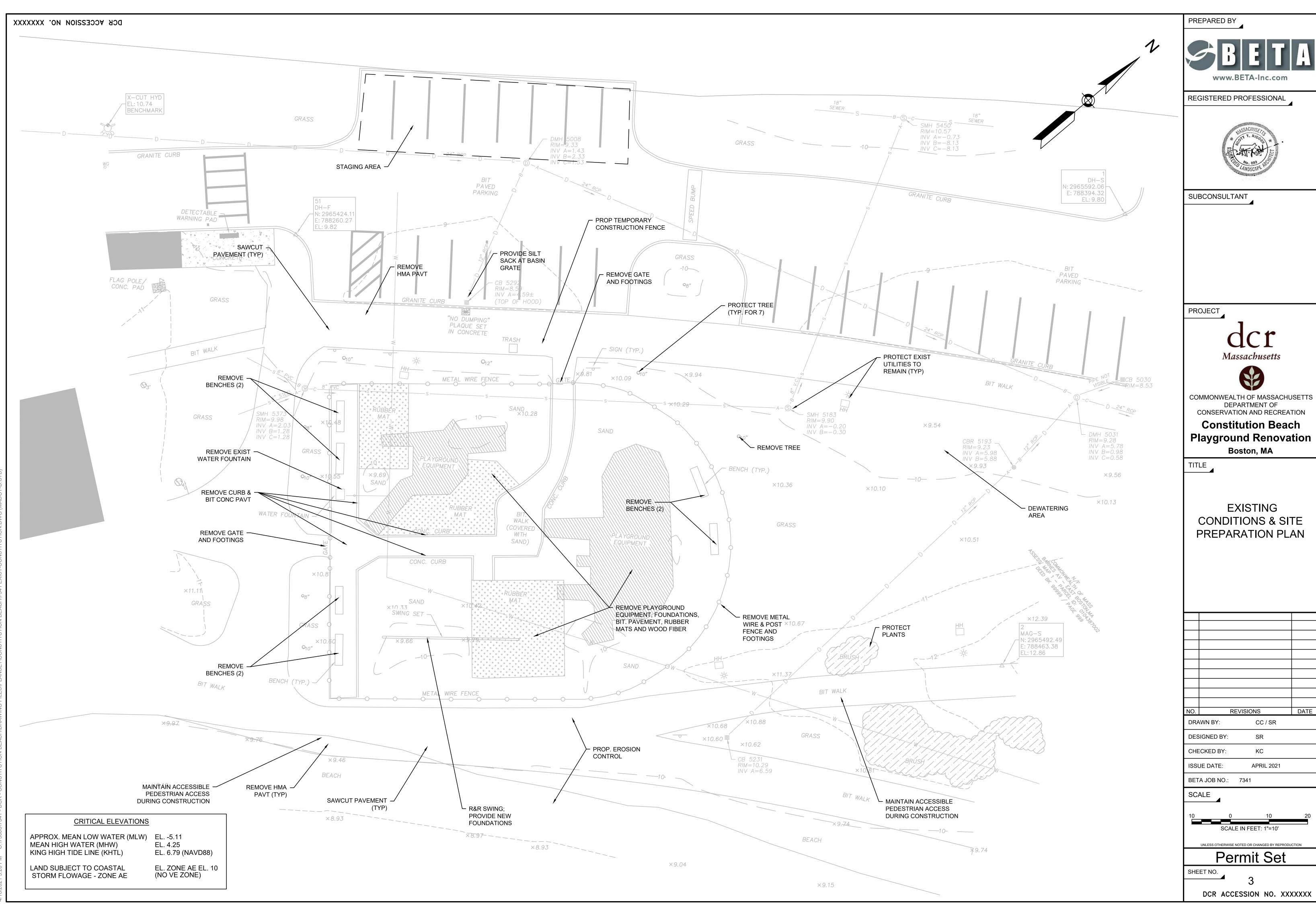
NO.	R	EVISIONS
	AWN BY:	CC /
DES	SIGNED BY:	SR
CHE	ECKED BY:	KC
ISSI	JE DATE:	APRIL
BET	A JOB NO.:	7341
SC	ALE	
10	0	1
_	SCAL	E IN FEET: 1"
	UNLESS OTHERWISE	
	<u>Pe</u>	rmit S
SHE	ET NO	

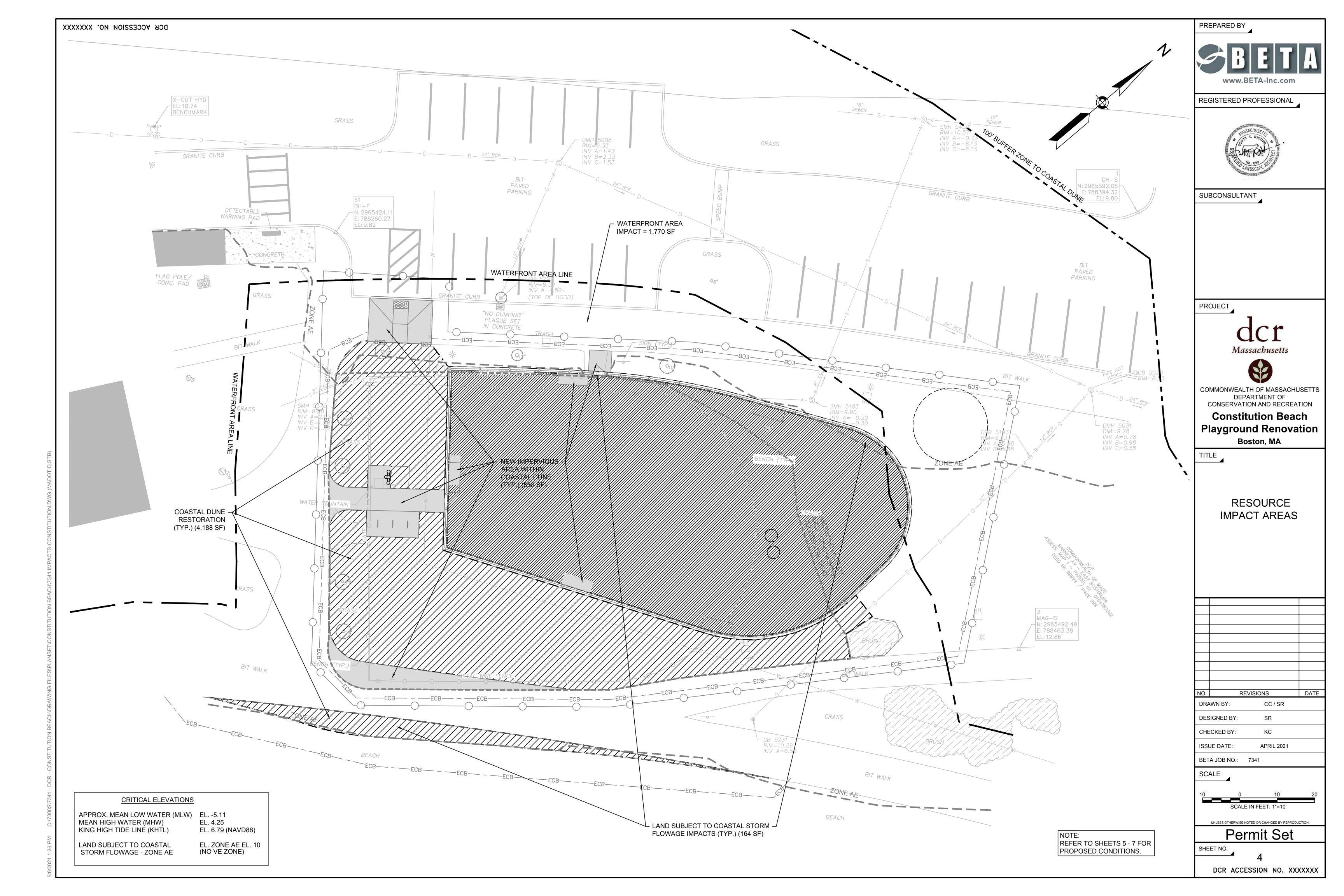
J FEET: 1"=10' OR CHANGED BY REPRODUCTION nit Set DCR ACCESSION NO. XXXXXXX

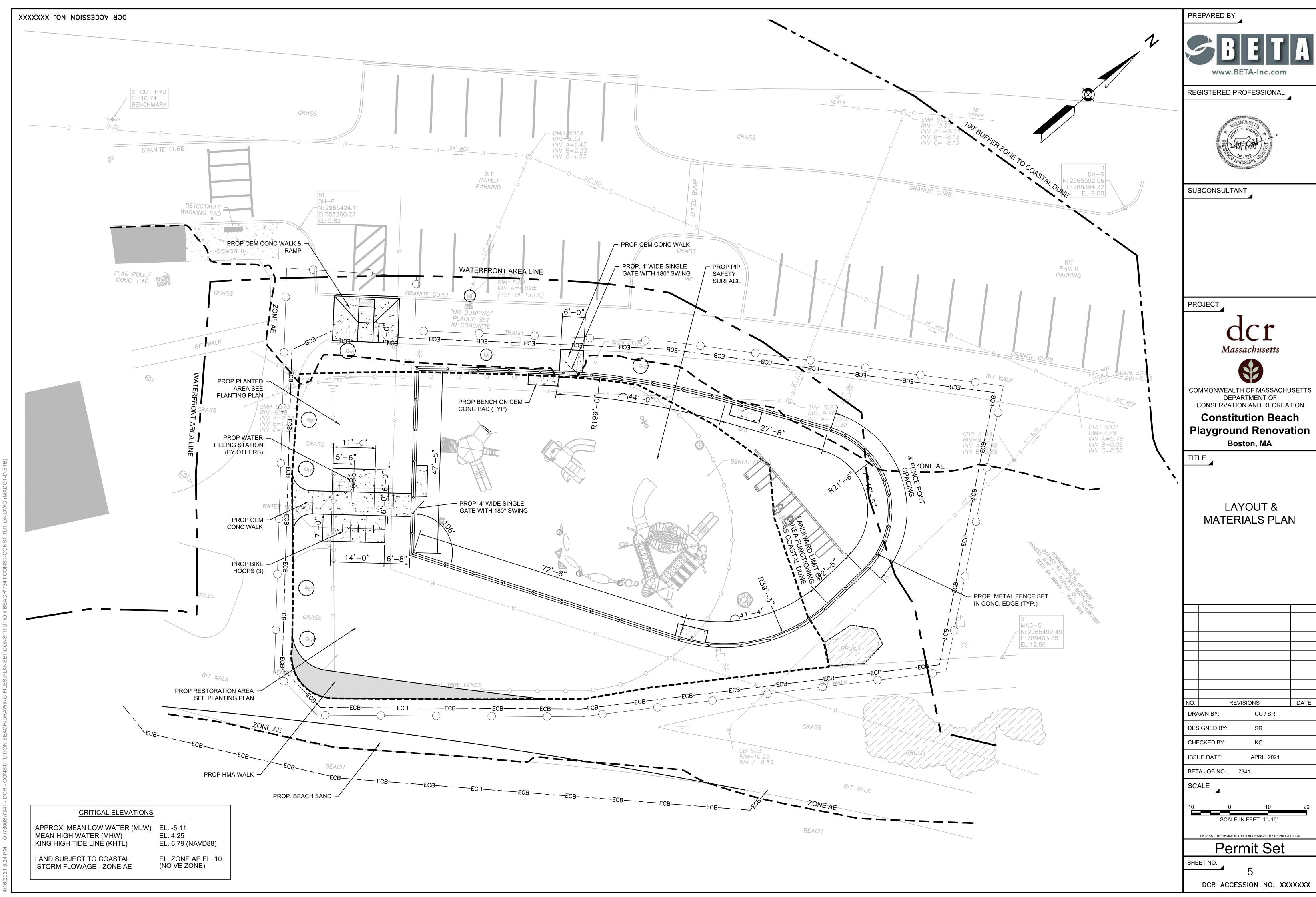
CC / SR

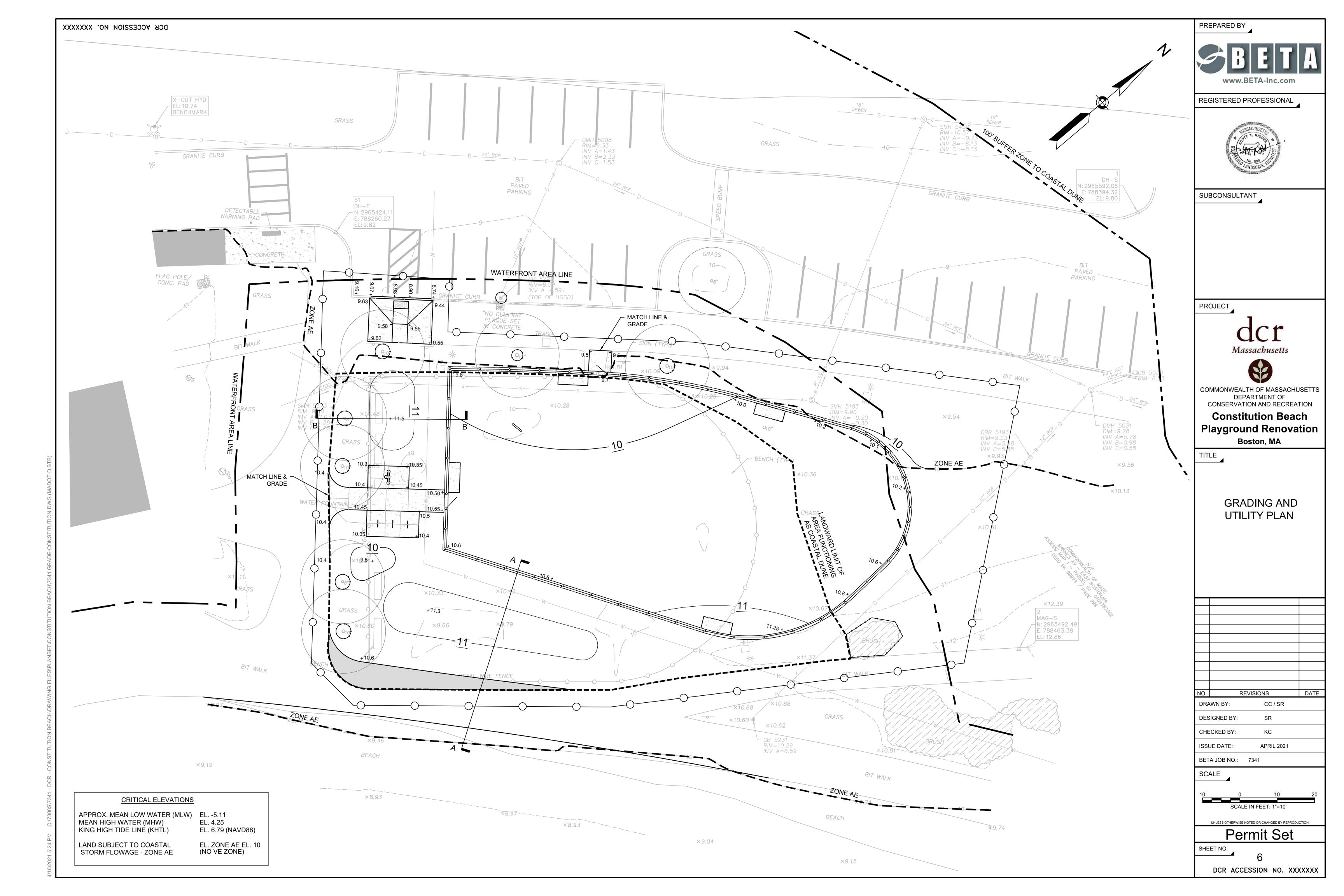
APRIL 2021

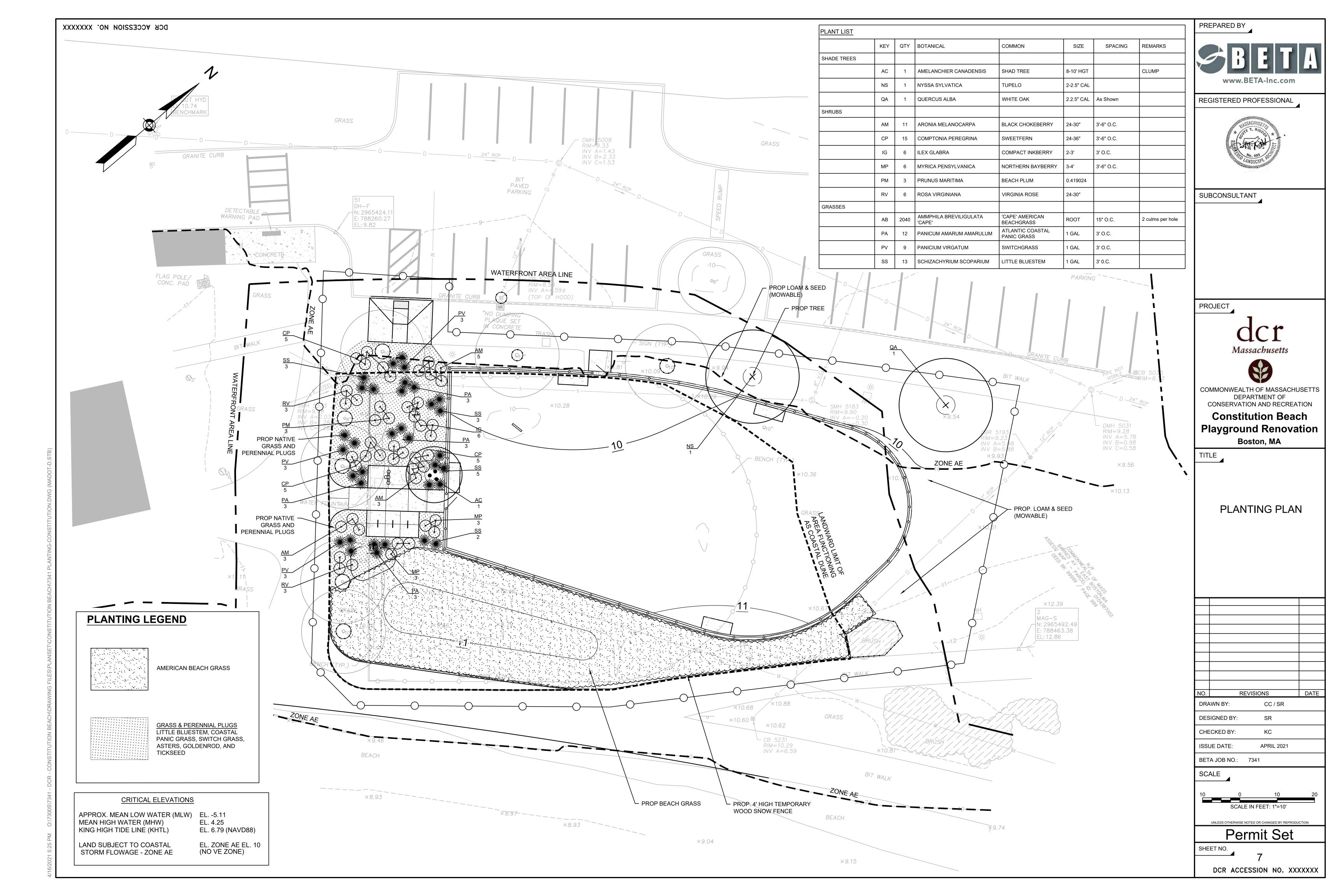
I DATE

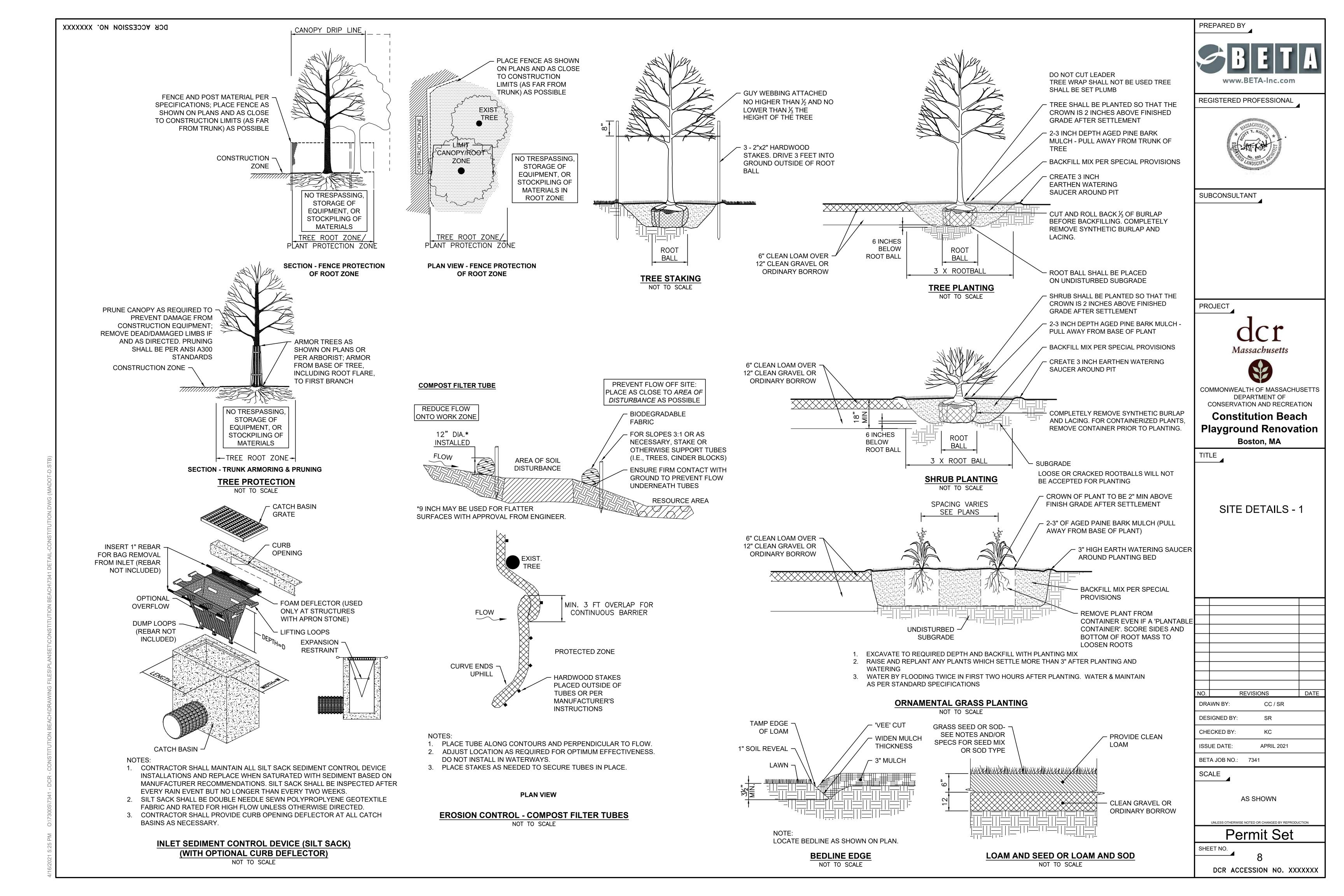


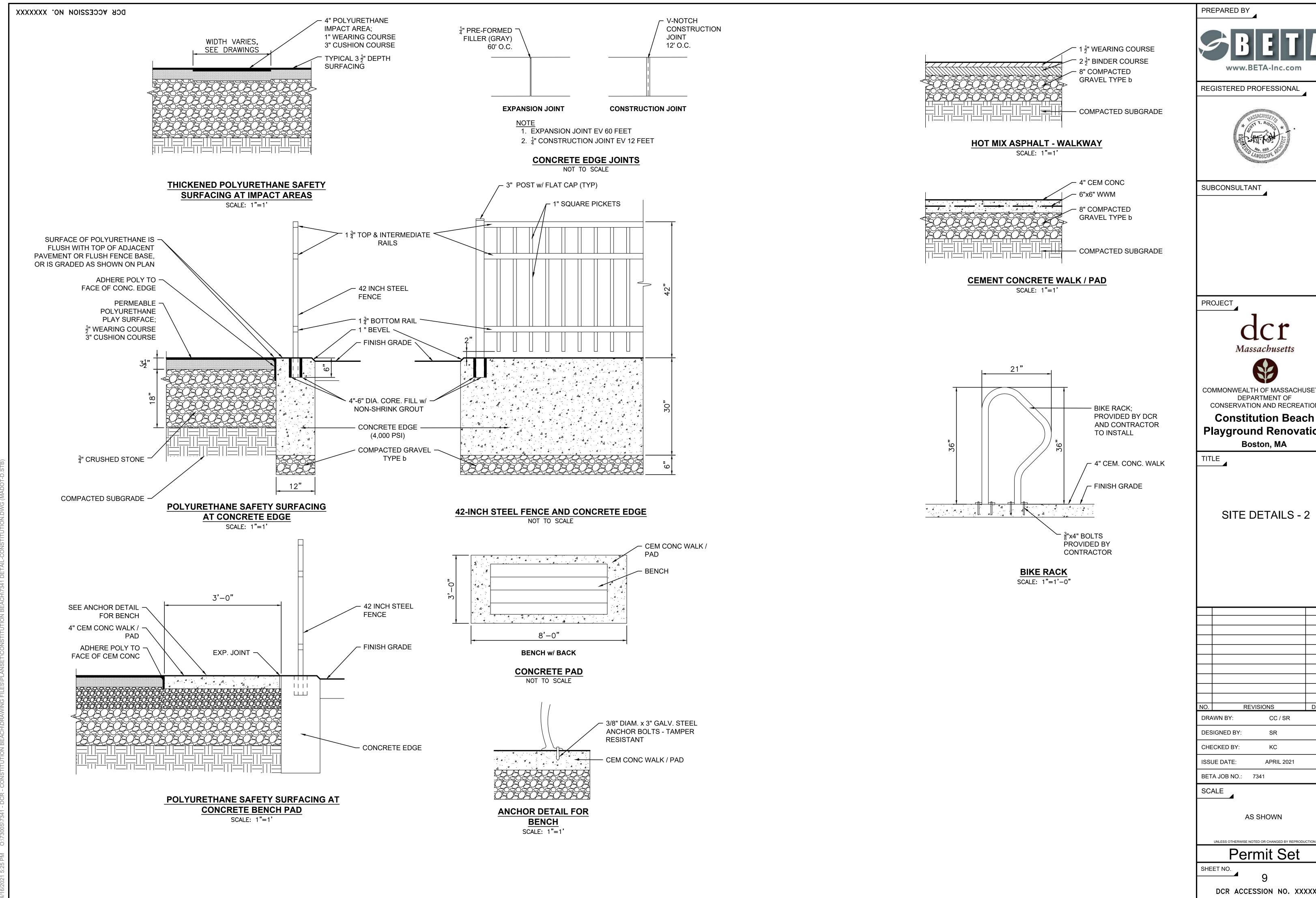












REGISTERED PROFESSIONAL



Massachusetts

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION

Playground Renovation Boston, MA

SITE DETAILS - 2

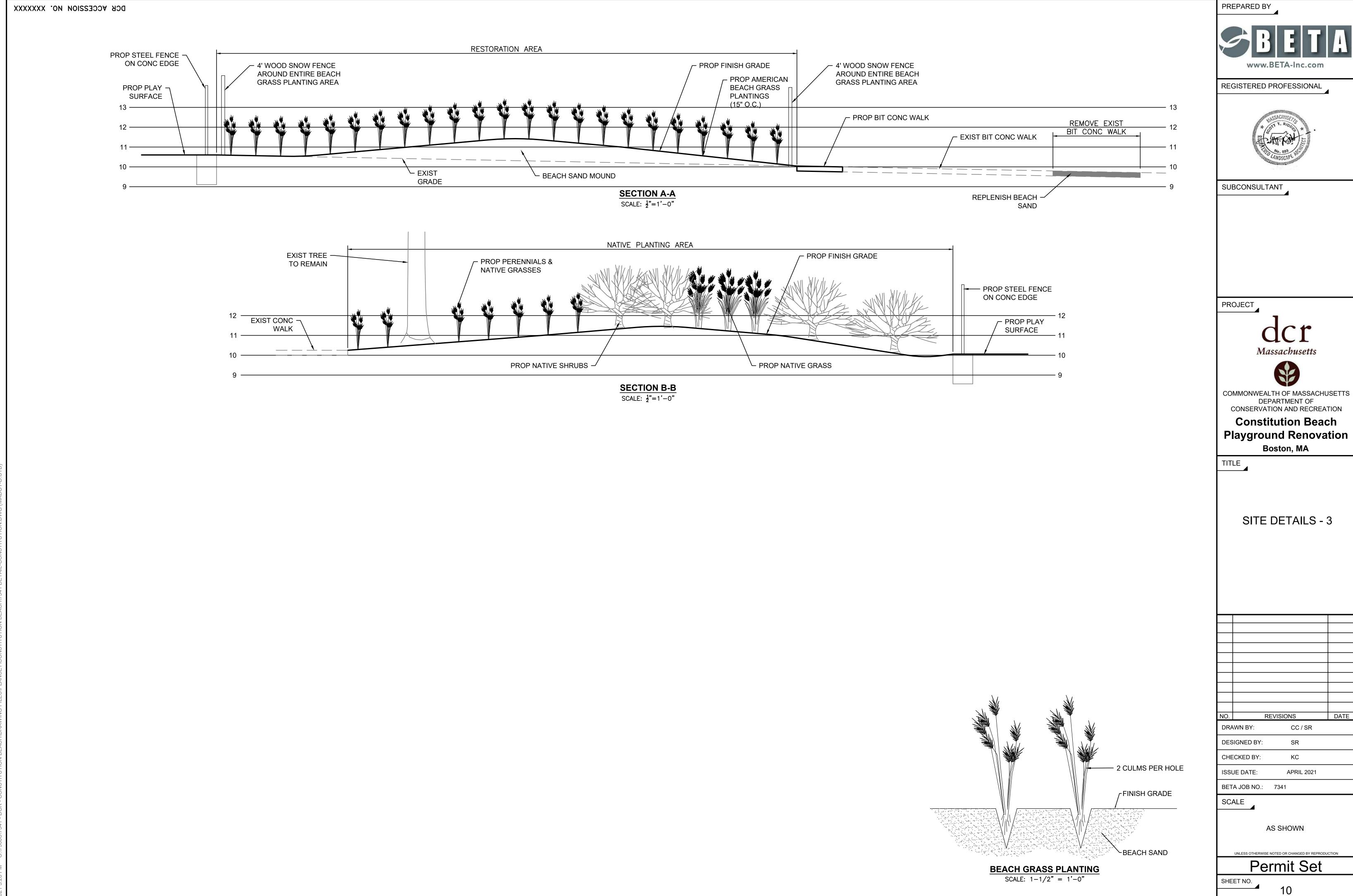
REVISIONS DATE CC / SR SR KC

APRIL 2021

AS SHOWN

Permit Set

DCR ACCESSION NO. XXXXXXX



DATE

DCR ACCESSION NO. XXXXXXX

Boston, Massachusetts

APPENDIX C – Stormwater Management Report





Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

A. Introduction

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





A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals. This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature

3	WILLIH OF MASEA
300	MATTHEW J. CROWLEY CIVIL
1	No. 51325
	SSIONAL ER

Mattay 4/29/21
Signature and Date

Checklist

	oject Type: Is the application for new development, redevelopment, or a mix of new and evelopment?
	New development
\boxtimes	Redevelopment
	Mix of New Development and Redevelopment



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

Checklist for Stormwater Report

Checklist (continued)

env	environmentally sensitive design and LID Techniques were considered during the planning and design of the project:			
	No disturbance to any Wetland Resource Areas			
	Site Design Practices (e.g. clustered development, reduced frontage setbacks)			
\boxtimes	Reduced Impervious Area (Redevelopment Only)			
\boxtimes	Minimizing disturbance to existing trees and shrubs			
	LID Site Design Credit Requested:			
	☐ Credit 1			
	☐ Credit 2			
	☐ Credit 3			
\boxtimes	Use of "country drainage" versus curb and gutter conveyance and pipe			
	Bioretention Cells (includes Rain Gardens)			
	Constructed Stormwater Wetlands (includes Gravel Wetlands designs)			
	Treebox Filter			
	Water Quality Swale			
	Grass Channel			
	Green Roof			
\boxtimes	Other (describe): Installation of native plantings			
Sta	ndard 1: No New Untreated Discharges			
	No new untreated discharges			
	Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth			
	Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.			



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

Checklist (continued) Standard 2: Peak Rate Attenuation Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding. Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm. Calculations provided to show that post-development peak discharge rates do not exceed predevelopment rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24hour storm. Standard 3: Recharge Soil Analysis provided. Required Recharge Volume calculation provided. Required Recharge volume reduced through use of the LID site Design Credits. Sizing the infiltration, BMPs is based on the following method: Check the method used. Static Simple Dynamic Dynamic Field¹ Runoff from all impervious areas at the site discharging to the infiltration BMP. Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume. Recharge BMPs have been sized to infiltrate the Required Recharge Volume. Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason: Site is comprised solely of C and D soils and/or bedrock at the land surface Solid Waste Landfill pursuant to 310 CMR 19.000 Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable. Calculations showing that the infiltration BMPs will drain in 72 hours are provided. Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



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

Checklist for Stormwater Report

Cł	necklist (continued)
Sta	andard 3: Recharge (continued)
	The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
	Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.
Sta	indard 4: Water Quality
The	E Long-Term Pollution Prevention Plan typically includes the following: Good housekeeping practices; Provisions for storing materials and waste products inside or under cover; Vehicle washing controls; Requirements for routine inspections and maintenance of stormwater BMPs; Spill prevention and response plans; Provisions for maintenance of lawns, gardens, and other landscaped areas; Requirements for storage and use of fertilizers, herbicides, and pesticides; Pet waste management provisions; Provisions for operation and management of septic systems; Provisions for solid waste management; Snow disposal and plowing plans relative to Wetland Resource Areas; Winter Road Salt and/or Sand Use and Storage restrictions; Street sweeping schedules; Provisions for prevention of illicit discharges to the stormwater management system; Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL; Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan; List of Emergency contacts for implementing Long-Term Pollution Prevention Plan. A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent. Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge: is within the Zone II or Interim Wellhead Protection Area
	is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
	involves runoff from land uses with higher potential pollutant loads.
	The Required Water Quality Volume is reduced through use of the LID site Design Credits.

☐ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if

applicable, the 44% TSS removal pretreatment requirement, are provided.



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

Checklist for Stormwater Report

Checklist (continued)			
Standard 4: Water Quality (continued)			
☐ The BMP is sized (and calculations provided) based on:			
☐ The ½" or 1" Water Quality Volume or			
The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.			
The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.			
A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.			
Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)			
 The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report. The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted <i>prior</i> to the discharge of stormwater to the post-construction stormwater BMPs. 			
LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.			
All exposure has been eliminated.			
All exposure has <i>not</i> been eliminated and all BMPs selected are on MassDEP LUHPPL list.			
☐ The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.			
Standard 6: Critical Areas			
The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.			



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
Limited Project
 Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area. Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
☐ Bike Path and/or Foot Path
□ Redevelopment Project
☐ Redevelopment portion of mix of new and redevelopment.
Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report. The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
- Construction Period Operation and Maintenance Plan;
- Names of Persons or Entity Responsible for Plan Compliance;
- Construction Period Pollution Prevention Measures:
- Erosion and Sedimentation Control Plan Drawings;
- Detail drawings and specifications for erosion control BMPs, including sizing calculations;
- Vegetation Planning;
- Site Development Plan;
- Construction Sequencing Plan;
- Sequencing of Erosion and Sedimentation Controls;
- Operation and Maintenance of Erosion and Sedimentation Controls;
- Inspection Schedule;
- Maintenance Schedule;
- Inspection and Maintenance Log Form.
- A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



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

Checklist for Stormwater Report

Checklist (continued)

	Indard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control ntinued)
	The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has <i>not</i> been included in the Stormwater Report but will be submitted <i>before</i> land disturbance begins.
\boxtimes	The project is <i>not</i> covered by a NPDES Construction General Permit.
	The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
	The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.
Sta	ndard 9: Operation and Maintenance Plan
	The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
	☐ Name of the stormwater management system owners;
	☐ Party responsible for operation and maintenance;
	☐ Schedule for implementation of routine and non-routine maintenance tasks;
	☐ Plan showing the location of all stormwater BMPs maintenance access areas;
	☐ Description and delineation of public safety features;
	☐ Estimated operation and maintenance budget; and
	☐ Operation and Maintenance Log Form.
	The responsible party is <i>not</i> the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
	A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
	A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.
Sta	ndard 10: Prohibition of Illicit Discharges
	The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
	An Illicit Discharge Compliance Statement is attached;
	NO Illicit Discharge Compliance Statement is attached but will be submitted <i>prior to</i> the discharge of any stormwater to post-construction BMPs.

STORMWATER MANAGEMENT CHECKLIST NARRATIVE CONSTITUTION BEACH PLAYGROUND IMPROVEMENTS, BOSTON, MA

March 2021

The Massachusetts Department of Conservation and Recreation (DCR) is proposing improvements to the existing Constitution Beach Playground in Boston, MA. Proposed work includes reconfiguring and resurfacing the play area, removing and reconfiguring bituminous walkways, constructing concrete walkways, minor grading, and restoration with native plantings (the Project). Although new impervious area is proposed within locations that are currently grass or sand, the Project will result in a net reduction of approximately 844 square feet in impervious area. Minor grading is proposed to accommodate the new play area configuration.

The following is a narrative outlining the Stormwater Management Standards and their relation to the proposed Project. The Project is considered a Redevelopment Project under the Massachusetts Stormwater Management Standards per the definition at 310 CMR 10.04 under the following category: "development, rehabilitation, expansion and phased projects on previously developed sites provided the redevelopment results in no net increase in impervious area".

LID Measures:

The Project includes an approximately 844-square foot reduction in impervious area and will use a porous pour-in-place rubber to surface the new play area. In addition, existing vegetation will be retained, and a substantial native planting plan will be implemented. The following specific LID Measures were considered in the planning and design of the Project:

- Reduced impervious area (Redevelopment Only);
- Minimizing disturbance to existing trees and shrubs, and;
- Use of "country drainage" versus curb and gutter conveyance and pipe.

Standard 1: No New Untreated Discharges

No new discharges to Wetland Resource Areas will result from the Project and existing overland flows over surfaces with minimal slope will not cause erosion – <u>Project complies.</u>

Standard 2: Peak Rate Attenuation

The Project will decrease impervious coverage at the Site and will provide substantial plantings in areas that are currently unvegetated; therefore, the Project is not anticipated to increase the peak rate of runoff leaving the Site – <u>Project complies</u>.



STORMWATER MANAGEMENT CHECKLIST NARRATIVE CONSTITUTION BEACH PLAYGROUND IMPROVEMENTS, BOSTON, MA

Standard 3: Recharge

Stormwater best management practices to recharge runoff are not proposed by the Project. However, due to a net reduction of impervious surfaces, the Project is anticipated to increase groundwater recharge when compared to existing conditions – Project complies to the maximum extent practicable.

Standard 4: Water Quality

The Site is located within the Winthrop Bay segment (MA70-10) of the Boston Harbor subwatershed. This subwatershed is subject to a TMDL for pathogens, with indicators including Enterococci and Fecal Coliform. Pathogen sources include combined sewer overflows, sanitary sewer overflows, and wastewater treatment plant discharges. The Project is not anticipated to be a measurable contributor of pathogens within the subwatershed.

Stormwater best management practices to treat runoff are not proposed by the Project. However, due to a net reduction in impervious surface coverage, the Project is anticipated to improve water quality at the Site by increasing the volume of groundwater recharge – <u>Project complies to the maximum extent practicable.</u>

Standard 5: Land Uses with Higher Potential Pollutant Loads (LUHPPLs)

The Project does not propose Land Uses with Higher Potential Pollutant Loads – <u>Standard not applicable.</u>

Standard 6: Critical Areas

The Project is located near a "Bathing Beach" as defined at 105 CMR 445.010, which is considered a critical area. Water quality treatment BMPs are not proposed, but the Project will reduce impervious surface coverage at the Site – <u>Project complies to the maximum extent practicable.</u>

Standard 7: Redevelopment

As noted above, the Project is considered a Redevelopment Project as "development, rehabilitation, expansion and phased projects on previously developed sites provided the redevelopment results in no net increase in impervious area". The Project will fully comply with Standards 1, 2, and 8, will comply to the maximum extent practicable with Standards 3, 4, and 6 and will improve existing conditions. Standards 5, 9, and 10 are not applicable — Project complies.



STORMWATER MANAGEMENT CHECKLIST NARRATIVE CONSTITUTION BEACH PLAYGROUND IMPROVEMENTS, BOSTON, MA

Standard 8: Construction Period Pollution Prevention and Erosion and Sediment Control

This Project will not disturb more than an acre of land; therefore, a Stormwater Pollution Prevention Plan (SWPPP) is not required to be completed and submitted as part of a Notice of Intent (NOI) to the Environmental Protection Agency (EPA). The Project will provide erosion and sedimentation controls as shown on the Project Plans and will include compost filter tubes, siltation fencing, and jute netting. All erosion controls will be maintained in good working order until stabilization at the Site is achieved. Erosion and sedimentation control measures are also summarized in the attached Notice of Intent – <u>Project complies</u>.

Standard 9: Long Term Operation and Maintenance Plan

The Project does not propose the construction of any stormwater management infrastructure that would require a Long-Term Operation and Maintenance Plan (O+M) – <u>Standard not applicable</u>.

Standard 10: Prohibition of Illicit Discharges

The Project does not propose to construct any new discharges, and no illicit discharges were observed in the field – Standard not applicable.

