



MASSACHUSETTS WATER RESOURCES AUTHORITY

Chelsea Facility
2 Griffin Way
Chelsea, Massachusetts 02150

Telephone: (617) 242-6000
Facsimile: (617) 305-5990

Frederick A. Laskey
Executive Director

April 14, 2022

Mr. Nicholas Moreno
Boston Conservation Commission
1 City Hall Square, Room 709
Boston, MA 02201

Re: Notice of Intent – Siphon Structure I – N. Beacon Street

Dear Mr. Moreno and Members of the Conservation Commission,

The Massachusetts Water Resources Authority (MWRA) will be performing necessary maintenance and repair activities to improve flood protection, site access, structural conditions, operational requirements, and odor control for selected sewer siphon and junction structures in the MWRA wastewater system as part of the Siphon/Junction Structure Rehabilitation Project (Project). The attached Notice of Intent is for MWRA's Sewer Section 211, Station 00+26 (referred to as Structure I). The structure is located within a 100-foot wetland buffer zone and 25-foot riverfront protection area.

The notice of intent is being submitted under the Massachusetts Wetlands Protection Act. MWRA is claiming an exemption from the municipal bylaw. MWRA's enabling act, Chapter 372 of the Acts of 1984, exempts it from local wetland bylaws. The section including this exemption is as follows:

SECTION 3

There is hereby created and placed in the executive office of environmental affairs a body politic and corporate and a public instrumentality to be known as the Massachusetts Water Resources Authority, which shall be an independent public authority not subject to the supervision or control of the executive office of environmental affairs or of any other executive office, department, commission, board, bureau, agency or political subdivision of the commonwealth except to the extent and in the manner provided in this act. The exercise by the Authority of the powers conferred by this act shall be deemed to be the performance of an essential public function.

We appreciate your time and look forward to working with you on this important Project. Please do not hesitate to contact the Project Manager, Milan Horbaczewski at Milan.Horbaczewski@mwra.com if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "John Colbert".

John Colbert, PE Chief Engineer

cc: Rebecca Weidman, Director of Environmental & Regulatory Affairs, MWRA
Milan Horbaczewski, PE, Program Manager, MWRA
Michael Cunningham, PE, Kleinfelder
Eileen Piskura, Kleinfelder
Rachel Freed, Massachusetts Department of Environmental Protection
Kate Oetheimer, Assistant Conservation Agent, City of Boston

Attachments

Appendix A: WPA Form 3 – Notice of Intent

Appendix B: Figures

Figure 1: USGS Locus Map

Figure 2: FEMA Flood Map

Figure 3: Existing Site Plan Structure L

Figure 4: Proposed Site Plan Structure L

Appendix C: Project Narrative

Appendix D: Affidavit of Service, List of Abutters, and Notification Form

Appendix E: Wetland Delineation Report

Appendix F: NOI Fee Transmittal Form and Copy of Fee Checks

APPENDIX A

WPA Form 3 – Notice of Intent



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

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

1. Project Location (**Note:** electronic filers will click on button to locate project site):

N Beacon Street
a. Street Address

Boston
b. City/Town

02135
c. Zip Code

Latitude and Longitude:
42.360430
d. Latitude

-71.152231
e. Longitude

2202748000
f. Assessors Map/Plat Number

g. Parcel /Lot Number

2. Applicant:

John
a. First Name

Colbert
b. Last Name

Massachusetts Water Resources Authority (MWRA)
c. Organization

100 First Avenue, Building 39
d. Street Address

Boston
e. City/Town

MA
f. State

02129
g. Zip Code

John.Colbert@MWRA.com
j. Email Address

h. Phone Number

i. Fax Number

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

Priscilla
a. First Name

Geigis
b. Last Name

Deputy Commissioner of the Department of Conservation and Recreation
c. Organization

251 Causeway Street, Suite 600
d. Street Address

Boston
e. City/Town

MA
f. State

02114
g. Zip Code

617-626-1250
h. Phone Number

i. Fax Number

priscilla.geigis@mass.gov
j. Email address

4. Representative (if any):

Christine
a. First Name

Walsh
b. Last Name

CDW Consultants, Inc.
c. Company

6 Huron Drive
d. Street Address

Natick
e. City/Town

MA
f. State

01760
g. Zip Code

508-813-4257
h. Phone Number

i. Fax Number

cwalsh@cdwconsultants.com
j. Email address

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

\$500
a. Total Fee Paid

\$267.50
b. State Fee Paid

\$262.50
c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

The MWRA is planning to perform sewer structure upgrades and create access routes to the structures as needed. Three structures are located within the City of Boston and a Notice of Intent will be submitted individually for each structure. The structure subject to this Notice of Intent is Sewer Section 211, Station 00+26.

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

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

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

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

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Suffolk

a. County

17127

c. Book

b. Certificate # (if registered land)

26

d. Page Number

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

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

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



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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	<u>0 (no alteration proposed)</u> 1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	<u>0 (no alteration proposed)</u> 1. square feet <u>0</u> 3. cubic feet of flood storage lost	2. square feet 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input checked="" type="checkbox"/> Riverfront Area	<u>Charles River (inland)</u> 1. Name of Waterway (if available) - specify coastal or inland	

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: 540 square feet

4. Proposed alteration of the Riverfront Area:

540 a. total square feet 540 b. square feet within 100 ft. 0 c. square feet between 100 ft. and 200 ft.

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

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

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

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



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

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

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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	

4. Restoration/Enhancement
If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

a. square feet of BVW

b. square feet of Salt Marsh

5. Project Involves Stream Crossings

a. number of new stream crossings

b. number of replacement stream crossings



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C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581**

8/1/2021

- b. Date of map _____

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

- c. Submit Supplemental Information for Endangered Species Review*

1. Percentage/acreage of property to be altered:

(a) within wetland Resource Area _____
percentage/acreage

(b) outside Resource Area _____
percentage/acreage

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

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

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

(b) Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/endangered-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.



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

- (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 **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

- (d) Vegetation cover type map of site

- (e) Project plans showing Priority & Estimated Habitat boundaries

- (f) OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <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" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

- a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and
the Cape & Islands:

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. Is this an aquaculture project? d. Yes No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



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Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Boston
City/Town

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

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

- 4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
 a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
 b. ACEC

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

D. Additional Information

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

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

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

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



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D. Additional Information (cont'd)

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

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

Proposed Access Road Site Plan (90% Design)

a. Plan Title

Rishabh Iyer

b. Prepared By

October 2021

d. Final Revision Date

c. Signed and Stamped by

1" = 20'

e. Scale

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. Attach NOI Wetland Fee Transmittal Form

9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

26426

2. Municipal Check Number

26422

4. State Check Number

CDW Consultants, Inc.

6. Payor name on check: First Name

3/3/2022

3. Check date

3/3/2022

5. Check date

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

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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.

<p><i>John Collett</i> _____ 1. Signature of Applicant</p> <p><i>Frank Maggi</i> _____ 3. Signature of Property Owner (if different)</p> <p><i>Christine Walsh</i> _____ 5. Signature of Representative (if any)</p>	<p>2/28/2022 _____ 2. Date</p> <p>5/11/22 _____ 4. Date</p> <p>5/16/22 _____ 6. Date</p>
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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.

APPENDIX B

Figures

USGS Locus Map – Structure L
 Boston, MA
 Massachusetts Water Resources Authority



Legend

Site Location



Sources: MassGIS, FEMA, Klienfelder



FEMA Flood Zone Map – Structure L
 Boston, MA
 Massachusetts Water Resources Authority

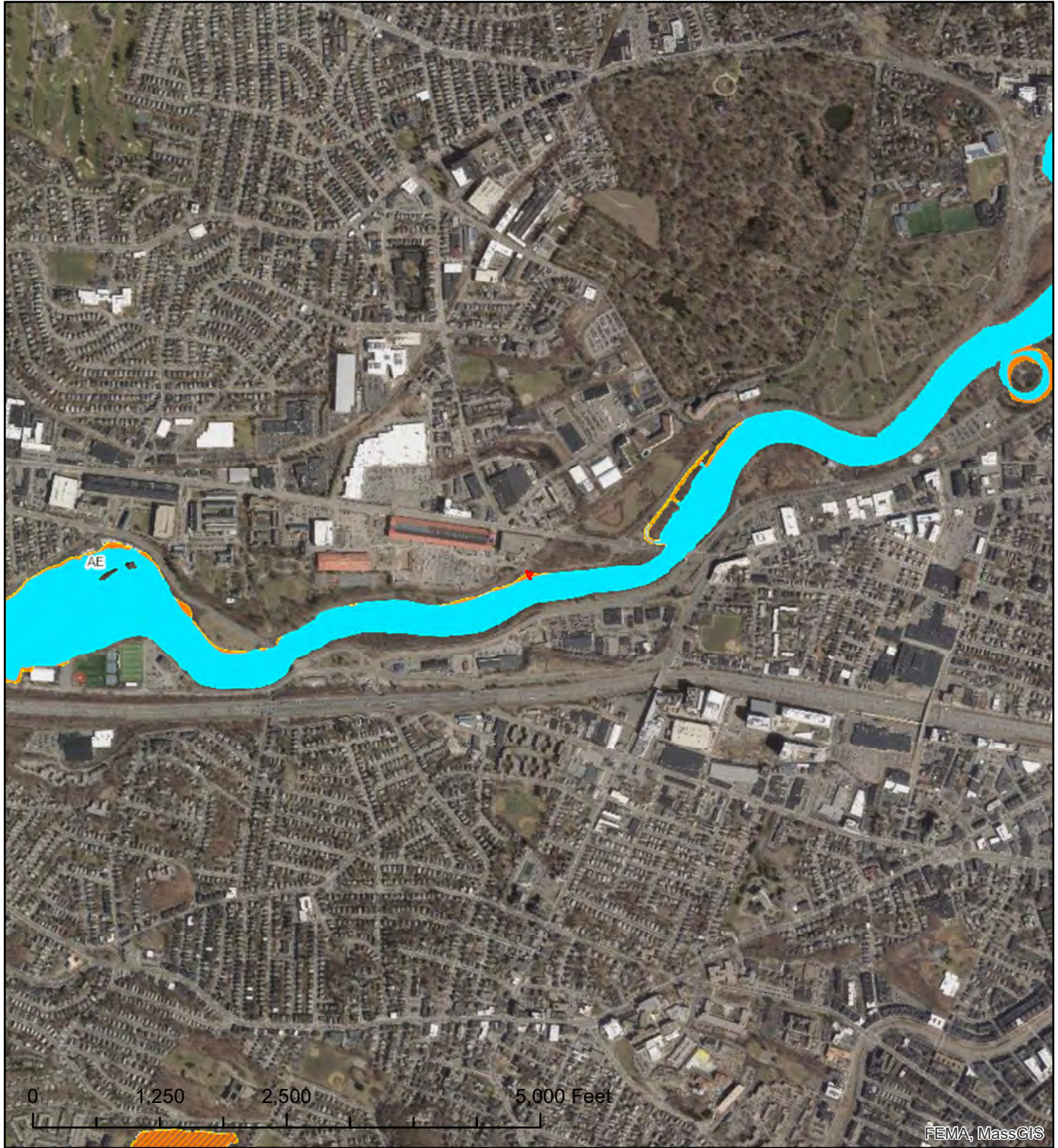
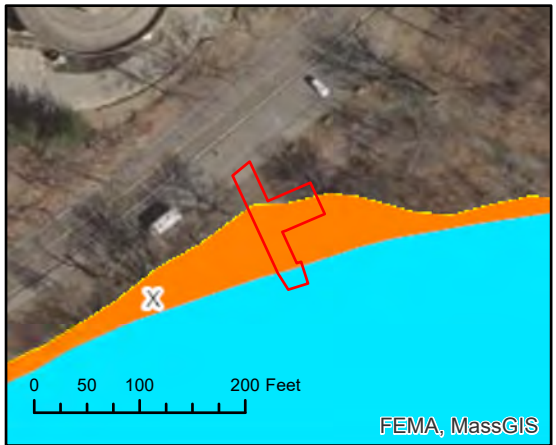


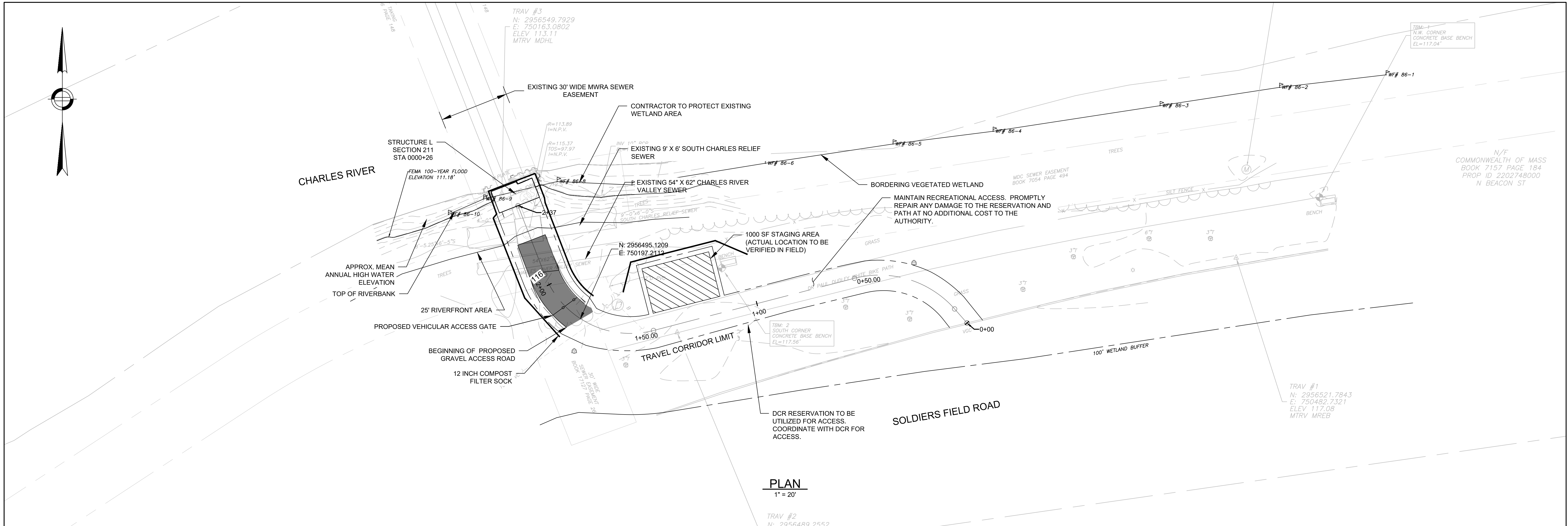
Legend
FEMA National Flood Hazard Layer Legend
Flood Zone Designations

- A: 1% Annual Chance of Flooding, no BFE
- AE: 1% Annual Chance of Flooding, with BFE
- AE: Regulatory Floodway
- AH: 1% Annual Chance of 1-3ft Ponding, with BFE
- AO: 1% Annual Chance of 1-3ft Sheet Flow Flooding, with Depth
- VE: High Risk Coastal Area
- D: Possible But Undetermined Hazard
- X: 0.2% Annual Chance of Flooding
- X: 1% Drainage Area < 1 Sq. Mi.
- X: Reduced Flood Risk due to Levee
- Area Not Included
- Area with no DFIRM - Paper FIRMs in Effect
- Site Location



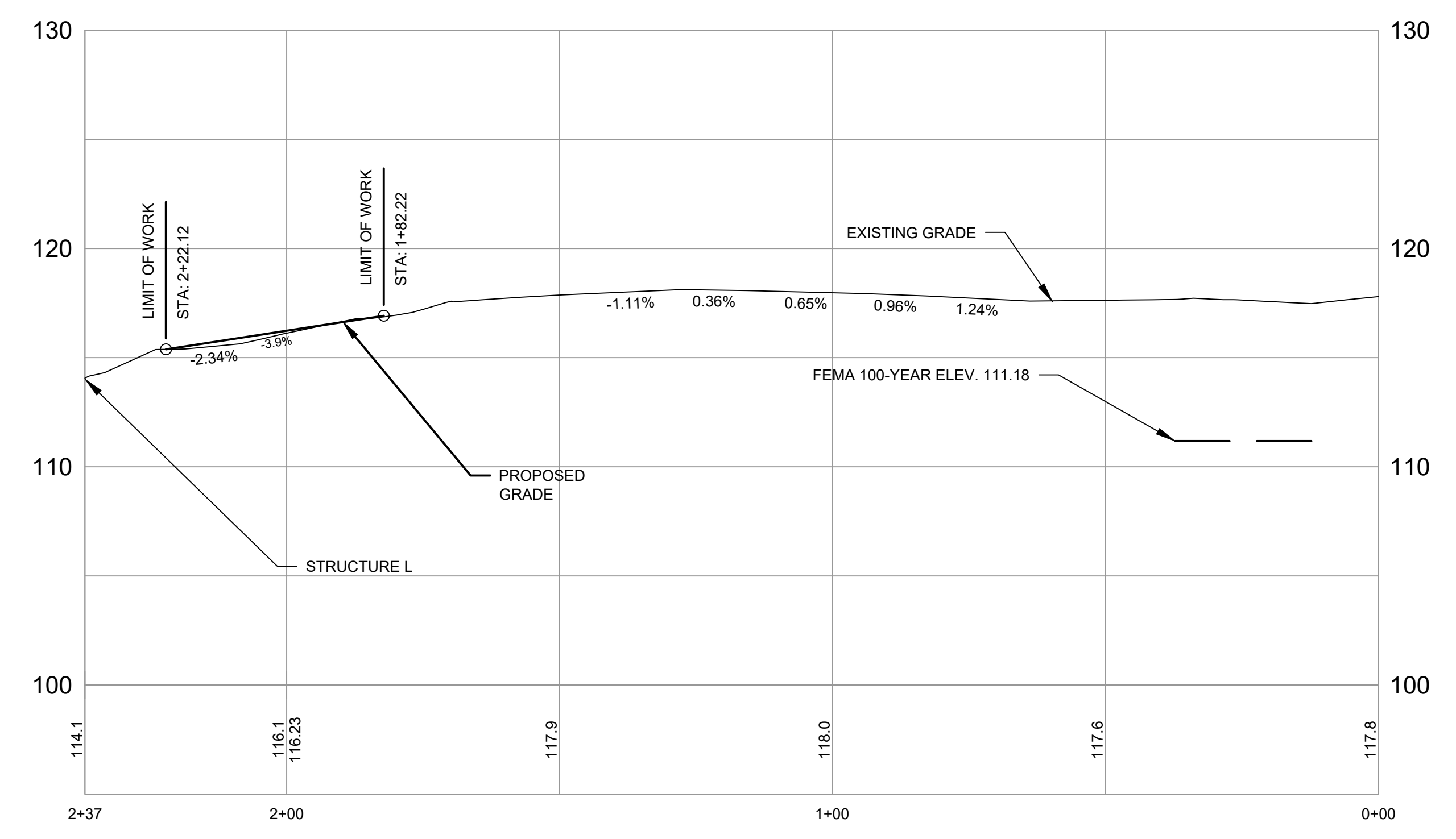
Sources: MassGIS, FEMA, Klienfelder



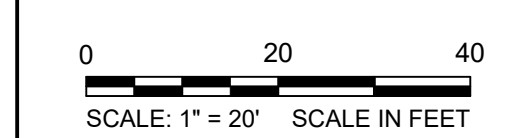


PLAN
1" = 20'

- NOTES:**
- CONTRACTOR SHALL CLEAR AND GRUB EXISTING VEGETATION 20' CENTERED ON THE ACCESS ROAD AND 2' BEYOND OTHER AREAS WITHIN THE LIMIT OF WORK AS NEEDED TO FACILITATE THE WORK.
 - CONTRACTOR SHALL USE THE PROPOSED ACCESS ROAD CORRIDOR WHENEVER FEASIBLE. ANY DISTURBANCE OUTSIDE THE LIMIT OF WORK SHALL BE PROMPTLY RESTORED TO PRE-CONSTRUCTION CONDITIONS.
 - DISTURBED GROUND SURFACE WITHIN THE LIMIT OF WORK, EXCEPT 13' WIDE GRAVEL ACCESS ROAD, SHALL BE RESTORED AS SPECIFIED IN SECTION 02930 UPON COMPLETION OF THE WORK.
 - CONTRACTOR TO PRUNE AND REMOVE TREES AS NECESSARY FOR THE CONSTRUCTION AND INSTALLATION OF ACCESS ROAD. ANY TREES LOCATED OUTSIDE BUT ADJACENT TO LIMIT OF WORK SHALL BE PROTECTED AS DESCRIBED ON SHEET G-001.



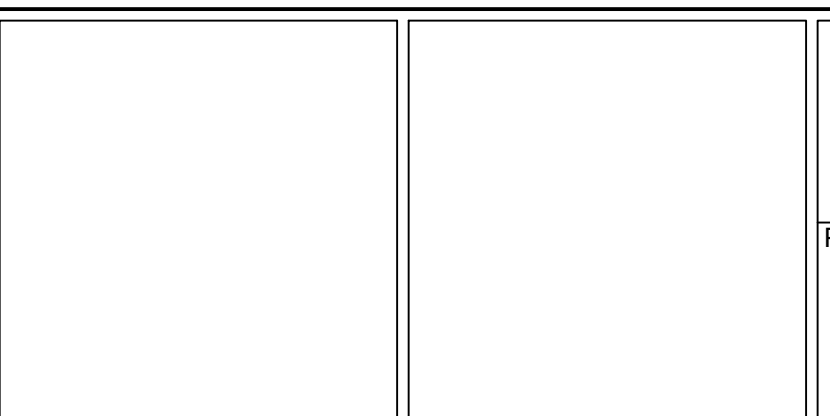
PROFILE
Horiz 1" = 20' Vert 1" = 4'



**100% DESIGN
NOT FOR CONSTRUCTION**

NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. : 6225	CAD FILE NO. :
ACCESSION NO. :	SECTION NO. : 211
DATE: JUNE 2022	DESIGNED BY: TW
SCALE: AS NOTED	DRAWN BY: RI
	CHECKED BY: JJ
	APPROVED BY: MC



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY: **KLEINFELDER**
Bright People. Right Solutions.

One Beacon Street, Suite 6100
Boston, MA 02108
Phone: 617-497-7800
www.kleinfelder.com

**SIPHON/JUNCTION STRUCTURE
REHABILITATION PHASE 1**

**PROPOSED SITE PLAN STRUCTURE L
BRIGHTON MA**

DRAWING NO.
C-311
63 of 125

APPENDIX C

Project Narrative



Notice of Intent – Project Narrative

MWRA Siphon/Junction Structure Rehabilitation Project
June 2022

Introduction

This Notice of Intent is submitted under the Massachusetts Wetlands Protection Act (WPA) (310 CMR 10.0000) for the proposed work associated with necessary maintenance and repair activities to improve flood protection, site access, structural conditions, operational requirements, and odor control for selected sewer siphon and junction structures in the Massachusetts Water Resources Authority (MWRA) wastewater system as part of the Siphon/Junction Structure Rehabilitation Project (Project). Three structures are located within the City of Boston (City) and, as instructed by the Commission, a Notice of Intent will be submitted individually for each structure. The structure subject to this Notice of Intent is Sewer Section 211, Station 00+26 (referred to as structure I). This structure is located within a 25-foot riverfront protection area. MWRA sought to have this utility maintenance work exempt per 310 CMR 10.02(2)(a)2:

(a) Activities Within the Areas Subject to Protection under M.G.L. c. 131, § 40. Any activity proposed or undertaken within an area specified in 310 CMR 10.02(1), which will remove, fill, dredge or alter that area, is subject to Regulation under M.G.L. c. 131, § 40 and requires the filing of a Notice of Intent except:

2. activities conducted to maintain, repair or replace, but not substantially change or enlarge an existing and lawfully located structure or facility used in the service of the public and used to provide...water, sewer...provided said work utilizes the best practical measures to avoid or minimize impacts to wetland resource areas outside the footprint of said structure or facility. A project proponent claiming that work to remove, fill, dredge or alter an area specified in 310 CMR 10.02(1) does not require the filing of a Notice of Intent has the burden of establishing that the work is not subject to Regulation under M.G.L. c. 131, § 40.

MWRA requested the exemption in a letter dated September 16, 2021 and was instructed by the Boston Conservation Commission to submit this Notice of Intent.

Background

The MWRA has 146 sewer siphon structures and junction structures located throughout the MWRA's wastewater collection system. The MWRA, through its engineering and operations staff, conducted inspections in 2019 to review and update the recommended improvements and developed a prioritized list of 41 structures to include in this Project. The MWRA based its evaluation on both the need for improvements and flood protection.

The purpose of the Project is to improve flood protection, site access, structural conditions, operational requirements, and odor control for the selected siphon and junction structures. Increased flooding caused by climate change has the potential to inundate MWRA sewer structures located near riverine areas, which could lead to backups and overflows of sewer pipelines. This work to maintain structural integrity to avoid backups and overflows of wastewater of the sewer system is essential to preserve public health and the environment.

Location Description – Section 211, Station 00+26 (referred to as Structure I)

Structure I is located within the Charles River Reservation on the south bank of the Charles River and north of the Dr. Paul Dudley White Bike Path in Brighton. This area is part of the Charles River Reservation, a Protected Open Space (conservation land) owned by the Massachusetts Department of Conservation and Recreation (DCR). Current access to the structure is Soldiers Field Road along the paved Dr. Paul Dudley White Bike Path; the structure is on the north side of the trail; however, it is not accessible due to tree growth. MWRA is proposing to install a short section of permanent gravel access path from the bike path north towards the structure in order to allow construction access and safe access for future maintenance.

The bike path, Soldiers Field Road, and commercial buildings are located south of the structure and wooded park areas extend west and east; the intersection of Soldiers Field Road and North Arsenal Street is approximately 1,500 feet east of the structure. The structure is partially within a bordering vegetated wetland (BVW) and on the edge, but outside of, a FEMA Flood Zone AE with a 1% annual chance of flooding, with Base Flood Elevation (Bordering Land Subject to Flooding [BLSF]) as shown on Figure 2.

In general, the sequence of work will begin with clearing as needed to provide access to the structure for construction and future maintenance. Shrubs and saplings will be cleared within the proposed access route. Tree removal consists of the following: a 9-inch and a 12-inch diameter cherry tree, within the proposed access path footprint. Two 6" diameter maple trees and one 14" diameter cherry tree will also be removed. These three trees are currently growing on top of the MWRA's sewer pipes and on top of the MWRA sewer structure located adjacent to Siphon Structure I. There are 3 saplings growing directly on top of the Structure I roof slab that will also be removed. The permanent access route is located outside of the wetland and no removal of trees or saplings is required within the wetland.

The second stage of work will be the structure improvements. The contractor will rehabilitate and line the interior of the structure and then replace the manhole cover and roof plates. During construction, an approximately 1,000-square foot staging area will be utilized on the north side of the existing bike path in an existing clearing near the structure. This area will provide space for limited storage; the majority of materials will be brought in and out daily with the construction crew, however, some machinery and equipment may be stored overnight. No materials with the potential to cause contamination will be stored overnight unless it is in a secure, weatherproof container. The staging area will be removed after construction is completed and returned to pre-construction conditions.

Lastly, the contractor will establish a gravel path within the cleared limits of the MWRA's existing easement so the MWRA can access the structure for future maintenance and restore all other disturbed land to pre-construction conditions. This gravel surface will enable vehicle access and eliminate need for future clearing without increasing surface runoff over existing conditions. Establishing the gravel path will not result in any change within the floodplain elevation and so no compensatory storage is necessary.

The Project's topsoil and seeding specifications require the contractor to decompact and prepare areas to be restored and maintain seeded areas throughout the duration of a "maintenance period," which lasts one year after substantial completion, i.e. the warranty period. There are requirements within those specifications for ensuring germination, fixing erosion, and reseeded. The Project's environmental protection procedures specifications (Sections 01100, 01110) require procedures for protecting features

throughout the project area, restricting operations to the limits of the designated locations, regular sweeping and dust control, and paving.

The proposed design and restoration have been reviewed by the Massachusetts Department of Conservation (DCR) through a series of pre-application meetings with the MWRA for their pending Access Permit for this project. All DCR comments have been incorporated into the design.

Wetland Resource Areas/Buffer Zones

Wetland resource areas relative to the project sites were delineated in accordance with the procedures described in the WPA regulations by CDW Consultants, Inc. (CDW) through field inspections in August 2020. The Wetland Resource Evaluation and Massachusetts Department of Environmental Protection (MassDEP) BVW Field Data Forms are attached. As previously stated, the work is proposed to be conducted within 100-foot wetland buffer and a riverfront. The project site is not located within any Tidelands Jurisdiction Chapter 91 areas, Areas of Critical Environmental Concern (ACEC), Natural Heritage and Endangered Species Program (NHESP) Priority Habitat or Estimated Habitat of Rare Species, or vernal pools according to data available on the Massachusetts Geographic Information System (MassGIS) Online Mapping Tool.

The project has been designed to comply with the Massachusetts Wetlands Protection Act (M.G.L. Chapter 131, Section 40) and its implementing Regulations (310 CMR 10.00). The project meets the performance standards for each applicable resource area:

- **310 CMR 10.55(4) – Bordering Vegetated Wetlands**
 - (a) The work does not involve the removing, filling, dredging, or altering of a BVW.
 - (b) The work does not involve the loss of any BVW.
 - (c) The work does not involve the loss of any BVW.
 - (d) The work is not located within a Priority Habitat or Estimated Habitats of Rare Wildlife or certified vernal pool.
 - (e) The work is not located within an Area of Critical Environmental Concern.
- **310 CMR 10.57(4)(a) – Bordering Land Subject to Flooding**
 - 1. No flood storage volume will be lost as the result of the proposed project within Bordering Land Subject to Flooding.
 - 2. The work within Bordering Land Subject to Flooding will not restrict flows so as to cause an increase in flood stage or velocity.
 - 3. The work is not within a portion of BLSF that is significant to the protection of wildlife habitat and will not alter more than 10% of the parcel or more than 5,000 square feet of land in the resource area.
- **310 CMR 10.58(4) – Riverfront Area**
 - (a) The work meets the performance standards for all other resource areas within the riverfront area.
 - (b) The work is not located within a Priority Habitat or Estimated Habitats of Rare Wildlife or certified vernal pool.

- (c) There is no practicable and substantially equivalent economic alternative to the proposed project with less adverse effects.
- (d) The work has no significant adverse impact on the riverfront area.

The wetland flags depicted on Figure 3 represent the edge of BVW as well as the top of bank. The flags are located between the 108 and 110 foot elevation contours. Based on the United States Geological Survey data for the Charles River, the highest water elevation recorded in the area of the site between July 2021 to June 2022 was at approximately 108.5 feet which represents the annual mean high water line. The structure is partially located within a BVW and BLSF; however, the work in these locations is limited to the existing structure top and interior and will not impact the resource areas. No alterations are proposed within the BVW or BLSF. The proposed area of alteration of the Riverfront Area and the 100-foot buffer zone of the wetlands is 540 square feet where the surface along the access route will be changed from wooded to gravel.

Summary of Proposed Work

Proposed improvements to the structures include:

- Waterproofing/Flood Protection – Providing resistance to flooding and inundation
 - Watertight manhole ingress and internal leak sealing
- Ingress – Improving access into the structure through top of structure modifications
 - Replace existing with two new 30-inch manhole covers and add two 1.5-foot by 1.5-foot plates
- Structural – Providing structure renewal through internal surface rehabilitations and repairs
 - Internal surface lining and remove organic growth
- Mechanical/Operational – Providing operational enhancements through stop log/weir plate modifications
 - Replace metal inserts with weir plate guides
- Odor Control – Providing odor (and moisture) mitigation
 - None

Proposed improvements to the access route for structure I include:

- Clearing – Removing and disposing of all unwanted surface material along the access route and at the structure site, such as brush, grass, downed trees, and other material.
- Tree Removal – Removing and disposing of trees along the route and at the site.
- Grading – Leveling the ground surface along the route and at the site to provide safe access for personnel and vehicles.

Alternatives Analysis

Structure I is in the Charles River Reservation in Brighton, owned by DCR. It is only accessible from Soldiers Field Road across the grass reservation. There is a wide shoulder along Soldiers Field Road at this location and a paved path referred to as the Dr. Paul Dudley White Bike Path. Approximately 40 feet of the route requires clearing, minor tree removal, and minor grading for vehicle access. Access to the structure is only available from Soldiers Field Road, no other public roads are present in the vicinity. MWRA chose the proposed route because it provides the most direct route to the structure and uses the existing paved pathway and the existing MWRA easement. Therefore, the proposed route is the least impactful and no alternative routes reviewed were deemed feasible.

The proposed activities are necessary to prolong the functionality of the structure for transporting sewage and protecting the structure from floodwater inundation. Therefore, the alternative to leave the structure as is and not complete the maintenance activities was deemed infeasible.

Alternatives for the finishing material of the proposed access route included asphalt pavement, gravel, or leaving the area vegetated. Leaving the access route vegetated was deemed infeasible, because the MWRA's maintenance personnel and equipment would not be able to access the structure in the future. Gravel was chosen over asphalt because it would enable vehicle access without increasing surface runoff. The existing ground surface material consists of floodplain alluvium soils which have hydrologic soil properties that are more limiting to infiltration than the proposed surface.

Compliance with Massachusetts Stormwater Policy

Massachusetts Stormwater Management Policy and the standards at 310 CMR 10.05(6)(k) are generally not applicable because the Project is not creating any impervious surfaces, stormwater conveyances, or stormwater systems covered by the standards. The Stormwater standards and the manner the Project complies with them are summarized as follows:

- Standard 1:** As no new impervious surfaces will be constructed, there will be no new stormwater point source discharges to untreated stormwater into, or causing erosion to, wetlands and waters.
- Standard 2:** Post-development peak discharge rates will not exceed pre-development peak discharge rates.
- Standard 3:** This Project will not result in an increase in impervious area and no loss of groundwater recharge will occur.
- Standard 4:** This Project will not result in an increase in impervious area and therefore does not require TSS removal facilities.
- Standard 5:** This Project does not contain land uses with higher potential pollutants as described in MassDEP's Stormwater Management Policy.
- Standard 6:** This Project will not result in any new point-source discharges and will not, therefore, discharge to or affect a critical area.
- Standard 7:** This Project will not result in an increase in impervious areas or point source discharges and therefore, Standards 1, 2, 3, 4, 5, 6, 7, 9, and 10 are generally not applicable. Compliance with Standard 8 is discussed below.
- Standard 8:** Erosion and sedimentation controls for construction and land disturbance activities have been incorporated into the Project design.

Standard 9: No structural stormwater treatment devices are warranted or proposed for this Project (because no increase in impervious surfaces will occur), therefore, an Operation and Maintenance Plan is not necessary.

Standard 10: No illicit discharges to a stormwater management system will occur.

Environmental Controls and Additional Permitting

The MWRA's contractor will install and maintain erosion and sediment controls around the work area, including fully biodegradable compost filter sock as the primary erosion and sediment control. Proposed erosion and sediment controls are depicted on Figure 3. Erosion and sediment controls will be monitored each workday and after precipitation events to ensure they are intact, and no sediment is bypassing the control measures. Necessary environmental and construction permits will be obtained prior to the start of work at each project area. Permit requirements will be followed as feasible and practical to maintain compliance with applicable regulations.

APPENDIX D

Affidavit of Service, List of Abutters, and Notification Form



**AFFIDAVIT OF SERVICE
FOR ABUTTER NOTIFICATION**

**Under the Massachusetts Wetlands Protection Act
and Boston Wetlands Ordinance**

I, Christine Walsh, hereby certify under pains and penalties of perjury that that at least one week prior to the public hearing, I gave notice to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

A Notice of Intent _____ was filed under the Massachusetts Wetlands Protection Act and/or the Boston Wetlands Ordinance by MWRA _____ for necessary maintenance and repair activities for MWRA Sewer Section 211, Station 00+26 (structure I) _____ located at Beacon Street, Boston, MA _____.

The Abutter Notification For, the list of abutters to whom it was given, and their addresses are attached to this Affidavit of Service.

Christine Walsh Digitally signed by Christine Walsh
Date: 2022.05.25 14:18:40 -0400'

Name

5/25/2022

Date

List of Abutters

PARCEL ID	PROPERTY ADDRESS	CITY	ZIPCODE	OWNER	ADDRESSEE	MAILING ADDRESS	MAILING CITY	MAILING STATE	MAILING ZIPCODE
2010646002	VFW PW	WEST ROXBURY	02132	UNITED STATES OF AMERICA		VFW PKWY	WEST ROXBURY	MA	02132
2010646010	1625 VFW PW	WEST ROXBURY	02132	TITANIUM GROUP LLC		500 TURNPIKE ST	CANTON	MA	02021
2010647000	1675 VFW PW	WEST ROXBURY	02132	R K WEST ROXBURY LLC	C/O RK CENTERS	50 CABOT ST SUITE 200	NEEDHAM	MA	02494
2010643010	1525 1607 VFW PW	WEST ROXBURY	02132	AMR REAL ESTATE HOLDINGS LLC	C/O MATTHEW MCGOVERN	425 PROVIDENCE HW	WESTWOOD	MA	02090
2010646000	VFW PW	WEST ROXBURY	02132	TITANIUM GROUP LLC		275 N PEARL ST	BROCKTON	MA	02302
2010646020	1665 VFW PW	WEST ROXBURY	02132	R K WEST ROXBURY LLC	C/O RK CENTERS	50 CABOT ST SUITE 200	NEEDHAM	MA	02494
9299	135 PROVIDENCE HWY	DEDHAM	02132	R K WEST ROXBURY LLC	C/O RK CENTERS	50 CABOT ST SUITE 200	NEEDHAM	MA	02494



**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. Massachusetts Water Resources Authority (MWRA) 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 N. Beacon Street, Boston, MA_____.

C. The project involves necessary maintenance and repair activities for MWRA Sewer Section 211, Station 00+26 (structure I).

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 Milan Horbaczewski _____ by contacting them at Milan.Horbaczewski@mwra.com ___ between the hours of 9 AM to 5 PM _____, Monday through Friday__.

F. In accordance with the Chapter 20 of the Acts of 2021, 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 CC@boston.gov 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, time, 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. 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: 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.

NOTE: If you plan to attend the public hearing and are in need of interpretation, please notify staff at CC@boston.gov by 12 PM the day before the hearing.

APPENDIX E

Wetland Delineation Report



September 3, 2020

Re: MWRA structure I Wetland Delineation

Dear Sir or Madam:

On August 26, 2020 William E. Kuriger, Ph.D. delineated wetlands at the above referenced structures. The delineation was at the top of bank and annual high water locations, with some bordering vegetated wetlands (BVW) within the wetland flags at some locations.

The flags 86-1 to 86-10 were used for the wetland delineation. The delineation was completed during drought conditions. United States Army Corps of Engineers Wetland Delineation Automated Forms version ADF_NCNE_v1.15. Copies of the forms are attached. A copy of the soil map for the site from the U.S.D.A. Natural Resources Service is also attached.

Sincerely,

A handwritten signature in black ink that reads 'William E. Kuriger'. The signature is written in a cursive style.

William E. Kuriger, Ph.D., P.W.S., L.S.P.
Environmental Scientist
Certified Wetland Scientist (NH) 069
Senior Professional Wetland Scientist (SWS)
Licensed Site Professional (MA) 8104

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: MWRA ID I City/County: Boston Sampling Date: 08/26/20
 Applicant/Owner: MWRA State: MA Sampling Point: 9 Upland
 Investigator(s): W. E. Kuriger Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Side slope Local relief (concave, convex, none): Concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 322773 Long: 4692004 Datum: 1983
 Soil Map Unit Name: Urban land, wet substratum NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No x (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes x No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Drought conditions present.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 9 Upland

<u>Tree Stratum</u> (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer platanoides</u>	15	Yes	UPL	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>42.9%</u> (A/B)																
2. <u>Prunus serotina</u>	40	Yes	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	<u>55</u>	=Total Cover		Prevalence Index worksheet: <table style="width:100%; border:none;"> <tr> <td style="width:50%; text-align:center;">Total % Cover of:</td> <td style="width:50%; text-align:center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>40</u></td> <td>x 4 = <u>160</u></td> </tr> <tr> <td>UPL species <u>40</u></td> <td>x 5 = <u>200</u></td> </tr> <tr> <td>Column Totals: <u>110</u></td> <td>(A) <u>450</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>4.09</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>40</u>	x 4 = <u>160</u>	UPL species <u>40</u>	x 5 = <u>200</u>	Column Totals: <u>110</u>	(A) <u>450</u> (B)	Prevalence Index = B/A = <u>4.09</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
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Column Totals: <u>110</u>	(A) <u>450</u> (B)																			
Prevalence Index = B/A = <u>4.09</u>																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u>)																				
1. <u>Frangula alnus</u>	15	Yes	FAC																	
2. <u>Rhamnus cathartica</u>	10	Yes	FAC																	
3. <u>Acer platanoides</u>	15	Yes	UPL																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	<u>40</u>	=Total Cover																		
<u>Herb Stratum</u> (Plot size: <u>5</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Acer platanoides</u>	10	Yes	UPL																	
2. <u>Frangula alnus</u>	5	Yes	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	<u>15</u>	=Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: <u>30</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
1. _____																				
2. _____																				
3. _____																				
4. _____																				
				Hydrophytic Vegetation Present? Yes <u> </u> No <u> </u> x																

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: MWRA ID I City/County: Boston Sampling Date: 08/26/20
 Applicant/Owner: MWRA State: MA Sampling Point: 9 Wetland
 Investigator(s): W. E. Kuriger Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Side slope Local relief (concave, convex, none): Concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 322773 Long: 4692004 Datum: 1983
 Soil Map Unit Name: Urban land, wet substratum NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No x (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes x No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Drought conditions present.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
---	---

Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 9 Wetland

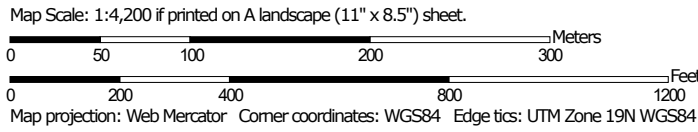
<u>Tree Stratum</u> (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Rhamnus cathartica</u>	<u>10</u>	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>10</u> =Total Cover			Prevalence Index worksheet: <table style="width:100%; border:none;"> <tr> <td style="width:50%; text-align:center;">Total % Cover of:</td> <td style="width:50%; text-align:center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>30</u> (A)</td> <td><u>100</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>3.33</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>20</u>	x 3 = <u>60</u>	FACU species <u>10</u>	x 4 = <u>40</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>30</u> (A)	<u>100</u> (B)	Prevalence Index = B/A = <u>3.33</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>20</u>	x 3 = <u>60</u>																			
FACU species <u>10</u>	x 4 = <u>40</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>30</u> (A)	<u>100</u> (B)																			
Prevalence Index = B/A = <u>3.33</u>																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> X 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Morus alba</u>	<u>10</u>	Yes	FACU																	
2. <u>Rhamnus cathartica</u>	<u>10</u>	Yes	FAC																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>20</u> =Total Cover			Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No <u>x</u>																
<u>Herb Stratum</u> (Plot size: <u>5</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	_____ =Total Cover																			
<u>Woody Vine Stratum</u> (Plot size: <u>30</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	_____ =Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet.)

Soil Map—Middlesex County, Massachusetts, and Norfolk and Suffolk Counties, Massachusetts
(MWRA I & m)



Soil Map may not be valid at this scale.




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



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



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



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: Middlesex County, Massachusetts

Survey Area Data: Version 20, Jun 9, 2020

Soil Survey Area: Norfolk and Suffolk Counties, Massachusetts

Survey Area Data: Version 16, Jun 11, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

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

MAP LEGEND

MAP INFORMATION

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	7.8	9.1%
602	Urban land	26.7	30.9%
653	Udorthents, sandy	4.0	4.7%
655	Udorthents, wet substratum	15.5	18.0%
Subtotals for Soil Survey Area		54.0	62.6%
Totals for Area of Interest		86.2	100.0%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1	Water	6.7	7.8%
602	Urban land, 0 to 15 percent slopes	1.7	2.0%
603	Urban land, wet substratum, 0 to 3 percent slopes	19.9	23.1%
655	Udorthents, wet substratum	3.9	4.6%
Subtotals for Soil Survey Area		32.2	37.4%
Totals for Area of Interest		86.2	100.0%

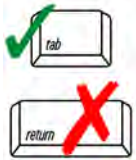
APPENDIX F

NOI Fee Transmittal Form and Copy of Fee Checks



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.



A. Applicant Information

1. Location of Project:

N Beacon Street	Boston
a. Street Address	b. City/Town
26422	\$237.50
c. Check number	d. Fee amount

2. Applicant Mailing Address:

John	Colbert	
a. First Name	b. Last Name	
Massachusetts Water Resources Authority (MWRA)		
c. Organization		
100 First Avenue, Building 39		
d. Mailing Address		
Boston	MA	02129
e. City/Town	f. State	g. Zip Code
	John.Colbert@MWRA.com	
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

Priscilla	Geigis	
a. First Name	b. Last Name	
Deputy Commissioner of the 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
617-626-1250	priscilla.geigis@mass.gov	
h. Phone Number	i. Fax Number	j. Email Address

B. Fees

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

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

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

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

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

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

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

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



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Utility structure maintenance	1	\$500	\$500
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Step 5/Total Project Fee:			\$500
Step 6/Fee Payments:			
Total Project Fee:			\$500
State share of filing Fee:			\$237.50
City/Town share of filing Fee:			\$262.50
			a. Total Fee from Step 5
			b. 1/2 Total Fee less \$12.50
			c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

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

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

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

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