

Andrew Square to Dewar Street Reliability Project
Subsurface Exploration
Boston, Massachusetts

NOTICE OF INTENT

EVERSOURCE

NSTAR Electric Company D/B/A
Eversource Energy
247 Station Drive
Westwood, MA 02090

May 2019

Tighe & Bond
Engineers | Environmental Specialists

E0755072C-07
May 21, 2019

Boston Conservation Commission
One City Hall Square, Room 709
Boston, MA 02201

Re: **Notice of Intent**
Andrew Square to Dewar Street Reliability Project - Subsurface Exploration
Boston, Massachusetts

Dear Members of the Commission:

On behalf of NSTAR Electric Company D/B/A Eversource Energy (Eversource), Tighe & Bond is submitting eight (8) copies of this Notice of Intent (NOI) for the Andrew Square to Dewar Street Reliability Project from the Andrew Square Substation (45 Ellery Street) to the Dewar Street Substation in Boston, Massachusetts. The project involves subsurface investigations within existing roadway rights-of-way (ROW) to gather environmental (i.e., soil and groundwater) information, gather geotechnical information, and confirm existing underground utilities in advance of the design, permitting, and installation of a proposed underground electric transmission line. The proposed borings and test holes are required to preliminarily evaluate existing subsurface conditions such as presence of existing underground utilities, soil conditions, groundwater levels, and other factors that may affect the potential constructability of the proposed underground electric transmission line.

This NOI is being filed as work will occur within Land Subject to Coastal Storm Flowage (LSCSF). A portion of the work is also located within the 100-foot Buffer Zone to Coastal Bank and Salt Marsh, and is considered exempt as a minor activity in Buffer Zone under the Massachusetts Wetlands Protection Act (MAWPA) in accordance with 310 CMR (2)(b)(2)(g).

A copy of the WPA Form 3 is provided in Appendix A. A USGS Site Location Map (Figure 1), DEP Priority Resources Map (Figure 2), Project Overview (Figure 3), and Orthophotograph Site Plans (Figure 4) are provided in Appendix B. Site photographs are provided in Appendix C. The list of abutters and abutter notification form is provided in Appendix D. The following text summarizes the purpose and need for the proposed project, a description of the project area, proposed activities and protective measures, as well as a discussion of the work relative to the MAWPA.

Purpose and Need

In order to maintain electrical reliability, Eversource is proposing the installation of new underground electric transmission line and seven transmission manholes between the Andrew Square Substation and the Dewar Street Substation. The proposed soil borings and test holes are integral to evaluating subsurface conditions and how they may potentially affect the design and construction approaches for the project.

Site Description

The project area consists of public roadways and ROWs located between Eversource's Andrew Square Substation and Dewar Street Substation. As shown on Figure 4 and in the site photographs, the locations of the proposed borings and test holes are abutted by a mixture of industrial, residential, commercial, and institutional areas.



Wetland Resource Areas

The presence of jurisdictional resource areas was confirmed via desktop survey using MassGIS data layers and field reconnaissance. Jurisdictional areas occur between the intersection of Columbia Road and O'Callaghan Way and the intersection of William T Morrissey Boulevard and Old Colony Terrace Road, and on Springdale Street (a paper street). All work within jurisdictional areas will take place within paved and previously disturbed areas of existing ROWs. These areas are shown on Figure 4 in Appendix B of this NOI.

Land Subject to Coastal Storm Flowage

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (Panel Nos. 2502860083J and 2502860091J, effective September 25, 2009, revised March 16, 2016) were consulted to evaluate the presence of regulatory land subject to flooding. Portions of the project area fall within Zone AE, an area subject to flooding and/or inundation by the 100-year flood with a base elevation of 10-12 feet (NAVD88). Accordingly, the southern portion of the project area is regulated as Land Subject to Coastal Storm Flowage (LSCSF).

Rare Species

The Massachusetts Natural Heritage and Endangered Species Program (NHESP) Atlas (14th edition; August 1, 2017) and MassGIS online (August 2017) were consulted during the preparation of this NOI. According to these sources, the project area does not fall within *Priority Habitats of Rare Species* or *Estimated Habitats of Rare Wildlife* (Figure 2).

Proposed Activities

The proposed activities are limited to the advancement of 48 soil borings, monitoring wells, and test holes located within MAWPA jurisdictional areas within the roadway ROW. The proposed soil exploration will be conducted in two phases. The first phase will include test holes to evaluate the manhole locations as well as soil borings to identify geotechnical conditions and potential soil conditions along the route. The second phase will include test holes to locate existing utilities and supplemental environmental borings to further define soil contaminant limits and potentially help reduce disposal costs. Many of the test holes and soil borings during the second phase will take place within areas previously disturbed for the first phase of subsurface explorations and therefore will not result in additional disturbance.

Test holes will generally be advanced to a depth of 10 to 15 feet (at manhole locations), and 5 to 6 feet at the remaining test hole locations, or until the top of utilities are encountered. The actual depth of the test holes and borings can only be determined in the field based on the actual subsurface conditions found. Soil borings will be advanced using an air-knife/utility vacuum and hand auger or using a hollow stem auger drill rig. Disturbance areas associated with the subsurface investigations will depend on the type of subsurface exploration and will range from a 1 square foot (sf) area for a soil boring or test hole to a 250 sf area for a test hole at a proposed manhole location. Estimated temporary impacts of the proposed work within jurisdictional areas are provided in Table 1.

TABLE 1Estimated temporary impacts of the proposed work within MAWPA jurisdictional areas¹

Purpose	Land Subject to Coastal Storm Flowage		100-Foot Buffer Zone	
	Number	Temporary Impacts (sf)	Number	Temporary Impacts (sf)
Test Hole (1 ft x 3 ft)	41	123	6	18
Test Hole at Manhole Location (25 ft x 10 ft)	1	250	1	250
Soil Boring (1 ft x 1 ft)	3	3	0	0
Total:	45	376	7	268

¹ The total number of locations for test holes and soil borings amounts to 48. Four (4) test holes occur within both Land Subject to Coastal Storm Flowage and the 100-foot Buffer Zone.

Site Restoration

To minimize settling in the boreholes and test holes, each location will be backfilled with cuttings and angular gravel to within 3-6 inches of the pavement surface and then finished with a concrete plug, pavement or in-kind materials. Excess cuttings will be placed in a 55-gallon drum for off-site disposal. If necessary, appropriate erosion and sediment controls consisting of staked straw wattles will be installed downgradient of the boring locations to protect the nearby resource areas from any adverse impacts. Following the completion of construction activities, any disturbed areas will be restored in-kind.

Access/Traffic Control

Access to the proposed soil boring and test hole locations will generally be obtained from paved public roadways. Access to the paper street between General Casimir Pulaski Skyway and Springdale Street will be via Springdale Street. Traffic impacts associated with the project will be temporary in nature and confined to the soil boring / test hole areas. The proposed work will necessitate lane restrictions. The contractor will implement a variety of mitigation measures to minimize traffic disruption and potential inconvenience to drivers.

Regulatory Discussion

The proposed geotechnical survey is limited to LSCSF and the 100-foot Buffer Zone. The work is temporary in nature and takes place within previously disturbed areas. Approximately 373 sf of work will take place within LSCSF and 268 sf of work will take place within the 100-foot Buffer Zone.

MAWPA Exemption

Work within the 100-foot Buffer Zone is exempt per 310 CMR 10.02(2)(b)(2)(g), which exempts "*activities that are temporary in nature, have negligible impacts, and are necessary for planning and design purposes (e.g., installation of monitoring wells, exploratory borings, sediment sampling and surveying and percolation tests for septic systems provided that resource areas are not crossed for site access).*"

As noted above, soil borings and test holes are necessary for the planning of the installation of the underground transmission line, and temporary impacts will be located within previously disturbed or paved areas.

Land Subject to Coastal Storm Flowage

There are no performance standards for LSCSF, but construction-period protective measures, including sediment and erosion controls, will be implemented as necessary. The proposed geotechnical exploration within LSCSF are located within previously disturbed areas which will be restored to existing grade. Therefore, the proposed activities are not expected to alter drainage conditions, flood storage, flood stage or velocity.

Stormwater

Though not categorically exempt, the stormwater standards are generally not applicable as the proposed project will not result in any point source discharges, nor will it result in any increases in impervious area. Existing drainage structures within the project vicinity will continue to operate under current conditions. Erosion and sediment controls will be utilized during the subsurface exploration activities, as necessary.

Abutter Notification

Abutters were notified in accordance with the MAWPA. Notifications were sent by USPS Certificates of Mailing. A copy of the list of abutters and the abutter notification form are provided in Appendix D.

We look forward to discussing this project with you. Should you have any questions regarding this application or require any additional information, please do not hesitate to contact me at (413) 572-3256 or via email at TJAdamski@tighebond.com.

Very truly yours,

TIGHE & BOND, INC.



Tracy J. Adamski, AICP
Vice President

Enclosures

Copy: Michael Zylich, PG, LSP, Eversource Energy
MassDEP Northeast Regional Office

\\\\tighebond.com\data\Data\Projects\E\E0755 - Eversource L&P\E0755-72 Andrew Square to Dewar Street\Permitting\Borings\NOI\DRAFT\02 - Cover Letter.docx

Tighe&Bond

APPENDIX A



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:

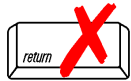
MassDEP File Number

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):

Andrew Square to Dewar Street

a. Street Address

Boston

b. City/Town

c. Zip Code

42.308530

-71.055044

d. Latitude

e. Longitude

1503121000

g. Parcel /Lot Number

Latitude and Longitude:

f. Assessors Map/Plat Number

2. Applicant:

Michael

a. First Name

Zylich

b. Last Name

NSTAR Electric Company D/B/A Eversource Energy

c. Organization

247 Station Drive, SE 270

d. Street Address

Westwood

e. City/Town

MA

f. State

02090

g. Zip Code

(781) 441-3804

h. Phone Number

i. Fax Number

Michael.Zylich@eversource.com

j. Email Address

3. Property owner (required if different from applicant):

Check if more than one owner

Public rights of way

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Tracy

a. First Name

Adamski

b. Last Name

Tighe & Bond, Inc.

c. Company

53 Southampton Road

d. Street Address

Westfield

e. City/Town

MA

f. State

01085

g. Zip Code

(413) 572-3256

h. Phone Number

(413) 562-5317

i. Fax Number

TJAdamski@tighebond.com

j. Email address

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

\$312.50

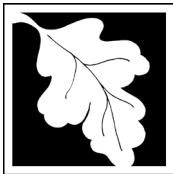
a. Total Fee Paid

\$237.50

b. State Fee Paid

\$75.00

c. City/Town Fee Paid



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WPA Form 3 – Notice of Intent

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

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Boston

City/Town

A. General Information (continued)

6. General Project Description:

Eversource proposes the advancement of and test holes and soil borings between the Andrew Square Substation and the Dewar Street Substation in Boston, Massachusetts. The project involves drilling and excavation within existing roadway rights-of-way (ROWs) to gather environmental (i.e., soil and groundwater), geotechnical, and utility information in advance of the design, permitting, and installation of an underground electric transmission line. The proposed borings and test holes are required to preliminarily evaluate existing subsurface conditions such as presence of underground utilities, soil conditions, groundwater levels, and other factors that may affect the potential constructability of the proposed underground transmission line. The work will occur within Land Subject to Coastal Storm Flowage and the 100-foot Buffer Zone to wetland resource areas. The borings within the Buffer Zone are exempt under the MAWPA. All work is limited to existing paved roadways and the maintained paper street (i.e. Springdale Street). Please refer to the narrative for additional details.

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

- | | |
|---|---|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input checked="" type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input type="checkbox"/> 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 County

a. County

421

c. Book

b. Certificate # (if registered land)

85

d. Page Number

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

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



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Boston

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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.

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 type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet	2. square feet
	3. cubic yards dredged	

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

4. Proposed alteration of the Riverfront Area:

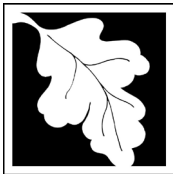
_____ a. total square feet	_____ b. square feet within 100 ft.	_____ c. square feet between 100 ft. and 200 ft.
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5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

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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Provided 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.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
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

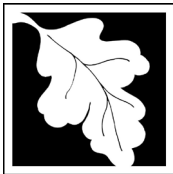
Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. <input 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 checked="" type="checkbox"/> Land Subject to Coastal Storm Flowage	376 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

- 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**

- August 2017
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).*

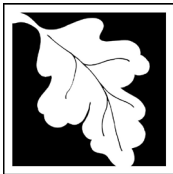
- c. Submit Supplemental Information for Endangered Species Review*

- Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area _____ percentage/acreage
 - (b) outside Resource Area _____ percentage/acreage
- Assessor's Map or right-of-way plan of site

- 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 <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

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



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Bureau of Resource Protection - Wetlands

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

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MassDEP File Number

Document Transaction Number

Boston

City/Town

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

(c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_fee_schedule.htm).
Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

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

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

(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, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

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:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: DMF.EnvReview-South@state.ma.us

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: DMF.EnvReview-North@state.ma.us

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



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

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Boston

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)?
- 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

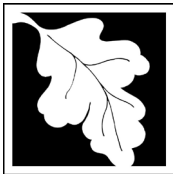
- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

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.

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



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D. Additional Information (cont'd)

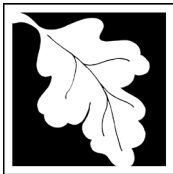
- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.
 - Andrew Square to Dewar Street Reliability Project Subsurface Exploration (Figure 1)
 - a. Plan Title
 - Tighe & Bond
 - b. Prepared By
 - March 2019
 - d. Final Revision Date
 - Priority Resources (Figure 2), Project Overview (Figure 3), Orthophotograph Site Plan (Figure 4)
 - c. Signed and Stamped by
 - 1:12,000
 - e. Scale
 - March 2019, May 2019
- 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:

162776	04/05/2019
2. Municipal Check Number	3. Check date
162797	04/05/2019
4. State Check Number	5. Check date
6. Payor name on check: First Name	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:

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.

5-20-19

1. Signature of Applicant, **Michael Zylich, Eversource Energy**

2. Date

3. Signature of Property Owner (if different)

4. Date

5-20-19

5. Signature of Representative – **Tracy Adamski, Tighe & Bond**

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:

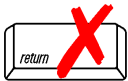
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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.



A. Applicant Information

1. Location of Project:

<u>Andrew Square to Dewar Street</u>	<u>Boston</u>
a. Street Address	b. City/Town
<u>162797</u>	<u>\$237.50</u>
c. Check number	d. Fee amount

2. Applicant Mailing Address:

<u>Michael</u>	<u>Zylich</u>	
a. First Name	b. Last Name	
<u>NSTAR Electric Company D/B/A Eversource Energy</u>		
c. Organization		
<u>247 Station Drive, SE 270</u>		
d. Mailing Address		
<u>Westwood</u>	<u>MA</u>	<u>02090</u>
e. City/Town	f. State	g. Zip Code
<u>(781) 441-3804</u>	<u>Michael.Zylich@eversource.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

<u></u>	<u></u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Mailing Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
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
Category 2(f) - other activity not in Category 1, 3, 4, 5 or 6	1	\$500	\$500

Step 5/Total Project Fee: \$500
 This number does not represent the fee paid due to the Boston Specific Fee Schedule. See actual payment details below.

Step 6/Fee Payments:

Total Project Fee:	<u>\$312.50</u>
State share of filing Fee:	a. Total Fee (State Fee + Boston Specific Fee) <u>\$237.50</u>
City/Town share of filing Fee:	b. 1/2 (Step 5) Total Fee less <u>\$12.50</u> <u>\$75.00</u> c. The City of Boston Title 14 Section 450 Fee

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.)

Tighe & Bond

Engineers | Environmental Specialists
53 Southampton Road • Westfield, MA 01085

TD BANK
60 MAIN ST.
WESTFIELD, MA 01085

162797

53-7054
2113

VOID IF NOT CASHED WITHIN 180 DAYS

4/5/2019


NO. 162797

PAY *****237 DOLLARS AND *****50 CENTS \$ *****237.50

Commonwealth of Massachusetts 34001

TIGHE & BOND, INC

TO THE ORDER OF
., MA US


AUTHORIZED SIGNATURE MP

⑈ 162797 ⑈ ⑆ 211370545 ⑆ 004991906 ⑈

Tighe & Bond

Engineers | Environmental Specialists
53 Southampton Road • Westfield, MA 01085

TD BANK
60 MAIN ST.
WESTFIELD, MA 01085

162776

53-7054
2113

VOID IF NOT CASHED WITHIN 180 DAYS

4/5/2019


NO. 162776

PAY *****75 DOLLARS AND *****00 CENTS \$ *****75.00

City of Boston

TIGHE & BOND, INC

TO THE ORDER OF
., MA US


AUTHORIZED SIGNATURE MP

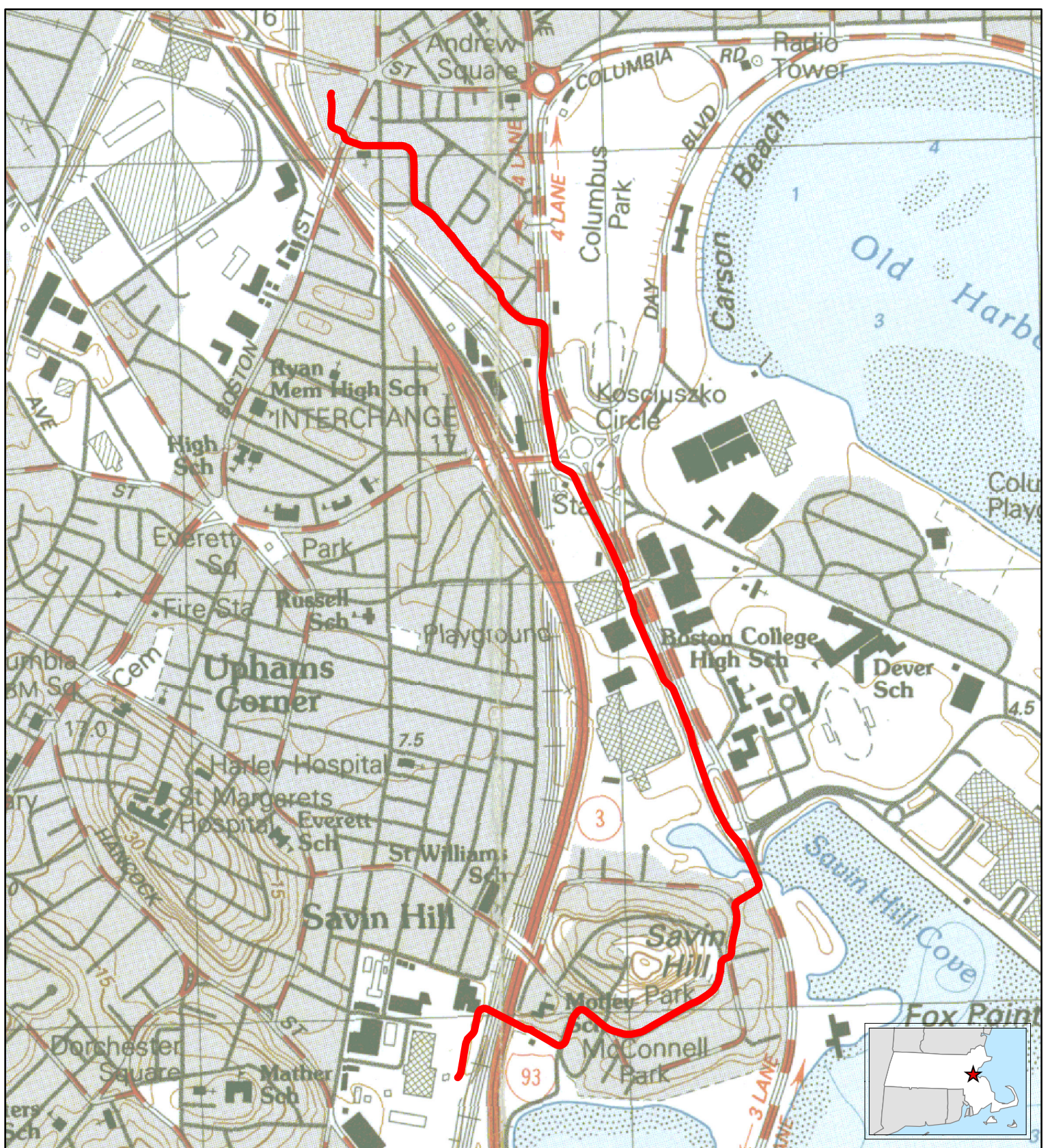
⑈ 162776 ⑈ ⑆ 211370545 ⑆ 004991906 ⑈

Security features. Details on back.

Security features. Details on back.

Tighe&Bond

APPENDIX B

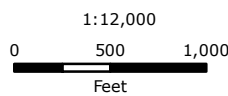


Legend

— Proposed Underground Transmission Line

Tighe & Bond
 Engineers | Environmental Specialists

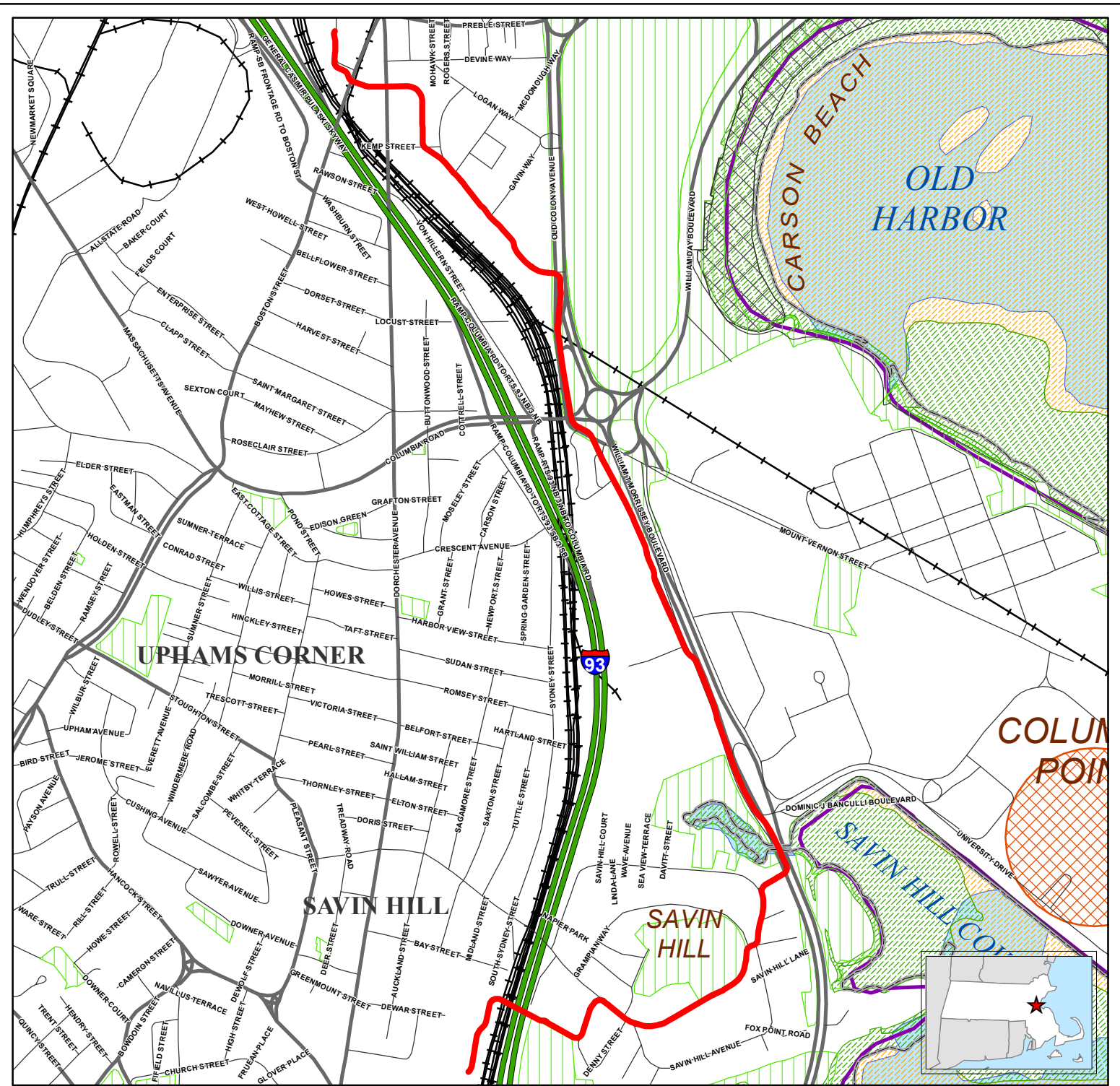
Based on USGS Topographic Map for Boston South, MA Revised 1987. Contour Interval Equals 3 meters.



**FIGURE 1
 SITE LOCATION**

Andrew Square to Dewar Street
 Reliability Project
 Subsurface Exploration
 Boston, Massachusetts

March 2019



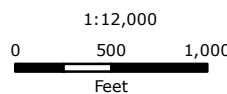
Legend

- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- Non-Landfill Solid Waste Sites
- Proposed Well
- Emergency Surface Water
- Community Public Water Supply - Surface Water
- Community Public Water Supply - Groundwater
- Non-Community Non-Transient Public Water Supply
- Non-Community Transient Public Water Supply
- Limited Access Highway
- Multi-Lane Highway, NOT Limited Access
- Other Numbered Highway
- Major Road - Collector
- Minor Street or Road
- Aquaducts
- Hydrologic Connections
- Stream/Intermittent Stream
- Powerline
- Pipeline
- Track or Trail
- Trains
- Public Surface Water Supply Protection Area (Zone A)
- DEP Approved Wellhead Protection Area (Zone I)
- DEP Approved Wellhead Protection Area (Zone II)
- DEP Interim Wellhead Protection Area (IWPA)
- Protected and Recreational Open Space
- Solid Waste Landfill
- Area of Critical Environmental Concern (ACEC)
- NHESP Priority Habitats for Rare Species
- NHESP Estimated Habitats for Rare Wildlife
- EPA Designated Sole Source Aquifer
- Major Drainage Basin
- Sub Drainage Basin
- MassDEP Open Water
- MassDEP Inland Wetlands
- MassDEP Coastal Wetlands
- MassDEP Not Interpreted Wetlands
- Public Surface Water Supply (PSWS)
- Water Bodies
- Non-Potential Drinking Water Source Area - High Yield
- Non-Potential Drinking Water Source Area - Medium Yield
- Potentially Productive Medium Yield Aquifer
- Potentially Productive High Yield Aquifer
- County Boundary
- Town Boundary
- USGS Quadrangle Sheet Boundary
- Proposed Underground Transmission Line

FIGURE 2 PRIORITY RESOURCES

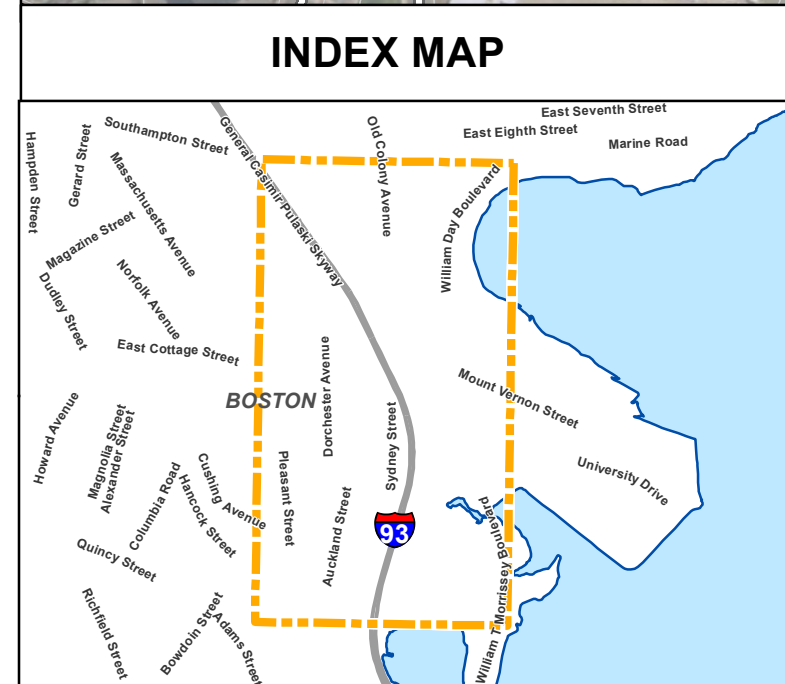
Andrew Square to Dewar Street
Reliability Project
Subsurface Exploration
Boston, Massachusetts

Data source: Bureau of Geographic Information (MassGIS),
Commonwealth of Massachusetts, Executive Office of Technology
Circles indicate 500-foot and half-mile radii.
Data valid as of March 2019.



March 2019

Tighe & Bond
Engineers | Environmental Specialists



- Legend**
- Ⓢ Stations
 - Alignment of Proposed Underground 115 kV Transmission Line
 - MBTA Bus Routes
 - MBTA Track
 - ▭ Substation
 - ▭ Parcel Boundary

Map Notes:
 Basemap: 2014 Orthophotographs, MassGIS
 Data source: Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts Executive Office of Environmental Affairs.
 Parcels downloaded from Boston Open Data Portal: 2016

The information/data provided in this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation or parcel level analysis. The maps should not be used for construction purposes.

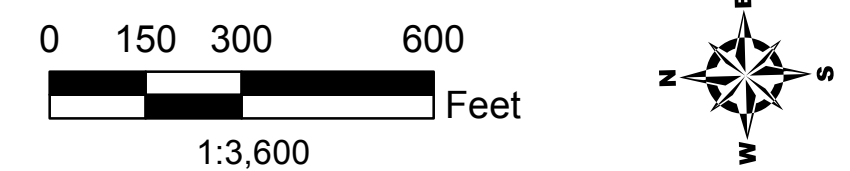


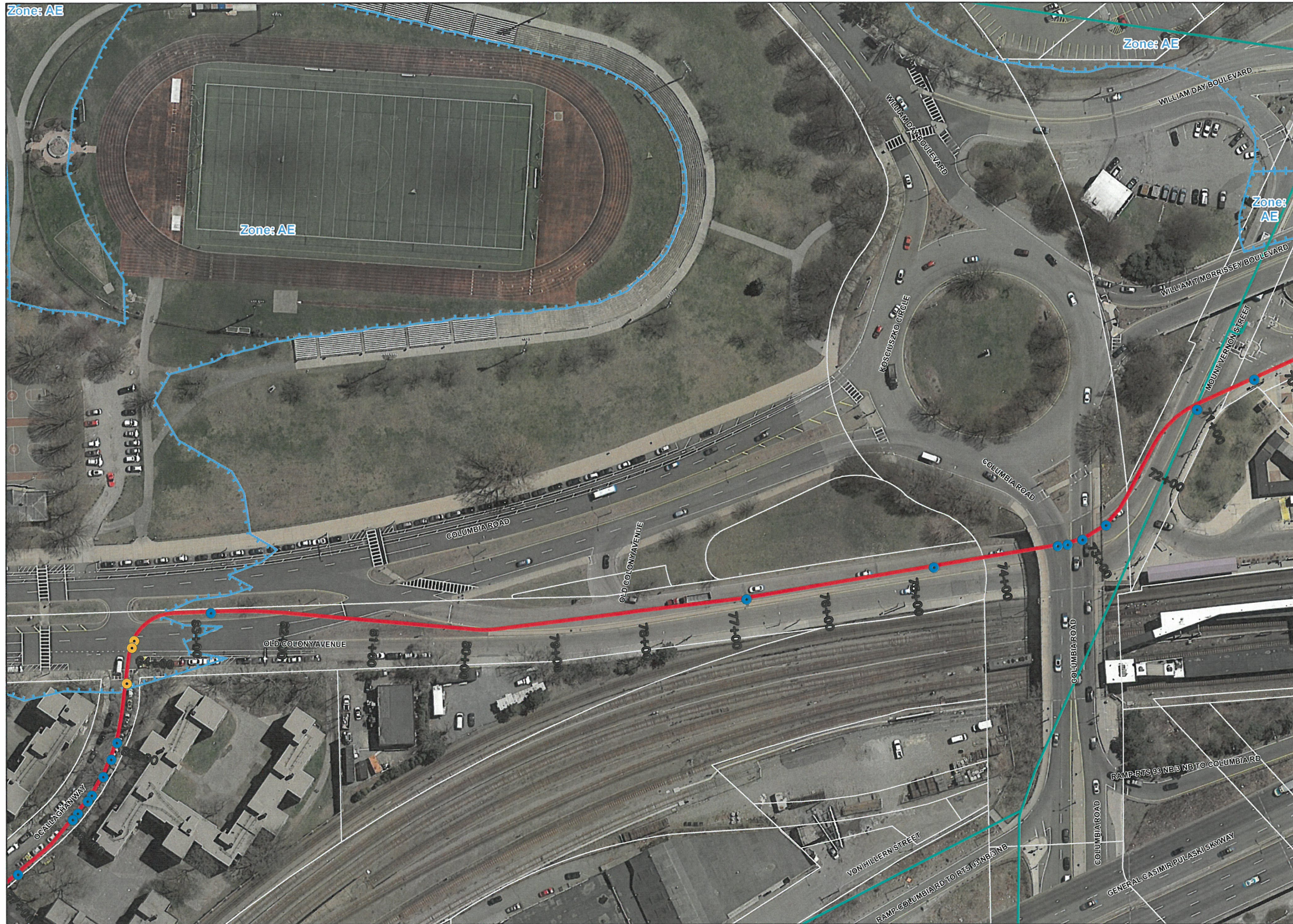
Figure 3
Project Overview
Andrew Square to Dewar Street
Reliability Project Subsurface Exploration
 Boston, Massachusetts

EVERSOURCE
ENERGY

Tighe & Bond
Engineers | Environmental Specialists

March 2019

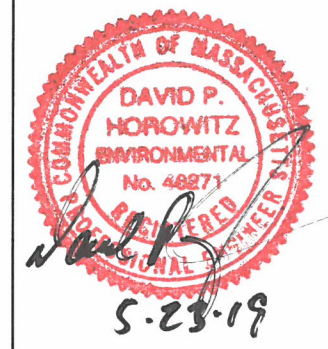
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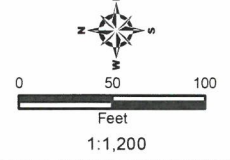
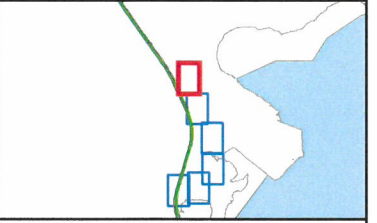
**FIGURE 4:
ORTHOGRAPH
SITE PLAN**

LEGEND

- Proposed Boring Locations Within Jurisdictional Areas
- Proposed Boring Locations
- Proposed Underground Transmission Line
- Combined Sewer Overflow
- 100 Year Flood Zone
- MassDEP Wetlands
- 100-foot Buffer Zone



LOCUS MAP



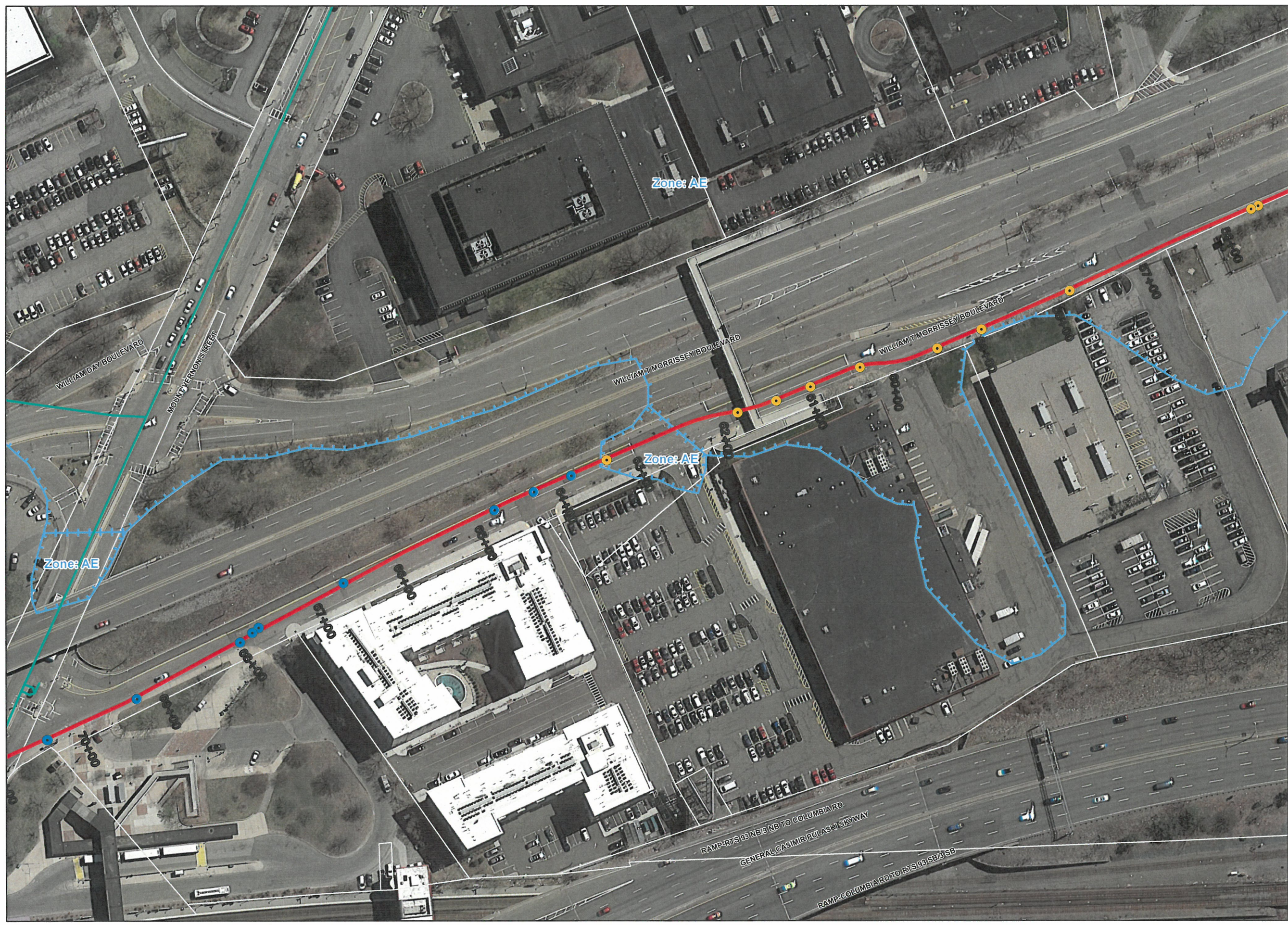
NOTES

Data source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology
 Based on MassGIS Color Orthophotography
 FEMA Flood Data: MassGIS, 2018
 Data valid as of May 2019.

Page: **1**

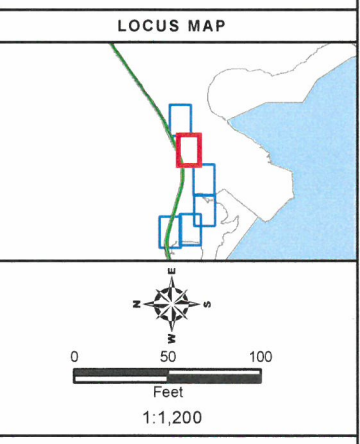
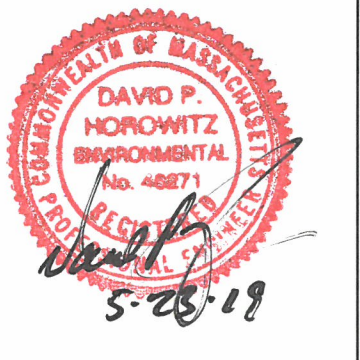
Andrew Square to Dewar Street
 Reliability Project - Soil Borings
 Boston, Massachusetts
 May 2019





**FIGURE 4:
ORTHOGRAPH
SITE PLAN**

- LEGEND**
- Proposed Boring Locations Within Jurisdictional Areas
 - Proposed Boring Locations
 - Proposed Underground Transmission Line
 - Combined Sewer Overflow
 - 100 Year Flood Zone
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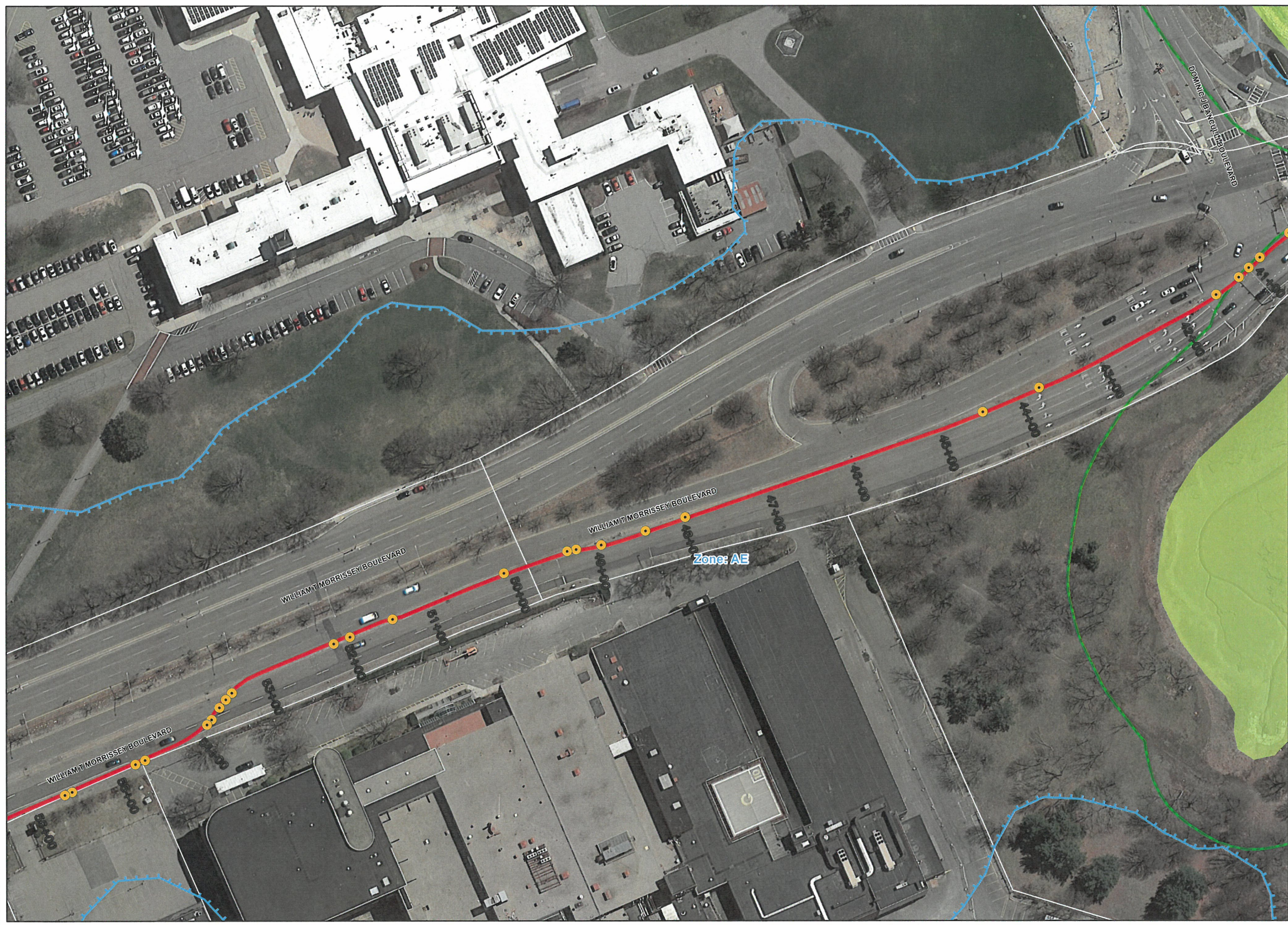
NOTES

Data source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology
 Based on MassGIS Color Orthophotography
 FEMA Flood Data: MassGIS, 2018
 Data valid as of May 2019.

Page: **2**

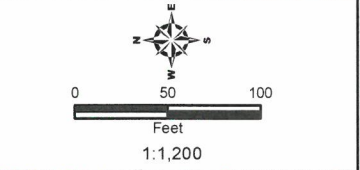
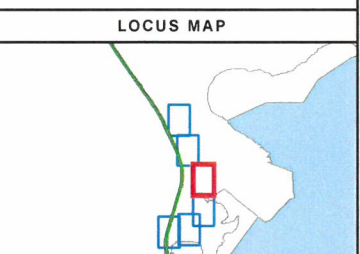
Andrew Square to Dewar Street
 Reliability Project - Soil Borings
 Boston, Massachusetts
 May 2019





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NOTES
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 Based on MassGIS Color Orthophotography
 FEMA Flood Data: MassGIS, 2018
 Data valid as of May 2019.

Page: **3**

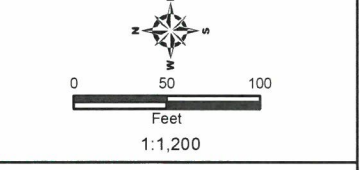
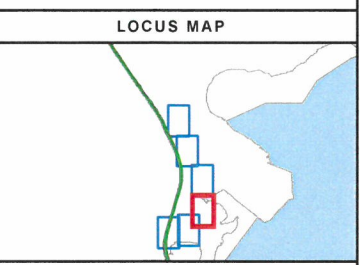
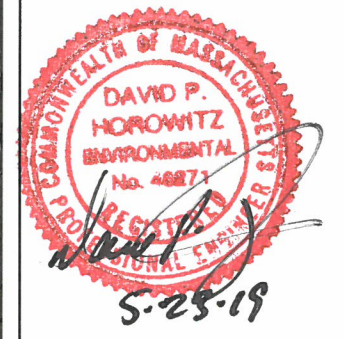
Andrew Square to Dewar Street
 Reliability Project - Soil Borings
 Boston, Massachusetts
 May 2019





**FIGURE 4:
ORTHOGRAPH
SITE PLAN**

- LEGEND**
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NOTES
 Data source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology
 Based on MassGIS Color Orthophotography
 FEMA Flood Data: MassGIS, 2018
 Data valid as of May 2019.

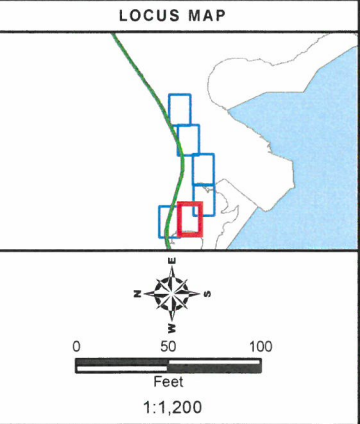
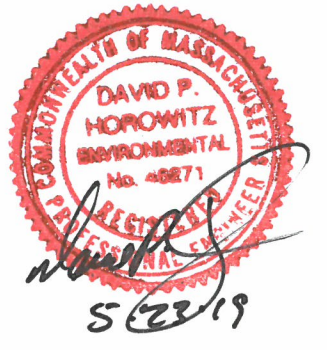
Page: **4**
 Andrew Square to Dewar Street
 Reliability Project - Soil Borings
 Boston, Massachusetts
 May 2019





**FIGURE 4:
ORTHOGRAPH
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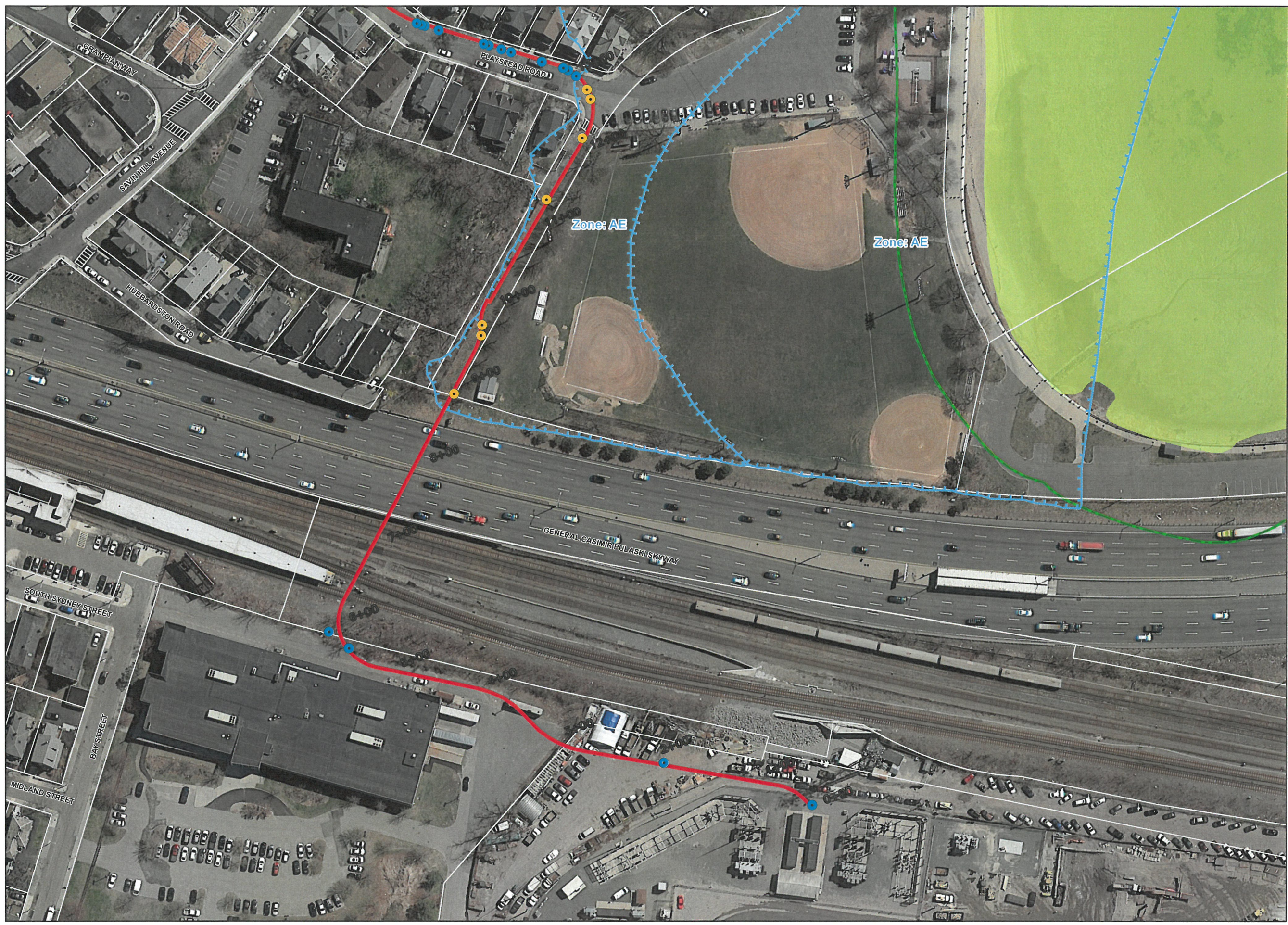


NOTES
 Data source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology
 Based on MassGIS Color Orthophotography
 FEMA Flood Data: MassGIS, 2018
 Data valid as of May 2019

Page: **5**

Andrew Square to Dewar Street
 Reliability Project - Soil Borings
 Boston, Massachusetts
 May 2019



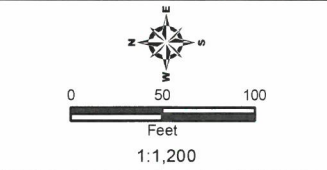
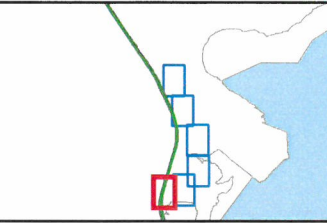


**FIGURE 4:
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LOCUS MAP



NOTES
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 Based on MassGIS Color Orthophotography
 FEMA Flood Data: MassGIS, 2018
 Data valid as of May 2019.

Page: **6**
 Andrew Square to Dewar Street
 Reliability Project - Soil Borings
 Boston, Massachusetts
 May 2019



NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **Floodway Data** have been determined, users are encouraged to consult the **Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations** tables contained within the **Flood Insurance Study (FIS)** Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

The AE Zone category has been divided by a **Limit of Moderate Wave Action (LMWA)**. The LMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LMWA (or between the shoreline and the LMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Massachusetts State Plane Meters Datum Zone 18 (IPSS zone 2001). The horizontal datum was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NIMS12
National Geodetic Survey
SSM-C3, #0202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM is derived from Massachusetts Geographic Information System (MassGIS) digital ortho-photography produced at 45 centimeter (2005) and 30 centimeter (2008) resolution. Aerial photography is dated Spring 2005 and Spring 2008.

The profile baselines depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the profile baselines, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data Tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unweeded streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have questions about this map, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information Exchange (MIEX)** at 1-877-FEMA-MAIP (1-877-369-6277) or visit the FEMA website at <http://www.fema.gov/business/mip>.

Only coastal structures that are certified to provide protection from the 1-percent-annual chance flood are shown on this panel. However, all structures taken into consideration for the purpose of coastal flood hazard analysis and mapping are present in the DFIRM database in S_Gen_Struct.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the "base flood," is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zone A, AE, AH, AO, AV, VE, and V. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

ZONE A
No Base Flood Elevations determined.

ZONE AE
Base Flood Elevations determined.

ZONE AH
Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO
Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined; for areas of abated flow flooding, widths also determined.

ZONE AR
Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently derelict. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE AV
Areas to be protected from the 1% annual chance flood by a Federal flood protection system under construction, or Base Flood Elevations determined.

ZONE VE
Coastal flood zone with velocity hazard (wave action); No Base Flood Elevations determined.

ZONE VE
Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachments to maintain the 1% annual chance flood level, or correct without substantial increases in flood stage.

OTHER FLOOD AREAS

ZONE X
Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of more than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X
Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D
Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% Annual Chance Floodplain Boundary
0.2% Annual Chance Floodplain Boundary
Floodway boundary
Zone boundary
CBRS and OPA boundary

Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.

Limit of Moderate Wave Action
Limit of Moderate Wave Action coincident with Zone Break

Base Flood Elevation line and value; elevation in feet
Base Flood Elevation value where uniform within zone; elevation in feet

Referenced to the North American Vertical Datum of 1988

North Arrow

Cross section line
Trenched line
Culvert

Bridge

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere

49°02'08", 92°02'12"

498000 M
1000-meter grid; Massachusetts State Plane Meters Datum
FIPS Zone 5003; Lambert Conformal Conic projection
3000-meter Universal Transverse Mercator tick values, zone 19N

89°00' N
DMS10 X
Bench mark (see explanation in Notes to Users section of this FIRM panel)

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTY/WIDE FLOOD INSURANCE RATE MAP
September 29, 2009

EFFECTIVE DATES (OF REVISIONS) TO THIS PANEL
March 16, 2016 - to change Base Flood Elevations and Special Flood Hazard Areas, to change zone designations, to update the effects of wave action, to update corporate limits, to add roads and road names, to incorporate previously issued Letters of Map Change, and to modify Coastal Barrier Resource System areas.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 600' / 1" = 180 METERS

0 250 500 1000 FEET
0 150 300 METERS

NFIP

FIRM

FLOOD INSURANCE RATE MAP

SUFFOLK COUNTY,

MASSACHUSETTS

(ALL JURISDICTIONS)

PANEL 83 OF 176
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY NUMBER	PANEL NUMBER	SUFFIX
BOSTON, CITY OF	25028	2
	25031	7

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
25025C0083J

MAP REVISED
MARCH 16, 2016

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the **Flood Profiles and Floodway Data** and/or **Summary of Stillwater Elevations** tables contained within the **Flood Insurance Study (FIS)** Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Coastal Base Flood Elevations shown on this map apply only landward of 0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the **Summary of Stillwater Elevations** table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the **Summary of Stillwater Elevations** table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

The AE Zone category has been divided by a **Limit of Moderate Wave Action (LMWA)**. The LMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LMWA (or between the shoreline and the LMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Massachusetts State Plane Meters Zone 18 (NAD 83 zone 2001). The horizontal datum was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
 NOAA, NIMS12
 National Geodetic Survey
 SSMC3, #0202
 1315 East-West Highway
 Silver Spring, Maryland 20910-3282
 (301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM is derived from Massachusetts Geographic Information System (MassGIS) digital ortho-photography produced at 45 centimeter (2005) and 30 centimeter (2008) resolution. Aerial photography is dated Spring 2005 and Spring 2008.

The profile baselines depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the profile baseline, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data Tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unweeded streams may differ from what is shown on previous maps.

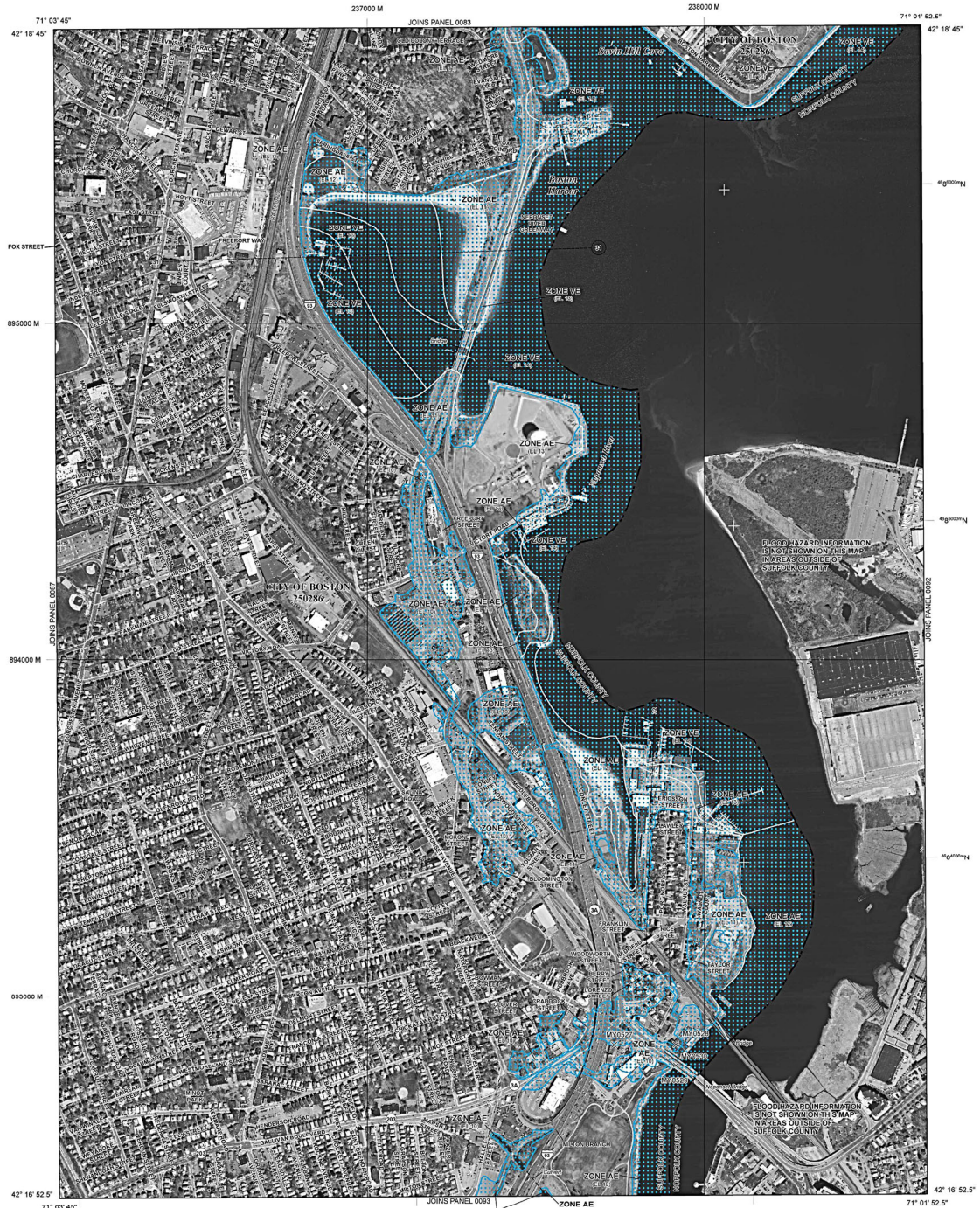
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program data for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have questions about this map, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information Exchange (MIEX)** at 1-877-FEMA-MAP (1-877-369-6297) or visit the FEMA website at <http://www.fema.gov/business/mip>.

Only coastal structures that are certified to provide protection from the 1-percent-annual chance flood are shown on this panel. However, all structures taken into consideration for the purpose of coastal flood hazard analysis and mapping are present in the DFIRM database in S_Gen_Struct.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (500 year flood), also known as the "base flood," is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zone A, AE, AH, AO, AV, VE, and VE-1. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

ZONE A
 No Base Flood Elevations determined.

ZONE AE
 Base Flood Elevations determined.

ZONE AH
 Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO
 Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined; for areas of sheet flow flooding, velocities also determined.

ZONE AV
 Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently derelict. Zone AV includes that former flood control system being restored to provide protection from the 1% annual chance or greater flood.

ZONE AVS
 Areas to be protected from the 1% annual chance flood by a federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V
 Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE
 Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment to insure the 1% annual chance flood can be carried without substantial increase in flood stage.

OTHER FLOOD AREAS

ZONE X
 Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X
 Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D
 Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% Annual Chance Floodplain Boundary
 0.2% Annual Chance Floodplain Boundary
 Floodway boundary
 Zone boundary
 CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
 Limit of Moderate Wave Action
 Limit of Moderate Wave Action coincident with Zone Break

Base Flood Elevation line and value; elevation in feet
 Base Flood Elevation value where uniform within zone; elevation in feet

Referenced to the North American Vertical Datum of 1988

⊕ Cross section line
 ⊖ Transient line
 ⊘ Culvert

— Bridge
 Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
 498000 M 1000-meter grid; Massachusetts State Plane Meters Zone 18 (FIPS Zone 5001) Lambert Conformal Conic projection
 19° 00' 00" N 1000-meter Universal Transverse Mercator tick values, zone 19N
 055110 X MAP REPOSITORIES
 Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
 September 28, 2009

EFFECTIVE DATES OF REVISIONS TO THIS PANEL
 March 16, 2016 - to change Base Flood Elevations and Special Flood Hazard Areas, to change zone designations, to update the effects of wave action, to update corporate limits, to add roads and road names, to incorporate previously issued Letters of Map Change, and to modify Coastal Barrier Resource System boundaries.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 600'
 0 150 300 FEET
 0 150 300 METERS

NFIP PANEL 0091J

FIRM
 FLOOD INSURANCE RATE MAP
 SUFFOLK COUNTY,
 MASSACHUSETTS
 (ALL JURISDICTIONS)

PANEL 91 OF 176
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
 COMMUNITY NUMBER 25028
 PANEL NUMBER 0091 J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER 250250091J
MAP REVISED MARCH 16, 2016
 Federal Emergency Management Agency

Tighe&Bond


APPENDIX C

Photographic Log

Client: NSTAR Electric Company D/B/A Eversource Energy

Job Number: E-0755-72

Site: Andrew Square to Dewar Street

Photograph No.: 1	Date: 10/10/18	Direction Taken: North
Description: Morrissey Boulevard facing north from northbound lanes. Site of proposed test pit location near Station 52+00.		
		

Photograph No.: 2	Date: 10/10/18	Direction Taken: North
Description: Morrissey Boulevard facing north from southbound lanes. Site of proposed test pit and environmental sampling location near Station 41+00.		
		

Photographic Log

Client: NSTAR Electric Company D/B/A Eversource Energy

Job Number: E-0755-72

Site: Andrew Square to Dewar Street

Photograph No.: 3	Date: 10/10/18	Direction Taken: North
Description: Intersection of Old Colony Terrace and Morrissey Boulevard facing north. Site of proposed test pit near Station 37+60		


Photograph No.: 4	Date: 10/10/18	Direction Taken: Southwest
Description: Old Colony Terrace facing southwest. Site of proposed test pit near Station 36+00.		

Photographic Log

Client: NSTAR Electric Company D/B/A Eversource Energy

Job Number: E-0755-72

Site: Andrew Square to Dewar Street

Photograph No.: 5	Date: 10/10/18	Direction Taken: West
Description: Springdale Street facing west. Site of proposed test pit near Station 12+00.		
		

Photograph No.: 6	Date: 10/10/18	Direction Taken: West
Description: Paper street off Springdale Street facing west. Site of proposed geotechnical boring near Station 11+00.		
		

Photographic Log

Client: NSTAR Electric Company D/B/A Eversource Energy

Job Number: E-0755-72

Site: Andrew Square to Dewar Street

Photograph No.: 7	Date: 10/10/18	Direction Taken: West
Description: Paper street off Springdale Street facing west. Site of proposed test pit and monitoring well near Station 9+40.		
		

Tighe&Bond

APPENDIX D

100-foot Abutters from Proposed Boring Locations Within Jurisdictional Areas
 Andrew Square to Dewar Street Reliability Project Subsurface Exploration
 Boston, Massachusetts

WARD	PARCEL	ST_NUM	ST_NAME	ST_NAME_SU	ZIPCODE	OWNER	MAIL_ADDRE	MAIL_ADD_1	MAIL_CS	MAIL_ZIPCO
13	2236	23	PLAYSTEAD	RD	02125	PAVIDIS MARTHA J		23 PLAYSTEAD RD	DORCHESTER MA	02125
13	2258	23 21	DENNY	ST	02125	HILL JEFFERY S	C/O JEFFERY S HILL	23 DENNY ST	DORCHESTER MA	02125
13	3400	200	WM T MORRISSEY	BL	02125	COMMONWEALTH OF MASS		200 WM T MORRISSEY BLVD	DORCHESTER MA	02125
13	2234	15	PLAYSTEAD	RD	02125	MONROE CHARLES H	C/O CHARLES H MONROE	15 PLAYSTEAD RD	DORCHESTER MA	02125
13	2222	22	HUBBARDSTON	RD	02125	BRAHO GENTIAN		22 HUBBARDSTON RD	DORCHESTER MA	02125
13	2263	20	PLAYSTEAD	RD	02125	BARBUTO PETER F ETAL		20 PLAYSTEAD RD	DORCHESTER MA	02125
13	2238		SPRINGDALE	ST	02125	CITY OF BOSTON		SPRINGDALE	DORCHESTER MA	02125
13	2237		SPRINGDALE	ST	02125	CITY OF BOSTON BY FCL		SPRINGDALE ST	DORCHESTER MA	02125
13	2261	28 30	PLAYSTEAD	RD	02125	GARSDALE CHRISTOPHER J		28 PLAYSTEAD RD	DORCHESTER MA	02125
13	2257	19 17	DENNY	ST	02125	MARTINI VALBONA	C/O VALBONA MARTINI	19 DENNY ST	DORCHESTER MA	02125
13	2229	141	SAVIN HILL	AV	02125	SAVIN HILL CONDOMINIUM TR		141 SAVIN HILL AV	DORCHESTER MA	02125
13	2262	24 26	PLAYSTEAD	RD	02125	STASA GJERGJI		26 PLAYSTEAD RD	DORCHESTER MA	02125
13	2363-2	285	WM T MORRISSEY	BL	02125	BROTCHIE WILLIAM K	C/O WILLIAM BROTCHE	285 MORRISSEY BL	DORCHESTER MA	02125
13	3404	40	WM T MORRISSEY	BL	02125	S-BNK DORCHESTER OPERATIONS	C/O BEACON CAPITAL PARTNERS	200 STATE ST 5TH FLOOR	BOSTON MA	02109
13	3405	2	WM T MORRISSEY	BL	02125	S-BNK DORCHESTER OPERATIONS	C/O BEACON CAPITAL PARTNERS	200 STATE ST 5TH FLOOR	BOSTON MA	02109
13	2365	10	OLD COLONY	TE	02125	LYDON MARK		10 OLD COLONY TE	DORCHESTER MA	02125
13	2260	44	SPRINGDALE	ST	02125	SMEGLIN ANDREA J	C/O ANDREA J SMEGLIN	44 SPRINGDALE ST	DORCHESTER MA	02125
13	2363-1		OLD COLONY	TE	02125	WALPOLE ROBERT HENRY	C/O ROBERT HENRY WALPOLE	277 SAVIN HILL AVE	DORCHESTER MA	02125
13	2364-19	35 -45	WM T MORRISSEY	BL	02124	MORRISSEY HOLDINGS LLC	C/O SYNERGY INVESTMENTS	100 FRANKLIN ST 2ND FLOOR	BOSTON MA	02110
13	2634-11	25	WM T MORRISSEY	BL	02124	QIANLONG CRITERION VENTURES	QIANLONG CRITERION VENTURES	1601 TRAPELO RD SUITE #280	WALTHAM MA	02451
13	2364-17		WM T MORRISSEY	BL	02124	COMMONWEALTH OF MASS MDC		WM T MORRISSEY BL	DORCHESTER MA	02124
13	2364-21	55	WM T MORRISSEY	BL	02124	MORRISSEY HOLDINGS LLC	C/O SYNERGY INVESTMENTS	100 FRANKLIN ST 2ND FLOOR	BOSTON MA	02110
13	2364-14		WM T MORRISSEY	BL	02124	MORRISSEY HOLDINGS LLC	C/O SYNERGY INVESTMENTS	100 FRANKLIN ST 2ND FLOOR	BOSTON MA	02110
13	2364-13		WM T MORRISSEY	BL	02124	QIANLONG CRITERION VENTURES	QIANLONG CRITERION VENTURES	1601 TRAPELO RD SUITE #280	WALTHAM MA	01730
13	2360	273 275	SAVIN HILL	AV	02125	CROKE ROGER L		273 SAVIN HILL AVE	DORCHESTER MA	02125
13	2363	277 279	SAVIN HILL	AV	02125	WALPOLE ROBERT HENRY	C/O ROBERT HENRY WALPOLE	277 SAVIN HILL AVE	DORCHESTER MA	02125
7	2853	10 22	KEMP	ST	02127	BOSTON HOUSING AUTHORITY		10 KEMP	SOUTH BOSTON MA	02127
13	2220		SAVIN HILL	AV	02125	COMMWLTH OF MASS		SAVIN HILL AVE	DORCHESTER MA	02125
13	2264	18 16	PLAYSTEAD	RD	02125	FINNIGAN KATHERINE A TS	C/O JULIE A SIMMONS	27 BOUTWELL ST	DORCHESTER MA	02122
13	2221	24	HUBBARDSTON	RD	02125	DENNIS JENNIE C	C/O JENNIE C DENNIS	24 HUBBARDSTON RD	DORCHESTER MA	02125
7	2847	391 439	OLD COLONY	AV	02127	BOSTON HOUSING AUTHORITY		391 OLD COLONY AVE	SOUTH BOSTON MA	02127
13	2366	2	OLD COLONY	TE	02125	THOMAS OWEN	C/O OWEN THOMAS	2 OLD COLONY TE	DORCHESTER MA	02125
13	3403	50	WM T MORRISSEY	BL	02125	S-BNK DORCHESTER OPERATIONS	C/O BEACON CAPITAL PARTNERS	200 STATE ST 5TH FLOOR	BOSTON MA	02109
13	2235	19 17	PLAYSTEAD	RD	02125	ERRICO DONALD J JR		19 PLAYSTEAD RD	DORCHESTER MA	02125
13	2364-45	75 77	WM T MORRISSEY	BL	02127	HERB CHAMBERS MORRISSEY BLVD	C/O POB CC 75 MORRISSEY LLC	8 STONY BROOK PL	ARMONK NY	10504
13	3401	160 150	WM T MORRISSEY	BL	02125	BOSTON COLLEGE HIGH		160 WM T MORRISSEY BLVD	DORCHESTER MA	02125
7	541		COLUMBIA	CI	02127	CITY OF BOSTON	C/O PARKS & RECREATION	1010 MASSACHUSETTS AV 3RD FL	BOSTON MA	02118
13	2364-55		WM T MORRISSEY	BL	02127	COMMWLTH OF MASS		WM T MORRISSEY BLVD	DORCHESTER MA	02125
13	2364-50	135	WM T MORRISSEY	BL	02127	BOSTON GLOBE PROPERTIES LLC	C/O KAREN BRAY	135 MORRISSEY BLVD	BOSTON MA	02125
13	2259	25	DENNY	ST	02125	OSULLIVAN ROBERT F JR		25 DENNY ST	DORCHESTER MA	02125

NOTIFICATION TO ABUTTERS

Under the Massachusetts Wetlands Protection Act

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40 you are hereby notified of the following:

- A. The name of the applicant is the: **NSTAR Electric Company D/B/A Eversource Energy (Attn: Michael Zylich)**
- B. The applicant has filed a Notice of Intent (NOI) with the Conservation Commission for the municipality of the **City of Boston** seeking permission to remove, fill, dredge or alter an Area Subject to Protection or within 100 feet of an area subject to protection under the Wetlands Protection Act (General Laws Chapter 131, Section 40).
- C. The location the proposed activity subject to Conservation Commission jurisdiction is **within the public roadway right-of-way located between Eversource's Station 106 in Andrew Square and Station 483 on Dewar Street in Boston, Massachusetts.**

The proposed project involves the advancement of soil borings and test holes to gather environmental and geotechnical information in advance of the proposed installation of a 115 kV underground transmission line.

- D. Copies of the NOI may be examined at the **Boston Conservation Commission Office, One City Hall Square, Room 709 Boston, MA 02201** between the hours of 8:00A.M. and 5:00P.M. on the following days of the week: Monday through Friday

For more information on the filing or proposed work, call: **(413) 572-3256 Attn: Tracy Adamski**

Check One: This is the applicant , **representative** , or other (specify):

- E. Copies of the NOI may be obtained from either (check one) the applicant , or the **applicant's representative** , by calling this telephone number: **413-572-3256 Attn: Tracy Adamski** between the hours of 8:00 A.M. and 5:00 P.M. on the following days of the week: Monday through Thursday.
- F. Information regarding the date, time and place of the public hearing may be obtained from the **Boston Conservation Commission**, by calling the following telephone number: **(617) 635-3850** between the hours of 8:00 A.M. and 5:00 P.M. on the following days of the week: Monday through Friday.

¹ **Copies of the NOI may be requested for an additional cost. Please contact the applicant's representative for more information.**

² **You also may contact the Department of Environmental Protection Northeast Regional Office for more information about this application or the Wetlands Protection Act at: (978) 694-3200**

³ **Notice of the public meeting, listing all hearings, including the date, time and place, will be posted in the Boston Town Hall not less than forty-eight (48) hours in advance of the meeting date.**

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

I, Tracy Adamski, hereby certify under the pains and penalties of perjury that on 5/21/2019 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, in connection with the following matter:

On behalf of NSTAR Electric Company D/B/A Eversource Energy, a Notice of Intent filed under the Massachusetts Wetlands Protection Act by Tighe & Bond with the Boston Conservation Commission on 5/21/2019.

The form of the notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.



Name: Tracy Adamski Date: 5/21/19

Notice by: Certified Mail Certificates of Mailing Hand Delivery



100% Recyclable



www.tighebond.com