

May 1, 2019

***Sent Via Certified Mail***

Attn: Boston Conservation Commission  
1 City Hall Square,  
Room 709 Boston, MA  
02201

**RE: Long Wharf Seawall Stabilization Project  
Boston Planning and Development Agency  
22 Dry Dock Avenue, Boston, MA, 02210  
Notice of Intent Application**

Dear Sir or Madam:

On behalf of the Boston Planning and Development Agency, Foth-CLE Engineering (Foth) is pleased to provide you with a copy of the Notice of Intent Application for the proposed Long Wharf Seawall Stabilization Project located at Long Wharf Pier in Boston Inner Harbor. The overall intent of the project is to stabilize the existing granite seawall adjacent to the ferry berth. The work includes the installation of a new sheet pile bulkhead as close as possible to the toe of the existing wall. The final elevation of the bulkhead will be at the Mean Lower Low Water line, approximately 13' below the top of the existing wall. The existing seawall will be covered with a geotextile fabric and the area between the new and existing walls will be filled with a flowable fill.

On behalf of the Boston Planning and Development Agency, I would like to thank you in advance for your assistance in keeping this project on track. If you have any questions, concerns or need any further information please contact me in our office at (401) 236-0361.

Sincerely,  
**Foth-CLE Engineering Group**



Scott Skuncik, P.E.  
Lead Civil Engineer



May 1, 2019

***Sent Via Certified Mail***

Attn: MassDEP  
DEP Division of Wetlands and Waterways  
One Winter Street  
Boston, MA 02108

**RE: Long Wharf Seawall Stabilization Project  
Boston Planning and Development Agency  
22 Dry Dock Avenue, Boston, MA, 02210  
Notice of Intent Application**

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Sincerely,  
**Foth-CLE Engineering Group**

A handwritten signature in blue ink, appearing to read "S. Skuncik", is written over a light blue rectangular background.

Scott Skuncik, P.E.  
Lead Civil Engineer



May 1, 2019

***Sent Via Certified Mail***

Division of Marine Fisheries  
North Shore Office  
Attn: Environmental Reviewer  
30 Emmerson Avenue  
Gloucester, MA 01930

**RE: Long Wharf Seawall Stabilization Project  
Boston Planning and Development Agency  
22 Dry Dock Avenue, Boston, MA, 02210  
Notice of Intent Application**

Dear Environmental Reviewer:

On behalf of the Boston Planning and Development Agency, Foth-CLE Engineering (Foth) is pleased to provide you with a copy of the Notice of Intent Application for the proposed Long Wharf Seawall Stabilization Project located at Long Wharf Pier in Boston Inner Harbor. The overall intent of the project is to stabilize the existing granite seawall adjacent to the ferry berth. The work includes the installation of a new sheet pile bulkhead as close as possible to the toe of the existing wall. The final elevation of the bulkhead will be at the Mean Lower Low Water line, approximately 13' below the top of the existing wall. The existing seawall will be covered with a geotextile fabric and the area between the new and existing walls will be filled with a flowable fill.

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**Foth-CLE Engineering Group**

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Scott Skuncik, P.E.  
Lead Civil Engineer



**boston planning &  
development agency**

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## Notice of Intent

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### Long Wharf Seawall Stabilization



Date: May 1, 2019

Submitted To:  
Boston Conservation Commission  
1 City Hall Sq. | Room 709 | Boston, MA 02201

Prepared for:  
Boston Planning and Development Agency  
22 Dry Dock Avenue | Boston, MA 02210

Prepared by:



Foth-CLE Engineering Group  
49 Bellevue Avenue | Newport, RI 02840  
T: 401.236.0361  
[www.Foth.com](http://www.Foth.com) | [www.CLEngineering.com](http://www.CLEngineering.com)



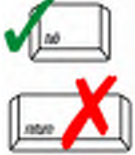
**Massachusetts Department of Environmental Protection**  
**Bureau of Resource Protection - Wetlands**

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

**WPA Form 3 – Notice of Intent**

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.



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):**

206 Atlantic Avenue Boston 02110  
 a. Street Address b. City/Town c. Zip Code  
 Latitude and Longitude: 42.360120 N -71.048076 W  
 d. Latitude e. Longitude  
 \_\_\_\_\_ 0303004000  
 f. Assessors Map/Plat Number g. Parcel /Lot Number

**2. Applicant:**

Dolores Fazio  
 a. First Name b. Last Name  
Boston Planning and Development Agency  
 c. Organization  
22 Dry Dock Avenue  
 d. Street Address  
Boston MA 02210  
 e. City/Town f. State g. Zip Code  
617-918-6209 \_\_\_\_\_ Dolores.fazio@boston.gov  
 h. Phone Number i. Fax Number j. Email Address

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

\_\_\_\_\_ Same  
 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):**

Scott Skuncik, P.E.  
 a. First Name b. Last Name  
Foth-CLE Engineering Group  
 c. Company  
49 Bellevue Avenue  
 d. Street Address  
Newport RI 02840  
 e. City/Town f. State g. Zip Code  
401-236-0361 \_\_\_\_\_ Scott.skuncik@foth.com  
 h. Phone Number i. Fax Number j. Email address

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

Fee Exempt (City)  
 a. Total Fee Paid b. State Fee Paid c. City/Town Fee Paid



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Bureau of Resource Protection - Wetlands

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**A. General Information (continued)**

6. General Project Description:

Project includes stabilizing approx. 200 LF of displaced stones on the south side of Long Wharf. Cantilevered steel sheet piles will be driven below the mudline and the area behind the sheets back filled. The area behind the seawall will be excavated and a geotextile fabric will be placed behind the ex. wall to MLLW elevation. Crushed stone will be placed on top of the geotextile to restore ex. grade

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)

Maintenance to pier which existed on November 1, 1987. (per 310 CMR 10.24(7)(c)2)

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

8373

c. Book

b. Certificate # (if registered land)

558

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.



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

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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 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) - <b>specify coastal or inland</b>	

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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**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 checked="" type="checkbox"/> Land Under the Ocean	1,000 SF 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	_____	2. cubic yards beach nourishment
	1. square feet	
e. <input type="checkbox"/> Coastal Dunes	_____	2. cubic yards dune nourishment
	1. square feet	

	<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	_____	2. sq ft restoration, rehab., creation
	1. square feet	
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	5,405 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](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**

3/20/19  
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

2.  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.



Massachusetts Department of Environmental Protection  
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### C. Other Applicable Standards and Requirements (cont'd)

- (c)  MESA filing fee (fee information available at [http://www.mass.gov/dfwele/dfw/nhesp/regulatory\\_review/mesa/mesa\\_fee\\_schedule.htm](http://www.mass.gov/dfwele/dfw/nhesp/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/nhesp/regulatory\\_review/mesa/mesa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhesp/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](mailto: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](mailto: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**

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**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.

"Long Wharf Pier Seawall Stabilization," Dated 3/21/19, 3 sheets

a. Plan Title

Foth-CLE Engineering Group

Scott Skuncik, P.E.

b. Prepared By

c. Signed and Stamped by

03/21/19

As Noted

d. Final Revision Date

e. Scale

Project Narrative

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:

2. Municipal Check Number

3. Check date

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

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### F. Signatures and Submittal Requirements

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

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

1. Signature of Applicant

2. Date

4/26/19

3. Signature of Property Owner (if different)

4. Date

6. Date

4/23/19

5. Signature of Representative (if any)

#### 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.

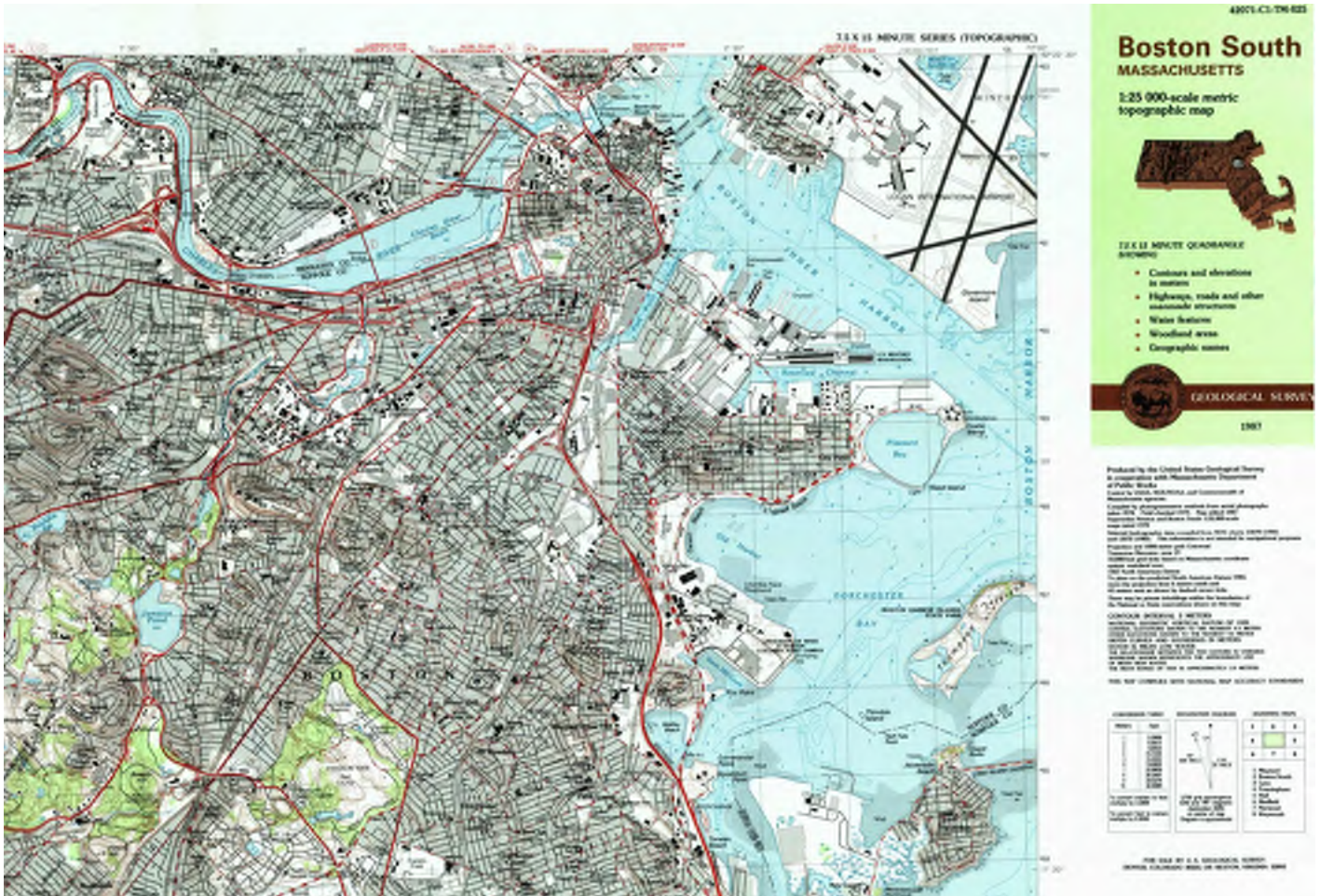
## ***Table of Attachments***

Exhibit A	Vicinity Map: USGS Quad Sheet, South Boston, MA
Exhibit B	Site Photographs
Exhibit C	Project Narrative
Exhibit D	FEMA Firm Map
Exhibit E	Abutters List and Notice to Abutters
Exhibit F	Plans entitled, "Long Wharf Pier Seawall Stabilization," dated 03/21/19, 5 sheets
Exhibit G	NOI Fee Transmittal Forms
Exhibit H	Proof of Mailings, DMF and DEP NE



*Exhibit A*

**Vicinity Map:  
USGS Quad Sheet, South Boston, MA**



**Exhibit B**

**Site Photographs**



Existing Seawall Looking East from Topside



Previous Seawall Repairs Looking North from Floats





Previous Seawall Repairs from Dive Inspection



Typical Seawall Condition in Proposed Repair Area



Typical Seawall Voids in Proposed Repair Area



Typical Displaced Granite Blocks in Proposed Repair Area

## ***Exhibit C*** ***Project Narrative***

### **Project Description**

The purpose of this Notice of Intent Permit Application is to seek approval for the proposed maintenance to the Boston Planning and Development Agency's infrastructure at Long Wharf. The project site is at Long Wharf located at 206 Atlantic Avenue (City of Boston Parcel ID: 0303004000) on Boston Inner Harbor. This project is a water dependent project involving maintenance to support continued use of Long Wharf as a pedestrian park and ferry staging area. The project site is located in a FEMA Zone VE El. 13' NAVD88, in accordance with map number 25025C0081, revised March 16, 2016 (Exhibit D). Long Wharf is considered a key property of waterfront infrastructure in the City of Boston and functions as a launch for passenger ferries, sightseeing vessels, and as a public recreation area.

The proposed wharf maintenance includes the construction of a steel bulkhead seaward of the existing unstable granite block seawall as well as the installation of a geotextile fabric along the landward side of the existing seawall. The repair has been designed to minimize the area of impact by designing the proposed bulkhead to be installed as close as possible to the toe of the existing seawall.

The proposed sheet pile bulkhead will be constructed by driving steel sheet piles adjacent to the seaward face of the existing seawall. Sheet piles will be driven from a barge mounted or land based crane. Once the sheets are in place, the area between the bulkhead and the existing seawall will be backfilled with flowable fill. The final top elevation of the sheets and fill material will be -5.51' (NAVD88), which is the elevation of Mean Lower Low Water (MLLW). The repairs will also consist of the installation of a geotextile fabric behind the existing seawall. The existing granite pavers will be removed and the area will be excavated to elevation -5.51'. The fabric will be installed along the landward side of the existing seawall, have a 3' bench at -5.51' and be sloped back up at a 1.5H to 1V to the existing wharf elevation of approximately 8.0'. The excavated area will be backfilled with crushed stone and the existing pavers will be replaced.

### **Coastal Resource Areas:**

The proposed project is a water-dependent project that has been designed and will be constructed using the best available measures to avoid/minimize adverse impacts to coastal wetland resource areas. The limits of existing coastal resource areas within the vicinity of the proposed project are delineated on the plans provided in **Exhibit F**. The paragraphs presented below provide the following information:

- Identification and definition of each coastal wetland resource areas to be impacted by the proposed work;

- An assessment of the magnitude of anticipated impacts on each coastal wetland resource area; and
- Discussion on how the proposed work will meet the performance standards for each coastal wetland resource area impacted.

**Land Under Ocean:** Pursuant to 310 CMR 10.25,

*Means land existing from the mean low water line seaward to the boundary of the municipalities' jurisdiction and includes land under estuaries. Land under ocean provides feeding areas, spawning and nursery grounds and shelter for many coastal organisms related to marine fisheries. Near shore areas of land under the ocean also provide important food for birds.*

The performance standards for Land Under Ocean as defined in 310 CMR 10: Wetlands Protection, 10.25 Land Under the Ocean are listed below.

310 CMR 10.25(5)

*"Projects not included in 310 CMR 10.25(3) or 10.25(4) which affect nearshore areas of land under the ocean shall not cause adverse effects by altering the bottom topography so as to increase storm damage or erosion of coastal beaches, coastal banks, coastal dunes, or salt marshes."*

It is anticipated that approximately 205 linear feet, 1,000 square feet, and 248 cubic yards of fill will impact the Land Under Ocean due to the bulkhead and fill installation. The project site is not in an area of Shellfish Suitability or an NHESP mapped area. As the repairs will be adjacent to the existing seawall, there will be no change to the storm prevention characteristics of the site. The proposed project meets the performance standards for Land Under Ocean as follows:

- a) Bottom Topography: The proposed sheet pile repairs will have a minimum impact on bottom topography, as they will be installed immediately adjacent to the toe of the existing seawall. The sheet piles will prevent further erosion of the toe of the seawall, as well as prevent debris from entering the ferry berth.
- b) Water circulation: The proposed sheet pile repairs will have a minimum impact on water circulation in the area. The proposed repairs represent a small increase in size compared to the total size of the existing seawall and will not create a significant alteration to water circulation.
- c) Distribution of sediment grain size: The proposed sheet pile repairs will have a minimal impact on sediment grain sized distribution in the area. The sheets will be driven at the toe of the existing man made structure and will prevent the loss of fill through voids in the existing seawall.
- d) Water quality: The proposed sheet pile repairs will not have any negative impacts on water quality along the project area. All repair materials to be used will be of marine grade quality that is safe to the environment. The repairs will also prevent the loss of fill through voids in the existing seawall, which will improve water quality in that area.

- e) Finfish habitat: The proposed sheet pile repairs will have minimal impact to the local habitat and often attracts marine growth which provide a source of food and habitat for young finfish.
- f) Important food for wildlife: The proposed sheet pile repairs will have minimal impact to the local wildlife and often attracts marine growth which provide a source of food and habitat for young finfish.

***Land Subject to Coastal Storm Flowage:*** Pursuant to 310 CMR 10.04, Means land subject to any inundation caused by coastal storms up to and including that caused by the 100-year storm, surge of record or storm of record, whichever is greater. The areas mapped by the Federal Emergency Management Agency (FEMA) on community Flood Insurance Rate Maps (FIRM) as the 100-year flood plain within the coastal zone are included within LSCSF. LSCSF may be significant to the interests of storm damage prevention, flood control, pollution prevention and wildlife habitat. LSCSF in this area contains other jurisdictional resource areas which are important for storm damage prevention and flood control.

There are currently no performance standards for work in LSCSF. The proposed work seaward of the existing concrete seawall within LSCSF will entail excavation on the topside of the seawall, installation of a geotextile fabric along the landward side of the seawall, and placing of crushed stone on the top of the geotextile to restore grade. The project will have an impact area of approximately 5,400 SF of LSCSF as well as filling approximately 1,380 CY in backfilling the excavated area with crushed stone. The improvement of the structures will not alter the flood storage of eroded land and/or storm damage prevention capacity of the site or existing drainage patterns.

#### **Alternatives Considered:**

The proposed Long Wharf improvements have no off-site alternatives. On-site alternatives include:

- Option 1: No-build alternative: The no-build alternative will result in the eventual failure of the gravity seawall along the south east corner of Long Wharf. A failure would lead to debris entering the ferry berth and would limit the vessel use of the berth. The No-build alternative does not meet the project goals and would likely cause a larger problem with ferry traffic in and out of the adjacent berth.
- Option 2: Cantilevered Sheet Pile Bulkhead (Preferred Alternative): The proposed Cantilevered Sheet Pile Bulkhead driven to final elevation -5.51' (NAVD88) is the preferred alternative presented in this filing. The proposed bulkhead will stabilize the toe and the portion of the of the existing granite block seawall below MLLW and the geotextile fabric will protect the seawall above the MLLW from further material loss. This option will allow for continued use of the waterfront infrastructure without interruption due to debris from the seawall entering the adjacent ferry berths.
- Option 3: Anchored Sheet Pile Bulkhead: Foth considered the option of installing an

anchored bulkhead approximately 3'-4' below the top of the existing seawall. This option would require extensive excavation of Long Wharf Pier to install the anchors and would interrupt public usage of the area. Therefore, Option 3 was not considered further.

### **Construction Methodology**

This project will be constructed in typical industry fashion. The bulkhead will be installed sequentially, including the proposed backfill.

Construction will utilize both land based and/or barge mounted equipment. The area will be contained with a floating boom to collect any debris that enters the waterway. No demolition of the existing seawall is proposed.

### **Mitigation Measures**

The following restrictions are proposed:

1. Debris from construction operations is to be cleaned up on a regular basis and disposed of off site at a properly designated facility. Organic debris is considered a release and shall be cleaned up immediately in accordance with an approved plan.
2. No work is to be started until proper floating barriers have been erected. All barriers are to be maintained throughout construction.

As demonstrated above, the construction will minimize impacts to the resources protected under the Massachusetts Wetlands Protection Act and will meet the performance standards as required in the regulations.

### **Impact Calculations**

#### **Bulkhead Installation**

Install 205 linear feet (LF) of steel sheet pile bulkhead at the seaward of the toe of the existing granite block seawall resulting in an impact area of +/-1,000 SF of fill seaward of the HTL on the South wall.

#### **Geotextile Fabric Installation**

Excavate and install 5,405 square feet (SF) of geotextile fabric behind the existing seawall and re-fill the area with crushed stone.

***Exhibit D***

***FEMA Map Number 25025C0081J***

***Revised Date: 03/16/16***



**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 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 (LIMWA)**. The LIMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LIMWA (or between the shoreline and the LIMWA 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 Mainland Zone (FIPS 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 following address:

NGS Information Services  
NOAA, NNGS12  
National Geodetic Survey  
SSMC-3, #9202  
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 unrevised 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 (FMIX)** at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/nfp>.

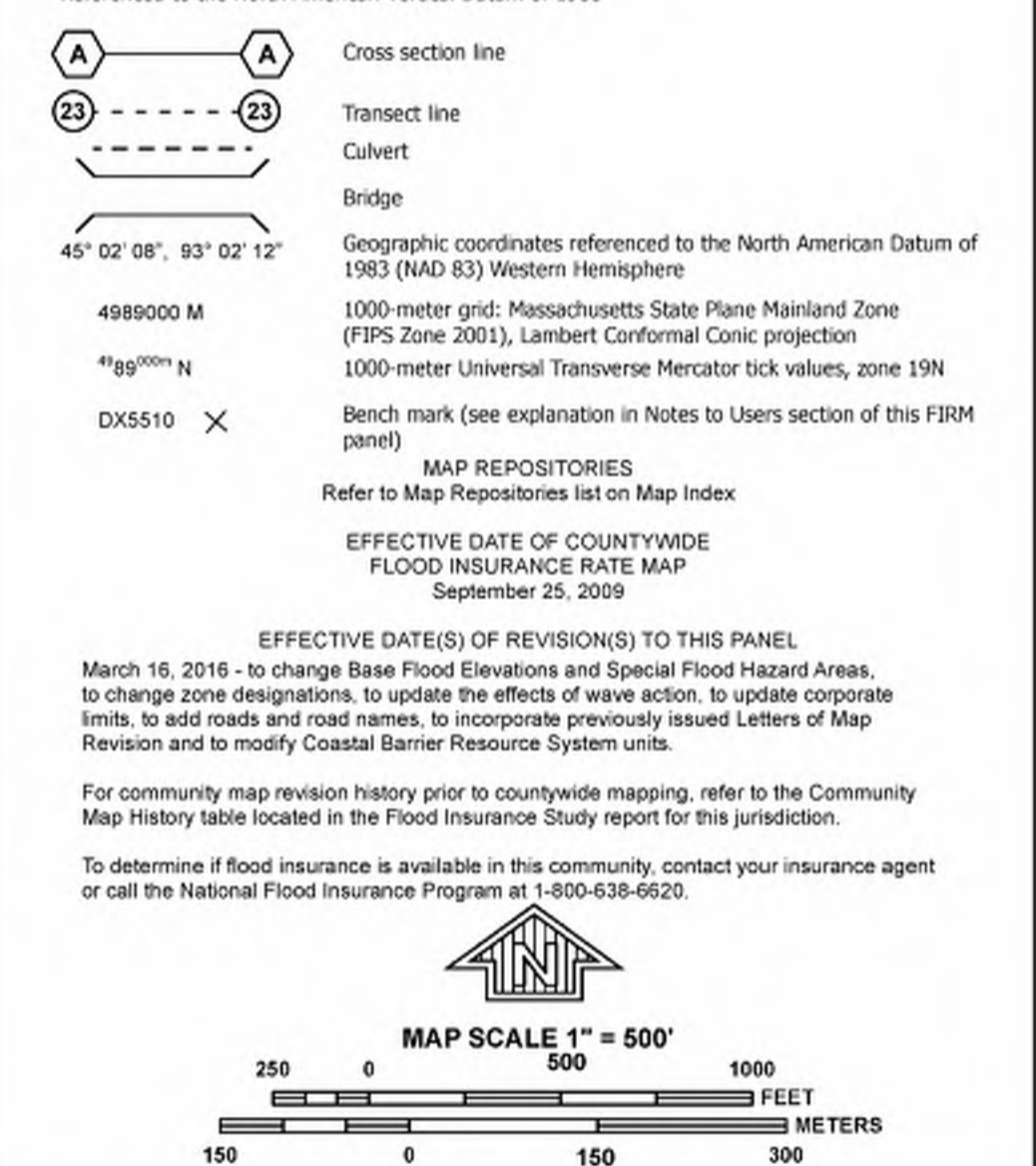
Only coastal structures that are certified to provide protection from the 1-percent-annual chance flood are shown on this panel. However, all structures taken into consideration for the purpose of coastal flood hazard analysis and mapping are present in the DFIRM database in S\_Gen\_Struct.



- KEY TO NUMBERED STREETS** 902000 M
1. FISKE'S WHARF
  2. HENCHMAN STREET
  3. GREENOUGH LANE
  4. BELORAVIA PLACE
  5. CONSTITUTION WHARF
  6. BATTERY WHARF
  7. GOODRIDGE CT
  8. MICHELANGELO STREET
  9. FOSTER COURT
  10. COMMERCIAL COURT
  11. POWERS COURT
  12. HANOVER AVENUE
  13. MURPHY COURT
  14. UNION WHARF
  15. FAIRFIELD PLACE
  16. WALSH PLACE
  17. SUN COURT STREET
  18. FLEET STREET
  19. NORTH BENNET COURT
  20. WIGGIN STREET
  21. NORTH BENNET PLACE
  22. PARMENTER STREET
  23. JERUSALEM PLACE
  24. MARGARET STREET
  25. NORTH HANOVER COURT
  26. NOYES PLACE
  27. LOMBARD PLACE
  28. NORTH MARGIN STREET
  29. ENDICOTT STREET
  30. THACHER COURT
  31. LYNN STREET
  32. ENDICOTT COURT
  33. LAFAYETTE AVENUE
  34. BLACKSTONE STREET
  35. CREEK SQUARE
  36. MARSHALL STREET
  37. SCOTT ALLEY
  38. MERCHANTS ROW
  39. CHATHAM ROW
  40. LIBERTY SQUARE
  41. BATTERY WARCH STREET
  42. CUSTOM HOUSE STREET
  43. WHARF STREET
  44. ANTHONY RIP VALENTI WAY
  45. UNION ST
  46. MARSH LN
  47. SALT LN
  48. CHATHAM ST
  49. MERCANTILE ST
  50. MCKINLEY SQ

**LEGEND**

- SPECIAL FLOOD HAZARD AREAS (SFHAs) 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 Zones A, AE, AH, AO, AR, A99, V, and VE. 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 alluvial fan flooding, velocities 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 A99** Area to be protected from 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 so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- 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** 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 D 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



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 0081J**

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

**PANEL 81 OF 176**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:  
COMMUNITY NUMBER PANEL SUFFIX  
BOSTON, CITY OF 250286 0081 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.

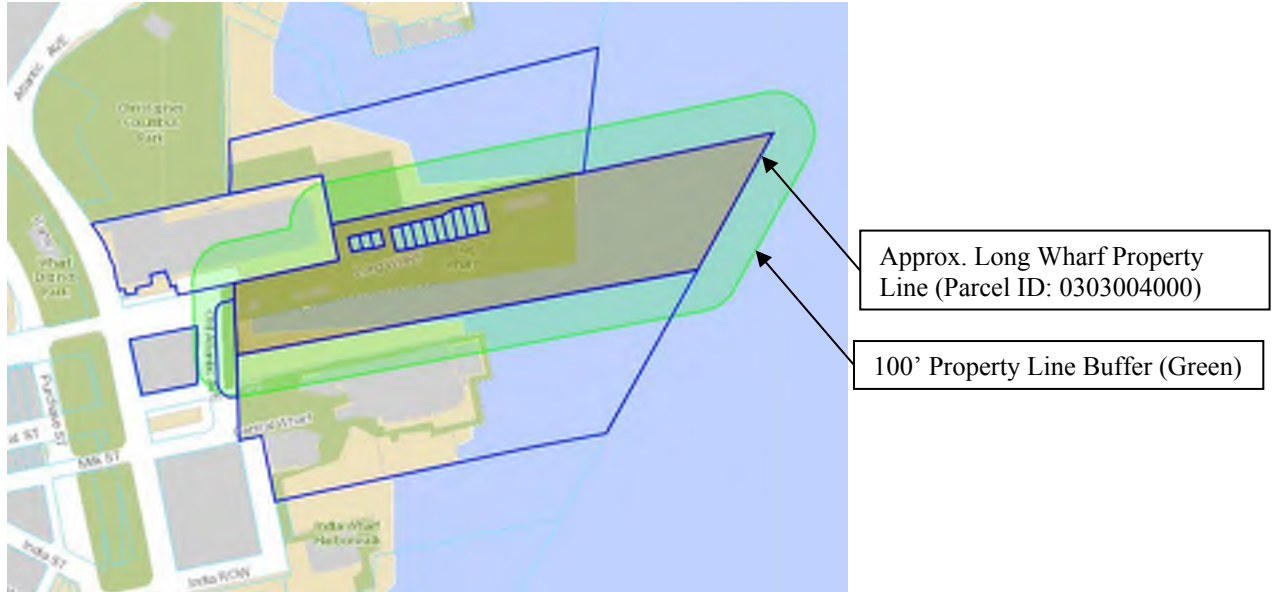
**MAP NUMBER 25025C0081J**  
**MAP REVISED MARCH 16, 2016**

Federal Emergency Management Agency



## Exhibit E

### Abutters List and Notice to Abutters



Per the NOI Filing Guidelines posted on the City of Boston Conservation website (updated 12/19/17):

#### 2. Abutter Notification Requirements

*The applicant must provide notification to abutters within 100 feet of the property line from where the work is proposed.*

Abutters within 100' of Project Site					
PID	City of Boston Parcel ID	Owner(s)	Property Address	Owner Address(es)	
1	303004000	BOSTON REDEVELOPMENT AUTH	206 214 ATLANTIC AV, BOSTON, MA 02110	206 ATLANTIC AVE, BOSTON, MA 02110	
2	303005000	CAP LONG WHARF LLC	70 LONG WHARF, BOSTON, MA 02110	115 BROADWAY 21ST FL, NY, NEW YORK, 10006	
3	303006000	CAP LONG WHARF LLC	69 LONG WHARF, BOSTON, MA 02110		
4	303007000	CAP LONG WHARF LLC	68 LONG WHARF, BOSTON, MA 02110		
5	303008000	CAP LONG WHARF LLC	67 LONG WHARF, BOSTON, MA 02110		
6	303009000	CAP LONG WHARF LLC	66 LONG WHARF, BOSTON, MA 02110		
7	303010000	CAP LONG WHARF LLC	65 LONG WHARF, BOSTON, MA 02110		
8	303011000	CAP LONG WHARF LLC	64 LONG WHARF, BOSTON, MA 02110		
9	303012000	CAP LONG WHARF LLC	63 LONG WHARF, BOSTON, MA 02110		
10	303013000	CAP LONG WHARF LLC	62 LONG WHARF, BOSTON, MA 02110		
11	303014000	CAP LONG WHARF LLC	60 LONG WHARF, BOSTON, MA 02110		
12	303015000	CAP LONG WHARF LLC	59 LONG WHARF, BOSTON, MA 02110		
13	303016000	CAP LONG WHARF LLC	58 LONG WHARF, BOSTON, MA 02110		
14	303026000	BOSTON REDEVELOPMNT AUTH	ATLANTIC AV, BOSTON, MA 02110		ATLANTIC AV, BOSTON, MA 02111
15	303020000	SUNSTONE WHARF LLC	296 STATE ST, BOSTON, MA 02109		200 SPECTRUM CENTER DR 21ST, IRVINE, CA 92618
16	302990010	BOSTON REDEVELOPMENT AUTH	ATLANTIC AV, BOSTON, MA 02114	1 CITY HALL PLZ, BOSTON, MA 02204	
17	303821000	TWO FIFTY FIVE STATE ST LLC	237 247 STATE ST, BOSTON, MA 02109	255 STATE ST FL#2, BOSTON, MA 02109	
18	302990000	NEW ENGLAND AQUARIUM	248 ATLANTIC AV, BOSTON, MA 02114	248 ATLANTIC AV, BOSTON, MA 02114	



May 1, 2019

Notification to Abutters  
Under the Massachusetts Wetlands Protection Act

RE: Notice of Intent for Long Wharf Pier  
Seawall Stabilization  
206 Atlantic Avenue  
Boston, MA 02110

The Boston Planning and Development Agency is proposing a project to stabilize the existing granite block seawall at Long Wharf Pier located at 206 Atlantic Avenue in Boston, MA. The project includes installation of a new sheet pile bulkhead as close as possible to the toe of the existing wall. The final elevation of the sheets will be at the Mean Lower Low Water mark, approximately 13' below the top of the existing wall. The existing seawall will be covered with a geotextile fabric and the area between the new and existing walls will be filled with a flowable fill.

As an abutter to this project site, in accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified that a Notice of Intent (NOI) has been filed with the City of Boston Conservation Commission. The NOI describes the proposed seawall stabilization project.

Copies of the Notice of Intent may be examined at the Office of the Boston Conservation Commission, Boston City Hall – Room 709, between the hours of 8:00 AM to 5:00 PM Monday through Friday.

A Public Hearing will be held by the Boston Conservation Commission on May 15, 2019, at 6:00 PM in Boston City Hall in the Piemonte Room, 5<sup>th</sup> Floor. 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, and will also be posted in the City Hall not less than forty-eight (48) hours in advance.

You may also contact the Department of Environmental Protection, Northeast Region Office, at (978) 694-3200 for more information about this application or the Wetlands Protection Act.

***Exhibit F***

***Plans entitled, "Long Wharf Pier Seawall Stabilization," dated 03/21/19,  
5 sheets***



Abutters within 100' of Property Line				
PID	City of Boston Parcel ID	Owner(s)	Property Address	Owner Address(es)
1	303004000	BOSTON REDEVELOPMENT AUTH	206 214 ATLANTIC AV, BOSTON, MA 02110	206 ATLANTIC AVE, BOSTON, MA 02110
2	303005000	CAP LONG WHARF LLC	70 LONG WHARF, BOSTON, MA 02110	115 BROADWAY 21ST FL, NY, NEW YORK, 10006
3	303006000	CAP LONG WHARF LLC	69 LONG WHARF, BOSTON, MA 02110	
4	303007000	CAP LONG WHARF LLC	68 LONG WHARF, BOSTON, MA 02110	
5	303008000	CAP LONG WHARF LLC	67 LONG WHARF, BOSTON, MA 02110	
6	303009000	CAP LONG WHARF LLC	66 LONG WHARF, BOSTON, MA 02110	
7	303010000	CAP LONG WHARF LLC	65 LONG WHARF, BOSTON, MA 02110	
8	303011000	CAP LONG WHARF LLC	64 LONG WHARF, BOSTON, MA 02110	
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18	302990000	NEW ENGLAND AQUARIUM	248 ATLANTIC AV, BOSTON, MA 02114	248 ATLANTIC AV, BOSTON, MA 02114



APPROX. PROPERTY LINE (MAGIS)

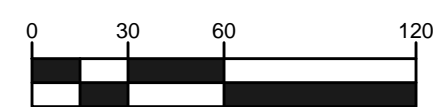
PID SEE TABLE (TYP.)



**100' ABUTTERS INFORMATION**

SCALE: 1" = 60'

GRAPHIC SCALE



(IN FEET)  
1 INCH = 60 FEET

PROJECT: LONG WHARF PIER  
SEAWALL STABILIZATION

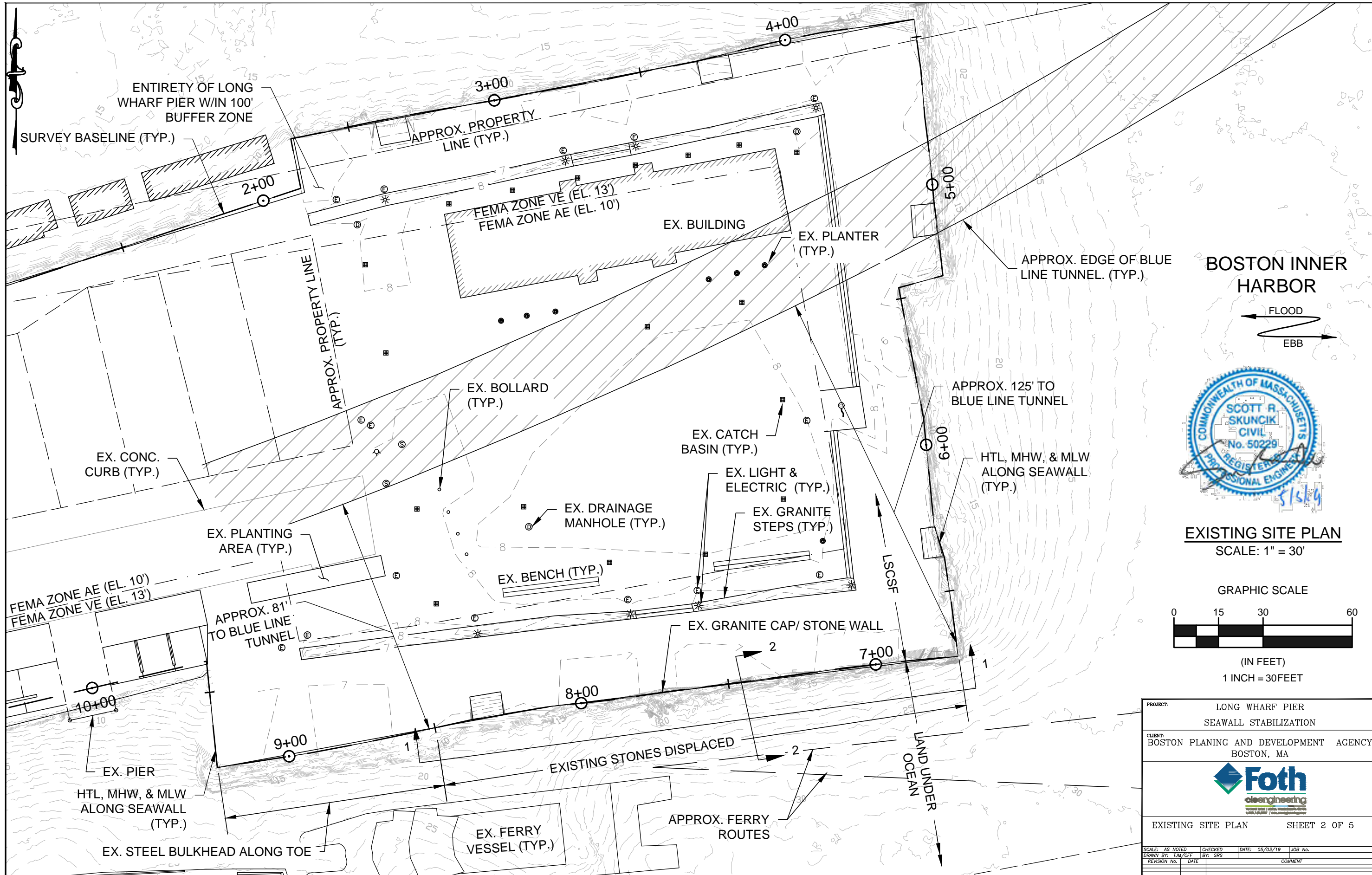
CLIENT: BOSTON PLANING AND DEVELOPMENT AGENCY  
BOSTON, MA



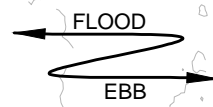
100' ABUTTERS LIST SHEET 1 OF 5

SCALE: AS NOTED	CHECKED: [ ]	DATE: 3/21/19	JOB No. [ ]
DRAWN BY: TJM/CFE	BY: SRS		
REVISION No. [ ]	DATE [ ]		COMMENT [ ]

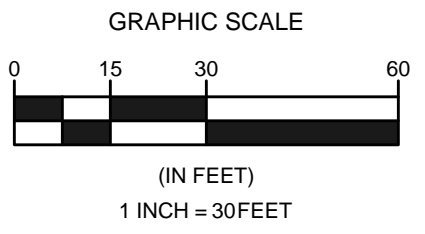




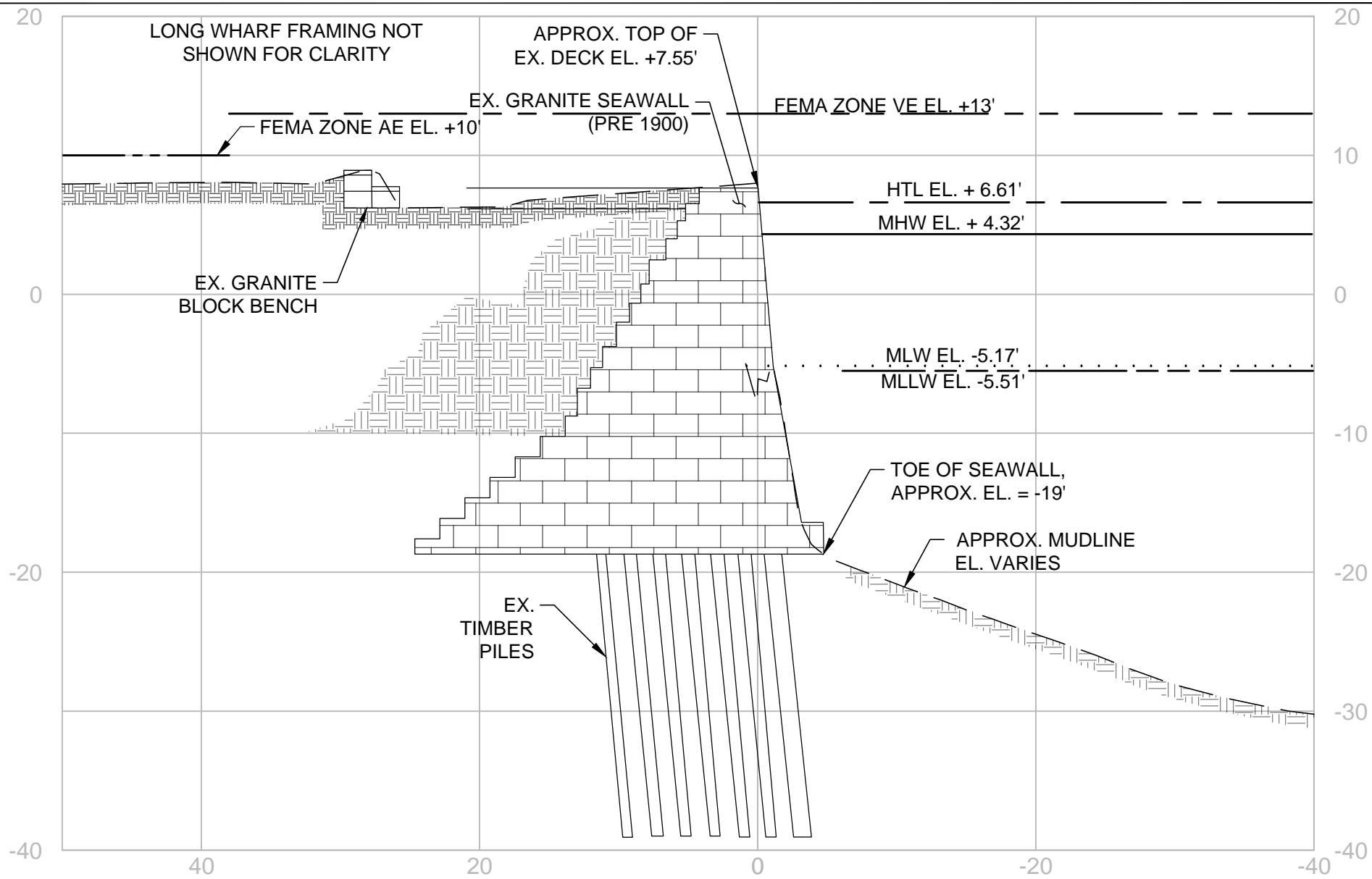
**BOSTON INNER HARBOR**



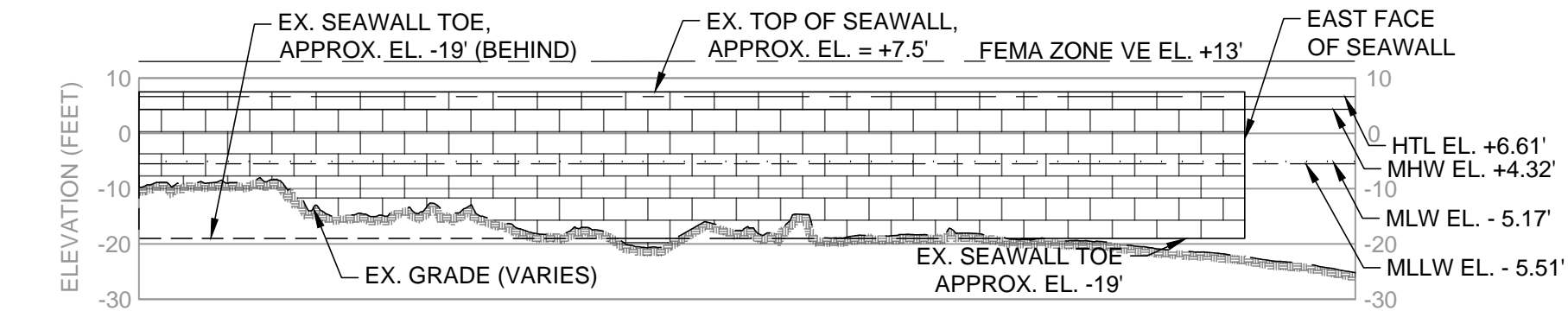
**EXISTING SITE PLAN**  
SCALE: 1" = 30'



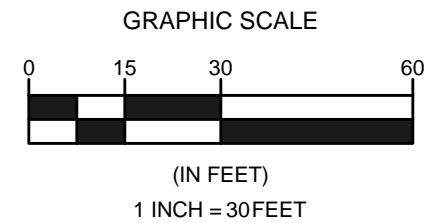
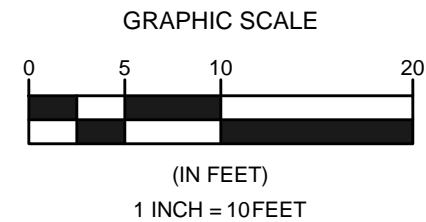
PROJECT:	LONG WHARF PIER SEAWALL STABILIZATION		
CLIENT:	BOSTON PLANING AND DEVELOPMENT AGENCY BOSTON, MA		
EXISTING SITE PLAN		SHEET 2 OF 5	
SCALE: AS NOTED	CHECKED: [initials]	DATE: 05/03/19	JOB No. [blank]
DRAWN BY: TJM/CFE	BY: SRS		
REVISION No. 1	DATE		COMMENT



**TYPICAL EXISTING SECTION 2-2**  
SCALE: 1" = 10'



**EXISTING SEAWALL PROFILE 1-1**  
SCALE: 1" = 30'



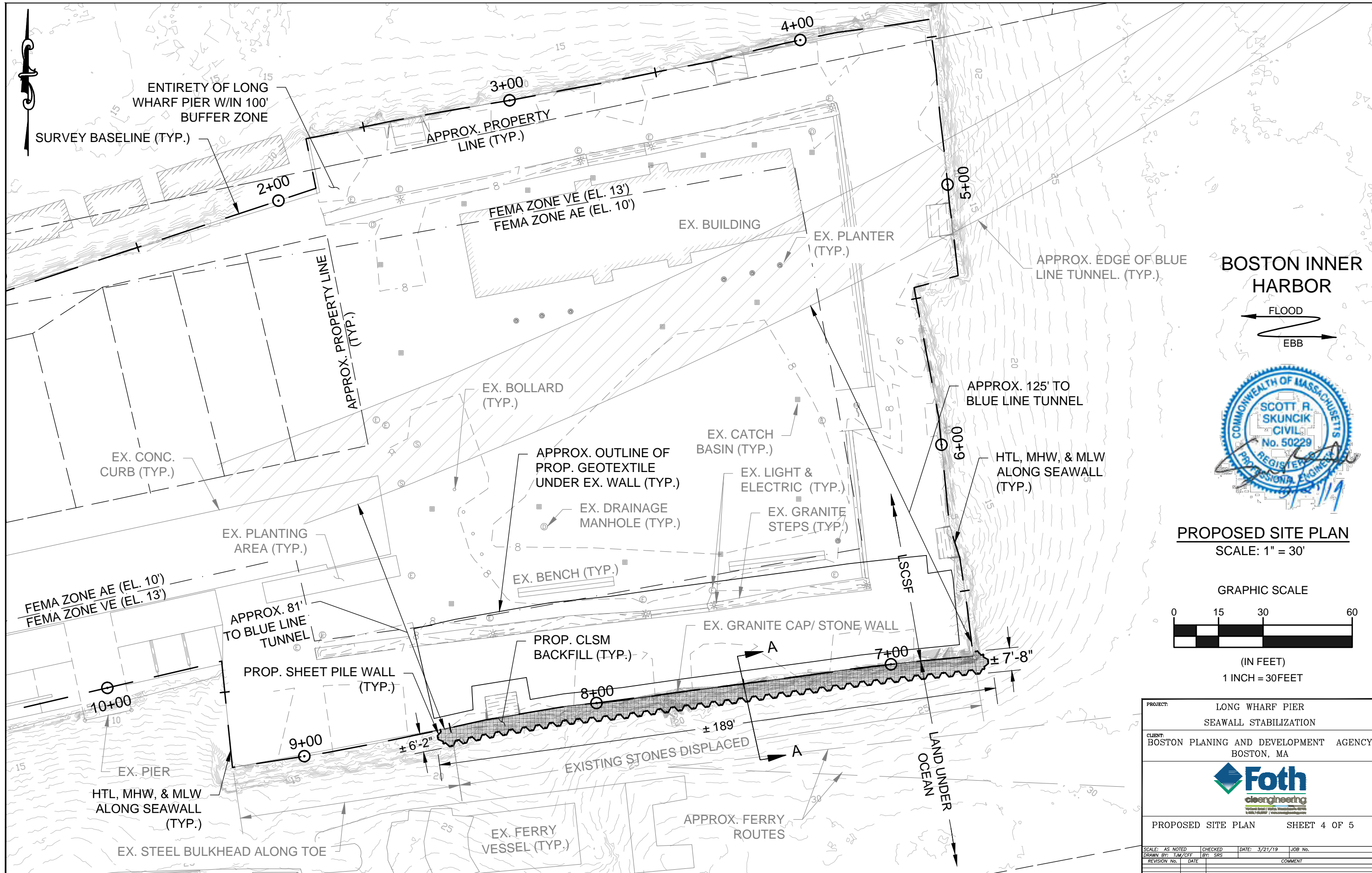
PROJECT: LONG WHARF PIER  
SEAWALL STABILIZATION  
CLIENT: BOSTON PLANING AND DEVELOPMENT AGENCY  
BOSTON, MA



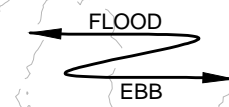
EXISTING SITE PLAN SHEET 3 OF 5

SCALE: AS NOTED	CHECKED	DATE: 05/03/19	JOB No.
DRAWN BY: TJM/CF	BY: SRS		
REVISION NO.	DATE	COMMENT	

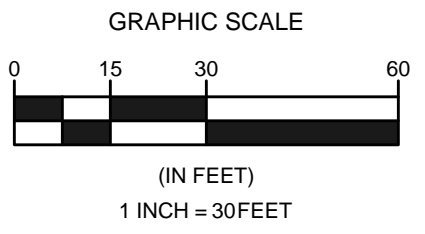




**BOSTON INNER HARBOR**



**PROPOSED SITE PLAN**  
SCALE: 1" = 30'

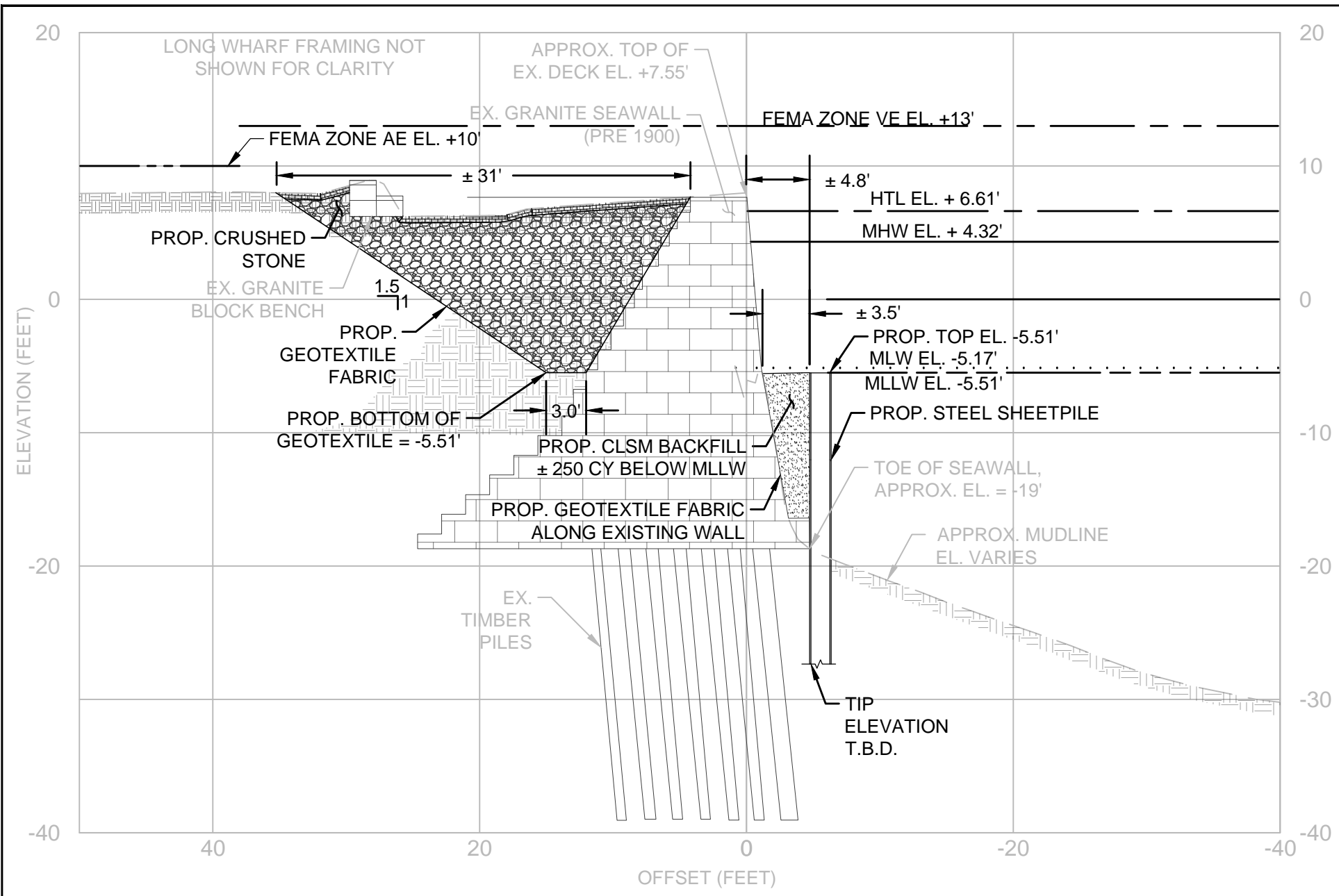


PROJECT: LONG WHARF PIER SEAWALL STABILIZATION  
 CLIENT: BOSTON PLANING AND DEVELOPMENT AGENCY BOSTON, MA



PROPOSED SITE PLAN SHEET 4 OF 5

SCALE: AS NOTED	CHECKED: [ ]	DATE: 3/21/19	JOB No. [ ]
DRAWN BY: TJM/CF	BY: SRS		
REVISION No. [ ]	DATE [ ]		COMMENT [ ]



**TYPICAL PROPOSED SECTION A-A**  
SCALE: 1" = 10'

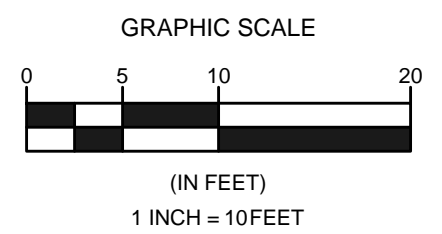
- NOTES:
1. THE TOPOGRAPHIC AND BATHYMETRIC DATA SHOWN ON THIS PLAN WAS GATHERED ON APRIL 4, 2018.
  2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO DEPTHS BELOW THE VERTICAL REFERENCE PLANE. THE VERTICAL REFERENCE PLANE FOR THIS PROJECT IS NAVD88 (GEOID 12A).
  3. SOUNDINGS SHOWN AS NEGATIVE ARE ABOVE THE REFERENCE PLANE.
  4. COORDINATES ARE BASED ON NAD 83 STATE PLANE MASSACHUSETTS MAINLAND COORDINATE GRID.
  5. CONTOURS ARE BASED ON THE 1'X1' AVERAGE VALUE DATA SET.
  6. BENCHMARK / RTK TIDES: TIDES ARE RECORDED USING RTK TIDES IN HYPACK. ELEVATIONS FROM ELLIPSOID TO ORTHOMETRIC NAVD88 USE GEOID 12A. THE OFFSET BETWEEN THE ORTHOMETRIC HEIGHT AND THE LOCAL TIDAL DATUM (NAVD88) (K) = -5.51"
  7. RTK CORRECTIONS FOR THIS SURVEY PROVIDED BY KEYNET - VRS.
  8. THE SOUNDING INFORMATION SHOWN ON THIS PLAN REPRESENTS THE 1.0' MINIMUM VALUE SORTED SOUNDINGS OBTAINED FROM HYDROGRAPHIC SURVEYS.
  9. ORTHO-IMAGERY AND SCALED DATA IS APPROXIMATE UNLESS OTHERWISE NOTED AND SHOULD BE USED AS A GENERAL REFERENCE ONLY.
  10. FEMA FLOOD PLAIN LINES, APPROXIMATE PROPERTY LINES, AND PROPERTY INFORMATION SHOWN PROVIDED VIA MOST RECENTLY AVAILABLE MAGIS DATA.
  11. LOCATION OF MBTA BLUE LINE TUNNEL AND VENTILATION SHAFT SHOWN ON PLANS IS APPROXIMATE.
  12. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. CONSULT WITH FOTH-CLE ENGINEERING GROUP FOR MORE DETAILED INFORMATION.
  13. POSSESSION AND USE OF THE MATERIAL CONTAINED ON THESE DRAWINGS IS GRANTED ONLY IN CONNECTION WITH ITS USE AS IT RELATES TO THE TITLED PROJECT, ANY OTHER USE, REPRODUCTION OR DISCLOSURE OF THE INFORMATION CONTAINED HEREON IS EXPRESSLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF FOTH-CLE ENGINEERING GROUP.
- © COPYRIGHT 2019, FOTH - CLE ENGINEERING GROUP ALL RIGHTS RESERVED

DATUM OFFSETS

MLW	NAVD88	
10.27	4.77	MHHW
9.83	4.32	MHW
5.51	0	NAVD88
0.34	-5.17	MLW
0.00	-5.51	MLLW

OFFSETS TAKEN FROM  
NOAA BOSTON STATION  
#8443970 (1983-2001)

- SURVEY NOTES:
1. PROJECT NAME: LONG WHARF CONDITIONS SURVEY
  2. PROJECT NUMBER: 0018B004.00
  3. PLOT SCALE: 1"=30'
  4. SURVEY DATE: APRIL 4, 2018
  5. SURVEYOR: M.CAMPAGNONE, J.BARANELO
  6. VESSEL: OSCAR
  7. TRANS./FATH.: 240KHZ, 150 DEGREE, RESON 7101  
RTK KEYNET CORRECTIONS
  8. WEATHER COND: OVERCAST, 40 DEGREES, WIND WEST 10-20, SEAS CALM
  9. PROJECT DATUM: NAVD88 AS NOTED IN DATUM CONVERSION CHART
  10. COOR. SYSTEM: NAD-83, MASSACHUSETTS MAINLAND
  11. DATA REDUCTION: DATA SORTED 10' MINIMUM
  12. BENCHMARK: OPUS SHARED SOLUTION AJ4040 "DISK IN WALL #844 3970 D TIDAL".  
SAME POINT AS DESCRIBED IN NOAA TIDAL STATION 8.29 NAVD88



PROJECT:	LONG WHARF PIER SEAWALL STABILIZATION		
CLIENT:	BOSTON PLANING AND DEVELOPMENT AGENCY BOSTON, MA		
PROPOSED SECTION,		SHEET 5 OF 5	
DETAILS, AND NOTES			
SCALE: AS NOTED	CHECKED:	DATE: 3/21/19	JOB No.
DRAWN BY: TJM/CFP	BY: SRS		
REVISION No.	DATE	COMMENT	



***Exhibit G***

***NOI Fee Transmittal Forms***



**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:

206 Atlantic Avenue Boston  
 a. Street Address b. City/Town  
 \_\_\_\_\_  
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Dolores Fazio  
 a. First Name b. Last Name  
Boston Planning and Development Agency  
 c. Organization  
22 Dry Dock Avenue  
 d. Mailing Address  
Boston MA 02210  
 e. City/Town f. State g. Zip Code  
617-918-6209 Dolores.fazio@boston.gov  
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

\_\_\_\_\_  
 a. First Name b. Last Name  
Same  
 c. Organization  
 \_\_\_\_\_  
 d. Mailing Address  
 \_\_\_\_\_  
 e. City/Town f. State g. Zip Code  
 \_\_\_\_\_  
 h. Phone Number i. Fax Number j. Email Address

**B. Fees**

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

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

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

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

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

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

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

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 4: Dock/Pier	205 LF Bulkhead		
Category 4: Dock/Pier	5,405 SF Geotextile		

**Step 5/Total Project Fee:** \_\_\_\_\_

**Step 6/Fee Payments:**

Total Project Fee: \_\_\_\_\_ Fee Exempt (City)  
 a. Total Fee from Step 5

State share of filing Fee: \_\_\_\_\_ b. 1/2 Total Fee **less** \$12.50

City/Town share of filing Fee: \_\_\_\_\_ 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.)

***Exhibit H***

***Proof of Mailings, DMF and DEP NE***

7018 1130 0001 4821 9079

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GLOUCESTER, MA 01930

Certified Mail Fee	\$3.50
Extra Services & Fees (check box, add fee to Certified Mail Fee)	\$2.80
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$2.05
<b>Total Postage and Fees</b>	<b>\$8.35</b>



Sent To \_\_\_\_\_  
 Street and Apt. No., or PO Box No. \_\_\_\_\_  
 City, State, ZIP+4® \_\_\_\_\_

PS Form 3800, April 2015 PSN 7530-02-000-0047 See Reverse for Instructions

7018 1130 0001 4821 9086

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BOSTON, MA 02108

Certified Mail Fee	\$3.50
Extra Services & Fees (check box, add fee to Certified Mail Fee)	\$2.80
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$2.05
<b>Total Postage and Fees</b>	<b>\$8.35</b>



Sent To \_\_\_\_\_  
 Street and Apt. No., or PO Box No. \_\_\_\_\_  
 City, State, ZIP+4® \_\_\_\_\_

PS Form 3800, April 2015 PSN 7530-02-000-0047 See Reverse for Instructions