

# Notice of Intent

Red Line Test Track - Yard 61 Area

Massachusetts Bay Transportation Authority

May 23, 2017

**Prepared for:**

Massachusetts Bay Transportation Authority  
100 Summer Street, 12th Floor  
Boston, MA 02110

**Prepared by:**

Melissa Ryan  
Planner

AECOM  
One Federal Street  
Boston  
MA, 02110  
USA  
aecom.com

Copyright © 2016 by AECOM

All rights reserved. No part of this copyrighted work may be reproduced, distributed, or transmitted in any form or by any means without the prior written permission of AECOM.



Charles D. Baker, Governor  
Karyn E. Polito, Lieutenant Governor  
Stephanie Pollack, MassDOT Secretary & CEO  
Brian Shortsleeve, Chief Administrator and Acting General Manager

**massDOT**  
Massachusetts Department of Transportation

May 23, 2017

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

Attn: Amelia Croteau

RE: Notice of Intent  
Red Line Test Track – Yard 61 Area  
Boston, MA

Dear Mr. Chairman and Commissioners:

The Massachusetts Bay Transportation Authority (MBTA) is filing a Notice of Intent (NOI) with the City of Boston Conservation Commission pursuant to the Massachusetts Wetland Protection Act (MGL Chapter 131, Section 40) and its implementing regulations (310 CMR 10.00) for the proposed Red Line Test Track Project (the "Project") in South Boston, Massachusetts.

As part of the MBTA's Red Line and Orange Line Infrastructure Improvements Program and to support the 2019 delivery of new Red Line replacement vehicles, the MBTA requires a new Red Line Test Track to perform static and dynamic vehicle acceptance testing. The Test Track begins at the Cabot Carhouse, connects to Industrial Track #3 in Neponset Yard, and extends northeast along the Seaport Track towards the Boston Convention and Exhibition Center to Yard 61 at Cypher Street in South Boston.

In addition to the track and utility modifications, the Project consists of the construction of a pre-engineered temporary shed to serve as the new Red Line Vehicle Testing Facility (VTF). The VTF will be a corrugated metal sided one-story structure 20 feet in height housing approximately 5,000 square feet of space. The VTF will house one through-building track in which heavy rail train cars (one married pair) will be brought in for testing and diagnostic analysis. The VTF includes a 5 foot deep linear inspection / service pit extending the length of the

train cars set below an elevated track, and a work area equipped with a portable welding machine and compressor. Tools and equipment for testing and analytical operations for the new trains will be stored within the VTF. Restroom facilities and employee showers are also provided to support the on-site staff.

Wetland resource area(s) in the vicinity of the Project include Land Subject to Coastal Storm Flowage as defined at 310 CMR 10.04 of the WPA Regulations. There are no performance standards for which work within Land Subject to Coastal Storm Flowage is to be measured.

Through its enabling legislation, the MBTA is not subject to the local City of Boston by-laws, ordinances or regulations. Work proposed within Land Subject to Coastal Storm Flowage is designed to minimize impacts to the resource area to the greatest extent practicable.

According to the Natural Heritage and Endangered Species data available through MassGIS, the Project is not located within Estimated or Priority Habitat. Therefore, the Project is not subject to the MESA/WPA review.

Should you have any questions concerning this application, or require additional information, please contact me at [hpalmgren@mbta.com](mailto:hpalmgren@mbta.com) or 617-222-1580.

Sincerely,

A handwritten signature in black ink that reads "Holly Palmgren". The signature is fluid and cursive, with the first name "Holly" and last name "Palmgren" clearly distinguishable.

Holly Palmgren  
Manager of Environmental Construction

## Table of Contents

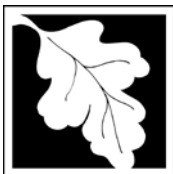
1.	Notice of Intent Forms.....	6
1.1	WPA Form 3 .....	6
1.2	List of Property Owners .....	16
1.3	NOI Wetland Fee Transmittal Form .....	17
2.	Project Narrative .....	20
2.1	Introduction.....	20
2.2	Site Description .....	20
2.3	Resource Area.....	21
2.4	Proposed Work.....	21
2.5	Mitigation Measures.....	21
2.6	Regulatory Compliance .....	23
2.7	Summary .....	23
	Appendix A.....	30
A.1	Site Photographs .....	30
	Appendix B.....	33
B.1	Notice of Intent Plans.....	33

## Figures

Figure 1.	Locus Map .....	24
Figure 2.	USGS Map.....	26
Figure 3.	FEMA FIRM .....	28

# **1. Notice of Intent Forms**

## **1.1 WPA Form 3**



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):

160 B Street

a. Street Address

Boston

b. City/Town

02127

c. Zip Code

Latitude and Longitude:

6004 and 6026

f. Assessors Map/Plat Number

d. Latitude

e. Longitude

0602769007, 0602769200, 0602769100,  
0602771100

2. Applicant:

Holly

a. First Name

Palmgren

b. Last Name

Massachusetts Bay Transportation Authority (MBTA)

c. Organization

100 Summer Street, 12th Floor

d. Street Address

Boston

e. City/Town

MA

f. State

02110

g. Zip Code

617-222-1580

h. Phone Number

i. Fax Number

hpalmgren@mbta.com

j. Email Address

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

David

a. First Name

Pogorelc

b. Last Name

Smiley First, LLC (for other property owners see attached listing)

c. Organization

699 Boylston Street, 10th Floor

d. Street Address

Boston

e. City/Town

MA

f. State

02116

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

a. First Name

b. Last Name

c. Company

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

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

Exempt

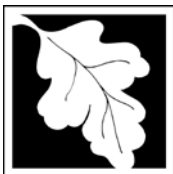
a. Total Fee Paid

Exempt

b. State Fee Paid

Exempt (\$1,237.50)

c. City/Town Fee Paid



## 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

### A. General Information (continued)

6. General Project Description:

Construction of a MBTA vehicle test facility (shed) and associated track and utility modifications.

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 checked="" type="checkbox"/> Commercial/Industrial          | 4. <input type="checkbox"/> Dock/Pier                     |
| 5. <input type="checkbox"/> Utilities                                 | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input checked="" 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 CMR 10.24(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

see list of property owners

c. Book

b. Certificate # (if registered land)

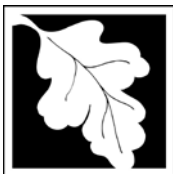
see list of property owners

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).

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

# 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

## 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:

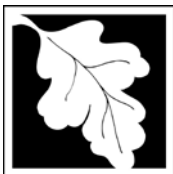
a. total square feet \_\_\_\_\_ b. square feet within 100 ft. \_\_\_\_\_ c. square feet between 100 ft. and 200 ft. \_\_\_\_\_

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.



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

### 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
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet 2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above 1. cubic yards dredged	
l. <input checked="" type="checkbox"/> Land Subject to Coastal Storm Flowage	56,711 (proposed alteration) 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



## 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

### C. Other Applicable Standards and Requirements

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

#### Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

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

10-1-2008

- b. Date of map

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

- c. Submit Supplemental Information for Endangered Species Review\*

1. ☐ Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

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

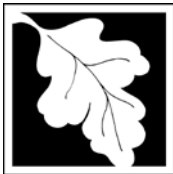
2. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work\*\*

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

(b) ☐ Photographs representative of the site

\* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <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  
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

### 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](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](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:

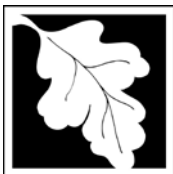
South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

Division of Marine Fisheries -  
Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
1213 Purchase Street – 3rd Floor  
New Bedford, MA 02740-6694  
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.



## 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

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

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

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. ☐ Yes ☒ No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. ☐ Yes ☒ No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. ☐ Yes ☒ No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. ☐ Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
  2. ☐ A portion of the site constitutes redevelopment
  3. ☐ Proprietary BMPs are included in the Stormwater Management System.
- b. ☒ No. Check why the project is exempt: Project consists of redevelopment of existing site and there is no direct discharge to a resource area (discharge to MassDOT stormwater system).
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.

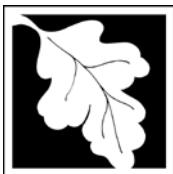
### D. Additional Information

- ☐ 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.



**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

**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.

NOI Submission - Yard 61 Area

a. Plan Title

AECOM

b. Prepared By

05-18-17

d. Final Revision Date

c. Signed and Stamped by

1"=40' and 1"=20'

e. Scale

f. Additional Plan or Document Title

g. Date

5. ☒ If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. ☒ Attach NOI Wetland Fee Transmittal Form
9. ☐ Attach Stormwater Report, if needed.

**E. Fees**

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

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

14451846

2. Municipal Check Number

N/A

4. State Check Number

AECOM

6. Payor name on check: First Name

5-15-17

3. Check date

N/A

5. Check date

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

## WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

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.

Holly Palmgren  
1. Signature of Applicant

5/23/17  
2. Date

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

6. Date

#### For Conservation Commission:

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

#### For MassDEP:

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

#### 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.

## 1.2 List of Property Owners

1. Massachusetts Department of Transportation  
Ten Park Plaza  
Boston, MA 02116  
Book 46515, Page 1
2. Smiley First, LLC  
David Pogorelc  
699 Boylston Street  
10<sup>th</sup> Floor  
Boston, MA 02116  
Book 54798, Page 1
3. B & W Second LLC  
Katerina Contos  
15 Scotch Pine Circle  
Wellesley, MA 02481  
Book 55889, Page 45

## 1.3 NOI Wetland Fee Transmittal Form



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:

160 B Street	Boston
a. Street Address	b. City/Town
14451846	\$1,237.50
c. Check number	d. Fee amount

### 2. Applicant Mailing Address:

Holly	Palmgren	
a. First Name	b. Last Name	
MBTA		
c. Organization		
100 Summer Street, 12th Floor		
d. Mailing Address		
Boston	MA	02110
e. City/Town	f. State	g. Zip Code
617-222-1580	hpalmgren@mbta.com	
h. Phone Number	i. Fax Number	j. Email Address

### 3. Property Owner (if different):

See list of Property Owners		
a. First Name	b. Last Name	
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 3b.	1	\$1,050.00	\$1,050.00
Category 4e.	1	\$1,450.00	\$1,450.00
Step 5/Total Project Fee:			Exempt

**Step 6/Fee Payments:**

Total Project Fee:	Exempt
	a. Total Fee from Step 5
State share of filing Fee:	Exempt
	b. 1/2 Total Fee <b>less</b> \$12.50
City/Town share of filing Fee:	Exempt (\$1,237.50)
	c. 1/2 Total Fee <b>plus</b> \$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.)

## 2. Project Narrative

### 2.1 Introduction

The Massachusetts Bay Transportation Authority (MBTA) is filing this Notice of Intent (NOI) pursuant to the Massachusetts Wetland Protection Act (MGL Chapter 131, Section 40) and its implementing regulations (310 CMR 10.00) for the proposed Red Line Test Track Project (the "Project") in South Boston, Massachusetts.

As part of the MBTA's Red Line and Orange Line Infrastructure Improvements Program, and to support the 2019 delivery of new Red Line replacement vehicles, the MBTA requires a new Red Line Test Track to perform static and dynamic vehicle acceptance testing. The Test Track begins at the Cabot Carhouse, connects to Industrial Track #3 in Neponset Yard, and extends northeast along the Seaport Track towards the Boston Convention and Exhibition Center to Yard 61 at Cypher Street in South Boston. See Figure 1 – Locus Map for project location.

To access the Seaport Track, the MBTA will add a new track along the existing berm connecting Cabot Carhouse to the existing Industrial Track #3, electrifying a portion to accommodate a "married-pair" train reversing movement. The MBTA will modify the existing Seaport Track by improving the alignment, replacing the existing rail and electrifying the entire length from Cabot Carhouse to Cypher Street.

The upgraded track is located on MBTA / Massachusetts Department of Transportation (MassDOT) owned property or easement areas. The Vehicle Testing Facility (VTF) will be located on a parcel at the intersection of B Street and Cypher Street in South Boston.

The Project consists of the construction of a pre-engineered temporary shed to serve as the new Red Line VTF. The VTF will be a corrugated metal sided one-story structure 20 feet in height housing approximately 5,000 square feet of space. The VTF will house one through-building track in which heavy rail train cars (one married pair) will be brought in for testing and diagnostic analysis. The VTF includes a 5 foot deep linear inspection / service pit extending the length of the train cars set below an elevated track, and a work area equipped with a portable welding machine and compressor. Tools and equipment for testing and analytical operations for the new trains will be stored on pallet racks within the VTF. Restroom facilities and employee showers are also provided to support the on-site staff.

The Project maintains existing pervious area by using ballasted track and crushed stone. During the design of the Project, the existing drainage system was dye tested and found to be functional. Drainage improvements include the installation of deep sump hooded catch basins with water quality inserts along the rail right-of-way and at the VTF.

### 2.2 Site Description

The Project site is located within a commercial and industrial area of South Boston and extends from Dorchester Avenue at the MBTA's existing Cabot Yard to Cypher Street. The Project corridor is approximately 5,185 feet long and follows the existing track from Cabot Yard south of the South Boston Bypass Road and travels northeast under each cross street from West Fifth Street until B Street and terminates at the property with frontage on Cypher Street. This property is generally known as "Yard 61" and is privately owned, however a portion of the property is encumbered by a railroad easement held by the MBTA through MassDOT.

The VTF will be located on this property, within the limits of the railroad easement and accessed via a crushed stone access lane at the B Street and West First Street intersection. Yard 61 is generally unimproved with areas of grass and pavement in addition to the three sets of tracks. Topography at the Project site varies slightly. For example, starting at where the VTF is located, topography slopes from approximately elevation 8.5' to elevation 4' NAVD at the southwestern point. According to MassGIS data layers, the site is not located within Estimated or Priority Habitat as defined by the Natural Heritage Endangered Species Program.

The soil was tested as part of the soil sampling program during the Project's design and can be classified as urban fill. Results of the soil sampling confirmed levels of impacted soil in exceedance of the Massachusetts Contingency Plan (MCP) standards for semi-volatiles, organic compounds and lead. The contaminated soil is consistent with

historic railroad operations and as such, storm water infiltration on the Project site is not recommended. Soils will be reused on site to the extent practicable or disposed of off-site in compliance with the MCP.

## 2.3 Resource Area

Wetland resource areas were screened for using MassGIS data layers and the screening did not identify any wetland resource areas located in or adjacent to the Project. However, closer review of the Federal Emergency Management Agency (FEMA) data layer for the 100-year flood confirmed that the floodplain had been revised to elevation 10' NAVD from elevation 9' NAVD in 2016.

According to the Wetland Protection Act (WPA) Regulations, the wetland resource area present is defined as follows:

- ❖ *Land Subject to Coastal Storm Flowage:* Defined at 310 CMR10.04 as 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.

According to the FEMA Flood Insurance Rate Map (FIRM) of March 16, 2016 for South Boston (Map No. 25025C0083J), Zone AE which corresponds to the 1-percent annual chance flood/100-year floodplain contains the proposed location of the VTF. More specifically, Zone AE encompasses the Project from the northwest corner of Yard 61 and south along the South Boston Bypass Road to West Broadway as shown on Figure 3 – FEMA FIRM. The corresponding elevation in Zone AE is elevation 10' NAVD.

Land Subject to Coastal Storm Flowage is also defined in 310 CMR 10.02 as an area subject to protection under the WPA and work proposed within this area requires a NOI to ensure that the proposed development is located, designed and constructed in a manner that protects the coastal resource under the WPA's jurisdiction. However, the WPA Regulations do not provide any performance standards for which work within Land Subject to Coastal Storm Flowage is to be measured.

## 2.4 Proposed Work

The proposed work within the Land Subject to Coastal Storm Flowage resource area is the construction of the VTF and associated rail and utility modifications. The major work activities are outlined below:

- ❖ Install gravel entrance to VTF site;
- ❖ Excavate for VTF utilities and foundation;
- ❖ Backfill for VTF utilities and foundation;
- ❖ Pour concrete for VTF footings and foundation;
- ❖ Lay waterproofing membrane and subgrade utilities (sewer, water, gas, drainage);
- ❖ Backfill for VTF slab-on-grade;
- ❖ Pour VTF slab-on-grade;
- ❖ Install new 115 lbs rail inside VTF area and along tracks;
- ❖ Place concrete infill around new tracks inside VTF;
- ❖ Set VTF in place and add siding and roof;
- ❖ Install utilities (electrical, FA, FP, CCTV, lighting) inside VTF;
- ❖ Install stringer system and DC power in VTF;
- ❖ Install mobile traction power substation, transformer and switchgear;
- ❖ Lay crushed stone for parking area; and
- ❖ Set up security fence around VTF.

## 2.5 Mitigation Measures

The MBTA has prepared the Project design to avoid and minimize impacts in the floodplain from a 100-year storm event where possible. The design includes elevating electrical elements that are key components to the function of the VTF. Inside the VTF, the electrical room floor has been raised to elevation 11' NAVD and outside the VTF, the foundations on which the transformer and switch gear sit and the mobile traction power substation have also all been

raised to at or above elevation 11' NAVD. This elevation includes the required 1' of freeboard. The VTF and service pit foundations and footings have been designed to resist buoyancy (uplift) during a 100-year storm event.

An erosion and sedimentation control program will be implemented to minimize temporary impacts to resource areas during the construction phase of the Project. The program incorporates Best Management Practices (BMPs) specified in guidelines developed by DEP and the U.S. Environmental Protection Agency (EPA).

Proper implementation of the erosion and sedimentation control program will:

- ❖ Minimize exposed soil areas through sequencing and temporary stabilization;
- ❖ Place structures to manage storm water runoff and erosion; and
- ❖ Establish a permanent form of stabilization as soon as practicable.

The following sections describe the controls that will be used and practices that will be followed during construction.

#### Non-Structural Practices

Non-structural practices that will be used during construction include temporary stabilization and dust control. These practices will be initiated as soon as practicable in appropriate areas throughout the site.

##### *Temporary Stabilization*

Any areas of exposed soil or stockpiles that will remain inactive for more than fourteen (14) days will be covered with a layer of straw mulch applied at a rate of 90 pounds per 1,000 square feet. The mulch will be anchored with a tacking coat (non-tar) applied by a hydroseeder. Steeper slopes (greater than ten (10) percent) will be covered with a bonded fiber matrix.

##### *Dust Control*

The erosion and sediment control program includes provisions to minimize the generation of dust during dry and windy conditions. When necessary, larger areas of exposed soil will be wetted to prevent wind-borne transport of fine grained sediment. Enough water shall be applied to wet the upper 0.5 inches of soil. The water will be applied as a fine spray in order to prevent erosion.

#### Structural Practices

Structural erosion and sedimentation controls to be used on the site include erosion control barriers.

##### *Erosion Control Barriers*

Prior to ground disturbance, an approved erosion control barrier will be installed at the downgradient limit of work. As construction progresses, additional barriers will be installed around the base of stockpiles and other erosion prone areas. The barriers will be entrenched into the substrate to prevent underflow.

If sediment has accumulated to a depth which impairs proper functioning of the barrier, it will be removed by hand or by machinery operating upslope of the barriers. This material will be either reused at the site or disposed of at a suitable offsite location. Any damaged sections of the barrier will be repaired or replaced immediately upon discovery.

The existing tracks and Yard 61 are at a low elevation at this area of South Boston and therefore storm water is pumped by MassDOT as part of the South Boston Bypass roadway storm water system. Storm water from the VTF site will be captured by deep sump hooded catch basins with water quality inserts before overflow is allowed to enter the track bed area of the test tracks. An additional deep sump catch basin with a water quality insert will be placed adjacent to the VTF to replace the existing area drain that handles flows from adjacent properties along Cypher Street. Surplus storm water will overtop the crushed stone area for pretreatment by the track ballast stone before being collected by the proposed track underdrain system. With the upgrades to the storm water system at Yard 61 and the rail tracks, improved storm water will flow directly into MassDOT's pump station.

Storm water storage volume will be maintained and improved along the corridor as part of the track work. New ballast stone will be used to construct the 3,300 feet of test track (12' wide). With a void ratio of 40% and a depth of 8", this area of stone will provide a storage volume of almost 8,000 cubic feet for the pretreatment of storm water.

Because there is an existing rail line in the location of the proposed test track, it is anticipated that there will be no change to the contributing watershed area of the rail corridor to the existing drainage collection system. As such, the pump station should perform as designed when the test track is completed and used post construction. Since the MBTA Red Line Test Track will not change the tributary drainage area to the pump station, no change of capacity is expected and no hydraulic evaluation of the site was recommended or performed.

## 2.6 Regulatory Compliance

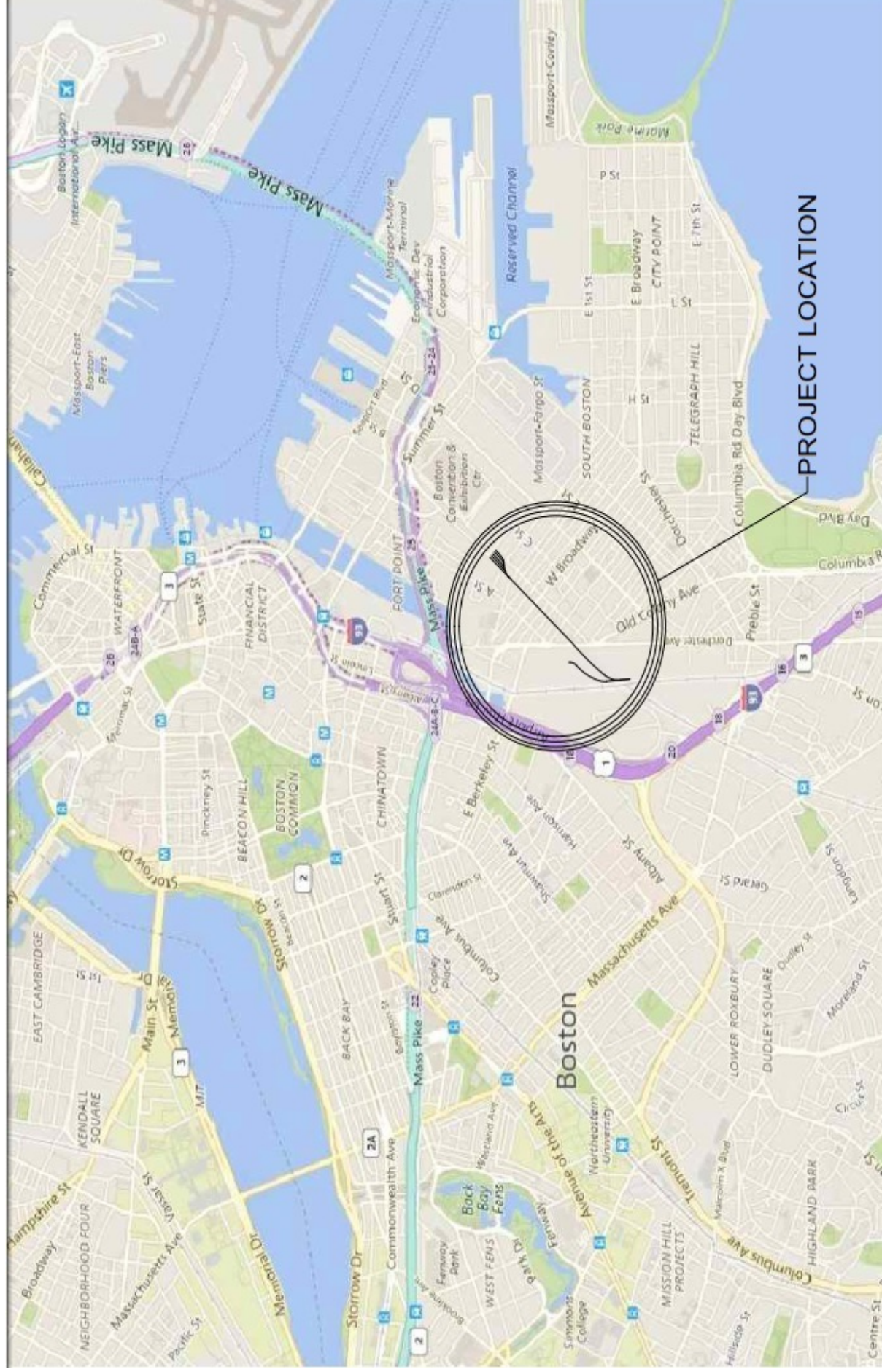
In the instance of the Land Subject to Coastal Storm Flowage resource area, the WPA Regulations do not provide performance standards for which to measure work within the floodplain, nor do the WPA Regulations require the Project to provide compensatory storage for the ocean. Therefore, the Project is designed to minimize impacts to Land Subject to Coastal Storm Flowage by elevating certain elements above the floodplain elevation and implementing an erosion and sedimentation control program as discussed above.

## 2.7 Summary

The Project consists of the construction of a VTF and associated track and utility modifications. A portion of the Project is located within Land Subject to Coastal Storm Flowage with no performance standards for work within this resource area. The work proposed in this area is necessary to support the 2019 delivery of new Red Line replacement vehicles. The Project is designed to minimize impacts to Land Subject to Coastal Storm Flowage by elevating certain elements above the floodplain elevation and implementing an erosion and sedimentation control program and storm water management according to best management practices.

The MBTA respectfully requests that the Boston Conservation Commission find these measures adequately protective of the interests identified in the WPA and issue an Order of Conditions approving the work described in this NOI and shown on the accompanying plans.

## Figure 1. Locus Map



**FIGURE 1 – PROJECT LOCATION**  
**RED LINE TEST TRACK**  
**MAY 2017**

**AECOM**

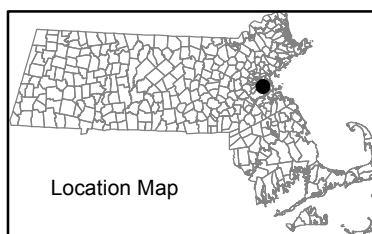
**Massachusetts Bay  
 Transportation Authority**



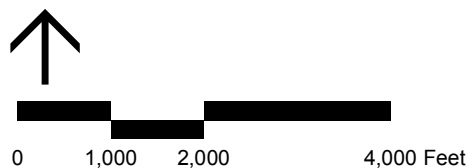
## Figure 2. USGS Map



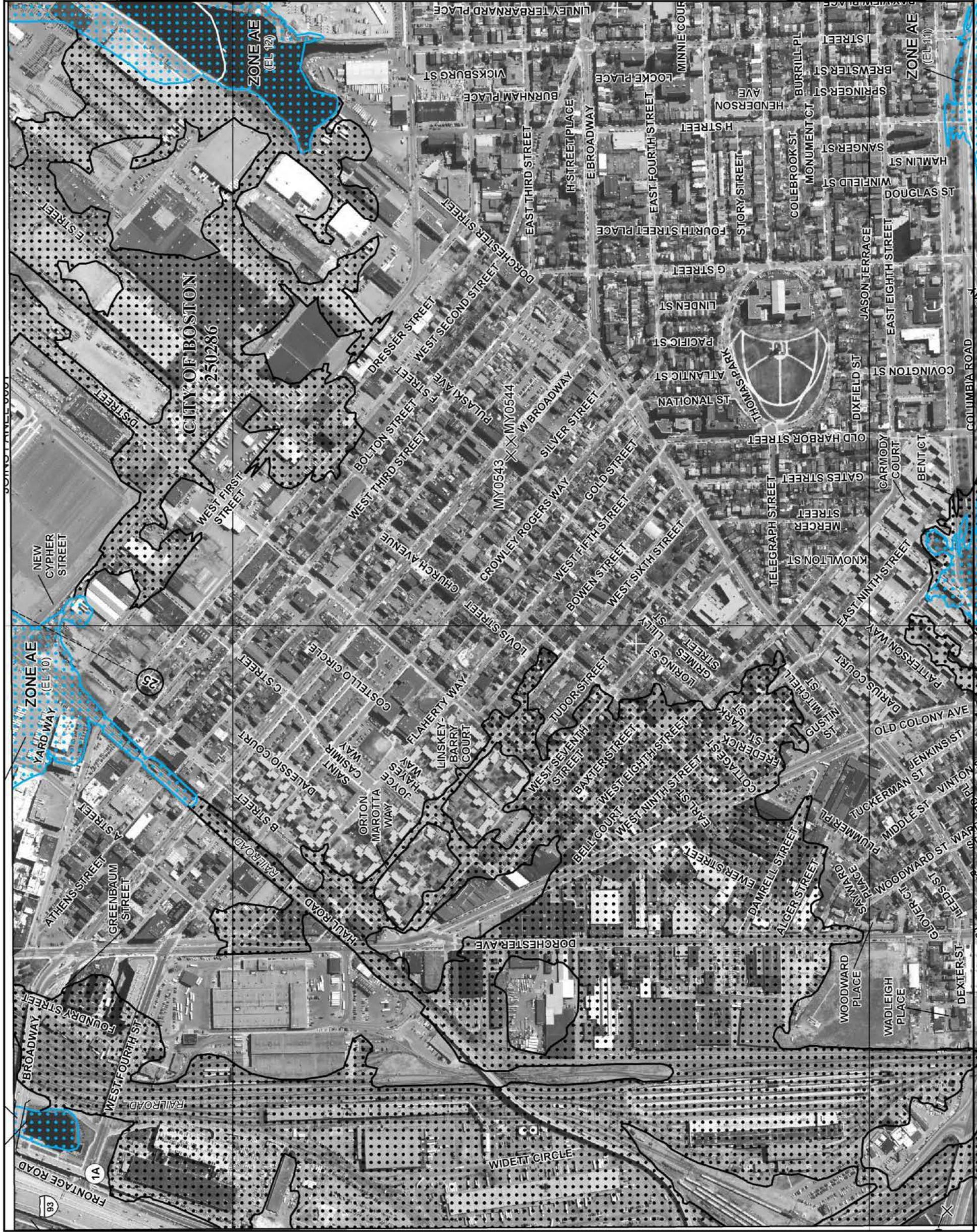
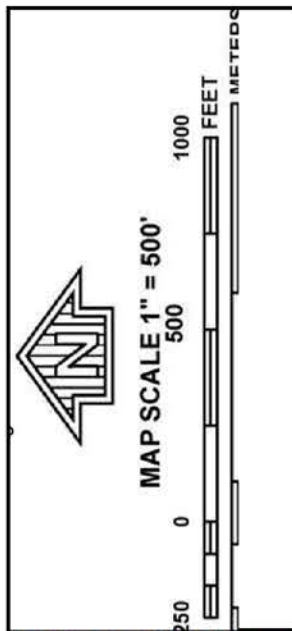
Portion of Boston South USGS Quadrangle  
Data supplied by esri.



USGS Map  
Figure 2



### Figure 3. FEMA FIRM



This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

## Appendix A

### A.1 Site Photographs

Red Line Test Track, South Boston, MA  
Photograph Log

<b>Photo No.</b> 1	<b>Date</b> October 2016	
<b>Direction Photo Taken:</b>  South		
<b>Description:</b>  Yard 61 at Cypher Street & South Boston Bypass Road		

*Images courtesy of Google*

<b>Photo No.</b> 2	<b>Date</b> October 2016
<b>Direction Photo Taken:</b>  South	
<b>Description:</b>  Yard 61 tracks at Cypher Street	



Images courtesy of Google

Red Line Test Track, South Boston, MA  
Photograph Log

<b>Photo No.</b> 3	<b>Date</b> June 2016	
<b>Direction Photo Taken:</b>  East		
<b>Description:</b>  Yard 61 tracks along South Boston Bypass Road  <i>Images courtesy of Google</i>		

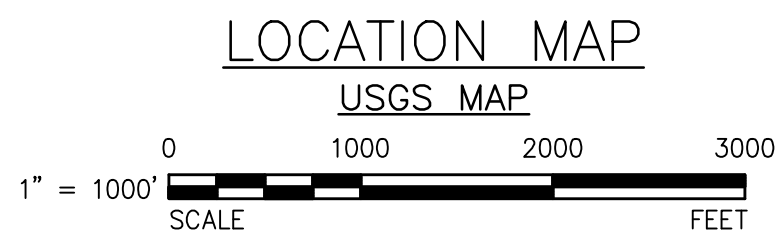
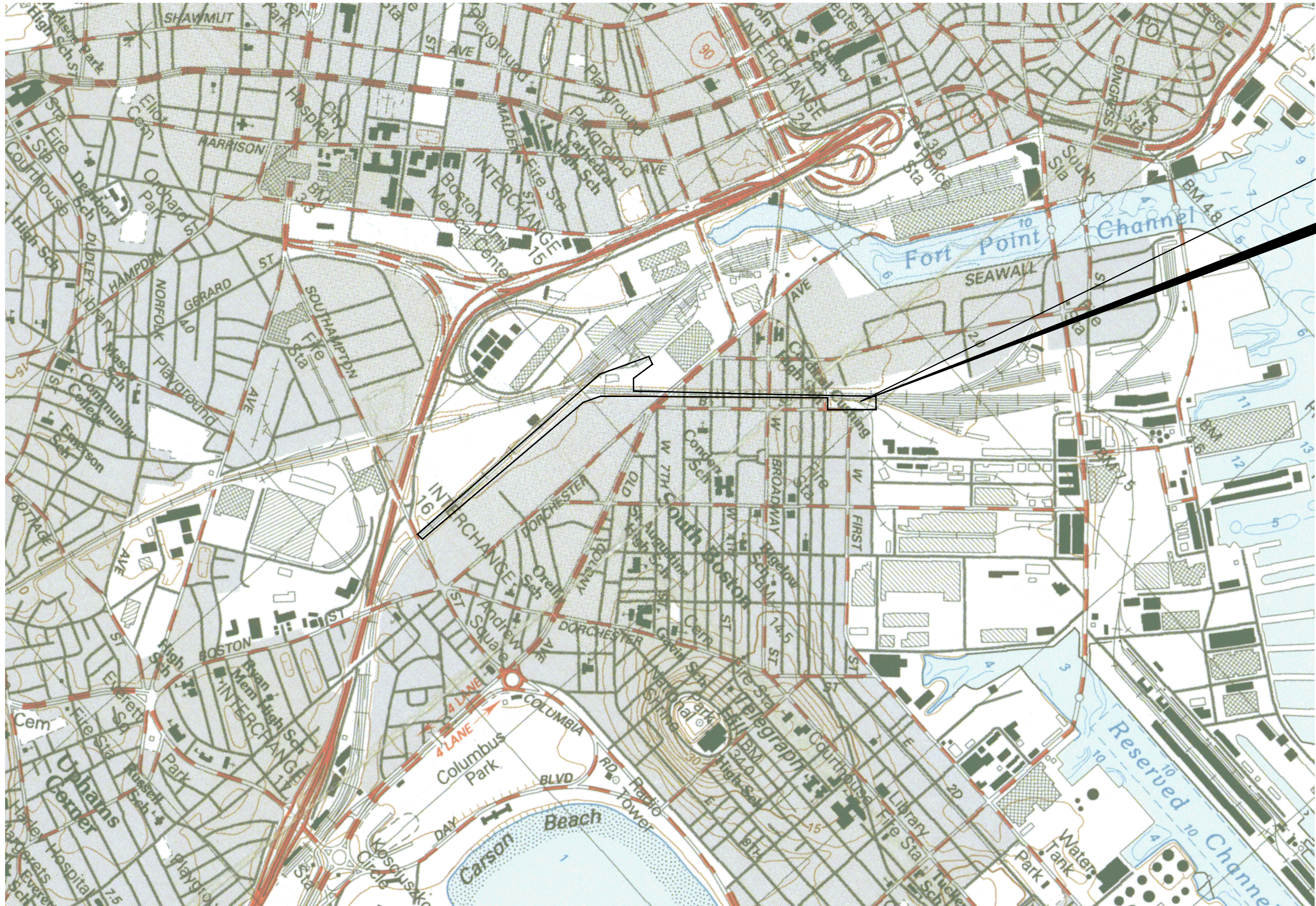
Photo No. 4	Date June 2016	
Direction Photo Taken:		
North		
Description:  Tracks heading north from West Broadway  <i>Images courtesy of Google</i>		

## Appendix B

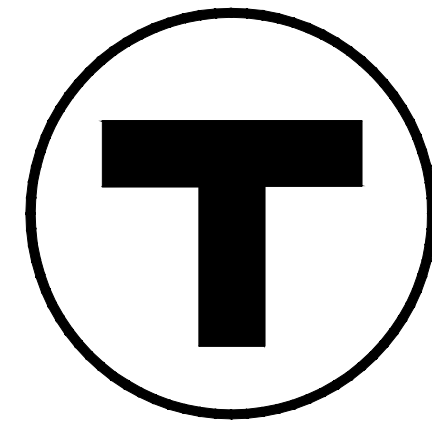
### B.1 Notice of Intent Plans

PLOTTED: 05/23/17 4:14PM BY:NAPOLITANOS  
DRAWING: P:\WORK\60512784\900\_WORK\910\_CAD\20\_SHEETS\NOI\60512784\_G\_(COVER SHEET)-NOI.DWG [SH-1] 05/18/17 6:51AM

PREPARED BY: **AECOM**  
1 FEDERAL STREET  
BOSTON, MASSACHUSETTS 02110



PROJECT  
LOCATION



## THE RED LINE AND ORANGE LINE INFRASTRUCTURE IMPROVEMENTS BOSTON, MA

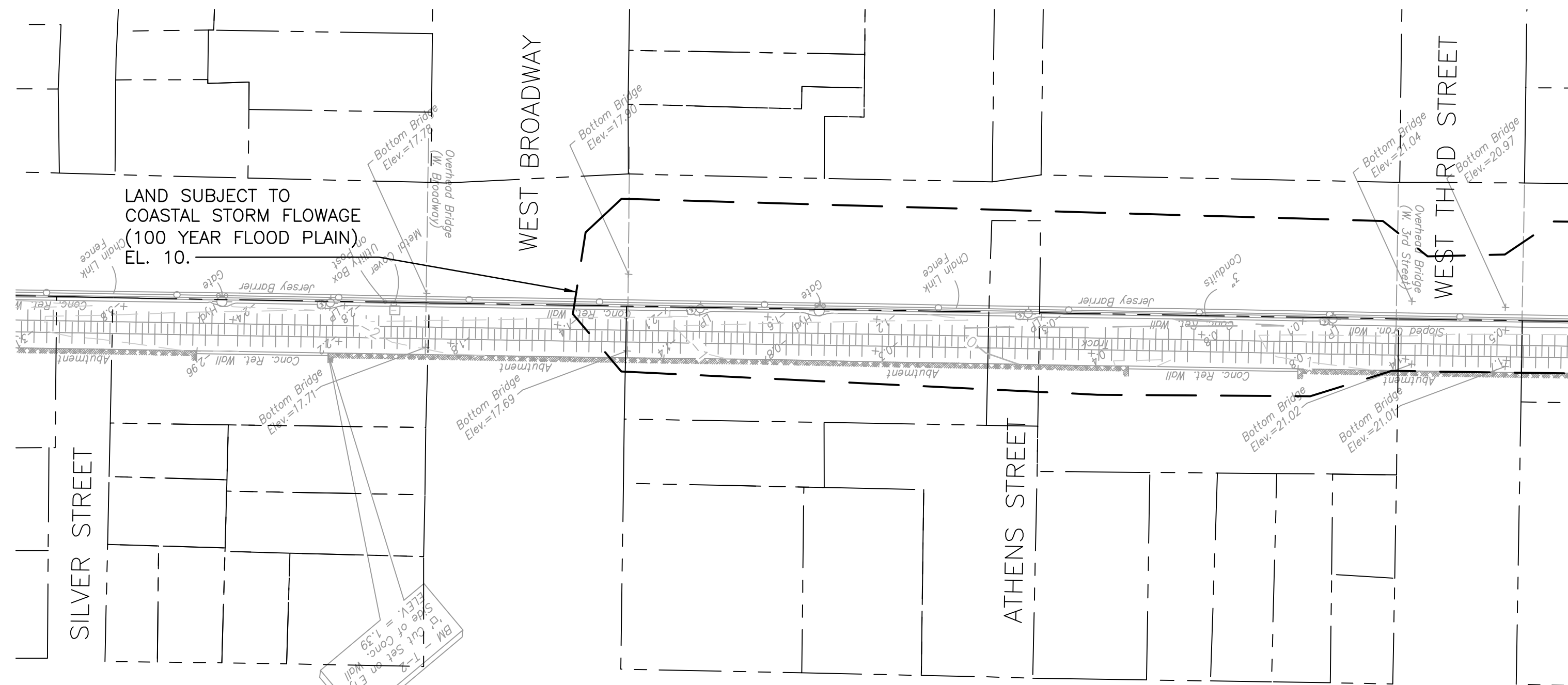
THE RED LINE TEST TRACK - CONTRACT NUMBER R44CN01

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

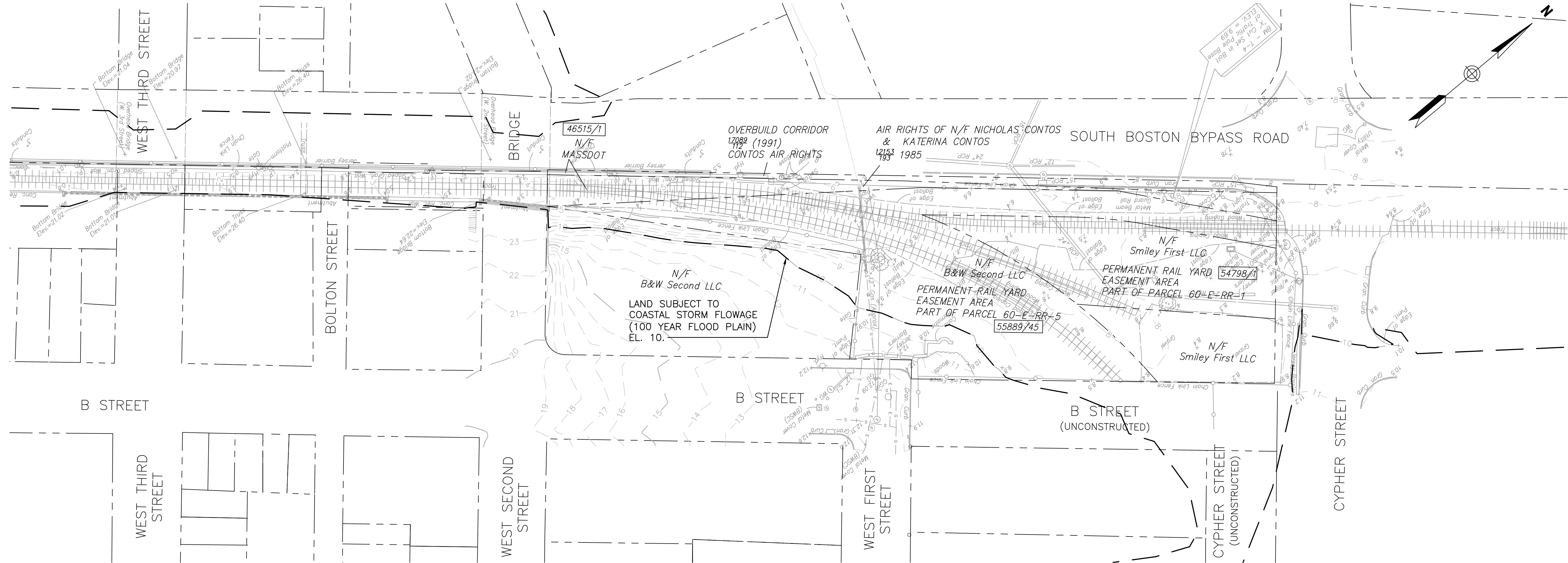
NOI SUBMISSION - YARD 61 AREA  
MAY 18, 2017

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	VICINITY MAP AND INDEX OF SHEETS
2	EXISTING SITE CONDITIONS
3	PROPOSED SITE CONDITIONS
4	PROPOSED GRADING PLAN WEST BROADWAY TO WEST SECOND STREET
5	PROPOSED GRADING PLAN YARD 61
6	CROSS SECTIONS
7	IMPACT AREA PLAN
8	EROSION AND SEDIMENTATION CONTROL PLAN
9	EROSION CONTROL DETAILS

PLOTTED: 05/23/17 4:14PM BY:NAPOLITANOS  
DRAWING: P:\WORK\60512784\900\_WORK\910\_CAD\90\_SHEETS\NOI\60512784\_E\_(EXIST PLAN)\NOI.DWG [E-1] 05/19/17 11:44AM



FOR CONTINUATION, SEE PLAN BELOW



#### NOTES:

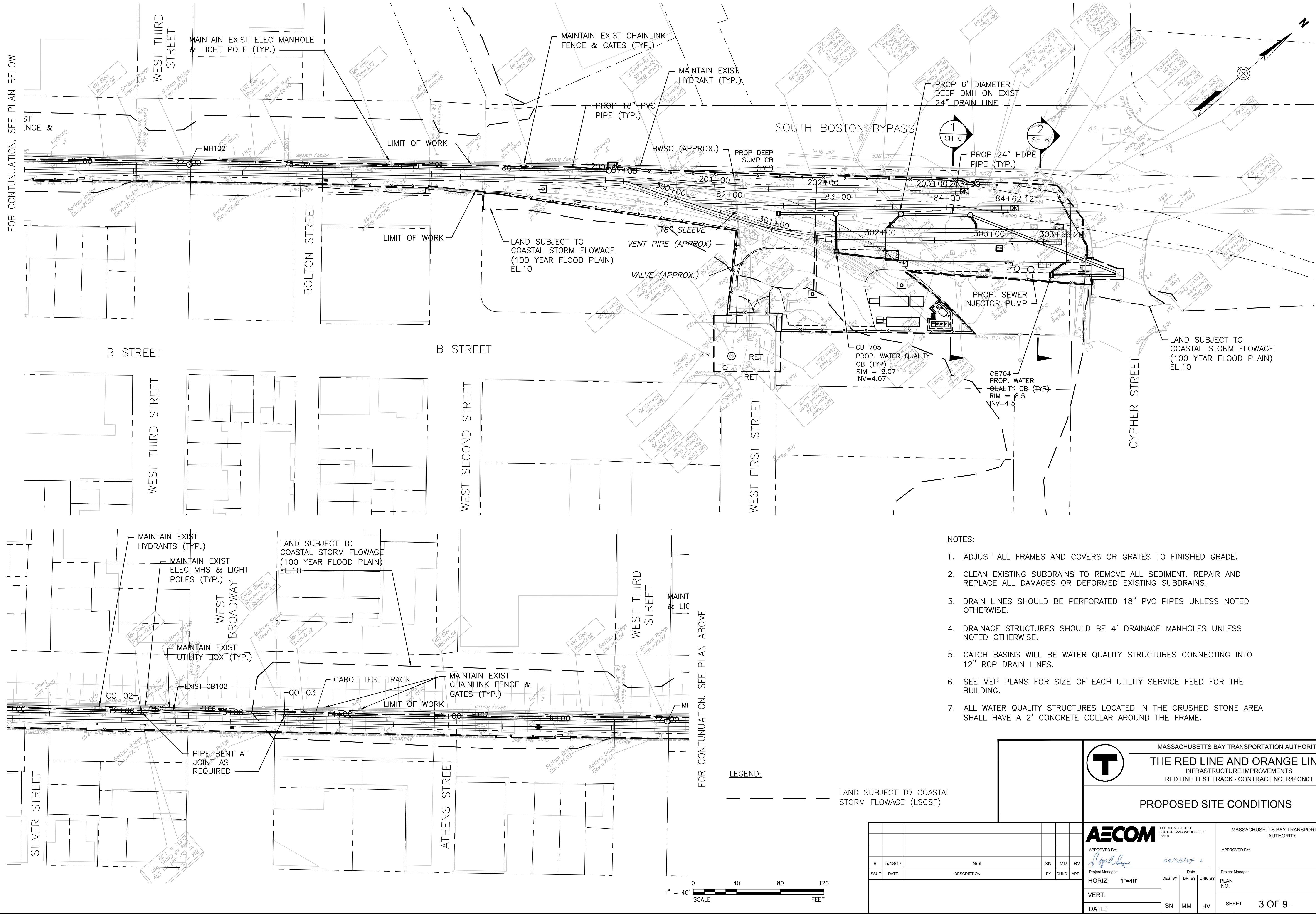
- TOPOGRAPHIC SURVEY BY AECOM ON NOVEMBER 12, 2014. SURVEY HAS BEEN SUPPLEMENTED WITH ADDITIONAL PARCELS BY MASS GIS.
- HORIZONTAL DATUM: MASSACHUSETTS COORDINATE SYSTEM (NAD83).  
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

#### LEGEND:

--- LAND SUBJECT TO COASTAL STORM FLOWAGE (LSCSF)

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
		THE RED LINE AND ORANGE LINE INFRASTRUCTURE IMPROVEMENTS RED LINE TEST TRACK - CONTRACT NO. R44CN01	
EXISTING SITE CONDITIONS		AECOM 1 FEDERAL STREET BOSTON, MASSACHUSETTS 02110	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
APPROVED BY:		APPROVED BY:	
DATE: 04/25/17		DATE: 04/25/17	
PROJECT MANAGER:		PROJECT MANAGER:	
DATE: 04/25/17		DATE: 04/25/17	
HORIZ: 1"=40'		HORIZ: 1"=40'	
VERT: 1"=40'		VERT: 1"=40'	
DATE: 04/25/17		DATE: 04/25/17	
SN NY BV		SN NY BV	
SHEET 2 OF 9		SHEET 2 OF 9	
A		A	

PLOTTED: 05/23/17 4:15PM BY: NAPOLITANOS  
DRAWING: P:\WORK\60512784\900\_WORK\910\_CAD\920\_SHEETS\NOI\60512784\_C\_(CONST PLAN)\NOI.DWG [SH 3] 05/18/17 7:39AM



- NOTES:
- ADJUST ALL FRAMES AND COVERS OR GRATES TO FINISHED GRADE.
  - CLEAN EXISTING SUBDRAINS TO REMOVE ALL SEDIMENT. REPAIR AND REPLACE ALL DAMAGES OR DEFORMED EXISTING SUBDRAINS.
  - DRAIN LINES SHOULD BE PERFORATED 18" PVC PIPES UNLESS NOTED OTHERWISE.
  - DRAINAGE STRUCTURES SHOULD BE 4' DRAINAGE MANHOLES UNLESS NOTED OTHERWISE.
  - CATCH BASINS WILL BE WATER QUALITY STRUCTURES CONNECTING INTO 12" RCP DRAIN LINES.
  - SEE MEP PLANS FOR SIZE OF EACH UTILITY SERVICE FEED FOR THE BUILDING.
  - ALL WATER QUALITY STRUCTURES LOCATED IN THE CRUSHED STONE AREA SHALL HAVE A 2' CONCRETE COLLAR AROUND THE FRAME.



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY  
**THE RED LINE AND ORANGE LINE**  
INFRASTRUCTURE IMPROVEMENTS  
RED LINE TEST TRACK - CONTRACT NO. R44CN01

PROPOSED SITE CONDITIONS

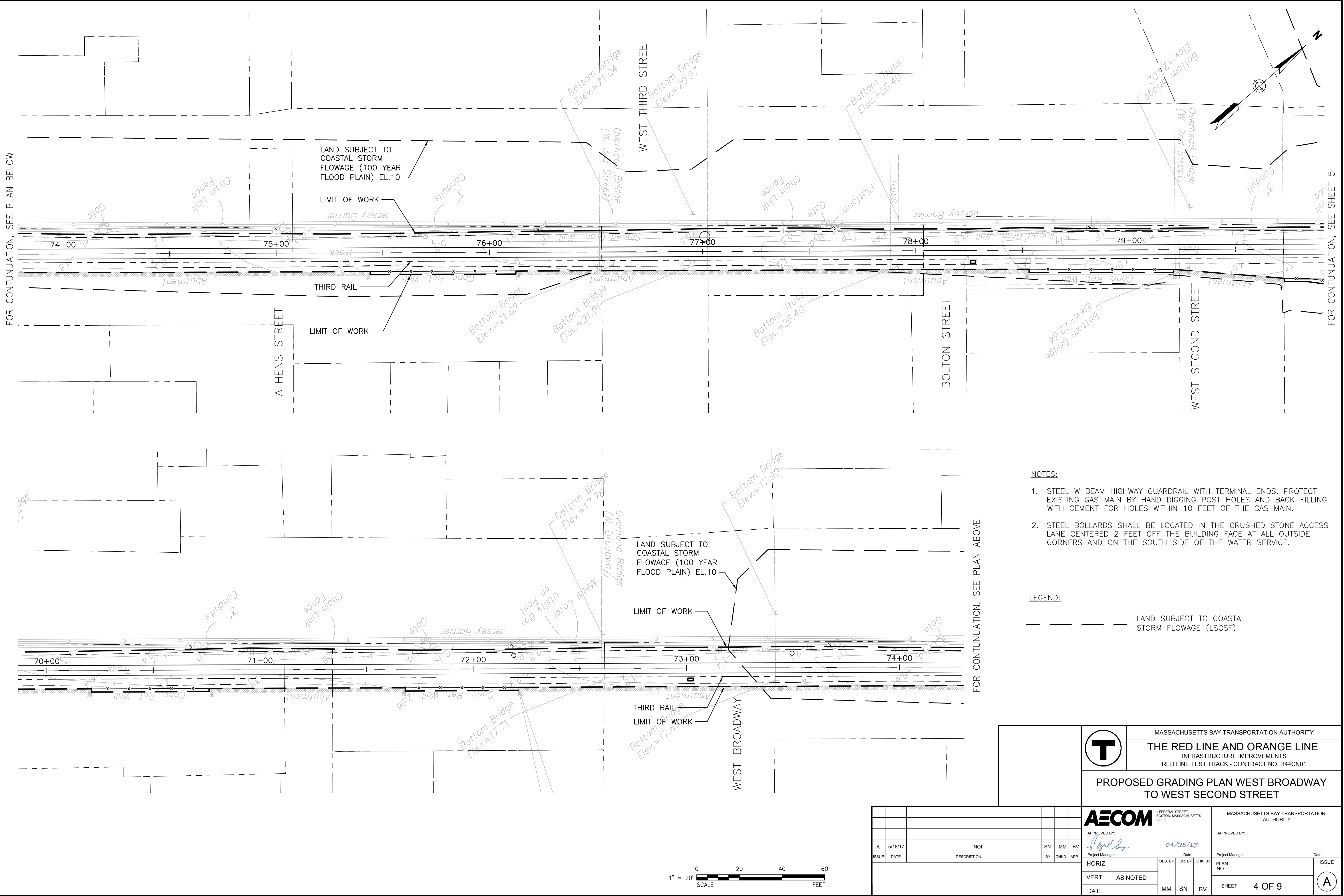


APPROVED BY: *[Signature]* 04/25/17  
Project Manager  
HORIZ: 1"=40'  
VERT:  
DATE:

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY  
APPROVED BY: *[Signature]*  
Project Manager  
PLAN NO.  
SHEET 3 OF 9  
ISSUE

A




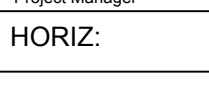
PLOTTED: 05/23/17 4:16PM BY: NAPOLITANOS  
 DRAWING: P:\WORK\60512784\900\_WORK\910\_CAD\900\_SHEETS\NOI\60512784\_C\_(GRADING PLAN)-NOI.DWG [WEST OF YARD 61] 05/18/17 7:47AM



- NOTES:
- STEEL W BEAM HIGHWAY GUARDRAIL WITH TERMINAL ENDS. PROTECT EXISTING GAS MAIN BY HAND DIGGING POST HOLES AND BACK FILLING WITH CEMENT FOR HOLES WITHIN 10 FEET OF THE GAS MAIN.
  - STEEL BOLLARDS SHALL BE LOCATED IN THE CRUSHED STONE ACCESS LANE CENTERED 2 FEET OFF THE BUILDING FACE AT ALL OUTSIDE CORNERS AND ON THE SOUTH SIDE OF THE WATER SERVICE.

LEGEND:

--- LAND SUBJECT TO COASTAL STORM FLOWAGE (LSCSF)

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY <b>THE RED LINE AND ORANGE LINE</b> INFRASTRUCTURE IMPROVEMENTS RED LINE TEST TRACK - CONTRACT NO. R44CN01	
		<b>PROPOSED GRADING PLAN WEST BROADWAY TO WEST SECOND STREET</b>	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
APPROVED BY: 		APPROVED BY:	
PROJECT MANAGER: 		PROJECT MANAGER:	
DATE: 04/25/17		DATE:	
HORIZ:		DES. BY:	
VERT: AS NOTED		DR. BY:	
DATE:		CHK. BY:	
MM SN BV		PLAN NO.	
SHEET		4 OF 9	
ISSUE		A	

PLOTTED: 05/23/17 4:16PM BY: NAPOLITANOS  
 DRAWING: P:\WORK\60512784\900\_WORK\910\_CAD\90\_SHEETS\NOI\60512784\_C\_(GRADING PLAN)\NOI.DWG [YARD 61] 05/18/17 7:47AM

FOR CONTINUATION, SEE SHEET 4

WEST SECOND STREET

B STREET

WEST FIRST STREET

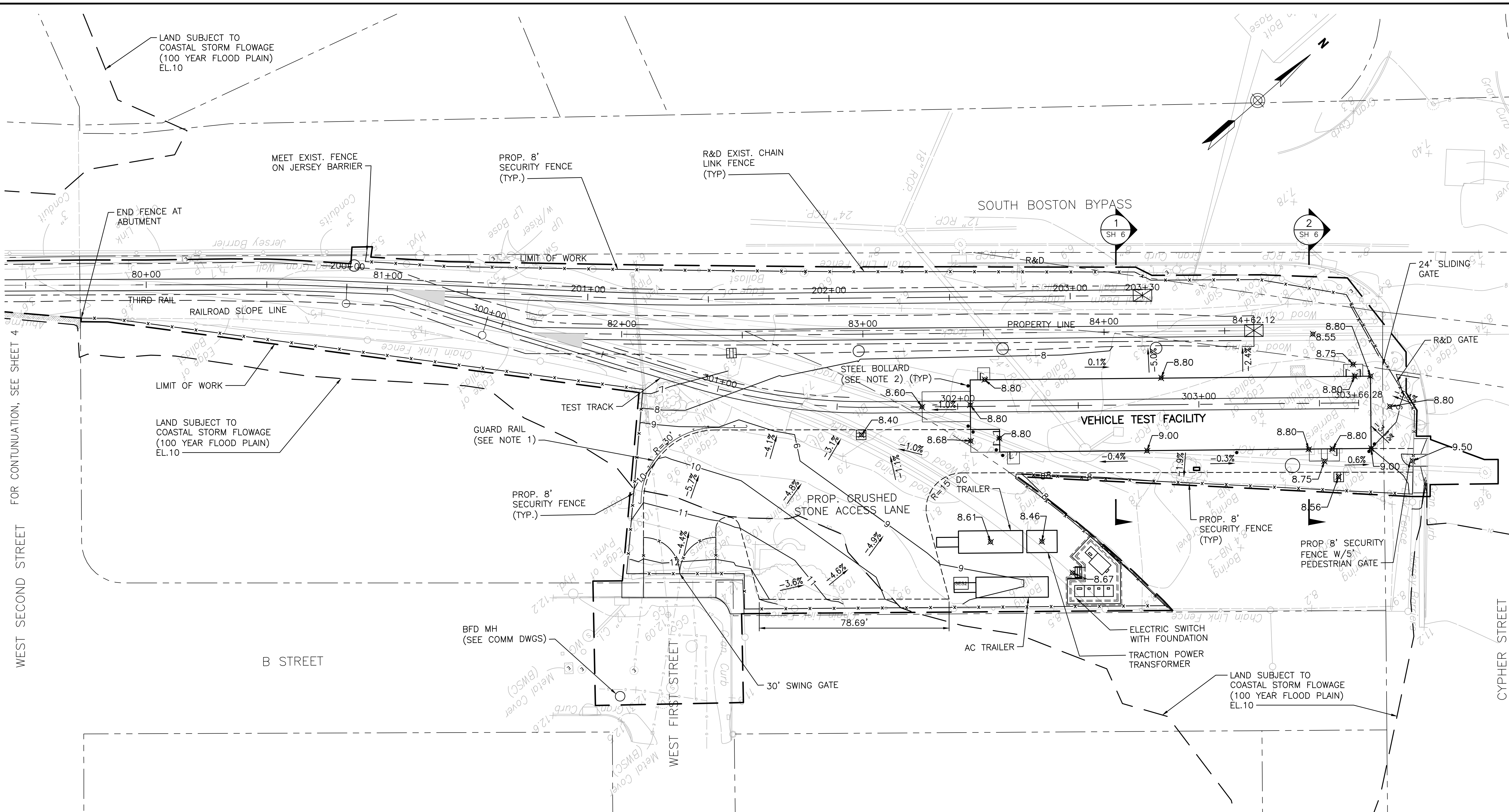
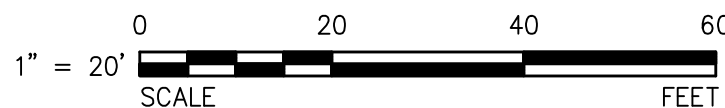
CYPHER STREET

NOTES:

- STEEL W BEAM HIGHWAY GUARDRAIL WITH TERMINAL ENDS. PROTECT EXISTING GAS MAIN BY HAND DIGGING POST HOLES AND BACK FILLING WITH CEMENT FOR HOLES WITHIN 10 FEET OF THE GAS MAIN.
- STEEL BOLLARDS SHALL BE LOCATED IN THE CRUSHED STONE ACCESS LANE CENTERED 2 FEET OFF THE BUILDING FACE AT ALL OUTSIDE CORNERS AND ON THE SOUTH SIDE OF THE WATER SERVICE.

LEGEND:

————— LAND SUBJECT TO COASTAL  
 STORM FLOWAGE (LSCSF)



ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.
A	5/18/17	NOI	SN	MM	BV
<div> <div>Project Manager</div> <div>Date</div> </div>					
HORIZ:			DES. BY	DR. BY	CHK. BY
VERT:			AS NOTED		
DATE:			MM	SN	BV

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

**THE RED LINE AND ORANGE LINE**

INFRASTRUCTURE IMPROVEMENTS

RED LINE TEST TRACK - CONTRACT NO. R44CN01

**PROPOSED GRADING PLAN YARD 61**

1 FEDERAL STREET  
BOSTON, MASSACHUSETTS 02110

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

*[Signature]* 04/25/17

APPROVED BY:

Project Manager

HORIZ:

VERT: AS NOTED

DATE:

DES. BY

DR. BY

CHK. BY

PLAN NO.

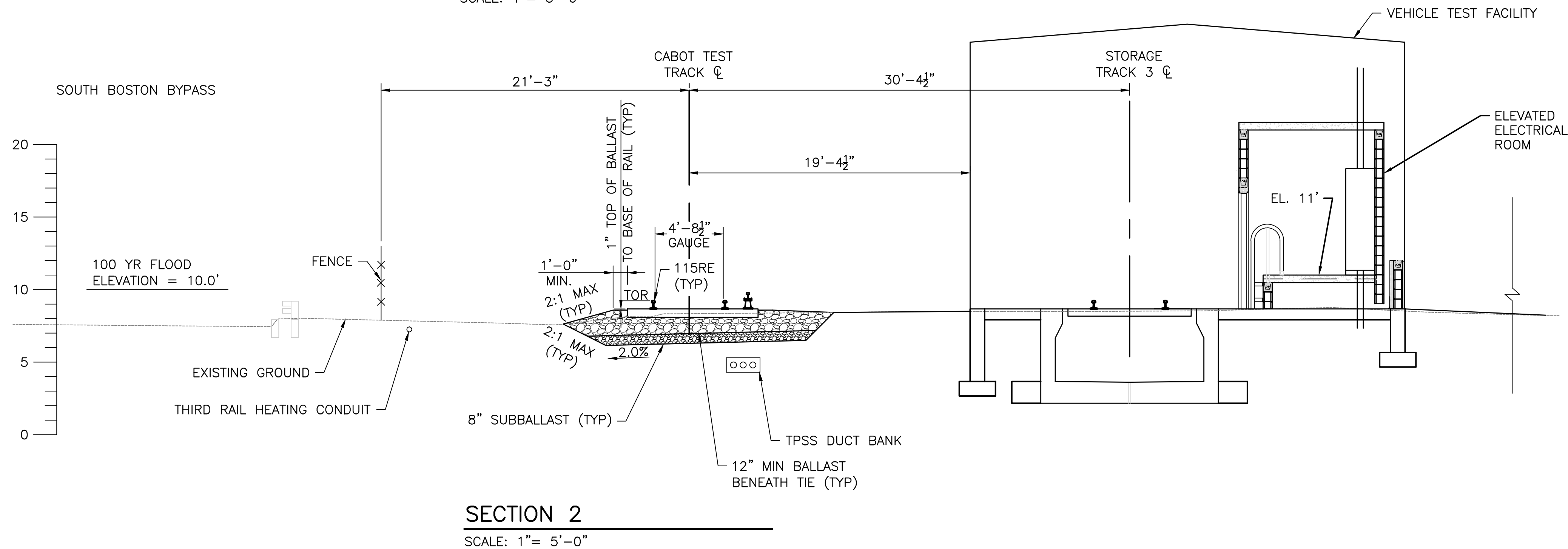
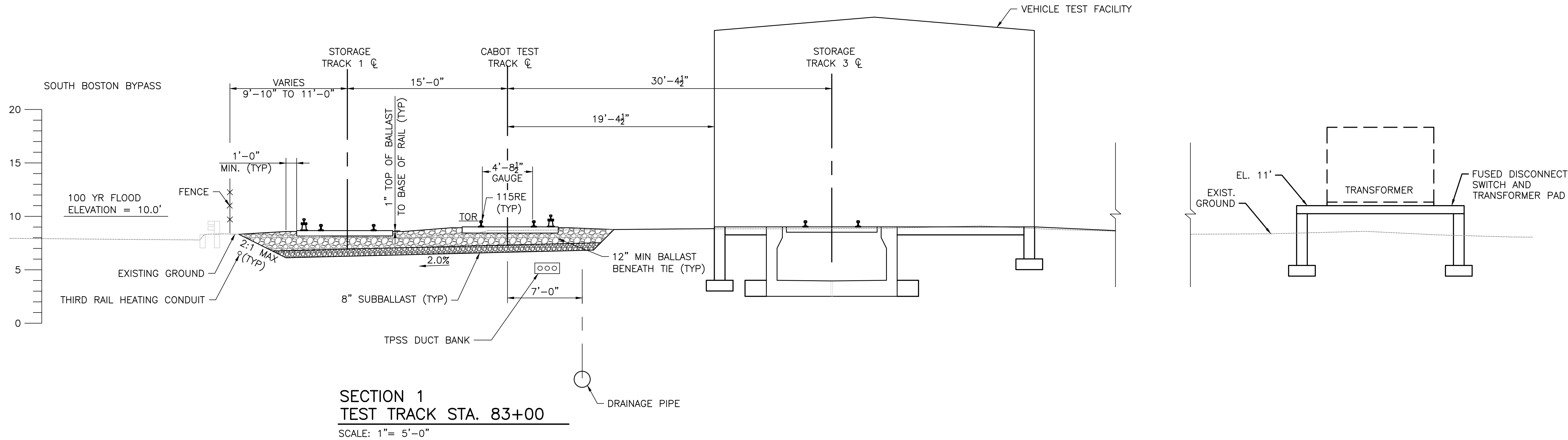
SHEET 5 OF 9


ISSUE

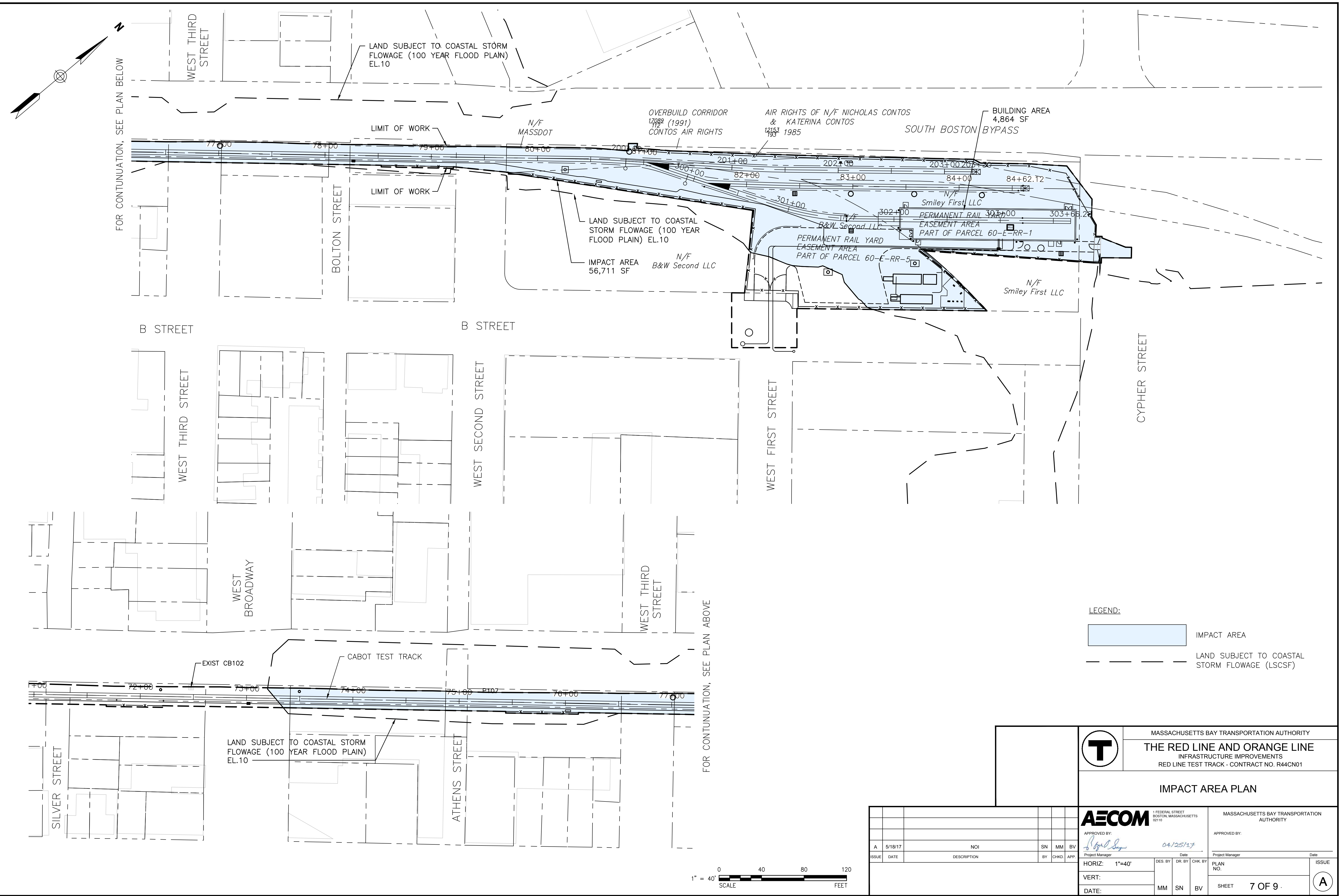
A

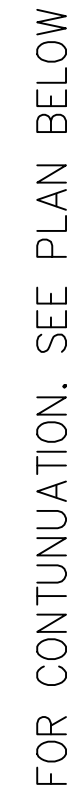
PLOTTED: 05/23/17 4:16PM BY: NAPOLITANOS  
 DRAWING: P:\WORK\60512784\900\_WORK\910\_CAD\90\_SHEETS\NOI\60512784\_C\_(GRADING PLAN)\NOI.DWG [YARD 61] 05/18/17 7:47AM

PLOTTED: 05/23/17 4:16PM BY: NAPOLITANOS  
DRAWING: P:\WORK\60512784900\_WORK\910\_CAD\20\_SHEETS\NOI\2929P579\_TR\_509.DWG [TR-509] 05/15/17 2:20PM

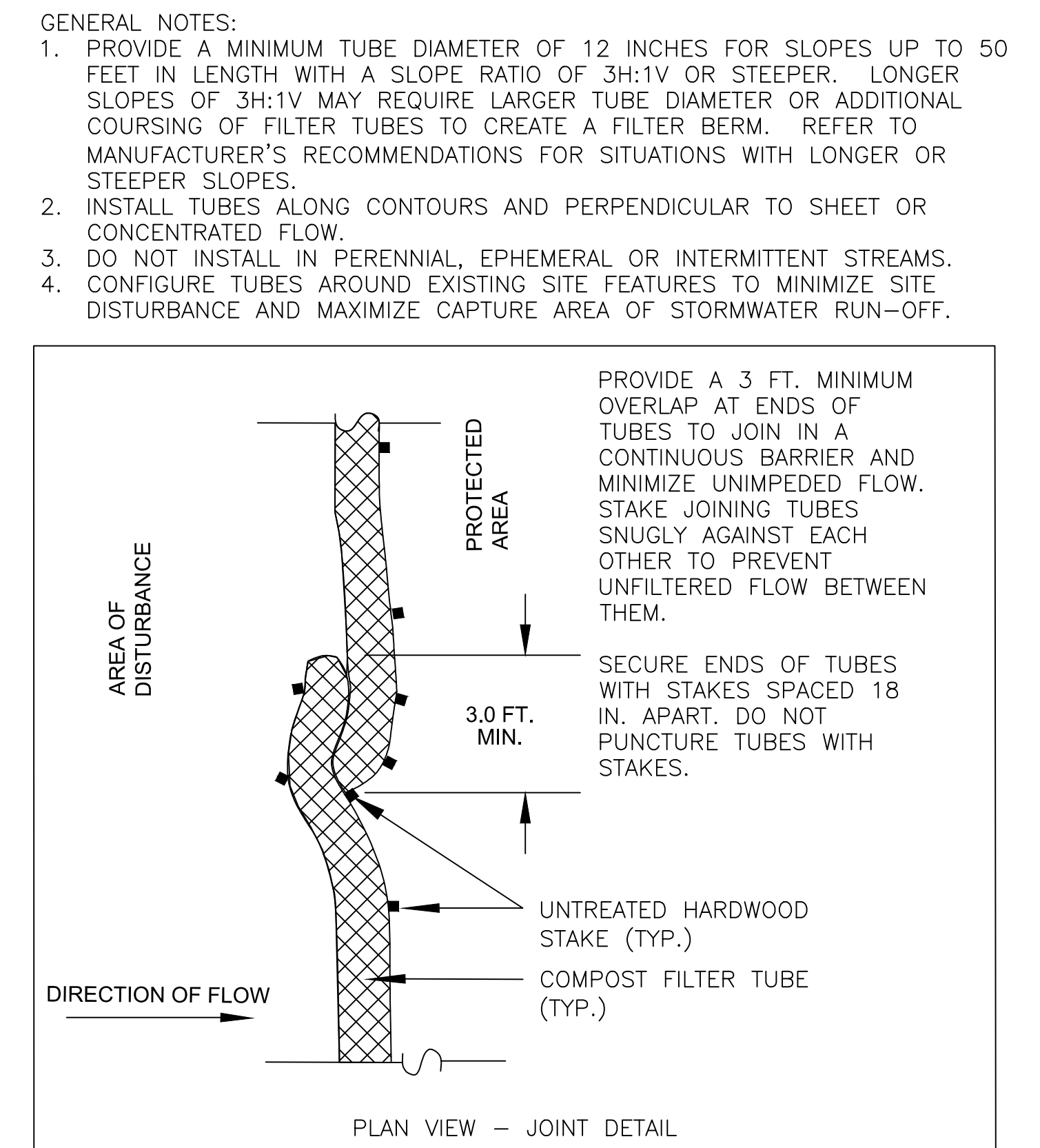
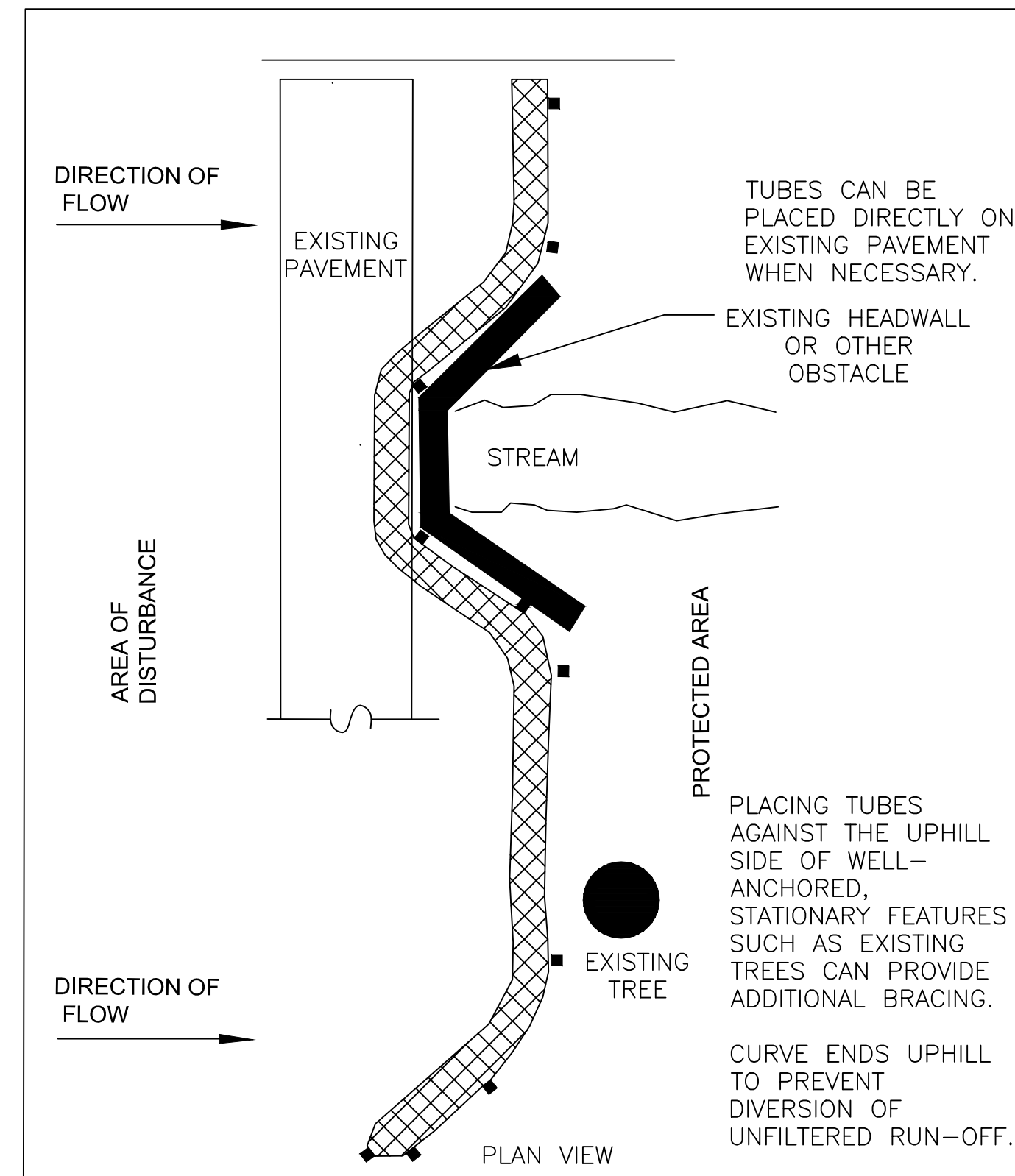
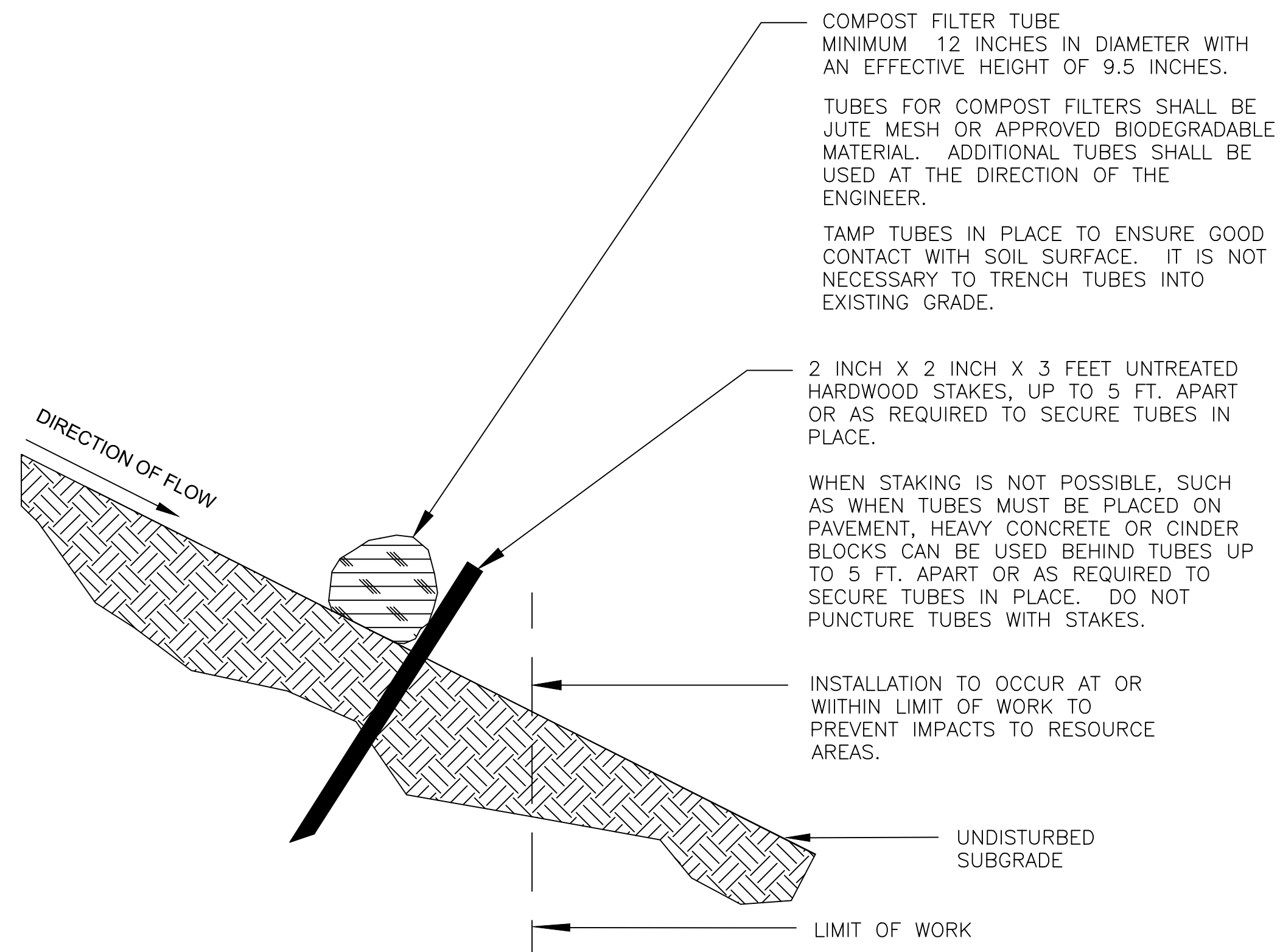


				<div><div></div><div>T</div></div>		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
						THE RED LINE AND ORANGE LINE INFRASTRUCTURE IMPROVEMENTS RED LINE TEST TRACK - CONTRACT NO. R44CN01	
						CROSS SECTIONS	
						<div>AECOM</div> <div>1 FEDERAL STREET BOSTON, MASSACHUSETTS 02110</div>	
						MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
						APPROVED BY: <div></div> <div>04/25/17</div>	
A		5/18/17	NOI		SN	MM	BV
ISSUE		DATE	DESCRIPTION		BY	CHKD	APP.



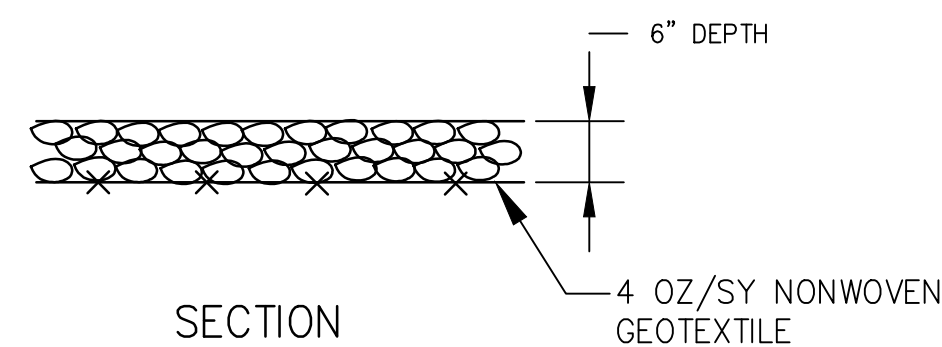
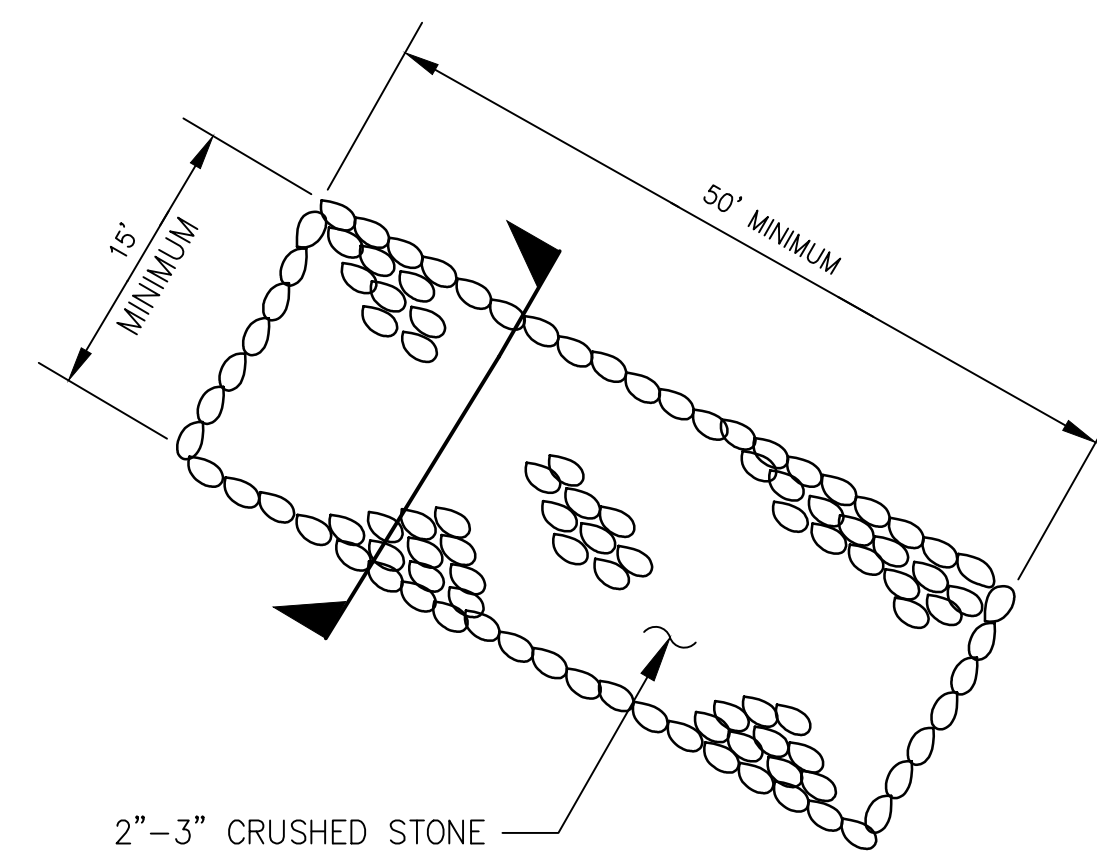


												<div><div><div>AECOM</div><div>1 FEDERAL STREET BOSTON, MASSACHUSETTS 02110</div></div><div>MASSACHUSETTS BAY TRANSPORTATION AUTHORITY</div></div>			
												APPROVED BY:			
A 5/18/17 NOI SN MM BV												APPROVED BY:			
ISSUE DATE DESCRIPTION BY CHKD APP				Project Manager Date				Project Manager Date				ISSUE			
				HORIZ: 1"=40'				DES. BY DR. BY CHK BY				PLAN NO.			
				VERT:				MM SN BV				SHEET 8 OF 9			
				DATE:								<div><div>A</div></div>			



## SINGLE COMPOST FILTER TUBE DETAIL

NOT TO SCALE



CRUSHED STONE  
CONSTRUCTION ENTRANCE

								<div><div><div>AECOM</div><div>1 FEDERAL STREET BOSTON, MASSACHUSETTS 02110</div></div><div>APPROVED BY:  04/25/17</div></div>				MASSACHUSETTS BAY TRANSPORTATION AUTHORITY			
								APPROVED BY:							
A 5/18/17 NOI SN MM BV				Project Manager				Date							
ISSUE DATE DESCRIPTION BY CHKD APP:				HORIZ: NTS DES. BY DR. BY CHK. BY				PLAN NO. ISSUE							
				VERT:											
				DATE: MM SN BV				SHEET 9 OF 9							
								<div>A</div>							