



September 21, 2016
16067

Ms. Alison Sirois
Maine Department of Environmental Protection
312 Canco Road
Portland, ME 04103

Natural Resource Protection Act Permit by Rule Submission
Woodford Street Storm Drain Outfall, Portland, Maine

Dear Ms. Sirois:

On behalf of the City of Portland, please find the attached submission for a Natural Resource Protection Act Permit by Rule for the installation of a 36" storm drain outfall which discharges into Back Cove near the Intersection of Vannah Avenue and Baxter Boulevard in Portland, Maine. This activity falls under Chapter 305, Section 7: "Outfall Pipes," and Section 20: "Activities located in, on or over high or moderate value inland waterfowl and wading bird habitat, or shorebird nesting, feeding, and staging areas." The outfall pipe is at the end of a combined sewer separation project that the City will begin in November of 2016. We are submitting the enclosed permit application for impacts associated with the construction of a 36" storm drain with a rip rap outlet.

The sewer separation work will include the installation of approximately 1,700 linear feet of new storm drain servicing approximately 50 acres of residential and commercial development in the vicinity of Woodford Street and Forest Avenue. This work will relieve these service areas by redirecting storm water out of the combined sewer system and discharging it into Back Cove. Other project improvements include replacing sanitary sewers and water mains.

Work applicable to this permit includes construction of a new 36" pipe outfall into Back Cove with riprap outlet protection below the highest annual tide elevation. The new outfall will be located immediately adjacent to an existing 36" outfall constructed in 2001 which is to remain in place. As part of this application, we respectfully request a waiver for the requirement to create or maintain a vegetated buffer between the outfall and the resource. The rip rap apron will extend 10 feet on each side of the pipe, and only 16 feet and 10 inches beyond the outfall in order to minimize the area of disturbance, but still control erosion.

Back Cove is a tidal estuary basin that discharges directly into the Atlantic Ocean. It is identified by the Maine Department of Environmental Protection as a Tidal Wading Waterfowl Habitat and a Shorebird Feeding Area Habitat. Based on the anticipated construction schedule, the work within the waterbody will occur between November 2016 and March of 2017. Due to the proposed timing of construction, and because the area of Back Cove affected by this project is not recognized as a shorebird roosting area, it is our understanding that this activity does not require approval for the timing of activity from the Department of Inland Wildlife and Fisheries (IF&W). The project will also require a Maine General Permit (Category 2) from the Army Corps of Engineers.

Attached are two copies of the application, required attachments, and check for the review fee. If you have any questions regarding this project or require additional information, please do not hesitate to contact us.

Sincerely,

SEBAGO TECHNICS, INC.

A handwritten signature in black ink, appearing to read "Daniel L. Riley". The signature is fluid and cursive, with the first name "Daniel" and last name "Riley" clearly distinguishable.

Daniel L Riley, P.E., C.F.M.
Senior Project Manager

DLR:llg
Enc.

11/14/2013

DEPARTMENT OF ENVIRONMENTAL PROTECTION

NRPA PERMIT BY RULE NOTIFICATION FORM

(For use with DEP Regulation, Natural Resources Protection Act-Permit by Rule Standards, Chapter 305)

PLEASE TYPE OR PRINT IN BLACK INK ONLY

Name of Applicant: (owner)	City of Portland	Name of Agent:	Sebago Technics, Inc.		
Applicant Mailing Address:	55 Portland Street	Agent Phone # (include area code):	207-200-2100		
Town/City:	Portland	PROJECT Information Name of Town/City:	Portland		
State and Zip code:	Maine 04101	Name of Wetland or Waterbody:	Back Cove, Atlantic Ocean		
Daytime Phone # (include area code):	207-874-8801	Map #:	H8NW	Lot #:	128X001
Detailed Directions to Site:	From I-295, take exit 6B and continue North on Forest Ave. for 1 mile. Turn right onto Vannah Ave. The outfall pipe location is SE of the intersection of Baxter Blvd. and Vannah Ave.				
	UTM Northing: (if known)	4836106.9	UTM Easting: (if known)	602985.1	
Description of Project:	Installation of a 36" storm drain outfall pipe discharging into Back Cove directly adjacent to existing outfall, as part of a larger CSO separation along Woodford St.				
Part of a larger project? (check one) →	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	After the Fact? (check one) →	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Check one → This project <input type="checkbox"/> does (or) <input checked="" type="checkbox"/> does not involve work below mean low water (average low water).	

NRPA PERMIT BY RULE (PBR) SECTIONS: (Check at least one)

I am filing notice of my intent to carry out work which meets the requirements for Permit By Rule (PBR) under DEP Rules, Chapter 305. I and my agents, if any, have read and will comply with all of the standards in the Sections checked below.

- | | | |
|---|---|---|
| <input type="checkbox"/> Sec. (2) Act. Adj. to Protected Natural Res. | <input type="checkbox"/> Sec. (10) Stream Crossing | <input type="checkbox"/> Sec. (17) Transfers/Permit Extension |
| <input type="checkbox"/> Sec. (3) Intake Pipes | <input type="checkbox"/> Sec. (11) State Transportation Facil. | <input type="checkbox"/> Sec. (18) Maintenance Dredging |
| <input type="checkbox"/> Sec. (4) Replacement of Structures | <input type="checkbox"/> Sec. (12) Restoration of Natural Areas | <input type="checkbox"/> Sec. (19) Activities in/on/over significant vernal pool habitat |
| <input type="checkbox"/> Sec. (5) REPEALED | <input type="checkbox"/> Sec. (13) F&W Creation/Enhance/Water Quality Improvement | <input checked="" type="checkbox"/> Sec. (20) Activities located in/on/over high or moderate value inland water-fowl & wading bird habitat or shore-bird feeding & roosting areas |
| <input type="checkbox"/> Sec. (6) Movement of Rocks or Vegetation | <input type="checkbox"/> Sec. (14) REPEALED | |
| <input checked="" type="checkbox"/> Sec. (7) Outfall Pipes | <input type="checkbox"/> Sec. (15) Public Boat Ramps | |
| <input type="checkbox"/> Sec. (8) Shoreline stabilization | <input type="checkbox"/> Sec. (16) Coastal Sand Dune Projects | |
| <input type="checkbox"/> Sec. (9) Utility Crossing | | |

NOTIFICATION FORMS CANNOT BE ACCEPTED WITHOUT THE NECESSARY ATTACHMENTS:

- ☒ **Attach** a check for the correct fee, payable to: "Treasurer, State of Maine". The current fee for NRPA PBR Notifications can be found at the Department's website: <http://www.maine.gov/dep/feesched.pdf>
- ☒ **Attach** a U.S.G.S. topo map or Maine Atlas & Gazetteer map with the project site clearly marked.
- ☒ **Attach** Proof of Legal Name if applicant is a corporation, LLC, or other legal entity. Provide a copy of Secretary of State's registration information (available at <http://icrs.informe.org/nei-sos-icrs/ICRS?MainPage=x>). Individuals and municipalities are not required to provide any proof of identity.
- ☒ **Attach** photos of the proposed site where activity will take place as required in PBR Sections checked above.
- ☒ **Attach** all other required submissions as outlined in the PBR Sections checked above.

I authorize staff of the Departments of Environmental Protection, Inland Fisheries & Wildlife, and Marine Resources to access the project site for the purpose of determining compliance with the rules. I also understand that **this permit is not valid until approved by the Department or 14 days after receipt by the Department, whichever is less.**

By signing this Notification Form, I represent that the project meets all applicability requirements and standards in the rule and that the applicant has sufficient title, right, or interest in the property where the activity takes place.

Signature of Agent or Applicant:	<i>Bradley B. Poland - city of portland</i>	Date:	2016-09-21
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Keep a copy as a record of permit. Send the form with attachments via certified mail or hand deliver to the Maine Dept. of Environmental Protection at the appropriate regional office listed below. The DEP will send a copy to the Town Office as evidence of the DEP's receipt of notification. No further authorization by DEP will be issued after receipt of notice. Permits are valid for two years. **Work carried out in violation of any standard is subject to enforcement action.**

AUGUSTA DEP
17 STATE HOUSE STATION
AUGUSTA, ME 04333-0017
(207)287-3901

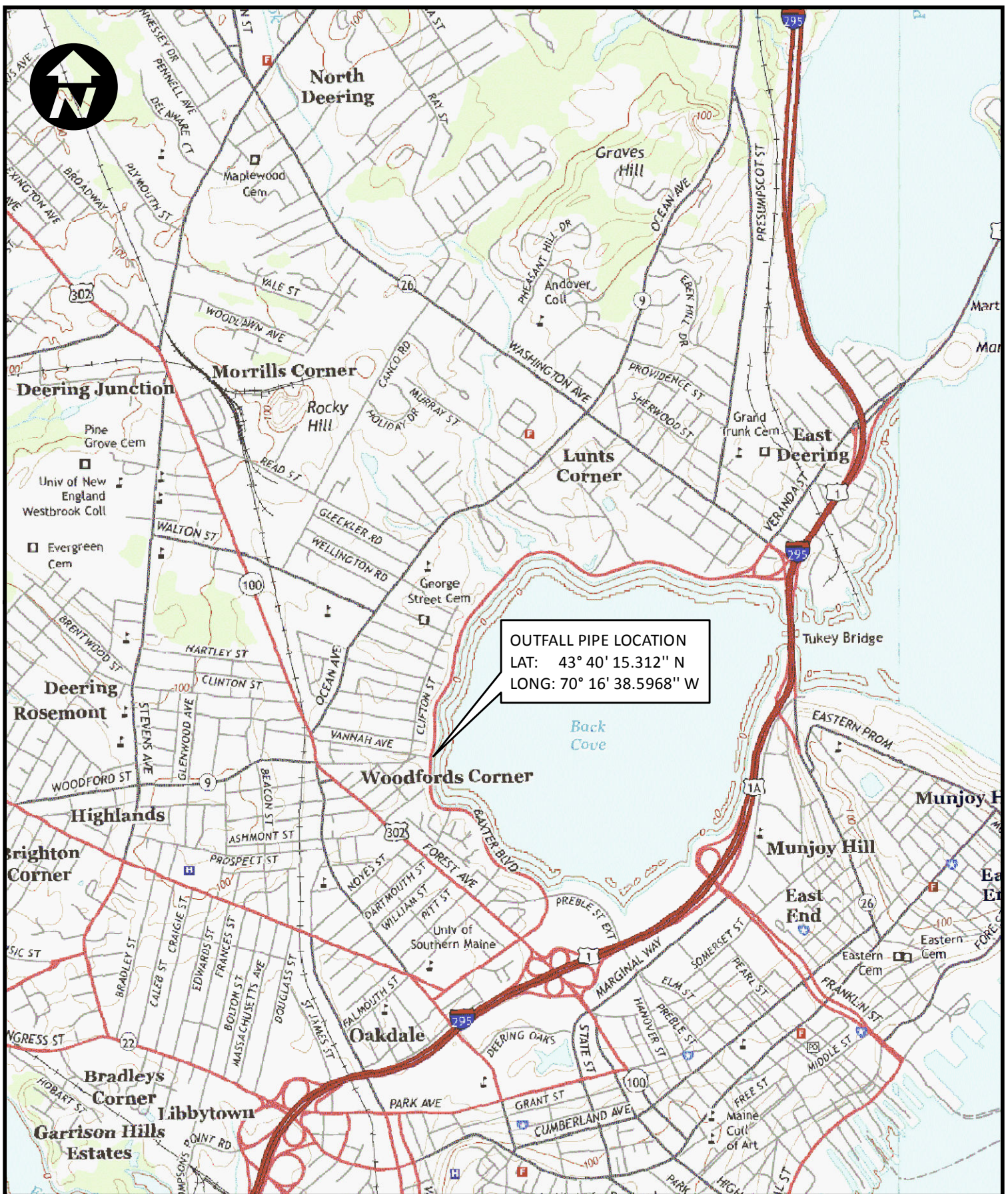
PORTLAND DEP
312 CANCO ROAD
PORTLAND, ME 04103
(207)822-6300

BANGOR DEP
106 HOGAN ROAD
BANGOR, ME 04401
(207)941-4570

PRESQUE ISLE DEP
1235 CENTRAL DRIVE
PRESQUE ISLE, ME 04769
(207)764-0477

OFFICE USE ONLY	Ck.#	Date	Staff	Staff	
PBR #	FP		Acc. Date	Def. Date	After Photos

DEPLW0311-O2013



SEBAGO
TECHNICS

WWW.SEBAGOTECHNICS.COM

75 John Roberts Rd. - Suite 1A
South Portland, ME 04106
Tel. 207-200-2100

250 Goddard Rd. - Suite B
Leviston, ME 02340
Tel. 207-783-5656

SITE LOCATION MAP OF: WOODFORD STREET SEWER SEPARATION

LOCATION:
WOODFORD STREET
PORTLAND, MAINE

INFORMATION:
2011 USGS QUADRANGLE
(-PORTLAND-WEST -PORTLAND-EAST)

SCALE: 1" = 2,000'

DATE: 9/15/2016



Image 1: Looking East from the existing outfall toward Back Cove (taken by Gary Fullerton on 9/16/16).



Image 2: Looking East, a visual of the soil and vegetation near the existing outfall (taken by Gary Fullerton on 9/16/16).



Image 3: Looking Northwest at the existing 36" outfall pipe (taken by Gary Fullerton on 9/16/16).



Image 4: Looking Southwest at the existing 36" outfall pipe (taken by Gary Fullerton on 9/16/16).

Submitted

REQUEST FOR APPROVAL OF TIMING OF ACTIVITY (DMR)

This form is for use in obtaining approval from the **Department of Marine Resources (DMR)** for the timing of certain projects in accordance with Chapter 305 Permit by Rule Standards.

To be filled out by applicant: (Instructions are on the back of this form)

1. **Applicant's name:** _____

Address: _____

telephone: _____

2. I plan to perform the following activity (please check the appropriate box):

☐ **Sec. 3 Intake pipes** (tidal waters only)

☐ **Sec. 4 Replacement of structures** (tidal waters only)

☐ **Sec. 7 Outfall pipes** (tidal waters only)

☐ **Sec. 9 Utility crossings** (any location if performed between Oct. 2 and July 14)

☐ **Sec. 12 Restoration of natural areas** (tidal waters only)

☐ **Sec. 15 Public boat ramps** (tidal waters only)

☐ **Sec. 18 Maintenance dredging** (tidal waters only)

3. Brief description of project: [please include the name of the stream or waterbody, if known]

4. I plan to perform this activity between the dates of _____ and _____.
(start date) (end date)

5. I have included a map showing the location of my project.

***[Please note that if no location map is provided, no approval will be granted by DMR]**

6. Send completed form to: DMR Environmental Coordinator
P. O. Box 8, West Boothbay Harbor, ME 04575-008

For agency use only:

The Department has reviewed the proposed timing of the activity identified above and:

☐ approves of the project's timing as proposed.

☐ requires that the project's timing be changed to occur between _____ and _____
(start date) (end date)

☐ Other comments: _____

DMR Environmental Coordinator

Date

BACK
COVE

INSTALL RIPRAP APRON AT
OUTLET, PROTECT EXISTING
OUTLET & EXTEND RIPRAP TO
LIMITS SHOWN, MINIMIZE
DISTURBANCE TO EXISTING
VEGETATION, REFER TO RIPRAP
OUTLET CONSTRUCTION NOTES
FOR DISTURBANCE OF COASTAL
WETLAND VEGETATION OUTSIDE
RIPRAP LIMITS

GRADE PAVED AREAS WITHIN
BAXTER BOULEVARD TO MATCH
EXISTING CONDITIONS

10' WIDE RIPRAP
D50=24"
DEPTH=4.5'
TYPICAL BOTH SIDES

LOW PERMEABILITY
DAM

Pipe - (128)

36" STORMDRAIN

BAXTER BOULEVARD

gravel w

40" oak
lp
mastarm

CROSS WALK

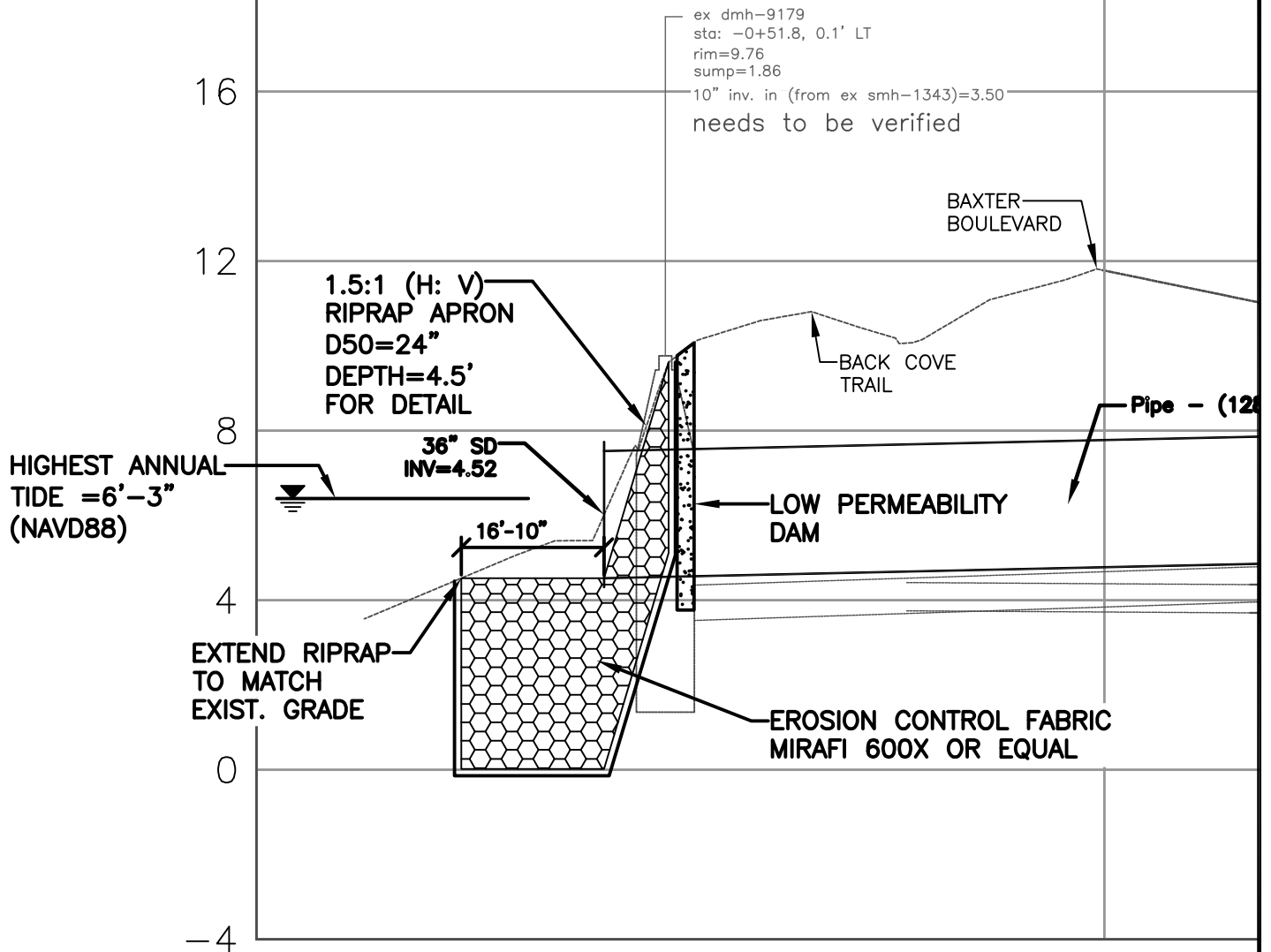


PLAN VIEW - 36" OUTFALL PIPE OF WOODFORD STREET CSO SEPARATION

LOCATION:
BAXTER BOULEVARD
PORTLAND, MAINE

FOR:
CITY OF PORTLAND
MAINE

SCALE: AS NOTED
DATE: 09-19-16
SHEET:
1 OF 4



PROFILE

SCALE: HORZ. 1"=20'
VERT 1"=4'



PROFILE - 36" OUTFALL PIPE OF WOODFORD STREET CSO SEPARATION

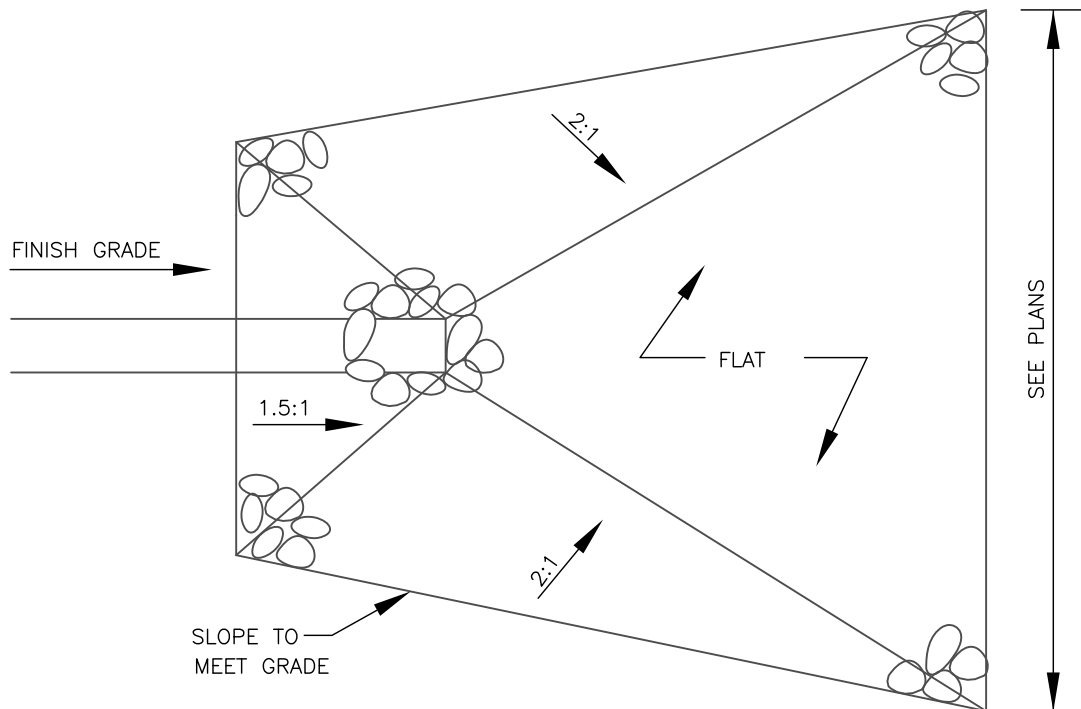
LOCATION:
BAXTER BOULEVARD
PORTLAND, MAINE

FOR:
CITY OF PORTLAND
MAINE

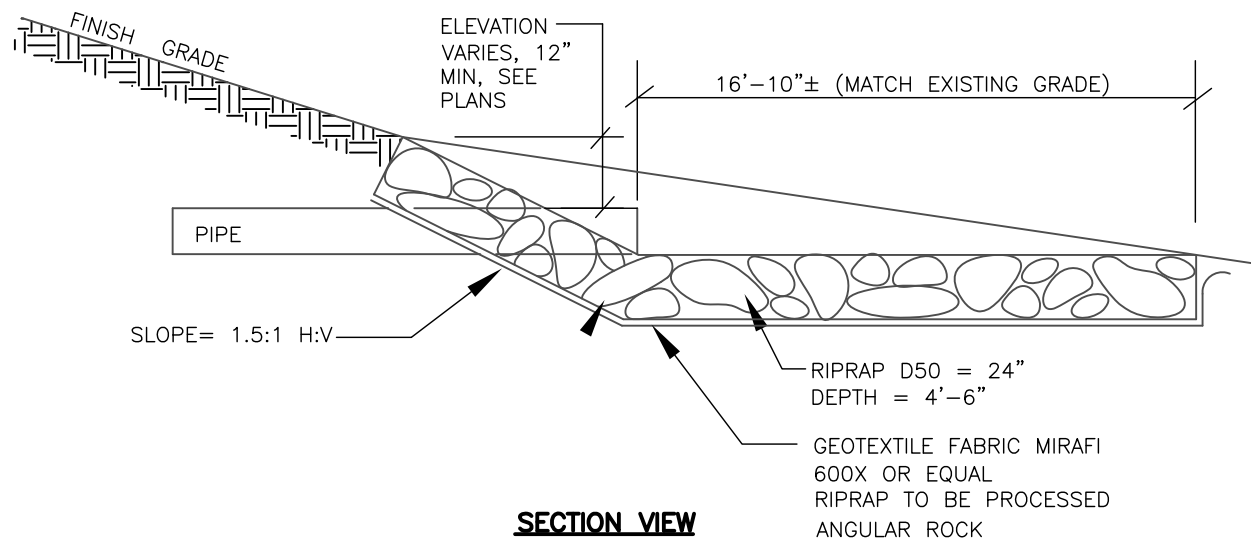
SCALE: AS NOTED

DATE: 09-19-16

SHEET:
2 OF 4



PLAN VIEW



SECTION VIEW

RIPRAP APRON

NOT TO SCALE



**DETAILS - 36" OUTFALL PIPE
OF WOODFORD STREET CSO SEPARATION**

LOCATION:

BAXTER BOULEVARD
PORTLAND, MAINE

FOR:

CITY OF PORTLAND
MAINE

SCALE: NOT TO SCALE

DATE: 09-19-16

SHEET:

3 OF 4

RIPRAP OUTLET CONSTRUCTION NOTES (REFER TO RIPRAP APRON DETAIL ON DETAIL SHEET)

PRE-CONSTRUCTION

1. MEET ON SITE WITH OWNER, SITE CONTRACTOR, AND THE DESIGN ENGINEER TO DISCUSS SCOPE OF WORK AND EXPECTATIONS. DETERMINE LIMITS OF TIDAL "SPARTINA" GRASS.
2. CONTRACTOR SHALL HAVE ALL MATERIALS APPROVED BY THE DESIGN ENGINEER PRIOR TO INSTALLATION.

CONSTRUCTION PHASE

1. STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL BMP MANUAL, LATEST EDITION. SEE THE EROSION & SEDIMENT CONTROL NOTES AND PLAN FOR ADDITIONAL REQUIREMENTS. . PROTECT NEARBY TREES, WHICH ARE PROPOSED TO REMAIN. TO THE EXTENT PRACTICAL, PROTECT THE ROOT ZONE OF THESE TREES.
2. THE CONTRACTOR SHALL CONSIDER THE TIDE SCHEDULE CAREFULLY; AND SHALL SCHEDULE WORK TO AVOID INTERRUPTIONS OF DAYLIGHT WORKING HOURS WITH HIGH TIDES. WORKING WITHIN TIDAL WATERS IS NOT PERMITTED.
3. THE CONTRACTOR SHALL ONLY WORK IN AREAS THAT CAN BE COMPLETED DURING EACH CONSTRUCTION DAY. NO AREAS SHALL BE EXCAVATED BY THE CONTRACTOR AND LEFT EXPOSED, AS THESE AREAS WILL BE SUBJECT TO EROSION FROM TIDAL SURGES OR STORM EVENTS.
4. WITHIN VEGETATIVE AREA PROPOSED TO BE DISTURBED, CAREFULLY REMOVE THE TOP ORGANIC LAYER (12"±) BELOW ELEVATION DETERMINED AT PRECONSTRUCTION MEETING. REMOVE USING METHOD THAT WILL KEEP THE VEGETATION SYSTEM INTACT. STOCKPILE THE ORGANIC LAYER IN A MANNER SO THAT MATERIAL CAN BE REUSED. REMOVE ONLY ENOUGH VEGETATION NEEDED TO INSTALL THE TIDE GATE VAULT AND SEWER PIPE IN ACCORDANCE WITH THE CROSS-SECTION. ORGANIC LAYER REMOVAL, STORAGE AND PLACEMENT SHALL BE INCIDENTAL TO THE RELATED PIPE PAY ITEM.
5. PIPE INSTALLATION: LOW PERMEABILITY DAMS OF NATURAL CLAY, BETONITE OR FLOWABLE FILL SHALL BE INSTALLED AS SHOWN TO MINIMIZE TIDAL FLOW THROUGH THE BACKFILL. DAMS SHALL EXTEND A MINIMUM 1 FOOT BELOW THE TRENCH BOTTOM, 1 FOOT BEYOND THE SIDEWALLS AND UP TO ELEVATION 7.4 OR TOP OF FINISHED GRADE. DAMS SHALL BE A MINIMUM OF 2 FEET THICKNESS. COSTS OF LOW PERMEABILITY DAMS SHALL BE INCIDENTAL TO THE CONTRACT.
6. INSTALL RIPRAP APRON IN ACCORDANCE WITH THE DETAILS. ONCE THE RIPRAP SLOPE IS COMPLETELY INSTALLED, THE CONTRACTOR SHALL GRADE THE DISTURBED AREAS UNIFORMLY TO MATCH EXISTING TOPOGRAPHY (U.N.O.) AND THE NEW RIPRAP EDGE.
7. PLACE EXISTING ORGANIC MATERIAL IN DISTURBED VEGETATIVE AREAS BELOW ELEVATION 10, WORKING FROM THE OUTFALL TO THE VAULT. DISTURBED VEGETATIVE AREAS ABOVE ELEVATION 10 SHALL HAVE LOAM AND SEED. ORGANIC LAYER REMOVAL, STORAGE AND PLACEMENT SHALL BE INCIDENTAL TO THE RELATED PIPE PAY ITEM.
8. INSPECT THE SITE EVERY TWO WEEKS FOR SIGNS OF EROSION AND ESTABLISHMENT OF VEGETATION. REPAIR ERODED AREAS AND REPLANT VEGETATION TO ESTABLISH 75% VEGETATION CATCH, AS REQUIRED.
9. IN AREAS REQUIRING REPLANTING, INSTALL NORTH AMERICAN GREEN C125BN EROSION CONTROL FABRIC OR APPROVED EQUAL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (PAY ITEM 613.319).
10. USING RAZOR BLADE, CAREFULLY CUT HOLES 1 FOOT O.C. AND IN ROWS SPACED 1 FOOT APART. LOOSELY OFFSET HOLES BETWEEN ROWS FOR APPROXIMATELY 6-8 HOLES PER SQUARE YARD. PLANT CORD GRASS SPARTINA PATENS (SALT MEADOW GRASS) AND SPARTINA ALTERNIFLORA (SMOOTH CORDGRASS) PLUGS IN ALTERNATING FASHION. COSTS ASSOCIATED WITH CUTTING FABRIC AND PLANTING GRASS PLUGS WILL BE PAID THROUGH THE BID ITEM 615.072.



NOTES - 36" OUTFALL PIPE OF WOODFORD STREET CSO SEPARATION

LOCATION:

BAXTER BOULEVARD
PORTLAND, MAINE

FOR:

CITY OF PORTLAND
MAINE

SCALE: N/A

DATE: 09-19-16

SHEET:

4 OF 4