

From: marsh.mike@epamail.epa.gov
To: [Minkin, Paul NAE](#); [Sneeringer, Paul J NAE](#)
Subject: Fw: Rivers End Salt Marsh revisions
Date: Monday, October 29, 2012 11:26:33 AM
Attachments: [OceScan10485.pdf](#)

Please see the attached email from Apex's subcontractor who is doing the River's End Park wetland mitigation design. I'd be interested in your thoughts on the questions posed.

Thanks,

Mike

Michael Marsh
Office of Ecosystem Protection
U.S. Environmental Protection Agency - New England
5 Post Office Square
Suite 100 (OEP05-2)
Boston, MA 02109-3912

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----- Forwarded by Mike Marsh/R1/USEPA/US on 10/29/2012 11:16 AM -----

From: "Stacy Minihane" <sminihane@btiweb.com>
To: Mike Marsh/R1/USEPA/US@EPA
Cc: "Christopher Morris" <CMorris@apexcos.com>, "Chet Myers" <cmyers@apexcos.com>, "Eric Las" <elas@btiweb.com>
Date: 10/29/2012 10:38 AM
Subject: Rivers End Salt Marsh revisions

Good Morning, Mike-

We are revising the design to address your comments, and I was hoping to coordinate with you regarding several items:

1. The current design conservatively only took "credit" up to elevation 2.5' for salt marsh creation. We understand that you would like more high marsh included in the design. Given the additional high marsh that is requested, can you provide guidance regarding how EPA will calculate the credit? I.e. what is the maximum high end elevation to which EPA will credit salt marsh creation?
2. Based on our reconnaissance of the site and datum information, we had established an appropriate low marsh elevation generally as elevation 2', however we note your concern that that elevation is too high for successful low marsh. The attached photograph was taken proximate to SM flag 7 looking southeast toward the river. As you can see, the alterniflora extends up-gradient from the river for a significant width (and beyond elevation 2').
3. A draft grading sketch that we think addresses your comments is attached. Would you please review and confirm that the revised grading does indeed address your concerns?

Are you available to discuss these items?

I will be available on my cell phone 774.454.4759.

Thank you,
Stacy H. Minihane, PWS
Associate

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***** ATTACHMENT NOT DELIVERED *****

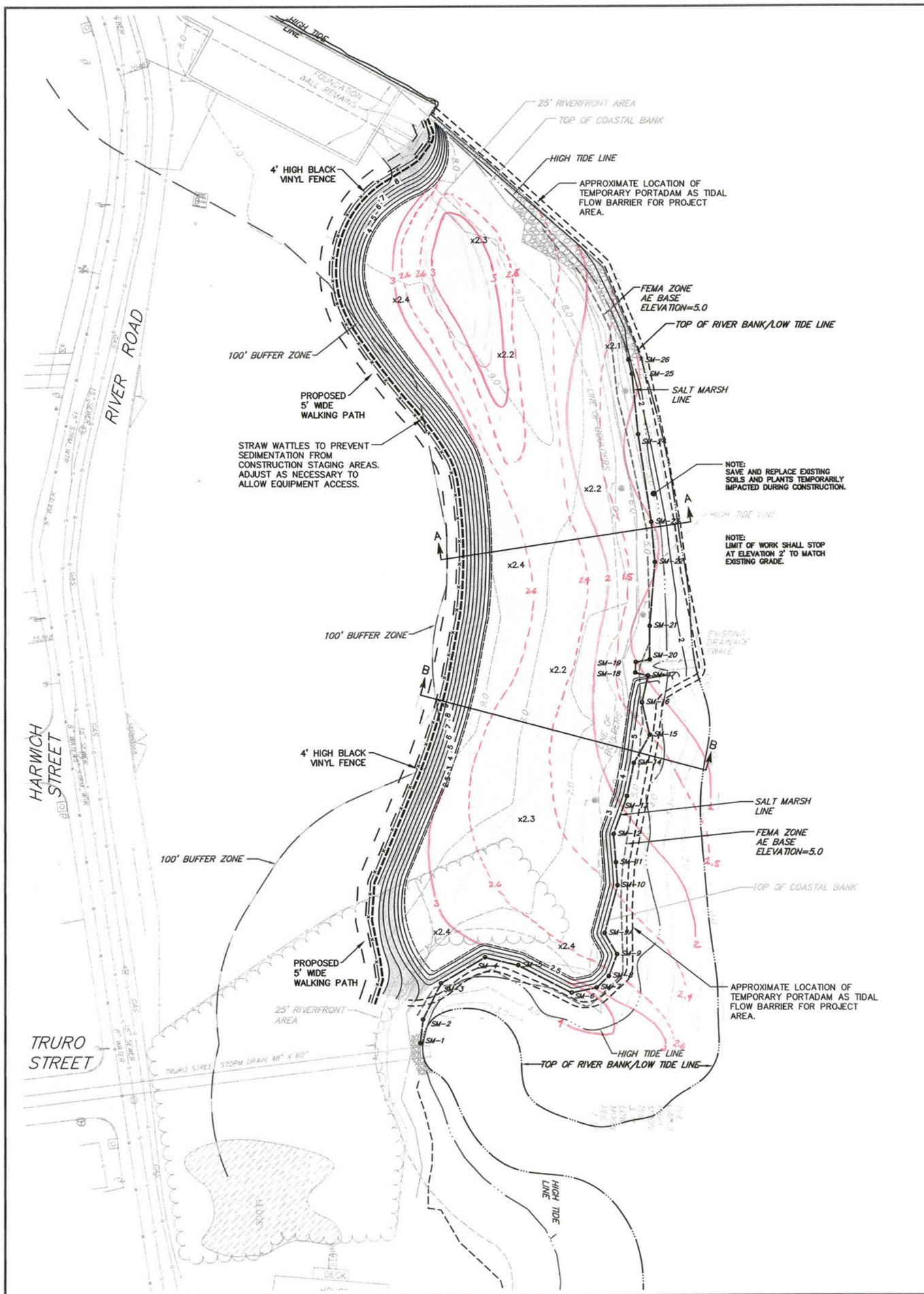
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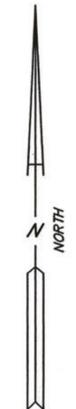
For further information, please contact the EPA Call Center at
(866) 411-4EPA (4372). The TDD number is (866) 489-4900.

***** ATTACHMENT NOT DELIVERED *****



LEGEND

EXISTING	PROPOSED
TREE	PORTADAM
TREE LINE	4' HIGH BLACK VINYL FENCE
LINE OF BOULDERS	MINOR CONTOUR
RIP RAP	MAJOR CONTOUR
FENCE	SPOT ELEVATION
MINOR CONTOUR	100 YEAR FLOODPLAIN BOUNDARY
MAJOR CONTOUR	25' RIVERFRONT AREA
SPOT ELEVATION	TOP OF COASTAL BANK
100 YEAR FLOODPLAIN BOUNDARY	HIGH TIDE LINE
25' RIVERFRONT AREA	SALT MARSH LIMIT
TOP OF COASTAL BANK	100' BUFFER ZONE
HIGH TIDE LINE	TOP OF RIVERBANK/ LOW TIDE LINE
SALT MARSH LIMIT	
100' BUFFER ZONE	
TOP OF RIVERBANK/ LOW TIDE LINE	



PLANTING LIST

Legend	Elevation	Area (sf)	Plant Species	% Coverage/Spacing	Size
Low Marsh	Up To El. 2.5'	38,327	Spartina alterniflora smooth cordgrass	100% at 1.5' on center, 2 culms per hole (39,247 plants)	plugs
			Salt meadow grass (Spartina patens)	60% at 1' on center (1,600 plants)	plugs
			Spike grass (Distichlis spicata)	20% at 1' on center (535 plants)	plugs
High Marsh	El. 2.5' to 4'	2,322	Black grass (Juncus gerardii)	15% at 1' on center (335 plants)	plugs
			New England Coastal Salt Tolerant Grass Mix	85% at 625 sf per pound	seed
Berm	El. 4' and up	6,058	Marsh elder (Iva frutescens)	80 at 4' on center	2'-3'
			Seaside goldenrod (Solidago sempervirens)	33% @ 950 sf per pound	seed
			Eastern showy aster (Eurybia spectabilis)	33% @ 950 sf per pound	seed
			Threadleaf coreopsis (Coreopsis verticillata)	33% @ 950 sf per pound	seed
			Beach plum (Prunus maritima)	67 plants at 6' on center	2'-3'
			Northern bayberry (Myrica pensylvanica)	68 plants @ 6' on center	2'-3'

BENCHMARKS

BM-1. USGS DISK STATE CONTROL POINT # 81D. TARKILN HILL ROAD NEAR BELLVILLE AVENUE. ELEV.=17.06' (DATUM NGVD29)

BM-2. GRANITE BOUND AT THE NORTHWEST CORNER OF THE INTERSECTION OF HARWICH ST. AND RIVER ROAD. ELEV.=9.41' (DATUM NGVD29)

TIDAL DATUM

	NGVD1929 (FT)
SPRING HIGH TIDE LINE	3.71'
MEAN HIGH WATER	2.61'
MEAN LOW WATER	-0.5'
SPRING LOW TIDE LINE	-1.36'

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PREPARED FOR:
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PREPARED BY:
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Civil Engineers + Landscape Architects +
Land Surveyors + Planners +
Environmental Specialists

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0	10/22/2012 FIRST ISSUE		
	ISSUE DATE DESCRIPTION		
DES	DWN	CHK'D	APP'D

PROJECT:
SALT MARSH CREATION AT RIVERS END PARK
NEW BEDFORD, MASSACHUSETTS

SCALE: 1" = 30' DATE: OCTOBER 22, 2012

SITE PLAN

B+T JOB NO.1714.10
B+T PLAN NO. 171410P033A-002
SHEET 2 OF 5