

Robin Grove Park Living Shoreline Project Conceptual Plan Elements

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The final conceptual plan for the Robin Grove Park Living Shoreline project along Monroe Bay in the Town of Colonial Beach includes the plan, shore photos, and typical cross-sections. In general, the sills will be constructed from rock with sand fill and planted with both high and low marsh grass.

On the Park's south facing shoreline, Sills 1 and 2 are designed to be +2 ft MLW high. The bank will not be graded, but trees on the bank may need trimmed/removed. Sills 3 and 4 would be slightly taller (+2.5 ft MLW) to protect the eroding point of the park. Because of the steep, exposed eroding bank at the tip, the bank will be graded. The shoreline behind Sill 3 would be graded on a 2:1 slope while the embayment between Sills 3 and 4 as well as behind Sill 4 would be graded at a 3:1 slope. This will provide easier recreational access to Monroe Bay. Concrete debris at the point will be removed during the construction process.

On the Park's west facing shoreline, two different types of structures are recommended. Just north of Sill 4, a wide marsh fringe still exists. In order to maintain the existing marsh and to reduce overall costs of the plan, we recommend a 3-bag oyster bag sill be placed at the edge of the marsh.

Farther north, the marsh fringe is gone, and the bank is being eroded. Sills 5 and 6 with crest elevations of +2 ft MLW are recommended. In addition, trees on the bank at Sills 5 and 6 may have to be removed/trimmed. They are shading the nearshore which will reduce the success of the planted marsh grasses. Also, at the time the final plan was completed, the northern property boundary for the Park along the west facing shoreline was not delineated. Sill 6 may need to be shortened if it is not entirely on public property. Construction access may be an issue for Sills 5 and 6 due to facilities on site and the wooded upland. This and the property boundary will need to be addressed prior to construction.



- Legend**
- Existing**
- × Spot Elevations
 - ▲ Benchmarks
 - Contours
 - Profiles
 - Ex. MLW
 - Ex. MHW

- Proposed**
- Sill
 - ▨ Grading
 - ▩ Sand Fill



Project Title
Robin Grove
Living Shoreline Project

Issued for
Conceptual Plan

Drawing Title
Plan and Baseline

Date: 14 July 2016 Scale: 1"=30'
Sheet: 1 of 2

Name	Northing (ft)	Easting (ft)	Elevation (ft MLW)
RG1	13,892,408.76	1,076,809.19	12.5
RG2	13,892,270.82	1,076,693.19	11.1
RG3	13,892,383.86	1,076,492.01	11.6

UTM, Zone 18N, NAD83, 1ft
Survey Date: December 15, 2015

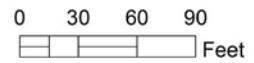
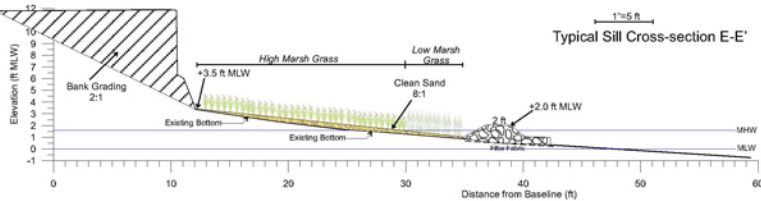
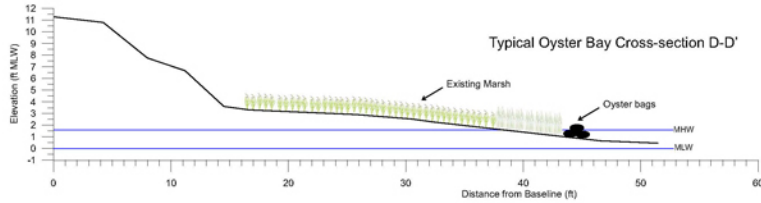
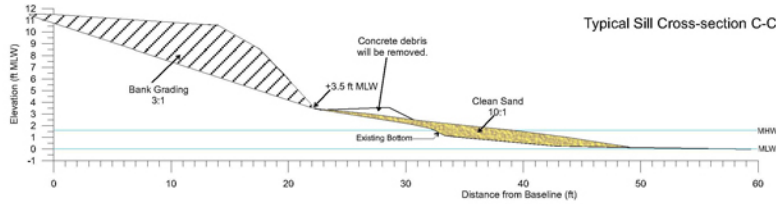
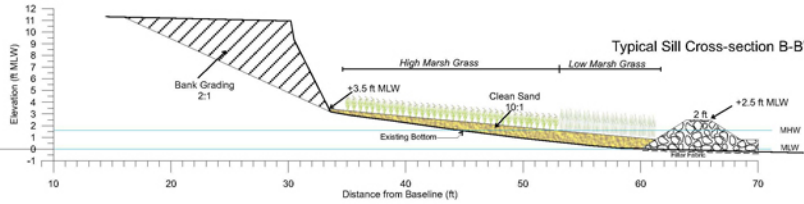
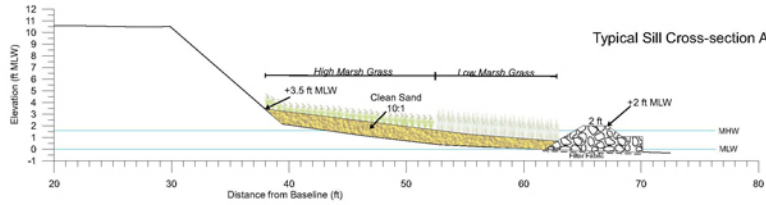


Photo Base: 2013 Virginia Base Mapping Program



1"=5 ft

Accepted Datums
Colonial Beach
1983-2001 Epoch
— MHW, +1.6 ft MLW
— NAVD88, +0.85 ft MLW
— MLW, +0.0 ft



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VIRGINIA INSTITUTE OF MARINE SCIENCE

Project Title	Robin Grove Living Shoreline Project	
Issued for	Conceptual Plan	
Drawing Title	Cross-sections	
Date	14 July 2016	Scale 1"=5'
Sheet	2 of 2	