Baker Design Consultants
Challenges, Opportunities, and Lessons learned

Living Shorelines Workshop
April 6, 2018
Miller Seawall
Miller Seawall
CHALLENGES

“...a stimulating task or problem....”

1. Retreating Shorelines
2. Sea level Rise Climate Change
3. Client Education
4. Economical Solutions
5. Regulatiory Requirements
OPPORTUNITIES

“...a good chance for advancement or progress....”

1. No shortage of Coastal Erosion
2. Developing Expertise
3. New Products
Toe Erosion
Sensitive soils
Steep Slopes
Pipe Discharge on Slope
Retreating Slopes
Trees on Unstable Slopes
Trees on Slope
Surficial Slides
Fringe Marsh Health and Contribution
Case Studies
Prouts Neck
Prouts Neck
Hamilton Beach

CONSTRUCTION (TYP)

12" THICK SLOPED MATTRESS

BASE FLOOD ELEVATION 12.0

BROADCAST TOPSOIL TO FILL VOIDS IN STONE, PLANT WITH CONSERVATION MIX (SEE NOTE 1)

SPRING TIDE ELEV. 6.3

TOE STONE PROTECTION (SUITEABLE BEACH STONE DISPLACED BY TOE EXCAVATION MAY BE USED)

FILL TO BE SUITABLE BACKFILL 6" (-)

TOE EROSION

SUBGRADE STABILIZATION
Hamilton Beach
Hamilton Beach
Hamilton Beach

**Top of Wall Varies with Section**

**Base Flood Elevation 12.0**

**Spring Tide Elevation 6.3**

- **Toe Stone Protection**: Suitable beach stone or displaced by toe excavation may be used.

- **Subgrade Stabilization**: Fabric US1540 by US Fabrics or approved equal.

- **18'' Thick Stacked Mattresses**: Refer to plans for wall limits.
Hamilton Beach
Hamilton Beach
Parkill Slope
Fringe Marsh Reconstruction
Fringe Marsh Reconstruction
Parkhill slope
Parkhill slope
LESSONS LEARNED
Equipment Access
Working in Tandem

04/21/2011
Landside Access
Landside Access
Access via the Beach
Access via Barge
Temporary Structures to Reduce Impacts
Build Your way in
Mattress Assembly
Stockpile Ahead
Take advantage of the weather
Complete Sections and then Move on
Vertical Drains
Horizontal drains
Thank you!

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