INDUSTRY DAY
CAP SECTION 206, AQUATIC ECOSYSTEM RESTORATION, BELLE ISLE STATE PARK, LANCASTER, VIRGINIA

Norfolk District Army Corps of Engineers
Friday, 17 July 2026
0900 – 1200
Waterfield Building

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DCR
Virginia Department of Conservation & Recreation

AGENDA

Topic	Moderated By
Welcome Remarks and Introduction Scope and Schedule Overview	Kristen Wynn, PMP Project Manager USACE
Design Overview	Kristina Theverapperuma Civil Engineer USACE
Environmental	Peyton Mowery Biologist USACE
Question and Answer	Kristen Wynn, PMP

WELCOME AND OPENING REMARKS

PROJECT OVERVIEW
SCOPE AND SCHEDULE

KRISTEN WYNN, PMP
PROJECT MANAGER USACE

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DISCLAIMER

The following presentation is preliminary information only.

- All information provided is subject to change
- Government is not currently soliciting proposals
- Both verbal and written answers are not binding: the circumstances of the proposed acquisition may change over time
- No part of Industry Day will be evaluated
- Your involvement in Industry Day is strictly voluntary. No costs shall be charged to the Government
- Feedback is encouraged and greatly welcomed
- Slides will be posted to Sam.gov no later than 7 days after Industry Day

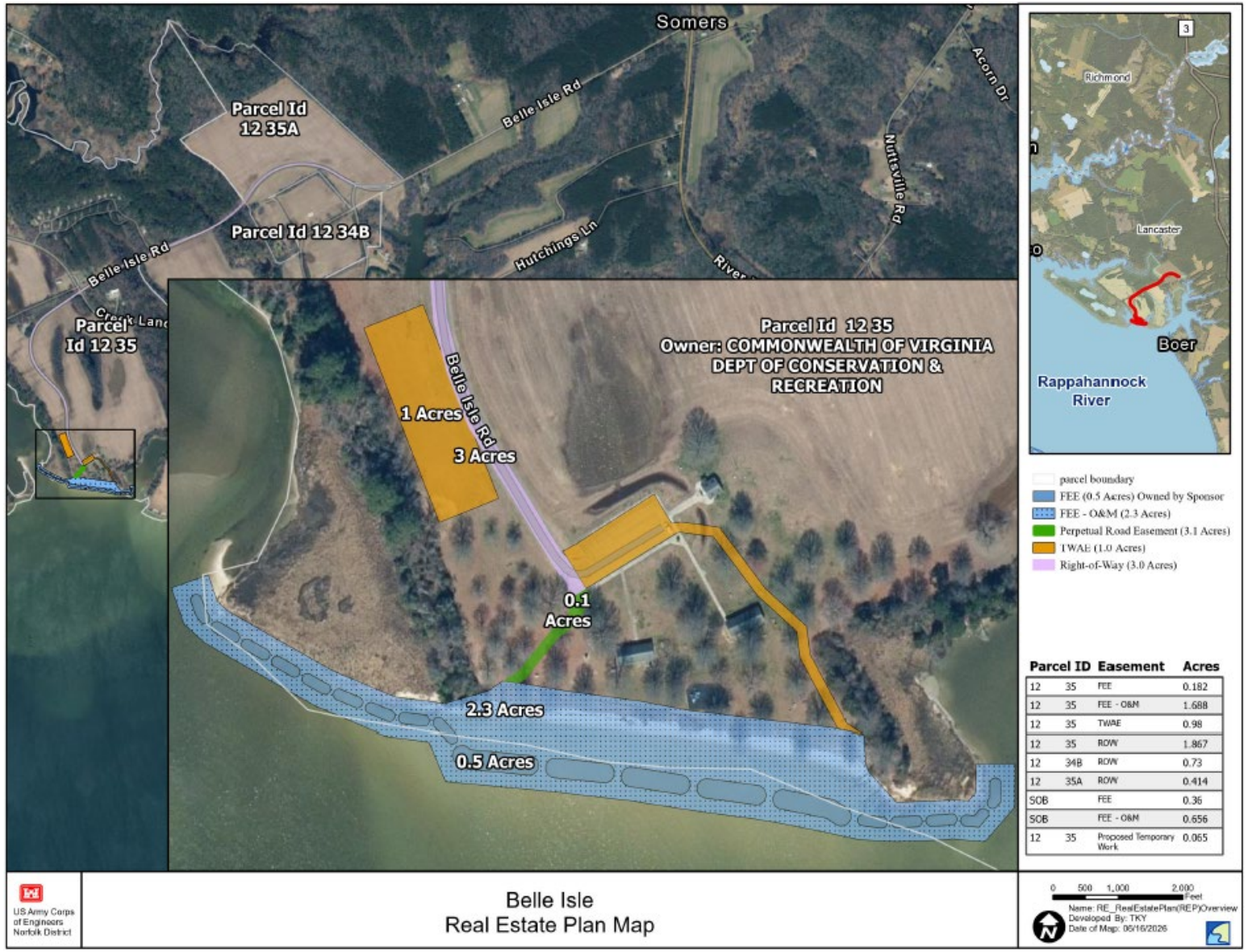
Restrooms are located by the building entrance and Security Desk.

GOALS

Today's Goal: To obtain insight and feedback from industry for a future ecosystem restoration project at Belle Isle State Park.

- Information gathering for anticipated construction using innovative, modern methods for construction in a high traffic public park.
- Solicit input regarding challenges such as site access, staging areas, environmental constraints, etc.
- Primary means and methods, challenges for construction, recommendations for risk/challenge mitigation.
- Gather actionable insights from the contracting community to help refine the contracting approach, risk allocation, performance metrics, and the formal solicitation documents prior to release.

PROJECT AREA



Parcel ID		Easement	Acres
12	35	FEE	0.182
12	35	FEE - O&M	1.688
12	35	TWAE	0.98
12	35	ROW	1.867
12	34B	ROW	0.73
12	35A	ROW	0.414
SOB		FEE	0.36
SOB		FEE - O&M	0.656
12	35	Proposed Temporary Work	0.065

EXISTING CONDITIONS

January 2026

Line Id	Shoreline Loss (Ft)
1	81
2	135
3	73
4	58
5	128

January 2026

PROJECT AUTHORITY AND OBJECTIVES

Continuing Authorities Program (CAP) 206 – Aquatic Ecosystem Restoration

- Under the authority provided by Section 206 of the Water Resources Development Act of 1996, the USACE may plan, design and build projects to restore aquatic ecosystems for fish and wildlife.

- Projects must:
  - improve the quality of the environment;
  - be in the public interest; and
  - be cost-effective

Objectives

- Restore native oyster reef habitat to increase the oyster population and increase fish abundance and diversity.

- Restore tidal wetland shoreline habitats that support native wetland vegetation and the associated invertebrate community including native Atlantic ribbed mussel habitat.

- Restore the river-shoreline interface that provides important stopover and foraging habitat for migratory shoreline and wading avian species.

- Conduct habitat restoration that support a self-sustaining estuarine system

MANAGEMENT MEASURES

Wetland Restoration: restore tidal wetland habitat

- Sandfill and native wetland vegetation planting such as *Spartina alterniflora* and *Spartina patens*
- Expected to be paired with oyster restoration to provide toe protection

Bank Restoration: restore bank/beach habitat

- Sandfill and native beach grasses such as *Spartina patens* and *Ammophila breviligulata*
- Expected to be paired with oyster restoration to provide toe protection

Oyster Restoration: restore native oyster (*Crassostrea virginica*) habitat

- Placement of artificial substrate such as rock or pre-cast reef structures
- Optimize design and placement for both oyster habitat and wave attenuation for the wetland and bank restoration

Mussel Restoration: restore and improve habitat quality for native Atlantic Ribbed Mussels (*Geukensia demissa*)

- Existing population within the existing wetlands
- Paired with wetland restoration measures

ANTICIPATED SCHEDULE

Key Action	Scheduled
Design Complete	AUG 2027
Solicitation	APR 2028
Award	AUG 2028
Construction Start	Duration 12 to 18 months
Construction Complete	Winter 2030

DESIGN

KRISTINA THEVERAPPERUMA
CIVIL ENGINEER USACE

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WEST WETLAND PLAN VIEW

Key Features

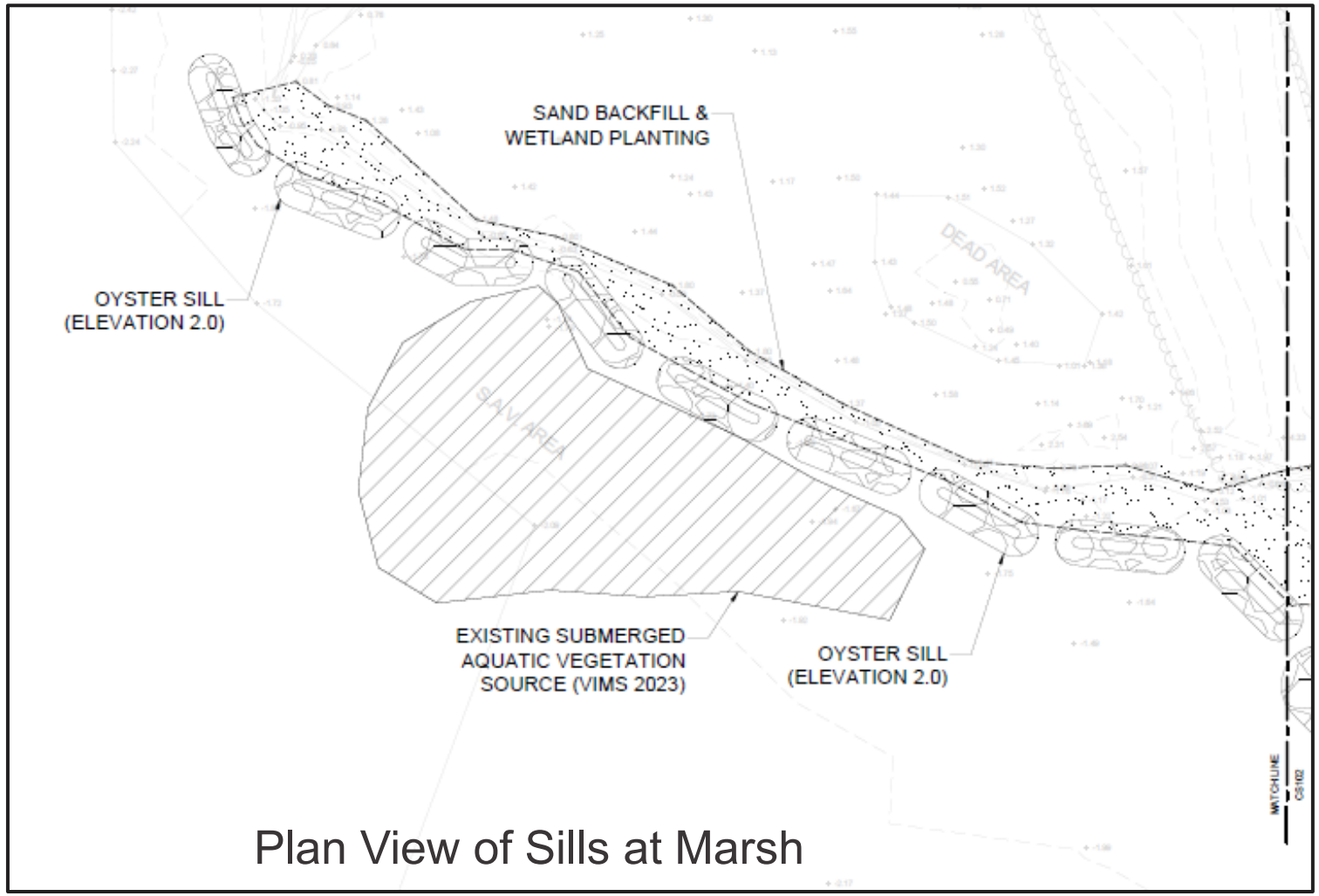
- Sill Elevation: 2.0
- Top Width: 3.5’
- VDOT Class II Riprap

Additional Features:

- Sand Backfill (between sills and marsh)
- Native Wetland Planting (*Spartina alterniflora, Spartina patens,* etc.)

Constraints:

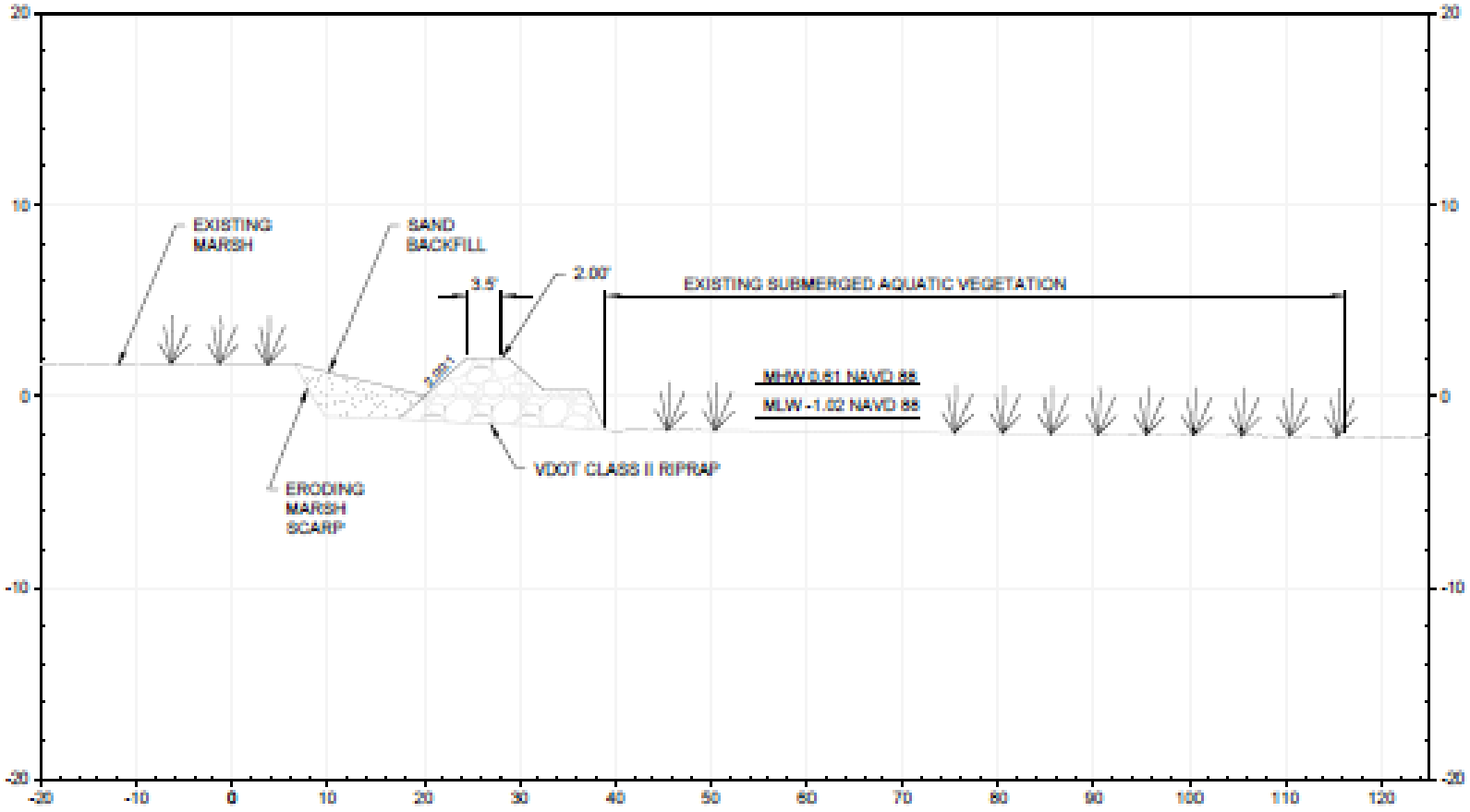
- Avoid Impacts to Existing Submerged Aquatic Vegetation
- Avoid impacts to Existing Marsh



Plan View of Sills at Marsh

WEST WETLAND SECTION VIEW

Marsh Toe being Protected



Section View of Sill at Marsh

CENTRAL SHORELINE PLAN VIEW

Key Features

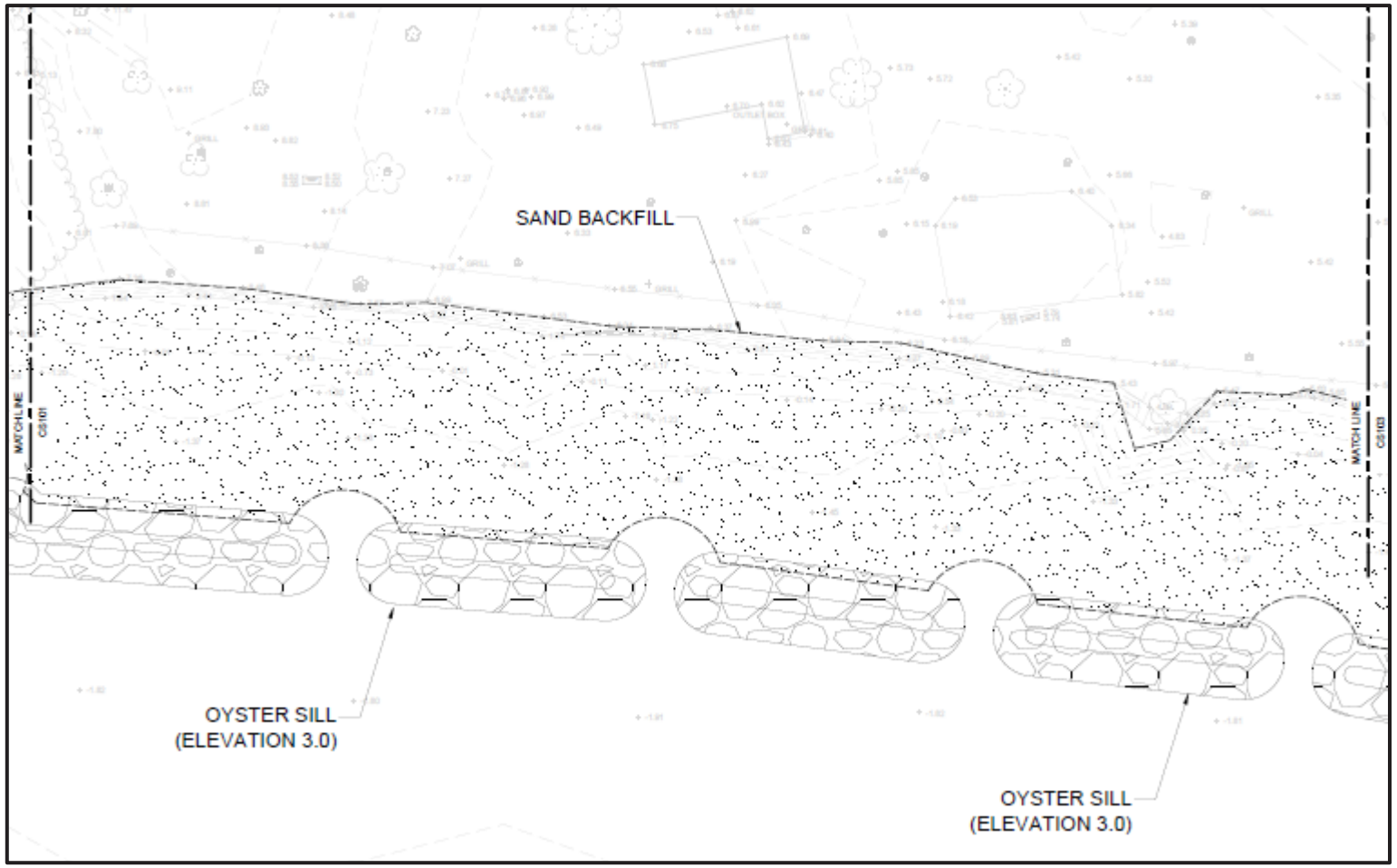
- Sills: Elevation: 3.0
- Top Width: 6.0’
- VDOT Class III Riprap

Additional Features:

- Sand Backfill (between Sills and existing Embankment)
- Native Beach Planting (*Spartina patens,* etc.)

Constraints:

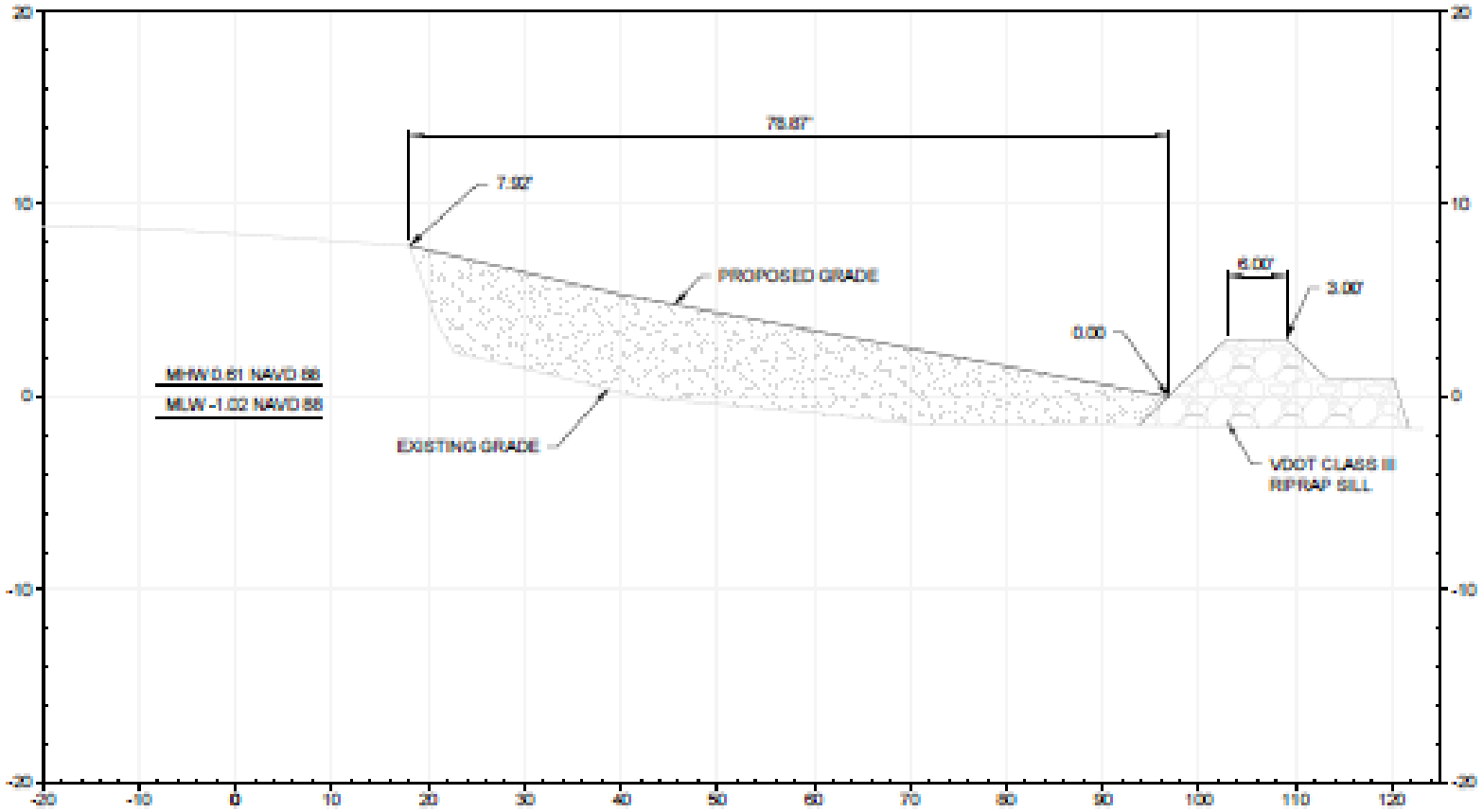
- Avoid Grading or Disturbing Embankment due to Cultural and Historical Features



Plan View of Sills at Embankment

CENTRAL SHORELINE SECTION VIEW

Embankment to be Protected



Section View of Sill at Embankment

10 MINUTE BREAK

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ENVIRONMENTAL CONSIDERATIONS

PEYTON MOWERY
BIOLOGIST USACE

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ENVIRONMENTAL RESOURCES

Threatened and Endangered Species (with potential to occur)

- Monarch Butterfly
- Northern Long-eared Bat
- Tricolored Bat
- Atlantic Sturgeon
- Shortnose Sturgeon
- Green Sea Turtle
- Kemp's Ridley Sea Turtle
- Leatherback Sea Turtle
- Loggerhead Sea Turtle

Other Important Habitat Resources

Wetlands

Atlantic Ribbed Mussels

Oysters

SAV

ENVIRONMENTAL COMPLIANCE

Anticipated Permits to be Obtained by USACE/VDCR

- Virginia Marine Resources Commission (VMRC)
- Virginia Water Protection (VWP) Permit

Possible Time of Year Restrictions (TOYRs)[1]

- In-Water Work
  - Anadromous Fish Use (FEB 15 – JUN 30)
  - SAV (MAR 1 – JUL 15)
- Tree Clearing
  - Northern Long-eared and Tricolored Bats (APR 1 – SEP 30)

[1]All TOYR to be determined following environmental consultations and permitting

QUESTIONS

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QUESTIONS

- What is your recommended construction sequencing for this project?
- Is this project more feasible to conduct by barge or land or both? Given the shallow bathymetry of the project site, what is the maximum draft of the barges and tugs you would deploy, and how do you plan to operate during low tide cycles?
- How do you propose staging and transporting thousands of tons of stone and sand fill, in the upland staging areas?
- How would you propose access to the east wetland area?
- What GPS-guided equipment or specialized marine excavators do you use to ensure precise placement of oyster sills within the permitted footprint?
- Have you seen issues with supply of native wetland vegetation (e.g., *Spartina alterniflora*) on other projects?
- What would be your best management practices to preserve the existing mussels on site for incorporation to be replanted back into the sills?
- Period of performance recommendation?

NORFOLK DISTRICT SMALL BUSINESS PROGRAM

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