



Village of
BELLPORT



Village of Bellport Public Information Session

November 14, 2024

May 26 2023

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Agenda

- **Introductory Presentation**

- Team Introduction
- Project Introduction
 - Goals, Purpose and Timeline
- Existing Conditions
- Basis of Design
- Preliminary Concept Design
- Overview of the Interactive Informational Session

- **Interactive Informational Session**

- Comment Synthesis
- Next Steps



Team Introduction



The Project Team



Carlos Vargas

Project Manager /
Landscape Architecture Leader



Neville Reynolds, PWS

Principal-In-Charge
Corporate Coastal Practice Leader



Michael Mann, PE

Senior Coastal Engineer



Christiana Kastalek

Environmental Planner/
Community Outreach Administrator



Patchogue Living Shore Line – Before



Patchogue Living Shore Line – After

Project Introduction



Project Introduction

- Bellport Bay Infrastructure Improvements
- The Village received a *Community Project Funding Grant* from the U.S. Department of Housing and Urban Development (HUD) for \$3,730,000
 - The grant requires a match from the Village
 - 75%: \$2,800,000 (HUD)
 - 25%: \$933,000 (Village)



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Purpose and Goals

Purpose

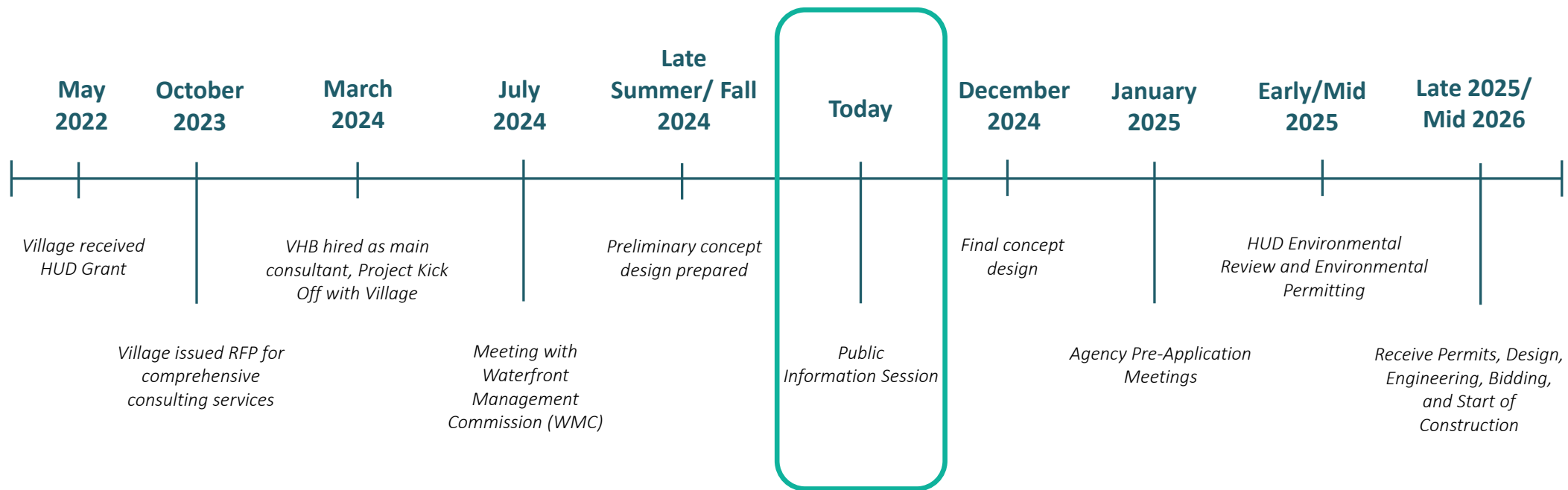
Improve the existing Bellport Bay infrastructure with safety, navigational, and accessibility upgrades to the Village Marina with resilient solutions to create a tranquil harbor for the First Responder and resident vessels, while maintaining the marina's current functionality and use.

Grant Requirements and Project Goals

1. Infrastructure Improvements
2. Improve Safety
3. Improve Navigation
4. Improve Accessibility



Project Timeline



Existing Conditions



Bellport Marina

LOA Range		Count
15	20	55
20.5	25	75
25.5	30	14
30.5	35	3
35.5	40	0
40.5	100	0
Total		147

Estimated Max. Boat
Slips ~160-170

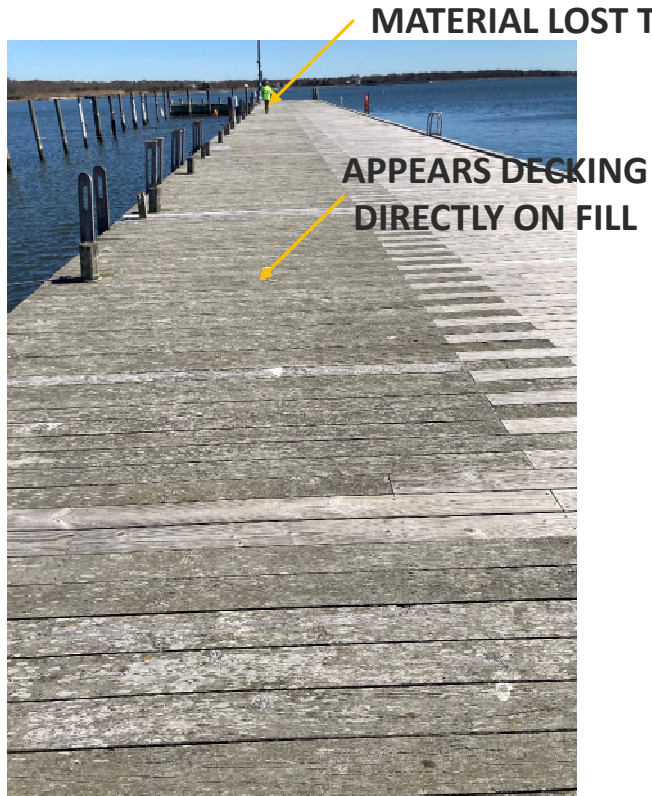
McLaren survey
results from May 2024
Survey

*References NAVD88
(convert to MLLW by adding 0.7 feet)



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Existing Conditions



ROCK DOCK

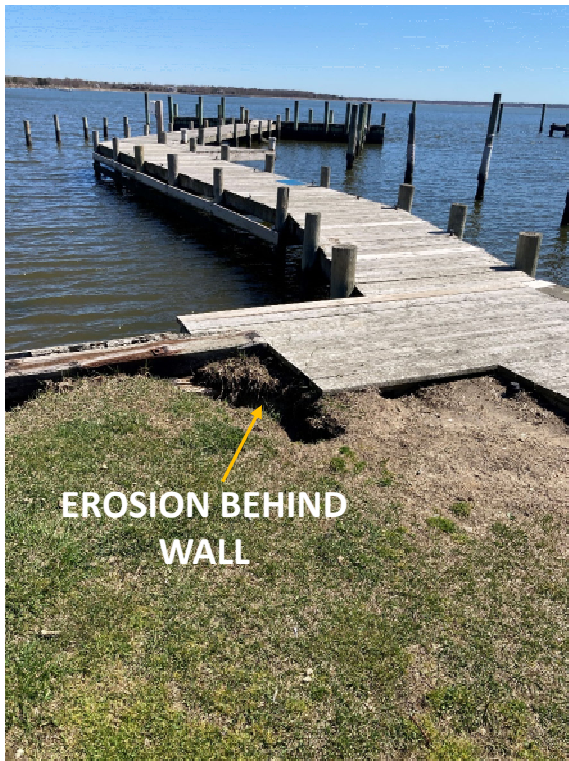


STICK DOCK



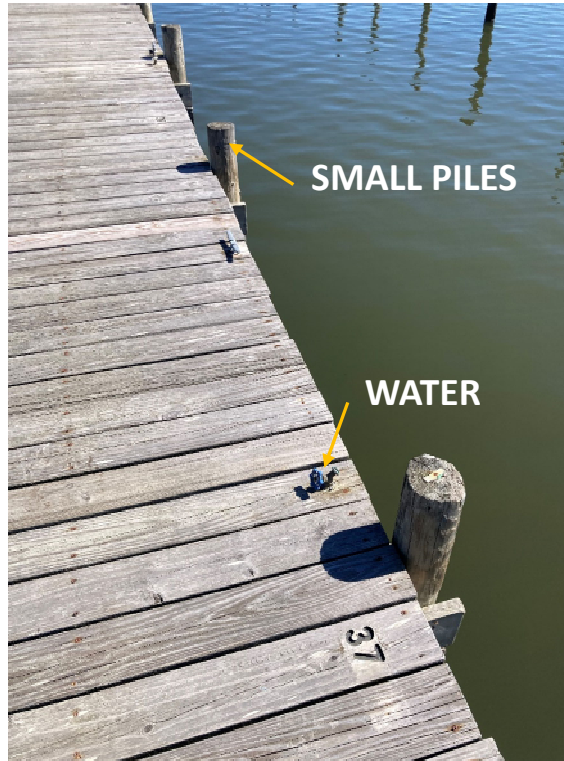
BOAT RAMP

Existing Conditions



EROSION BEHIND
WALL

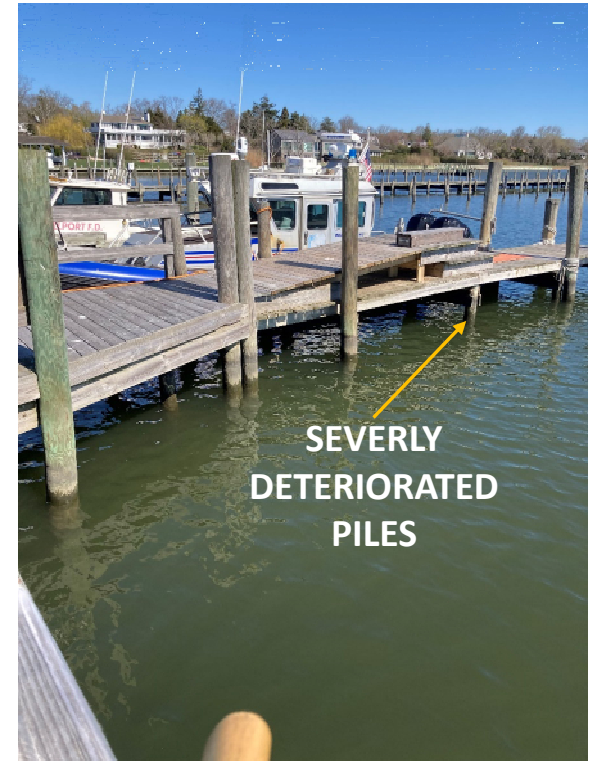
BOARDWALK



SMALL PILES

WATER

STICK DOCK



SEVERLY
DETERIORATED
PILES

EMERGENCY VESSEL DOCK

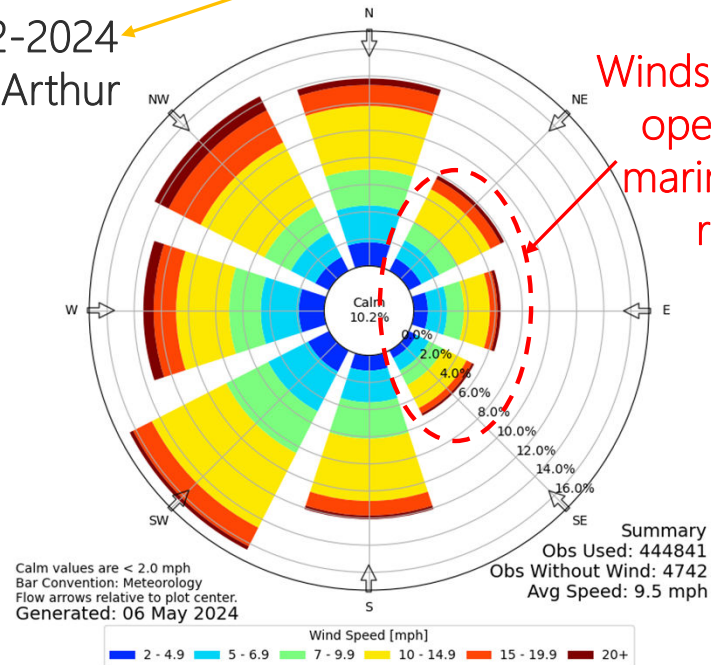
Basis of Design



Environmental Data Review - Winds

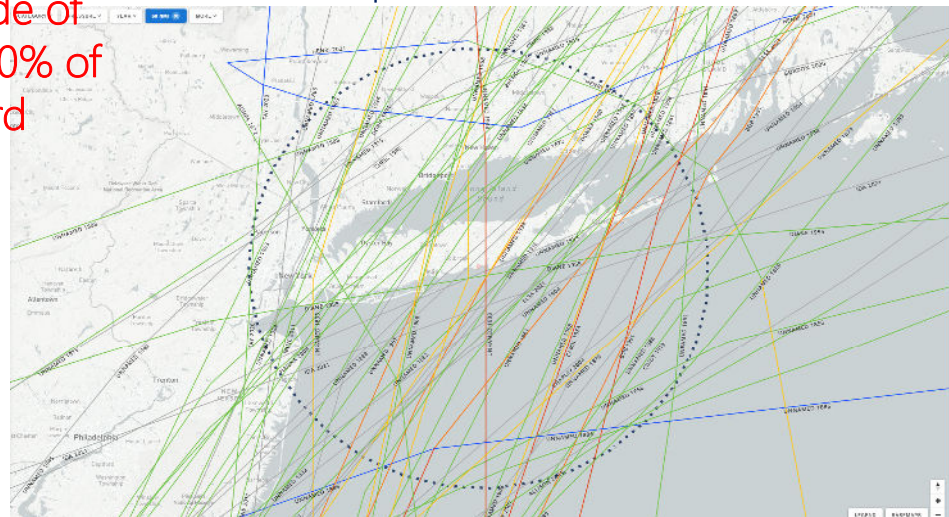
Windrose Plot for [ISP] ISLIP/MACARTHUR
Obs Between: 31 Dec 1972 07:00 PM - 06 May 2024 12:56 AM America/New_York

1972-2024
MacArthur



Daily Winds Near the Sites
(used to estimate daily wind driven waves)

17 named storms have passed
with 60 nautical miles of
Bellport since 1985



Extreme Winds & Hurricanes
(used to estimate largest wind wave for
design loads)



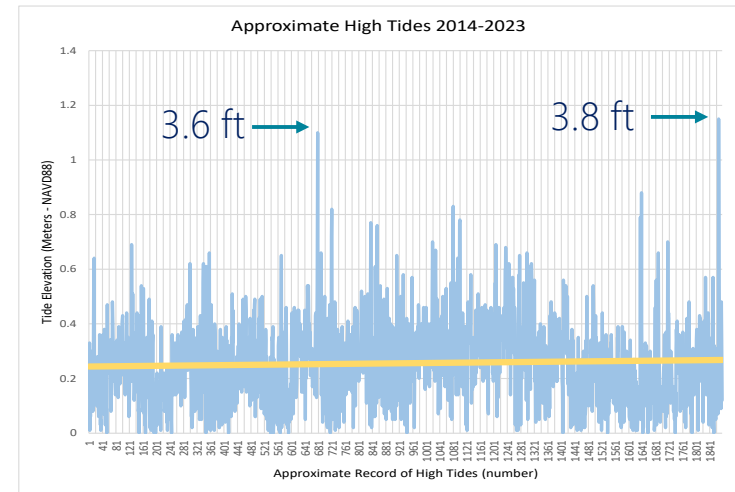
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Environmental Data Review – Water Levels

Datum	Abbreviation	Patchogue (FT-NAVD88)
Mean Higher-High Water	MHHW	0.7
Mean High Water	MHW	0.5
North American Vertical Datum of 1988	NAVD88	0.0
Mean Low Water	MLW	-0.6
Mean Lower-Low Water	MLLW	-0.7

→ 0.84 ft

Datum	Abbreviation	Smith Point (FT-NAVD88)
Mean Higher-High Water	MHHW	0.7
Mean High Water	MHW	0.6
North American Vertical Datum of 1988	NAVD88	0.0
Mean Low Water	MLW	-0.6
Mean Lower-Low Water	MLLW	-0.7



High Tides from 2014-2023 at Bellport Marina (Stony Brook University)

Daily Tidal Data (NOAA)

Return Interval	Elevation (FT-NAVD88)	Elevation (FT-MLLW)
100-YR	5.2	5.9
50-YR	4.8	5.5
25-YR	4.5	5.2
10-YR	4	4.7

Extreme Water Levels (Storms)

Year Range	SLR Inches	SLR Feet	Projected MHW Feet, NAVD88
2020s	8	0.67	1.17
2050s	21	1.75	2.25
2080s	39	3.25	3.75
2100	47	3.92	4.42

Sea Level Rise (NY DEC)



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Environmental Data Review – Waves



Fetch

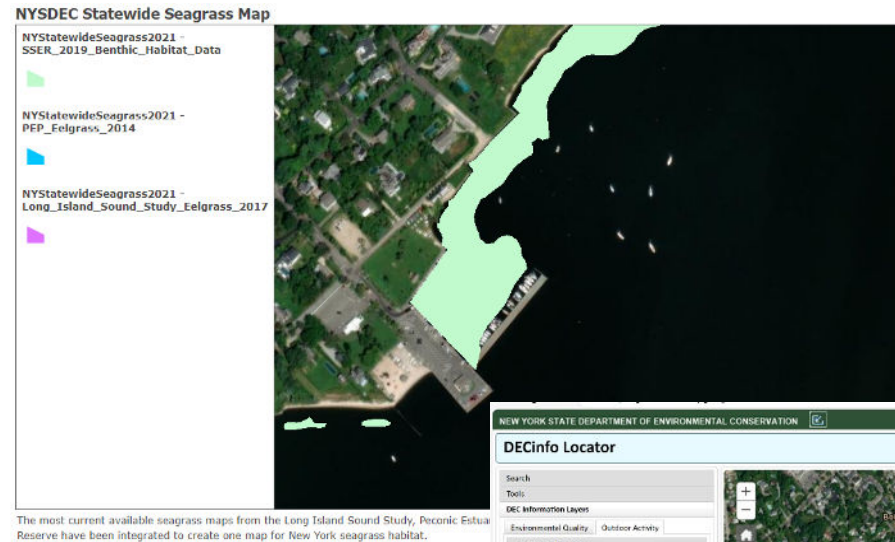
(used to determine wind-generated wave heights)



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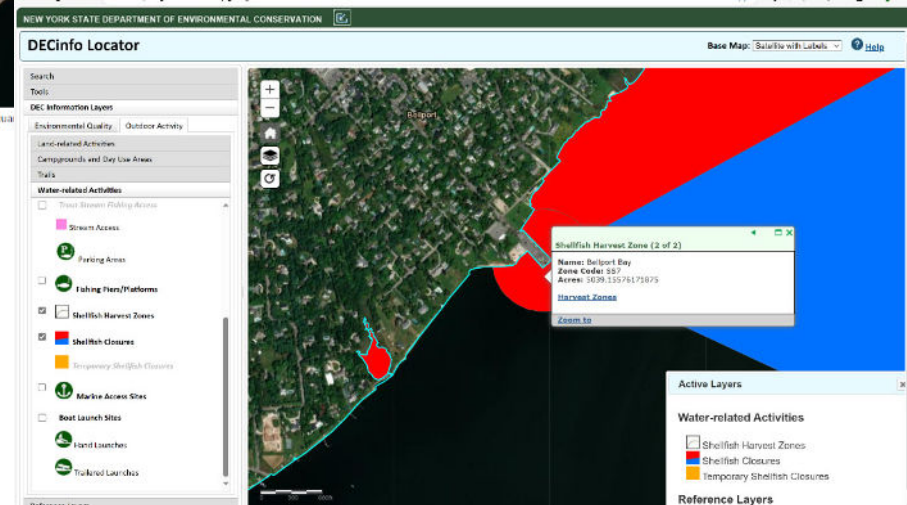
Resources in Vicinity of the Site

Benthic Habitat
(2021 Statewide Survey)



The most current available seagrass maps from the Long Island Sound Study, Peconic Estuary Reserve have been integrated to create one map for New York seagrass habitat.

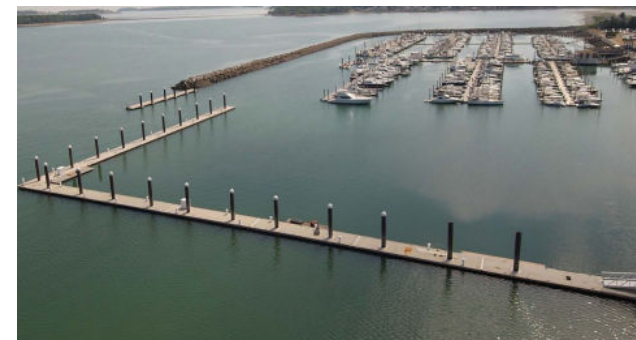
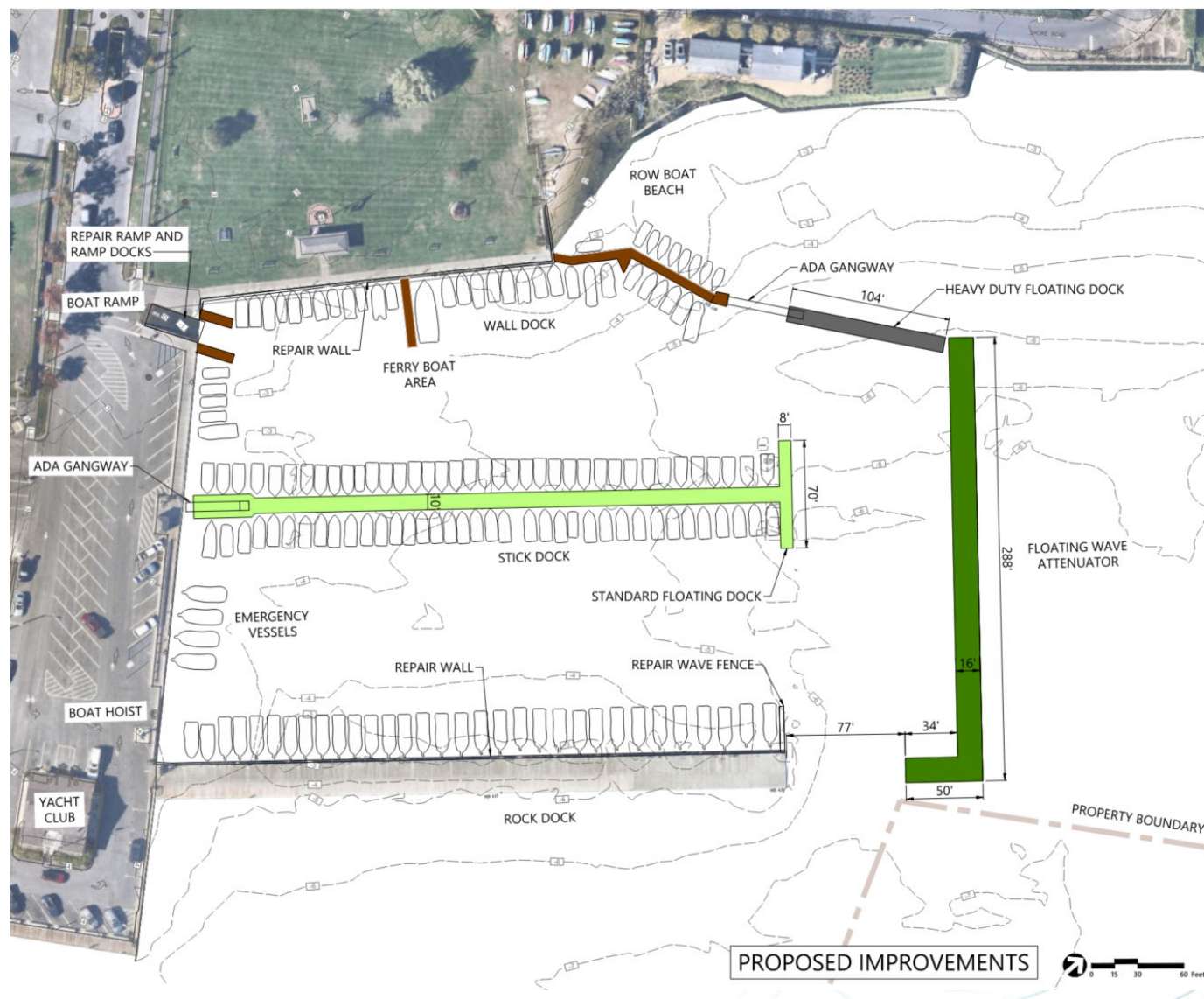
Shellfish Closure Zone



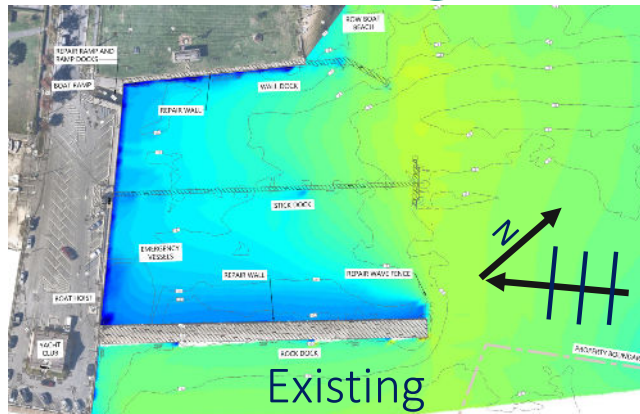
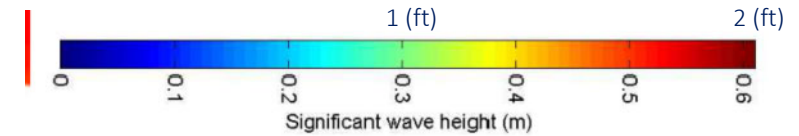
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Preliminary Concept Design

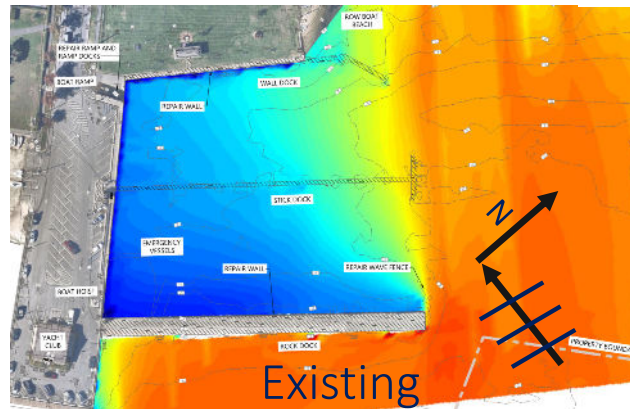




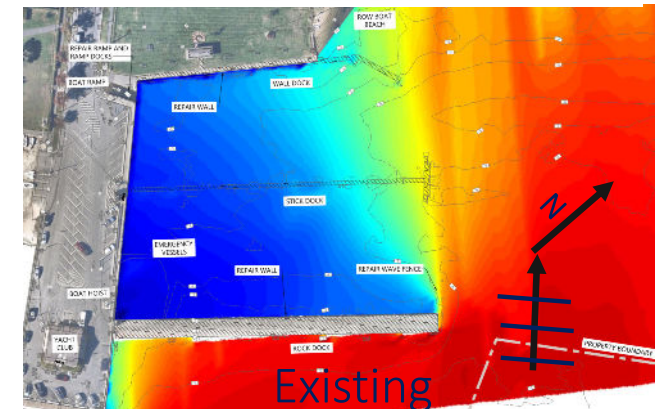
Wave Height Diffraction



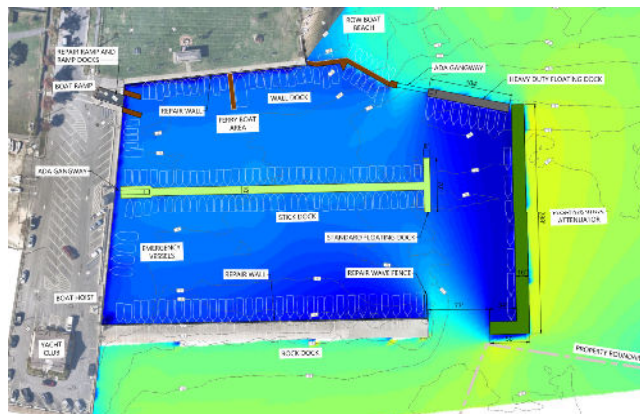
Waves from 45 degrees



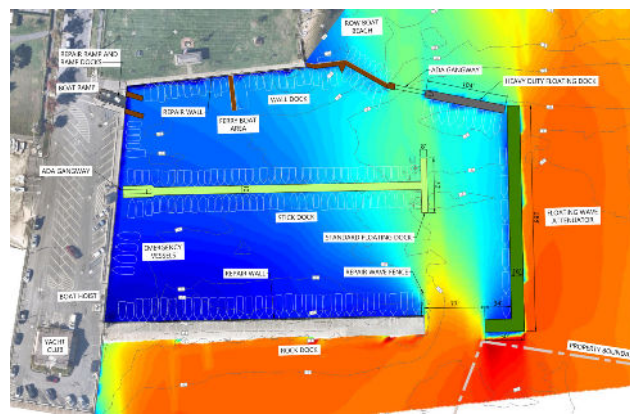
Waves from 90 degrees



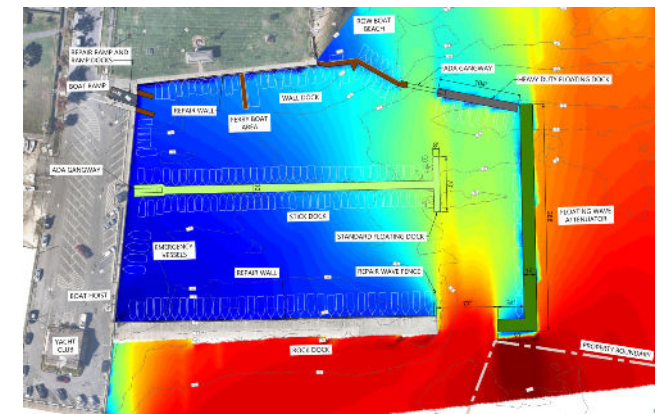
Waves from 125 degrees



Proposed

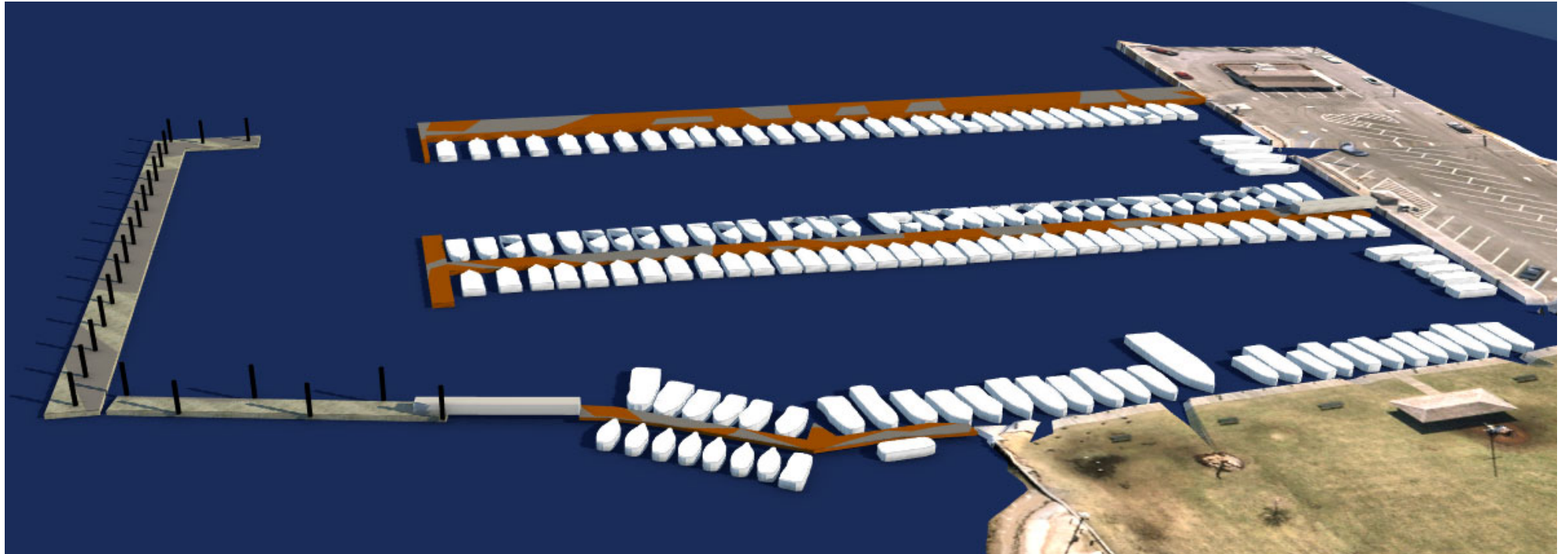


Proposed



Proposed

Attenuator Conceptual Rendering



Today's Interactive Activity

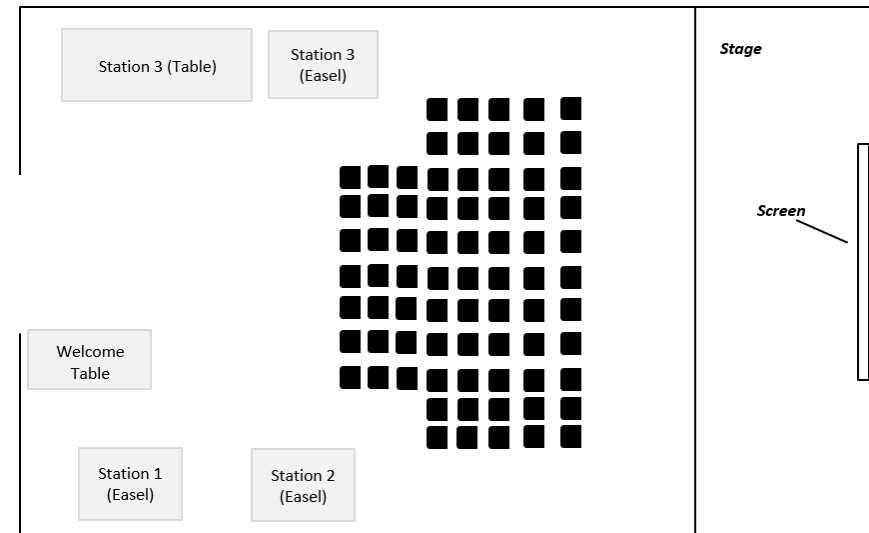


Today's Interactive Activity

- At this part in the process, a preliminary conceptual design has been prepared, and the project team seeks input and feedback to inform the final redesign of the marina
- In order to do so, we ask that participants circulate through the stations to learn more about the project purpose, goals and timeline, and provide input and feedback on the existing and proposed conditions of the Bellport Marina and surrounding area. Stations will be equipped with project boards and facilitators, and floaters will be available to answer questions throughout the room
- **Three Stations**
 - Station 1: Purpose, Goals and Project Timeline
 - Station 2: Existing Conditions
 - Station 3: Proposed Conditions

Rules

- All questions are welcome
- Please make room for others to speak
- Be sure to visit each station



Survey

- Recording feedback:

- A survey was prepared to collect feedback and input on the existing and proposed conditions of the marina and surrounding area. To better understand the users of these areas, some background questions are included
- The survey has been made available via hard copy and virtually. The online survey has been made available beginning today and will remain open until 5pm Thursday, November 21
- The feedback and input received will assist the Village in better understanding how the waterfront is being used and will ultimately, inform the final redesign of the marina
- Be sure to drop off your survey at the sign-in table before you leave, if you have a hard copy



Village of Bellport – Bellport Marina

Redesign Public Informational Session Survey

The Village of Bellport has received a grant from the U.S. Department of Housing and Urban Development (HUD) for the redesign of the Bellport Marina. At this part in the process, a preliminary conceptual design plan has been prepared, and the project team seeks public input and feedback to inform the final redesign of the marina.

This survey has been made available online and will remain open until 5pm on November 21st.

QUESTION 1: Where do you reside?

- a. Village of Bellport
- b. Town of Brookhaven
- c. Other: _____

QUESTION 2: If you live in the Village, are you a full time or part time resident?

- a. Full time
- b. Part time

QUESTION 3: Do you currently have a boat slip in the marina?

- a. Yes
- b. No

QUESTION 4: If no, are you currently on the waitlist for a boat slip?

- a. Yes
- b. No
- c. N/A

QUESTION 5: If you're not on the waitlist, are you thinking about purchasing a boat within the next 5 years and docking it at the Bellport Marina?

- a. Yes
- b. No
- c. N/A

Existing Conditions

QUESTION 6: How do you use the marina and surrounding area today? (check all that apply)

- ☐ Dock my boat here
- ☐ Dock my boat at the transient slips
- ☐ Crabbing
- ☐ Fishing
- ☐ Kayaking
- ☐ Take the Ho Hum Beach Ferry
- ☐ Member of the Bellport Bay Yacht Club
- ☐ Member of the Bellport Bay Sailing Foundation
- ☐ Frequent Row Boat Beach
- ☐ Frequent Osborn Park
- ☐ Frequent Rock Dock and Main Dock amenities (i.e. Bench
- ☐ Attend events at/utilize Bellport Bandshell

Other: _____

QUESTION 7: If you take the Ho Hum Beach Ferry, how frequently do you take it during the season?

- a. I don't take the ferry
- b. 1-10 times
- c. More than 11 times

QUESTION 8: Are you satisfied with the frequency of the ferry trips?

- a. Yes
- b. No
- c. Other: _____

QUESTION 9: How safe do you feel when launching your boat into the marina?

QUESTION 10: How safe do you feel when entering and exiting the marina in your personal boat?

QUESTION 11: If launching from Row Boat Beach, how safe do you feel when launching your watercraft from the beach?

QUESTION 12: What other existing issues with the existing marina are there that have not been already identified? (refer to Station 2)

Proposed Conditions

QUESTION 13: What overall enhancements should be considered in the redesign of the marina?

QUESTION 14: Specifically, what safety features should be considered in the redesign?

QUESTION 15: What features (e.g., safety, best management, etc.) are missing in the preliminary conceptual design for the redesign of the marina (fingers, floating docks)?

Comment Synthesis



Next Steps

1. Survey closes at 5pm on November 21st
2. Final concept design based on public comments is to be prepared
3. Agency pre-application meeting request
4. HUD environmental review (not contracted yet)



Thank You!



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