



MAKE CAMBRIDGE RESILIENT STAKEHOLDER MEETING NOTES

August 5, 2025
1:30- 3:00 PM

The Make Cambridge Initiative serves as an umbrella for multiple common efforts & grants:

- Flood Mitigation Plan & Concept Design
- Flood Mitigation Project (Phase 1 Design)
- Community Development
- NFWF Habitat Enhancements & Green Stormwater Management

Virtual meeting conducted. Stakeholders and invited guests in attendance:

Name	Organization/Department
Larry White	Strategic Programs Development, LLC
Wayne Suggs	City of Cambridge DPW Director
Mayor Lajan Cephas	City of Cambridge - Mayor
Glenn Steckman	City of Cambridge - Manager
Brian Herrmann	City of Cambridge – Planning Director
Jimmy Windsor	Dorchester County- Emergency Management
Dr. Kenny Rose	UMCES – Horn Point
Theresa Davenport	UMCES – Horn Point
Stephen Liu	Maryland Department of the Environment
Bryan Bay	Maryland Department of the Environment
Leah Sheppard	Maryland Department of Natural Resource
Thomas Laczko	USACE Baltimore District
Megan Spindler	USACE Baltimore District
Amanda Pollack	Center for Watershed Protection
Allison Lee	Center for Watershed Protection
Megan Barniea	BayLand Consultants
Anna Johnson	BayLand Consultants
Sepehr Baharlou	BayLand Consultants
Virginia Smith	SP&D

The meeting focused on updates to the flood mitigation design project, highlighting community collaboration, ongoing outreach efforts, and strategies for enhancing stormwater management and habitat.

Agenda

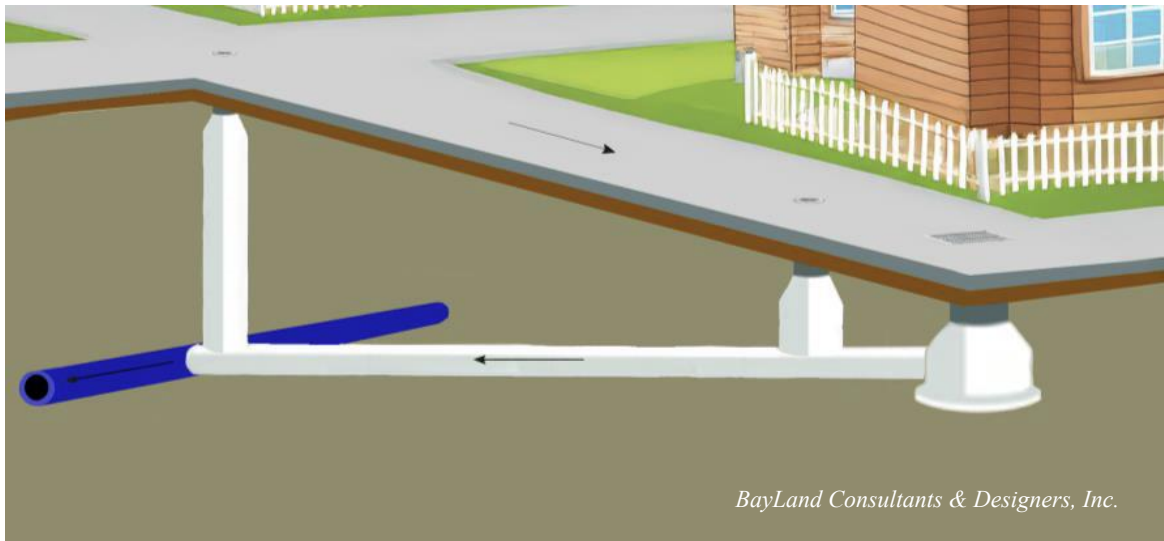
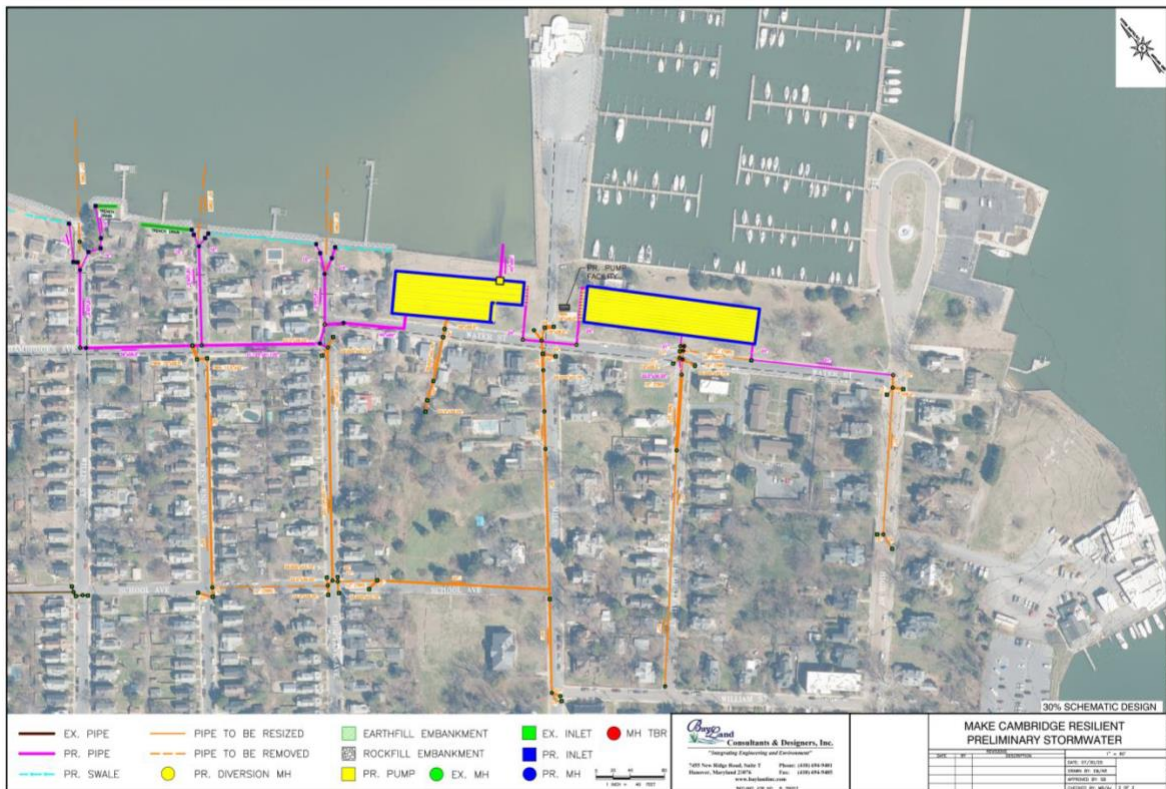
- 30% Design Embankment and Living Shoreline – Anna Johnson, PE, CC-P, Project Engineer, BayLand Consultants & Designers, Inc.
- 30% Design Stormwater Management – Megan Barniea, P.E., Senior Project Manager, BayLand Consultants & Designers, Inc.
- NFWF Scope of Work - Dr. Kenneth Rose, Horn Point Laboratory, University of Maryland Center for Environmental Science

Larry White, Project Manager introduced new meeting attendees and provided a brief overview of the project.

Flood Mitigation Project Phase 1 Design

Project Update: The design team has been working hard these past few months following the preliminary alignment and incorporation of public review comments.

- 30 % design review and feedback is being sought from both the stakeholder group and the public. In addition to this stakeholder group meeting, a public meeting has been scheduled for September 9, 2025, at the Dorchester County Library-Cambridge Branch .



- Tide gates are included in the design at the two major storage locations, as well, at gravity outfalls.
- The design of Gerry Boyle Park into a Green Stormwater Management site under our NFWF Grant will serve as our stormwater treatment and storage site on the west end of the project. It includes wetland features to allow for the temporary storage of stormwater as an alternative to relying on underground storage tanks. Thus, our Phase I preliminary design is conveying stormwater collected from Willis St to the west end of the project to Gerry Boyle Park where stormwater will be stored overnight allowing nutrient and contaminants to settle out and then slowly released to the living shoreline the next day. This initiative is totally funded under our NFW. In the event of larger storms, pump station(s) activate.

- Project team members met with park users, including the general public, organizers of Ironman/Eagleman and the Power Boat Racing Association to review the preliminary alignment. Comments provided from these meetings were incorporated into the 30% design.
- Larry White indicated that the 30% design for this project area has been significantly changed from the concept design. The design changes improves efficiency, eliminating the need for eight current discharge- outfalls from Hambrooks to the Choptank River. These changes have increased the budget, however necessary, as they are best practices.



National Fish and Wildlife Foundation (NFWF)

Kenneth Rose And Theresa Davenport, Horn Point Laboratory, University Of Maryland Center For Environmental Science

The National Fish and Wildlife Foundation (NFWF) – National Coastal Resilience Fund is providing funding for the habitat restoration project. NFWF is the nation’s largest private conservation foundation.

- The project aims to guide the design of the living shoreline and its stormwater discharge to maximize fish and wildlife habitat and improve water quality discharging to the living shoreline.
- Three main goals for NFWF grant portion of the project:
 1. Maximizing restoration of fish and wildlife habitat of the living shoreline project design
 2. Maintaining and enhancing the habitat benefits of the living shoreline by capturing and treating stormwater before it discharges to the river
 3. Engaging stakeholders in design of the ecological, environmental, & recreational features
- Dr. Rose discussed some of the design considerations, including:
 - o Tidal openings of rock sill
 - o Shore orientation
 - o Size and depth of rock sill
 - o Rip-rap and breakwaters at the toe of living shoreline
 - o Vegetation density and seasonality on marsh
 - o Slope of the vegetation bed

- Location and 3-d shape of oyster reefs
- Different key species and their habitats will be determined based on engagement with a variety of people.
- Habitat suitability assessments will be conducted using models and data to determine the quality and quantity of habitat for different species.
- The project will involve community engagement and use decision analysis to inform the design process.
- Scalability and transferability are important components of the project.
- Kenneth Rose & Theresa Davenport are currently reviewing 20+ yrs. of DNR survey data. The next step includes additional sampling in the project area by UMCES, which will occur in September. The field sampling entails:
 - Beach Test Seine, the same way as DNR – comparable to 20+ yrs. of data.
 - Within the project footprint
 - Use of Go Pro transects to look at viability of oysters.
- One of the results of this work will include a populated data table, Square meters of suitable-weighted habitat. For each species a habitat model is created, the area is added up. Basically, if the area is weighted high, the habitat score is good in a cell and down weighted when bad, resulting in number per square meters of suitable weighted habitat for each species.

Square meters of suitable-weighted habitat

Species	Stage	Now (Losses)			With Living Shoreline (Gains)						
		Open	Bulk-head	Shore rip-rap	SAV	Marsh	Protected open	Beach	Offshore Rip-rap	Oyster	Pond

Area x Suitability of each cell, summed over cells in Delft3D grid

(a) Region altered by living shoreline (losses)

(b) Region influenced by the living shoreline (gains)

Plus,

Screen stormwater discharge into living shoreline

Screen for adequate connectivity

Assess resilience of living shoreline and its habitats

Next Steps

- Distribution of Stakeholder Group Meeting Notes & Meeting Slide Deck
- Long Wharf Park Area Public Meeting – September 4, 2025
- 30% Design Public Meeting – September 9, 2025
- 60% Design – Fall/Winter 2025



Make Cambridge Resilient
Flood Mitigation Project
Project Schedule - December 3, 2024

