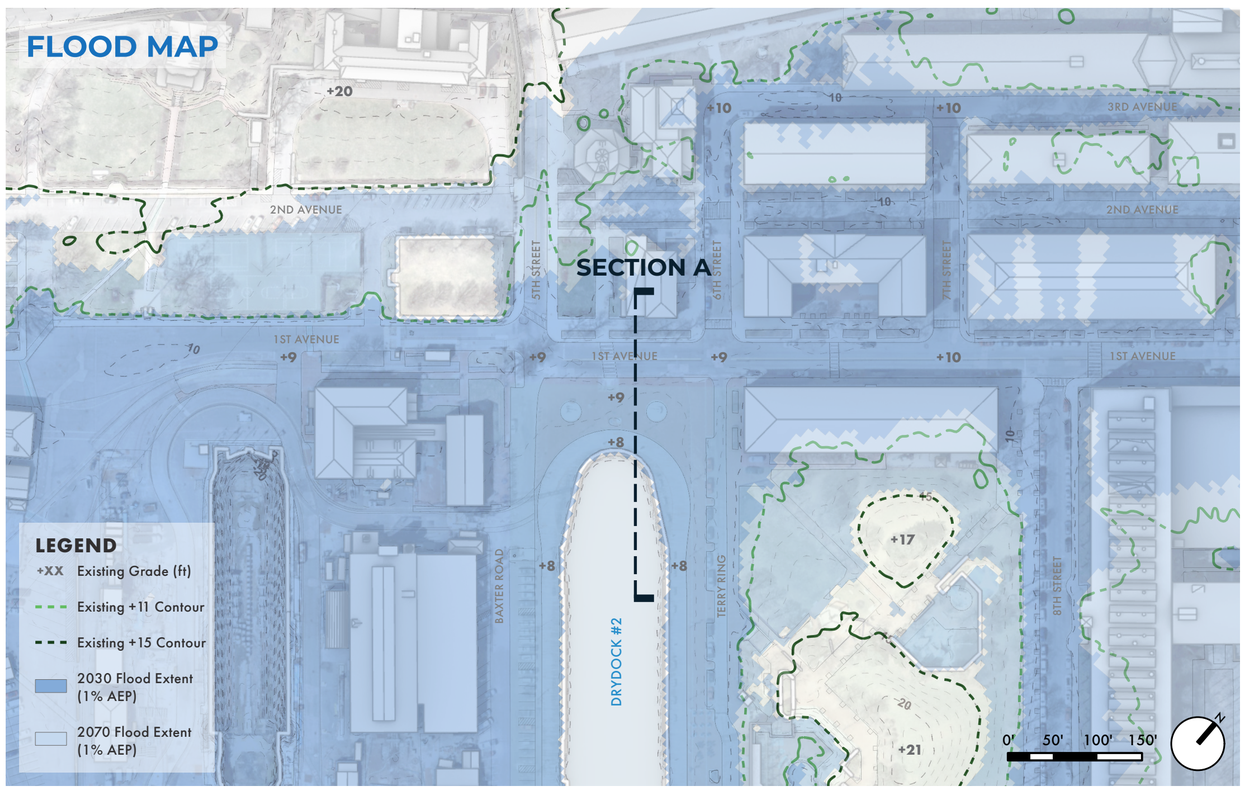
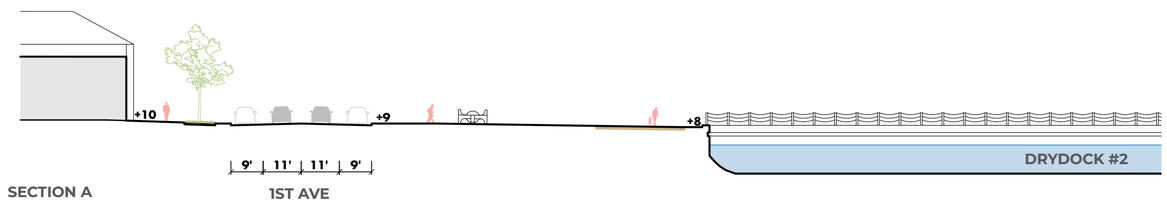
FLOOD RESILIENCE MITIGATION PLANNING, FEASIBILITY & DESIGN STUDY FOR CHARLESTOWN NAVY YARD / LITTLE MYSTIC CHANNEL

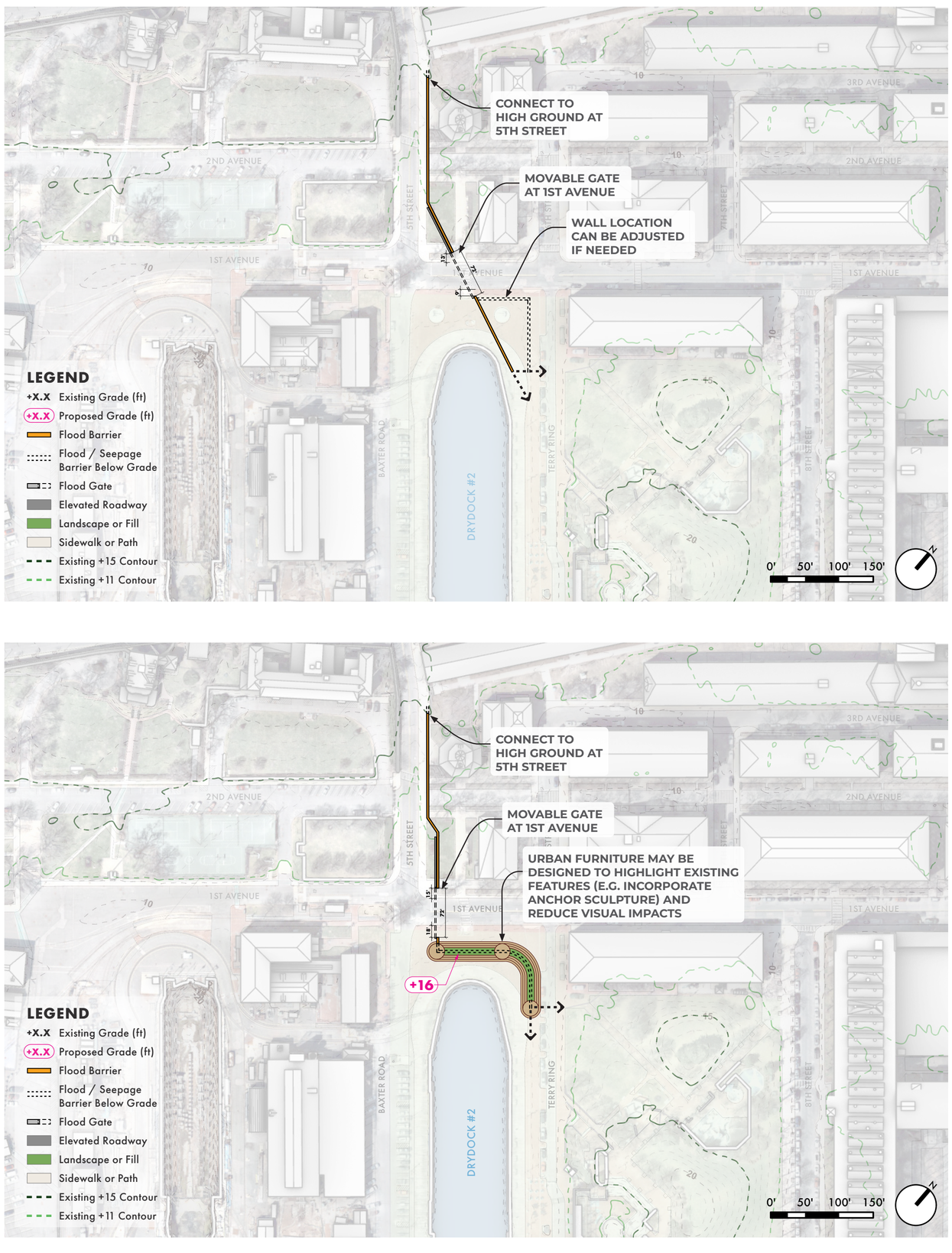
Public Open House October 8, 2025

5TH STREET TIE-IN AREA



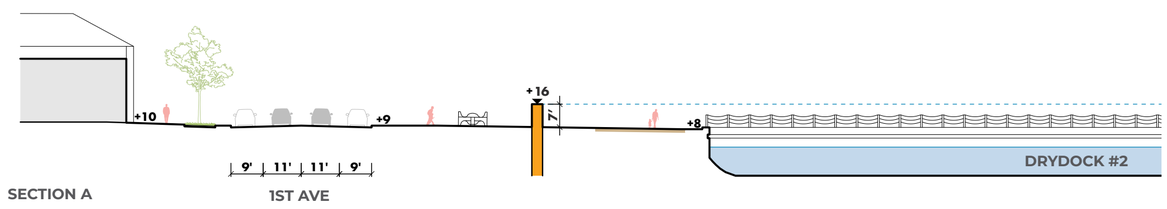
OVERVIEW

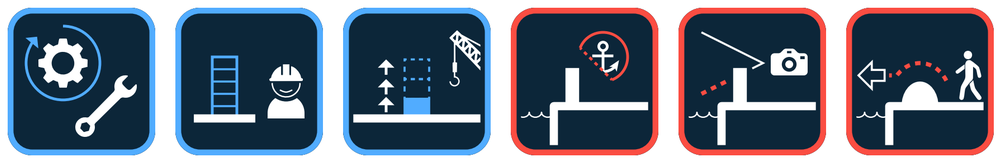




OPTION 1 - FLOOD WALL

COST: $





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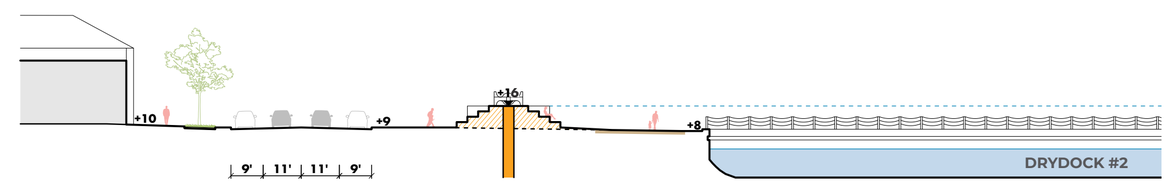
OPTION 2 - URBAN FURNITURE

COST: $$$



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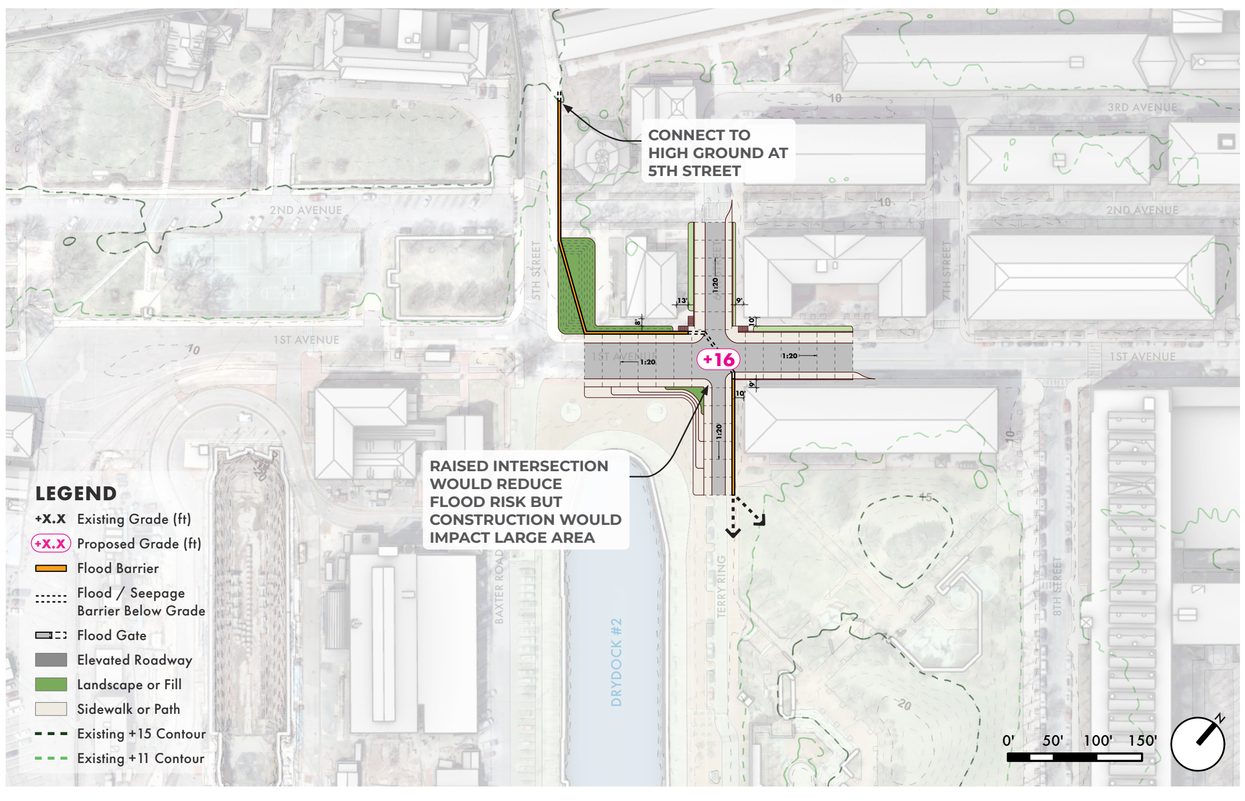
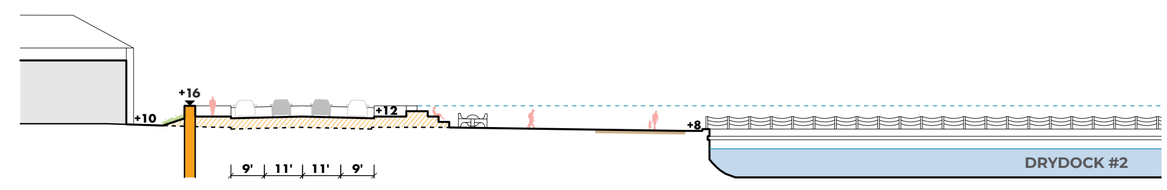
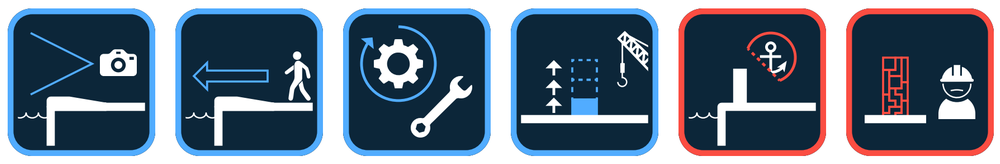


OPTION 3 - RAISED GRADE

COST: $$$$$





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Consultant team:

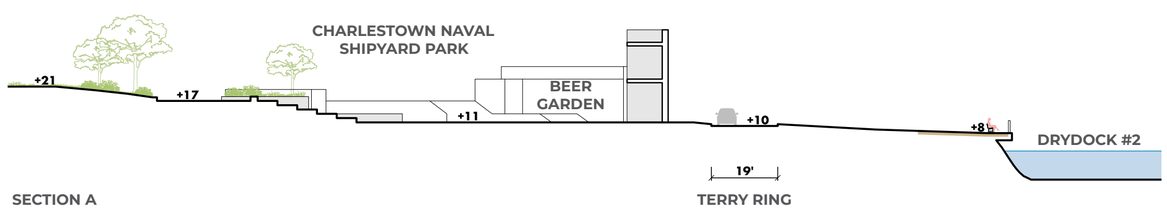
ARCADIS · CBI Catalyzing Collaboration · Childs Engineering · Woods Hole Group, A CLS Company · CHESS Engineering

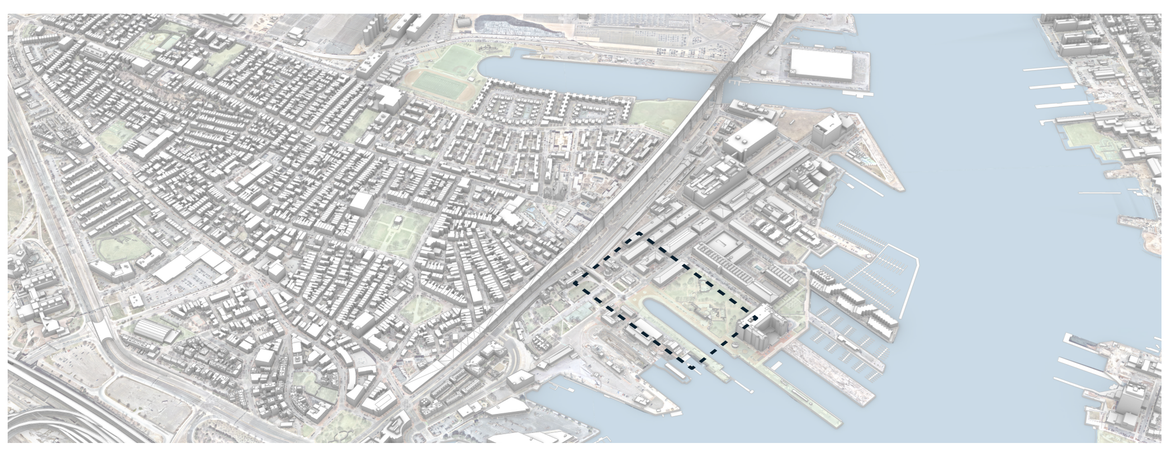
FLOOD RESILIENCE MITIGATION PLANNING, FEASIBILITY & DESIGN STUDY FOR CHARLESTOWN NAVY YARD / LITTLE MYSTIC CHANNEL

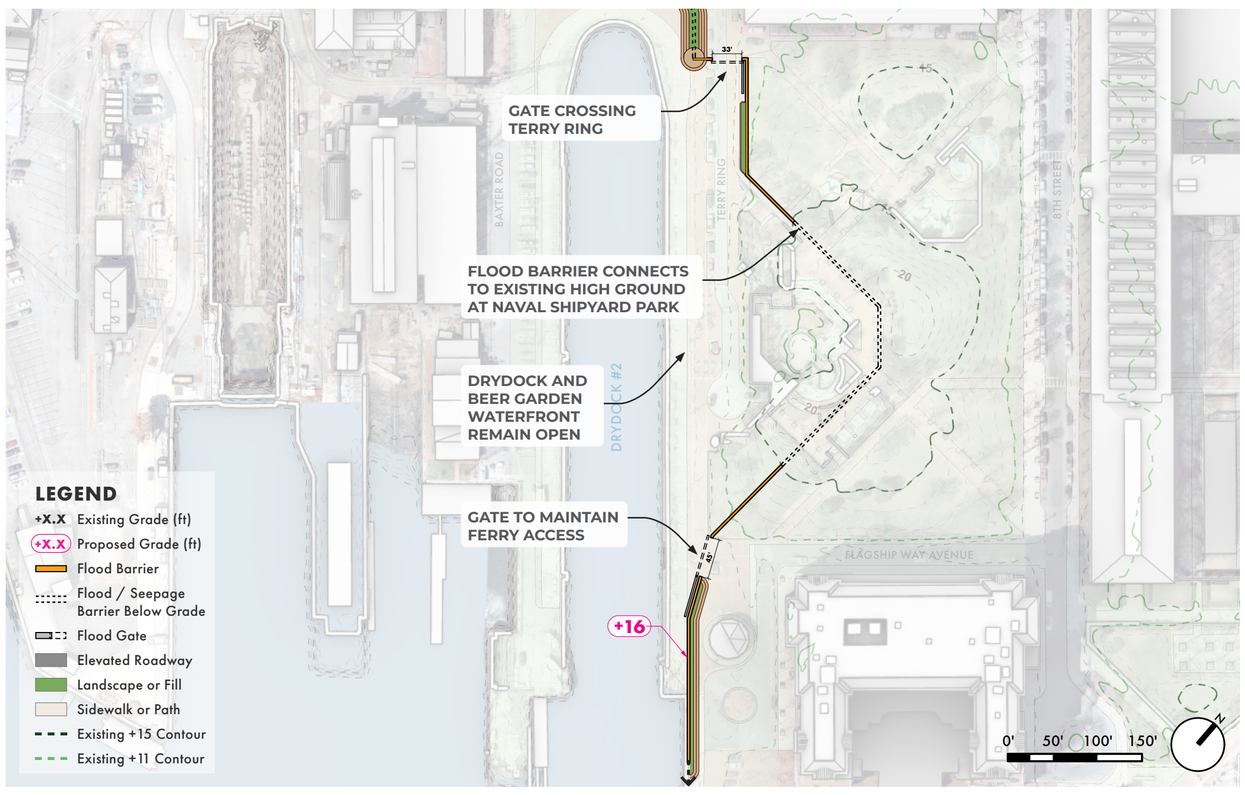
Public Open House October 8, 2025

DRYDOCK #2 AREA

OVERVIEW

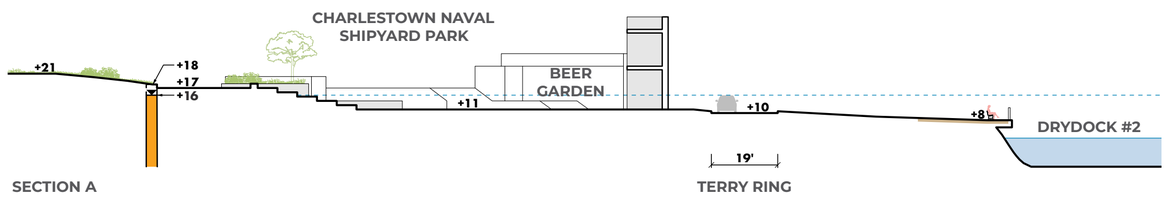






OPTION 1 - BURIED FLOOD WALL

COST: $



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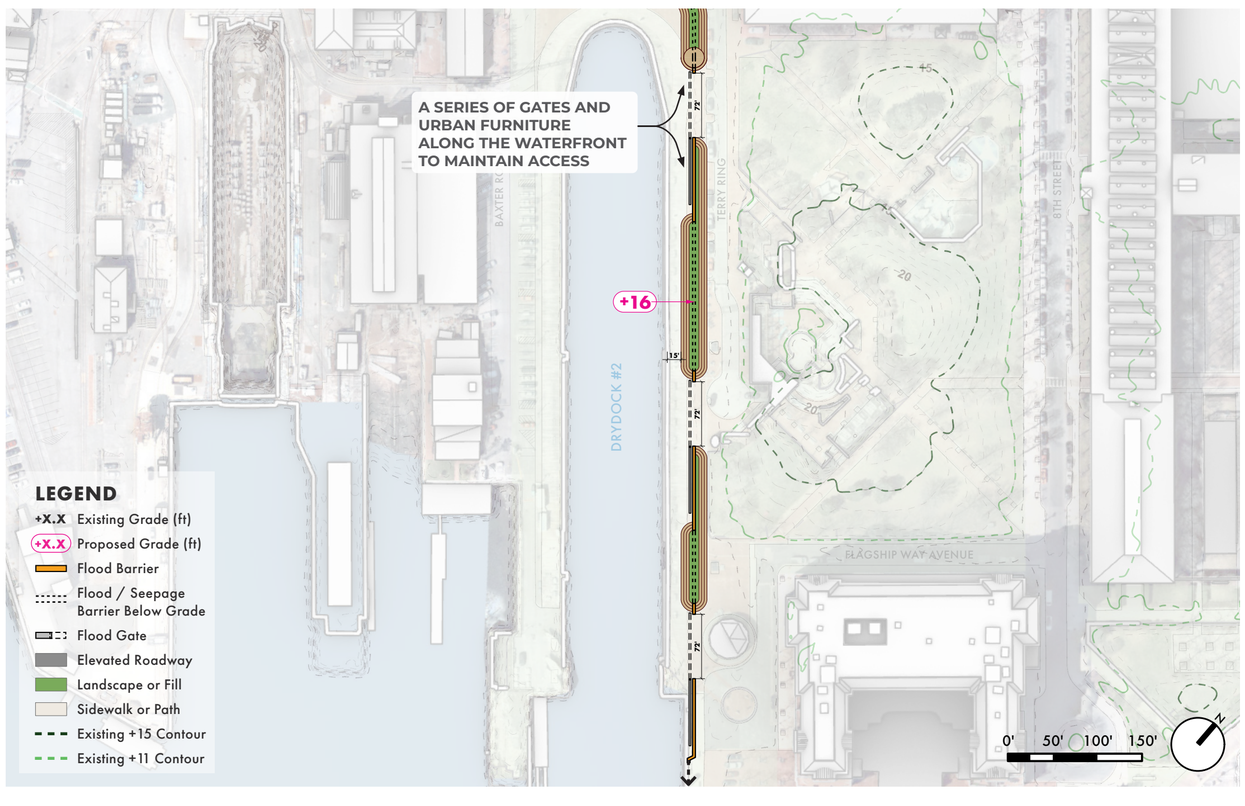
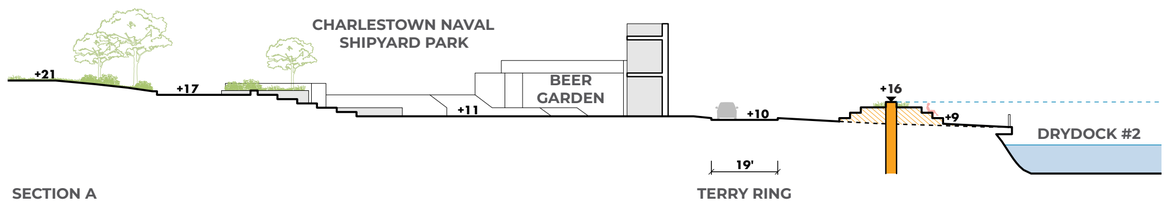


OPTION 2 - URBAN FURNITURE

COST: $$$



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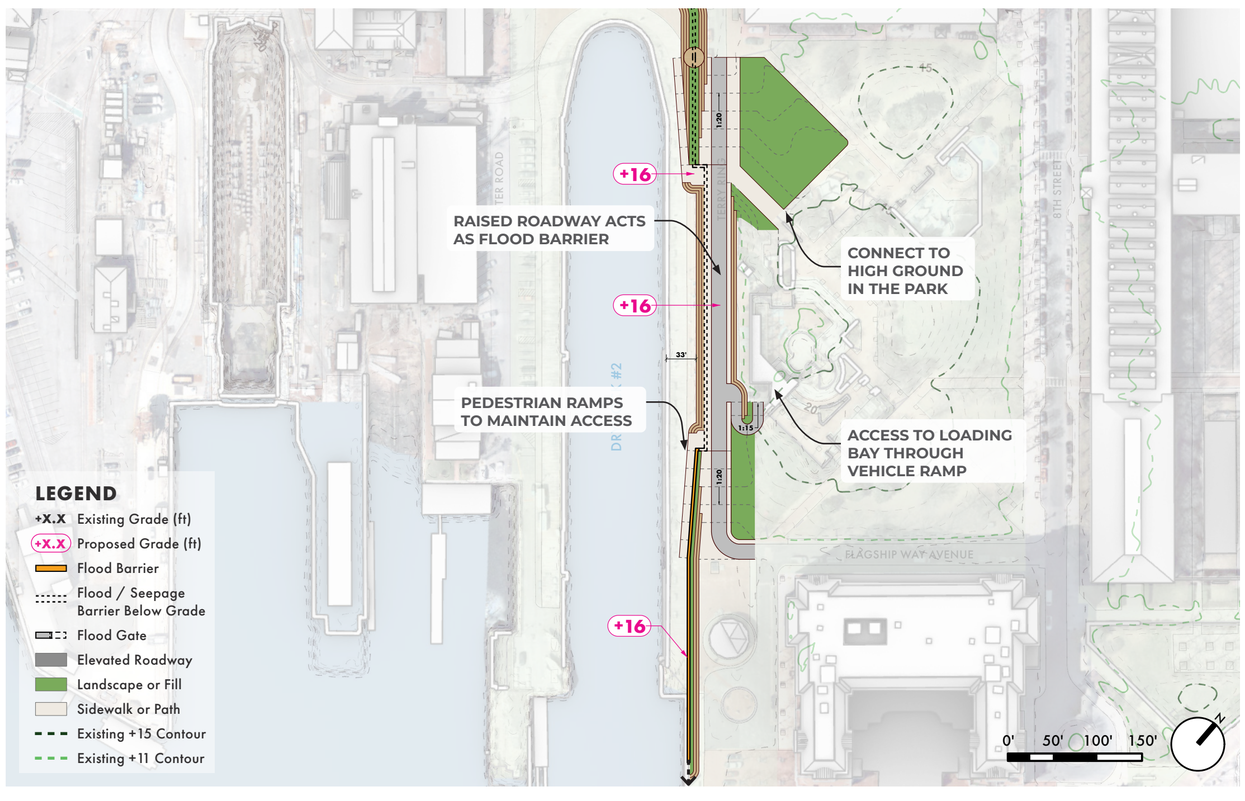
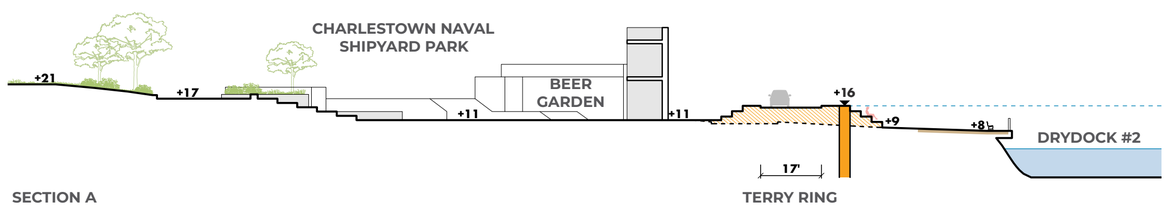


OPTION 3 - RAISED GRADE

COST: $$$$$



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FLOOD RESILIENCE MITIGATION PLANNING, FEASIBILITY & DESIGN STUDY FOR CHARLESTOWN NAVY YARD / LITTLE MYSTIC CHANNEL

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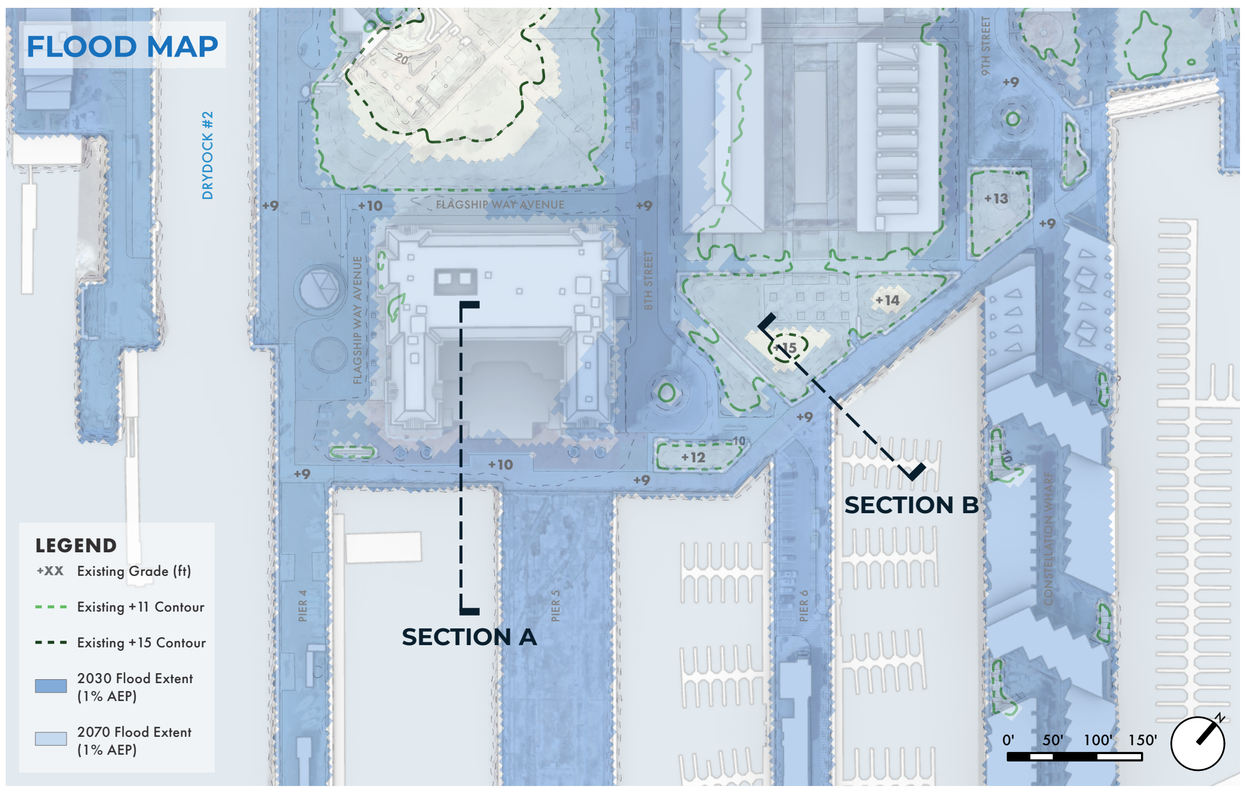
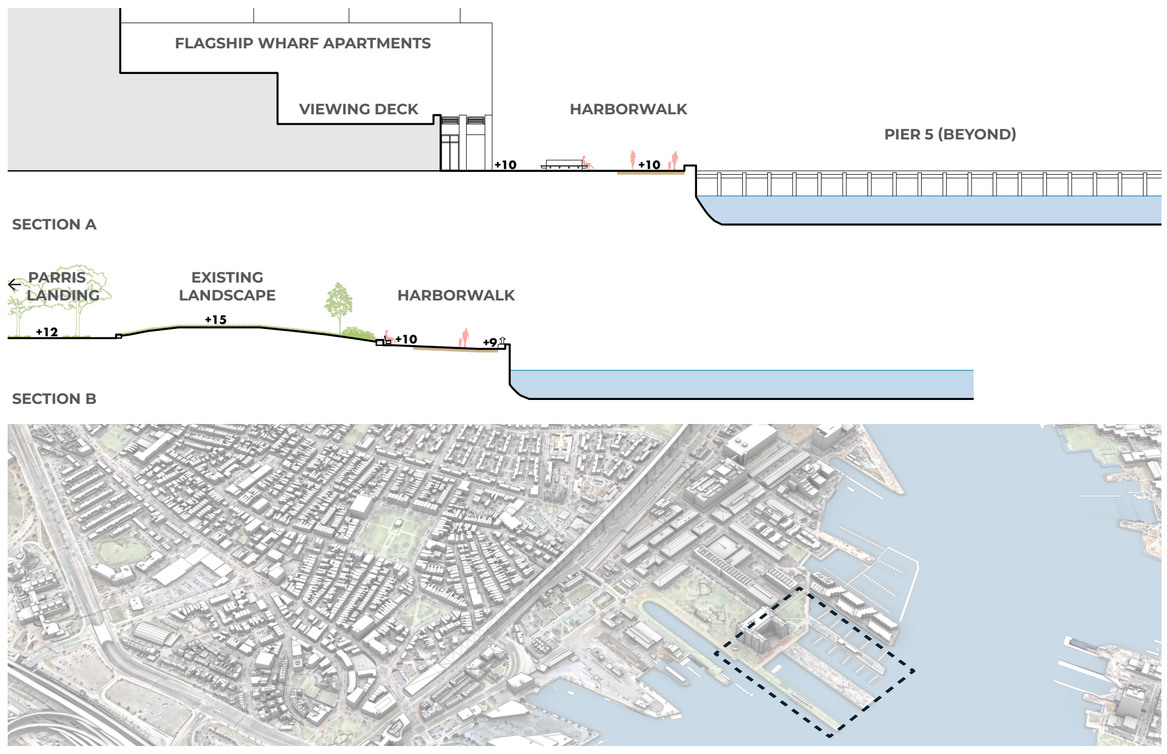
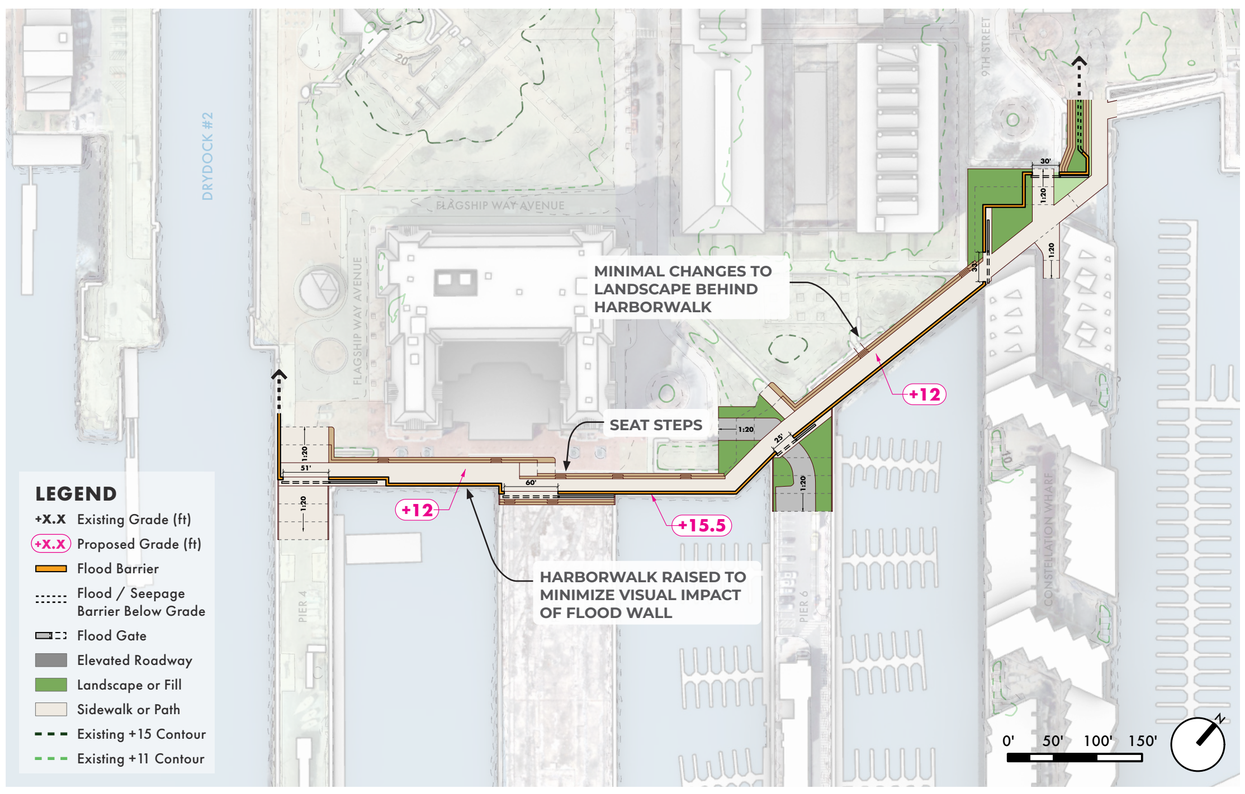
FLAGSHIP WHARF / PIERS 5 & 6 AREA

FLOOD MAP



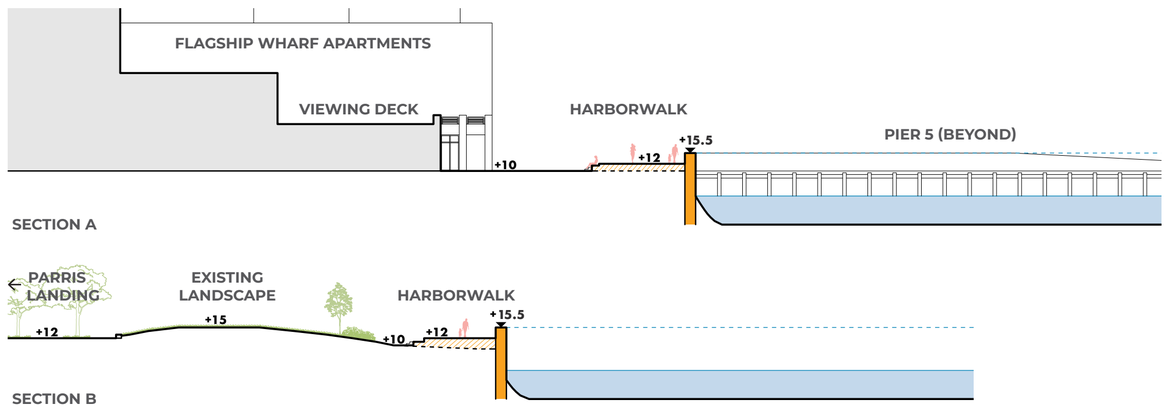
OVERVIEW





OPTION 1 - HARBORWALK WALL

COST: $$$



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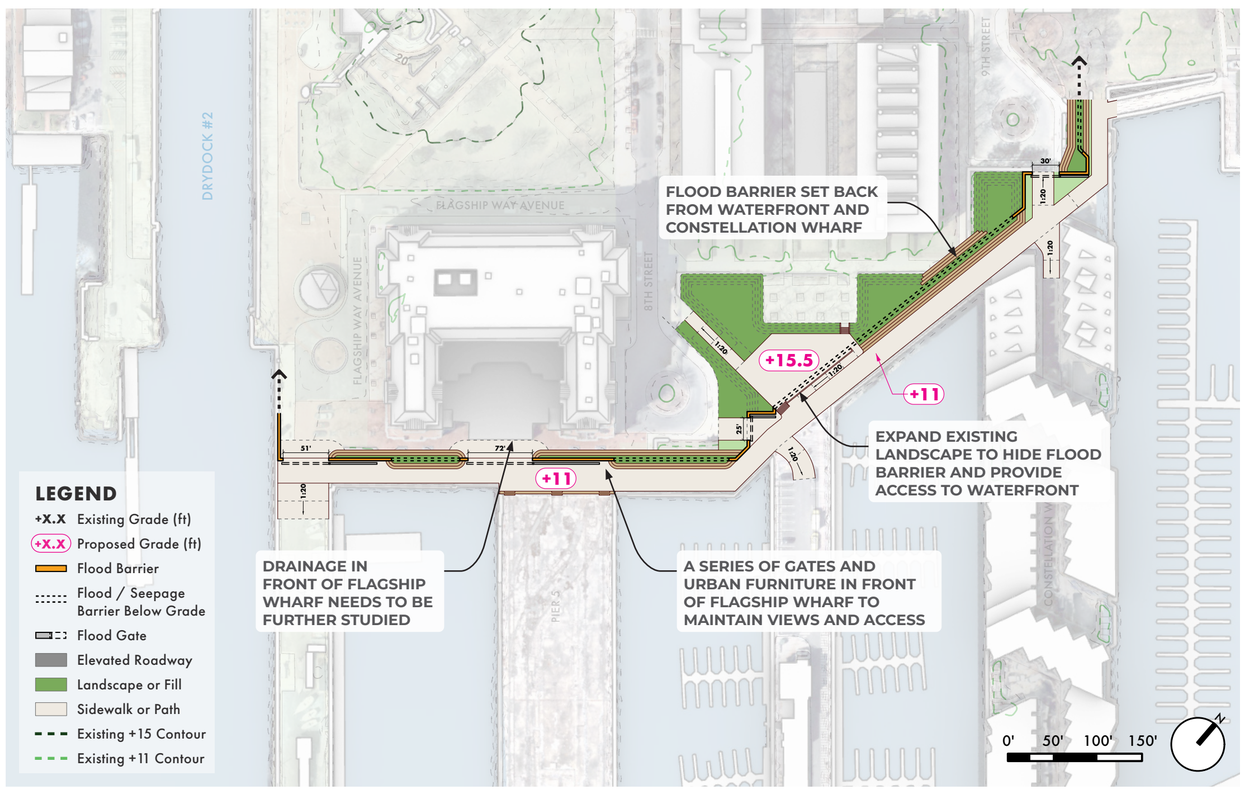
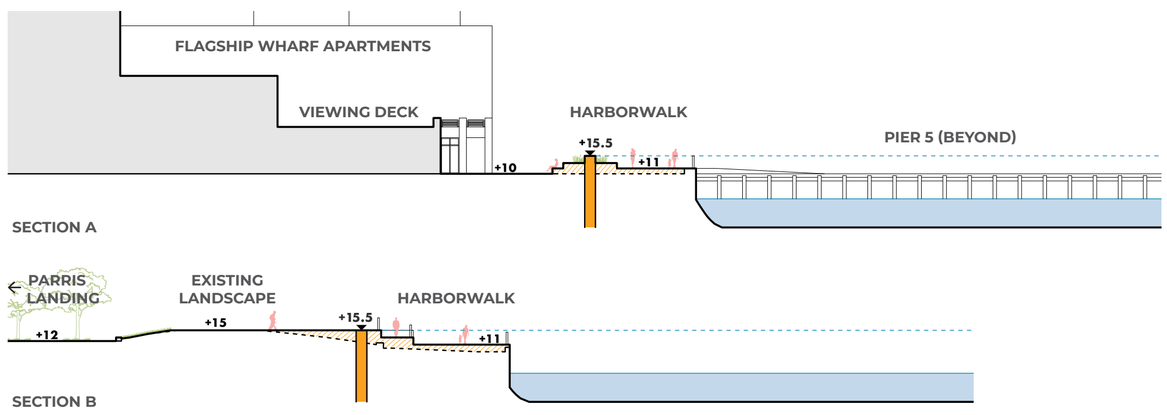


OPTION 2 - URBAN FURNITURE + RAISED GRADE

COST: $$



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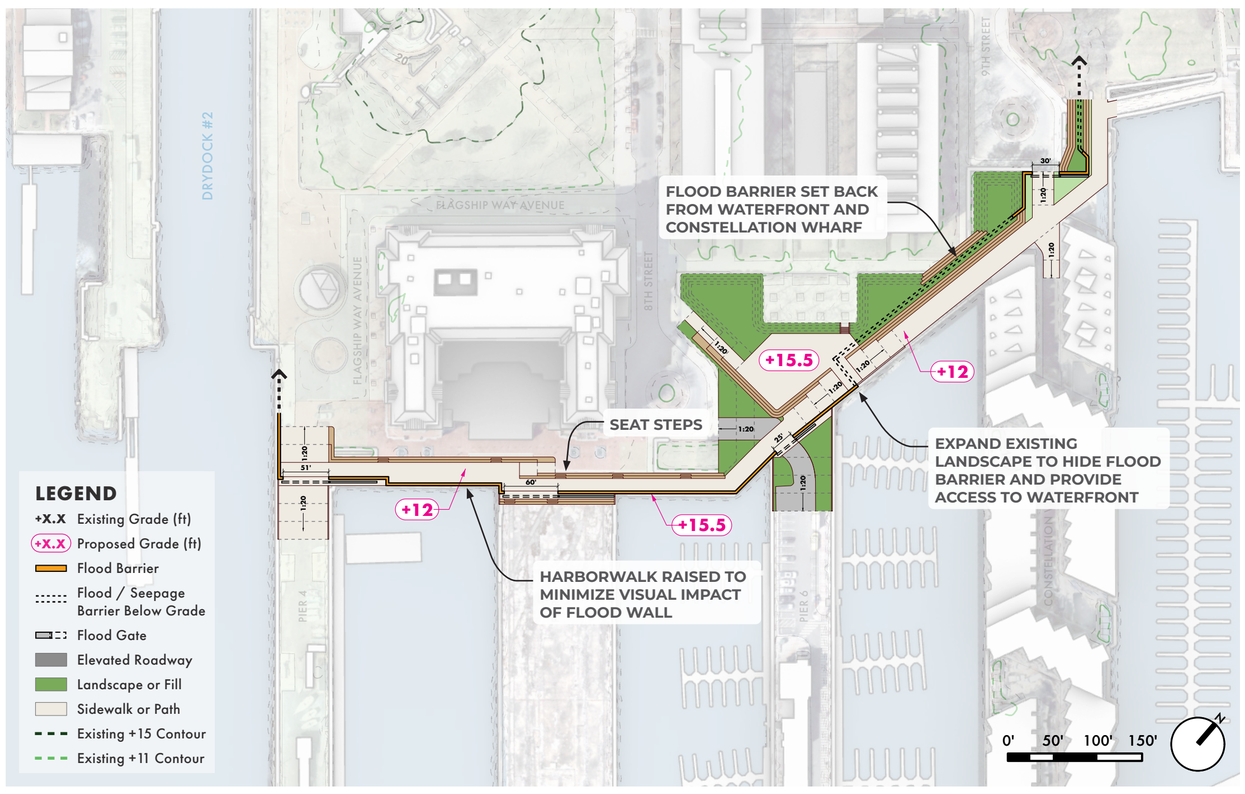
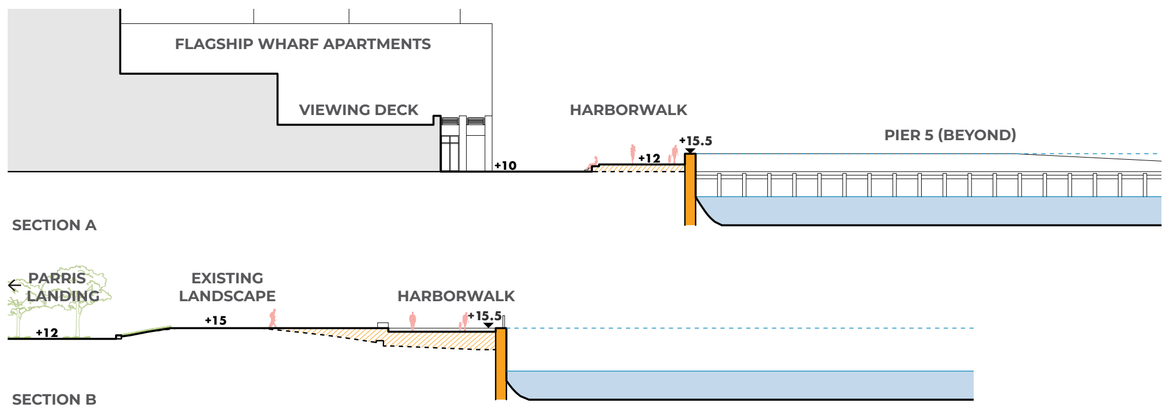


OPTION 3 - HARBORWALK WALL + RAISED GRADE

COST: $$$$



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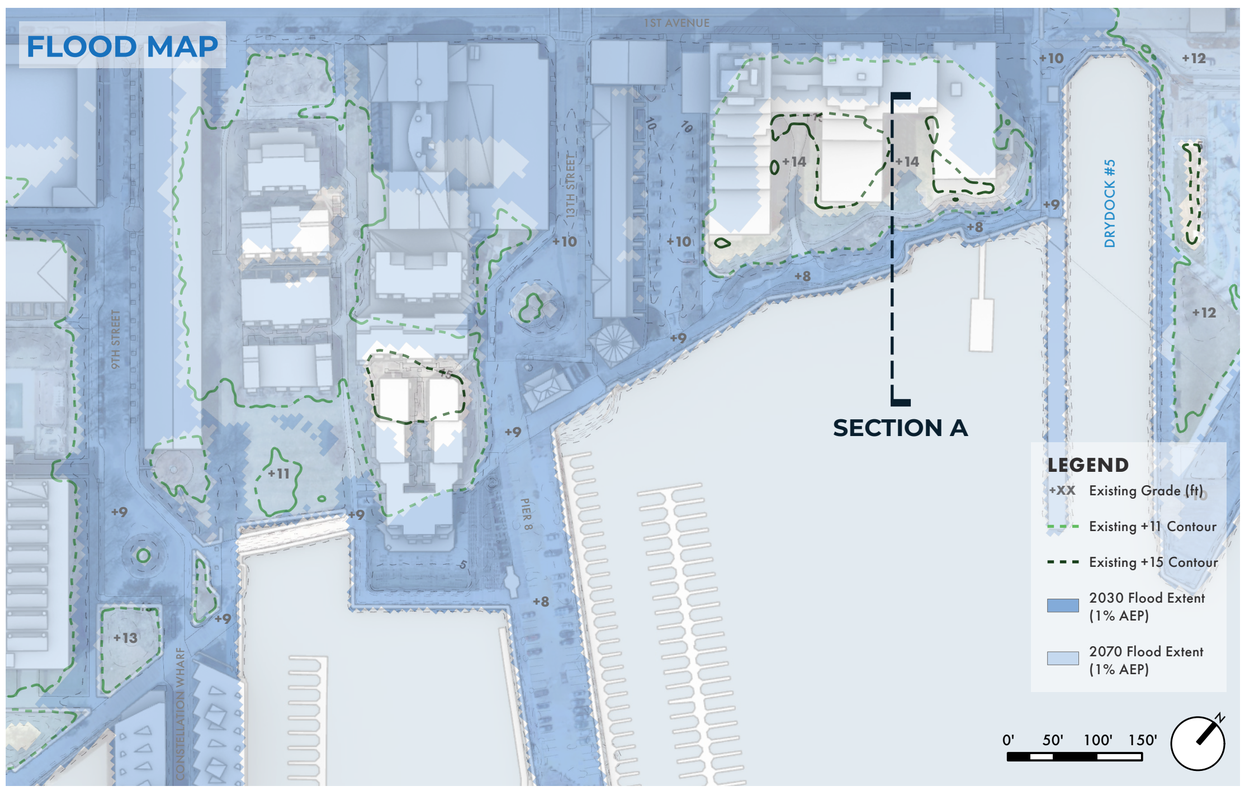
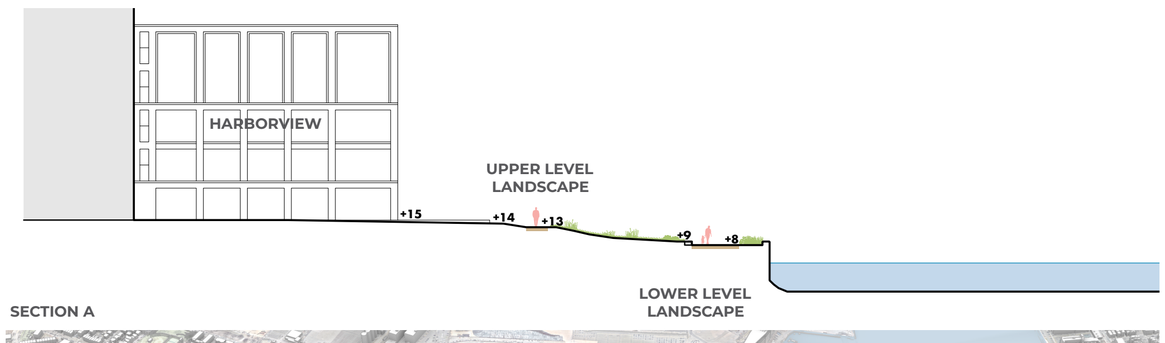
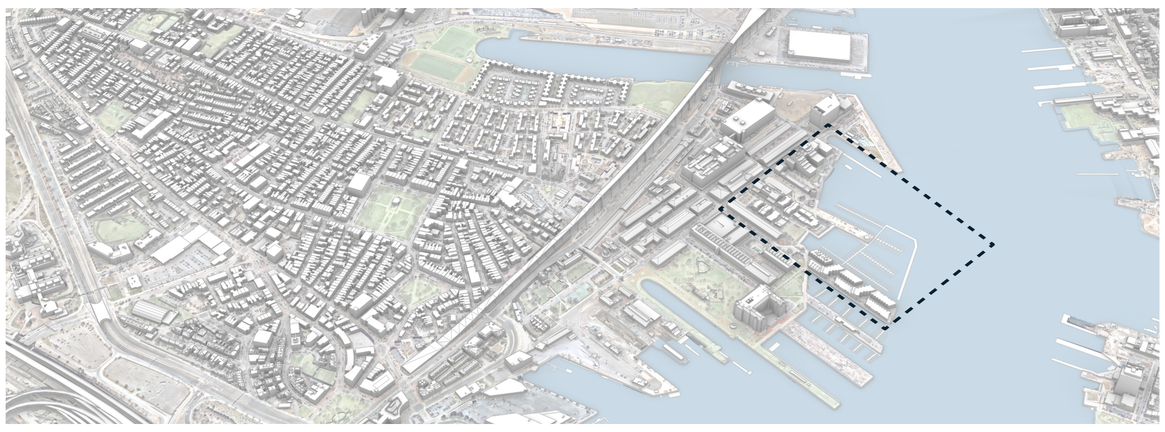
CONSTELLATION WHARF / HARBORVIEW WATERFRONT AREA

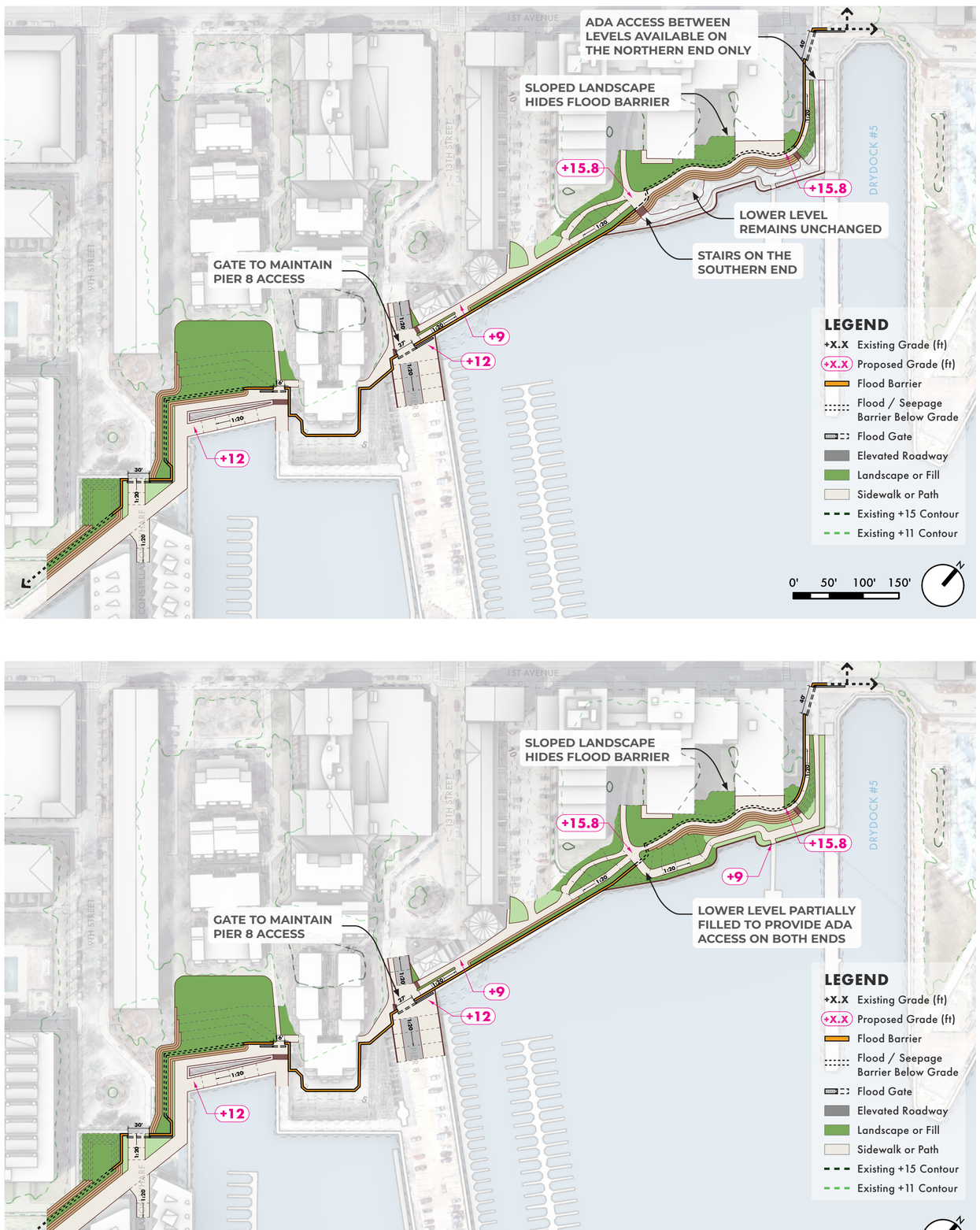


OVERVIEW



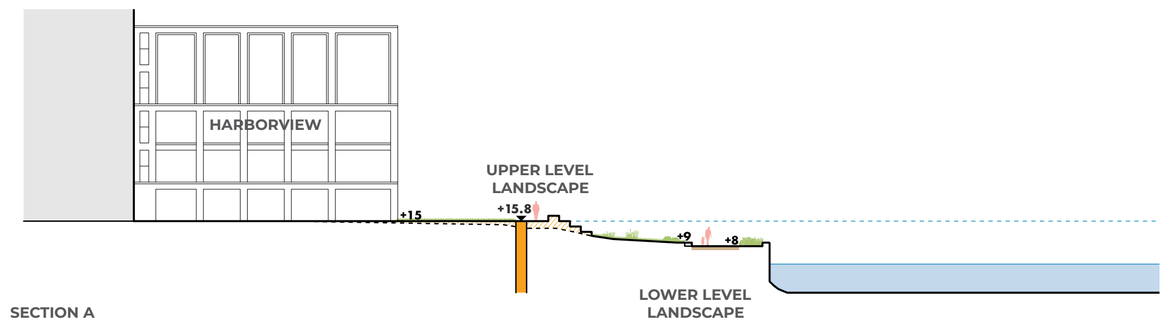
SECTION A





OPTION 1 - BURIED FLOOD WALL AT HARBORVIEW

COST: $$

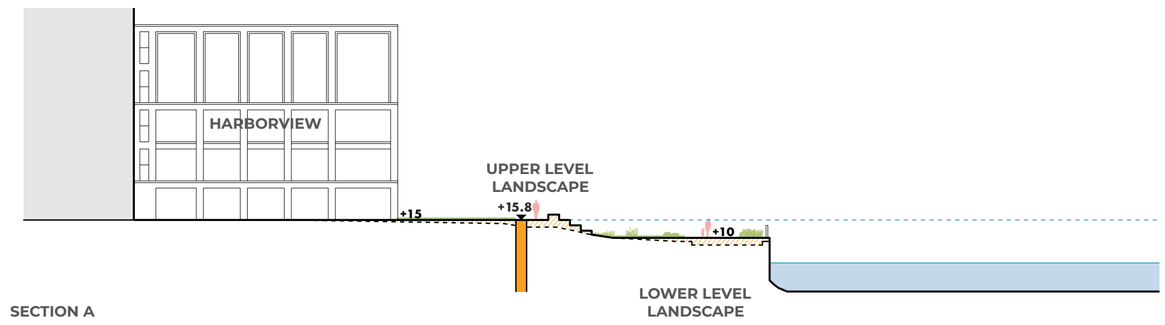


SECTION A

POST YOUR COMMENTS HERE

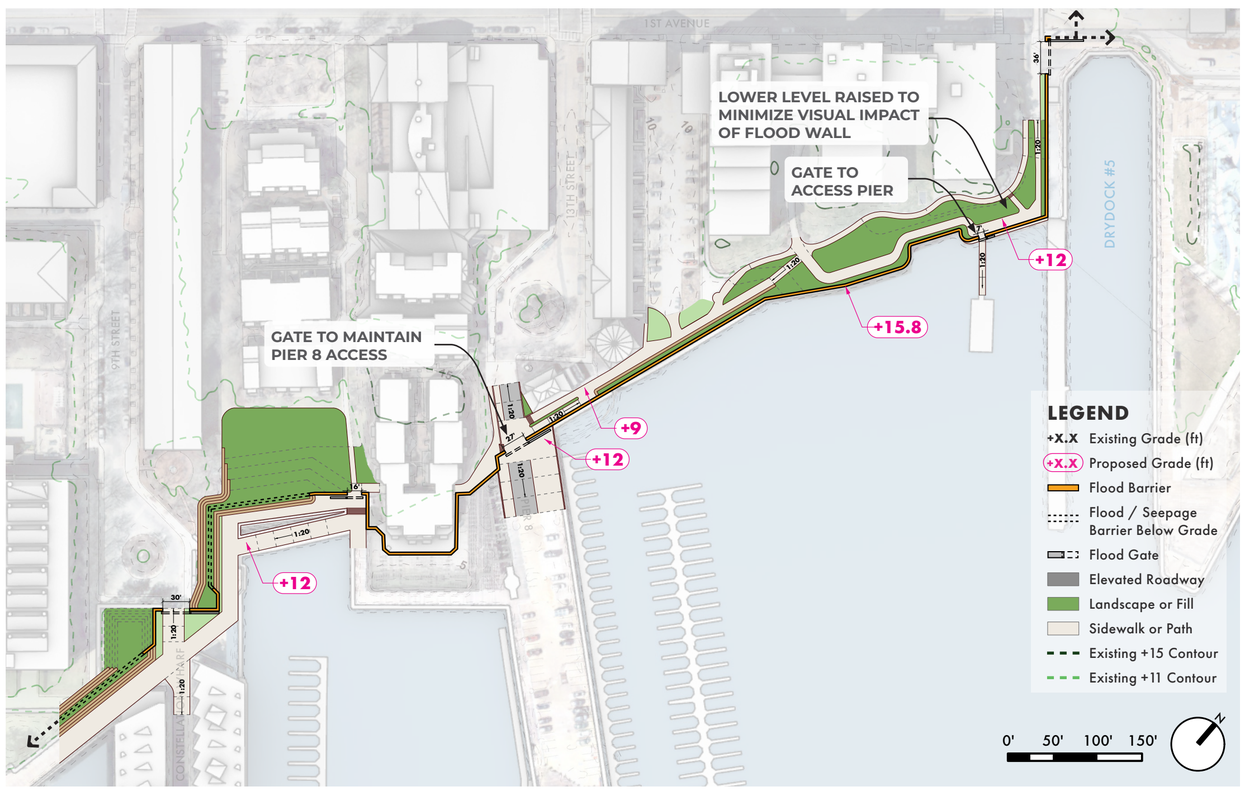
OPTION 2 - BURIED FLOOD WALL + RAISED GRADE AT HARBORVIEW

COST: $$$



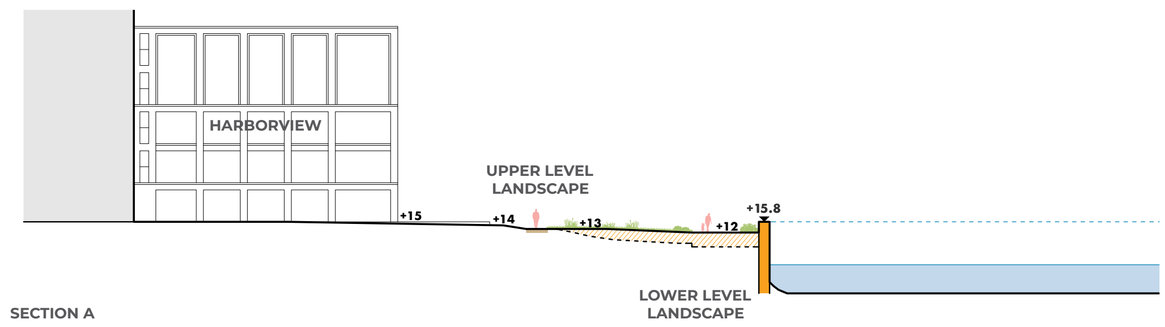
SECTION A

POST YOUR COMMENTS HERE



OPTION 3 - WATERFRONT WALL + RAISED GRADE AT HARBORVIEW

COST: $$$



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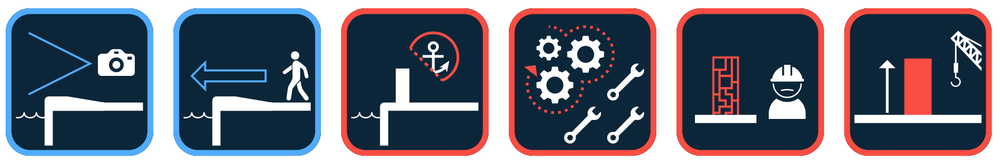

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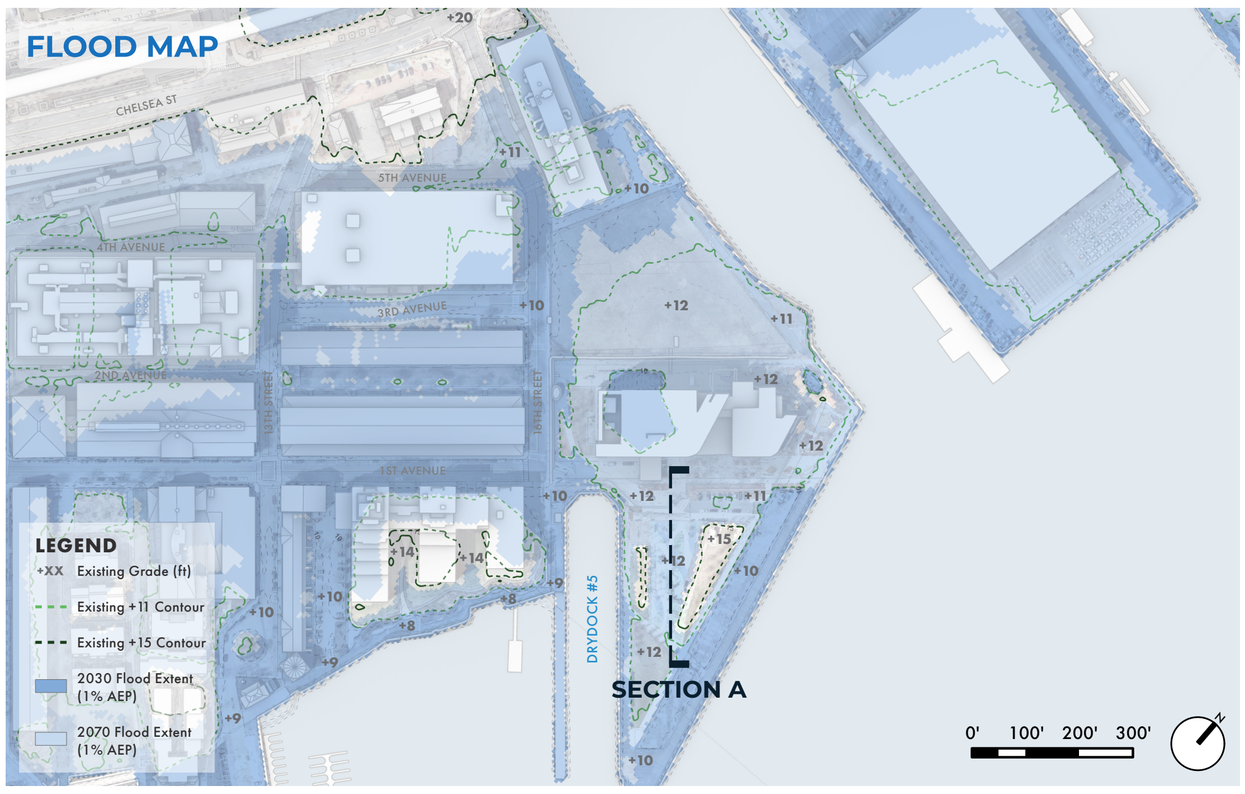
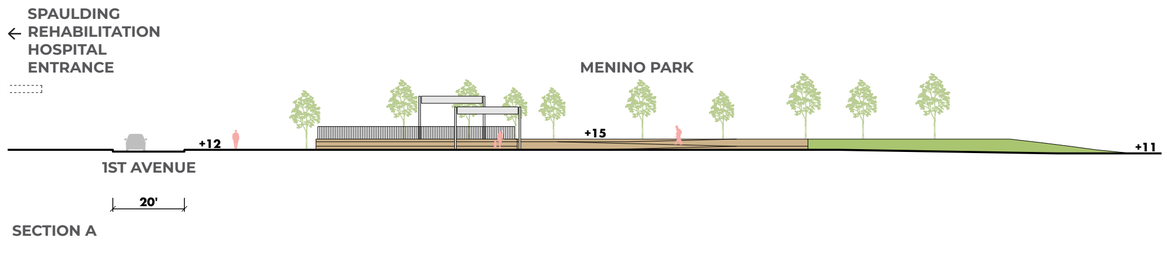
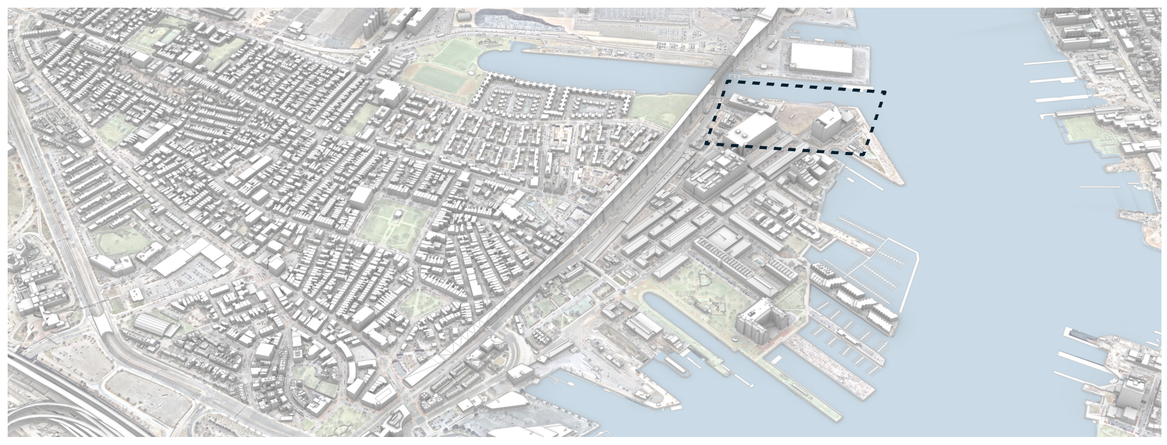
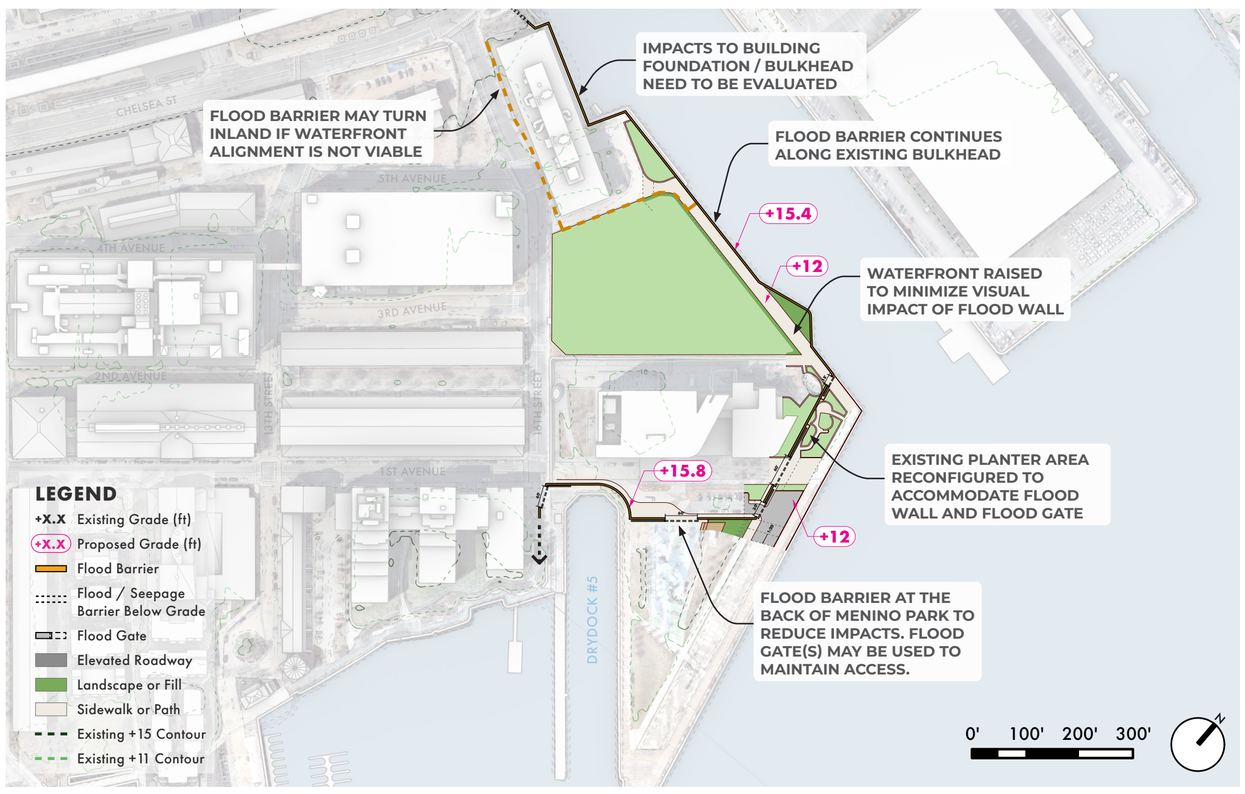
MENINO PARK / SPAULDING REHABILITATION HOSPITAL AREA



OVERVIEW

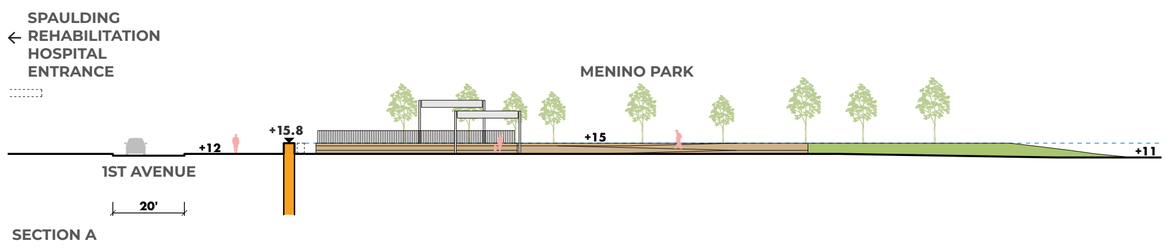


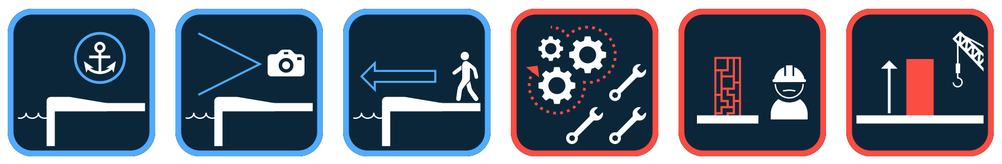




OPTION 1 - BULKHEAD FLOOD WALL

COST: $$$





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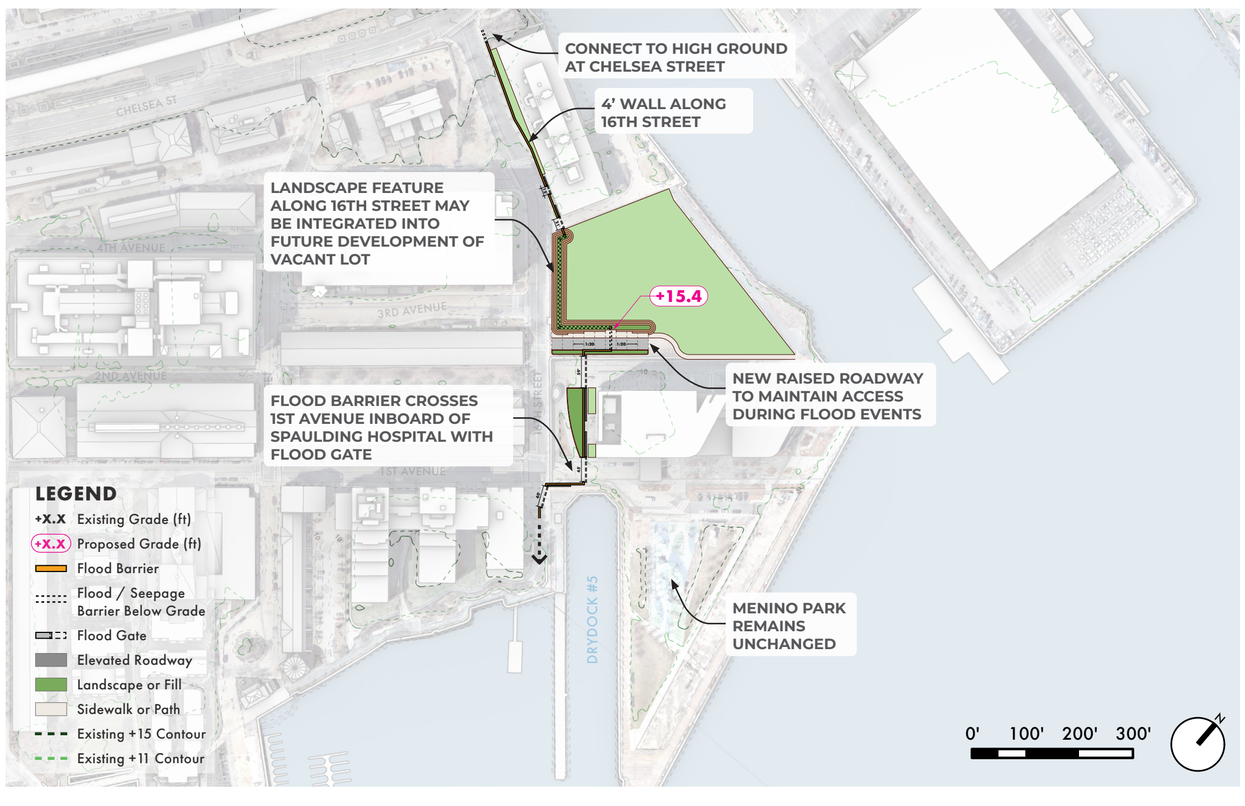
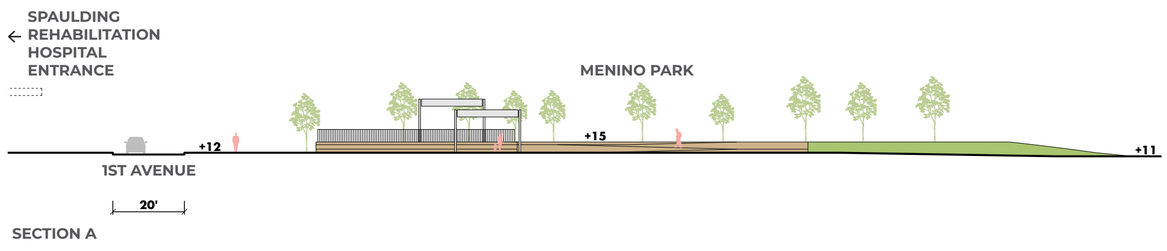


OPTION 2 - INLAND URBAN FURNITURE

COST: $$



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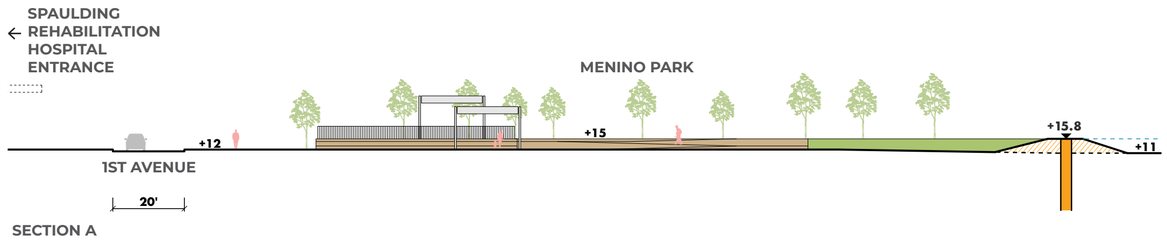
OPTION 3 - RAISED GRADE + BULKHEAD FLOOD WALL

COST: $$$$$



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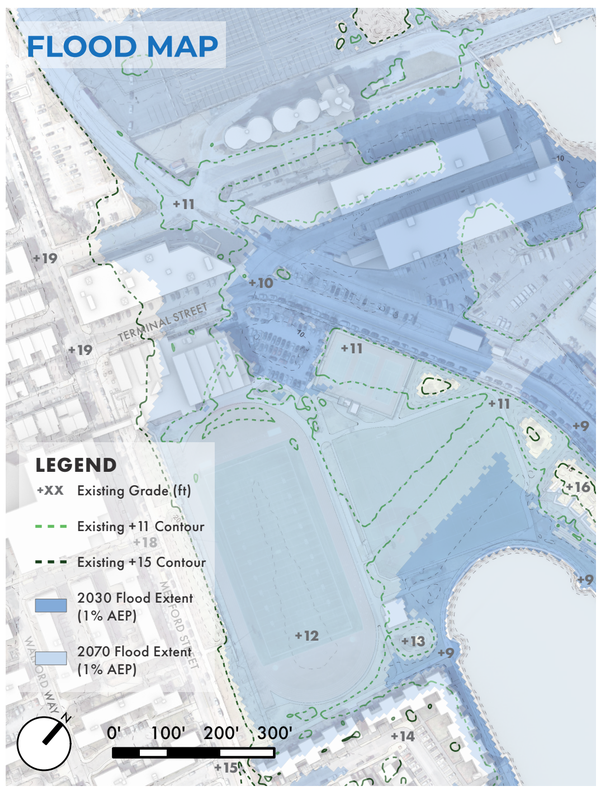
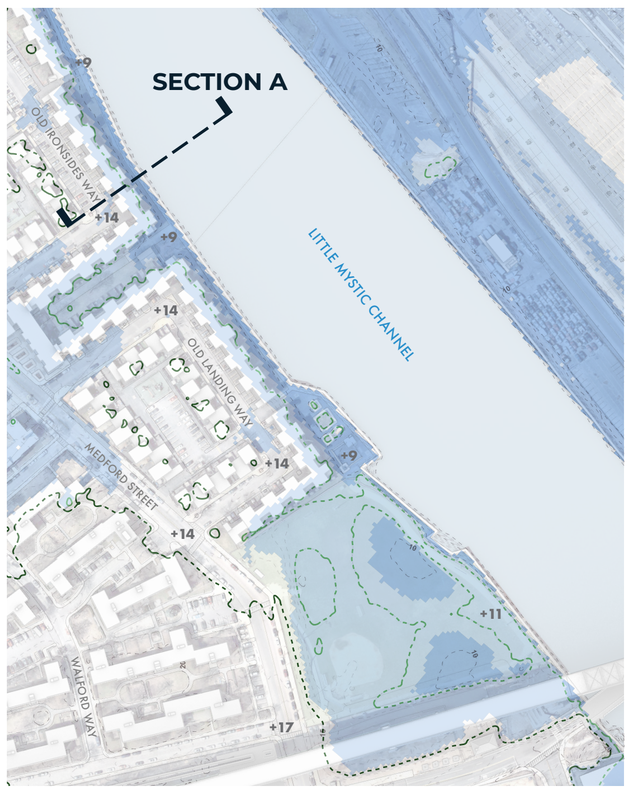
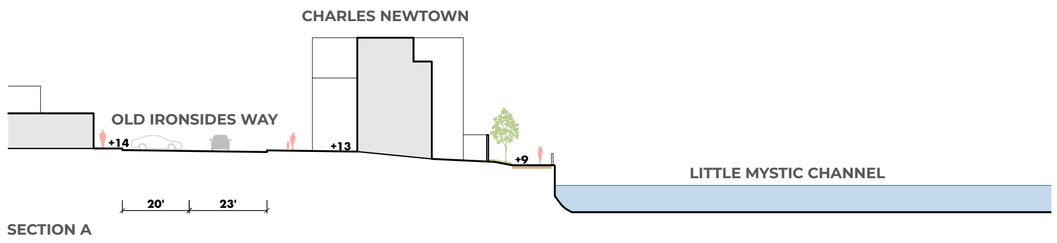
Public Open House October 8, 2025

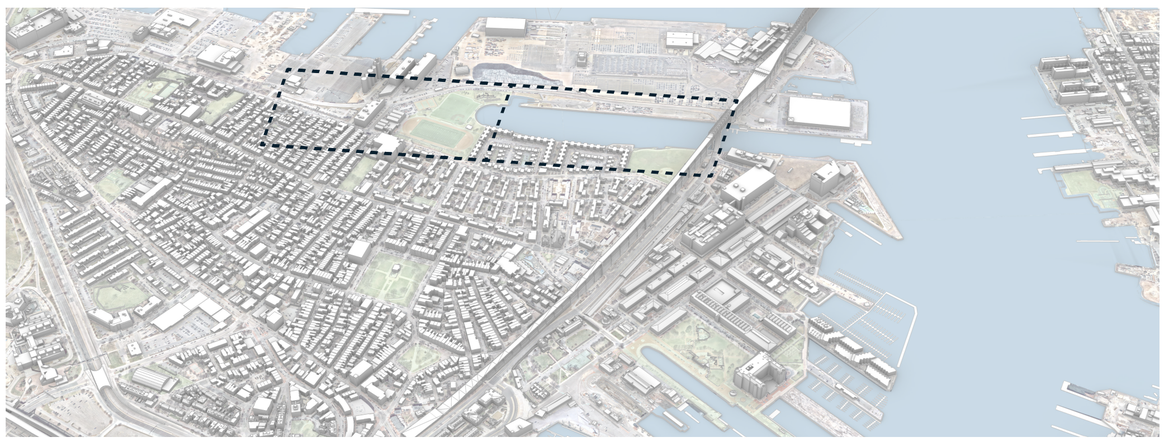
LITTLE MYSTIC CHANNEL / CHARLES NEWTOWN WATERFRONT AREA

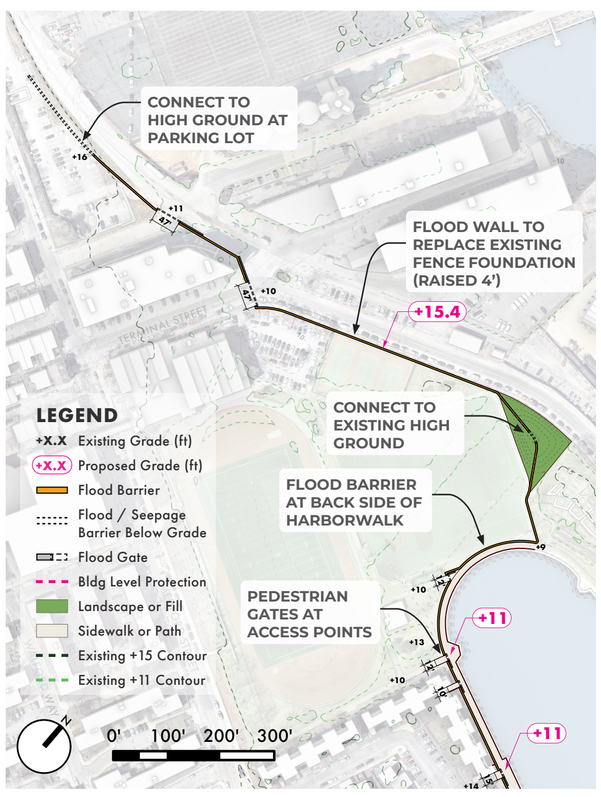


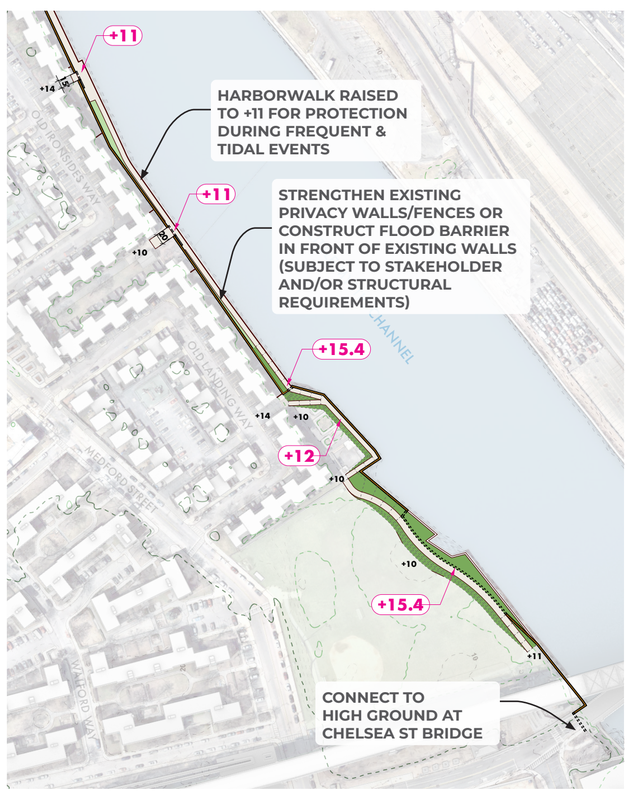


OVERVIEW



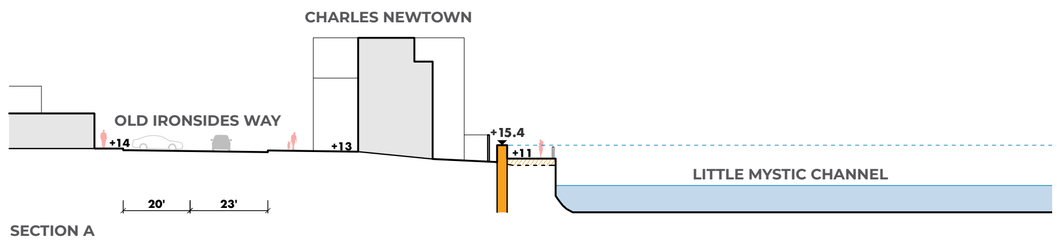






OPTION 1 - FLOOD WALL + FLOOD GATES

COST: $$$



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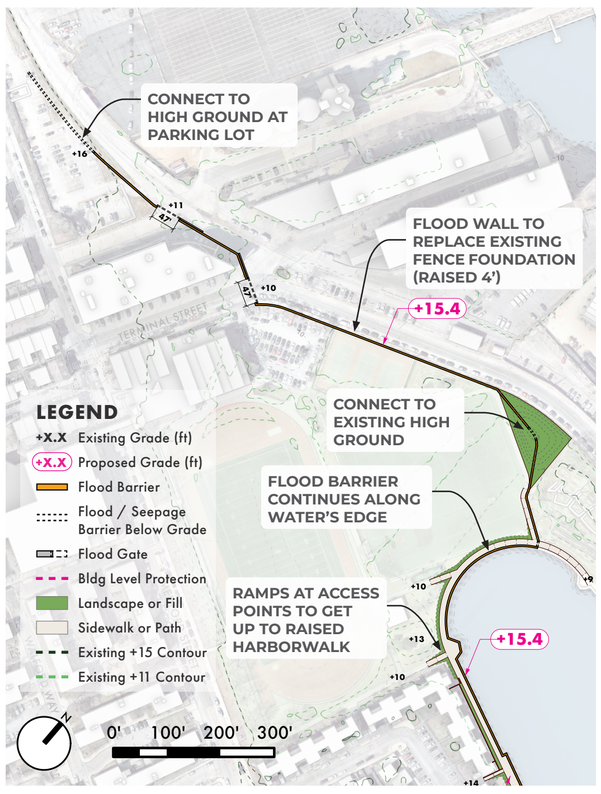
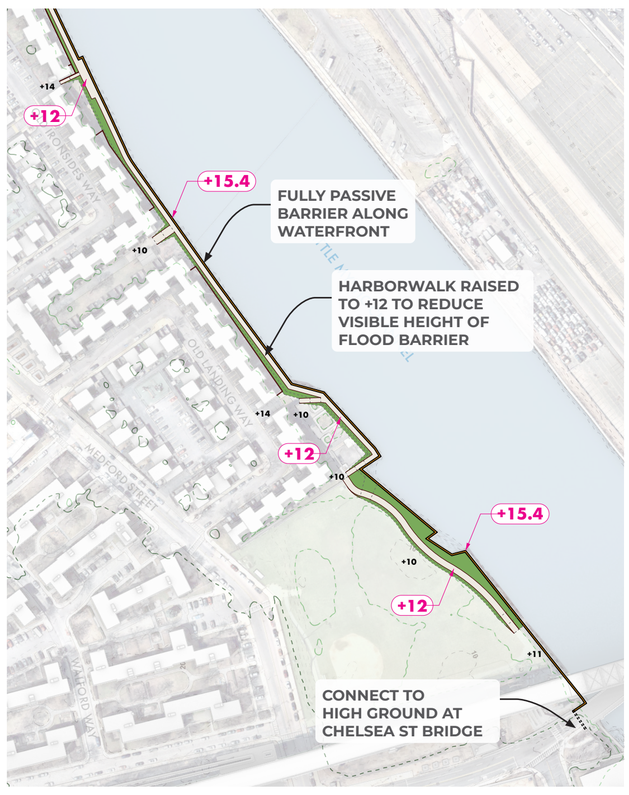
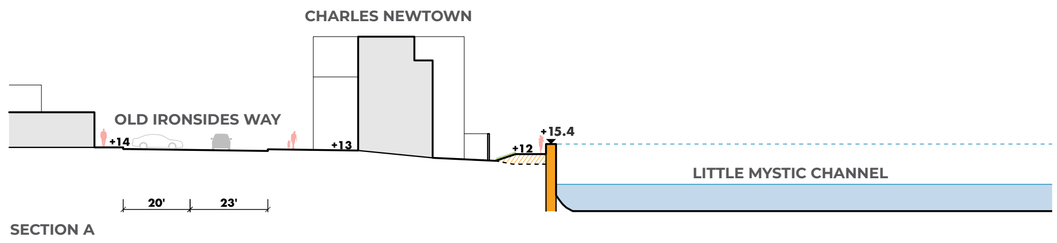




OPTION 2 - BULKHEAD FLOOD WALL

COST: $$$$



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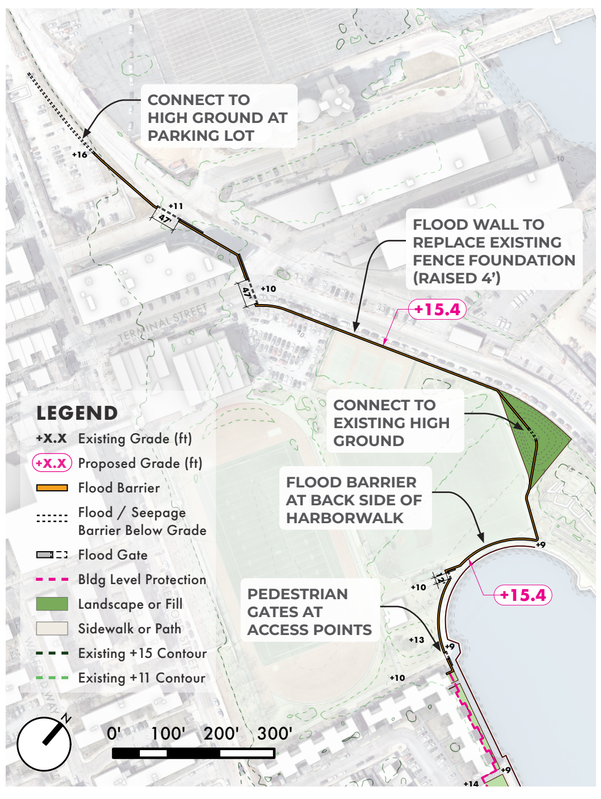
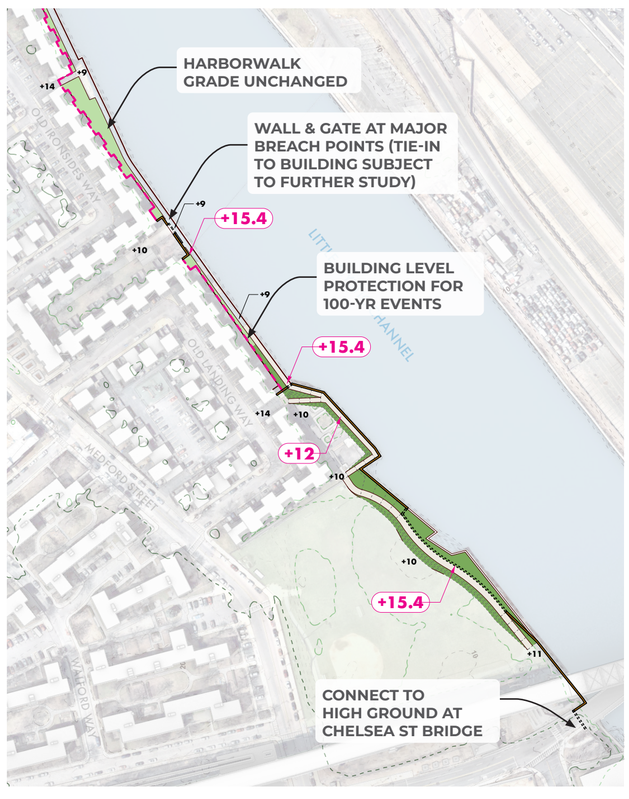
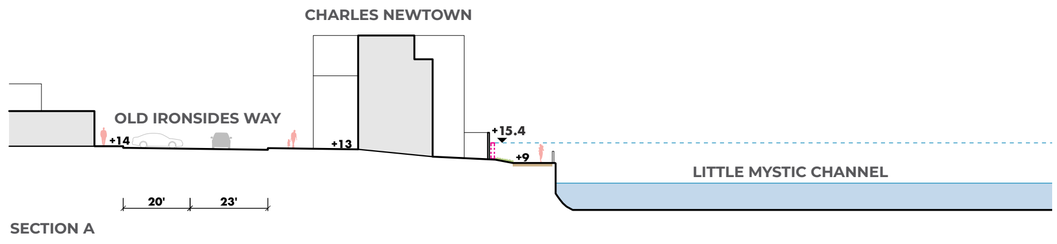
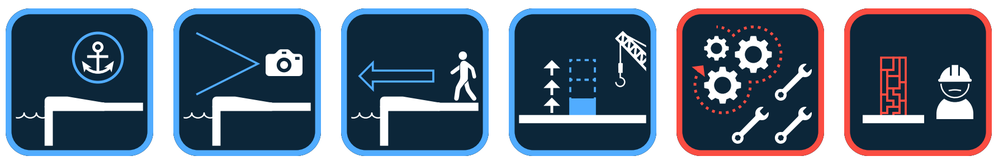




OPTION 3 - FLOOD GATES + PROPERTY LEVEL MITIGATION

COST: $$





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Public Open House October 8, 2025

PROPERTY LEVEL MITIGATION

FLOODPROOFING APPROACHES

ACTIVE FLOODPROOFING

Movable flood gate in the East Side Coastal Resiliency project in NYC. Active floodproofing requires human intervention to provide flood protection (Source: OFTN Architecture)

PASSIVE FLOODPROOFING

Upper level harborwalk (left) acting as flood barrier at Charlestown Harborview. Passive floodproofing is permanently installed and provides 24/7 asset protection without any electricity, personnel, or training (Source: OFTN Architecture)

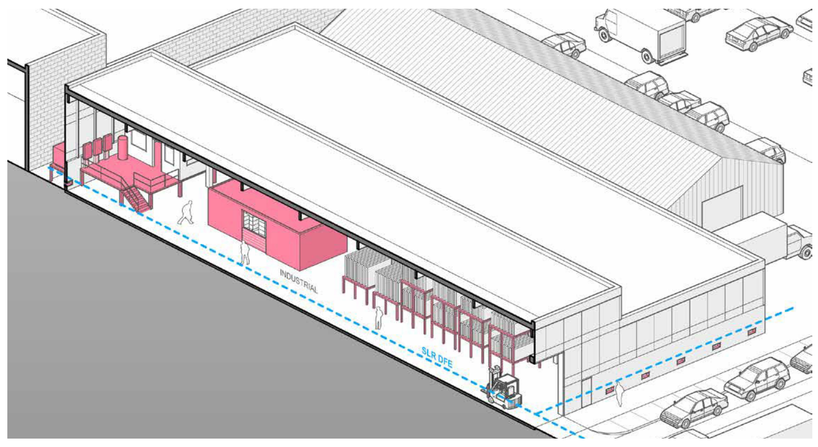
DRY FLOODPROOFING

Dry floodproofing seals a space or a building to eliminate or reduce potential flood damage by keeping floodwaters out of the structure. Involves use of active or passive flood barriers at openings or around the perimeter of a building. (Source: Flood Control International)

WET FLOODPROOFING

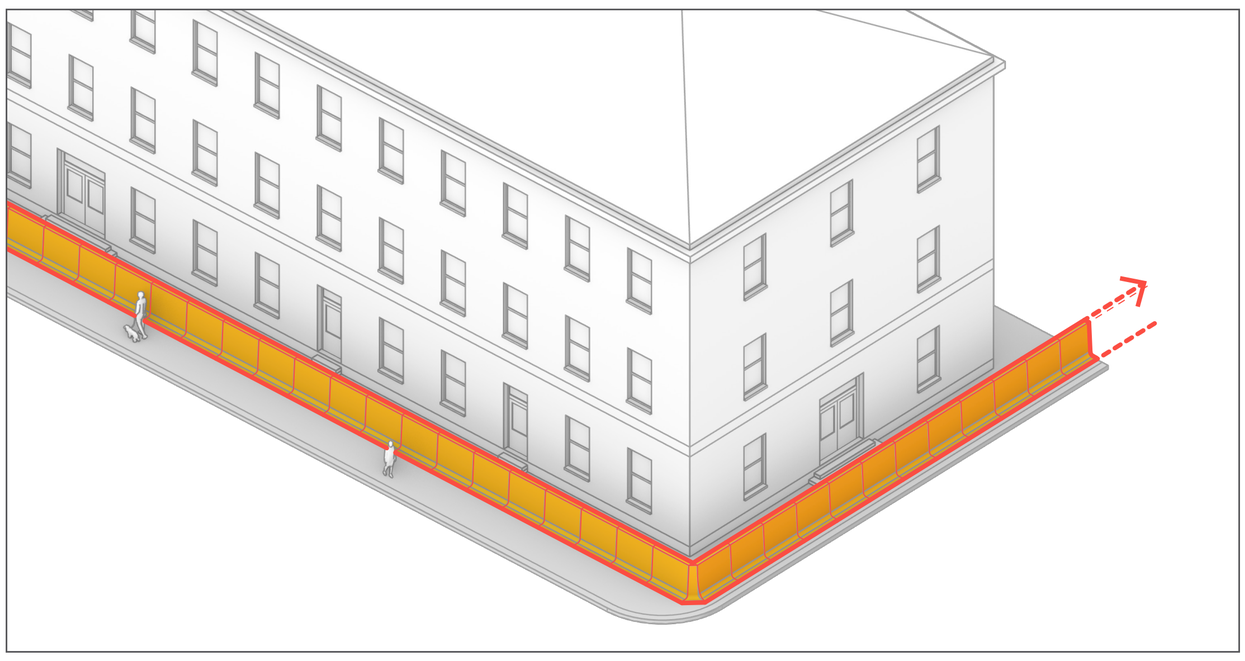
Wet floodproofing designs for the movement of water through an uninhabited space or a building, which equalizes hydrostatic pressure and helps prevent structural failure. Involves use of flood vents or other openings and flood-damage-resistant materials.
(Source: Continuing Education Centers/ Photo by Smart Vents, Inc. (top), FEMA (bottom))

PROTECT CRITICAL SYSTEMS



Adapt building operations and protect critical systems by locating them above the flood elevation. A combination of dry and wet floodproofing strategies may be used to help protect sensitive content and reduce flood damage.
(Source: City of Boston Planning Department, Coastal Flood Resilience Design Guidelines)

POTENTIAL APPLICATIONS IN PROJECT AREA



PERIMETER PROTECTION

Dry floodproofing the openings and/or perimeter of a building with movable, passive, or a combination of both types of barriers.

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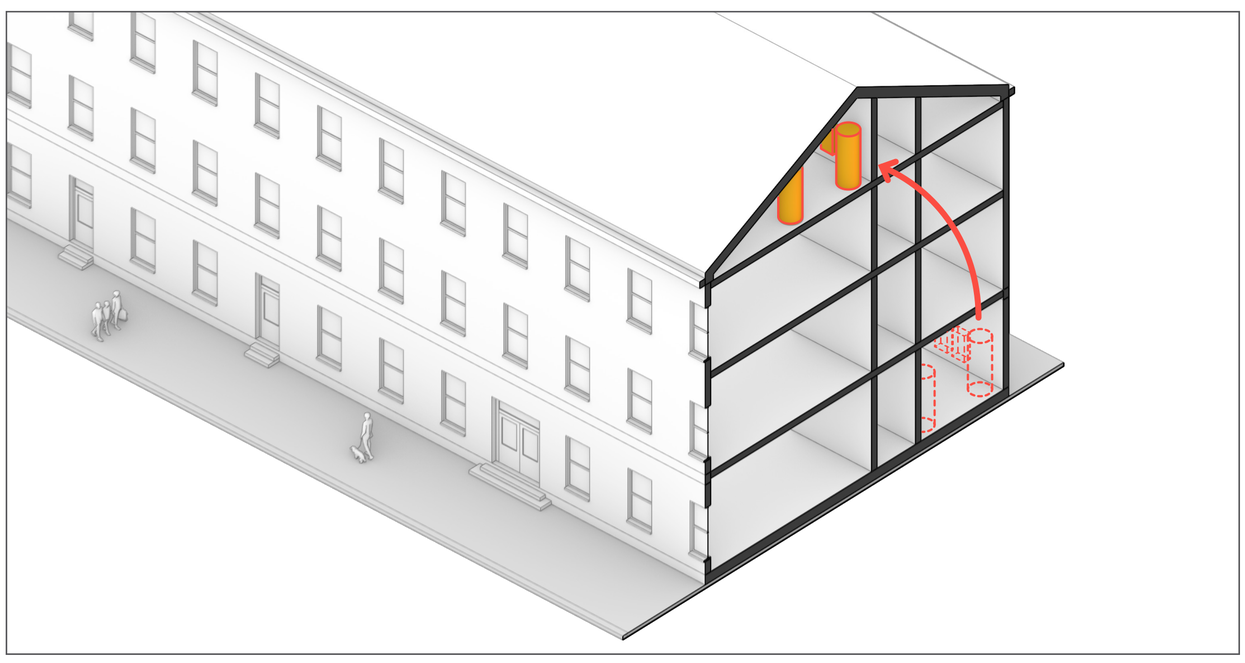

RELOCATION OF UTILITIES

Relocating utilities and critical systems such as boilers and furnaces, water heaters, electrical panels, and backup generators above the flood level. The lowest floor may either be wet floodproofed or elevated with fill.

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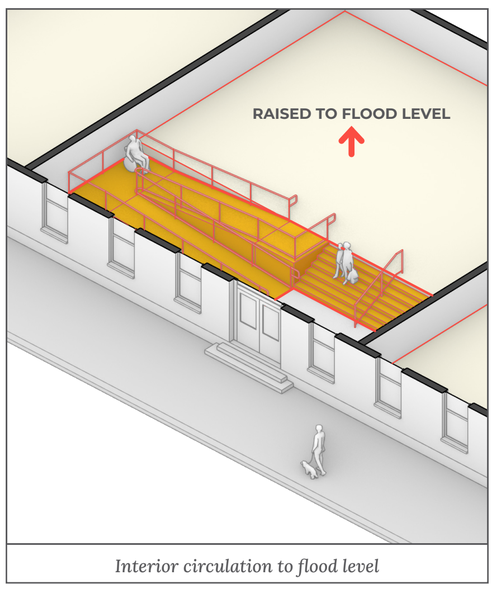
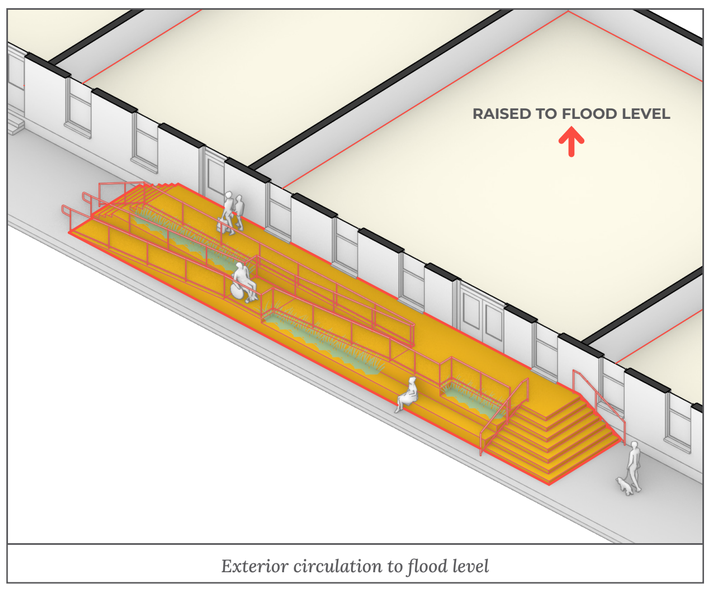


Interior circulation to flood level



Exterior circulation to flood level

ELEVATE LOWEST INTERIOR FLOOR WITH CIRCULATION TO FLOOD LEVEL

Elevating the lowest floor above the flood level. New accessible routes to the elevated floor may be designed either inside or outside the building. Highly dependent on the ceiling height and the availability of space for the additional stairs and ramps.

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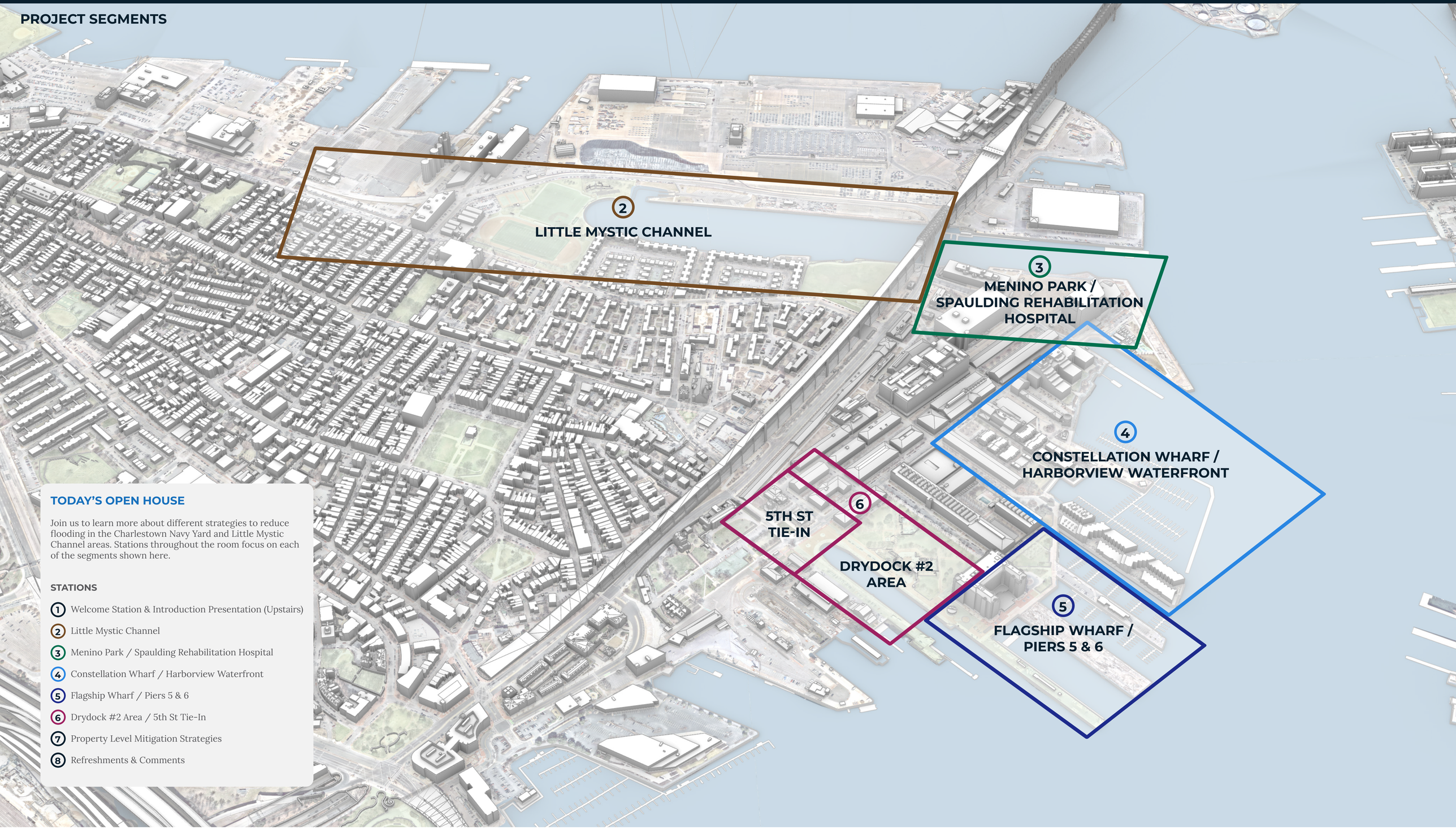
PROJECT SEGMENTS



TODAY'S OPEN HOUSE

Join us to learn more about different strategies to reduce flooding in the Charlestown Navy Yard and Little Mystic Channel areas. Stations throughout the room focus on each of the segments shown here.

STATIONS

1. Welcome Station & Introduction Presentation (Upstairs)
2. Little Mystic Channel
3. Menino Park / Spaulding Rehabilitation Hospital
4. Constellation Wharf / Harborview Waterfront
5. Flagship Wharf / Piers 5 & 6
6. Drydock #2 Area / 5th St Tie-In
7. Property Level Mitigation Strategies
8. Refreshments & Comments

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