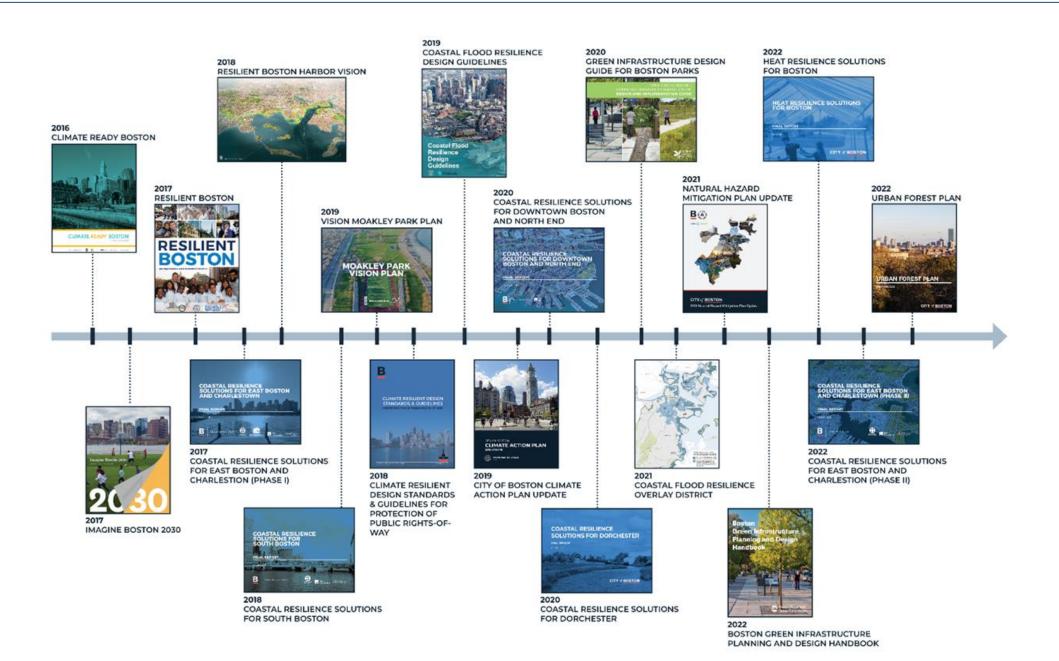
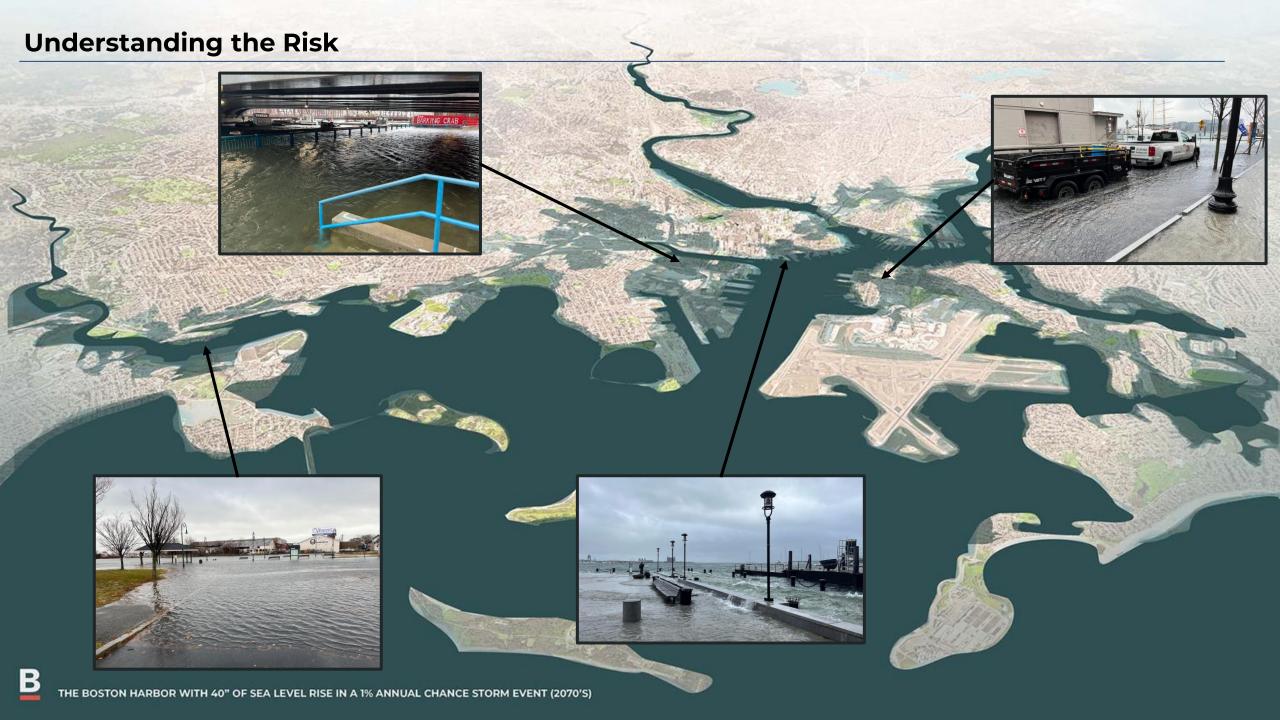


A Foundation of Community Driven, Data Informed Plans









Moving from Planning to Action SOUTH BOSTON EAST BOSTON McConnell Park, Dorchester Langone Park, North End Martin's Park, Fort Point Channel Photo: Dorchester Reporter Photo: Weston & Sampson Photo: Michael Van Valkenburah Associates. Inc.

Today's Storms

Strengthen Our Response to Today's Flooding

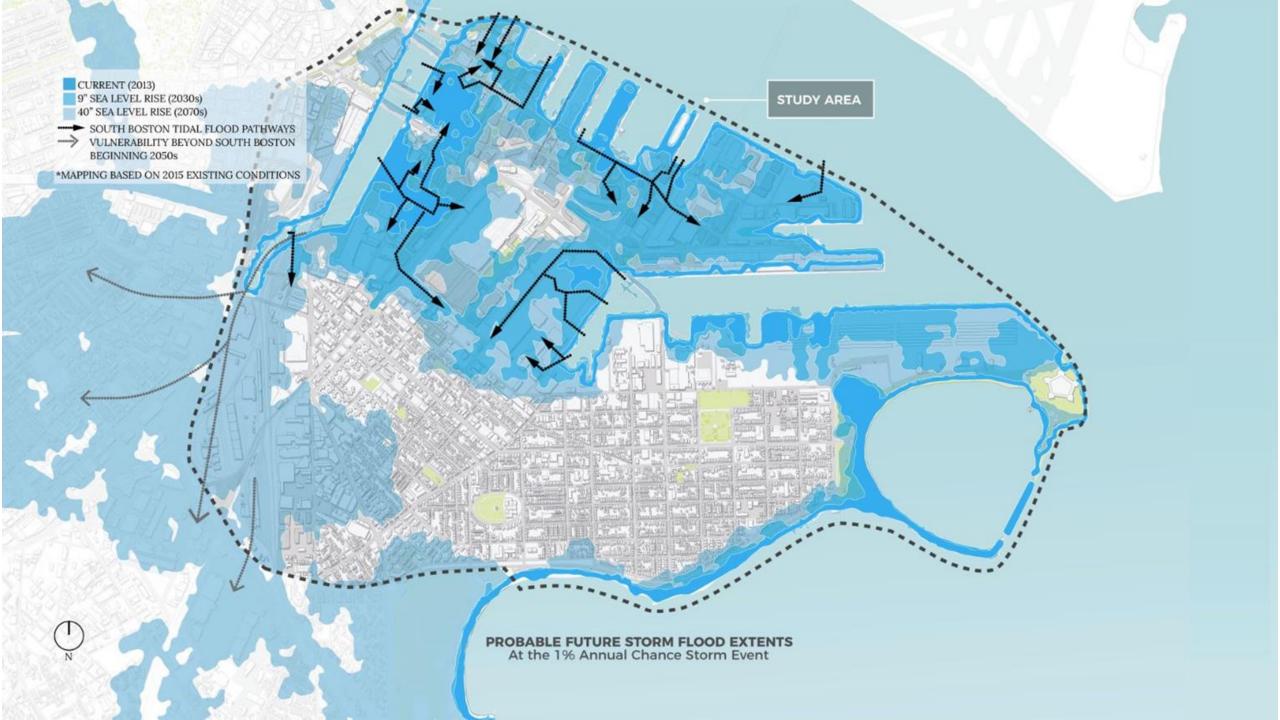
This Decade's Storms

Address Key 2030 Floodpaths

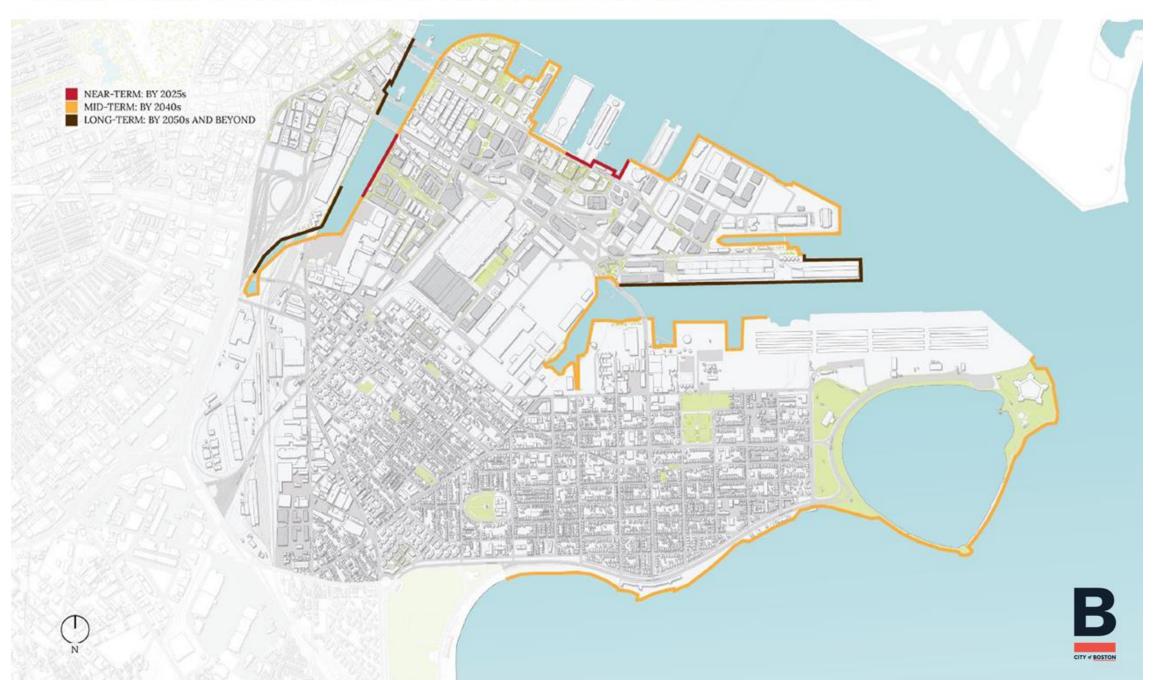
Beyond 2030

Transform Our 47 Miles of Coastline

Moving from Planning to Action: A Selection of Near Term Priority Areas Ryan Playground Lovejoy Wharf Charlestown Fort Point Channel Moakley **Navy Yard** Connectors Border **Morrissey Blvd** Wharf 1A & Constitution Flynn Marine Tenean Beach Street Lewis Moakley Beach Park Park Street Bennington Street

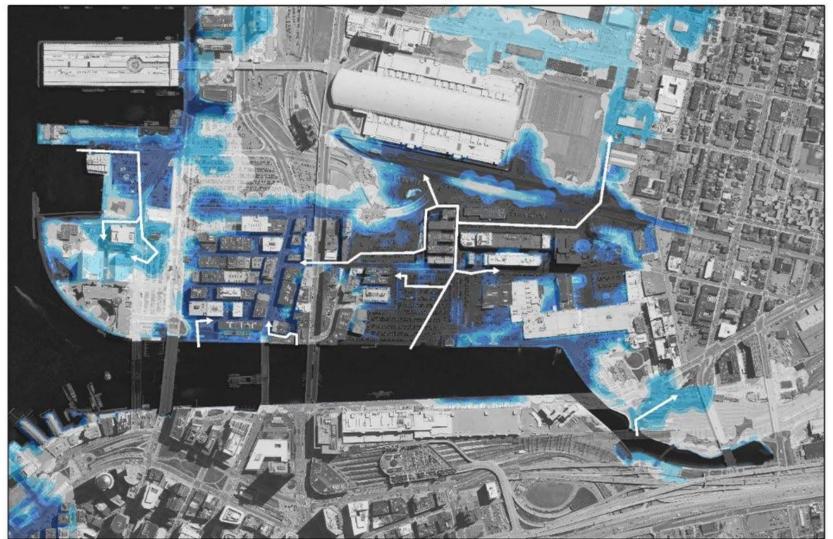


COASTAL RESILIENCE SOLUTIONS FOR SOUTH BOSTON PHASING PLAN

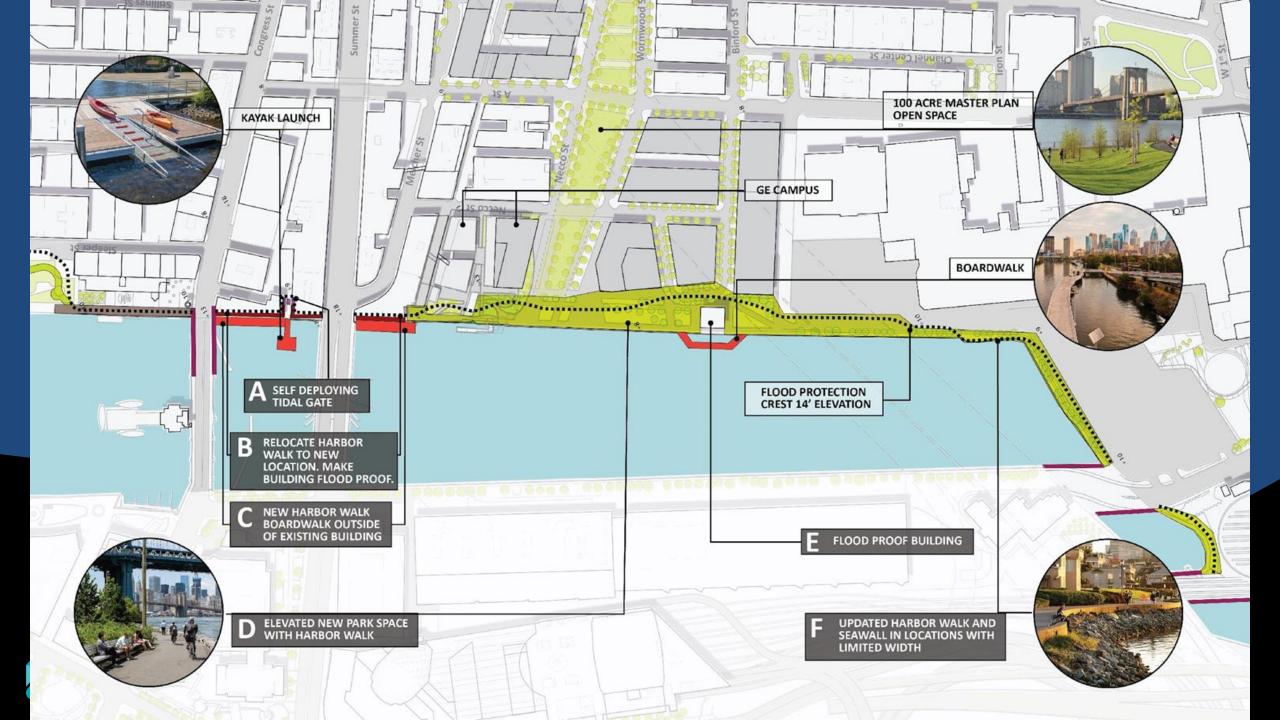


Flood Hazard Pathways That May Affect the Project

Fort Point Channel - Flood Pathway Analysis



"While there are some minor connections and fringe flooding areas that occur during the most extreme storm return period (1000- year), these connections are driven by water arriving from the Fort Point Channel flood entry points and not from other locations (e.g., Reserve Channel)." - Kirk Bosma, PE, Woods Hole Group



Resilient Fort Point Channel Infrastructure Project



Project Purpose:

Protect the Fort Point neighborhood and South Boston from seal level rise and coastal flooding.

The proposed Project will consist of a mix of earthen berms and walls for a 2,300 linear foot stretch along the eastern edge of Fort Point Channel, as well as several deployable features to maintain access to the Harborwalk.

Project Progress to Date:

- October 2018, Recommended in Coastal Resilience Solutions for South Boston
- January 2019, City Submits FEMA PDM 18 Application
- **June 2019**, Project "Identified for Further Review" by FEMA
- August 2019 FEMA Region 1 issues 1st RFI for project
- September 2019 FEMA visits project site with City/MEMA
- November 2019 FEMA EHP team visits City Archives
- January 2020 FEMA issues 2nd RFI for project
- August 2020 Project granted approval by FEMA to move forward to Environmental Assessment, stating that "the project is technically feasible and effective/cost effective"

Resilient Fort Point Channel Infrastructure Project



- February 2021 FEMA shares sequencing for environmental review, and decides to split review process, with their consultant handling NEPA and City consultant handling MEPA
- August 2021 FEMA indicates that a
 Conditional Letter of Map Revision (CLOMR) will now be required prior to a notification of award
- September 2021 FEMA Region 1 shares a memo stating that a CLOMR will now be required prior to a notification of award
- December 2021 ENF submitted to MEPA
- March 2022 MEPA Certificate Issued
- July 2022 BPDA Board authorizes advertise and issue RFP
- March 2023 Award Contract to AECOM
- November 2023 Contract executed with AECOM

Our Team

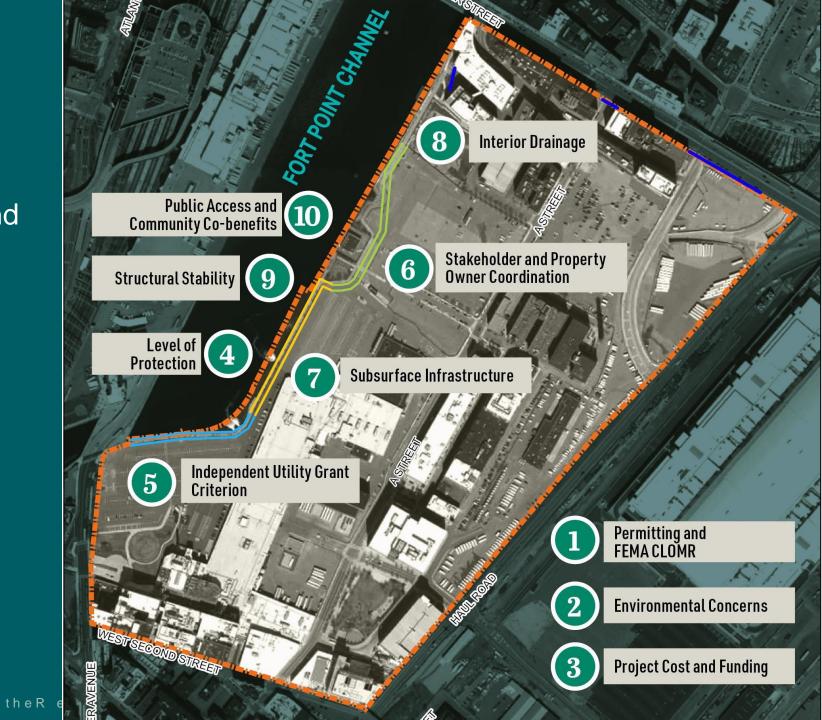
- AECOM
 - Project Manager
 - Civil and Structural Design, Permitting
- Weston & Sampson
 - Deputy Project Manager
 - Stormwater and Landscape Architecture Design, Environmental
- Woods Hole Group
 - Resilience Modeling, CLOMR, NPC
- CDW Consultants
 - Permitting
- GeoLogic
 - Drilling
- Regina Villa Associates
 - Outreach
- Brennan Consulting
 - Surveying



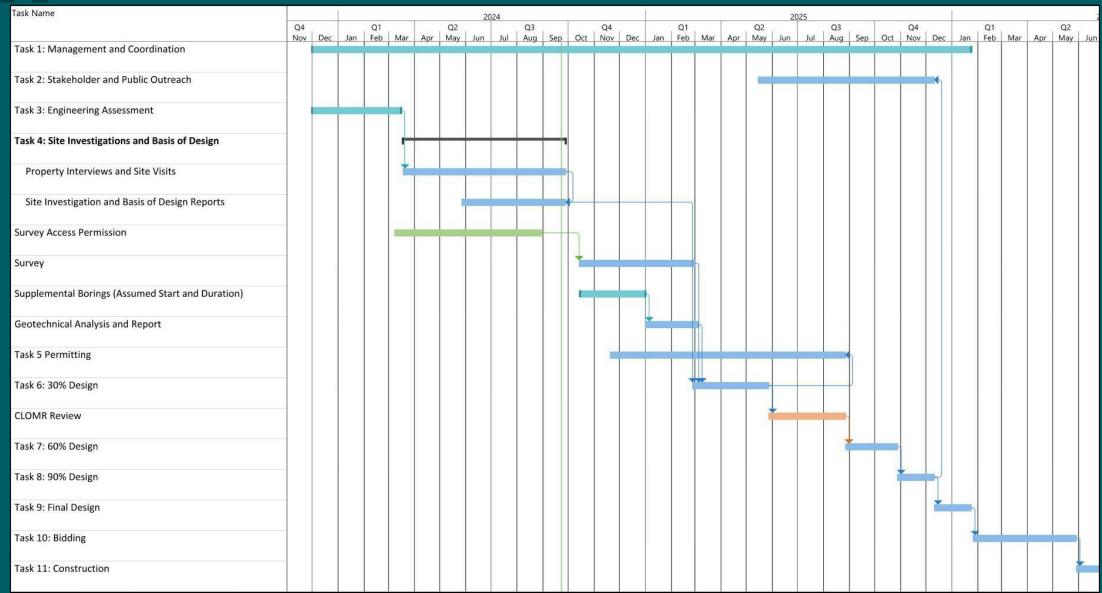


Project Considerations

 Mix of Technical, Financial, and Project Acceptance

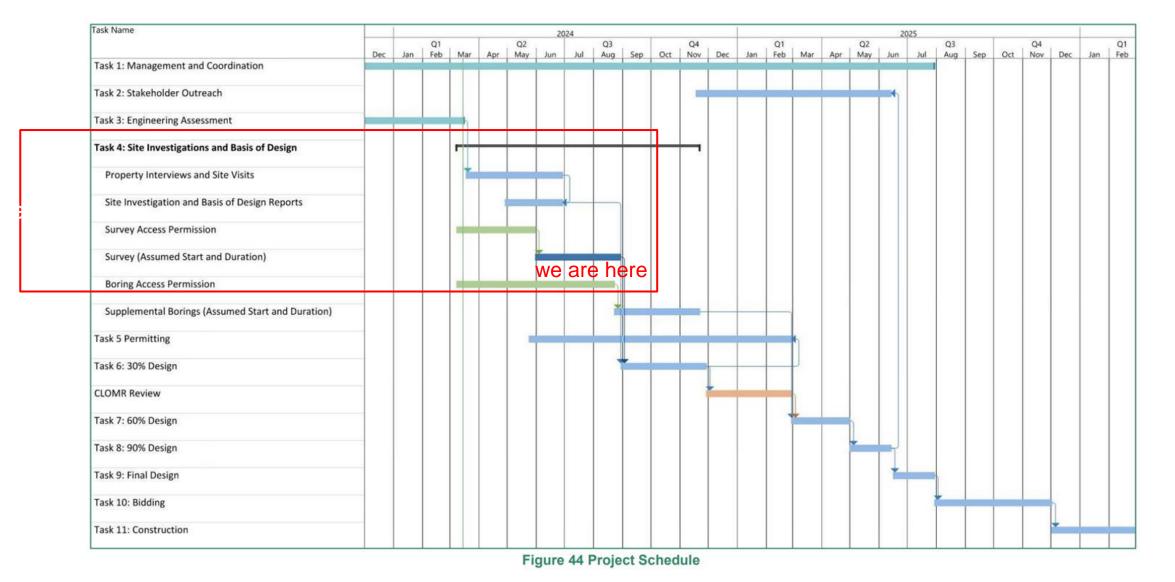


Approach and Schedule

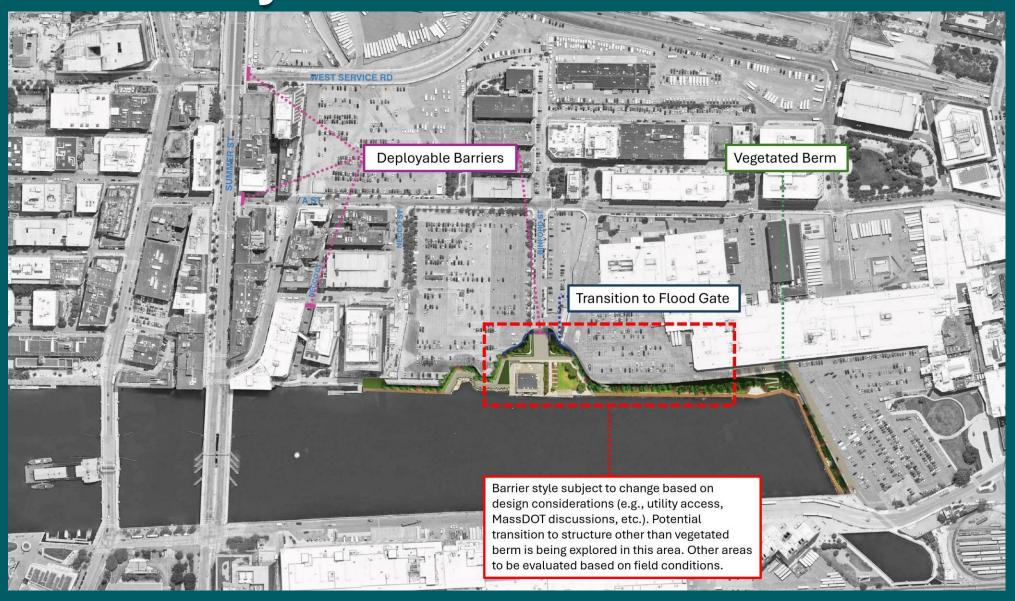


Project Schedule (as of 09/2024, prepared by AECOM)

Boston Planning and Development Agency Resilient Fort Point Channel Engineering Assessment Draft



Barrier Styles and Locations





Barrier Styles – Berm





Concepts – Final layout, configuration, and features to be determined





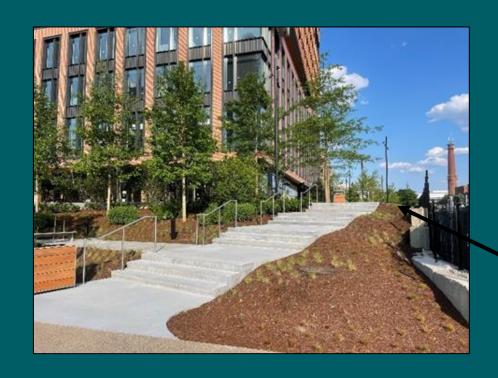
Barrier Styles – Flood Wall

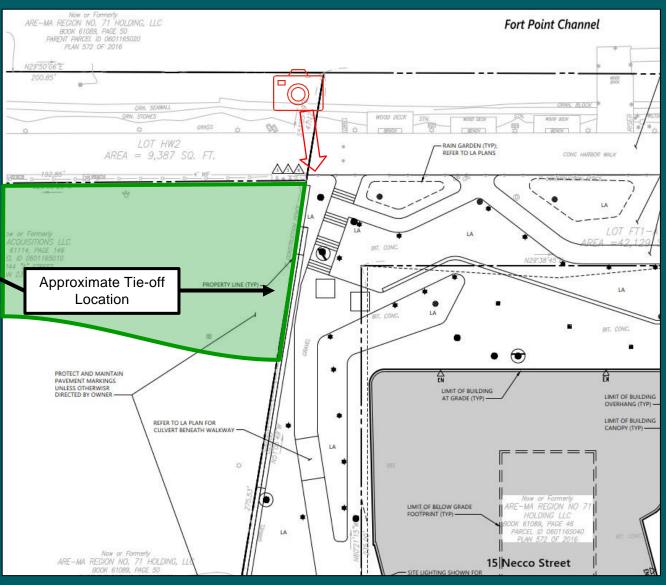
- Example barrier styles shown
- Minor landscaping features could be added to these walls





Barrier Tie-offs – Northern End

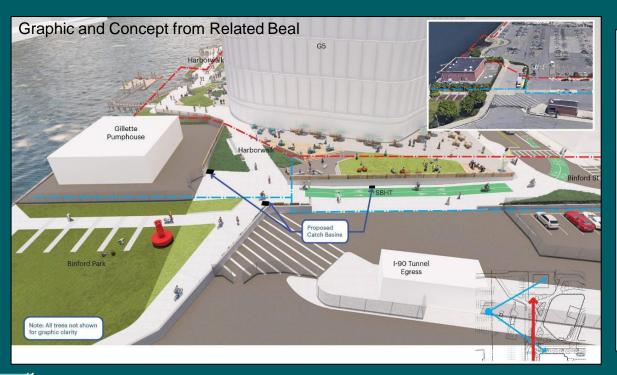


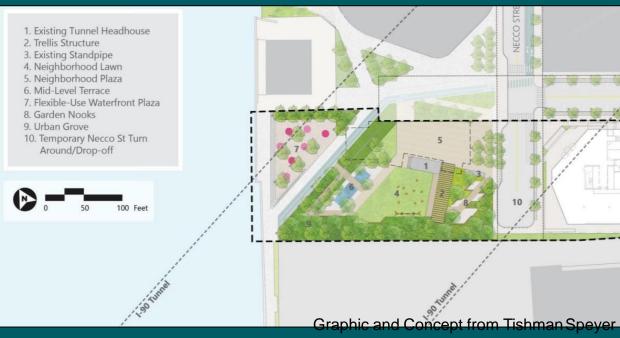




Binford Street Access and Gate

- Intent is to
 - Coordinate with property development
 - Continued access to Gillette Pumphouse while in operation
 - Allow maintenance and pedestrian access to Harborwalk and Binford St. Park
 - Continued access for I-90 Tunnel Egress







Binford Street Access and Gate

Gate styles have trade-offs between capital and operational costs



Stop Logs

Sliding Gate



Swinging Gate



Tilt-up Gate



Northern Deployable Barriers

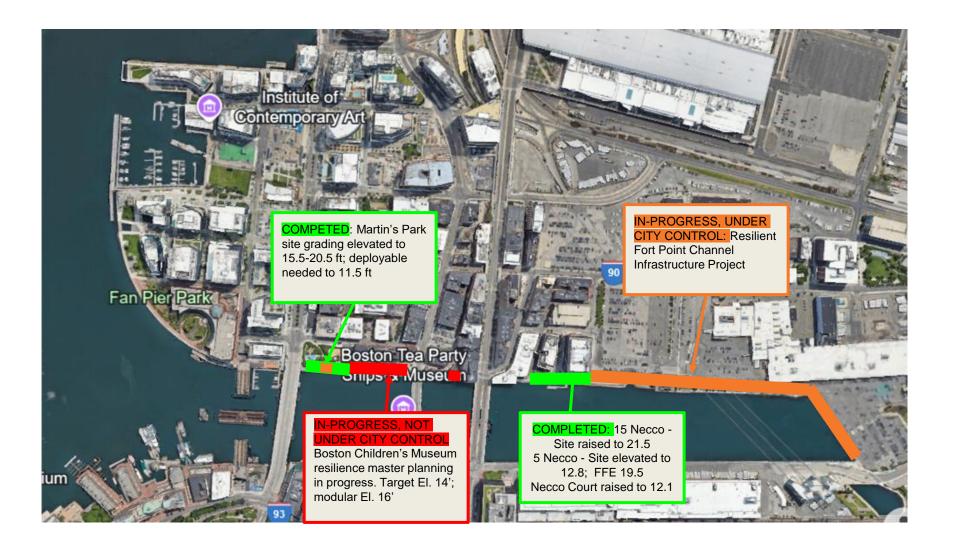
 Need for barriers within operational life of barriers is to be determined in future design phase







Related Resilience Initiatives



Key Project Stakeholders

<u>5-15 Necco</u>, National Development

244-284A Project, Related Beal

232 A St. Project, Tishman Speyer

Gillette



Stakeholder Project Status Summary

Project	Resilience Strategy	Status	Timeframe for design and construction	Outstanding Issues/Questions
232A St (Tishman and Speyer)	Raised grade across the site, El. 21.5, berm with minimized footprint	Board Approved	Unknown time frame	
244- 284 A St (Related Beal)	Raised grade across the site, integration with berm, El. 21.5; harborwalk elevated to address 2070 HAT	Board Approved	Anticipated phased construction Unknown time frame	Interim flood protection needed in the event project moves forward with Building G6 (A Street property).
15 Necco (National Development)	Raised grade across the site, integration with berm, El. 21.5;	Completed	Site has been raised; construction is complete	
5-6 Necco (National Development)	Resilience Retrofit of 5 Necco; FFE 19.5' Necco Court and Necco St improvements	Completed (need to double-check status of street elevations)	19th century wharf buildings have been retrofitted to 2050 DFE. Open space built to align with 15 Necco DFE	Modeling required to confirm Necco Court/Street sidewalk elevation is effective

244-284 A St Resilience Strategy

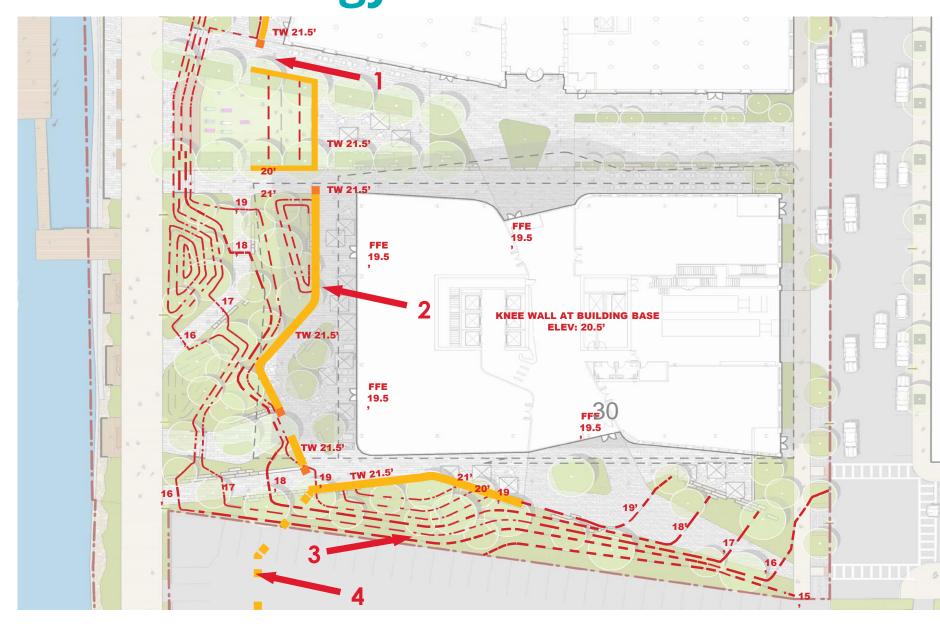
2070 Highest Astronomical Tide +16.71 (BCB) 40" SLR



15 Necco Resilience Strategy

- 1. Limited deployable protection locations where accessible paths connect to Harborwalk
- 2. Continuous flood protection at elevation +21.5'
- 3. Future park
 elevations will
 connect to continue
 flood protection
 along Fort Point
 Channel
- 4. Seamless integration of FEMA flood protection measures

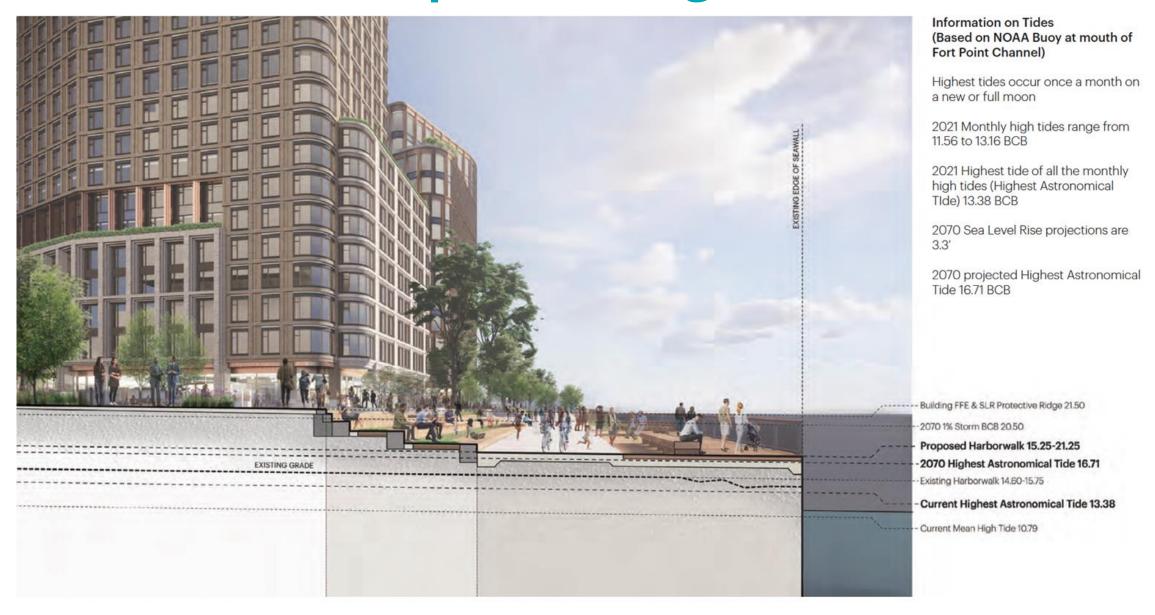




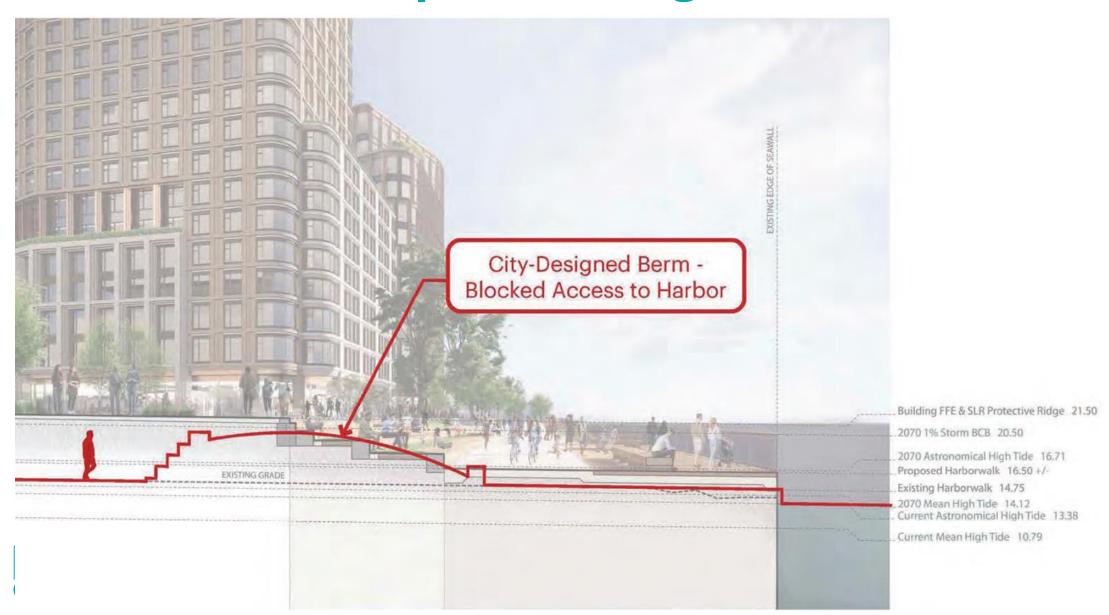
Project Design



244-284 A St Proposed Design at Harborwalk



244-284 A St Proposed Design at Harborwalk



Upcoming Project Activity

- Project survey
- Project geotechnical work
- 30% Design/CLOMR
- FEMA Award
- Community workshops
- Permitting
- Construction Design







