

# Lower Manhattan Coastal Resiliency Briefing

LMCR Quarterly January 24<sup>th</sup>, 2022



# Agenda

1. Introduction
2. Project Updates
  - Interim Flood Protection Measures (IFPM)
  - Brooklyn Bridge-Montgomery Coastal Resilience (BMCR)
  - Financial District and Seaport Climate Resilience Master Plan
  - Seaport Coastal Resilience (SPCR)
  - Brooklyn Bridge Esplanade (BBE)
  - LMCR: The Battery
  - Battery Park City Resilience Projects
3. Upcoming LMCR engagement

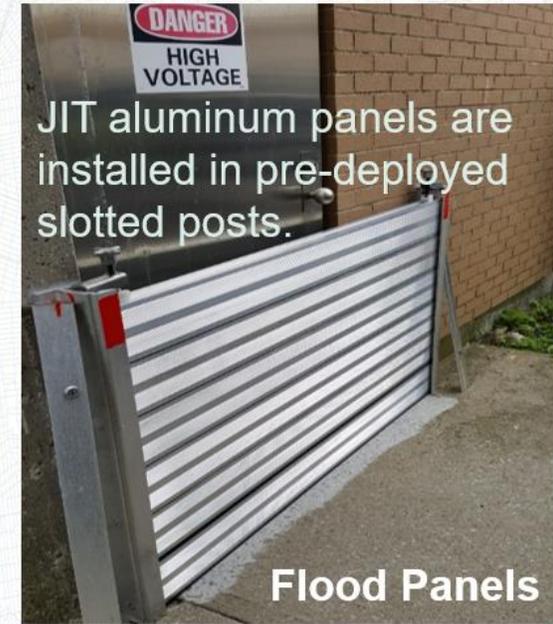
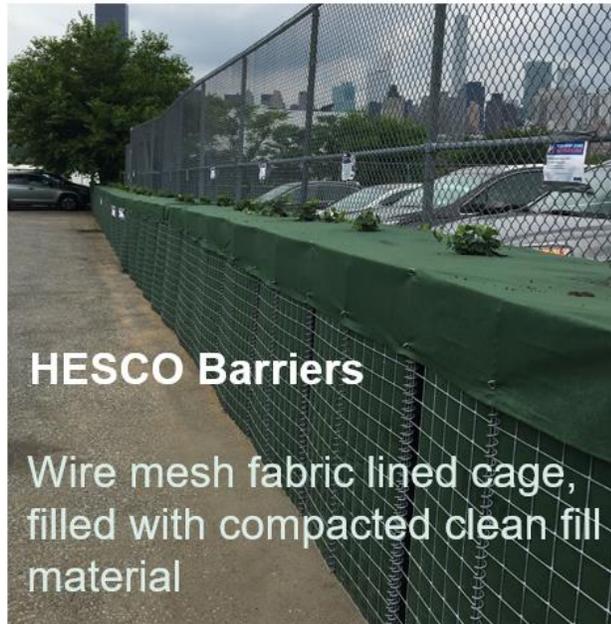
# Tremendous Momentum on LMCR Projects



# INTERIM FLOOD PROTECTION MEASURES

## Interim Flood Protection Measures (IFPM)

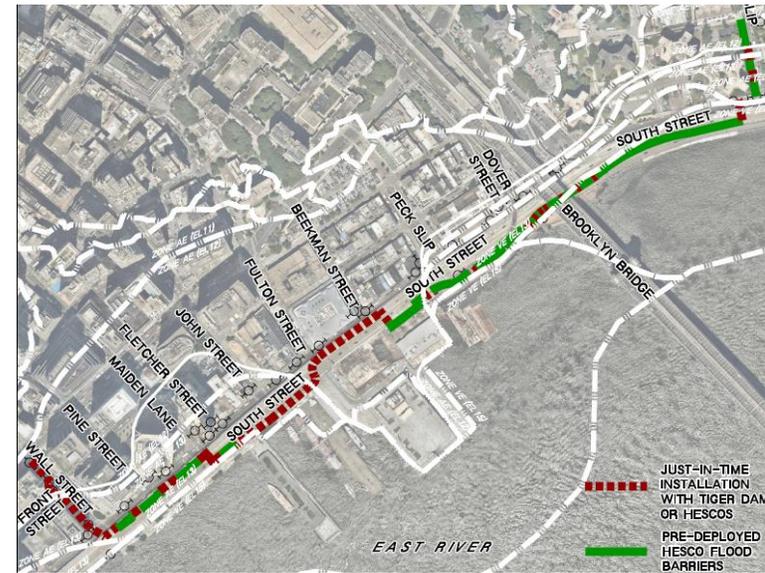
- Created in 2016 to provide temporary storm surge flood risk reduction at critical city facilities and low-lying neighborhoods while NYC continues to advance longer-term coastal protection
- Utilizes HESCO barriers, Tiger Dams and Flood Panels
- Combination of pre-deployed and just-in-time measures



# IFPM Lower Manhattan Project Updates

## IFPM110 South Street Seaport (SSSP)

- Operational 7/1/2019
- Re-designing for 2022 coastal storm season due to changes in site conditions:
  - Coordination with BBE and BMCR construction
  - Infrastructure in some sections have completed permanent mitigation
  - Large private construction projects in alignment



# IFPM Lower Manhattan Project Updates

## SSSP Extension\*\* and Tribeca\*\* Feasibility

- Analysis restarted as of January 2022
  - Analysis expected to be completed by summer 2022 to determine if there is a feasible option, and if so, where



SSSP Extension (Wall Street to Battery Park)



Tribeca (Chambers Street to 11th Street)



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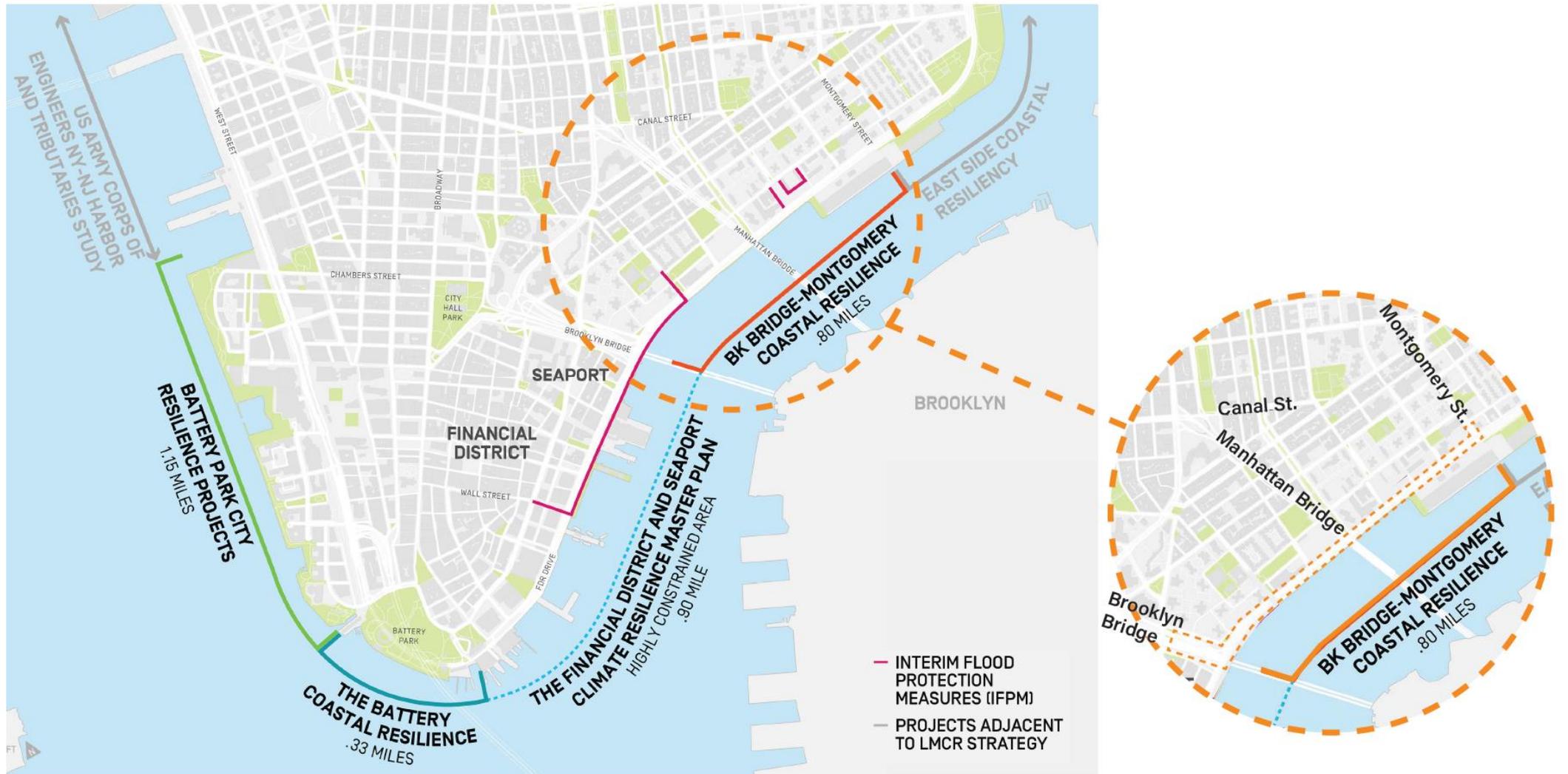
# BK BRIDGE–MONTGOMERY COASTAL RESILIENCY (BMCR)

## INTERIM STATUS UPDATE: PRE-CONSTRUCTION PROCUREMENT PHASE

COMMUNITY BOARD 1 (CB1) ENVIRONMENTAL PROTECTION COMMITTEE  
VIRTUAL ZOOM MEETING  
FOR PRESENTATION PURPOSES ONLY

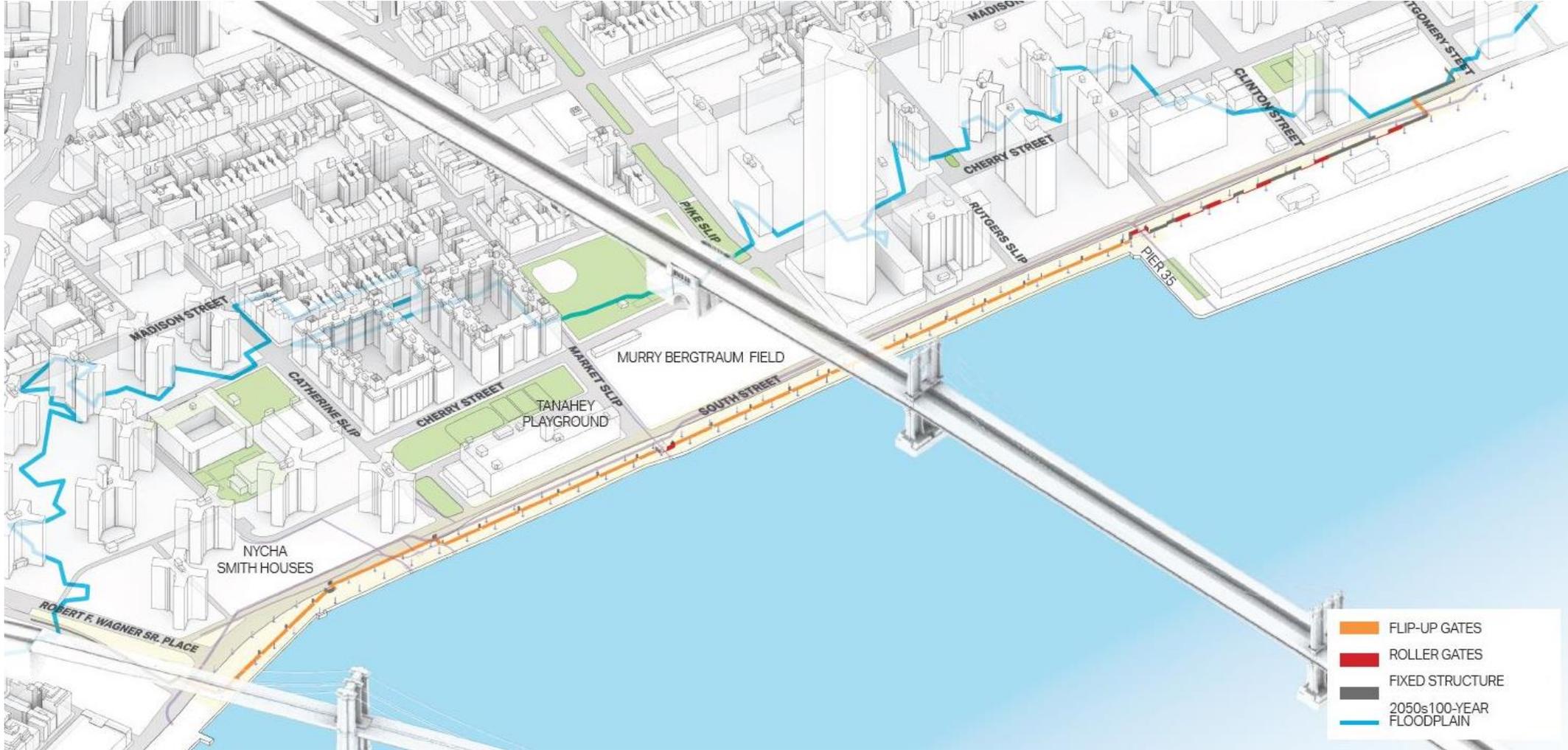
# BK Bridge–Montgomery Coastal Resiliency (BMCR)

## Project Overview



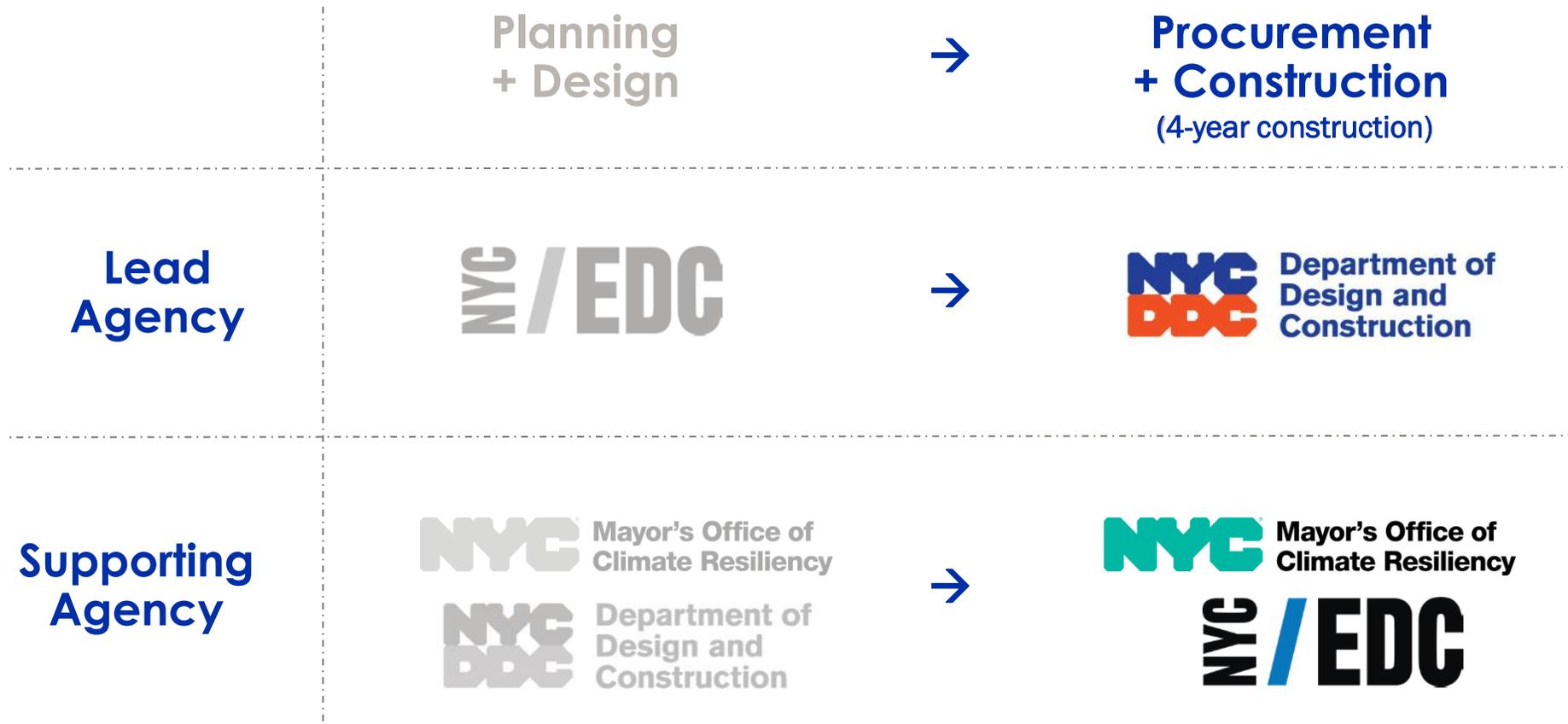
# BK Bridge–Montgomery Coastal Resiliency (BMCR)

## Project Overview



# BK Bridge–Montgomery Coastal Resiliency (BMCR)

## Managing City Agencies



# BK Bridge–Montgomery Coastal Resiliency (BMCR)

## Contract Procurement Status, Pre-Construction

### FUNDING

\$522 Million (\$172M HUD CDBG-NDR + \$350M New York City Funds)

### PROCUREMENT STATUS

1– DDC has received final design package from EDC, finalizing the **Procurement Package** for bid advertisement.

2– Contractor proposal submissions to be evaluated by DDC & PM Team.

3– after selecting **Lowest Bidder**, registration process begins as outlined below.

### CONTRACT REGISTRATION

#### Next Steps: Registration Review & Approvals



# FIDI-SEAPORT MASTER PLAN

# Financial District and Seaport Climate Resilience Master Plan

Grounded in extensive community conversations, collaboration, and regulatory feedback, this plan lays out a shared vision that is feasible, implementable and provides a dynamic urban and waterfront experience.



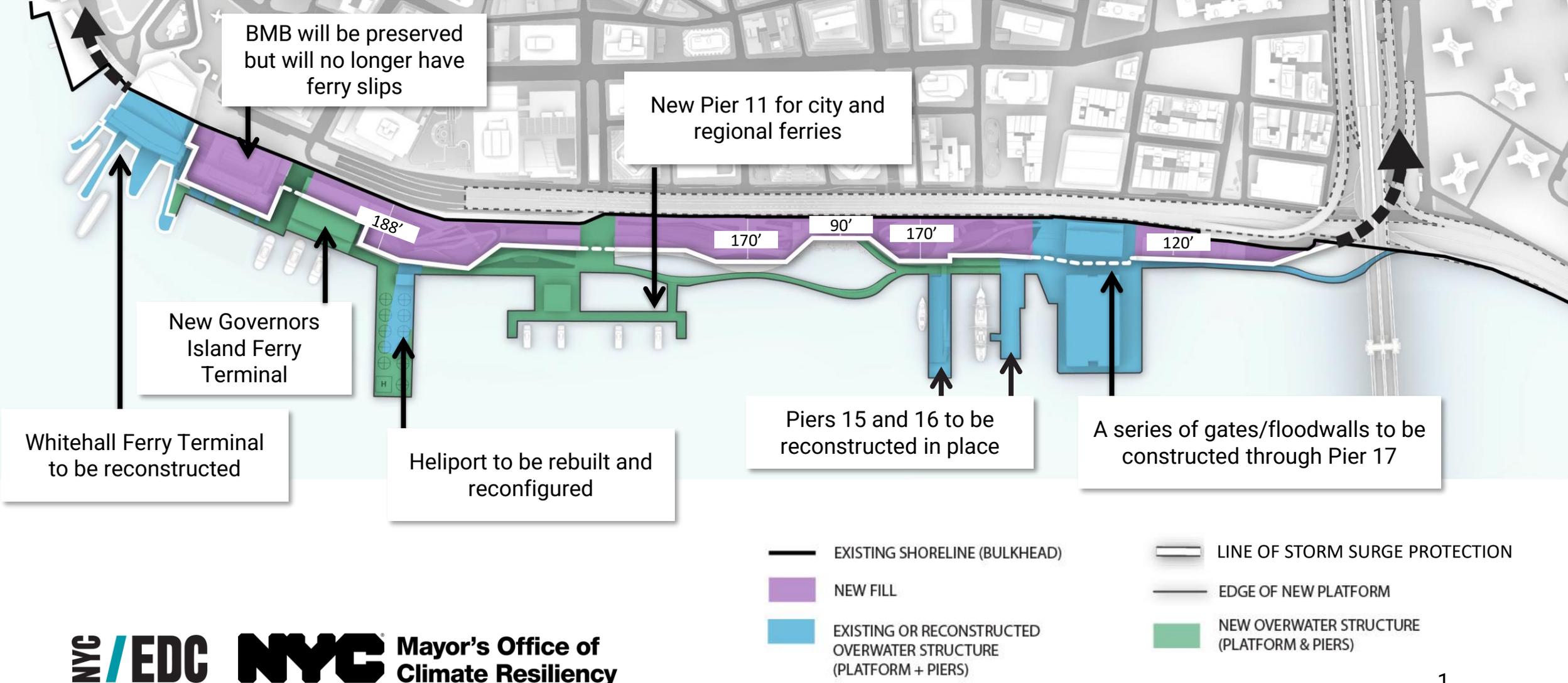
## What is a Master Plan?

- Shared City-community framework for long-term decision-making
- Identifies core infrastructure and sets aside flexible space for future programming
- Intentionally flexible, not set-in-stone

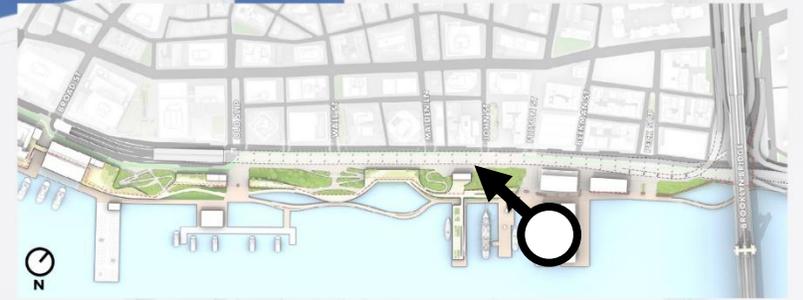
## Highlights of Our Design:

- Two levels of flood protection: a lower level for daily tidal flooding and an upper level for coastal storms
- Extends into the water up to a full city block at some locations (up to 200 feet) and down to a half-block (90 feet)
- Only includes 1-2 story buildings—no residential or office
- Works with or without the FDR viaduct

# This plan proposes to extend the Manhattan shoreline and reconstruct maritime facilities. With funding in place, will take 15-20 years to complete.



# The Master Plan protects Lower Manhattan from daily tidal flooding and coastal storms.



Shoreline raised 3-5 feet protects against daily tidal flooding.

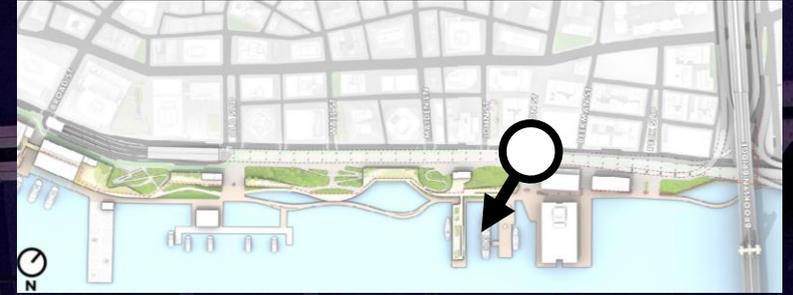
15-18-foot buried floodwalls protect against coastal storms.

Floodgates in select locations close before coastal storms.

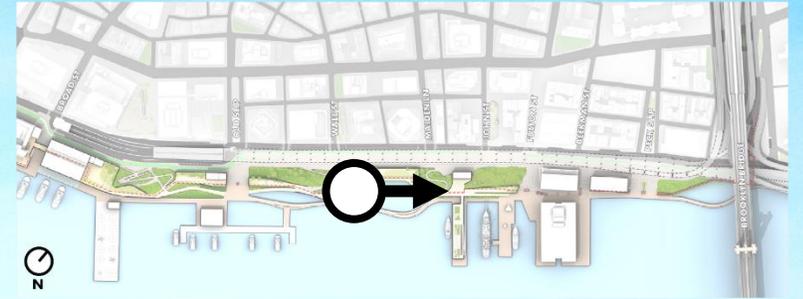
# The Master Plan integrates climate resilience infrastructure into the city.

Universally-accessible connections to the waterfront

Space for community-serving uses



# The Master Plan enhances the public waterfront.



**Creating new multi-level waterfront open spaces**

**Preserving & enhancing East River ecology**



# Next Steps

1. Advance design of the overall master plan
2. Advocate for funding with local, state, and federal partners
3. Design and build the Seaport Coastal Resilience capital project
4. Continue to work closely with the community, advocates, and local, state, and federal elected officials to ensure the master plan continues to represent a shared vision between the community and the City

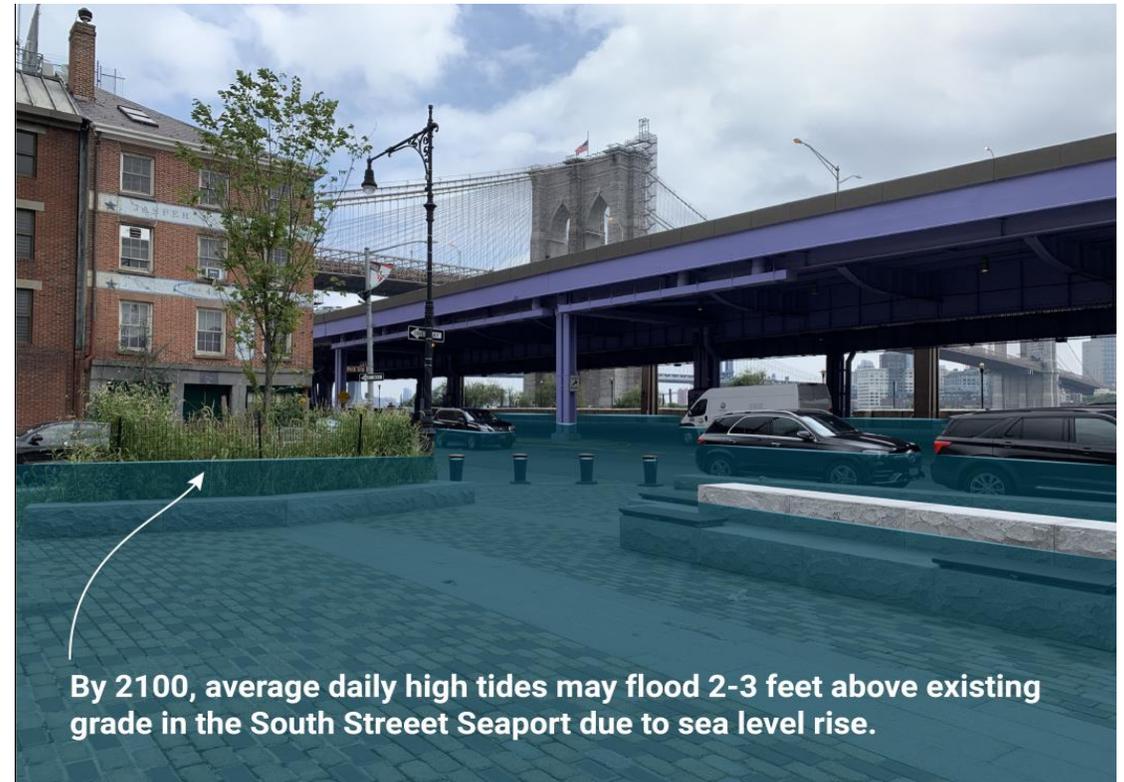
***We encourage you to browse the full Master Plan at [fidiseaportclimate.nyc](https://fidiseaportclimate.nyc)!***

# SEAPORT COASTAL RESILIENCE (SPCR)

# Why the Seaport?

**Seaport Coastal Resilience is a near-term investment to protect one of the most vulnerable and low-lying areas in Lower Manhattan**

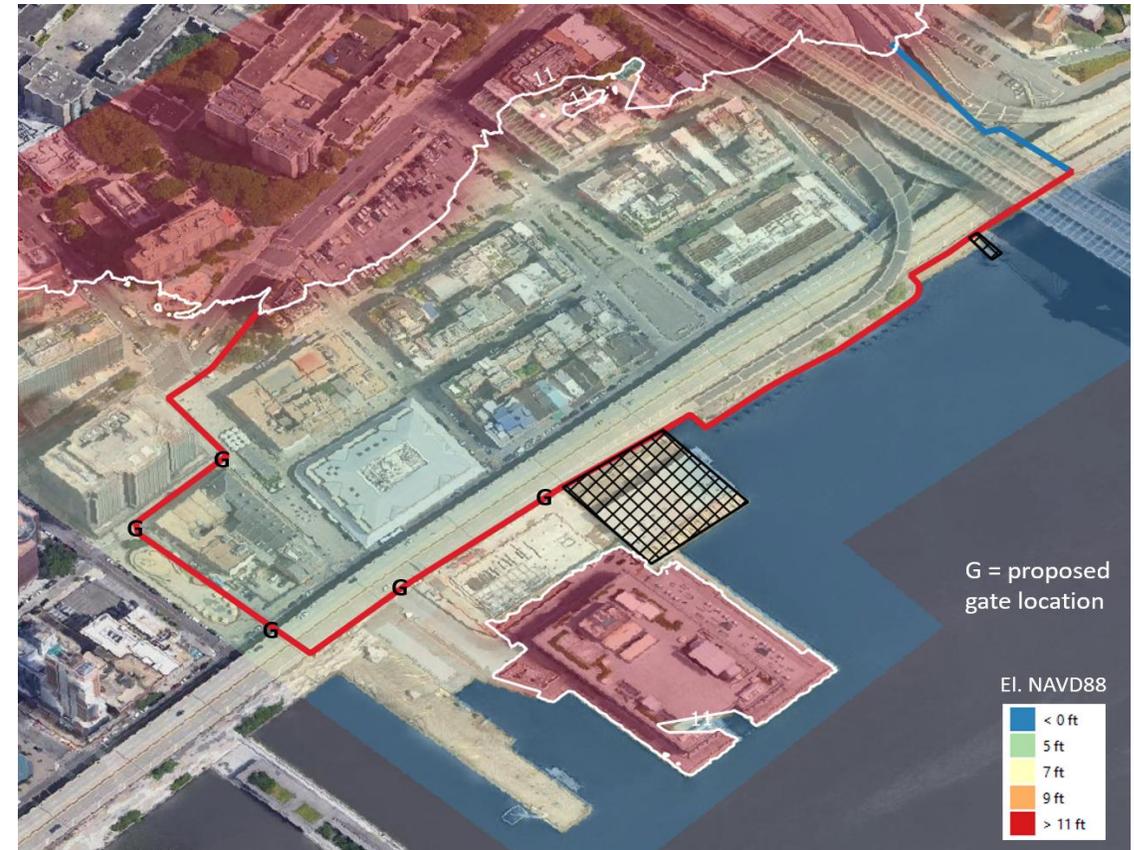
- The Seaport District is particularly low-lying, which makes it highly vulnerable to climate change and sea level rise
- Without action, this area will begin to see frequent flooding by the 2040s, monthly flooding by the 2050s, and daily flooding by the 2080s
- The area is also at risk from coastal storms and extreme precipitation and these risks will only continue to increase over time with climate change
- This area is at risk of a bath-tub effect because the waterfront at a higher elevation than the adjacent upland neighborhood, allowing water to be trapped once it overtops the bulkhead



# What is SPCR?

## Creating a more resilient Seaport by addressing sea level rise, drainage risks, and improved waterfront access

- To address climate risks in this area, this project proposes raising the shoreline 3-5 feet in the area from the Brooklyn Bridge to Imagination Playground
  - This will protect against sea level rise through 2100, and storm surge from the current day 50-year coastal storm
- To improve stormwater management, this project proposes a mix of green and grey infrastructure solutions
- To enhance the overall waterfront experience, this project proposes improving the esplanade and providing new public amenities



# Current Status and Next Steps

**NYCEDC & MOCR will continue to coordinate closely with the community throughout design process**

## Funding:

*Project is in early stages of planning and the final scope will be based on funding available which may include:*

- **\$170M** in City Capital (\$110M Mayor de Blasio previously announced + an additional \$60M identified)
- Potential for up to **\$50M** from FEMA, pending BRIC application
- **\$8.8M** from the Howard Hughes Corporation to go towards the waterfront esplanade and public amenities

## Timeline:

- Once design commences, project is anticipated to take 5 years to complete

## Next Steps:

- Begin procurement of design team in Summer of 2022, pending notice on FEMA funding
- Continued community engagement to shape design

# Brooklyn Bridge Esplanade

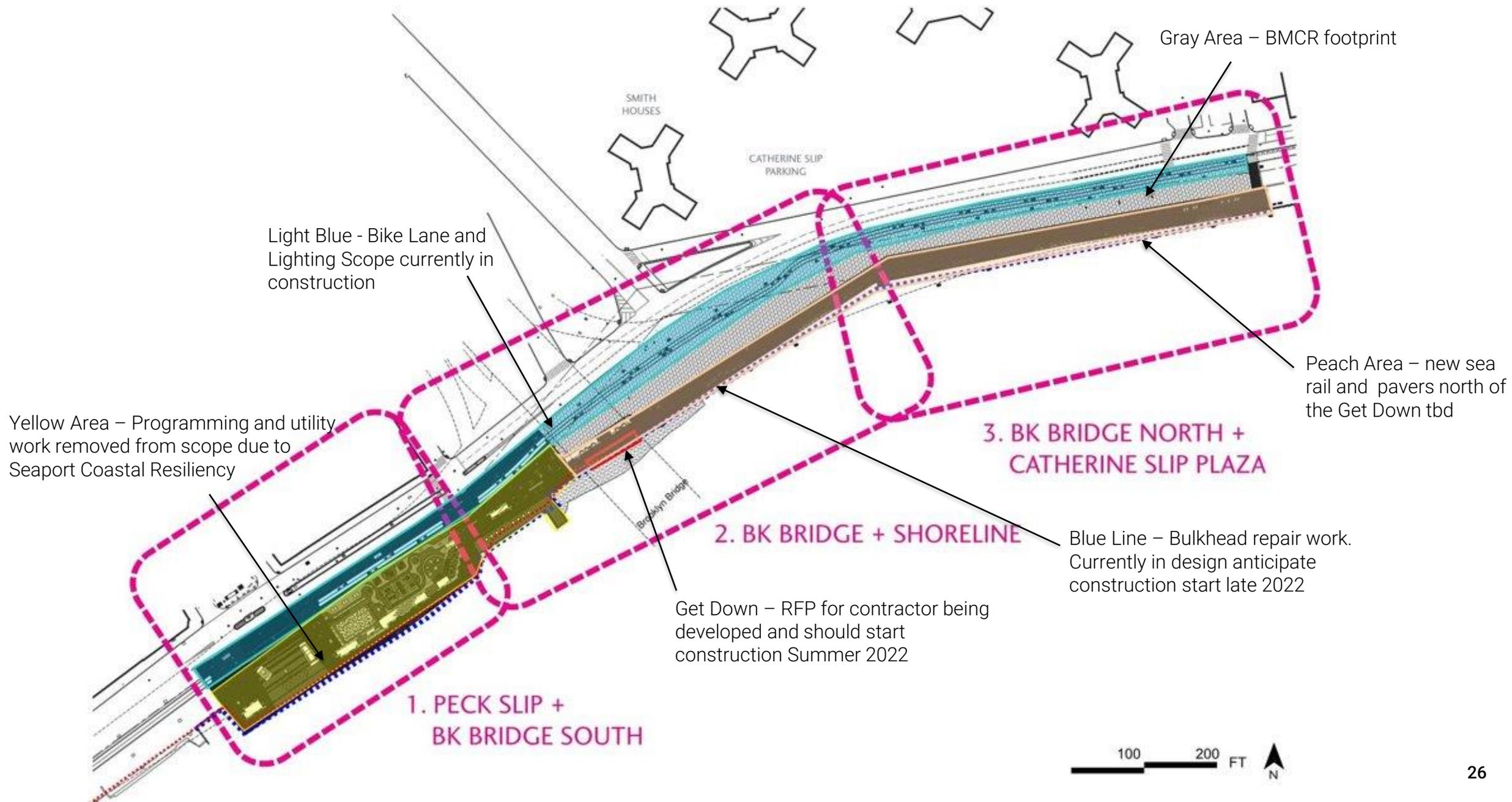
# Brooklyn Bridge Esplanade

## Status

- Coordinating with FiDi Seaport Coastal Resiliency
- Designing repair for the bulkhead
- Construction of the curb, bike lane and overhead lighting currently on going. Anticipate completion Spring 2022
- RFP for the get-down being issued. Anticipate construction start summer 2022
- Original Project Funding
  - \$15M - US Housing and Urban Development Community Development Block Grant (HUD CDBG) administered by LMDC
  - \$5M - Office of the Manhattan Borough President, Councilmember Margaret Chin
  - \$5M – City Capital added to address necessary bulkhead reconstruction
  - \$5M – Additional City Capital

## Conceptual Rendering – Get Down





LMCR: BATTERY

# LMCR - The Battery

EDC managing on Parks behalf

Budget: \$164 million

## Public Meetings and Stakeholder Input Coordination

- Coordination with BPCA on both resiliency projects
- Coordination with stakeholders including BPCA, TBTA, NPS, DEP, NYCDOT, PDC, USACOE, NYSDEC
- Will be attending future Community Board meeting prior to final PDC and design submission

## Project Progress

- Previously presented to the Community Board 9/21
- PDC Preliminary approval: November 2021
- 50% Design complete: October 2021
- Design process includes Envision certification program
- Advancing design on wharf repair to ensure continuous NPS operations to Statue of Liberty
- Construction Management team onboarded – Hunter Roberts Construction Group



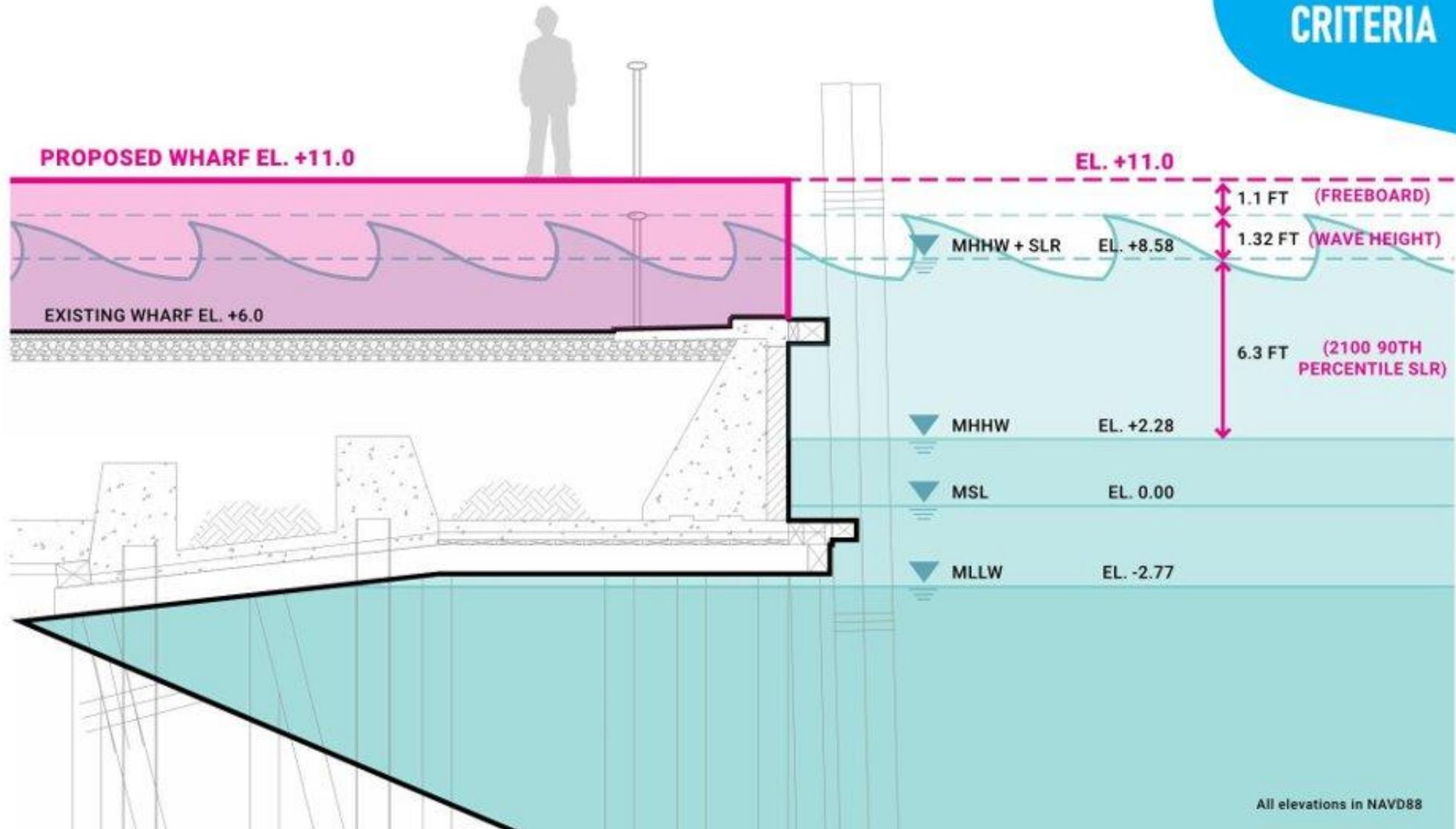
Proposed Design of Battery Wharf at Gardens of Remembrance with the East Coast Memorial in background

# LMCR - The Battery: Site Plan



# Wharf elevation

**DESIGN  
CRITERIA**



All elevations in NAVD88

# Design goals



## Prepare for Climate Change

1. Reconstruct and elevate the wharf approximately 5 feet to address its deteriorating condition while also taking into account future sea level rise.
2. Tie into adjacent resilience projects.
3. Improve drainage.



## Support Site Uses

1. Accommodate Statue of Liberty, Ellis Island, and Water Taxi vessels during and after construction.
2. Prioritize universal design.
3. Maintain sufficient seating.



## Preserve and Enhance Park Character

1. Maximize visibility of water/edge.
2. Minimize disturbance to physical structures, view corridors, and character of park.
3. Conserve existing artworks.
4. Minimize adverse impacts on historic structures and trees.
5. Reuse existing site materials.
6. Maximize sustainability of design/construction.
7. Provide new planting and public amenities.
8. Protect the park's historic resources.

# LMCR - The Battery – Upcoming Milestones



Proposed Design of Battery Wharf from Bosque Pathway in foreground and raise wharf in background

- 75% Design Documents – Spring 2022
- Community Board Presentation – June 2022
- Final PDC – Summer 2022
- 100% Design Documents – Fall 2022
- Construction Start – Spring 2023

# BPCA RESILIENCY PROJECTS

# Battery Park City Update

## BPC Ballfields Resiliency

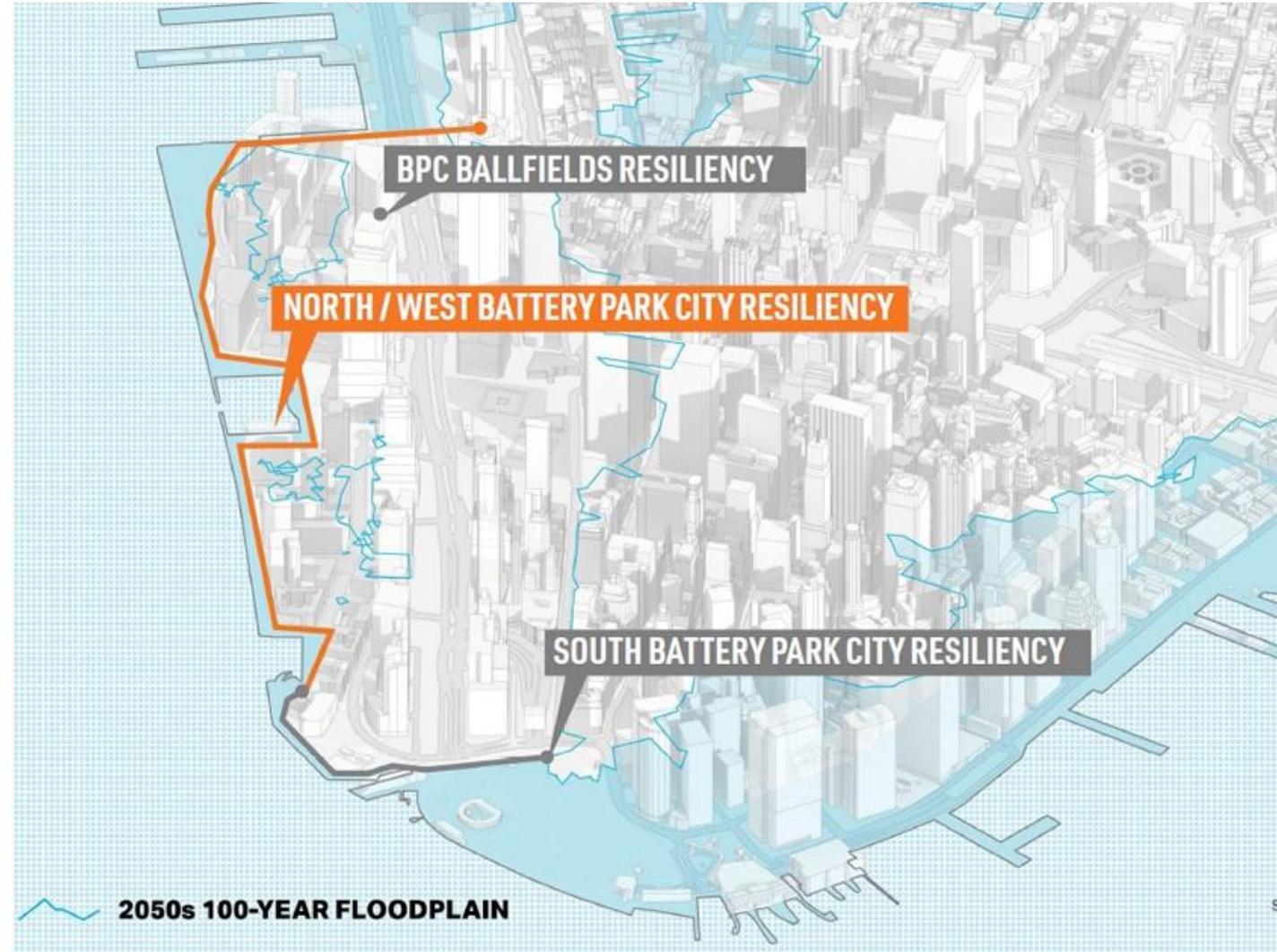
- Construction Substantially Complete
- Tree planting – Spring 2022

## South BPC Resiliency

- DEIS underway
  - Public Scoping: Spring 2022
- Construction RFP MJH & Wagner Park – February 2022
- Construction RFP Pier A Plaza/Battery – Spring 2022
- Construction Start: Summer 2022

## North/West BPC Resiliency

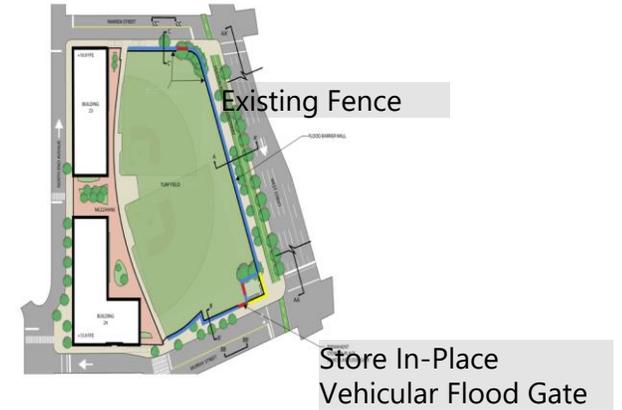
- PDB Shortlist Published
- PDB RFP release late-January 2022
- Progressive Design-Build Contractor Selection: Spring 2022



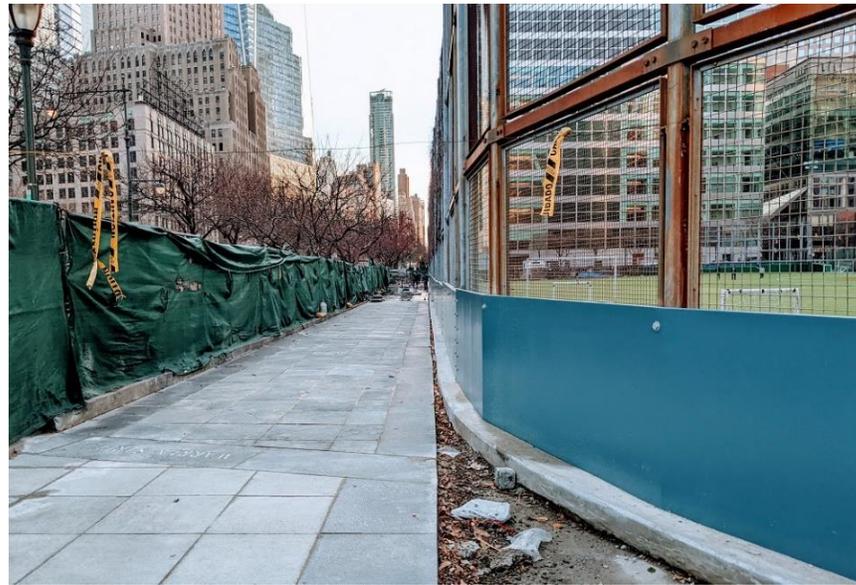
# Battery Park City Update

## Ballfields/Community Center Resiliency

- **Substantial Construction Completed** - December 2021
- **Tree Planting** – Spring 2022



Murray Street



West Street

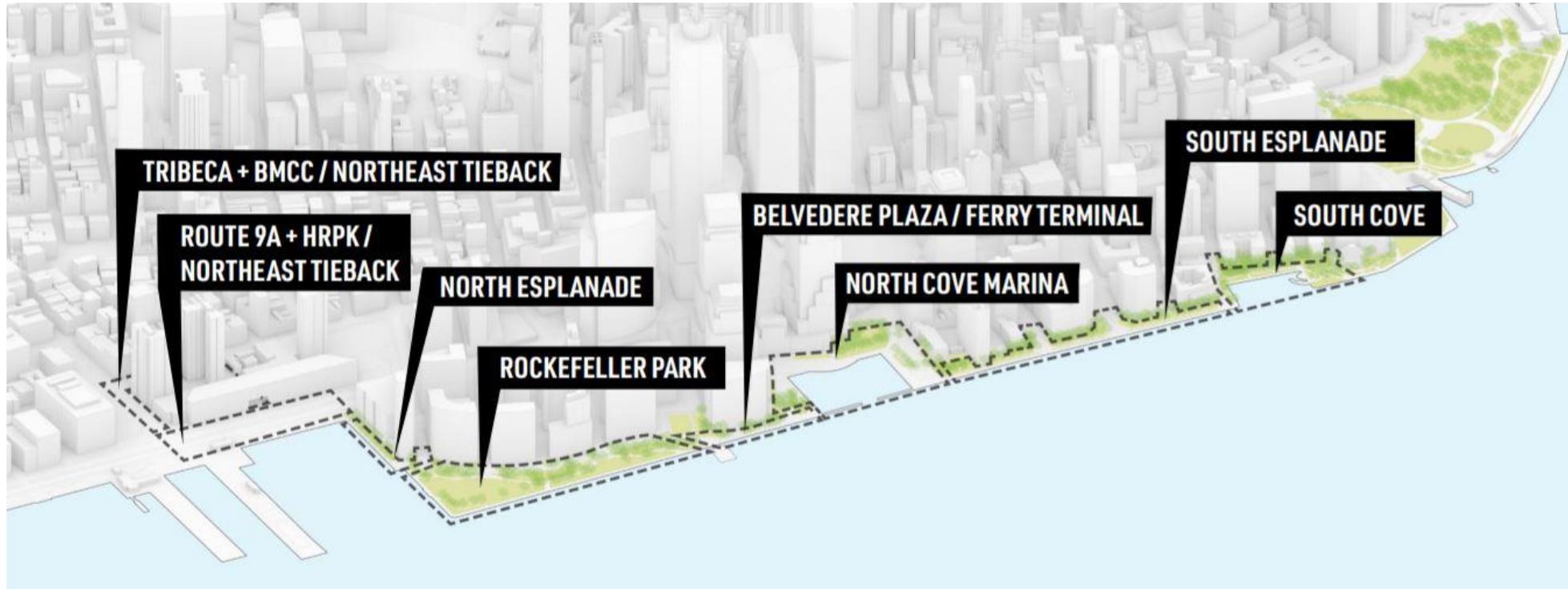


Warren Street

# Battery Park City Update

## North/West Battery Park City Resiliency

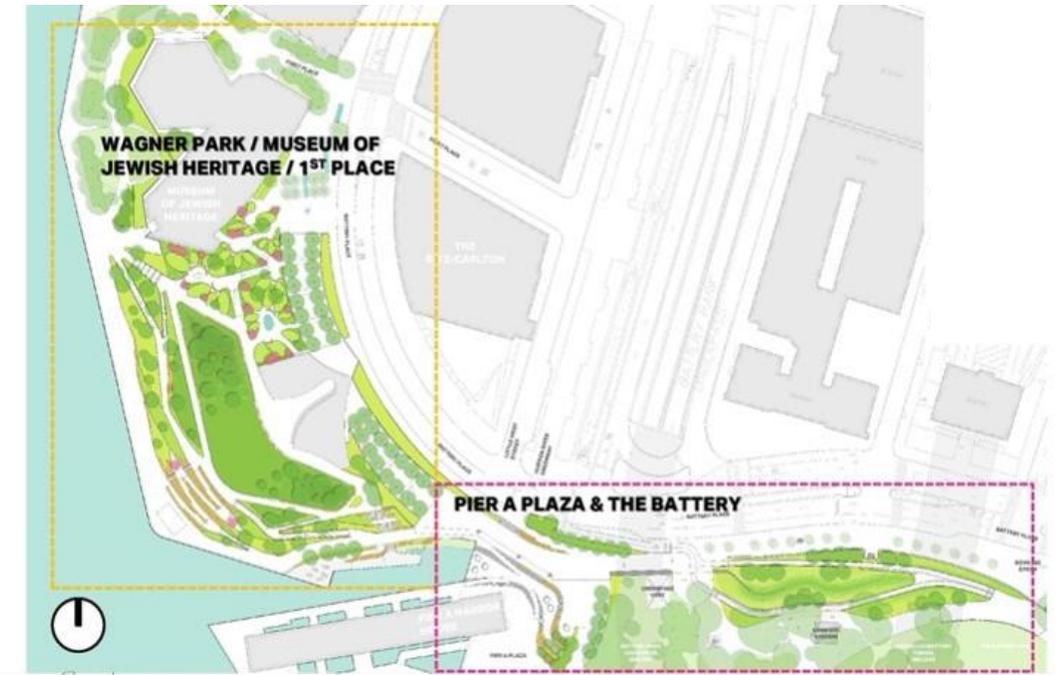
- **Project Kickoff:** June 2021
- **Public Meeting #1** – August 4, 2021
- **Public Meeting #2** - December 16, 2021
- **Public Walkshops:**
  - October 28, 2021
  - November 4, 2021
  - November 13, 2021
- **PDB RFQ Issuance:** September 2021
- **PDB RFP Issuance:** Late-January 2022
- **PDB Contractor Selection:** Spring 2022



# Battery Park City Update

## South Battery Park City Resiliency

- **DEIS in progress.**
  - **Public Scoping:** Spring 2022
- **Construction Start:** Summer 2022
  - **MJH & Wagner Park Construction RFP Issuance:** February 2022
  - **Pier A/Battery & Interior Drainage Construction RFP Issuance:** Spring 2022
- **Interior Drainage 100% Design:** April 2022
- **Final PDC Approval:** Spring 2022



# LMCR UPCOMING ENGAGEMENT AND MILESTONES

# Upcoming LMCR Public Engagement and Milestones

Projects	Timeline			
	January	February	March	Q2/Q3
Battery Park City South	CB 1 Environmental Protection			Public Scoping Hearing (Spring 2022) Construction Start (Summer 2022)
Battery Park City North/ West	CB 1 Environmental Protection			
The Battery	CB 1 Environmental Protection			Public Meeting
FiDi-Seaport	CB 1 Environmental Protection		Release of appendices on master plan website – <a href="http://fidiseaportclimate.nyc">fidiseaportclimate.nyc</a>	CCLM Meeting (TBD)
BMCR	CB 1 Environmental Protection			Construction Start (Summer 2022)
Overall LMCR Strategy	CB 1 Environmental Protection			CB1 Environmental Protection (Q2)