

North/West Battery Park City Resiliency Project Update

June 6, 2024



**Battery Park
City Authority**



Agenda

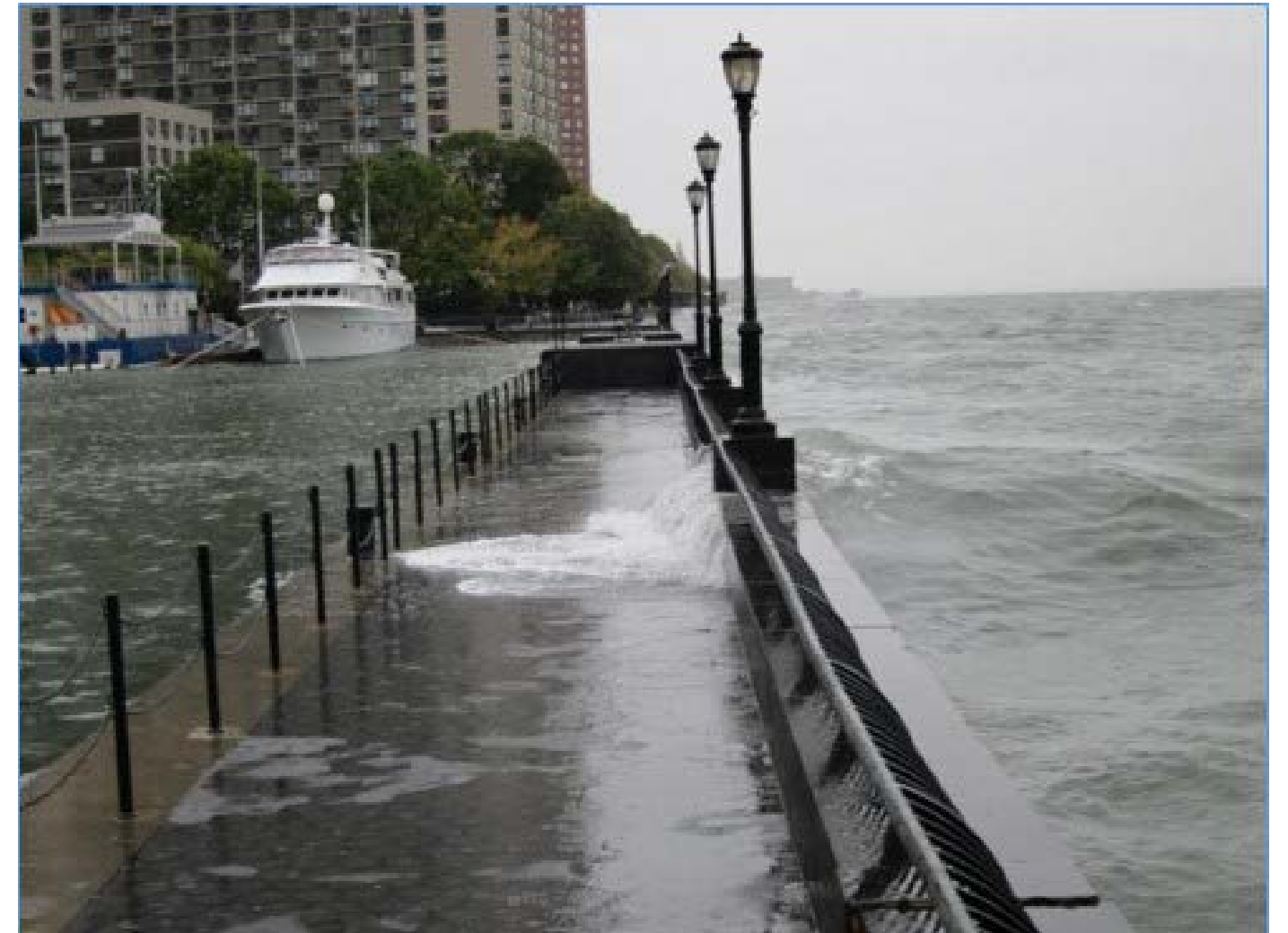
- 1. Why We're Here**
- 2. South Battery Park City Resiliency Project Update**
- 3. North/West Battery Park City Resiliency Project Update**
- 4. North/West Battery Park City Resiliency Construction Strategy**
- 5. Next Steps**



Why We're Here

Why We're Here

- Superstorm Sandy resulted in **44 fatalities** and billions in property damage in New York City, with the frequency and intensity of storms only increasing
- By the 2050s, **37% of buildings in Lower Manhattan and supporting infrastructure** will be at risk from storm surge
- By the 2050's, **Heat waves projected to be 250% more frequent and 50% longer**
- By 2100, almost **50% of buildings** will be at risk from storm surge, and **20% of Lower Manhattan's streets** will be at risk of daily flooding due to over six feet of projected sea-level rise
- More frequent heavy rain and cloudburst events in recent years have highlighted the **urgent need to improve interior drainage** in Lower Manhattan



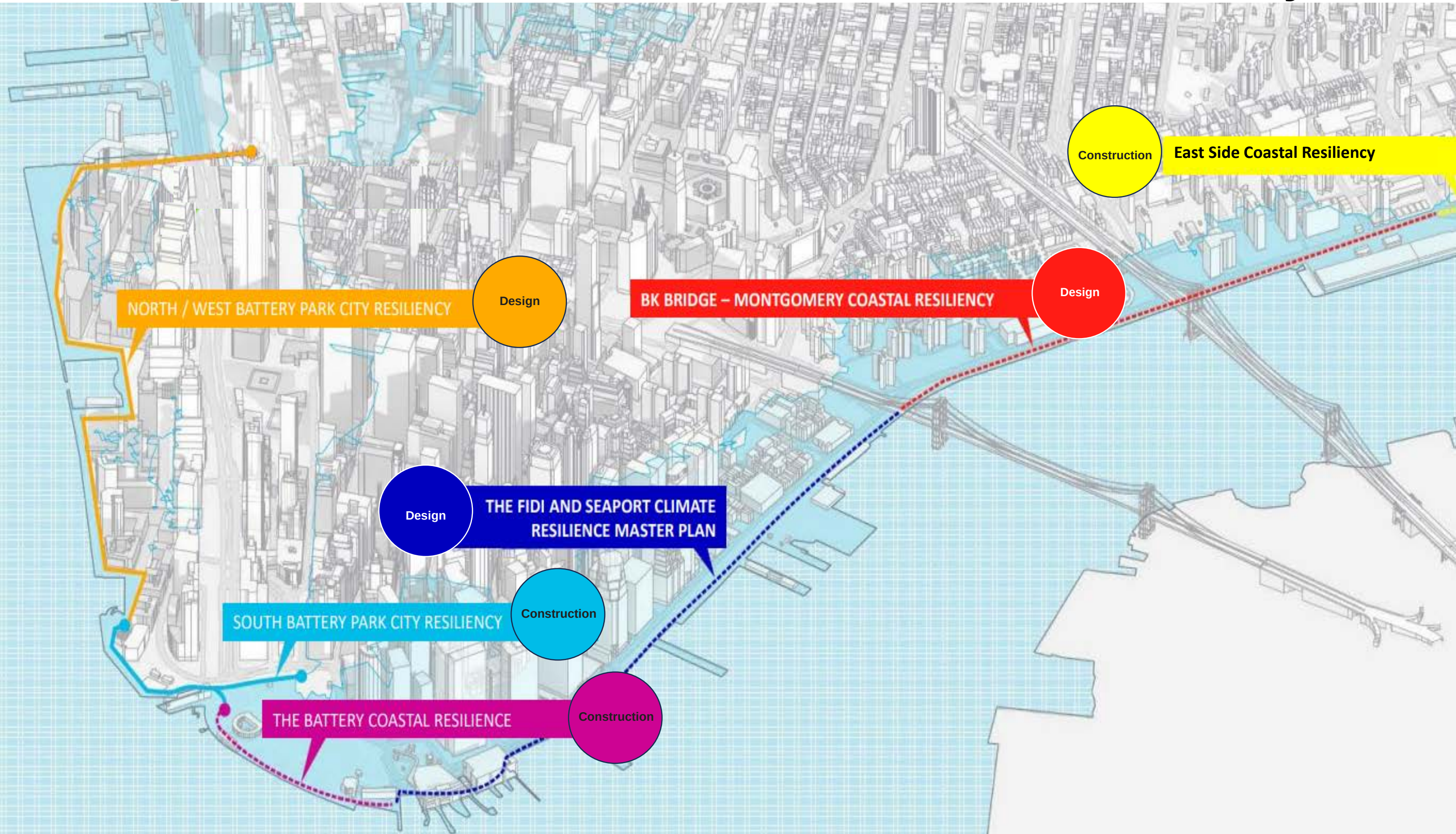
Data Source: Lower Manhattan Climate Resilience Study (2019)

Why We're Here

The floodplain protected by Battery Park City's resiliency work contains:

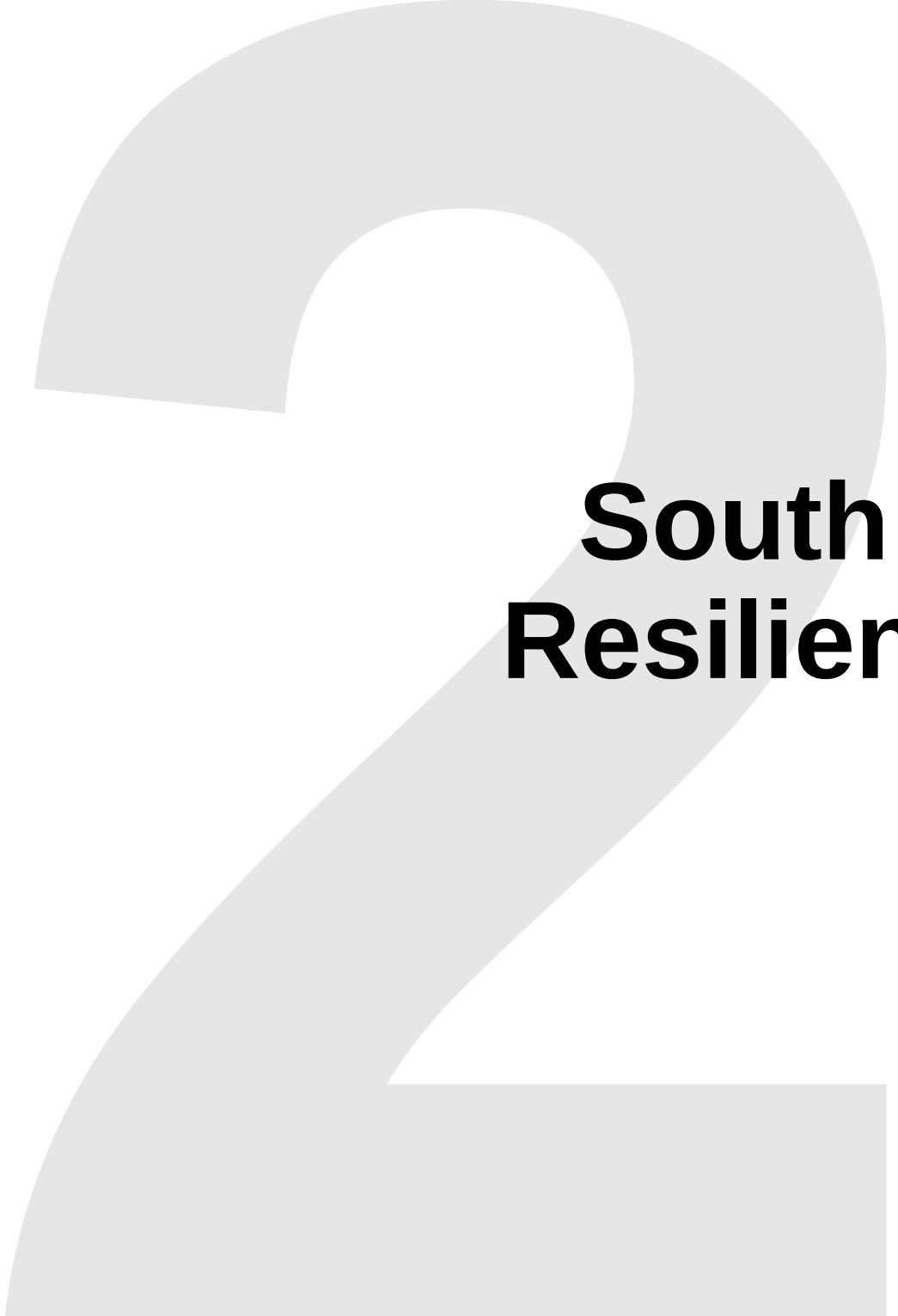
- 120 buildings
 - 74 Residential
 - 25 Commercial
 - 21 Public
- 25,000 Residents
- 61,000 Jobs
- \$13.8B in property value
- WTC transit hub and key regional infrastructure
- Borough of Manhattan Community College
- Museum of Jewish heritage, WTC Memorial and Museum, and other cultural institutions

Why We're Here: Lower Manhattan Coastal Resiliency



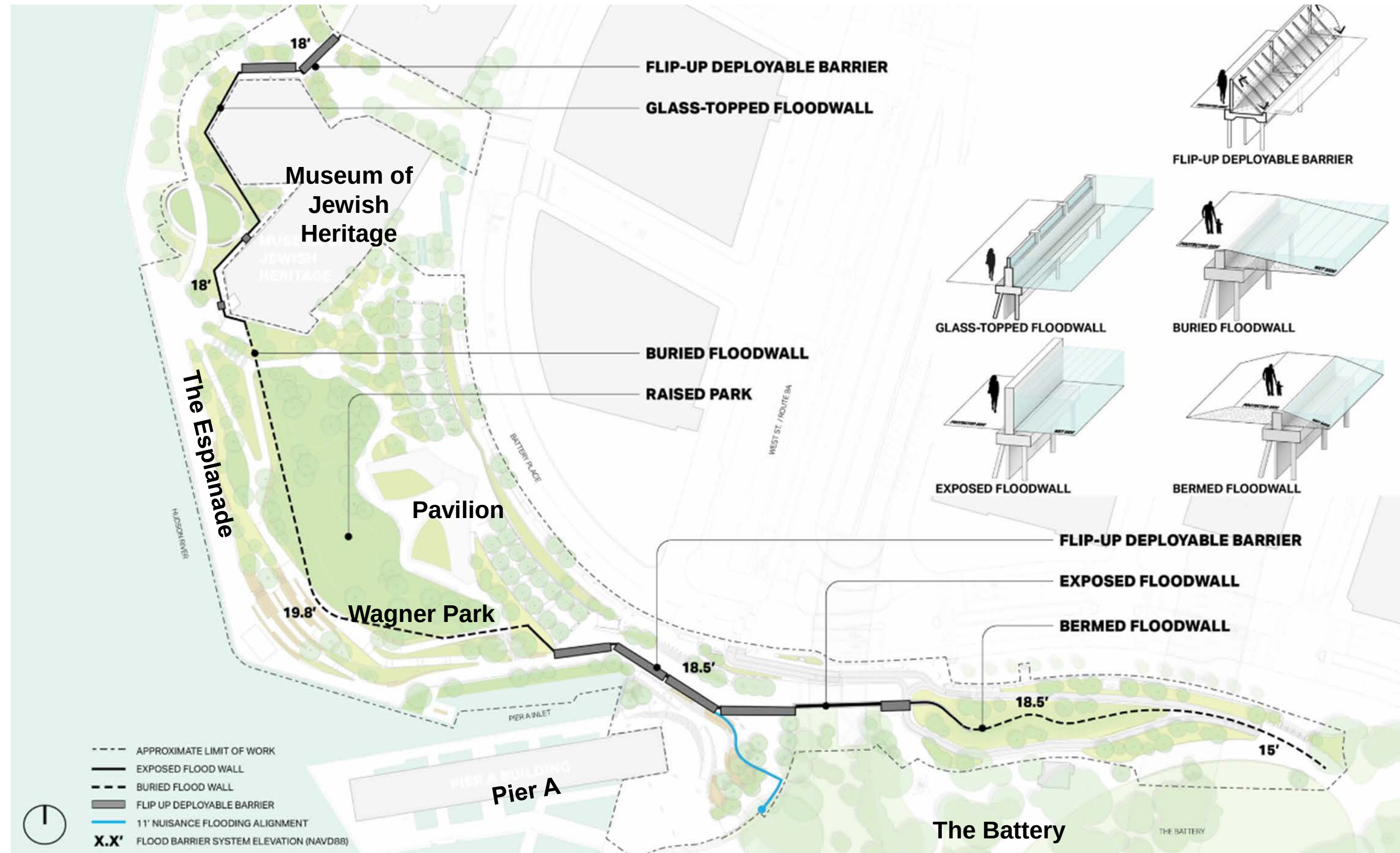
Why We're Here: Resiliency in Battery Park City

- o The **BPC Ball Fields & Community Center Project** – **COMPLETE**.
 - American Society of Civil Engineers Metropolitan Section's Sustainability Project of the Year (2023)
- o The **South Battery Park City Resiliency Project** – **UNDERWAY**; to be completed next year. Provides protection for southern Battery Park City and surrounding areas of Lower Manhattan.
 - SBPCR has earned the prestigious Waterfront Edge Design Guidelines (WEDG) Verification for its resilient, ecological, and accessible waterfront design
- o The **North/West Battery Park City Resiliency Project** – **IN DESIGN**; will provide flood protection for the balance of Battery Park City, and portions of Lower Manhattan and Tribeca – including WTC site, BMCC, thousands of residents and workers.
 - NWBPCR designs incorporate public feedback received over the course of dozens of public meetings, workshops, walking tours, and small group discussions



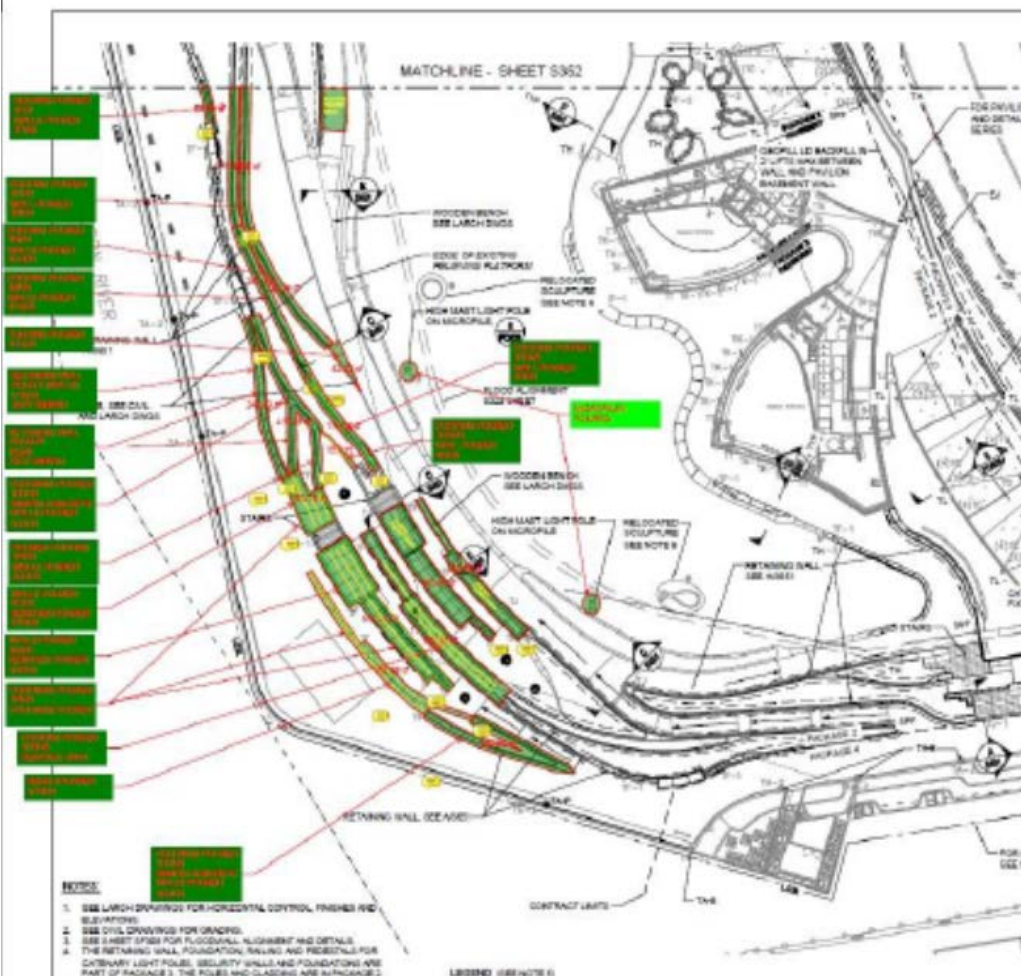
South Battery Park City Resiliency Project Update

South Battery Park City Resiliency: Alignment



South Battery Park City Resiliency: Timeline

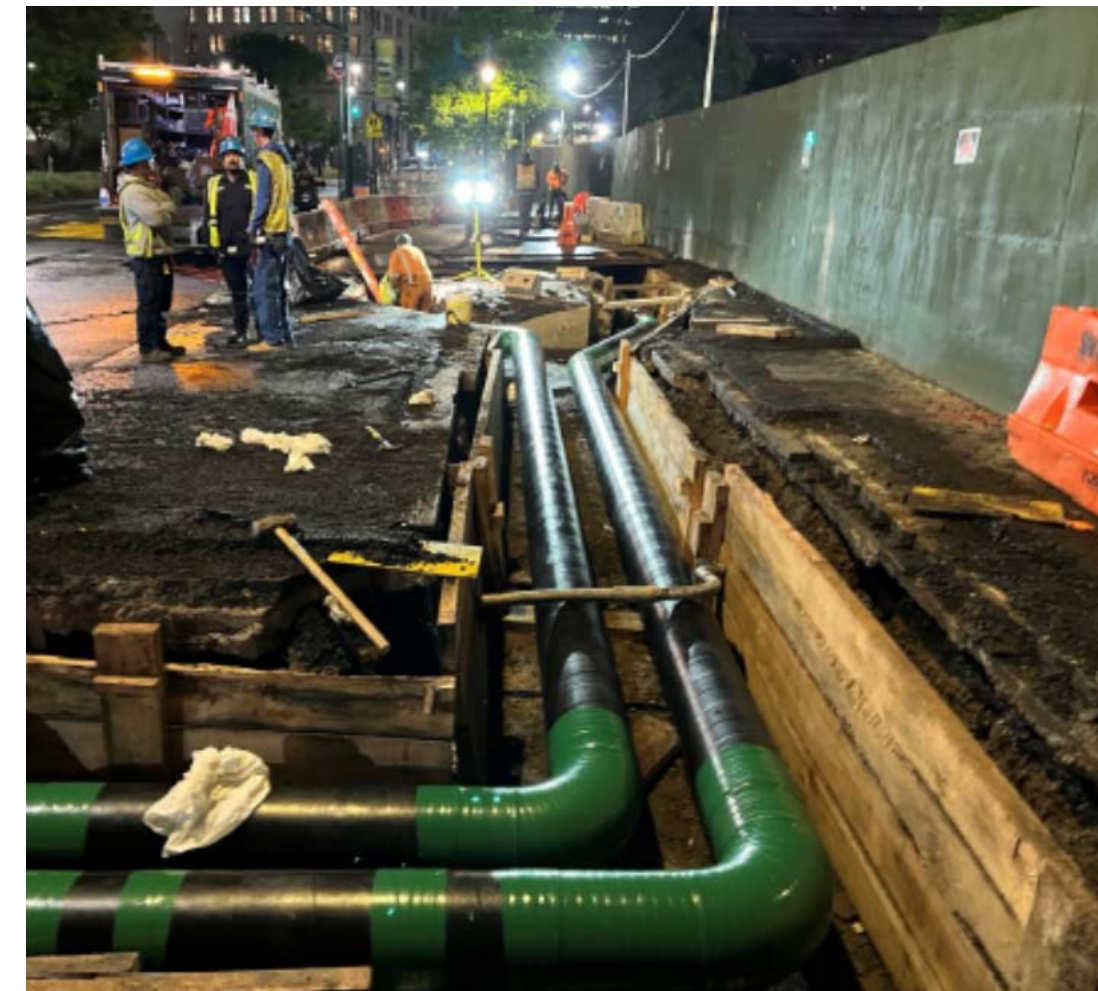
- Wagner Park / Park Pavilion Demolition, Site Salvage: 2023
- Wagner Park/ MJH Floodwall / Pavilion Construction: 2023/2024
- The Battery/Pier A Plaza: Demo, Site Salvage and Utility Work: 2023/2024
- The Battery/Pier A Plaza: Floodwall Construction/Site Work: 2024/2025
- Substantial Completion: Spring 2025



Wet side planters and backfilling



Pavilion concrete work



Battery Park utility work, demo and removals

South Battery Park City Resiliency: In Construction





North/West Battery Park City Resiliency Project Update

Key Community Engagement Milestones

- **Project Kickoff** – June 2021
- **Public Meeting #1** – August 4, 2021
- **Community "Walkshops"**
 - o October 28, 2021
 - o November 4, 2021
 - o November 13, 2021
- **Public Meeting #2** – December 16, 2021
- **Public Meeting #3** (Open House) – June 2022
- **Public Meeting #4** – September 2022
- **Presentation @ Manhattan CB1** – December 7, 2022
- **Reach-Specific Workshops**
 - o Rockefeller Park & Belvedere Plaza: February 8, 2023
 - o Tribeca & North Esplanade: February 16, 2023
 - o South Esplanade & South Cove: March 6, 2023
 - o North Cove: March 15, 2023
- **Public Meeting #5** (30% Design) – June 26, 2023
- **NWBPCR Project "SiteWalks"**
 - o Sitewalk 1: Reaches 1-4, October 19, 2023
 - o Sitewalk 2: Reaches 1-4, October 21, 2023 (AM)
 - o Sitewalk 3: Reaches 5-7, October 21, 2023 (PM)
 - o Sitewalk 4: Reaches 5-7, October 26, 2023
- **Interior Drainage Update @ Manhattan CB1** – October 16, 2023
- **Public Meeting #6** (Post-30% Design Progress Update) – November 30, 2023
- **Presentation @ Manhattan CB1 (Reaches 6 & 7)** – January 4, 2024
- **Presentation @ Manhattan CB1 (Reaches 2, 3, 4)** – March 18, 2024
- **Presentation @ Manhattan CB1 (Reaches 1 & 5)** – April 16, 2024
- **Presentation @ Manhattan CB1** – June 6, 2024
- **Public Meeting #7** (60% Design Progress Update) – June 20, 2024
- Smaller meetings with stakeholders throughout

The Benefits

- **Protection** from 2.5 feet of projected sea level rise, help **cool neighborhood** during heat events, and **prevent ponding** of more than 1' depth during rain events in Battery Park City
- **Reduce Homeownership Costs** FEMA's removal of BPC from the current flood zone will eliminate homeowners' need to purchase flood insurance for federally-backed mortgagees.
- **Enhance Public Space** with universal accessibility, remediated circulation pinch points, and increased and improved seating
- **More Landscape** over 30% increase in total planting coverage within the project area, including 2x along BPC's South Esplanade
- **Increase Native Plantings** 85% native species coverage, better supporting birds and pollinators with new planted areas that shorten existing gaps in habitat corridors
- **Improve In-Water Habitats** Approximately 1,200 linear feet of reconstructed bulkhead designed to provide environments that support marine life

Flood Barrier System Alignment



Progress Updates from 30% to 60% Sets

- **Greater level of detail and specificity** in alignment and constructability
- **Materials and plantings** selection progress
- **Design development**, with particular focus on:
 - o North Esplanade
 - o Brookfield Place and Pumphouse Park
 - o Street Ends of South Esplanade
 - o South Cove

Post 60%- Ongoing Design Work

- **Awaiting Agency comments on 60% set (NYC DOT, NYS DOT, NYC DEP, NYS DEC, NYC SBS, NYS OGS, HRPT, PANYNJ, FDNY, NYPD, NYC DCP, USACE, NYC DPR, CUNY)**
- **Incorporating suggestions from OMB Value Engineering effort**
- **Developing/refining construction phasing plan**
- **Route 9A Crossing – NYC & NYS DOT feedback needed to finalize**

June 20 Public Meeting Agenda

1. Design Update Presentation

2. Breakout Tables

1. Open Space Improvements

- Pumphouse Park
- Brookfield Place
- New Street End Seating

2. Tree Impacts

3. Biodiversity/Landscape Palette

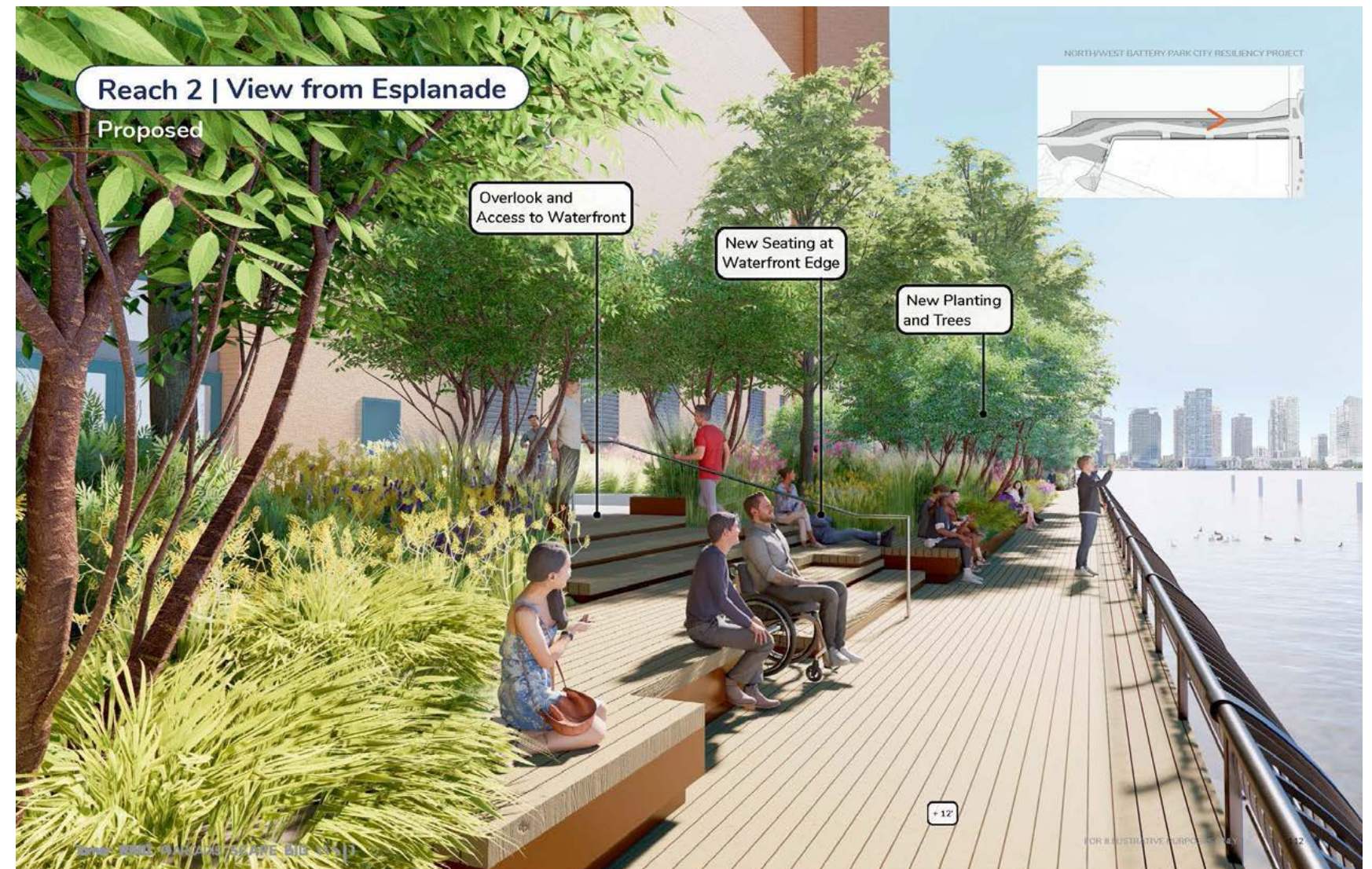
- Green Infrastructure

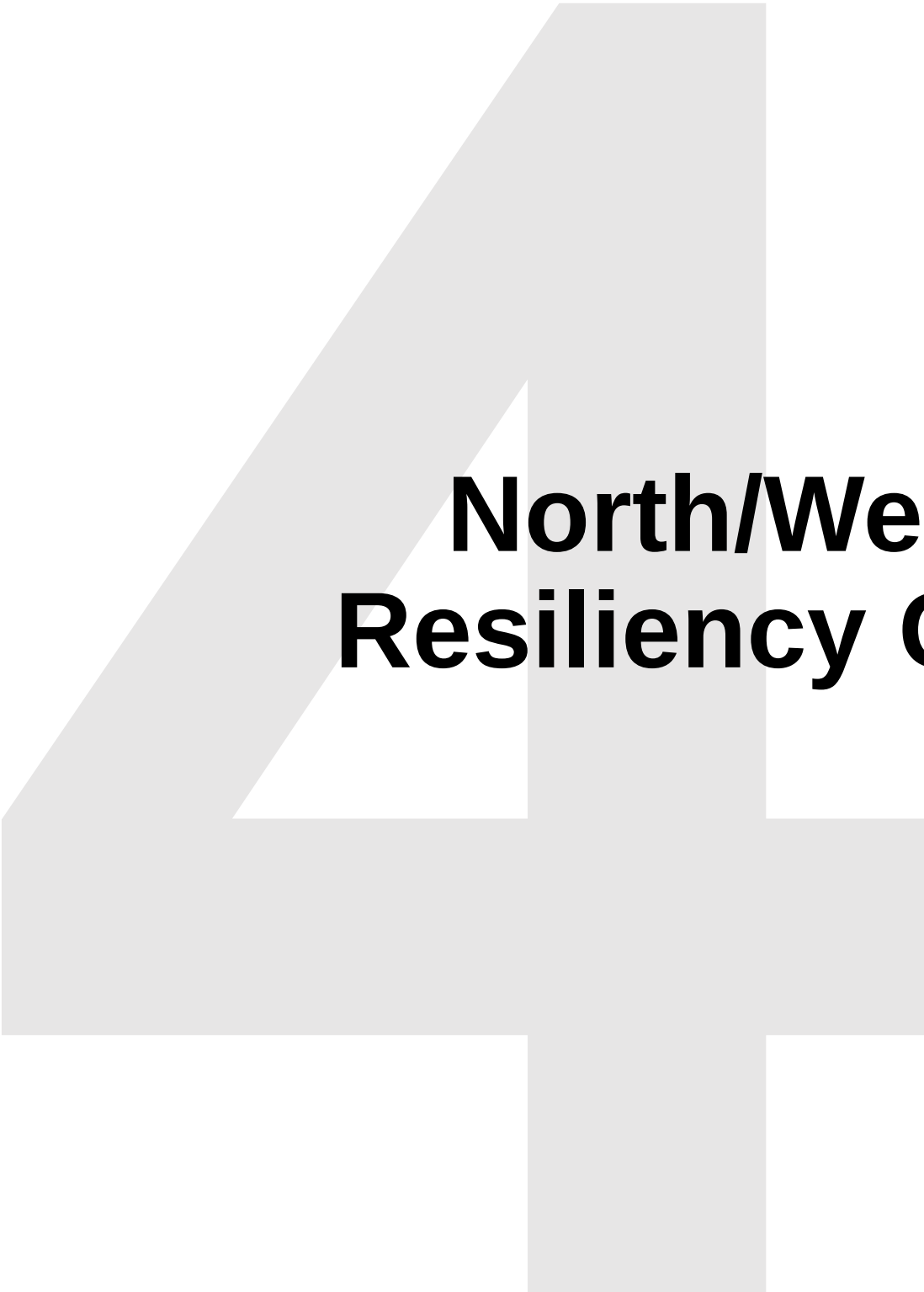
4. Furniture/materials

- Material palette
- Wall color/ texture
- Furniture

5. Interim Open Space Improvements

- Street closures?
- Open Streets?
- West Street improvements?





North/West Battery Park City Resiliency Construction Strategy

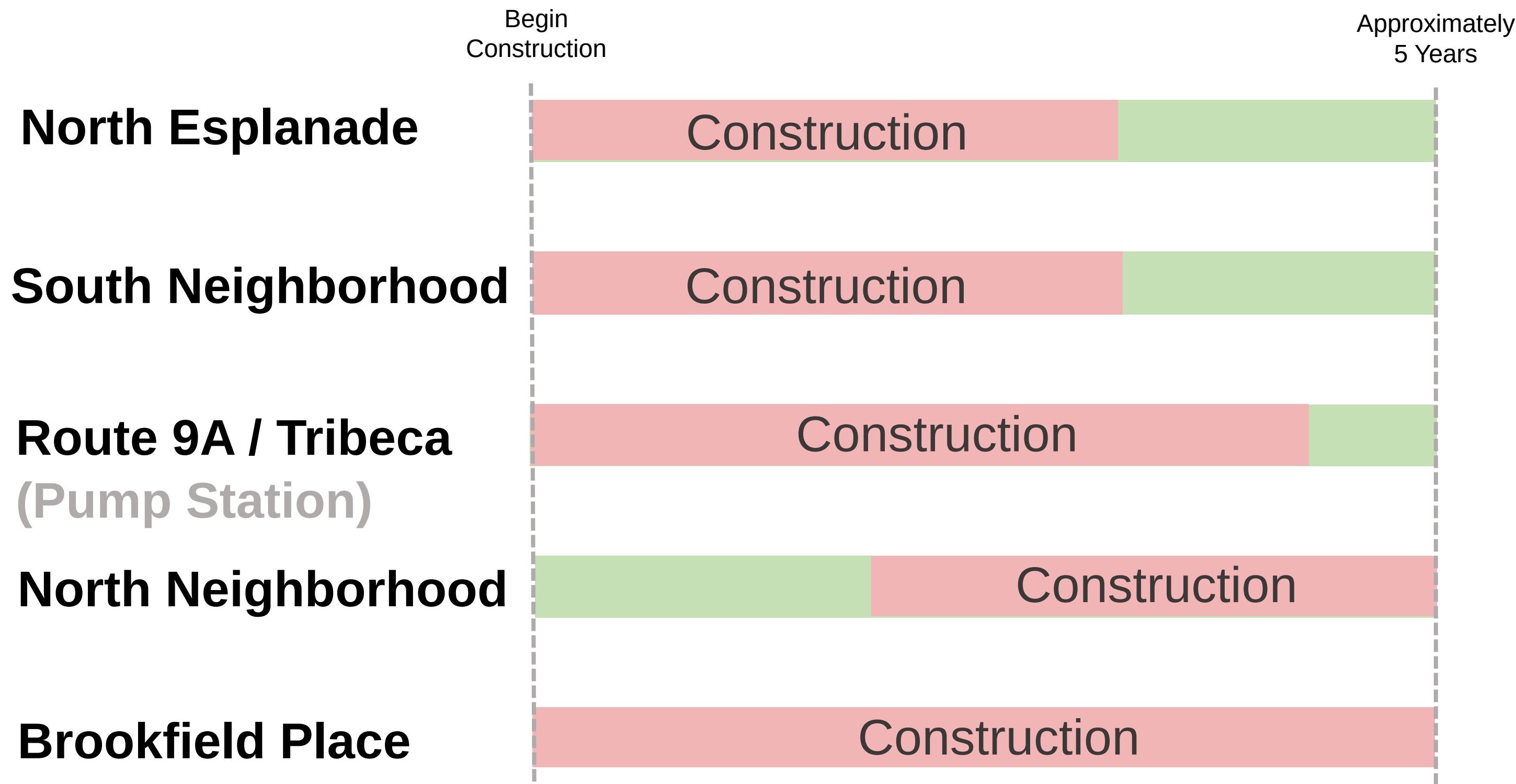
Construction Objectives

- **Complete the project as quickly as possible with as limited disruption as possible**
 - Avoid delay in achieving flood protection
 - Shorten the overall duration of construction impacts to the community
 - Contain project costs by avoiding escalation costs
- **Begin construction of N/W after Wagner Park has reopened**
- **Provide meaningful open spaces** throughout construction.
- **Sequence construction** to accelerate protection of highest risk areas and continuous stretches of space that can be reopened soonest.
- **Communicate** consistently with the community throughout construction.

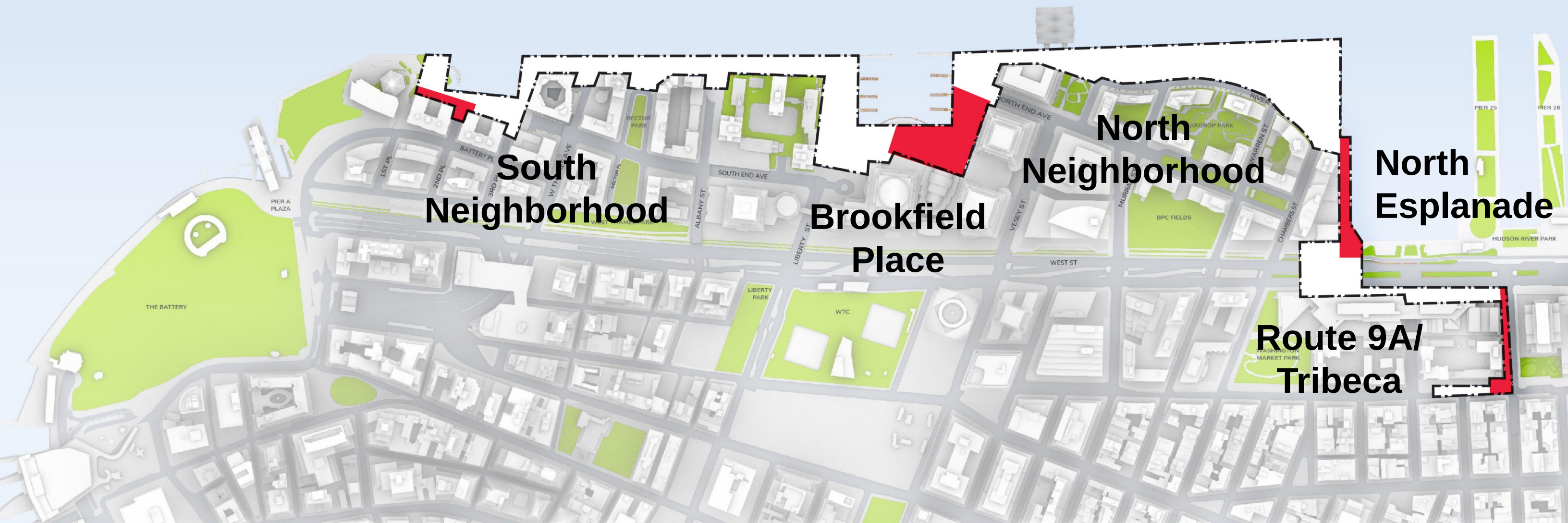
Major Challenges and Constraints

- 1. Bridging Structures:** Time-intensive construction over PANYNJ tunnels, minimize impact to Brookfield Place
- 2. Route 9A:** Vulnerable area, heavily trafficked, with safety and urban design considerations
- 3. Gateway Plaza:** Cantilever over existing platform, constructability issues and accommodating retail use
- 4. Limited Space to Stage and Work:** Accommodate pedestrian access and minimize impact to public realm
- 5. Pump Station Construction:** Minimize above-ground expression and impacts to pedestrians, bicyclists, and Stuyvesant High School

Construction Durations



Progress of Completion: Start of Year 1



Progress of Completion: Start of Year 2



Progress of Completion: Middle of Year 2

o South Cove – **MOSTLY RE-OPENED**



Progress of Completion: Beginning of Year 4

- o **South Neighborhood** – South Cove and all of the South Esplanade – **RE-OPENED**
- o **Route 9A / Tribeca** – subareas of North Moore Street and east side of Route 9A - **RE-OPENED**
- o **North Esplanade** – **RE-OPENED**



0' 175' 350' 700' 1,050' N

Progress of Completion: Beginning of Year 5

- o **South Neighborhood** – South Cove and all of the South Esplanade – **RE-OPENED**
- o **Route 9A / Tribeca** – subareas of North Moore Street and east side of Route 9A plus North Esplanade extension.– **RE-OPENED**
- o **Brookfield Place** – east and north sides of Brookfield Place – **RE-OPENED**



Progress of Completion: End of Year 5

- o **South Neighborhood** – South Cove and all of the South Esplanade – **RE-OPENED**
- o **Route 9A / Tribeca** – subareas of North Moore Street and east side of Route 9A plus North Esplanade extension.– **RE-OPENED**
- o **Brookfield Place** – all of Brookfield Place – **RE-OPENED**
- o **North Neighborhood** – all of the North Neighborhood – **RE-OPENED**
- o **Pump Station** – Pump Station at West Street and Chambers – **RE-OPENED**

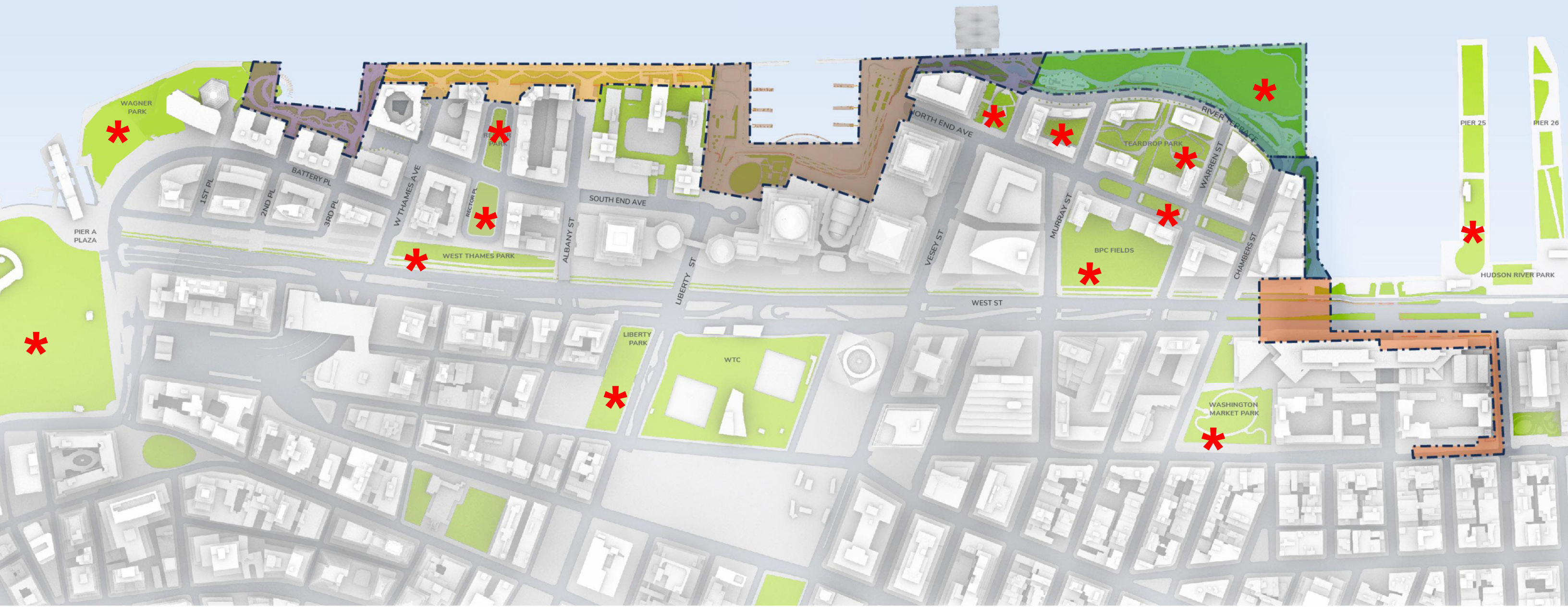


Open Spaces During Construction

- Wagner Park – OPEN
- BPC Ball Fields – OPEN
- Rector Park – OPEN
- Teardrop Park – OPEN
- West Thames Park – OPEN
- Rockefeller Park North Lawn – OPEN

ALSO:

- The Battery – OPEN
- Hudson River Park – OPEN
- Washington Market Park – OPEN
- Liberty Park – OPEN



Ongoing Construction Coordination & Communication

- Prior to the start of construction BPCA will **set up a process for more detailed on-going communication** on construction activity
- **Construction briefings** will include:
 - Representatives for the elected officials offices
 - Any key agency partners (eg NYS DOT when relevant for instance on Route 9A
 - Representatives from any adjacent residential/commercial/educational buildings and relevant members from the CB1
- The goal is to **inform the community about on-going plans** and troubleshoot any items of concerns

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Next Steps

Buildings Adjacent to Flood Barrier System



Upcoming Public Engagement Opportunities

- June 20th 60% Design Public Meeting
- Meetings with Individual Buildings - Ongoing
- Solicit Community Input / Develop Temporary Open Space Use Concepts – Summer/Fall 2024
- Advance Design of Pump Station (Separate Community Engagement Schedule) -- 2024/2025
- LMCR Quarterly Updates - Ongoing
- Agency Permitting – 2024/2025
- Public Design Commission Review – Summer/Fall 2024
- DEIS Hearing September 2024
- Pre-Construction Public Meeting Early 2025

