

# Lower Manhattan Coastal Resiliency

March 18<sup>th</sup>, 2024

**NYC** Mayor's Office of Climate &  
Environmental Justice

Battery  
Park City  
Authority



NYC Parks

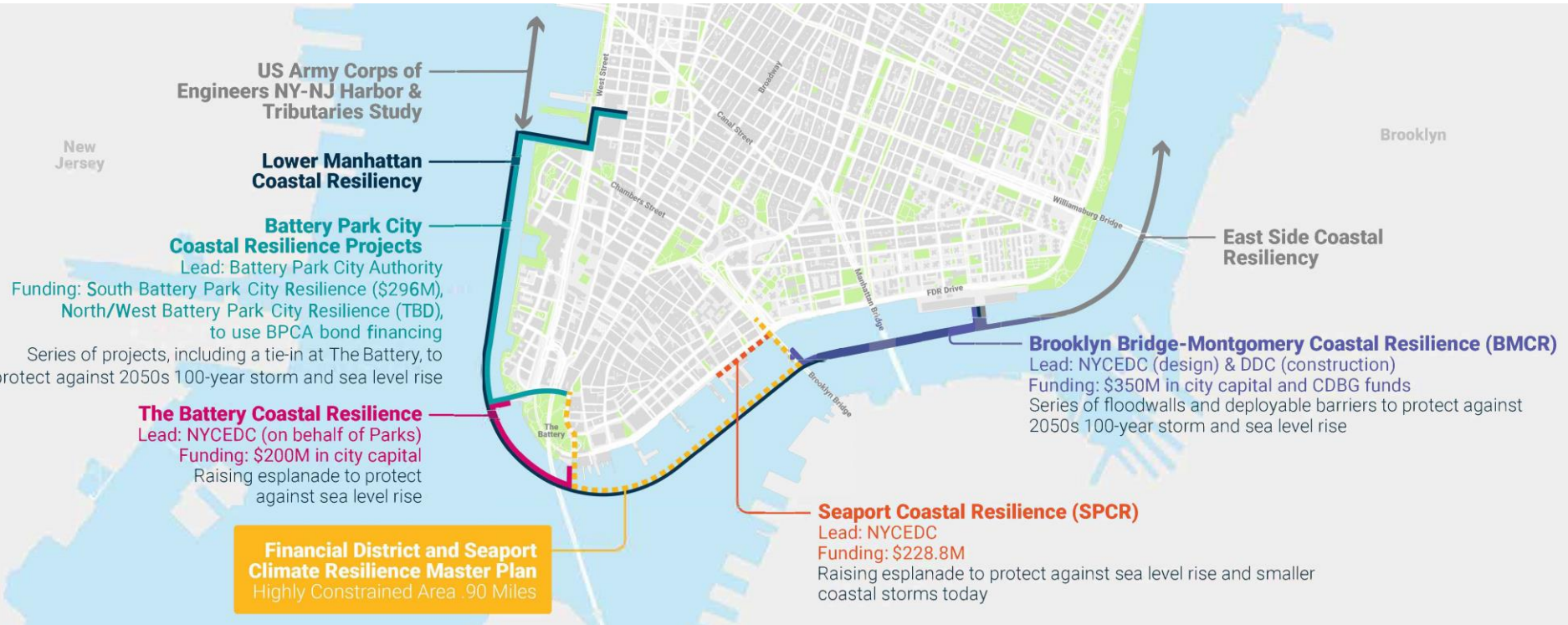
**NYC** / **EDC**

**NYC** Department of  
**DDC** Design and  
Construction

# Agenda

- Overall LMCR Update
- Project Updates
  - BPCA Projects
  - Battery Coastal Resilience
  - Fidi/Seaport Master Plan
  - Seaport Coastal Resilience
  - BMCR

**In Lower Manhattan, the City, State, and Federal governments have committed over \$1.7B in capital investments for climate adaptation projects. **The Financial District and Seaport Climate Resilience Master Plan** will fill a missing link in Lower Manhattan's comprehensive flood defense infrastructure.**



**Battery Park City Coastal Resilience Projects**  
 Lead: Battery Park City Authority  
 Funding: South Battery Park City Resilience (\$296M), North/West Battery Park City Resilience (TBD), to use BPCA bond financing  
 Series of projects, including a tie-in at The Battery, to protect against 2050s 100-year storm and sea level rise

**The Battery Coastal Resilience**  
 Lead: NYCEDC (on behalf of Parks)  
 Funding: \$200M in city capital  
 Raising esplanade to protect against sea level rise

**Financial District and Seaport Climate Resilience Master Plan**  
 Highly Constrained Area .90 Miles

**Brooklyn Bridge-Montgomery Coastal Resilience (BMCR)**  
 Lead: NYCEDC (design) & DDC (construction)  
 Funding: \$350M in city capital and CDBG funds  
 Series of floodwalls and deployable barriers to protect against 2050s 100-year storm and sea level rise

**Seaport Coastal Resilience (SPCR)**  
 Lead: NYCEDC  
 Funding: \$228.8M  
 Raising esplanade to protect against sea level rise and smaller coastal storms today

# Project Timelines

(Est. Dates as of March 2024)

Project	100% Design	Procurement	Construction Start	Construction Complete						
					'23	'24	'25	'26	'27	'28
Brooklyn Bridge–Montgomery Coastal Resilience	Complete	Complete	Underway	Fall 2026						
South Battery Park City Resiliency	Complete	Complete	Underway	Early/Mid 2025						
The Battery Coastal Resilience	Complete	Underway	Underway	Summer 2026						
North/West Battery Park City Resiliency	April 2024	Complete	Early 2025	Early/Mid 2028						
Seaport Coastal Resilience	Early 2026	Late 2025	Early 2026	Early 2028						
FiDi-Seaport Master Plan	Underway	TBD	TBD	TBD						



Turner + CRUZ  
a joint venture



North/West Battery  
Park City Resiliency  
Project

**CB1**  
**Reaches 2, 3 & 4**

March 18, 2024



1. Reach 2 Updates
2. Reach 3 Updates
3. Reach 4 Updates

# Reach 2 Updates

REACH 2  
a joint venture

1

## Reach 2 | Design Goals

### URBAN DESIGN / ENVIRONMENTAL CONTEXT

#### GOALS:

MAINTAIN UNIVERSAL ACCESSIBILITY

MAXIMIZE NUMBER OF TREES

PROTECT AS MANY TREES AS POSSIBLE AT TRIBECA POINT PLANTER

MAINTAIN ADEQUATE SOIL DEPTHS

MAINTAIN 20' FREE AND CLEAR PATHWAY

ESTABLISH MATERIAL DIFFERENCE FOR SECONDARY PATHWAY AND OCCUPABLE AREAS

SUMMER SEASON -- PROVIDE SHADE COOL SPACES FOR OCCUPATION AND CIRCULATION

WINTER SEASON -- EXPAND WIND BREAKS AND

### CITY POINT / STUYVESANT HIGH SCHOOL

#### CONSIDERATIONS:

LIMIT THE NUMBER OF SEATING OPPORTUNITIES IMMEDIATELY ADJACENT TO BUILDING



# Reach 2 | 40% Plan



## Reach 2 | 40% Plan











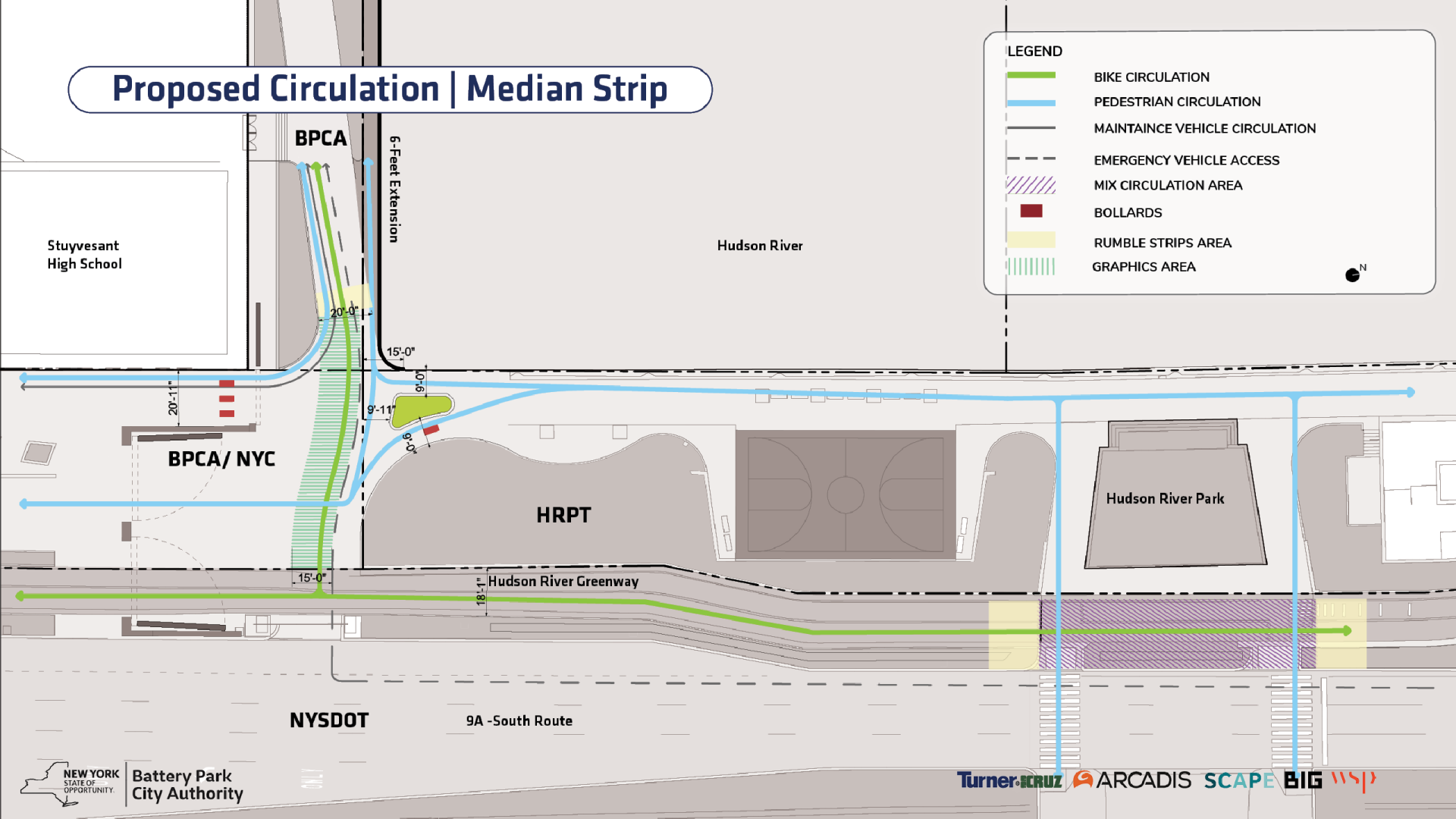
# Reach 2 | Updated Plan



# Proposed Circulation | Median Strip

## LEGEND

-  BIKE CIRCULATION
-  PEDESTRIAN CIRCULATION
-  MAINTAINCE VEHICLE CIRCULATION
-  EMERGENCY VEHICLE ACCESS
-  MIX CIRCULATION AREA
-  BOLLARDS
-  RUMBLE STRIPS AREA
-  GRAPHICS AREA



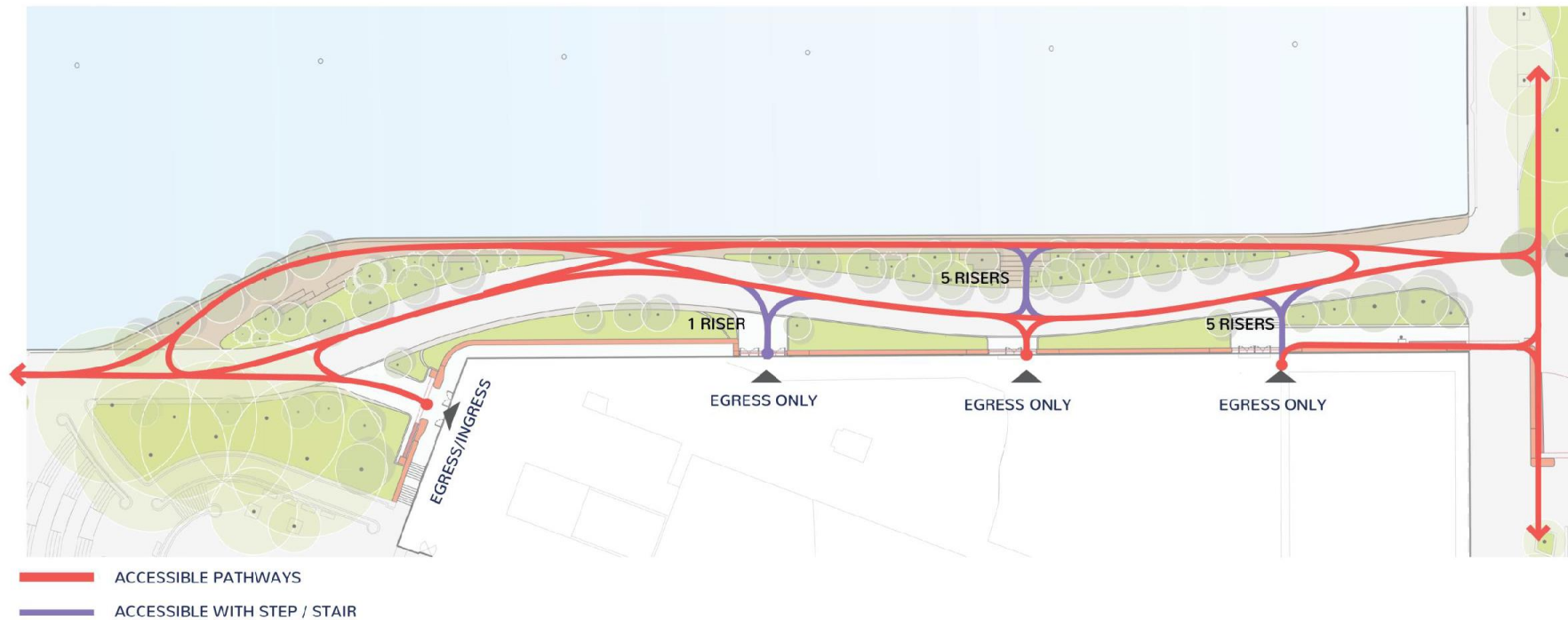
NYS DOT

9A - South Route



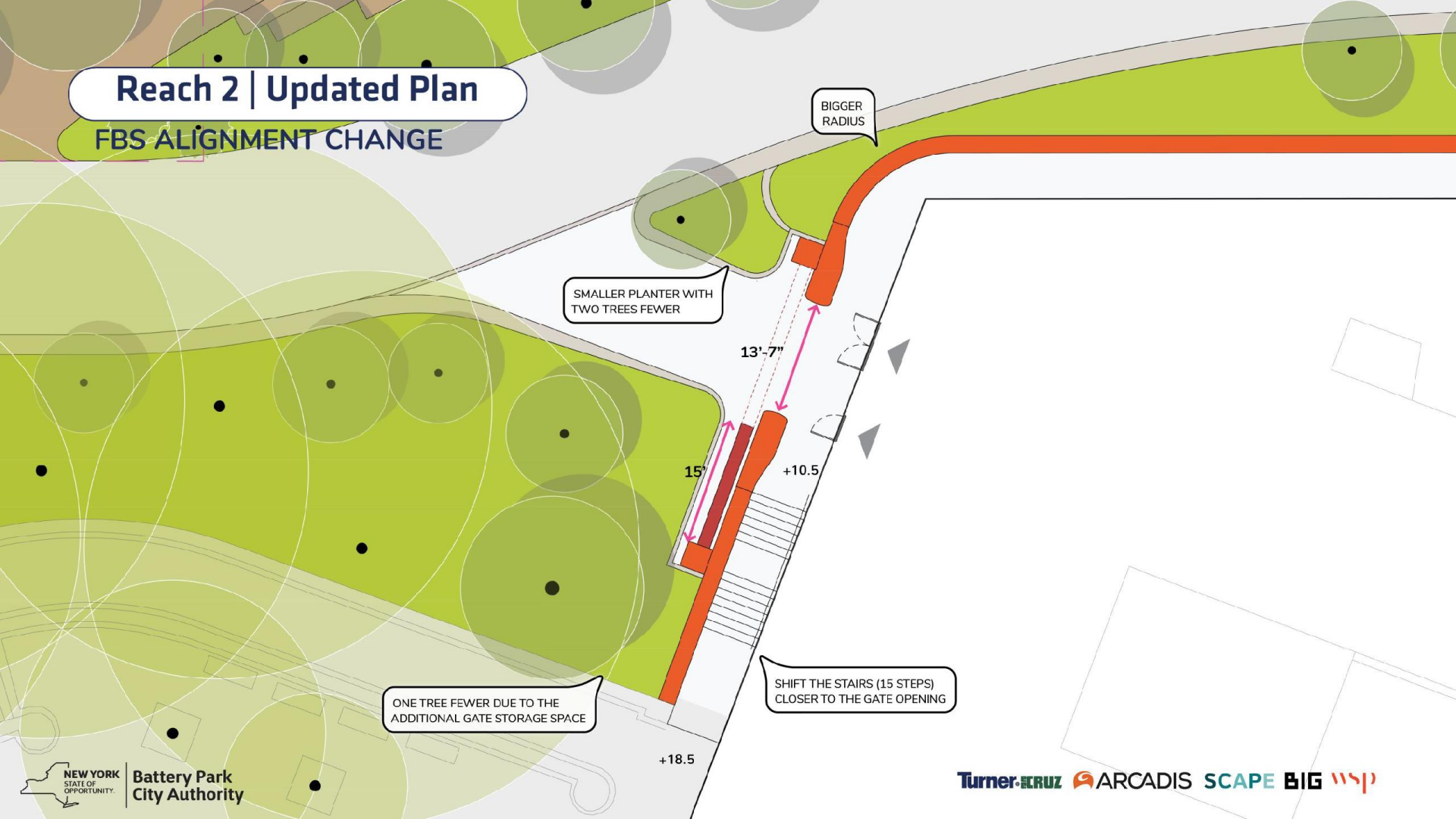
Battery Park City Authority

## Reach 2 | CIRCULATION



# Reach 2 | Updated Plan

## FBS ALIGNMENT CHANGE

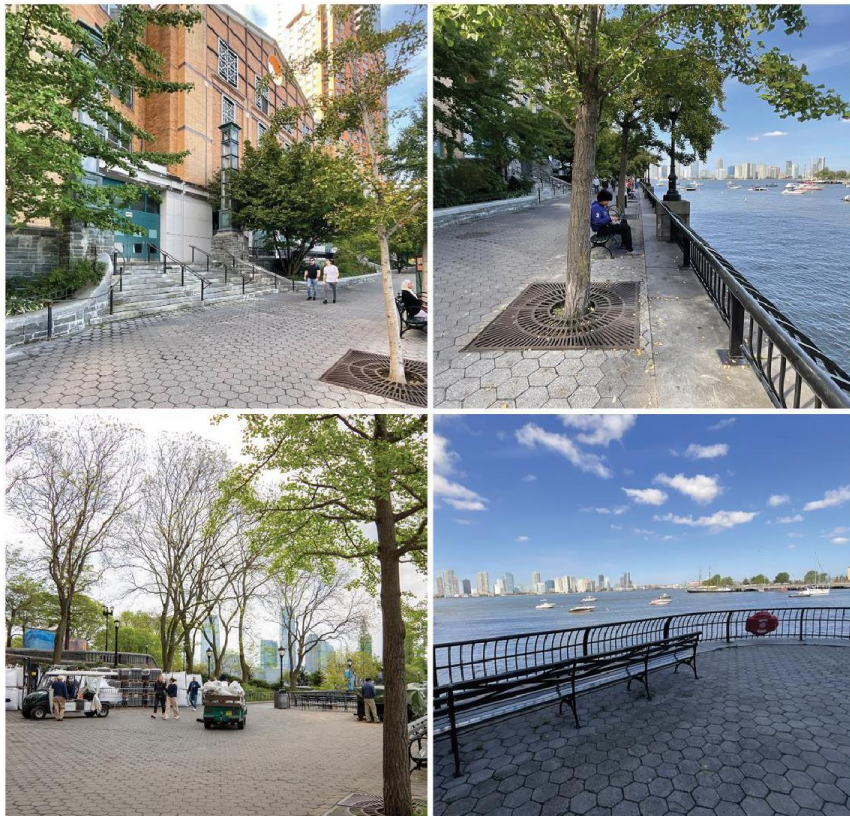


ONE TREE FEWER DUE TO THE ADDITIONAL GATE STORAGE SPACE



Battery Park City Authority

## Existing Palette - North Esplanade



Hex Paver



Brick Facade



BPC Railing



Type B Light Pole



Granite Bollards



Planting Concrete  
Bollards

# New Palette - North Esplanade



 Proposed New Material



Hex Paver



Brick Facade



BPC Railing



Type B Light Pole



Granite Bollards



Planting Concrete Bollards



Precast Concrete Seating



Pink Granite



Lumber with Routed Face



Metal Edge



Precast Concrete Steps



# Reach 2 - Hardscape Layout

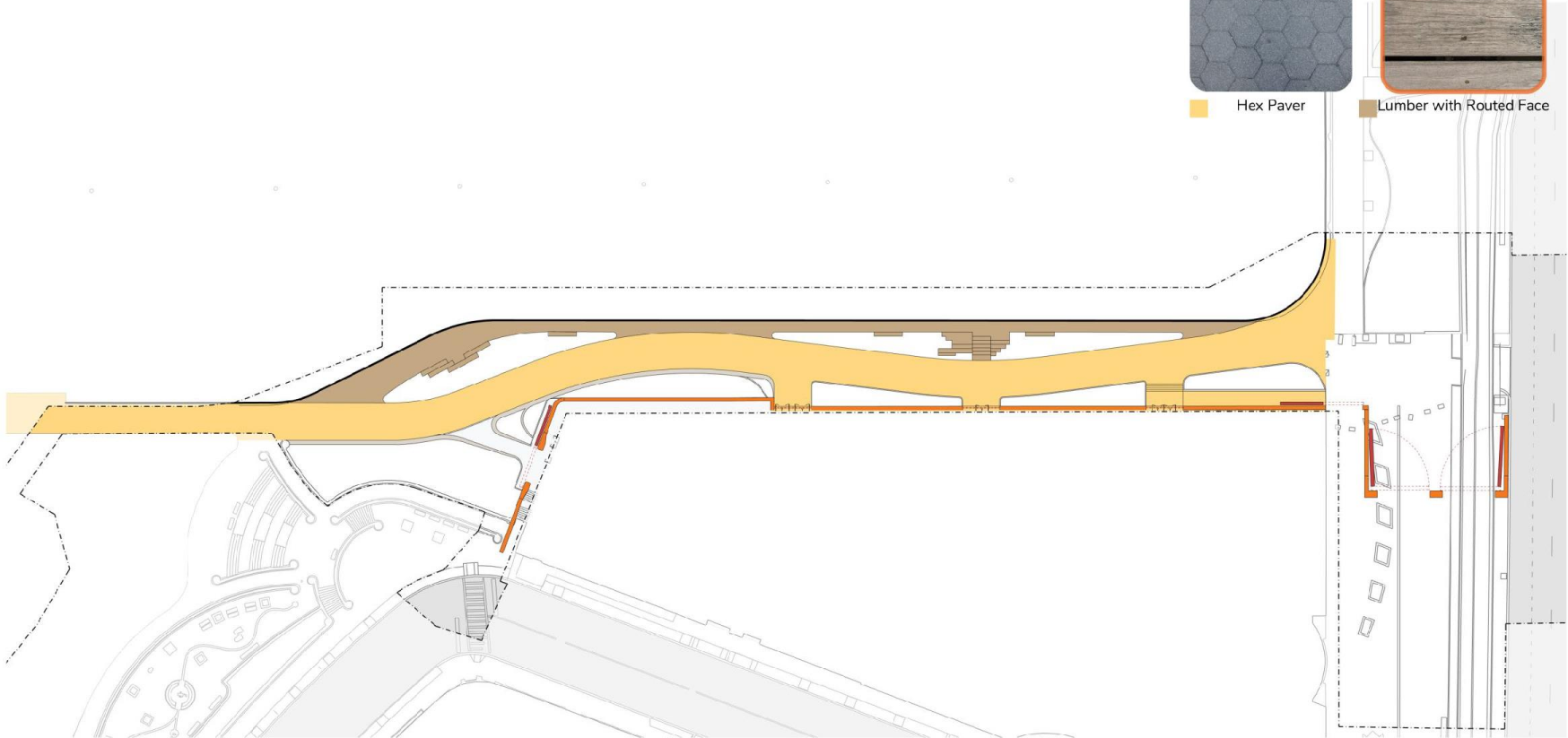
Proposed New Material



Hex Paver



Lumber with Routed Face



# Furniture - Precast



Proposed New Material



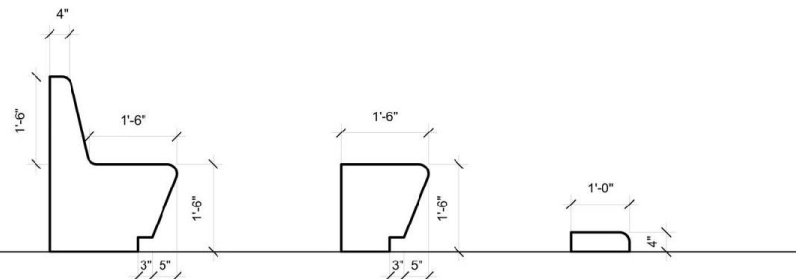
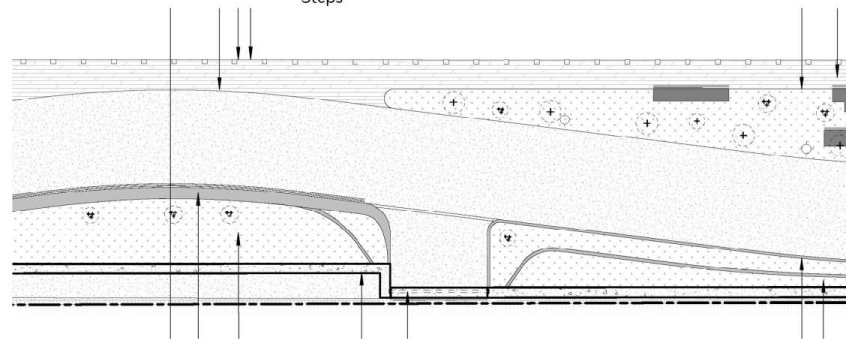
Precast Concrete



Precast Concrete Steps



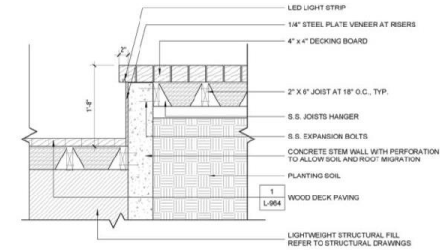
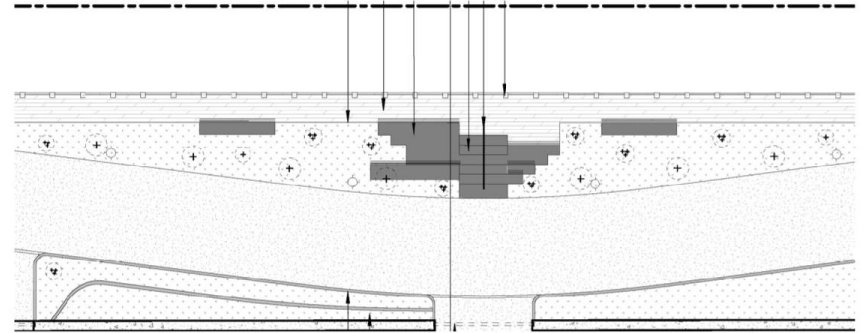
Lumber with Routed Face



## Furniture - Wood Elements



Lumber with Routed Face



## Reach 2 | Perspective



## Reach 2 | Perspective



## Reach 2 | Perspective



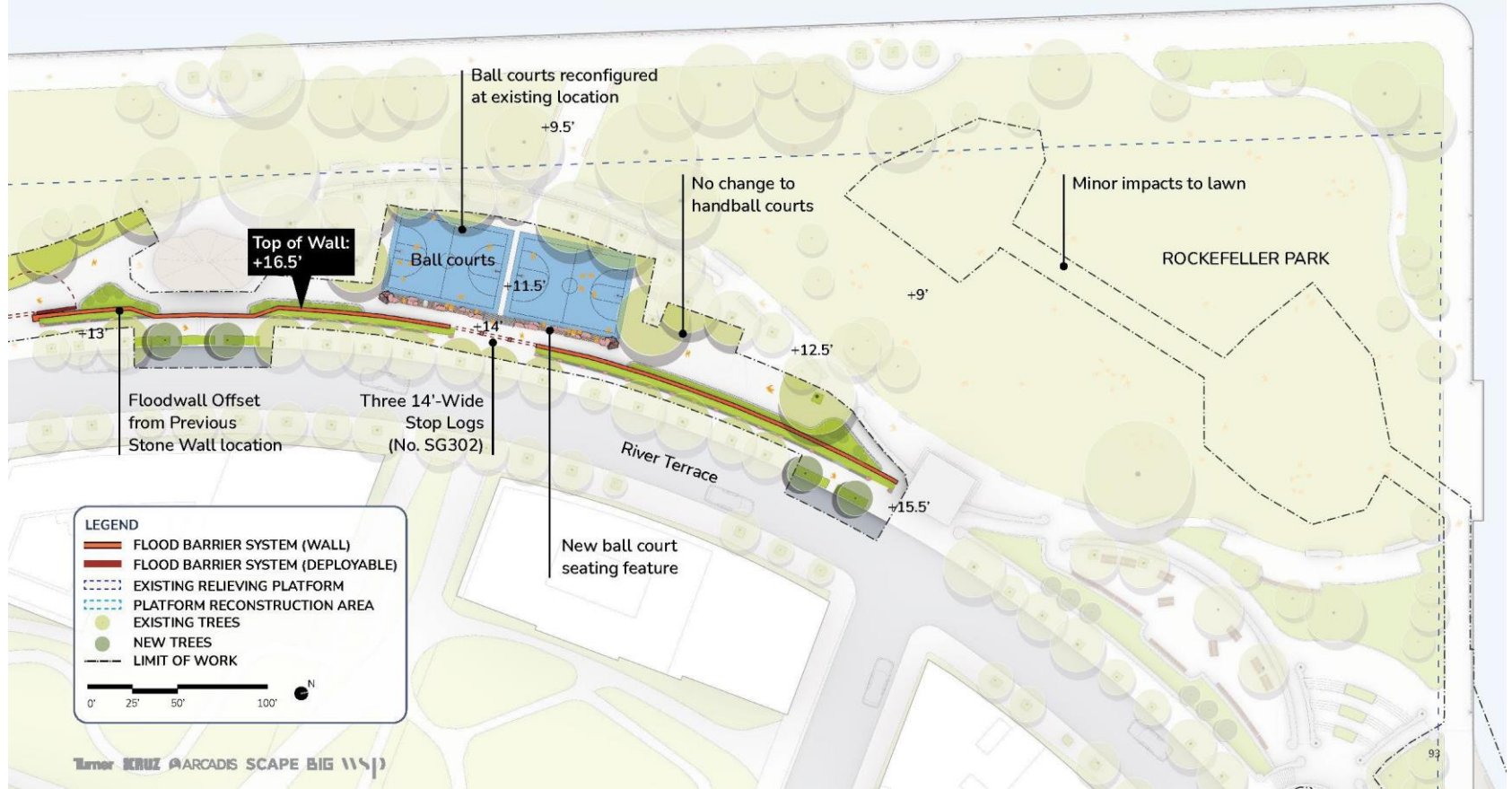
Reach 3 Updates

2





# Rockefeller Park | Plan

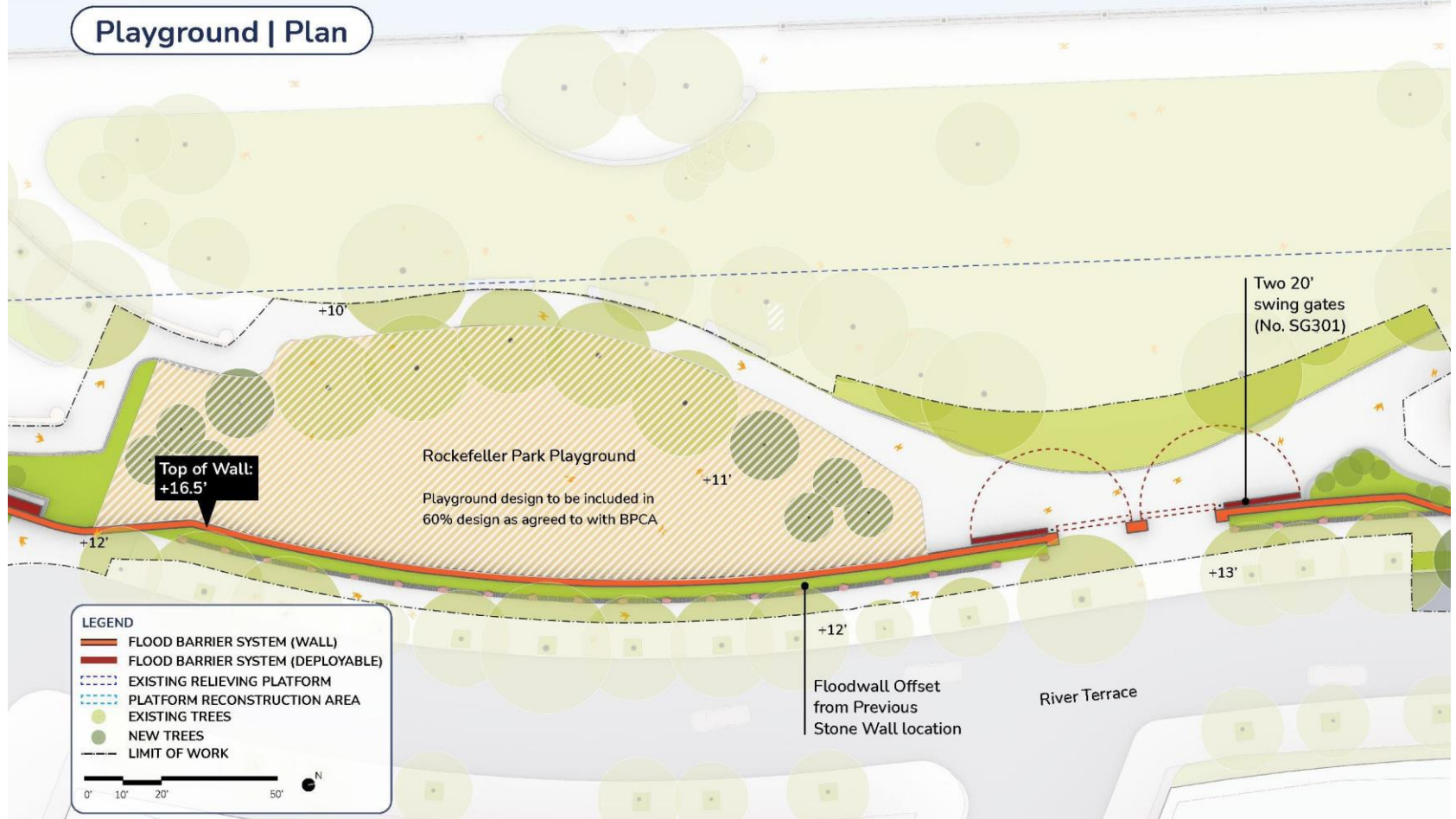


**LEGEND**

- FLOOD BARRIER SYSTEM (WALL)
- - - FLOOD BARRIER SYSTEM (DEPLOYABLE)
- - - EXISTING RELIEVING PLATFORM
- - - PLATFORM RECONSTRUCTION AREA
- EXISTING TREES
- NEW TREES
- - - LIMIT OF WORK

0' 25' 50' 100' N

# Playground | Plan



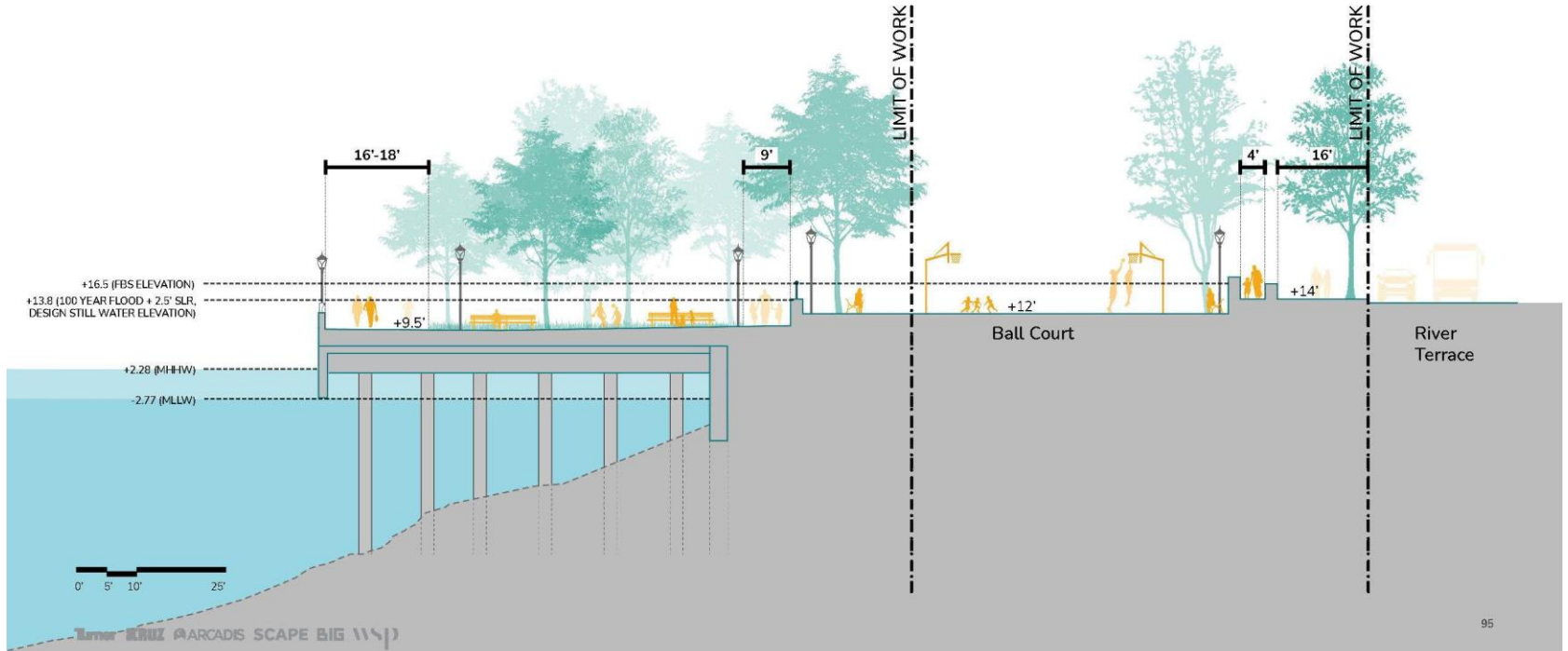
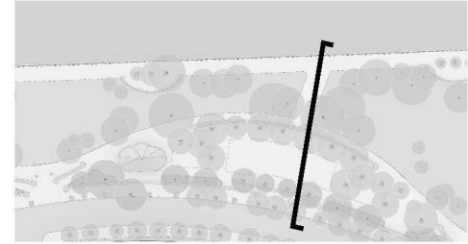
**LEGEND**

- FLOOD BARRIER SYSTEM (WALL)
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0' 10' 20' 50' N

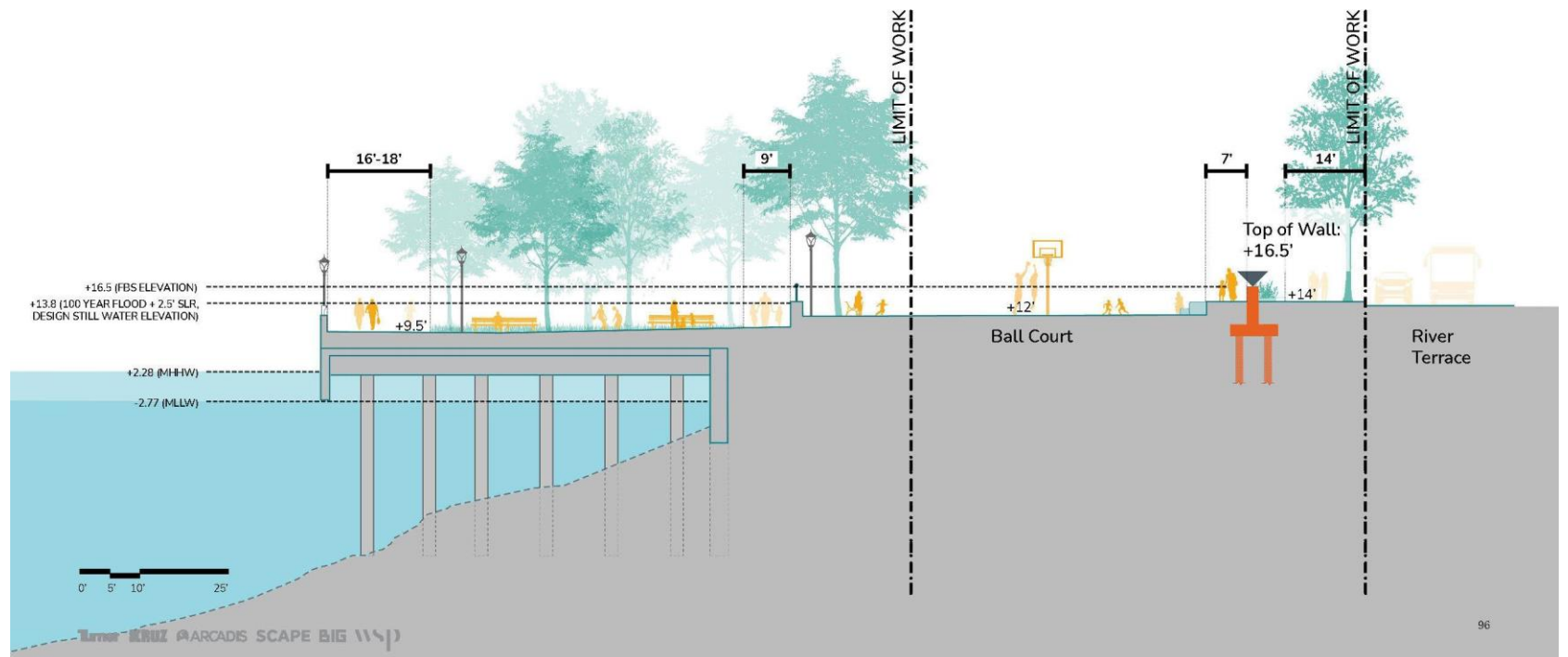
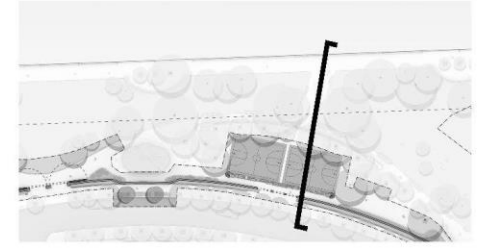
# Ball Court | Section

Existing

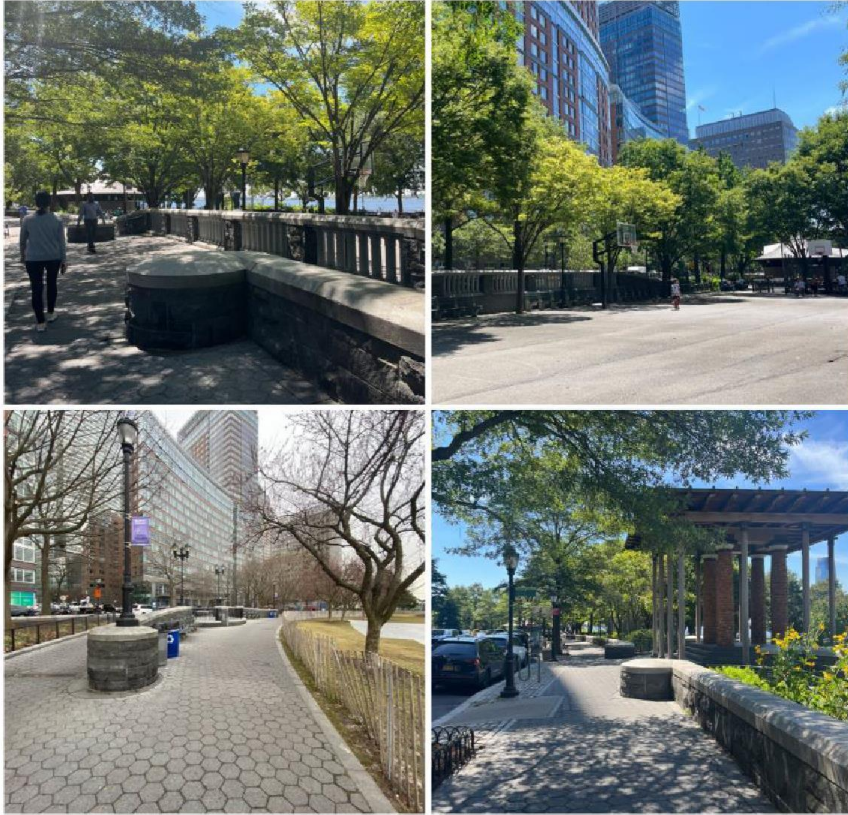


# Ball Court | Section

Proposed



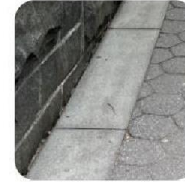
# Existing Palette - Rockefeller Park



Hex Paver



Cobblestone



Stone Band



Demetri Pavilion Paver



Pink Granite



Railing



Typical Light Pole



Plant Rail



Stone Wall



Concrete Benches



1939 World's Fair Bench



Plant Rail




Stone Curbs



Metal Fence



Stone Balustrade

 Proposed New Material

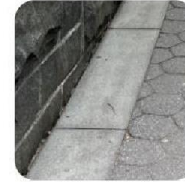
# Proposed Palette - Rockefeller Park



Hex Paver



Cobblestone



Stone Band



Demetri Pavilion Paver



Pink Granite



Railing



Typical Light Pole



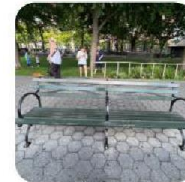
Plant Rail



Stone Wall



Concrete Benches



1939 World's Fair Bench



Plant Rail



Stone Curbs



Metal Fence



Precast Seating



Stone Edge

# Proposed Paving



Non-permeable Hex Asphalt Paver



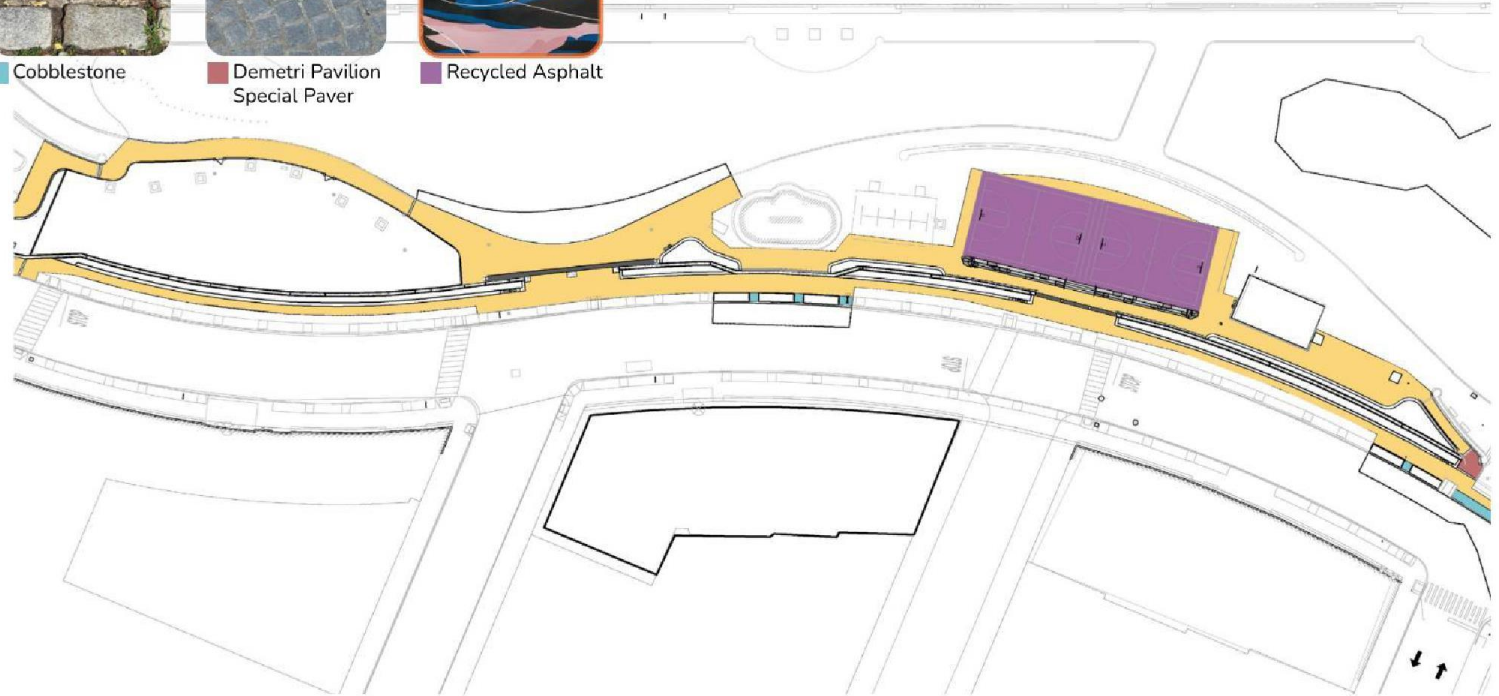
Cobblestone



Demetri Pavilion Special Paver



Recycled Asphalt



# Ball Courts | Connection to River Terrace

Existing

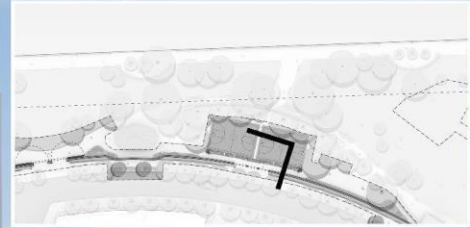


+ 11.90'



# Ball Courts | Connection to River Terrace

Proposed



**FBS Wall**  
(Materiality subject to BPCA 60% decision)

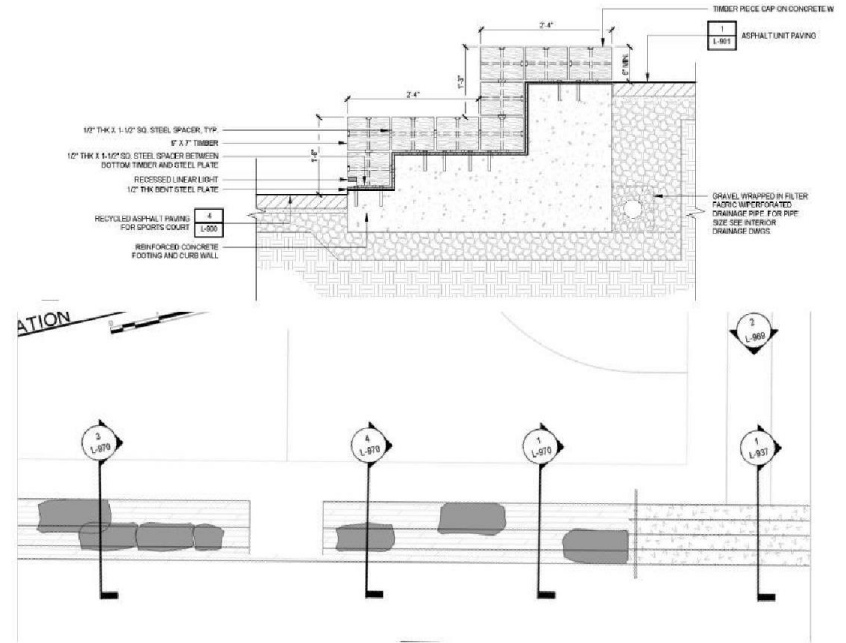
Top of Wall:  
+16.5'

Direct Access to Ball Courts

+14.00'

+11.90'

# Ball Court Seating - 40% Design



## Ball Court Seating - Design Development

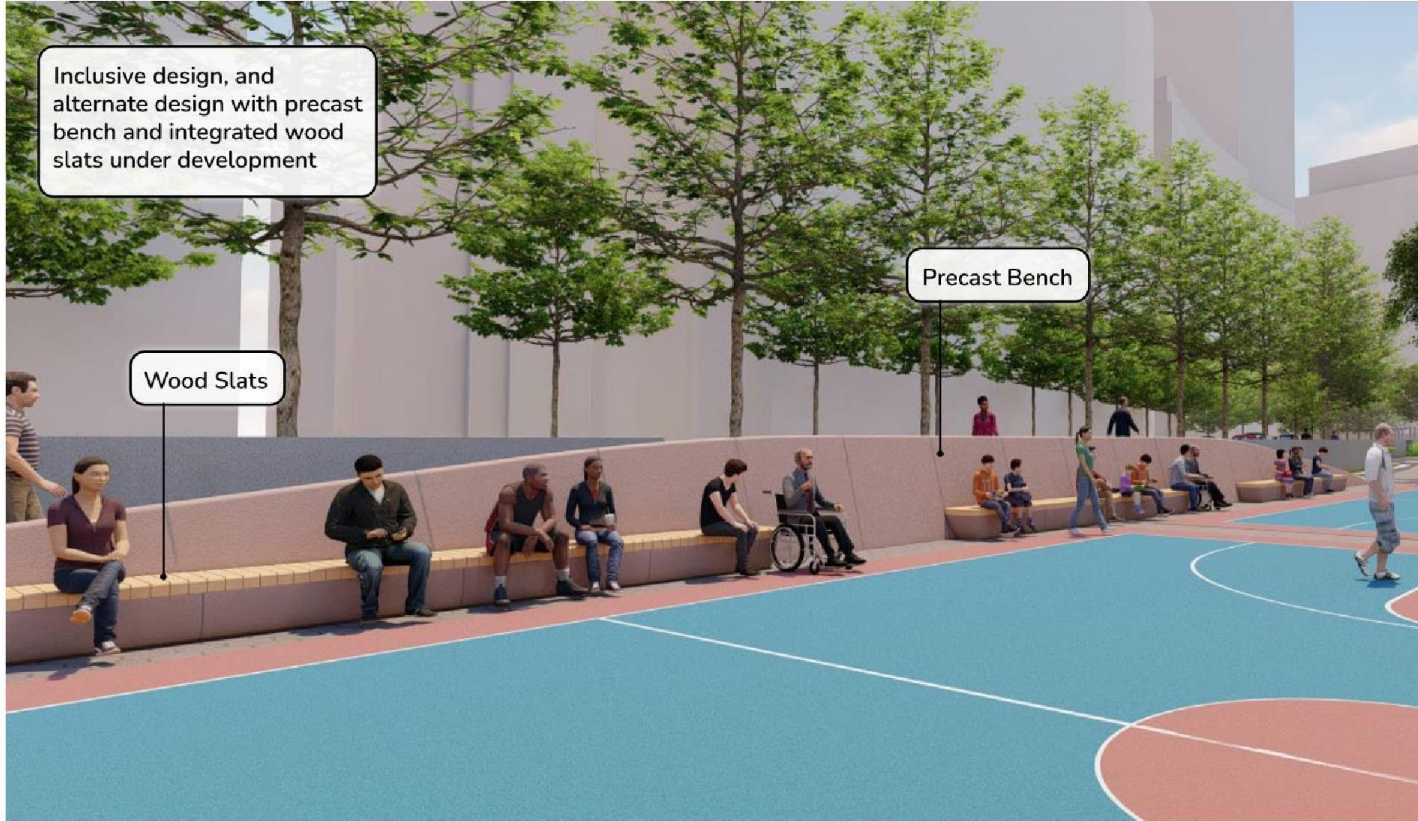
Inclusive design, and alternate design with precast bench and integrated wood slats under development

Wood Slats

Precast Bench



Precast Bench

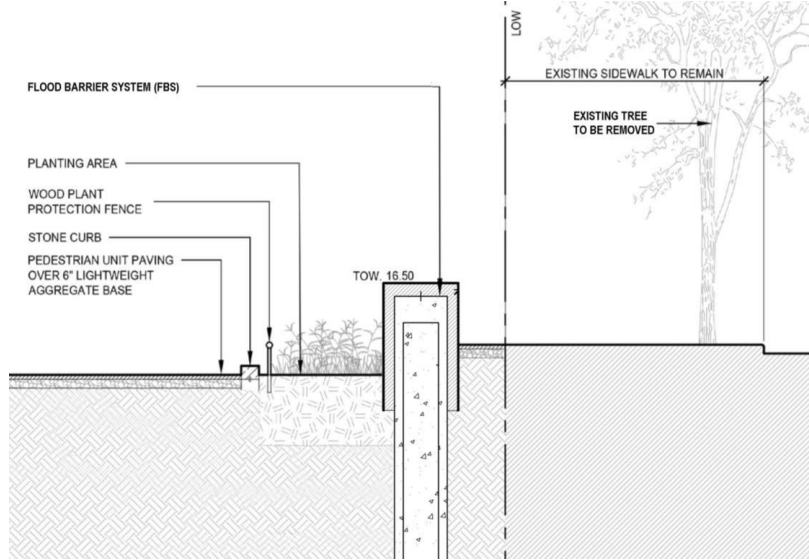


**RIVER TERRACE:  
OFFSET WALL APPROACH**

# Existing Conditions: Aerial view



## FBS Alignment Approaches



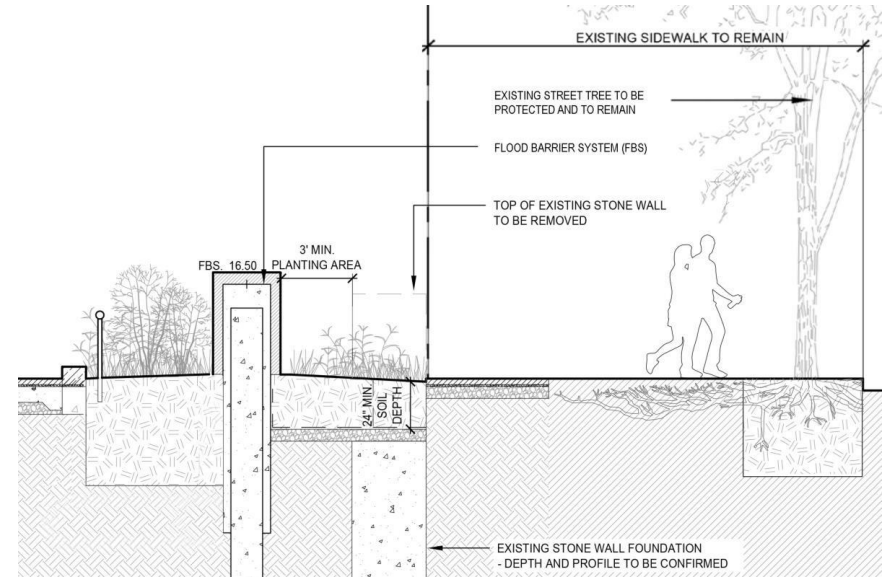
### FBS wall follows existing wall footprint

#### Pros:

- No encroachment into park area

#### Cons:

- Street trees will be removed
- Proximity to FBS will not allow for new trees to be planted
- Utilities in sidewalk will need to be relocated
- Removal of existing wall footing adds construction complexity



### FBS wall shifted into the park

#### Pros:

- Minimizes tree impact to street trees (approx. 20 trees protected)
- If trees are impacted during construction, distance from FBS allows for new trees to be planted
- Avoids utility conflict
- Avoids removal of existing wall footing (reduced construction complexity)

#### Cons:

- Limited encroachment into Rockefeller Park

## Flood Barrier System Follows Existing Wall Footprint: Tree Impact

### Previously Proposed

#### LEGEND

- LIMIT OF WORK
- PROPOSED FLOOD BARRIER SYSTEM
- IMPACTED TREE
- TREES RECENTLY REMOVED
- PROTECTED TREE



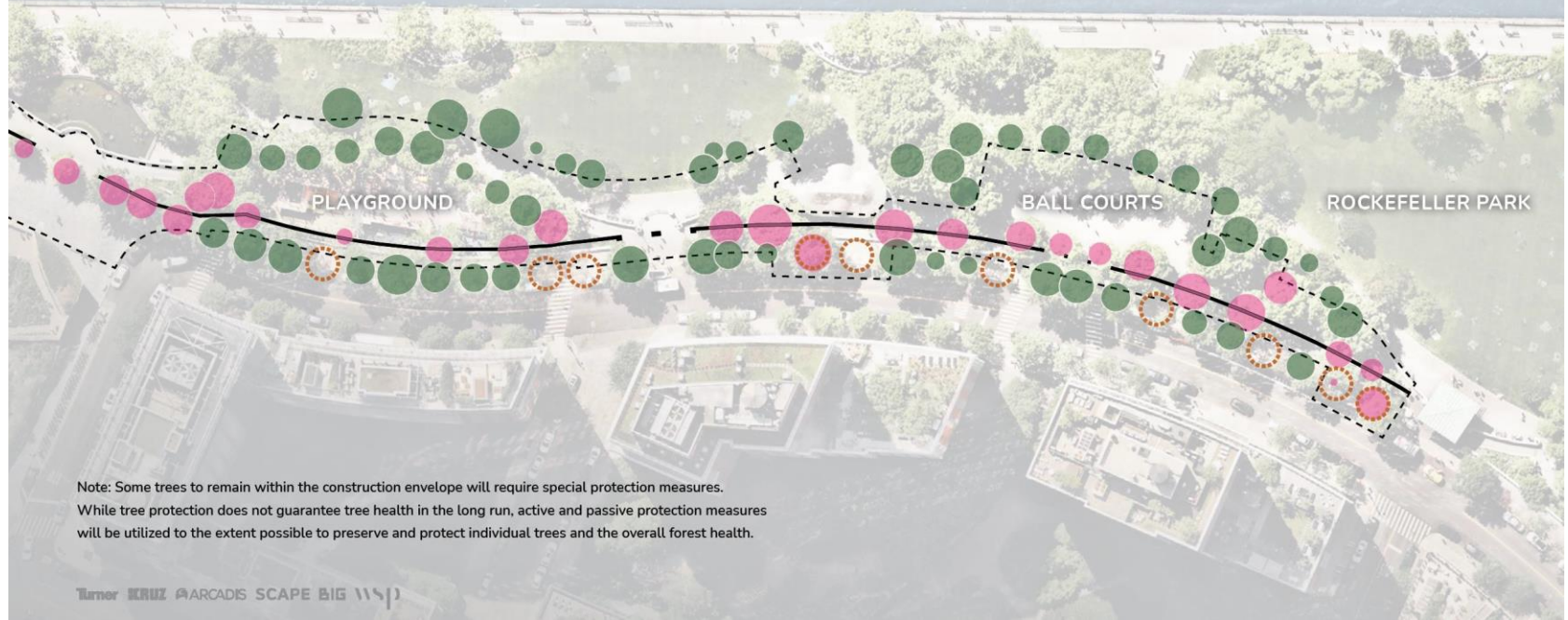
Note: Some trees to remain within the construction envelope will require special protection measures. While tree protection does not guarantee tree health in the long run, active and passive protection measures will be utilized to the extent possible to preserve and protect individual trees and the overall forest health.

# Flood Barrier System Shifted into the Park: Tree Impact

## Updated Proposed Approach

### LEGEND

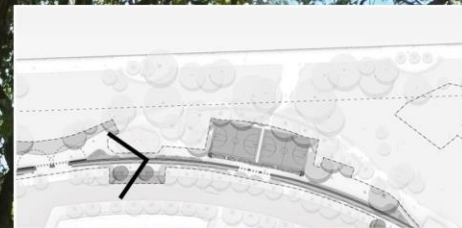
- LIMIT OF WORK
- PROPOSED FLOOD BARRIER SYSTEM
- IMPACTED TREE
- NEW PROPOSED TREES
- PROTECTED TREE



Note: Some trees to remain within the construction envelope will require special protection measures. While tree protection does not guarantee tree health in the long run, active and passive protection measures will be utilized to the extent possible to preserve and protect individual trees and the overall forest health.



# Existing Conditions: View along Sidewalk

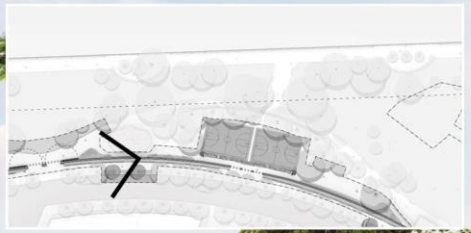


Top of Wall: +15.75'

2.75'

+13.00'

# Proposed Design: View along Sidewalk



Stormwater Bioswale

Floodwall Offset from Previous Stone Wall Location, New Planting along Sidewalk

Top of Wall: +16.5'

FBS Wall  
Materiality under Development

+13.00'

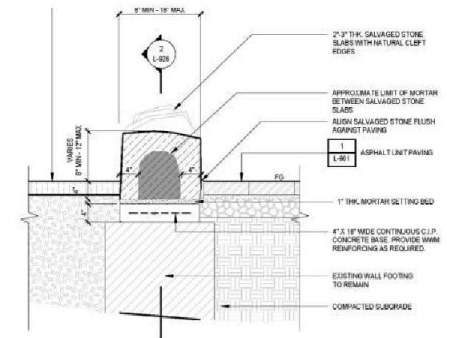
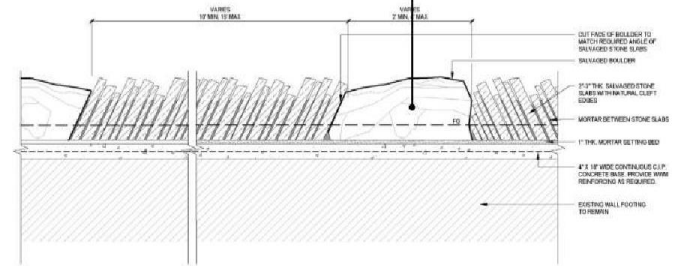
3.5'

# Salvaged Stone Edge

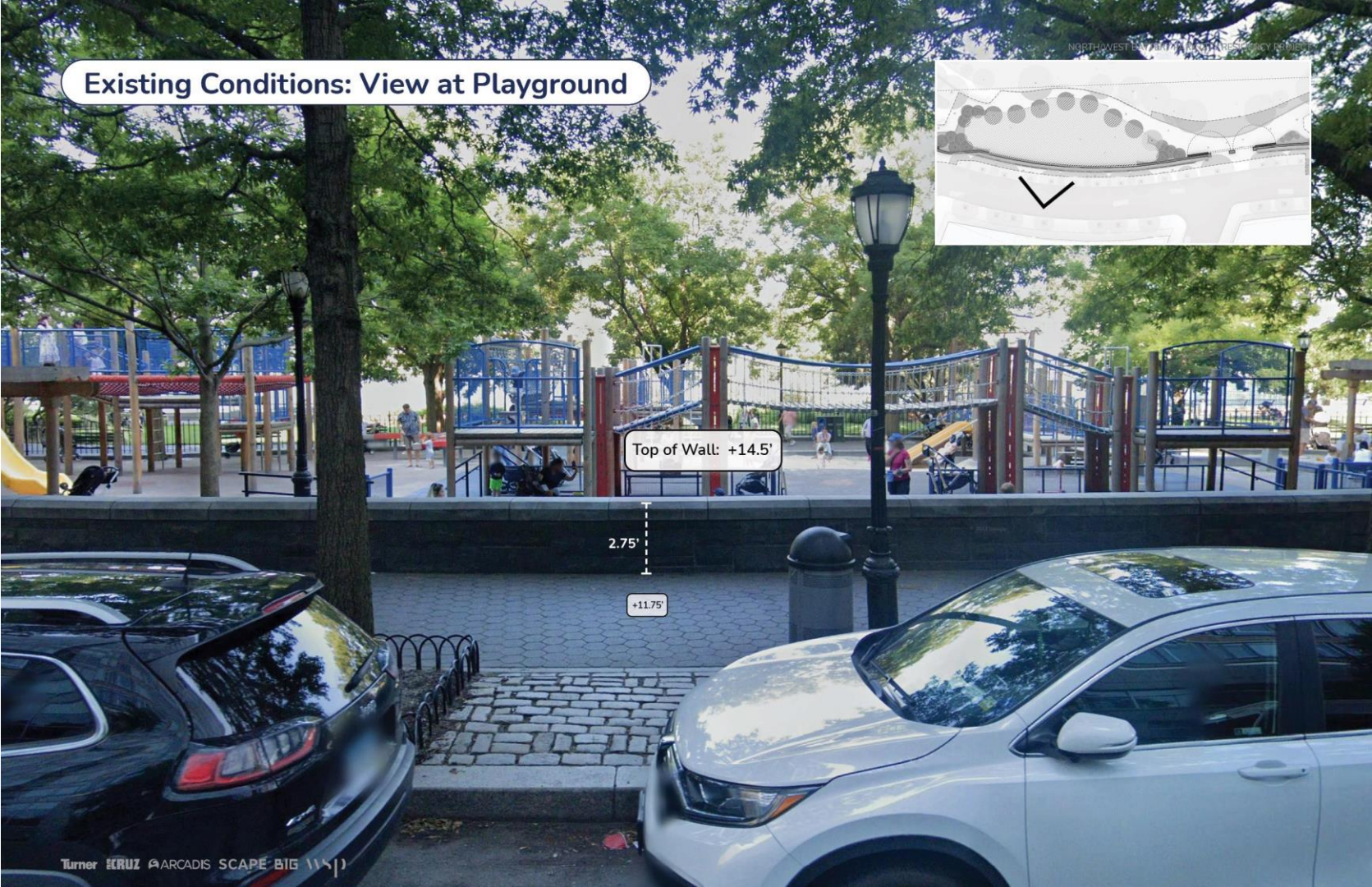
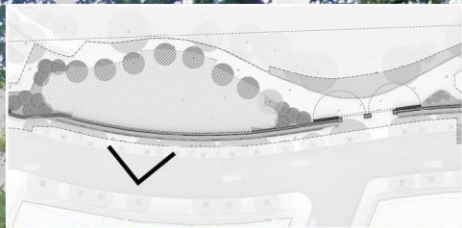


Salvaged Stone

Quarried boulder or other stabilizing measures under development



# Existing Conditions: View at Playground

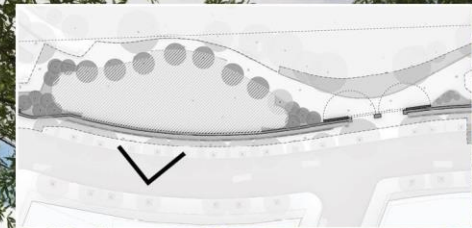


Top of Wall: +14.5'

2.75'

+11.75'

# Proposed Design: View at Playground



**FBS Wall**  
Materiality under Development

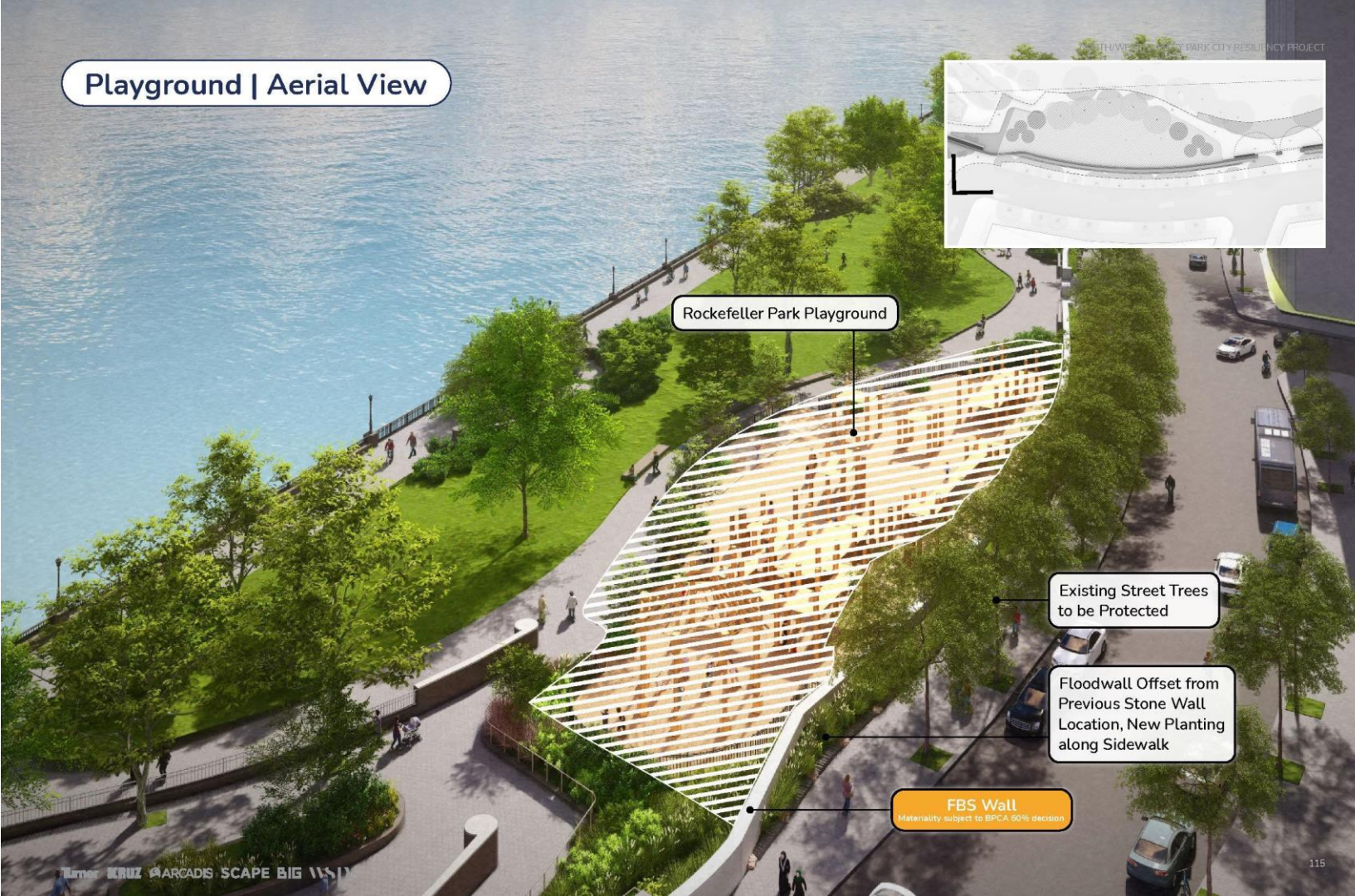
Top of Wall: +16.5'

Floodwall Offset from Previous Stone Wall Location, New Planting along Sidewalk

4.75'

+11.75'

# Playground | Aerial View



Rockefeller Park Playground

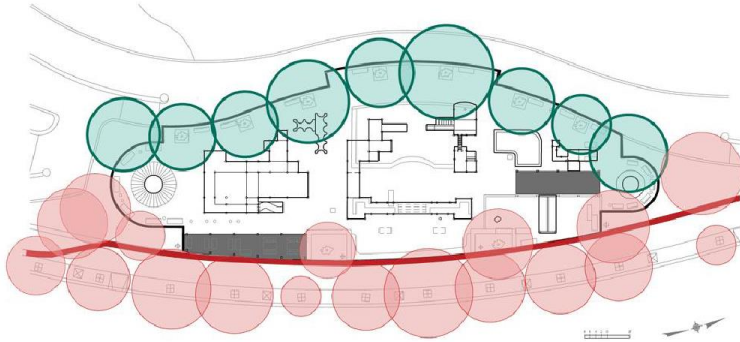
Existing Street Trees to be Protected

Floodwall Offset from Previous Stone Wall Location, New Planting along Sidewalk

FBS Wall  
Materiality subject to BPCA 60% decision

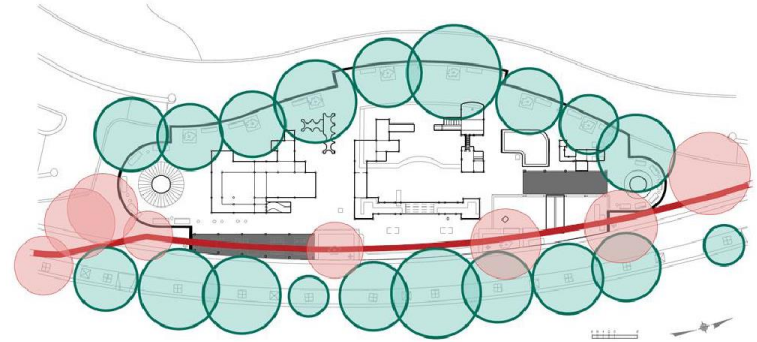
## Comparison: Tree Impact

### Non-Offset Wall



- 27 existing trees within playground vicinity
- 18 trees in total impacted by FBS:
  - 11 street trees
  - 7 playground trees

### Offset Wall

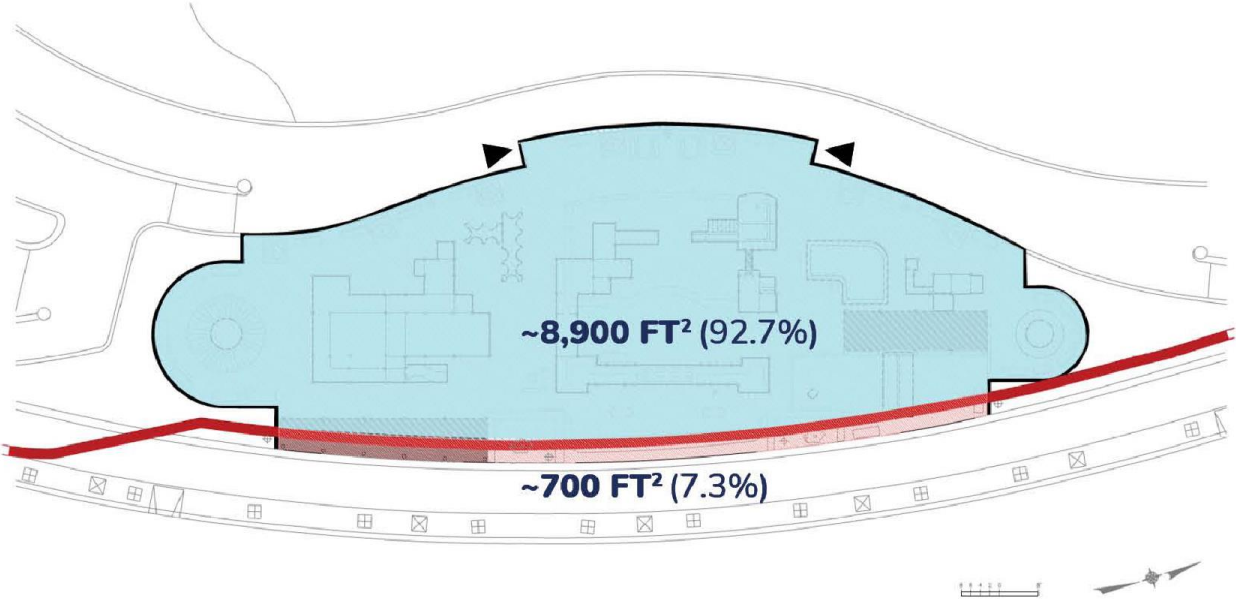


- 27 existing trees within playground vicinity
- 8 trees in total impacted by FBS:
  - 1 street tree
  - 7 playground trees

# Impact of Offset Alignment on Playground Footprint

**LEGEND**

-  PROPOSED FBS AT OFFSET LOCATION
-  USABLE AREA
-  AREA LOST TO FBS





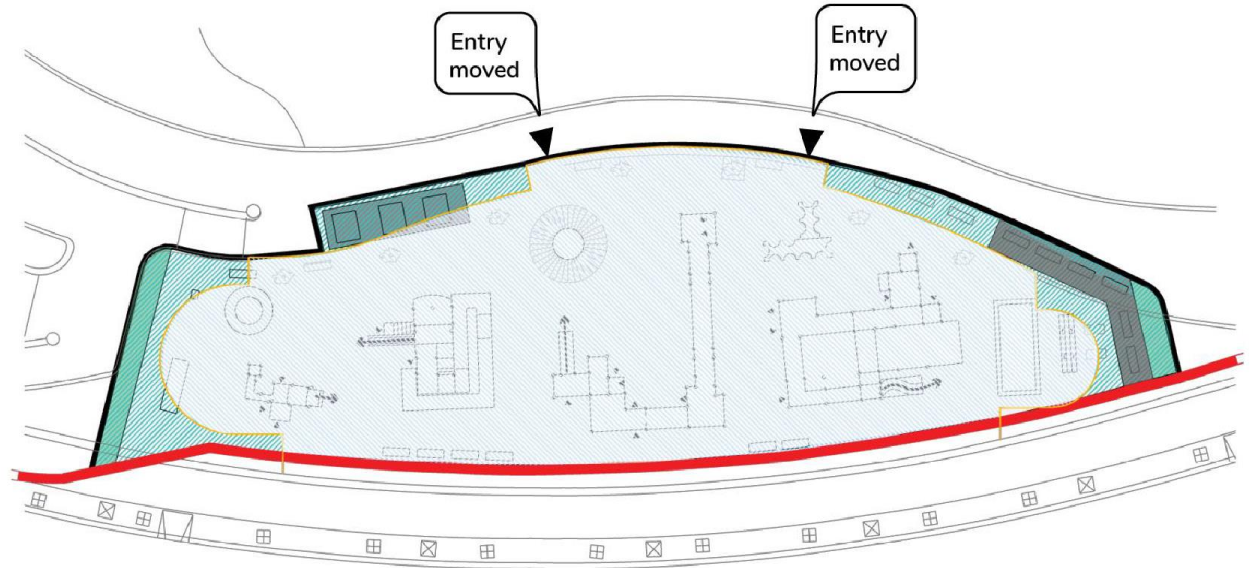
## Offset Alignment with Expanded Footprint

### LEGEND

- PROPOSED FBS OFFSET LOCATION
- CURRENT PLAYGROUND FOOTPRINT
- EXPANDED PLAYGROUND FOOTPRINT

Note: additional area is conducive to seating, stroller space and play features with reduction of planted buffers at playground perimeter

AREAS	SQ. FT
Existing Total	~9,600 ft <sup>2</sup>
Removed for FBS	~700 ft <sup>2</sup>
Added	~1,700 ft <sup>2</sup>
New Total	~10,600 ft <sup>2</sup>



Reach 4 Updates

3



# Lily Pond | Plan



# Esplanade and Ferry Terminal | Plan

**LEGEND**

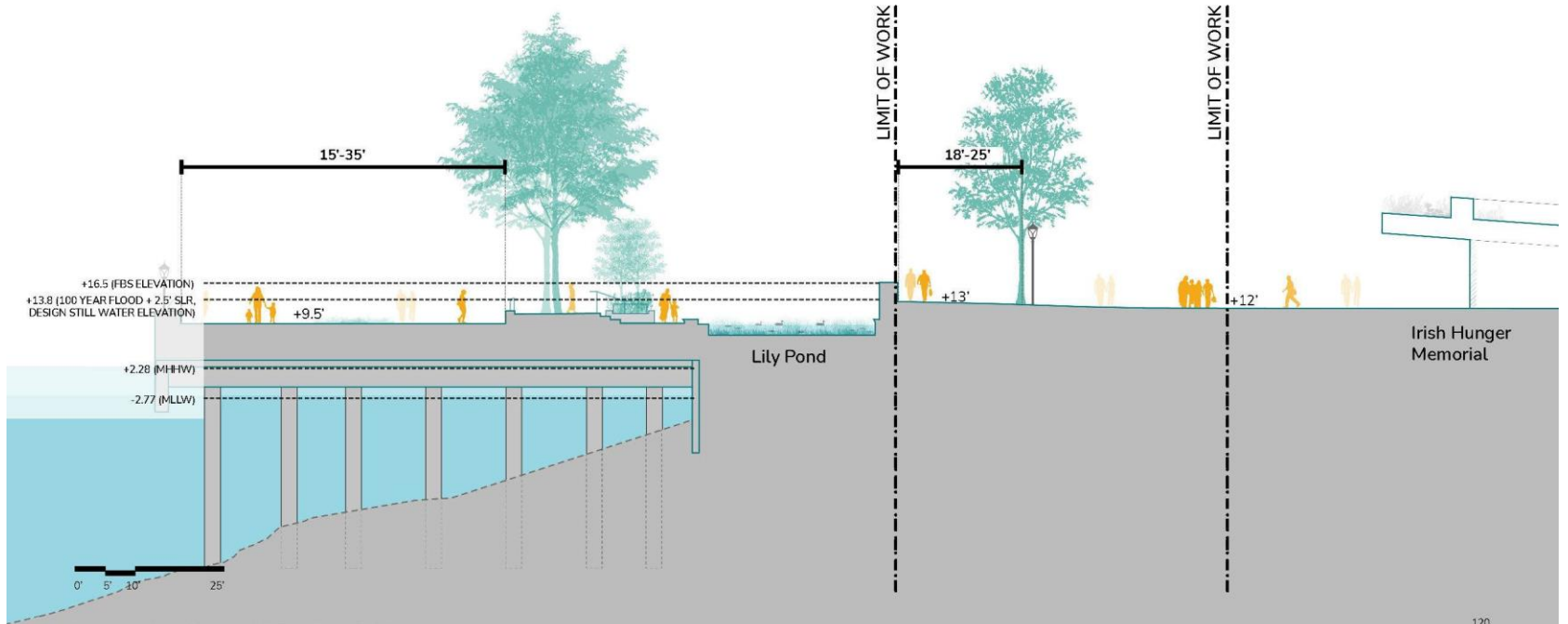
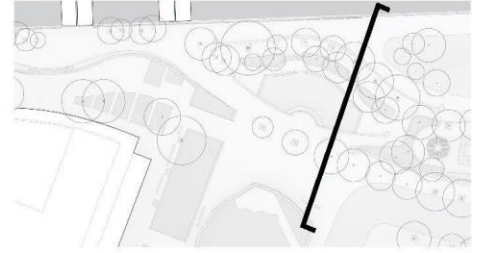
- FLOOD BARRIER SYSTEM (WALL)
- FLOOD BARRIER SYSTEM (DEPLOYABLE)
- EXISTING RELIEVING PLATFORM
- PLATFORM RECONSTRUCTION AREA
- EXISTING TREES
- NEW TREES
- LIMIT OF WORK

0' 10' 20' 50' N



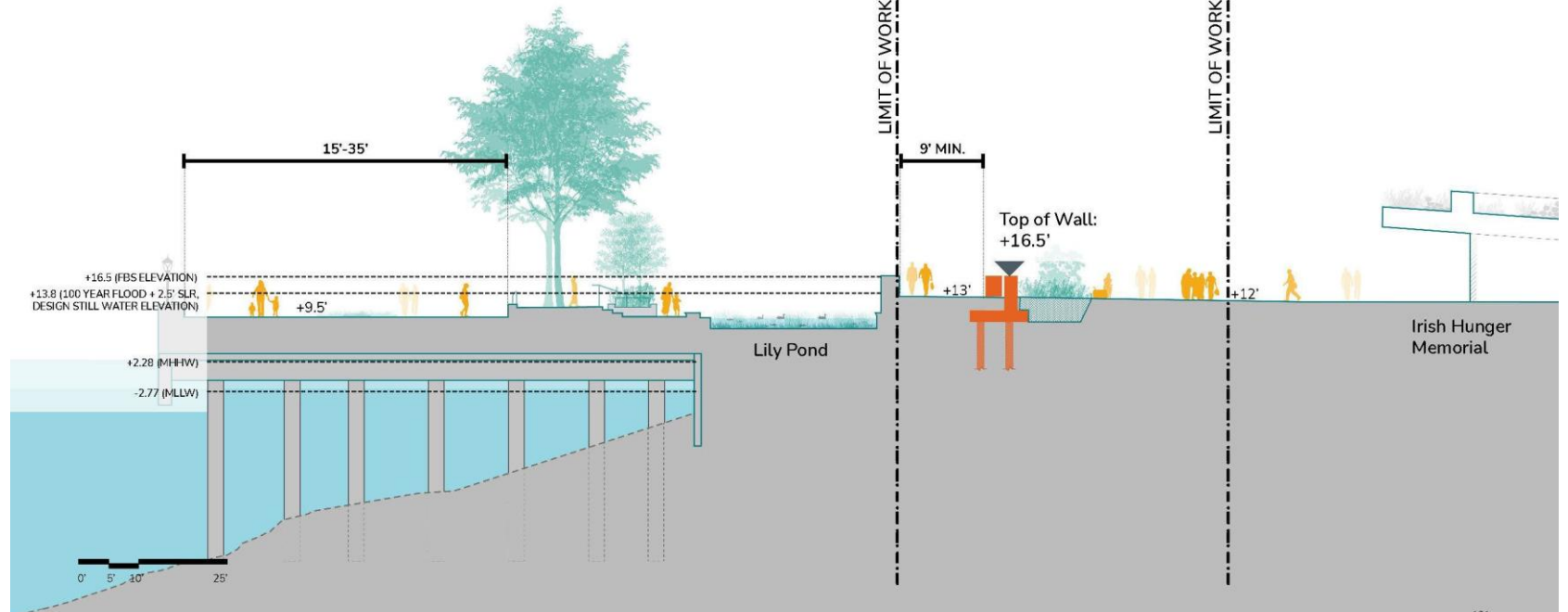
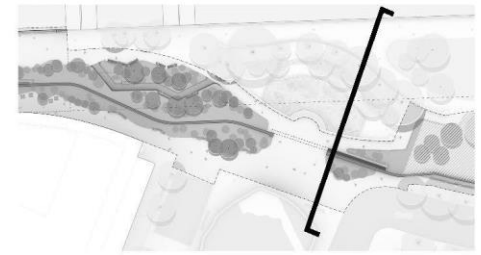
# Lily Pond | Section

Existing



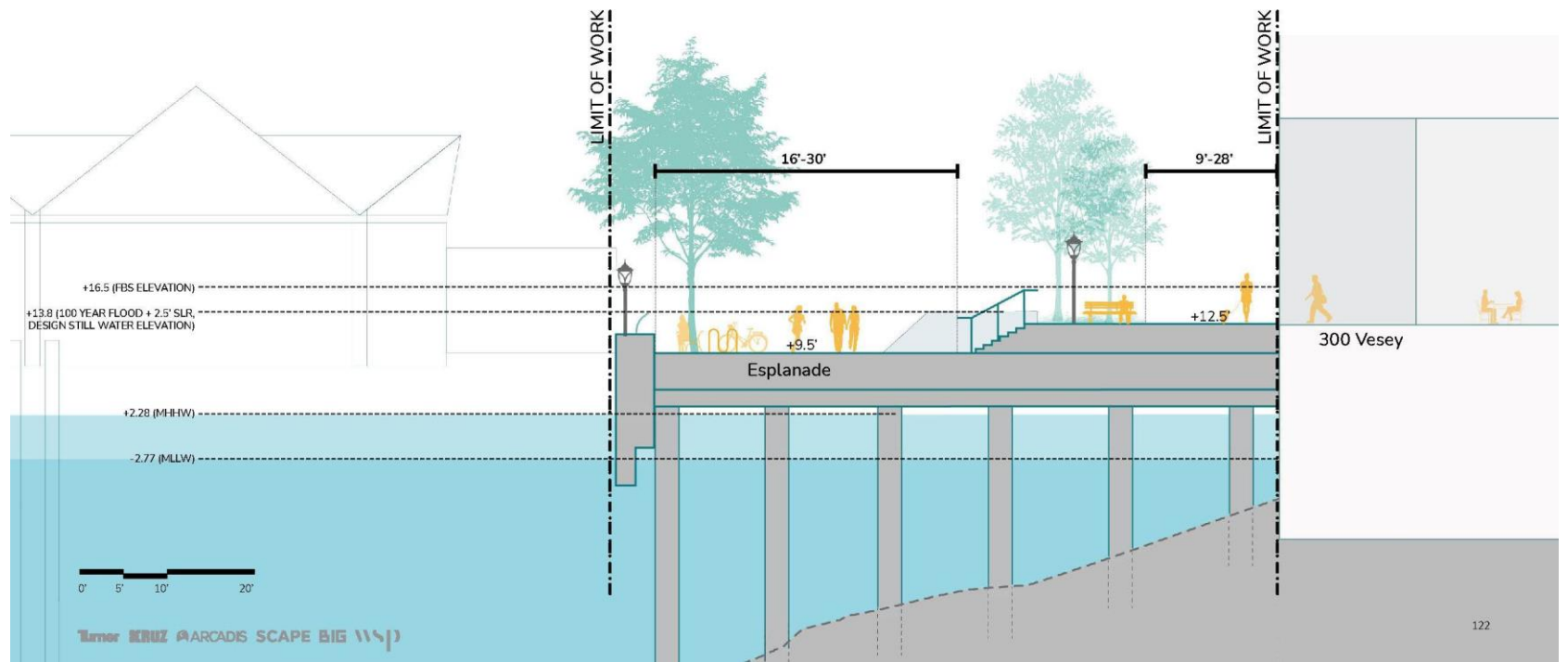
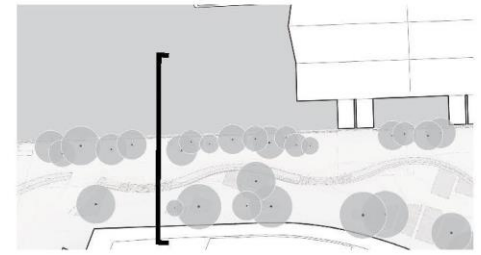
# Lily Pond | Section

Proposed



# Esplanade | Section

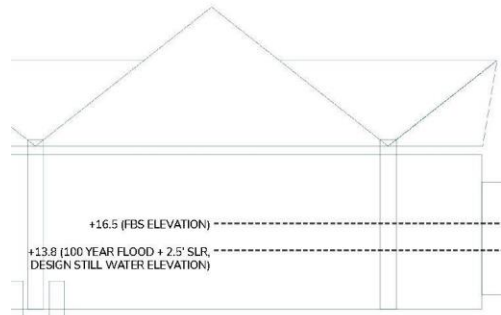
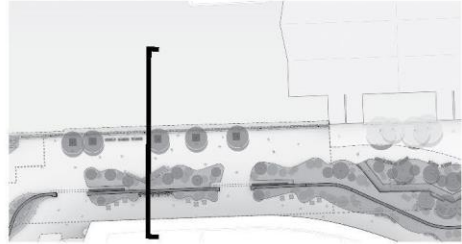
Existing





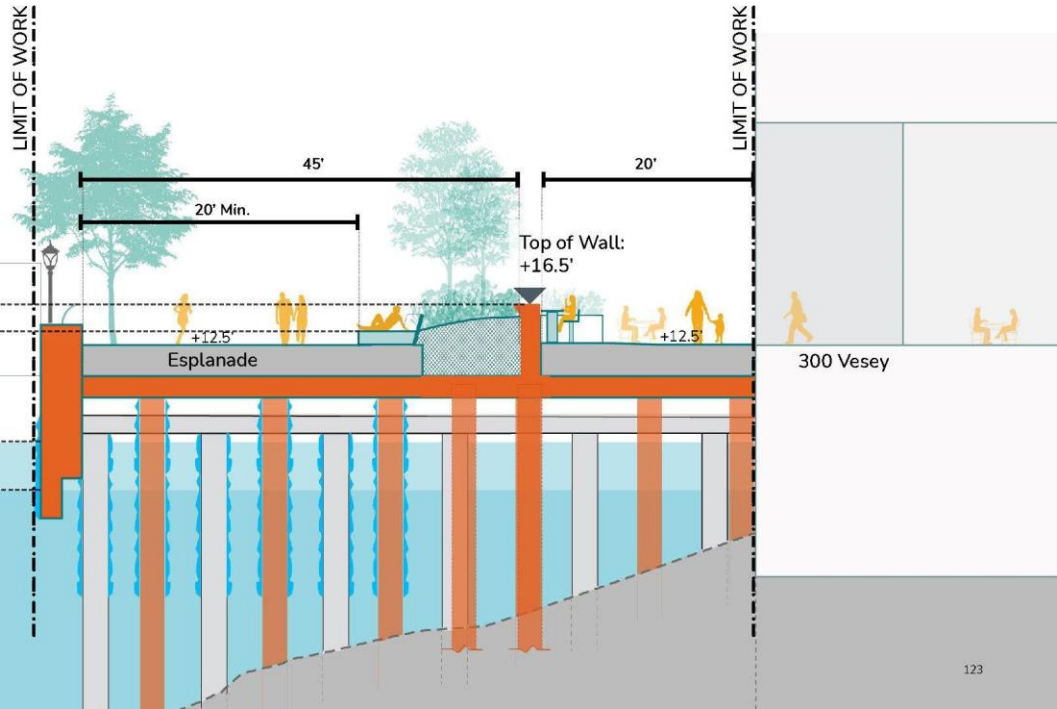
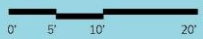
# Esplanade | Section

Proposed



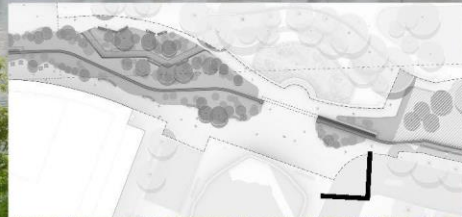
+16.5' (FBS ELEVATION)  
+13.8' (100 YEAR FLOOD + 2.5' SLR  
DESIGN STILL WATER ELEVATION)

+2.28' (MHHW)  
-2.77' (MLLW)



# Lily Pond | Aerial View

Proposed



Existing Lily Pond

+12.40'

+13.00'

Expanded planting and seating area and reduced hardscape

**FBS Wall**  
Materiality subject to BPCA 80% decision

Top of Wall:  
+16.5'

+10.00'

+12.00'

# Lily Pond | View from Irish Hunger Memorial

Existing



Top of Wall:  
+16.5'

+13.00'

# Lily Pond | View from Irish Hunger Memorial

Proposed



Lush planting and seating along floodwall

**FBS Wall**  
Materiality subject to BPCA 60% decision

Top of Wall: +16.5'

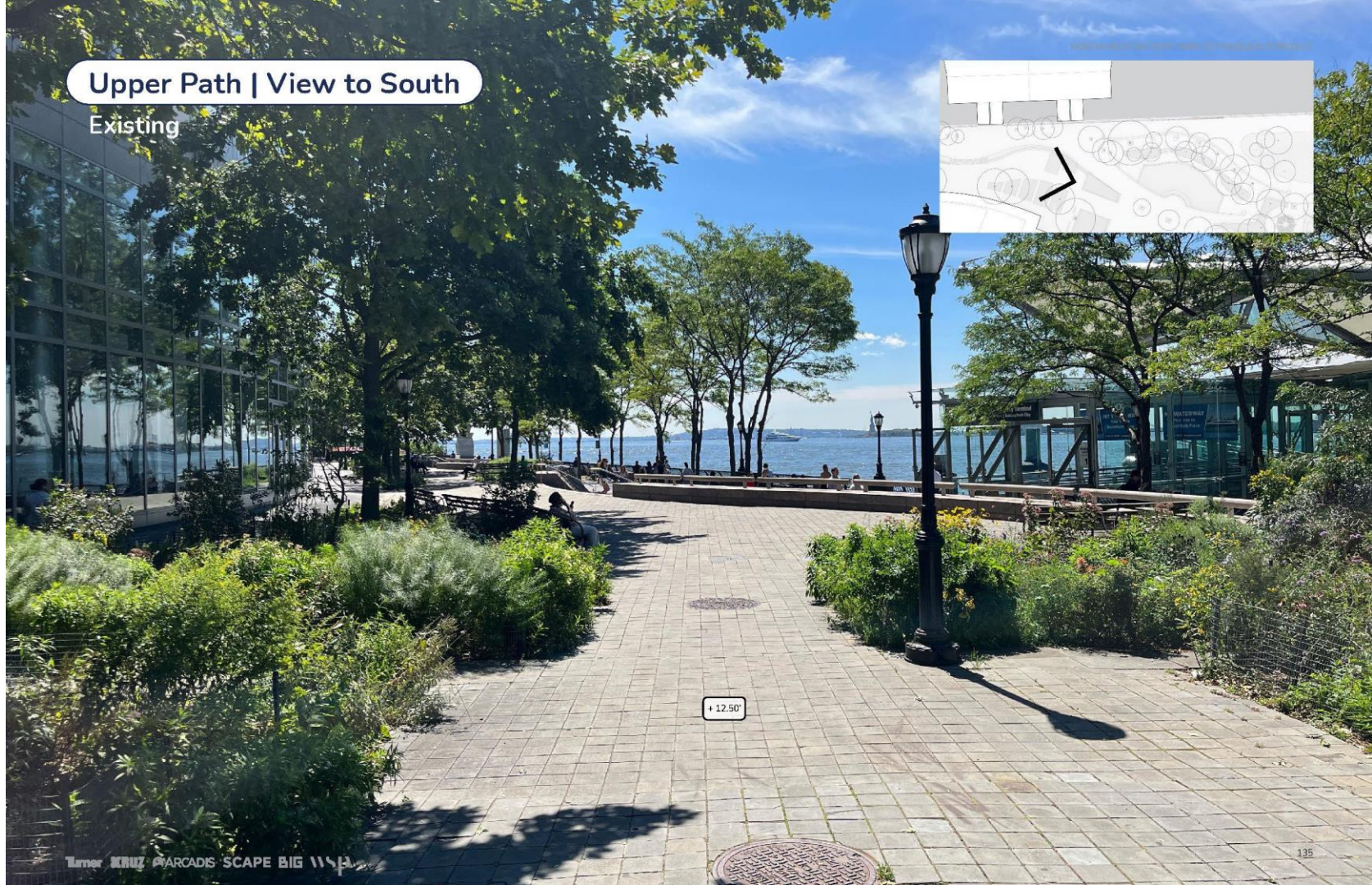
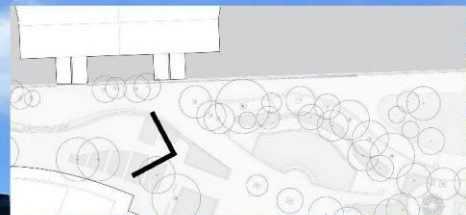
+13.00'

+12.00'



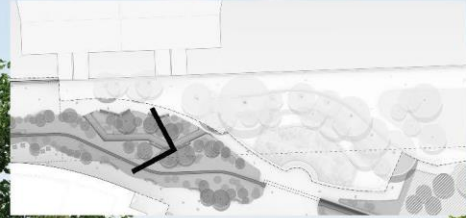
# Upper Path | View to South

Existing



# Upper Path | View to South

Proposed



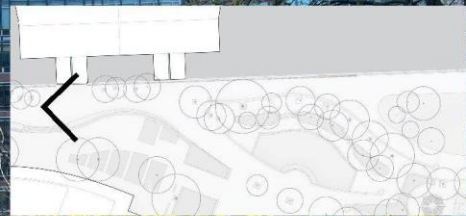
Top of Wall:  
+16.5'

Planted Berm

+12.40'

# Ferry Terminal | View from South

Existing

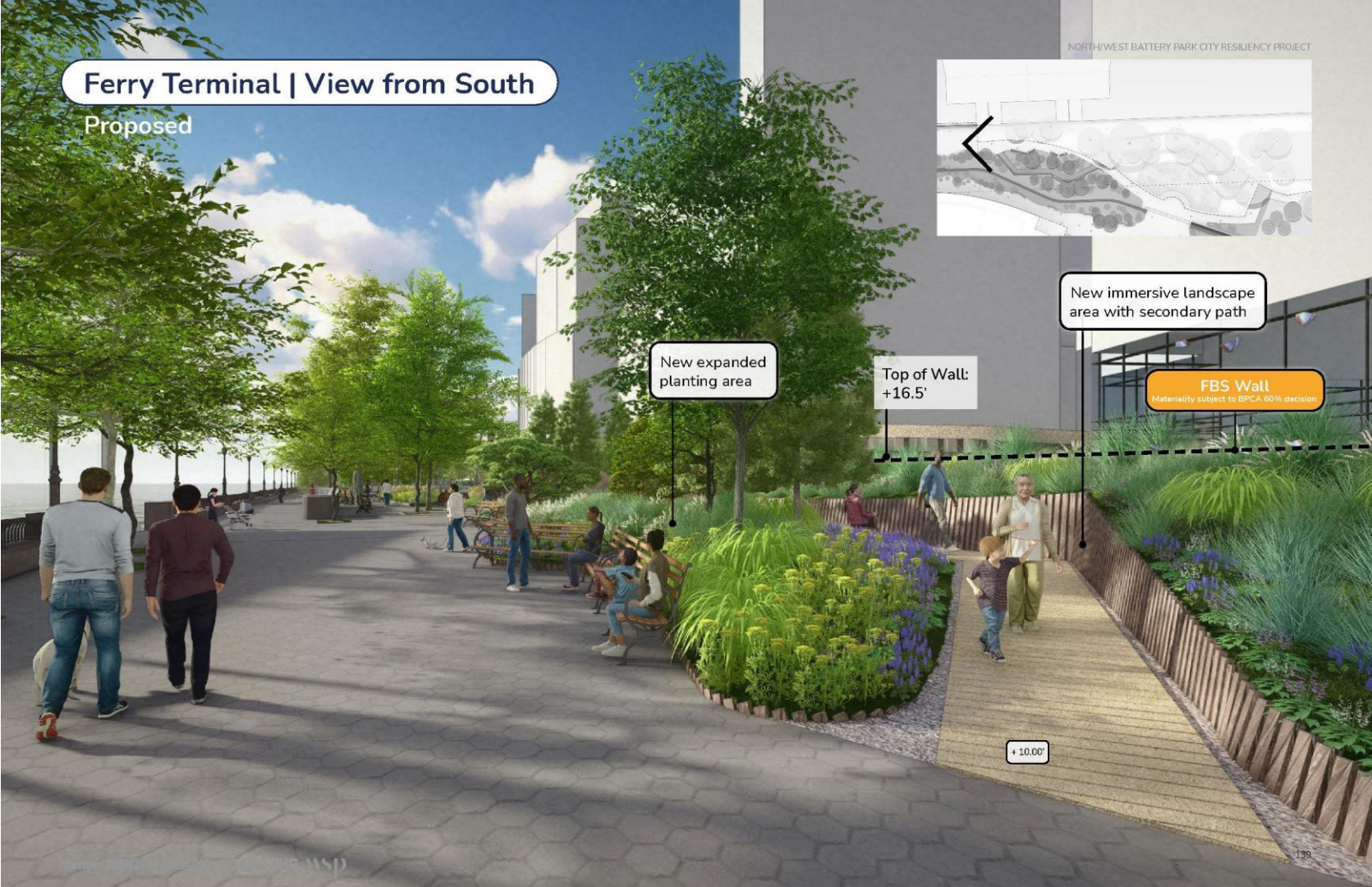
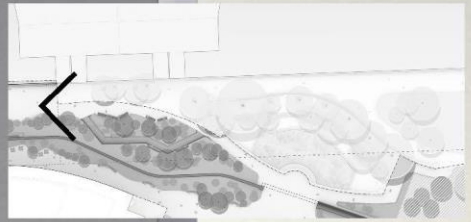


Top of  
Wall: +14'

+ 9.50'

# Ferry Terminal | View from South

Proposed



New expanded planting area

Top of Wall: +16.5'

New immersive landscape area with secondary path

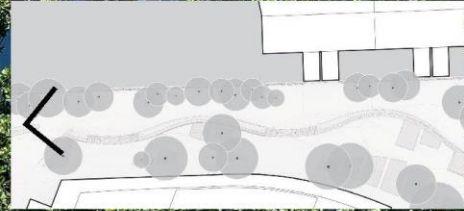
**FBS Wall**  
Materiality subject to BPCA 60% decision

+10.00'



# Esplanade and Ferry Terminal | View to North

Existing



Top of Wall: +14'

Typ. Width Range  
16' - 35'

+9.50'

# Esplanade and Ferry Terminal | View to North

Proposed



Custom Lounge Seating

Top of Wall:  
+16.5'

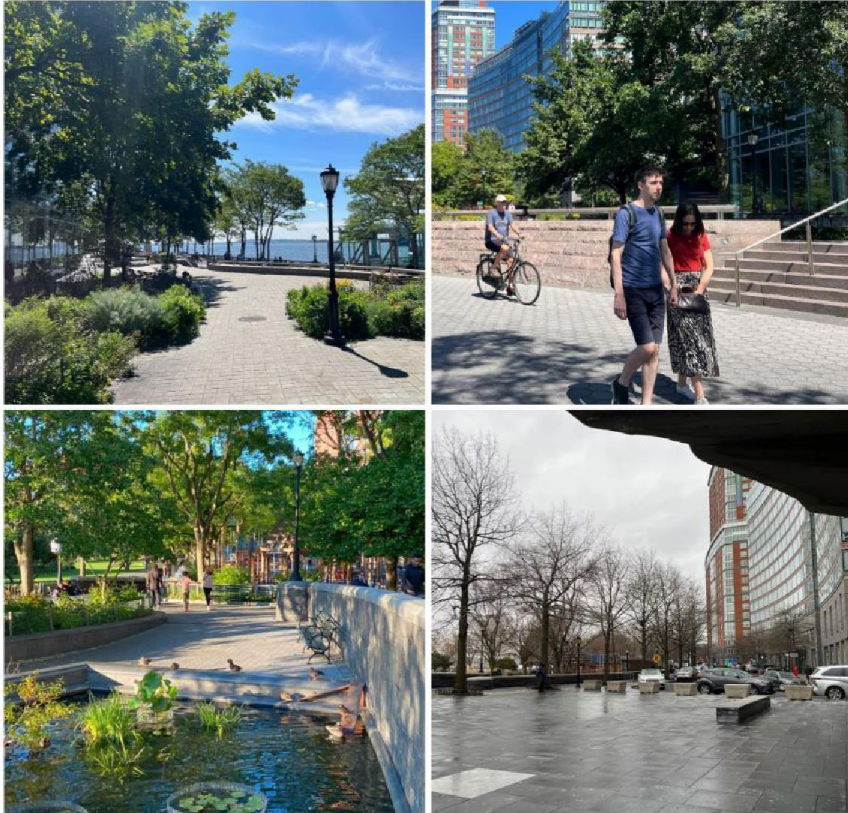
**FBS Wall**  
Materiality subject to BPCA 60% decision

← Typ. Width Range 20' – 26' →

+12.50'

+12.50'

# Existing Palette - Ferry & Lily Pond



Hex Paver



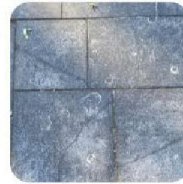
Stone Band



Railing



Plant Rail



Irish Hunger Memorial Paver



Typical Light Pole



Drain Covers



Bollards



Lily Pond Stone



1939 World's Fair Bench



Glass Benches



Natural Cleft Pink Granite w/ Wood Handrail



Cobblestone



Bluestone Paver



Flamed Granite Paver

Proposed New Material

# Proposed Palette - Ferry & Lily Pond



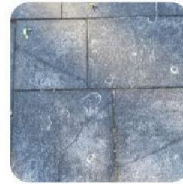
Hex Paver



Stone Band



Railing



Irish Hunger Memorial paver



Typical Light Pole



Drain Covers



Bollards



Lily Pond Stone



1939 World's Fair Bench



Glass Benches



Timber Loungers



Bar and Stools



Precast Plank Pavers



Wood-Clad Planter Wall



Movable Table and Chairs

# Proposed Paving



Non-permeable Hex Asphalt Paver



Irish Hunger Memorial special paver



Permeable Hex Asphalt Paver (Romex)



Precast Plank Paver



Proposed New Material

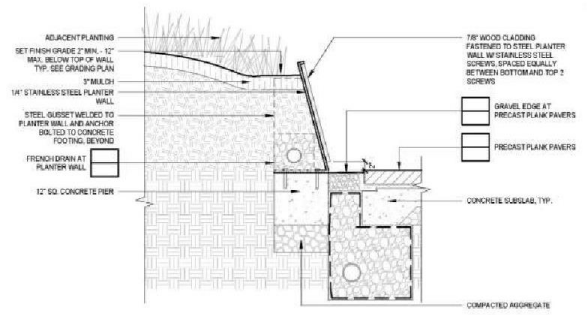
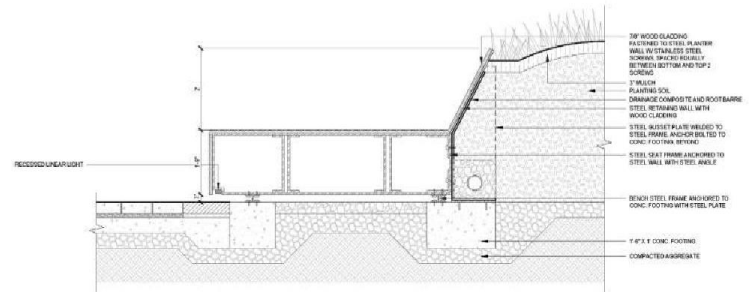
# Lounge Seat and Wood-Clad Planter Wall



Lounge Seat



Wood-Clad Planter Wall



Proposed New Material

# Secondary Landscape Path



Precast Plank Pavers



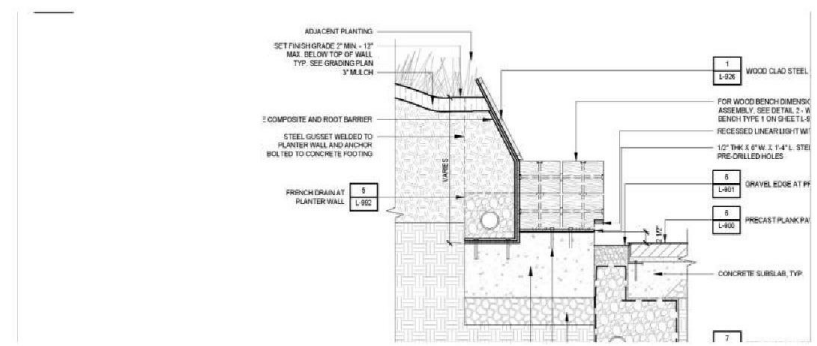
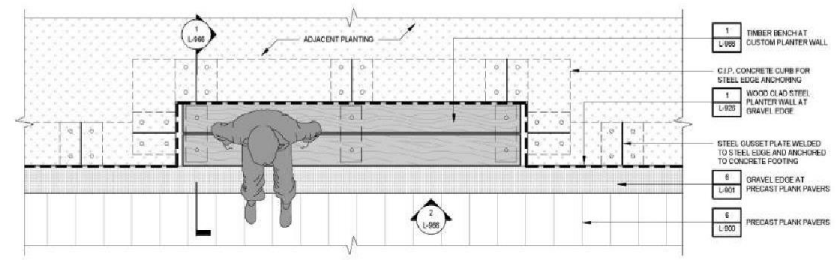
Wood Bench



Wood-Clad Planter Wall



Gravel Edge



# South Battery Park City Resiliency





# South Battery Park City Resiliency- Construction Schedule

- **Phase 1: MJH & Wagner Park Site/Pavilion:**
  - Construction Underway
- **Phase 2: Pier A/Battery/Interior Drainage:**
  - Construction Underway
- **Project Construction Completion: Spring 2025**



# South Battery Park City Resiliency- Construction Updates

- Architectural Concrete foundation wall has been poured (below left)
- Pavilion Cellar Slab has been poured
- Soil anchor testing ongoing along Flood Barrier System
- Retaining wall at esplanade being installed
- Geofoam installation in progress (below right)
- Micropiles being installed along First Place



# South Battery Park City Resiliency- Contact Information

Questions and feedback about SBPCR can be sent to:

**Katie MacDougall**  
**Community Construction Liaison**  
**(917) 624-5409**  
**[bpcrinfo@bpca.ny.gov](mailto:bpcrinfo@bpca.ny.gov)**

*or by mail:*

**Battery Park City Authority 200 Liberty  
Street, 24th Floor New York, NY 10281  
att: South BPC Resiliency Project Team**



# Battery Coastal Resilience

# LMCR - The Battery

EDC Managing Project on Behalf of Parks

## Design

- 100% Design complete – June 2023
- Seeking Envision Certification (program to lower carbon footprint for large infrastructure projects)

## Construction Updates

- NPS West Security Tent Demolition Complete – March 2024
- Phase 1 salvage work Complete – March 2024
- Marine Mobilization – March 2024
- Community Liaison – Karp Strategies

## Conceptual Rendering



## Upcoming Milestones

- Existing wharf demolition - to begin March 2024
- Sheet Pile installation to begin April 2024
- Anticipate start of pile driving for new wharf - Spring 2024.

# LMCR - The Battery

## Community Construction Liaison – Karp Strategies

- Will be working with the construction team to address community questions / concerns.
- Will provide regular updates to the Community Board.
- Community Board Site Walk held Wednesday March 13, 2024
- Contact: **Lily Zaballos, Karp (347) 201-1596**

For more information visit us at:

<https://www.nyc.gov/site/lmcr/progress/battery-coastal-resilience.page>

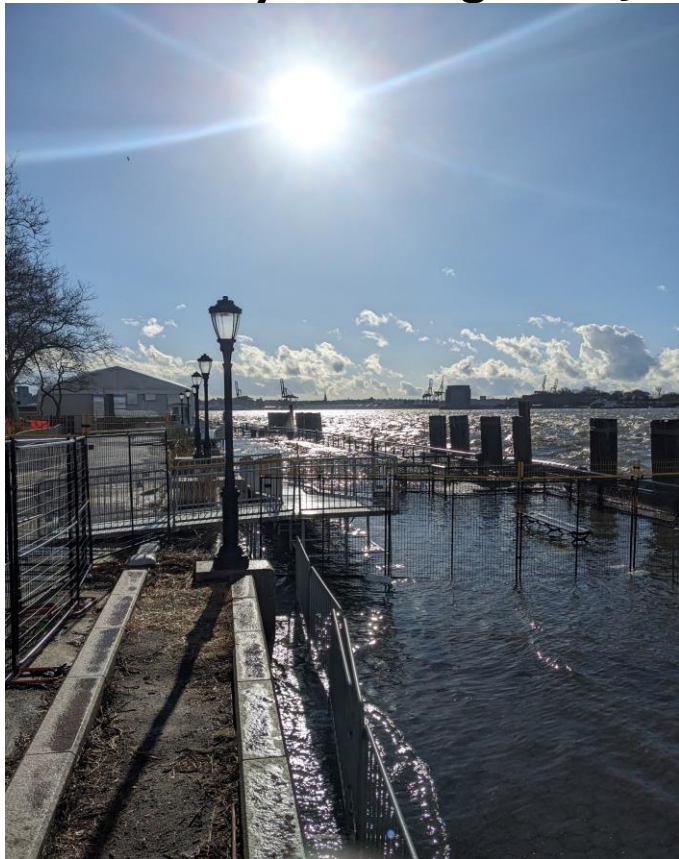
Or email us at:

[info@batterycoastalresilience.com](mailto:info@batterycoastalresilience.com)

## Conceptual Rendering



# The Battery Flooding from January 13<sup>th</sup> Storm



# Current progress: National Park Service West Tent Demolished





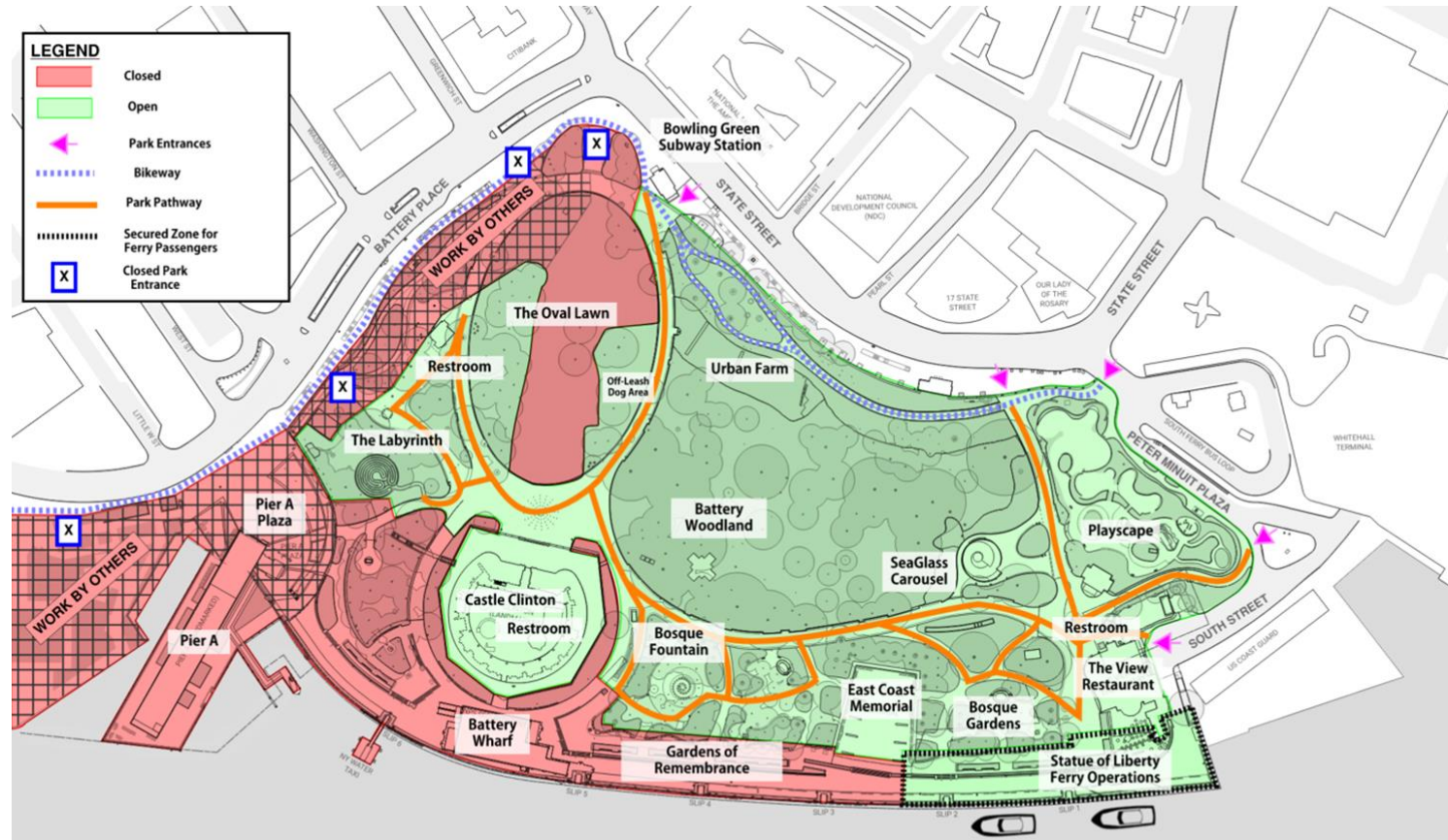
# Current Progress: Hardscape Salvage



# Current Progress: Marine Mobilization



# Current Status of the Battery



# Site Visit with CBI | March 13





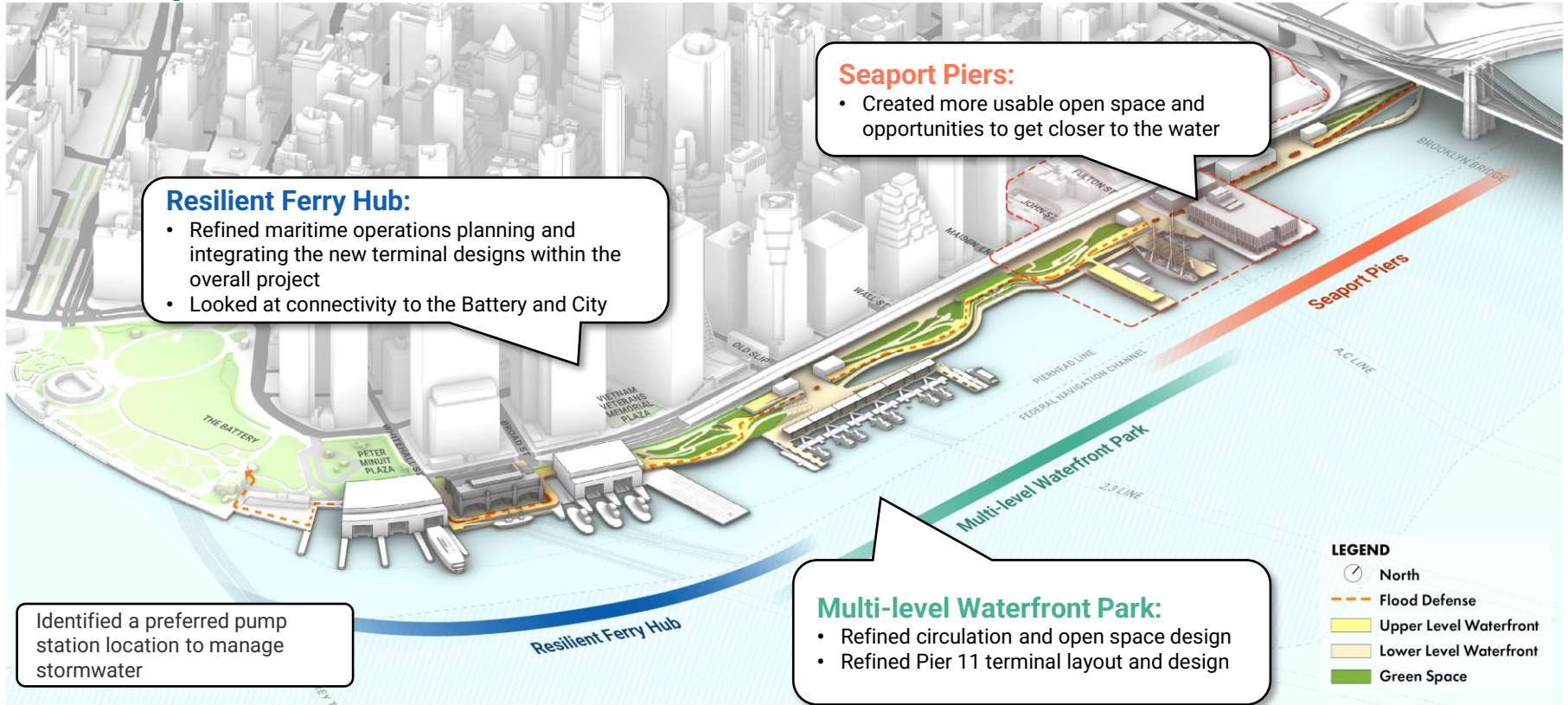
# Financial District & Seaport Climate Resilience Plan Updates

March 18, 2024

# Agenda

- Phase V Recap
- Upcoming Milestones

In Phase V, we refined the design to integrate Resilience+ infrastructure into **three distinct destinations** along the waterfront, each with shared flood defense solutions & user experiences.







# Upcoming Milestones

- **March 28:** Energy & Sustainability Workshop
- **Summer 2024:** Schematic design (15-20%) for base infrastructure
- **End of 2025:** Preliminary design (30%) for base infrastructure
- Advancing implementation strategy, including phasing and financing plan
- Continuing in-person tabling and engagement with community stakeholders to spread awareness of project

SEAPORT COASTAL RESILIENCY (SPCR)



# What is the Seaport Coastal Resiliency Project?

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

- This project proposes raising the shoreline 3-5 feet in the area from the Brooklyn Bridge to Imagination Playground
- Scope includes potential esplanade improvements, ecological enhancements, and green infrastructure to address stormwater management
- AECOM has been procured as a design consultant, has just recently been mobilized.
- Details and a refined plan will be provided as we progress through the design process.



# The Team – AECOM and FHI



**PROJECT MANAGER**  
Elizabeth Thompson  
PE, ENV SP

- Experience delivering complex projects with tight schedules
- Ability to navigate reviews/approval processes with city agencies
- Work in downtown area after Sandy provides understanding of complex below grade utilities
- Thrives on improving New Yorkers' lives & revitalizing communities

## COMMUNITY ENGAGEMENT TEAM



**Ryan Walsh**  
AICP, PP



**Maura Fitzpatrick**

# In the first 100 days, the team will begin:

- Technical surveys and data gathering
- Environmental review process
- Community engagement outreach plan
- Initiating conceptual designs
- Initiating public art process



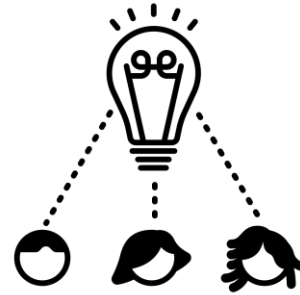
# How will we approach engagement?



## The engagement team believes in:

- A flexible, open-ended approach
- Starting early and connecting often
- Tailoring engagement to the Seaport community

**Please share ideas for the best way to engage the Seaport community!**



# Brooklyn Bridge-Montgomery Coastal Resilience Construction Update

CB1 Environmental Committee Meeting  
1 Centre Street  
March 18, 2024





# Highlights

- Project Status
- Construction Photos
- Greenway Detour
- Community Resources

# BMCR | Project Status

ALL WORK IS SUBJECT TO CHANGE

## Current Activities

- Water main upgrades
- Utility relocation & upgrades
- Floodwall construction
- Micropile installation
- Interceptor Gate Building Construction

## Upcoming Activities

- Greenway closure and bike detour between John Street and Market Slip

## Coordination

- ESCR—PC and PA1 Construction, Utility Work Coordination
- Ongoing coordination with DOT to maintain safe, greenway access
- NYC EDC Brooklyn Bridge Esplanade Project, Dover St. to Catherine Slip



# BMCR | Project Need

ALL WORK IS SUBJECT TO CHANGE



January 2024 via Catherine Hughes



January 2024 via Catherine Hughes

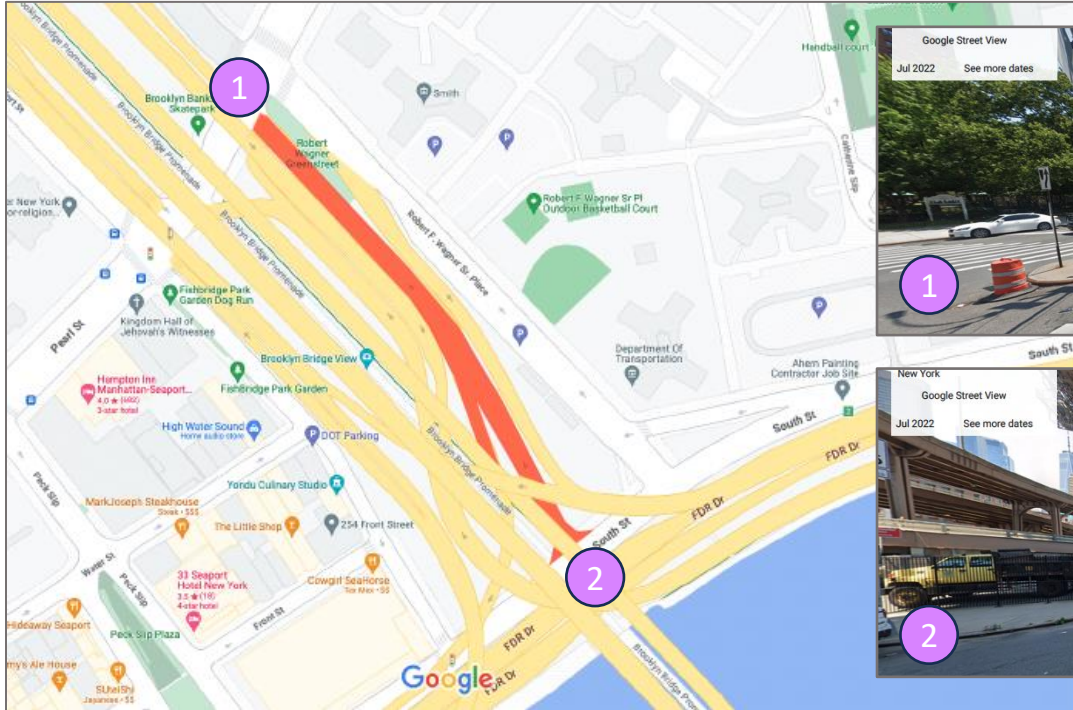
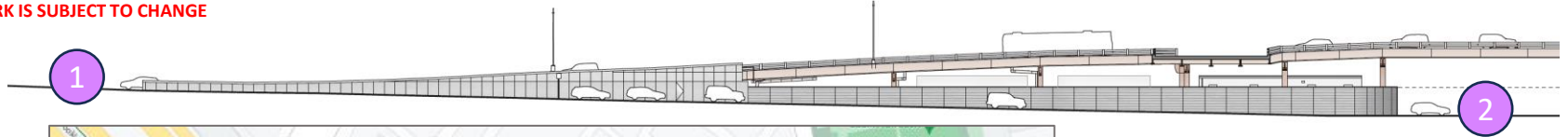
# BMCR | Construction Photos - Floodwall Mockup

ALL WORK IS SUBJECT TO CHANGE



# BMCR | Floodwall Tie-in

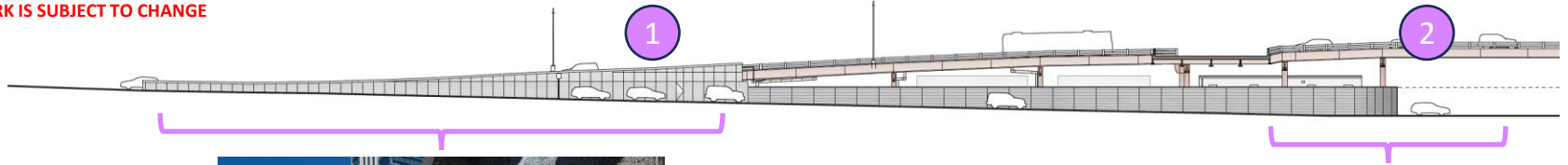
ALL WORK IS SUBJECT TO CHANGE



Google maps highlighting location of floodwall tie-in in red

# BMCR | Floodwall Tie-in

ALL WORK IS SUBJECT TO CHANGE



Rebar j-hooks for floodwall tie in on FDR off-ramp – March 2024



Rendering of floodwall tie-in and flip-up gate at South Street under Brooklyn Bridge  
From [2021 PDC Presentation](#):

# BMCR | Greenway Closure and Bike Detour

ALL WORK IS SUBJECT TO CHANGE



# BMCR | Resources

- Visit Us: <https://www.nyc.gov/bmcr>
- Community Construction Liaison:
  - Marsha Guido  
347-538-4266  
Email: [bmcr.ccl@gmail.com](mailto:bmcr.ccl@gmail.com)
- Tabling in the Community
- CB 3 Parks Meetings
- On-site signage
- Inquiry tool and email updates:

<https://www.nyc.gov/site/lmcr/progress/contact.page>



Tabling event - 2023



Advisories posted on-site

**NYC Lower Manhattan Coastal Resiliency** 311 Search all NYC.gov websites

**NYC Lower Manhattan Coastal Resiliency** Русский Select Language Text-Size

Background Progress Resources Get Involved Search

## Brooklyn Bridge-Montgomery Coastal Resilience

[Brooklyn Bridge-Montgomery Coastal Resilience](#)

**The Battery Coastal Resilience**

**Interim Flood Protection Measure (IFPM)**

**Battery Park City Resilience Projects**

**The Financial District and Seaport Climate Resilience Master Plan**

**Seaport Coastal Resilience**

f t i s Share Print

In the Two Bridges neighborhood, the Department of Design and Construction (DDC) will install a combination of flood walls and deployable flip-up barriers to protect the neighborhood from a 100-year storm surge in the 2050s, while also maintaining access and visibility to the waterfront. New York City Economic Development Corporation (NYCEDC) led the design for the project, which will extend along the waterfront from the Brooklyn Bridge to Montgomery Street. DDC completed design in fall of 2021 and DDC is now managing the construction of BMCR.

This project will reduce flooding risk – from both sea level rise and storm surge – for thousands of residents, while continuing to preserve views and access to the waterfront. These deployable barriers will be permanent infrastructure, hidden until they are flipped up in the event of a storm. The location of the flood walls and posts has been designed to minimize conflict with subsurface infrastructure and to maximize integration of public space amenities such as open-air seating, fitness equipment, and athletic courts.

**Explore the headings below for more information about BMCR and the status of construction:**

Learn more about the NYCEDC design phase: [NYCEDC LMCR](#)

The same waterfront that the community enjoys when weather is good...

...transforms into critical flood protection during major flooding events.

**Learn More about BMCR**

- About
- Construction Notices
- Presentations
- Newsletters
- Gallery
- Community Engagement
- Contact
- FAQs



**NYC** Lower Manhattan Coastal Resiliency 311 | Search at NYC.gov website

**NYC** Lower Manhattan Coastal Resiliency Русский Select Language | Text Size

Background Progress Resources Get Involved Search

## Brooklyn Bridge-Montgomery Coastal Resilience

[Brooklyn Bridge-Montgomery Coastal Resilience](#)

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**Interim Flood Protection Measure (IFPM)**

**Battery Park City Resilience Projects**

**The Financial District and Seaport Climate Resilience Master Plan**

**Seaport Coastal Resilience**

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**Brooklyn Bridge-Montgomery Coastal Resilience**


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Are you looking for more information?

Visit Us at:  
<https://www.nyc.gov/bmcr>

