

# WELCOME

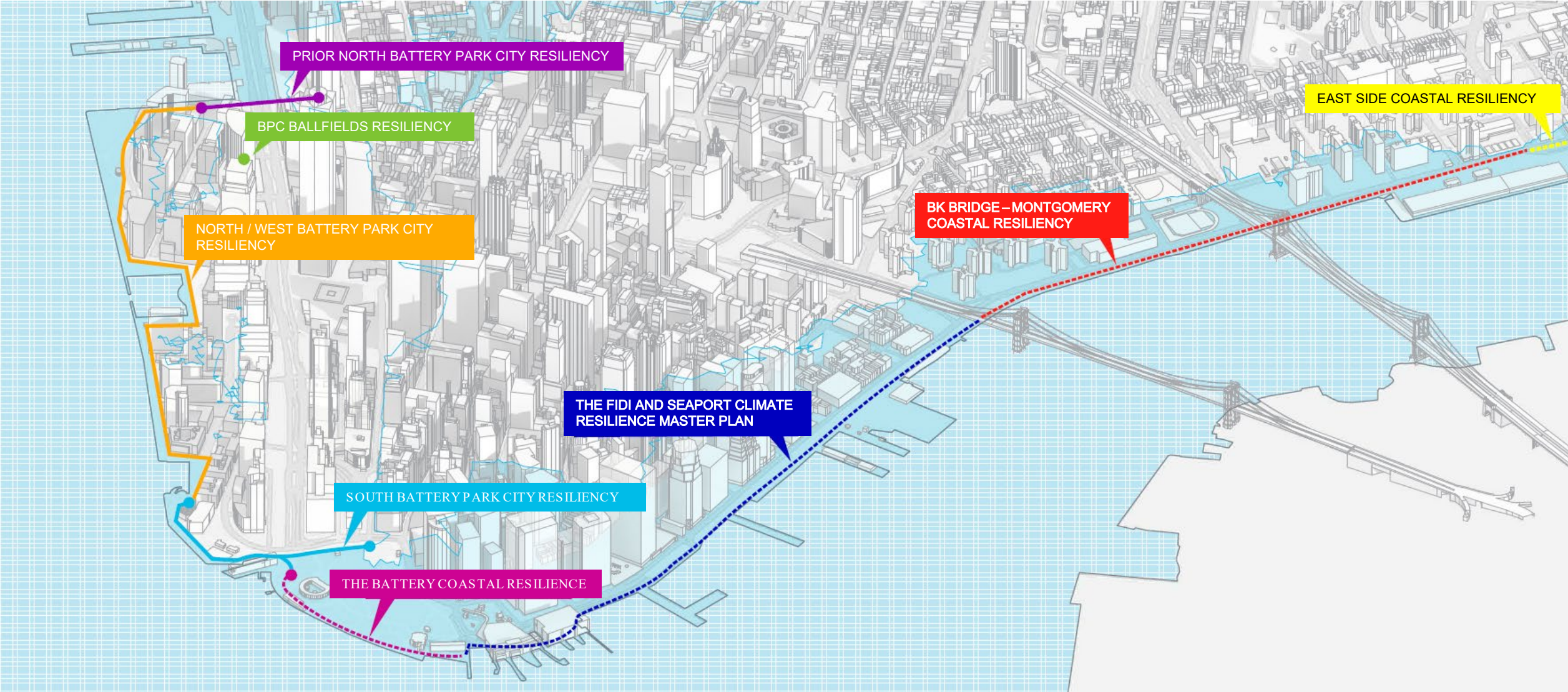
## NORTH / WEST BATTERY PARK CITY RESILIENCY PROJECT COMMUNITY MEETING #4

September 19, 2022

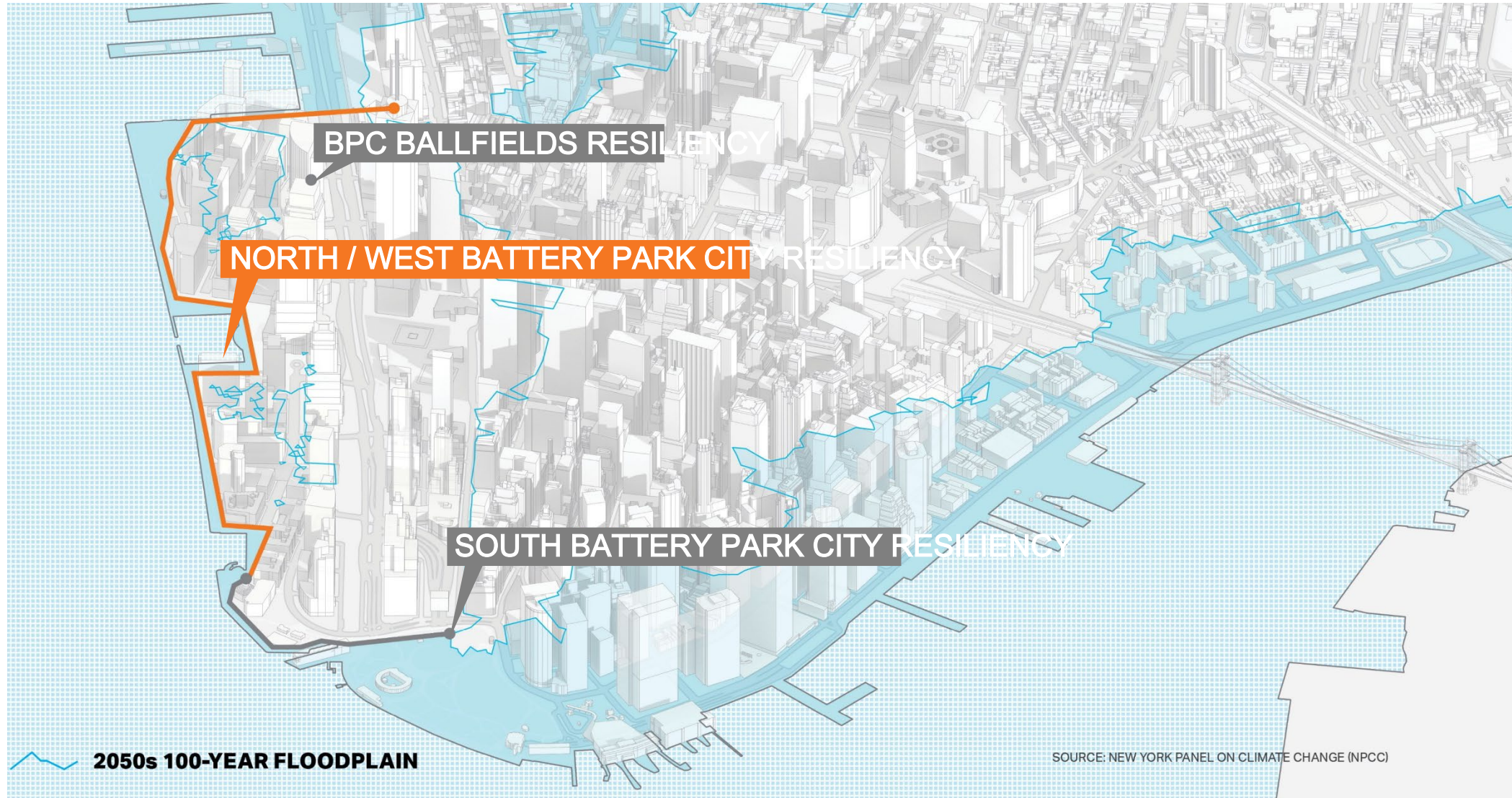
# AGENDA

- Introductions
- Project Overview
  - Location and Existing Conditions
  - Vision and Objectives
- Project Development Approach
  - Review Progressive Design Build Process
  - Introduce the BPCA Advisory Team
  - Stakeholder Engagement Throughout
- What We Heard (Public Input Findings)
- Conceptual Alignment Alternatives
- Questions / Discussion

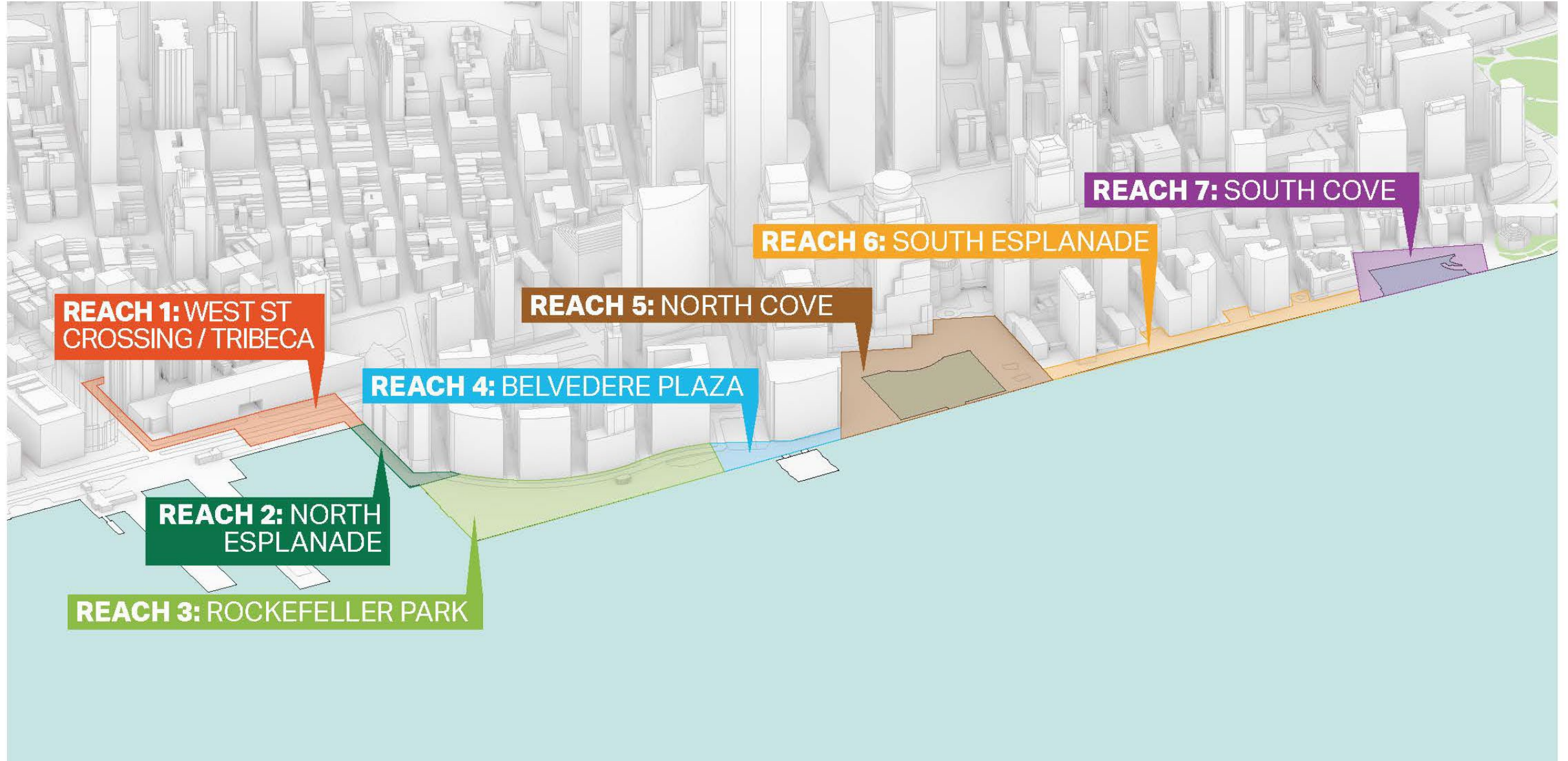
# LOWER MANHATTAN | RESILIENCY PROJECTS



# NORTH / WEST BPC RESILIENCY PROJECT



# EXISTING SITE CONDITIONS | SITE OVERVIEW



# PROJECT VISION

- Safety
- Resiliency and Environmental Stewardship
- Engagement and Collaboration
- Design Excellence
- Budget and Schedule Compliance
- Effective Project Management and Accountability
- Sustainable Design and Long-Term Operations & Maintenance

# KEY PROJECT OBJECTIVES | OVERARCHING PRINCIPLES

- **Mitigation Through Design**

- User centric design
- Integrated design to align resiliency and sustainability goals, programming, and enhanced user experience
- Retention and enhancement of urban spaces and programming
- Optimize usability of spaces in all seasons

- **Sustainable Battery Park City**

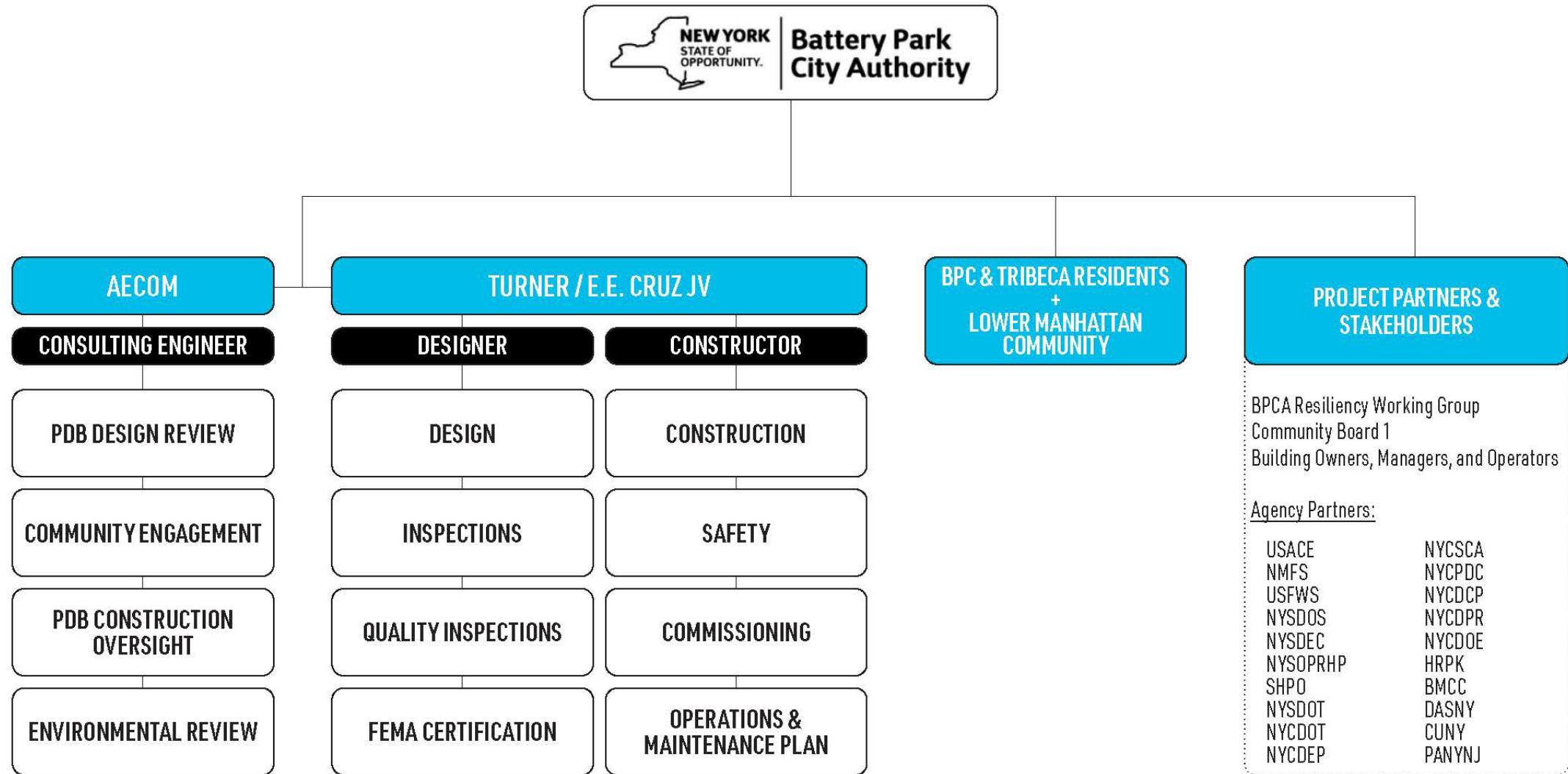
- Green infrastructure to address storm water flooding and urban heat island effects
- Integrated renewable energy opportunities (ex. outdoor lighting)
- Ecological restoration (aquatic & upland)

# PROJECT DEVELOPMENT APPROACH

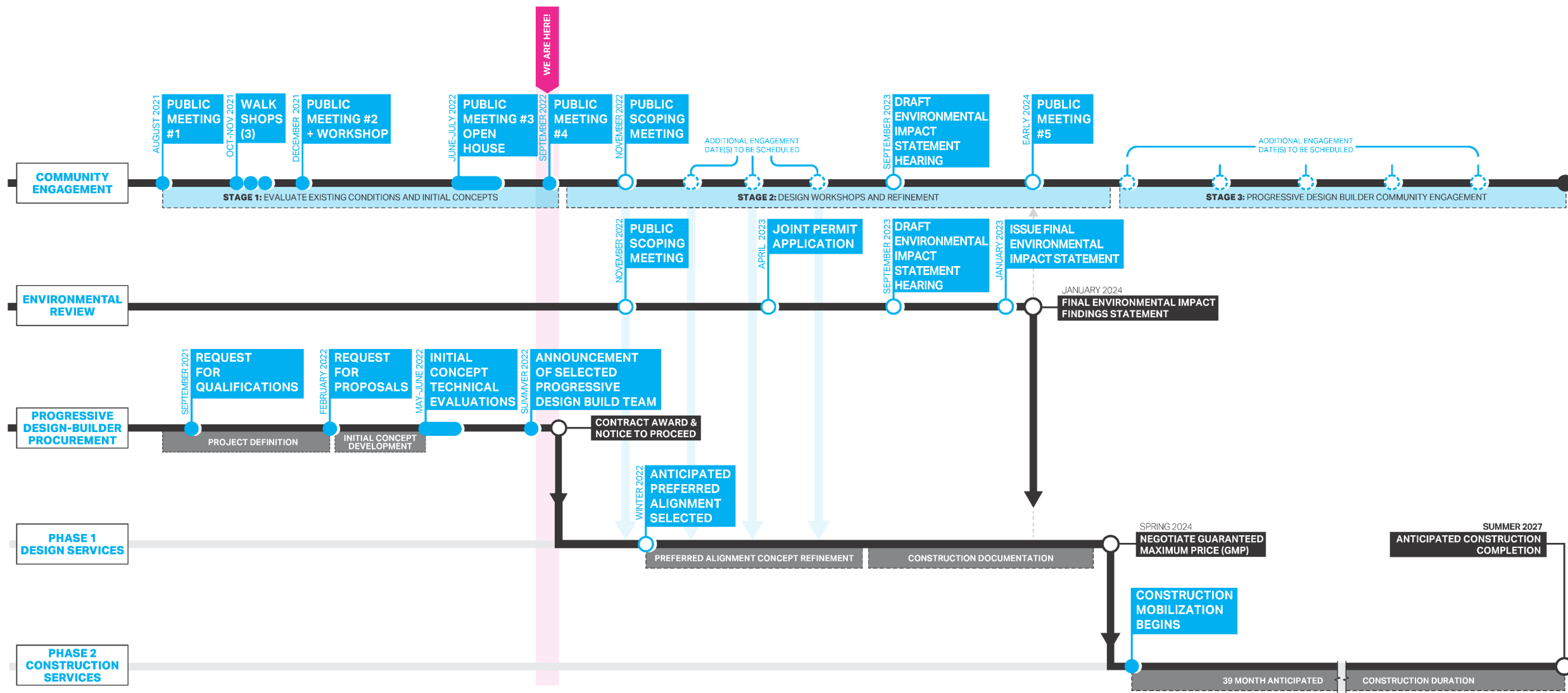
# PROGRESSIVE DESIGN BUILD | WHAT IS IT?

- Leverages BPCA's Design Build Authorization
- Combines delivery of the North and West Battery Park City Resiliency Projects
- Advantage of Progressive Design Build:
  - ✓ Risk Reduction
  - ✓ Design Flexibility
  - ✓ Potential for Cost Reduction
  - ✓ Potential Overall Time Savings

# BPCA ADVISORY TEAM



# PROJECT TIMELINE



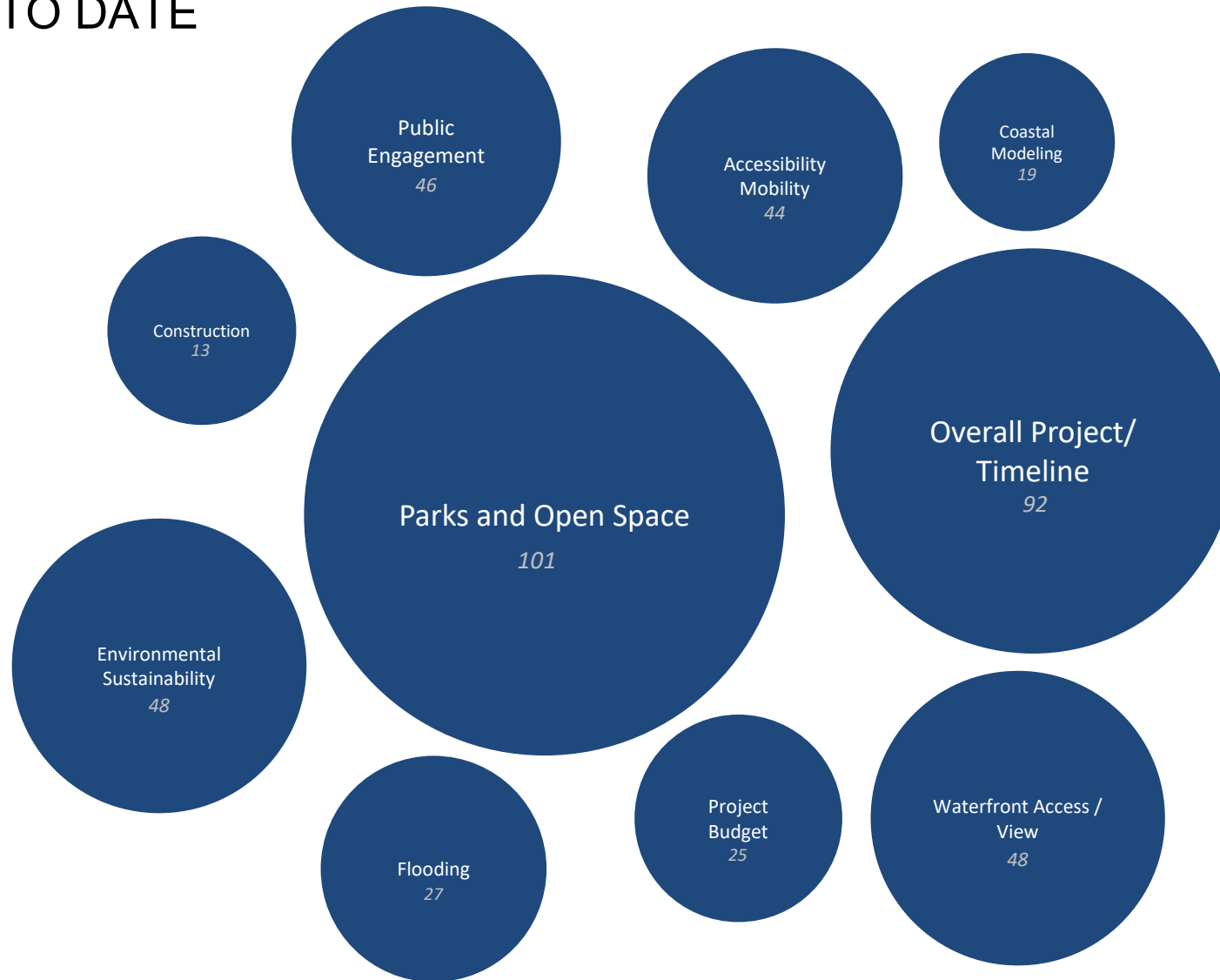
# COMMUNITY ENGAGEMENT | EVENTS THUS FAR

- Tonight is Community Meeting #4; it is the seventh community engagement milestone for the North/West Resiliency Project
  - August 2021: Community Meeting #1
  - October/November 2021: Three WalkShops
  - December 2021: Community Meeting #2
  - June 2022: Community Meeting (Open House) #3
  - September 2022 : Community Meeting #4

Over 500+ comments received from the community throughout the project

# COMMUNITY ENGAGEMENT | COMMENTS RECEIVED

## FEEDBACK TO DATE



# WHAT WE HEARD AT THE OPEN HOUSE | JUNE 2022

- 250 comments were submitted in -person or virtually
- Commenters expressed desire for the following:
  - Minimize impact to Rockefeller Park
  - Maintain and improve waterfront views and access
  - Avoid moving the Ferry Terminal north
  - Preserve public art within South Cove
  - Add ecological and natural elements in South Cove

# CONCEPTUAL ALIGNMENT ALTERNATIVES

**REACH 1**

WEST STREET CROSSING / TRIBECA

# 1A: North Moore Street Alignment



## 1B: Chambers Street Alignment

STUYVESANT HIGH SCHOOL

PIER 25  
MARINA

PARK

ROUTE 9A / WEST ST.

HARRISON ST

TRIBECA BRIDGE

BOROUGH OF MANHATTAN  
COMMUNITY COLLEGE

WASHINGTON MARKET  
PARK TENNIS COURT

WASHINGTON MARKET  
PARK

POTENTIAL EXTENSION OF ALIGNMENT

GREENWICH ST.

CHAMBER ST.

## Considerations



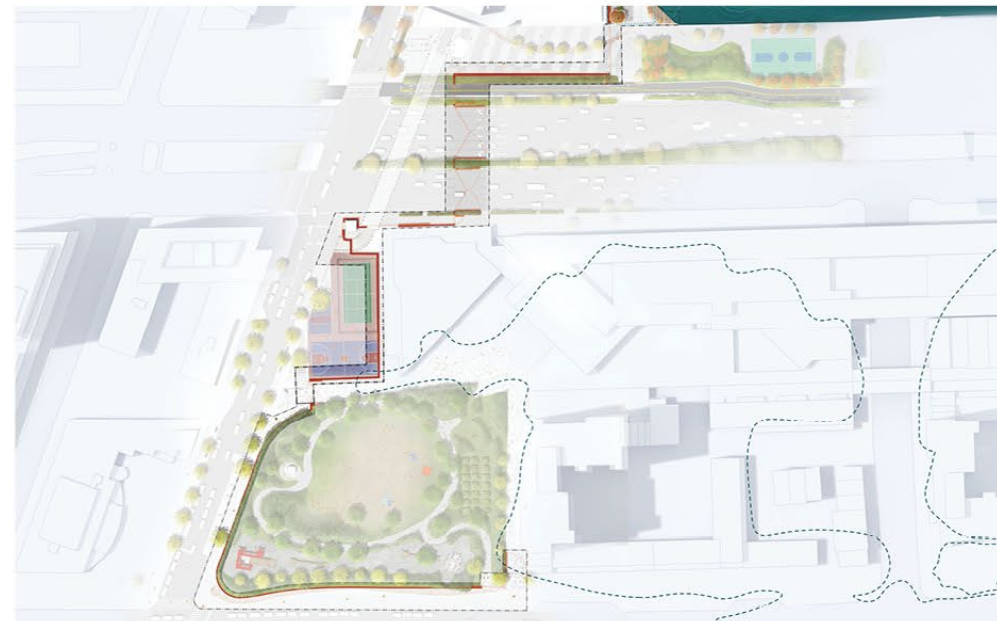
**REACH 1A: NORTH MOORE STREET**

**ADVANTAGES:**

- Greater area of protection
- Potential for fewer agency regulatory reviews

**DISADVANTAGES:**

- More urban design impacts
- More deployable elements
- Higher operations and maintenance costs



**REACH 1B: CHAMBERS STREET**

**ADVANTAGES:**

- More passive elements
- Reduced urban design impacts
- Reduced operations and maintenance costs

**DISADVANTAGES:**

- Additional agency regulatory review
- Urban design impacts adjacent to Stuyvesant High School
- Potential impacts to Washington Market Park
- Potential access limitations to Tribeca Bridge during construction

# REACH 2

## NORTH ESPLANADE

## 2A: Platform Reconstruction



## 2B: Platform Reconstruction & Expansion



## Considerations



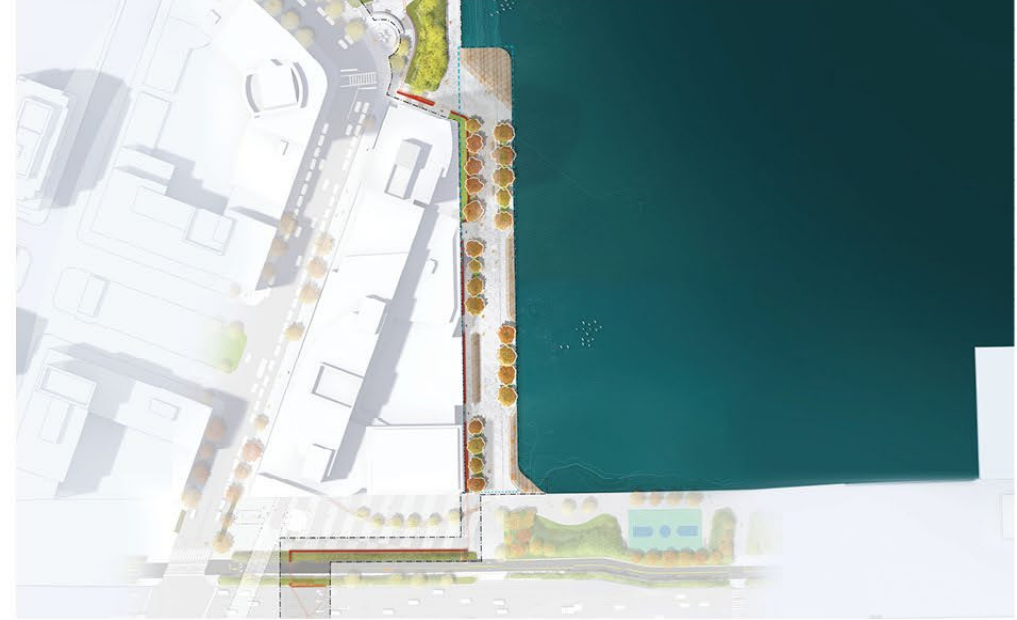
### REACH 2A: PLATFORM RECONSTRUCTION

#### ADVANTAGES:

- Reduced permitting schedule
- Less inter-agency coordination
- Opportunities for step down seating at water's edge

#### DISADVANTAGES:

- Maintains narrow shared pathway
- Less space for pedestrian circulation
- Less tree canopy



### REACH 2B: PLATFORM RECONSTRUCTION & EXPANSION

#### ADVANTAGES:

- Widened shared pathway
- More space for pedestrian circulation
- More planting opportunities
- Opportunities for get-downs to the water

#### DISADVANTAGES:

- Increased permitting schedule
- More inter-agency coordination

# REACH 3

## ROCKEFELLER PARK

## 3A: Minimal Park Impact



## 3B: Park Elevation & Protection



## Considerations



**REACH 3A: MINIMAL PARK IMPACT**

**ADVANTAGES:**

- Minimal disruption to existing park - continuous park access during construction
- Maintains views to water from street and upland paths
- Potential opportunity for a get-down to the water at North Esplanade

**DISADVANTAGES:**

- Park will flood during major storms
- Park may be out of service for extended periods for restoration after major storms
- Some trees along River Terrace would need to be replaced
- Requires some use of deployable elements
- Potential need for adaptable measures at an earlier point in time.



**REACH 3B: PARK ELEVATION & PROTECTION**

**ADVANTAGES:**

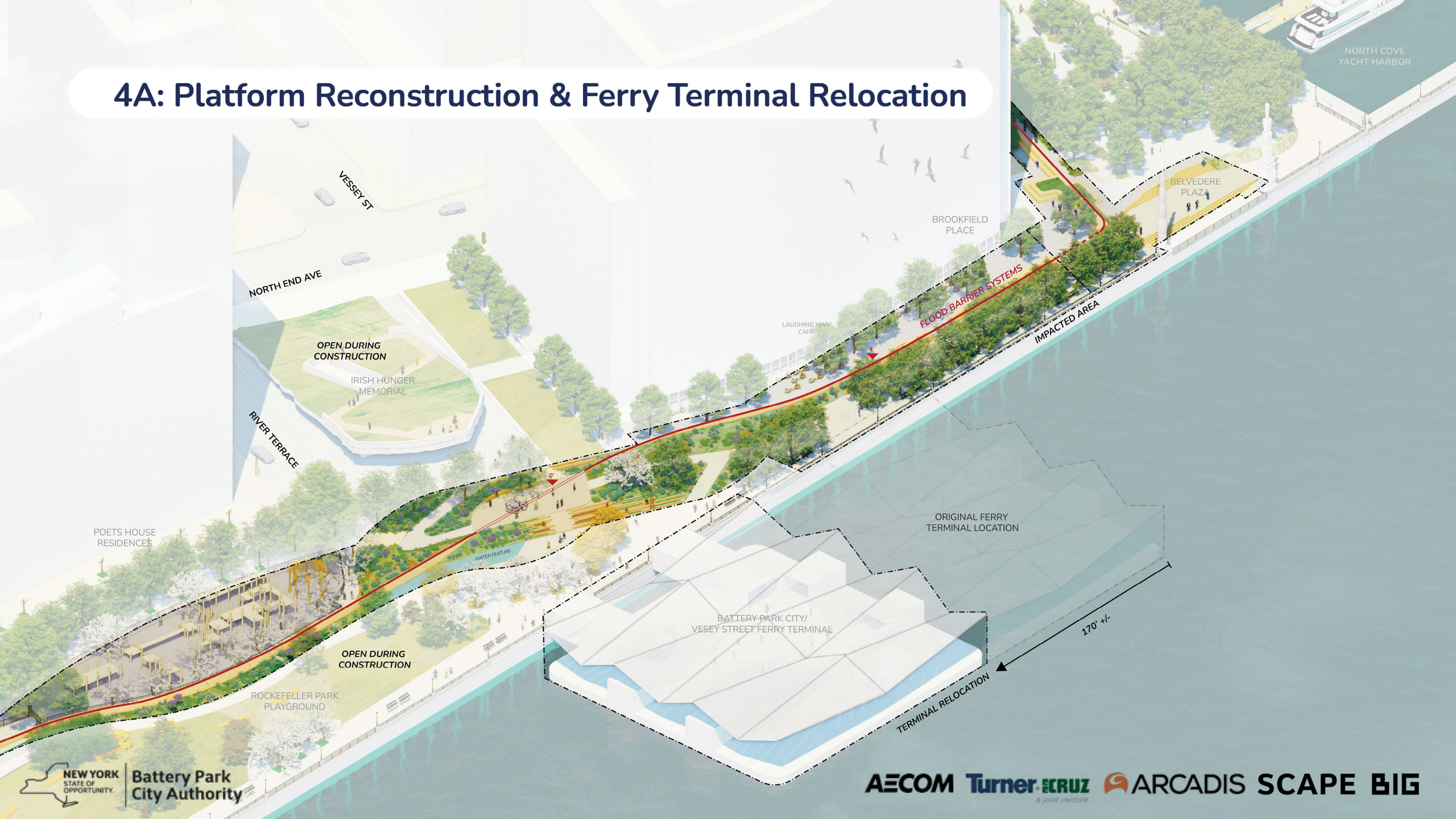
- Reduced risk to park during storms
- Opportunity for new spaces and programming
- More passive elements

**DISADVANTAGES:**

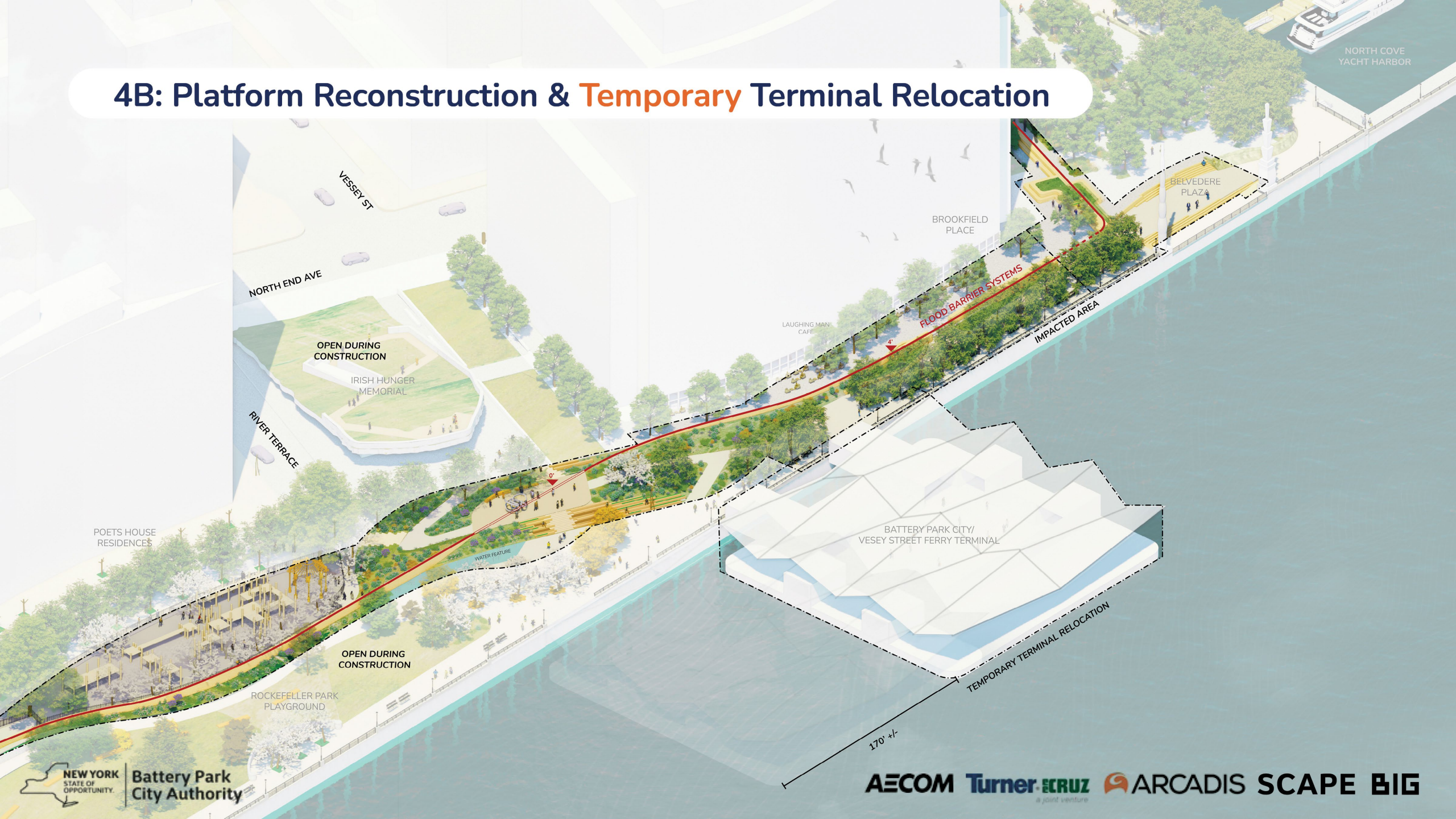
- All trees outside esplanade area to be replaced
- Limited views of water from street and upland paths
- Higher cost of construction
- Limited or no access to park during construction
- Less continuous lawn space

# REACH 4 BELVEDERE PLAZA

## 4A: Platform Reconstruction & Ferry Terminal Relocation



## 4B: Platform Reconstruction & Temporary Terminal Relocation



## Considerations



**REACH 4A: PLATFORM RECONSTRUCTION & FERRY TERMINAL RELOCATION**

**ADVANTAGES:**

- Playground elevated and protected
- Views of Statue of Liberty restored from top of Irish Hunger Memorial
- More space for ferry access and queueing

**DISADVANTAGES:**

- Moves ferry terminal closer to residential buildings and playground



**REACH 4B: PLATFORM RECONSTRUCTION & TEMPORARY FERRY TERMINAL RELOCATION**

**ADVANTAGES:**

- Playground elevated and protected
- Ferry access would remain away from residential buildings and play area

**DISADVANTAGES:**

- Higher construction cost and longer construction period
- Ferry terminal would be temporarily relocated during construction and then moved back into current location
- Constrained area for ferry passenger queue

# REACH 5

## NORTH COVE

## 5A: Upland Plaza



## 5B: Barge Gate



## 5B: View Analysis



## 5B: View Analysis



## Considerations



**REACH 5A: UPLAND PLAZA**

### **ADVANTAGES:**

- Reduced flood barrier height
- Maintains most sightlines to Hudson River
- Opportunity for new resilient hard and softscape design
- Redesign of plaza spaces to improve accessibility and programming
- Opportunity for improved access to the water and universal access

### **DISADVANTAGES:**

- More disruption to North Cove Marina and Esplanade Plaza during construction
- Some areas of the plaza may still flood during major storm events



**REACH 5B: BARGE GATE**

### **ADVANTAGES:**

- Reduced disruption to North Cove Marina and Esplanade Plaza during construction
- Minimal changes to plaza design

### **DISADVANTAGES:**

- Increased flood barrier height
- Significant impact on sightlines to Hudson River
- Minimal opportunity for plaza upgrades
- Higher cost and complexity in operations and maintenance
- More complex and higher construction cost

# REACH 6

## SOUTH ESPLANADE

## 6A: Privacy Wall Alignment



## 6B: Platform Reconstruction & Elevation (West of Privacy Wall)



## Considerations



**REACH 6A: PRIVACY WALL**

**ADVANTAGES:**

- Maximizes preservation of existing mature tree canopy
- Opportunity for new hard and softscape (upper promenade)
- More waterfront access through construction
- Lower construction cost

**DISADVANTAGES:**

- Potentially increased technical complexity
- Adjacent to residential structures
- Lower-level view impacts



**REACH 6B: PLATFORM RECONSTRUCTION & ELEVATION (WEST OF PRIVACY WALL)**

**ADVANTAGES:**

- Opportunity to raise platform for more resiliency
- Potential for more engagement with water's edge

**DISADVANTAGES:**

- Loss of existing mature tree canopy
- Disruption to waterfront access during construction
- Longer construction duration
- More agency coordination
- Higher construction cost
- Lower-level view impacts

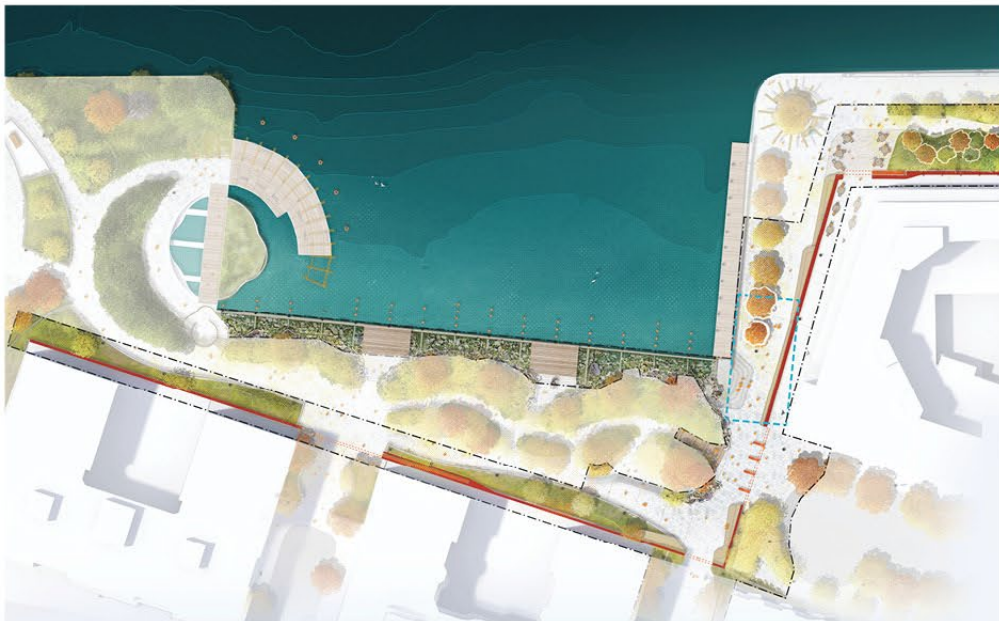
# REACH 7

## SOUTH COVE

## 7: Privacy Wall Alignment



## Considerations



### REACH 7: PRIVACY WALL

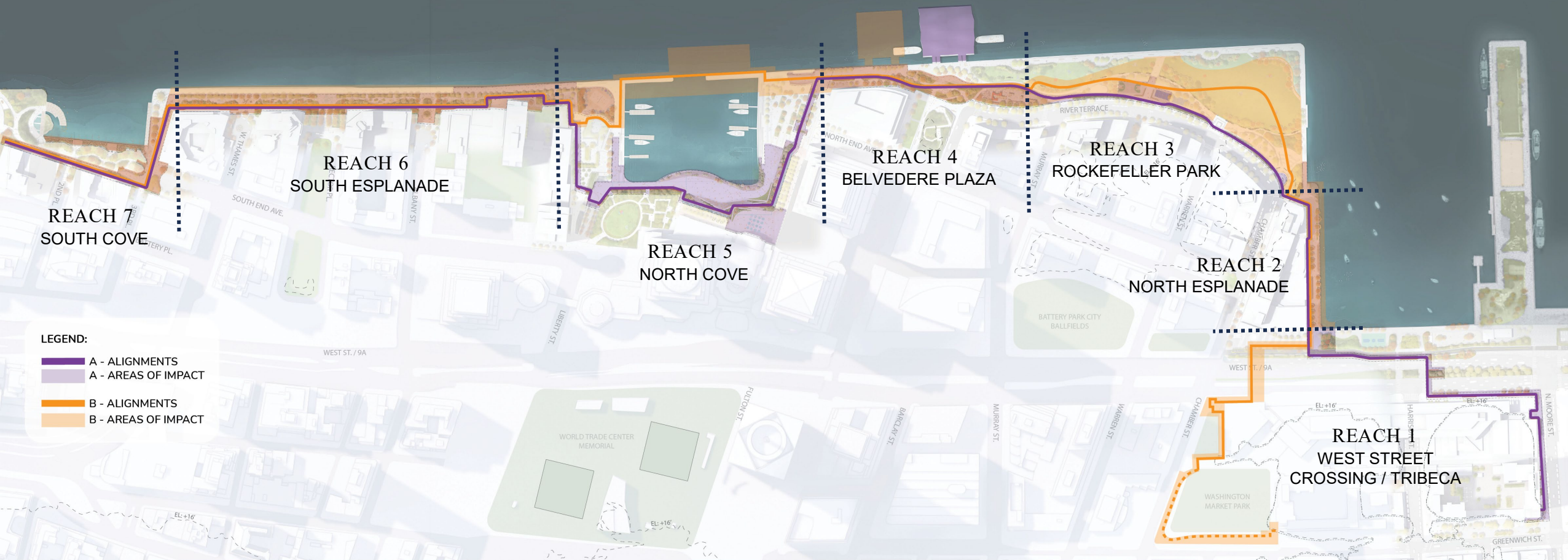
#### ADVANTAGES:

- Forest walk area is largely preserved
- Opportunity to create intertidal habitat on lower-level platform
- Maintain intent of original artist and designer with strong connection to water

#### DISADVANTAGES:

- With sea level rise, lower areas will be regularly inundated
- Construction in proximity to existing buildings
- View impacts at Regatta ground level spaces

# FBS Alignments



# Q & A