

# SEAPORT



## Coastal Resilience

**Design Update:**  
**Community Workshop #2**  
December 16<sup>th</sup>, 2024

# Project Schedule



## Data Collection & Design (Winter)

- Existing Drawing Collection
- Surveys (Topographic, Geotechnical, Utility, Bathymetric, Hydraulic)
- Site Inventory and Analysis
- Preliminary Alignment Feasibility Studies
- Coordination with Agencies
- Begin Public Art Process
- Begin Schematic/Pre-Conceptual Design

# Agenda

- 01** Context & Background
- 02** Design Process
- 03** The Flood Alignment
- 04** Pre-Design Framework

**01**



# **Context & Background**



# Project Location



CITY 1 MI



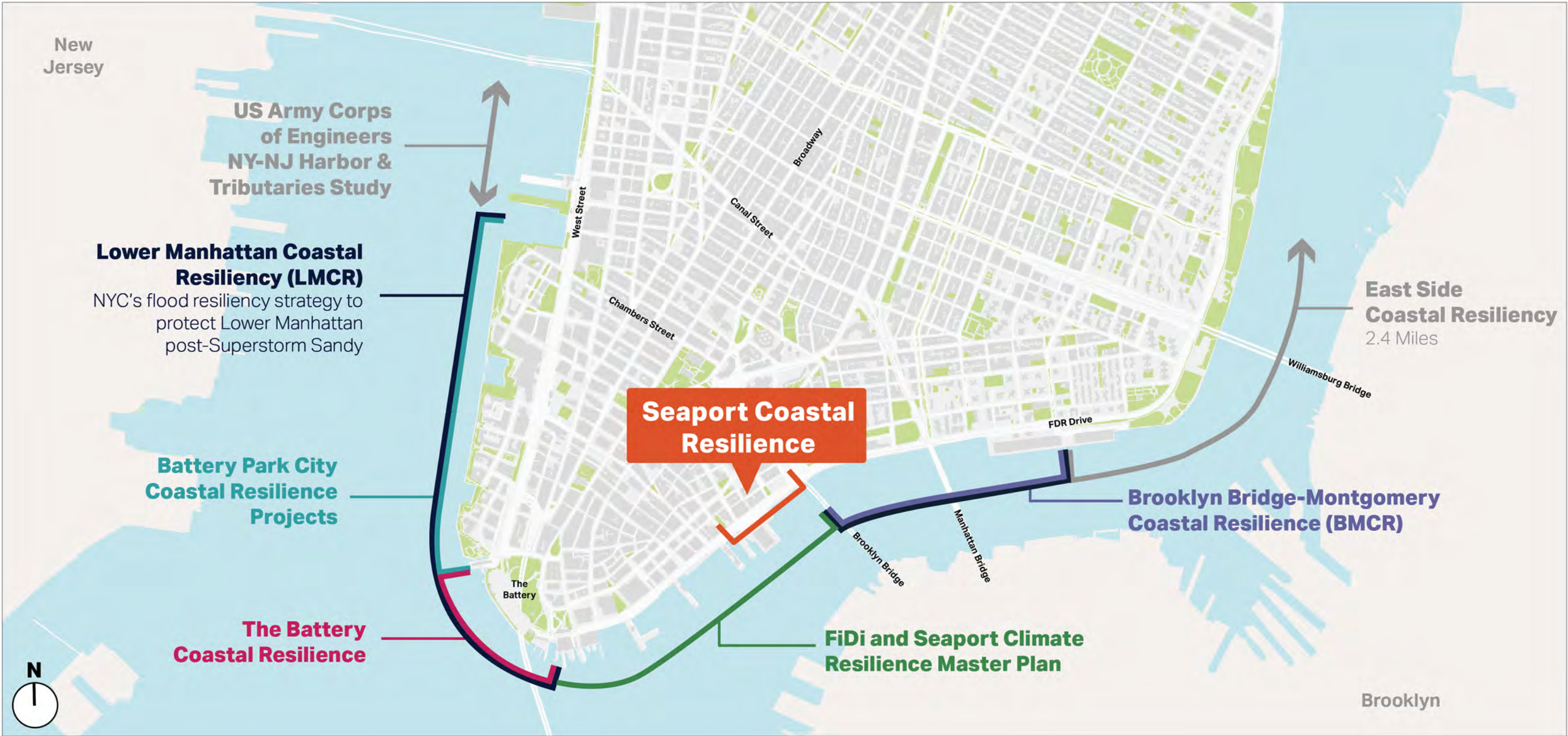
NEIGHBORHOOD 1000 FT



SITE 500 FT

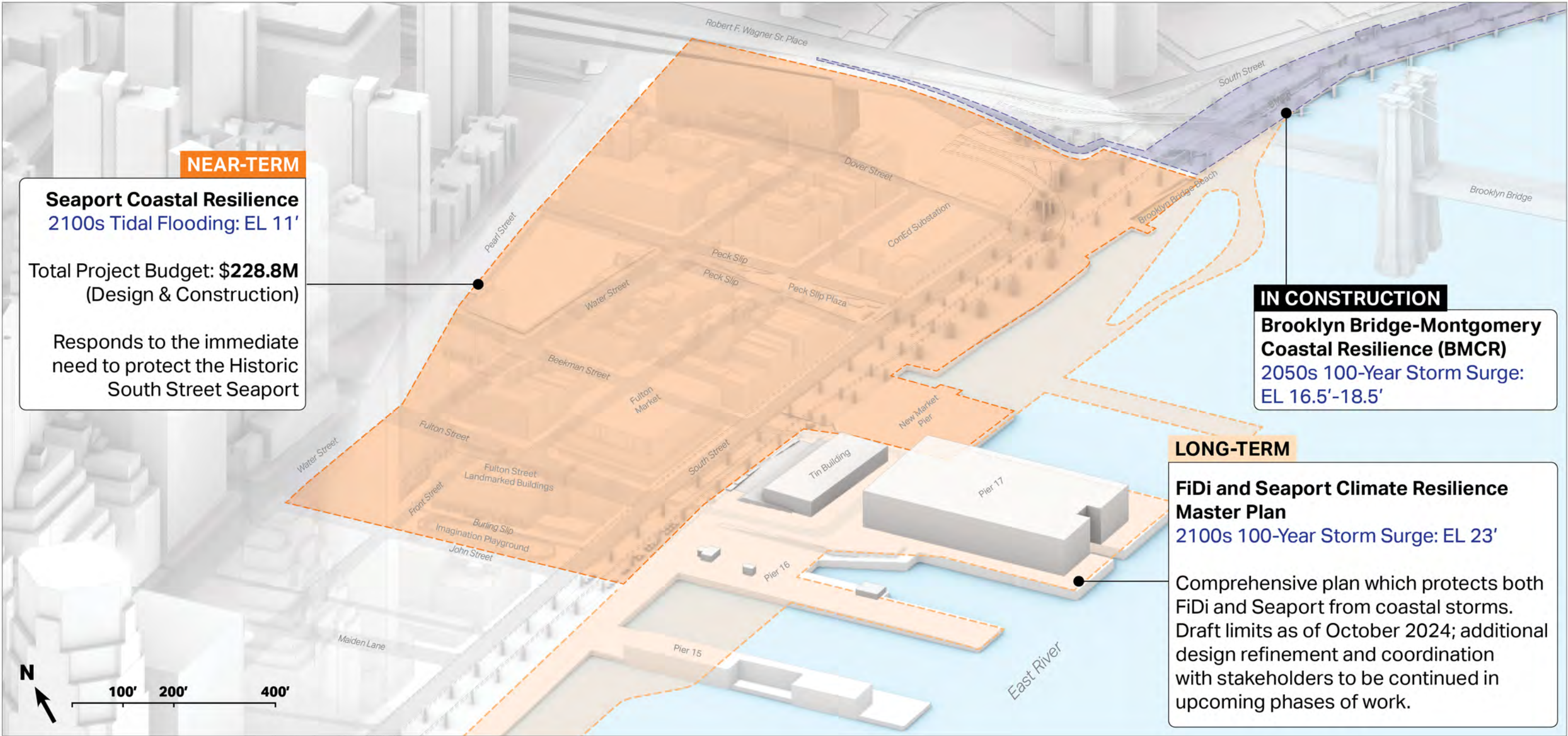


# Lower Manhattan Coastal Resiliency (LMCR)





# What is Seaport Coastal Resilience?



**NEAR-TERM**

**Seaport Coastal Resilience**  
 2100s Tidal Flooding: EL 11'

Total Project Budget: **\$228.8M**  
 (Design & Construction)

Responds to the immediate need to protect the Historic South Street Seaport

**IN CONSTRUCTION**

**Brooklyn Bridge-Montgomery Coastal Resilience (BMCR)**  
 2050s 100-Year Storm Surge: EL 16.5'-18.5'

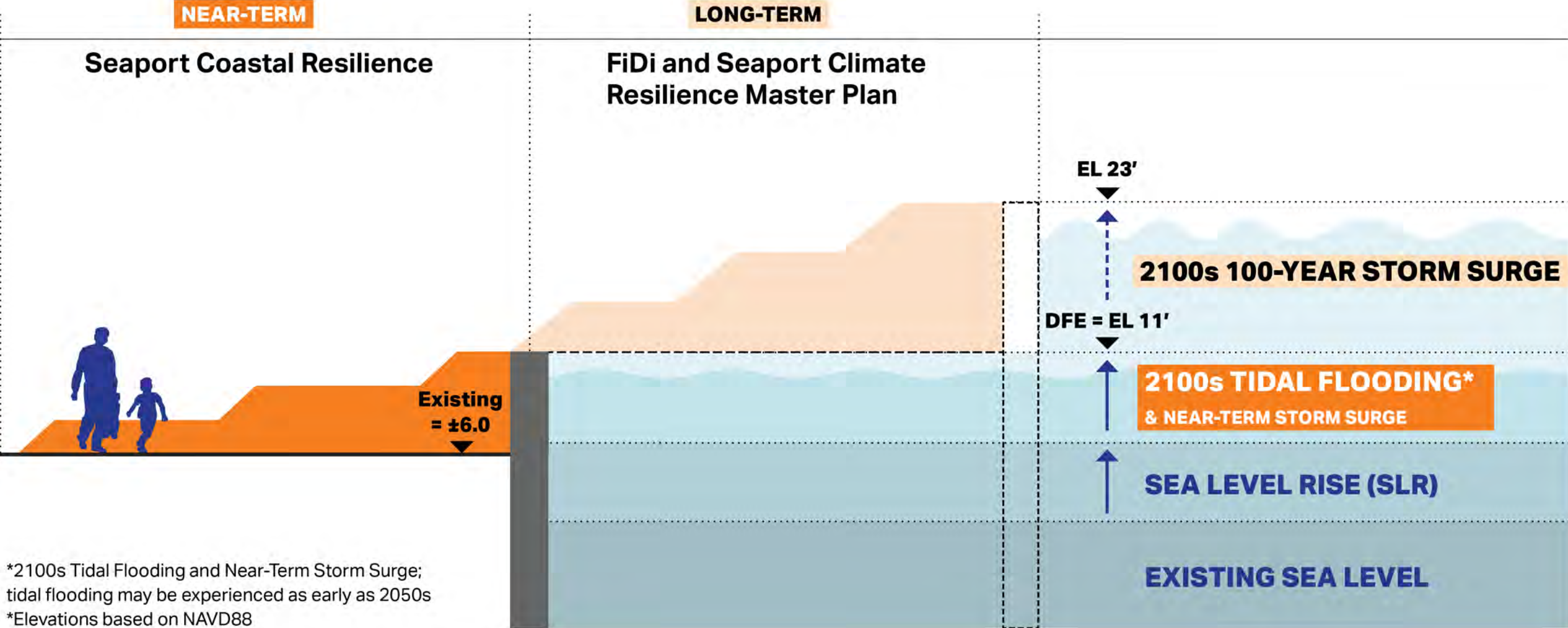
**LONG-TERM**

**FiDi and Seaport Climate Resilience Master Plan**  
 2100s 100-Year Storm Surge: EL 23'

Comprehensive plan which protects both FiDi and Seaport from coastal storms. Draft limits as of October 2024; additional design refinement and coordination with stakeholders to be continued in upcoming phases of work.



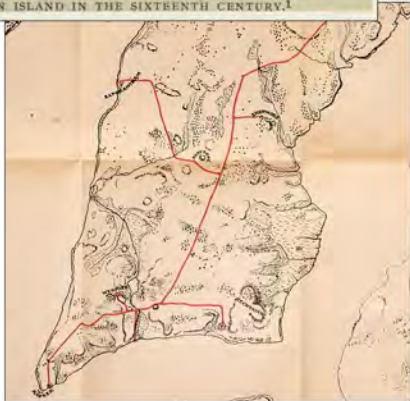
# Design Flood Elevation (DFE)



\*2100s Tidal Flooding and Near-Term Storm Surge; tidal flooding may be experienced as early as 2050s  
 \*Elevations based on NAVD88



# Why is Seaport being protected? | A historic district



**1600** .....  
 NYC pre-settlement

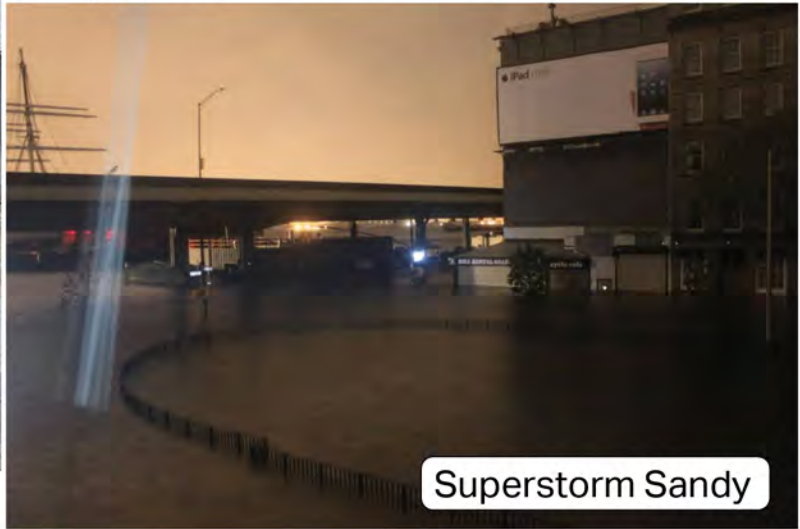
**1624** .....  
 South Street Seaport District establishment

**1795-1900** .....  
 History of shipbuilding, shipping, and commerce

**1967-TODAY** .....>  
 Continued neighborhood evolution

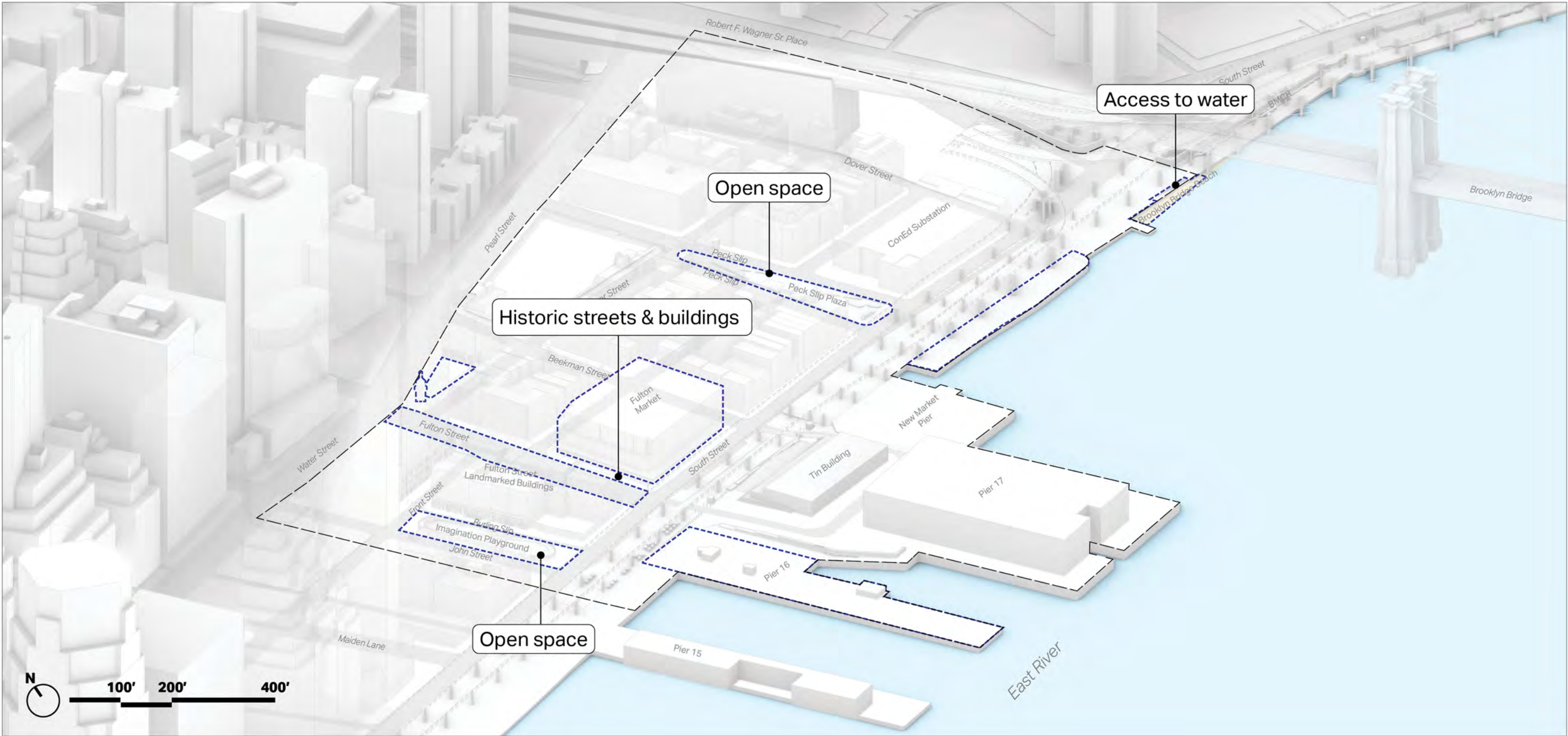


# Why is Seaport being protected? | A historic district





# Why is Seaport being protected? | A district of diverse character





# Why is Seaport being protected? | A district of diverse character



South Street Seaport's Waterfront



South Street Seaport's Historic Streets



# Key Areas | Historic Streets





# Key Areas | Historic Streets - Site Material & Identity

## Pavement



Granite Pavers

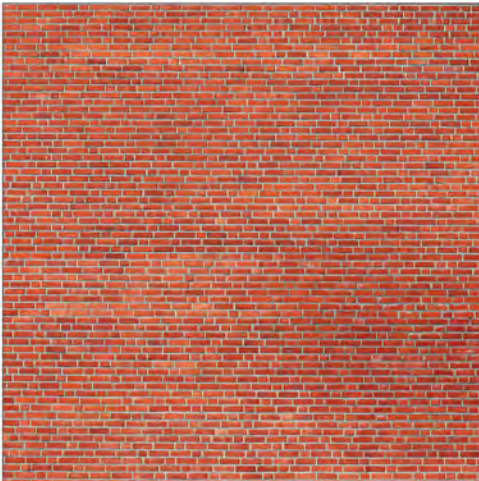


Bluestone Pavers



Concrete

## Building Facade



Red Brick Facade

## Details & History



Black Diamond Steel



Stone



Cast Iron Details



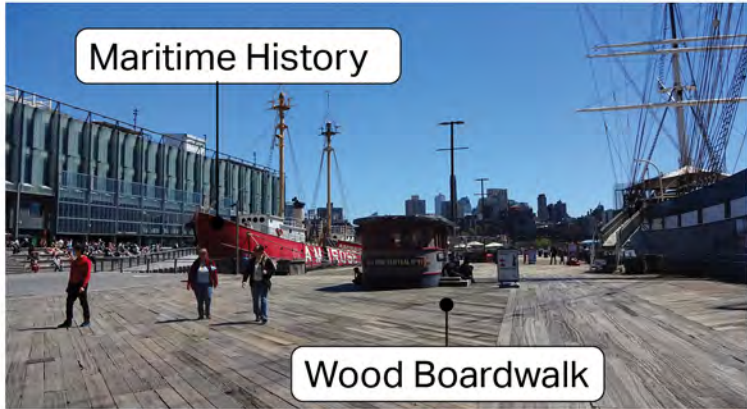
Historical Markers



Anchors of the Seaport Artifacts



# Key Areas | Waterfront





# Key Areas | Waterfront - Site Material & Identity

## Pavement



Wood Boardwalk



Hexagonal Pavers



Square Pavers

## Infrastructure



FDR Drive Underpass

## Details & History



Maritime



Wooden Pier Pillars



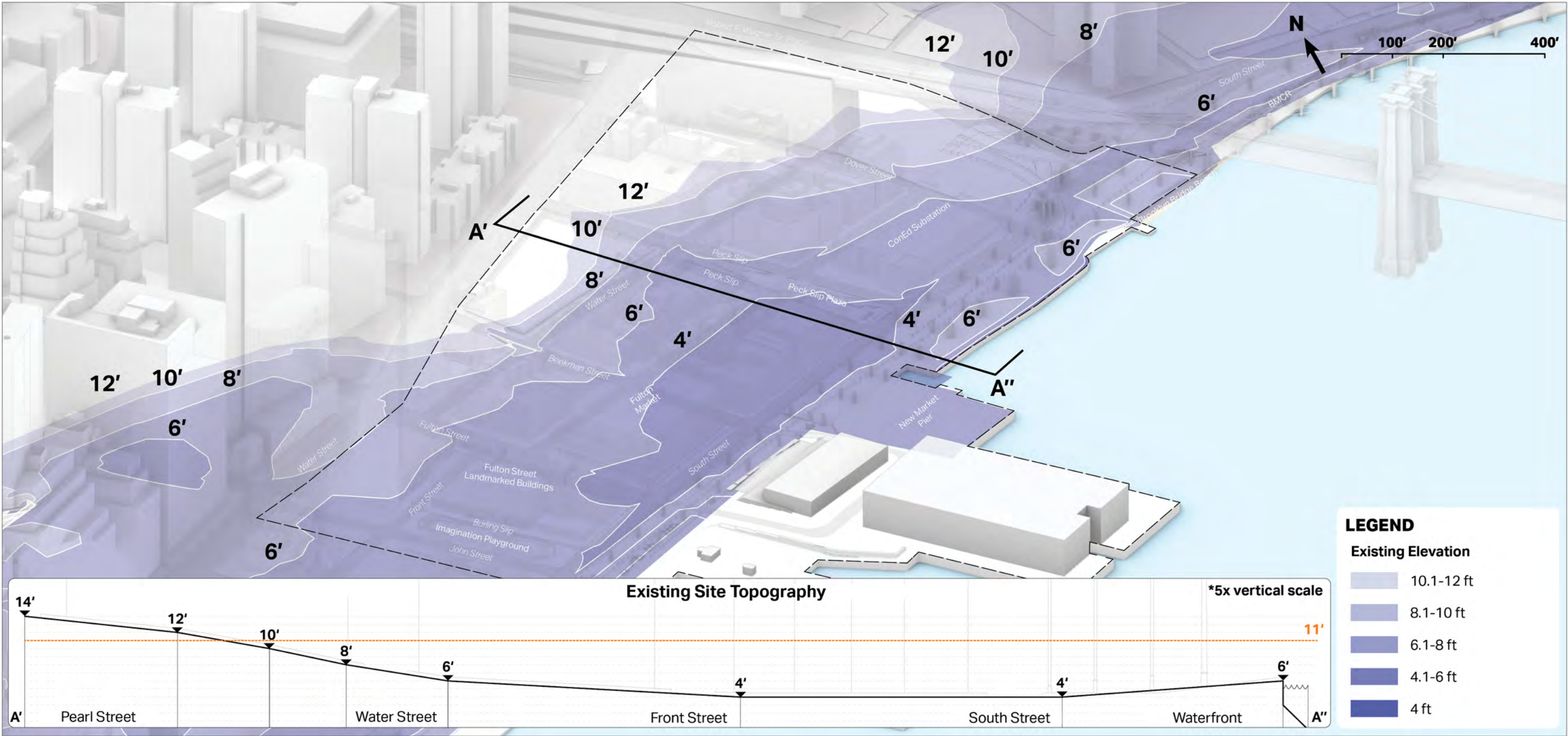
Historical Markers



Boulders



# Site Topography



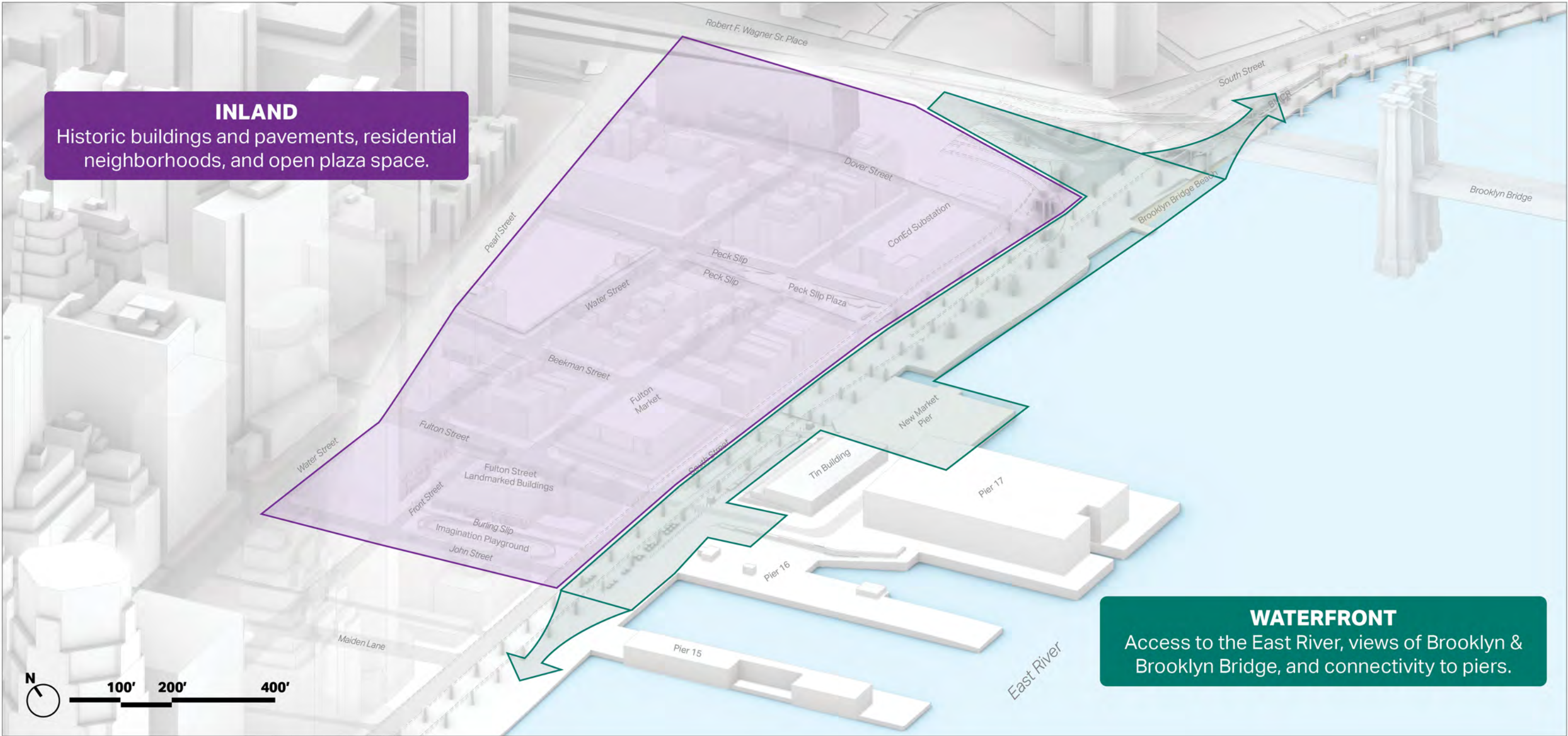
**02**



**Design Process**



# Two Project Zones



**INLAND**  
 Historic buildings and pavements, residential neighborhoods, and open plaza space.

**WATERFRONT**  
 Access to the East River, views of Brooklyn & Brooklyn Bridge, and connectivity to piers.

# Design Objectives



**CONNECT**  
neighborhood &  
waterfront



**PROTECT**  
maximum land  
area



**INTEGRATE**  
infrastructure  
with placemaking



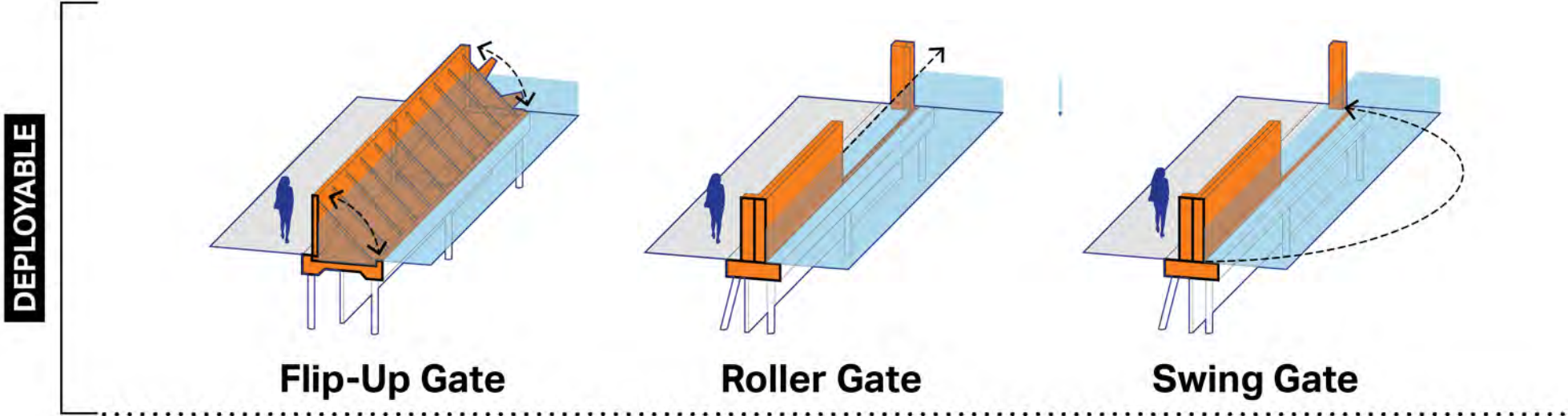
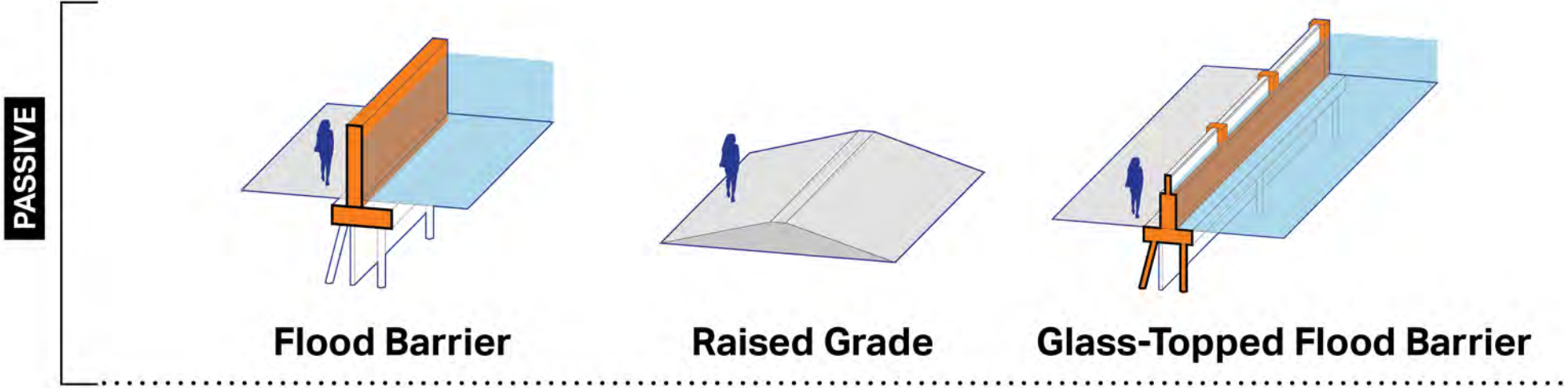
**ENHANCE**  
public realm  
experience



**CELEBRATE**  
the historic  
character

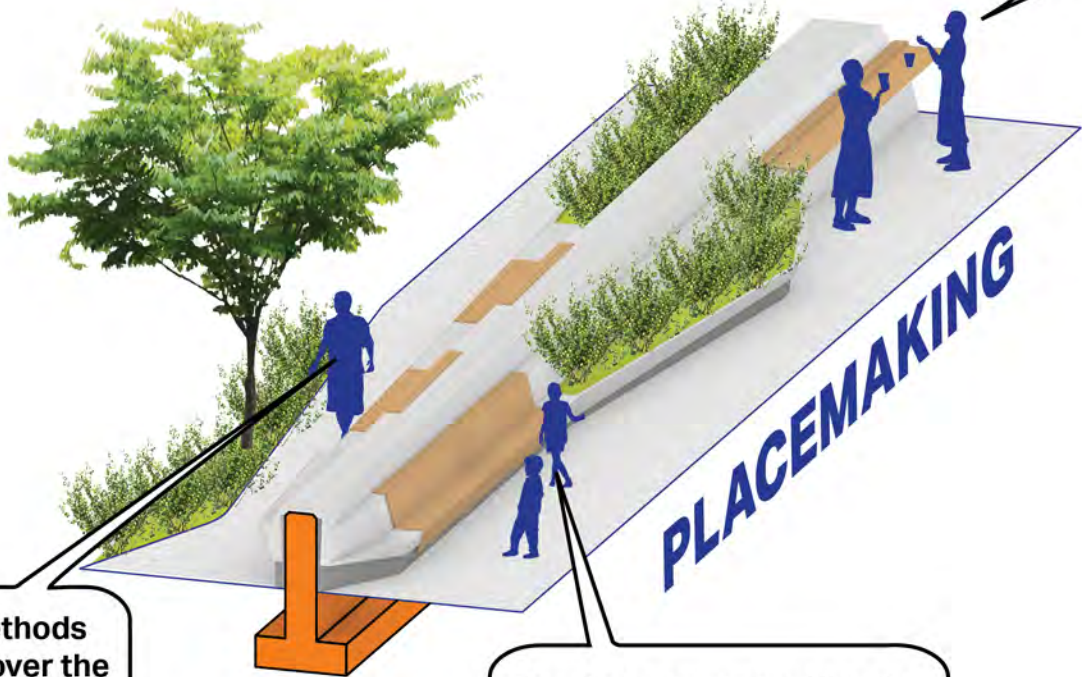
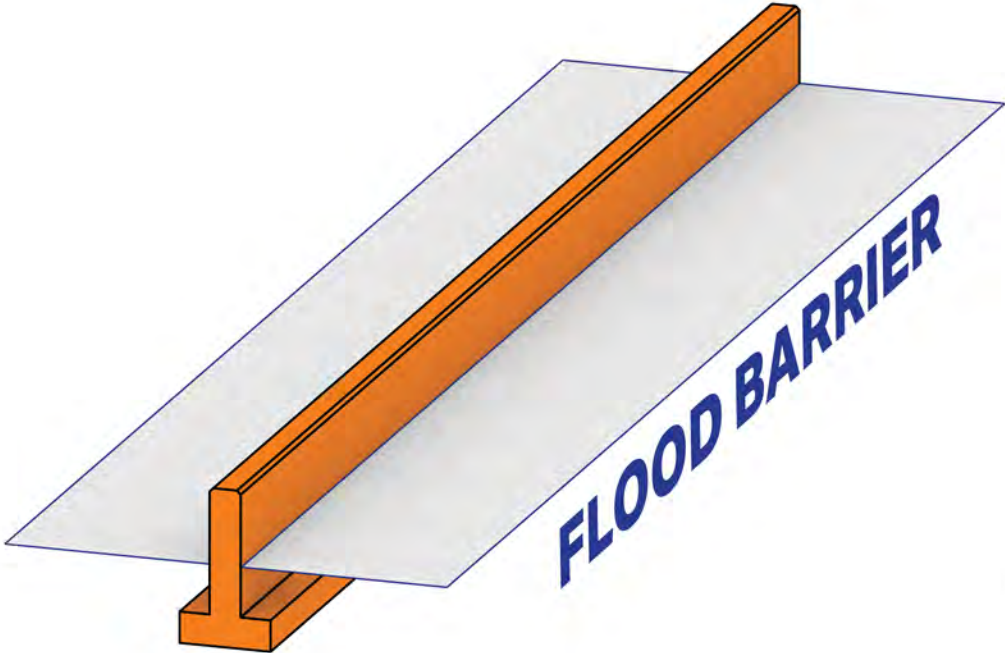


# Flood Alignment Toolkit





# Design Approach



What are the methods for going up and over the flood barrier?

Are there opportunities for something play-oriented?

What are the different ways that planting can be introduced?

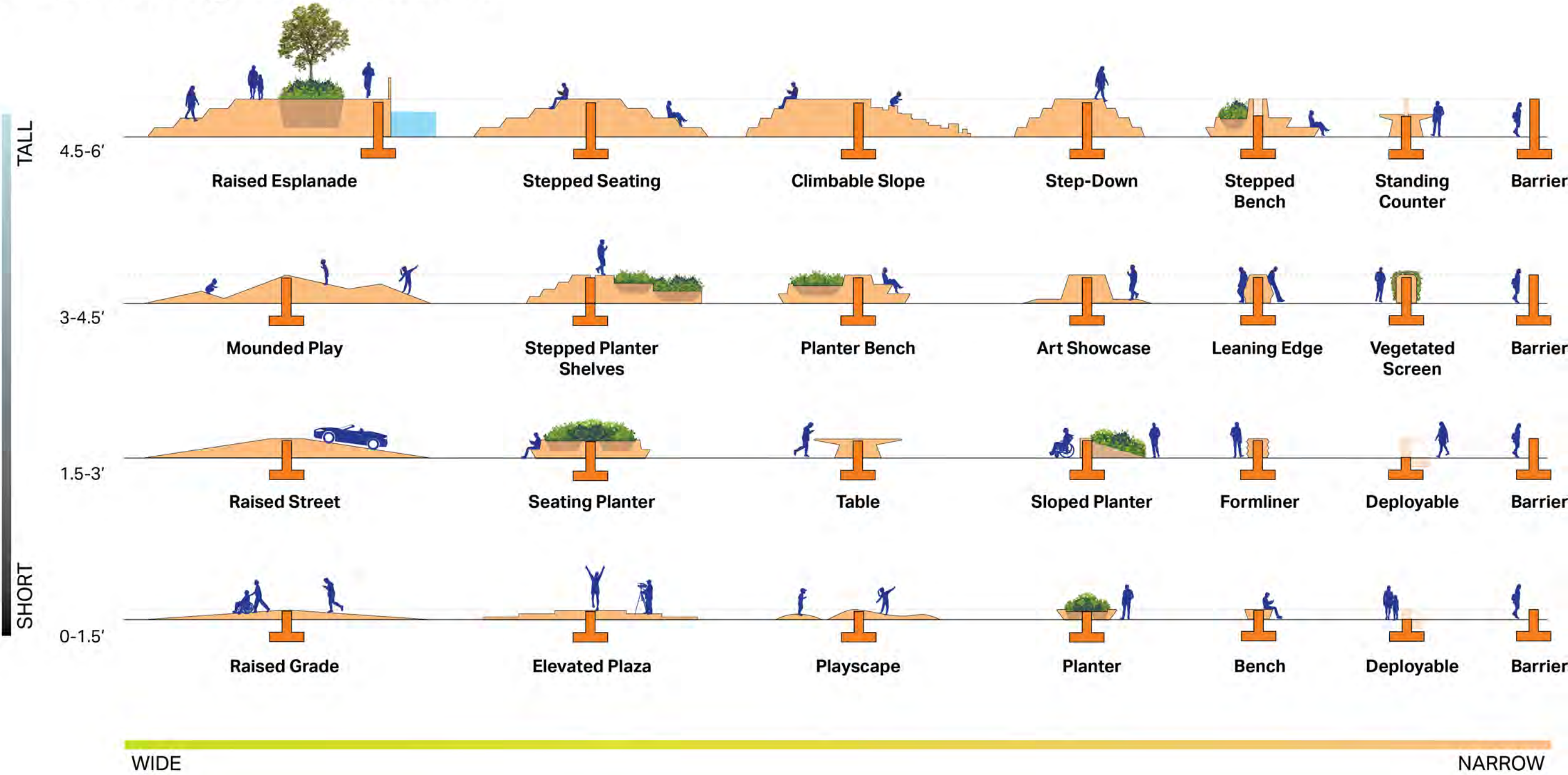


# What did we hear last time?





# Placemaking Design Toolkit





**03**



## **The Flood Alignment**



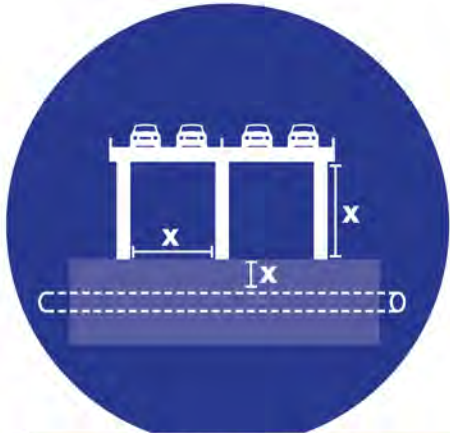
# Key Considerations



**MAXIMIZING  
protected area**



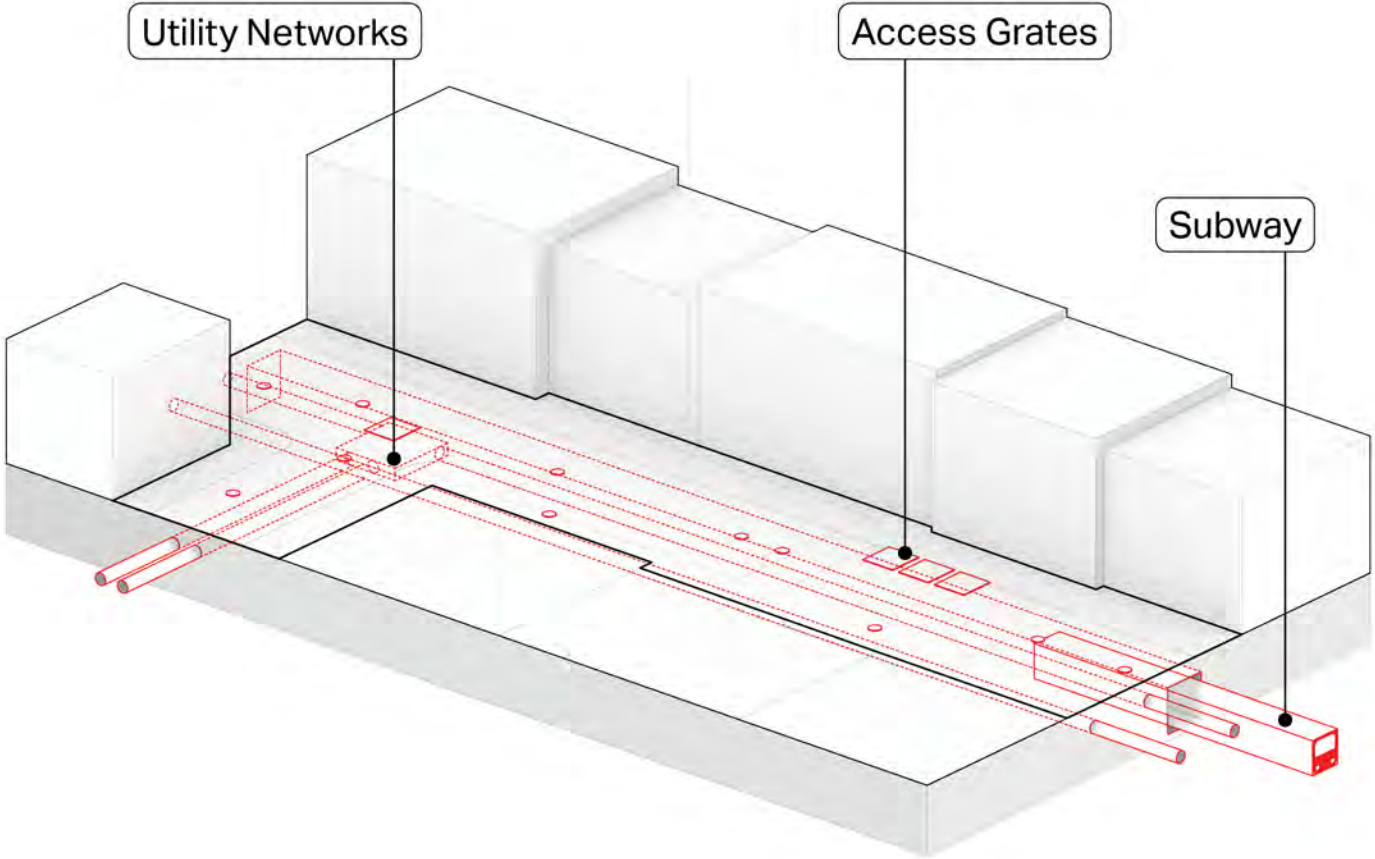
**ENHANCING  
universal access**



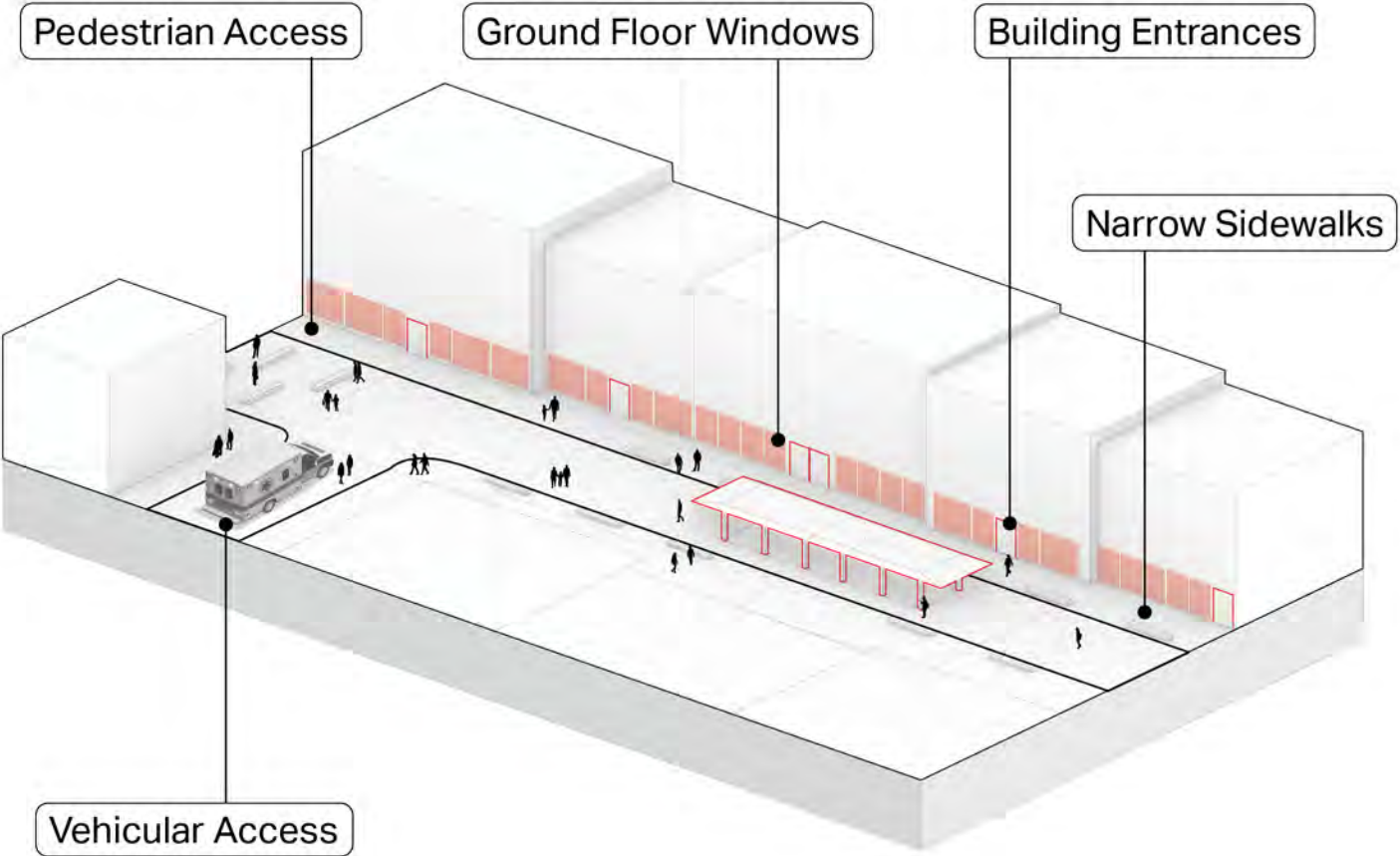
**NAVIGATING  
existing utility  
and corridor  
constraints**



# Key Considerations | Inland



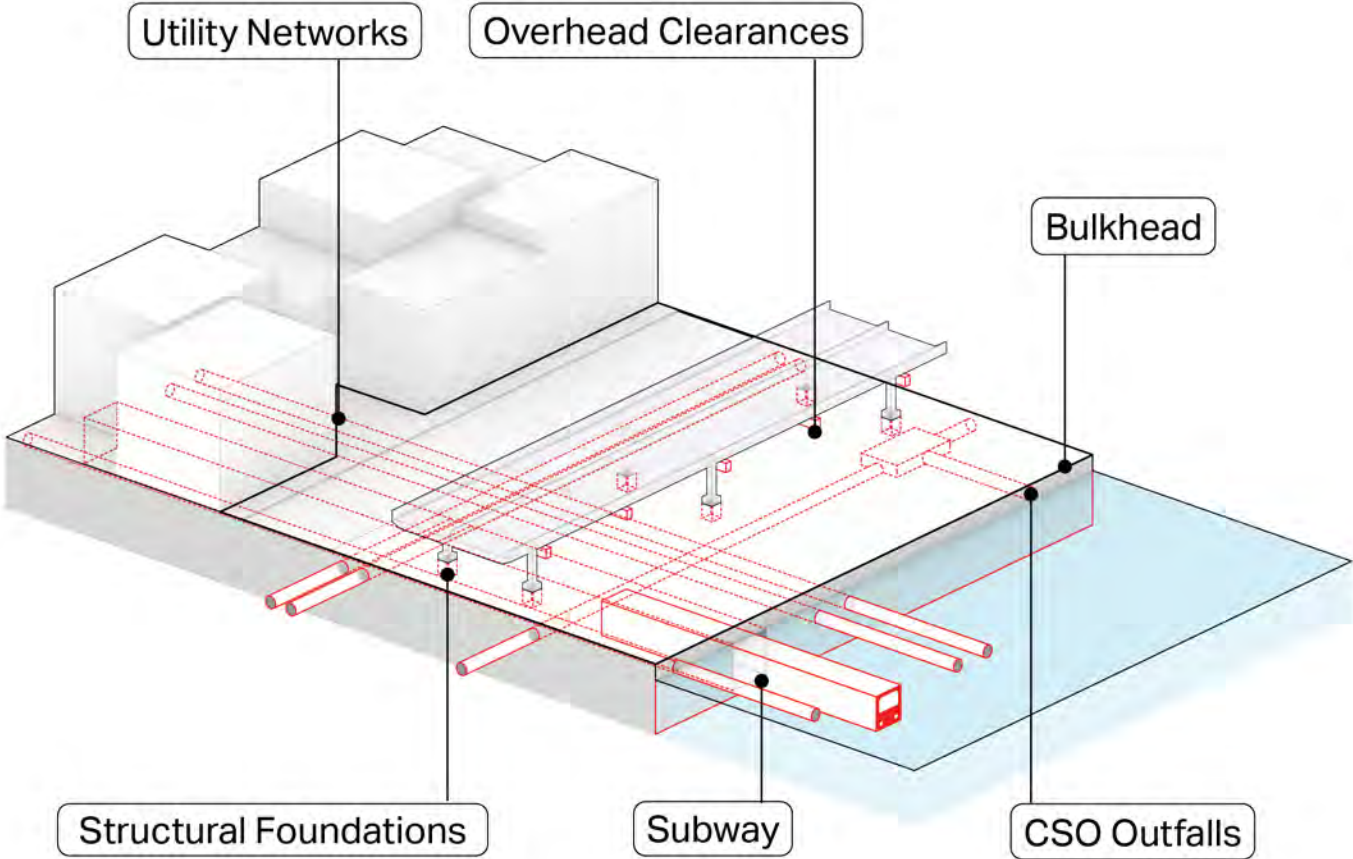
Utility Networks



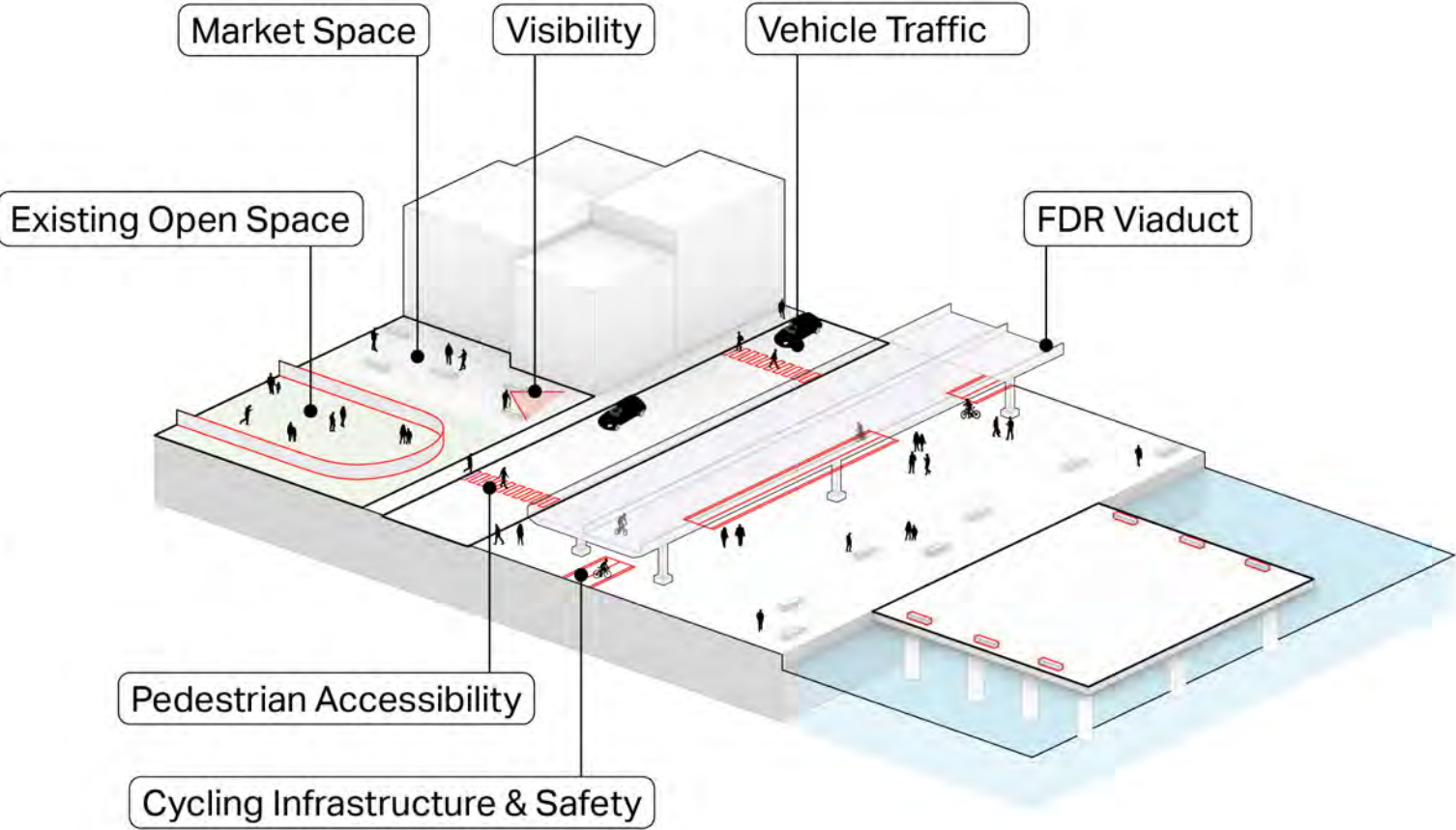
Circulation & Adjacent Uses



# Key Considerations | Waterfront



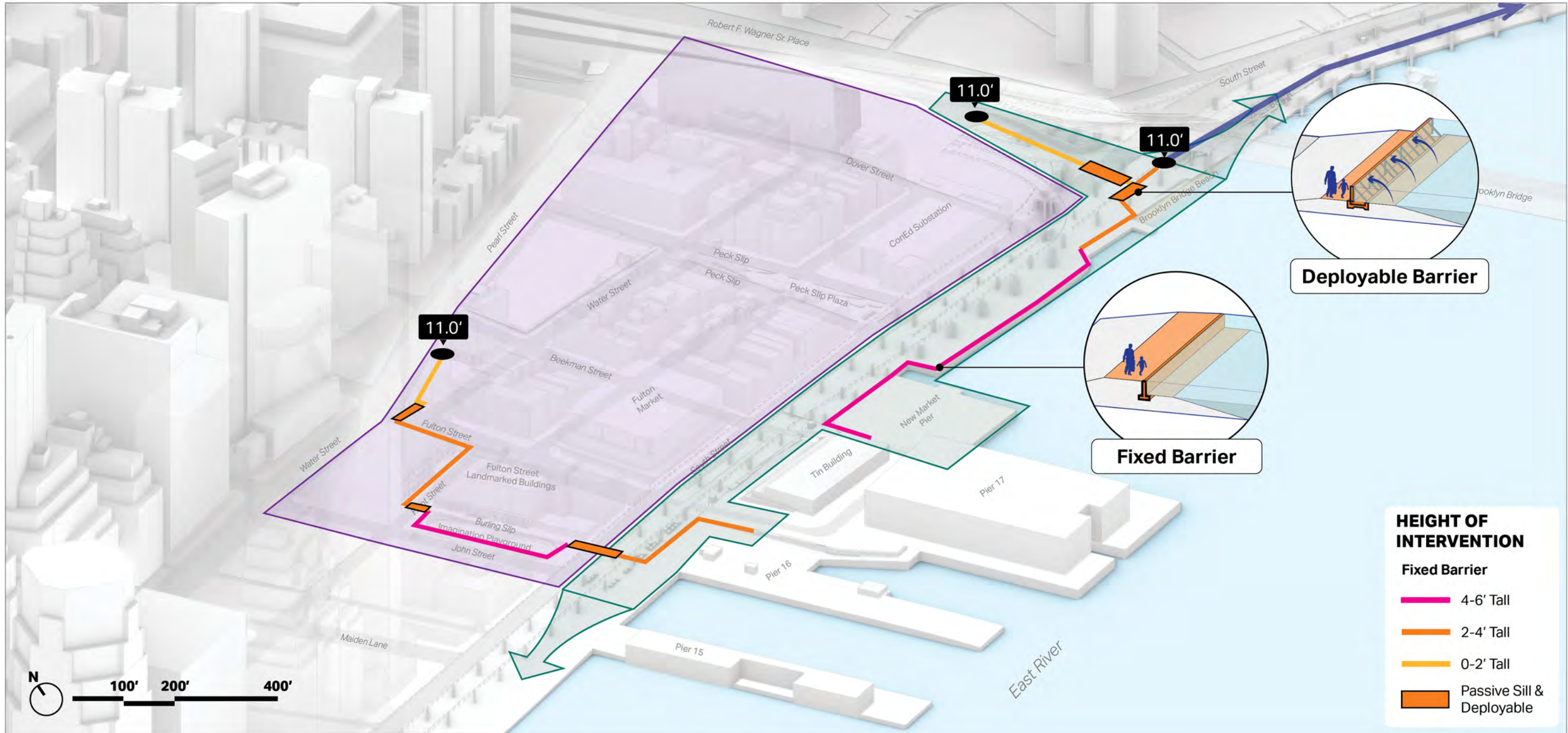
**Subsurface Infrastructure**



**Adjacent Planned Projects**

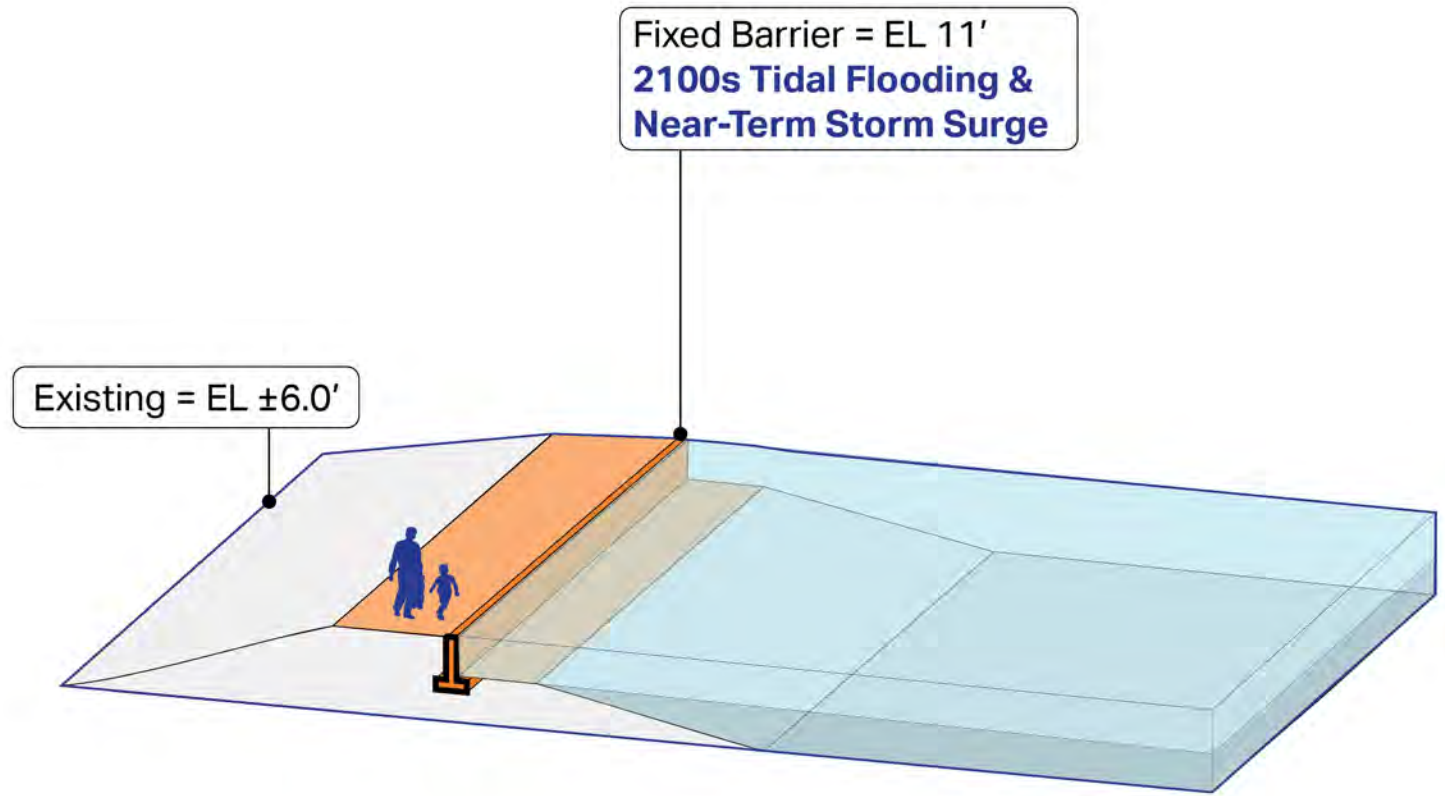


# Preliminary Flood Alignment

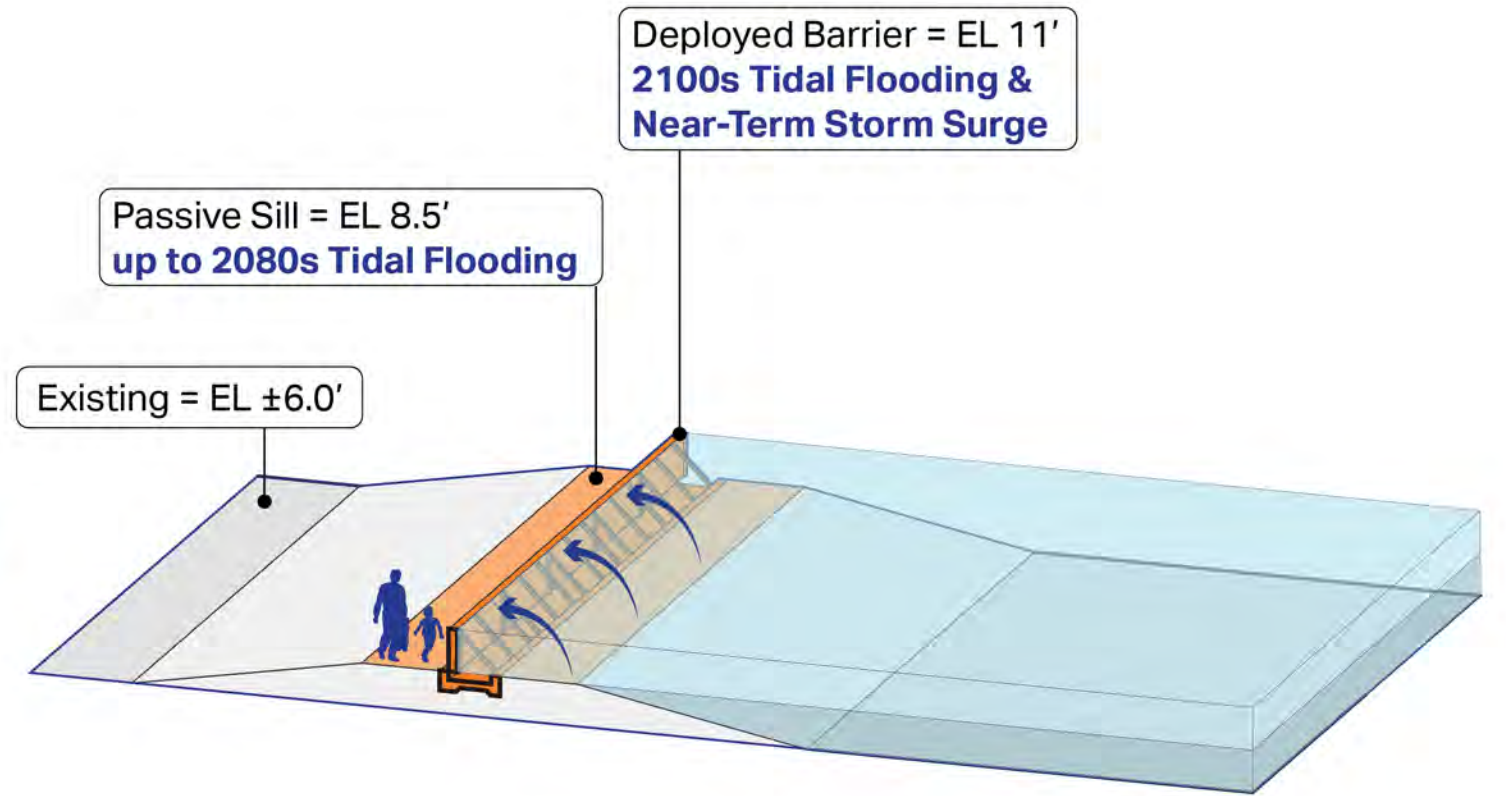




# Design Flood Elevation (DFE)



**Fixed Barrier**

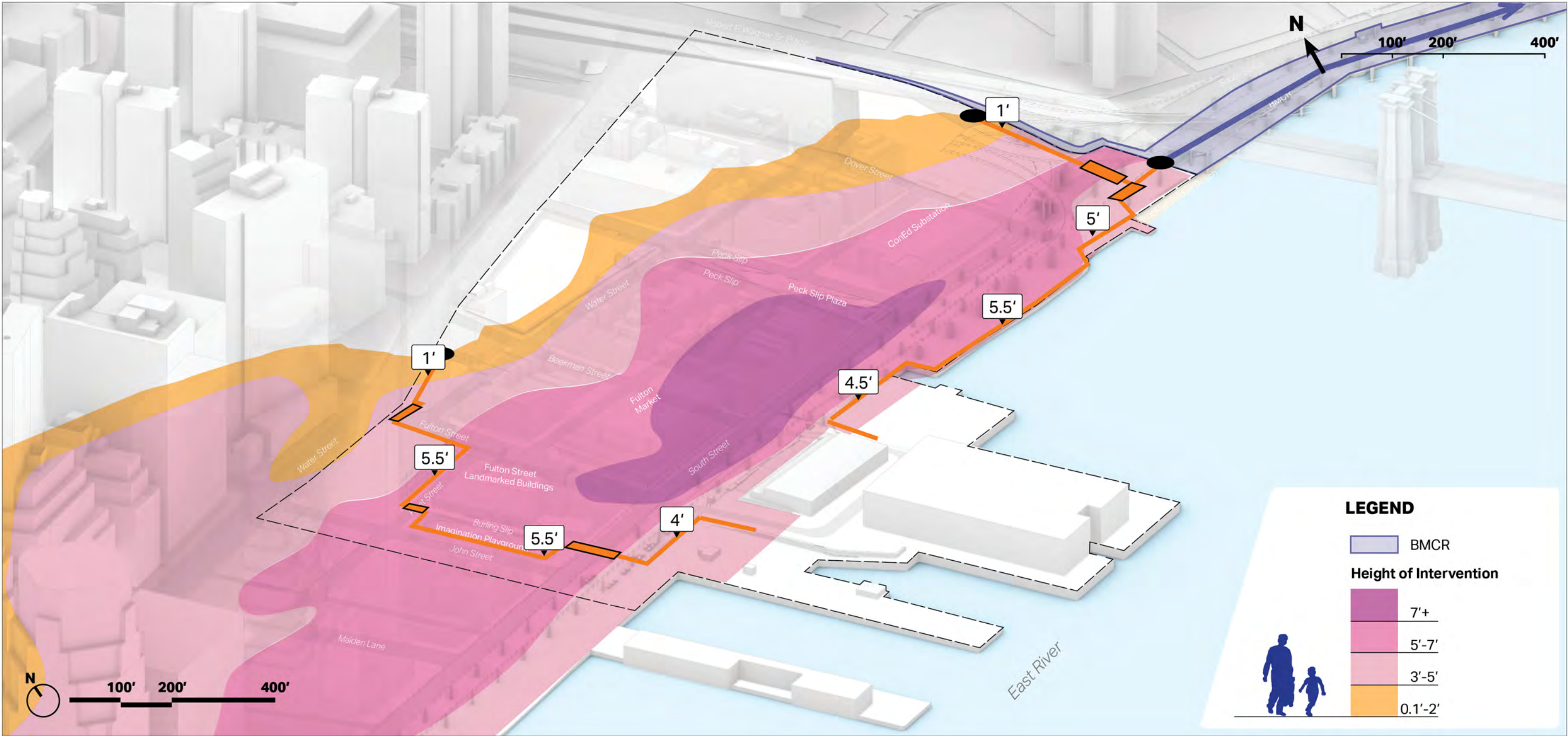


**Passive Sill & Deployable Barrier**

\*Elevations based on NAVD88



# Height of Intervention (HOI)





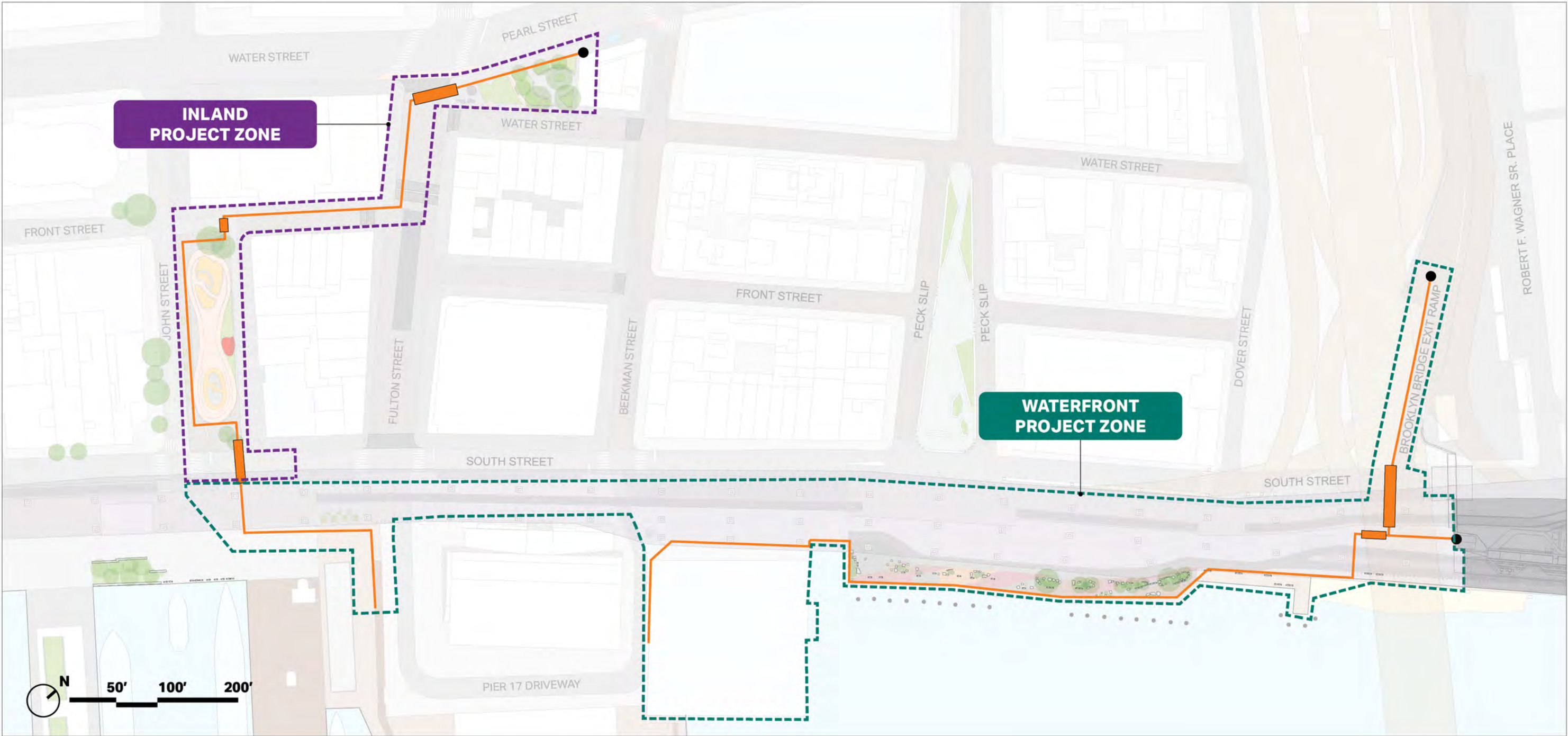
**04**



# **Pre-Design Framework**



# Preliminary Alignment



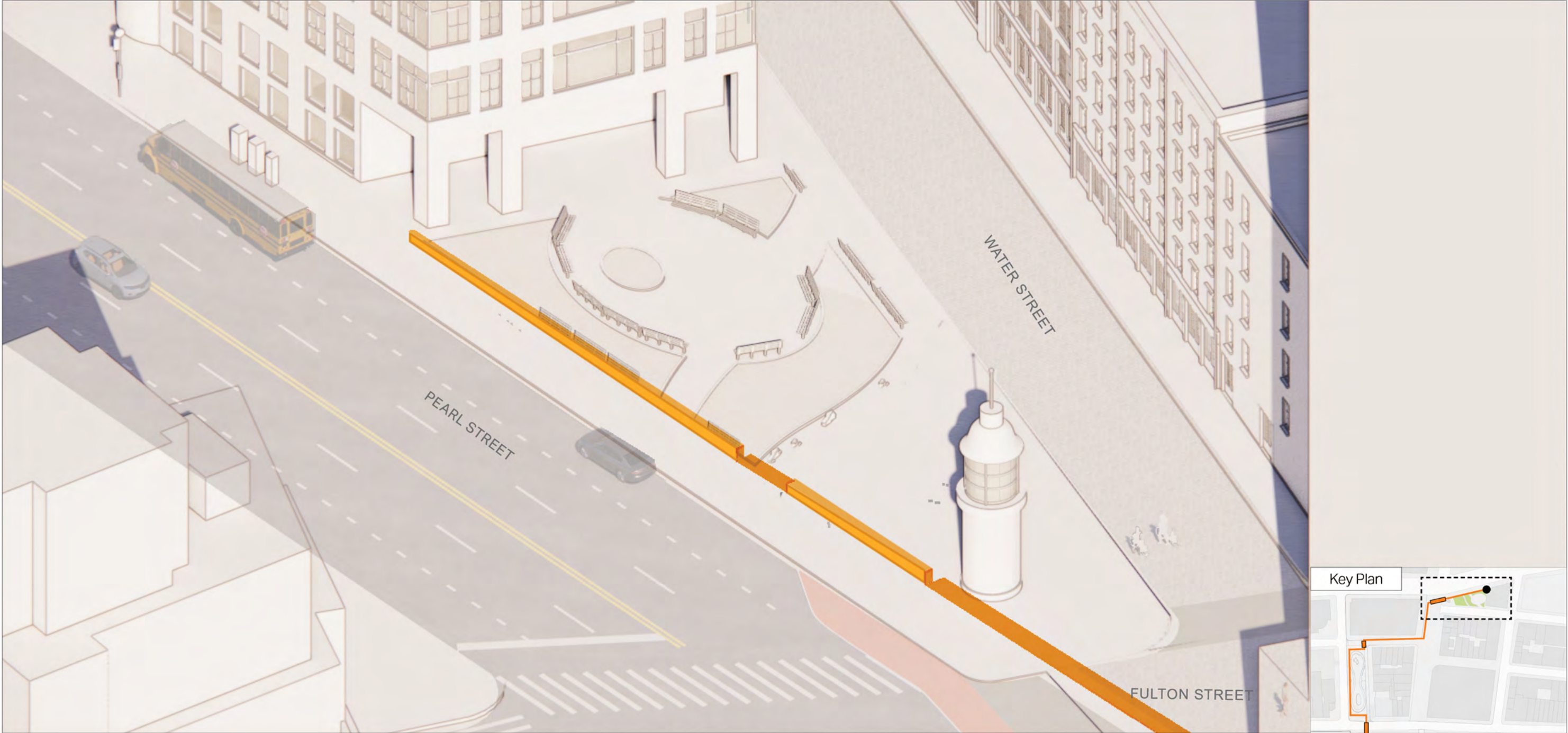


# Inland Alignment | Project Areas





# Area 1: Tie-in at Titanic Memorial | Aerial View





# Area 1: Titanic Memorial | Existing Conditions





# Area 1: Titanic Memorial | Flood Alignment Infrastructure





# Area 1: Titanic Memorial | Placemaking Opportunities





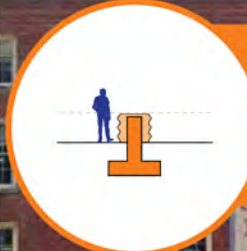
# Area 1: Titanic Memorial | Placemaking Opportunities



**SLOPED PLANTER**  
Mitigates the height of intervention by raising existing planted areas.



**BLEACHER SEATING**  
Provides additional seating along Titanic Memorial and Pearl Street.



**FORMLINER & WALL CLADDING**  
Takes inspiration from the materials of the historic South Street Seaport.

**CELEBRATE**  
the historic character



**SEATING PLANTER**  
Creating planter benches provide additional seating along Titanic Memorial, complementing existing uses.



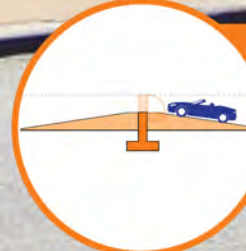
**CONNECT**  
neighborhood & waterfront

Potential space for planting & shade



**ENHANCE**  
public realm experience

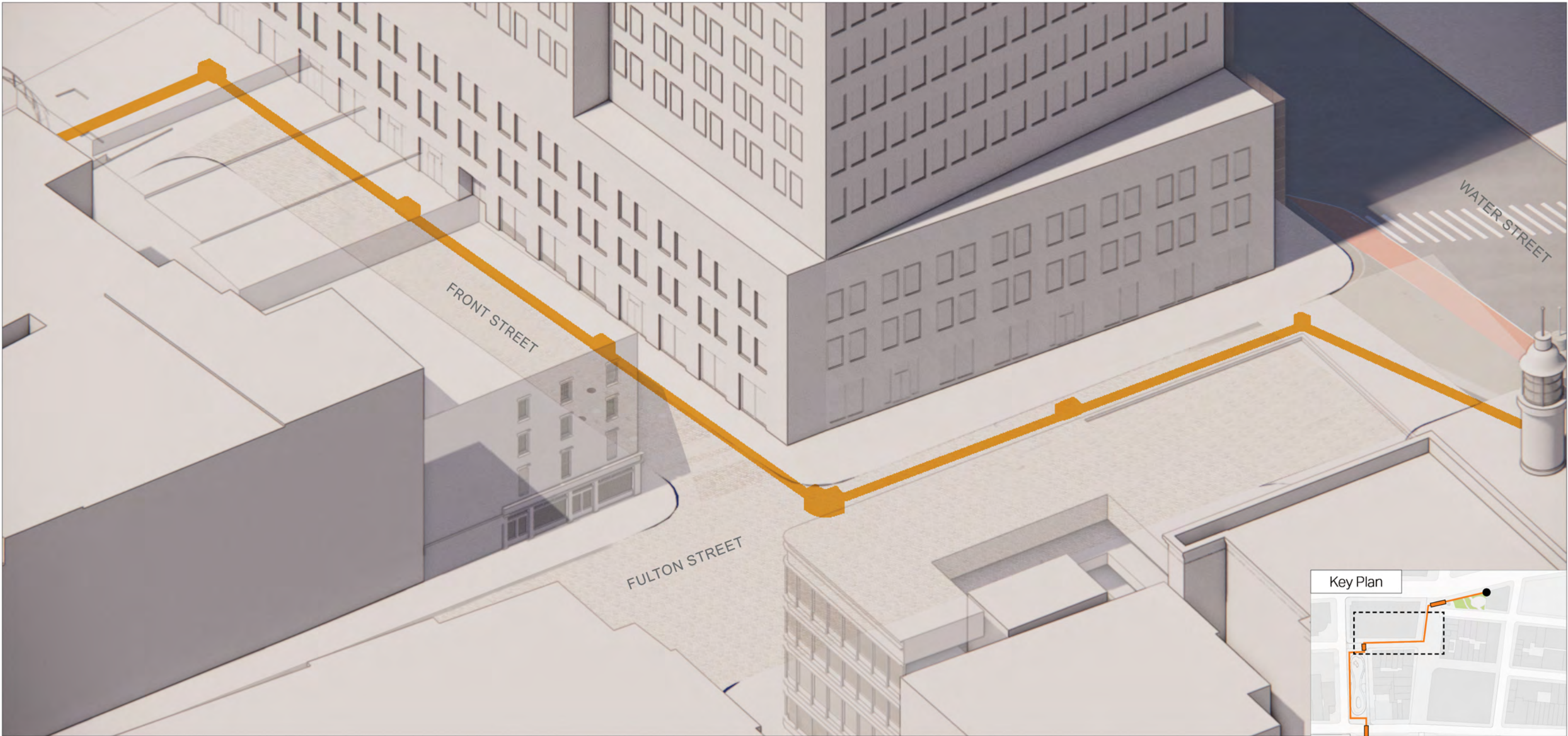
The flood alignment allows clear and accessible pedestrian connectivity throughout the project site.



**RAISED STREET & DEPLOYABLE**  
Raising the street level and establishing a deployable across South Street allows for free circulation.



# Area 2: Seaport's Streets | Aerial View





# Area 2: Seaport's Streets | Existing Conditions



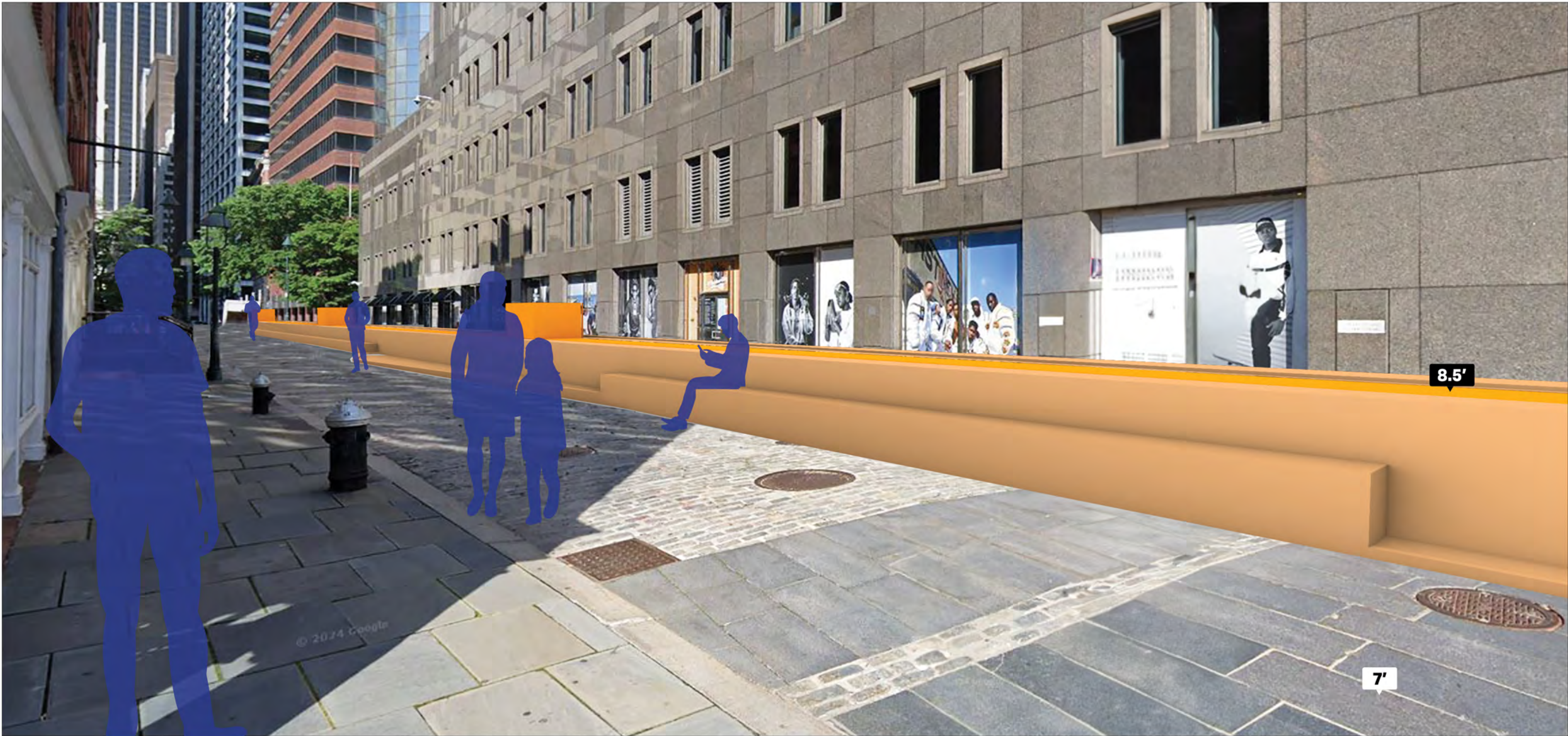


# Area 2: Seaport's Streets | Flood Alignment Infrastructure, Scenario 1: Passive + Deployable



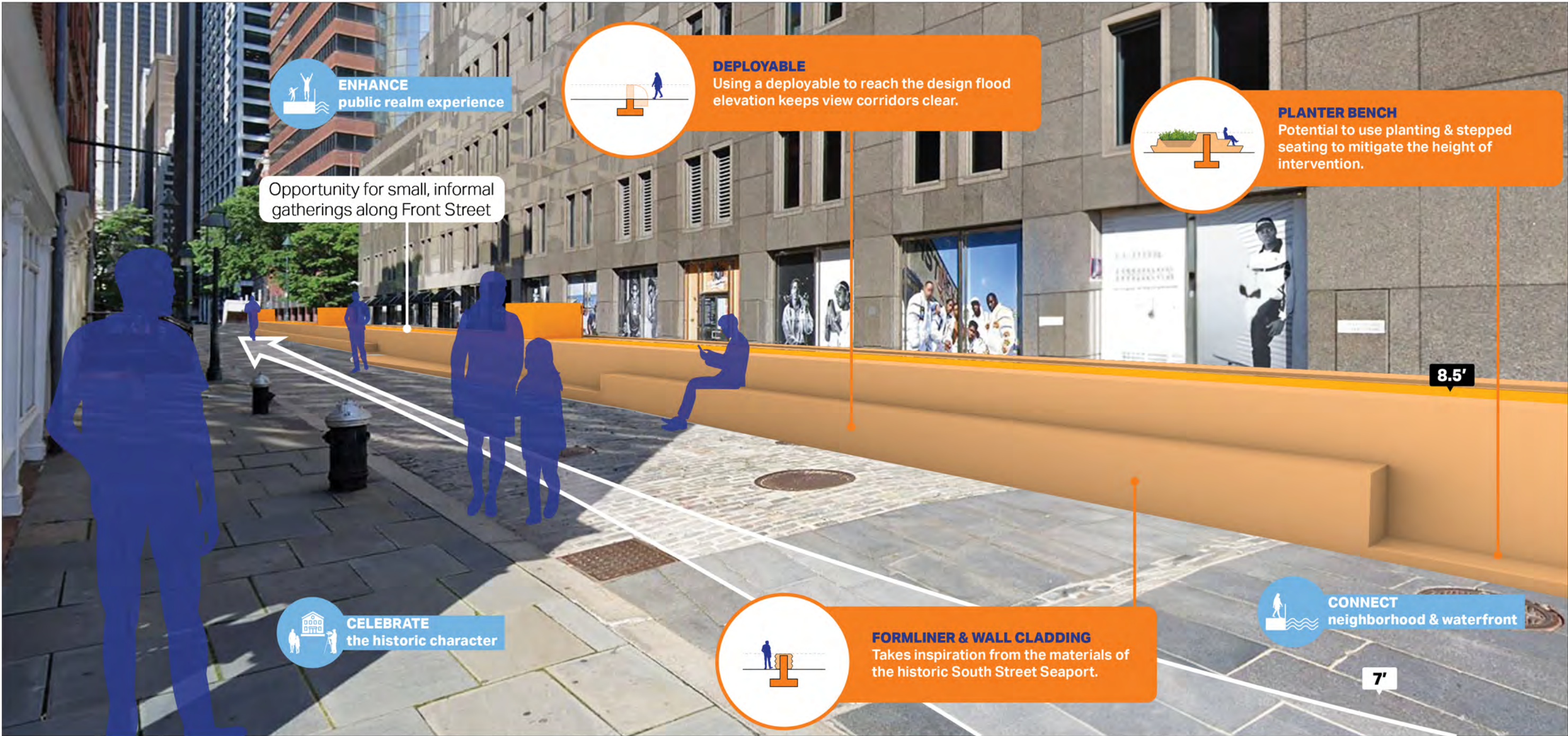


# Area 2: Seaport's Streets | Flood Alignment Infrastructure, Scenario 1: Passive + Deployable





# Area 2: Seaport's Streets | Flood Alignment Infrastructure, Scenario 1: Passive + Deployable



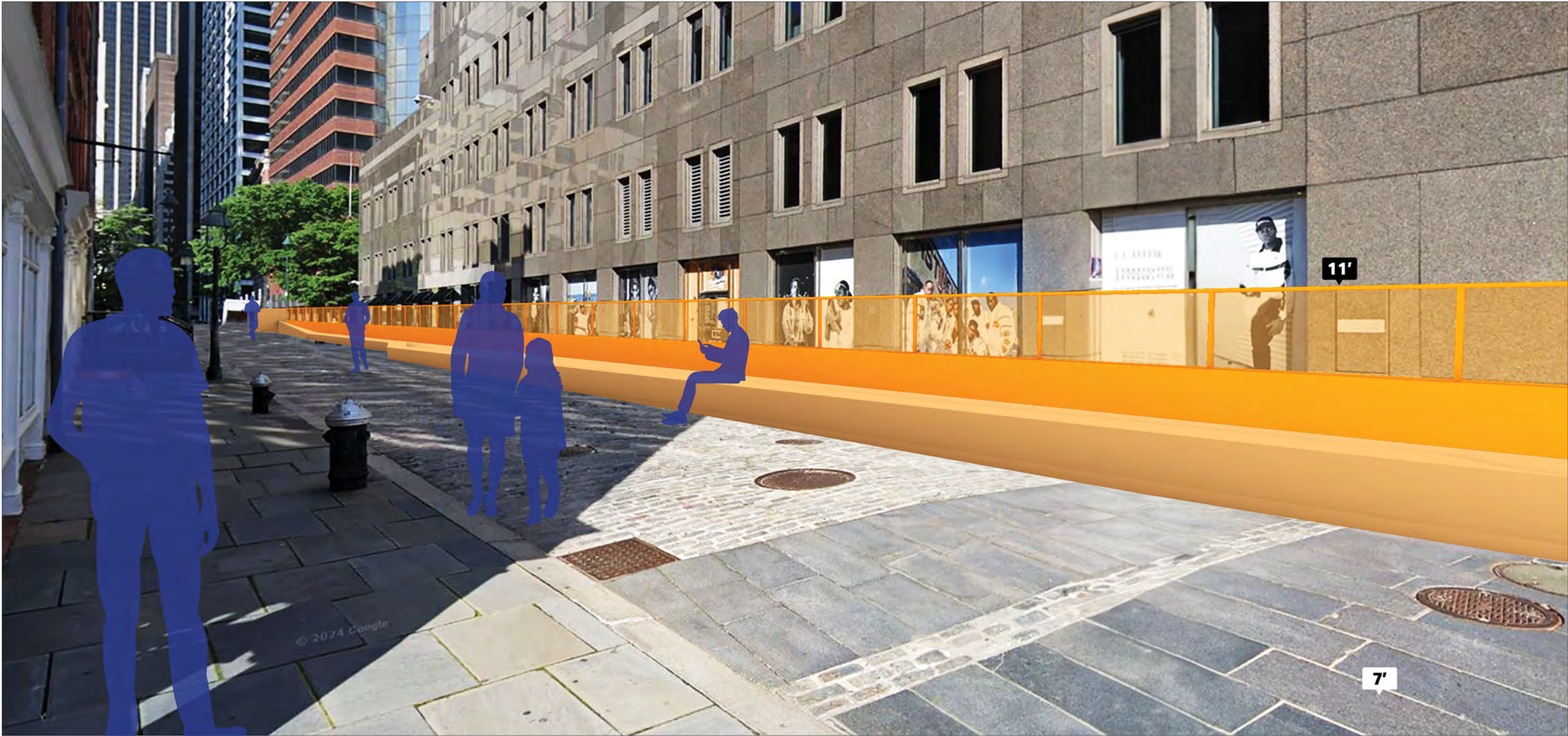


# Area 2: Seaport's Streets | Flood Alignment Infrastructure, Scenario 2: Passive Glass-Topped





# Area 2: Seaport's Streets | Flood Alignment Infrastructure, Scenario 2: Passive Glass-Topped





# Area 2: Seaport's Streets | Flood Alignment Infrastructure, Scenario 2: Passive Glass-Topped



**SLOPED PLANTER**  
Potential to use planting to mitigate the height of intervention.

**GLASS-TOPPED BARRIER**  
Using a glass-top keeps view corridors clear and minimizes the width of the intervention.

**ENHANCE public realm experience**

11'

Opportunity for a variety of seating types

**CELEBRATE the historic character**

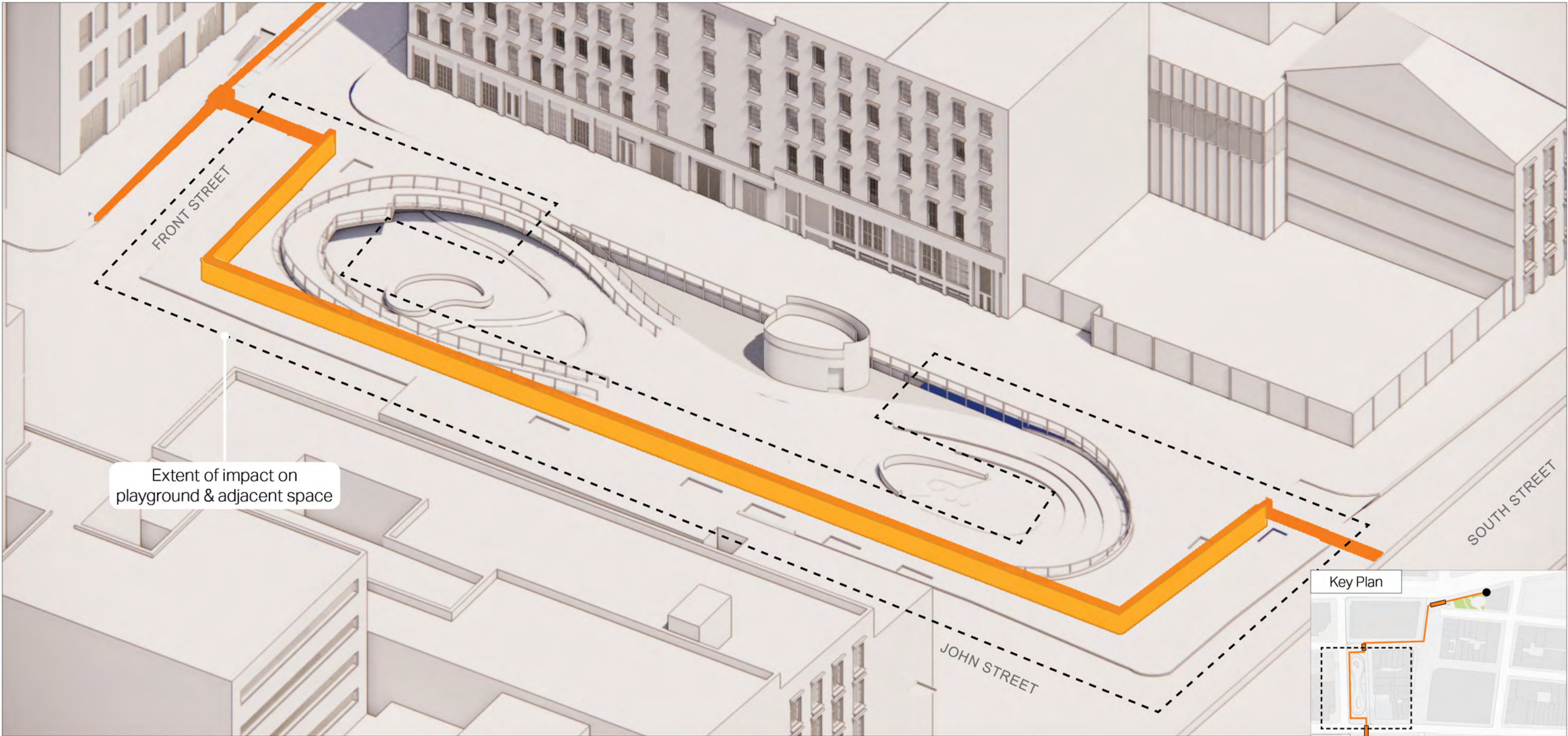
**FORMLINER & WALL CLADDING**  
Takes inspiration from the materials of the historic South Street Seaport.

**CONNECT neighborhood & waterfront**

7'



# Area 3: Imagination Playground | Aerial View





# Area 3: Imagination Playground | Existing Conditions





# Area 3: Imagination Playground | Flood Alignment Infrastructure



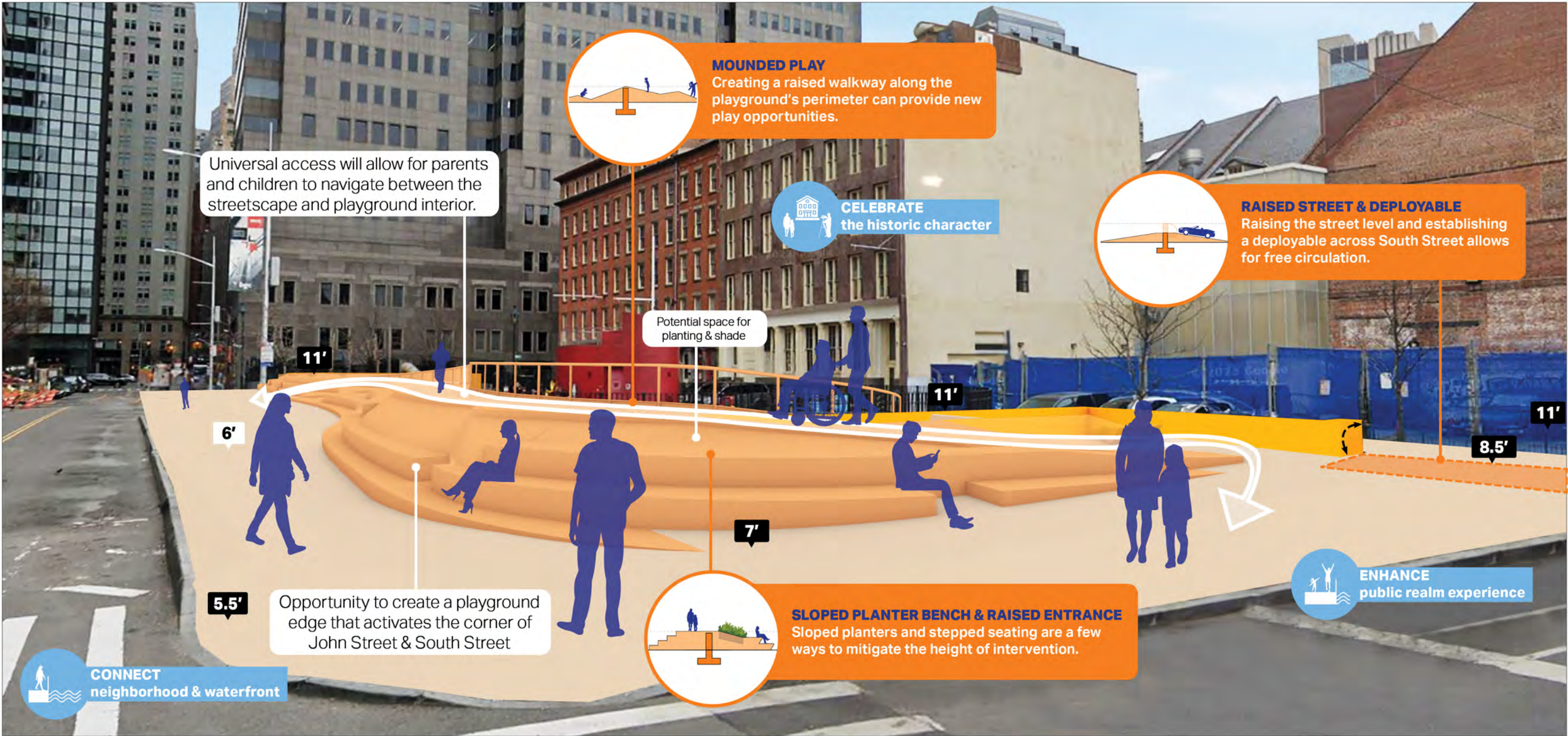


# Area 3: Imagination Playground | Placemaking Opportunities

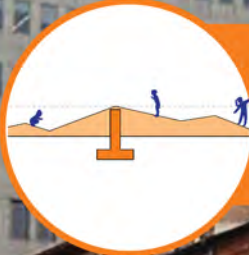




# Area 3: Imagination Playground | Placemaking Opportunities



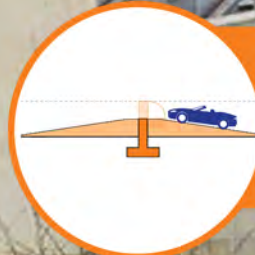
Universal access will allow for parents and children to navigate between the streetscape and playground interior.



**MOUNDED PLAY**  
Creating a raised walkway along the playground's perimeter can provide new play opportunities.



**CELEBRATE**  
the historic character



**RAISED STREET & DEPLOYABLE**  
Raising the street level and establishing a deployable across South Street allows for free circulation.

Potential space for planting & shade

6'

11'

11'

8.5'

11'

7'

5.5'

Opportunity to create a playground edge that activates the corner of John Street & South Street



**SLOPED PLANTER BENCH & RAISED ENTRANCE**  
Sloped planters and stepped seating are a few ways to mitigate the height of intervention.



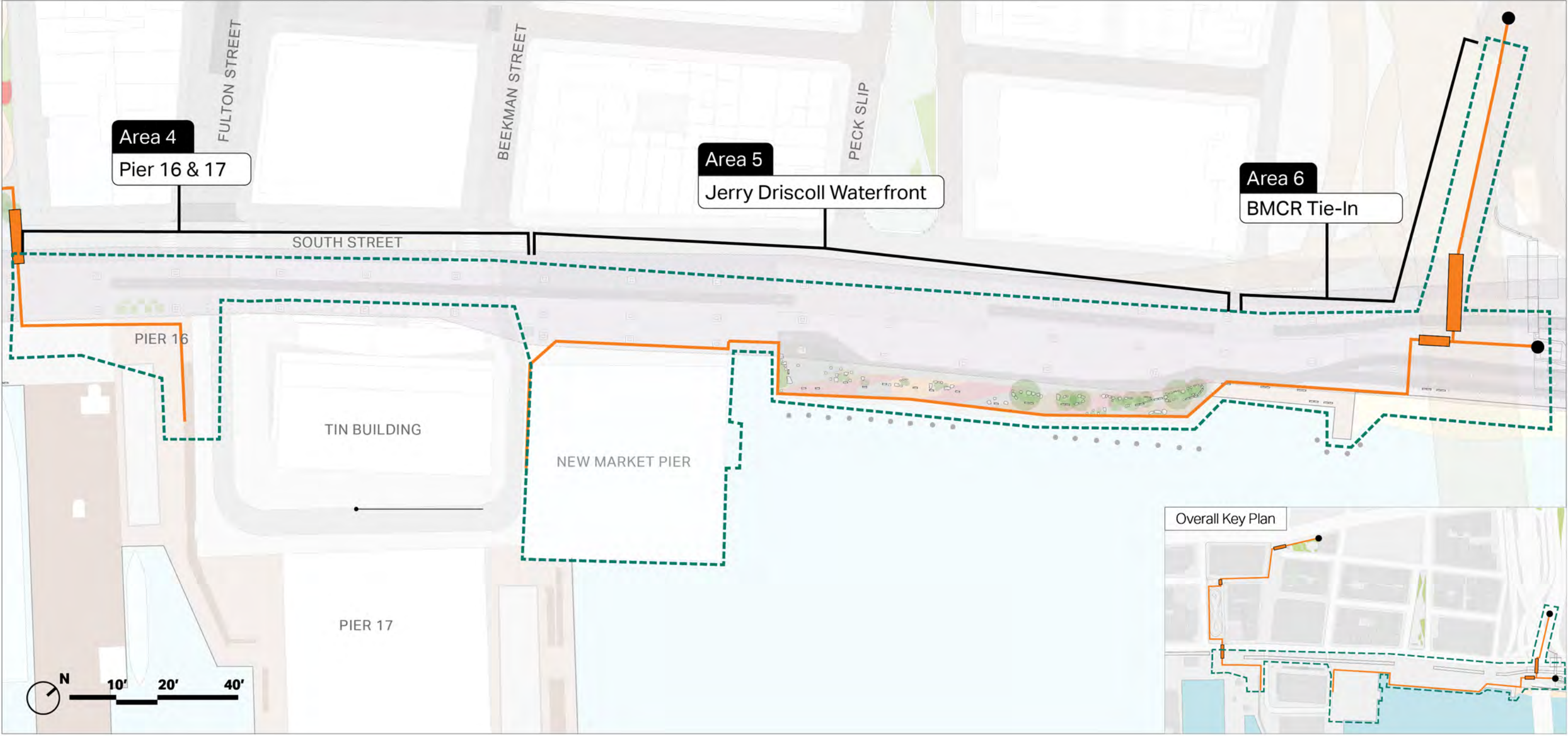
**ENHANCE**  
public realm experience



**CONNECT**  
neighborhood & waterfront

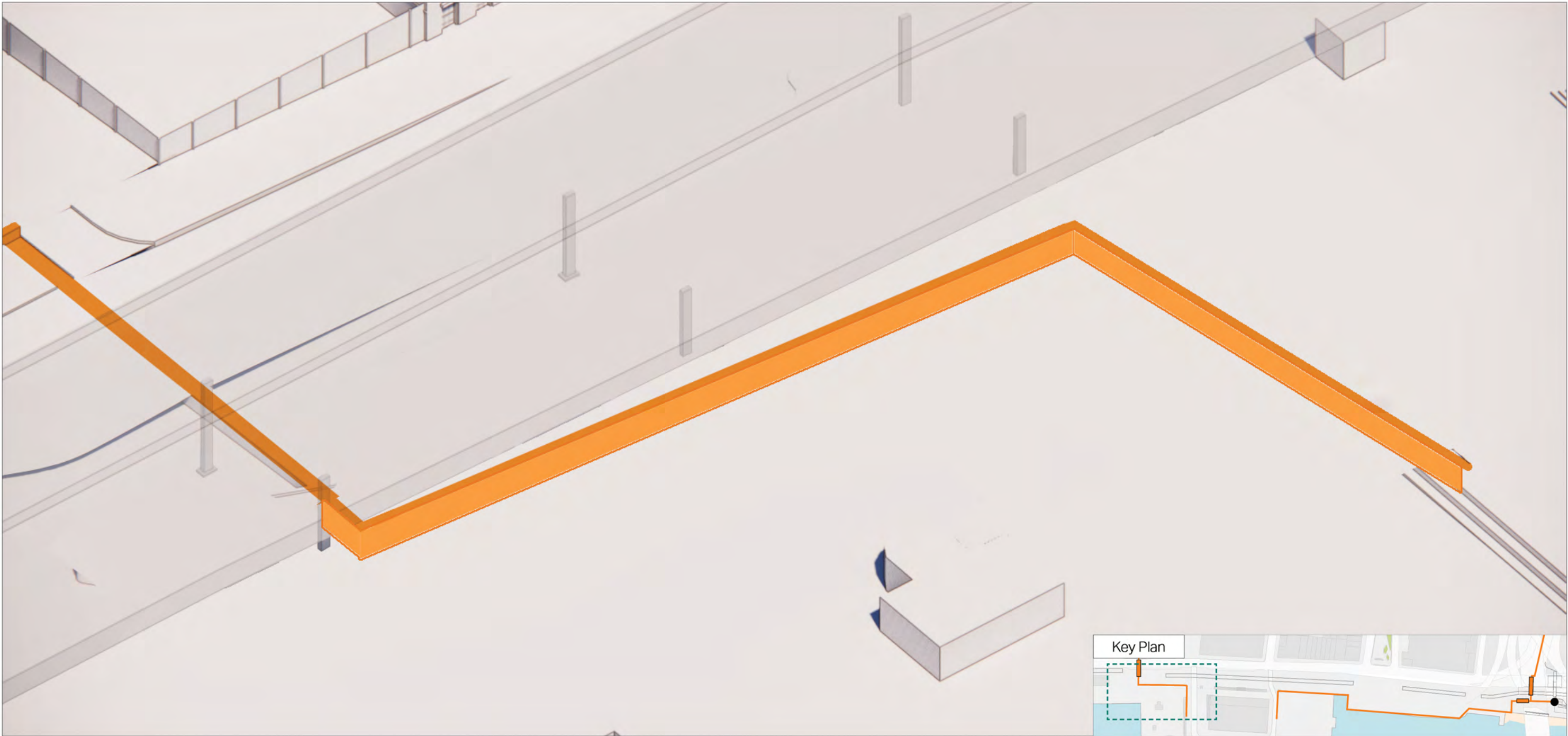


# Waterfront Alignment | Project Areas





# Area 4: Pier 16 & 17 | Aerial View





# Area 1: Pier 16 & 17 | Existing Conditions





# Area 1: Pier 16 & 17 | Flood Alignment Infrastructure



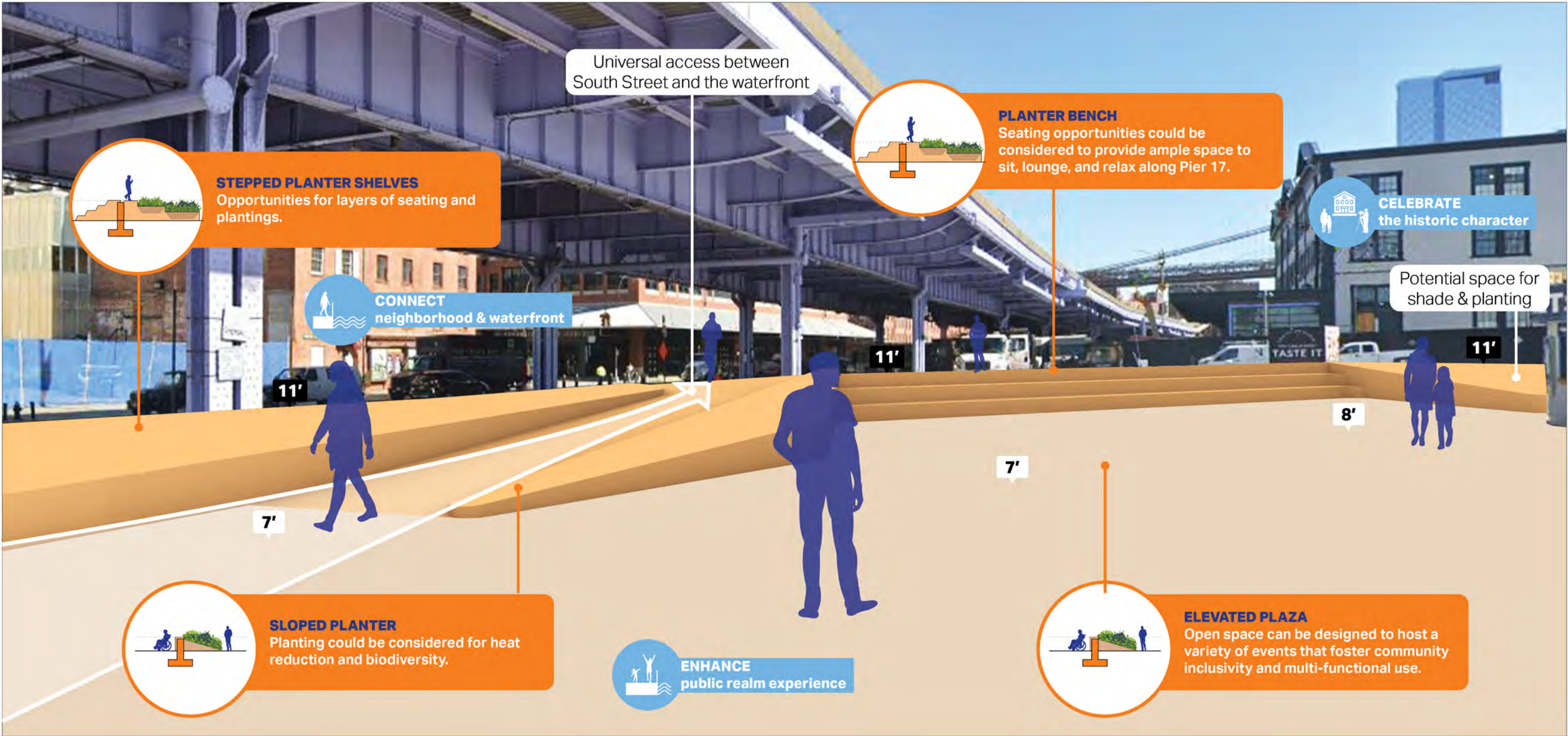


# Area 1: Pier 16 & 17 | Placemaking Opportunities



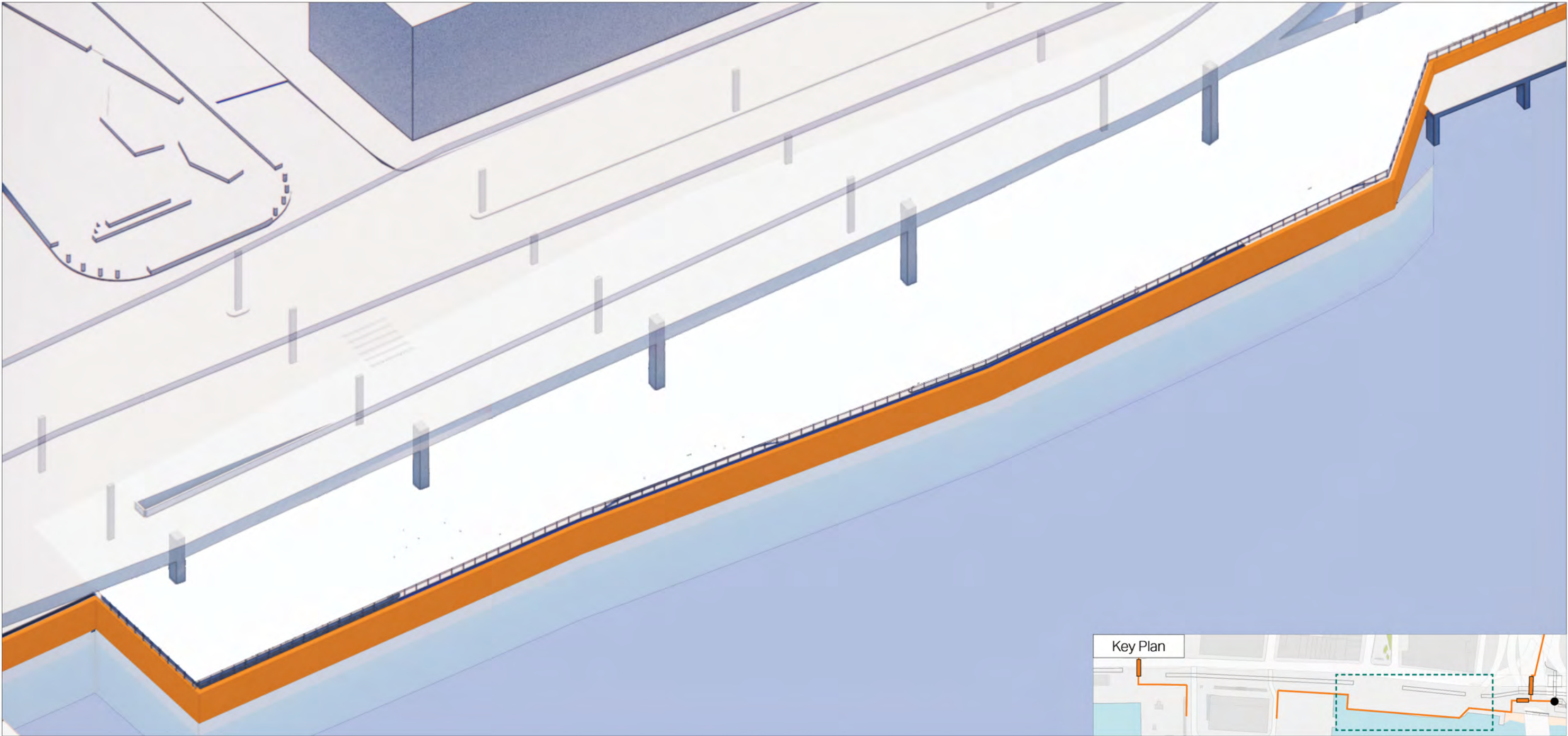


# Area 1: Pier 16 & 17 | Placemaking Opportunities





# Area 5: Jerry Driscoll Waterfront | Aerial View





# Area 2: Jerry Driscoll Waterfront | Existing Conditions



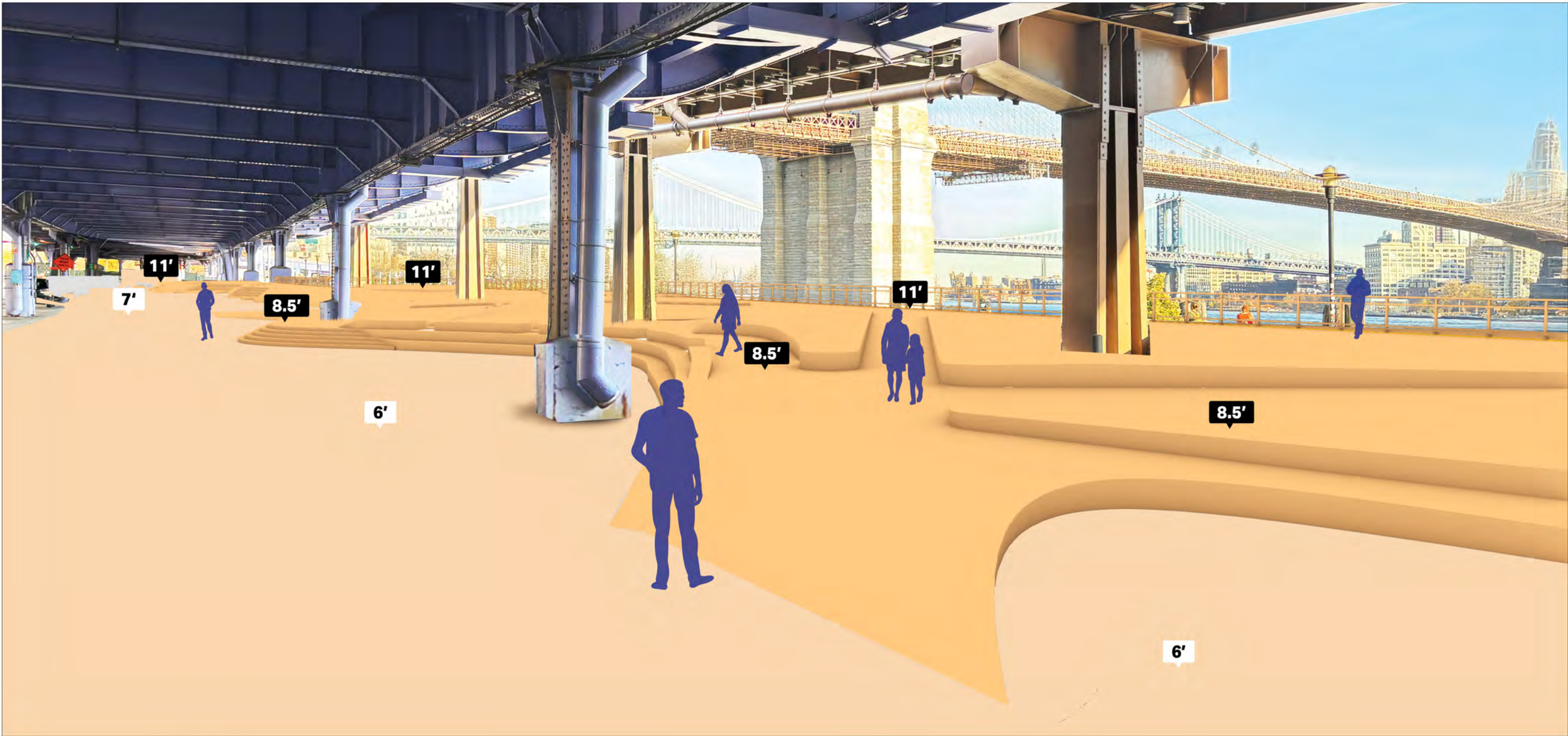


# Area 2: Jerry Driscoll Waterfront | Flood Alignment Infrastructure



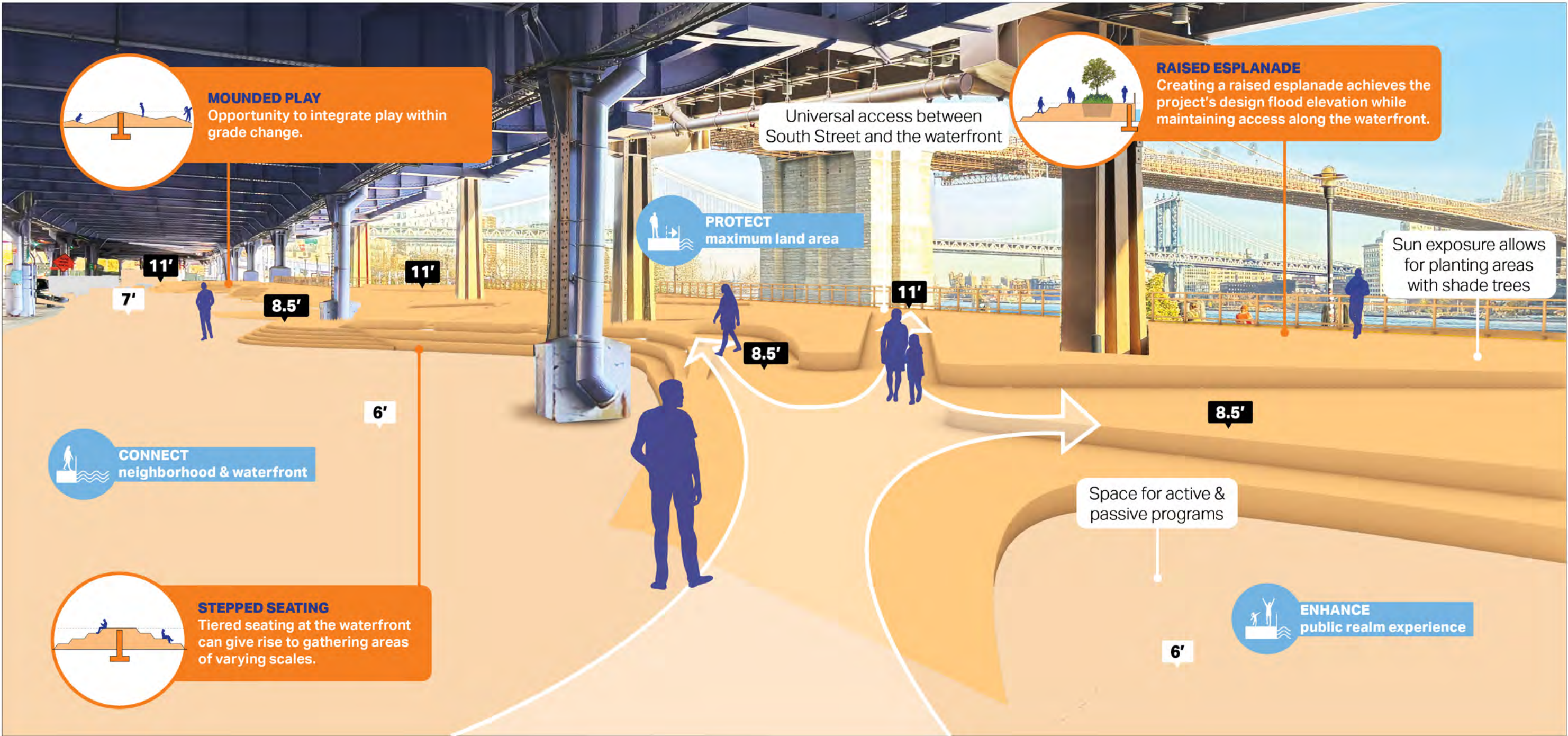


# Area 2: Jerry Driscoll Waterfront | Placemaking Opportunities





# Area 2: Jerry Driscoll Waterfront | Placemaking Opportunities





# Area 2: Jerry Driscoll Waterfront | Existing Conditions





# Area 2: Jerry Driscoll Waterfront | Flood Alignment Infrastructure





# Area 2: Jerry Driscoll Waterfront | Placemaking Opportunities





# Area 2: Jerry Driscoll Waterfront | Placemaking Opportunities



**STEPPED SEATING**  
Tiered seating at the waterfront can give rise to gathering areas of varying scales.



**RAISED ESPLANADE**  
Creating a raised esplanade achieves the project's design flood elevation while maintaining access along the waterfront.



**ENHANCE public realm experience**

Opportunity to create a variety of seating types

Potential for active & passive programs



**PROTECT maximum land area**

Maintaining waterfront view corridors

8.5'

Sun exposure allows for planting areas with shade trees

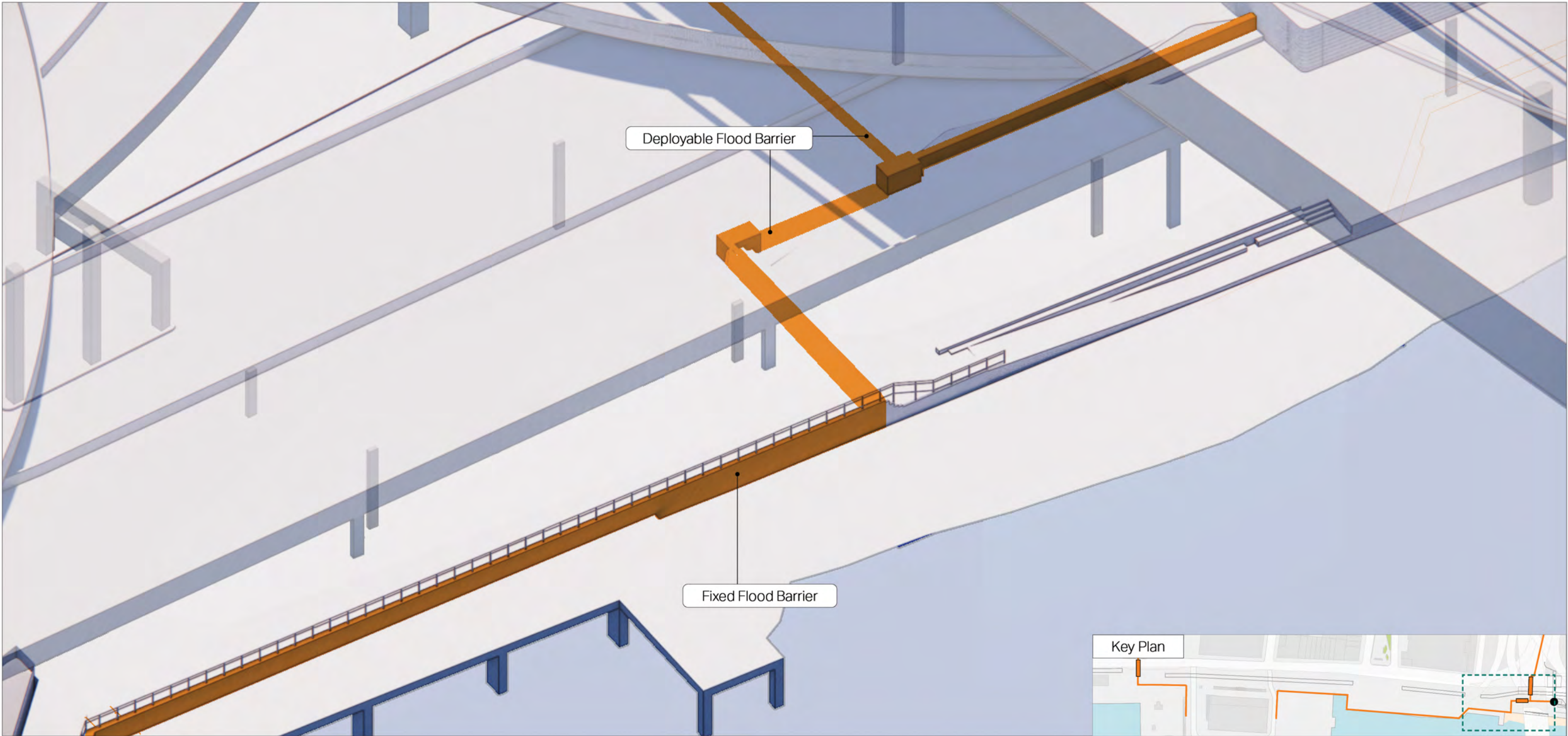


**CONNECT neighborhood & waterfront**

11'



# Area 6: BMCR Tie-in | Aerial View





# Area 3: BMCR Tie-in | Existing Conditions





# Area 3: BMCR Tie-in | Flood Alignment Infrastructure





# Area 3: BMCR Tie-in | Placemaking Opportunities





# Area 3: BMCR Tie-in | Placemaking Opportunities





# Next Steps | Community Outreach

**December** **Community Workshop #2:**  
Alignment Updates & Public Realm Design Workshop

**January** **CB1 (Environmental Protection Committee):**  
Share feedback from Community Workshop #2  
and design progress

**Spring 2025** **Public Walking Tours/Pop-Up Events**

**Spring 2025** **Community Workshop #3:**  
Present design progress and receive feedback





# How to Comment



## Comment Form

Fill out a comment form at tonight's meeting and leave it in the comment box.



## Web Contact Form

[bit.ly/ContactSPCR](https://bit.ly/ContactSPCR)



## Email

[SPCR@fhstudio.com](mailto:SPCR@fhstudio.com)



## Visit the Project Website\*

[www.nyc.gov/site/lmcr/progress/seaport-coastal-resilience-project.page](https://www.nyc.gov/site/lmcr/progress/seaport-coastal-resilience-project.page)



*\*or scan QR code*

**Please provide comments by Friday, January 3, 2025.**



**Thank You!**



# Appendix | BMCR





# Appendix | BMCR





# Appendix | BMCR

