

# NORTH/WEST BATTERY PARK CITY RESILIENCY PROJECT

Reach 6-7 Workshop

March 6, 2023



Battery Park  
City Authority

Turner & CRUZ ARCADIS SCAPE BIG WSP

## Project Team

### CLIENT TEAM:

#### CLIENT:



#### ADVISORS:



#### CONSULTANTS:



### DESIGN-BUILD TEAM:

#### PRIMARY CONTRACT:



#### CONSULTANT:



#### SUB-CONSULTANTS:



## Today's Workshop

- 1. Introduction and Project Overview (20 mins)**
- 2. Small Group Discussion**
  - a. Reach 6 (30 mins)**
  - b. Reach 7 (30 mins)**
- 3. Small Group Report Out and Response (1 hour)**
- 4. Closing Remarks**



## Project Schedule



Precise construction completion dependent upon agency permitting and approvals.



# A Piece of a Connected & Resilient Waterfront

US ARMY CORPS OF  
ENGINEERS NY-NJ HARBOR  
AND TRIBUTARIES STUDY

TRIBECA

SEAPORT

FINANCIAL  
DISTRICT

BROOKLYN BRIDGE - MONTGOMERY  
COASTAL RESILIENCE  
.80 MILES

EAST SIDE COASTAL  
RESILIENCY

BATTERY PARK CITY  
RESILIENCE PROJECTS  
1.15 MILES

THE BATTERY  
COASTAL RESILIENCE  
.33 MILES

THE FINANCIAL DISTRICT AND SEAPORT  
CLIMATE RESILIENCE MASTERPLAN  
HIGHLY CONSTRAINED AREA  
.90 MILE





# Today's Focus Area



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



# Future Flood Risk





# Reach 6 + 7

REACH 7

REACH 6

REGATTA  
RESIDENCES

LIBERTY TERRACE  
RESIDENCES

LIBERTY HOUSE  
RESIDENCES

HUDSON  
TOWER  
RESIDENCES

GATEWAY  
APARTMENTS

1ST PL.

2ND PL.

BATTERY PL.

3RD PL.

W. THAMES ST.

RECTOR PL.

ALBANY ST.

SOUTH END AVE.



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# Battery Park City Esplanade

REACH 6

REGATTA  
RESIDENCES

LIBERTY TERRACE  
RESIDENCES

LIBERTY HOUSE  
RESIDENCES

HUDSON  
TOWER  
RESIDENCES

GATEWAY  
APARTMENTS

1ST PL.

2ND PL.

BATTERY PL.

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## What We Heard

- **Concerns over Impact On Waterfront: Access And Views**
- **Desire to Maintain Waterfront Esplanade and Canopy**
- **Crowding and Mobility Conflicts at Intersections**
- **Concerns Over Use of Bicycles**



# What We Heard



## 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

# South Esplanade Constraints

Hudson River

## LEGEND



EXISTING PLATFORM



COMBINED SEWER



STORMWATER SEWER



EXISTING TREES



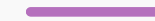
0' 40' 80' 200'



N



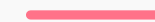
WATER



GAS



ELECTRIC



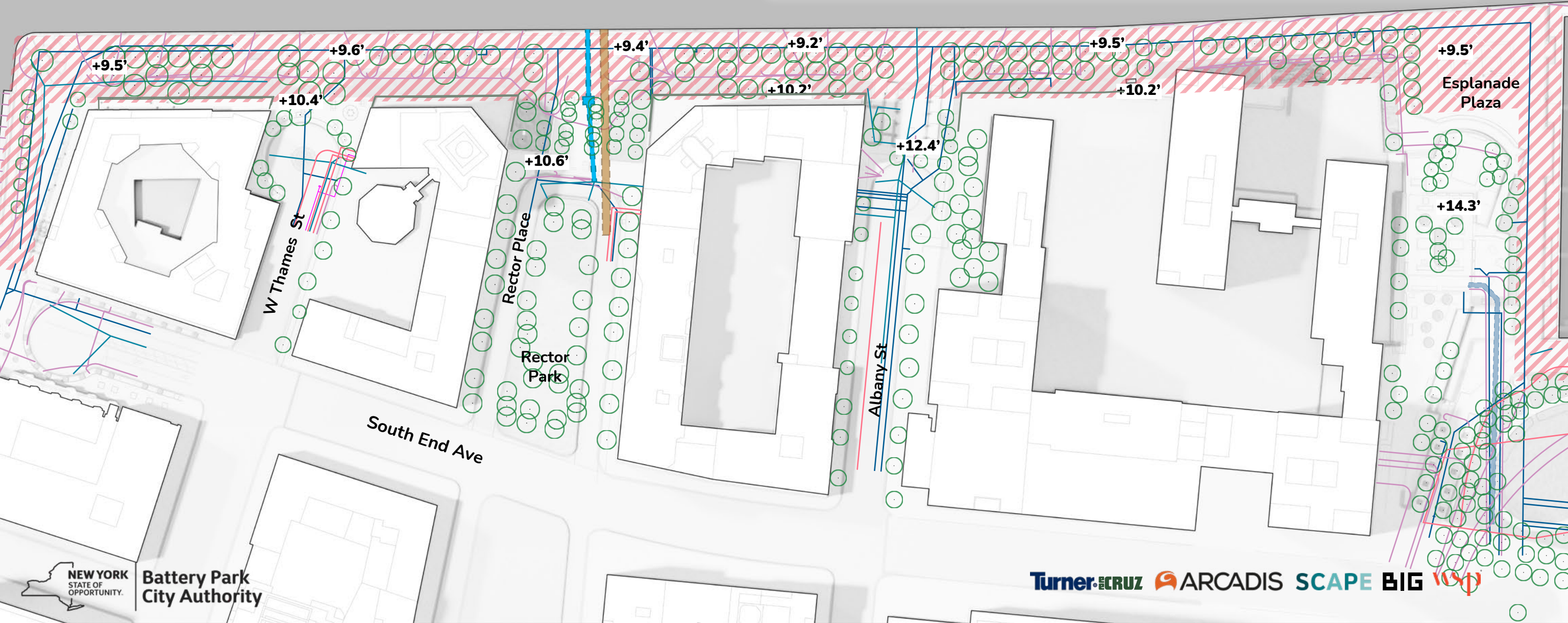
TELECOM



GATEWAY RESIDENCES - CANTILEVER



PRIVACY WALL



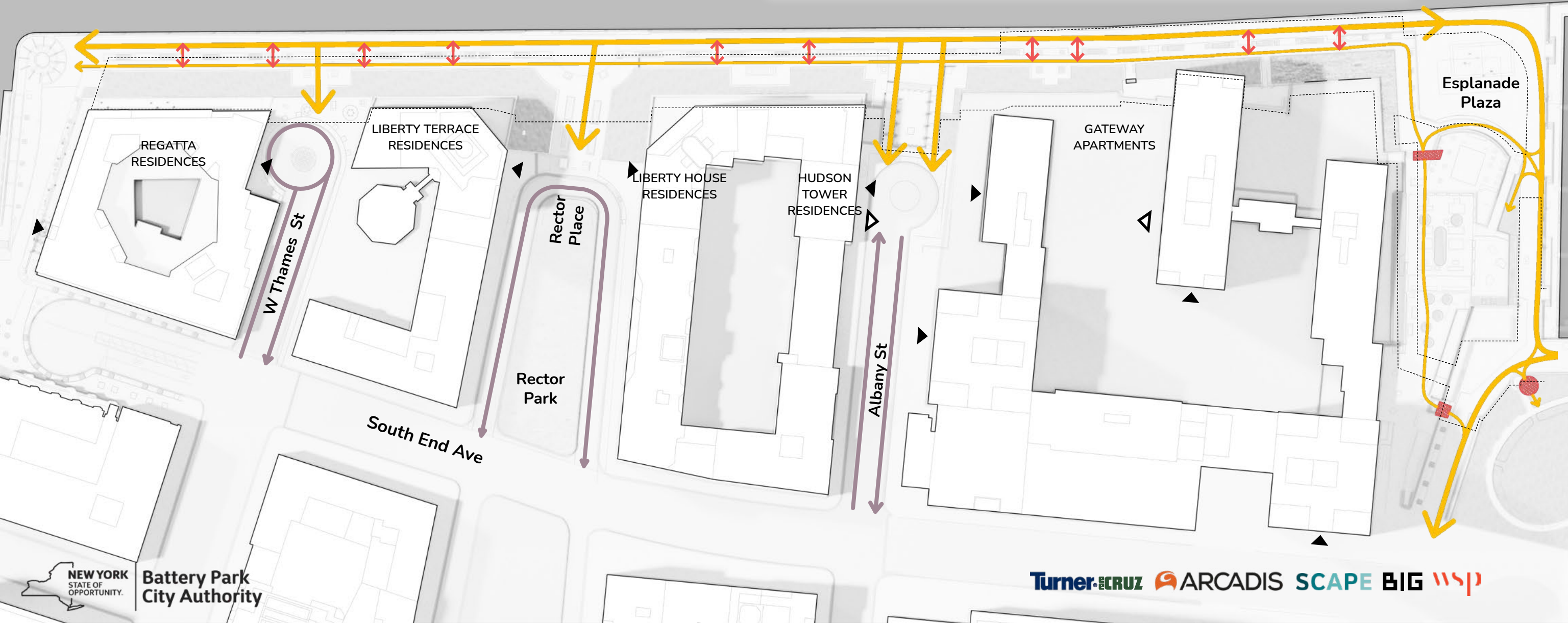


# Circulation & Access

## LEGEND

- PRIMARY CIRCULATION - PEDESTRIAN & BIKES
- SECONDARY CIRCULATION - PEDESTRIAN
- CIRCULATION - NON-ACCESSIBLE
- VEHICULAR TRAFFIC

- ENTRANCE
- VEHICLE EXIT





# Circulation & Access



Primary  
Circulation

Secondary  
Circulation

Example Condition: W. Thames Street Connection



# Existing Green Space and Trees

Hudson River

## LEGEND

--- LIMIT OF WORK

EXISTING GREEN SPACE

FLOODWALL

EXISTING TREES

0' 40' 80' 200'



Esplanade Plaza

W Thames St

Rector Place

Rector Park

South End Ave

Albany St



Battery Park  
City Authority

# Impacted Trees

## LEGEND

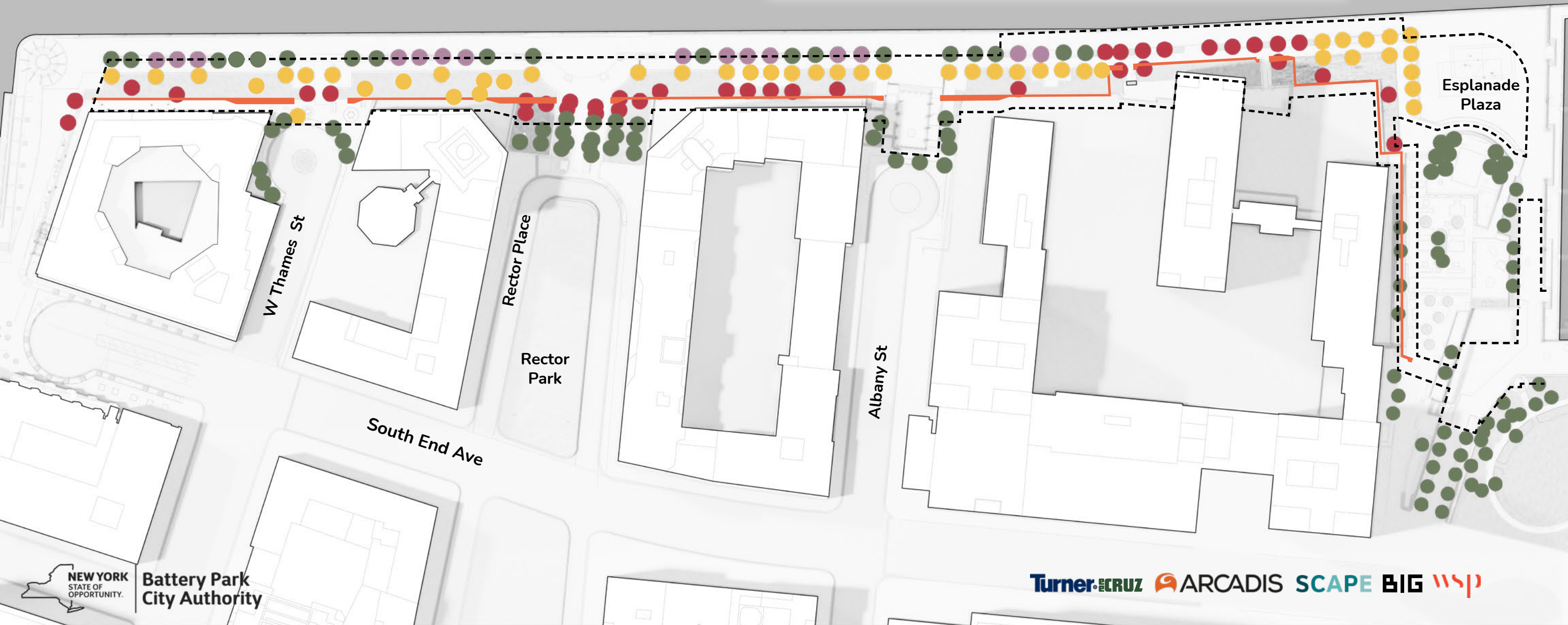
- TREES IMPACTED
- TREES AT RISK
- EXISTING TREES

- TREES WITH EXISTING HEALTH ISSUES\*

\*TREES THAT ARE ALREADY A HAZARD TREE, OR WILL LIKELY BECOME A HAZARD TREE WITHIN 10 YEARS AND/OR SUFFER MORTALITY.



Hudson River





# Street End Connections

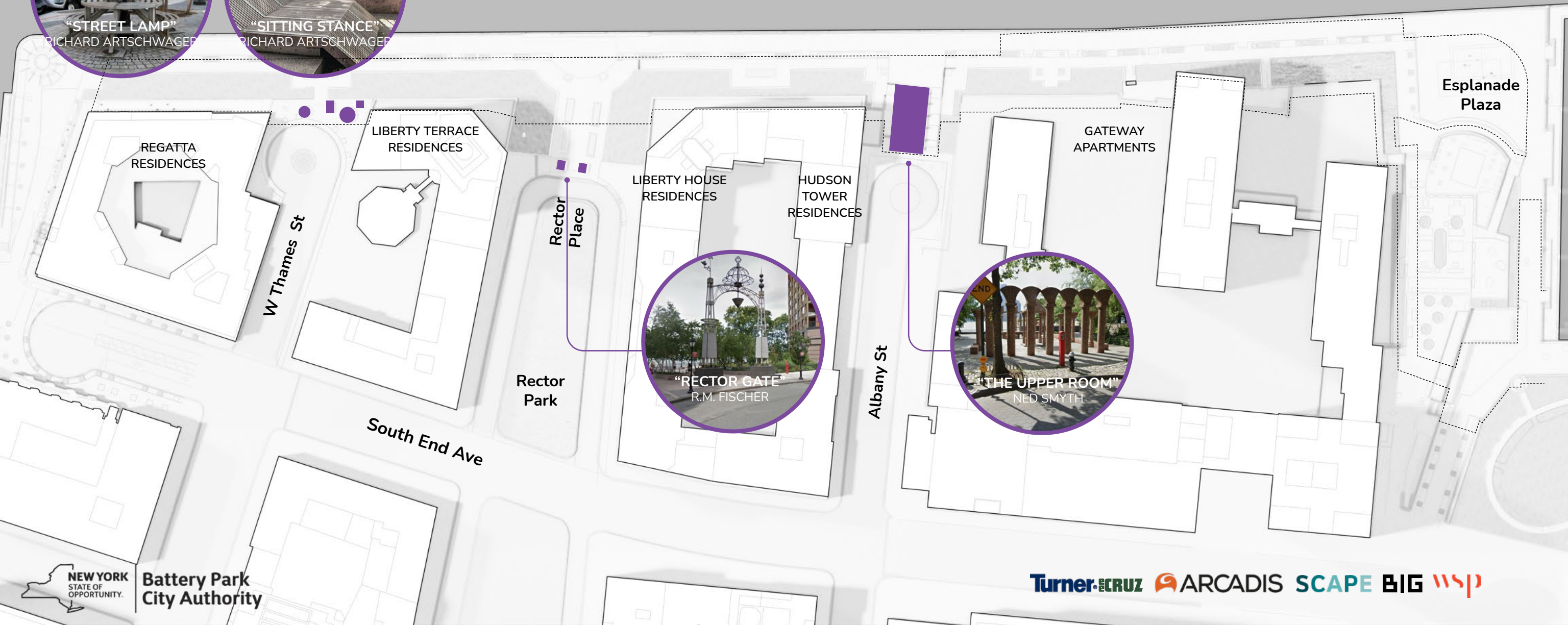


Hudson River

## LEGEND

EXISTING ARTWORK

VEHICULAR TRAFFIC





# SECTION: EXISTING

HISTORIC WATERFRONT PROMENADE

UPPER PATHWAY

PLANTING BUFFER

+19 FBS El. with Integrated Attenuation

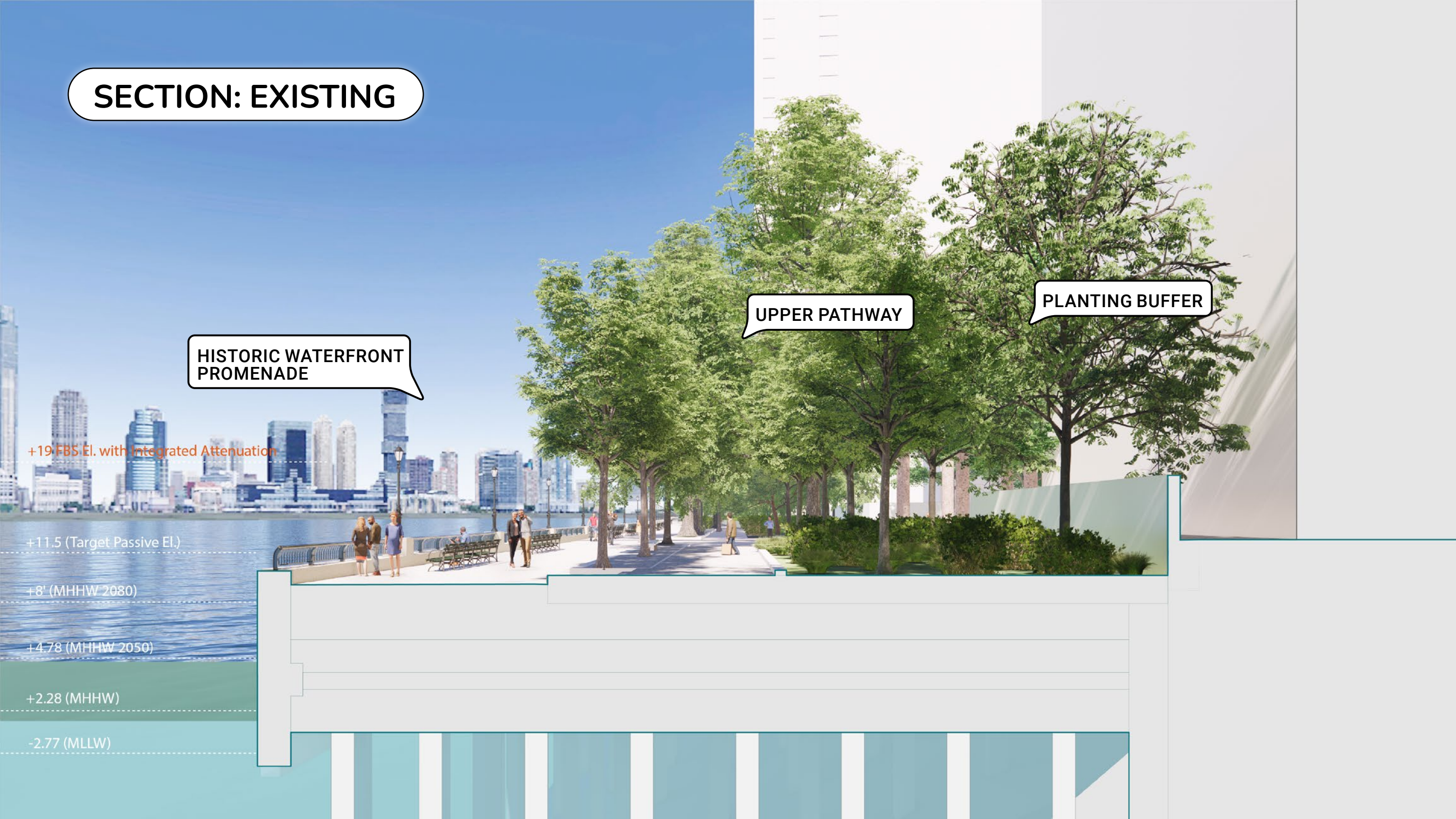
+11.5 (Target Passive El.)

+8' (MHHW 2080)

+4.78 (MHHW 2050)

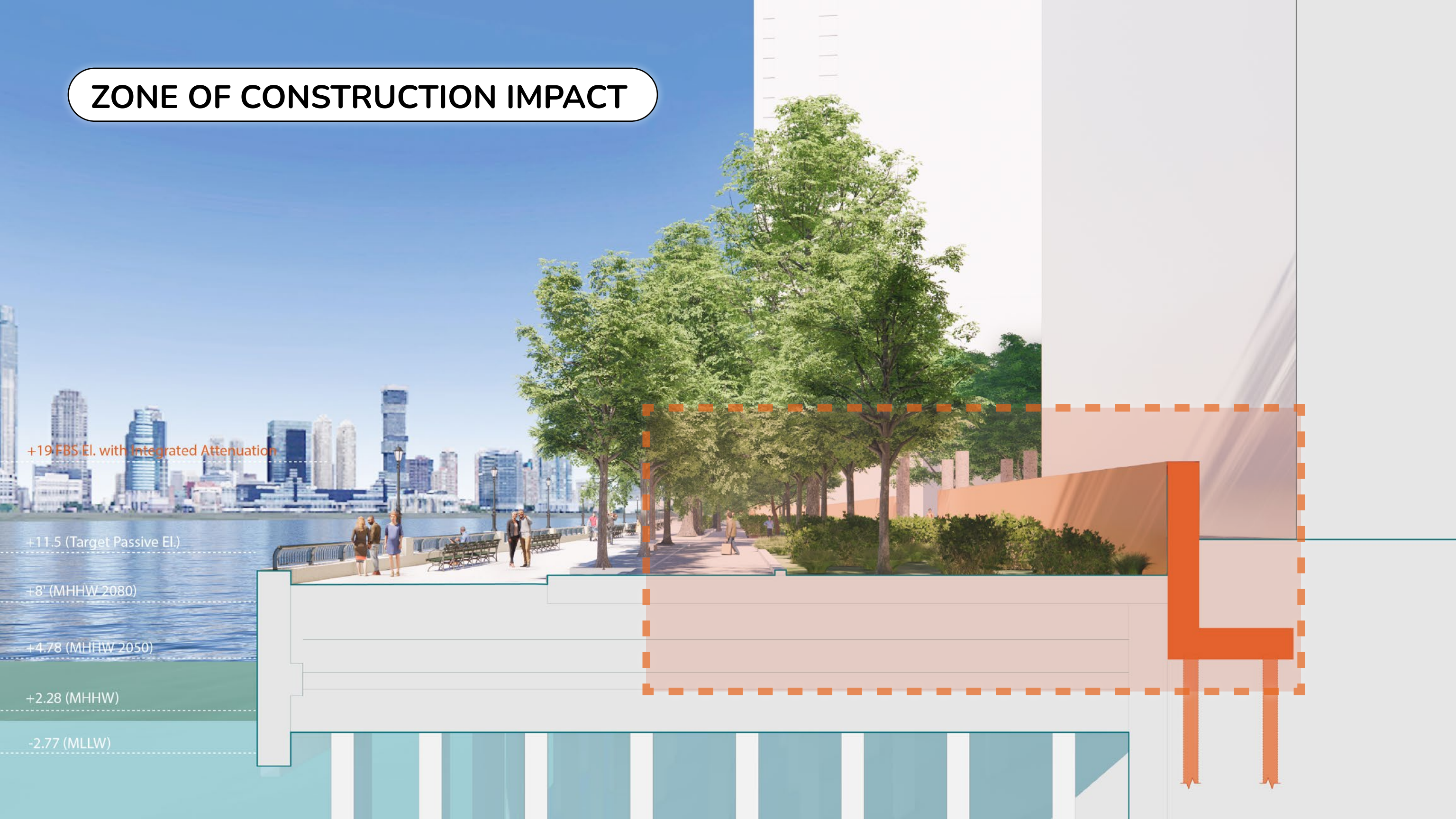
+2.28 (MHHW)

-2.77 (MLLW)



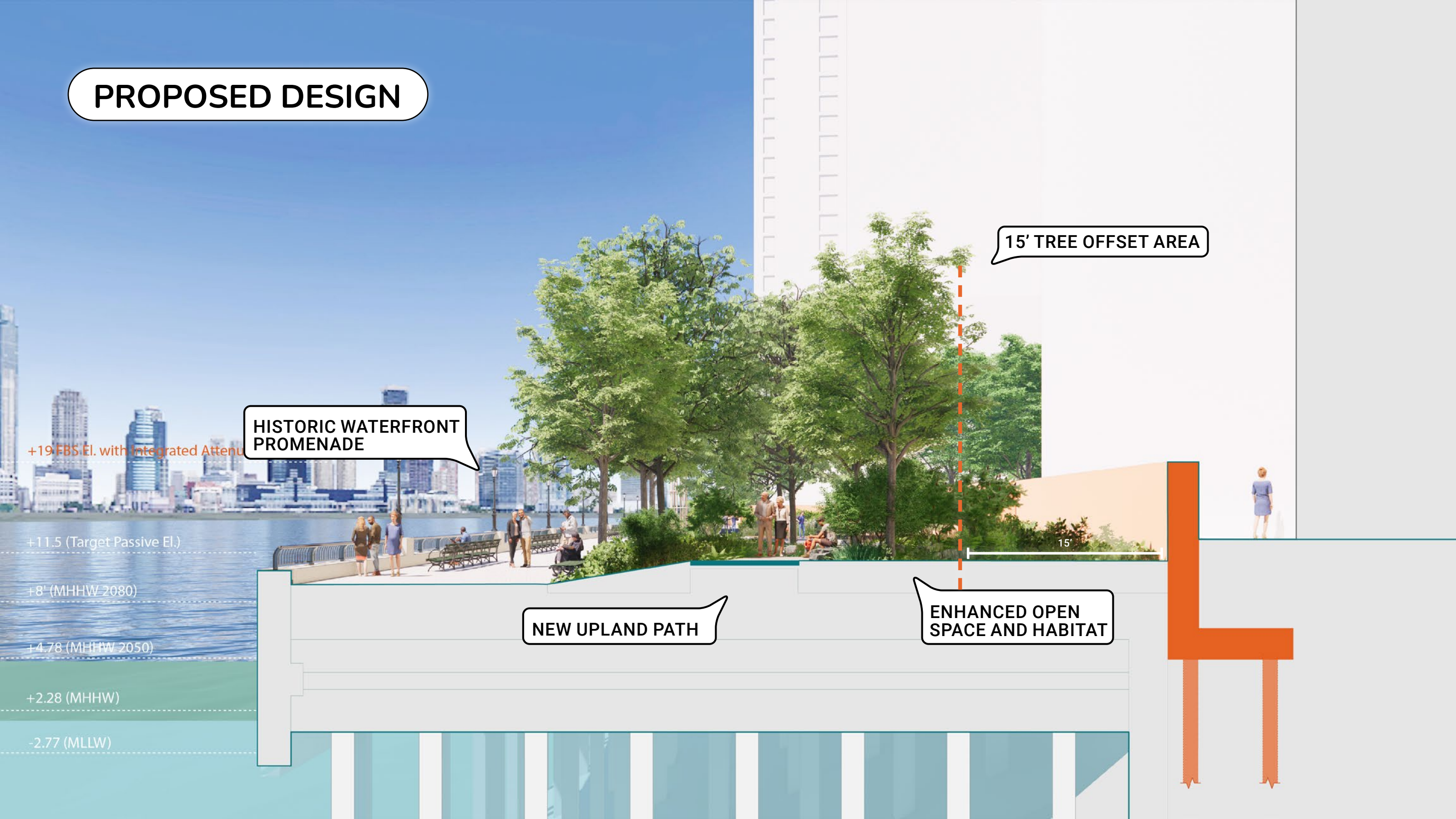


# ZONE OF CONSTRUCTION IMPACT



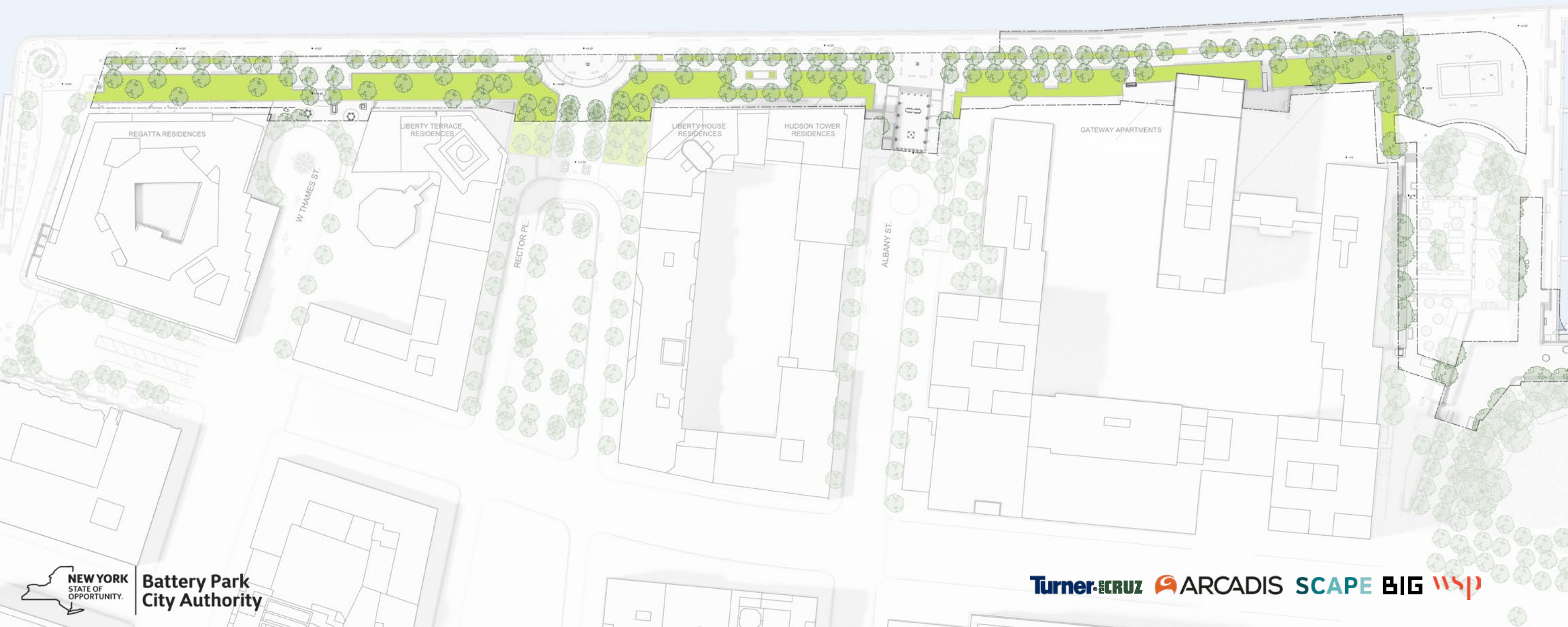


# PROPOSED DESIGN





# Existing Conditions





# Proposed Design

HISTORIC WATERFRONT PROMENADE

ENHANCED OPEN SPACE AND HABITAT

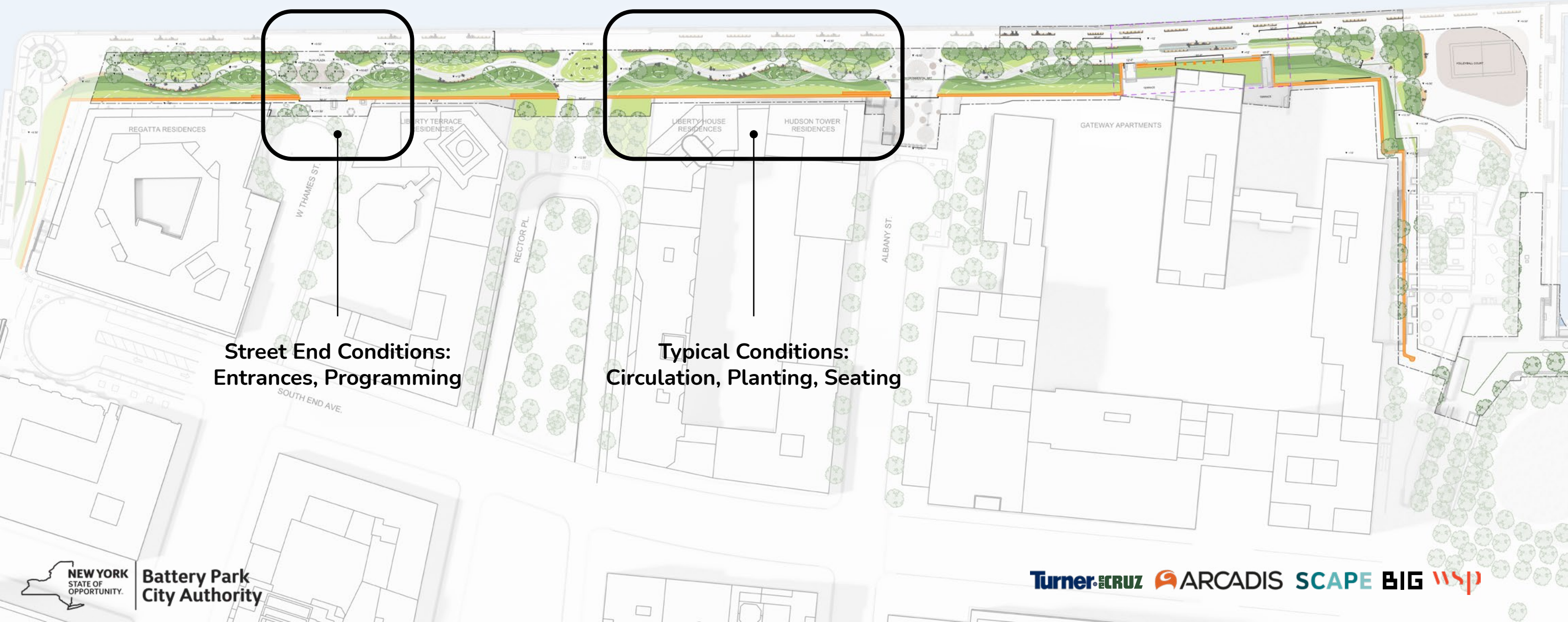
NEW UPLAND PATH

PROGRAMMED STREET-ENDS

Gateway Plaza Area Under Development



# Elements For Discussion



**Street End Conditions:**  
Entrances, Programming

**Typical Conditions:**  
Circulation, Planting, Seating



# Reach 7

ESPLANADE

SOUTH COVE

DAYCARE

CAFÉ

SOUTH END AVE

2ND PLACE

3RD PLACE



## South Cove: Mary Miss, Child Associates, and Cooper Eckstut Associates

“You hear it. Smell it. Get your feet wet...  
I really wanted to make a place that is  
very much a relief from the interior of the  
island. You come to the edge and get a  
sense of the edge.”

*Mary Miss*

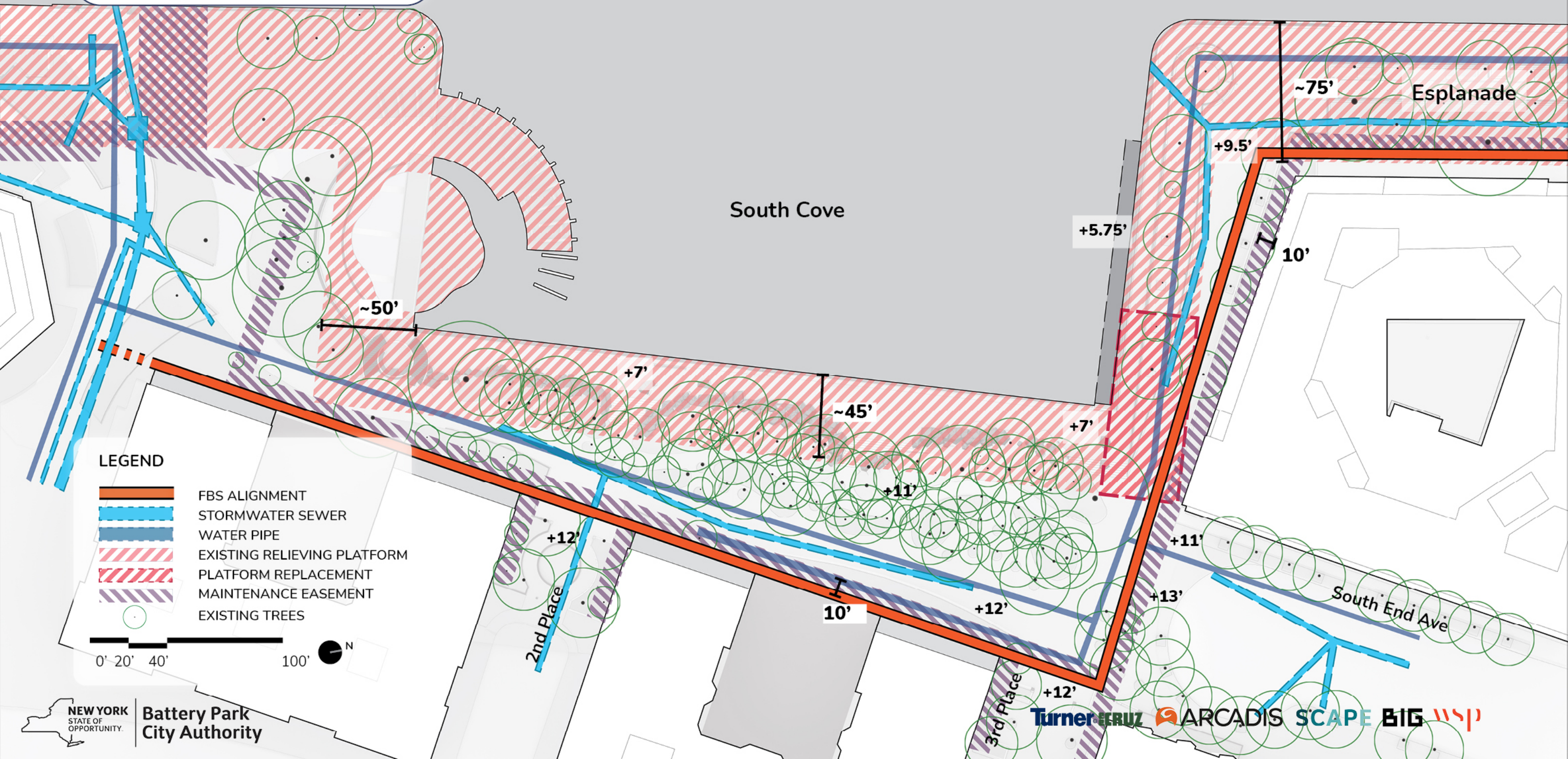


## What We Heard

- Minimize impacts to existing landscape, prioritize creative solutions to preserve “forest walk”
- Maintain the proximity and views to the water
- Prioritize universal accessibility



# Design Constraints





# Alignment & Street Ends



ESPLANADE

DAYCARE

REGATTA  
BUILDING

CAFÉ

SOUTH END AVE

SOUTH COVE PLAZA  
BUILDING

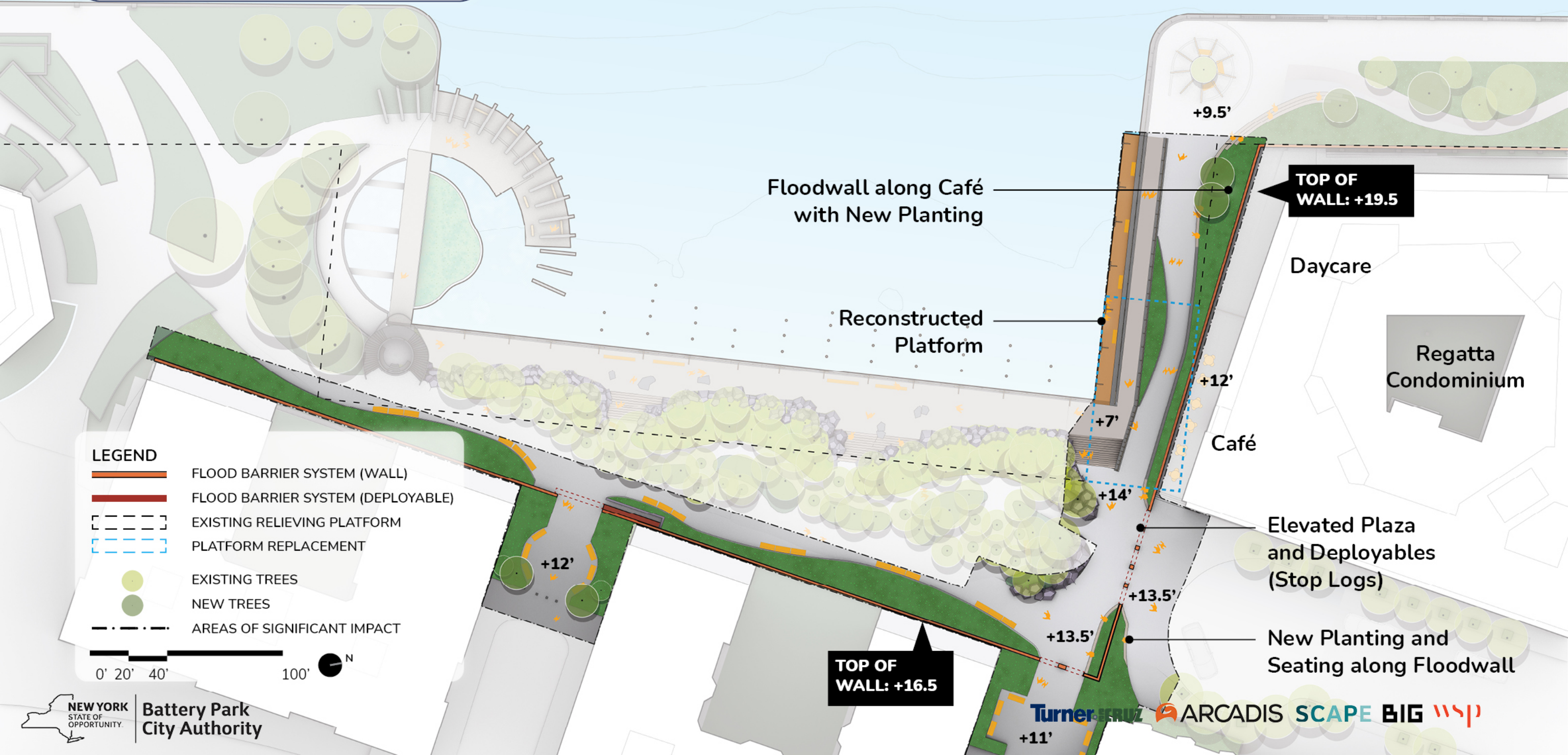
2ND  
PLACE

RIVERWATCH  
BUILDING

3RD  
PLACE



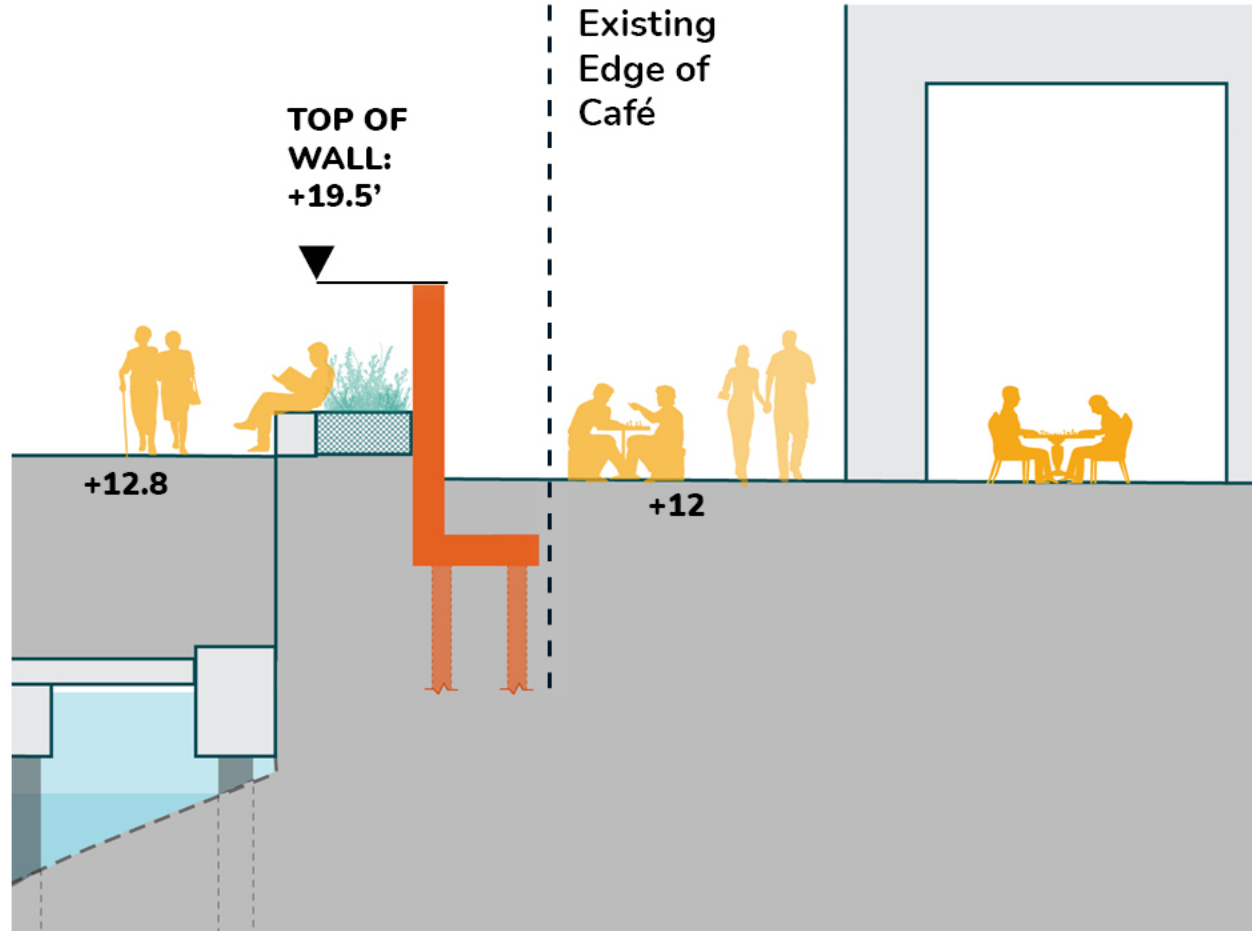
# Flood Wall Alignment



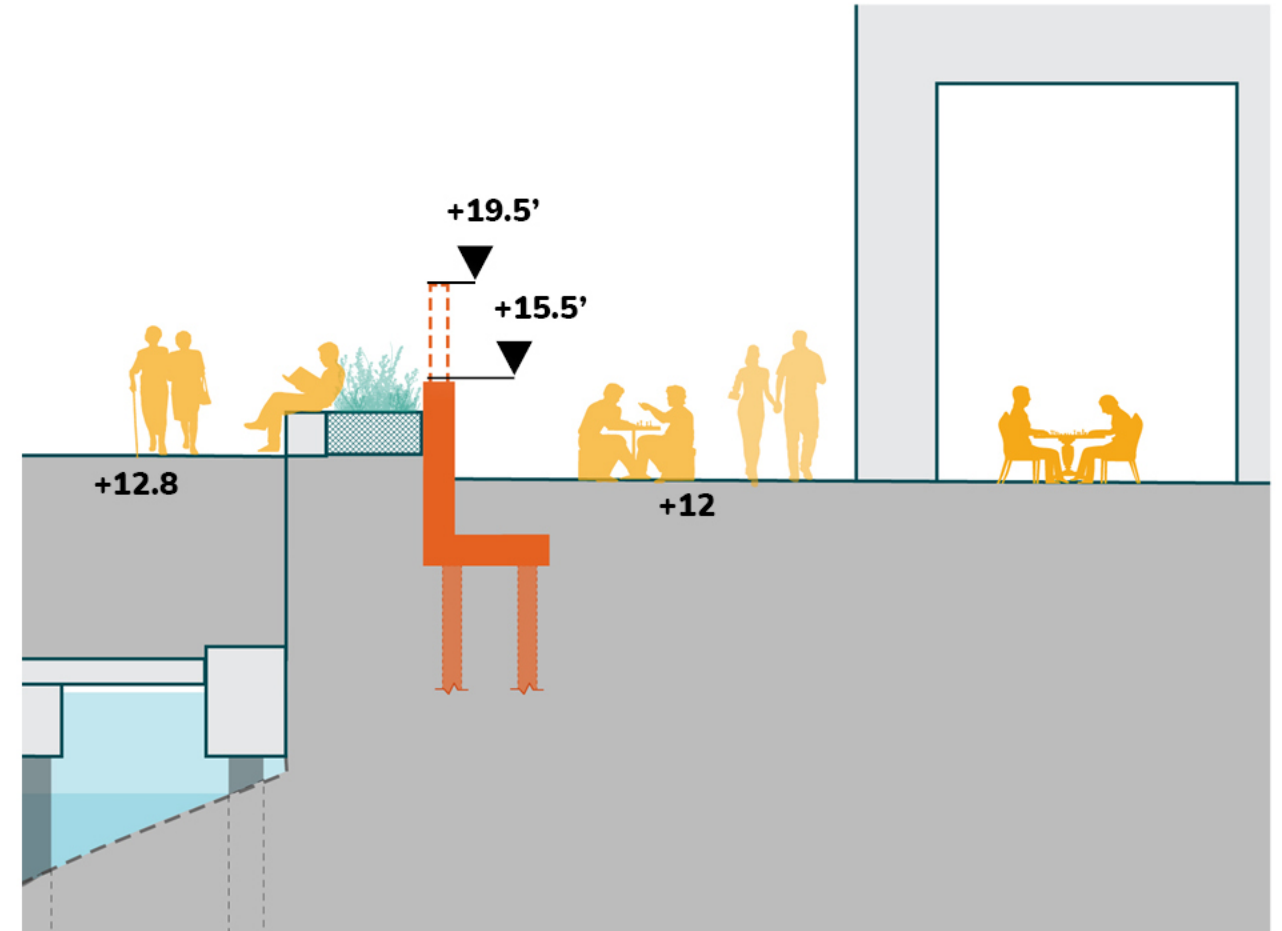
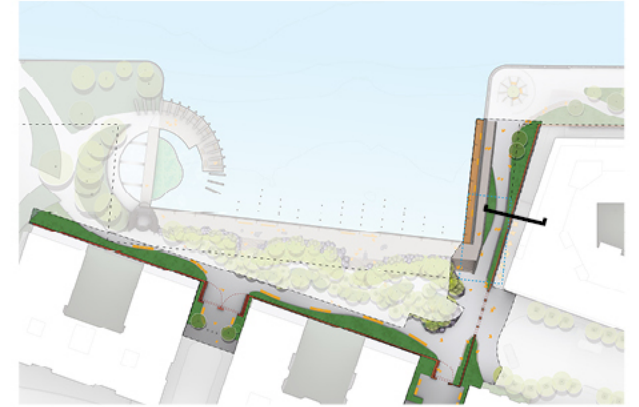


## North Platform Wall

### 1: Full Height Floodwall



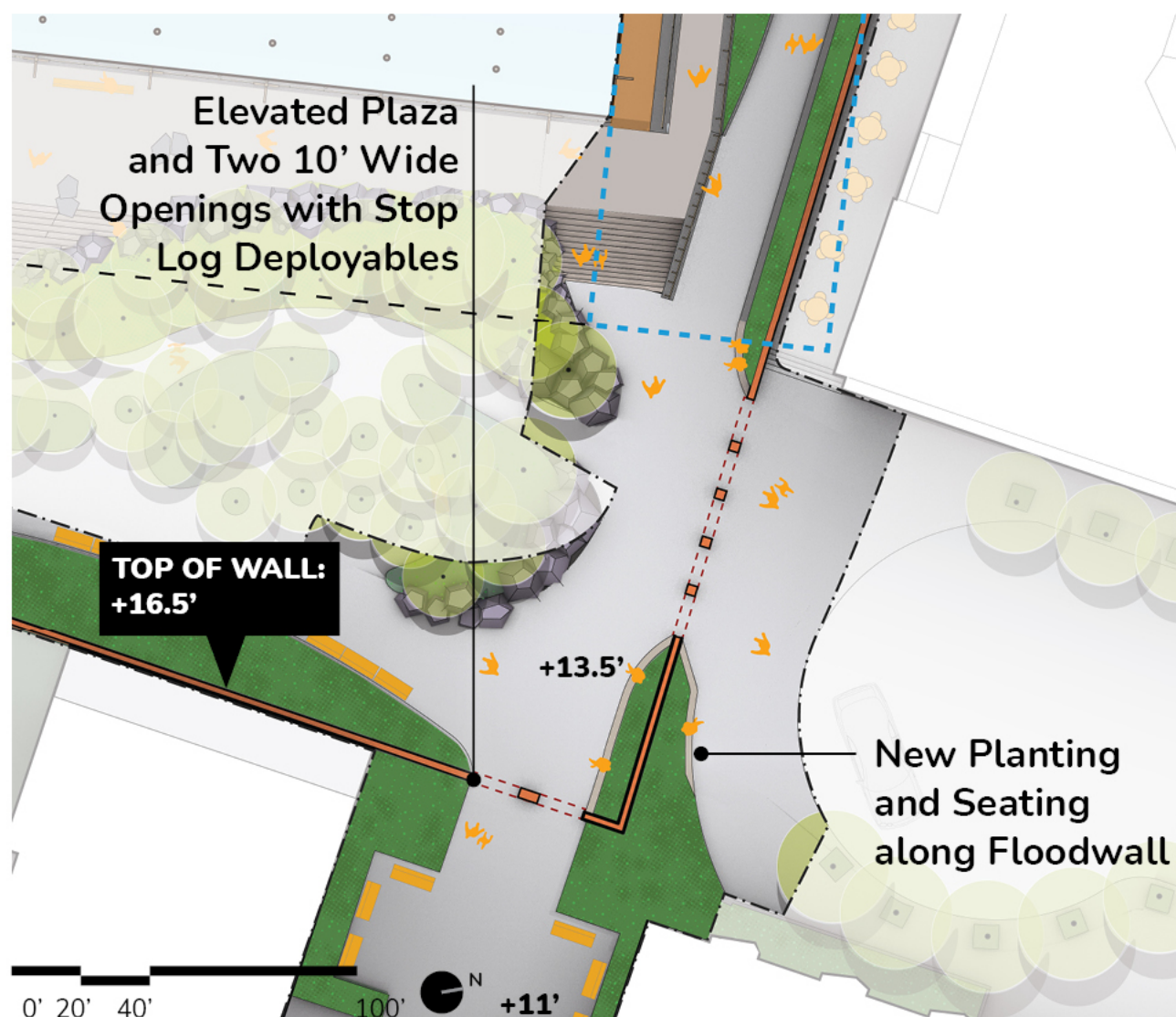
### 2: Partially Deployable Flood Barrier



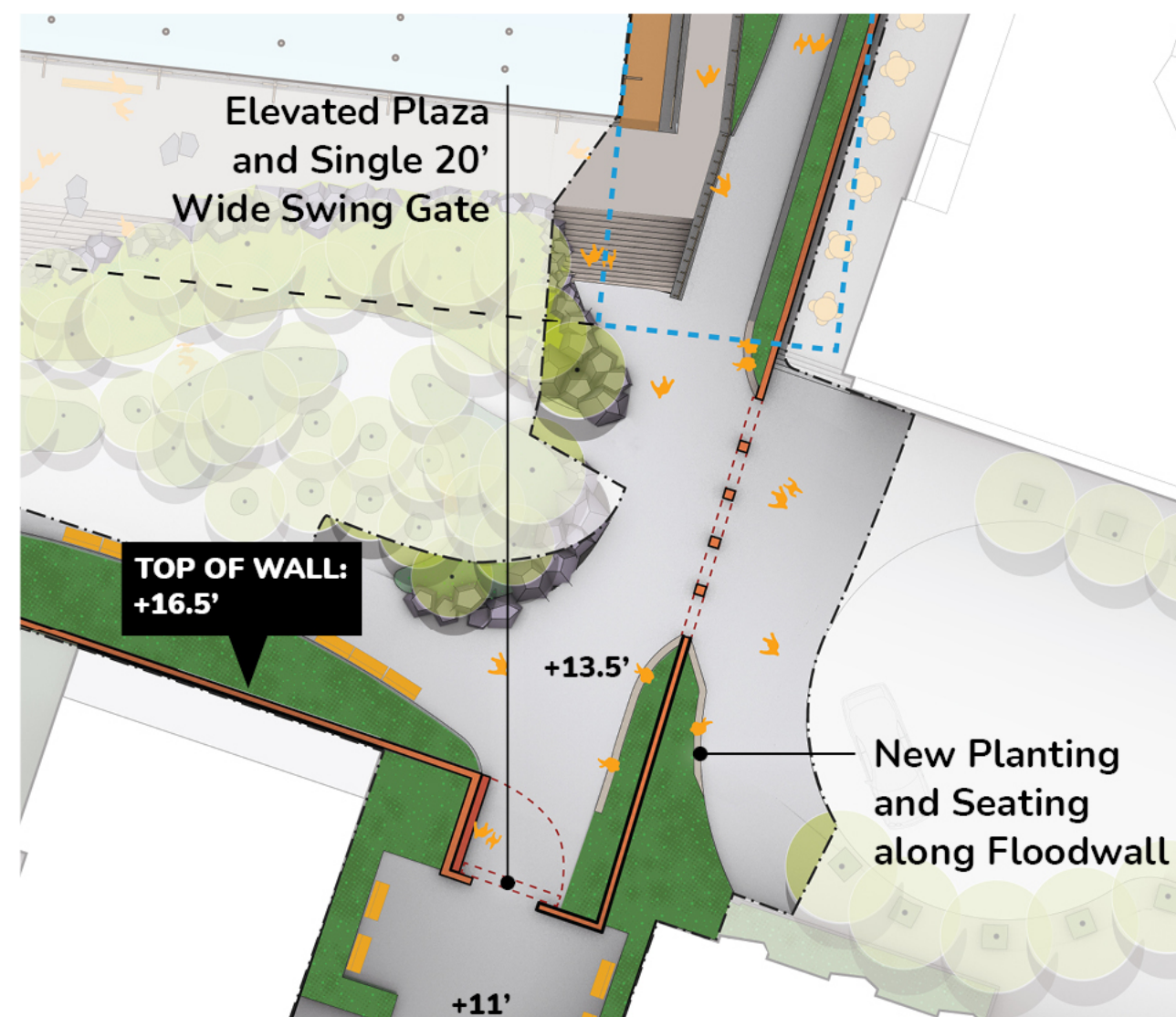
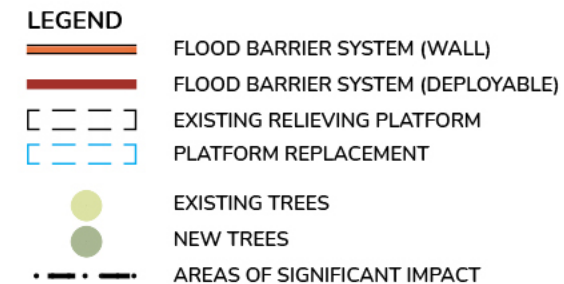


## 3rd Place

### 1: Stop Logs



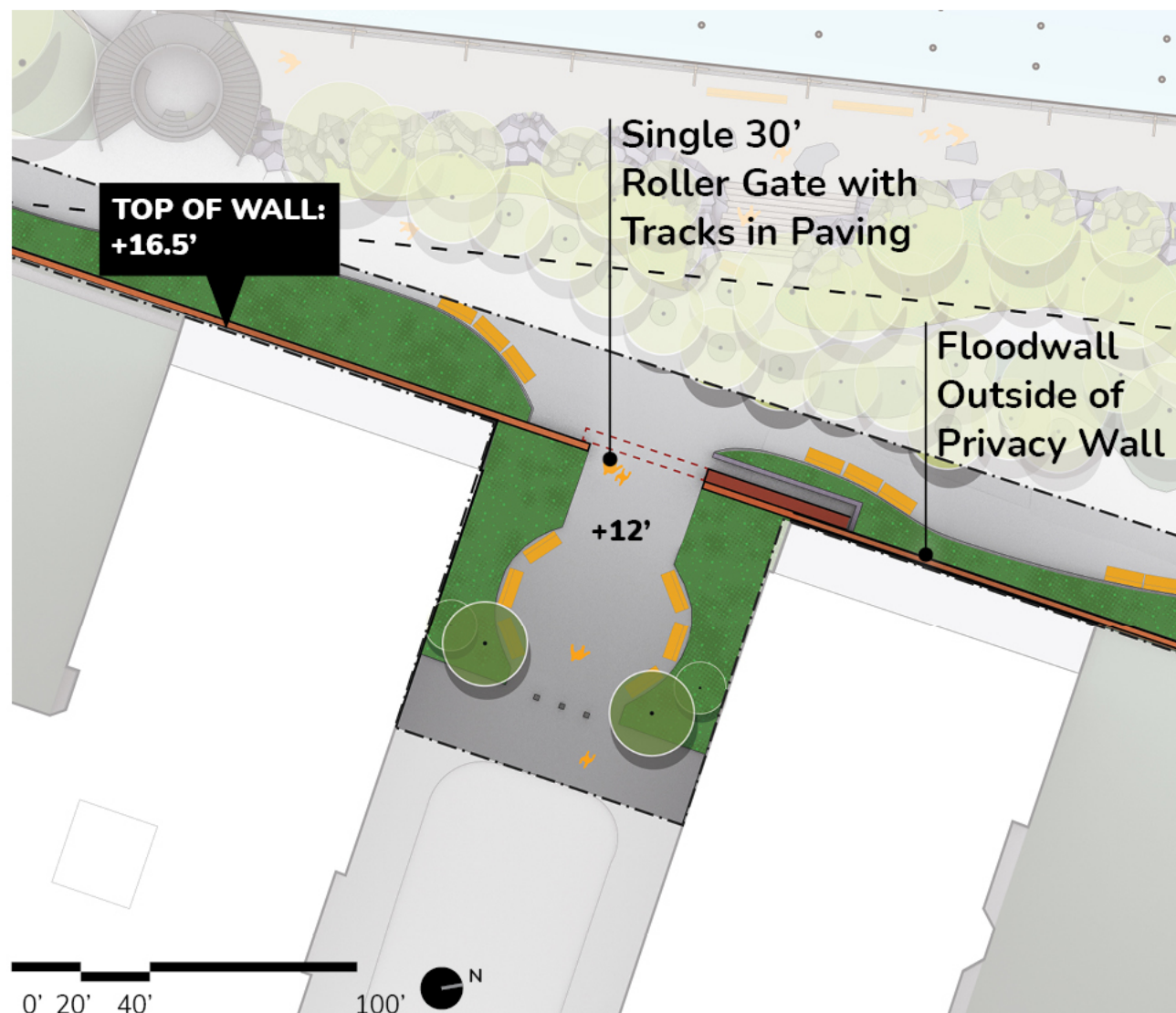
### 2: Swing Gate



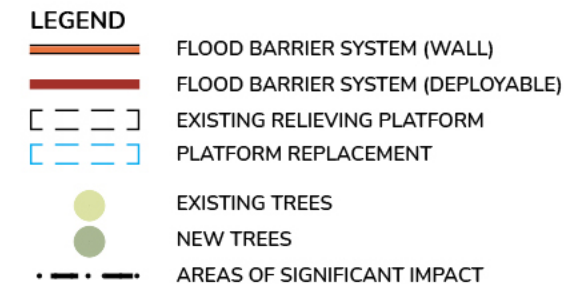
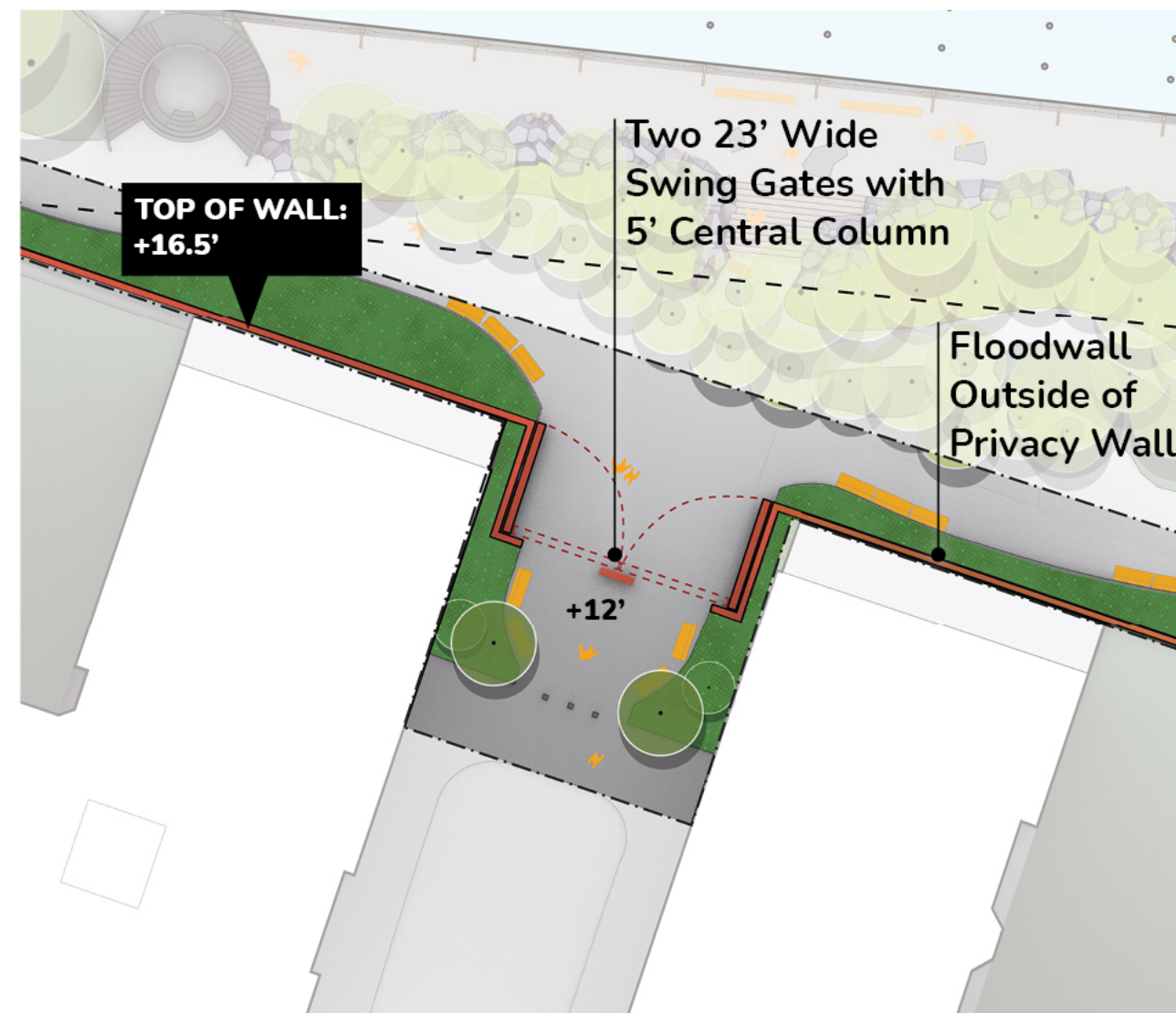


## 2nd Place

### 1: Single Roller

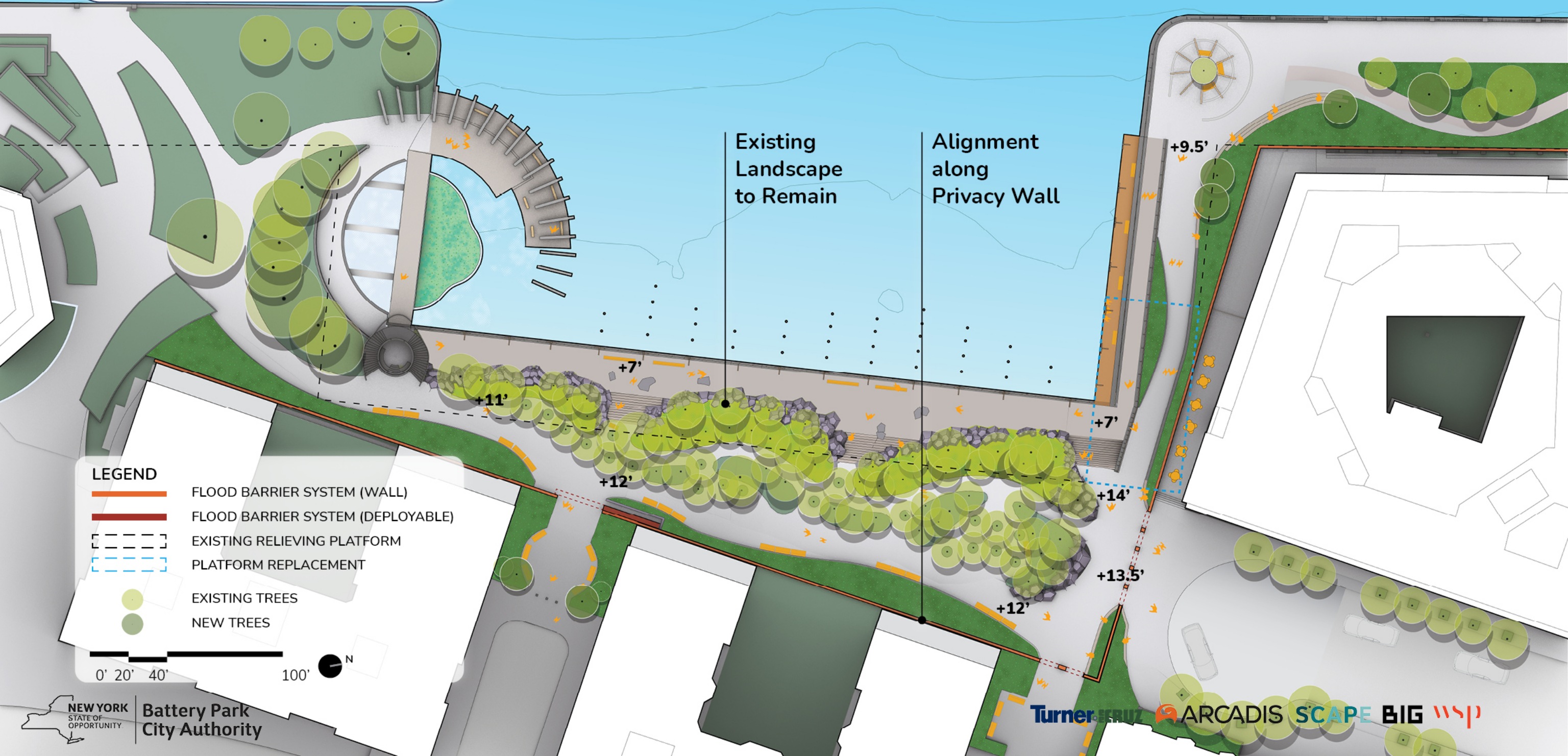


### 2: Double Swing Gate





# Proposed Alignment





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