NORTH/WEST BATTERY PARK CITY RESILIENCY PROJECT

CB1 Battery Park City Committee

January 4, 2024

NEW YORK STATE OF OPPORTUNITY. | Battery Park City Authority

Turner | DeCRUZ | ARCADIS | SCAPE | BIG | WSP

Project Team

CLIENT TEAM:

CLIENT:

NEW YORK STATE OF OPPORTUNITY. | Battery Park City Authority

ADVISORS:

AECOM one architecture

CONSULTANTS:

AKRF

EIS CONSULTANT

DESIGN-BUILD TEAM:

PRIMARY CONTRACT:

Turner. ECRUZ

CONSTRUCTION

CONSULTANT:

ARCADIS

CIVIL / STRUCTURAL ENGINEERING

SUB-CONSULTANTS:

BIG

URBAN DESIGN

SCAPE

LANDSCAPE ARCHITECTURE

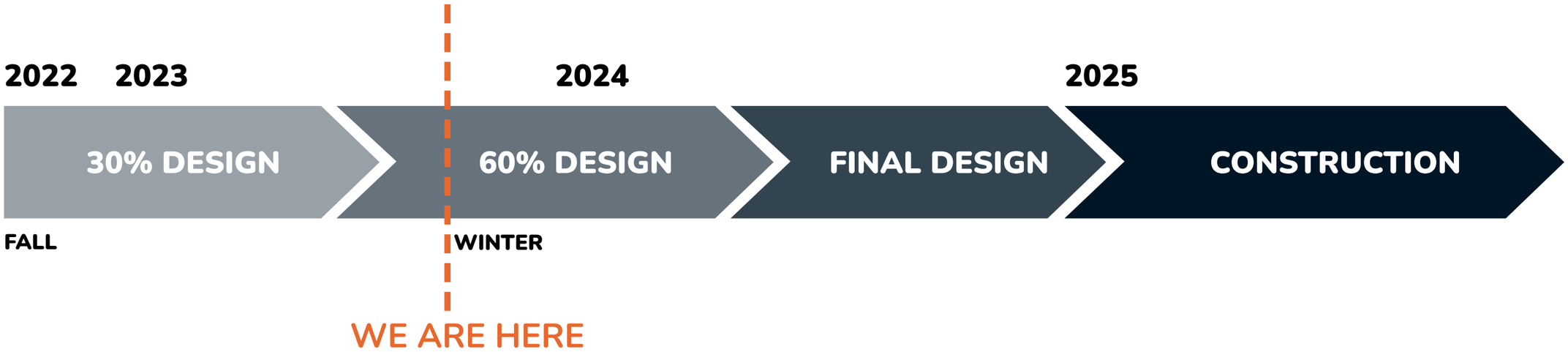
WSP

GEOTECHNICAL

Agenda

1. Project Overview
2. Reach 6
3. Reach 7
4. Discussion

Project Schedule



Precise construction completion dependent upon agency permitting and approvals

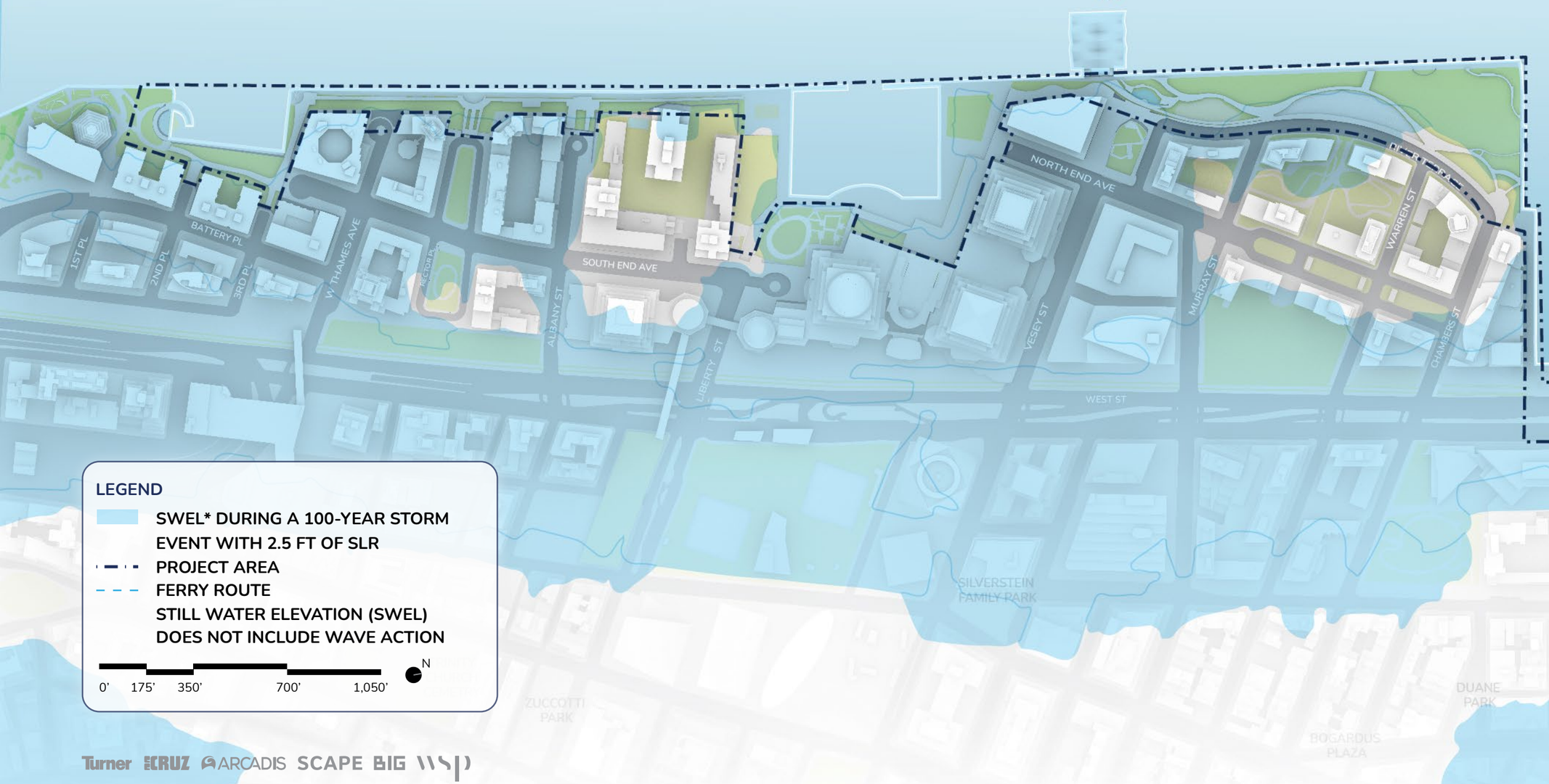
Agency Coordination - Timeline

Turner · PCRUZ
a joint venture

• 30% Design Documents	June 2023
• 60% Design Documents	Spring 2024
• Construction Start	Late 2024/ Early 2025*

Note (*) = dependent on permits.

Future Flood Risk



LEGEND

- SWEL* DURING A 100-YEAR STORM EVENT WITH 2.5 FT OF SLR
- PROJECT AREA
- FERRY ROUTE
- STILL WATER ELEVATION (SWEL) DOES NOT INCLUDE WAVE ACTION

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

Turner CRUZ ARCADIS SCAPE BIG WSP

REACH 6
SOUTH ESPLANADE

HUDSON RIVER

SOUTH ESPLANADE

SOUTH COVE

VOLLEYBALL COURT

REGATTA RESIDENCES

HUDSON TOWERS

KOWSKY PLAYGROUND

LIBERTY TERRACE

RECTOR PARK

LIBERTY HOUSE

GATEWAY APARTMENTS

3RD PL.

W THAMES ST

RECTOR PL.

ALBANY ST

BATTERY PL.

SOUTH END AVE.

3RD PL.

What We Heard: Reach 6

- Protect as many large trees as possible
- Provide equal or additional vegetation
- What will happen to the Art Installations on site? A few select pieces are popular and valued by the community
- Previous proposed design has too much meander and change in elevation
- Where will the openings in the FBS walls be located and how wide will they be?
- Views to the water from the street-ends should be kept
- Programs at street end nodes are nice amenities



Reach 6 Esplanade Plaza | Existing





Reach 6 Esplanade Plaza | Existing

Existing with Flood Barrier Line Overlay

Reach 6 Esplanade Plaza | Proposed

NORTH/WEST BATTERY PARK CITY RESILIENCY PROJECT



Increased Planting and Shading

Top of Wall: +19.5’

Plaza Group Seating

+ 10.00’

+ 9.50’

Preserved Existing Sport Court

Turner ECRUZ ARCADIS SCAPE BIG

Reach 6 Gateway Apartments | Proposed Plan

NORTH/WEST BATTERY PARK CITY RESILIENCY PROJECT



Hudson River

+9.5’

+9.5’

+10.0’

+10.0’

+10.0

TOP OF WALL:
+19.5’

+11

+10.5

+11

+11.3

+11.3

+12

+13

+14

+14.5

Gateway Apartments

4’ DEPLOYABLE GATE (SG604)

15’ ROLLER GATE (SG609)

15’ ROLLER GATE (SG607)

20’ DEPLOYABLE GATE (SG608)

LEGEND

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

0’ 20’ 40’ 100’ N

Turner ECRUZ ARCADIS SCAPE BIG WSP



Reach 6 Gateway Plaza

Ongoing Flood Barrier System Configuration Options



Solid Flood Barrier System



Flood Barrier System with Deployables

Reach 6 Rector Place - Albany Street | Existing



Reach 6 Rector Place - Albany Street | Existing

Existing with Flood Barrier Line Overlay



Reach 6 Rector Place - Albany Street | Proposed



FBS Wall
Materiality under Development

Top of Wall: +19.5’

Forest Seating Nodes

EXISTING TREE

EXISTING TREE

+ 9.50’

Adventure Path

Integrated Wheelchair Spaces

+ 11.50’

Forest Walk

Reach 6 W. Thames Street | Existing



Reach 6 W. Thames Street | Existing

Existing with Flood Barrier Line Overlay



Reach 6 W. Thames Street | Proposed



FBS Wall
Materiality under Development

Top of Wall: +19.5’

8'

+ 11.50’

EXISTING TREE

EXISTING TREE

Public Art TBD**

*** Street Ends Layout Under Review**

****To Be Verified with BPCA As Part of A Broader Public Art Strategy**

Turner CRUZ ARCADIS SCAPE BIG WSP

Reach 6 W. Thames Street | Existing

Existing with Flood Barrier Line Overlay



Reach 6 Regatta Condominium | Proposed Plan



Hudson River

+9.95’

+10’

+9.5’

+9.5’

+11.5’

+12.0’

+11’

+11.5’

TOP OF WALL:
+19.5’

+9.5’

+10’

30’ ROLLER GATE (SG601)

Regatta Residences

Liberty Terrace Residences

W Thames St.

Turner CRUZ ARCADIS SCAPE BIG WSP

Reach 6 View from South Corner of Regatta Bldg | Existing



Reach 6 View from South Corner of Regatta Bldg | Existing

Existing with Flood Barrier Line Overlay



Reach 6 View from South Corner of Regatta Bldg | Proposed

NORTH/WEST BATTERY PARK CITY RESILIENCY PROJECT



Preserved Existing Esplanade

Green Buffer

FBS Wall
Materiality under Development

Top of Wall:
+19.5’

Adventure Path

EXISTING TREE

EXISTING TREE

EXISTING TREE

EXISTING TREE

+ 11.50’

Forest Walk

+ 9.90’

Turner CRUZ ARCADIS SCAPE BIG WSP

Reach 6 Entrance Nodes | Program



NATURE PLAY

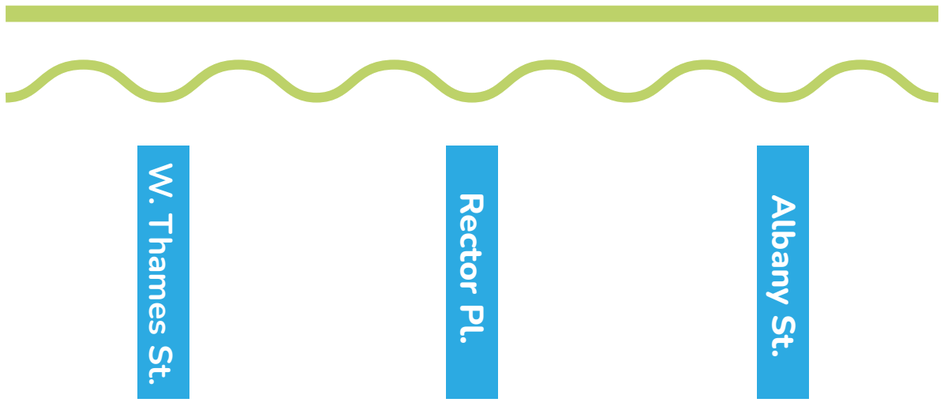


GATHER



LEISURE

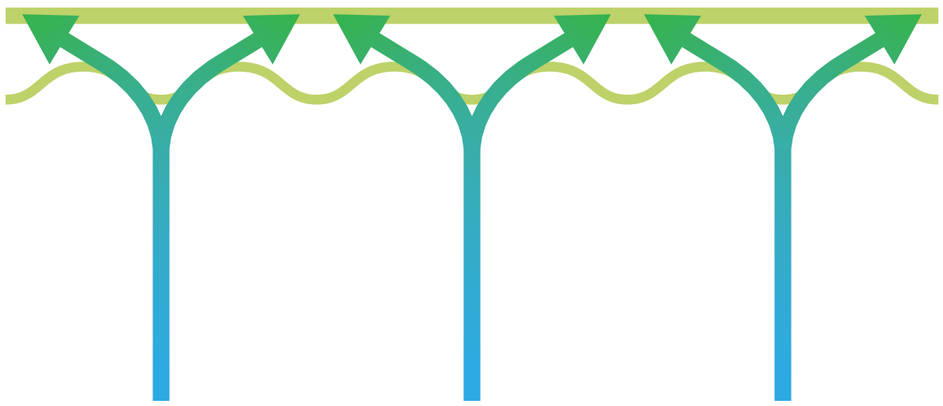
Reach 6 Entrance Nodes | Concept



PARK & CITY

No connection between the city and Esplanade

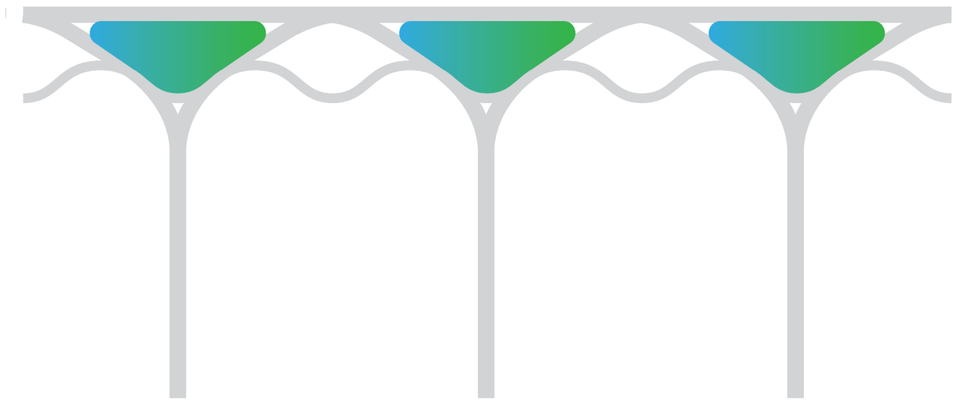
Reach 6 Entrance Nodes | Concept



SEW

Extend the City streets to sew into the Esplanade

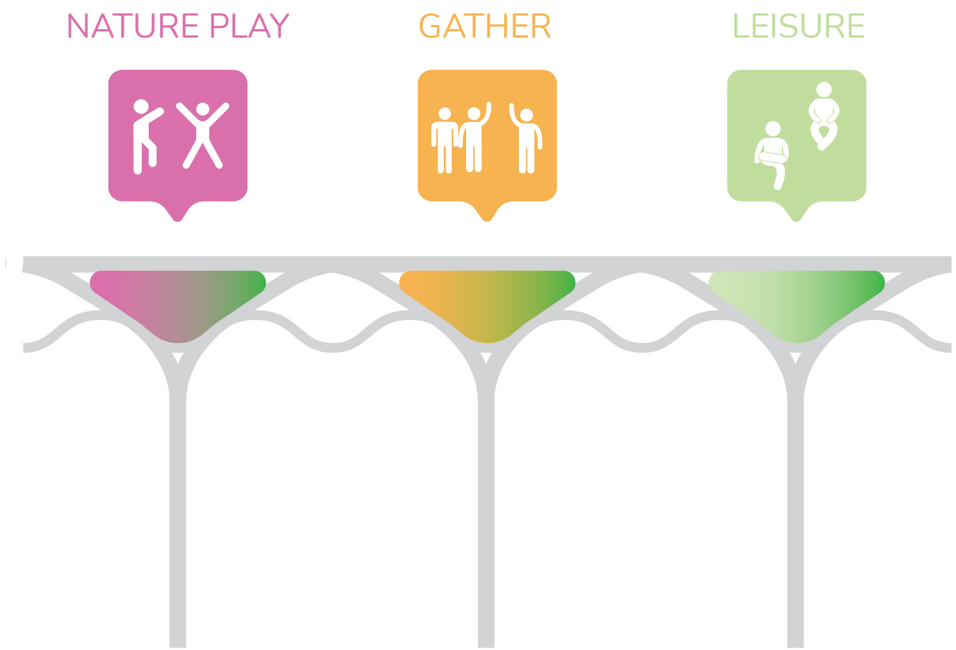
Reach 6 Entrance Nodes | Concept



NODES

A welcoming entrance node is formed at each intersection of park and street. Each creates hierarchy and variance within the park

Reach 6 Entrance Nodes | Concept



PROGRAM

Each node programmatically varies in response to its connection to the neighbourhood and user need.

Reach 6 Entrance Nodes | Program Locations

NATURE PATH

Nature Play

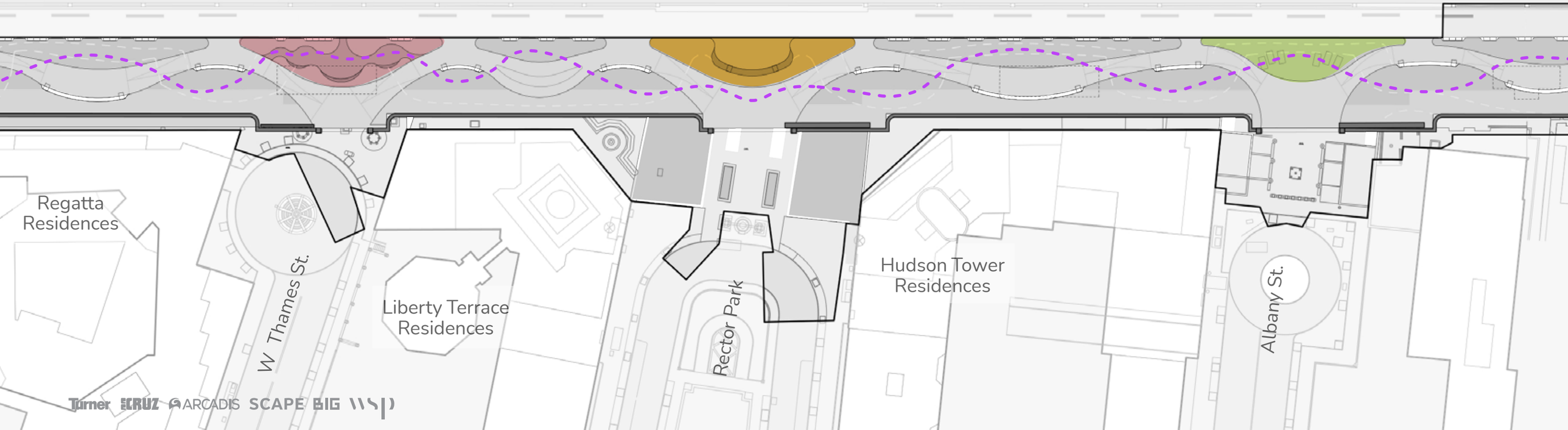


Conversation Room



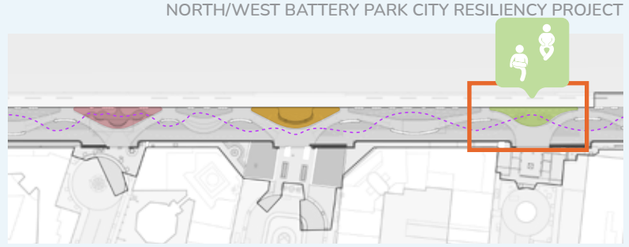
Leisure Lawn





Reach 6 Entrance Nodes | Leisure Lawn

Albany Street



Hudson River

+9.5

PROGRAM RESPONDS TO EXISTING FLEXIBLE SPACE AND LACK OF GREENERY

+10

+9.5

+11

+9.5

+11

SUN SHOWER DECKS

+11

+12

+11.5

GENTLE SLOPING LAWN

+11

+12

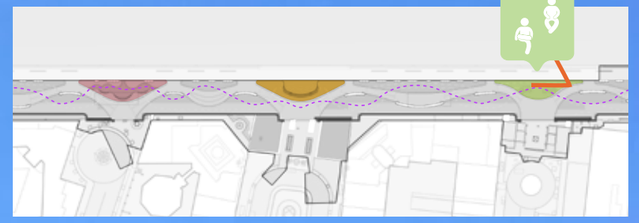
Hudson Tower

Albany St.

Gateway Apartment

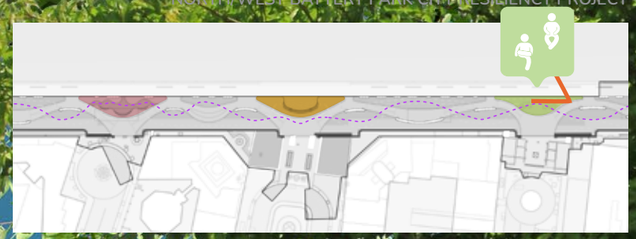
Reach 6 Entrance Nodes | Leisure Lawn

Albany Street - Existing



Reach 6 Entrance Nodes | Leisure Lawn

Albany Street - Proposed



FBS Wall
Materiality under Development

Top of Wall: +19.5’

EXISTING TREE

EXISTING TREE

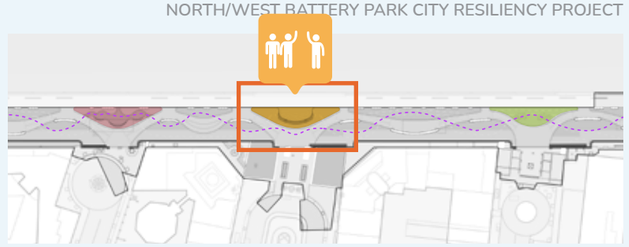
Sun Shower Decks

Picnic Lawn

Reach 6 Entrance Nodes | Conversation Room

Rector Place

NORTH/WEST BATTERY PARK CITY RESILIENCY PROJECT



Hudson River

SEMI CIRCULAR GEOMETRY
MIMIC EXISTING CONDITION

OPEN PLAZA SPACE
IS FULLY ACCESSIBLE

+9.5'

+9.5'

+9.5'

+9.5'

+11'

+11'

+11.5'

+11'

Liberty Terrace

Rector Place

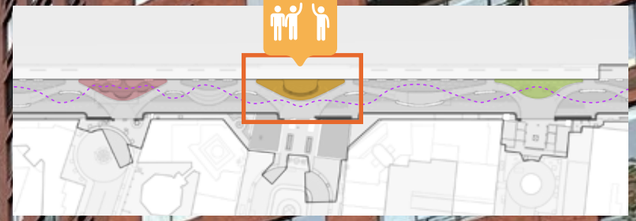
Liberty House

50' ROLLER
GATE (SG602)

Turner CRUZ ARCADIS SCAPE BIG WSP

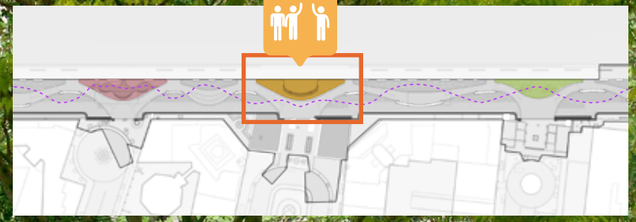
Reach 6 Entrance Nodes | Conversation Room

Rector Place - Existing



Reach 6 Entrance Nodes | Conversation Room

Rector Place - Proposed



Green Buffer

Wheelchair Spaces

Large Communal Bench

FBS Wall
Materiality under Development

Top of Wall: +19.5’

+ 11.50’

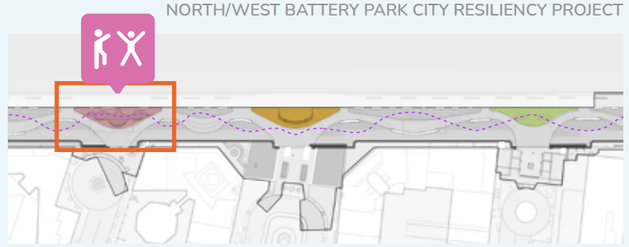
Wooden Plaza Deck

+ 9.50’

Reach 6 Entrance Nodes | Nature Play

W Thames St.

NORTH/WEST BATTERY PARK CITY RESILIENCY PROJECT



Hudson River

+9.5'

RESTRICTED ACCESS
OFF OF ESPLANADE

+9.5'

ENTRANCES
OFF OF PATH

+9.5'

+10.8'

INTEGRATED SEATING

+9.5'

ENTRANCES
OFF OF PATH

PROGRAM INSPIRED BY
PROXIMITY TO DAYCARE

+12'

+11.5'

+12'

+11'

Regatta Residence

Liberty Terrace

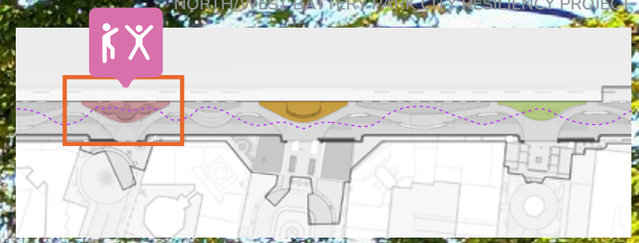
30' ROLLER
GATE (SG601)

W Thames St.

Turner CRUZ ARCADIS SCAPE BIG WSP

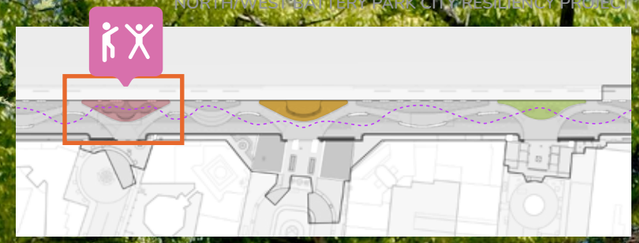
Reach 6 Entrance Nodes | Nature Play

W Thames St. - Existing



Reach 6 Entrance Nodes | Nature Play

W Thames St. - Proposed



Open to Water View

Up-Cycled Wood
Play Structures

EXISTING TREE

+ 9.50’

EXISTING TREE

Green Buffer

Integrated Seating

Engineered Wood Fiber

+ 11.50’

REACH 7
SOUTH COVE

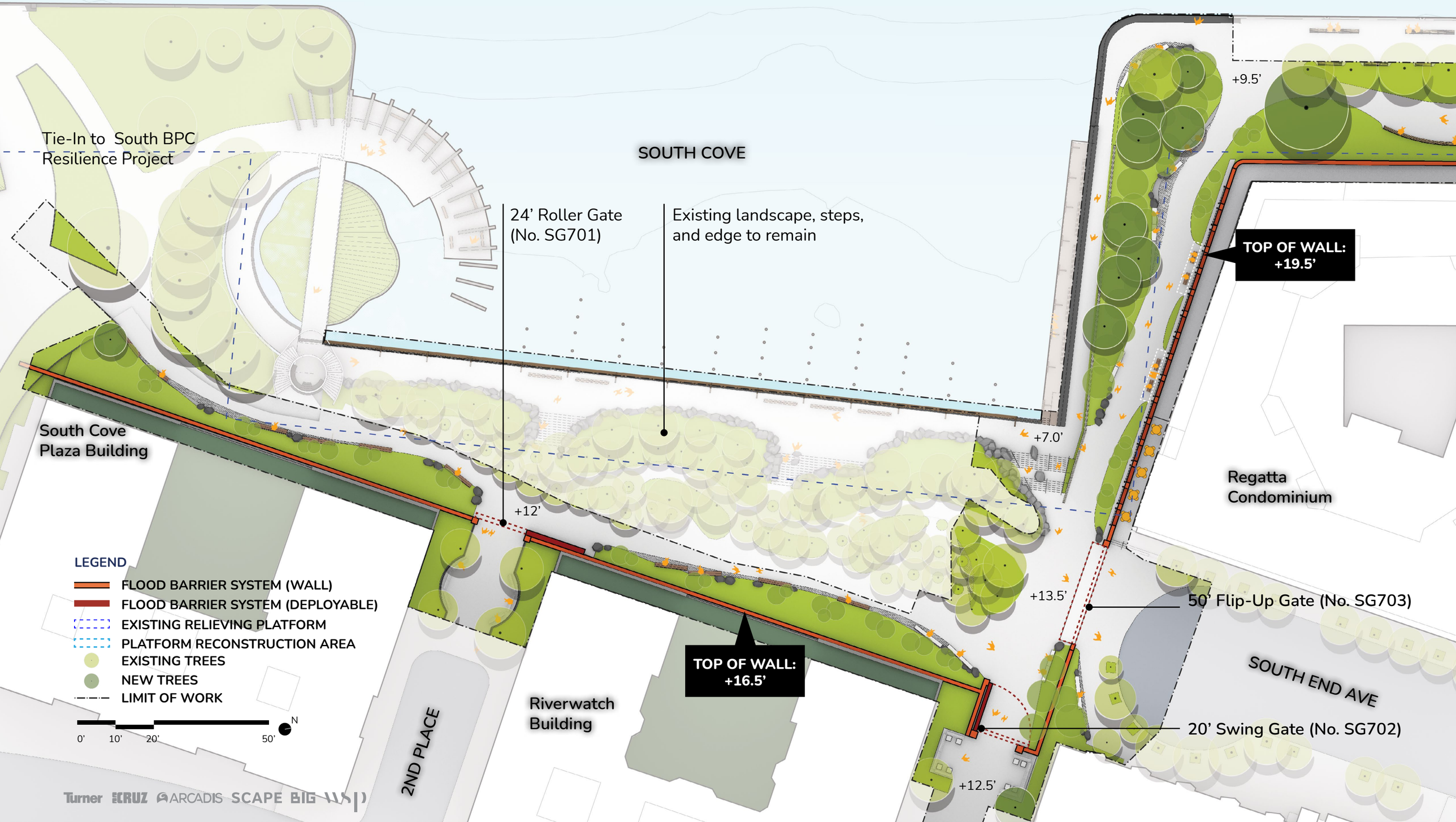

SOUTH COVE
Esplanade
Montessori School
Regatta Condominium
Café
South Cove Plaza Building
Riverwatch Building
2ND PLACE
3RD PLACE
SOUTH END AVE

What We Heard: South Cove

- Importance of protecting existing grove and the feel of a “forest walk”
- Appreciation for quiet, contemplative seating areas along the water’s edge and further inland
- Importance of preserving views from street ends out to the river
- Interest in maintaining, and if possible, expanding, circulation areas to avoid pinch points



South Cove | Plan



Turner CRUZ ARCADIS SCAPE BIG

South Cove | Aerial View

Proposed

EXISTING TREE GROVE

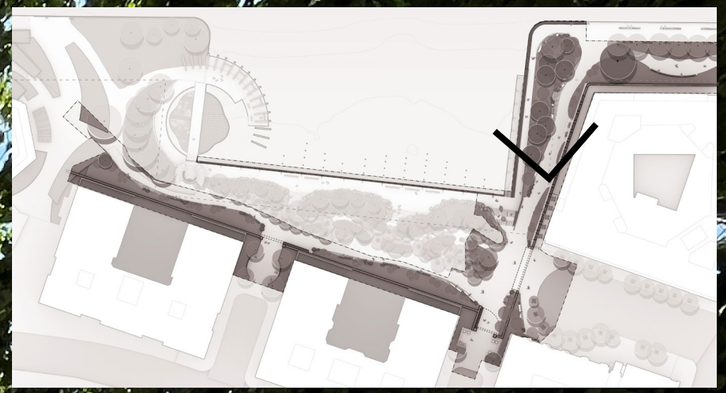
New Planting along Edge

In-Water Habitat Modules

Existing Wood Deck to Remain

South Cove Regatta Area | View West

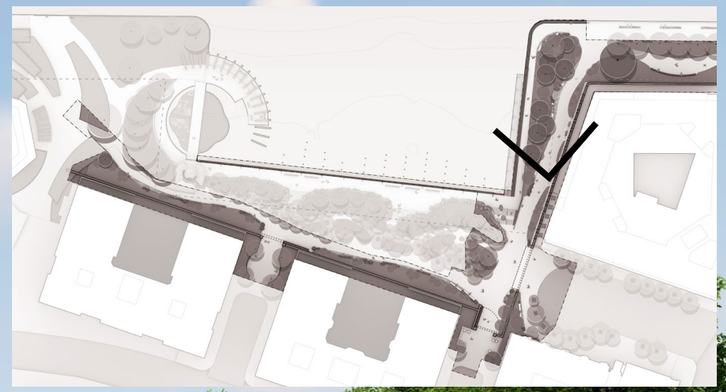
Existing



+ 10.00’

South Cove Regatta Area | View West

Proposed



Statue of Liberty, Beyond

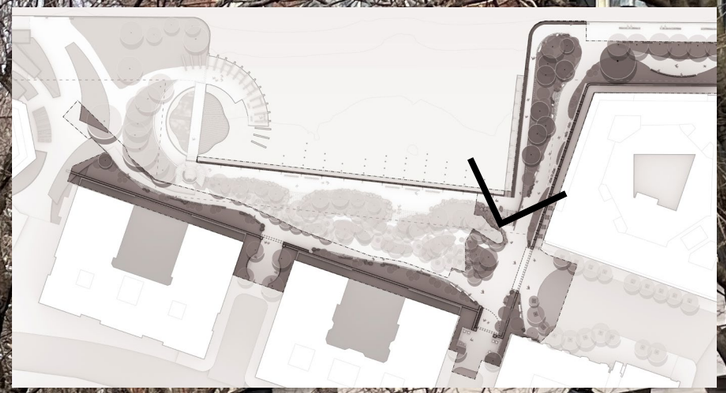
Reclaimed Stone Seating Blocks

New Corner Grove

+ 10.00’

South Cove | View of Lower Ramp

Existing



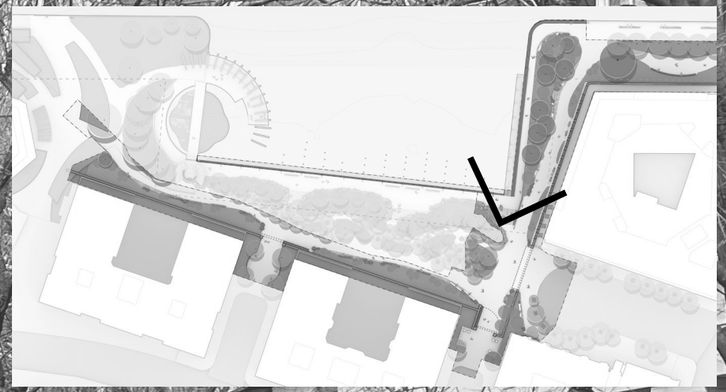
+ 9.50’

+ 5.75’

+ 7.00’

South Cove | View of Lower Ramp

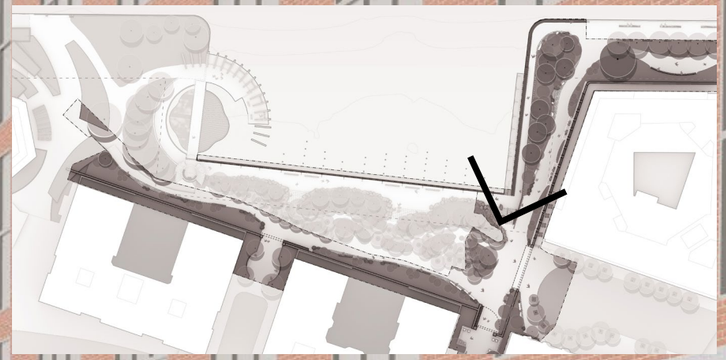
Existing with Flood Barrier Line Overlay



FBS Wall

South Cove | View of Lower Ramp

Proposed



Existing Wood Deck to Remain

New Planting along Edge

Climbing vines

Textured Wall with Storm Elevation Markers

Top of Wall: +19.5’

FBS Wall
Materiality under Development

+ 9.50’

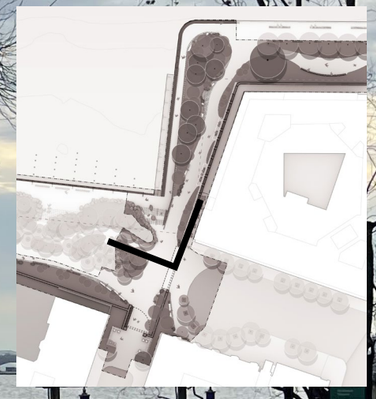
+ 5.75’

+ 7.00’

+ 13.00’

South End Avenue | View from Street

Existing



+ 12.00’

Proposed

EXISTING TREE GROVE

Flip-up deployable concealed in paving

Top of Wall: +19.5’

6’

+ 13.50’

3rd Place | View from Street

Existing



+ 13.00’

Proposed

EXISTING TREE

EXISTING TREE GROVE

Top of Column: +17.5’

Top of Wall: +16.5’

+ 13.25’

2nd Place | View from Park

Existing



Proposed

EXISTING TREE

EXISTING TREE

EXISTING TREE

Top of Column: +17.5’

Top of Wall: +16.5’

4.5’

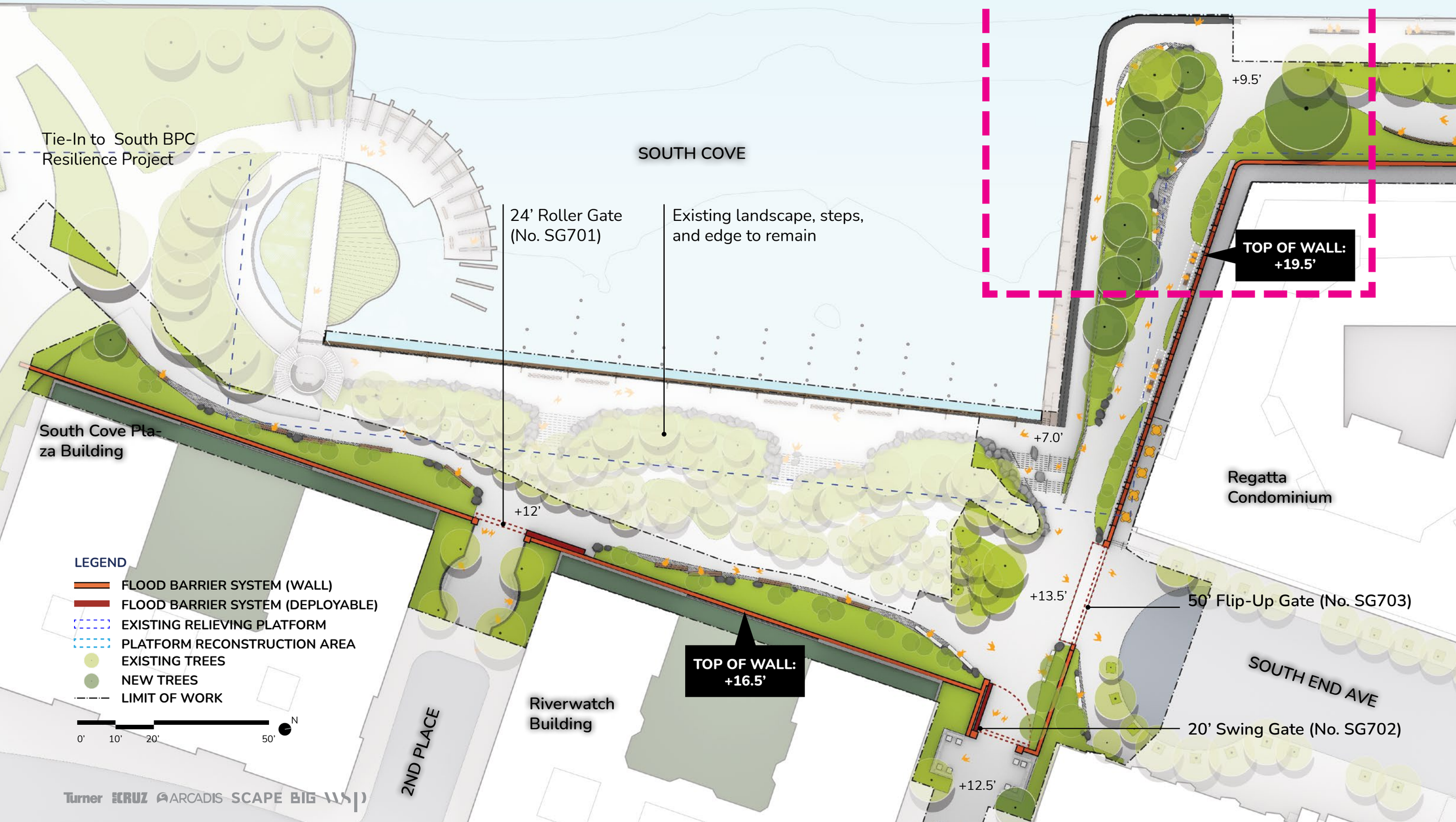
5.5

+ 12.00’

REACH 7
CORNER PERGOLA


SOUTH COVE
Esplanade
Montessori School
Regatta Condominium
Café
South Cove Plaza Building
Riverwatch Building
2ND PLACE
3RD PLACE
SOUTH END AVE

South Cove | Plan



Existing Conditions at Corner of Reaches 6 and 7



View looking south



View looking west

Plan Views

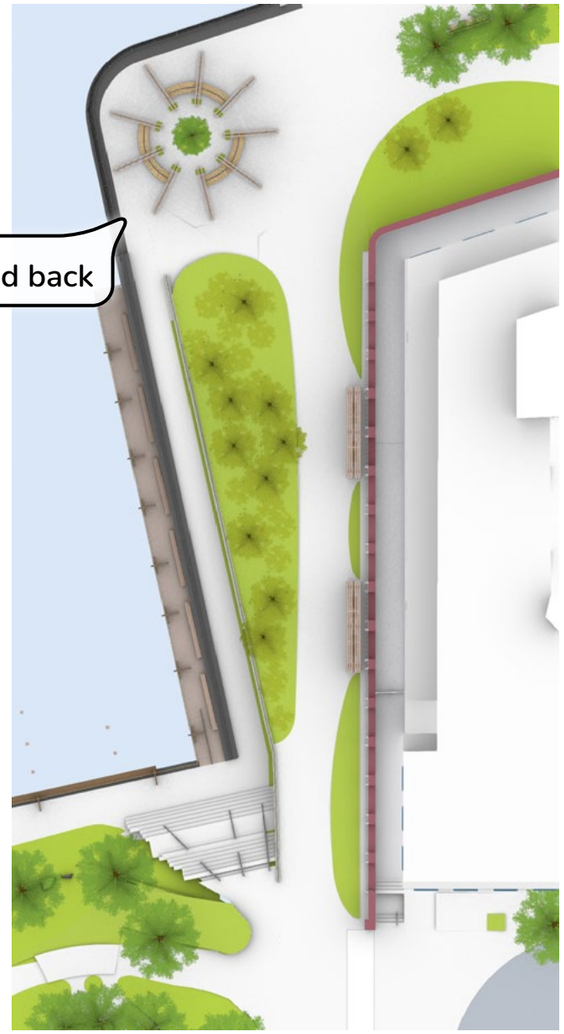
40% Proposed Design



Total area of new planting along edge: ~4,460 SF

New trees added: 15

Revised to Maintain Pergola

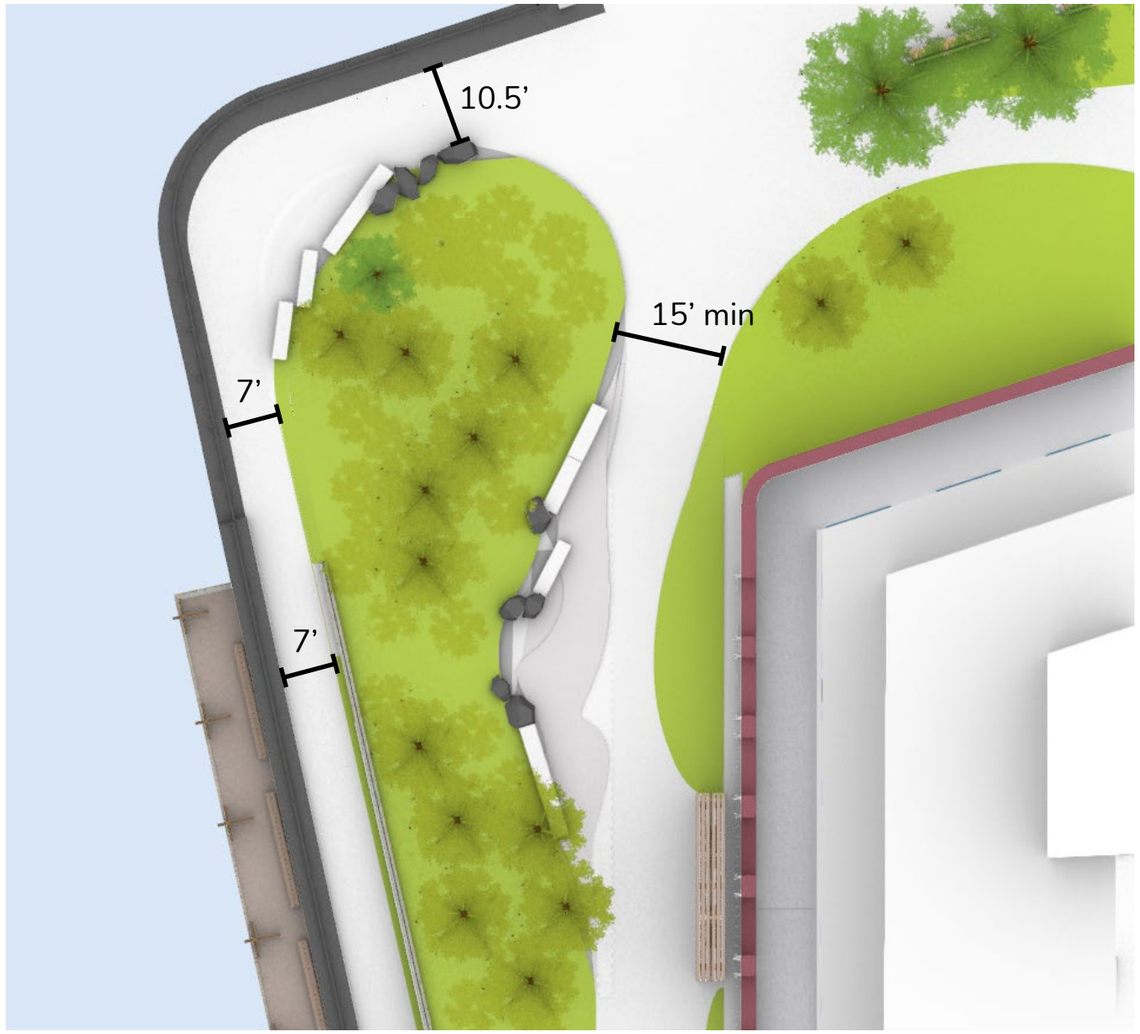


Total area of new planting along edge: ~2,940 SF

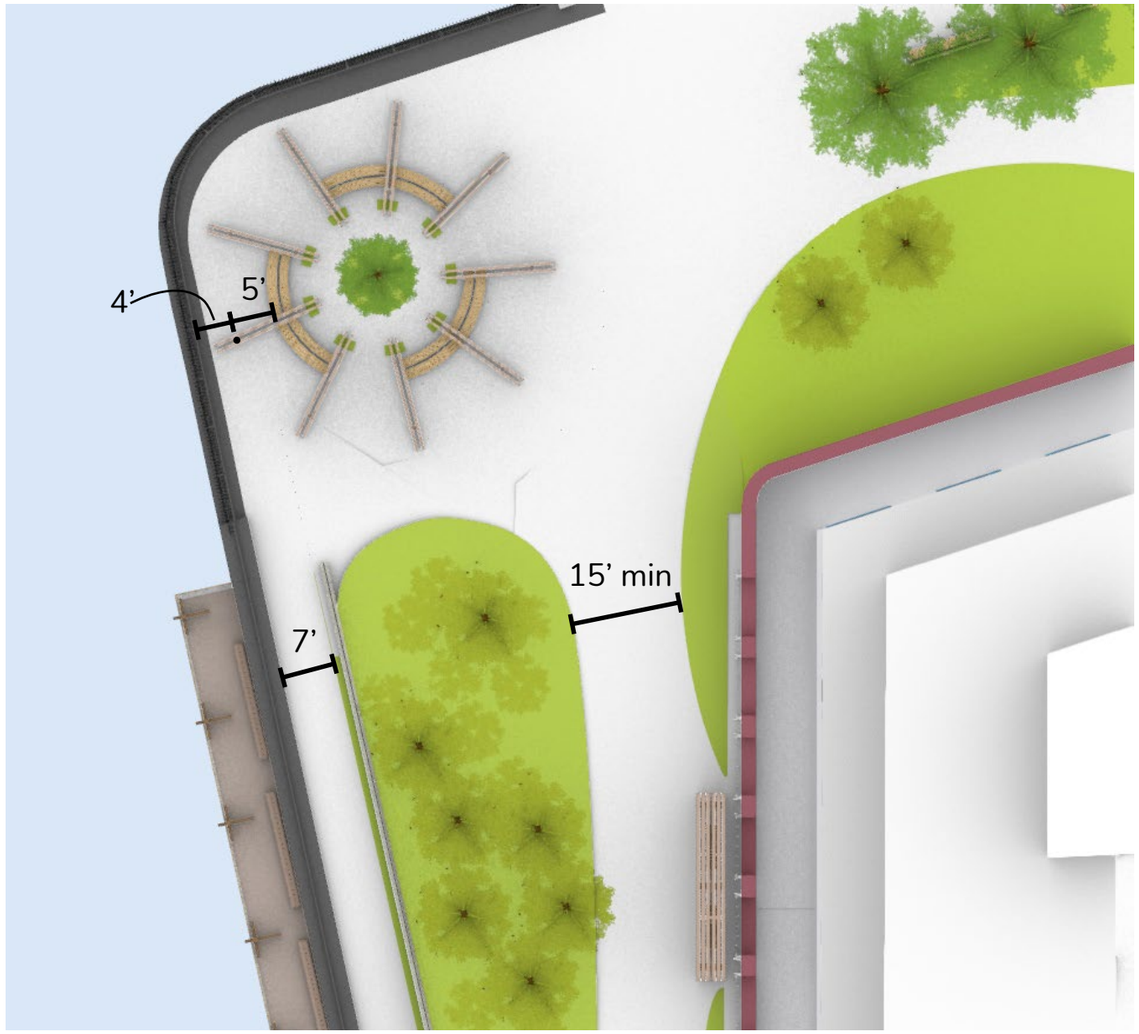
New trees added: 10

Plan Views

40% Proposed Design (Expanded Planting)



Revised to Maintain Pergola




Pergola Maintained
View from Reach 6
Open views to harbor
Battery Park City Authority
Turner
CRUZ
ARCADIS
SCAPE
BIG
WSP

Expanded Planting (40%)

View from Reach 6



Battery Park City Authority

Turner Cruz ARCADIS SCAPE BIG WSP

Pergola Maintained

View from Ramp to Lower Level



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Turner CRUZ ARCADIS SCAPE BIG WSP

Expanded Planting (40%)

View from Ramp to Lower Level



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Turner ECRUZ ARCADIS SCAPE BIG WSP

Pergola Maintained

View East along Regatta Wall



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Turner CRUZ ARCADIS SCAPE BIG WSP

Expanded Planting (40%)

View East along Regatta Wall



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Turner · DE CRUZ ARCADIS SCAPE BIG WSP

Pergola Maintained

Edge View from Water



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Turner ECRUZ ARCADIS SCAPE BIG WSP

Expanded Planting (40%)

Edge View from Water



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Turner CRUZ ARCADIS SCAPE BIG WSP

Summary of Design Considerations

40% Proposed Design

- 4,460 SF of added planting
- 15 new trees
- Widened circulation toward lower esplanade
- Inclusive seating
- Option preferred by Mary Miss

Revised to Maintain Pergola

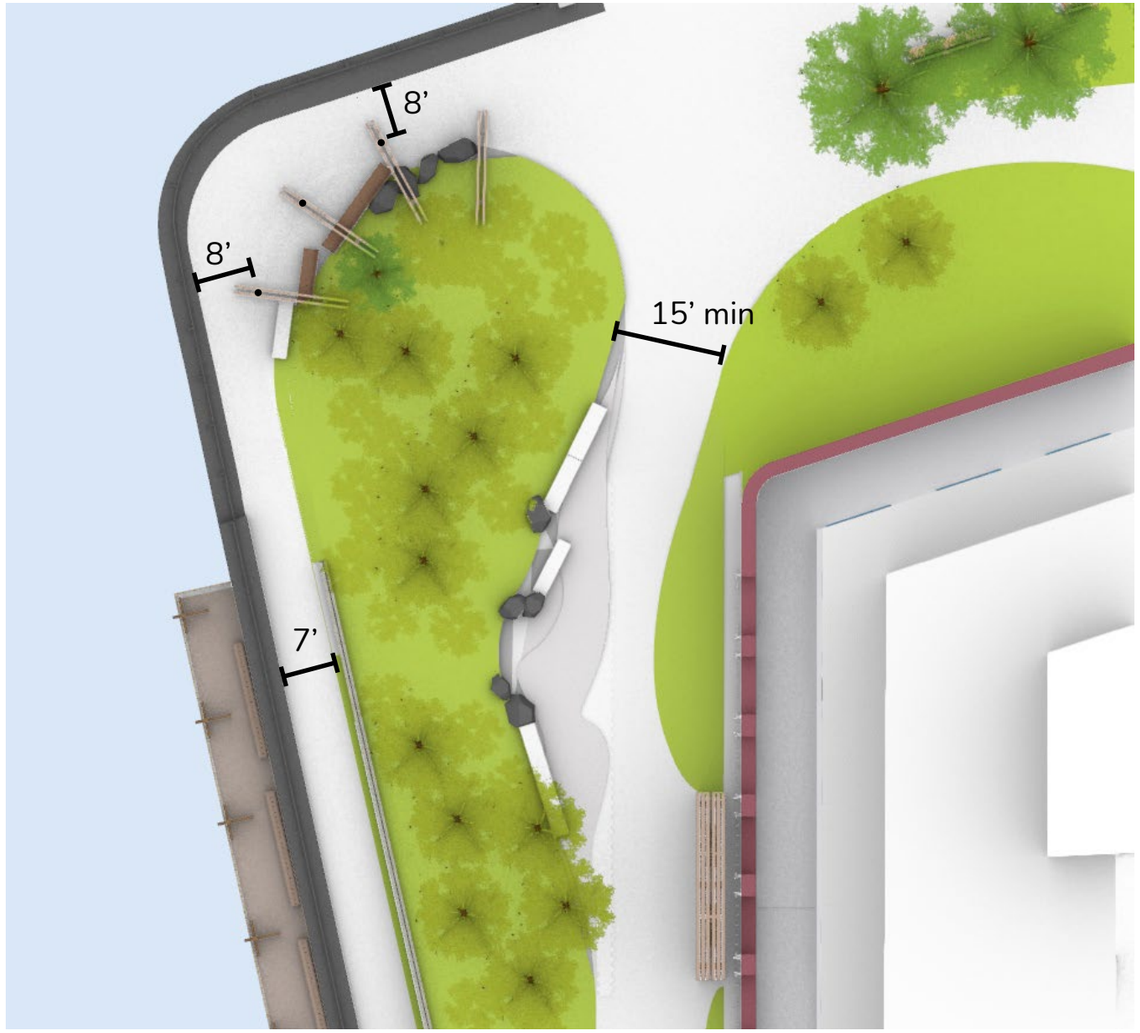
- 2,940 SF of added planting
- 10 new trees
- Pinched circulation toward lower esplanade
- Seating with no back or armrests
- Option preferred by CB1 members

HYBRID APPROACH

EXPANDED PLANTING + PARTIAL PERGOLA

Plan View

Expanded Planting + Partial Pergola



Pergola Maintained

View from Reach 6



Battery Park City Authority

Turner CRUZ ARCADIS SCAPE BIG WSP


Pergola Maintained
View from Ramp to Lower Level
NEW YORK
STATE OF
OPPORTUNITY.
Battery Park
City Authority
Turner
ECRUZ
ARCADIS
SCAPE
BIG
WSP

Pergola Maintained

View East along Regatta Wall



NEW YORK STATE OF OPPORTUNITY. Battery Park City Authority

Turner CRUZ ARCADIS SCAPE BIG WSP

Expanded Planting (40%)

Edge View from Water



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Turner & Cruz | ARCADIS | SCAPE | BIG | WSP