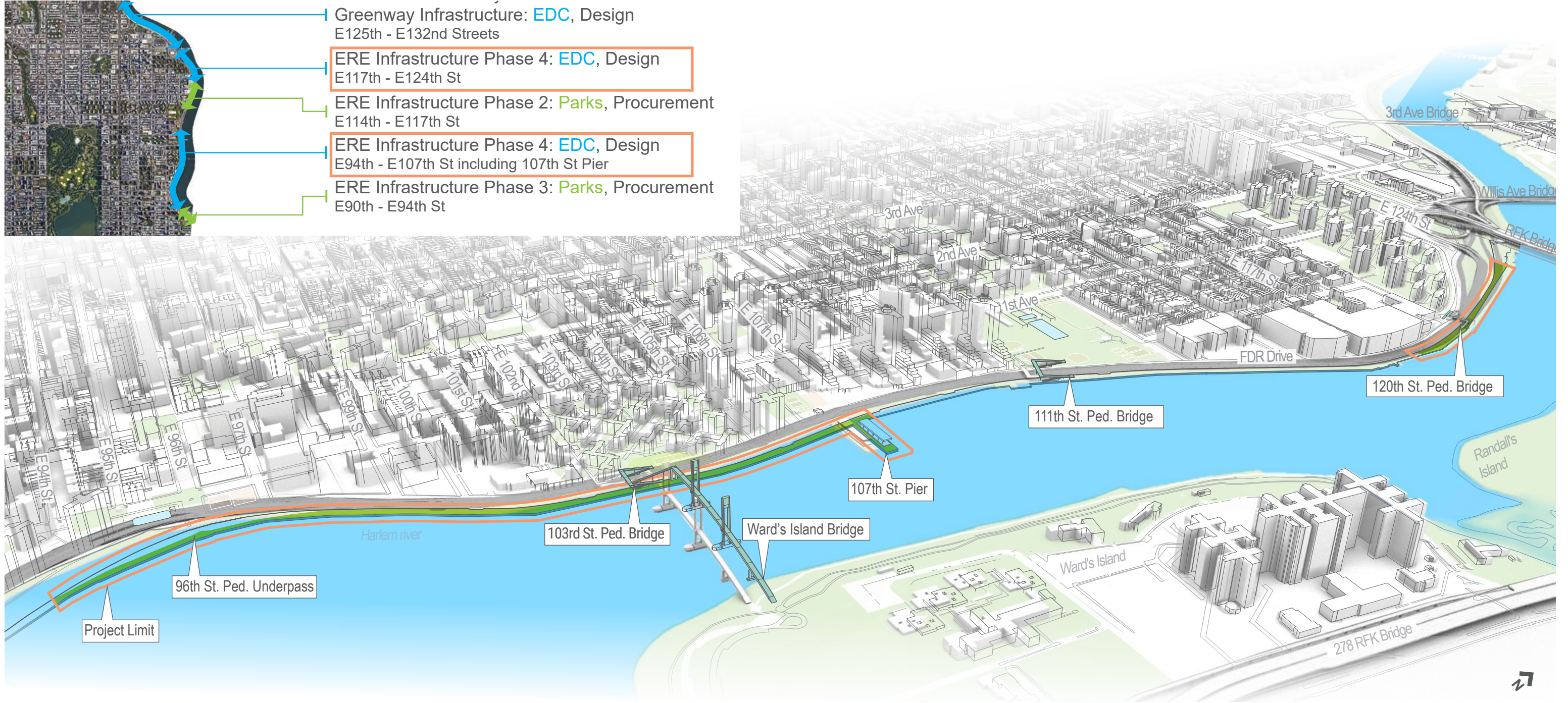


107th STREET PIER and BOBBY WAGNER WALK

Public Design Commission - Preliminary Review

APRIL 15, 2024

Project Overview



THE PROPOSED PROJECT WILL:

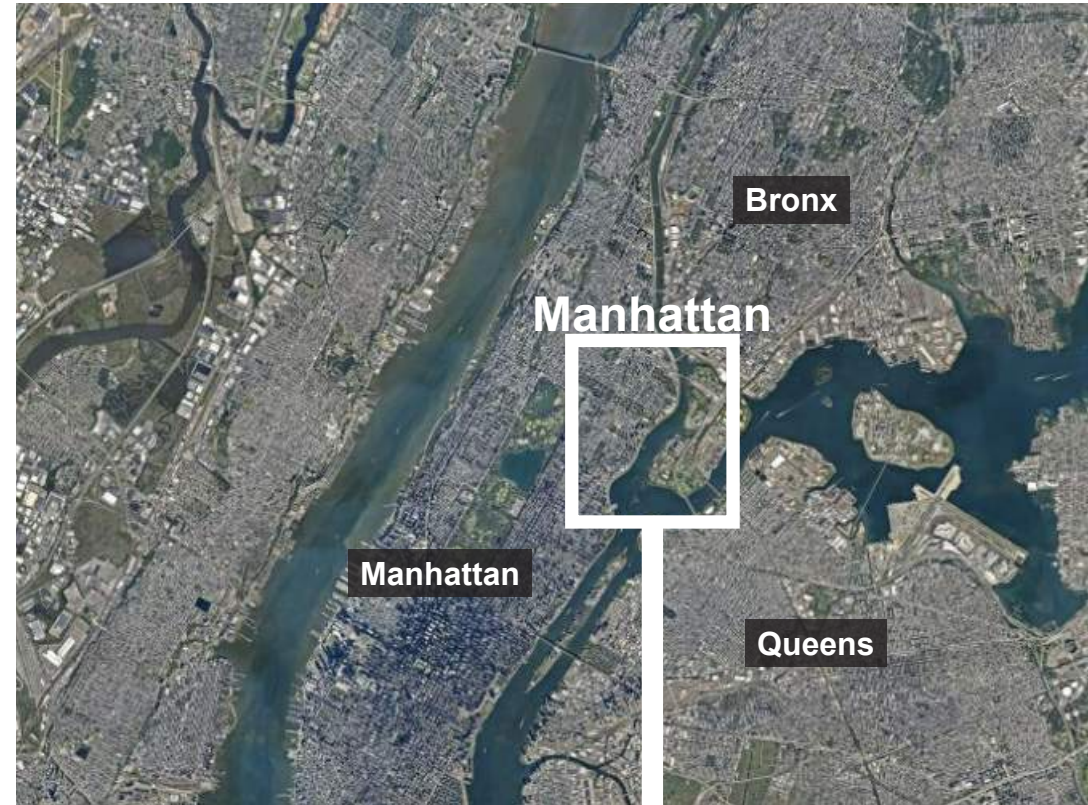
- Rebuild and rehabilitate the esplanade between 94th St - 107th St
- Rebuild and rehabilitate the esplanade between 117th St - 124th St
- Reconstruct existing 107th St Pier

107th STREET PIER and BOBBY WAGNER WALK



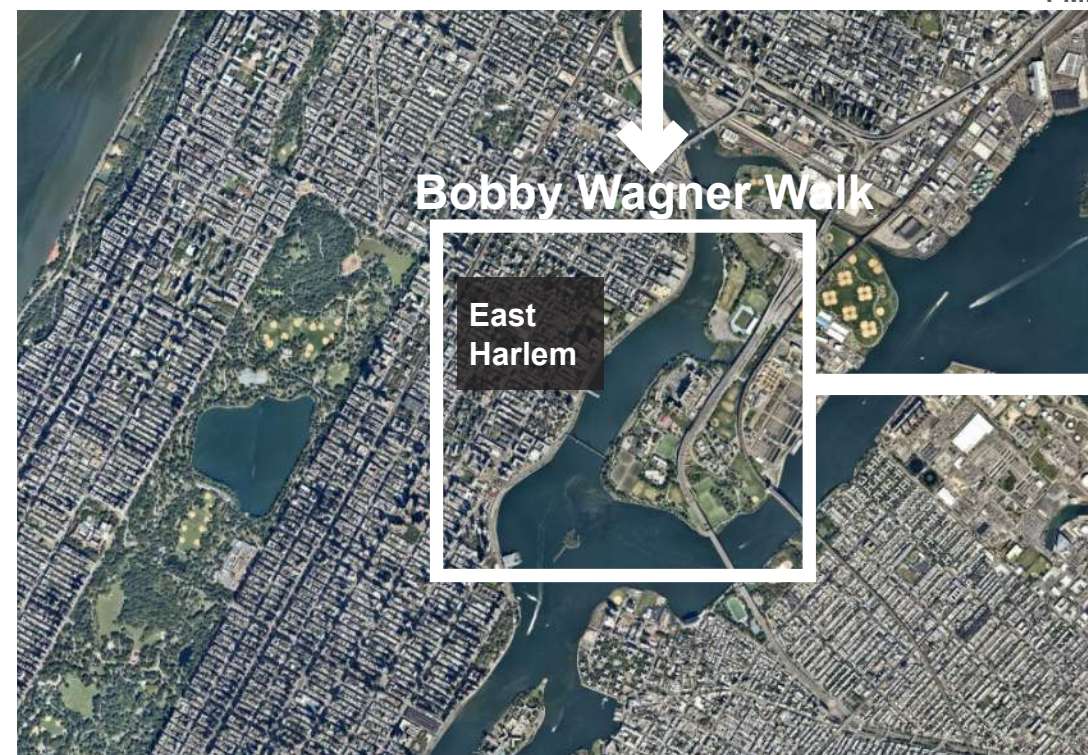
SITE CONTEXT AND HISTORY

Project Location



CITY

1 MI



NEIGHBORHOOD

2000 FT



SITE

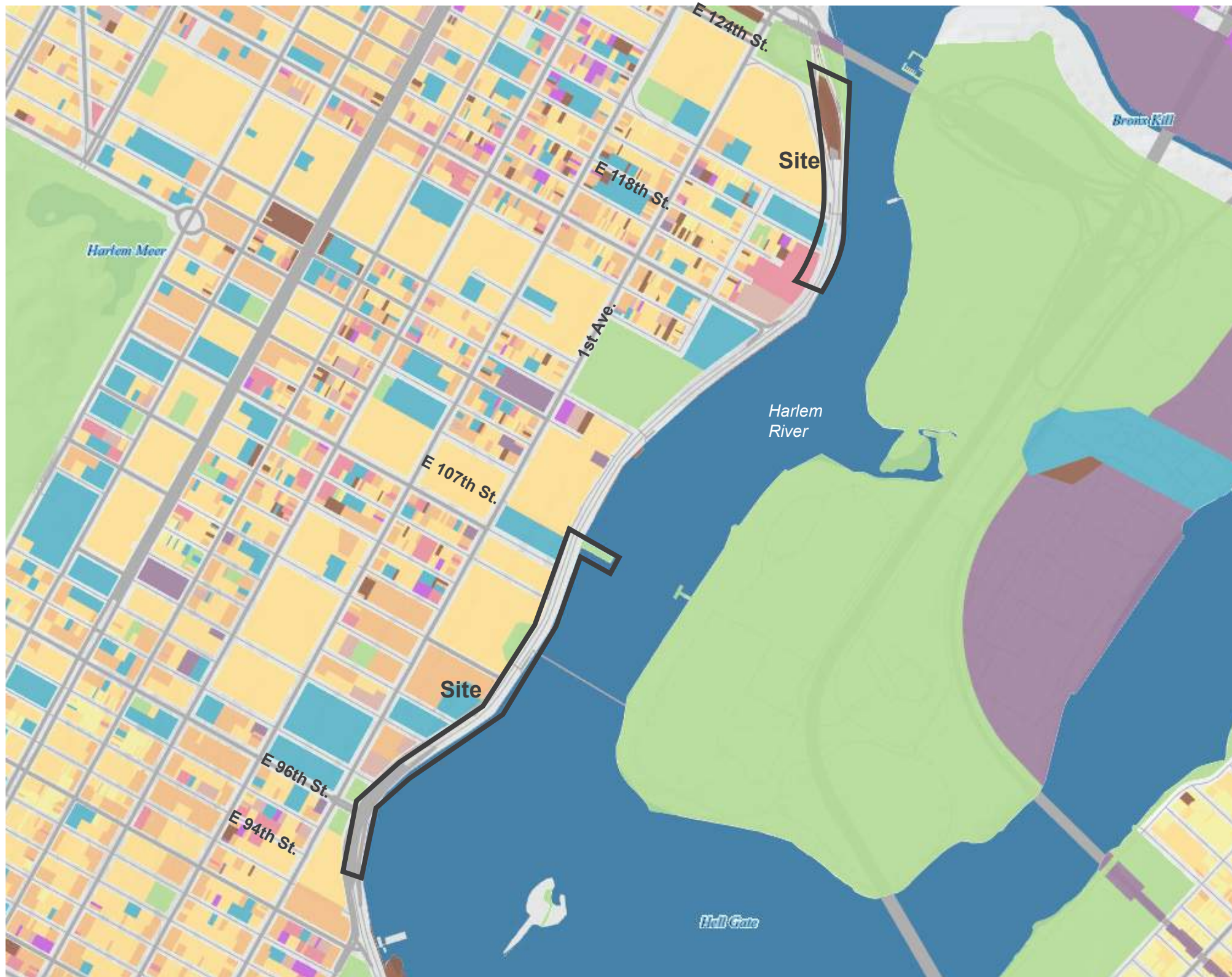
1000 FT



107th STREET PIER and BOBBY WAGNER WALK



Surrounding Land Use



LEGEND

- One & Two Family Buildings
- Multi-Family Walk-Up Buildings
- Multi-Family Elevator Buildings
- Mixed Residential and Commercial
- Commercial & Office Buildings
- Industrial & Manufacturing
- Transportation & Utility
- Public Facilities & Institutions
- Open Space & Outdoor Recreation
- Parking Facilities
- Vacant Land
- Other
- Project Limit

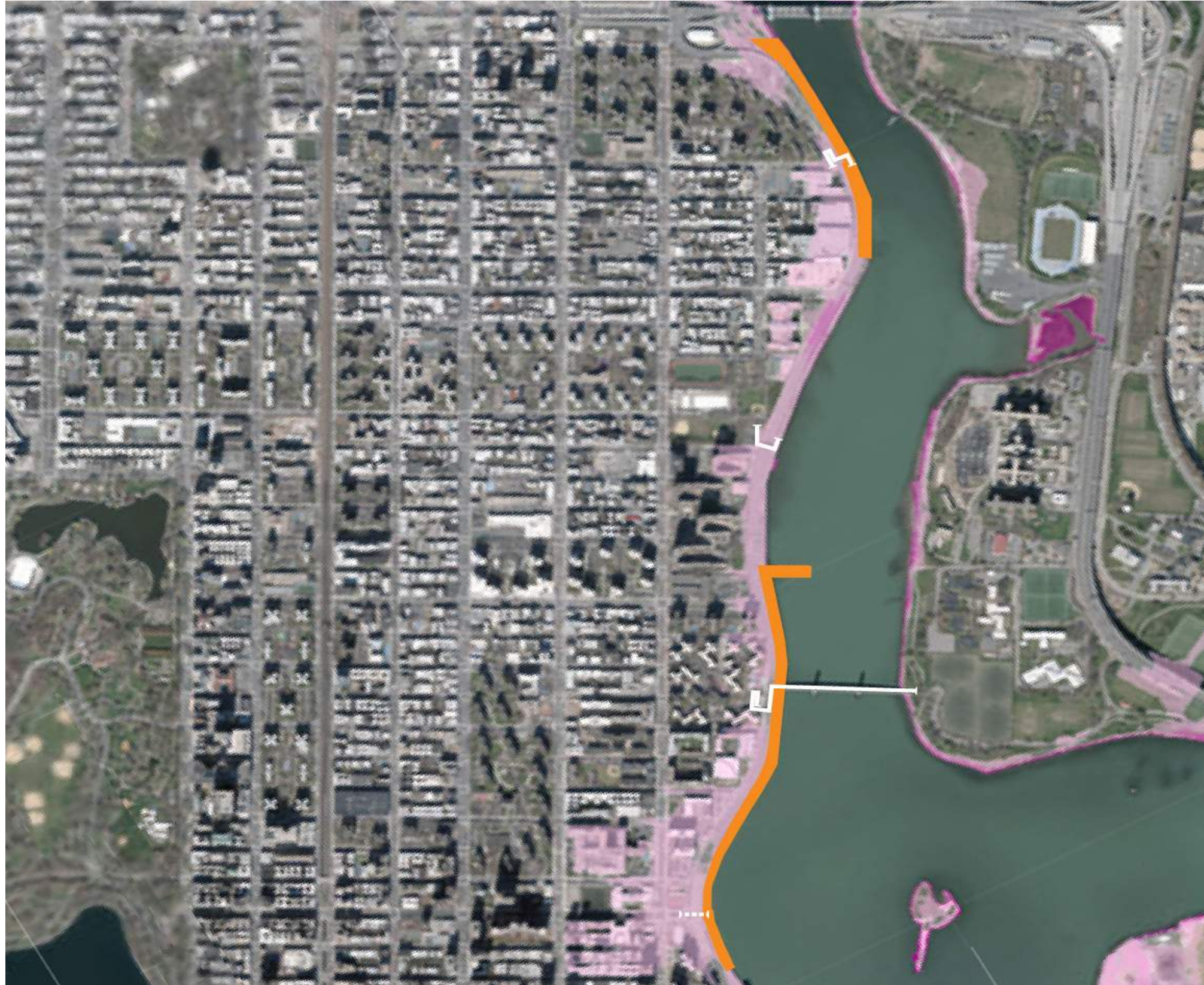


107th STREET PIER and BOBBY WAGNER WALK






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Flood Risk (2100 High Tide)



HIGH TIDE 2100

-  Low Estimate (15" SLR)
-  Middle Estimate (36" SLR)
-  High Estimate (75" SLR)

Source: NYC Flood Hazard Mapper

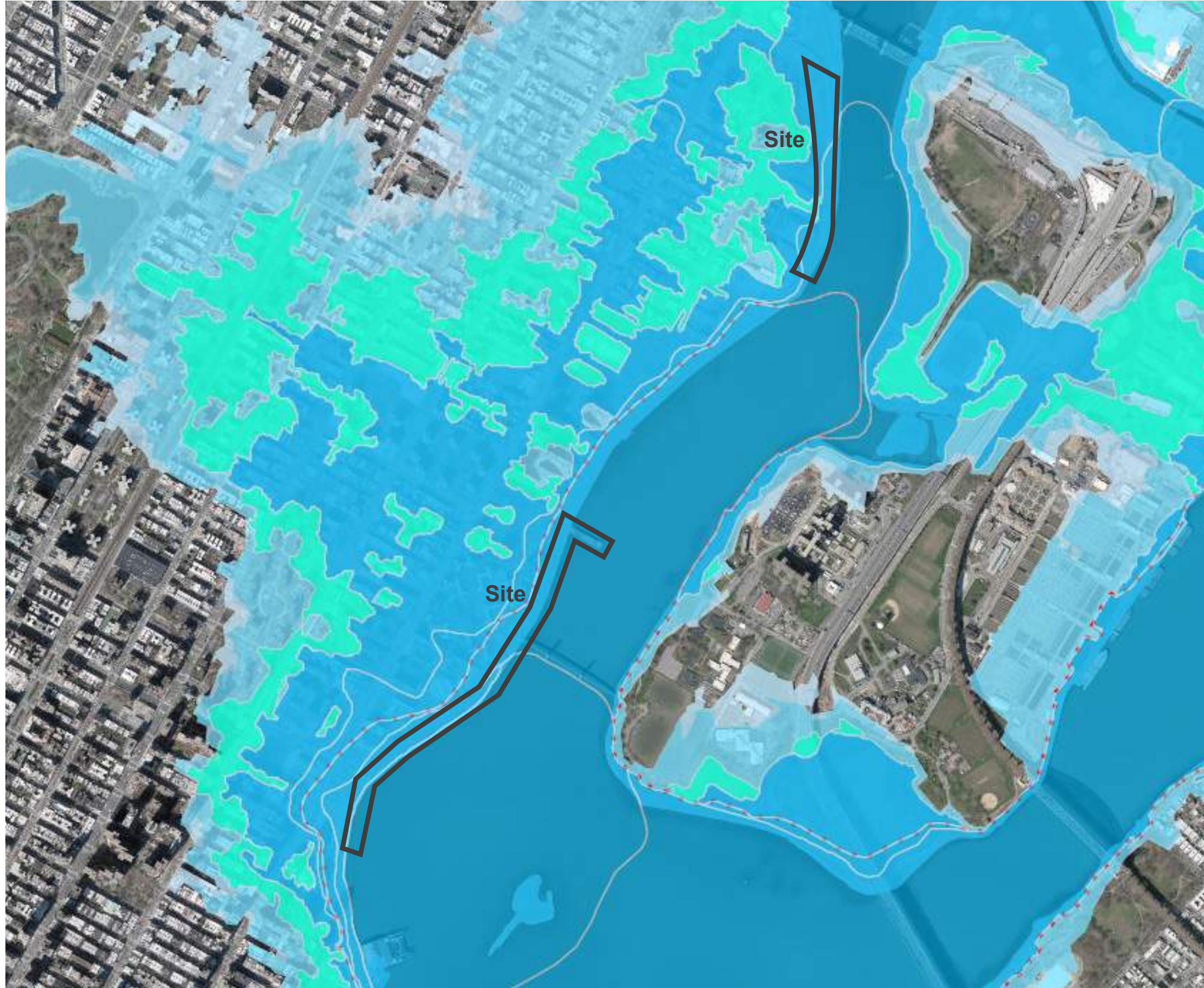


107th STREET PIER and BOBBY WAGNER WALK



MARVEL phyto

Flood Risk (Coastal - Storms)



FLOOD HAZARD ZONES

2015 Preliminary Flood Insurance Rate Map

- V Zone (100-year floodplain subject to wave action)**
 Areas along coasts subject to inundation by the 1% annual chance flood event with additional hazards associated with storm-induced waves.
- A Zone (100-year floodplain)**
 Areas subject to inundation by the 1% annual chance flood event.
- Shaded X Zone (500-year floodplain)**
 Areas within the 0.2% annual chance floodplain, areas of 1% annual chance flooding where average depths are less than 1 foot, areas of 1% annual chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1% annual chance flood by a levee.
- Limit of Moderate Wave Action (LiMWA)**
 The inland limit of the area expected to receive 1.5ft or greater breaking waves during the 1% annual chance flood event. Data from 2015 PFIRMs.

Future Floodplain 2100s

- Future 1% Annual Chance Floodplain (100-year)**
- Future 0.2% Annual Chance Floodplain (500-year)**

This project intends to mitigate the impacts of future high tide, which is shown on the previous slide. While this area is also vulnerable to coastal flooding, its flooding is exacerbated by lack of adequate inland drainage.

Neighborhood-scale drainage improvements are outside the scope of this project.

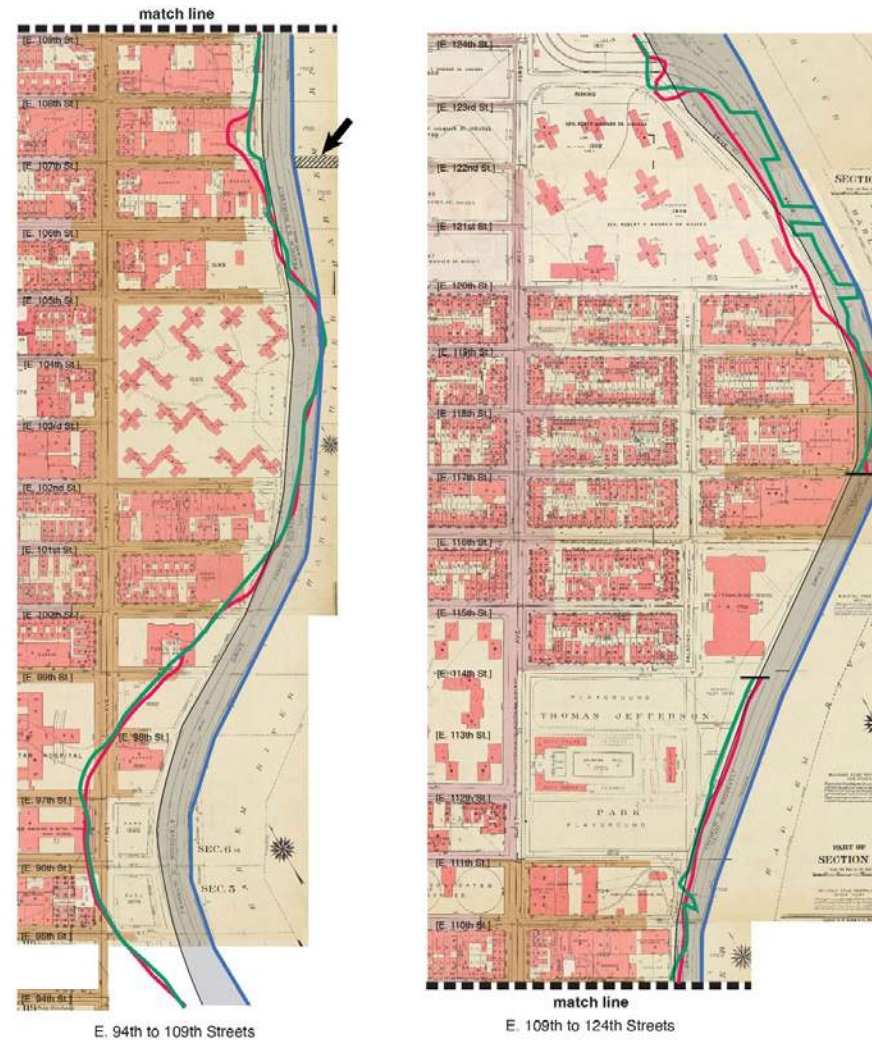




Archaeology

BWW-107th STREET PIER 1820 Shoreline with Old Terrain and Waterways on Manhattan Grid (Viele 1865, detail), 1955 Bulkhead and Location of Future 107th Street Pier



BWW-107th STREET PIER 1820 and 1867 East and Harlem River Shoreline, 1955 FDR Drive and Bulkhead (Randel 1820; Harrison/Dripps 1867; Bromley 1955, details) and 107th St. Pier



-  Harrison Dripps 1867 shoreline, ox.
-  Bromley 1955 bulkhead line

BWW-107th STREET PIER 1820 Randel with Structures East of First Avenue, 1955 Bulkhead, and 107th Street Pier Location



107th STREET PIER and BOBBY WAGNER WALK



Historical Context | 107th Street Pier



The earliest known inhabitants in the area were the Lenape



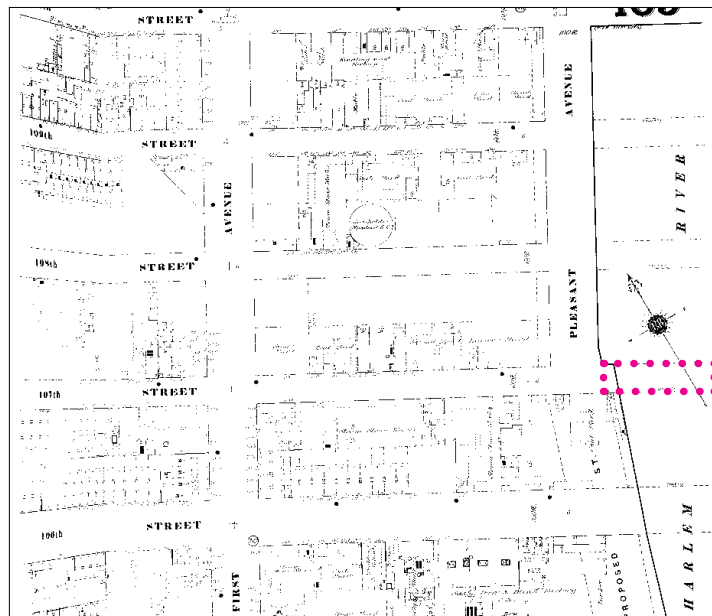
1851 Farmland around future location of 107th Street pier



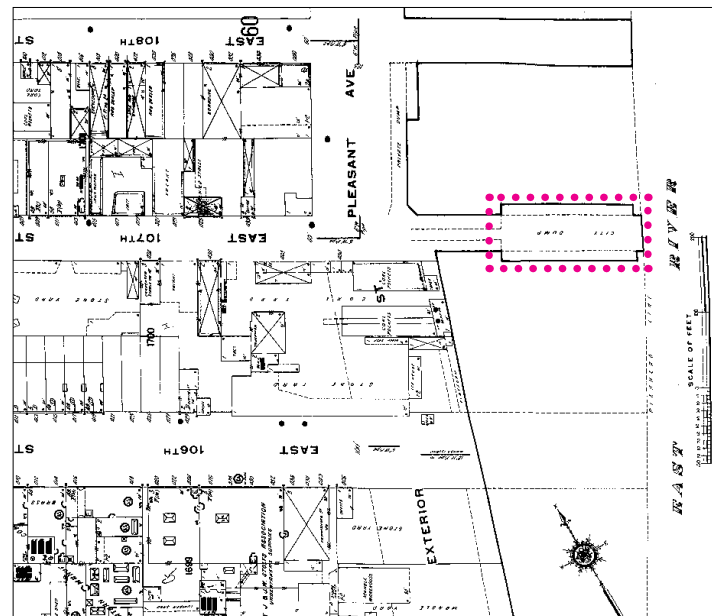
1879 City grid and Harlem Creek visible



1891 Bulkhead wall appears to be completed between 104th and 107th streets



1896 Bulkhead wall construction north of 107th Street appears to be completed; plan for a street south of 107th Street along the waterfront also recorded



1911 107th Street pier appears in first fire insurance maps as "City Dump"



1923 107th Street pier "dump" indicated as a wood frame structure with metal cladding; large coal, marble and lumber yards seen at water's edge



1930 107th Street pier indicated as a wood frame structure with brick cladding; coal yards and building material warehouses seen at water's edge

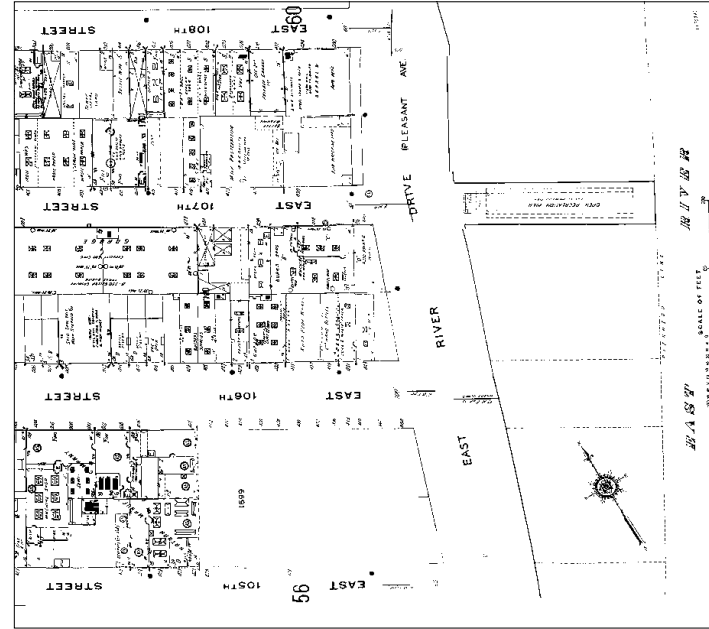
Historical Context | 107th Street Pier



1934 East 107th Street Pier



1936 Pier begins redevelopment as a recreational pier



1937 107th Street Pier indicated as "Open Recreation Pier"; construction of East River Drive



1940 Tax photo of East 107th Street Pier



1955 107th Street pier identified as "Recreation Pier"; 1- and 2-story garages present west of FDR Drive.



1989 NYC Public Development Corporation selects Cavaglieri/Sultan Architects for the pier's restoration

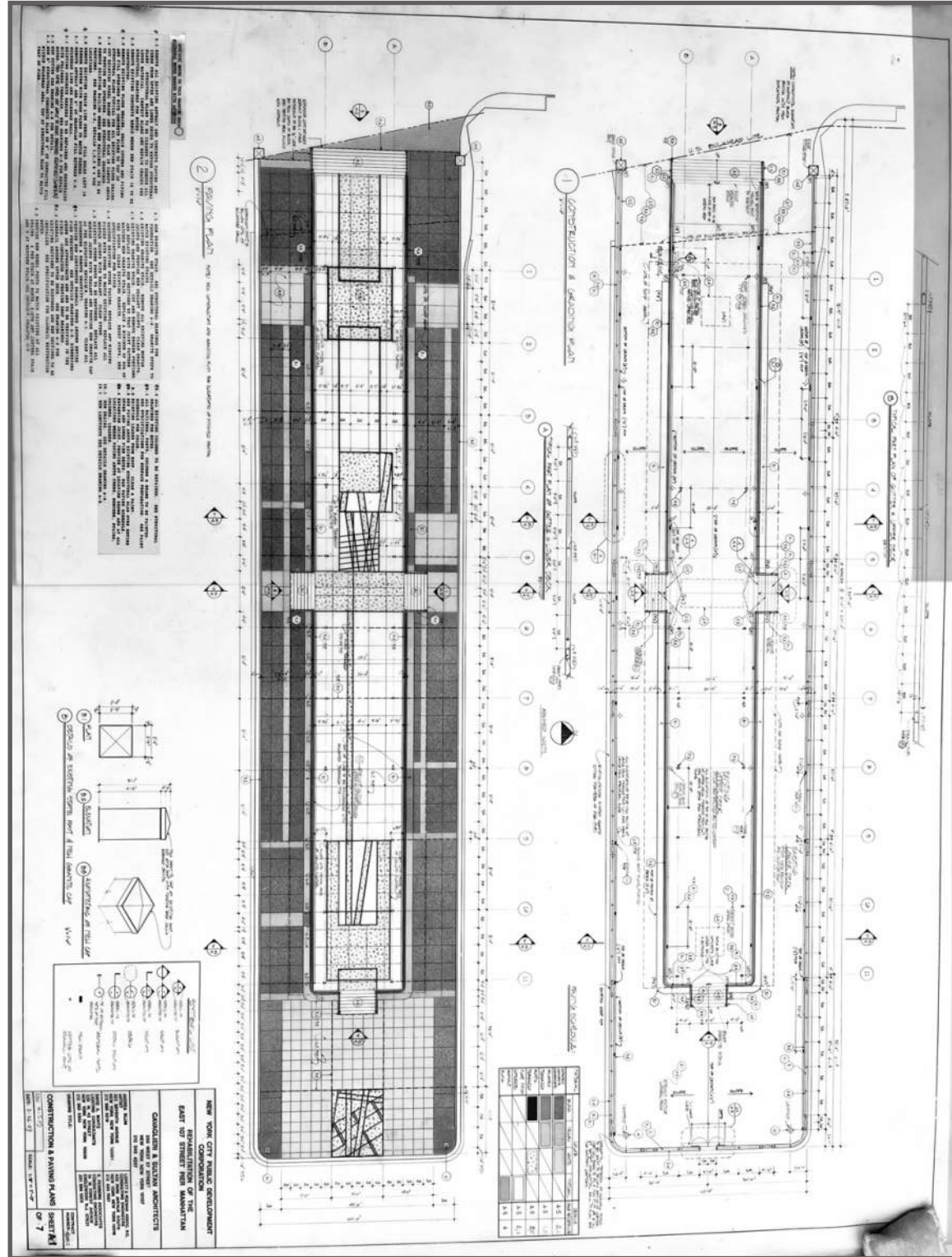


1991 Cavaglieri/Sultan Restoration completed



2018 Pier closed to the public due to structural deterioration

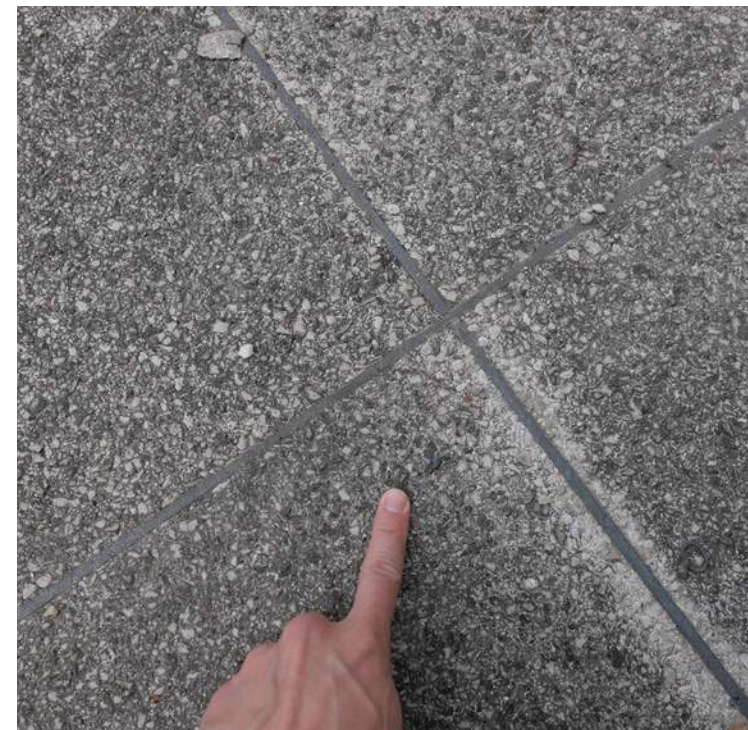
Historical Material | 107th Street Pier



HISTORICAL DRAWINGS OF 107TH ST PIER



HISTORICAL PHOTOS OF 107TH ST PIER



EXISTING PHOTOS OF 107TH ST PIER

SHPO Process Overview

- The 107th Street Pier was determined eligible for listing on the New York State and National Registers of Historic Places (NR/SR). An eligibility determination for the East River Bulkhead, within the project extents must be made by NY-SHPO.
- A Section 106 Review, in accordance with the National Historic Preservation Act, will be required.
- A Joint Application to the United States Army Corps of Engineers (USACE) will be submitted in April 2024; after which USACE will serve as the Lead Federal Agency for the Section 106 Review.
- USACE’s formal initiation letter will be required to initiate the Section 106 Review process.
- NY-SHPO determined the proposed demolition of the historic 107th Street Pier will result in an Adverse Effect.
- In response to NY-SHPO’s request, an Alternatives Analysis was prepared and NY-SHPO concurred that no prudent and feasible alternative was possible to the proposed undertaking.
- NY-SHPO asked that the team prepare a draft Memorandum of Agreement (MOA) with potential mitigation stipulations to address the Adverse Effect.
- USACE is currently evaluating the East River Bulkhead documentation for potential SR/NR eligibility that will then be subject to NY-SHPO evaluation; the Archaeological Phase 1A Report; the Consulting Parties List; Draft Memorandum of Agreement Stipulations to mitigate adverse effects; and Stantec’s existing conditions report.

Where we are in the process:

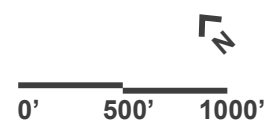


Neighborhood Parks and Amenities



LEGEND

- █ Project Limit
- █ Parks & Open Spaces



107th STREET PIER and BOBBY WAGNER WALK

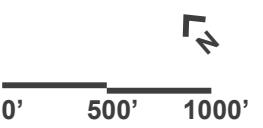


Transit



LEGEND

- █ Project Limit
- ⋯ Bike Lane
- Bus Route
- Subway
- - - Future Subway
- ● Subway Station



107th STREET PIER and BOBBY WAGNER WALK



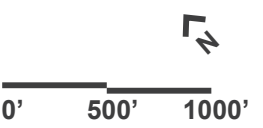
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Community Services



LEGEND

- Project Limit
- School
- Hospital
- Religious Entity
- Library
- NYCHA
- Large Scale Housing

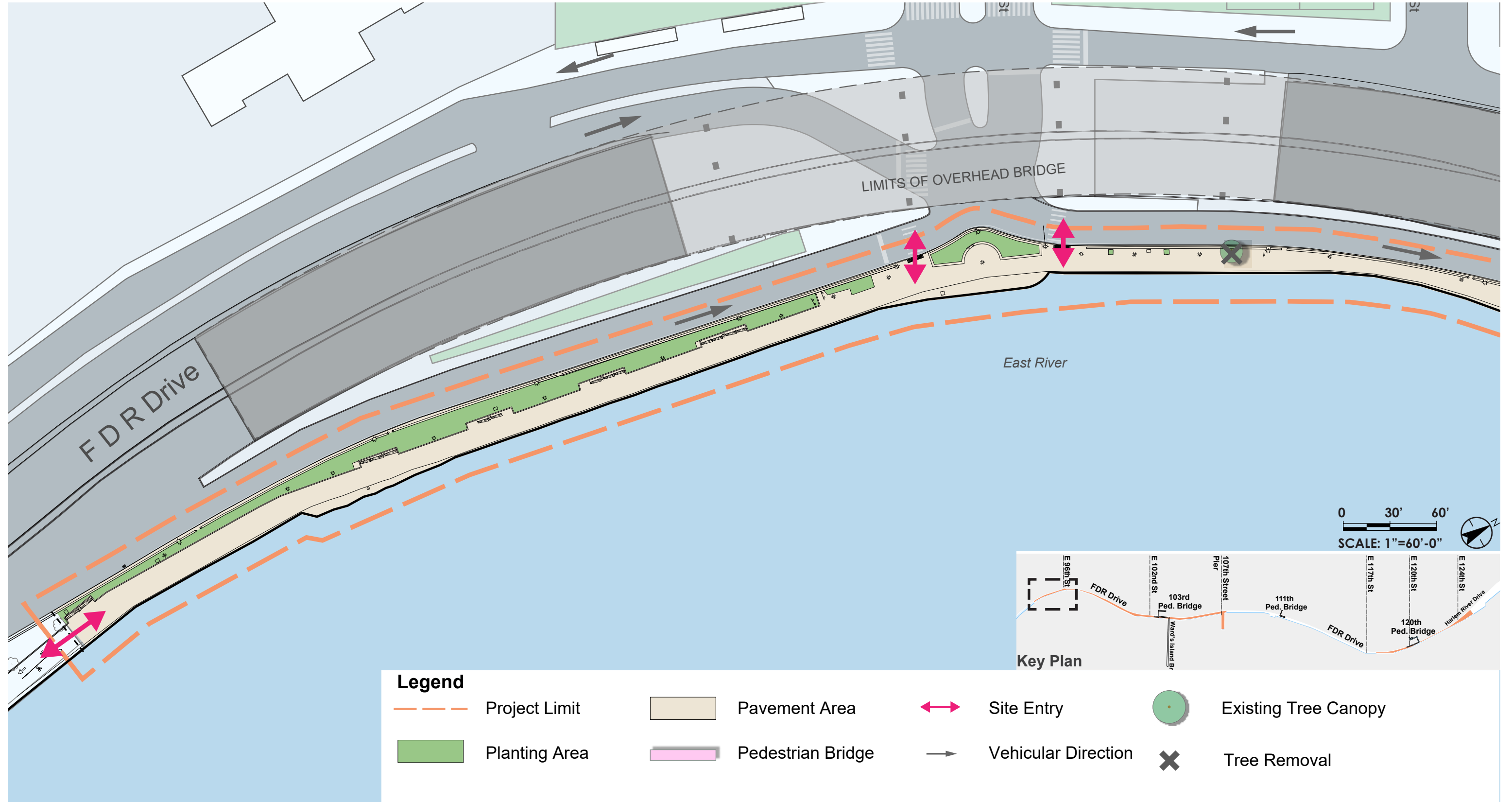


107th STREET PIER and BOBBY WAGNER WALK



EXISTING CONDITIONS

Existing Conditions | 94th-96th Street

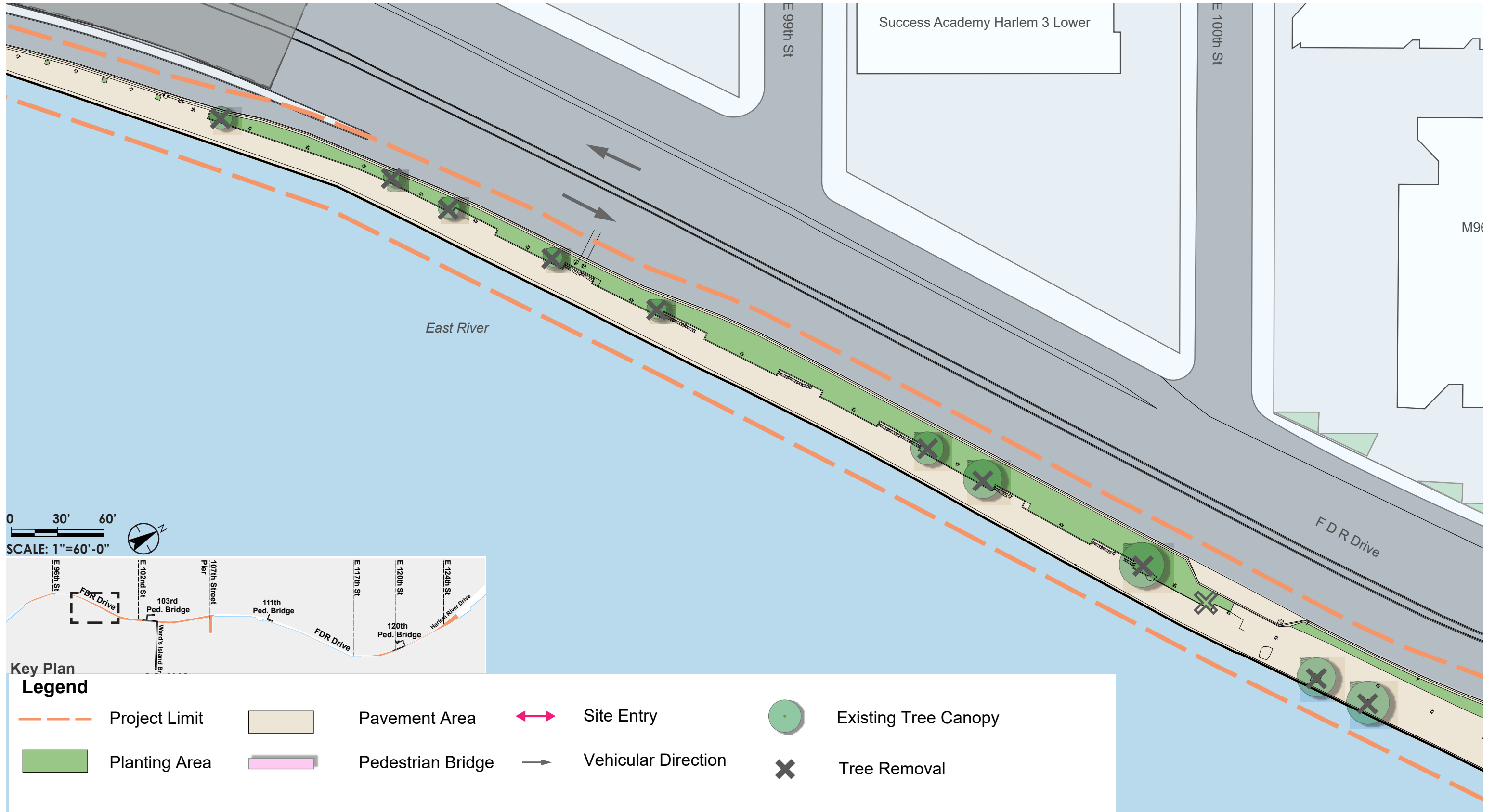


107th STREET PIER and BOBBY WAGNER WALK



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Existing Conditions | 97th- 100th Street

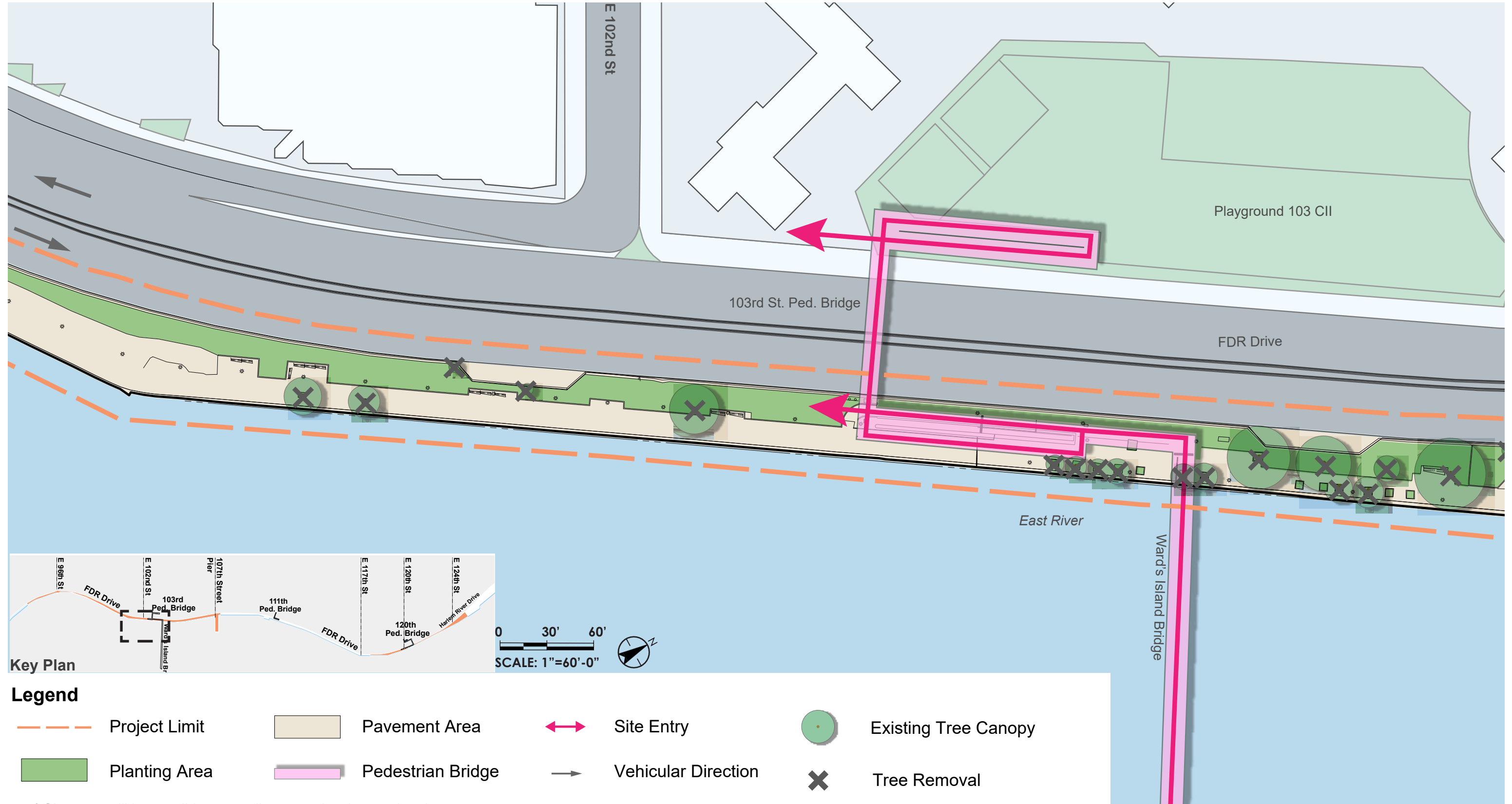


107th STREET PIER and BOBBY WAGNER WALK



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Existing Conditions | 101th-103rd Street



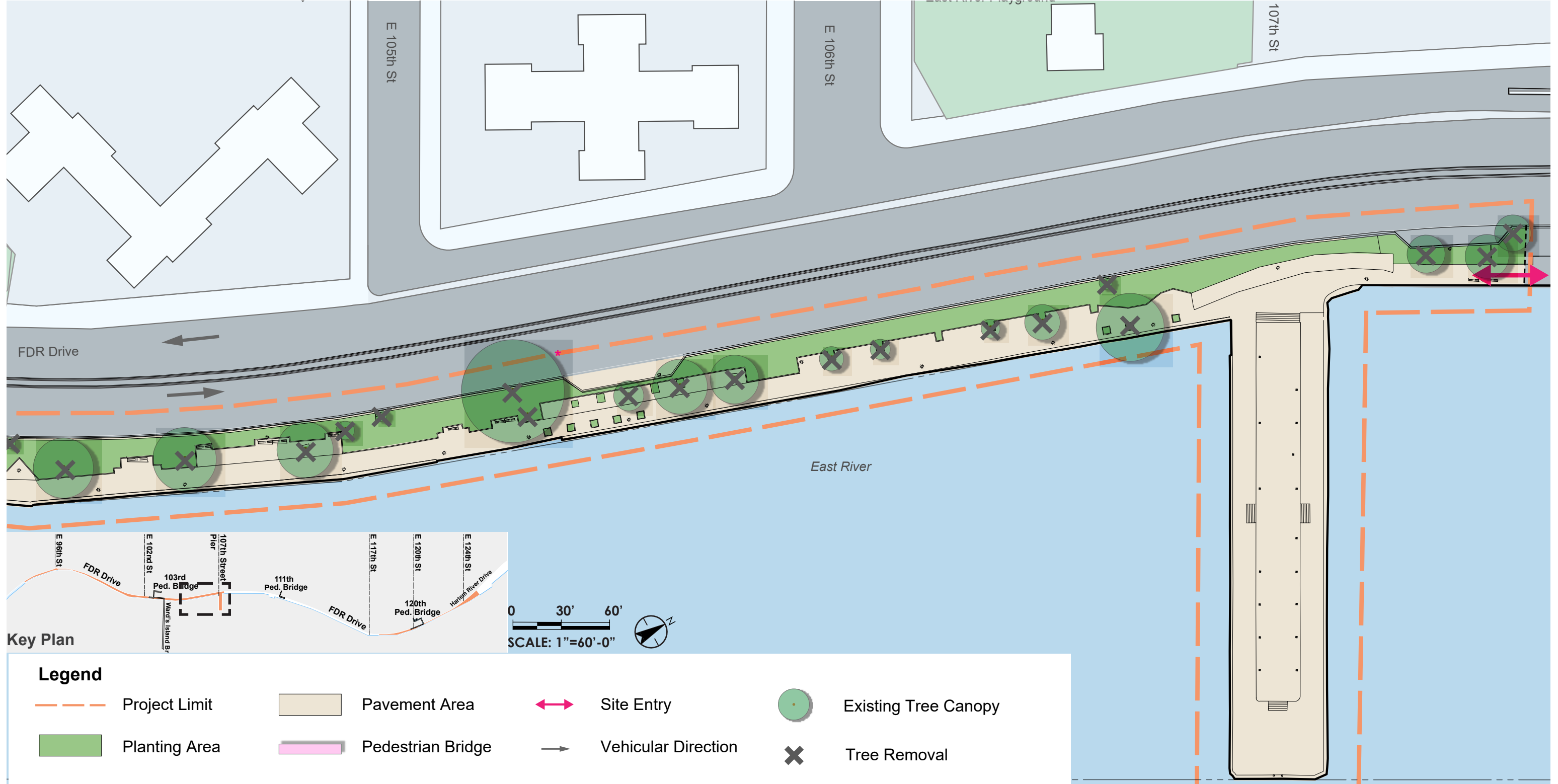
Legend

- Project Limit
- Pavement Area
- Pedestrian Bridge
- Planting Area
- Existing Tree Canopy
- X Tree Removal
- Site Entry
- Vehicular Direction

* Site entry will be possible once adjacent project is completed

107th STREET PIER and BOBBY WAGNER WALK

Existing Conditions | 104th-107th Street

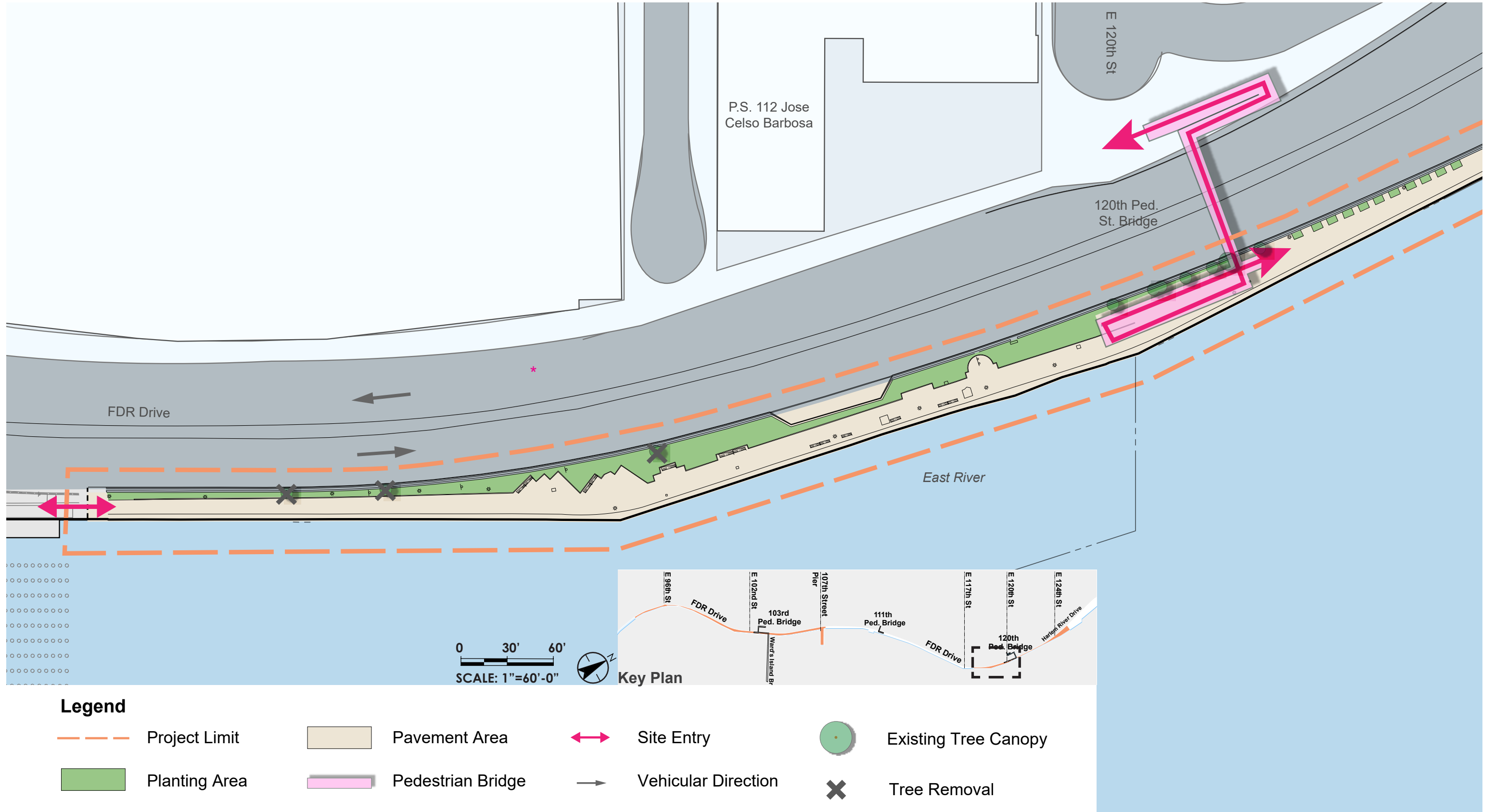


107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

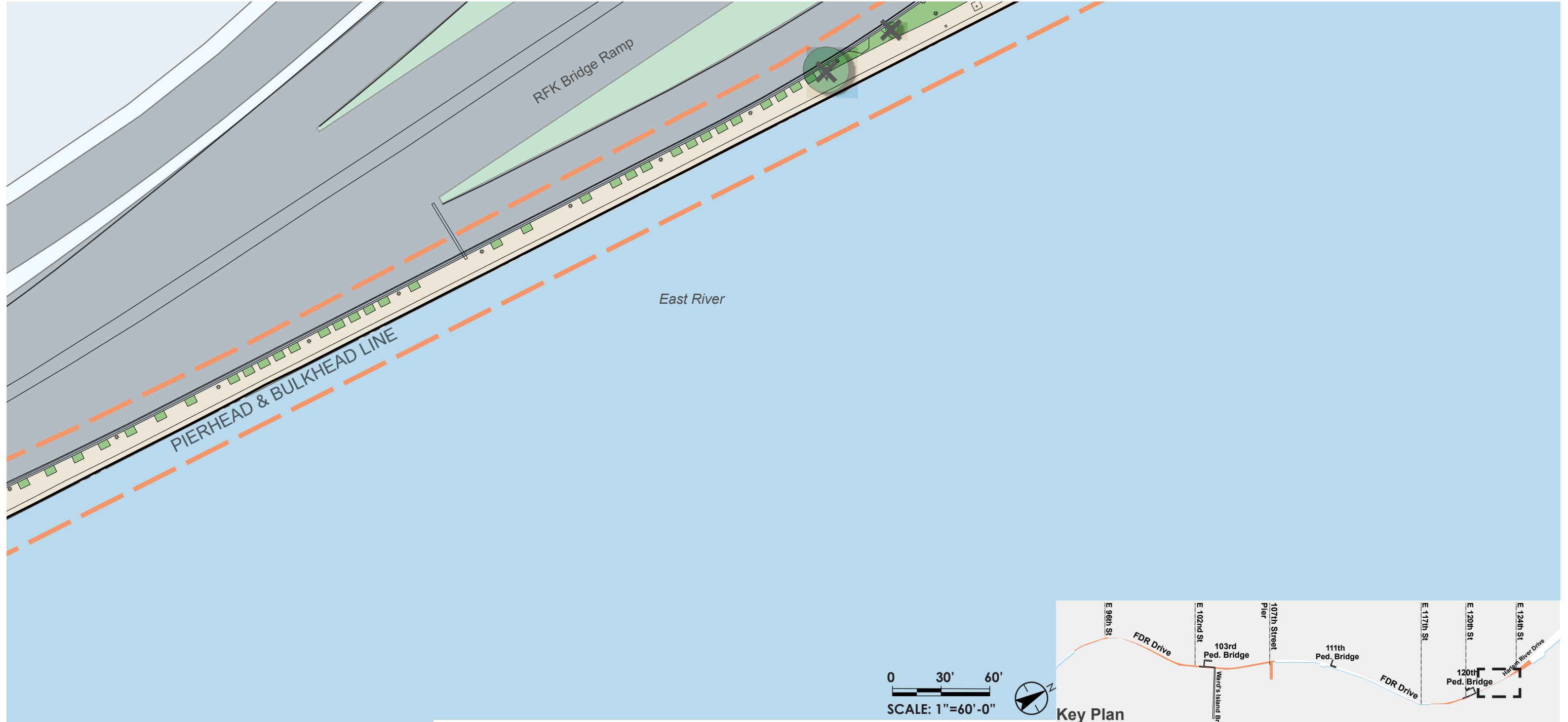
Existing Conditions | 117th-120th Street




107th STREET PIER and BOBBY WAGNER WALK



Existing Conditions | 120th-122nd Street



Legend

- | | | | | | | | |
|--|---------------|---|-------------------|---|---------------------|---|----------------------|
|  | Project Limit |  | Pavement Area |  | Site Entry |  | Existing Tree Canopy |
|  | Planting Area |  | Pedestrian Bridge |  | Vehicular Direction |  | Tree Removal |

107th STREET PIER and BOBBY WAGNER WALK



Existing Conditions | 123rd-124th Street



107th STREET PIER and BOBBY WAGNER WALK



Site Photos



Key map



1. 94th Street looking northwest



2. 96th Street entrance with planters, looking north

107th STREET PIER and BOBBY WAGNER WALK



Site Photos



Key map



3. 97th Street looking northeast



4. Between 101st and 102rd Street, looking northeast

107th STREET PIER and BOBBY WAGNER WALK



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Site Photos



Key map



5. 102nd Street, looking at 103rd Street Pedestrian Bridge



6. 103rd Street Pedestrian Bridge, under bridge ramp looking north

107th STREET PIER and BOBBY WAGNER WALK



Site Photos



Key map



7. 104th Street looking northeast



8. Between 105th and 106th Street, looking northeast

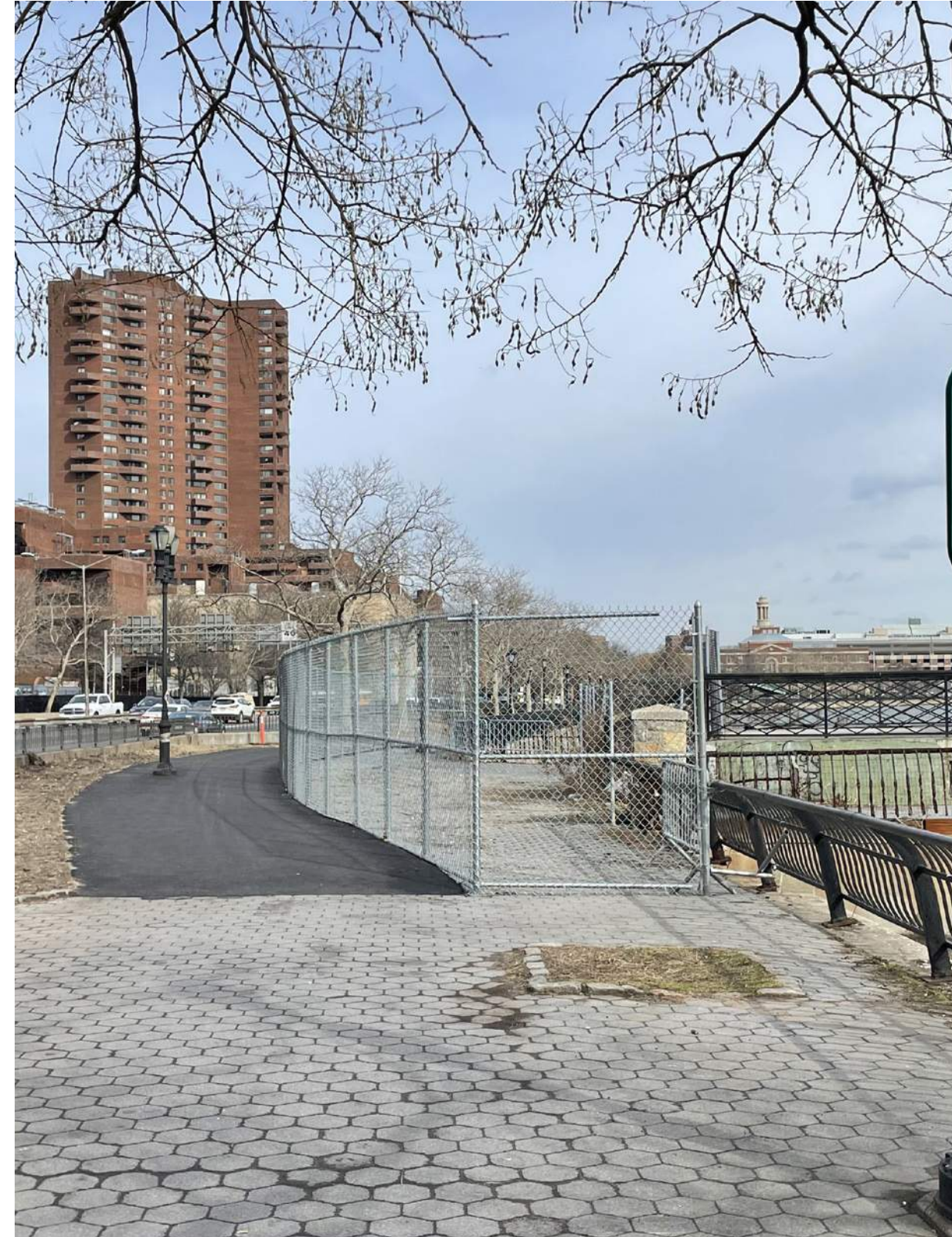
107th STREET PIER and BOBBY WAGNER WALK



Site Photos



Key map



9. Current entrance to 107th Street Pier, closed to public



10. 107th Street, looking at pier from south side

107th STREET PIER and BOBBY WAGNER WALK



Site Photos



Key map



11. Pier and the pavilion, looking West on the pier



12. Pier entrance, looking East from the esplanade

107th STREET PIER and BOBBY WAGNER WALK



Site Photos



Key map



13. Pier North side, looking East



14. Pier South side, looking East

107th STREET PIER and BOBBY WAGNER WALK



Site Photos



Key map



15. Pier North side, looking Northwest



16. Pier South side, looking South

107th STREET PIER and BOBBY WAGNER WALK



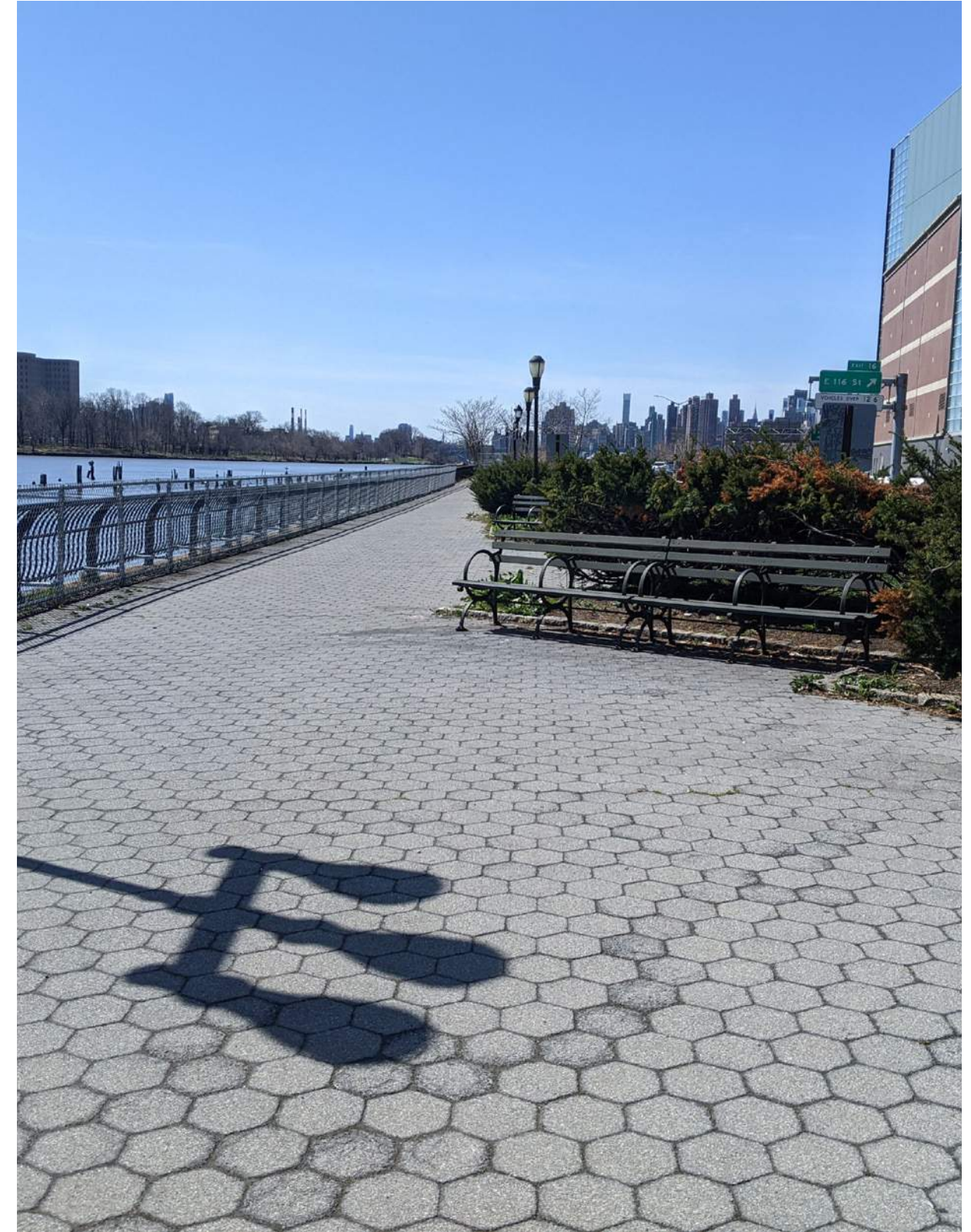
Site Photos



Key map



17. 117th Street, looking southwest



18. 119th Street looking southwest

107th STREET PIER and BOBBY WAGNER WALK



Site Photos



Key map



19. 120th Street, looking at 120th Street Pedestrian Bridge



20. 120th Street Pedestrian Bridge, ramps on esplanade side

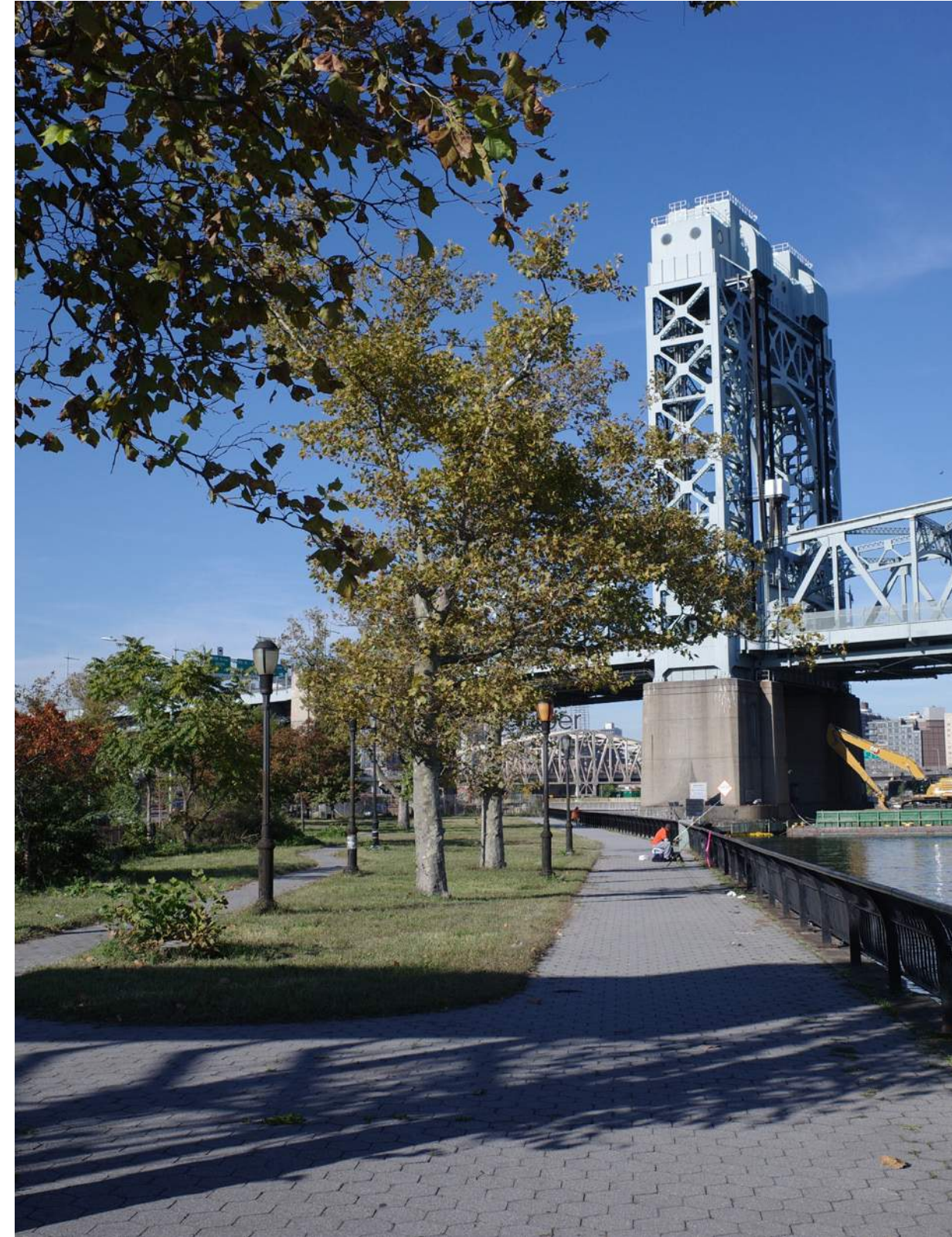
107th STREET PIER and BOBBY WAGNER WALK



Site Photos



Key map



21. 121st Street looking northeast



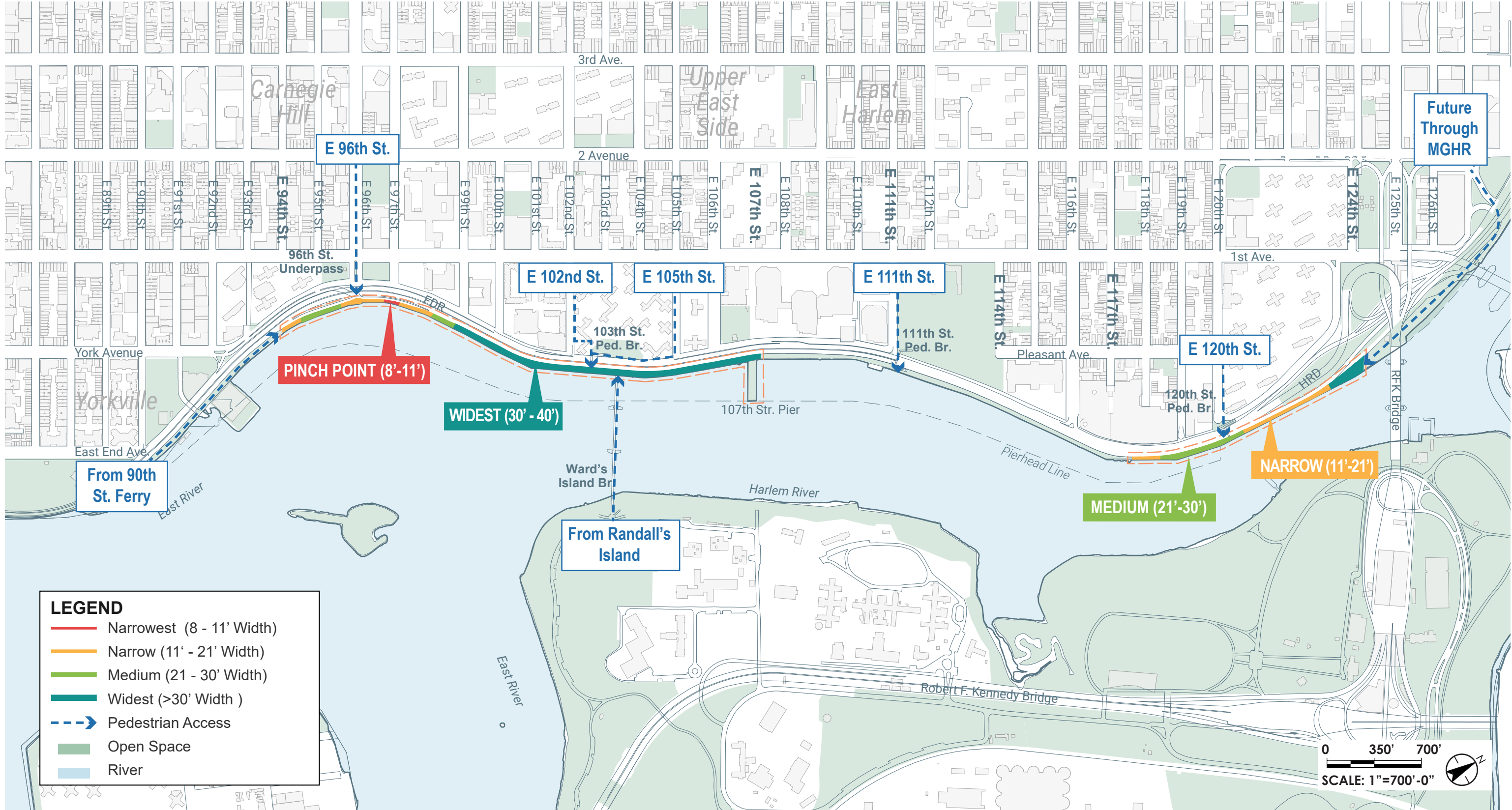
22. 124th Street looking north

107th STREET PIER and BOBBY WAGNER WALK



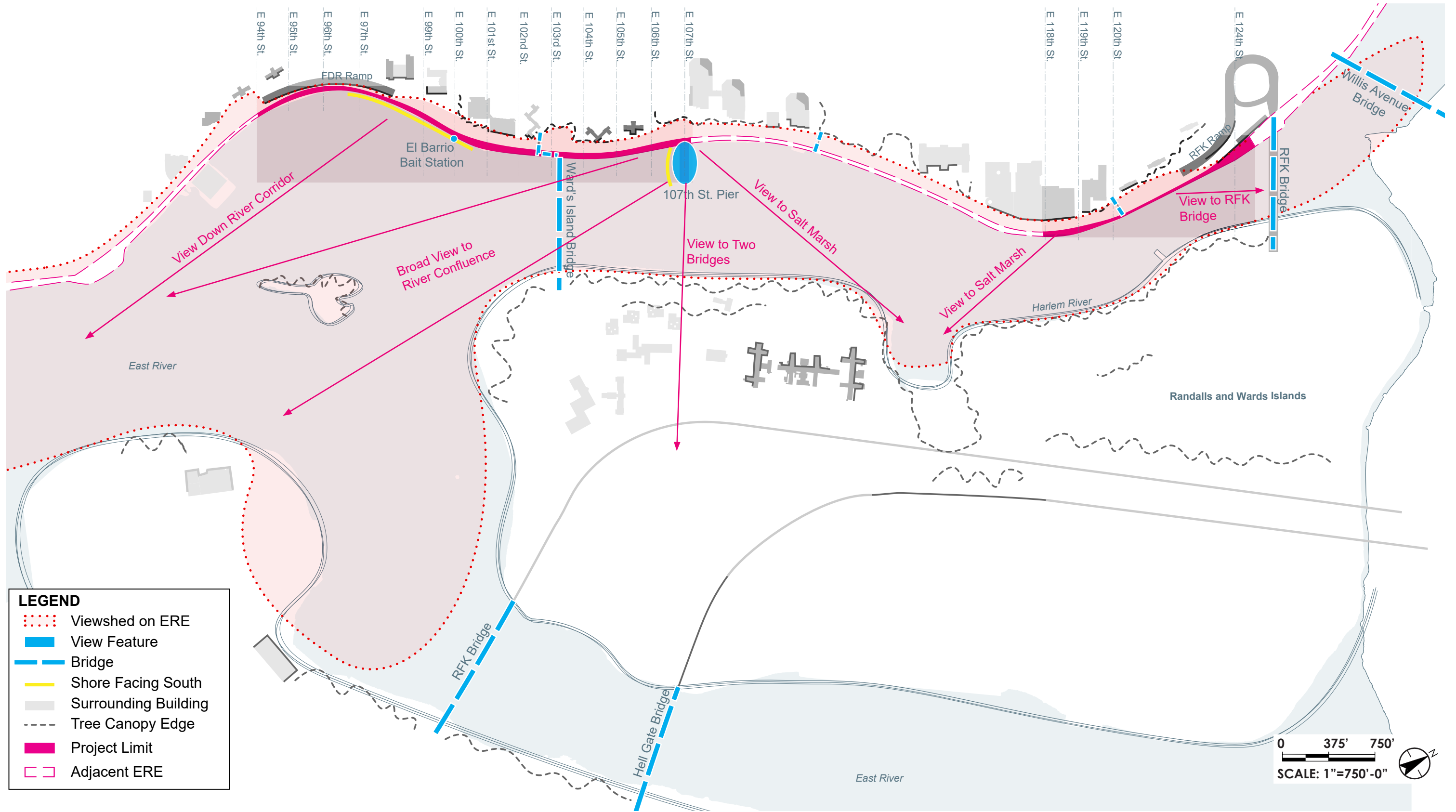
SITE ANALYSIS

Access and Spatial Width



107th STREET PIER and BOBBY WAGNER WALK

Views



107th STREET PIER and BOBBY WAGNER WALK



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Views from Esplanade



Ward's Island Bridge



Hell Gate Bridge



RFK Bridge

Astoria Park

Mill Rock

Roosevelt Island

Long Island City

VIEW OF EAST RIVER AT 100TH STREET



Railroad Viaduct

Hell Gate Bridge

Little Hell Gate Salt Marsh

Manhattan Psychiatric Center

Ward's Island Park

VIEW TO THE SOUTH AT 117TH STREET



RFK Ramp

Willis Avenue Bridge

RFK Bridge

VIEW TO THE NORTH AT 124TH STREET

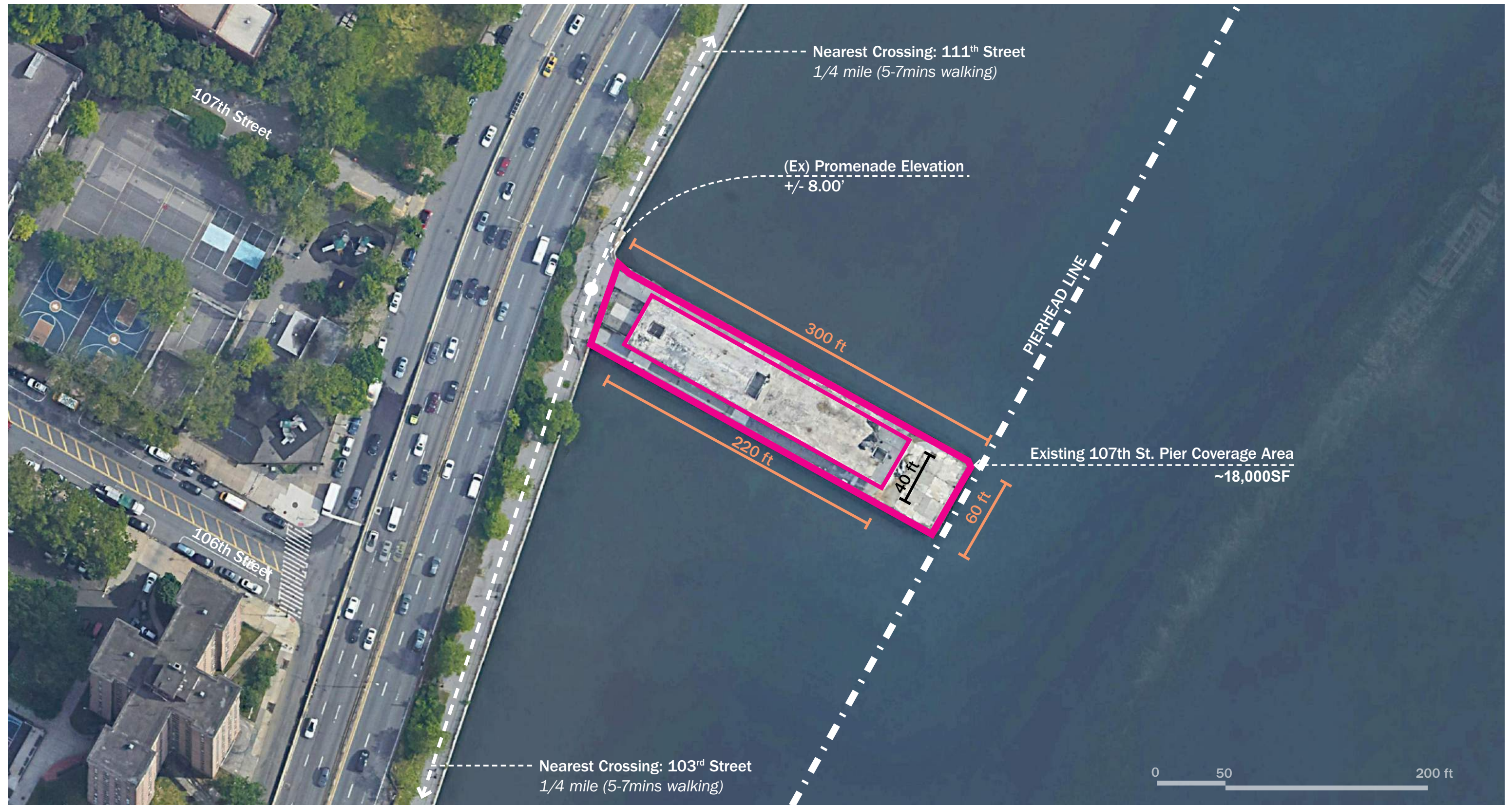
107th STREET PIER and BOBBY WAGNER WALK



Stantec

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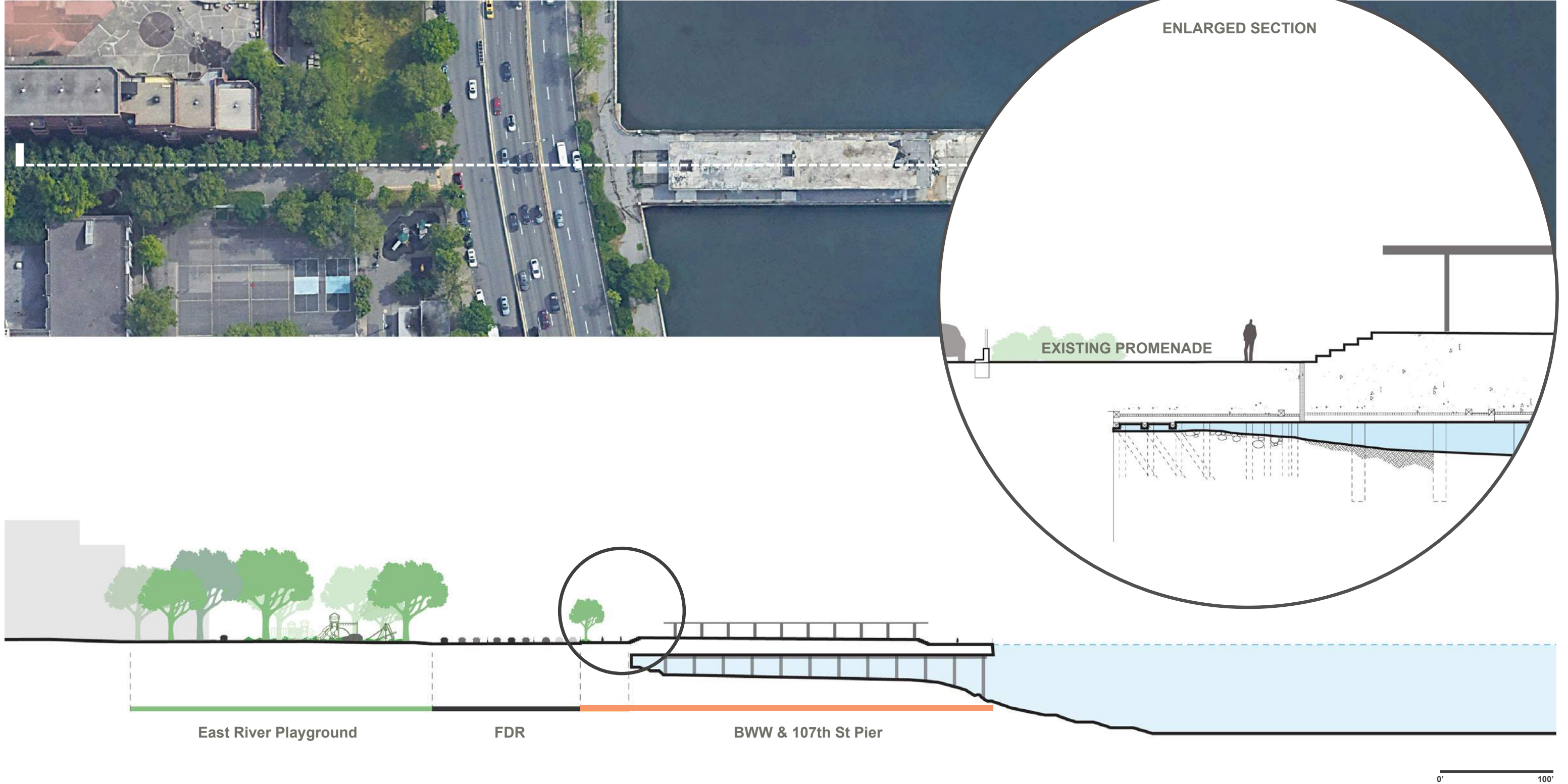
107th Street Pier | Existing Plan



107th STREET PIER and BOBBY WAGNER WALK



107th Street Pier | Existing Section



COMMUNITY ENGAGEMENT

Community Engagement Process



Online Survey

- 332 responses received

Information Meeting - Jan 25

- 55 attendees

Workshop #1 - Virtual, Feb 9

- 35 attendees

Workshop #1 - In-Person, Feb 13

- 25 attendees

Esplanade Walkthrough - Feb 11

- 34 attendees + 1 dog

Pop Up - Feb 26

- Met 66 neighbors

Community Board 11 - March 2

- Parks Committee

Community Board 11 - Jun 1

- Parks Committee

Workshop #2 - In-Person, July 11

- 30 attendees

Workshop #2 - Virtual, July 13

- 22 attendees

Community Engagement Takeaways | Esplanade

- It's **very important** that the Esplanade **provides a safe and continuous path along the waterfront.**
- It's **important** that the Esplanade **provides new activities** and is also a place of **calm and quiet.**
- It's **somewhat not important** that the Esplanade **maintains its current character.**



safe and continuous path



new activities



place of calm and quiet

Community Engagement Takeaways | Esplanade

- Would like to see/experience...



separated bike lane



tree canopy



bench seating



native planting



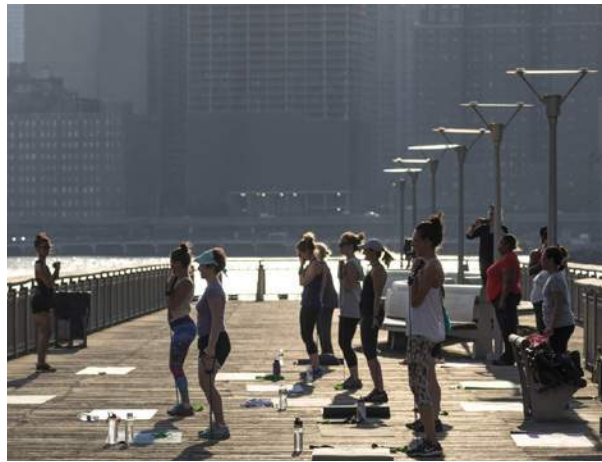
vegetative buffer

Community Engagement Takeaways | 107th Street Pier

- It's **very important** that the Pier enhances and promotes **native ecology**, is a place of **community gathering**, allows **interaction with the water**, and reflects the **neighborhood's history**.
- It's also **important** that the Pier is a place of **quiet and comfort**, but less so compared to the Esplanade.



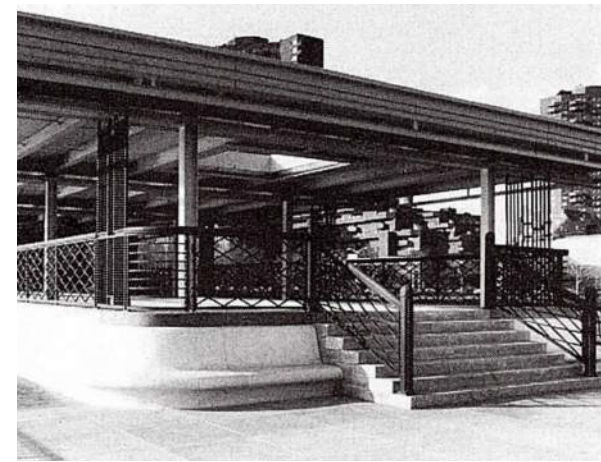
promotes ecology



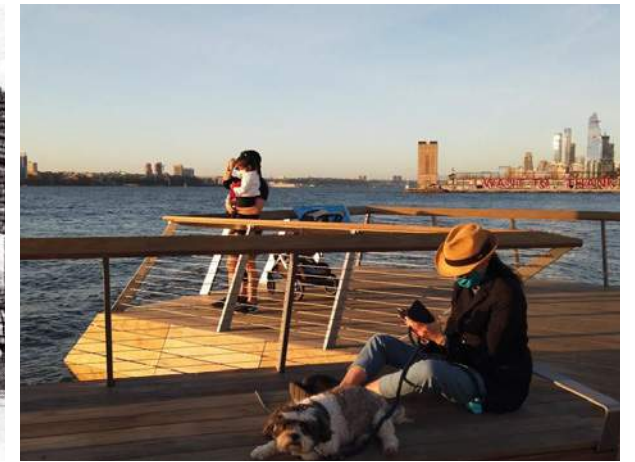
place of gathering



interaction with water



reflects local history



place of quiet and comfort

Community Engagement Takeaways | 107th Street Pier

- Would like to see/experience...



shade structure



multi-use gathering area



seating



fishing



eco enhancements & learning

PRELIMINARY ESPLANADE AND PIER DESIGN

DESIGN GOALS

Vibrant

Flexible and well-used at all times of the day

- Enliven the waterfront by providing a high-quality design open space and range of community-supported uses.
- Provide seating, lighting, and other amenities along the length of the esplanade.
- Engage the community in selecting desired amenities.

Accessible

Connected to the local community both physically and programmatically

- Rehabilitate, reconstruct, and improve the esplanade.
- Create continuity with the East River Esplanade and larger Manhattan Waterfront Greenway.
- Create seamless connections N-S and E-W (at existing FDR crossings).
- Apply principles of universal design.

Resilient

Durable, low-maintenance, and designed to withstand rising sea levels

- Provide for seasonal comfort.
- Incorporate trees and planting along the length of the esplanade.
- Incorporate resiliency features considering 2100 SLR.
- Work with MOCEJ and incorporate NYC CRDG.
- Integrate green infrastructure.

Ecologically Beneficial

Support and connect human and marine ecosystems

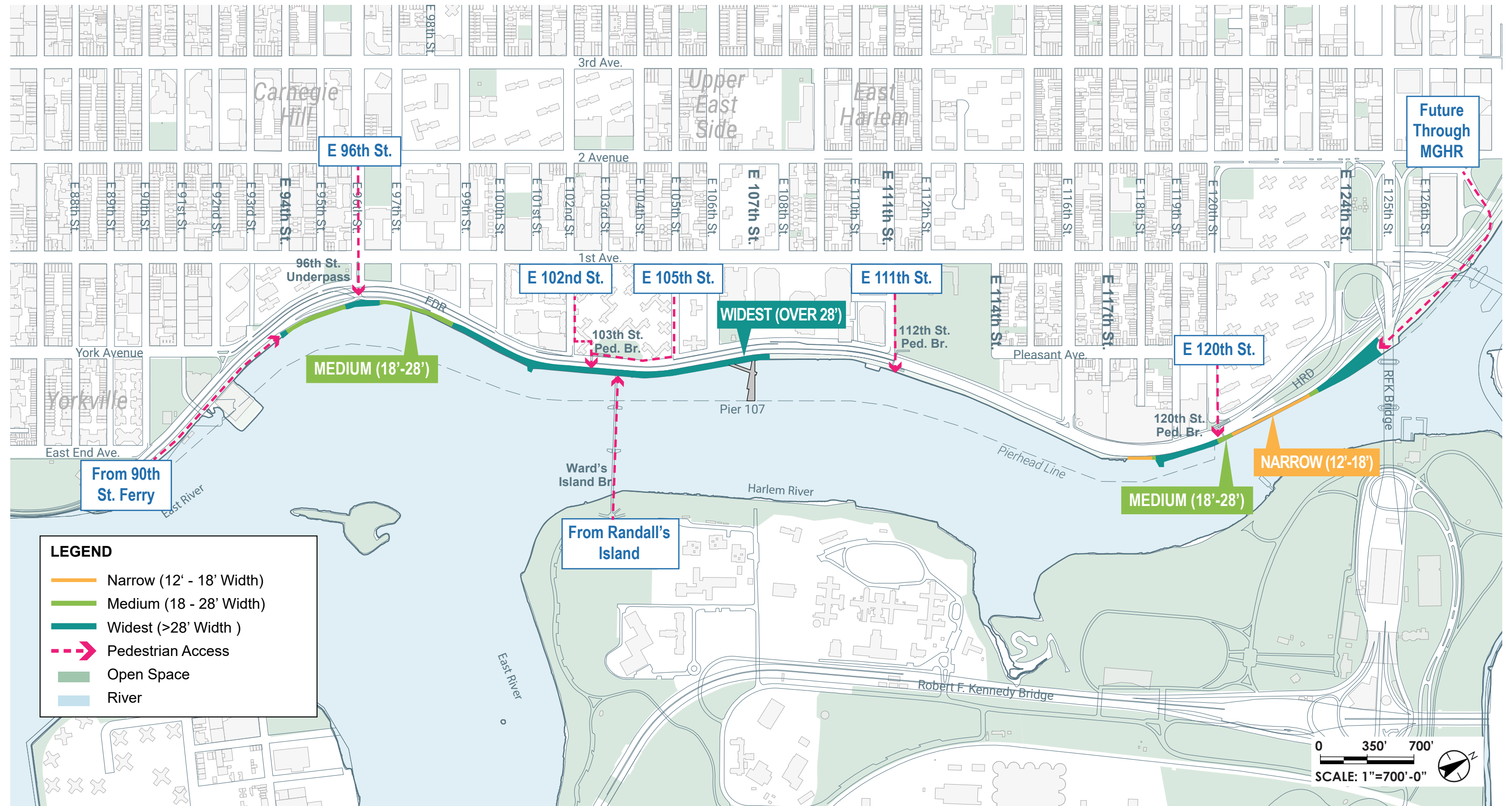
- Provide benefits to the in-water ecological system.
- Increase in-water habitat structure for aquatic species
- Incorporate native and ecologically beneficial plant communities.

Sustainable

Reduce carbon footprint of materials and construction process

- Minimize construction waste going to landfill.
- Minimize life cycle greenhouse gas emissions (embodied and operational GHG).
- Minimize operational energy demand.
- Minimize operational water demand.
- Minimize use of virgin materials.

Proposed Access and Spatial Width



107th STREET PIER and BOBBY WAGNER WALK

Proposed Esplanade Elevation



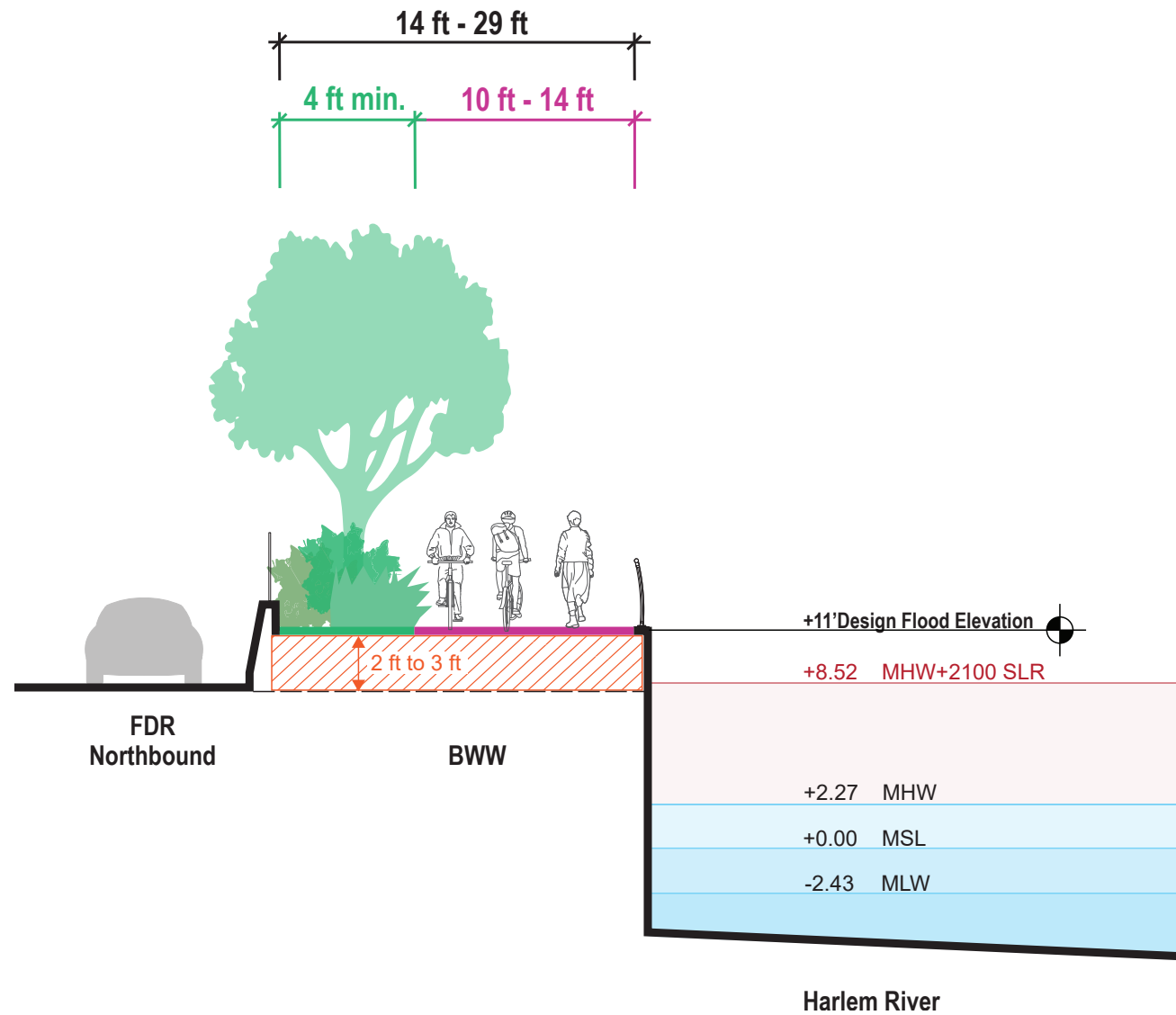
107th STREET PIER and BOBBY WAGNER WALK



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Concept Sections

Approved at Conceptual Review

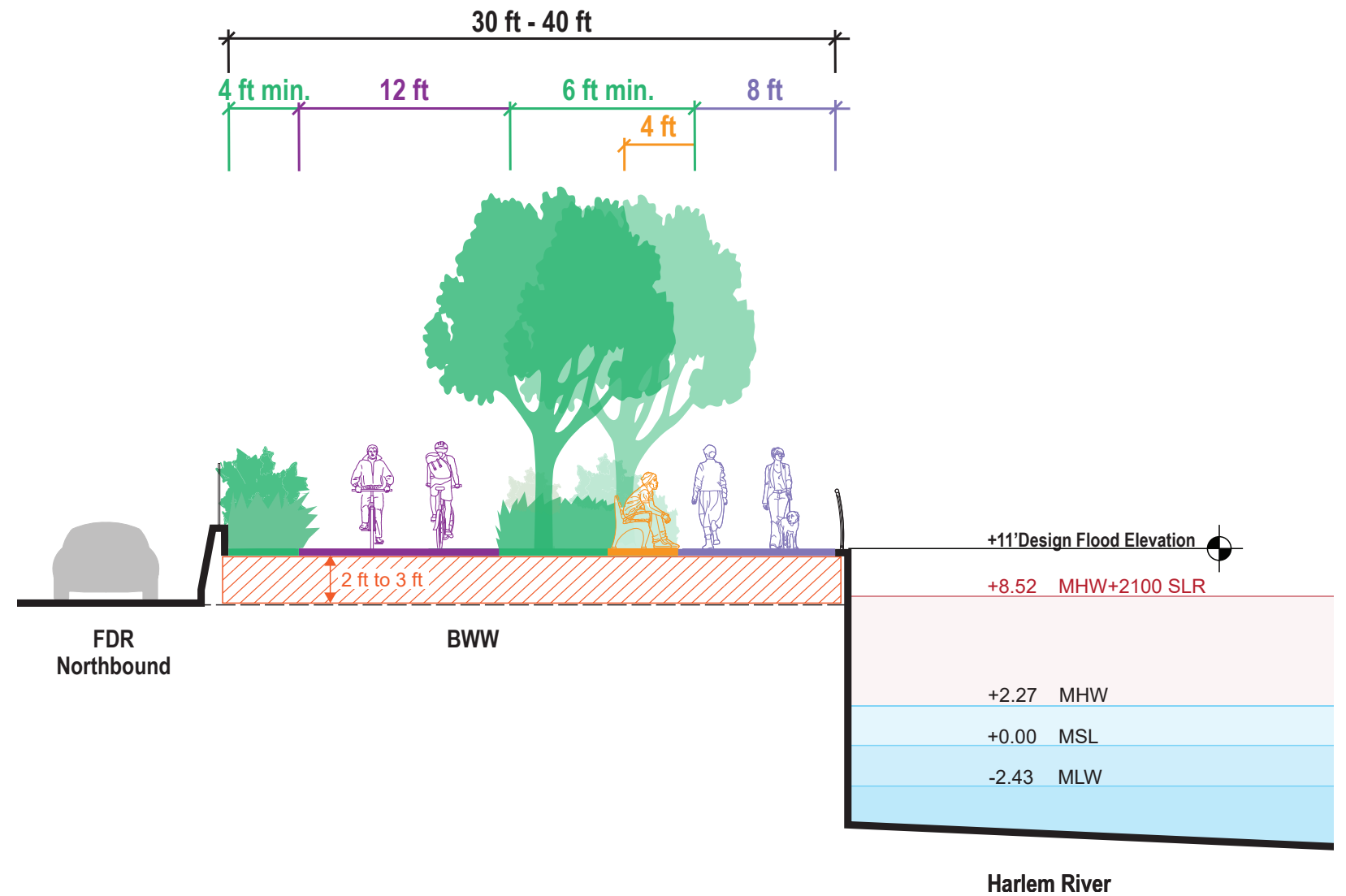


NARROWER ESPLANADE

Approximately 66 existing trees will be removed due to elevation of esplanade. Approximately 11 existing trees will be preserved, and 137 new trees will be planted.

Ecological enhancement opportunities along the water's edge is in study.

Subsurface conditions not shown for clarity. See slides 70 through 72 for structural sections, which vary by location.



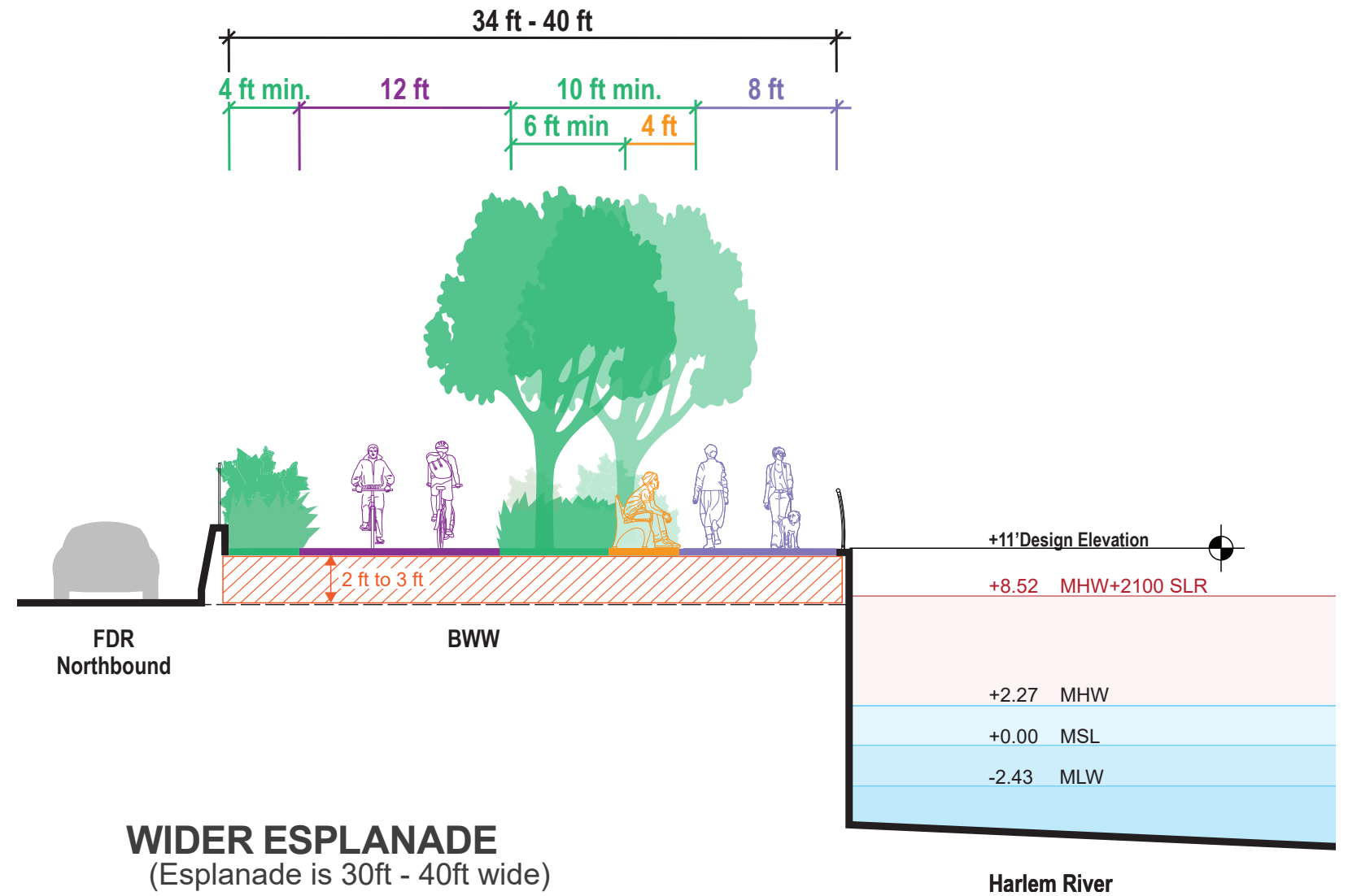
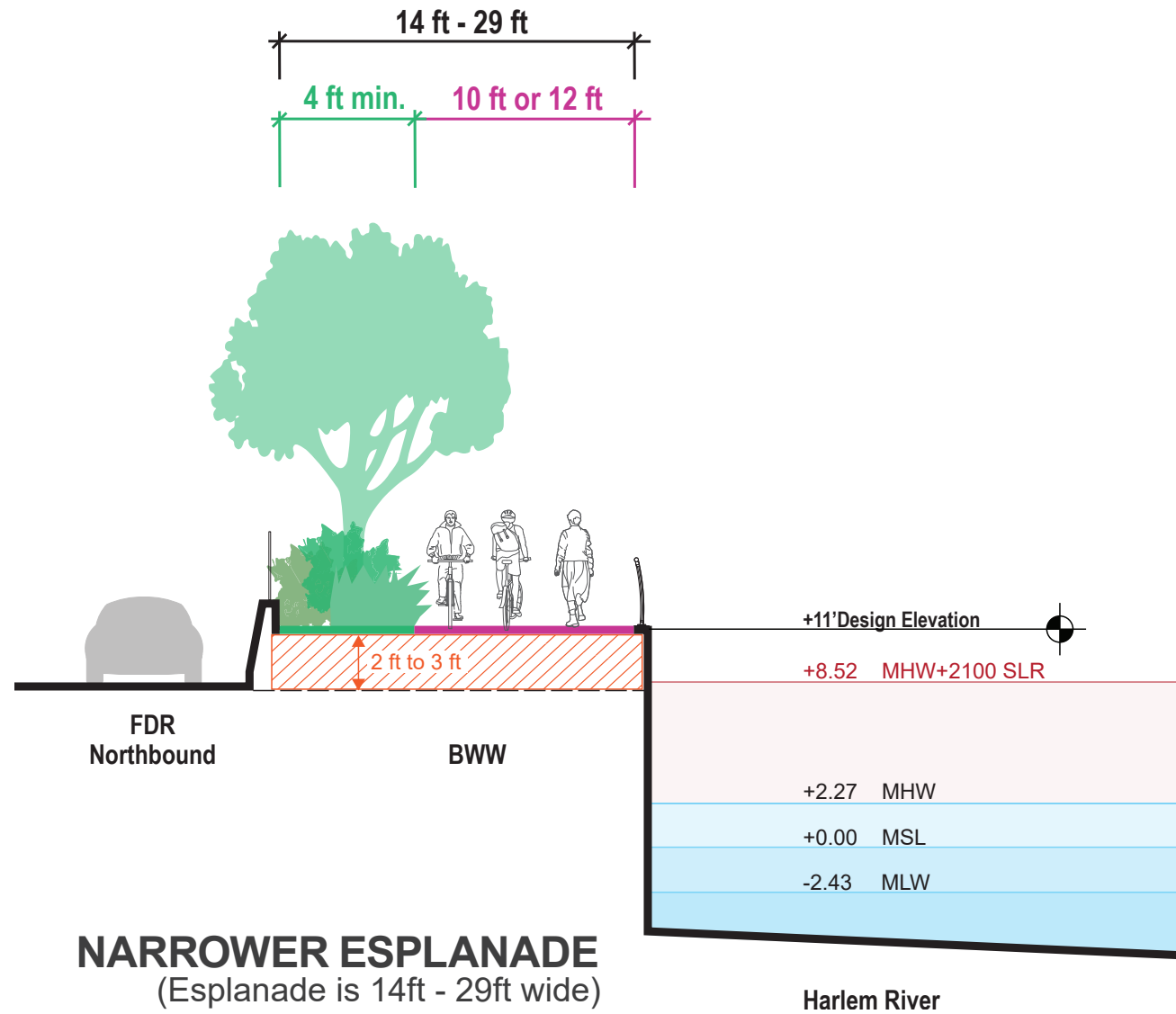
WIDER ESPLANADE

Design Parameters:

Planting minimum width: 4 ft
 Planting with shade tree minimum width: 6 ft
 Separated bike lane clearance: 12 ft

Separated walkway clearance: 8 ft
 Shared use path clearance: 14 ft
 Minimum shared use path clearance: 10 ft

ESPLANADE DESIGN PARAMETERS



- 69 existing trees will be removed due to raising elevation of esplanade by 2 to 3 feet. 11 existing trees will be preserved and 262 new trees will be planted.
- Ecological enhancement opportunities along the water's edge is in development.
- Subsurface conditions not shown for clarity. See slides 137 through 144 for structural sections, which vary by location.

REVISION: Existing tree removal quantity changed due to project limits extending to accommodate grade changes.

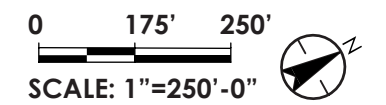
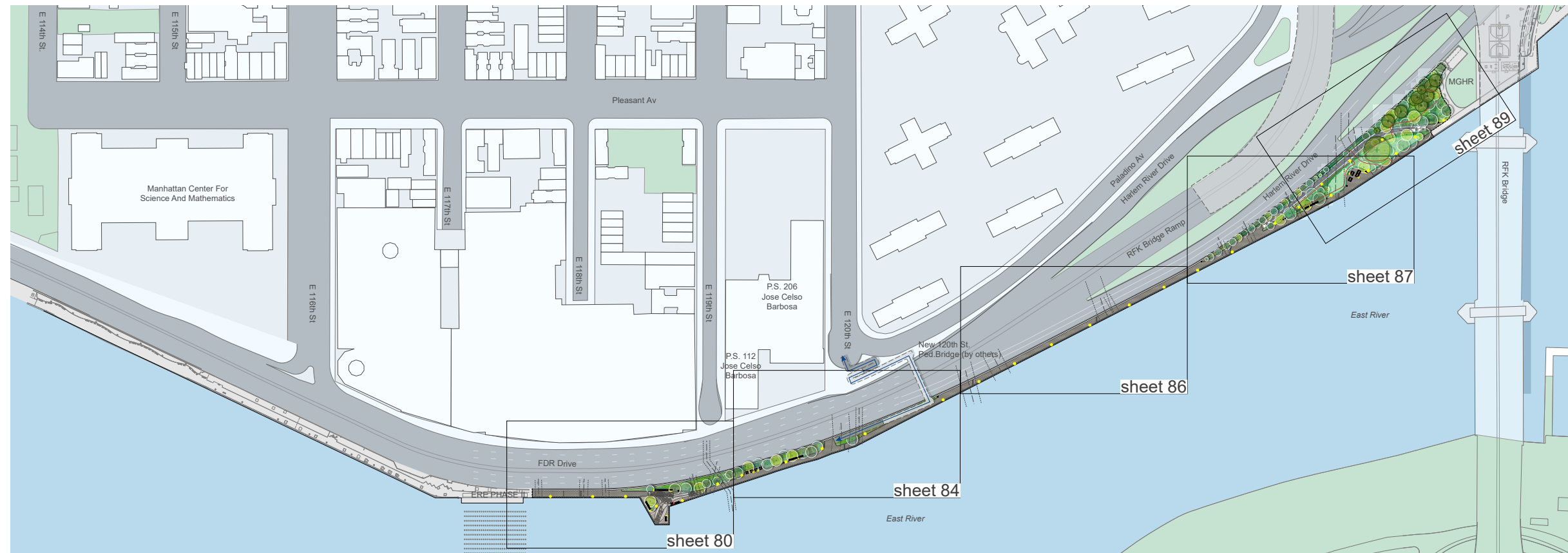
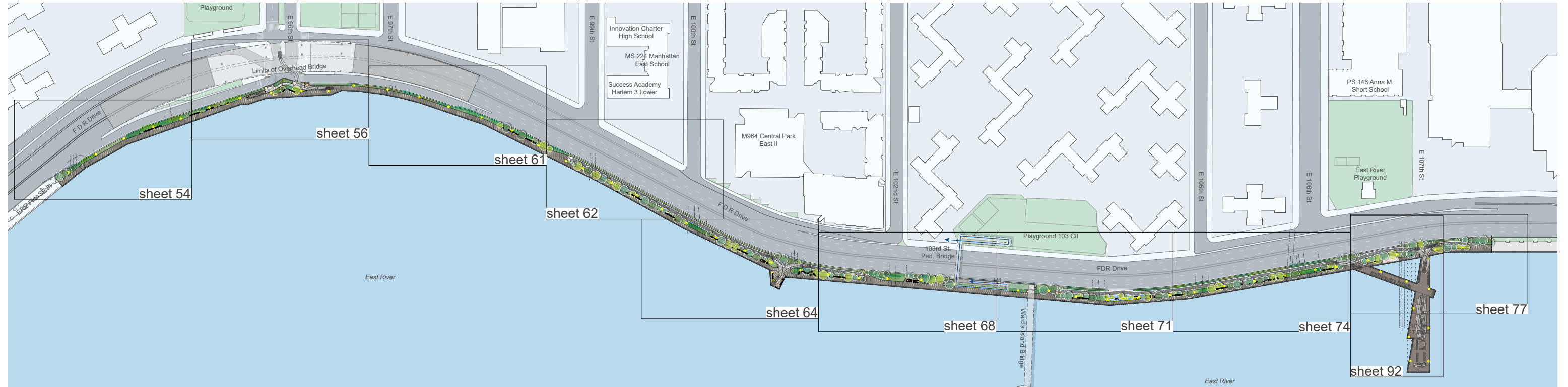
Design Parameters:

- Planting minimum width: 4 ft
- Planting with shade tree minimum width: 6 ft
- Separated bike lane clearance: 12 ft

Separated walkway clearance: 8 ft
Shared use path clearance: 12 ft typ., 10 ft min.

REVISION: Minimum clearance changed due to aligning FDR barrier to existing face of wall.

Preliminary Plan | Overall

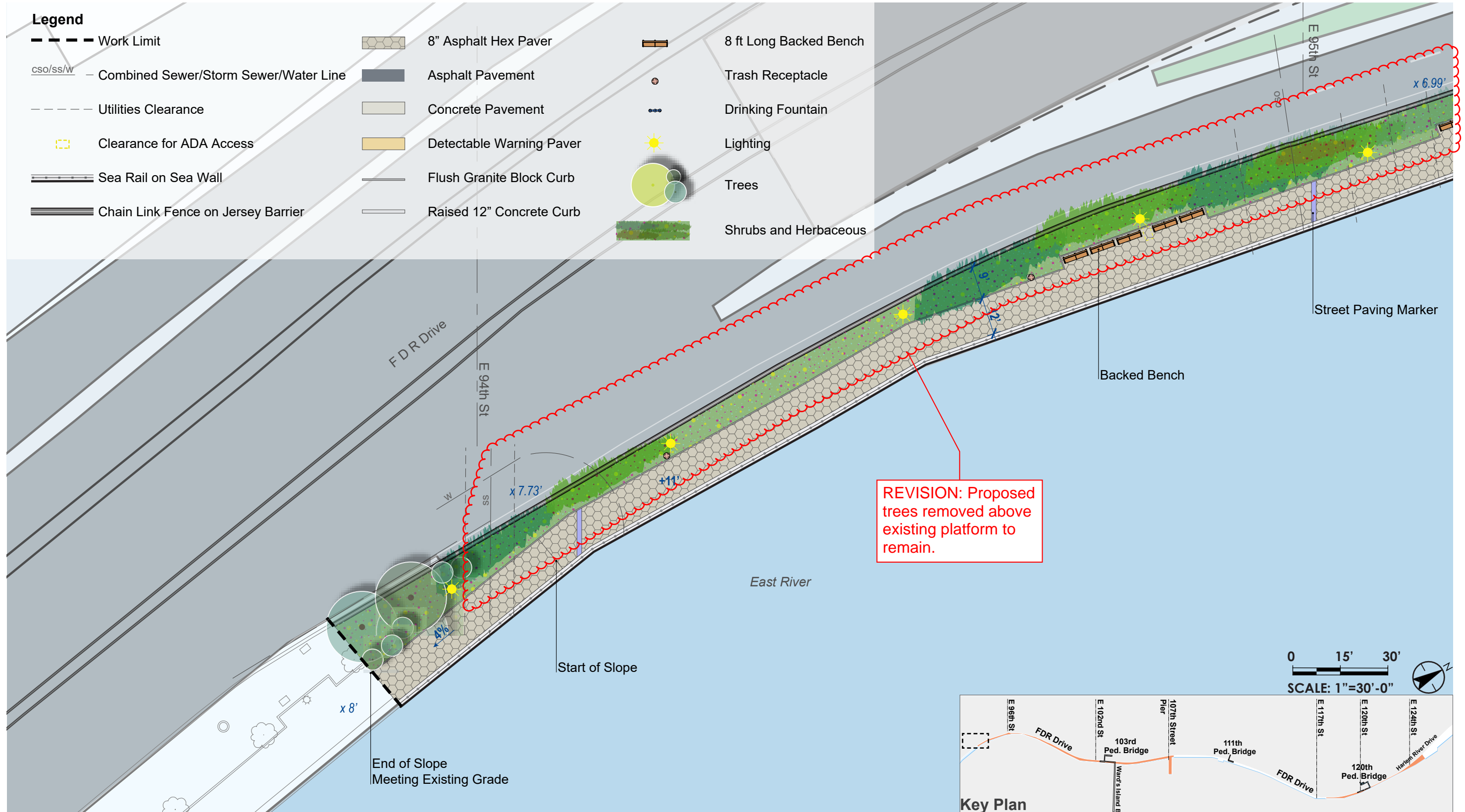


107th STREET PIER and BOBBY WAGNER WALK



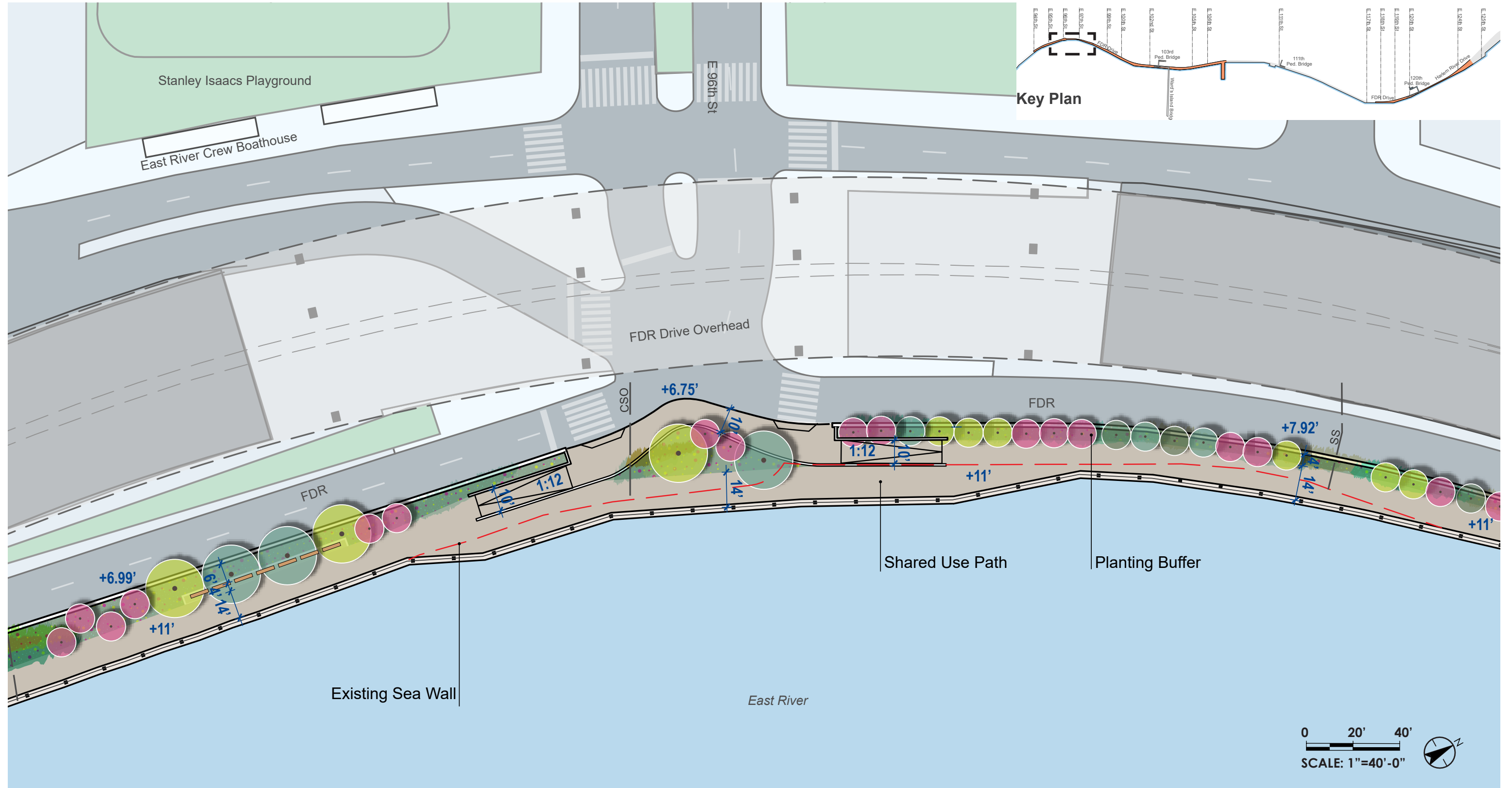
Stantec MARVEL phyto

Preliminary Plan | 94th-95th Street

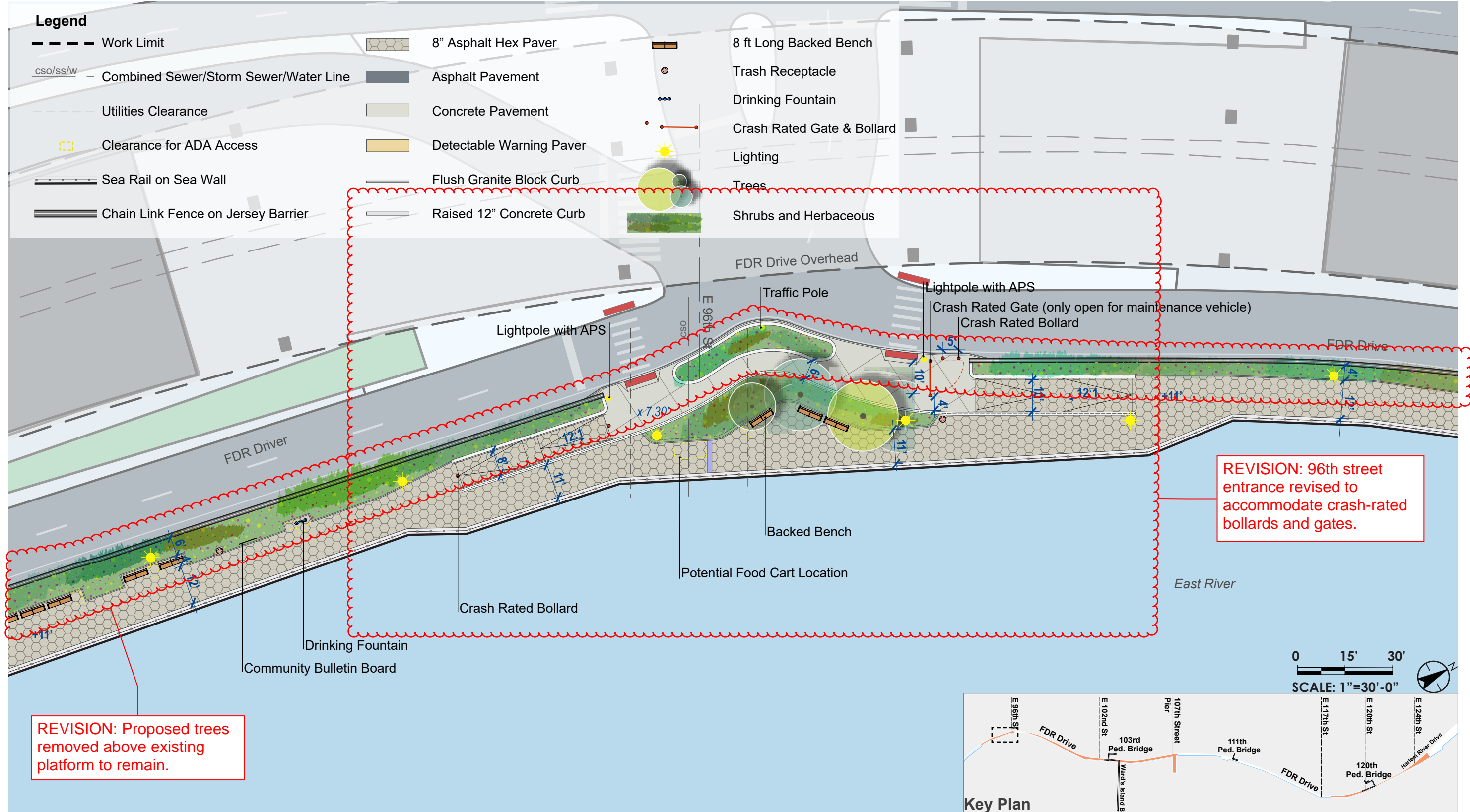


Enlargement | 96th Street Entrance

Approved at Conceptual Review



Preliminary Plan | 95th-96th Street



Rendering - 96th Street Entrance



107th STREET PIER and BOBBY WAGNER WALK

Rendering - 96th Street Entrance



107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

Rendering - 96th Street Entrance



107th STREET PIER and BOBBY WAGNER WALK

Rendering - 96th Street Entrance

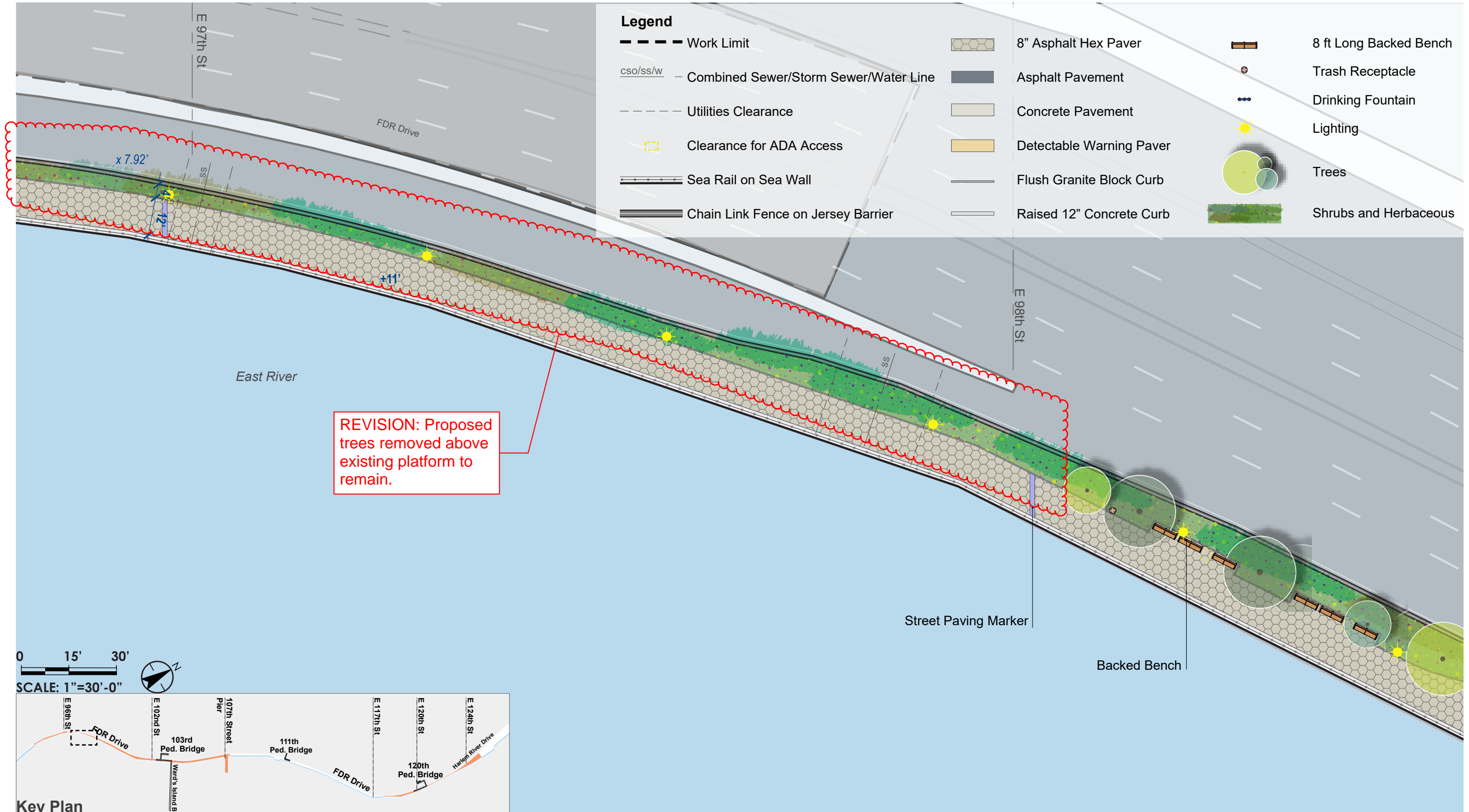


107th STREET PIER and BOBBY WAGNER WALK

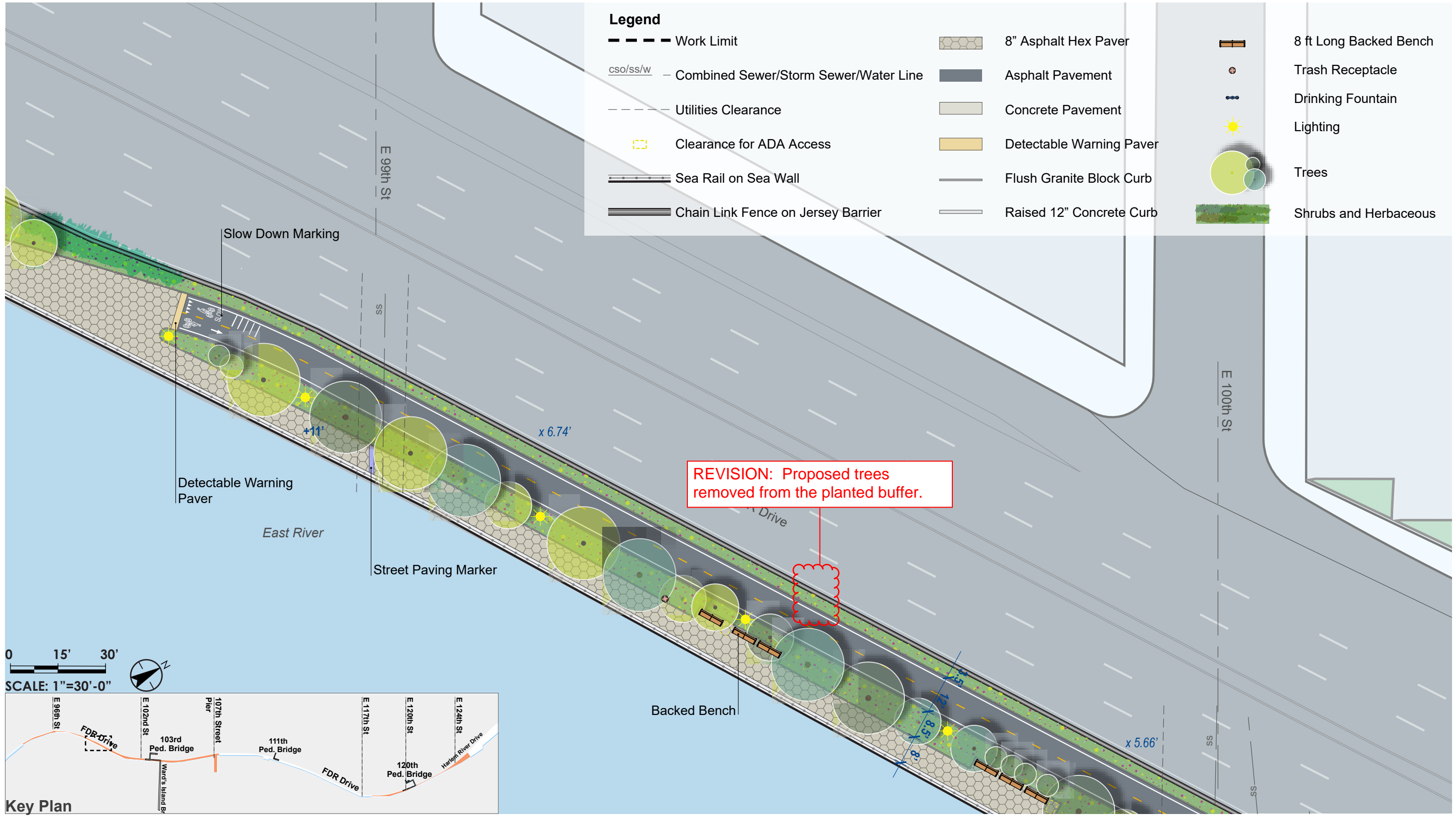


Stantec MARVEL phyto

Preliminary Plan | 97th-98th Street



Preliminary Plan | 99th-100th Street



107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

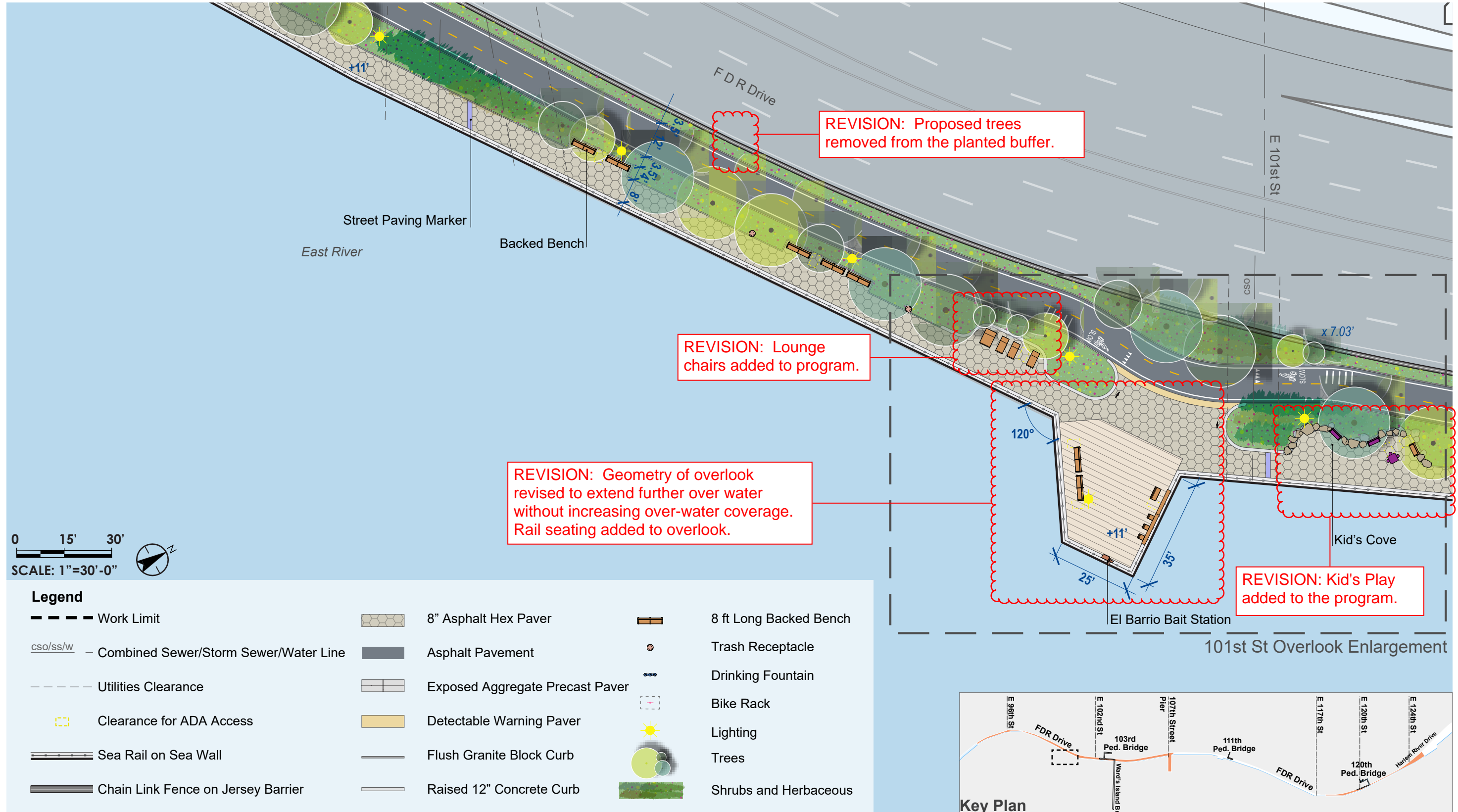
Enlargement | Harbor View

Approved at Conceptual Review

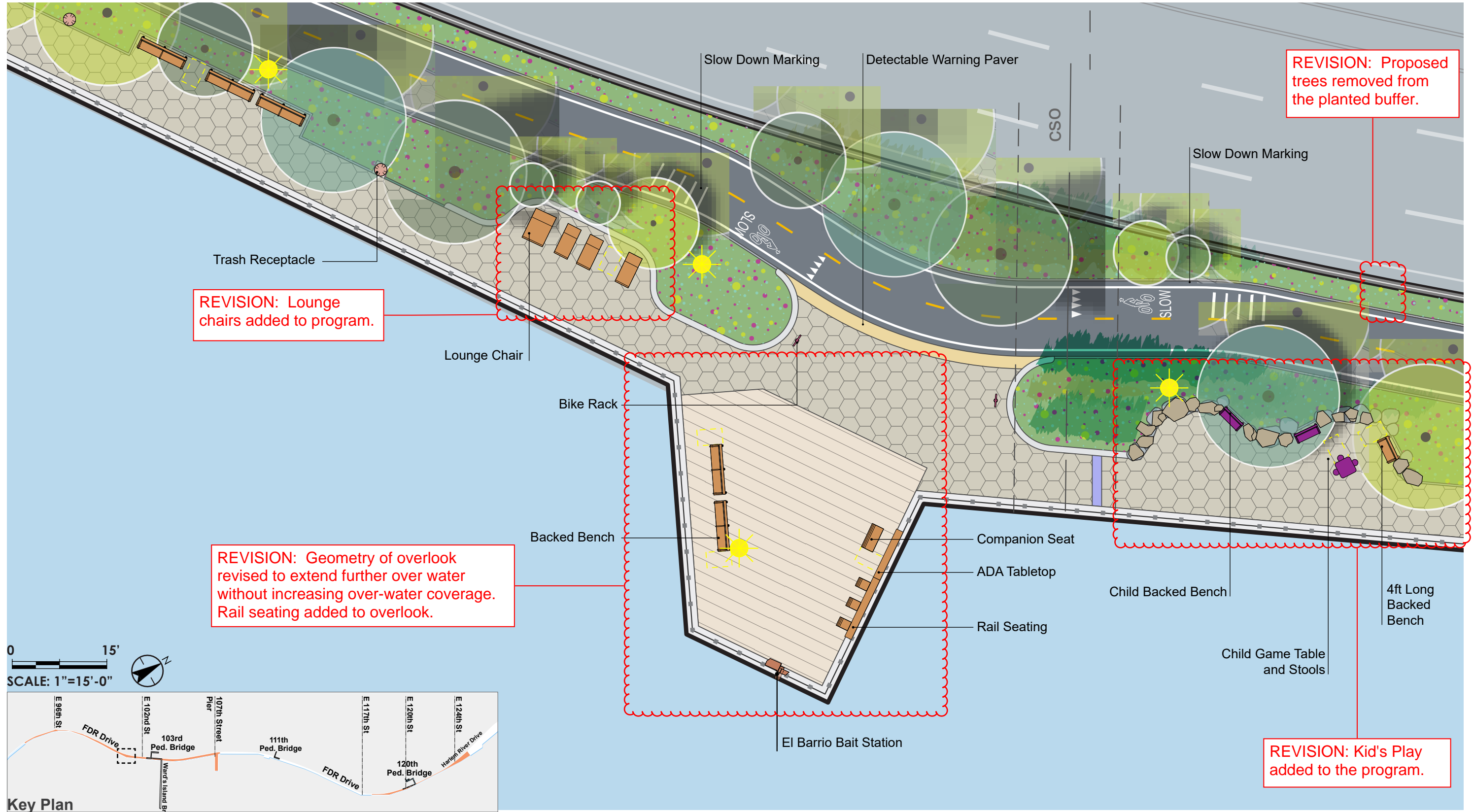


107th STREET PIER and BOBBY WAGNER WALK

Preliminary Plan | 101st-102nd Street



101st Street Overlook



107th STREET PIER and BOBBY WAGNER WALK

101st Street Overlook



107th STREET PIER and BOBBY WAGNER WALK



101st Street Overlook



107th STREET PIER and BOBBY WAGNER WALK



Preliminary Plan | 102nd-103rd Street



107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

Typical Ped/Bike Merge Point at 102nd Street



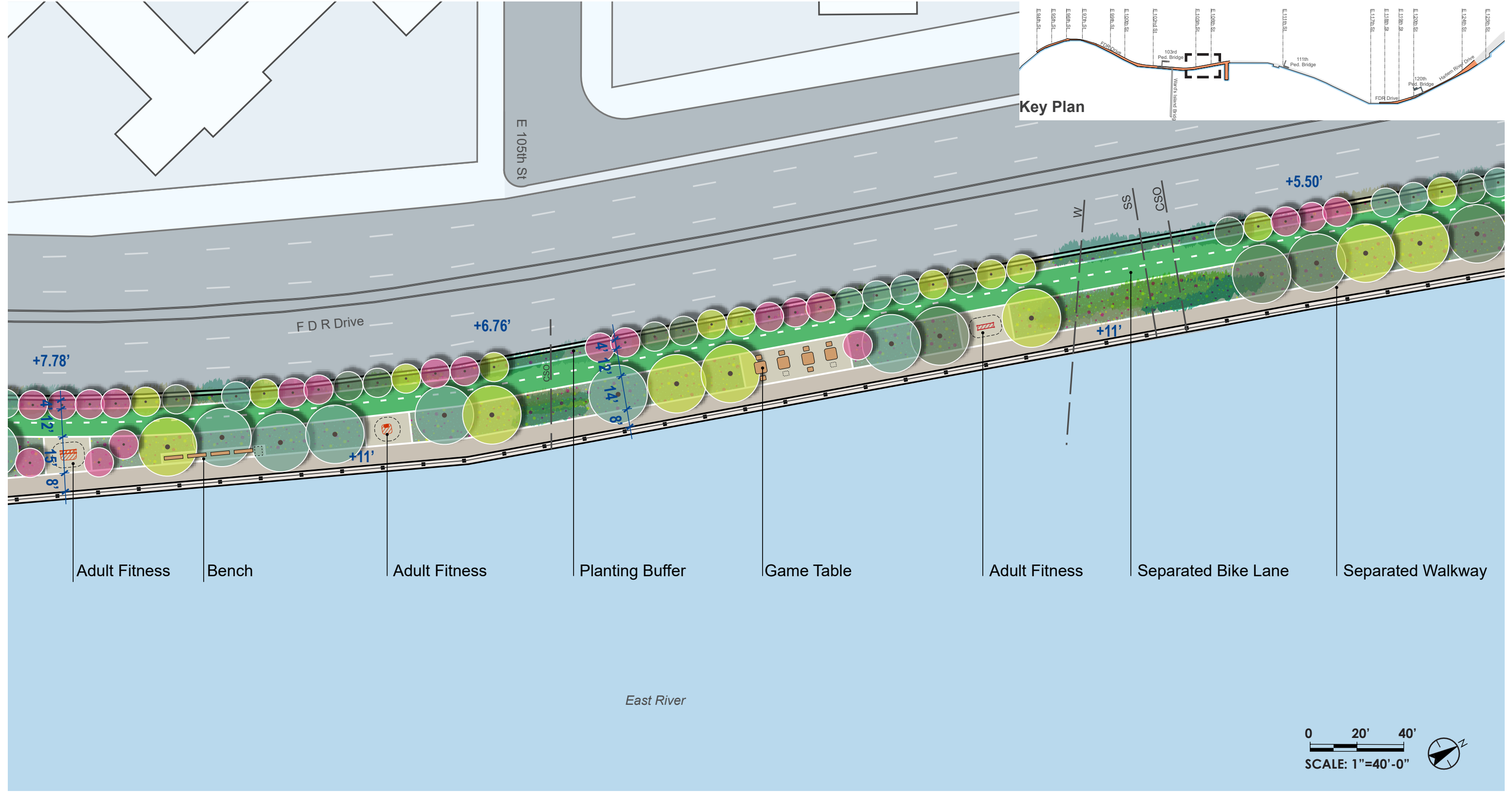
107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

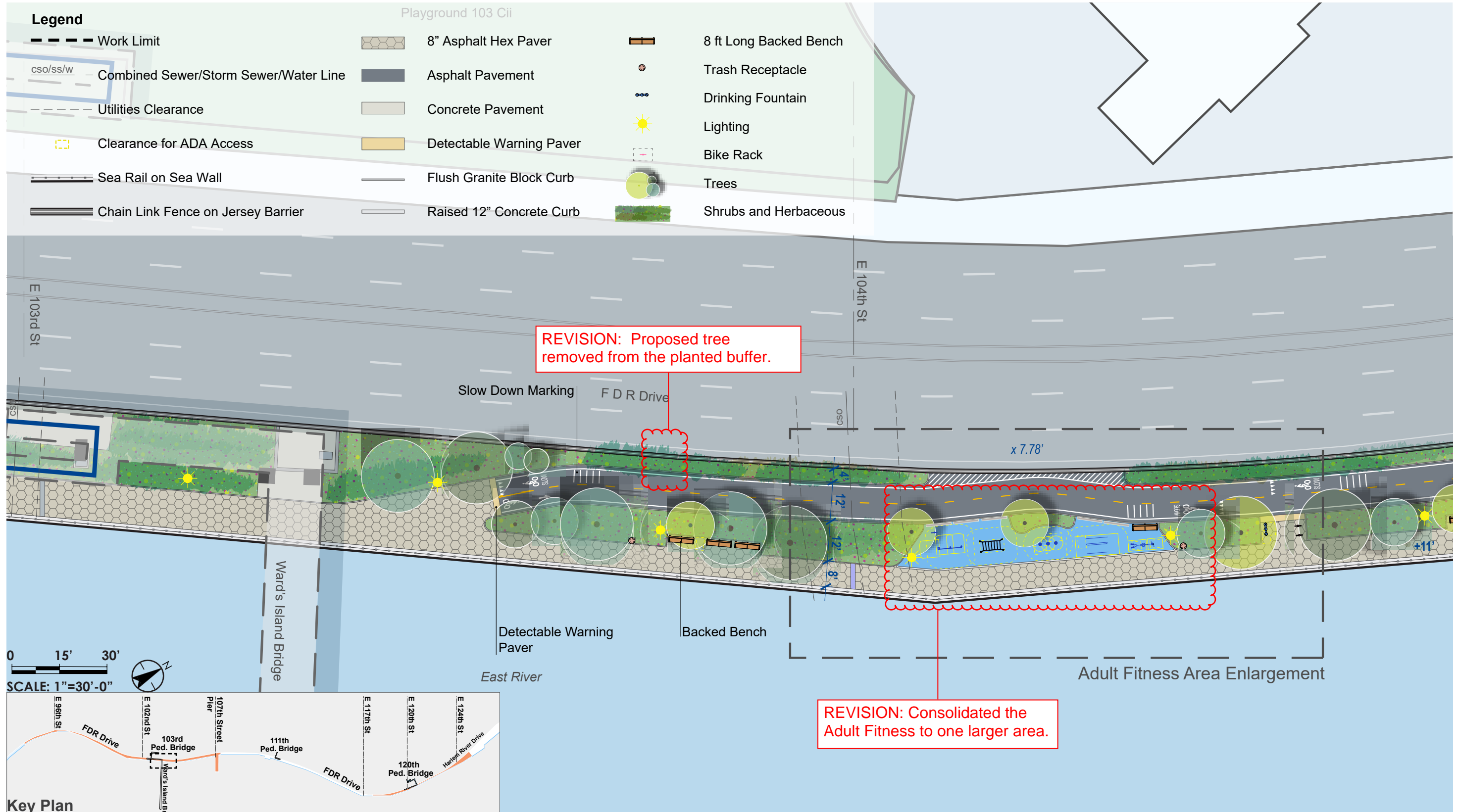
Enlargement | Pier Approach

Approved at Conceptual Review

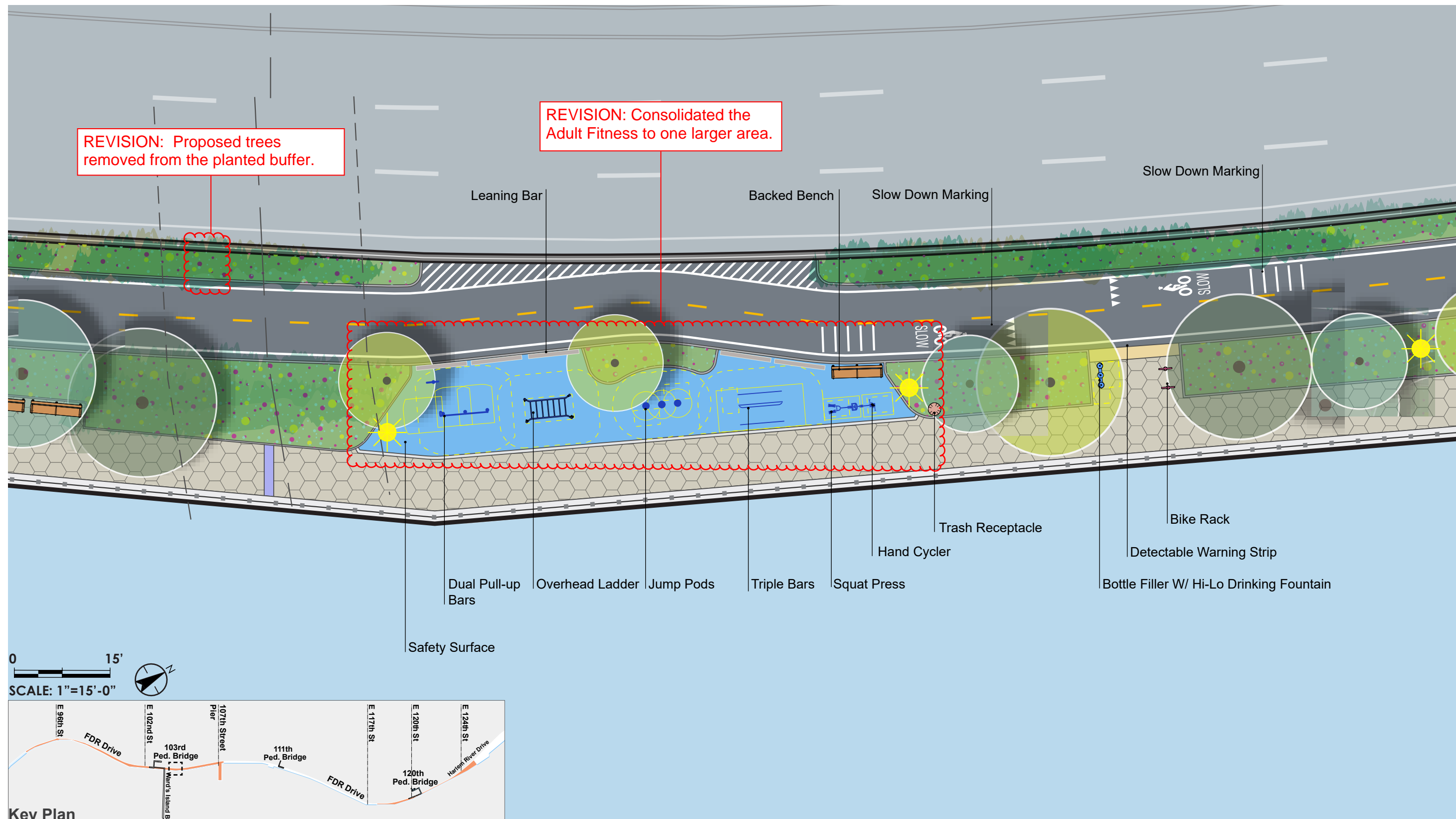


107th STREET PIER and BOBBY WAGNER WALK

Preliminary Plan | 103rd-104th Street



Adult Fitness Area



107th STREET PIER and BOBBY WAGNER WALK



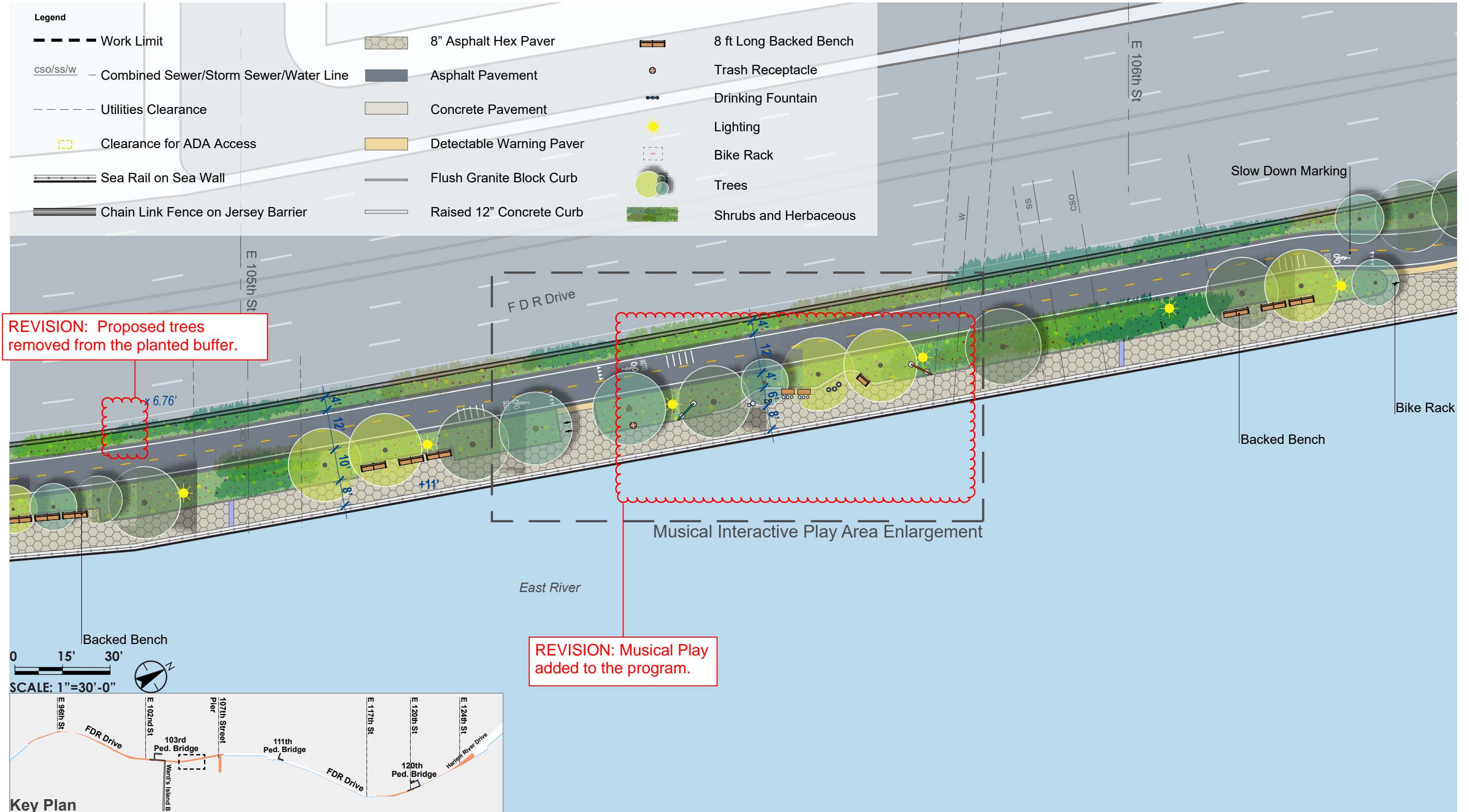
Stantec MARVEL phyto

Adult Fitness Area

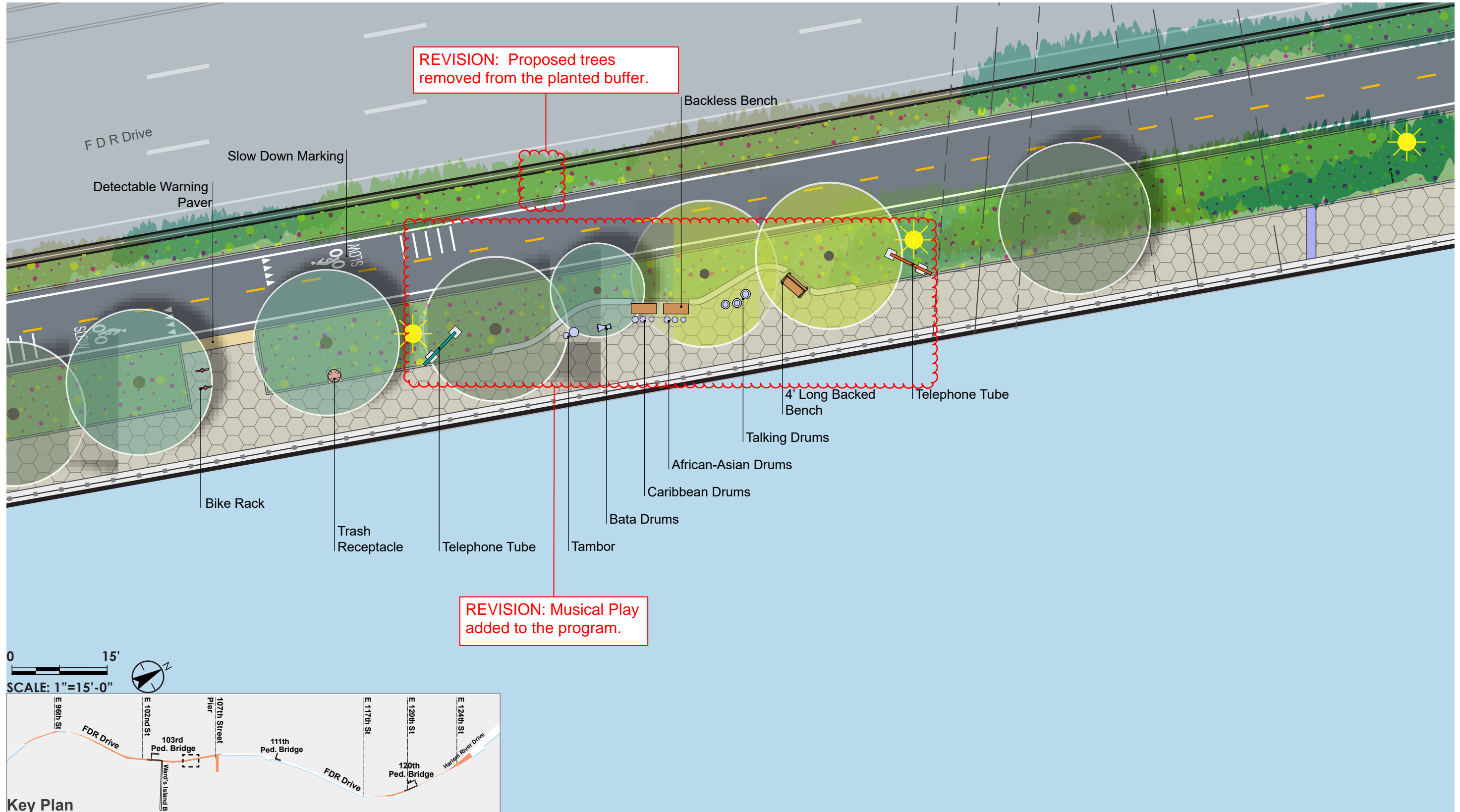


107th STREET PIER and BOBBY WAGNER WALK

Preliminary Plan | 105th-106th Street



Musical Interactive Play Area



107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

Musical Interactive Play Area

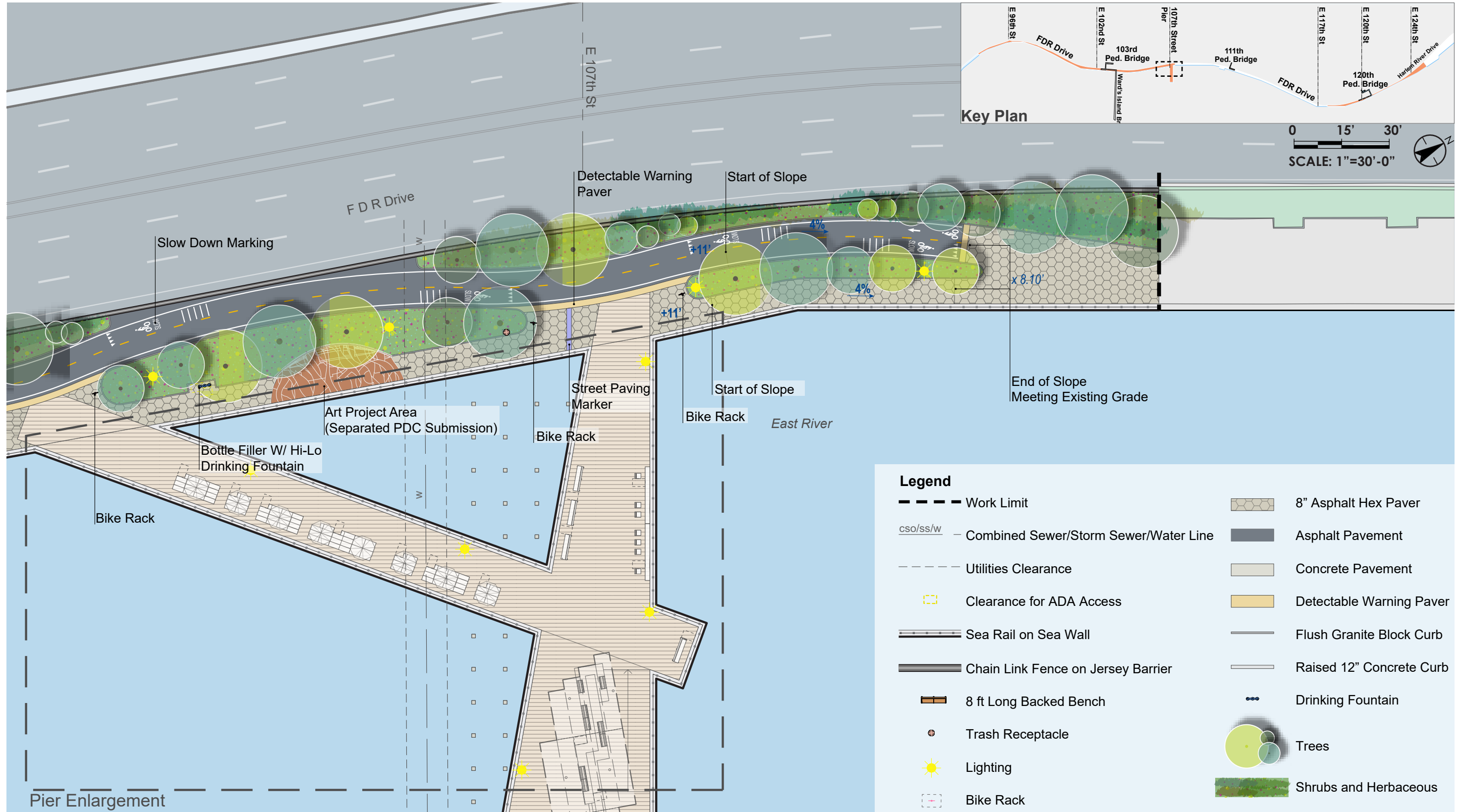


107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

Preliminary Plan | 107th Street



107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

Typical Separated Bike Lane and Walkway at 106th Street



107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

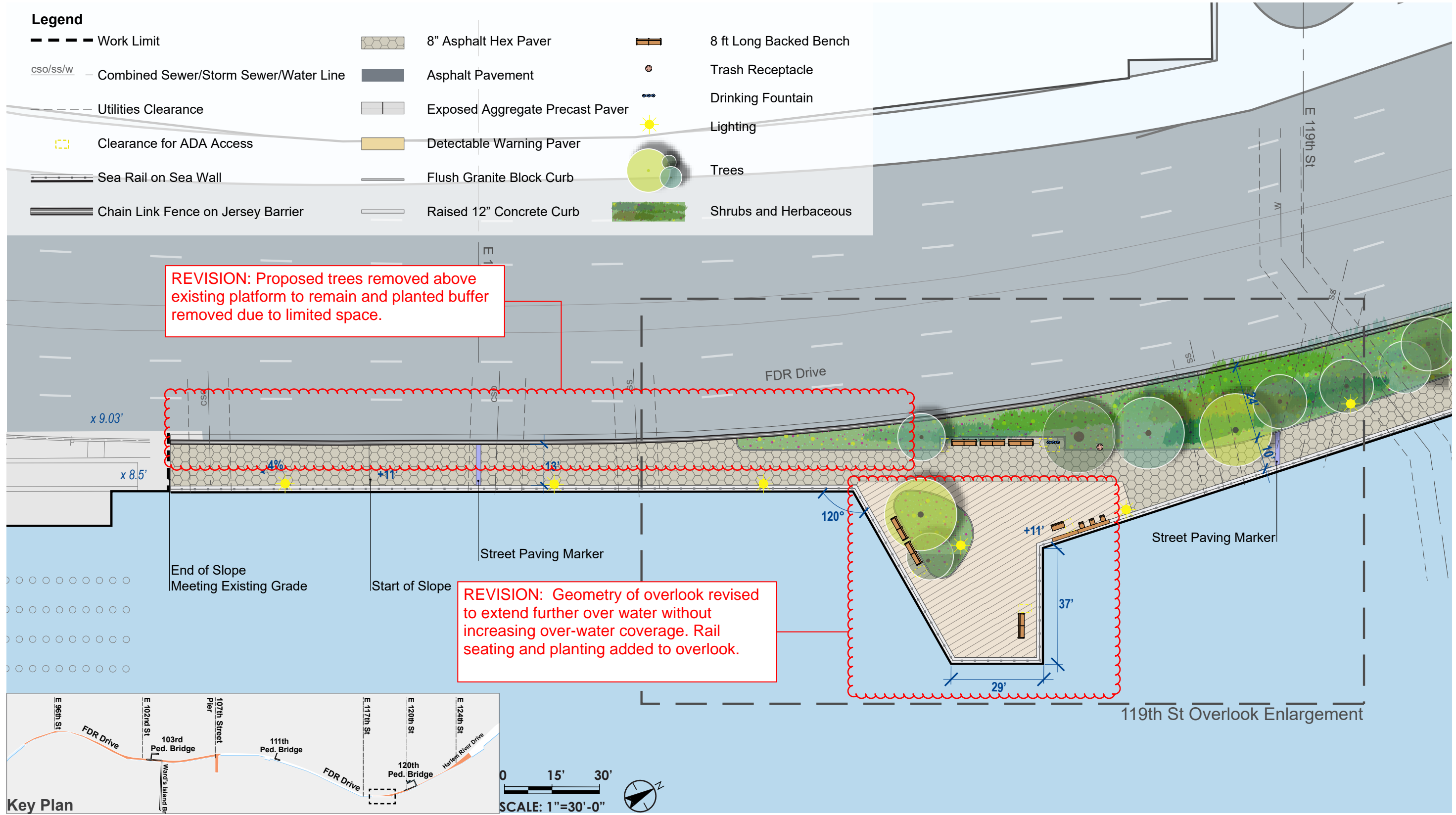
Enlargement | Northern Stretch

Approved at Conceptual Review

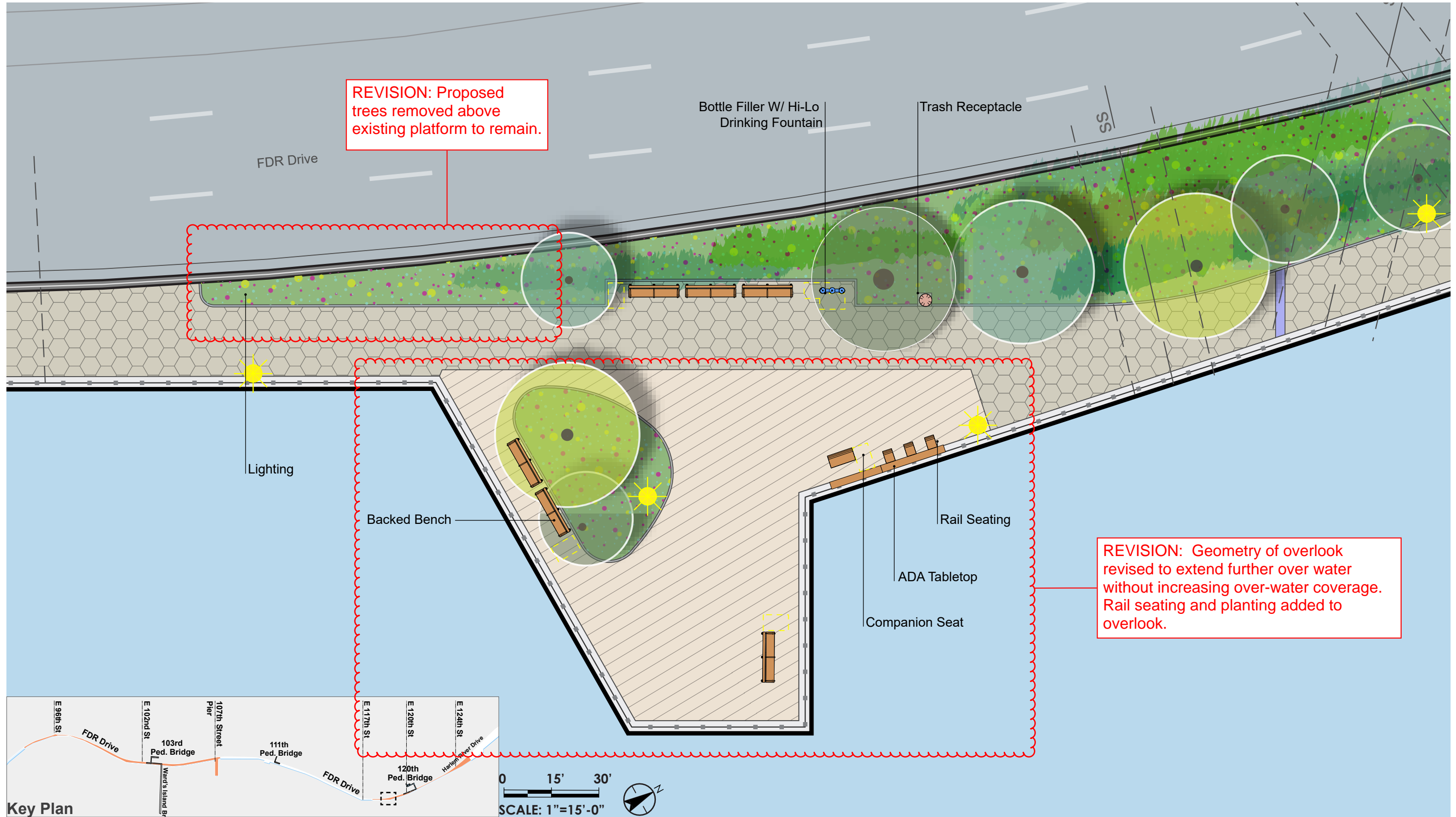


107th STREET PIER and BOBBY WAGNER WALK

Preliminary Plan | 117th-119th Street



119th Street Overlook



119th Street Overlook



107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

119th Street Overlook

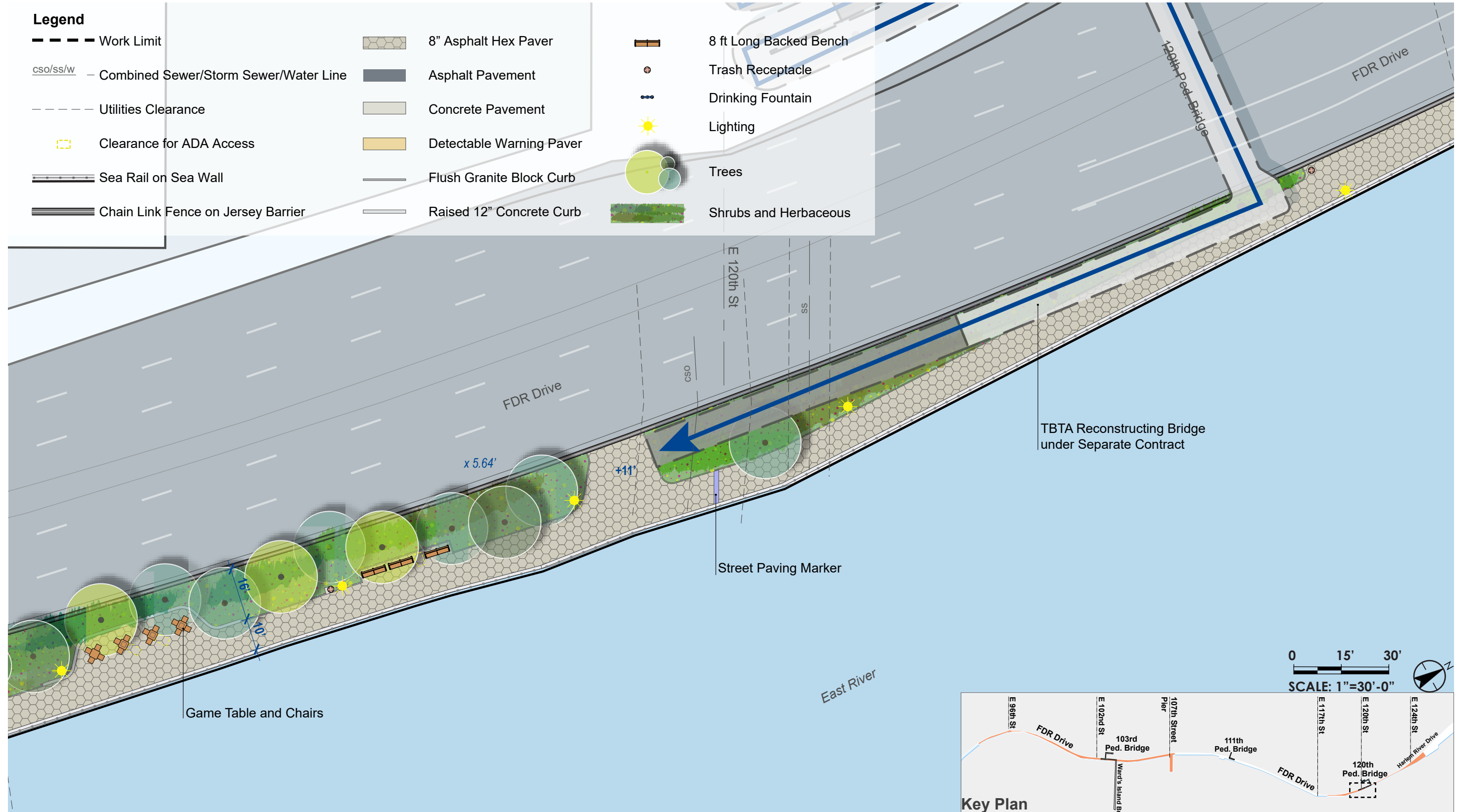


107th STREET PIER and BOBBY WAGNER WALK



MARVEL phyto

Preliminary Plan | 120th-121st Street



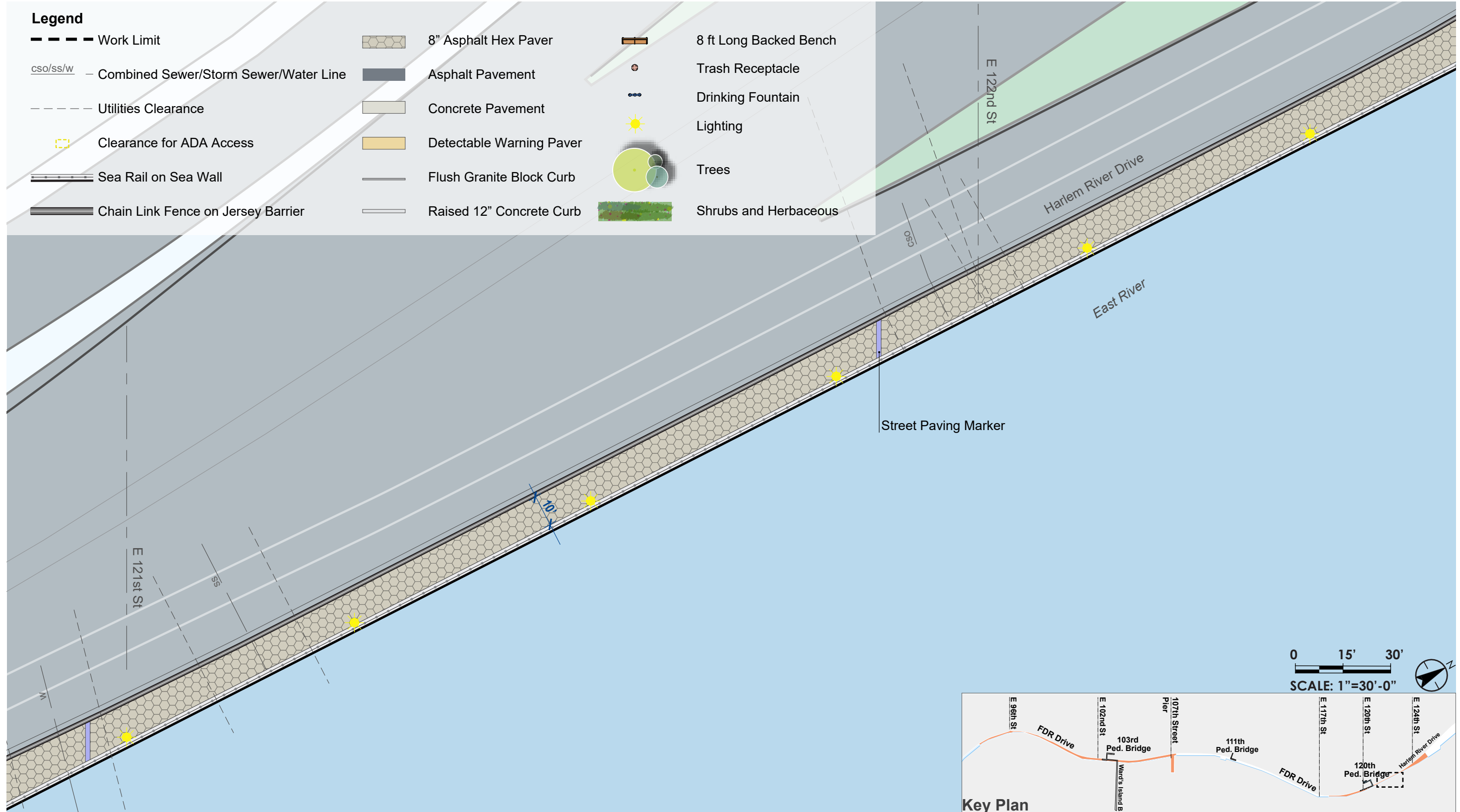
Typical Shared Use Path at 120th Street



107th STREET PIER and BOBBY WAGNER WALK



Preliminary Plan | 121st-122nd Street

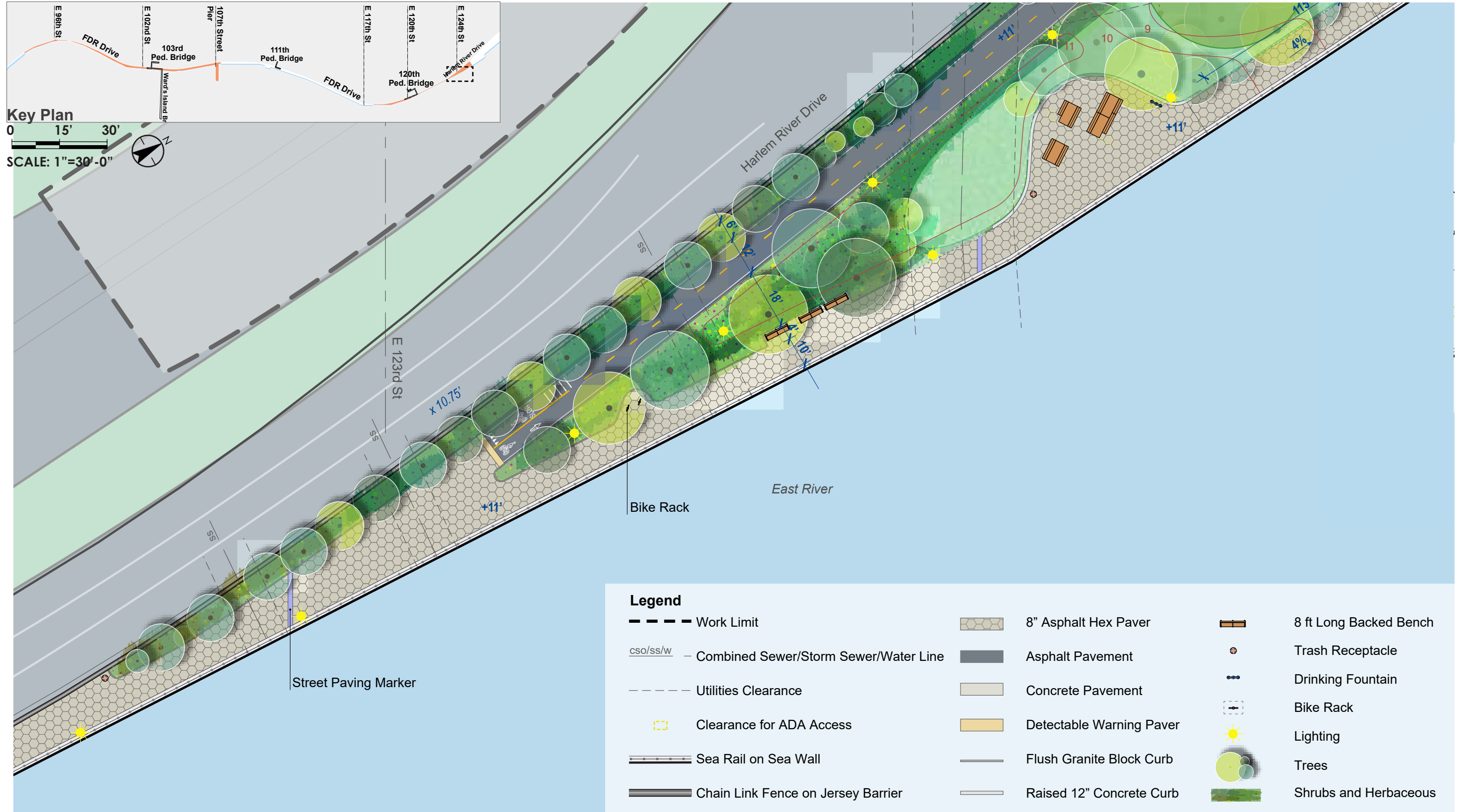


107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

Preliminary Plan | 123rd-124th Street



107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

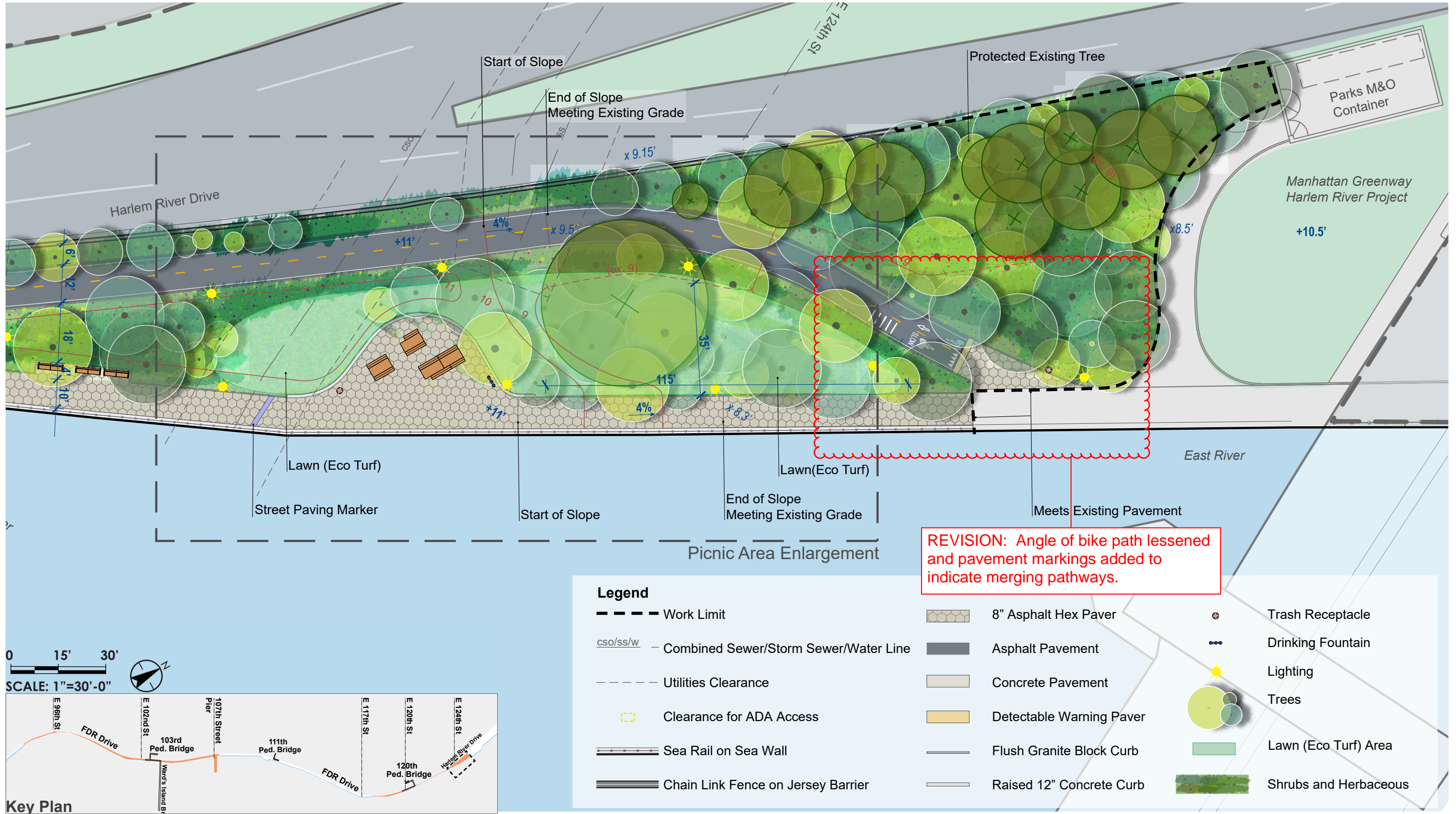
Enlargement | Garden

Approved at Conceptual Review

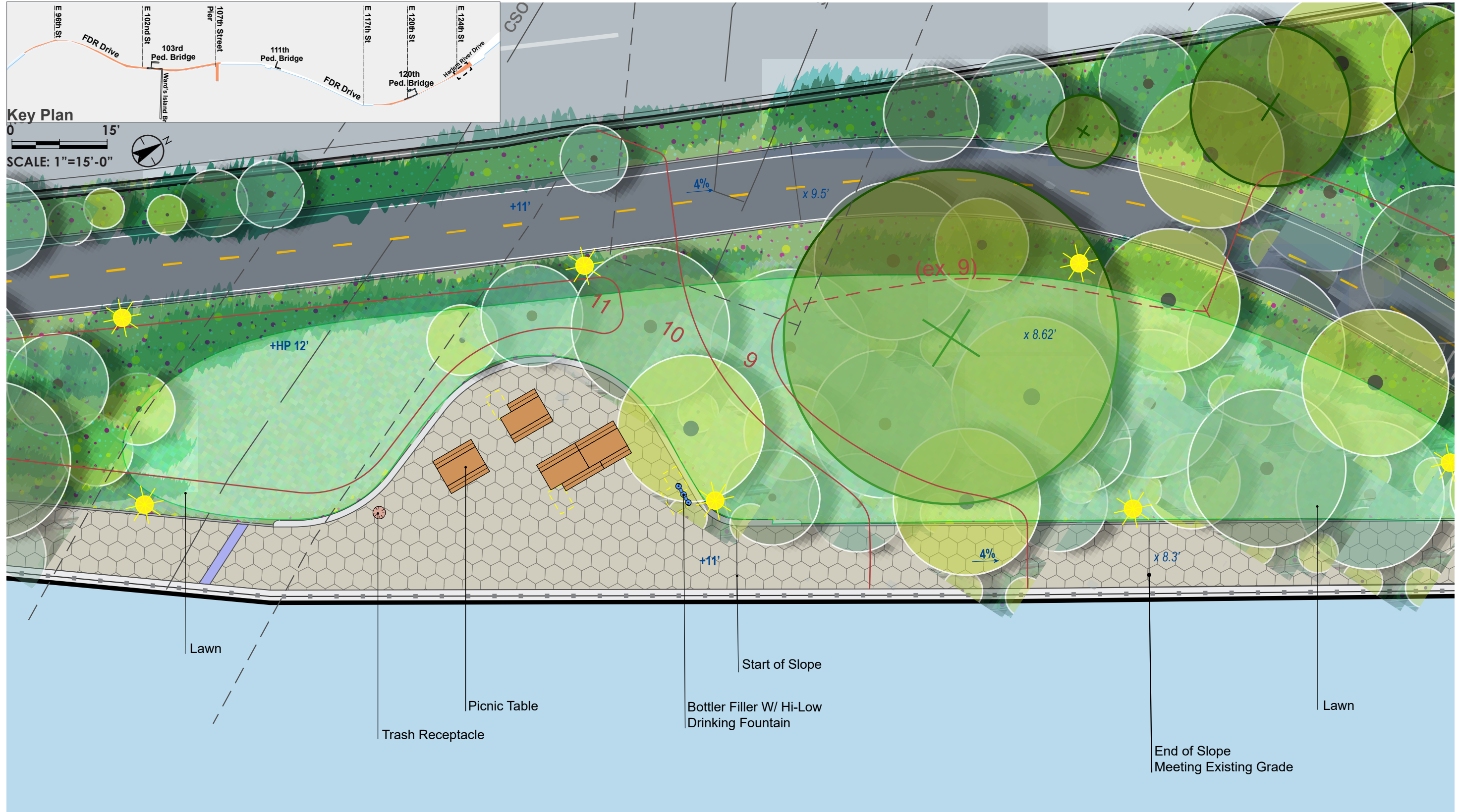


107th STREET PIER and BOBBY WAGNER WALK

Preliminary Plan | 124th-125th Street



Lawn and Picnic Area



Lawn and Picnic Area

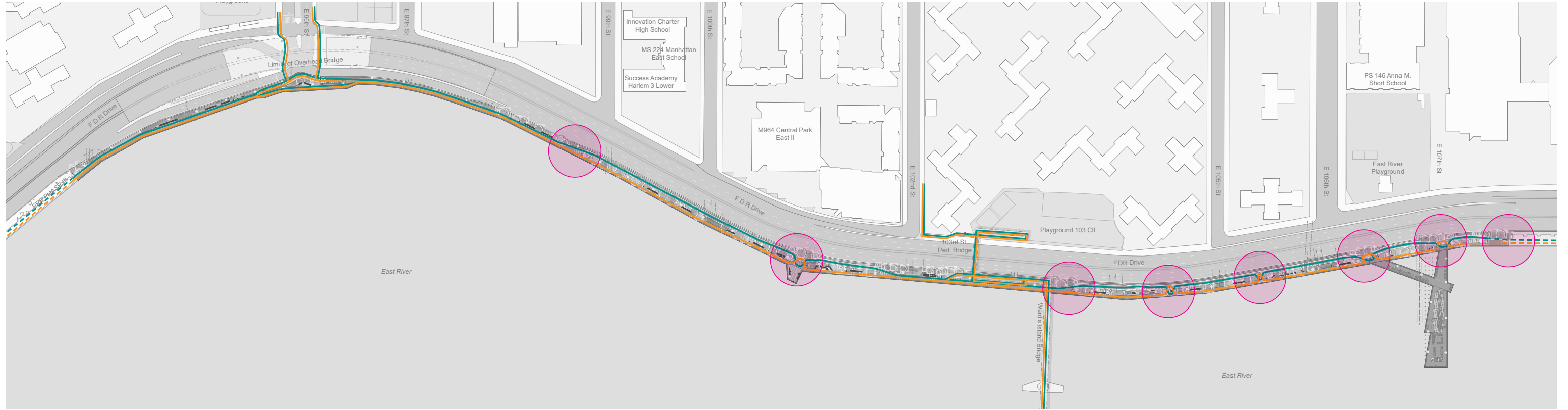


107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

Pedestrian & Bicycle Circulation



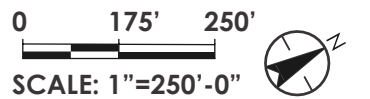
94TH - 107TH ST.



117TH - 125TH ST.

LEGEND

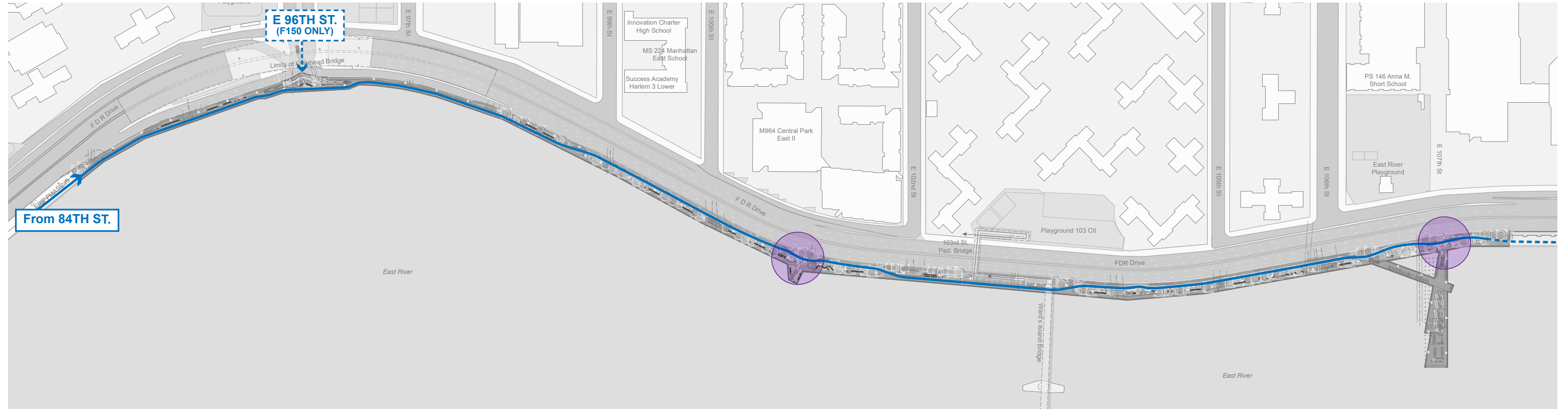
- Pedestrian Route
- Bicycle Route
- Bike / Pedestrian Merge Point



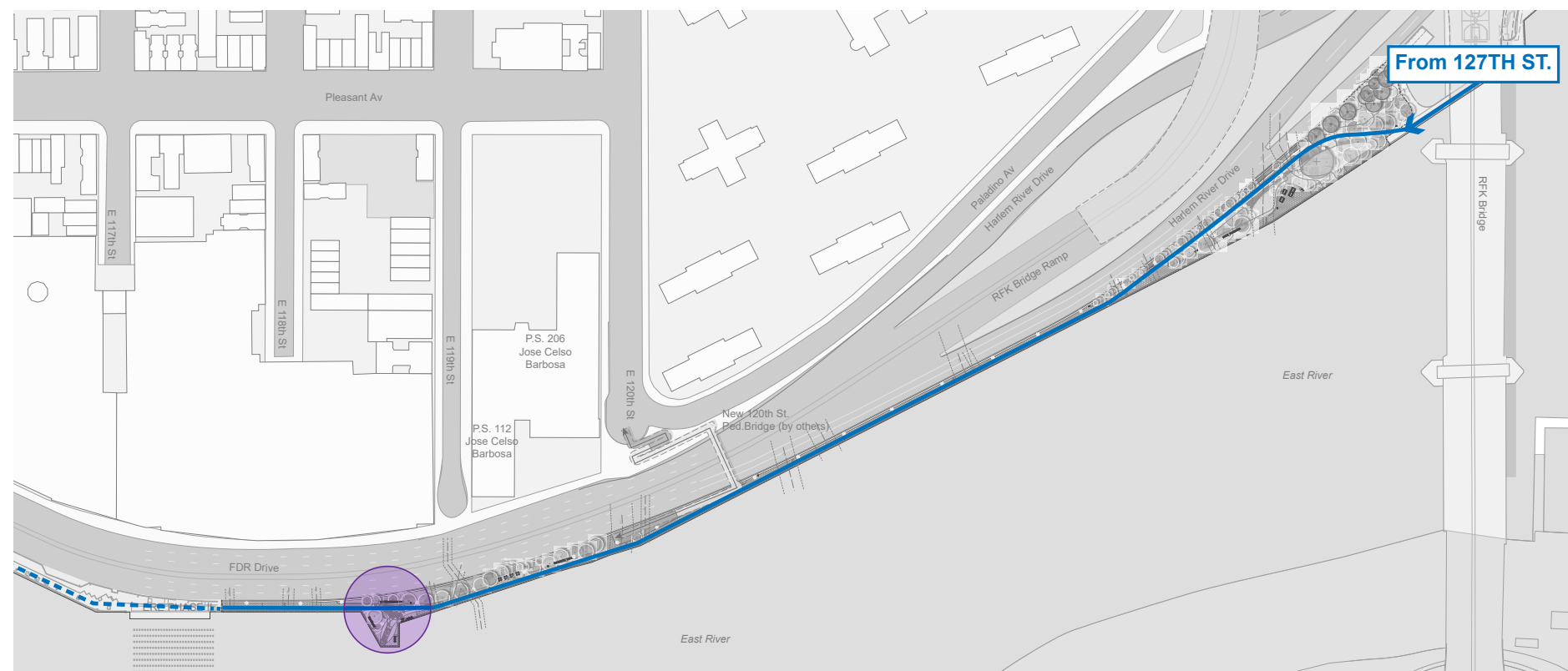
107th STREET PIER and BOBBY WAGNER WALK



Maintenance Vehicle Circulation



94TH - 107TH ST.



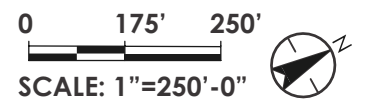
117TH - 125TH ST.

DESIGN VEHICLE

NYC DEP Maintenance Vehicle: HS20 / SU-30
 NYC Parks Maintenance Vehicle: F150, Size: 19'L x 7'W
 Minimum Path Clearance Required: 10 ft

LEGEND

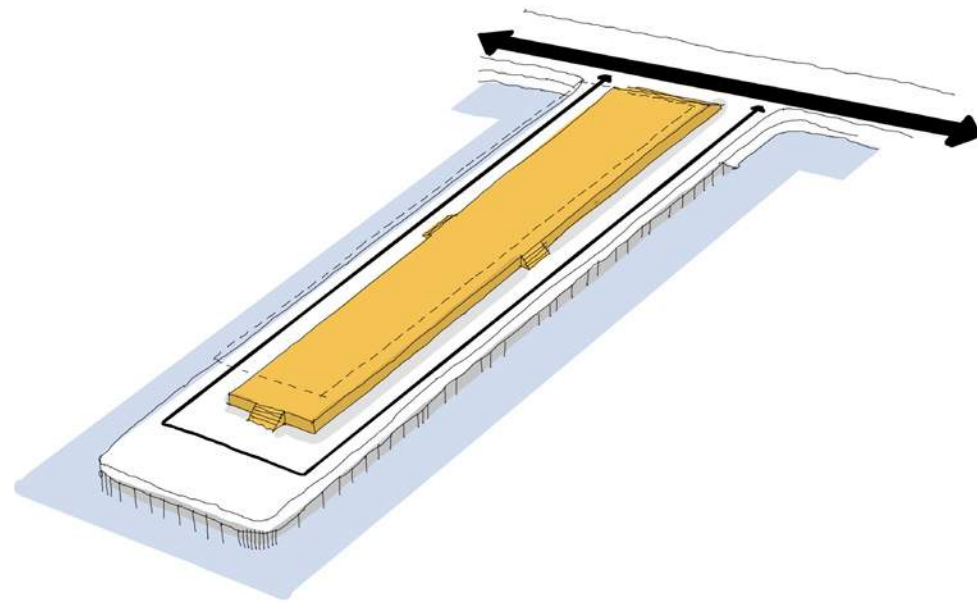
- Vehicle Route
- Turnaround Point



107th STREET PIER and BOBBY WAGNER WALK

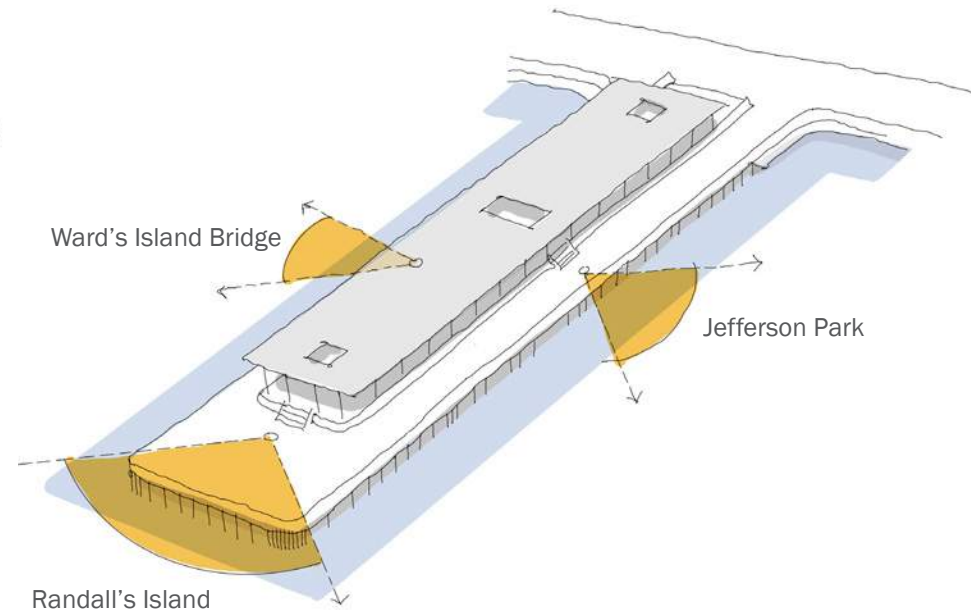


Existing 107th Street Pier | Site Observations



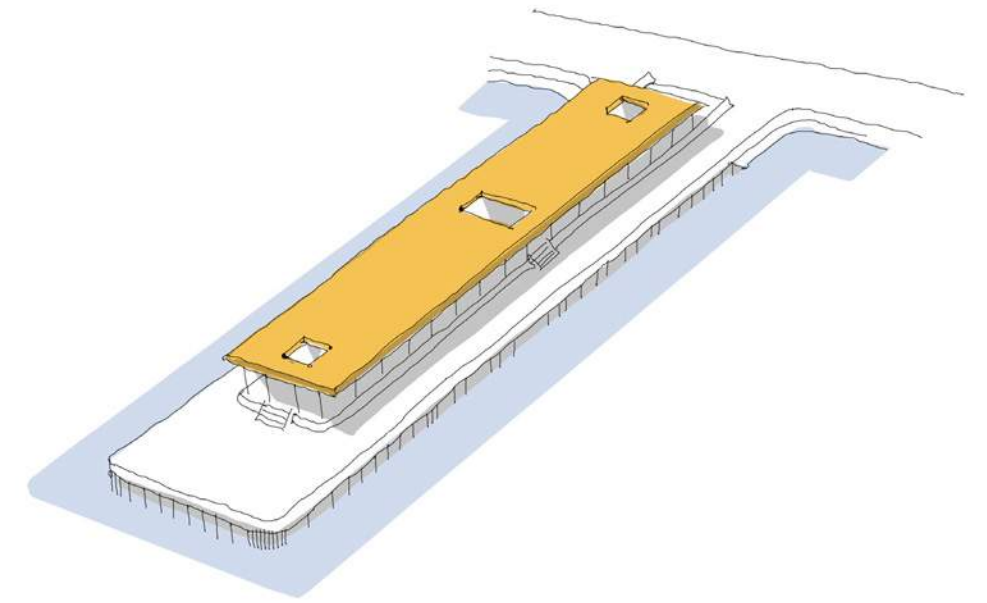
CIRCULATION

The existing pier is separated from the flow of circulation along the esplanade, and the raised central platform is only accessible by stairs.



IEWS

The end of the pier offers unobstructed views towards the river. Other elements are oriented towards views of the city.

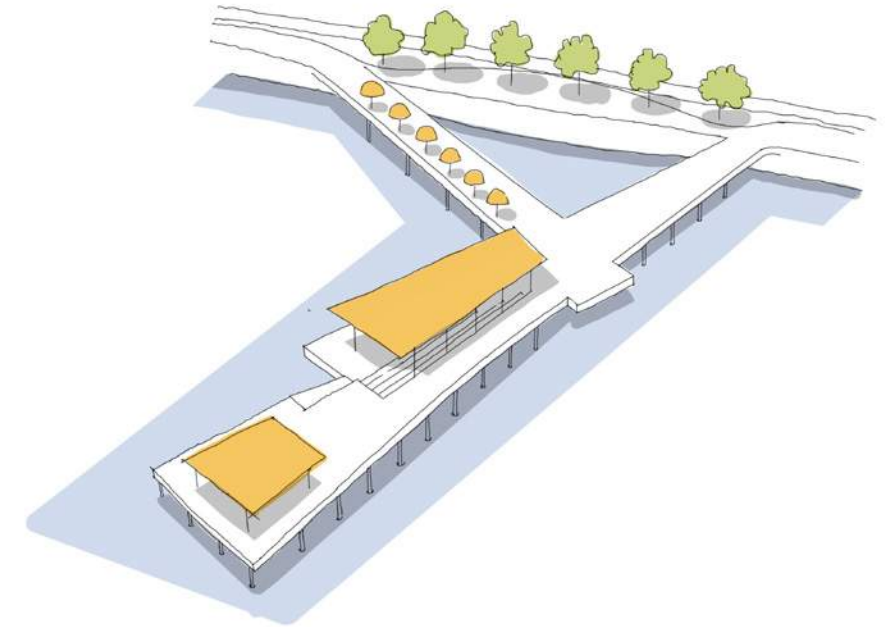
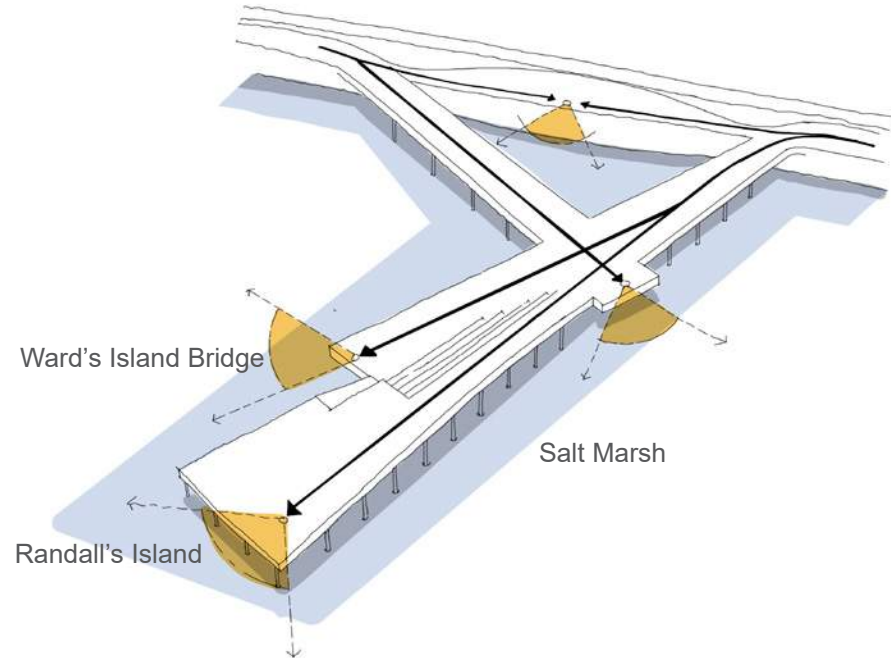
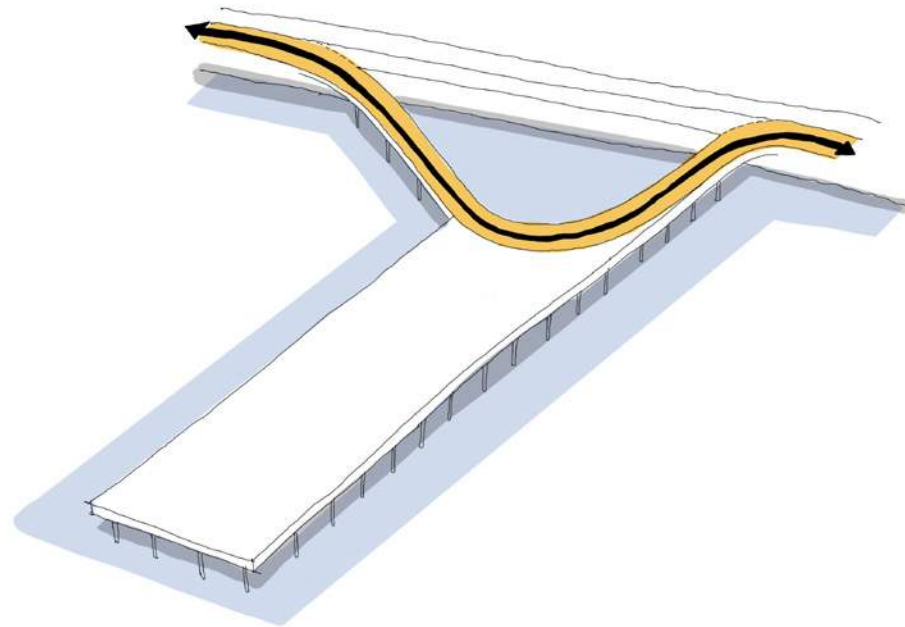


SHADE

The low canopy creates a dark zone, with a long, narrow shape that is not inviting as a gathering area, and casts a shadow that brings an adverse impact on marine habitats in the East River.

Proposed 107th Street Pier | Form Development

Approved at Conceptual Review



CIRCULATION

The pier is connected to the esplanade at two points, with an angled walk to draw users out over the water.

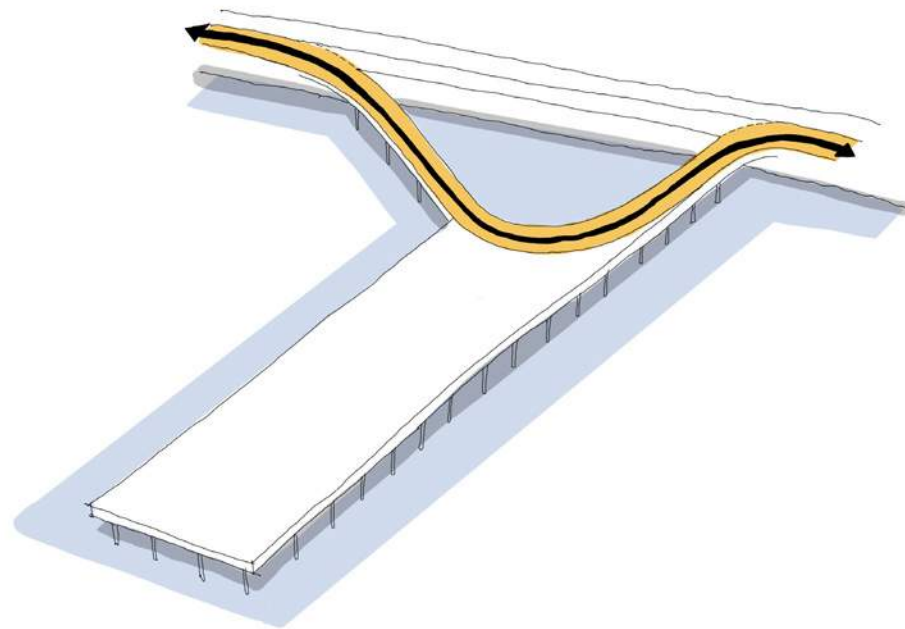
VIEWS

A primary gathering space is located at the center of the pier, with secondary spaces and overlooks oriented to key views

SHADE

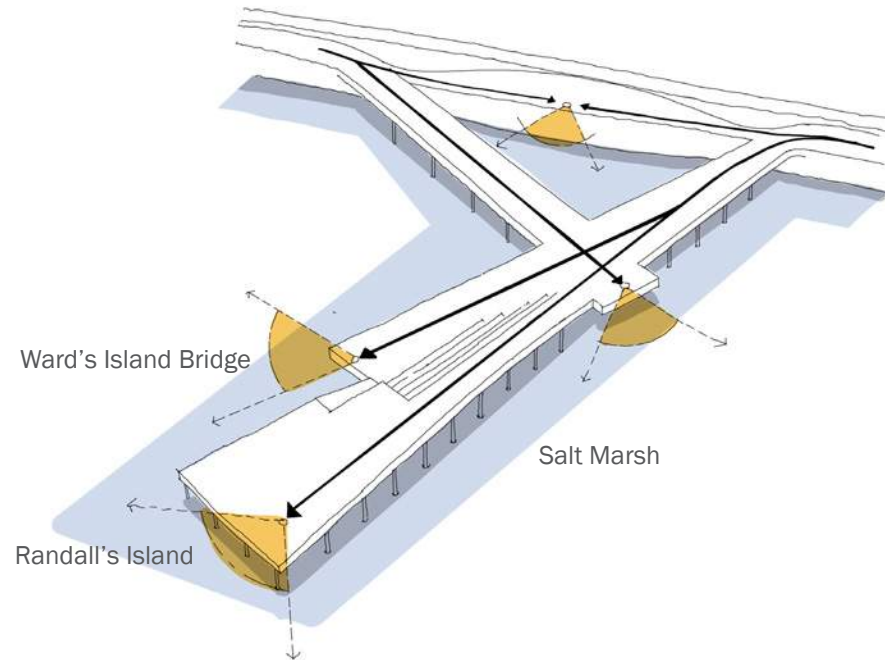
Two shade structures will shelter the different areas of the pier, supporting various uses. By carefully placing them, the pier is able to mitigate the impact on the marine habitats by reducing shade casted on water.

Proposed 107th Street Pier | Form Development



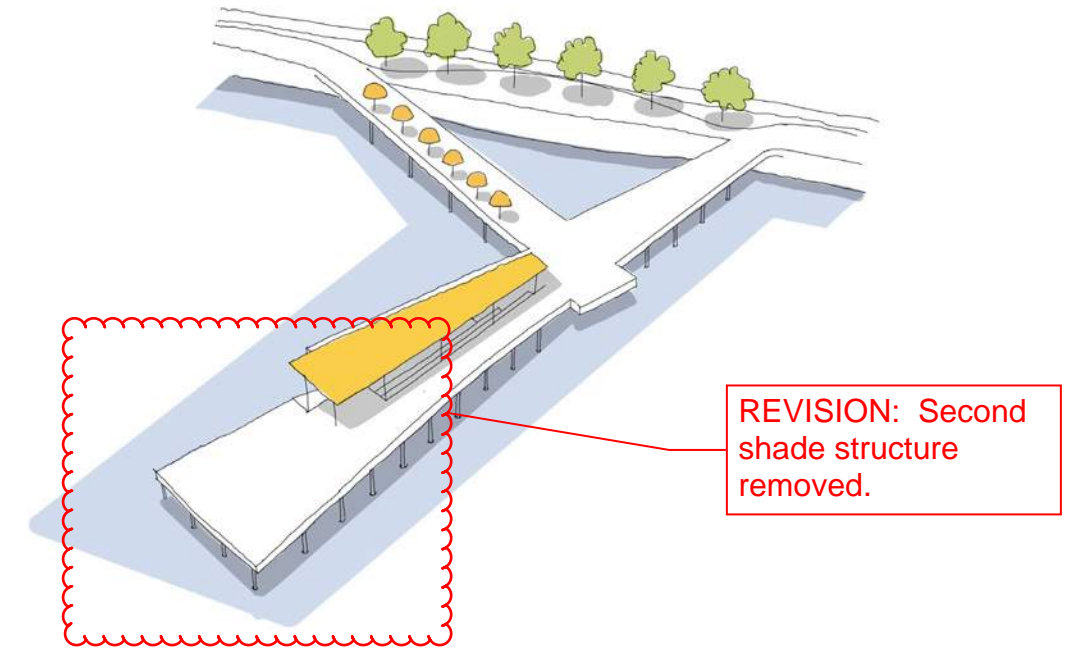
CIRCULATION

The pier is connected to the esplanade at two points, with an angled walk to draw users out over the water.



VIEWS

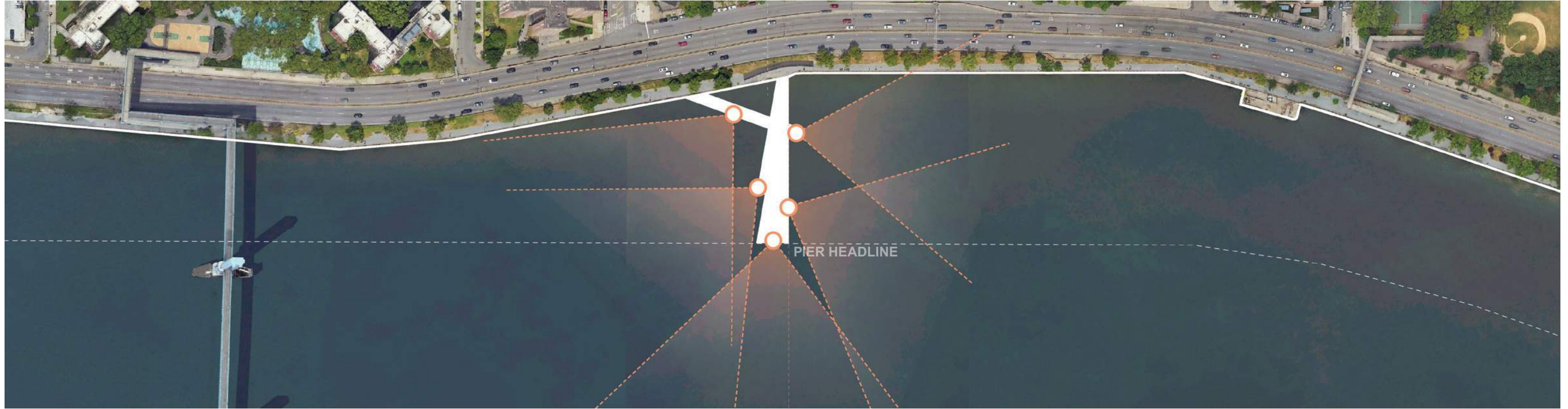
A primary gathering space is located at the center of the pier, with secondary spaces and overlooks oriented to key views



SHADE

The shade structures will shelter the central gathering space of the pier, supporting various uses. By carefully placing it, the structure is able to provide programming opportunities underneath it and mitigate the impact on the marine habitats by reducing shade casted on water.

107th Street Pier | Views



SOUTH



Ward's Island Bridge

Mill Rock

EAST



Manhattan Psychiatric

Hell Gate Bridge

RFK Bridge

NORTH



Thomas Jefferson Park

Little Hell Gate Salt Marsh

107th STREET PIER and BOBBY WAGNER WALK



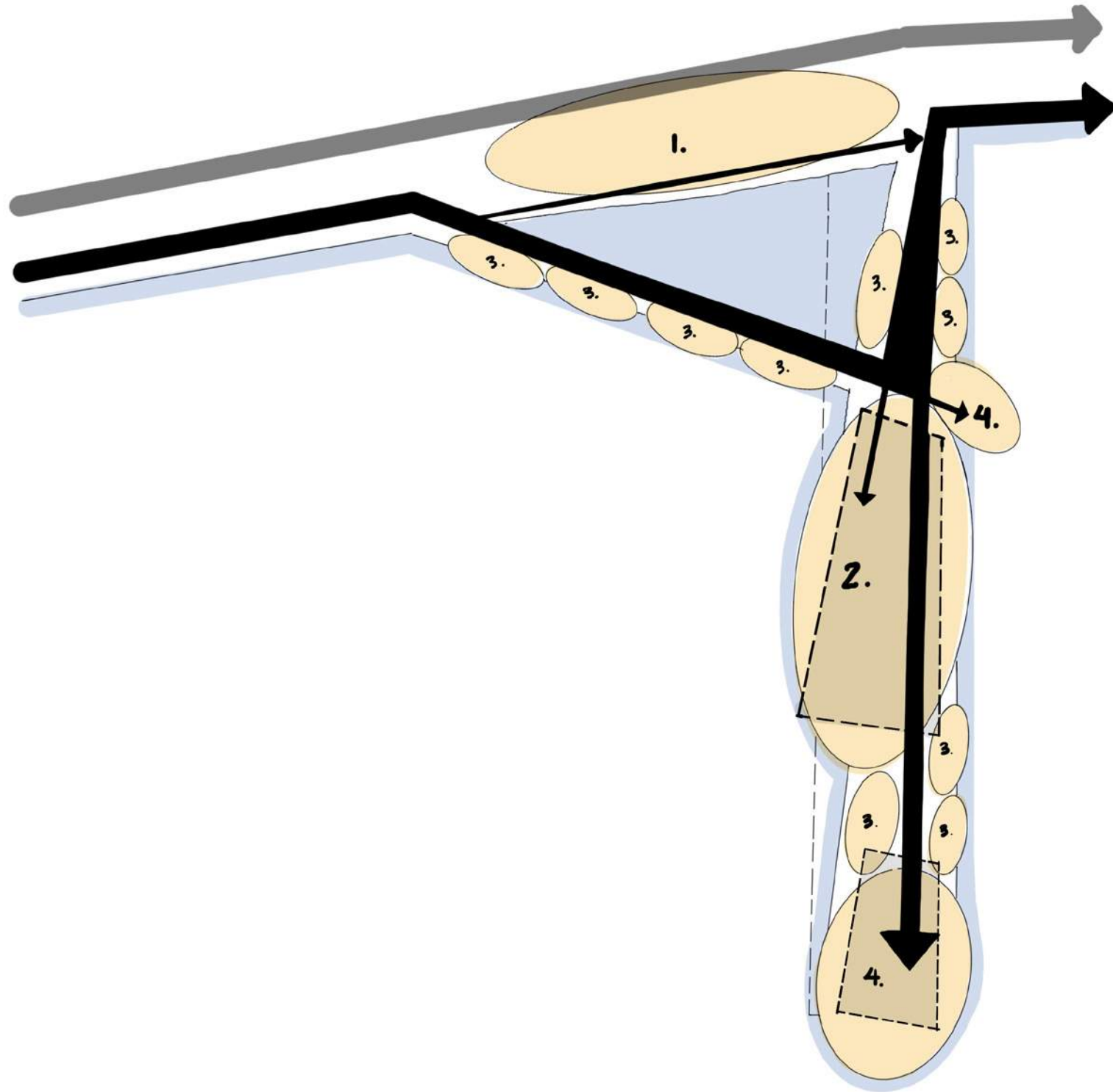
107th Street Pier | Programming

Approved at Conceptual Review

Description

The design integrates the pier into the path of circulation along the esplanade.

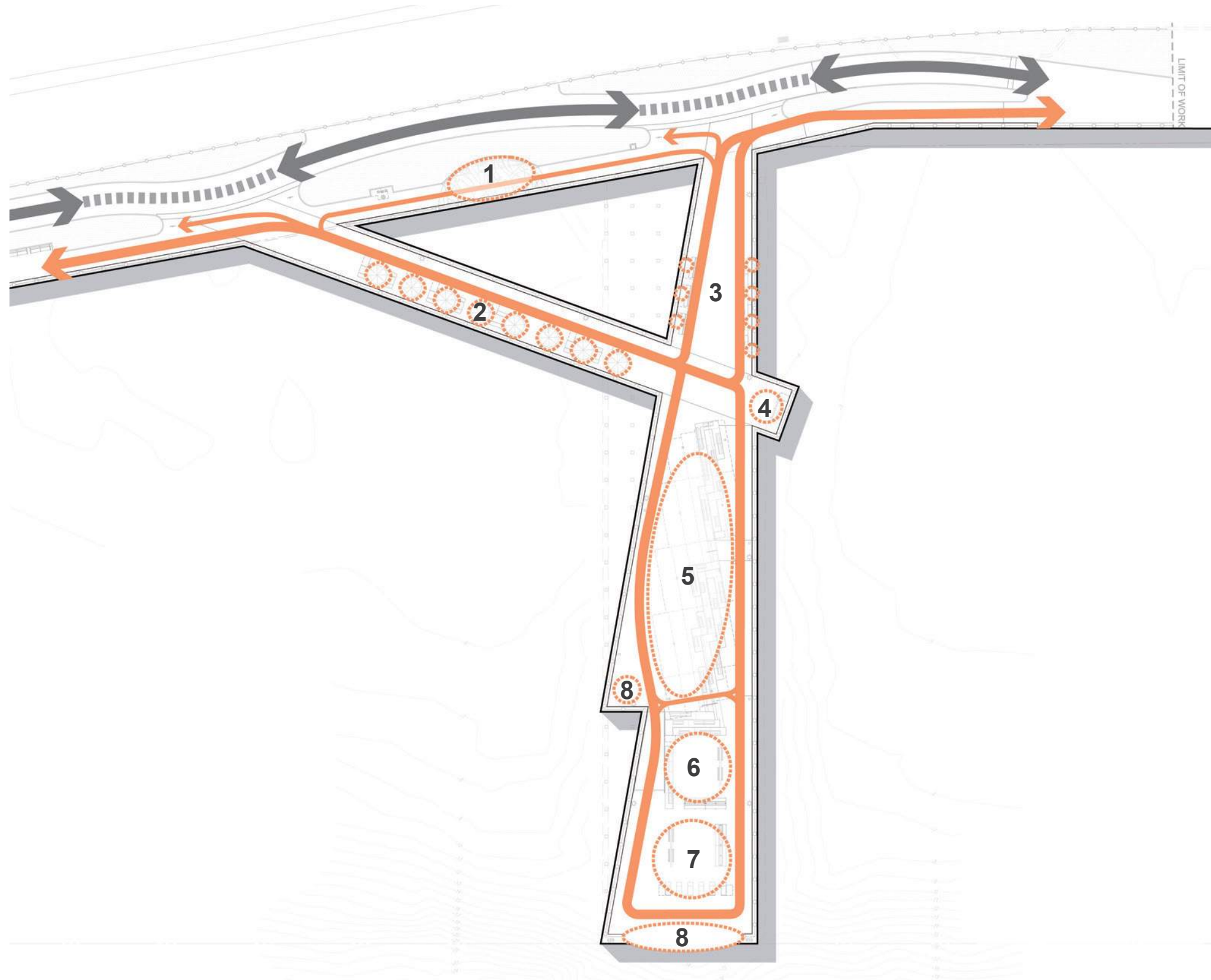
A subtle elevation change distinguishes a central gathering area with seating steps from a raised overlook point. The two are linked by a pair of shade structures.



LEGEND

- 1. Pier Plaza
- 2. Flexible Gathering
- 3. Public Seating & Tables
- 4. River Overlook

107th Street Pier | Programming & Circulation



LEGEND

 Pedestrian Circulation

 Bike Lane

1. **Pier Plaza** / Bench Seating and Art Piece
2. **Picnic Bridge** / Picnic Tables
3. **Pier Promenade** / Bench Seating, Rail Seating
4. **North Balcony** / Overlook
5. **Pier Steps** / Central Shaded Gathering Space
6. **River Room** / Small Flexible Gathering Space
7. **Sun Lounge** / Gathering Space with Loungers & Gliders
8. **Pier Overlook** / Overlook

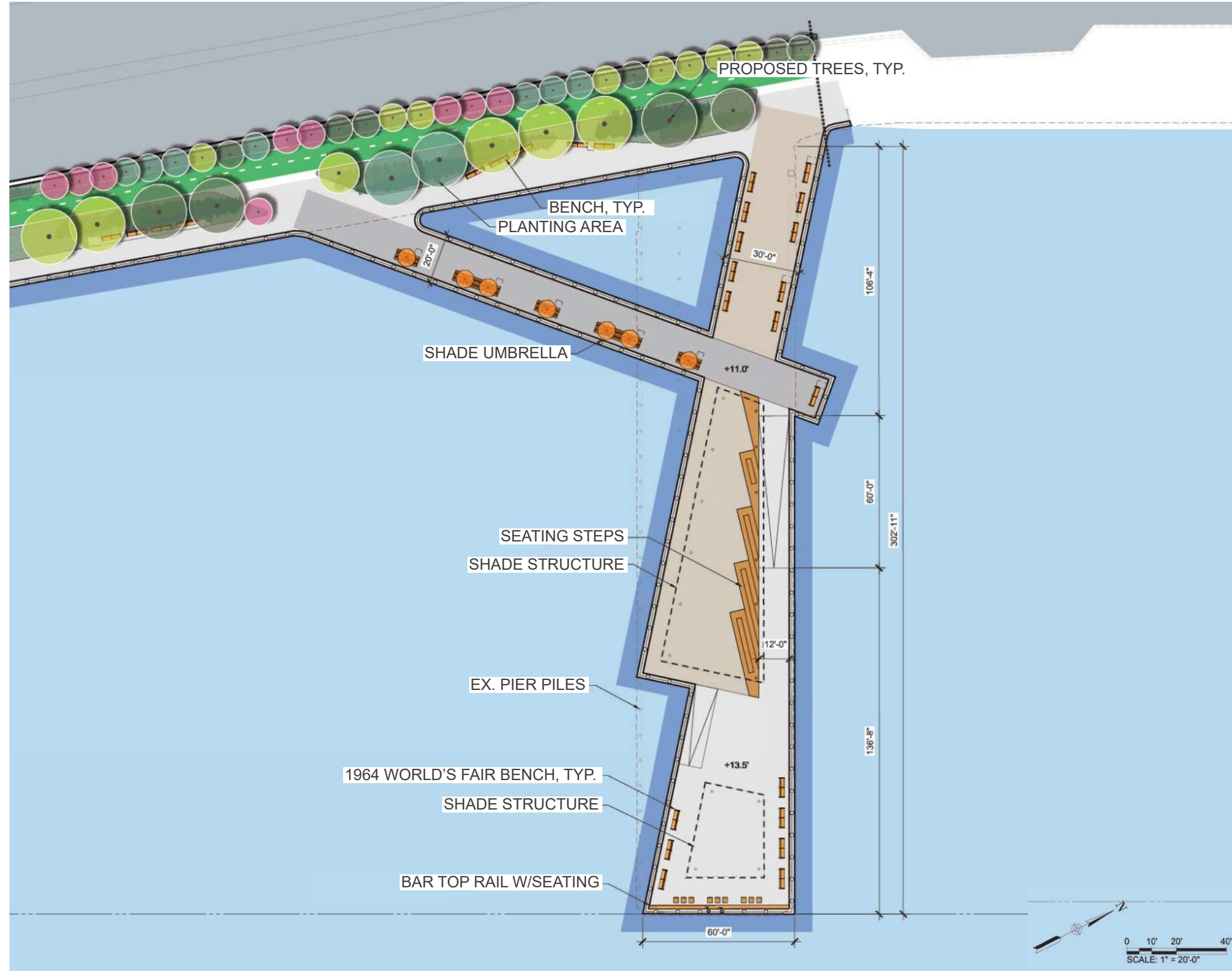
Description

The design integrates the pier into the path of circulation along the esplanade with two entry bridges into the main shaded gathering space of the pier.

Moving further out towards the water, a elevation change is incorporated into the end segment of the pier to host multiple smaller-scaled seating areas.

107th Street Pier | Concept Plan

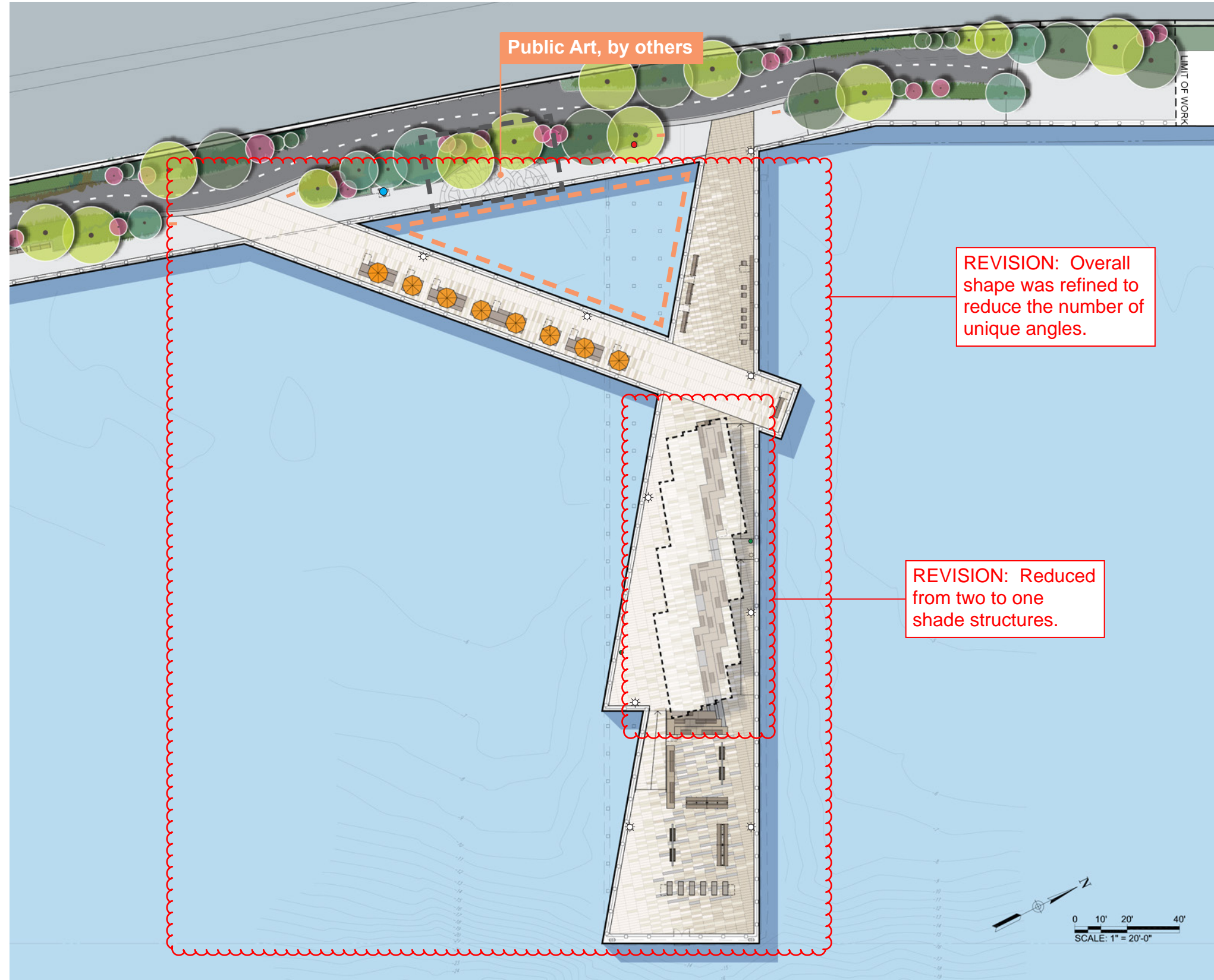
Approved at Conceptual Review



LEGEND

- Seating Element
- Planting Area
- Canopy Outline

107th Street Pier | Site Plan



LEGEND

- Proposed Trees and Shrubs
- Canopy Outline
- 1964 World's Fair Bench
- Rail Seating
- Picnic Tables w/ Shade Umbrellas
- Loungers
- Seating Steps
- Glider Swings
- Light Pole
- Bike Racks
- Drinking Fountain w/ Bottle Filler
- Trash Bin
- Bollard w/ Electrical outlets
- Area for Potential Ecological Enhancements (Being Studied)



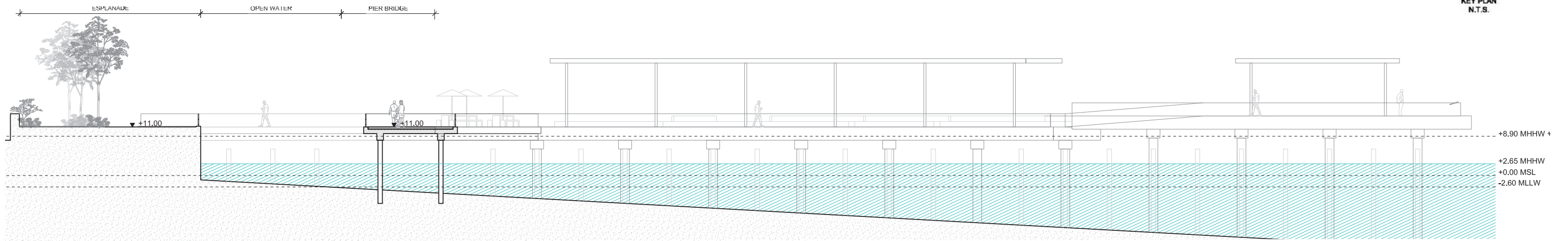
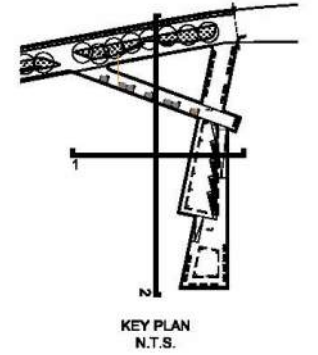
Reef Balls



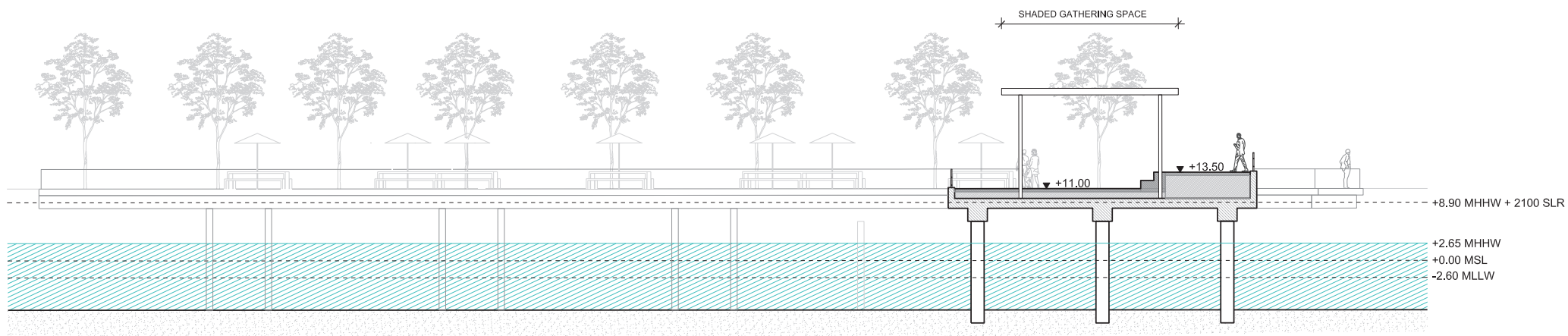
Oyster Research Station (Installed by Others)

107th Street Pier | Site Sections

Approved at Conceptual Review

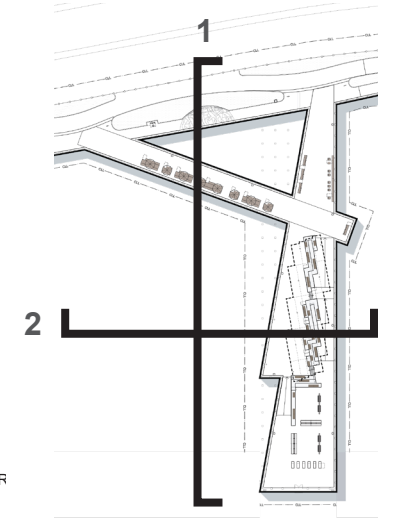
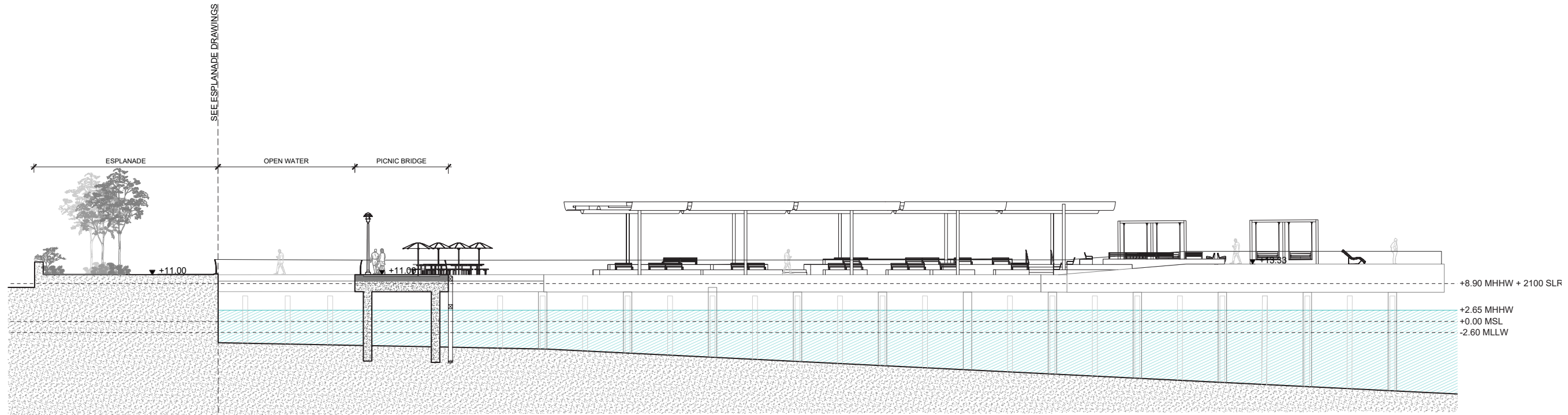


2 SITE SECTIONS
SCALE: 1:10

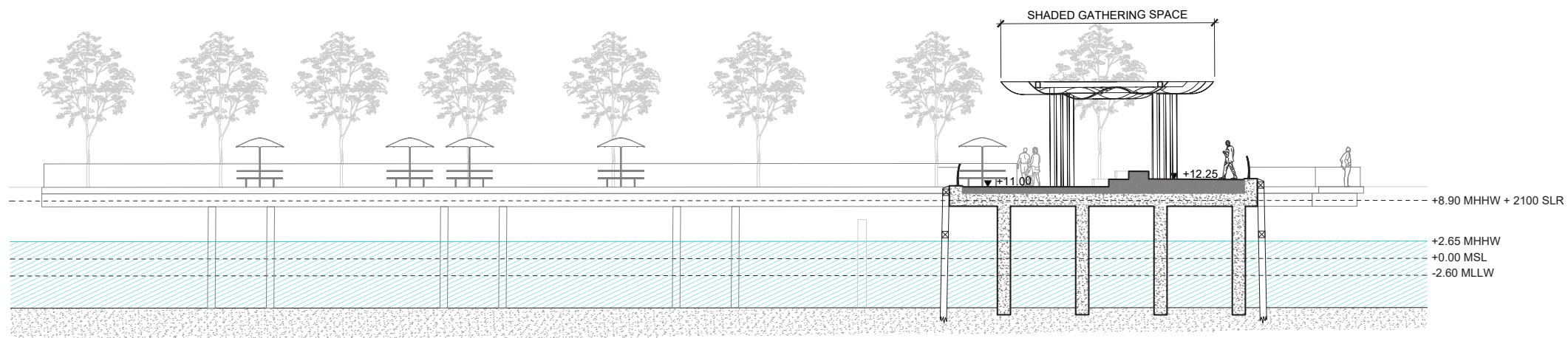


1 SITE SECTIONS
SCALE: 1:10

107th Street Pier | Site Sections

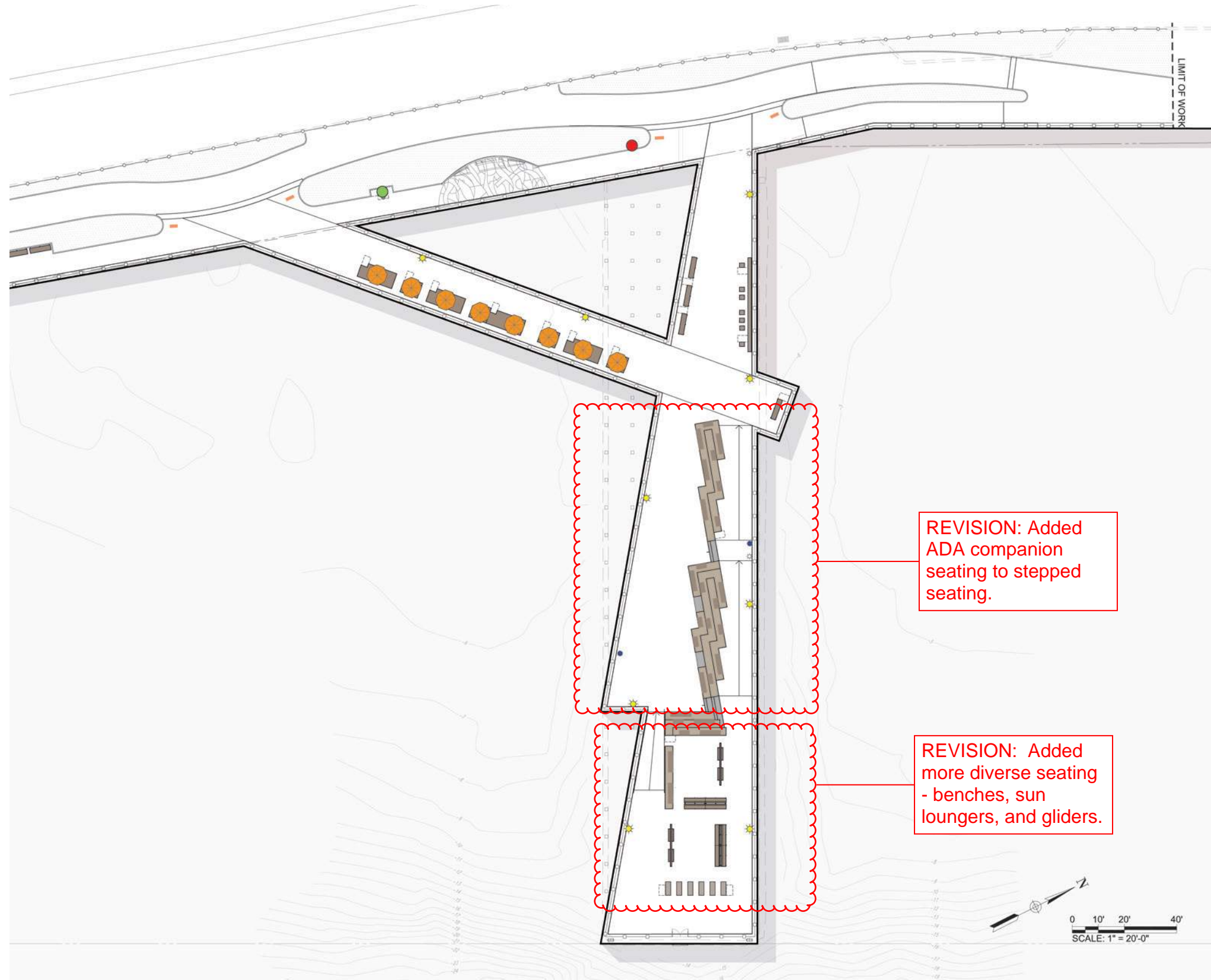


2 SITE SECTIONS
SCALE: 1:12














1 SITE SECTIONS
SCALE: 1:10

107th St Pier | Furnishing Plan



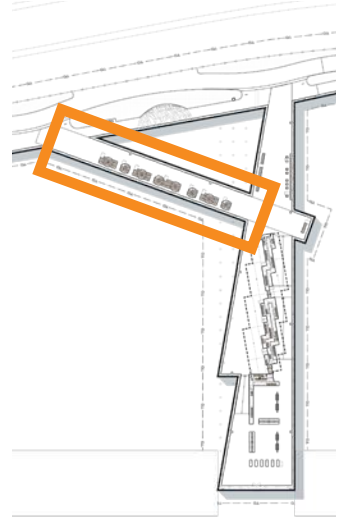
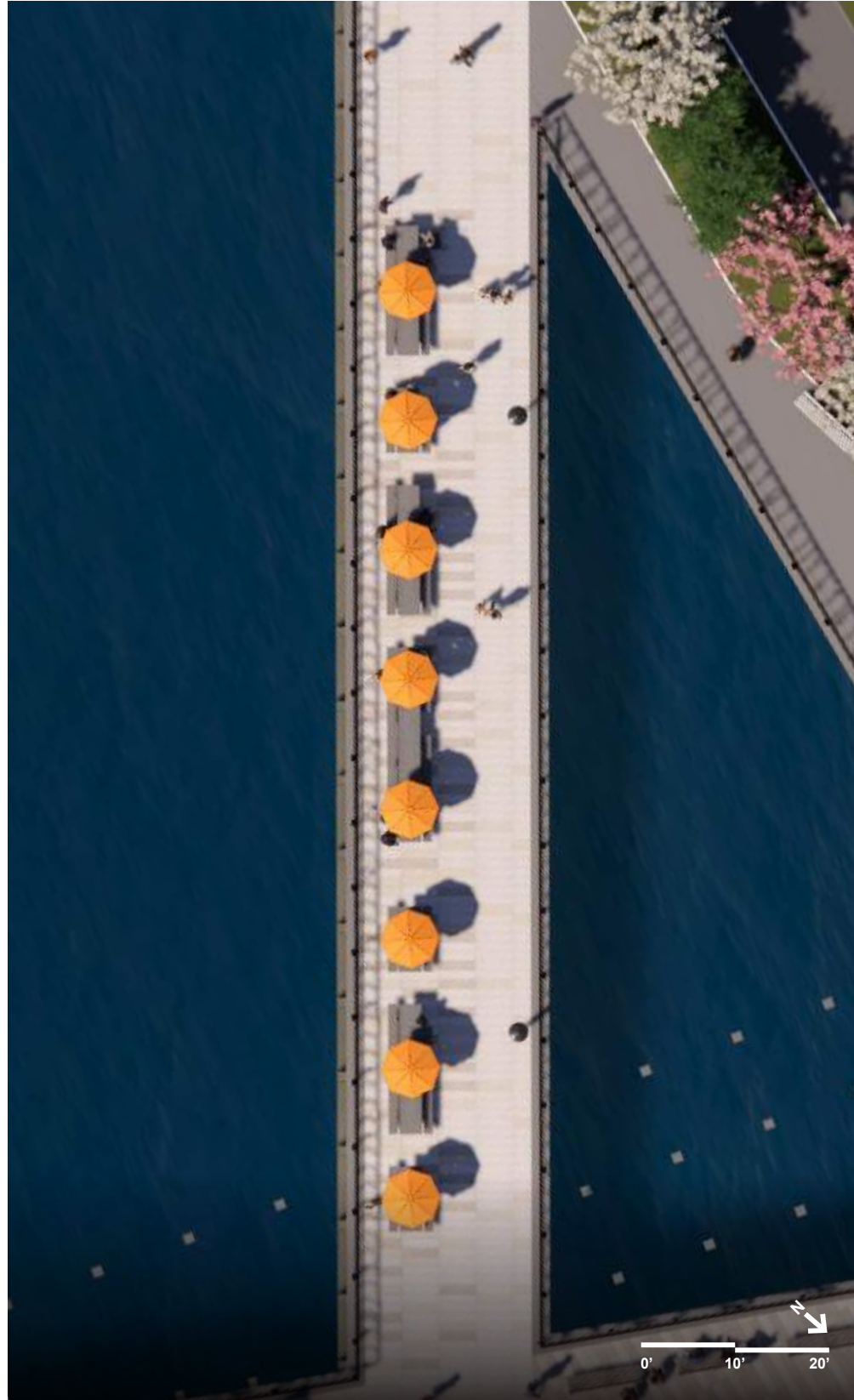
LEGEND

-  1964 World's Fair Bench
-  Rail Seating
-  Picnic Tables w/ Shade Umbrellas
-  Loungers
-  Seating Steps
-  Glider Swings
-  Light Pole
-  Bollard w/ electrical outlets
-  Bike Racks
-  Drinking Fountain w/ Bottle Filler
-  Trash Bin

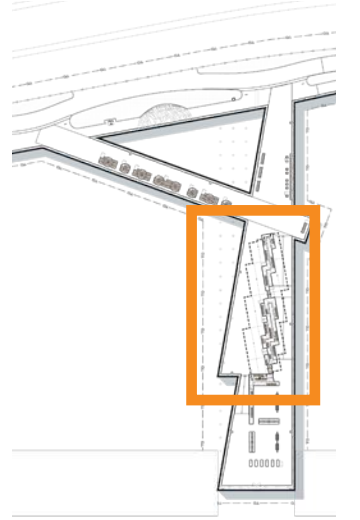
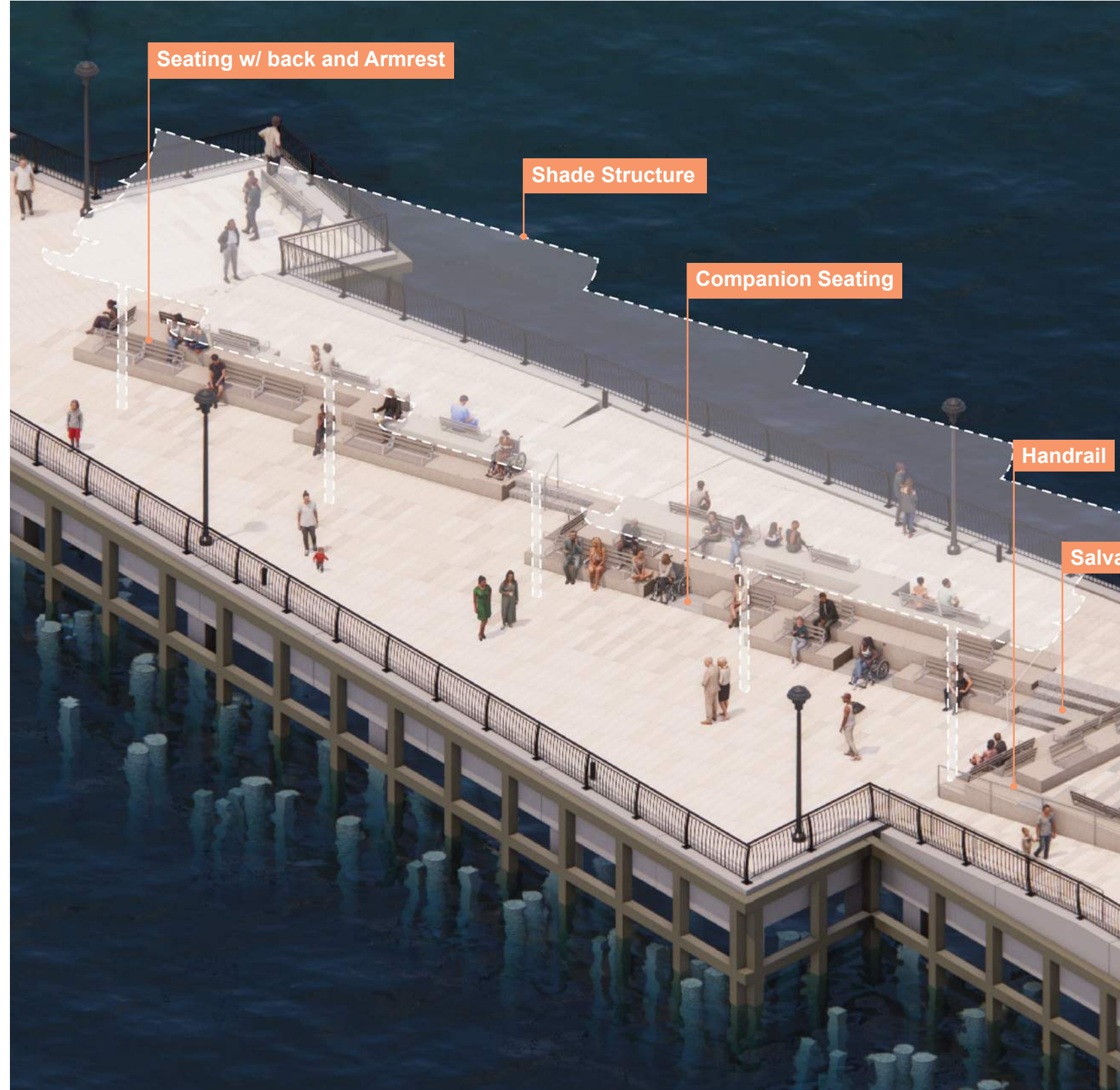
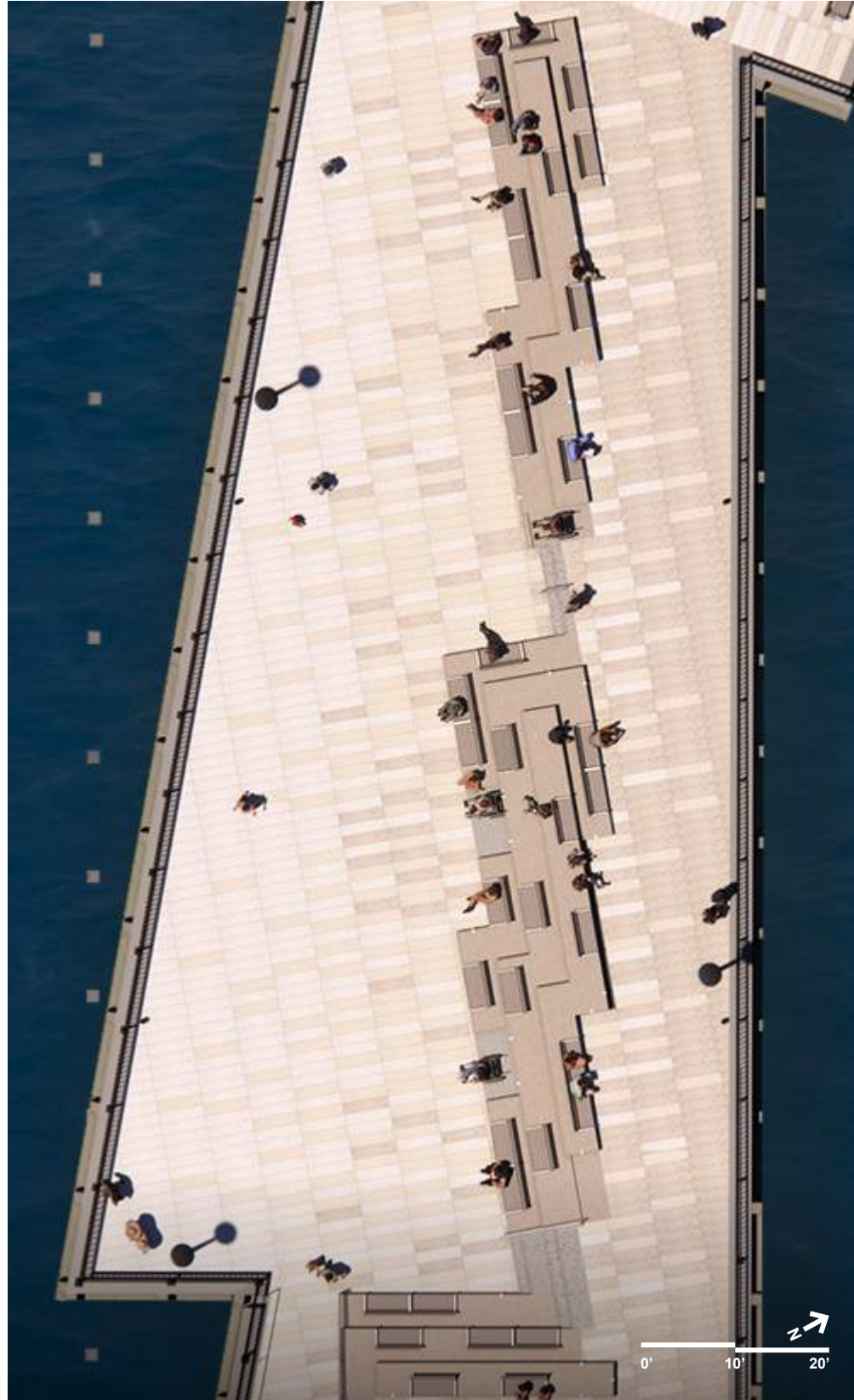
REVISION: Added ADA companion seating to stepped seating.

REVISION: Added more diverse seating - benches, sun loungers, and gliders.

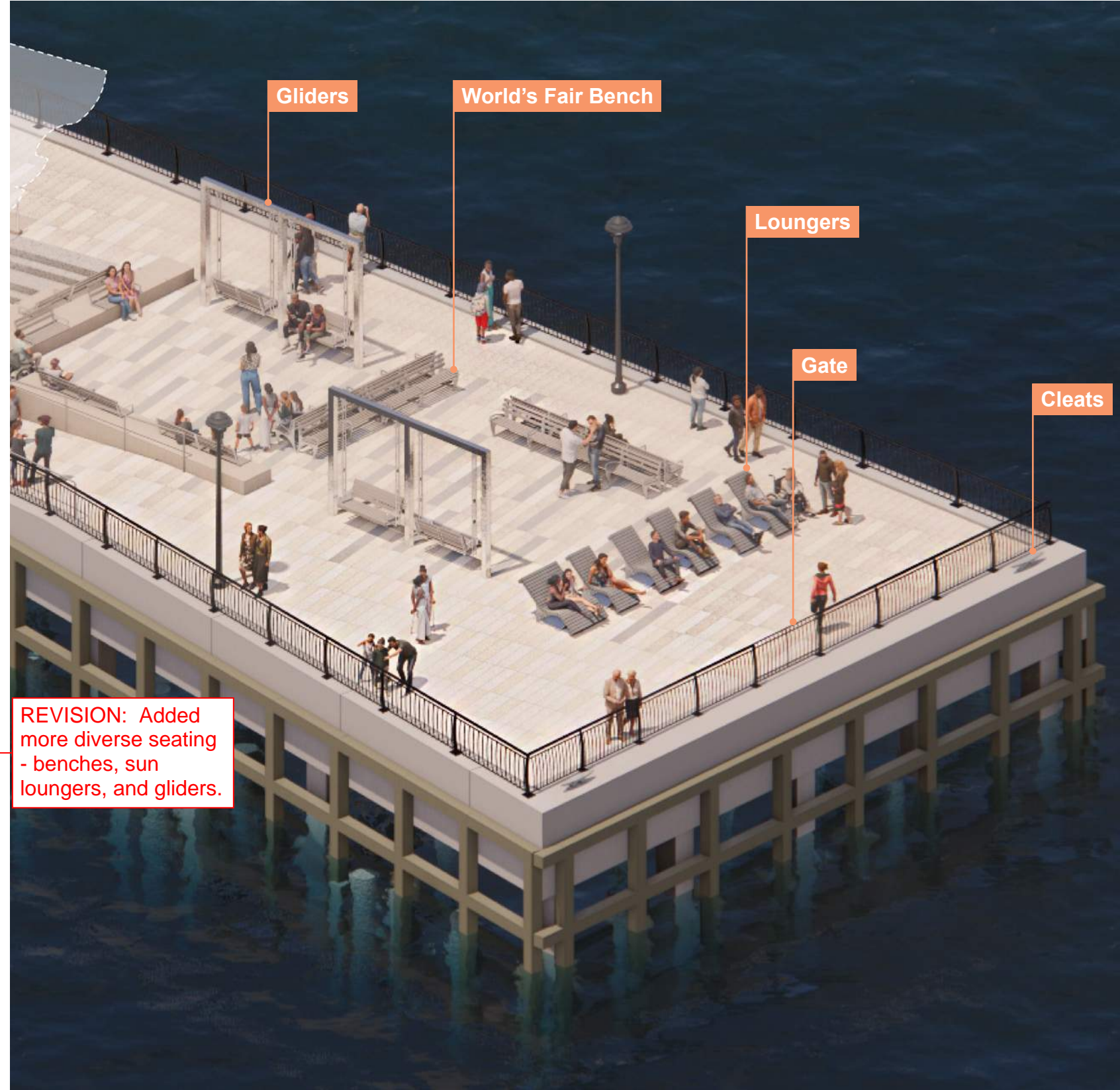
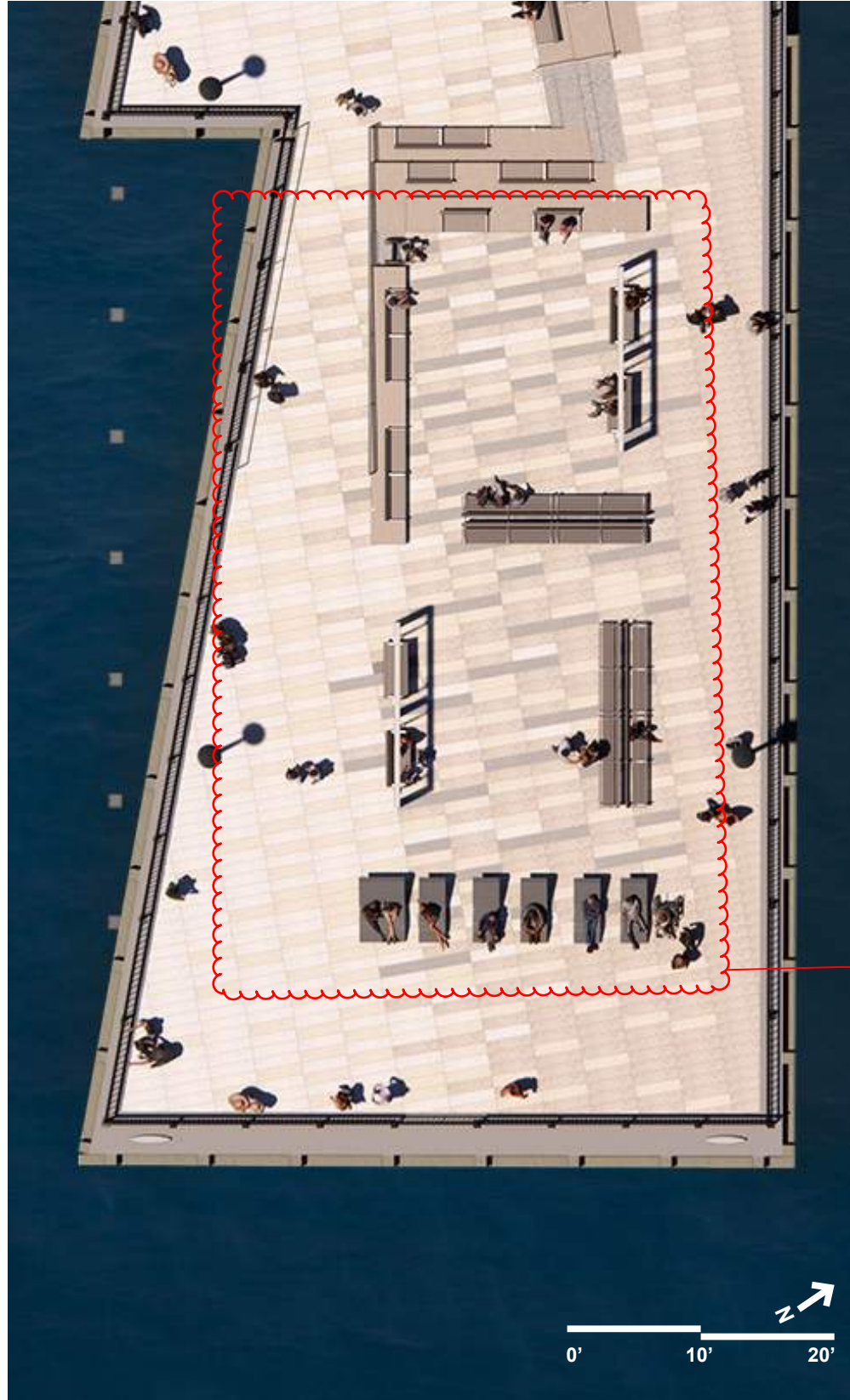
107th St Pier | Picnic Bridge



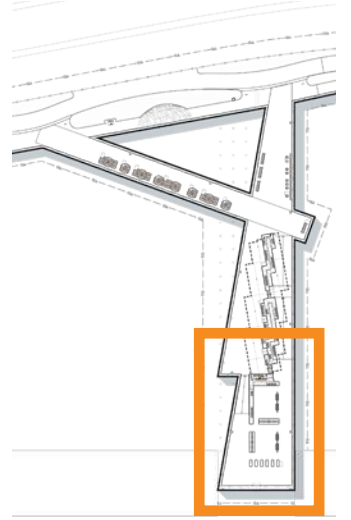
107th St Pier | Pier Steps



107th St Pier | Pier Overlook



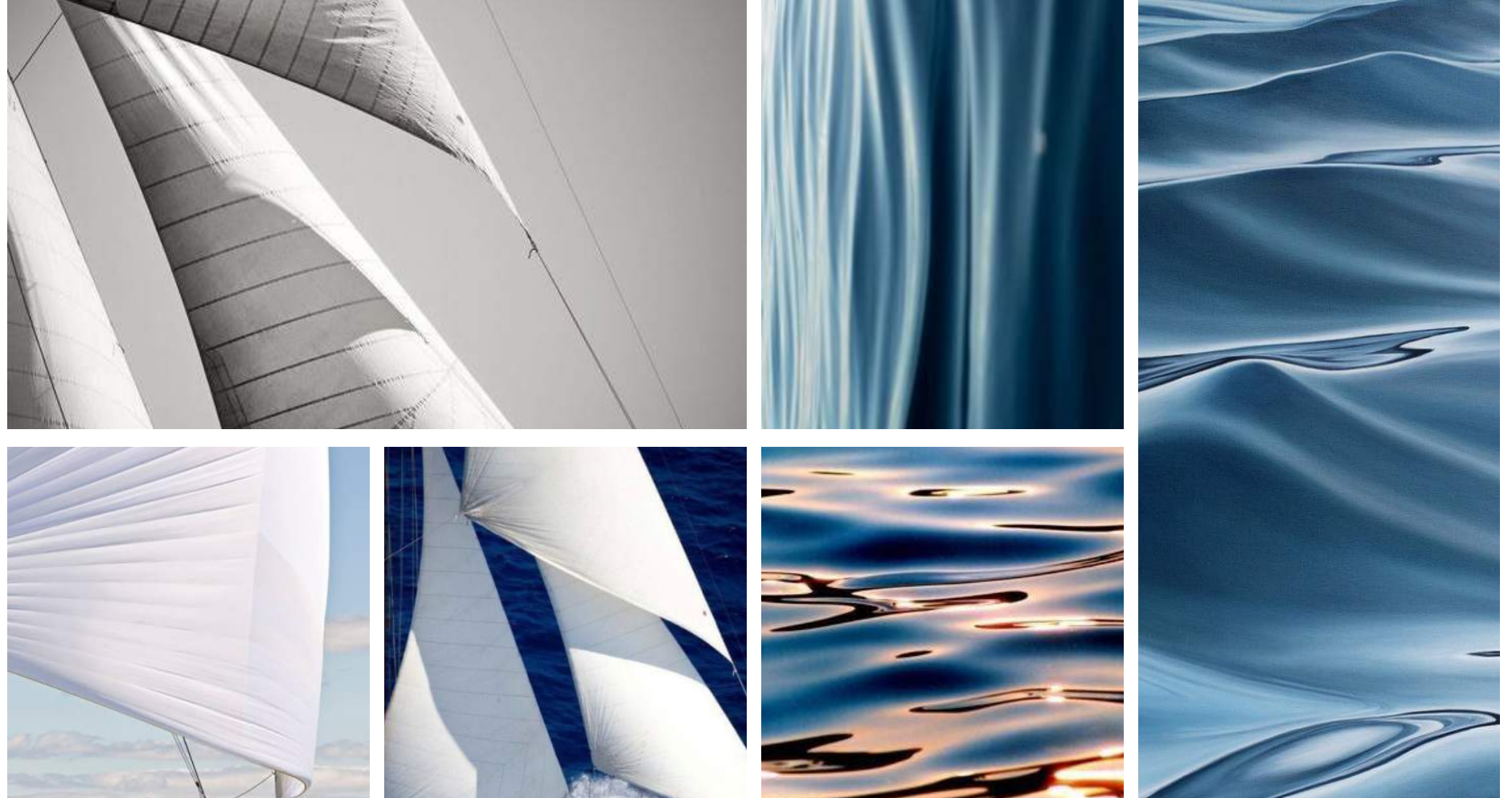
REVISION: Added more diverse seating - benches, sun loungers, and gliders.



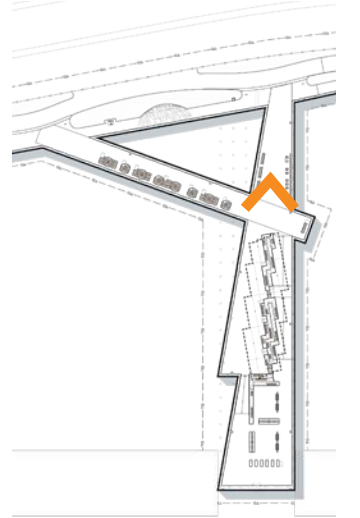
SHADE STRUCTURE

107th St Pier | Shade Structure Design Inspirations

- Inspired by natural forms of wind & water.
- Inspired by the historic shade pavilion of the Pier.
- Drawing on the forms of the current Pier.
- Provide sufficient shade.
- In the process of coordination w/ Structural Engineer.



107th St Pier | Shade Structure | View from North Entry Bridge

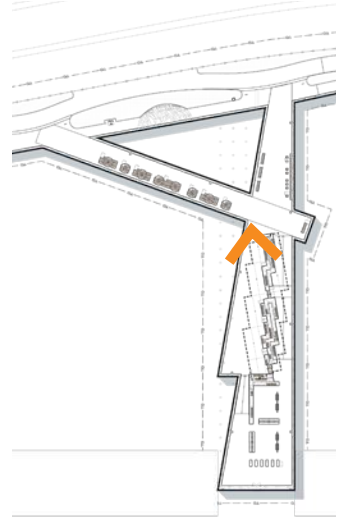


107th STREET PIER and BOBBY WAGNER WALK

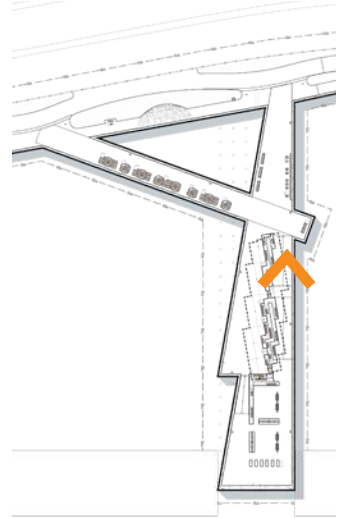


Stantec MARVEL phyto

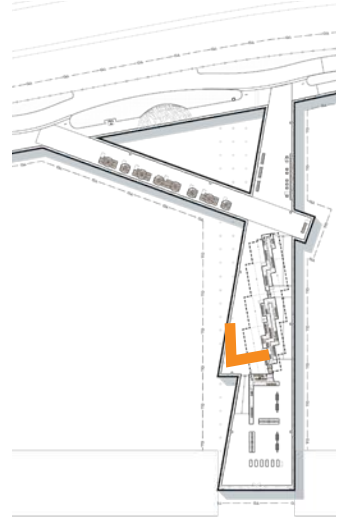
107th St Pier | Shade Structure | View from Pier Steps



107th St Pier | Shade Structure | View from North Walkway

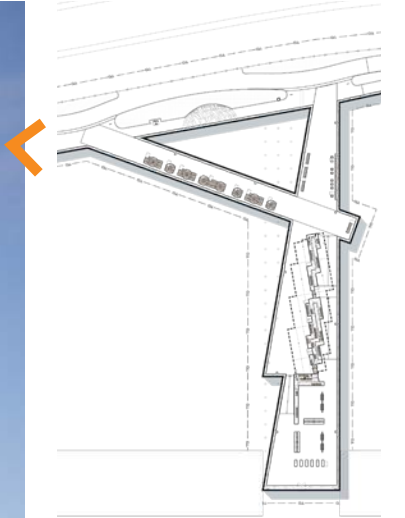


107th St Pier | Shade Structure | View from South Gathering space

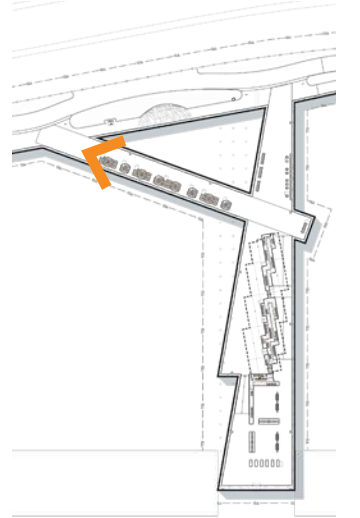


PIER VIEWS

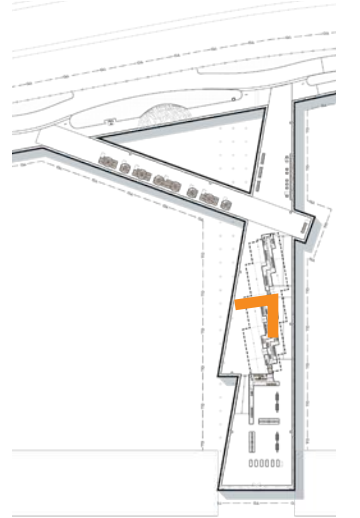
107th Street Pier | View From Esplanade



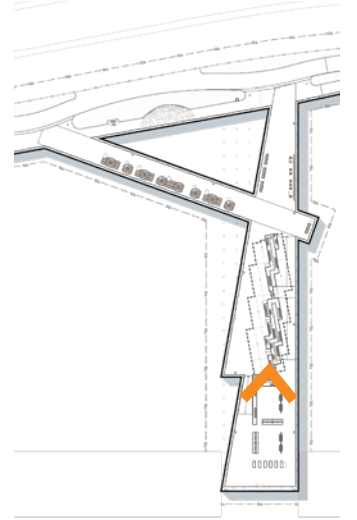
107th Street Pier | View From Picnic Bridge



107th Street Pier | View at Pier Steps



107th St Pier | Pier Overlook | River Room

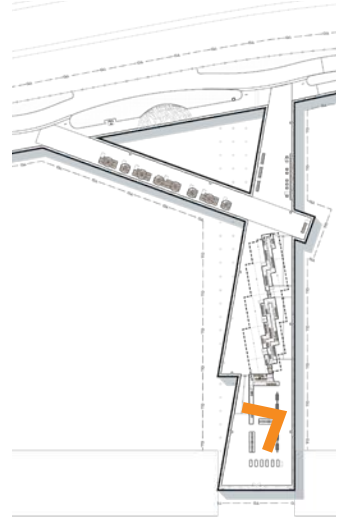


107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

107th Street Pier | View at Pier Overlook



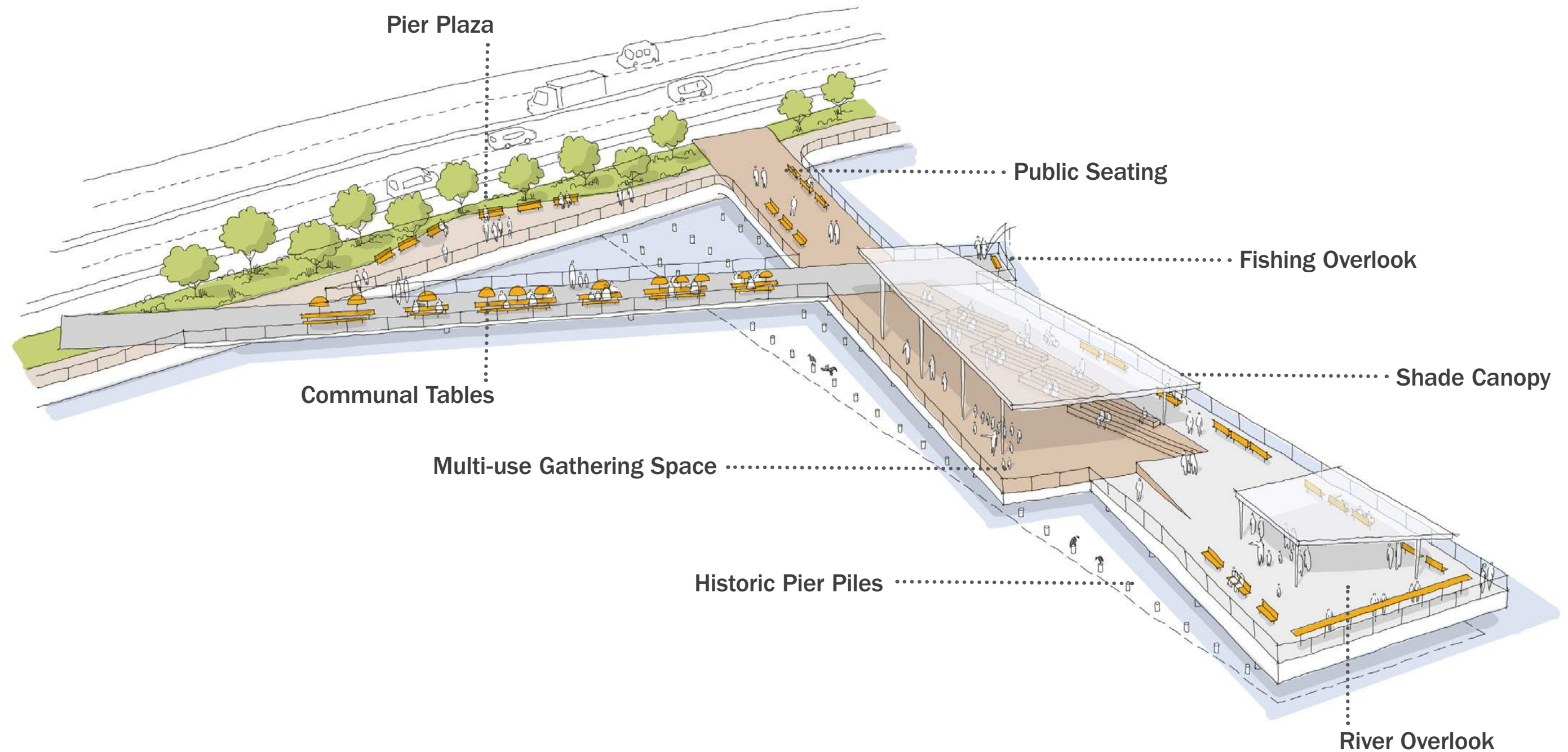
107th STREET PIER and BOBBY WAGNER WALK



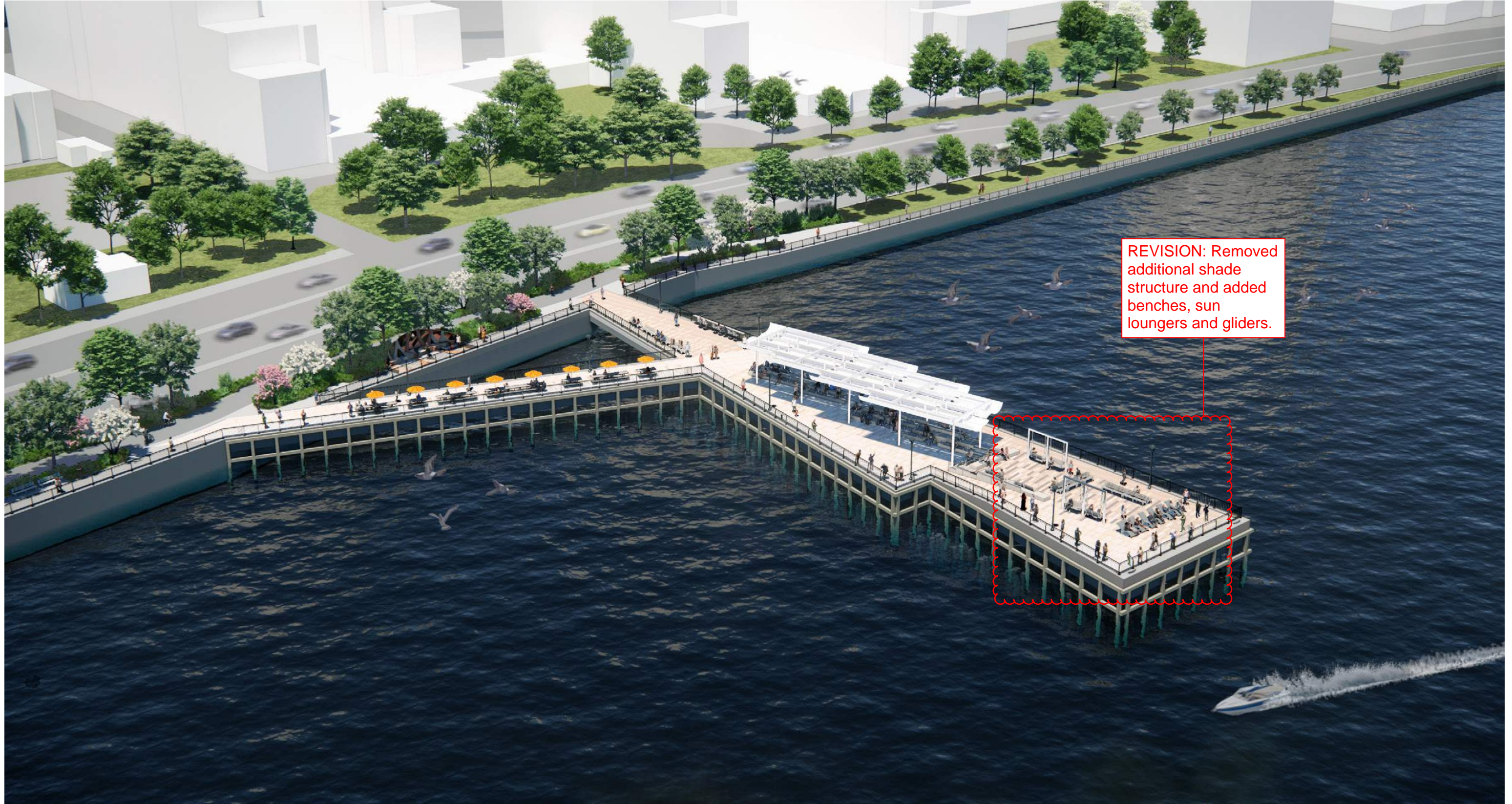
Stantec MARVEL phyto

107th Street Pier | Aerial Sketch

Approved at Conceptual Review

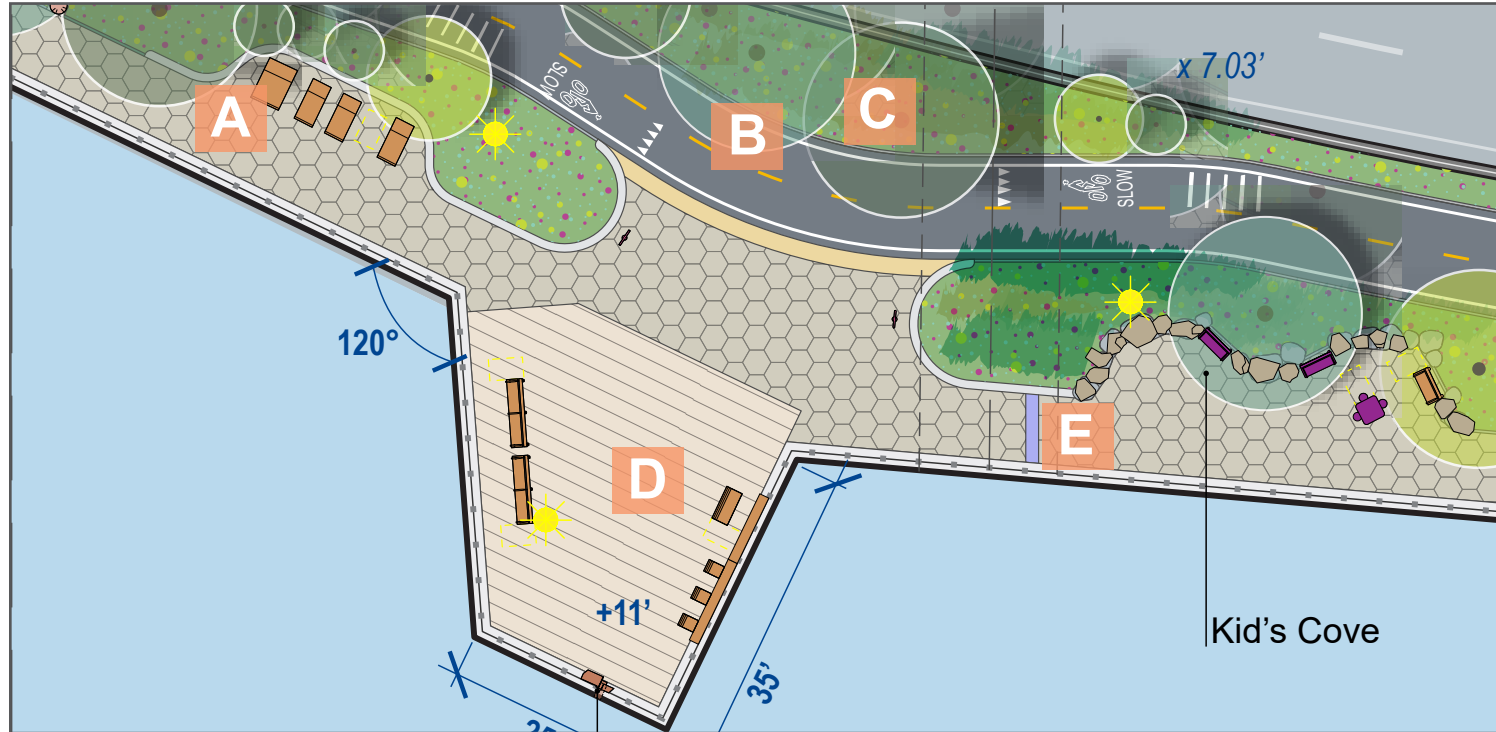


107th Street Pier | Aerial



MATERIALS AND FURNISHING

Esplanade Pavement

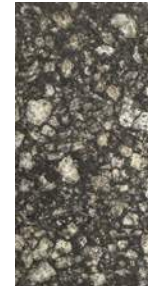


PLAN ENLARGEMENT

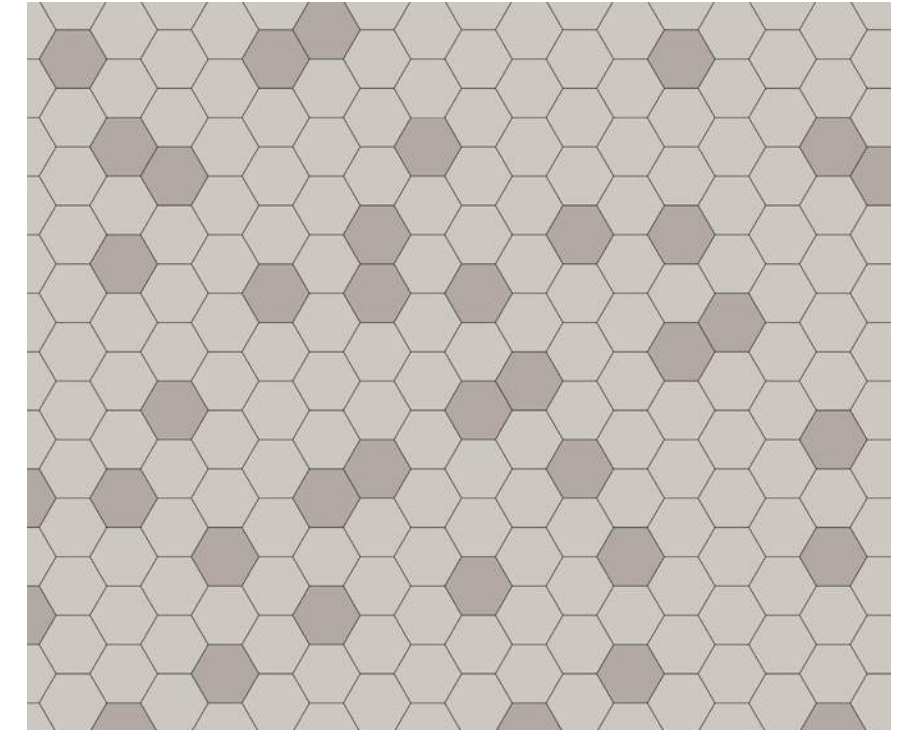
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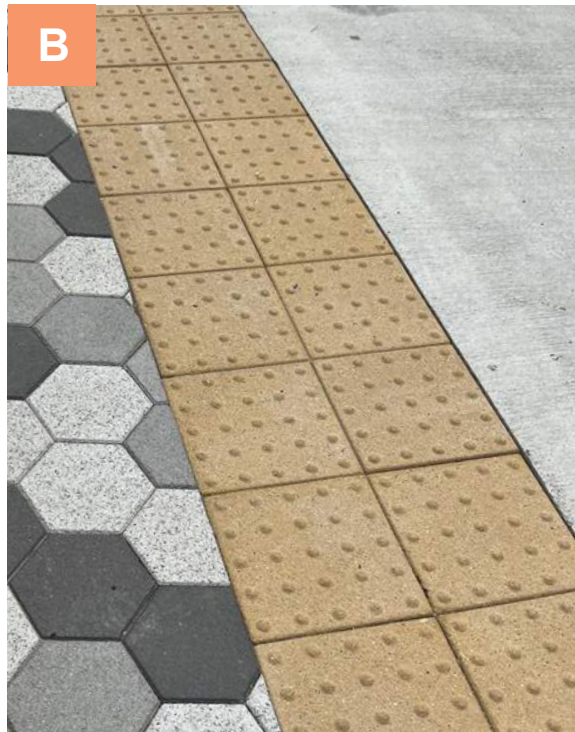
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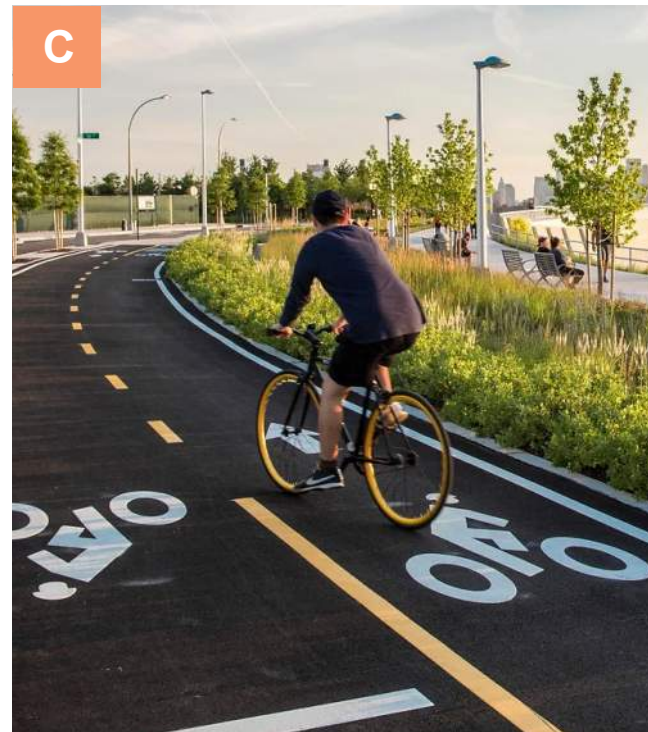
A80020



8" ASPHALT HEX PAVER

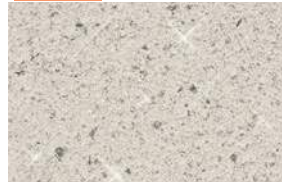


DETECTABLE WARNING PAVER

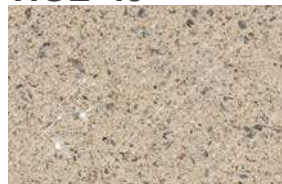


ASPHALT PAVEMENT

D



HGL-15

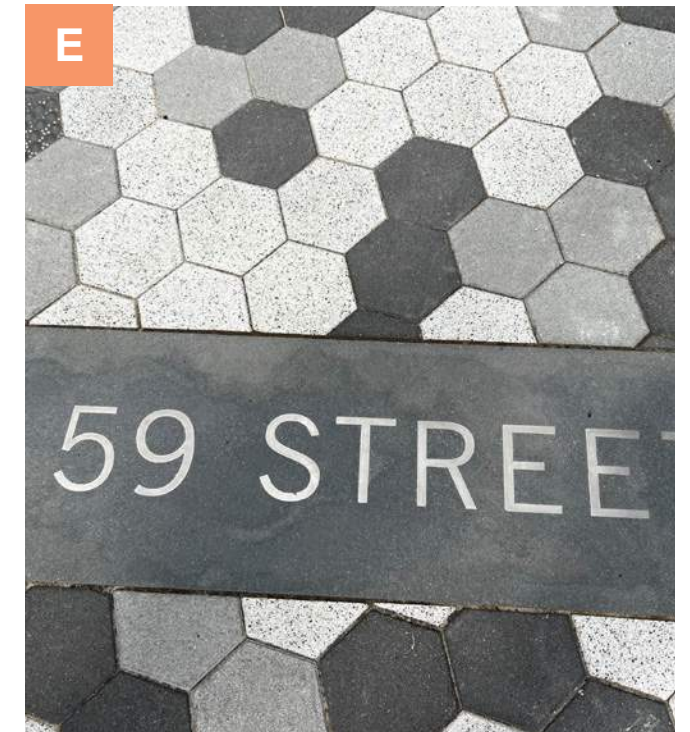


HGL-20



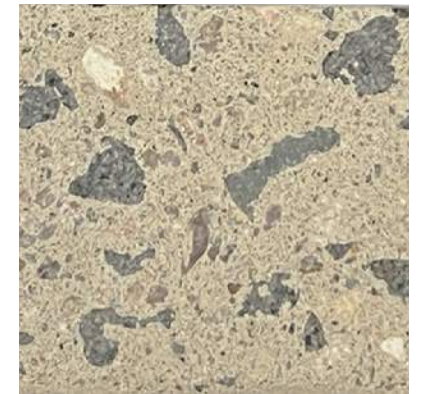
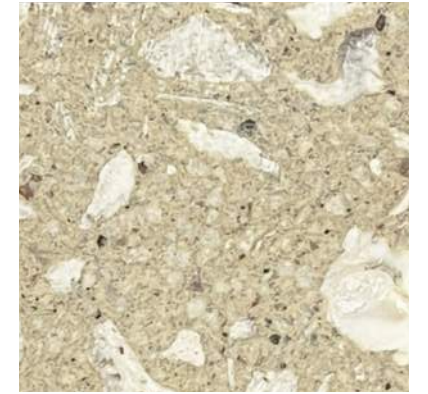
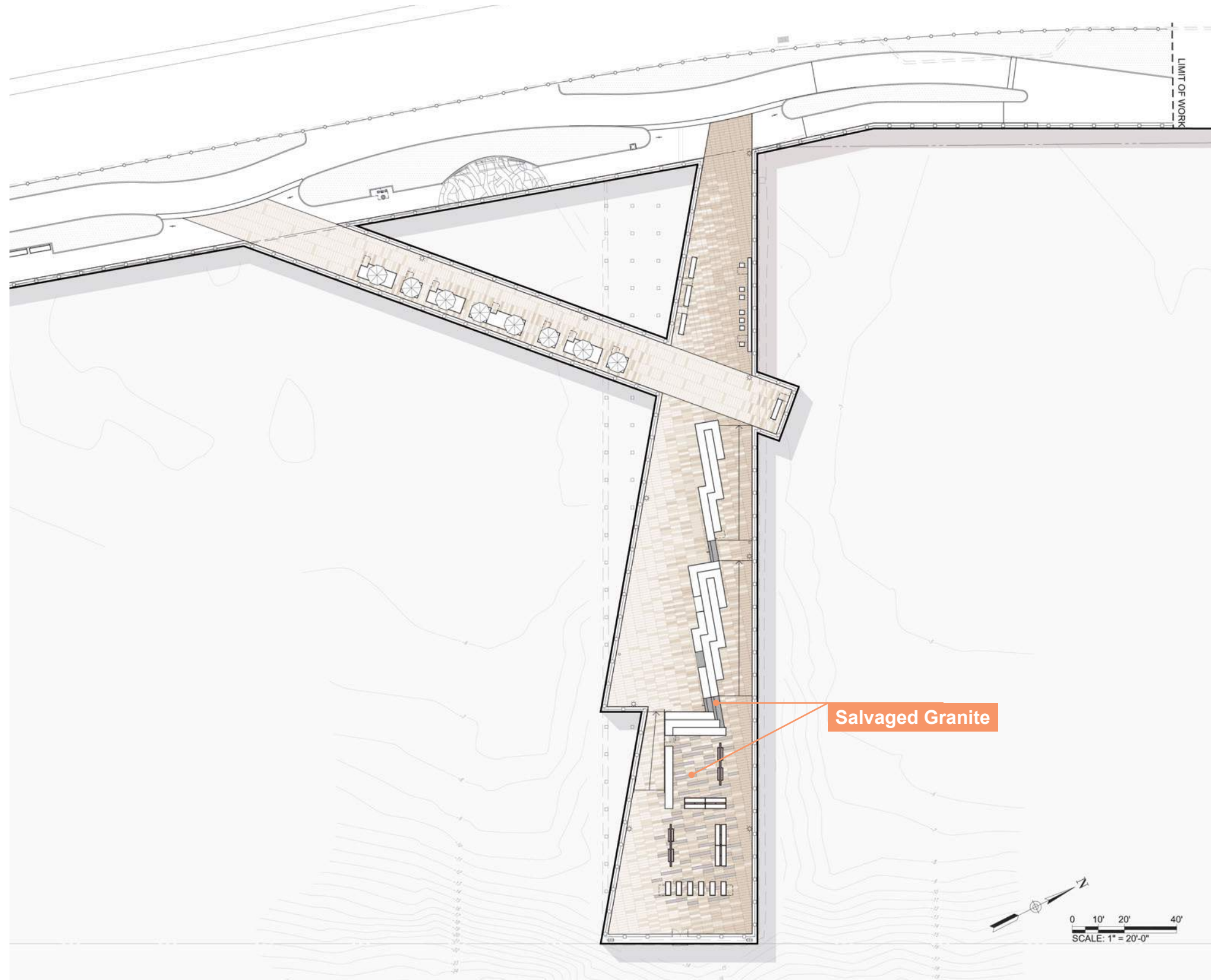
HGL-40

12" X 24" X 4" EXPOSED AGGREGATE CONCRETE PAVER



STREET IDENTIFICATION PAVER

107th St Pier Pavement



TAN PAVER MIX w/ AGGREGATE



SALVAGED GRANITE

Esplanade & Pier Furnishings



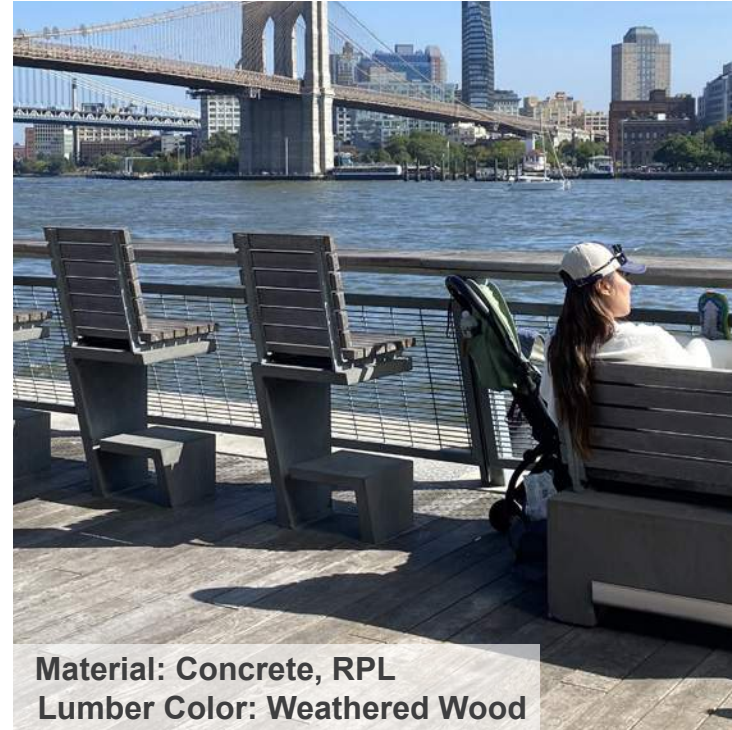
Mfr.: Kenneth Lynch & Sons
Material: Steel, RPL
Lumber Color: Weathered Wood

1964 WORLD'S FAIR BENCH
8FT & 4FT LONG



Mfr.: All City Play Equipment
Material: Steel, RPL
Lumber Color: Weathered Wood

PICNIC TABLE AND BENCHES



Material: Concrete, RPL
Lumber Color: Weathered Wood

RAIL SEATING (BMCR)



Mfr.: Streetlife
Material: Steel, RPL
Lumber Color: Cloudy Grey

LOUNGE CHAIR



Mfr.: Most Dependable Fountains
Color: Chrome

BOTTLE FILLER W/ HI-LO DRINKING FOUNTAIN BASINS



BICYCLE RACK - "HOOP"



TRASH RECEPTACLE
NYC PARKS STANDARD



EMG SEA RAIL (EAST MIDTOWN GREENWAY)

107th STREET PIER and BOBBY WAGNER WALK



Stantec

MARVEL phyto

Esplanade Furnishings



Mfr.: Kenneth Lynch & Sons
 Material: Steel, RPL
 Lumber Color: Weathered Wood
**1964 WORLD'S FAIR BACKLESS BENCH
 4FT LONG**



Mfr.: Kenneth Lynch & Sons
 Material: Concrete, Steel
GAME TABLE AND CHAIRS



Mfr.: Kenneth Lynch & Sons
 Material: Steel, RPL
 Lumber Color: Weathered Wood
**CHILD 1964 WORLD'S FAIR BENCH
 4FT LONG**



**NYC DOT STANDARD LIGHT POLE
 TYPE B PEDESTRIAN POLE**



Mfr.: Champlain Stone, or approved equal
 Material: Mountain Fieldstone
LANDSCAPE BOULDER



DOT Standard
LEANING BAR



Mfr.: Juilius Blum
 Material: Stainless Steel
 Color: Silver
HANDRAIL

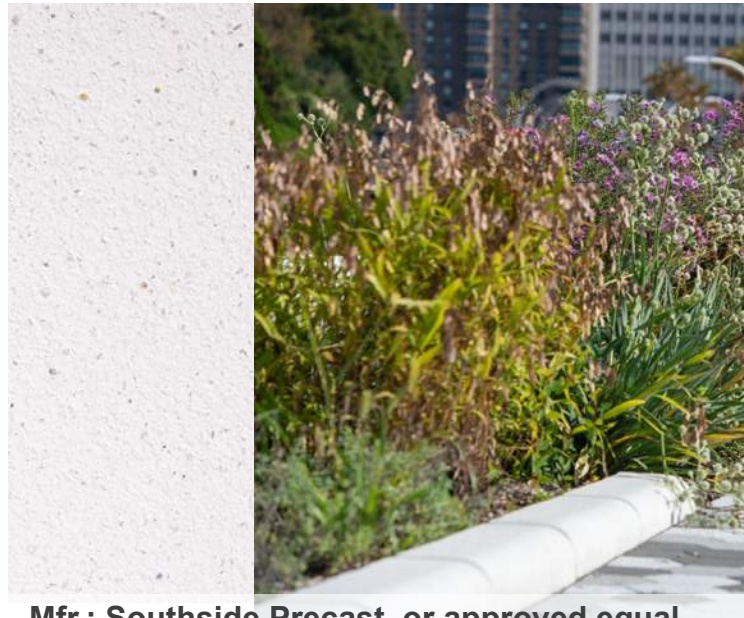


Mfr.: Kenneth Lynch & Sons
 Material: Concrete
CHILD GAME TABLE AND STOOLS

Esplanade Furnishings



CRASH RATED GATE AND BOLLARD



Mfr.: Southside Precast, or approved equal
Material: Precasat Concrete
Color: White, Light Etched
Precast Concrete Curb



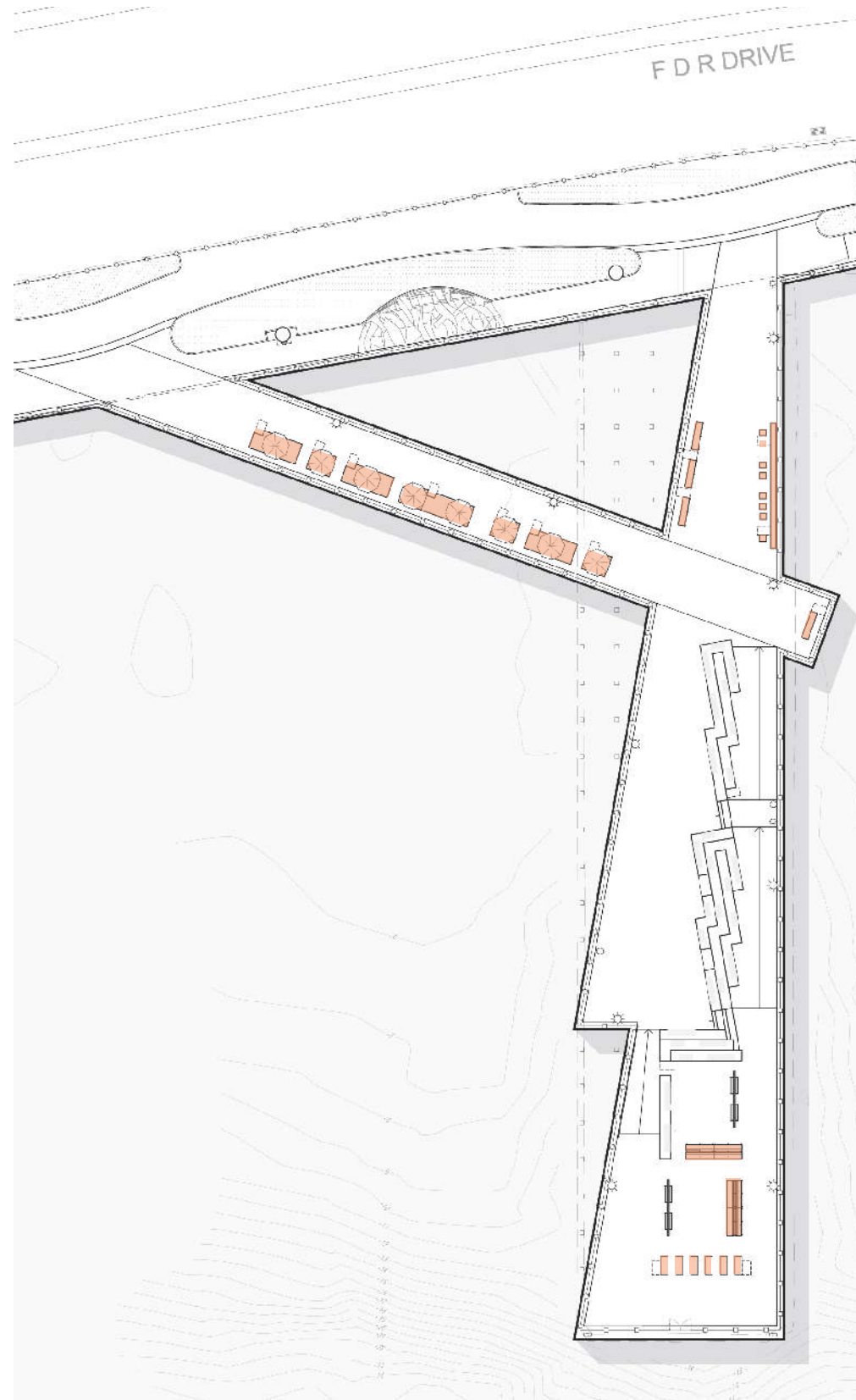
Mfr.: Orsogrill, or approved equal
Material: Steel
Color: Black
3'-6" HT Steel Fence


Pier Furnishings



BOLLARD W/ ELECTRICAL OUTLETS

107th Street Pier | Furniture Elements




 **PICNIC TABLE AND BENCHES**
 Mfr.: All City Play Equipment
 Lumber Color: Dark Gray
 Metal: Gloss Black, RAL 8022

SOLSTICE UMBRELLA
 Mfr.: Landscapeforms
 Material: Powdercoated Metal




 **SOLID SERIF CHAISE LOUNGE**
 Mfr.: Streetlife
 Material: Metal and RPL Wood



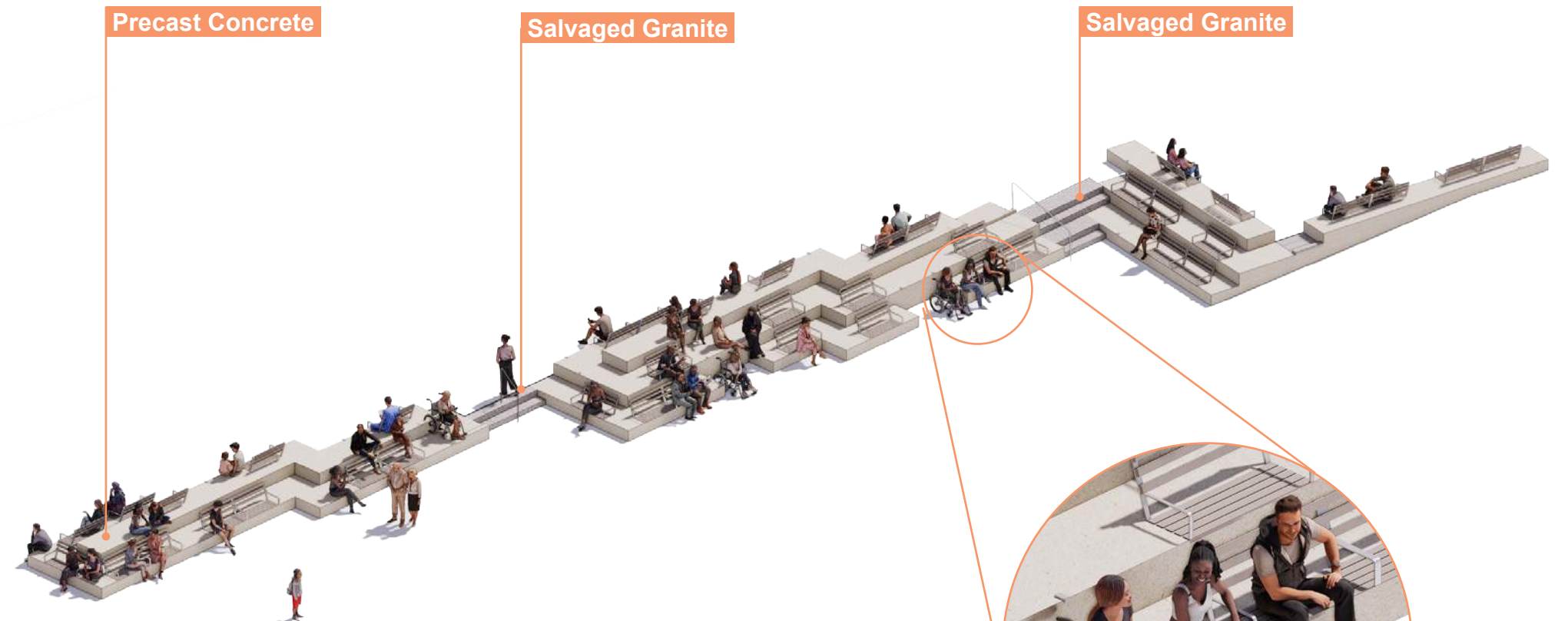
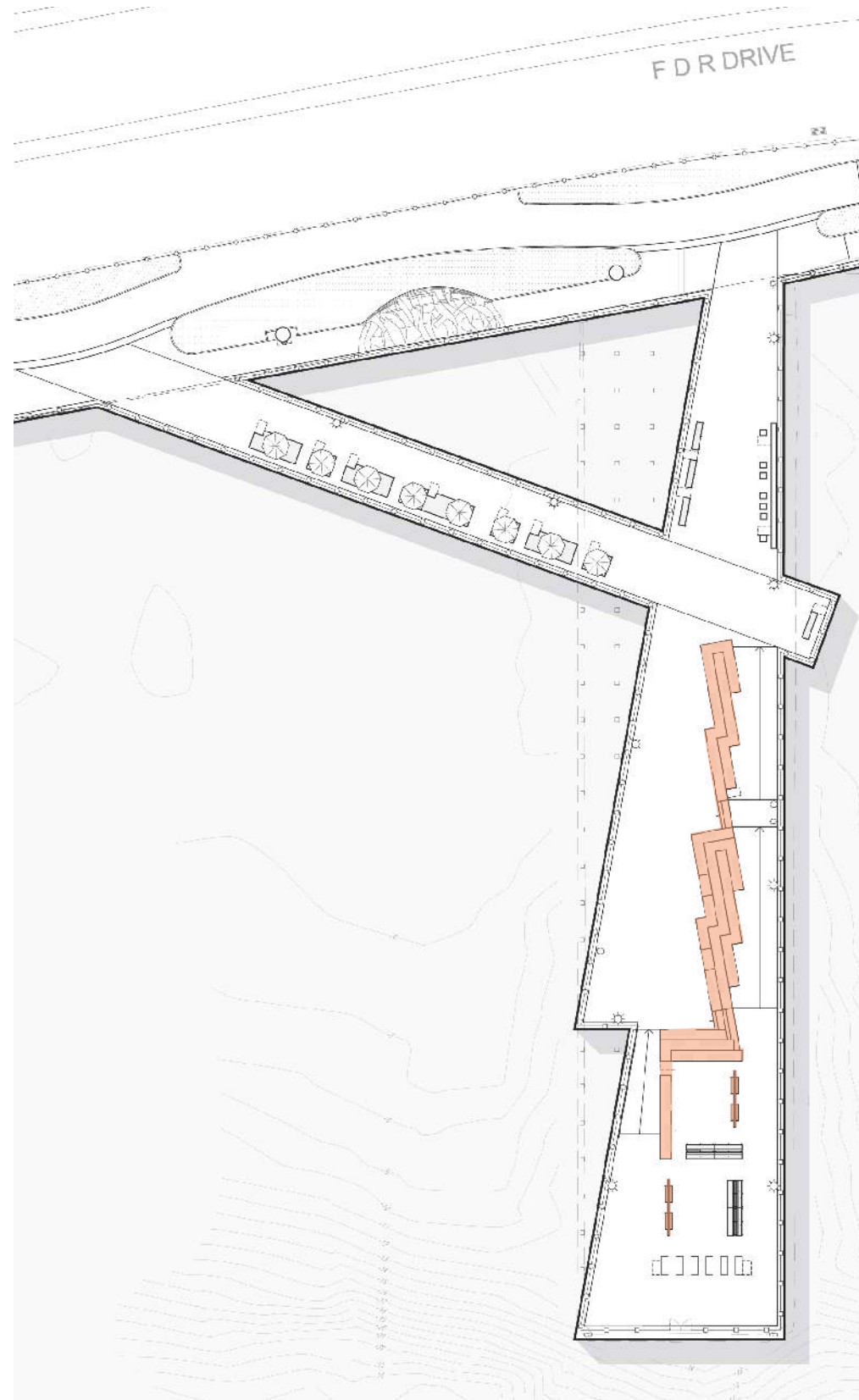
 **1964 WORLD'S FAIR BENCH 8'**
 Mfr.: Kenneth Lynch & Sons
 Lumber Color: Weathered Wood
 Metal: Galvanized Steel



 **RAIL SEATING**
 Mfr.: FineConcrete
 Material: Concrete and RPL

-  Mango
Landscapeforms
-  Weathered Wood
RPL
-  Black Tnemec



107th St Pier | Seating Steps & Glider Swings



SEATING STEPS
 Mfr.: TBD
 Material: Precast Concrete and RPL Wood



GLIDER SWING
 Mfr.: Landscapeforms
 Material: Metal and RPL Wood

-  Precast Concrete
-  Weathered Wood RPL

Musical Interactive Play



TELEPHONE TUBE



TAMBOR DRUM



BATA DRUM



AFRICAN-ASIAN DRUM & CARIBBEAN DRUM



TALKING DRUM

107th STREET PIER and BOBBY WAGNER WALK

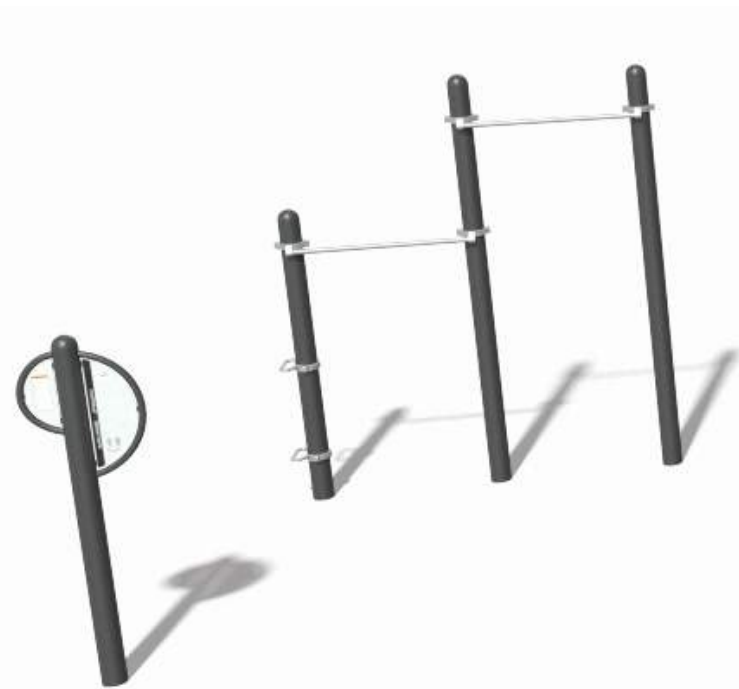


Stantec MARVEL phyto

Adult Fitness Equipment & Safety Surface



OVERHEAD LADDER



DUAL PULL UP BARS



JUMP POD SET



Mfr.: Mitchell Rubber
Material: Rubber
Lumber Color: Ocean

SAFETY SURFACE



TRIPLE BARS



SQUAT PRESS & HAND CYCLER



Denim

Post



Orange

Other Components

Mfr.: Landscape Structure
Lumber Color: Denim & Orange

EQUIPMENT COLOR

Planting Palette - Canopy Trees

SUPER CANOPY TREES

SPECIES

FALL COLOR



Quercus bicolor
Swamp white oak



Quercus ellipsoidalis
Northern pin oak



Quercus macrocarpa
Shingle oak



Quercus phellos
Willow oak

SPECIES

FALL COLOR



Quercus rubra
Northern red oak



Ulmus x 'Morton' ACCOLADE
American elm

CANOPY TREES

SPECIES

FALL COLOR



Acer rubrum (cultivars)
Red maple



Carya cordiformis
Bitternut hickory



Celtis occidentalis
Common hackberry



Gleditsia triacanthos (cultivars)
Honey locust

SPECIES









FALL COLOR



Nyssa sylvatica
Blackgum

Planting Palette - Understory Trees

UNDERSTORY TREES

SPECIES	FEATURE
 <p><i>Amelanchier canadensis</i> Serviceberry - Fall color</p>	 <p>Spring bloom</p>
 <p><i>Cercis canadensis</i> Eastern redbud</p>	 <p>Spring bloom</p>
 <p><i>Crataegus</i> ssp. Hawthorn</p>	 <p>Fruit - winter presence</p>
 <p><i>Magnolia virginiana</i> Sweetbay magnolia</p>	 <p>Spring bloom</p>

SPECIES	FEATURE
 <p><i>Rhus typhina</i> Staghorn sumac</p>	 <p>Fall color</p>
 <p><i>Sassafras albidum</i> Sassafras</p>	 <p>Fall color</p>

EVERGREENS

SPECIES	FEATURE
 <p><i>Juniperus virginiana</i> (cultivars) Eastern red cedar</p>	 <p>Fruit</p>
 <p><i>Juniperus chinensis</i> 'Fairview' Fairview juniper</p>	 <p>Fruit</p>
 <p><i>Ilex opaca</i> American holly</p>	 <p>Fruit</p>

Planting Palette - Shrubs

SHRUB MASSING

SPECIES



Baccharis halimifolia
Groundsel bush

FEATURE



In flower

LOW SHRUB MASSING

SPECIES



Comptonia peregrina
Sweetfern

FEATURE



Fall color

SPECIES



Rosa virginiana
Virginia rose

FEATURE



Fruit



Morella pensylvanica
Northern bayberry



Fruit



Diervilla lonicera
Northern bush honeysuckle



Fall color



Rhus glabra
Smooth sumac



Fall color



Prunus maritima
Beach plum



Fruit



Rhus copallinum
Winged sumac



Fall color





Rhus aromatica 'Gro-Low'
Fragrant sumac





Fall color

Planting Palette - Herbaceous Seasonal Theme Plants



SEASONAL THEME PLANTS

SPECIES	FEATURE
 <i>Vernonia</i> spp. Ironweed	 Winter presence

 <i>Amsonia</i> spp. Bluestar	 Fall color
---	---



 <i>Asclepias</i> spp. Milkweed	 Flower with Monarch
---	--

 <i>Rudbeckia</i> spp. Blackeyed Susan	 Flower
--	---



SPECIES	FEATURE
 <i>Eupatorium hyssopifolium</i> Hyssopleaf thoroughwort	 Blooming



 <i>Symphyotrichum</i> spp. Aster	 Flower
---	---



 <i>Solidago</i> spp. Goldenrod	 Flower
---	---



 <i>Pycnanthemum</i> spp. Mountainmint	 Flower
--	---

ORNAMENTAL GRASSES

SPECIES	FEATURE
 <i>Andropogon virginicus</i> Broomsedge	 Winter color

 <i>Eragrostis spectabilis</i> Purple lovegrass	 Inflorescence
--	--

 <i>Sorghastrum n.</i> (cultivars) Indiangrass	 Winter color
---	---

 <i>Panicum virgatum</i> (cultivars) Switchgrass	 Winter color
---	---

SCATTERED GROUND COVERS

SPECIES	FEATURE
 <i>Geum triflorum</i> Prairie smoke	 Flower

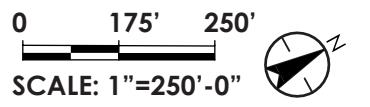
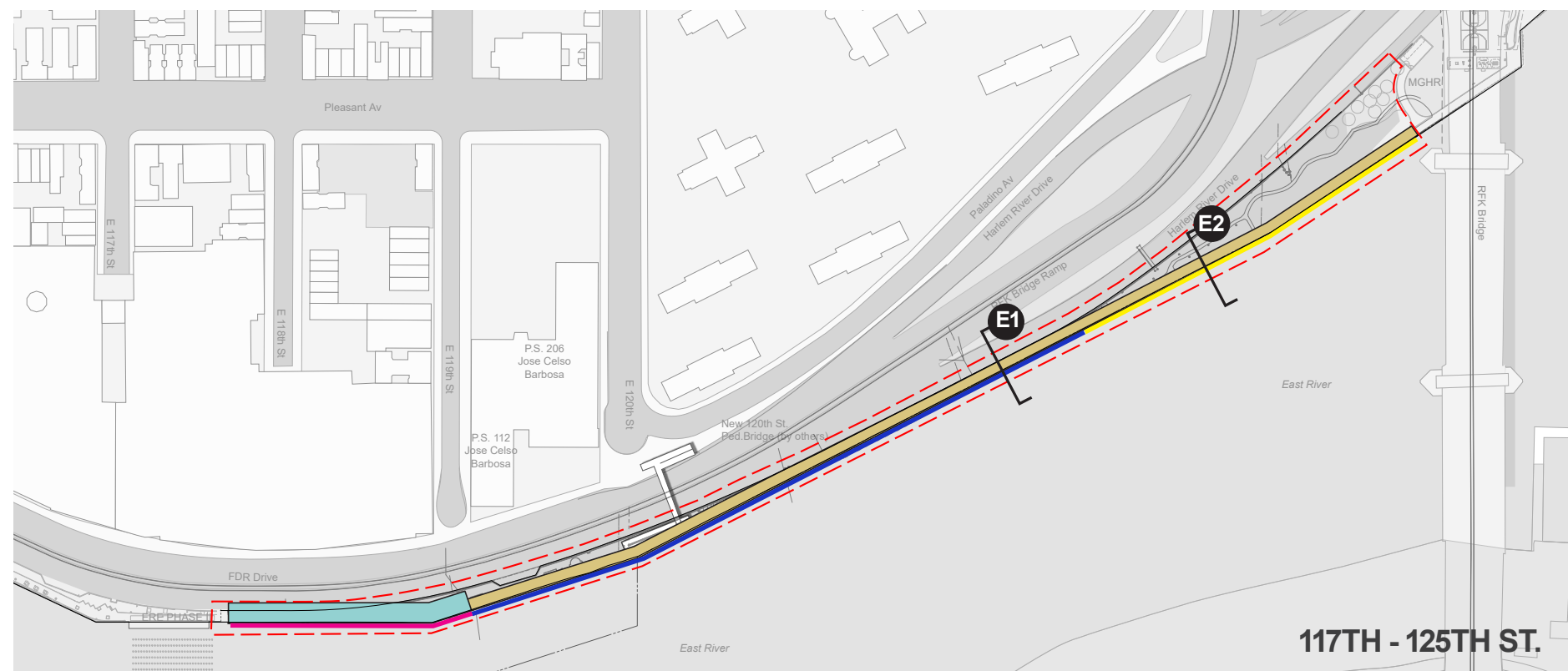
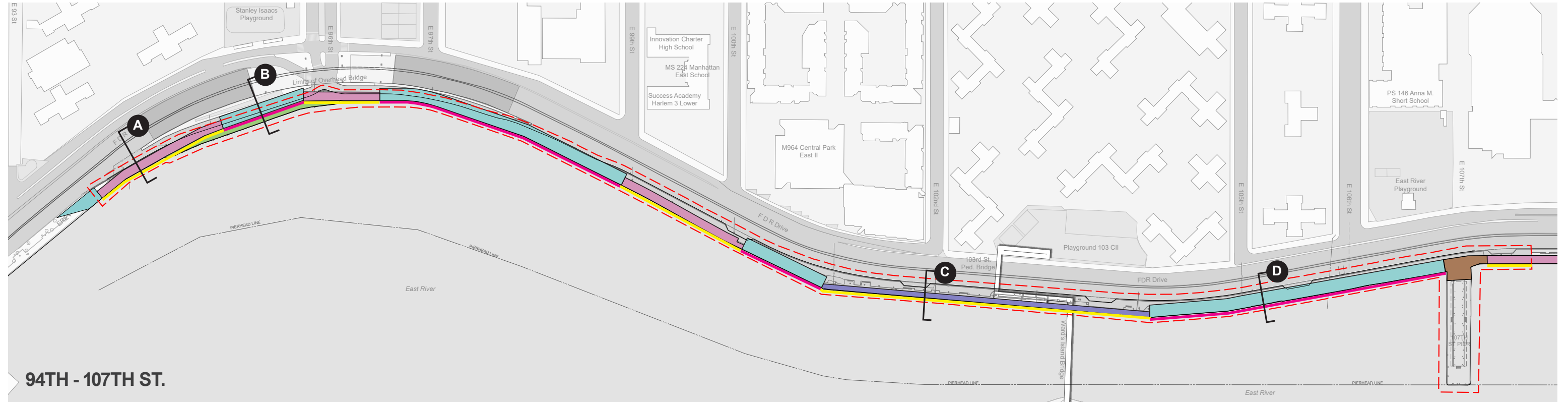
 <i>Packera obovata</i> Roundleaf Ragwort	 Wintergreen foliage
--	--

 <i>Viola</i> spp. Violet	 Flower
--	---

 <i>Carex</i> spp. Sedges	 Inflorescence
--	--

APPENDIX

Existing Platform/Seawall Structural Type Plan



LEGEND

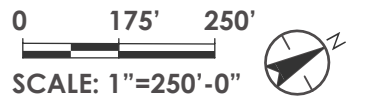
- - - APE
- Low-level platform / Type IV
- 1876 type gravity wall/platform supported on piles / Type IIIB
- High-level platform
- Timber Crib
- Gravity seawall supported on bedrock
- 1876 type gravity wall supported on piles / Type IIA - no platform
- Granite block
- 9 in Granite slab
- 9 in Granite fascia panel

107th STREET PIER and BOBBY WAGNER WALK



Stantec MARVEL phyto

Proposed Platform/Seawall Structure Type Layout



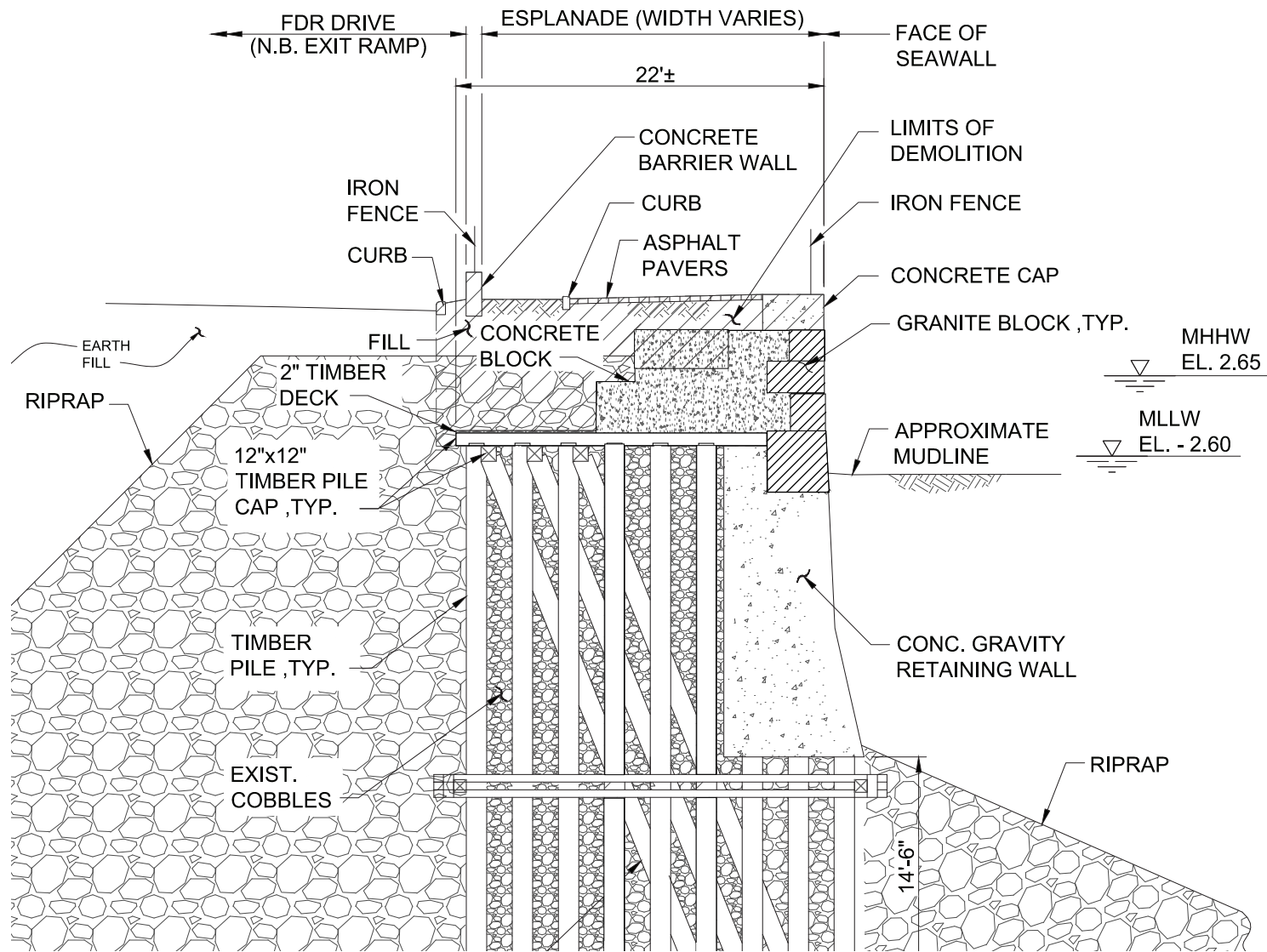
LEGEND

- - - Work limit
- New FDR jersey barrier
- New seawall
- █ ERE on new platform (allow additional load from new elements)
- █ ERE on fill (allow additional load from new elements)
- █ ERE on rehabilitated platform (using lightweight fill to balance out load from new elements)

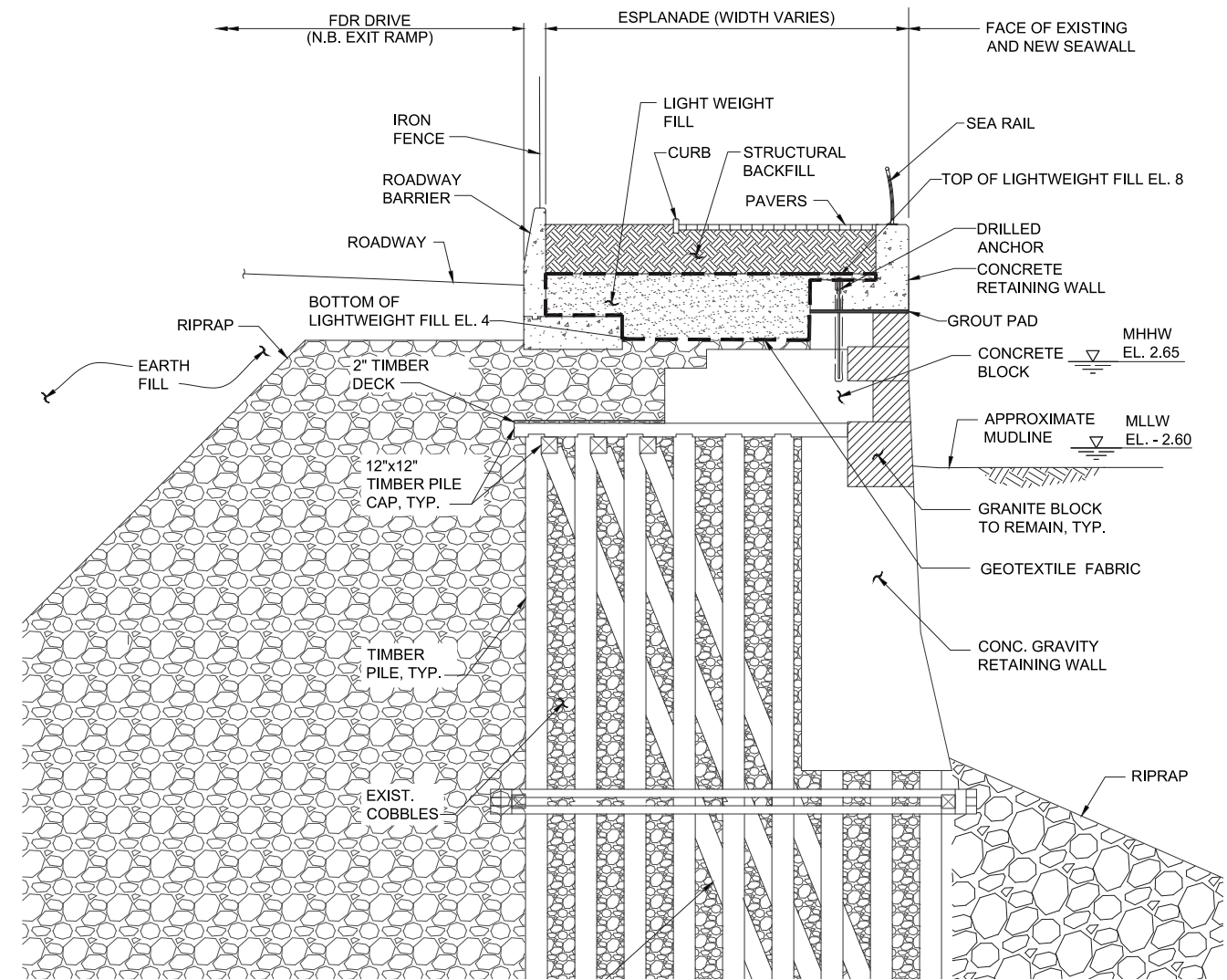
Existing & Proposed Structure Sections

SECTION A - 1876 TYPE GRAVITY WALL/ PLATFORM SUPPORTED ON PILES

Proposed esplanade will be ~ 2' to 3' higher than existing grade to account for future sea level rise.



EXISTING SECTION

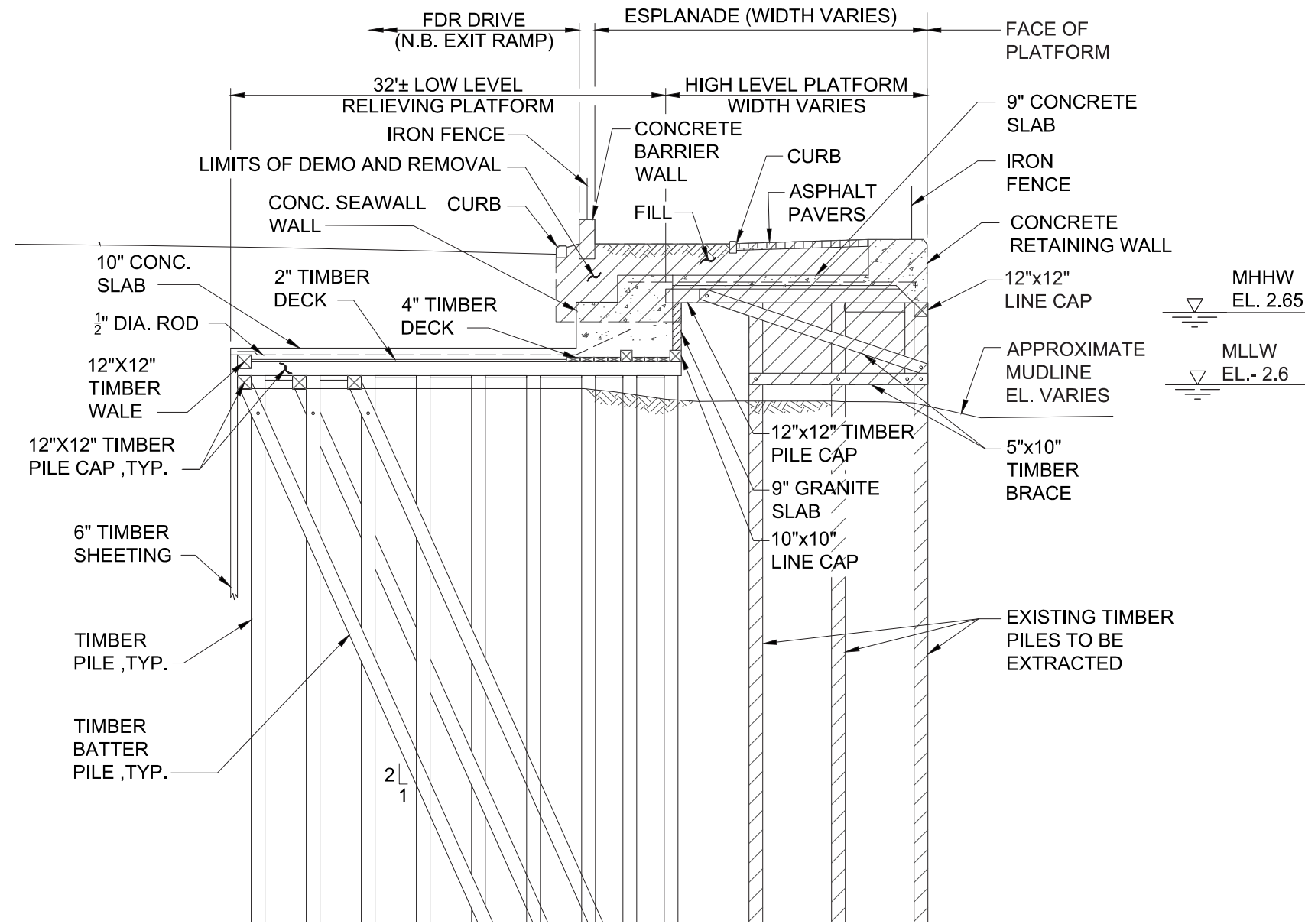


PROPOSED SECTION

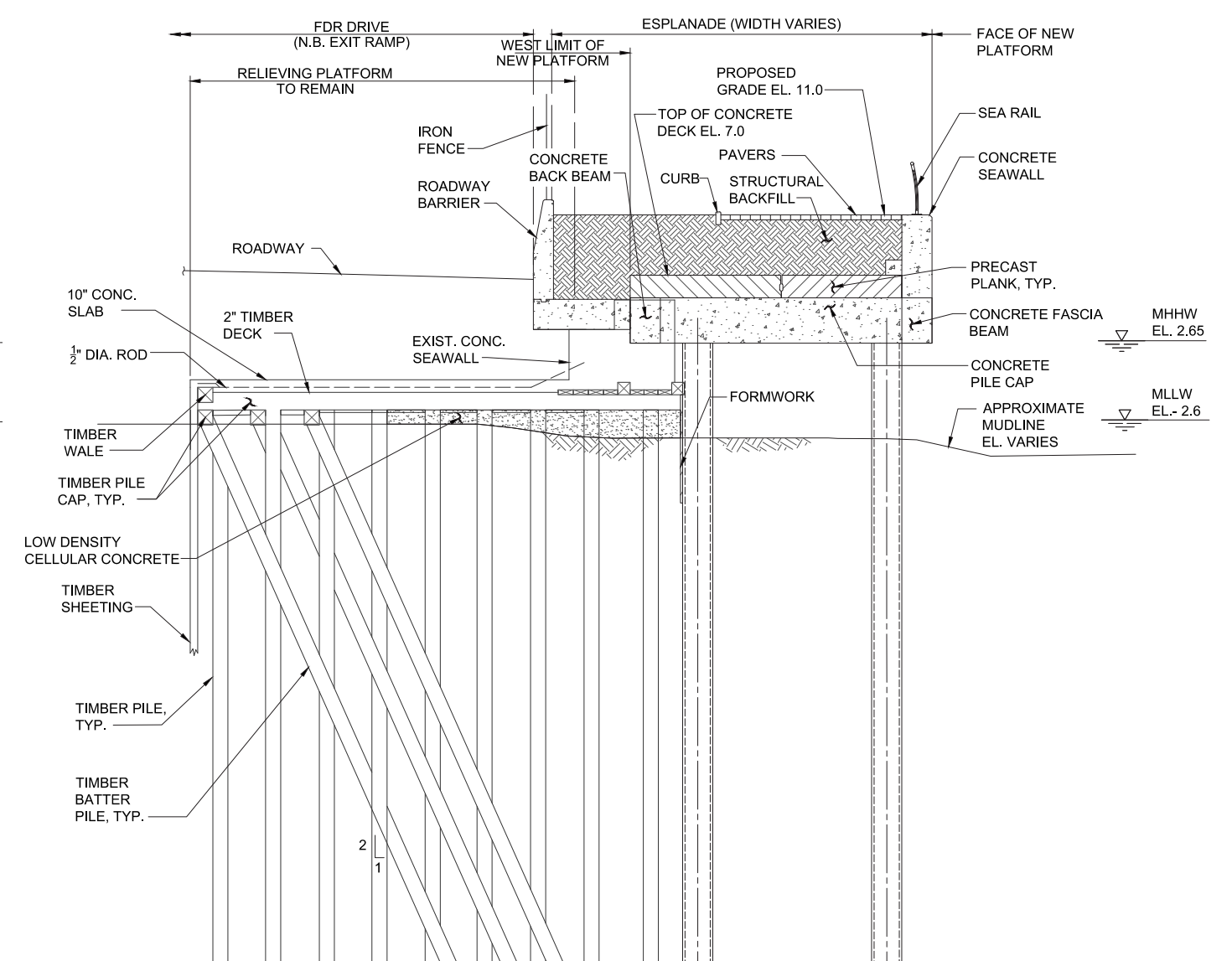
Existing & Proposed Structure Sections

SECTION B - LOW-LEVEL PLATFORM + HIGH-LEVEL PLATFORM

Proposed esplanade will be ~ 2' to 3' higher than existing grade to account for future sea level rise.



EXISTING SECTION

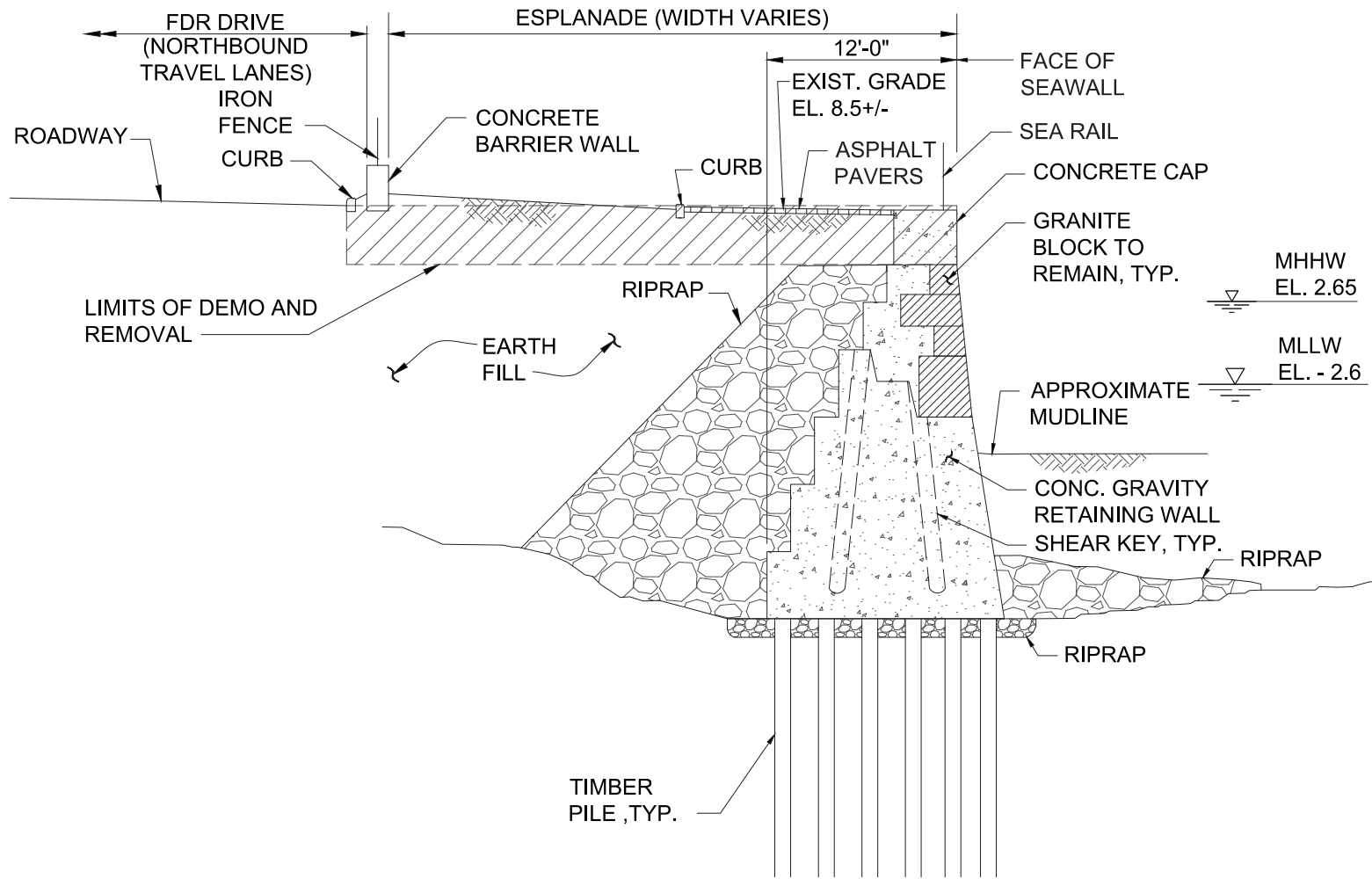


PROPOSED SECTION

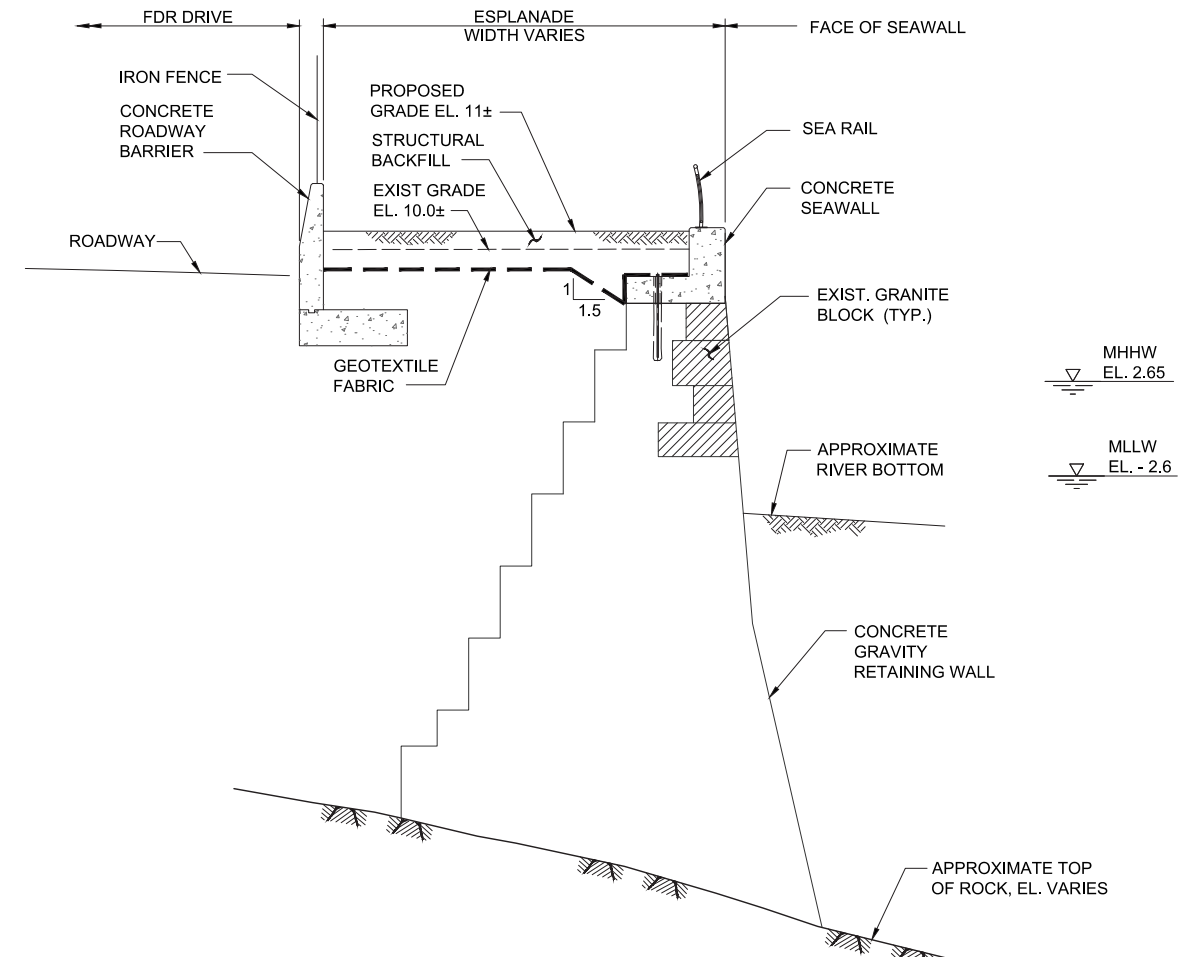
Existing & Proposed Structure Sections

SECTION C - 1876 TYPE GRAVITY WALL SUPPORTED ON PILES - NO PLATFORM

Proposed esplanade will be ~ 2' to 3' higher than existing grade to account for future sea level rise.



EXISTING SECTION

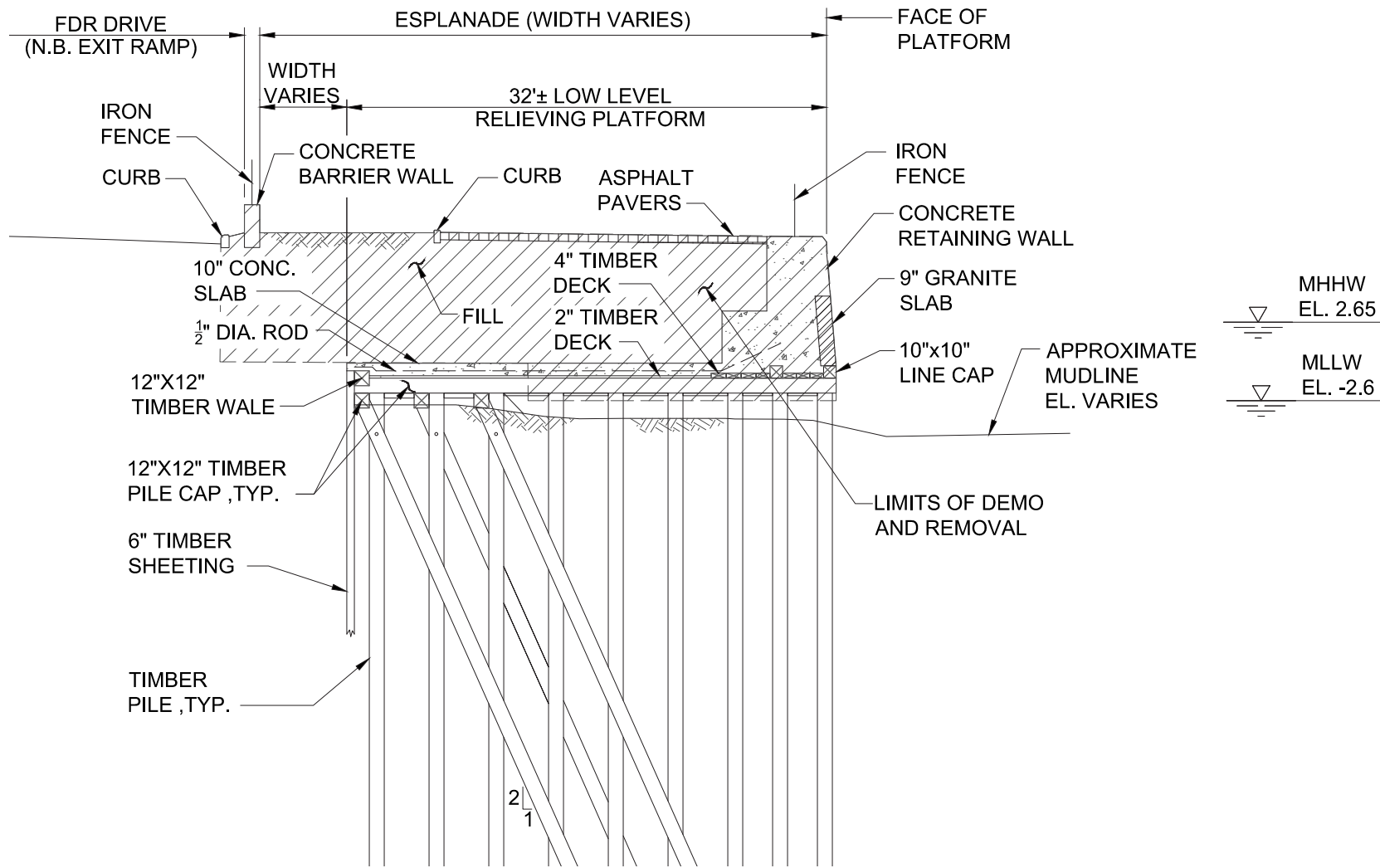


PROPOSED SECTION

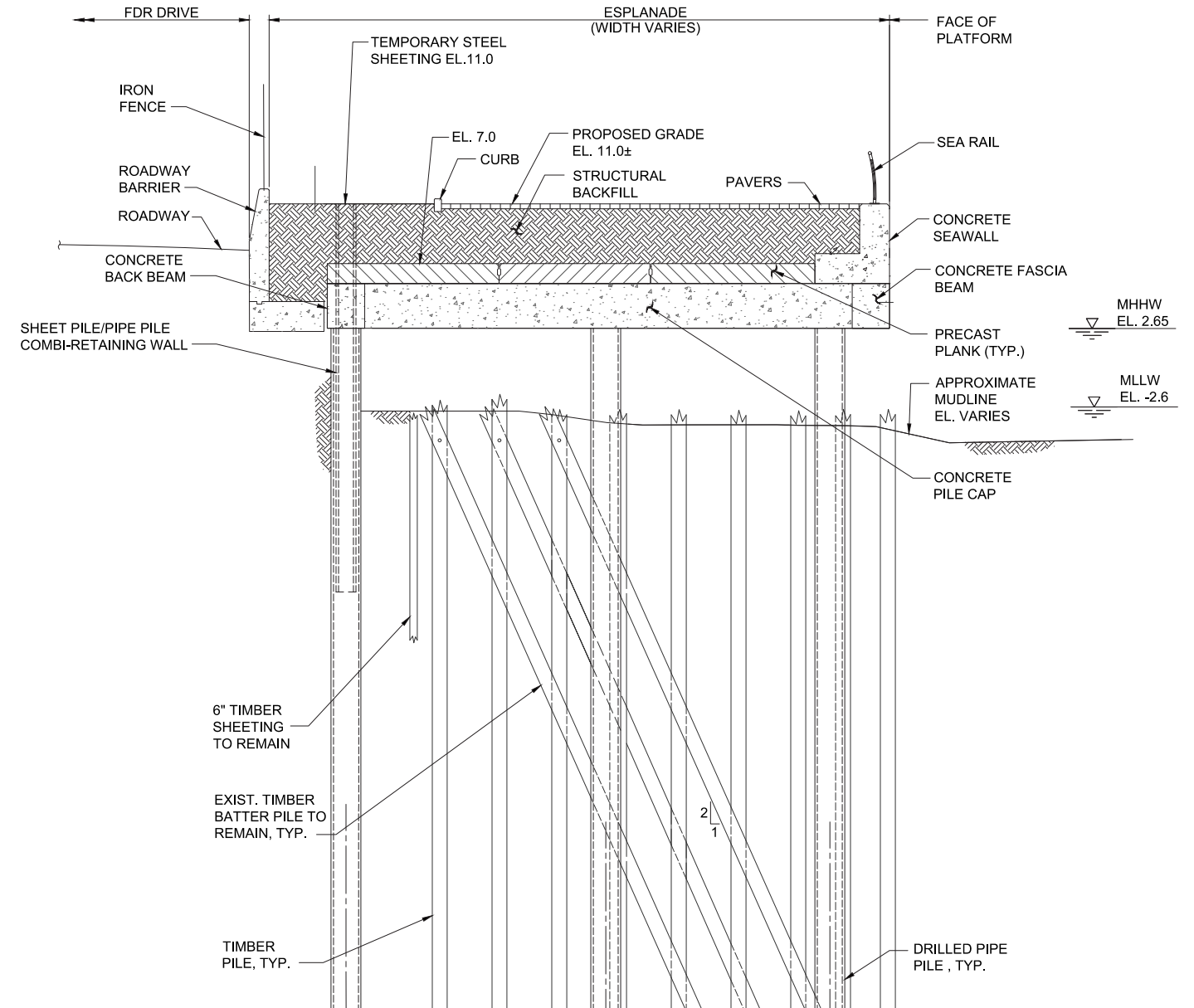
Existing & Proposed Structure Sections

SECTION D - LOW-LEVEL PLATFORM

Proposed esplanade will be ~ 2' to 3' higher than existing grade to account for future sea level rise.



EXISTING SECTION

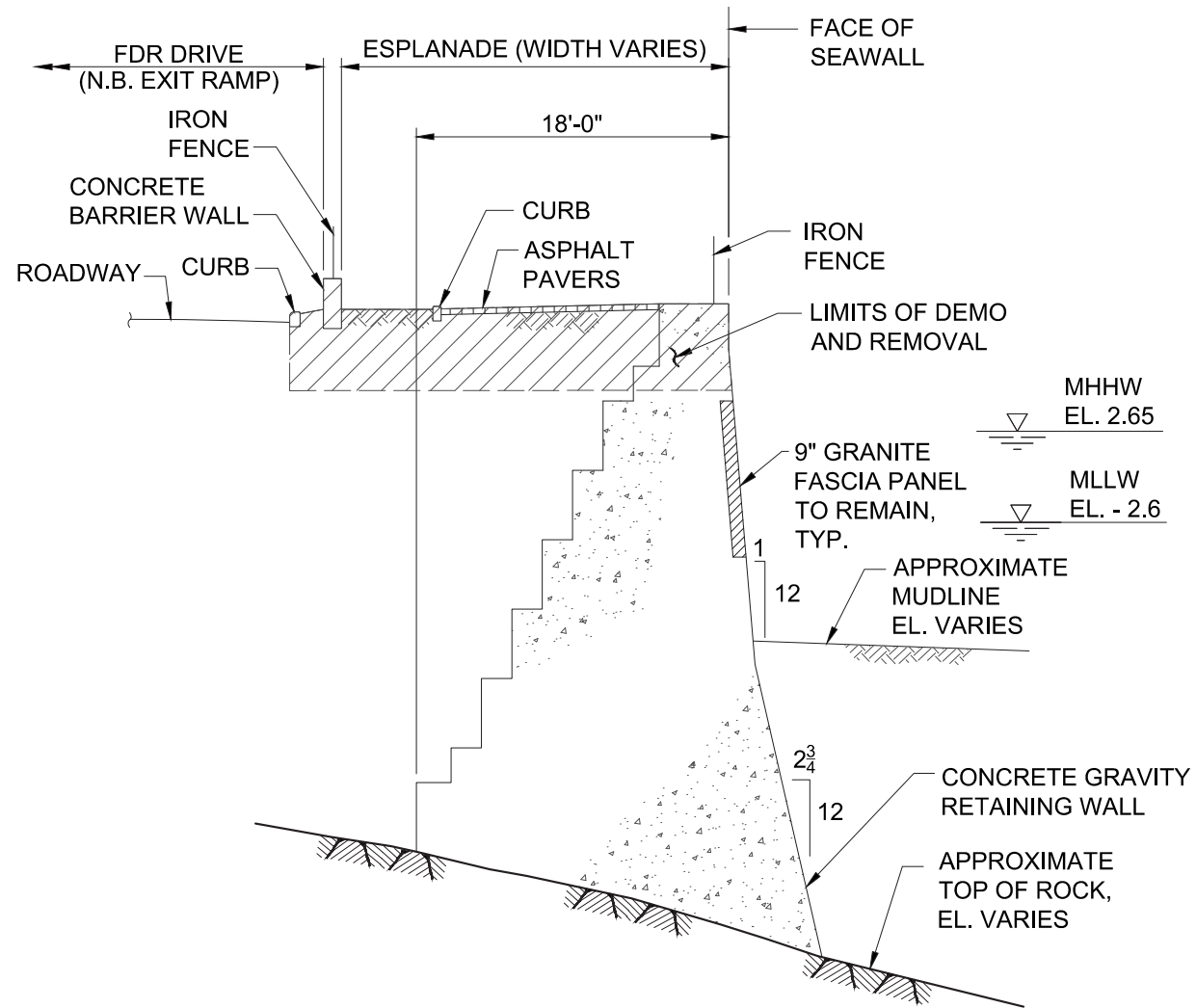


PROPOSED SECTION

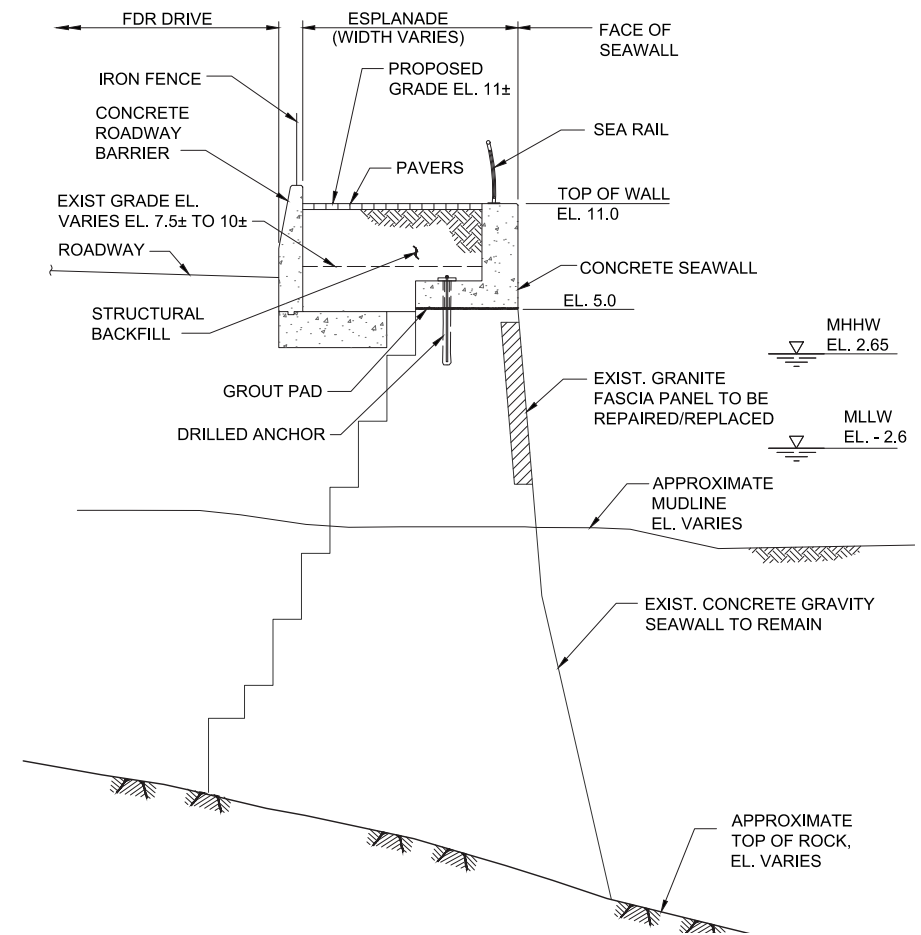
Existing & Proposed Structure Sections

SECTION E1 - GRAVITY SEAWALL SUPPORTED ON BEDROCK

Proposed esplanade will be ~ 2' to 3' higher than existing grade to account for future sea level rise.



EXISTING SECTION

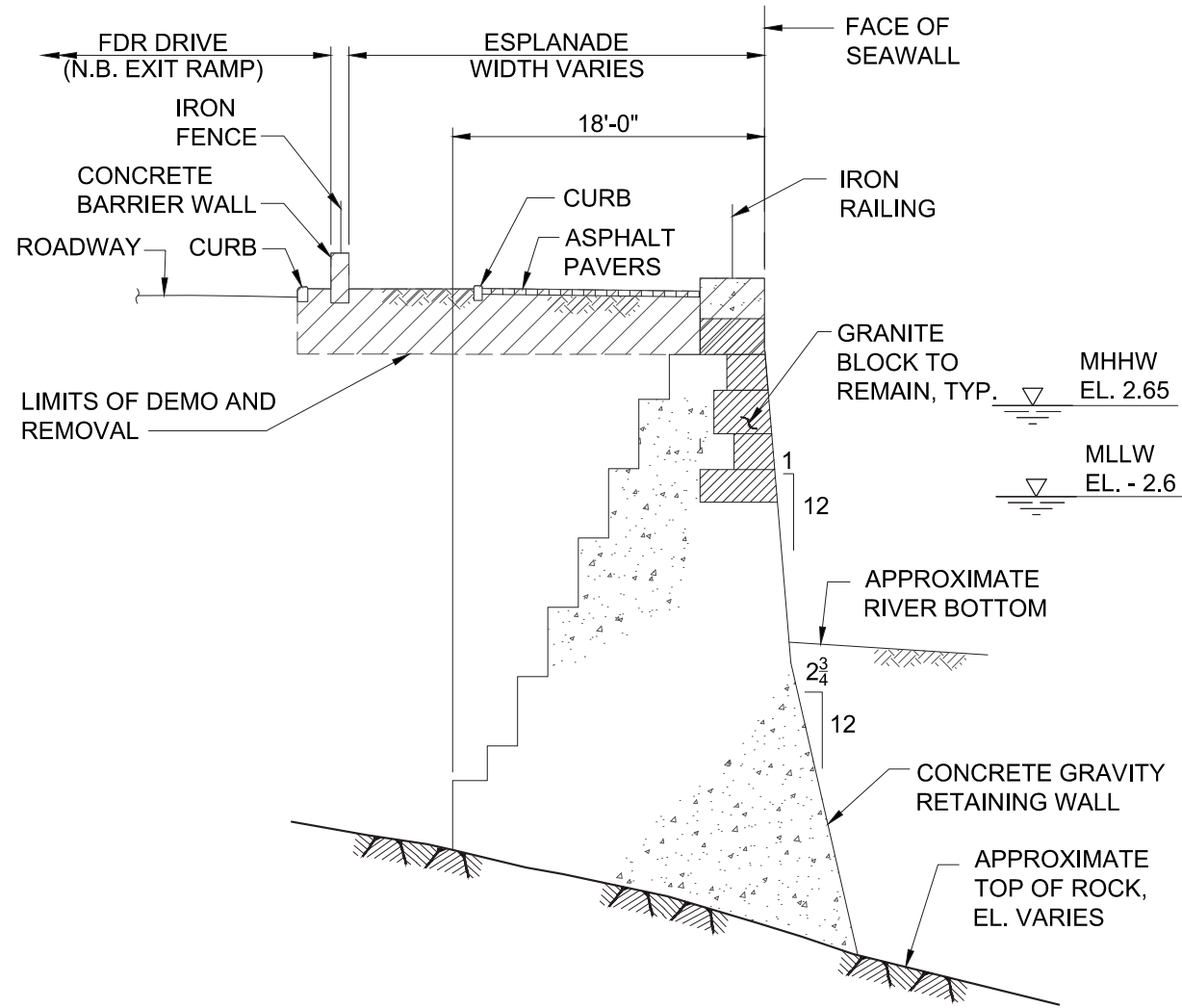


PROPOSED SECTION

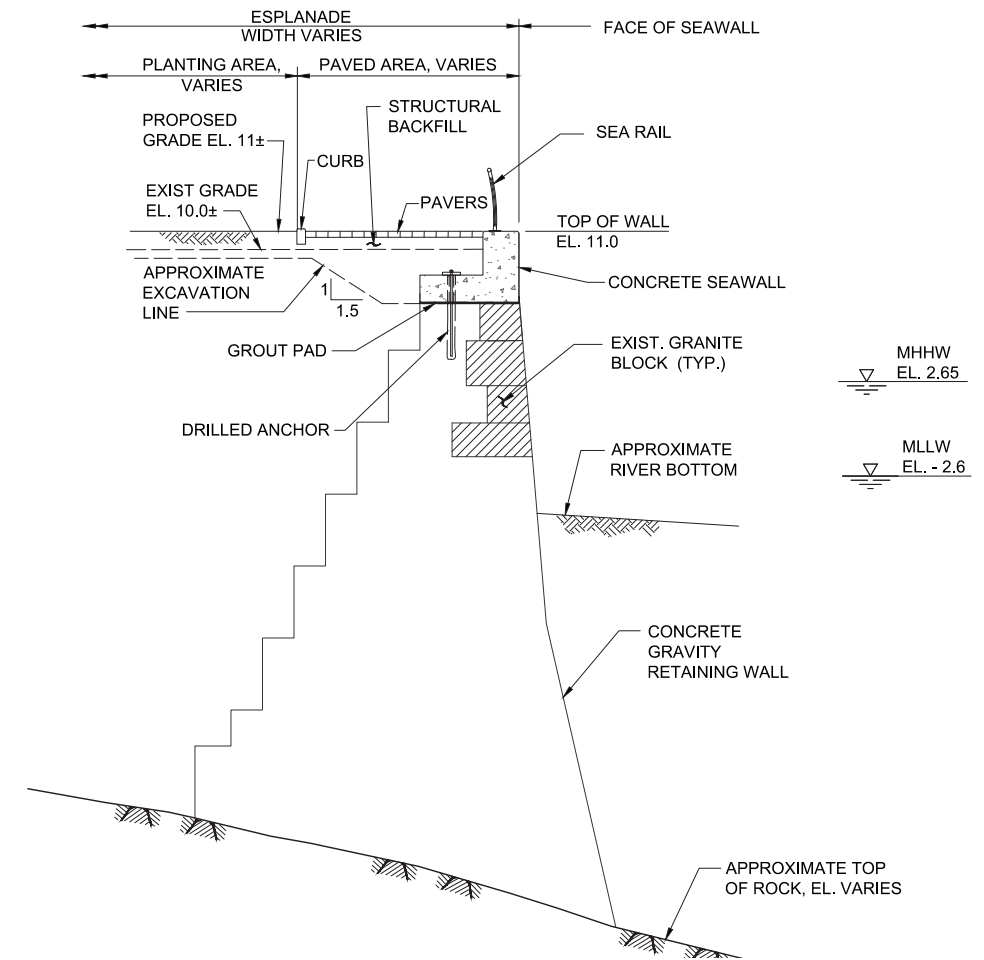
Existing & Proposed Structure Sections

SECTION E2 - GRAVITY SEAWALL SUPPORTED ON BEDROCK

Proposed esplanade will be ~ 2' to 3' higher than existing grade to account for future sea level rise.



EXISTING SECTION



PROPOSED SECTION