

# **East Side Coastal Resiliency**

**LESReady! Monthly Membership  
ESCR Design and Construction Phasing Briefing**

**82 Rutgers Slip, New York, NY 10002**

**November 21, 2019**





An aerial photograph of a city waterfront, likely New York City, showing a bridge crossing a river. The area includes parks with green fields and trees, and a dense urban area with many buildings. The image is overlaid with a semi-transparent teal color.

# **PRESENTATION AGENDA**

**SITE DESIGN UPDATE**

**SITE ELEMENTS**

**SITE BUILDINGS AND STRUCTURES**

**AMPHITHEATER DESIGN UPDATE**

**PROJECT SCHEDULE AND CONSTRUCTION PHASING**



An aerial photograph of a city waterfront, likely New York City, featuring a large suspension bridge crossing a body of water. The city skyline is visible in the background, and several green park spaces are situated along the waterfront. The image is overlaid with a semi-transparent teal filter.

# **SITE DESIGN UPDATE**



# CORLEARS HOOK BRIDGE

PRELIMINARY DESIGN





# CORLEARS HOOK BRIDGE LANDING

PRELIMINARY DESIGN



**AMPHITHEATER DESIGN  
IS IN PROGRESS**



# CORLEARS SHARED USE PATH

PRELIMINARY DESIGN





# DELANCEY BRIDGE

PRELIMINARY DESIGN





# DELANCEY BRIDGE LANDING

PRELIMINARY DESIGN







**E 10<sup>TH</sup> STREET BRIDGE**  
PRELIMINARY DESIGN





**E 10<sup>TH</sup> STREET BRIDGE**  
BRIDGE VIEW





**E 10<sup>TH</sup> STREET BRIDGE**  
PARK VIEW



# 10TH STREET PLAYGROUND

PRELIMINARY DESIGN





# 10TH STREET BBQ

PRELIMINARY DESIGN





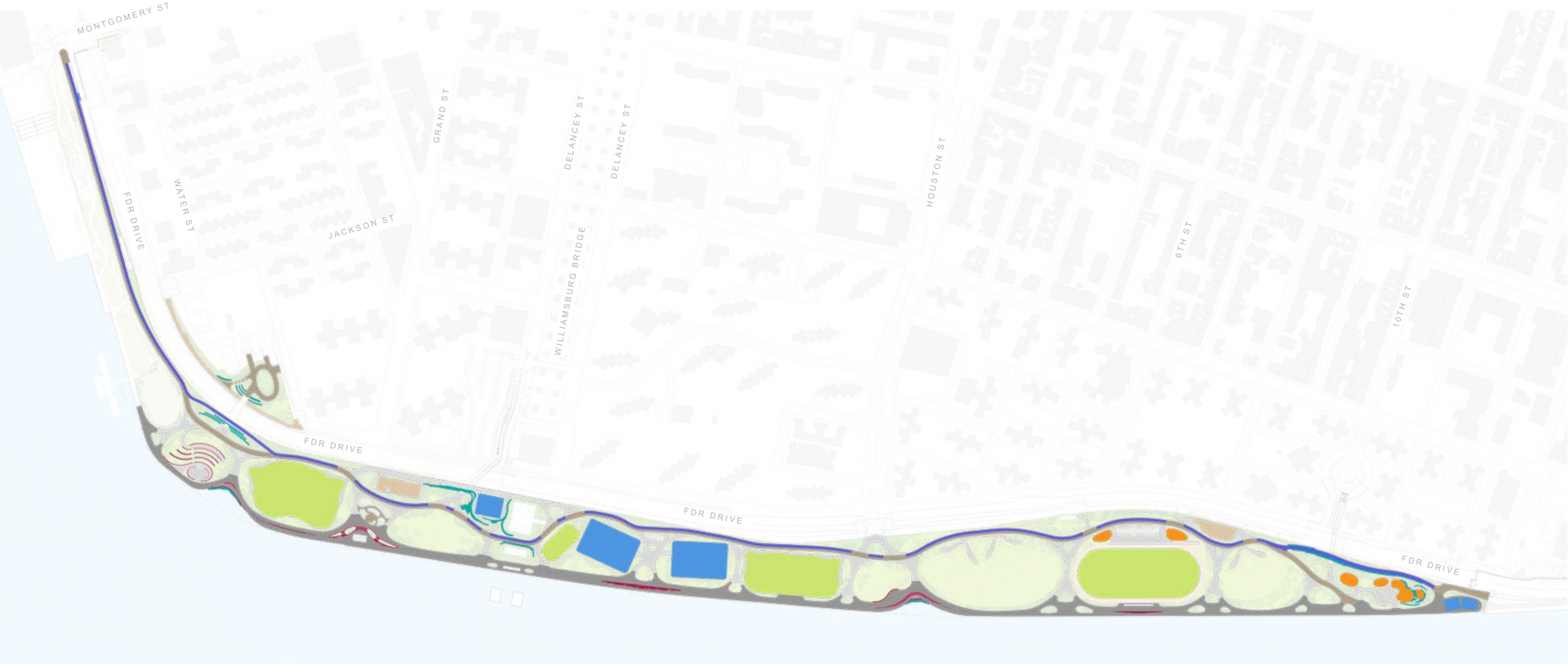
An aerial photograph of a city waterfront, likely New York City, showing a large bridge crossing a river. The city skyline is visible in the background, and several green spaces and parks are highlighted along the waterfront. The text "SITE ELEMENTS" is overlaid in the center.

# **SITE ELEMENTS**



# PARK MATERIALS

## PROJECT AREA 1



- |                                      |                                     |
|--------------------------------------|-------------------------------------|
| ASPHALT BLOCK                        | SAFETY SURFACE                      |
| CONCRETE PAVEMENT 6"                 | ASPHALT PAVEMENT WITH SURFACE PAINT |
| CONCRETE PAVEMENT 5"                 | SYNTHETIC TURF                      |
| ASPHALT PAVEMENT BIKE LANE           | STONE                               |
| CEMENT CONCRETE PAVEMENT MAINTENANCE | AVERAGE PRECAST CONCRETE            |



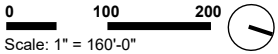
# LIGHTING

## KEY PLAN



**LEGEND**

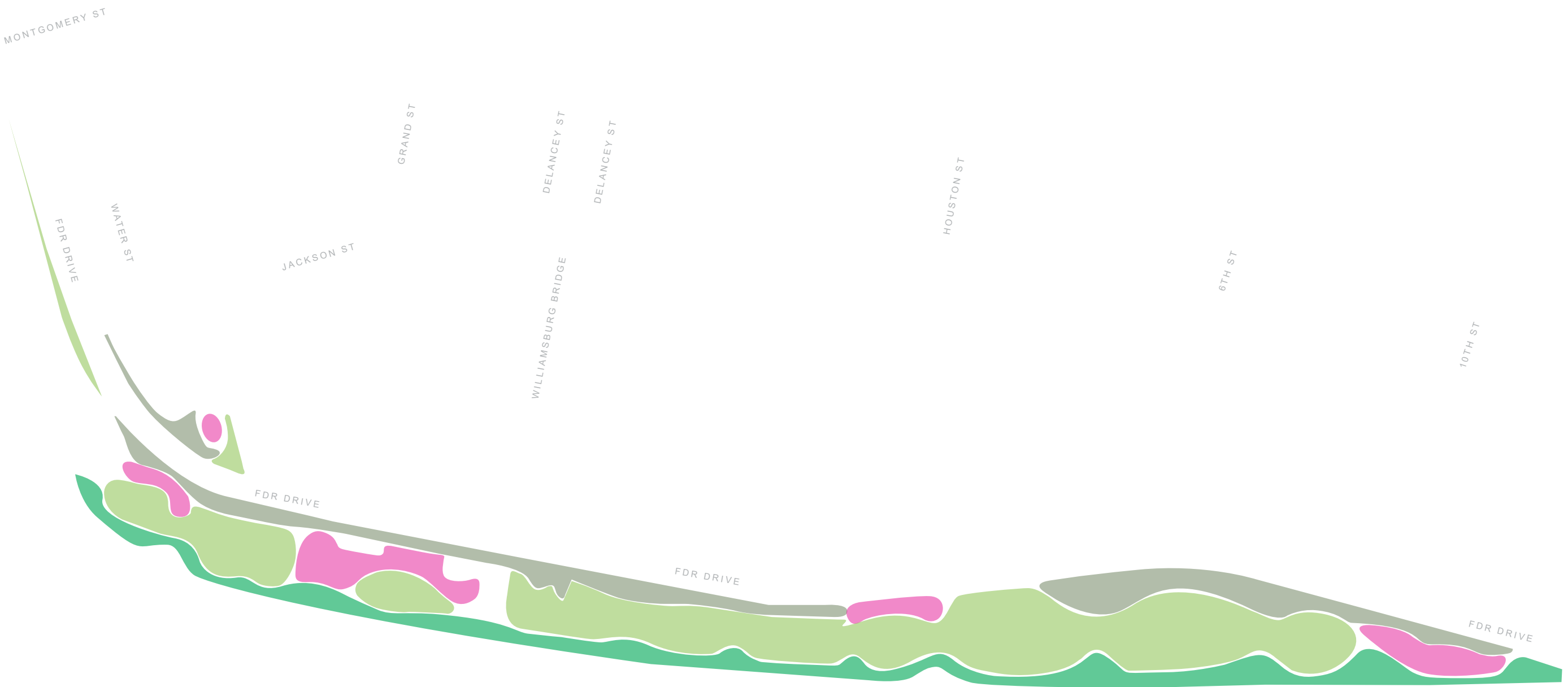
- ESCR LIMIT OF WORK
- EVERGEN M SERIES SOLAR LIGHT 18' POLE
- FLUSHING MEADOWS 12' POLE
- SPORTS TOWER 60'-80' POLE
- SPORTS TOWER 30' POLE
- DOT STANDARD DAVIT 30' POLE





# PLANTING

SPACIAL CONCEPT



WOODLAND  
EDGES

PASTORAL  
OPENINGS

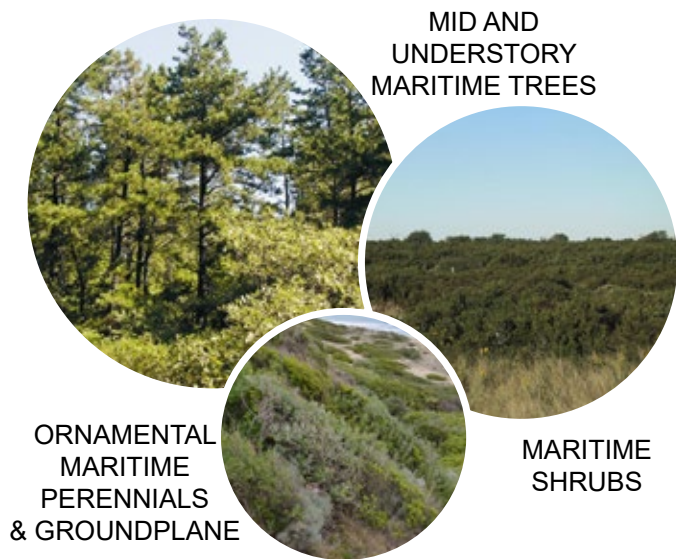
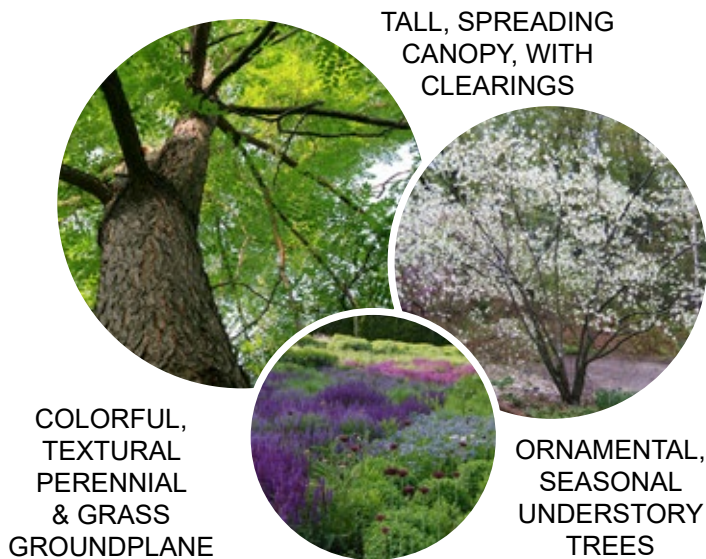
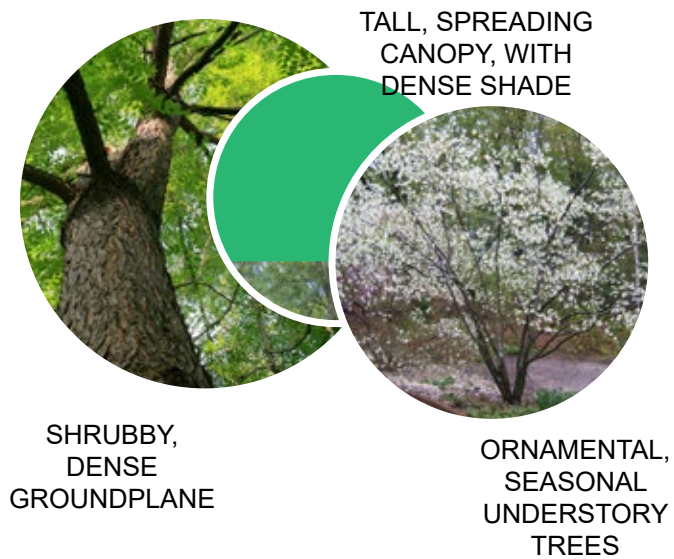
LAYERED  
GROVES

MARITIME  
EDGES



# PLANTING

## SPACIAL CONCEPT



**HIGH, FULL CANOPY  
CREATES CONNECTED,  
DAPPLED SHADE**



**WOODLAND  
EDGES**

- Location: Western urban edge of park. Ornamental understory trees, conifers, shrubs, and perennials provide visual interest along paths and slopes while buffering views
- Maintenance: Trees, shrubs, groundcovers



**PASTORAL  
OPENINGS**

- Location: Open lawns and spectator areas
- Lawn groundplane maintains open sight lines and open circulation
- Maintenance: Trees, lawn



**LAYERED  
GROVES**

- Location: Clearing edges and special areas
- Ornamental understory trees and a low perennial groundplane maintain veiled, eye-level sight lines
- Maintenance: Trees, garden beds



**MARITIME  
EDGES**

- Location: Maritime edges of open spaces and esplanade
- Mid and Understory trees, maritime evergreens, shrubs, and grasses provide shade and interest along the river edge
- Maintenance: Trees, shrubs, grasses



# FLOOD AND HIGHWAY WALLS

## WALL FINISH TOOLKIT

SHORT MODULES



PEDESTRIAN PATH 3.1 MPH = 4.5 FT/S

MEDIUM MODULES




BIKING PATH 9.6 MPH = 14 FT/S

LONG MODULES



FDR DRIVE 40 MPH = 58.6 FT/S



An aerial photograph of a city, likely New York City, showing a dense urban area with a grid of streets and buildings. A large bridge, possibly the Manhattan Bridge, spans a body of water. Along the waterfront, there are several green spaces, including parks and sports fields. The image is overlaid with a semi-transparent teal filter.

# **SITE BUILDINGS AND STRUCTURES**



**PARK BUILDINGS**  
PRELIMINARY DESIGN  
DESIGN IN PROGRESS



**Tennis House**



**Track Building**

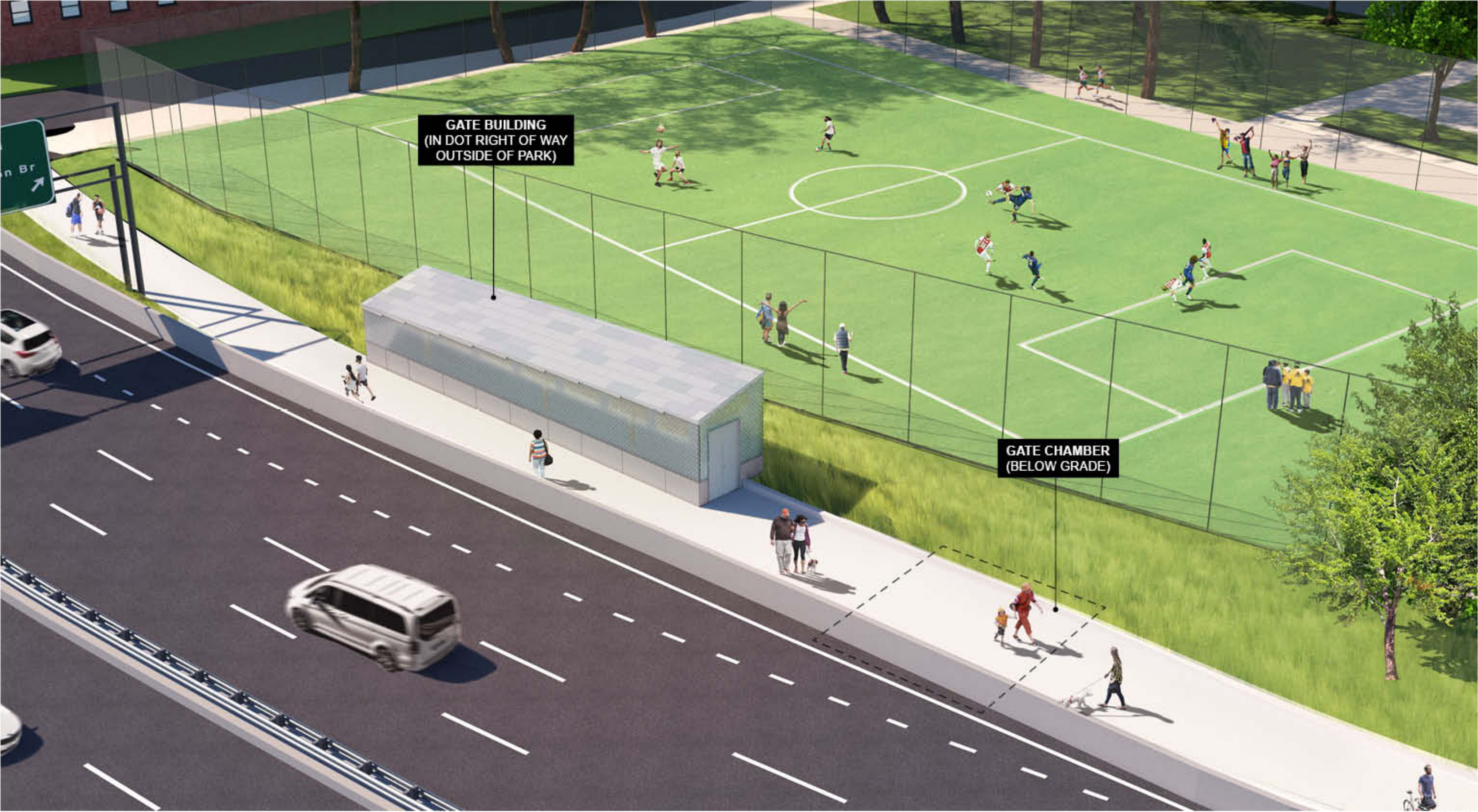


**10th St Comfort Station**



# IMPROVED DRAINAGE

## SOUTH INTERCEPTOR GATE CHAMBER & BUILDING





# INTERCEPTOR GATE BUILDING

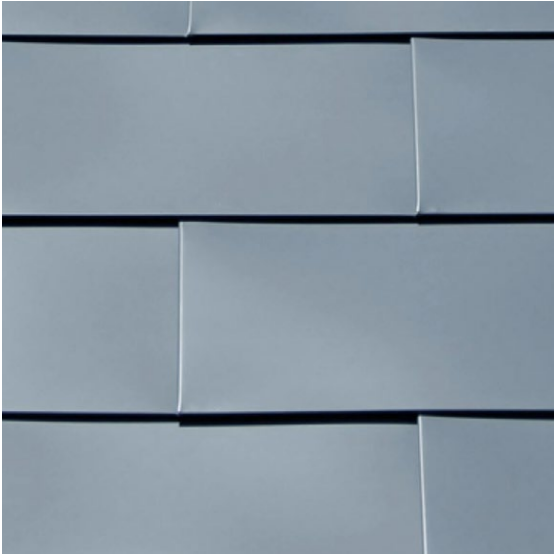
MATERIAL PALETTE



DETAIL ELEVATION



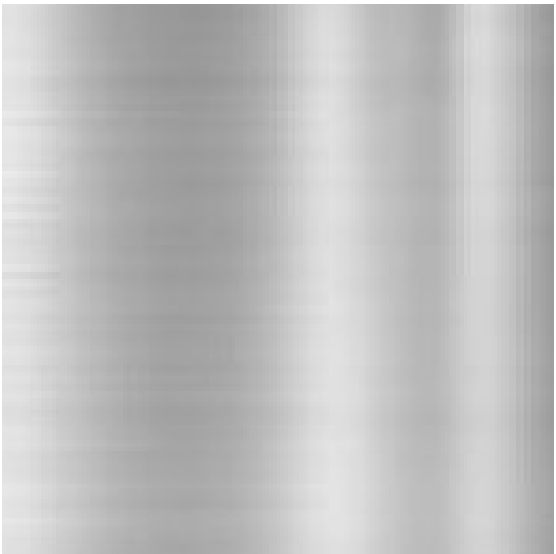
2 **SOLID GLASS BRICK**  
Facade



1 **FLAT-LOCK METAL TILE**  
Sloped Roof Assembly



4 **Barre Grey Granite**  
Stone Base



3 **STAINLESS STEEL**  
Backup Wall & Doors



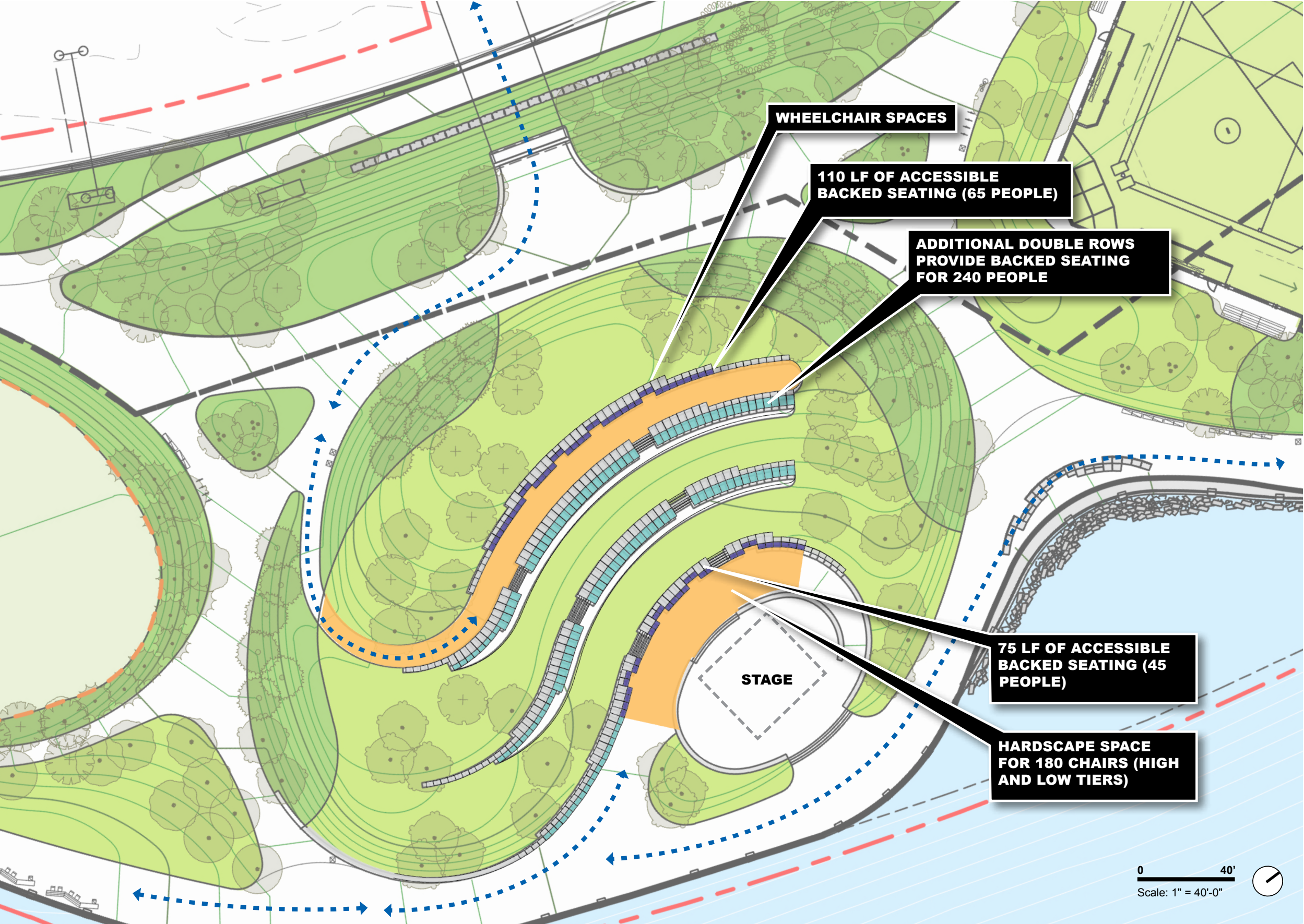
An aerial photograph of a city waterfront, likely New York City, showing a large bridge crossing a body of water. The city skyline is visible in the background, and several green spaces and parks are situated along the waterfront. The image is overlaid with a semi-transparent teal filter.

# **AMPHITHEATER DESIGN UPDATE**



# SEATING AND ACCESSIBILITY

## BACKED SEATING





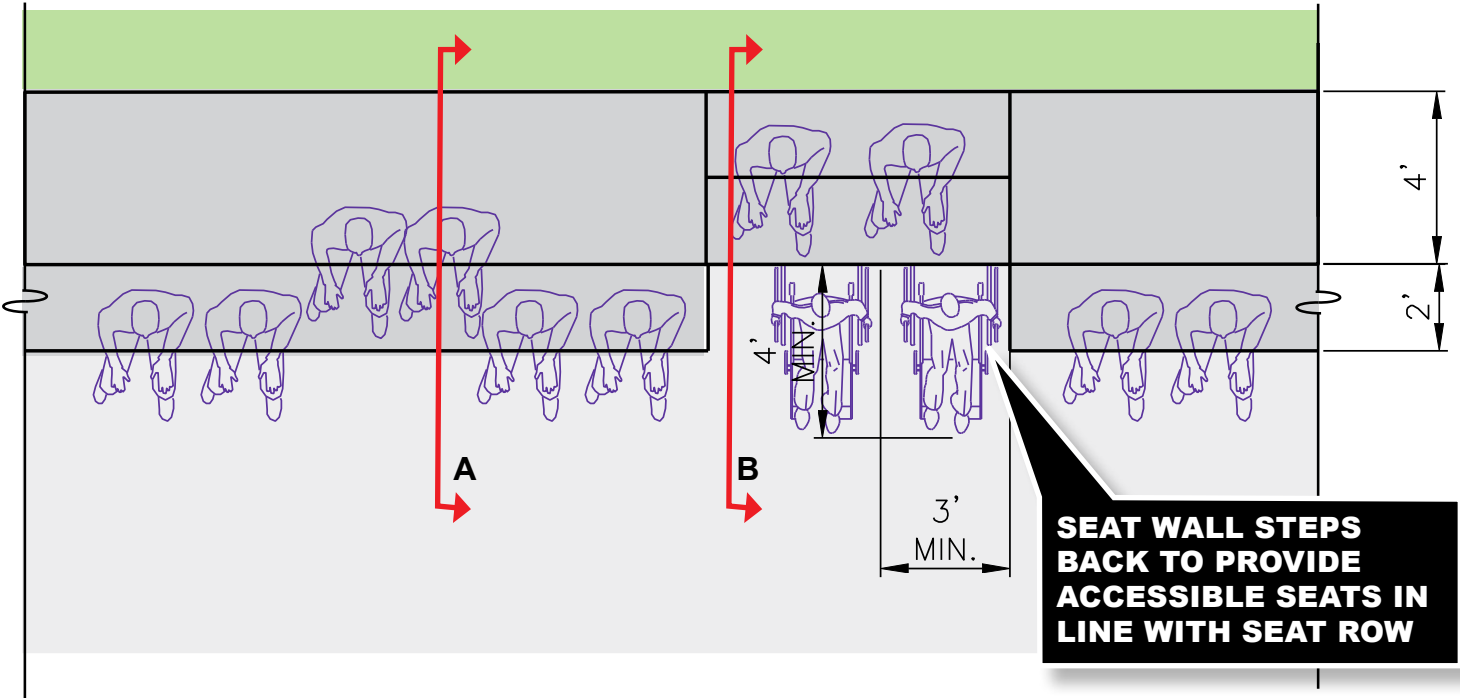
# SEATING AND ACCESSIBILITY

## BACKED SEATING

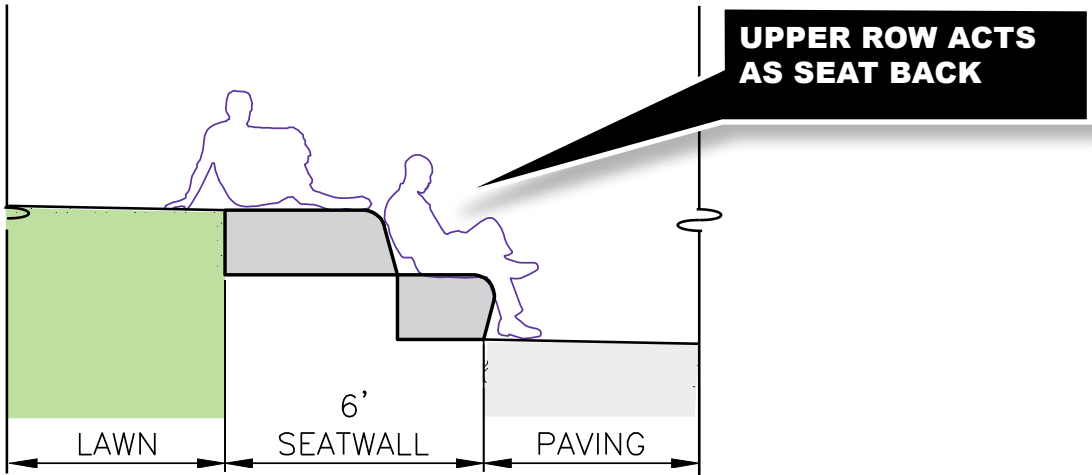
VIEW



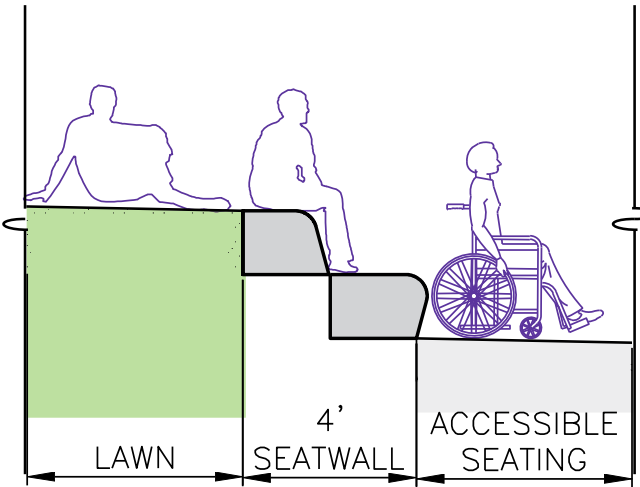
PLAN



SECTION A



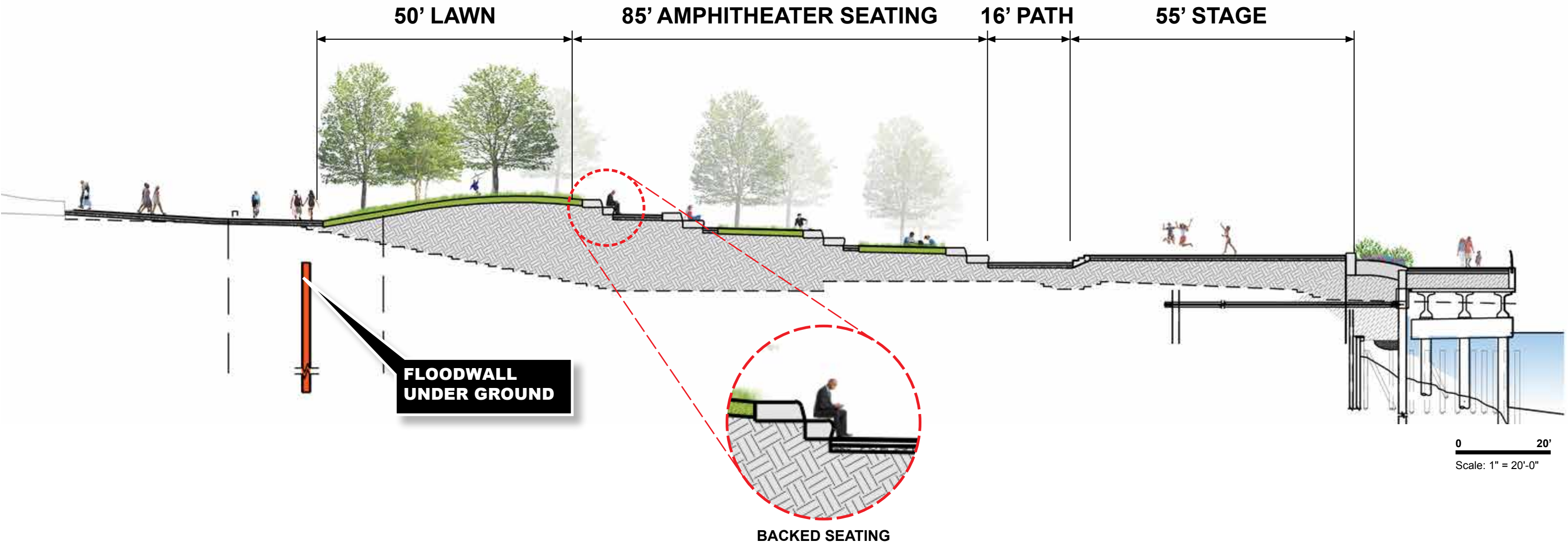
SECTION B





# SITE DESIGN UPDATES

PROPOSED SECTION

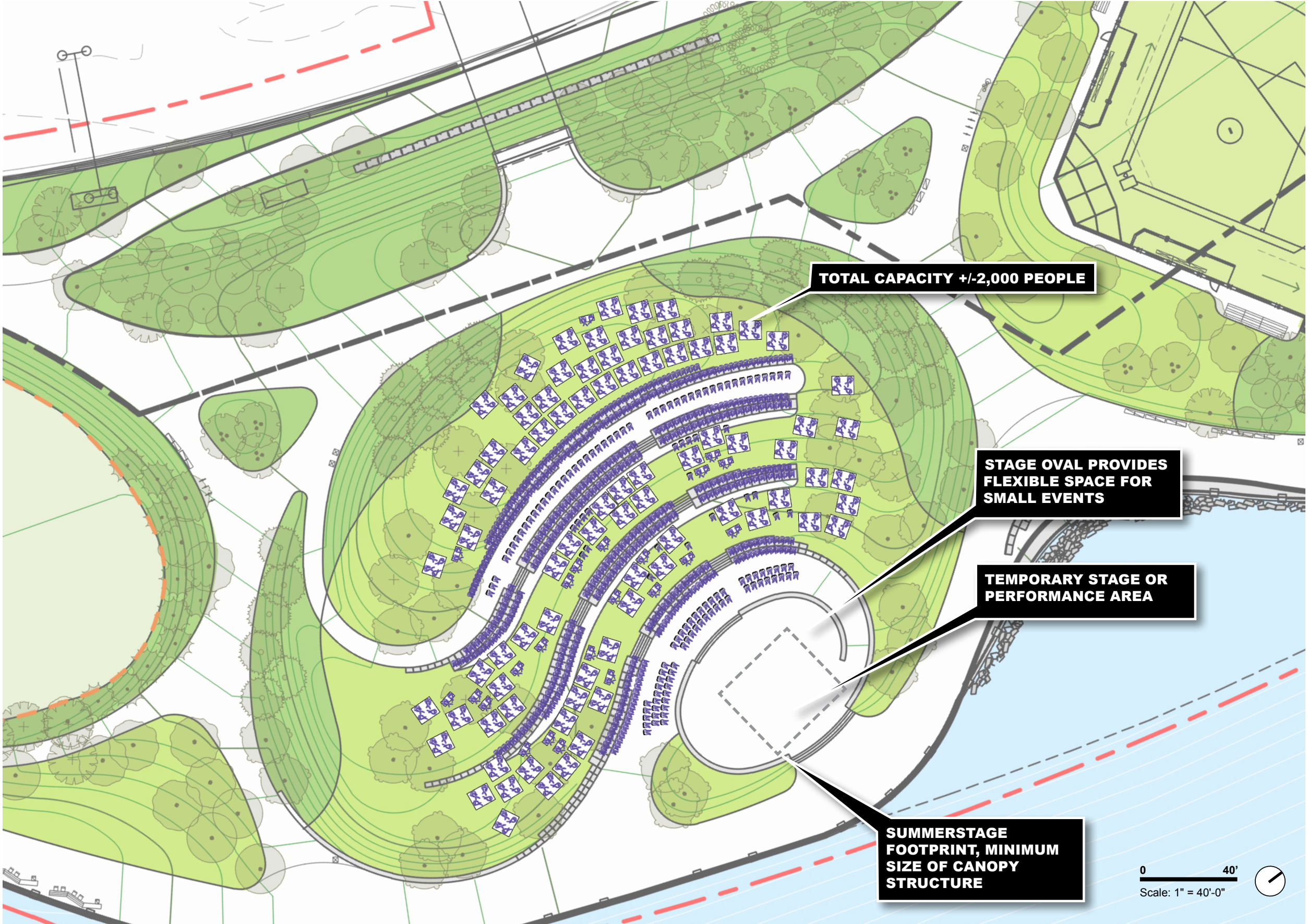




# CAPACITY

## SUMMERSTAGE CONCERT, LARGE EVENTS

NOTE:  
TOTAL SIZE: +/-40,000 SF  
TOTAL CAPACITY: +/-2,000 PEOPLE  
LAWN CAPACITY: 1,070 PEOPLE  
FIXED SEATING CAPACITY: 750 PEOPLE  
HARDSCAPE CAPACITY = 180 PEOPLE





# POWER

- 34" wide x 10" tall electrical cabinet mounted in amphitheater stage wall
- Accessible by permitted events, locked at other times

## PRECEDENT IMAGES





# STRUCTURE

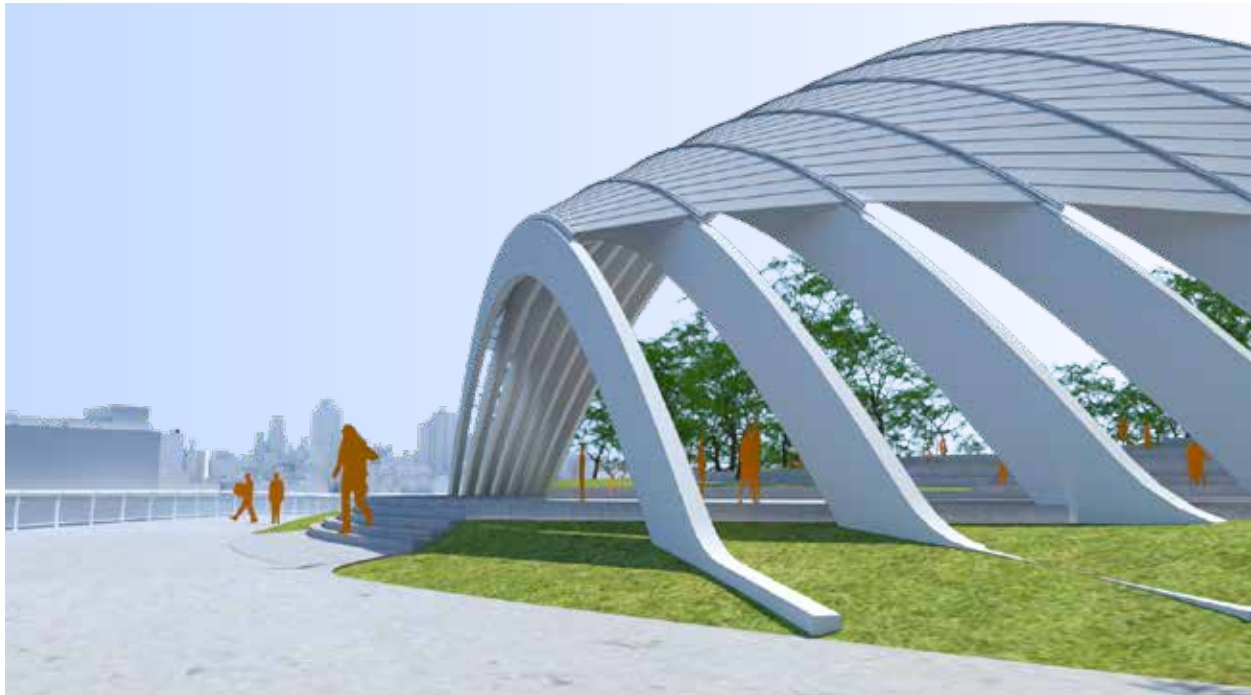
DESIGN IN PROGRESS



VIEW FROM CORLEARS HOOK BRIDGE



VIEW FROM EMBAYMENT



VIEW FROM ESPLANADE

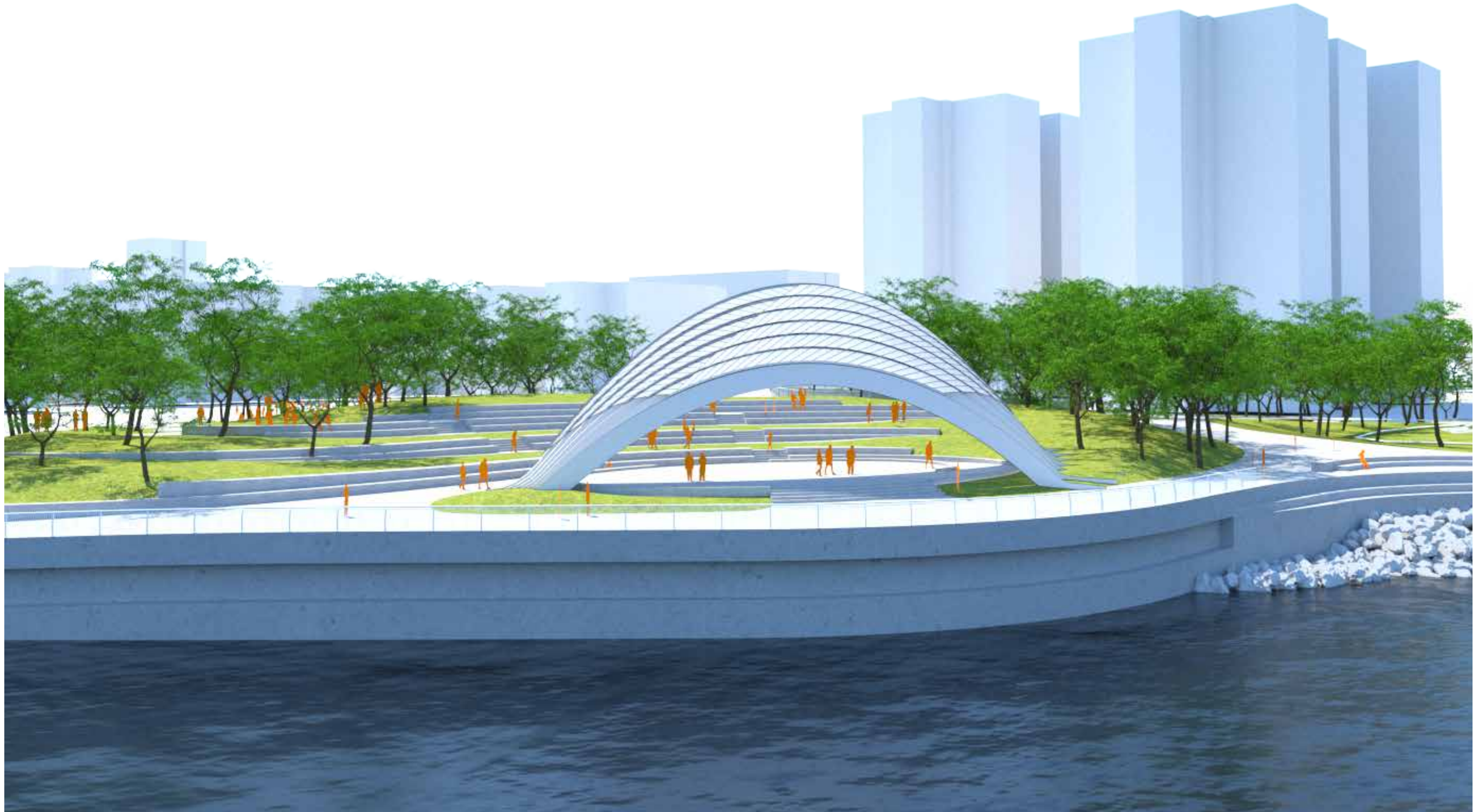


VIEW FROM OVERFLOW SEATING




# STRUCTURE

DESIGN IN PROGRESS



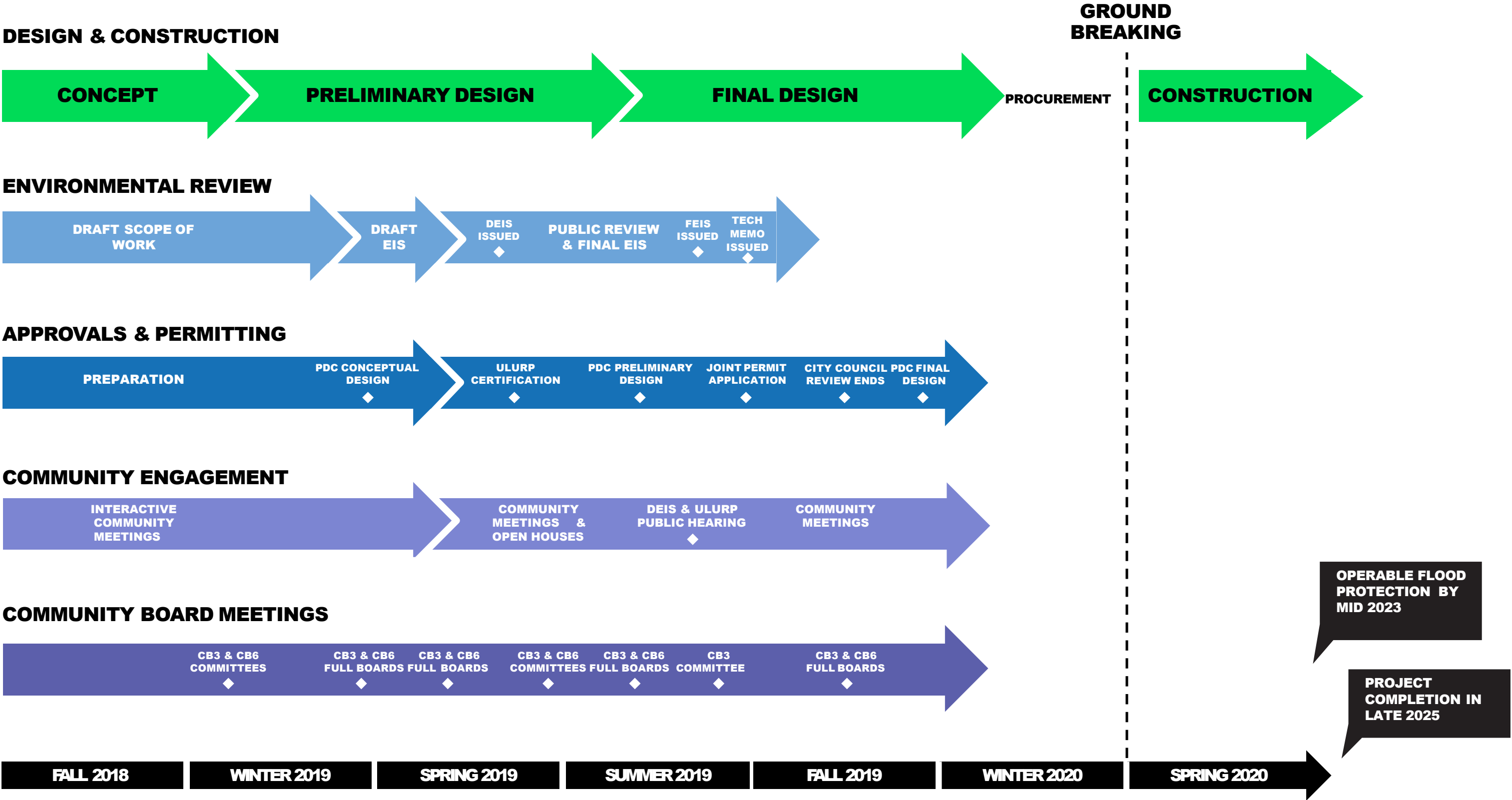


An aerial photograph of a city, likely New York City, showing a dense urban area with a large bridge crossing a body of water. The bridge has a suspension design. Along the waterfront, there are several green spaces, including what appear to be baseball fields and tennis courts. The image is overlaid with a semi-transparent teal filter. The text "PROJECT SCHEDULE AND CONSTRUCTION PHASING" is centered in the middle of the image in a bold, white, sans-serif font.

# **PROJECT SCHEDULE AND CONSTRUCTION PHASING**



# PROJECT SCHEDULE OVERVIEW





# CONSTRUCTABILITY CONSIDERATIONS

**IN PROGRESS - DRAFT FOR DISCUSSION ONLY**

## East River Park Construction Phasing Drivers:

- Location of underground sewer infrastructure
- Fill settling time required
- Pedestrian and construction vehicle access
- Constructing temporary pathways, drainage, etc.

## Key Goals for Phasing:

- Complete flood protection structures by mid-2023
- Maximize public access to open space during construction





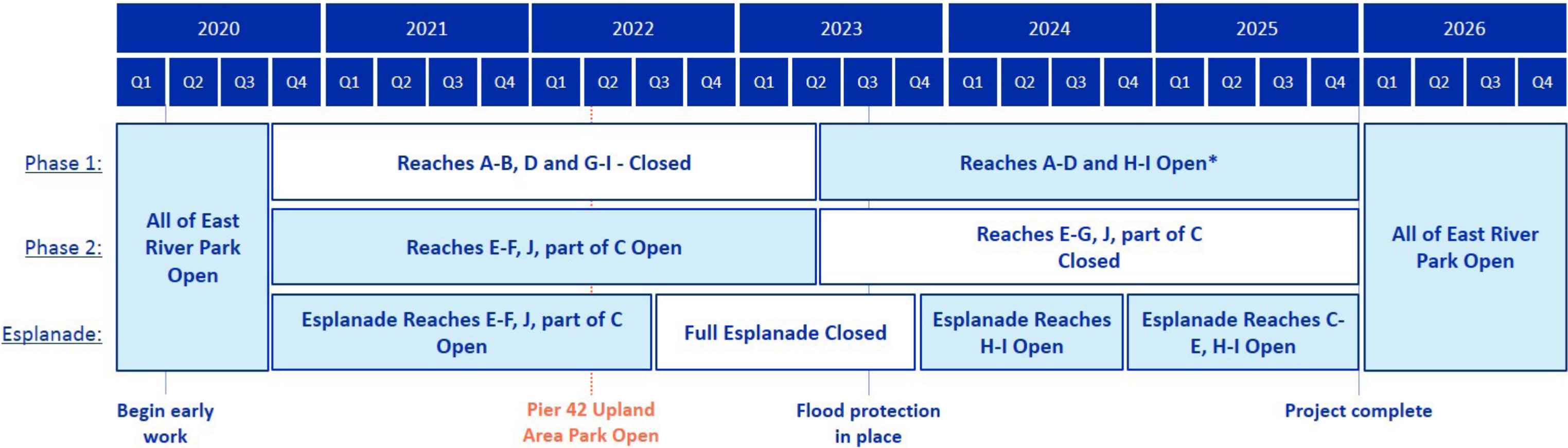
# UPDATED PHASING

NO FULL EAST RIVER PARK CLOSURE

IN PROGRESS - DRAFT FOR DISCUSSION ONLY

## Summary

- East River Park stays open for summer 2020, with some early construction packages beginning in March 2020
- 3/5 of East River Park will close in Fall 2020, while 2/5 remains open through summer 2022
- East River Park is never closed in its entirety (compared to 3.5 full years in baseline option)
- Esplanade is only fully closed for 1 year (compared to 3.5 full years in baseline option)
- 1/2 of East River Park will reopen in summer 2023
- Flood protection is completed in mid-2023, project completed at end of 2025

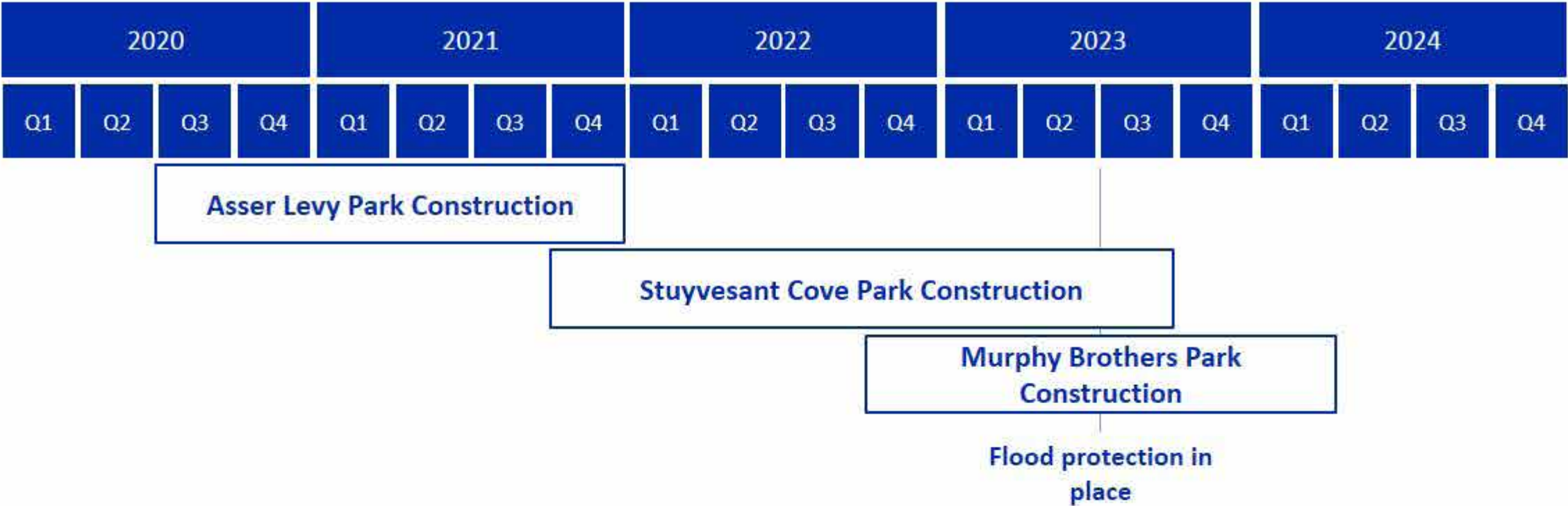


**Note:** Phasing analysis underway for other project components but are expected to fit within East River Park durations in all cases.  
\*Construction in the Houston Street Area (Reach G) continues until end of 2025. Within reopened reaches, esplanade to be closed to facilitate access and staging, and some landscaping components will remain to be completed in passive recreational areas.



# CONSTRUCTION PHASING FOR PROJECT AREA 2

IN PROGRESS - DRAFT FOR DISCUSSION ONLY

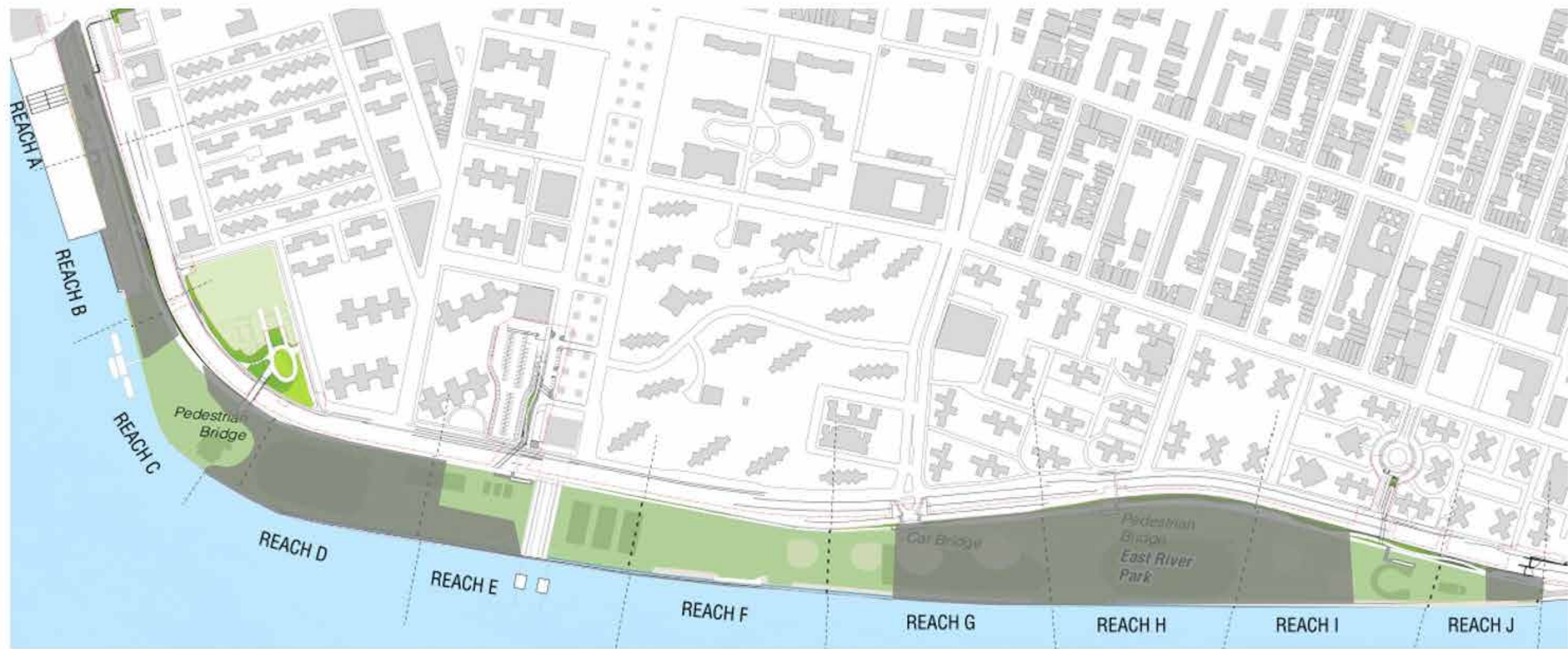




# CONSTRUCTION PHASING FOR EAST RIVER PARK

SUMMER 2021

IN PROGRESS - DRAFT FOR DISCUSSION ONLY



Closed  
Portions

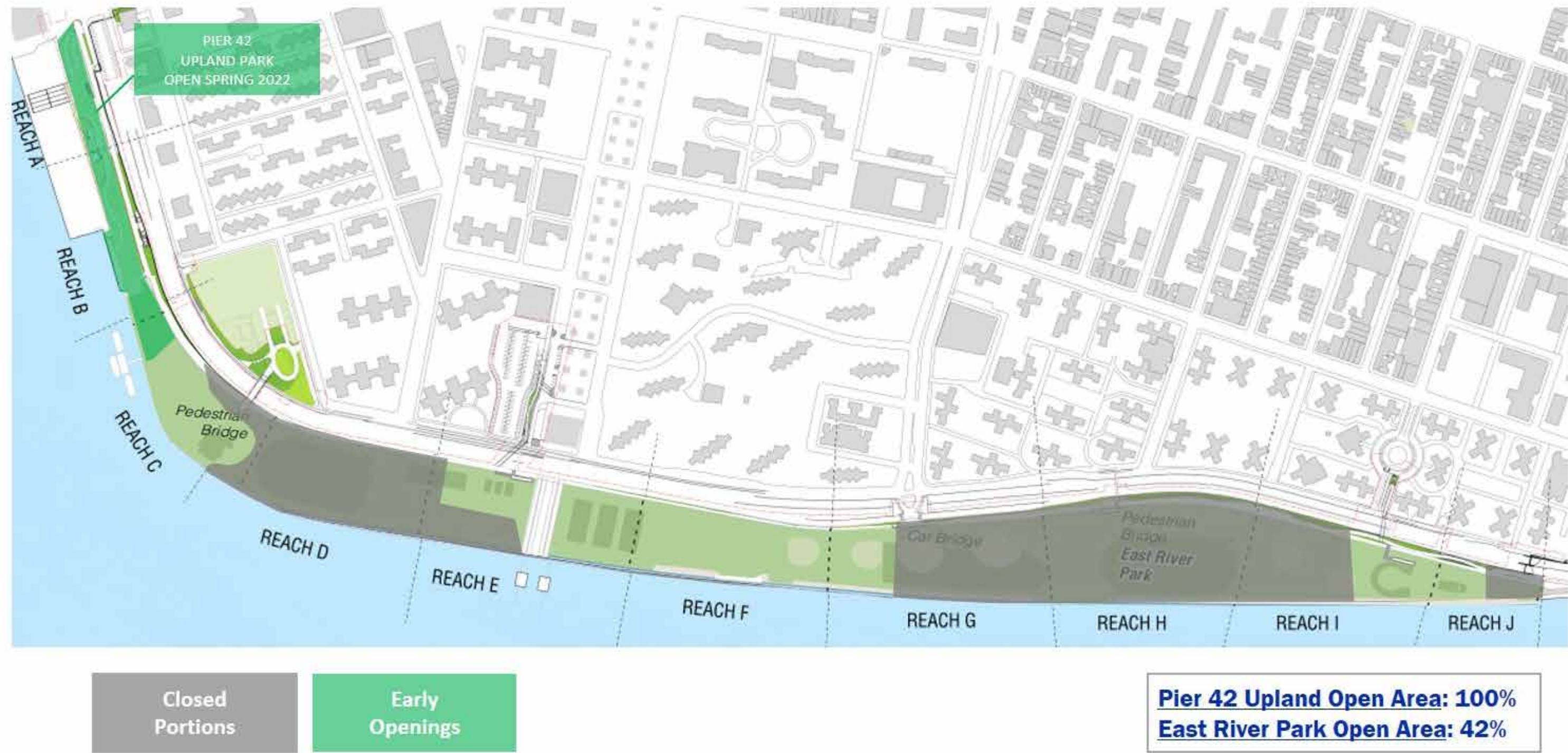
East River Park Open Area: 42%



# CONSTRUCTION PHASING FOR EAST RIVER PARK

SUMMER 2022

IN PROGRESS - DRAFT FOR DISCUSSION ONLY

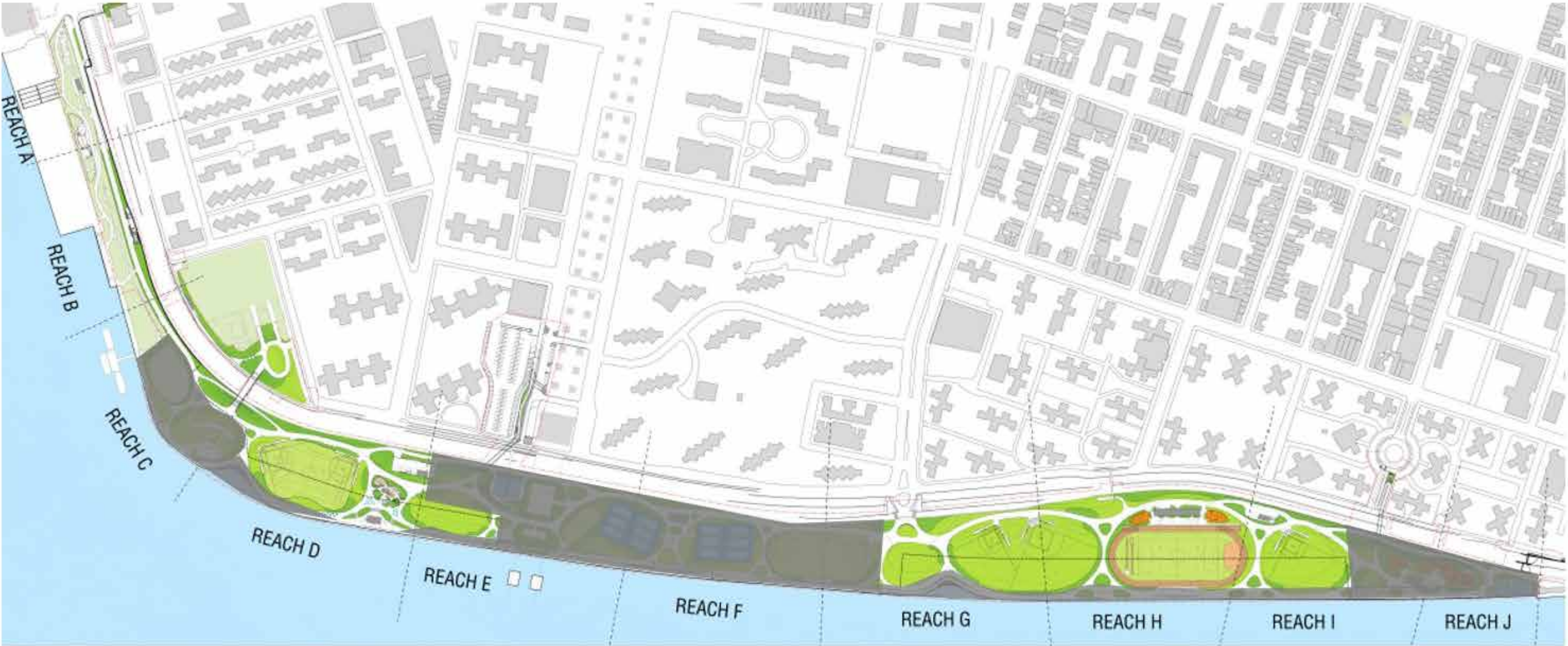




# CONSTRUCTION PHASING FOR EAST RIVER PARK

SUMMER 2023

IN PROGRESS - DRAFT FOR DISCUSSION ONLY



Closed  
Portions

Pier 42 Upland Open Area: 100%  
East River Park Open Area: 53%



# CONSTRUCTION PHASING FOR EAST RIVER PARK

SUMMER 2024

IN PROGRESS - DRAFT FOR DISCUSSION ONLY



Closed  
Portions

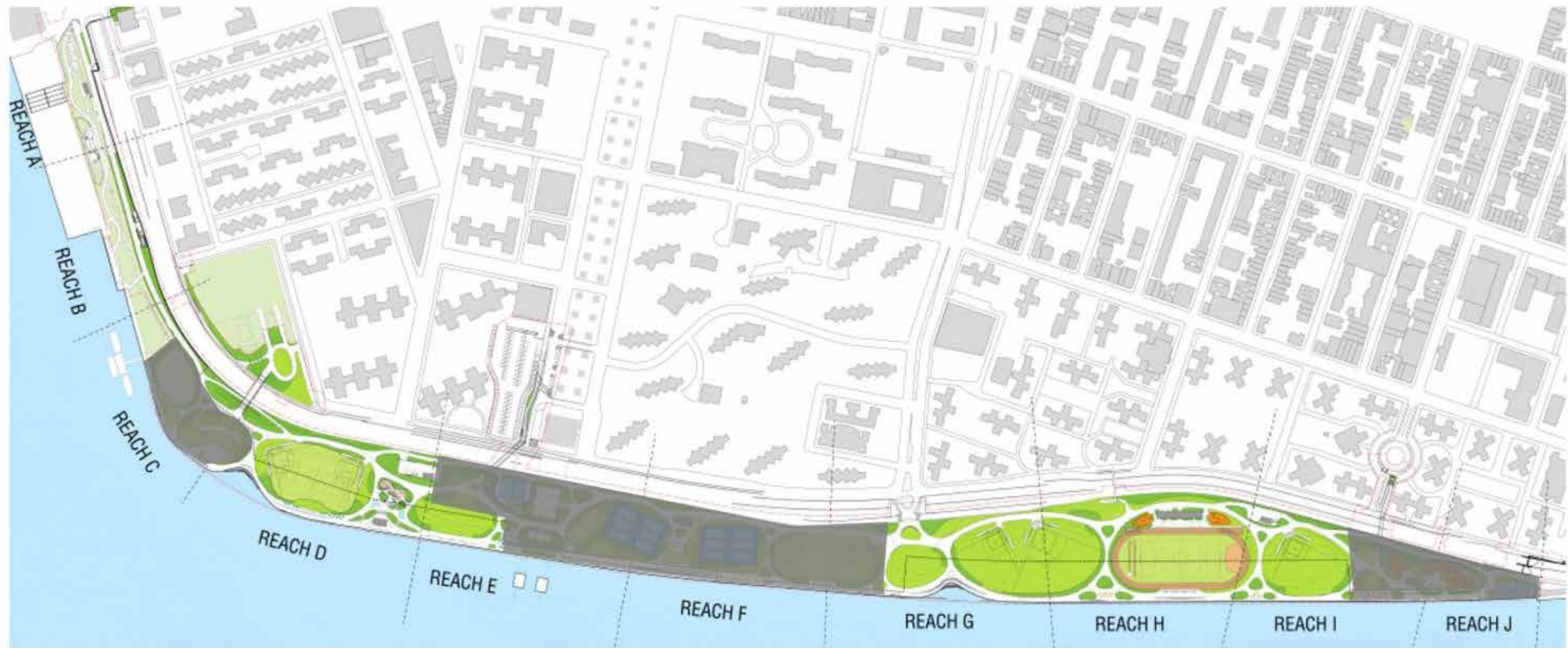
Pier 42 Upland Open Area: 100%  
East River Park Open Area: 55%



# CONSTRUCTION PHASING FOR EAST RIVER PARK

SUMMER 2025

IN PROGRESS - DRAFT FOR DISCUSSION ONLY



Closed  
Portions

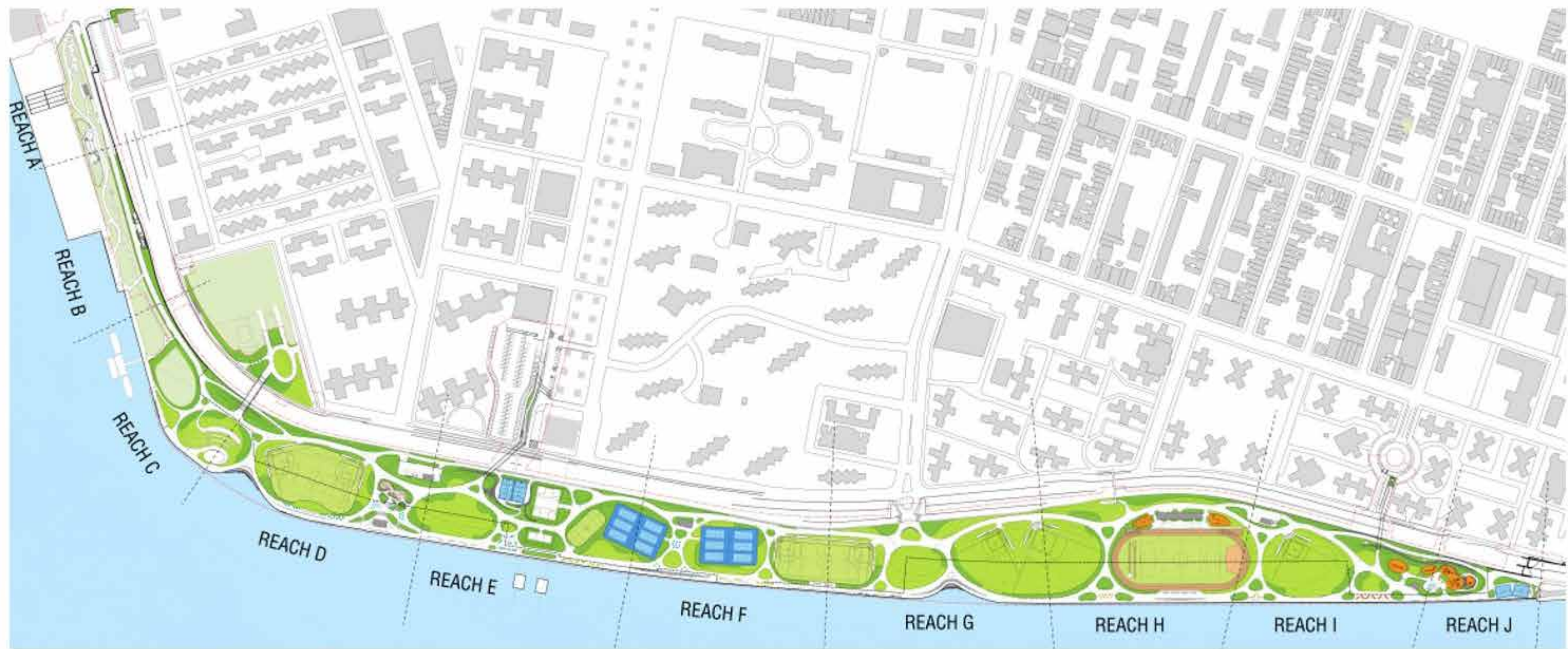
Pier 42 Upland Open Area: 100%  
East River Park Open Area: 56%



# CONSTRUCTION PHASING FOR EAST RIVER PARK

END OF 2025

IN PROGRESS - DRAFT FOR DISCUSSION ONLY



**Pier 42 Upland Open Area: 100%**  
**East River Park Open Area: 100%**



# Website

NYC

East Side Coastal Resiliency

311

Search all NYC.gov websites

NYC

The East Side Coastal Resiliency Project

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### The East Side Coastal Resiliency Project

The East Side Coastal Resiliency (ESCR) Project is a coastal protection initiative, jointly funded by the City of New York and the federal government, aimed at reducing flood risk due to coastal storms and sea level rise on Manhattan's East Side from East 25th Street to Montgomery Street.

The ESCR Project is a priority of the City of New York as outlined in the 2015 *One New York: The Plan for a Strong and Just City* and by the innovative Rebuild by Design competition sponsored by the U.S. Department of Housing and Urban

### Partners

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