

# East Side Coastal Resiliency

Community Board 6  
Landuse and Waterfront Committee Meeting

January 28, 2019

433 First Avenue (NYU School of Dentistry)



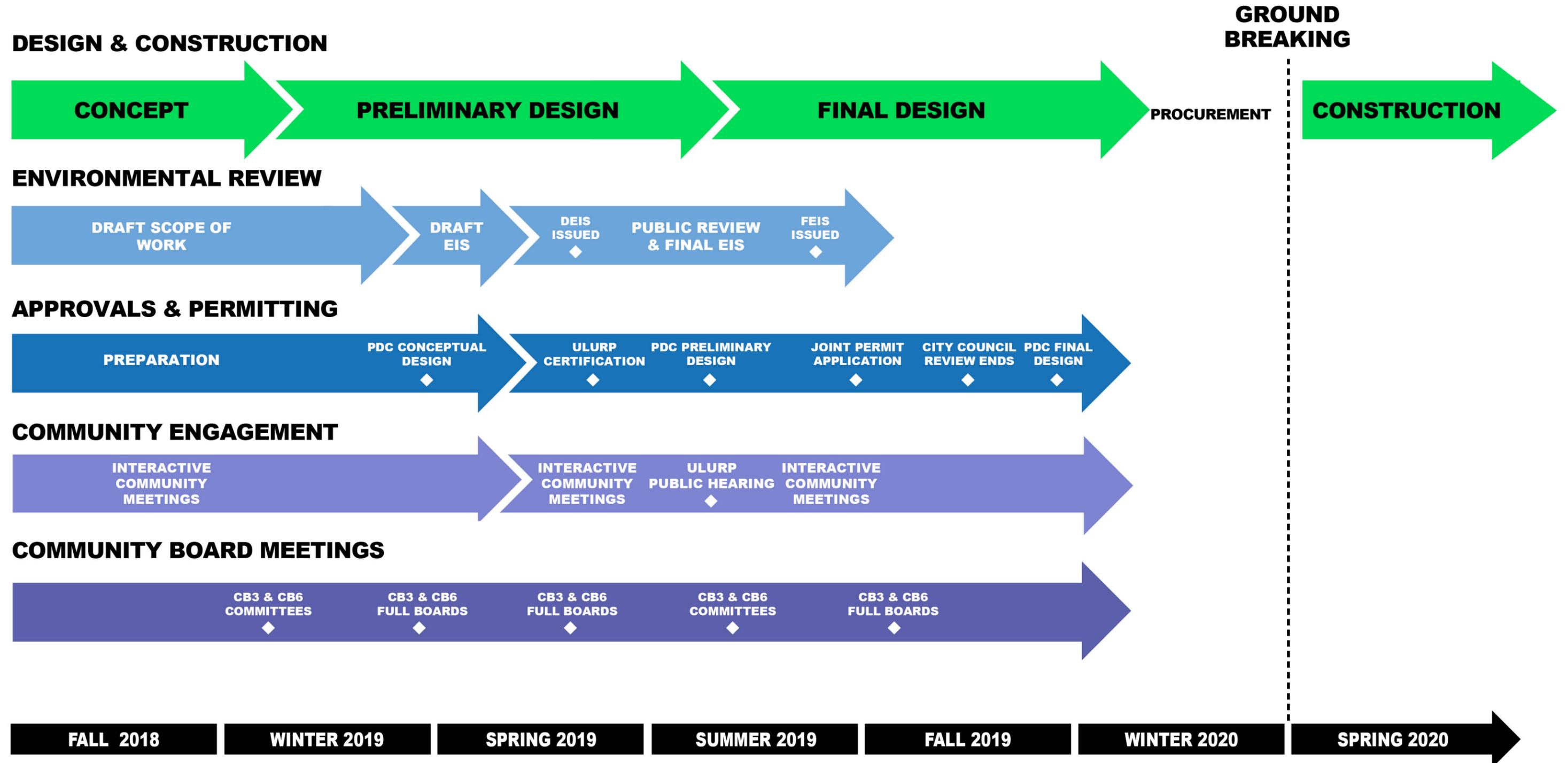


## COMMUNITY MEETINGS 12/10 AND 12/11



# IMPROVED SCHEDULE

OPERABLE SYSTEMS FOR 2023 HURRICANE SEASON



# **PRESENTATION AGENDA**

**Schedule and Overview**

**Project Area 2**

**Murphy Brothers**

**Stuvesant Cove**

**Asser Levy Playground**

**Flyover Bridge**

**Drainage Infrastructure**

**PA 1 / East River Park Update**

**Amphitheater Planning**

**Planting & Biodiversity**

**Community Engagement Schedule**



# PROJECT AREA 2 UPDATE



**PROJECT AREA 2 PARKS**  
PRELIMINARY DESIGN

An aerial architectural rendering of a city block. The scene is dominated by a large, multi-lane highway with several cars driving. To the left of the highway, there is a green park area. This park contains a basketball court with a yellow court surface and a hoop, a soccer field with white markings, and a central playground area with various play structures and trees. The surrounding city buildings are rendered in a light, semi-transparent style, showing their footprints and some structural details. The entire image has a teal/cyan color overlay.

# MURPHY BROTHERS PLAYGROUND



**MURPHY BROTHERS PLAYGROUND**  
PRELIMINARY DESIGN

An architectural rendering of a waterfront development project. The scene is viewed from an elevated perspective, showing a multi-lane highway on the left with several cars. To the right of the highway is a landscaped promenade with trees, walkways, and people. Further right is a body of water with two boats, one of which is a larger ferry-like vessel. In the background, there are modern, multi-story buildings. The entire image has a teal color overlay.

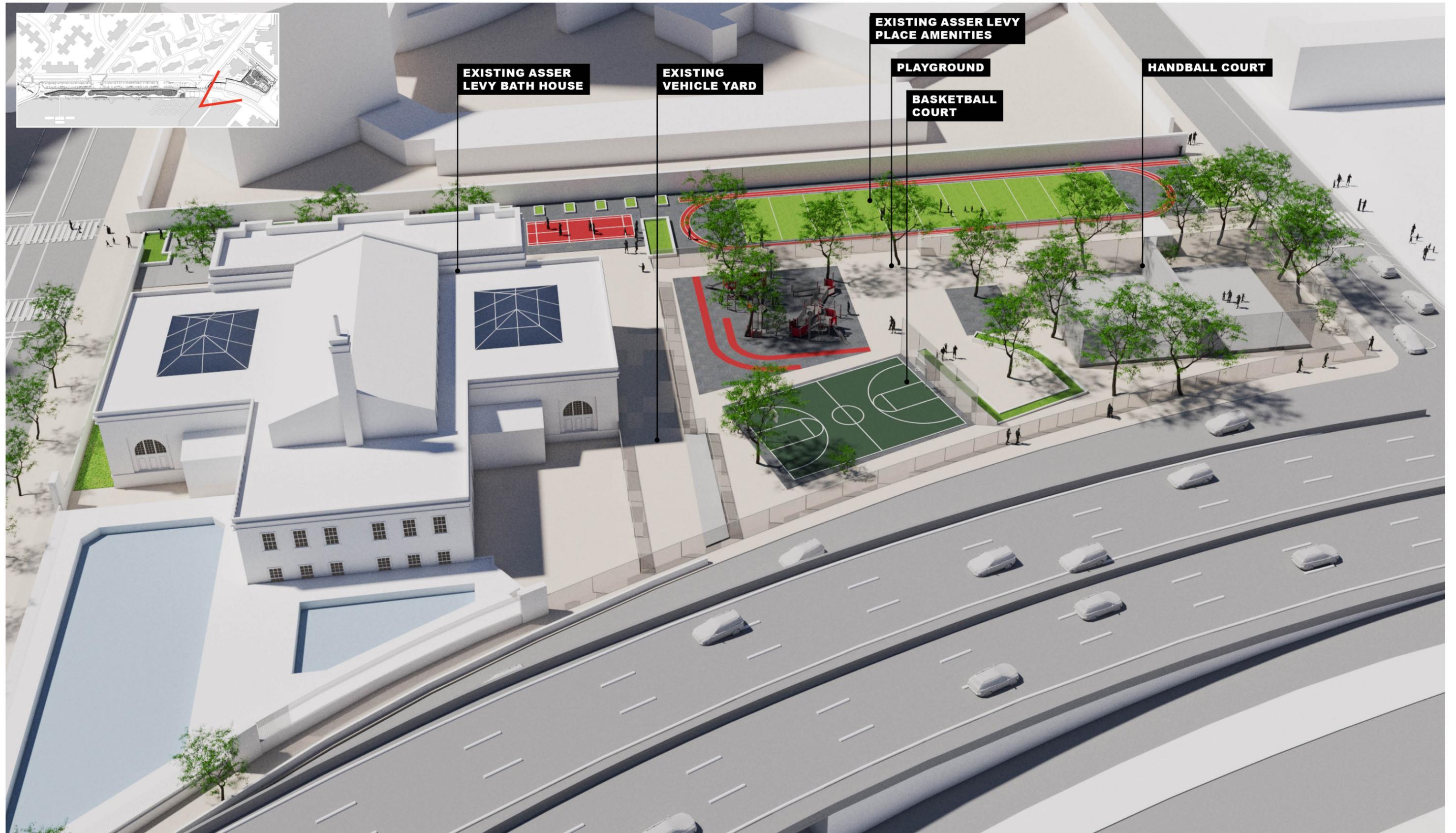
# STUYVESANT COVE



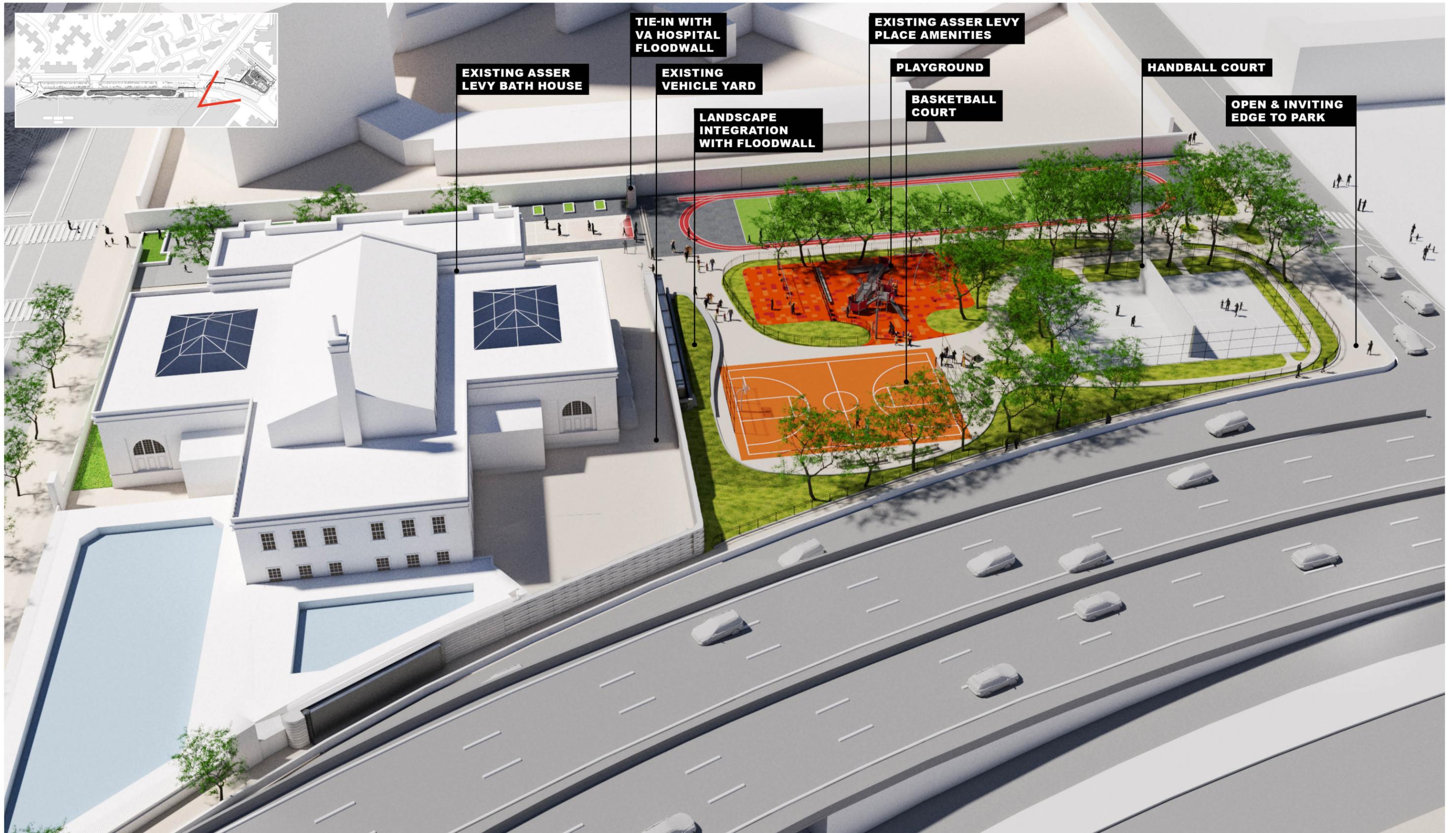
**STUYVESANT COVE PARK**  
PRELIMINARY DESIGN

An architectural rendering of the Asser Levy Playground, showing a multi-use facility with a basketball court, a playground, and a tennis court, situated next to a large building and a multi-lane highway. The scene is overlaid with a semi-transparent teal color.

# ASSER LEVY PLAYGROUND



**ASSER LEVY PLAYGROUND**  
EXISTING CONDITIONS



**ASSER LEVY PLAYGROUND**  
PRELIMINARY DESIGN

# RESILIENT PLAYGROUND FEATURES

## SITE STRATEGY



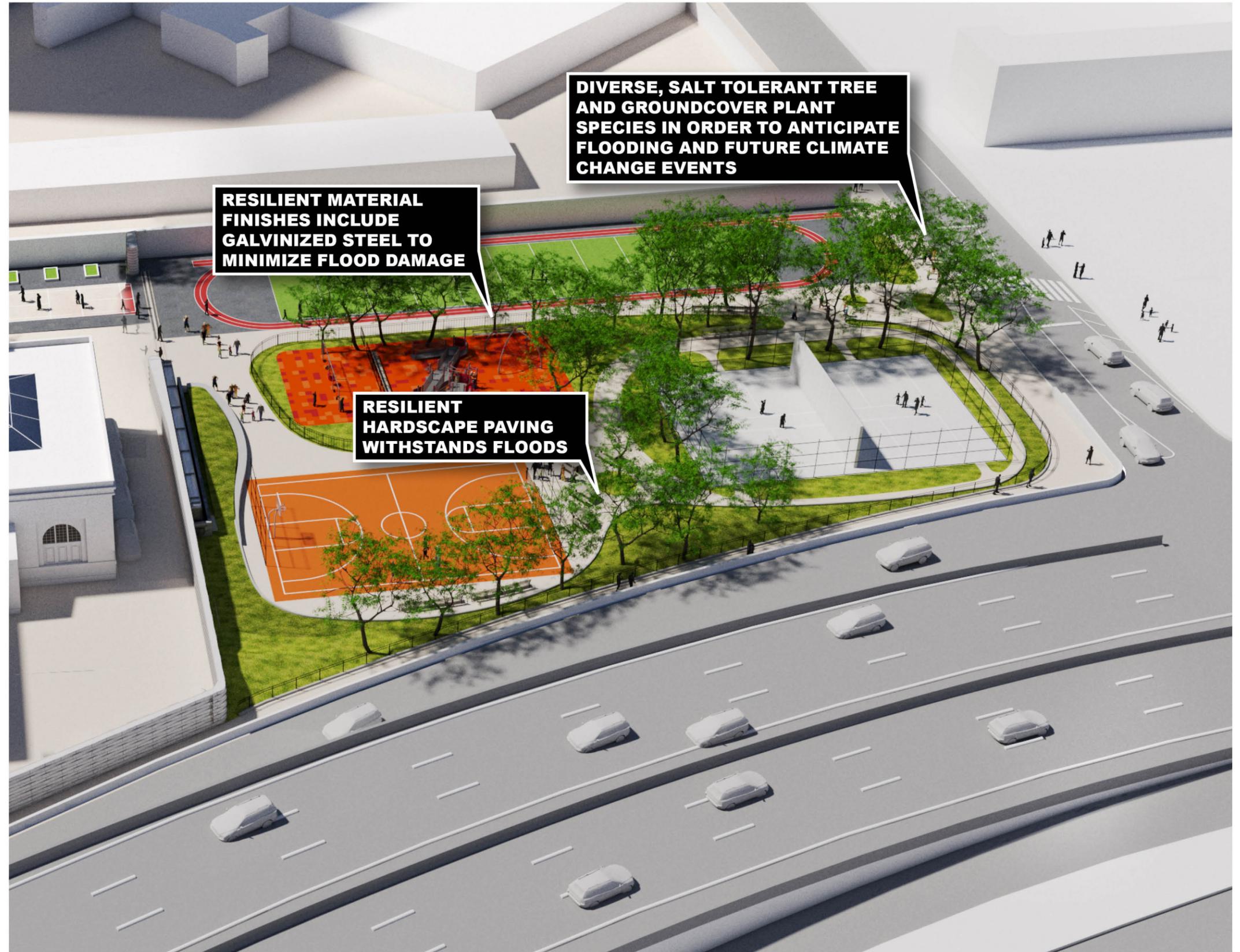
**MATERIAL FINISHES**



**PLANTING**



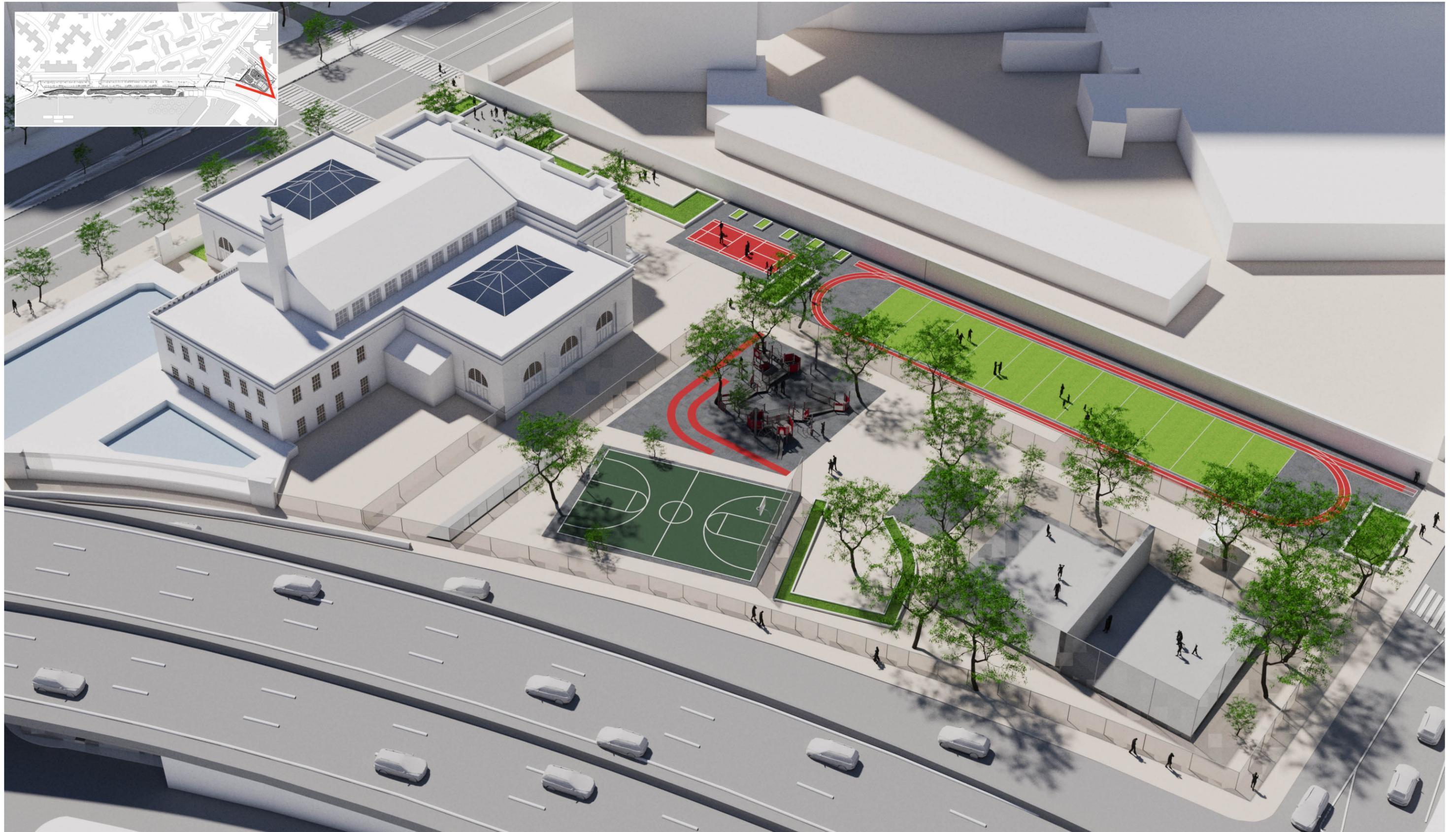
**HARDSCAPE**



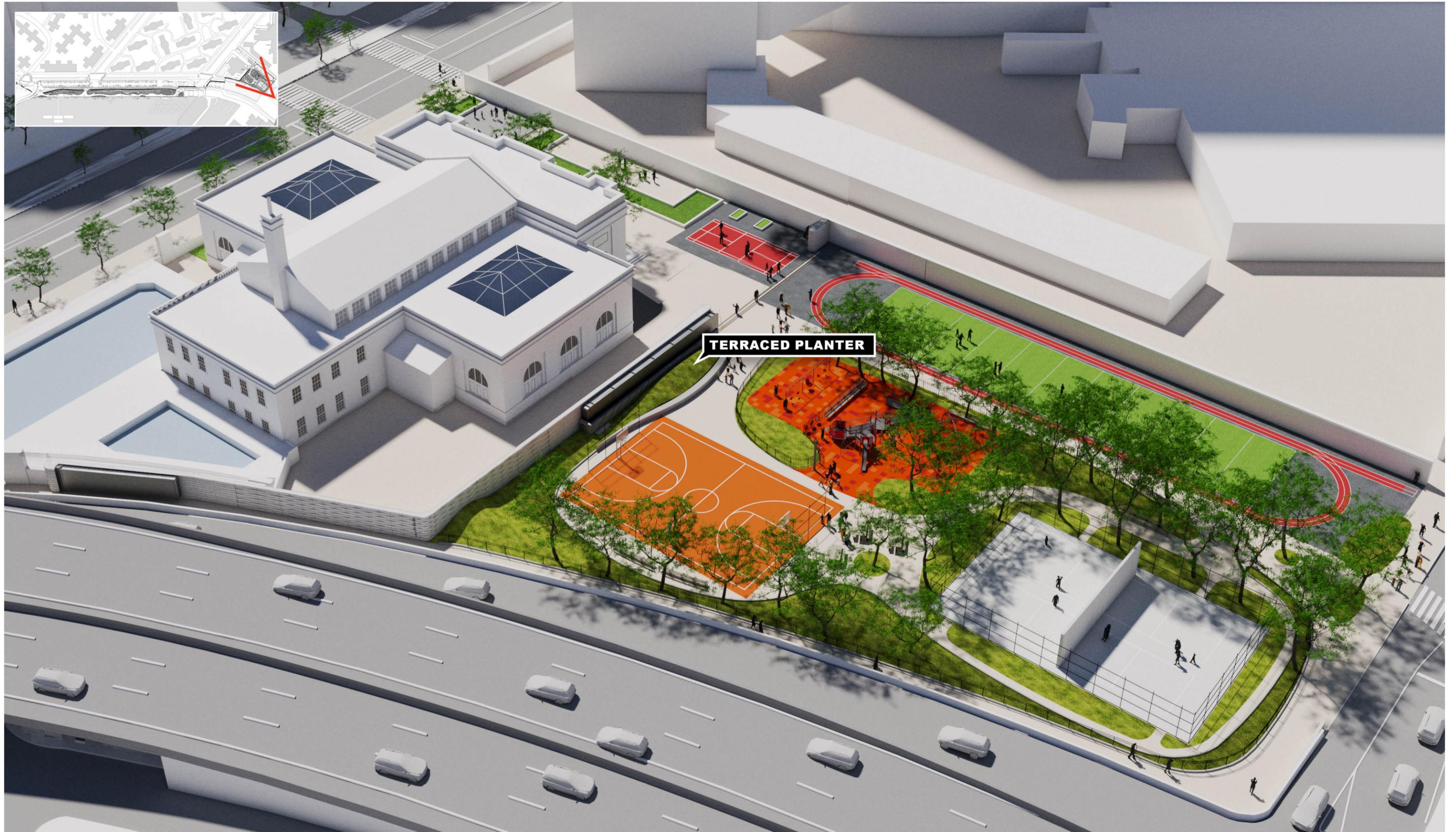
**RESILIENT MATERIAL FINISHES INCLUDE GALVINIZED STEEL TO MINIMIZE FLOOD DAMAGE**

**RESILIENT HARDSCAPE PAVING WITHSTANDS FLOODS**

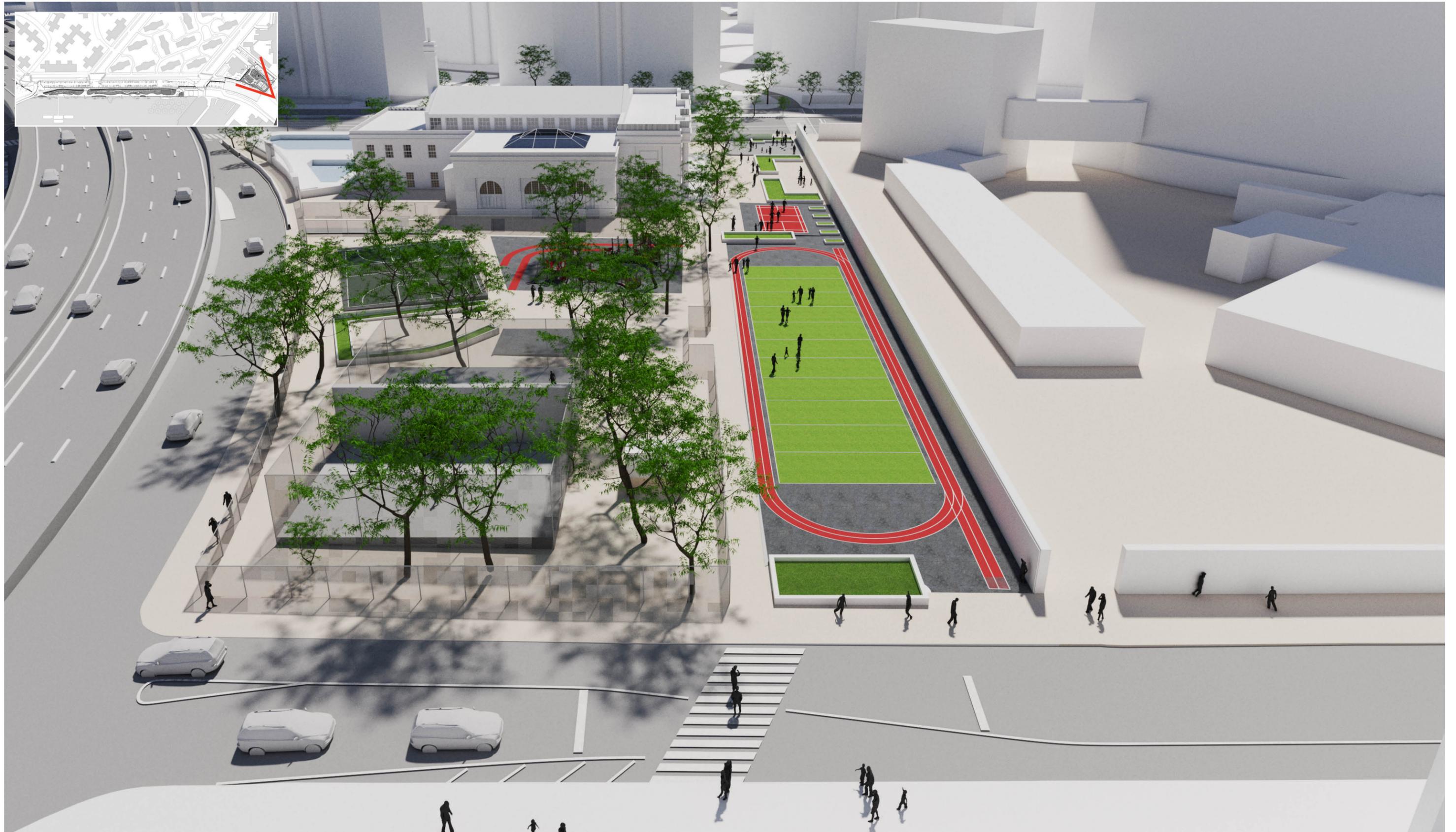
**DIVERSE, SALT TOLERANT TREE AND GROUNDCOVER PLANT SPECIES IN ORDER TO ANTICIPATE FLOODING AND FUTURE CLIMATE CHANGE EVENTS**



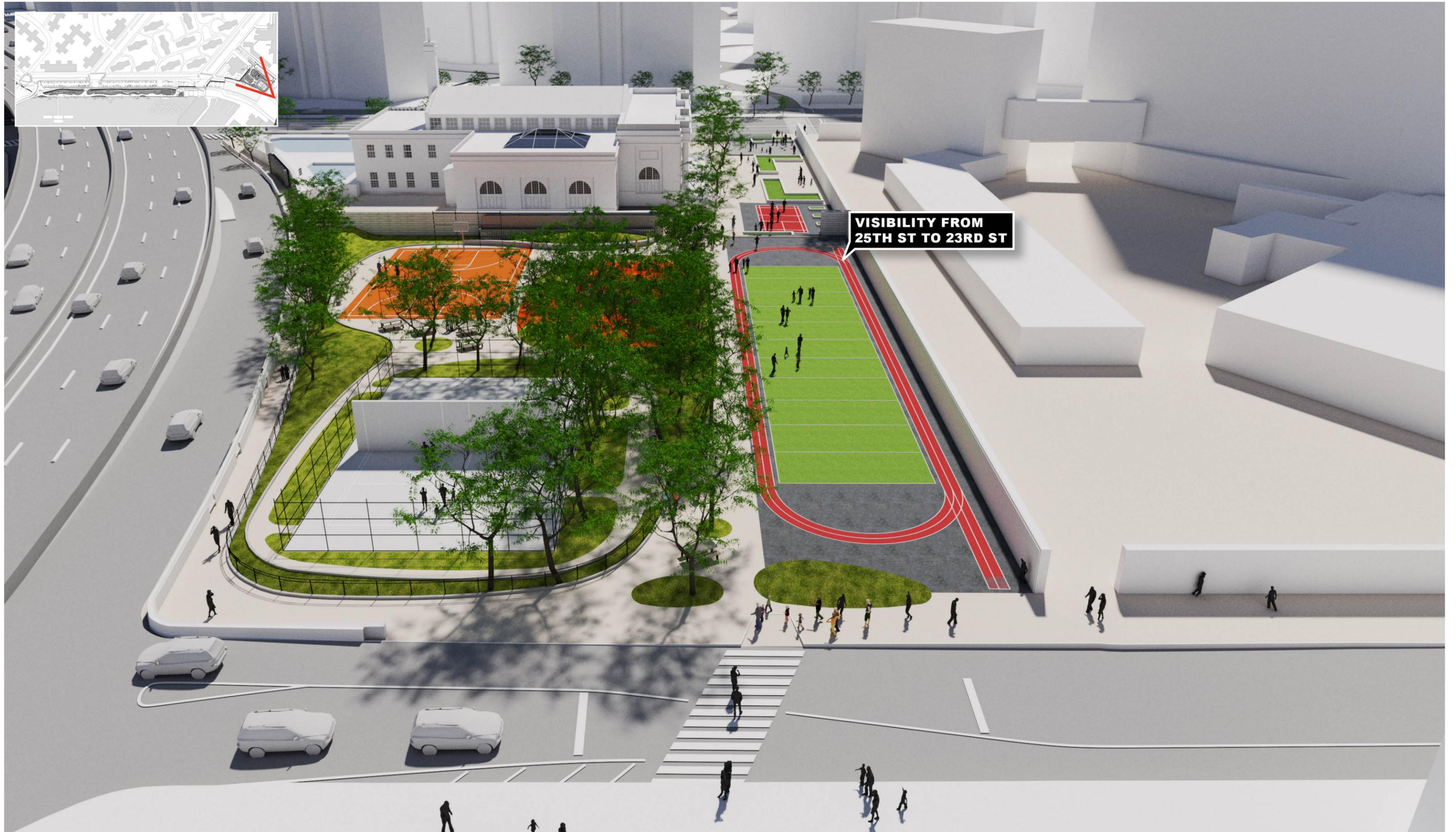
**ASSER LEVY PLAYGROUND**  
EXISTING CONDITIONS



**ASSER LEVY PLAYGROUND**  
PRELIMINARY DESIGN



**ASSER LEVY PLAYGROUND**  
EXISTING CONDITIONS



**ASSER LEVY PLAYGROUND**  
PRELIMINARY DESIGN



**ASSER LEVY PLAYGROUND**  
EXISTING CONDITIONS



**ASSER LEVY PLAYGROUND**  
PRELIMINARY DESIGN



**ASSER LEVY PLAYGROUND**  
EXISTING CONDITIONS



**ASSER LEVY PLAYGROUND**  
PRELIMINARY DESIGN



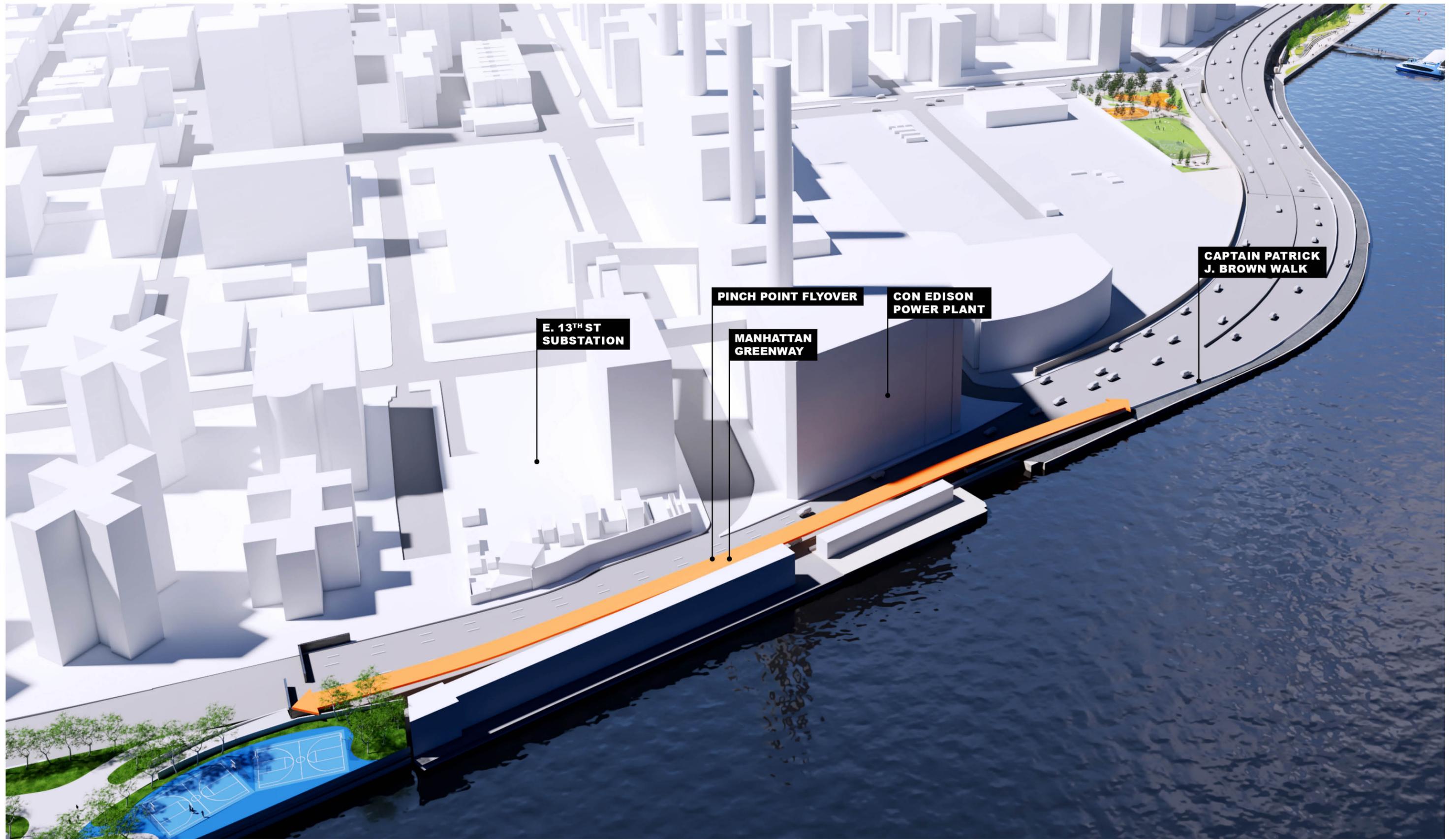
**ASSER LEVY PLAYGROUND**  
EXISTING CONDITIONS



**ASSER LEVY PLAYGROUND**  
PRELIMINARY DESIGN

An aerial architectural rendering of a city, overlaid with a semi-transparent teal color. The scene shows a dense urban grid with various building footprints. A prominent feature is a multi-lane flyover bridge that spans across a wide river. The bridge has a curved approach on the right side. In the foreground, there's a blue-tinted area that looks like a sports court or a park. The overall aesthetic is clean and modern, typical of urban planning presentations.

# FLYOVER BRIDGE



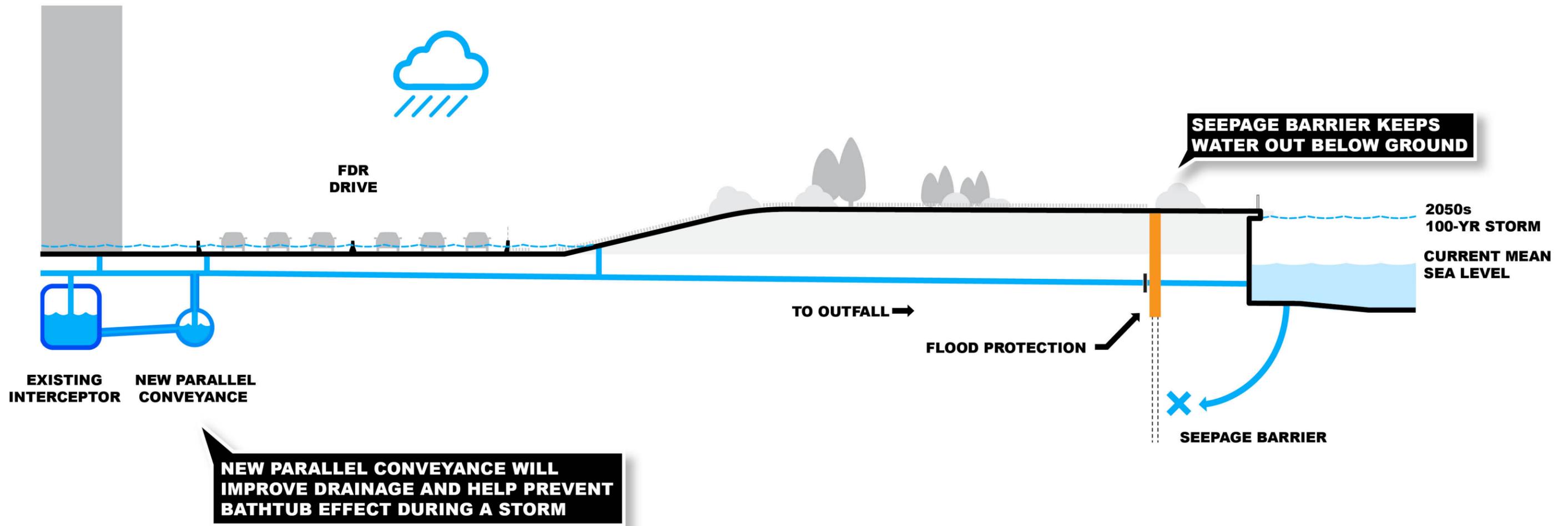
**PINCH POINT FLYOVER BRIDGE**  
CURRENT PLAN

An aerial, isometric-style rendering of a city waterfront. A large suspension bridge spans across a wide river. On the left bank, there are several green parks with winding paths and trees. The city buildings are represented as simple rectangular blocks. The entire scene is overlaid with a semi-transparent teal color.

# **DRAINAGE INFRASTRUCTURE**

# IMPROVED DRAINAGE

SEWER IMPROVEMENTS TO REDUCE UPLAND FLOODING



# IMPROVED DRAINAGE

## INTERCEPTOR GATE & ASSOCIATED GATE BUILDING

**INTERCEPTOR GATE BUILDING IS ABOVE GROUND AND SUPPORTS THE OPERATIONS OF THE CHAMBER BELOW GROUND**

**COMBINED FLOW IN STREET SEWER**

**INTERCEPTOR GATE BUILDING**

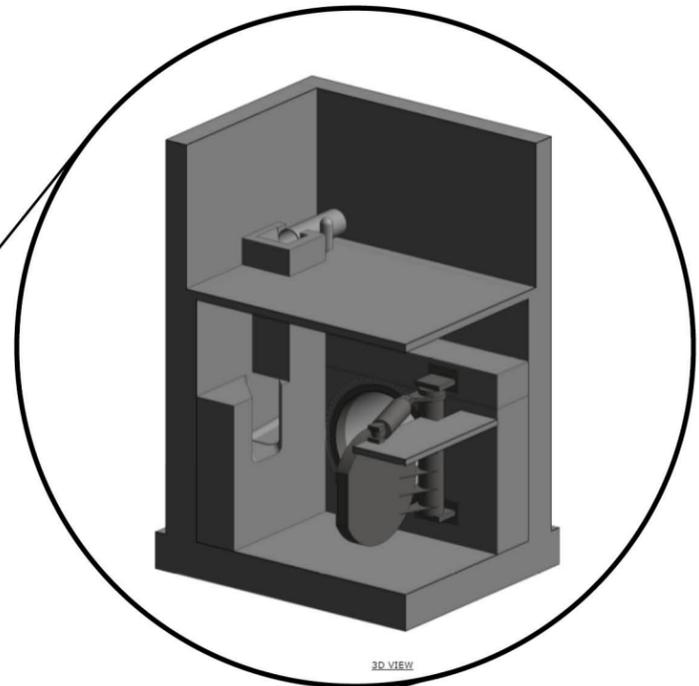
**INTERCEPTOR GATE (20' BELOW GROUND)**

**FLOOD PROTECTION**

**REGULATOR**

**INTERCEPTOR SEWER**

**INTERCEPTOR GATE BLOCKS FLOOD WATER FROM ENTERING THROUGH THE SEWER SYSTEM**

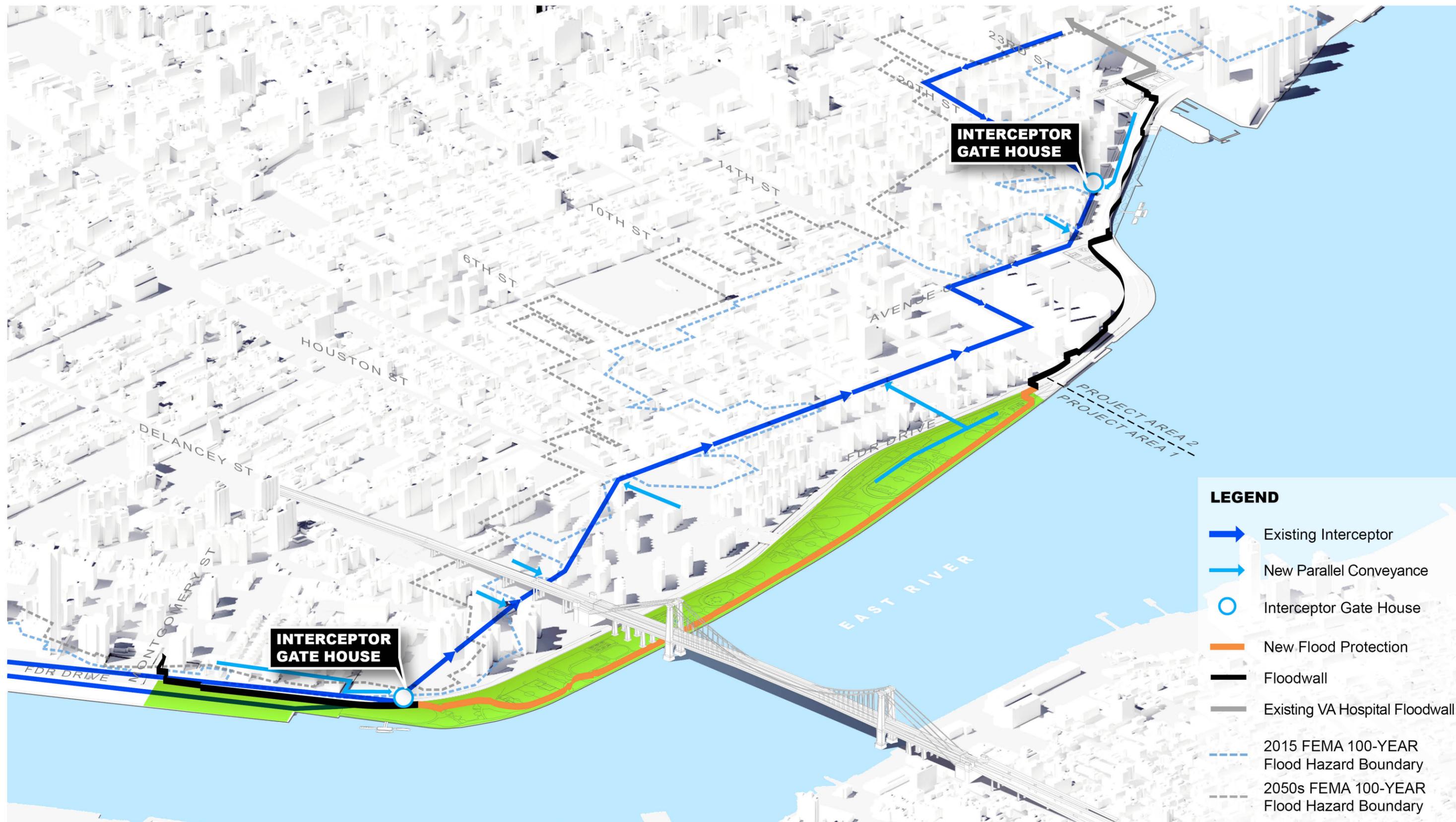


**INTERCEPTOR GATE CHAMBER VISUALIZATION**

**2050s  
100-YR STORM  
CURRENT MEAN  
SEA LEVEL**

# IMPROVED DRAINAGE

## SITE STRATEGY



# IMPROVED DRAINAGE

## INTERCEPTOR GATES AND BUILDING LOCATIONS



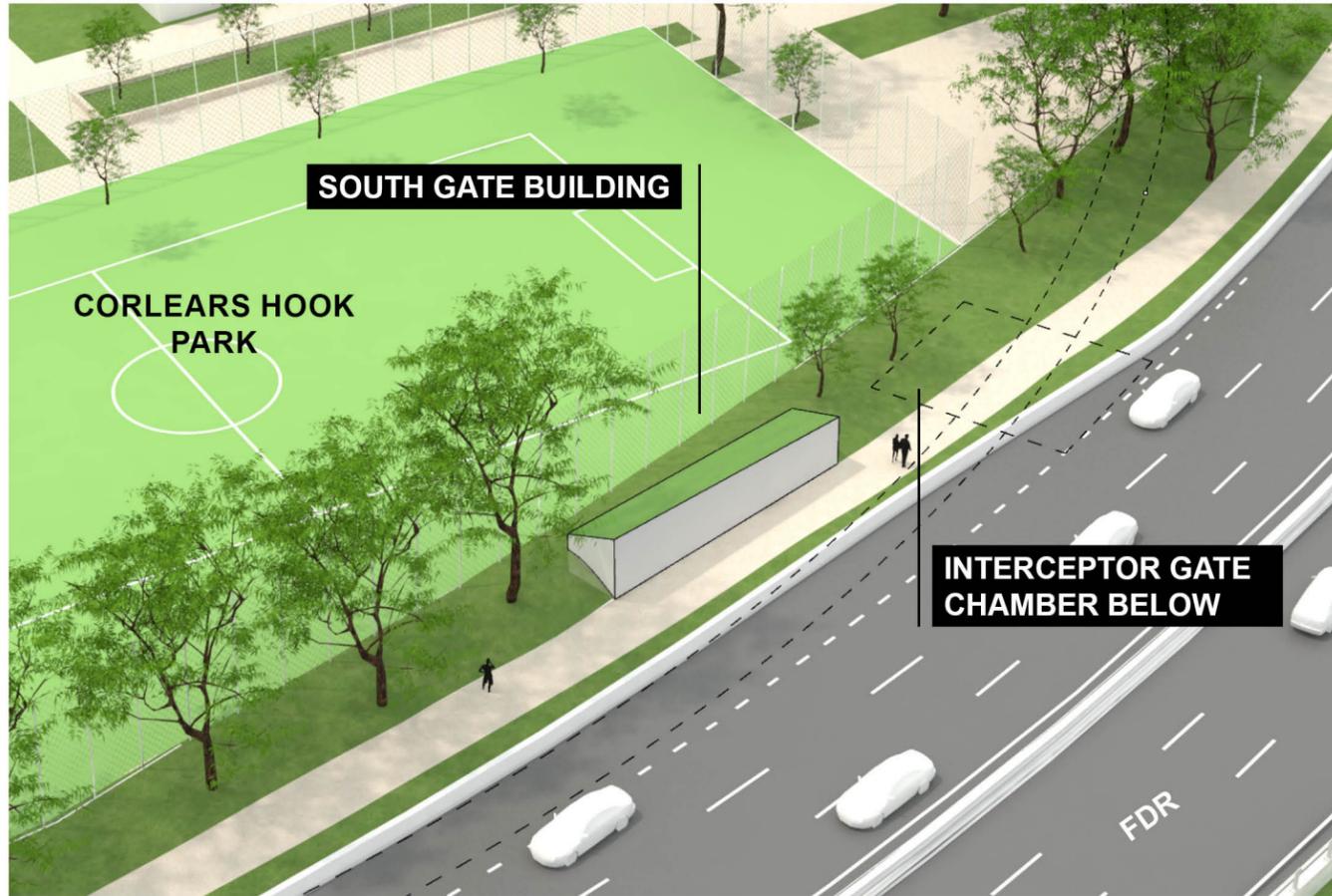
South Gate Building Location  
Between FDR and Corlear's Hook Park



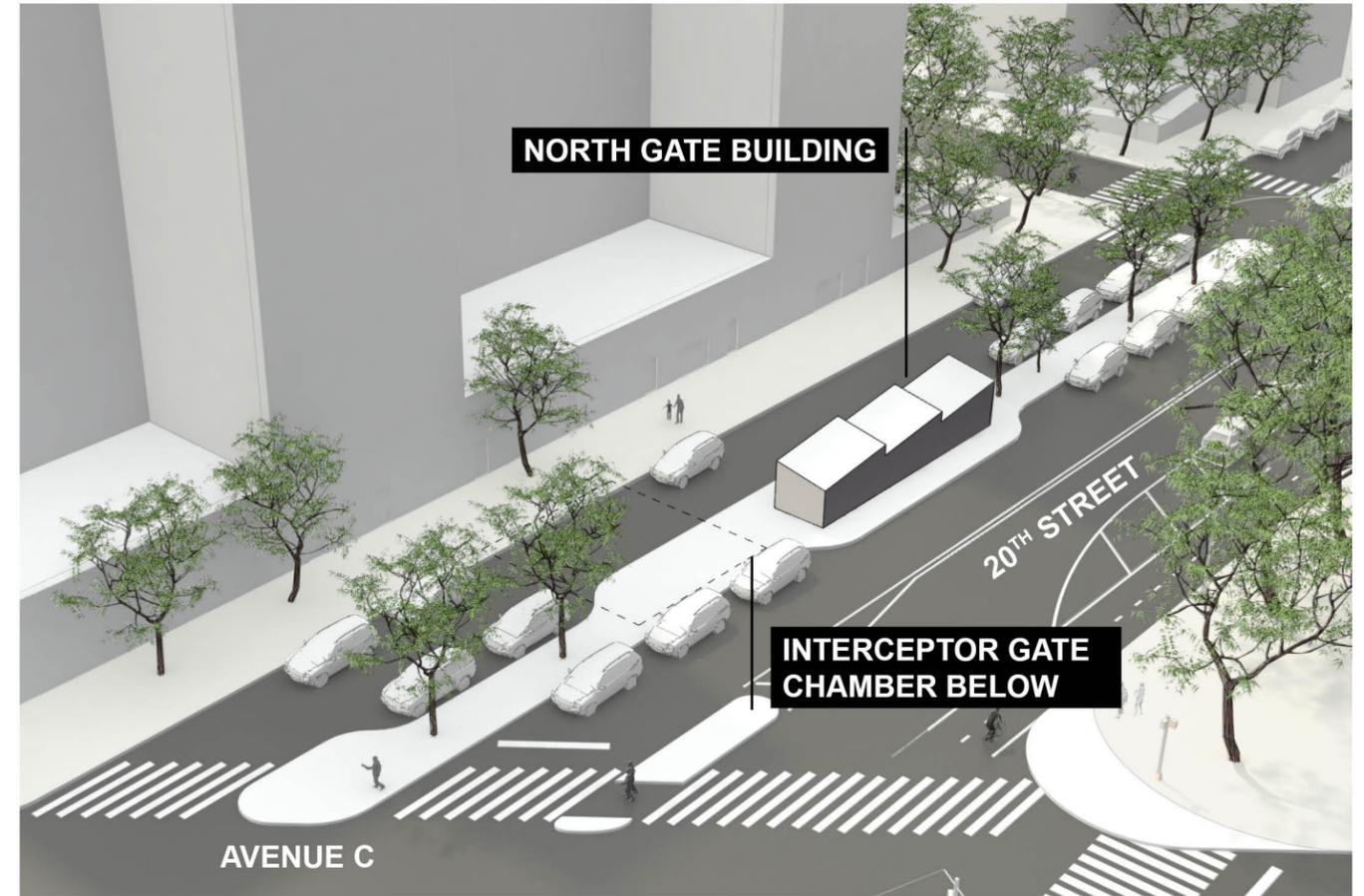
North Gate Building Location  
In 20th Street median near Ave. C

# IMPROVED DRAINAGE

## INTERCEPTOR GATES AND BUILDING LOCATIONS



South Gate Building Location  
Between FDR and Corlears Hook Park



North Gate Building Location  
In 20th Street median near Ave. C

An aerial photograph of East River Park in New York City, showing the park's layout, including a baseball field, tennis courts, and walking paths, situated along the East River. The image is overlaid with a semi-transparent teal color. Centered on the image is the text "PA 1 & EAST RIVER PARK UPDATE" in a bold, white, sans-serif font.

# PA 1 & EAST RIVER PARK UPDATE



An aerial architectural rendering of a city waterfront development. The scene shows a dense urban grid of buildings on the left, transitioning into a waterfront promenade with green spaces, walkways, and a large, semi-circular amphitheater structure. A suspension bridge spans across a body of water in the foreground. The entire image is overlaid with a semi-transparent teal color.

# AMPHITHEATER PLANNING

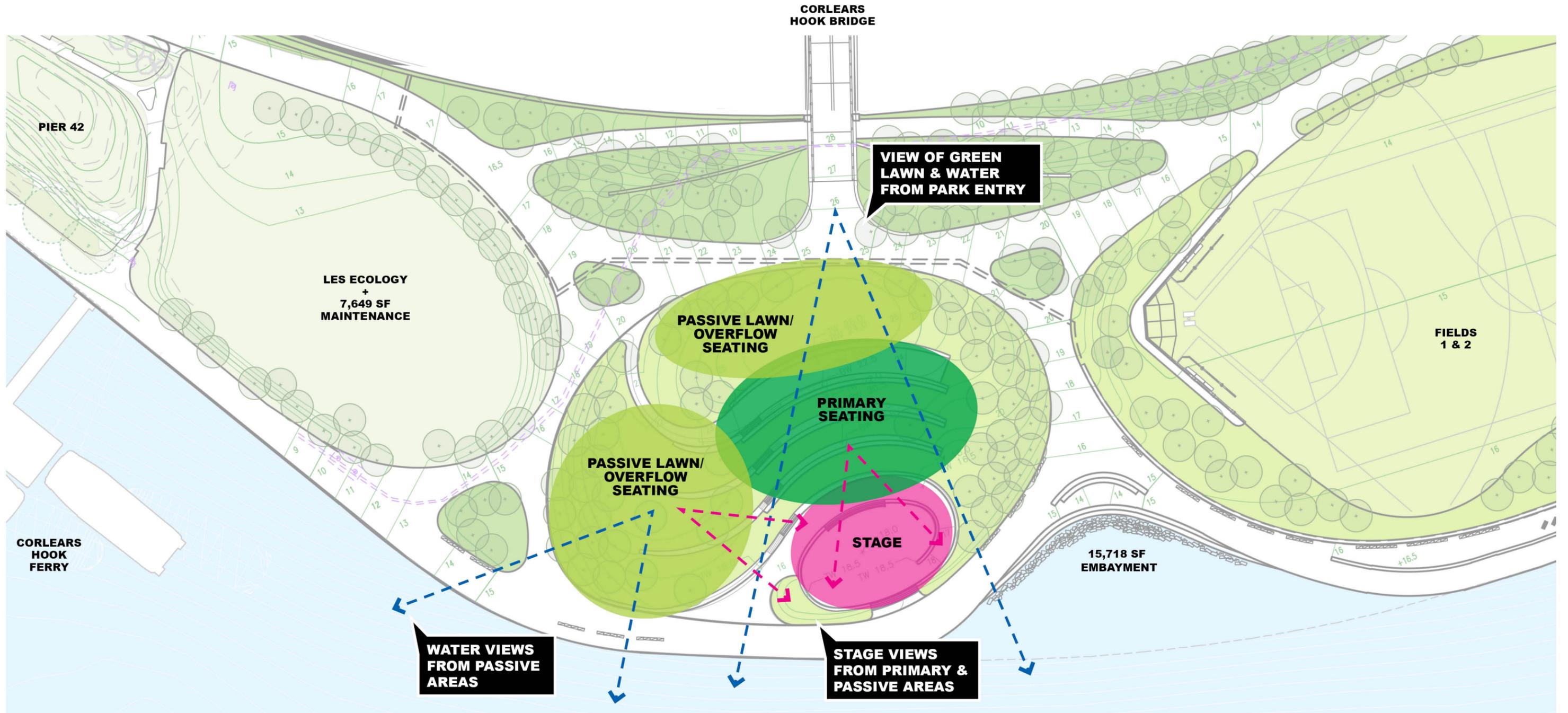


**DELANCEY AREA**  
CURRENT PLAN



# AMPHITHEATER

## PRELIMINARY CONCEPT PROGRAM

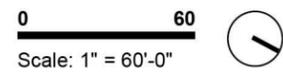
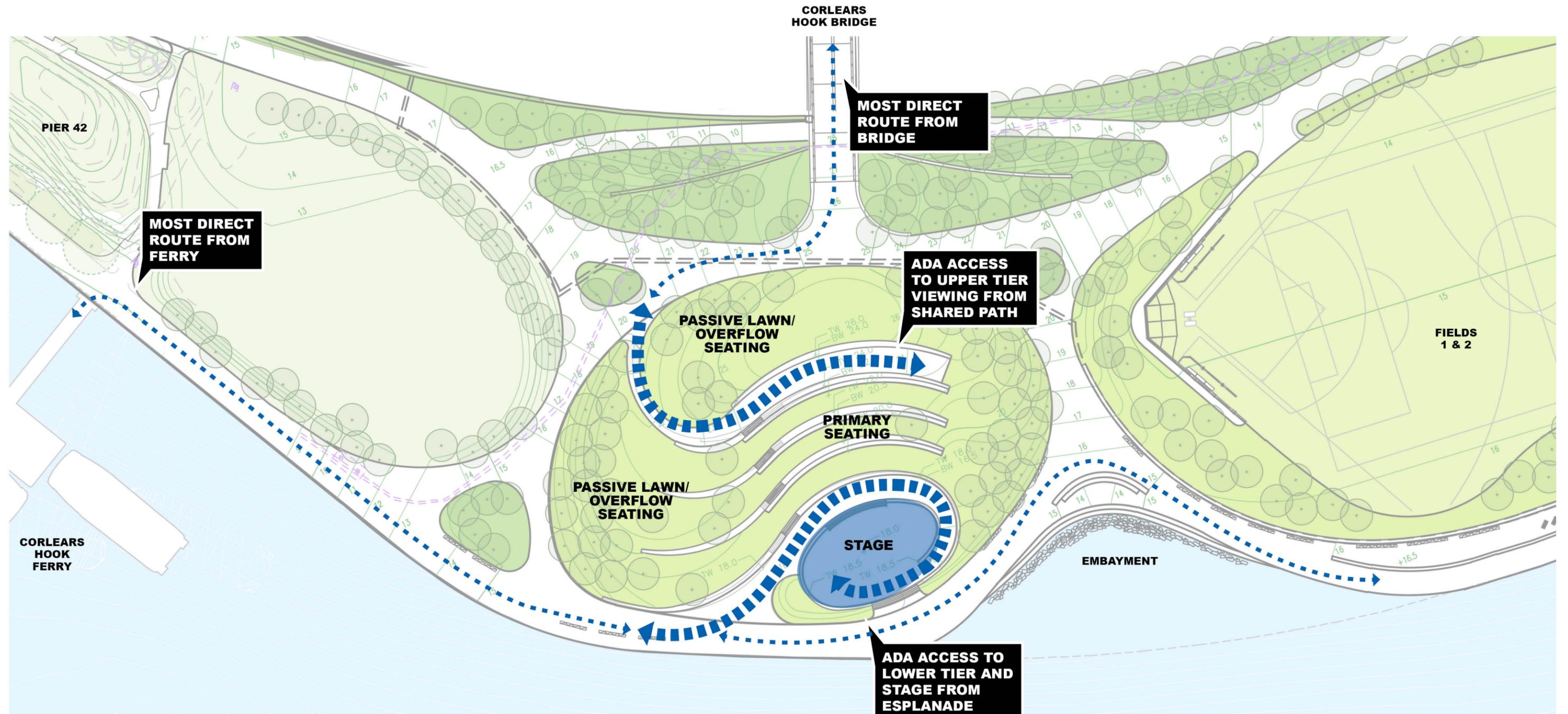


0 60  
Scale: 1" = 60'-0"



# AMPHITHEATER

## PRELIMINARY CIRCULATION & ACCESSIBILITY



An aerial, isometric-style rendering of a cityscape, heavily tinted with a teal color. The scene shows a dense grid of buildings, a prominent suspension bridge crossing a wide river, and several green parks and sports fields interspersed among the urban blocks. The overall aesthetic is clean and architectural.

# **PLANTING & BIODIVERSITY**

# PARK RESILIENCY



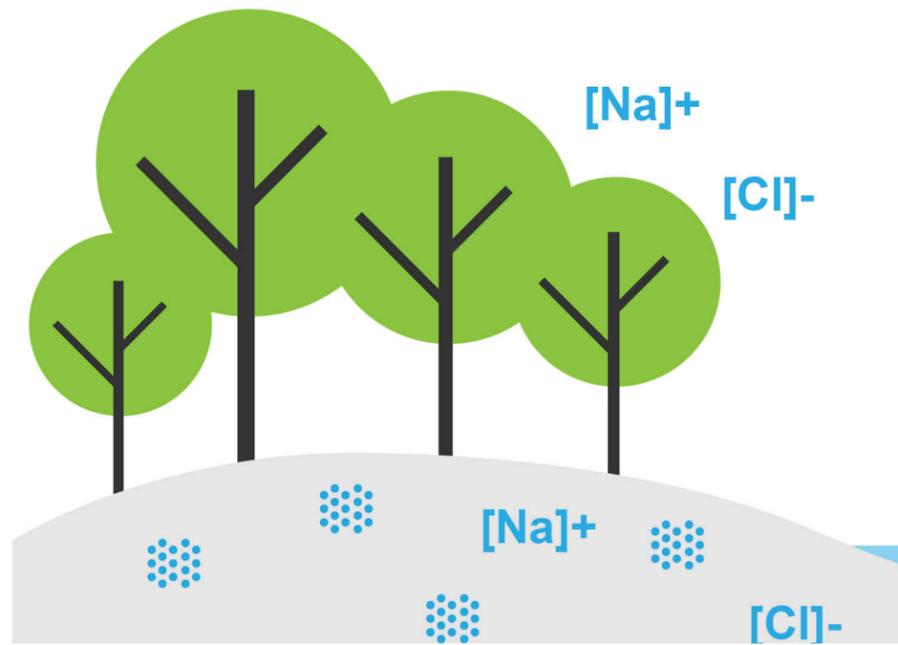
**SPECIES DIVERSITY**



**HABITAT**



**MAINTENANCE & CARE**

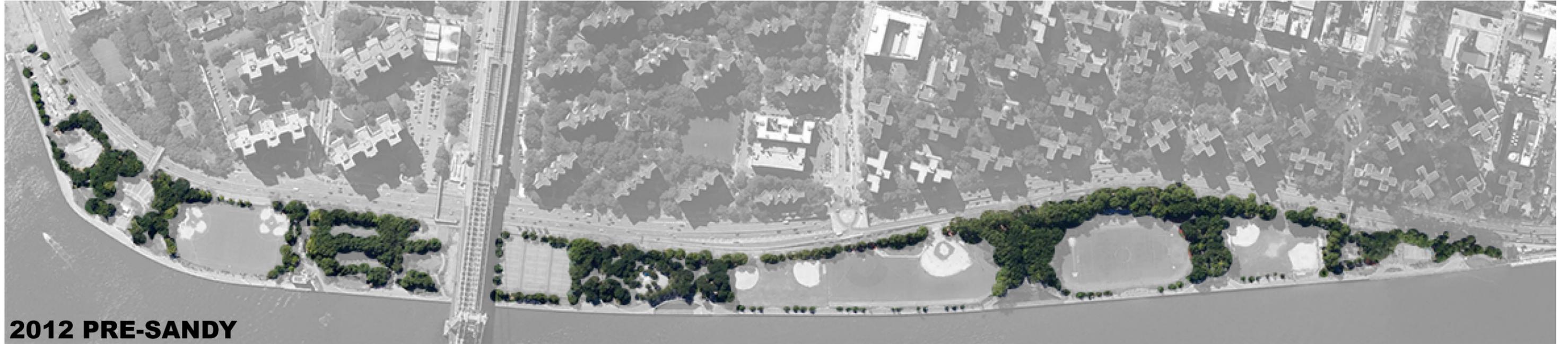


**SALT SPRAY**



**WIND**

# POST-SANDY CANOPY CHANGE



# PLANTING CONCEPT



**LAYERED  
GROVE**

**INFORMAL GROVES OF TREES WILL BE PLANTED WITH A DIVERSE MIX OF TREE SPECIES FOR ECOLOGY, SHADE, AND RESILIENCY. BETWEEN 1,100 TO 1,300 TREES ARE ANTICIPATED TO BE PLANTED IN THE PARK**

**PASTORAL  
GROVE**

RENDERING DEPICTS VARIANCE IN TREE SPECIES GROWTH RATES. TREES ARE REPRESENTED WITH 10-20 YEARS OF GROWTH

**HOUSTON AREA**  
CURRENT PLAN

# PLANTING CONCEPT



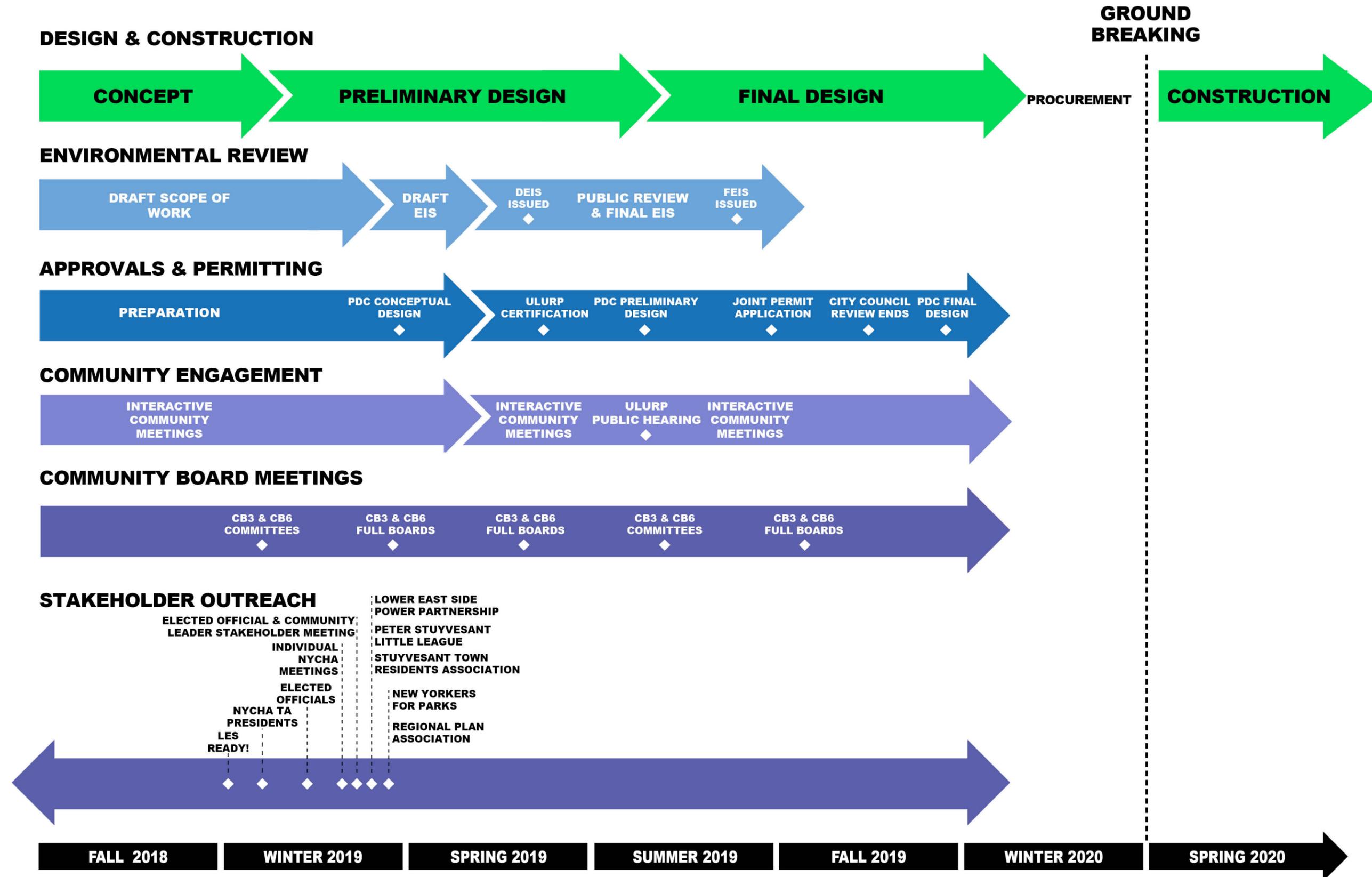
RENDERING DEPICTS 2015 MEAN HIGHER HIGH WATER

**HOUSTON AREA**  
CURRENT PLAN

An aerial photograph of a city, likely New York City, showing a dense urban grid, a river, and a suspension bridge. The image is overlaid with a semi-transparent teal color. The text "COMMUNITY ENGAGEMENT SCHEDULE" is centered in white, bold, uppercase letters.

# COMMUNITY ENGAGEMENT SCHEDULE

# OVERVIEW OF OUTREACH AND ENGAGEMENT



# Website

**NYC**  
The East Side Coastal Resiliency Project

Translate | Text-Size

Home Vision Background Progress Get Involved Resources Search

**Public Input Sessions: Using the tools of design to engage residents and stakeholders in decision making**

### 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 Development (HUD). The project design intends to integrate flood protection into the community fabric, improving access to the waterfront rather than walling off the neighborhood.

Since early visioning, the City has been working hand-in-hand with community partners and residents to identify the best ways to meet the challenges we face from climate change, including sea level rise and more frequent, intense storms. When in place, the ESCR Project will provide improved coastal protection to more than 110,000 vulnerable New Yorkers through 2.4 miles of enhanced waterfront, ecology, and urban spaces. Public workshops and outreach are taking place regularly, and your input is crucial in making this project the best one it can be.

Have a comment? [Submit your comments.](#)

Watch a message from Mayor Bill de Blasio on Climate Change and Sustainability

### Partners

**NYC DDC**  
Department of Design and Construction

**Visit Us!**  
**[www.nyc.gov/escr](http://www.nyc.gov/escr)**  
Twitter: [@NYClimate](https://twitter.com/NYClimate)

An aerial architectural rendering of a city waterfront development. The scene shows a dense urban grid of buildings on the left, transitioning into a waterfront area with a suspension bridge crossing a body of water. Along the waterfront, there are several green spaces, including what appears to be a baseball field and a tennis court. The entire image is overlaid with a semi-transparent teal color.

# Q+A