

# East Side Coastal Resiliency

NYCHA - Riis Houses Resident Association

April 9, 2019

468 Avenue D



## **PROJECT GOALS & ORIGIN**

**Provide a reliable, integrated flood protection system; minimize use of closure structures.**

**Improve waterfront open spaces and access.**

**Achieve implementation milestones and project funding allocations as established by HUD.**

**Respond quickly to the urgent need for increased flood protection and resiliency.**



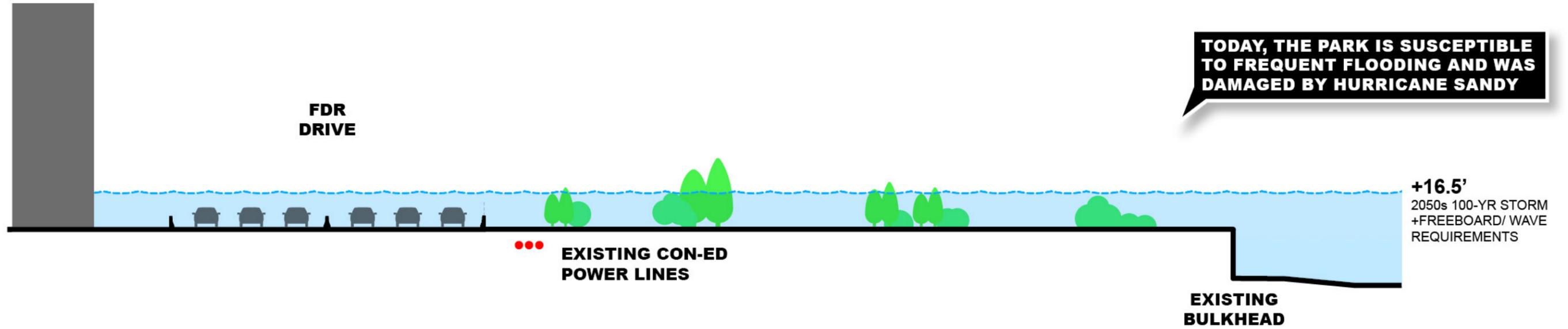


**NYCHA HOUSING**  
ADJACENT TO EAST RIVER PARK

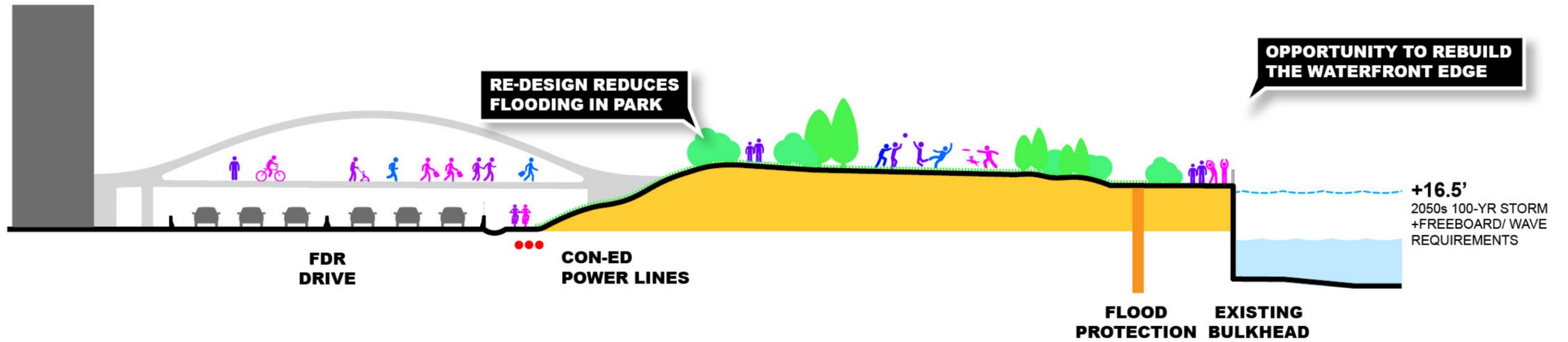
# IMPROVED PARK RESILIENCY

PARK IS ABOVE THE 2050s 100-YEAR FLOODPLAIN

## EXISTING CONDITIONS

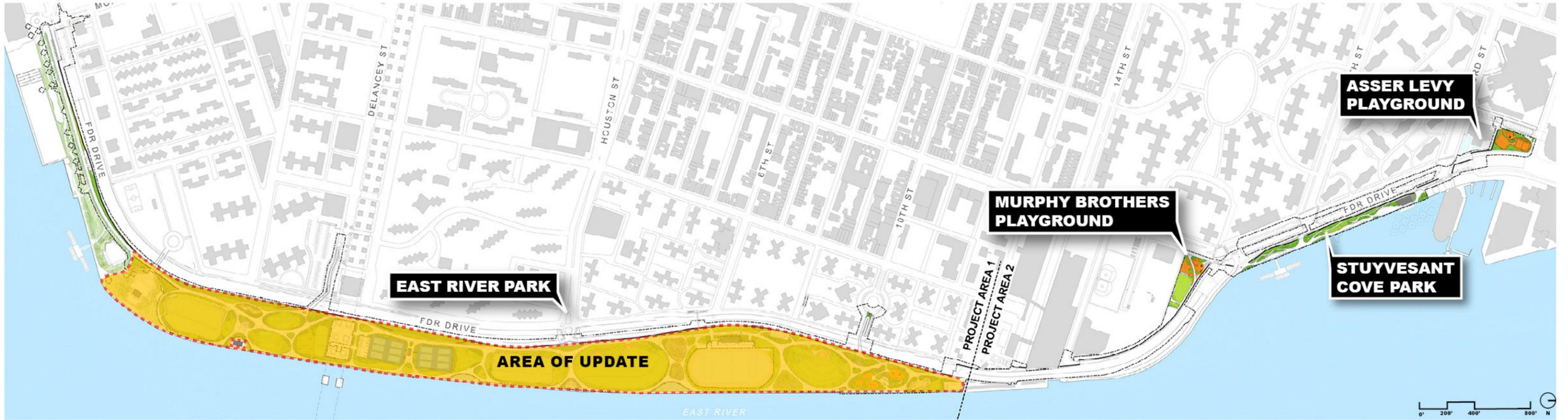


## CURRENT PLAN



# AREA OF DESIGN CHANGES

## EAST SIDE COASTAL RESILIENCY PROJECT

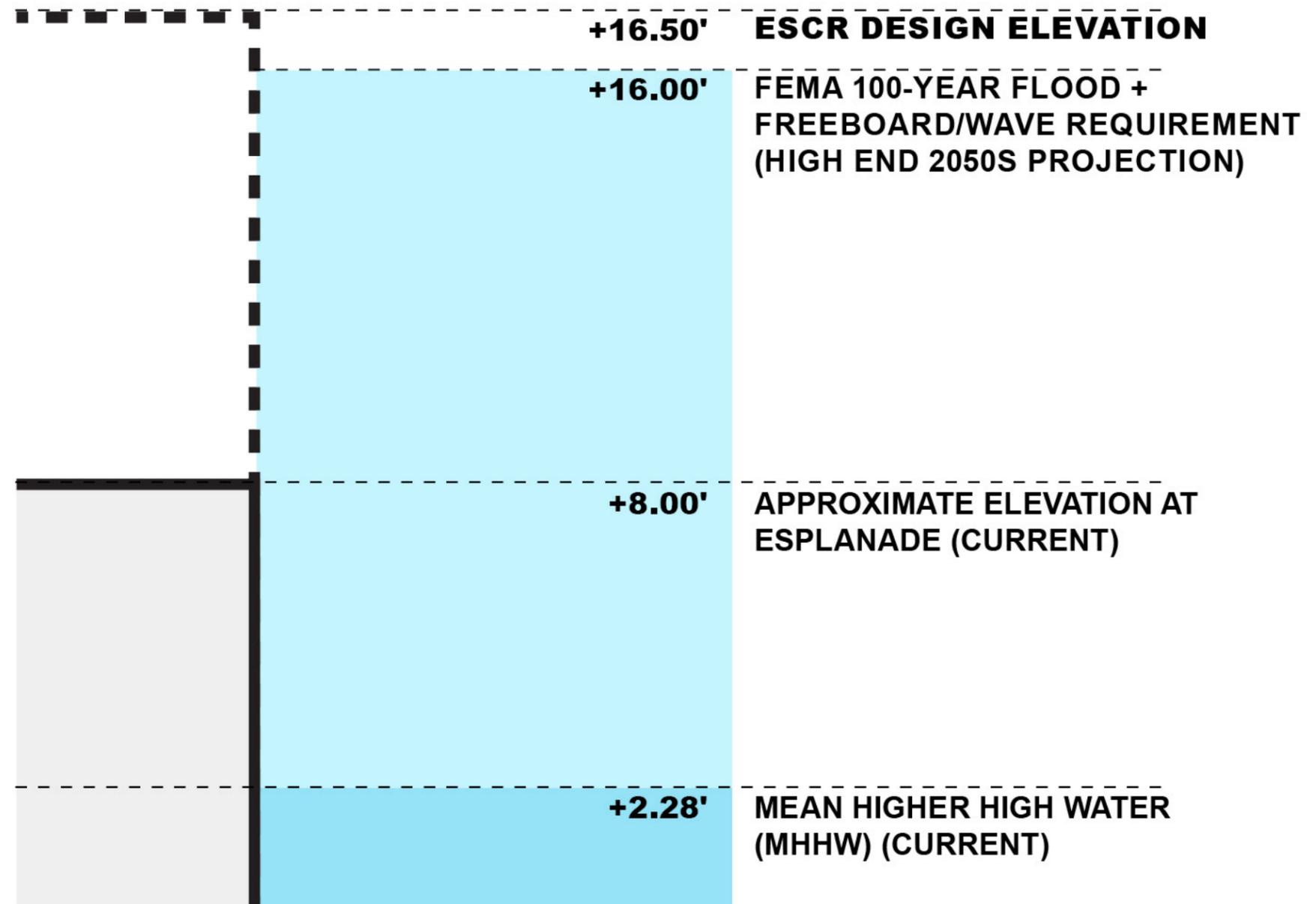


# IMPROVED PARK RESILIENCY

## FLOOD DESIGN ELEVATIONS

**HUD FUNDING REQUIREMENT: THE SYSTEM MUST PURSUE FEMA ACCREDITATION WITH MINIMUM SYSTEM ELEVATION AT CURRENT FEMA 100-YEAR STORM ELEVATION + WAVE ACTION**

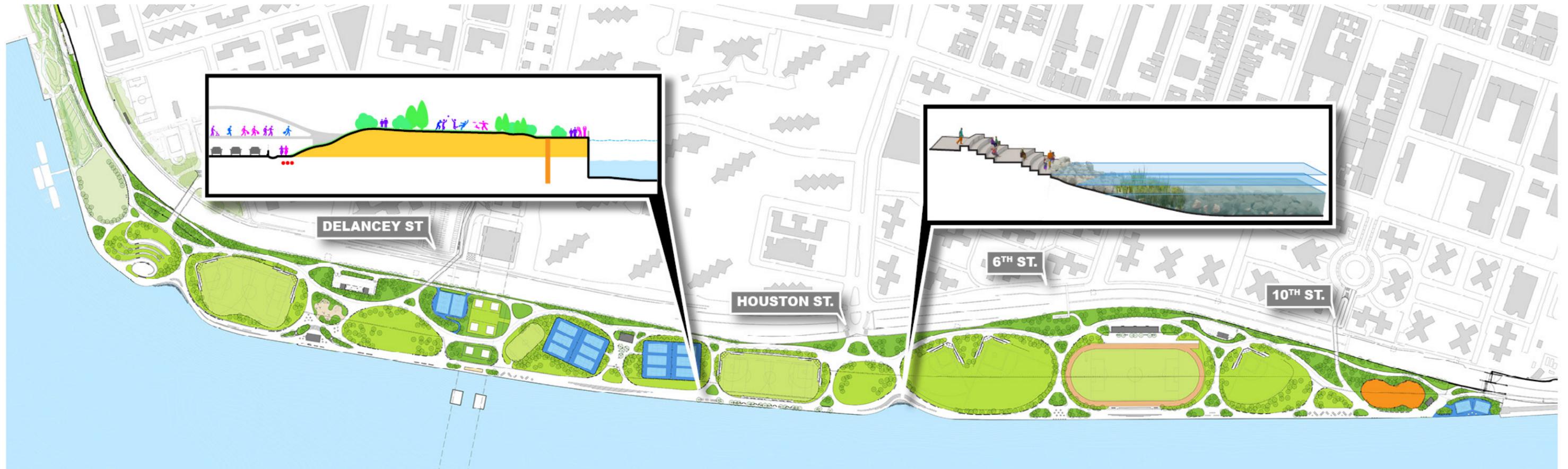
**DESIGN HEIGHT: DESIGN HEIGHT DETERMINED BY 2050s 100-YEAR STORM ELEVATION (INCL 30" SEA LEVEL RISE) + WAVE ACTION**



NOTE: ALL ELEVATIONS SHOWN IN NAVD88

# CURRENT PLAN

## PROJECT GOALS

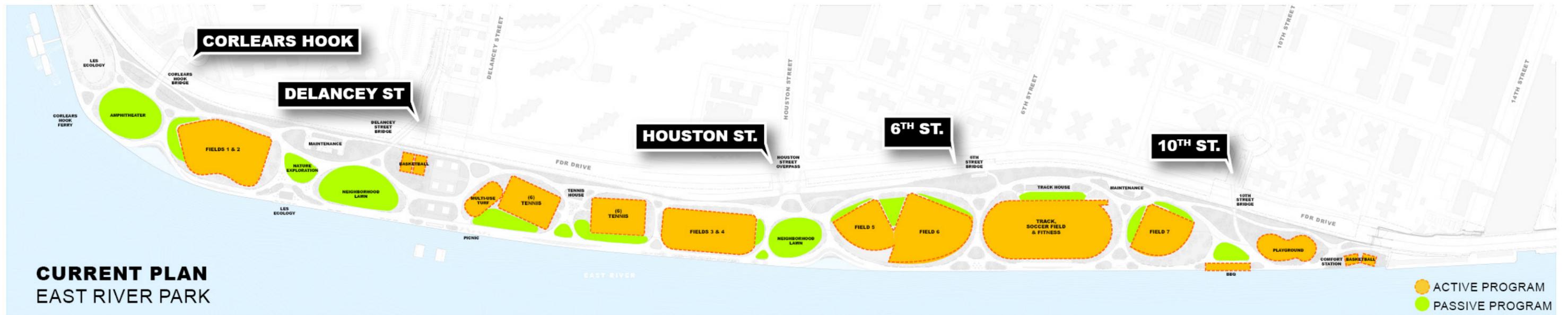


- **INTEGRATE PASSIVE FLOOD PROTECTION**
- **IMPROVE WATERFRONT ACCESS & OPEN SPACES**
- **ACHIEVE TIMELINE & FUNDING MILESTONES**
- **TIMELY DELIVERY OF FLOOD PROTECTION**



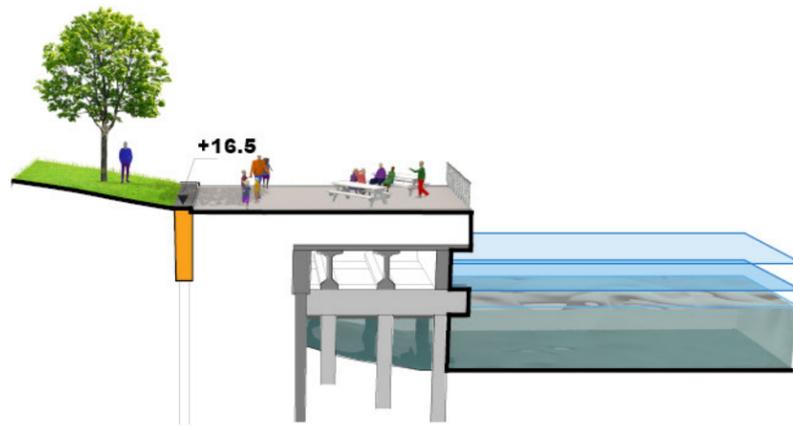
# IMPROVED OPEN SPACE

## PARK PROGRAM COMPARISON

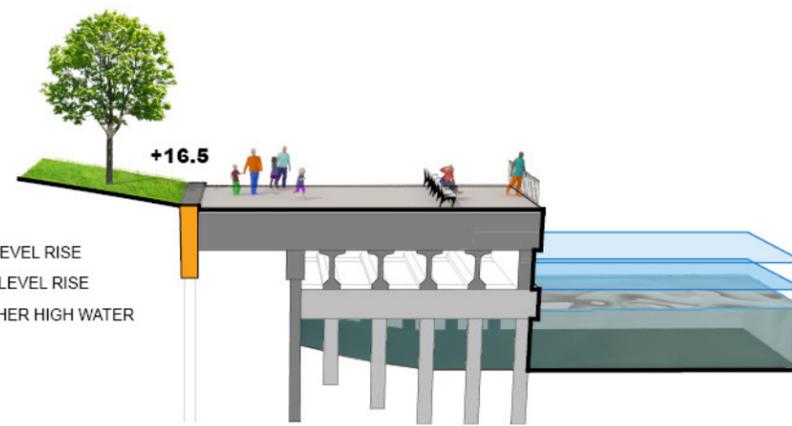


# IMPROVED PARK RESILIENCY

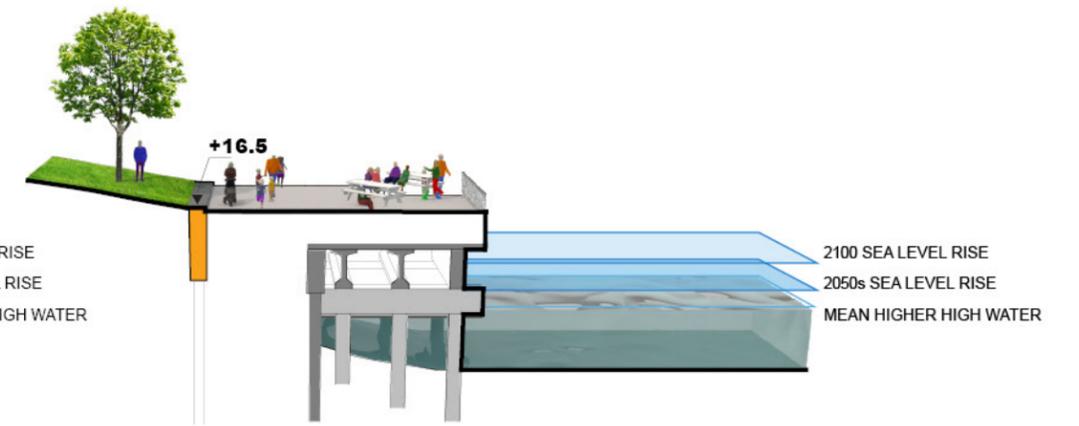
## DIFFERENT EXPERIENCES FOR WATERFRONT ACCESS



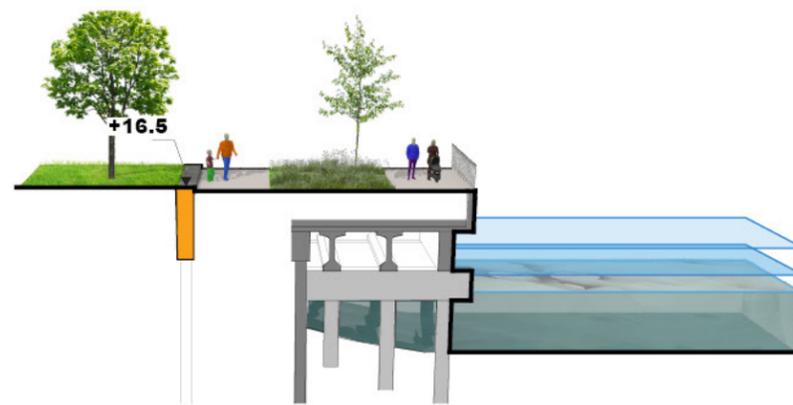
**ACTIVE EDGE**



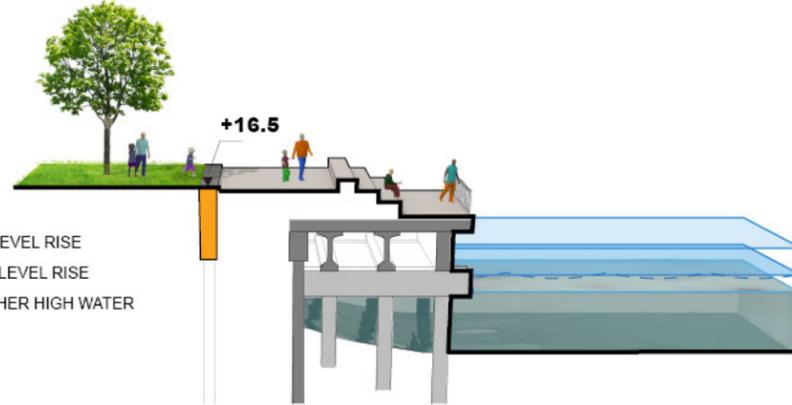
**CIVIC PROMENADE**



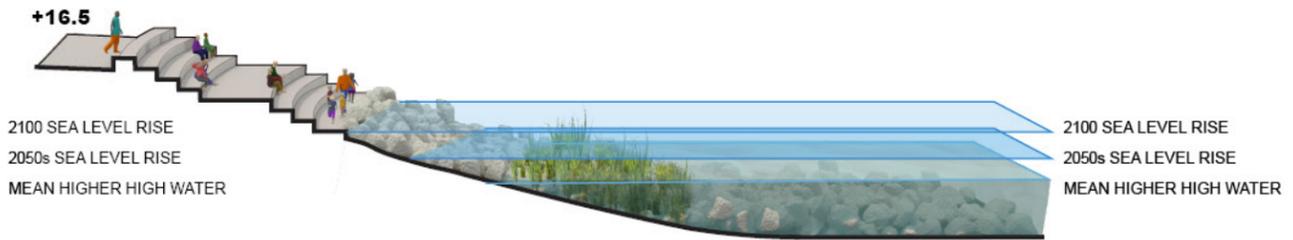
**STEP UP**



**PLANTED EDGE**

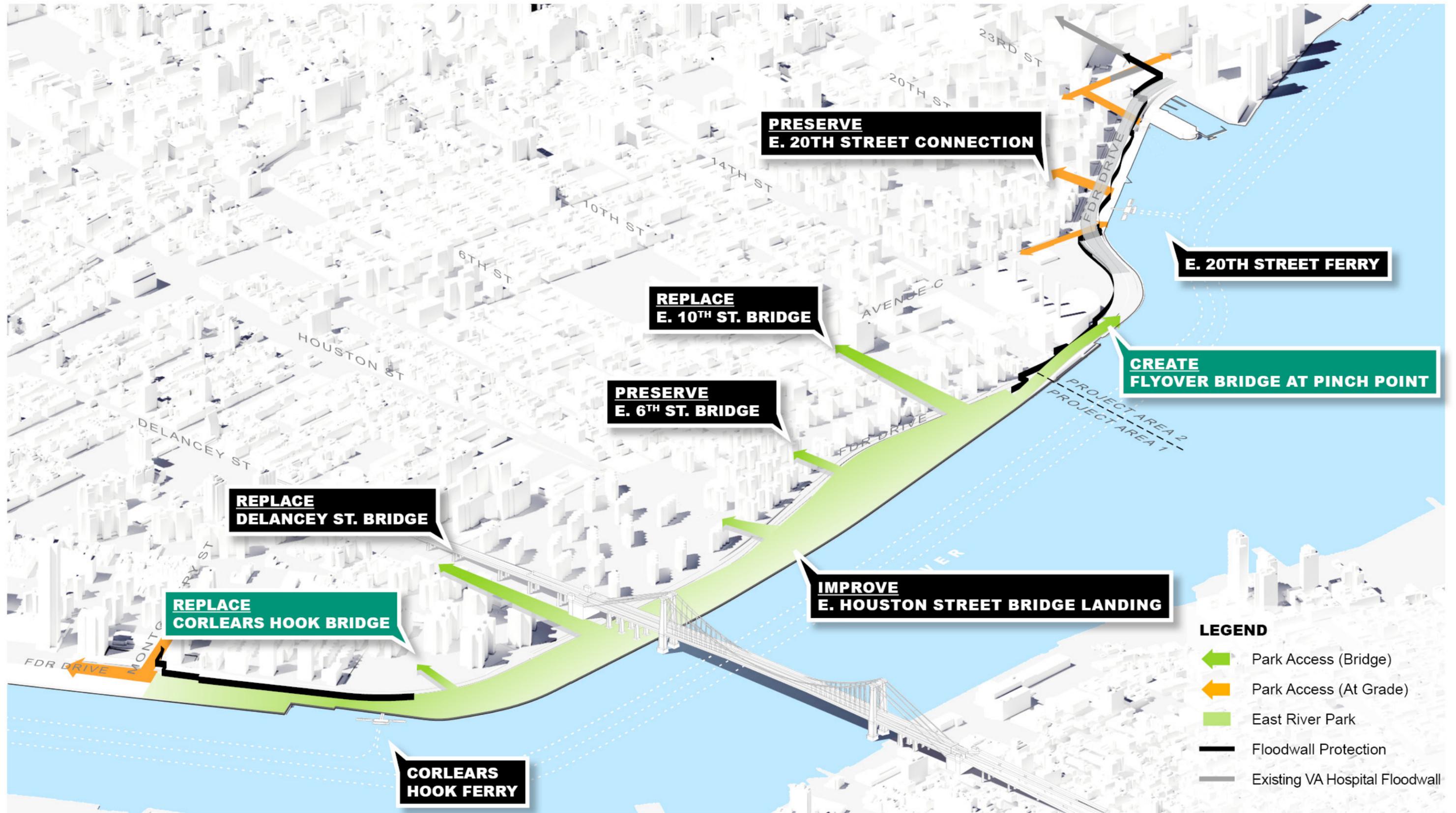


**STEP DOWN**



**EMBAYMENT**

# IMPROVED WATERFRONT OPEN SPACES & ACCESS

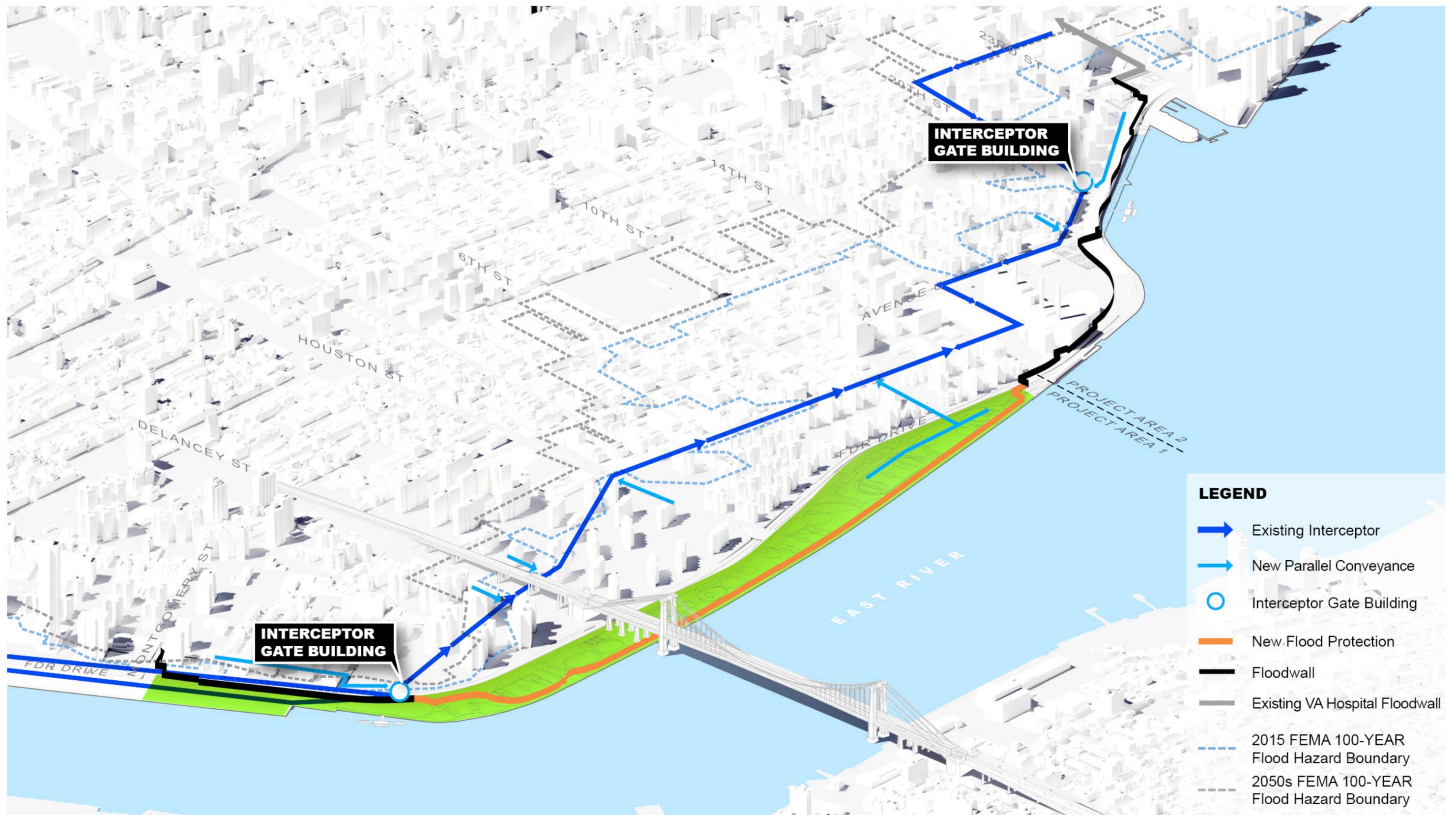


An aerial, isometric-style rendering of a city waterfront. The scene is dominated by a dense grid of buildings on the left and center. A prominent suspension bridge spans across a body of water on the right. Along the waterfront, there are several green spaces, including what appears to be a baseball field and other recreational areas. The entire image has a teal color overlay. The text 'DRAINAGE IMPROVEMENTS' is centered in white, bold, uppercase letters.

# DRAINAGE IMPROVEMENTS

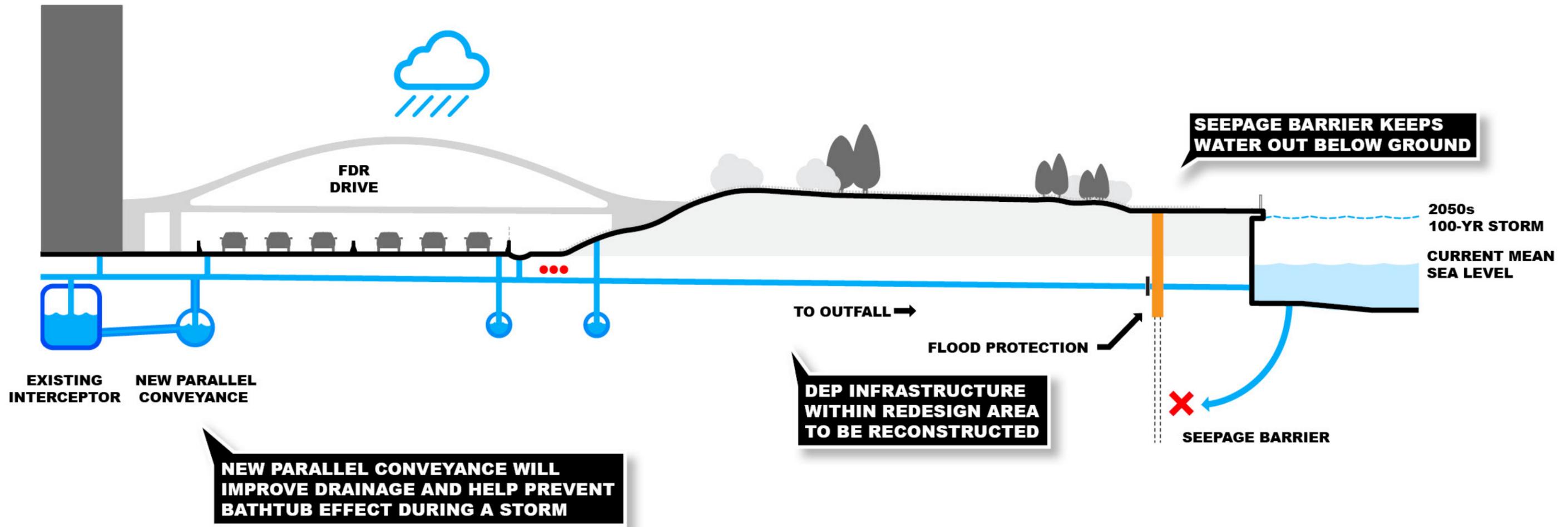
# IMPROVED DRAINAGE

## FULL SITE STRATEGY



# PARK & FDR DRAINAGE

RAINWATER COLLECTED AT MULTIPLE POINTS BETWEEN PARK AND FDR



# **IMPROVED DRAINAGE**

## INTERCEPTOR GATE AND BUILDING SITING DESIGN CRITERIA

### **Design Criteria for Below Grade Interceptor Gate**

- **Must be located inline with the existing interceptor sewer**
- **Sufficient vertical clearance above the interceptor to grade**
- **Sufficient space near chamber for an above grade building**
- **Must be upstream of any connections from protected area and downstream of any connections from unprotected area**

### **Design Criteria for Building**

- **Located near the Interceptor Gate, as building contains electrical, hydraulic, and mechanical support system for the interceptor gate**
- **Located above grade so that it can be accessed easily by DEP operations personnel on a regular basis**
- **Sufficient area for operations and maintenance vehicle access**

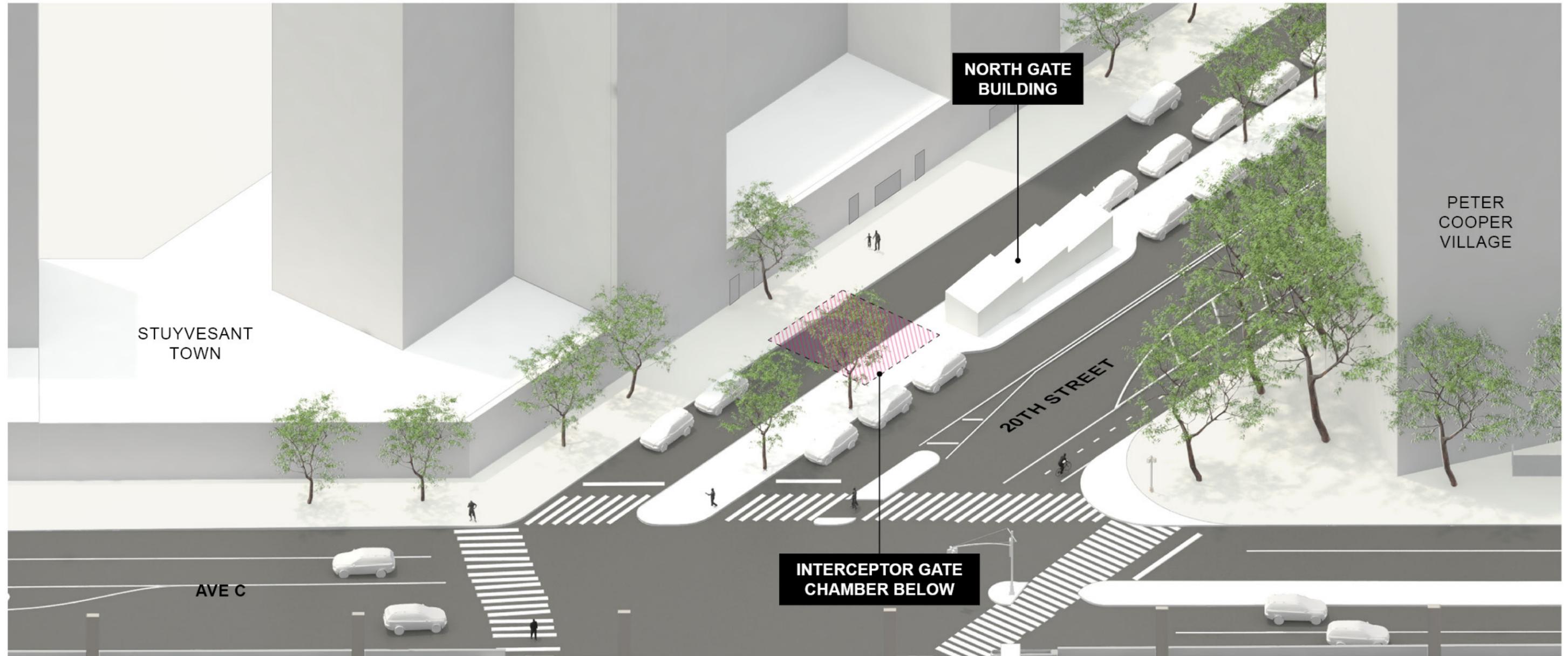
# IMPROVED DRAINAGE

## SOUTH INTERCEPTOR GATE CHAMBER BUILDING



# IMPROVED DRAINAGE

## NORTH INTERCEPTOR GATE CHAMBER BUILDING





**AREA 3: TRACK & EAST 10<sup>TH</sup> STREET**

**AREA 2: BARUCH HOUSES**

**AREA 1: DELANCEY**





**AREA 1: DELANCEY**  
CONCEPTUAL PLAN



**DELANCEY OVERLOOK**  
EXISTING CONDITIONS



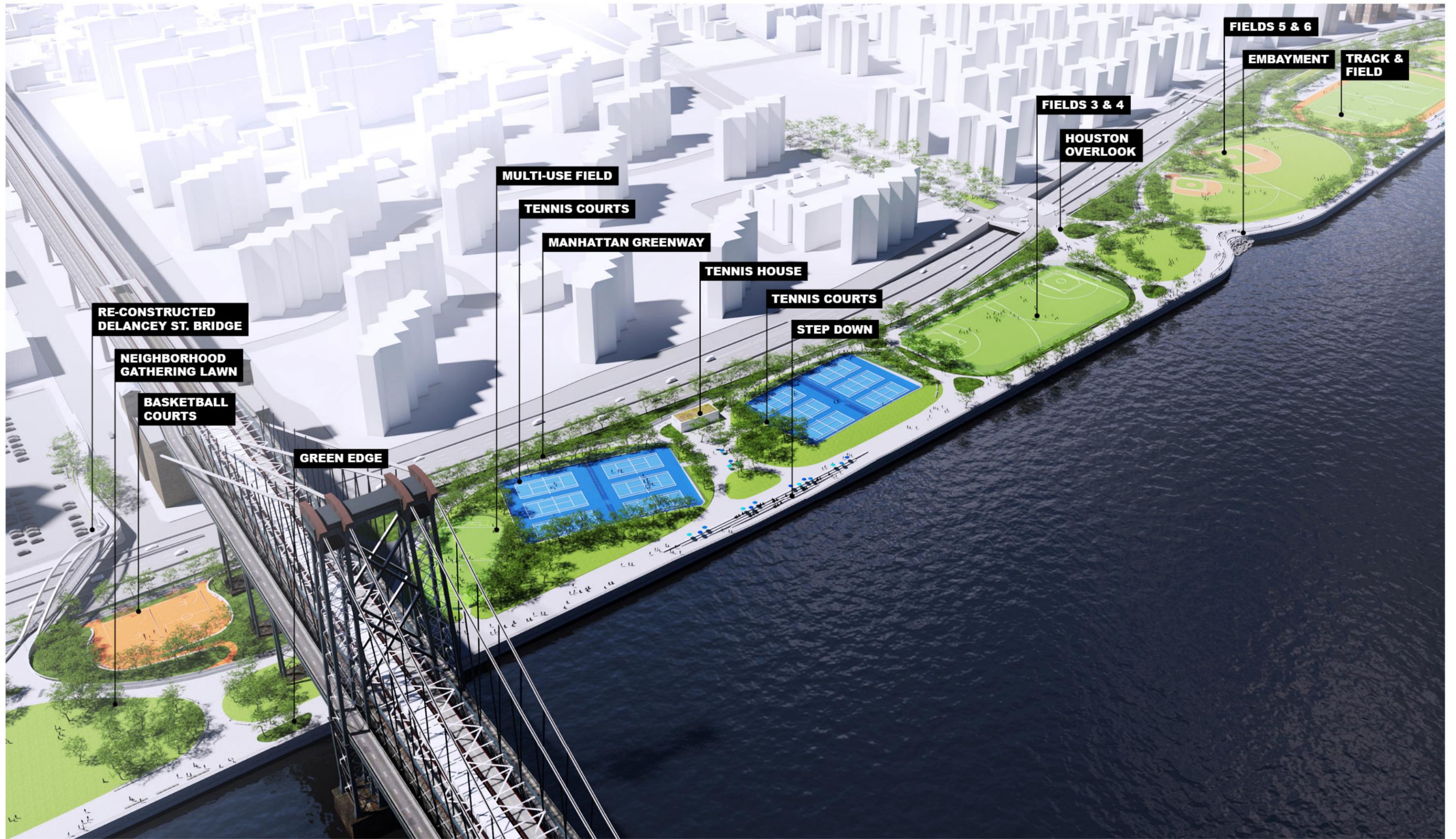
**DELANCEY OVERLOOK**  
PREVIOUS DESIGN



**DELANCEY OVERLOOK**  
CONCEPTUAL DESIGN



**DELANCEY OVERLOOK**  
CONCEPTUAL DESIGN - STORM CONDITIONS



**AREA 2: BARUCH HOUSES**  
CONCEPTUAL DESIGN



**RENDERING DEPICTS 2015 MEAN HIGHER HIGH WATER**

**HOUSTON AREA**  
CONCEPTUAL DESIGN



**RENDERING DEPICTS 2050 MEAN HIGHER HIGH WATER**

**HOUSTON AREA**  
CONCEPTUAL DESIGN



**HOUSTON AREA**  
CONCEPTUAL DESIGN



**AREA 3: TRACK & E. 10<sup>TH</sup> ST.**  
CONCEPTUAL DESIGN



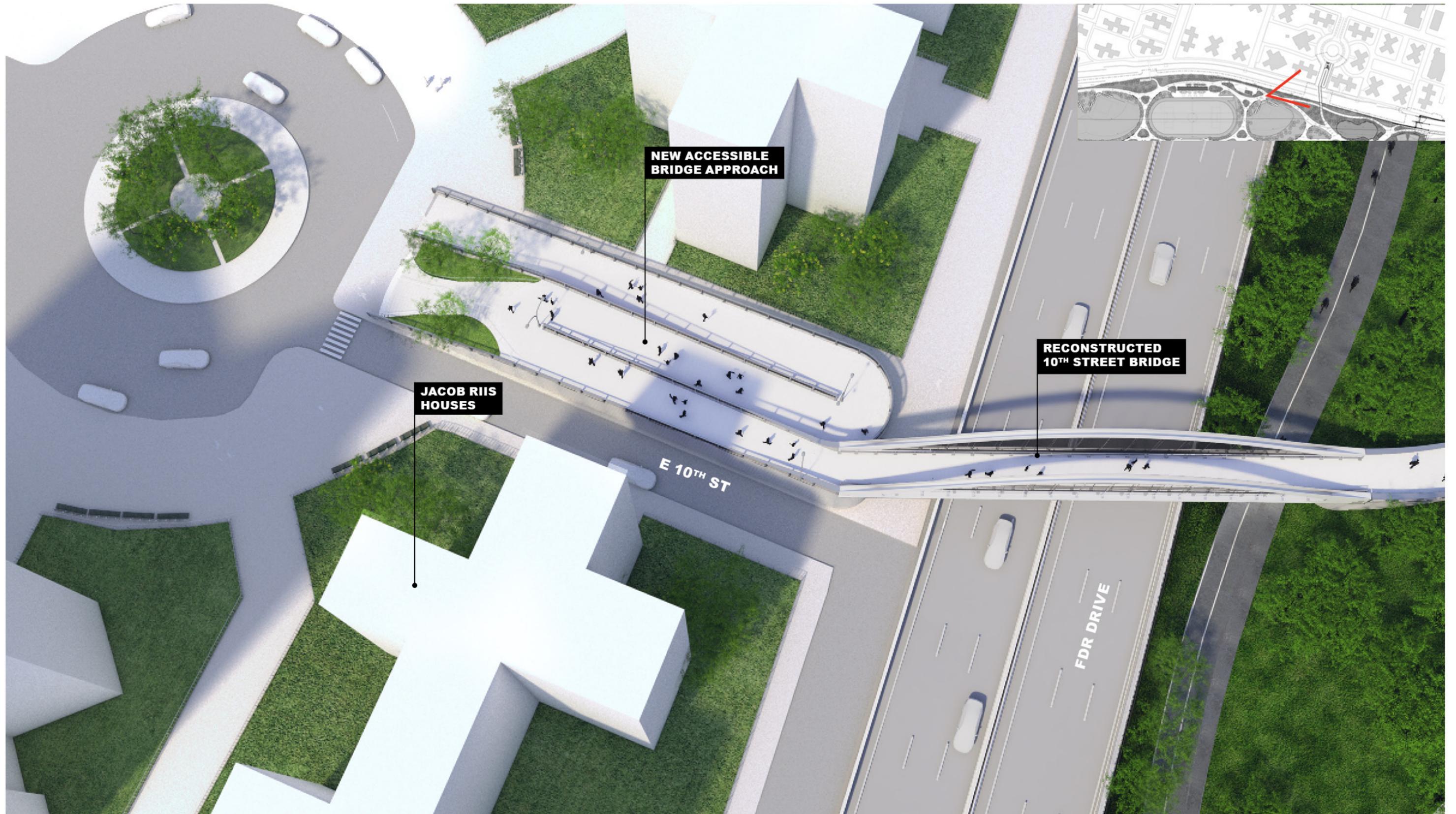
**TRACK & FIELD AREA**  
CONCEPTUAL DESIGN



**TRACK & FIELD AREA**  
CONCEPTUAL DESIGN - STORM CONDITIONS



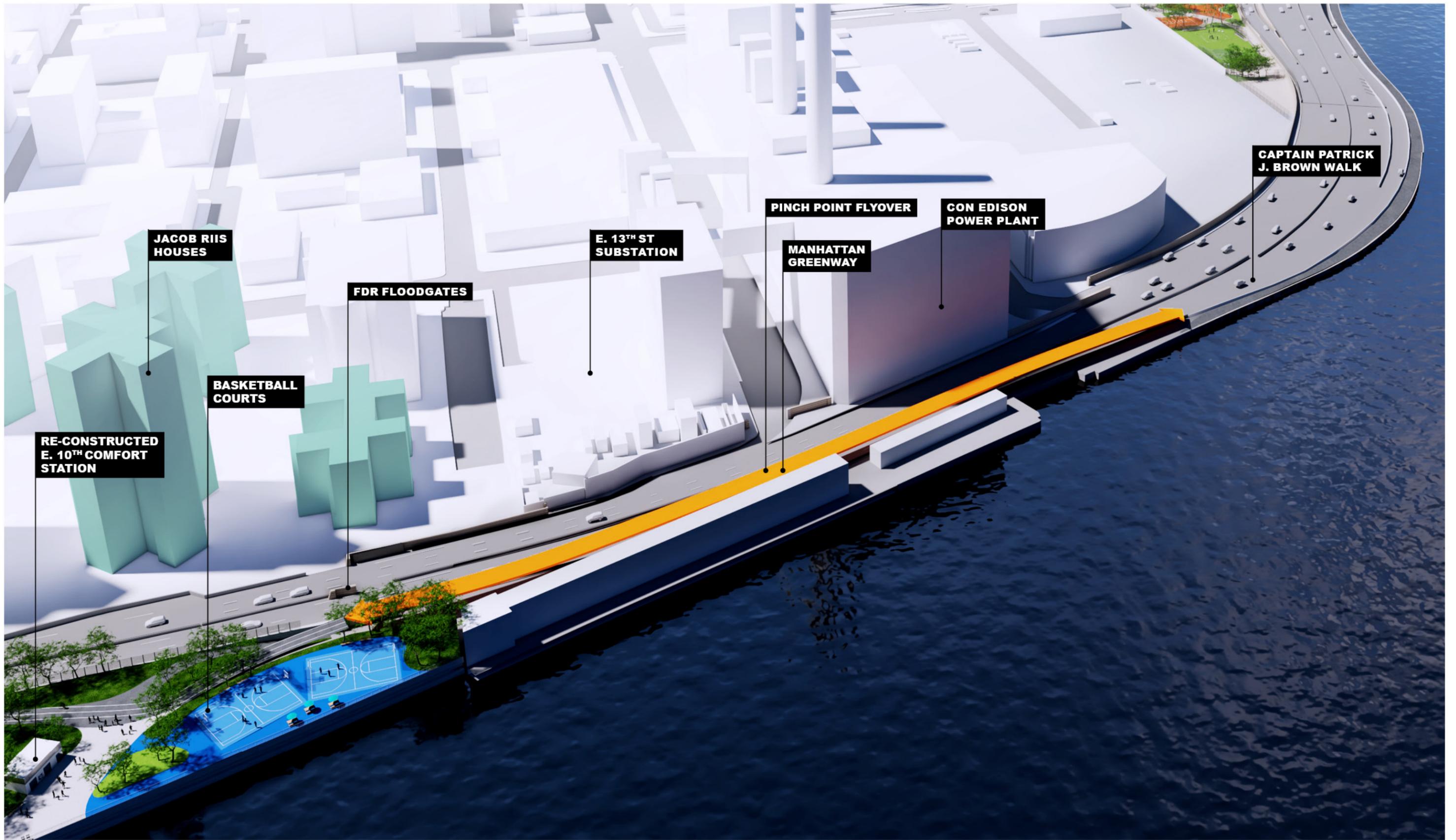
**E 10<sup>TH</sup> STREET BRIDGE**  
CONCEPTUAL DESIGN



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

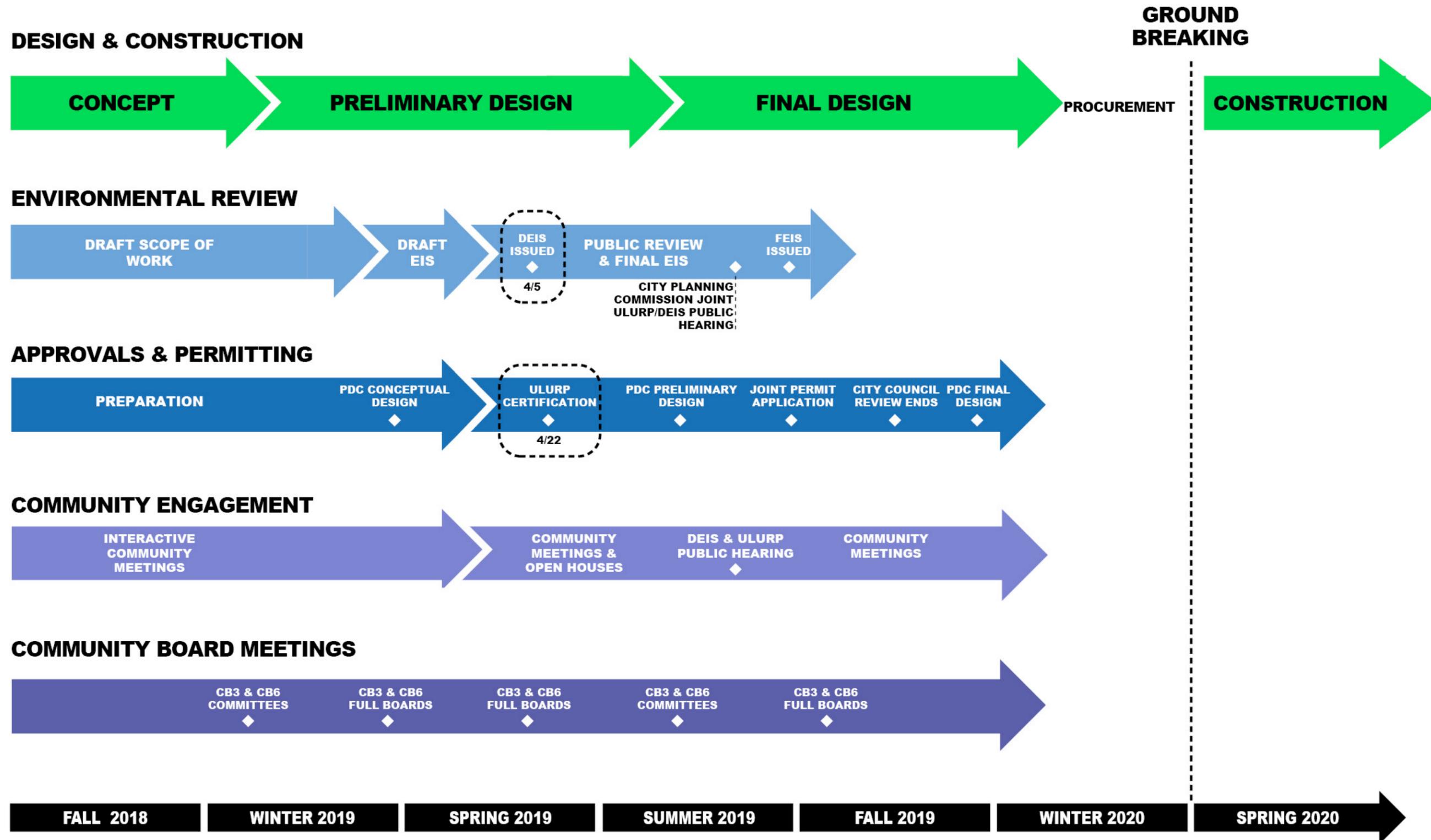


**E 10<sup>TH</sup> STREET BRIDGE**  
BRIDGE VIEW

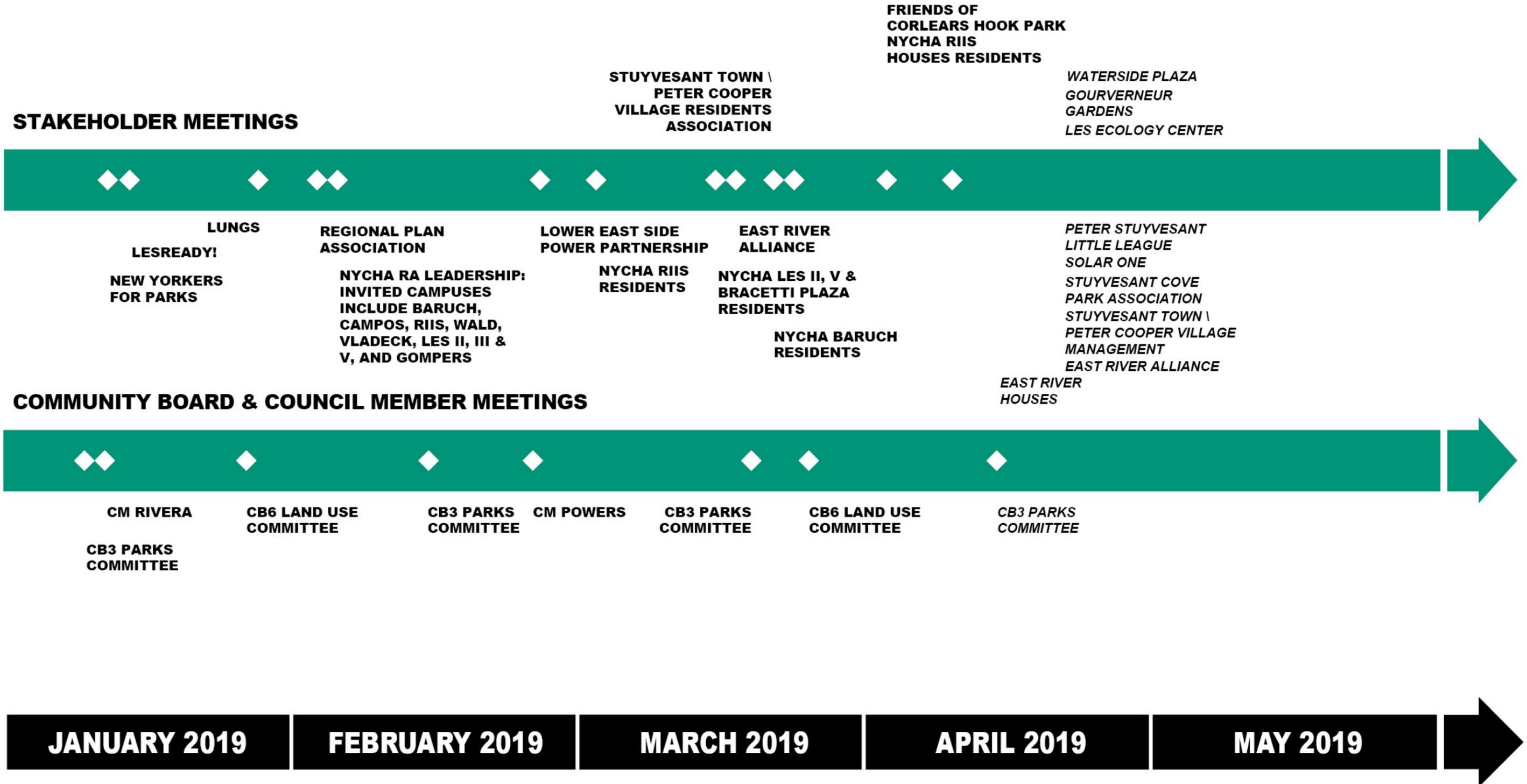


**PINCH POINT FLYOVER BRIDGE**  
CONCEPTUAL DESIGN

# COMMUNITY ENGAGEMENT



# COMMUNITY ENGAGEMENT SCHEDULE



**MEETING OCCURRED**  
MEETINGS TO TAKE PLACE/  
TO BE SCHEDULED

# Website

NYC East Side Coastal Resiliency 311 Search all NYC.gov websites

NYC  
The East Side Coastal Resiliency Project

Italiano Translate Text-Size

Home Vision Background Progress Get Involved Resources Search

**Draft Environmental Impact Statement (DEIS) Now Available for Review and Comments**

### 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.

### Partners

**NYC DDC**  
Department of Design and Construction

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