

# East Side Coastal Resiliency

## NYCHA - Lillian Wald Houses Residents Meeting

April 29, 2019

58 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.**







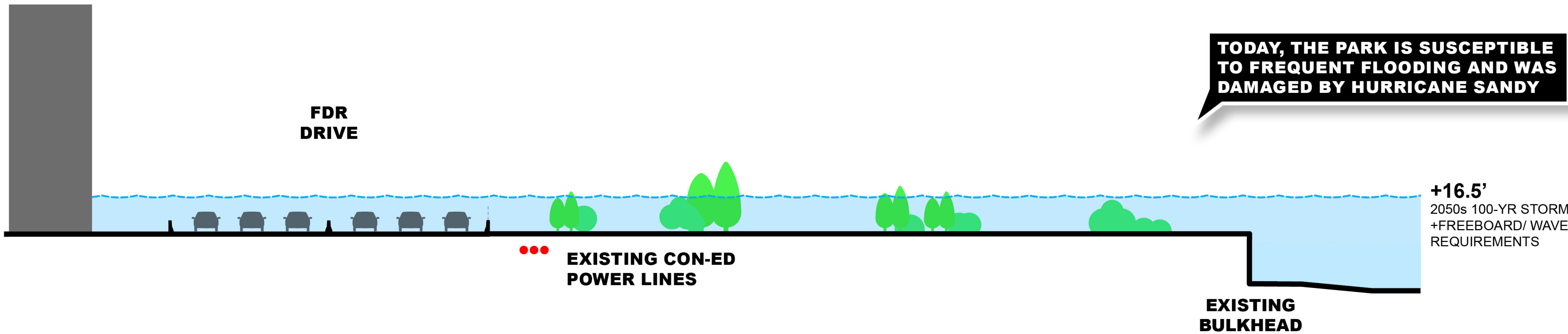
**NYCHA HOUSING**  
ADJACENT TO EAST RIVER PARK



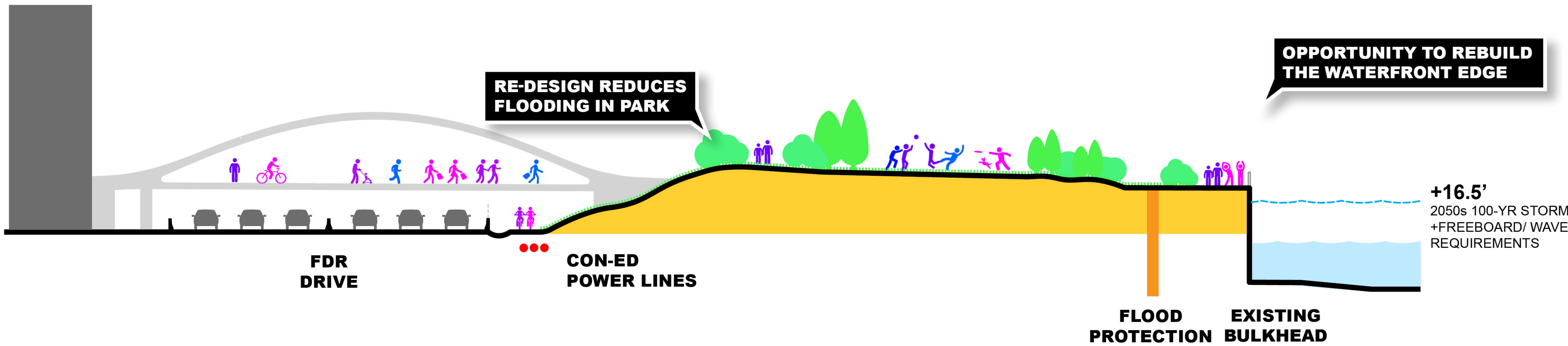
# IMPROVED PARK RESILIENCY

PARK IS ABOVE THE 2050s 100-YEAR FLOODPLAIN

## EXISTING CONDITIONS



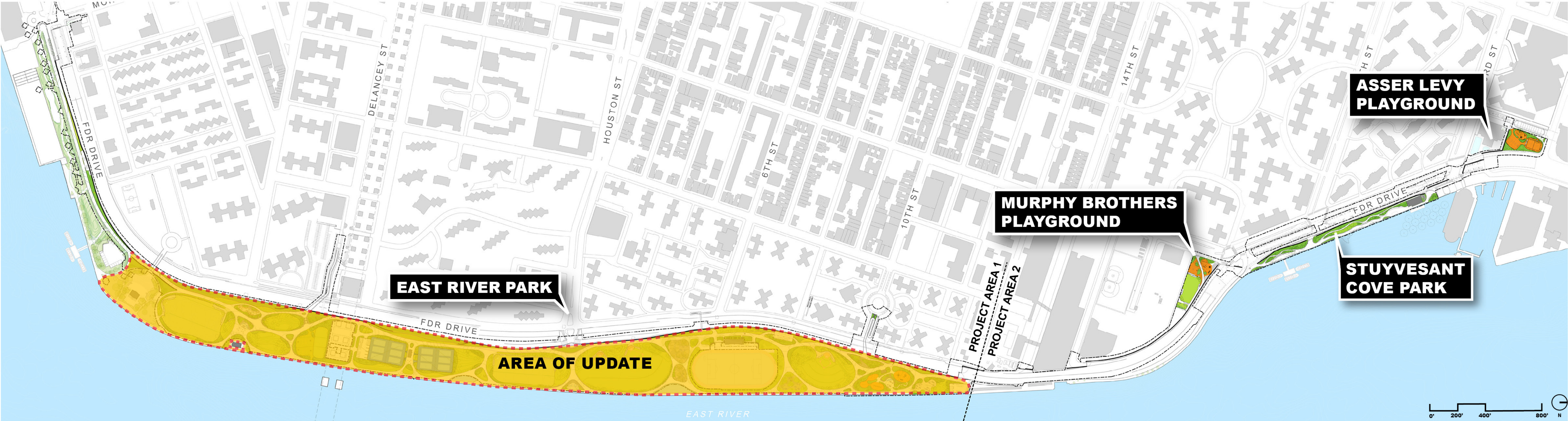
## CURRENT PLAN





# AREA OF DESIGN CHANGES

EAST SIDE COASTAL RESILIENCY PROJECT



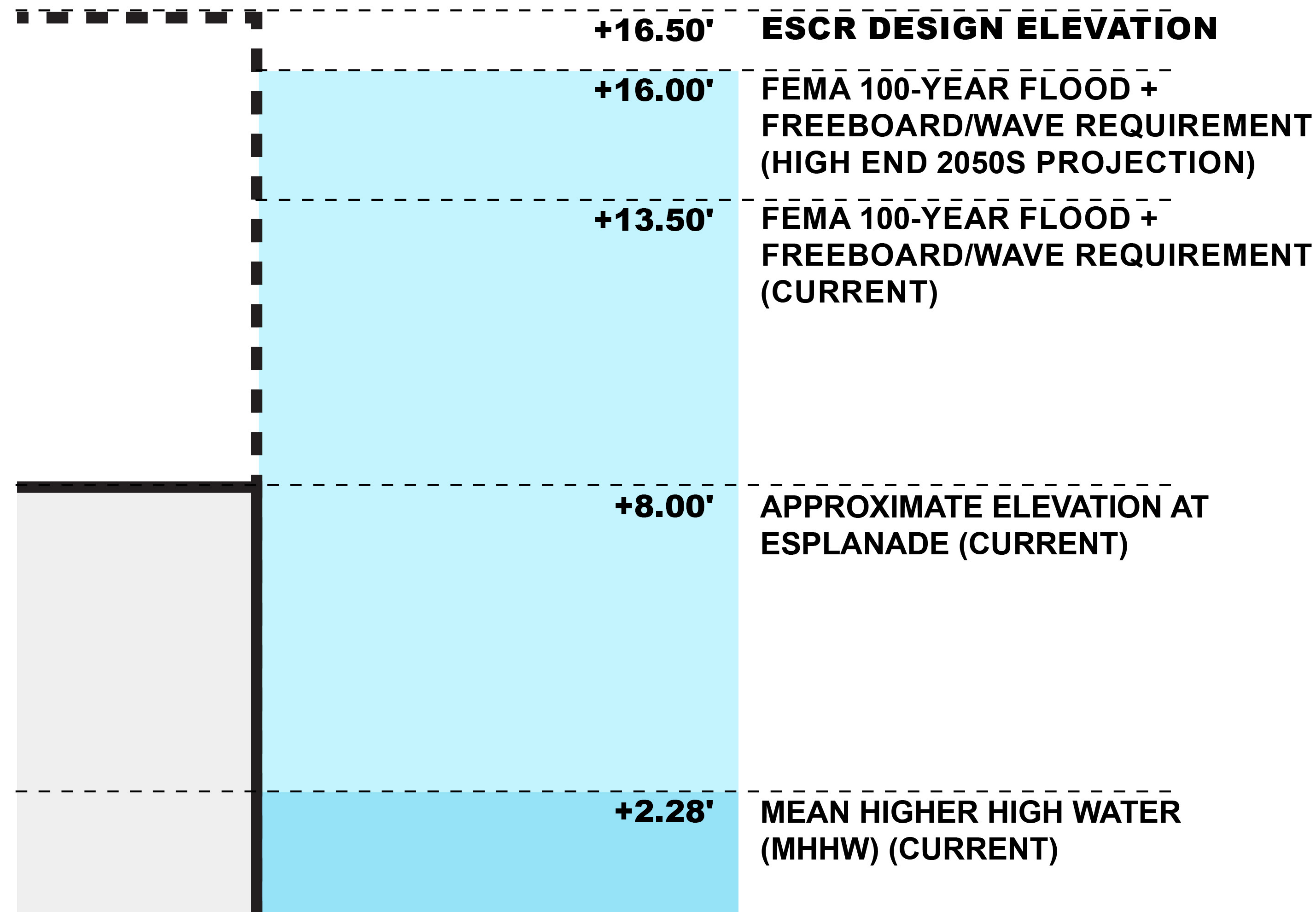


# IMPROVED PARK RESILIENCY

## 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**

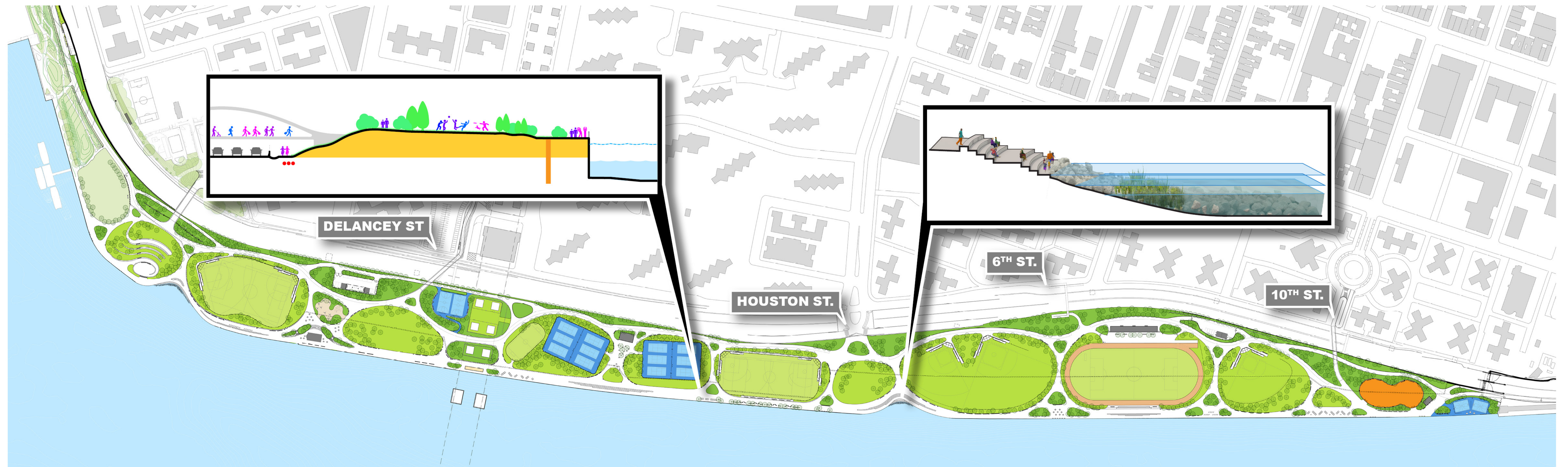


NOTE: ALL ELEVATIONS SHOWN IN NAVD88



# CURRENT PLAN

## PROJECT GOALS



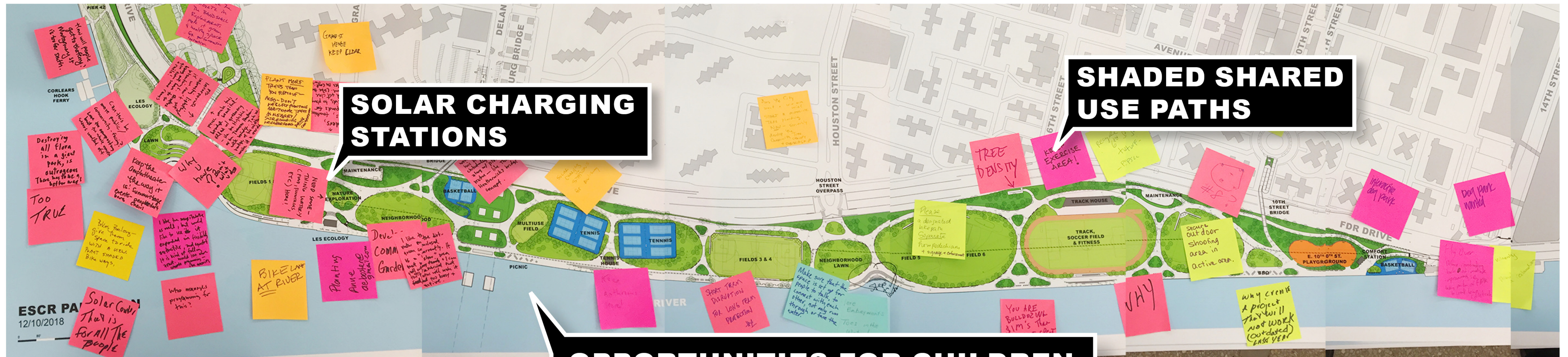
- **INTEGRATE PASSIVE FLOOD PROTECTION**
- **IMPROVE WATERFRONT ACCESS & OPEN SPACES**
- **ACHIEVE TIMELINE & FUNDING MILESTONES**
- **TIMELY DELIVERY OF FLOOD PROTECTION**



## WHAT WE'VE HEARD - EAST RIVER PARK



PLAN ROLL OUT ON DECEMBER 10<sup>TH</sup>



## PLAN ROLL OUT ON DECEMBER 11<sup>TH</sup>



# IMPROVED OPEN SPACE

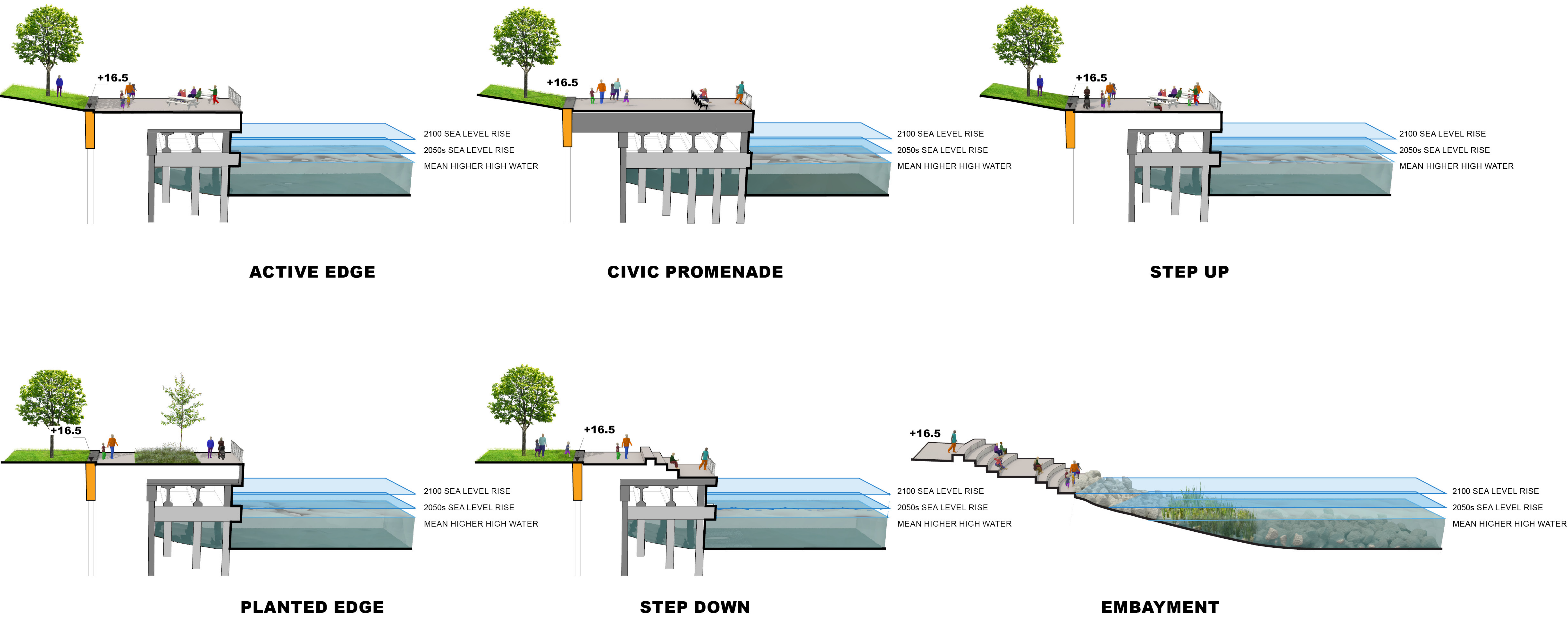
## PARK PROGRAM COMPARISON





# IMPROVED PARK RESILIENCY

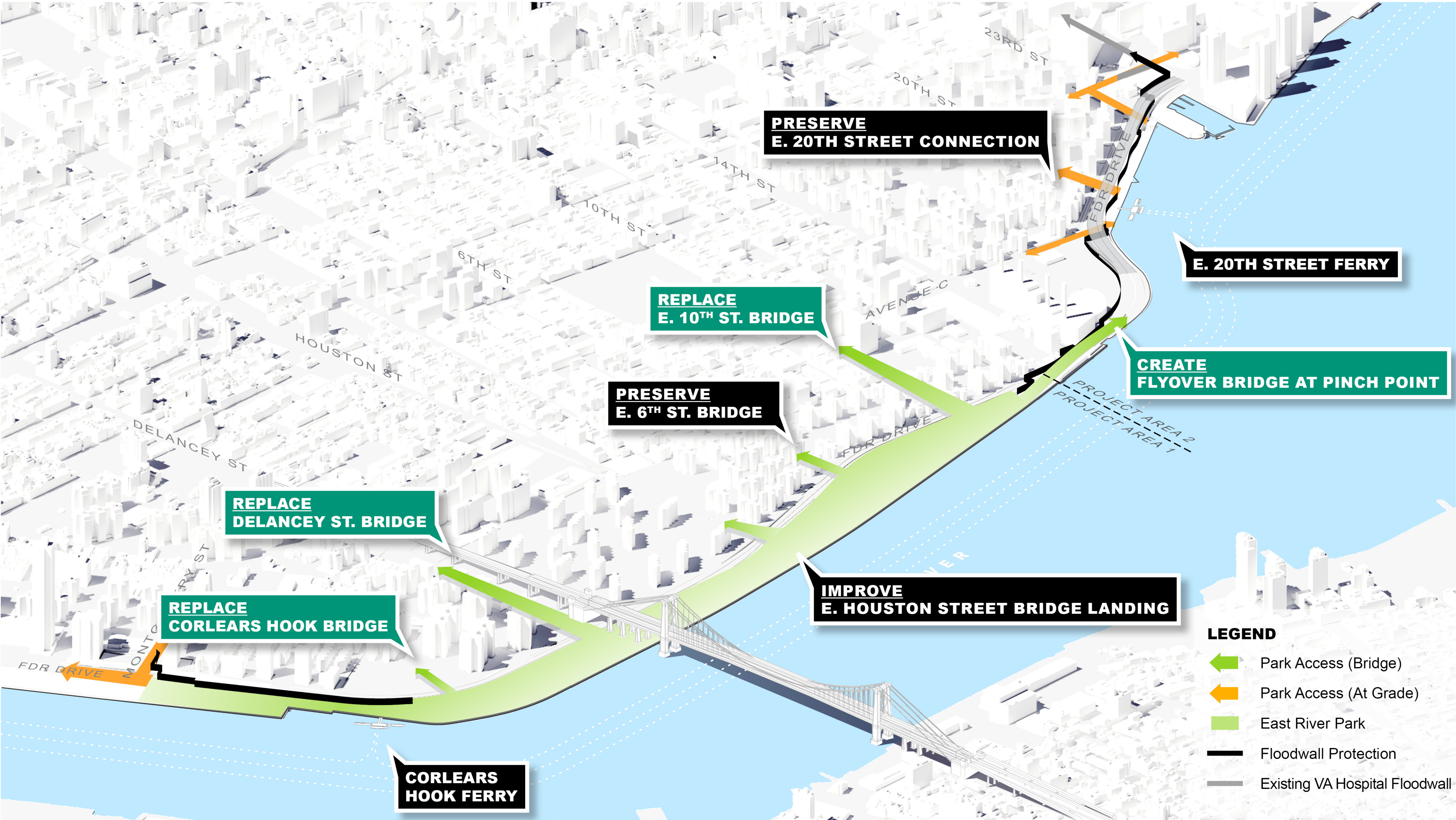
## DIFFERENT EXPERIENCES FOR WATERFRONT ACCESS





# IMPROVED WATERFRONT ACCESS

REPLACING, IMPROVING AND CREATING NEW CONNECTIONS





An aerial photograph of a city, likely New York City, showing a dense urban area with a river and a bridge. The image is overlaid with a teal filter. The text "DRAINAGE IMPROVEMENTS" is centered in white, bold, uppercase letters.

# **DRAINAGE IMPROVEMENTS**

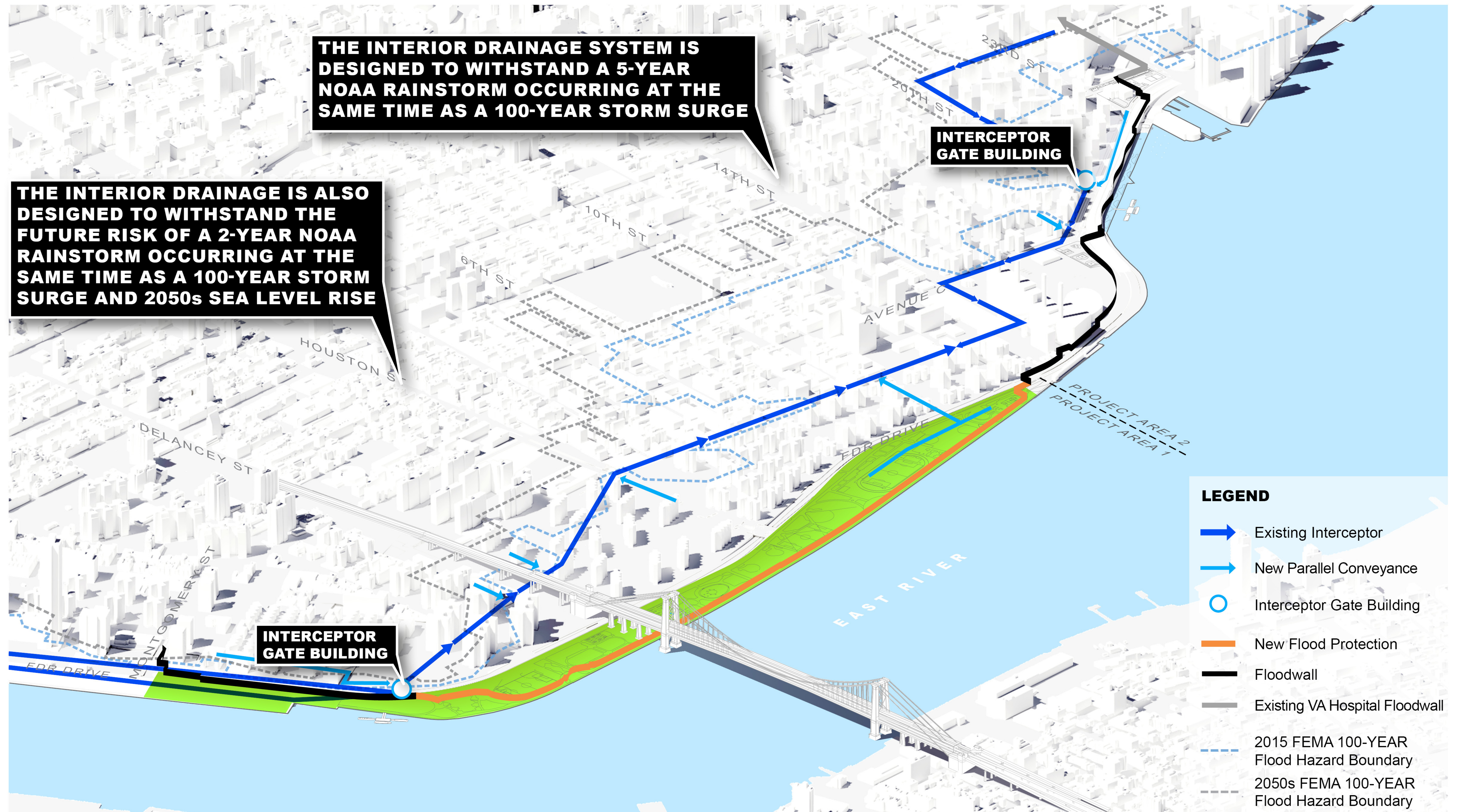


# ENHANCING DRAINAGE INFRASTRUCTURE

## INTERIOR DRAINAGE SYSTEM COMPONENTS AND DESIGN CRITERIA

THE INTERIOR DRAINAGE SYSTEM IS DESIGNED TO WITHSTAND A 5-YEAR NOAA RAINSTORM OCCURRING AT THE SAME TIME AS A 100-YEAR STORM SURGE

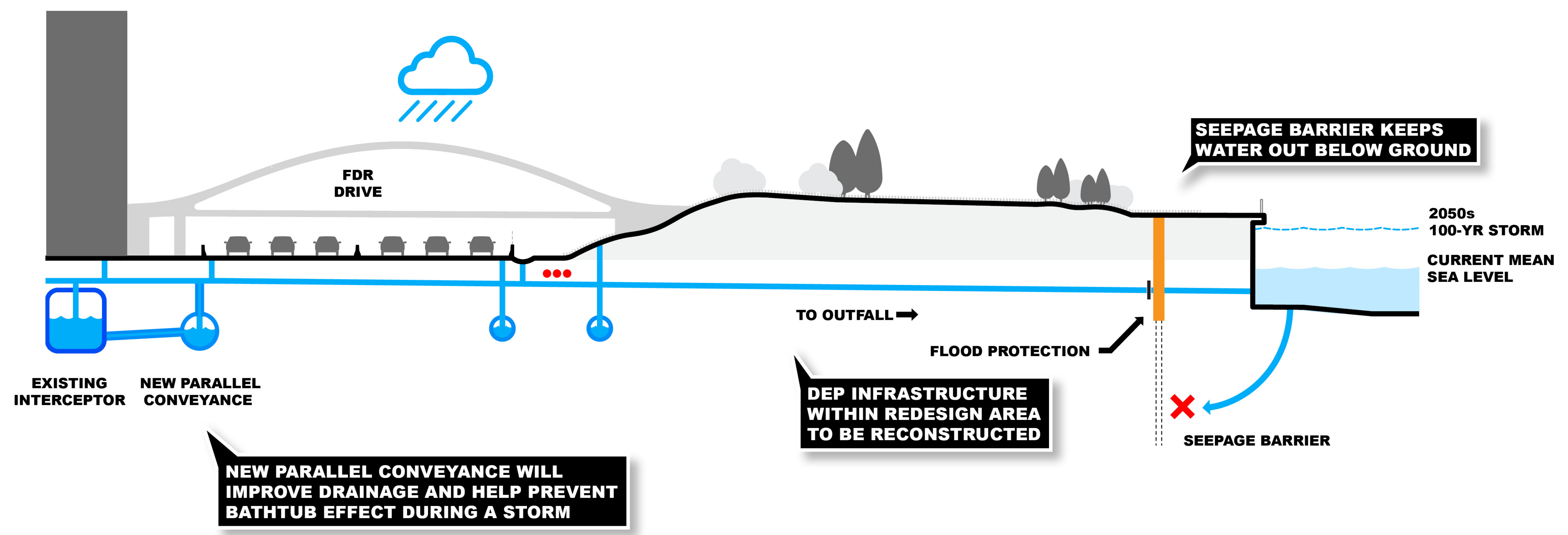
THE INTERIOR DRAINAGE IS ALSO DESIGNED TO WITHSTAND THE FUTURE RISK OF A 2-YEAR NOAA RAINSTORM OCCURRING AT THE SAME TIME AS A 100-YEAR STORM SURGE AND 2050s SEA LEVEL RISE





# 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

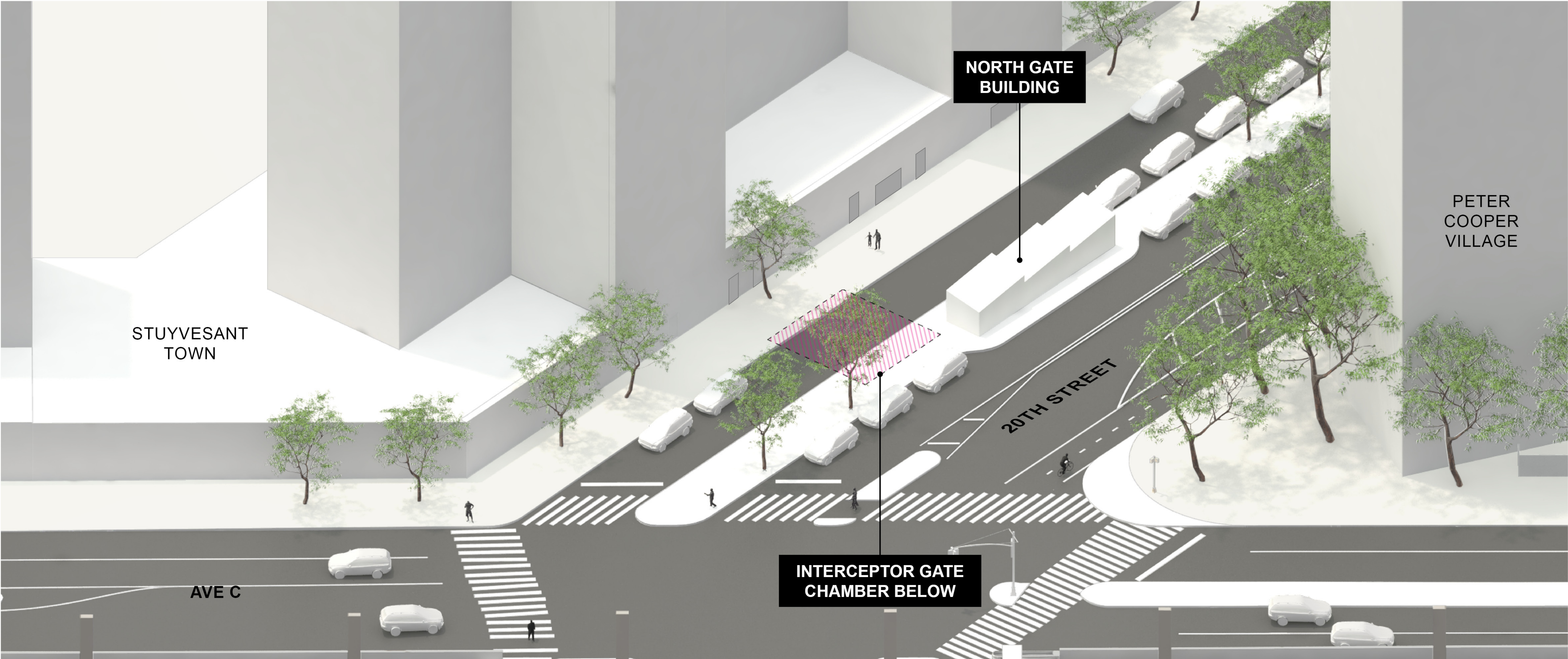
## SOUTH INTERCEPTOR GATE CHAMBER BUILDING





# IMPROVED DRAINAGE

NORTH INTERCEPTOR GATE CHAMBER BUILDING











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

**AREA 2: BARUCH/WALD HOUSES**

**AREA 1: DELANCEY**





**AREA 1: DELANCEY**  
CONCEPTUAL PLAN





**DELANCEY OVERLOOK**  
EXISTING CONDITIONS





**DELANCEY OVERLOOK**  
PREVIOUS DESIGN





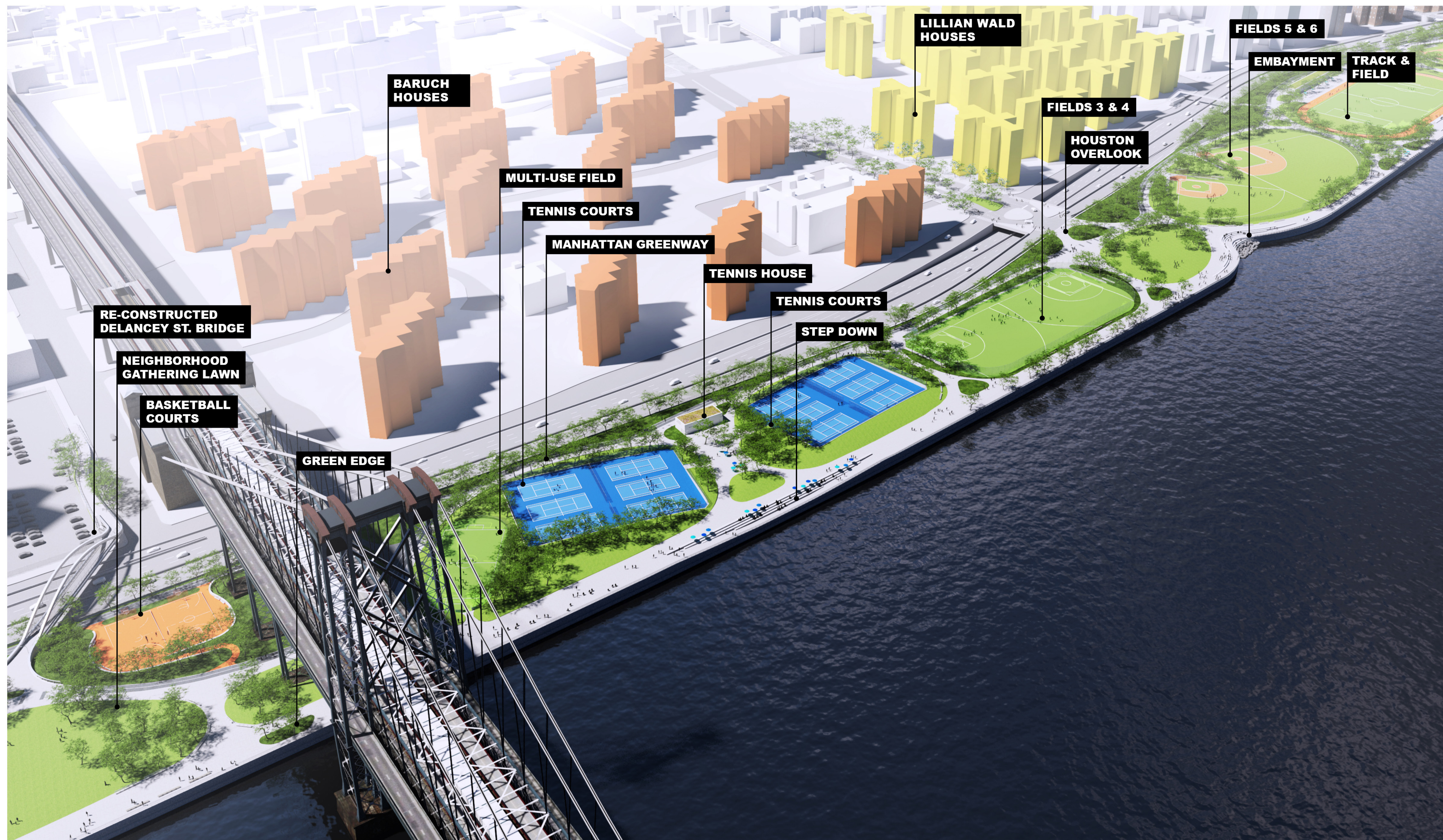
**DELANCEY OVERLOOK**  
CONCEPTUAL DESIGN





**DELANCEY OVERLOOK**  
CONCEPTUAL DESIGN - STORM CONDITIONS





**AREA 2: BARUCH/WALD HOUSES**  
CONCEPTUAL DESIGN





**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





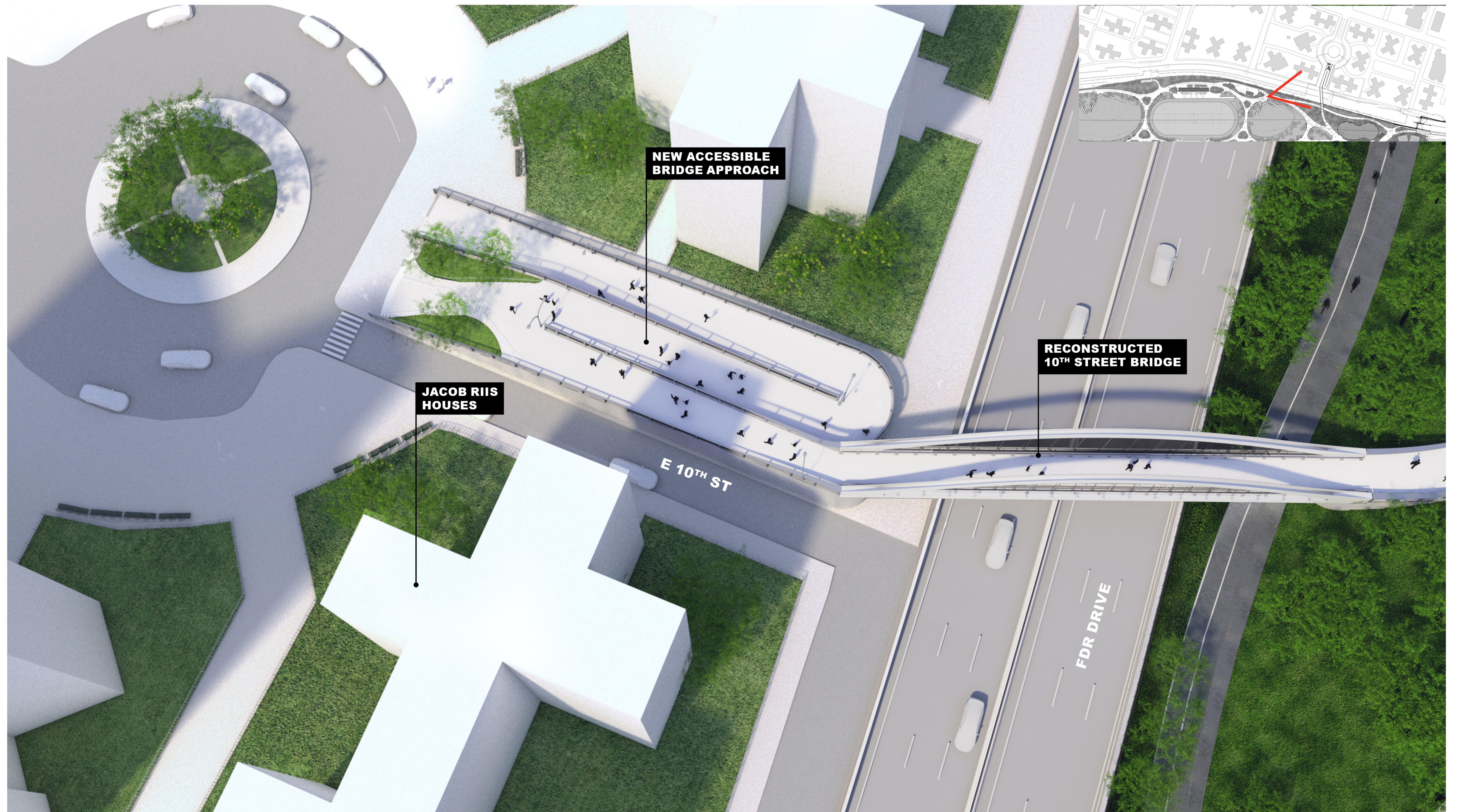
**TRACK & FIELD AREA**  
CONCEPTUAL DESIGN - STORM CONDITIONS





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





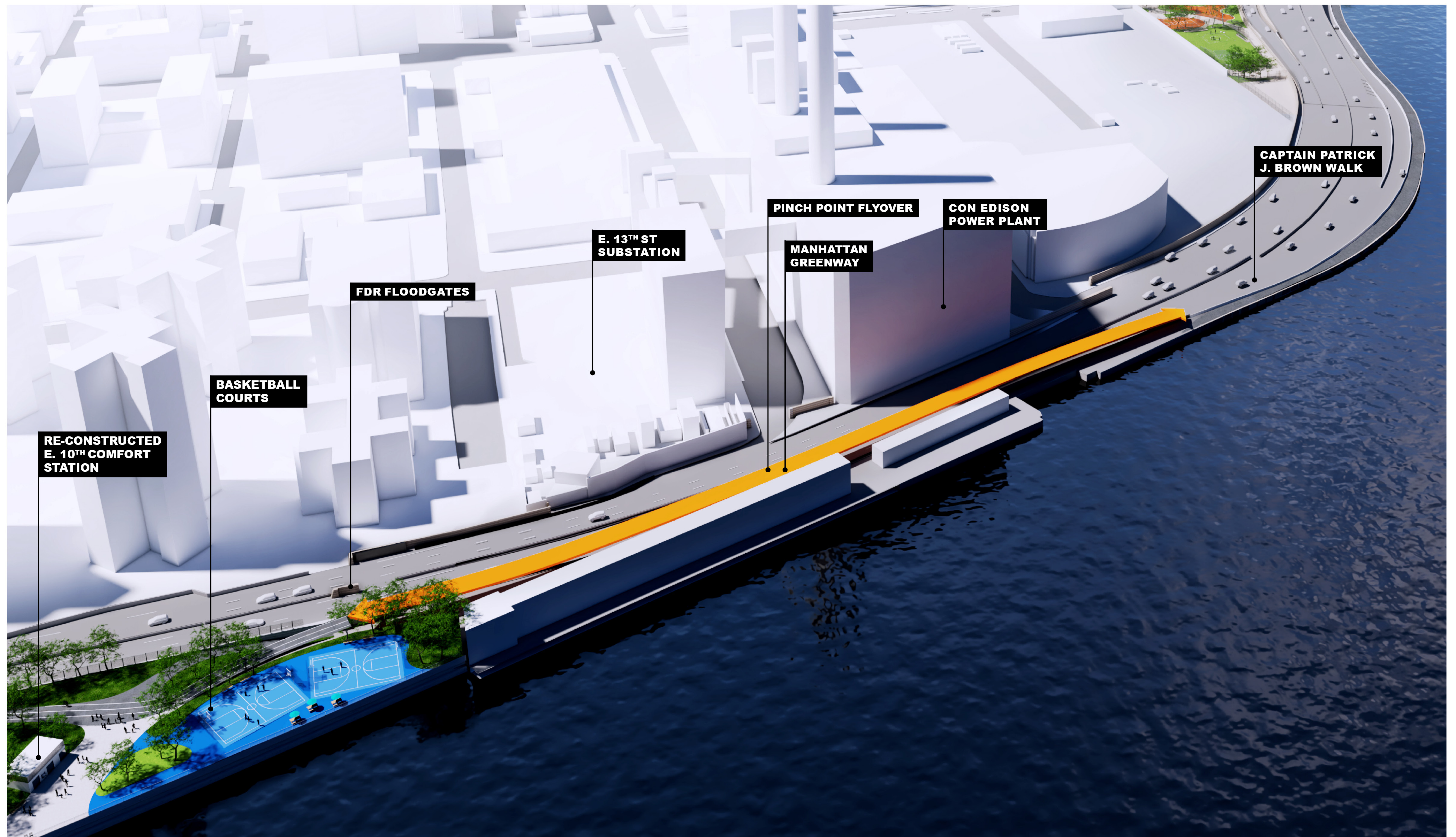
**E 10<sup>TH</sup> STREET BRIDGE**  
CONCEPTUAL DESIGN





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

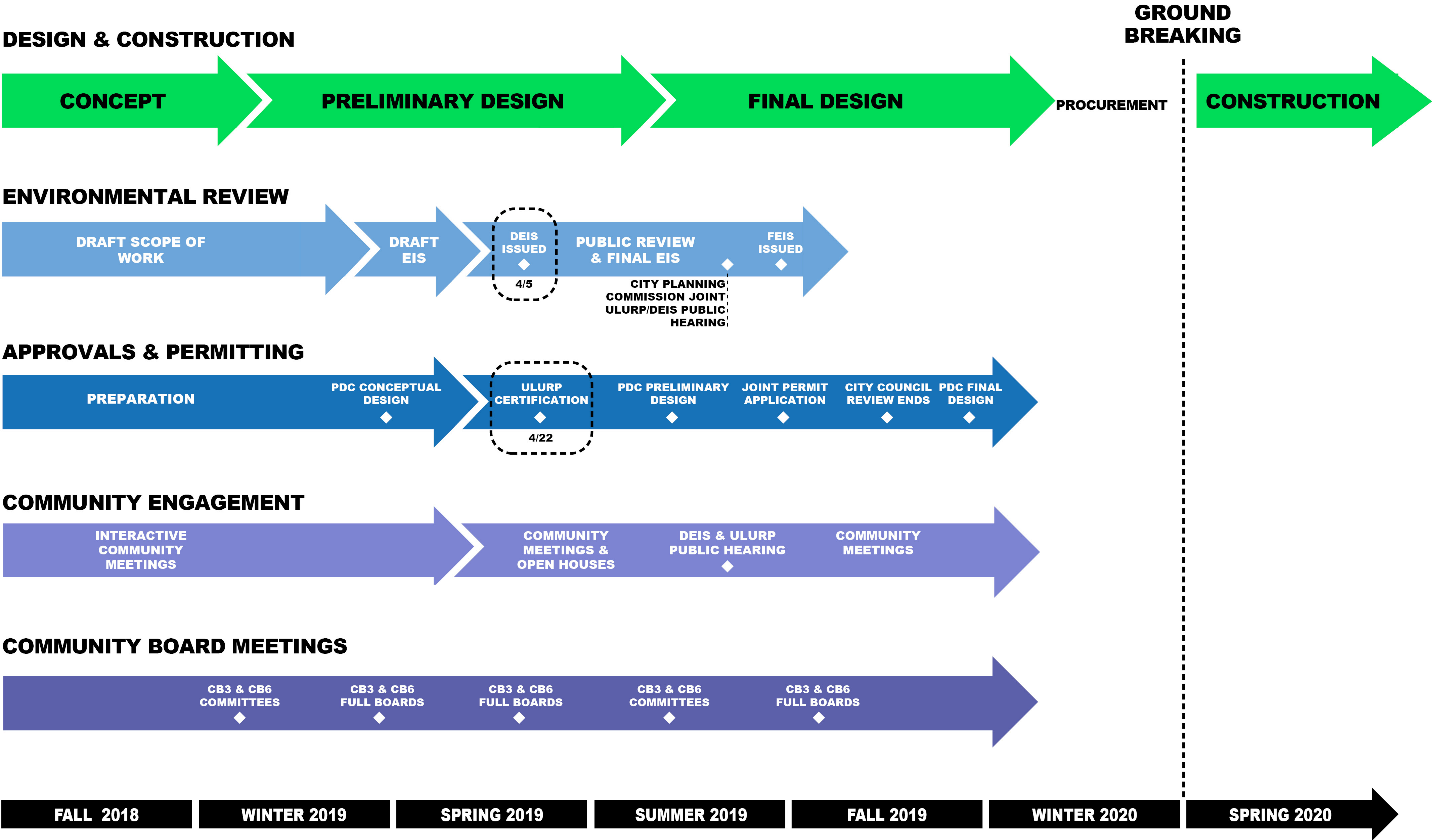




**PINCH POINT FLYOVER BRIDGE**  
 CONCEPTUAL DESIGN



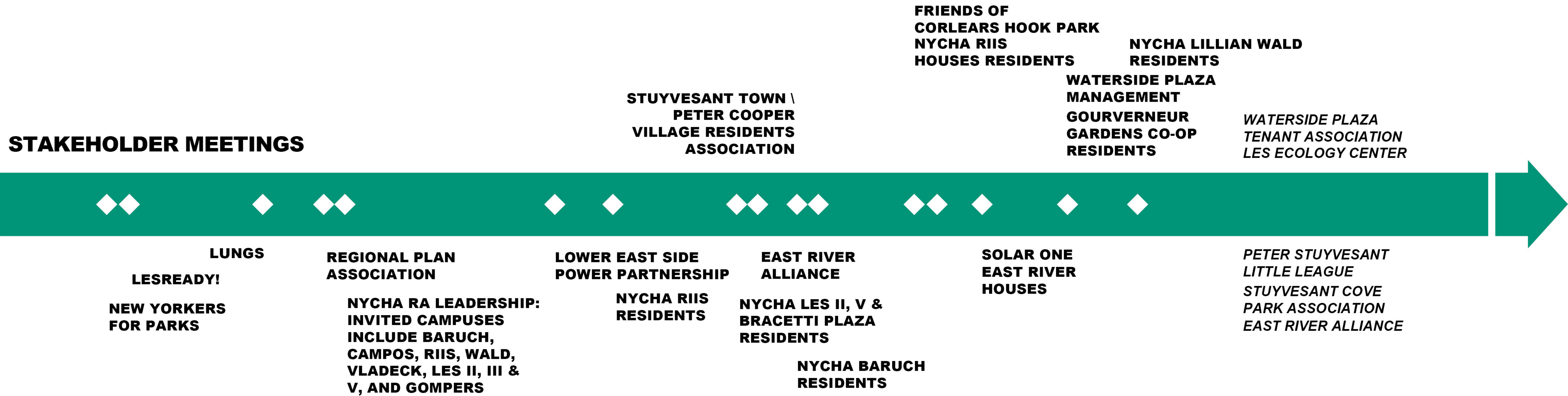
# COMMUNITY ENGAGEMENT





# COMMUNITY ENGAGEMENT SCHEDULE

## STAKEHOLDER MEETINGS



## COMMUNITY BOARD & COUNCIL MEMBER MEETINGS



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

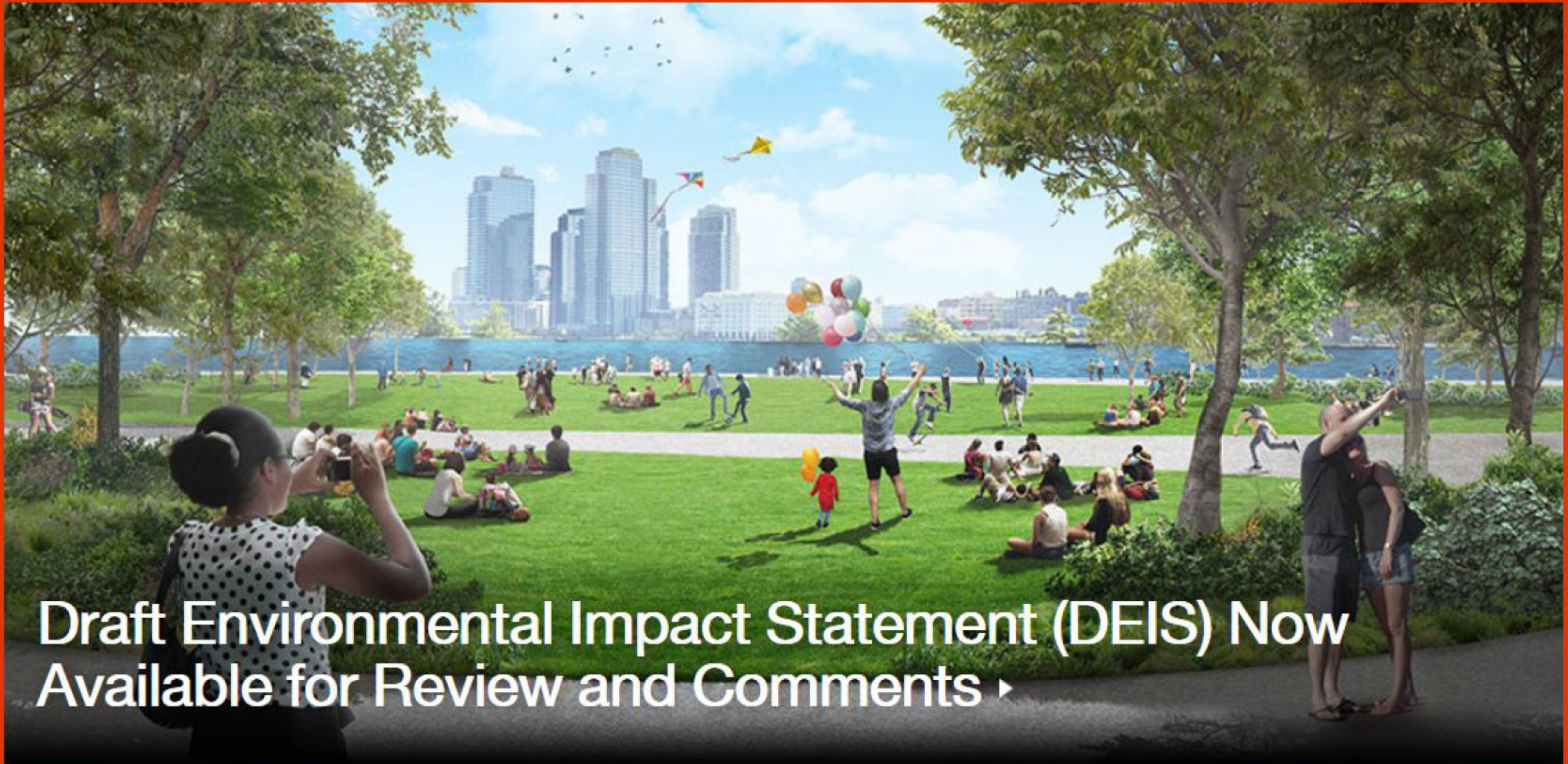
Background

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.

Since early visioning, the City has been working hand in hand with community

Partners



Department of Design and Construction

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