

East Side Coastal Resiliency Preliminary Design Update

Community Board 3 Review

Parks Committee: March 15, 2018

Full Board: March 27, 2018

PRESENTATION CONTENTS

A. SITE STRATEGY

B. SITE DESIGN

C. SCHEDULE AND NEXT STEPS

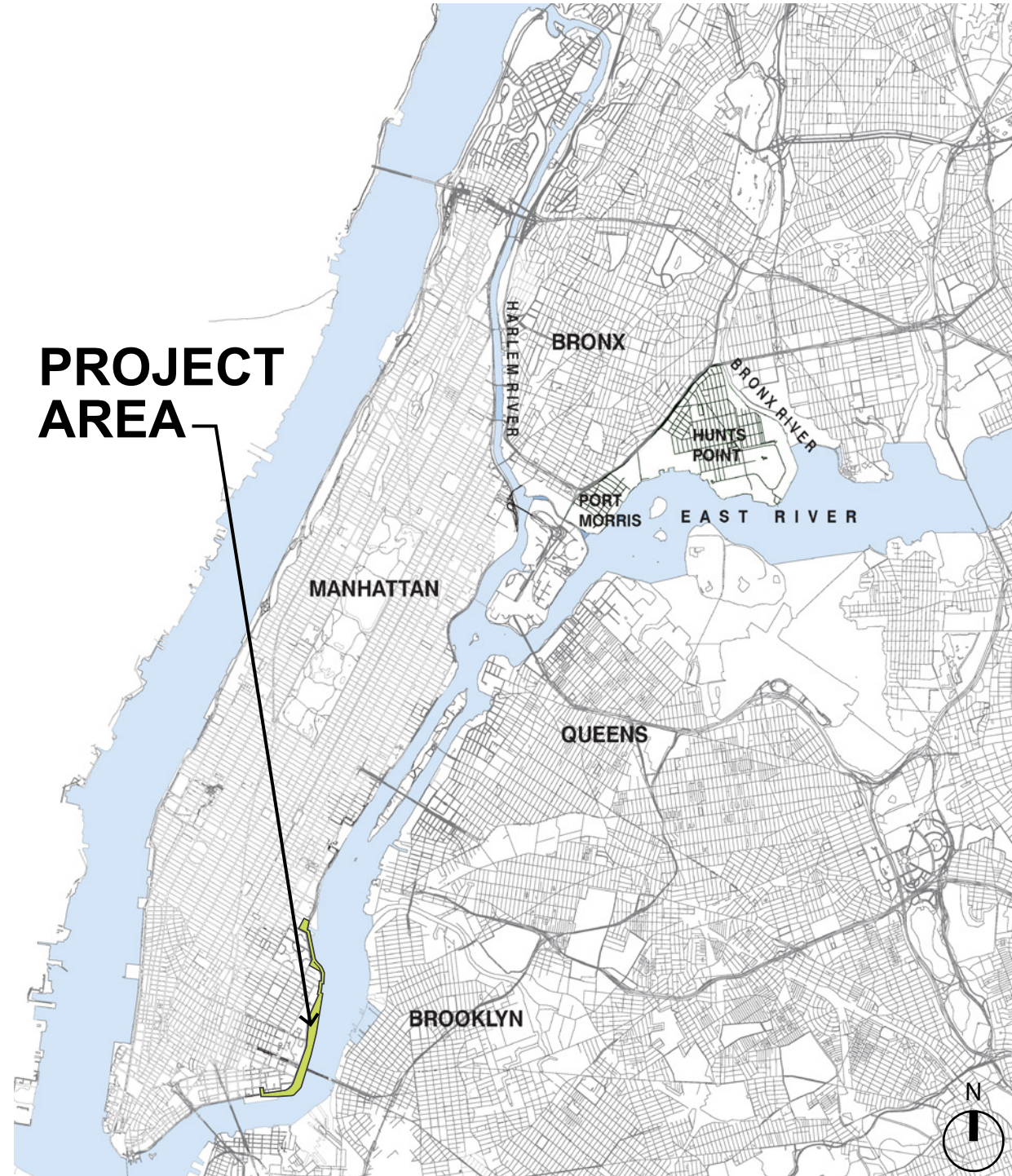
PRESENTATION CONTENTS

A. SITE STRATEGY

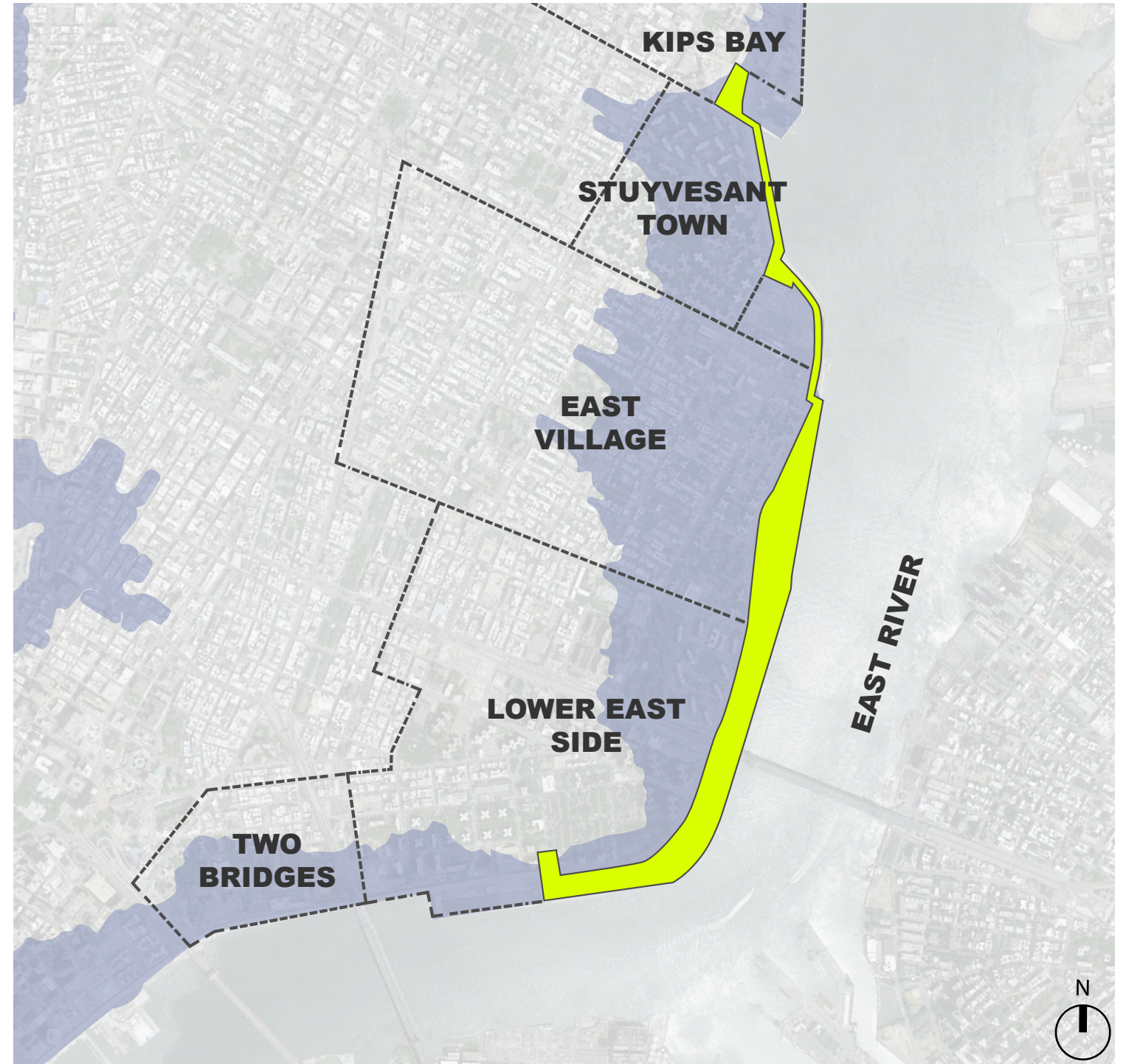
B. SITE DESIGN

C. SCHEDULE AND NEXT STEPS

BOROUGH CONTEXT

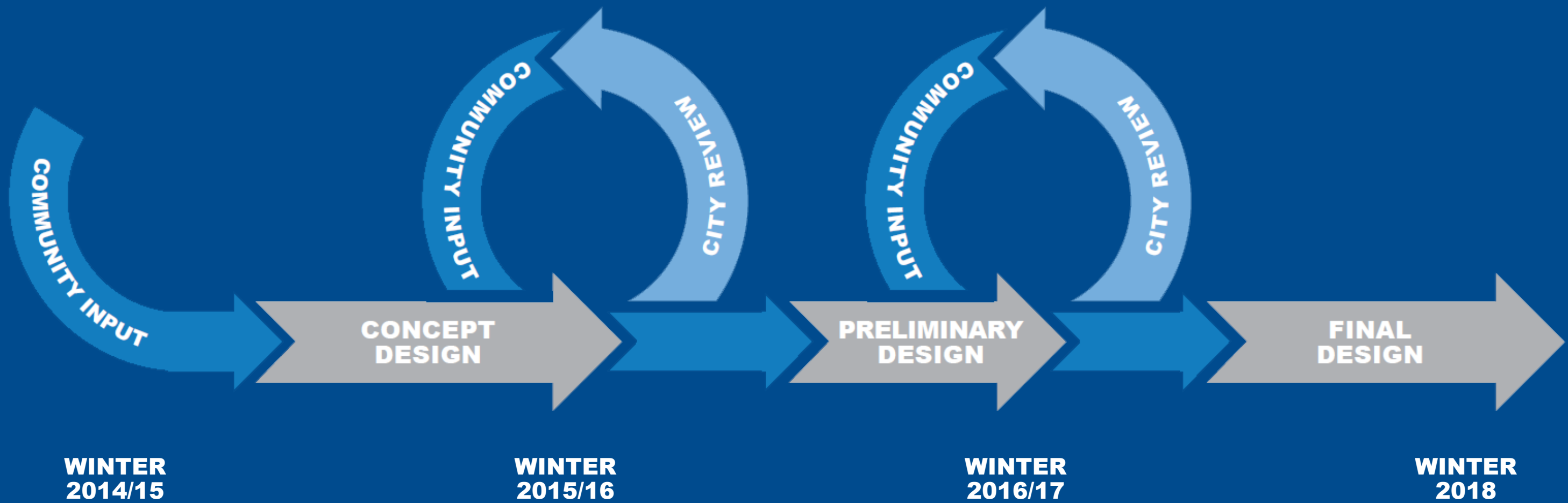


NEIGHBORHOOD CONTEXT

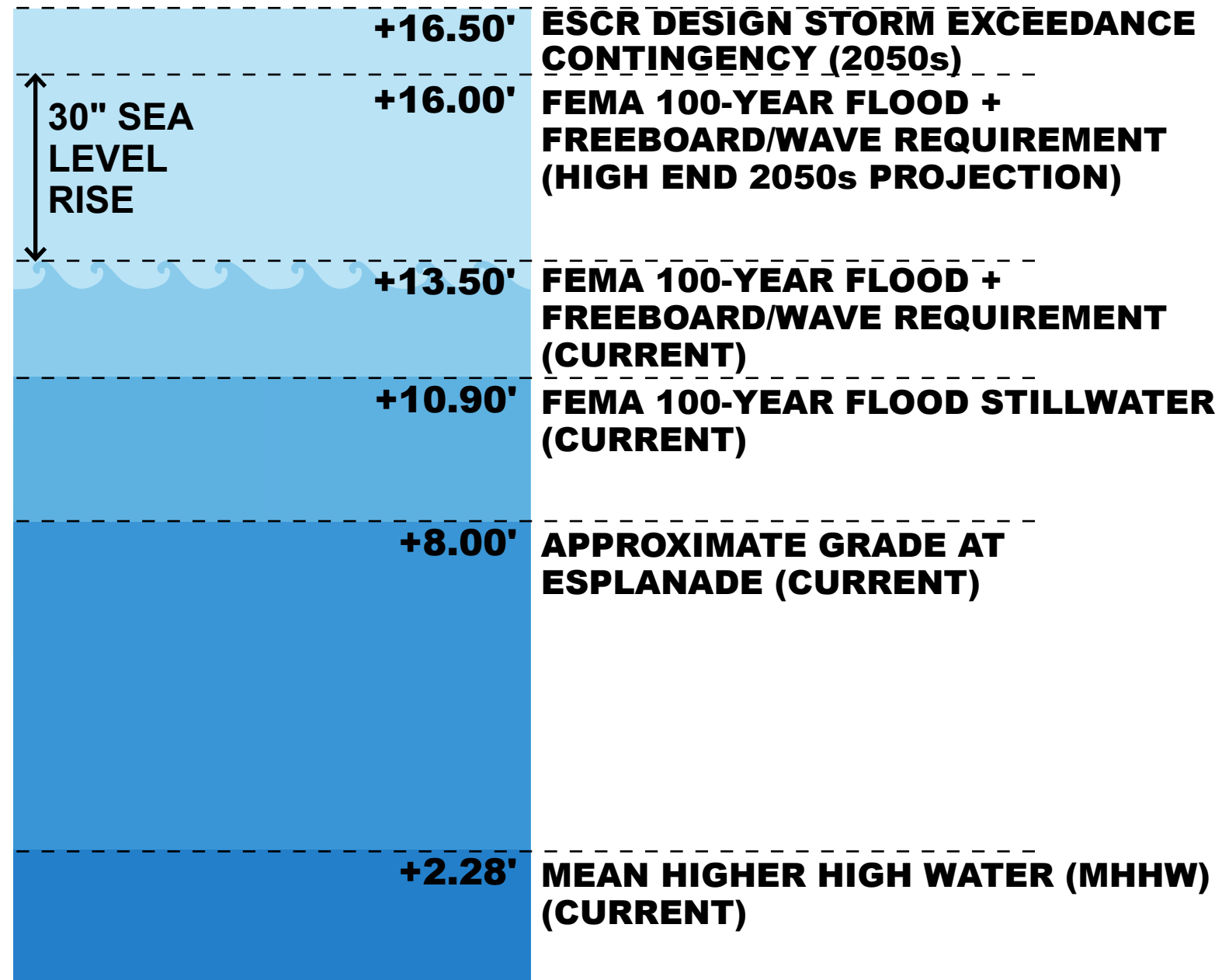


- Provide a reliable, integrated flood protection system; minimize use of closure structures
- Improve waterfront open spaces and access
- Respond quickly to the urgent need for increased flood protection and resiliency
- Achieve implementation milestones and project funding allocations as established by HUD

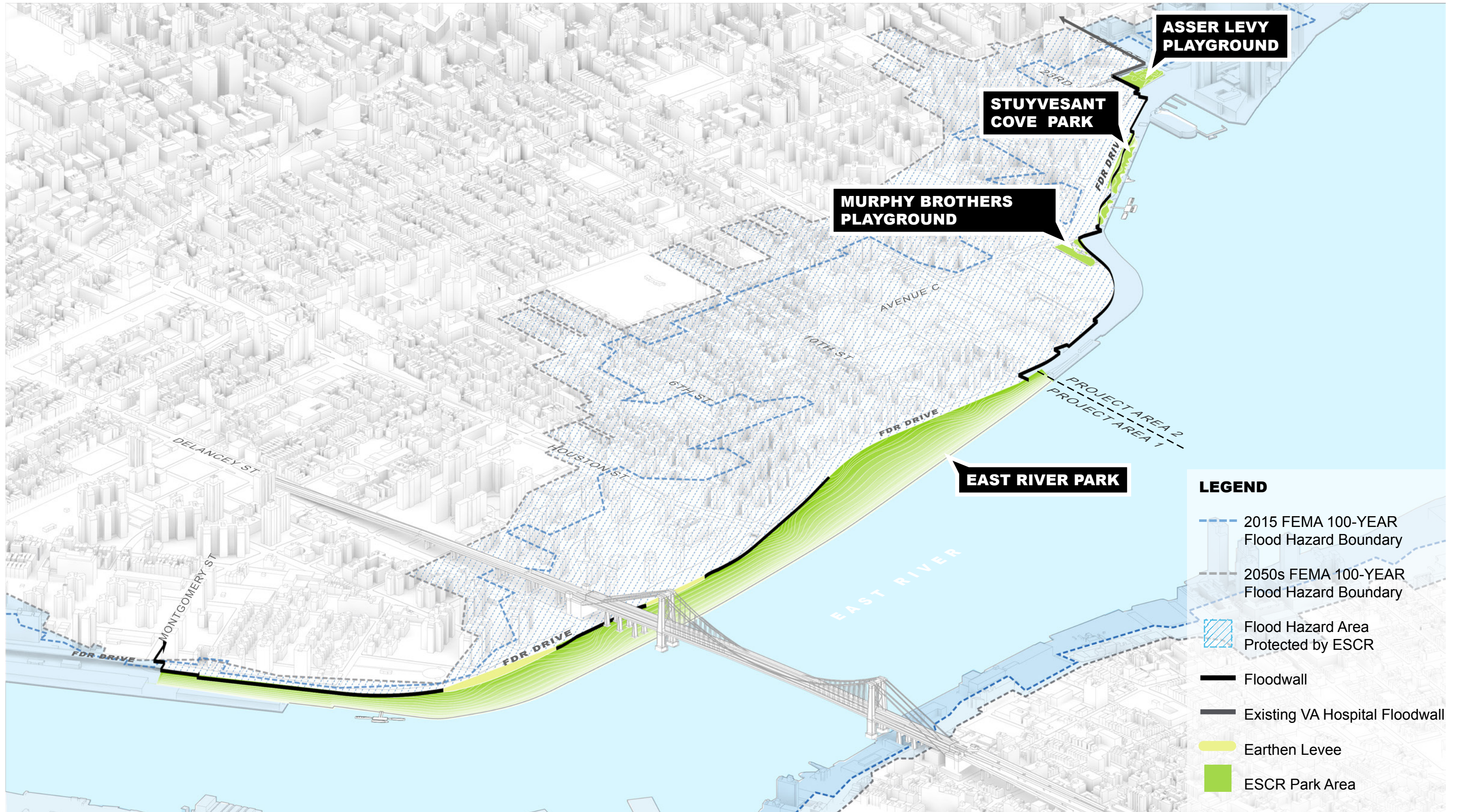


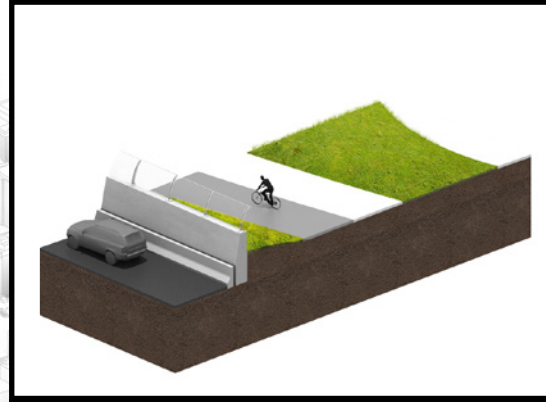


**HUD FUNDING REQUIREMENT:
THE SYSTEM MUST PURSUE
FEMA ACCREDITATION WITH
MINIMUM SYSTEM ELEVATION AT
CURRENT FEMA 100-YEAR STORM
ELEVATION + FREEBOARD**

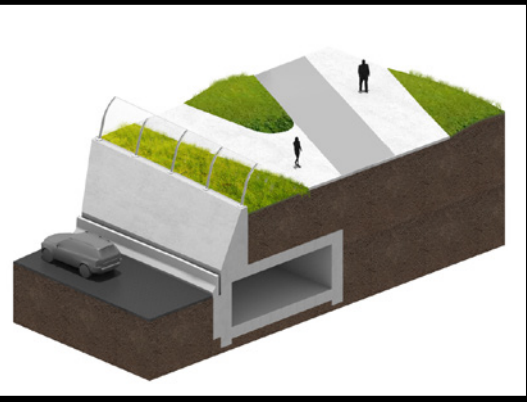


NOTE: ALL ELEVATIONS SHOWN IN NAVD88

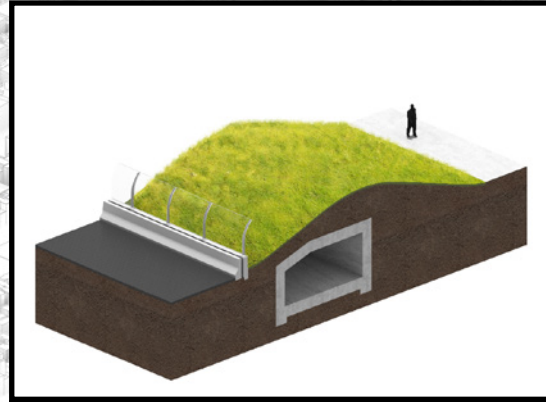




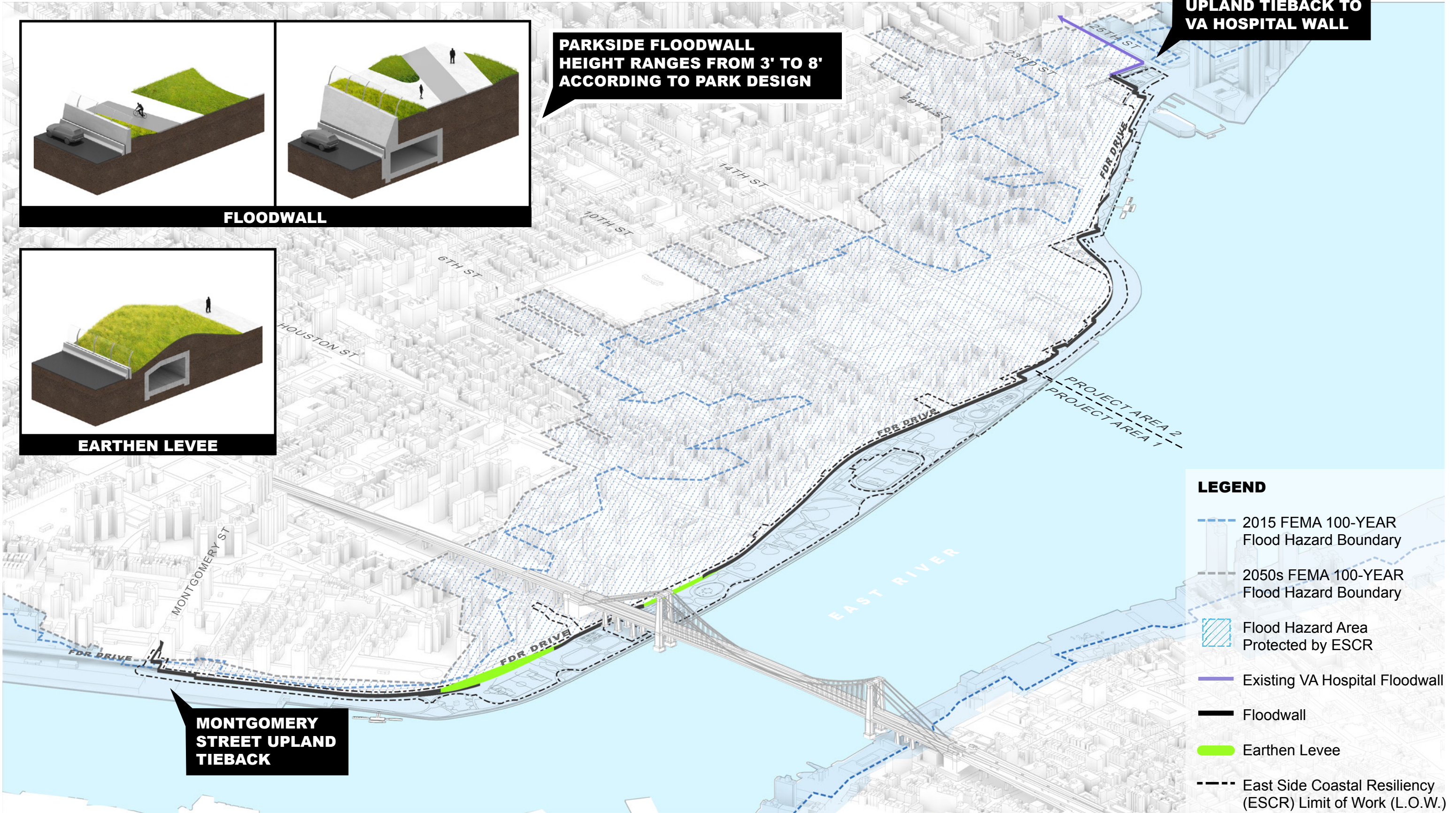
FLOODWALL



PARKSIDE FLOODWALL HEIGHT RANGES FROM 3' TO 8' ACCORDING TO PARK DESIGN



EARTHEN LEVEE



LEGEND

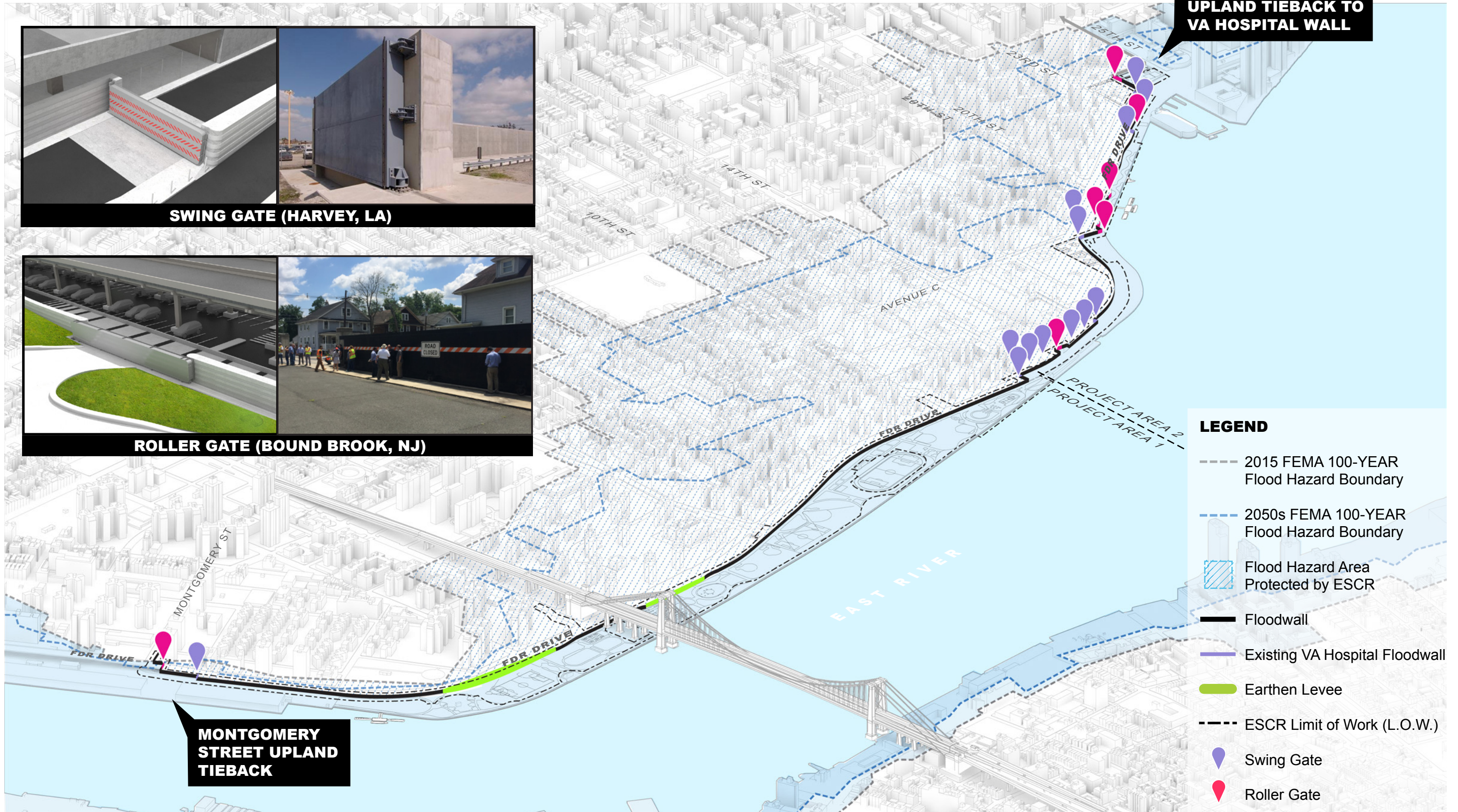
- 2015 FEMA 100-YEAR Flood Hazard Boundary
- 2050s FEMA 100-YEAR Flood Hazard Boundary
- Flood Hazard Area Protected by ESCR
- Existing VA Hospital Floodwall
- Floodwall
- Earthen Levee
- East Side Coastal Resiliency (ESCR) Limit of Work (L.O.W.)



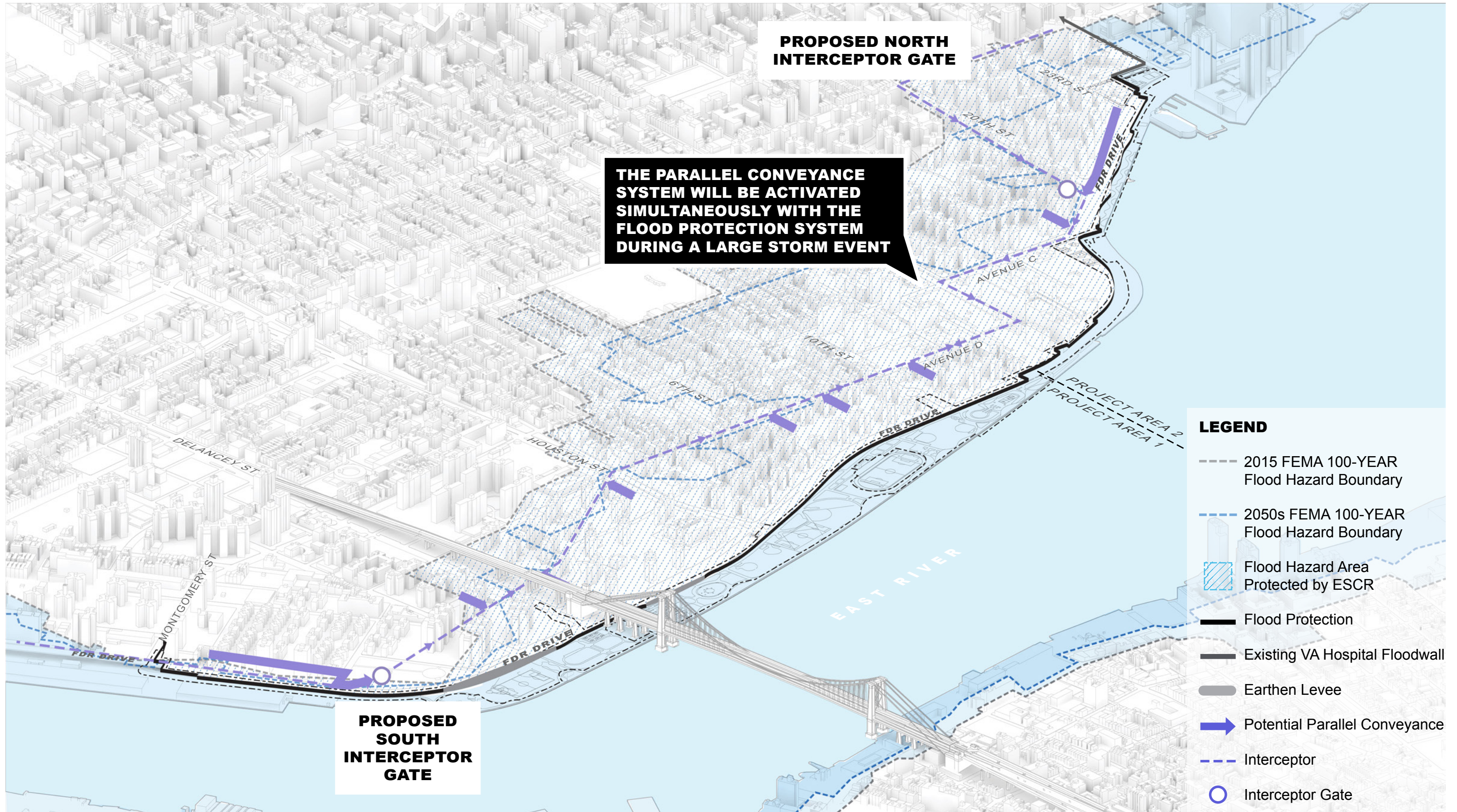
SWING GATE (HARVEY, LA)

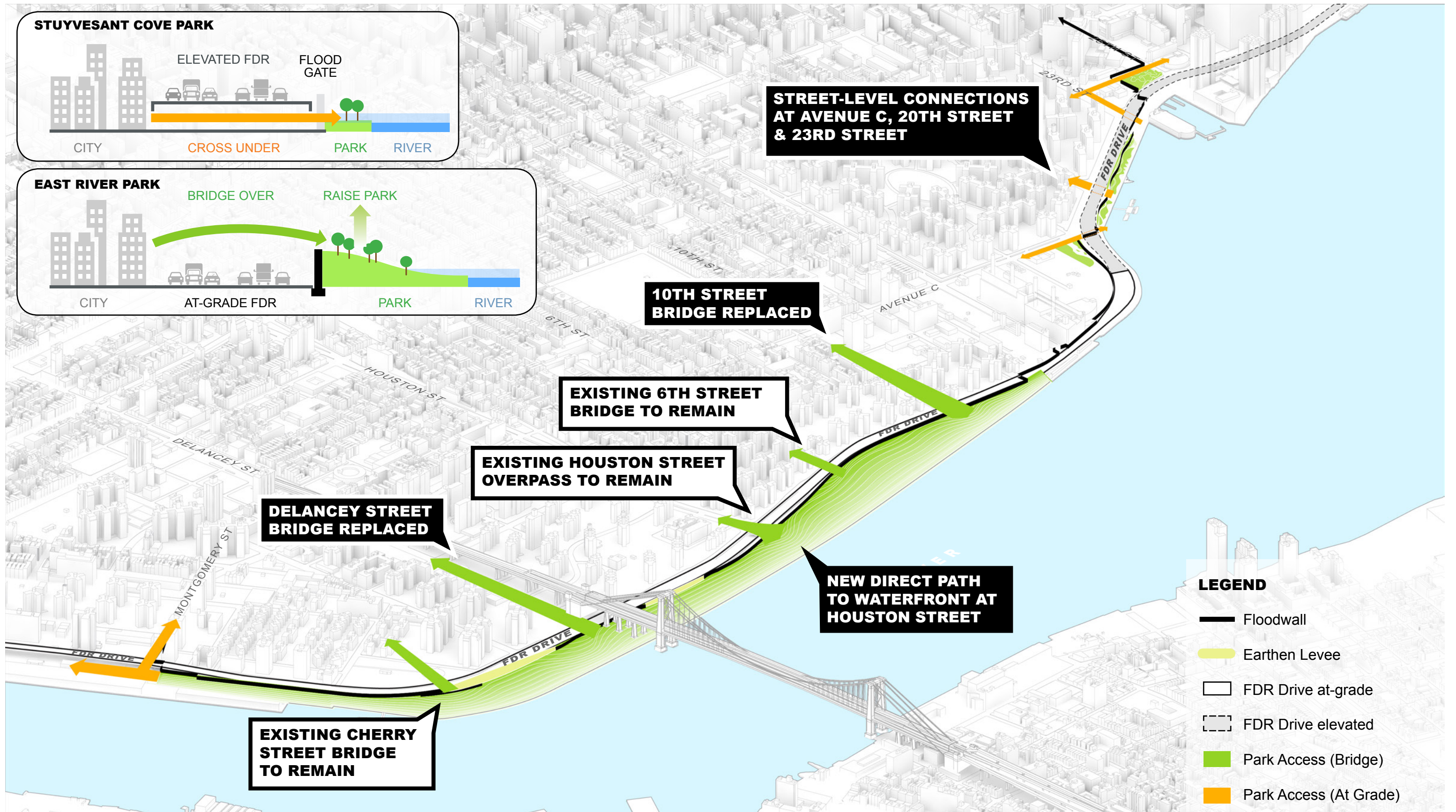


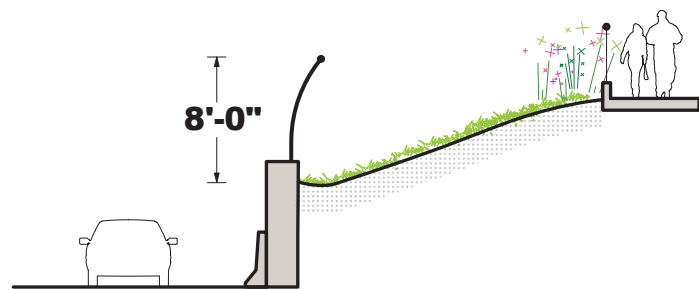
ROLLER GATE (BOUND BROOK, NJ)



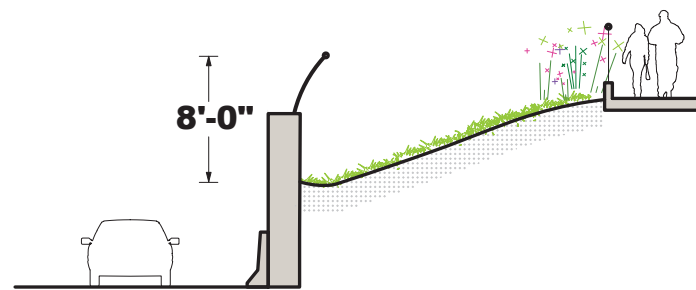
- LEGEND**
- 2015 FEMA 100-YEAR Flood Hazard Boundary
 - - - 2050s FEMA 100-YEAR Flood Hazard Boundary
 - ▨ Flood Hazard Area Protected by ESCR
 - Floodwall
 - Existing VA Hospital Floodwall
 - Earthen Levee
 - - - ESCR Limit of Work (L.O.W.)
 - 📍 Swing Gate
 - 📍 Roller Gate



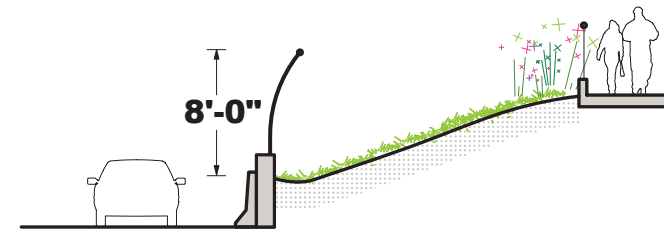




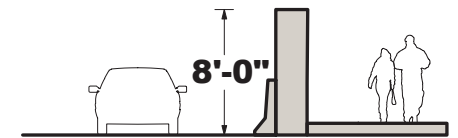
LOW WALL + HIGH FENCE



HIGH WALL + LOW FENCE



**RETAINING WALL + FENCE
(AT LEVEE)**



NO FENCE



ELEVATION MARKER

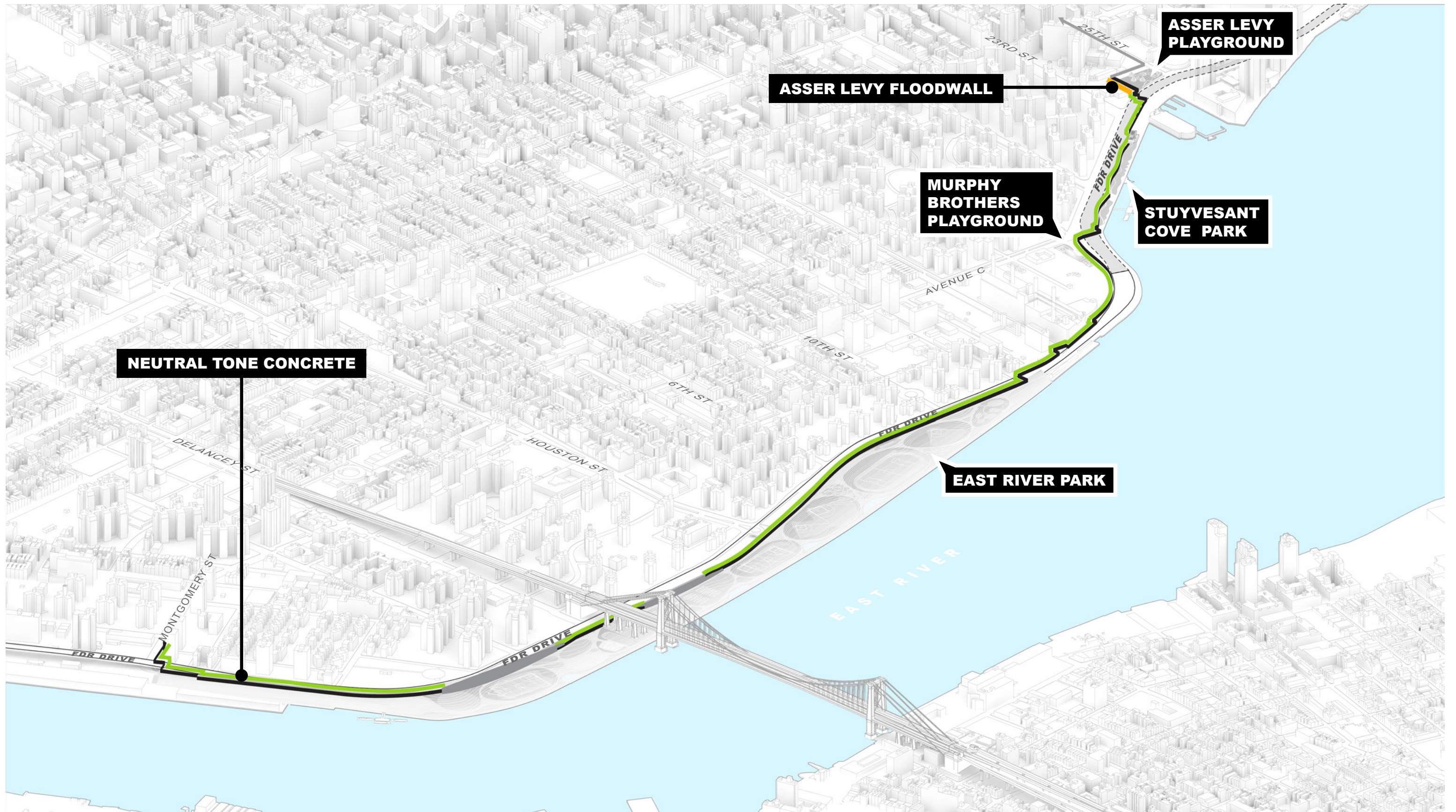
The floodwall finish responds to the overall project intent by registering elevation markers. Water Level Meter, Chicago, IL

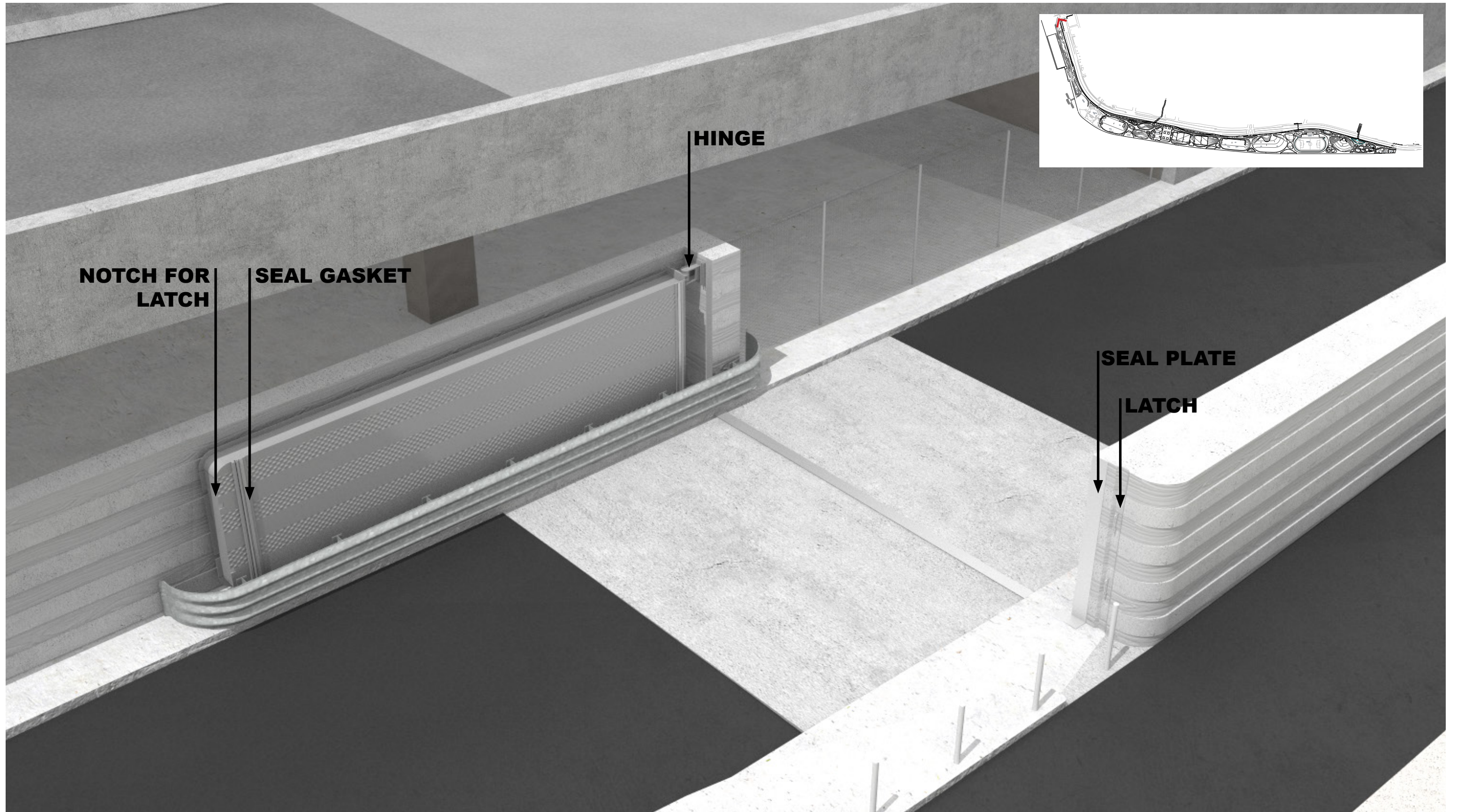


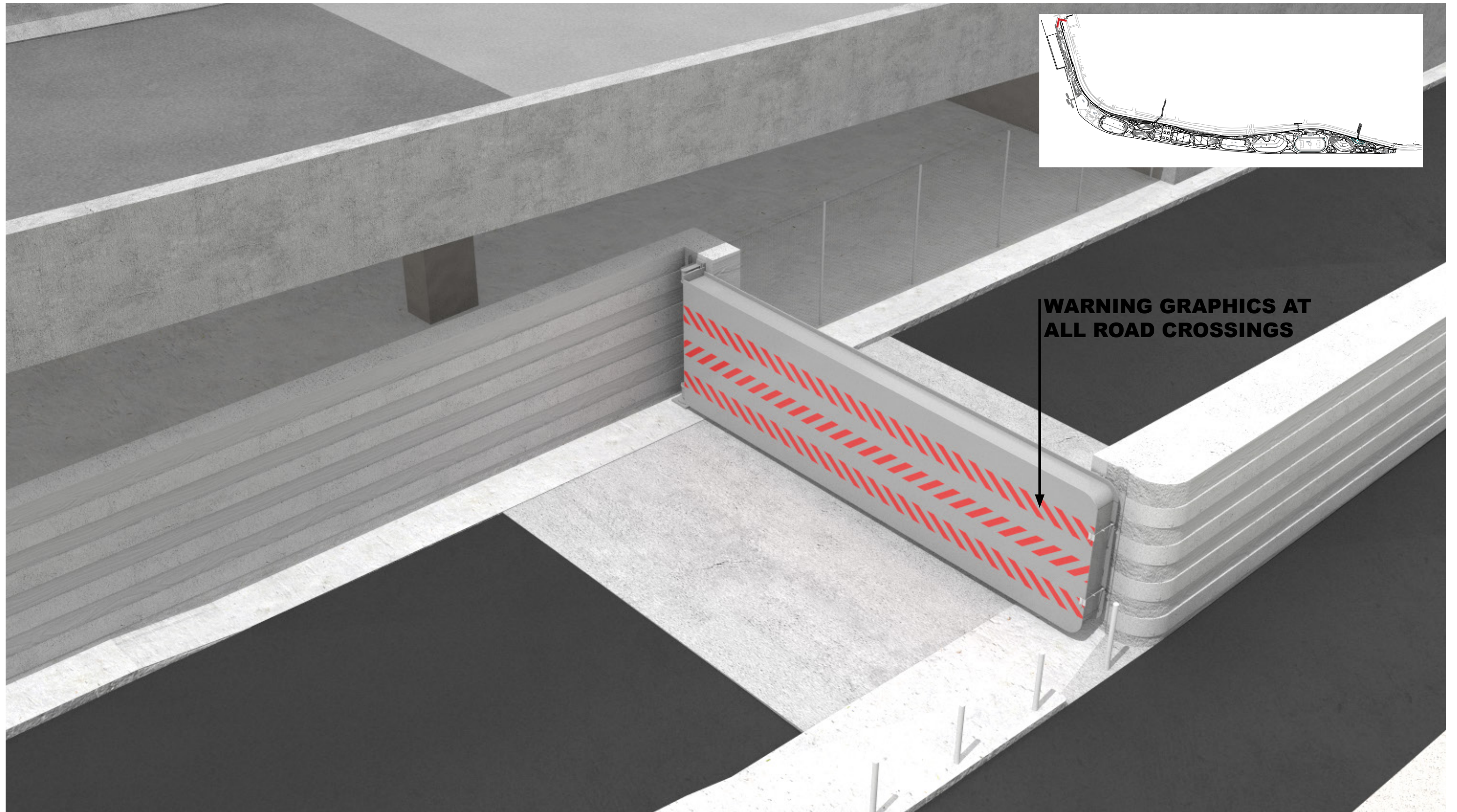
INFORMATION

The wall texture expresses each foot of wall height. At select locations, such as entry locations and bridge abutments, elevation letterforms are recessed into the wall face.

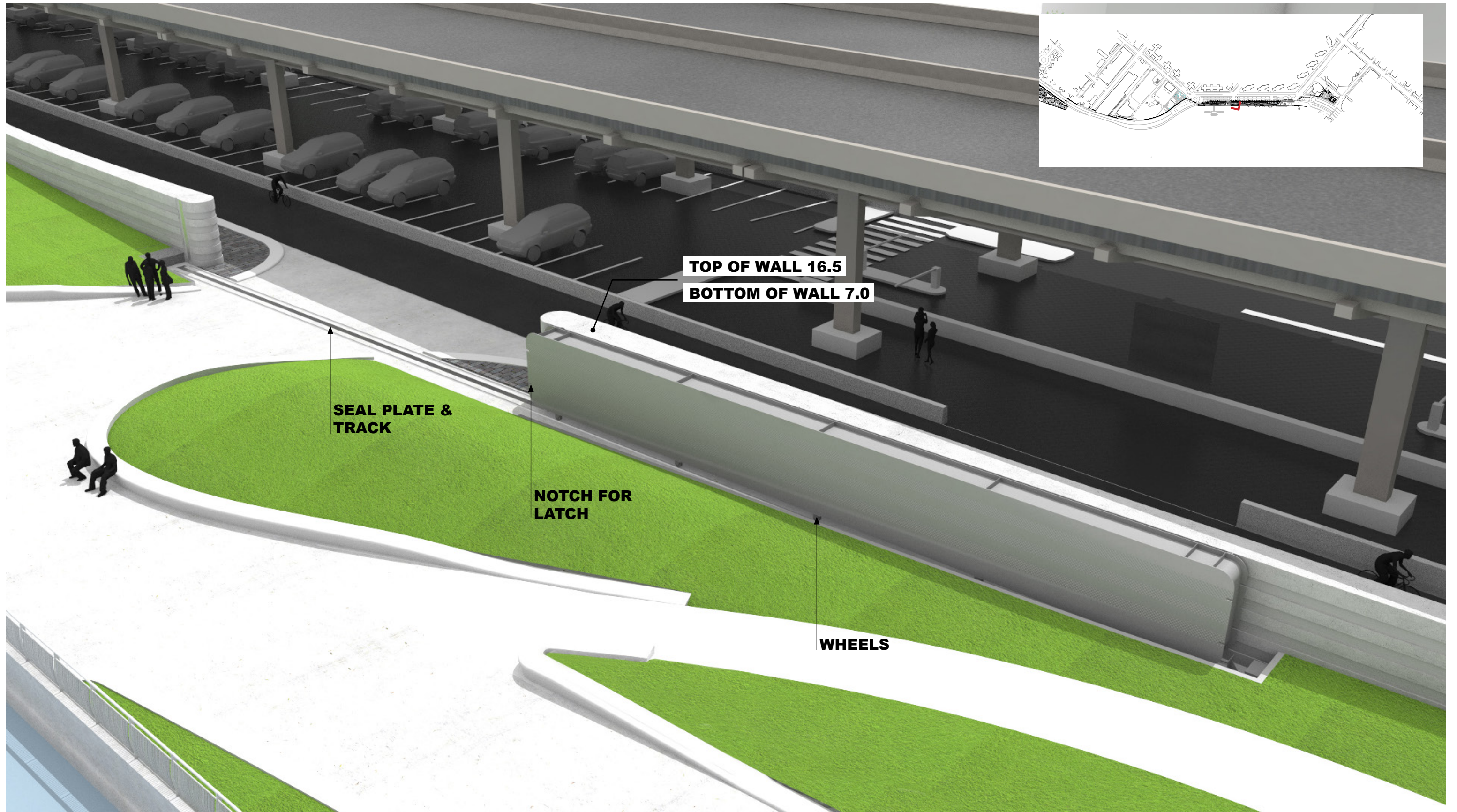


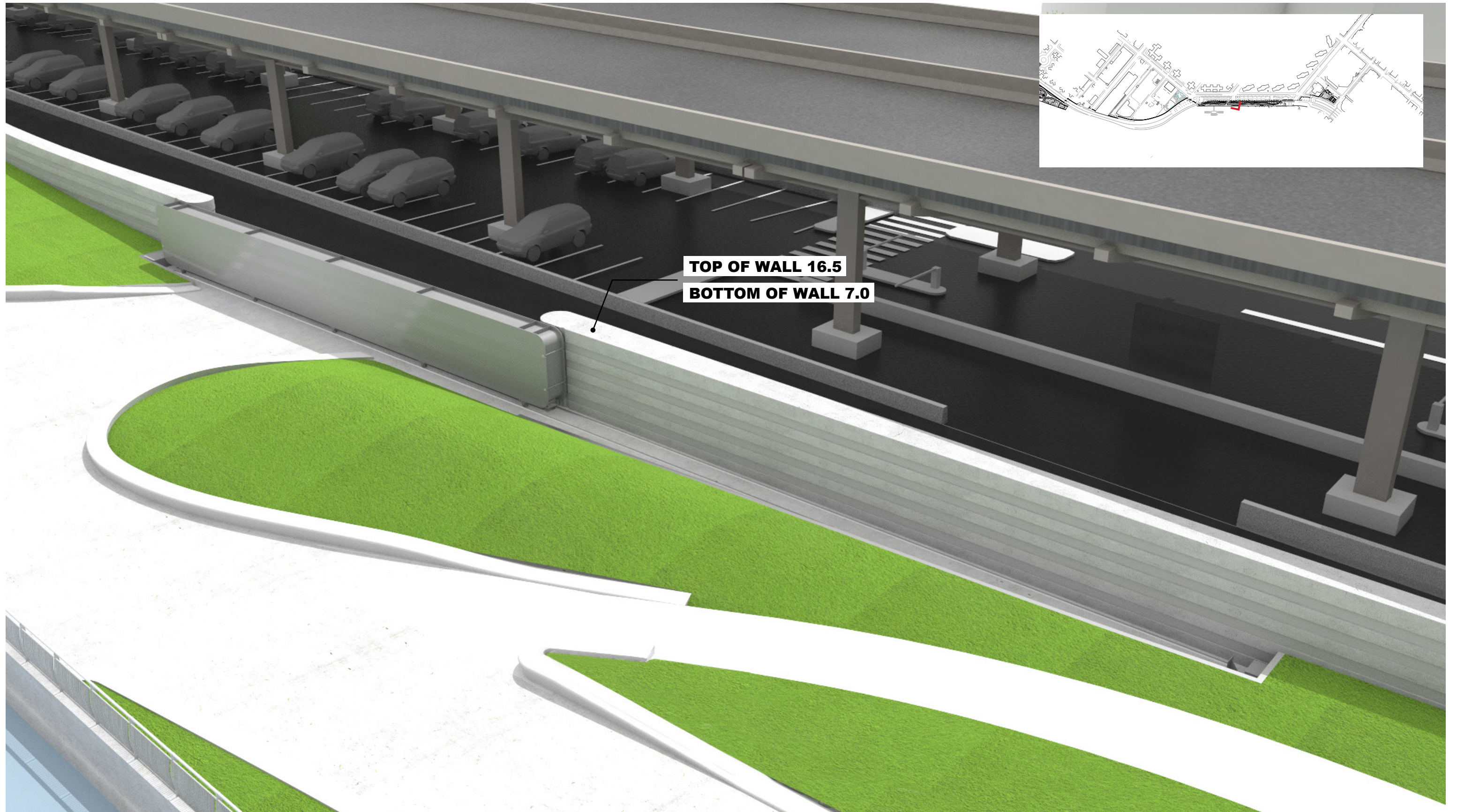






WARNING GRAPHICS AT ALL ROAD CROSSINGS



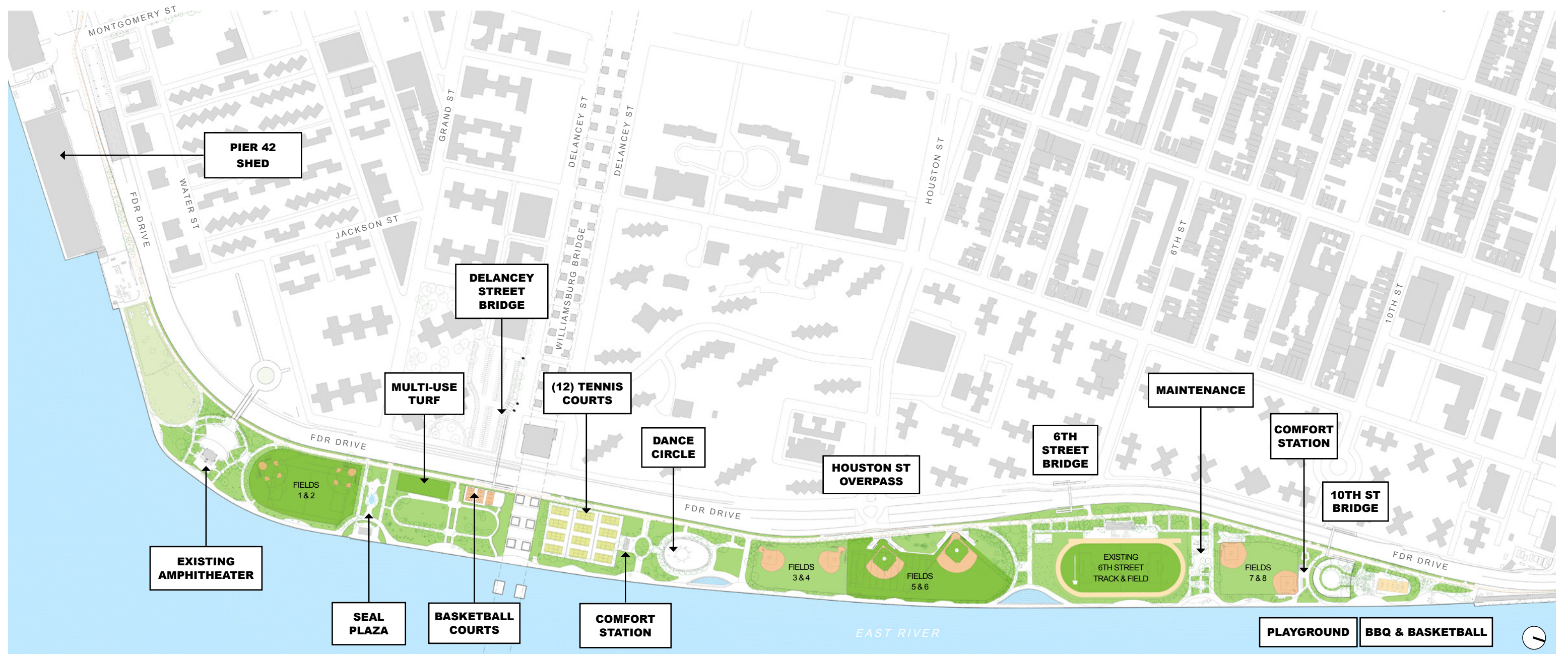


COMMUNITY BOARD PROJECT UPDATES

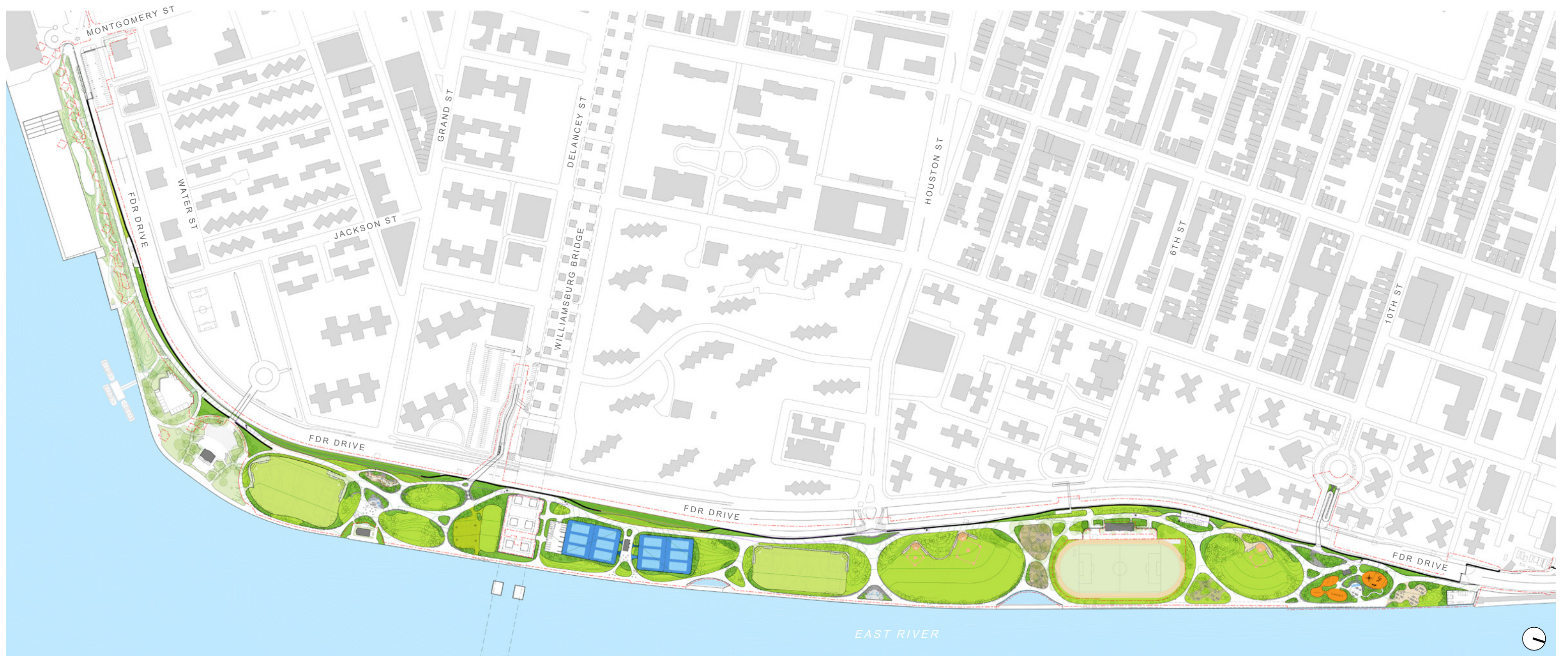
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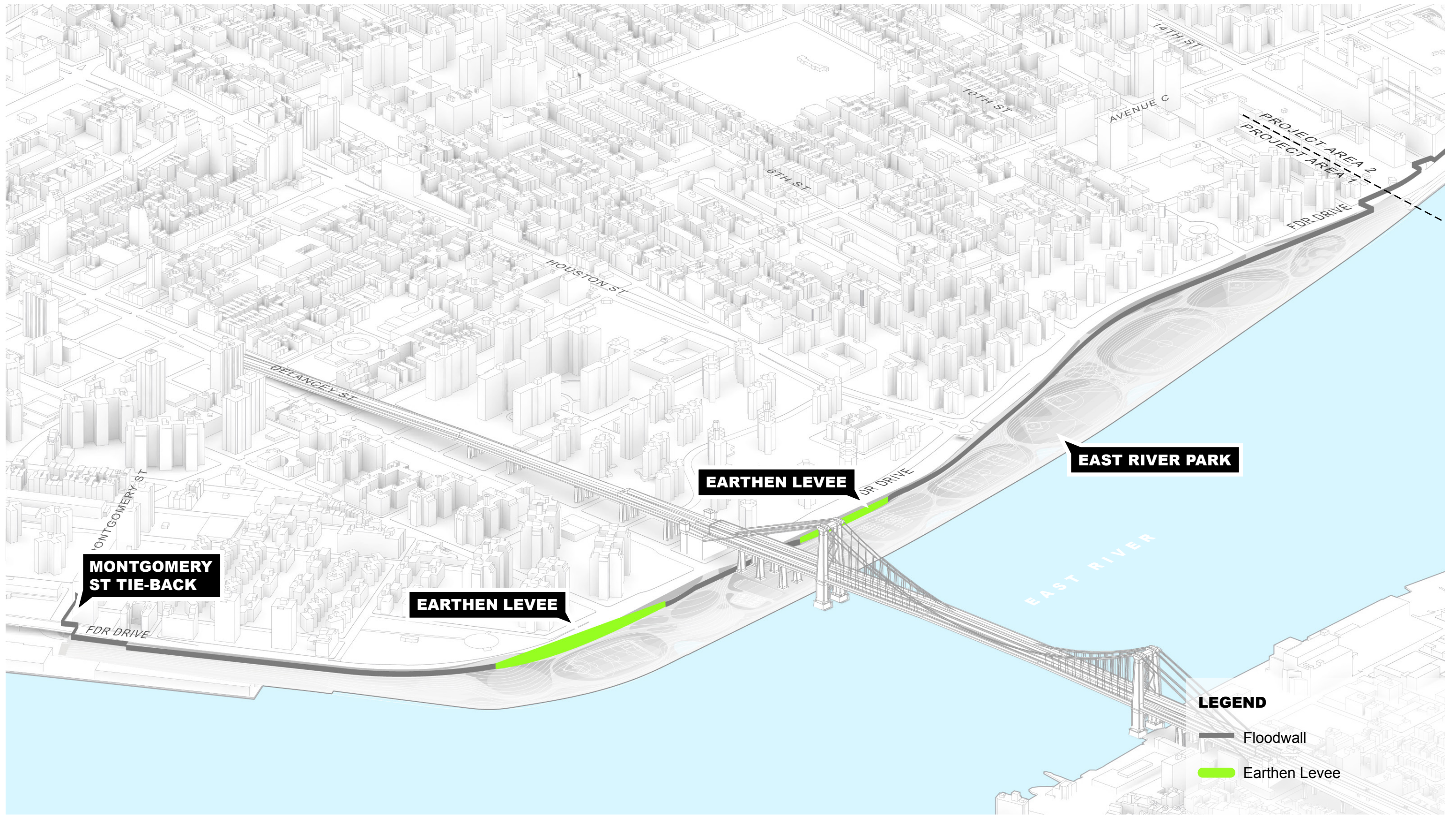
B. SITE DESIGN

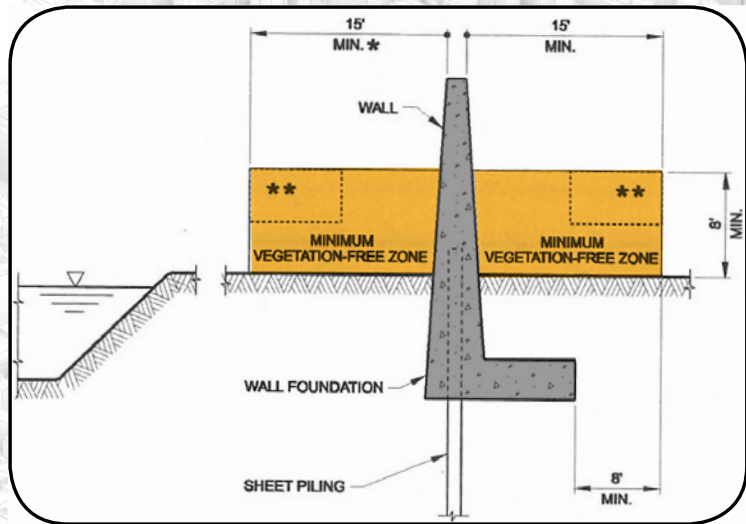
C. SCHEDULE AND NEXT STEPS



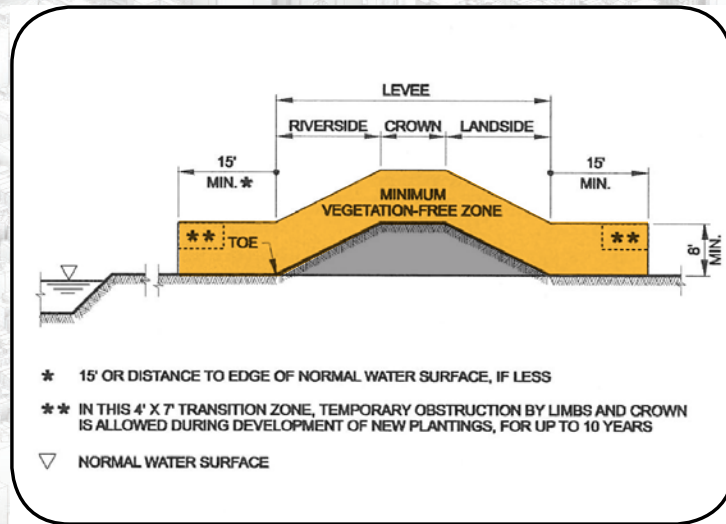








FLOODWALL



LEVEE

* 15' OR DISTANCE TO EDGE OF NORMAL WATER SURFACE, IF LESS
 ** IN THIS 4' X 7' TRANSITION ZONE, TEMPORARY OBSTRUCTION BY LIMBS AND CROWN IS ALLOWED DURING DEVELOPMENT OF NEW PLANTINGS, FOR UP TO 10 YEARS
 ▽ NORMAL WATER SURFACE

NO TREES, SHRUBS, OR WOODY VEGETATION IS ALLOWED WITHIN THE "VEGETATION-FREE" ZONE

PLANTING RESTRICTIONS KEEP FLOOD PROTECTION INTACT AND VISIBLE FOR INSPECTION

- LEGEND**
- Floodwall
 - █ Levee
 - ▨ Flood Protection Planting Zone

FLOOD PROTECTION ZONES



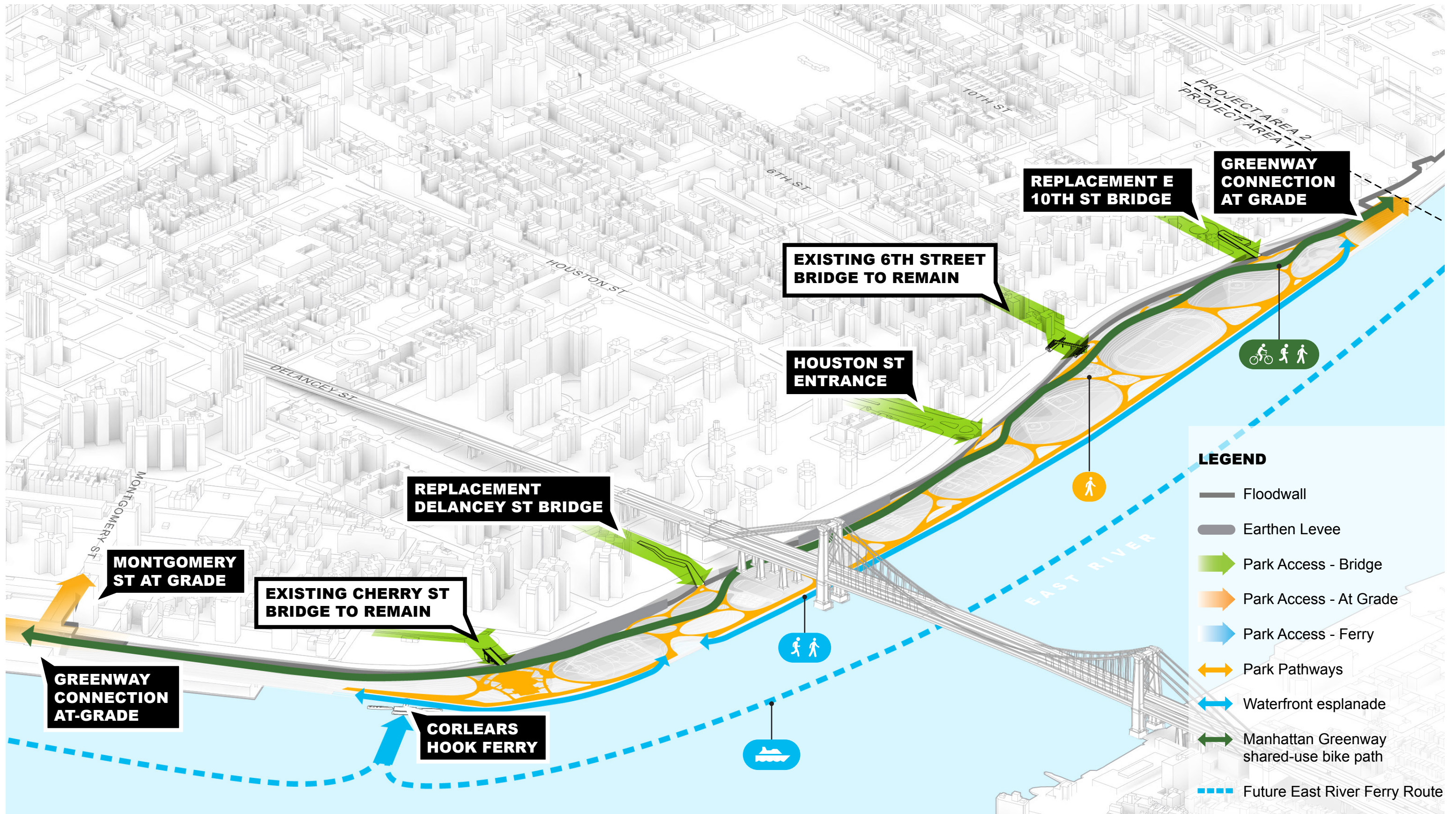
LOW CREEPING FESCUES PROVIDE DENSE COVERAGE TO PREVENT EROSION



TALL GRASS ROOTS HOLD SOILS, PROVIDE TEXTURE & SEASONAL INTEREST

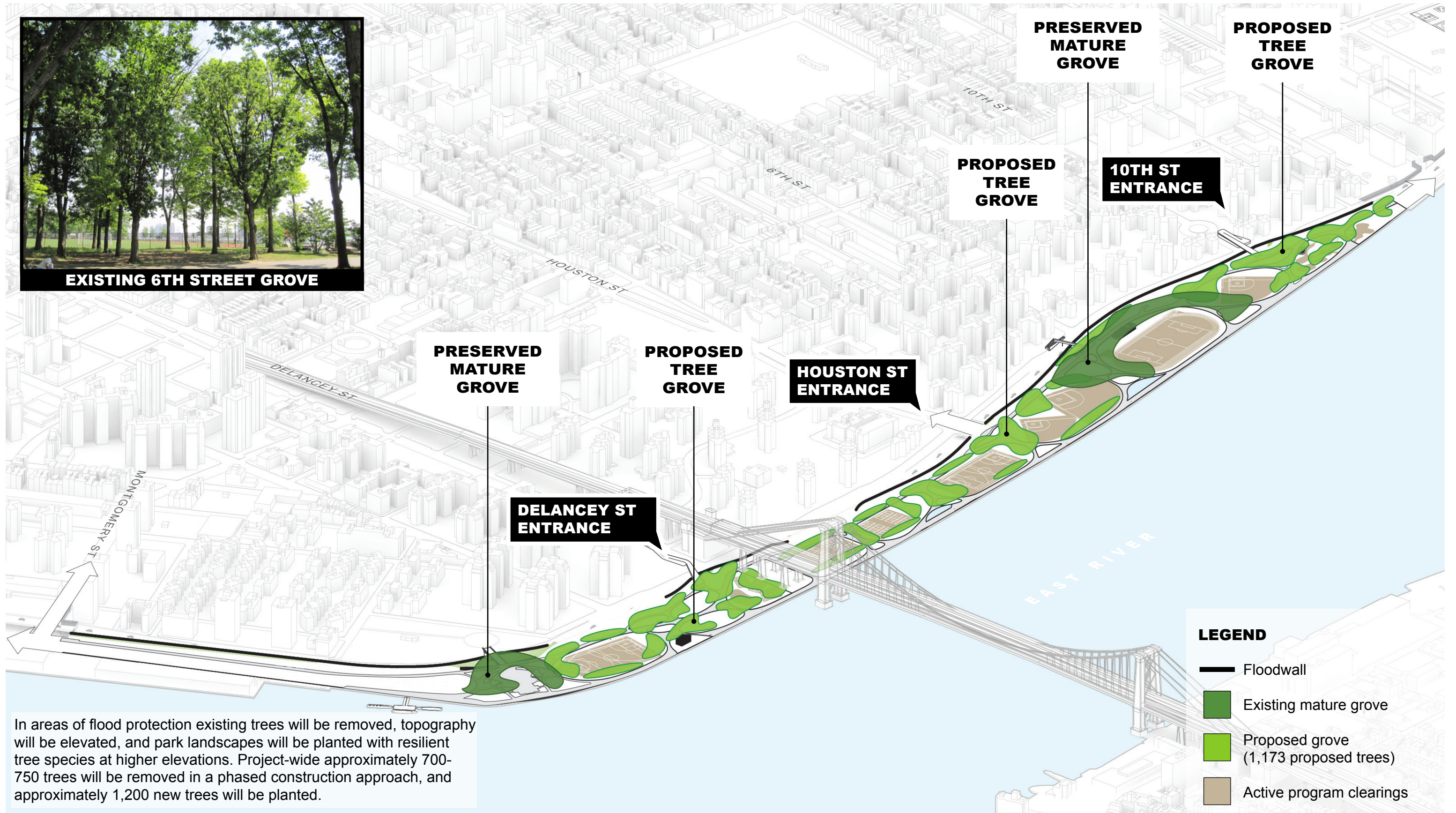


PERENNIALS ADD COLOR, TEXTURE & SEASONAL INTEREST



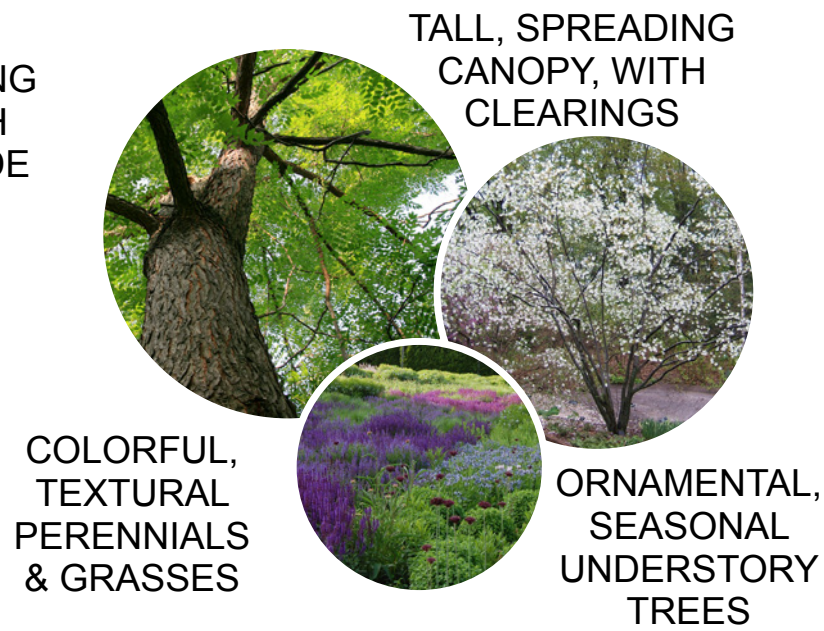
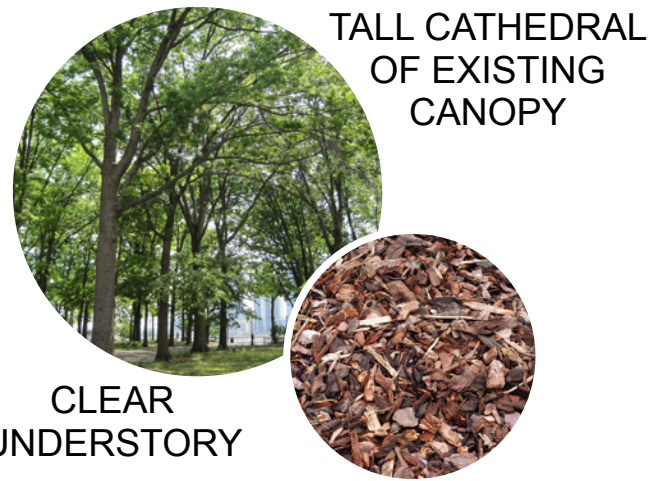


EXISTING 6TH STREET GROVE



In areas of flood protection existing trees will be removed, topography will be elevated, and park landscapes will be planted with resilient tree species at higher elevations. Project-wide approximately 700-750 trees will be removed in a phased construction approach, and approximately 1,200 new trees will be planted.

- LEGEND**
- Floodwall
 - Existing mature grove
 - Proposed grove (1,173 proposed trees)
 - Active program clearings



HIGH, FULL CANOPY CREATES CONNECTED, DAPPLED SHADE



EXISTING GROVE

- Location: Existing groves
- Mulch groundplane maintains open sight lines and open circulation
- Maintenance: Mature trees, mulch



PASTORAL GROVE

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



LAYERED GROVE

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



THICKENED GROVE

- Location: Paths and thresholds to frame views and buffer spaces
- Understory trees and shrub layer frame views and guide circulation forward
- Maintenance: Trees, shrubs







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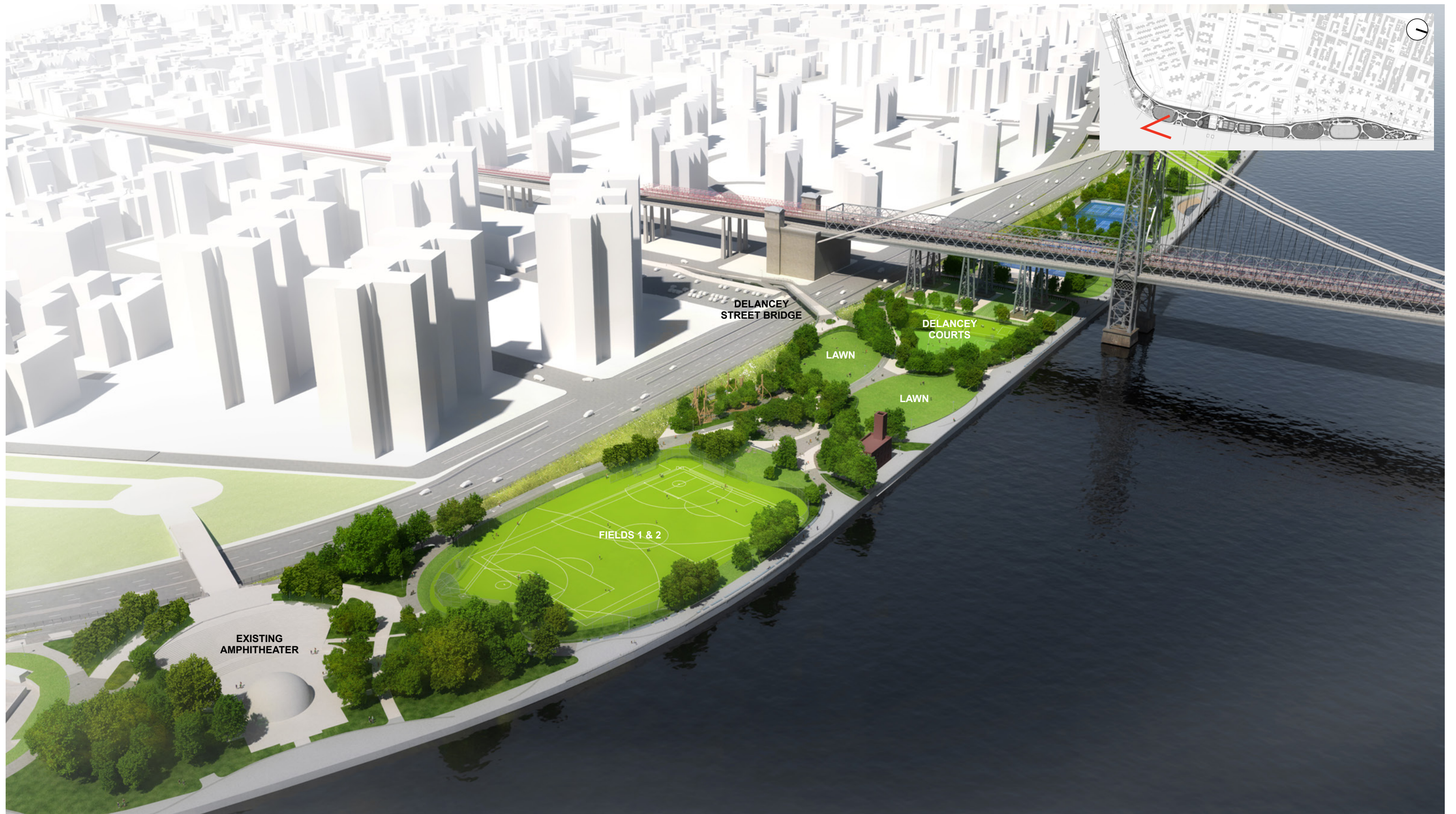
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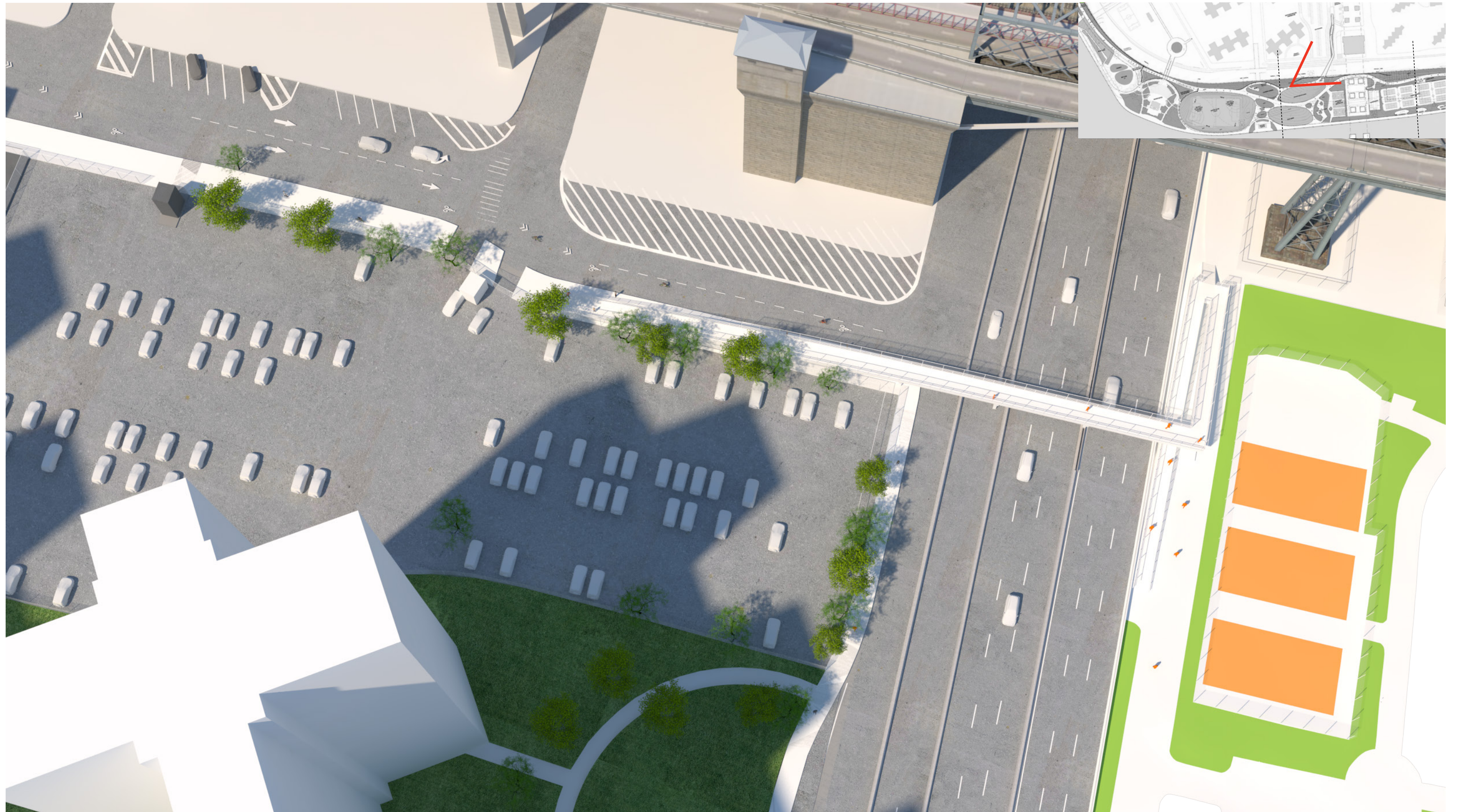
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EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 15, 2018

Montgomery St Tie-Back
Preliminary Review - Closed B-12







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MARCH 15, 2018

Delancey Street Bridge
Aerial: Existing Conditions B-15



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EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 15, 2018

Delancey Street Bridge
Aerial: Preliminary Review B-16



SIDEWALK

6.6'

BRIDGE

12'



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EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 15, 2018

Delancey Street Bridge
Preliminary Review B-18



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EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 15, 2018

Delancey Street Bridge
Preliminary Review B-19



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EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 15, 2018

Delancey Street Bridge
Existing Conditions B-20



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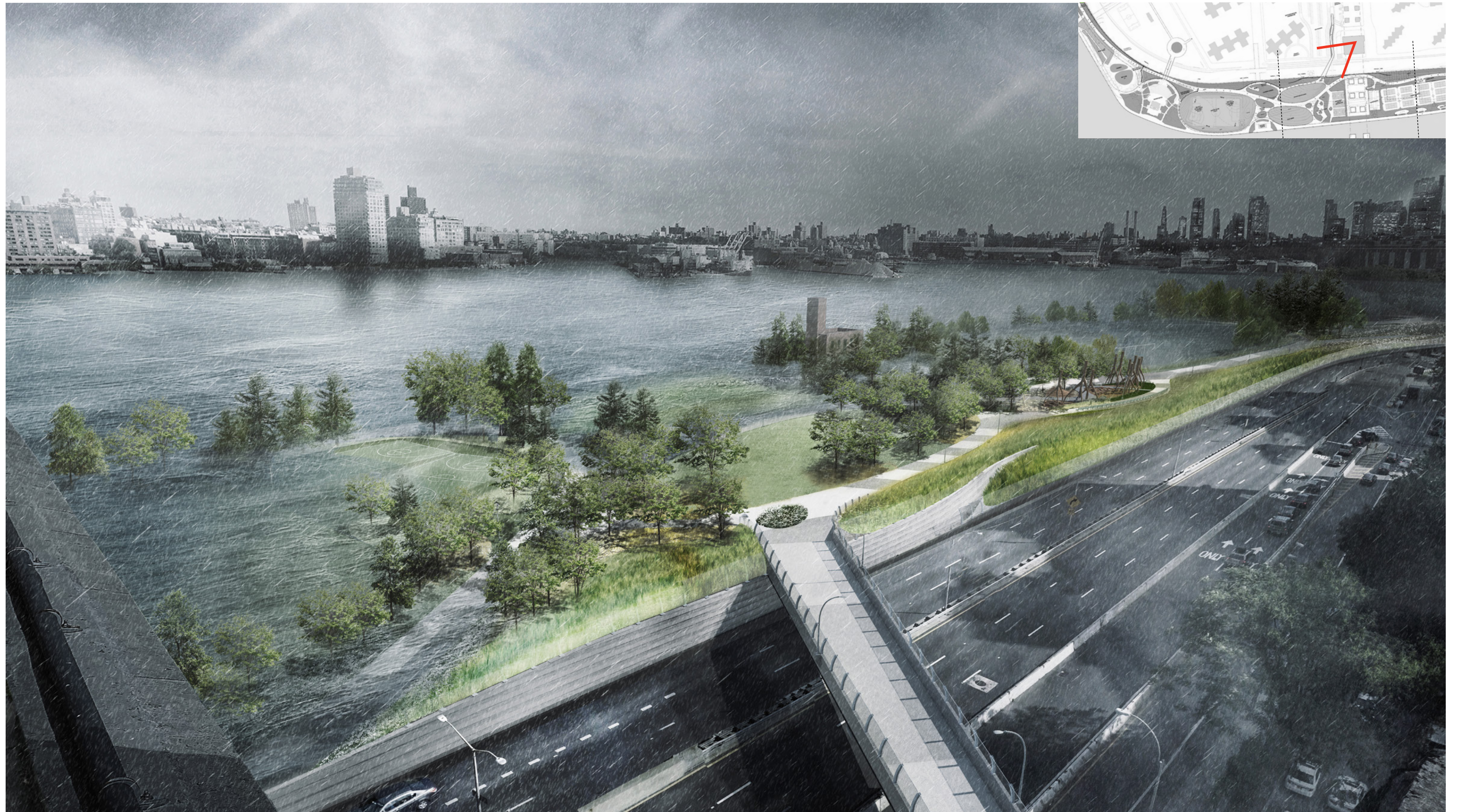
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EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 15, 2018

Delancey Street Bridge
Preliminary Review B-21



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EAST SIDE COASTAL RESILIENCY PROJECT
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Delancey Street Bridge
Preliminary Review - Storm B-22







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EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 15, 2018

Delancey St. Area
Ecology Plaza View B-25







DELANCEY GREAT LAWN



DELANCEY SPORTS AREA



NATURE EXPLORATION



DELANCEY WATERFRONT



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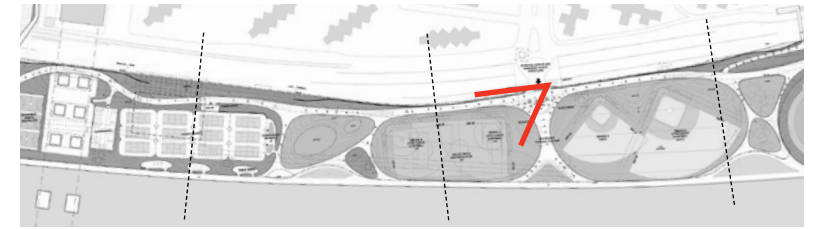
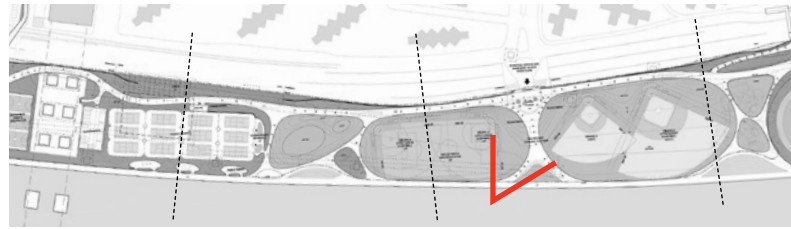
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EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 15, 2018

Tennis Courts / Fields 3&4
Aerial View B-29



HOUSTON STREET CONNECTION AERIAL



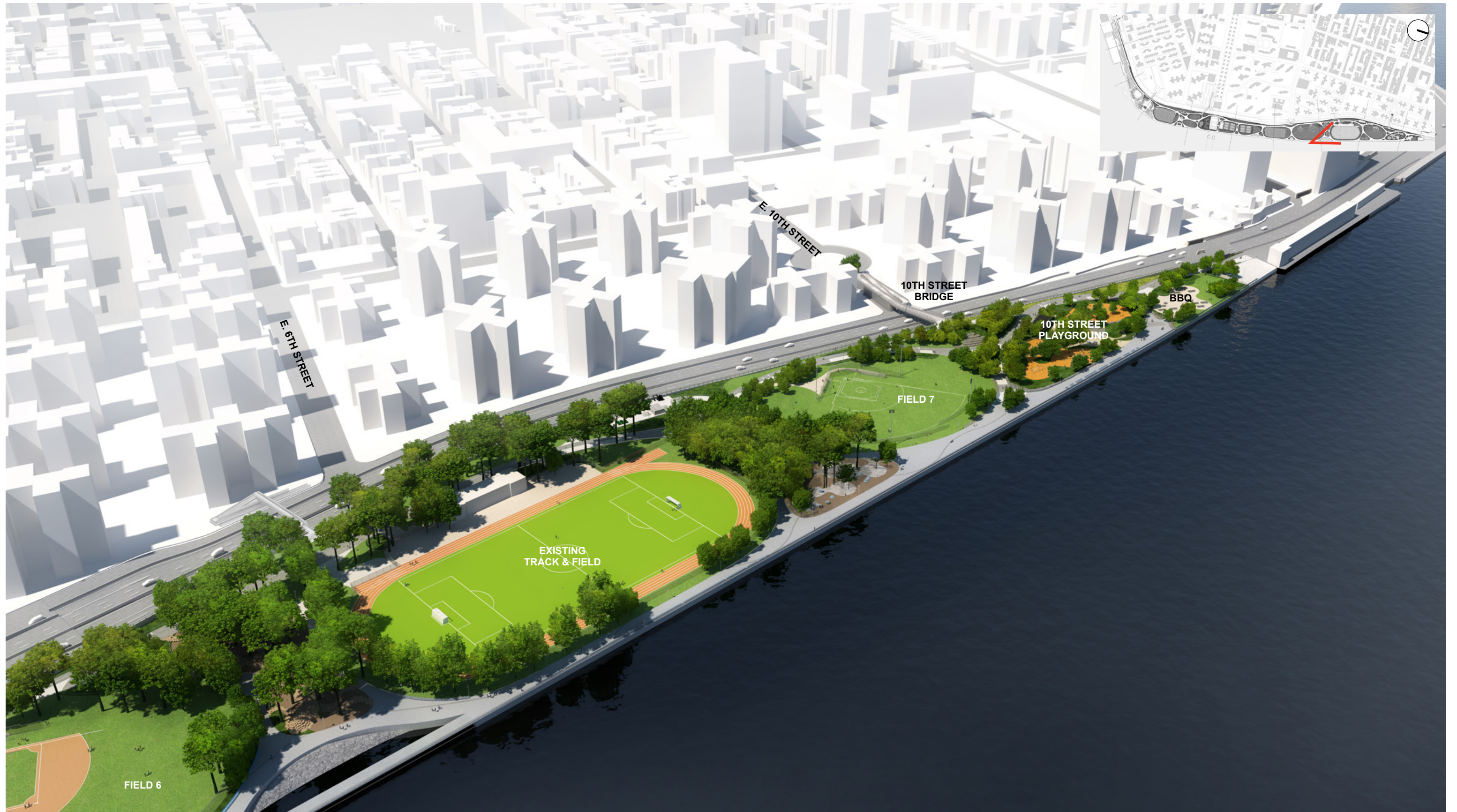
HOUSTON STREET CONNECTION











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EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 15, 2018

Track / Field 7 / 10th St.
Aerial View B-35



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10th Street Bridge
Aerial: Existing Conditions B-36



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10th Street Bridge
Aerial: Preliminary Review B-37





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10th Street Bridge
Preliminary Review B-39



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10th Street Bridge
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Picnic Grove
Preliminary Review B-41



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EAST SIDE COASTAL RESILIENCY PROJECT
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10th St. Playground
Preliminary Review B-42





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FDR Drive Gate - Open
Preliminary Review B-44



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NEW YORK CITY MAYOR'S
OFFICE OF RECOVERY
AND RESILIENCY

COMMUNITY BOARD PROJECT UPDATE
EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 15, 2018

FDR Drive Gate - Closed
Preliminary Review B-45

NEXT STEPS

- **Final design advancement**
 - **Finalize materials and finishes**
 - **Continue coordination with City Agencies, Utilities Community Boards, and PDC**
- **Advance construction phasing and sequencing studies**
- **Release draft EIS**
- **Submit ULURP application**
- **Final Design - PDC and Community Board review**

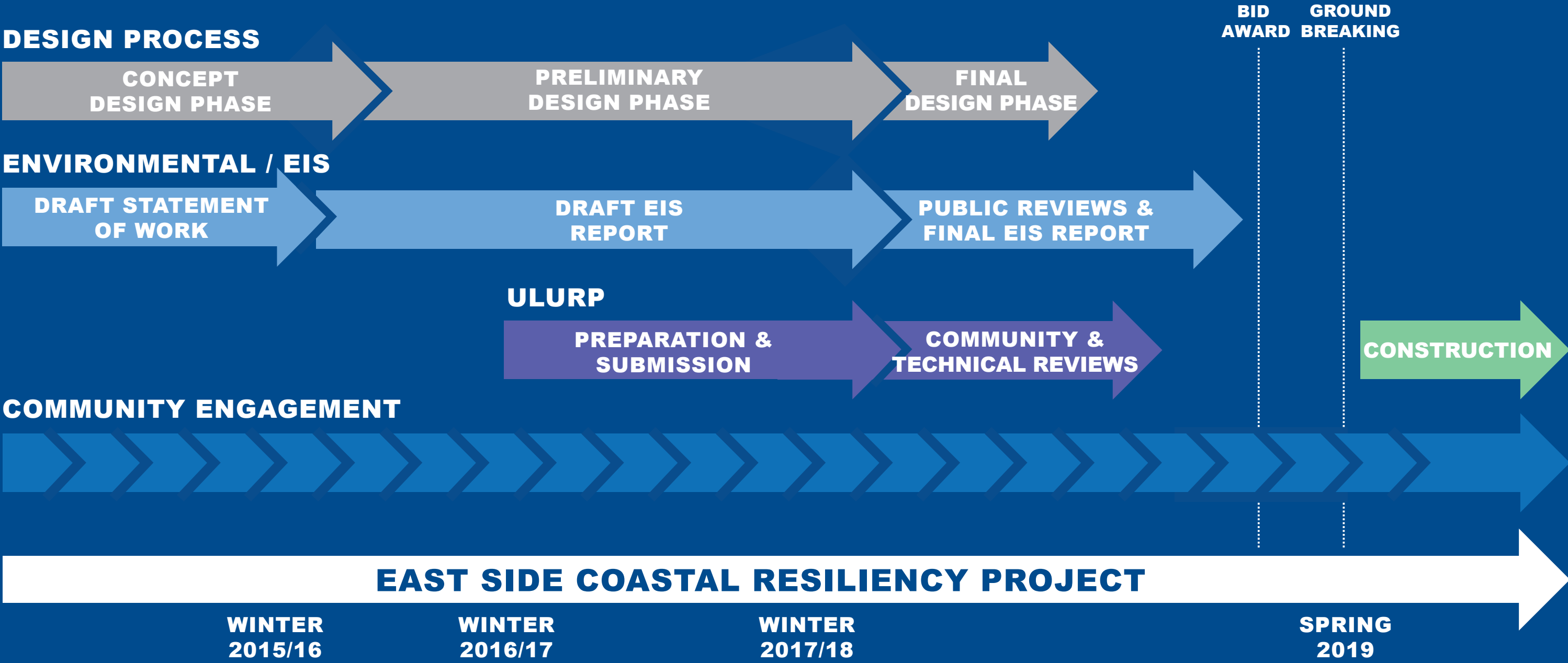
COMMUNITY BOARD PROJECT UPDATES

A. SITE STRATEGY

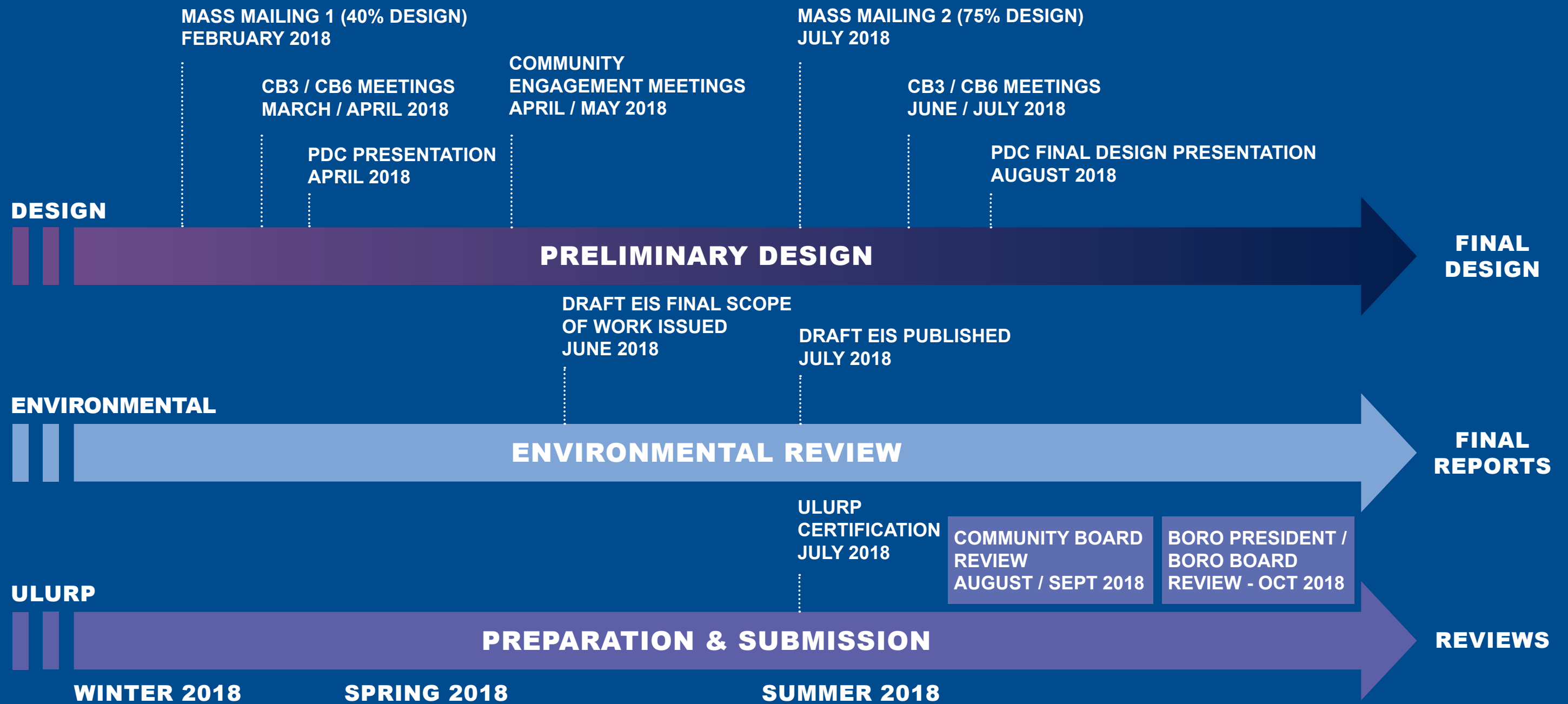
B. SITE DESIGN

C. SCHEDULE & NEXT STEPS

CURRENT SCHEDULE



ANTICIPATED 2018 SCHEDULE



ANTICIPATED 2018-2019 SCHEDULE

DESIGN

FINAL DESIGN & CONTRACTING PROCESS

CPC ULURP / DRAFT EIS PUBLIC HEARING OCTOBER 2018 FINAL EIS PUBLISHED DECEMBER 2018 RECORD OF DECISION / FINDINGS FEBRUARY 2019

ENVIRONMENTAL

ENVIRONMENTAL REVIEW

**GROUND BREAKING
SPRING 2019**

CPC ULURP / DRAFT EIS PUBLIC HEARING
OCTOBER 2018

ULURP

CITY PLANNING COMMISSION REVIEW
NOVEMBER / DECEMBER 2018

CITY COUNCIL REVIEW
DECEMBER 2018 / EARLY FEBRUARY 2019

COMMUNITY & TECHNICAL REVIEWS

FALL 2018

WINTER 2019

UPCOMING MEETINGS

- **PDC - Preliminary Design Review**
 - **CB6 Land Use Committee (3/26/18)**
 - **CB3 Full Board Meeting (3/27/18)**
 - **CB6 Full Board Meeting (4/11/18)**

- **Community Engagement Meetings (TBD - late April / May)**
 - **Study Area 1 South (Montgomery St to Houston St)**
 - **Study Area 1 North (Houston St to 14th St)**
 - **Study Area 2 (14th St to 25th St)**



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