East Side Coastal Resiliency

East River Alliance

March 13, 2019

P.S. 15
333 E. 4th St.

NYC DDC
NYC Parks
NEW YORK CITY DOT
NYC Environmental Protection
NYC Mayor's Office of Recovery & Resiliency

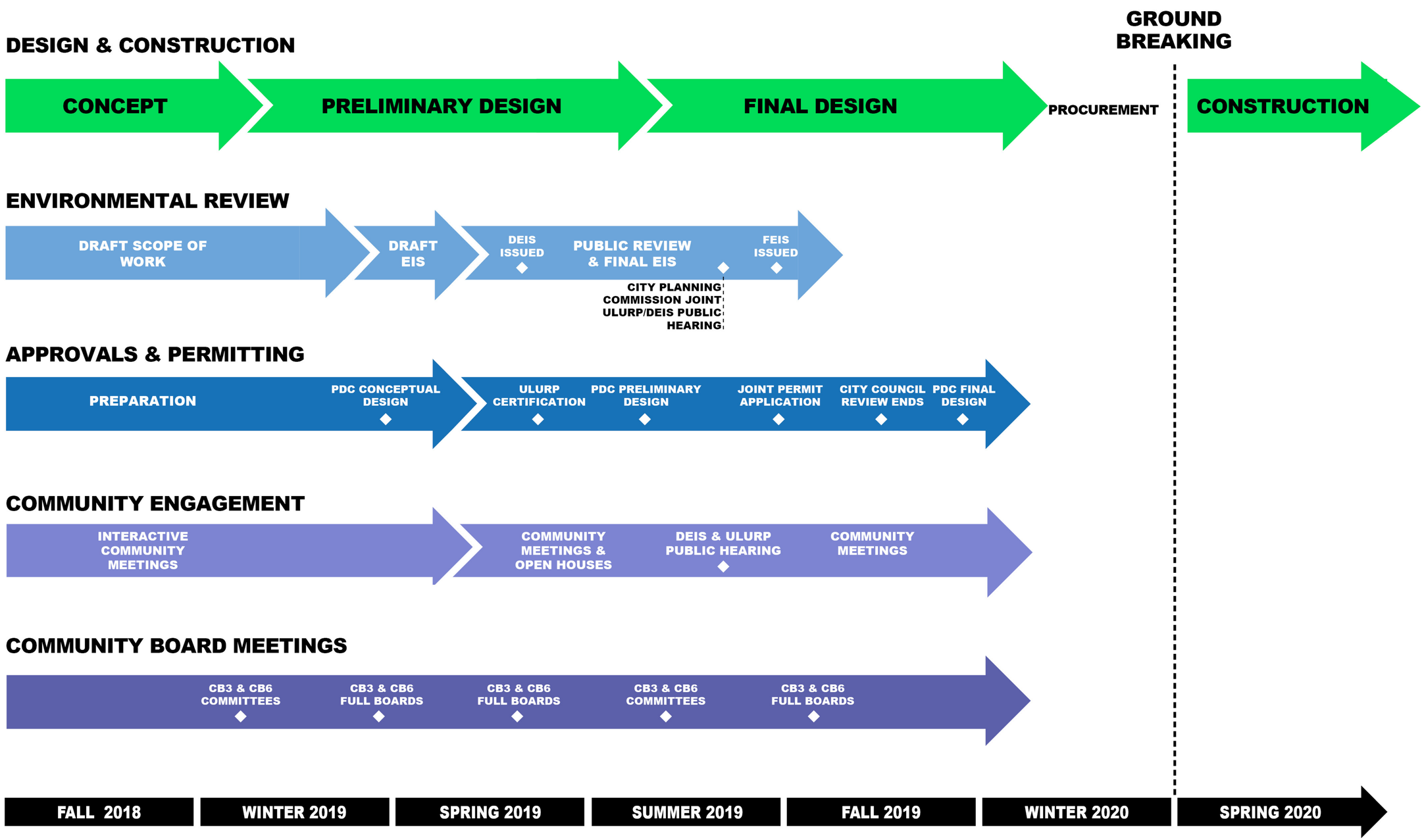
AGENDA

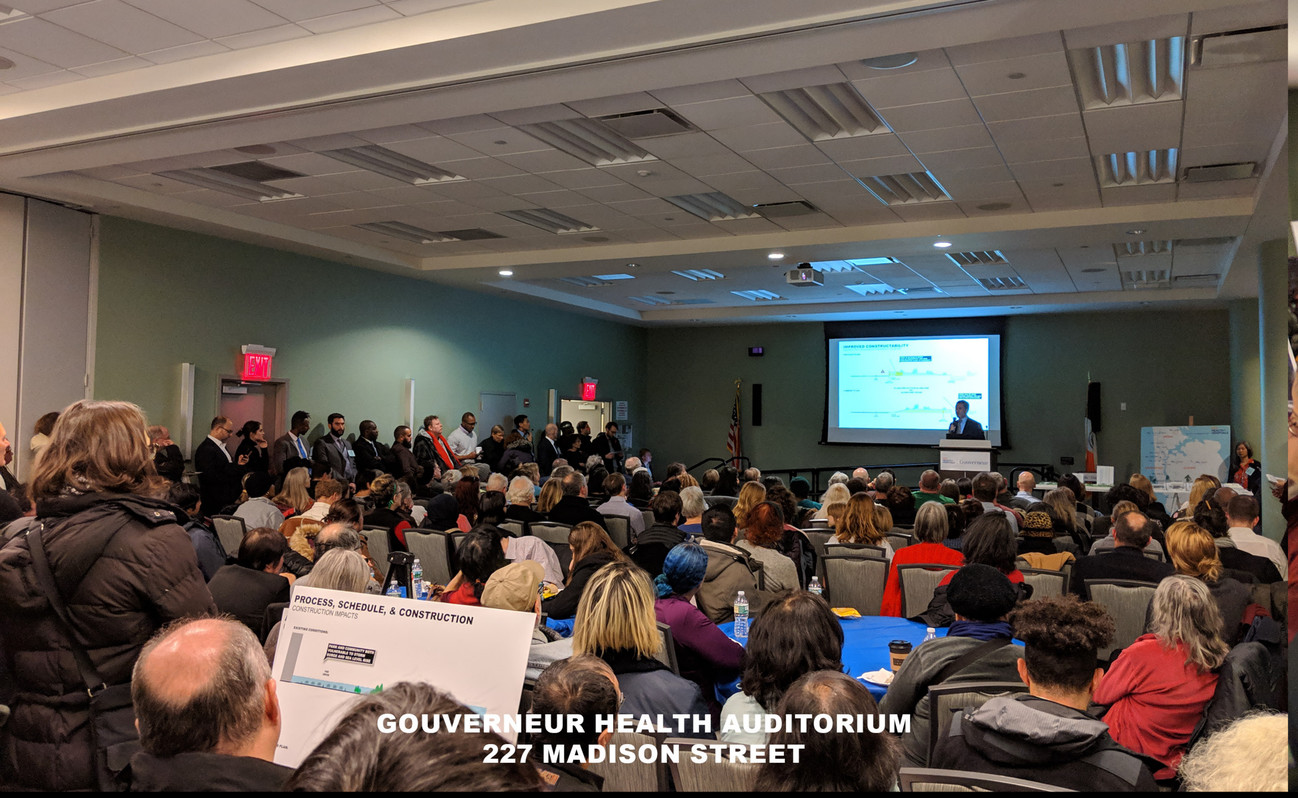
Schedule & Outreach

Design Overview

East River Park Planting & Ecology

CONSTRUCTION & COMMUNITY ENGAGEMENT TIMELINE



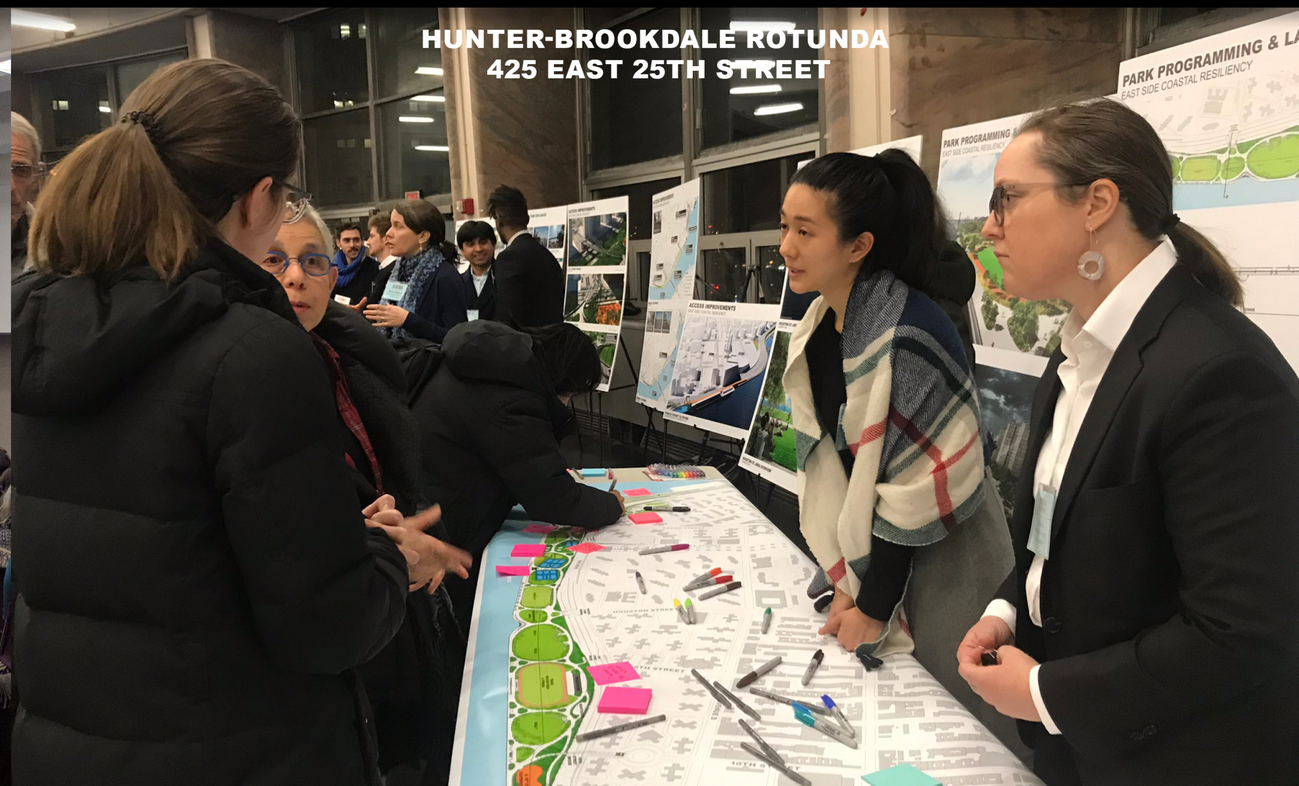


GOUVERNEUR HEALTH AUDITORIUM
227 MADISON STREET

GOUVERNEUR HEALTH AUDITORIUM
227 MADISON STREET

COMMUNITY MEETINGS WINTER 2018/2019

HUNTER-BROOKDALE ROTUNDA
425 EAST 25TH STREET



HUNTER-BROOKDALE ROTUNDA
425 EAST 25TH STREET

COMMUNITY ENGAGEMENT SCHEDULE

STAKEHOLDER MEETINGS

LESREADY!

NEW YORKERS FOR PARKS

LUNGS

REGIONAL PLAN ASSOCIATION

NYCHA RA LEADERSHIP: INVITED CAMPUSES INCLUDE BARUCH, CAMPOS, RIIS, WALD, VLADECK, LES II, III & V, AND GOMPERS

LOWER EAST SIDE POWER PARTNERSHIP

NYCHA RIIS RESIDENTS

STUYVESANT TOWN \ PETER COOPER VILLAGE RESIDENTS ASSOCIATION

EAST RIVER ALLIANCE

NYCHA LES II, V & BRACETTI PLAZA RESIDENTS

FRIENDS OF CORLEARS HOOK PARK

GOURVERNEUR GARDENS

LES ECOLOGY CENTER

PETER STUYVESANT LITTLE LEAGUE

SOLAR ONE

STUYVESANT COVE PARK ASSOCIATION

STUYVESANT TOWN \ PETER COOPER VILLAGE MANAGEMENT

WATERSIDE PLAZA

COMMUNITY BOARD & COUNCIL MEMBER MEETINGS

CM RIVERA

CB3 PARKS COMMITTEE

CB6 LAND USE COMMITTEE

CB3 PARKS COMMITTEE

CM POWERS

CB3 PARKS COMMITTEE

CB6 LAND USE COMMITTEE

CB3 PARKS COMMITTEE

JANUARY 2019 | **FEBRUARY 2019** | **MARCH 2019** | **APRIL 2019**

MEETING OCCURRED

MEETINGS TO TAKE PLACE/ TO BE SCHEDULED

WHAT WE'VE HEARD

Construction

Is a phased closing or opening possible?

Will park/waterfront access be possible during construction?

How will park and permitted field users be accommodated?

Is transportation to other parks possible?

Future Park Planning

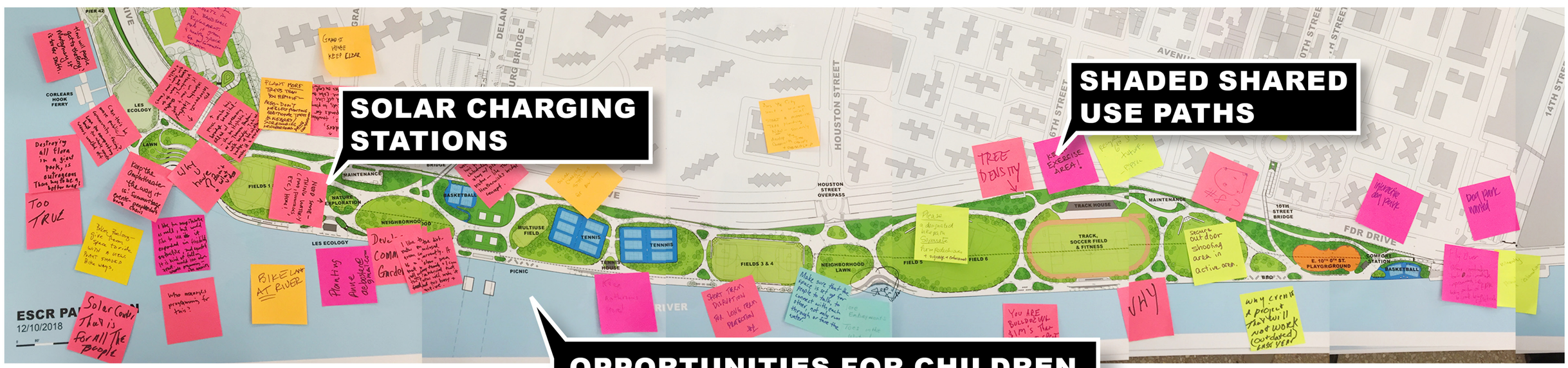
What will water access look like?

How will existing ecology be protected/enhanced?

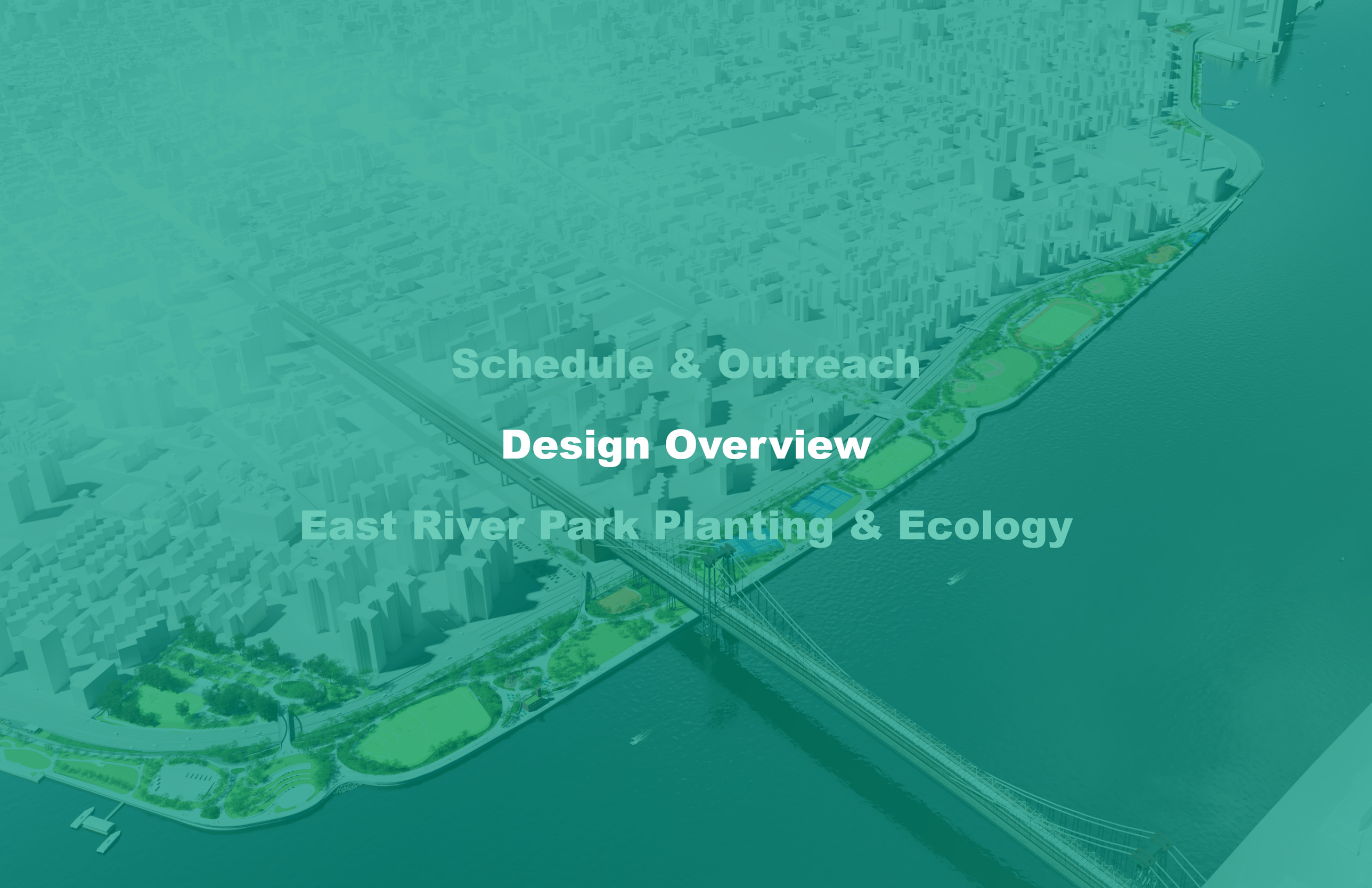
Can the park reconstruction be an opportunity to improve the ecology of the neighborhood?

WHAT WE'VE HEARD - EAST RIVER PARK

PLAN ROLL OUT ON DECEMBER 10TH



PLAN ROLL OUT ON DECEMBER 11TH



Schedule & Outreach

Design Overview

East River Park Planting & Ecology

PROJECT GOALS & ORIGIN

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

Improve waterfront open spaces and access.

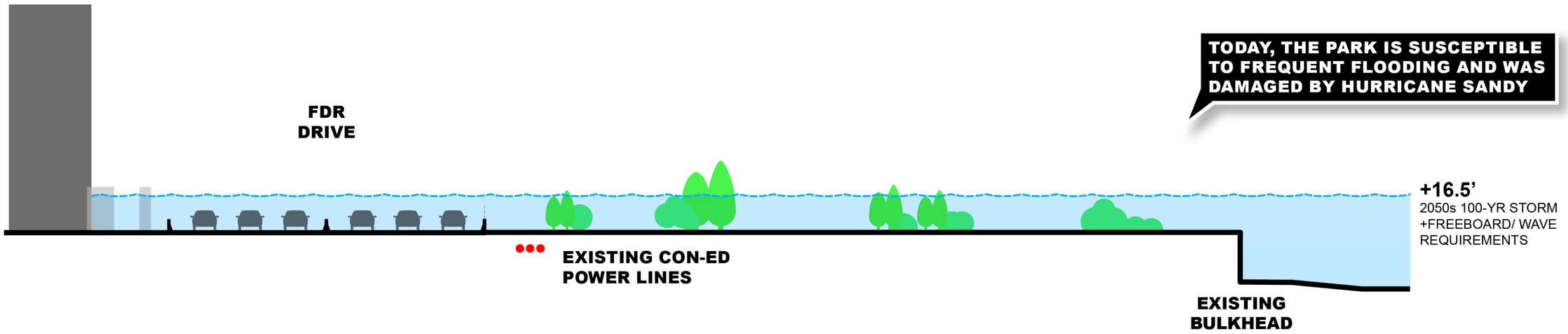
Achieve implementation milestones and project funding allocations as established by HUD.

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

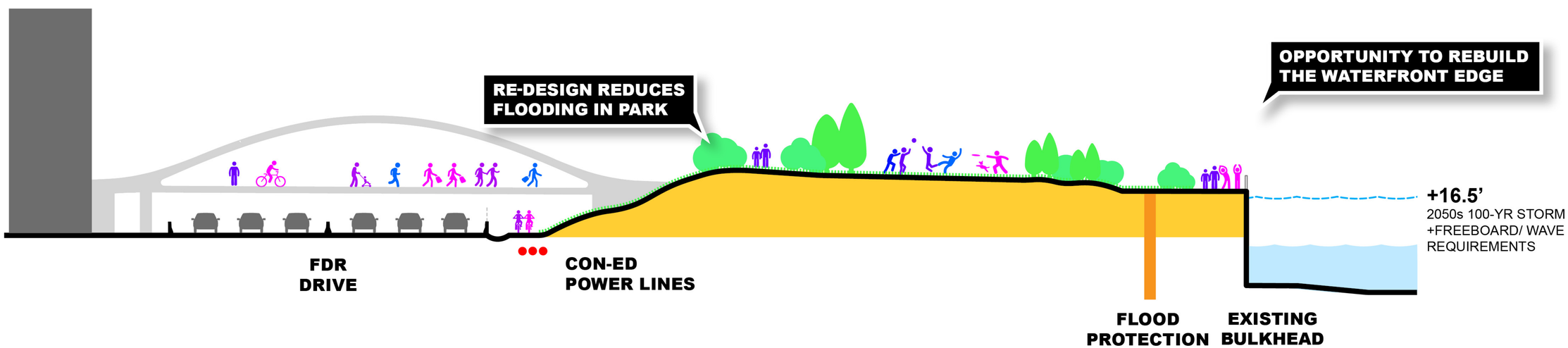
IMPROVED PARK RESILIENCY

PARK IS ABOVE THE 2050s 100-YEAR FLOODPLAIN

EXISTING CONDITIONS



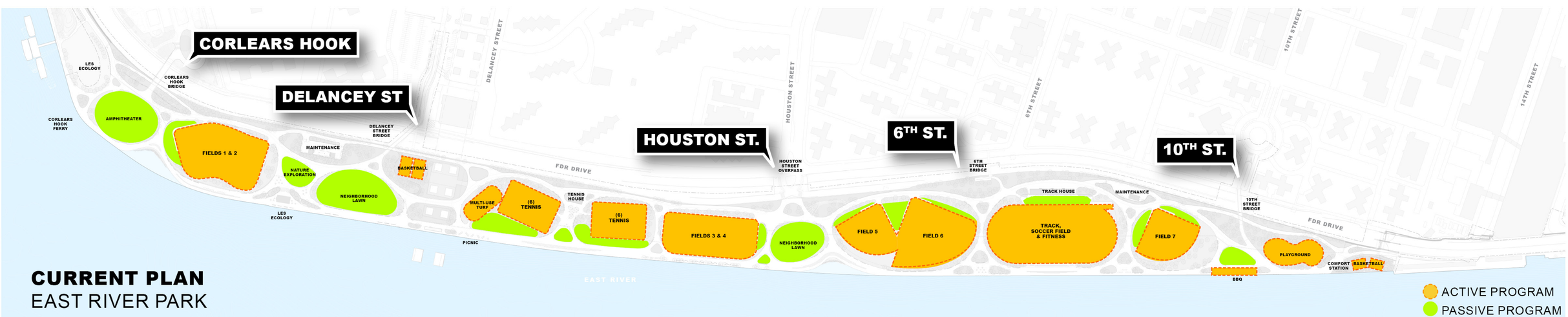
CURRENT PLAN



IMPROVED OPEN SPACE

PARK PROGRAM COMPARISON

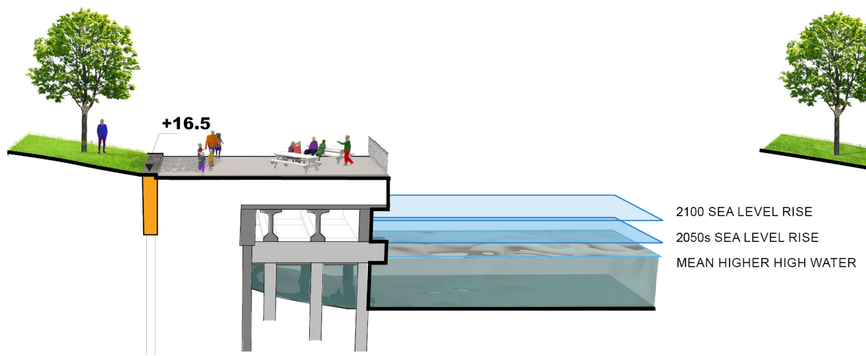
EXISTING CONDITIONS
EAST RIVER PARK



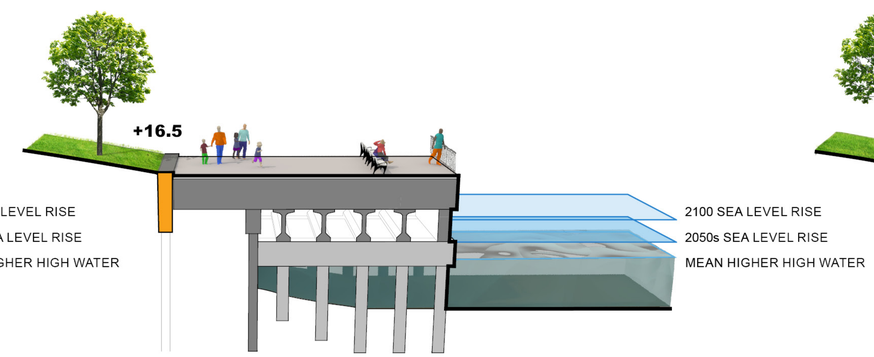
CURRENT PLAN
EAST RIVER PARK

IMPROVED PARK RESILIENCY

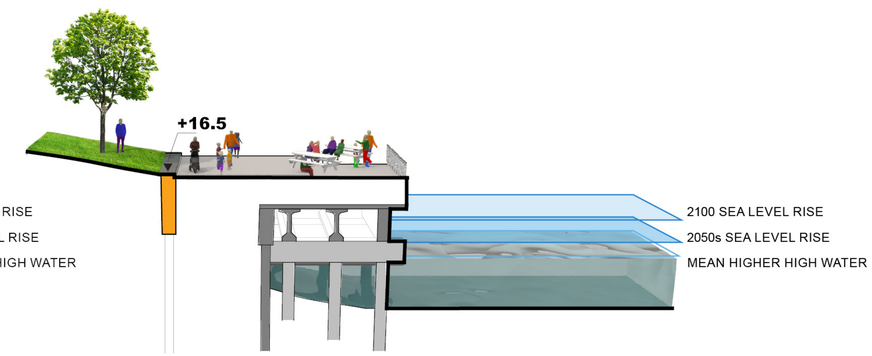
DIFFERENT EXPERIENCES FOR WATERFRONT ACCESS



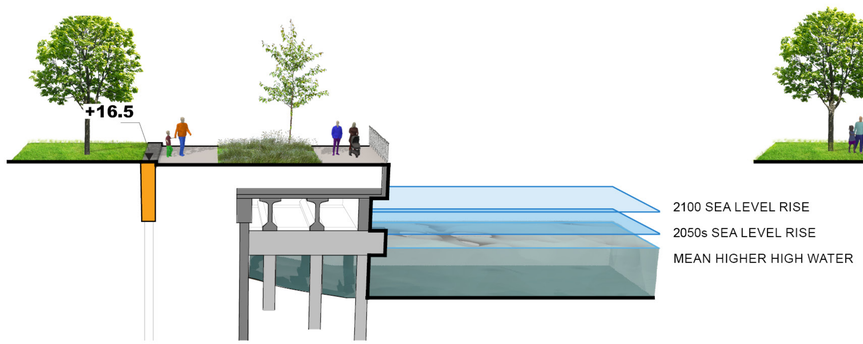
ACTIVE EDGE



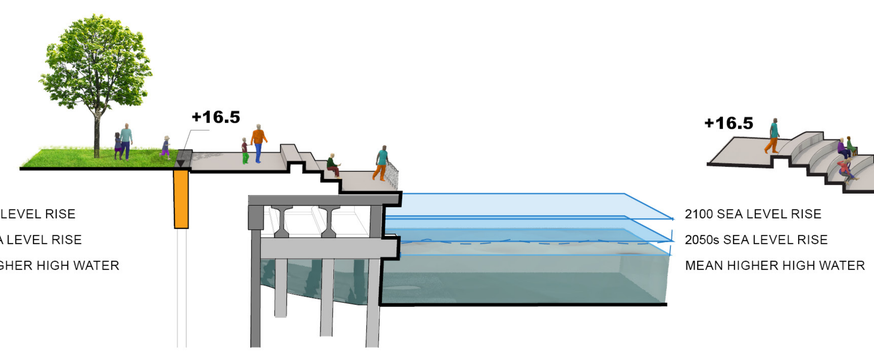
CIVIC PROMENADE



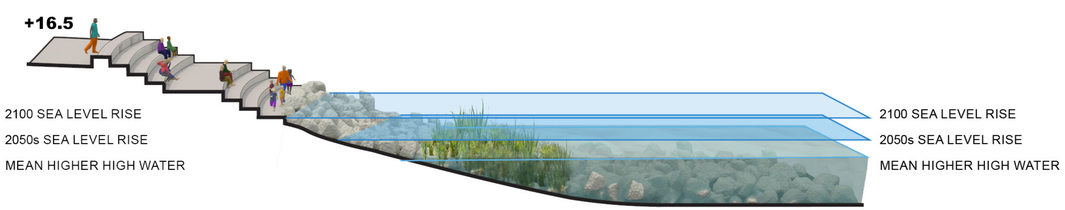
STEP UP



PLANTED EDGE



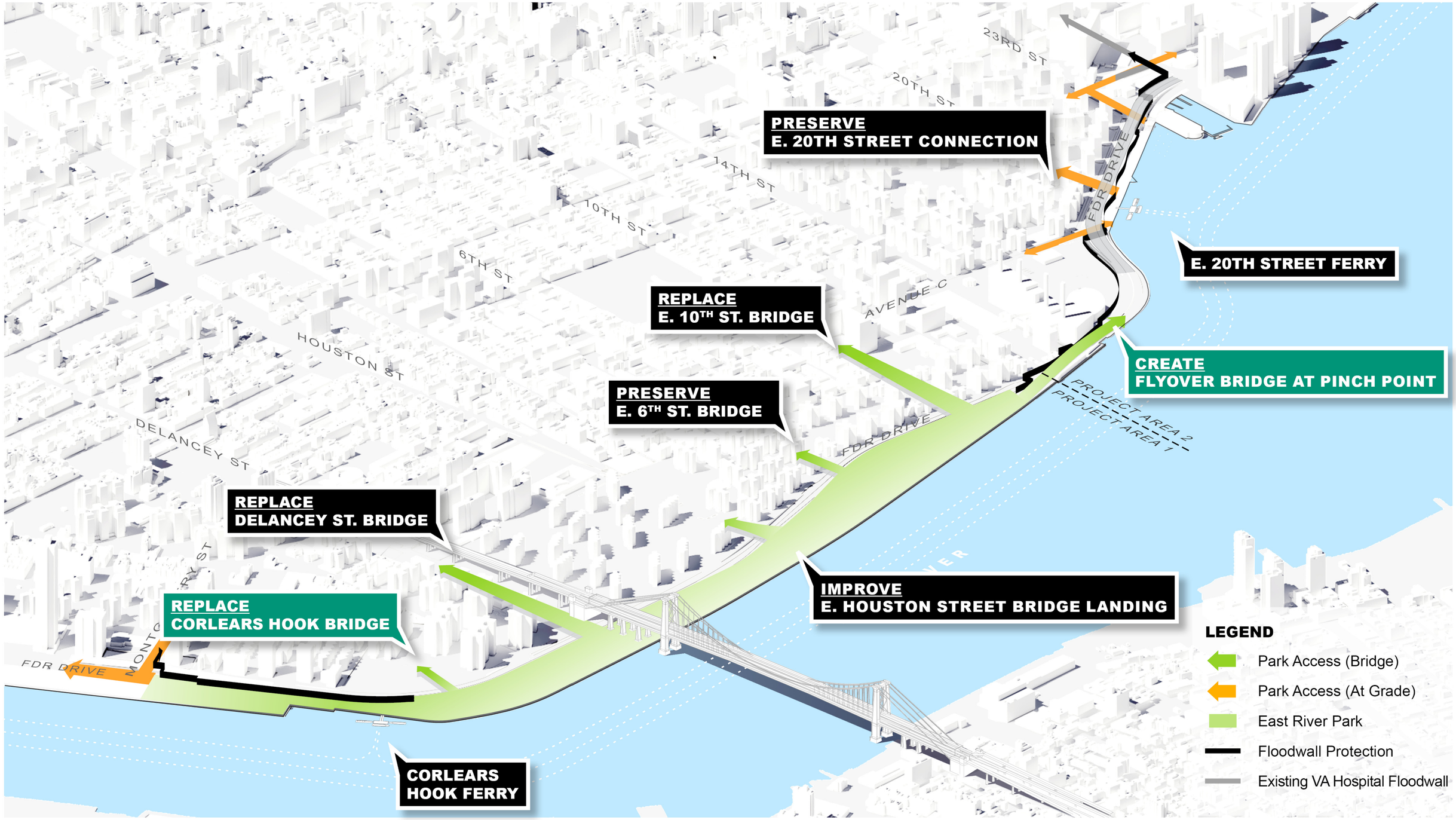
STEP DOWN



EMBAYMENT

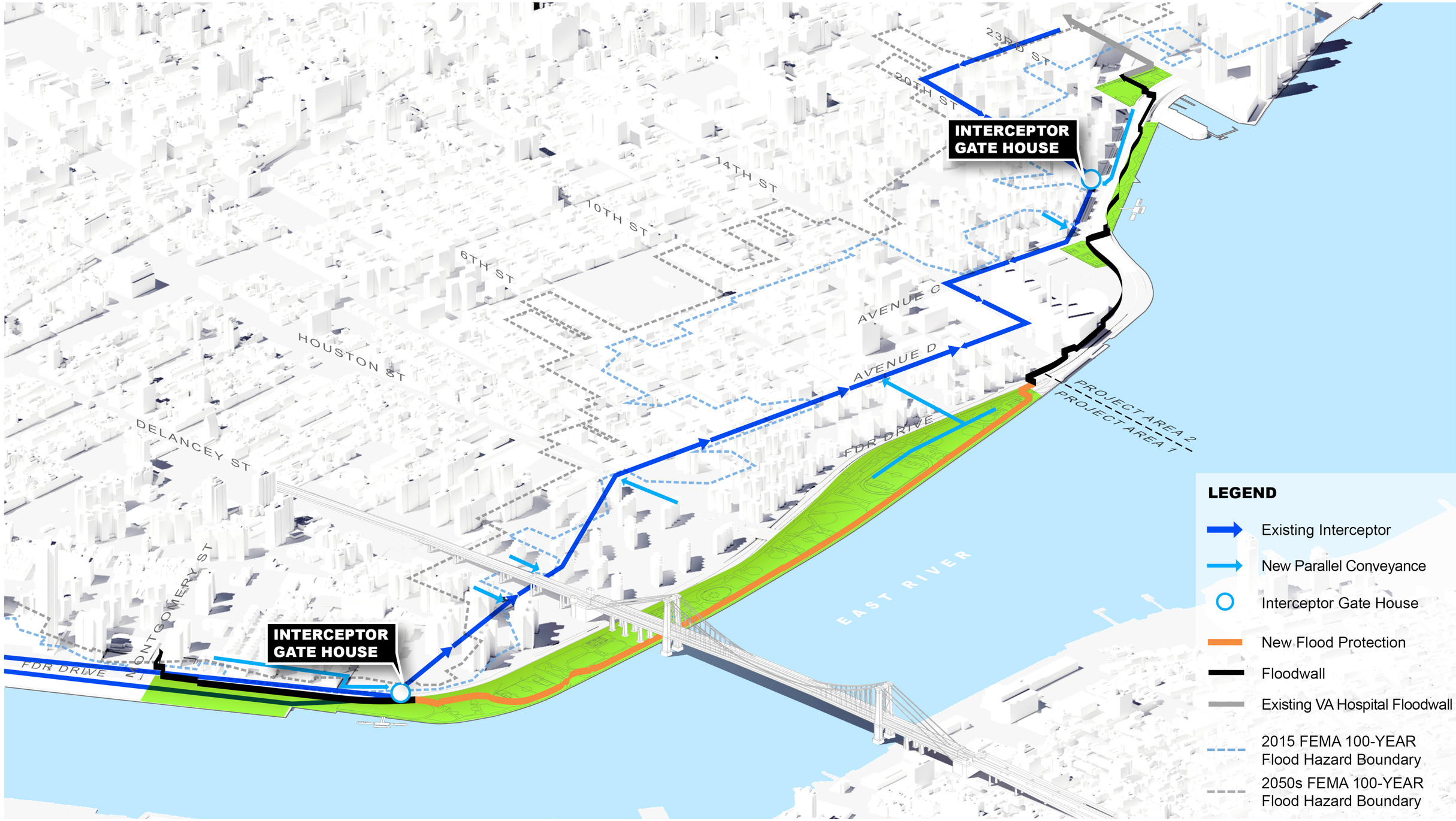
FLOOD PROTECTION BELOW GROUND

IMPROVED WATERFRONT OPEN SPACES & ACCESS



IMPROVED RESILIENCY

ENHANCING DRAINAGE INFRASTRUCTURE THROUGHOUT THE STUDY AREA



IMPROVED PARK RESILIENCY

RECONSTRUCTING EAST RIVER ESPLANADE AND BULKHEAD

SOUTH HIGH LEVEL PLATFORM

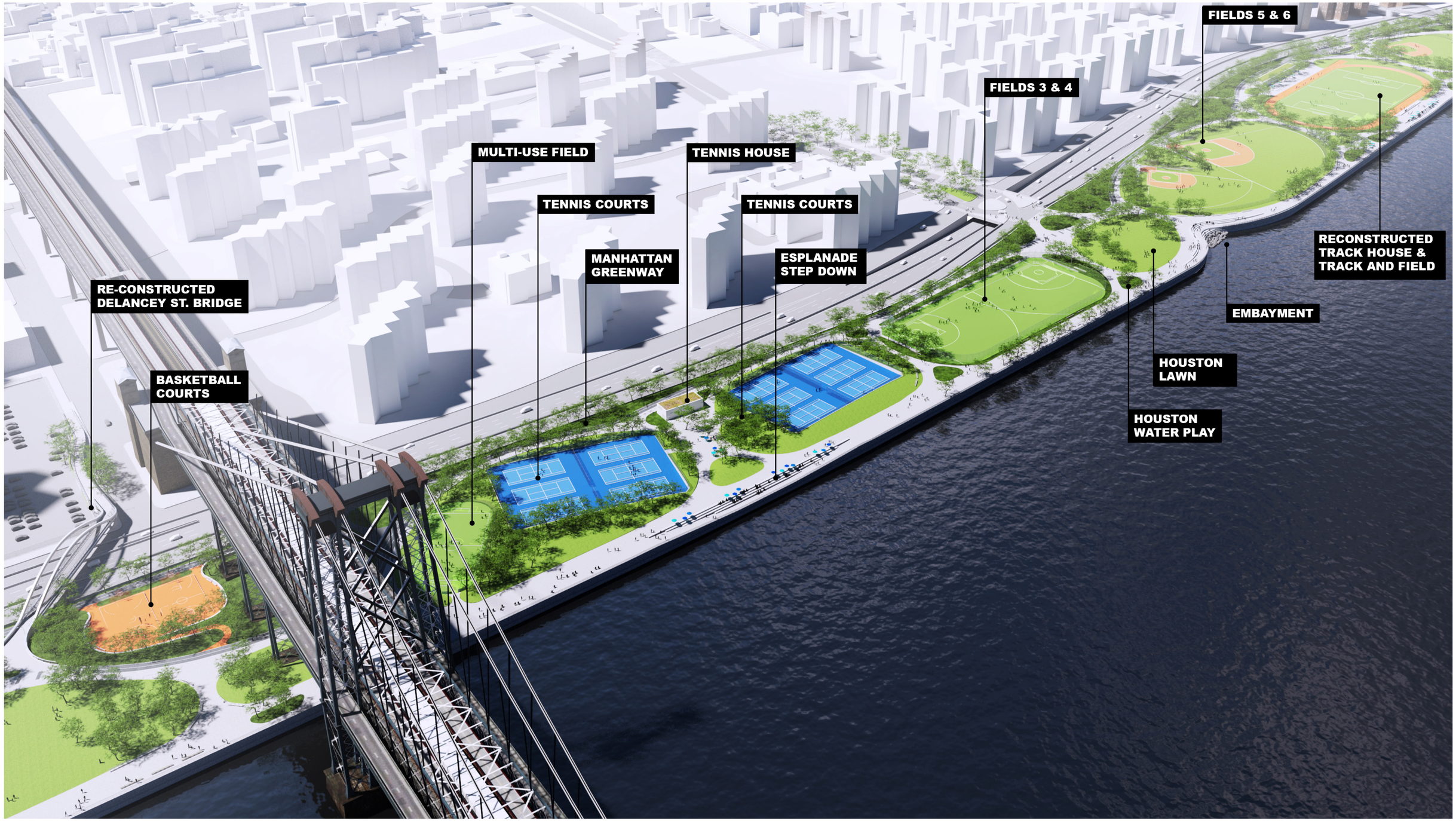
NORTH HIGH LEVEL PLATFORM

- FAIR CONDITION
- FAIR/POOR CONDITION
- POOR CONDITION

*Data from *Rehabilitation of East River Park Waterfront Structure* Design Inspection Report September 2018

DELANCEY STREET AREA

CONCEPTUAL PLAN

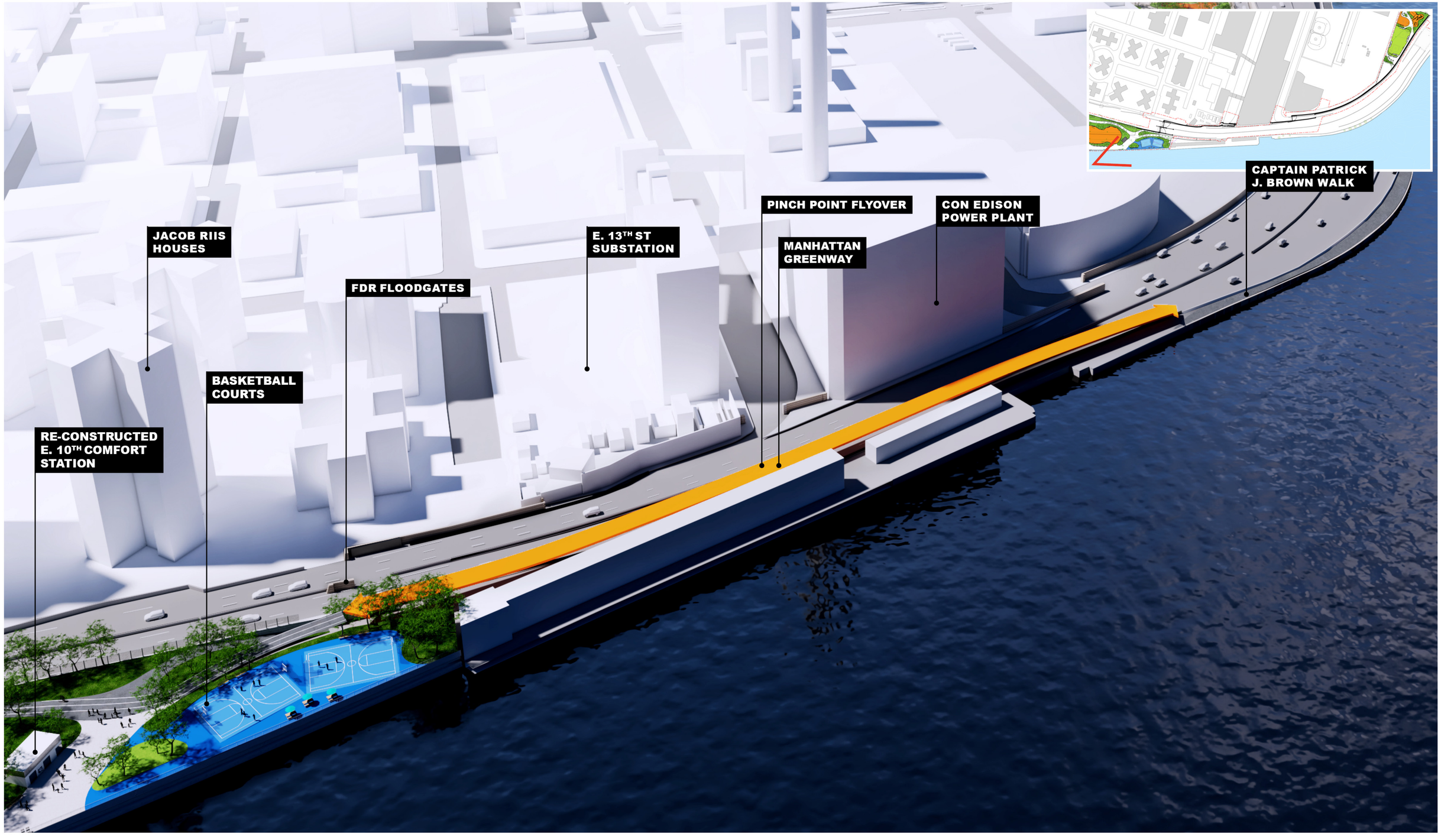


HOUSTON STREET AREA

CONCEPTUAL PLAN

NORTH EAST RIVER PARK

CONCEPTUAL PLAN



PINCH POINT FLYOVER BRIDGE

CONCEPTUAL PLAN

Schedule & Outreach

Design Overview

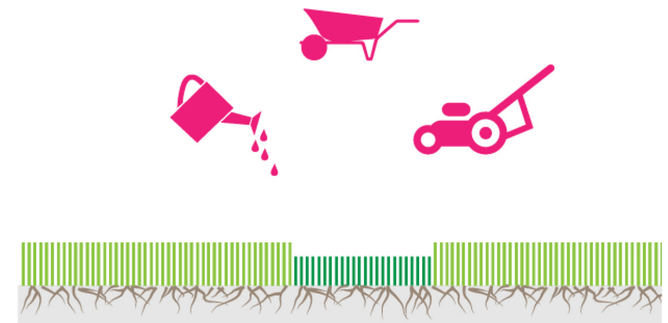
East River Park Planting & Ecology

PARK RESILIENCY

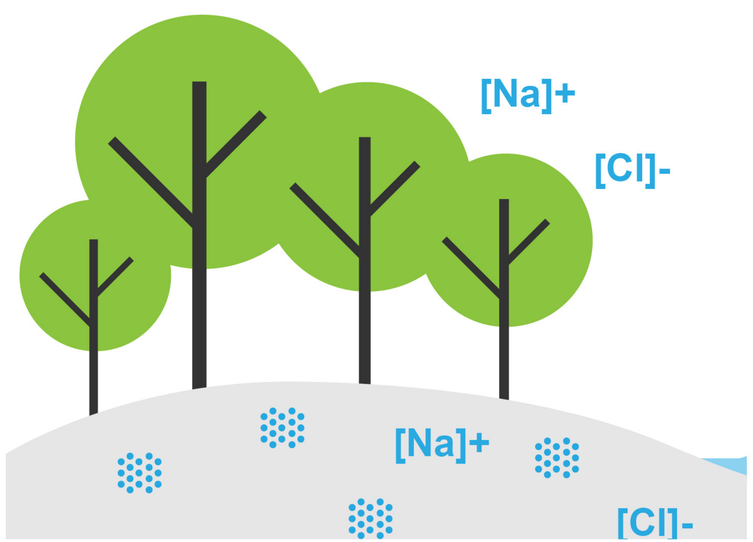
OPPORTUNITY TO IMPROVE ECOLOGICAL HEALTH & BIODIVERSITY

SPECIES DIVERSITY

HABITAT



MAINTENANCE & CARE



SALT SPRAY

WIND

PARK TREE HISTORY & EVOLUTION

1939

2015

EAST RIVER PARK TREE SURVEY

Date: 9.23.2015

EXISTING SPECIES DISTRIBUTION

LEGEND
Tree Species

- Pin Oak
- London Planetree
- Honey Locust
- Callery Pear
- Silver Linden
- Northern Red Oak
- Sweetgum
- Other

Diagram Date: 9.23.2015

EXISTING TREES ARE LOW-LYING WITH FLOOD RISK

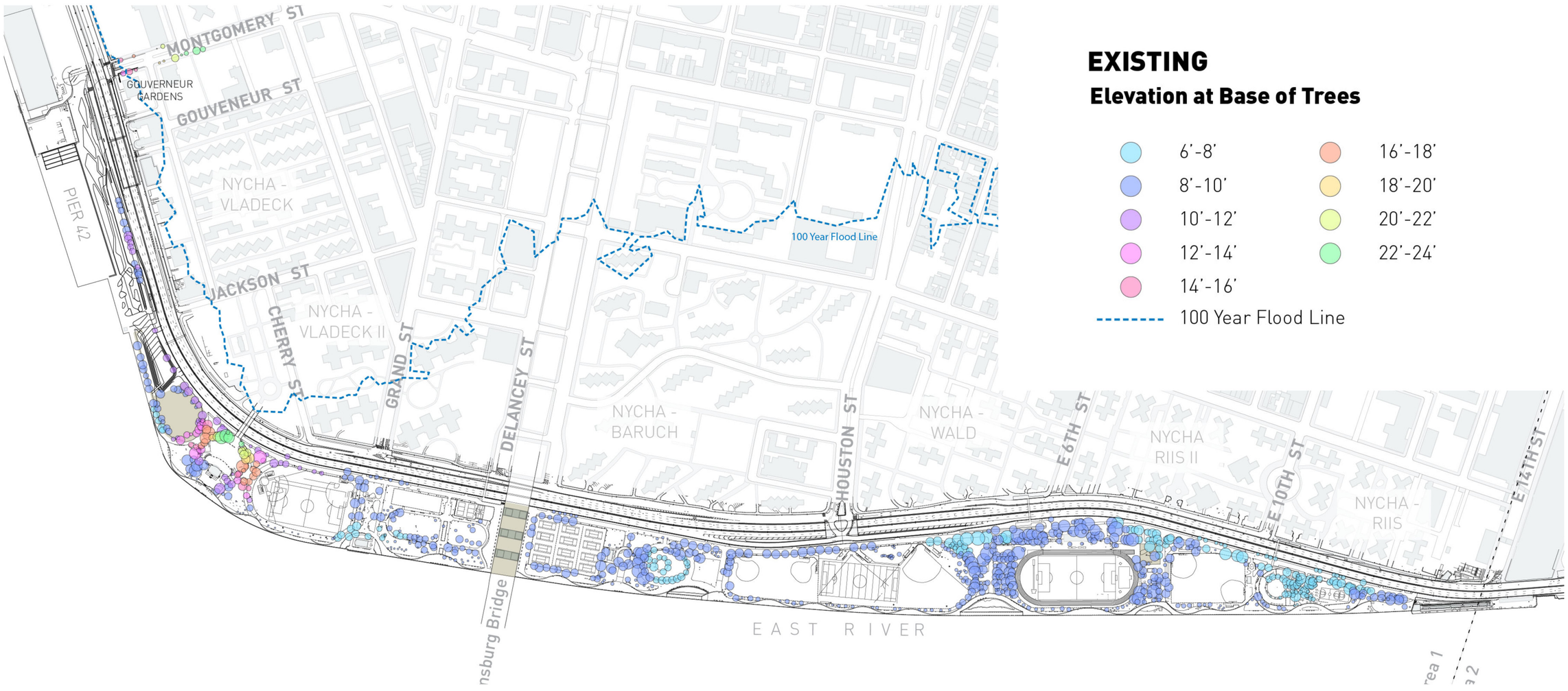
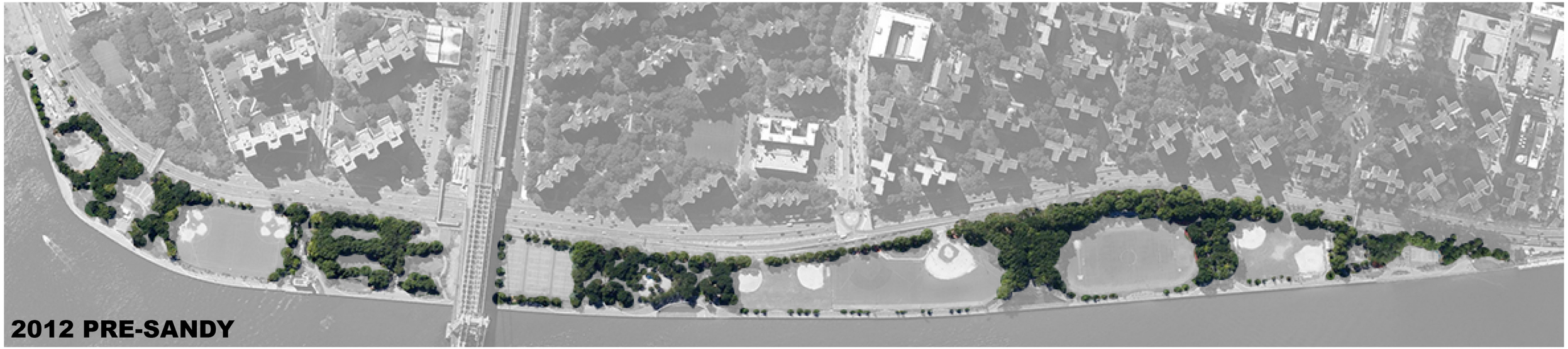


Diagram Date: 9.23.2015

POST-SANDY CANOPY CHANGE

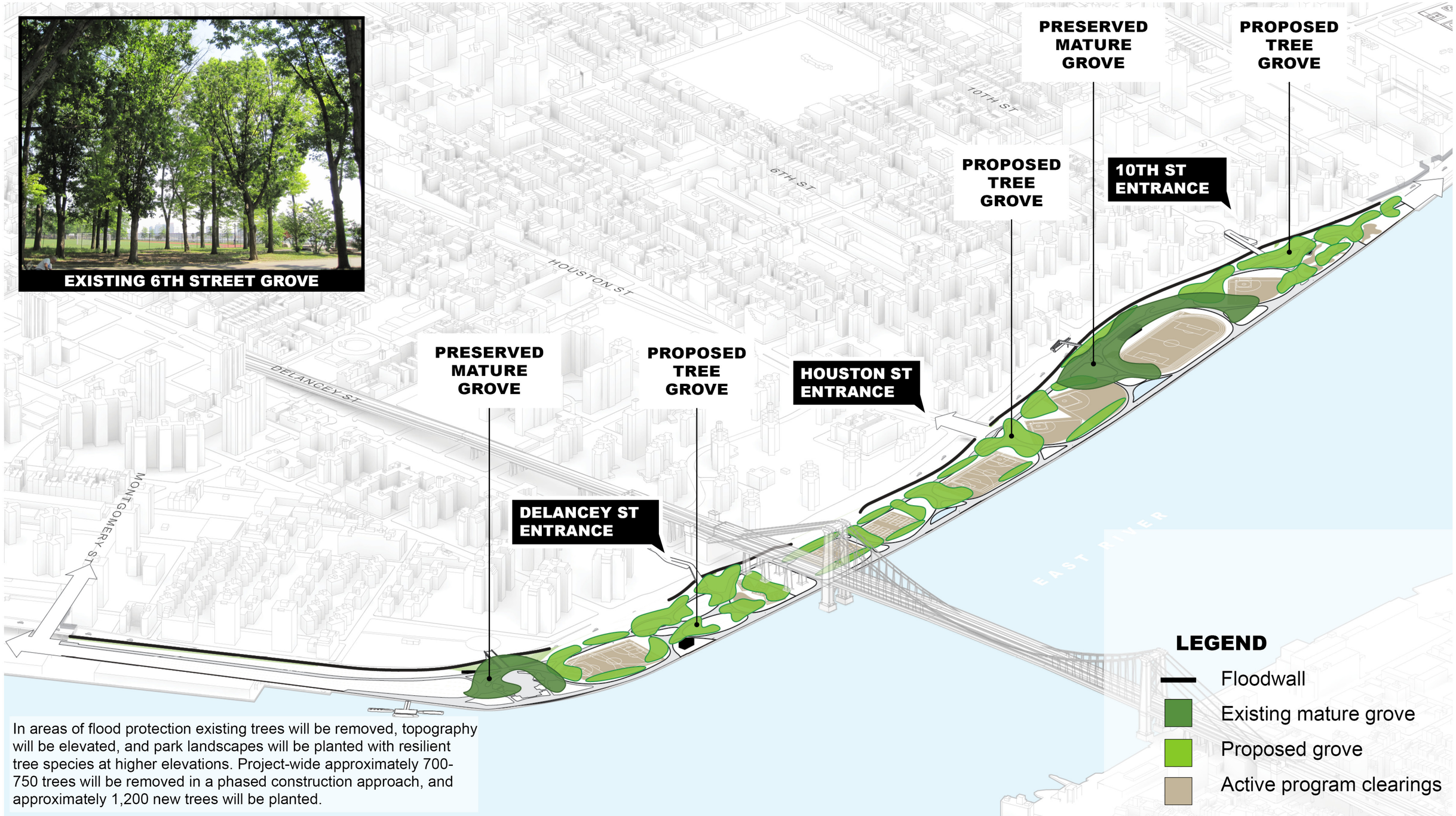


POST-SANDY CANOPY CHANGE

Tree #644

https://www.sciencedirect.com/science/article/pii/S016920461830286X

PRIOR PLANTING CONCEPT - MARCH 2018



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.

COMMUNITY BOARD 3 MEETING PRESENTATION: 3.15.2018

PROPOSED PLANTING CONCEPT

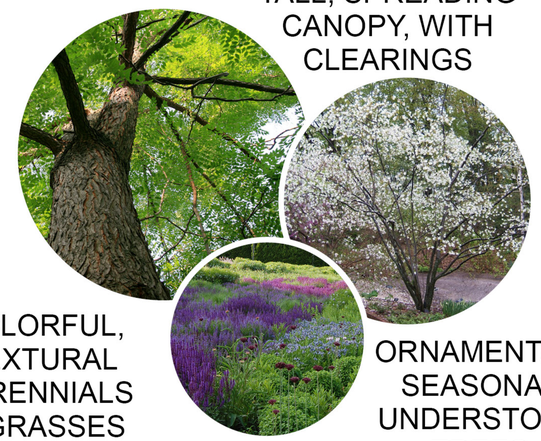
PROPOSED SPECIES & DISTRIBUTION FOR ECOLOGICAL RESILIENCE (52 SPECIES)

- ACER RUBRUM
- AESCULUS CARNEA
- AMELANCHIER CANADENSIS
- BETULA NIGRA
- CARYA GLABRA
- CARYA OVATA
- CATALPA SPECIOSA
- CELTIS OCCIDENTALIS
- CERCIS RENIFORMIS
- CERCIS CANADENSIS
- CHAMAECYPARIS THYOIDES
- CHIONANTHUS RETUSUS
- CRATAEGUS CRUS-GALLI
- CRATAEGUS VIRIDIS
- GINKGO BILOBA
- GLETITSIA TRIACANTHOS
- GYMNOCLADUS DIOICA
- HAMAMELIS VERNALIS
- HAMAMELIS VIRGINIANA
- ILEX OPACA
- JUNIPERUS VIRGINIANA
- LIQUIDAMBAR STYRACIFLUA
- MAGNOLIA GRANDIFLORA
- MAGNOLIA TRIPETULA
- MAGNOLIA VIRGINIANA
- METASEQUOIA GLYPTOSTROBOIDES
- NYSSA SYLVATICA
- PINUS RIGIDA
- PINUS VIRGINIANA
- PRUNUS SARGENTII
- PRUNUS SEROTINA
- PRUNUS SERRULATA
- PRUNUS X YEDOENSIS
- QUERCUS ALBA
- QUERCUS BICOLOR
- QUERCUS COCCINEA
- QUERCUS LYRATA
- QUERCUS MACROCARPA
- QUERCUS PALUSTRIS
- QUERCUS PHELLOS
- QUERCUS PRINOIDES
- QUERCUS RUBRA
- QUERCUS VELUTINA
- QURCUS NUTTALLI
- RHUS THYPINA
- SASSAFRAS ALBIDUM
- SYRINGA RETICULATA
- SYRINGULA VULGARIS
- TAXODIUM DISTICHUM
- TILIA AMWERICANA
- ULMUS X ACCOLADE
- ULUMUS AMERICANA

PLANTING CONCEPT

TALL, SPREADING CANOPY, WITH DAPPLED SHADE

CLEAR UNDERSTORY, OPEN LAWN



TALL, SPREADING CANOPY, WITH CLEARINGS

COLORFUL, TEXTURAL PERENNIALS & GRASSES

ORNAMENTAL, SEASONAL UNDERSTORY TREES

TALL, SPREADING CANOPY, WITH SHADE

DENSE SHRUB LAYER

VEIL OF MULTI-STEM UNDERSTORY TREES

PASTORAL GROVE

LAYERED GROVE

THICKENED GROVE

PLANTING CONCEPT

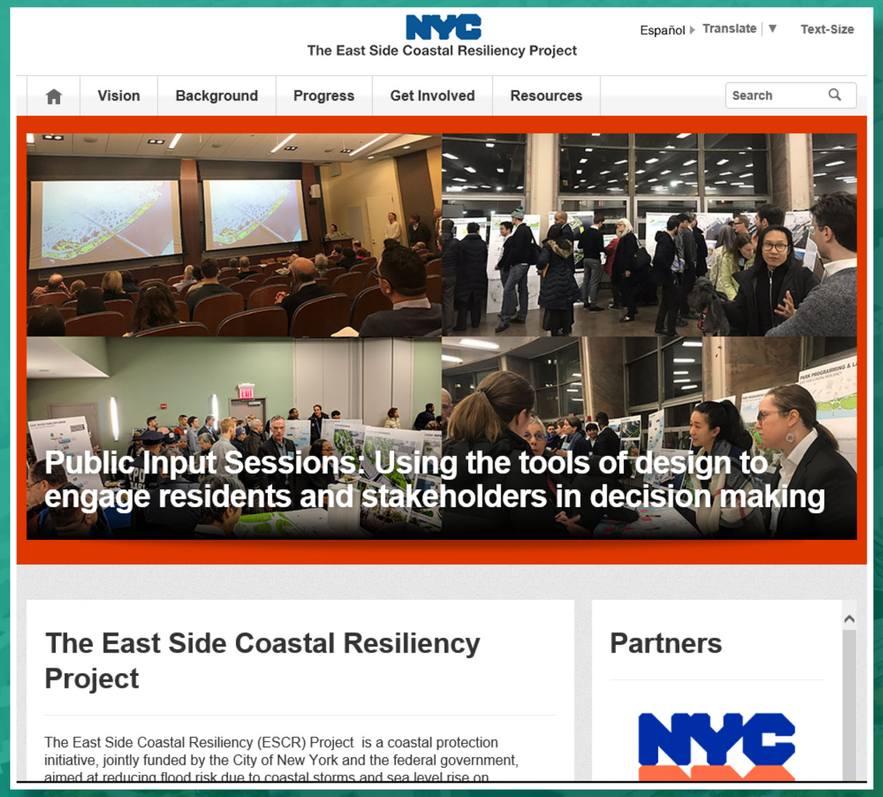
RENDERING DEPICTS VARIANCE IN TREE SPECIES GROWTH RATES. TREES ARE REPRESENTED WITH 10-20 YEARS OF GROWTH

PLANTING CONCEPT

HOUSTON STREET AREA
CONCEPTUAL PLAN

Q & A

Website



Visit Us!
www.nyc.gov/escr

Twitter: @NYClimate