

# East Side Coastal Resiliency

Gouverneur Gardens Resident Association

April 15, 2019

Community Room  
605 Water Street





# AGENDA

**PROJECT UPDATES**

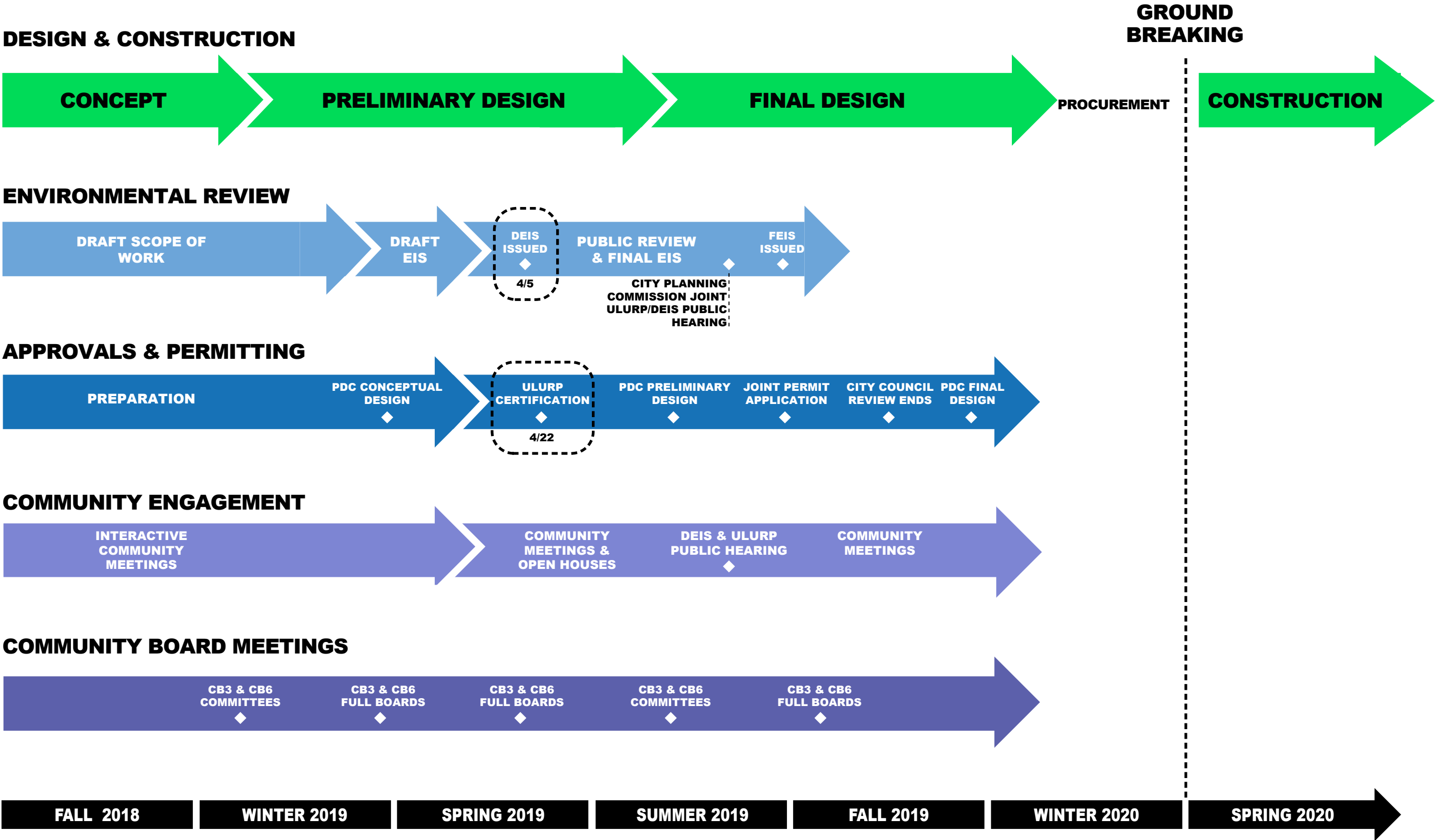
**DESIGN WALKTHROUGH**

**GOUVERNEUR GARDENS UPDATE**

**ENVIRONMENTAL REVIEW AND APPROVALS**



# CONSTRUCTION & COMMUNITY ENGAGEMENT TIMELINE





# RECENT & PLANNED COMMUNITY ENGAGEMENT

## MEETINGS TO DATE

### STAKEHOLDER

- HUD
- Con Ed
- Interactive Community Meetings
- NYCHA TA Leadership
- NYCHA Riis Residents
- NYCHA LES II and V and Bracetti Plaza Residents
- NYCHA Baruch Residents
- LESReady!
- New Yorkers for Parks
- LUNGS
- Regional Plan Association
- Rebuild by Design
- Lower East Side Ecology Center
- Lower East Side Power Partnership
- Amphitheater Working Group
- East River Alliance
- Solar One
- Stuyvesant Town and Peter Cooper Village Tenant Association
- Friends of Corlears Hook Park
- NYCHA Riis Residents
- East River Housing Corporation Board
- Gouverneur Gardens Residents

## COMMUNITY BOARD & ELECTED OFFICIALS MEETINGS

- City and State Elected Officials
- CB3 Leadership
- CB6 Leadership
- CB3 Parks Committee
- CB6 Land Use/Waterfront Committee
- CB6 Working Group
- CB3 Working Group
- CB3 Parks Committee

## PLANNED MEETINGS

### STAKEHOLDER

- Solar One Planting
- East 20th Street Walk Through with Residents
- East River Alliance
- Waterside Plaza Management
- Waterside Plaza Tenants Association
- Stuyvesant Cove Park Association
- Open Houses
- Other NYCHA Campuses
- East River Housing Corporation Residents

## COMMUNITY BOARD & ELECTED OFFICIALS MEETINGS

- CB6 Land Use/Waterfront Committee
- CB6 Parks Committee
- CB3 Full Board
- CB6 Full Board



## 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.**

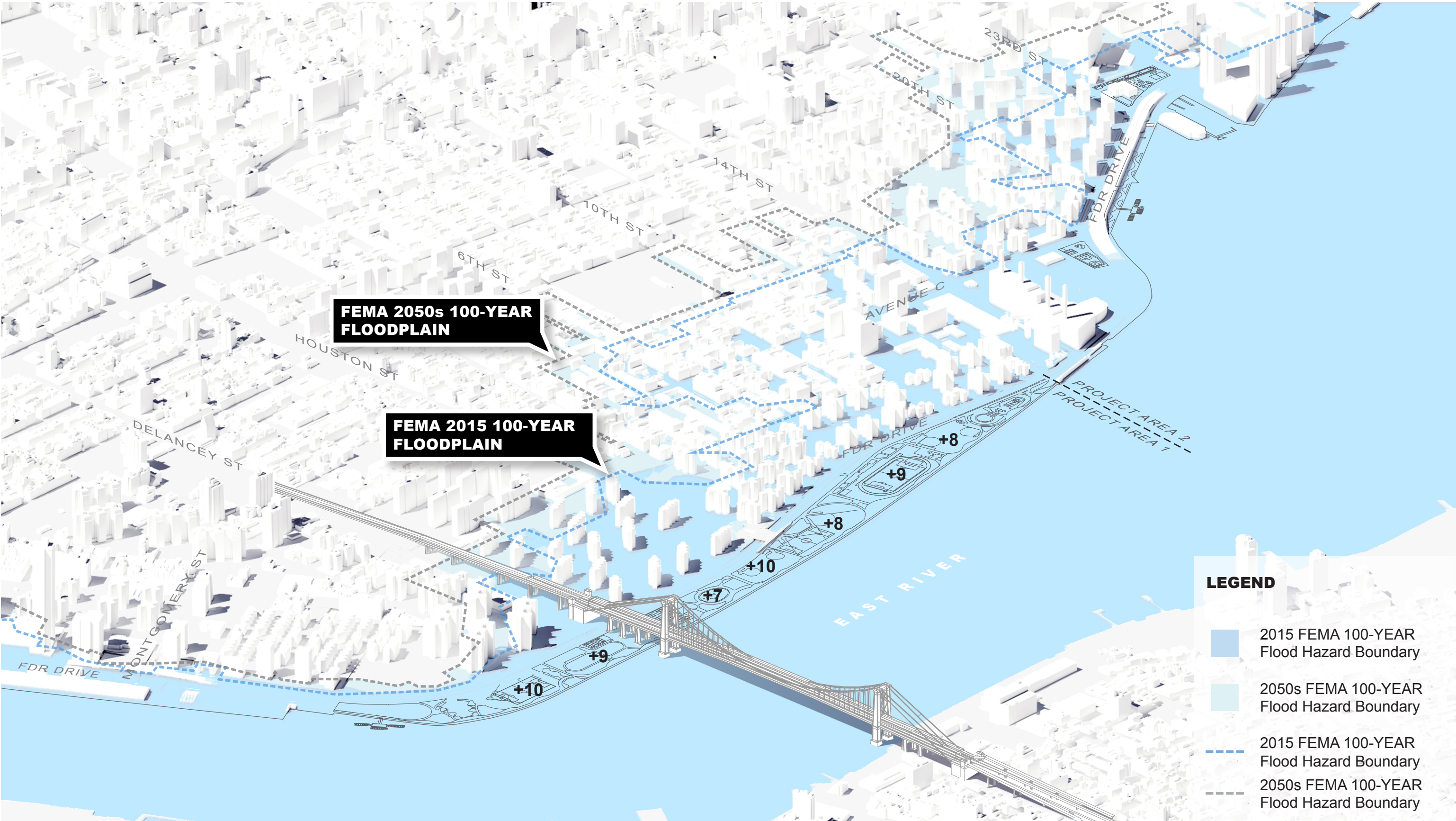
**Respond quickly to the urgent need for increased flood protection and resiliency.**





# CURRENT AND 2050s 100-YEAR FLOODPLAINS

STUDY AREA



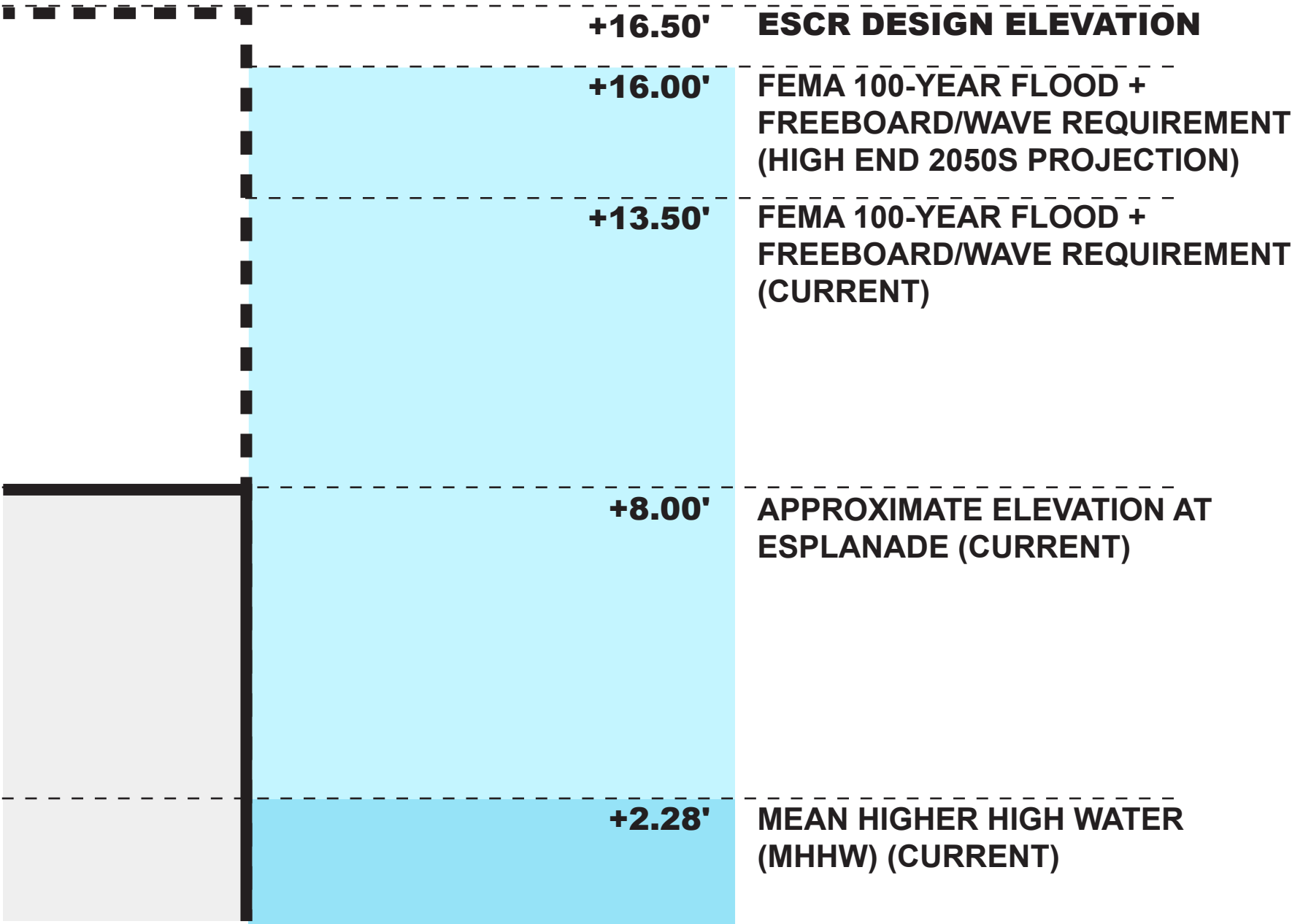


# IMPROVED PARK RESILIENCY

## 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**



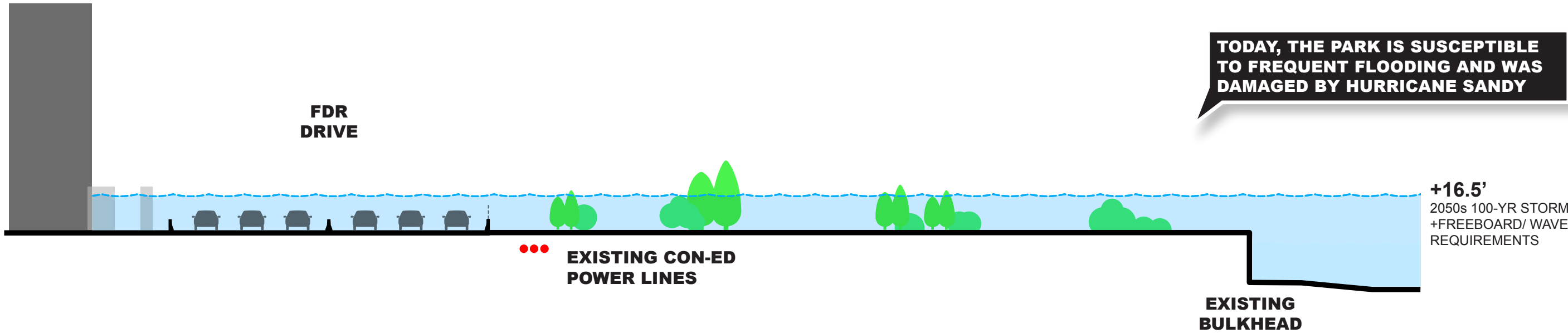
NOTE: ALL ELEVATIONS SHOWN IN NAVD88



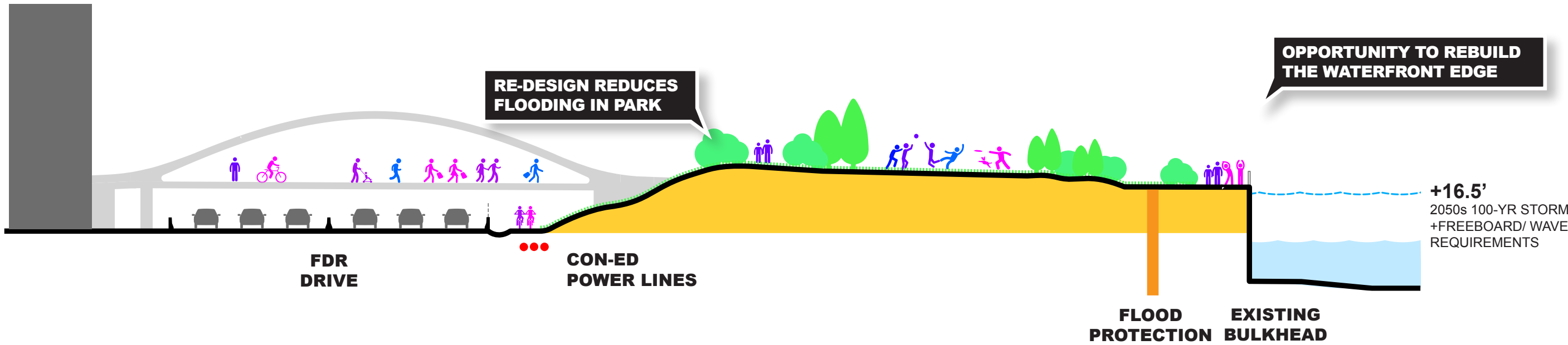
# IMPROVED PARK RESILIENCY

PARK RAISED ABOVE THE 2050s 100-YEAR FLOODPLAIN

## EXISTING CONDITIONS



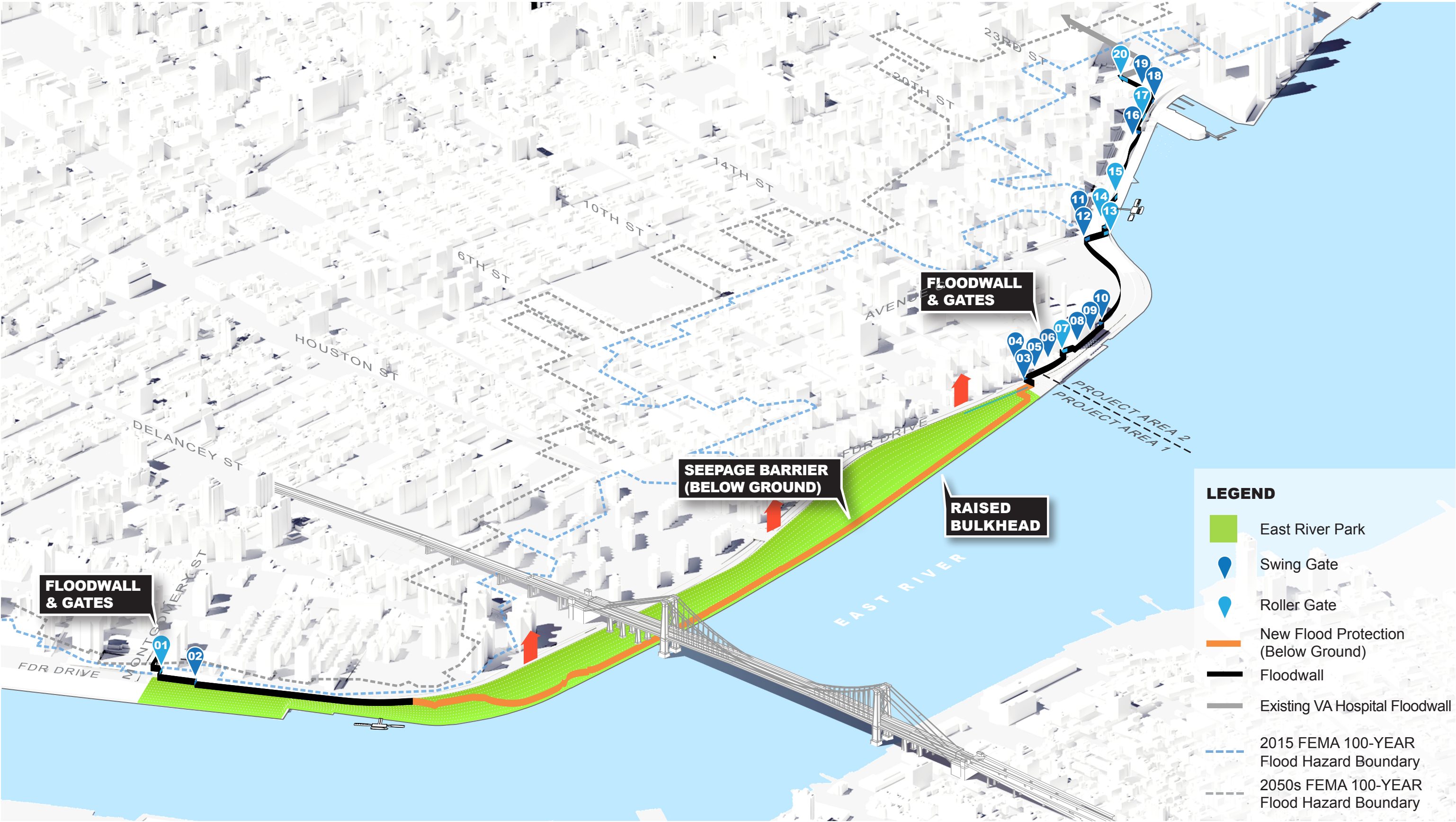
## CURRENT PLAN





# IMPROVED RESILIENCY

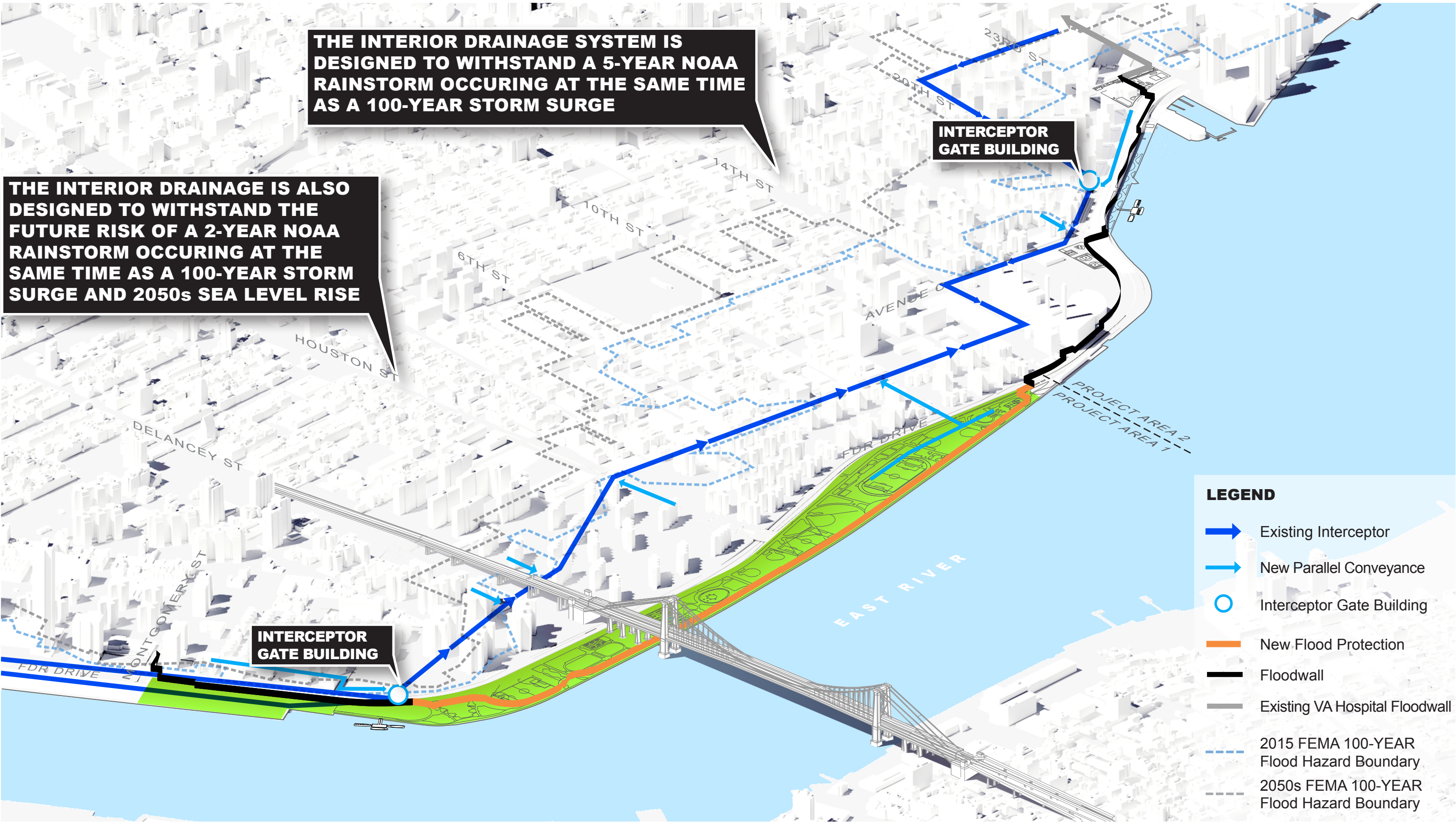
## PARK & FLOOD PROTECTION





# IMPROVED RESILIENCY

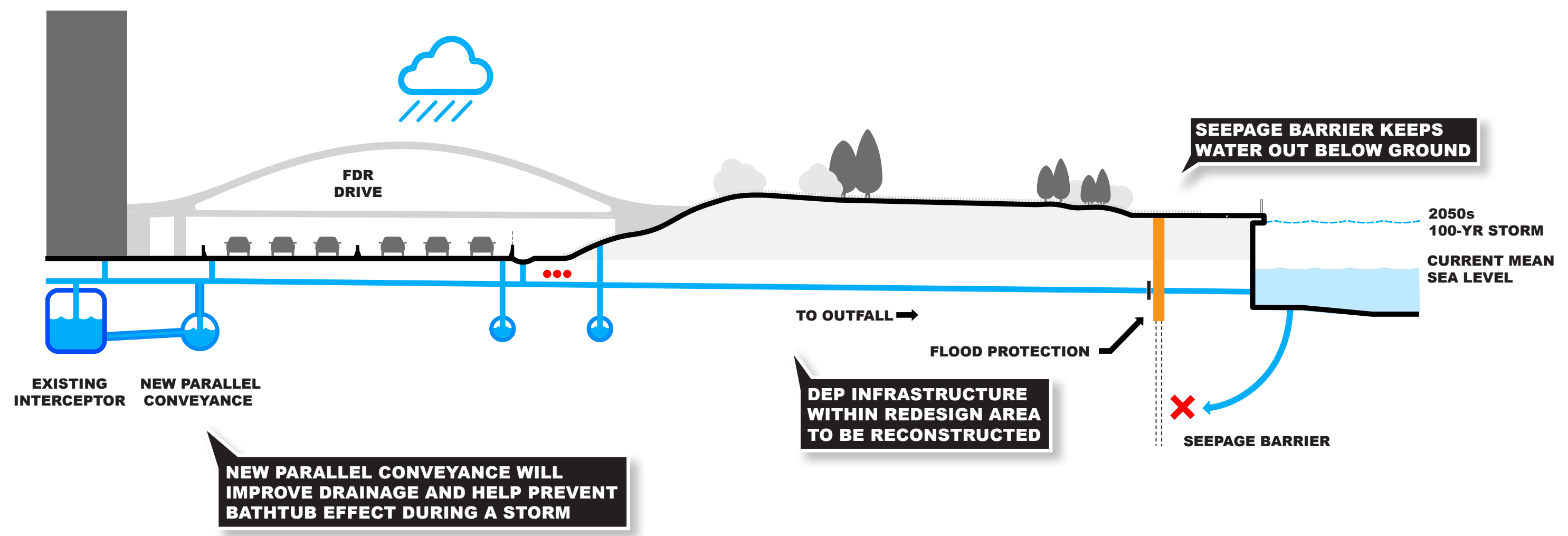
ENHANCING DRAINAGE INFRASTRUCTURE THROUGHOUT THE STUDY AREA





# IMPROVED DRAINAGE

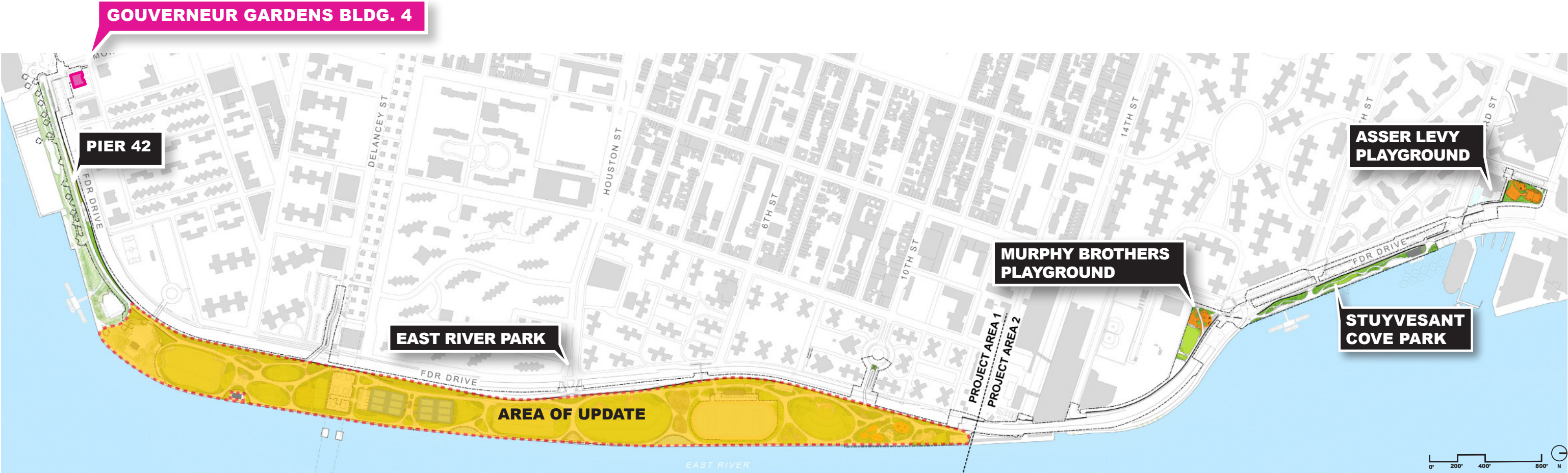
SEWER IMPROVEMENTS TO REDUCE UPLAND FLOODING





# AREA OF DESIGN CHANGES

EAST SIDE COASTAL RESILIENCY PROJECT





# CURRENT PLAN

## PROJECT GOALS



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



# AGENDA

PROJECT UPDATES

**DESIGN WALKTHROUGH**

GOUVERNEUR GARDENS UPDATE

ENVIRONMENTAL REVIEW AND APPROVALS



# EAST RIVER PARK

CONCEPTUAL PLAN

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

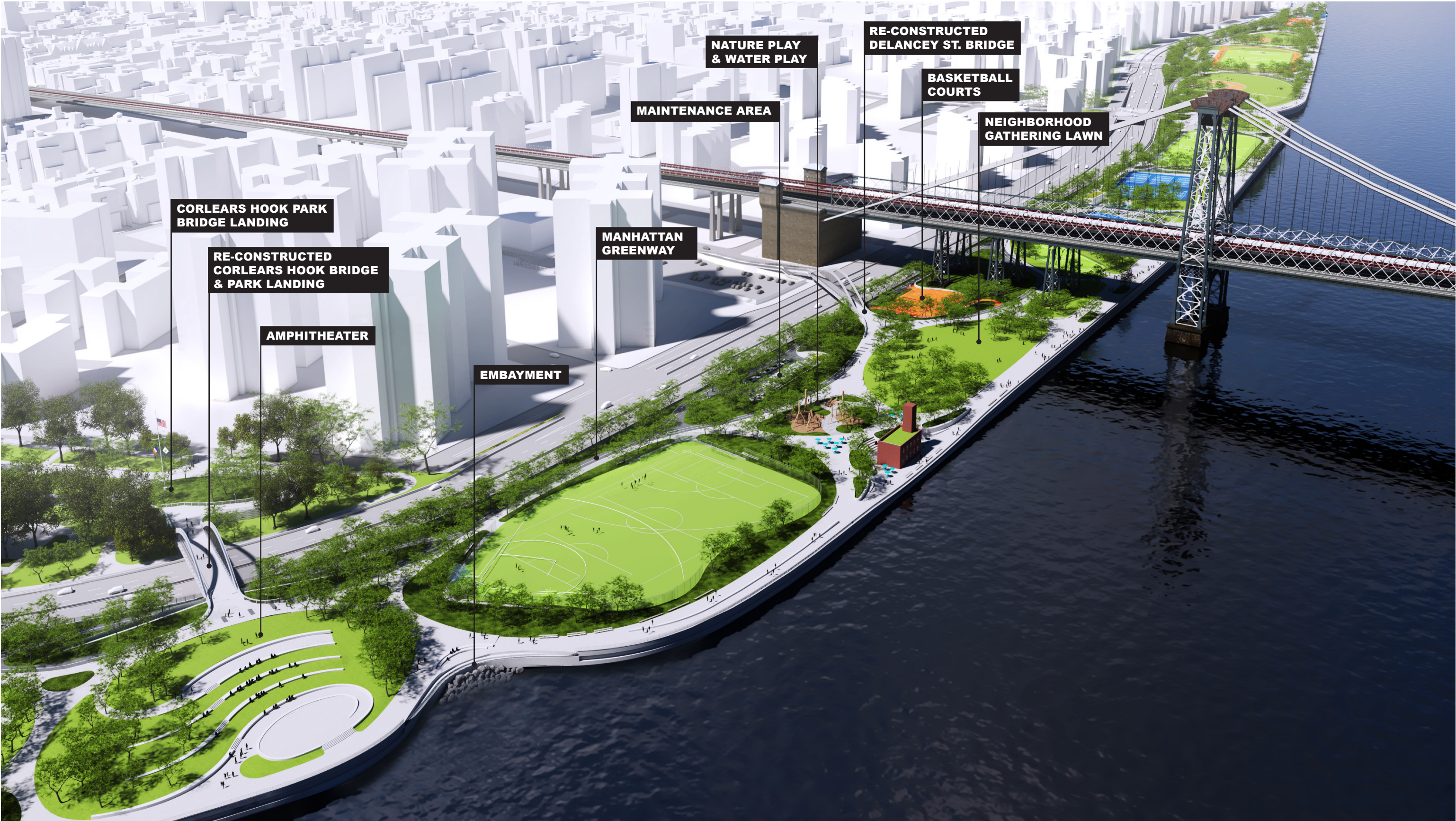
AREA 2: HOUSTON STREET

AREA 1: CORLEARS HOOK TO DELANCEY STREET



# AREA 1: CORLEARS HOOK TO DELANCEY STREET

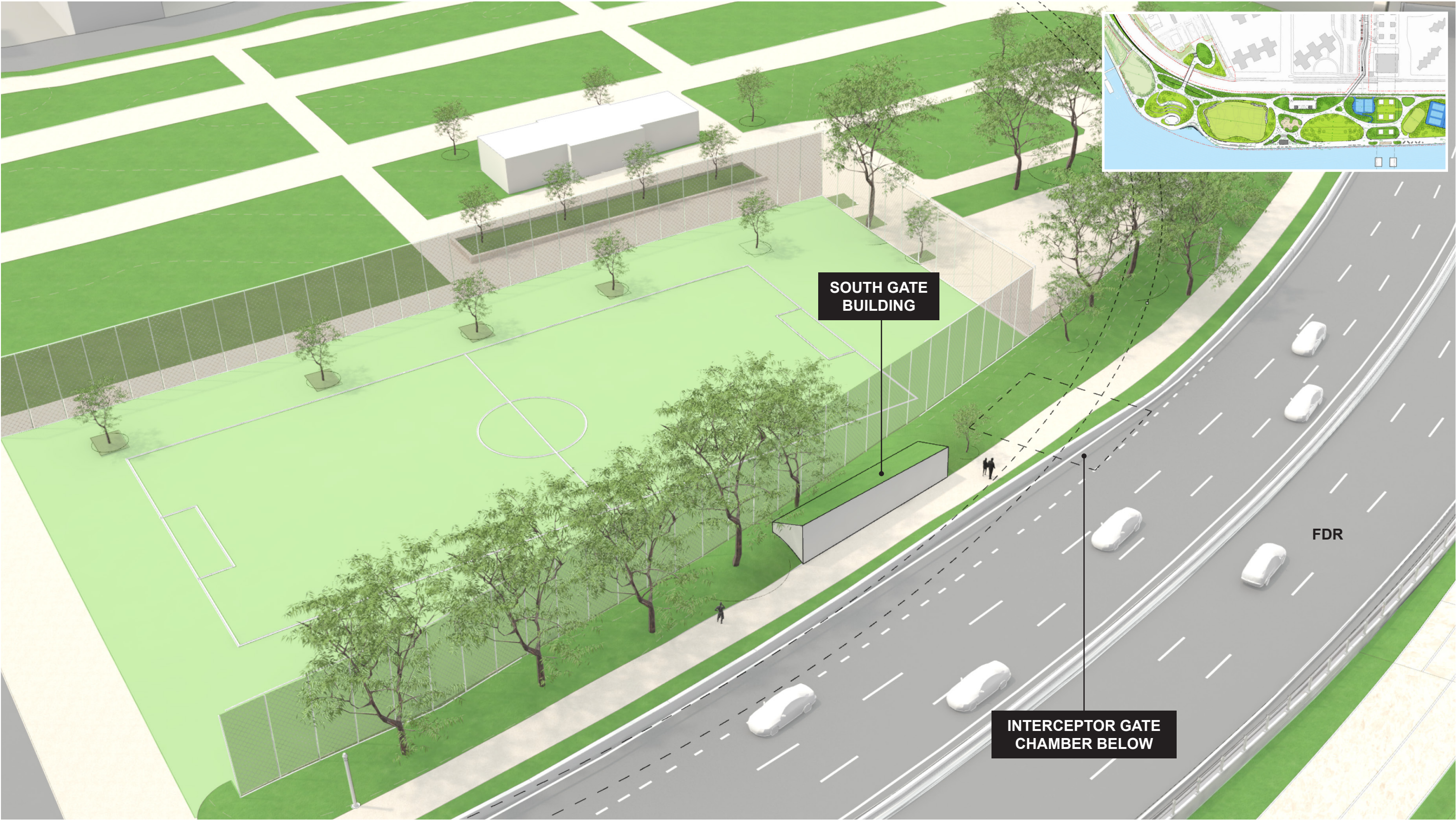
CONCEPTUAL PLAN





# CORLEARS HOOK PARK

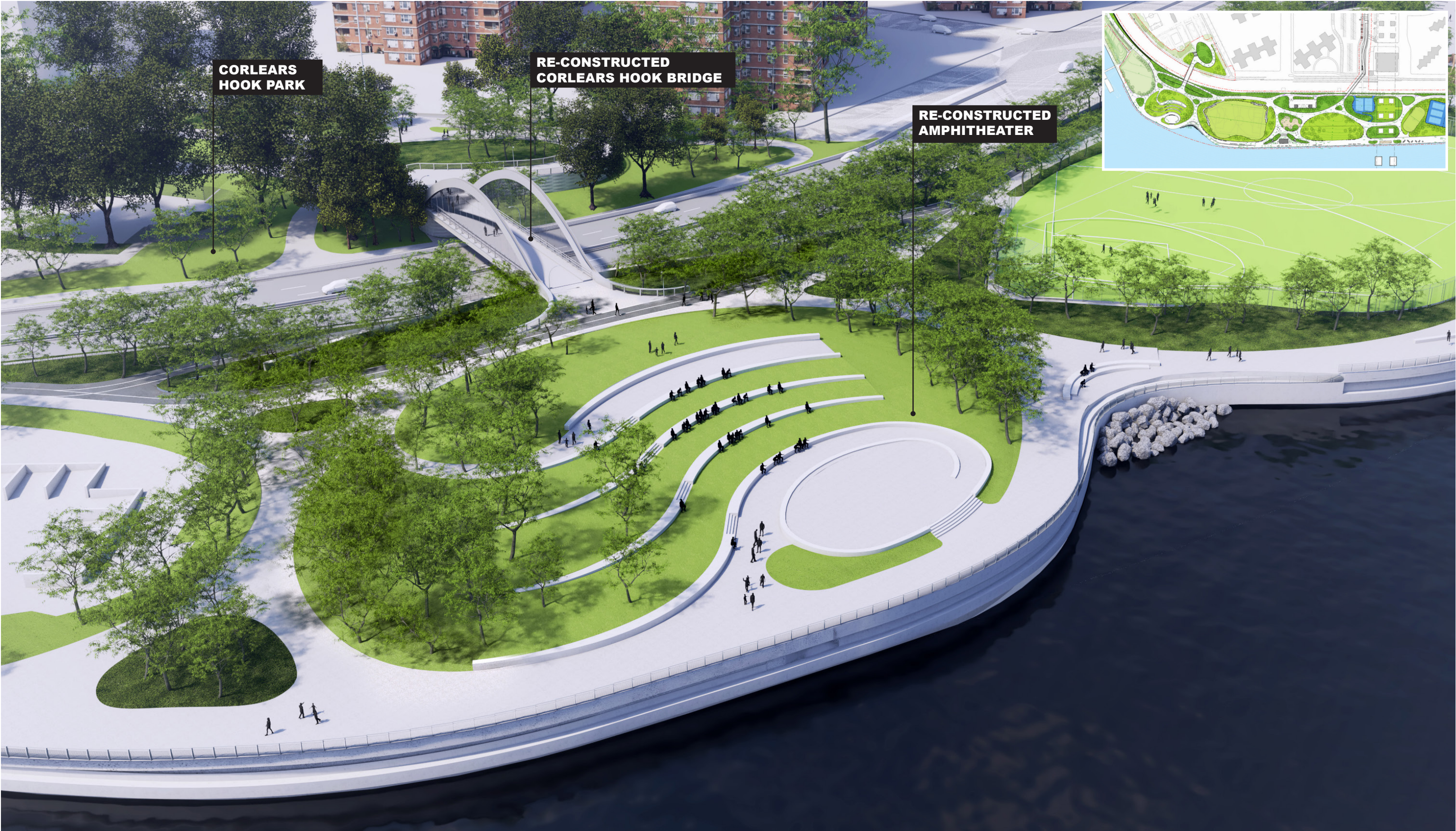
SOUTH INTERCEPTOR GATE CHAMBER BUILDING





# AMPHITHEATER

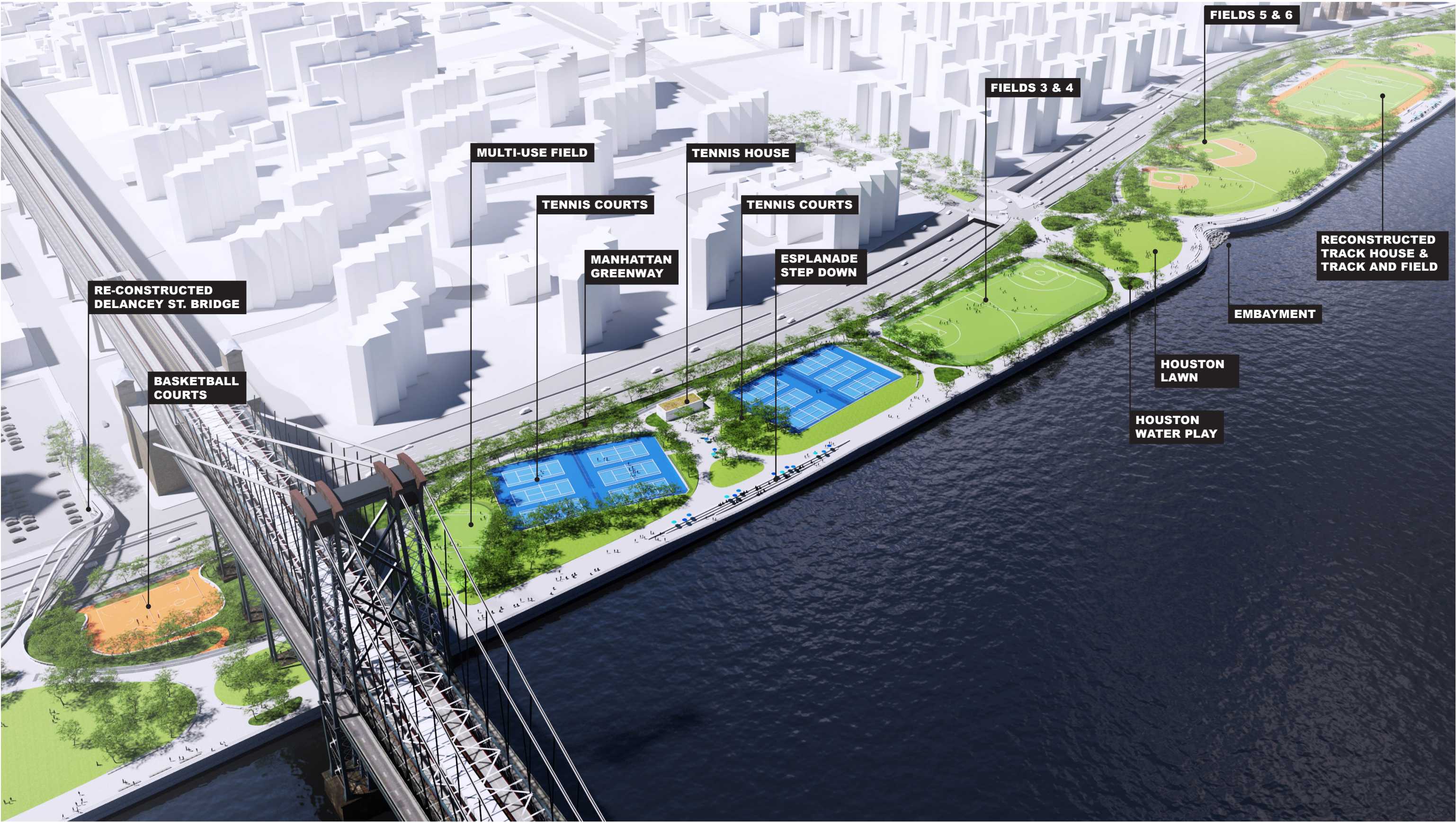
CONCEPTUAL PLAN





# AREA 2: HOUSTON STREET

CONCEPTUAL PLAN





# HOUSTON STREET ENTRY

CONCEPTUAL PLAN





# AREA 3: TRACK & EAST 10TH STREET

CONCEPTUAL PLAN





# TRACK & FIELD

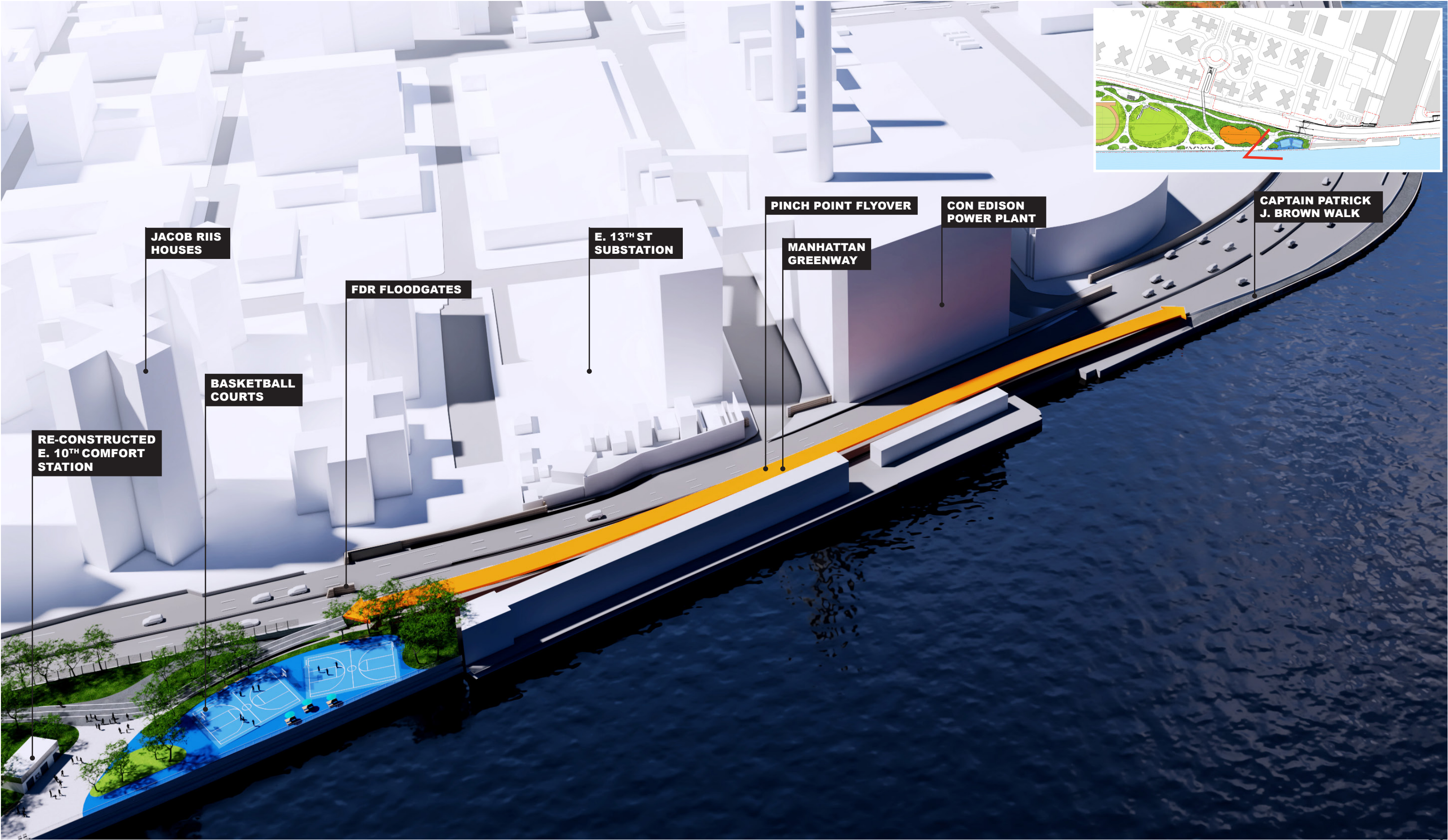
CONCEPTUAL PLAN





# PINCHPOINT FLYOVER BRIDGE

CONCEPTUAL ALIGNMENT



JACOB RIIS  
HOUSES

FDR FLOODGATES

E. 13<sup>TH</sup> ST  
SUBSTATION

PINCH POINT FLYOVER

MANHATTAN  
GREENWAY

CON EDISON  
POWER PLANT

CAPTAIN PATRICK  
J. BROWN WALK

BASKETBALL  
COURTS

RE-CONSTRUCTED  
E. 10<sup>TH</sup> COMFORT  
STATION



# AGENDA

PROJECT UPDATES

DESIGN WALKTHROUGH

**GOUVERNEUR GARDENS UPDATE**

ENVIRONMENTAL REVIEW AND APPROVALS



# COMMUNITY ENGAGEMENT SUMMARY

## MEETINGS WITH GOUVERNEUR GARDENS

### MEETINGS DATES TO DATE:

- September 15, 2016
- January 17, 2017
- November 6, 2017
- February 27, 2018

### WHAT WE'VE HEARD:

- Preference for an informal, curvilinear garden layout with a path
- Maintain the memorials currently located in the garden
- Salvage hardscape materials that are currently in the garden
- Keep bulbs and roses in the planting design
- Choose plants that will not provide shelter for rodents
- Create a shared garden space that everyone can use
- Provide a space for tool storage and composting
- Preference for a flowering tree if there is enough space

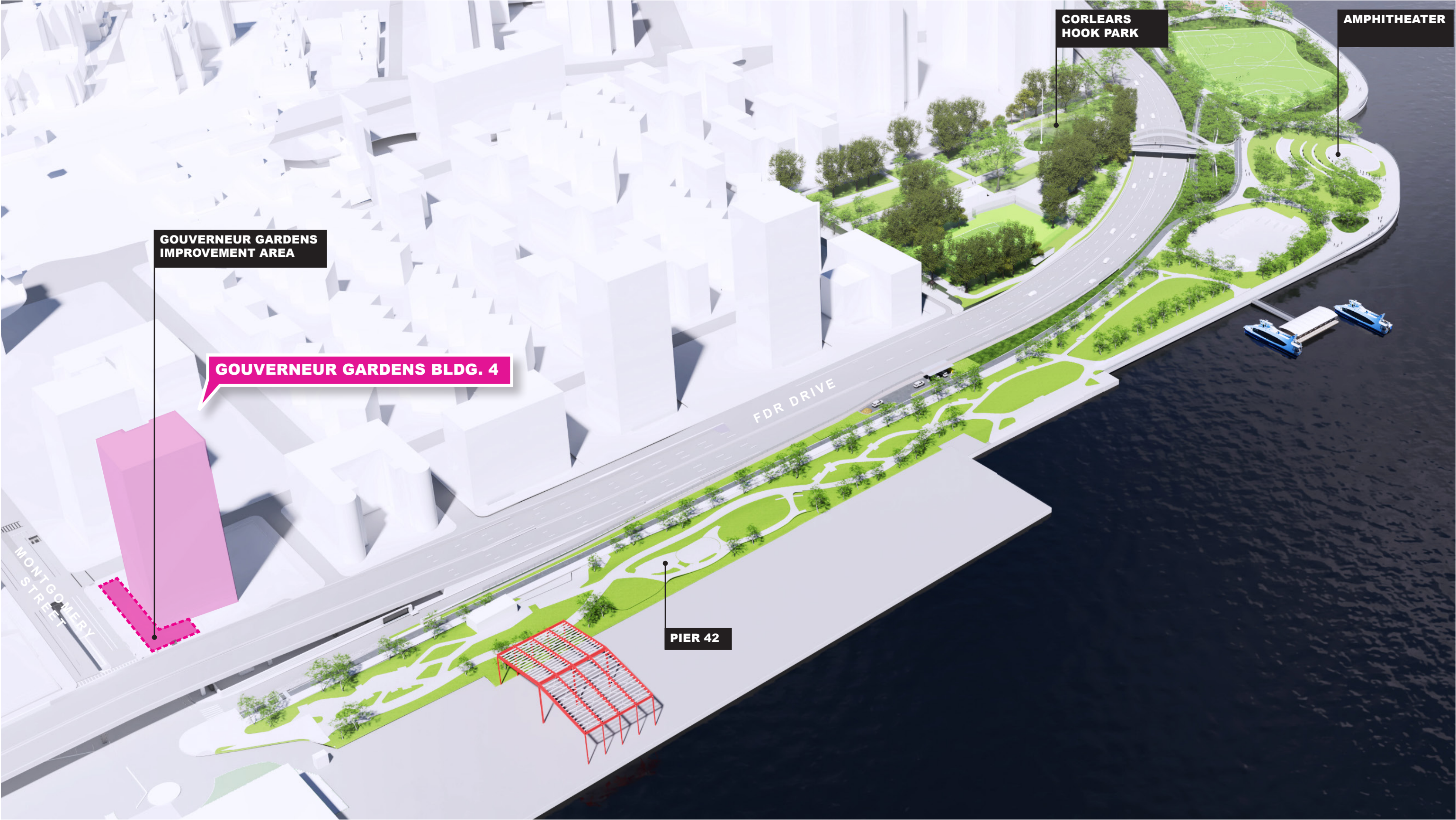


**WORKING WITH RESIDENTS  
WHO ARE INTERESTED  
IN GARDENING AREAS  
AROUND THE BUILDING**



# GOUVERNEUR GARDENS AREA

CONCEPTUAL PLAN





# FLOOD PROTECTION

## MONTGOMERY STREET TIE-BACK



**FLOODWALL**  
TOP OF WALL: EL. +16.5  
WALL HT: APPROX. 1.5'

**FLOODWALL**  
TOP OF WALL: EL. +16.5  
WALL HT: APPROX. 4.5'

**FLOOD GATE IN  
OPEN POSITION**

**DESIGN TEAM IS STUDYING  
FLOODWALL FINISHES**



# FLOOD PROTECTION

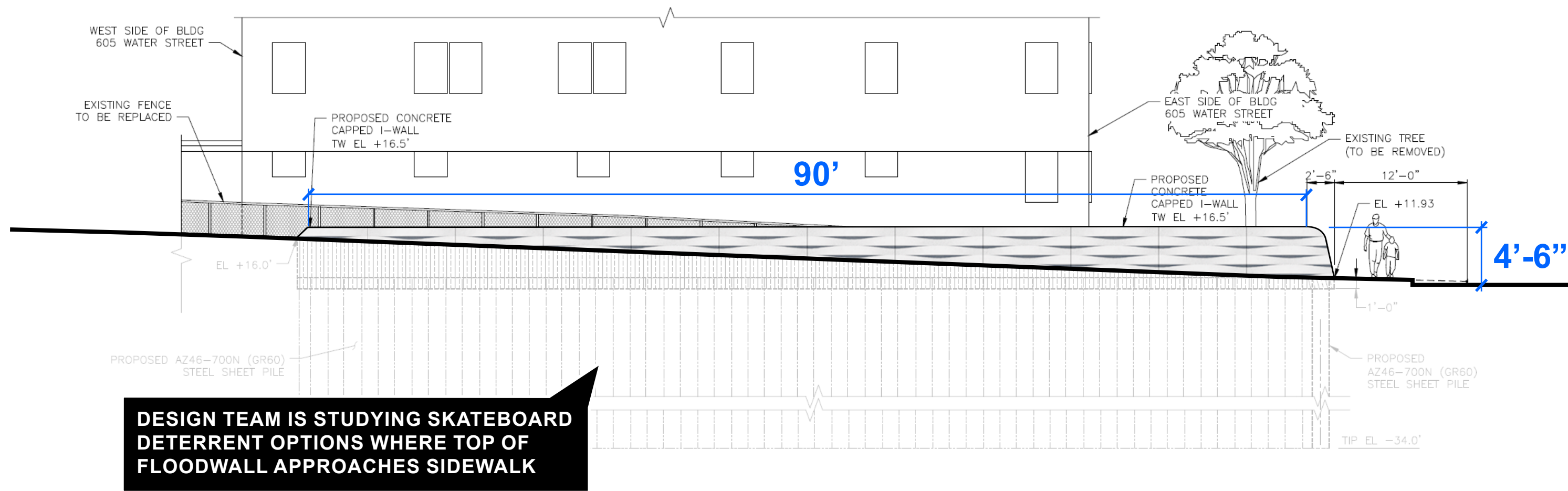
MONTGOMERY STREET TIE-BACK





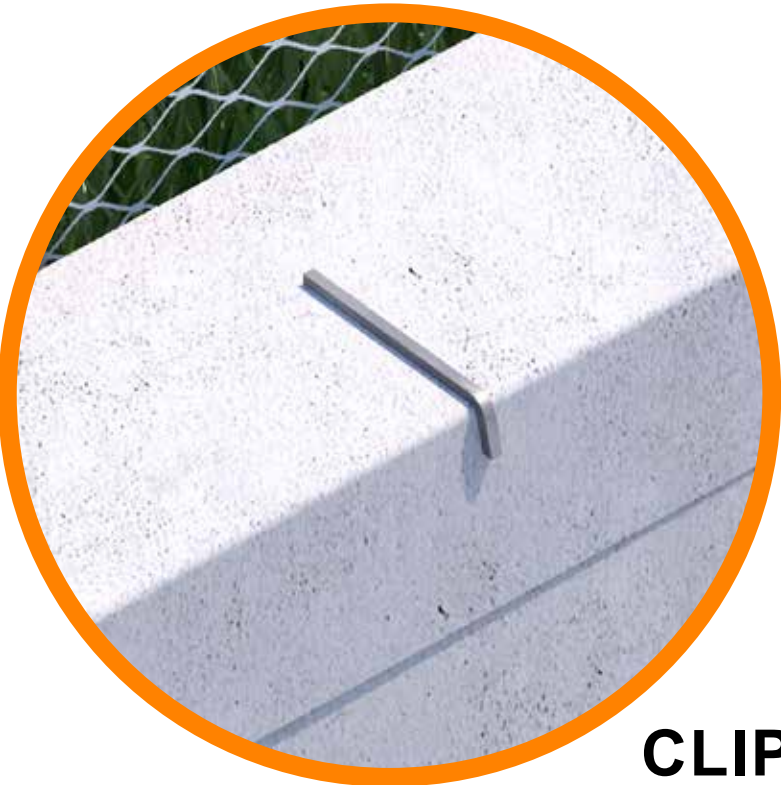
# FLOOD PROTECTION

FINISHES AND SKATEBOARD DETERRENTS

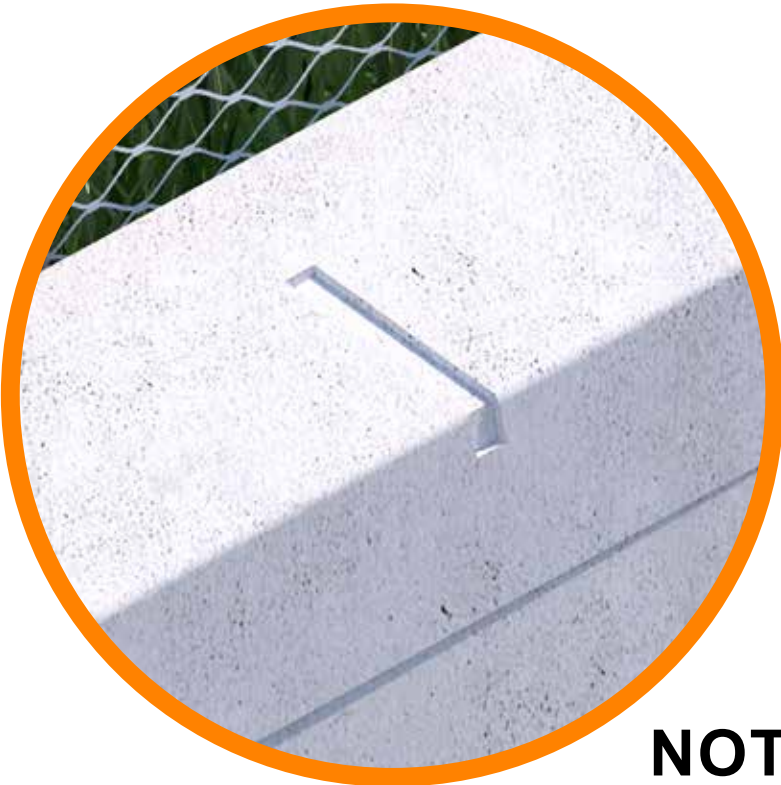




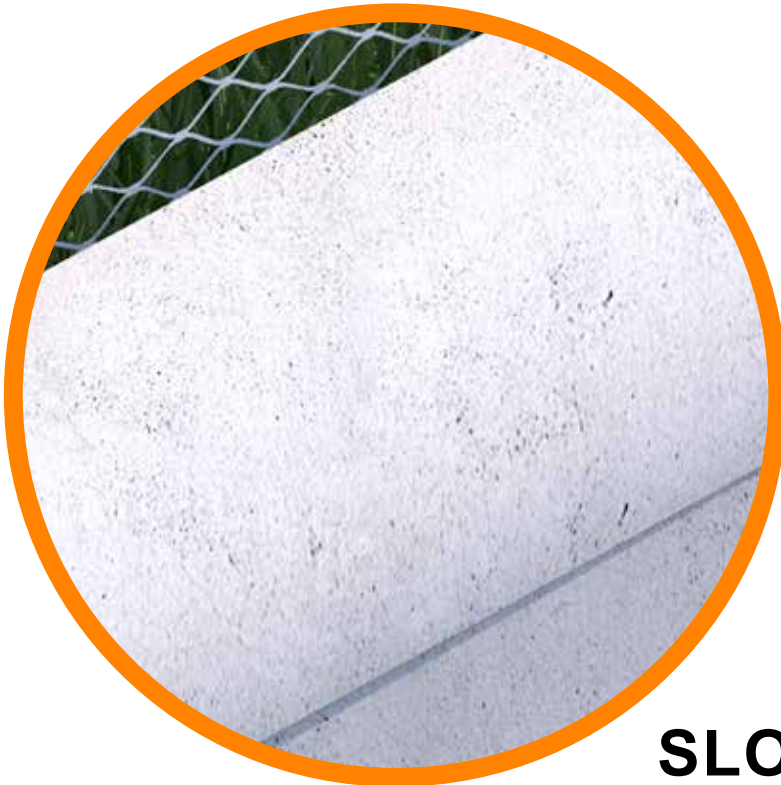
**FLOOD PROTECTION**  
FINISHES AND SKATEBOARD DETERRENTS



**CLIP**



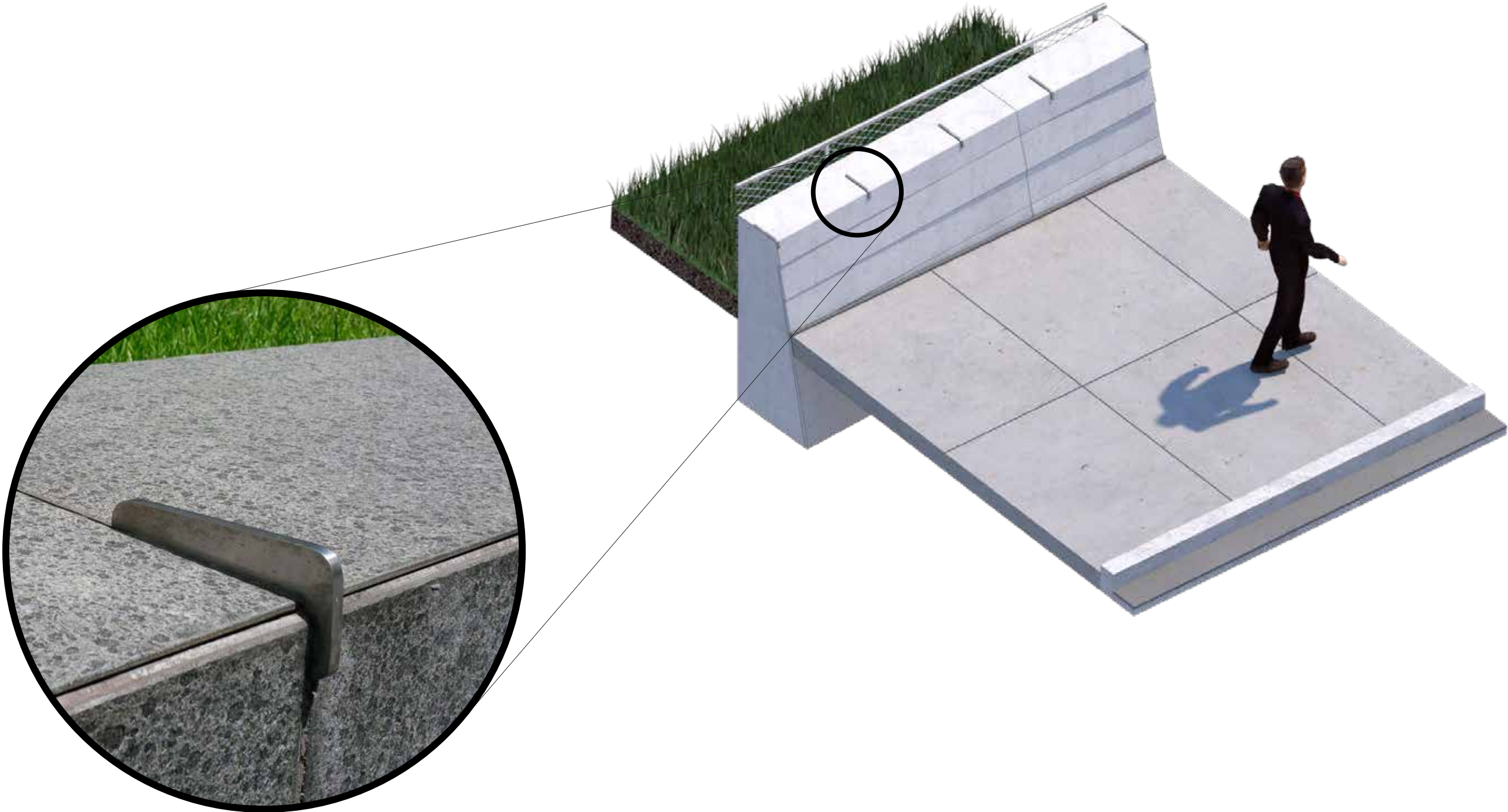
**NOTCH**



**SLOPE**

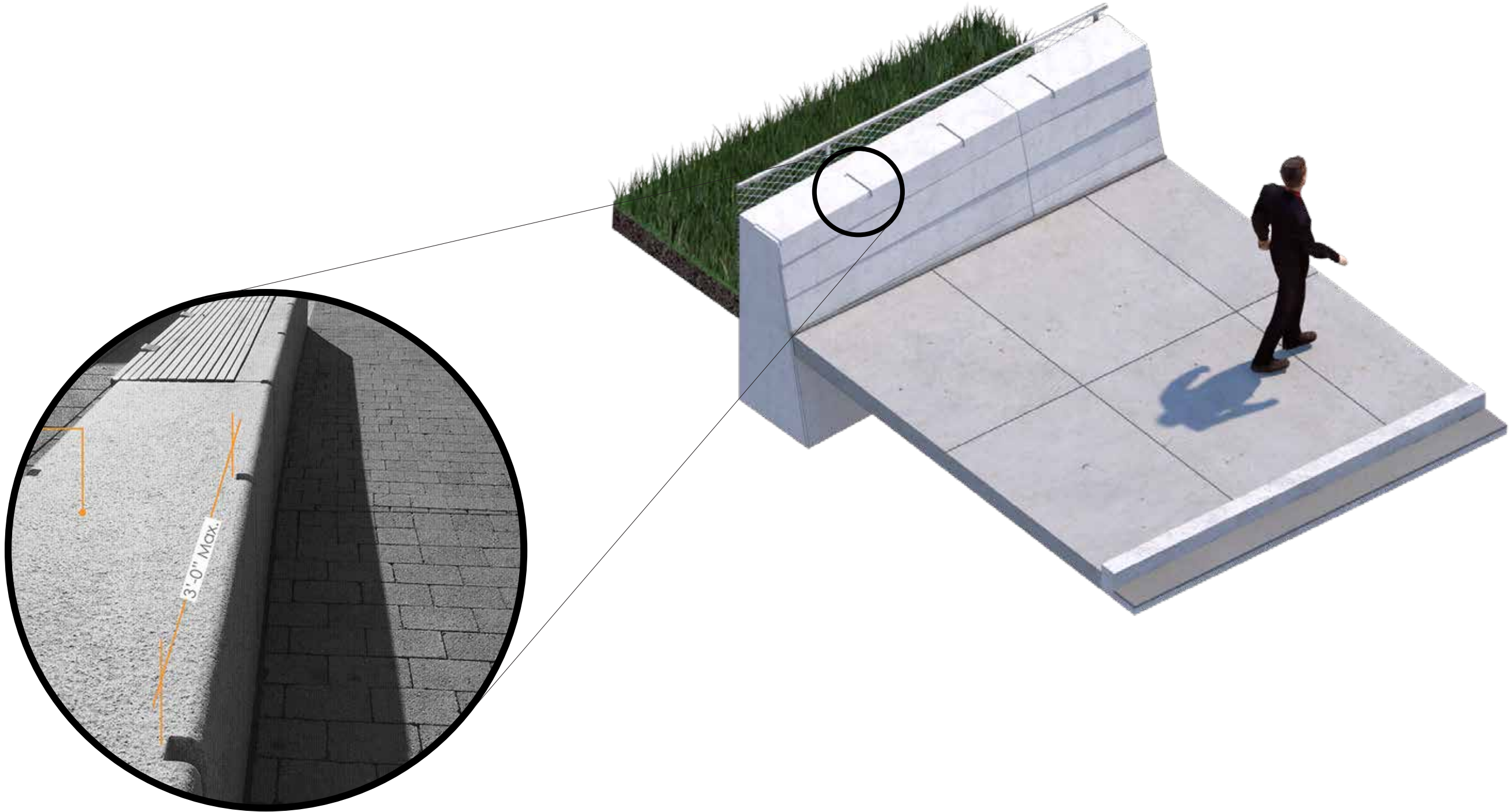


**FLOOD PROTECTION**  
FINISHES AND SKATEBOARD DETERRENTS



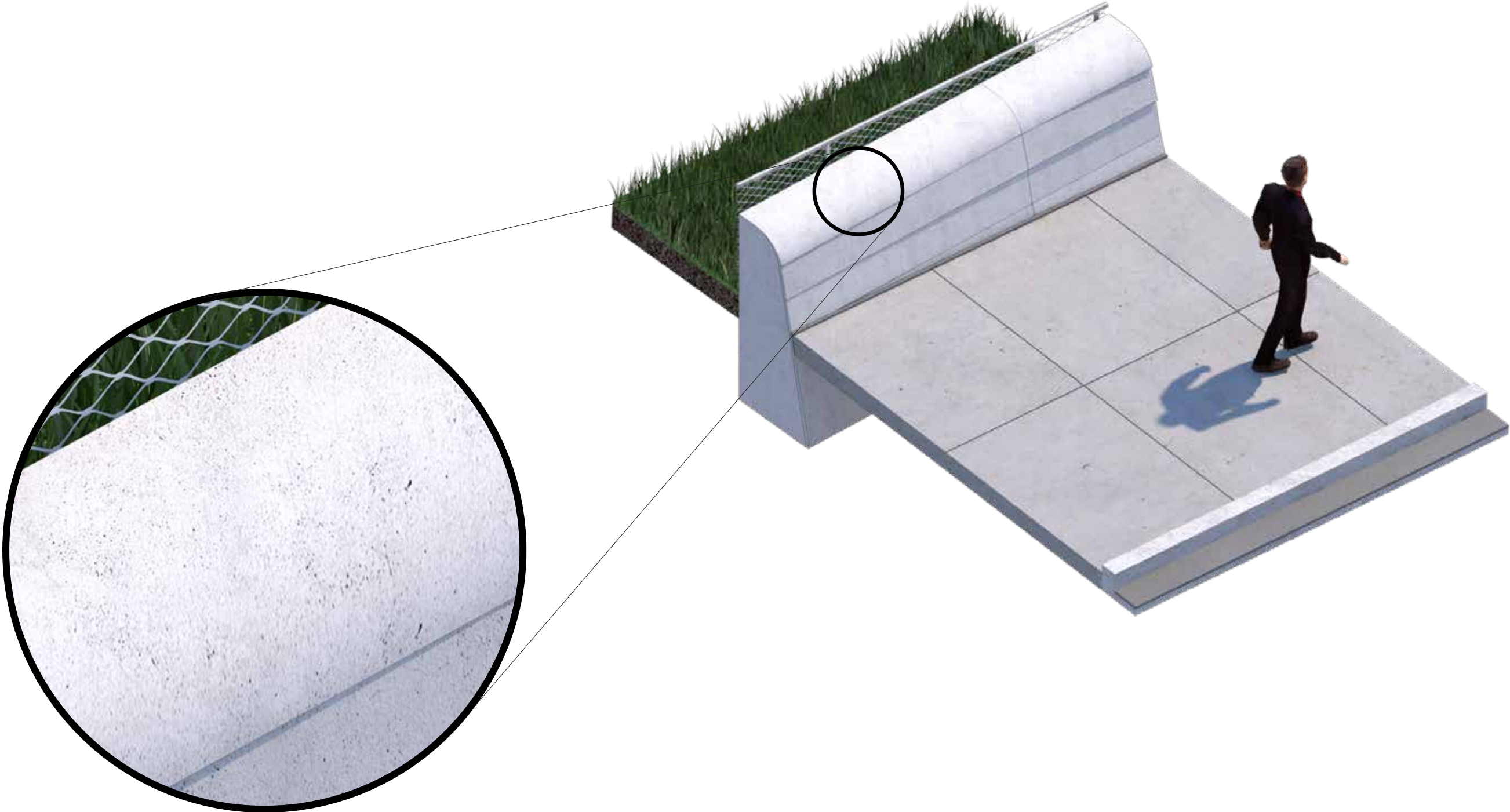


**FLOOD PROTECTION**  
FINISHES AND SKATEBOARD DETERRENTS





**FLOOD PROTECTION**  
FINISHES AND SKATEBOARD DETERRENTS

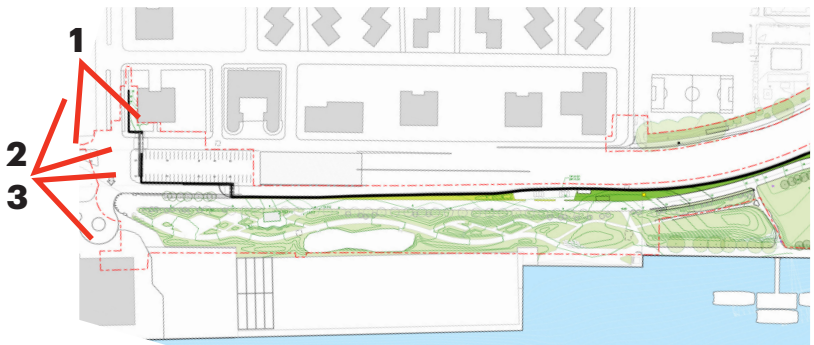




# LIGHTING

## MONTGOMERY STREET & FDR CROSSING - EXISTING CONDITIONS

WE HAVE HEARD THE COMMUNITY CONCERN THAT LIGHTING UNDER THE FDR IS INSUFFICIENT



1. MONTGOMERY STREET LOOKING EAST



2. UNDER FDR LOOKING NORTHWEST



3. MONTGOMERY STREET LIGHT FIXTURE



# LIGHTING

NEW FDR LIGHTING SOUTH OF PROJECT AREA

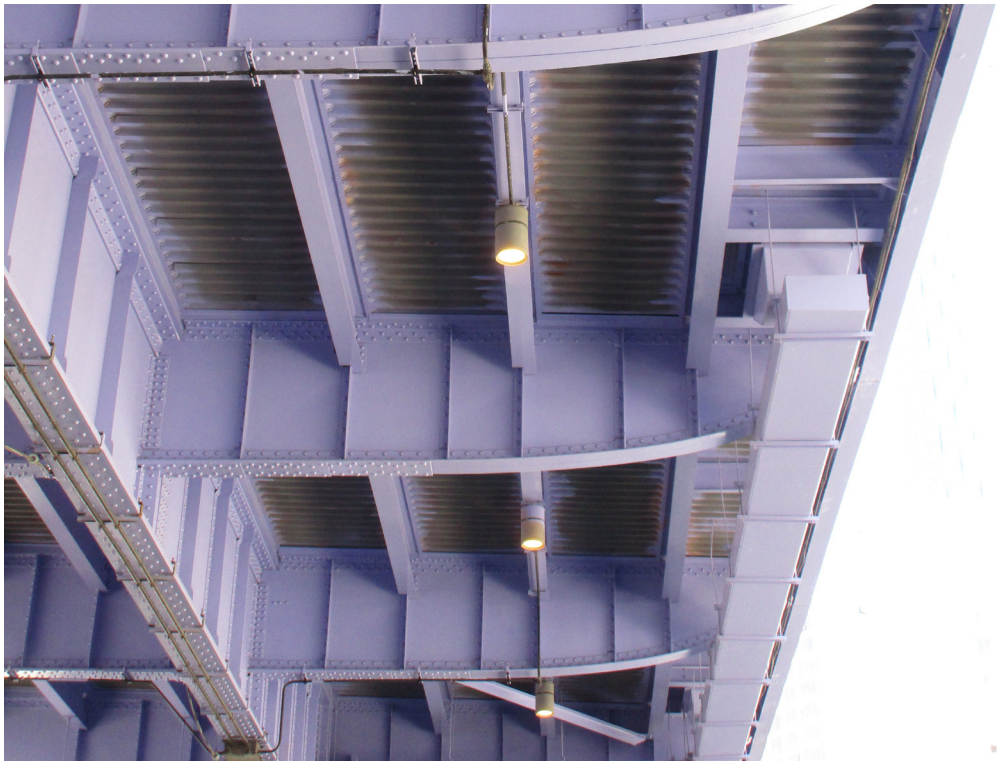
LIGHTING UNDER FDR  
RECENTLY UPDATED SOUTH  
OF RUTGERS STREET

THE ESCR DESIGN TEAM WILL EXPLORE:

- CONDUCTING LIGHTNG STUDIES
- COORDINATION NEEDED TO INSTALL NEW LIGHTING



1. RUTGERS STREET LOOKING SOUTH



2. RUTGERS STREET LOOKING SOUTH



3. RUTGERS STREET LIGHT FIXTURE

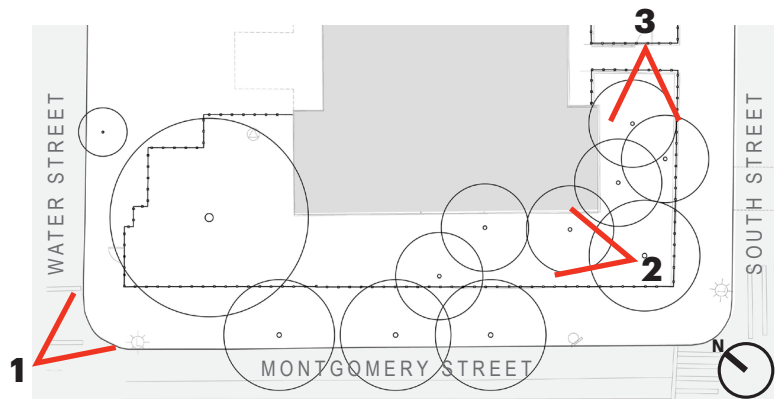


# PLANTING AREA

EXISTING CONDITIONS

EXISTING LARGE  
TREE TO REMAIN

SITE SLOPES SIGNIFICANTLY  
TO THE EAST



1. ENTRY GATE FACING EAST

Image taken 06/07/2016



2. GARDEN AREA FACING WEST

Image taken 02/27/2018



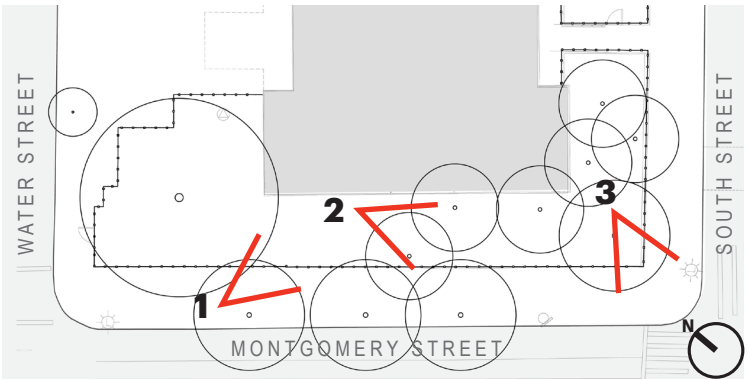
3. SOUTH STREET LAWN FACING SOUTH

Image taken 02/27/2018



# PLANTING AREA

EXISTING CONDITIONS



1. SUMMER FLOWERING SHRUBS



2. RECLAIMED COBBLE PATHWAY



3. GARDEN BED WITH SPRING BULBS

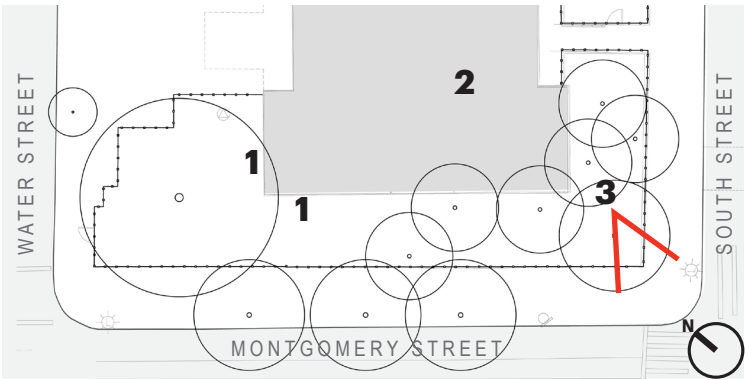


# IMPORTANT GARDEN FEATURES

EXISTING CONDITIONS

PRESERVE VIEWS TO  
MEMORIAL PLAQUES

REUSE EXISTING  
COMPOST BIN



1. MEMORIAL PLAQUES



2. COMPOST BIN & WORK AREA

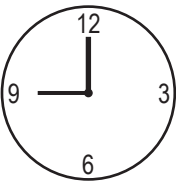


3. RECLAIMED MATERIALS

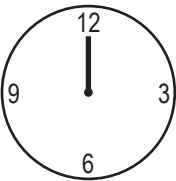
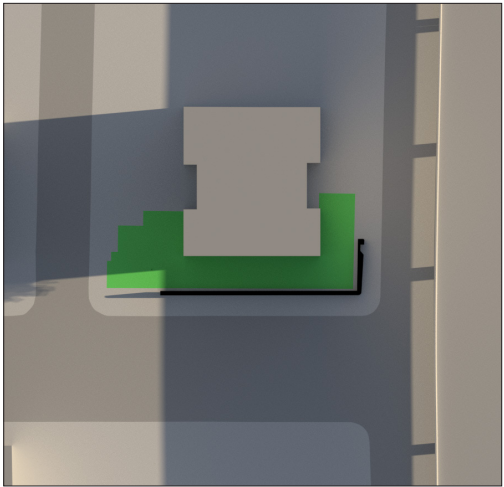


# SUN / SHADE ANALYSIS

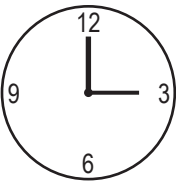
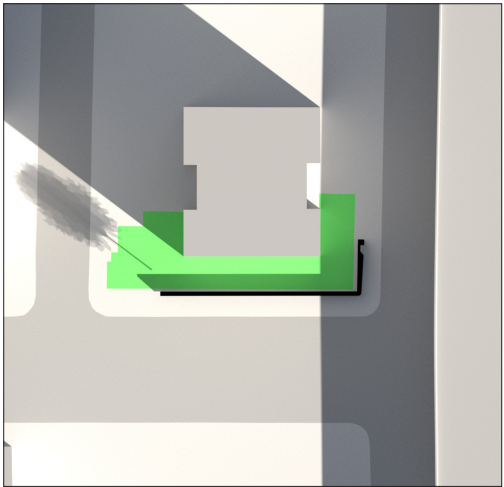
WINTER - DECEMBER 21



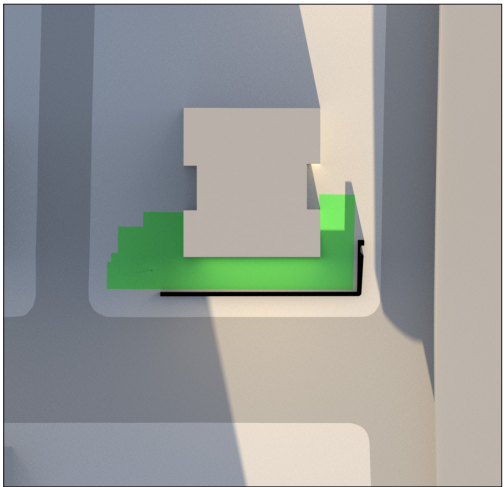
9:00am



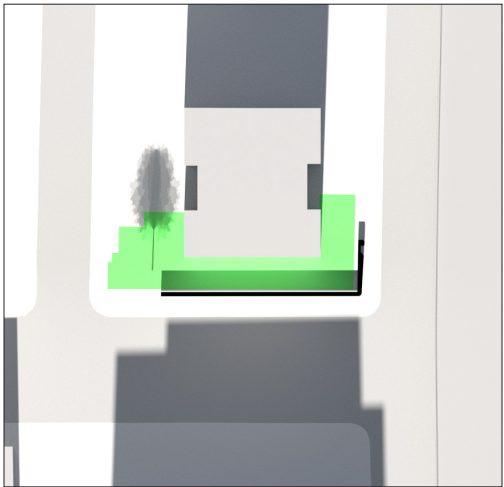
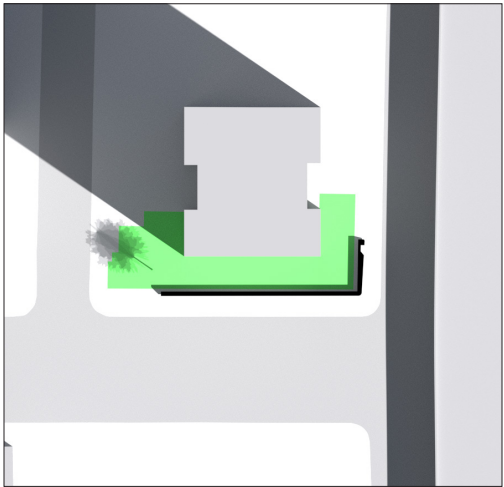
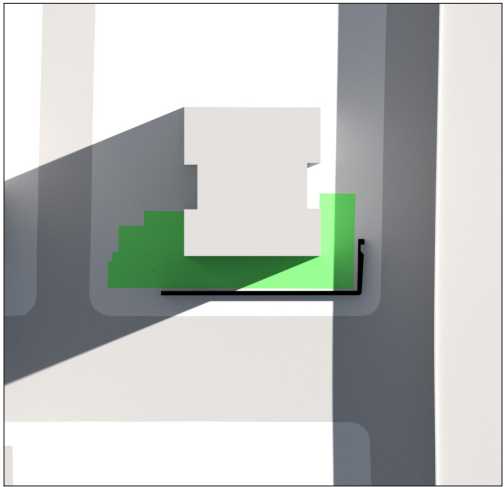
12:00pm



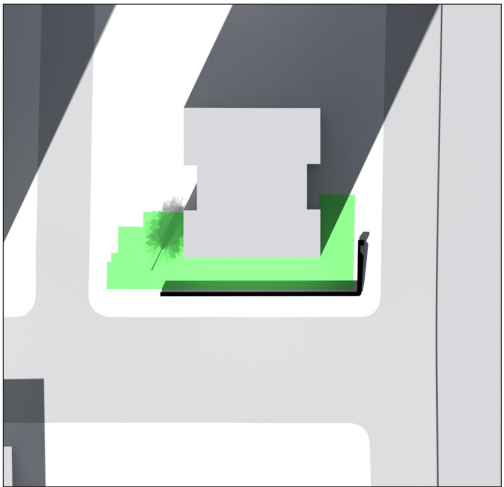
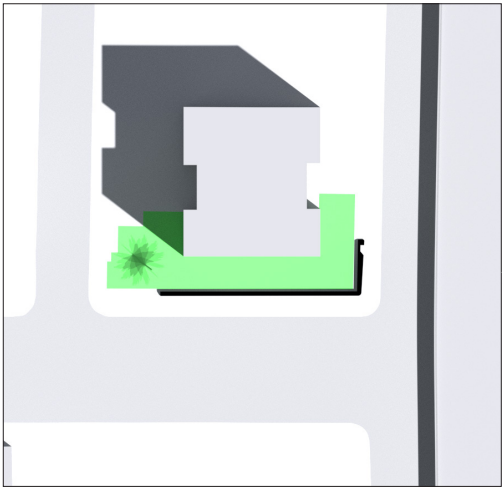
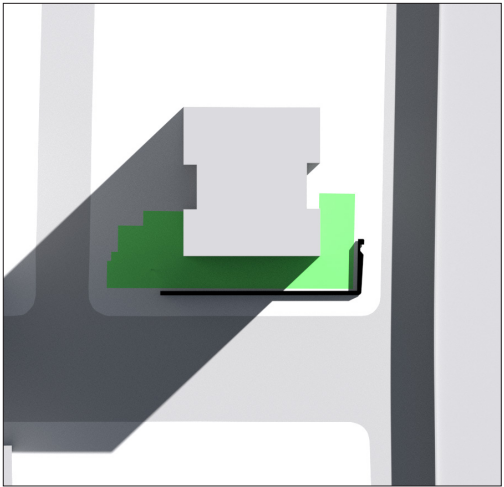
3:00pm



SPRING - MARCH 21



SUMMER - JUNE 21



INCREASED SUN EXPOSURE DUE TO TREE RESTRICTIONS



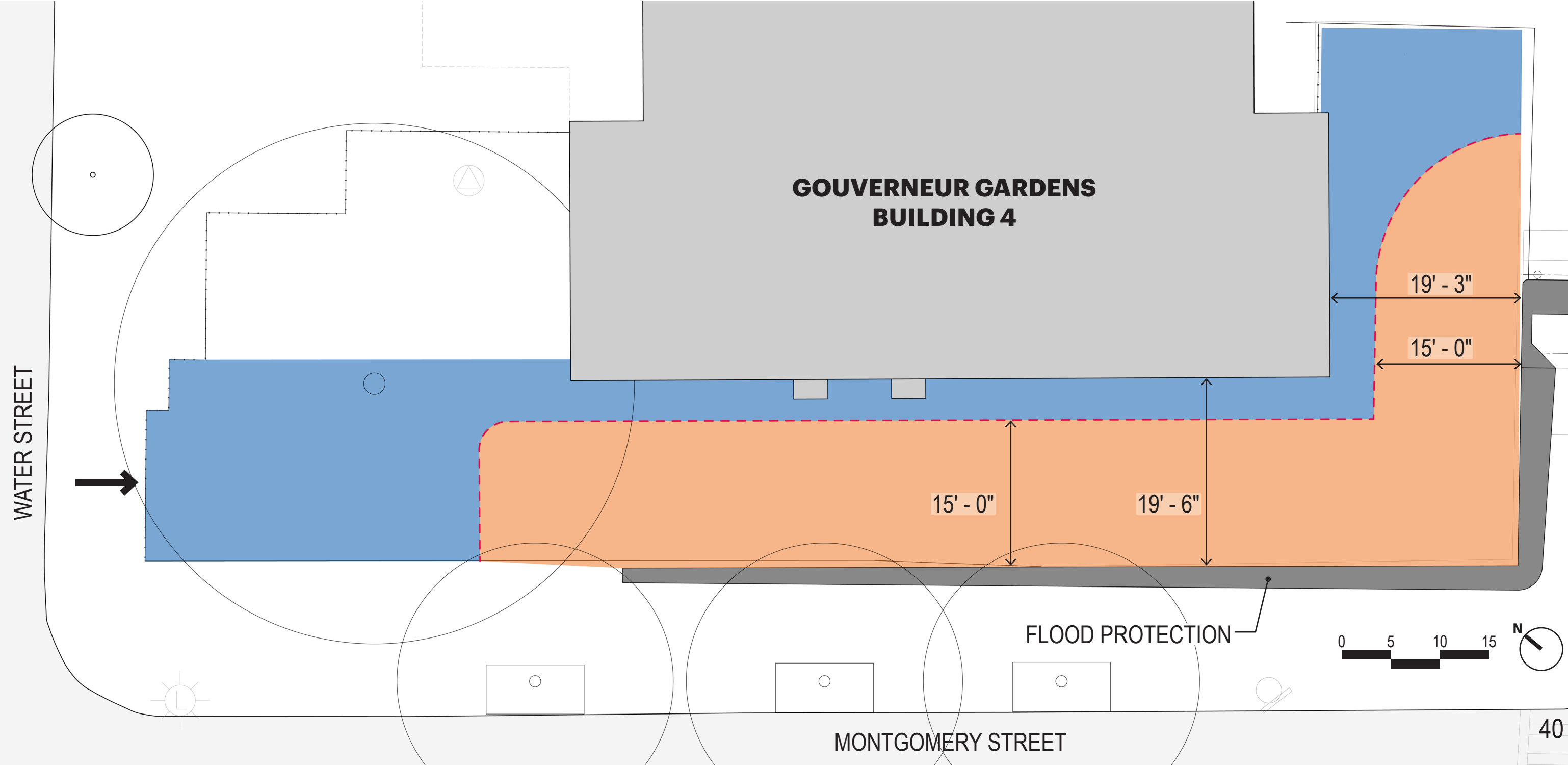


# PLANTING RESTRICTIONS

FLOOD PROTECTION OFFSETS

## LEGEND

- Existing Trees
- Herbaceous + Perennial Planting Area
- Tree +/-or Woody Shrub Planting Area
- Flood protection planting offset

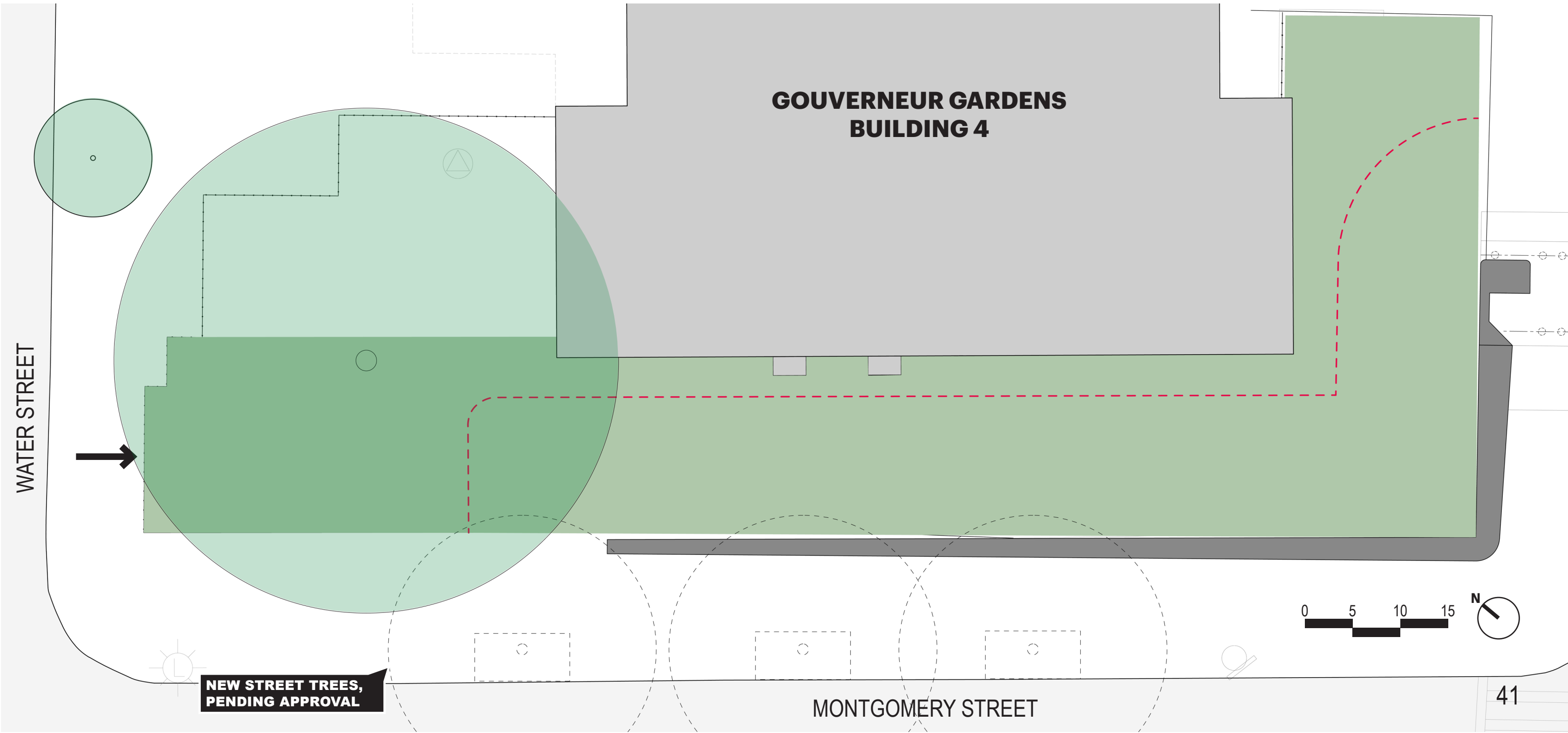




# PROPOSED IMPROVEMENT AREA

## LEGEND

- Existing trees to remain
- Improvement area: approx. 3,300 SF
- Flood protection planting offset





# GARDEN CONCEPT

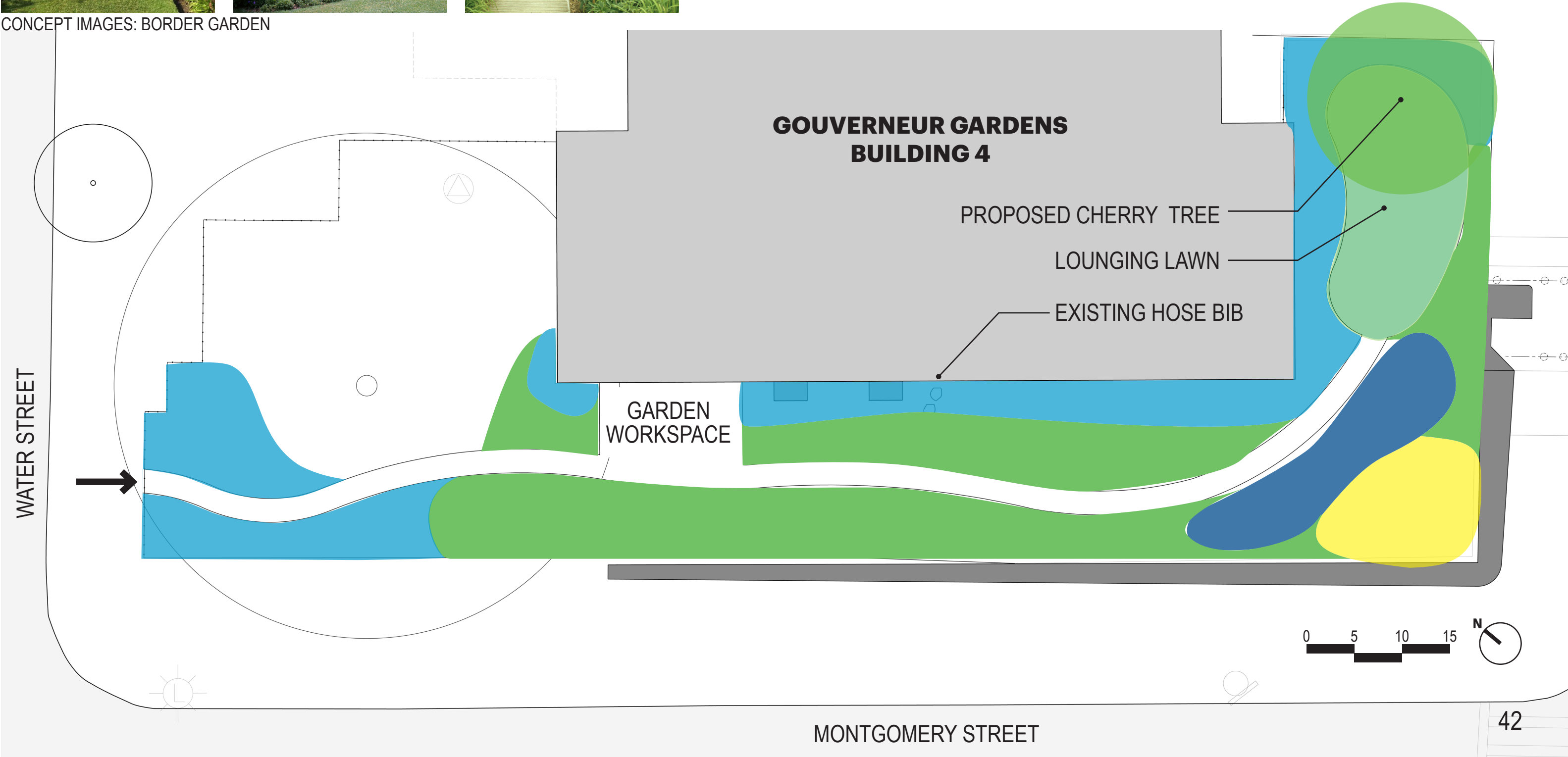
## BORDER GARDEN



CONCEPT IMAGES: BORDER GARDEN

### LEGEND

- Shrub Garden: Flowering Shrubs
- Rain Garden: Water Tolerant Flowers
- Border Garden: Grasses + Perennials
- Daffodil Hill Garden: Bulbs + Grasses





# GARDEN CONCEPT

## SHRUB LAYER



WHITE KNOCKOUT  
ROSES  
(*ROSA RADWHITE*)



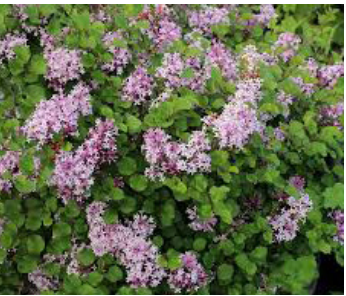
CHERRY LAUREL  
(*PRUNUS LAUROCERASUS*  
'OTTO LUYKEN')



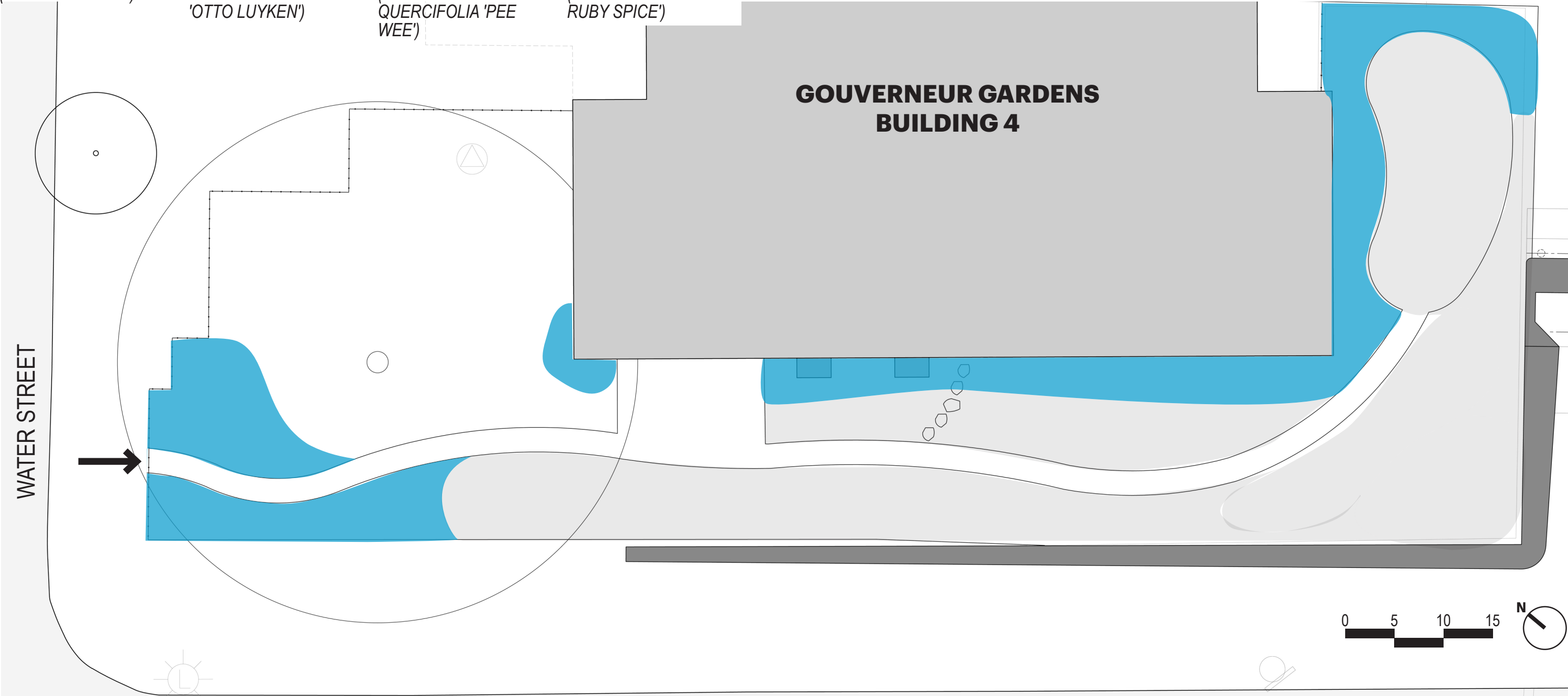
OAKLEAF  
HYDRANGEA PEE WEE  
(*HYDRANGEA QUERCIFOLIA* 'PEE  
WEE')



'RUBY SPICE'  
SUMMERSWEET  
(*CLETHRA ALNIFOLIA* 'RUBY  
SPICE')



MEYER LILAC  
(*SYRINGA MEYERII*)



**GOUVERNEUR GARDENS  
BUILDING 4**

WATER STREET

MONTGOMERY STREET



# GARDEN CONCEPT

## PERENNIAL LAYER



WILD BERGAMOT  
(*MONARDA FISTULOSA*)



BLAZING STAR  
(*LIATRIS SPICATA*  
'FLORISTAN WHITE')



BLUE FALSE INDIGO  
(*BAPTISIA AUSTRALIS*)



AUTUMN JOY  
STONECROP  
(*SEDUM 'AUTUMN JOY'*)



BLUE STAR AMSONIA  
(*AMSONIA HUBRICHTII*)



ASTER  
(*SYMPHYOTRICHUM*  
*NOVAE-ANGLIAE*)



PEONY  
(*PAEONIA LACTIFLORA*)



YARROW  
(*ACHILLEA*  
*MILLEFOLIUM*)



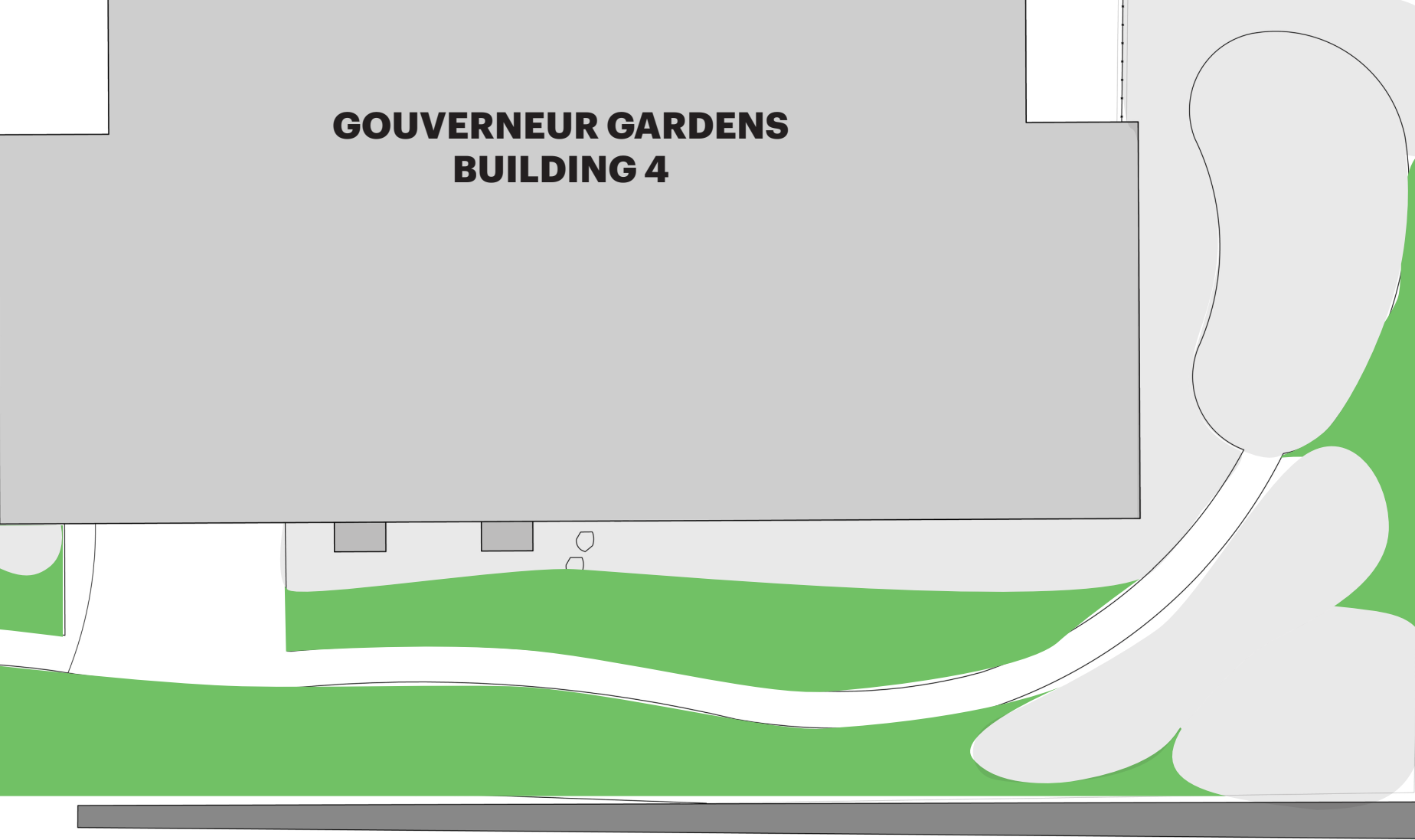
FLOWERING ONION  
(*ALLIUM*)



TULIPS  
(*TULIPA*)

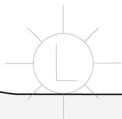


BLUE GRAMA  
(*BOUTELOUA GRACILIS*)



GOUVERNEUR GARDENS  
BUILDING 4

WATER STREET



MONTGOMERY STREET



# GARDEN CONCEPT

## RAIN GARDEN



DAY LILLIES  
(HEMEROCALLIS)



BLAZING STAR  
(LIATRIS SPICATA  
'FLORISTAN WHITE')



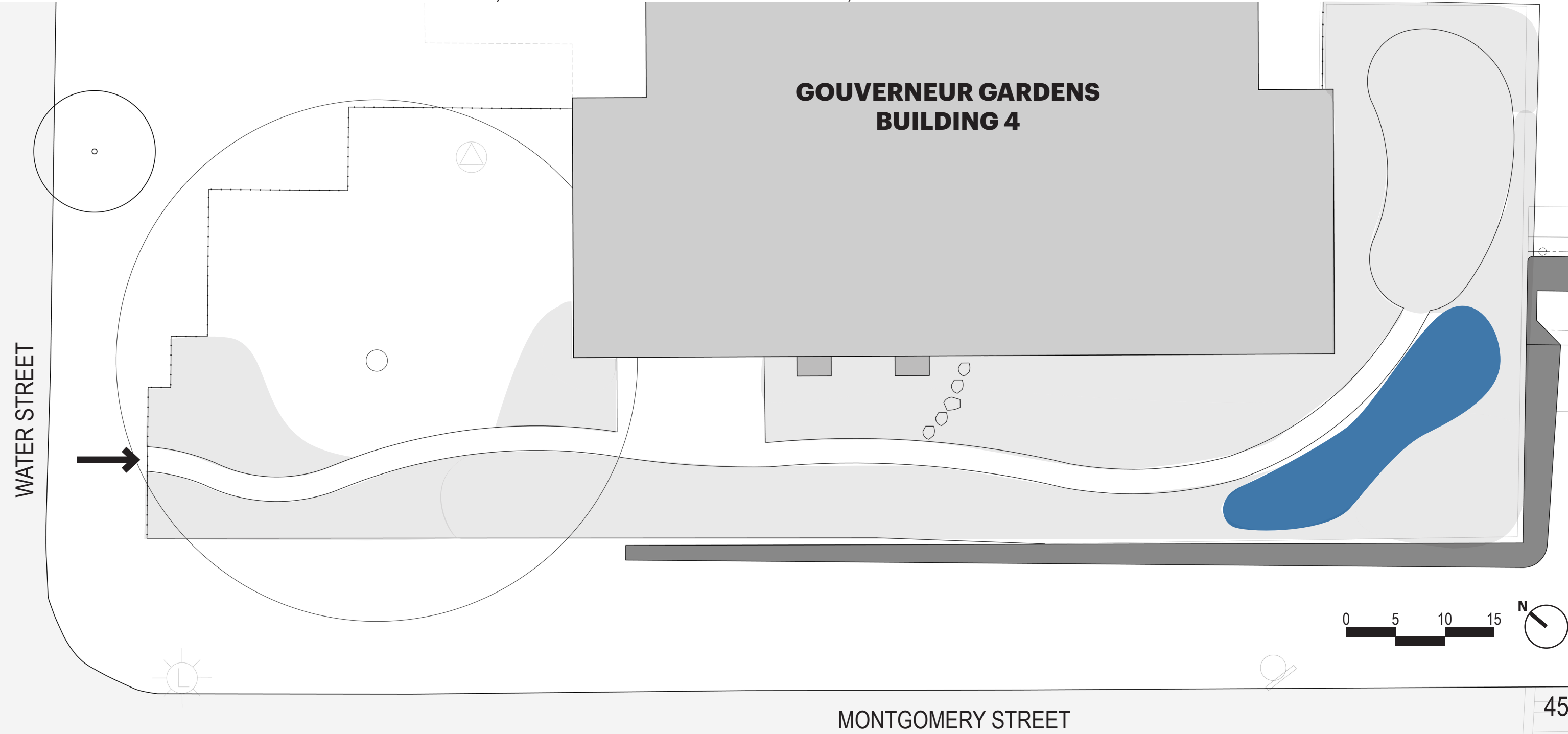
SWITCHGRASS  
(PANICUM VIRGATUM  
'SHENANDOAH')



BLUE SEDGE  
(CAREX FLACCA)



SPIDERWORT  
(TRADESCANTIA  
VIRGINIANA)



MONTGOMERY STREET



# GARDEN CONCEPT

## DAFFODIL HILL



DAFFODIL  
(*NARCISSUS*)



BLUE STAR AMSONIA  
(*AMSONIA HUBRICHTII*)



BLAZING STAR  
(*LIATRIS SPICATA*  
'FLORISTAN WHITE')



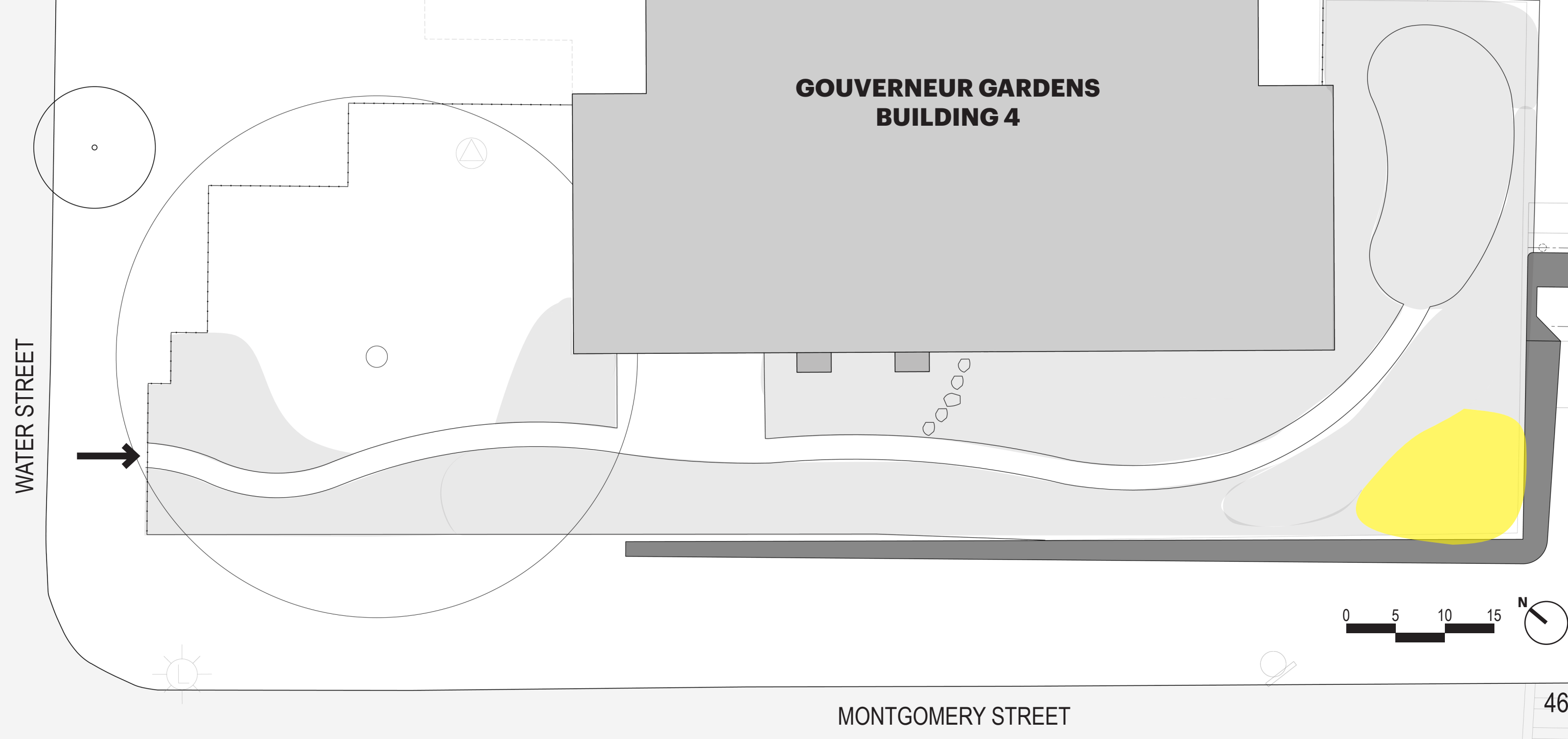
SWITCHGRASS  
(*PANICUM VIGATUM*  
'SHENANDOAH')



BLUE SEDGE  
(*CAREX FLACCA*)



YARROW  
(*ACHILLEA MILLEFOLIUM*)





# PLANT PALETTE

DESIGNING FOR SEASONS IN THE GARDEN

ARE THERE OTHER PLANTS THAT THE GOUVERNEUR GARDENS RESIDENTS WOULD LIKE TO SEE IN THE GARDEN?

			J	F	M	A	M	J	J	A	S	O	N	D
BOTANICAL NAME		COMMON NAME												
TREES	<i>Prunus 'Okame'</i>	Flowering Cherry												
SHRUBS	<i>Clethra alnifolia 'Ruby Spice'</i>	Ruby Spice Summersweet												
	<b><i>Hydrangea quercifolia 'Pee Wee'</i></b>	<b>Oakleaf Hydrangea Pee Wee</b>												
	<i>Prunus Laurocerasus 'Otto Luyken'</i>	Cherry Laurel												
	<b><i>Rosa radwhite</i></b>	<b>White Knockout Roses</b>												
	<i>Syringa meyerii 'Palibin'</i>	Meyer Lilac												
BULBS	<i>Allium 'Globemaster'</i>	Flowering Onion												
	<b><i>Heemerocallis 'Ciel D'Or'</i></b>	<b>Day Lily</b>												
	<b><i>Narcissus</i></b>	<b>Daffodil</b>												
	<b><i>Tulipa 'Rembrandt'</i></b>	<b>Tulip</b>												
PERENNIALS	<i>Achillea millefolium 'Desert Eve'</i>	Yarrow												
	<i>Amsonia hubrichtii</i>	Blue Star Amsonia												
	<i>Baptisia australis</i>	Blue False Indigo												
	<i>Hylotelephium 'herbstfreude'</i>	Autumn Joy Sedum												
	<b><i>Iris 'America's Cup'</i></b>	<b>White Iris</b>												
	<i>Liatris spicata 'Floristan White'</i>	White Blazing Star												
	<b><i>Liriope muscari</i></b>	<b>Lilyturf</b>												
	<i>Monarda fistulosa</i>	Wild Bergamot												
	<b><i>Paeonia lactiflora 'Sarah Bernhardt'</i></b>	<b>Peony</b>												
	<i>Salvia x sylvestris</i>	Wood Sage												
	<i>Symphotrichum novae-angliae</i>	New England Aster												
	<i>Tradescantia virginiana</i>	Spiderwort												
GRASSES	<i>Bouteloua gracilis 'Blonde Ambition'</i>	Blue Grama 'Blonde Ambition'												
	<i>Carex flacca</i>	Blue Sedge												
	<i>Helictotrichon sempervirens</i>	Blue Oat Grass												
	<i>Panicum virgatum 'Shenandoah'</i>	Shenandoah Switchgrass												
	<i>Panicum virgatum 'Heavy Metal'</i>	Heavy Metal Switchgrass												
	<i>Sesleria autumnalis</i>	Autumn Moor Grass												
	<b><i>Varies</i></b>	<b>Lawn/Turf Grass</b>												

PLANTS IN BOLD FONT ARE TYPES THAT ALREADY EXIST IN THE GARDEN



# **NEXT STEPS IN THE DESIGN PROCESS**

DESIGN QUESTIONS THAT WE ARE WORKING ON

## **LIGHTING UNDER THE FDR DRIVE**

- Design Team is investigating the solutions for improving lighting under the FDR Drive at Montgomery Street

## **FLOOD PROTECTION**

- Design Team is studying finishes for the flood protection at Gouverneur Gardens

## **STREETSCAPE IMPROVEMENTS**

- Design Team is studying opportunities for expanding the sidewalk under the FDR Drive for an improved access to East River Park
- Design Team is inquiring about opportunities to plant street trees along Montgomery Street, adjacent to Gouverneur Gardens Building 4



An aerial photograph of a city waterfront, likely New York City, showing a dense urban area with a bridge crossing a body of water. The foreground features a large green park area with a baseball field and a tennis court. The background shows a dense grid of city buildings. The entire image is overlaid with a semi-transparent teal color.

# AGENDA

**PROJECT UPDATES**

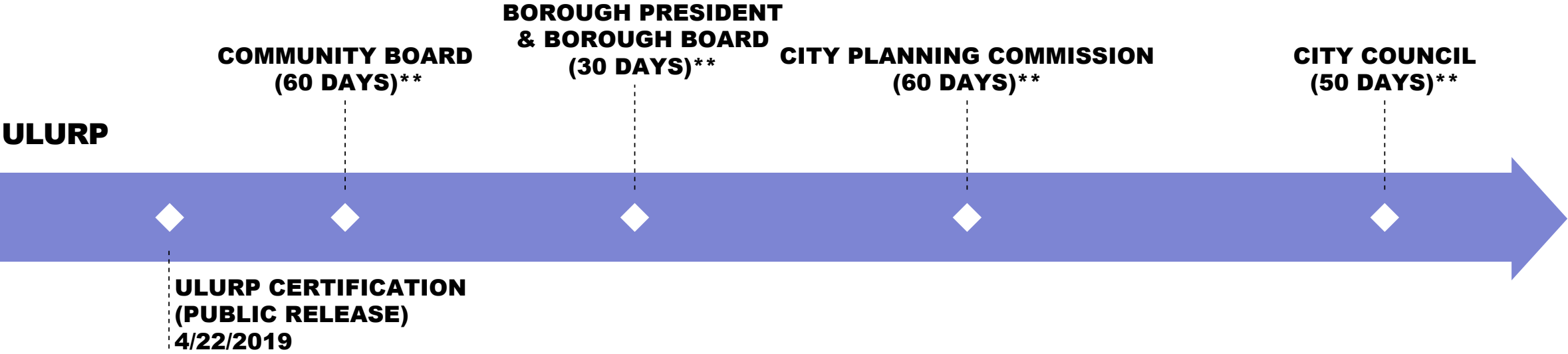
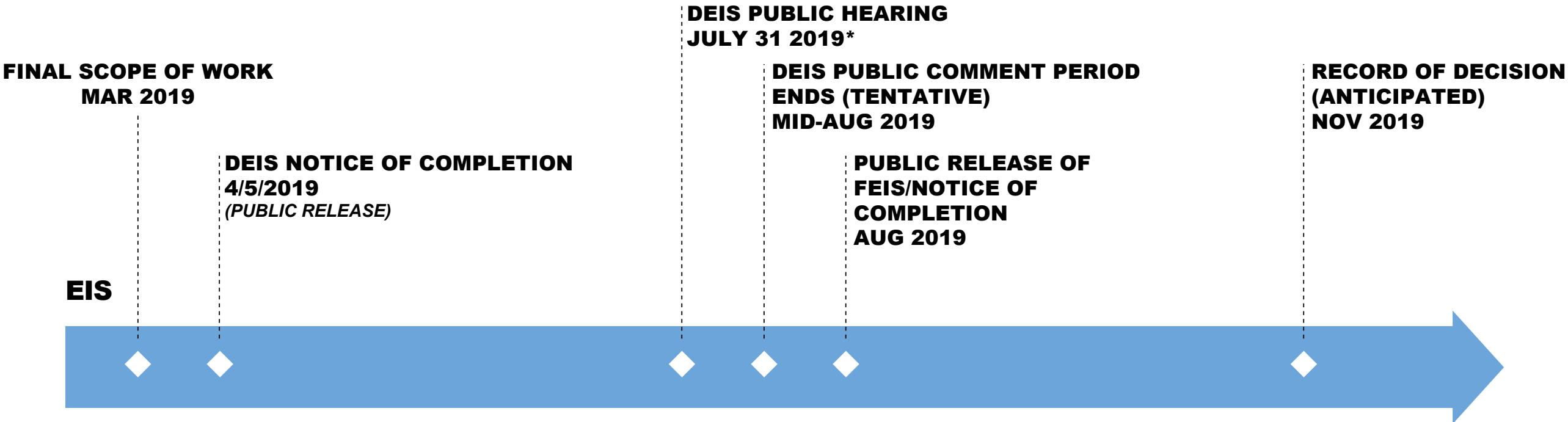
**DESIGN WALKTHROUGH**

**GOUVERNEUR GARDENS UPDATE**

**ENVIRONMENTAL REVIEW AND APPROVALS**



# PRELIMINARY ENVIRONMENTAL REVIEW SCHEDULE



\* DEIS COMMENT PERIOD EXTENDS 15 DAYS AFTER PUBLIC HEARING  
\*\* INCLUDES PUBLIC HEARING



# **ENVIRONMENTAL REVIEW STANDARDS**

## **PROJECT REVIEW BEING CONDUCTED UNDER 3 STATUTES:**

- **National Environmental Policy Act (NEPA)**
  - **State Environmental Quality Review Act (SEQRA)**
  - **City Environmental Quality Review (CEQR)**
- (Environmental Impact Statement (EIS) will satisfy requirements of all three statutes.)*

## **COORDINATED ENVIRONMENTAL REVIEW PROCESS**

### **LEAD AGENCIES:**

- **NEPA - NYC Office of Management and Budget (OMB)**
  - **SEQRA/CEQR - Department of Parks & Recreation**
- (Environmental review coordinated by head agencies, with cooperating, involved and interested Federal, State and City agencies.)*



# **ALTERNATIVES ANALYZED IN THE DEIS**

**ALTERNATIVE 1:**    **No Action Alternative**

**ALTERNATIVE 2:**    **Flood Protection System on the West Side of East River Park –  
Baseline**

**ALTERNATIVE 3:**    **Flood Protection System on the West Side of East River Park –  
Enhanced Park and Access**

**ALTERNATIVE 4:**    **Flood Protection System with a Raised East River Park**  
**(Preferred Alternative)**

**ALTERNATIVE 5:**    **Flood Protection System East of FDR Drive**



# **UNIFORM LAND USE REVIEW PROCEDURE (ULURP)**

## **PRELIMINARY PROPOSED ACTIONS**

### **Acquisitions (Easements) Needed**

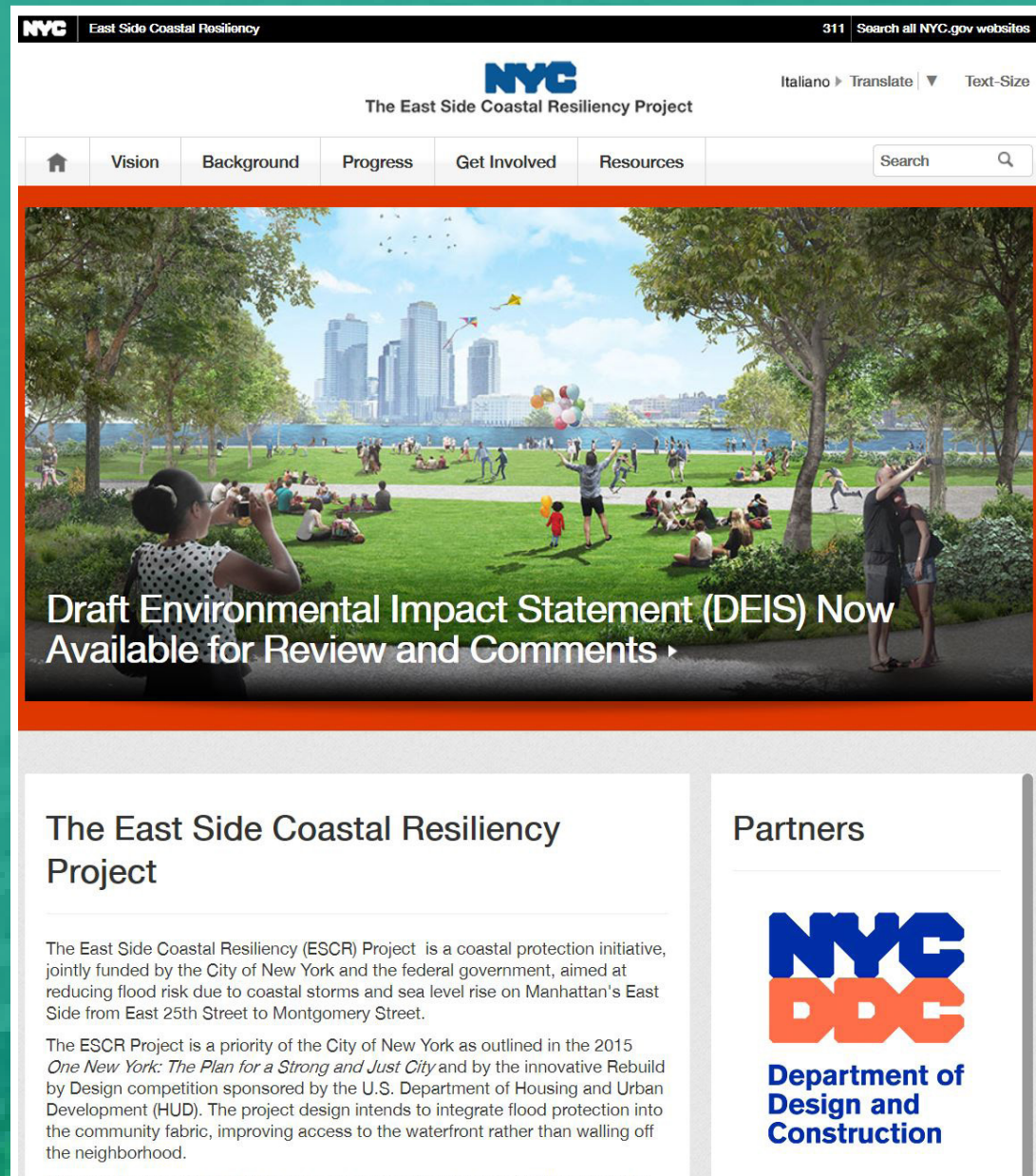
- **Gouverneur Gardens Cooperative**
- **East River Housing Corporation**
- **NYCHA (Riis Houses and Baruch Houses)**
- **Con Edison**
- **Captain Patrick J Brown Walk (NYSDOT)**
- **VA Medical Center**

**Zoning text amendment to exempt Stuyvesant Cove Park from waterfront zoning requirements.**

**City map change (anticipated at a later date) for the reconstruction of pedestrian bridges.**



# Website



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