

# East Side Coastal Resiliency

CB6 Land Use & Waterfront Committee  
433 1st Avenue, Room 220 (NYU School of Dentistry)

November 25, 2019



# **PRESENTATION AGENDA**

**SITE DESIGN UPDATE: PROJECT AREA 2**

**NEIGHBORHOOD PARK IMPROVEMENTS**

**PROJECT AREA 2 CONSTRUCTION PHASING**

**ENVISION SUSTAINABILITY RATING SYSTEM**

**PROJECT SCHEDULE**

An aerial architectural rendering of a city waterfront project area. The scene shows a dense urban grid on the left, transitioning into a waterfront promenade with green spaces, walkways, and a bridge crossing a body of water. The bridge has a truss structure and is supported by a central pier. The waterfront area includes several green fields, possibly for sports or recreation, and a curved promenade. The entire image is overlaid with a semi-transparent teal color.

# **SITE DESIGN UPDATE: PROJECT AREA 2**

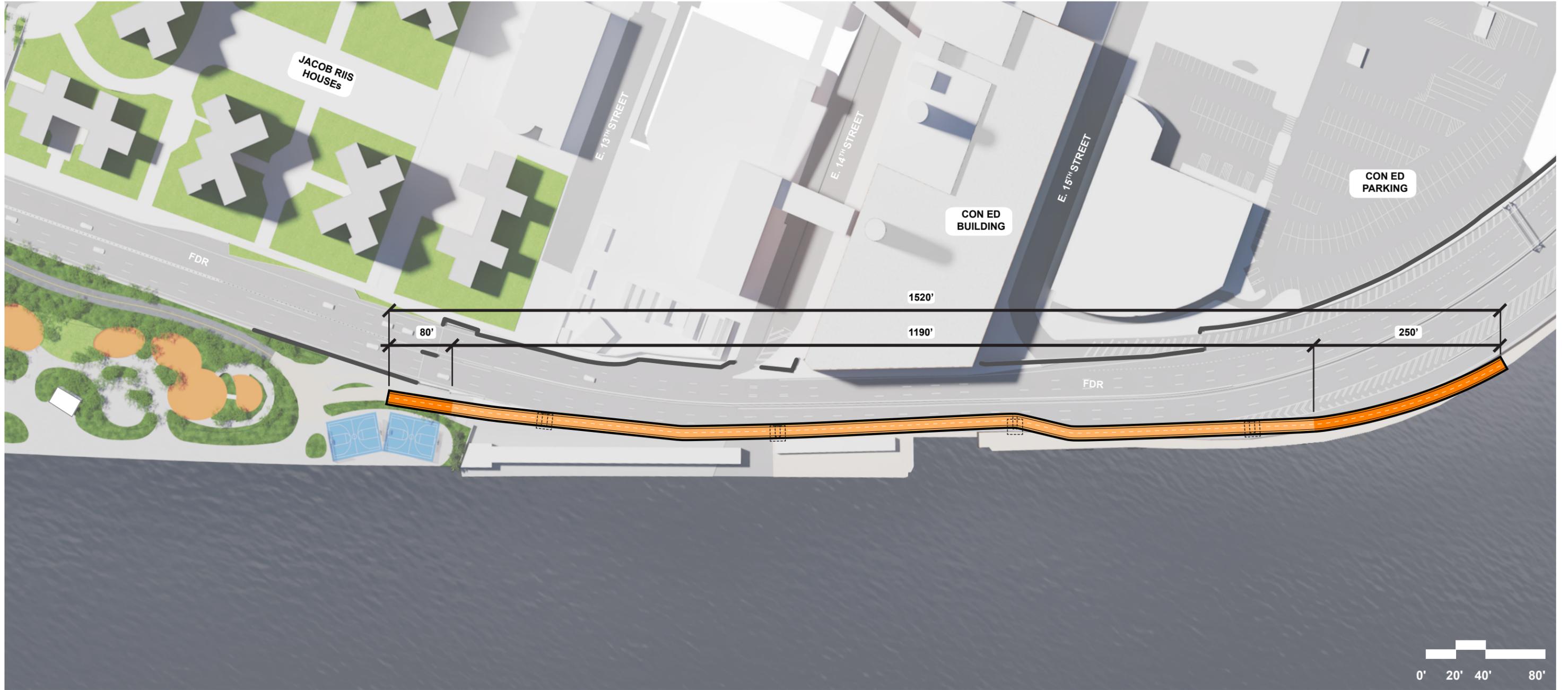
# PROJECT AREA 2

## SITE DESIGN



# PINCH POINT FLYOVER BRIDGE

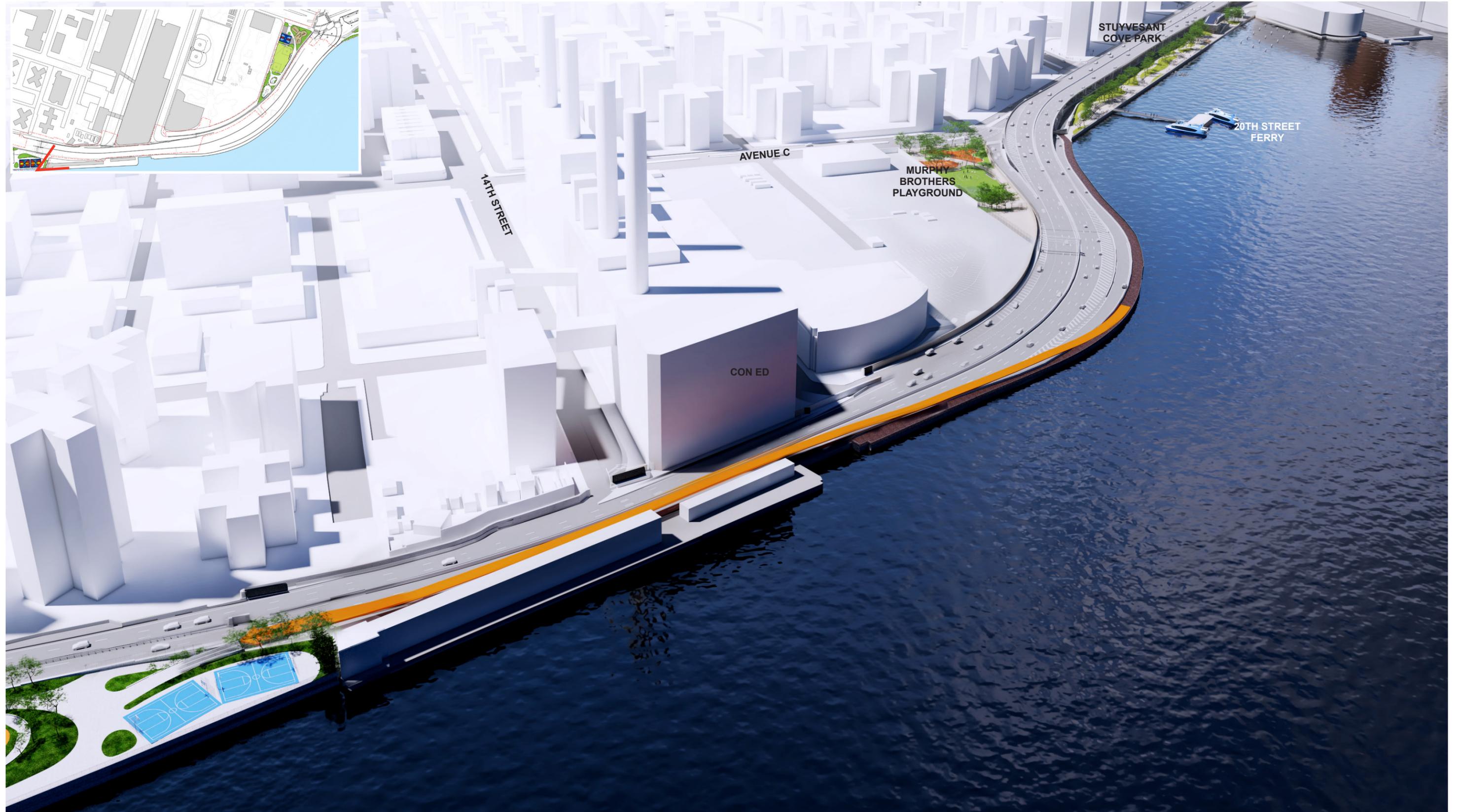
PLAN VIEW



- FLYOVER BRIDGE
- BRIDGE APPROACH
- FLYOVER BRIDGE FOUNDATION

# PINCH POINT AREA

AERIAL VIEW



# FLOODWALL ALONG FDR

AERIAL VIEW



# REACHES L-N

AERIAL VIEW



# MURPHY BROTHERS PLAYGROUND

AERIAL VIEW



# MURPHY BROTHERS DOG RUN

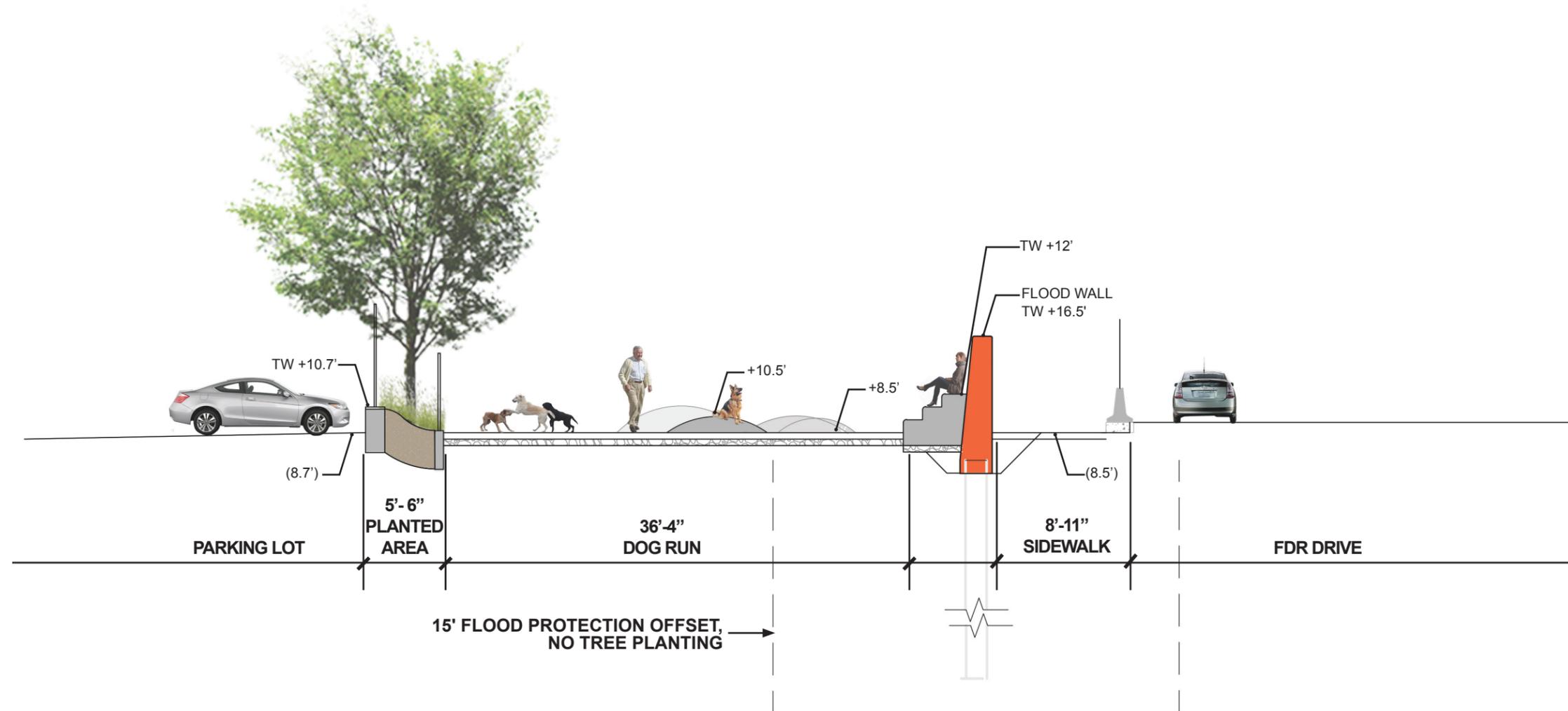
PLAN VIEW



0 20  
Scale: 1" = 20'-0" 

# MURPHY BROTHERS DOG RUN

## SECTION



0 20  
Scale: 1" = 10'-0"

# STUYVESANT COVE PARK

AERIAL VIEW



# EAST 20TH STREET DESIGN

AERIAL VIEW



# EAST 20TH STREET ENTRY

PERSPECTIVE VIEW



# STUYVESANT COVE BIKE LANE

PERSPECTIVE VIEW



# STUYVESANT COVE PARK

PERSPECTIVE VIEW



# STUYVESANT COVE PARK

PERSPECTIVE VIEW



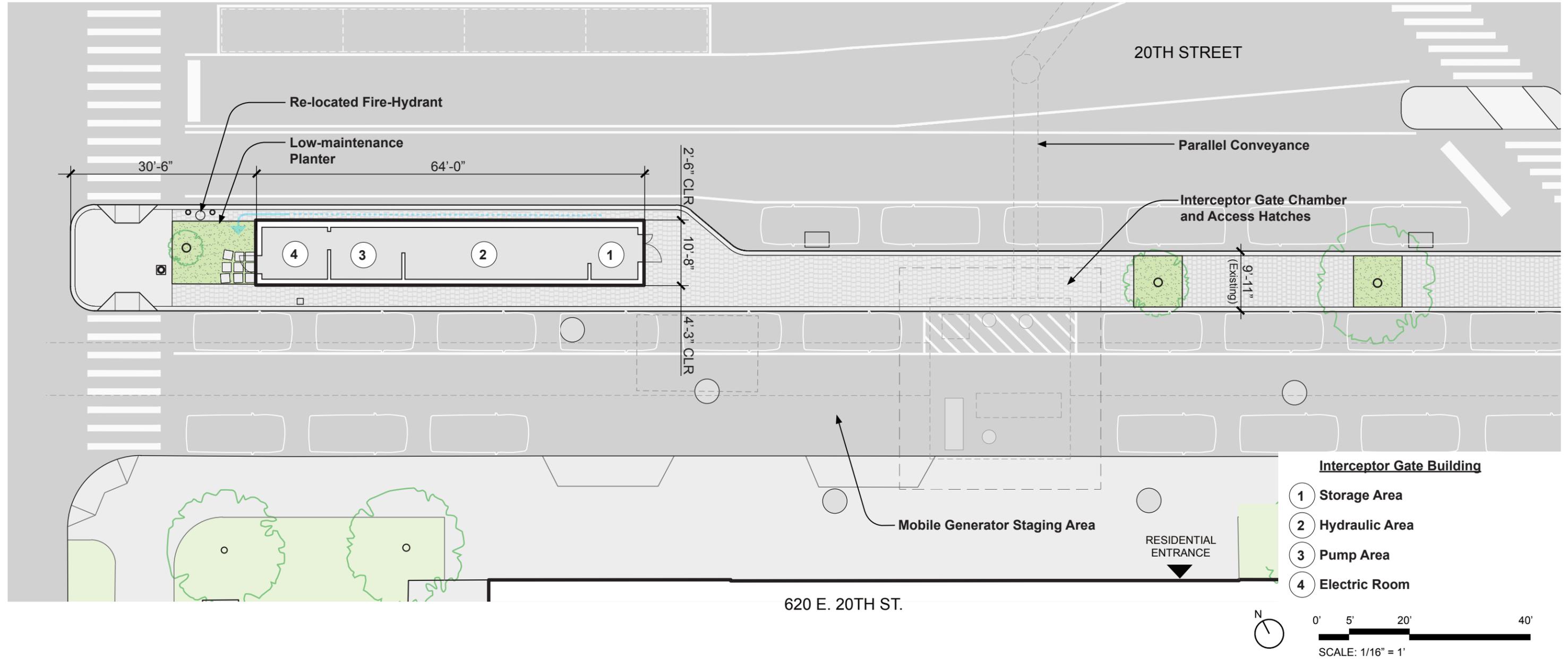
# EAST 20TH STREET ENTRY PLAZA

PERSPECTIVE VIEW



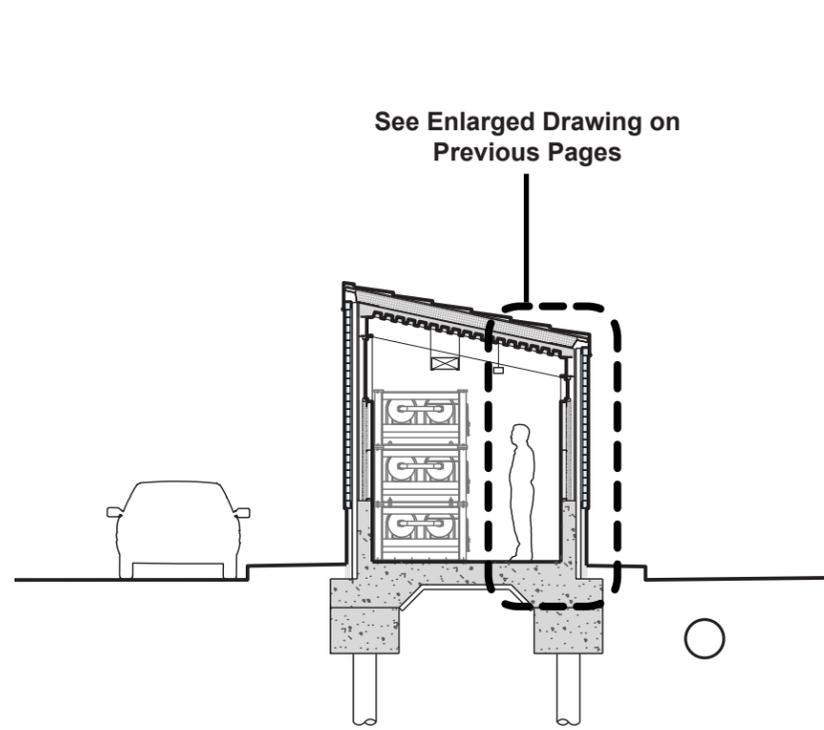
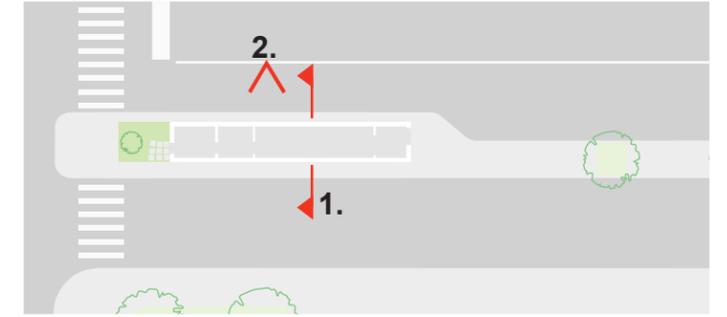
# INTERCEPTOR GATE BUILDING

## NORTH SITE PLAN

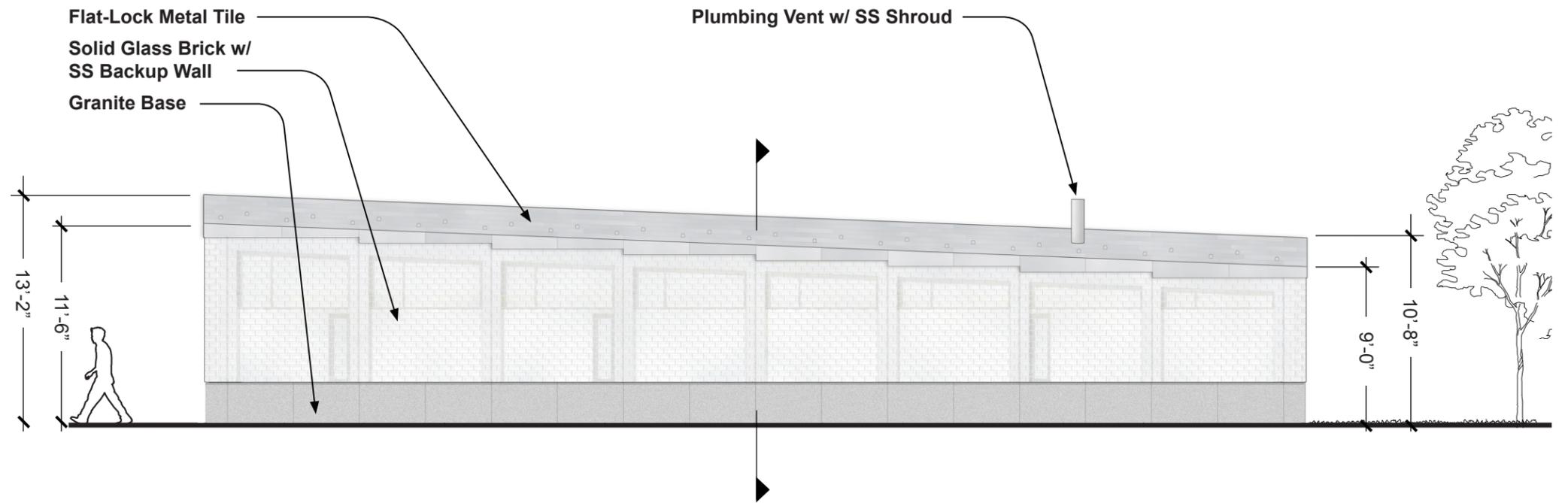


# INTERCEPTOR GATE BUILDING

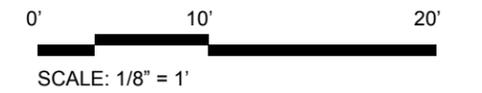
## SECTION AND ELEVATION



1. CROSS SECTION



2. NORTH ELEVATION



# INTERCEPTOR GATE BUILDING

VIEW FROM NORTHWEST



# INTERCEPTOR GATE BUILDING

## MATERIAL PALETTE



**DETAIL ELEVATION**



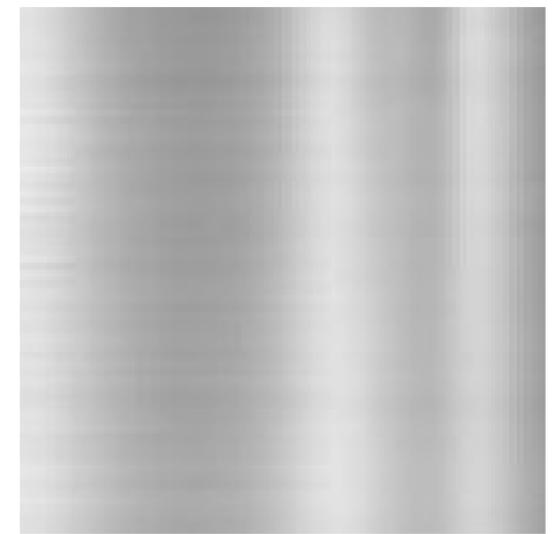
**2 SOLID GLASS BRICK**  
Façade



**1 FLAT-LOCK METAL TILE**  
Sloped Roof Assembly



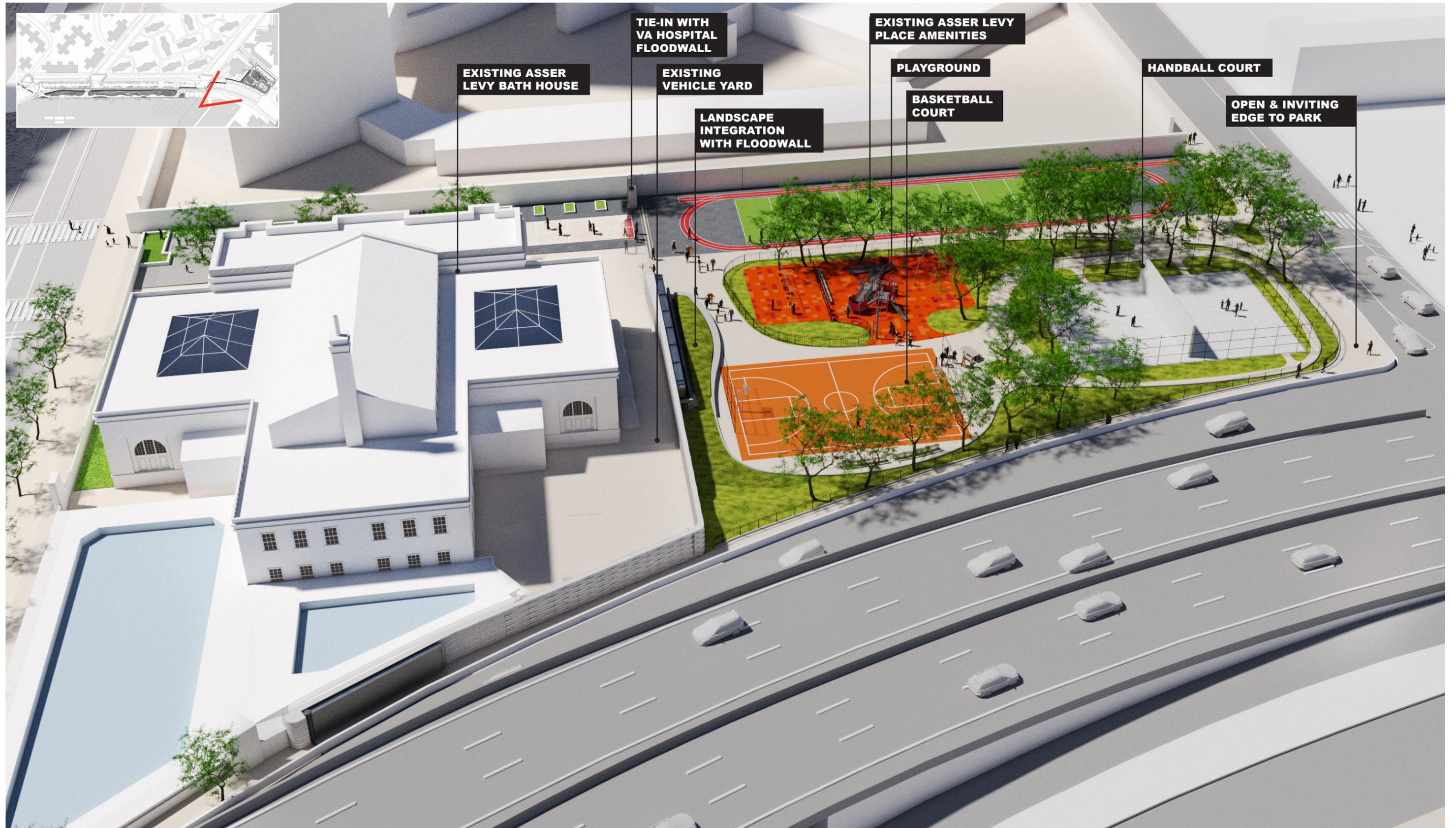
**4 Barre Grey Granite**  
Stone Base



**3 STAINLESS STEEL**  
Backup Wall & Doors

# ASSER LEVY PLAYGROUND

AERIAL VIEW



# PROJECT AREA 2 PLANTING

## PLANTING CONCEPT



0 100 200  
Scale: 1" = 160'-0"



**WOODLAND**



**WET  
MEADOW**



**GRASS  
LAND**



**SHRUB  
LAND**



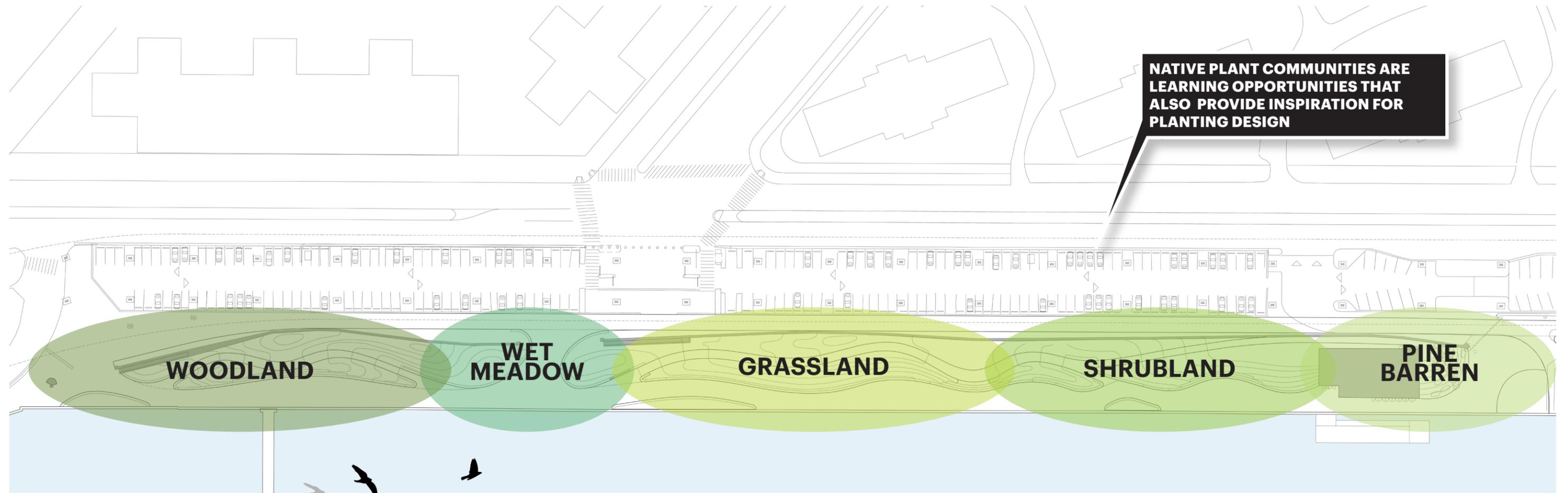
**PINE  
BARREN**



**PLAY  
GROUNDS**

# STUYVESANT COVE PLANTING

## PLANTING CONCEPT



# PLANTING PALETTE

## TREES



*Acer rubrum*



*Amalanchier laevis*



*Celtis occidentalis*



*Gleditsia triacanthos*



*Juniperus virginiana*



*Nyssa sylvatica*



*Pinus rigida*



*Pinus virginiana*



*Quercus bicolor*



*Quercus coccinea*



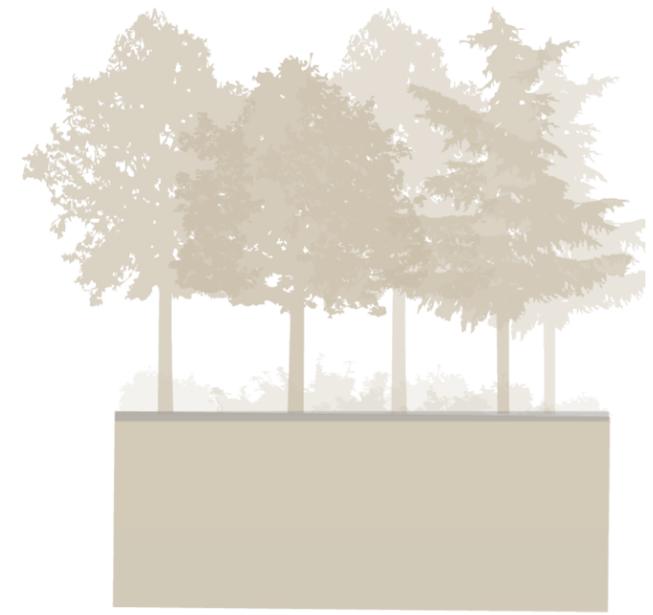
*Quercus nuttallii*



*Quercus palustris*



*Rhus typhina*



TREES

# PLANTING PALETTE

## WOODLAND



### SHRUBS



*Hydrangea quericifolia*  
Pee Wee



*Viburnum acerfolium*

### GRASSES



*Carex albicans*



*Carex appalachica*



*Carex bicknelli*



*Carex pensylvanica*



*Deschampsia flexuosa*



*Panicum virgatum*  
'Ruby Ribbons'

### PERENNIALS



*Ageratina altissima*



*Amsonia hubrichtii*



*Anemone virginiana*



*Penstemon calycosus*



*Aster prenanthoides*



*Conoclinium*  
*coelestinum*



*Dicentra cucullaria*



*Eurybia divaricata*



*Geranium maculatum*



*Heuchera Americana*



*Mertensia virginica*<sup>^</sup>



*Phlox divaricata*



*Podophyllum peltatum*



*Polystichum*  
*acrostichoides*



*Pynanthemum*  
*muticum*



*Pynanthemum*  
*tenuifolium*



*Tiarella cordifolia*



*Tradescantia virginiana*



*Tradescantia ohiensis*



*Viola labradorica*



*Viola sororia*



# PLANTING PALETTE

## WET MEADOW

### GRASSES



*Carex stricta*



*Carex pensylvanica*



*Carex vulpinoidea*



*Juncus effusus*



*Juncus tenuis*



*Panicum virgatum*  
*'Ruby Ribbons'*



*Anemone canadensis*



*Aquilegia canadensis*



*Asclepias incarnata*



*Echinacea purpurea*



*Equisetum hyemale*



*Eutrochium dubium*

### PERENNIALS



*Helianthus decapetalus*



*Hibiscus coccineus*



*Hibiscus moscheutos*



*Iris versicolor*



*Liatris spicata*



*Lobelia cardinalis*<sup>^</sup>



*Monarda didyma*



*Monarda punctata*



*Onoclea sensibilis*



*Verbena hastata*

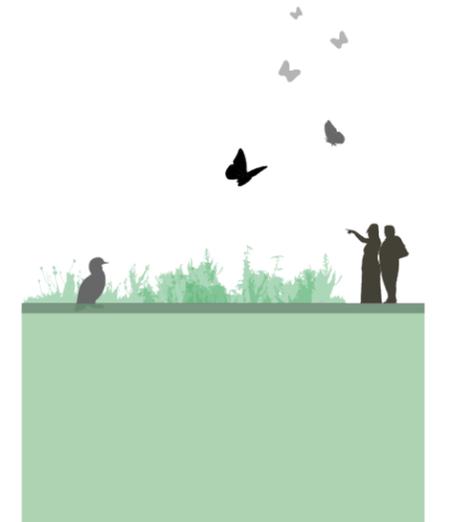


*Vernonia noveboracensis*



*Zizia aurea*<sup>\*</sup>

<sup>\*</sup>Solar1 Plant List (2016)  
<sup>^</sup>Short-Lived



# PLANTING PALETTE

## GRASSLAND

### GRASSES



*Bouteloua curtipendula*



*Bouteloua gracilis*



*Carex albicans*



*Carex pensylvanica*



*Chasmanthium latifolium*



*Deschampsia cespitosa*



*Deschampsia flexuosa*



*Panicum virgatum*  
*Ruby Ribbons*



*Schizachyrium scoparium*



*Sporobolus cryptanandrus*



*Sporobolus heterolepis*



*Sorghastrum nutans*

### PERENNIALS



*Amsonia hubrichtii*



*Asclepias syriaca\**



*Asclepias tuberosa\**



*Asclepias verticillata\**



*Baptisia australis*



*Echinacea purpurea\**



*Eryngium yuccifolium*



*Eutrochium purpureum\**



*Geum triflorum\**



*Helianthus decapetalus*



*Liatris aspera*



*Liatris scariosa novae angliae\**



*Monarda fistulosa*



*Phlox paniculata*



*Rudbeckia fulgida\**



*Solidago juncea*



*Solidago rigida\**



*Symphyotrichum novi-angelli\**



*Symphyotrichum novi-belgii*



*Symphyotrichum oblongifolium\**



*Zizia aptera\* / aurea\**



# PLANTING PALETTE

## SHRUBLAND

SHRUBS							
	<i>Amorpha fruticosa</i>	<i>Ceanothus americanus</i>	<i>Clethra alnifolia</i>	<i>Diervilla lonicera</i>	<i>Diervilla sessifolia</i>	<i>Hypericum prolificum</i>	
							
	<i>Itea virginica</i>	<i>Morella pensylvanica</i>	<i>Prunus maritima</i>	<i>Rhus aromatica</i>	<i>Rosa carolina</i>	<i>Rosa virginica</i>	
	GRASSES						
		<i>Andropogon virginicus</i>	<i>Bouteloua gracilis</i>	<i>Carex albicans</i>	<i>Carex pensylvanica</i>	<i>Chasmanthium latifolium</i>	<i>Deschampsia flexuosa</i>
							
<i>Panicum virgatum Ruby Ribbons</i>		<i>Schizachyrium scoparium</i>	<i>Sporobolus heterolepis</i>				
PERENNIALS							
		<i>Achillea millefolium</i>	<i>Amsonia hubrichtii</i>	<i>Asclepias verticillata*</i>	<i>Aster prenanthoides</i>	<i>Eryngium yuccifolium</i>	<i>Monarda punctata*</i>
							
	<i>Phlox divaricata</i>	<i>Physostegia virginiana*</i>	<i>Pycnanthemum tenuifolium*</i>	<i>Rudbeckia fulgida* / hirta</i>	<i>Solidago odora</i>	<i>Solidago graminifolia*</i>	
							
	<i>Solidago sempervirens*</i>	<i>Symphyotrichum oblongifolium*</i>	<i>Zizia aptera* / aurea*</i>				



# PLANTING PALETTE

## PLAYGROUND

TREES



*Acer rubrum*



*Celtis occidentalis*



*Gleditsia triacanthos*



*Ilex opaca* 'Jersey Queen'



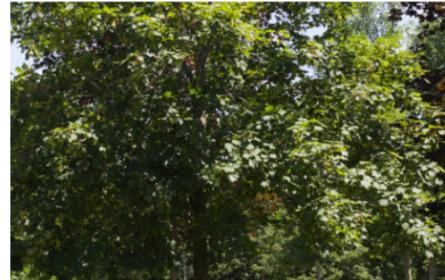
*Liquidambar rotundiloba*



*Quercus rubra*



*Quercus phellos*



*Quercus bicolor*



*Quercus coccinea*

SMALL TREES



*Amelanchier canadensis*  
'Autumn Brilliance'



*Chionanthus retusus*



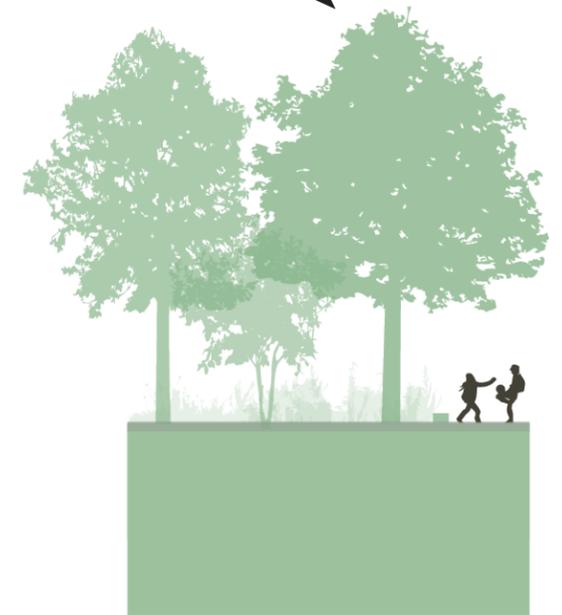
*Magnolia Virginiana*



*Prunus serrulata* 'Mt. Fuji'

PLAY-  
GROUNDS

CANOPY TREES FOR  
PLAYGROUND SHADE



# PLANTING PALETTE

## PLAYGROUND

### SHRUBS



*Aronia melanocarpa*



*Callicarpa dichotoma*



*Diervilla lonicera*



*Hydrangea quericifolia*  
Pee Wee



*Ilex glabra*



*Prunus laurocerasus*  
'Otto Luyken'



*Rosa carolina*



*Rhus aromatica*  
gro-low'

### GROUNDCOVERS



*Amsonia hubrichtii*



*Asclepias tuberosa*\*



*Carex pensylvanica*



*Chasmanthium*  
*latifolium*



*Echinacea purpurea*



*Geranium maculatum*



*Liatris spicata*

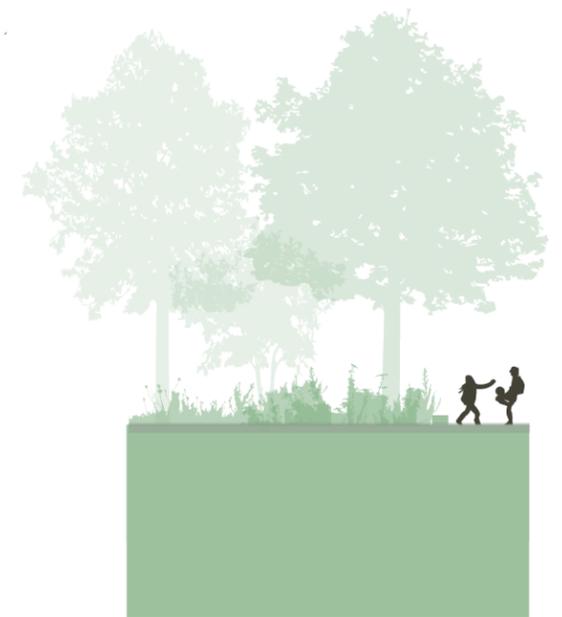


*Monarda punctata*



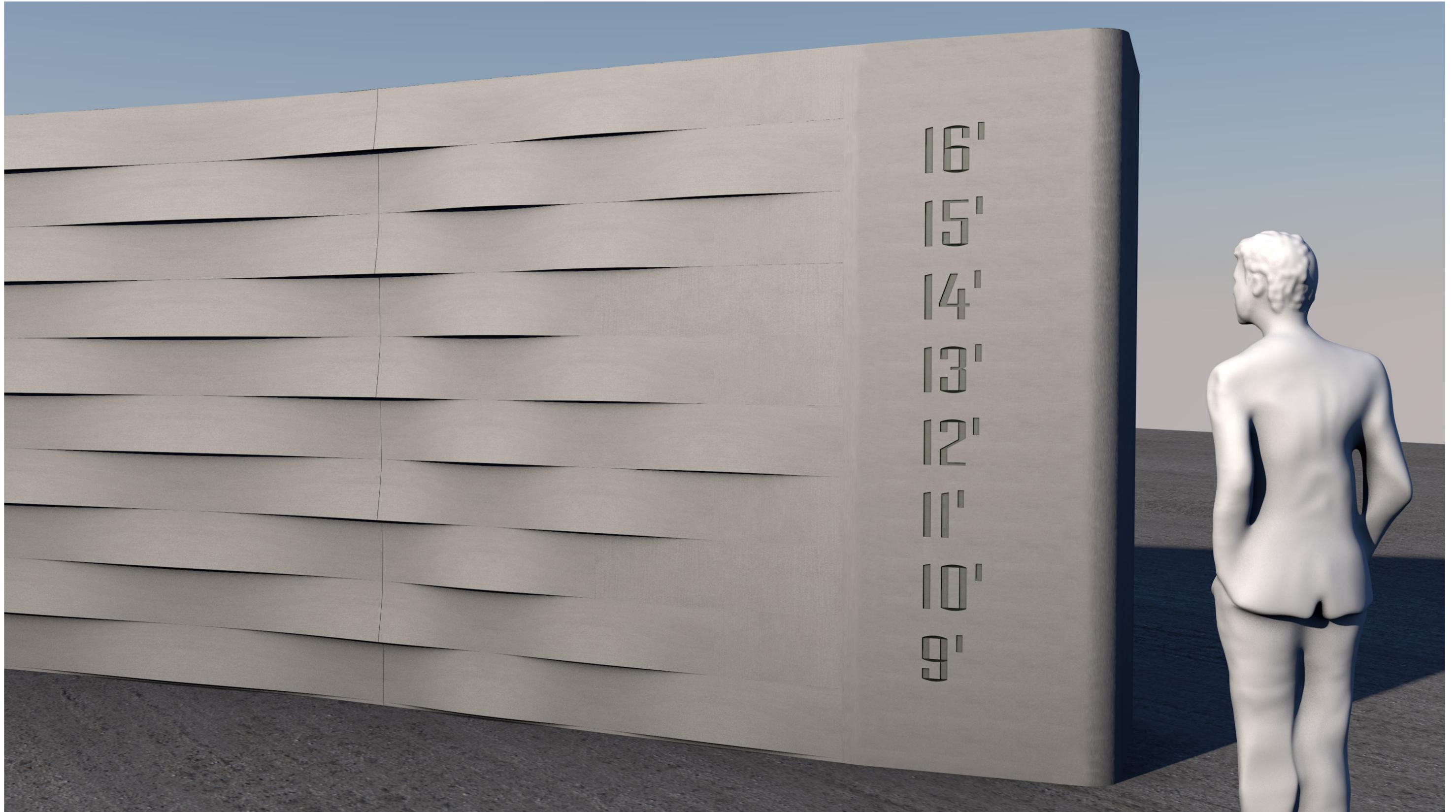
*Schizachyrium*  
*scoparium*

PLAY-  
GROUNDS



# FLOODWALL SIGNAGE

ELEVATION MARKERS

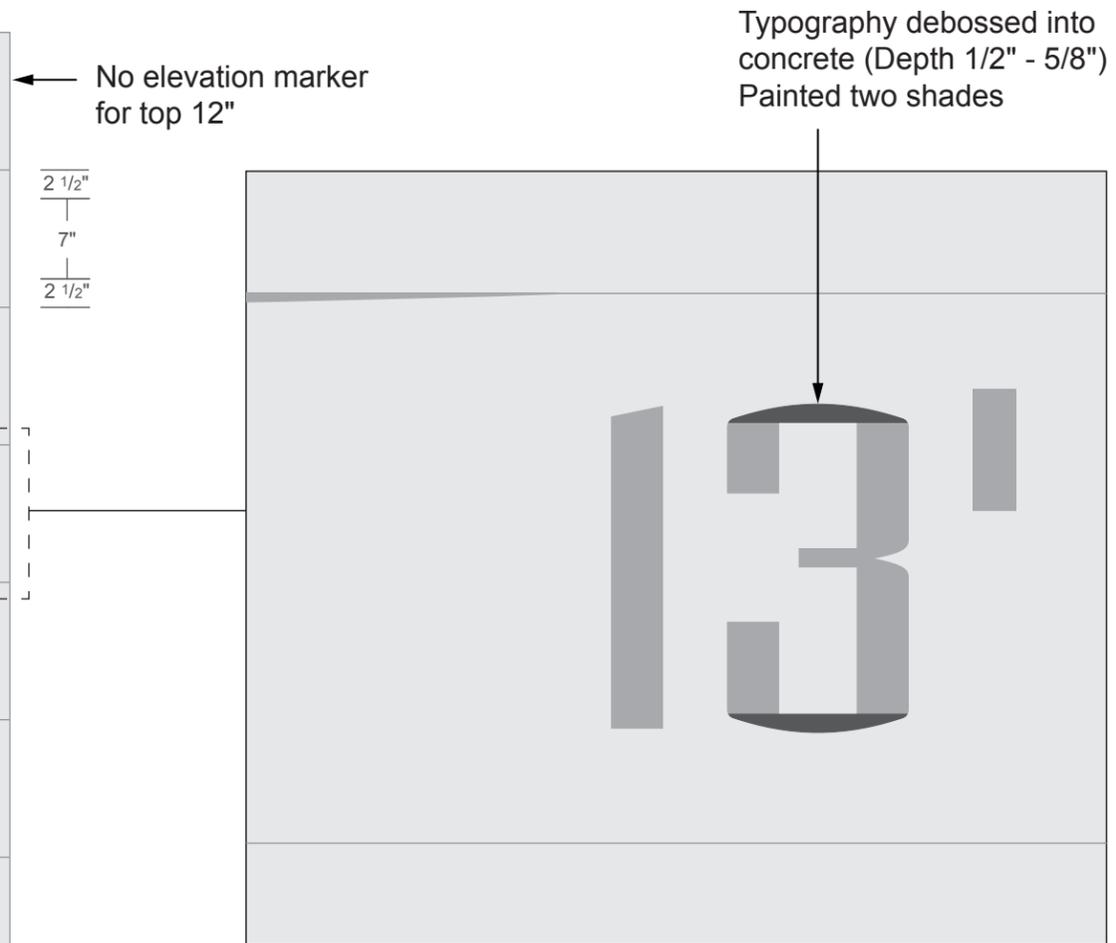


# FLOODWALL SIGNAGE

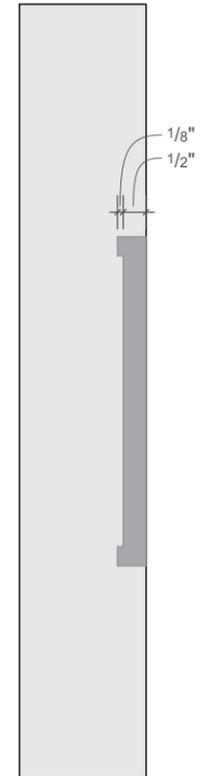
## ELEVATION MARKERS



1. FLOODWALL SIGNAGE TYP. ELEVATION



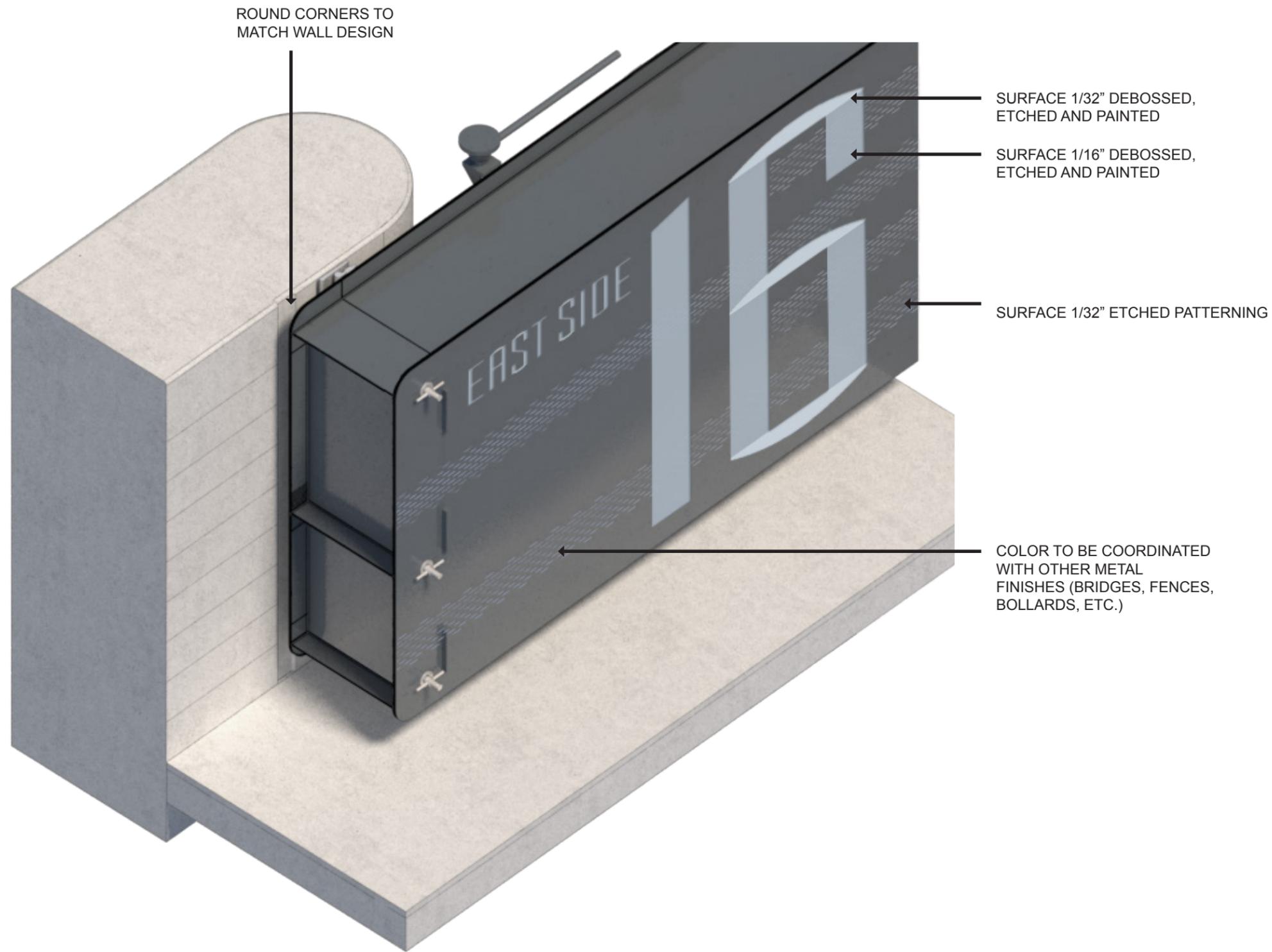
2. FLOODWALL SIGNAGE DETAIL



3. FLOODWALL SIGNAGE DETAIL - SECTION

# FLOODWALL SIGNAGE

## ELEVATION MARKERS



**TEXT + LABELING  
MUNSEL GREY PAINT (TYP)**



**TEXT + LABELING  
GW GREY PAINT (ASSER LEVY)**

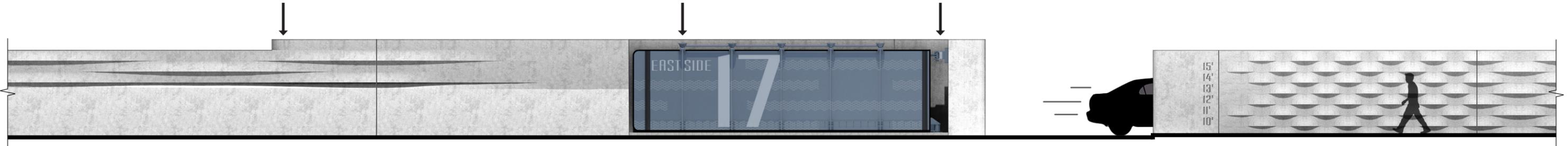
# FLOODWALL SIGNAGE

## GATE MARKERS

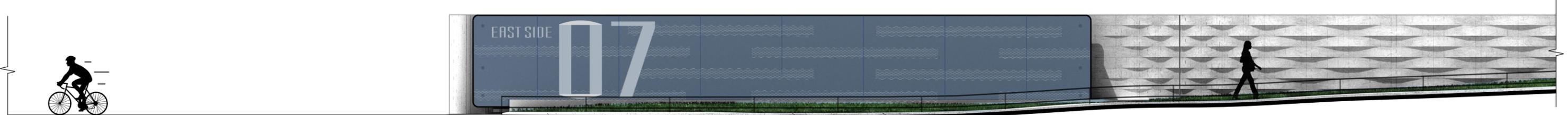
1' WALL STEP TO ACCOMMODATE SWING GATE HINGE

ADJUSTABLE HARDWARE FOR WATER SEAL

EXPOSED SWING GATE HINGES



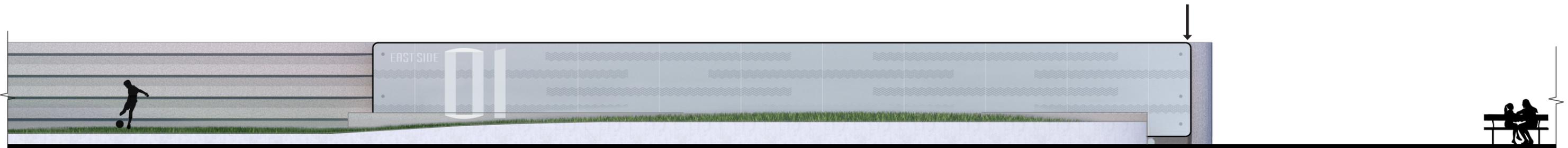
**TYPICAL SWING GATE (PIER 42)**



**TYPICAL ROLLER GATE (STUY COVE SOUTH)**

RETAINING WALL GATE POCKET

ROUNDED CORNERS



**ROLLER GATE WITHIN ASSER LEVY PLAYGROUND**

EXPOSED CASTERS BENEATH ROLLER GATES

# **WHAT WE'VE HEARD**

- **Dog run**
- **Comfort Station at Murphy Brothers Playground**
- **Preservation of the Fire Boat House**
- **Activate Waterside Pier and Pier 42 deck**
- **Mitigation strategies for access to district amenities**
- **Waterside Plaza access and egress**
- **Ambulance access to First Avenue “hospital row” corridor**
- **Treat Asser Levy envelope as one contiguous space**
- **Contextually appropriate design for interceptor gate house**
- **Signage design to maintain neighborhood identity**
- **Institute a phased construction timeline**
- **Plan for noise and dust mitigation in construction area**
- **Robust social media strategy during construction**

An aerial architectural rendering of a city neighborhood, overlaid with a semi-transparent teal filter. The scene shows a dense urban grid of buildings, a river flowing through the lower right, and a suspension bridge crossing the river. In the foreground, a park area is highlighted with green grass, trees, and a tennis court. The text 'NEIGHBORHOOD PARK IMPROVEMENTS' is centered in white, bold, sans-serif font.

# **NEIGHBORHOOD PARK IMPROVEMENTS**

# ANTICIPATED NEIGHBORHOOD IMPROVEMENTS

## PARK UPGRADES



ASPHALT TO TURF (7 SITES)



SOLAR FIELD LIGHTS (6 SITES)



ACCOMMODATING FIELD USERS



TREE PLANTINGS (1,000) & RAIN GARDENS (40)



SPORTS COATING (7 SITES)



PAINTING (16 SITES)

# ANTICIPATED NEIGHBORHOOD IMPROVEMENTS

MORE PROGRAMMING AND NEW PARK SPACES



LAGUARDIA BATH HOUSE



TANAHEY PLAYGROUND



PIER 42 PHASE 1: UPLAND PARK



NYCHA OPEN SPACE IMPROVEMENTS



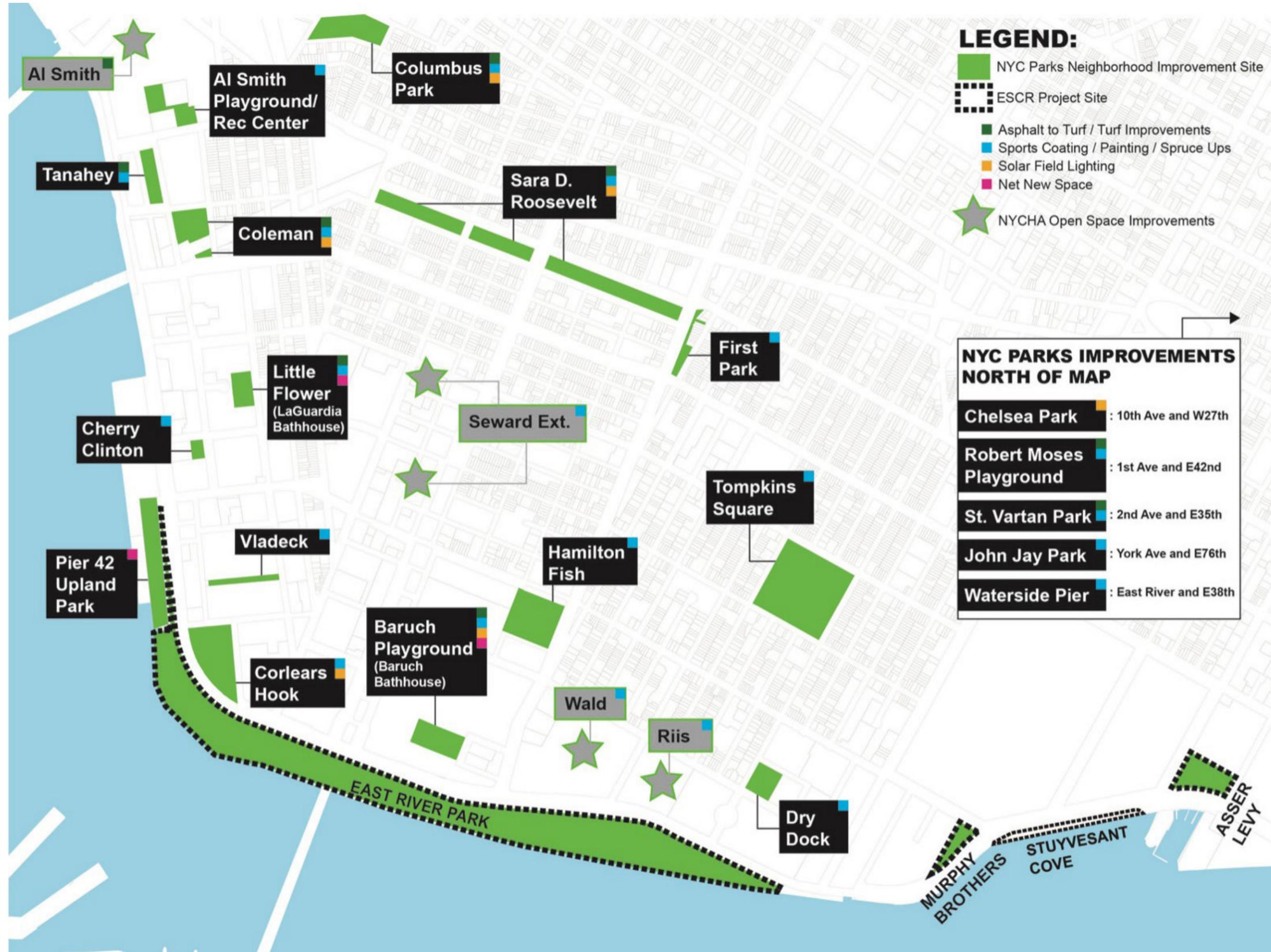
MORE NEIGHBORHOOD PARK STAFF



MORE RECREATIONAL PROGRAMMING

# ANTICIPATED NEIGHBORHOOD IMPROVEMENTS

MORE PROGRAMMING AND NEW PARK SPACES

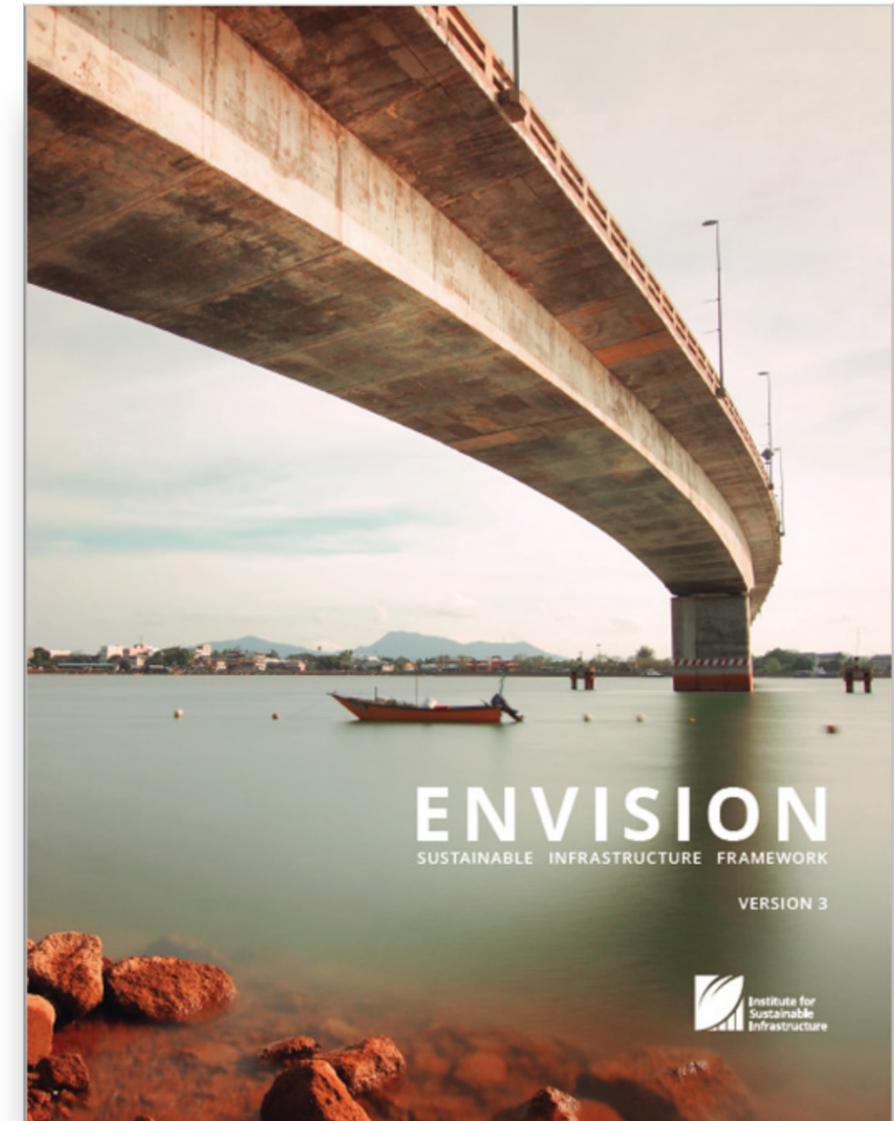


An aerial architectural rendering of a city waterfront development. The scene shows a dense urban grid of buildings on the left, transitioning into a waterfront area with a suspension bridge crossing a body of water. The waterfront area includes several green spaces, parks, and what appears to be a sports field or stadium. The entire image is overlaid with a semi-transparent teal color.

# **ENVISION SUSTAINABILITY RATING SYSTEM**

# ENVISION SUSTAINABILITY RATING SYSTEM

**The written framework for resiliency and sustainability created by a joint collaboration:**



<https://sustainableinfrastructure.org/envision-version-3/>

# ENVISION AND ESCR

A framework that includes 64 sustainability and resilience indicators, called ‘credits’, organized around 5 categories:



## Project’s *Envision Pre-Assessment Checklist* Preliminary Results, conducted by PM/CM:

Credit Category	Applicable	Pre-Assessment Review	Percentage
Quality of Life	200	159	80%
Leadership	182	99	54%
Resource Allocation	196	25	13%
Natural World	194	64	33%
Climate and Resilience	146	121	83%
Total Points/%	<b>918</b>	<b>468</b>	<b>51%</b>

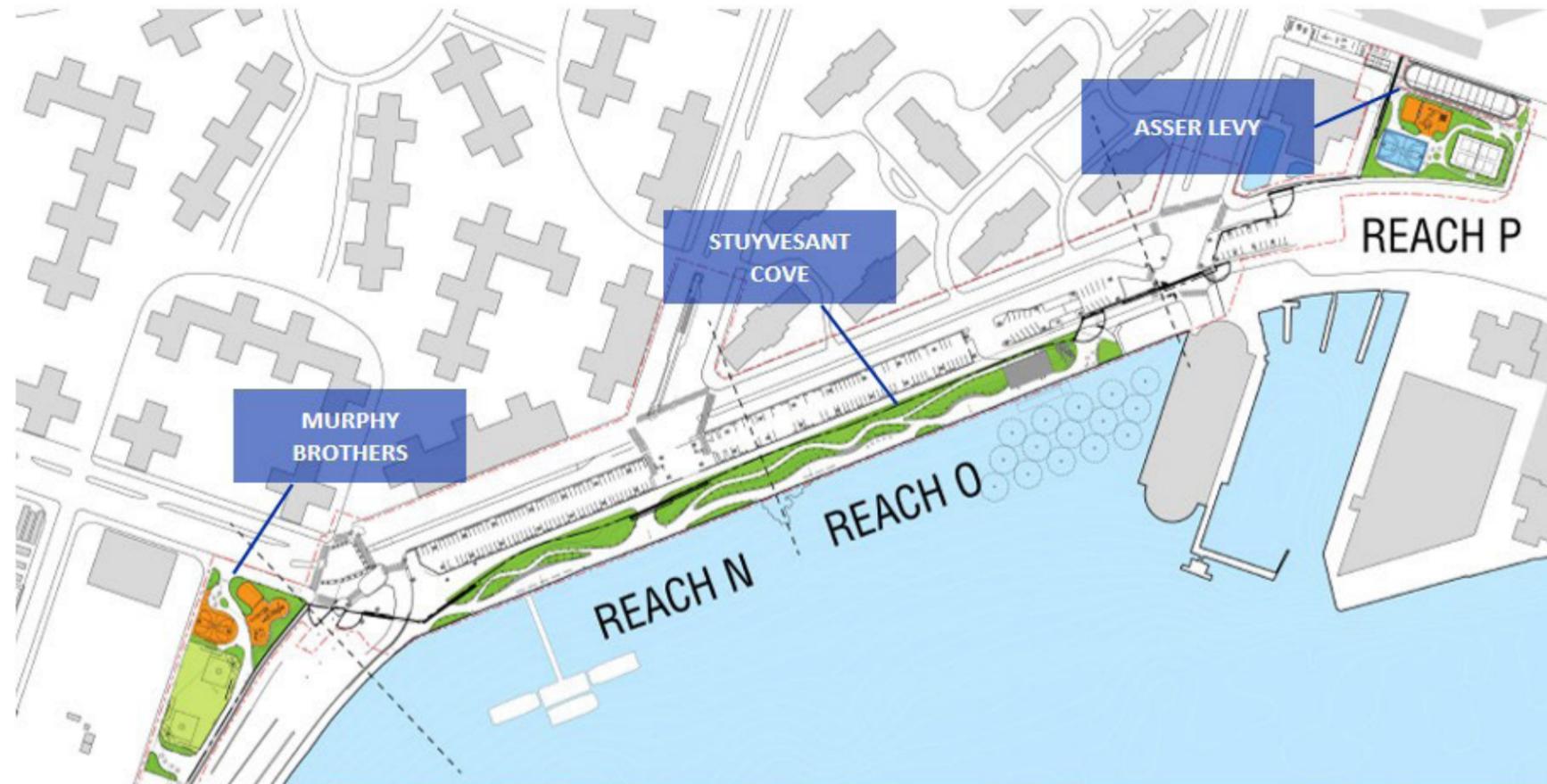
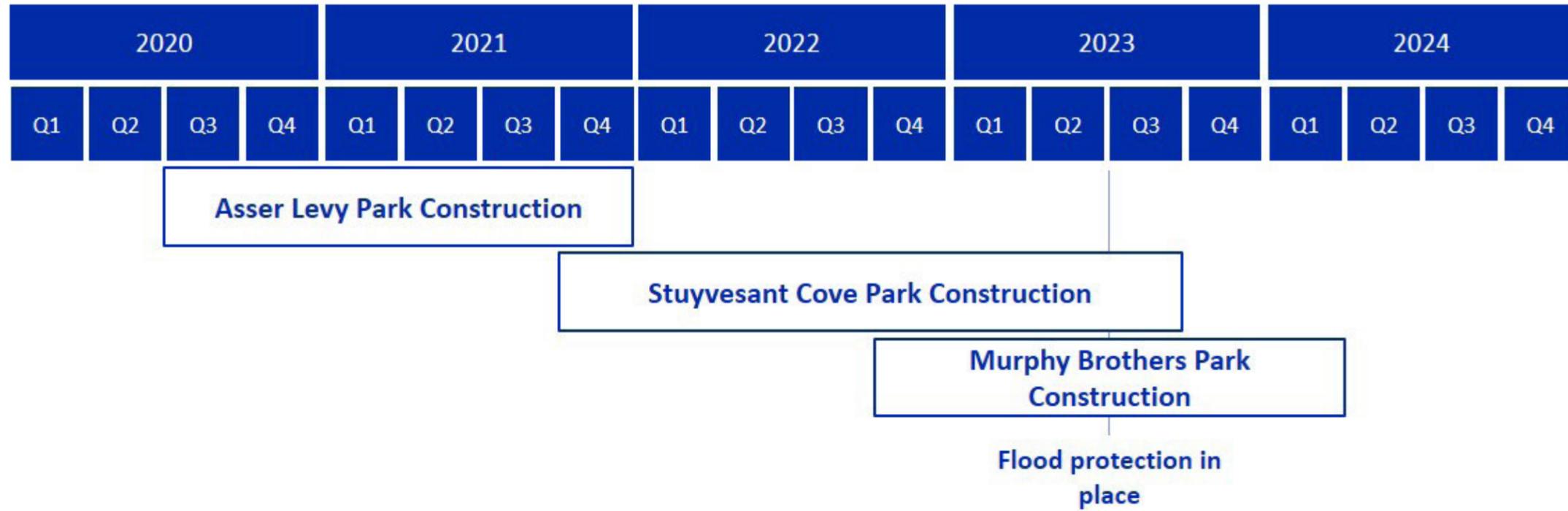


An aerial architectural rendering of a city waterfront development project. The scene shows a dense urban grid of buildings along a riverbank. A prominent feature is a suspension bridge crossing the river. In the foreground, there are several green, landscaped areas, including what appears to be a park or sports field. The entire image is overlaid with a semi-transparent teal color. The text is centered in the middle of the image.

**PROJECT AREA 2  
CONSTRUCTION PHASING**

# CONSTRUCTION PHASING FOR PROJECT AREA 2

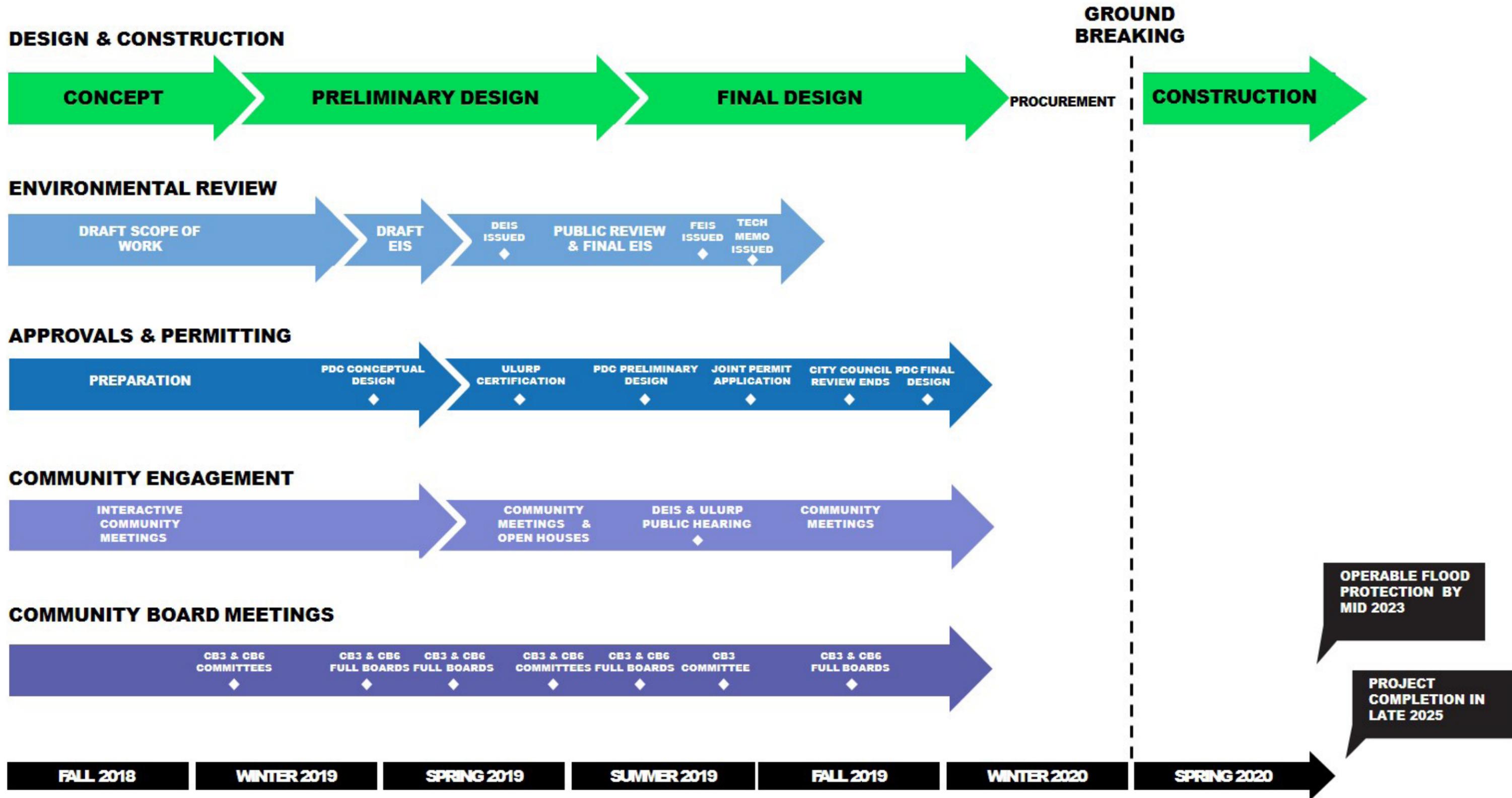
**IN PROGRESS - DRAFT FOR DISCUSSION ONLY**



An aerial architectural rendering of a city waterfront development project. The scene shows a dense urban grid of buildings on the left, transitioning into a waterfront area with a suspension bridge crossing a body of water. Along the waterfront, there are several green sports fields, including what appears to be a baseball field and several soccer fields. The entire image is overlaid with a semi-transparent teal color. The text 'PROJECT SCHEDULE' is centered in the middle of the image in a bold, white, sans-serif font.

# PROJECT SCHEDULE

# PROJECT SCHEDULE OVERVIEW



# Website

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

NYC The East Side Coastal Resiliency Project Русский Translate Text-Size

Home Vision Background Progress Get Involved Resources Search

**Public Input Sessions: Using the tools of design to engage residents and stakeholders in decision making**

### 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

**Visit Us!**  
**[www.nyc.gov/escr](http://www.nyc.gov/escr)**  
Twitter: @NYClimate