East Side Coastal Resiliency

CB3 Parks Committee
30 Delancey Street (BRC Senior Services Center)

December 12, 2019











PRESENTATION AGENDA

PROJECT BACKGROUND
SITE DESIGN UPDATE: PROJECT AREA 1
FLOODWALL SIGNAGE
PARK MATERIALS & PLANTING
ENVISION SUSTAINABILITY RATING SYSTEM
PROJECT SCHEDULE



PROVIDE FLOOD PROTECTION



PROJECT BACKGROUND

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.



WHAT WE'VE HEARD

DESIGN PHASE

- Signage design and neighborhood identity
- Contextually appropriate design for buildings
- Skateboard deterrent
- Waterplay Feature
- Amphitheater design and canopy
- Emergency access: Houston St. and Colears Hook Bridge
- Additional BBQ areas in East River Park
- Tree plantings and shade
- Planted vs hardscape surface (permeable vs impermeable)
- Active vs passive space

CONSTRUCTION PHASE

- Fireboat House
- Accommodating LESEC
- Activate Waterside Pier and Pier 42 deck
- Mitigation strategies for interim rec and district amenities
- Phased construction timeline
- Spring-Summer 2020 construction work
- Noise and dust mitigation during construction
- Outreach and social media during construction

SITE DESIGN UPDATE: PROJECT AREA 1

PROJECT AREA 1

SITE DESIGN



MONTGOMERY ST. TIE-BACK

ROLLER GATE OPEN



MONTGOMERY ST. TIE-BACK

ROLLER GATE CLOSED



MANHATTAN GREENWAY

RENDERING



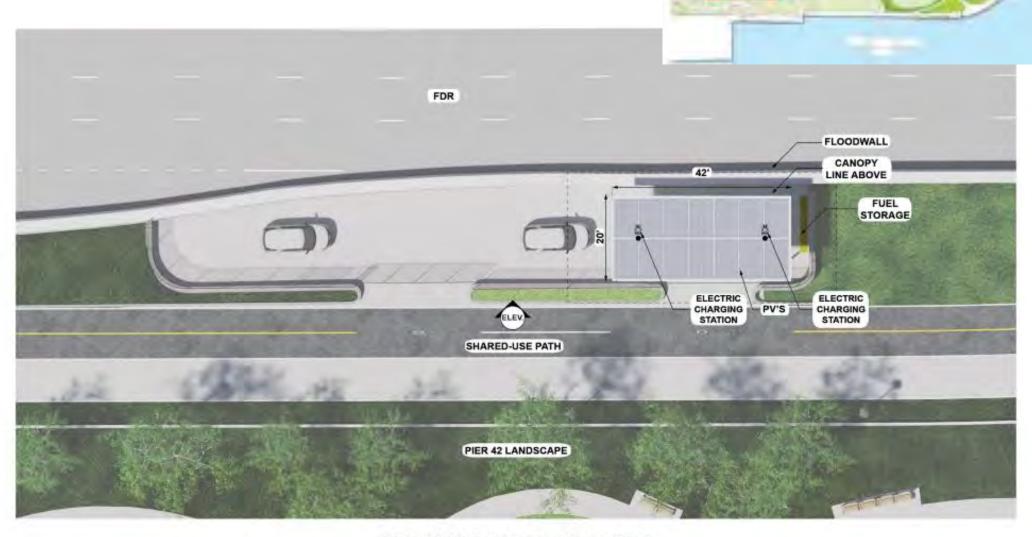
PIER 42 MAINTENANCE AREA

RENDERING

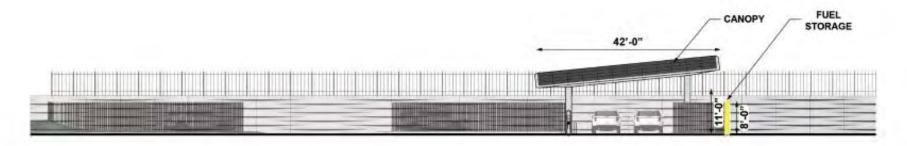


PIER 42 MAINTENANCE AREA

SITE PLAN & ELEVATION



Pier 42 Maintenance Area Plan



Pier 42 Maintenance Area Elevation

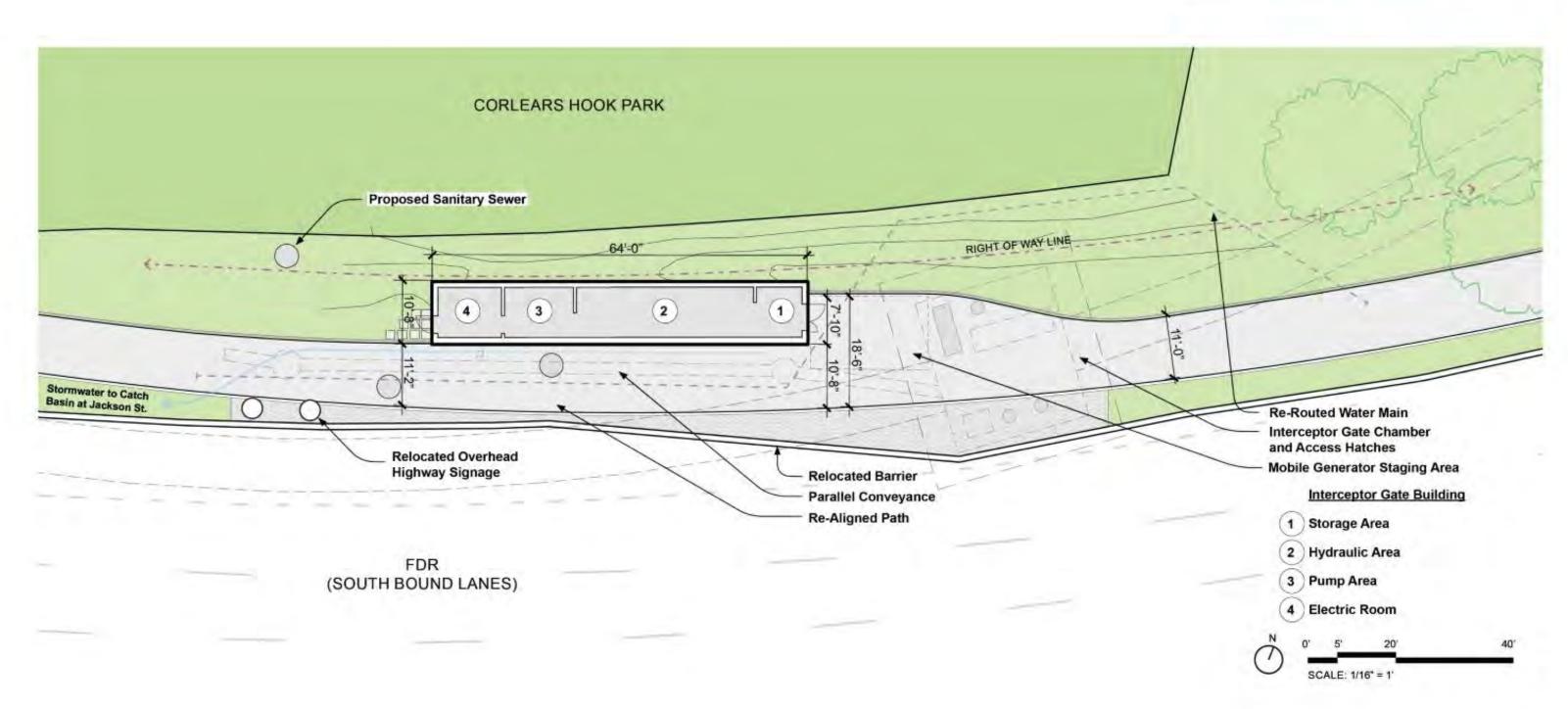
SOUTH GATE BUILDING



SOUTH GATE BUILDING

SITE PLAN





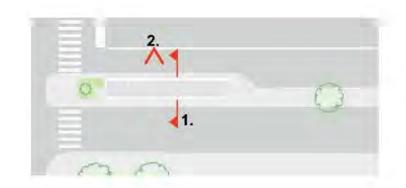
INTERCEPTOR GATE BUILDING

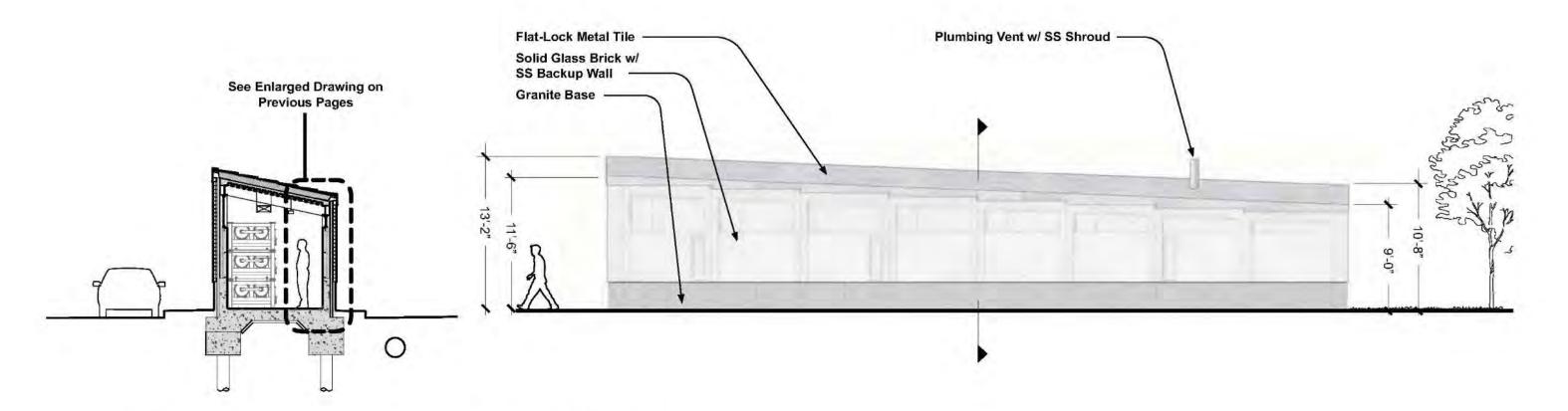
VIEW FROM NORTHWEST



INTERCEPTOR GATE BUILDING

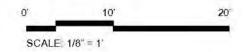
SECTION AND ELEVATION





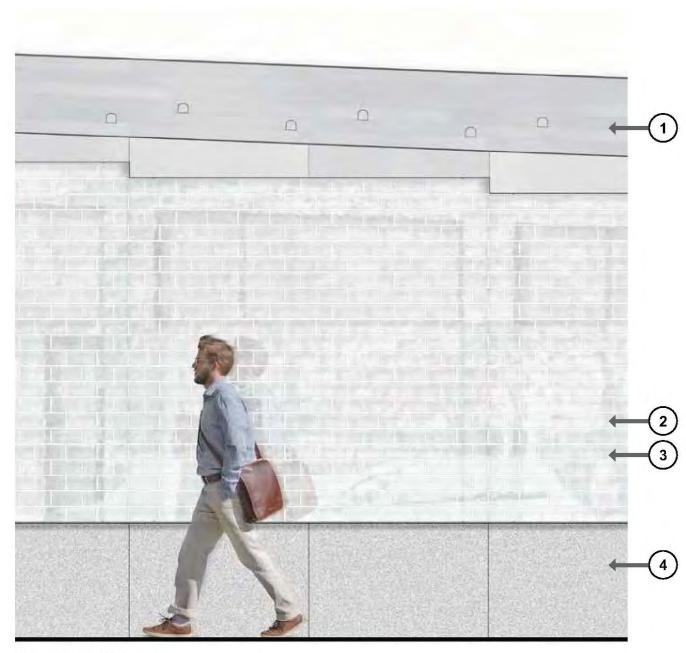
1. CROSS SECTION

2. NORTH ELEVATION



INTERCEPTOR GATE BUILDING

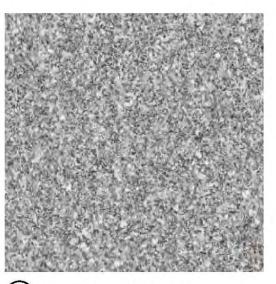
MATERIAL PALETTE



DETAIL ELEVATION



2 SOLID GLASS BRICK Facade



Barre Grey Granite
Stone Base



1 FLAT-LOCK METAL TILE Sloped Roof Assembly



3 STAINLESS STEEL
Backup Wall & Doors

CORLEARS HOOK TO DELANCEY ST.

AERIAL OVERVIEW



CORLEARS HOOK BRIDGE

RENDERING



CORLEARS HOOK BRIDGE

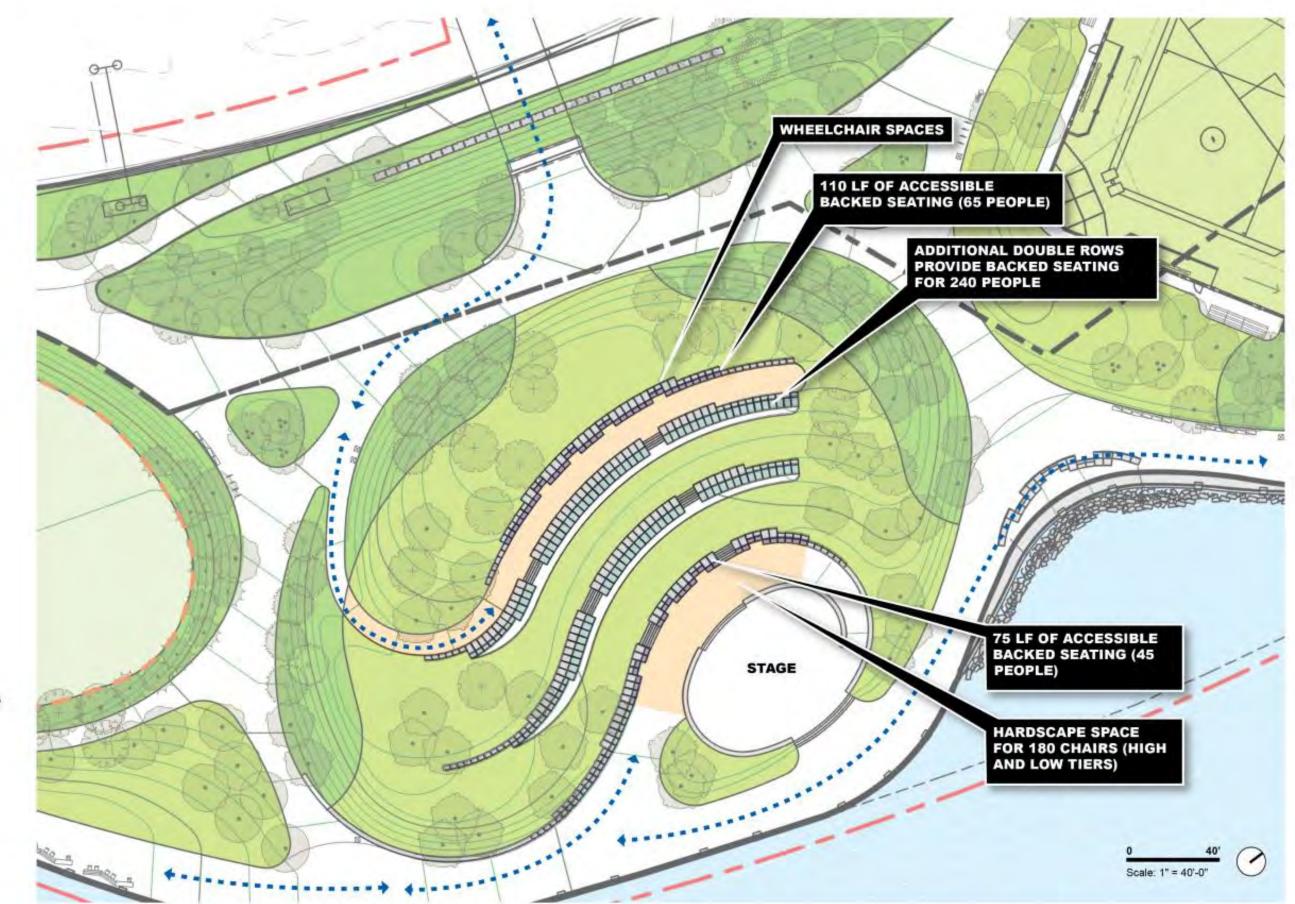


AMPHITHEATER



AMPHITHEATER

SEATING



ACCESSIBLE BACKED SEATING
(110 PEOPLE)

BACKED SEATING
(220 PEOPLE)

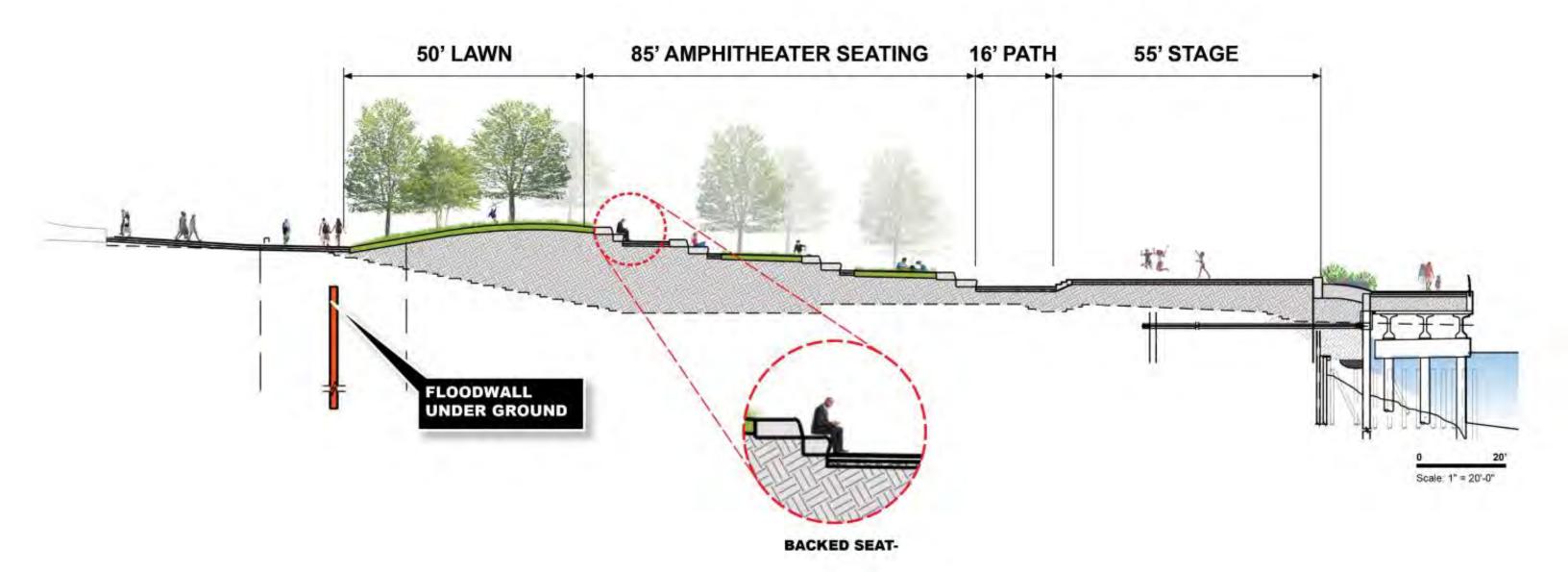
ACCESSIBLE HARDSCAPE
(180 PEOPLE)

← - → ACCESSIBLE PATH

AMPHITHEATER

SECTION





NATURE EXPLORATION

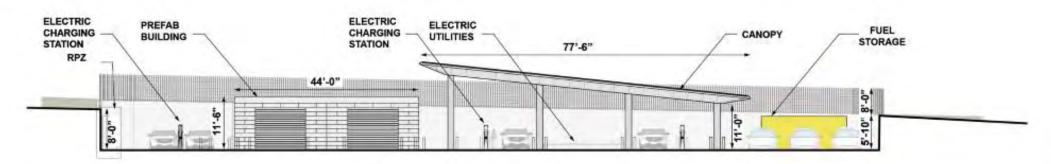


DELANCEY ST. MAINTENANCE AREA

PLAN VIEW AND ELEVATION



Delancey Maintenance Area Plan



Delancey Maintenance Area Elevation

DELANCEY ST. OVERLOOK



DELANCEY ST. OVERLOOK



DELANCEY ST. BRIDGE



DELANCEY ST. BRIDGE

RENDERING



DELANCEY ST. BRIDGE



DELANCEY ST. TO HOUSTON



TENNIS HOUSE

PARK VIEW

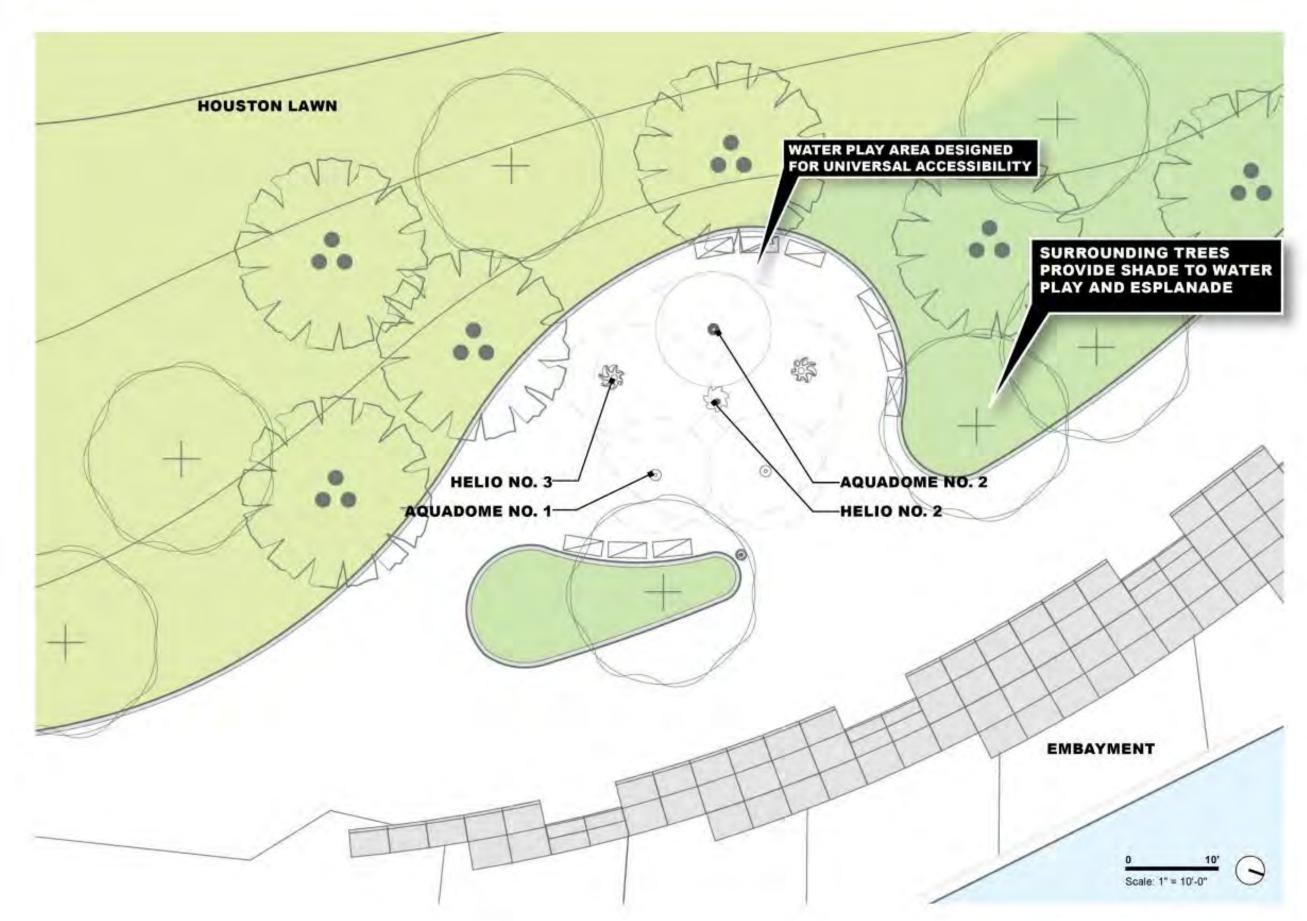


ESPLANADE EMBAYMENT



WATER PLAY

DETAIL PLAN



WATER PLAY FEATURES

EQUIPMENT PALETTE







VORTEX AQUADOME 1

VORTEX AQUADOME 2





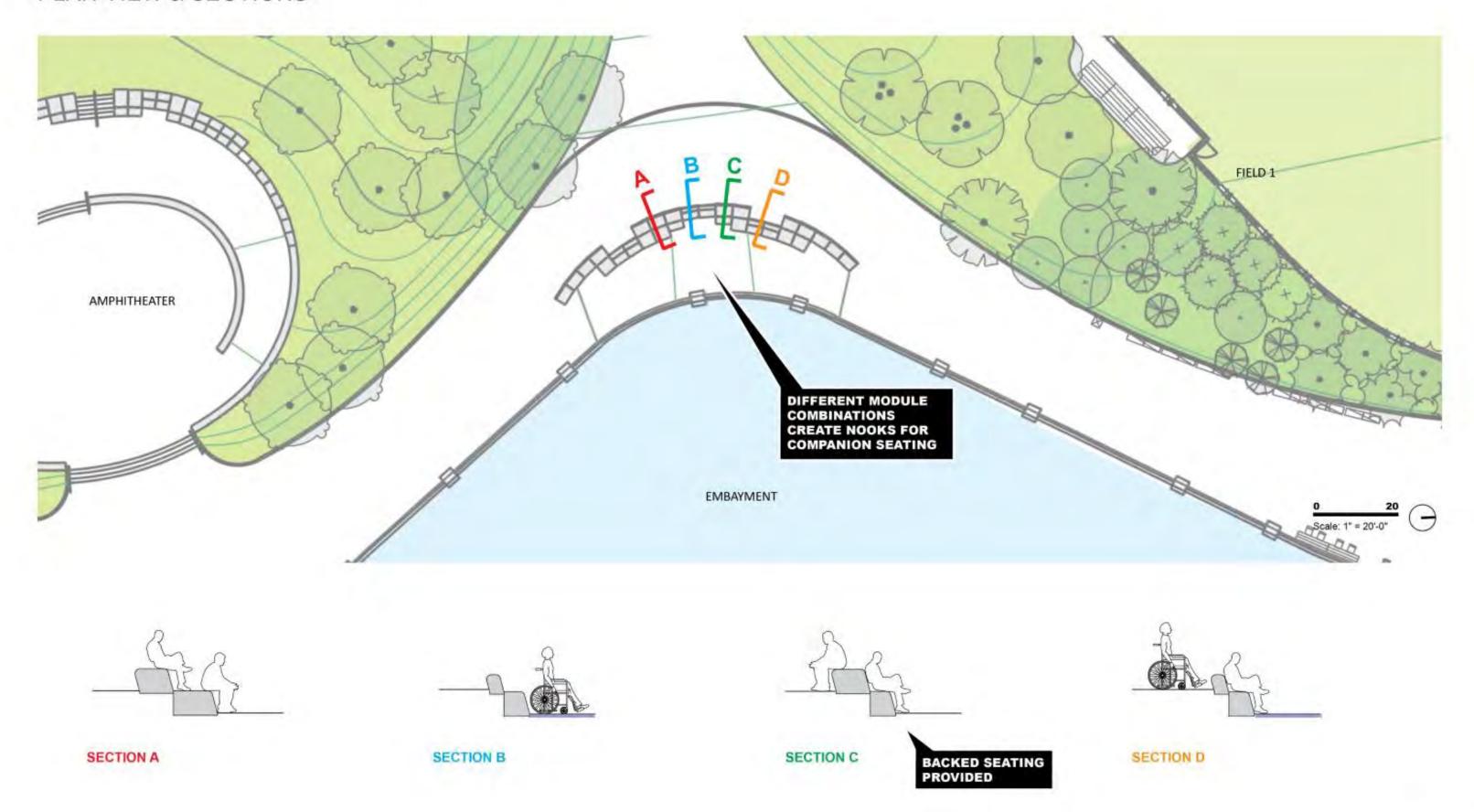




ESPLANADE EMBAYMENT AERIAL VIEW
WATER PLAY ENLARGEMENT

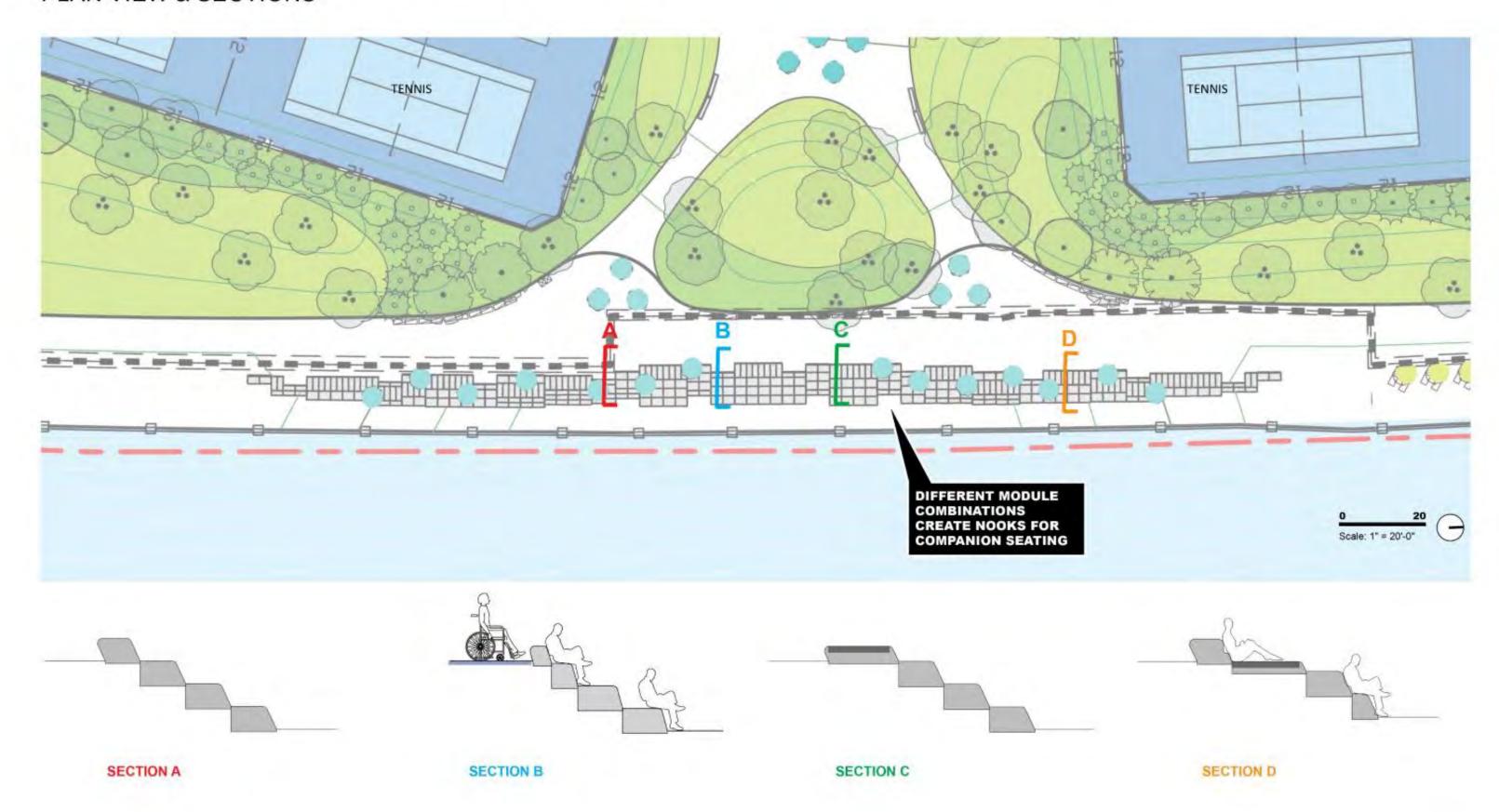
ESPLANADE EMBAYMENT

PLAN VIEW & SECTIONS



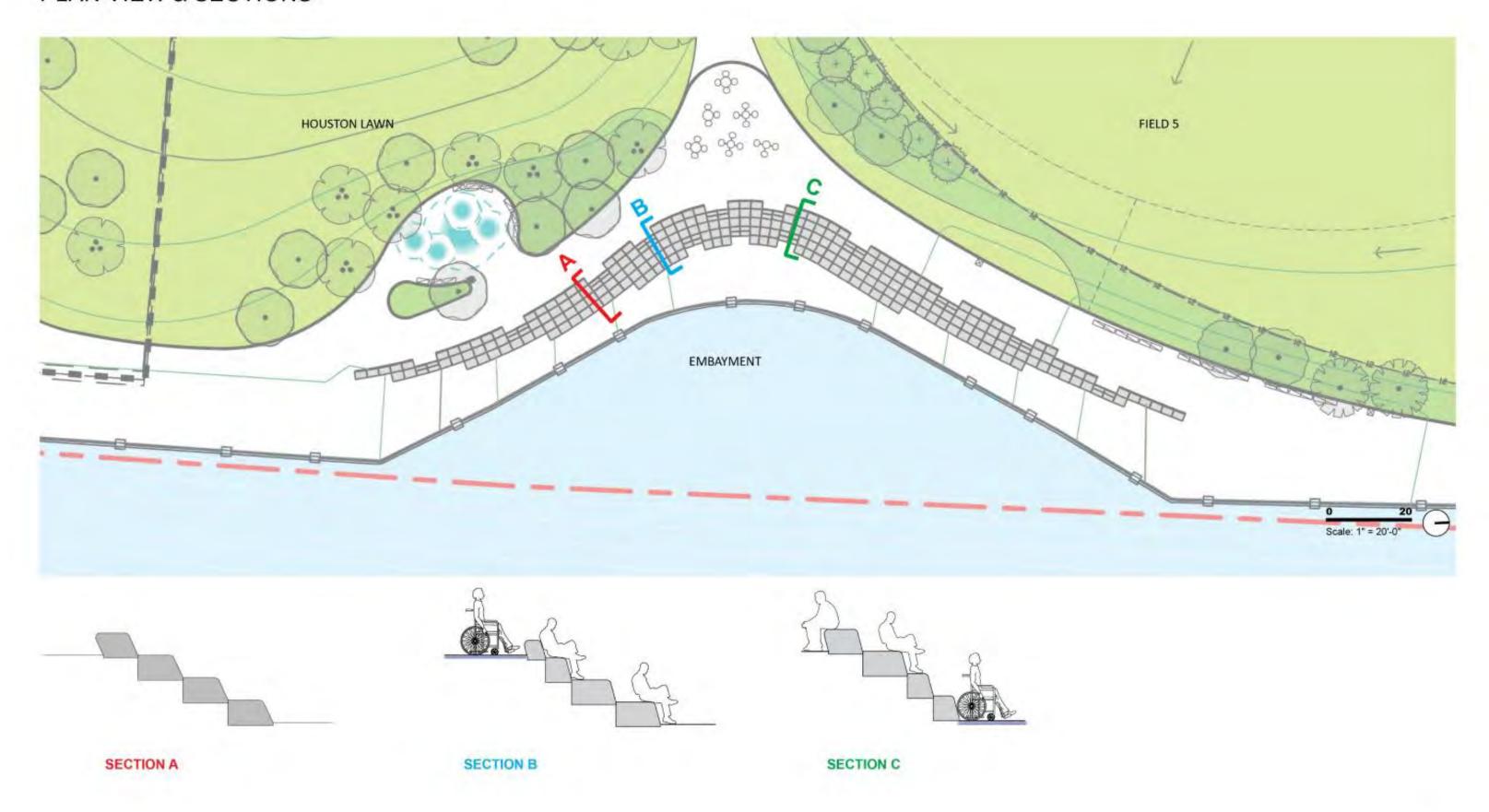
TENNIS HOUSE EMBAYMENT

PLAN VIEW & SECTIONS



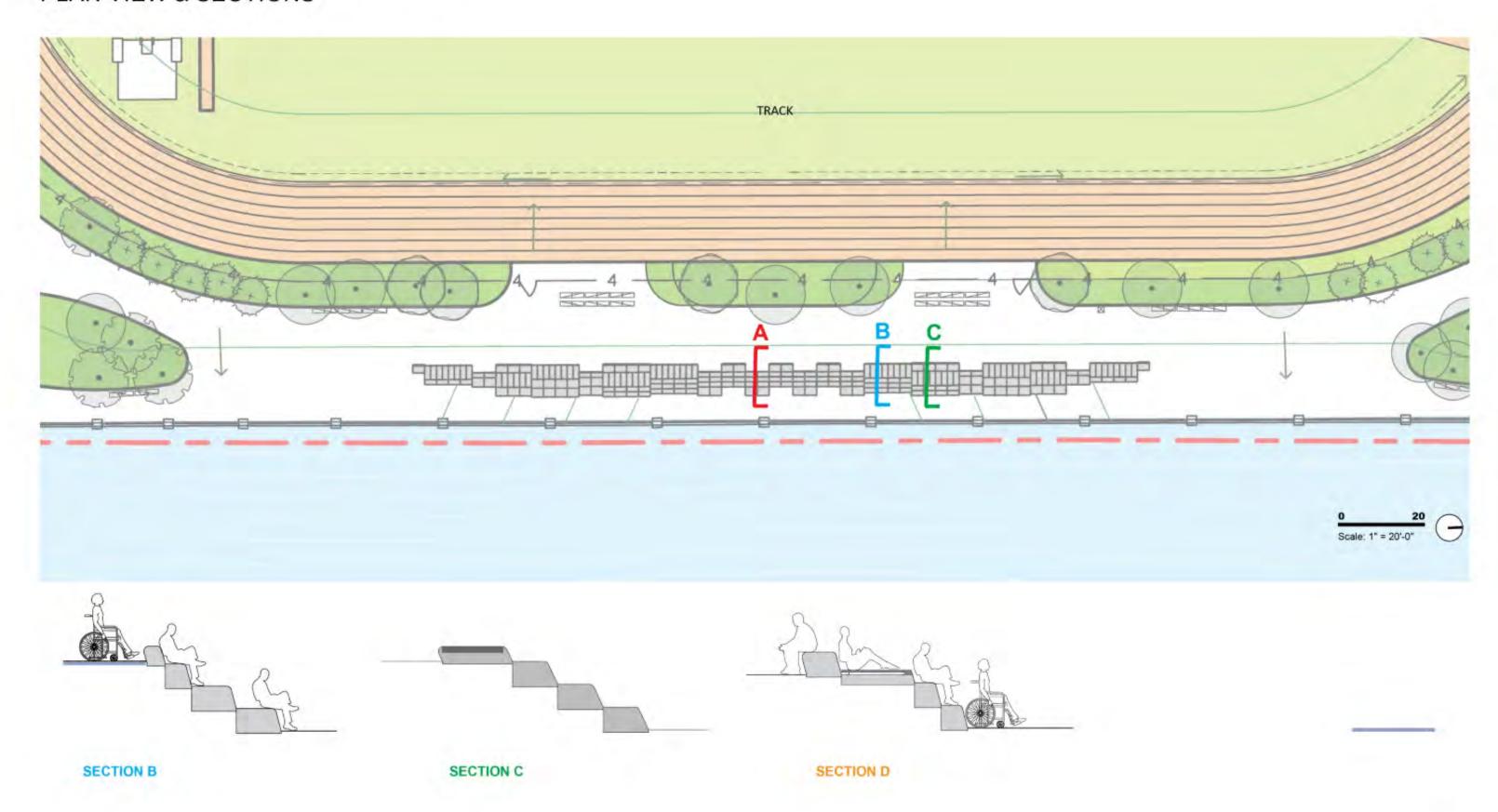
HOUSTON EMBAYMENT

PLAN VIEW & SECTIONS



TRACK EMBAYMENT

PLAN VIEW & SECTIONS



HOUSTON TO E. 10TH ST.

AERIAL VIEW



TRACK HOUSE

PARK VIEW



FITNESS AREA AND CHALLENGE COURSE

OVERVIEW



FITNESS AREA

EQUIPMENT PALETTE



BALANCE BEAM AND TRIPLE BARS (MODIFIED)



PUSH UP AND LEG LIFT & UNIVERSAL CHEST PRESS



BENCH



STEPS



ARM BIKE



HIGH TRIPLE BARS (MODIFIED)



HEXAGON PULL UP STATION



PUSH UP BARS (MODIFIED)

CHALLENGE COURSE

EQUIPMENT PALETTE

















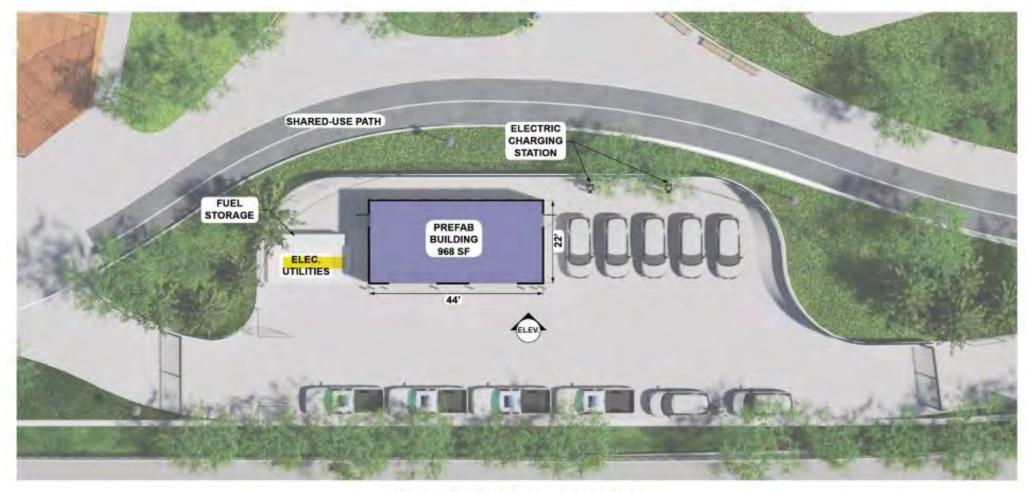




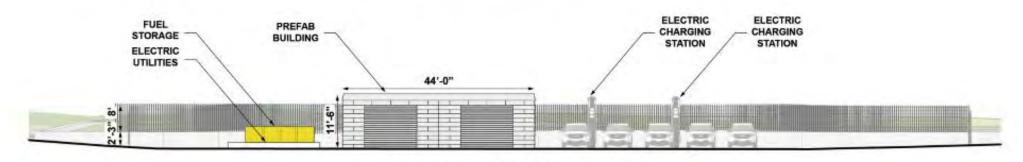


TRACK MAINTENANCE AREA

PLAN VIEW & ELEVATION



Track Maintenance Area Plan



Track Maintenance Area Elevation

FDR VIEW



FDR VIEW



CITY-SIDE LANDING



RENDERING



PARK-SIDE LANDING



E. 10TH ST. COMFORT STATION

PARK VIEW



E. 13TH ST. FLOODWALL

AERIAL VIEW



PINCH POINT FLYOVER BRIDGE

PLAN VIEW



BRIDGE APPROACH

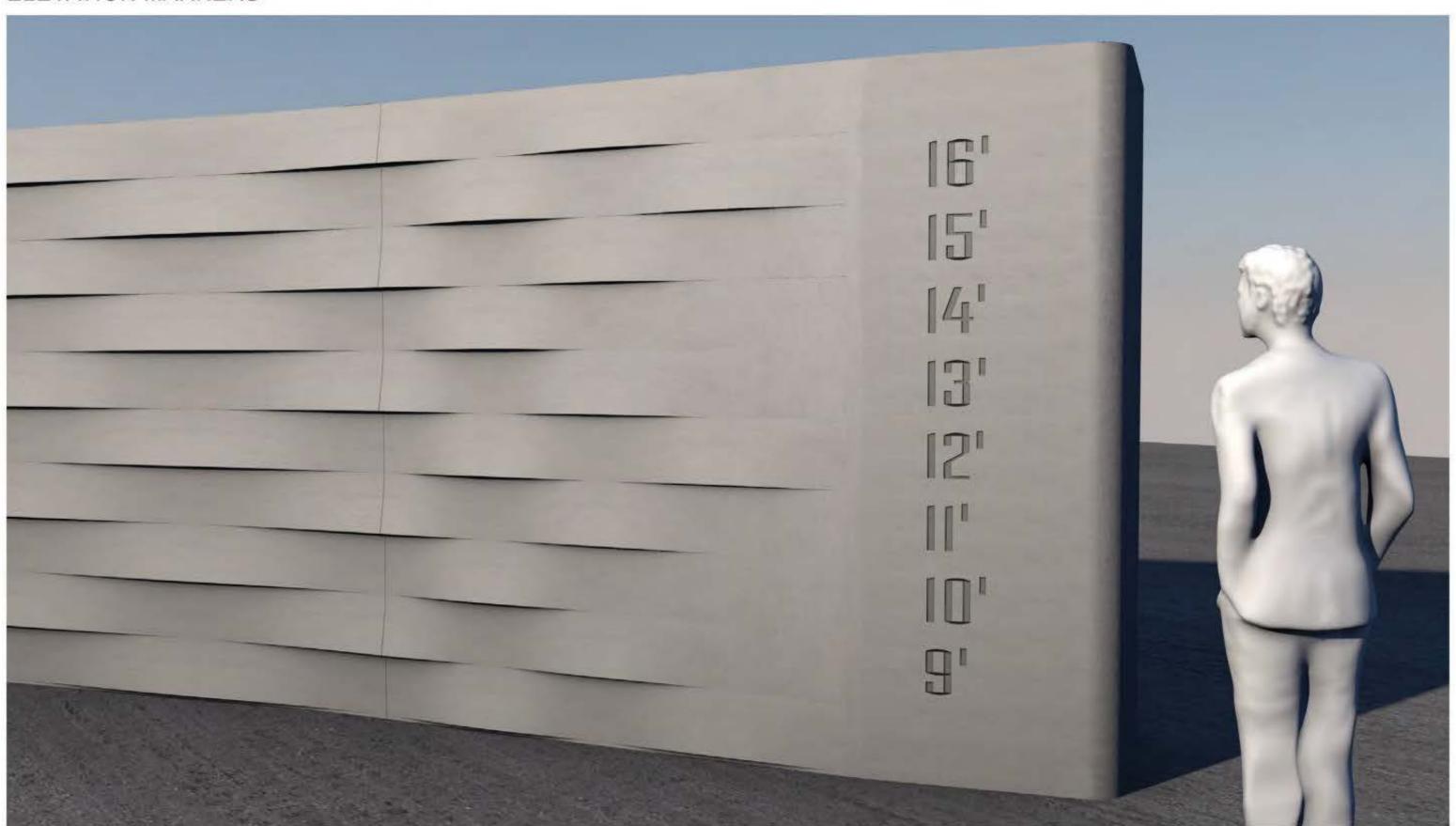
FLYOVER BRIDGE FOUNDATION

PINCH POINT AREA

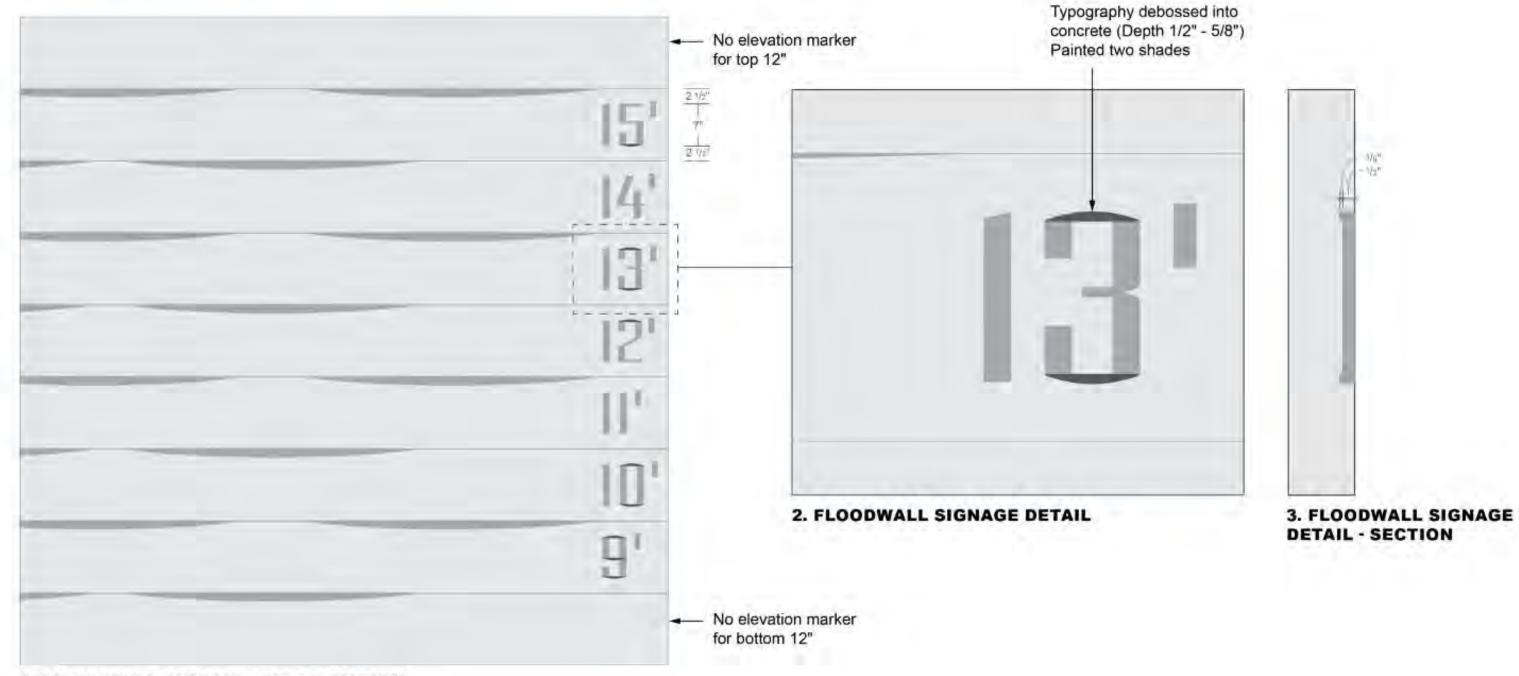
AERIAL VIEW



ELEVATION MARKERS

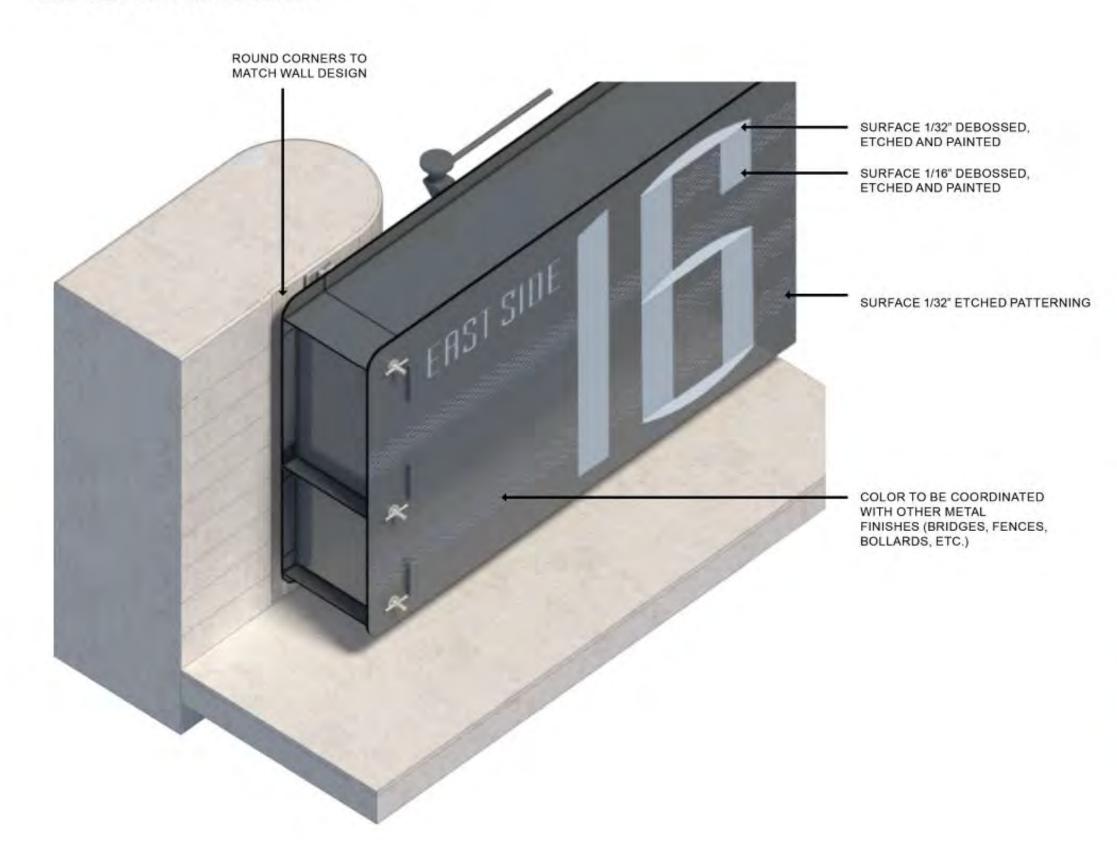


ELEVATION MARKERS



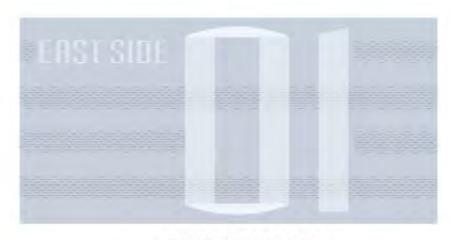
1. FLOODWALL SIGNAGE TYP. ELEVATION

ELEVATION MARKERS



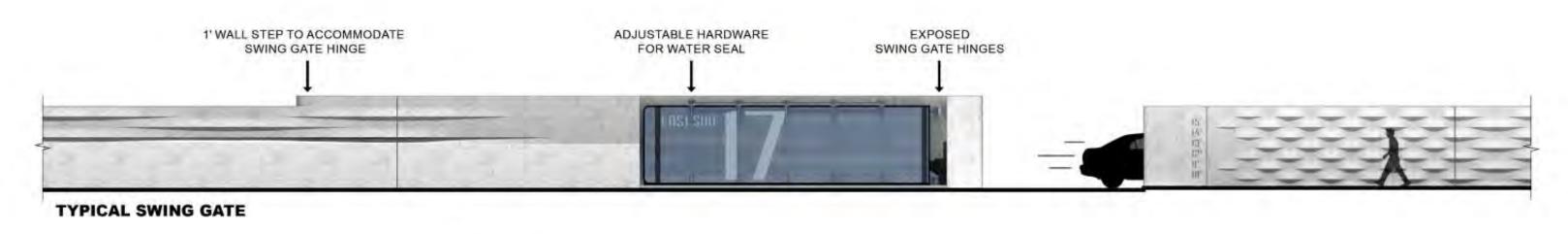


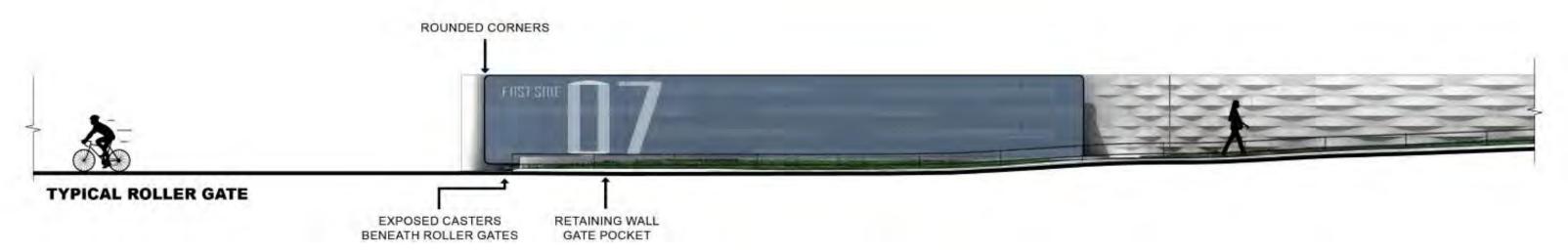
TEXT + LABELING MUNSEL GREY PAINT (TYP)



TEXT + LABELING GW GREY PAINT (ASSER LEVY)

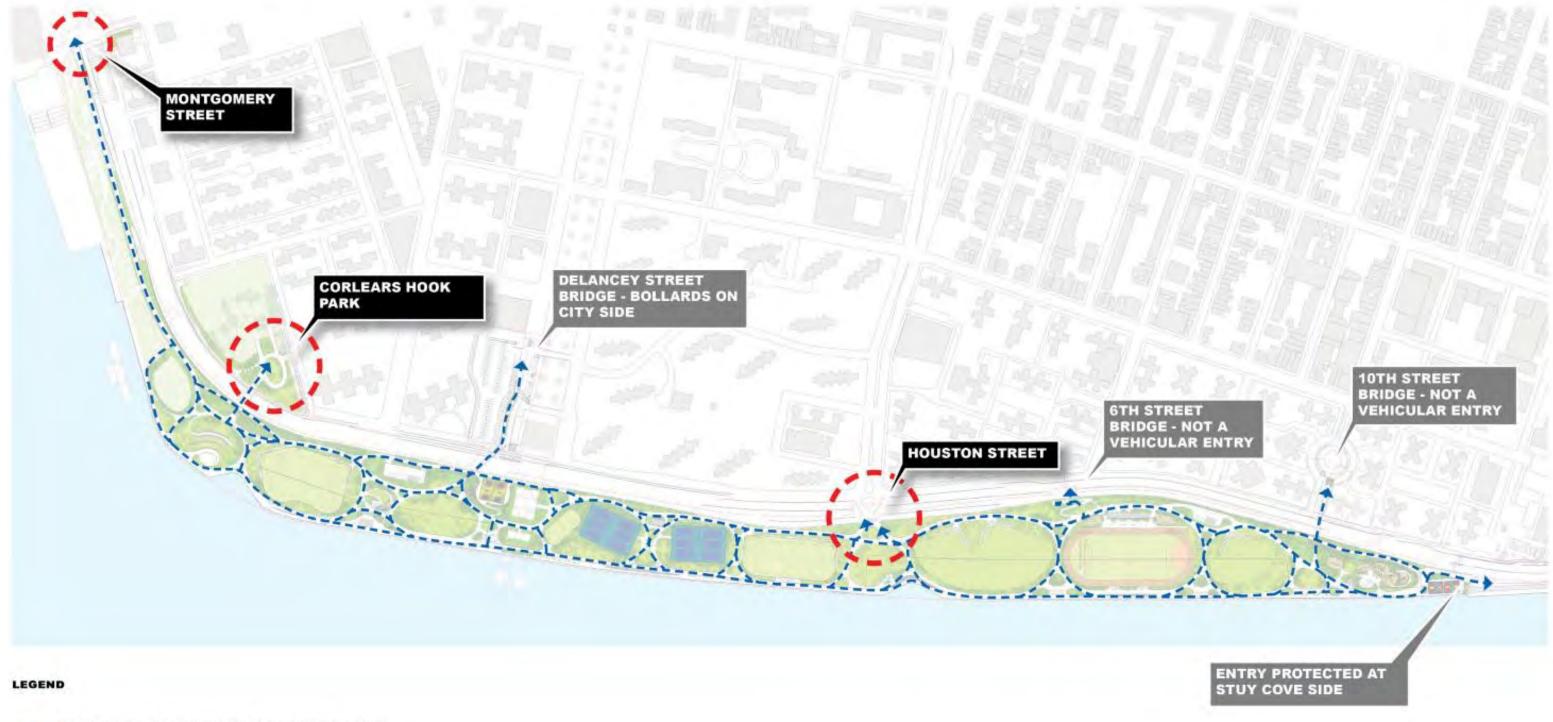
GATE MARKERS





AUTHORIZED VEHICULAR ACCESS

PA₁



--- MAJOR CIRCULATION PATHS (EAST RIVER PARK)



MATERIALS & PLANTING



Park Materials Key Plan PA1



STANDARD BENCH (BACK) 1964 WORLD'S FAIR

WITHARMS 8'-0" & 4'-0" LENGTH RPL SLATS, WEATHERED WOOD LOCATION: ALL PROJECT AREAS



STANDARD BENCH (NO BACK) 1964 WORLD'S FAIR

WITH OR WITHOUT ARMS 8'-0" LENGTH RPL SLATS, WEATHERED WOOD LOCATION: EAST RIVER PARK AND STUYVESANT COVE PARK WATERFRONT ESPLANADES



STANDARD TYPE 'C' SPORTS BENCH

WITHOUT ARMS & BACKS 7'-0" LENGTH RPL SLATS, WEATHERED WOOD LOCATION: SPORTS FIELDS



STANDARD PICNIC TABLE & **ACCESSIBLE PICNIC TABLE**

7'-0" LENGTH RPL SLATS, WEATHERED WOOD LOCATION: BBQ AND PICNIC AREAS IN EAST RIVER PARK, MURPHY BROTHERS PLAYGROUND & ASSER LEVY PLAYGROUND



CAROUSEL SEATING

3 OR 4 SEATS WITH BACKS DINING HEIGHT, LANDSCAPE FORMS COLOR SILVER LOCATION: EAST RIVER PARK **ECOLOGY PLAZA**



STANDARD BOTTLE FILLER WITH **HI-LO DRINKING FOUNTAINS**

ELKAY MODEL LK4430BF1UNYC COLOR GRAY/SILVER



STANDARD SPORTS STEEL SPRAY FIXTURE

AQUAJEUX MODEL 1507-MALF-08 COLOR GRAY/SILVER



BBQ GRILL CLUSTER OF THREE

MDF, INC. COLOR BLACK



NYC DOT CITYRACK "HOOP" COLOR GRAY/SILVER





STANDARD PUB-LIC SPACE BINS

TRASH RECEPTACLE MAGLIN MODEL: CMLWR9074032HST COLOR GRAY W/ **BLACK LID**



BIGBELLY RECYCLING RECEPTACLE

Furnishings and Equipment Site Furnishings



BAR STOOL, 1964 WORLD'S FAIR 1'-6" WIDTH 4'-9" LENGTH **RPL SLATS, WEATHERED WOOD LOCATION: ESPLANADE**



CHAIR, 1964 WORLD'S FAIR 1'-6" WIDTH RPL SLATS, WEATHERED WOOD LOCATION: ESPLANADE



CHAISE LOUNGE, 1964 WORLD'S FAIR 2'-1" WIDTH **RPL SLATS, WEATHERED WOOD LOCATION: ESPLANADE**



BAR TOP TABLE HIGH HEIGHT 22'-0" LENGTH RPL SLATS, WEATHERED WOOD LOCATION: ESPLANADE



BAR TOP TABLE LOW HEIGHT 22'-0" LENGTH RPL SLATS. WEATHERED WOOD LOCATION: ESPLANADE



LANDSCAPE FORMS LOCATION: ESPLANADE COLORS: OCEAN / SEAGREEN/GREEN / FLAMBEE ORANGE / TANGERINE



ACCESSIBLE PICNIC TABLE 8'-0" LENGTH PERFORATED METAL LOCATION: EAST RIVER PARK



SOLSTICE UMBRELLA - ALTAIR LANDSCAPE FORMS PRECEDENT IMAGE

Park Furnishings Custom Furnishings





Shade Strategy PA1
Tree Canopy

IDENTIFY WHETHER SOME SPECIES MAY BE ABLE TO BE SOURCED

AT LARGER SIZES WITHOUT COMPROMISING TREE HEALTH.



UTILIZE STANDARD FLUSHING MEADOW LIGHT POLES.

THE PLANTING DESIGN
MAXIMIZES TREE PLANTING IN
THE PARK AND INCLUDES A HIGH
PROPORTION OF FAST TO MEDIUM
GROWING TREES.









Planting Key Plan PA1























- Location: Western urban edge of park.
 Ornamental understory trees, conifers, shrubs, and perennials provide visual interest along paths and slopes while buffering views
- · Maintenance: Trees, shrubs, groundcovers



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



- Location: Clearing edges and special areas
- Ornamental understory trees and a low perennial groundplane maintain veiled, eye-level
 sight lines
- · Maintenance: Trees, garden beds



- Location: Maritime edges of open spaces and esplanade
- Mid and Understory trees, maritime evergreens, shrubs, and grasses provide shade and interest along the river edge
- · Maintenance: Trees, shrubs, grasses

SHRUBS

GROUNDCOVERS



Catalpa speciosa Catalpa



Pinus thunburgii Japanese Black Pine



Gleditsia triacanthos Honey Locust



Pinus virginiana Virginia Pine



Metasequoia glyptos. Dawn Redwood





Quercus rubra Northern Red Oak



Nyssa sylvatica Blackgum

Quercus velutina

Black Oak



Pinus rigida Pitch Pine



Ulmus Americana 'Princeton' Princeton Elm



Aronia melanocarpa Black chokeberry



Ceanothus americanus New Jersey Tea



Clethra alnifolia Summersweet

llex opaca

American Holly

Quercus alba

White Oak



Diervilla lonicera N. Bush Honeysuckle



Prunus maritima Beach Plum



Rhus aromatica 'Gro-Low' Fragrant Sumac



Rosa carolina Carolina Rose



Rosa virginiana Virginia Rose



Morella penslyvanica Northern Bayberry



Rhus copallinum Winged Sumac



Rhus typhina Staghorn Sumac



Viburnum dentatum Southern Arrowwood



Baptisia australis Blue Indigo



Bouteloua curtipendula Sideoats Grama



Deschampsia cespitosa **Tufted Hair Grass**



Eutrochium dubium Coastal Joe Pye Weed



Eragrostis spectabilis Purple Lovegrass



Liatris spicata Blazing Star



Panicum amarum, Bitter Panicgrass 'Dewey Blue'



Pycnanthemum mutic. Mountain Mint



Schizachyrium scoparium Solidago sempervirens Little Bluestem



Seaside Goldenrod



Solidago juncea Early Goldenrod



Sporobolus cryptandrus Sand Dropseed



- Location: Edges of open spaces and esplanade
- Mid and Understory trees, maritime evergreens, shrubs, and grasses provide shade and interest along the river edge
- Maintenance: Trees, shrubs, grasses



MARITIME EDGES



Aesculus octandra Yellow Buckeye



Magnolia Virginiana Sweetbay Magnolia



Betula nigra 'Heritage' Heritage River Birch



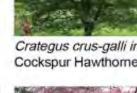
Malus 'Royal Raindrops' Crabapple Royal Raindrops Flowering Cherry



Cercis canadensis

Eastern Redbud

Crategus crus-galli iner. Cockspur Hawthome



Gymnocladus dioica Kentucky Coffee Tree



Quercus phellos Willow Oak



Liquidambar styraciflua Sweetgum



Syringa vulgaris 'Monge' Lilac



Amorpha frutiosa False indigo bush



Calicarpa americana Beautyberry



Prunus serrulata 'Mt Fuji'

Comptonia peregrina Sweetfern



Prunus x yed. 'Akebono'

Flowering Cherry

Cotinus obovatus Smokebush



Fothergilla major Fothergilla Major



Hydrangea quercifolia Oakleaf Hydrangea



Hydrangea tardiva Panicle Hydrangea



Itea virginica Virginia Sweetspire



llex glabra Inkberry



Physocarpus opulifolius Common Ninebark



Prunus laurocerasus Cherry Laurel



Spiraea tomentosa Steeplebush



Amsonia hubrichtii Hubricht's Bluestar



Anemone canadensis Canada anemone



Asclepias incarnata Swamp Milkweed



Asclepias tuberosa **Butterfly Milkweed**



Echinacea purpurea Purple Coneflower



Hibiscus coccineus Scarlot Rose Mallow



Mertensia virginica Virginia bluebells



Monarda punctata Spotted Beebalm



Panicum virgatum Ruby Ribbons Switchgrass



Phlox paniculata Garden Phlox



Rudebeckia hirta Black-Eyed Susan



Symphyotrichum noviangelli New Eng. Aster



LAYERED GROVES

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

Planting Palette PA1

Galium odoratum

Sweet Woodruff





Quercus nuttalli

Nutall Oak



Ginko biloba

Ginko















Southern Arrowwood



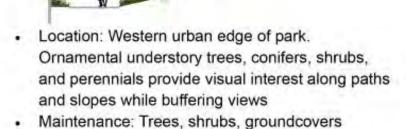


Vaccinium corymbosum

Highbush Blueberry

















Quercus coccinea

Scarlet Oak



Hammelis virginiana





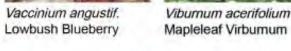




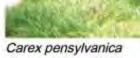


Lindera benzoin

Spicebush













Geranium macrorrhizum Bigroot Geranium

Pynanthemum tenuif. Slender Mountain Mint

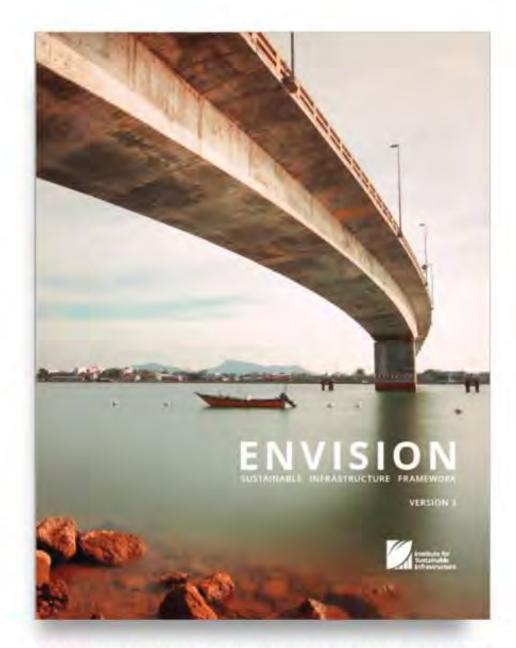
ENVISION SUSTAINABILITY RATING SYSTEM

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/%	918	468	51%



PROJECT SCHEDULE

CONSTRUCTION PHASING FOR EAST RIVER PARK: 2020

• Spring and Summer 2020: East River Park remains open with early construction packages:

Tree Transplants
Interim Passive Recreation Space

• Fall 2020 – Summer 2022: ~40% will remain open

• Fall 2020: ~60% will close

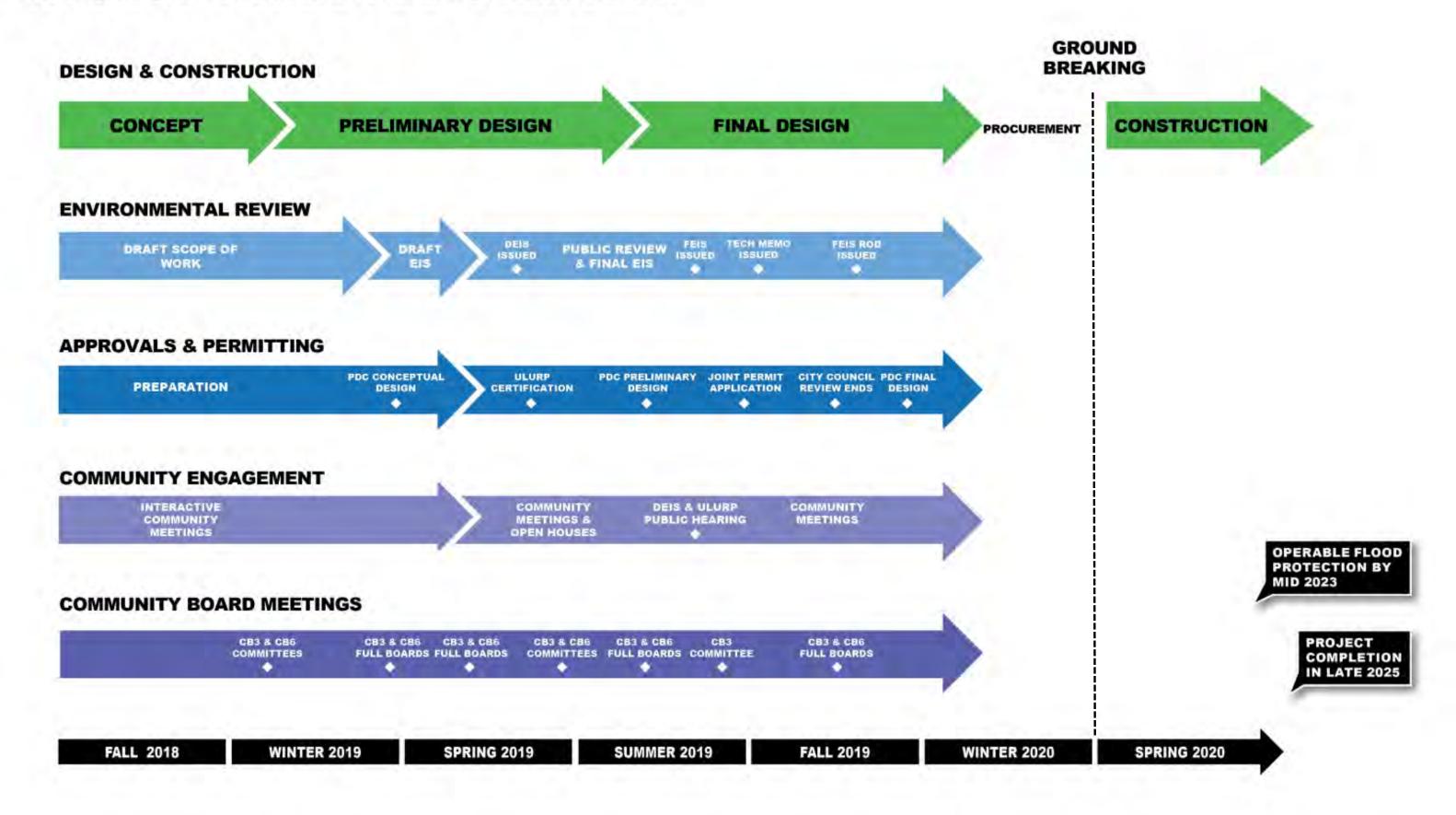
• **Summer 2023:** ~50% will re-open

Esplanade to be fully closed for only one year

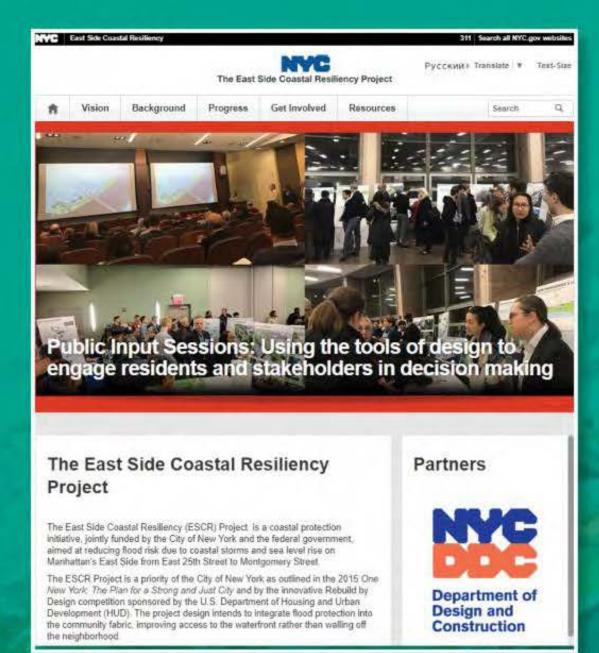
• Mid-2023: flood protection to be completed; End of 2025: project to be completed



PROJECT SCHEDULE OVERVIEW



Website



Visit Us! www.nyc.gov/escr

Twitter: @NYClimate