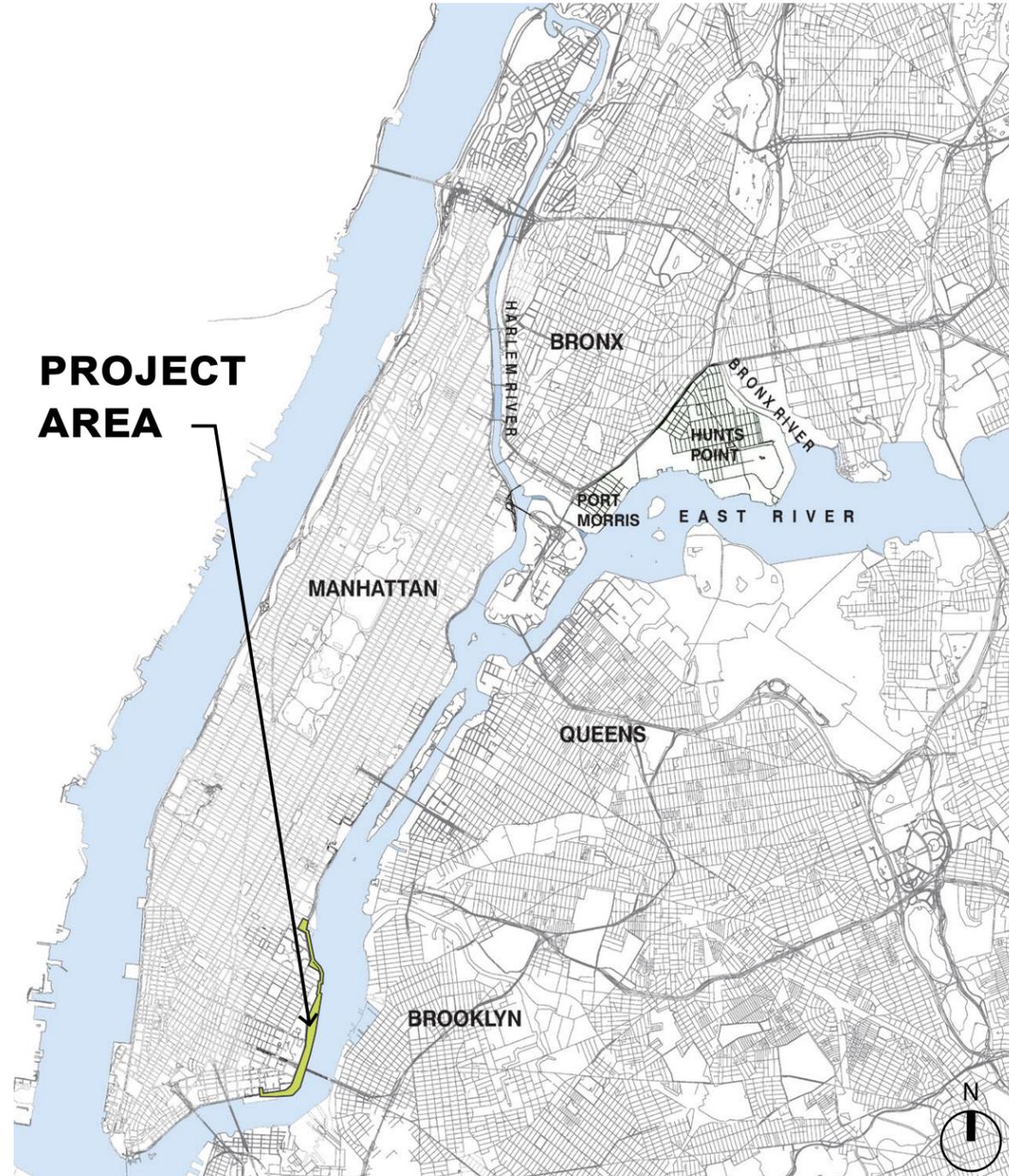


East Side Coastal Resiliency SANDRESM1

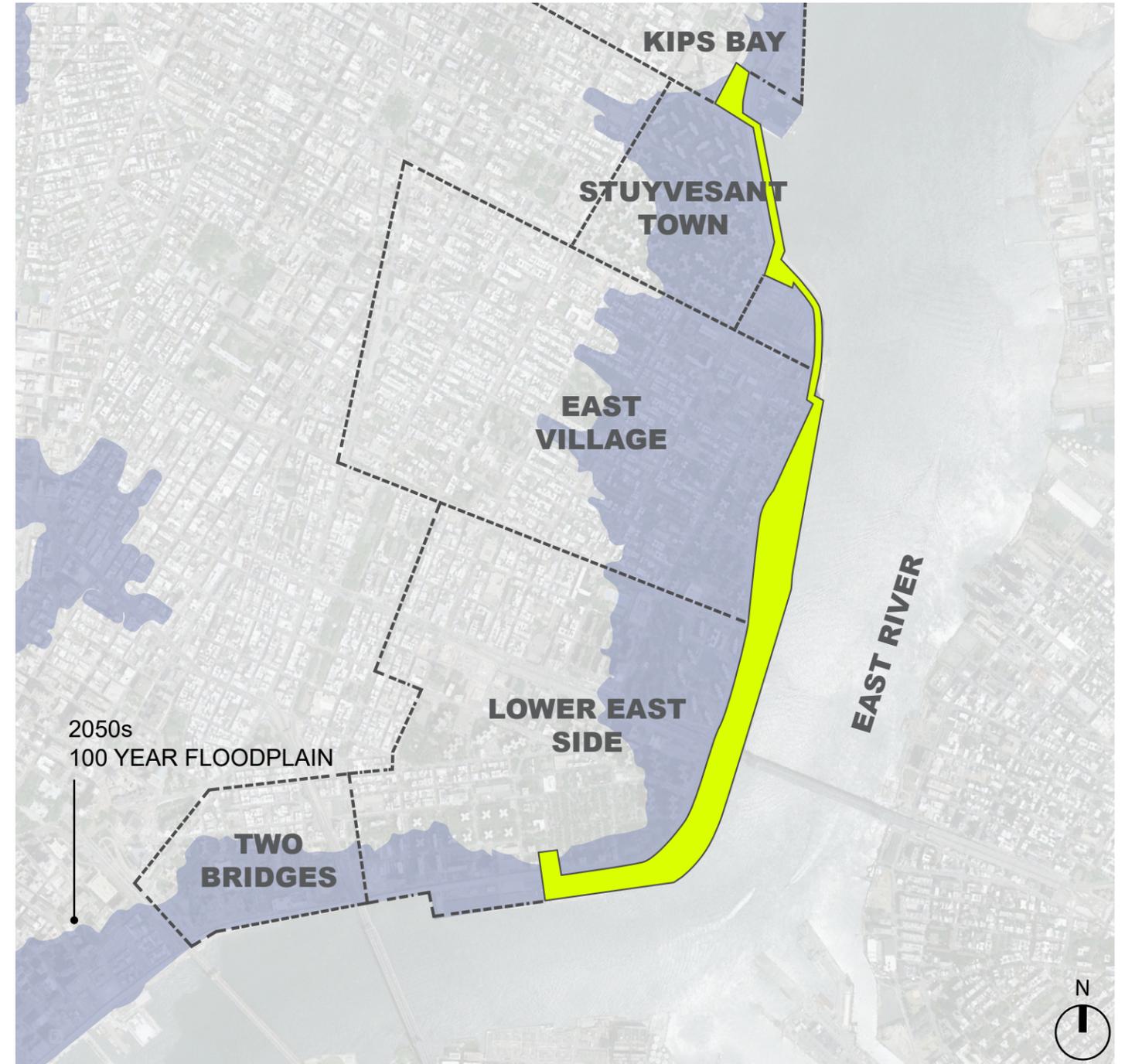
Preliminary Review Public Design Commission

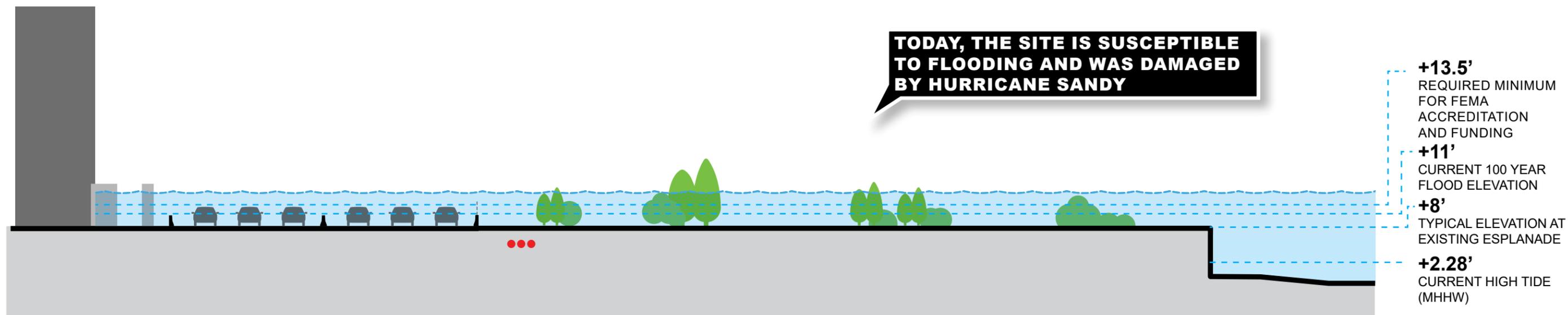
September 16, 2019

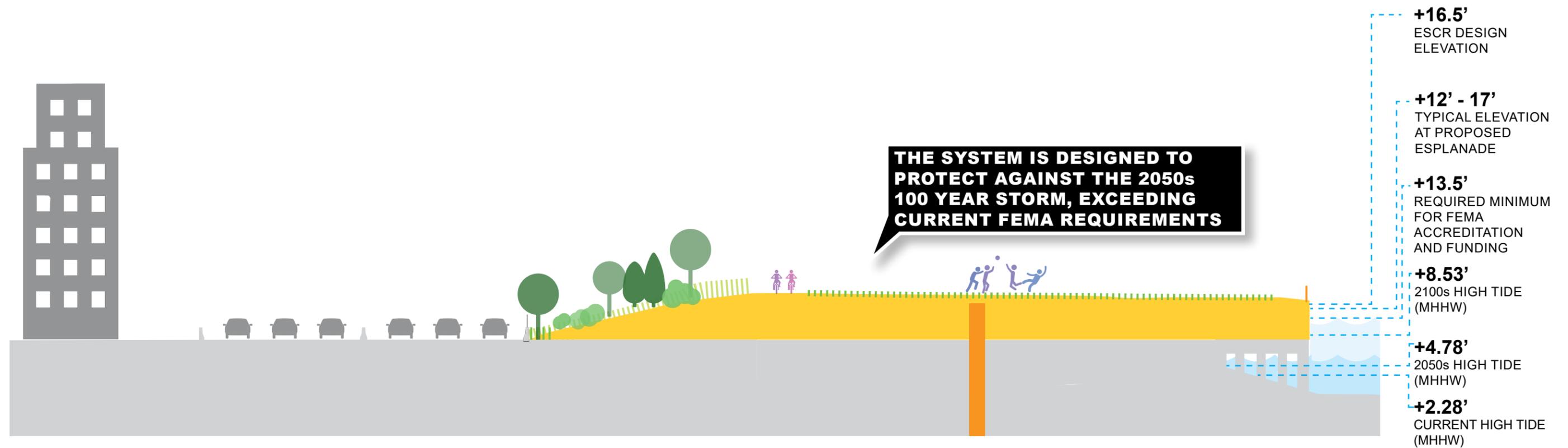
BOROUGH CONTEXT



NEIGHBORHOOD CONTEXT







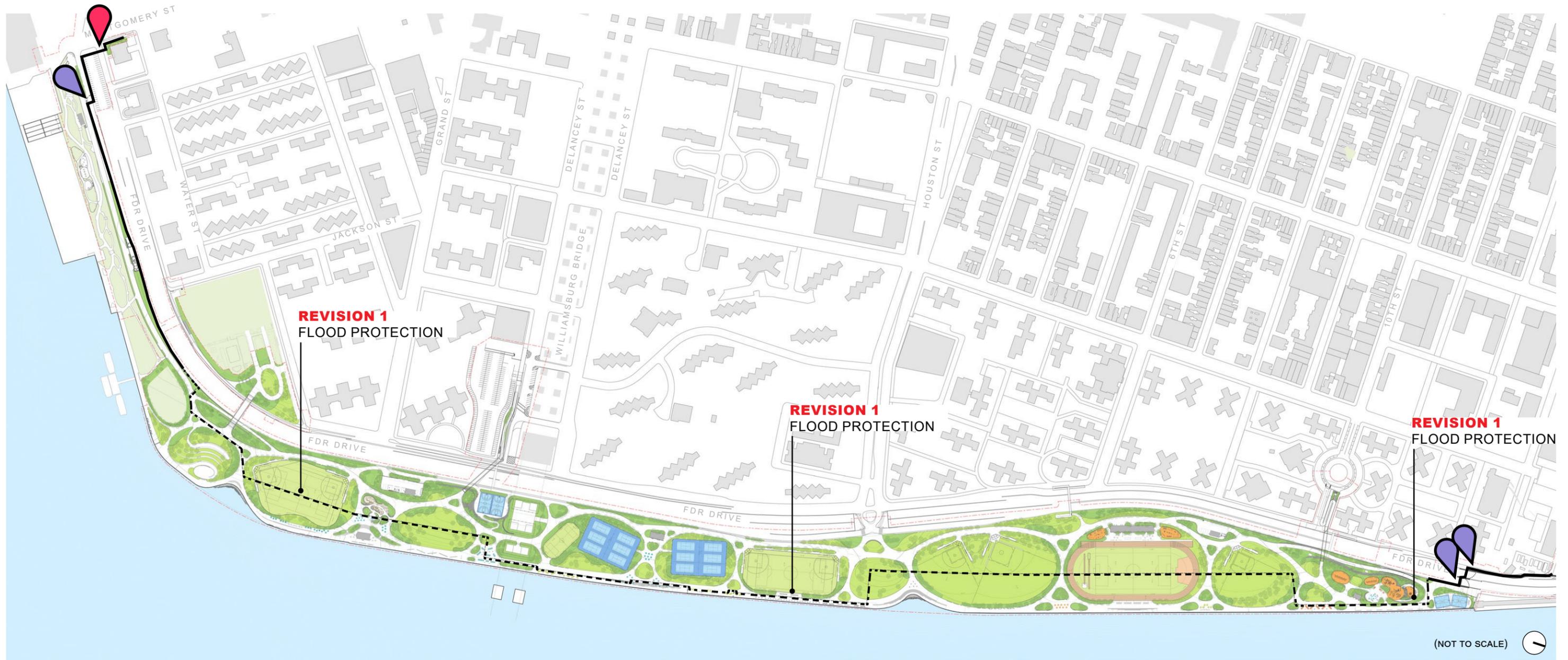
NOTE:

- DESIGN CRITERIA USES THE 90TH PERCENTILE SEA LEVEL RISE PROJECTIONS.
- IF 90TH PERCENTILE SEA LEVEL RISE OCCURS BY 2050, SOME SPLASH AND WASH IS EXPECTED ON THE ESPLANADE DURING THE 100-YEAR STORM, WITH MINIMAL IMPACT.



NOTE:

- IF 90TH PERCENTILE SEA LEVEL RISE OCCURS BY 2100, WAVES WILL WASH OVER THE DECK WITH A SMALLER STORM SUCH AS A 50-YEAR EVENT. THE SYSTEM IS DESIGNED TO BE ADAPTABLE FOR THESE CONDITIONS IF NEEDED.
- GATE COLUMNS/FOUNDATIONS AND FLOODWALLS ARE DESIGNED TO BE ABLE TO TAKE THE NEW LOAD ASSOCIATED WITH A FUTURE ADAPTABILITY TOP OF WALL ELEVATION OF 18.5 FT.



-  **SWING GATE**
-  **ROLLER GATE**
-  **FLOODWALL (ABOVE GRADE)**
-  **FLOODWALL (BELOW GRADE)**



(NOT TO SCALE) 

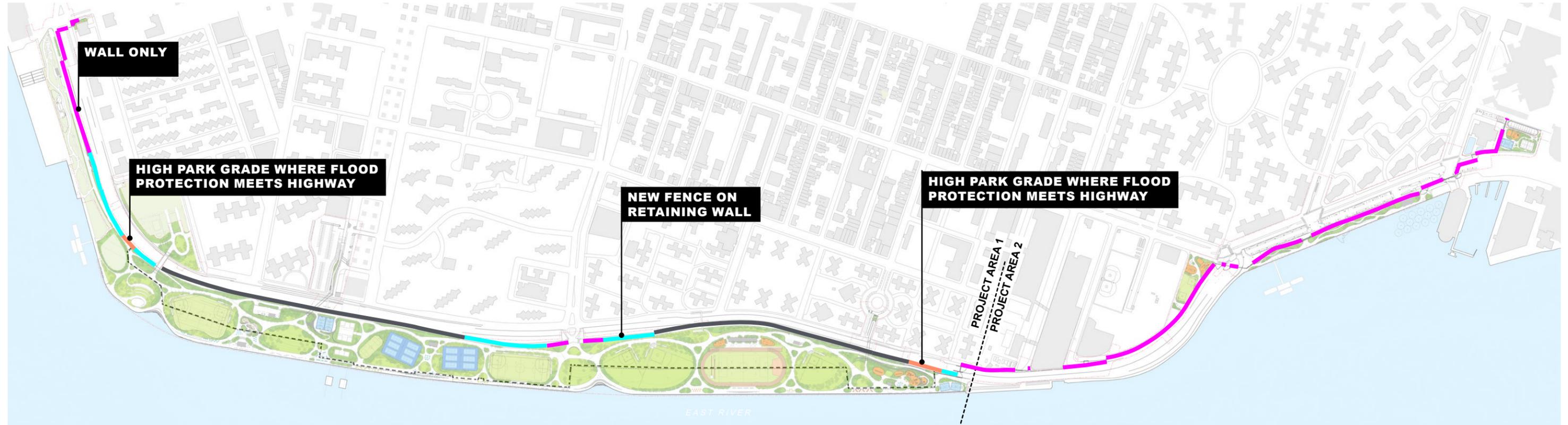
-  **SWING GATE**
-  **ROLLER GATE**
-  **FLOODWALL (ABOVE GRADE)**
-  **FLOODWALL (BELOW GRADE)**

PROJECT AREA 1

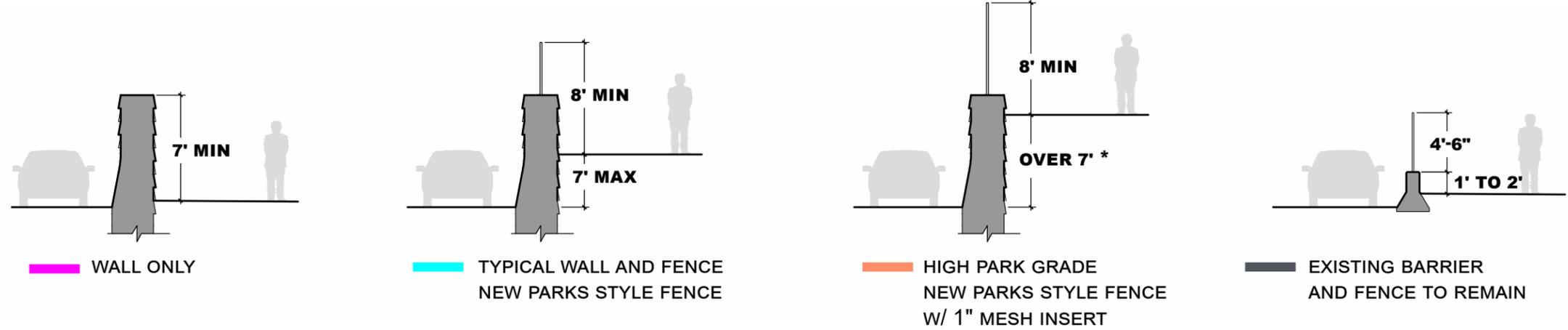
	WALL ONLY	1,030 LN FT	(15%)
	TYPICAL WALL + FENCE	1,810 LN FT	(26%)
	HIGH PARK GRADE	300 LN FT	(4%)
	EXISTING TO REMAIN	3,840 LN FT	(55%)

PROJECT AREA 2

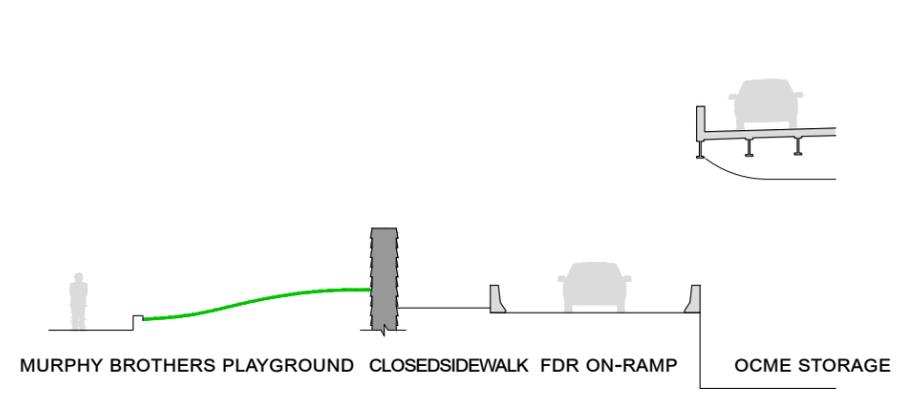
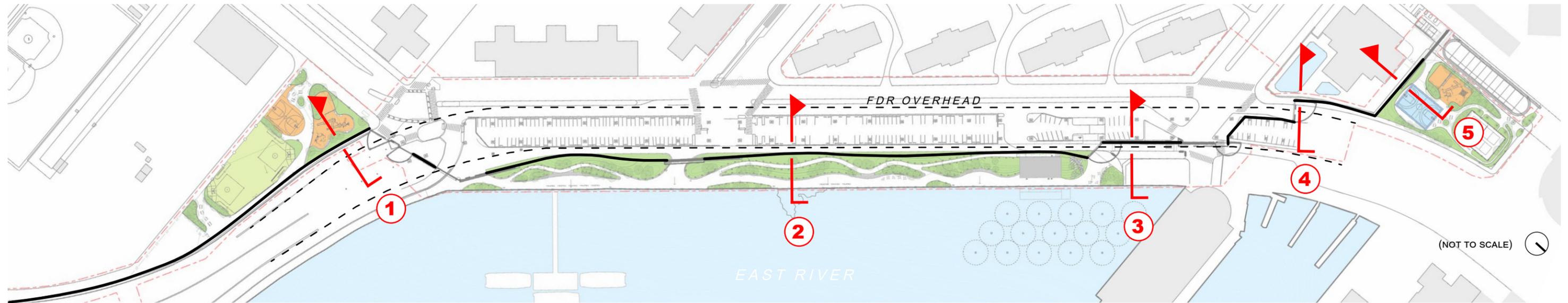
	WALL ONLY	(100%)
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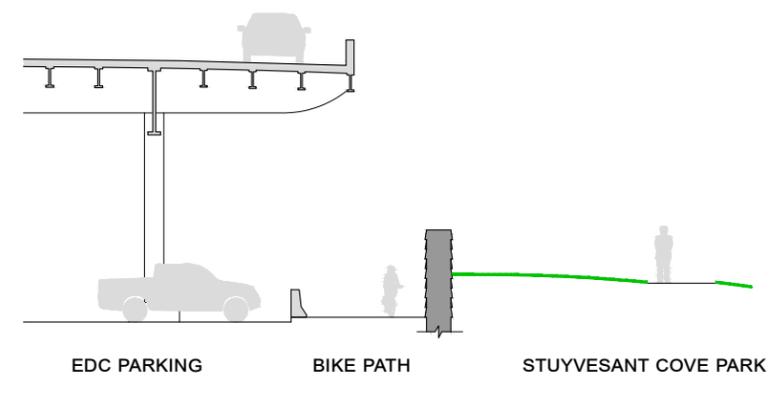
(NOT TO SCALE) 



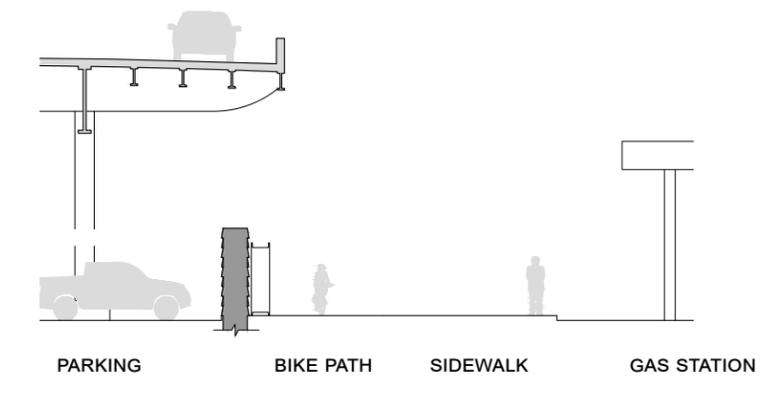
* BRIDGE CONDITION EXTENTS SUBJECT TO DOT REVIEW



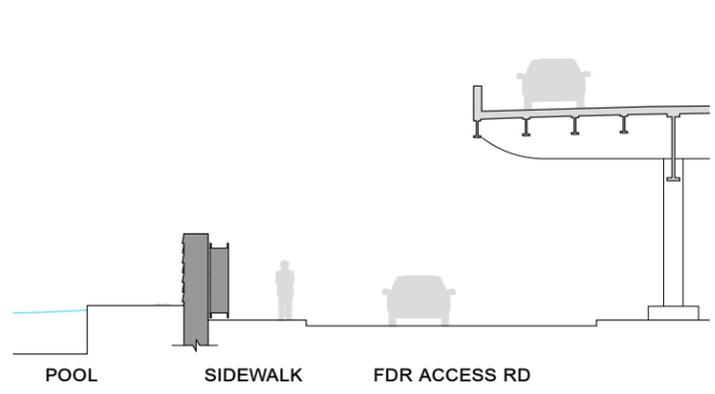
1 MURPHY BROTHERS PLAYGROUND



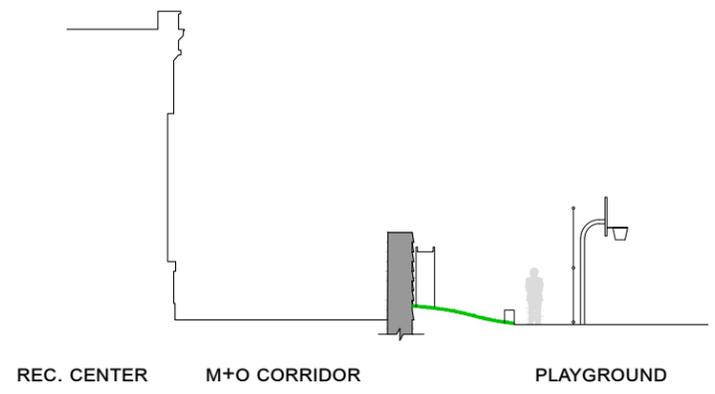
2 STUYVESANT COVE PARK



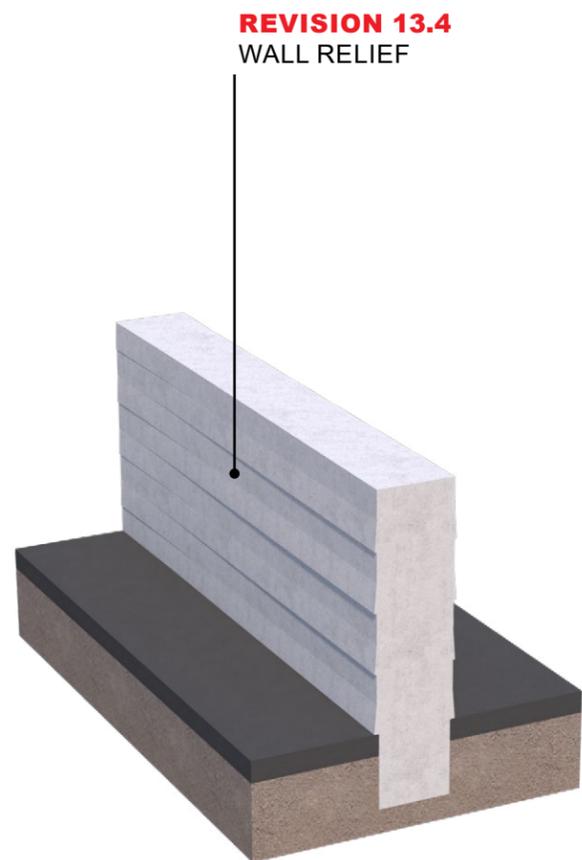
3 BP GAS STATION



4 ASSER LEVY POOL



5 ASSER LEVY PLAYGROUND



TYPICAL FLOODWALL



INTEGRATED FLOOD/RETAINING WALL AND TRAFFIC BARRIER



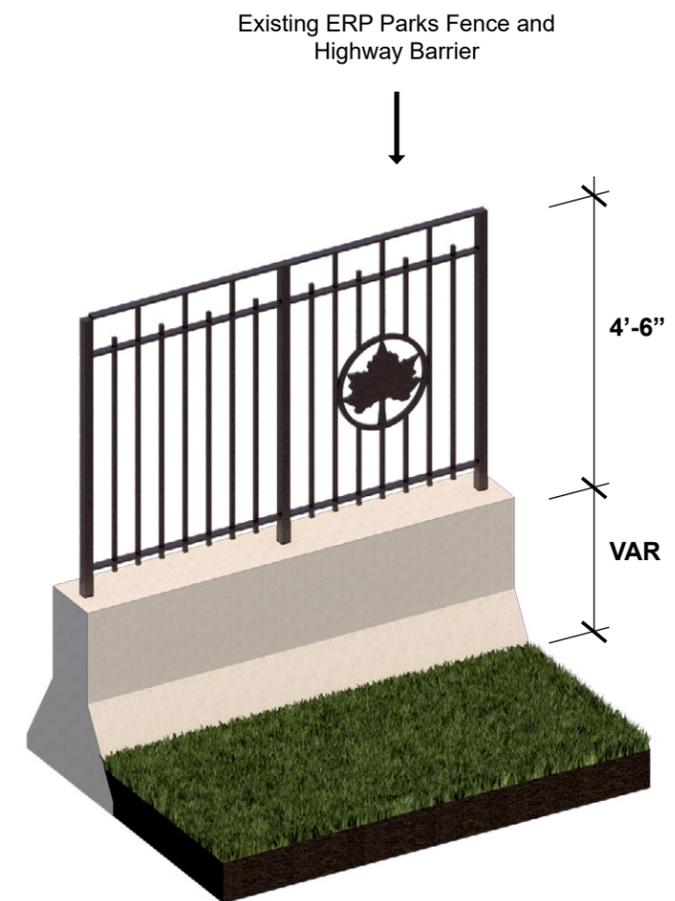
SEPARATED RETAINING WALL AND TRAFFIC BARRIER



EXISTING TRAFFIC BARRIER AND FENCE TO REMAIN



NEW WALL AND FENCE



EXISTING TO REMAIN

REVISION 13.1
WALL FENCE

REVISION 13.5
STEPPED WALL AND FENCE

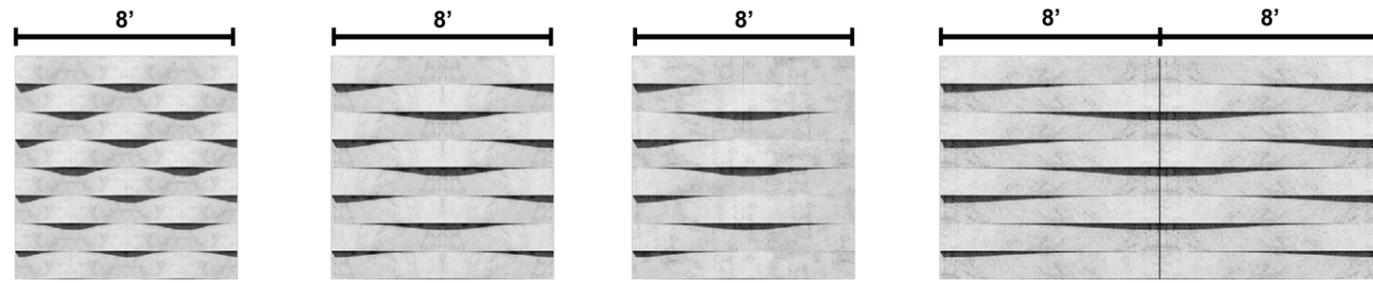


REVISION 13.1
HIGHWAY FENCE

REVISION 13.5
STEPPED WALL AND FENCE

REVISION 13.4
WALL RELIEF

HUMAN SCALE

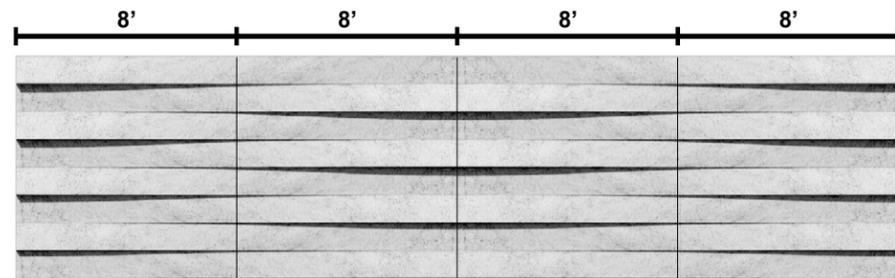


A
4' PATTERN

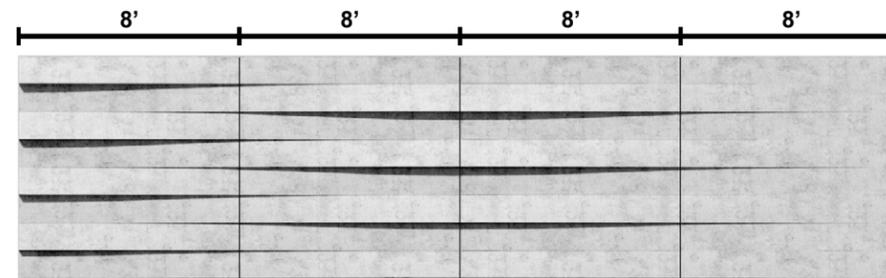
B
8' PATTERN

BT
8' TRANSITION

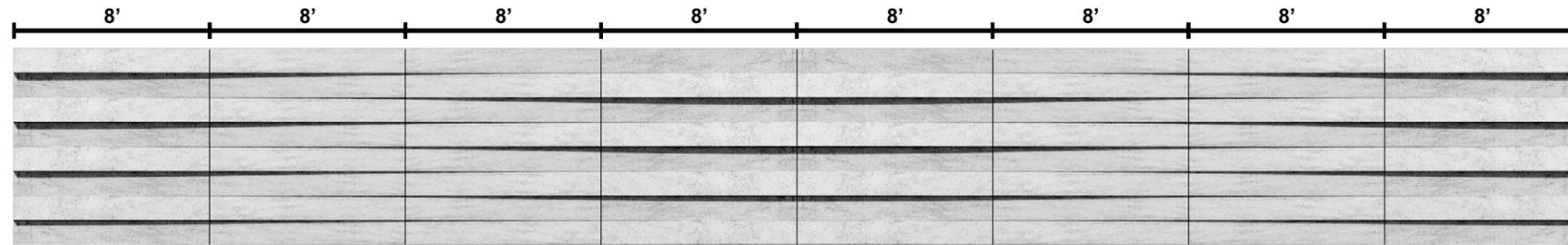
C
16' PATTERN



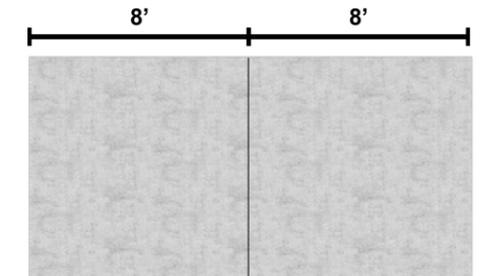
D
32' PATTERN



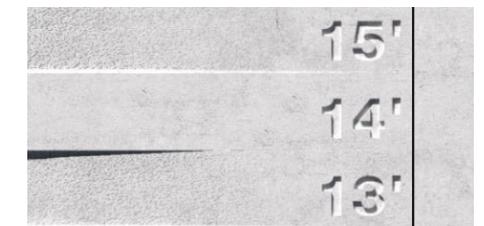
DT
32' TRANSITION



E
64' PATTERN



SMOOTH WALL



INTEGRATED ELEVATION MARKERS

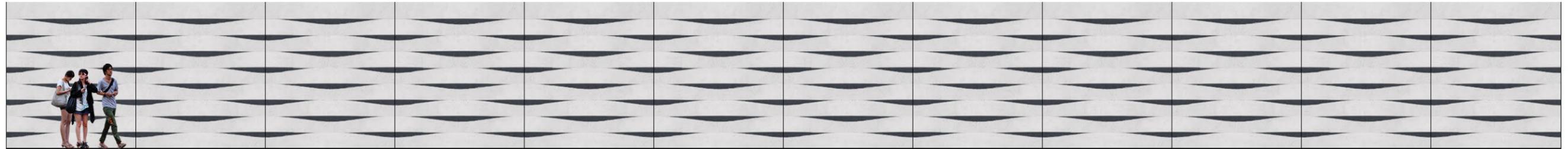


URBAN SCALE

**WALL RELIEF TOOLKIT
RESPONDS TO CONTEXT AND EXPERIENCE
(SPEED AND DISTANCE)**

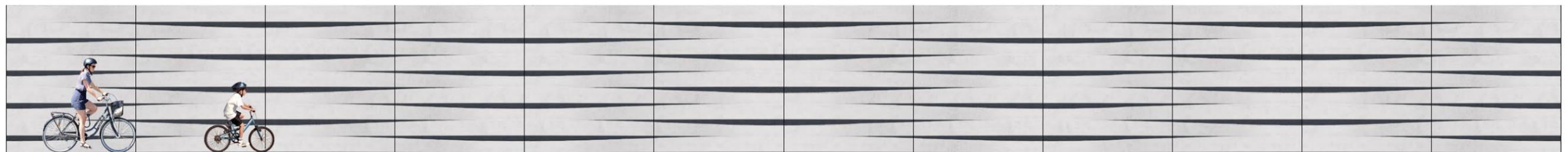
REVISION 13.4
WALL RELIEF

SHORT MODULES



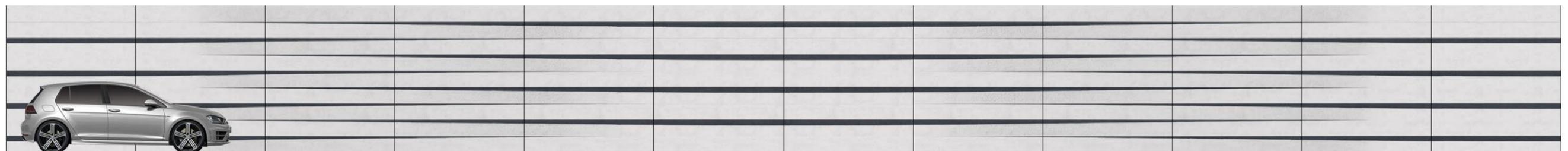
PEDESTRIAN PATH 3.1 MPH = 4.5 FT/S

MEDIUM MODULES



BIKING PATH 9.6 MPH = 14 FT/S

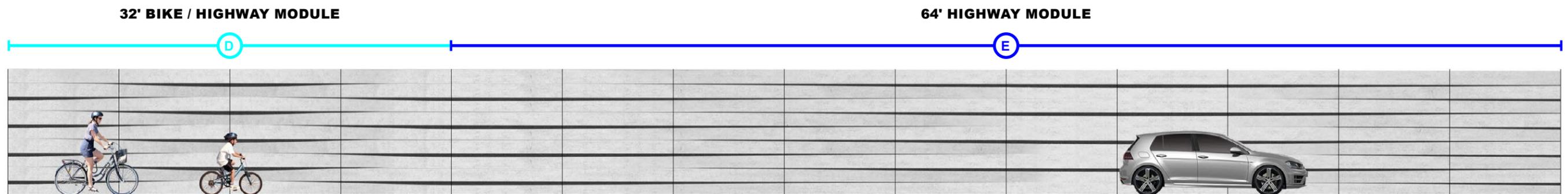
LONG MODULES



FDR DRIVE 40 MPH = 58.6 FT/S

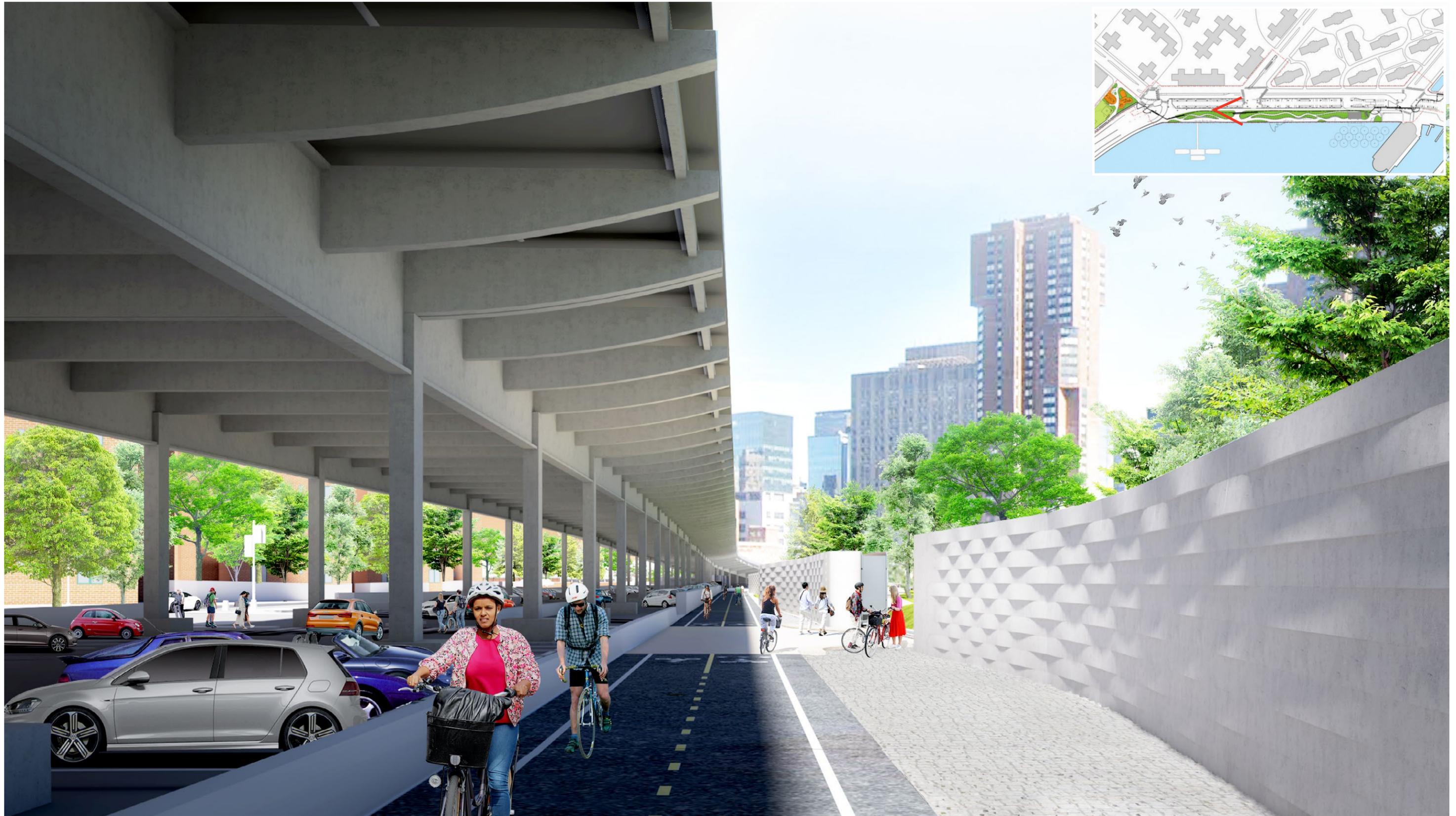


PEDESTRIAN / BIKE TRANSITION



BIKE / HIGHWAY TRANSITION

REVISION 13.4
WALL RELIEF



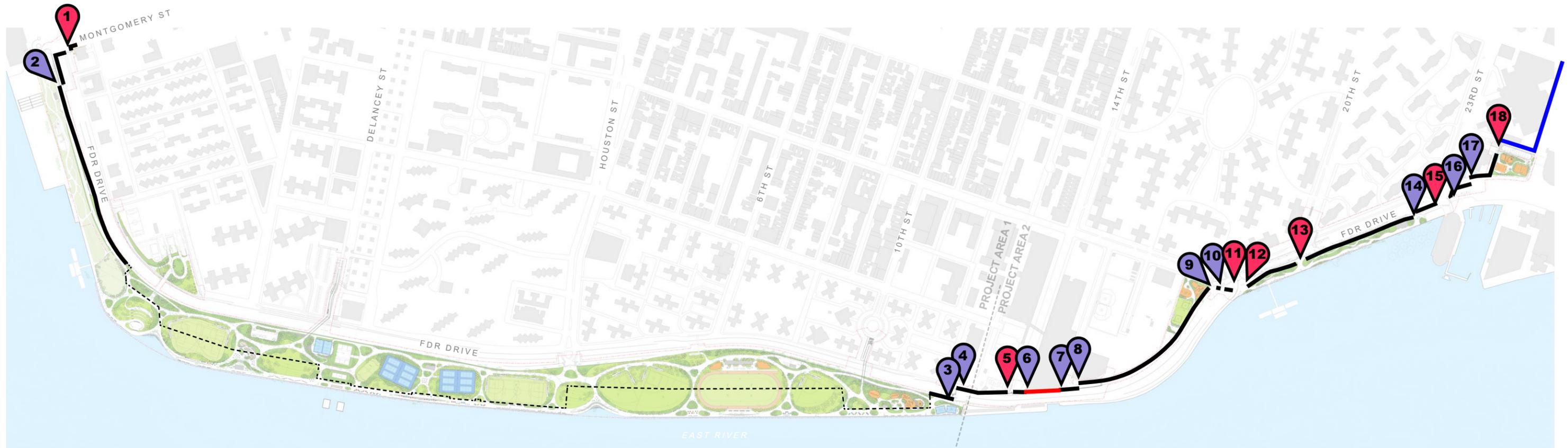
AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

**Stuy. Cove Bike Lane
Preliminary Review 16**





(NOT TO SCALE)

- SWING GATE (11)
- ROLLER GATE (7)

- FLOODWALL (ABOVE GRADE)
- FLOODWALL (BELOW GRADE)
- CON EDISON PERIMETER PROTECTION (CLOSURE NOT SHOWN)
- VA MEDICAL CENTER PERIMETER PROTECTION (CLOSURE NOT SHOWN)



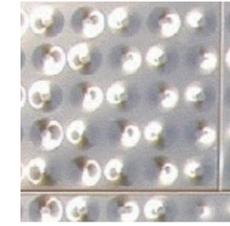
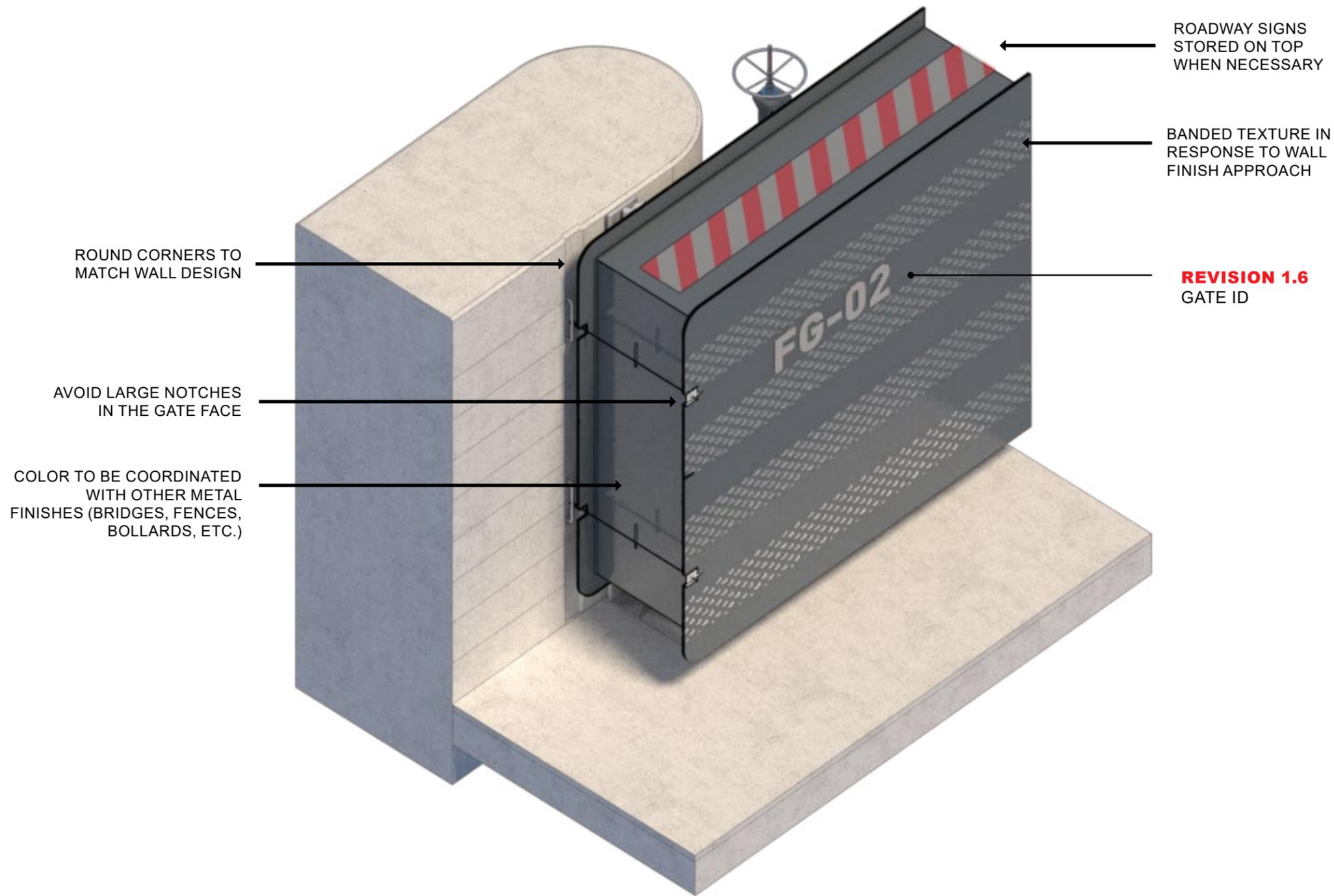
EXAMPLE SWING GATE (PIER 42)



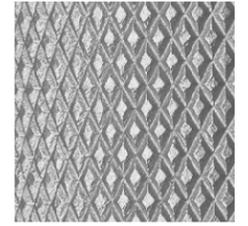
EXAMPLE ROLLER GATE (EAST 20TH STREET)







EMBOSS



KNURLED



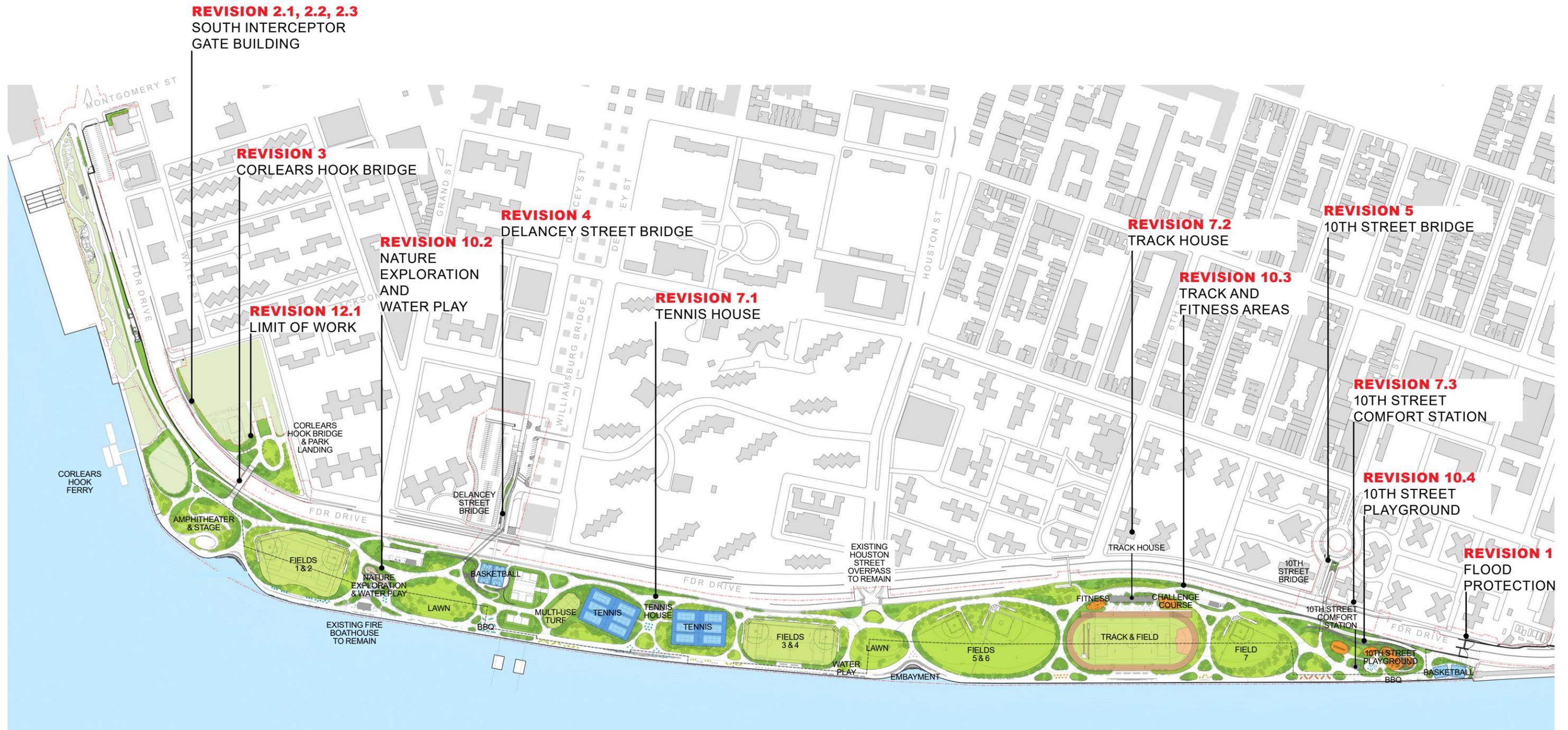
TEXT + LABELING
MUNSEL GREY PAINT (TYP)



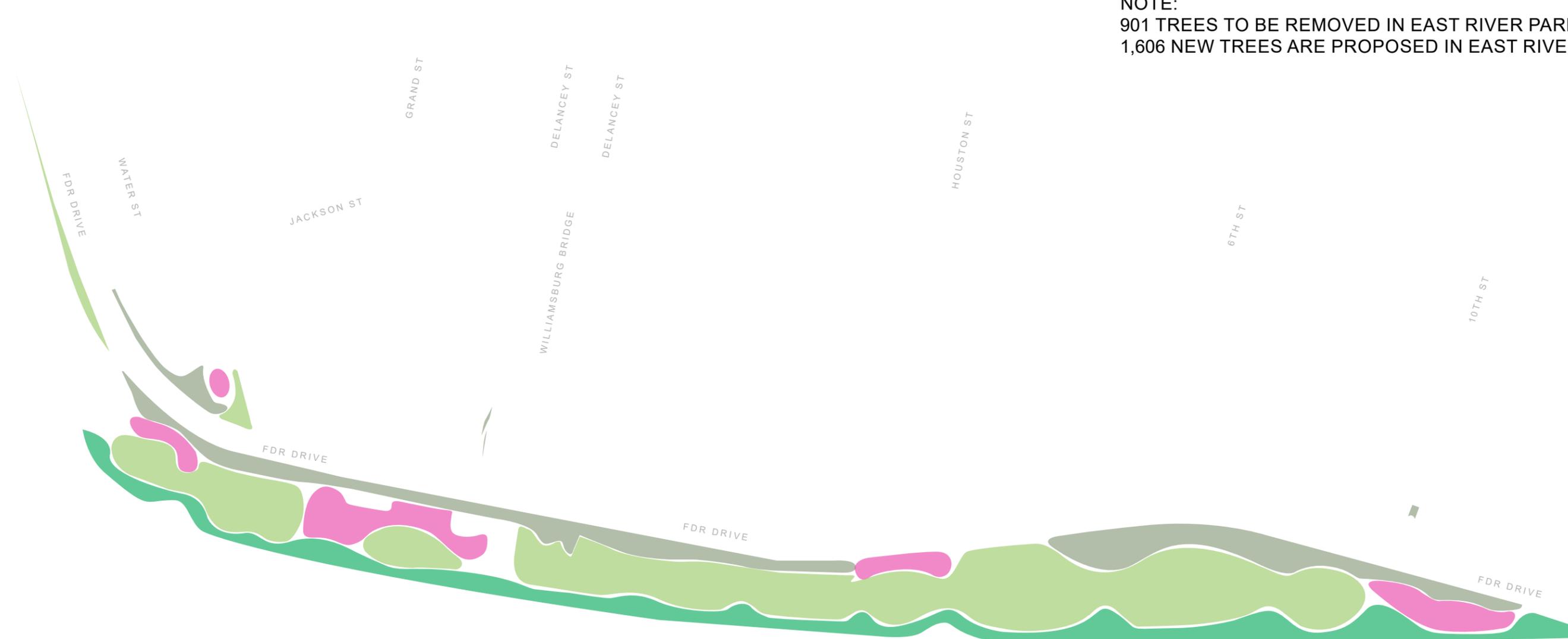
TEXT + LABELING
GW GREY PAINT (ASSER LEVY)

REVISION 1.6
GATE COLOR

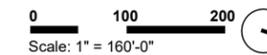




MONTGOMERY ST



NOTE:
 901 TREES TO BE REMOVED IN EAST RIVER PARK;
 1,606 NEW TREES ARE PROPOSED IN EAST RIVER PARK;

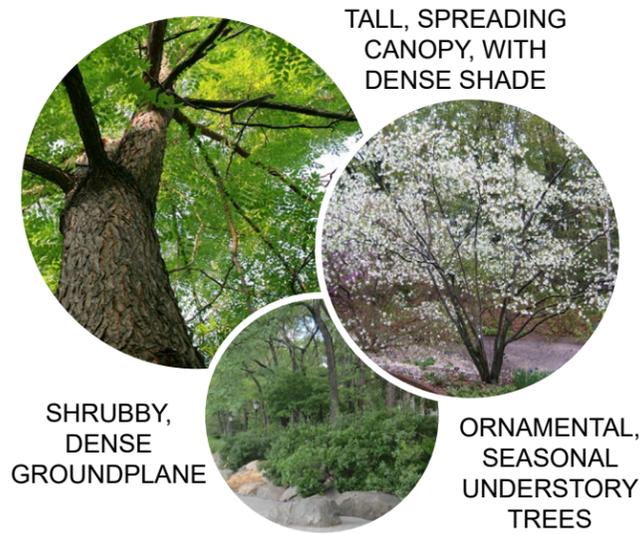


**WOODLAND
EDGES**

**PASTORAL
OPENINGS**

**LAYERED
GROVES**

**MARITIME
EDGES**



TALL, SPREADING CANOPY, WITH DENSE SHADE

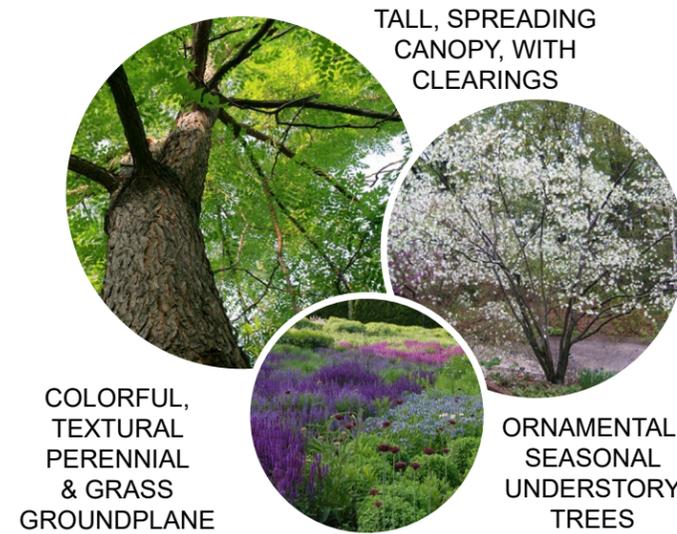
SHRUBBY, DENSE GROUNDPLANE

ORNAMENTAL, SEASONAL UNDERSTORY TREES



TALL, SPREADING CANOPY, WITH DAPPLED SHADE

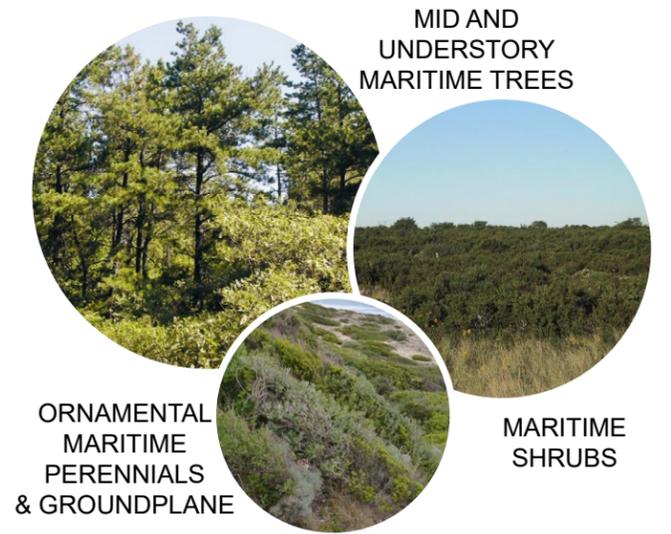
CLEAR UNDERSTORY WITH OPEN LAWN



TALL, SPREADING CANOPY, WITH CLEARINGS

COLORFUL, TEXTURAL PERENNIAL & GRASS GROUNDPLANE

ORNAMENTAL, SEASONAL UNDERSTORY TREES



MID AND UNDERSTORY MARITIME TREES

ORNAMENTAL MARITIME PERENNIALS & GROUNDPLANE

MARITIME SHRUBS

HIGH, FULL CANOPY CREATES CONNECTED, DAPPLED SHADE



WOODLAND EDGES

- 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



PASTORAL OPENINGS

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



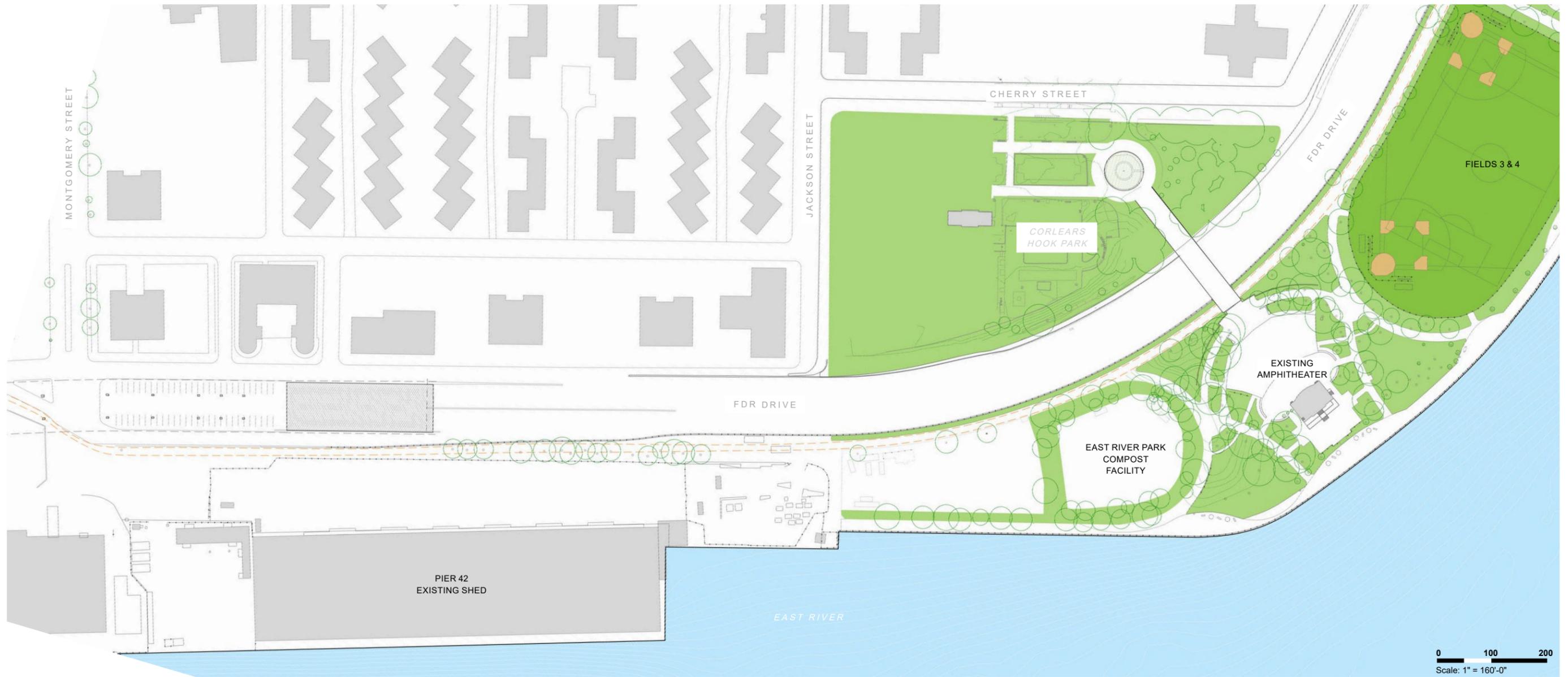
LAYERED GROVES

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



MARITIME EDGES

- 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

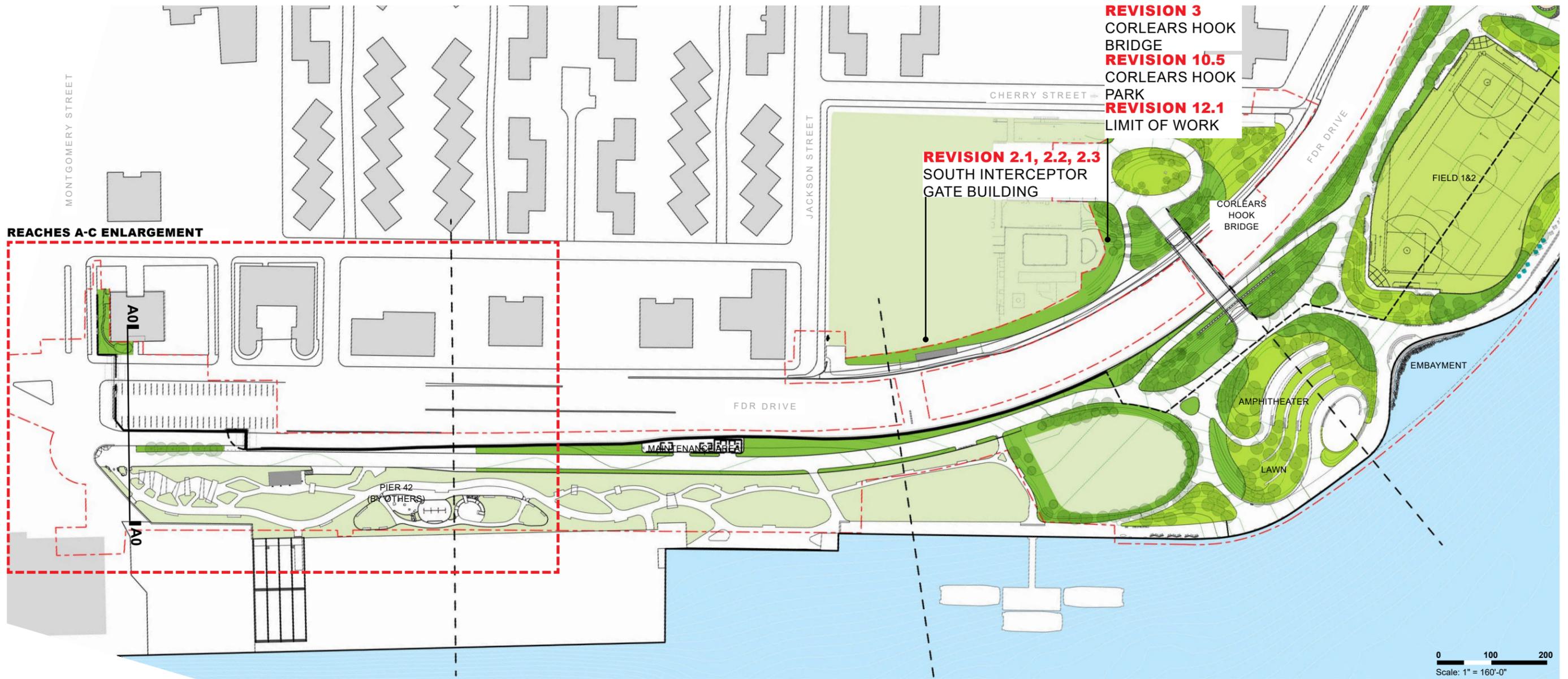


LEGEND

-  FENCE
-  SYNTHETIC TURF
-  GRASS / PLANTED AREA
-  EXISTING TREE

PA1 KEY PLAN





REVISION 3
CORLEARS HOOK
BRIDGE
REVISION 10.5
CORLEARS HOOK
PARK
REVISION 12.1
LIMIT OF WORK

REVISION 2.1, 2.2, 2.3
SOUTH INTERCEPTOR
GATE BUILDING

REACHES A-C ENLARGEMENT

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

LEGEND

- - - ESCR LIMIT OF WORK
- FLOODWALL
- CONED TUNNEL / TROUGH
- FENCE
- REGULATORS
- FERRY ELECTRICAL EQUIPMENT
- SYNTHETIC TURF
- LAWN AREA
- PLANTED AREA
- EXISTING TREES
- PROPOSED TREES
- BW X.X' - BOTTOM OF WALL
- TW X.X' - TOP OF WALL

PA1 KEY PLAN









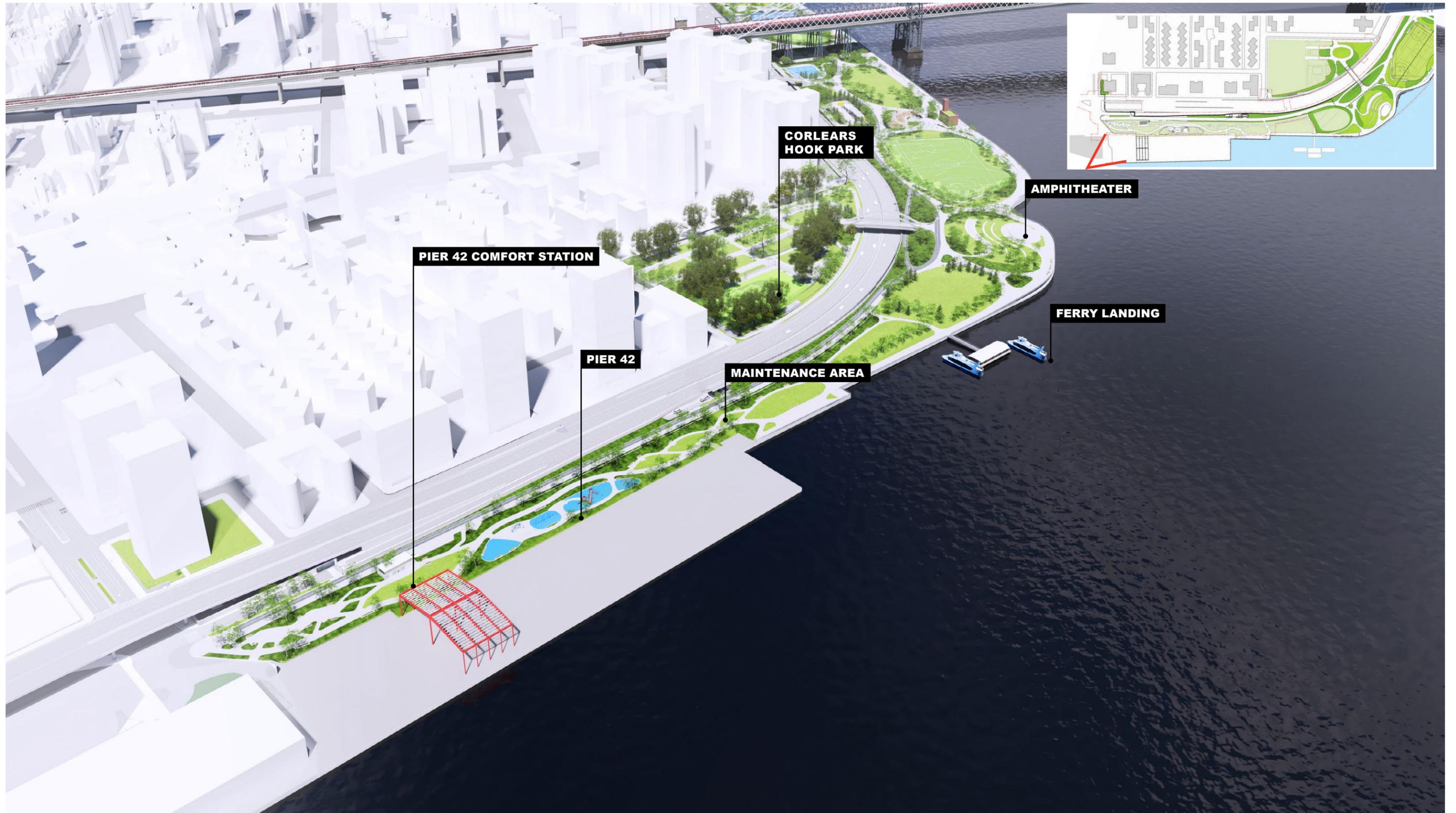
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE | NEW YORK CITY | NEW YORK CITY | NEW YORK | NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S
 INGELS | LANDSCAPE | ARCHITECTURE | DEPT. OF DESIGN AND | DEPT. OF PARKS AND | CITY DEPT. OF | OF ENVIRONMENTAL | OFFICE OF RESILIENCY
 GROUP | ARCHITECTS, P.C. | AND URBANISM | CONSTRUCTION | RECREATION | TRANSPORTATION | PROTECTION

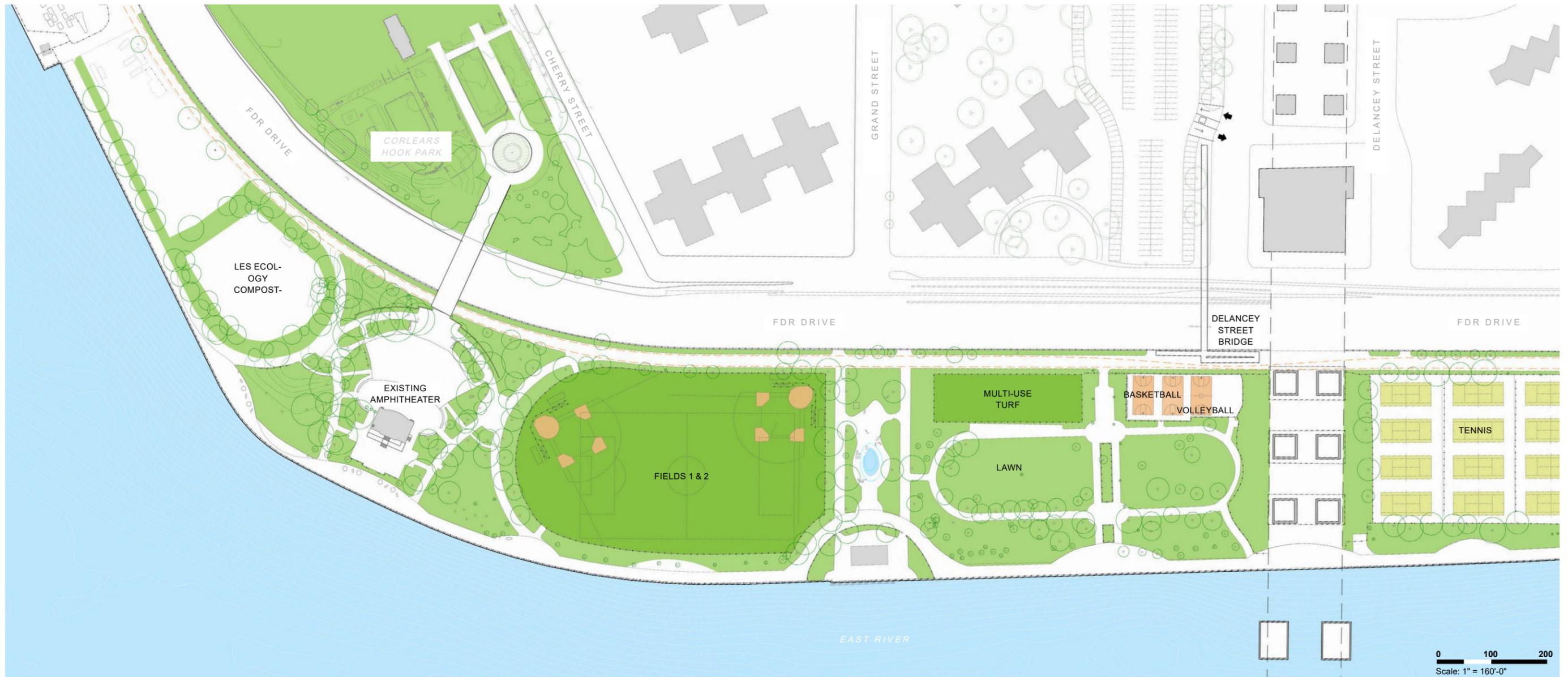
**PDC PRELIMINARY REVIEW
 EAST SIDE COASTAL
 RESILIENCY PROJECT**

SEPTEMBER 16, 2019

Montgomery Street Tie-Back Gate Open Preliminary Review







LEGEND

-  FENCE
-  SYNTHETIC TURF
-  GRASS / PLANTED AREA
-  EXISTING TREE

PA1 KEY PLAN





LEGEND

- - - ESCR LIMIT OF WORK
- FLOODWALL, ABOVE GRADE
- FLOODWALL, BELOW GRADE
- CONED SUBSURFACE LINES
- FENCE
- REGULATORS
- SYNTHETIC TURF
- LAWN AREA
- PLANTED AREA
- PAINTED ASPHALT COURTS
- EXISTING TREES
- PROPOSED TREES

PA1 KEY PLAN











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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

Corlears Hook Bridge On-Bridge View

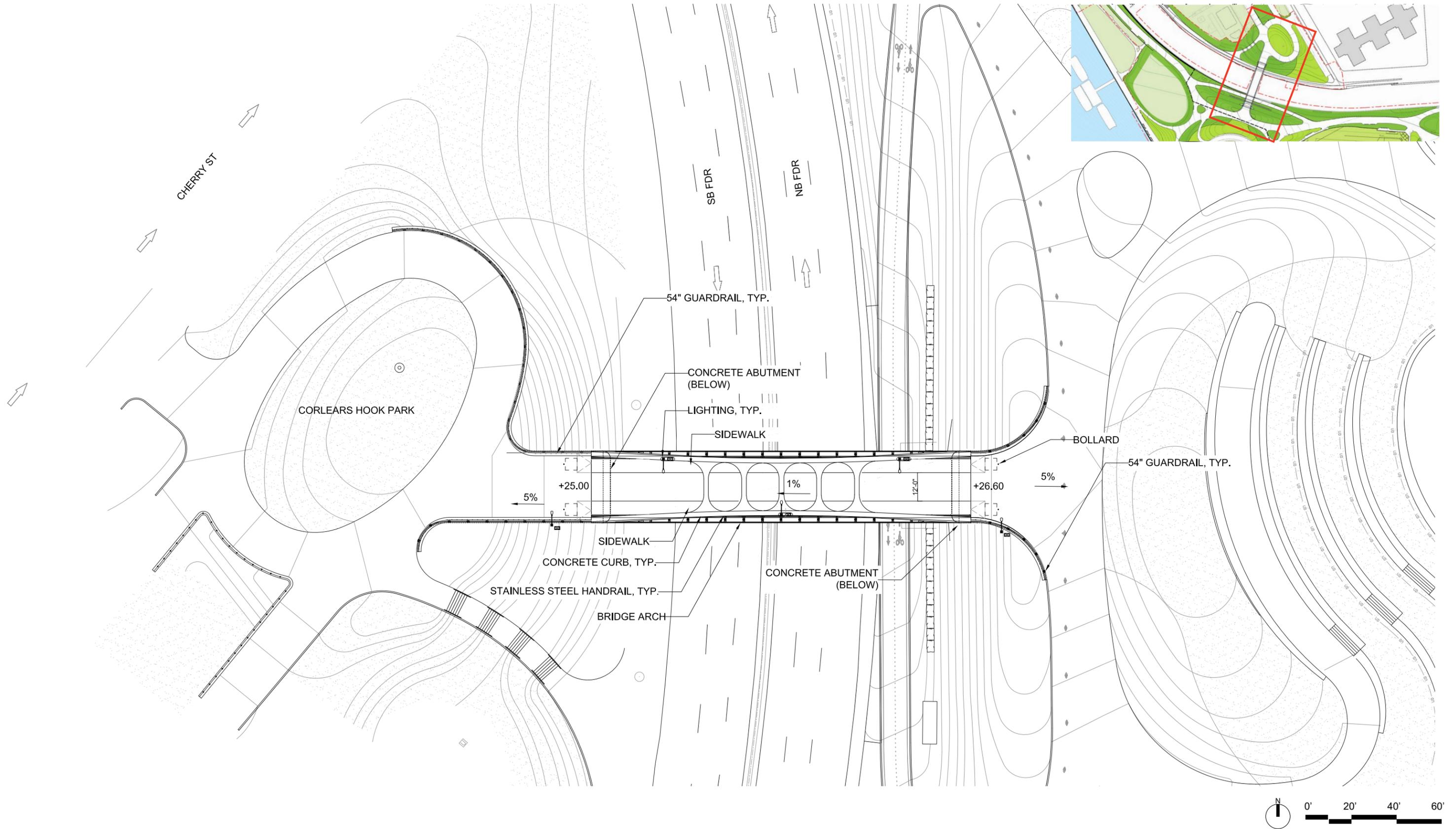


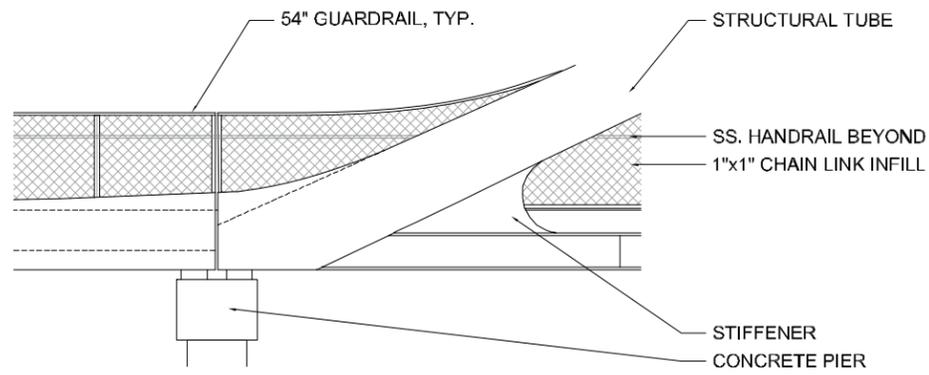
AKRF-KSE, JV | BJARKE | MATHEWS NIELSEN | ONE | NEW YORK CITY | NEW YORK CITY | NEW YORK | NEW YORK CITY DEPT. | NEW YORK CITY MAYOR'S
 INGELS | LANDSCAPE | ARCHITECTURE | DEPT. OF DESIGN AND | DEPT. OF PARKS AND | CITY DEPT. OF | OF ENVIRONMENTAL | OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
 EAST SIDE COASTAL
 RESILIENCY PROJECT**

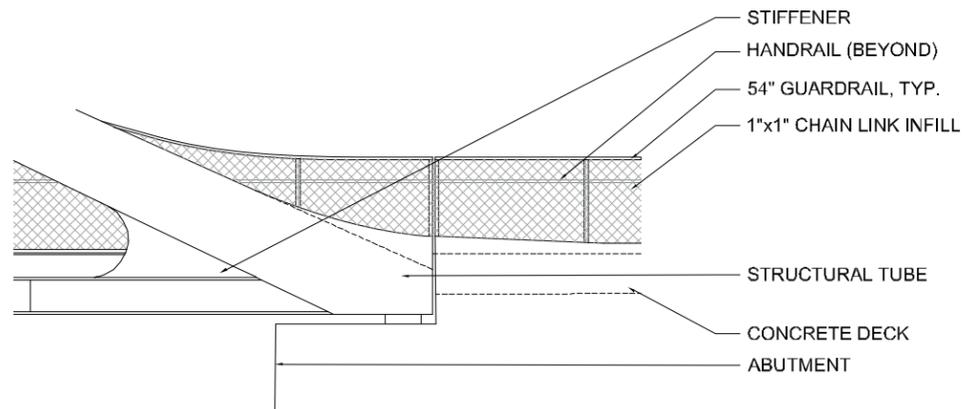
SEPTEMBER 16, 2019

Corlears Hook Bridge Preliminary Review

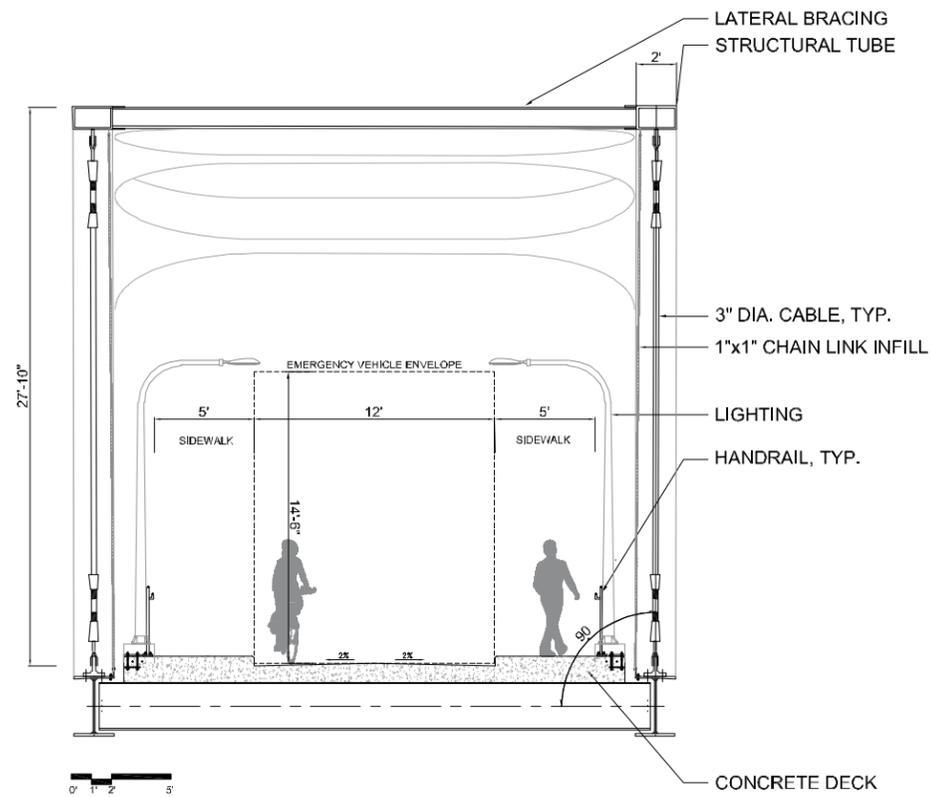




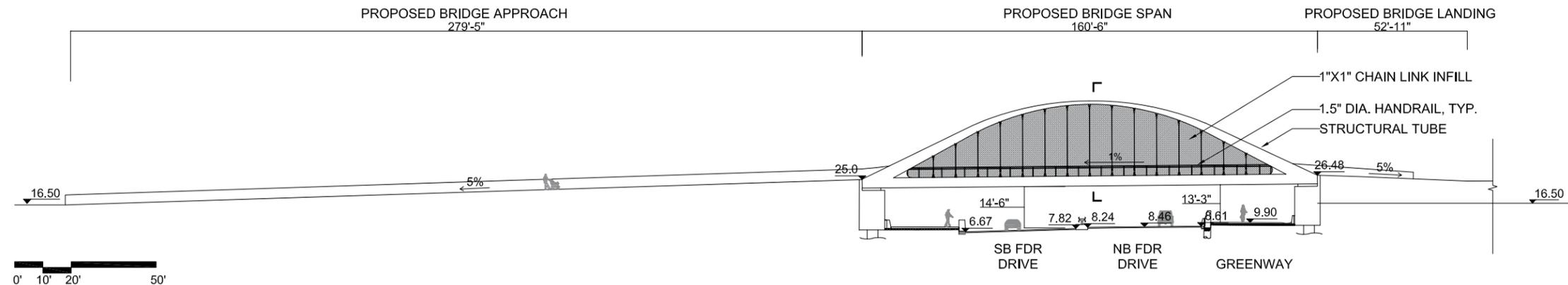
Transition Detail - Bridge to Concrete Pier



Transition Detail - Bridge to Abutment



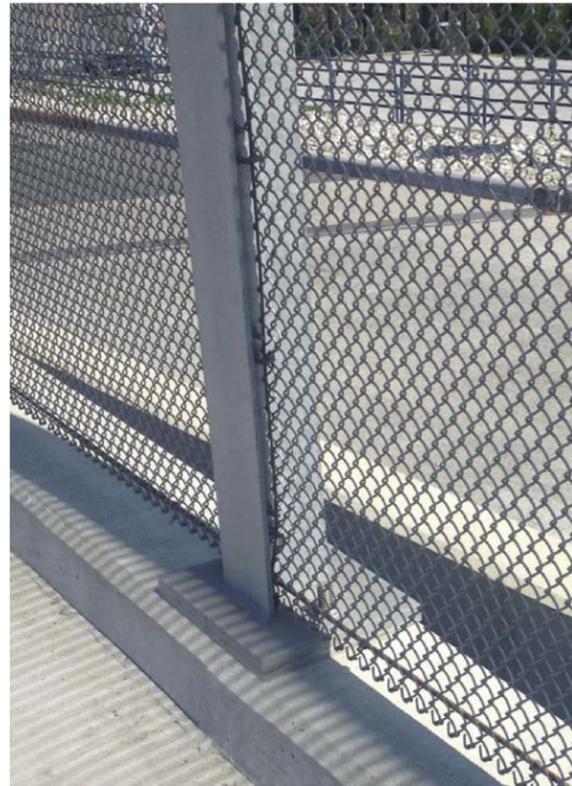
Section Through Bridge Arch



Bridge Elevation



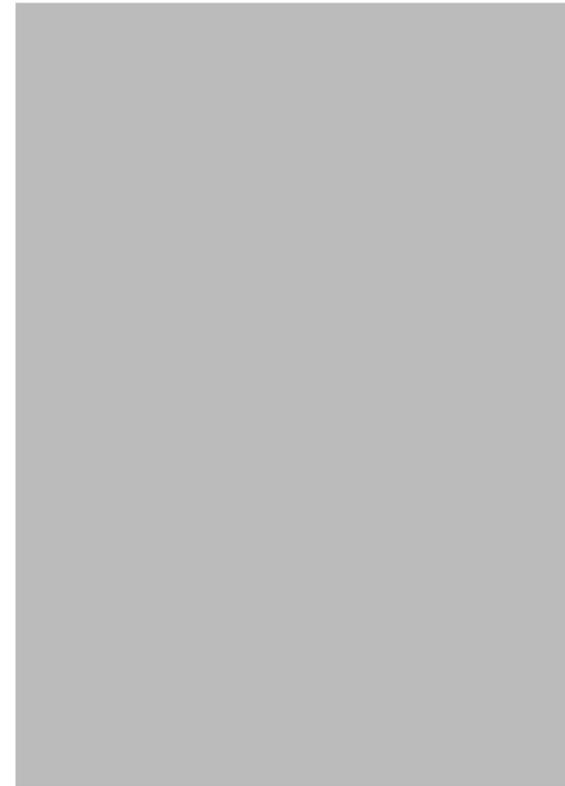
SS Tube Handrail
Bridge Fencing and
Guardrails



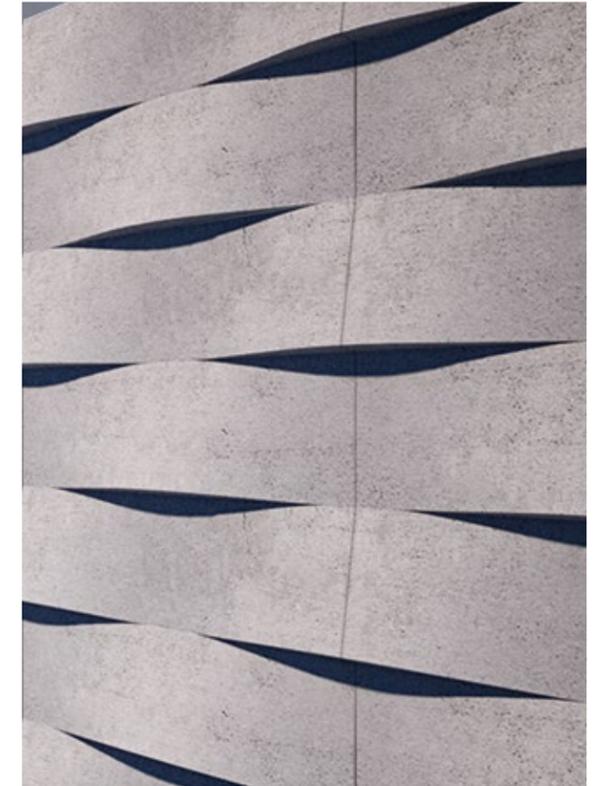
Guardrail Detail
Bridge Fencing



Concrete
Bridge Deck



Painted Steel
Color George Washington
Gray



Cast-In-Place Concrete
Ramp and Abutments





IMPACTS TO EXISTING TREES AND PROPOSED PLANTING IN CORLEARS HOOK PARK ARE BEING FURTHER STUDIED

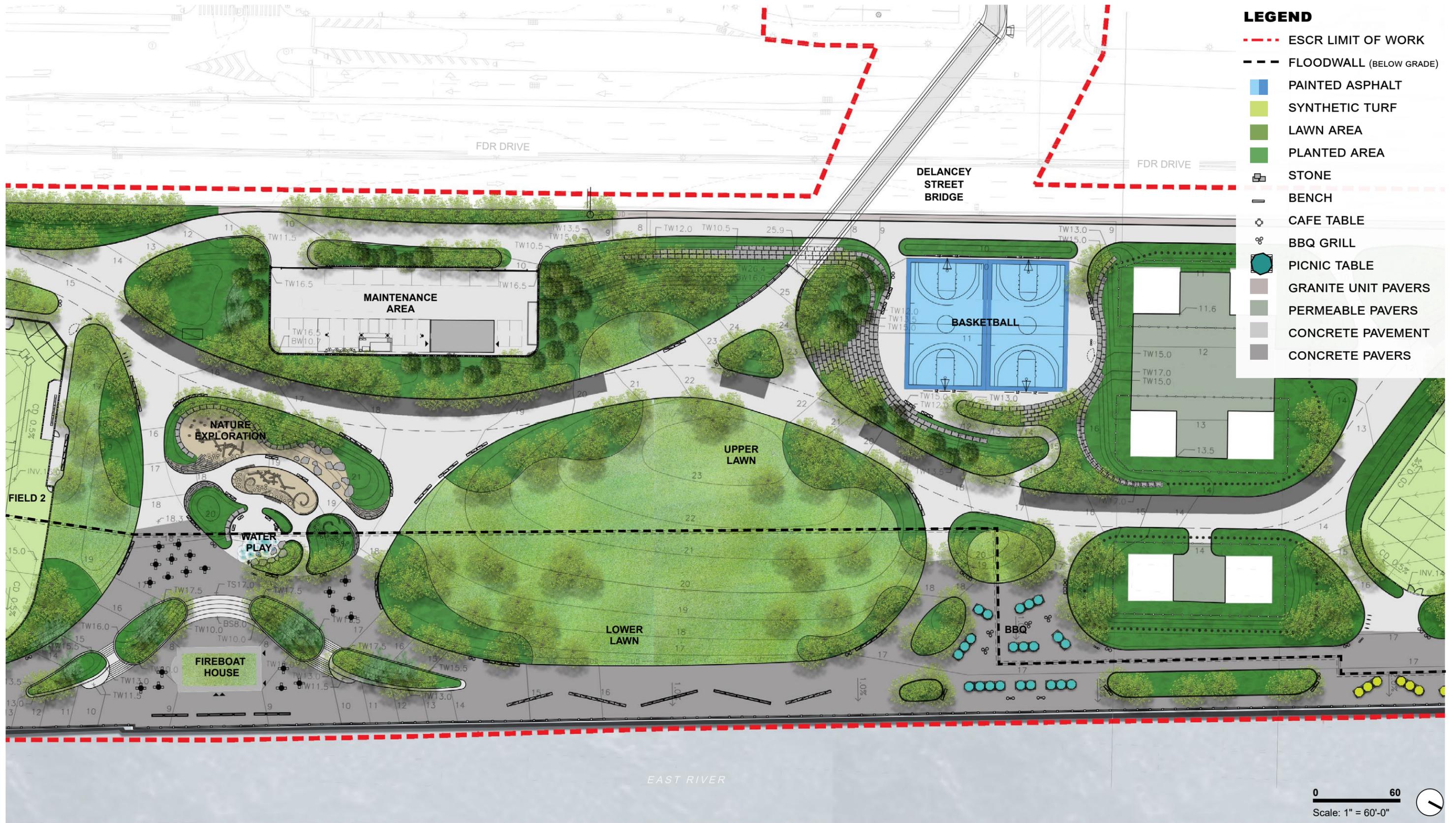
CORLEARS HOOK PARK

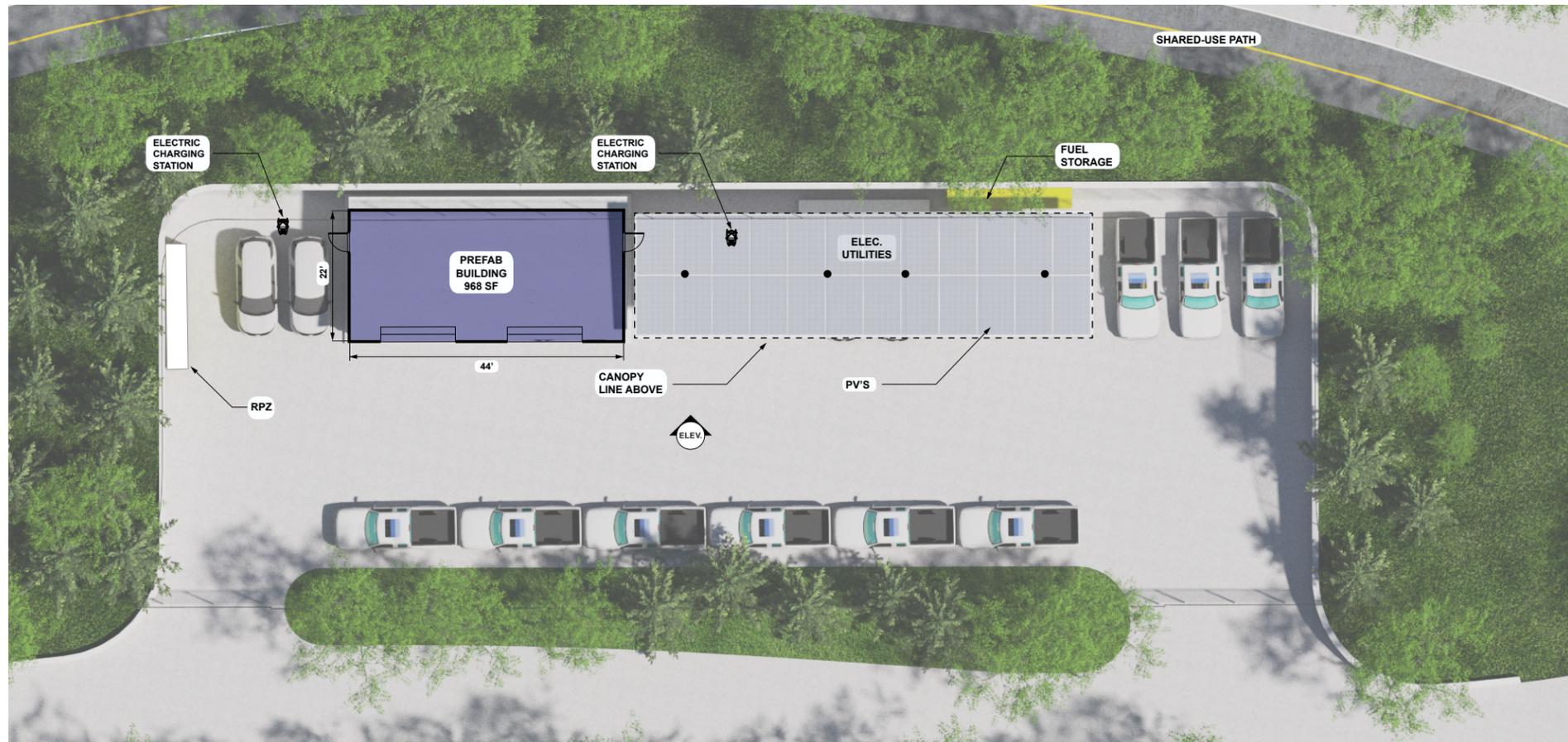
RE-CONSTRUCTED CORLEARS HOOK BRIDGE

RECONSTRUCTED AMPHITHEATER

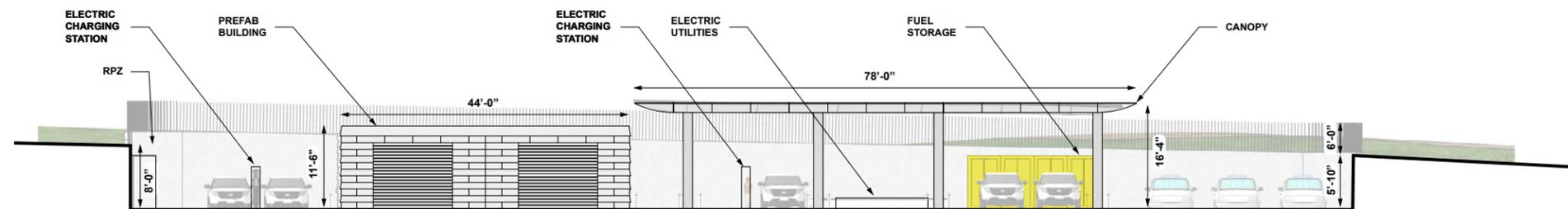


AMPHITHEATER DESIGN SUPPORTS DAY-TO-DAY USE, COMMUNITY PROGRAMMING & PASSIVE RECREATION





Delancey Maintenance Area Plan



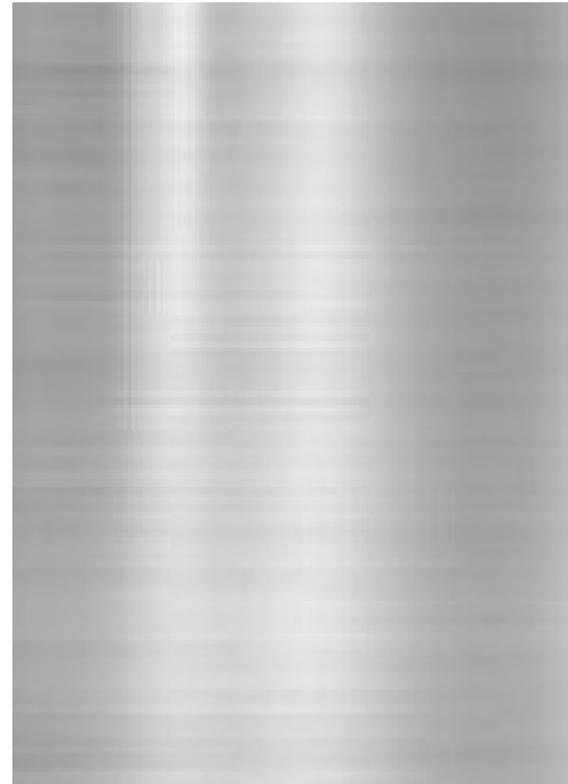
Delancey Maintenance Area Elevation



Custom Painted Steel Fence
M&O Fencing
Color TBD



Precast Concrete Building
M&O Area Buildings



Stainless Steel Canopy
M&O Area Canopy



Photovoltaic Cells
M&O Area Canopy



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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

Delancey Bridge Preliminary Review 50



 CITY-SIDE BIKE CONNECTION
 MANHATTAN GREENWAY

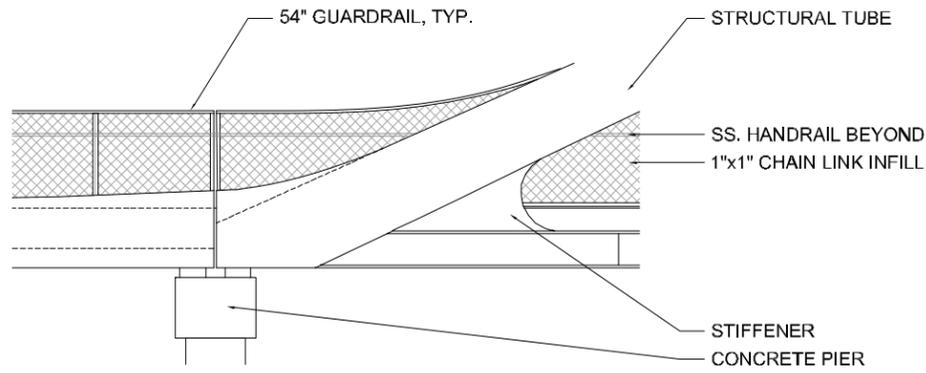


AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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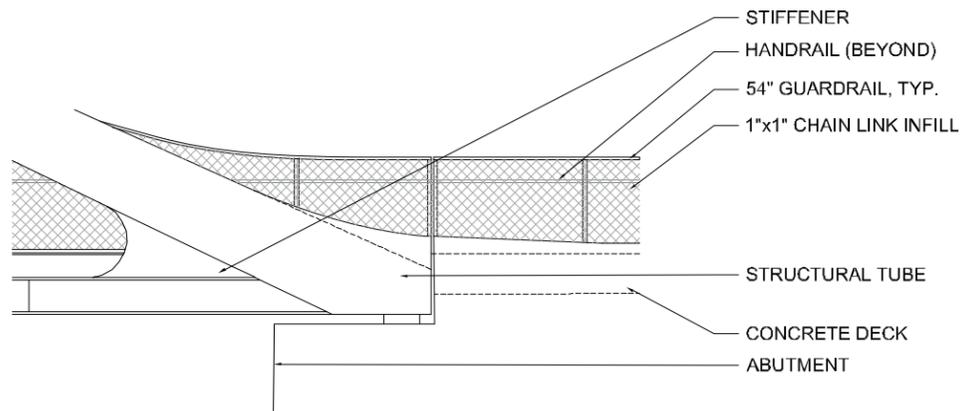
PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT

SEPTEMBER 16, 2019

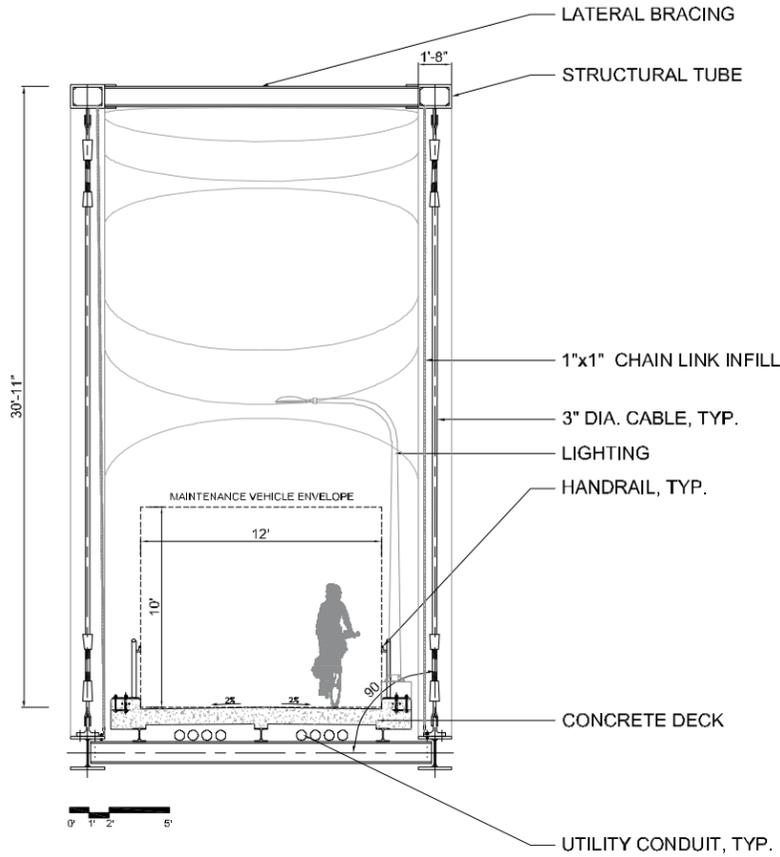
Delancey Street Bridge Greenway Connection 51



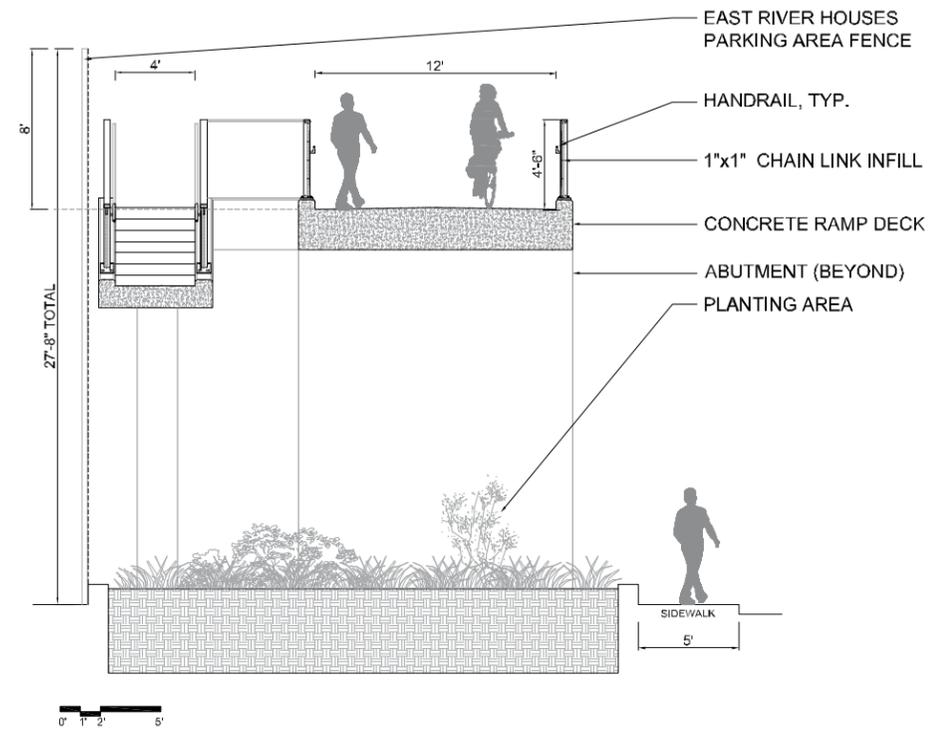
Transition Detail - Bridge to Concrete Pier



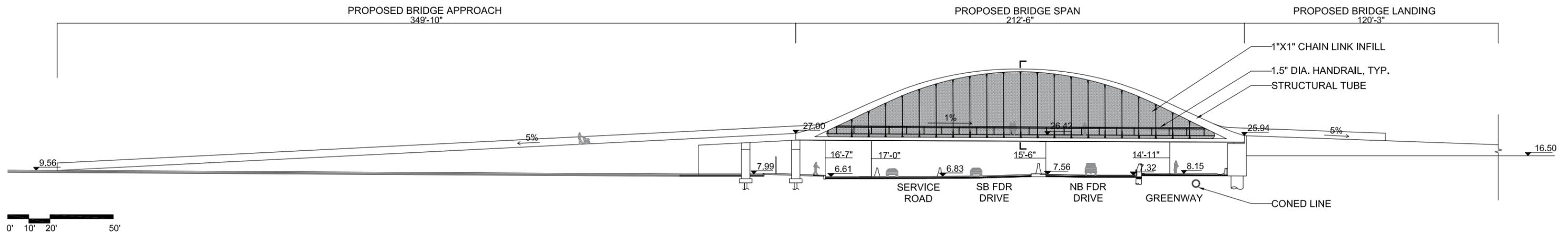
Transition Detail - Bridge to Abutment



Section Through Bridge Arch



Section Through Ramp & Stair



Bridge Elevation



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EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

Delancey Street Bridge City-Side Landing



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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

Delancey Street Bridge On Bridge View

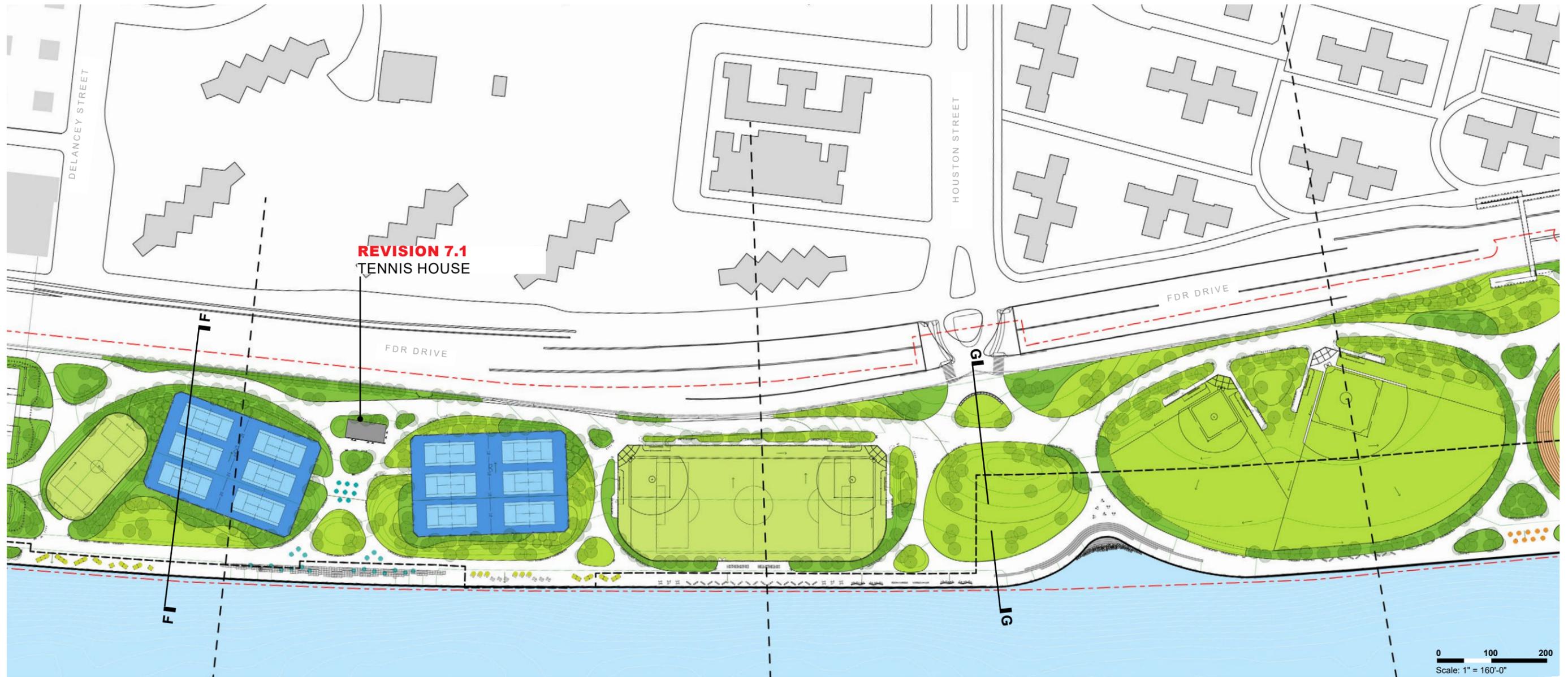


LEGEND

-  FENCE
-  SYNTHETIC TURF
-  GRASS / PLANTED AREA
-  EXISTING TREE

PA1 KEY PLAN





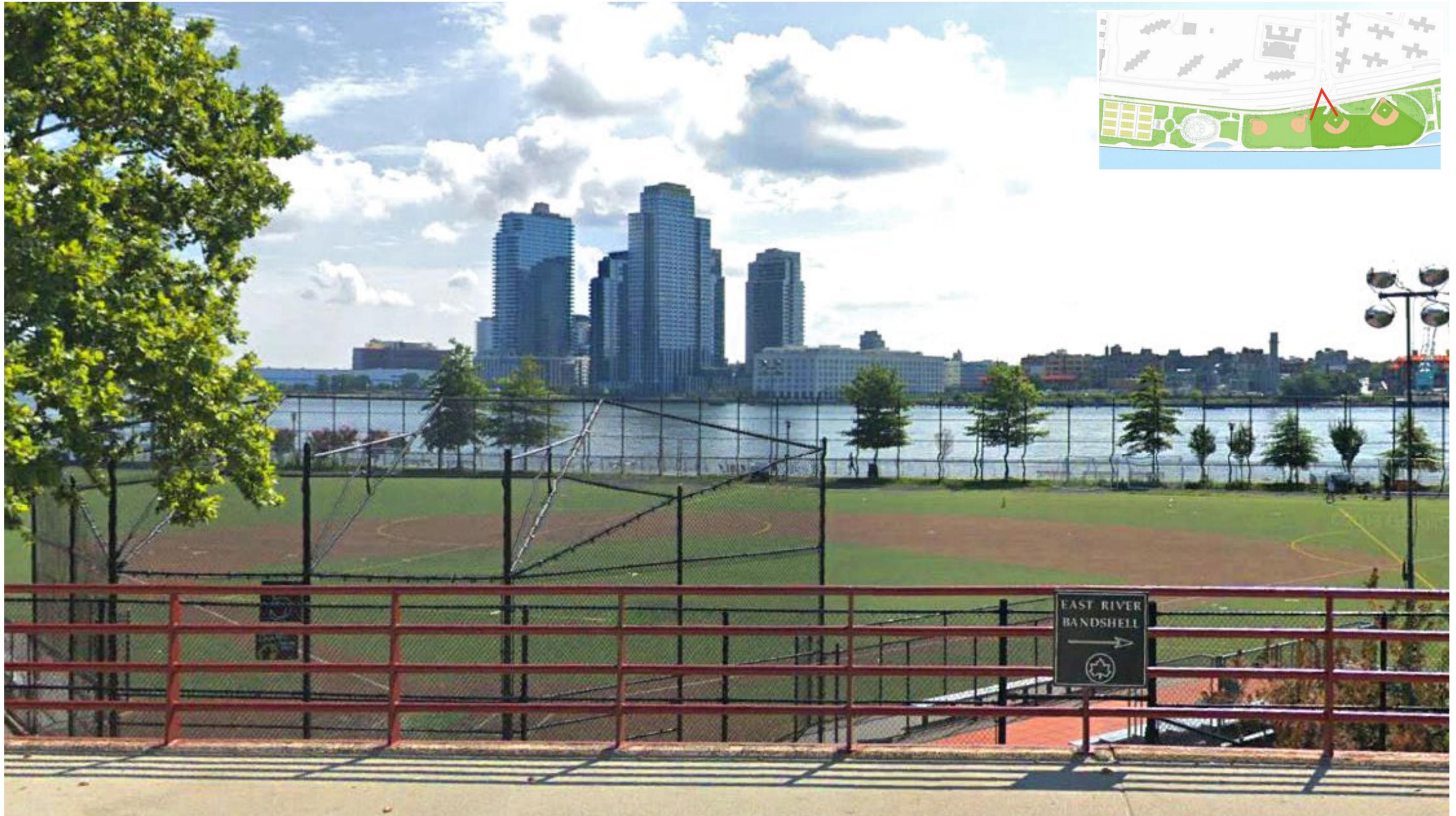
LEGEND

- - - ESCR LIMIT OF WORK
- FLOODWALL, ABOVE GRADE
- FLOODWALL, BELOW GRADE
- CONED SUBSURFACE LINES
- FENCE
- REGULATORS
- SYNTHETIC TURF
- LAWN AREA
- PLANTED AREA
- PAINTED ASPHALT COURTS
- EXISTING TREES
- PROPOSED TREES

PA1 KEY PLAN







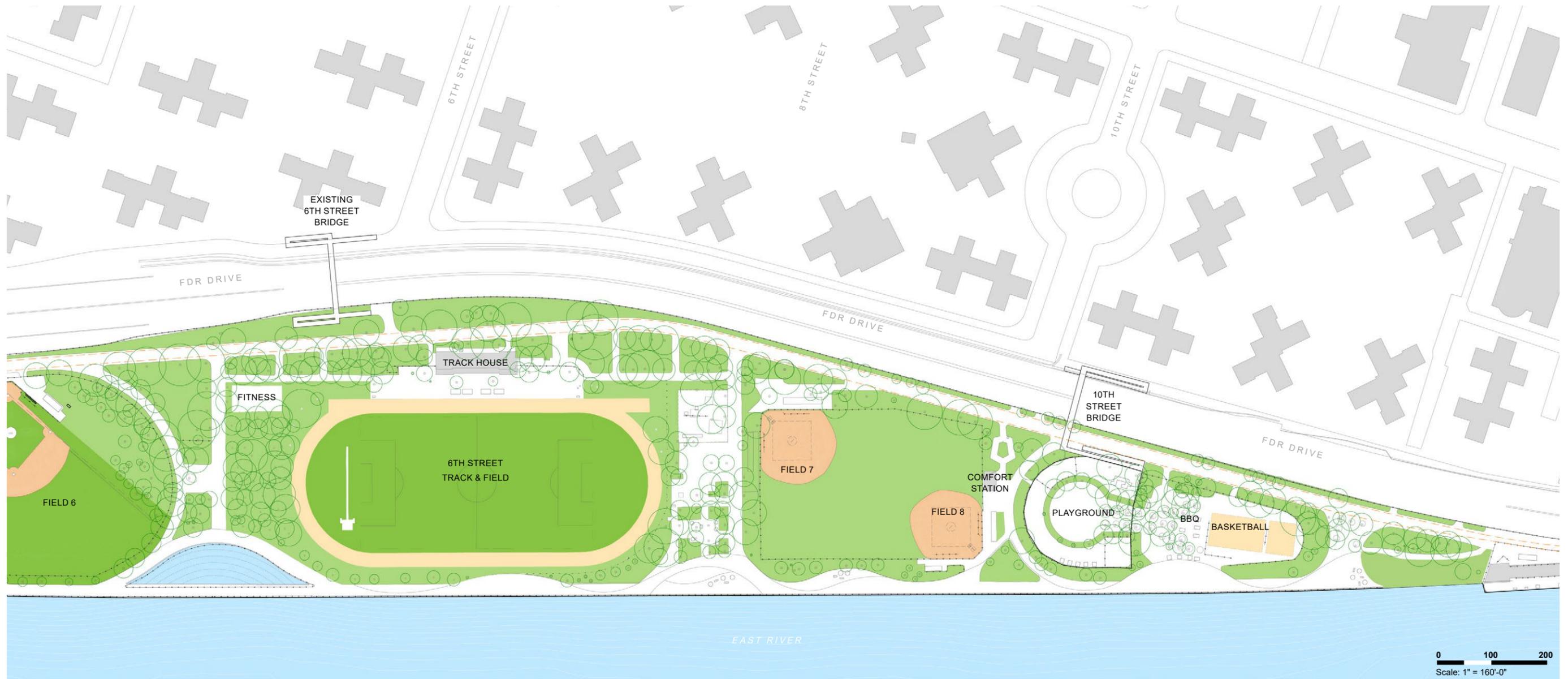




AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019



LEGEND

-  FENCE
-  SYNTHETIC TURF
-  GRASS / PLANTED AREA
-  EXISTING TREE

PA1 KEY PLAN





LEGEND

- - - ESCR LIMIT OF WORK
- FLOODWALL, ABOVE GRADE
- FLOODWALL, BELOW GRADE
- CONED SUBSURFACE LINES
- FENCE
- REGULATORS
- SYNTHETIC TURF
- LAWN AREA
- PLANTED AREA
- PAINTED ASPHALT COURTS
- EXISTING TREES
- PROPOSED TREES

PA1 KEY PLAN









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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

**10th Street Bridge
FDR View 65**

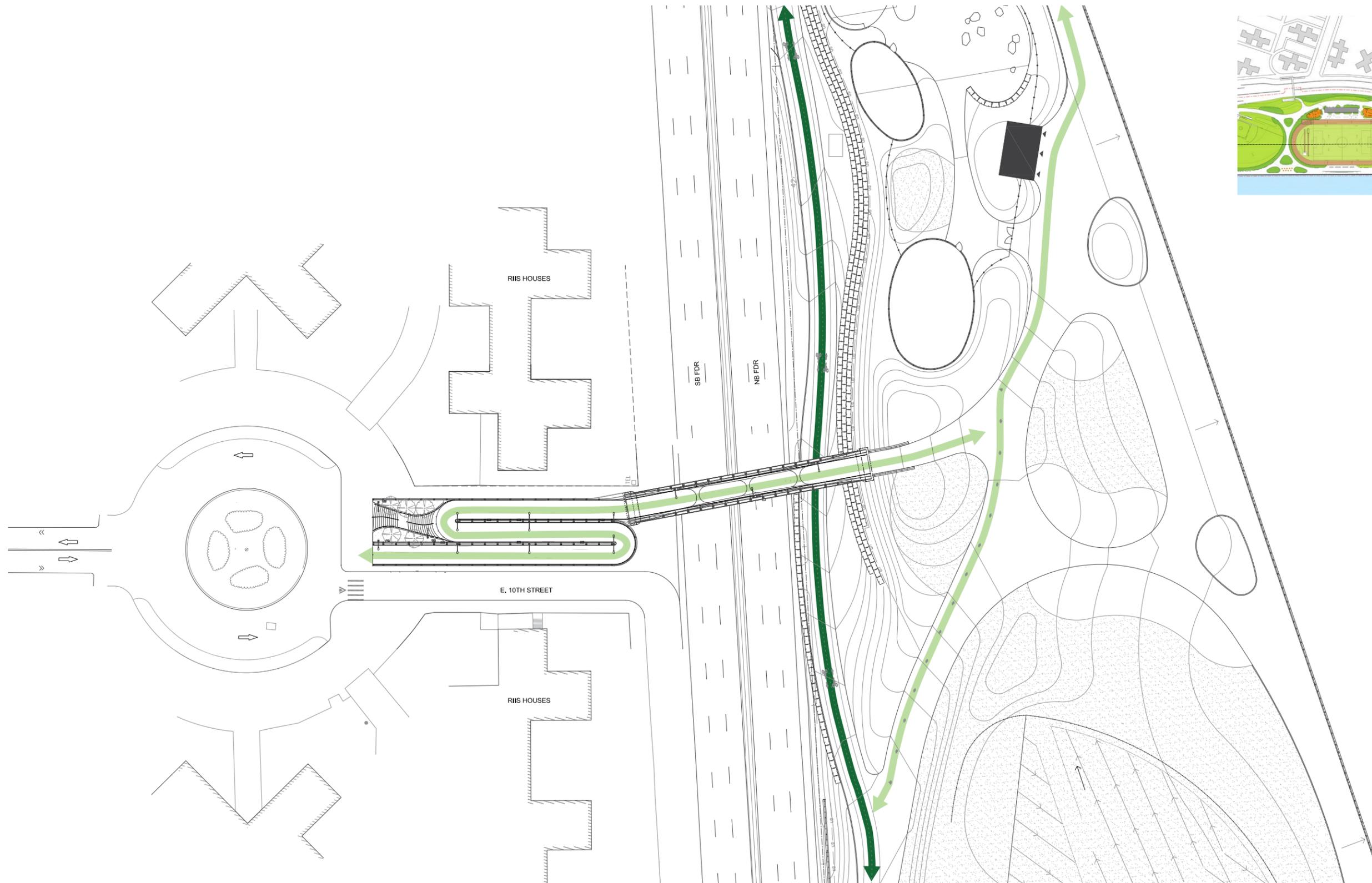


AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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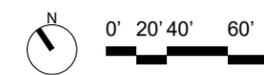
**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

**10th Street Bridge
Aerial View 66**



 CITY-SIDE BIKE CONNECTION
 MANHATTAN GREENWAY

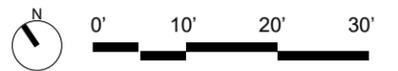
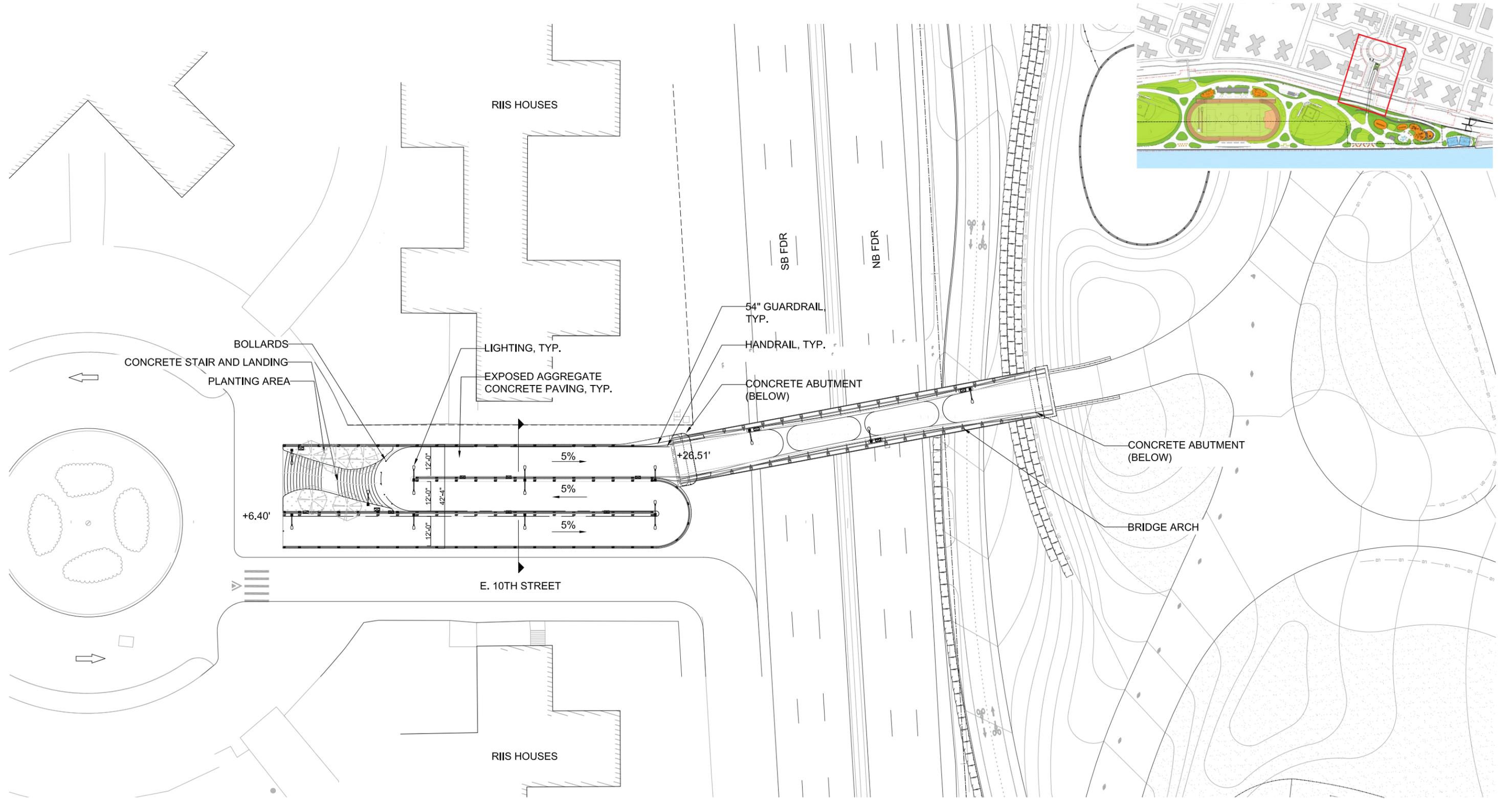


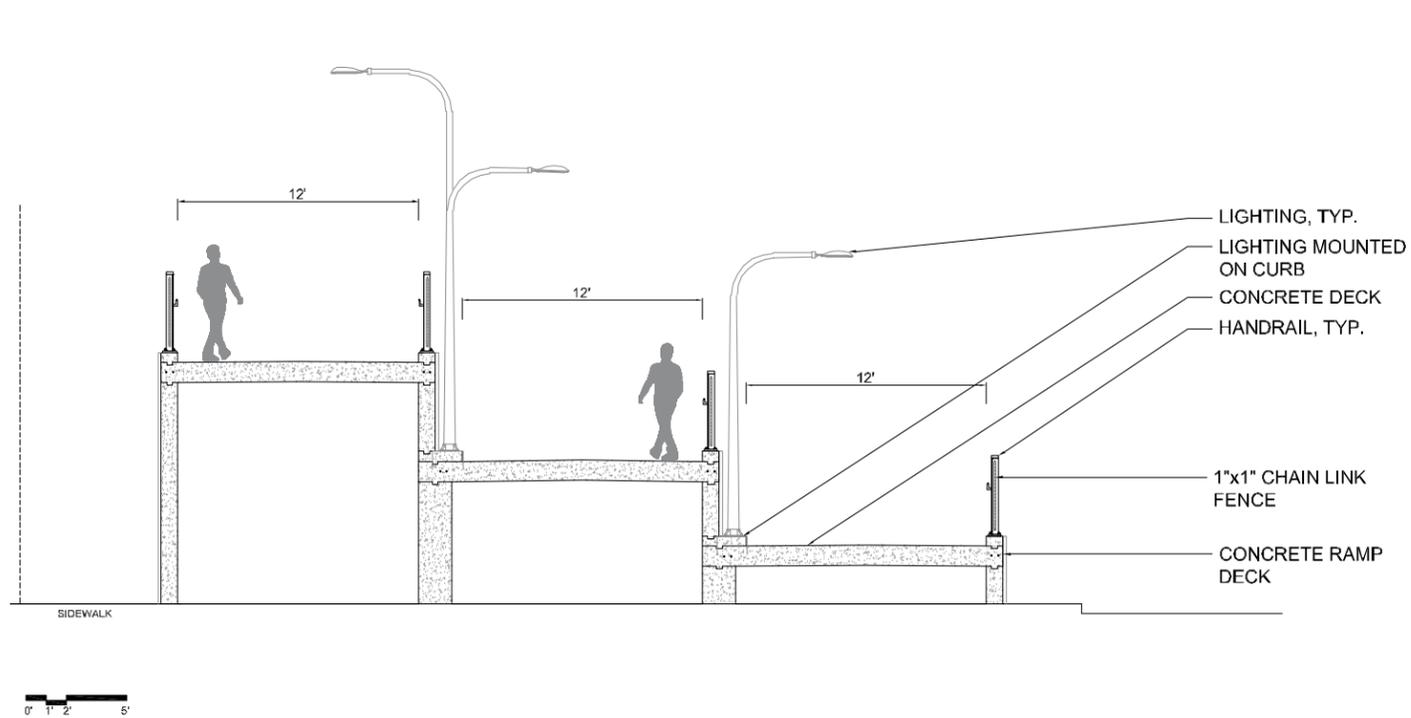
AKRF-KSE, JV	BJARKE	MATHEWS NIELSEN	ONE	NEW YORK CITY	NEW YORK CITY	NEW YORK	NEW YORK CITY DEPT.	NEW YORK CITY MAYOR'S
INGELS	LANDSCAPE	ARCHITECTURE	DEPT. OF DESIGN AND	DEPT. OF PARKS AND	CITY DEPT. OF	OF ENVIRONMENTAL	OFFICE OF RESILIENCY	
GROUP	ARCHITECTS, P.C.	AND URBANISM	CONSTRUCTION	RECREATION	TRANSPORTATION	PROTECTION		

PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT

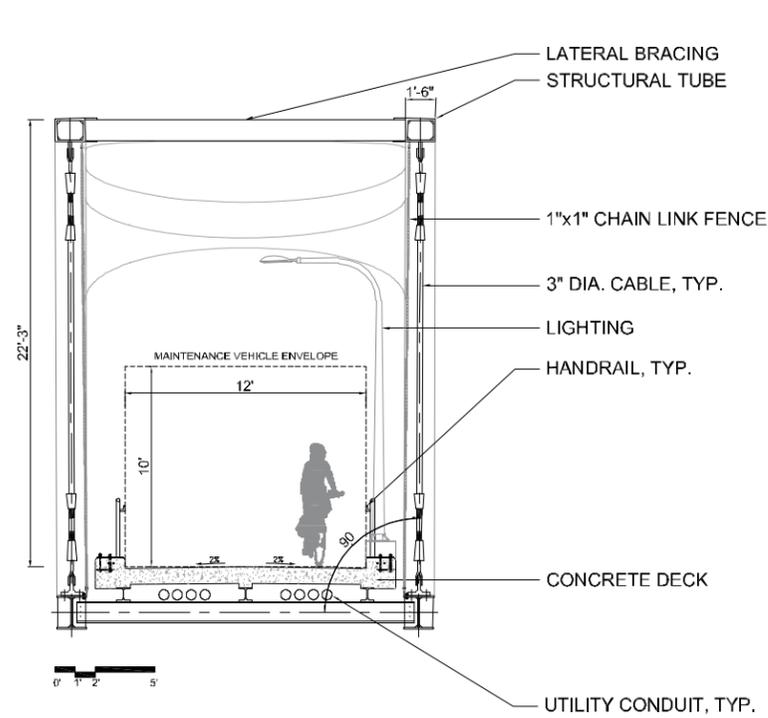
SEPTEMBER 16, 2019

10th Street Bridge Greenway Connection 67

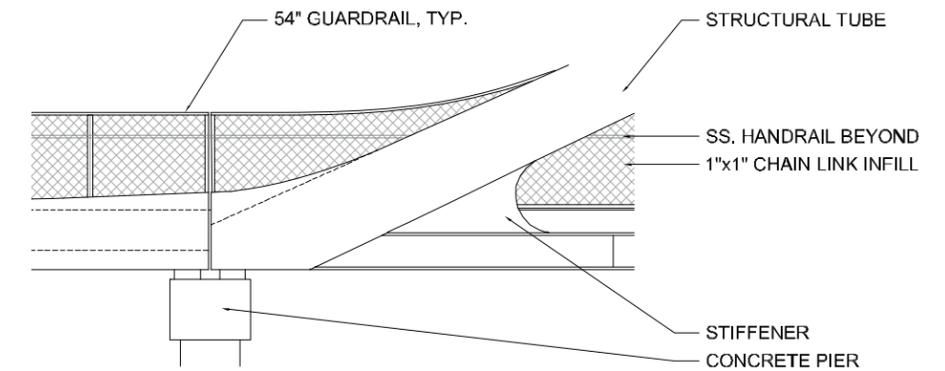




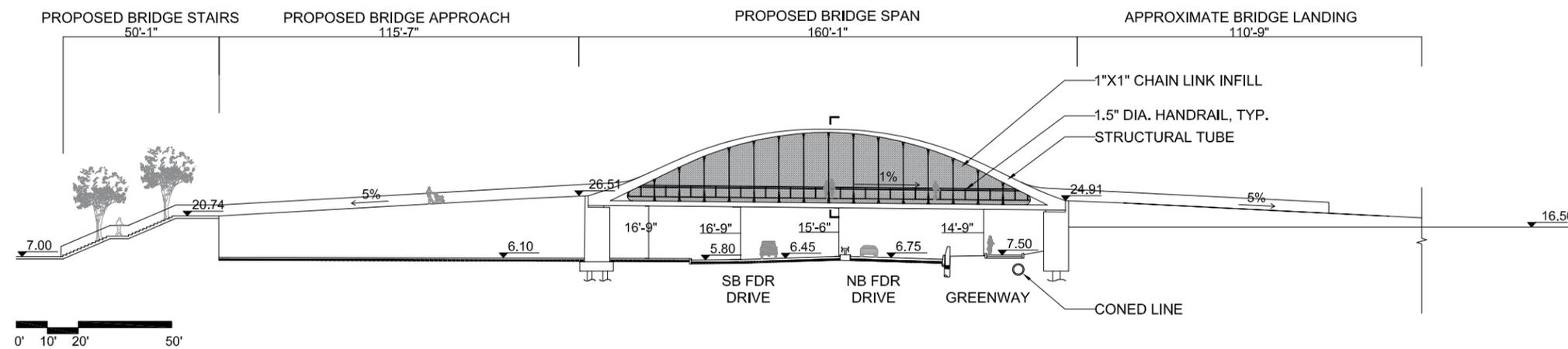
Section Through Ramp



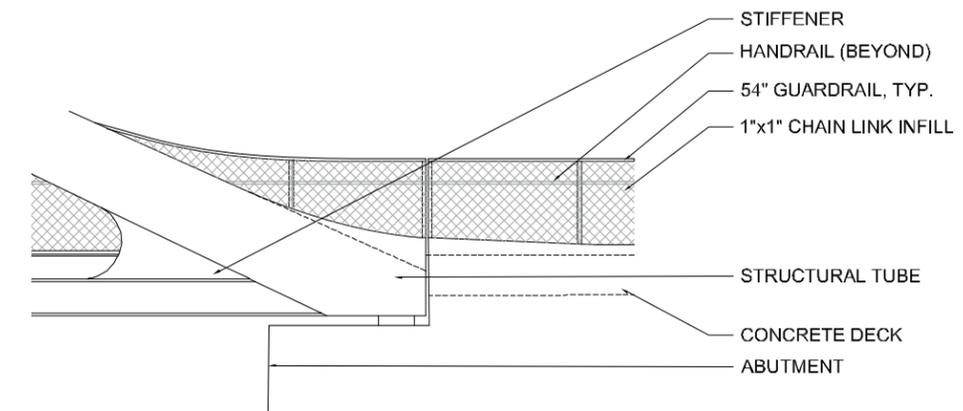
Section Through Bridge Arch



Transition Detail - Bridge to Concrete Pier



Bridge Elevation



Transition Detail - Bridge to Abutment



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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

**10th Street Bridge
Approach View 70**



AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

**10th Street Bridge
Park View 71**



AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

PRIMARY PATHWAYS



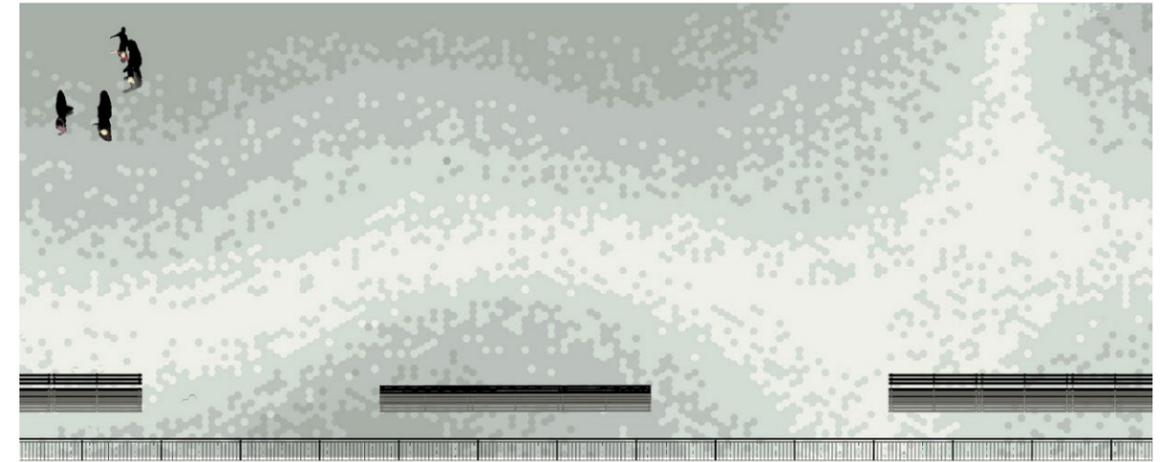
FULL DEPTH ASPHALT PAVEMENT
BIKE LANE



EXPOSED AGG. CONCRETE PAVEMENT W/ SAW CUT JOINTS
PARK PATHWAYS



CONCRETE UNIT PAVER
ESPLANADE
8" HEX PAVER



CONCRETE UNIT PAVER PATTERN

10'

SECONDARY PATHWAYS



CEMENT CONCRETE PAVEMENT
MAINTENANCE AREAS



RECYCLED BARK MULCH
UNDER EXISTING TREES &
NATURAL EXPLORATION AREAS



LANDSCAPE STONE
SLOPE AND EDGES



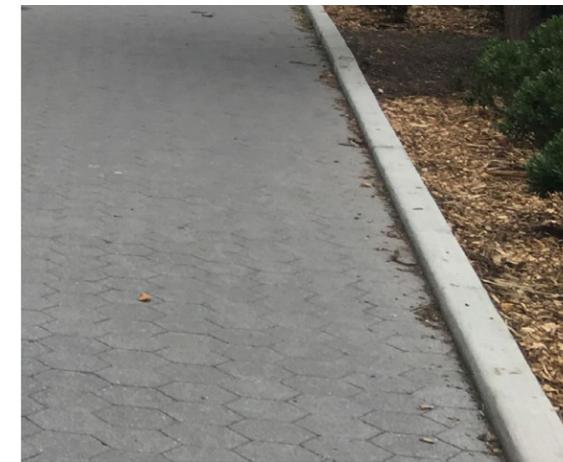
CONCRETE SEATWALLS
PRECAST CONCRETE



CONCRETE WALLS
POURED IN PLACE CONCRETE



AVERAGE CONCRETE
CONCRETE STEPS

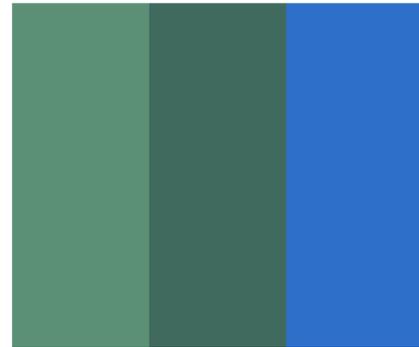


STANDARD CONCRETE CURBS
6" WIDE; FLUSH OR 2" HEIGHT
POURED IN PLACE
AVERAGE CONCRETE



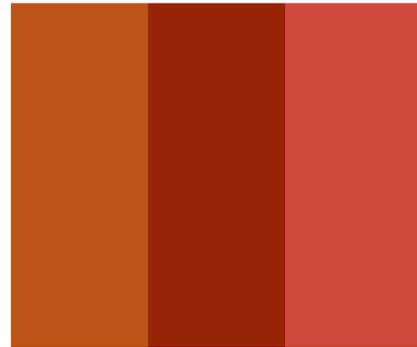
STANDARD SAFETY SURFACE

MITCHELL RUBBER TILES
8' & 10' DROP HEIGHTS
COLOR: SAND
EAST RIVER PARK



STANDARD SAFETY SURFACE

MITCHELL RUBBER TILES
8' & 10' DROP HEIGHTS
COLOR:#12, #17, #2
MURPHY BROTHERS
PLAYGROUND



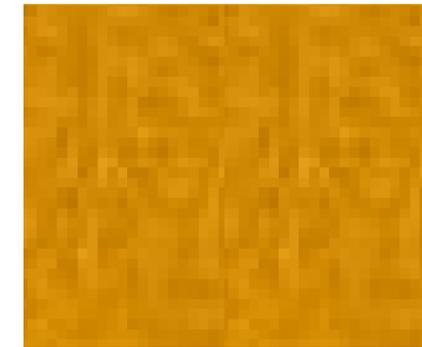
STANDARD SAFETY SURFACE

MITCHELL RUBBER TILES
8' & 10' DROP HEIGHTS
COLOR:#14, #16, #20
ASSER LEVY
PLAYGROUND



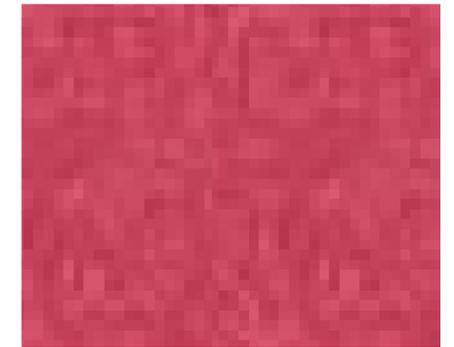
SCARLET

ASPHALT WITH COLOR SEAL
BASKETBALL COURTS



PUMPKIN

ASPHALT WITH COLOR SEAL
BASKETBALL COURTS



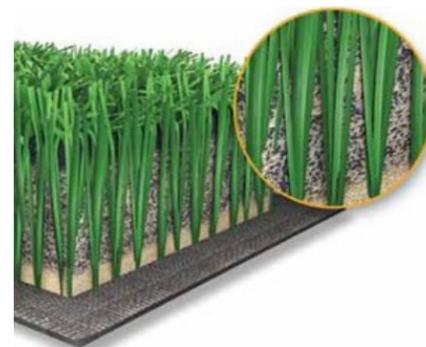
CORAL

ASPHALT WITH COLOR SEAL
BASKETBALL COURTS



SKINNED INFIELD

FOR BASEBALL & SOFTBALL
STANDARD INFIELD MIX



SYNTHETIC TURF W/ INFILL

FIELDS 1, 2, 3, 4



ARCTIC

ASPHALT WITH COLOR SEAL
TENNIS COURTS



MIDNIGHT

ASPHALT WITH COLOR SEAL
TENNIS COURTS



TEAL

ASPHALT WITH COLOR SEAL
TENNIS COURTS



PARK FENCING
 COATED CHAINLINK
 4', 6', 8', 12' & 16' HEIGHTS
 SPORTS FIELDS, PLAYGROUNDS,
 MAINTENANCE AREAS
 COLOR: BLACK



PLANT RAIL FENCE
 PAINTED STEEL PIPE
 2' 6" HEIGHT
 COLOR: BLACK
 STUYVESANT COVE PARK



HAND RAILS & GUARDRAILS
 PAINTED STEEL PIPE
 42" HEIGHT
 COLOR: BLACK
 EAST RIVER PARK



PARKS STANDARD PROMENADE RAIL
 42" HEIGHT
 BLACK
 ESPLANADE



**STANDARD BENCH (BACK)
1964 WORLD'S FAIR**
WITH ARMS
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**



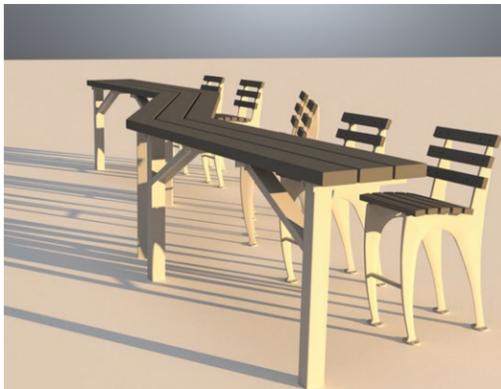
BAR STOOL, 1964 WORLD'S FAIR
 1'-6" WIDTH 4'-9" LENGTH
 RPL SLATS, WEATHERED WOOD
 LOCATION: ESPLANADE



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



SOLSTICE UMBRELLA - ALTAIR
LANDSCAPE FORMS
 LOCATION: ESPLANADE



SOLSTICE UMBRELLA - ALTAIR
LANDSCAPE FORMS
PRECEDENT IMAGE



TYPE B LIGHT
12' POLE
LED
COLOR: BLACK
ASSER LEVY
PLAYGROUND

FLUSHING MEADOWS
12' POLE
LED
COLOR: BLACK
EAST RIVER PARK,
STUYVESANT COVE
PARK, MURPHY
BROTHERS
PLAYGROUND



PROPOSED
EVERGEN M SERIES SOLAR LIGHT
BY SOL, INC.
POLE HEIGHT 18'
SOLAR LIGHT
COLOR BLACK
EAST RIVER PARK ESPLANADE
(UNDER REVIEW)



**DOT STANDARD
DAVIT W/ COBRA
HEAD**
30' POLE
LED LIGHT
COLOR: SILVER
MAINTENANCE AREAS,
BRIDGES



**DOT STANDARD
DAVIT W/ COBRA
HEAD**
14' POLE
LED LIGHT
COLOR: SILVER
DELANCEY BRIDGE



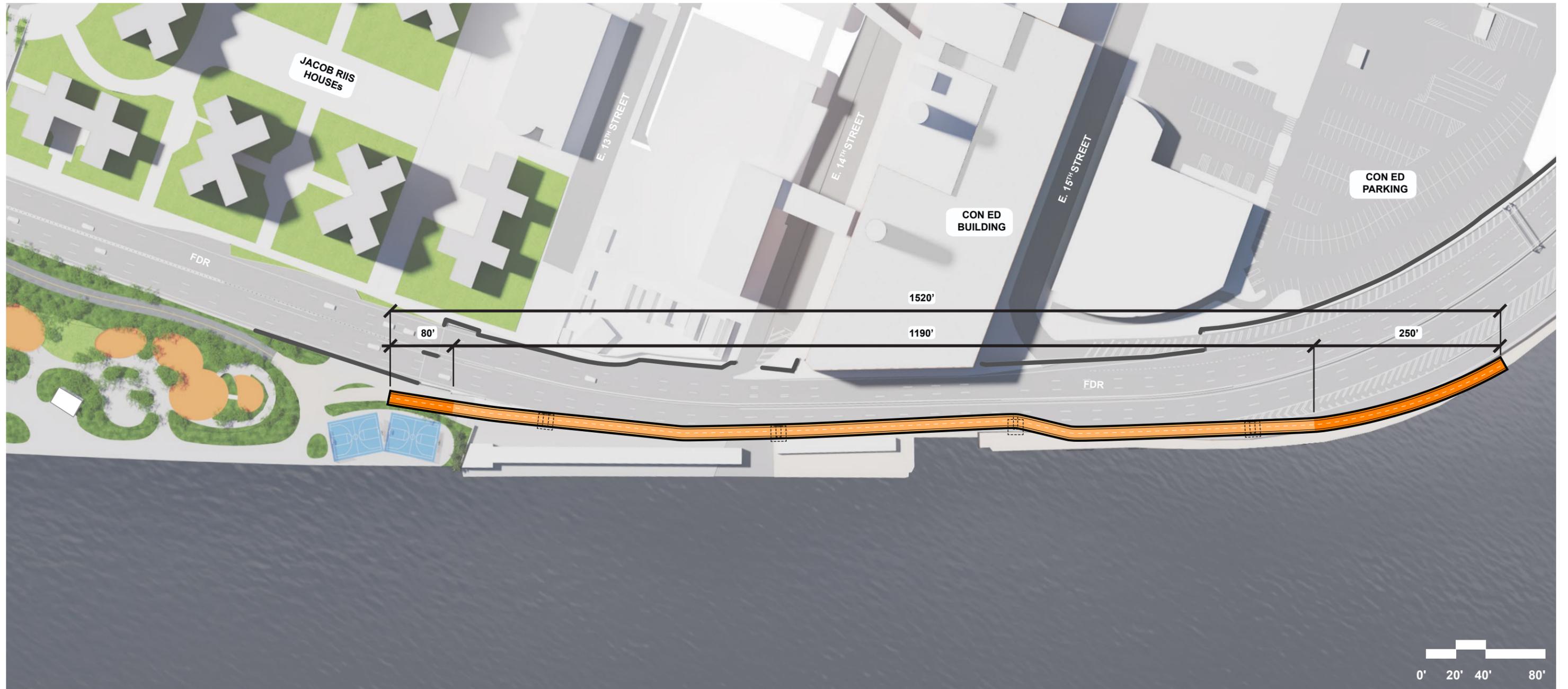
SPORTS TOWER
60'-80' POLE
LED FLOODLIGHT
COLOR: SILVER
FIELDS 1,2 & 6



**SPORTS
TOWER**
30' POLE
LED
FLOODLIGHT
COLOR: SILVER
AMPHITHEATER



TYPE M
27'-7" POLE
LED
ROW



- FLYOVER BRIDGE
- BRIDGE APPROACH
- FLYOVER BRIDGE FOUNDATION



AKRF-KSE, JV	BJARKE	MATHEWS NIELSEN	ONE	NEW YORK CITY	NEW YORK CITY	NEW YORK	NEW YORK CITY DEPT.	NEW YORK CITY MAYOR'S
	INGELS	LANDSCAPE	ARCHITECTURE	DEPT. OF DESIGN AND	DEPT. OF PARKS AND	CITY DEPT. OF	OF ENVIRONMENTAL	OFFICE OF RESILIENCY
	GROUP	ARCHITECTS, P.C.	AND URBANISM	CONSTRUCTION	RECREATION	TRANSPORTATION	PROTECTION	

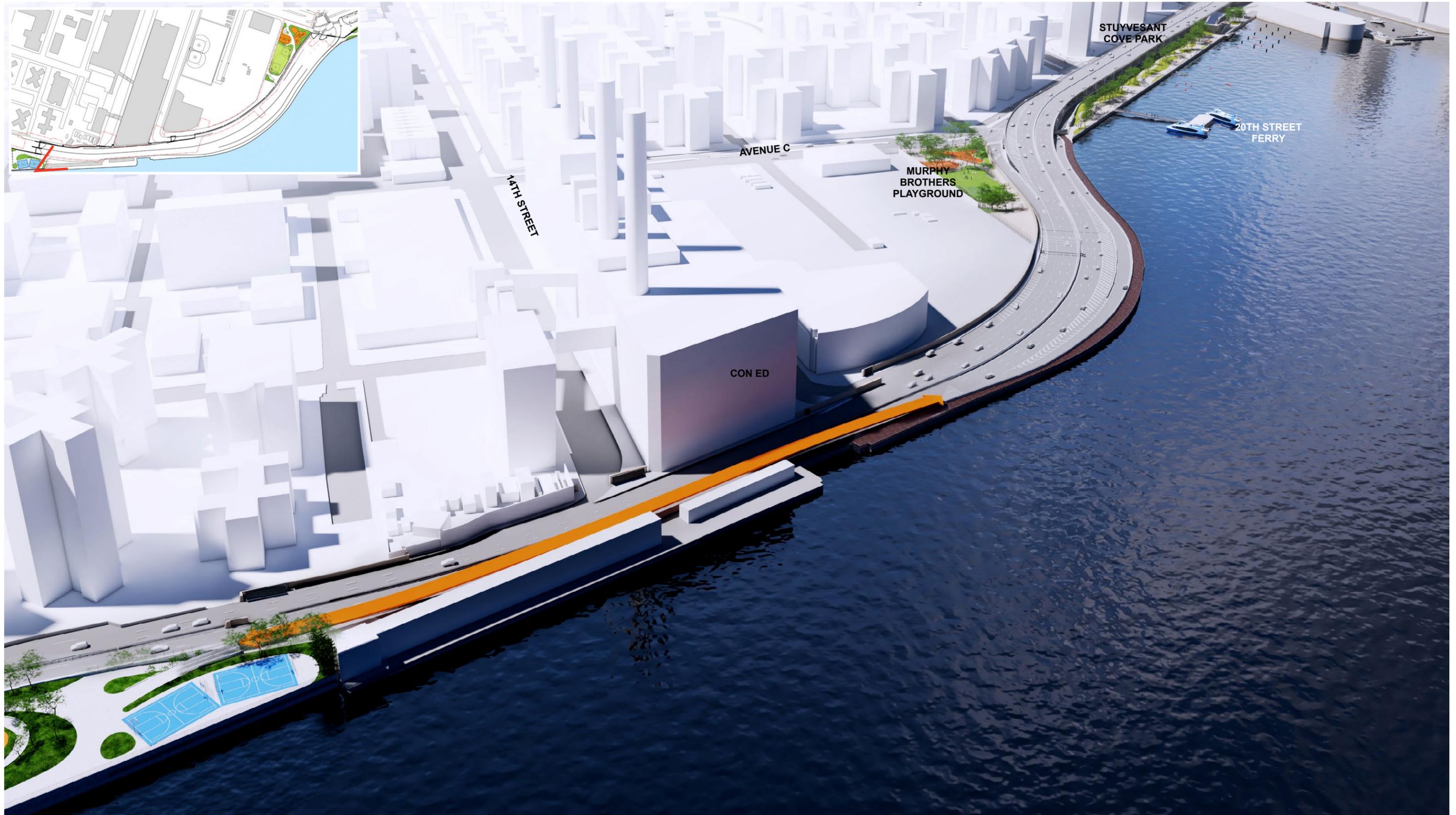
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EAST SIDE COASTAL
RESILIENCY PROJECT**

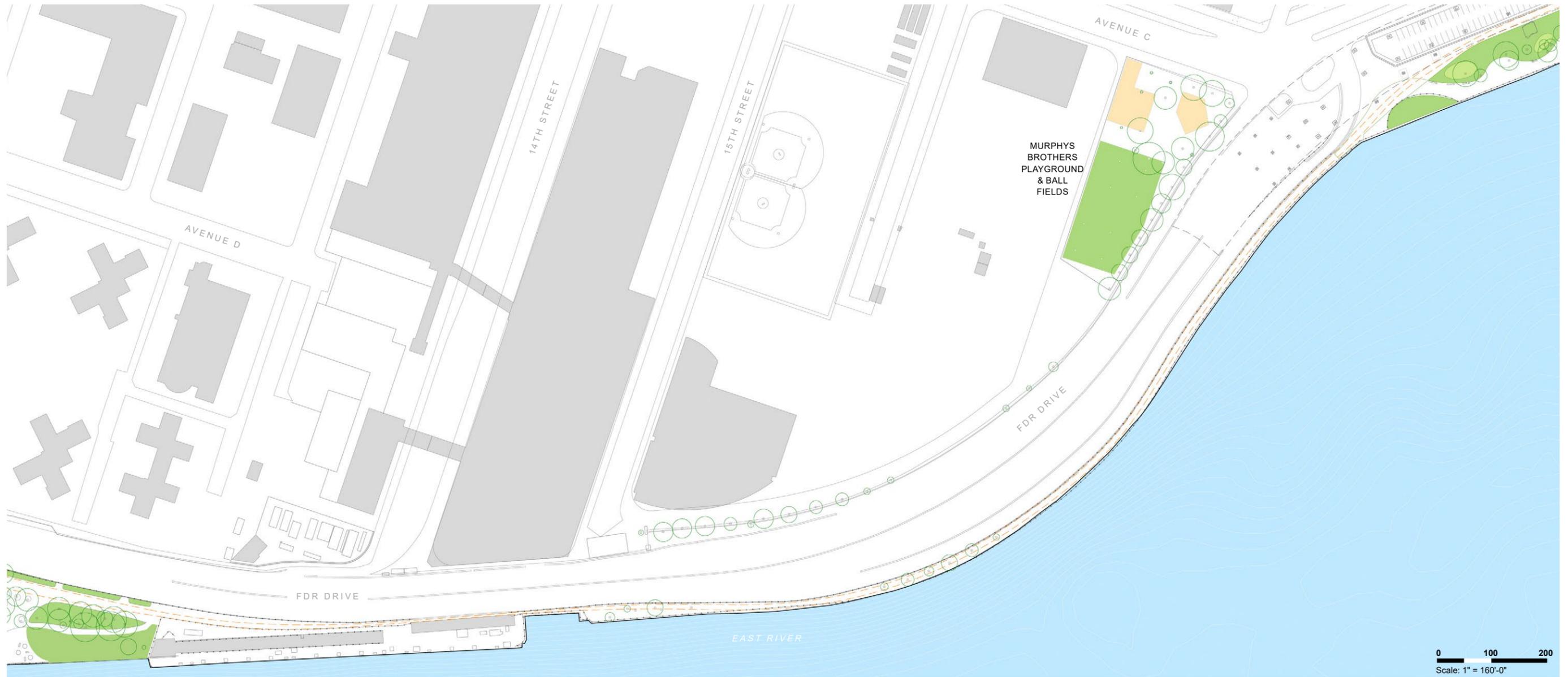
SEPTEMBER 16, 2019

**E. 13th St. Floodwall
Aerial View**



**BRIDGE SUPERSTRUCTURE
CURRENTLY UNDER DEVELOPMENT**



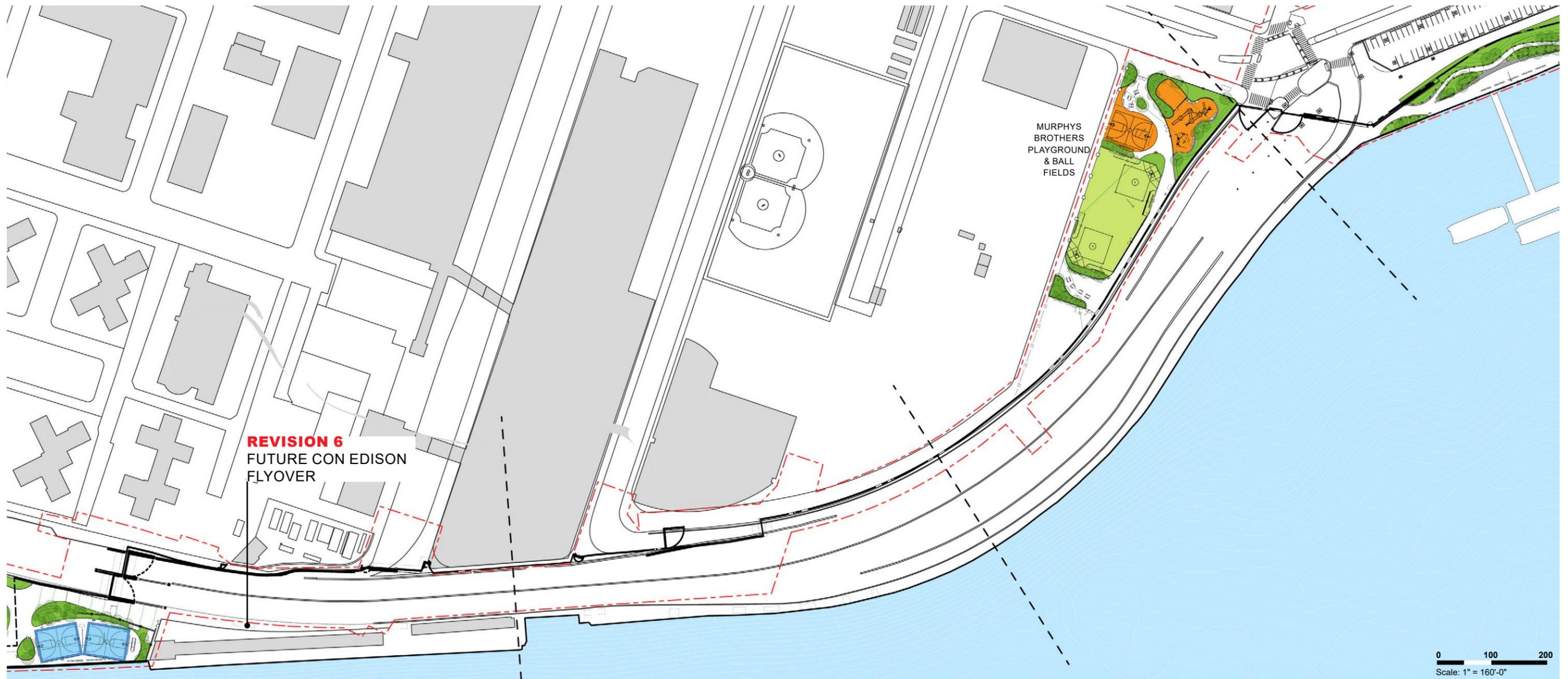


LEGEND

-  FENCE
-  SYNTHETIC TURF
-  GRASS / PLANTED AREA
-  EXISTING TREE

PA2 KEY PLAN





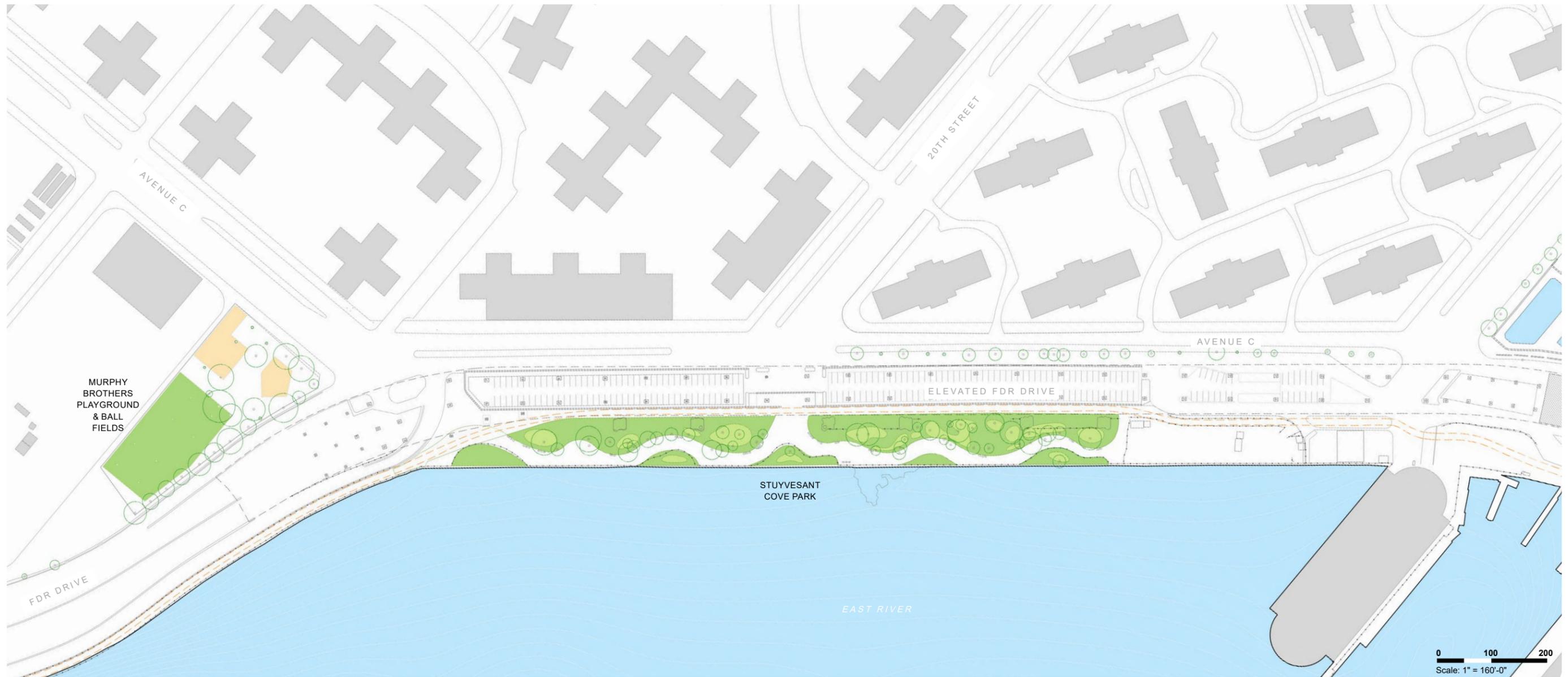
LEGEND

- - - ESCR LIMIT OF WORK
- FLOODWALL
- CONED TUNNEL / TROUGH
- FENCE
- REGULATORS
- SYNTHETIC TURF
- LAWN AREA
- PLANTED AREA
- EXISTING TREES
- PROPOSED TREES
- BW X.X' - BOTTOM OF WALL
- TW X.X' - TOP OF WALL

PA2 KEY PLAN





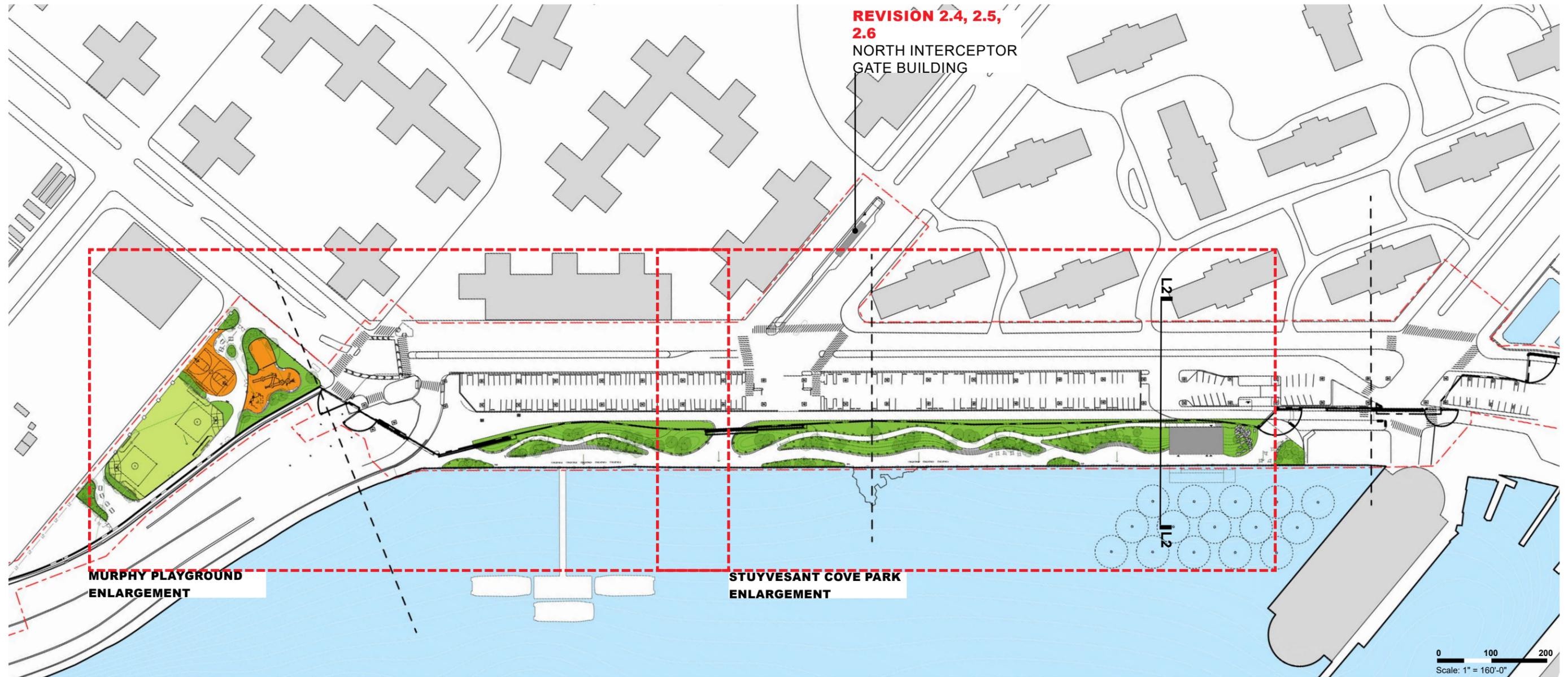


LEGEND

-  FENCE
-  SYNTHETIC TURF
-  GRASS / PLANTED AREA
-  EXISTING TREE

PA2 KEY PLAN





LEGEND

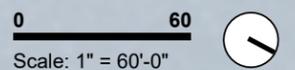
- - - ESCR LIMIT OF WORK
- FLOODWALL
- CONED TUNNEL / TROUGH
- FENCE
- REGULATORS
- FERRY ELECTRICAL EQUIPMENT

- SYNTHETIC TURF
- LAWN AREA
- PLANTED AREA
- EXISTING TREES
- PROPOSED TREES
- BW X.X' - BOTTOM OF WALL
- TW X.X' - TOP OF WALL

PA2 KEY PLAN







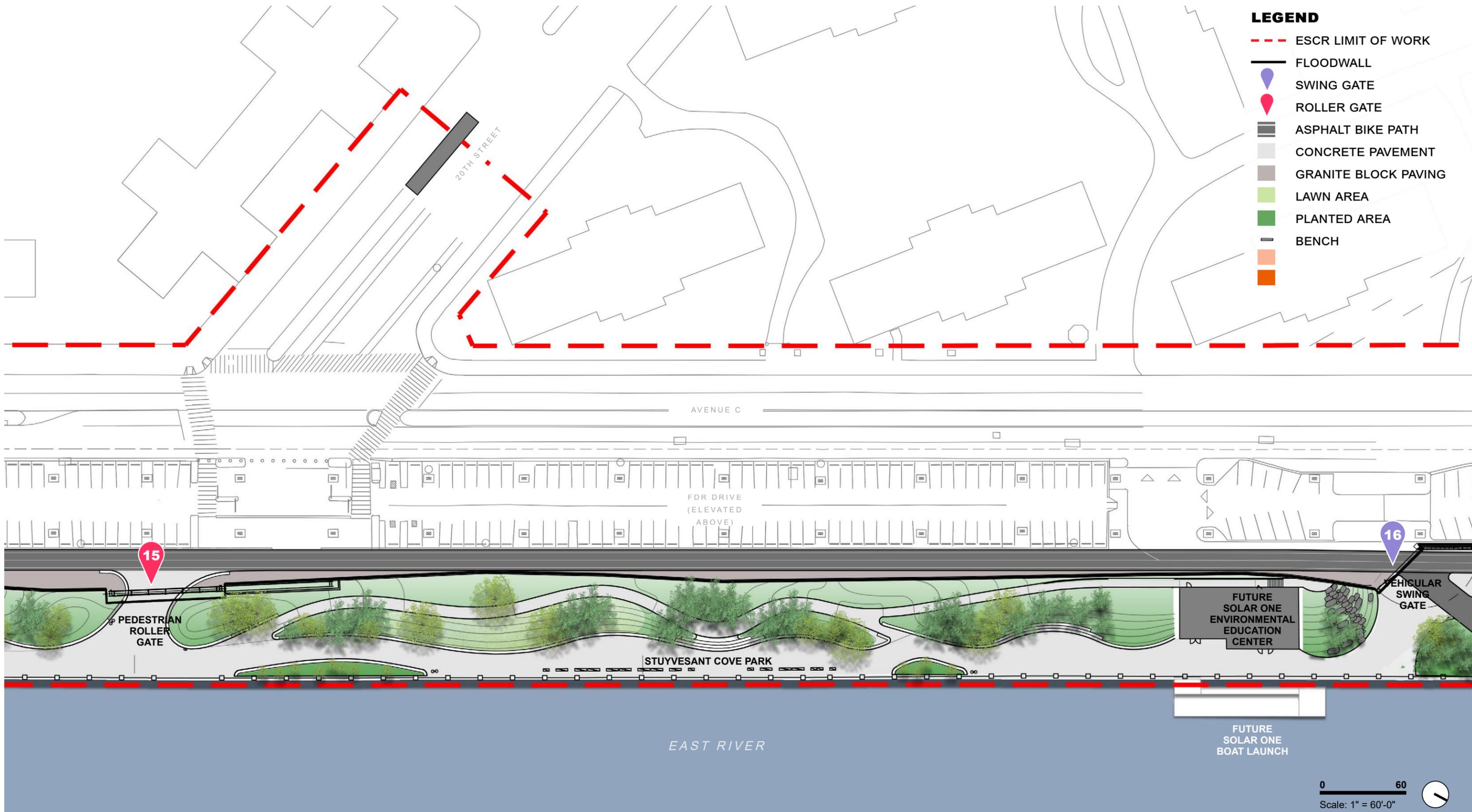


AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

Murphy Brothers Playground Preliminary Review





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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

Stuyvesant Cove Park Preliminary Review





AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
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SEPTEMBER 16, 2019

Stuyvesant Cove Park Preliminary Review 95



AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

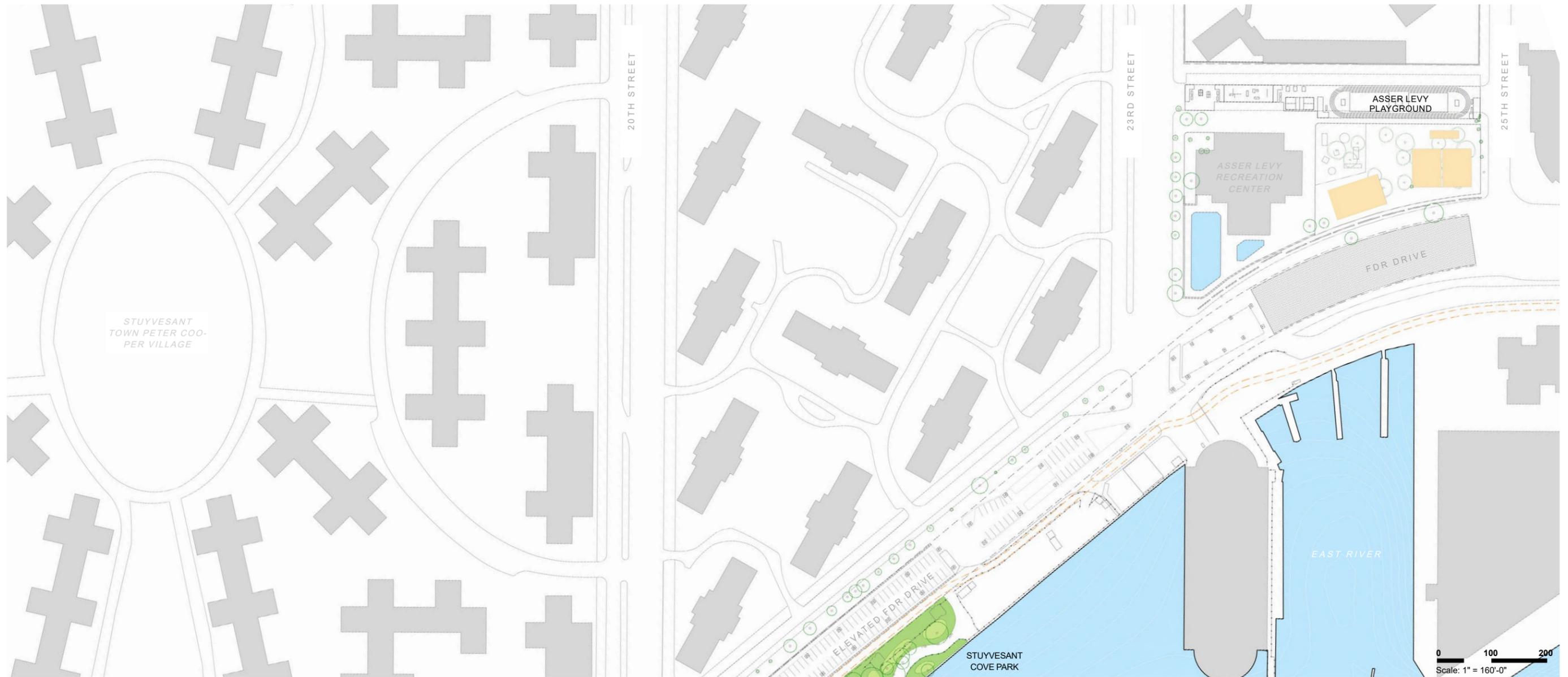


AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

**20th Street Entry
Preliminary Review 97**

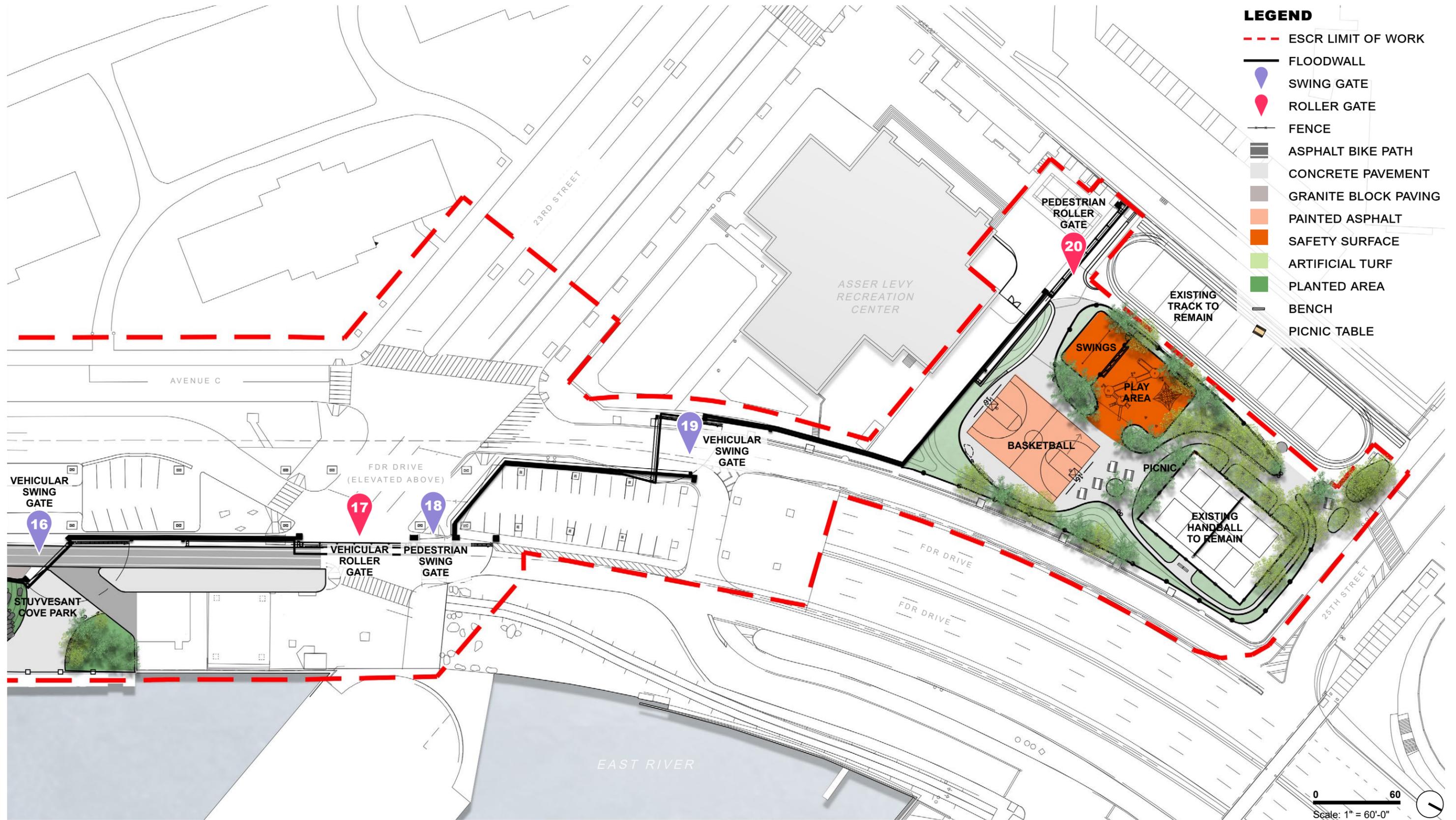


LEGEND

-  FENCE
-  SYNTHETIC TURF
-  GRASS / PLANTED AREA
-  EXISTING TREE

PA2 KEY PLAN







AKRF-KSE, JV	BJARKE	MATHEWS NIELSEN	ONE	NEW YORK CITY	NEW YORK CITY	NEW YORK	NEW YORK CITY DEPT.	NEW YORK CITY MAYOR'S
	INGELS	LANDSCAPE	ARCHITECTURE	DEPT. OF DESIGN AND	DEPT. OF PARKS AND	CITY DEPT. OF	OF ENVIRONMENTAL	OFFICE OF RESILIENCY
	GROUP	ARCHITECTS, P.C.	AND URBANISM	CONSTRUCTION	RECREATION	TRANSPORTATION	PROTECTION	

**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

**Reach 0
Preliminary Review 100**

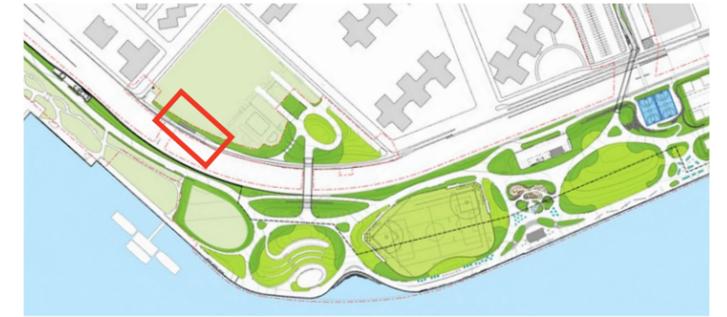


AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

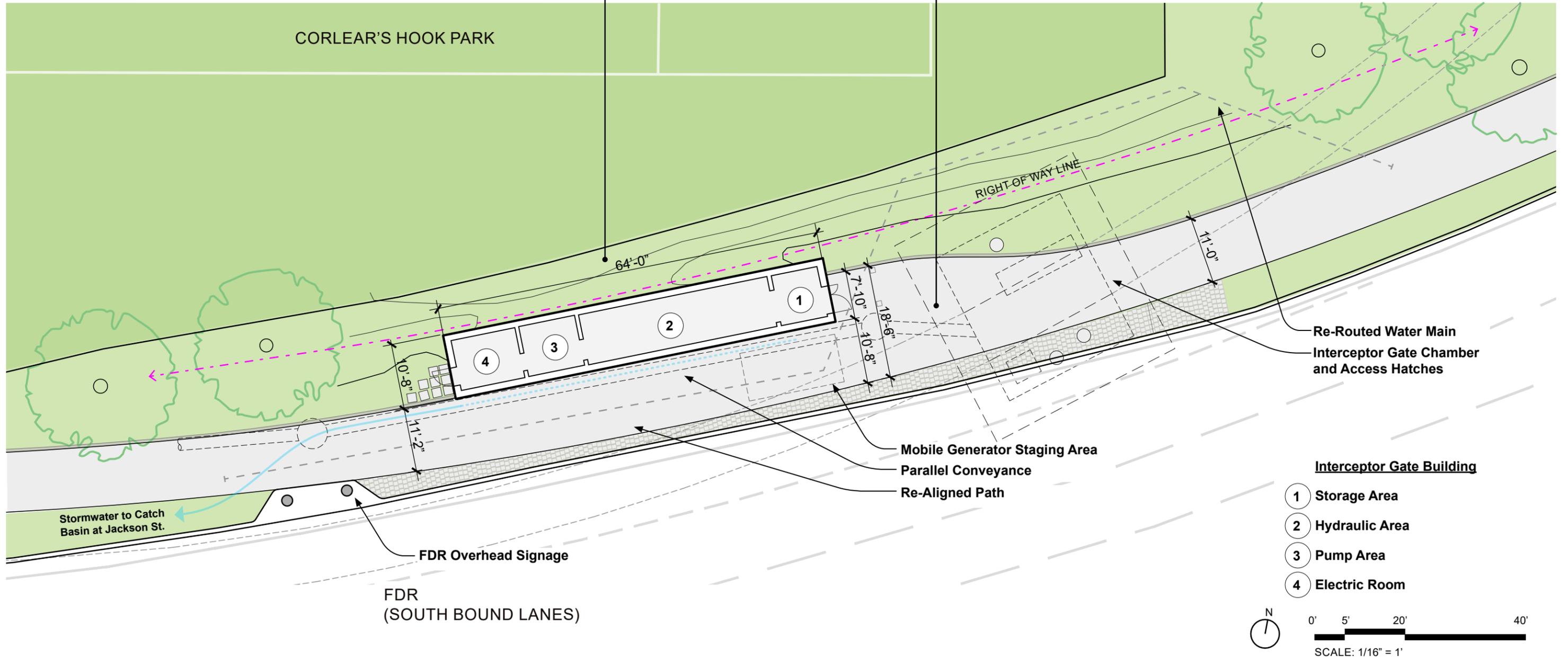
SEPTEMBER 16, 2019

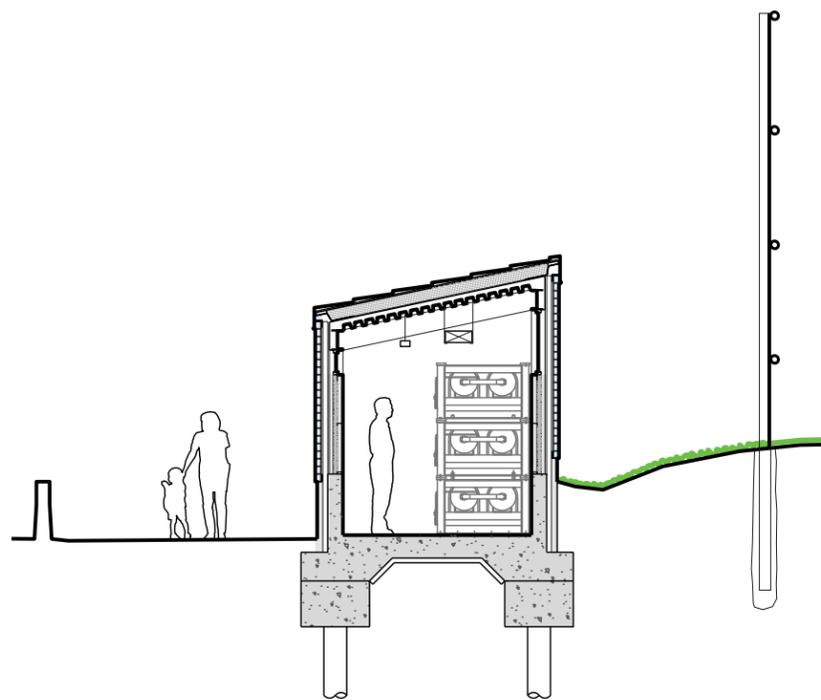
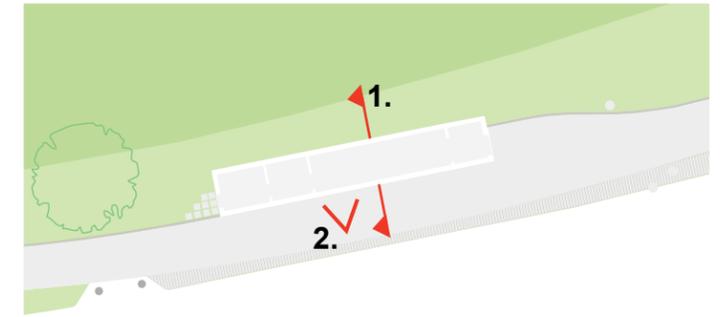
Asser Levy Playground Preliminary Review 101



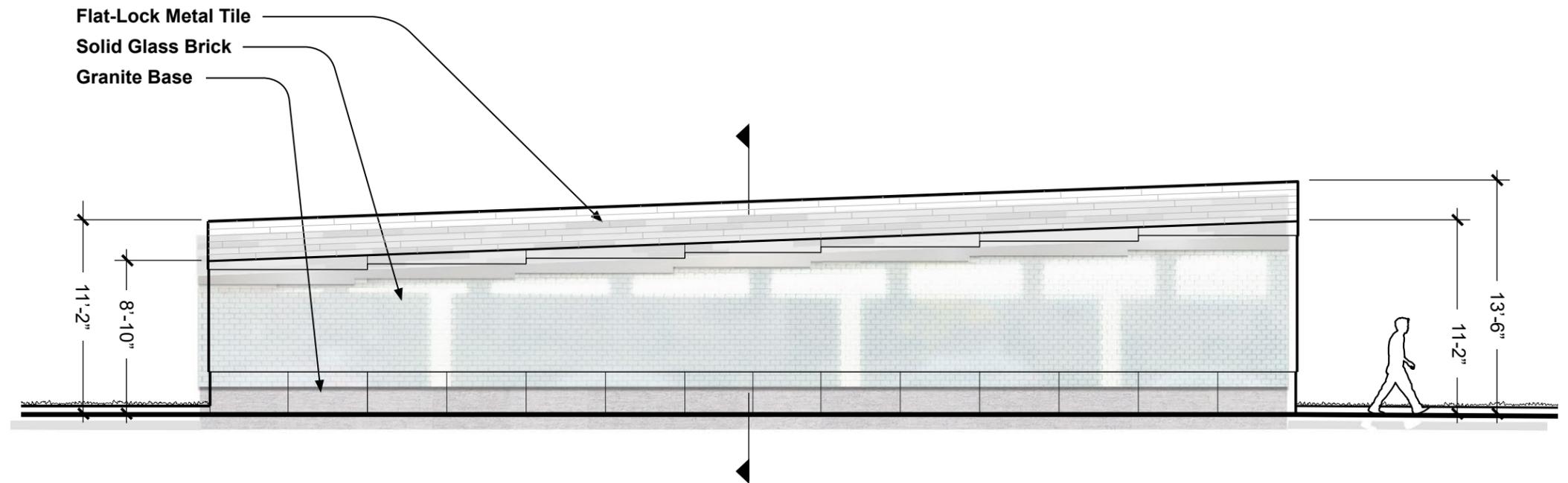
REVISION ITEM 2.2
 INCREASED BUILDING LENGTH TO
 ACCOMMODATE SELECTED GATE
 EQUIPMENT AND BARRIER STORAGE

REVISION ITEM 2.1
 HARDCAPED AREA &
 BUILDING LOCATION REVISED
 TO ACCOMMODATE DEP
 OPERATION REQ'S & ACCESS
 TO CHAMBER HATCHES

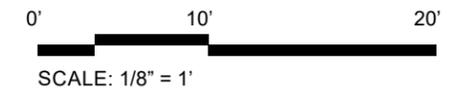




1. CROSS SECTION



2. SOUTH ELEVATION



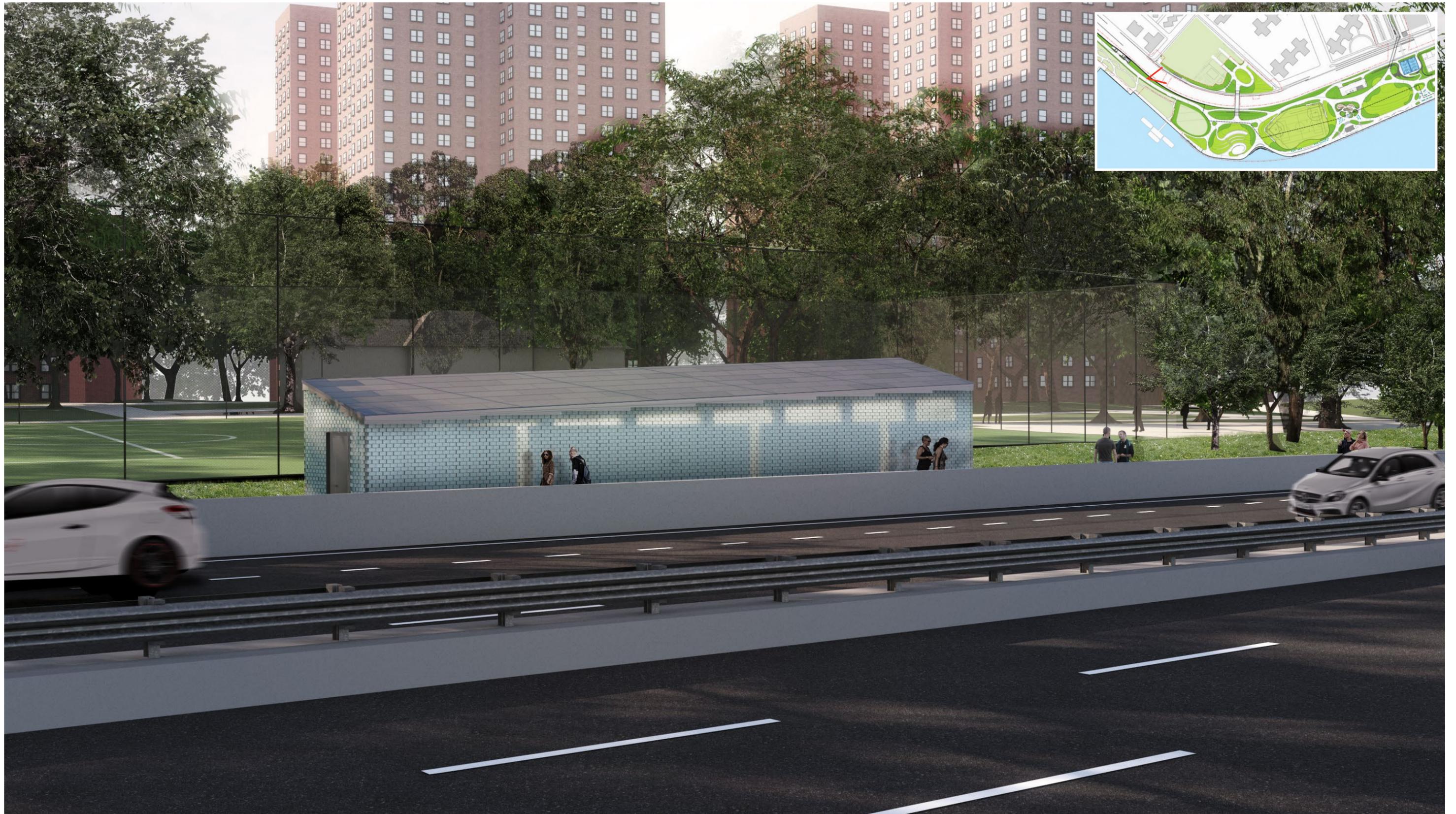


AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

SEPTEMBER 16, 2019

South Gate Building Preliminary Review 104

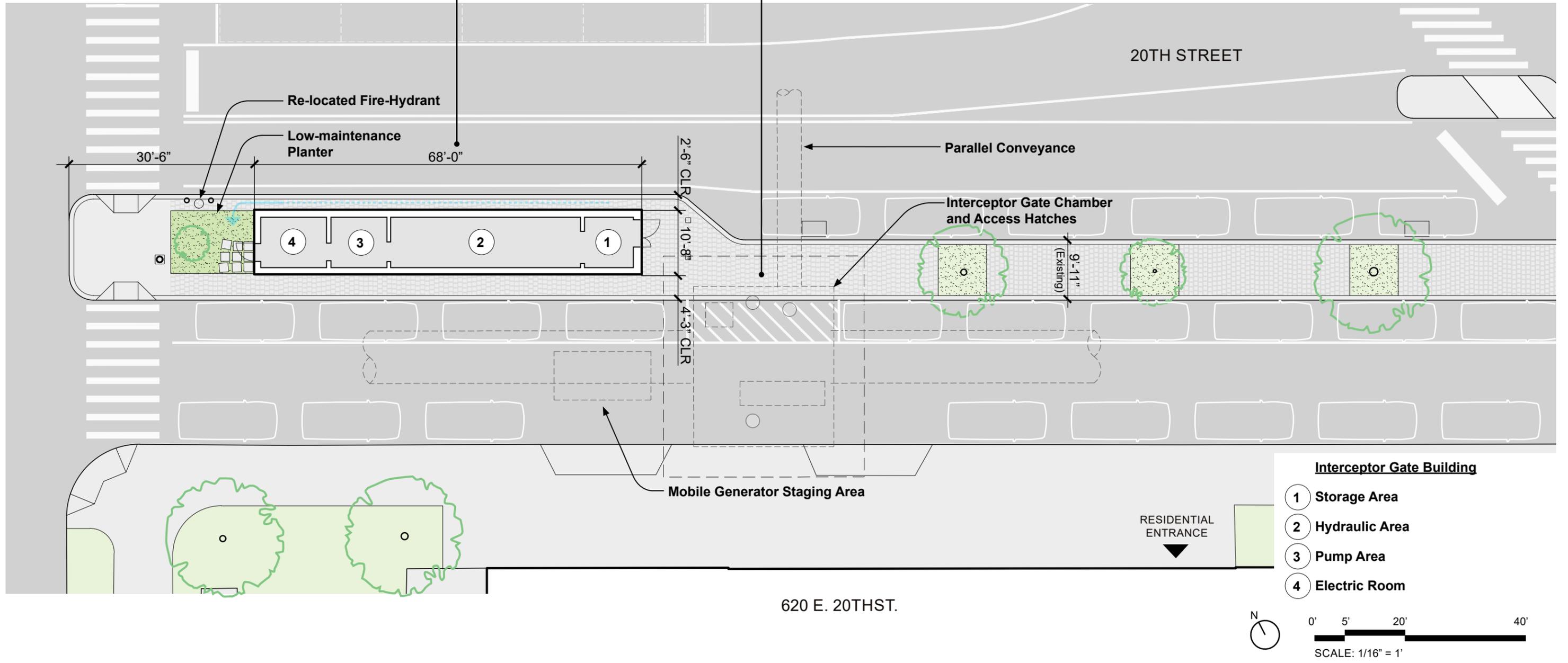


AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

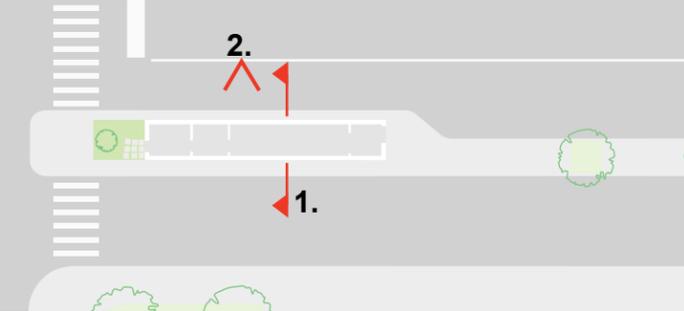
SEPTEMBER 16, 2019

South Gate Building View From Southwest 105



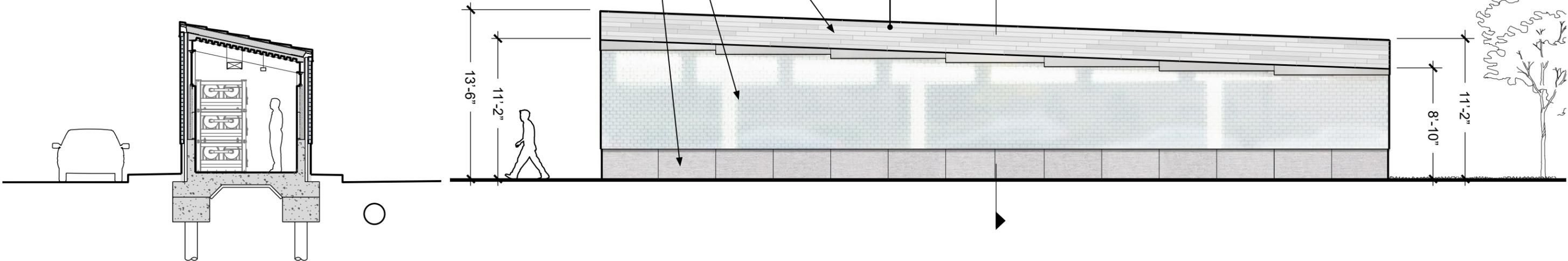
REVISION ITEM 2.4
 INCREASED BUILDING LENGTH TO
 ACCOMMODATE SELECTED GATE
 EQUIPMENT AND BARRIER STORAGE

REVISION ITEM 2.3
 BUILDING LOCATION,
 CHAMBER LOCATION, AND
 CURB ALIGNMENT ADJUSTED
 BUILDING LOCATION
 ADJUSTED TO MINIMIZE
 IMPACT TO EXISTING STREET
 PARKING.



REVISION ITEM 2.5
 BUILDING MASSING SIMPLIFIED TO A
 'MONOSLOPE' PROFILE.

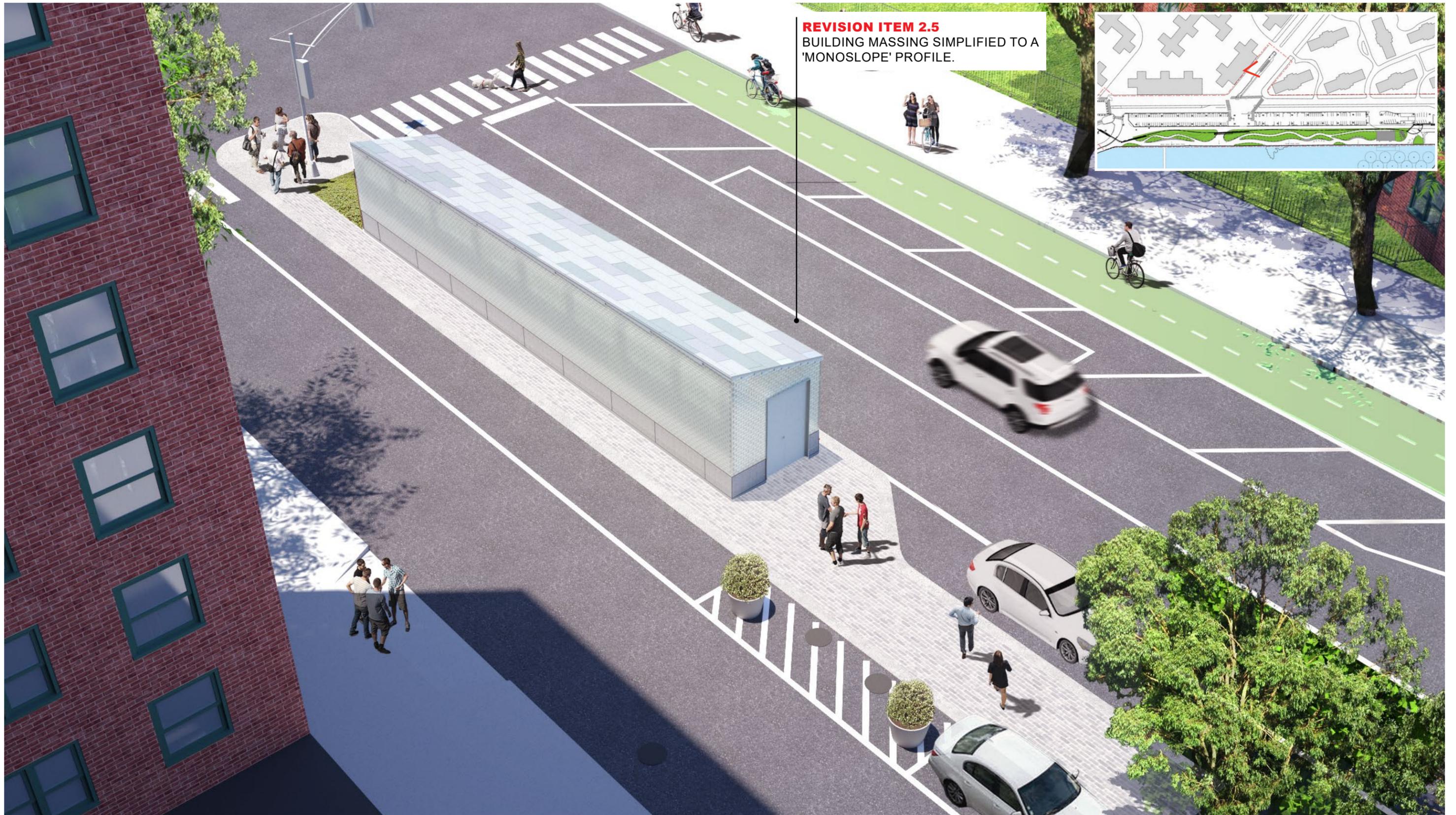
Flat-Lock Metal Tile
 Solid Glass Brick
 Granite Base



1. CROSS SECTION

2. NORTH ELEVATION





REVISION ITEM 2.5
 BUILDING MASSING SIMPLIFIED TO A
 'MONOSLOPE' PROFILE.



AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
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SEPTEMBER 16, 2019

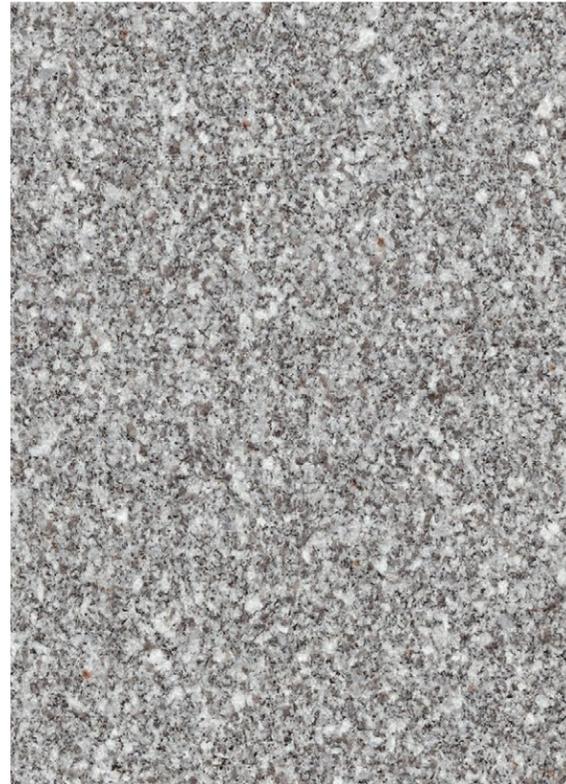
North Gate Building View From Northwest 109



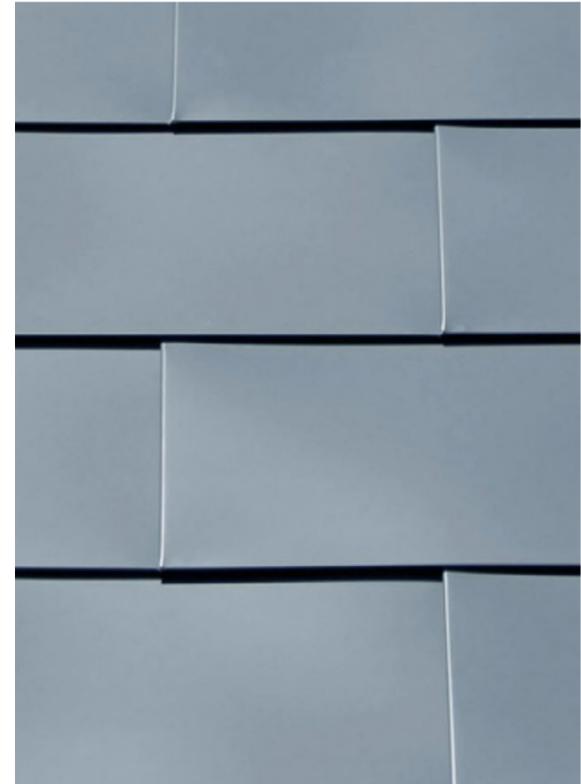
STAINLESS STEEL
Doors & Trim Elements



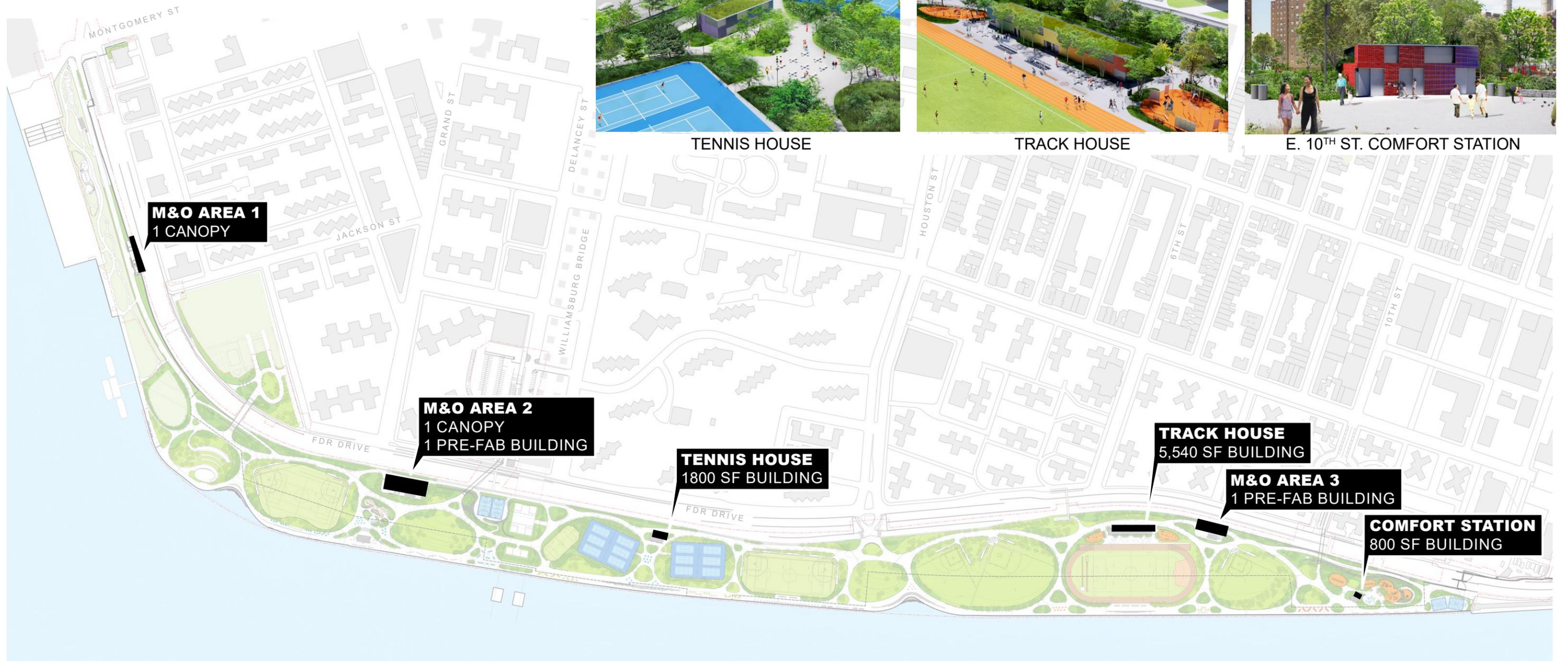
SOLID GLASS BRICK
Facade
(Pictured: St. Ann's Warehouse, Brooklyn, NY)

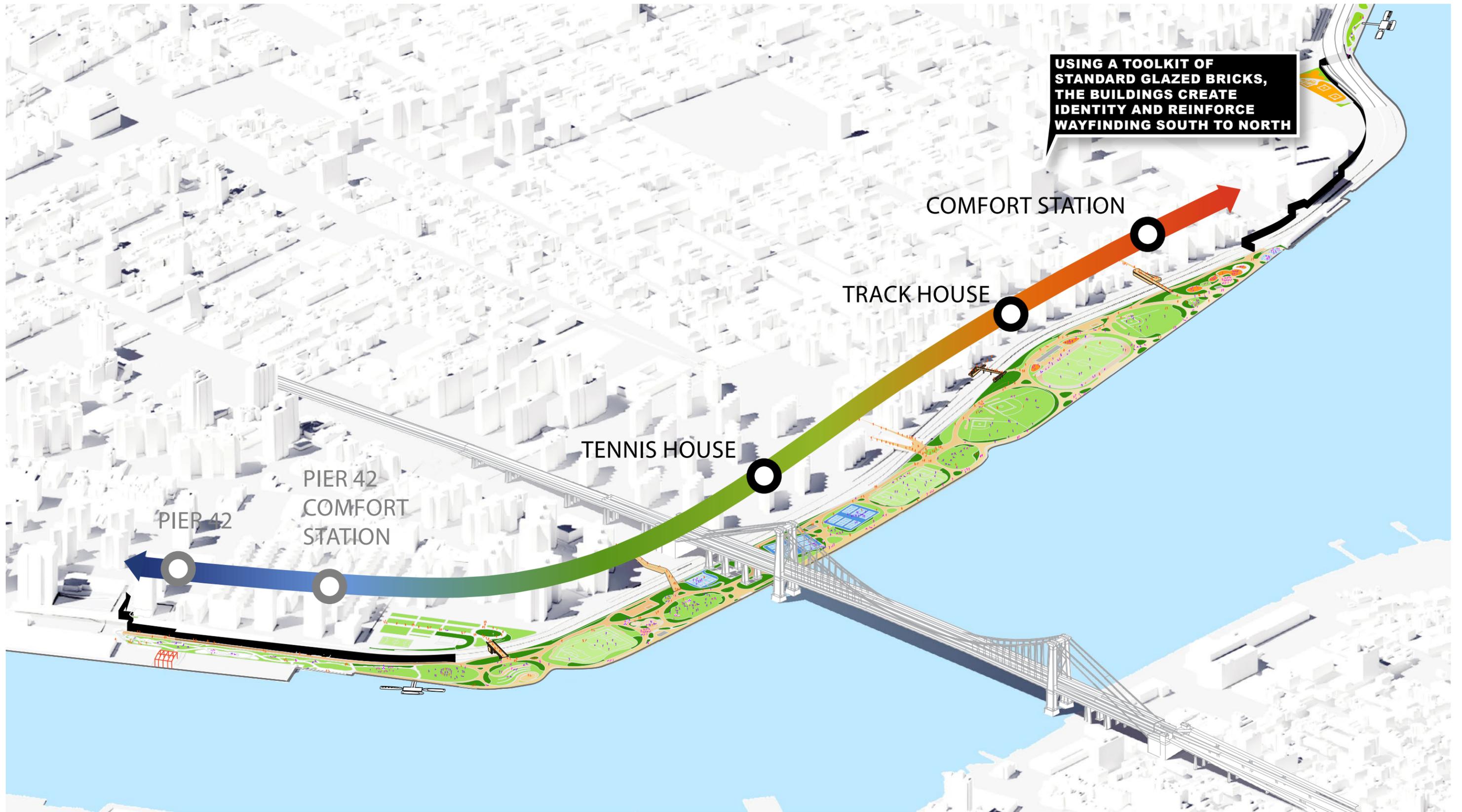


BARRE GREY GRANITE
Stone Base



FLAT-LOCK METAL TILE
Sloped Roof Assembly





USING A TOOLKIT OF STANDARD GLAZED BRICKS, THE BUILDINGS CREATE IDENTITY AND REINFORCE WAYFINDING SOUTH TO NORTH

COMFORT STATION

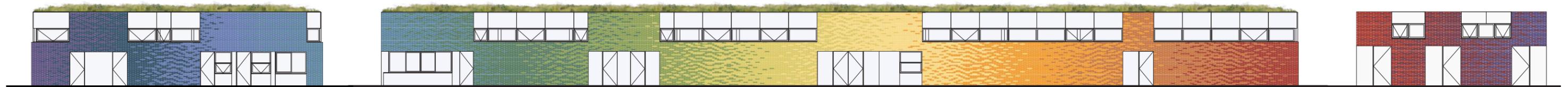
TRACK HOUSE

TENNIS HOUSE

PIER 42 COMFORT STATION

PIER 42

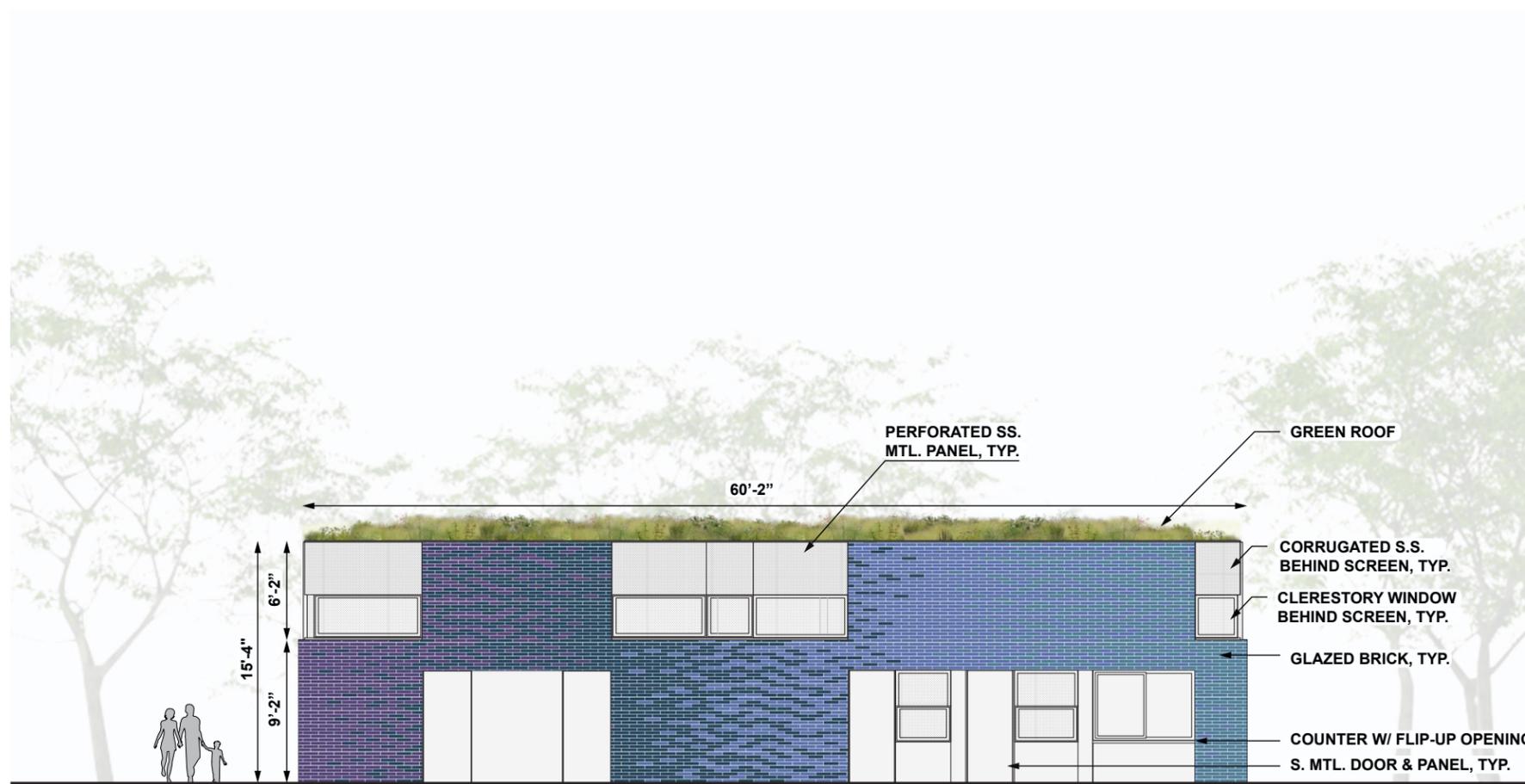
TOGETHER, THE PARK BUILDINGS ACT AS A FAMILY UTILIZING SIMILAR DESIGN DETAILS AND VOCABULARY



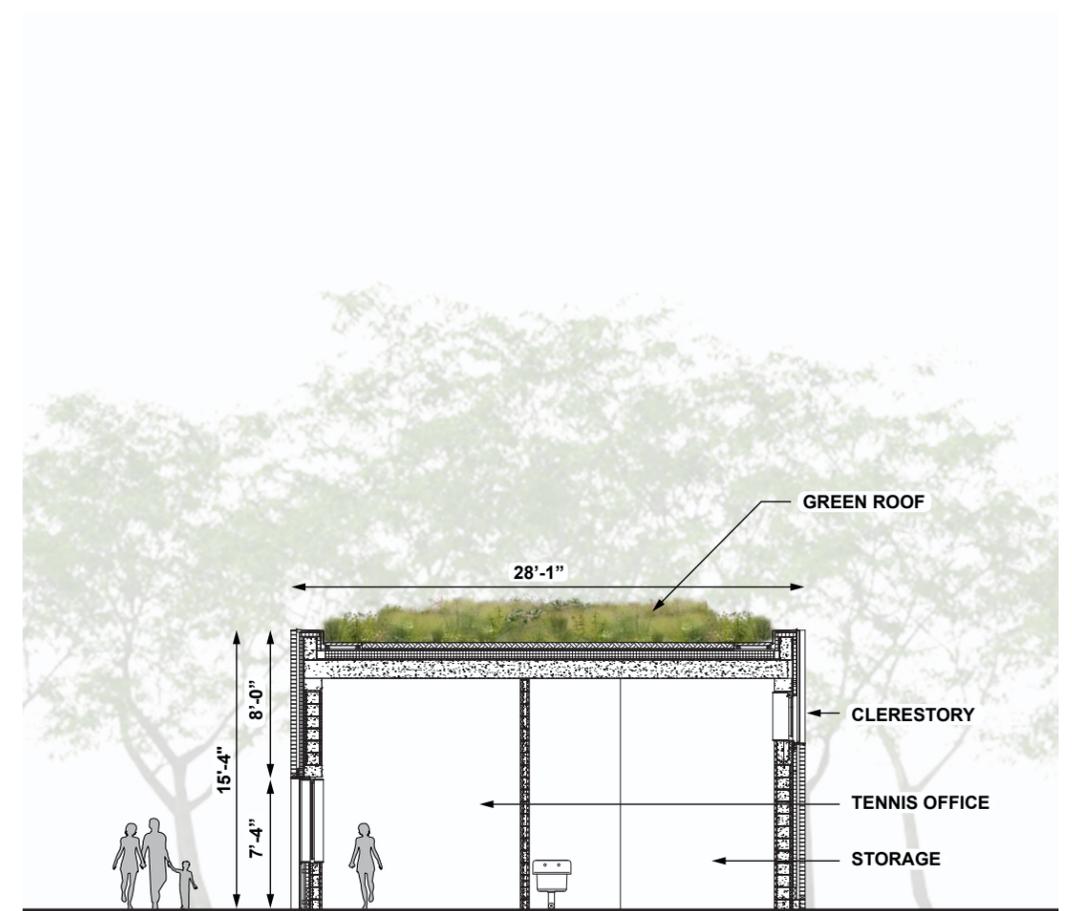
TENNIS HOUSE

TRACK HOUSE

10TH ST COMFORT STATION



Tennis House Elevation



Tennis House Section



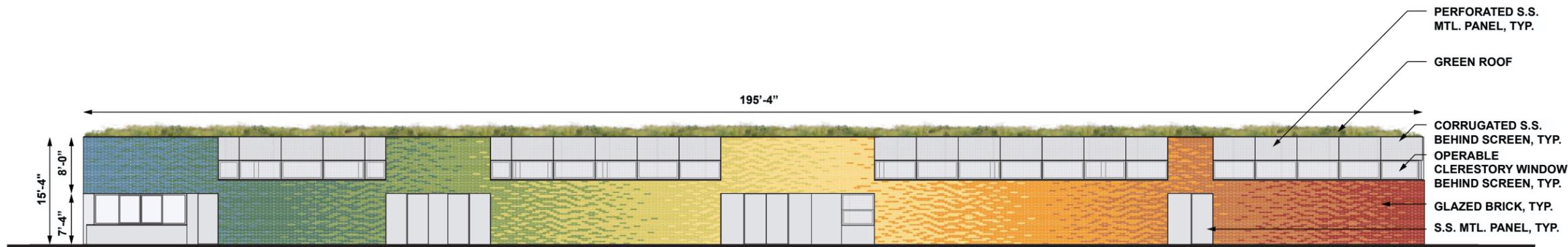


AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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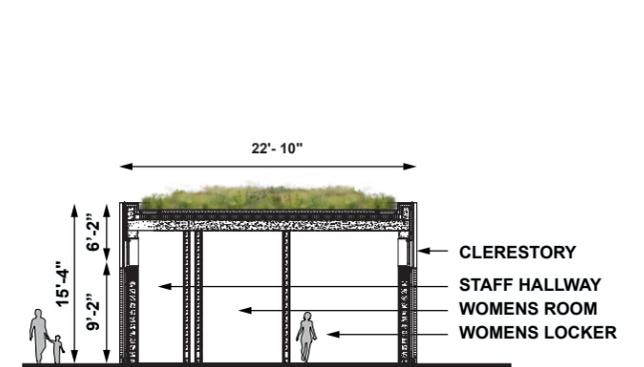
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EAST SIDE COASTAL
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SEPTEMBER 16, 2019

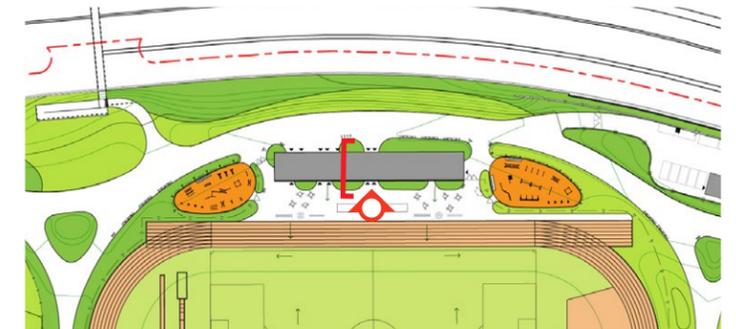
**Tennis House
Park View 115**



Track House Elevation



Track House Section



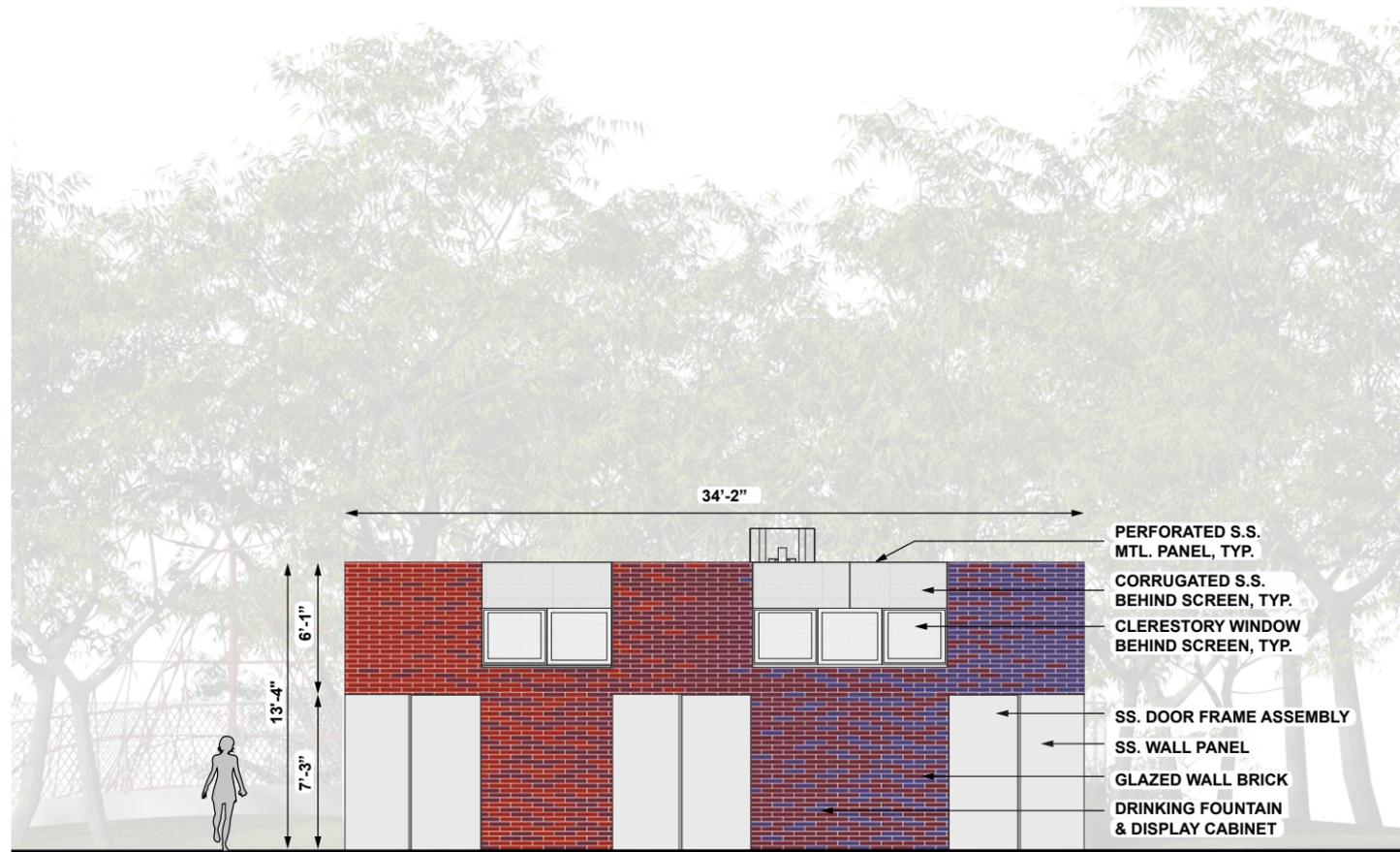


AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
RESILIENCY PROJECT**

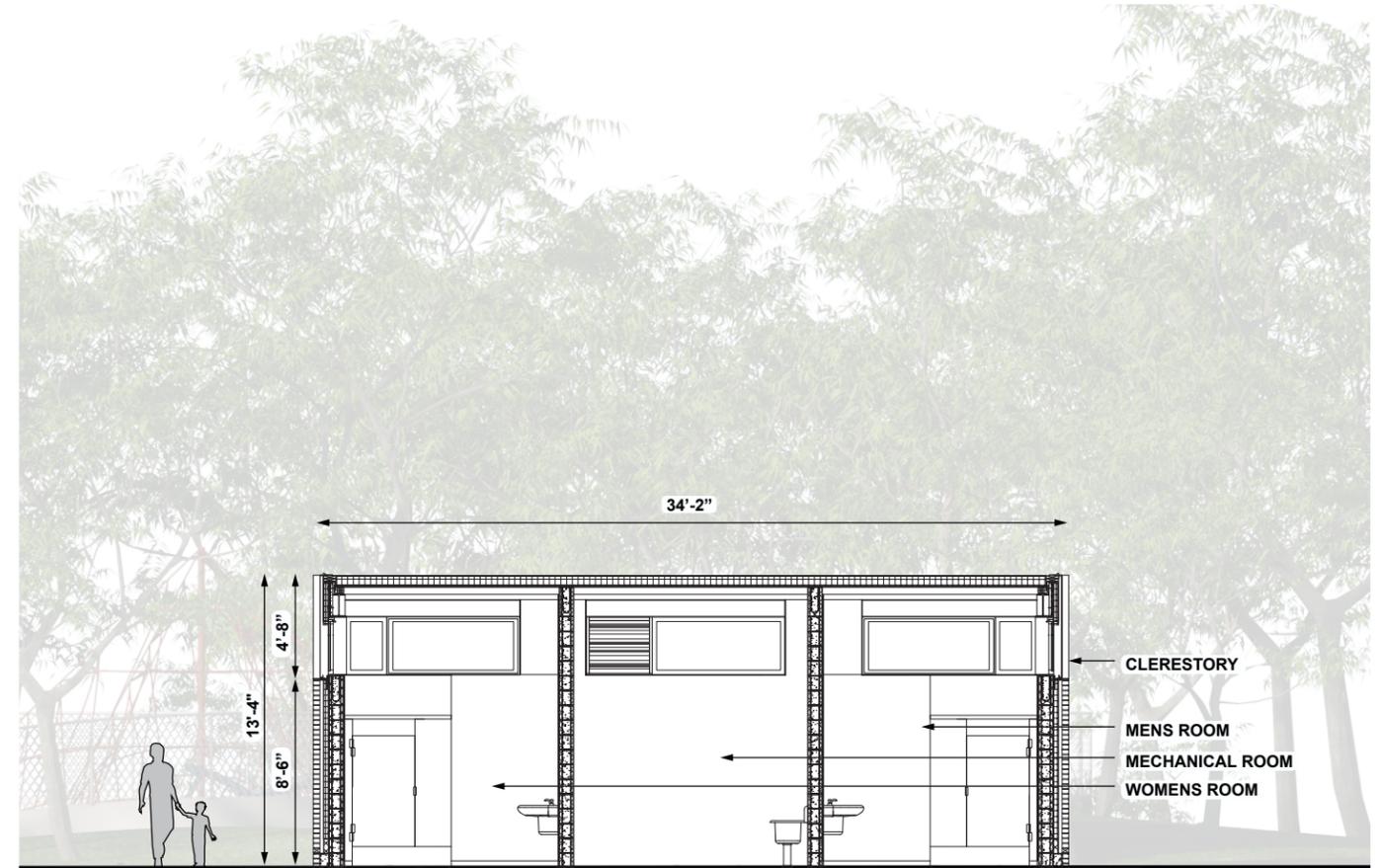
SEPTEMBER 16, 2019

**Track House
Park View 117**



- PERFORATED S.S. MTL. PANEL, TYP.
- CORRUGATED S.S. BEHIND SCREEN, TYP.
- CLERESTORY WINDOW BEHIND SCREEN, TYP.
- SS. DOOR FRAME ASSEMBLY
- SS. WALL PANEL
- GLAZED WALL BRICK
- DRINKING FOUNTAIN & DISPLAY CABINET

E. 10th St. Comfort Station Elevation



- CLERESTORY
- MENS ROOM
- MECHANICAL ROOM
- WOMENS ROOM

E. 10th St. Comfort Station Section



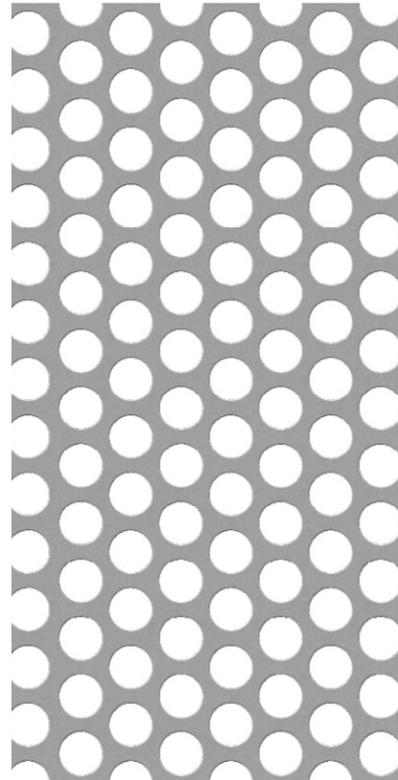


AKRF-KSE, JV	BJARKE INGELS GROUP	MATHEWS NIELSEN LANDSCAPE ARCHITECTS, P.C.	ONE ARCHITECTURE AND URBANISM	NEW YORK CITY DEPT. OF DESIGN AND CONSTRUCTION	NEW YORK CITY DEPT. OF PARKS AND RECREATION	NEW YORK CITY DEPT. OF TRANSPORTATION	NEW YORK CITY DEPT. OF ENVIRONMENTAL PROTECTION	NEW YORK CITY MAYOR'S OFFICE OF RESILIENCY
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**PDC PRELIMINARY REVIEW
EAST SIDE COASTAL
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SEPTEMBER 16, 2019

**10th Street Comfort Station
Preliminary Review 119**



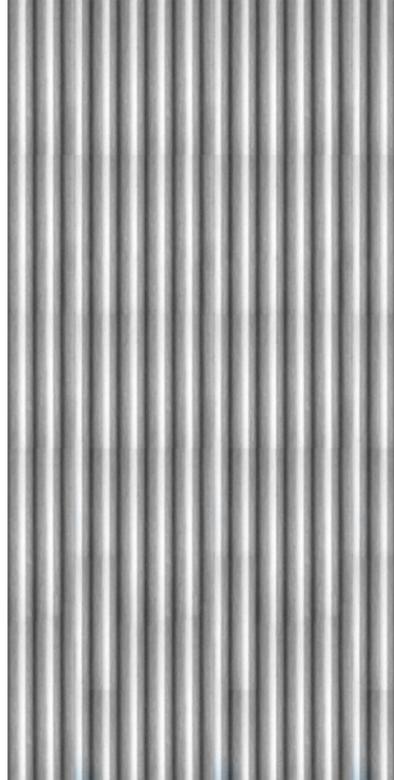
Stainless Steel Perforated
Clerestory Screen



Stainless Steel Embossed
Doors and Fixed Panels



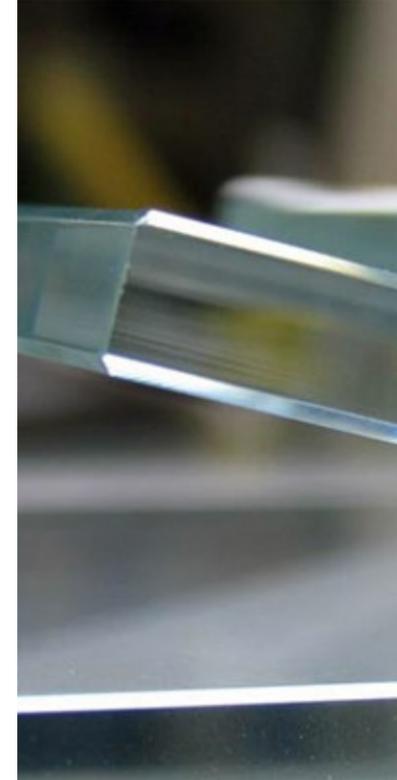
Stainless Steel
Facade Openings Trim



Stainless Steel Corrugated
Insulation Cover behind Clerestory Screen



Glazed Brick Various Colors
Building Facade



Glass
Building Windows



Green Roof
NYC Parks Sustainability Initiative

