East Side Coastal Resiliency Preliminary Design Update

Community Board 6 Review

Land Use Committee: March 26, 2018
Full Board: April 11, 2018
PRESENTATION CONTENTS

A. SITE STRATEGY

B. SITE DESIGN

C. SCHEDULE AND NEXT STEPS
PRESENTATION CONTENTS

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B. SITE DESIGN

C. SCHEDULE AND NEXT STEPS
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COMMUNITY BOARD PROJECT UPDATE
EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 26, 2018

Site Strategy Location
• Provide a reliable, integrated flood protection system; minimize use of closure structures

• Improve waterfront open spaces and access

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

• Achieve implementation milestones and project funding allocations as established by HUD
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EAST SIDE COASTAL RESILIENCY PROJECT
MARCH 26, 2018
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Iterative Design Process
<table>
<thead>
<tr>
<th>Elevation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>+16.00'</td>
<td>FEMA 100-Year Flood + Freeboard/Wave Requirement (High End 2050s Projection)</td>
</tr>
<tr>
<td>+16.50'</td>
<td>ESCR Design Storm Exceedance Contingency (2050s)</td>
</tr>
<tr>
<td>+13.50'</td>
<td>FEMA 100-Year Flood + Freeboard/Wave Requirement (Current)</td>
</tr>
<tr>
<td>+10.90'</td>
<td>FEMA 100-Year Flood Stillwater (Current)</td>
</tr>
<tr>
<td>+8.00'</td>
<td>Approximate Grade at Esplanade (Current)</td>
</tr>
<tr>
<td>+2.28'</td>
<td>Mean Higher High Water (MHHW) (Current)</td>
</tr>
</tbody>
</table>

NOTE: All elevations shown in NAVD88
The parallel conveyance system will be activated simultaneously with the flood protection system during a large storm event.
Site Strategy
Park Access

STUYVESANT COVE PARK
- ELEVATED FDR
- FLOOD GATE
- CITY
- CROSS UNDER
- PARK
- RIVER

EAST RIVER PARK
- BRIDGE OVER
- RAISE PARK
- CITY
- AT-GRADE FDR
- PARK
- RIVER

STREET-LEVEL CONNECTIONS AT AVENUE C, 20TH STREET & 23RD STREET

10TH STREET BRIDGE REPLACED

EXISTING 6TH STREET BRIDGE TO REMAIN

EXISTING HOUSTON STREET OVERPASS TO REMAIN

DELANCEY STREET BRIDGE REPLACED

EXISTING CHERRY STREET BRIDGE TO REMAIN

NEW DIRECT PATH TO WATERFRONT AT HOUSTON STREET

LEGEND
- Floodwall
- Earthen Levee
- FDR Drive at-grade
- FDR Drive elevated
- Park Access (Bridge)
- Park Access (At Grade)
LOW WALL + HIGH FENCE

HIGH WALL + LOW FENCE

RETAINING WALL + FENCE (AT LEVEE)

NO FENCE

Flood Protection
Wall and Fence Height
INFORMATION
The wall texture expresses each foot of wall height. At select locations, such as entry locations and bridge abutments, elevation letterforms are recessed into the wall face.

ELEVATION MARKER
The floodwall finish responds to the overall project intent by registering elevation markers. Water Level Meter, Chicago, IL
Flood Protection

Typical Swing Gate Design

- SEAL PLATE
- LATCH
- SEAL GASKET
- NOTCH FOR LATCH
- HINGE
WARNING GRAPHICS AT ALL ROAD CROSSINGS

Flood Protection
Typical Swing Gate Design
TOP OF WALL 16.5
BOTTOM OF WALL 7.0
COMMUNITY BOARD PROJECT UPDATES

A. SITE STRATEGY

B. SITE DESIGN

C. SCHEDULE & NEXT STEPS
Site Plan - Project Area 2
Concept Review Design
LEGEND
- Landscape Area
- Artificial Turf
- Primary Paving
- Secondary Paving
- Playground Safety Surface
- Sports Courts (Painted Asphalt)

PA2 Site Design
Paving Materials
NO TREES, SHRUBS, OR WOODY VEGETATION IS ALLOWED WITHIN THE "VEGETATION-FREE" ZONE

PLANTING RESTRICTIONS KEEP FLOOD PROTECTION INTACT AND VISIBLE FOR INSPECTION

LEGEND
- Floodwall
- Floodwall Protection Planting Zone

PERENNIALS ADD COLOR, TEXTURE & SEASONAL INTEREST

LOW CREEPING FESCUES PROVIDE DENSE COVERAGE TO PREVENT EROSION

TALL GRASS ROOTS HOLD SOILS, PROVIDE TEXTURE & SEASONAL INTEREST
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PA2 Site Design
Planting - Canopy

LEGEND

- Floodwall
- Proposed Tree Canopy
- Existing Tree Canopy - Remaining

E 20TH ST
E 23RD ST
E 25TH ST
AVENUE C
ASURE LEVY
PLAYGROUND
MURPHY
BROTHERS
PLAYGROUND

PRESERVING EXISTING TREES
• 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
• Plant rails at planting beds guide circulation
• Maintenance: Trees, garden beds

• Location: Paths and thresholds to frame views and buffer spaces
• Understory trees and shrub layer frame views and guide circulation forward
• Maintenance: Trees, shrubs
FDR Drive Gate
Existing Conditions

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FDR Drive Gate - Open
Preliminary Review
FLOODWALL CROSSES FDR DRIVE

FLOODWALL FOLLOWS EDGE OF CON ED AND MURPHY BROTHERS PLAYGROUND
Murphy Brothers Playground Aerial View (FDR Drive Off)
Stuyvesant Cove South Entry
Preliminary Review

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Stuyvesant Cove Park
Existing Conditions
Stuyvesant Cove Park
Preliminary Review

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MARCH 26, 2018
20TH ST - GATE OPEN

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20th St - Gates
Preliminary Review

COMPUTER GENERATED Render of 20th Street Gate Open
AVENUE C & 23RD ST. CROSSING - GATE OPEN

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Avenue C & 23rd Street
Preliminary Review
Asser Levy Playground
Aerial: Preliminary Review

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COMMUNITY BOARD PROJECT UPDATES

A. SITE STRATEGY

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C. SCHEDULE & NEXT STEPS
CURRENT SCHEDULE

DESIGN PROCESS

CONCEPT DESIGN PHASE

PRELIMINARY DESIGN PHASE

FINAL DESIGN PHASE

ENVIRONMENTAL / EIS

DRAFT STATEMENT OF WORK

DRAFT EIS REPORT

PUBLIC REVIEWS & FINAL EIS REPORT

ULURP

PREPARATION & SUBMISSION

COMMUNITY & TECHNICAL REVIEWS

COMMUNITY ENGAGEMENT

EAST SIDE COASTAL RESILIENCY PROJECT

WINTER 2015/16

WINTER 2016/17

WINTER 2017/18

SPRING 2019

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COMMUNITY BOARD PROJECT UPDATE

EAST SIDE COASTAL RESILIENCY PROJECT

MARCH 26, 2018
ANTICIPATED 2018 SCHEDULE

MASS MAILING 1 (40% DESIGN) FEBRUARY 2018
CB3 / CB6 MEETINGS MARCH / APRIL 2018
COMMUNITY ENGAGEMENT MEETINGS APRIL / MAY 2018
PDC PRESENTATION APRIL 2018
DRAFT EIS FINAL SCOPE OF WORK ISSUED JUNE 2018
DRAFT EIS PUBLISHED JULY 2018
ULURP CERTIFICATION JULY 2018
COMMUNITY BOARD REVIEW AUGUST / SEPT 2018
BORO PRESIDENT / BORO BOARD REVIEW - OCT 2018
PDC FINAL DESIGN PRESENTATION AUGUST 2018
CB3 / CB6 MEETINGS JUNE / JULY 2018

DESIGN
PRELIMINARY DESIGN
ENVIRONMENTAL REVIEW
PREPARATION & SUBMISSION
FINAL DESIGN
FINAL REPORTS
REVIEWS

WINTER 2018 SPRING 2018 SUMMER 2018
ANTICIPATED 2018-2019 SCHEDULE

DESIGN

FINAL DESIGN & CONTRACTING PROCESS
- CPC ULURP / DRAFT EIS PUBLIC HEARING - OCTOBER 2018
- FINAL EIS PUBLISHED - DECEMBER 2018
- RECORD OF DECISION / FINDINGS - FEBRUARY 2019

ENVIRONMENTAL

ENVIRONMENTAL REVIEW
- CPC ULURP / DRAFT EIS PUBLIC HEARING - OCTOBER 2018
- CITY PLANNING COMMISSION REVIEW - NOVEMBER / DECEMBER 2018
- CITY COUNCIL REVIEW - DECEMBER 2018 / EARLY FEBRUARY 2019

ULURP

COMMUNITY & TECHNICAL REVIEWS
- FALL 2018
- WINTER 2019

GROUND BREAKING SPRING 2019
UPCOMING MEETINGS

• PDC - Preliminary Design Review
  • CB3 Full Board Meeting   (3/27/18)
  • CB6 Full Board Meeting   (4/11/18)

• Community Engagement Meetings (TBD - late April / May)
  • Study Area 1 South (Montgomery St to Houston St)
  • Study Area 1 North (Houston St to 14th St)
  • Study Area 2 (14th St to 25th St)
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