RESILIENT BRIDGEPORT
Public Information Meeting
April 28, 2021
Housekeeping Items

— This meeting is being recorded
  — A recording of this meeting will be available on www.resilientbridgeport.com April 30th

— All attendees are muted

— Please enter any questions through the Q&A button at the bottom of your screen
  — Questions will be addressed at the end of the presentation
Agenda

— Project Terms & Acronyms
— Program Overview
  — Meet the Team
  — Program Overview
— Design Update
  — Rebuild By Design
  — Flood Risk Reduction Project
— Questions and Answers
Glossary of Terms

Resilient Bridgeport

*Resilient Bridgeport is a resilience strategy comprised of two pilot projects (Rebuild by Design & Flood Risk Reduction Project) focused on protecting homes, businesses and infrastructure in the South End of Bridgeport from chronic and acute flooding in order to foster long-term prosperity in the neighborhood.*

Head of Park

*The area of Seaside Park bounded by University Avenue, Broad Street, Main Street and the shorefront.*

Resilience Gateway

*Proposed entrance to Seaside Park from the terminated end of Main Street (at the northern intersection of Main Street and University Ave.)*
Acronyms

CTDOT – Connecticut Department of Transportation
CTDEEP – Connecticut Department of Energy and Environmental Protection
CTDOH – Connecticut Department of Housing
FEIS – Final Environmental Impact Statement
FRRP – Flood Risk Reduction Project (NDR - National Disaster Resilience)
HUD – Department Housing and Urban Development
NEPA – National Environmental Policy Act
RBD – Rebuild By Design
ROD – Record of Decision
ROW – Right of Way
SHPO – State Historic Preservation Office
WPCA – Water Pollution Control Authority
Program Overview
Resilient Bridgeport Team

CT Department of Housing (DOH)
  — Grant Recipient and Owner/Program Manager

CT Department of Transportation (CTDOT)
  — Design Administration and Right Of Way Activities

CT Department of Energy and Environmental Protection (CTDEEP)
  — Flood Control Infrastructure Ownership and Maintenance

WSP USA Inc.
  — Prime Design Consultant
Program Overview

— Improve conditions in Bridgeport’s South End Neighborhood

— General components: flood barriers, pump stations, elevated roadways, a stormwater channel and a Resilience Center

— Federal Grant Funding through HUD
  — Rebuild by Design $10M
  — National Disaster Resilience (FRRP) $46M
Program Status

— NEPA (EIS/ROD) & Preliminary Design are Complete
— Final Design Initiated for Both Projects
— Programmatic Agreement with SHPO
— Documentation / Mitigation of Seaside Park Impacts
— Federal Grant Expenditure Deadline: September 30, 2023
Rebuild by Design
$10M
“...pilot project must reduce risk to public housing in the City’s South End...”
• Stormwater management
• Elevated street for dry egress

Flood Risk Reduction Project
$46M
• Coastal Flood Defense System
• Resilience Center
• Energy Study
• Floodplain Design Guidelines

Orange line shows Study Area for Environmental Impact Statement
It is NOT the flood barrier alignment
Design Update
Rebuild By Design – Stormwater Park

- Pump Enclosure
- Force Main
- Outfall Connection
- Green Street
- Gravity Storm Drain
- New Stormwater Park
- Raised Dry Egress Access Road
- Ridge Ave
- Green Street
- Iranistan Ave
- South Ave
- Johnson St. Extension

North
Rebuild by Design

— Three Major Components
  — Johnson Street Extension
  — Stormwater Park
  — Pump Station

— Semi-Final Design in Progress

— Continuing Coordination with the City of Bridgeport, Bridgeport WPCA and Bridgeport Housing Authority
Rebuild by Design
Flood Risk Reduction Project

— Major Components
  — Coastal Flood Defense System
  — Pump Station
  — Force Main
  — Resiliency Gateway
  — Park Renovations/Open Channel Discharge

— 60% Final Design Submitted
FRRP Cross Sections – Earthen Berm

- Protected Side
- Flood Side
- Earthen Embankment
- Existing Grade
- Coastal Flood Defense System
- Sheet Pile

- NGVD 14'
- 12.0'
- 5.0'
- 3.1 MAX
- Depth = 40' ±
- 42'
- Varies
- NGVD 9'±
- 5.0' Varies
FRRP Alignment

— Broad Street
  — Ramp Broad Street up to intersection with University Avenue at elevation 15.5 feet

— Main Street
  — Terminate southbound vehicular traffic north of University Avenue
  — Ramp south end of Main Street up to University Avenue at elevation 9.5 feet (15.5 feet above sea level)

— University Avenue
  — Terminate westbound traffic
  — Elevate portion between Main Street and Broad Street by approximately 9.5 feet.
Seaside Park

— Seaside Park Renovation between Broad and Main Streets
  — Public Plaza (Belvedere) South of University Avenue
  — Regrading and plantings
  — Open Channel Discharge

— Benefits
  — Improve Current Conditions
  — Increase Public Use
  — Improve Conditions for Trees and Anticipates Sea-Level Rise
Head of Park
Resilience Gateway
Seaside Park Belvedere
Pump Station

— Located on Henry Street
— Submersible Pumps
— Sized for 100-year Storm Event
— Will Help Alleviate “Nuisance” Floods
— Will Include Educational Opportunities
— Discharge to the Open Channel
Head of Park - Pump Station Overland Discharge
Head of Park – Pump Station Overland Discharge
Pump Station

Southeast View

Path from Resilience Gateway
Pump Station

South Facade

Looking West through Seaside Park
Gate Locations
Flood Gates – Roller Gate

- Atlantic and Ferry Access Rd
- Easily Deployed
Flood Gates – Stop Log Gate

- Broad and Main Streets
- Private Properties
- Installed in Advance of Coastal Event
1. Construct Berm west of Broad Street

*Broad and Main Street remain open to traffic*
1. Close Broad Street and University Ave between Broad and Main Streets to traffic
2. Construct elevated Broad Street and University Avenue
   *Main Street open to traffic*
Preliminary Staging Plan - Stage 3

1. Open Broad Street to traffic
2. Close Main Street to traffic
3. Construct Main Street and Resilience Gateway
4. Open University Avenue and Main Street south
FRRP Project Schedule

60% Semi-Final Design
Spring 2021

Permit Applications
Summer 2021

100% Final Design
Winter 2021

Permits Issued
Late 2021/Early 2022

Construction Start
Spring 2022

Construction Completion
Spring 2024

90% Semi-Final Design
Public Meeting
Fall 2021
Stay Involved

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Questions?

Please enter questions in the Q&A window