MEETING AGENDA

1. Overview and Accomplishments
2. Design Team Introduction
3. Reviewing Purpose and Need
4. Field Investigations
5. Design Principles
6. Engagement Schedule and Strategies
7. Breakout Activity
REBUILD BY DESIGN HUDSON RIVER

New Jersey Department of Environmental Protection
Engineering and Construction
Assistant Commissioner Dave Rosenblatt
Bureau of Flood Resilience
REBUILD BY DESIGN VISION

RESIST

DELAY

STORE

DISCHARGE
A LOOK BACK
2015 - 2017

NOI
JUN 2015
PURPOSE AND NEED
AUG 2015
SCOPING
SEP 2015
SCREENING CRITERIA / METRICS
OCT 2015
CONCEPT SCREENING
FEB 2016
ALTERNATIVE ANALYSIS
JUL 2016
DRAFT EIS
FEB/ APR 2017
FINAL EIS
JUL 2017
ROD
SEP 2017
AUTHORIZATION OF GRANT FUNDS
OCT 2017

NEPA PROCESS

FEASIBILITY ASSESSMENT

PUBLIC INVOLVEMENT

5
PUBLIC MEETING 01
REBUILD BY DESIGN - HUDSON RIVER
A LOOK FORWARD

- RBD (Rebuild by Design) - 1 Year: June 2014
- Feasibility & NEPA Process - 2 Years: June 2015
- Final Design of Preferred Alternative - 2 Years: September 2017
- Construction and Project Closeout - 3 Years: September 2019

Steps:
- SEP 2017 Record of Decision
- SEP 2019
- SEP 2022
AREAS OF ONGOING COORDINATION

• Executive Steering Committee
• Citizen Advisory Group
• Operations and Maintenance
• FEMA Accreditation
• Urban Design and Amenities
• Section 106 Programmatic Agreement
### ISSUES OF KNOWN CONCERN

#### SUMMARY

<table>
<thead>
<tr>
<th>CHALLENGES</th>
<th>STATUS</th>
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<tbody>
<tr>
<td>• Schedule</td>
<td>Design Phase - Complete 2019</td>
</tr>
<tr>
<td></td>
<td>Construction - Complete Sept. 2022</td>
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<tr>
<td>• Budget</td>
<td>Under review during design phase</td>
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<tr>
<td></td>
<td>Value Engineering will be required</td>
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<tr>
<td>• FEMA Accreditation</td>
<td>Large number of gates</td>
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<tr>
<td></td>
<td>Subsurface conditions under investigation</td>
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<tr>
<td>• Southern Resist Alignment</td>
<td>A final decision has not yet been made</td>
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<tr>
<td>(Option 1 vs. Option 2)</td>
<td></td>
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<tr>
<td>• Operations &amp; Maintenance</td>
<td>Developing options, entity and long term financing</td>
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<tr>
<td>(O&amp;M)</td>
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## THE TEAM
WHO YOU WILL SEE TONIGHT FROM THE AECOM PROJECT TEAM

<table>
<thead>
<tr>
<th>Presenter</th>
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<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHRISTOPHER BENOSKY, PE, CFM</td>
<td>KAREN APPELL PE, CPESC</td>
<td>ERIC OLSEN</td>
<td>ADEL EBEID</td>
</tr>
<tr>
<td>Project Executive</td>
<td>Project Manager</td>
<td>Landscape Architecture/ Urban Design and Community Engagement</td>
<td>Community Engagement Facilitator</td>
</tr>
<tr>
<td>HEATHER MORGAN, RLA</td>
<td>CHRISTY CHENG</td>
<td>DANIEL SGRIZZI</td>
<td>MARC TUOZZOLO</td>
</tr>
<tr>
<td>Deputy Project Manager</td>
<td>Community Engagement</td>
<td>Landscape Architecture/ Urban Design</td>
<td>Project Specialist</td>
</tr>
</tbody>
</table>
TOPOGRAPHY
HISTORICAL CONTEXT

1844

PROJECT AREA BOUNDARY

HISTORIC COASTLINE

PRESENT DAY COASTLINE
HISTORICAL FLOODING
1844 FLOODPLAIN
100-YEAR FLOODPLAIN

PROJECT AREA BOUNDARY

JERSEY CITY

HOBOKEN

HUDSON RIVER

WEEHAWKEN

LONG SLIP CANAL

WEEHAWKEN COVE
HURRICANE SANDY
BREACH POINTS
PURPOSE AND NEED

COASTAL STORM SURGE

SYSTEMIC INTERIOR FLOODING
COMPREHENSIVE WATER MANAGEMENT STRATEGY
RESIST, DELAY, STORE, DISCHARGE

SOUTHWEST PARK EXPANSION
DSD TANKS
NORTHWEST RESILIENCY PARK
H5 PUMP STATION
RESIST - NORTH
RESIST - SOUTH
H1 PUMP STATION

LEGEND
RESIST ALIGNMENT
PROJECT AREA BOUNDARY
MUNICIPALITY BOUNDARY
HIGH LEVEL STORM SEWER SYSTEM
DSD PROJECTS
RESIST COMPONENTS

LEGEND
- RESIST ALIGNMENT
- PROJECT AREA BOUNDARY
- MUNICIPALITY BOUNDARY
- HIGH LEVEL STORM SEWER SYSTEM

JERSEY CITY
HOBOKEN
HUDSON RIVER
WEEHAWKEN
WEEHAWKEN COVE
LONG SLIP CANAL
RESIST - NORTH
RESIST - SOUTH
PROJECT AREA BOUNDARY
OPTION 1
OPTION 2
HIGH LEVEL STORM SEWER SYSTEM
RESIST COMPONENTS
FIELD INVESTIGATIONS

Survey - Topographic Dry Land Contour Mapping
Bathymetry - Underwater Contour Mapping
Survey + Bathymetry: LIDAR

Subsurface Investigations - Geotechnical and Environmental
Pile Load Testing - starting soon
FIELD INVESTIGATIONS
SUBSURFACE INVESTIGATION WORK - BORINGS AND TESTS

- 54 Geotechnical / Environmental borings to be competed (20 of 54 complete as of 4/30/18)
- 10 Permeability Tests to be completed (1 of 10 complete as of 4/30/18)
- 11 Cone Penetrometer Tests to be completed (0 of 11 complete as of 4/30/18)
- 2 Pump Tests to be completed (0 of 2 complete as of 4/30/18)
FIELD INVESTIGATIONS
FEEDBACK TO DESIGN

- Survey + Bathymetry work: December 2017 - November 2018
- Geotechnical + Environmental work: April 2018 - July 2018
- Pile Load Testing work: May 2018 - July 2018
DEVELOPMENT OF DESIGN
DEVELOPMENT OF DESIGN
FIELD INVESTIGATIONS INFORMING DESIGN DEVELOPMENT
DEVELOPMENT OF DESIGN
3 DESIGN PRINCIPLES INFORMING DESIGN DEVELOPMENT

FINAL EIS
PRIOR COMMUNITY INPUT
FEASIBILITY STUDY

FIELD INVESTIGATIONS

DESIGN DEVELOPMENT

3 DESIGN PRINCIPLES
DESIGN PRINCIPLES

FLOOD RISK REDUCTION

- MULTI-PURPOSE
- WOVEN INTO EXISTING URBAN FABRIC
- INTEGRATED INTO OPEN SPACE IMPROVEMENTS

ENGINEERING DESIGN PRINCIPLES

- Urban Design & Landscape Architecture Design Principles
DESIGN PRINCIPLES

MULTI-PURPOSE

FLOOD RISK REDUCTION

PUBLIC BENEFIT

MULTI-PURPOSE FLOOD RISK REDUCTION ALIGNMENT

ACTIVE PASCIVE

to Harborside Park
to Weehawken Cove

MULTI-PURPOSE ALIGNMENT

MULTI-PURPOSE ALIGNMENT

PUBLIC BENEFIT
DESIGN PRINCIPLES

- WOVEN INTO EXISTING URBAN FABRIC

[Diagram of building with green spaces and people walking]

[Images of people walking in an urban area]
DESIGN PRINCIPLES

INTEGRATED INTO OPEN SPACE IMPROVEMENTS
DEVELOPMENT OF DESIGN
COMMUNITY ENGAGEMENT INFORMING DESIGN DEVELOPMENT

FINAL EIS
PRIOR COMMUNITY INPUT
FEASIBILITY STUDY

FIELD INVESTIGATIONS

3 DESIGN PRINCIPLES

DESIGN DEVELOPMENT

COMMUNITY INPUT DURING DESIGN PHASE
DEVELOPMENT OF DESIGN
COMMUNITY ENGAGEMENT INFORMING DESIGN DEVELOPMENT

- FINAL EIS
- PRIOR COMMUNITY INPUT
- FEASIBILITY STUDY

3 DESIGN PRINCIPLES

FIELD INVESTIGATIONS

DESIGN DEVELOPMENT

COMMUNITY INPUT DURING DESIGN PHASE

FINAL DESIGN DELIVERED

CONSTRUCTION

COMMUNITY OUTREACH DURING CONSTRUCTION PHASE

COMPLETION
• Public meeting materials will be posted to the web, as well as project updates.
• Video recordings of public meetings will be posted to the web for those who can’t attend.
• Working focus group meeting periods will compliment the cadence of meetings above, and will serve as a way to engage with the public and specific identified special interest groups on an as need basis throughout the overall engagement process.

**Meeting dates shown on graphic schedules are approximate and subject to change to best reflect and meet project needs. See NJDEP website for formal meeting date confirmations and announcements.
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ENGAGEMENT SCHEDULE + STRATEGIES
CITIZEN ADVISORY GROUP MEETINGS (CAG)

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ENGAGEMENT SCHEDULE + STRATEGIES
DESIGN ZONE WORKSHOPS
ENGAGEMENT SCHEDULE + STRATEGIES

DESIGN ZONES

DESIGN ZONE 1: WEEHAWKEN TIE-IN

DESIGN ZONE 2: COVE PARK

DESIGN ZONE 3: WASHINGTON STREET ALLEYWAY

DESIGN ZONE 4: OBSERVER HIGHWAY

DESIGN ZONE 5: JERSEY CITY TIE-IN
**Meeting dates shown on graphic schedules are approximate and subject to change to best reflect and meet project needs. See NJDEP website for formal meeting date confirmations and announcements.**
INFORMING FUTURE ENGAGEMENT
LOOKING TOWARDS DESIGN ZONE WORKSHOPS

Input from today’s activity will guide discussions in the upcoming Design Zone Workshops on how to best utilize the previously defined tools/toolkit, along with additional strategies identified as appropriate, to design the urban spaces and amenities along the alignment based on the qualities identified in the activity as desirable for your community.
ENGAGEMENT TODAY
STICKERS - RECEIVED AT CHECK IN

They receive a total of (15) stickers to be used wisely across the (5) boards.
ENGAGEMENT TODAY
5 TYPES OF URBAN SPACES FOR INPUT

ALLEYWAY
SIDEWALK
COVE PARK
URBAN STREET
GREEN CORRIDOR

DESIGN ZONE 3
DESIGN ZONES 3 & 4
DESIGN ZONE 2
DESIGN ZONE 4
DESIGN ZONE 1 & 5

5 types of urban spaces identify the nature of existing spaces along the Resist alignment system.
ENGAGEMENT TODAY
COMPARISONS - WHAT DO YOU LIKE?

HOW SHOULD IT LOOK?
VIBRANT  SUBDUED

WHAT SHOULD IT BE?
DESTINATION  PASS-THROUGH

HOW SHOULD IT FEEL?
SOCIAL  PERSONAL

3 questions ask for your preferences on the quality of design interventions within each type of urban space.
ENGAGEMENT ACTIVITY

SETUP

SIDEWALK

Sidewalks adjacent to commercial activity, characterized by pedestrian circulation and casual gathering.

DESIGN ZONE / URBAN SPACES PHOTOS & DIAGRAMS

FEEDBACK OPPORTUNITIES: USE YOUR DOTS ON THE TABLE!
ACTIVITY TIME!
NEXT STEPS + KEY DATES

• Design Zone Workshops Round 1
  May 29 - June 6th

• Communications
  Field work updates will be posted to the website.
  Survey + Bathymetry: December 2017 to November 2018
  Geotechnical + Environmental: March 2018 to May 2018
  Pile Load Testing: May 2018 to July 2018
  Public meeting materials will all be posted to the web.
  Public meetings will be video recorded for those who cannot attend.

• Questions & Comments:
  rbd-hudsonriver@dep.nj.gov

• Mail
  Dennis Reinknecht, Chief
  Bureau of Flood Resilience
  501 East State Street,
  Mail Code 501-01A, PO Box 420
  Trenton, NJ 08625-0420

• Website:
  www.rbd-hudsonriver.nj.gov