1. COVE PARK UPDATE
2. URBAN AMENITY DESIGN
3. SEWER SYSTEM MODIFICATION
4. PROJECT UPDATE - OVERALL LOOK
5. BREAKOUT FOR DISCUSSIONS WITH THE DESIGN TEAM
THE TEAM
WHO YOU WILL SEE TONIGHT FROM THE AECOM PROJECT TEAM

ERIC OLSEN
Landscape Architecture / Urban Design and Community Engagement

CHRISTY CHENG, OMA
Urban Design / Community Engagement

TOM VARGO PE, CCM
Senior Design / Construction Engineer

KAREN APPEL PE, CPESC
Project Manager

CHRISTOPHER BENOSKY
PE, CFM
Project Executive

TIMOTHY HO, OMA
Urban Design / Community Engagement

CLAUDIA DA COSTA, OMA
Urban Design / Community Engagement

PATO FERNANDEZ, OMA
Urban Design / Community Engagement

BEN VAN SCHAAYK, OMA
Urban Design / Community Engagement

RAN WEI
Landscape Designer

COLBY SEIBERT
Project Engineer
SUPERSTORM SANDY
BREACH POINTS

PROJECT AREA BOUNDARY

JERSEY CITY
HOBOKEN
HUDDSON RIVER
WEEHAWKEN
RESIST ALIGNMENT

RESIST - SOUTH

RESIST - NORTH

PROJECT AREA BOUNDARY

JERSEY CITY

HOBOKEN

WEEHAWKEN

PUBLIC MEETING #4 REBUILD BY DESIGN - HUDSON RIVER
PRESENTED AT DZW ROUND 2 MEETINGS IN FEBRUARY, 2019

3 CONCEPTS
- BLOOM
- MEADOW
- RIDGE

FEEDBACK RECEIVED

2 CONCEPTS
- MEADOW
- RIDGE

FEEDBACK RECEIVED

PRESENTED JUNE, 2019

3 WEEK DIGITAL SURVEY PERIOD

PREFERRED CONCEPT
- MEADOW

TONIGHT

PUBLIC MEETING #4 REBUILD BY DESIGN - HUDSON RIVER
ZONE 2 - COVE PARK
DESIGN PROCESS

MEADOW

DIGITAL SURVEY
1,043 PARTICIPANTS

RIDGE

PAMPHLET
28 RECEIVED

MEADOW
ZONES 3 AND 4
DESIGN STRATEGY
PROJECT TIMELINE
COMPETITION TO IMPLEMENTATION

COMPETITION

FEASIBILITY

FINAL DESIGN + CONSTRUCTION

PROJECT AREA
DESIGN ZONES

DESIGN ZONE 1: WEEHAWKEN TIE IN
DESIGN ZONE 2: COVE PARK
DESIGN ZONE 3: WASHINGTON STREET / ALLEYWAY / GARDEN STREET
DESIGN ZONE 4: OBSERVER HIGHWAY / RAILYARD
DESIGN ZONE 5: JERSEY CITY TIE-IN
PROJECT AREA
UNIFIED ALIGNMENT

DESIGN ZONE 1:
WEEHAWKEN TIE IN

DESIGN ZONE 2:
COVE PARK

DESIGN ZONE 3:
WASHINGTON STREET / ALLEYWAY / GARDEN STREET

DESIGN ZONE 4:
OBSERVER HIGHWAY / RAILYARD

DESIGN ZONE 5:
JERSEY CITY TIE-IN
PROJECT IDENTITY
CONTINUOUS ELEMENTS
COLOR, PAVING, SYMBOL
“This team grasped that Hoboken can be an example for a lot of cities, because it is so vulnerable to flooding. It’s very urban, and its permeable character is just about zero. So the plan encompasses how to keep water out, how to drain it off when it gets in and how to store it. It uses parks as water basins and installs a new pumping system.”

Henk Ovink, HUD Senior Advisor, for The New York Times

“Hoboken’s residents and businesses must be protected from flooding and other residual effects of future storms. This alignment will help protect our city and support our economic goals. We believe that Hoboken can truly become a national model for innovatively dealing with the impacts of global climate change.”

Mayor Ravi Bhalla

UN names Hoboken 'role model city' for flood plans

“Through a multi-layered approach to resiliency, we are on the cusp of solving a more than century-old flooding problem.”

Mayor Dawn Zimmer of Hoboken

Hoboken Wins $230M Funding for Flood Management Project

June 2014
PROJECT IDENTITY
COMMUNITY FEEDBACK

GENERAL PREFERENCE TOWARDS VIBRANCY

SIDEWALK
ALLEYWAY
URBAN STREET

VIBRANT SUBDUED
VIBRANT SUBDUED
VIBRANT SUBDUED

40% 42% 18%
23% 38% 38%
44% 39% 18%

PUBLIC MEETING #4 REBUILD BY DESIGN - HUDSON RIVER

REBUILD BY DESIGN - HUDSON RIVER

AECOM
MATERIALS
MATERIALS
ZONE 3
2/19 Pamphlet results

Washington Street
- Wood (15) 47%
- Stone (12) 37%
- Metal (5) 16%

The Alleyway
- Wood (13) 48%
- Stone (15) 42%
- Metal (3) 10%

Garden Street
- Stone (14) 50%
- Wood (11) 39%
- Metal (3) 11%
MATERIALS
ZONE 3

CONTEXT

PAINTED BRICK

WOOD

PAINTED WOOD

METAL

PLANTING

METAL

PAINTED WOOD

MATERIALS
MATERIALS

**STONE**
- **PRO**
  - Durable
  - Natural look and feel
  - Contextual
  - Easy to maintain
- **CON**
  - Costly
  - Structural increase

**WOOD**
- **PRO**
  - Eco-Friendly
  - Natural look and feel
- **CON**
  - Costly
  - Maintenance
  - Vulnerable to water damage

**FORMLINER**
- **PRO**
  - Durable
  - Minimal Maintenance
  - High Affordability
  - Versatility
- **CON**
  - Generic
  - Highway Barrier

**BRICK**
- **PRO**
  - Durable
  - Minimal Maintenance
  - Contextual
- **CON**
  - Costly
  - Structural increase
MATERIALS

STONE
- PRO
  - Durable
  - Natural look and feel
  - Contextual
  - Easy to maintain
- CON
  + Costly
  + Structural increase

WOOD
- PRO
  - Eco-Friendly
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FORMLINER
- PRO
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  - Highway Barrier

BRICK
- PRO
  - Durable
  - Minimal Maintenance
  - Contextual
- CON
  + Costly
  + Structural increase

PUBLIC MEETING #4 REBUILD BY DESIGN - HUDSON RIVER
MATERIALS
Alternatives

PRO
Durable
Minimal Maintenance

CON
+ Costly

PRO
Durable
Minimal Maintenance
High Affordability
Visual identity

CON
Superficial treatment
MATERIALS
Formliner as a way of reinterpreting materials

STONE I
STONE II
WOOD I
BRICK
PILLOW
RIB TYPE I/II/III/IV
NAUTICAL THEME
NAUTICAL THEME
“Orange is the happiest color.”

Frank Sinatra
Orange

The color of encouragement. The combination of yellow and red makes orange convey excitement, warmth, and enthusiasm. Social and inviting, this is the color of the extrovert, exuding happiness and joy, releasing inhibitions. Orange is a motivating and encouraging color that appeals to young people.

WAVELENGTH 635 - 590 nm

Emotion
- Optimistic
- Independent
- Adventurous
- Creativity
- Fun

Used To
- Stimulate
- Communicate fun
- Draw attention
- Express freedom
- Fascinate

Industry
- Art
- Entertainment
- Food
- Sports
- Transportation
ORANGE

EXCITEMENT
ENERGETIC  WARMTH
OPTIMISTIC  CHEERFUL
DYNAMIC  ATTENTION-GRABBING
REFRESHING  UPLIFTING
HAPPY  SAFETY
MATERIALS
Formliner as a way of reinterpreting materials

STONE I
STONE II
WOOD I
BRICK

PILLOW
RIB TYPE I/II/III/IV
NAUTICAL THEME
NAUTICAL THEME

ORANGE

PUBLIC MEETING #4
REBUILD BY DESIGN - HUDSON RIVER
RESIST STRUCTURE
PROGRAMMATIC HEIGHT

- **Eye-Level**: 4’-2” — 6’
- **Table**: 3’ — 4’-2”
- **Seat**: 1’ — 3’
TOOLKIT
DESIGN STRATEGY

PLANTING
LEANING WALL
STANDING COUNTER
FORMLINER WITH COLORED TOP
FORMLINER WITH LIGHTING
WIDE PLANTER

HANGING PANEL
PLANTER+ SEATING
VERTICAL PLANTER
SEATING
SEATING WITH TRELLIS
PLANTING
CONCEPT
DESIGN STRATEGY - ALIGNMENT

CONSTANT LINE OF PROTECTION WITH CONTEXTUAL FORMLINER

FLOOD RESIST STRUCTURE
CONCEPT
DESIGN STRATEGY - AMENITIES

WEAVING LINE OF AMENITIES

FLOOD RESIST STRUCTURE

CANOPY / VEIL
SEATING
EDUCATIONAL PANEL
LIGHTING
PLANTER
SIGNAGE
TOOLKIT APPLICATION
COMMUNITY FEEDBACK

PUBLIC MEETING #1

Design Zone Workshops Round 1

Digital Survey
ZONE 3
AREAS OF EXPERIENCE BASED ON SURVEY
ZONE 4
AREAS OF EXPERIENCE BASED ON SURVEY
ZONE 3 STAKEHOLDER MEETING
COMMUNITY FEEDBACK
ZONE 3 STAKEHOLDER MEETING
FEEDBACK OVERVIEW

COLOR: 27%
SCREENING: 19%
TREES: 15%
CONTEXT: 10%
SOULCYCLE MAINTENANCE: 7%
MATERIALS ACCESS/FLOW BICYCLE RACK: 5%
ZONE 3
DESIGN
STRATEGY
WASHINGTON STREET
ZONE 3
EXISTING CONDITION
ZONE 3
PROPOSED CONDITION
ZONE 3
EXISTING STREET SECTION

5 Story Brick Facade Building

Planters - 6.5’  Walkway - 7’  Pavers - 4.6’

Residential Building  Sidewalk - 18.1’
ZONE 3
PROPOSED STREET SECTION

5 Story
Brick Facade
Building

Planters - 6.5'
Walkway - 8'
2'
Walkway - 5.1'

Residential Building
Sidewalk - 16.5'
ZONE 3
EXISTING CONDITION
ZONE 3
PROPOSED CONDITION
ZONE 3
EXISTING CONDITION
ZONE 3
PROPOSED CONDITION
ZONE 3
EXISTING STREET SECTION

4 Story Brick Facade Building

Retail with outdoor seating

Outdoor seating - 7.4' Walkway - 5.6' Pavers - 4.6'

Residential Building with Retail

Sidewalk - 17.6'
ZONE 3
PROPOSED STREET SECTION

4 Story Brick Facade Building

Retail with outdoor seating

Outdoor seating - 7.4’  Walkway - 7’ - 8.5’  Walkway - 5.1’

Sidewalk - 16.2’

Residential Building with Retail

PUBLIC MEETING #4

REBUILD BY DESIGN - HUDSON RIVER

PUBLIC MEETING #4

REBUILD BY DESIGN - HUDSON RIVER
WASHINGTON STREET
(SOUL CYCLE)
ZONE 3
EXISTING CONDITION
ZONE 3
PROPOSED CONDITION - ORANGE BENCH TOP
ZONE 3
PROPOSED CONDITION - PLANTER + BENCH
ZONE 3
EXISTING STREET SECTION

2 Story Block Building

SoulCycle

Bike Share Dock - 6.7’ - 7.9’  Walkway - 5.2’  Tree Pit - 4.7’

Sidewalk - 17.8’
ZONE 3
PROPOSED STREET SECTION

2 Story Block Building

SoulCycle

Walkway - 6'

Sidewalk - 17.8'

4.3' 3.7'

32"
ALLEYWAY EAST
ZONE 3
EXISTING PLAN

ALLEYWAY EAST

SEATING - 34.8 LF.
PLANTING - 150 LF.
ZONE 3
PROPOSED PLAN
ALLEYWAY EAST

SEATING - 42 LF.
PLANTING - 132 LF.
ZONE 3
EXISTING CONDITION
ALLEYWAY EAST
ZONE 3
EXISTING STREET SECTION
ALLEYWAY EAST
ZONE 3
PROPOSED STREET SECTION
ALLEYWAY EAST
ALLEYWAY WEST
ZONE 3
EXISTING CONDITION
ALLEYWAY WEST
ZONE 3
PROPOSED
ALLEYWAY WEST
ZONE 3
PROPOSED
ALLEYWAY WEST

(Potential Mural Space)
ZONE 3
PROPOSED
ALLEYWAY WEST

(Potential Mural Space)
ZONE 3
PREVIOUS PROPOSED CONDITION
GARDEN STREET
ZONE 3
PROPOSED - LESS ORANGE
GARDEN STREET
ZONE 3
EXISTING STREET SECTION
ALLEYWAY WEST
ZONE 3
PROPOSED STREET SECTION
ALLEYWAY WEST

6 Story Brick Building

Residential Building

Alleyway - varies (13.5’ to 15.7’)

Behind Gate - 3.5’

Behind Structure - 5.6’

Garage Building

8 Story Brick Building

PUBLIC MEETING #4

REBUILD BY DESIGN - HUDSON RIVER

WASHINGTON ST
BLOOMFIELD ST
GARDEN ST

PRIVATE BACKYARDS

RESIDENTIAL

EGRESS

BAR & GRILL SOUL CYCLE

SCHOOL

FARMER’S MARKET

PARKING GARAGE

SCHOOL
GARDEN STREET
ZONE 3
PROPOSED PLAN
GARDEN STREET

Parking Garage

- ROLLING GATE
- PLANTER + SEATING
- EDUCATIONAL PANEL
- ALIGNMENT
- PLANTER
- BENCH + SIGNAGE

Garden Street
65’ Wide Public Right-of-Way

Elysian Charter School
Residential
ZONE 3
PROPOSED STREET ELEVATION

GARDEN STREET

MIXED FORMLINER PATTERN
ZONE 3
EXISTING CONDITION
GARDEN STREET
ZONE 3
PREVIOUS PROPOSED
GARDEN STREET
ZONE 3
PROPOSED - LESS ORANGE
GARDEN STREET
ZONE 3
EXISTING CONDITION

GARDEN STREET
ZONE 3
PROPOSED
GARDEN STREET
ZONE 3
PROPOSED - LESS ORANGE
GARDEN STREET
ZONE 3
PROPOSED - ELYSIAN SCHOOL PANEL

GARDEN STREET
PRECEDENTS
EDUCATIONAL PANEL
MAGNETIC, CHALKBOARD, MURAL
ZONE 3
EXISTING STREET SECTION
GARDEN STREET
ZONE 4 - WASHINGTON STREET SOUTH
DESIGN STRATEGY - CONTINUOUS PLANTER
SEWER SYSTEM MODIFICATION (SSM)
NEXT STEPS + KEY DATES
UPCOMING ENGAGEMENT OPPORTUNITIES

• DESIGN ZONE WORKSHOPS, NORTHERN ALIGNMENT ROUND 2
  - FEBRUARY 2019
  • Zone 1+2: February 19th

• PUBLIC MEETING #3
  - MARCH / APRIL 2019

• PUBLIC MEETING #4
  - JULY 2019

NEXT STEPS + KEY DATES

• SSM CONTRACT
  - 2020 TBD

• PUBLIC MEETING #5
  - 2020 TBD

• 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
Contracting and Schedule Updates

• Upcoming Contracting
  • Sewer Separation Modification
  • Storm Resist Alignment

• Schedule

• Next Steps for 2020

• Q & A Session

• Breakout Sessions
Sewer Separation Modification (SSM) Contract
Sewer Separation Modification (SSM) Contract

• The design is 100% complete

• Work includes waterproofing manhole covers and separating storm sewer lines from sanitary sewer lines

• This contract work is required in order for the flood risk reduction system to function properly

• The contract will be submitted to Treasury in January and competitively bid

• Timeline for Construction
  • Expected contract award date of July 2020
  • Construction phase of this contract expected to take 18 months
Resist Structure Contract

RESIST ALIGNMENT

PROJECT AREA BOUNDARY

RESIST - SOUTH

RESIST - NORTH

Jersey City

Hoboken

Weehawken

Public Meeting #4
Project Schedule Update

• Our project has 7 years to complete all phases through construction

• Must be completed by Sept 2022

• The project schedule and timeline have always been aggressive
Ongoing Design Challenges

- Hudson Bergen Light Rail (HBLR) final crossing location in Weehawken
- Subsurface investigation
- Easements
- Permitting
Preliminary 2020 Schedule Estimate and next steps

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