CONCEPT A

Least costly resist barrier which provides the least coastal storm surge risk reduction benefits to the study area.

- Approximately 86% of people in the study area receive flood risk reduction benefits.
- 8,100 to 8,400 linear feet of structure and 21 gates.
- North Waterfront takes Boathouse into account.
- North Hoboken on-street protection provided along Garden Street until elevation tie-in.
- Hoboken Terminal does not receive flood risk reduction benefits.
- South Waterfront constructed independent of Longspur Canal.
- Permanent movable gates proposed to address flood risk reduction along the underpress.

For more information, visit our website at: www.rbd-hudsonriver.nj.gov
CONCEPT B

High coastal storm surge risk reduction with substantial resist structure construction in the northern study area.

- Approximately 98% of people in the study area receive flood risk reduction benefits.
- 13,430 linear feet of resist structure and 21 gates.
- Weehawken tie-in at Lincoln Tunnel.
- Permanent built structures on North Waterfront provide flood risk reduction benefits.
- Hoboken Terminal does not receive flood risk reduction benefits.
- South Waterfront constructed independent of Long EPA Canal.
- Permanent movable gates proposed to address flood risk reduction along the underpass.

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CONCEPT C

Highest construction costs which provide highest coastal storm surge risk reduction using free-standing, in-water revetments.

- Approximately 99% of people in the study area receive flood risk reduction benefits.
- 14,750 linear feet of on land structures with 15 gates.
- 2,120 linear feet of in water resist barriers with 5 gates.
- An in-water revetment is planned in Weehawken Cove, and to the north is Lincoln Tunnel tee-in.
- Permanent bulk structures on North Waterfront provide flood risk reduction benefits.
- Programmed Bulkheads offer added community benefits, while providing flood risk reduction benefits to those on the water.
- South Waterfront constructed assuming the proposed construction of the Long岛上 Canal project.
- Hoboken Terminal does receive flood risk reduction benefits; resist portion is planned in water in front of the Terminal.
- Permanent revetments proposed to address flood risk reduction along the underpass.

Legend:
- Gate - Sliding
- Gate - Swinging
- Deployable Flood Wall
- Landscape
- Berm
- Revetment
- Raised Path
- Seawall
- Flood Wall
- T Wall
- Ramp

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CONCEPT D

High construction cost which provides highest coastal storm surge risk reduction with no free standing, in-water revetments.

- Approximately 90% of people in the study area receive flood risk reduction benefits.
- 16,200 linear feet of resist structure and 52 gates.
- North Resist portion offers Lincoln Tunnel Tunnels.
- Permanent built structures on North Waterfront provide flood risk reduction benefits.
- Programmed BuWays offer added community benefits, while providing flood risk reduction benefits to those on the water.
- South Waterfront constructed assuming the proposed construction of the Longspill Canal project.
- Alignment goes through Hoboken Terminal, offering flood risk reduction benefits to essential electrical and utility assets (allows for continued operations in the case of an event).
- Permanent movable gates proposed to address flood risk reduction along the underpass.

Legend:
- Gate - Sliding
- Gate - Swinging
- Deployable Flood Wall
- Landscape
- Berm
- Revetment
- Seawall
- Raised Path
- Flood Wall
- T Wall
- Ramp

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OVERALL STRATEGY

- Design proposal aims to maximize the potential to capture, store, infiltrate, evaporate, and release stormwater.
- Goal is to achieve community co-benefits while improving management of stormwater that could reduce rainfall flooding.
- Besides BASF site, all stormwater management strategies are entirely on publicly-owned land.
- Proposal uses both "green" and "grey" stormwater management strategies.
- The team considered physical, environmental and infrastructure constraints in locating and designing specific interventions.

Legend:
- Delay + Store - Parks
- Water Storage Sites
- Catchment Area
- New Outfall Pipe
- New Storm Sewer Pipe
- Hybrid Tank
- Tank
- Tank Bumpout
- Ongoing Projects
- Existing Flooding "Hotspot"
- Municipal Boundaries
- Study Area
- Ferry Lines

(12/10) DRAFT IDEAS FOR DISCUSSION PURPOSES ONLY