

Key Topics

- Challenges and constraints facing urban resiliency infrastructure
- Iterative, inclusive design approach with stakeholders
- Integrated design solutions for urban environments
- Best practices and lessons learned





October 2012-Sandy's Path





(Im)perfect Timing



Storm Impacts



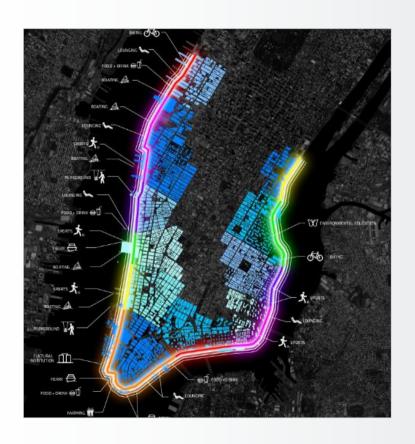


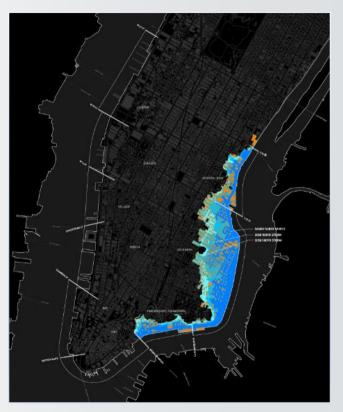
OCTOBER 29, 2013



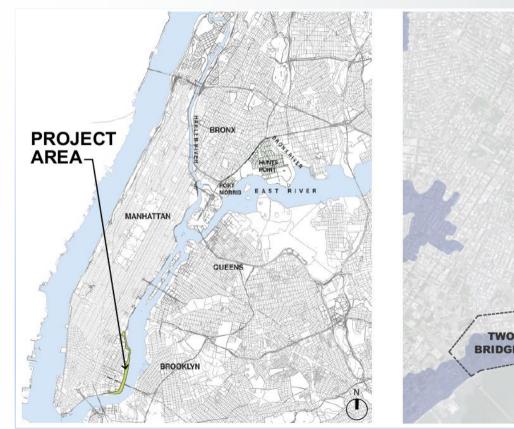


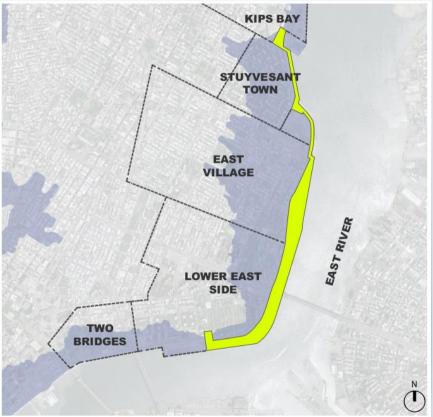
RBD to BIG U to ESCR





Project Location



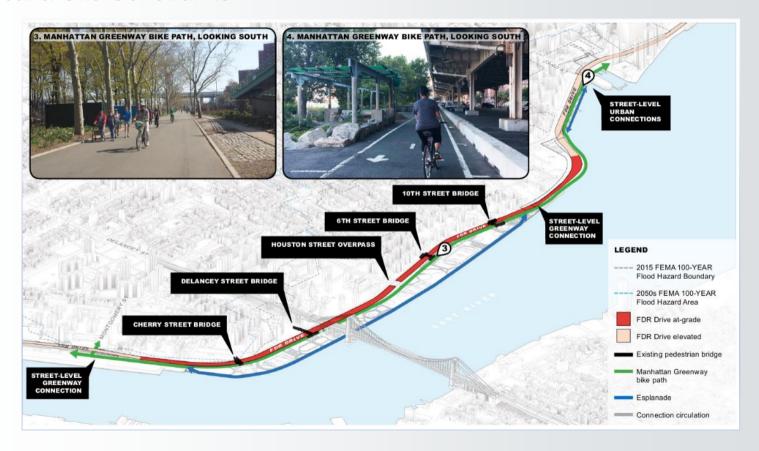












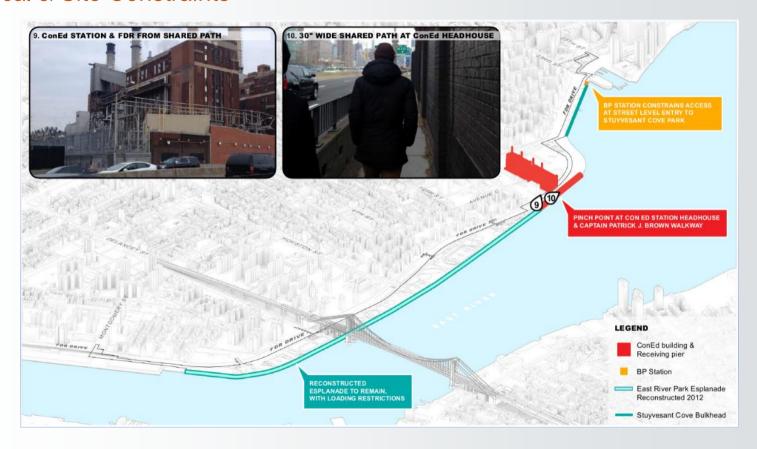














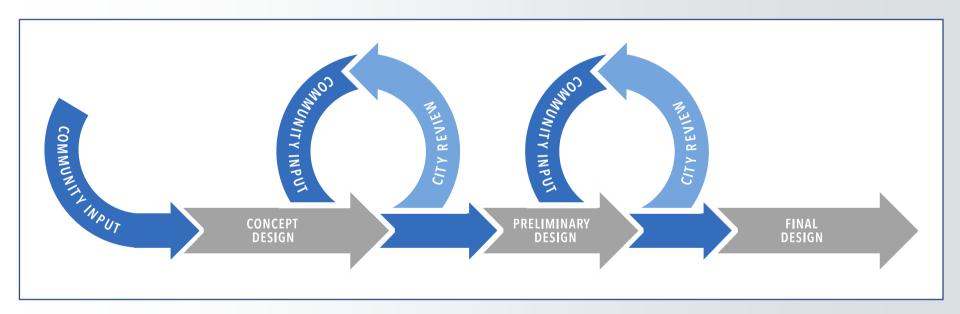


Design Concept





Iterative Design Process





Community Input Sessions



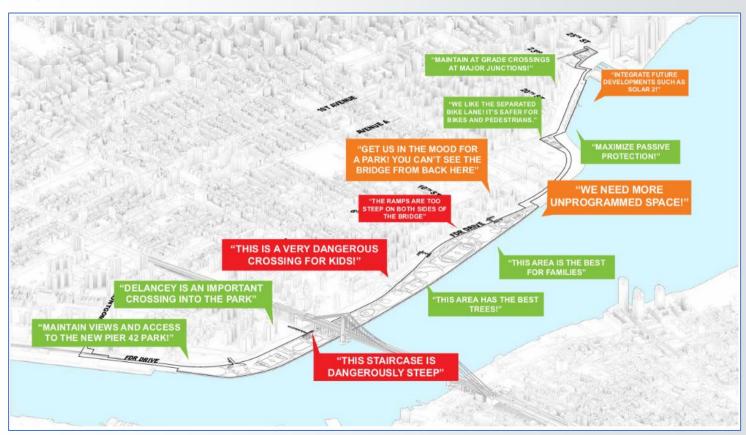






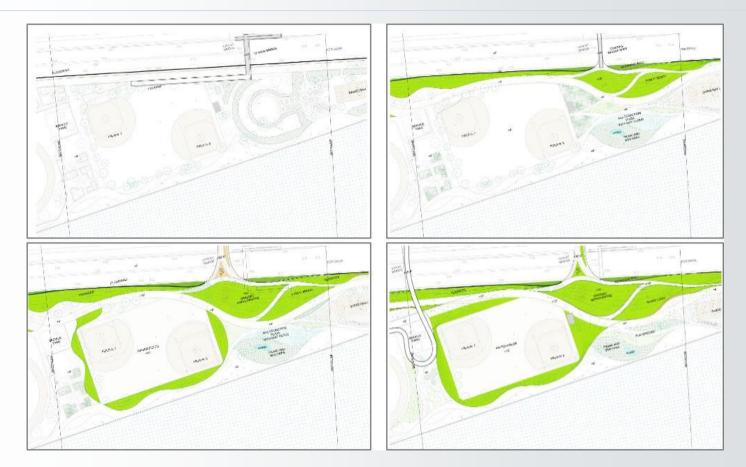


Community Feedback





Conceptual Design Study





Community Reporting Sessions





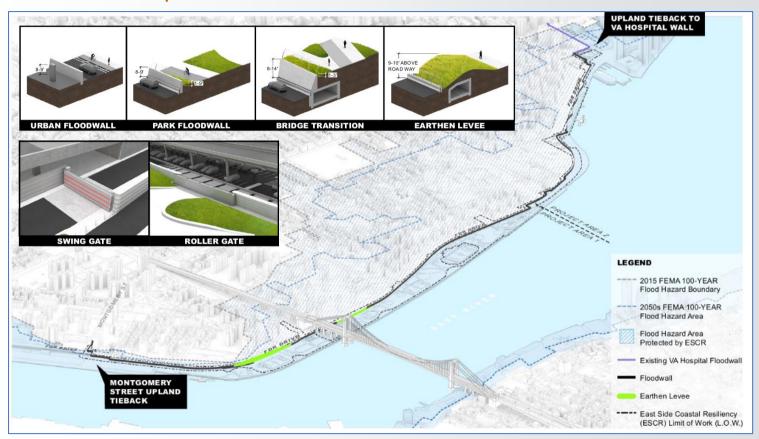








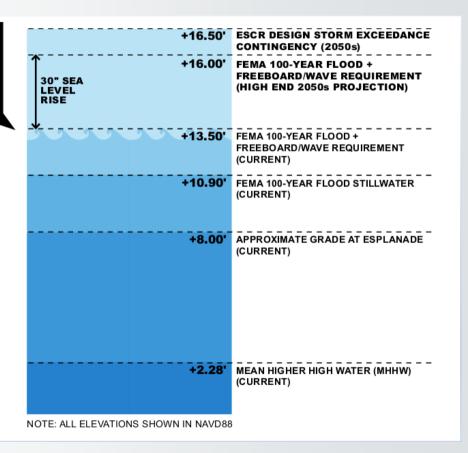
Flood Protection Components





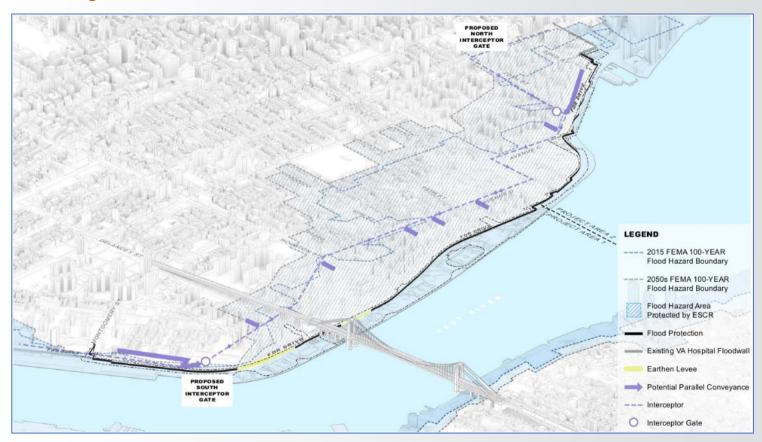
Design Elevation

HUD FUNDING REQUIREMENT: THE SYSTEM MUST PURSUE FEMA ACCREDITATION WITH MINIMUM SYSTEM ELEVATION AT CURRENT FEMA 100-YEAR STORM ELEVATION + FREEBOARD



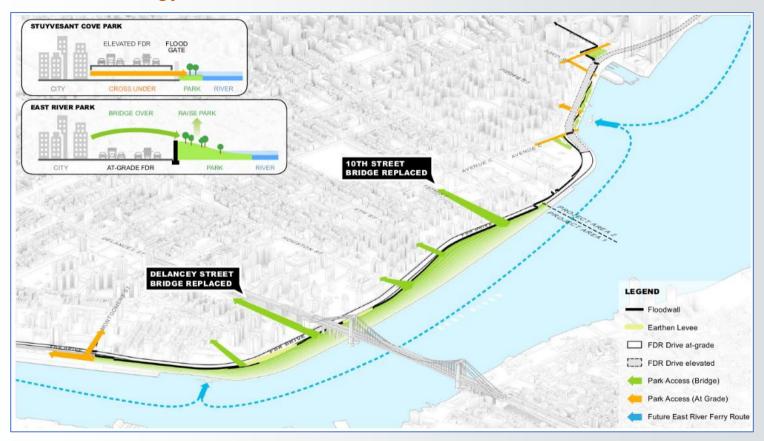


Interior Drainage





Park & Access Strategy





Southern Tie-Back





East River Park





FDR Drive Crossing





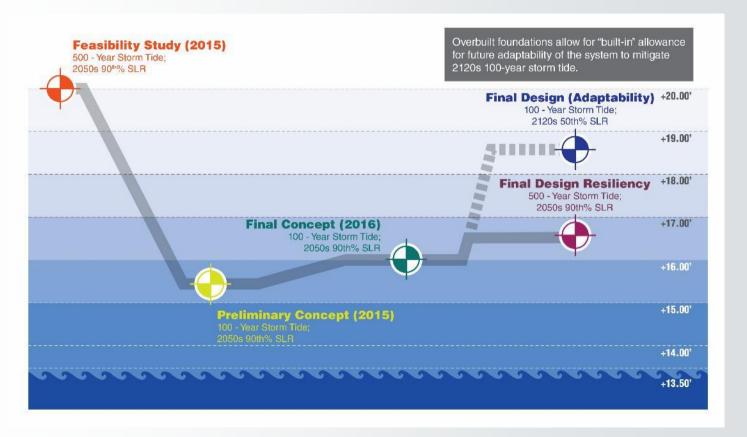
Stuyvesant Cove Park





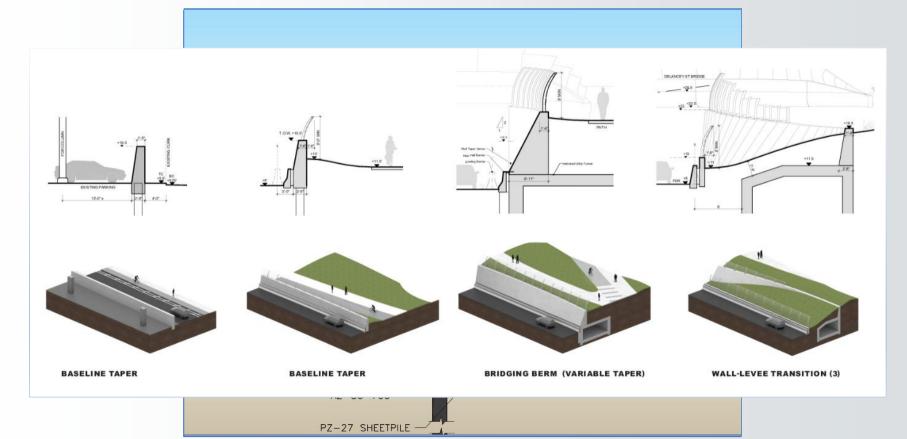


Resilient, Maintainable, Adaptable



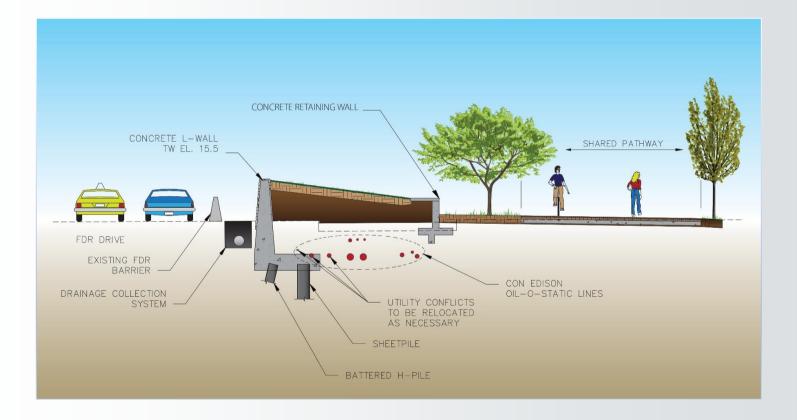


Floodwall Design Progression



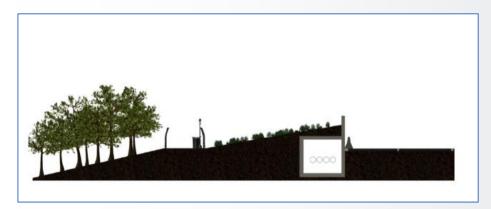


Lines to be Relocated





Utility Proposal





Design Synthesis





Integrated Solution







DAKRF

DESIGNING FOR URBAN COASTAL RESILIENCY Margaret Hopkins, P.E.