

Climate Change and Resilient Connecticut

NATIONAL COMMUNITY DEVELOPMENT ASSOCIATION

FALL CONFERENCE

OCTOBER 17, 2019

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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

National Disaster Resilience \$46M

- Flood Risk Reduction Project
 - Resilience Center
 - Energy Study
- Floodplain Design Guidelines

National Disaster Resilience \$8.3M Coastal Resilience Plan

mge line shows Study Area for Environmental Impact Statement It is NOT a flood barrier alignment



Resilient Connecticut

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RESILIENT









Modeling Analysis



Map Viewer



Field Research



Planning



Education

CIRCA ACTIVITIES



Site Reconnaissance



Technical to Planning





* RESILIENT BRIDGEPORT

Connecticut Physical Climate Science Assessment Report (PCSAR)

Observed trends and projections of temperature and precipitation

August 2019





Sponsored by a grant from the Connecticut Institute for Resilience and Climate Adaptation (OIRCA). CIRCA is a partnership between the University of Connecticut and the State of Connecticut Department of Energy and Environmental Protection. More information can be found at: <u>www.circa.uconn.edu</u>

CT Temperature & Precipitation Projections

T (°F) Annual Mean



September 27 Webinar (12-1pm): register at https://resilientconnecticut.u conn.edu/blog/



* RESILIENT BRIDGEPORT

The South End has low-lying areas close to sea level and is mostly in the floodplain



RESILIENT BRIDGEPORT

FEMA FIRM FLOOD ZONE



HURRICANE SANDY INUNDATION

















Storm Surge Bridgeport South End Irene 2011

Photo: UI, CT Siting Council, 2018







Chronic Stormwater Flooding in the South End













Resilient Bridgeport Project Goals



Minimizes Risks Associated with Acute and Chronic Flooding



Integrates with plans and projects of key local stakeholders



Delivers co-benefits to enhance community resilience



Project Needs to be Implementable





Rebuild By Design Stormwater Park





Preferred Alternative – Coastal Flood Defense System





WSP. 2019 Source:









Coastal Flood Defense System and Seaside Park: Elevated University Avenue



Buried floodwall



★⊕ RESILIENT







CT Sandy Recovery Program for Owner-Occupied Homes



Hermia Delaire Sandy Program Manager Hermia.Delaire@ct.gov



SOURCE: FEMA Homeowner's Guide to Retrofitting, June 2014

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