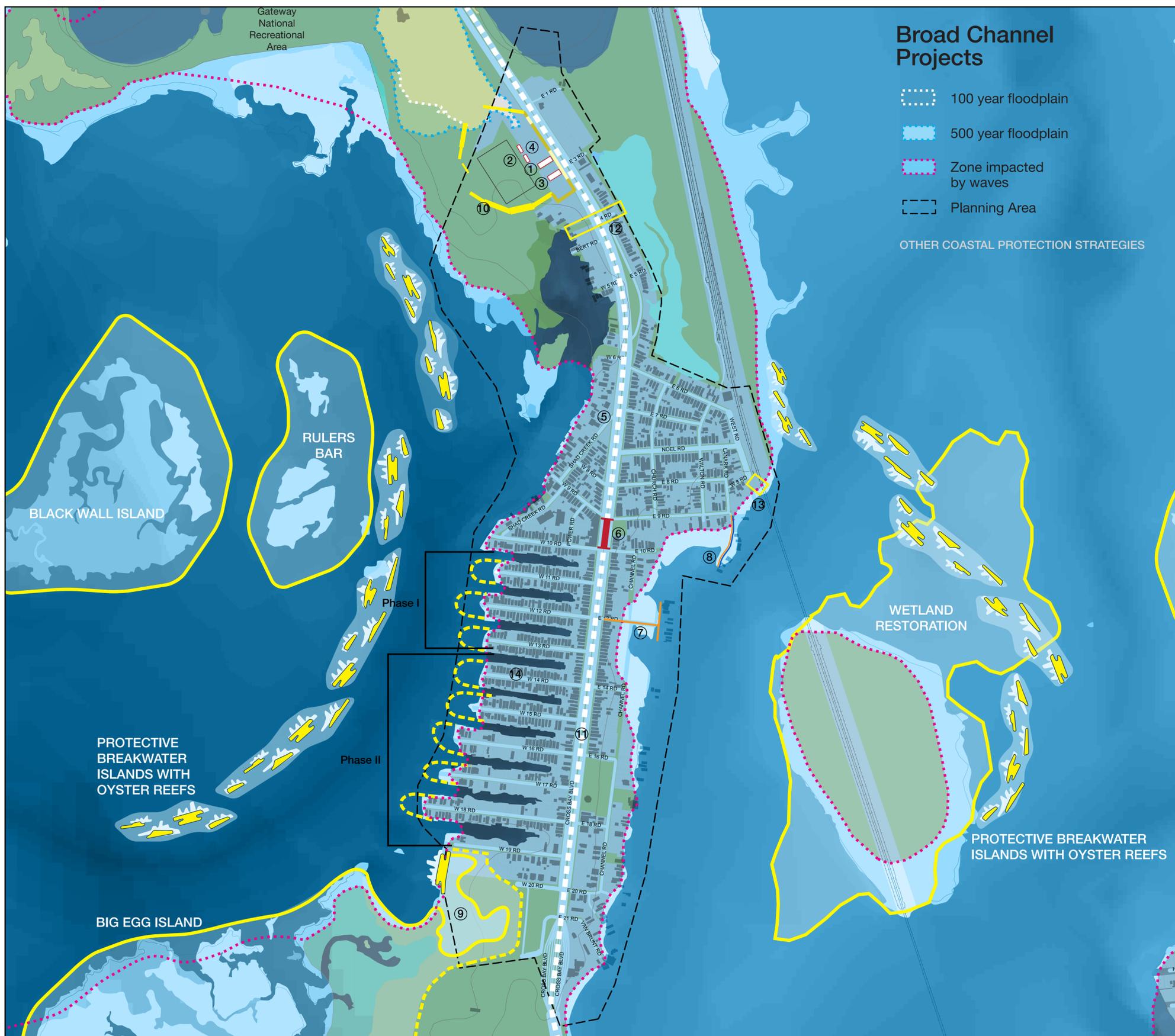


Project Overview

Priority Projects and Featured Projects

Priority Projects



Community Planning and Capacity Building

- ① American Legion Hall Improvements
- ② BCAC Resiliency Improvements
- ③ BC VFD Communications Center
- ④ BC Historical Society Digital Archive
- ⑤ VFW Hall Resiliency Improvements

Sustainable Infrastructure

- ⑥ Cross Bay Blvd. Complete Street Pilot
- ⑦ East 12 Rd. Boardwalk
 - Provide a new boardwalk structure along E 12th Rd that can accommodate sewer and water connection
- ⑧ Lanark Rd.
 - Provide sewer and water connection to homes on Lanark Road
 - Stabilize Lanark Road and remove ponding condition

Coastal Protection

- ⑨ Sunset Cove
 - Implement Sunset Cove edge protection strategy

Featured Projects

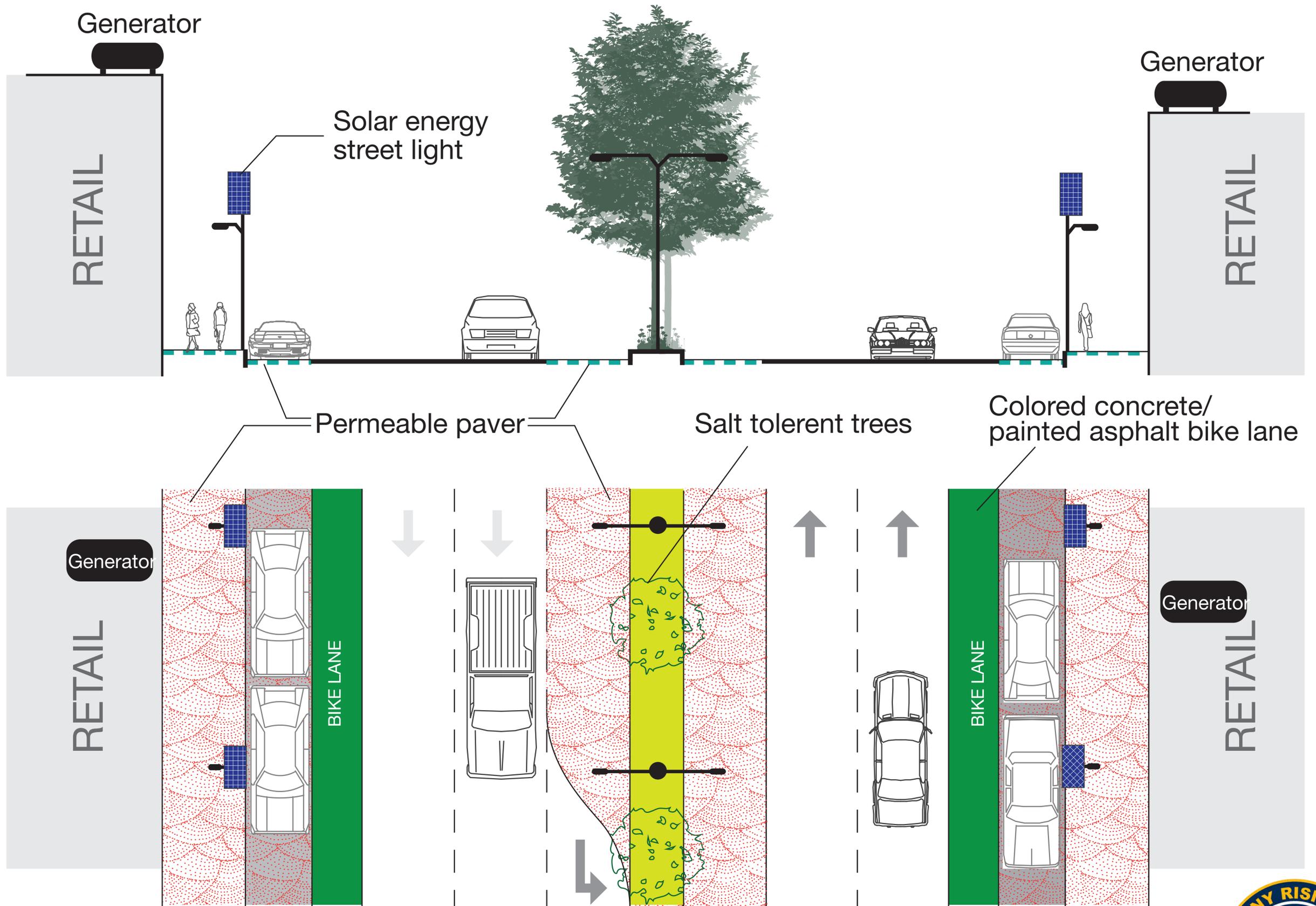
- ⑩ Broad Channel Relief Campus Protection Berm
- ⑪ Natural Gas Pipeline
- ⑫ North-side Culvert
 - Redesign the culvert under Cross Bay Blvd. at 4th Rd.
- ⑬ West Rd. Back Flow Preventer
 - Replace the backflow preventer at south end of West Rd.
- ⑭ Street Raising (from 13th Rd. to 19th Rd.)

Broad Channel NY RISING COMMUNITY RECONSTRUCTION



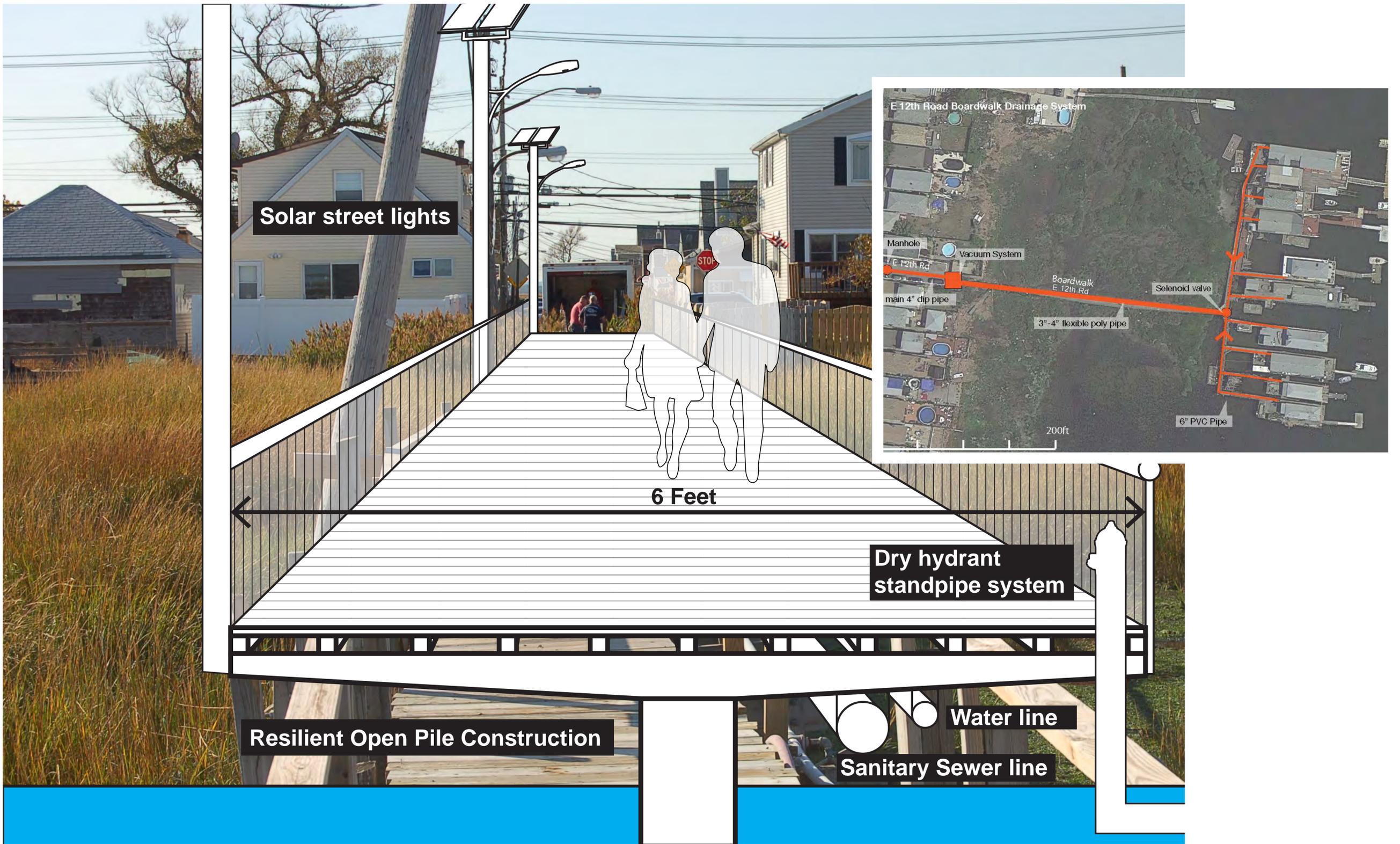
Sustainable Infrastructure Strategies

Implement 9th Road Complete Street pilot



Sustainable Infrastructure Strategies

Rebuild the East 12th Road Boardwalk



Community Planning and Capacity Building

Edge Protection for the Broad Channel Relief Campus

Overall Strategy

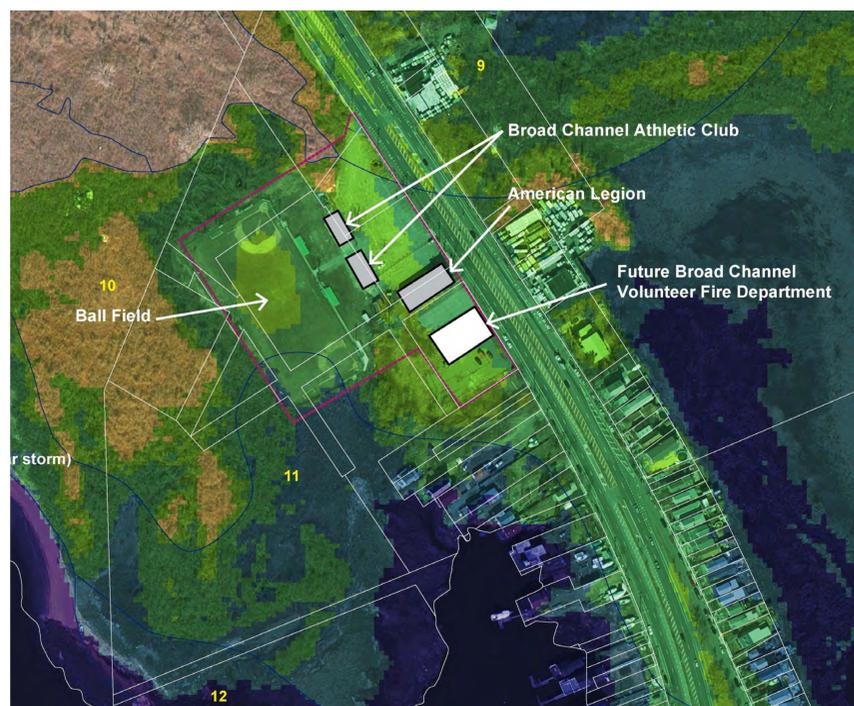
Create a Relief Campus for the Broad Channel community to assist with recovery efforts after storm events.

The Relief Campus should include:

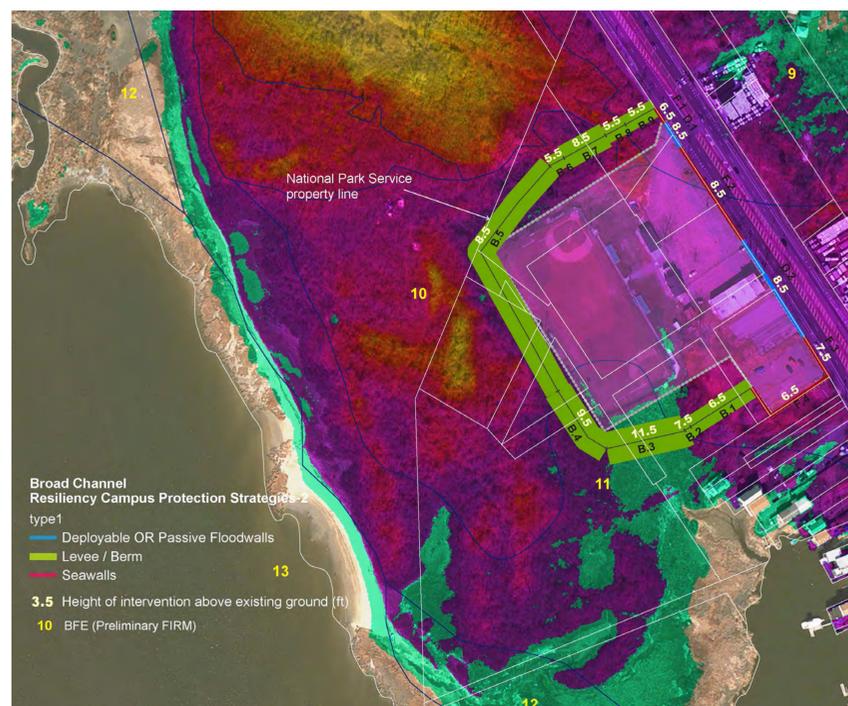
- electrical back-up facilities
- electricity for daytime and nighttime relief efforts
- indoor and outdoor staging and gathering spaces
- coordinated relief effort with citywide, regional and national relief programs



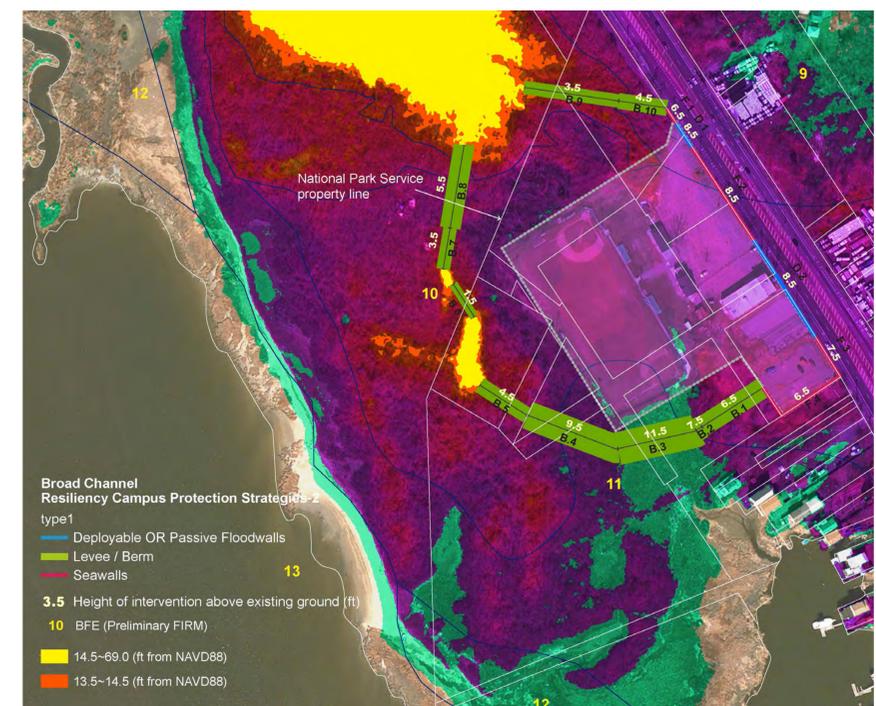
Option 1: Raise Buildings and Equipment



Option 2: Tight Berm



Option 3: Connect to High Ground



Sustainable Infrastructure Strategies

Make sewer and water connection at Lanark Road



Community Planning and Capacity Building

Creating Resiliency for Broad Channel's Civic Centers



Relief Campus: Broad Channel Athletic Club

Storm Impact

- Flooding of first-floor storage facility; lost thousands of dollars in youth athletic equipment
- Damage to field lighting and electrical equipment
- Center for neighborhood youth; used as a shelter by families during storms

Project Needs

- Second-floor flood proof storage facility to store athletic and electrical equipment
- Generator system for emergency source of power for relief efforts
- Athletic field lighting and flood lighting for shared parking lot with American Legion to ensure safety during emergency events



Relief Campus: American Legion Hall

Storm Impact

- Flooding of first floor during storm
- Damage to HVAC system and electrical equipment
- Facilitates neighborhood essential and recreational services; used as a shelter by families during storm

Project Needs

- Facility waterproofing system including flood doors
- Replacement HVAC system with filter capability
- Generator system for emergency source of power for relief efforts
- Permeable parking lot foundation to share with BCAC



Community Planning and Capacity Building

Creating Resiliency for Broad Channel's Civic Centers



Broad Channel Historical Society Digitizing Project

Storm Impact

- Damage to hundreds of physical archives
- Long-term longevity of collection unclear

Project Needs

- Digital archival project that will include scanning of collection, cataloging and inclusion of donor information, date of historical occurrence, location, etc.; creation of back-up repository
- Creation of Virtual Museum that will house and showcase digital collection and allow wide dissemination to current and former Broad Channel residents



Resiliency Repairs of VFW Hall

Storm Impact

- Damage to front hall
- Facility difficult to navigate for vulnerable populations (mostly disabled and elderly community members)
- Served as 24-hour center for distributing necessities to families throughout the region after the storm

Project Needs

- Reconstruction of main entrance
- Construction of ADA ramp to facility and accessible public restrooms to serve vulnerable populations



Community Planning and Capacity Building

Creating Resiliency for Broad Channel's Civic Centers



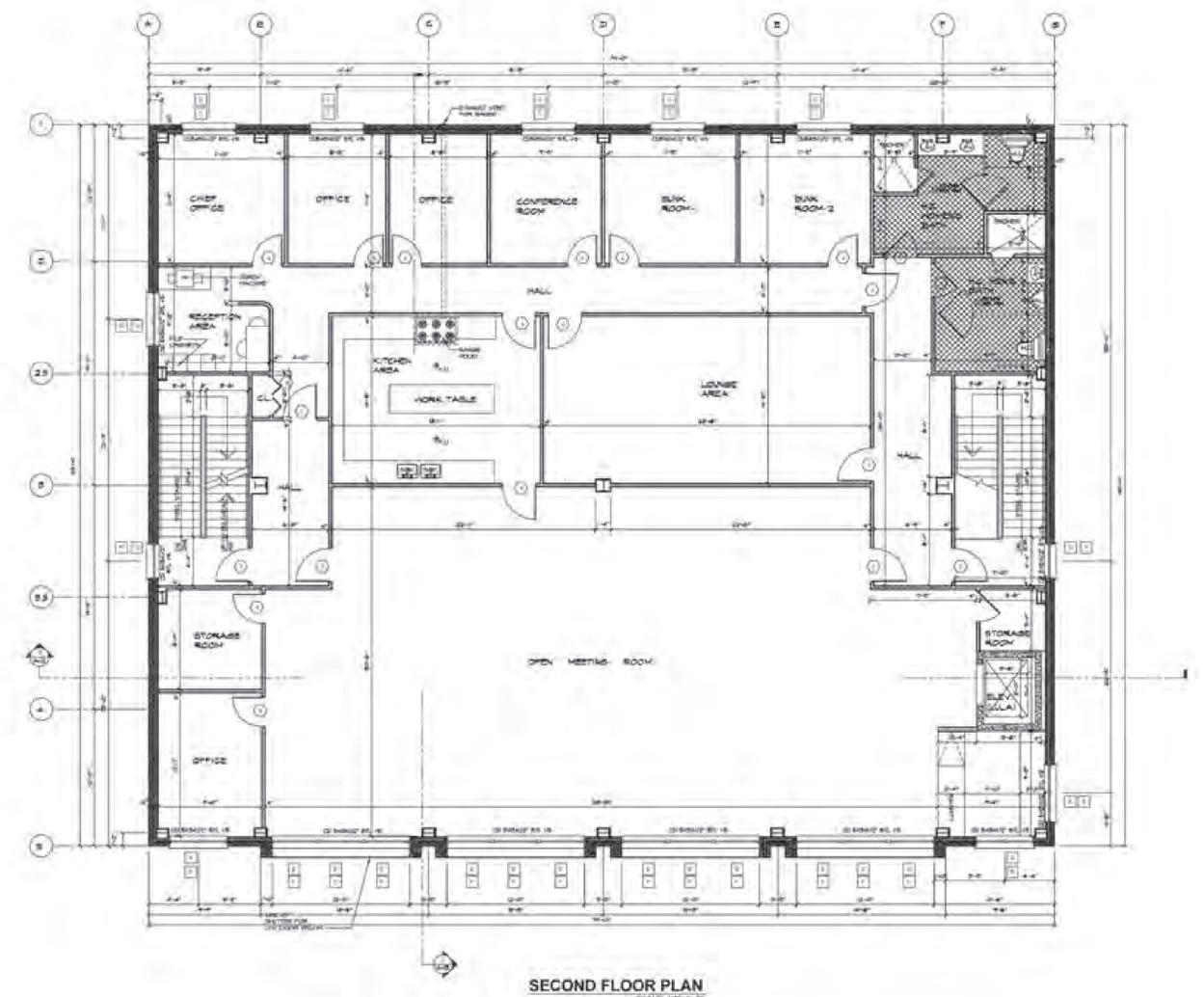
Relief Campus: Broad Channel Volunteer Fire Department

Storm Impact

- Lack of adequate building facilities
- Lack of central communications to coordinate emergency response
- Current facility completely compromised during Superstorm Sandy

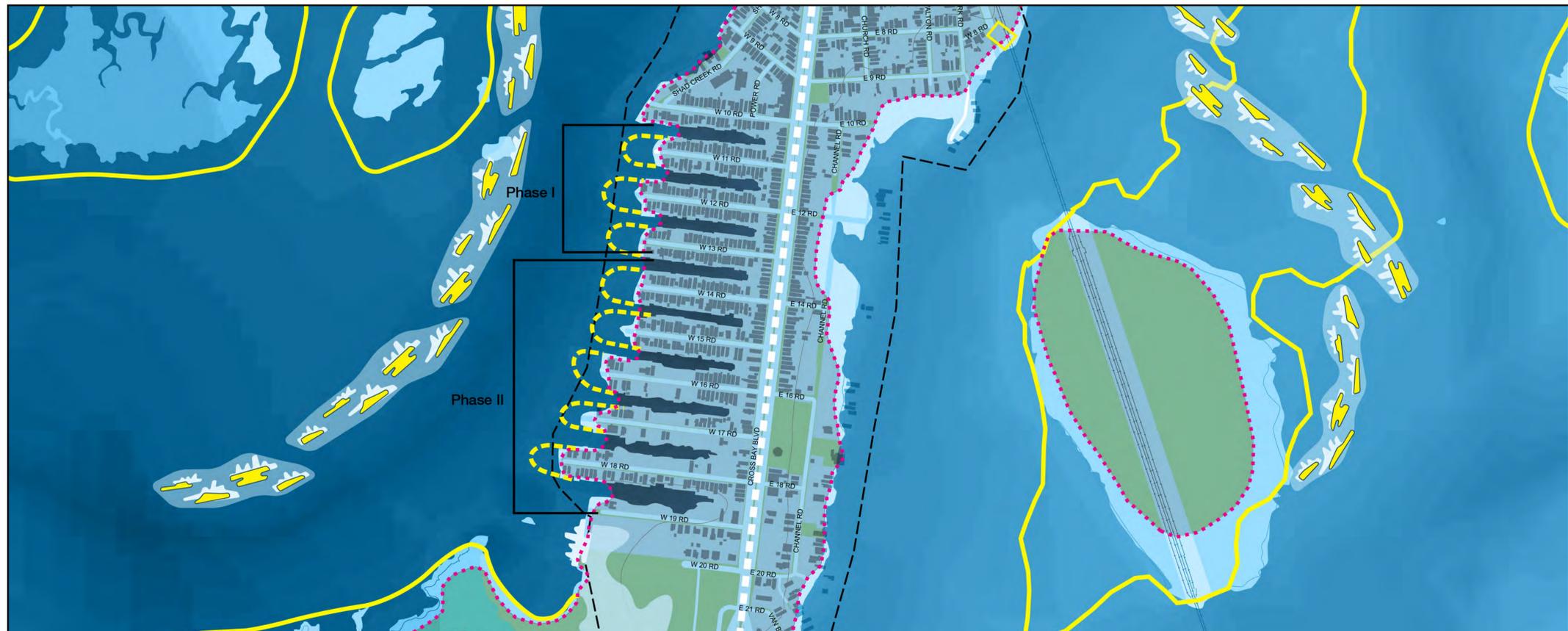
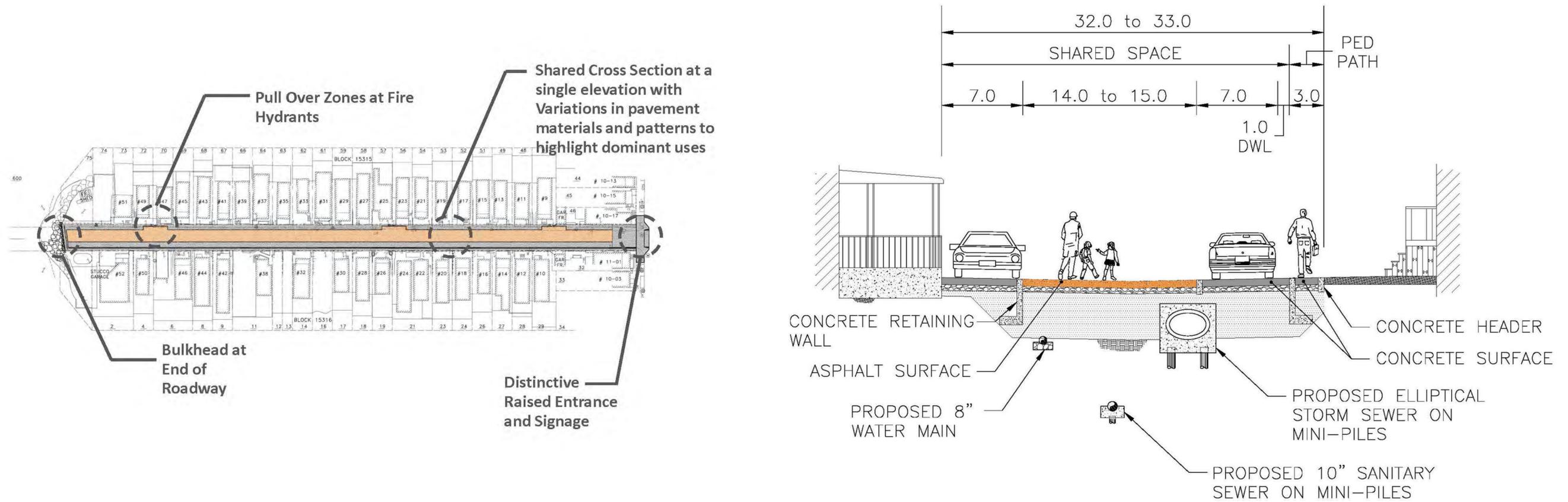
Project Needs

- Build out of second-floor facilities in new VFD facility
- Communications center to coordinate emergency response
- Generator system for emergency source of power to support VFD functions during power loss on island



Sustainable Infrastructure Strategies

Western Canal Blocks Street-Raising Project



Broad Channel NY RISING COMMUNITY RECONSTRUCTION



Sustainable Infrastructure Strategies

Natural Gas Pipeline, West Rd Back Flow Preventer, North-side Culvert



Broad Channel NY RISING COMMUNITY RECONSTRUCTION



Sunset Cove - Ecosystem Restoration and Resiliency Project

Strategies for incorporation of oysters into a rock revetment



The diagram to the left, describes the currently proposed location for incorporation of oysters. The proposed reefs / revetments offer opportunities for wave attenuation benefits as well as habitat enhancement.

Oyster spat on marl stone



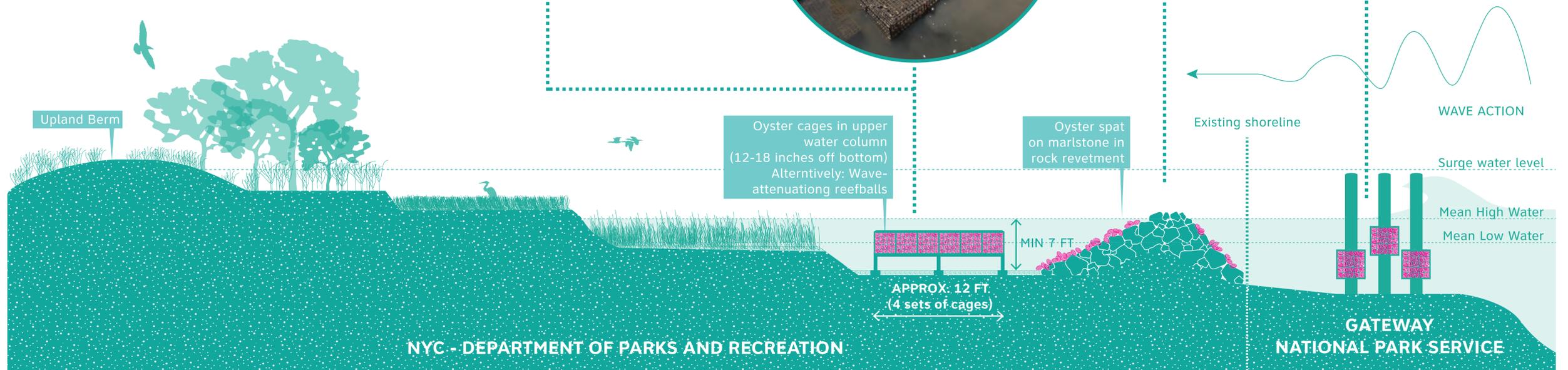
Oyster reef on existing hard infrastructure



Oyster Reef Balls



Oyster cages



Coastal Scrub Shrub & Maritime Forest

High Marsh

Low Marsh

Oyster Nurseries

Natural Rock Revetment

Habitat enhancement on existing pilings

