REVEALING THE WATERFRONT OF KINGSTON TO ITS INHABITANTS

SITE CONTEXT



SITE ISSUES



SARAH BOUTATA + KAYLA MOSEBROOK

AN EVOLUTIVE REVITALIZATION OF PONCKHOCKIE







2080s : 4.5" of tidal fluctuations + SLR

60" SLR

Estimated Cumulative Loss : \$ 41,010,220 Inundated Land Area : 192 Acres Damaged Buildings : 109

- - - -

2100s : 4.5" of tidal fluctuations + SLR

72" SLR

Estimated Cumulative Loss : \$48,546,746 Inundated Land Area : 218 Acres Damaged Buildings : 141









MASTERPLAN 2100s



Cumulative new Buildings : 9 Pervious Surface Area : 2.2 Acres

E STRAND STREET Cumulative new Buildings : 11 Pervious Surface Area : 3.4 Acres

ECOLOGICAL **P**ROGRAMMING

- 1. Rain Gardens
- 2. Controlled Wetland Migration 3. Waterfront Floodable Park
- 4. Groundwater fed Wetland



http://www.ciesin.columbia.edu/hudson-river-flood-map/

Socio Economic Programming

- 5. GILL STREET REBUILD
- 6. HISTORIC BUILDING REHABILITATION
- 7. INTEGRATED NEW DEVELOPMENT
- 8. Farmer's Market
- 9. BOAT SCHOOL
- 10. Boat Launch

Access Programming

A. MAIN PIER

(E)

- B. SECONDARY PIERS
- C. ADA Accessible Platform to the Pier
- D. TROLLEY TERMINUS STOP
- E. Parking



THE NEW WETLAND SYSTEMS AND THE WATERFRONT PARK

Wetlands play a large role in the city of Kingston, and reveal many things from different plant communities to animals that call them home. To continue our concept of green infrastructure through Gill Street and down to the waterfront, a series of wetlands will become incorporated into the landscape. The series will begin with wetland migration onto the Central Hudson site, which will be a remediated brownfield site. This site will be remediated to a point, and then continued monitoring will be established in case future remediation is necessary. The exising working pipes for the Central Hudson site will be raised so that they can continue to function properly. Wetland migration in this area will be revealed to the community by way of the new Waterfront Floodable Park, revealing not only the migration process, but other processes important to Kingston such as cave habitat and tidal fluctuations through land art and educational information. This series will end with a Groundwater-fed Wetland at the bottom of Gill Street.











CAVE STRUCTURES

Explore and uncover the history of the room and pilar Kingston Caves and the Limestone mining industry through land art. Inhabitants of the caves are now revealed in the art through signage and images.



WAVE WALLS

The Rondout Creek is more than what meets the eye. This creek is effected by the shifting of the tides from the ocean. Flowing throughout the park, the wave walls exhibit different information on the processes and forces at work on the Rondout Creek, and reveal them to the viewers. The walls lead the way and the eye to the water and wetlands of the Rondout.

A NEW DEVELOPMENT COMPONENT THAT ENCOURAGES THE PUBLIC ACCESS TO THE WATERFRONT



