KEEPING HISTORY ABOVE WATER 2017

RISING ABOVE THE STORM A CASE STUDY OF GERRITSEN BEACH



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New York City

NEW JERSEY

MANHATTAN

QUEENS

THE BRONX

• CYCLE ARCHITECTURE

BROOKLYN

STATEN ISLAND

GERRITSEN BEACH

KEEPING HISTORY ABOVE WATER 2017

image: bing.com/maps

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LONG ISLAND

Gerritsen Beach

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1000'

MANHATTAN BEACH

SHEEPSHEAD BAY

Image: Jsah.ucpress.edu KEEPING HISTORY ABOVE WATER 2017



Original Street View (1922)

image: gerritsenmemories.com KEEPING HISTORY ABOVE WATER 2017





image: gerritsenmemories.com KEEPING HISTORY ABOVE WATER 2017



Volunteer Fire Department (est. 1922, circa 1933)



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Gerritsen Beach

image: bing.com/maps KEEPING HISTORY ABOVE WATER 2017

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Superstorm Sandy

Superstorm Sandy

- •43 deaths
- •Almost 90,000 buildings in inundation zone
- •Nearly 2 million without power
- •\$19 billion in damage

SANDY SIZE AND WINDSPEED





60

INUNDATION



source: nyc.gov, "Sandy and its Impacts" c. 1



Before the Storm







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62

Build It Back

Registrants and Inundation Areas







Build it Back





- •Roughly 5,000 homes to be elevated (1-4 unit homes)
- •An estimated 10,000 1-4 unit single family homes require repairs and reconstruction
- •Over 200 registrants from Gerritsen Beach



source: NYC Housing Recovery

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ENVIRONMENTAL

PROTECTION

DEPARTMENT OF BUILDINGS

HOUSING RECOVERY OFFICE



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FEDERAL FUNDING

NEW YORK CITY

HOUSING RECOVERY OFFICE

DESIGN BUILD TEAM

DEPT. OF DESIGN & CONSTRUCTION



Department of Environmental Protection Housing Recovery Office Department of Buildings Department of Finance Insurance Assessor Asbestos Inspector Lead Inspection National Grid Electrician Con Edison Contractor Engineer Architect Surveyor Plumber FEMA

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House Variation



Damage Profile

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Rogue Additions



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Rogue Additions





Meeting the Requirements



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Elevation





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image: Build it Back Twitter KEEPING HISTORY ABOVE WATER 2017

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Reconstruction



1950 Sanborn Map





2007 Sanborn Map



Reconstruction in Original Footprint

~ C ~

2000 Anni.:



NOTE: AS PER ZR 12-10, A YARD IS AN UNDESTRUCTED AREA FROM BASE PLANE TO SKY, MEASURED BY DEPTH OR WIDTH FROM THE LOT LINE. PERMITTED OBSTRUCTIONS IN YARDS ARE AS PER ZR 32-44 AND ZR 64-322 44

Reconstruction in Original Footprint





Reconstruction in Original Footprint







Reconstruction Permitted by Zoning



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EC.



Reconstruction Permitted by Zoning



RISING ABOVE THE STORM A case study of gerritsen beach









After

image: Build it Back Twitter





After









After

image: Build it Back Twitter







KEEPING HISTORY ABOVE WATER 2017

After

Thank you!

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