

PROMOTING FLOOD RESILIENCE, PRESERVING AFFORDABILITY

EAST VILLAGE | LOWER EAST SIDE | TWO BRIDGES





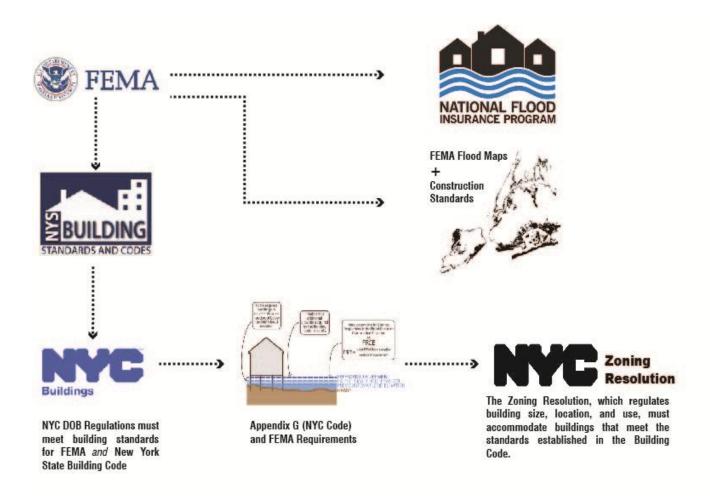
East Village | Lower East Side | Two Bridges AGENDA

- 1) NYC Resiliency Overview
- 2) DCP Resilient Neighborhoods Initiative
- 3) Study Overview
 - Study Area Context
 - Study Themes
 - Schedule





East Village | Lower East Side | Two Bridges RESILIENCY INITIATIVES FROM FEDERAL TO LOCAL LEVEL





NYC Resiliency Challenges

- Wholesale retreat is not an option for NYC.
- A lesson from Sandy: Buildings can be protected if built to contemporary code standards.
- Changes to flood maps and the National Flood Insurance Program (NFIP) pose a new economic challenge.

100-Year Flood Zone		
Residents	398,000	
Jobs	271,000	
Buildings	68,000	
1-4 Family	53,000	
Floor Area (Sq Ft.)	534M	

^{*} Numbers are rounded for clarity

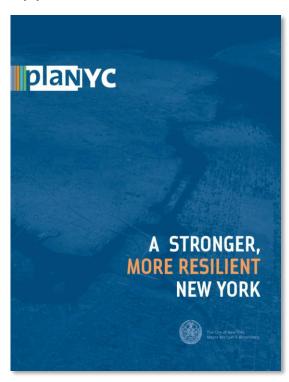
NYC is taking a multi-layered approach to resiliency, or the ability to recover from a storm.





A Stronger, More Resilient New York

The City's plan to build resiliency and make all New Yorkers safer is a multi-layered approach that is ambitious, achievable, and based on the best available science.



Strengthen coastal defenses

- Complete existing USACE coastal risk reduction projects
- Expand natural protections and other innovative measures

Upgrade buildings

- Amend the building code to strengthen new construction
- Incent investments in existing buildings

Protect infrastructure and services

- Harden critical assets and supply chains
- Expand natural infrastructure systems

Make neighborhoods safer and more vibrant

- Advocate for flood insurance affordability
- Address underlying challenges during the rebuilding process

The City's 257 initiatives comprise a comprehensive plan to reduce the risk of extreme weather and climate change. This innovative plan includes funding, an implementation schedule, and can be achieved over the next ten years.



Purpose

Work with communities to identify changes to zoning, land use, and other actions that support the vitality of neighborhoods and help residents and businesses withstand and recover quickly from future storms and other climate events.

Make every community better than it was before Hurricane Sandy

Overall Planning Goals

- Reduce risks from natural hazards such as flooding and coastal storms.
- Foster economically and socially-vibrant communities that are able to adapt to changing conditions.
- Coordinate land use planning with rebuilding activities and infrastructure investment.





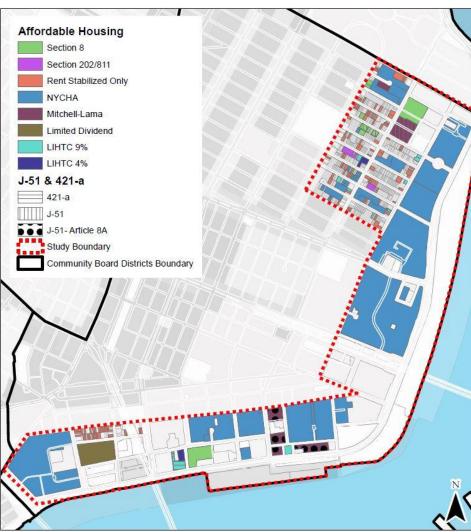






East Village | Lower East Side | Two Bridges | NEIGHBORHOOD ASSETS





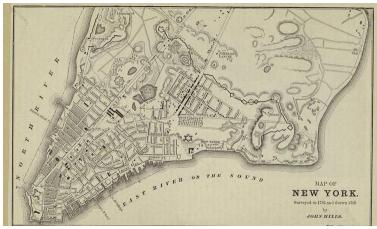




East Village | Lower East Side | Two Bridges A SHORT HISTORY



Source: "View of New York, from Brooklyn Heights," Currier, Nathaniel, Lithographer, housed in NYPL Mid-Manhattan Library / Picture Collection .



Source: "Map of New York," Hills, John, Surveyor, housed in NYPL Mid-Manhattan Library / Picture Collection .



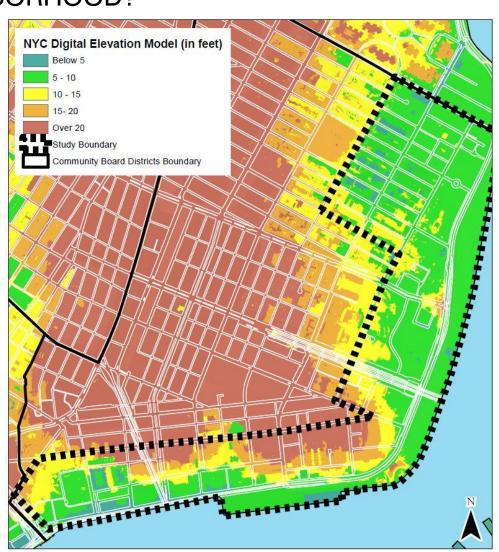


East Village | Lower East Side | Two Bridges WHAT'S BENEATH YOUR NEIGHBORHOOD?

Range throughout study area:

Below 5' to Over 20'

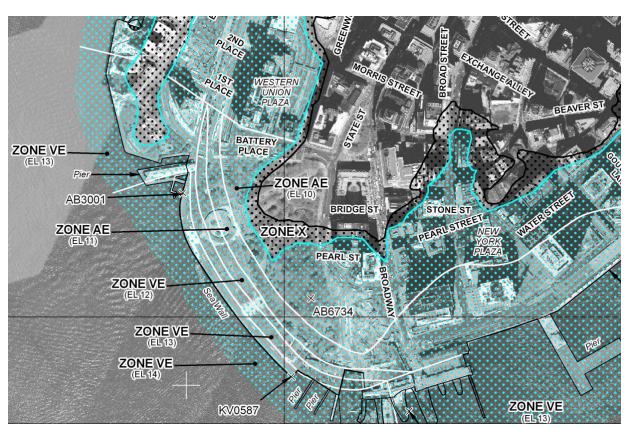
- Much of the study area is low-lying
- Most of the study area has a ground elevation below 10 feet







East Village | Lower East Side | Two Bridges MORE ON FEMA MAPS



An example of the FIRM for Department of City Planning, 22 Reade St.

Key functions:

- Developed as part of the National Flood Insurance Program (NFIP)
- Basis for understanding current flood risk
- Inform building code standards

NYC's first FIRMs were issued in 1983

- 1983 maps based on outdated topography and weather data
- Post Hurricane Sandy FFMA issues PWMs
- FIRMs to be adopted 2016





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East Village | Lower East Side | Two Bridges WHAT HAS CHANGED?

ATTRIBUTE (By number)	1983 FEMA FIRMs	2013 FEMA PFIRMs
Blocks	38	49
Buildings	217	503
Dwelling Units	16,257	20,706





East Village | Lower East Side | Two Bridges | COMMUNITY CHARACTERISTICS

- Fixed income
- Aging in place
- Limited mobility
- Deep-rooted
- Affordable housing is a key asset





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To Be Studied

- Insurance and retrofitting costs for multi-family affordable housing developments
- Retrofitting options for multi-family affordable housing developments
- Identification of zoning modifications to support retrofits







East Village | Lower East Side | Two Bridges | STUDY THEME - RETAIL

To Be Studied

- Insurance and retrofitting costs for local retail
- Retrofitting options for local retail
- Identification of zoning modifications to support access to local retail







East Village | Lower East Side | Two Bridges | STUDY THEME - COORDINATION

Initiatives

- Rebuild by Design
- New York Rising
- LESReady!
- City Agencies















Schedule

