

# RESILIENCY AND HAZARD MITIGATION PLAN



## HISTORIC PRESERVATION & OUTREACH UPDATES

Presented to:

**City of New Bern**

**Core Planning Team**

October 2020

# Agenda

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- › Welcome and Roll Call
- › Activity from Past Month
- › Survey Findings
- › Historic Preservation
- › Group Discussion
- › Next Steps



- › **Flexible agenda**
- › **Post questions to the chat function to help facilitate discussion at the end**
- › **Roll call!**

# Activity from Past Month

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- › Survey completion
- › Development of departmental questionnaire
- › Vulnerability Assessment progress
- › Site Visit – Historic Preservation



› **Things are moving forward!**

# Survey Findings



- › Most people who completed the survey *live in New Bern* and *do not have flood insurance*; **most own single-family homes not located in a floodplain**. Most have lived in New Bern for *1-5 years*.
- › Most have experienced or been impacted by flooding caused by *hurricanes and tropical storms, including storm surge* and as a result, **most are very concerned** about this issue.
- › *Economic, People, and Cultural/Historic* are the top 3 assets (in order) ranked as being the **most vulnerable to flood hazards** in New Bern.
- › *City/County Emergency Operations Centers, Elder Care / Emergency Medical Services Facilities and Shelters, Hospitals and Medical Facilities, Major Bridges, Police Stations and Small Businesses* were ranked as the **most important community assets**.

- › Survey closed on September 24
- › Total Respondents: 275
- › Average Survey Respondent Demographics:
  - › Older (55-65+)
  - › Historic District Resident
  - › 1-2-person household
  - › 28562 and 28560 Zip Codes *only*
- › Opportunity for new audience outreach to capture our target demographic



# Survey Findings

- › *Protecting critical facilities, protecting and reducing damage to utilities, strengthening emergency services, preventing development in flood hazard areas* were **ranked highest as citizen priorities for flood hazard planning.**
- › *Regulate new construction to incorporate flood protection measures, design and construct permanent structural protection systems, and restrict new development in flood prone areas* were **ranked highest for steps the local government can take to reduce/eliminate the risk of future flood hazard damage.**
- › *Emergency services, property protection, and public education and awareness* were **ranked as most important activities for the community to pursue.**

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# Survey Findings

- › *Home/neighborhood, business/work, downtown, and school* were **ranked most important to protect**.
- › **Most people receive information** via *social media, internet, and mail*.
- › *Installed smoke detectors in home, created a utility shutoff procedure, established a financial plan, discussed with family, and developed an emergency plan* are what **most people have done, planned, or considered for disaster preparedness activities**.

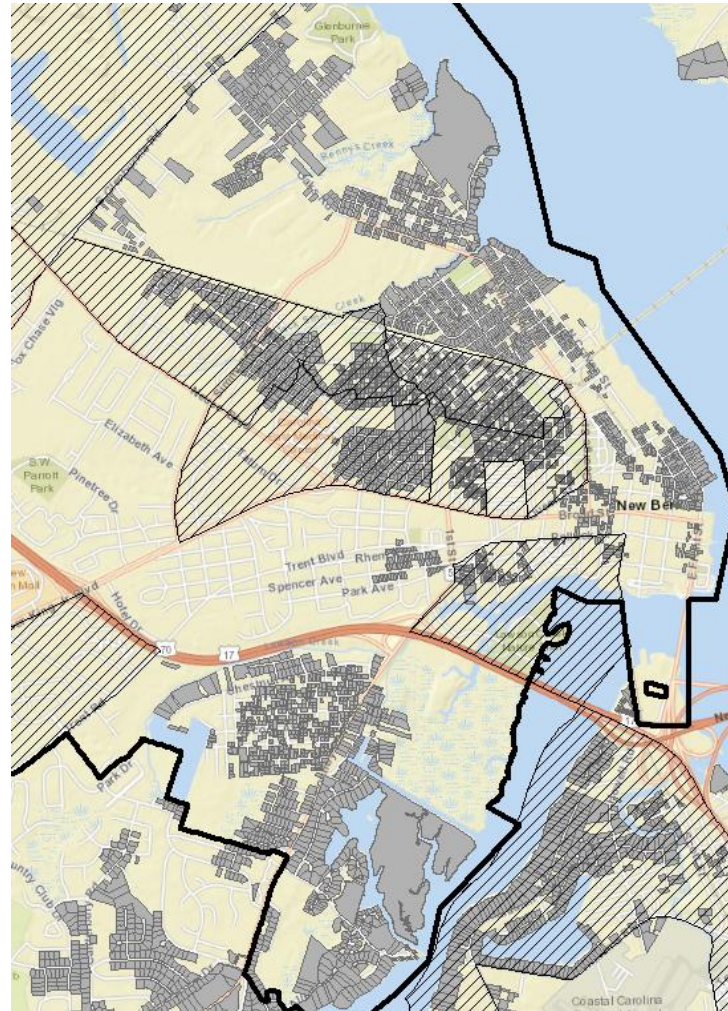
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# GIS Findings to Support Outreach



- › Key neighborhood areas
  - › **High social vulnerability:**
    - Duffyfield (inc. Craven Terrace) and Medical Center Area
    - Trent Court
    - Howell Rd. Area (north of Regional Airport, outside city limits)
  - › **Moderate social vulnerability:**
    - Sunnyside and north of railroad track neighborhoods (inc. Woodrow)
    - Pembroke Neighborhood (south of HWY 70/17)



- › Neighborhood areas identified for outreach based on:
  - › Homes in the floodplain
  - › Hurricane Florence EOC calls
  - › Socioeconomics and social vulnerability

# Historic Preservation & Hazard Mitigation Planning

- › *Historic preservation planning* allows for the protection of historic properties before they are threatened.
- › *Hazard mitigation planning* allows for the protection of life and property from damage caused by hazards.
- › *Integrating* these planning processes ensures future growth of safe and *resilient* historic communities.
- › *Historic Property* - prehistoric or historic district, site, building, structure or object listed in or eligible to the National Register of Historic Places.
- › *Cultural Resource* - "moveable heritage" = artifacts, statuary, artwork, archival documents, family heirlooms, photographs, written records.



## Integrating Historic Property and Cultural Resource Considerations Into Hazard Mitigation Planning

State and Local Mitigation Planning How-To Guide

FEMA 386-6 / May 2005





# Historic Preservation: Goals of Integrated Planning

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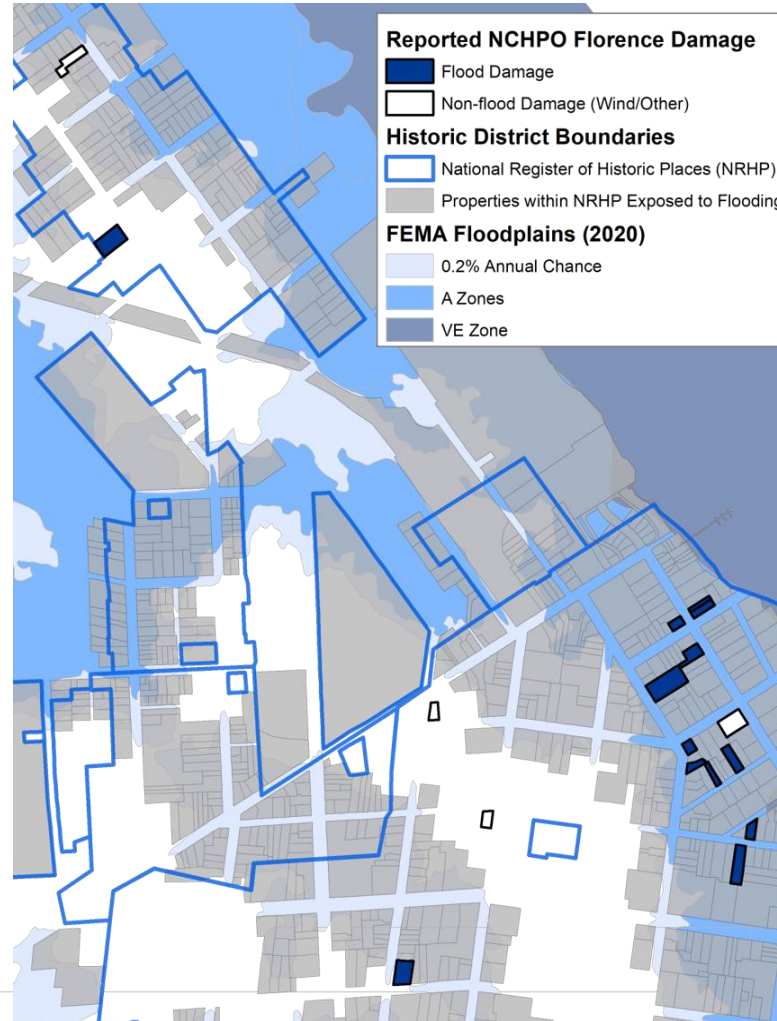
- › *Identify & organize resources* than enhance the capability for incorporating historic property and cultural resources into hazard mitigation planning.
- › Assess *risk* by determining which properties and resources are likely to be damaged in a disaster and *prioritize* those MOST important to the community for protection.
- › *Evaluate hazard mitigation alternatives* for properties and resources using benefit-cost analysis, STAPLEE and other decision-making tools
- › *Write and implement a hazard mitigation plan* that addresses historic properties and cultural resources.



- › "To protect irreplaceable cultural resources requires multijurisdictional discussions of how best to protect or adapt our built environment should be happening now, not the day before the hurricane arrives, the flood comes, or when sea level rise is more evident."
- › - North Carolina Climate Risk Assessment and Resilience Plan, June 2020

# Historic Preservation: Organize Resources

- › Assess building/site characteristics most impacted
- › Determine total area of potential effect for future conditions
- › Identify the National Register or locally designated historic properties & cultural resources
- › Determine which neighborhoods have not yet been designated, but may be vulnerable
- › Decide how to assess public sentiment and/or economic importance for historic properties / cultural resources



- › Build the Planning Team - Identify & Engage the Core Planning Team
- › Assess Community Support - Historic Survey / GIS / Hazard Mitigation / Plan Review
- › Engage the Public – Identification and Audience Engagement



# Historic Preservation: Assess Risks & Priorities

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- › Create an informed public engaged in hazard preparedness
- › Determine hazard impacts specific to building characteristics, archaeological features and environment
- › Compile existing survey information in central database for floodplain area
- › Determine preservation feasible structural and non-structural adaptation strategies
- › Establish valuation estimates for historic property loss or displacement
- › Identify economic incentives to leverage property owner investment in adaptation
- › Assess historic preservation considerations for historic properties and cultural resources important to protect/adapt for future conditions
- › Consider community sentiment for places important to protect/adapt to future conditions.

- › Identify Hazards
- › Profile Hazard Events
- › Inventory Assets
- › Estimate Loses



# Historic Preservation Risks & Priorities: Survey & Inventory



- › Name/Address of Resource
- › Date of Construction
- › Type of Property
- › Square Footage
- › Structural System
- › Primary Materials
- › Current Function
- › Current Condition
- › Owner Interest in Mitigation



- › FEMA Worksheet #3 -  
Inventory Historic Property  
and Cultural Resource  
Assets



# Historic Preservation: Survey & Inventory

- › Level of Property Vulnerability (High, Medium, Low)
- › Loss to Structure (\$)
- › Loss to Contents (\$)
- › Loss of Function or Use (\$)
- › Displacement Cost (\$)
- › Total Loss for Hazard Event (\$)
- › Level of Community Value for Ranking Purposes (H/M/L)



FEMA Worksheet #3 –  
Inventory Historic Properties  
and Cultural Resource  
Assets

Survey information collected  
by Name/Address of  
property in Hazard Area

Determine Hazard Event &  
baseline for loss

# Historic Preservation: Community Value

- › Historic Designation (National Register, Locally designated)
- › Geographic Context of Significance (National, Tribal, State, Local)
- › Level of Significance (High, Medium, Low)
- › Public Sentiment (H/M/L)
- › Economic Importance (H/M/L)
- › Degree of Integrity (H/M/L)
- › Total Level of Community Value (H/M/L)



FEMA Worksheet #4 –  
Determine Community Value  
for Historic Property and  
Cultural Resource Assets

Survey information collected  
by Name/Address of  
property in Hazard Area

Add ranking of Community  
Value (Low / Medium / High)  
to Worksheet #3



# Historic Preservation: Community Value Survey



- › What actions have you taken to make your property more resistant to flooding?
- › How can the City lead resilience efforts in adapting historic properties to future conditions?
- › How can the City work with property owners to ensure the community rebuilds better after a disaster?
- › In way ways can the City integrate flood adaptations actions into city policies?
- › What tools and best practices should be available to assist property owners in minimizing flood risk?
- › What landmarks or community spaces do you want to see better protected against a flooding disaster?



## FEMA Worksheet #4 – Determine Community Value for Historic Property and Cultural Resource Assets

**Public Sentiment is based on actual input from the public. This is done through public meetings, questionnaires, interviews, and visual definition surveys.**

**Also value and prioritize historic buildings and districts for their economic importance – tourism value.**



# Historic Preservation: Community Value



- › The Sacred Structures in Small Towns
  - › Case study: Manteo, NC
- › How to determine Community-stated preferences vs. Actual practice through behavior mapping
- › Ground truthing public sentiment
- › Created a map of "sacred structures" similar to a land use plan that needed preservation



# Historic Preservation: Economic Value

*Type of Structure (Residential, Commercial, Industrial, Religious/Non-profit, Government, Education)*

## In Hazard Area

- › # & \$ Value of Historic Properties
- › # & \$ Value of all properties
- › % of properties that are historic
- › Value of Historic Properties as % of Total Property Value

## In New Bern

- › # & \$ Value of Historic Properties
- › # & \$ Value of all properties
- › % of properties that are historic
- › Value of Historic Properties as % of Total Property Value

## FEMA Worksheet #2 – Determine Extent and Value of Historic Properties

- › Number & Value of Properties in Hazard Area
- › Number & Value of Properties in New Bern
- › Number & Value of Historic Properties in New Bern
- › Number & Value of Historic Properties in Hazard Area



# Historic Preservation: Evaluate Mitigation Alternatives

Prevention - Regulatory Actions & Performance Standards

Property & Resource Protection

Structural Diversions

Public Education and Awareness

Natural Resource Protection for Landscape & Archaeological Sites

- › "Mitigation actions will vary from jurisdiction to jurisdiction. The alternatives you identify should provide some measure of structural or physical protection to historic properties and cultural resources while maintaining historic integrity and a sense of place."
- › - FEMA 386-6 / Integrating Historic Property and Cultural Resource Considerations Into Hazard Mitigation Planning.



# Historic Preservation: Property & Resource Protection

Temporary Protective Measures

Site & Landscape Adaptations

Protect Utilities

Dry Floodproofing

Wet Floodproofing

Fill the Basement

Elevate on a New Foundation / On the Interior

Abandon the First Story

Move the Historic Building

- › US Dept of the Interior  
National Park Service
- › Secretary of the  
Interior's Standards for  
the Treatment of Historic  
Properties
- › Guidelines on Flood  
Adaptation for  
Rehabilitating Historic  
Buildings



# Historic Preservation: Draft, Implement & Monitor Plan

- › Formulate Goals & Objectives - Solicit Public Input
- › Identify, Evaluate and Prioritize Actions
  - › Preservation Priorities
  - › STAPLEE – Social Technical, Administrative, Political, Legal, Economic, Environmental
  - › Benefit-Cost Analysis
- › Prepare an Implementation Strategy
  - › Responsible parties & partners
  - › Funding
  - › State/County Cooperation
  - › Regulatory review
- › Monitor
  - › Evaluate & update the plan
  - › Update inventory data



- › **"Your hazard mitigation plan should be written so that anyone who reads it can easily gain an understanding of the risks facing historic properties and cultural resources in the community, as well as the community's intended strategies for mitigating those risks."**

- › **- FEMA 386-6**





# Historic Preservation

Site visit 9/26/20

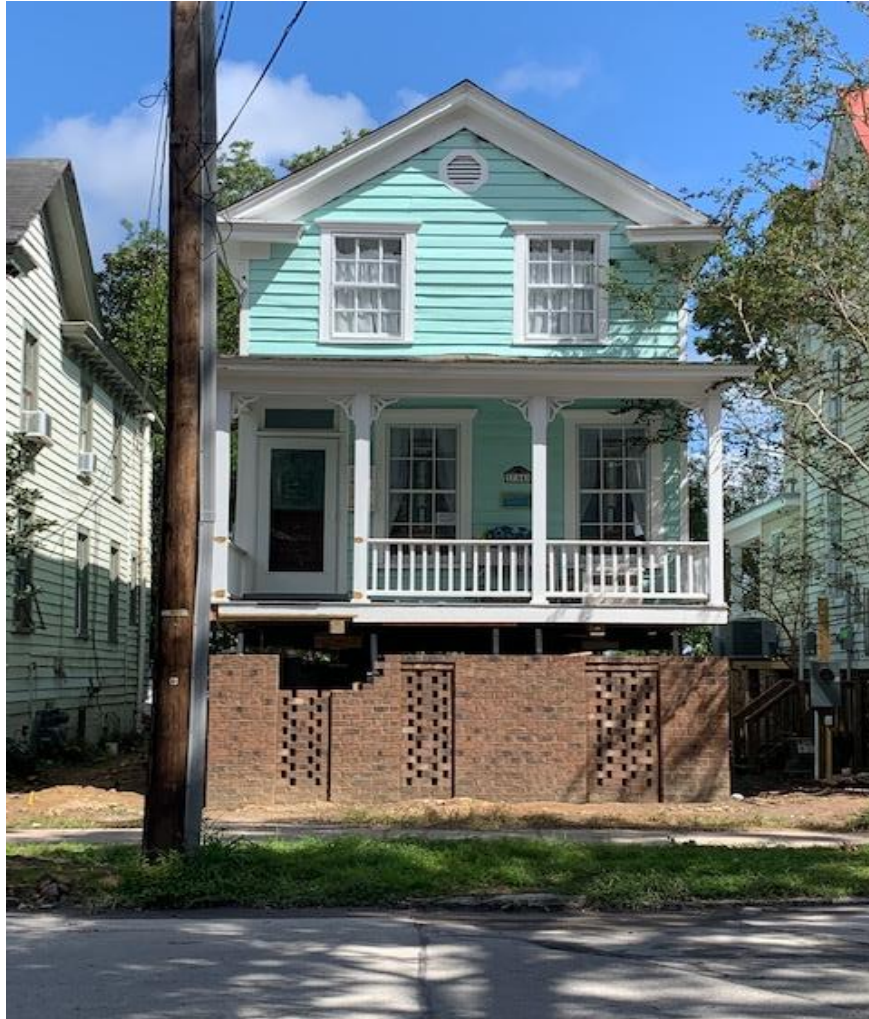


- › 212 – 210 South Front Street
- › Opportunity to develop Design Guidelines for Adaptation, specific to New Bern
- › Preservation of historic significance and integrity while enduring change
- › Integrity = conveying significance through
  - › location;
  - › setting;
  - › design;
  - › materials;
  - › workmanship;
  - › association;
  - › feeling



# Historic Preservation

Site visit 9/26/20



- › 704 East Front Street
- › Elevation in progress!
- › Design Guidelines
- › Adaptation Guidelines



# Historic Preservation

Site visit 9/26/20



- › Streetscape: corner of Main Street & Murray.
- › 1 ½ blocks west of New Bern Historic District
- › Properties on the left have been surveyed.
- › Historic Preservation extends outside of the Historic Districts
- › Opportunities for outreach & extension of Design Guidelines

# Historic Preservation

Site visit 9/26/20



## North Carolina History Center

- › Built in 2010
- › Experienced damage during Hurricane Florence
- › Exhibition spaces were inundated between floodwaters and roof leaks
- › No strong Disaster Plan in place for protecting cultural resources





# Historic Preservation

Site visit 9/26/20



- › **Visitor's Center**
- › **Floodwaters rose to 13.5'**
- › **Damage has not yet been repaired while more has occurred in the past six months**
- › **Opportunity for increased collaboration between state-owned properties and the City to preserve cultural resources**

# Group Discussion

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- › **Questions about the material presented today?**
- › **Thoughts and input moving forward?**

- › **We will start with any questions that came in via the Chat box**
- › **Any feedback is welcome**
- › **Feedback can also be emailed to Mike or Amanda following the meeting**



# Next Steps

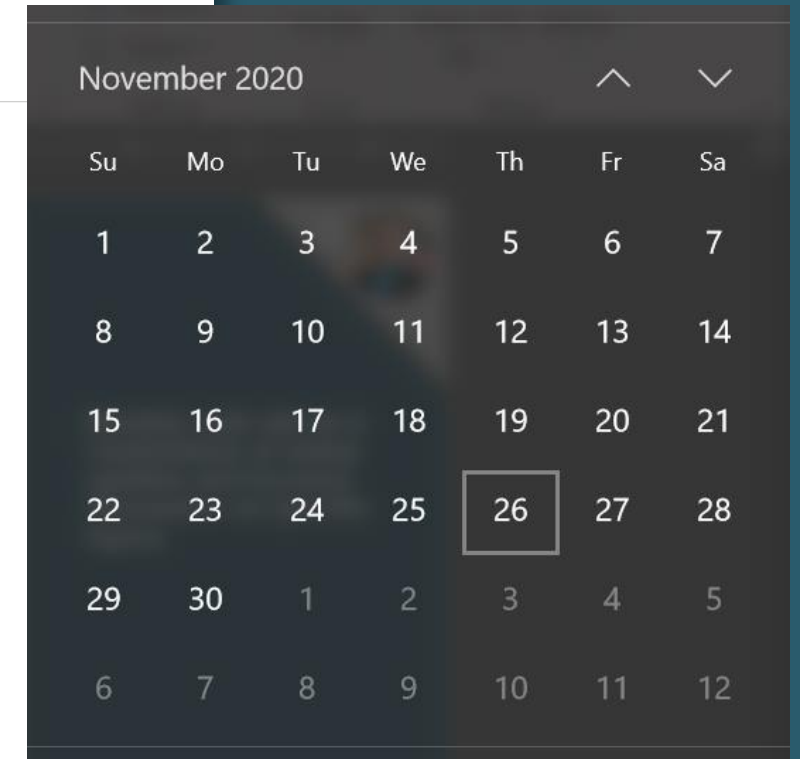


## › Next Planning Team Meeting

- Thursday, November ?
- Next month's focus topic

## › Ongoing Work

- Departmental questionnaire and follow-up call
- Site visits – December 9 & 10 (Preservation Team)
- Public involvement
- Stakeholder engagement
- Preliminary vulnerability assessment results



- › **Monthly calls will be a combination of status updates and focused discussion on specific topics**



# THANK YOU

Moffatt & Nichol  
4700 Falls of Neuse Road  
Suite 300  
Raleigh, NC 27609  
Tel: 919.781.4626

[moffattnichol.com](http://moffattnichol.com)

