

# Adaptation Planning Phase 1

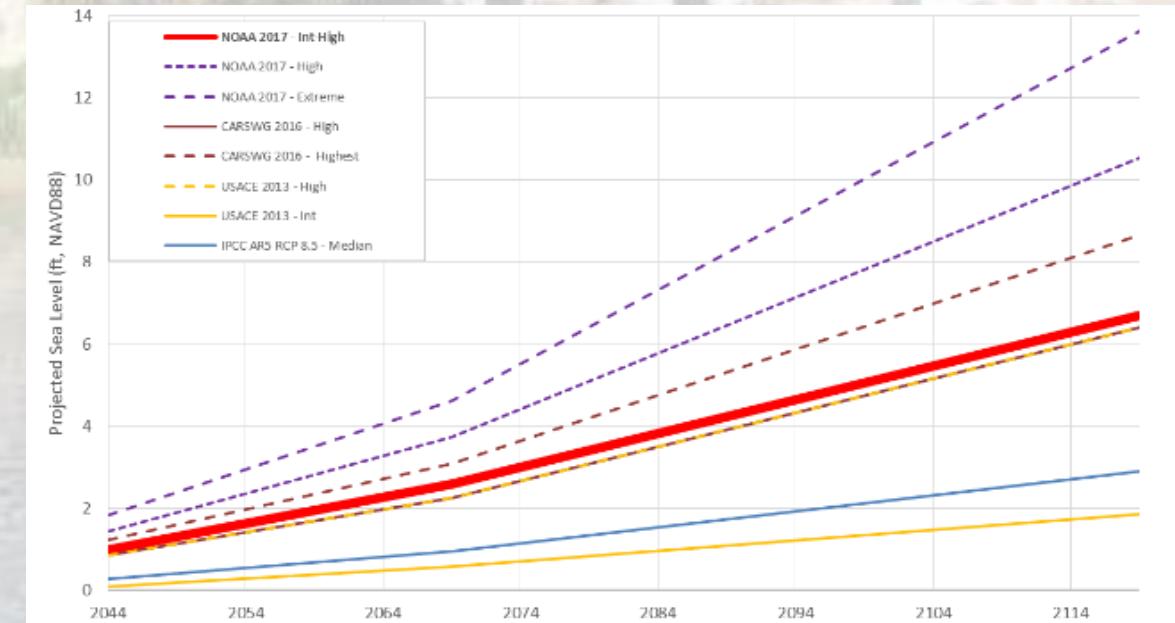
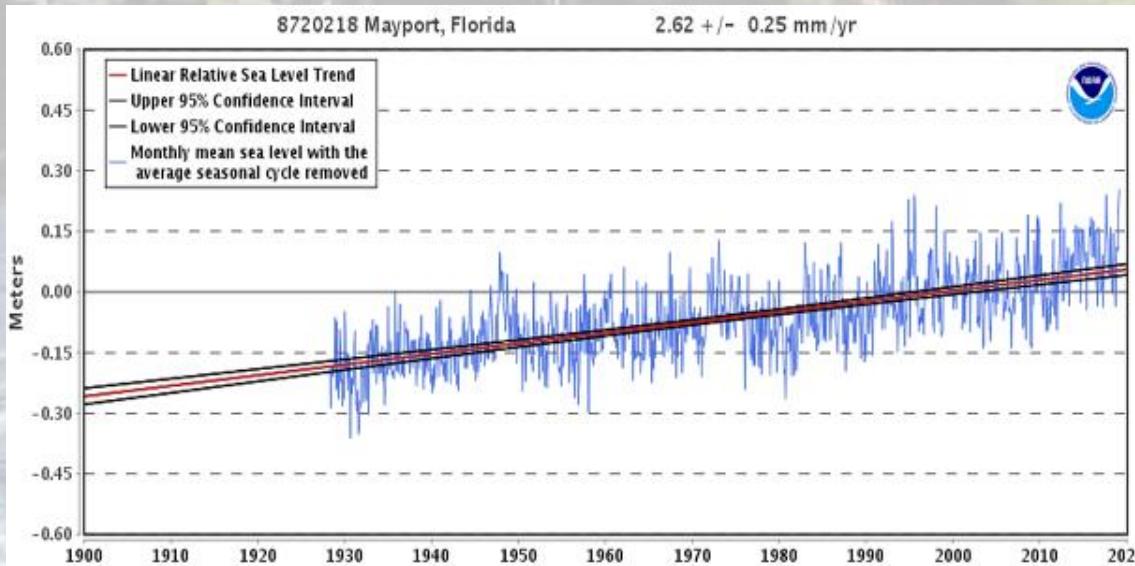
Atlantic Beach, FL

May 18, 2021



# Why are we concerned with Adaptation?

- Tidal records indicate steady rise in local sea level over past 90 years
- Rate of change in sea level rise is accelerating
- Atlantic Beach is flat and surrounded by tidal waters
- Parts of Atlantic Beach already experience “sunny day” flooding



# Coastal Vulnerability Assessment

- Completed in June, 2019 / key step in adaptation planning process
- Updated to account for Utility Service areas outside of City Limits
- Modeled 25, 50, & 100 year scenarios for:
  - Sea Level Rise
  - Nuisance or “Sunny Day” flooding
  - Storm Surge & Rainfall Flooding
  - 100-Year Flood Risks
- Assessed potential risks to property and infrastructure/facilities

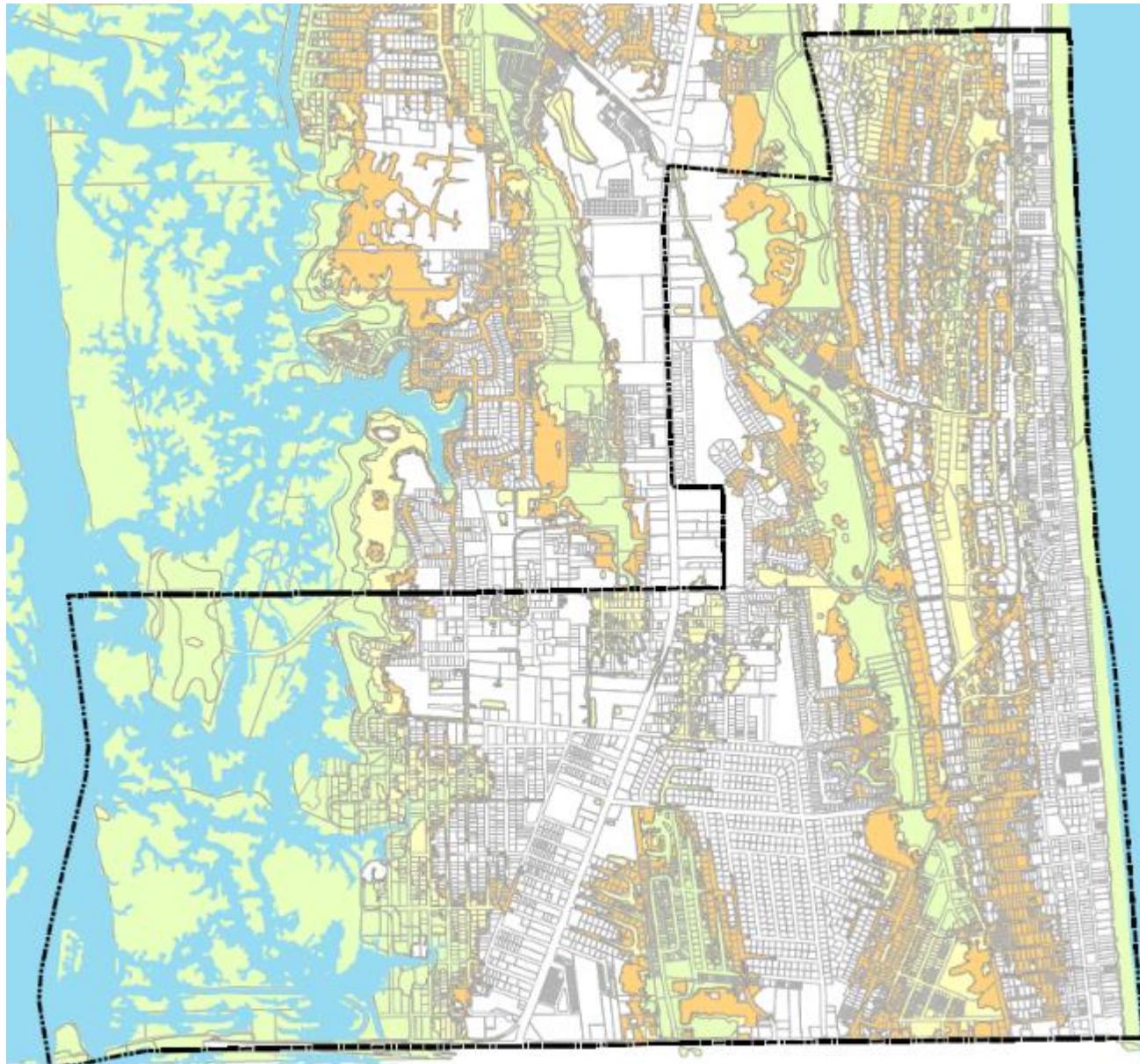


# Goals of Adaptation Plan

- Protect, plan for and adapt to the impacts of sea level rise and climate change for our citizens and infrastructure
- Identify goals and strategies to minimize risk
- Establish a process to implement strategies
- Identify the tools to take action
- Identify priorities and timeframes for implantation of strategies



# Coastal Vulnerability Assessment Results



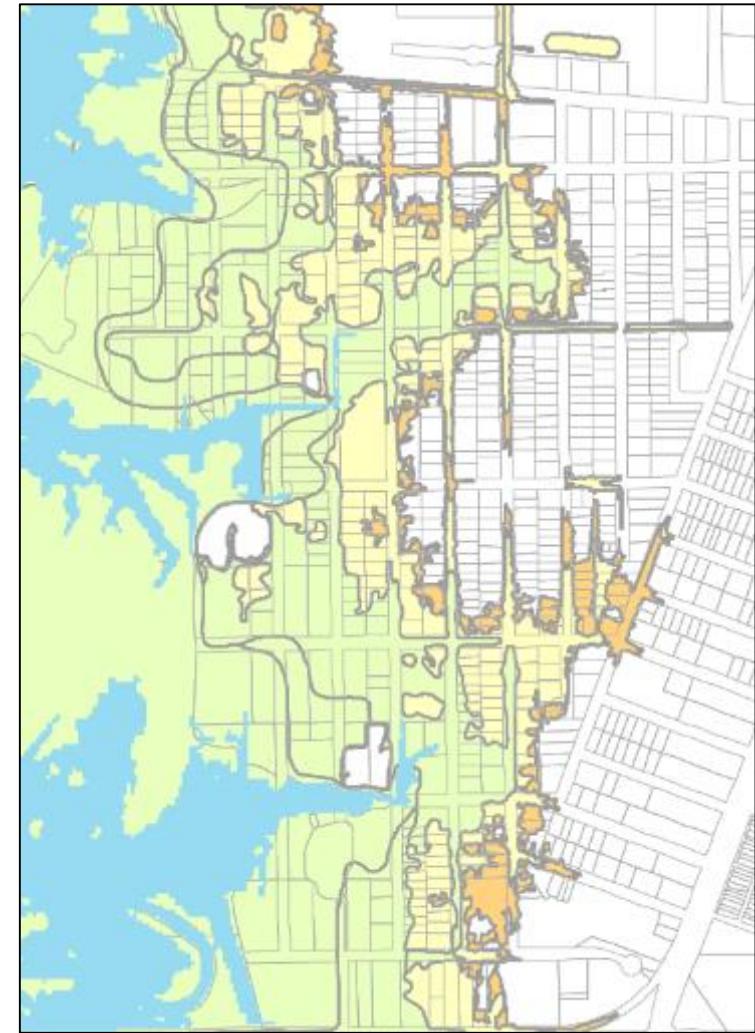
- **Projected Future Extent of:**
  - Nuisance Flooding
  - 100-Yr Flood Events
- **Exposure Assessment:**
  - Properties & Buildings
  - Critical Facilities
  - Infrastructure
- **Interactive Map Link**

## Projected Flood Zone

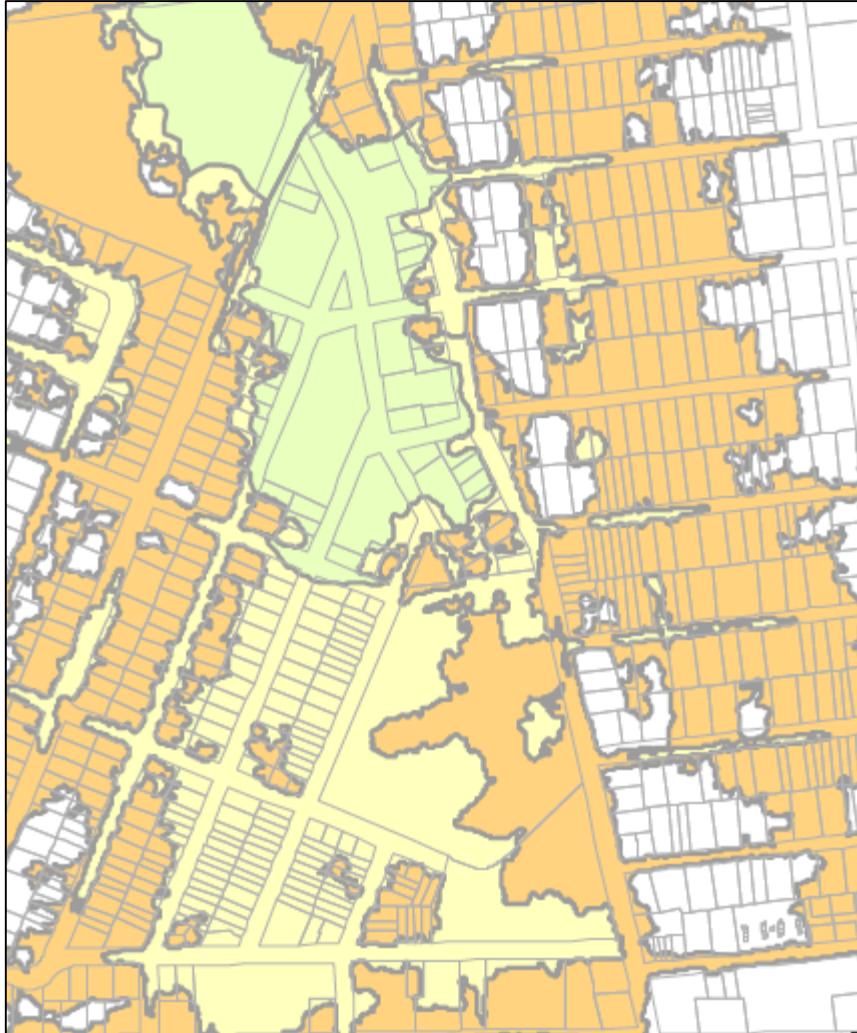
- Current
- 2044
- 2069
- Atlantic Beach City Limits

# Focus Areas of Concern

Marsh Oaks



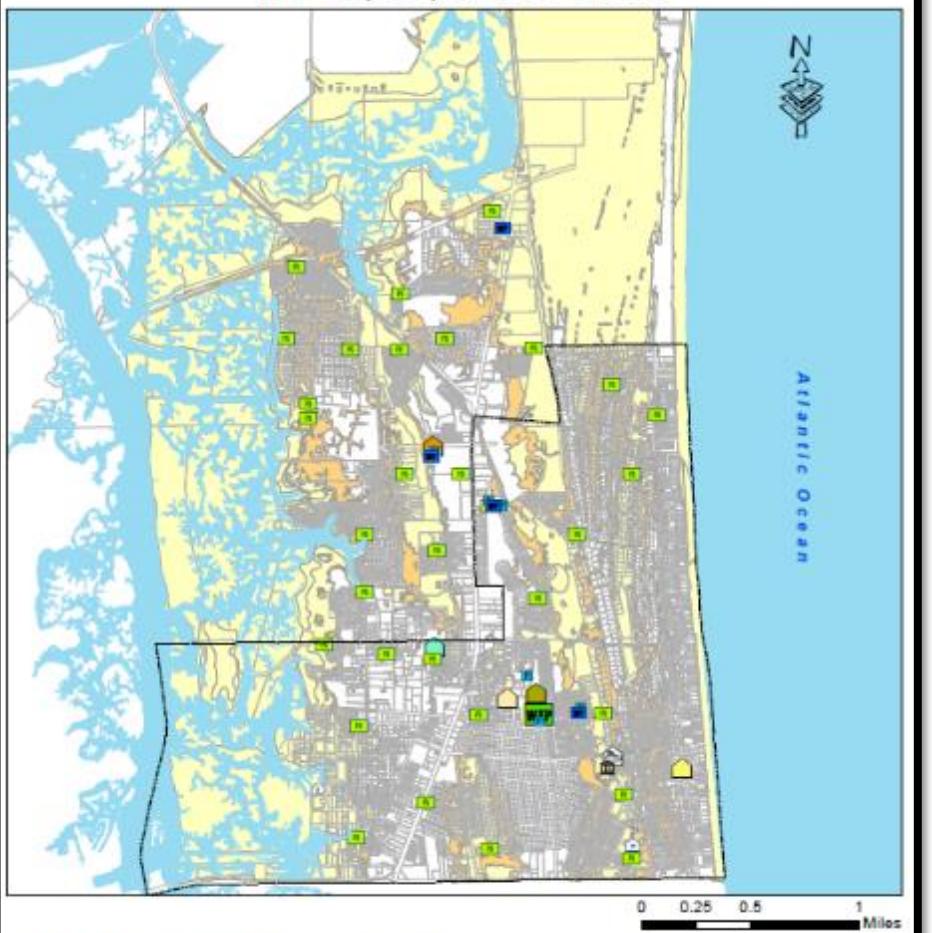
Salt Air /Core City



Aquatic Gardens



## Atlantic Beach Projected 100 Year Flood Zones for 25, 50, & 100 Years



# Vulnerable Critical Facilities & Infrastructure

| 2069 Scenarios    | City Hall, Police & Fire Station | Public Utilities Facility | Public Works Facility | Lift Stations (#) | Potable Water Wells (#) | Potable Water Plants (#) | Waste-water Facility | Atlantic Beach Elem. School | Adele Grage Center | Gail Baker Center | Jordan Park Center |
|-------------------|----------------------------------|---------------------------|-----------------------|-------------------|-------------------------|--------------------------|----------------------|-----------------------------|--------------------|-------------------|--------------------|
| SLR-Only          | N                                | N                         | N                     | Y (1)             | N                       | N                        | N                    | N                           | N                  | N                 | N                  |
| Nuisance Flooding | N                                | N                         | N                     | Y (7)             | Y (2)                   | Y (1)                    | N                    | N                           | N                  | N                 | N                  |
| 100-Yr Flood Risk | Y                                | N                         | N                     | Y (23)            | Y (4)                   | Y (2)                    | N                    | Y                           | N                  | Y                 | N                  |

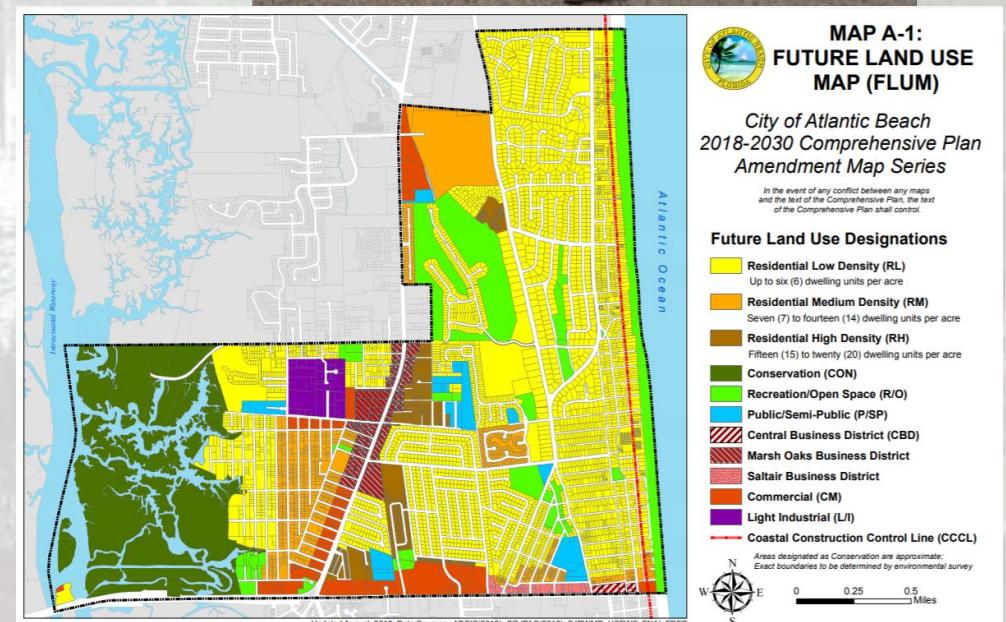


November, 2015 flooding

# Legal Context

## Comprehensive Plan

- Future Land Use Element – discoursing urban sprawl and conserving natural resources
- Conservation and Coastal Management Element
- State regulations allow – designation of Adaptation Action Areas (AAAs)



# Litigation Risk & Sea Level Rise (SLR)

- COAB could be sued:
  - ❖ claiming injury from limitations on property use or adverse effects to property values

**OR**

- Face legal challenges when implementing some adaptation strategies



# Coastal Vulnerability - Exposure

- COAB located between Ocean and Intracoastal Waterway –with low elevations
- Identified Coastal Flooding – storm flooding and nuisance flooding using SLR scenarios identified in the Coast Vulnerability Assessment.

*Table 3-1 - Exposure of Property by Scenario*

| 2044 Scenarios    | Number of Parcels Impacted (% of All Parcels) | Number of Buildings on Impacted Parcels | Land Value of Impacted Parcels | Building Value of Impacted Parcels | Taxable Value of Impacted Parcels |
|-------------------|---|---|--------------------------------|------------------------------------|-----------------------------------|
| SLR Only          | 262 (4%)                                      | 391                                     | \$38,694,113                   | \$87,283,163                       | \$106,064,775                     |
| Nuisance Flooding | 249 (4%)                                      | 372                                     | \$33,564,377                   | \$90,415,917                       | \$111,555,621                     |
| 100-Yr Flood      | 1,035 (17%)                                   | 1,085                                   | \$100,693,496                  | \$191,438,845                      | \$233,842,120                     |

| 2069 Scenarios    | Number of Parcels Impacted (% of All Parcels) | Number of Buildings on Impacted Parcels | Land Value of Impacted Parcels | Building Value of Impacted Parcels | Taxable Value of Impacted Parcels |
|-------------------|---|---|--------------------------------|------------------------------------|-----------------------------------|
| SLR Only          | 391 (6%)                                      | 509                                     | \$48,601,525                   | \$108,385,260                      | \$134,427,495                     |
| Nuisance Flooding | 797 (13%)                                     | 910                                     | \$82,899,477                   | \$191,359,836                      | \$241,442,753                     |
| 100-Yr Flood      | 2,191 (35%)                                   | 2,248                                   | \$246,920,675                  | \$424,598,402                      | \$576,235,059                     |

# Coastal Vulnerability – Sensitivity & Ranking

- Identified areas/assets that are more sensitive to flooding than others
- Mapped critical assets inside COAB and our service. Exposure of each asset ranked according to current and future flooding.



Table 3-3 – Degree of Exposure of Critical Facilities

| Facility Type                | Facility Address/Name | Existing Condition Rainfall Induced (24-Hour Events) |         |          | FEMA 100-Yr | Future Conditions 100-Yr Return Period Rainfall Induced |      | Future Conditions 100-Yr Return Period Storm Surge Induced |      |
|------------------------------|-----------------------|--|---------|----------|-------------|---|------|--|------|
|                              |                       | 10-Year  | 25-Year | 100-Year | Current     | 2044  | 2069 | 2044   | 2069 |
| Water Plant No. 1            | 469 11th Street       | N  | N       | N        | N           | N   | N    | N  | Y    |
| Water Plant No. 2            | 2301 Mayport Rd       | N  | N       | N        | N           | N   | N    | N  | N    |
| Water Plant No. 3            | 902 Assisi Ln         | N  | N       | N        | N           | N   | N    | N  | N    |
| Water Plant No. 4            | 2848 Mayport Rd       | N  | N       | N        | Y           | N   | N    | Y  | Y    |
| Wastewater Plant             | 1100 Sandpiper LN     | N  | N       | N        | N           | N   | N    | N  | N    |
| Public Works Facility        | 1200 Sandpiper LN     | N  | N       | N        | N           | N   | N    | N  | N    |
| Potable Water Well           | 2848 Mayport Rd       | N  | N       | N        | Y           | N   | Y    | Y  | Y    |
| Potable Water Well           | 902 Assisi Ln         | N  | N       | N        | N           | N   | N    | N  | Y    |
| Potable Water Well           | 2848 Mayport Rd       | N  | N       | N        | Y           | N   | Y    | Y  | Y    |
| Potable Water Well           | 902 Assisi Ln         | N  | N       | N        | N           | N   | N    | N  | N    |
| Potable Water Well           | 2301 Mayport Rd       | N  | N       | N        | N           | N   | N    | N  | N    |
| Potable Water Well           | 2301 Mayport Rd       | N  | N       | N        | N           | N   | N    | N  | N    |
| Potable Water Well           | 1100 Sandpiper LN     | N  | N       | N        | N           | N   | N    | N  | N    |
| Potable Water Well           | 469 11th Street       | N  | N       | N        | N           | N   | Y    | N  | Y    |
| Potable Water Well           | 1200 Sandpiper LN     | N  | N       | N        | N           | N   | N    | N  | N    |
| Life Guard Station           | 1 Ahern St            | N  | N       | N        | N           | N   | N    | N  | N    |
| City Hall                    | 800 Seminole Rd       | N  | Y       | Y        | Y           | Y   | Y    | Y  | Y    |
| Commission Chambers          | 800 Seminole Rd       | N  | Y       | Y        | Y           | Y   | Y    | Y  | Y    |
| Police & Fire Department     | 850 Seminole Rd       | N  | Y       | Y        | Y           | Y   | Y    | Y  | Y    |
| Adele Grage Community Center | 716 Ocean Bv          | N  | N       | N        | N           | N   | N    | N  | N    |
| Jordan Park Community Center | 1671 Francis Av       | N  | N       | N        | N           | N   | N    | N  | N    |
| Gail Baker Community Center  | 2072 George St        | N  | N       | N        | N           | Y   | Y    | N  | N    |
| Public Utility Office        | 902 Assisi Ln         | N  | N       | N        | N           | N   | N    | N  | N    |
| Atlantic Beach Elementary    | 298 Sherry Dr         | N  | N       | Y        | N           | Y   | Y    | N  | Y    |

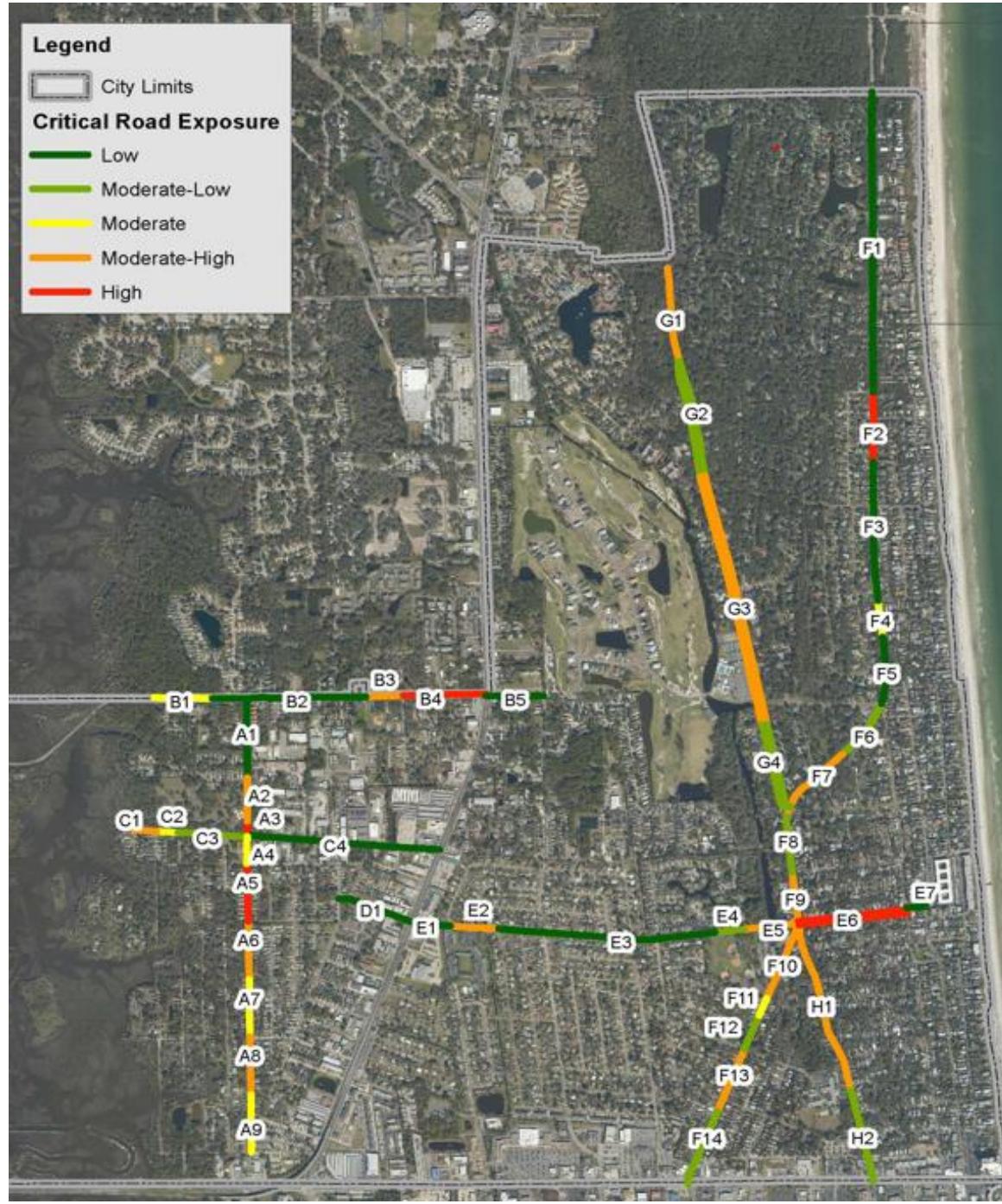
Table 3-4 - Degree of Exposure of Major Roadway Segments

Table 3-5 - Ranking of Exposed Critical Facilities

| Facility Type             | Facility Address  | Flood Exposure | Vulnerability |                   |               | Consequence   |        |          | Total Score |      |
|---------------------------|-------------------|----------------|---------------|-------------------|---------------|---------------|--------|----------|-------------|------|
|                           |                   |                | Sensitivity   | Adaptive Capacity | Average Score | Environmental | Social | Economic |             |      |
| Water Plant No. 1         | 469 11th Street   | 4              | 5             | 3                 | 4             | 1             | 5      | 5        | 4           | 11.7 |
| Water Plant No. 2         | 2301 Mayport Rd   | 1              | 5             | 3                 | 4             | 1             | 5      | 5        | 4           | 8.7  |
| Water Plant No. 3         | 902 Assisi Ln     | 1              | 5             | 3                 | 4             | 1             | 5      | 5        | 4           | 8.7  |
| Water Plant No. 4         | 2848 Mayport Rd   | 8              | 5             | 3                 | 4             | 1             | 5      | 5        | 4           | 15.7 |
| Sewer Plant               | 1100 Sandpiper LN | 1              | 5             | 3                 | 4             | 5             | 5      | 5        | 5           | 10.0 |
| Public Works Facility     | 1200 Sandpiper LN | 1              | 3             | 3                 | 3             | 3             | 3      | 5        | 4           | 7.7  |
| Potable Water Well        | 2848 Mayport Rd   | 8              | 5             | 3                 | 4             | 1             | 5      | 3        | 3           | 15.0 |
| Potable Water Well        | 902 Assisi Ln     | 4              | 5             | 3                 | 4             | 3             | 5      | 3        | 4           | 11.7 |
| Potable Water Well        | 2848 Mayport Rd   | 8              | 5             | 3                 | 4             | 2             | 5      | 3        | 3           | 15.3 |
| Potable Water Well        | 902 Assisi Ln     | 1              | 5             | 3                 | 4             | 5             | 5      | 3        | 4           | 9.3  |
| Potable Water Well        | 2301 Mayport Rd   | 1              | 5             | 3                 | 4             | 5             | 5      | 3        | 4           | 9.3  |
| Potable Water Well        | 2301 Mayport Rd   | 1              | 5             | 3                 | 4             | 3             | 5      | 3        | 4           | 8.7  |
| Potable Water Well        | 1100 Sandpiper LN | 1              | 5             | 3                 | 4             | 2             | 5      | 3        | 3           | 8.3  |
| Potable Water Well        | 469 11th Street   | 5              | 5             | 3                 | 4             | 1             | 5      | 3        | 3           | 12.0 |
| Potable Water Well        | 1200 Sandpiper LN | 1              | 5             | 3                 | 4             | 2             | 5      | 3        | 3           | 8.3  |
| Neptune Beach PS          | NA                | 3              | 5             | 3                 | 4             | 5             | 3      | 3        | 4           | 10.7 |
| Life Guard Station        | 1 Ahern St        | 3              | 1             | 1                 | 1             | 1             | 1      | 1        | 1           | 5.0  |
| City Hall                 | 800 Seminole Rd   | 9              | 3             | 3                 | 3             | 1             | 3      | 3        | 2           | 14.3 |
| Commission Chambers       | 800 Seminole Rd   | 9              | 3             | 3                 | 3             | 1             | 3      | 3        | 2           | 14.3 |
| Police & Fire Department  | 850 Seminole Rd   | 9              | 3             | 3                 | 3             | 1             | 5      | 3        | 3           | 15.0 |
| Adele Grage Community Ctr | 716 Ocean Bv      | 1              | 3             | 3                 | 3             | 1             | 1      | 3        | 2           | 5.7  |
| Jordan Park Community Ctr | 1671 Francis Av   | 1              | 3             | 3                 | 3             | 1             | 1      | 3        | 2           | 5.7  |
| Gail Baker Community Ctr  | 2072 George St    | 6              | 3             | 3                 | 3             | 1             | 1      | 3        | 2           | 10.7 |
| Office Building           | 902 Assisi Ln     | 1              | 3             | 3                 | 3             | 1             | 1      | 3        | 2           | 5.7  |
| Atlantic Beach Elementary | 298 Sherry Dr     | 8              | 3             | 5                 | 4             | 1             | 5      | 5        | 4           | 15.7 |

Table 3-6 - Ranking of Exposed Roadway Segments

| Road Name | Segment ID | Segment Length | Flood Exposure | Vulnerability Rating | Vulnerability Rating | Total Roadway Length (ft.) |
|-----------|------------|----------------|----------------|----------------------|----------------------|----------------------------|
| MAIN ST   | A1         | 949            | 1              | Low                  | Moderate-High        | 16,230                     |
| MAIN ST   | A2         | 517            | 8              | Moderate-High        | Moderate             | 3,253                      |
| MAIN ST   | A3         | 184            | 10             | High                 | Moderate-Low         | 10,219                     |
| MAIN ST   | A4         | 326            | 6              | Moderate             | Low                  | 15,465                     |
| MAIN ST   | A5         | 691            | 9              | High                 |                      |                            |
| MAIN ST   | A6         | 695            | 7              | Moderate-High        |                      |                            |
| MAIN ST   | A7         | 684            | 6              | Moderate             |                      |                            |
| MAIN ST   | A8         | 696            | 8              | Moderate-High        |                      |                            |
| MAIN ST   | A9         | 688            | 6              | Moderate             |                      |                            |
| DUTTON DR | B1         | 650            | 6              | Moderate             |                      |                            |
| DUTTON DR | B2         | 1719           | 1              | Low                  |                      |                            |
| CHURCH RD | B3         | 425            | 8              | Moderate-High        |                      |                            |
| CHURCH RD | B4         | 925            | 10             | High                 |                      |                            |
| DUTTON DR | B5         | 647            | 1              | Low                  |                      |                            |
| LEVY RD   | C1         | 244            | 8              | Moderate-High        |                      |                            |
| LEVY RD   | C2         | 250            | 6              | Moderate             |                      |                            |
| LEVY RD   | C3         | 773            | 4              | Moderate-Low         |                      |                            |
| LEVY RD   | C4         | 2165           | 1              | Low                  |                      |                            |
| W PLAZA   | D1         | 861            | 1              | Low                  |                      |                            |
| PLAZA DR  | E1         | 443            | 1              | Low                  |                      |                            |
| PLAZA DR  | E2         | 549            | 8              | Moderate-High        |                      |                            |
| PLAZA DR  | E3         | 2427           | 1              | Low                  |                      |                            |
| PLAZA DR  | E4         | 328            | 4              | Moderate-Low         |                      |                            |
| PLAZA DR  | E5         | 624            | 2              | Moderate-High        |                      |                            |



# ATLANTIC BEACH CITY COMMISSION PRIORITIES

ESTABLISHED JANUARY 21, 2021; RATIFIED FEBRUARY 22, 2021

## LIVABILITY

An initiative to improve health, education, housing conditions, culture and leisure, and other quality-of-life indicators via:

- Taking part in the assessment of City of Jacksonville's prospective participation in Blue Zones, a comprehensive communitywide well-being improvement initiative to help people live longer, better, easier for everyone
- Providing support to local nonprofits that provide health, wellness, education, recreation and affordable housing services to youth, senior citizens, low-income residents, and others.
- Promoting equity and neighborhood identity.
- Advocating/lobbying for workforce housing.
- Solidifying AB's status as a military- and veteran-friendly community through partnerships and programming, and by serving as an information source.

## ENVIRONMENTAL LEADERSHIP

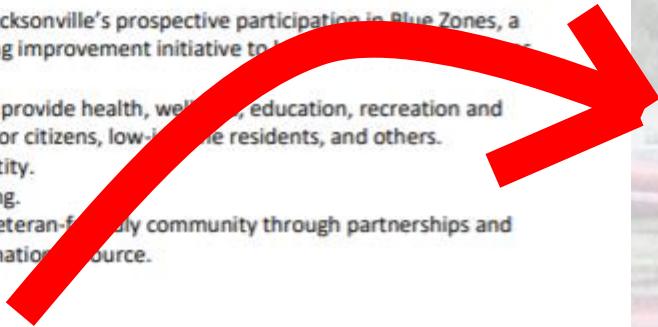
An initiative validating COAB's commitment to ecological integrity, resiliency and sustainability via:

- Advocating a no-net-loss of the tree canopy by planting trees and updating the tree-protection code.
- Establishing a City policy requiring departments to use proven techniques to prevent waste, maximize recycling and decrease the amount of plastic pollution generated by City government.
- Establishing plastic-reduction, reuse and recycling standards for individuals and groups utilizing City facilities and venues.
- Continuing efforts to understand the potential impacts of local sea level rise and work towards improving community resilience.
- Improving the City's LEED silver-certified community performance score across the five categories -- energy, water, waste, transportation, and human experience.

## PLANNING & BUDGETING

A financial and infrastructure planning initiative to prepare future needs via:

- Updating/adopting long-term capital improvement plans for the following, and incorporate them into the City's budgeting process:
  - Public Utilities
    - Potable water treatment and distribution
    - Sewer collection and treatment.
  - Public Works
    - Stormwater management
    - Adaptation and resiliency
    - Streets and sidewalks
    - Parks
    - Facilities
- Ensuring that spending and programming is equitable throughout the entire community.
- Consider impacts of spending decisions in terms of debt management and pension liability.



- **Continuing efforts to understand the potential impacts of local sea level rise and work towards improving community resilience**
- **Update/adopt long-term capital improvement plan to include adaptation & resiliency and stormwater**
- **Ensure equitable spending throughout the community**
- **Continuing to foster productive partnerships with neighboring municipalities and state & local agencies**

# Adaptation Strategies – Reduce Exposure

- Reduce Exposure or eliminate chances of assets flooding
- Remove from future floodplain risk
- Altering drainage systems to limit future water levels

Table 4-1 - Comparison of Exposure Reduction Strategies

| Adaptation Strategy   | Implementation Cost | Environmental Impact | Societal Impact | Construction Feasibility | Service Life |
|---|---------------------|----------------------|-----------------|--------------------------|--------------|
| Retreat from Vulnerable Areas                               | Green               | Green                | Red             | Green                    | Green        |
| Land Acquisition/Conservation                               | Yellow              | Green                | Red             | Green                    | Green        |
| Seawall Improvements  | Yellow              | Yellow               | Green           | Green                    | Yellow       |
| Stormwater Improvements<br>(i.e. check valves, dams, pumps) | Red                 | Yellow               | Green           | Yellow                   | Yellow       |
| Raising Critical Infrastructure<br>(i.e. Roads, Buildings)  | Red                 | Green                | Green           | Yellow                   | Green        |
| Coastal Dune Maintenance                                    | Red                 | Yellow               | Yellow          | Green                    | Red          |
| Marsh/Vegetative Buffer Maintenance                         | Yellow              | Green                | Yellow          | Yellow                   | Green        |

# Adaptation Strategies – Reduce Sensitivity

- Protect asset by reducing exposure to hazard
- Reduce/eliminate impacts flooding has on assets during/after flooding

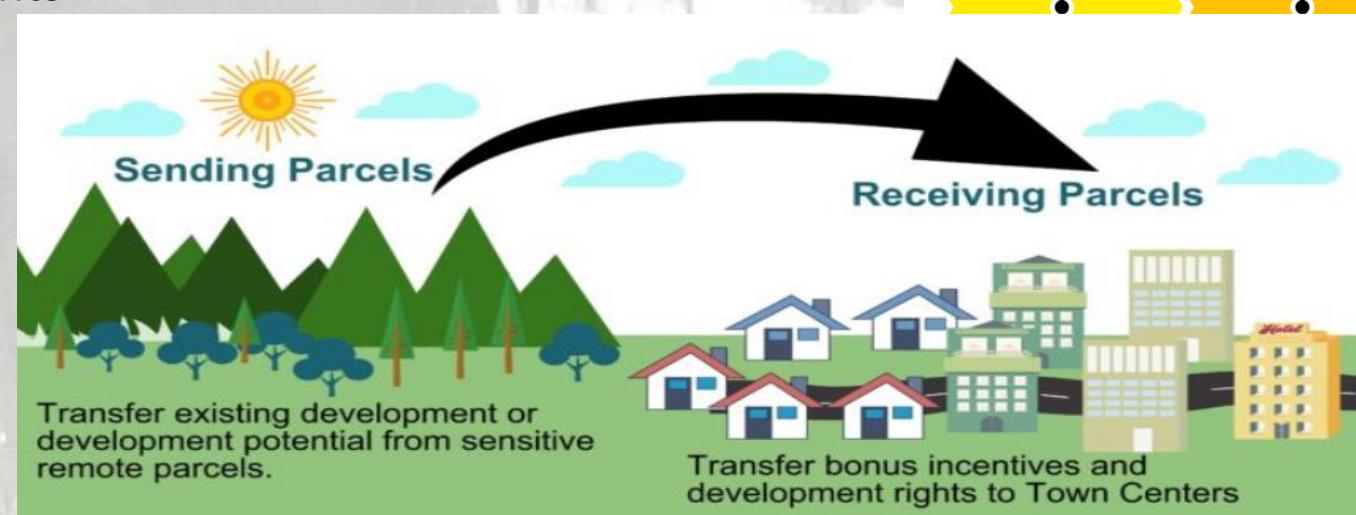
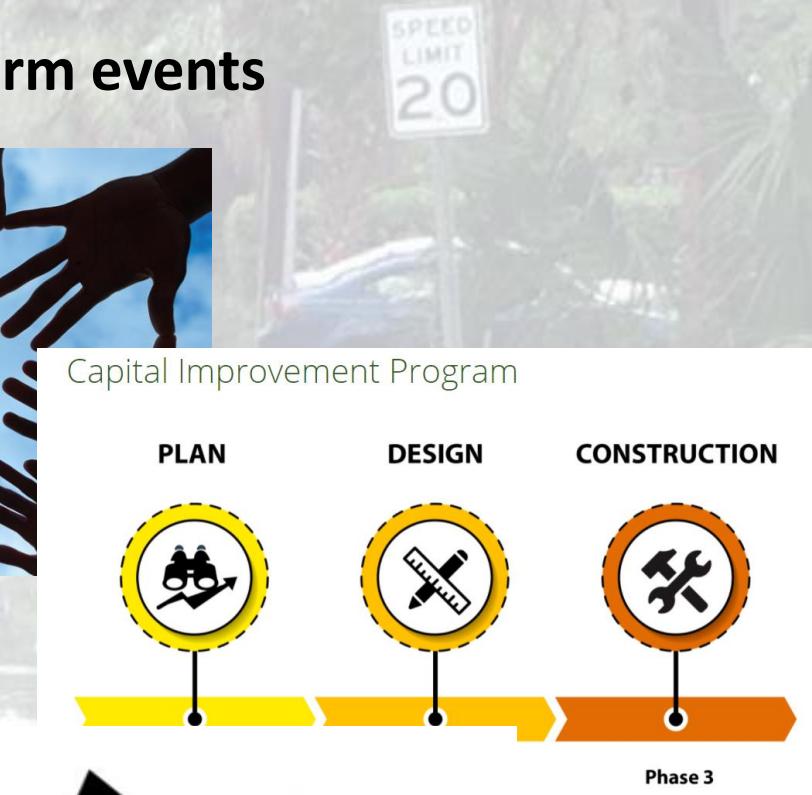
Table 4-2 - Comparison of Sensitivity Reduction Strategies

| Adaptation Strategy  | Implementation Cost | Environmental Impact | Societal Impact | Construction Feasibility | Service Life |
|--|---------------------|----------------------|-----------------|--------------------------|--------------|
| Flood Proofing Water/Sewer Infrastructure  | Red                 | Green                | Green           | Green                    | Yellow       |
| Flood Proofing Emergency Service Operations (Police, Fire, City Hall)            | Yellow              | Green                | Green           | Green                    | Green        |
| Flood Proofing Businesses and Homes  | Yellow              | Green                | Yellow          | Yellow                   | Green        |
| Flood Recovery Strategies to Reduce Flood Durations                              | Yellow              | Green                | Green           | Green                    | Green        |
| Backup Power Generation for Critical Services (Water, Sewer, Emergency Services) | Red                 | Green                | Green           | Green                    | Yellow       |

# Adaptation Strategies – Increase Adaptive Capacity

Ability to adjust to impacts of SLR and changes in extreme storm events

- Enhance adaptive capacity by:
  - ❖ Public Outreach/Education
  - ❖ Capital Improvement Plan
  - ❖ Funding for Adaptation Projects
  - ❖ Transfer of Development Rights



# Adaptation Strategies – Increase Adaptive Capacity

- Enhance adaptive capacity by:
  - ❖ Cluster development
  - ❖ Setbacks and buffers
  - ❖ Conservation Easements



# Adaptation Strategies – Increase Adaptive Capacity

- Enhance adaptive capacity by:
  - ❖ Floodplain regulations
  - ❖ Building codes and standards
  - ❖ Redevelopment standards



# Current Strategies & Existing Regulations

## EXISTING PLANS

- Coastal Vulnerability Assessment
- Stormwater Master Plan
- 2030 Comprehensive Plan

## DEVELOPMENT REGULATIONS

- Finished Floor Elevation
- Base Flood Elevations
- Floodplain Storage
- Onsite Stormwater Storage
- Impervious Surface Area
- Grading and Drainage
- Wetland Mitigation/Buffer

# Current Initiatives



# Focus Areas for Adaptation

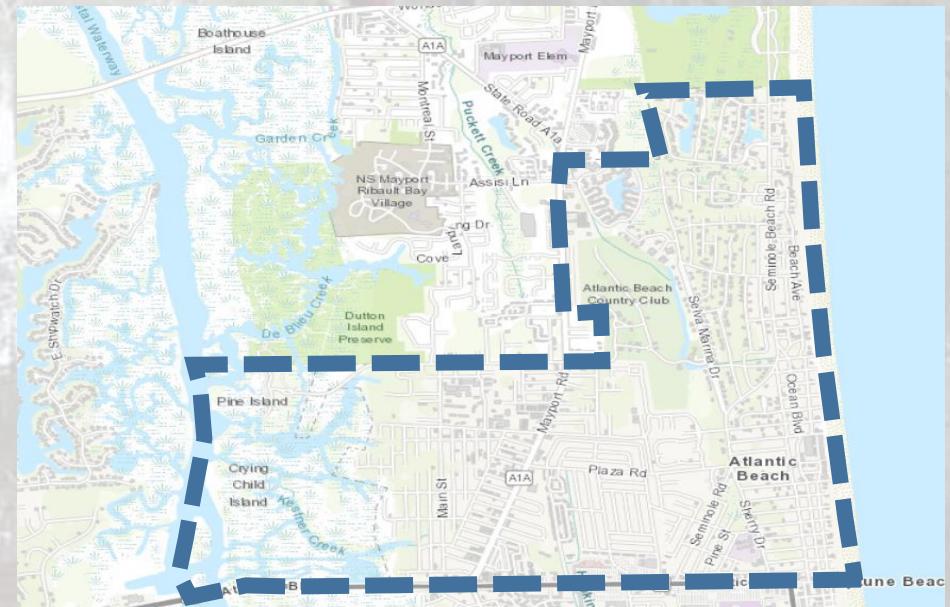
## CITY LIMITS

COAB is included in the City of Jacksonville Adaptation Action Area (AAA) (areas subject to inundation from either a 500-year flood event or a Category 3 hurricane storm surge).

All of COAB is considered to have potential exposure

***“Resiliency is the ability to collaboratively prepare for, prevent, absorb, recover from and more equitably adapt for damage from chronic stressors (i.e., aging infrastructure and sea level rise) and adverse events (i.e., hurricanes, extreme heat and high-intensity flooding).”***

**COJ City Council Special Committee on Resiliency**



# Adaptation Recommendations – City Limits



Capital Improvement Projects = RESILIENCE



Building and zoning regulations = RESILIENCE

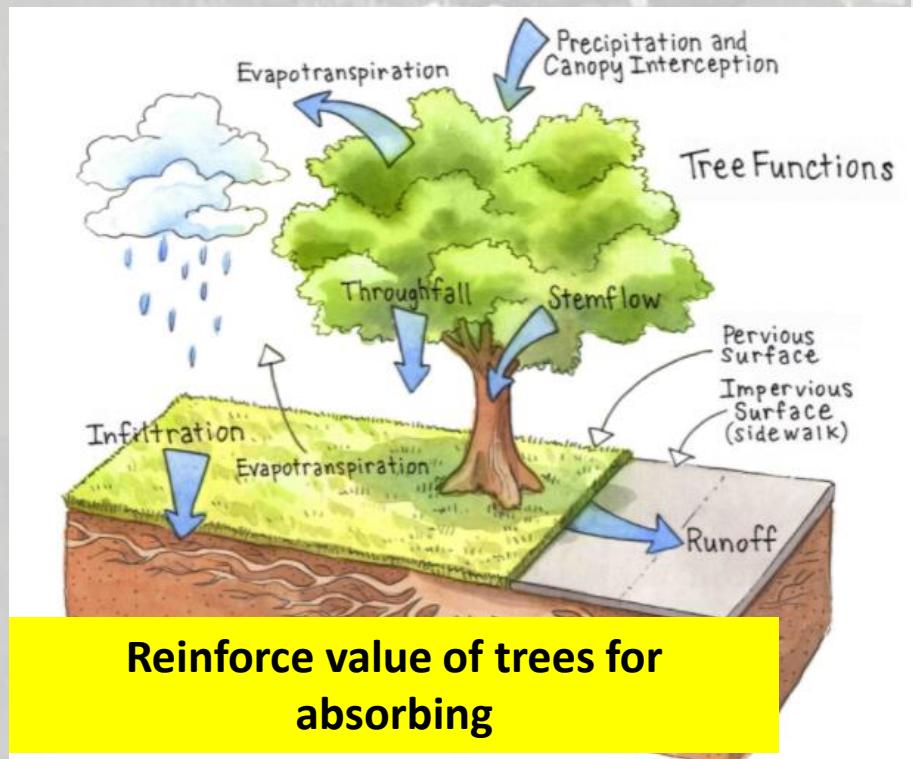


Incentivize repairs/renovations = RESILIENCE

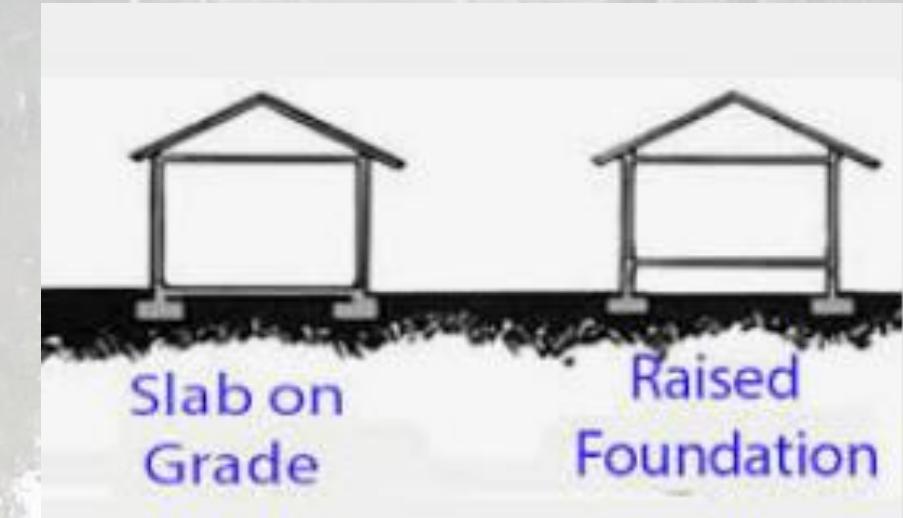
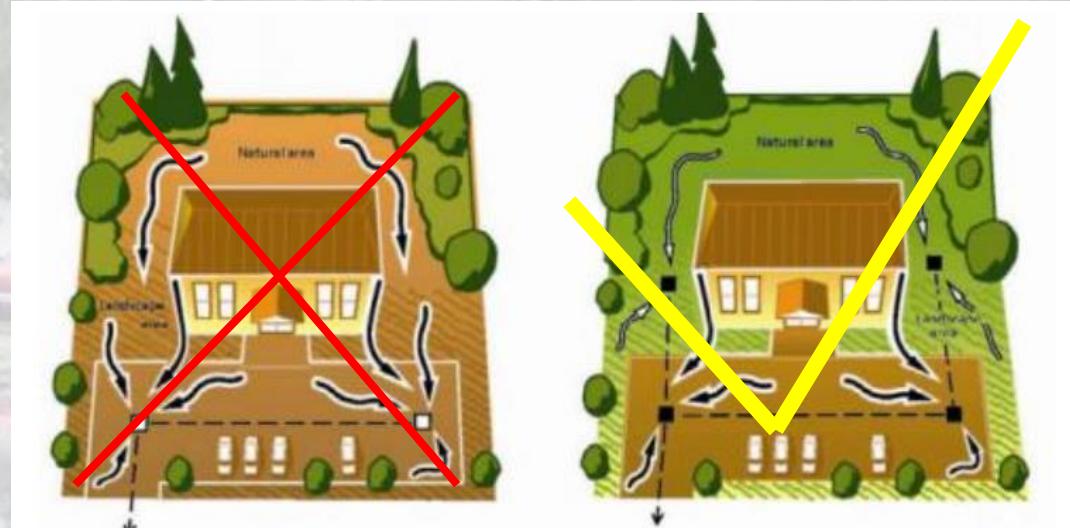


Natural shorelines = 6 foot low maintenance buffer

# Adaptation Recommendations – City Limits

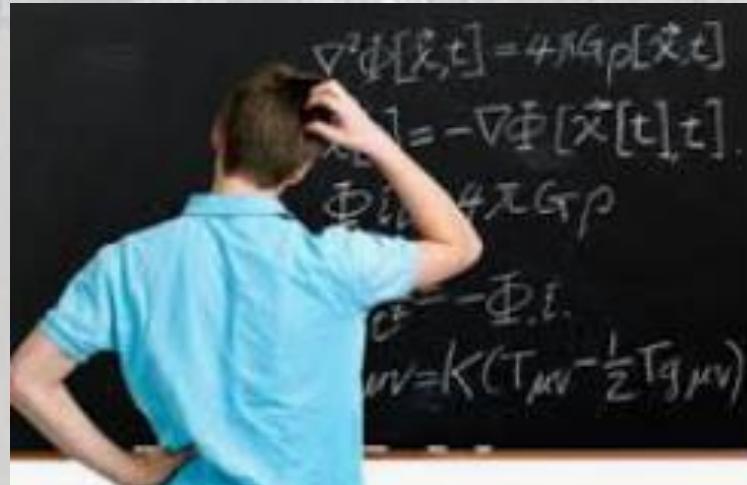


# Adaptation Recommendations – City Limits



Increase Finished Floor Elevations in the 500-year Flood zone

# Adaptation Recommendations West of Mayport Rd.



Evaluate cost effected means to protect w. of Mayport Rd.

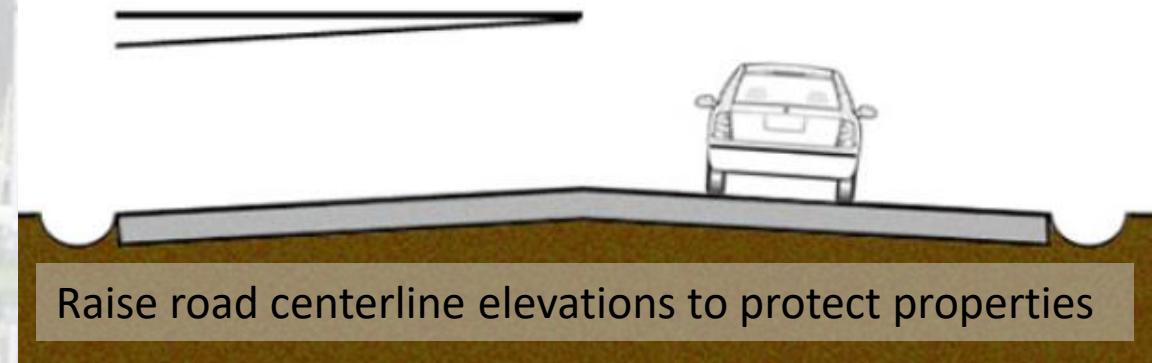


Figure 4-2 - 2044 Nuisance & 100-Yr Storm Flooding West of Mayport Rd

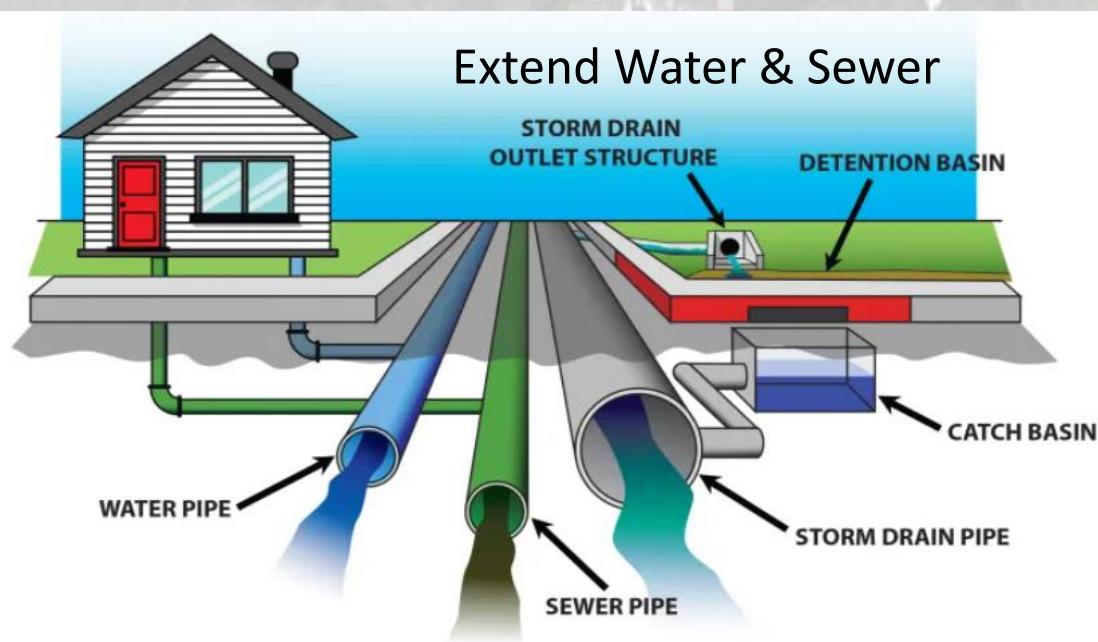
# Adaptation Recommendations West of Mayport Rd.



road crown  
about 1/2" per foot  
allows for drainage



Raise road centerline elevations to protect properties

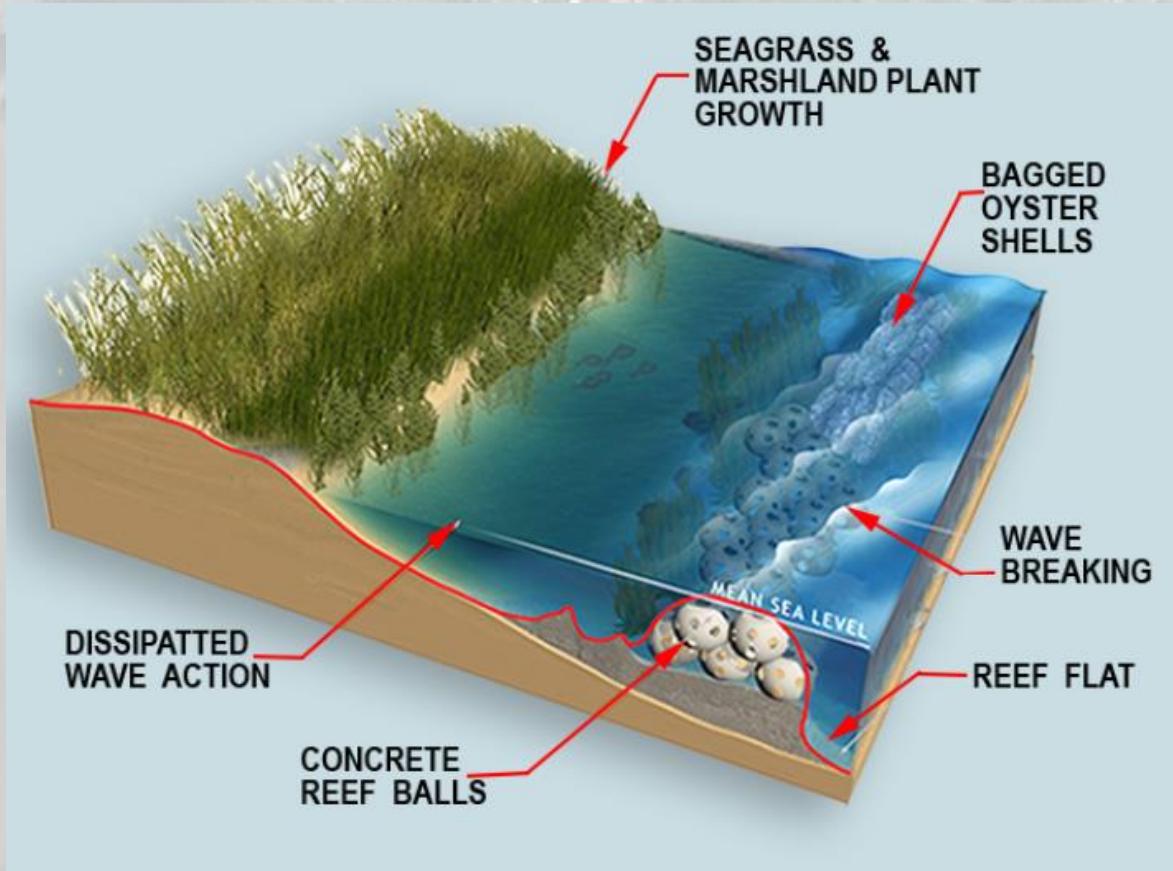


needed to assure  
cally located along  
ility to reduce  
land areas  
and develop  
urate loss of



Check valves for drainage ditches

# Adaptation Recommendations West of Mayport Rd.



Conserve properties located along the marsh edge to maintain or develop the ability to reduce wave impacts on the immediately adjacent upland areas

# Adaptation Recommendations Major Drainage ways

- Protect & enhance performance of major drainage ways
- Initiate an in-depth study (Major drainage projects in context of CIP)
- Develop 50 year for managing major drainage ways

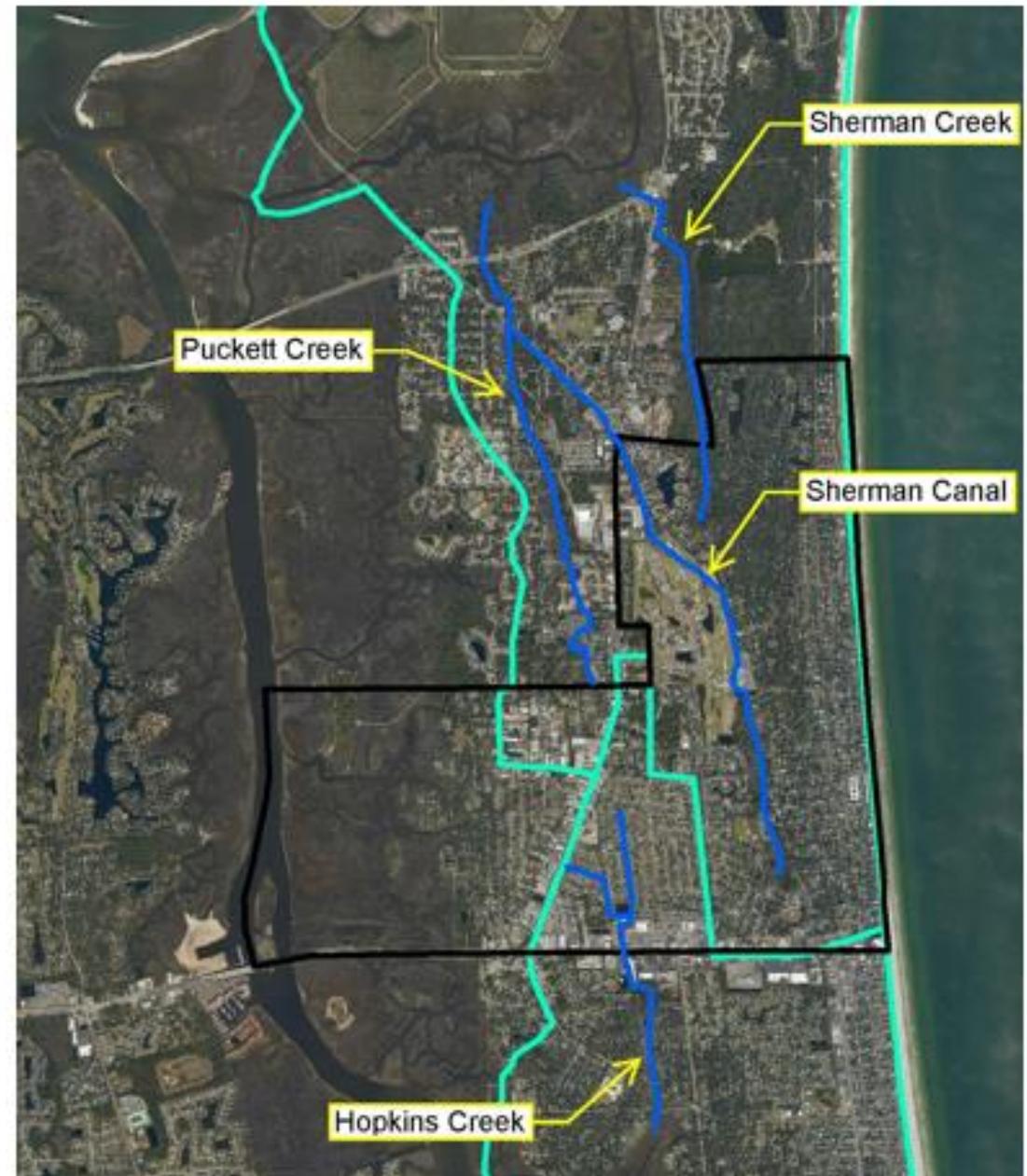


Figure 4-3 - Major Drainageways

# Adaptation Recommendations Roadways

- Protect & enhance performance of major drainage ways
- Initiate an in-depth study (Major drainage projects in context of CIP)
- Develop 50 year for managing major drainage ways

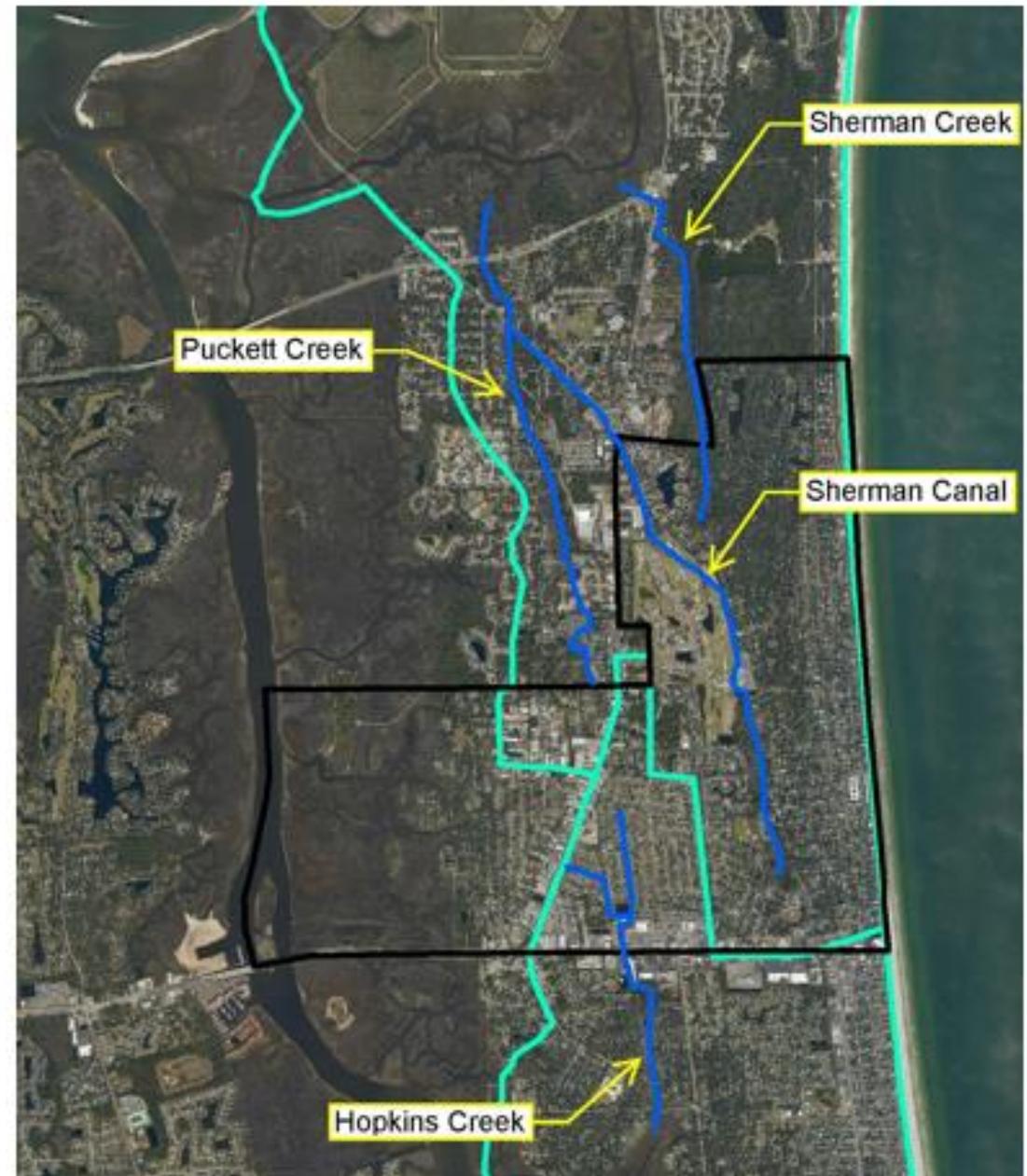


Figure 4-3 - Major Drainageways





# Adaptation Strategies

Strategies to minimize impacts of future flood risks and create a more Resilient Coastal Community

- Protection
- Accommodation
- Strategic Relocation
- Avoidance
- Procedural



*“Resiliency is the ability to collaboratively prepare for, prevent, absorb, recover from and more equitably adapt for damage from chronic stressors (i.e., aging infrastructure and sea level rise) and adverse events (i.e., hurricanes, extreme heat and high-intensity flooding).”*

*COJ City Council Special Committee on Resiliency*

# Coastal Vulnerability - Exposure

- COAB located between Ocean and Intracoastal Waterway –with low elevations



# Accommodation

- Altering design, construction and use of structures to handle periodic flooding
  - Incorporate future risks into Infrastructure Planning, Design & Construction
  - Elevating Structures
  - Stormwater Retrofits
  - Green Infrastructure



# Strategic Relocation

- Relocating vulnerable structures or developed areas to safer locations
  - Transition of vulnerable land from private to public ownership
  - Transfer of development rights



## City plans to return South Shores area to natural floodplain

FEMA gives Jacksonville \$3.4M grant to buy 17 homes, tear them down

By Jim Piggott - Reporter

Posted: 2:52 PM, February 15, 2019

Updated: 6:12 PM, February 15, 2019

News 4 JAX



# Avoidance

- Anticipatory actions taken to direct new development to safer areas
  - Land Conservation
  - Conservation Easements
  - Increased Setbacks



## Dutton Island Preserve

706 Dutton Island Road  
Atlantic Beach, FL 32233

Latitude: N 29° 51.75' Longitude: W 81° 15.00'

Distance: 0.13 miles (0.21 km)

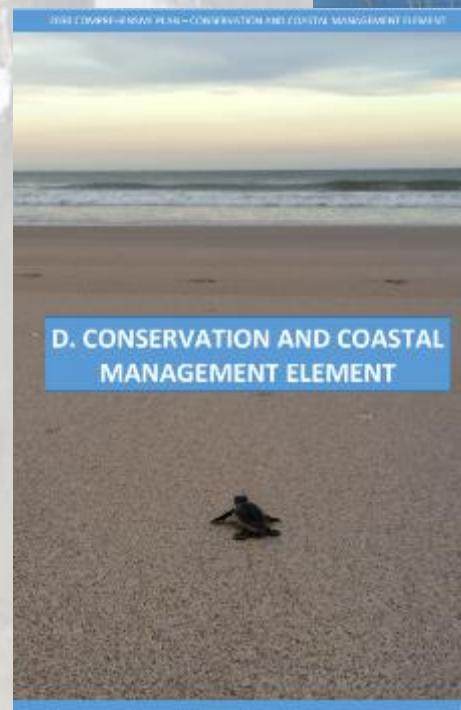
Scale: 1:24,000

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100



# Procedural

- Procedural strategies aim to increase awareness of vulnerabilities and adaptation options or incorporate such information into plans or policies
  - Community Outreach & Education
  - Wetland Buffers
  - Comprehensive Plan changes to address Sea Level Rise
  - Real Estate Disclosures



# Next Steps

- Discussion with Environmental Stewardship Committee on April 14<sup>th</sup>
- Review City of Jacksonville Resiliency Policies & Strategies
- Develop Draft Adaptation Plan
- Present Draft Adaptation Plan to the Commission on May 24<sup>th</sup>
- COAB Coastal Vulnerability, Resiliency & Adaptation Planning Website:  
<https://www.coab.us/875/Coastal-Vulnerability-Resiliency-and-Ada>