

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GRANT WORK PLAN
DEP AGREEMENT NO.: R2116**

ATTACHMENT 3

I. TITLE PAGE

1. PROJECT TITLE: Resilient Coastlines Program

2. GRANTEE Contact Information:

Organization Name: City of Pensacola

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3. GRANT MANAGER Contact Information:

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4. FISCAL AGENT Contact Information:

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Title: Financial Director

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II. WORK PLAN

9. **PROJECT SUMMARY:** Pensacola will identify the locations of vulnerable infrastructure, critical facilities, stormwater and utilize other available datasets to link sea level rise risk assessment with the City's Community Rating System program. This effort will also estimate the timeline of projected impact and identify "hot spot areas" for facilities and infrastructure that are the most vulnerable. The outputs will assist decision-making related to long-term sea level rise planning efforts. In particular, the City will develop language to comply with statutory requirements related to "Peril of Flood" and include outreach tools, such as a story map, to visualize work products and policy language.
10. **PROJECT DESCRIPTION:** Northwest Florida is threatened by sea level rise, record-breaking heat indexes, increasing frequency and long durations of extreme heat and drought, heavier rain events, wildfires, inland and coastal flooding, storm surges exacerbated by stronger hurricanes, and decreasing freshwater availability. Historical water level records from Pensacola, Florida National Oceanic and Atmospheric Administration (NOAA) tide gauges have established a representative long-term historical SLR trend of 0.73 ft/century.

The City of Pensacola and its regional partners, including counties and other local governments, are pursuing an aggressive and overarching climate-planning objective to address underlying climate change threats. The City of Pensacola has the opportunity of ensuring more detailed and new planning initiatives to ensure the community is resilient to climate change. The first step is to better understand what changes are likely at the local (and regional) level and to prepare for these changes.

This grant scope of work advances five (5) key tasks that include identifying coastal risk from sea level rise, linking coastal risk to FEMA's Community Rating System ("CRS") program, developing a technical basis to plan for future sea level rise (with mitigation and adaptation strategies) and communicating future sea level rise risks to the public. The City is currently a Class Rating of seven (7) and data completed as part of this scope of work will serve as a strategy to improve the City's Class Rating during its next CRS cycle. The City also has an excellent opportunity to move its vulnerability planning to the next step building on work previously completed by the Climate Mitigation and Adaptation Task Force (CMATF) and other local and regional partnerships. To date the City has undertaken some specific efforts to start its vulnerability planning efforts. All activities include:

- Report of Pensacola Climate Mitigation and Adaptation Task Force (2018).
- Florida Department of Economic Opportunity (FDEO) Vulnerability Assessment of Escambia County, which includes detail related to the City of Pensacola (2016)
- Santa Rosa County, in partnership with UF IFAS Sea Grant, University of West Florida (UWF), and Emerald Coast Regional Council (ECRC), applied and received funding from the Northern Gulf of Mexico Resilience to Future Flooding RFPI, to effect informed decision-making through assessing vulnerability and developing a flood risk cost estimator that will be communicated in a story map and web application (2019). The effort was undertaken by Cynthia Gannon, who will also spearhead this grant effort.

Pensacola will review existing policy guidance, best practices and case studies to determine the most current approaches for complying with the Peril of Flood amendments. With the understanding that POF amendments have already been adopted in approximately 90 jurisdictions statewide, there are multiple models to work from to help the City's process. The City has also completed an initial set of Climate Action Recommendations from which to build upon.

An assessment of current data availability includes: previous CRS submittals, building footprints, city-owned areas (including city-owned parcels & "city" right-of-way, or may just be "city" right-of-way), sewer and components, water and components, some stormwater information and streets. This data will

serve as the basis for a Preliminary Vulnerability Assessment to launch a more data-driven approach to planning. The efforts of all of these initiatives provide an immediate opportunity to update the City's Comprehensive Plan and bring it into compliance with the Peril of Flood statutory requirements.

11. PROJECT NEED AND BENEFIT:

A. Explain the demonstrated need, which the project addresses. In previous work performed by the County a conclusion was, "Downtown Pensacola and areas to the southwest of Bayou Grande have some of the greatest vulnerability to changes in flooding due to increasing sea levels, primarily at the 1% and 0.2% annual chance coastal flood levels". In Pensacola by the year 2085, East and West Main Streets, as well as the south end of S. Tarragona Street are very vulnerable to the two highest scenarios. Previous sea level rise scenarios were used in the Escambia County Community Resiliency Initiative Pilot Projects administered through the Florida Department of Economic Opportunity (DEO) and funded by NOAA. These 2045 and 2085 County projections will be revisited in this effort and could be carried forward or updated based on stakeholder and City collaboration. Previous maps from this effort will also be utilized in the analysis where applicable.

The first step is to better understand what changes are likely at the local (and regional) level and to prepare for these changes. The City has begun important work through its Climate Mitigation and Adaptation Task Force which was appointed as part of a planning process by the City of Pensacola and its regional partners, including counties and other local governments. This initiative advanced efforts to find an aggressive and overarching climate-planning objective to address underlying climate change threats. The Recommendations Report produced by the Task Force provides a general outline of the direction for the City of Pensacola to undertake specific actions to counter threats and impacts of climate change and extreme weather. This grant will advance 2 of the 3 Task Force Goals and Objectives from the Climate Action Recommendations of the CMATF:

- Advance adaptation and mitigation strategies to enhance the City's and regional resilience and preparedness for withstanding the likely adverse effects of climate change, including flooding resulting from heavy precipitation, rising sea levels, intense hurricanes, heat waves, and other extreme weather events.
- Promote a program of education, incentives, and public outreach to encourage residents, business owners, governments, and organizations to participate in the Climate Adaptation and Mitigation Plan.

The project will provide a critical step in the City's vulnerability planning process: to move from conceptual to actual data sets and data-driven recommendations for integration into policy structures and decision-making processes. At the core of these efforts will be an update the City's Comprehensive Plan to comply with new Peril of Flood requirements in the Coastal Element. This scope of work also meets several of the Recommendations of the CMATF such as:

- Incorporate language about climate change in updated comprehensive plans and pass local laws or codes that uphold those values. *[Emphasis added]*.
- Educate the public about the changing climate and involve and engage local citizens and volunteers in the processes of adaptation and mitigation. *[Emphasis added]*.
- Develop emergency management plans and Federal Emergency Management Agency (FEMA) all-hazard mitigation plans that include climate change projections and adaptation strategies and participate in the National Flood Insurance Program as well as FEMA's Community Rating System (CRS). The City of Pensacola is currently ranked 7 out of 10 on the FEMA CRS scale, resulting in a 15% annual discount in flood insurance for all insured properties. Surrounding communities have reached levels 5 (Pensacola Beach, Santa Rosa County) and 6 (Escambia County). The City should continue making a concerted effort to improve its CRS rating. Acting

on the suggestions made in this report would contribute significantly to improving this rating. *[Emphasis added]*.

- Consider current and subsequent updates to sea level rise (SLR) projections to inventory and map municipal infrastructure that may be vulnerable to climate change, and make plans and budget to replace, move or harden, or add supportive infrastructure at appropriate times as those models indicate. *[Emphasis added]*.
- Identify areas of frequent “nuisance flooding” and create a public database for future reference, which will disincentivize construction in historically and newly flooded area.
- The City of Pensacola shall coordinate with Escambia County and regional planning agencies to ensure adequate planning and response for emergency management in the context of climate change by maximizing the resilience and self-sufficiency of, and provide access to, public structures, schools, hospitals and other shelters and critical facilities.
- The City of Pensacola shall develop plans and monitor programs to address the impacts of climate change on households and individuals especially vulnerable to health risks attributable to or exacerbated by rising temperatures, to include low income families and the elderly.
- The City of Pensacola shall work to encourage dialogue between residents, businesses, insurance companies and other stakeholders, through public education campaigns and workshops to increase understanding regarding the potential impacts of climate change on our coastal communities and evaluate the shared costs of action or inaction in human, ecological and financial terms.
- The City of Pensacola shall continue to engage stakeholders, regional, state and federal partners, academia, practitioners and climate scientists, in exchanging information, best practices, and policy solutions regarding local climate change impacts and mitigation and adaptation strategies.

This grant effort will help catalyze internal and external support to move from initial Recommendations from the CMATF to action. This grant effort will also help the City in improving its FEMA CRS Class Rating. Finally, the grant will provide a very needed source of funds to advance this work through internal staffing resources and outside contractual services.

B. Explain how the proposed project meets the purpose of one or more of the Goals and Priorities for FRCP. This proposed project will meet Priorities 1, 3 and 4 of the Grant Goals and Priorities for Fiscal Year 2020-2021.

Priority Area 1. *Compliance with “Peril of Flood” statute (Sec. 163.3178(2)(f) F.S.) for communities with a Coastal Management Element in their comprehensive plan.* This scope of work will include final recommended amendments to the Coastal Management Element of the Comprehensive Plan based upon a preliminary vulnerability assessment based upon existing datasets. The amendments will be based upon relevant and appropriate data that will include mapping and outreach deliverables. These amendments will be based upon the results of the data collection efforts and assessment also created as part of these grant deliverables in a final report format.

Priority Area 3. *A Vulnerability Assessment will be developed to assist with the development of the Peril of Flood amendments for the Coastal Management Element of the Comprehensive Plan.* The City does have stormwater infrastructure in a GIS format with some but not all of the elevation data attached to it, so part of this grant scope may include ground-truthing some of that existing data. Data also exists for building footprints, city owned areas, sewer and components, water and components and streets. An analysis will be developed identifying all existing sources of data as well as identifying areas where the City may benefit from enhanced datasets in future vulnerability assessments. A minimum of 2 sea level rise projections will be evaluated and all options of relevant projections (as well as their use locally) will also be analyzed to arrive at an acceptable projection for City use moving forward. A story map will be created as a part of the Vulnerability Assessment deliverable.

Priority Area 4. *Communities and/or organizations that are trying to build public support for resiliency planning can receive assistance for regional collaboration efforts.* Building upon efforts already being undertaken in the region through other grants, projects and collaborations and the CMATF, the City will invite participation in internal and external engagement opportunities, as appropriate, with a goal of meeting Priority Area 4: Regional collaboration.

- C. Discuss how the project is feasible and can be completed by the grant period deadline.** The proposed scope of work will assist the City's Planning Division with needed data to determine next steps and provide a path toward implementation. The (name of) project is technically feasible with City resources and within the funding amount requested and Pensacola is familiar with federal, state and local permitting processes. The proposed project will be managed by experienced staff including certified flood plain managers and experienced planners with significant return on investment to our community. The City is experienced with assessments and technology used to test concept viability having recently completed side-scan sonar and bathymetry in submerged lands for a treated piling removal project.

The City has demonstrated success with managing multiple grants on time and on budget. As referenced, the City of Pensacola successfully managed a treated piling removal from submerged lands in Pensacola Bay with multi-agency assistance. Federal, State and Regional funding partners included the Environmental Protection Agency (EPA), State of Florida Department of Environmental Protection (FDEP) and West Florida Regional Planning Council (ECRC). City responsibilities included permitting, procurement of an environmental contractor and a sub-contractor for piling removal, award management across multiple agencies and special condition compliance. The City has managed other technical and environmental grants with similar success.

- D. Explain how this project is addressing social vulnerability or vulnerability of historic resources or stormwater management systems.** The City anticipates using the Center for Disease Controls Social Vulnerability Index or other applicable tool to assist in identifying at-risk, populations vulnerable to future flood risk from climate impacts. The City will also use publicly available datasets either generated at the State, Regional or Local level to map impacts to historic resources to the extent that data is available. Finally, the City maintains a partial dataset for stormwater structures which will be utilized in the vulnerability assessment process. The City's ultimate vulnerability map series will address these attributes to the extent that data is available to do so. Missing or incomplete data will be flagged during the Task 1 Analysis.

12. DESCRIPTION OF PROJECT OUTCOMES:

Outcomes from Task #1:

- 1) Draft Analysis of Existing Data Resources for Preliminary Vulnerability Assessment, Best Practices and Case Studies and Peril of Flood amendments.
- 2) Present draft findings to City staff and refine analysis results including Agenda and Minutes from meeting with City staff.
- 3) Final Analysis of Existing Data Resources for Preliminary Vulnerability Assessment, Best Practices and Case Studies and Peril of Flood amendments.

Outcomes from Task #2:

- 1) Draft Memorandum of Recommended Policy Alternatives for the Peril of Flood amendments
- 2) Present draft findings to City staff finalize results including Agenda and Minutes from meeting with City staff.
- 3) Final Memorandum of Recommended Policy Alternatives for the Peril of Flood amendments

Outcomes from Task #3:

- 1) Draft Preliminary Vulnerability Assessment with Map Series and analysis of integration with FEMA's CRS program

- 2) Present draft findings to City staff and finalize vulnerability results including Agenda and Minutes from meeting with City staff.
- 3) Final Preliminary Vulnerability Assessment with Map Series and analysis of integration with FEMA's CRS program

Outcomes from Task #4:

- 1) Develop Draft Goals, Objectives and Policies for Peril of Flood amendments
- 2) Present draft Goals, Objectives and Policies to City staff and text amendments including Agenda and Minutes from meeting with City staff. Minutes from meeting with City staff.
- 3) Final Goals, Objectives and Policies for Peril of Flood amendments.

Outcomes from Task #5: Public Engagement Meetings

- 1) Public Workshop to present results of Preliminary Vulnerability Assessment and seek input on the formulation of Goals, Objectives and Policies
- 2) City Council Workshop #1 to seek policy direction on Preliminary Vulnerability Assessment and Goals, Objectives and Policies with Agenda and presentation materials. Minutes, agenda and presentation materials will be included.
- 3) Story map and other web-based tools to convey project attributes.

13. BUDGET SUMMARY: Allowable budget categories and form of payment with the costs for this project are listed in the table below.

BUDGET SUMMARY BREAKDOWN

Budget Categories	Payment	Task 1	Task 2	Task 3	Task 4	Task 5	Grant Amount Awarded
Contractual Services	Fixed Price	\$8,000	\$41,000	\$5,000	\$5,000	\$6,000	\$75,000
GRANT AGREEMENT TOTAL		\$8,000	\$41,000	\$5,000	\$5,000	\$6,000	\$75,000

A. Describe how the project costs was determined: Project costs were determined by evaluating past efforts to assess vulnerability, and develop policy in the community, and review data to ensure that costs are reasonable and sufficient.

B. Other Project Funding Sources: \$10,000.00 City match funds.

OTHER PROJECT FUNDING SOURCES BREAKDOWN

Source Name (only if applicable)	Task 1	Task 2	Task 3	Task 4	Task 5	TOTAL
City Match	\$	\$	\$10,000	\$	\$	\$10,000
Total						\$10,000

C. SALARY BREAKDOWN: N/A

D. CONTRACTUAL SERVICES BREAKDOWN:

CONTRACTUAL SERVICES BREAKDOWN

Company Name	Task 1	Task 2	Task 3	Task 4	Task 5	Total
To Be Determined*	\$8,000	\$41,000	\$5,000	\$5,000	\$16,000	\$85,000
Contractual Total by Tasks	\$8,000	\$41,000	\$5,000	\$5,000	\$16,000	\$75,000

*Upon a selected Sub-Contractor, the Grantee will Provide a signed certification statement giving a description of the procurement process that was utilized for the selection of the sub-contractors. The description must include:

- a. A list of all entities that you received bids/quotes from,
- b. Names and addresses of those entities that provided bids/quotes,
- c. Actual amounts of the bids/quotes that were submitted, and
- d. Justification as to how & why you made your final selection.

14. PROJECT TIMELINE: All tasks are to be completed and submitted no later than the task/deliverable due date listed in the table below. Requests for any change must be submitted prior to the current task/deliverable due date listed in the project timeline. Requests are to be sent via separate email to the Department's Grant Manager, with the details of the request being made and the reason for the request.

PROJECT TIMELINE

Task No.	Task Title	Deliverable Due Date	Task Amount
1	Preliminary Vulnerability Assessment	08/31/2020	\$8,000
2	Draft Vulnerability Assessment	12/10/2020	\$41,000
3	Recommended Policy Alternatives for the Peril of Flood amendments	12/18/2020	\$5,000
4	Goals, Objectives and Policies for Peril of Flood amendments	02/15/2021	\$5,000
5	Public Engagement Meetings including visualization tools	03/19/2021	\$16,000
Total			\$75,000

15. PERFORMANCE MEASURES: The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline. The Department's Grant Manager will review the task/deliverables to verify that they meet the specifications in the Grant Work Plan and this task description, to include any work being performed by any sub-contractor(s). Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task, the Grantee may proceed with payment request submittal.

16. CONSEQUENCES FOR NON-PERFORMANCE: The Department will reduce each Task Funding Amount by 5% for every day that the task/deliverable(s) is not received on the specified due date in the most recent Project Timeline, for the Agreement. Should a Change Order or Amendment be requested on the date of or after the most current task/deliverable due date, the 5% reduction of that Task Funding Amount will be imposed until the date of the requested change is received, via email by the Department.

17. PAYMENT REQUEST SCHEUDLE: Grantee may submit a request for the Task Funding Amount to be paid using the Exhibit C, after all deliverables for that task have been approved by the Department. Request(s) for payment must include the Exhibit A showing 100% completion of that task and must be submitted within 45 days of the task/deliverable due date. Please refer to the [website Grants page](#) for "How to Request Payment", and "Checklist for Requesting Payment".

Or

Grantee may submit one request for the Grant Amount Awarded, by using the Exhibit C, after the project is 100% completed. The request for the Grant Amount Awarded, must include an Exhibit A showing 100% completion for all tasks, and must be submitted within 45 days of the last task/deliverable due date.

- 18. FUNDING SOURCE:** Grantee agrees to include on all publications, printed reports, audiovisuals (including videos, slides, and websites except that unless required under special terms of this Agreement, this requirement does not apply to audiovisuals produced as research instruments or for documenting experimentation or findings and which are not intended for presentation to the general public) or similar materials must include the DEP logo (which can be found on the Department's website at <https://floridadep.gov/resilience> or by contacting the Department's Grant Manager for a copy) and the following statement on, the following language.

"This work was funded in part through a grant agreement from the Florida Department of Environmental Protection, Florida Resilient Coastlines Program, by a grant provided by the Office of Resilience and Coastal Protection. The views, statements, findings, conclusions and recommendations expressed herein are those of the author(s) and do not necessarily reflect the views of the State of Florida or any of its subagencies."

The next printed line shall identify the month and year of the publication.

III. TASKS & DELIVERABLES

Task #1

- A. **Title:** Analysis of Existing Data Resources for Preliminary Vulnerability Assessment, Best Practices and Case Studies and Peril of Flood amendments.
- B. **Goal:** The goal of this Task is to research and survey available Federal, State, Regional and City data sources for the development of the Preliminary Vulnerability Assessment and research best practices and case studies for developing Peril of Flood amendments in Florida.
- C. **Description:** Previous work done in the Coastal Vulnerability Assessment: Escambia County, Florida Contract # C1469 Florida Department of Economic Opportunity, June 24, 2016 identified flood threat under various flooding conditions and sea level rise scenarios in 2045 and 2085. Work completed did not tie future vulnerabilities to existing City assets or infrastructure, nor was a policy structure developed for implementing adaptation or vulnerability response.

The goal of this Task is to work from existing data sources, build upon previous vulnerability work including that of the CMATF and the Escambia Vulnerability Assessment and better define existing, needed or future data sources to help further vulnerability planning efforts of the City. Surveying available and needed data sources has a two-fold purpose: 1) assess available information for the Preliminary Vulnerability Assessment and 2) provide information that can be incorporated into the contemplated Peril of Flood amendments for the Comprehensive Plan.

Initial identification of data sources has occurred, but a primary effort will be to update these sources, categorize them and identify areas where the City can develop more finite information or manage its data in such a way to assist with future vulnerability updates to have best available data for decision-making.

- D. Deliverables:** The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.
- 1) Draft Analysis of Existing Data Resources for Preliminary Vulnerability Assessment, Best Practices and Case Studies and Peril of Flood amendments.
 - 2) Agenda and Minutes from meeting with City staff to present draft findings and refine analysis results.
 - 3) Final Analysis of Existing Data Resources for Preliminary Vulnerability Assessment, Best Practices and Case Studies and Peril of Flood amendments.

Task #2

- A. Title:** Draft Vulnerability Assessment with Map Series.
- B. Goal:** Based on existing data sources and those that can be obtained during the granting period, a Preliminary Vulnerability Assessment with Map Series will be produced to support Peril of Flood Amendments. This will also build from 2016 vulnerability work but improve datasets to address actual City assets and infrastructure.
- C. Description:** The Coastal Vulnerability Assessment: Escambia County, Florida, Contract # C1469 Florida Department of Economic Opportunity, June 24, 2016 used sea level rise scenarios in 2045 and 2085 but did not incorporate City-specific threats and impacts. Utilizing a broader set of tools and datasets, this Task will put a finer point on potential timelines and level of risk for infrastructure, City Buildings/facilities, stormwater management and the social aspects of future vulnerability using tools not previously utilized.

The previous sea level rise scenarios will be reviewed for updates and examples will be analyzed in this Task to determine if modifications are needed to those previously utilized sea level rise projections. Since many other jurisdictions across the state have begun planning, and in many cases regionally, the City can also build upon discussions within Santa Rosa County, as part of the partnership with UF IFAS Sea Grant, University of West Florida (UWF), and Emerald Coast Regional Council (ECRC), for the Northern Gulf of Mexico Resilience efforts.

Recommendations from the Preliminary Vulnerability Assessment with Map Series will include an implementation strategy and identification of data collection and management techniques to support future updates. The Preliminary Vulnerability Assessment will also include an analysis of integration with FEMA's CRS program.

- D. Deliverables:** The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.
- 1) Draft report of preliminary vulnerability assessment with map series and analysis of integration with FEMA's CRS program
 - 2) Agenda and Minutes from meeting with City staff to present draft findings and finalize vulnerability results.
 - 3) Final Preliminary Vulnerability Assessment with Map Series.

Task #3

- A. Title:** Memorandum of Recommended Policy Alternatives for the Peril of Flood amendments.

- B. Goal:** The goal of this deliverable is to research the various approaches local governments have taken to integrate vulnerability data into their Comprehensive Plans. This Task structure with a Preliminary Vulnerability Assessment will inform the City's options to develop the types of Goals, Objectives and Policies that will fit its efforts.
- C. Description:** Local governments have taken a wide-ranging set of approaches for implementation of their Peril of Flood amendments. Some have addressed the requirements more narrowly related to issues along shorelines, waterfronts or tidal impacts or in just text format. Others have taken a more expansive view of compliance addressing high-tide events, storm surge, flash floods, stormwater runoff, and the related impacts of sea level rise across the entire community. The City's approach will be largely influenced by available data and the scope of the resulting recommendations from the Preliminary Vulnerability Analysis.
- Case studies of strategies, principles and related engineering solutions will be examined to arrive at an approach for the City's structure to its Goals, Objectives and Policies.
- D. Deliverable(s):** The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.
- 1) Draft Memorandum of recommended policy alternatives for the Peril of Flood amendments.
 - 2) Agenda and Minutes from meeting with City staff to present Memorandum of recommended policy alternatives and finalize results.
 - 3) Final Memorandum of Recommended Policy Alternatives for the Peril of Flood amendments

Task #4

- A. Title:** Goals, Objectives and Policies for Peril of Flood amendments.
- B. Goal:** The goal of this Task will be to develop strike/underline format Peril of Flood amendments for the Comprehensive Plan. Other Goals, Objectives and Policies for other elements may be developed to accompany those for the Coastal Element depending on outcomes from Task 3: The Preliminary Vulnerability Assessment.
- C. Description:** The City is currently undertaking efforts to update its Comprehensive Plan but acknowledges to this point that actual City-specific vulnerability data has not been developed except for limited maps and data created in the Coastal Vulnerability Assessment: Escambia County, Florida (2016). This grant seeks to remedy that missing information and provide a data-driven basis for updating the Comprehensive Plan with strategies, principles and related engineering solutions based on outcomes from Task 3.
- More readily as local governments are transmitting their Peril of Flood amendments to the Department of Economic Opportunity, there may or may not be a data-specific basis to support them. At a minimum, four (4) examples of strategies, principles and engineering solutions will conceivably flow from the Preliminary Vulnerability Analysis and the results of Task 1. Amendments will be structured in strike/underline format and be supported by Data, Analysis and maps.
- D. Deliverable(s):** The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.
- 1) Draft comprehensive plan language in strike-through and underlined format which satisfies the Peril of Flood requirements in Section 163.3178(2)(f) Florida Statutes, which includes:

- a. Examples of strategies, principles, and related engineering solutions that reduce flood risk in coastal areas which results from high-tide events, storm surge, flash floods, stormwater runoff, and the related impacts of sea-level rise,
 - b. Use of best practices development and redevelopment principles, strategies, and engineering solutions that will result in the removal of coastal real property from flood zone designations established by the Federal Emergency Management Agency,
 - c. Site development techniques and best practices that may reduce losses due to flooding and claims made under flood insurance policies issued in this state,
 - d. Be consistent with, or more stringent than, the flood-resistant construction requirements in the Florida Building Code and applicable flood plain management regulations set forth in 44 C.F.R. part 60,
 - e. Requirement that any construction activities seaward of the coastal construction control lines established pursuant to s. 161.053 be consistent with chapter 161, and
 - f. Encouragement of local governments to participate in the National Flood Insurance Program Community Rating System administered by the Federal Emergency Management Agency to achieve flood insurance premium discounts for their residents.
- 2) Agenda and Minutes from meeting with City staff to present draft Goals, Objectives and Policies
 - 3) Final Goals, Objectives and Policies for Peril of Flood amendments.

Task #5

- A. **Title:** Public Engagement Meetings including visualization tools.
- B. **Goal:** This Task will result in meaningful community dialogue building upon the work of the CMATF. Opportunities for internal and external engagement will assist in providing two-way communication with staff and the community to seek support and feedback for the grant work products.
- C. **Description:** Through the CMATF, the City has continued the dialogue surrounding climate, sea level rise and flooding issues. With that work now complete, the City has entered a new need and phase in its climate planning: City-specific vulnerability recommendations and integration with the City's Comprehensive Plan to effectuate policy outcomes. Once data has been developed, a Public Workshop will be held to present results and gain feedback for input into the planning process.

Once goals, objectives and policies are drafted, the City Council will be informed through a Workshop to seek policy direction for integration into the planning process. This will also provide another opportunity for public input. The important part of the effort will be to tie the Goals, Objectives and Policies to data-driven Recommendations from the Preliminary Vulnerability Assessment. Also important to this deliverable will be an explanation of the data utilized and the need to fully integrate these issues into all relevant City decision-making.

Finally, the City will develop an online communications tool, likely a story map, based on available data available and that generated from the Preliminary Vulnerability Assessment. The City will then make this resource available to further outreach and education efforts on the City's planning efforts so that benefits will continue to accrue beyond the conclusion of the granting period.

- D. **Deliverables:** The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.

- 1) Public Workshop to present results of Preliminary Vulnerability Assessment and seek input on the formulation of Goals, Objectives and Policies:
 - a. Copies of all workshop announcements/advertisements
 - b. Agendas and sign-in sheets from each workshop indicating location, date, and time of the meeting
 - c. Presentations and other meeting materials/handouts
 - d. Brief summary report from each workshop/meeting including attendee feedback and workshop outcomes
 - e. Any materials created at each workshop/meeting (as applicable)
- 2) City Council Workshop #1 to seek policy direction on Preliminary Vulnerability Assessment and Goals, Objectives and Policies.
 - a. Meeting agenda
 - b. Presentation and other meeting materials /handouts
 - c. Brief summary report from each workshop/meeting including attendee feedback and workshop outcomes
 - d. Any materials created at each workshop/meeting (as applicable)
 - e. Minutes, records of votes, resolutions approved at the meeting
- 3) URL to story map and other web-based tools to convey project attributes.