

Grant Funding Type

Funding for Resilient Florida – Planning Projects

1. Application and Project Information

Applicant Account Hernando County

Applicant Grant Manager

Applicant Authorized Signee

Applicant Fiscal Agent

2. Project Information

Complete Vulnerability Assessment (entire community)

Project Title

Hernando City-County Vulnerability Assessment

Total Grant Funding Amount Requested

\$ 400,000

Total Grant Match Amount

\$ 0.00

List any municipalities directly served by the project and included in the scope of work. In the next step you will select the counties, if all municipalities are included that will be in the counties selected below, enter "all-inclusive."

All-inclusive

Area Served

Hernando County

Will the vulnerability assessment include any state managed lands such as National Estuarine Research Reserves (NERRs) or Aquatic Preserves (APs)?

None

Total Population

200,638

Percent of Population

100%

3. Project Work Plan

Project Summary

This project is a multijurisdictional Vulnerability Assessment to meet the State Requirement. It will cover Hernando County and the municipality of Brooksville.

Project Description

The project will create a vulnerability assessment for Hernando County and its municipalities in compliance with the requirements of s.380.093 F.S. The County will partner with the TBRPC who will serve as a subrecipient responsible for project management. TBRPC will complete an RFP process to engage the services of an engineering services consultant to conduct the Vulnerability Assessment. The vulnerability assessment will engage stakeholder and the public through outreach meetings.

The VA will begin with an exposure analysis, following the guidelines in s. 380.093, F.S. including an identification of the depth of water caused by each flood scenario. This will be followed by a sensitivity analysis, following the guidelines in s. 380.093, F.S. which measures the impact of flooding on assets, applying the data from the exposure analysis to the inventory of critical assets.

The final report will include tables and maps illustrating flood depths for each flood scenario; GIS files with results of exposure analysis for each flood scenario, with appropriate metadata identifying the methods used to create the flood layers. The Vulnerability Assessment Report will detail the findings of the exposure analysis and the sensitivity analysis, including visual presentation of the data via maps and tables. It will also include a list of critical and regionally significant assets that are impacted by flooding, prioritized by area or immediate need, specifying for each asset which flood scenario(s) it was impacted by.

The VA will be incorporated into the LMS in the next update cycle.

4. Project Need and Benefit

Explain the demonstrated need, which the project addresses

The County has yet to conduct a vulnerability assessment in alignment with s.380.093, F.S. The Vulnerability Assessment will give the county and the municipalities a deeper understanding of the vulnerability of critical assets and essential information for prioritizing mitigation projects.

Explain how the proposed project fits into one or more of the Project Types

N/A

If the project is a Vulnerability Assessment for Peril of Flood compliance or other, please describe how the project will meet the outlined requirements for a Vulnerability Assessment under s. 380.093, F.S.

The vulnerability assessment will comply with s.380.093, F.S. through the inclusion of the following flood depths:

- Tidal flooding, including future high tide flooding, which must use thresholds published and provided by the department.
- Current and future storm surge flooding using publicly available NOAA or FEMA storm surge data. The initial storm surge event used must equal or exceed the current 100-year flood event.
- Inland riverine flooding
- To the extent practicable, rainfall-induced flooding using spatiotemporal analysis or existing hydrologic and hydraulic modeling results.
- To the extent practicable, compound flooding or the combination of tidal, storm surge, and rainfall-induced flooding.

And the following scenarios and standards in NAVD 88:

- At least two local sea level rise scenarios, including the 2017 NOAA Intermediate-Low and Intermediate-High sea level rise projections.
- At least two planning horizons that include planning horizons for the years 2040 and 2070.
- Local sea level data that has been interpolated between the two closest NOAA tide gauges.
- Encompasses the entire county or municipality and includes all critical assets owned or maintained by the county or municipality.
- Will use the most recent publicly available Digital Elevation Model and generally accepted modeling techniques.

If applicable, explain how the proposed project adapts critical assets to the effects of flooding and sea level rise as defined in s. 380.093, F.S.

N/A

Discuss how the project is feasible and can be completed by the grant period deadline.

The project is feasible because the Tampa Bay Regional Planning Council will support the development of the Vulnerability Assessment through a regionally coordinated Request for Proposals to bring on a consultant to complete the technical portions of the VA. The County will serve as the grantee, and TBRPC will serve as the primary subgrantee tasked with project management.

Has the applicant entity(ies) performed a prior vulnerability assessment, separate from what is being proposed in this application?

No

5. Tasks

Task Number 1

Task Title Project Management Plan

Work Performed by TBRPC

Task Description TBRPC will create a project timeline, issue a Request for Proposals (RFP) for consultant to conduct the vulnerability assessment, select a subcontractor

Goal Identify a consultant to provide modeling services

Time to Completion December 31, 2022

Deliverables

- RFP
- Subcontract between TBRPC and Vulnerability Assessment (VA) Consultant

Other Deliverable NA

Task Number 2

Task Title Set Context - Establish goals/motivations, assemble steering committee, and public outreach

Work Performed by TBRPC and VA Consultant

Task Description Hold meeting(s) with steering committee, including county/municipality staff, elected officials, technical experts, etc., to define the motivations, geographic context, relevant assets, and planning goals for the project. Hold public meeting(s) to present the motivations, geographic context, relevant assets, and planning goals for the

project. Allow public to provide input during the initial data collection stages on guiding factors to consider and critical assets important to the community.

Goal Public Outreach

Time to Completion December 31, 2022

Deliverables Meeting agenda indicating location, date, and time of meeting; sign-in sheets identifying the number of citizens, steering committee attendees, and county/municipality staff attendees; presentation(s) from the meeting; video or audio recording from the meeting posted to public webpage, if available; summary report including attendee input and meeting outcomes.

Other Deliverable

Task Number 3

Task Title Acquire Background Data

Work Performed by VA Consultant

Task Description Research and compile the data needed to perform the Vulnerability Assessment

Goal Identify Data gaps

Time to Completion March 31, 2023

Deliverables Data Gap Report

Other Deliverable

Task Number 4

Task Title Draft Vulnerability Assessment

Work Performed by VA Consultant

Task Description Perform the exposure analysis, following the guidelines in s. 380.093, F.S. as outlined in the Technical Standards Guidance. Identify the depth of water caused by each flood scenario. Perform the sensitivity analysis, following the guidelines in s. 380.093, F.S. Measure the impact of flooding on assets, applying the data from the exposure analysis to the inventory of critical assets created in the previous task. Include an evaluation of the impact of flood severity on each asset type at each flood scenario and assign a risk level based on percentages of land area inundated and number of critical assets affected. Hold a public meeting to present the results from the exposure analysis, sensitivity analysis, and draft Vulnerability Assessment. Allow the public to provide input on guiding factors to consider for possible areas of focus for the final Vulnerability Assessment. Identify focus areas.

Goal Draft the VA

Time to Completion May 31, 2023

Deliverables

- Tables and maps illustrating flood depths for each flood scenario; GIS files with results of exposure analysis for each flood scenario, with appropriate metadata identifying the methods used to create the flood layers.
- Draft Vulnerability Assessment Report detailing the findings of the exposure analysis and the sensitivity analysis, including visual presentation of the data via maps and tables.

- An initial list of critical and regionally significant assets that are impacted by flooding, prioritized by area or immediate need, specifying for each asset which flood scenario(s) it was impacted by.
- Meeting agenda indicating location, date, and time of meeting; sign-in sheets identifying the number of citizens, steering committee attendees, and county/municipality staff attendees; presentation(s) from the meeting; video or audio recording from the meeting posted to public webpage, if available; summary report including attendee input and meeting outcomes, to include defining focus areas recommended by the community.
- A report summarizing the areas identified as focus areas, with justification for choosing each area; tables listing each focus area with any critical assets that are contained inside the focus area; maps illustrating the location of each focus area compared to the location of all critical assets within the geographic extent of the study.

Other Deliverable

Task Number 5

Task Title Final Vulnerability Assessment

Work Performed by VA Consultant

Task Description Further develop and finalize the Vulnerability Assessment. Hold a public meeting to present the results from the final Vulnerability Assessment.

Goal Complete the VA

Time to Completion June 30, 2023

Deliverables

- Final Vulnerability Assessment Report detailing the findings, including illustrations via maps and tables
- Meeting agenda indicating location, date, and time of meeting; sign-in sheets identifying the number of citizens, steering committee attendees, and county/municipality staff attendees; presentation(s) from the meeting; video or audio recording from the meeting posted to public webpage, if available; summary report including attendee input and meeting outcomes.

Other Deliverable

Task Number 6

Task Title Local Mitigation Strategy (LMS)

Work Performed by VA Consultant

Task Description Work with Local Mitigation Strategy Working Group (LMSWG) to ensure Vulnerability Assessment Report is in alignment with existing county LMS Plan and is utilized during the planning process of future county LMS Plan updates.

Goal LMS Integration

Time to Completion June 30, 2023

Deliverables

- Letter to FDEP and Florida Division of Emergency Management (FDEM) Mitigation Bureau Planning Unit, signed by the LMSWG Chair, or Designee confirming future integration of VA into LMS.

Other Deliverable

6. Task Budget Category

Choose the Application Task Number 1

Expense Budget Category Project Management

Budget Amount \$50,000

Match Amount \$0

Choose the Application Task Number 2

Expense Budget Category Set Context

Budget Amount \$45,000

Match Amount \$0

Choose the Application Task Number 3

Expense Budget Category Data Collection

Budget Amount \$65,000

Match Amount \$0

Choose the Application Task Number 4

Expense Budget Category Draft Assessment

Budget Amount \$145,000

Match Amount \$0

Choose the Application Task Number 5

Expense Budget Category Final Assessment

Budget Amount \$75,000

Match Amount \$0

Choose the Application Task Number 6

Expense Budget Category LMS

Budget Amount \$20,000

Match Amount \$0