



**Town of Surfside, Florida**  
CID# 120659

CRS Activity 510, Floodplain Management Plan  
Annual Progress Report 2020

*Date this Report was Prepared:* February 17, 2020

*Name of Community:* Town of Surfside, FL

*Name of Plan:* Miami-Dade County Local Mitigation Strategy

*Date of Adoption of Plan:* May 17, 2017

*5 Year CRS Expiration Date:* October 1, 2022

1. *How can a copy of the original plan be obtained?*

At the following website address:

<https://www8.miamidade.gov/global/emergency/projects-that-protect.page>

2. *Describe how this evaluation report was prepared and how it was submitted to the governing body, released to the media, and made available to the public:*

This report was prepared by Ross Prieto, Town of Surfside Building Official and CRS Coordinator. The report will be presented to the Town Commission by memo from the Town Manager. A press release was prepared. The report is posted to the Town's "Hurricane and Flood Information" webpage.

3. *Provide a description of the implementation of each recommendation or action item in the action plan, including a statement on how the project was implemented or not implemented during the previous year:*

- Conduct a study of storm surge mitigation measures:
  - Estimated Cost: \$50,000
  - Completion Timeframe: unknown
  - Project Description: The town is subject to the loss of sand from its beaches and has proposed a study to determine if any measures are available to mitigate the effects of storm surges
  - Progress to date: THE SUSTAINABILITY COMMITTEE IS TASKED WITH ADDRESSING THESE AREAS THIS YEAR AS PART OF THEIR COMMISSION.
  
- Remove Overhead Utility Lines
  - Estimated Cost: Unknown
  - Completion Timeframe: Unknown
  - Project Description: Burying overhead utility lines would reduce future power outages during disaster and improve the aesthetics of the town.
  - Progress to date: PROJECT IS STILL UNDER CONSIDERATION
  
- Stormwater Management System Improvements
  - Estimated Cost: Unknown
  - Completion Timeframe: Unknown
  - Project Description: There are areas of Surfside that flood repeatedly. This project would improve the stormwater management system in those areas to reduce flooding in future disasters.
  - Progress to date: ENGINEERING STUDY HAS BEEN COMPLETED; IMPROVEMENTS ARE BEING CONSIDERED
  
- As a member of the American Flood Coalition, the Municipality has been provided with the opportunity for a no-cost pilot project to conduct a Flood Adaptation Assessment using the City Simulator Tool developed by Atkins (“Firm”). The Atkins City Simulator Tool builds a virtual model of a community including buildings and infrastructure, based on the available GIS data. Once the virtual “city” is built, users simulate the “city” growing over time. The tool incorporates rainfall forecasts, sea level rise projections, and other disaster modeling to assess the vulnerability of the municipality to different types of flooding over time. Beyond inundation depth, trained users can select metrics such as productivity and dollars lost due to flooding, number of commutes affected, impact on natural assets, and more.
  - PROJECT IS ON-GOING
  
- Alleyway 9500-9600 Electrical Connections/Drainage
  - Projected Cost: \$500,000 budgeted for FY 2020
  - PROJECT HAS NOT BEEN COMPLETED

4. *Discuss why any objectives were not reached or why implementation is behind schedule:*

All funded projects are on schedule.

5. *What are the recommendations for new projects or revised recommendations?*

- Alleyway 9500-9600 Electrical Connections/Drainage
  - Projected Cost: \$500,000 budgeted for FY 2020
  - PROJECT HAS NOT BEEN COMPLETED
- Dune Survey and Beach Management Plan
  - On July 10, the Town Commission approved the proposal and work authorization with Calvin Giordano & Associates, Inc. to perform a dune survey and beach management plan.
  - Progress to date: PLACED ON HOLD, BEACH RENOURISHMENT PROJECT BY ARMY CORPS OF ENGINEERS THIS YEAR
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  - Estimated Cost:
  - Completion Timeframe: Unknown
  - Project Description: There are areas of Surfside that flood repeatedly. This project would improve the stormwater management system in those areas to reduce flooding in future disasters.
  - Progress to date: ENGINEERING STUDY HAS BEEN COMPLETED; IMPROVEMENTS ARE BEING CONSIDERED
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  - Completion Timeframe: Unknown
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  - Estimated Cost: \$50,000
  - Completion Timeframe: unknown
  - Project Description: The town is subject to the loss of sand from its beaches and has proposed a study to determine if any measures are available to mitigate the effects of storm surges

- Progress to date: THE SUSTAINABILITY COMMITTEE IS TASKED WITH ADDRESSING THESE AREAS THIS YEAR AS PART OF THEIR COMMISSION.

***Completed projects:***

- Urging the United States Congress to support language in the FY 2018 Federal Appropriations Bill and the 2018 Disaster Recovery Supplemental providing for 100 percent federal funding of the South Atlantic Coastal Study authorized in Section 1204 of the Water infrastructure improvements for the Nation Act, with the necessary language and funding to ensure inclusion of the previously authorized Central South Florida Flood Control Project and its area as part of this study
  - Progress to date: Resolution was adopted at the February 13 Commission meeting
- Amending Chapter 42, "Floods", Section 42-92, "Specific Standards" to address lowest floor elevation requirements for single family residential structures.
  - Progress to date: Town Commission voted to adopt the amended ordinance at the Feb 13th meeting.
- Amending Town code requiring property owners to maintain the right-of-way adjacent to their property. Owners are expected to eliminate all types of mulch from the front of their property. Heavy rain storms will often wash mulch onto the roadways and eventually into the Town's storm drain system. Debris in the storm drain system goes directly into Biscayne Bay.
  - Project progress: COMPLETED
- Repair of Street Ends on Biscayne Bay
  - Repair the sea walls and drains at the street ends along Biscayne Bay.
  - Funding: The Town of Surfside received a \$350,000 grant from the Florida Inland Navigation District (FIND). The check was presented at the May 8 Town Commission meeting.
  - Progress to date: COMPLETED
- Drainage Study for Abbott Avenue
  - The Town Commission approved a work authorization to Calvin Giordano & Associates, Inc. to perform the drainage study for Abbott Avenue
  - Progress to date: COMPLETED
- Install Tideflex Check Valves at critical outfalls

- The intent of these valves is to allow for water to drain out of the storm water system while restricting the inward flow caused by natural bodies of water such as the bay.
- Progress to date: Prior to the 2018 King Tide season, the Town of Surfside Public Works Department underwent an in-house project to install a total of ten Tideflex check valves at ten critical outfalls throughout the Town. The diameter of these valves varied from 15 inches to 36 inches.
- Refurbish Pump Station
  - Refurbishment is critical for pump stations since corrosion and deposits limit the efficiency of the components and decrease the life cycle. Pump stations pump rainwater off roadways during rain events.
  - Progress to date: Public Works performed maintenance on the 92<sup>nd</sup> Street pump station by refurbishing pumps and pump shafts that have been in operation for over 20 years.
- *Town of Surfside Climate Crisis: Overview, Actions Taken & Next Steps*
  - First Edition published in November 2019, complete with an Action Plan.
- Dune Survey and Beach Management Plan
  - U.S. Army Corp of Engineers Beach Re-nourishment Project, in coordination with Miami-Dade County and the Town of Surfside, has placed approximately 330,000 cubic yards of beach quality sand, hauled by trucks from an upland mine, to re-nourish the public beach in Surfside. The work was accomplished by Continental Heavy Civil Corp of Miami, Florida, which was awarded the \$17.9 million contract by the U.S. Army Corps of Engineers Jacksonville District. The re-nourishment project officially began in August of 2019 and was completed in February of 2020.
- Generator Relocation
  - New Generator was installed which provides full emergency back-up power to the entire facility.
- Obtain Backup Generators
  - See above