



CRS Activity 510

Progress Report on Implementation of Credited Flood Mitigation Plan 2019

Date this Report was Prepared: May 3, 2019

Name of Community: City of Largo, Florida

Name of Plan: *Pinellas County Local Mitigation Strategy*

Date of Adoption of Plan: September 15, 2015

5 Year CRS Expiration Date: March 2020

1. *How can a copy of the original plan or area analysis report be obtained?*

The Pinellas County Local Mitigation Strategy, including the items that pertain specifically to the City of Largo, can be accessed online at the following website: pinellaslms.org/pdf/current_LMS_plan.pdf . The results of the most recent update meeting can be found here: [Pinellas Proposed Local Mitigation Strategy 2018](#)

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:*

The report was prepared by Robert Hatton, CRS Coordinator. The report will be placed on the City's website, released to the media, and presented to the Commission via memo.

The City's representative to the Pinellas County Local Mitigation Strategy Working Group attends meetings on a regular basis. Current action items are updated regularly, and new action items are added as deemed appropriate. This report includes a summary of the action items designated for the City of Largo as they currently appear on the LMS and as they are updated by more timely information.

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:*

Project Name: Fire Station Renovation Program

The City of Largo operates six fire stations, 38, 39, 40, 41, 42 and 43. The stations are in need of significant repair, maintenance, and upgrade in order to remain operational. Consequently, the City began implementing Facilities Management Division and consultant recommendations for repair and maintenance to the various fire stations. Concurrently, the City also began reconstruction of the fire stations due to age and condition. Fire Stations 38, 39, and 42 are scheduled for replacement in the next Penny cycle starting in FY 2020.

Progress: Renovations at Fire Station 41 nearly complete. Last major renovation projection involves the HVAC replacement in FY 2021. Other remaining renovations include the Station 39 roof replacement and Station 40 Roof Rehabilitation in FY2020.

Timeline: FY 17-FY 21

\$430,000 General (Local Fund)

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: Fire Station 38 Reconstruction

This is the youngest of the three proposed stations however still has many of the same issues. The roof and HVAC systems will need replacing, the building will need to be brought up to ADA and NFPA standards and living quarters will need redesign and reconfiguration. This building has gone through many changes due to personnel additions and changes over the last ten years. The current building is 6,500 square feet and was constructed in 1986.

Timeline: N/A

\$4,000,000 Unfunded

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: Fire Station 39 Reconstruction

This building has exceeded its useful life and currently is in need of a roof replacement and internal renovations. The building has no separated living quarters and has inadequate storage space for the needs of the department. This project is intended to work in coordination with the county project to rebuild Rainbow Village. The current building is 5,300 square feet and was constructed in 1979.

Timeline: N/A

\$4,000,000 N/A Unfunded

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: Fire Station 42 Reconstruction

On top of issues regarding access and the age of the facility, the building has had multiple roof replacements, renovations, and updates throughout its life. It is recommended that a new building be built with better access for apparatus and better separation of living quarters for firefighters. The current building is 5,300 square feet and was constructed in 1978.

Timeline: N/A

\$4,000,000 N/A Unfunded

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: Lift Station Flood Plain Mitigation

A number of the Wastewater Reclamation Facility (WWRF) sanitary sewer lift stations are in the flood plain. Continuity of operations of these lift stations is at risk during high rain and/or flooding events. This project included a consultant Preliminary Engineering Basis Design in FY 2019 and a consultant design in FY 2020 to raise critical infrastructure above the flood plain at Lift Stations 19, 26, 41, 47. Included in the Preliminary Engineering phase will be a task to determine the feasibility to add emergency power generation to each site if space is available. Construction and construction inspection services are scheduled for FY 2021. The cost estimate for the construction phase will be updated subsequent to the completion of the design.

Timeline: FY 20-21

\$3,550,000 Currently Unfunded HMGP

Project Name: 126 Ave Church Creek Storm Drainage Improvements

Project will construct large conveyance piping to eliminate repeat property flooding and damage/1

Timeline: FY 24

\$1,750,000 Unfunded Local Funding

Reviewed by Matt DiFiore during LMS Annual Review 6/10/2019

Project Name: WWRF – Operations Center Reconstruction

The existing WWRF control building and laboratory, both of which are approximately 40 years of age, are not hurricane hardened. As these structures are essential to treatment plant operations, the Department would like to construct a new facility so that staff could continue to operate the plant after a storm event. This would entail design and construction of a new two-story building overlooking the process trains, which would be hurricane hardened for safe quartering during a storm. It would contain the main control room for SCADA workstations, a server room, a full laboratory for permit required lab analysis, storage for chemicals & supplies, a bunker/lounge area, a records room, and a variety of other needs to be determined during the design process.

Timeline: FY 19-20

\$7,000,000 Wastewater (Local Fund)

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: Municipal Center & Public Parking Garage

The current City Hall building is 57,740 square feet and 46 years old. The building contains numerous critical needs including, but not limited to: issues with essential building systems, ADA compliance, energy efficiency, disaster resiliency, structural integrity, and space shortage. The project has been funded in the General Fund. The funding schedule includes \$150,000 for a preliminary design and space needs analysis. Estimated project cost is \$25 million dollars, which includes a public parking garage.

Timeline: FY 20-FY24

\$25,000,000 Unfunded

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: Public Works Complex Reconstruction

Due to the complex being built on a former closed landfill, the soil underneath the complex is giving way to considerable damage to both the pavement used around the building and the buildings themselves. The Administration building is showing settling in both the facilities workshop and the fleet central stores area and while currently not a structure issue, may be in the near future. The building does not currently meet some ADA requirements for facilities of this nature and size and the building has had multiple issues with water intrusion over the past ten years. It is in the intention that through this project Public Works administrative and management functions can be reviewed, centralized, and coordinated more efficiently. This project scope and cost is based upon engineering estimates and a space needs analysis done in 2013. Costs include the environmental remediation, the moving of the fuel island, the consolidation of the divisions into one building, and associated vehicle storage areas. Total square footage of existing buildings is 44,528, Public Works Administration and Fleet building was constructed in 1976 and the Solid Waste facility was constructed in 1990.

Timeline: N/A

\$18,000,000 N/A Unfunded

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: Venetian Gardens Improvements

The purpose of this project is to replacement the failed organgeburg underdrain within the Venetian Gardens subdivision. This area lies within the Allen's Creek drainage basin to the west of Belcher Road and just north of Allen's Creek on the roadways of Wateroak Drive, Wasterside Drive and Watergate Court. This project includes the replacement of all the existing underdrain, adding new 6 inch PVC underdrain to the areas in need, and the replacement of settled curb, damaged driveways and repair of roadway base where needed Staff will evaluate and rehabilitate the entire pavement surface as needed within the Venetian Gardens subdivision.

Timeline: FY 22-23

\$1,882,000

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: Clearwater Largo Rd Best Management Practices

The Clearwater-Largo Road Drainage District Study update, completed in 2013, proposed best management practice (BMP) alternatives to address areas that experienced significant flooding during seasonal summer rains and to comply with National Pollutant Discharge Elimination System (NPDES) regulations. Seven of the proposed BMP alternatives, listed below, were identified for implementation based on jurisdictional considerations and general feasibility and include replacement or new construction of curb and gutter, swales, inlets, ponds and pipes.

- At 10th Ave NW - curb & gutter replacement and swale
- From Beverly Ave NW to 15th Ave NW - curb & gutter replacement and swale
- At 16th Ave NW - replace inlet cover and curb & gutter
- At New York & New Jersey Streets - inlet improvements
- 13th Ave NW at Pinellas Trail – swale extension with culverts
- Stremma Rd and 4th Street NW – swale & pipe improvements
- 4th St & 8th Ave NW – water treatment pond

Timeline: FY 20-21

\$351,000

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: Cross Bayou Best Management Practices Implementation

The Cross Bayou Basin Watershed Management Plan, completed in 2013, identified Best Management Practices (BMPs) designed to provide flood control and water quality benefits. This project is one of the BMPs identified in the study.

The Pinebrook Canal between 142nd Avenue North and Ulmerton Road floods during the 100-year/24-hour and 25-year/24-hour storms. To mitigate flooding, the project involves re-grading and stabilizing or possibly armoring portions of approximately 5,200 feet of the Pinebrook Canal where bank failures have reduced conveyance capacity. The BMP also calls for replacing the 5-foot-by-7-foot concrete box culvert under Ulmerton Road with two 5-foot-by 7-foot box culverts.

The study provided a general assessment of the drainage issues but further evaluation is required to fully address flooding concerns.

Timeline: FY 21-22

\$800,000

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: Allens Creek Best management Practices Implementation

The Allens Creek Basin Watershed Management Plan, completed in 2013, identified Best Management Practices (BMPs) designed to provide flood control and water quality benefits.

This project is a combination of two BMPs identified in the study. First, it is proposed to replace the four 48-inch culverts under St. Paul's Drive with three 5-ft by 12-ft concrete box culverts. The proposed alternative is predicted to significantly improve flooding conditions within the Belleair Road/St. Paul's Drive area. Second, the Deville Drive area is drained by a 287-foot long 36-inch concrete pipe. Flooding in this residential area can be greatly reduced by installing a parallel 48-inch pipe to the existing outfall.

The study provided a general assessment of the drainage issues but further evaluation is required to fully address flooding concerns.

Timeline: FY 21-22

\$1,200,000

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: Starkey Road Basin Best Management Practices Implementation

The Starkey Road Basin Watershed Management Plan, completed in 2012, identified Best Management Practices (BMPs) designed to provide flood control and water quality benefits.

This project is a combination of three BMPs identified in the study. It proposes upgrading the culvert at Starkey Road on Channel 10 near the East Bay Oaks Mobile Home Community and at Lake Palms Drive on Channel 10 combined with re-grading the south-flowing tributary ditch west of Dahlia Place and Gardenia Place to expand the bottom width and recreate a positive ditch bottom gradient. New inlet/collection structures between the Dahlia Place and Gardenia Place cul- de- sac roadway are also proposed to fully convey roadway runoff through the collector system without overflow down driveways.

The previous study provided a general evaluation of the drainage issues, but further evaluation is required as part of this project to fully address the drainage issues.

Timeline: FY 21-22

\$600,000

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Project Name: WWRF Master Plan Improvements – Biological Treatment Systems

The City's Wastewater Reclamation Facility (WWRF) Master Plan encompasses a number of major wastewater infrastructure improvement projects intended to provide protection from sanitary

sewer overflows, accommodate population growth, comply with effluent limitations, and replace deteriorated and antiquated infrastructure.

Timeline: FY 20-21

\$56,523,250 Wastewater (Local Fund)

Reviewed by Matthew DiFiore during LMS Annual Review 6/10/2019

Recently Completed Project Name: Stormwater Program Update

The Regional Watershed Management Planning project was initiated in the FY2012-2016 CIP and identified the need for the development of a City-wide Watershed Management Plan for the various drainage basins (Starkey, Longbranch, Allen's Creek, McKay Creek) and sub-basins located in the City of Largo. This project included joint funding and participation with the South West Florida Water Management District, Pinellas County, City of Clearwater and other entities that share jurisdiction within the watersheds. The watershed management plans for McKay Creek, Allen's Creek, Long Branch Creek, Starkey Road Basin, and the Clearwater-Largo Road Drainage District Study were completed by FY14. The purpose of this project is to begin planning and designing stormwater system improvements based on the Best Management Practices (BMPs) identified in the Watershed Plans to address flooding, water quality, infrastructure rehabilitation, and meet regulatory requirements. This project will contribute to compliance with the City's National Pollutant Discharge Elimination System (NPDES) stormwater permit and pending Total Maximum Daily Loads (TMDL's) regulations which are administered by the Florida Department of Environmental Protection.

Timeline: **Completed**

\$250,000 Stormwater (Local Fund)

Updated by Jerald Woloszynski 10/25/2017

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

Projects are on schedule and moving forward as anticipated.

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

There are no recommendations for new projects at this time.