

## Section 510

# City of Pembroke Pines Floodplain Annual Report Analysis for 2023/24 NFIP Community 120053

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### **Broward County Enhanced Local Mitigation Strategy (ELMS)**

The City of Pembroke Pines currently uses Broward County's LMS working group as the basis for its' floodplain management plan. The LMS is a comprehensive group of community stakeholders that have identified the natural and man-made hazards that threaten our community. This group has created mitigation projects that would minimize or eliminate those hazards. Each community in the group has a list of hazard mitigation projects they hope to implement to improve their community. Pembroke Pines has included drainage improvement projects in this multi-hazard plan to reduce flooding, protect life and property, and treat pollution that is inherent in storm water runoff.

### **Annual Progress Report for Community Rating System (CRS)**

Twice per year, the LMS group updates its list and submits the new lists to the Chairperson. It is expected that some projects may be funded through each community's budgets, while other projects may be funded through grants that are disclosed through the LMS group. The CRS also requires that an annual progress report be provided to the Commission and the press. This is the subject of this Report.

### **How Report was Prepared, How to Get a Copy, and How Report is Publicized**

This Progress Report was prepared by Karl Kennedy, P.E., City Engineer, for the City of Pembroke Pines. This Report will be released to the media through the City's Event and Media Coordinator, and will be presented to the City Commission. This Report will also be submitted to the Chairperson of the LMS Group for inclusion in the LMS plan, which is available to the public at:

[https://www.broward.org/Emergency/Documents/Bc\\_ELMS\\_FINALSeptember2017updated1.pdf](https://www.broward.org/Emergency/Documents/Bc_ELMS_FINALSeptember2017updated1.pdf)

The LMS quarterly meetings are announced to the public. The Report, which includes the area analyses, is also available to the public at the office at the above address and contact information. The public can obtain the original LMS plan at the above web address, or through the County's Office of Emergency Management.

### **Review of LMS List of Drainage Improvement Projects**

A review of the drainage improvement projects planned and completed for Pembroke Pines is listed at the end of this report. New projects are added as they are developed.

### **Repetitive Loss ( RL) Area Analysis**

A repetitive loss is defined by the Federal Emergency Management Agency (FEMA) as a property where two or more flood insurance claims of \$1,000.00 or more have been made within a ten-year period. The RL list for Pembroke Pines now stands at 12 properties. Preliminary data on each property has been collected, and an analysis of these properties was drafted. The City will continue to pursue inspecting these properties during the rainy season to see if chronic flooding occurs in these areas. A letter was sent to all RL areas disclosing the potential for flooding, making residents aware of funding opportunities, the benefits of flood insurance, and how they can protect themselves from major flooding in the future.

### **Discussion of Progress in Reaching Capital Improvement Objectives**

Funding continues to be limited in the City for stormwater capital improvements due to economic factors. Therefore, most funding for these types of projects is derived from grants.

### **Progress of 2023 Recommendations**

During 2024/24, the following progress has been made regarding recommendations from the 2023 progress report:

- The City was awarded a FEMA backed Hazard Mitigation Grant Program(HMGP) grant for \$1,417,590.90 with no matching requirement for the Pembroke Pines Seepage Management Stormwater Pump Station project. The project is for the installation of an internal, stormwater pump station in the western limits of the City of Pembroke Pines to re-channel seepage from Water Conservation Area 3B back into the Everglades, through the SFWMD S-9A pump station. The stormwater pump station would be located on the east side of US 27 in western Pembroke Pines. The pump station would pump seepage that migrates into the surface waters on the east side of US 27 back into the US 27 Canal (L-33 Canal), then north through the SFWMD S-9A pump station, located west of US 27 at Griffin Road. The City is teaming with the South Broward Drainage District (SBDD) to deliver this project to the residents. Preliminary design has been completed and a design consultant is anticipated to be hired in Q3 of 2024.
- The City was previously awarded a grant of \$200,000 from the Florida Department of Environmental Protection for the above mentioned Pembroke Pines Seepage Management Stormwater Pump Station project.
- Finding additional funding sources: The City is working to secure funds from the South Florida Water Management District (SFWMD), Florida Department of Emergency Management (FDEM), FEMA and State of Florida Earmarks for projects that would improve drainage conditions in the City.
- Inspect chronically flooded areas: The Floodplain Administrator and the Public Works crews continue to document flooded areas, and respond to complaints and continued use of the dedicated vector truck for storm drain cleaning.
- The City received an HMGP Grant for the Taft Street Swale improvements Palm Avenue west to North Flamingo Road project. The project design was completed however FEMA did not fund the construction portion of the project due to the final proposed work not meeting their mitigation goals.
- The City received an HMGP Grant for the Century Village – SBDD Basin S-3 and Basin S-2/S-7 Interconnect while partnering with South Broward Drainage District. Design has been completed and we anticipate receiving confirmation of construction funding from FEMA and are anticipating requesting permission to bid in May or June 2024.

## **Recommendations for 2024**

Recommendations that will be considered by the Public Services Department include:

- Finding additional funding sources to complete projects.
- Continue investigation of problem drainage areas throughout the City, to prioritize and implement future drainage improvements. Enlist assistance of South Broward Drainage District and perform joint ventures to improve drainage in the City.
- Look for funding for neighborhood improvement projects to improve drainage in areas with poor drainage and with planted swales or swales that have become convex in shape preventing conveyance of storm water.

## **List of Drainage Improvements Tracked Through the Local Mitigation Strategy**

The following areas have been identified as having flooding problems, and the stated improvements will reduce property damage and repetitive losses from future rain events. These projects also improve water quality of the stormwater runoff, which is a requirement of the County and federal permits.

1. Taft Street Swale Regrading – Hiatus to Flamingo (Hazard Mitigation Grant received - funding for construction not authorized)
2. Three Basin Interconnect at Century Village (Hazard Mitigation Grant received and design complete)
3. Taft St. and 85th Way Culvert Linings
4. Lakeside Key Storm Drainage System

List of specific problem sites/neighborhoods which are inspected and maintained more frequently than other parts of the drainage system:

1. Woodbridge
2. Pasadena Blvd
3. NW 113 Ave at Taft
4. Sunswept
5. Pines Village
6. Taft Street from Hiatus Road to Flamingo Road
7. Lakeside Key
8. Rainbow Lakes