

CITY OF CORAL GABLES

OFFICE OF THE CITY MANAGER

-MEMORANDUM-

TO: HONORABLE MAYOR AND MEMBERS OF THE CITY COMMISSION **DATE:** January 9, 2018

FROM: PETER J. IGLESIAS, P.E.
BUILDING OFFICIAL **SUBJECT:** FLOODPLAIN MANAGEMENT
PLAN PROGRESS REPORT

The purpose of this memo is to provide a progress report outlining the City's Flood Plain Management Plan, as required as part of the City's participation in the Local Mitigation Strategy (LMS) Working Group. Each year municipalities participating in the LMS identify projects in their jurisdiction that would make their community more resilient to the local natural hazards. Many of the projects proposed by the City of Coral Gables deal with increasing the City's ability to handle storm water runoff and thus decrease the City's vulnerability to flooding. As a participant in the Community Rating System (CRS) of the National Flood Insurance Program (NFIP), which is administered by the Insurance Services Office Inc.(ISO) and the Federal Emergency Management Agency (FEMA), the City of Coral Gables presently has a rating of 7 and its residents benefit from a 15% NFIP insurance premium discount. To maintain this rating, the City of Coral Gables implements activities to promote floodplain management. Beginning with the cycle year of 2007, one requirement is to annually generate a report on the progress of the projects included in the LMS. To receive credit for this report, it must be distributed to the Mayor, City Commissioners, and City Manager, released to the media, and made available to the public at City Hall with a notice of its availability on the City's website www.coralgables.com.

BACKGROUND

In the spring of 1998, the State of Florida Department of Community Affairs contracted with and provided funding to each of the counties within the State to develop a Local Mitigation Strategy (LMS). Miami-Dade County is a highly diverse community, Yet, because of Hurricane Andrew, we all have a profound appreciation for hazard mitigation and a willingness to make the "Strategy" work. Consequently, all of the municipalities in Miami-Dade County, including the City of Coral Gables, participated in the Local Mitigation Strategy (LMS) at one time or another and have formed, with many other organizations, the "LMS Working Group".

During the development of the LMS, each municipality designated a representative to the Working Group. Additionally, each of the major departments within the county government

assigned a representative to the Working Group to address the issues of the unincorporated portions of the County and of the County-owned and operated facilities that lie within the boundaries of the municipalities.

On August 25, 1998, the City of Coral Gables' City Commission, by Resolution 29575, authorized the City of Coral Gables to become part of this inter-local agreement and become part of the LMS Working Group and adopted the Miami-Dade County Local Mitigation Strategy as part of their floodplain management effort. The complete LMS, which is updated semi-annually on June 30th and December 31st for each year, is available to the public at the Miami-Dade Office of Emergency Management website at <http://www.miamidade.gov/fire/mitigation.asp>

LOCAL MITIGATION STRATEGY PROJECTS – 2017 SUMMARY

Project Title	Project Description	Hazard	Cost	Status
Historical City Hall Hurricane Shutters	Install permanent hurricane window screens to minimize future losses from high wind. Project includes shutters, windows and conservator.	Wind	500,000.00	Future Unfunded Project
City Hall Anex Hurricane Shutters	Install permanent hurricane window screens to minimize future losses from high wind. Structure hardening and windows.	Wind	45,000.00	Future Unfunded Project
Fire Station #3 Hurricane Shutters	Install permanent hurricane window screens to minimize future losses from high wind.	Wind	88,000.00	Project Complete
Acquisition of City Hall Emergency Generator	Acquisition of a power generator to provide emergency power to the City Hall to ensure the accessibility of computerized records in the event of storms, hurricanes and natural disasters.	Multiple	200,000.00	Future Unfunded Project

Acquisition of Coral Gables Public Works, Public Service and Automotive Department Facility Emergency Generator	Acquisition of a power generator to provide emergency power to the Public Works facility which houses the utility telemetry and communications systems and is critical to pre and post man-made or natural disaster emergency operations. Structure hardening windows and shutters.	Multiple	530,000.00	Project in Planning Stage
Acquisition of City Pump Station G Emergency Generator	Acquisition and installation of a power generator to provide emergency power to City Sanitary Sewer Pump Station G to prevent sewage overflows, that would create health hazards, in the event of storms, hurricanes and natural disasters.	Multiple	100,000.00	Future Unfunded Project
Elevating Sanitary Sewer Lift Stations Generator at Station D	Elevate existing sanitary sewer lift station generator in flood prone area to comply with requirements of MDC DERM and to ensure the operation of the sanitary sewer lift station in the event of inland flooding from storm surge and wind driven rain.	Sea Level Rise	100,000.00	Project in Planning Stage
Elevating Sanitary Sewer Lift Stations Generator at Station F	Elevate existing sanitary sewer lift station generator in flood prone area to comply with requirements of MDC DERM and to ensure the operation of the sanitary sewer lift station in the event of inland flooding from storm surge and wind driven rain.	Sea Level Rise	100,000.00	Project in Planning Stage

Metal Freestanding Traffic Safety Signs & Trailer	Major storms result in power outages and obstructing debris on the roadways. Portable traffic safety signs will provide the safety needed for traffic control. An open trailer to house and transport the portable signs is needed to transport the portable traffic safety signs.	Multiple	30,000.00	Future Unfunded Project
Acquire Portable Pumps & Generators	Trailer mounted portable pumps and accompanying generators are needed to remove floodwaters during and after major storms.	Multiple	63,298.00	Project Complete
Storm Water Outfalls	Rehabilitation of positive outfalls by cleaning and lining the system to prevent future blockage caused by build-up of bio-valve organisms critical to prevent flooding and health hazards	Flood/Storm Surge	500,000.00	Project in Planning Stage
Basin Inflow and Infiltration Upgrade	An inflow and infiltration (I&I) program has been developed to reduce extraneous rain and groundwater that enters the City's wastewater collection system. It is anticipated that by implementing this program, the occurrence of Sanitary Sewer Overflows, which have a negative impact on the environment and public health, will be reduced as well as capital, operating and maintenance costs.	Flood/Storm Surge	1,179,793.00	Project Complete
Fire Station 2 Mitigation	This Hazard Mitigation Project would provide for Hurricane Code Plus Apparatus Bay doors to Coral Gables Fire Station 2 (525 South Dixie Highway Coral Gables, Florida 33146.). This enhancement would provide for the continuous operation of this emergency	Other	280,000.00	Future Unfunded Project

	<p>management facility. Gables Fire Station 2 provides for sheltering of emergency response personnel; apart from fire fighters, during a hurricane activation. The current station was constructed in 1961 and the garage doors in our apparatus bay(s) need to be upgraded as they do not meet code nor provide for adequate protection of the structure. The current configuration has experienced a myriad of maintenance and reliability issues. The City has identified this project as a priority to maintaining continuity of operations. The requested enhancement is paramount to strengthening the City's emergency response capability. This project would provide for fire apparatus bay doors to Miami-Dade County Building Code "Plus" for a total of 8 doors at an estimated cost of 280,000 - (35,000/per door).</p>			
Pump Station Cocoplum 1 Emergency Generator	Update of the sanitary sewer pump station including installation of emergency generator required by County regulations	Flood/Storm Surge, Health, Power Failure, Sea Level Rise	100,884.00	50% complete

Basin Inflow and Infiltration Upgrade	An inflow and infiltration (I&I) program has been developed to reduce extraneous rain and groundwater that enters the City's wastewater collection system. It is anticipated that by implementing this program, the occurrence of Sanitary Sewer Overflows, which have a negative impact on the environment and public health, will be reduced as well as capital, operating and maintenance costs.	Flood/Storm Surge	1,200,000.00	Future Unfunded Project
Acquire Sewer By-Pass Pump	By-pass pump is needed to remove flood waters during and after major storms and sewer surcharges.	Other	100,000.00	Future Unfunded Project
San Pump Station's Electrical & Control Panel and or Generator	The City of Coral Gables acknowledges and understands its vulnerability to Sea Level Rise (SLR). As such, the City has identified adaptation strategies for SLR and its impacts on existing City infrastructure and other assets.	Other	490,000.00	Future Unfunded Project
SAN Pump Station's Electrical & Control Panel and or Generator.	The City of Coral Gables acknowledges and understands its vulnerability to Sea Level Rise (SLR). As such, the City has identified adaptation strategies for SLR and its impacts on existing City infrastructure and other assets.	Other	191,440.00	Future Unfunded Project

Install Solar Panels at Youth Center	Provide renewable, low-carbon energy at the Youth Center through installation of a solar photovoltaic (PV) array and battery backup. The Youth Center was analyzed as a potential location for installation of a solar PV array due to its 14,000 square foot available roof area. Since the Youth Center houses rescue recon staff during hurricanes, maintaining power at the facility is critical. It will provide power to roughly 15% or more of the building when the power is out. Costs are estimated at \$472,000, with 10% of total costs allocated to design work and the rest to construction.	Power Failure	472,000.00	Funding Secured
Fire Station #3 Hurricane Generator	Acquisition of a power generator to provide emergency power to the Fire Station #3 in the event of storms, hurricanes and natural disasters.	Power Failure	150,000.00	Future Unfunded Project
Merrick House Hurricane Shutters	Install permanent hurricane window screens to minimize future losses from high wind. Structure hardening and windows.	Wind	40,000.00	Future Unfunded Project
Passport Office Hurricane Shutters or Windows	Install permanent hurricane window screens to minimize future losses from high wind. Structure hardening and windows.	Wind	35,000.00	Future Unfunded Project
Miracle Theater Generator, Hurricane Shutters and Windows	Acquisition of a power generator to provide emergency power to the Miracle Theater in the event of storms, hurricanes and natural disasters.	Wind	168,000.00	Future Unfunded Project

Granada Pro Shop Hurricane Shutters or windows, hardening	Install permanent hurricane window screens to minimize future losses from high wind. Structure hardening and windows.	Wind	34,000.00	Future Unfunded Project
Coral Gables Country Club Hurricane Shutters or windows, hardening	Install permanent hurricane window screens to minimize future losses from high wind. Structure hardening and windows.	Wind	110,000.00	Future Unfunded Project
Venetian Pool Hurricane shutters and hardening	Install permanent hurricane window screens to minimize future losses from high wind. Structure hardening and windows.	Wind	38,000.00	Future Unfunded Project
Youth Center Hardening, windows/hurricane shutters	Install permanent hurricane window screens to minimize future losses from high wind. Structure hardening and windows.	Wind	447,000.00	Future Unfunded Project
292 Miracle Mile Hardening (former Supercuts)	Install permanent hurricane window screens to minimize future losses from high wind. Structure hardening and windows.	Wind	35,000.00	Future Unfunded Project
2506 Ponce de Leon (Historic) Shutters, Hardening , Conservator, roofing repairs/Replacement	Install permanent hurricane window screens to minimize future losses from high wind. Structure hardening and windows.	Wind	40,000.00	Future Unfunded Project
Salvadore Tennis Center Windows and Hardening	Install permanent hurricane window screens to minimize future losses from high wind. Structure hardening and windows.	Wind	25,000.00	Future Unfunded Project

ADDITIONAL FLOODPLAIN MANAGEMENT ACTIVITIES

In addition to the above mitigation projects, the City of Coral Gables implements the following activities to maintain its CRS rating:

1. Maintains floodplain and emergency management brochures at the Building Division waiting area of City Hall.
2. Maintains the community outreach requirements by mailing the Flood Management Brochure to the most vulnerable households in Coral Gables.
3. Maintains Elevation certificates on all new and substantially improved buildings in Special Flood Hazard Area (SFHA).
4. Maintains copies of Flood Insurance Rate Maps and ensures that they are up to date.
5. Provides Flood Insurance Rate Map information to inquirers and online.
6. Ensures that the public library maintains flood protection materials.
7. Continues to enforce all building, zoning, municipal and County code ordinances that deal with floodplain management.
8. Continues to implement our drainage system maintenance program.
9. Continues to implement the sections of the City's Capital Improvement Program which pertain to drainage system maintenance.
10. Continues to inspect and maintains records of the City's storm water drainage system inspections..
11. Enforces the ordinances pertaining to dumping in our canals and storm water drainage systems.
12. Continues our outreach program explaining the dumping regulations to the public.

RECOMMENDATIONS

1. The City of Coral Gables should continue its participation in the Community Rating System of the NFIP and implement the programs necessary to maintain our present status.
2. The City of Coral Gables should continue its participation in the Miami-Dade Local Mitigation Strategy.

cc: Cathy Swanson-Rivenbark, City Manager
Manuel Lopez, Deputy Building Official
Suramy Cabrera, PE, Development Services Director
Jorge Acevedo, Utility Director
Maria Rosa Higgins-Fallon, Public Affairs Manager