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**MEMORANDUM**

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**TO:** JOSEPH F. LO BELLO, TOWN MANAGER  
**FROM:** ANDREA DOBBINS, PROJECT COORDINATOR/RISK MANAGER   
**SUBJECT:** ANNUAL PROGRESS REPORT; FLOODPLAIN MANAGEMENT PLAN  
**DATE:** 04/13/2016

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**BACKGROUND**

The Community Rating System (CRS) Program requires a yearly progress report pertaining to our floodplain management plan. The Town adopted our Flood Mitigation Plan in January 2015. This plan, which was approved by FEMA in April 2015 was compiled by stakeholders in our community and town staff. It was written by a consultant hired by the Town to assist us with this technical endeavor. The mitigation plan is designed specifically for Juno Beach to be a more disaster resistant community. This plan is a tool that aids in identifying specific flood hazards and an action plan for the Town to follow as funding becomes available. This plan also provides eligibility for the Town to receive pre-disaster and post-disaster federal funding for mitigation purposes.

**DISCUSSION**

This progress report addresses our Flood Mitigation Plan and gives a detailed report to the Community Rating System for the 2016 recertification process. (A copy of the report is attached.) Recertification is necessary to maintain our current rating of "5" which provides a 25% discount on flood insurance to our residents that live in the Special Flood Hazard Area (SFHA) and a 10% discount those outside of the SFHA.

**RECOMMENDATIONS:**

Staff recommends approving the "Community Rating System, 2016 Floodplain Management Plan Progress Report" as part of the consent agenda.



**COMMUNITY RATING SYSTEM  
FLOODPLAIN MANAGEMENT PLAN PROGRESS REPORT  
April 13, 2016**

**Juno Beach, Florida 120208 NFIP NUMBER**

**1. Name of the CRS Floodplain Management Plan (LMS or other):**

Flood Mitigation Plan, Juno Beach

**2. Date adopted:**

January 28, 2015

**3. Location where copies are available for review:**

Juno Beach Town Center  
340 Ocean Drive, Juno Beach, FL 33408

**4. Summarize any floods that occurred during the year (if any):**

The Town has not experienced any floods this year.

**5. What impact did the floods have on the repetitive loss area:**

There has been no impact since flooding has not occurred on any of the repetitive loss properties. Juno Beach does not have any identified repetitive loss areas.

**6. On a separate sheet (or use the back), list each element of the original plan and note how much was accomplished during the previous year: (this is an on-going list of projects)**

- In 2015, Juno Beach submitted an application to the Palm Beach County Local Mitigation Strategy (LMS) for consideration of their Prioritized Project List. Our drainage project located at Juno Ocean Walk, was reviewed and ranked #6 (out of 69 countywide projects) and placed on the LMS PPL in December 2015. This was part of Goal #2, objective 2.2 in our floodplain mitigation plan as we work towards this mitigation project. This mitigation activity is part of our Action Plan as we pursue grant funding for this drainage project.
- The town staff has implemented and/or continued with the following flood mitigation activities according to our Flood Mitigation Plan:
  - We continue to look for funding opportunities for the two unfunded capital improvement projects on Zenith Lane & Juno Ocean Walk. Our staff is working to get the Juno Ocean Walk drainage project on the LMS approved project list.

- This year has been instrumental in promoting flood insurance since almost 1,000 property owners will be impacted by the new FEMA flood maps. Staff has sent letters to all these property owners in addition to speaking to them on the phone and in person educating them about how this will impact their flood insurance coverage.
  - Our staff has contacted FDOT about the flooding/drainage concerns on US Hwy 1 when we have a heavy down pour. We are monitoring this area.
- The Town has been working to provide needed maintenance to the Universe Boulevard storm water drainage system. The storm water drainage system servicing the properties along Universe Boulevard consists of a series of inlets and underground pipes beneath that roadway. The storm water collected in the system flows through 35 year old corrugated metal pipe which varies in size from 18" to 60" in diameter. The flow is conveyed along Ellison Wilson Road and discharges to the Intracoastal Waterway. There are approximately 5,000 feet of pipe in this system. In early 2013 a company was contracted to inspect, determine infrastructure integrity and provide repairs. As a fair and equitable means to have abutters maintain the infrastructure into which they discharge, the Juno Beach Town Council agreed that Universe Boulevard abutters (stakeholders) should share the costs for improvements to that drainage system. Once the pipe was inspected it was then jet cleaned along with all 6 lateral connections. Once cleaned, cameras were used to look for damage, potential backup locations and root infiltration. The pipe was tested by systematically plugging sections and pumping water into these areas. The outcome of this testing resulted in minor repair work to two open joints on two of the intake structures. The overall condition of this storm water drainage pipe was determined to be in good working condition and no further work is required. This project was completed January 2014.
- Staff started working on our Floodplain Management & Mitigation Plan in January 2013. A task force was assembled including residents of the community, business owners and other stake holders. Over the course of a year we formulated and developed a comprehensive plan with goals and objectives specifically for Juno Beach. The completed plan is due to complete early summer 2014.
- The Juno Beach town council approved staff's request to apply for a Flood Mitigation Assistance (FMA) grant to fund a new Floodplain Management Plan in 4Q/2011. The town staff submitted the FMA application to the State of Florida and we were awarded the funding and the grant agreement was executed August 8, 2012. This Floodplain Management Plan will support the Palm Beach County Local Mitigation Strategy (LMS) that the town currently uses. The new plan is being customized for the town and will identify flood hazards and specific flood projects to better protect residents and insurable property from the hazard of flooding.

- On March 23, 2011 the Juno Beach Town Council voted to move forward with one of the recommended storm water management projects as suggested by the town's engineer. The project will replace the Pelican Lake outfall pipe that is in desperate need of repair. This project is approved for funding and was completed in May, 2011.
- On July 22, 2009, the Town's engineering firm submitted a town-wide storm water management plan that addressed three specific projects. In addition to the projects our engineer made a recommendation to restore some of the sections of swale on Ocean Drive. Some of the swales in town have not been maintained due to tree plantings and steep slopes from adjacent yards. The town has restored a number of these recommended swale sections which increases surface storage and reduces temporary ponding in the roadway allowing for better percolation to occur. One of the three recommended drainage projects is in the floodplain. This project calls for the replacement of the Pelican Lake outfall pipe due to its deteriorated condition. This project was scheduled for 3Q-4Q/2010 with funding from the Town's Capital Improvement Budget 09/10 due to budget constraints this project was delayed.
- Beach re-nourishment was supposed to take place November 2009 through out Juno Beach. This project was delayed due to permitting issues which have been resolved. Construction bids for this work went out March, 2009. Beach re-nourishment commenced December 2009 and was completed April 2010. This project added approximately one million cubic yards of new sand onto approximately 2.4 miles of eroded beach and dunes within the Towns of Juno Beach and Jupiter. The re-nourishment project also included the installation of over 50,000 sea oat plants to assist in preventing further erosion of the beach and dune.
- Because the town's coastline is particularly susceptible to serious beach erosion, it maintains an aggressive beach restoration and re-nourishment program. This program is monitored by the county through the town.
- The town has an impressive class 5 rating (one of the highest in the County), which provides residents with a 25% reduction on their flood insurance premiums. Residents receive newsletters containing hurricane, flooding and other disaster preparedness information. The town hosts resident meetings as part of its CRS program.
- In 2006, the town upgraded the emergency generator to include the administrative offices as well as the Police Department. The town has also received approval from FEMA to continue to harden the municipal complex and complete the installation of storm shutters and impact glass. The hardening of the town center and police department was completed August 1, 2008.
- In 2004, the town amended their local codes to bring them current with the change to the Unified Florida Building Code. The municipal complex is fitted with storm shutters and impact glass, has an emergency generator and utilizes a reverse 9-1-1 emergency alert system.

**7. Were any of the objectives not reached or is implementation behind schedule? If so, state why:**

No

**8. Should new projects be started or should any of the recommendations or objectives be revised:**

The Town of Juno Beach submitted the drainage mitigation project for Juno Ocean Walk and was approved and ranked #6 on the LMS Prioritized Project List (PPL). This prioritized list will make this project available for grant funding should money become available.

**9. Progress Report discussed and/or made available at a public meeting (attach copy of the minutes as documentation)**

The progress report was presented to the town council at the April 27, 2016 meeting and copies of this report were made available to the public and the media.

**For more information contact:** Andrea Dobbins, Project Coordinator/Risk Manager  
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