

**INDIAN RIVER COUNTY, FLORIDA  
MEMORANDUM**

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**TO:** Jason E. Brown, County Administrator

**THROUGH:** Richard B. Szyrka, P.E., Public Works Director 

**FROM:** James W. Ennis, P.E., PMP, County Engineer

**SUBJECT:** Roadway Network Safety Proposal: Installation of Cul-De-Sac on 12th Avenue and Removal of Connection to 1st Street SW

**DATE:** January 11th, 2018

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**DESCRIPTION AND CONDITIONS**

Over the past 5-years the Public Works Department has noted that 6 incidents have occurred where vehicles have left the roadway and entered the canal that is parallel to 12th Avenue (unpaved) between 1st St. SW (paved) and 2<sup>nd</sup> St.(paved). Departures from the roadway at this location are particularly dangerous as this canal directly connects to the South Relief Canal and is in excess of 15 feet deep. Additionally, the canal slopes at this location exceed a 1 to 1 ratio which is considered non-recoverable for passenger vehicles.

After a review of the roadway geometry, available right-of-way, and accident report details at the intersection of 12th Avenue and 1st St. SW it was determined that the most cost-effective solution to improve roadway safety is to close 1<sup>st</sup> St. SW at 13<sup>th</sup> Avenue and install a cul-de-sac at the southern end of 12th Ave. As a result of this change traffic previously traveling to and from 1st St. SW will have the opportunity to use 13th through 18th Avenues resulting in negligible impacts in distance travelled to and from their destinations. This should also result in a reduction in traffic volumes, and subsequently maintenance grading requirements, along the unpaved section of 12th Avenue. The estimated cost for this project is \$20,000.00.

**FUNDING**

Funding is available for the necessary improvements to implement this road closure in Miscellaneous Intersection Improvements-Account No. 31521441-066510.

**RECOMMENDATION**

Staff recommends that the Board of County Commissioners approve the closure of 1st St. SW at 13th Avenue and construct a cul-de-sac at the southern terminus of 12th Avenue

**ATTACHMENT**

Proposed Roadway Re-alignment and Cul-De-Sac Plan Sheet

**APPROVED AGENDA ITEM FOR JANUARY 23, 2018**