



THE CITY OF KEY WEST

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EXECUTIVE SUMMARY

Date: October 16, 2018
To: Jim Scholl, City Manager
From: John Paul Castro, Director of Utilities
Cc: Greg Veliz, Assistant City Manager

Subject:

Approve Task Order 2-19 STM from CH2M Hill Engineers, Inc. for the general engineering services to design Patricia and Ashby Neighborhood Piping project to alleviate flooding issues during heavy rain periods.

Action Statement

This Resolution would approve task order 2-19 STM from CH2M Hill Engineers, Inc. in the amount of \$254,973.00 pursuant to resolution number 17-207 for design, permitting, bid and construction phase services for the Patricia and Ashby neighborhood piping project.

Background

In 2012 CH2M Hill completed a storm water master plan for the City of Key West, which identified and ranked projects that would help to both reduce storm flood stage and reduce that flood stage more quickly through storm water collection, discharge into gravity wells, pump assisted wells, and emergency outfalls. This project location is within the highest ranked sub basin from the master plan, shown as Basin 130. It is a very low-lying area and is generally bound by Flagler Avenue on the north, Bertha Street on the east, Stephens Avenue on the west, and Atlantic Boulevard to the south. The City has one pump assisted recharge well located in this area, plus many gravity recharge wells. Despite this infrastructure, the area near Patricia and Ashby still has the highest flooding severity in the City.

Purpose and Justification

The Utilities Department is requesting that the consultant provide engineering design services, permitting, bid phase services, and construction phase services

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for storm water piping and inlets at the Patricia and Ashby Streets neighborhood to improve drainage and reduce the duration of flooding.

This project is considered important to the City, and is recommended because it will improve the overall drainage of the area and will reduce the duration of flooding. When the City installed the pump-assisted injection well, only the intersection at Patricia and Ashby had new inlets and pipes installed. This project will better connect other areas of the drainage basin by adding approximately 2,400 linear feet of 18 inch storm drain pipe, 24 inlets at eight intersections, and 320 linear feet of exfiltration trench along George Street. This will connect most of the neighborhood intersections surrounding the pump station in the pump assisted well.

The design included the analysis of adding a second well to the pump station. If necessary the design and construction of a second well for the pump station will be included.

It should also be noted that this will tie in the neighborhood to the emergency outfall. When a major rain event exceeds pump station and gravity drain capacity the City has the ability to open the pump assisted outfall which will then drain a much larger area of the neighborhood.

The task order is issued pursuant to the approved rates within the CH2M Hill Engineers, Inc. general engineering services agreement which is a 3 year contract awarded by resolution 17-207.

Financial

Funding will come from Utilities/Stormwater/CIP account 402-3803-538-6500, project ST38031901. Staff has reviewed the hourly cost breakdown and believes the rate mixture is properly balanced and match the hourly rates set forth within the task order compensation chart. \$1,500,000.00 was budgeted for the task over the FY19 and FY20 budget cycles.

Recommendation

Approve task order no. 2-19 SWR from CH2M Hill Engineers, Inc. for the design, permitting, bid phase and construction phase services for Patricia and Ashby Neighborhood Storm Water Piping in the amount of \$254,973.00.