



THE CITY OF KEY WEST

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MEMORANDUM

EXECUTIVE SUMMARY

TO: Jim Scholl, City Manager
E. David Fernandez, Asst. City Manager - Operations

FROM: Jay Gewin, Utilities Manager

DATE: April 18, 2012

RE: **Approval of a Task Order 4-12-SWR from CH2M Hill in the Amount of \$115,754 for Engineering Services for the Design, Permitting, and Bid Phase Services for the Fleming Key Bridge Pipe Support and Piling Repairs.**

ACTION STATEMENT:

This resolution will approve task order 4-12-SWR from CH2M Hill in the amount of \$115,754 for engineering services for the design, permitting and bid phase services for the Fleming Key Bridge pipe support and piling repairs.

The agreement will be executed pursuant to F.S. 287.055 (CCNA), City Code 2-841, and the City's contract with CH2M Hill approved by Resolution # 07-331 and extended and amended through Resolution 10-287.

BACKGROUND:

The City of Key West maintains a bridge that carries our inflow sewer pipeline to the Wastewater Treatment Plant (WWTP) on Fleming Key. It runs parallel alongside the US Navy vehicle bridge over the Fleming Key cut with connects Garrison Bight and the Key West Harbor shipping channel.

All wastewater that enters our WWTP travels over the bridge through this pipeline. It is therefore critical that the City maintains our pipeline bridge to sustain operation of our wastewater collection system. The bridge gets weakened over time by a very strong current along with the occasional boats that have hit the pilings on occasion over the years.

Additionally, if the City were to ever initiate a wastewater reuse program, we would have to ensure the sewer bridge would have to be strong enough to carry an additional 18 inch pipeline.

Key to the Caribbean – Average yearly temperature 77° F.



The City of Key West Sewer Bridge is the two pilings and concrete support for the two pipes on the left of the picture. It sits immediately adjacent to the Navy's roadway bridge to Fleming Key

PURPOSE AND JUSTIFICATION

In order to proceed with the necessary repairs to the sewer pipeline bridge, and to make sure the City can use the structure for possible wastewater re-use in the future, it is first necessary to analyze the structure both above and below the waterline. This analysis will be the basis of the scope of work for the generation of bid documents for the bridge repairs that will be performed under this task order, which will also include a cost estimate for the project. Under this task order, CH2M Hill will apply for all required state and federal permits and will perform bid phase services.

The City or OMI does not have the staff available with the technical expertise required to perform this work independently. Staff has reviewed this submittal and found it consistent with the hourly rates established in the City's contract extension with CH2M Hill.

Further, Staff does not feel that the hours that will be billed under this task order are disproportionately allotted to higher-wage management staff. In fact, the Principal Project Manager and Senior Technologist combined account for approximately 16.8% of the hours allotted in this task order.

The task order includes four CH2M Hill staff trips to Key West over the course of the project. City staff feels that this number of trips, and the associated costs, are reasonable to assure that the consultant staff has sufficient oversight for the completion of the task order.

OPTIONS / ADVANTAGES / DISADVANTAGES:

1. The City Commission can award the task order to CH2M Hill and proceed with the Fleming Key Bridge repair project. This will provide the City with a current analysis of the condition of the bridge, and will provide the City with the bid documents and permitting required to complete the repairs. Ensuring the functionality of the sewer pipe bridge is a critical link to maintaining operation of the City's sewer system.
2. The City Commission can decline the task order from CH2M Hill. This option is not recommended by Staff, as the City will not be able to proceed with repairs without an analysis of the bridge's current condition. If the bridge were to enter a state of disrepair or collapse, the City would not be able to operate its WWTP or sewer collection system, which would result in an immediate Citywide emergency.

FINANCIAL IMPACT:

The Fleming Key Bridge repair Project was included in the FY 2012 sewer utility budget in the amount of \$370,000. This was under the assumption that design and construction would start this year. We have budgeted a total of \$980,000 in the sewer capital improvement plan, and we will revise our estimate once the engineering analysis is complete.

The project cost is budgeted in expense account 401-3503-535-65-00/SE1002.

RECOMMENDATION:

Staff recommends that the City Commission select option 1, approving task order 4-12-SWR from CH2M Hill in the amount of \$115,754 for the engineering services for the analysis, design, permitting and bid phase services for the Fleming Key Bridge pipe support and piling repairs.