



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: December 30, 2011

RE: **Approval of Task Order # 12-02 from Perez Engineering and Development in the Amount of \$191,000 for Engineering Services for the Design of Stormwater Gravity Wells for the East Front Street Drainage Project.**

ACTION STATEMENT:

This resolution will approve Task Order # 12-02 from Perez Engineering and Development in the amount of \$191,000 for engineering services for the design of stormwater gravity wells for the East Front Street Drainage Project. FEMA is funding 75% of the design costs of this project.

The agreement will be executed pursuant to F.S. 287.055 (CCNA), City Code 2-841, and the City's contract with Perez Engineering approved by Resolution # 07-332 and extended and amended through Resolution 10-294.

BACKGROUND:

The Front St. area is historically troubled with flooding after severe rains. Stormwater flows downhill all the way from Olivia St. towards this basin, and high tides can make drainage even more difficult. The City's two pump-assisted wells at the end of Simonton St. can struggle to keep up with the inundation during severe rain events.

This project seeks to design stormwater gravity wells or other alternatives that will try to capture much of the rainwater flowing downhill before it can reach the low-lying busy Front St. area.

The City is finalizing a Stormwater Master Plan to address areas of local flooding, standing water (puddling), and flood control measures. This

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

document will recommend a series of capital improvements based on stormwater modeling using new technology available to the City. The Master Plan has identified the best locations where gravity wells and other stormwater improvements can be built to maximize effectiveness.

In addition to decreasing the amount of stormwater flowing into the East Front St basin to help alleviate flooding, anticipated environmental results include reducing potential health risks to beach bathers by eliminating or reducing stormwater discharges to nearshore waters which may carry bacterial contamination. The project is also expected to aid in the protection of the aquatic resources in the nearshore Outstanding Florida Waters by eliminating or reducing stormwater discharges that contain nutrients, metals, hydro-carbons, and other stormwater pollutants.

In recognition of the repeated flooding that occurs on East Front St., FEMA has awarded the City a grant that will fund 75% of the design costs for stormwater infrastructure to help address the problem. The City Commission approved this grant via Resolution 11-123 on May 3, 2011. Design work needs to be completed by the last week in March. The federal share of the grant is \$143,273, with the City's share at \$47,758 (total grant - \$191,031).

Once the design work is finished, the City will submit these documents along with a benefit/cost analysis and other deliverables to FEMA, who will review our submittal for possible grant funding for construction.

PURPOSE AND JUSTIFICATION

With the grant funding secured, and the recommendations from the Stormwater Master Plan complete, City Staff has requested Perez Engineering prepare this task order to design stormwater gravity wells to benefit the East Front St. Basin. Perez will also create a benefit/cost analysis and will prepare the materials to be shipped to FEMA.

This task order includes the following components pertaining to the design of 8-10 gravity injection wells and associated ADA and sidewalk improvements:

The scope of work within the task order includes the following:

- Site evaluation, data collection, and surveying
- Design of Stormwater Wells
- FDEP permitting services
- Preparation of bid documents
- Preparation of benefit/cost analysis and other deliverables for FEMA grant

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

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 of the firm

only accounts for approximately 13.4% of the hours allotted in this task order.

OPTIONS / ADVANTAGES / DISADVANTAGES:

1. The City Commission can award the task order to Perez Engineering and proceed with the design of these gravity wells on a timely basis that will allow us to meet grant deadlines. The consultant has successful experience working with the City on other projects of a similar technical nature, and has very capable staff to ensure successful design. This option is recommended by City Staff, as the neither City nor OMI have the staff available with the ability to perform the scope of work included in this task order. It will also allow the City to proceed with design of the project, which will have significant benefits to a downtown high-traffic area that suffers from repeated flooding during heavy rains.
2. The City Commission can decline the task order from Perez Engineering. This option is not recommended by Staff, as the City will be unable to proceed with the East Front Street Stormwater project without properly engineered drawings and bid documents. We would lose grant funding as the 75% of project costs funded by FEMA towards the design of the project would be lost.

FINANCIAL IMPACT:

Costs for this task order total \$191,000 and are budgeted in account # 402-3802-538-65/ST1201.

The City will be reimbursed 75% of these costs from FEMA in the amount of \$143,250 as a part of Phase I design funding. The remaining \$47,750 will be funded through the City's stormwater fund. The cost of this task order is within the budget that the City has established for the design portion of this project.

RECOMMENDATION:

Staff recommends that the City Commission select option 1, approving task order 12-02 from Perez Engineering and Development in the amount of \$191,000 for the design of stormwater gravity wells for the East Front St. Drainage Project.