



THE CITY OF KEY WEST

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MEMORANDUM

EXECUTIVE SUMMARY

TO: Bogdan Vitas, City Manager
E. David Fernandez, Asst. City Manager - Operations

FROM: Jay Gewin, Utilities Manager

DATE: September 16, 2013

RE: **Approval of a Task Order 02-2013 from Perez Engineering and Development in the Amount of \$66,370 for Caroline St. Stormwater Outfall Improvements.**

ACTION STATEMENT:

This resolution will approve task order 02-2013 from Perez Engineering and Development in the amount of \$66,370 for improvements to the stormwater outfalls that serve the Caroline St. drainage basin.

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 # 12-280.

BACKGROUND:

The Caroline St. Stormwater Basin sits at low elevation and frequently floods during heavy rains. The situation is made worse during occasions when we are at high tide.

The existing drainage system in this area consists of multiple outfalls tied to storm drains in the area. These outfalls are fitted with older tide valves that do not function very effectively. These outfalls should be upsized in order to increase their capacity so that they can handle increased stormwater flow. Additionally, there are improved tide valves that are available that would function better than those currently in place.

With traffic, sidewalk, and other improvements planned for construction in the Caroline St. area, it would make the most sense to improve the stormwater concerns at the same time. If the outfalls are not improved, the Caroline St. area will continue to flood during heavy rains despite the new construction project planned.

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

PURPOSE AND JUSTIFICATION

The City's Stormwater Master Plan included an addendum that specifically focused on the Caroline Street area. Improvements to the outfalls and tide valves were some of the key recommendations.

Perez Engineering will conduct the following tasks in an attempt to improve the situation

- *Data Collection/Survey*– Perez Engineering will provide a detailed survey and analysis of the existing conditions of the basin and its drainage.
- *Preliminary Design* – Perez Engineering will prepare preliminary design drawings that will include the drainage improvements, tide valves, and A.D.A. sidewalks (if needed), written specifications to accompany the drawings, a detailed construction cost estimate, and an anticipated construction schedule timeline.
- *Final Design* - The contractor will incorporate the City's recommendations into final drawings and specifications suitable for bid. Perez Engineering will also apply for the required Environmental Resource Permit from the South Florida Water Management District.

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 Perez Engineering and Development.

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 only accounts for approximately 15% of the hours allotted in this task order. Perez Engineering is a local firm, therefore there will be no travel expenses required within their task order.

OPTIONS / ADVANTAGES / DISADVANTAGES:

1. Approve the task order to Perez Engineering and proceed with design improvements to the Caroline Street area. This will enable us to move forward with a plan that would lessen the time that standing water exists on streets of the Caroline Street basin after heavy rains.
2. The City Commission can decline the task order from Perez Engineering. This option is not recommended by City Staff, as it we cannot improve drainage in the Caroline St. area without upsizing the outfalls and improving the tide valves. The area will continue to flood after heavy rains.

FINANCIAL IMPACT:

The City has budgeted \$70,000 for the design of this project. However, construction funding has not been identified at this time. Funds would be spent through budget line item 402-3802-538-65.

RECOMMENDATION:

Staff recommends the award of this task order to Perez Engineering and Development so that we can begin plans to improve the drainage for the Caroline Street corridor.