



THE CITY OF KEY WEST

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MEMORANDUM

EXECUTIVE SUMMARY

TO: Jim Scholl, City Manager

Cc: David Fernandez, Asst. City Manager - Operations

FROM: Jay Gewin, Utilities Manager

DATE: May 16, 2011

SUBJECT: **Approval of a Task Order with Charley Toppino and Sons for Rehabilitation of 17 Stormwater Drainage Wells in the Amount of \$64,521.60.**

ACTION STATEMENT:

This request is to approve a task order with Charley Toppino and Sons for the rehabilitation of 17 stormwater drainage wells, including three pump-assisted wells, in the amount of \$64,521.60

The City Commission approved a 3-year stormwater gravity well maintenance contract with Charley Toppino and Sons via Resolution # 10-351.

BACKGROUND:

The City of Key West currently owns four pump-assisted stormwater drainage well systems located at the intersection of Patricia St. & Ashby St., the North end of Simonton St. (2 wells), and the South end of White St. This City also owns 121 stormwater gravity wells with one more that has been designed for future construction.

Under peak flow conditions, excess silt, sand, trash, and other debris can carry through the pollution control devices of stormwater wells, thereby reducing their efficiency. Regular maintenance/cleaning work on both the pollution control devices and well structures are necessary to ensure both the pump-assist and gravity wells operate as intended.

The level of maintenance to be performed in this task order requires a certified well driller with a drill rig to perform the work. OMI regularly cleans the baffle boxes and piping with a vactor truck, but is not a certified well driller and does not have the vehicle (a new drill rig would cost \$600,000-\$700,000) and

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

equipment to perform the well cleaning that would be performed under this agreement. OMI is therefore unable to provide the well-cleaning that would be proposed under this contract.

Stormwater gravity wells require well cleaning every 5-7 years, depending on various conditions (hurricanes, location, etc.). Stormwater pump-assist wells require maintenance every 2-4 years based on similar conditions. The difference in years is because the former functions on a gravity system, while the pump-assist wells are situated in areas more prone to flooding and the water is being accelerated through the pump system.

The City went out for bid and has entered into a 3-year contract with two different companies for stormwater well maintenance. Charley Toppino and Sons is a local firm and is also the bidder that had the lowest unit prices for the work. Therefore the City will enter into a task order with Toppino's for the cleaning of 17 stormwater wells.

PURPOSE & JUSTIFICATION:

According to Best Management Practices, the City is obligated to clean and maintain our stormwater wells on a regular basis, as discussed above. A consent order with the State of Florida DEP also establishes the standards that we must maintain the wells.

OMI regularly monitors the sediment level within our stormwater wells. Any gravity well that loses more than 30% of its original open hole depth will be rehabilitated according to the City's approved well evaluation plan, plan supplement, and rehabilitation specifications. In addition, pump assisted wells will be monitored on a monthly basis for wellhead pressure and amperage draw. When amperage exceeds 85 amps or wellhead pressure exceeds 8 pounds per square inch, the well will be rehabilitated. The preferred well rehabilitation technique is airlift development.

Under these criteria, there are seventeen wells (3 pump-assisted, 14 gravity) that are in need of rehabilitation:

Stormwater Pump Assist Wells-

- 1) and 2) Simonton/Front St. (2 wells at this location)
- 3) Patricia/Ashby St.

5) Southard/Margaret St.

6) Amelia/Whitehead St.

7) Caroline/Simonton St.

8) Southard/White St.

9) Angela/White St.

Stormwater Gravity Wells -

1) Caroline/Margaret St.

2) 1600 Josephine St.

3) Atlantic/Ashby St.

4) Donald/19th St.

10) Grinnell/Johnson St.

11) Johnson/Whalton St.

12) Blanche/George St.

13) Windsor/Olivia St.

14) Patricia/George St.

OPTIONS:

1. Approval of this task order with Charley Toppino and Sons will help the City to maintain our stormwater gravity wells that are in need of maintenance. These wells will operate at an improved level during severe rain events, and the City will remain in compliance with its consent order with FDEP.

2. The City could decline entering into this task order. This option is not recommended for several reasons. A consent order with the State of Florida requires us to maintain our stormwater infrastructure. Charley Toppino and Sons has the lowest unit prices of the two firms the City has under contract. The City also wishes to have its entire stormwater infrastructure at peak operating level prior to rainy season.

FINANCIAL IMPACT:

This \$64,521.60 task order is within the annual budgeted amount for this work. It will be funded from budget line item 402-3802-538-46

RECOMMENDATION:

The staff recommends option # 1, the approval of the task order with Charley Toppino and Sons for the maintenance of 17 stormwater drainage wells.