



THE CITY OF KEY WEST

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EXECUTIVE SUMMARY

TO: Greg Veliz, City Manager
Patti McLauchlin, Asst. City Manager

FROM: John Paul Castro, Utilities Director

DATE: June 1, 2020

SUBJECT: Approving a Task Order from CH2M Engineers, Inc. for Phase I of the Stormwater Masterplan Update

Action Statement:

This is a request to approve a task order from CH2M Engineers, Inc. pursuant to general engineering contract resolution 17-207 for first phase of updating the 2012 Stormwater Masterplan in the amount of \$77,365.82

Background:

In 2012 the City tasked CH2M Engineers to create a stormwater masterplan. The plan assessed the elevations of the city using lidar. The plan identified problem areas and created a roadmap of projects to alleviate flooding in order of importance and relative impact per construction cost.

Since 2012 the City has installed nearly \$27 million dollars' worth of infrastructure. Another \$10 million will go into the ground in the next 2 years budget cycles.

Purpose and Justification:

Due to the amount of infrastructure now installed it is pertinent to update the masterplan for future use. The new projects will need to be taken off the plan but more importantly in phase II of the update the results of those successes can be run into the storm model to more accurately predict flooding.

With the issue of sea level rise increasing and elevation datums changing we cannot design new infrastructure projects without considering the level of future tides. Stormwater systems that work off head pressures will be more and more affected as the ground water elevation increases. Pump station capacities, pump requirements, and above ground utilities will all be affected by future sea level rise.

Phase II of the update planned for FY21 will run the newest flood models with

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

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integration of new datums and the newest flood maps. This will ensure proper planning and design for future projects.

The contract rates match the master agreement values and city staff believes the level of effort for the task is fair and reasonable.

Financial Impact:

The task order will be funded from stormwater/general admin/professional services account 402-3801-538-3100 which was budgeted at \$80,000.00 Phase I includes task A, B, and E total \$77,365.82

Recommendation:

Staff recommends approving the task order from CH2M Engineers, Inc. for stormwater masterplan update, Phase I, pursuant to general engineering services resolution 17-207 in the amount of \$77,365.82