



TO: Honorable Mayor & Members
Fort Lauderdale City Commission

FROM: Lee Feldman, City Manager

DATE: November 20, 2012

TITLE: Motion to approve and execute Task Order No. 13, with CDM Smith, Inc., in the amount of \$18,280, for the Progresso, Durrs and Dorsey - Riverbend Neighborhoods Stormwater System Improvements Phase I – Preliminary Data Investigations Study – P11843

Recommendation

It is recommended that the City Commission approve Task Order No. 13, Phase I, with CDM Smith, Inc., in the amount of \$18,280, for the Progresso, Durrs and Dorsey-Riverbend Neighborhoods Stormwater System Improvements Phase I – Preliminary Data Investigations Study – P11843.

Background

The proposed task order provides for preliminary engineering services required to assist the City on the evaluation of alternatives and implementation schedule of stormwater management systems for the Progresso, Durrs, and Dorsey-Riverbend neighborhoods.

The 2009 Stormwater Master Plan (SWMP) developed by CDM Smith, Inc, identified four (4) critical flooding areas for the stormwater system based on the severity of flooding for:

- 5-year, 24 hr (passable roads)
- 10-year 24 hr (passable major arterial roads)
- 100-year, 72 hr (no flooded buildings) storm events,
- Complaints received by the City.

The Progresso neighborhood, which covers approximately 315 acres, was one of the areas identified and selected for further evaluation through the use of a hydrogeological model, and four different alternatives were evaluated: 1) maintenance, 2) exfiltration trenches, 3) recharge wells, and 4) storage. None of the alternatives have been implemented by the City at this time.

Additionally, in October 2011, a severe flooding event of approximately 15-inches of rain in a 72-hr period occurred in the City, and the Progresso, Durrs and Dorsey-Riverbend neighborhoods were affected. Homes and buildings had water intrusion, with numerous street closures.

The Progresso neighborhood covers approximately 315 acres (0.50 square miles). The

adjacent Durrs and Dorsey-Riverbend neighborhoods, which are located just west of the Progresso neighborhood, cover approximately 237 acres (0.37 square miles) and 380 acres (0.60 sq mi) respectively. The total combined hydrologic project area overlaps two additional neighborhoods (Home Beautiful Park and City View Townhomes) and encompasses a larger topographical area of approximately 993 Acres as depicted on Exhibit 2.

As a result of the October 2011 flooding event, the City decided to further evaluate the alternatives presented in the 2009 SWMP for the four areas identified as critical flooding areas.

The scope of services in Task Order 13, Phase I, includes the preliminary investigations and analyses of the study area to determine the location, type and quantity of geotechnical and hydrogeological investigations to be implemented, in subsequent Phase II, which will determine the feasibility of stormwater management via recharge wells and infiltration trenches in the neighborhoods to attenuate flooding issues; to the level of service adopted by the City (5-year, 24 hour storm event).

The deliverables for Phase I will include a testing plan and schedule for the technical feasibility study to be completed in Phase II. Engineering services to complete the feasibility study and develop planning-level estimates of quantities and probable capital costs will be provided for Phase II.

The fees for the task order were reviewed by City staff and the proposal was found to be reasonable. The hourly rates used in the proposed fee conform to the hourly rates set in the Master Agreement between CDM Smith, Inc. and the City as amended and approved by City Commission on May 1, 2012.

Resource Impact

There is a fiscal impact to the City in the amount of \$19,559.60, \$18,280 for the Task Order and \$1,279.60 for Engineering Administration fees.

Funding for this item and seven percent Engineering Administration fees is available in Fund 470, Subfund 01, PBS690603-3199.

AVAILABLE							
FUND	SUBFUND	FUND NAME	INDEX #	INDEX NAME	SUBJECT #	SUBJECT NAME	AMOUNT
470	01	STORMWATER	PBS690603	STORMWATER-OPERATIONS	3199	OTHER PROFESSIONAL SERVICES	\$ 19,559.60
TOTAL							19,559.60

Attachments

Exhibit 1 – Task Order No. 13

Exhibit 2 – Hydrogeological areas for Progresso, Durrs, Dorsey-Riverbend Neighborhood

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