



**TO:** Honorable Mayor & Members of the  
Fort Lauderdale City Commission

**FROM:** Lee Feldman, ICMA-CM, City Manager

**DATE:** January 8, 2013

**TITLE:** Motion to approve Task Order 23 with CDM Smith Inc., in the amount of \$240,772 – Large Diameter Process Pipe Replacement – Phase II and approve funding transfer

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**Recommendation**

It is recommended that the City Commission approve Task Order 23 with CDM Smith Inc., for engineering services in the amount of \$240,772, approve \$34,740.38 for Engineering administration fees, and authorize the City Manager to execute.

**Background**

On September 27, 2011 the City of Fort Lauderdale (City) experienced a 48-inch diameter process pipe failure at the George T. Lohmeyer (GTL) Wastewater Treatment Plant. In response to the pipe failure, the City Manager issued emergency Memorandum 11-322, to the City Commission on October 14, 2011, and the emergency bypass pipe installation was initiated and completed by November 2011.

As a result of the failure, Task Order 12 was issued and approved by City Commission on February 7, 2012. Task Order 12 involved hydraulic evaluation and conceptual and preliminary design engineering services to repair or replace existing pre-stressed concrete cylinder (PCC) pipe. The Task Order was completed in May 2012, and a report was provided by CDM Smith to the City, recommending the replacement of approximately 2,460 linear feet of various pipe diameter sizes (42-66 inch) of critical-duty process PCC pipe.

The scope of services in Task Order 23 include continuing engineering services for 60%, 90% and final design, as well as, permitting and bidding services to replace the PCC pipe. The proposed scope of design work for this project is highly complex since it should incorporate specific design features to ensure that the Wastewater Treatment plant is fully functional during construction of approximately 2,460 feet of 42-in to 66-in PCC pipe with ductile iron pipe. The construction of the PCC pipe will have to be undertaken in phases and the scope of work for each phase which will be determined based on the development of a hydraulic model and an analysis of the projected

sewage flows. The scope of work for the design also includes constructability and quality control/assurance reviews for each phase of the project.

In order to ensure the successful and timely completion for the rehabilitation of the GTL's process piping as describe above, the hours budgeted for principal associate and senior professional staff are justifiable given the above stated project complexity. Highly experienced engineering staff will be required in order to provide overall project supervision and quality assurance, quality control required to bid and construct this projects properly. Engineering staff therefore recommends using principal associates and senior professionals to provide this service.

The hours allocated under principal associate and senior professional categories will be distributed as shown in the labor category table provided, which summarizes all team's members and roles to be performed under this task order.

The fees for the task order were reviewed by City staff and negotiated down from \$257,427 to \$240,772 and have been 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 \$240,772 for the task order and \$34,740.38 for estimated engineering administration fees, for a total of \$275,512.38.

Funding for this item is contingent upon approval of Consolidated Budget Amendment, CAM #12-2644, also presented on the 1/8/13 agenda. UPON APPROVAL OF City CAM #12-2644, the following funding is available:

FISCAL YEAR	FUND	SUBFUND	FUND NAME	INDEX#	INDEX NAME	SUBJECT#	SUBJECT NAME	AMOUNT
2013	451	02	Central Regional Wastewater System - Replacement	P11773.451	GTL Plant Rehabilitation of PCCP Pipe	6534	Engineering Fees	\$240,772.00
2013	451	02	Central Regional Wastewater System - Replacement	P11773.451	GTL Plant Rehabilitation of PCCP Pipe	6501	Force Account	\$34,740.38
<b>TOTAL</b>								<b>\$275,512.38</b>

Related CAM: #12-2644

**Attachment(s)**

Exhibit 1 – Task Order 23

Exhibit 2 – Memorandum 11-322

Prepared by: Jorge Holguin, Project Engineer  
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Department Director: Albert J. Carbon, P.E.