

**AGENDA**



**Recommendation for Council Action (CLMD)**

Austin City Council

**Item ID:**

51234

**Agenda Number**

14.

**Meeting Date:**

11/19/2015

**Department:**

Capital Contracting Office

**Subject**

Authorize negotiation and execution of amendments to the professional services agreement with AECOM TECHNICAL SERVICES, INC. for the Albert R. Davis and Albert H. Ullrich Water Treatment Plants Raw Water Hydraulic and Energy Efficiency Improvements project in the amount of \$1,203,726.10, for a total contract amount not to exceed \$2,753,726.10

**Amount and Source of Funding**

Funding is available in the Fiscal Year 2015-2016 Capital Budget of the Austin Water Utility.

**Fiscal Note**

A fiscal note is attached.

**Purchasing Language:**

Original contract was awarded through a competitive Qualifications Based Selection process.

**Prior Council Action:**

January 27, 2011 Council authorized AECOM to provide preliminary engineering phase professional services.  
August 22, 2013 - Council authorized AECOM to provide additional preliminary engineering phase professional services.

**For More Information:**

Connie Smith, 512-974-7195; Omoruyi Ebomwonyi, 512-972-0237; Lucy Bonee, 512-974-7967; Rolando Fernandez, 512-974-7749; Sarah Torchin, 512-974-7141.

**Boards and Commission Action:**

Recommended by the Water and Wastewater Commission on October 14, 2015.

**Related Items:**



**MBE / WBE:**

This contract was awarded in compliance with City Code Chapter 2-9B Minority Owned and Women Owned Business Enterprise Procurement Program by meeting the goals with 5.04% MBE and 44.10% WBE participation to date.

**Additional Backup Information**

The Albert R. Davis and Albert H. Ullrich Water Treatment Plants have low service pump stations that pump water from Lake Austin to the treatment plants via raw water pipelines. Treated water pump stations then convey treated water to the distribution system. These pump stations account for the majority of energy consumption at the City's water treatment facilities.

On January 27, 2011 Council authorized AECOM Technical Services Inc. (AECOM) to recommend various hydraulic efficiency improvements at the Davis Water Treatment Plant low service pump station and raw water system and to identify and recommend energy efficient improvements at Ullrich Water Treatment Plant low, medium, and high service pump stations.

On August 22, 2013 Council approved an amendment for a supplemental professional services agreement with AECOM that provided for design phase services that were not included in the services previously authorized on January 27, 2011. AECOM continued to build on their preliminary engineering recommendations and began design modifications and improvements to meet the long-term operation efficiency needs of both the David and Ullrich Water Treatments plants.

The City anticipates the amendments associated with this action will include services for both the Davis and Ullrich Water Treatment Plants. Supplemental Amendment # 4 provides services for the Ullrich Water Treatment Plant including additional design for replacing pump control valve electrical actuators, construction phase services, and warranty phase services related to the low service pump station improvements.

The Ullrich Water Treatment Plant low service pump station will have several improvements made to increase energy efficiency. These improvements include refurbishing two low service pumps, replacing motor control centers with modern units, fixing leaking control valves, and adding a surge protection system to protect the facility. The Ullrich high service pump station will have two obsolete pumps replaced and modern pump control equipment added. These replacements will bring all of Ullrich's pump stations in line with City standards for control and facility protection and will increase the electrical and hydraulic efficiency of the facility.

Supplemental Amendment # 5 provides services for the Davis Water Treatment Plant including final design, construction phase and warranty phase services for the low service pump station improvements, high service pump station surge vault analysis and an investigation to modify re-carbonation basin control. AECOM will continue to build on their engineering recommendations, as approved by the City, to finalize design modifications and improvements that will meet the long-term, operation efficiency needs of the plants. A need for additional work at the Davis Water Treatment Plant is recognized and this authorization allows staff to execute future amendments for this work.

The Davis Water Treatment Plant low service pump station exhibits hydraulic anomalies in the intake wells that cause excessive pump vibrations. These conditions prevent simultaneous operation of two of the station's largest low service pumps, which lessens the hydraulic capacity of the station and limits pumping efficiencies. An out of service 48" raw water pipe between the low service pump station and the plant will be repaired to minimize low service system head losses and restore system redundancy. Modifications will be made to the rapid mix chambers to enhance efficient mixing of treatment chemicals for a wider range of process flows. Work also includes replacing the antiquated surge protection system that protects the high service pump station facility.

These amendments to the Professional Services Agreement have been approved by the City's Change Control Committee. The Change Control Committee was established to comply with Council Resolution No. 20120126-048, which required the establishment of consistent criteria and process to evaluate contractual changes for all contracts administered by the Contract Management Department. The Change Control Committee is comprised of management-level subject matter experts.

There has been no public involvement as work will be done on site or within the facility and will not affect the surrounding neighborhood.

The Projects are located in District 8 (Albert H. Ullrich Water Treatment Plant) and District 10 (Albert R. Davis Water Treatment Plant). Both Plants serve the other districts. This project is managed by the Public Works Department.

AECOM is located in Austin, Texas.