

## A G E N D A



## Recommendation for Council Action (CMD)

Austin City Council	Item ID:	26222	Agenda Number	13.
Meeting Date:	August 22, 2013			
Department:	Contract Management			
Subject				
Authorize negotiation and execution of an amendment to the professional services agreement with AECOM TECHNICAL SERVICES, INC. (AECOM), for design and bidding engineering services for the Davis & Ullrich Water Treatment Plant Raw Water Hydraulic and Energy Efficiency Improvements in the amount of \$1,100,000 for a total contract amount not to exceed \$1,550,000.				
Amount and Source of Funding				
Funding is available in the Fiscal Year 2013-2014 Capital Budget of the Austin Water Utility.				
Fiscal Note				
A fiscal note is attached.				
Purchasing Language:				
Prior Council Action:	January 27, 2011 – Authorization of AECOM to provide preliminary engineering phase professional services for the Davis and Ullrich Water Treatment Plants Raw Water Hydraulic and Energy Efficiency Improvements with an amount not to exceed \$450,000.			
For More Information:	Bryan Barnett P.E., 972-0162; Rolando Fernandez, 974-7749; Lacy Kuslo, 974-7141; Felecia Shaw, 974-6017.			
Boards and Commission Action:	August 14, 2013 - Approved by the Water and Wastewater Commission on 6-0-1 vote.			
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) with 9.79% MBE and 1.01% WBE subconsultant participation to date.			
Additional Backup Information				

The Albert R. Davis and Albert H. Ullrich Water Treatment Plants (WTP) 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.

The Davis WTP 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. A flow study to identify additional opportunities to increase efficiency of the high service finished water pump station will be performed, and the station control system will be upgraded to current standards.

The Ullrich WTP low service pump station will have several improvements made to increase energy efficiency: 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. This will bring all of Ullrich's pump stations in line with AWU standards for control and facility protection, and will increase the efficiency of the facility.

The City anticipates services for this supplemental professional services agreement to include design and procurement phase services. AECOM will continue to build on their preliminary engineering recommendations, as approved by the City, to design modifications and improvements that will meet the long-term, operation efficiency needs of Davis & Ullrich WTP. If specifically requested by the City, additional services of AECOM may include construction and warranty phase services for the designed improvements. If so, staff will return to Council to request additional authorization.

This amendment will provide for design phase services that were not included in the preliminary engineering phase services previously authorized. A future amendment for construction phase engineering services will be submitted once design phase services are complete.

This amendment has been approved by the City Change Control Committee.

This project is managed by the Austin Water Utility.

AECOM Technical Services Inc. (AECOM) is located in Austin, TX.