

A G E N D A



Recommendation for Council Action (CMD)

Austin City Council

Item ID:

23512

Agenda Number

14.

Meeting Date:

April 25, 2013

Department:

Contract Management

Subject

Authorize negotiation and execution of change order # 14 to the construction contract with MATOUS CONSTRUCTION, LTD., for the Hornsby Bend Biosolids Management Plant Digester Improvements and Sustainability Project in the amount of \$525,709.09, for a total contract amount not to exceed \$28,397,710.

Amount and Source of Funding

Funding is available in the Fiscal Year 2012-2013 Capital Budget of the Austin Water Utility.

Fiscal Note

A fiscal note is attached.

Purchasing
Language:

Prior Council
Action:

December 17, 2009 - Council authorized the execution of a construction contract with Matous Construction, Ltd., for a total contract amount not to exceed \$27,951,000. June 18, 2009 - Council approved a resolution authorizing the City Manager to apply for funding from the Texas Water Development Board (TWDB) for the implementation of wastewater projects.

For More
Information:

Jules Parrish, 974-9385; Susan Garnett, 974-7064; Fred Ramirez, 972-0161; Felecia Shaw, 974-6017.

Boards and
Commission
Action:

To be reviewed by the Water and Wastewater Commission on April 10, 2013.

MBE / WBE:

This contract was awarded in compliance with City Code Chapter 2-9A (Minority Owned and Women Owned Business Enterprise Procurement Program) with 10.24% MBE and 0.14% WBE subcontractor participation to date including this change order.

Related Items:

Additional Backup Information

The Hornsby Bend Biosolids Management Plant (BMP) is an award winning, nationally recognized environmental management and research facility, located on FM 973 east of the Colorado River. The original project, approved in 2009, is one part of a mutually supporting set of capital improvements to implement green infrastructure at the Hornsby Bend BMP.

Funding for this project was provided from a \$31.8 million zero-interest loan from the Texas Water Development Board as part of the American Recovery and Reinvestment Act (ARRA). The original project will significantly reduce the plant's carbon footprint by improving plant wide energy efficiency and reliability, reducing the use of petroleum based polymers, and enhance production and capture of digester gas, a renewable energy source that will be used to generate electricity. The original contract has provided improvements to the Flow Equalization Basin, Blend Tank mixing, Gravity Belt Thickeners, Process Building ventilation, Digester and Sludge-Holding Basin cleaning and repairs, Process Flow Measurement, gas collection, flares, and iron feed system for odor control. Overall, the proposed improvements will optimize the current process to reduce energy consumption and substantially increase the production of digester gas, which is a renewable energy source. The increased digester gas production from this contract will fuel a combined heat and power facility that is being implemented in a separate project.

This change order to the original contract is the result of a recent emergency incident at Hornsby Bend. In December 2012, unrelated to the ongoing construction, a pipe carrying digested sludge (manually operated pressure system) exceeded pressure limits and burst in the Govalle Complex Basement Mechanical room causing significant damage to both existing systems as well as new equipment installed as part of this contract. This flooded the basement with approximately one million gallons of sludge and severely damaged the majority of equipment housed in the basement. The basement contained the sludge, and after the sludge was pumped from the basement, the extent of the damage was determined based on an assessment conducted of the facility. This change order will address repair and replacement of equipment damaged by the flood, restore safe working conditions, and install preventative equipment to protect against future flooding.

The Govalle Complex Basement will be cleaned to remove dried sludge from basement walls, piping, floors, pumps and equipment. Electrical repairs will be made, including: replacement of damaged work area lighting, safety switches & disconnects, sensors and instruments, and damaged panels. The gas detection system and electric-operated valve actuators damaged by the flood will be removed and replaced. Piping and heat exchanger insulation damaged by basement flooding will also be replaced. The hot water flow meter, which manages four heat exchanger water recirculation pumps damaged in the flood, must be replaced and will be upgraded to a unit with more efficient control. Air relief valves, three-way valves, and compressor/dryer damaged by flooding will be replaced. A rupture disk/thrust restraint will be added as a preventative measure so the system has redundancy in the pressure relief system to avoid a future flood.

This project is located within zip code 78725 and is managed by the Public Works Department.

Matous Construction, Ltd. is located in Belton, TX.