

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: November 17, 2010

Board Item: V-A-5

**FIRST AMENDMENT TO AGREEMENT WITH CAROLLO ENGINEERS
FOR DESIGN OF THE MARSTON HEADWORKS IMPROVEMENT PROJECT
AGREEMENT 13028A**

Action by Consent

Action

Information

On May 12, 2010, Agreement 13028A was approved with Carollo Engineers for the design of the Marston Headworks Improvement Project in the amount of \$300,626.00. The project consists of designing improvements to four chemical systems located in the Headworks Building. The scope consists primarily of electrical design and instrumentation and control work and to a lesser extent, structural design, and drafting. Denver Water has performed process related design portions of the project.

For Potassium permanganate – the project includes: 1) a structural platform for dust collectors, 2) integration of new gravimetric feeders with automation, 3) installation of a secondary containment sump, and 4) separation of process drains from the sanitary sewer. For alum – the project includes: 1) improvements to separate process drains from sanitary sewer, 2) installation of a concrete curb to create dedicated secondary containment, and 3) replacement of field instruments. For sodium hydroxide (caustic) – the project includes: 1) new storage tanks, 2) new secondary containment, 3) new floor drains, and 4) other related improvements to refurbish existing equipment to place the system back in service. For cationic polymer – the project includes the conversion of a tank for expanding storage capacity.

This First Amendment is necessary to provide additional engineering services during design and during project bidding. Construction Services will also be provided under this Amendment. Additional design services included preparation of a separate procurement package for control panels, additional drafting and engineering time to meet an expedited schedule for bidding documents, and design revisions due to preliminary code review of plans and specifications. These tasks account for \$73,931.00 and will be spent in 2010.

As anticipated in the original competitive selection and subsequent contract, the Consultant will provide services during construction. Electrical and Structural Inspectors will be provided to supplement Denver Water Engineers during construction in 2011. This task is estimated at \$85,475.00 and will be on a time and materials basis.

The 2010/2011 Capital Improvement Plan (MPC 2CE0010) includes sufficient funds for this project.

RECOMMENDATION

It is recommended that the Board approve the First Amendment to Agreement 13028A with Carollo Engineers to provide consulting engineering and inspection services for the Marston Headworks Improvement Project in the amount of \$159,406.00.

Budget Considerations

Master Plan Code(s): 2CE0010

Budgeted Item Unbudgeted Item Funds transferred from another project:

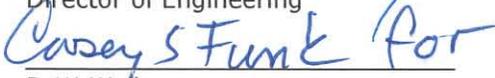
Budget Information

2010 Budgeted Expenditures	\$73,931.00
2011 Budget	\$1,399,613.00
2011 Amount Requested This Item	\$85,475.00
Additional Expenditures Anticipated	\$1,314,138.00
Revised 2011 Estimate	\$1,399,613.00
Variance Required	\$0.00

Approvals:


Robert J. Mahoney
Director of Engineering


James S. Lochhead
CEO/Manager


Patti Wells
General Counsel