

MEMORANDUM

April 7, 2011

TO: The Board of Mayor and Aldermen

FROM: Eric S. Stuckey, City Administrator
David Parker, P.E., City Engineer
Eric J. Gardner, P.E., Director of Engineering

RE: ARRA Drinking Water Project - WTP Raw Water Reservoir Rehabilitation Project (COF Contract No. 2009-0088) - Final Change Order

Purpose

The purpose of this memo is to recommend approval of the Final Change Order for the Water Treatment Plant (WTP) Raw Water Reservoir Rehabilitation Project (COF Contract No. 2009-0088).

Background

Summit Constructors, Inc. was awarded the construction contract for the WTP Raw Water Reservoir Rehabilitation Project by BOMA on December 17, 2009. The 180 day original contract period expired on September 28, 2010. On August 24, 2010, BOMA approved Change Order No. 1 which increased the contract completion date by an additional 14 days. The project was complete and in operational use on September 30, 2010. This Final Change Order adjusts the contract amount by final balancing construction items and additions, which for this project are a credit for the filter backwash disposal site substitution, the additional removal of filter backwash and the onsite soft spot grading adjustments. The allotted amount of money from American Recovery and Reinvestment Act of 2009 (ARRA) and the State Revolving Loan Fund (SRF) for this project was \$2.5 million, of which we have already submitted for and received.

Financial Impact

The proposed change order would result in an INCREASE of \$49,962.79 to the construction contract with Summit Constructors, Inc. The final Construction contract amount will be \$3,946,762.79.

Total Original Contract Amount:	\$ 3,896,800.00
Amount of Previous Change Orders:	0.00
Amount of this Change Order:	<u>49,962.79</u>
Final Contract Amount:	\$ 3,946,762.79

This project was selected as an ARRA/SRF funded project at a total of \$2.5 million, \$1 million loan forgiveness (project funding) and \$1.5 million of low interest loan from the SRF.

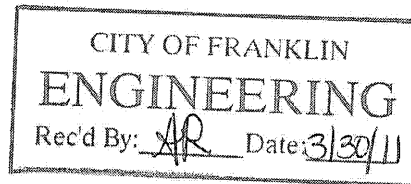
Recommendation

Staff recommends approving the Final Change Order to the WTP Raw Water Reservoir Rehabilitation Project.



AECOM 615 244 8864 tel
220 Athens Way 615 244 8760 fax
Suite 200
Nashville, TN 37228-1352
www.aecom.com

March 29, 2011



Ms. Patricia Proctor, P.E.
Project Manager
City of Franklin, Tennessee
Engineering Department
109 Third Avenue, S.
Franklin, TN 37065

**RE: WTP RAW WATER RESERVOIR REHABILITATION
COF 2009-0088 DWA #2009-097 (60147341)
CHANGE ORDER NO. 01-FINAL**

Dear Ms. Proctor:

Transmitted herewith are four (4) originals of **CHANGE ORDER NO. 1 – FINAL** as executed by SUMMIT Constructors, Inc. for the referenced project for your review and recommendation to the BOMA. This will adjust the contract amount of \$3,896,800.00 by final balancing construction items and additions to the **\$3,946,762.79 – final contract price**. The contract efforts are complete and the project financial records are to be adjusted for closure to the final pay amount. We recommend this Change Order No. 1 – Final for further COF execution.

This Change Order addresses the credit for filter backwash disposal site substitution, the additional filter backwash removed and the grading adjustments for soft spots and revise grading plan. A net increase of contract value of \$49,962.79 or 1.3% resulted from basically excess filter backwash material removed.

The amount is based upon quantities verified by COF and the requested/approved changes by the COF as the project progressed. We should note the project is complete; acceptance inspections were held and in operational use. TDEC has issued the operational permit to COF, pending for payment. Record drawings have been provided and all construction acceptance items addressed. If you have any questions or require additional information, please contact me at 313-0365.

Respectfully,

I AECOM


Paul A. Stonecipher, P.E.
Associate Vice President/Project Manager

PAS:br

Enclosure(s)

xc: Mr. David Parker
Mr. Eric Gardner
Mr. Mark Hilty
Mr. David Phillips

CHANGE ORDER NO. 01-Final

OWNER: City of Franklin
 Water Management Department
 109 3rd Avenue South
 Franklin, Tennessee 37065

PROJECT NAME: WTP Raw Water Reservoir Rehabilitation
 COF Project # 2009-0088
 DWA #2009-097

CONTRACTOR: Summit Constructors, Inc.
 1516 Fort Negley Blvd.
 Nashville, Tennessee 37203

DATE: March 28, 2011

PURPOSE OF CHANGES: Adjust Contract Price to Final Value as Hereafter Listed.

I. DESCRIPTION OF CHANGES INVOLVED

A. Unit Quantity/Price Final Balancing to Constructed Items based upon final site survey.

<u>Item</u>	<u>Description</u>	<u>(+) Addition</u>	<u>(-) Reduction</u>
A-1	Erosion Control	NC	NC
A-2	RLS Surveys & Construction Layout	NC	NC
A-3	Rip-Rap Removal & Use or Disposal	NC	NC
A-4	Earthwork Cut to Fill	\$ 19,053.60	
A-5	Soft Spot Repair Inside Reservoir	\$ 20,930.00	
A-6	Filter Backwash Removal & Disposal	\$ 289,008.00	
A-6A	Filter Backwash Removal & Disposal - Field Order 1		\$ (235,140.00)
A-7	Fine Grade & Finish for Liner Placement	NC	NC
A-8	Spillway Modifications & 6-16" Emergency Overflows	NC	NC
A-9	16" WTP Effluent Drain w/Bore & Case Complete	NC	NC
A-10	Miscellaneous Pipe & Concrete & Appurtenances	NC	NC
A-11	Furnish & Install Reservoir Liner Complete	NC	NC
A-12	Geoweb w/River Rock for Wave Absorption	NC	NC
A-13	Baffle Curtain Complete	NC	NC
A-14	Final Earthwork RLS Survey	NC	NC
A-15	Final Disturbed Area Restoration by Seed & Straw	NC	NC
A-16	Allowance for Unforeseen Conditions* (See Descriptions Hereafter)		\$ (43,888.81)

Total (Adjusted Contract Prices) \$ 328,991.60 \$ (279,028.81)

Net Change \$ 49,962.79

B. Change Descriptions

Line Item A-4 Earthwork Cut to Fill - On the Schedule of Values had an original quantity established of 24,000cy. Due to the presence and removal of more Filter Backwash Material than was bid anticipated, the actual Cut to Fill required by the project to produce an acceptable bottom contours for liner installation was 31,472cy. This quantity was arrived at with the use of interim and final topographic surveys which were utilized in Earthwork Takeoff Software to calculate volumes.

Line Item A-5 Soft Spot Repair Inside Reservoir - On the Schedule of Values had an original quantity established of 1,500cy. Due to the presence of more "soft" areas of unsuitable bearing materials of soil and filter backwash mix and deeper depths than was bid anticipated, the actual quantity required by the project to produce an acceptable reservoir floor structural bearing for liner installation was 4,490cy. This quantity was arrived at with the use of interim and final topographic surveys which were utilized in Earthwork Takeoff Software to calculate volumes.

Line Item A-6 & A-6A Field Order 1 Filter Backwash Removal & Disposal - On the Schedule of Values had an original quantity established of 26,000cy. Due to the presence and removal of more unsuitable bearing filter backwash material and to greater depths than was bid anticipated, the actual quantity required by the project to produce an acceptable level of Filter Backwash Removal and Disposal in licensed landfill was 31,352cy. This quantity was arrived at with the use of topographic surveys which were utilized in Earthwork Takeoff Software to calculate volumes. This volume change also impacts the quantity established for Line Item A-6A Field Order 1 Change Disposal Site For Filter Backwash. This change and permit modification to a construction and demolition landfill - Southern Services, from a Special Waste landfill per specifications and TDEC permit allowed a credit to the project costs. This line item was a deductive cost to Line Item A-6 Filter Backwash Removal & Disposal presented to COF staff and approved at (\$7.50)/cy for the site disposal change.

*Field Order 2 - An additional concrete cap was installed on the box culvert over the discharge spillway due to existing concrete slab deterioration compensated for under Item A-16 Allowance for Unforeseen Conditions. FO2 compensation paid under A-16 was \$500.00.

*Field Order 3 - The splash pad at the reservoir influent pipe was widened from 10 feet to 26 feet to dissipate water better due to the change in grading plans from filter backwash disposal quantity compensated for under Item A-16 Allowance for Unforeseen Conditions. FO3 compensation paid under A-16 was \$2,011.19.

*Field Order 4 - Additional survey work was required for interim quantities takeoff to determine revised grading plan and quantities due to expanded volume of filter backwash disposal compensated for under Item A-16 Allowance for Unforeseen Conditions. FO4 compensation paid under A-16 was \$3,600.00.

C. Previous and Other Approved Additional Work/Changes

• None (+/-) \$0.00

II. SUMMARY

(A) Balancing Final Units/Price	(+) \$49,962.79
(B) Previous and Other Change Orders	(+/-) \$0.00
Change Order No. 1 - Final	(+) \$49,962.79

Original Contract Amount	(+) \$3,896,800.00
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Change Order No. 1 - Final	(+) \$49,962.79
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FINAL CONTRACT AMOUNT	\$3,946,762.79
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II. CHANGE ORDER CONDITIONS

1. All work to be performed under this Change Order shall be carried out in compliance with the Contract Documents included in the preceding description of Change Order Items involved, with the Supplemental Contract Drawings designated as N/A and under the provisions of the Original Contract, including compliance with applicable Specifications for the same type of work.

2. This Change Order, unless otherwise provided herein, does not relieve Contractor from strict compliance with the guarantee provisions of the Original Contract, particularly those pertaining to performance and operation of equipment.

3. Contractor expressly agrees that it will place under coverage of its Performance and Payment Bonds and Contractor's Insurance all work covered by this Change Order.

4. The costs established under this Change Order are acknowledged as including any and all costs associated with the work described herein and including any and all costs associated with any and all work performed or to be performed by the Contractor which may be affected in any manner by the work described herein. Contractor hereby waives all claims, known and unknown, relating in any way to the work, on the time required for performing the work, associated with this Change Order, including, without limitation, claims relating to the impact of this and other Change Orders on unchanged work and the cumulative effect of this and other Change Orders on Contractor's costs and time of performance.

III. ADJUSTMENTS IN AMOUNT OF CONTRACT

Total Original Amount:	<u>\$3,896,800.00</u>
Amount of this Final Change Order Request:	<u>\$49,962.79</u>
Percent of this Final Change Order Request:	<u>(1.3%)</u>
Final Contract Amount including this Change Order:	<u>\$3,946,762.79</u>

VI. ADJUSTMENTS IN CONTRACT TIME


Original Contract Time:	<u>180</u>	Calendar Days
Net Addition due to previous BOMA action:	<u>14</u>	Calendar Days
Net (Addition)(Reduction) resulting from this Change Order:	<u>0</u>	Calendar Days
Current Contract Time including this Change Order:	<u>194</u>	Calendar Days

ACCEPTED BY THE CONTRACTOR

By: 
Nicholas P. McGinn, Sr., President

Date: 3/29/2011

RECOMMENDED BY:

AECOM
By: 
Paul Stonecipher, P.E. Associate Vice President

Date: 3/29/11

Title: _____

RECOMMENDED BY:

CITY OF FRANKLIN, CITY ENGINEER/CIP EXECUTIVE

By: _____
David Parker, P.E.

Date: _____

APPROVED BY BOARD OF MAYOR AND ALDERMAN ON: _____

By: _____
Ken Moore, Mayor

Date: _____

ATTEST:

This the ____ day of _____ 2011.