



MEMORANDUM

TO: Gregg Mandsager, City Administrator
FROM: Roger Kirby, Director WPCP
DATE: April 1, 2010
RE: Change Order #3

Attached you will find Change Order # 3 for the WPCP Renovation Project. Change Orders # 1 and #2 resulted in a total change of an additional \$11,117. This change order includes 20 modifications to the original contract for a total of \$40,744. There are a number of credits as well as additional work but the main change is in the update of our SCADA system. The systems integrator suggested we do an evaluation of our existing system. After the study, including testing of our system a recommendation was made to replace some of the fiber optic cable and reconfigure the system so if there is a failure in one of the facilities it will only affect that area and not the entire system as it now exists. The \$37,471 price to correct this problem is very reasonable and it is a lot more cost effective than trying to do this later when we have a problem. The other major cost is \$11,995 for two additional Dissolved Oxygen Probes in our Aeration Tanks. These additional probes will allow us to more closely monitor our process to get the optimum treatment and save money by not using excess air to meet our requirements.

Our total change orders are just under \$52,000 for a \$16,000,000 project. This is very reasonable (.3 %). I do not anticipate any further large change orders on this project. We do have a few that we are currently working on but most of the major components are either started or delivered and most of the deep digging is completed.

Please include this item on the agenda for the April 15, 2010 Council Meeting. I would recommend the council approve Change Order # 3 as submitted. I will get the original change Orders to Fran for signatures.



March 18, 2010

CHANGE ORDER NO. 3

MUSCATINE, IOWA
 WATER POLLUTION CONTROL PLANT IMPROVEMENTS

This change order is to document 20 modifications to the construction contract for the Water Pollution Control Plant Improvements. The modifications included in this change order are for additions and deletions of work to the contract. Compensation for the Contractor for each of the items is based on the Contractor's Proposal as reviewed, negotiated and approved. Modifications to the contract included in Change Order No. 3 are as shown on Attachment A.

Change Order No. 3 to the contract for the Water Pollution Control Plant Improvements provides for an increase of \$40,744 in the contract price.

WILLIAMS BROS. CONSTRUCTION INC.

By Martin K. McGraw
 Title PROJECT MANAGER
 Date 3/24/10

VEENSTRA & KIMM, INC.

By JAMES C. LORENCE
 Title Project Manager
 Date 3/18/10

CITY OF MUSCATINE, IOWA

By Richard W. Brian
 Title Mayor
 Date 4/23/10

ATTEST:

By Geary Minder
 Title City Clerk
 Date 4/22/10

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CONSTRUCTION INC**

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ATTACHMENT A

CHANGE ORDER NO. 3

WATER POLLUTION CONTROL PLANT IMPROVEMENTS MUSCATINE, IOWA

COST CHANGES

- | | |
|--|----------------|
| 1. Delete four 2" wye strainers directly upstream of the solenoid valves in the Headworks Building, RFP No. 030. | -\$265 |
| 2. Relocate additional existing conduit that was exposed during the relocation of the existing ductbank around the Blower Building, RFP No. 031. | +\$5,578 |
| 3. Revise the washdown piping in the two aeration basins, RFP No. 029. | -\$4,075 |
| 4. Provide various wiring revisions as described in Field Order No. 3, RFP No. 027 | No Cost Change |
| 5. Revise the odor control system wiring as described in Field Order No. 5, RFP No. 036. | No Cost Change |
| 6. Provide a metering J-Box and strut stands between the two utility transformers at the east end of the Blower Building, RFP No. 026R.2. | +\$228 |
| 7. Relocate additional existing wiring that was discovered during the relocation of the existing ductbank around the Blower Building, RFP No. 032. | +\$1,396 |
| 8. Provide two additional dissolved oxygen probes and one transmitter at the east end of the Aeration Basins, RFP No. 028R. | +\$11,995 |
| 9. Provide additional equipment required since the specified gas monitoring components are no longer available, RFP No. 034. | +\$715 |
| 10. Revise the selector switch wiring as described in Field Order No. 4, RFP No. 035. | No Cost Change |
| 11. Provide an additional blank section to Motor Control Centers Nos. 2 and 4 for future expansion, RFP No. 033R.1. | +\$4,200 |

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12.	Provide a credit to compensate the City for the electrical power used by the Contractor from the start of construction through January 7, 2010, RFP No. 042.	-\$26,048
13.	Provide telephone service to the Primary Clarifier Building, Blower Building, UV Building, and Anaerobic Digester Building as described in Field Order No. 6, RFP No. 037R.1.	+ \$2,000
14.	Provide a credit to delete a spare "recovery wheel" for the Energy Recovery Unit ERU-1, RFP No. 039R.	-\$7,000
15.	Add one additional 6" plug valve in the digested sludge line as described in Field Order No. 7, RFP No. 038.	+ \$2,214
16.	Add five additional 4" plug valves to the digester heat exchanger RSD and HRSD piping in the Digester Control Building as described in Field Order No. 8, RFP No. 040.	+ \$6,694
17.	Complete arc flash study including on-site training, for Water Pollution Control Plant electrical system, RFP No. 041R.	+ \$7,058
18.	Delete eight 6" flexible connectors at the Penn Valley double disc pumps, RFP No. 044.	-\$1,417
19.	Relocate instrumentation in the Digester Control Building as described in Field Order No. 9, RFP No. 045R.	No Cost Change
20.	Replace and reconfigure various components of the SCADA system as detailed in a Symbiont Memorandum dated November 30, 2009, RFP No. 002R.3.	<u>+\$37,471</u>
	TOTAL	+ \$40,744

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MAR 20 2010

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