



# City of Grand Island

Tuesday, June 26, 2012

Council Session

## Item G10

**#2012-163 - Approving Change Order No. 4 for Contract Time Extension for the Aeration Basin Improvements at the Wastewater Treatment Plant**

Staff Contact: John Collins, Public Works Director

# **Council Agenda Memo**

**From:** John Henderson, Waster Water Superintendent

**Meeting:** June 26, 2012

**Subject:** Approving Change Order No. 4 for Contract Time Extension for the Aeration Basin Improvements at the Wastewater Treatment Plant

**Item #'s:** G-10

**Presenter(s):** John Collins, Public Works Director

## **Background**

The City Council awarded the contract for construction to Oakview dck, LLC of Red Oak, Iowa in the amount bid of \$3,487,000 for the Aeration Basin Improvements for the Wastewater Treatment Plant on December 7, 2010. The primary purpose of the Aeration Basin Improvements project is to replace existing aeration equipment that is at or near the end of its useful life. Two existing blowers have been replaced with two high efficiency units that improve reliability and reduce energy usage and operating costs. The two new blowers operate with the two existing blowers which have remained in service. In addition to the blowers, the aeration basin piping and aeration equipment is modified or replaced to optimize process controls and replace aged equipment.

August 9, 2011, City Council approved a unit cost Change Order No. 1 for structural concrete sealing in joint work, in the amount of \$89,252.00, for a revised contract is \$3,576,252.00.

September 13, 2011, City Council approved a unit cost Change Order No.2 for Spiral Screw Pump modifications, in the amount of \$397,897.00, for a revised contract is \$3,974,149.00.

March 13, 2012, City Council approved a unit cost Change Order No.3 for miscellaneous changes to the work scope:

Delete Field Painting of New Steel Frame in Blower Building, and  
Paint Existing Basin Aeration Pipe Supports, and  
Repair Existing Welds on Screw Pump No.3, and  
Relocate New Dissolved Oxygen Probes in Basins, and  
Change Mounting of New Disconnects for Basin Mixers and Valves, and  
Relocate New Blower Local Control Panels, and  
Add Power Monitoring of New Blowers, and  
Blower Power Penalty

in the combined amount of a credit \$(30,124.00), for a revised contract is \$3,944,025.00.

## **Discussion**

The Aeration Basin Improvements Construction Project is near substantial completion, the new blowers, and aeration diffuser systems have been in service for the past month.

Change Order No. 4 covers a substantial completion contract time extension for the blower and aeration basin improvements and for the screw pump rehabilitation work, additionally a final completion contract time extension is being requested.

The Contractor made reasonable progress on the blower and aeration basin improvements; however, with the additional work included in Change Order No. 3, the Contractor was not able to complete the work by the original contract time of 460 calendar days for substantial completion. A contract time extension of sixty (60) days is being considered as reasonable. This sixty (60) day extension shall set the Substantial Completion of Blower and Basin Work on or before July 5, 2012.

Change Order No. 2 was executed in September 2011 and included the rehabilitation of the three mixed liquor screw pumps. It was understood that a contract time extension would be necessary, but a firm time could not be determined due to uncertain delivery times for some components being manufactured overseas and the required construction sequence and duration to rehabilitate one pump at a time. In addition, there was uncertainty associated with the repair scope for the screw welds and re-coating. All components have arrived onsite and rehabilitation of the first pump is nearing completion. An updated construction schedule provided by the Contractor indicates all pumps will be rehabilitated by September 23, 2012. This completion date is reasonable and represents an additional eighty (80) calendar days. This eighty (80) day extension shall set the Substantial Completion of Screw Pump Rehabilitation on or before September 23, 2012.

The current contract time for final completion is five hundred twenty (520) calendar days, or July 5, 2012. The days to achieve final completion for the project will be extended one hundred ten (110) calendar days to October 23, 2012, to accommodate both the rehabilitation of the mixed liquor screw pumps, and blower and aeration basin improvements.

There is no change in the Contract Price. The current Contract Price is \$3,944,025.00.

## **Alternatives**

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve a resolution granting a time extension and authorizing the Mayor to execute Change Order No. 4 with Oakview dck, LLC of Red Oak, Iowa.

2. Refer the issue to a Committee.
3. Postpone the issue to future date.
4. Take no action on the issue.

### **Recommendation**

City Administration recommends that the Council approve Change Order No. 4 in a time extension to the contract for Aeration Basin Improvement to Oakview dck, LLC of Red Oak, Iowa at the Wastewater Treatment Plant.

### **Sample Motion**

Move to approve Change Order No. 4 to the contract for Aeration Basin Improvement to Oakview dck, LLC of Red Oak, Iowa.

**CITY OF GRAND ISLAND, NEBRASKA  
WASTEWATER TREATMENT PLANT  
AERATION BASIN IMPROVEMENTS PROJECT**

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**CITY PROJECT WWTP-2010-3  
BLACK & VEATCH PROJECT NO. 163132**

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**CHANGE ORDER NO. 4**

Change Order No. 4 covers a contract time extension for the blower and aeration basin improvements and for the screw pump rehabilitation work.

Item CO4-1. Contract Time Extension for Substantial Completion of Blower and Basin Work.

Initiated by: Owner

The Contractor made reasonable progress on the blower and aeration basin improvements; however, with the additional work included in Change Order No. 3, the Contractor was not able to complete the work by the original contract time of 460 calendar days for substantial completion. A contract time extension of 60 days is reasonable.

Item CO4-2. Contract Time Extension for Substantial Completion of Screw Pump Rehabilitation.

Initiated by: Owner

Change Order No. 2 was executed in September 2011 and included the rehabilitation of the three mixed liquor screw pumps. It was understood that a contract time extension would be necessary, but a firm time could not be determined due to uncertain delivery times for some components being manufactured overseas and the required construction sequence and duration to rehabilitate one pump at a time. In addition, there was uncertainty associated with the repair scope for the screw welds and re-coating. All components have arrived onsite and rehabilitation of the first pump is nearing completion. An updated construction schedule provided by the Contractor indicates all pumps will be rehabilitated by September 23, 2012. This completion date is reasonable and represents an additional 80 calendar days.

Item CO4-3. Contract Time Extension for Project Final Completion.

Initiated by: Owner

The current contract time for final completion is 520 calendar days, or July 5, 2012. The days to achieve final completion for the project will be extended 110 calendar days to October 23, 2012, to accommodate the rehabilitation of the mixed liquor screw pumps.

6/12/2012

CO4-1

**CITY OF GRAND ISLAND, NEBRASKA  
WASTEWATER TREATMENT PLANT  
AERATION BASIN IMPROVEMENTS PROJECT**

**CITY PROJECT WWTP-2010-3  
BLACK & VEATCH PROJECT NO. 163132**

**SUMMARY**

**CHANGE ORDER NO. 4**

Effect on Contract Price

There is no change in the Contract Price. The current Contract Price is \$3,944,025.00.

Effect on Contract Time

--	Substantial Completion for Original Contract, Calendar Days (Date)	460 (May 6, 2012)
--	Final Completion for Original Contract, Calendar Days (Date)	520 (July 5, 2012)
CO4-1	Contract Time Extension for Substantial Completion of Blower and Basin Work, Calendar Days (Date)	60 (July 5, 2012)
CO4-2	Contract Time Extension for Substantial Completion of Screw Pump Rehabilitation, Calendar Days (Date)	80 (September 23, 2012)
CO4-3	Contract Time Extension for Project Final Completion, Calendar Days (Date)	110 (October 23, 2012)

No additional claims shall be made for changes in Contract Time arising from these work items.

All other provisions of the contract remain unchanged.

6/12/2012

CO4-2

Agreed to this \_\_\_\_\_ day of \_\_\_\_\_, 2012

Recommended:  
Black & Veatch Corporation

By: \_\_\_\_\_  
Project Manager

Date: \_\_\_\_\_

Approved:  
City of Grand Island

By: \_\_\_\_\_

Date: \_\_\_\_\_

Approved:  
Oakview dck, LLC

By: \_\_\_\_\_

Date: \_\_\_\_\_

Approved as to Form \_\_\_\_\_

June 26, 2012

City Attorney

6/12/2012

CO4-3

RESOLUTION 2012-163

WHEREAS, on December 7, 2010, by Resolution 2010-342, the City of Grand Island awarded Oakview dck, LLC of Red Oak, Iowa the bid in the amount of \$3,487,000 for furnishing materials and services for WWTP-2010-3 Aeration Basin Improvements project at the Wastewater Treatment Plant; and

WHEREAS, on August 9, 2011, by Resolution 2011-207, City Council approved a unit cost Change Order No. 1 for structural concrete sealing in joint work, in the amount of \$89,252.00, for a revised contract is \$3,576,252.00; and

WHEREAS, on September 13, 2011, by Resolution 2011-243, City Council approved a unit cost Change Order No. 2 for Spiral Screw Pump modifications, in the amount of \$397,897.00, for a revised contract is \$3,974,149.00; and

WHEREAS, on March 13, 2012, by Resolution 2012-63, City Council approved a unit cost Change Order No. 3 for miscellaneous changes to the work scope, in the credit amount of \$(30,124.00), for a revised contract is \$3,944,025.00; and

WHEREAS, it has been determined by City Staff and engineer Black & Veatch that time extension to the work to be performed by Oakview dck, LLC of Red Oak, Iowa, are necessary; and

WHEREAS, such time extension have been negotiated as fair and reasonable, and incorporated into Change Order No. 4; and

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that Change Order No. 4 with the contracting firm, Oakview dck, LLC of Red Oak, Iowa, for WWTP-2010-3 Aeration Basin Improvements project at the Wastewater Treatment Plant is hereby approved.

BE IT FURTHER RESOLVED, that the Mayor is hereby authorized and directed to execute such contract on behalf of the City of Grand Island.

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Adopted by the City Council of the City of Grand Island, Nebraska, June 26, 2012.

\_\_\_\_\_  
Jay Vavricek, Mayor

Attest:

\_\_\_\_\_  
RaNae Edwards, City Clerk

Approved as to Form	<input type="checkbox"/> _____
June 26, 2012	<input type="checkbox"/> City Attorney