

September 2, 2014

To: Mayor Bemrich and City Council

From: David Fierke, City Manager

**Subject: Waste Water System Improvements
North Central Ag Park Expansion – Phase D Section 1
Gridor Construction – Change Order #2**



ACTION: For vote Monday, September 8, 2014

Brief History

Since March, 2011 City Staff has been working with Cargill representatives regarding water and wastewater infrastructure needs for the North Central Ag Park. City Staff has also been working with CJ American since April, 2011 regarding their water and wastewater infrastructure needs. On April 25, 2011, the Council approved contracts with McClure Engineering and US Water Utility Group to complete a Water and Wastewater System Evaluation Study and Conceptual Master Plan. The draft System Evaluation Study information was presented to Council on October 24, 2011 and the draft Conceptual Master Plan was presented to Council on November 7, 2011.

In order to accommodate the water needs and wastewater loadings from Cargill and CJ America, the City's water and wastewater infrastructure needs to be expanded. The proposed projects will require extensive design work, construction administration, and financial administration.

Council approved a contract with McClure Engineering on November 14, 2011. The contract included services for 4 Phases:

- Phase A - Raw Water Source
- Phase B - Water Treatment Plant
- Phase C – Ag Park Ground Storage and High Service Pumping
- Phase D – Waste Water Treatment Plant

Under this agreement McClure Engineering proposes to provide services for preliminary design, final design, advertising, bidding, contract award, construction administration, staking, project representation, soil boring coordination, erosion control monitoring, record drawings, SRF loan application and administrative services, and meetings.

On October 8, 2012 a public hearing was held to approve plans, specifications, form of contract, and estimate of costs for the project. A bid letting was held on October 16, 2012. On November 5, 2012, Gridor Construction was awarded the contract by the Council in the amount of \$16,776,900.

Amendment#5 to the Agreement for Engineering Services with McClure Engineering was necessary for the following items:

Construction Administration	\$519,961.00
Construction Staking	\$ 12,300.00
Resident Project Representative	\$391,700.00
Record Drawings	\$ 5,270.00
SRF Loan Application	\$ 6,710.00

The total fee for Amendment #5 is \$932,941.00. This amendment also includes the services of Multivista as a sub-contractor to McClure Engineering. Multivista provides construction documentation services in the form of construction photos, (interior, exterior, and construction progression) with high resolution, and geo-referenced to the location on the site that the photo was taken. The photos and supporting documentation is then hosted on-line for the contractor, engineer, and owner to utilize to discuss construction progress or lack thereof, change orders, requests for information, and monthly progress meetings. The City can also use the documentation as maintenance, rehabilitation, and expansion may occur at those facilities. The scope of services Multivista will provide is included as an exhibit to the McClure Engineering contract amendment. Amendment #5 with McClure was approved on November 19, 2012.

Change Order #1 was approved on January 27, 2014 and it included adjustments to as built quantities in the amount of \$52,248.00. Change Order #1 did not affect the contract amount and was deducted from the contingency.

The Contractor, Gridor Construction, has completed the work specified in the contract documents. McClure Engineering submitted the Statement of Substantial Completion and Pay Estimate #18 Sub-final for Gridor Construction in the amount of \$621,418.55. Council approved the Statement of Substantial Completion and Pay Estimate #18 Sub-Final on May 12, 2014.

Pay Estimate #19 Sub-final to Gridor Construction in the amount of \$158,274.75 was approved by Council on June 23, 2014. There will be a number of sub-final payments for this project. Each pay estimate where retainage is to be released will be considered a sub-final payment.

On August 11, 2014 the Council accepted the Statement of Completion #2 from the Contractor, Gridor Construction. They have completed the work specified in the contract documents.

Analysis of Issue

Change Order #2 includes adjustments to as built quantities in the amount of \$137,518.00. The change order is further described in the attached documents. Change Order #2 will not affect the contract amount and was deducted from the contingency.

Budget Impact

These services will be paid by Sewer SRF Loans and will be repaid for by Sewer Utility funds. This project will be included into the large Ag Park expansion SRF loan to be closed in November. There is \$210,234.00 remaining in the contingency allowance.

Strategic Plan Impact

Policy D.4.2: Advanced planning for all infrastructure facilities shall be supported and routinely updated. Facilities benefited by advanced planning shall include, at minimum, schools, health care, residential areas, roads, water, sewer, storm water management, parks, recreation, and greenways.

Policy D.4.1: Recognizing that infrastructure has a powerful influence on growth and development, the availability of infrastructure (along with other factors) should determine where development will occur in the city, rather than the other way around.

Impact on Existing Plans

None

Committee Review / Recommendation

This project has been discussed at several council meetings and workshops.

Staff Conclusions / Recommendations

It is our recommendation to approve Change Order #2.

Alternatives

No practical alternatives are suggested.

Implementation and Accountability

The Engineering Department will be responsible for overseeing this project.


Signed

Approved



Tony Trotter, PE
Project Engineer

David Fierke
City Manager

 Contract Change Order		Change Order Number:	Two (2)
		MEC Project Number:	FTD 1311016-04
		Contract Date:	11/5/2012
For Contracted Project:	Wastewater System Improvements 2011, Fort Dodge, Iowa Phase D: Wastewater Treatment Section 1: Water Pollution Control Facility Expansion SRF Project No. 192064501	Date of Issuance:	8/20/2014
		Effective Date:	
Owner:	City Of Fort Dodge, Iowa	Original Contract Price:	\$ 16,776,900.00
Contractor:	Gridor Construction, Inc., 3990 27th Street SE, Buffalo, MN 55313	Current Contract Price:	\$ 16,776,900.00
		Current Contingency Allowance:	\$ 347,752.00
		Current Final Completion Date:	6/30/2014



You are hereby requested to comply with the following changes below from the original contracted plans and specifications.

Description of Changes	ADJUSTMENT to Contingency Allowance	DECREASE in Contract Price	INCREASE in Contract Price
1. PCO #24 - Addition of an Extra 16" Knife Gate Valve in South RAS Building	\$ 9,582.00	\$	\$
2. PCO #25 - Addition of Isolation Valves to New WAS MH at South RAS Building	\$ 10,577.00	\$	\$
3. PCO #27B - HMA Paving Allowance (for Final Surface of Avenue O, Avenue B, and In-Plant Roads) Stipulated Contract Allowance Line Item (\$170,000.00) Cost Over Run Charged Against Contingency	\$ 94,833.00	\$	\$
4. PCO #28 - Vacuum Truck Dumping Station Modifications	\$ 1,009.00	\$	\$
5. PCO #29 - WAS Flow Meter Piping Changes in South RAS Building	\$ 849.00	\$	\$
6. PCO #30 - Credit on Removal of Geogrid Stabilization under In-Plant Paving	\$ (25,694.00)	\$	\$
7. PCO #31 - Addition of Manhole Steps on Clarifier #4	\$ 505.00	\$	\$
8. PCO #32, #38 - Storm Water Return Flow Meter Allowance Stipulated Contract Allowance Line Item (\$50,000.00) Cost Over Run Charged Against Contingency	\$ 14,871.00	\$	\$
9. PCO #33, #35, #46A, #47A - SE Entrance Access System & Septic Hauler Dumping Station Allowance Stipulated Contract Allowance Line Item (\$85,000.00) Cost Over Run Charged Against Contingency	\$ 15,682.00	\$	\$
10. PCO #34 - Addition of Future 3" Data Conduit in concrete from Admin Building to Avenue O	\$ 15,281.00	\$	\$
11. PCO #36 - Clarifier #4 Stair and Sidewalk Modifications	\$ -	\$	\$
12. PCO #37 - Programming for Tracking Generator Runtimes into SCADA	\$ 1,045.00	\$	\$
13. PCO #38 - Addition of Existing DO Probes to East End of VLR #3 Passes #1 & #2	\$ 6,288.00	\$	\$
14. PCO #40 - Adjustment of Digester 2 Sludge Removal As-built Quantity	\$ 15,250.00	\$	\$
15. PCO #41 - Adjustment of Below Grade Concrete Removal Quantity	\$ (31,947.00)	\$	\$
16. PCO #42 - Raise Existing Hydrant at the SW Corner of the West Blower Building	\$ 1,200.00	\$	\$
17. PCO #43 - Addition of Stilling Wells in Existing Digesters #3 and #4	\$ 6,400.00	\$	\$
18. PCO #44 - Addition of Saddle Taps on New Heating Supply / Return Lines in Existing Tunnel	\$ 1,057.00	\$	\$
19. PCO #45 - Addition of Storm Drain Cover at SW Corner of Existing Maintenance Building	\$ 750.00	\$	\$
Totals:	\$ 137,518.00	\$ -	\$ -
Contingency Allowance Remaining:	\$ 210,234.00		
Net Change to Contract Price:		\$ -	
Updated Contract Price:		\$ -	16,776,900.00

Justification: See attached item summary.

The Amount of the Contingency Allowance will be DECREASED by the Sum of:	\$137,518.00
<i>One Hundred Thirty-seven Thousand Five Hundred Eighteen and 00/100 Dollars</i>	
The Total Remaining Contingency Allowance including this and previous Change Orders will be:	\$210,234.00
<i>Two Hundred Ten Thousand Two Hundred Thirty-four and 00/100 Dollars</i>	
The Amount of the Contract will be UNCHANGED by the Sum of:	\$0.00
<i>Zero and 00/100 Dollars</i>	
The Total Contract Price including this and previous Change Orders will be:	\$16,776,900.00
<i>Sixteen Million Seven Hundred Seventy-six Thousand Nine Hundred and 00/100 Dollars</i>	
The Contract Period provided for Substantial Completion will be UNCHANGED:	Zero (0) Days

This Document will become a Supplement to the Contract dated November 5, 2012, and all Provisions will apply hereto.

Requested By:		8/26/14
	Contractor: Gridor Construction, Inc.	Date
Recommended By:		8/28/14
	Engineer: McClure Engineering Co.	Date
Accepted By:	Owner: City of Fort Dodge, Iowa	Date
Approved by Funding Agency: (if applicable)		Date

**WASTEWATER SYSTEM IMPROVEMENTS 2011
PHASE D – WASTEWATER TREATMENT
SECTION 1: WATER POLLUTION CONTROL FACILITY EXPANSION
CONTRACTOR: GRIDOR CONSTRUCTION, INC.**

SUMMARY OF CHANGE ORDER #2

Potential Change Order #24: \$9,582.00

Contractor's cost associated with the addition of a 16" knife gate valve in the lower level of the South RAS Building allowing use of RAS pumps to pump to waste.

Potential Change Order #25: \$10,577.00

Contractor's cost associated with the addition of isolation valving to new South RAS Building WAS manhole to allow for work on manhole without plant equipment shutdown.

Potential Change Order #27: \$94,833.00

Contractor's over run costs associated with the acceptance of the HMA Paving Stipulated Contract Allowance Line Item (\$170,000.00) for Final Surfaces of Avenue O, Avenue B, and In-Plant Roads that is charged against the Project's Contingency Allowance.

Potential Change Order #28: \$1,009.00

Contractor's costs associated with modifications to planned Vacuum Truck Dumping Station to improve usability.

Potential Change Order #29: \$849.00

Contractor's costs associated with piping modifications to 6" DIP WAS piping in the lower level of the South RAS Building to improve accuracy of WAS flow meter.

Potential Change Order #30: -\$25,694.00

Contractor's credit offered for the removal of the geogrid stabilization specified to be installed under In-Plant paving and sub-base.

Potential Change Order #31: \$505.00

Contractor's costs associated with the addition of manhole PVC steps installed on Clarifier #4 from top of wall to effluent launder trough slab.

Potential Change Order #32 & #39: \$14,871.00

Contractor's over run costs associated with the acceptance of the Storm Water Return Flow Meter Stipulated Contract Allowance Line Item (\$50,000.00) that is charged against the Project's Contingency Allowance. Costs include PCO #32 for flow meter, piping, and manhole; PCO #39 for modifications to flow meter piping connection to existing piping when existing piping was found to be a different size than was to have been installed.

Potential Change Order #33, #35, #46, & #47A: \$15,682.00

Contractor's over run costs associated with the acceptance of the SE Entrance Access System & Septic Hauler Dumping Station Stipulated Contract Allowance Line Item (\$85,000.00) that is charged against the Project's Contingency Allowance. Costs include PCO #33 for septic hauler dump station unit; PCO #35 for a credit on conduit installation for moving gate operator from SE entrance gate to the main entrance gate; PCO #46A for modifications to entrance gate fencing to bring entrance gate off of road edge south into plant with addition of a man entrance gate; PCO #47A for security access system software & computer, programming, and wiring.

Potential Change Order #34: \$15,261.00

Contractor's costs associated with the addition of a electrical pull box and a 3" PVC conduit in concrete from Avenue O to the existing Administration Building for future data connection.

Potential Change Order #36: \$0.00

Contractor's costs associated with the modification of the stairs to Clarifier #4 to improve access, and removal of unneeded sidewalk around Clarifier #4 and the South RAS Building.

Potential Change Order #37: \$1,045.00

Contractor's cost associated with the addition of programming into the existing SCADA system to allow for tracking of generator run times for DNR reporting.

Potential Change Order #38: \$6,288.00

Contractor's cost associated with the installation of existing removed Dissolved Oxygen Probes from existing VLR #1 to VLR #3 passes #1 and #2 on local control only (not tied to SCADA system).

Potential Change Order #40: \$15,250.00

Contractor's costs associated with the Adjustment of As-built Quantities on Unit Bid Item for the cleaning of existing Digester #2.

Potential Change Order #41: \$-31,947.00

Contractor's offered credit on the Adjustment of As-Built Quantities on the Unit Bid Item for Below Grade Demo.

Potential Change Order #42: \$1,200.00

Contractor's cost associated with the raising of an existing fire hydrant on the southwest corner of the West Blower Building due to the change in grades from the FEMA flood map.

Potential Change Order #43: \$6,400.00

Contractor's cost associated with the addition of stilling wells to existing Digester #3 and #4 tanks for increased accuracy in measuring tank level.

Potential Change Order #44: \$1,057.00

Contractor's cost associated with the addition of saddle taps to the new heating supply / return lines that feed the new Sludge Mixing Building in the existing tunnel to allow for drainage of heating lines.

Potential Change Order #45: \$750.00

Contractor's costs associated with the addition of a intake casting and modification to an existing storm water intake located at the southwest corner of the existing Maintenance Building needed due to changes to In-Plant paving plan.

PROJECT CONTINGENCY ALLOWANCE	\$400,000.00
CHANGE ORDERS	
- Change Order #01	(\$52,248.00)
- Change Order #02	(\$137,518.00)
CONTINGENCY ALLOWANCE REMAINING	\$210,234.00