

**August 5, 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  
Statement of Substantial Completion #2 – Gridor Construction**



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**ACTION: For vote Monday, August 11, 2014**

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**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.

### **Analysis of Issue**

The Contractor, Gridor Construction, has completed the work specified in the contract documents. McClure Engineering has submitted the Statement of Completion #2 for your review and approval.

### **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.

**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 accept the Statement of Substantial Completion #2.

**Alternatives**

No practical alternatives are suggested.

**Implementation and Accountability**

The Engineering Department will be responsible for overseeing this project.

Signed



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Chad W. Schaeffer, P.E.  
City Engineer

Approved

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David R. Fierke  
City Manager

# STATEMENT OF SUBSTANTIAL COMPLETION

DATE: June 20, 2014

TO: City of Fort Dodge  
819 1<sup>st</sup> Avenue South  
Fort Dodge, Iowa 50501

PROJECT: Wastewater System Improvements 2011, Fort Dodge, Iowa  
**Phase D: Wastewater Treatment, Section 1: Water Pollution Control Facility Expansion**  
SRF Project No. 1920645 01; MEC 1311016-04

CONTRACTOR: Gridor Construction, Inc., 3990 27th Street SE, Buffalo, MN 55313

I, the undersigned ENGINEER hereby state that the construction of the PROJECT or a specified part thereof is sufficiently completed, in accordance with the CONTRACT DOCUMENTS, so that the PROJECT or specified part can be utilized for the purposes for which it is intended. A prefinal inspection of the WORK has been made by the ENGINEER and OWNER and other appropriate parties.

Acceptance of this statement by the CONTRACTOR constitutes concurrence of the CONTRACTOR for the OWNER to use any completed or substantially completed portions of the WORK but shall not constitute OWNER acceptance of such portions of the WORK.

WORK specified as sufficiently completed and can be utilized for the purposes for which it is intended:

New Digester #2 Sludge Mixing Building, existing Digester #2 modifications, new Digester #6, and the existing Sludge Lagoon modifications (including existing East 2 Sludge Lagoons grading / combination, and new Decant Structures for East and West Lagoons).

Items of noncompliance with the contract are:

Punch List Items:

1. See attached punch list.

Issuance of this statement does not release the CONTRACTOR of the obligation of completing the unfinished portions of the WORK or contract requirements in relationship to completion time, liquidated damages or unsettled claims against the project.

The CONTRACTOR shall guarantee all materials and equipment furnished, and construction performed by providing a PERFORMANCE BOND which shall remain in full force and effect for a period of two (2) year(s) from date of OWNER approval of the Statement of Substantial Completion.

This statement is made to the best of my knowledge, information and belief.

Acceptance by CONTRACTOR:  
Gridor Construction, Inc.  
Buffalo, MN

By: JH Dreisen

Title: PRES.

Date: 7/17/14

OWNER Approval of Issuance:  
City of Fort Dodge, Iowa

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

Title: \_\_\_\_\_

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

Acceptance by ENGINEER:  
McClure Engineering Company  
Fort Dodge, Iowa

By: Matthew Nephel

Title: Project Manager

Date: 7/11/14

# PUNCH LIST

Project : Water System Improvements 2011, Phase D - Wastewater Treatment

Section 1 - Water Pollution Control Facility Expansion

Project # : FTD 1311016-04

Date Generated: 09/10/2013

Owner : City of Fort Dodge

Date of Last Update: 07/31/2014

Contractor: Gridor Construction

Status Legend

- A Complete, Approved by Engineer
- V Complete, Engineer to Verify
- NC Not Complete
- ? Question / Not Sure

ITEM #	DATE ADDED	ADDED BY	DESCRIPTION	STATUS	COMMENTS	DATE APPROVED	APPROVED BY
1	12/09/13	MEC (West Blower)	Verify all controls working properly with new system in West Blower Building.	V	Address all outstanding Siemens and Automatic Systems programming items.		
2	12/09/13	MEC (West Blower)	Final clean after construction of West Blower Building.	NC	Complete a final sweep out, wipe down of all equipment, clean electrical equipment filters in areas of construction. - BLOWER ROOM COMPLETED.		
3	07/07/14	MEC (West Blower)	Replace burnt out light on VFD's in new electrical room.	NC			
4	05/28/14	KEC (West Blower)	Remove nameplate with lettering "PPS 1" on packaged power supply and provide nameplate with lettering "VLR 1 PPS".	NC			
5	06/18/14	KEC (West Blower)	Seal conduits connected to North Dewatering Pump disconnect switch and South Dewatering Pump disconnect switch watertight with duct seal as per 3.2 B.17. of Section 16100D1.	NC			
6	12/09/13	MEC (East Blower)	Verify all controls working properly with new system in East Blower Building.	V	Address all outstanding Siemens and Automatic Systems programming items.		
7	12/09/13	MEC (East Blower)	Final clean after construction of East Blower Building.	NC	Complete a final sweep out, wipe down of all equipment, clean electrical equipment filters in areas of construction.		
8	07/07/14	MEC (East Blower)	Replace burnt out light on VFD's in new electrical room.	NC			
9	06/18/14	KEC (East Blower)	Clean metal shavings from VLR 2 Nitrate Recirculation Pump junction box.	NC			
10	06/18/14	KEC (East Blower)	Tag power conductors in VLR 2 Nitrate Recirculation Pump junction box as per 3.3 H. of Section 16100D1.	NC			
11	03/24/14	MEC (UV Bldg.)	Final clean after construction in UV Building.	NC	Complete a final wipe down of all equipment, clean electrical equipment filters.		
12	12/09/13	MEC (South RAS / Clarifier)	Final clean after construction of South RAS Building.	NC	Complete a final sweep out, wipe down of all equipment, clean SF/EF filters, clean electrical equipment filters in areas of construction.		
13	07/07/14	MEC (South RAS / Clarifier)	Replace burnt out light on VFD's / MCC in electrical room.	NC			
14	07/18/14	MEC (South RAS / Clarifier)	Investigate and repair EF-6 / SF-1 motor starter trip out.	NC	Motor starter keeps tripping out and having to be manually reset. Premier is aware of this and working on a solution.		
15	12/09/13	MEC (South Blower)	Final clean after construction of South Blower Building.	NC	Complete a final sweep out, wipe down of all equipment, clean SF/EF filters, clean lower filters, clean electrical equipment filters in areas of construction.		
16	03/24/14	MEC (South Blower)	Repair / replace concrete walkway between VLR #3 and the South Blower Building.	V	This item is believed to be complete, will monitor.		
17	06/16/14	MEC (South Blower)	Verify all controls working properly with new system in South Blower Building.	V	Address all outstanding Siemens and Automatic Systems programming items.		
18	07/07/14	MEC (South Blower)	Replace burnt out light on VFD's / MCC in electrical room.	NC			

19	07/18/14	USW (South Blower)	Blower #11 doesn't read amps on the trip panel. This may not be wired up correctly. The blower can't be run until this protection is working. There actually wires not landed in both trip panels for both Blower #11 and #12.	NC		
20	07/18/14	USW (South Blower)	The SMC's for Blowers #11 and #12 keep faulting out.	NC		
21	05/20/14	USW (VLR#3)	Repair / replace aerator covers that are leaking sludge through hatch gaskets.	NC		
22	03/24/14	MEC (Digester #6)	Complete electrical on Digester #6.	V	Address all outstanding Quality Flow and Automatic Systems programming items.	
23	03/24/14	MEC (Sludge Mix Bldg.)	Complete electrical installation in the Sludge Mixing Building.	V	Address all outstanding Fluidyne and Automatic Systems programming items.	
24	07/07/14	MEC (Sludge Mix Bldg.)	Complete start-up of gas detection system in the Sludge Mixing Building.	NC		
25	07/07/14	MEC (Sludge Mix Bldg.)	Final clean after construction of Sludge Mixing Building.	NC	Complete a final sweep out, wipe down of all equipment, clean SF/EF filters, clean louver filters, clean electrical equipment filters in areas of construction.	
26	07/31/14	MEC (Sludge Mix Bldg.)	Paint Sludge Mixing Building heating water line piping proper color in the Valve Room.	NC	Piping around the 3-way mixing valve was painted brown instead of red per specification section 09900.3.6.	
27	07/31/14	MEC (Sludge Mix Bldg.)	Investigate and repair Sludge Mixing Building valve room EF-2 motor trip out.	NC		
28	06/18/14	KEC (Sludge Mix Bldg.)	Tag power conductors in EF-1 disconnect switch, Digester 2 Mixing Control Panel and Digester 2 SCADA Panel as per 3.3 H. of Section 16100D1.	NC		
29	06/18/14	KEC (Sludge Mix Bldg.)	Install missing screw in north gutter cover of Distribution Panel 7.	NC		
30	07/17/14	USW (Admin Bldg.)	The East Boiler keeps getting a fault 14 alarm, and the West Boiler keeps getting a fault 19 alarm. These need to be investigated / checked out.	NC		
31	05/16/14	MEC (Site General)	Complete a test of tracer wire system on installed new potable water piping.	NC		
32	05/16/14	MEC (Site General)	Complete site grading and install seeding and erosion control measures.	NC	Site grading mostly completed.	
33	05/16/14	MEC (Site General)	Install Septic Hauler Dump Station and electrical per approved PCO #33.	NC	Complete electrical / programming to SCADA.	
34	05/16/14	MEC (Site General)	Complete Main Gate Modifications and electrical per approved PCO #35.	NC	In Progress.	
35	05/16/14	MEC (Site General)	Install new cantilever gate at the SE corner of site.	NC	In Progress.	
36	05/16/14	MEC (Site General)	Install site perimeter fencing.	NC	In Progress.	
37	05/16/14	MEC (Site General)	Complete improvements to Avenue O and Avenue B.	NC	Install HMA paving per PCO #27. Roads have been sub-graded, and paving scheduled for the week of 8/4/14.	
38	07/18/14	MEC (Site General)	Complete pipe painting, and electrical / programming to SCADA on the Stormwater Return Meter Manhole.	NC		
39	07/31/14	MEC (Site General)	Complete site touch-up painting as necessary.	V		