



# City of Grand Island

Tuesday, June 11, 2019

Council Session

## Item G-10

**#2019-190 - Approving Certificate of Final Completion for  
Sanitary Sewer Manhole Flow Monitoring/ Rehabilitation; Project  
No. 2018-WWTP-2**

Staff Contact: John Collins, P.E. - Public Works Director

# **Council Agenda Memo**

**From:** Jon Menough PE, Wastewater Plant Engineer

**Meeting:** June 11, 2019

**Subject:** Approving Certificate of Final Completion for Sanitary Sewer Manhole Flow Monitoring/ Rehabilitation; Project No. 2018-WWTP-2

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

## **Background**

The Diamond Engineering Company of Grand Island, Nebraska was awarded a \$205,966.99 contract on May 22, 2018, via Resolution No. 2018-145, for Sanitary Sewer Manhole Flow Monitoring / Rehabilitation; Project No. 2018-WWTP-2.

On June 26, 2018, via Resolution No. 2018-187, City Council approved Change Order No. 1 for such project to allow for installation of an additional flow meter, which will capture South Interceptor Sewer Shed 3. Change Order No. 1 resulted in an increase of \$29,488.62 to the original contract, for a revised total amount of \$235,455.61.

On September 25, 2018, via Resolution No. 2018-282, City Council approved Change Order No. 2 for such project to allow additional time for completion. There was no effect to the contract amount of \$235,455.61.

On November 20, 2018, via Resolution No. 2018-348, City Council approved Change Order No. 3, which allowed for compensation to the contractor due to two (2) of the three (3) manholes being rehabilitated were five (5) foot in diameter and not the originally bid four (4) foot diameter. Change Order No. 3 increased the contract amount by \$3,050.00, resulting in a revised amount of \$238,505.61.

The project had two (2) main components. 1) Installation of flowmeters at six (6) critical points along the South Interceptor. These flowmeters will help staff evaluate flow conditions and capacity with in the South Interceptor and aid in decision making and planning. Information is sent wirelessly and can be monitored in real time. 2) Manhole rehabilitation was the second component to the project. Three (3) of the six (6) South Interceptor manholes required structural rehab in order for permanent flowmeters to be bolted successfully into place. The sanitary sewer manhole rehab will eliminate infiltration and provide protection from hydrogen sulfide gas and corrosion.

## **Discussion**

The project was completed in accordance with the terms, conditions, and stipulations of the contract, plans and specifications. Construction was completed on budget, for a total cost of \$238,486.71. Additional project costs are shown below.

### ***ADDITIONAL COSTS***

The Grand Island Independent	Advertising	\$ 121.83
City of Grand Island Public Works	Engineering Services	\$ 891.10
McMaster-Carr	Supplies	\$ 1,248.14
Kelly Supply	Supplies	\$ 2,348.42
JMBorer Companies	Post Powder Coating	\$ 720.00
Justin Meader	Flow Meters & ISCO Cellular Modems	\$ 12,083.00
<b>Additional Costs =</b>		<b>\$ 17,412.49</b>

The flow meters and ISCO cellular modems are an Operation and Maintenance cost that would've been necessary regardless of this project.

## **Alternatives**

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

1. Move to approve a resolution authorizing the Certificate of Final Completion.
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 the Certificate of Final Completion for Sanitary Sewer Manhole Flow Monitoring / Rehabilitation; Project No. 2018-WWTP-2.

## **Sample Motion**

Motion to approve the Certificate of Final Completion for Sanitary Sewer Manhole Flow Monitoring / Rehabilitation; Project No. 2018-WWTP-2.

## ENGINEER'S CERTIFICATE OF FINAL COMPLETION

Sanitary Sewer Manhole Flow Monitoring/ Rehabilitation; Project No. 2018-WWTP-2  
CITY OF GRAND ISLAND, NEBRASKA  
June 11, 2019

TO THE MEMBERS OF THE COUNCIL  
CITY OF GRAND ISLAND  
GRAND ISLAND, NEBRASKA

This is to certify that Sanitary Sewer Manhole Flow Monitoring/ Rehabilitation; Project No. 2018-WWTP-2 has been fully completed by The Diamond Engineering Company of Grand Island, Nebraska under the contract dated May 31, 2018. The work has been completed in accordance with the terms, conditions, and stipulations of said contract and complies with the contract, the plans and specifications. The work is hereby accepted for the City of Grand Island, Nebraska, by me as Public Works Director in accordance with the provisions of Section 16-650 R.R.S., 1943.

### Base Bid-

Item No.	Description	Total Quantity	Unit	Unit Price	Total Cost
1	Mobilization/ Demobilization	1.54	LS	\$ 2,515.28	\$ 3,873.54
2	Remove Step	19.00	EA	\$ 18.90	\$ 359.10
3	4' Diameter Manhole Rehab via Cementitious Lining & Epoxy	3.00	EA	\$ 10,269.73	\$ 30,809.19
4	Remove & Replace Pavement	56.70	SY	\$ 106.58	\$ 6,043.09
5	Standard Concrete Header for a Dirt Return	25.00	LF	\$ 115.73	\$ 2,893.25
6	Temporary Traffic Control	1.00	EA	\$ 7,868.25	\$ 7,868.25
7	Remove & Replace Manhole Inside Drop Piping	4.00	EA	\$ 3,391.37	\$ 13,565.48
8	Flow Monitoring System	6.00	EA	\$ 28,037.49	\$ 168,224.94
9	2" Rigid Conduit	163.00	LF	\$ 3.44	\$ 560.72
10	Install Protective Post- Plan EU-9	2.00	EA	\$ 619.58	\$ 1,239.16
Total Base Bid Section =					\$235,436.71

### Change Order No. 3-

Item No.	Description	Total Quantity	Unit	Unit Price	Total Cost
11	5' Diameter Manhole Rehab via Cementitious Lining & Epoxy	2.00	EA	\$ 1,525.00	\$ 3,050.00
Total Change Order No. 3 =					\$ 3,050.00

**Total Construction Costs= \$238,486.71**

**Additional Costs:**

The Grand Island Independent	Advertising	\$ 121.83
City of Grand Island Public Works	Engineering Services	\$ 891.10
McMaster-Carr	Supplies	\$ 1,248.14
Kelly Supply	Supplies	\$ 2,348.42
JMBorer Companies	Post Powder Coating	\$ 720.00
Justin Meader	Flow Meters & ISCO Cellular Modems	\$ 12,083.00

**Additional Costs = \$ 17,412.49**

<b>Grand Total =</b>	<b>\$255,899.20</b>
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I hereby recommend that the Engineer's Certificate of Final Completion for Sanitary Sewer Manhole Flow Monitoring/ Rehabilitation; Project No. 2018-WWTP-2 be approved.

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John Collins – City Engineer/Public Works Director

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Roger G. Steele – Mayor

## RESOLUTION 2019-190

WHEREAS, the City Engineer/Public Works Director issued a Certificate of Final Completion for Sanitary Sewer Manhole Flow Monitoring / Rehabilitation; Project No. 2018-WWTP-2 certifying that The Diamond Engineering Company of Grand Island, Nebraska, under contract, has completed such project for the total construction amount of \$238,486.71; and

WHEREAS, the City Engineer/Public Works Director recommends the acceptance of the project; and

WHEREAS, additional project costs equate to \$17,412.49, as shown

**Additional Costs:**

The Grand Island Independent	Advertising	\$ 121.83
City of Grand Island Public Works	Engineering Services	\$ 891.10
McMaster-Carr	Supplies	\$ 1,248.14
Kelly Supply	Supplies	\$ 2,348.42
JMBorer Companies	Post Powder Coating	\$ 720.00
Justin Meader	Flow Meters & ISCO Cellular Modems	\$ 12,083.00

**Additional Costs = \$ 17,412.49**

WHEREAS, the Mayor concurs with the recommendation of the City Engineer/Public Works Director; and

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the Certificate of Final Completion for the Sanitary Sewer Manhole Flow Monitoring / Rehabilitation; Project No. 2018-WWTP-2 is hereby confirmed for the total amount of \$255,899.20.

Adopted by the City Council of the City of Grand Island, Nebraska, June 11, 2019.

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Roger G. Steele, Mayor

Attest:

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Aaron Schmid, City Clerk Pro Tem

Approved as to Form	☐ _____
May 9, 2017	☐ City Attorney